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Laboratory Code: 11148

SDG Number: L2434679

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Table of Contents

New York ASP Category B Data Deliverable Package 1
- Table of Contents 2
- Sample ID Cross Reference 16
- SDG Narrative 17
- Data Qualifier Definitions 20
- Instrument Information 23
- Sample Log-in Sheet 26
- Lims COC (LN01) 28
- External Chain of Custody 33
- Organics Analysis 35
  - GCMS 8260 Analysis 36
    - Volatiles QC Summary 37
      - Form 2 - Organics 38
      - Form 3 - Organics 39
      - Form 4 - Organics 46
      - Form 5 - Organics 48
      - Form 8 - Organics 52
      - MDL Study - Volatile Organics 8260 54
      - 8260 54
      - 8260HLW 56
    - Volatiles Sample Data 58
      - Form 1 - Organics 59
      - EB (L2434679-12) Analyzed: 06/23/24 17:56 107
      - TB (L2434679-13) Analyzed: 06/23/24 18:19 114
      - MW-3A (L2434679-01) Analyzed: 06/23/24 18:42 121
      - MW-6A (L2434679-02) Analyzed: 06/23/24 19:05 127
      - MW-6B (L2434679-03) Analyzed: 06/23/24 19:28 133
      - MW-6C (L2434679-04) Analyzed: 06/23/24 19:51 139
      - MW-7A (L2434679-05) Analyzed: 06/23/24 20:14 146
      - MW-7B (L2434679-06) Analyzed: 06/23/24 20:37 152
      - MW-7C (L2434679-07) Analyzed: 06/23/24 20:59 158
      - MW-8A (L2434679-08) Analyzed: 06/24/24 10:50 164
      - MW-8B (L2434679-09) Analyzed: 06/24/24 11:14 168
      - MW-9B (L2434679-10) Analyzed: 06/24/24 11:38 172
      - DUP (L2434679-11) Analyzed: 06/24/24 12:02 176
      - MW-8B2 (L2434679-14) Analyzed: 06/24/24 12:26 180
    - Volatile Standards Data 185
      - Initial Calibration 186
        - Form 6 - Organics 187
        - ICAL for GONZO on 05/10/24 ICAL21111 193
        - Initial Calibration Summary - Cal Date: 05/10/24 00:00 193
        - BFB TUNE Injected on: 05/09/24 16:44 197
        - STD0.19PPB Injected on: 05/09/24 17:50 198
        - STD0.5PPB Injected on: 05/09/24 18:37 201
        - STD2PPB Injected on: 05/09/24 19:25 207
        - STD10PPB Injected on: 05/09/24 19:49 215
        - STD30PPB Injected on: 05/09/24 20:13 221
        - STD80PPB Injected on: 05/09/24 20:37 228
        - STD120PPB Injected on: 05/09/24 21:01 234
        - STD200PPB Injected on: 05/09/24 21:24 241

Table of Contents

ICV Summary Form Injected on: 05/09/24 23:24 247
ICV Quant Report Injected on: 05/09/24 23:24 250
Correlation Data Summary 257
ICAL for VOA108 on 05/15/24 ICAL21127 258
Initial Calibration Summary - Cal Date: 05/15/24 00:00 258
BFB TUNE Injected on: 05/14/24 18:32 262
STD0.19PPB Injected on: 05/14/24 19:49 263
STD0.5PPB Injected on: 05/14/24 20:34 266
STD2PPB Injected on: 05/14/24 21:18 274
STD10PPB Injected on: 05/14/24 22:03 281
STD30PPB Injected on: 05/14/24 22:26 288
STD80PPB Injected on: 05/14/24 22:48 296
STD120PPB Injected on: 05/14/24 23:10 304
STD200PPB Injected on: 05/14/24 23:33 311
ICV Summary Form Injected on: 05/15/24 01:24 319
ICV Quant Report Injected on: 05/15/24 01:24 322
Continuing Calibration 329
Form 7 - Organics 330
CC Summary - VOA108 Run: 06/23/24 11:28 335
CC Quant - WG1938519-2 VOA108 Run: 06/23/24 11:28 337
CC Summary - GONZO Run: 06/24/24 08:02 341
CC Quant - WG1938990-2 GONZO Run: 06/24/24 08:02 344
bfb tune - Inst. VOA108 06/23/24 11:15 351
bfb tune - Inst. GONZO 06/24/24 07:47 352
Volatiles Raw QC Data 353
Laboratory Method Bl (WG1938519-5) Analyzed: 06/23/24 13:21 354
Laboratory Method Bl (WG1938990-5) Analyzed: 06/24/24 09:37 360
Laboratory Control S (WG1938990-3) Analyzed: 06/24/24 08:02 365
Laboratory Control S (WG1938519-3) Analyzed: 06/23/24 11:28 420
LCS Duplicate (WG1938990-4) Analyzed: 06/24/24 08:25 476
LCS Duplicate (WG1938519-4) Analyzed: 06/23/24 11:50 531
Matrix Spike (WG1938519-6) Analyzed: 06/23/24 21:22 587
Matrix Spike Duplica (WG1938519-7) Analyzed: 06/23/24 21:45 643
Volatiles Calculations 699
QC Batch WG1938519 700
QC Batch WG1938990 701
ICAL Sequence for GONZO on 10-MAY-2024 00:00 ICAL21111 702
ICAL Sequence for VOA108 on 15-MAY-2024 00:00 ICAL21127 703
Instrument VOA108 Run Date 06/23/24 Run ID R1844853 704
Instrument GONZO Run Date 06/24/24 Run ID R1845327 705
Semivolatiles Data - Method 8270 706
Semivolatiles QC Summary 707
Form 3 - Organics 708
Form 2 - Organics 715
Form 4 - Organics 716
Form 5 - Organics 718
Form 8 - Organics 722
MDL Study - ABN Extractables 726
Semivolatiles Sample Data 730
Form 1 - Organics 731

Table of Contents

MW-6B (L2434679-03) Analyzed: 06/24/24 19:59 776
MW-6C (L2434679-04) Analyzed: 06/24/24 20:22 781
MW-7A (L2434679-05) Analyzed: 06/24/24 20:44 786
MW-7B (L2434679-06) Analyzed: 06/24/24 21:06 791
MW-7C (L2434679-07) Analyzed: 06/24/24 21:29 796
MW-8A (L2434679-08) Analyzed: 06/24/24 21:51 801
MW-8B (L2434679-09) Analyzed: 06/24/24 22:14 806
DUP (L2434679-11) Analyzed: 06/24/24 22:37 811
EB (L2434679-12) Analyzed: 06/24/24 22:59 816
MW-8B2 (L2434679-14) Analyzed: 06/24/24 23:22 821
MW-6A (L2434679-02) Analyzed: 06/24/24 23:45 826
MW-3A (L2434679-01) Analyzed: 06/25/24 12:12 831
MW-9B (L2434679-10) Analyzed: 06/25/24 12:35 836
Semivolatiles Standards Data 841
Initial Calibration 842
Form 6 - Organics 843
ICAL for DAKOTA on 06/19/24 ICAL21225 847
Initial Calibration Summary - Cal Date: 06/19/24 00:00 847
Tune Injected on: 06/18/24 11:59 850
Deg Injected on: 06/18/24 11:59 851
Tailing Factor Injected on: 06/18/24 11:59 852
ABNL9 Injected on: 06/18/24 12:22 854
ABNL8 Injected on: 06/18/24 12:45 862
ABNL7 Injected on: 06/18/24 13:07 867
ABNL6 Injected on: 06/18/24 13:30 872
ABNL5 Injected on: 06/18/24 13:52 877
ABNL4 Injected on: 06/18/24 14:15 882
ABNL3 Injected on: 06/18/24 14:38 887
ABNL2 Injected on: 06/18/24 15:00 894
ABNL1 Injected on: 06/18/24 15:23 906
AP9L9 Injected on: 06/18/24 15:46 918
AP9L8 Injected on: 06/18/24 16:08 921
AP9L7 Injected on: 06/18/24 16:31 924
AP9L6 Injected on: 06/18/24 16:54 927
AP9L5 Injected on: 06/18/24 17:16 930
AP9L4 Injected on: 06/18/24 17:39 933
AP9L3 Injected on: 06/18/24 18:02 936
AP9L2 Injected on: 06/18/24 18:24 939
AP9L1 Injected on: 06/18/24 18:47 942
ABN ICV Summary Form Injected on: 06/18/24 19:10 947
ABN ICV Quant Report Injected on: 06/18/24 19:10 950
Tune Injected on: 06/18/24 20:19 1032
Deg Injected on: 06/18/24 20:19 1033
Tailing Factor Injected on: 06/18/24 20:19 1034
AP9 ICV Summary Form Injected on: 06/18/24 20:41 1036
AP9 ICV Quant Report Injected on: 06/18/24 20:41 1037
ADPL9 Injected on: 06/18/24 21:04 1054
ADPL8 Injected on: 06/18/24 21:26 1057
ADPL7 Injected on: 06/18/24 21:49 1060
ADPL6 Injected on: 06/18/24 22:11 1063

Table of Contents

ADPL5 Injected on: 06/18/24 22:34 1066
ADPL4 Injected on: 06/18/24 22:56 1069
ADPL3 Injected on: 06/18/24 23:19 1072
ADPL2 Injected on: 06/18/24 23:41 1075
ADPL1 Injected on: 06/19/24 00:04 1078
ADP ICV Summary Form Injected on: 06/19/24 00:26 1081
ADP ICV Quant Report Injected on: 06/19/24 00:26 1082
Relative Error 1091
Continuing Calibration 1092
Form 7 - Organics 1093
CC Summary - DAKOTA Run: 06/24/24 14:00 1103
CC Quant - WG1938645-3 DAKOTA Run: 06/24/24 14:00 1106
CC Summary - DAKOTA Run: 06/24/24 14:22 1188
CC Quant - WG1938645-4 DAKOTA Run: 06/24/24 14:22 1189
CC Summary - DAKOTA Run: 06/24/24 14:45 1206
CC Quant - WG1938645-5 DAKOTA Run: 06/24/24 14:45 1207
DEG Quant for DAKOTA injected on 06/24/24 13:38 1216
dftpp tune - Inst. DAKOTA 06/24/24 13:38 1217
Tailing factor report for DAKOTA injected on 06/24/24 13:38 1218
Form 7 - Organics 1220
CC Summary - DAKOTA Run: 06/25/24 07:19 1230
CC Quant - WG1938967-3 DAKOTA Run: 06/25/24 07:19 1233
CC Summary - DAKOTA Run: 06/25/24 07:42 1317
CC Quant - WG1938967-4 DAKOTA Run: 06/25/24 07:42 1318
CC Summary - DAKOTA Run: 06/25/24 08:05 1335
CC Quant - WG1938967-5 DAKOTA Run: 06/25/24 08:05 1336
DEG Quant for DAKOTA injected on 06/25/24 06:57 1345
dftpp tune - Inst. DAKOTA 06/25/24 06:57 1346
Tailing factor report for DAKOTA injected on 06/25/24 06:57 1347
Semivolatiles Raw QC Summary 1349
Laboratory Method Bl (WG1938279-1) Analyzed: 06/24/24 16:37 1350
Laboratory Method Bl (WG1938723-1) Analyzed: 06/25/24 10:18 1355
Laboratory Control S (WG1938279-2) Analyzed: 06/24/24 17:00 1360
Laboratory Control S (WG1938723-2) Analyzed: 06/25/24 10:40 1410
LCS Duplicate (WG1938279-3) Analyzed: 06/24/24 17:22 1460
LCS Duplicate (WG1938723-3) Analyzed: 06/25/24 11:03 1510
Matrix Spike (WG1938279-4) Analyzed: 06/24/24 19:14 1560
Matrix Spike Duplica (WG1938279-5) Analyzed: 06/24/24 19:37 1610
Semivolatiles Calculations 1660
QC Batch WG1938279 1661
QC Batch WG1938723 1662
ICAL Sequence for DAKOTA on 19-JUN-2024 00:00 ICAL21225 1663
Instrument DAKOTA Run Date 06/24/24 Run ID R1845016 1664
DaySequence 1664
Instrument DAKOTA Run Date 06/25/24 Run ID R1845298 1665
DaySequence 1665
Organic ELN-Workgroup:WG1938723 1666
Organic ELN-Workgroup:WG1938279 1667
Semivolatiles Data - Method 8270D-SIM 1670
Semivolatiles QC Summary 1671

Table of Contents

Form 2 - Organics 1672
Form 3 - Organics 1673
Form 4 - Organics 1676
Form 5 - Organics 1678
Form 8 - Organics 1682
MDL Study - 8270 Low Level PAH 1686
Semivolatiles Sample Data 1688
Form 1 - Organics 1689
MW-6B (L2434679-03) Analyzed: 06/24/24 12:51 1704
MW-6A (L2434679-02) Analyzed: 06/24/24 13:41 1722
MW-6C (L2434679-04) Analyzed: 06/24/24 13:58 1731
MW-7A (L2434679-05) Analyzed: 06/24/24 14:14 1744
MW-7B (L2434679-06) Analyzed: 06/24/24 14:31 1761
MW-7C (L2434679-07) Analyzed: 06/24/24 14:48 1787
MW-8A (L2434679-08) Analyzed: 06/24/24 15:04 1812
MW-8B (L2434679-09) Analyzed: 06/24/24 15:21 1819
DUP (L2434679-11) Analyzed: 06/24/24 15:38 1828
EB (L2434679-12) Analyzed: 06/24/24 15:54 1832
MW-8B2 (L2434679-14) Analyzed: 06/24/24 16:11 1839
MW-3A (L2434679-01) Analyzed: 06/25/24 11:53 1846
MW-9B (L2434679-10) Analyzed: 06/25/24 12:10 1853
Semivolatiles Standards Data 1858
Initial Calibration 1859
Form 6 - Organics 1860
ICAL for SV128 on 12/15/23 ICAL20676 1862
Initial Calibration Summary - Cal Date: 12/15/23 00:00 1862
Injected on: 12/11/23 13:03 1863
Degradation Injected on: 12/11/23 13:03 1864
Tailing Factor Injected on: 12/11/23 13:03 1865
IL10 Injected on: 12/11/23 13:27 1867
IL9 Injected on: 12/11/23 13:44 1878
IL8 Injected on: 12/11/23 14:00 1885
IL7 Injected on: 12/11/23 14:17 1892
IL6 Injected on: 12/11/23 14:33 1909
IL5 Injected on: 12/11/23 14:50 1920
IL4 Injected on: 12/11/23 15:06 1937
IL3 Injected on: 12/11/23 15:23 1955
IL2 Injected on: 12/11/23 15:40 1973
Injected on: 12/13/23 06:43 1996
Degradation A Injected on: 12/13/23 06:43 1997
Tailing Factor A Injected on: 12/13/23 06:43 1998
IL1a Injected on: 12/13/23 07:14 2000
ICV Summary Form Injected on: 12/13/23 07:30 2004
ICV Quant Report Injected on: 12/13/23 07:30 2006
Relative Error Summary 2040
Continuing Calibration 2041
Form 7 - Organics 2042
CC Summary - SV128 Run: 06/24/24 11:21 2044
CC Quant - WG1938533-3 SV128 Run: 06/24/24 11:21 2046
DEG Quant for SV128 injected on 06/24/24 11:04 2082

Table of Contents

dftpp tune - Inst. SV128 06/24/24 11:04 2083
Tailing factor report for SV128 injected on 06/24/24 11:04 2084
Form 7 - Organics 2086
CC Summary - SV128 Run: 06/25/24 10:01 2088
CC Quant - WG1939038-3 SV128 Run: 06/25/24 10:01 2090
DEG Quant for SV128 injected on 06/25/24 09:43 2128
dftpp tune - Inst. SV128 06/25/24 09:43 2129
Tailing factor report for SV128 injected on 06/25/24 09:43 2130
Semivolatiles Raw QC Summary 2132
Laboratory Method Bl (WG1938280-1) Analyzed: 06/24/24 12:02 2133
Laboratory Method Bl (WG1938725-1) Analyzed: 06/25/24 10:45 2161
Laboratory Control S (WG1938280-2) Analyzed: 06/24/24 12:18 2176
Laboratory Control S (WG1938725-2) Analyzed: 06/25/24 11:02 2203
LCS Duplicate (WG1938280-3) Analyzed: 06/24/24 12:35 2229
LCS Duplicate (WG1938725-3) Analyzed: 06/25/24 11:19 2256
Matrix Spike (WG1938280-4) Analyzed: 06/24/24 13:08 2282
Matrix Spike Duplica (WG1938280-5) Analyzed: 06/24/24 13:25 2309
Semivolatiles Calculations 2337
QC Batch WG1938280 2338
QC Batch WG1938725 2339
ICAL Sequence for SV128 on 15-DEC-2023 00:00 ICAL20676 2340
Instrument SV128 Run Date 06/24/24 Run ID R1844890 2341
DaySequence 2341
Instrument SV128 Run Date 06/25/24 Run ID R1845428 2342
DaySequence 2342
Organic ELN-Workgroup:WG1938725 2343
Organic ELN-Workgroup:WG1938280 2344
GC Herbicide Analysis 2347
Semivolatiles QC Summary 2348
Form 2 - Organics 2349
Form 3 - Organics 2350
Form 4 - Organics 2352
Form 8 - Organics 2353
MDL Study - Herbicides 2355
HERB-8151 2355
Herbicides Sample Data 2357
Form 1 - Organics 2358
MW-6B (L2434679-03) Analyzed: 06/24/24 21:43 2372
MW-3A (L2434679-01) Analyzed: 06/24/24 23:14 2377
MW-6A (L2434679-02) Analyzed: 06/24/24 23:32 2383
MW-6C (L2434679-04) Analyzed: 06/25/24 00:09 2389
MW-7A (L2434679-05) Analyzed: 06/25/24 00:27 2395
MW-7B (L2434679-06) Analyzed: 06/25/24 00:45 2401
MW-7C (L2434679-07) Analyzed: 06/25/24 01:04 2407
MW-8A (L2434679-08) Analyzed: 06/25/24 01:22 2413
MW-8B (L2434679-09) Analyzed: 06/25/24 01:40 2419
MW-9B (L2434679-10) Analyzed: 06/25/24 01:58 2425
DUP (L2434679-11) Analyzed: 06/25/24 02:16 2430
EB (L2434679-12) Analyzed: 06/25/24 02:35 2436
MW-8B2 (L2434679-14) Analyzed: 06/25/24 02:53 2441

Table of Contents

Herbicides Standards Data 2446
Initial Calibration 2447
Form 6 - Organics 2448
ICAL for PEST22 on 04/12/24 ICAL21040 2452
Initial Calibration Summary - Cal Date: 04/12/24 00:00 2452
Herbicides L1 Injected on: 04/12/24 06:35 2454
Herbicides L2 Injected on: 04/12/24 06:54 2481
Herbicides L3 Injected on: 04/12/24 07:12 2506
Herbicides L4 Injected on: 04/12/24 07:31 2525
Herbicides L5 Injected on: 04/12/24 07:49 2546
Herbicides L6 Injected on: 04/12/24 08:08 2571
Initial Calibration Verification 2594
ICV Summary Form Injected on: 04/12/24 08:26 2595
ICV Quant Report Injected on: 04/12/24 08:26 2597
ICAL for PEST16 on 05/23/24 ICAL21173 2620
Initial Calibration Summary - Cal Date: 05/23/24 00:00 2620
Herbicides L1 Injected on: 05/21/24 18:01 2622
Herbicides L2 Injected on: 05/21/24 18:20 2649
Herbicides L3 Injected on: 05/21/24 18:38 2675
Herbicides L4 Injected on: 05/21/24 18:57 2701
Herbicides L5 Injected on: 05/21/24 19:15 2725
Herbicides L6 Injected on: 05/21/24 19:34 2752
Initial Calibration Verification 2779
ICV Summary Form Injected on: 05/21/24 19:53 2780
ICV Quant Report Injected on: 05/21/24 19:53 2782
Correlation Data Summary 2809
Continuing Calibration 2810
Form 7 - Organics 2811
CC Summary - PEST22 Run: 06/24/24 16:07 2817
CC Quant - WG1938492-2 PEST22 Run: 06/24/24 16:07 2819
CC Summary - PEST22 Run: 06/24/24 23:51 2840
CC Quant - WG1938492-3 PEST22 Run: 06/24/24 23:51 2842
CC Summary - PEST16 Run: 06/24/24 05:47 2868
CC Quant - WG1938572-1 PEST16 Run: 06/24/24 05:47 2870
RT Shift Summary 2875
Form 10 - Organics 2876
Herbicides Raw QC Data 2877
Laboratory Method Bl (WG1938239-1) Analyzed: 06/24/24 12:55 Chan. A&B 2878
Laboratory Control S (WG1938239-2) Analyzed: 06/24/24 13:14 Chan. A&B 2882
LCS Duplicate (WG1938239-3) Analyzed: 06/24/24 13:32 Chan. A&B 2892
Matrix Spike (WG1938239-4) Analyzed: 06/24/24 22:01 Chan. A&B 2902
Matrix Spike Duplica (WG1938239-5) Analyzed: 06/24/24 22:20 Chan. A&B 2914
Herbicides Calculations 2926
ICAL Sequence for PEST22 on 12-APR-2024 00:00 ICAL21040 2927
ICAL Sequence for PEST16 on 23-MAY-2024 00:00 ICAL21173 2928
Instrument PEST22 Run Date 06/24/24 Run ID R1845013 2929
Instrument PEST16 Run Date 06/24/24 Run ID R1845275 2932
QC Batch WG1938239 2933
Organic ELN-Workgroup:WG1938239 2934
GC PCB Analysis 2938

Table of Contents

Aroclor QC Summary 2939
Form 2 - Organics 2940
Form 3 - Organics 2941
Form 4 - Organics 2943
Form 8 - Organics 2944
MDL Study - PCBs 2945
Aroclor Sample Data 2947
Form 1 - Organics 2948
MW-7B (L2434679-06) Analyzed: 06/27/24 11:10 2962
MW-8A (L2434679-08) Analyzed: 06/27/24 11:28 2970
MW-9B (L2434679-10) Analyzed: 06/27/24 11:36 2979
MW-3A (L2434679-01) Analyzed: 06/27/24 11:45 2985
MW-6A (L2434679-02) Analyzed: 06/27/24 11:54 2991
MW-6B (L2434679-03) Analyzed: 06/27/24 12:02 2997
MW-6C (L2434679-04) Analyzed: 06/27/24 12:29 3003
MW-7A (L2434679-05) Analyzed: 06/27/24 12:38 3011
MW-8B (L2434679-09) Analyzed: 06/27/24 12:46 3020
DUP (L2434679-11) Analyzed: 06/27/24 12:55 3026
EB (L2434679-12) Analyzed: 06/27/24 13:03 3032
MW-8B2 (L2434679-14) Analyzed: 06/27/24 13:12 3041
MW-7C (L2434679-07) Analyzed: 06/27/24 14:31 3046
Aroclor Standards Data 3054
Initial Calibration 3055
Form 6 - Organics 3056
ICAL for PEST2 on 05/08/24 ICAL21102 3060
Initial Calibration Summary - Cal Date: 05/08/24 00:00 3060
1242/1268 L4 (250ug/L) Injected on: 05/06/24 20:49 3064
1232/1262 L4 (250ug/L) Injected on: 05/06/24 20:59 3070
1248 L4 (250ug/L) Injected on: 05/06/24 21:08 3075
1221/1254 L4 (250ug/L) Injected on: 05/06/24 21:18 3081
1016/1260 L2 (50ug/L) Injected on: 05/06/24 21:36 3092
1016/1260 L3 (100ug/L) Injected on: 05/06/24 21:46 3109
1016/1260 L4 (250ug/L) Injected on: 05/06/24 21:55 3118
1016/1260 L5 (500ug/L) Injected on: 05/06/24 22:04 3123
1016/1260 L6 (1000ug/L) Injected on: 05/06/24 22:14 3131
1242/1268 ICV Summary Form Injected on: 05/06/24 22:23 3149
1242/1268 ICV Quant Report Injected on: 05/06/24 22:23 3153
1232/1262 ICV Summary Form Injected on: 05/06/24 22:33 3166
1232/1262 ICV Quant Report Injected on: 05/06/24 22:33 3170
1248 ICV Summary Form Injected on: 05/06/24 22:42 3177
1248 ICV Quant Report Injected on: 05/06/24 22:42 3181
1221/1254 ICV Summary Form Injected on: 05/06/24 22:52 3186
1221/1254 ICV Quant Report Injected on: 05/06/24 22:52 3190
1016/1260 L1 (10ug/L) Injected on: 05/07/24 15:31 3202
1016/1260 ICV Summary Form Injected on: 05/07/24 15:41 3230
1016/1260 ICV Quant Report Injected on: 05/07/24 15:41 3234
Continuing Calibration 3253
Form 7 - Organics 3254
CC Summary - PEST2 Run: 06/27/24 05:39 3258
CC Quant - WG1940092-1 PEST2 Run: 06/27/24 05:39 3260

Table of Contents

CC Summary - PEST2 Run: 06/27/24 13:30 3286
CC Quant - WG1940092-5 PEST2 Run: 06/27/24 13:30 3288
RT Shift Summary 3307
Form 10 - Organics 3308
Aroclor Raw QC Data 3309
Laboratory Method Bl (WG1939973-1) Analyzed: 06/27/24 10:44 Chan. A&B 3310
Laboratory Control S (WG1939973-2) Analyzed: 06/27/24 10:53 Chan. A&B 3318
LCS Duplicate (WG1939973-3) Analyzed: 06/27/24 11:01 Chan. A&B 3327
Matrix Spike (WG1939973-4) Analyzed: 06/27/24 12:11 Chan. A&B 3342
Matrix Spike Duplica (WG1939973-5) Analyzed: 06/27/24 12:20 Chan. A&B 3362
PCB Calculations 3386
ICAL Sequence for PEST2 on 08-MAY-2024 00:00 ICAL21102 3387
Instrument PEST2 Run Date 06/27/24 Run ID R1846531 3388
QC Batch WG1939973 3389
Organic ELN-Workgroup:WG1939973 3390
GC Pesticide Analysis 3397
Pesticides QC Summary 3398
Form 2 - Organics 3399
Form 3 - Organics 3400
Form 4 - Organics 3403
Form 8 - Organics 3405
MDL Study - Pesticides 3407
Pesticides Sample Data 3409
Form 1 - Organics 3410
MW-6A (L2434679-02) Analyzed: 06/24/24 18:52 3440
MW-6B (L2434679-03) Analyzed: 06/24/24 19:03 3449
MW-6C (L2434679-04) Analyzed: 06/24/24 19:36 3456
MW-7A (L2434679-05) Analyzed: 06/24/24 19:47 3461
MW-7B (L2434679-06) Analyzed: 06/24/24 19:58 3465
MW-7C (L2434679-07) Analyzed: 06/24/24 20:09 3469
MW-8A (L2434679-08) Analyzed: 06/24/24 20:20 3473
MW-8B (L2434679-09) Analyzed: 06/24/24 20:31 3477
MW-9B (L2434679-10) Analyzed: 06/24/24 20:42 3481
DUP (L2434679-11) Analyzed: 06/24/24 20:53 3485
EB (L2434679-12) Analyzed: 06/24/24 21:04 3489
MW-8B2 (L2434679-14) Analyzed: 06/24/24 21:16 3493
MW-3A (L2434679-01) Analyzed: 06/26/24 21:02 3497
Pesticides Standards Data 3507
Initial Calibration 3508
Form 6 - Organics 3509
ICAL for PEST10 on 05/10/24 ICAL21109 3513
Initial Calibration Summary - Cal Date: 05/10/24 00:00 3513
Degradation Standard Injected on: 05/02/24 15:58 3518
Pesticides L1 (0.5ug/L) Injected on: 05/02/24 16:08 3533
Pesticides L2 (1.0ug/L) Injected on: 05/02/24 16:20 3540
Pesticides L3 (2.0ug/L) Injected on: 05/02/24 16:31 3594
Pesticides L4 (3.0ug/L) Injected on: 05/02/24 16:42 3647
Pesticides L5 (4.0ug/L) Injected on: 05/02/24 16:53 3694
Pesticides L7 (10.0ug/L) Injected on: 05/02/24 17:04 3745
Pesticides L8 (50.0ug/L) Injected on: 05/02/24 17:14 3795

Table of Contents

Pesticides L9 (100ug/L) Injected on: 05/02/24 17:25 3833
Pesticides L10 (200ug/L) Injected on: 05/02/24 17:36 3881
Pesticides L11 (400ug/L) Injected on: 05/02/24 17:47 3930
Initial Calibration Verification 3986
ICV Summary Form Injected on: 05/02/24 17:58 3987
ICV Quant Report Injected on: 05/02/24 17:58 3990
Chlordane L3 (10ug/L) Injected on: 05/02/24 18:09 4027
Chlordane L4 (20ug/L) Injected on: 05/02/24 18:20 4033
Chlordane L5 (100ug/L) Injected on: 05/02/24 18:31 4039
Chlordane L7 (500ug/L) Injected on: 05/02/24 18:42 4043
Chlordane L8 (1000ug/L) Injected on: 05/02/24 18:53 4047
Chlordane L9 (2000ug/L) Injected on: 05/02/24 19:04 4053
Chlordane L10 (5000ug/L) Injected on: 05/02/24 19:15 4058
Initial Calibration Verification 4063
ICV Summary Form Injected on: 05/02/24 19:26 4064
ICV Quant Report Injected on: 05/02/24 19:26 4067
Toxaphene L3 (20.0ug/L) Injected on: 05/02/24 19:37 4073
Toxaphene L4 (100ug/L) Injected on: 05/02/24 19:48 4085
Toxaphene L7 (1000ug/L) Injected on: 05/02/24 20:00 4092
Toxaphene L8 (2000ug/L) Injected on: 05/02/24 20:11 4096
Toxaphene L9 (5000ug/L) Injected on: 05/02/24 20:22 4101
Initial Calibration Verification 4106
ICV Summary Form Injected on: 05/02/24 20:33 4107
ICV Quant Report Injected on: 05/02/24 20:33 4110
Correlation Data Summary 4115
Continuing Calibration 4117
Form 7 - Organics 4118
CC Summary - PEST10 Run: 06/24/24 15:57 4130
CC Quant - WG1938709-1 PEST10 Run: 06/24/24 15:57 4133
CC Summary - PEST10 Run: 06/24/24 16:08 4176
CC Quant - WG1938709-2 PEST10 Run: 06/24/24 16:08 4179
CC Summary - PEST10 Run: 06/24/24 16:19 4184
CC Quant - WG1938709-3 PEST10 Run: 06/24/24 16:19 4187
CC Summary - PEST10 Run: 06/26/24 17:14 4194
CC Quant - WG1939871-1 PEST10 Run: 06/26/24 17:14 4197
CC Summary - PEST10 Run: 06/26/24 17:25 4229
CC Quant - WG1939871-2 PEST10 Run: 06/26/24 17:25 4232
CC Summary - PEST10 Run: 06/26/24 17:36 4241
CC Quant - WG1939871-3 PEST10 Run: 06/26/24 17:36 4244
Continuing Calibration Degradation Check 4249
Form 15 - Organics 4250
DEG Quant for PEST10 injected on 06/24/24 15:46 4252
DEG Quant for PEST10 injected on 06/26/24 17:03 4265
RT Shift Summary 4277
Form 10 - Organics 4278
Pesticides Raw QC Data 4279
Laboratory Method Bl (WG1938134-1) Analyzed: 06/24/24 18:08 Chan. A&B 4280
Laboratory Method Bl (WG1939408-1) Analyzed: 06/26/24 20:18 Chan. A&B 4284
Laboratory Control S (WG1938134-2) Analyzed: 06/24/24 18:19 Chan. A&B 4297
Laboratory Control S (WG1939408-2) Analyzed: 06/26/24 20:29 Chan. A&B 4332

Table of Contents

LCS Duplicate (WG1938134-3) Analyzed: 06/24/24 18:30 Chan. A&B 4377
LCS Duplicate (WG1939408-3) Analyzed: 06/26/24 20:40 Chan. A&B 4417
Matrix Spike (WG1938134-4) Analyzed: 06/24/24 19:14 Chan. A&B 4460
Matrix Spike Duplica (WG1938134-5) Analyzed: 06/24/24 19:25 Chan. A&B 4495
Pesticides Calculations 4532
ICAL Sequence for PEST10 on 10-MAY-2024 00:00 ICAL21109 4533
Instrument PEST10 Run Date 06/24/24 Run ID R1845102 4534
DaySequence 4534
Instrument PEST10 Run Date 06/26/24 Run ID R1846414 4535
QC Batch WG1938134 4536
QC Batch WG1939408 4537
Organic ELN-Workgroup:WG1939408 4538
Organic ELN-Workgroup:WG1938134 4540
Metals Analysis 4543
Inorganic Data (ICPMS Analysis) 4544
Form 1 - Inorganics 4545
Form 2A - Inorganics 4573
Form 3 - Inorganics 4583
Form 4A - Inorganics 4594
Form 5A - Inorganics 4596
Form 7 - Inorganics 4598
Form 12 - Inorganics 4600
Form 13 - Inorganics 4602
Form 14 - Inorganics 4607
Form 15 - Inorganics 4609
MDL Study - Metals by ICPMS 4614
Tune Report Run Date 06/26/24 Run ID R1845784 4616
Run Date 06/26/24 Run ID R1845784 4619
ICPMS True Value Summary Form 4864
ICPMS Calculations 4878
Instrument ICPMSQ Run Date 06/26/24 Run ID R1845784 4879
Metals ELN-Workgroup:WG1939188 4884
Metals ELN-Workgroup:WG1939202 4886
Inorganic Data (Mercury Analysis) 4888
Form 1 - Inorganics 4889
Form 2A - Inorganics 4917
Form 3 - Inorganics 4923
Form 5A - Inorganics 4929
Form 7 - Inorganics 4931
Form 12 - Inorganics 4933
Form 13 - Inorganics 4935
MDL Study - Mercury by 245.1 4939
MDL Study - Mercury by 7470A 4940
MDL Study - Mercury by 7471B 4941
Run Date 06/26/24 Run ID R1845962 4942
Run Date 06/26/24 Run ID R1845999 4947
Hg True Value Summary Form 4952
HG Calculations 4966
Instrument NIC1 Run Date 06/26/24 Run ID R1845962 4968
Instrument NIC2 Run Date 06/26/24 Run ID R1845999 4971

Table of Contents

Metals ELN-Workgroup:WG1939190 4974
Metals ELN-Workgroup:WG1939206 4977
Wet Chemistry Analysis 4980
Total Nitrogen Calculation 4981
Results 4982
Form 1 - Inorganics 4983
Sample Raw Data 4995
Wet Chemistry Raw Data 4996
Total Nitrogen Calculations 4997
TKN Analysis 4998
Results 4999
Form 1 - Inorganics 5000
Sample Raw Data 5014
Wet Chemistry Raw Data 5015
WG1939874_rawdata 5015
WG1939878_rawdata 5015
240627_NH3TKN_rawdataA 5015
240627_NH3TKN_rawdataA1 5017
240627_NH3TKN_rawdataA2 5019
240627_NH3TKN_rawdataB 5021
240627_NH3TKN_rawdataC 5023
240627_NH3TKN_rawdataC1 5025
Quality Control 5027
Form 5A - Inorganics 5028
Form 6 - Inorganics 5029
Form 7 - Inorganics 5030
MDL Study - Total Kjeldahl Nitrogen 5031
TKN Calculations 5033
Sequence Logs 5034
Instrument LACHAT Run Date 06/27/24 Run ID R1846718 5035
Sample Preparation 5037
Prep Log 5038
Ammonia Analysis 5039
Results 5040
Form 1 - Inorganics 5041
Sample Raw Data 5058
Wet Chemistry Raw Data 5059
Quality Control 5086
Form 5A - Inorganics 5087
Form 6 - Inorganics 5090
Form 7 - Inorganics 5093
MDL Study - Ammonia 5095
Ammonia Calculations 5097
Sequence Logs 5098
Instrument LACHAT Run Date 06/26/24 Run ID R1846166 5099
Instrument LACHAT Run Date 06/27/24 Run ID R1846773 5101
Sample Preparation 5105
Prep Log 5106
Nitrate-Nitrite Analysis 5108
Results 5109

Table of Contents

Form 1 - Inorganics 5110
Sample Raw Data 5124
Wet Chemistry Raw Data 5125
240625-1 5125
240625-2 5144
Quality Control 5147
Form 5A - Inorganics 5148
Form 6 - Inorganics 5149
Form 7 - Inorganics 5150
MDL Study - Nitrate and Nitrite 5151
Nitrate Nitrite Calculations 5153
Sequence Logs 5154
Instrument LACHAT Run Date 06/25/24 Run ID R1845251 5155
Sheet1 5155
Total Dissolved Solids Analysis 5158
Results 5159
Form 1 - Inorganics 5160
Sample Raw Data 5180
Wet Chemistry Raw Data 5181
Quality Control 5186
Form 6 - Inorganics 5187
Form 7 - Inorganics 5192
MDL Study - Total Dissolved Solids 5195
TDS Calculations 5196
Alkalinity Analysis 5197
Results 5198
Form 1 - Inorganics 5199
Sample Raw Data 5213
Wet Chemistry Raw Data 5214
240623_ALK 5214
240623_cal 5228
240623_lcs 5230
Quality Control 5231
Form 5A - Inorganics 5232
Form 6 - Inorganics 5233
Form 7 - Inorganics 5234
MDL Study - Alkalinity 5235
Alkalinity Calculations 5236
Sequence Logs 5237
Instrument TITR5 Run Date 06/23/24 Run ID R1844749 5238
Phosphates Analysis 5239
Results 5240
Form 1 - Inorganics 5241
Sample Raw Data 5255
Wet Chemistry Raw Data 5256
Quality Control 5258
Form 5A - Inorganics 5259
Form 6 - Inorganics 5260
Form 7 - Inorganics 5261
MDL Study - Total Phosphorus 5262

Table of Contents

MDL Study - Orthophosphate 5264
Total Phosphorus Calculation 5266
Wet Chemistry By IC Methods 5267
Results 5268
Form 1 - Inorganics 5269
Sample Raw Data 5285
Wet Chemistry Raw Data 5286
Quality Control 5402
Form 5A - Inorganics 5403
Form 6 - Inorganics 5405
Form 7 - Inorganics 5407
MDL Study - Ion Chromatography 5409
IC Calculations 5410
Alpha Analytical Report 5411
Subcontracted Data Documents 5411
Subcontracted Data 5412
Subcontracted Data Deliverable Package 5458

Project Name: RANCO MINE
Project Number: 12123

Lab Number: L2434679
Report Date: 07/09/24

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2434679-01	MW-3A	WATER	MANORVILLE, NY	06/19/24 09:30	06/19/24
L2434679-02	MW-6A	WATER	MANORVILLE, NY	06/18/24 16:35	06/19/24
L2434679-03	MW-6B	WATER	MANORVILLE, NY	06/18/24 14:50	06/19/24
L2434679-04	MW-6C	WATER	MANORVILLE, NY	06/18/24 14:49	06/19/24
L2434679-05	MW-7A	WATER	MANORVILLE, NY	06/18/24 10:15	06/19/24
L2434679-06	MW-7B	WATER	MANORVILLE, NY	06/18/24 12:05	06/19/24
L2434679-07	MW-7C	WATER	MANORVILLE, NY	06/18/24 12:12	06/19/24
L2434679-08	MW-8A	WATER	MANORVILLE, NY	06/18/24 16:47	06/19/24
L2434679-09	MW-8B	WATER	MANORVILLE, NY	06/18/24 18:25	06/19/24
L2434679-10	MW-9B	WATER	MANORVILLE, NY	06/19/24 11:00	06/19/24
L2434679-11	DUP	WATER	MANORVILLE, NY	06/18/24 00:00	06/19/24
L2434679-12	EB	WATER	MANORVILLE, NY	06/18/24 19:00	06/19/24
L2434679-13	TB	WATER	MANORVILLE, NY	06/18/24 00:00	06/19/24
L2434679-14	MW-8B2	WATER	MANORVILLE, NY	06/18/24 18:07	06/19/24

Case Narrative

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

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

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

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

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

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

Case Narrative (continued)

Report Submission
July 09, 2024: This final report includes the results of all requested analyses.
June 27, 2024: This is a preliminary report.

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

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

Dissolved Metals
The WG1939202-3/-4 MS/MSD recoveries for calcium (71%/74%), performed on L2434679-03, do not apply because the sample concentration is greater than four times the spike amount added.

Nitrogen, Ammonia
L2434679-09: The Ammonia result is slightly higher than the TKN result. The difference is within % RPD limits; therefore, no further action was taken.

Anions by Ion Chromatography
The WG1939114-3 MS recovery, performed on L2434679-01, is outside the acceptance criteria for fluoride (88%); however, the associated LCS recovery is within criteria. No further action was taken.
The WG1939169-3 MS recoveries, performed on L2434679-11, are outside the acceptance criteria for bromide (88%) and chloride (88%); however, the associated LCS recoveries are within criteria. No further action was taken.

Nitrogen, Total Kjeldahl
The WG1939567-4 MS recovery, performed on L2434679-14, is outside the acceptance criteria for nitrogen, total kjeldahl (112%); however, the associated LCS recovery is within criteria. No further action was taken.

Case Narrative (continued)

Nitrogen, Ammonia

The WG1939872-6 MS recovery, performed on L2434679-14, is outside the acceptance criteria for nitrogen, ammonia (112%); however, the associated LCS recovery is within criteria. No further action was taken.

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

Authorized Signature: Kelly Stenstrom Report Date: 07/10/24

Title: Technical Director/Representative

GLOSSARY

Acronyms

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

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

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

EPA - Environmental Protection Agency.

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

LCSD - Laboratory Control Sample Duplicate: Refer to LCS.

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

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

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

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

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

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

MSD - Matrix Spike Sample Duplicate: Refer to MS.

NA - Not Applicable.

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

NDPA/DPA - N-Nitrosodiphenylamine/Diphenylamine.

NI - Not Ignitable.

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

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

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

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

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

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

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

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

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

Report Format: DU Report with 'J' Qualifiers

Footnotes

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

Terms

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

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

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

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

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

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

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

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

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

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

Data Qualifiers

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

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

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

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

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

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

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

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

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

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

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

Report Format: DU Report with 'J' Qualifiers

Data Qualifiers

the identification is based on a mass spectral library search.

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

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

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

S - Analytical results are from modified screening analysis.

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

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

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

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

Report Format: DU Report with 'J' Qualifiers

Volatile Organics Instruments

Volatile Organics:

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

Volatile Organics: VPH

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

Volatile Organics: PIANO

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

Volatile Organics: Dissolved Gas

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

Volatile Organics in Air Instruments

Volatile Organics in Air:

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

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

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

Semivolatile Organics Instruments - Westborough

Semivolatile Organics (Acid/Base/Neutral Extractables):

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

Polynuclear Aromatic Hydrocarbons by 8270 SIM:

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

Pesticides/PCB/Herbicides:

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

Petroleum/EPH:

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

Semivolatile Organic Instruments - Mansfield

Semivolatile Organics (ALK-PAH Extractables):

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

Semivolatile Organics (8270):

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

Semivolatile Organics (8270 SIM):

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

Semivolatile Organics (1,4-Dioxane):

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

Semivolatile Organics (209 Congener):

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

Semivolatile Organics (8081):

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

Semivolatile Organics (8082):

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

Semivolatile Organics (SHC Extractables):

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

Sample Delivery Group Summary

Alpha Job Number : L2434679

Account Name : Alpha Geoscience
Project Number : 12123
Project Name : RANCO SAND & GRAVEL

Received : 19-JUN-2024
Reviewer : Mohammed Wahed

Delivery Information

Samples Delivered By : Alpha Courier

Chain of Custody : Present

Cooler Information

Cooler	Seal/Seal#	Preservation	Temperature(°C)	Additional Information
A	Absent/	Ice	3.6	
B	Absent/	Ice	5.6	
C	Absent/	Ice	5.2	
D	Absent/	Ice	5.8	
E	Absent/	Ice	5.4	
F	Absent/	Ice	5.9	
G	Absent/	Ice	5.9	
H	Absent/	Ice	4.4	
I	Absent/	Ice	4.3	

Condition Information

1) All samples on COC received?	**YES**
2) Extra samples received?	**NO**
3) Are there any sample container discrepancies?	**NO**
4) Are there any discrepancies between COC & sample labels?	**NO**
5) Are samples in appropriate containers for requested analysis?	**YES**
6) Are samples properly preserved for requested analysis?	**YES**
7) Are samples within holding time for requested analysis?	**YES**
8) All sampling equipment returned?	**NA**

Volatile Organics/VPH

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

Sample Delivery Group Summary

Alpha Job Number : L2434679

Account Name : Alpha Geoscience
Project Number : 12123
Project Name : RANCO SAND & GRAVEL

Received : 19-JUN-2024
Reviewer : Mohammed Wahed

Comments

L2434679-10H Cap cracked, sample intact

ALPHA ANALYTICAL LABORATORIES, INC.
LOGIN CHAIN OF CUSTODY REPORT
Jul 15 2024, 03:33 pm

Login Number: L2434679
Account: ALPHAGEO Alpha GeoscienceProject: 12123
Received: 19JUN24 Due Date: 09JUL24

Sample #	Client ID	Mat	PR	Collected
L2434679-01	MW-3A		1 S0	19JUN24 09:30

1ZE306540198647078 123.03 USD 8260/8270 report list built ASP-B Package Due Date: 07/17/24

ALK-T-2320,ASP-B,BR-300,CL-300,F-300,HERB-APA,NH3-350,NYTCL-8081,NYTCL-8082-LVI,NYTCL-8260-R2,NYTCL-8270/SIM-LVI,NYTCL-8270-LVI,NYTCL-8270-SIM-LVI,SO4-300,SUB-IODIDE,SUB-LEVEL5,SUB-SULFIDE,TAL-6020S,AG-6020S,AL-6020S,AS-6020S,BA-6020S,BE-6020S,CA-6020S,CD-6020S,CO-6020S,CR-6020S,CU-6020S,FE-6020S,HG-S,K-6020S,MG-6020S,MN-6020S,NA-6020S,NI-6020S,PB-6020S,PREPS,SB-6020S,SE-6020S,TL-6020S,V-6020S,ZN-6020S,TAL-6020T,AG-6020T,AL-6020T,AS-6020T,BA-6020T,BE-6020T,CA-6020T,CD-6020T,CO-6020T,CR-6020T,CU-6020T,FE-6020T,HG-T,K-6020T,MG-6020T,MN-6020T,NA-6020T,NI-6020T,PB-6020T,PREPT,SB-6020T,SE-6020T,TL-6020T,V-6020T,ZN-6020T,TDS-2540,TOTALNITROGEN-353,NO3/NO2-353,TKN-4500,TNITROGEN,TPO4-4500

L2434679-02	MW-6A		1 S0	18JUN24 16:35

8260/8270 report list built Package Due Date: 07/17/24

ALK-T-2320,BR-300,CL-300,F-300,HERB-APA,NH3-350,NYTCL-8081,NYTCL-8082-LVI,NYTCL-8260-R2,NYTCL-8270/SIM-LVI,NYTCL-8270-LVI,NYTCL-8270-SIM-LVI,SO4-300,SUB-IODIDE,SUB-SULFIDE,TAL-6020S,AG-6020S,AL-6020S,AS-6020S,BA-6020S,BE-6020S,CA-6020S,CD-6020S,CO-6020S,CR-6020S,CU-6020S,FE-6020S,HG-S,K-6020S,MG-6020S,MN-6020S,NA-6020S,NI-6020S,PB-6020S,PREPS,SB-6020S,SE-6020S,TL-6020S,V-6020S,ZN-6020S,TAL-6020T,AG-6020T,AL-6020T,AS-6020T,BA-6020T,BE-6020T,CA-6020T,CD-6020T,CO-6020T,CR-6020T,CU-6020T,FE-6020T,HG-T,K-6020T,MG-6020T,MN-6020T,NA-6020T,NI-6020T,PB-6020T,PREPT,SB-6020T,SE-6020T,TL-6020T,V-6020T,ZN-6020T,TDS-2540,TOTALNITROGEN-353,NO3/NO2-353,TKN-4500,TNITROGEN,TPO4-4500

L2434679-03	MW-6B		1 S0	18JUN24 14:50

L2434679-03 MS for VOAs, SVOAs, Pests, PCBs, Herbs and Metals only. L2434679-03 MSD for VOAs, SVOAs, Pests, PCBs, Herbs and Metals only. 8260/8270 report list built Package Due Date: 07/17/24

ALPHA ANALYTICAL LABORATORIES, INC.
LOGIN CHAIN OF CUSTODY REPORT
Jul 15 2024, 03:33 pm

Login Number: L2434679
Account: ALPHAGEO Alpha GeoscienceProject: 12123
Received: 19JUN24 Due Date: 09JUL24

Sample #	Client ID	Mat	PR	Collected

ALK-T-2320,BR-300,CL-300,F-300,HERB-APA,MS/MSD,NH3-350,NYTCL-8081,NYTCL-8082-LVI,NYTCL-8260-R2,
NYTCL-8270/SIM-LVI,NYTCL-8270-LVI,NYTCL-8270-SIM-LVI,SO4-300,SUB-IODIDE,SUB-SULFIDE,TAL-6020S,AG-
6020S,AL-6020S,AS-6020S,BA-6020S,BE-6020S,CA-6020S,CD-6020S,CO-6020S,CR-6020S,CU-6020S,FE-6020S,HG-
S,K-6020S,MG-6020S,MN-6020S,NA-6020S,NI-6020S,PB-6020S,PREPS,SB-6020S,SE-6020S,TL-6020S,V-6020S,ZN-
6020S,TAL-6020T,AG-6020T,AL-6020T,AS-6020T,BA-6020T,BE-6020T,CA-6020T,CD-6020T,CO-6020T,CR-6020T,CU-
6020T,FE-6020T,HG-T,K-6020T,MG-6020T,MN-6020T,NA-6020T,NI-6020T,PB-6020T,PREPT,SB-6020T,SE-6020T,TL-
6020T,V-6020T,ZN-6020T,TDS-2540,TOTALNITROGEN-353,NO3/NO2-353,TKN-4500,TNITROGEN,TPO4-4500

L2434679-04 MW-6C 1 S0 18JUN24 14:49
8260/8270 report list built Package Due Date: 07/17/24

ALK-T-2320,BR-300,CL-300,F-300,HERB-APA,NH3-350,NYTCL-8081,NYTCL-8082-LVI,NYTCL-8260-R2,NYTCL-
8270/SIM-LVI,NYTCL-8270-LVI,NYTCL-8270-SIM-LVI,SO4-300,SUB-IODIDE,SUB-SULFIDE,TAL-6020S,AG-6020S,AL-
6020S,AS-6020S,BA-6020S,BE-6020S,CA-6020S,CD-6020S,CO-6020S,CR-6020S,CU-6020S,FE-6020S,HG-S,K-6020S,
MG-6020S,MN-6020S,NA-6020S,NI-6020S,PB-6020S,PREPS,SB-6020S,SE-6020S,TL-6020S,V-6020S,ZN-6020S,TAL-
6020T,AG-6020T,AL-6020T,AS-6020T,BA-6020T,BE-6020T,CA-6020T,CD-6020T,CO-6020T,CR-6020T,CU-6020T,FE-
6020T,HG-T,K-6020T,MG-6020T,MN-6020T,NA-6020T,NI-6020T,PB-6020T,PREPT,SB-6020T,SE-6020T,TL-6020T,V-
6020T,ZN-6020T,TDS-2540,TOTALNITROGEN-353,NO3/NO2-353,TKN-4500,TNITROGEN,TPO4-4500

L2434679-05 MW-7A 1 S0 18JUN24 10:15
8260/8270 report list built Package Due Date: 07/17/24

ALK-T-2320,BR-300,CL-300,F-300,HERB-APA,NH3-350,NYTCL-8081,NYTCL-8082-LVI,NYTCL-8260-R2,NYTCL-
8270/SIM-LVI,NYTCL-8270-LVI,NYTCL-8270-SIM-LVI,SO4-300,SUB-IODIDE,SUB-SULFIDE,TAL-6020S,AG-6020S,AL-
6020S,AS-6020S,BA-6020S,BE-6020S,CA-6020S,CD-6020S,CO-6020S,CR-6020S,CU-6020S,FE-6020S,HG-S,K-6020S,
MG-6020S,MN-6020S,NA-6020S,NI-6020S,PB-6020S,PREPS,SB-6020S,SE-6020S,TL-6020S,V-6020S,ZN-6020S,TAL-
6020T,AG-6020T,AL-6020T,AS-6020T,BA-6020T,BE-6020T,CA-6020T,CD-6020T,CO-6020T,CR-6020T,CU-6020T,FE-
6020T,HG-T,K-6020T,MG-6020T,MN-6020T,NA-6020T,NI-6020T,PB-6020T,PREPT,SB-6020T,SE-6020T,TL-6020T,V-
6020T,ZN-6020T,TDS-2540,TOTALNITROGEN-353,NO3/NO2-353,TKN-4500,TNITROGEN,TPO4-4500

L2434679-06 MW-7B 1 S0 18JUN24 12:05
8260/8270 report list built Package Due Date: 07/17/24

ALPHA ANALYTICAL LABORATORIES, INC.
LOGIN CHAIN OF CUSTODY REPORT
Jul 15 2024, 03:33 pm

Login Number: L2434679
Account: ALPHAGEO Alpha GeoscienceProject: 12123
Received: 19JUN24 Due Date: 09JUL24

Sample #	Client ID	Mat	PR	Collected

ALK-T-2320,BR-300,CL-300,F-300,HERB-APA,NH3-350,NYTCL-8081,NYTCL-8082-LVI,NYTCL-8260-R2,NYTCL-8270/SIM-LVI,NYTCL-8270-LVI,NYTCL-8270-SIM-LVI,SO4-300,SUB-IODIDE,SUB-SULFIDE,TAL-6020S,AG-6020S,AL-6020S,AS-6020S,BA-6020S,BE-6020S,CA-6020S,CD-6020S,CO-6020S,CR-6020S,CU-6020S,FE-6020S,HG-S,K-6020S,MG-6020S,MN-6020S,NA-6020S,NI-6020S,PB-6020S,PREPS,SB-6020S,SE-6020S,TL-6020S,V-6020S,ZN-6020S,TAL-6020T,AG-6020T,AL-6020T,AS-6020T,BA-6020T,BE-6020T,CA-6020T,CD-6020T,CO-6020T,CR-6020T,CU-6020T,FE-6020T,HG-T,K-6020T,MG-6020T,MN-6020T,NA-6020T,NI-6020T,PB-6020T,PREPT,SB-6020T,SE-6020T,TL-6020T,V-6020T,ZN-6020T,TDS-2540,TOTALNITROGEN-353,NO3/NO2-353,TKN-4500,TNITROGEN,TPO4-4500

L2434679-07 MW-7C 1 S0 18JUN24 12:12
8260/8270 report list built Package Due Date: 07/17/24

ALK-T-2320,BR-300,CL-300,F-300,HERB-APA,NH3-350,NYTCL-8081,NYTCL-8082-LVI,NYTCL-8260-R2,NYTCL-8270/SIM-LVI,NYTCL-8270-LVI,NYTCL-8270-SIM-LVI,SO4-300,SUB-IODIDE,SUB-SULFIDE,TAL-6020S,AG-6020S,AL-6020S,AS-6020S,BA-6020S,BE-6020S,CA-6020S,CD-6020S,CO-6020S,CR-6020S,CU-6020S,FE-6020S,HG-S,K-6020S,MG-6020S,MN-6020S,NA-6020S,NI-6020S,PB-6020S,PREPS,SB-6020S,SE-6020S,TL-6020S,V-6020S,ZN-6020S,TAL-6020T,AG-6020T,AL-6020T,AS-6020T,BA-6020T,BE-6020T,CA-6020T,CD-6020T,CO-6020T,CR-6020T,CU-6020T,FE-6020T,HG-T,K-6020T,MG-6020T,MN-6020T,NA-6020T,NI-6020T,PB-6020T,PREPT,SB-6020T,SE-6020T,TL-6020T,V-6020T,ZN-6020T,TDS-2540,TOTALNITROGEN-353,NO3/NO2-353,TKN-4500,TNITROGEN,TPO4-4500

L2434679-08 MW-8A 1 S0 18JUN24 16:47
8260/8270 report list built Package Due Date: 07/17/24

ALK-T-2320,BR-300,CL-300,F-300,HERB-APA,NH3-350,NYTCL-8081,NYTCL-8082-LVI,NYTCL-8260-R2,NYTCL-8270/SIM-LVI,NYTCL-8270-LVI,NYTCL-8270-SIM-LVI,SO4-300,SUB-IODIDE,SUB-SULFIDE,TAL-6020S,AG-6020S,AL-6020S,AS-6020S,BA-6020S,BE-6020S,CA-6020S,CD-6020S,CO-6020S,CR-6020S,CU-6020S,FE-6020S,HG-S,K-6020S,MG-6020S,MN-6020S,NA-6020S,NI-6020S,PB-6020S,PREPS,SB-6020S,SE-6020S,TL-6020S,V-6020S,ZN-6020S,TAL-6020T,AG-6020T,AL-6020T,AS-6020T,BA-6020T,BE-6020T,CA-6020T,CD-6020T,CO-6020T,CR-6020T,CU-6020T,FE-6020T,HG-T,K-6020T,MG-6020T,MN-6020T,NA-6020T,NI-6020T,PB-6020T,PREPT,SB-6020T,SE-6020T,TL-6020T,V-6020T,ZN-6020T,TDS-2540,TOTALNITROGEN-353,NO3/NO2-353,TKN-4500,TNITROGEN,TPO4-4500

L2434679-09 MW-8B 1 S0 18JUN24 18:25
8260/8270 report list built Package Due Date: 07/17/24

ALPHA ANALYTICAL LABORATORIES, INC.
LOGIN CHAIN OF CUSTODY REPORT
Jul 15 2024, 03:33 pm

Login Number: L2434679
Account: ALPHAGEO Alpha GeoscienceProject: 12123
Received: 19JUN24 Due Date: 09JUL24

Sample #	Client ID	Mat	PR	Collected

ALK-T-2320,BR-300,CL-300,F-300,HERB-APA,NH3-350,NYTCL-8081,NYTCL-8082-LVI,NYTCL-8260-R2,NYTCL-8270/SIM-LVI,NYTCL-8270-LVI,NYTCL-8270-SIM-LVI,SO4-300,SUB-IODIDE,SUB-SULFIDE,TAL-6020S,AG-6020S,AL-6020S,AS-6020S,BA-6020S,BE-6020S,CA-6020S,CD-6020S,CO-6020S,CR-6020S,CU-6020S,FE-6020S,HG-S,K-6020S,MG-6020S,MN-6020S,NA-6020S,NI-6020S,PB-6020S,PREPS,SB-6020S,SE-6020S,TL-6020S,V-6020S,ZN-6020S,TAL-6020T,AG-6020T,AL-6020T,AS-6020T,BA-6020T,BE-6020T,CA-6020T,CD-6020T,CO-6020T,CR-6020T,CU-6020T,FE-6020T,HG-T,K-6020T,MG-6020T,MN-6020T,NA-6020T,NI-6020T,PB-6020T,PREPT,SB-6020T,SE-6020T,TL-6020T,V-6020T,ZN-6020T,TDS-2540,TOTALNITROGEN-353,NO3/NO2-353,TKN-4500,TNITROGEN,TPO4-4500

L2434679-10	MW-9B		1 S0	19JUN24 11:00

8260/8270 report list built Package Due Date: 07/17/24

ALK-T-2320,BR-300,CL-300,F-300,HERB-APA,NH3-350,NYTCL-8081,NYTCL-8082-LVI,NYTCL-8260-R2,NYTCL-8270/SIM-LVI,NYTCL-8270-LVI,NYTCL-8270-SIM-LVI,SO4-300,SUB-IODIDE,SUB-SULFIDE,TAL-6020S,AG-6020S,AL-6020S,AS-6020S,BA-6020S,BE-6020S,CA-6020S,CD-6020S,CO-6020S,CR-6020S,CU-6020S,FE-6020S,HG-S,K-6020S,MG-6020S,MN-6020S,NA-6020S,NI-6020S,PB-6020S,PREPS,SB-6020S,SE-6020S,TL-6020S,V-6020S,ZN-6020S,TAL-6020T,AG-6020T,AL-6020T,AS-6020T,BA-6020T,BE-6020T,CA-6020T,CD-6020T,CO-6020T,CR-6020T,CU-6020T,FE-6020T,HG-T,K-6020T,MG-6020T,MN-6020T,NA-6020T,NI-6020T,PB-6020T,PREPT,SB-6020T,SE-6020T,TL-6020T,V-6020T,ZN-6020T,TDS-2540,TOTALNITROGEN-353,NO3/NO2-353,TKN-4500,TNITROGEN,TPO4-4500

L2434679-11	DUP		1 S0	18JUN24 00:00

8260/8270 report list built Package Due Date: 07/17/24

ALK-T-2320,BR-300,CL-300,F-300,HERB-APA,NH3-350,NYTCL-8081,NYTCL-8082-LVI,NYTCL-8260-R2,NYTCL-8270/SIM-LVI,NYTCL-8270-LVI,NYTCL-8270-SIM-LVI,SO4-300,SUB-IODIDE,SUB-SULFIDE,TAL-6020S,AG-6020S,AL-6020S,AS-6020S,BA-6020S,BE-6020S,CA-6020S,CD-6020S,CO-6020S,CR-6020S,CU-6020S,FE-6020S,HG-S,K-6020S,MG-6020S,MN-6020S,NA-6020S,NI-6020S,PB-6020S,PREPS,SB-6020S,SE-6020S,TL-6020S,V-6020S,ZN-6020S,TAL-6020T,AG-6020T,AL-6020T,AS-6020T,BA-6020T,BE-6020T,CA-6020T,CD-6020T,CO-6020T,CR-6020T,CU-6020T,FE-6020T,HG-T,K-6020T,MG-6020T,MN-6020T,NA-6020T,NI-6020T,PB-6020T,PREPT,SB-6020T,SE-6020T,TL-6020T,V-6020T,ZN-6020T,TDS-2540,TOTALNITROGEN-353,NO3/NO2-353,TKN-4500,TNITROGEN,TPO4-4500

L2434679-12	EB		1 S0	18JUN24 19:00

8260/8270 report list built Package Due Date: 07/17/24

ALPHA ANALYTICAL LABORATORIES, INC.
LOGIN CHAIN OF CUSTODY REPORT
Jul 15 2024, 03:33 pm

Login Number: L2434679
Account: ALPHAGEO Alpha GeoscienceProject: 12123
Received: 19JUN24 Due Date: 09JUL24

Sample #	Client ID	Mat	PR	Collected

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

L2434679-13 TB 1 S0 18JUN24 00:00

8260 report list built Package Due Date: 07/17/24

NYTCL-8260-R2

L2434679-14 MW-8B2 1 S0 18JUN24 18:07

8260/8270 report list built Package Due Date: 07/17/24

ALK-T-2320,BR-300,CL-300,F-300,HERB-APA,NH3-350,NYTCL-8081,NYTCL-8082-LVI,NYTCL-8260-R2,NYTCL-8270/SIM-LVI,NYTCL-8270-LVI,NYTCL-8270-SIM-LVI,SO4-300,SUB-IODIDE,SUB-SULFIDE,TAL-6020S,AG-6020S,AL-6020S,AS-6020S,BA-6020S,BE-6020S,CA-6020S,CD-6020S,CO-6020S,CR-6020S,CU-6020S,FE-6020S,HG-S,K-6020S,MG-6020S,MN-6020S,NA-6020S,NI-6020S,PB-6020S,PREPS,SB-6020S,SE-6020S,TL-6020S,V-6020S,ZN-6020S,TAL-6020T,AG-6020T,AL-6020T,AS-6020T,BA-6020T,BE-6020T,CA-6020T,CD-6020T,CO-6020T,CR-6020T,CU-6020T,FE-6020T,HG-T,K-6020T,MG-6020T,MN-6020T,NA-6020T,NI-6020T,PB-6020T,PREPT,SB-6020T,SE-6020T,TL-6020T,V-6020T,ZN-6020T,TDS-2540,TOTALNITROGEN-353,NO3/NO2-353,TKN-4500,TNITROGEN,TPO4-4500

Logged By: Melissa Deyo

NEW YORK CHAIN OF CUSTODY

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

Page 1 of 2

Date Rec'd in Lab: 6/20/24

ALPHA Job #: L2434679

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

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

Client Information

Client: Alpha Geoscience
Address: 679 Plank Road
Clifton Park, NY 12065
Phone: 518-348-6995
Fax:
Email: shulseapple@alphageoscience.co

Project Information

Project Name: Ranco Mine
Project Location: Manorville, NY
Project #: 12123
(Use Project name as Project #)
Project Manager: Scott Hulseapple
ALPHAQuote #:

Turn-Around Time

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

Deliverables

ASP-A x ASP-B
EQuIS (1 File) x EQuIS (NYSDEC v4)
Other

Regulatory Requirement

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

Billing Information

Matt Metz/Ranco
PO #

Disposal Site Information

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

These samples have been previously analyzed by Alpha

Other project specific requirements/comments:

Dissolved metals are field filtered

Please specify Metals or TAL.

Sample Filtration

x Done
Lab to do
Preservation
Lab to do
(Please Specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	VOCs 8260 TCL	SVOCs 8270 TCL	Pest/PCBs 8081/8082	Herbicides 8151	Total & DissolvedTCL Metals	Sulfide	NO3/NO2, Tnit, TKN, NH3	Cl, Br, F, SO4, Alk, TDS	Total Phosphate	Iodide	Sample Specific Comments	Total Bottles
34679-01	MW-3A	09:30	6/19/24	WG	ER	x	x	x	x	x	x	x	x	x	x		
-02	MW-6A	16:35	6/18/24	WG	ER	x	x	x	x	x	x	x	x	x	x		
-03	MW-6B	14:50	6/18/24	WG	ER	x	x	x	x	x	x	x	x	x	x		
-04	MW-6C	14:49	6/18/24	WG	JB	x	x	x	x	x	x	x	x	x	x		
-05	MW-7A	10:15	6/18/24	WG	ER	x	x	x	x	x	x	x	x	x	x		
-06	MW-7B	12:05	6/18/24	WG	ER	x	x	x	x	x	x	x	x	x	x		
-07	MW-7C	12:12	6/18/24	WG	JB	x	x	x	x	x	x	x	x	x	x		
-08	MW-8A	16:47	6/18/24	WG	JB	x	x	x	x	x	x	x	x	x	x		
-09	MW-8B	18:25	6/18/24	WG	ER	x	x	x	x	x	x	x	x	x	x		
-10	MW-9B	11:00	6/19/24	WG	ER	x	x	x	x	x	x	x	x	x	x		
	Container Type					V	A	A	A	P	P	P	P	P	P		
	Preservative					B	A	A	A	C	K	D	A	A	A		

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

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

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

Relinquished By:	Date/Time	Received By:	Date/Time
Jason Brisse	6/19/24 16:05	Chris Kinsman PACE	6/19/24 1605
Chris Kinsman PACE	6/19/24 1605		6/20/24 0900

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

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

NEW YORK CHAIN OF CUSTODY

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

Page 2 of 2

Date Rec'd in Lab: 6/20/24

ALPHA Job #: L2434679

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

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

Client Information

Client: Alpha Geoscience
Address: 679 Plank Road
Clifton Park, NY 12065
Phone: 518-348-6995
Fax:
Email: shulseapple@alphageoscience.co

Project Information

Project Name: Ranco Mine
Project Location: Manorville, NY
Project #: 12123
(Use Project name as Project #)
Project Manager: Scott Hulseapple
ALPHAQuote #:

Turn-Around Time

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

Deliverables

ASP-A x ASP-B
EQuIS (1 File) x EQuIS (NYSDEC v4)
Other

Regulatory Requirement

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

Billing Information

Matt Metz/Ranco
PO #

Disposal Site Information

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

These samples have been previously analyzed by Alpha

Other project specific requirements/comments:

MW-8B2 written on cap is correct. ~~MW-8B on label is incorrect~~
MW-9C is the same as MW-8B2. Report as MW-8B2

Please specify Metals or TAL.

ANALYSIS

Sample Filtration

Done
Lab to do
Preservation
Lab to do
(Please Specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	VOCs 8260 TCL	SVOCs 8270 TCL	Pest/PCBs 8081/8082	Herbicides 8151	Total & DissolvedTCL Metals	Sulfide	NO3/NO2, Tnlt, TKN, NH3	Cl, Br, F, SO4, Alk, TDS	Total Phosphate	Iodide	Sample Specific Comments	Total Bottles
34679-03	MS	6/18/24	14:50	WG	ER	X	X	X	X	X							
-03	MSD	6/18/24	14:50	WG	ER	X	X	X	X	X							
-11	DUP	6/18/24	—	WG	JB	X	X	X	X	X	X	X	X	X	X		
-12	EB	6/18/24	19:00	WQ	JB	X	X	X	X	X							
-13	TB	5/28/24	—	WQ	IS	X											
-14	MW-8B2	6/18/24	18:07	WG	JB	X	X	X	X	X	X	X	X	X	X		
Container Type						V	A	A	A	P	P	P	P	P	P		
Preservative						B	A	A	A	C	K	D	A	A	A		

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

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

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

Relinquished By:	Date/Time	Received By:	Date/Time
Jason Birkner	6/19/24 16:05	[signature] PALE	6/19/24 1605
[signature] PALE	6/19/24 1605	[signature]	6/20/24 0200

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

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

Organics

GC/MS 8260
Analysis

Volatiles QC Summary

Surrogate Recovery Summary
Form 2
Volatiles

Client: Alpha Geoscience
Project Name: RANCO MINE

Lab Number: L2434679
Project Number: 12123
Matrix:

CLIENT ID (LAB SAMPLE NO.)	SMC1 DCA	SMC2 TOL	SMC3 BFB	SMC4 DBFM	TOT OUT
MW-3A (L2434679-01)	102	102	105	107	0
MW-6A (L2434679-02)	104	101	105	108	0
MW-6B (L2434679-03)	103	101	107	107	0
MW-6C (L2434679-04)	103	99	104	108	0
MW-7A (L2434679-05)	102	101	106	107	0
MW-7B (L2434679-06)	103	99	102	109	0
MW-7C (L2434679-07)	102	101	107	107	0
MW-8A (L2434679-08)	94	100	112	98	0
MW-8B (L2434679-09)	96	102	112	93	0
MW-9B (L2434679-10)	97	102	113	95	0
DUP (L2434679-11)	97	101	114	95	0
EB (L2434679-12)	104	99	104	107	0
TB (L2434679-13)	104	101	104	109	0
MW-8B2 (L2434679-14)	97	100	114	97	0
WG1938519-3LCS	103	101	102	108	0
WG1938519-4LCSD	103	101	105	106	0
WG1938519-5BLANK	97	100	105	105	0
MW-6BMS	107	101	105	108	0
MW-6BMSD	107	101	104	109	0
WG1938990-3LCS	95	104	120	96	0
WG1938990-4LCSD	96	104	116	91	0
WG1938990-5BLANK	93	101	116	95	0

QC LIMITS

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

*** Values outside of QC limits**

FORM II NYTCL-8260-R2

Laboratory Control Sample Summary
Form 3
Volatiles

Client : Alpha Geoscience **Lab Number** : L2434679
Project Name : RANCO MINE **Project Number** : 12123
Matrix (Level) : WATER (LOW)
LCS Sample ID : WG1938519-3 **Analysis Date** : 06/23/24 11:28 **File ID** : V08240623A01
LCSD Sample ID : WG1938519-4 **Analysis Date** : 06/23/24 11:50 **File ID** : V08240623A02

	Laboratory Control Sample				Laboratory Control Duplicate					
Parameter	True (ug/l)	Found (ug/l)	%R		True (ug/l)	Found (ug/l)	%R	RPD	Recovery Limits	RPD Limit
Methylene chloride	10	9.6	96		10	10	100	4	70-130	20
1,1-Dichloroethane	10	9.0	90		10	9.7	97	7	70-130	20
Chloroform	10	9.5	95		10	10	100	5	70-130	20
Carbon tetrachloride	10	11	110		10	11	110	0	63-132	20
1,2-Dichloropropane	10	8.5	85		10	9.2	92	8	70-130	20
Dibromochloromethane	10	9.6	96		10	10	100	4	63-130	20
1,1,2-Trichloroethane	10	8.8	88		10	9.8	98	11	70-130	20
Tetrachloroethene	10	9.7	97		10	10	100	3	70-130	20
Chlorobenzene	10	9.7	97		10	11	110	13	75-130	20
Trichlorofluoromethane	10	7.3	73		10	7.8	78	7	62-150	20
1,2-Dichloroethane	10	8.9	89		10	9.7	97	9	70-130	20
1,1,1-Trichloroethane	10	10	100		10	11	110	10	67-130	20
Bromodichloromethane	10	9.3	93		10	10	100	7	67-130	20
trans-1,3-Dichloropropene	10	9.0	90		10	9.7	97	7	70-130	20
cis-1,3-Dichloropropene	10	8.9	89		10	9.8	98	10	70-130	20
Bromoform	10	9.8	98		10	11	110	12	54-136	20
1,1,2,2-Tetrachloroethane	10	9.4	94		10	10	100	6	67-130	20
Benzene	10	8.6	86		10	9.3	93	8	70-130	20
Toluene	10	9.0	90		10	9.7	97	7	70-130	20
Ethylbenzene	10	9.3	93		10	10	100	7	70-130	20
Chloromethane	10	9.9	99		10	10	100	1	64-130	20
Bromomethane	10	1.8	18	Q	10	1.9	19	Q	5	39-139	20
Vinyl chloride	10	6.7	67		10	7.1	71	6	55-140	20
Chloroethane	10	5.6	56		10	6.3	63	12	55-138	20
1,1-Dichloroethene	10	9.4	94		10	9.7	97	3	61-145	20
trans-1,2-Dichloroethene	10	9.5	95		10	10	100	5	70-130	20

Laboratory Control Sample Summary
Form 3
Volatiles

Client : Alpha Geoscience **Lab Number** : L2434679
Project Name : RANCO MINE **Project Number** : 12123
Matrix (Level) : WATER (LOW)
LCS Sample ID : WG1938519-3 **Analysis Date** : 06/23/24 11:28 **File ID** : V08240623A01
LCSD Sample ID : WG1938519-4 **Analysis Date** : 06/23/24 11:50 **File ID** : V08240623A02

	Laboratory Control Sample			Laboratory Control Duplicate					
Parameter	True (ug/l)	Found (ug/l)	%R	True (ug/l)	Found (ug/l)	%R	RPD	Recovery Limits	RPD Limit
Trichloroethene	10	9.7	97	10	10	100	3	70-130	20
1,2-Dichlorobenzene	10	9.9	99	10	11	110	11	70-130	20
1,3-Dichlorobenzene	10	9.8	98	10	11	110	12	70-130	20
1,4-Dichlorobenzene	10	9.9	99	10	11	110	11	70-130	20
Methyl tert butyl ether	10	8.4	84	10	9.3	93	10	63-130	20
p/m-Xylene	20	18	90	20	20	100	11	70-130	20
o-Xylene	20	18	90	20	19	95	5	70-130	20
cis-1,2-Dichloroethene	10	9.5	95	10	10	100	5	70-130	20
Styrene	20	18	90	20	19	95	5	70-130	20
Dichlorodifluoromethane	10	9.6	96	10	10	100	4	36-147	20
Acetone	10	10	100	10	11	110	10	58-148	20
Carbon disulfide	10	9.2	92	10	9.8	98	6	51-130	20
2-Butanone	10	8.0	80	10	9.0	90	12	63-138	20
4-Methyl-2-pentanone	10	7.4	74	10	8.6	86	15	59-130	20
2-Hexanone	10	7.0	70	10	8.0	80	13	57-130	20
Bromochloromethane	10	9.5	95	10	10	100	5	70-130	20
1,2-Dibromoethane	10	9.5	95	10	10	100	5	70-130	20
1,2-Dibromo-3-chloropropane	10	9.6	96	10	11	110	14	41-144	20
Isopropylbenzene	10	9.9	99	10	11	110	11	70-130	20
1,2,3-Trichlorobenzene	10	9.6	96	10	11	110	14	70-130	20
1,2,4-Trichlorobenzene	10	9.9	99	10	11	110	11	70-130	20
Methyl Acetate	10	8.0	80	10	8.8	88	10	70-130	20
Cyclohexane	10	7.9	79	10	8.5	85	7	70-130	20
1,4-Dioxane	500	520	104	500	580	116	11	56-162	20
Freon-113	10	9.9	99	10	10	100	1	70-130	20
Methyl cyclohexane	10	9.2	92	10	9.7	97	5	70-130	20

Laboratory Control Sample Summary
Form 3
Volatiles

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Matrix (Level)	: WATER (LOW)		
LCS Sample ID	: WG1938990-3	**Analysis Date** : 06/24/24 08:02	**File ID** : VG240624A01
LCSD Sample ID	: WG1938990-4	**Analysis Date** : 06/24/24 08:25	**File ID** : VG240624A02

	Laboratory Control Sample			Laboratory Control Duplicate					
Parameter	True (ug/l)	Found (ug/l)	%R	True (ug/l)	Found (ug/l)	%R	RPD	Recovery Limits	RPD Limit
Methylene chloride	10	9.4	94	10	10	100	6	70-130	20
1,1-Dichloroethane	10	10	100	10	11	110	10	70-130	20
Chloroform	10	9.5	95	10	9.9	99	4	70-130	20
Carbon tetrachloride	10	10	100	10	11	110	10	63-132	20
1,2-Dichloropropane	10	10	100	10	11	110	10	70-130	20
Dibromochloromethane	10	9.0	90	10	10	100	11	63-130	20
1,1,2-Trichloroethane	10	9.1	91	10	11	110	19	70-130	20
Tetrachloroethene	10	10	100	10	11	110	10	70-130	20
Chlorobenzene	10	9.6	96	10	10	100	4	75-130	20
Trichlorofluoromethane	10	9.5	95	10	9.3	93	2	62-150	20
1,2-Dichloroethane	10	8.8	88	10	10	100	13	70-130	20
1,1,1-Trichloroethane	10	10	100	10	11	110	10	67-130	20
Bromodichloromethane	10	9.1	91	10	10	100	9	67-130	20
trans-1,3-Dichloropropene	10	10	100	10	11	110	10	70-130	20
cis-1,3-Dichloropropene	10	9.6	96	10	11	110	14	70-130	20
Bromoform	10	8.5	85	10	9.8	98	14	54-136	20
1,1,2,2-Tetrachloroethane	10	11	110	10	13	130	17	67-130	20
Benzene	10	10	100	10	11	110	10	70-130	20
Toluene	10	10	100	10	11	110	10	70-130	20
Ethylbenzene	10	9.9	99	10	10	100	1	70-130	20
Chloromethane	10	10	100	10	8.9	89	12	64-130	20
Bromomethane	10	2.0	20 Q	10	2.1	21 Q	5	39-139	20
Vinyl chloride	10	8.0	80	10	7.8	78	3	55-140	20
Chloroethane	10	5.0	50 Q	10	5.1	51 Q	2	55-138	20
1,1-Dichloroethene	10	10	100	10	10	100	0	61-145	20
trans-1,2-Dichloroethene	10	9.9	99	10	10	100	1	70-130	20

Laboratory Control Sample Summary
Form 3
Volatiles

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Matrix (Level)	: WATER (LOW)		
LCS Sample ID	: WG1938990-3 **Analysis Date** : 06/24/24 08:02	**File ID**	: VG240624A01
LCSD Sample ID	: WG1938990-4 **Analysis Date** : 06/24/24 08:25	**File ID**	: VG240624A02

	Laboratory Control Sample			Laboratory Control Duplicate					
Parameter	True (ug/l)	Found (ug/l)	%R	True (ug/l)	Found (ug/l)	%R	RPD	Recovery Limits	RPD Limit
Trichloroethene	10	8.7	87	10	9.3	93	7	70-130	20
1,2-Dichlorobenzene	10	9.5	95	10	11	110	15	70-130	20
1,3-Dichlorobenzene	10	9.8	98	10	11	110	12	70-130	20
1,4-Dichlorobenzene	10	9.6	96	10	11	110	14	70-130	20
Methyl tert butyl ether	10	8.8	88	10	10	100	13	63-130	20
p/m-Xylene	20	18	90	20	20	100	11	70-130	20
o-Xylene	20	17	85	20	19	95	11	70-130	20
cis-1,2-Dichloroethene	10	9.6	96	10	10	100	4	70-130	20
Styrene	20	18	90	20	20	100	11	70-130	20
Dichlorodifluoromethane	10	10	100	10	9.8	98	2	36-147	20
Acetone	10	7.7	77	10	9.0	90	16	58-148	20
Carbon disulfide	10	11	110	10	10	100	10	51-130	20
2-Butanone	10	9.5	95	10	10	100	5	63-138	20
4-Methyl-2-pentanone	10	10	100	10	12	120	18	59-130	20
2-Hexanone	10	9.8	98	10	12	120	20	57-130	20
Bromochloromethane	10	8.9	89	10	9.7	97	9	70-130	20
1,2-Dibromoethane	10	9.3	93	10	11	110	17	70-130	20
1,2-Dibromo-3-chloropropane	10	8.4	84	10	10	100	17	41-144	20
Isopropylbenzene	10	10	100	10	11	110	10	70-130	20
1,2,3-Trichlorobenzene	10	8.3	83	10	10	100	19	70-130	20
1,2,4-Trichlorobenzene	10	9.0	90	10	10	100	11	70-130	20
Methyl Acetate	10	9.0	90	10	10	100	11	70-130	20
Cyclohexane	10	12	120	10	11	110	9	70-130	20
1,4-Dioxane	500	410	82	500	520	104	24 Q	56-162	20
Freon-113	10	10	100	10	10	100	0	70-130	20
Methyl cyclohexane	10	11	110	10	10	100	10	70-130	20

Matrix Spike Sample Summary
Form 3
Volatiles

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Client Sample ID	: MW-6B	**Matrix (Level)**	: WATER (LOW)
Lab Sample ID	: L2434679-03	**Analysis Date**	: 06/23/24 19:28
Matrix Spike	: WG1938519-6	**MS Analysis Date**	: 06/23/24 21:22
Matrix Spike Dup	: WG1938519-7	**MSD Analysis Date**	: 06/23/24 21:45

		Matrix Spike Sample				Matrix Spike Duplicate						
Parameter	Sample Conc. (ug/l)	Spike Added (ug/l)	Spike Conc. (ug/l)	%R		Spike Added (ug/l)	Spike Conc. (ug/l)	%R		RPD	Recovery Limits	RPD Limit
Methylene chloride	ND	10	8.6	86		10	10	100		15	70-130	20
1,1-Dichloroethane	ND	10	7.9	79		10	9.6	96		19	70-130	20
Chloroform	ND	10	8.4	84		10	10	100		17	70-130	20
Carbon tetrachloride	ND	10	9.0	90		10	11	110		20	63-132	20
1,2-Dichloropropane	ND	10	7.4	74		10	9.0	90		20	70-130	20
Dibromochloromethane	ND	10	8.1	81		10	9.8	98		19	63-130	20
1,1,2-Trichloroethane	ND	10	8.0	80		10	9.6	96		18	70-130	20
Tetrachloroethene	ND	10	7.2	72		10	8.5	85		17	70-130	20
Chlorobenzene	ND	10	7.9	79		10	9.4	94		17	75-130	20
Trichlorofluoromethane	ND	10	6.0	60	Q	10	7.3	73		20	62-150	20
1,2-Dichloroethane	ND	10	7.8	78		10	9.5	95		20	70-130	20
1,1,1-Trichloroethane	ND	10	8.8	88		10	10	100		13	67-130	20
Bromodichloromethane	ND	10	7.9	79		10	9.6	96		19	67-130	20
trans-1,3-Dichloropropene	ND	10	7.1	71		10	8.6	86		19	70-130	20
cis-1,3-Dichloropropene	ND	10	6.9	69	Q	10	8.3	83		18	70-130	20
Bromoform	ND	10	8.1	81		10	9.7	97		18	54-136	20
1,1,2,2-Tetrachloroethane	ND	10	8.7	87		10	10	100		14	67-130	20
Benzene	ND	10	7.5	75		10	9.0	90		18	70-130	20
Toluene	ND	10	7.5	75		10	9.0	90		18	70-130	20
Ethylbenzene	ND	10	7.4	74		10	8.9	89		18	70-130	20
Chloromethane	1.8J	10	8.8	88		10	11	110		22	Q 64-130	20
Bromomethane	ND	10	1.4J	14	Q	10	1.8J	18	Q	25	Q 39-139	20

Matrix Spike Sample Summary
Form 3
Volatiles

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Client Sample ID	: MW-6B	**Matrix (Level)**	: WATER (LOW)
Lab Sample ID	: L2434679-03	**Analysis Date**	: 06/23/24 19:28
Matrix Spike	: WG1938519-6	**MS Analysis Date**	: 06/23/24 21:22
Matrix Spike Dup	: WG1938519-7	**MSD Analysis Date**	: 06/23/24 21:45

		Matrix Spike Sample				Matrix Spike Duplicate						
Parameter	Sample Conc. (ug/l)	Spike Added (ug/l)	Spike Conc. (ug/l)	%R		Spike Added (ug/l)	Spike Conc. (ug/l)	%R	RPD		Recovery Limits	RPD Limit
Vinyl chloride	ND	10	5.6	56		10	6.8	68	19		55-140	20
Chloroethane	ND	10	4.5	45	Q	10	5.5	55	20		55-138	20
1,1-Dichloroethene	ND	10	7.6	76		10	9.8	98	25	Q	61-145	20
trans-1,2-Dichloroethene	ND	10	8.1	81		10	9.8	98	19		70-130	20
Trichloroethene	ND	10	8.0	80		10	9.6	96	18		70-130	20
1,2-Dichlorobenzene	ND	10	7.8	78		10	9.4	94	19		70-130	20
1,3-Dichlorobenzene	ND	10	7.6	76		10	9.1	91	18		70-130	20
1,4-Dichlorobenzene	ND	10	7.6	76		10	9.2	92	19		70-130	20
Methyl tert butyl ether	ND	10	7.4	74		10	9.1	91	21	Q	63-130	20
p/m-Xylene	ND	20	14	70		20	17	85	19		70-130	20
o-Xylene	ND	20	14	70		20	17	85	19		70-130	20
cis-1,2-Dichloroethene	ND	10	8.0	80		10	9.8	98	20		70-130	20
Styrene	ND	20	14	70		20	17	85	19		70-130	20
Dichlorodifluoromethane	ND	10	7.7	77		10	9.6	96	22	Q	36-147	20
Acetone	ND	10	10	100		10	12	120	18		58-148	20
Carbon disulfide	ND	10	7.9	79		10	9.6	96	19		51-130	20
2-Butanone	ND	10	7.8	78		10	9.4	94	19		63-138	20
4-Methyl-2-pentanone	ND	10	6.4	64		10	8.1	81	23	Q	59-130	20
2-Hexanone	ND	10	6.1	61		10	7.4	74	19		57-130	20
Bromochloromethane	ND	10	7.8	78		10	9.6	96	21	Q	70-130	20
1,2-Dibromoethane	ND	10	8.2	82		10	9.9	99	19		70-130	20
1,2-Dibromo-3-chloropropane	ND	10	8.9	89		10	11	110	21	Q	41-144	20

Matrix Spike Sample Summary
Form 3
Volatiles

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Client Sample ID	: MW-6B	**Matrix (Level)**	: WATER (LOW)
Lab Sample ID	: L2434679-03	**Analysis Date**	: 06/23/24 19:28
Matrix Spike	: WG1938519-6	**MS Analysis Date**	: 06/23/24 21:22
Matrix Spike Dup	: WG1938519-7	**MSD Analysis Date**	: 06/23/24 21:45

		Matrix Spike Sample				Matrix Spike Duplicate						
Parameter	**Sample Conc. (ug/l)**	**Spike Added (ug/l)**	**Spike Conc. (ug/l)**	**%R**		**Spike Added (ug/l)**	**Spike Conc. (ug/l)**	**%R**		**RPD**	**Recovery Limits**	**RPD Limit**
Isopropylbenzene	ND	10	7.5	75		10	8.9	89		17	70-130	20
1,2,3-Trichlorobenzene	ND	10	7.7	77		10	9.5	95		21 Q	70-130	20
1,2,4-Trichlorobenzene	ND	10	7.5	75		10	9.0	90		18	70-130	20
Methyl Acetate	ND	10	7.0	70		10	8.1	81		15	70-130	20
Cyclohexane	ND	10	5.8J	58	Q	10	6.9J	69	Q	17	70-130	20
1,4-Dioxane	ND	500	470	94		500	580	116		21 Q	56-162	20
Freon-113	ND	10	7.7	77		10	9.2	92		18	70-130	20
Methyl cyclohexane	ND	10	6.4J	64	Q	10	7.4J	74		14	70-130	20

Method Blank Summary
Form 4
Volatiles

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Lab Sample ID	: WG1938519-5	**Lab File ID**	: V08240623A06
Instrument ID	: VOA108		
Matrix	: WATER	**Analysis Date**	: 06/23/24 13:21

Client Sample No.	Lab Sample ID	Analysis Date
WG1938519-3LCS	WG1938519-3	06/23/24 11:28
WG1938519-4LCSD	WG1938519-4	06/23/24 11:50
EB	L2434679-12	06/23/24 17:56
TB	L2434679-13	06/23/24 18:19
MW-3A	L2434679-01	06/23/24 18:42
MW-6A	L2434679-02	06/23/24 19:05
MW-6B	L2434679-03	06/23/24 19:28
MW-6C	L2434679-04	06/23/24 19:51
MW-7A	L2434679-05	06/23/24 20:14
MW-7B	L2434679-06	06/23/24 20:37
MW-7C	L2434679-07	06/23/24 20:59
MW-6BMS	WG1938519-6	06/23/24 21:22
MW-6BMSD	WG1938519-7	06/23/24 21:45

Method Blank Summary
Form 4
Volatiles

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Lab Sample ID	: WG1938990-5	**Lab File ID**	: VG240624A05
Instrument ID	: GONZO		
Matrix	: WATER	**Analysis Date**	: 06/24/24 09:37

Client Sample No.	Lab Sample ID	Analysis Date
WG1938990-3LCS	WG1938990-3	06/24/24 08:02
WG1938990-4LCSD	WG1938990-4	06/24/24 08:25
MW-8A	L2434679-08	06/24/24 10:50
MW-8B	L2434679-09	06/24/24 11:14
MW-9B	L2434679-10	06/24/24 11:38
DUP	L2434679-11	06/24/24 12:02
MW-8B2	L2434679-14	06/24/24 12:26

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

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Instrument ID	: GONZO	**Analysis Date**	: 05/09/24 16:44
Tune Standard	: WG1919586-1	**Tune File ID**	: VG240509ABF2_tune

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

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

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

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

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

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Instrument ID	: GONZO	**Analysis Date**	: 06/24/24 07:47
Tune Standard	: WG1938990-1	**Tune File ID**	: VG240624ABF1_tune

m/e	Ion Abundance Criteria	%Relative Abundance
50	15.0 - 40.0% of mass 95	19.7
75	30.0 - 80.0% of mass 95	49.5
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.7
173	Less than 2.0% of mass 174	0.6 (.7)1
174	Greater than 50.0% of mass 95	75.5
175	5.0 - 9.0% of mass 174	5.3 (7)1
176	Greater than 95.0% but less than 101% of mass	73.9 (97.8)1
177	5.0 - 9.0% of mass 176	4.9 (6.6)2

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

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

Client Sample ID	Lab Sample ID	File ID	Analysis Date/Time
WG1938990-2CCAL	WG1938990-2	VG240624A01	06/24/24 08:02
WG1938990-3LCS	WG1938990-3	VG240624A01	06/24/24 08:02
WG1938990-4LCSD	WG1938990-4	VG240624A02	06/24/24 08:25
WG1938990-5BLANK	WG1938990-5	VG240624A05	06/24/24 09:37
MW-8A	L2434679-08	VG240624A08	06/24/24 10:50
MW-8B	L2434679-09	VG240624A09	06/24/24 11:14
MW-9B	L2434679-10	VG240624A10	06/24/24 11:38
DUP	L2434679-11	VG240624A11	06/24/24 12:02
MW-8B2	L2434679-14	VG240624A12	06/24/24 12:26

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

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Instrument ID	: VOA108	**Analysis Date**	: 05/14/24 18:32
Tune Standard	: WG1921348-1	**Tune File ID**	: V08240514NBF1_tune

m/e	Ion Abundance Criteria	%Relative Abundance
50	15.0 - 40.0% of mass 95	21.6
75	30.0 - 80.0% of mass 95	52.5
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	7
173	Less than 2.0% of mass 174	0.8 (1)1
174	Greater than 50.0% of mass 95	79.7
175	5.0 - 9.0% of mass 174	6.4 (8)1
176	Greater than 95.0% but less than 101% of mass	77.9 (97.8)1
177	5.0 - 9.0% of mass 176	5.2 (6.6)2

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

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

Client Sample ID	Lab Sample ID	File ID	Analysis Date/Time
STD0.19PPB	R1828813-1	V08240514N03	05/14/24 19:49
STD0.5PPB	R1828813-2	V08240514N05	05/14/24 20:34
STD2PPB	R1828813-3	V08240514N07	05/14/24 21:18
STD10PPB	R1828813-5	V08240514N09	05/14/24 22:03
STD30PPB	R1828813-4	V08240514N10	05/14/24 22:26
STD80PPB	R1828813-6	V08240514N11	05/14/24 22:48
STD120PPB	R1828813-7	V08240514N12	05/14/24 23:10
STD200PPB	R1828813-8	V08240514N13	05/14/24 23:33
ICV Quant Report	R1828813-9	V08240514N18	05/15/24 01:24

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

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Instrument ID	: VOA108	**Analysis Date**	: 06/23/24 11:15
Tune Standard	: WG1938519-1	**Tune File ID**	: V08240623ABF1_tune

m/e	Ion Abundance Criteria	%Relative Abundance
50	15.0 - 40.0% of mass 95	20.4
75	30.0 - 80.0% of mass 95	53.1
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.9
173	Less than 2.0% of mass 174	0 (0)1
174	Greater than 50.0% of mass 95	80.7
175	5.0 - 9.0% of mass 174	5.9 (7.3)1
176	Greater than 95.0% but less than 101% of mass	77.4 (95.9)1
177	5.0 - 9.0% of mass 176	5.2 (6.7)2

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

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

Client Sample ID	Lab Sample ID	File ID	Analysis Date/Time
WG1938519-2CCAL	WG1938519-2	V08240623A01	06/23/24 11:28
WG1938519-3LCS	WG1938519-3	V08240623A01	06/23/24 11:28
WG1938519-4LCSD	WG1938519-4	V08240623A02	06/23/24 11:50
WG1938519-5BLANK	WG1938519-5	V08240623A06	06/23/24 13:21
EB	L2434679-12	V08240623A18	06/23/24 17:56
TB	L2434679-13	V08240623A19	06/23/24 18:19
MW-3A	L2434679-01	V08240623A20	06/23/24 18:42
MW-6A	L2434679-02	V08240623A21	06/23/24 19:05
MW-6B	L2434679-03	V08240623A22	06/23/24 19:28
MW-6C	L2434679-04	V08240623A23	06/23/24 19:51
MW-7A	L2434679-05	V08240623A24	06/23/24 20:14
MW-7B	L2434679-06	V08240623A25	06/23/24 20:37
MW-7C	L2434679-07	V08240623A26	06/23/24 20:59
WG1938519-6MS	WG1938519-6	V08240623A27	06/23/24 21:22
WG1938519-7MSD	WG1938519-7	V08240623A28	06/23/24 21:45

Internal Standard Area and RT Summary
Form 8a
Volatiles

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Instrument ID	: VOA108	**Analysis Date**	: 06/23/24 11:28:00
Sample No	: WG1938519-2	**Lab File ID**	: V08240623A01

	Fluorobenzene (IS)		Chlorobenzene-d5		1,4-Dichlorobenzene-D4	
	Area	RT	Area	RT	Area	RT
WG1938519-2	406145	6.05	302664	9.57	142503	12.26
Upper Limit	812290	6.55	605328	10.07	285006	12.76
Lower Limit	203073	5.55	151332	9.07	71252	11.76
Sample ID						
WG1938519-3 LCS	406145	6.05	302664	9.57	142503	12.26
WG1938519-4 LCSD	371760	6.05	278132	9.57	129461	12.26
WG1938519-5 BLANK	387103	6.05	290544	9.57	132793	12.26
EB	383858	6.05	289258	9.58	135007	12.27
TB	338225	6.06	254640	9.58	120122	12.27
MW-3A	327958	6.05	243200	9.58	109053	12.27
MW-6A	323915	6.05	242673	9.58	108963	12.27
MW-6B	378270	6.05	281112	9.57	126044	12.27
MW-6C	295621	6.05	224000	9.58	101573	12.27
MW-7A	336705	6.05	250829	9.57	112847	12.26
MW-7B	360779	6.05	272192	9.57	129383	12.27
MW-7C	389125	6.05	287978	9.58	128890	12.27
MW-6B MS	380915	6.05	286330	9.57	135580	12.26
MW-6B MSD	324448	6.05	244584	9.57	116334	12.26

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

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

* Values outside of QC limits

Internal Standard Area and RT Summary
Form 8a
Volatiles

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Instrument ID	: GONZO	**Analysis Date**	: 06/24/24 08:02:00
Sample No	: WG1938990-2	**Lab File ID**	: VG240624A01

	Fluorobenzene (IS)		Chlorobenzene-d5		1,4-Dichlorobenzene-D4	
	Area	RT	Area	RT	Area	RT
WG1938990-2	645622	6.09	484370	9.64	249984	12.32
Upper Limit	1291244	6.59	968740	10.14	499968	12.82
Lower Limit	322811	5.59	242185	9.14	124992	11.82
Sample ID						
WG1938990-3 LCS	645622	6.09	484370	9.64	249984	12.32
WG1938990-4 LCSD	563285	6.09	424595	9.64	223149	12.32
WG1938990-5 BLANK	507803	6.09	389208	9.65	201509	12.33
MW-8A	483860	6.09	366536	9.64	194606	12.33
MW-8B	477407	6.09	362210	9.64	192600	12.33
MW-9B	468666	6.09	352926	9.64	184074	12.33
DUP	435133	6.09	330166	9.64	170433	12.33
MW-8B2	434963	6.10	335845	9.65	175906	12.33

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

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

* Values outside of QC limits

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

Volatile Organics - EPA 8260D (WATER)

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

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

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

Volatile Organics - EPA 8260D (WATER)

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

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

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

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

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

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

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

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

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

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

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Lab ID	: L2434679-01	**Date Collected**	: 06/19/24 09:30
Client ID	: MW-3A	**Date Received**	: 06/19/24
Sample Location	: MANORVILLE, NY	**Date Analyzed**	: 06/23/24 18:42
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: PID
Lab File ID	: V08240623A20	**Instrument ID**	: VOA108
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

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

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Lab ID	: L2434679-01	**Date Collected**	: 06/19/24 09:30
Client ID	: MW-3A	**Date Received**	: 06/19/24
Sample Location	: MANORVILLE, NY	**Date Analyzed**	: 06/23/24 18:42
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: PID
Lab File ID	: V08240623A20	**Instrument ID**	: VOA108
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
156-60-5	trans-1,2-Dichloroethene	ND	2.5	0.70	U
79-01-6	Trichloroethene	ND	0.50	0.18	U
95-50-1	1,2-Dichlorobenzene	ND	2.5	0.70	U
541-73-1	1,3-Dichlorobenzene	ND	2.5	0.70	U
106-46-7	1,4-Dichlorobenzene	ND	2.5	0.70	U
1634-04-4	Methyl tert butyl ether	ND	2.5	0.17	U
179601-23-1	p/m-Xylene	ND	2.5	0.70	U
95-47-6	o-Xylene	ND	2.5	0.70	U
156-59-2	cis-1,2-Dichloroethene	ND	2.5	0.70	U
100-42-5	Styrene	ND	2.5	0.70	U
75-71-8	Dichlorodifluoromethane	ND	5.0	1.0	U
67-64-1	Acetone	ND	5.0	1.5	U
75-15-0	Carbon disulfide	ND	5.0	1.0	U
78-93-3	2-Butanone	ND	5.0	1.9	U
108-10-1	4-Methyl-2-pentanone	ND	5.0	1.0	U
591-78-6	2-Hexanone	ND	5.0	1.0	U
74-97-5	Bromochloromethane	ND	2.5	0.70	U
106-93-4	1,2-Dibromoethane	ND	2.0	0.65	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.5	0.70	U
98-82-8	Isopropylbenzene	ND	2.5	0.70	U
87-61-6	1,2,3-Trichlorobenzene	ND	2.5	0.70	U
120-82-1	1,2,4-Trichlorobenzene	ND	2.5	0.70	U
79-20-9	Methyl Acetate	ND	2.0	0.23	U
110-82-7	Cyclohexane	ND	10	0.27	U
123-91-1	1,4-Dioxane	ND	250	61.	U

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Lab ID	: L2434679-01	**Date Collected**	: 06/19/24 09:30
Client ID	: MW-3A	**Date Received**	: 06/19/24
Sample Location	: MANORVILLE, NY	**Date Analyzed**	: 06/23/24 18:42
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: PID
Lab File ID	: V08240623A20	**Instrument ID**	: VOA108
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

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

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Lab ID	: L2434679-02	**Date Collected**	: 06/18/24 16:35
Client ID	: MW-6A	**Date Received**	: 06/19/24
Sample Location	: MANORVILLE, NY	**Date Analyzed**	: 06/23/24 19:05
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: PID
Lab File ID	: V08240623A21	**Instrument ID**	: VOA108
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
75-09-2	Methylene chloride	ND	2.5	0.70	U
75-34-3	1,1-Dichloroethane	ND	2.5	0.70	U
67-66-3	Chloroform	ND	2.5	0.70	U
56-23-5	Carbon tetrachloride	ND	0.50	0.13	U
78-87-5	1,2-Dichloropropane	ND	1.0	0.14	U
124-48-1	Dibromochloromethane	ND	0.50	0.15	U
79-00-5	1,1,2-Trichloroethane	ND	1.5	0.50	U
127-18-4	Tetrachloroethene	ND	0.50	0.18	U
108-90-7	Chlorobenzene	ND	2.5	0.70	U
75-69-4	Trichlorofluoromethane	ND	2.5	0.70	U
107-06-2	1,2-Dichloroethane	ND	0.50	0.13	U
71-55-6	1,1,1-Trichloroethane	ND	2.5	0.70	U
75-27-4	Bromodichloromethane	ND	0.50	0.19	U
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.16	U
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.14	U
75-25-2	Bromoform	ND	2.0	0.65	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.17	U
71-43-2	Benzene	ND	0.50	0.16	U
108-88-3	Toluene	ND	2.5	0.70	U
100-41-4	Ethylbenzene	ND	2.5	0.70	U
74-87-3	Chloromethane	1.8	2.5	0.70	J
74-83-9	Bromomethane	ND	2.5	0.70	U
75-01-4	Vinyl chloride	ND	1.0	0.07	U
75-00-3	Chloroethane	ND	2.5	0.70	U
75-35-4	1,1-Dichloroethene	ND	0.50	0.17	U

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Lab ID	: L2434679-02	**Date Collected**	: 06/18/24 16:35
Client ID	: MW-6A	**Date Received**	: 06/19/24
Sample Location	: MANORVILLE, NY	**Date Analyzed**	: 06/23/24 19:05
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: PID
Lab File ID	: V08240623A21	**Instrument ID**	: VOA108
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
156-60-5	trans-1,2-Dichloroethene	ND	2.5	0.70	U
79-01-6	Trichloroethene	ND	0.50	0.18	U
95-50-1	1,2-Dichlorobenzene	ND	2.5	0.70	U
541-73-1	1,3-Dichlorobenzene	ND	2.5	0.70	U
106-46-7	1,4-Dichlorobenzene	ND	2.5	0.70	U
1634-04-4	Methyl tert butyl ether	ND	2.5	0.17	U
179601-23-1	p/m-Xylene	ND	2.5	0.70	U
95-47-6	o-Xylene	ND	2.5	0.70	U
156-59-2	cis-1,2-Dichloroethene	ND	2.5	0.70	U
100-42-5	Styrene	ND	2.5	0.70	U
75-71-8	Dichlorodifluoromethane	ND	5.0	1.0	U
67-64-1	Acetone	ND	5.0	1.5	U
75-15-0	Carbon disulfide	ND	5.0	1.0	U
78-93-3	2-Butanone	ND	5.0	1.9	U
108-10-1	4-Methyl-2-pentanone	ND	5.0	1.0	U
591-78-6	2-Hexanone	ND	5.0	1.0	U
74-97-5	Bromochloromethane	ND	2.5	0.70	U
106-93-4	1,2-Dibromoethane	ND	2.0	0.65	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.5	0.70	U
98-82-8	Isopropylbenzene	ND	2.5	0.70	U
87-61-6	1,2,3-Trichlorobenzene	ND	2.5	0.70	U
120-82-1	1,2,4-Trichlorobenzene	ND	2.5	0.70	U
79-20-9	Methyl Acetate	ND	2.0	0.23	U
110-82-7	Cyclohexane	ND	10	0.27	U
123-91-1	1,4-Dioxane	ND	250	61.	U

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Lab ID	: L2434679-02	**Date Collected**	: 06/18/24 16:35
Client ID	: MW-6A	**Date Received**	: 06/19/24
Sample Location	: MANORVILLE, NY	**Date Analyzed**	: 06/23/24 19:05
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: PID
Lab File ID	: V08240623A21	**Instrument ID**	: VOA108
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

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

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Lab ID	: L2434679-03	**Date Collected**	: 06/18/24 14:50
Client ID	: MW-6B	**Date Received**	: 06/19/24
Sample Location	: MANORVILLE, NY	**Date Analyzed**	: 06/23/24 19:28
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: PID
Lab File ID	: V08240623A22	**Instrument ID**	: VOA108
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
75-09-2	Methylene chloride	ND	2.5	0.70	U
75-34-3	1,1-Dichloroethane	ND	2.5	0.70	U
67-66-3	Chloroform	ND	2.5	0.70	U
56-23-5	Carbon tetrachloride	ND	0.50	0.13	U
78-87-5	1,2-Dichloropropane	ND	1.0	0.14	U
124-48-1	Dibromochloromethane	ND	0.50	0.15	U
79-00-5	1,1,2-Trichloroethane	ND	1.5	0.50	U
127-18-4	Tetrachloroethene	ND	0.50	0.18	U
108-90-7	Chlorobenzene	ND	2.5	0.70	U
75-69-4	Trichlorofluoromethane	ND	2.5	0.70	U
107-06-2	1,2-Dichloroethane	ND	0.50	0.13	U
71-55-6	1,1,1-Trichloroethane	ND	2.5	0.70	U
75-27-4	Bromodichloromethane	ND	0.50	0.19	U
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.16	U
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.14	U
75-25-2	Bromoform	ND	2.0	0.65	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.17	U
71-43-2	Benzene	ND	0.50	0.16	U
108-88-3	Toluene	ND	2.5	0.70	U
100-41-4	Ethylbenzene	ND	2.5	0.70	U
74-87-3	Chloromethane	1.8	2.5	0.70	J
74-83-9	Bromomethane	ND	2.5	0.70	U
75-01-4	Vinyl chloride	ND	1.0	0.07	U
75-00-3	Chloroethane	ND	2.5	0.70	U
75-35-4	1,1-Dichloroethene	ND	0.50	0.17	U

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Lab ID	: L2434679-03	**Date Collected**	: 06/18/24 14:50
Client ID	: MW-6B	**Date Received**	: 06/19/24
Sample Location	: MANORVILLE, NY	**Date Analyzed**	: 06/23/24 19:28
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: PID
Lab File ID	: V08240623A22	**Instrument ID**	: VOA108
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
156-60-5	trans-1,2-Dichloroethene	ND	2.5	0.70	U
79-01-6	Trichloroethene	ND	0.50	0.18	U
95-50-1	1,2-Dichlorobenzene	ND	2.5	0.70	U
541-73-1	1,3-Dichlorobenzene	ND	2.5	0.70	U
106-46-7	1,4-Dichlorobenzene	ND	2.5	0.70	U
1634-04-4	Methyl tert butyl ether	ND	2.5	0.17	U
179601-23-1	p/m-Xylene	ND	2.5	0.70	U
95-47-6	o-Xylene	ND	2.5	0.70	U
156-59-2	cis-1,2-Dichloroethene	ND	2.5	0.70	U
100-42-5	Styrene	ND	2.5	0.70	U
75-71-8	Dichlorodifluoromethane	ND	5.0	1.0	U
67-64-1	Acetone	ND	5.0	1.5	U
75-15-0	Carbon disulfide	ND	5.0	1.0	U
78-93-3	2-Butanone	ND	5.0	1.9	U
108-10-1	4-Methyl-2-pentanone	ND	5.0	1.0	U
591-78-6	2-Hexanone	ND	5.0	1.0	U
74-97-5	Bromochloromethane	ND	2.5	0.70	U
106-93-4	1,2-Dibromoethane	ND	2.0	0.65	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.5	0.70	U
98-82-8	Isopropylbenzene	ND	2.5	0.70	U
87-61-6	1,2,3-Trichlorobenzene	ND	2.5	0.70	U
120-82-1	1,2,4-Trichlorobenzene	ND	2.5	0.70	U
79-20-9	Methyl Acetate	ND	2.0	0.23	U
110-82-7	Cyclohexane	ND	10	0.27	U
123-91-1	1,4-Dioxane	ND	250	61.	U

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Lab ID	: L2434679-03	**Date Collected**	: 06/18/24 14:50
Client ID	: MW-6B	**Date Received**	: 06/19/24
Sample Location	: MANORVILLE, NY	**Date Analyzed**	: 06/23/24 19:28
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: PID
Lab File ID	: V08240623A22	**Instrument ID**	: VOA108
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

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

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Lab ID	: L2434679-04	**Date Collected**	: 06/18/24 14:49
Client ID	: MW-6C	**Date Received**	: 06/19/24
Sample Location	: MANORVILLE, NY	**Date Analyzed**	: 06/23/24 19:51
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: PID
Lab File ID	: V08240623A23	**Instrument ID**	: VOA108
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
75-09-2	Methylene chloride	ND	2.5	0.70	U
75-34-3	1,1-Dichloroethane	ND	2.5	0.70	U
67-66-3	Chloroform	ND	2.5	0.70	U
56-23-5	Carbon tetrachloride	ND	0.50	0.13	U
78-87-5	1,2-Dichloropropane	ND	1.0	0.14	U
124-48-1	Dibromochloromethane	ND	0.50	0.15	U
79-00-5	1,1,2-Trichloroethane	ND	1.5	0.50	U
127-18-4	Tetrachloroethene	ND	0.50	0.18	U
108-90-7	Chlorobenzene	ND	2.5	0.70	U
75-69-4	Trichlorofluoromethane	ND	2.5	0.70	U
107-06-2	1,2-Dichloroethane	ND	0.50	0.13	U
71-55-6	1,1,1-Trichloroethane	ND	2.5	0.70	U
75-27-4	Bromodichloromethane	ND	0.50	0.19	U
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.16	U
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.14	U
75-25-2	Bromoform	ND	2.0	0.65	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.17	U
71-43-2	Benzene	ND	0.50	0.16	U
108-88-3	Toluene	ND	2.5	0.70	U
100-41-4	Ethylbenzene	ND	2.5	0.70	U
74-87-3	Chloromethane	1.8	2.5	0.70	J
74-83-9	Bromomethane	ND	2.5	0.70	U
75-01-4	Vinyl chloride	ND	1.0	0.07	U
75-00-3	Chloroethane	ND	2.5	0.70	U
75-35-4	1,1-Dichloroethene	ND	0.50	0.17	U

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Lab ID	: L2434679-04	**Date Collected**	: 06/18/24 14:49
Client ID	: MW-6C	**Date Received**	: 06/19/24
Sample Location	: MANORVILLE, NY	**Date Analyzed**	: 06/23/24 19:51
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: PID
Lab File ID	: V08240623A23	**Instrument ID**	: VOA108
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
156-60-5	trans-1,2-Dichloroethene	ND	2.5	0.70	U
79-01-6	Trichloroethene	ND	0.50	0.18	U
95-50-1	1,2-Dichlorobenzene	ND	2.5	0.70	U
541-73-1	1,3-Dichlorobenzene	ND	2.5	0.70	U
106-46-7	1,4-Dichlorobenzene	ND	2.5	0.70	U
1634-04-4	Methyl tert butyl ether	ND	2.5	0.17	U
179601-23-1	p/m-Xylene	ND	2.5	0.70	U
95-47-6	o-Xylene	ND	2.5	0.70	U
156-59-2	cis-1,2-Dichloroethene	ND	2.5	0.70	U
100-42-5	Styrene	ND	2.5	0.70	U
75-71-8	Dichlorodifluoromethane	ND	5.0	1.0	U
67-64-1	Acetone	ND	5.0	1.5	U
75-15-0	Carbon disulfide	ND	5.0	1.0	U
78-93-3	2-Butanone	ND	5.0	1.9	U
108-10-1	4-Methyl-2-pentanone	ND	5.0	1.0	U
591-78-6	2-Hexanone	ND	5.0	1.0	U
74-97-5	Bromochloromethane	ND	2.5	0.70	U
106-93-4	1,2-Dibromoethane	ND	2.0	0.65	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.5	0.70	U
98-82-8	Isopropylbenzene	ND	2.5	0.70	U
87-61-6	1,2,3-Trichlorobenzene	ND	2.5	0.70	U
120-82-1	1,2,4-Trichlorobenzene	ND	2.5	0.70	U
79-20-9	Methyl Acetate	ND	2.0	0.23	U
110-82-7	Cyclohexane	ND	10	0.27	U
123-91-1	1,4-Dioxane	ND	250	61.	U

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Lab ID	: L2434679-04	**Date Collected**	: 06/18/24 14:49
Client ID	: MW-6C	**Date Received**	: 06/19/24
Sample Location	: MANORVILLE, NY	**Date Analyzed**	: 06/23/24 19:51
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: PID
Lab File ID	: V08240623A23	**Instrument ID**	: VOA108
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

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

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Lab ID	: L2434679-05	**Date Collected**	: 06/18/24 10:15
Client ID	: MW-7A	**Date Received**	: 06/19/24
Sample Location	: MANORVILLE, NY	**Date Analyzed**	: 06/23/24 20:14
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: PID
Lab File ID	: V08240623A24	**Instrument ID**	: VOA108
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

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

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Lab ID	: L2434679-05	**Date Collected**	: 06/18/24 10:15
Client ID	: MW-7A	**Date Received**	: 06/19/24
Sample Location	: MANORVILLE, NY	**Date Analyzed**	: 06/23/24 20:14
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: PID
Lab File ID	: V08240623A24	**Instrument ID**	: VOA108
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
156-60-5	trans-1,2-Dichloroethene	ND	2.5	0.70	U
79-01-6	Trichloroethene	ND	0.50	0.18	U
95-50-1	1,2-Dichlorobenzene	ND	2.5	0.70	U
541-73-1	1,3-Dichlorobenzene	ND	2.5	0.70	U
106-46-7	1,4-Dichlorobenzene	ND	2.5	0.70	U
1634-04-4	Methyl tert butyl ether	ND	2.5	0.17	U
179601-23-1	p/m-Xylene	ND	2.5	0.70	U
95-47-6	o-Xylene	ND	2.5	0.70	U
156-59-2	cis-1,2-Dichloroethene	ND	2.5	0.70	U
100-42-5	Styrene	ND	2.5	0.70	U
75-71-8	Dichlorodifluoromethane	ND	5.0	1.0	U
67-64-1	Acetone	ND	5.0	1.5	U
75-15-0	Carbon disulfide	ND	5.0	1.0	U
78-93-3	2-Butanone	ND	5.0	1.9	U
108-10-1	4-Methyl-2-pentanone	ND	5.0	1.0	U
591-78-6	2-Hexanone	ND	5.0	1.0	U
74-97-5	Bromochloromethane	ND	2.5	0.70	U
106-93-4	1,2-Dibromoethane	ND	2.0	0.65	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.5	0.70	U
98-82-8	Isopropylbenzene	ND	2.5	0.70	U
87-61-6	1,2,3-Trichlorobenzene	ND	2.5	0.70	U
120-82-1	1,2,4-Trichlorobenzene	ND	2.5	0.70	U
79-20-9	Methyl Acetate	ND	2.0	0.23	U
110-82-7	Cyclohexane	ND	10	0.27	U
123-91-1	1,4-Dioxane	ND	250	61.	U

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Lab ID	: L2434679-05	**Date Collected**	: 06/18/24 10:15
Client ID	: MW-7A	**Date Received**	: 06/19/24
Sample Location	: MANORVILLE, NY	**Date Analyzed**	: 06/23/24 20:14
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: PID
Lab File ID	: V08240623A24	**Instrument ID**	: VOA108
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

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

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Lab ID	: L2434679-06	**Date Collected**	: 06/18/24 12:05
Client ID	: MW-7B	**Date Received**	: 06/19/24
Sample Location	: MANORVILLE, NY	**Date Analyzed**	: 06/23/24 20:37
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: PID
Lab File ID	: V08240623A25	**Instrument ID**	: VOA108
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

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

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Lab ID	: L2434679-06	**Date Collected**	: 06/18/24 12:05
Client ID	: MW-7B	**Date Received**	: 06/19/24
Sample Location	: MANORVILLE, NY	**Date Analyzed**	: 06/23/24 20:37
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: PID
Lab File ID	: V08240623A25	**Instrument ID**	: VOA108
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
156-60-5	trans-1,2-Dichloroethene	ND	2.5	0.70	U
79-01-6	Trichloroethene	ND	0.50	0.18	U
95-50-1	1,2-Dichlorobenzene	ND	2.5	0.70	U
541-73-1	1,3-Dichlorobenzene	ND	2.5	0.70	U
106-46-7	1,4-Dichlorobenzene	ND	2.5	0.70	U
1634-04-4	Methyl tert butyl ether	ND	2.5	0.17	U
179601-23-1	p/m-Xylene	ND	2.5	0.70	U
95-47-6	o-Xylene	ND	2.5	0.70	U
156-59-2	cis-1,2-Dichloroethene	ND	2.5	0.70	U
100-42-5	Styrene	ND	2.5	0.70	U
75-71-8	Dichlorodifluoromethane	ND	5.0	1.0	U
67-64-1	Acetone	ND	5.0	1.5	U
75-15-0	Carbon disulfide	ND	5.0	1.0	U
78-93-3	2-Butanone	ND	5.0	1.9	U
108-10-1	4-Methyl-2-pentanone	ND	5.0	1.0	U
591-78-6	2-Hexanone	ND	5.0	1.0	U
74-97-5	Bromochloromethane	ND	2.5	0.70	U
106-93-4	1,2-Dibromoethane	ND	2.0	0.65	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.5	0.70	U
98-82-8	Isopropylbenzene	ND	2.5	0.70	U
87-61-6	1,2,3-Trichlorobenzene	ND	2.5	0.70	U
120-82-1	1,2,4-Trichlorobenzene	ND	2.5	0.70	U
79-20-9	Methyl Acetate	ND	2.0	0.23	U
110-82-7	Cyclohexane	ND	10	0.27	U
123-91-1	1,4-Dioxane	ND	250	61.	U

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Lab ID	: L2434679-06	**Date Collected**	: 06/18/24 12:05
Client ID	: MW-7B	**Date Received**	: 06/19/24
Sample Location	: MANORVILLE, NY	**Date Analyzed**	: 06/23/24 20:37
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: PID
Lab File ID	: V08240623A25	**Instrument ID**	: VOA108
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

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

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Lab ID	: L2434679-07	**Date Collected**	: 06/18/24 12:12
Client ID	: MW-7C	**Date Received**	: 06/19/24
Sample Location	: MANORVILLE, NY	**Date Analyzed**	: 06/23/24 20:59
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: PID
Lab File ID	: V08240623A26	**Instrument ID**	: VOA108
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

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

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Lab ID	: L2434679-07	**Date Collected**	: 06/18/24 12:12
Client ID	: MW-7C	**Date Received**	: 06/19/24
Sample Location	: MANORVILLE, NY	**Date Analyzed**	: 06/23/24 20:59
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: PID
Lab File ID	: V08240623A26	**Instrument ID**	: VOA108
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
156-60-5	trans-1,2-Dichloroethene	ND	2.5	0.70	U
79-01-6	Trichloroethene	ND	0.50	0.18	U
95-50-1	1,2-Dichlorobenzene	ND	2.5	0.70	U
541-73-1	1,3-Dichlorobenzene	ND	2.5	0.70	U
106-46-7	1,4-Dichlorobenzene	ND	2.5	0.70	U
1634-04-4	Methyl tert butyl ether	ND	2.5	0.17	U
179601-23-1	p/m-Xylene	ND	2.5	0.70	U
95-47-6	o-Xylene	ND	2.5	0.70	U
156-59-2	cis-1,2-Dichloroethene	ND	2.5	0.70	U
100-42-5	Styrene	ND	2.5	0.70	U
75-71-8	Dichlorodifluoromethane	ND	5.0	1.0	U
67-64-1	Acetone	ND	5.0	1.5	U
75-15-0	Carbon disulfide	ND	5.0	1.0	U
78-93-3	2-Butanone	ND	5.0	1.9	U
108-10-1	4-Methyl-2-pentanone	ND	5.0	1.0	U
591-78-6	2-Hexanone	ND	5.0	1.0	U
74-97-5	Bromochloromethane	ND	2.5	0.70	U
106-93-4	1,2-Dibromoethane	ND	2.0	0.65	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.5	0.70	U
98-82-8	Isopropylbenzene	ND	2.5	0.70	U
87-61-6	1,2,3-Trichlorobenzene	ND	2.5	0.70	U
120-82-1	1,2,4-Trichlorobenzene	ND	2.5	0.70	U
79-20-9	Methyl Acetate	ND	2.0	0.23	U
110-82-7	Cyclohexane	ND	10	0.27	U
123-91-1	1,4-Dioxane	ND	250	61.	U

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Lab ID	: L2434679-07	**Date Collected**	: 06/18/24 12:12
Client ID	: MW-7C	**Date Received**	: 06/19/24
Sample Location	: MANORVILLE, NY	**Date Analyzed**	: 06/23/24 20:59
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: PID
Lab File ID	: V08240623A26	**Instrument ID**	: VOA108
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

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

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Lab ID	: L2434679-08	**Date Collected**	: 06/18/24 16:47
Client ID	: MW-8A	**Date Received**	: 06/19/24
Sample Location	: MANORVILLE, NY	**Date Analyzed**	: 06/24/24 10:50
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: PID
Lab File ID	: VG240624A08	**Instrument ID**	: GONZO
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

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

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Lab ID	: L2434679-08	**Date Collected**	: 06/18/24 16:47
Client ID	: MW-8A	**Date Received**	: 06/19/24
Sample Location	: MANORVILLE, NY	**Date Analyzed**	: 06/24/24 10:50
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: PID
Lab File ID	: VG240624A08	**Instrument ID**	: GONZO
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
156-60-5	trans-1,2-Dichloroethene	ND	2.5	0.70	U
79-01-6	Trichloroethene	ND	0.50	0.18	U
95-50-1	1,2-Dichlorobenzene	ND	2.5	0.70	U
541-73-1	1,3-Dichlorobenzene	ND	2.5	0.70	U
106-46-7	1,4-Dichlorobenzene	ND	2.5	0.70	U
1634-04-4	Methyl tert butyl ether	ND	2.5	0.17	U
179601-23-1	p/m-Xylene	ND	2.5	0.70	U
95-47-6	o-Xylene	ND	2.5	0.70	U
156-59-2	cis-1,2-Dichloroethene	ND	2.5	0.70	U
100-42-5	Styrene	ND	2.5	0.70	U
75-71-8	Dichlorodifluoromethane	ND	5.0	1.0	U
67-64-1	Acetone	ND	5.0	1.5	U
75-15-0	Carbon disulfide	ND	5.0	1.0	U
78-93-3	2-Butanone	ND	5.0	1.9	U
108-10-1	4-Methyl-2-pentanone	ND	5.0	1.0	U
591-78-6	2-Hexanone	ND	5.0	1.0	U
74-97-5	Bromochloromethane	ND	2.5	0.70	U
106-93-4	1,2-Dibromoethane	ND	2.0	0.65	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.5	0.70	U
98-82-8	Isopropylbenzene	ND	2.5	0.70	U
87-61-6	1,2,3-Trichlorobenzene	ND	2.5	0.70	U
120-82-1	1,2,4-Trichlorobenzene	ND	2.5	0.70	U
79-20-9	Methyl Acetate	ND	2.0	0.23	U
110-82-7	Cyclohexane	ND	10	0.27	U
123-91-1	1,4-Dioxane	ND	250	61.	U

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Lab ID	: L2434679-08	**Date Collected**	: 06/18/24 16:47
Client ID	: MW-8A	**Date Received**	: 06/19/24
Sample Location	: MANORVILLE, NY	**Date Analyzed**	: 06/24/24 10:50
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: PID
Lab File ID	: VG240624A08	**Instrument ID**	: GONZO
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

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

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Lab ID	: L2434679-09	**Date Collected**	: 06/18/24 18:25
Client ID	: MW-8B	**Date Received**	: 06/19/24
Sample Location	: MANORVILLE, NY	**Date Analyzed**	: 06/24/24 11:14
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: PID
Lab File ID	: VG240624A09	**Instrument ID**	: GONZO
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

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

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Lab ID	: L2434679-09	**Date Collected**	: 06/18/24 18:25
Client ID	: MW-8B	**Date Received**	: 06/19/24
Sample Location	: MANORVILLE, NY	**Date Analyzed**	: 06/24/24 11:14
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: PID
Lab File ID	: VG240624A09	**Instrument ID**	: GONZO
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
156-60-5	trans-1,2-Dichloroethene	ND	2.5	0.70	U
79-01-6	Trichloroethene	ND	0.50	0.18	U
95-50-1	1,2-Dichlorobenzene	ND	2.5	0.70	U
541-73-1	1,3-Dichlorobenzene	ND	2.5	0.70	U
106-46-7	1,4-Dichlorobenzene	ND	2.5	0.70	U
1634-04-4	Methyl tert butyl ether	ND	2.5	0.17	U
179601-23-1	p/m-Xylene	ND	2.5	0.70	U
95-47-6	o-Xylene	ND	2.5	0.70	U
156-59-2	cis-1,2-Dichloroethene	ND	2.5	0.70	U
100-42-5	Styrene	ND	2.5	0.70	U
75-71-8	Dichlorodifluoromethane	ND	5.0	1.0	U
67-64-1	Acetone	ND	5.0	1.5	U
75-15-0	Carbon disulfide	ND	5.0	1.0	U
78-93-3	2-Butanone	ND	5.0	1.9	U
108-10-1	4-Methyl-2-pentanone	ND	5.0	1.0	U
591-78-6	2-Hexanone	ND	5.0	1.0	U
74-97-5	Bromochloromethane	ND	2.5	0.70	U
106-93-4	1,2-Dibromoethane	ND	2.0	0.65	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.5	0.70	U
98-82-8	Isopropylbenzene	ND	2.5	0.70	U
87-61-6	1,2,3-Trichlorobenzene	ND	2.5	0.70	U
120-82-1	1,2,4-Trichlorobenzene	ND	2.5	0.70	U
79-20-9	Methyl Acetate	ND	2.0	0.23	U
110-82-7	Cyclohexane	ND	10	0.27	U
123-91-1	1,4-Dioxane	ND	250	61.	U

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Lab ID	: L2434679-09	**Date Collected**	: 06/18/24 18:25
Client ID	: MW-8B	**Date Received**	: 06/19/24
Sample Location	: MANORVILLE, NY	**Date Analyzed**	: 06/24/24 11:14
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: PID
Lab File ID	: VG240624A09	**Instrument ID**	: GONZO
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

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

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Lab ID	: L2434679-10	**Date Collected**	: 06/19/24 11:00
Client ID	: MW-9B	**Date Received**	: 06/19/24
Sample Location	: MANORVILLE, NY	**Date Analyzed**	: 06/24/24 11:38
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: PID
Lab File ID	: VG240624A10	**Instrument ID**	: GONZO
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

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

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Lab ID	: L2434679-10	**Date Collected**	: 06/19/24 11:00
Client ID	: MW-9B	**Date Received**	: 06/19/24
Sample Location	: MANORVILLE, NY	**Date Analyzed**	: 06/24/24 11:38
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: PID
Lab File ID	: VG240624A10	**Instrument ID**	: GONZO
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
156-60-5	trans-1,2-Dichloroethene	ND	2.5	0.70	U
79-01-6	Trichloroethene	ND	0.50	0.18	U
95-50-1	1,2-Dichlorobenzene	ND	2.5	0.70	U
541-73-1	1,3-Dichlorobenzene	ND	2.5	0.70	U
106-46-7	1,4-Dichlorobenzene	ND	2.5	0.70	U
1634-04-4	Methyl tert butyl ether	ND	2.5	0.17	U
179601-23-1	p/m-Xylene	ND	2.5	0.70	U
95-47-6	o-Xylene	ND	2.5	0.70	U
156-59-2	cis-1,2-Dichloroethene	ND	2.5	0.70	U
100-42-5	Styrene	ND	2.5	0.70	U
75-71-8	Dichlorodifluoromethane	ND	5.0	1.0	U
67-64-1	Acetone	ND	5.0	1.5	U
75-15-0	Carbon disulfide	ND	5.0	1.0	U
78-93-3	2-Butanone	ND	5.0	1.9	U
108-10-1	4-Methyl-2-pentanone	ND	5.0	1.0	U
591-78-6	2-Hexanone	ND	5.0	1.0	U
74-97-5	Bromochloromethane	ND	2.5	0.70	U
106-93-4	1,2-Dibromoethane	ND	2.0	0.65	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.5	0.70	U
98-82-8	Isopropylbenzene	ND	2.5	0.70	U
87-61-6	1,2,3-Trichlorobenzene	ND	2.5	0.70	U
120-82-1	1,2,4-Trichlorobenzene	ND	2.5	0.70	U
79-20-9	Methyl Acetate	ND	2.0	0.23	U
110-82-7	Cyclohexane	ND	10	0.27	U
123-91-1	1,4-Dioxane	ND	250	61.	U

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Lab ID	: L2434679-10	**Date Collected**	: 06/19/24 11:00
Client ID	: MW-9B	**Date Received**	: 06/19/24
Sample Location	: MANORVILLE, NY	**Date Analyzed**	: 06/24/24 11:38
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: PID
Lab File ID	: VG240624A10	**Instrument ID**	: GONZO
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

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

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Lab ID	: L2434679-11	**Date Collected**	: 06/18/24 00:00
Client ID	: DUP	**Date Received**	: 06/19/24
Sample Location	: MANORVILLE, NY	**Date Analyzed**	: 06/24/24 12:02
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: PID
Lab File ID	: VG240624A11	**Instrument ID**	: GONZO
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

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

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Lab ID	: L2434679-11	**Date Collected**	: 06/18/24 00:00
Client ID	: DUP	**Date Received**	: 06/19/24
Sample Location	: MANORVILLE, NY	**Date Analyzed**	: 06/24/24 12:02
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: PID
Lab File ID	: VG240624A11	**Instrument ID**	: GONZO
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
156-60-5	trans-1,2-Dichloroethene	ND	2.5	0.70	U
79-01-6	Trichloroethene	ND	0.50	0.18	U
95-50-1	1,2-Dichlorobenzene	ND	2.5	0.70	U
541-73-1	1,3-Dichlorobenzene	ND	2.5	0.70	U
106-46-7	1,4-Dichlorobenzene	ND	2.5	0.70	U
1634-04-4	Methyl tert butyl ether	ND	2.5	0.17	U
179601-23-1	p/m-Xylene	ND	2.5	0.70	U
95-47-6	o-Xylene	ND	2.5	0.70	U
156-59-2	cis-1,2-Dichloroethene	ND	2.5	0.70	U
100-42-5	Styrene	ND	2.5	0.70	U
75-71-8	Dichlorodifluoromethane	ND	5.0	1.0	U
67-64-1	Acetone	ND	5.0	1.5	U
75-15-0	Carbon disulfide	ND	5.0	1.0	U
78-93-3	2-Butanone	ND	5.0	1.9	U
108-10-1	4-Methyl-2-pentanone	ND	5.0	1.0	U
591-78-6	2-Hexanone	ND	5.0	1.0	U
74-97-5	Bromochloromethane	ND	2.5	0.70	U
106-93-4	1,2-Dibromoethane	ND	2.0	0.65	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.5	0.70	U
98-82-8	Isopropylbenzene	ND	2.5	0.70	U
87-61-6	1,2,3-Trichlorobenzene	ND	2.5	0.70	U
120-82-1	1,2,4-Trichlorobenzene	ND	2.5	0.70	U
79-20-9	Methyl Acetate	ND	2.0	0.23	U
110-82-7	Cyclohexane	ND	10	0.27	U
123-91-1	1,4-Dioxane	ND	250	61.	U

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Lab ID	: L2434679-11	**Date Collected**	: 06/18/24 00:00
Client ID	: DUP	**Date Received**	: 06/19/24
Sample Location	: MANORVILLE, NY	**Date Analyzed**	: 06/24/24 12:02
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: PID
Lab File ID	: VG240624A11	**Instrument ID**	: GONZO
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

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

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Lab ID	: L2434679-12	**Date Collected**	: 06/18/24 19:00
Client ID	: EB	**Date Received**	: 06/19/24
Sample Location	: MANORVILLE, NY	**Date Analyzed**	: 06/23/24 17:56
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: PID
Lab File ID	: V08240623A18	**Instrument ID**	: VOA108
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
75-09-2	Methylene chloride	ND	2.5	0.70	U
75-34-3	1,1-Dichloroethane	ND	2.5	0.70	U
67-66-3	Chloroform	ND	2.5	0.70	U
56-23-5	Carbon tetrachloride	ND	0.50	0.13	U
78-87-5	1,2-Dichloropropane	ND	1.0	0.14	U
124-48-1	Dibromochloromethane	ND	0.50	0.15	U
79-00-5	1,1,2-Trichloroethane	ND	1.5	0.50	U
127-18-4	Tetrachloroethene	ND	0.50	0.18	U
108-90-7	Chlorobenzene	ND	2.5	0.70	U
75-69-4	Trichlorofluoromethane	ND	2.5	0.70	U
107-06-2	1,2-Dichloroethane	ND	0.50	0.13	U
71-55-6	1,1,1-Trichloroethane	ND	2.5	0.70	U
75-27-4	Bromodichloromethane	ND	0.50	0.19	U
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.16	U
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.14	U
75-25-2	Bromoform	ND	2.0	0.65	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.17	U
71-43-2	Benzene	ND	0.50	0.16	U
108-88-3	Toluene	ND	2.5	0.70	U
100-41-4	Ethylbenzene	ND	2.5	0.70	U
74-87-3	Chloromethane	2.1	2.5	0.70	J
74-83-9	Bromomethane	ND	2.5	0.70	U
75-01-4	Vinyl chloride	ND	1.0	0.07	U
75-00-3	Chloroethane	ND	2.5	0.70	U
75-35-4	1,1-Dichloroethene	ND	0.50	0.17	U

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Lab ID	: L2434679-12	**Date Collected**	: 06/18/24 19:00
Client ID	: EB	**Date Received**	: 06/19/24
Sample Location	: MANORVILLE, NY	**Date Analyzed**	: 06/23/24 17:56
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: PID
Lab File ID	: V08240623A18	**Instrument ID**	: VOA108
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
156-60-5	trans-1,2-Dichloroethene	ND	2.5	0.70	U
79-01-6	Trichloroethene	ND	0.50	0.18	U
95-50-1	1,2-Dichlorobenzene	ND	2.5	0.70	U
541-73-1	1,3-Dichlorobenzene	ND	2.5	0.70	U
106-46-7	1,4-Dichlorobenzene	ND	2.5	0.70	U
1634-04-4	Methyl tert butyl ether	ND	2.5	0.17	U
179601-23-1	p/m-Xylene	ND	2.5	0.70	U
95-47-6	o-Xylene	ND	2.5	0.70	U
156-59-2	cis-1,2-Dichloroethene	ND	2.5	0.70	U
100-42-5	Styrene	ND	2.5	0.70	U
75-71-8	Dichlorodifluoromethane	ND	5.0	1.0	U
67-64-1	Acetone	ND	5.0	1.5	U
75-15-0	Carbon disulfide	ND	5.0	1.0	U
78-93-3	2-Butanone	ND	5.0	1.9	U
108-10-1	4-Methyl-2-pentanone	ND	5.0	1.0	U
591-78-6	2-Hexanone	ND	5.0	1.0	U
74-97-5	Bromochloromethane	ND	2.5	0.70	U
106-93-4	1,2-Dibromoethane	ND	2.0	0.65	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.5	0.70	U
98-82-8	Isopropylbenzene	ND	2.5	0.70	U
87-61-6	1,2,3-Trichlorobenzene	ND	2.5	0.70	U
120-82-1	1,2,4-Trichlorobenzene	ND	2.5	0.70	U
79-20-9	Methyl Acetate	ND	2.0	0.23	U
110-82-7	Cyclohexane	ND	10	0.27	U
123-91-1	1,4-Dioxane	ND	250	61.	U

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Lab ID	: L2434679-12	**Date Collected**	: 06/18/24 19:00
Client ID	: EB	**Date Received**	: 06/19/24
Sample Location	: MANORVILLE, NY	**Date Analyzed**	: 06/23/24 17:56
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: PID
Lab File ID	: V08240623A18	**Instrument ID**	: VOA108
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

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

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Lab ID	: L2434679-13	**Date Collected**	: 06/18/24 00:00
Client ID	: TB	**Date Received**	: 06/19/24
Sample Location	: MANORVILLE, NY	**Date Analyzed**	: 06/23/24 18:19
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: PID
Lab File ID	: V08240623A19	**Instrument ID**	: VOA108
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
75-09-2	Methylene chloride	ND	2.5	0.70	U
75-34-3	1,1-Dichloroethane	ND	2.5	0.70	U
67-66-3	Chloroform	ND	2.5	0.70	U
56-23-5	Carbon tetrachloride	ND	0.50	0.13	U
78-87-5	1,2-Dichloropropane	ND	1.0	0.14	U
124-48-1	Dibromochloromethane	ND	0.50	0.15	U
79-00-5	1,1,2-Trichloroethane	ND	1.5	0.50	U
127-18-4	Tetrachloroethene	ND	0.50	0.18	U
108-90-7	Chlorobenzene	ND	2.5	0.70	U
75-69-4	Trichlorofluoromethane	ND	2.5	0.70	U
107-06-2	1,2-Dichloroethane	ND	0.50	0.13	U
71-55-6	1,1,1-Trichloroethane	ND	2.5	0.70	U
75-27-4	Bromodichloromethane	ND	0.50	0.19	U
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.16	U
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.14	U
75-25-2	Bromoform	ND	2.0	0.65	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.17	U
71-43-2	Benzene	ND	0.50	0.16	U
108-88-3	Toluene	ND	2.5	0.70	U
100-41-4	Ethylbenzene	ND	2.5	0.70	U
74-87-3	Chloromethane	2.1	2.5	0.70	J
74-83-9	Bromomethane	ND	2.5	0.70	U
75-01-4	Vinyl chloride	ND	1.0	0.07	U
75-00-3	Chloroethane	ND	2.5	0.70	U
75-35-4	1,1-Dichloroethene	ND	0.50	0.17	U

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Lab ID	: L2434679-13	**Date Collected**	: 06/18/24 00:00
Client ID	: TB	**Date Received**	: 06/19/24
Sample Location	: MANORVILLE, NY	**Date Analyzed**	: 06/23/24 18:19
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: PID
Lab File ID	: V08240623A19	**Instrument ID**	: VOA108
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
156-60-5	trans-1,2-Dichloroethene	ND	2.5	0.70	U
79-01-6	Trichloroethene	ND	0.50	0.18	U
95-50-1	1,2-Dichlorobenzene	ND	2.5	0.70	U
541-73-1	1,3-Dichlorobenzene	ND	2.5	0.70	U
106-46-7	1,4-Dichlorobenzene	ND	2.5	0.70	U
1634-04-4	Methyl tert butyl ether	ND	2.5	0.17	U
179601-23-1	p/m-Xylene	ND	2.5	0.70	U
95-47-6	o-Xylene	ND	2.5	0.70	U
156-59-2	cis-1,2-Dichloroethene	ND	2.5	0.70	U
100-42-5	Styrene	ND	2.5	0.70	U
75-71-8	Dichlorodifluoromethane	ND	5.0	1.0	U
67-64-1	Acetone	2.4	5.0	1.5	J
75-15-0	Carbon disulfide	ND	5.0	1.0	U
78-93-3	2-Butanone	ND	5.0	1.9	U
108-10-1	4-Methyl-2-pentanone	ND	5.0	1.0	U
591-78-6	2-Hexanone	ND	5.0	1.0	U
74-97-5	Bromochloromethane	ND	2.5	0.70	U
106-93-4	1,2-Dibromoethane	ND	2.0	0.65	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.5	0.70	U
98-82-8	Isopropylbenzene	ND	2.5	0.70	U
87-61-6	1,2,3-Trichlorobenzene	ND	2.5	0.70	U
120-82-1	1,2,4-Trichlorobenzene	ND	2.5	0.70	U
79-20-9	Methyl Acetate	ND	2.0	0.23	U
110-82-7	Cyclohexane	ND	10	0.27	U
123-91-1	1,4-Dioxane	ND	250	61.	U

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Lab ID	: L2434679-13	**Date Collected**	: 06/18/24 00:00
Client ID	: TB	**Date Received**	: 06/19/24
Sample Location	: MANORVILLE, NY	**Date Analyzed**	: 06/23/24 18:19
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: PID
Lab File ID	: V08240623A19	**Instrument ID**	: VOA108
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

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

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Lab ID	: L2434679-14	**Date Collected**	: 06/18/24 18:07
Client ID	: MW-8B2	**Date Received**	: 06/19/24
Sample Location	: MANORVILLE, NY	**Date Analyzed**	: 06/24/24 12:26
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: PID
Lab File ID	: VG240624A12	**Instrument ID**	: GONZO
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

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

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Lab ID	: L2434679-14	**Date Collected**	: 06/18/24 18:07
Client ID	: MW-8B2	**Date Received**	: 06/19/24
Sample Location	: MANORVILLE, NY	**Date Analyzed**	: 06/24/24 12:26
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: PID
Lab File ID	: VG240624A12	**Instrument ID**	: GONZO
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
156-60-5	trans-1,2-Dichloroethene	ND	2.5	0.70	U
79-01-6	Trichloroethene	ND	0.50	0.18	U
95-50-1	1,2-Dichlorobenzene	ND	2.5	0.70	U
541-73-1	1,3-Dichlorobenzene	ND	2.5	0.70	U
106-46-7	1,4-Dichlorobenzene	ND	2.5	0.70	U
1634-04-4	Methyl tert butyl ether	ND	2.5	0.17	U
179601-23-1	p/m-Xylene	ND	2.5	0.70	U
95-47-6	o-Xylene	ND	2.5	0.70	U
156-59-2	cis-1,2-Dichloroethene	ND	2.5	0.70	U
100-42-5	Styrene	ND	2.5	0.70	U
75-71-8	Dichlorodifluoromethane	ND	5.0	1.0	U
67-64-1	Acetone	ND	5.0	1.5	U
75-15-0	Carbon disulfide	ND	5.0	1.0	U
78-93-3	2-Butanone	ND	5.0	1.9	U
108-10-1	4-Methyl-2-pentanone	ND	5.0	1.0	U
591-78-6	2-Hexanone	ND	5.0	1.0	U
74-97-5	Bromochloromethane	ND	2.5	0.70	U
106-93-4	1,2-Dibromoethane	ND	2.0	0.65	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.5	0.70	U
98-82-8	Isopropylbenzene	ND	2.5	0.70	U
87-61-6	1,2,3-Trichlorobenzene	ND	2.5	0.70	U
120-82-1	1,2,4-Trichlorobenzene	ND	2.5	0.70	U
79-20-9	Methyl Acetate	ND	2.0	0.23	U
110-82-7	Cyclohexane	ND	10	0.27	U
123-91-1	1,4-Dioxane	ND	250	61.	U

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Lab ID	: L2434679-14	**Date Collected**	: 06/18/24 18:07
Client ID	: MW-8B2	**Date Received**	: 06/19/24
Sample Location	: MANORVILLE, NY	**Date Analyzed**	: 06/24/24 12:26
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: PID
Lab File ID	: VG240624A12	**Instrument ID**	: GONZO
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

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

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Lab ID	: WG1938519-5	**Date Collected**	: NA
Client ID	: WG1938519-5BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 06/23/24 13:21
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: PID
Lab File ID	: V08240623A06	**Instrument ID**	: VOA108
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

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

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Lab ID	: WG1938519-5	**Date Collected**	: NA
Client ID	: WG1938519-5BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 06/23/24 13:21
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: PID
Lab File ID	: V08240623A06	**Instrument ID**	: VOA108
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
156-60-5	trans-1,2-Dichloroethene	ND	2.5	0.70	U
79-01-6	Trichloroethene	ND	0.50	0.18	U
95-50-1	1,2-Dichlorobenzene	ND	2.5	0.70	U
541-73-1	1,3-Dichlorobenzene	ND	2.5	0.70	U
106-46-7	1,4-Dichlorobenzene	ND	2.5	0.70	U
1634-04-4	Methyl tert butyl ether	ND	2.5	0.17	U
179601-23-1	p/m-Xylene	ND	2.5	0.70	U
95-47-6	o-Xylene	ND	2.5	0.70	U
156-59-2	cis-1,2-Dichloroethene	ND	2.5	0.70	U
100-42-5	Styrene	ND	2.5	0.70	U
75-71-8	Dichlorodifluoromethane	ND	5.0	1.0	U
67-64-1	Acetone	ND	5.0	1.5	U
75-15-0	Carbon disulfide	ND	5.0	1.0	U
78-93-3	2-Butanone	ND	5.0	1.9	U
108-10-1	4-Methyl-2-pentanone	ND	5.0	1.0	U
591-78-6	2-Hexanone	ND	5.0	1.0	U
74-97-5	Bromochloromethane	ND	2.5	0.70	U
106-93-4	1,2-Dibromoethane	ND	2.0	0.65	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.5	0.70	U
98-82-8	Isopropylbenzene	ND	2.5	0.70	U
87-61-6	1,2,3-Trichlorobenzene	ND	2.5	0.70	U
120-82-1	1,2,4-Trichlorobenzene	ND	2.5	0.70	U
79-20-9	Methyl Acetate	ND	2.0	0.23	U
110-82-7	Cyclohexane	ND	10	0.27	U
123-91-1	1,4-Dioxane	ND	250	61.	U

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Lab ID	: WG1938519-5	**Date Collected**	: NA
Client ID	: WG1938519-5BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 06/23/24 13:21
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: PID
Lab File ID	: V08240623A06	**Instrument ID**	: VOA108
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

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

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Lab ID	: WG1938990-5	**Date Collected**	: NA
Client ID	: WG1938990-5BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 06/24/24 09:37
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: PID
Lab File ID	: VG240624A05	**Instrument ID**	: GONZO
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

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

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Lab ID	: WG1938990-5	**Date Collected**	: NA
Client ID	: WG1938990-5BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 06/24/24 09:37
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: PID
Lab File ID	: VG240624A05	**Instrument ID**	: GONZO
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
156-60-5	trans-1,2-Dichloroethene	ND	2.5	0.70	U
79-01-6	Trichloroethene	ND	0.50	0.18	U
95-50-1	1,2-Dichlorobenzene	ND	2.5	0.70	U
541-73-1	1,3-Dichlorobenzene	ND	2.5	0.70	U
106-46-7	1,4-Dichlorobenzene	ND	2.5	0.70	U
1634-04-4	Methyl tert butyl ether	ND	2.5	0.17	U
179601-23-1	p/m-Xylene	ND	2.5	0.70	U
95-47-6	o-Xylene	ND	2.5	0.70	U
156-59-2	cis-1,2-Dichloroethene	ND	2.5	0.70	U
100-42-5	Styrene	ND	2.5	0.70	U
75-71-8	Dichlorodifluoromethane	ND	5.0	1.0	U
67-64-1	Acetone	ND	5.0	1.5	U
75-15-0	Carbon disulfide	ND	5.0	1.0	U
78-93-3	2-Butanone	ND	5.0	1.9	U
108-10-1	4-Methyl-2-pentanone	ND	5.0	1.0	U
591-78-6	2-Hexanone	ND	5.0	1.0	U
74-97-5	Bromochloromethane	ND	2.5	0.70	U
106-93-4	1,2-Dibromoethane	ND	2.0	0.65	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.5	0.70	U
98-82-8	Isopropylbenzene	ND	2.5	0.70	U
87-61-6	1,2,3-Trichlorobenzene	ND	2.5	0.70	U
120-82-1	1,2,4-Trichlorobenzene	ND	2.5	0.70	U
79-20-9	Methyl Acetate	ND	2.0	0.23	U
110-82-7	Cyclohexane	ND	10	0.27	U
123-91-1	1,4-Dioxane	ND	250	61.	U

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Lab ID	: WG1938990-5	**Date Collected**	: NA
Client ID	: WG1938990-5BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 06/24/24 09:37
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: PID
Lab File ID	: VG240624A05	**Instrument ID**	: GONZO
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

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

Quantitation Report (QT Reviewed)

Data Path : K:\VOA108\2024\240623A\
Data File : V08240623A18.d
Acq On : 23 Jun 2024 5:56 pm
Operator : VOA108:PID
Sample : L2434679-12,31,10,10,,A
Misc : WG1938519,ICAL21127
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Jun 24 11:13:35 2024
Quant Method : K:\VOA108\2024\240623A\V108_240514N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed May 15 09:35:21 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA108\2024\240623A\V08240623A01.d
Sub List : 8260-NY_R2 - NYSOM01.2 + NYSTARS

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	6.051	96	383858	10.000	ug/L	0.00
Standard Area 1 = 406145			Recovery = 94.51%			
59) Chlorobenzene-d5	9.575	117	289258	10.000	ug/L	0.00
Standard Area 1 = 302664			Recovery = 95.57%			
79) 1,4-Dichlorobenzene-d4	12.269	152	135007	10.000	ug/L	0.00
Standard Area 1 = 142503			Recovery = 94.74%			
System Monitoring Compounds						
36) Dibromofluoromethane	5.244	113	112858	10.722	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 107.22%			
43) 1,2-Dichloroethane-d4	5.768	65	122862	10.430	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 104.30%			
60) Toluene-d8	7.739	98	377528	9.943	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 99.43%			
83) 4-Bromofluorobenzene	11.064	95	133363	10.374	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 103.74%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	0.000		0	N.D.		
3) Chloromethane	1.862	50	19078	2.095	ug/L	94
4) Vinyl chloride	0.000		0	N.D.		
5) Bromomethane	2.260	94	1838	0.375	ug/L	93
6) Chloroethane	0.000		0	N.D.		
7) Trichlorofluoromethane	0.000		0	N.D.		
10) 1,1-Dichloroethene	0.000		0	N.D.		
11) Carbon disulfide	3.031	76	318	N.D.		
12) Freon-113	0.000		0	N.D.		
15) Methylene chloride	3.555	84	106	N.D.		
17) Acetone	3.597	43	1883	1.249	ug/L #	57
18) trans-1,2-Dichloroethene	0.000		0	N.D.		
19) Methyl acetate	0.000		0	N.D. d		
20) Methyl tert-butyl ether	0.000		0	N.D.		
23) 1,1-Dichloroethane	0.000		0	N.D.		
28) cis-1,2-Dichloroethene	0.000		0	N.D.		
30) Bromochloromethane	0.000		0	N.D.		
31) Cyclohexane	5.097	56	303	N.D.		
32) Chloroform	0.000		0	N.D.		
34) Carbon tetrachloride	0.000		0	N.D.		

Data Path : K:\VOA108\2024\240623A\
Data File : V08240623A18.d
Acq On : 23 Jun 2024 5:56 pm
Operator : VOA108:PID
Sample : L2434679-12,31,10,10,,A
Misc : WG1938519,ICAL21127
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Jun 24 11:13:35 2024
Quant Method : K:\VOA108\2024\240623A\V108_240514N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed May 15 09:35:21 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA108\2024\240623A\V08240623A01.d
Sub List : 8260-NY_R2 - NYSOM01.2 + NYSTARS

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
37)	1,1,1-Trichloroethane	0.000		0	N.D.		
39)	2-Butanone	0.000		0	N.D.	d	
41)	Benzene	0.000		0	N.D.		
44)	1,2-Dichloroethane	0.000		0	N.D.		
47)	Methyl cyclohexane	0.000		0	N.D.		
48)	Trichloroethene	0.000		0	N.D.		
51)	1,2-Dichloropropane	0.000		0	N.D.		
54)	Bromodichloromethane	0.000		0	N.D.		
57)	1,4-Dioxane	0.000		0	N.D.		
58)	cis-1,3-Dichloropropene	0.000		0	N.D.		
61)	Toluene	7.797	92	591	N.D.		
62)	4-Methyl-2-pentanone	0.000		0	N.D.		
63)	Tetrachloroethene	0.000		0	N.D.		
65)	trans-1,3-Dichloropropene	0.000		0	N.D.		
68)	1,1,2-Trichloroethane	0.000		0	N.D.		
69)	Chlorodibromomethane	0.000		0	N.D.		
71)	1,2-Dibromoethane	0.000		0	N.D.		
72)	2-Hexanone	0.000		0	N.D.		
73)	Chlorobenzene	0.000		0	N.D.		
74)	Ethylbenzene	9.643	91	58	N.D.		
76)	p/m Xylene	0.000		0	N.D.		
77)	o Xylene	0.000		0	N.D.		
78)	Styrene	0.000		0	N.D.		
80)	Bromoform	0.000		0	N.D.		
82)	Isopropylbenzene	0.000		0	N.D.		
87)	1,1,2,2-Tetrachloroethane	0.000		0	N.D.		
100)	1,3-Dichlorobenzene	12.285	146	180	N.D.		
101)	1,4-Dichlorobenzene	12.285	146	180	N.D.		
104)	1,2-Dichlorobenzene	0.000		0	N.D.		
106)	1,2-Dibromo-3-chloropr...	0.000		0	N.D.		
109)	1,2,4-Trichlorobenzene	14.104	180	48	N.D.		
111)	1,2,3-Trichlorobenzene	0.000		0	N.D.		

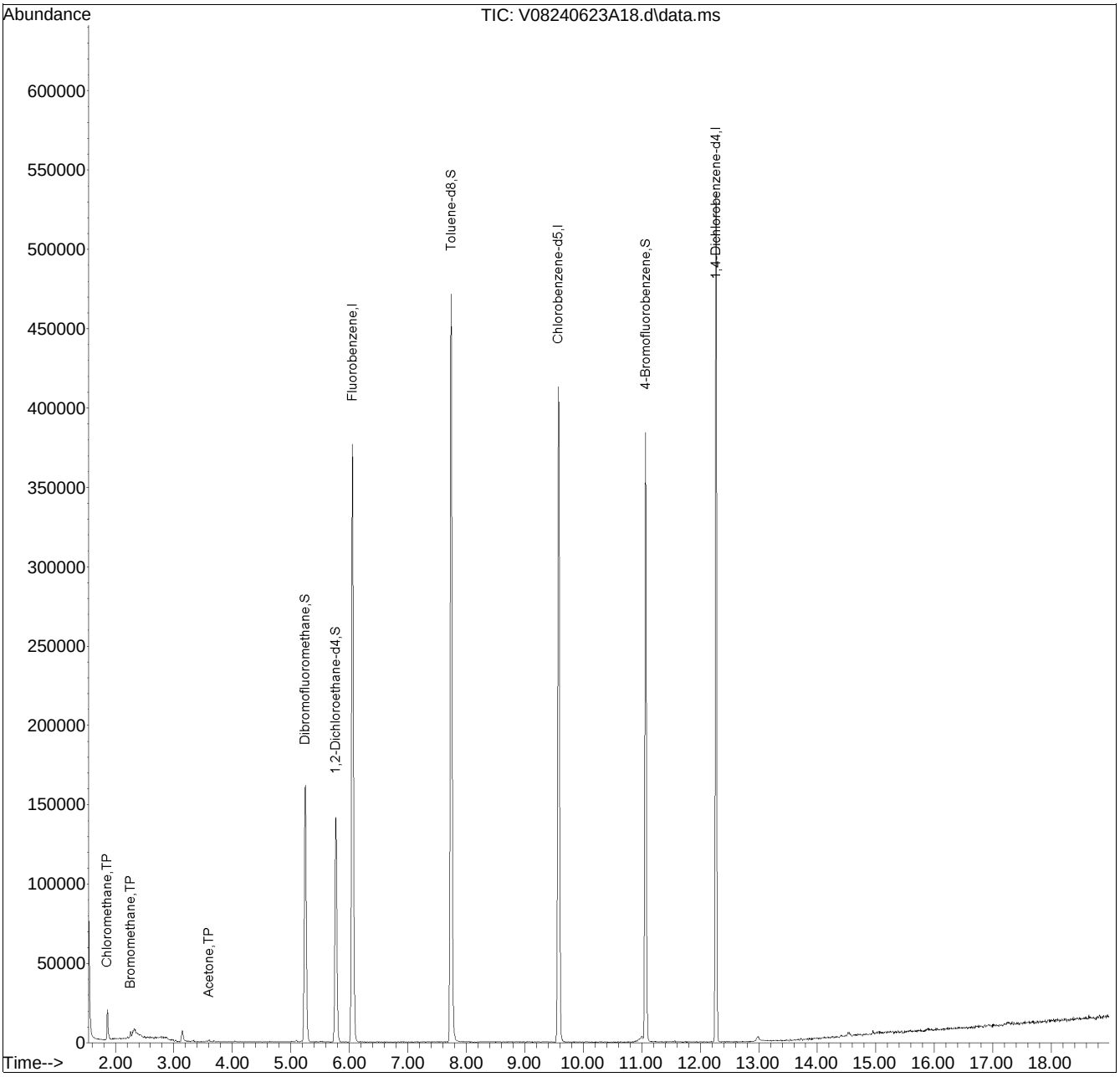
(#) = qualifier out of range (m) = manual integration (+) = signals summed

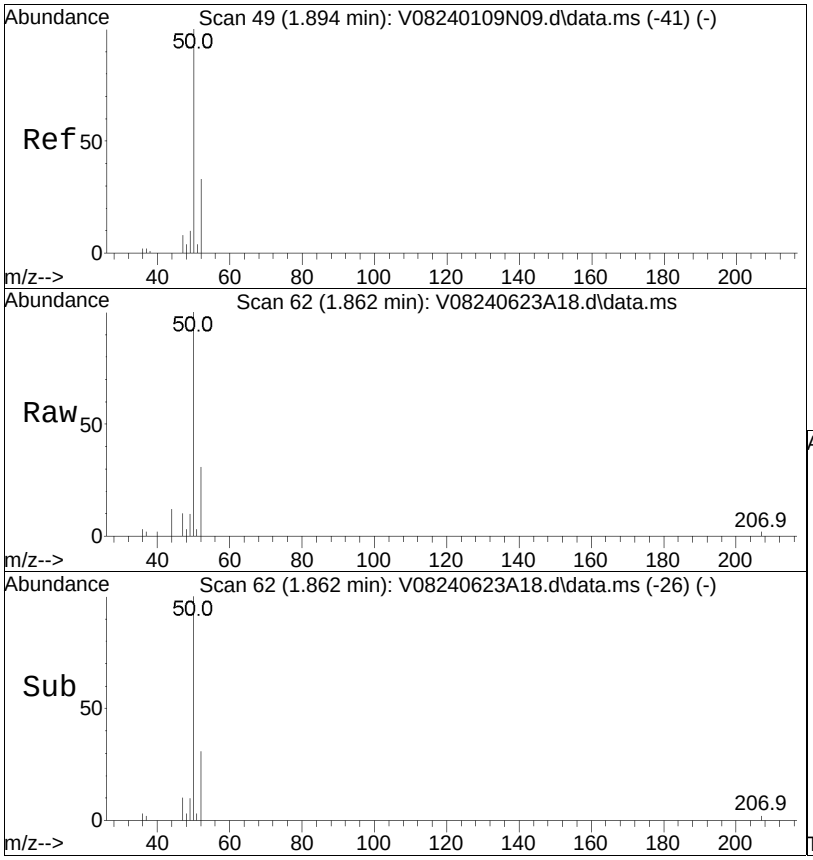
Quantitation Report (QT Reviewed)

Data Path : K:\VOA108\2024\240623A\
Data File : V08240623A18.d
Acq On : 23 Jun 2024 5:56 pm
Operator : VOA108:PID
Sample : L2434679-12,31,10,10,,A
Misc : WG1938519,ICAL21127
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Jun 24 11:13:35 2024
Quant Method : K:\VOA108\2024\240623A\V108_240514N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed May 15 09:35:21 2024
Response via : Initial Calibration

Sub List : 8260-NY_R2 - NYSOM01.2 + NYSTARS0623A01.d•

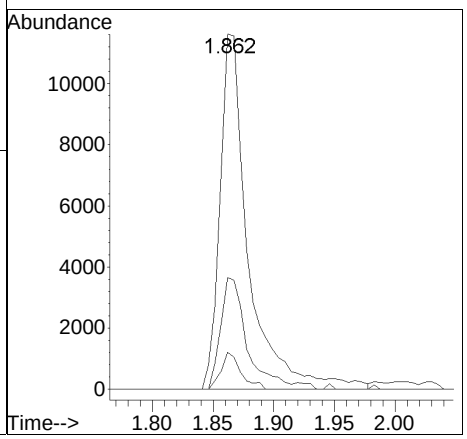


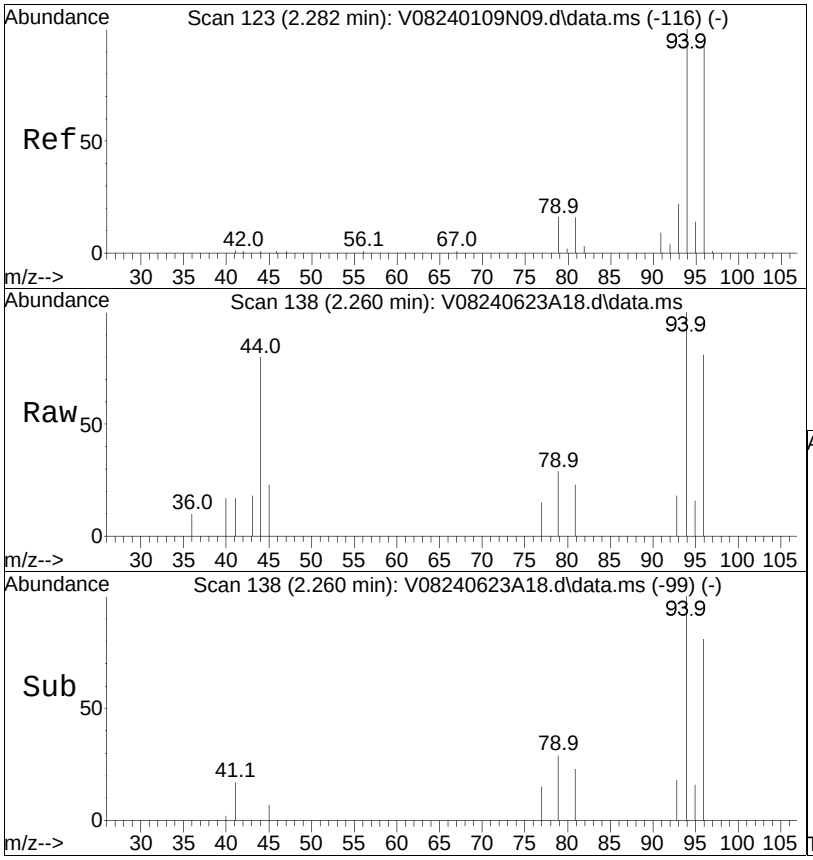


#3
Chloromethane
Concen: 2.09 ug/L
RT: 1.862 min Scan# 62
Delta R.T. -0.010 min
Lab File: V08240623A18.d
Acq: 23 Jun 2024 5:56 pm

Tgt Ion: 50 Resp: 19078

Ion	Ratio	Lower	Upper
50	100		
52	28.9	12.9	52.9
47	7.3	0.0	28.3

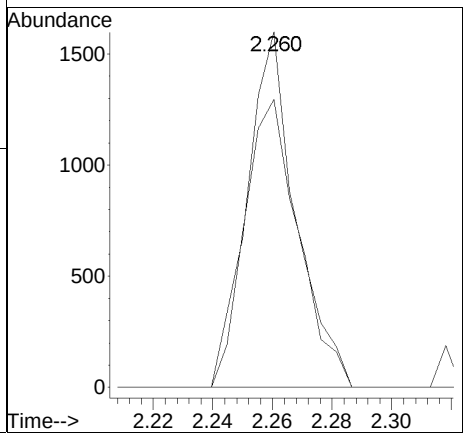


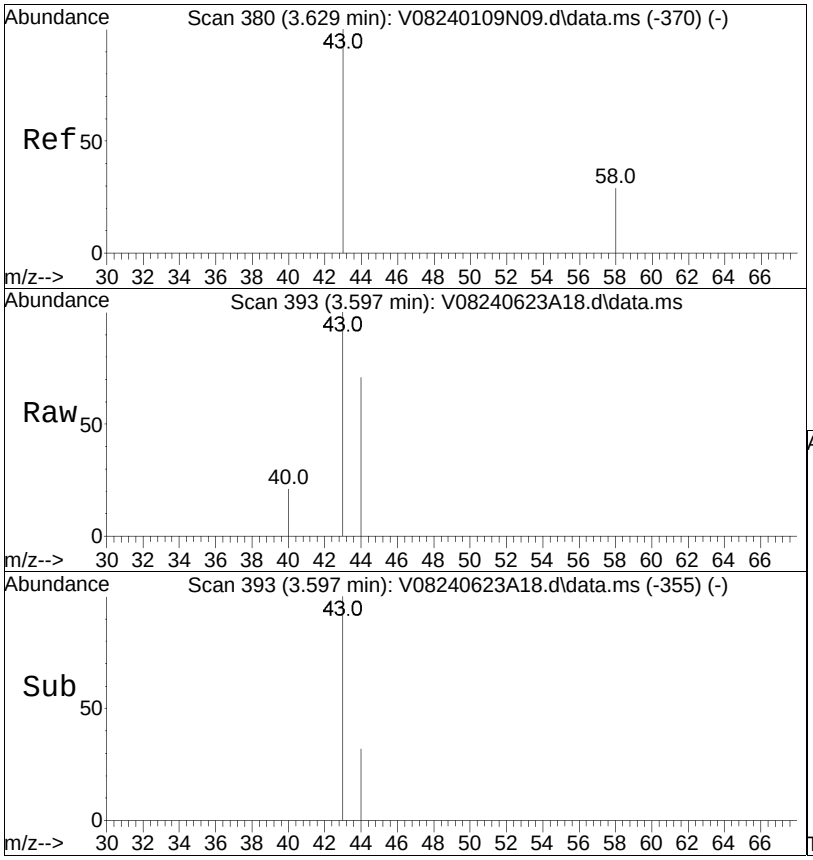


#5
Bromomethane
Concen: 0.38 ug/L
RT: 2.260 min Scan# 138
Delta R.T. 0.005 min
Lab File: V08240623A18.d
Acq: 23 Jun 2024 5:56 pm

Tgt Ion: 94 Resp: 1838

Ion	Ratio	Lower	Upper
94	100		
96	88.5	75.6	115.6

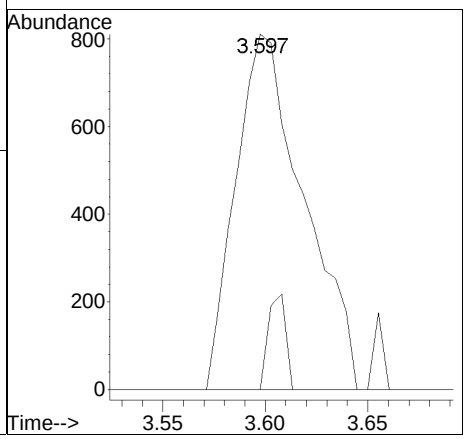




#17
Acetone
Concen: 1.25 ug/L
RT: 3.597 min Scan# 393
Delta R.T. 0.000 min
Lab File: V08240623A18.d
Acq: 23 Jun 2024 5:56 pm

Tgt Ion: 43 Resp: 1883

Ion	Ratio	Lower	Upper
43	100		
58	6.9	24.2	36.4#



Manual Integration Report

Data Path	: K:\VOA108\2024\240623A\	QMethod	: V108_240514N_8260.m
Data File	: V08240623A18.d	Operator	: VOA108:PID
Date Inj'd	: 6/23/2024 5:56 pm	Instrument	: VOA 108
Sample	: L2434679-12,31,10,10,,A	Quant Date	: 6/24/2024 11:05 am

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

Quantitation Report (QT Reviewed)

Data Path : K:\VOA108\2024\240623A\
Data File : V08240623A19.d
Acq On : 23 Jun 2024 6:19 pm
Operator : VOA108:PID
Sample : L2434679-13,31,10,10,,A
Misc : WG1938519,ICAL21127
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Jun 24 11:13:43 2024
Quant Method : K:\VOA108\2024\240623A\V108_240514N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed May 15 09:35:21 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA108\2024\240623A\V08240623A01.d
Sub List : 8260-NY_R2 - NYSOM01.2 + NYSTARS

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	6.056	96	338225	10.000	ug/L	0.00
Standard Area 1 = 406145			Recovery = 83.28%			
59) Chlorobenzene-d5	9.580	117	254640	10.000	ug/L	0.00
Standard Area 1 = 302664			Recovery = 84.13%			
79) 1,4-Dichlorobenzene-d4	12.269	152	120122	10.000	ug/L	0.00
Standard Area 1 = 142503			Recovery = 84.29%			
System Monitoring Compounds						
36) Dibromofluoromethane	5.244	113	100764	10.865	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 108.65%			
43) 1,2-Dichloroethane-d4	5.768	65	107881	10.394	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 103.94%			
60) Toluene-d8	7.739	98	338169	10.117	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 101.17%			
83) 4-Bromofluorobenzene	11.063	95	118487	10.359	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 103.59%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	0.000		0	N.D.		
3) Chloromethane	1.867	50	16761	2.089	ug/L	96
4) Vinyl chloride	2.093	62	51	N.D.		
5) Bromomethane	2.260	94	1459	0.338	ug/L	97
6) Chloroethane	0.000		0	N.D.		
7) Trichlorofluoromethane	0.000		0	N.D.		
10) 1,1-Dichloroethene	0.000		0	N.D.		
11) Carbon disulfide	3.036	76	260	N.D.		
12) Freon-113	0.000		0	N.D.		
15) Methylene chloride	3.561	84	179	N.D.		
17) Acetone	3.597	43	3265	2.457	ug/L #	87
18) trans-1,2-Dichloroethene	0.000		0	N.D.		
19) Methyl acetate	0.000		0	N.D. d		
20) Methyl tert-butyl ether	0.000		0	N.D.		
23) 1,1-Dichloroethane	0.000		0	N.D.		
28) cis-1,2-Dichloroethene	0.000		0	N.D.		
30) Bromochloromethane	0.000		0	N.D.		
31) Cyclohexane	5.102	56	280	N.D.		
32) Chloroform	0.000		0	N.D.		
34) Carbon tetrachloride	0.000		0	N.D.		

Data Path : K:\VOA108\2024\240623A\
Data File : V08240623A19.d
Acq On : 23 Jun 2024 6:19 pm
Operator : VOA108:PID
Sample : L2434679-13,31,10,10,,A
Misc : WG1938519,ICAL21127
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Jun 24 11:13:43 2024
Quant Method : K:\VOA108\2024\240623A\V108_240514N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed May 15 09:35:21 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA108\2024\240623A\V08240623A01.d
Sub List : 8260-NY_R2 - NYSOM01.2 + NYSTARS

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
37)	1,1,1-Trichloroethane	0.000		0		N.D.	
39)	2-Butanone	5.359	43	126		N.D.	
41)	Benzene	5.642	78	49		N.D.	
44)	1,2-Dichloroethane	0.000		0		N.D.	
47)	Methyl cyclohexane	0.000		0		N.D.	
48)	Trichloroethene	0.000		0		N.D.	
51)	1,2-Dichloropropane	0.000		0		N.D.	
54)	Bromodichloromethane	0.000		0		N.D.	
57)	1,4-Dioxane	0.000		0		N.D.	
58)	cis-1,3-Dichloropropene	0.000		0		N.D.	
61)	Toluene	7.802	92	262		N.D.	
62)	4-Methyl-2-pentanone	0.000		0		N.D.	
63)	Tetrachloroethene	0.000		0		N.D.	
65)	trans-1,3-Dichloropropene	0.000		0		N.D.	
68)	1,1,2-Trichloroethane	0.000		0		N.D.	
69)	Chlorodibromomethane	0.000		0		N.D.	
71)	1,2-Dibromoethane	0.000		0		N.D.	
72)	2-Hexanone	9.234	43	51		N.D.	
73)	Chlorobenzene	0.000		0		N.D.	
74)	Ethylbenzene	9.643	91	269		N.D.	
76)	p/m Xylene	9.826	106	272		N.D.	
77)	o Xylene	0.000		0		N.D.	
78)	Styrene	0.000		0		N.D.	
80)	Bromoform	0.000		0		N.D.	
82)	Isopropylbenzene	0.000		0		N.D.	
87)	1,1,2,2-Tetrachloroethane	0.000		0		N.D.	
100)	1,3-Dichlorobenzene	0.000		0		N.D.	
101)	1,4-Dichlorobenzene	0.000		0		N.D.	
104)	1,2-Dichlorobenzene	0.000		0		N.D.	
106)	1,2-Dibromo-3-chloropr...	0.000		0		N.D.	
109)	1,2,4-Trichlorobenzene	0.000		0		N.D.	
111)	1,2,3-Trichlorobenzene	0.000		0		N.D.	

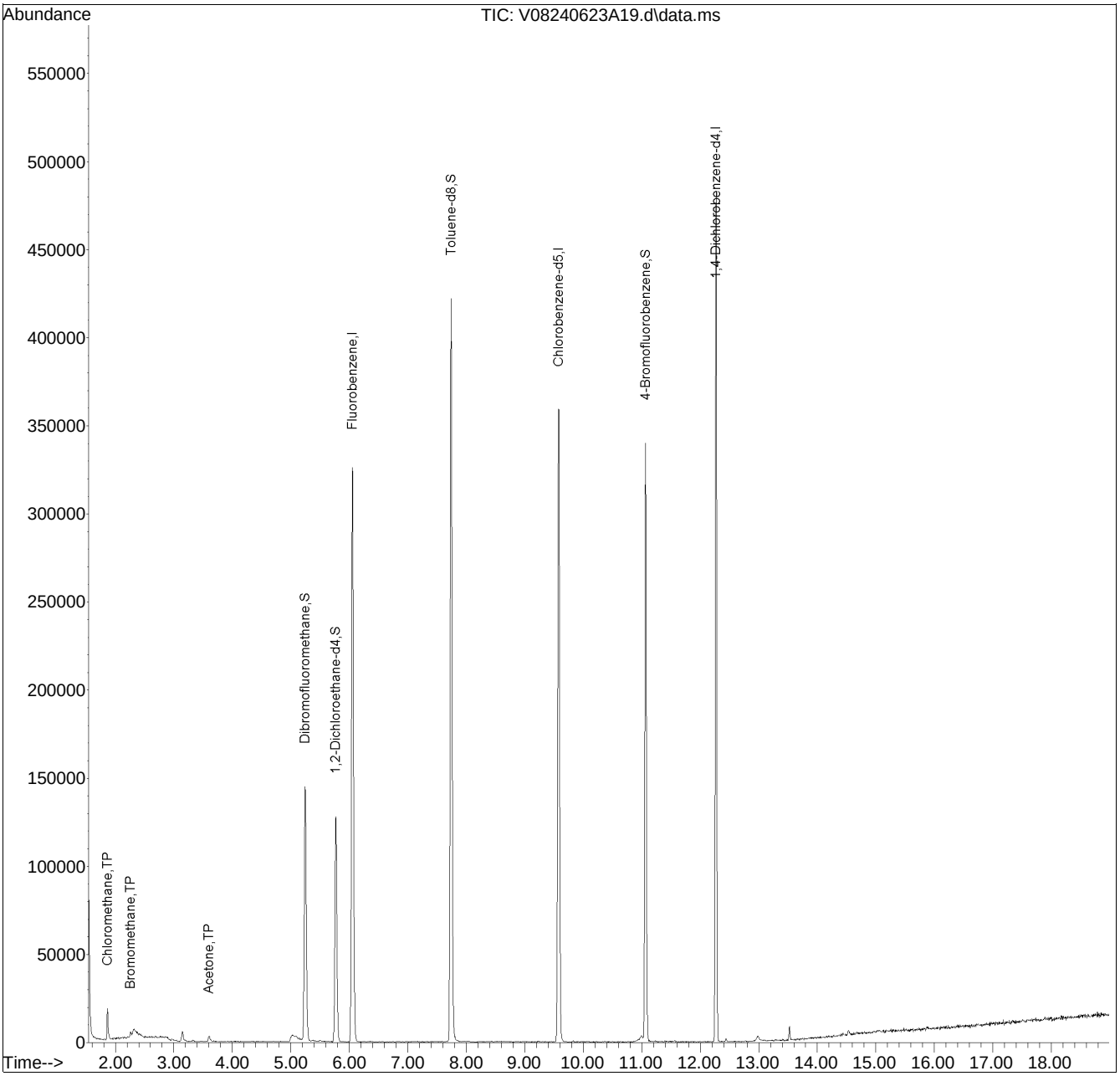
(#) = qualifier out of range (m) = manual integration (+) = signals summed

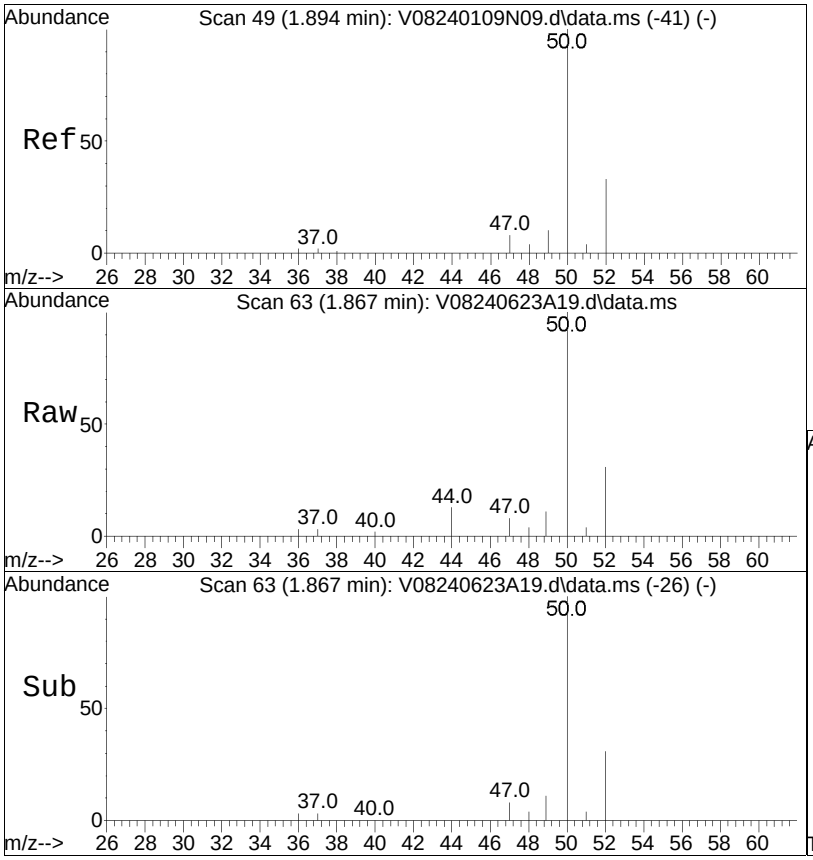
Quantitation Report (QT Reviewed)

Data Path : K:\VOA108\2024\240623A\
Data File : V08240623A19.d
Acq On : 23 Jun 2024 6:19 pm
Operator : VOA108:PID
Sample : L2434679-13,31,10,10,,A
Misc : WG1938519,ICAL21127
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Jun 24 11:13:43 2024
Quant Method : K:\VOA108\2024\240623A\V108_240514N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed May 15 09:35:21 2024
Response via : Initial Calibration

Sub List : 8260-NY_R2 - NYSOM01.2 + NYSTARS0623A01.d•

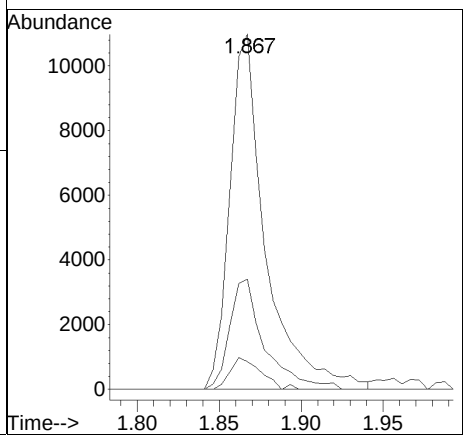


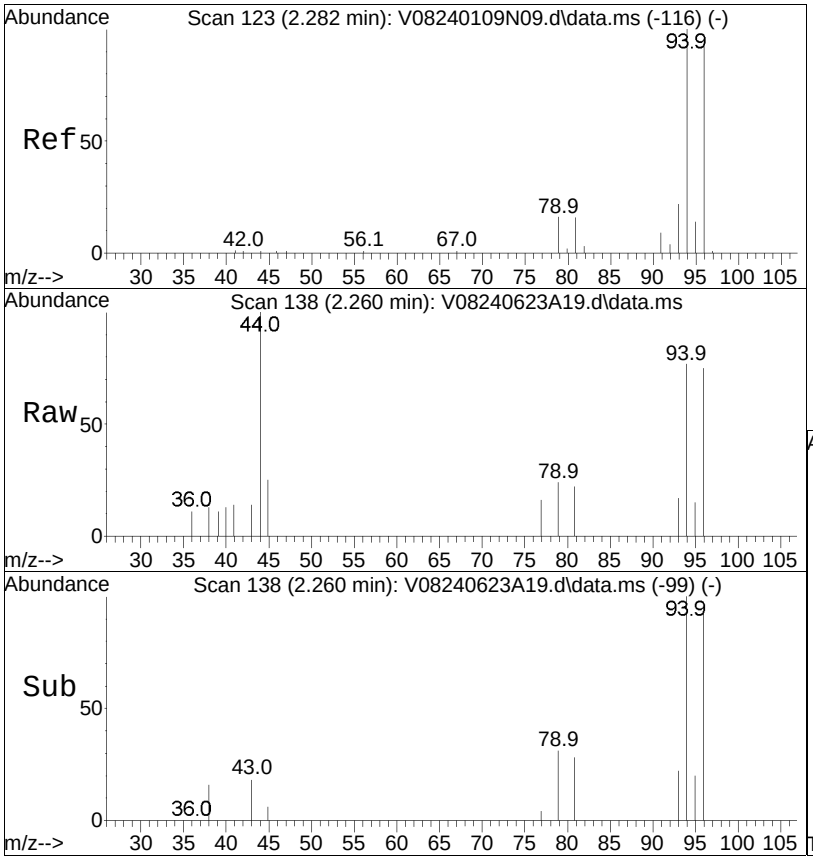


#3
Chloromethane
Concen: 2.09 ug/L
RT: 1.867 min Scan# 63
Delta R.T. -0.005 min
Lab File: V08240623A19.d
Acq: 23 Jun 2024 6:19 pm

Tgt Ion: 50 Resp: 16761

Ion	Ratio	Lower	Upper
50	100		
52	30.2	12.9	52.9
47	7.8	0.0	28.3

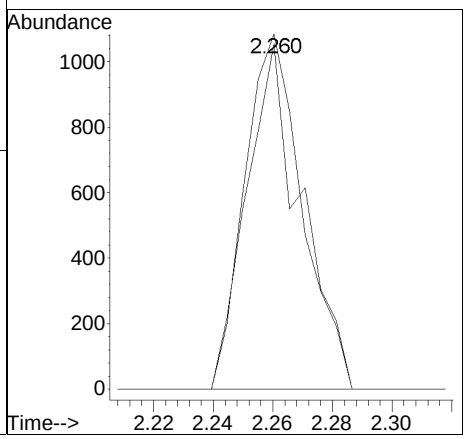


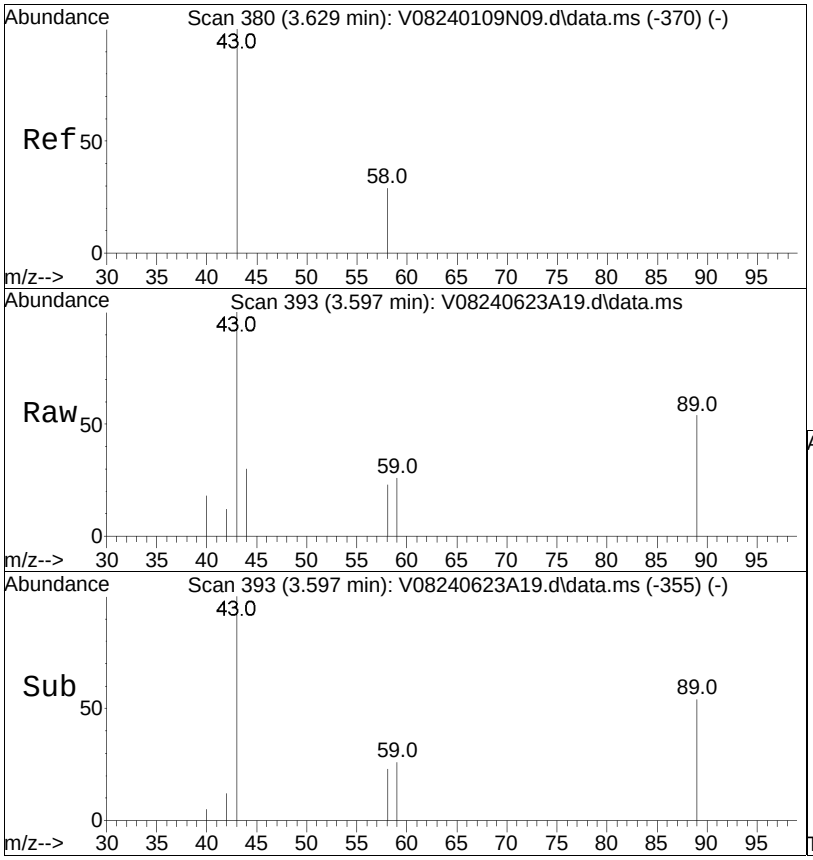


#5
Bromomethane
Concen: 0.34 ug/L
RT: 2.260 min Scan# 138
Delta R.T. 0.005 min
Lab File: V08240623A19.d
Acq: 23 Jun 2024 6:19 pm

Tgt Ion: 94 Resp: 1459

Ion	Ratio	Lower	Upper
94	100		
96	92.5	75.6	115.6

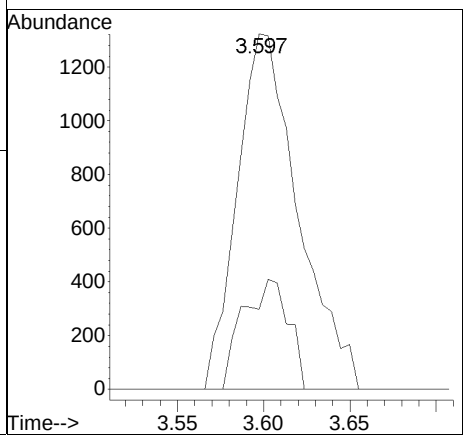




#17
Acetone
Concen: 2.46 ug/L
RT: 3.597 min Scan# 393
Delta R.T. 0.000 min
Lab File: V08240623A19.d
Acq: 23 Jun 2024 6:19 pm

Tgt Ion: 43 Resp: 3265

Ion	Ratio	Lower	Upper
43	100		
58	23.1	24.2	36.4#



Manual Integration Report

Data Path	: K:\VOA108\2024\240623A\	QMethod	: V108_240514N_8260.m
Data File	: V08240623A19.d	Operator	: VOA108:PID
Date Inj'd	: 6/23/2024 6:19 pm	Instrument	: VOA 108
Sample	: L2434679-13,31,10,10,,A	Quant Date	: 6/24/2024 11:05 am

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

Quantitation Report (QT Reviewed)

Data Path : K:\VOA108\2024\240623A\
Data File : V08240623A20.d
Acq On : 23 Jun 2024 6:42 pm
Operator : VOA108:PID
Sample : L2434679-01,31,10,10,,A
Misc : WG1938519,ICAL21127
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Jun 24 11:13:58 2024
Quant Method : K:\VOA108\2024\240623A\V108_240514N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed May 15 09:35:21 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA108\2024\240623A\V08240623A01.d
Sub List : 8260-NY_R2 - NYSOM01.2 + NYSTARS

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	6.051	96	327958	10.000	ug/L	0.00
Standard Area 1 = 406145			Recovery = 80.75%			
59) Chlorobenzene-d5	9.580	117	243200	10.000	ug/L	0.00
Standard Area 1 = 302664			Recovery = 80.35%			
79) 1,4-Dichlorobenzene-d4	12.269	152	109053	10.000	ug/L	0.00
Standard Area 1 = 142503			Recovery = 76.53%			
System Monitoring Compounds						
36) Dibromofluoromethane	5.249	113	96274	10.706	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 107.06%			
43) 1,2-Dichloroethane-d4	5.768	65	103144	10.249	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 102.49%			
60) Toluene-d8	7.739	98	324899	10.178	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 101.78%			
83) 4-Bromofluorobenzene	11.063	95	109066	10.503	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 105.03%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	0.000		0	N.D.		
3) Chloromethane	1.862	50	15377	1.976	ug/L	97
4) Vinyl chloride	2.077	62	48	N.D.		
5) Bromomethane	2.255	94	1304	0.312	ug/L	98
6) Chloroethane	0.000		0	N.D.		
7) Trichlorofluoromethane	0.000		0	N.D.		
10) 1,1-Dichloroethene	0.000		0	N.D.		
11) Carbon disulfide	3.031	76	169	N.D.		
12) Freon-113	0.000		0	N.D.		
15) Methylene chloride	3.550	84	159	N.D.		
17) Acetone	0.000		0	N.D. d		
18) trans-1,2-Dichloroethene	0.000		0	N.D.		
19) Methyl acetate	3.755	43	58	N.D.		
20) Methyl tert-butyl ether	0.000		0	N.D.		
23) 1,1-Dichloroethane	0.000		0	N.D.		
28) cis-1,2-Dichloroethene	0.000		0	N.D.		
30) Bromochloromethane	0.000		0	N.D.		
31) Cyclohexane	5.102	56	161	N.D.		
32) Chloroform	0.000		0	N.D.		
34) Carbon tetrachloride	0.000		0	N.D.		

Data Path : K:\VOA108\2024\240623A\
Data File : V08240623A20.d
Acq On : 23 Jun 2024 6:42 pm
Operator : VOA108:PID
Sample : L2434679-01,31,10,10,,A
Misc : WG1938519,ICAL21127
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Jun 24 11:13:58 2024
Quant Method : K:\VOA108\2024\240623A\V108_240514N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed May 15 09:35:21 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA108\2024\240623A\V08240623A01.d
Sub List : 8260-NY_R2 - NYSOM01.2 + NYSTARS

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
37)	1,1,1-Trichloroethane	0.000		0		N.D.	
39)	2-Butanone	5.501	43	50		N.D.	
41)	Benzene	0.000		0		N.D.	
44)	1,2-Dichloroethane	0.000		0		N.D.	
47)	Methyl cyclohexane	0.000		0		N.D.	
48)	Trichloroethene	0.000		0		N.D.	
51)	1,2-Dichloropropane	0.000		0		N.D.	
54)	Bromodichloromethane	0.000		0		N.D.	
57)	1,4-Dioxane	0.000		0		N.D.	
58)	cis-1,3-Dichloropropene	0.000		0		N.D.	
61)	Toluene	0.000		0		N.D.	
62)	4-Methyl-2-pentanone	0.000		0		N.D.	
63)	Tetrachloroethene	0.000		0		N.D.	
65)	trans-1,3-Dichloropropene	0.000		0		N.D.	
68)	1,1,2-Trichloroethane	0.000		0		N.D.	
69)	Chlorodibromomethane	0.000		0		N.D.	
71)	1,2-Dibromoethane	0.000		0		N.D.	
72)	2-Hexanone	0.000		0		N.D.	
73)	Chlorobenzene	0.000		0		N.D.	
74)	Ethylbenzene	9.648	91	51		N.D.	
76)	p/m Xylene	0.000		0		N.D.	
77)	o Xylene	0.000		0		N.D.	
78)	Styrene	0.000		0		N.D.	
80)	Bromoform	0.000		0		N.D.	
82)	Isopropylbenzene	0.000		0		N.D.	
87)	1,1,2,2-Tetrachloroethane	0.000		0		N.D.	
100)	1,3-Dichlorobenzene	0.000		0		N.D.	
101)	1,4-Dichlorobenzene	0.000		0		N.D.	
104)	1,2-Dichlorobenzene	0.000		0		N.D.	
106)	1,2-Dibromo-3-chloropr...	0.000		0		N.D.	
109)	1,2,4-Trichlorobenzene	0.000		0		N.D.	
111)	1,2,3-Trichlorobenzene	0.000		0		N.D.	

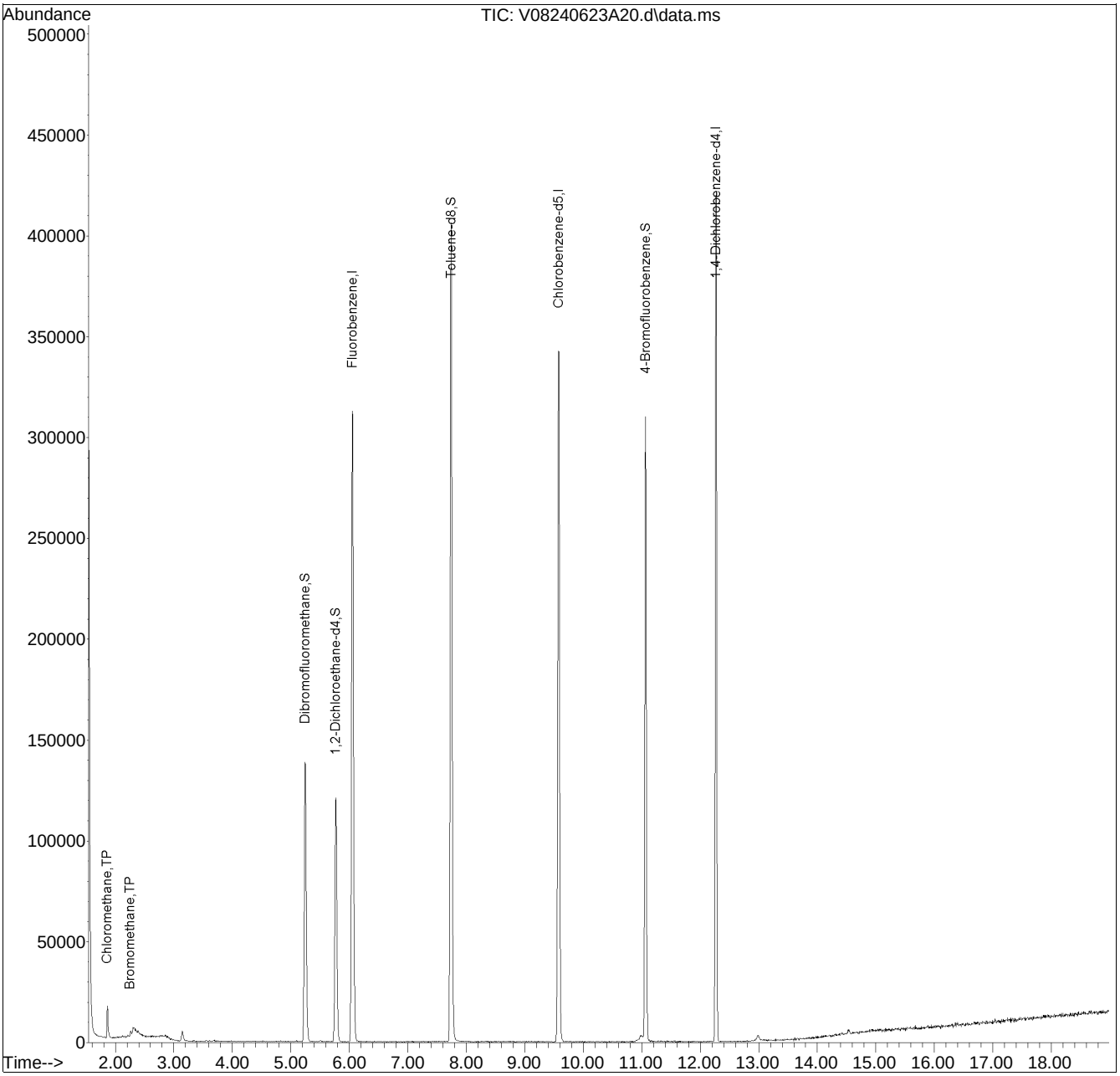
(#) = qualifier out of range (m) = manual integration (+) = signals summed

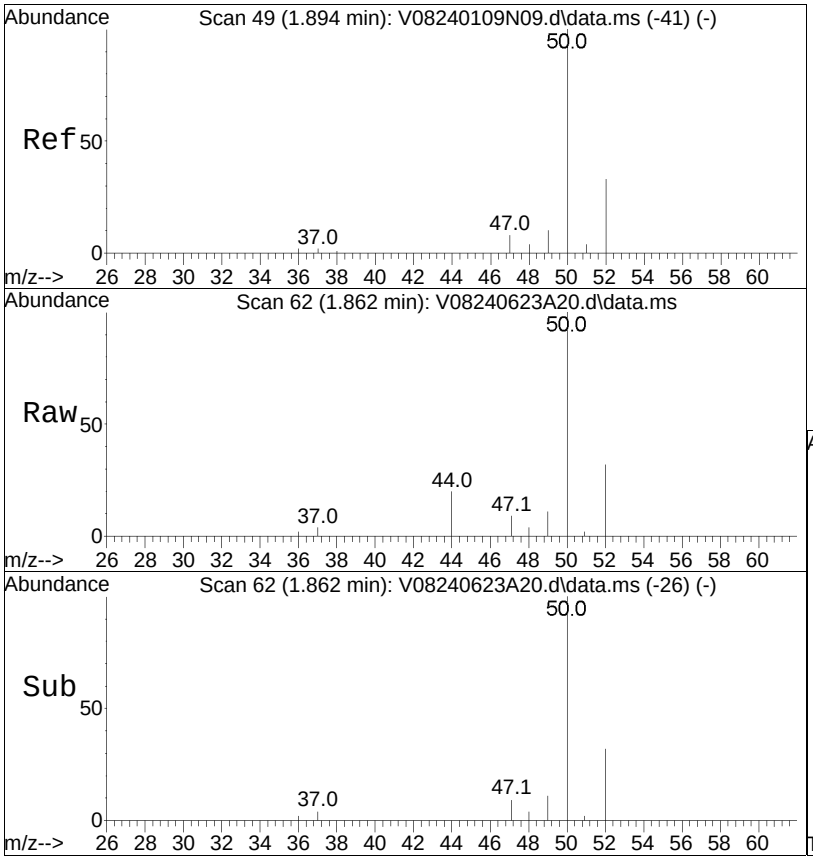
Quantitation Report (QT Reviewed)

Data Path : K:\VOA108\2024\240623A\
Data File : V08240623A20.d
Acq On : 23 Jun 2024 6:42 pm
Operator : VOA108:PID
Sample : L2434679-01,31,10,10,,A
Misc : WG1938519,ICAL21127
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Jun 24 11:13:58 2024
Quant Method : K:\VOA108\2024\240623A\V108_240514N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed May 15 09:35:21 2024
Response via : Initial Calibration

Sub List : 8260-NY_R2 - NYSOM01.2 + NYSTARS0623A01.d•

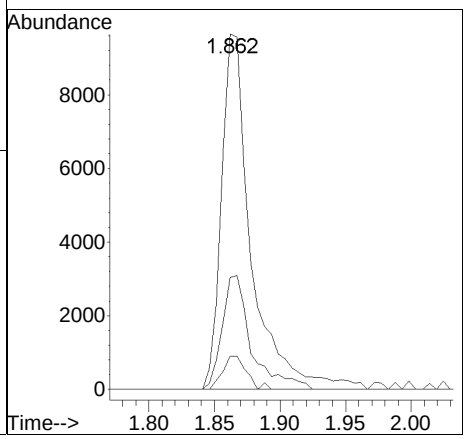


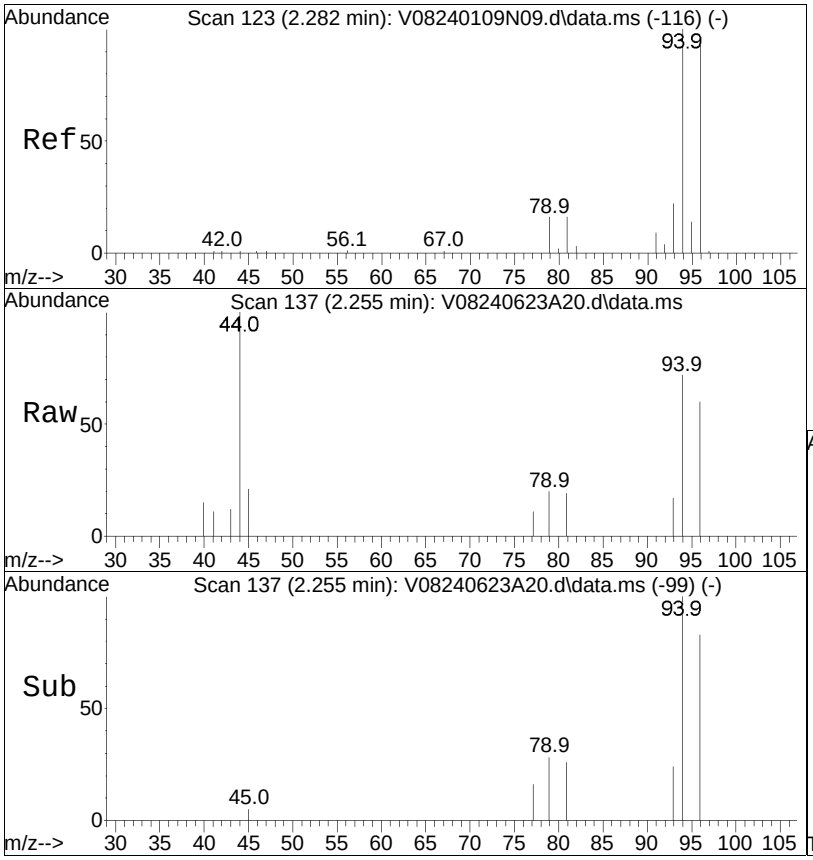


#3
Chloromethane
Concen: 1.98 ug/L
RT: 1.862 min Scan# 62
Delta R.T. -0.010 min
Lab File: V08240623A20.d
Acq: 23 Jun 2024 6:42 pm

Tgt Ion: 50 Resp: 15377

Ion	Ratio	Lower	Upper
50	100		
52	31.2	12.9	52.9
47	7.5	0.0	28.3

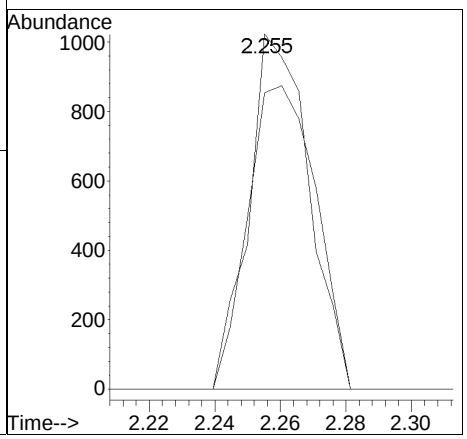




#5
Bromomethane
Concen: 0.31 ug/L
RT: 2.255 min Scan# 137
Delta R.T. 0.000 min
Lab File: V08240623A20.d
Acq: 23 Jun 2024 6:42 pm

Tgt Ion: 94 Resp: 1304

Ion	Ratio	Lower	Upper
94	100		
96	97.2	75.6	115.6



Manual Integration Report

Data Path	: K:\VOA108\2024\240623A\	QMethod	: V108_240514N_8260.m
Data File	: V08240623A20.d	Operator	: VOA108:PID
Date Inj'd	: 6/23/2024 6:42 pm	Instrument	: VOA 108
Sample	: L2434679-01,31,10,10,,A	Quant Date	: 6/24/2024 11:05 am

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

Quantitation Report (QT Reviewed)

Data Path : K:\VOA108\2024\240623A\
Data File : V08240623A21.d
Acq On : 23 Jun 2024 7:05 pm
Operator : VOA108:PID
Sample : L2434679-02,31,10,10,,A
Misc : WG1938519,ICAL21127
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Jun 24 11:14:13 2024
Quant Method : K:\VOA108\2024\240623A\V108_240514N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed May 15 09:35:21 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA108\2024\240623A\V08240623A01.d
Sub List : 8260-NY_R2 - NYSOM01.2 + NYSTARS

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	6.051	96	323915	10.000	ug/L	0.00
Standard Area 1 = 406145			Recovery = 79.75%			
59) Chlorobenzene-d5	9.580	117	242673	10.000	ug/L	0.00
Standard Area 1 = 302664			Recovery = 80.18%			
79) 1,4-Dichlorobenzene-d4	12.269	152	108963	10.000	ug/L	0.00
Standard Area 1 = 142503			Recovery = 76.46%			
System Monitoring Compounds						
36) Dibromofluoromethane	5.244	113	96003	10.809	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 108.09%			
43) 1,2-Dichloroethane-d4	5.768	65	102991	10.361	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 103.61%			
60) Toluene-d8	7.739	98	321242	10.085	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 100.85%			
83) 4-Bromofluorobenzene	11.064	95	109051	10.511	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 105.11%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	0.000		0	N.D.		
3) Chloromethane	1.862	50	14238	1.853	ug/L	95
4) Vinyl chloride	0.000		0	N.D.		
5) Bromomethane	2.260	94	1216	0.294	ug/L	92
6) Chloroethane	0.000		0	N.D.		
7) Trichlorofluoromethane	0.000		0	N.D.		
10) 1,1-Dichloroethene	0.000		0	N.D.		
11) Carbon disulfide	3.031	76	63	N.D.		
12) Freon-113	0.000		0	N.D.		
15) Methylene chloride	3.555	84	189	N.D.		
17) Acetone	0.000		0	N.D. d		
18) trans-1,2-Dichloroethene	0.000		0	N.D.		
19) Methyl acetate	0.000		0	N.D. d		
20) Methyl tert-butyl ether	0.000		0	N.D.		
23) 1,1-Dichloroethane	0.000		0	N.D.		
28) cis-1,2-Dichloroethene	0.000		0	N.D.		
30) Bromochloromethane	0.000		0	N.D.		
31) Cyclohexane	0.000		0	N.D.		
32) Chloroform	0.000		0	N.D.		
34) Carbon tetrachloride	0.000		0	N.D.		

Data Path : K:\VOA108\2024\240623A\
Data File : V08240623A21.d
Acq On : 23 Jun 2024 7:05 pm
Operator : VOA108:PID
Sample : L2434679-02,31,10,10,,A
Misc : WG1938519,ICAL21127
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Jun 24 11:14:13 2024
Quant Method : K:\VOA108\2024\240623A\V108_240514N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed May 15 09:35:21 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA108\2024\240623A\V08240623A01.d
Sub List : 8260-NY_R2 - NYSOM01.2 + NYSTARS

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
37)	1,1,1-Trichloroethane	0.000		0	N.D.		
39)	2-Butanone	0.000		0	N.D.	d	
41)	Benzene	0.000		0	N.D.		
44)	1,2-Dichloroethane	0.000		0	N.D.		
47)	Methyl cyclohexane	0.000		0	N.D.		
48)	Trichloroethene	0.000		0	N.D.		
51)	1,2-Dichloropropane	0.000		0	N.D.		
54)	Bromodichloromethane	0.000		0	N.D.		
57)	1,4-Dioxane	0.000		0	N.D.		
58)	cis-1,3-Dichloropropene	0.000		0	N.D.		
61)	Toluene	0.000		0	N.D.		
62)	4-Methyl-2-pentanone	0.000		0	N.D.		
63)	Tetrachloroethene	0.000		0	N.D.		
65)	trans-1,3-Dichloropropene	0.000		0	N.D.		
68)	1,1,2-Trichloroethane	0.000		0	N.D.		
69)	Chlorodibromomethane	0.000		0	N.D.		
71)	1,2-Dibromoethane	0.000		0	N.D.		
72)	2-Hexanone	0.000		0	N.D.		
73)	Chlorobenzene	0.000		0	N.D.		
74)	Ethylbenzene	9.564	91	249	N.D.		
76)	p/m Xylene	0.000		0	N.D.		
77)	o Xylene	0.000		0	N.D.		
78)	Styrene	0.000		0	N.D.		
80)	Bromoform	0.000		0	N.D.		
82)	Isopropylbenzene	0.000		0	N.D.		
87)	1,1,2,2-Tetrachloroethane	0.000		0	N.D.		
100)	1,3-Dichlorobenzene	0.000		0	N.D.		
101)	1,4-Dichlorobenzene	0.000		0	N.D.		
104)	1,2-Dichlorobenzene	0.000		0	N.D.		
106)	1,2-Dibromo-3-chloropr...	0.000		0	N.D.		
109)	1,2,4-Trichlorobenzene	0.000		0	N.D.		
111)	1,2,3-Trichlorobenzene	0.000		0	N.D.		

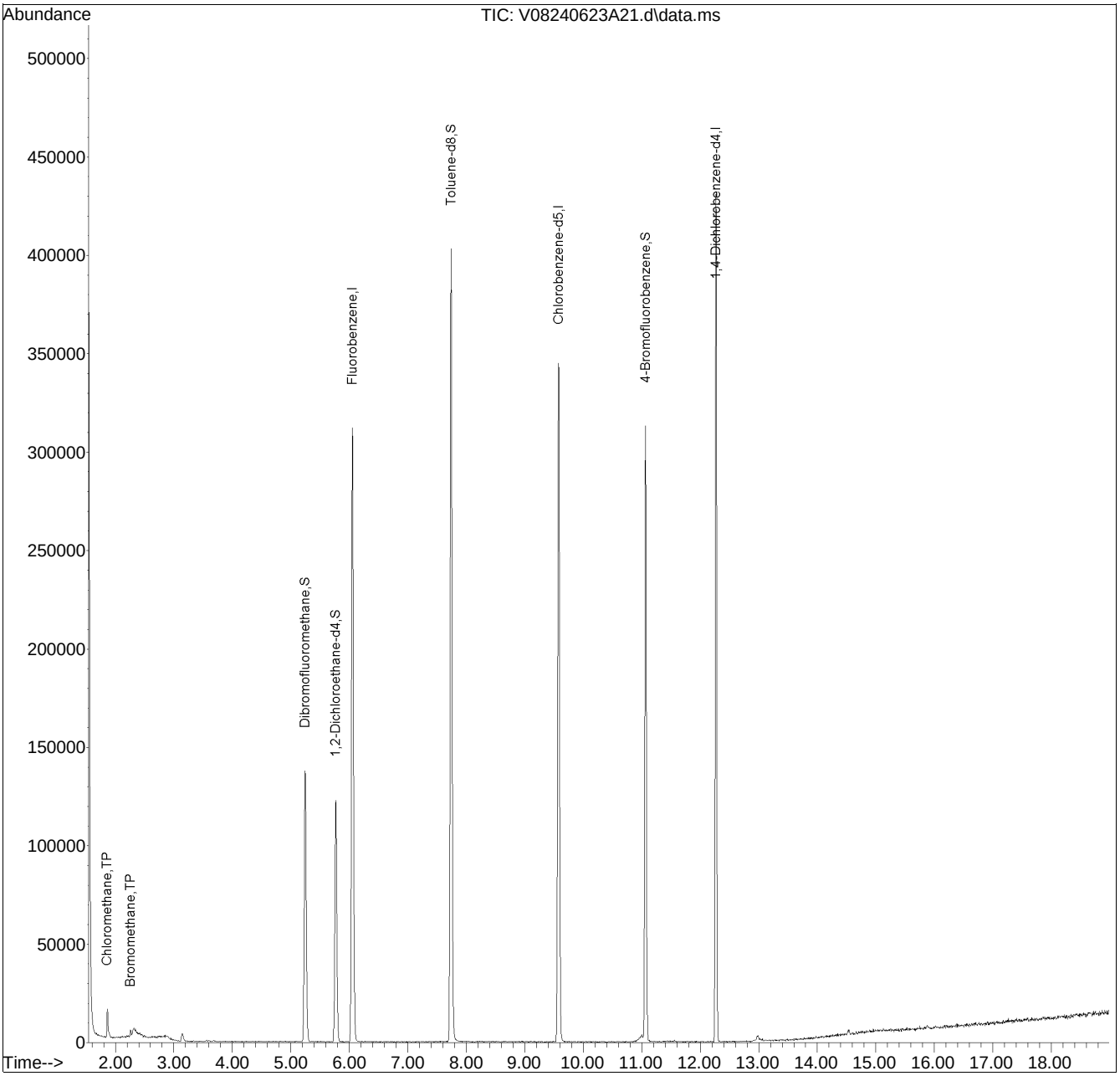
(#) = qualifier out of range (m) = manual integration (+) = signals summed

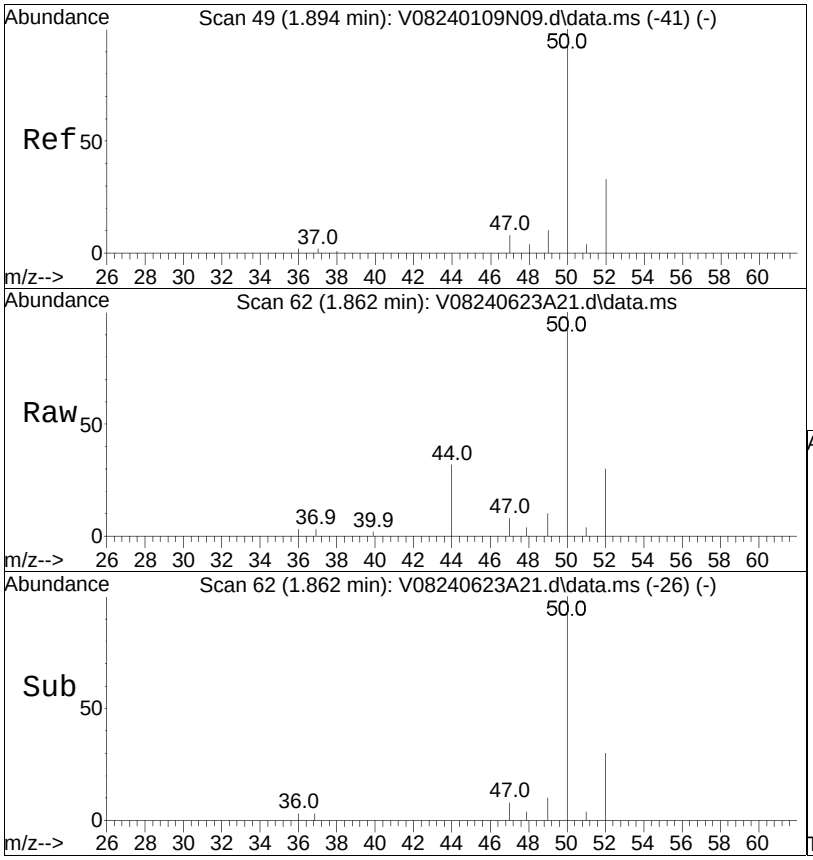
Quantitation Report (QT Reviewed)

Data Path : K:\VOA108\2024\240623A\
Data File : V08240623A21.d
Acq On : 23 Jun 2024 7:05 pm
Operator : VOA108:PID
Sample : L2434679-02,31,10,10,,A
Misc : WG1938519,ICAL21127
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Jun 24 11:14:13 2024
Quant Method : K:\VOA108\2024\240623A\V108_240514N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed May 15 09:35:21 2024
Response via : Initial Calibration

Sub List : 8260-NY_R2 - NYSOM01.2 + NYSTARS0623A01.d•

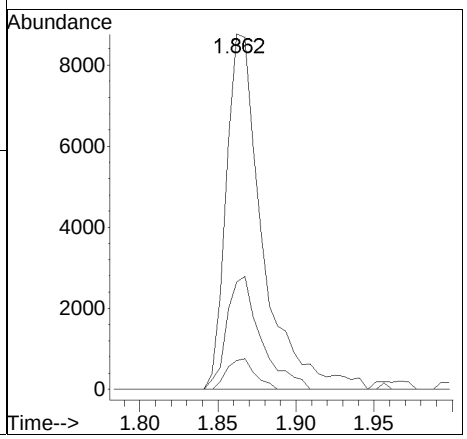


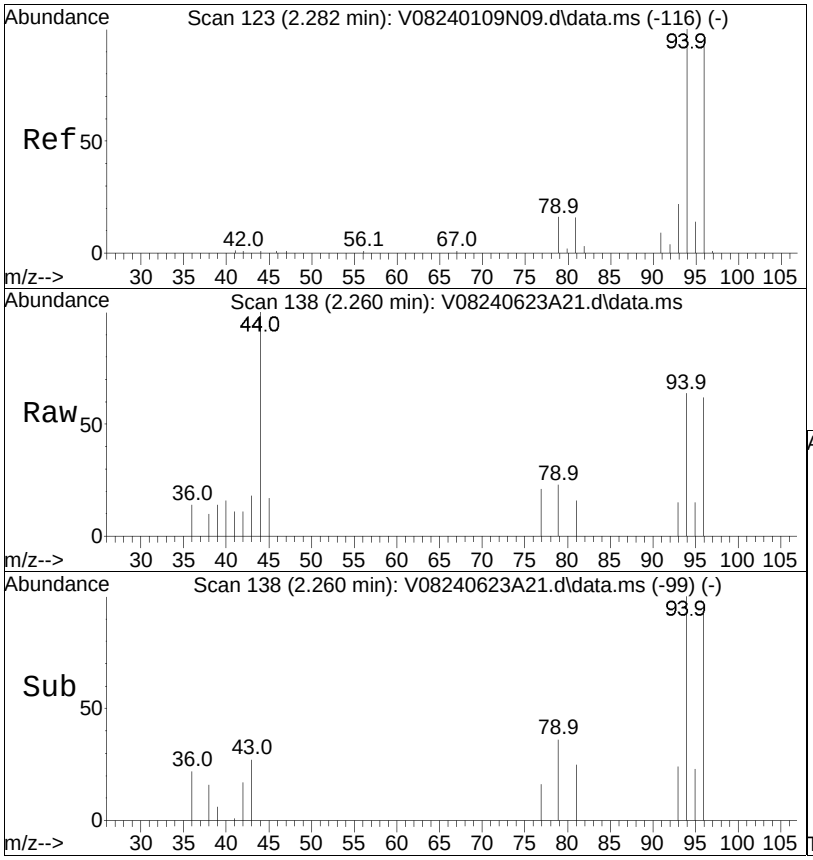


#3
Chloromethane
Concen: 1.85 ug/L
RT: 1.862 min Scan# 62
Delta R.T. -0.010 min
Lab File: V08240623A21.d
Acq: 23 Jun 2024 7:05 pm

Tgt Ion: 50 Resp: 14238

Ion	Ratio	Lower	Upper
50	100		
52	29.8	12.9	52.9
47	6.7	0.0	28.3

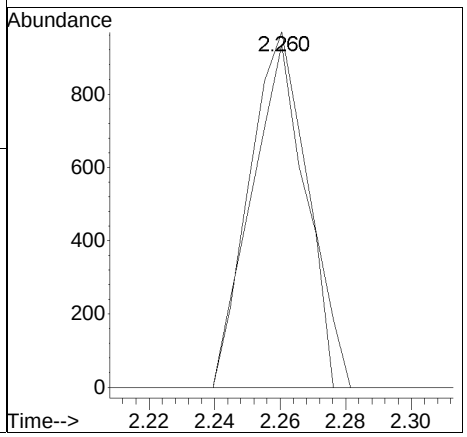




#5
Bromomethane
Concen: 0.29 ug/L
RT: 2.260 min Scan# 138
Delta R.T. 0.005 min
Lab File: V08240623A21.d
Acq: 23 Jun 2024 7:05 pm

Tgt Ion: 94 Resp: 1216

Ion	Ratio	Lower	Upper
94	100		
96	87.3	75.6	115.6



Manual Integration Report

Data Path	: K:\VOA108\2024\240623A\	QMethod	: V108_240514N_8260.m
Data File	: V08240623A21.d	Operator	: VOA108:PID
Date Inj'd	: 6/23/2024 7:05 pm	Instrument	: VOA 108
Sample	: L2434679-02,31,10,10,,A	Quant Date	: 6/24/2024 11:05 am

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

Quantitation Report (QT Reviewed)

Data Path : K:\VOA108\2024\240623A\
Data File : V08240623A22.d
Acq On : 23 Jun 2024 7:28 pm
Operator : VOA108:PID
Sample : L2434679-03,31,10,10,,A
Misc : WG1938519,ICAL21127
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Jun 24 11:14:24 2024
Quant Method : K:\VOA108\2024\240623A\V108_240514N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed May 15 09:35:21 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA108\2024\240623A\V08240623A01.d
Sub List : 8260-NY_R2 - NYSOM01.2 + NYSTARS

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	6.051	96	378270	10.000	ug/L	0.00
Standard Area 1 = 406145			Recovery = 93.14%			
59) Chlorobenzene-d5	9.574	117	281112	10.000	ug/L	0.00
Standard Area 1 = 302664			Recovery = 92.88%			
79) 1,4-Dichlorobenzene-d4	12.269	152	126044	10.000	ug/L	0.00
Standard Area 1 = 142503			Recovery = 88.45%			
System Monitoring Compounds						
36) Dibromofluoromethane	5.244	113	111214	10.722	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 107.22%			
43) 1,2-Dichloroethane-d4	5.768	65	119740	10.315	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 103.15%			
60) Toluene-d8	7.739	98	371495	10.068	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 100.68%			
83) 4-Bromofluorobenzene	11.063	95	127830	10.651	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 106.51%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	0.000		0	N.D.		
3) Chloromethane	1.862	50	16121	1.796	ug/L	97
4) Vinyl chloride	0.000		0	N.D.		
5) Bromomethane	2.260	94	1371	0.284	ug/L	90
6) Chloroethane	0.000		0	N.D.		
7) Trichlorofluoromethane	0.000		0	N.D.		
10) 1,1-Dichloroethene	0.000		0	N.D.		
11) Carbon disulfide	3.026	76	395	N.D.		
12) Freon-113	0.000		0	N.D.		
15) Methylene chloride	3.555	84	345	N.D.		
17) Acetone	0.000		0	N.D.	d	
18) trans-1,2-Dichloroethene	0.000		0	N.D.		
19) Methyl acetate	3.739	43	47	N.D.		
20) Methyl tert-butyl ether	0.000		0	N.D.		
23) 1,1-Dichloroethane	0.000		0	N.D.		
28) cis-1,2-Dichloroethene	4.877	96	50	N.D.		
30) Bromochloromethane	0.000		0	N.D.		
31) Cyclohexane	5.092	56	73	N.D.		
32) Chloroform	0.000		0	N.D.		
34) Carbon tetrachloride	0.000		0	N.D.		

Data Path : K:\VOA108\2024\240623A\
Data File : V08240623A22.d
Acq On : 23 Jun 2024 7:28 pm
Operator : VOA108:PID
Sample : L2434679-03,31,10,10,,A
Misc : WG1938519,ICAL21127
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Jun 24 11:14:24 2024
Quant Method : K:\VOA108\2024\240623A\V108_240514N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed May 15 09:35:21 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA108\2024\240623A\V08240623A01.d
Sub List : 8260-NY_R2 - NYSOM01.2 + NYSTARS

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) 1,1,1-Trichloroethane	0.000		0	N.D.		
39) 2-Butanone	0.000		0	N.D.	d	
41) Benzene	0.000		0	N.D.		
44) 1,2-Dichloroethane	0.000		0	N.D.		
47) Methyl cyclohexane	0.000		0	N.D.		
48) Trichloroethene	0.000		0	N.D.		
51) 1,2-Dichloropropane	0.000		0	N.D.		
54) Bromodichloromethane	0.000		0	N.D.		
57) 1,4-Dioxane	0.000		0	N.D.		
58) cis-1,3-Dichloropropene	0.000		0	N.D.		
61) Toluene	0.000		0	N.D.		
62) 4-Methyl-2-pentanone	0.000		0	N.D.		
63) Tetrachloroethene	0.000		0	N.D.		
65) trans-1,3-Dichloropropene	0.000		0	N.D.		
68) 1,1,2-Trichloroethane	0.000		0	N.D.		
69) Chlorodibromomethane	0.000		0	N.D.		
71) 1,2-Dibromoethane	0.000		0	N.D.		
72) 2-Hexanone	9.223	43	74	N.D.		
73) Chlorobenzene	0.000		0	N.D.		
74) Ethylbenzene	9.569	91	292	N.D.		
76) p/m Xylene	0.000		0	N.D.		
77) o Xylene	0.000		0	N.D.		
78) Styrene	0.000		0	N.D.		
80) Bromoform	0.000		0	N.D.		
82) Isopropylbenzene	0.000		0	N.D.		
87) 1,1,2,2-Tetrachloroethane	0.000		0	N.D.		
100) 1,3-Dichlorobenzene	12.269	146	53	N.D.		
101) 1,4-Dichlorobenzene	12.269	146	53	N.D.		
104) 1,2-Dichlorobenzene	0.000		0	N.D.		
106) 1,2-Dibromo-3-chloropr...	0.000		0	N.D.		
109) 1,2,4-Trichlorobenzene	0.000		0	N.D.		
111) 1,2,3-Trichlorobenzene	0.000		0	N.D.		

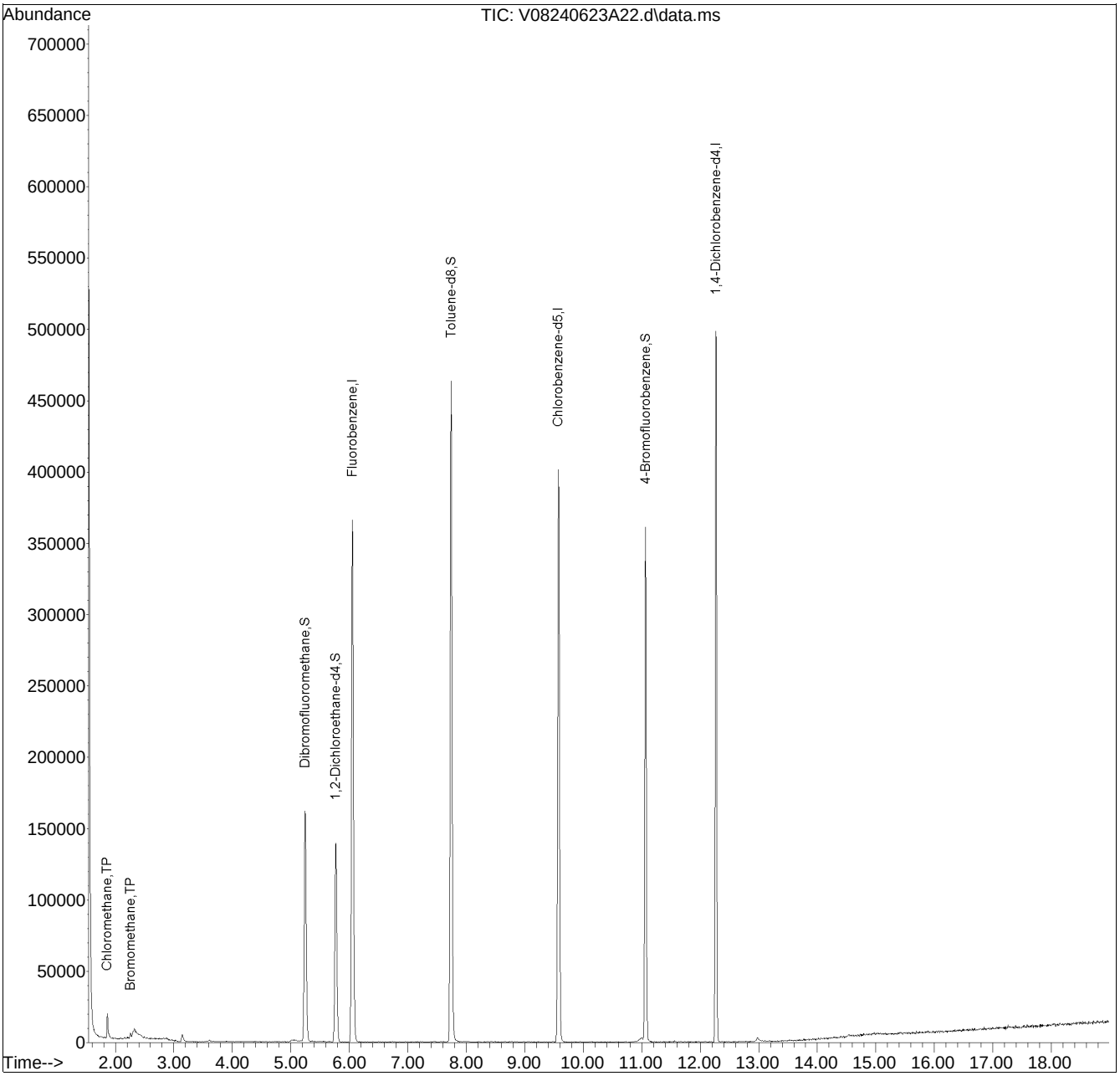
(#) = qualifier out of range (m) = manual integration (+) = signals summed

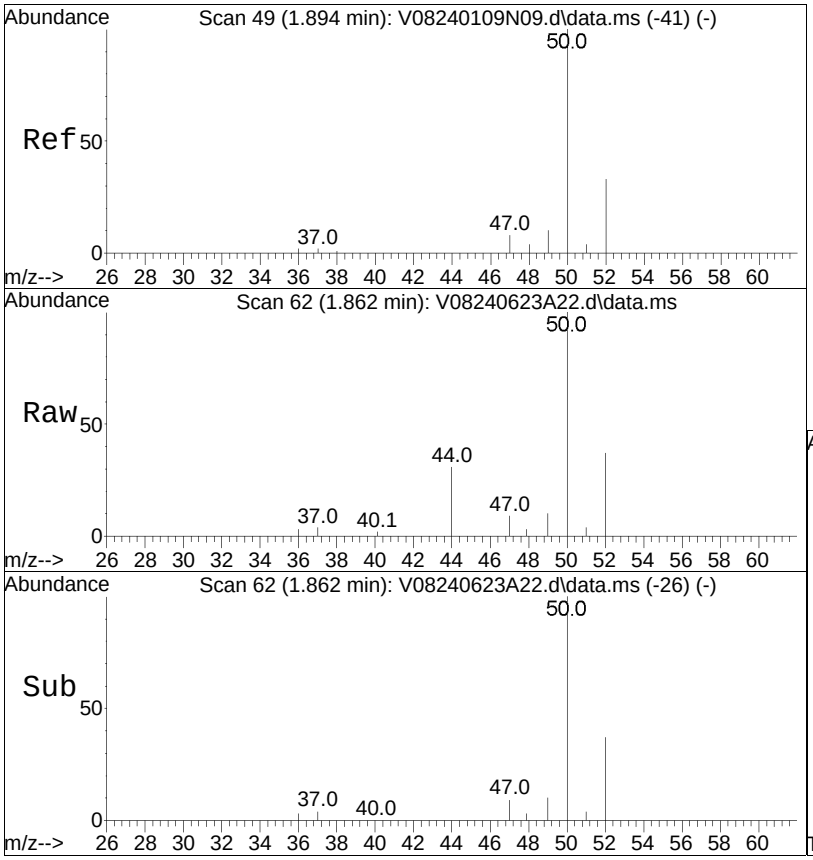
Quantitation Report (QT Reviewed)

Data Path : K:\VOA108\2024\240623A\
Data File : V08240623A22.d
Acq On : 23 Jun 2024 7:28 pm
Operator : VOA108:PID
Sample : L2434679-03,31,10,10,,A
Misc : WG1938519,ICAL21127
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Jun 24 11:14:24 2024
Quant Method : K:\VOA108\2024\240623A\V108_240514N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed May 15 09:35:21 2024
Response via : Initial Calibration

Sub List : 8260-NY_R2 - NYSOM01.2 + NYSTARS0623A01.d•

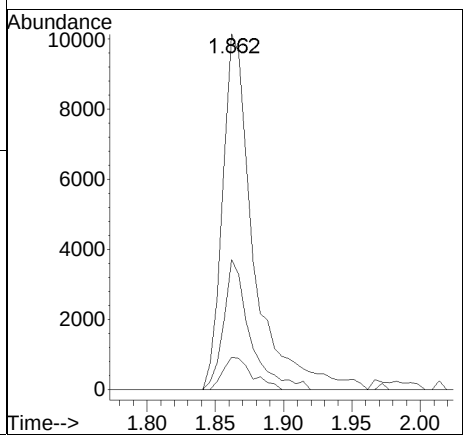


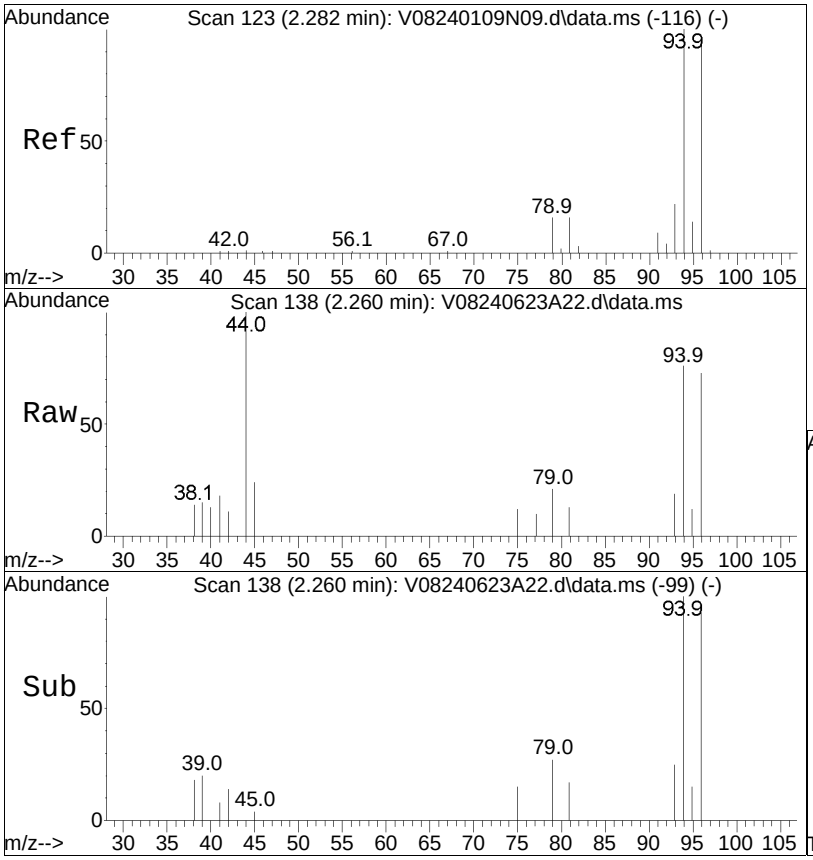


#3
Chloromethane
Concen: 1.80 ug/L
RT: 1.862 min Scan# 62
Delta R.T. -0.010 min
Lab File: V08240623A22.d
Acq: 23 Jun 2024 7:28 pm

Tgt Ion: 50 Resp: 16121

Ion	Ratio	Lower	Upper
50	100		
52	30.8	12.9	52.9
47	8.5	0.0	28.3

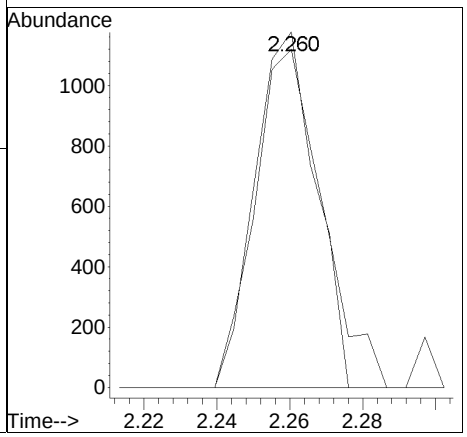




#5
Bromomethane
Concen: 0.28 ug/L
RT: 2.260 min Scan# 138
Delta R.T. 0.005 min
Lab File: V08240623A22.d
Acq: 23 Jun 2024 7:28 pm

Tgt Ion: 94 Resp: 1371

Ion	Ratio	Lower	Upper
94	100		
96	105.6	75.6	115.6



Manual Integration Report

Data Path	: K:\VOA108\2024\240623A\	QMethod	: V108_240514N_8260.m
Data File	: V08240623A22.d	Operator	: VOA108:PID
Date Inj'd	: 6/23/2024 7:28 pm	Instrument	: VOA 108
Sample	: L2434679-03,31,10,10,,A	Quant Date	: 6/24/2024 11:05 am

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

Quantitation Report (QT Reviewed)

Data Path : K:\VOA108\2024\240623A\
Data File : V08240623A23.d
Acq On : 23 Jun 2024 7:51 pm
Operator : VOA108:PID
Sample : L2434679-04,31,10,10,,A
Misc : WG1938519,ICAL21127
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Jun 24 11:14:34 2024
Quant Method : K:\VOA108\2024\240623A\V108_240514N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed May 15 09:35:21 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA108\2024\240623A\V08240623A01.d
Sub List : 8260-NY_R2 - NYSOM01.2 + NYSTARS

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	6.051	96	295621	10.000	ug/L	0.00
Standard Area 1 = 406145			Recovery = 72.79%			
59) Chlorobenzene-d5	9.580	117	224000	10.000	ug/L	0.00
Standard Area 1 = 302664			Recovery = 74.01%			
79) 1,4-Dichlorobenzene-d4	12.269	152	101573	10.000	ug/L	0.00
Standard Area 1 = 142503			Recovery = 71.28%			
System Monitoring Compounds						
36) Dibromofluoromethane	5.244	113	87326	10.773	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 107.73%			
43) 1,2-Dichloroethane-d4	5.768	65	93222	10.276	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 102.76%			
60) Toluene-d8	7.739	98	291705	9.921	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 99.21%			
83) 4-Bromofluorobenzene	11.063	95	100962	10.439	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 104.39%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	0.000		0	N.D.		
3) Chloromethane	1.862	50	12807	1.826	ug/L	95
4) Vinyl chloride	0.000		0	N.D.		
5) Bromomethane	2.260	94	1066	0.283	ug/L	93
6) Chloroethane	0.000		0	N.D.		
7) Trichlorofluoromethane	0.000		0	N.D.		
10) 1,1-Dichloroethene	0.000		0	N.D.		
11) Carbon disulfide	3.036	76	51	N.D.		
12) Freon-113	0.000		0	N.D.		
15) Methylene chloride	3.550	84	71	N.D.		
17) Acetone	3.603	43	922	0.794	ug/L #	54
18) trans-1,2-Dichloroethene	0.000		0	N.D.		
19) Methyl acetate	0.000		0	N.D. d		
20) Methyl tert-butyl ether	0.000		0	N.D.		
23) 1,1-Dichloroethane	0.000		0	N.D.		
28) cis-1,2-Dichloroethene	0.000		0	N.D.		
30) Bromochloromethane	0.000		0	N.D.		
31) Cyclohexane	5.102	56	58	N.D.		
32) Chloroform	0.000		0	N.D.		
34) Carbon tetrachloride	0.000		0	N.D.		

Data Path : K:\VOA108\2024\240623A\
Data File : V08240623A23.d
Acq On : 23 Jun 2024 7:51 pm
Operator : VOA108:PID
Sample : L2434679-04,31,10,10,,A
Misc : WG1938519,ICAL21127
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Jun 24 11:14:34 2024
Quant Method : K:\VOA108\2024\240623A\V108_240514N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed May 15 09:35:21 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA108\2024\240623A\V08240623A01.d
Sub List : 8260-NY_R2 - NYSOM01.2 + NYSTARS

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
37)	1,1,1-Trichloroethane	0.000		0	N.D.		
39)	2-Butanone	0.000		0	N.D.	d	
41)	Benzene	0.000		0	N.D.		
44)	1,2-Dichloroethane	0.000		0	N.D.		
47)	Methyl cyclohexane	0.000		0	N.D.		
48)	Trichloroethene	0.000		0	N.D.		
51)	1,2-Dichloropropane	0.000		0	N.D.		
54)	Bromodichloromethane	0.000		0	N.D.		
57)	1,4-Dioxane	0.000		0	N.D.		
58)	cis-1,3-Dichloropropene	0.000		0	N.D.		
61)	Toluene	7.792	92	54	N.D.		
62)	4-Methyl-2-pentanone	0.000		0	N.D.		
63)	Tetrachloroethene	0.000		0	N.D.		
65)	trans-1,3-Dichloropropene	0.000		0	N.D.		
68)	1,1,2-Trichloroethane	0.000		0	N.D.		
69)	Chlorodibromomethane	0.000		0	N.D.		
71)	1,2-Dibromoethane	0.000		0	N.D.		
72)	2-Hexanone	9.234	43	50	N.D.		
73)	Chlorobenzene	9.595	112	50	N.D.		
74)	Ethylbenzene	9.580	91	335	N.D.		
76)	p/m Xylene	0.000		0	N.D.		
77)	o Xylene	0.000		0	N.D.		
78)	Styrene	0.000		0	N.D.		
80)	Bromoform	0.000		0	N.D.		
82)	Isopropylbenzene	0.000		0	N.D.		
87)	1,1,2,2-Tetrachloroethane	0.000		0	N.D.		
100)	1,3-Dichlorobenzene	0.000		0	N.D.		
101)	1,4-Dichlorobenzene	0.000		0	N.D.		
104)	1,2-Dichlorobenzene	0.000		0	N.D.		
106)	1,2-Dibromo-3-chloropr...	0.000		0	N.D.		
109)	1,2,4-Trichlorobenzene	0.000		0	N.D.		
111)	1,2,3-Trichlorobenzene	0.000		0	N.D.		

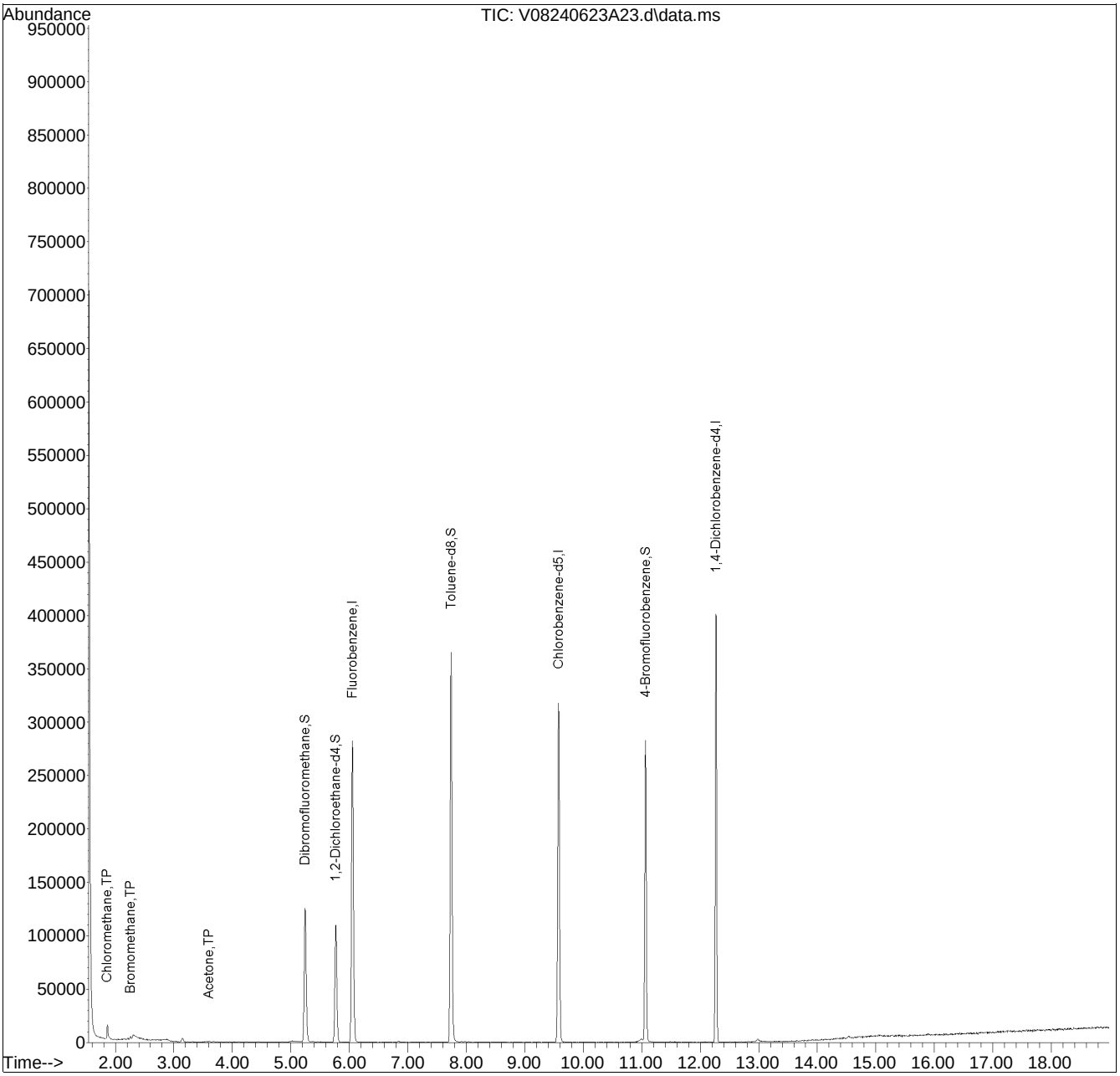
(#) = qualifier out of range (m) = manual integration (+) = signals summed

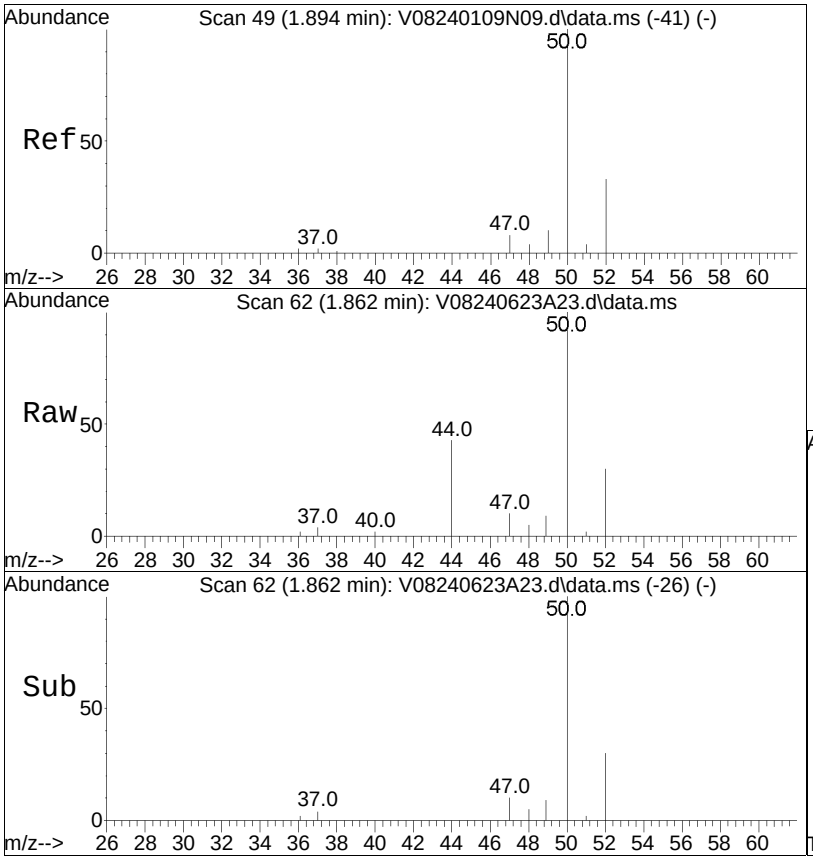
Quantitation Report (QT Reviewed)

Data Path : K:\VOA108\2024\240623A\
Data File : V08240623A23.d
Acq On : 23 Jun 2024 7:51 pm
Operator : VOA108:PID
Sample : L2434679-04,31,10,10,,A
Misc : WG1938519,ICAL21127
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Jun 24 11:14:34 2024
Quant Method : K:\VOA108\2024\240623A\V108_240514N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed May 15 09:35:21 2024
Response via : Initial Calibration

Sub List : 8260-NY_R2 - NYSOM01.2 + NYSTARS0623A01.d•

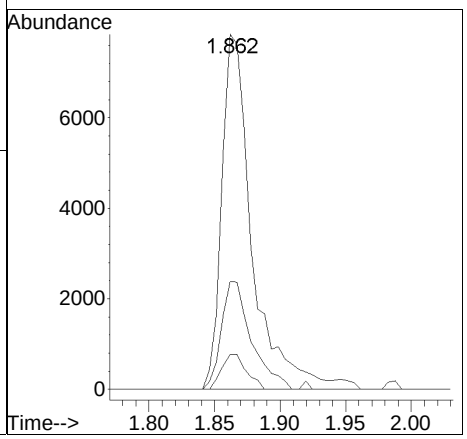


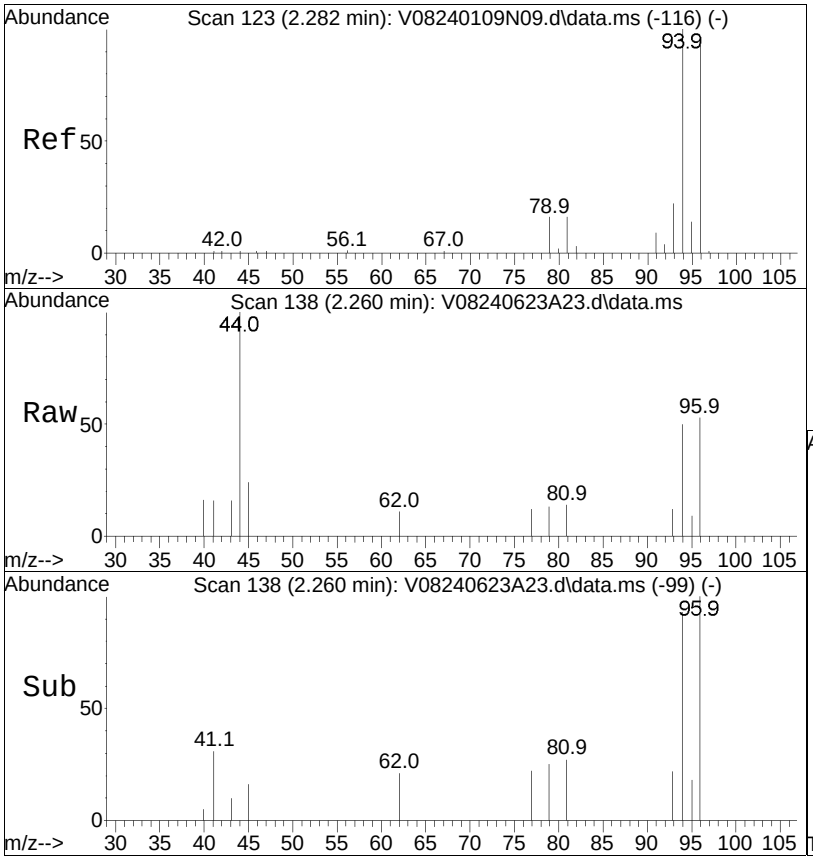


#3
Chloromethane
Concen: 1.83 ug/L
RT: 1.862 min Scan# 62
Delta R.T. -0.010 min
Lab File: V08240623A23.d
Acq: 23 Jun 2024 7:51 pm

Tgt Ion: 50 Resp: 12807

Ion	Ratio	Lower	Upper
50	100		
52	29.7	12.9	52.9
47	8.0	0.0	28.3

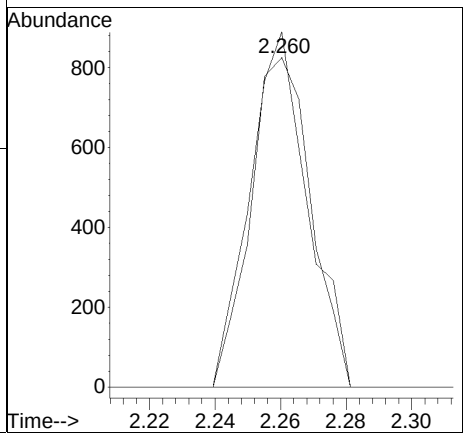


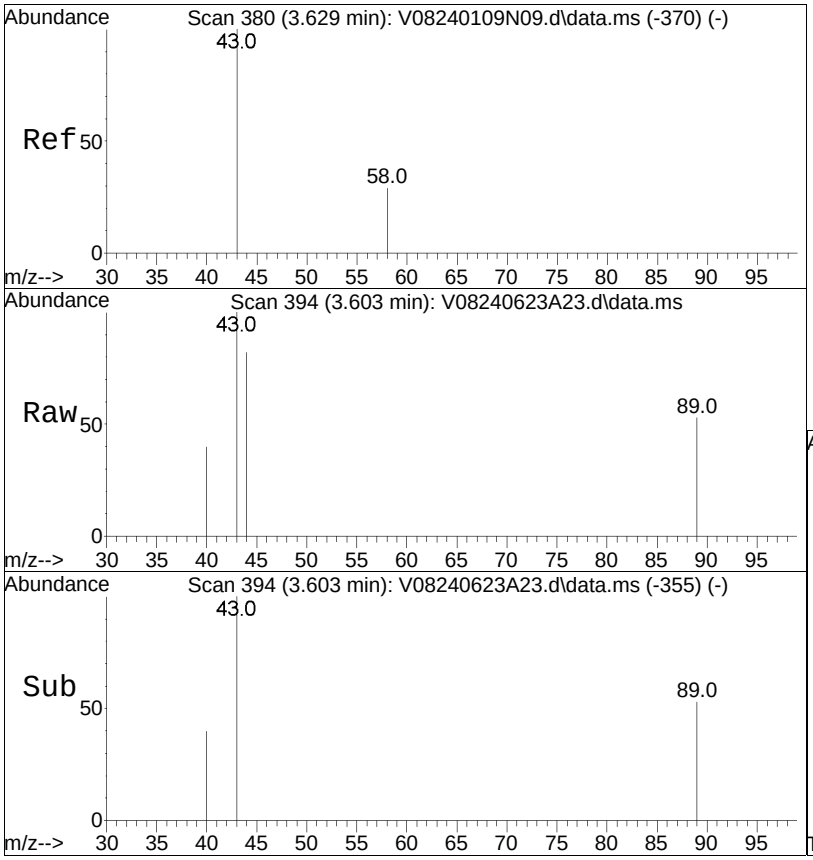


#5
Bromomethane
Concen: 0.28 ug/L
RT: 2.260 min Scan# 138
Delta R.T. 0.005 min
Lab File: V08240623A23.d
Acq: 23 Jun 2024 7:51 pm

Tgt Ion: 94 Resp: 1066

Ion	Ratio	Lower	Upper
94	100		
96	102.8	75.6	115.6

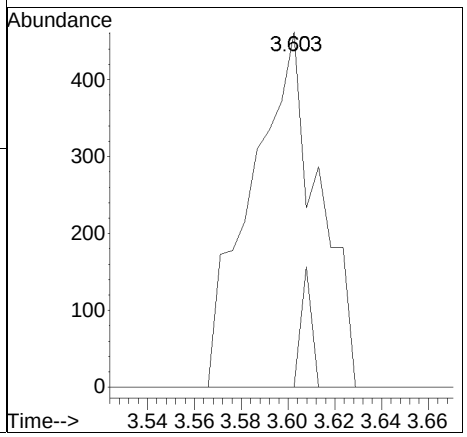




#17
Acetone
Concen: 0.79 ug/L
RT: 3.603 min Scan# 394
Delta R.T. 0.006 min
Lab File: V08240623A23.d
Acq: 23 Jun 2024 7:51 pm

Tgt Ion: 43 Resp: 922

Ion	Ratio	Lower	Upper
43	100		
58	5.3	24.2	36.4#



Manual Integration Report

Data Path	: K:\VOA108\2024\240623A\	QMethod	: V108_240514N_8260.m
Data File	: V08240623A23.d	Operator	: VOA108:PID
Date Inj'd	: 6/23/2024 7:51 pm	Instrument	: VOA 108
Sample	: L2434679-04,31,10,10,,A	Quant Date	: 6/24/2024 11:05 am

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

Quantitation Report (QT Reviewed)

Data Path : K:\VOA108\2024\240623A\
Data File : V08240623A24.d
Acq On : 23 Jun 2024 8:14 pm
Operator : VOA108:PID
Sample : L2434679-05,31,10,10,,A
Misc : WG1938519,ICAL21127
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Jun 24 11:14:42 2024
Quant Method : K:\VOA108\2024\240623A\V108_240514N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed May 15 09:35:21 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA108\2024\240623A\V08240623A01.d
Sub List : 8260-NY_R2 - NYSOM01.2 + NYSTARS

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	6.051	96	336705	10.000	ug/L	0.00
Standard Area 1 = 406145			Recovery = 82.90%			
59) Chlorobenzene-d5	9.574	117	250829	10.000	ug/L	0.00
Standard Area 1 = 302664			Recovery = 82.87%			
79) 1,4-Dichlorobenzene-d4	12.264	152	112847	10.000	ug/L	0.00
Standard Area 1 = 142503			Recovery = 79.19%			
System Monitoring Compounds						
36) Dibromofluoromethane	5.244	113	98902	10.712	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 107.12%			
43) 1,2-Dichloroethane-d4	5.768	65	105842	10.243	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 102.43%			
60) Toluene-d8	7.739	98	332226	10.091	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 100.91%			
83) 4-Bromofluorobenzene	11.063	95	113699	10.581	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 105.81%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	0.000		0	N.D.		
3) Chloromethane	1.862	50	13615	1.704	ug/L	93
4) Vinyl chloride	0.000		0	N.D.		
5) Bromomethane	2.260	94	1180	0.275	ug/L	98
6) Chloroethane	0.000		0	N.D.		
7) Trichlorofluoromethane	0.000		0	N.D.		
10) 1,1-Dichloroethene	0.000		0	N.D.		
11) Carbon disulfide	3.031	76	107	N.D.		
12) Freon-113	0.000		0	N.D.		
15) Methylene chloride	3.561	84	111	N.D.		
17) Acetone	0.000		0	N.D.	d	
18) trans-1,2-Dichloroethene	0.000		0	N.D.		
19) Methyl acetate	0.000		0	N.D.	d	
20) Methyl tert-butyl ether	0.000		0	N.D.		
23) 1,1-Dichloroethane	0.000		0	N.D.		
28) cis-1,2-Dichloroethene	0.000		0	N.D.		
30) Bromochloromethane	0.000		0	N.D.		
31) Cyclohexane	5.097	56	49	N.D.		
32) Chloroform	0.000		0	N.D.		
34) Carbon tetrachloride	0.000		0	N.D.		

Data Path : K:\VOA108\2024\240623A\
Data File : V08240623A24.d
Acq On : 23 Jun 2024 8:14 pm
Operator : VOA108:PID
Sample : L2434679-05,31,10,10,,A
Misc : WG1938519,ICAL21127
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Jun 24 11:14:42 2024
Quant Method : K:\VOA108\2024\240623A\V108_240514N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed May 15 09:35:21 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA108\2024\240623A\V08240623A01.d
Sub List : 8260-NY_R2 - NYSOM01.2 + NYSTARS

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
37)	1,1,1-Trichloroethane	0.000		0		N.D.	
39)	2-Butanone	0.000		0		N.D.	
41)	Benzene	0.000		0		N.D.	
44)	1,2-Dichloroethane	0.000		0		N.D.	
47)	Methyl cyclohexane	0.000		0		N.D.	
48)	Trichloroethene	0.000		0		N.D.	
51)	1,2-Dichloropropane	0.000		0		N.D.	
54)	Bromodichloromethane	0.000		0		N.D.	
57)	1,4-Dioxane	0.000		0		N.D.	
58)	cis-1,3-Dichloropropene	0.000		0		N.D.	
61)	Toluene	0.000		0		N.D.	
62)	4-Methyl-2-pentanone	0.000		0		N.D.	
63)	Tetrachloroethene	0.000		0		N.D.	
65)	trans-1,3-Dichloropropene	0.000		0		N.D.	
68)	1,1,2-Trichloroethane	0.000		0		N.D.	
69)	Chlorodibromomethane	0.000		0		N.D.	
71)	1,2-Dibromoethane	0.000		0		N.D.	
72)	2-Hexanone	0.000		0		N.D.	
73)	Chlorobenzene	0.000		0		N.D.	
74)	Ethylbenzene	9.569	91	405		N.D.	
76)	p/m Xylene	0.000		0		N.D.	
77)	o Xylene	0.000		0		N.D.	
78)	Styrene	0.000		0		N.D.	
80)	Bromoform	0.000		0		N.D.	
82)	Isopropylbenzene	0.000		0		N.D.	
87)	1,1,2,2-Tetrachloroethane	0.000		0		N.D.	
100)	1,3-Dichlorobenzene	0.000		0		N.D.	
101)	1,4-Dichlorobenzene	0.000		0		N.D.	
104)	1,2-Dichlorobenzene	0.000		0		N.D.	
106)	1,2-Dibromo-3-chloropr...	0.000		0		N.D.	
109)	1,2,4-Trichlorobenzene	0.000		0		N.D.	
111)	1,2,3-Trichlorobenzene	0.000		0		N.D.	

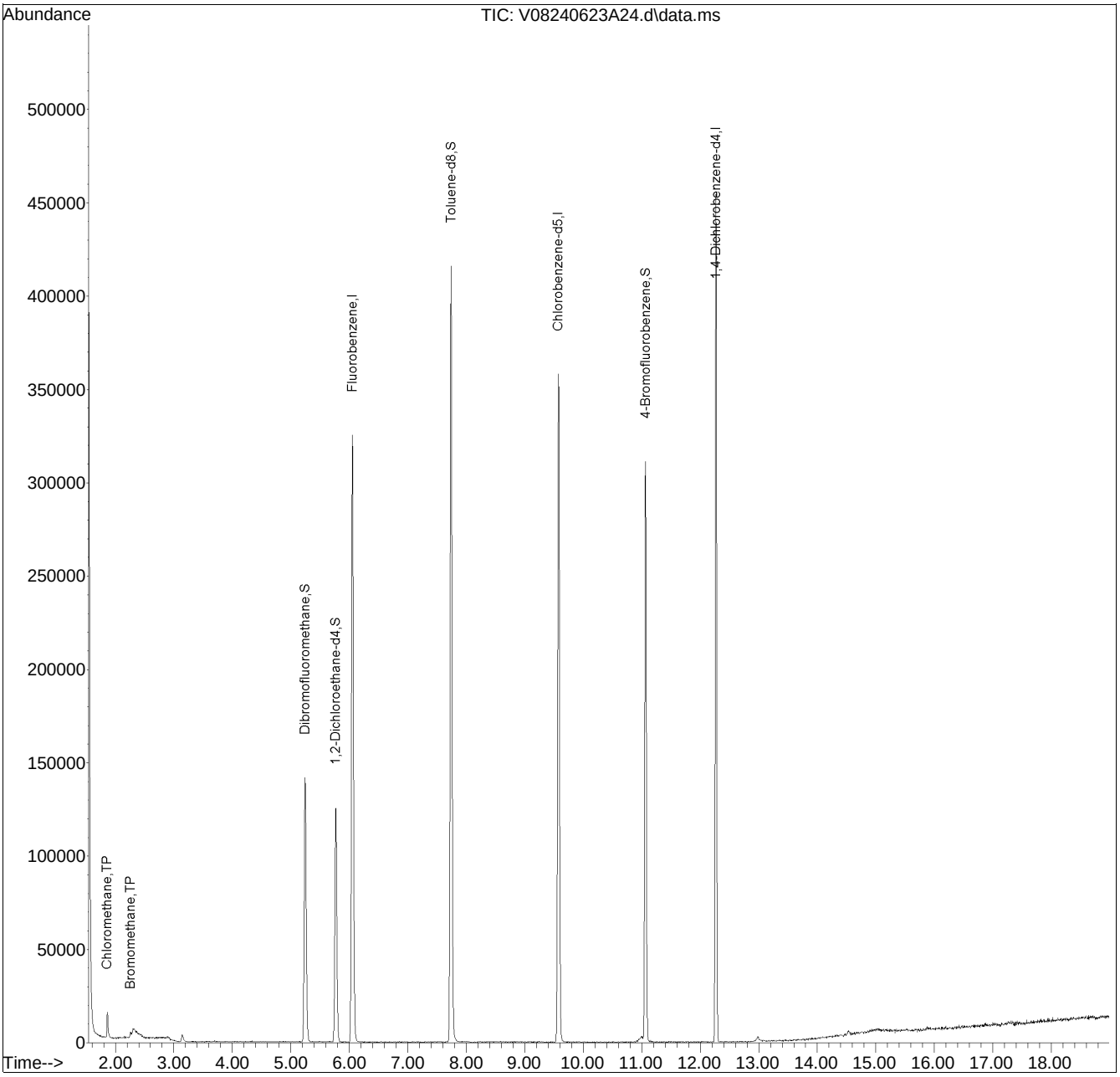
(#) = qualifier out of range (m) = manual integration (+) = signals summed

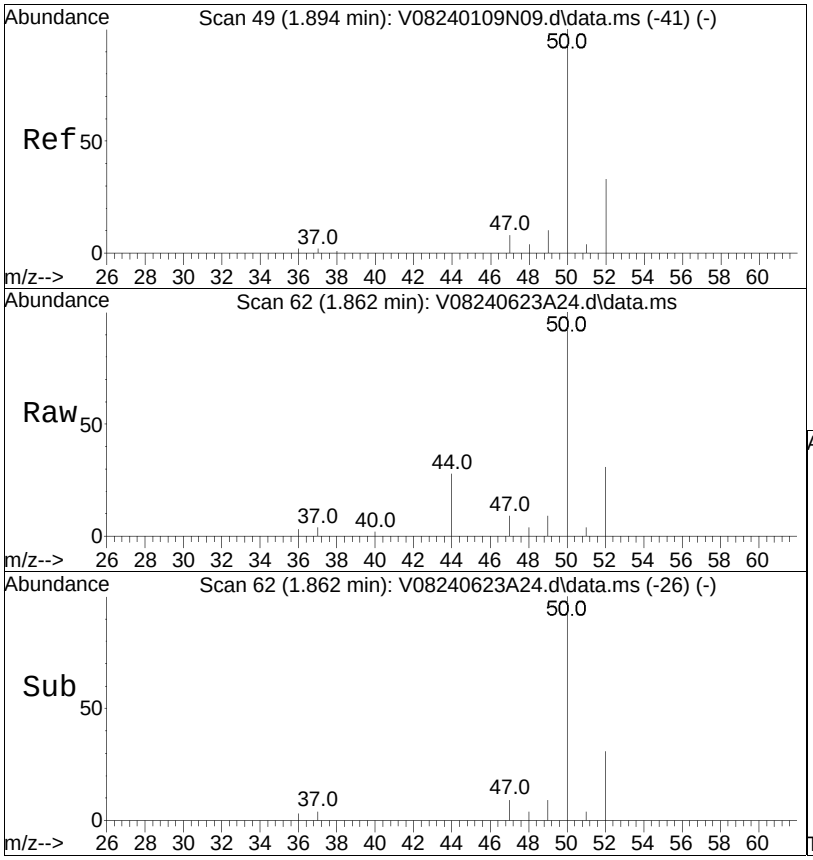
Quantitation Report (QT Reviewed)

Data Path : K:\VOA108\2024\240623A\
Data File : V08240623A24.d
Acq On : 23 Jun 2024 8:14 pm
Operator : VOA108:PID
Sample : L2434679-05,31,10,10,,A
Misc : WG1938519,ICAL21127
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Jun 24 11:14:42 2024
Quant Method : K:\VOA108\2024\240623A\V108_240514N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed May 15 09:35:21 2024
Response via : Initial Calibration

Sub List : 8260-NY_R2 - NYSOM01.2 + NYSTARS0623A01.d•

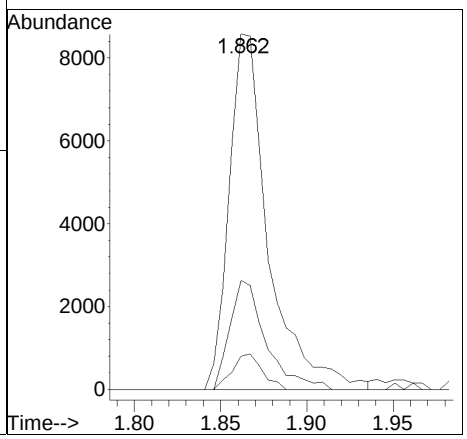


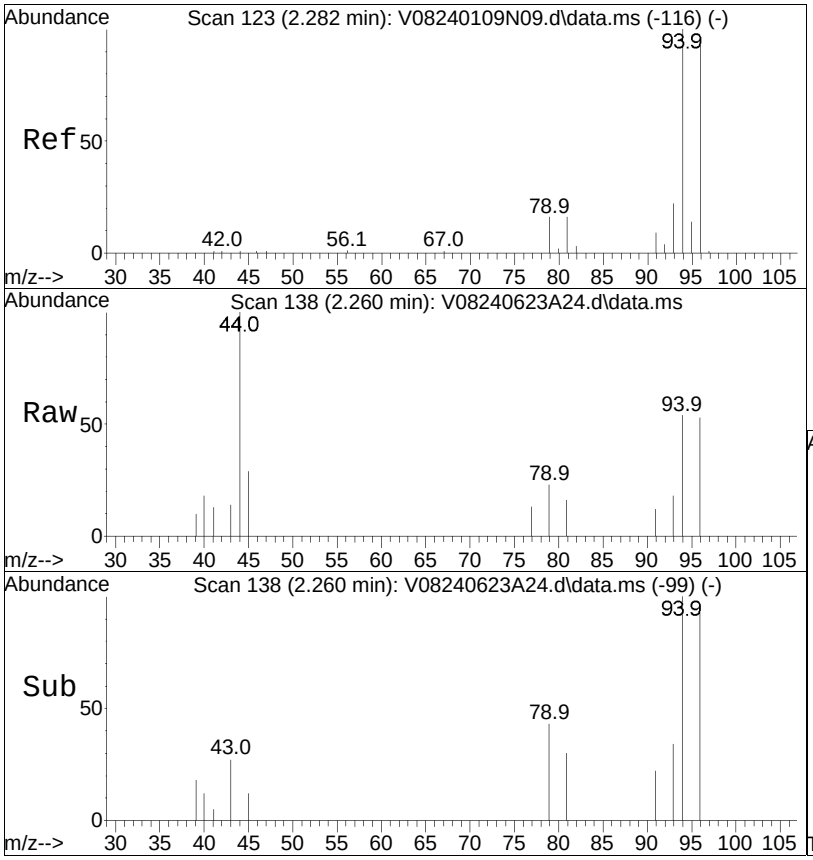


#3
Chloromethane
Concen: 1.70 ug/L
RT: 1.862 min Scan# 62
Delta R.T. -0.010 min
Lab File: V08240623A24.d
Acq: 23 Jun 2024 8:14 pm

Tgt Ion: 50 Resp: 13615

Ion	Ratio	Lower	Upper
50	100		
52	28.1	12.9	52.9
47	7.6	0.0	28.3

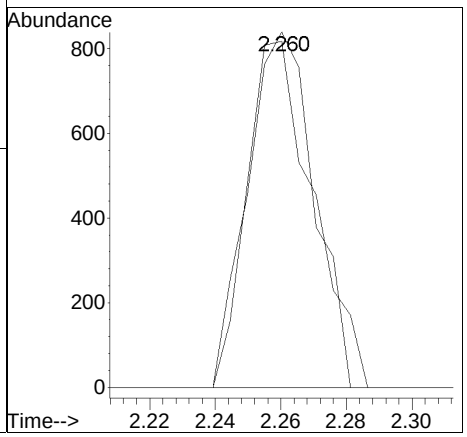




#5
Bromomethane
Concen: 0.27 ug/L
RT: 2.260 min Scan# 138
Delta R.T. 0.005 min
Lab File: V08240623A24.d
Acq: 23 Jun 2024 8:14 pm

Tgt Ion: 94 Resp: 1180

Ion	Ratio	Lower	Upper
94	100		
96	97.3	75.6	115.6



Manual Integration Report

Data Path	: K:\VOA108\2024\240623A\	QMethod	: V108_240514N_8260.m
Data File	: V08240623A24.d	Operator	: VOA108:PID
Date Inj'd	: 6/23/2024 8:14 pm	Instrument	: VOA 108
Sample	: L2434679-05,31,10,10,,A	Quant Date	: 6/24/2024 11:05 am

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

Quantitation Report (QT Reviewed)

Data Path : K:\VOA108\2024\240623A\
Data File : V08240623A25.d
Acq On : 23 Jun 2024 8:37 pm
Operator : VOA108:PID
Sample : L2434679-06,31,10,10,,A
Misc : WG1938519,ICAL21127
ALS Vial : 25 Sample Multiplier: 1

Quant Time: Jun 24 11:14:51 2024
Quant Method : K:\VOA108\2024\240623A\V108_240514N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed May 15 09:35:21 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA108\2024\240623A\V08240623A01.d
Sub List : 8260-NY_R2 - NYSOM01.2 + NYSTARS

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	6.051	96	360779	10.000	ug/L	0.00
Standard Area 1 = 406145			Recovery = 88.83%			
59) Chlorobenzene-d5	9.574	117	272192	10.000	ug/L	0.00
Standard Area 1 = 302664			Recovery = 89.93%			
79) 1,4-Dichlorobenzene-d4	12.269	152	129383	10.000	ug/L	0.00
Standard Area 1 = 142503			Recovery = 90.79%			
System Monitoring Compounds						
36) Dibromofluoromethane	5.244	113	107672	10.884	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 108.84%			
43) 1,2-Dichloroethane-d4	5.768	65	114395	10.332	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 103.32%			
60) Toluene-d8	7.739	98	355276	9.944	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 99.44%			
83) 4-Bromofluorobenzene	11.063	95	125732	10.206	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 102.06%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	0.000		0	N.D.		
3) Chloromethane	1.862	50	14561	1.701	ug/L	98
4) Vinyl chloride	0.000		0	N.D.		
5) Bromomethane	2.260	94	1382	0.300	ug/L	88
6) Chloroethane	0.000		0	N.D.		
7) Trichlorofluoromethane	0.000		0	N.D.		
10) 1,1-Dichloroethene	0.000		0	N.D.		
11) Carbon disulfide	3.031	76	176	N.D.		
12) Freon-113	0.000		0	N.D.		
15) Methylene chloride	3.566	84	65	N.D.		
17) Acetone	0.000		0	N.D. d		
18) trans-1,2-Dichloroethene	0.000		0	N.D.		
19) Methyl acetate	0.000		0	N.D. d		
20) Methyl tert-butyl ether	0.000		0	N.D.		
23) 1,1-Dichloroethane	0.000		0	N.D.		
28) cis-1,2-Dichloroethene	0.000		0	N.D.		
30) Bromochloromethane	0.000		0	N.D.		
31) Cyclohexane	0.000		0	N.D.		
32) Chloroform	0.000		0	N.D.		
34) Carbon tetrachloride	0.000		0	N.D.		

Data Path : K:\VOA108\2024\240623A\
Data File : V08240623A25.d
Acq On : 23 Jun 2024 8:37 pm
Operator : VOA108:PID
Sample : L2434679-06,31,10,10,,A
Misc : WG1938519,ICAL21127
ALS Vial : 25 Sample Multiplier: 1

Quant Time: Jun 24 11:14:51 2024
Quant Method : K:\VOA108\2024\240623A\V108_240514N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed May 15 09:35:21 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA108\2024\240623A\V08240623A01.d
Sub List : 8260-NY_R2 - NYSOM01.2 + NYSTARS

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
37)	1,1,1-Trichloroethane	0.000		0		N.D.	
39)	2-Butanone	0.000		0		N.D.	
41)	Benzene	0.000		0		N.D.	
44)	1,2-Dichloroethane	0.000		0		N.D.	
47)	Methyl cyclohexane	0.000		0		N.D.	
48)	Trichloroethene	0.000		0		N.D.	
51)	1,2-Dichloropropane	0.000		0		N.D.	
54)	Bromodichloromethane	0.000		0		N.D.	
57)	1,4-Dioxane	0.000		0		N.D.	
58)	cis-1,3-Dichloropropene	0.000		0		N.D.	
61)	Toluene	0.000		0		N.D.	
62)	4-Methyl-2-pentanone	0.000		0		N.D.	
63)	Tetrachloroethene	0.000		0		N.D.	
65)	trans-1,3-Dichloropropene	0.000		0		N.D.	
68)	1,1,2-Trichloroethane	0.000		0		N.D.	
69)	Chlorodibromomethane	0.000		0		N.D.	
71)	1,2-Dibromoethane	0.000		0		N.D.	
72)	2-Hexanone	0.000		0		N.D.	
73)	Chlorobenzene	0.000		0		N.D.	
74)	Ethylbenzene	9.580	91	424		N.D.	
76)	p/m Xylene	0.000		0		N.D.	
77)	o Xylene	0.000		0		N.D.	
78)	Styrene	0.000		0		N.D.	
80)	Bromoform	0.000		0		N.D.	
82)	Isopropylbenzene	0.000		0		N.D.	
87)	1,1,2,2-Tetrachloroethane	0.000		0		N.D.	
100)	1,3-Dichlorobenzene	0.000		0		N.D.	
101)	1,4-Dichlorobenzene	0.000		0		N.D.	
104)	1,2-Dichlorobenzene	0.000		0		N.D.	
106)	1,2-Dibromo-3-chloropr...	0.000		0		N.D.	
109)	1,2,4-Trichlorobenzene	0.000		0		N.D.	
111)	1,2,3-Trichlorobenzene	0.000		0		N.D.	

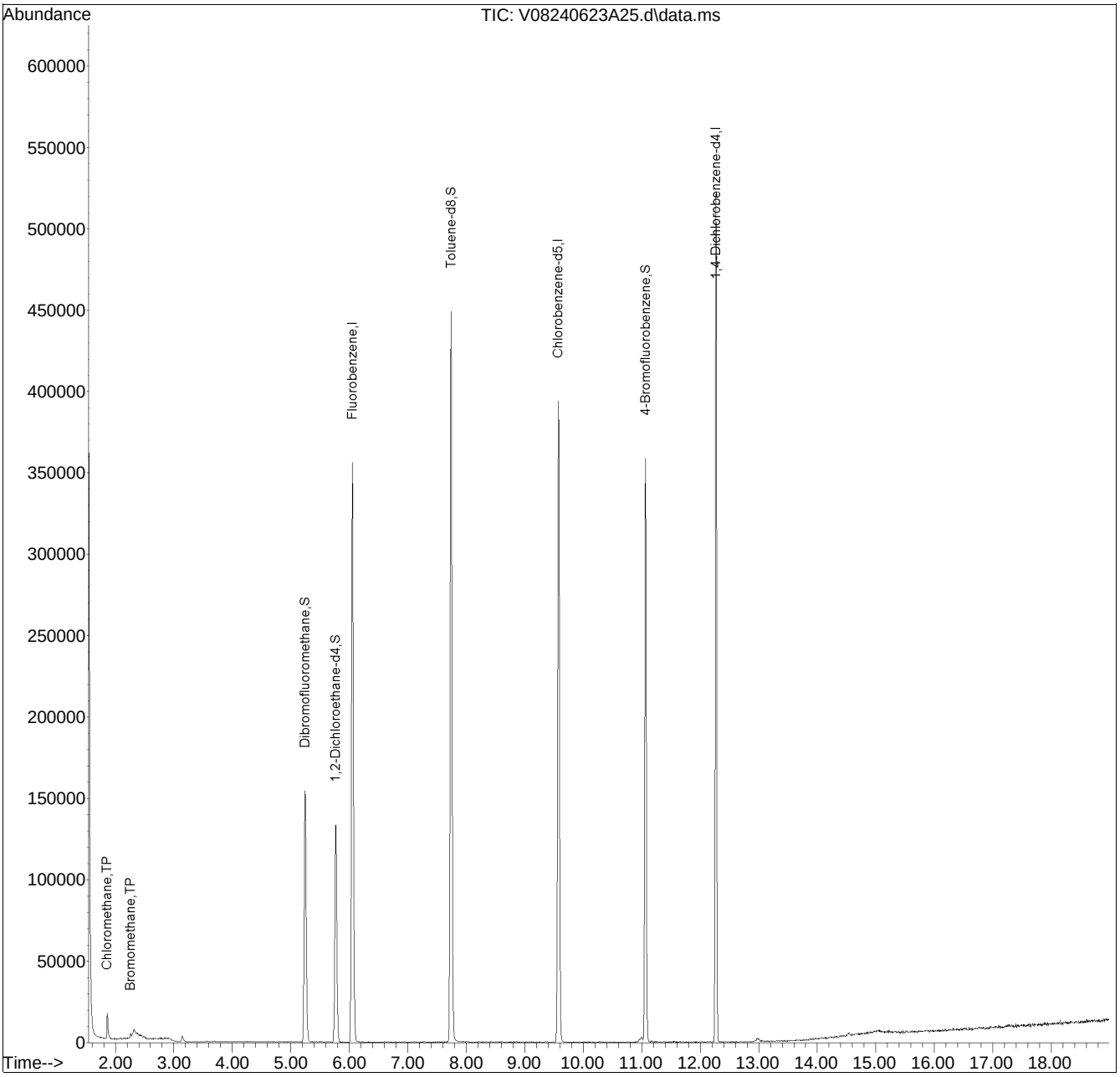
(#) = qualifier out of range (m) = manual integration (+) = signals summed

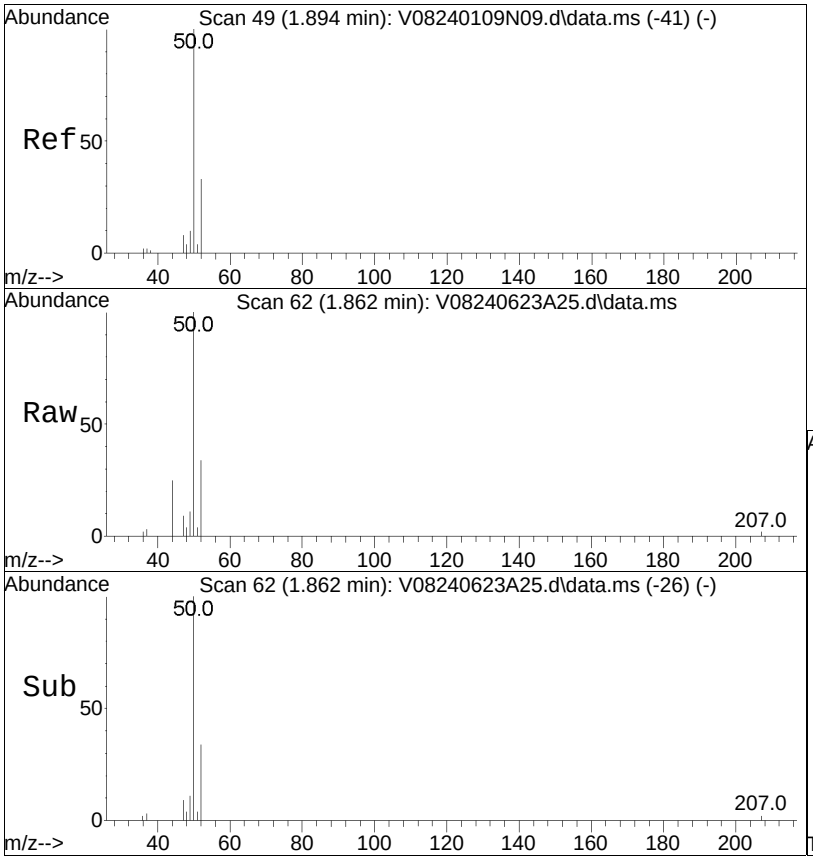
Quantitation Report (QT Reviewed)

Data Path : K:\VOA108\2024\240623A\
Data File : V08240623A25.d
Acq On : 23 Jun 2024 8:37 pm
Operator : VOA108:PID
Sample : L2434679-06,31,10,10,,A
Misc : WG1938519,ICAL21127
ALS Vial : 25 Sample Multiplier: 1

Quant Time: Jun 24 11:14:51 2024
Quant Method : K:\VOA108\2024\240623A\V108_240514N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed May 15 09:35:21 2024
Response via : Initial Calibration

Sub List : 8260-NY_R2 - NYSOM01.2 + NYSTARS0623A01.d•

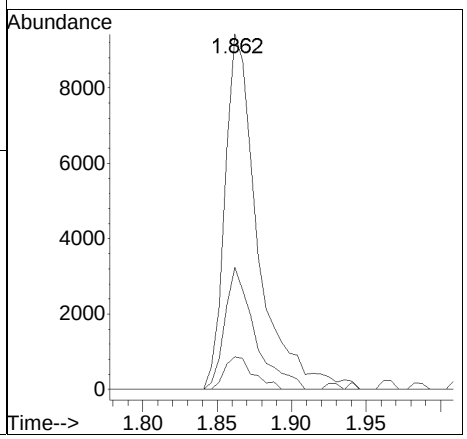


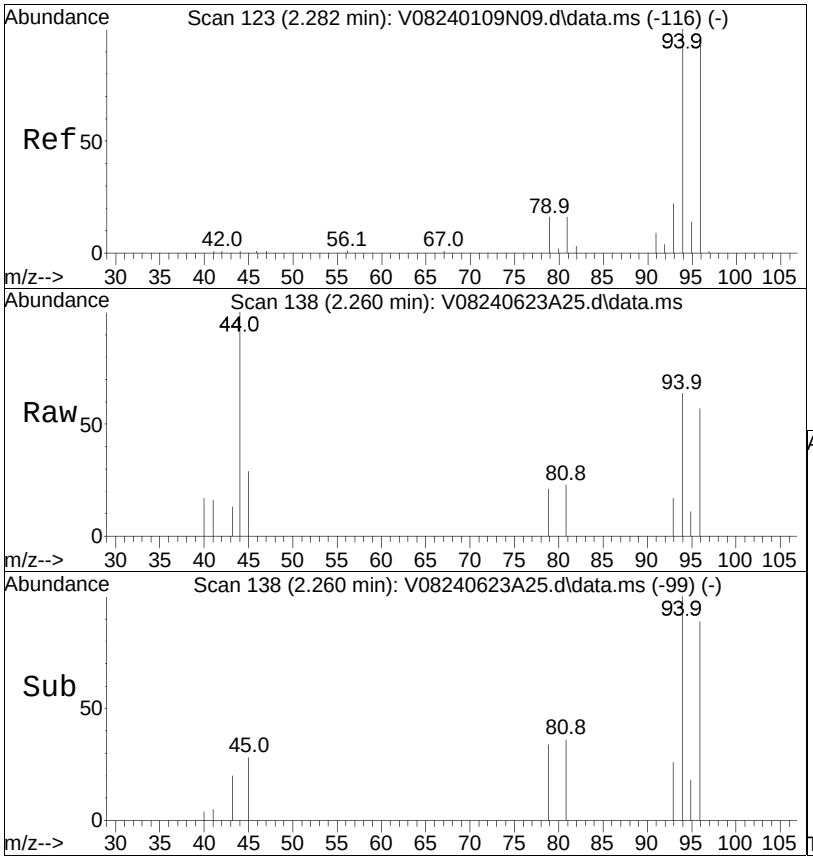


#3
Chloromethane
Concen: 1.70 ug/L
RT: 1.862 min Scan# 62
Delta R.T. -0.010 min
Lab File: V08240623A25.d
Acq: 23 Jun 2024 8:37 pm

Tgt Ion: 50 Resp: 14561

Ion	Ratio	Lower	Upper
50	100		
52	31.4	12.9	52.9
47	8.0	0.0	28.3

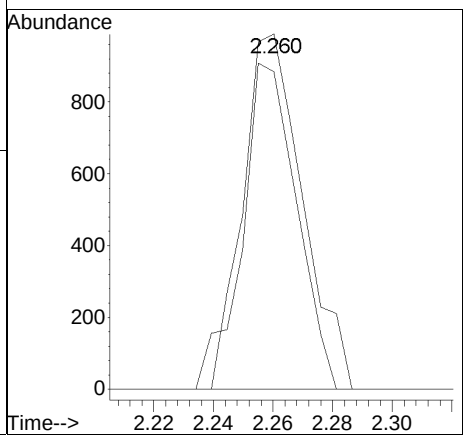




#5
Bromomethane
Concen: 0.30 ug/L
RT: 2.260 min Scan# 138
Delta R.T. 0.005 min
Lab File: V08240623A25.d
Acq: 23 Jun 2024 8:37 pm

Tgt Ion: 94 Resp: 1382

Ion	Ratio	Lower	Upper
94	100		
96	83.6	75.6	115.6



Manual Integration Report

Data Path	: K:\VOA108\2024\240623A\	QMethod	: V108_240514N_8260.m
Data File	: V08240623A25.d	Operator	: VOA108:PID
Date Inj'd	: 6/23/2024 8:37 pm	Instrument	: VOA 108
Sample	: L2434679-06,31,10,10,,A	Quant Date	: 6/24/2024 11:05 am

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

Quantitation Report (QT Reviewed)

Data Path : K:\VOA108\2024\240623A\
Data File : V08240623A26.d
Acq On : 23 Jun 2024 8:59 pm
Operator : VOA108:PID
Sample : L2434679-07,31,10,10,,A
Misc : WG1938519,ICAL21127
ALS Vial : 26 Sample Multiplier: 1

Quant Time: Jun 24 11:15:01 2024
Quant Method : K:\VOA108\2024\240623A\V108_240514N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed May 15 09:35:21 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA108\2024\240623A\V08240623A01.d
Sub List : 8260-NY_R2 - NYSOM01.2 + NYSTARS

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	6.051	96	389125	10.000	ug/L	0.00
Standard Area 1 = 406145			Recovery = 95.81%			
59) Chlorobenzene-d5	9.580	117	287978	10.000	ug/L	0.00
Standard Area 1 = 302664			Recovery = 95.15%			
79) 1,4-Dichlorobenzene-d4	12.269	152	128890	10.000	ug/L	0.00
Standard Area 1 = 142503			Recovery = 90.45%			
System Monitoring Compounds						
36) Dibromofluoromethane	5.244	113	114166	10.700	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 107.00%			
43) 1,2-Dichloroethane-d4	5.768	65	122255	10.238	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 102.38%			
60) Toluene-d8	7.739	98	383559	10.147	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 101.47%			
83) 4-Bromofluorobenzene	11.063	95	130931	10.668	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 106.68%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	0.000		0	N.D.		
3) Chloromethane	1.862	50	15354	1.663	ug/L	97
4) Vinyl chloride	0.000		0	N.D.		
5) Bromomethane	2.255	94	1438	0.290	ug/L	96
6) Chloroethane	0.000		0	N.D.		
7) Trichlorofluoromethane	0.000		0	N.D.		
10) 1,1-Dichloroethene	0.000		0	N.D.		
11) Carbon disulfide	3.036	76	50	N.D.		
12) Freon-113	0.000		0	N.D.		
15) Methylene chloride	3.561	84	151	N.D.		
17) Acetone	0.000		0	N.D. d		
18) trans-1,2-Dichloroethene	0.000		0	N.D.		
19) Methyl acetate	0.000		0	N.D. d		
20) Methyl tert-butyl ether	0.000		0	N.D.		
23) 1,1-Dichloroethane	0.000		0	N.D.		
28) cis-1,2-Dichloroethene	0.000		0	N.D.		
30) Bromochloromethane	0.000		0	N.D.		
31) Cyclohexane	0.000		0	N.D.		
32) Chloroform	5.071	83	52	N.D.		
34) Carbon tetrachloride	0.000		0	N.D.		

Data Path : K:\VOA108\2024\240623A\
Data File : V08240623A26.d
Acq On : 23 Jun 2024 8:59 pm
Operator : VOA108:PID
Sample : L2434679-07,31,10,10,,A
Misc : WG1938519,ICAL21127
ALS Vial : 26 Sample Multiplier: 1

Quant Time: Jun 24 11:15:01 2024
Quant Method : K:\VOA108\2024\240623A\V108_240514N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed May 15 09:35:21 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA108\2024\240623A\V08240623A01.d
Sub List : 8260-NY_R2 - NYSOM01.2 + NYSTARS

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
37)	1,1,1-Trichloroethane	0.000		0	N.D.		
39)	2-Butanone	0.000		0	N.D.	d	
41)	Benzene	0.000		0	N.D.		
44)	1,2-Dichloroethane	0.000		0	N.D.		
47)	Methyl cyclohexane	0.000		0	N.D.		
48)	Trichloroethene	0.000		0	N.D.		
51)	1,2-Dichloropropane	0.000		0	N.D.		
54)	Bromodichloromethane	0.000		0	N.D.		
57)	1,4-Dioxane	0.000		0	N.D.		
58)	cis-1,3-Dichloropropene	0.000		0	N.D.		
61)	Toluene	0.000		0	N.D.		
62)	4-Methyl-2-pentanone	0.000		0	N.D.		
63)	Tetrachloroethene	0.000		0	N.D.		
65)	trans-1,3-Dichloropropene	0.000		0	N.D.		
68)	1,1,2-Trichloroethane	0.000		0	N.D.		
69)	Chlorodibromomethane	0.000		0	N.D.		
71)	1,2-Dibromoethane	0.000		0	N.D.		
72)	2-Hexanone	0.000		0	N.D.		
73)	Chlorobenzene	0.000		0	N.D.		
74)	Ethylbenzene	9.574	91	461	N.D.		
76)	p/m Xylene	0.000		0	N.D.		
77)	o Xylene	0.000		0	N.D.		
78)	Styrene	0.000		0	N.D.		
80)	Bromoform	0.000		0	N.D.		
82)	Isopropylbenzene	0.000		0	N.D.		
87)	1,1,2,2-Tetrachloroethane	0.000		0	N.D.		
100)	1,3-Dichlorobenzene	0.000		0	N.D.		
101)	1,4-Dichlorobenzene	0.000		0	N.D.		
104)	1,2-Dichlorobenzene	0.000		0	N.D.		
106)	1,2-Dibromo-3-chloropr...	0.000		0	N.D.		
109)	1,2,4-Trichlorobenzene	0.000		0	N.D.		
111)	1,2,3-Trichlorobenzene	0.000		0	N.D.		

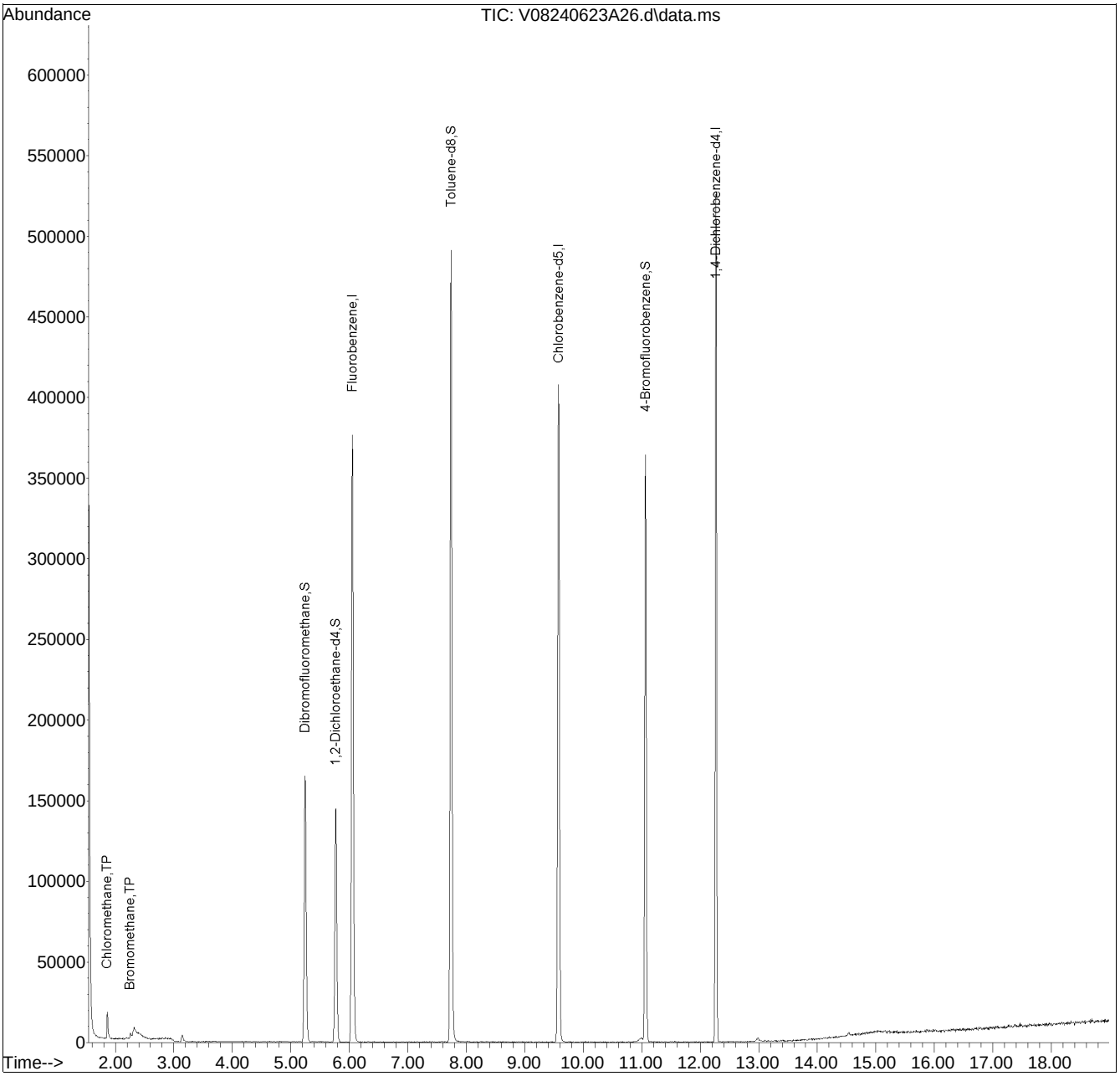
(#) = qualifier out of range (m) = manual integration (+) = signals summed

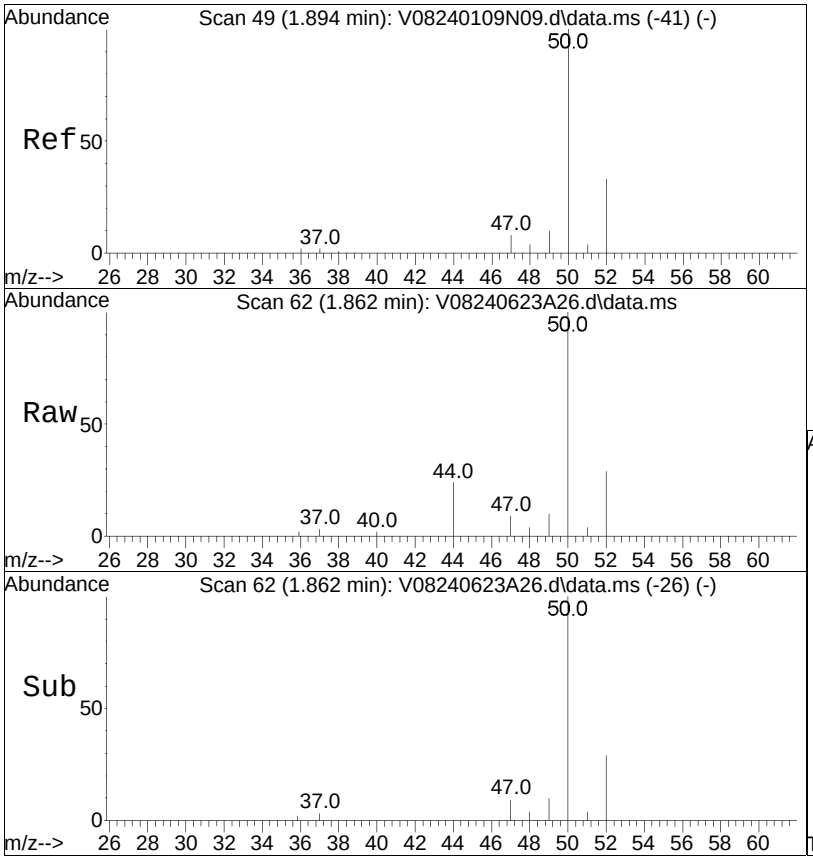
Quantitation Report (QT Reviewed)

Data Path : K:\VOA108\2024\240623A\
Data File : V08240623A26.d
Acq On : 23 Jun 2024 8:59 pm
Operator : VOA108:PID
Sample : L2434679-07,31,10,10,,A
Misc : WG1938519,ICAL21127
ALS Vial : 26 Sample Multiplier: 1

Quant Time: Jun 24 11:15:01 2024
Quant Method : K:\VOA108\2024\240623A\V108_240514N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed May 15 09:35:21 2024
Response via : Initial Calibration

Sub List : 8260-NY_R2 - NYSOM01.2 + NYSTARS0623A01.d•

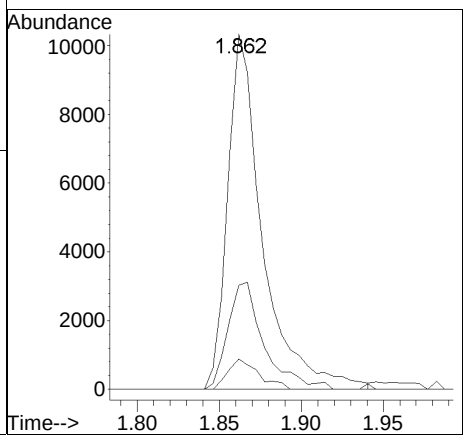


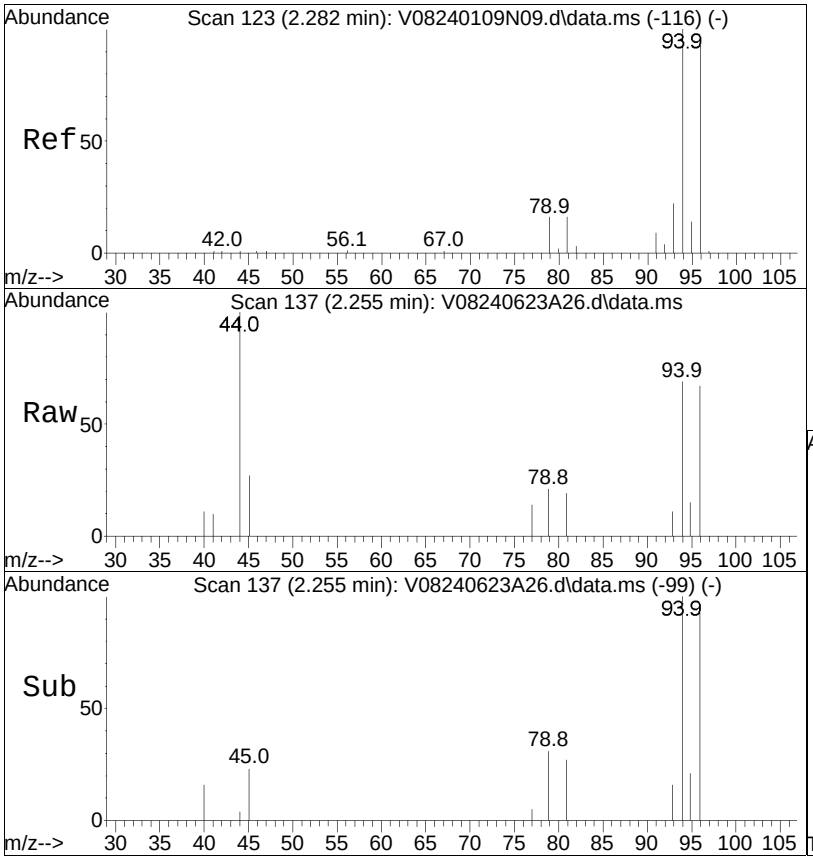


#3
Chloromethane
Concen: 1.66 ug/L
RT: 1.862 min Scan# 62
Delta R.T. -0.010 min
Lab File: V08240623A26.d
Acq: 23 Jun 2024 8:59 pm

Tgt Ion: 50 Resp: 15354

Ion	Ratio	Lower	Upper
50	100		
52	31.1	12.9	52.9
47	7.6	0.0	28.3

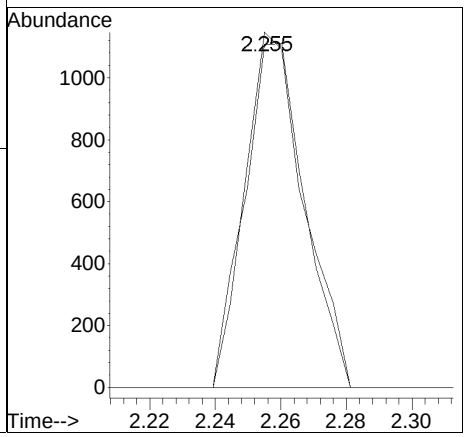




#5
Bromomethane
Concen: 0.29 ug/L
RT: 2.255 min Scan# 137
Delta R.T. 0.000 min
Lab File: V08240623A26.d
Acq: 23 Jun 2024 8:59 pm

Tgt Ion: 94 Resp: 1438

Ion	Ratio	Lower	Upper
94	100		
96	99.0	75.6	115.6



Manual Integration Report

Data Path	: K:\VOA108\2024\240623A\	QMethod	: V108_240514N_8260.m
Data File	: V08240623A26.d	Operator	: VOA108:PID
Date Inj'd	: 6/23/2024 8:59 pm	Instrument	: VOA 108
Sample	: L2434679-07,31,10,10,,A	Quant Date	: 6/24/2024 11:05 am

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

Quantitation Report (QT Reviewed)

Data Path : K:\Gonzo\2024\240624A\
Data File : VG240624A08.D
Acq On : 24 Jun 2024 10:50 am
Operator : GONZO:PID
Sample : L2434679-08,31,10,10,,A
Misc : WG1938990,ICAL21111 (Sig #1); WG,ICAL21111 (Sig #2)
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jun 24 12:09:40 2024
Quant Method : K:\Gonzo\2024\240624A\G_240509A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Fri May 10 11:02:54 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\Gonzo\2024\240624A\VG240624A01.D
Sub List : 8260-NY_R2 - NYSOM01.2 + NYSTARS

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	6.094	96	483860	10.000	ug/L	0.00
Standard Area 1 = 645622			Recovery = 74.94%			
59) Chlorobenzene-d5	9.637	117	366536	10.000	ug/L	0.00
Standard Area 1 = 484370			Recovery = 75.67%			
79) 1,4-Dichlorobenzene-d4	12.327	152	194606	10.000	ug/L	0.00
Standard Area 1 = 249984			Recovery = 77.85%			
System Monitoring Compounds						
36) Dibromofluoromethane	5.288	113	120877	9.755	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 97.55%			
43) 1,2-Dichloroethane-d4	5.820	65	139806	9.404	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 94.04%			
60) Toluene-d8	7.793	98	452249	10.027	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 100.27%			
83) 4-Bromofluorobenzene	11.126	95	175345	11.204	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 112.04%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.505	85	575	N.D.		
3) Chloromethane	1.885	50	359	N.D.		
4) Vinyl chloride	0.000		0	N.D.		
5) Bromomethane	0.000		0	N.D.	d	
6) Chloroethane	0.000		0	N.D.		
7) Trichlorofluoromethane	0.000		0	N.D.		
10) 1,1-Dichloroethene	0.000		0	N.D.		
11) Carbon disulfide	3.055	76	821	N.D.		
12) Freon-113	0.000		0	N.D.		
15) Methylene chloride	3.587	84	475	N.D.		
17) Acetone	0.000		0	N.D.	d	
18) trans-1,2-Dichloroethene	0.000		0	N.D.		
19) Methyl acetate	3.761	43	71	N.D.		
20) Methyl tert-butyl ether	0.000		0	N.D.		
23) 1,1-Dichloroethane	0.000		0	N.D.		
28) cis-1,2-Dichloroethene	4.909	96	147	N.D.		
30) Bromochloromethane	0.000		0	N.D.		
31) Cyclohexane	0.000		0	N.D.		
32) Chloroform	5.121	83	292	N.D.		
34) Carbon tetrachloride	0.000		0	N.D.		

Data Path : K:\Gonzo\2024\240624A\
Data File : VG240624A08.D
Acq On : 24 Jun 2024 10:50 am
Operator : GONZO:PID
Sample : L2434679-08,31,10,10,,A
Misc : WG1938990,ICAL21111 (Sig #1); WG,ICAL21111 (Sig #2)
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jun 24 12:09:40 2024
Quant Method : K:\Gonzo\2024\240624A\G_240509A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Fri May 10 11:02:54 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\Gonzo\2024\240624A\VG240624A01.D
Sub List : 8260-NY_R2 - NYSOM01.2 + NYSTARS

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
37)	1,1,1-Trichloroethane	0.000		0	N.D.		
39)	2-Butanone	5.334	43	72	N.D.		
41)	Benzene	5.691	78	76	N.D.		
44)	1,2-Dichloroethane	0.000		0	N.D.	d	
47)	Methyl cyclohexane	0.000		0	N.D.		
48)	Trichloroethene	0.000		0	N.D.	d	
51)	1,2-Dichloropropane	0.000		0	N.D.		
54)	Bromodichloromethane	0.000		0	N.D.		
57)	1,4-Dioxane	0.000		0	N.D.		
58)	cis-1,3-Dichloropropene	0.000		0	N.D.		
61)	Toluene	7.851	92	240	N.D.		
62)	4-Methyl-2-pentanone	0.000		0	N.D.		
63)	Tetrachloroethene	0.000		0	N.D.		
65)	trans-1,3-Dichloropropene	0.000		0	N.D.		
68)	1,1,2-Trichloroethane	0.000		0	N.D.		
69)	Chlorodibromomethane	0.000		0	N.D.		
71)	1,2-Dibromoethane	0.000		0	N.D.		
72)	2-Hexanone	0.000		0	N.D.		
73)	Chlorobenzene	0.000		0	N.D.		
74)	Ethylbenzene	9.637	91	603	N.D.		
76)	p/m Xylene	0.000		0	N.D.		
77)	o Xylene	0.000		0	N.D.		
78)	Styrene	0.000		0	N.D.		
80)	Bromoform	0.000		0	N.D.		
82)	Isopropylbenzene	0.000		0	N.D.		
87)	1,1,2,2-Tetrachloroethane	0.000		0	N.D.		
100)	1,3-Dichlorobenzene	12.269	146	86	N.D.		
101)	1,4-Dichlorobenzene	12.269	146	86	N.D.		
104)	1,2-Dichlorobenzene	0.000		0	N.D.		
106)	1,2-Dibromo-3-chloropr...	0.000		0	N.D.		
109)	1,2,4-Trichlorobenzene	0.000		0	N.D.		
111)	1,2,3-Trichlorobenzene	0.000		0	N.D.		

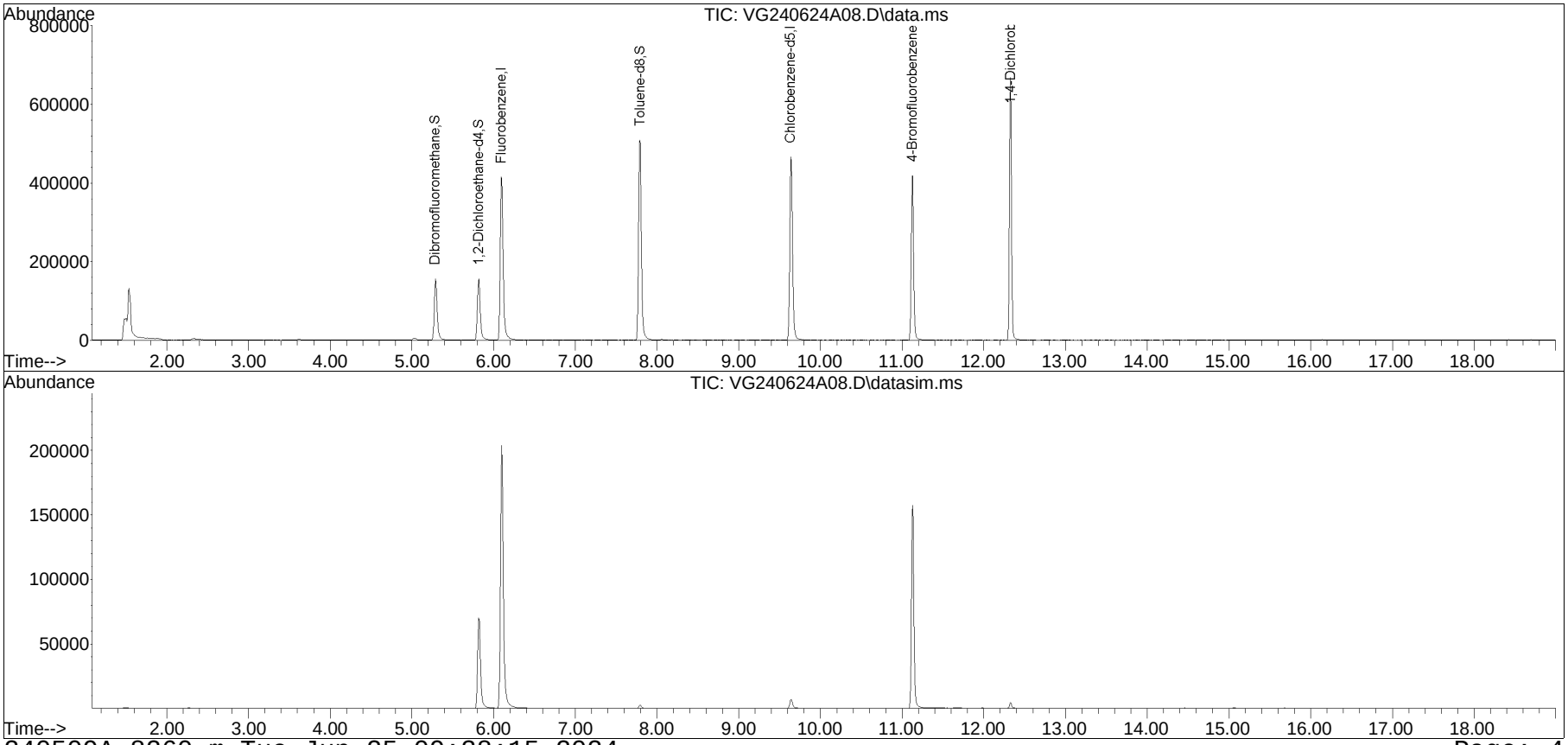
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : K:\Gonzo\2024\240624A\
Data File : VG240624A08.D
Acq On : 24 Jun 2024 10:50 am
Operator : GONZO:PID
Sample : L2434679-08,31,10,10,,A
Misc : WG1938990,ICAL21111 (Sig #1); WG,ICAL21111 (Sig #2)
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jun 24 12:09:40 2024
Quant Method : K:\Gonzo\2024\240624A\G_240509A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Fri May 10 11:02:54 2024
Response via : Initial Calibration

Sub List : 8260-NY_R2 - NYSOM01.2 + NYSTARS24A01.D•



Manual Integration Report

Data Path	: K:\Gonzo\2024\240624A\	QMethod	: G_240509A_8260.m
Data File	: VG240624A08.D	Operator	: GONZO:PID
Date Inj'd	: 6/24/2024 10:50 am	Instrument	: Gonzo
Sample	: L2434679-08,31,10,10,,A	Quant Date	: 6/24/2024 12:07 pm

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

Quantitation Report (QT Reviewed)

Data Path : K:\Gonzo\2024\240624A\
Data File : VG240624A09.D
Acq On : 24 Jun 2024 11:14 am
Operator : GONZO:PID
Sample : L2434679-09,31,10,10,,A
Misc : WG1938990,ICAL21111 (Sig #1); WG,ICAL21111 (Sig #2)
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jun 24 12:09:49 2024
Quant Method : K:\Gonzo\2024\240624A\G_240509A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Fri May 10 11:02:54 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\Gonzo\2024\240624A\VG240624A01.D
Sub List : 8260-NY_R2 - NYSOM01.2 + NYSTARS

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) Fluorobenzene	6.094	96	477407	10.000 ug/L	0.00
Standard Area 1 = 645622			Recovery = 73.95%		
59) Chlorobenzene-d5	9.637	117	362210	10.000 ug/L	0.00
Standard Area 1 = 484370			Recovery = 74.78%		
79) 1,4-Dichlorobenzene-d4	12.327	152	192600	10.000 ug/L	0.00
Standard Area 1 = 249984			Recovery = 77.04%		
System Monitoring Compounds					
36) Dibromofluoromethane	5.288	113	114234	9.343 ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 93.43%		
43) 1,2-Dichloroethane-d4	5.820	65	140292	9.564 ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 95.64%		
60) Toluene-d8	7.793	98	454886	10.206 ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 102.06%		
83) 4-Bromofluorobenzene	11.126	95	173466	11.200 ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 112.00%		
Target Compounds					Qvalue
2) Dichlorodifluoromethane	1.520	85	224	N.D.	
3) Chloromethane	1.877	50	83	N.D.	
4) Vinyl chloride	0.000		0	N.D.	
5) Bromomethane	0.000		0	N.D.	d
6) Chloroethane	0.000		0	N.D.	
7) Trichlorofluoromethane	0.000		0	N.D.	
10) 1,1-Dichloroethene	0.000		0	N.D.	
11) Carbon disulfide	3.055	76	1652	N.D.	
12) Freon-113	0.000		0	N.D.	
15) Methylene chloride	3.579	84	124	N.D.	
17) Acetone	0.000		0	N.D.	d
18) trans-1,2-Dichloroethene	0.000		0	N.D.	
19) Methyl acetate	3.738	43	81	N.D.	
20) Methyl tert-butyl ether	0.000		0	N.D.	
23) 1,1-Dichloroethane	0.000		0	N.D.	
28) cis-1,2-Dichloroethene	4.924	96	88	N.D.	
30) Bromochloromethane	0.000		0	N.D.	
31) Cyclohexane	0.000		0	N.D.	
32) Chloroform	0.000		0	N.D.	
34) Carbon tetrachloride	0.000		0	N.D.	

Data Path : K:\Gonzo\2024\240624A\
Data File : VG240624A09.D
Acq On : 24 Jun 2024 11:14 am
Operator : GONZO:PID
Sample : L2434679-09,31,10,10,,A
Misc : WG1938990,ICAL21111 (Sig #1); WG,ICAL21111 (Sig #2)
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jun 24 12:09:49 2024
Quant Method : K:\Gonzo\2024\240624A\G_240509A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Fri May 10 11:02:54 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\Gonzo\2024\240624A\VG240624A01.D
Sub List : 8260-NY_R2 - NYSOM01.2 + NYSTARS

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
37)	1,1,1-Trichloroethane	0.000		0	N.D.		
39)	2-Butanone	0.000		0	N.D.		
41)	Benzene	5.706	78	76	N.D.		
44)	1,2-Dichloroethane	0.000		0	N.D.	d	
47)	Methyl cyclohexane	0.000		0	N.D.		
48)	Trichloroethene	0.000		0	N.D.	d	
51)	1,2-Dichloropropane	0.000		0	N.D.		
54)	Bromodichloromethane	0.000		0	N.D.		
57)	1,4-Dioxane	0.000		0	N.D.		
58)	cis-1,3-Dichloropropene	0.000		0	N.D.		
61)	Toluene	7.843	92	267	N.D.		
62)	4-Methyl-2-pentanone	0.000		0	N.D.		
63)	Tetrachloroethene	0.000		0	N.D.		
65)	trans-1,3-Dichloropropene	0.000		0	N.D.		
68)	1,1,2-Trichloroethane	0.000		0	N.D.		
69)	Chlorodibromomethane	0.000		0	N.D.		
71)	1,2-Dibromoethane	0.000		0	N.D.		
72)	2-Hexanone	9.405	43	76	N.D.		
73)	Chlorobenzene	9.670	112	84	N.D.		
74)	Ethylbenzene	9.711	91	98	N.D.		
76)	p/m Xylene	0.000		0	N.D.		
77)	o Xylene	0.000		0	N.D.		
78)	Styrene	0.000		0	N.D.		
80)	Bromoform	0.000		0	N.D.		
82)	Isopropylbenzene	0.000		0	N.D.		
87)	1,1,2,2-Tetrachloroethane	0.000		0	N.D.		
100)	1,3-Dichlorobenzene	12.335	146	149	N.D.		
101)	1,4-Dichlorobenzene	12.335	146	149	N.D.		
104)	1,2-Dichlorobenzene	0.000		0	N.D.		
106)	1,2-Dibromo-3-chloropr...	0.000		0	N.D.		
109)	1,2,4-Trichlorobenzene	0.000		0	N.D.		
111)	1,2,3-Trichlorobenzene	14.647	180	76	N.D.		

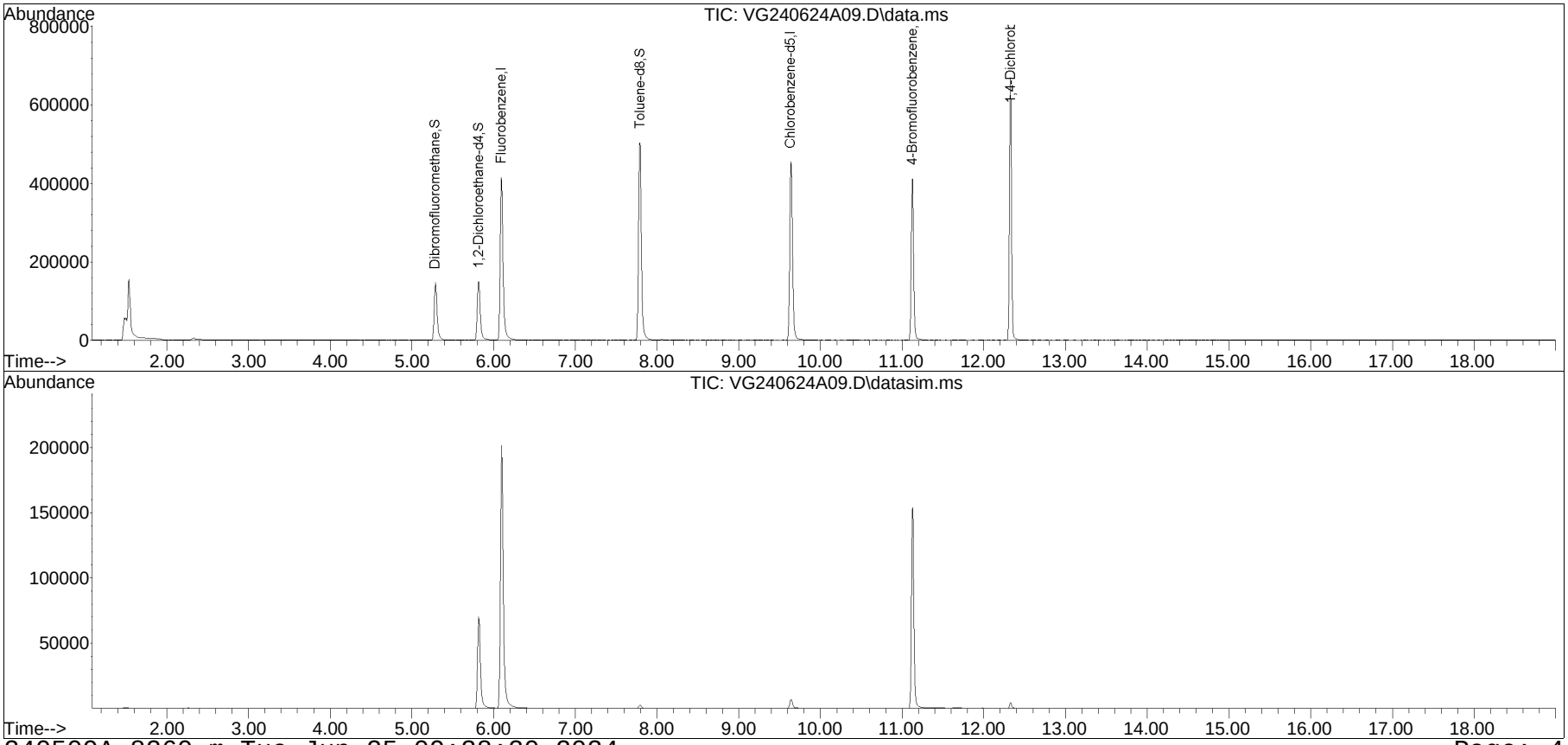
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : K:\Gonzo\2024\240624A\
Data File : VG240624A09.D
Acq On : 24 Jun 2024 11:14 am
Operator : GONZO:PID
Sample : L2434679-09,31,10,10,,A
Misc : WG1938990,ICAL21111 (Sig #1); WG,ICAL21111 (Sig #2)
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jun 24 12:09:49 2024
Quant Method : K:\Gonzo\2024\240624A\G_240509A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Fri May 10 11:02:54 2024
Response via : Initial Calibration

Sub List : 8260-NY_R2 - NYSOM01.2 + NYSTARS24A01.D•



Manual Integration Report

Data Path	: K:\Gonzo\2024\240624A\	QMethod	: G_240509A_8260.m
Data File	: VG240624A09.D	Operator	: GONZO:PID
Date Inj'd	: 6/24/2024 11:14 am	Instrument	: Gonzo
Sample	: L2434679-09,31,10,10,,A	Quant Date	: 6/24/2024 12:07 pm

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

Quantitation Report (QT Reviewed)

Data Path : K:\Gonzo\2024\240624A\
Data File : VG240624A10.D
Acq On : 24 Jun 2024 11:38 am
Operator : GONZO:PID
Sample : L2434679-10,31,10,10,,A
Misc : WG1938990,ICAL21111 (Sig #1); WG,ICAL21111 (Sig #2)
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jun 24 12:10:06 2024
Quant Method : K:\Gonzo\2024\240624A\G_240509A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Fri May 10 11:02:54 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\Gonzo\2024\240624A\VG240624A01.D
Sub List : 8260-NY_R2 - NYSOM01.2 + NYSTARS

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	6.094	96	468666	10.000	ug/L	0.00
Standard Area 1 = 645622			Recovery = 72.59%			
59) Chlorobenzene-d5	9.637	117	352926	10.000	ug/L	0.00
Standard Area 1 = 484370			Recovery = 72.86%			
79) 1,4-Dichlorobenzene-d4	12.327	152	184074	10.000	ug/L	0.00
Standard Area 1 = 249984			Recovery = 73.63%			
System Monitoring Compounds						
36) Dibromofluoromethane	5.288	113	113430	9.450	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 94.50%			
43) 1,2-Dichloroethane-d4	5.820	65	139501	9.687	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 96.87%			
60) Toluene-d8	7.786	98	442962	10.200	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 102.00%			
83) 4-Bromofluorobenzene	11.126	95	167544	11.318	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 113.18%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.490	85	393	N.D.		
3) Chloromethane	1.915	50	86	N.D.		
4) Vinyl chloride	0.000		0	N.D.		
5) Bromomethane	0.000		0	N.D.	d	
6) Chloroethane	0.000		0	N.D.		
7) Trichlorofluoromethane	0.000		0	N.D.		
10) 1,1-Dichloroethene	0.000		0	N.D.		
11) Carbon disulfide	3.055	76	1353	N.D.		
12) Freon-113	0.000		0	N.D.		
15) Methylene chloride	3.594	84	531	N.D.		
17) Acetone	0.000		0	N.D.	d	
18) trans-1,2-Dichloroethene	0.000		0	N.D.		
19) Methyl acetate	3.807	43	72	N.D.		
20) Methyl tert-butyl ether	3.822	73	78	N.D.		
23) 1,1-Dichloroethane	0.000		0	N.D.		
28) cis-1,2-Dichloroethene	0.000		0	N.D.		
30) Bromochloromethane	0.000		0	N.D.		
31) Cyclohexane	0.000		0	N.D.		
32) Chloroform	0.000		0	N.D.		
34) Carbon tetrachloride	0.000		0	N.D.		

Data Path : K:\Gonzo\2024\240624A\
Data File : VG240624A10.D
Acq On : 24 Jun 2024 11:38 am
Operator : GONZO:PID
Sample : L2434679-10,31,10,10,,A
Misc : WG1938990,ICAL21111 (Sig #1); WG,ICAL21111 (Sig #2)
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jun 24 12:10:06 2024
Quant Method : K:\Gonzo\2024\240624A\G_240509A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Fri May 10 11:02:54 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\Gonzo\2024\240624A\VG240624A01.D
Sub List : 8260-NY_R2 - NYSOM01.2 + NYSTARS

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
37)	1,1,1-Trichloroethane	0.000		0	N.D.		
39)	2-Butanone	0.000		0	N.D.		
41)	Benzene	0.000		0	N.D.		
44)	1,2-Dichloroethane	0.000		0	N.D.	d	
47)	Methyl cyclohexane	0.000		0	N.D.		
48)	Trichloroethene	0.000		0	N.D.	d	
51)	1,2-Dichloropropane	0.000		0	N.D.		
54)	Bromodichloromethane	0.000		0	N.D.		
57)	1,4-Dioxane	0.000		0	N.D.		
58)	cis-1,3-Dichloropropene	0.000		0	N.D.		
61)	Toluene	7.851	92	210	N.D.		
62)	4-Methyl-2-pentanone	0.000		0	N.D.		
63)	Tetrachloroethene	0.000		0	N.D.		
65)	trans-1,3-Dichloropropene	0.000		0	N.D.		
68)	1,1,2-Trichloroethane	0.000		0	N.D.		
69)	Chlorodibromomethane	0.000		0	N.D.		
71)	1,2-Dibromoethane	0.000		0	N.D.		
72)	2-Hexanone	0.000		0	N.D.		
73)	Chlorobenzene	9.678	112	90	N.D.		
74)	Ethylbenzene	9.637	91	778	N.D.		
76)	p/m Xylene	0.000		0	N.D.		
77)	o Xylene	0.000		0	N.D.		
78)	Styrene	0.000		0	N.D.		
80)	Bromoform	0.000		0	N.D.		
82)	Isopropylbenzene	0.000		0	N.D.		
87)	1,1,2,2-Tetrachloroethane	0.000		0	N.D.		
100)	1,3-Dichlorobenzene	0.000		0	N.D.		
101)	1,4-Dichlorobenzene	0.000		0	N.D.		
104)	1,2-Dichlorobenzene	0.000		0	N.D.		
106)	1,2-Dibromo-3-chloropr...	0.000		0	N.D.		
109)	1,2,4-Trichlorobenzene	0.000		0	N.D.		
111)	1,2,3-Trichlorobenzene	0.000		0	N.D.		

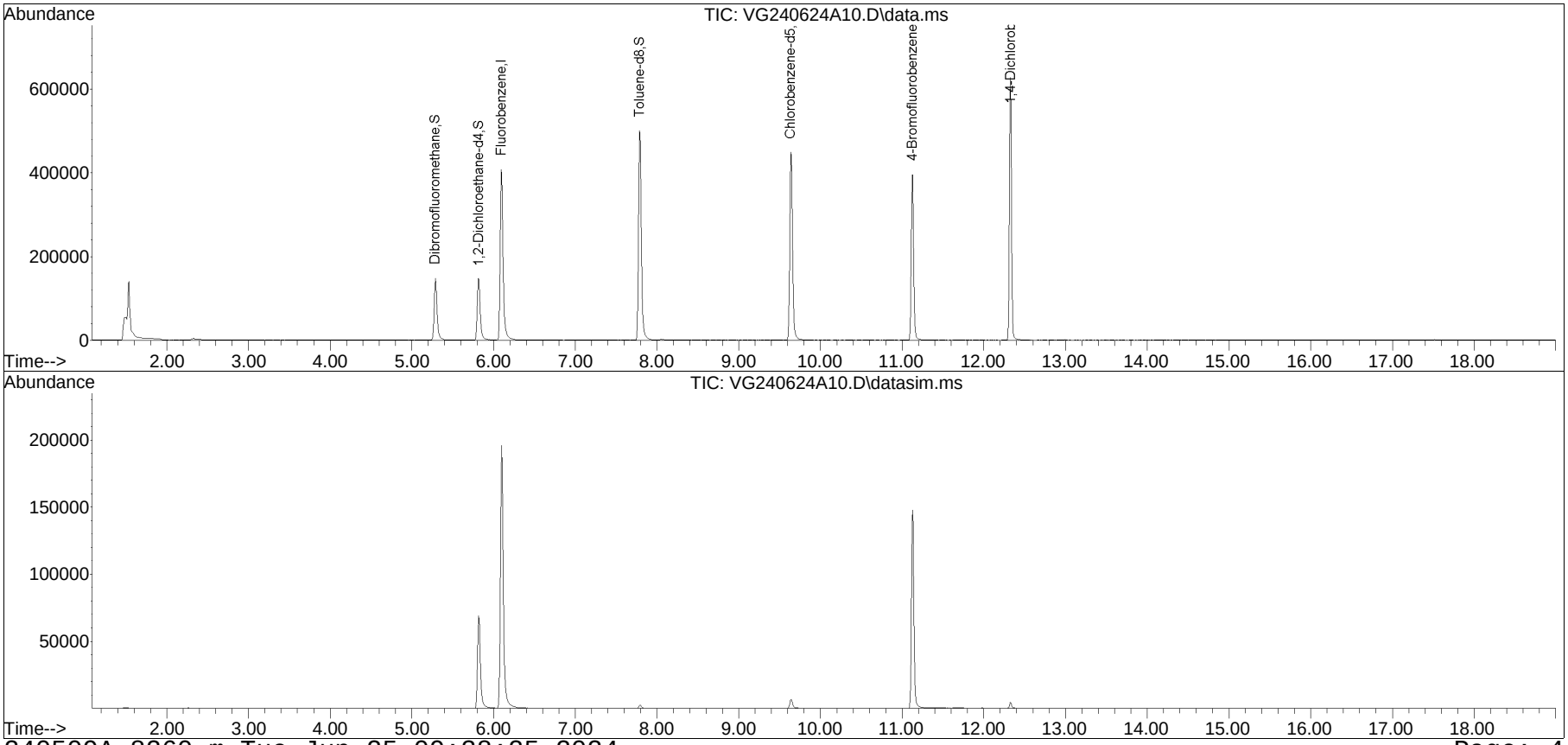
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : K:\Gonzo\2024\240624A\
Data File : VG240624A10.D
Acq On : 24 Jun 2024 11:38 am
Operator : GONZO:PID
Sample : L2434679-10,31,10,10,,A
Misc : WG1938990,ICAL21111 (Sig #1); WG,ICAL21111 (Sig #2)
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jun 24 12:10:06 2024
Quant Method : K:\Gonzo\2024\240624A\G_240509A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Fri May 10 11:02:54 2024
Response via : Initial Calibration

Sub List : 8260-NY_R2 - NYSOM01.2 + NYSTARS24A01.D•



Manual Integration Report

Data Path	: K:\Gonzo\2024\240624A\	QMethod	: G_240509A_8260.m
Data File	: VG240624A10.D	Operator	: GONZO:PID
Date Inj'd	: 6/24/2024 11:38 am	Instrument	: Gonzo
Sample	: L2434679-10,31,10,10,,A	Quant Date	: 6/24/2024 12:07 pm

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

Quantitation Report (QT Reviewed)

Data Path : K:\Gonzo\2024\240624A\
Data File : VG240624A11.D
Acq On : 24 Jun 2024 12:02 pm
Operator : GONZO:PID
Sample : L2434679-11,31,10,10,,A
Misc : WG1938990,ICAL21111 (Sig #1); WG,ICAL21111 (Sig #2)
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jun 24 12:36:17 2024
Quant Method : K:\Gonzo\2024\240624A\G_240509A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Fri May 10 11:02:54 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\Gonzo\2024\240624A\VG240624A01.D
Sub List : 8260-NY_R2 - NYSOM01.2 + NYSTARS

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) Fluorobenzene	6.094	96	435133	10.000 ug/L	0.00
Standard Area 1 = 645622			Recovery = 67.40%		
59) Chlorobenzene-d5	9.637	117	330166	10.000 ug/L	0.00
Standard Area 1 = 484370			Recovery = 68.16%		
79) 1,4-Dichlorobenzene-d4	12.327	152	170433	10.000 ug/L	0.00
Standard Area 1 = 249984			Recovery = 68.18%		
System Monitoring Compounds					
36) Dibromofluoromethane	5.289	113	105628	9.479 ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 94.79%		
43) 1,2-Dichloroethane-d4	5.820	65	129124	9.658 ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 96.58%		
60) Toluene-d8	7.793	98	408586	10.057 ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 100.57%		
83) 4-Bromofluorobenzene	11.126	95	156101	11.389 ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 113.89%		
Target Compounds					Qvalue
2) Dichlorodifluoromethane	1.520	85	168	N.D.	
3) Chloromethane	0.000		0	N.D.	
4) Vinyl chloride	0.000		0	N.D.	
5) Bromomethane	0.000		0	N.D.	d
6) Chloroethane	0.000		0	N.D.	
7) Trichlorofluoromethane	0.000		0	N.D.	
10) 1,1-Dichloroethene	0.000		0	N.D.	
11) Carbon disulfide	3.055	76	697	N.D.	
12) Freon-113	0.000		0	N.D.	
15) Methylene chloride	3.594	84	226	N.D.	
17) Acetone	0.000		0	N.D.	d
18) trans-1,2-Dichloroethene	0.000		0	N.D.	
19) Methyl acetate	3.693	43	213	N.D.	
20) Methyl tert-butyl ether	0.000		0	N.D.	
23) 1,1-Dichloroethane	0.000		0	N.D.	
28) cis-1,2-Dichloroethene	4.901	96	82	N.D.	
30) Bromochloromethane	0.000		0	N.D.	
31) Cyclohexane	0.000		0	N.D.	
32) Chloroform	5.114	83	385	N.D.	
34) Carbon tetrachloride	0.000		0	N.D.	

Data Path : K:\Gonzo\2024\240624A\
Data File : VG240624A11.D
Acq On : 24 Jun 2024 12:02 pm
Operator : GONZO:PID
Sample : L2434679-11,31,10,10,,A
Misc : WG1938990,ICAL21111 (Sig #1); WG,ICAL21111 (Sig #2)
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jun 24 12:36:17 2024
Quant Method : K:\Gonzo\2024\240624A\G_240509A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Fri May 10 11:02:54 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\Gonzo\2024\240624A\VG240624A01.D
Sub List : 8260-NY_R2 - NYSOM01.2 + NYSTARS

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) 1,1,1-Trichloroethane	0.000		0	N.D.		
39) 2-Butanone	5.478	43	69	N.D.		
41) Benzene	0.000		0	N.D.		
44) 1,2-Dichloroethane	0.000		0	N.D.	d	
47) Methyl cyclohexane	0.000		0	N.D.		
48) Trichloroethene	0.000		0	N.D.	d	
51) 1,2-Dichloropropane	0.000		0	N.D.		
54) Bromodichloromethane	0.000		0	N.D.		
57) 1,4-Dioxane	0.000		0	N.D.		
58) cis-1,3-Dichloropropene	0.000		0	N.D.		
61) Toluene	7.865	92	209	N.D.		
62) 4-Methyl-2-pentanone	0.000		0	N.D.		
63) Tetrachloroethene	0.000		0	N.D.		
65) trans-1,3-Dichloropropene	0.000		0	N.D.		
68) 1,1,2-Trichloroethane	0.000		0	N.D.		
69) Chlorodibromomethane	0.000		0	N.D.		
71) 1,2-Dibromoethane	0.000		0	N.D.		
72) 2-Hexanone	9.334	43	64	N.D.		
73) Chlorobenzene	0.000		0	N.D.		
74) Ethylbenzene	9.711	91	75	N.D.		
76) p/m Xylene	0.000		0	N.D.		
77) o Xylene	0.000		0	N.D.		
78) Styrene	0.000		0	N.D.		
80) Bromoform	0.000		0	N.D.		
82) Isopropylbenzene	0.000		0	N.D.		
87) 1,1,2,2-Tetrachloroethane	11.595	83	88	N.D.		
100) 1,3-Dichlorobenzene	0.000		0	N.D.		
101) 1,4-Dichlorobenzene	0.000		0	N.D.		
104) 1,2-Dichlorobenzene	0.000		0	N.D.		
106) 1,2-Dibromo-3-chloropr...	0.000		0	N.D.		
109) 1,2,4-Trichlorobenzene	0.000		0	N.D.		
111) 1,2,3-Trichlorobenzene	0.000		0	N.D.		

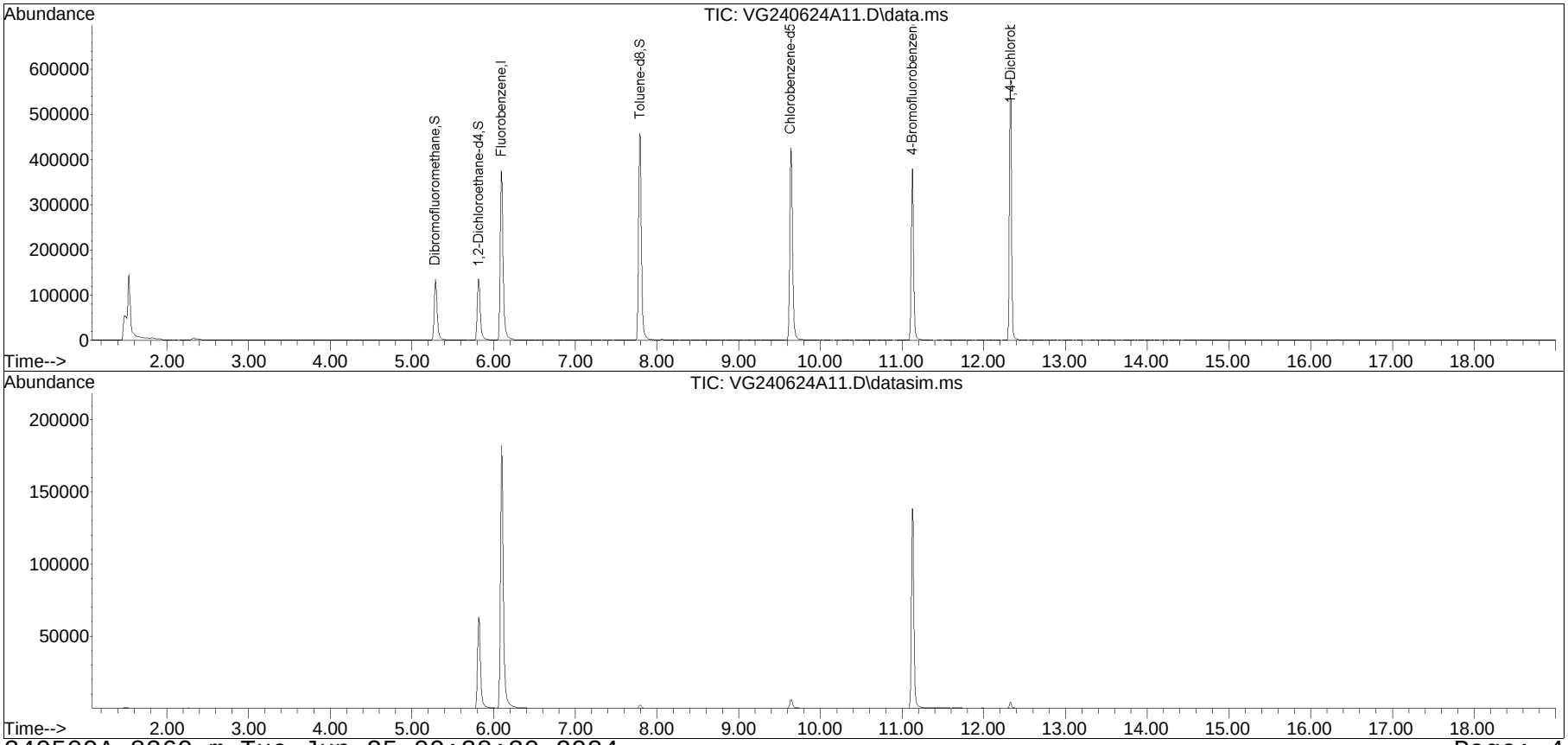
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : K:\Gonzo\2024\240624A\
Data File : VG240624A11.D
Acq On : 24 Jun 2024 12:02 pm
Operator : GONZO:PID
Sample : L2434679-11,31,10,10,,A
Misc : WG1938990,ICAL21111 (Sig #1); WG,ICAL21111 (Sig #2)
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jun 24 12:36:17 2024
Quant Method : K:\Gonzo\2024\240624A\G_240509A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Fri May 10 11:02:54 2024
Response via : Initial Calibration

Sub List : 8260-NY_R2 - NYSOM01.2 + NYSTARS24A01.D•



Manual Integration Report

Data Path	: K:\Gonzo\2024\240624A\	QMethod	: G_240509A_8260.m
Data File	: VG240624A11.D	Operator	: GONZO:PID
Date Inj'd	: 6/24/2024 12:02 pm	Instrument	: Gonzo
Sample	: L2434679-11,31,10,10,,A	Quant Date	: 6/24/2024 12:35 pm

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

Quantitation Report (QT Reviewed)

Data Path : K:\Gonzo\2024\240624A\
Data File : VG240624A12.D
Acq On : 24 Jun 2024 12:26 pm
Operator : GONZO:PID
Sample : L2434679-14,31,10,10,,A
Misc : WG1938990,ICAL21111 (Sig #1); WG,ICAL21111 (Sig #2)
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jun 24 13:08:14 2024
Quant Method : K:\Gonzo\2024\240624A\G_240509A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Fri May 10 11:02:54 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\Gonzo\2024\240624A\VG240624A01.D
Sub List : 8260-NY_R2 - NYSOM01.2 + NYSTARS

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	6.101	96	434963	10.000	ug/L	0.00
Standard Area 1 = 645622			Recovery = 67.37%			
59) Chlorobenzene-d5	9.645	117	335845	10.000	ug/L	0.00
Standard Area 1 = 484370			Recovery = 69.34%			
79) 1,4-Dichlorobenzene-d4	12.327	152	175906	10.000	ug/L	0.00
Standard Area 1 = 249984			Recovery = 70.37%			
System Monitoring Compounds						
36) Dibromofluoromethane	5.288	113	107864	9.683	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 96.83%			
43) 1,2-Dichloroethane-d4	5.820	65	129619	9.699	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 96.99%			
60) Toluene-d8	7.793	98	413133	9.997	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 99.97%			
83) 4-Bromofluorobenzene	11.126	95	161450	11.413	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 114.13%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.513	85	371	N.D.		
3) Chloromethane	1.870	50	479	N.D.		
4) Vinyl chloride	0.000		0	N.D.		
5) Bromomethane	0.000		0	N.D.	d	
6) Chloroethane	0.000		0	N.D.		
7) Trichlorofluoromethane	0.000		0	N.D.		
10) 1,1-Dichloroethene	0.000		0	N.D.		
11) Carbon disulfide	3.063	76	824	N.D.		
12) Freon-113	0.000		0	N.D.		
15) Methylene chloride	3.587	84	121	N.D.		
17) Acetone	3.648	43	1842M6	0.765	ug/L	
18) trans-1,2-Dichloroethene	0.000		0	N.D.		
19) Methyl acetate	3.822	43	70	N.D.		
20) Methyl tert-butyl ether	0.000		0	N.D.		
23) 1,1-Dichloroethane	0.000		0	N.D.		
28) cis-1,2-Dichloroethene	0.000		0	N.D.		
30) Bromochloromethane	0.000		0	N.D.		
31) Cyclohexane	0.000		0	N.D.		
32) Chloroform	0.000		0	N.D.		
34) Carbon tetrachloride	0.000		0	N.D.		

Data Path : K:\Gonzo\2024\240624A\
Data File : VG240624A12.D
Acq On : 24 Jun 2024 12:26 pm
Operator : GONZO:PID
Sample : L2434679-14,31,10,10,,A
Misc : WG1938990,ICAL21111 (Sig #1); WG,ICAL21111 (Sig #2)
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jun 24 13:08:14 2024
Quant Method : K:\Gonzo\2024\240624A\G_240509A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Fri May 10 11:02:54 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\Gonzo\2024\240624A\VG240624A01.D
Sub List : 8260-NY_R2 - NYSOM01.2 + NYSTARS

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
37)	1,1,1-Trichloroethane	0.000		0	N.D.		
39)	2-Butanone	5.387	43	76	N.D.		
41)	Benzene	0.000		0	N.D.		
44)	1,2-Dichloroethane	0.000		0	N.D.	d	
47)	Methyl cyclohexane	0.000		0	N.D.		
48)	Trichloroethene	0.000		0	N.D.	d	
51)	1,2-Dichloropropane	0.000		0	N.D.		
54)	Bromodichloromethane	0.000		0	N.D.		
57)	1,4-Dioxane	0.000		0	N.D.		
58)	cis-1,3-Dichloropropene	0.000		0	N.D.		
61)	Toluene	7.865	92	617	N.D.		
62)	4-Methyl-2-pentanone	0.000		0	N.D.		
63)	Tetrachloroethene	0.000		0	N.D.		
65)	trans-1,3-Dichloropropene	0.000		0	N.D.		
68)	1,1,2-Trichloroethane	0.000		0	N.D.		
69)	Chlorodibromomethane	0.000		0	N.D.		
71)	1,2-Dibromoethane	0.000		0	N.D.		
72)	2-Hexanone	0.000		0	N.D.		
73)	Chlorobenzene	0.000		0	N.D.		
74)	Ethylbenzene	9.645	91	570	N.D.		
76)	p/m Xylene	0.000		0	N.D.		
77)	o Xylene	0.000		0	N.D.		
78)	Styrene	0.000		0	N.D.		
80)	Bromoform	0.000		0	N.D.		
82)	Isopropylbenzene	0.000		0	N.D.		
87)	1,1,2,2-Tetrachloroethane	0.000		0	N.D.		
100)	1,3-Dichlorobenzene	12.335	146	84	N.D.		
101)	1,4-Dichlorobenzene	12.335	146	84	N.D.		
104)	1,2-Dichlorobenzene	0.000		0	N.D.		
106)	1,2-Dibromo-3-chloropr...	0.000		0	N.D.		
109)	1,2,4-Trichlorobenzene	0.000		0	N.D.		
111)	1,2,3-Trichlorobenzene	0.000		0	N.D.		

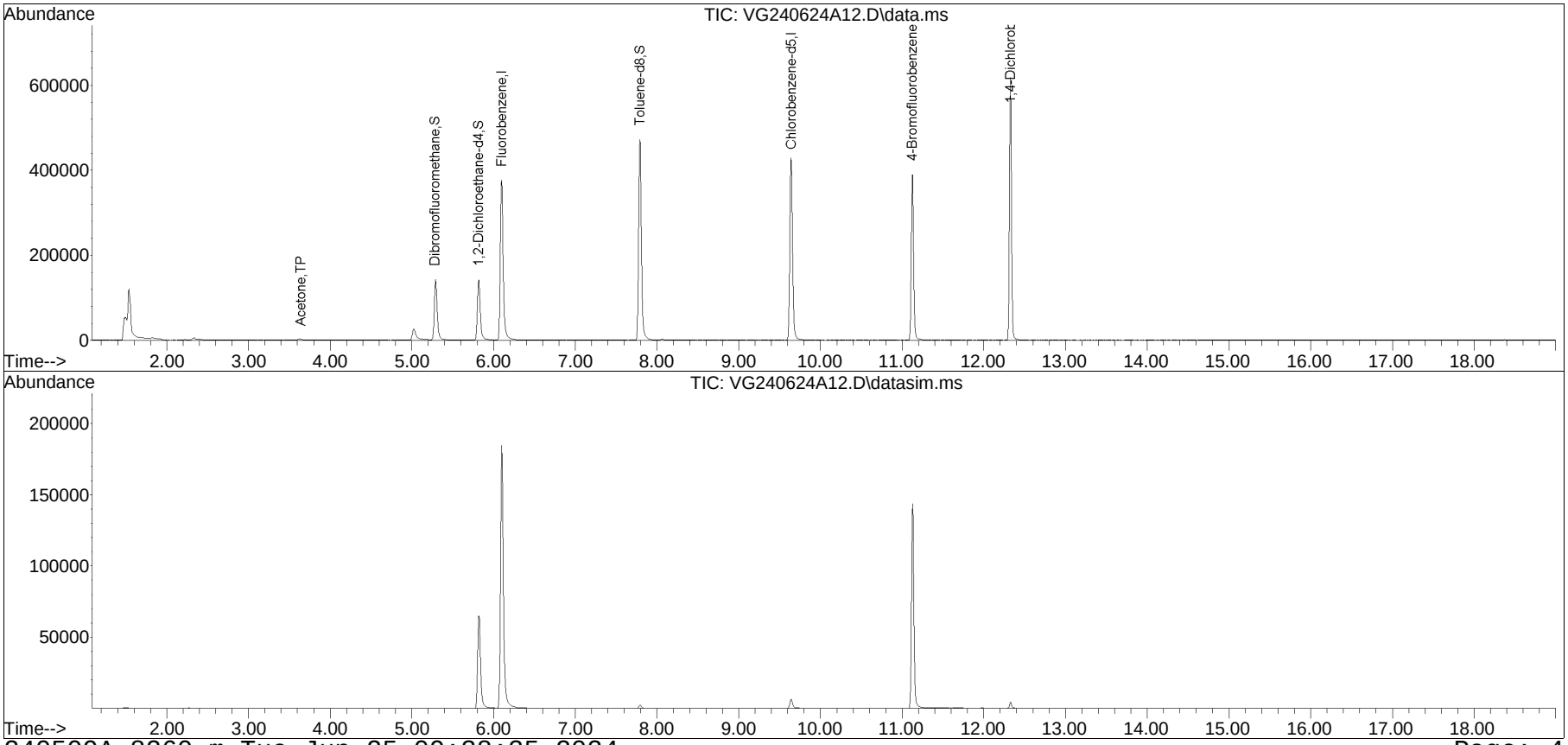
(#) = qualifier out of range (m) = manual integration (+) = signals summed

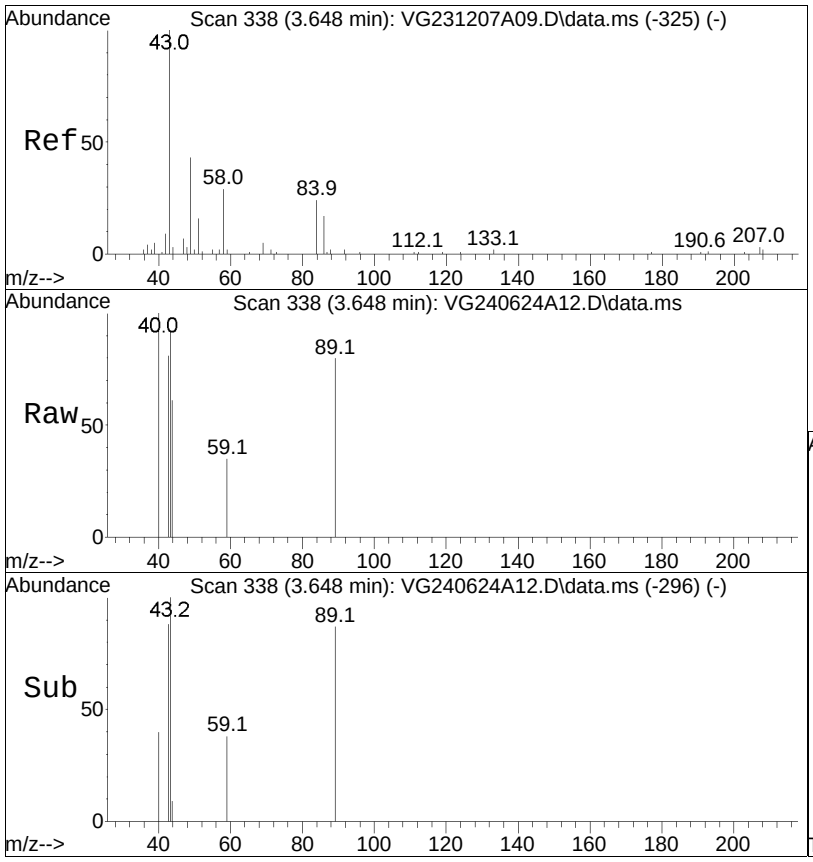
Quantitation Report (QT Reviewed)

Data Path : K:\Gonzo\2024\240624A\
Data File : VG240624A12.D
Acq On : 24 Jun 2024 12:26 pm
Operator : GONZO:PID
Sample : L2434679-14,31,10,10,,A
Misc : WG1938990,ICAL21111 (Sig #1); WG,ICAL21111 (Sig #2)
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jun 24 13:08:14 2024
Quant Method : K:\Gonzo\2024\240624A\G_240509A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Fri May 10 11:02:54 2024
Response via : Initial Calibration

Sub List : 8260-NY_R2 - NYSOM01.2 + NYSTARS24A01.D•

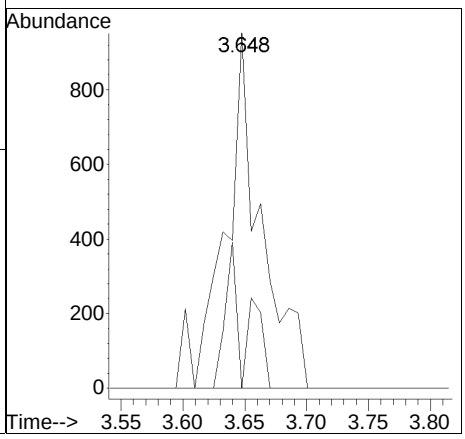




#17
Acetone
Concen: 0.76 ug/L M6
RT: 3.648 min Scan# 338
Delta R.T. 0.022 min
Lab File: VG240624A12.D
Acq: 24 Jun 2024 12:26 pm

Tgt Ion: 43 Resp: 1842

Ion	Ratio	Lower	Upper
43	100		
58	13.5	22.2	33.4#

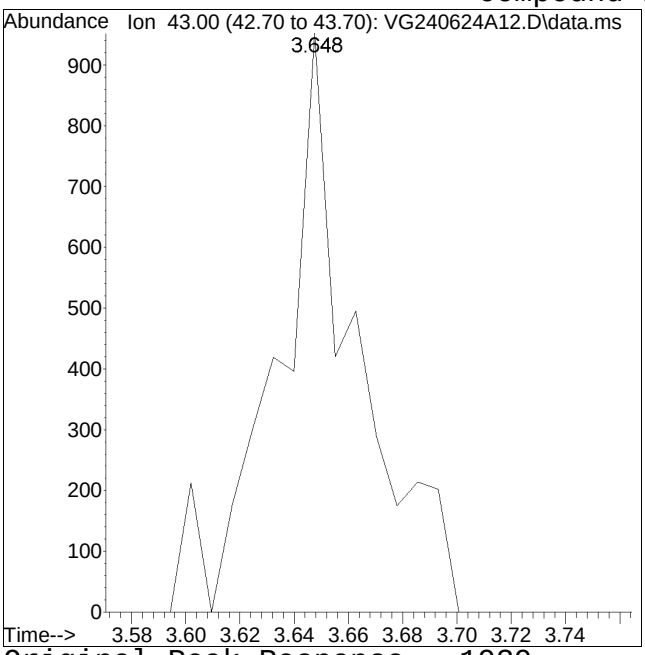


Manual Integration Report

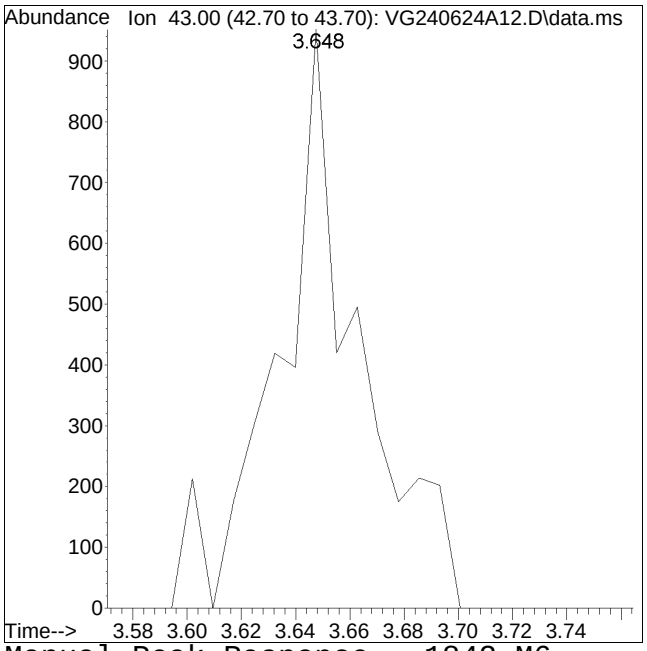
Data Path : K:\Gonzo\2024\240624A\
Data File : VG240624A12.D
Date Inj'd : 6/24/2024 12:26 pm
Sample : L2434679-14,31,10,10,,A

QMethod : G_240509A_8260.m
Operator : GONZO:PID
Instrument : Gonzo
Quant Date : 6/24/2024 1:07 pm

Compound #17: Acetone



Original Peak Response = 1939



Manual Peak Response = 1842 M6

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

Volatiles Standards Data

Initial Calibration

Initial Calibration Summary
Form 6
Volatiles

Client	**: Alpha Geoscience**	**Lab Number**	**: L2434679**
Project Name	**: RANCO MINE**	**Project Number**	**: 12123**
Instrument ID	**: GONZO**	**Ical Ref**	**: ICAL21111**
Calibration dates	**: 05/09/24 17:50 05/09/24 21:24**		

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

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

Initial Calibration Summary
Form 6
Volatiles

Client	**: Alpha Geoscience**	**Lab Number**	**: L2434679**
Project Name	**: RANCO MINE**	**Project Number**	**: 12123**
Instrument ID	**: GONZO**	**Ical Ref**	**: ICAL21111**
Calibration dates	**: 05/09/24 17:50 05/09/24 21:24**		

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

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

Initial Calibration Summary
Form 6
Volatiles

Client	**: Alpha Geoscience**	**Lab Number**	**: L2434679**
Project Name	**: RANCO MINE**	**Project Number**	**: 12123**
Instrument ID	**: GONZO**	**Ical Ref**	**: ICAL21111**
Calibration dates	**: 05/09/24 17:50 05/09/24 21:24**		

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

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

Initial Calibration Summary
Form 6
Volatiles

Client	**: Alpha Geoscience**	**Lab Number**	**: L2434679**
Project Name	**: RANCO MINE**	**Project Number**	**: 12123**
Instrument ID	**: VOA108**	**Ical Ref**	**: ICAL21127**
Calibration dates	**: 05/14/24 19:49 05/14/24 23:33**		

Calibration Files
L11 =V08240514N03.d L1 =V08240514N05.d L2 =V08240514N07.d L3 =V08240514N09.d L4 =V08240514N10.d
L6 =V08240514N11.d L8 =V08240514N12.d L10 =V08240514N13.d

		Compound	L11	L1	L2	L3	L4	L6	L8	L10	Avg	%RSD
1)	I	Fluorobenzene	----------ISTD----------									
2)	TP	Dichlorodifluo		0.200	0.257	0.230	0.228	0.223	0.226	0.252	0.231	8.19
3)	TP	Chloromethane		0.231	0.258	0.239	0.234	0.226	0.223	0.250	0.237	5.41
4)	TC	Vinyl chloride	0.256	0.225	0.274	0.257	0.253	0.243	0.244	0.271	0.253	6.31
5)	TP	Bromomethane		0.125	0.135	0.123	0.124	0.120	0.124	0.141	0.128	5.99
6)	TP	Chloroethane		0.143	0.158	0.145	0.142	0.133	0.129	0.142	0.142	6.37
7)	TP	Trichlorofluor		0.278	0.362	0.336	0.332	0.322	0.325	0.361	0.331	8.59
8)	TP	Ethyl ether		0.109	0.106	0.097	0.096	0.092	0.091	0.101	0.099	6.87
10)	TC	1,1-Dichloroet		0.145	0.182	0.166	0.163	0.157	0.161	0.181	0.165	8.00
11)	TP	Carbon disulfide		0.484	0.601	0.562	0.557	0.546	0.553	0.629	0.562	8.12
12)	TP	Freon-113		0.135	0.187	0.168	0.170	0.166	0.170	0.193	0.170	10.87
13)	TP	Iodomethane		0.193	0.239	0.251	0.267	0.270	0.274	0.302	0.257	13.40
14)	TP	Acrolein			0.031	0.027	0.028	0.026	0.027	0.030	0.028	7.35
15)	TP	Methylene chlo			0.217	0.197	0.192	0.184	0.184	0.207	0.197	6.65
17)	TP	Acetone			0.047	0.040	0.038	0.035	0.036	0.040	0.039	11.19
18)	TP	trans-1,2-Dich		0.167	0.206	0.188	0.186	0.178	0.180	0.203	0.187	7.37
19)	TP	Methyl acetate			0.116	0.104	0.103	0.098	0.100	0.114	0.106	6.81
20)	TP	Methyl tert butyl ether		0.527	0.523	0.495	0.497	0.472	0.475	0.534	0.503	5.02
21)	TP	tert-Butyl alc		0.014	0.015	0.014	0.014	0.013	0.013	0.015	0.014	5.09
22)	TP	Diisopropyl ether		0.717	0.719	0.686	0.681	0.660	0.667	0.757	0.698	4.92
23)	TP	1,1-Dichloroet		0.341	0.397	0.369	0.365	0.350	0.350	0.395	0.367	6.01
24)	TP	Halothane		0.122	0.155	0.143	0.144	0.139	0.141	0.158	0.143	8.16
25)	TP	Acrylonitrile		0.051	0.051	0.046	0.047	0.044	0.045	0.051	0.048	6.24
26)	TP	Ethyl tert-but		0.629	0.650	0.623	0.623	0.602	0.609	0.693	0.633	4.84
27)	TP	Vinyl acetate		0.517	0.436	0.340	0.450	0.414	0.439	0.459	0.436	12.17
28)	TP	cis-1,2-Dichlo		0.205	0.220	0.211	0.208	0.199	0.199	0.225	0.209	4.79
29)	TP	2,2-Dichloropr		0.286	0.337	0.300	0.317	0.302	0.306	0.341	0.313	6.48
30)	TP	Bromochloromet		0.098	0.106	0.103	0.101	0.097	0.096	0.107	0.101	4.20
31)	TP	Cyclohexane		0.305	0.356	0.320	0.319	0.312	0.321	0.367	0.329	7.08
32)	TC	Chloroform		0.350	0.378	0.356	0.350	0.334	0.334	0.376	0.354	5.05
33)	TP	Ethyl acetate		0.162	0.183	0.157	0.155	0.146	0.148	0.167	0.160	7.89
34)	TP	Carbon tetrachloride	0.275	0.248	0.309	0.294	0.290	0.281	0.285	0.323	0.288	7.81
35)	TP	Tetrahydrofuran		0.045	0.050	0.043	0.042	0.040	0.040	0.045	0.044	8.13
36)	S	Dibromofluoromethane	0.272	0.274	0.271	0.279	0.275	0.275	0.274	0.274	0.274	0.89
37)	TP	1,1,1-Trichlor		0.282	0.334	0.311	0.309	0.295	0.298	0.336	0.309	6.54
39)	TP	2-Butanone			0.070	0.071	0.068	0.064	0.064	0.072	0.068	5.32

Initial Calibration Summary
Form 6
Volatiles

Client	**: Alpha Geoscience**	**Lab Number**	**: L2434679**
Project Name	**: RANCO MINE**	**Project Number**	**: 12123**
Instrument ID	**: VOA108**	**Ical Ref**	**: ICAL21127**
Calibration dates	**: 05/14/24 19:49 05/14/24 23:33**		

Calibration Files
L11 =V08240514N03.d L1 =V08240514N05.d L2 =V08240514N07.d L3 =V08240514N09.d L4 =V08240514N10.d
L6 =V08240514N11.d L8 =V08240514N12.d L10 =V08240514N13.d

	Compound	L11	L1	L2	L3	L4	L6	L8	L10	Avg	%RSD
40) TP	1,1-Dichloropr		0.220	0.272	0.258	0.257	0.247	0.250	0.283	0.255	7.84
41) TP	Benzene	0.806	0.743	0.806	0.764	0.767	0.738	0.741	0.837	0.775	4.77
42) TP	Tertiary-Amyl Methyl Ether		0.558	0.562	0.535	0.532	0.509	0.514	0.582	0.542	4.95
43) S	1,2-Dichloroethane-d4	0.295	0.302	0.300	0.306	0.308	0.310	0.312	0.323	0.307	2.73
44) TP	1,2-Dichloroet		0.271	0.276	0.258	0.255	0.243	0.244	0.274	0.260	5.33
47) TP	Methyl cyclohe		0.257	0.327	0.300	0.304	0.300	0.309	0.357	0.308	9.90
48) TP	Trichloroethene	0.209	0.181	0.217	0.211	0.198	0.195	0.196	0.231	0.205	7.47
50) TP	Dibromomethane		0.115	0.124	0.116	0.119	0.113	0.114	0.128	0.118	4.78
51) TC	1,2-Dichloropr		0.192	0.217	0.207	0.206	0.197	0.198	0.224	0.206	5.63
53) TP	2-Chloroethyl		0.104	0.115	0.108	0.110	0.106	0.106	0.120	0.110	5.22
54) TP	Bromodichlorom		0.283	0.291	0.276	0.281	0.271	0.272	0.308	0.283#	4.55
57) TP	1,4-Dioxane		0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001#	5.74
58) TP	cis-1,3-Dichlo		0.321	0.334	0.323	0.326	0.316	0.318	0.360	0.328	4.58
59) I	Chlorobenzene-d5	----------ISTD----------									
60) S	Toluene-d8	1.334	1.329	1.296	1.316	1.328	1.308	1.305	1.284	1.313	1.33
61) TC	Toluene		0.645	0.680	0.647	0.649	0.630	0.629	0.695	0.654	3.82
62) TP	4-Methyl-2-pen		0.060	0.074	0.071	0.074	0.071	0.073	0.080	0.072	8.54
63) TP	Tetrachloroethene		0.246	0.285	0.273	0.271	0.262	0.265	0.292	0.271	5.58
65) TP	trans-1,3-Dich		0.398	0.384	0.379	0.396	0.379	0.381	0.419	0.391	3.78
67) TP	Ethyl methacry		0.281	0.279	0.274	0.278	0.268	0.268	0.298	0.278	3.70
68) TP	1,1,2-Trichlor		0.188	0.183	0.173	0.175	0.169	0.169	0.187	0.178#	4.52
69) TP	Chlorodibromom		0.265	0.274	0.274	0.283	0.275	0.275	0.302	0.278	4.14
70) TP	1,3-Dichloropr		0.366	0.373	0.364	0.368	0.348	0.346	0.377	0.363	3.28
71) TP	1,2-Dibromoethane		0.204	0.212	0.210	0.210	0.201	0.200	0.218	0.208	3.01
72) TP	2-Hexanone		0.214	0.153	0.138	0.141	0.131	0.131	0.143	0.150	19.55
73) TP	Chlorobenzene		0.705	0.751	0.726	0.730	0.703	0.698	0.768	0.726	3.61
74) TC	Ethylbenzene		1.156	1.257	1.240	1.250	1.222	1.216	1.338	1.240	4.42
75) TP	1,1,1,2-Tetrac		0.264	0.278	0.277	0.279	0.270	0.270	0.296	0.276	3.72
76) TP	p/m Xylene		0.446	0.494	0.479	0.491	0.478	0.484	0.535	0.487	5.49
77) TP	o Xylene		0.446	0.479	0.473	0.478	0.468	0.472	0.522	0.477	4.80
78) TP	Styrene		0.746	0.796	0.794	0.808	0.795	0.800	0.873	0.802	4.65
79) I	1,4-Dichlorobenzene-d4	----------ISTD----------									
80) TP	Bromoform		0.323	0.307	0.322	0.341	0.336	0.340	0.362	0.333	5.26
82) TP	Isopropylbenzene		2.259	2.482	2.469	2.516	2.472	2.496	2.658	2.479	4.72
83) S	4-Bromofluorobenzene	0.963	0.968	0.948	0.957	0.958	0.951	0.951	0.920	0.952	1.53
84) TP	Bromobenzene		0.642	0.623	0.614	0.629	0.605	0.609	0.649	0.625	2.66

Initial Calibration Summary
Form 6
Volatiles

Client	**: Alpha Geoscience**	**Lab Number**	**: L2434679**
Project Name	**: RANCO MINE**	**Project Number**	**: 12123**
Instrument ID	**: VOA108**	**Ical Ref**	**: ICAL21127**
Calibration dates	**: 05/14/24 19:49 05/14/24 23:33**		

Calibration Files
L11 =V08240514N03.d L1 =V08240514N05.d L2 =V08240514N07.d L3 =V08240514N09.d L4 =V08240514N10.d
L6 =V08240514N11.d L8 =V08240514N12.d L10 =V08240514N13.d

	Compound	L11	L1	L2	L3	L4	L6	L8	L10	Avg	%RSD
85) TP	n-Propylbenzene		2.708	2.926	2.897	2.965	2.932	2.949	3.126	2.929	4.20
86) TP	1,4-Dichlorobu		0.832	0.714	0.693	0.704	0.692	0.700	0.763	0.728	7.09
87) TP	1,1,2,2-Tetrac		0.548	0.480	0.473	0.510	0.485	0.493	0.514	0.500	5.18
88) TP	4-Ethyltoluene		2.258	2.370	2.395	2.454	2.400	2.401	2.560	2.405	3.76
89) TP	2-Chlorotoluene		1.709	1.738	1.722	1.756	1.719	1.726	1.823	1.742	2.24
90) TP	1,3,5-Trimethy		1.971	2.092	2.107	2.166	2.136	2.151	2.308	2.133	4.71
91) TP	1,2,3-Trichlor		0.428	0.423	0.408	0.413	0.403	0.410	0.444	0.418	3.37
92) TP	trans-1,4-Dich		0.159	0.149	0.149	0.155	0.153	0.155	0.164	0.155	3.49
93) TP	4-Chlorotoluene		1.792	1.789	1.795	1.816	1.773	1.779	1.924	1.810	2.88
94) TP	tert-Butylbenzene		1.696	1.853	1.808	1.840	1.795	1.805	1.933	1.818	3.92
97) TP	1,2,4-Trimethy		1.933	2.043	2.075	2.136	2.122	2.124	2.278	2.102	4.99
98) TP	sec-Butylbenzene		2.340	2.653	2.629	2.694	2.658	2.666	2.820	2.637	5.51
99) TP	p-Isopropyltol		2.101	2.283	2.300	2.361	2.345	2.342	2.507	2.320	5.21
100) TP	1,3-Dichlorobe		1.223	1.196	1.180	1.204	1.182	1.182	1.258	1.204	2.36
101) TP	1,4-Dichlorobe		1.242	1.208	1.187	1.211	1.187	1.184	1.270	1.213	2.68
102) TP	p-Diethylbenzene		1.220	1.311	1.335	1.392	1.389	1.398	1.517	1.366	6.71
103) TP	n-Butylbenzene		1.764	1.996	1.977	2.057	2.037	2.049	2.197	2.011	6.46
104) TP	1,2-Dichlorobe		1.161	1.136	1.114	1.136	1.111	1.106	1.178	1.134	2.37
105) TP	1,2,4,5-Tetram		2.025	2.134	2.184	2.272	2.244	2.266	2.446	2.224	5.90
106) TP	1,2-Dibromo-3-		0.051	0.079	0.079	0.082	0.079	0.080	0.084	0.076	14.80
107) TP	1,3,5-Trichlor		0.891	0.896	0.882	0.924	0.898	0.897	0.976	0.909	3.54
108) TP	Hexachlorobuta		0.350	0.406	0.390	0.399	0.387	0.389	0.422	0.392	5.68
109) TP	1,2,4-Trichlor		0.833	0.802	0.799	0.821	0.798	0.797	0.873	0.817	3.44
110) TP	Naphthalene		1.721	1.602	1.600	1.631	1.565	1.573	1.690	1.626	3.62
111) TP	1,2,3-Trichlor		0.730	0.733	0.728	0.739	0.723	0.716	0.781	0.736	2.88

Response Factor Report Gonzo

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

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

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

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

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

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

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

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

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

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

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

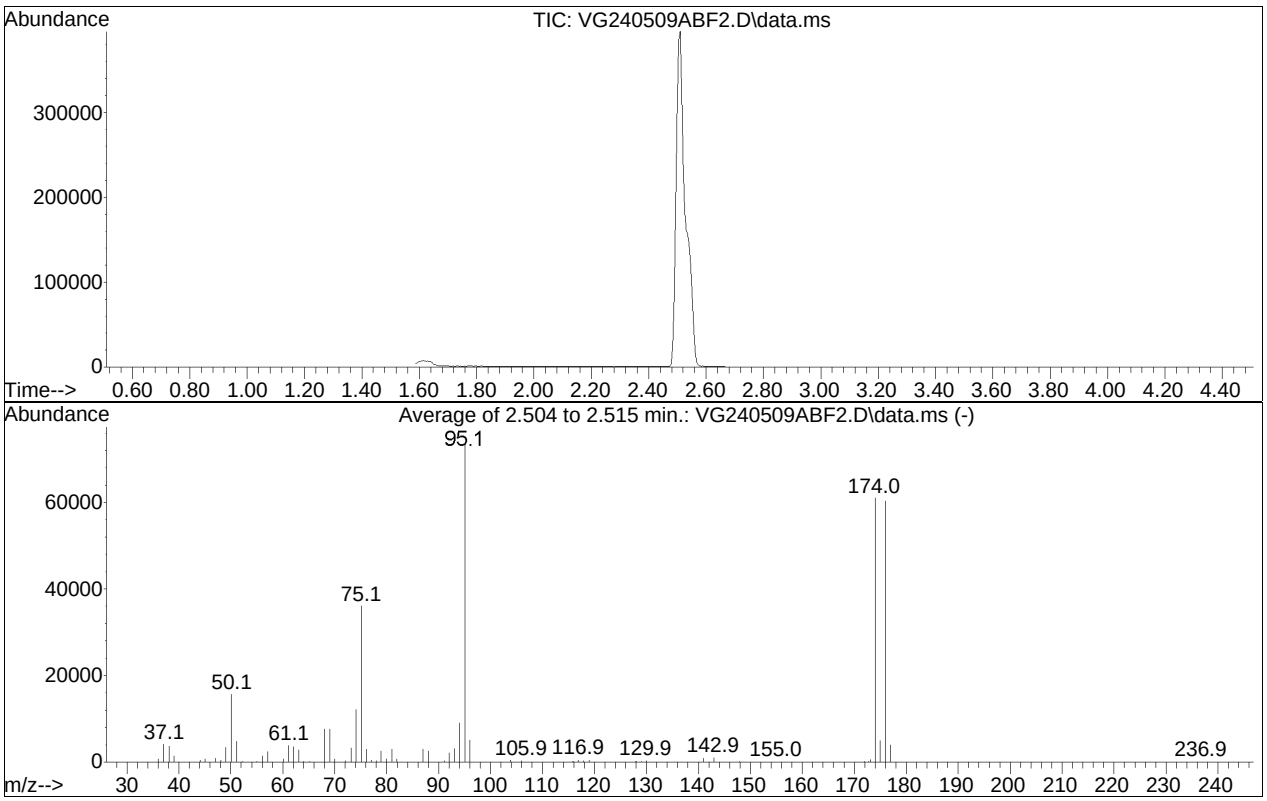
	Compound	L11	L1	L2	L3	L4	L6	L8	L10	Avg	%RSD
108) TP	Hexachlorobuta...	0.153	0.162	0.157	0.186	0.191	0.202	0.195	0.178	11.29	
109) TP	1,2,4-Trichlor...	0.497	0.512	0.522	0.524	0.542	0.613	0.604	0.545	8.40	
110) TP	Naphthalene	0.942	0.963	1.116	1.111	1.161	1.339	1.298	1.133	13.32	
111) TP	1,2,3-Trichlor...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

(#) = Out of Range

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

Integration File: rteint.p

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



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

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

Quantitation Report (QT Reviewed)

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

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

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

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

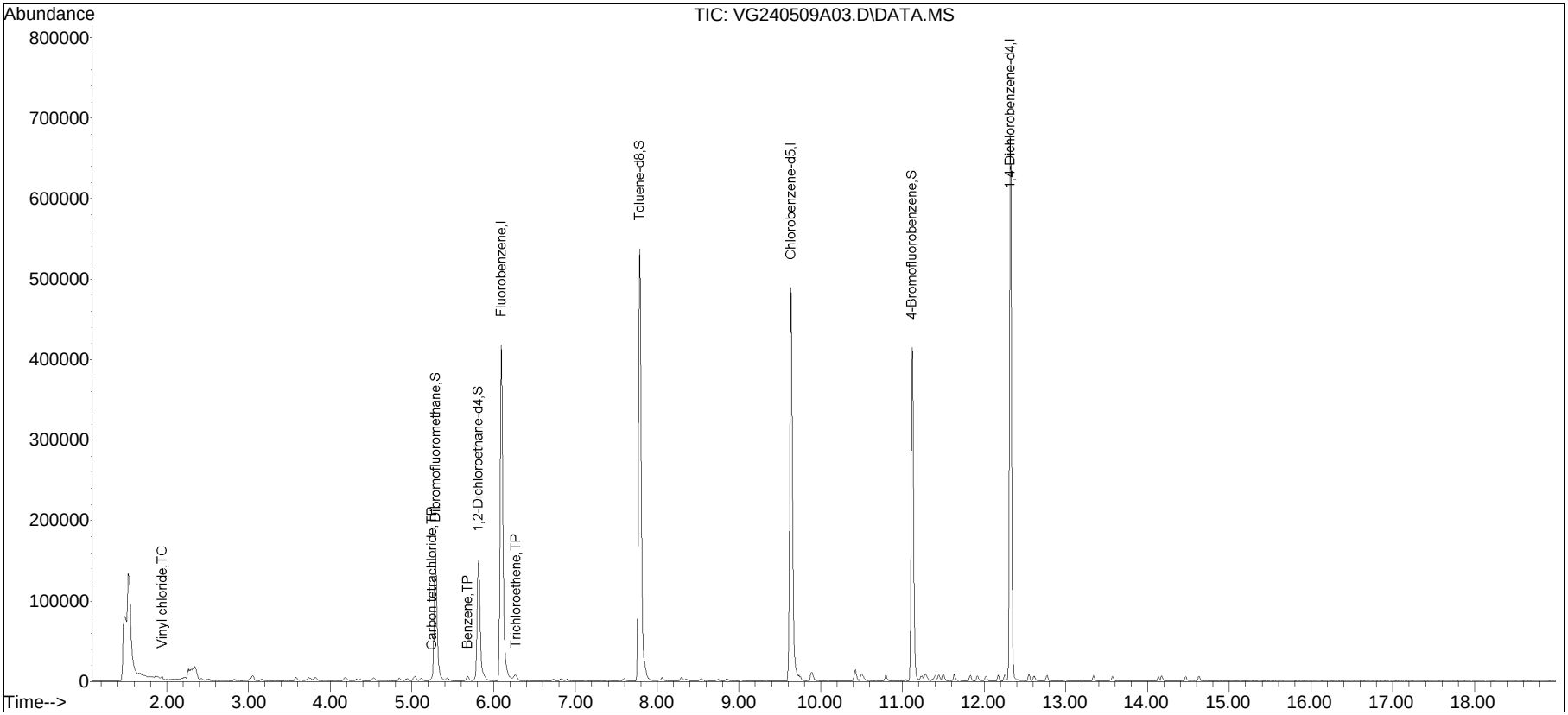
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

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

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

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



Manual Integration Report

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

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

Quantitation Report (QT Reviewed)

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

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

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

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

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

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

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

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

Quantitation Report (QT Reviewed)

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

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

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

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

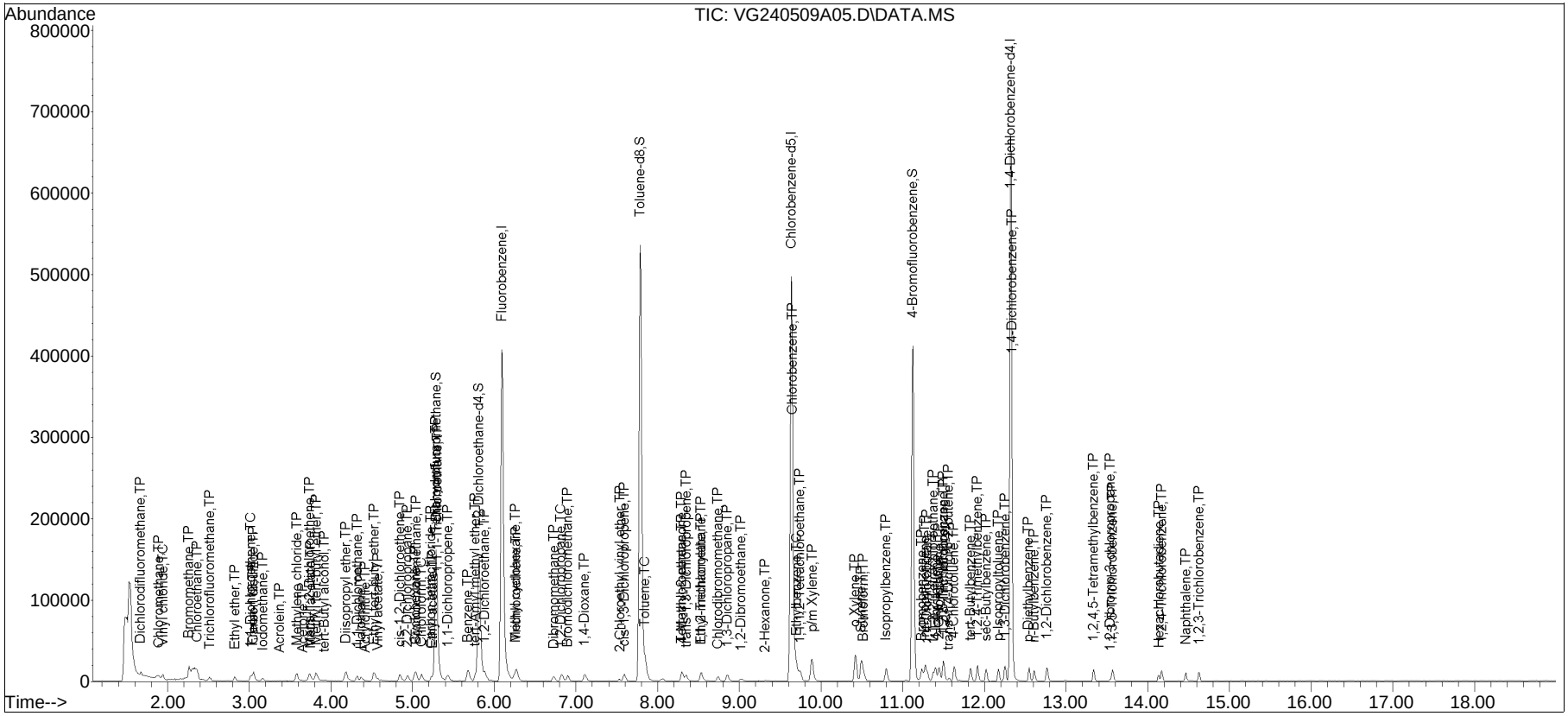
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

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

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

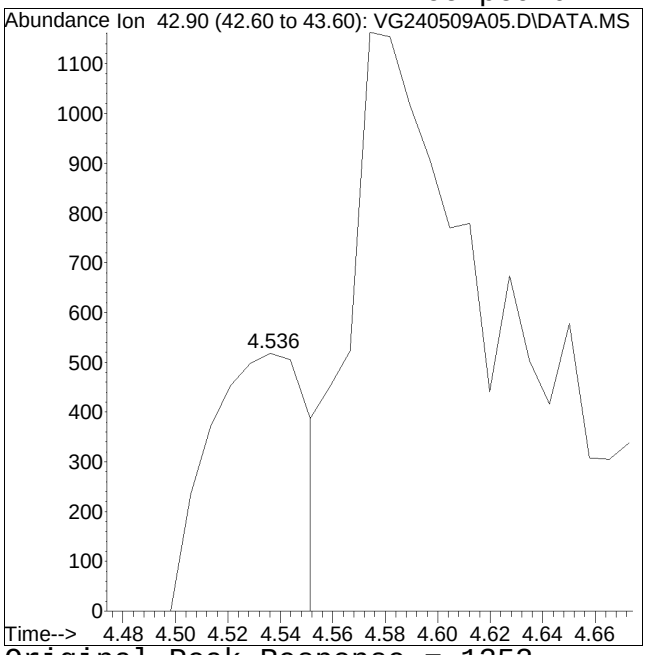
Sub List : 8260-Curve - Megamix plus DioxVG240509A08.D•

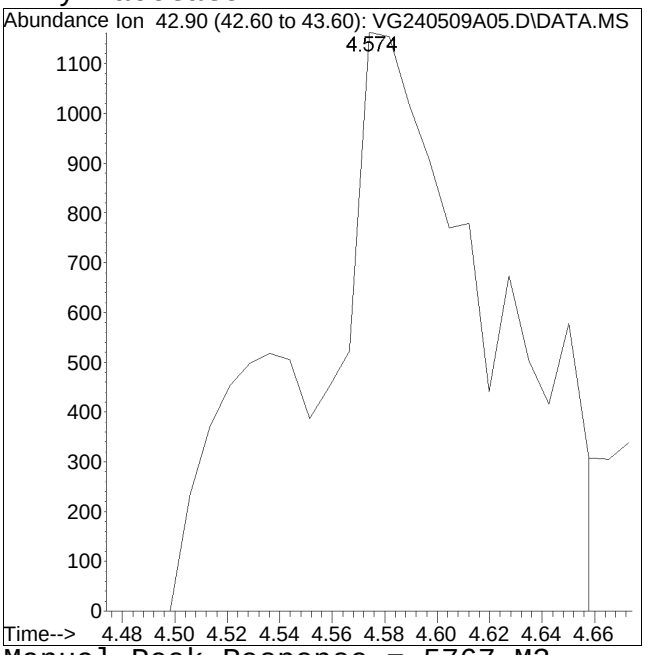


Manual Integration Report

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

Compound #27: Vinyl acetate





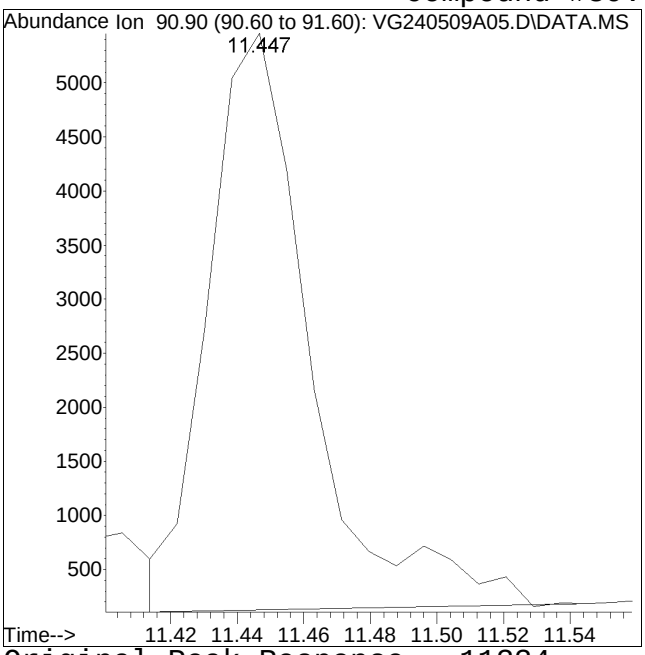
Original Peak Response = 1352 Manual Peak Response = 5767 M3

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

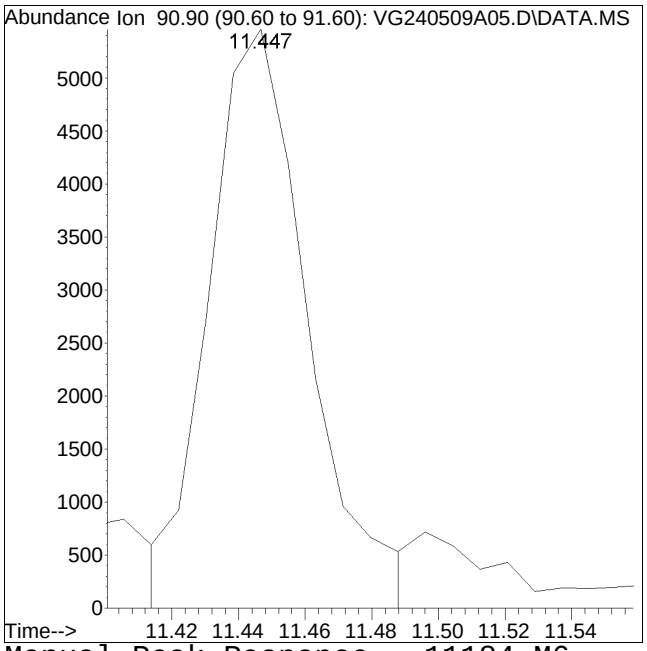
Manual Integration Report

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

Compound #89: 2-Chlorotoluene



Original Peak Response = 11334



Manual Peak Response = 11184 M6

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

Quantitation Report (QT Reviewed)

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

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

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

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

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

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

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

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

Quantitation Report (QT Reviewed)

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

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

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

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

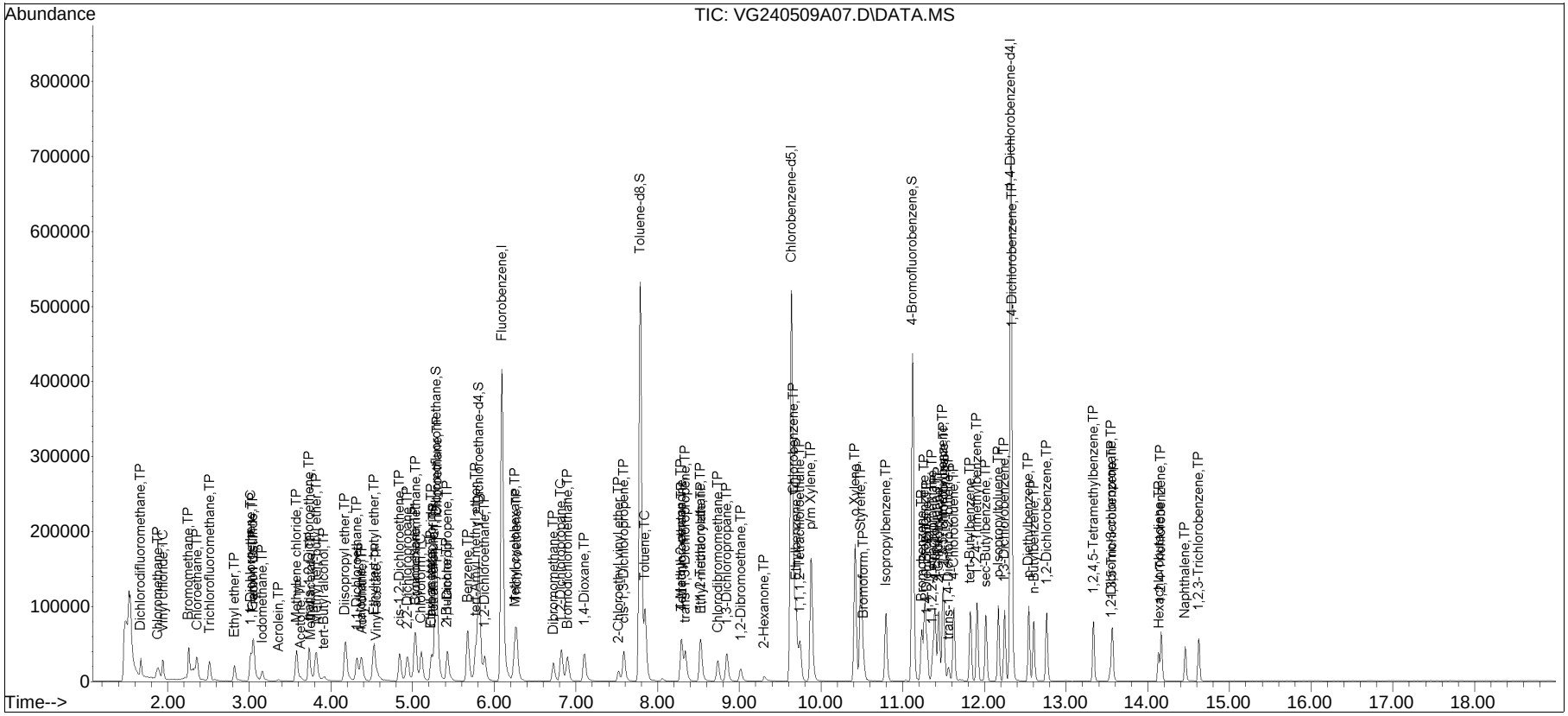
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

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

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

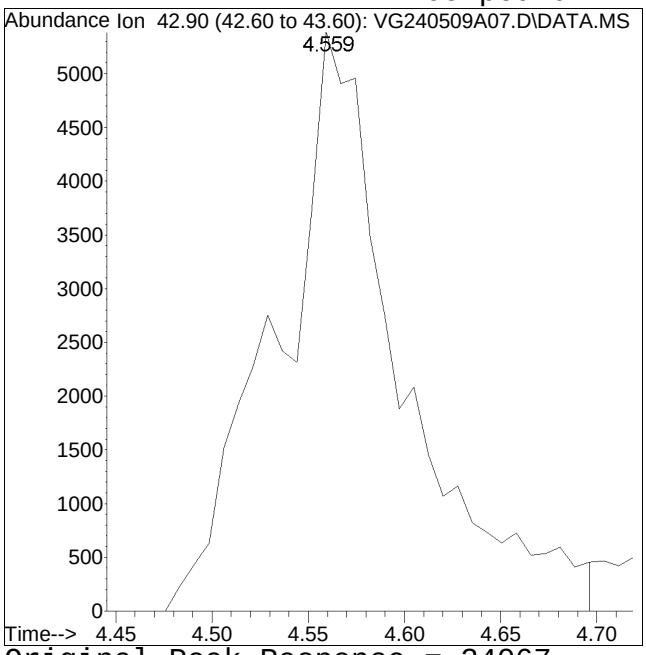
Sub List : 8260-Curve - Megamix plus DioxVG240509A08.D•



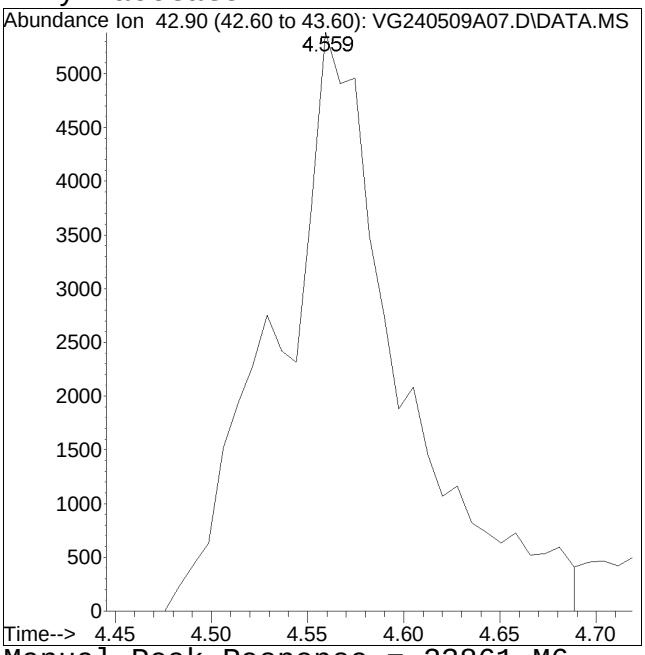
Manual Integration Report

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

Compound #27: Vinyl acetate



Original Peak Response = 24067



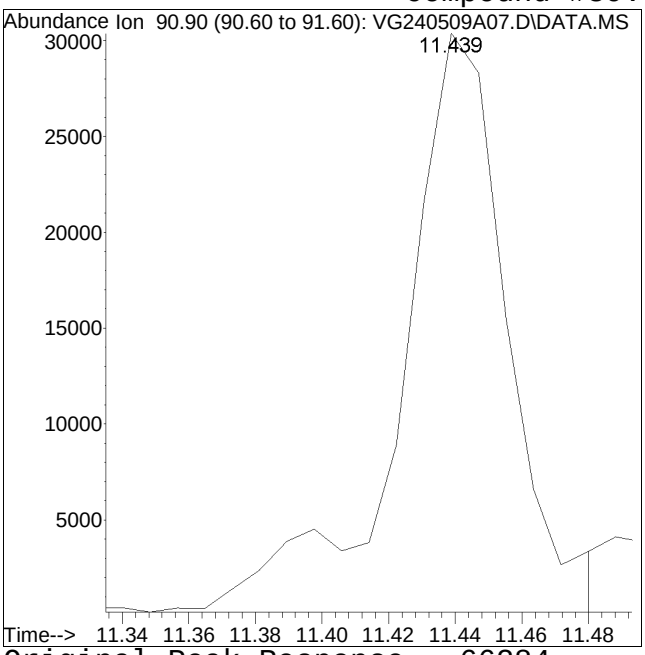
Manual Peak Response = 23861 M6

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

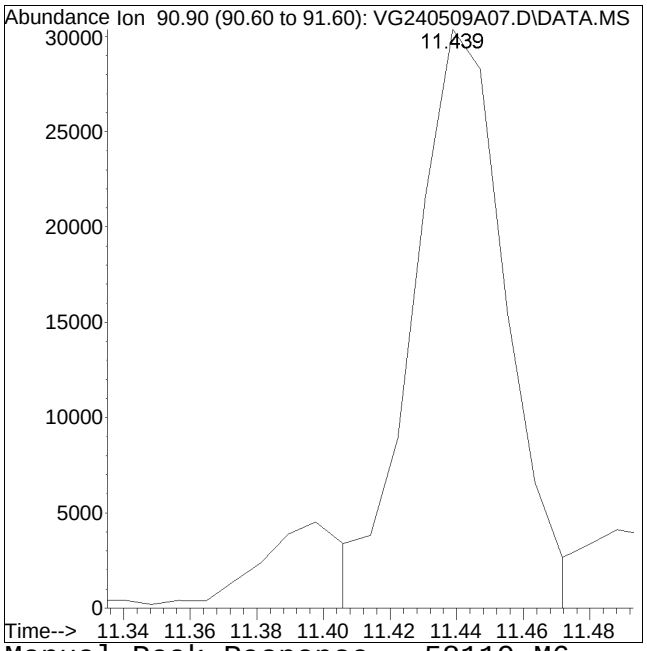
Manual Integration Report

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

Compound #89: 2-Chlorotoluene



Original Peak Response = 66284



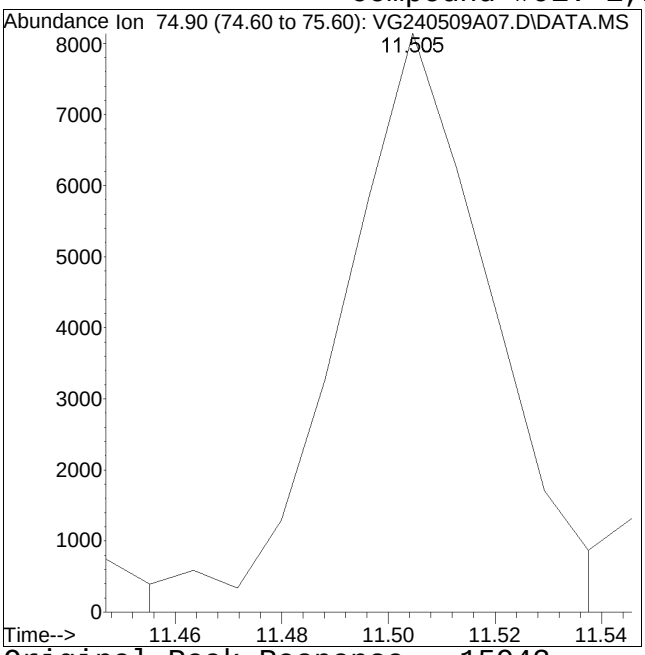
Manual Peak Response = 58110 M6

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

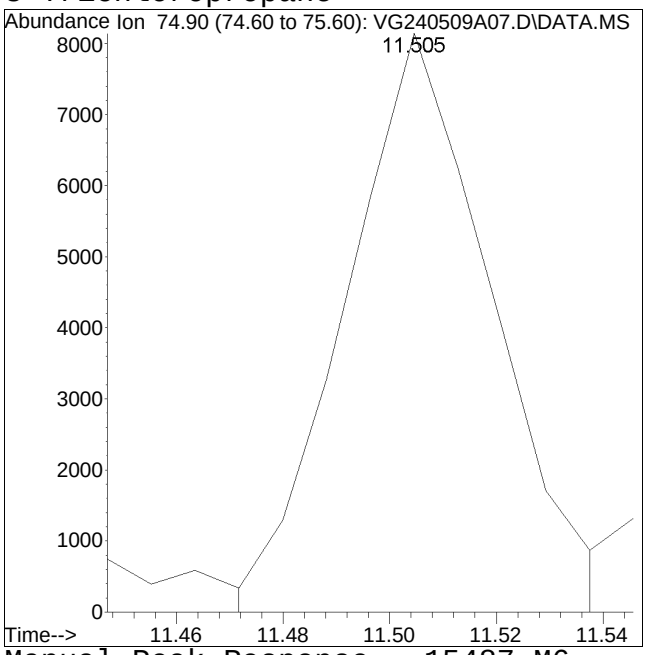
Manual Integration Report

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

Compound #91: 1,2,3-Trichloropropane



Original Peak Response = 15943



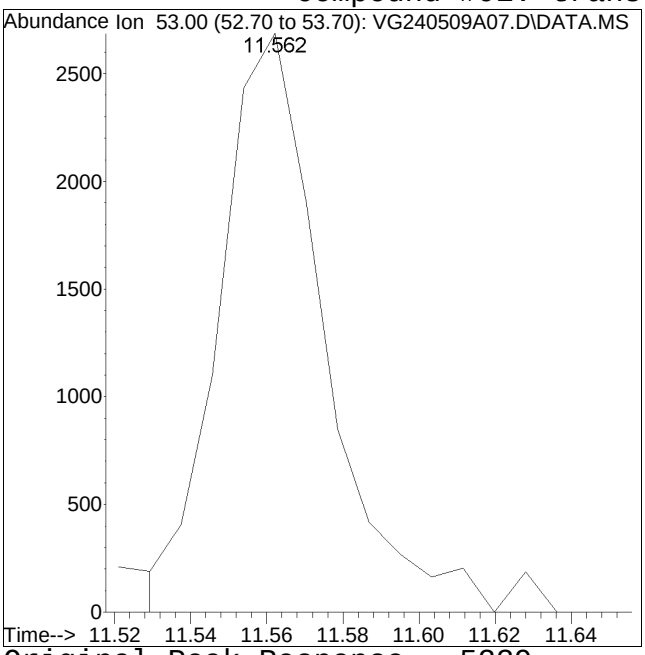
Manual Peak Response = 15487 M6

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

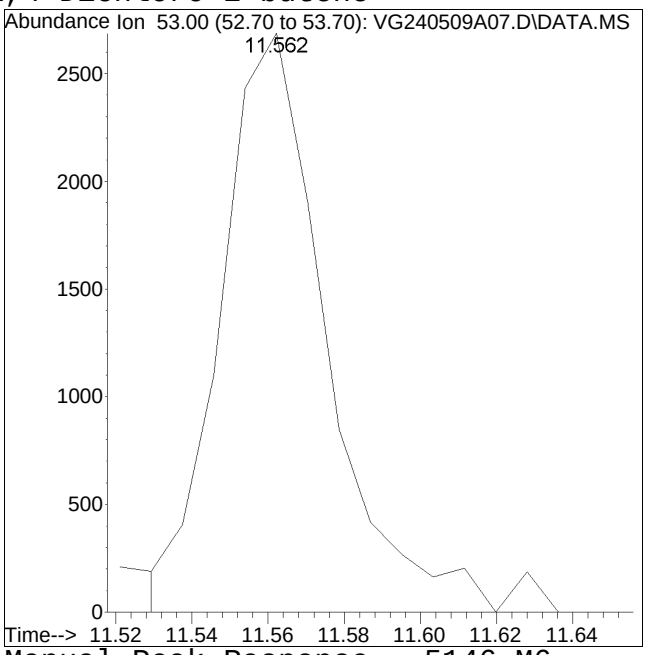
Manual Integration Report

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

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



Original Peak Response = 5239



Manual Peak Response = 5146 M6

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

Quantitation Report (QT Reviewed)

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

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

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

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

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

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

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

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

Quantitation Report (QT Reviewed)

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

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

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

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

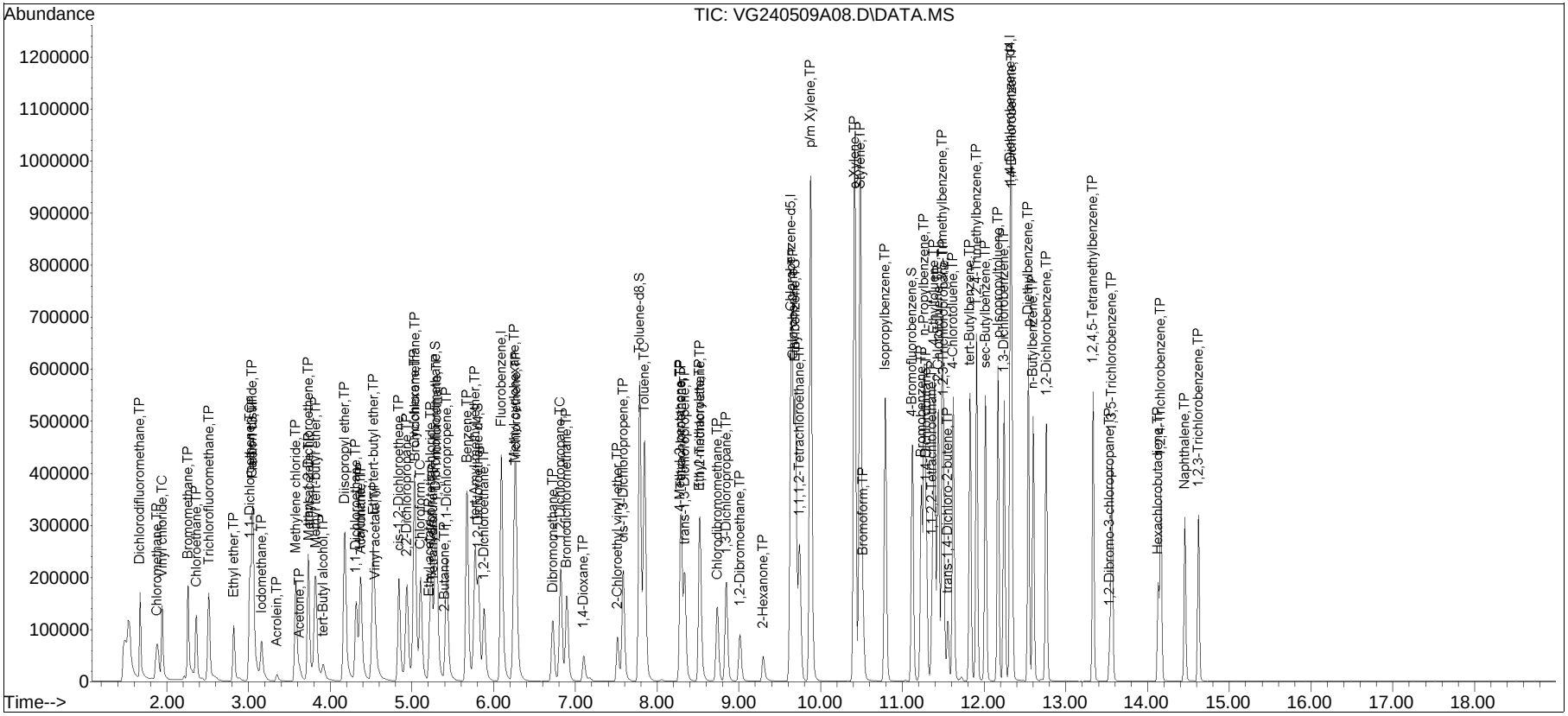
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

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

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

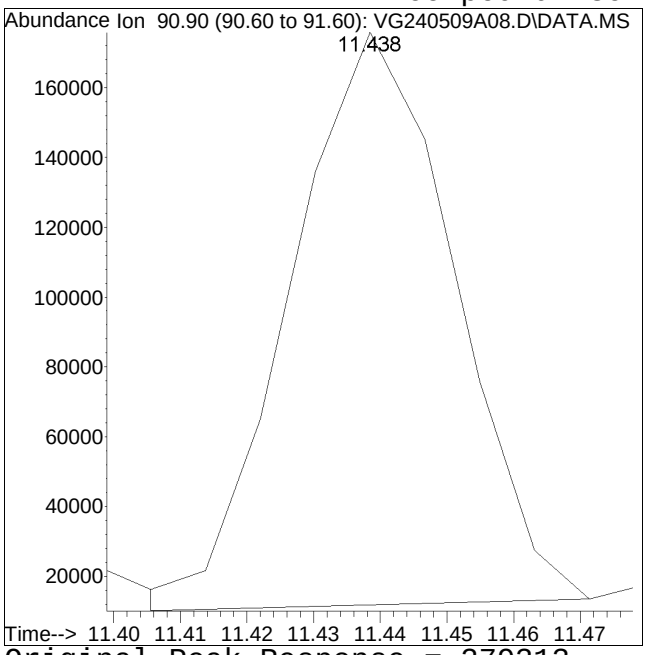
Sub List : 8260-Curve - Megamix plus DioxVG240509A08.D•

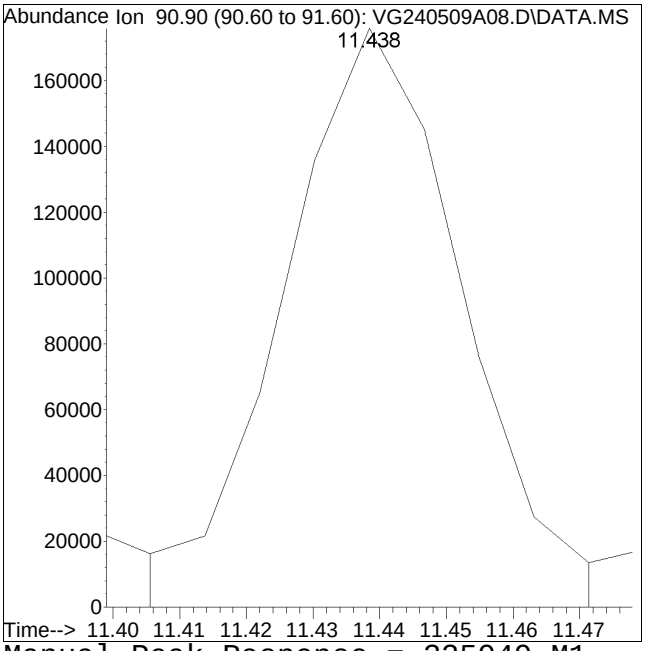


Manual Integration Report

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

Compound #89: 2-Chlorotoluene



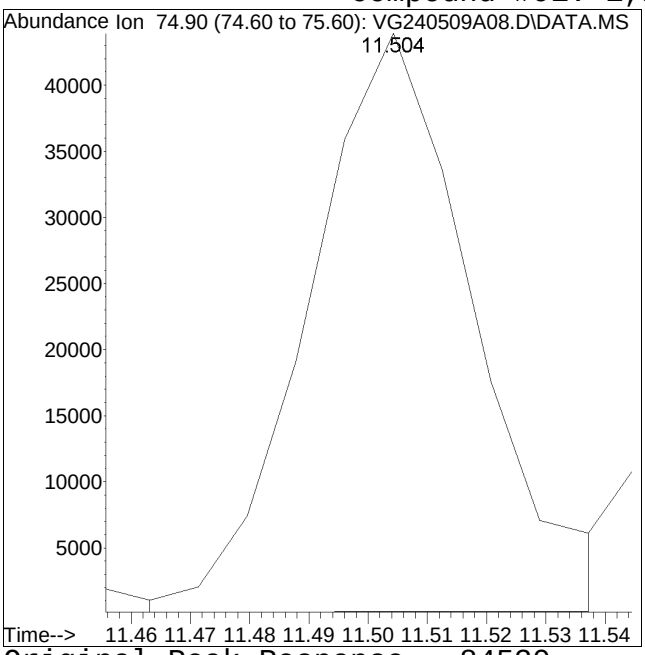


Original Peak Response = 279313 Manual Peak Response = 325949 M1
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

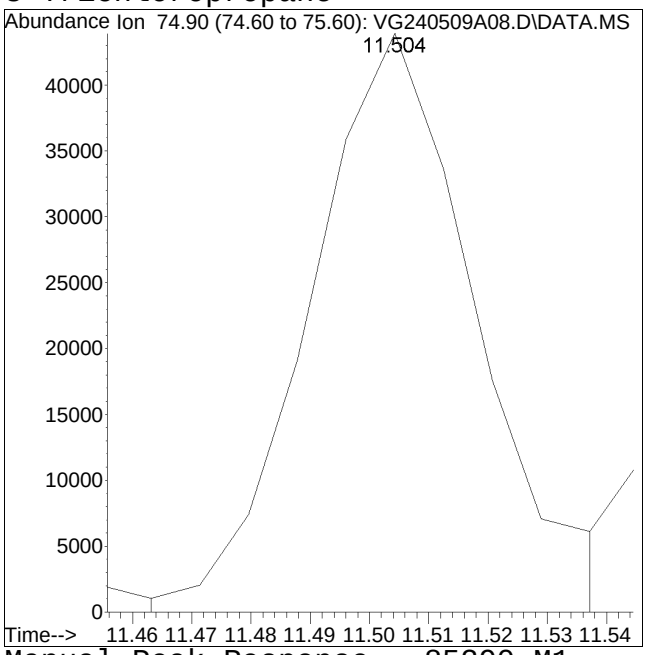
Manual Integration Report

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

Compound #91: 1,2,3-Trichloropropane



Original Peak Response = 84530



Manual Peak Response = 85290 M1

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

Quantitation Report (QT Reviewed)

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

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

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

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

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

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

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

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

Quantitation Report (QT Reviewed)

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

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

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

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

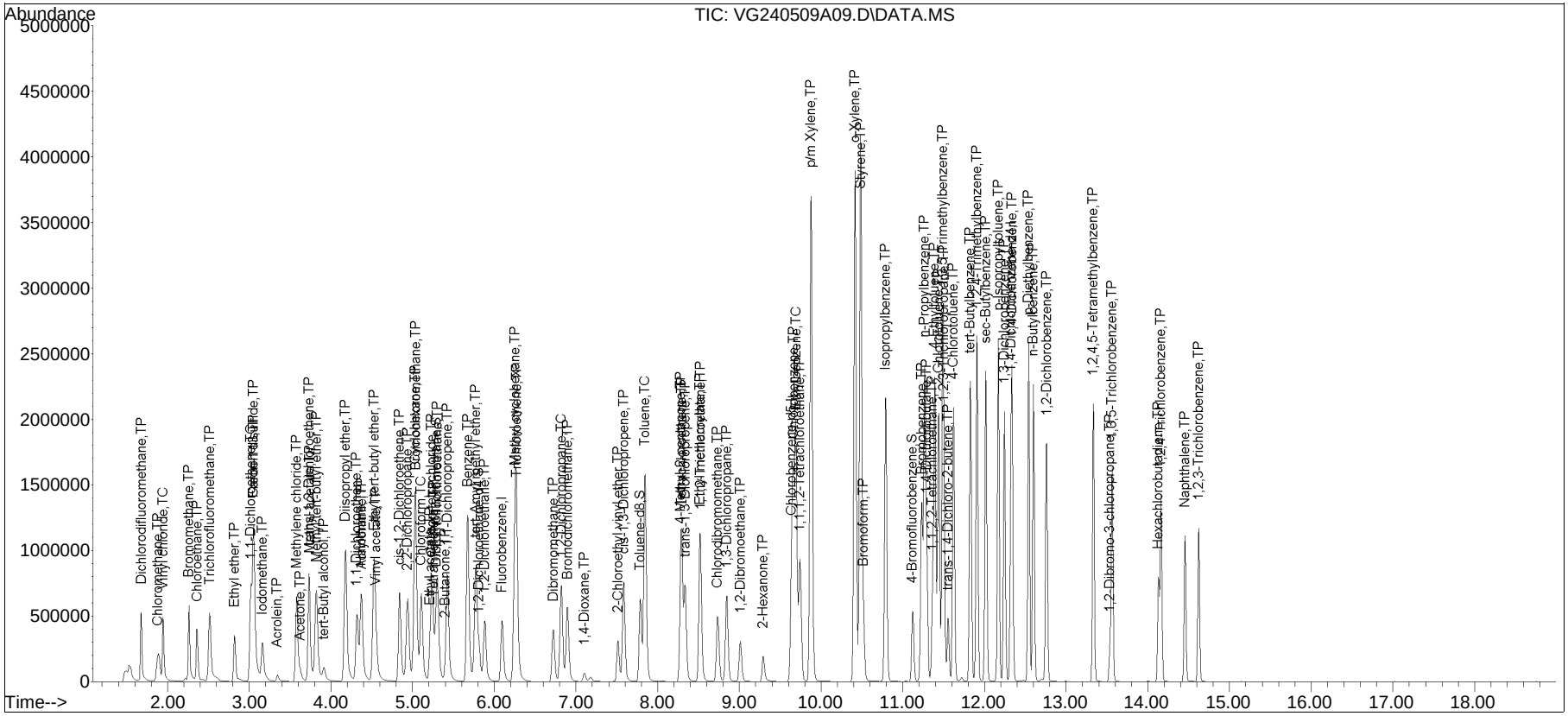
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

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

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

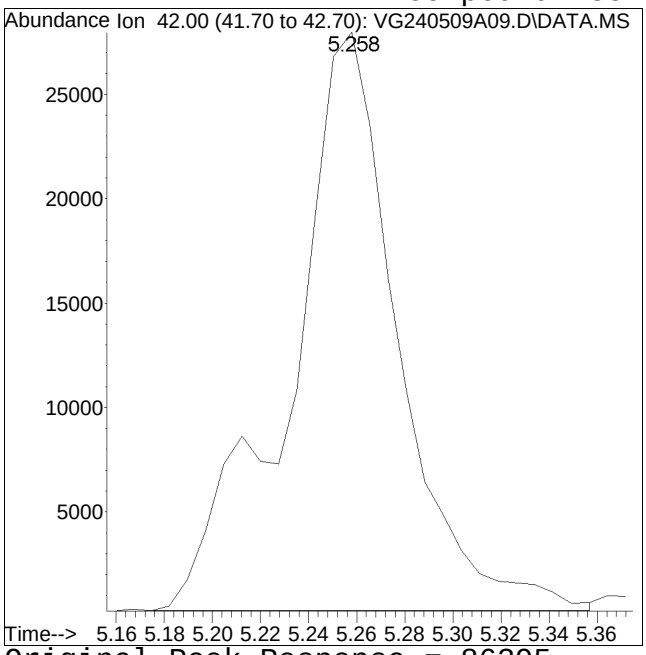
Sub List : 8260-Curve - Megamix plus DioxVG240509A08.D•



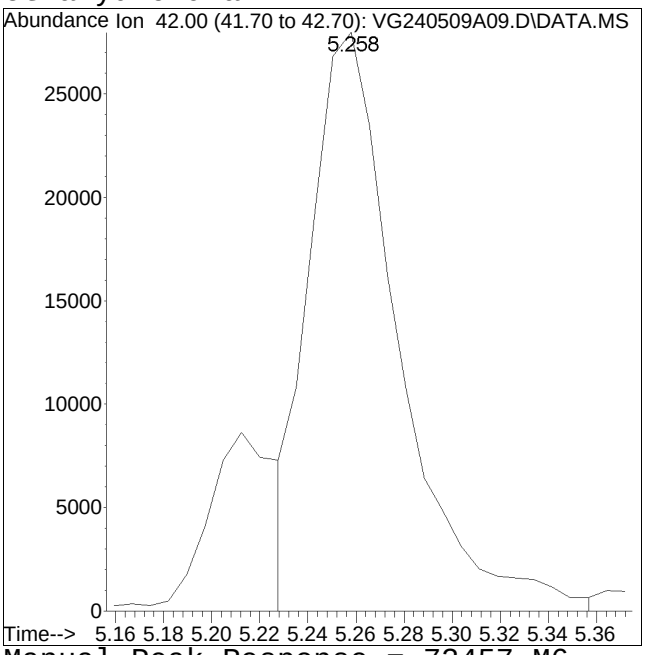
Manual Integration Report

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

Compound #35: Tetrahydrofuran



Original Peak Response = 86395



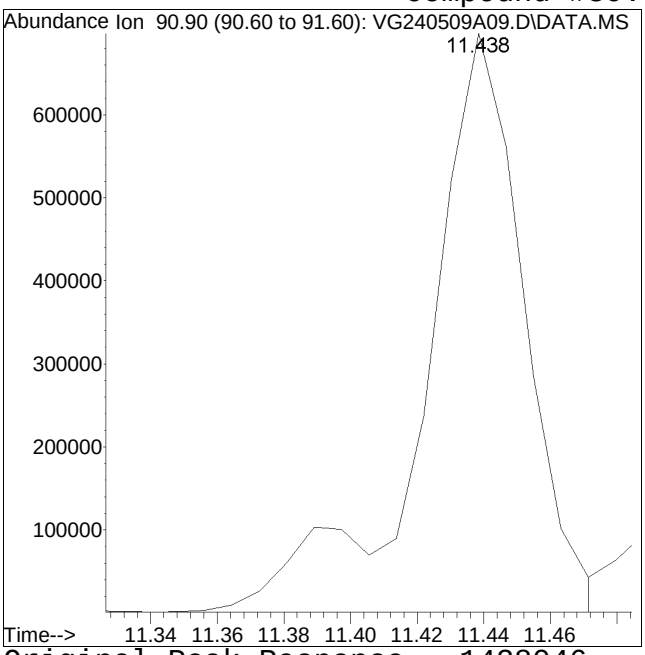
Manual Peak Response = 72457 M6

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

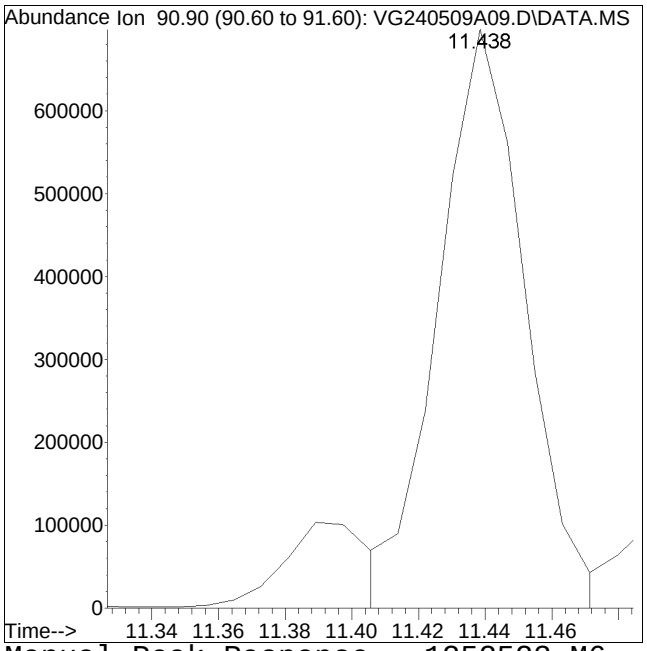
Manual Integration Report

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

Compound #89: 2-Chlorotoluene



Original Peak Response = 1428046



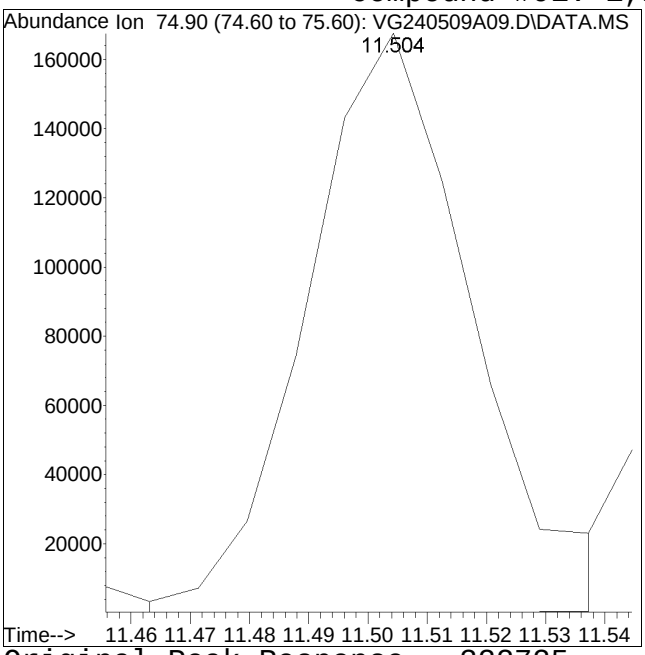
Manual Peak Response = 1252523 M6

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

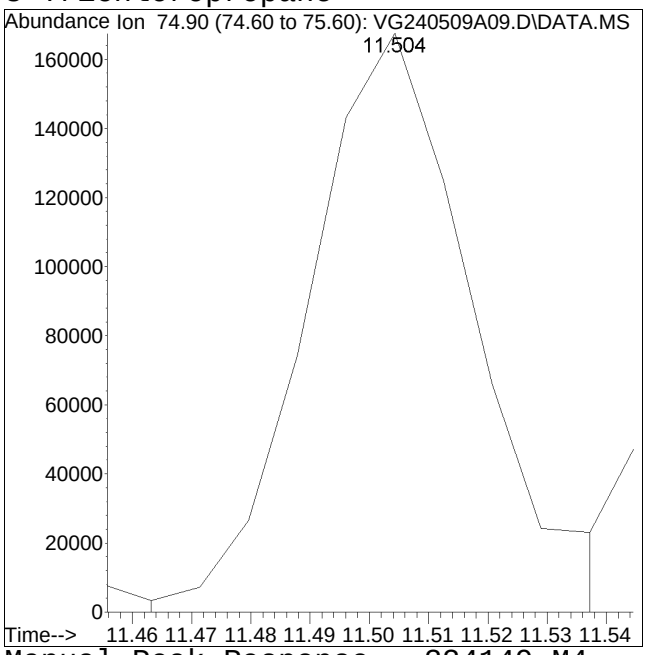
Manual Integration Report

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

Compound #91: 1,2,3-Trichloropropane



Original Peak Response = 322725



Manual Peak Response = 324149 M4

M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

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

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

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

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

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

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

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

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

Quantitation Report (QT Reviewed)

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

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

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

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

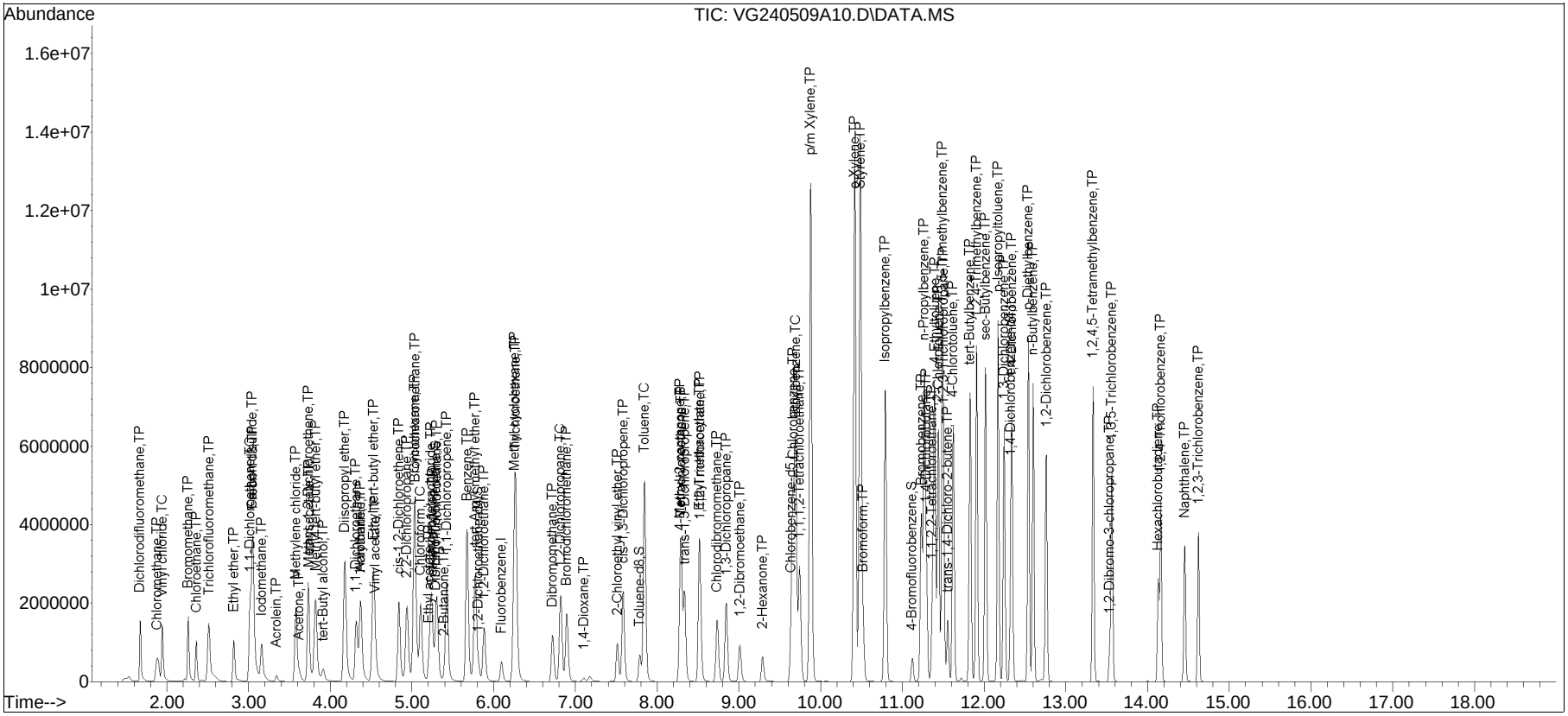
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

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

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

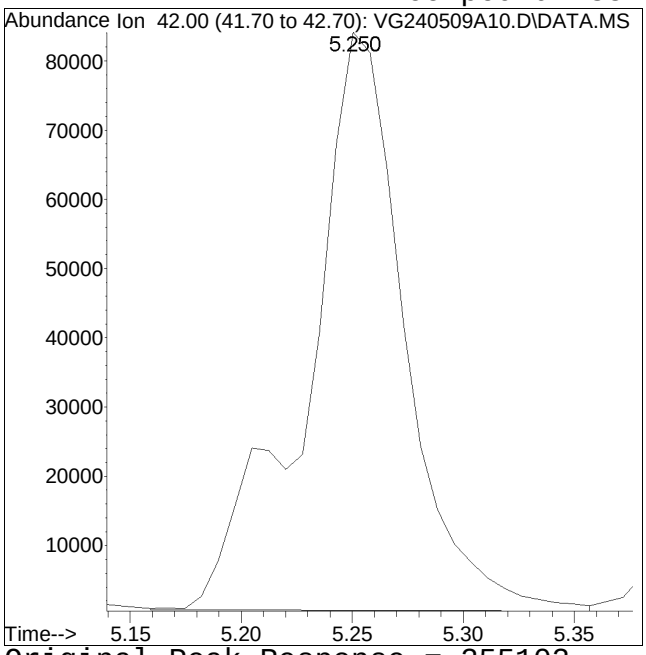
Sub List : 8260-Curve - Megamix plus DioxVG240509A08.D•



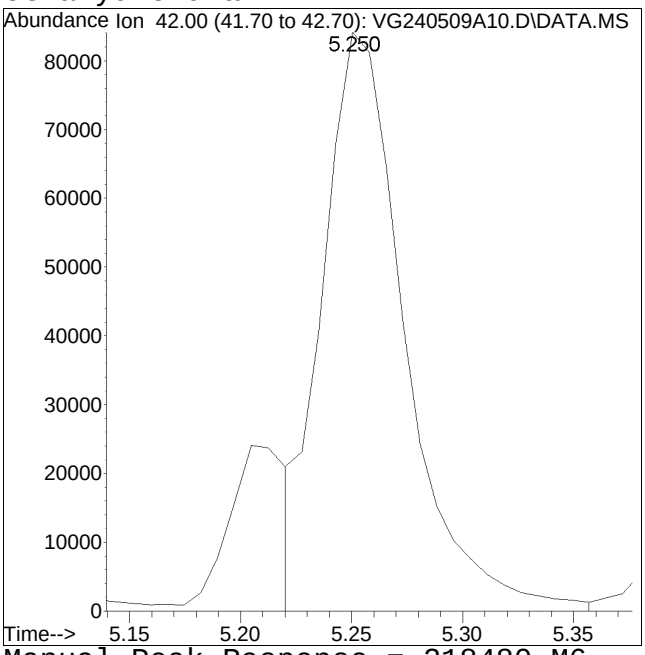
Manual Integration Report

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

Compound #35: Tetrahydrofuran



Original Peak Response = 255102



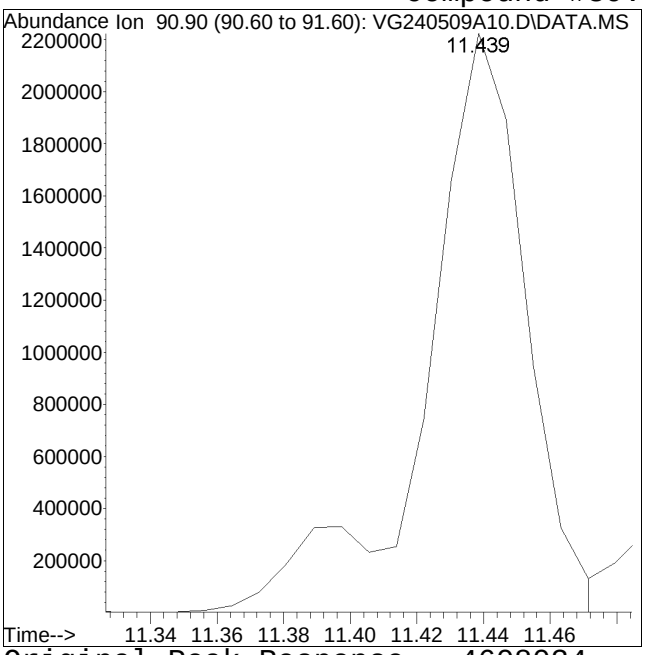
Manual Peak Response = 218480 M6

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

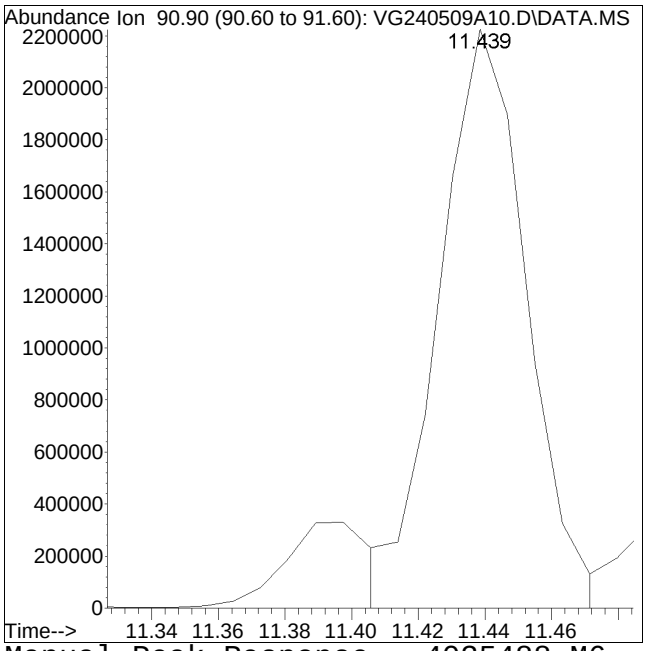
Manual Integration Report

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

Compound #89: 2-Chlorotoluene



Original Peak Response = 4608034



Manual Peak Response = 4035488 M6

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

Quantitation Report (QT Reviewed)

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

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

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

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

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

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

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

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

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

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

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

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

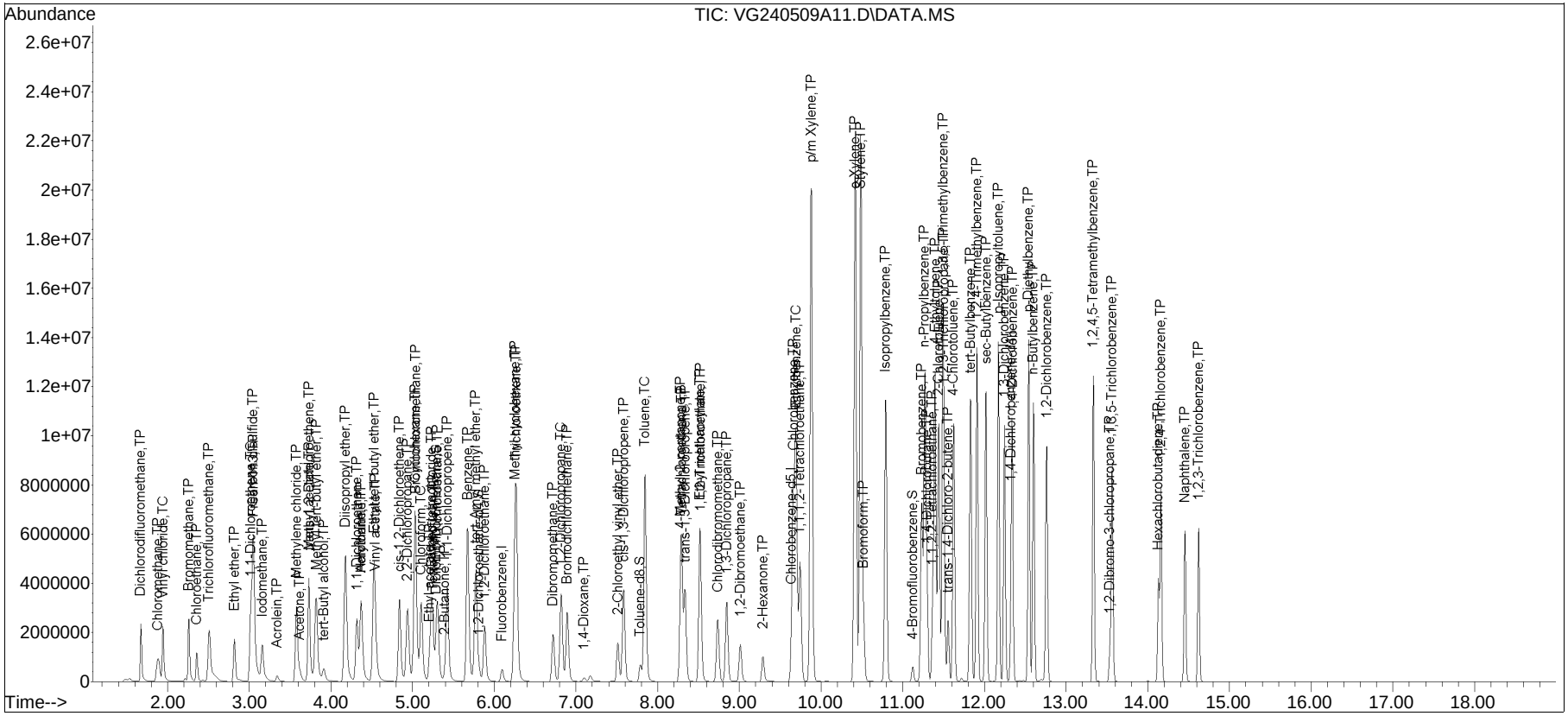
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

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

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

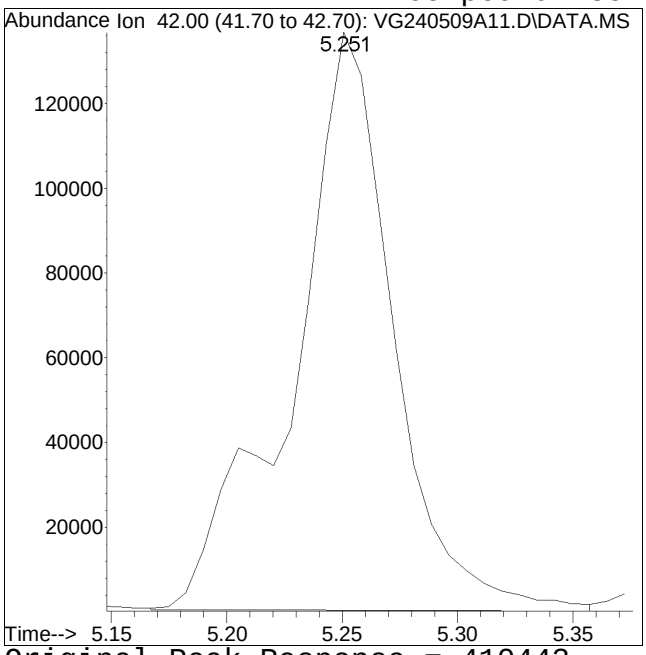
Sub List : 8260-Curve - Megamix plus DioxVG240509A08.D•



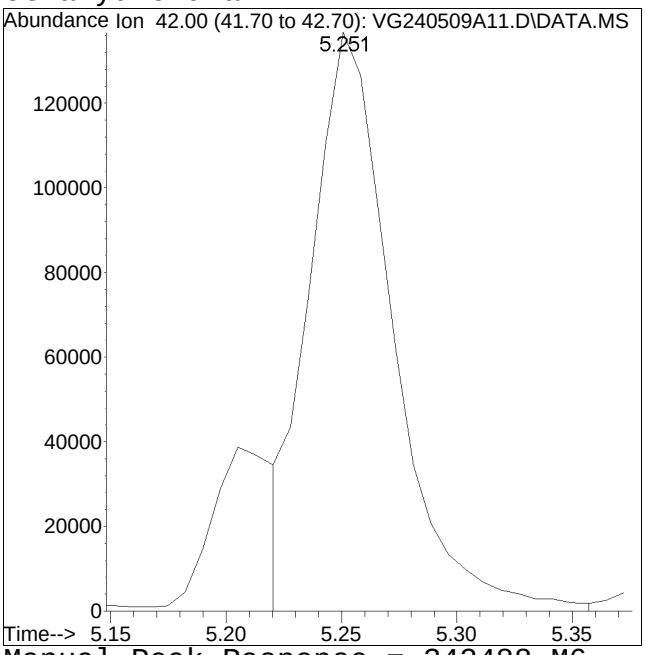
Manual Integration Report

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

Compound #35: Tetrahydrofuran



Original Peak Response = 410443



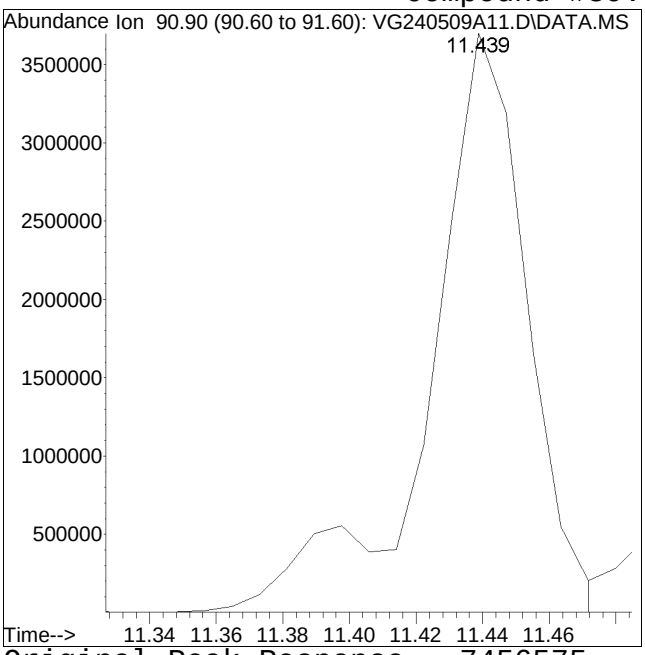
Manual Peak Response = 342488 M6

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

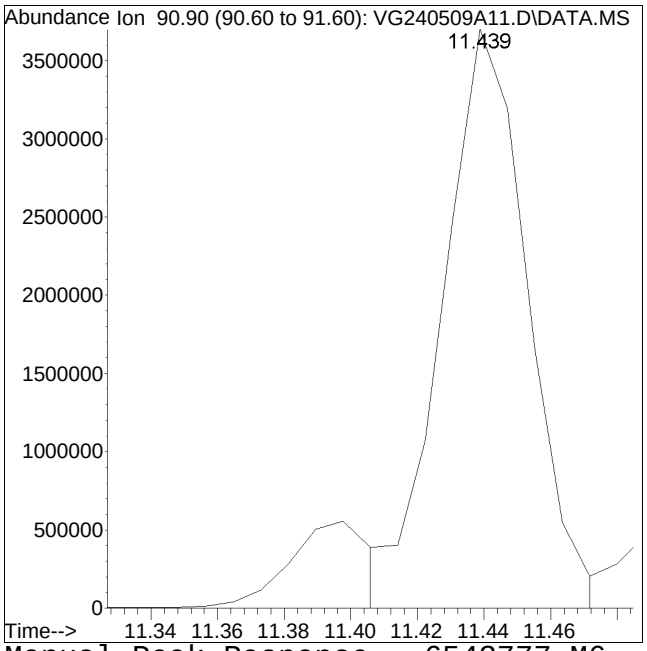
Manual Integration Report

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

Compound #89: 2-Chlorotoluene



Original Peak Response = 7456575



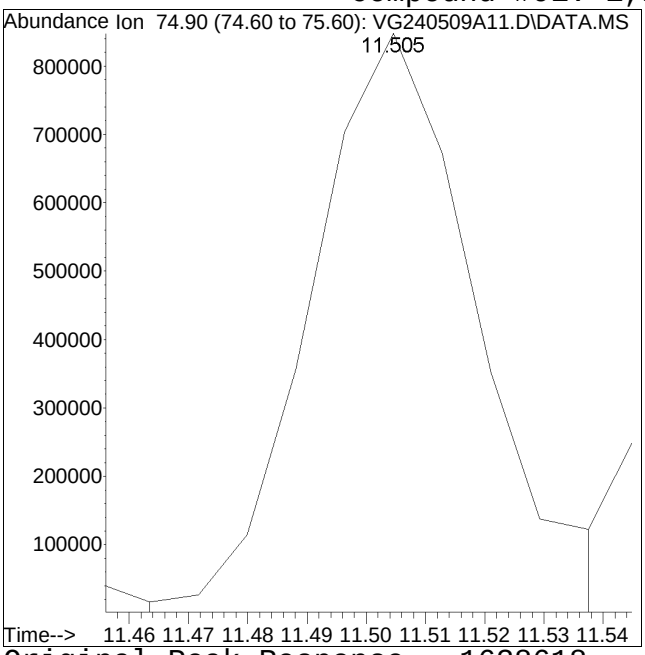
Manual Peak Response = 6543777 M6

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

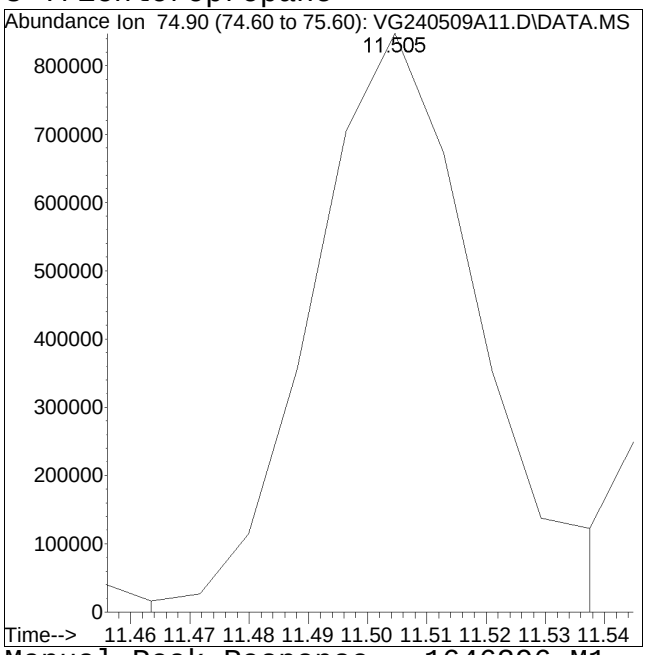
Manual Integration Report

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

Compound #91: 1,2,3-Trichloropropane



Original Peak Response = 1638618



Manual Peak Response = 1646296 M1

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

Quantitation Report (QT Reviewed)

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

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

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

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

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

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

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

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

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

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

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

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

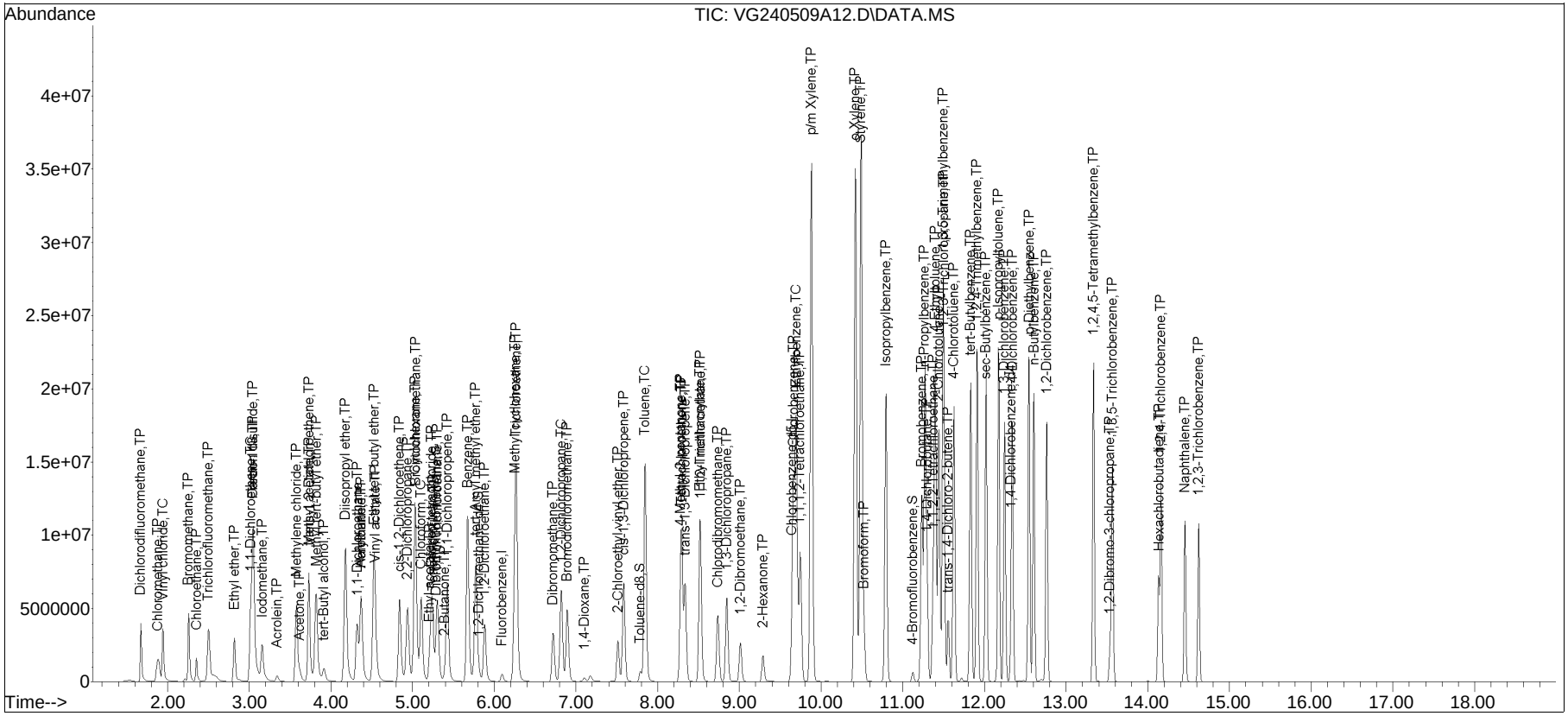
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

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

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

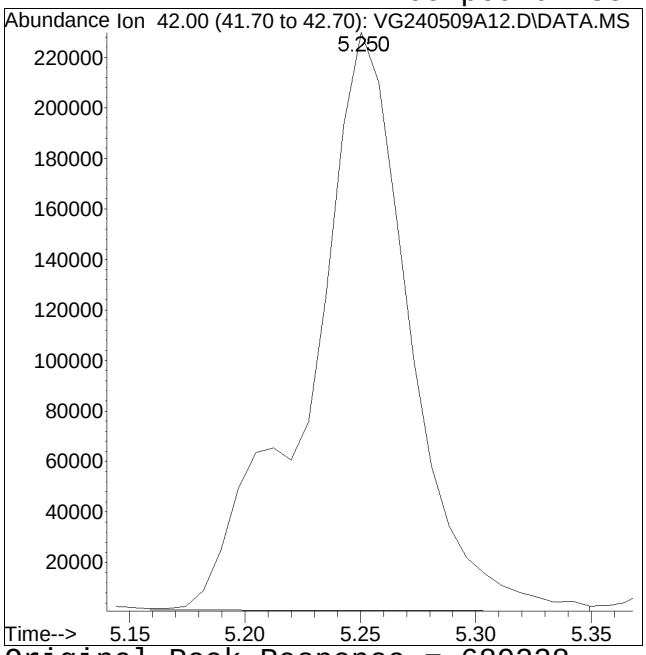
Sub List : 8260-Curve - Megamix plus DioxVG240509A08.D•



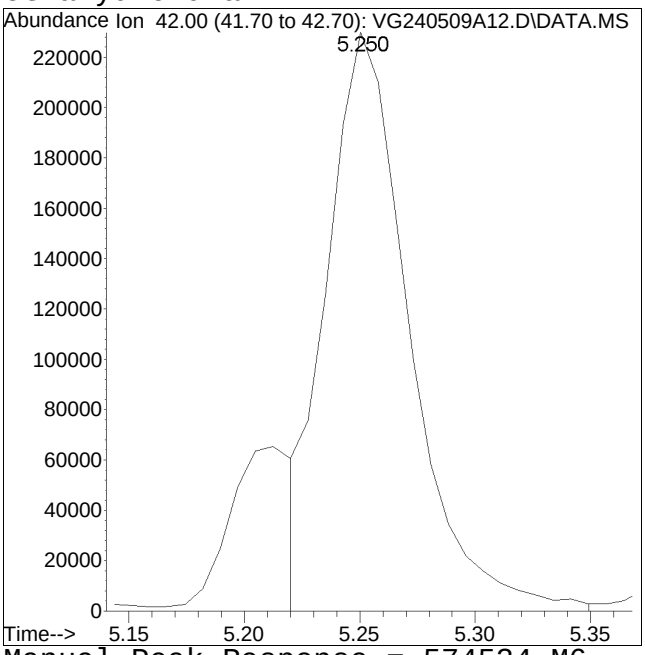
Manual Integration Report

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

Compound #35: Tetrahydrofuran



Original Peak Response = 689228



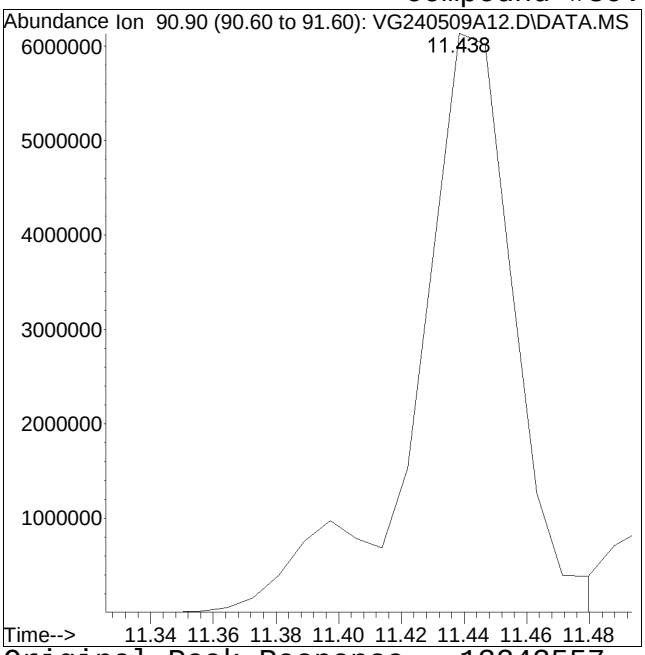
Manual Peak Response = 574534 M6

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

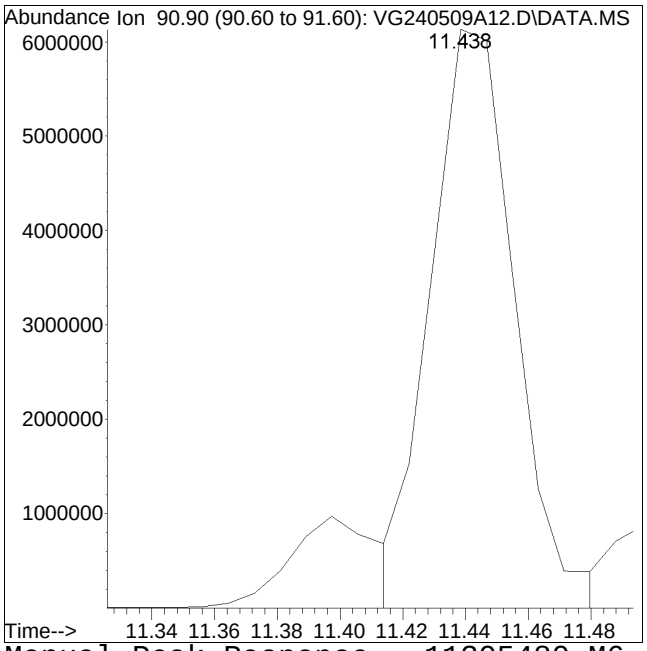
Manual Integration Report

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

Compound #89: 2-Chlorotoluene



Original Peak Response = 13243557



Manual Peak Response = 11395480 M6

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

Evaluate Continuing Calibration Report

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

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

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

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

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

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

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

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

Evaluate Continuing Calibration Report

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

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

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

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

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

Quantitation Report (QT Reviewed)

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

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

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

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

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

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

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

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

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

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

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

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

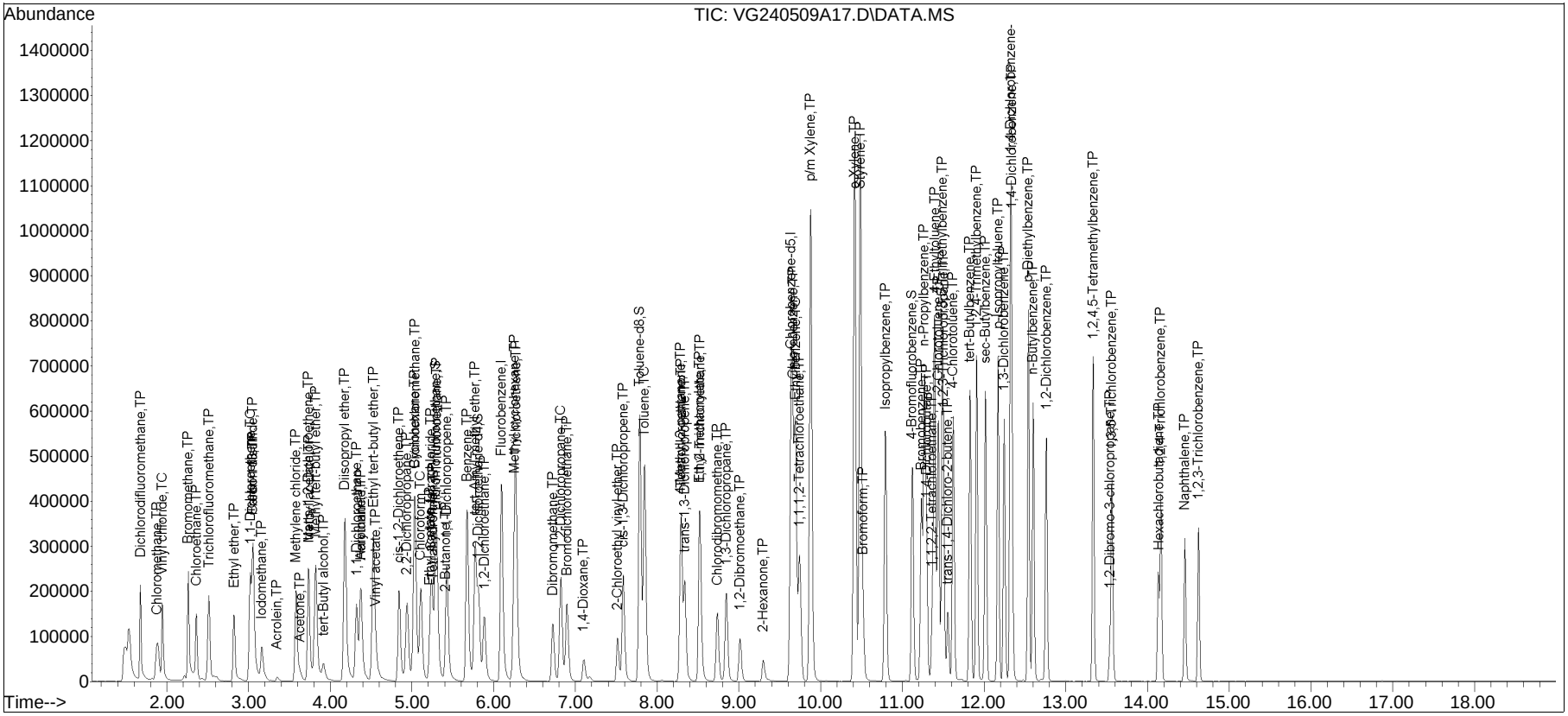
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

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

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

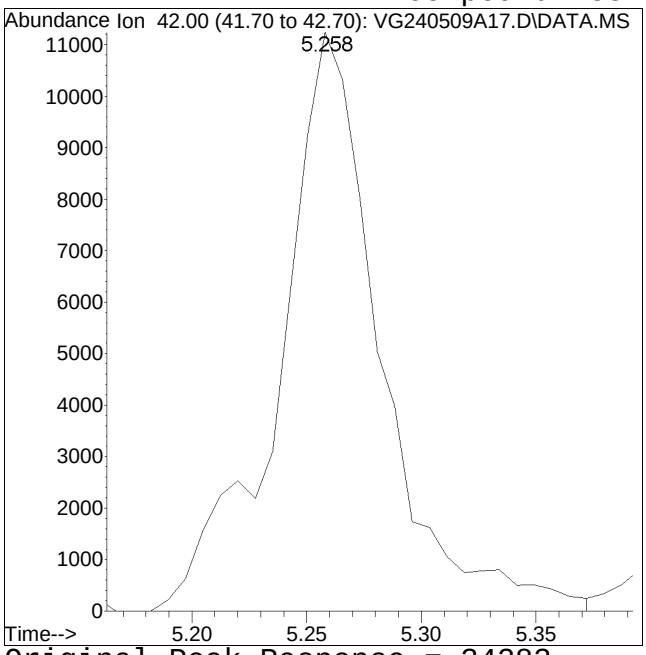
Sub List : 8260-Curve - Megamix plus DioxVG240509A08.D•



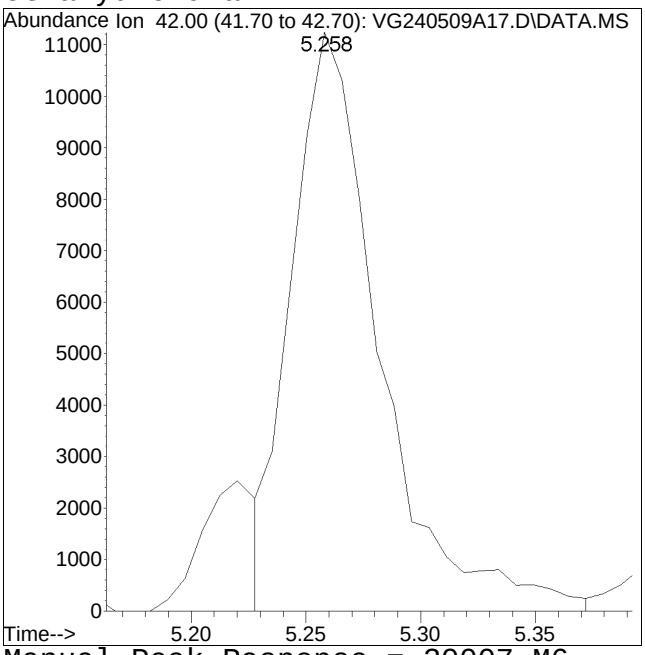
Manual Integration Report

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

Compound #35: Tetrahydrofuran



Original Peak Response = 34283



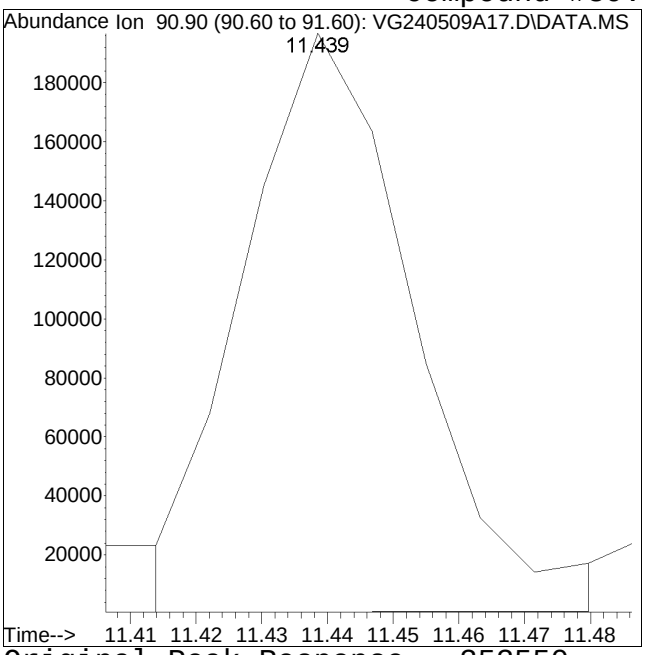
Manual Peak Response = 30007 M6

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

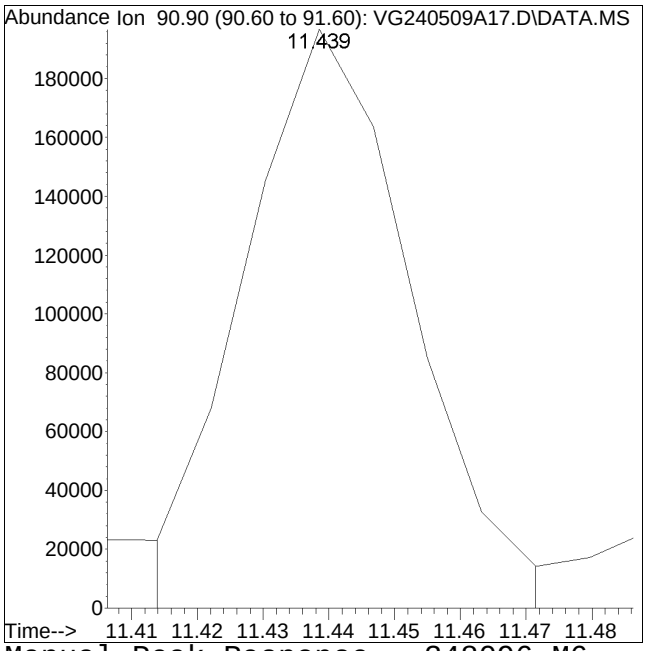
Manual Integration Report

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

Compound #89: 2-Chlorotoluene



Original Peak Response = 353550



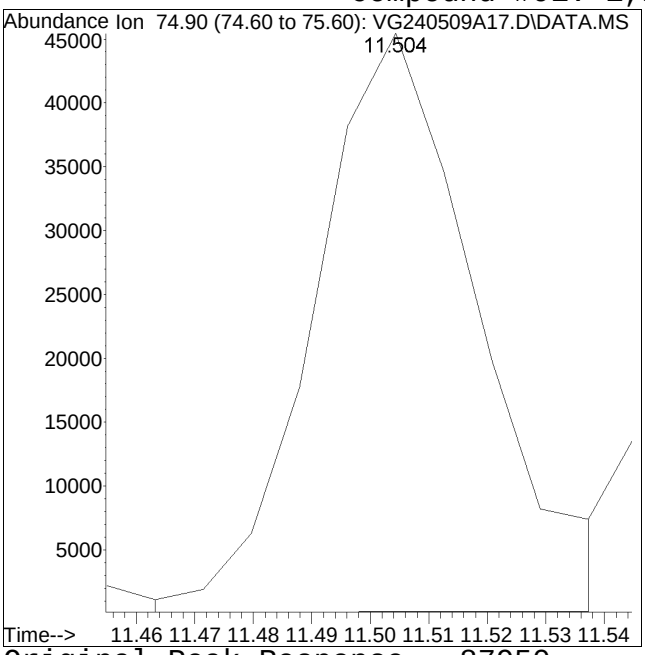
Manual Peak Response = 348096 M6

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

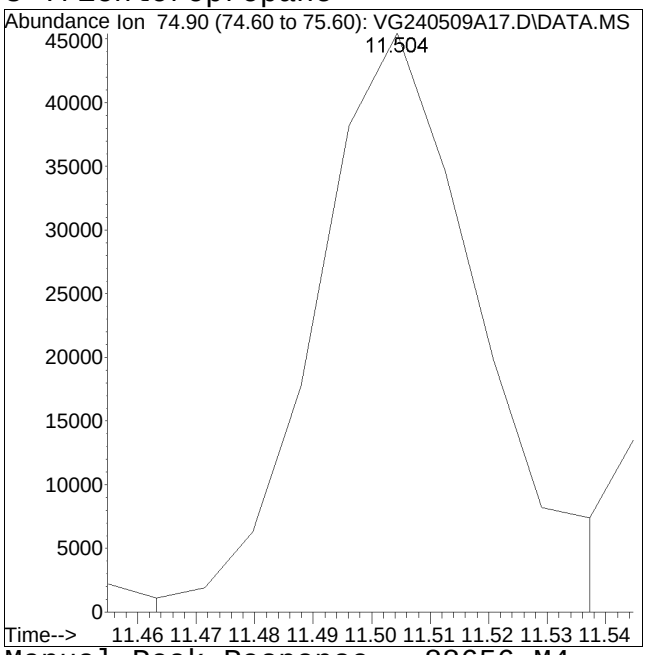
Manual Integration Report

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

Compound #91: 1,2,3-Trichloropropane



Original Peak Response = 87950



Manual Peak Response = 88656 M4

M4 = Poor automated baseline construction.

Evaluate Relative Error Report Gonzo

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

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

Calibration Correlation Report

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

Response Factor Report VOA 108

Method Path : K:\VOA108\2024\240514NICAL\
Method File : V108_240514N_8260.m
Title : VOLATILES BY GC/MS
Last Update : Wed May 15 09:35:21 2024
Response Via : Initial Calibration

Calibration Files
L11 =V08240514N03.d L1 =V08240514N05.d L2 =V08240514N07.d L3 =V08240514N09.d L4 =V08240514N10.d
L6 =V08240514N11.d L8 =V08240514N12.d L10 =V08240514N13.d

		Compound	L11	L1	L2	L3	L4	L6	L8	L10	Avg	%RSD
1)	I	Fluorobenzene	----------	ISTD	----------							
2)	TP	Dichlorodifluo...		0.200	0.257	0.230	0.228	0.223	0.226	0.252	0.231	8.19
3)	TP	Chloromethane		0.231	0.258	0.239	0.234	0.226	0.223	0.250	0.237	5.41
4)	TC	Vinyl chloride	0.256	0.225	0.274	0.257	0.253	0.243	0.244	0.271	0.253	6.31
5)	TP	Bromomethane		0.125	0.135	0.123	0.124	0.120	0.124	0.141	0.128	5.99
6)	TP	Chloroethane		0.143	0.158	0.145	0.142	0.133	0.129	0.142	0.142	6.37
7)	TP	Trichlorofluor...		0.278	0.362	0.336	0.332	0.322	0.325	0.361	0.331	8.59
8)	TP	Ethyl ether		0.109	0.106	0.097	0.096	0.092	0.091	0.101	0.099	6.87
10)	TC	1,1-Dichloroet...		0.145	0.182	0.166	0.163	0.157	0.161	0.181	0.165	8.00
11)	TP	Carbon disulfide		0.484	0.601	0.562	0.557	0.546	0.553	0.629	0.562	8.12
12)	TP	Freon-113		0.135	0.187	0.168	0.170	0.166	0.170	0.193	0.170	10.87
13)	TP	Iodomethane		0.193	0.239	0.251	0.267	0.270	0.274	0.302	0.257	13.40
14)	TP	Acrolein			0.031	0.027	0.028	0.026	0.027	0.030	0.028	7.35
15)	TP	Methylene chlo...			0.217	0.197	0.192	0.184	0.184	0.207	0.197	6.65
17)	TP	Acetone			0.047	0.040	0.038	0.035	0.036	0.040	0.039	11.19
18)	TP	trans-1,2-Dich...		0.167	0.206	0.188	0.186	0.178	0.180	0.203	0.187	7.37
19)	TP	Methyl acetate			0.116	0.104	0.103	0.098	0.100	0.114	0.106	6.81
20)	TP	Methyl tert-bu...		0.527	0.523	0.495	0.497	0.472	0.475	0.534	0.503	5.02
21)	TP	tert-Butyl alc...		0.014	0.015	0.014	0.014	0.013	0.013	0.015	0.014	5.09
22)	TP	Diisopropyl ether		0.717	0.719	0.686	0.681	0.660	0.667	0.757	0.698	4.92
23)	TP	1,1-Dichloroet...		0.341	0.397	0.369	0.365	0.350	0.350	0.395	0.367	6.01
24)	TP	Halothane		0.122	0.155	0.143	0.144	0.139	0.141	0.158	0.143	8.16
25)	TP	Acrylonitrile		0.051	0.051	0.046	0.047	0.044	0.045	0.051	0.048	6.24
26)	TP	Ethyl tert-but...		0.629	0.650	0.623	0.623	0.602	0.609	0.693	0.633	4.84
27)	TP	Vinyl acetate		0.517	0.436	0.340	0.450	0.414	0.439	0.459	0.436	12.17
28)	TP	cis-1,2-Dichlo...		0.205	0.220	0.211	0.208	0.199	0.199	0.225	0.209	4.79
29)	TP	2,2-Dichloropr...		0.286	0.337	0.300	0.317	0.302	0.306	0.341	0.313	6.48
30)	TP	Bromochloromet...		0.098	0.106	0.103	0.101	0.097	0.096	0.107	0.101	4.20
31)	TP	Cyclohexane		0.305	0.356	0.320	0.319	0.312	0.321	0.367	0.329	7.08
32)	TC	Chloroform		0.350	0.378	0.356	0.350	0.334	0.334	0.376	0.354	5.05
33)	TP	Ethyl acetate		0.162	0.183	0.157	0.155	0.146	0.148	0.167	0.160	7.89

Response Factor Report VOA 108

Method Path : K:\VOA108\2024\240514NICAL\
Method File : V108_240514N_8260.m
Title : VOLATILES BY GC/MS
Last Update : Wed May 15 09:35:21 2024
Response Via : Initial Calibration

Calibration Files
L11 =V08240514N03.d L1 =V08240514N05.d L2 =V08240514N07.d L3 =V08240514N09.d L4 =V08240514N10.d
L6 =V08240514N11.d L8 =V08240514N12.d L10 =V08240514N13.d

		Compound	L11	L1	L2	L3	L4	L6	L8	L10	Avg	%RSD
34)	TP	Carbon tetrach...	0.275	0.248	0.309	0.294	0.290	0.281	0.285	0.323	0.288	7.81
35)	TP	Tetrahydrofuran		0.045	0.050	0.043	0.042	0.040	0.040	0.045	0.044	8.13
36)	S	Dibromofluorom...	0.272	0.274	0.271	0.279	0.275	0.275	0.274	0.274	0.274	0.89
37)	TP	1,1,1-Trichlor...		0.282	0.334	0.311	0.309	0.295	0.298	0.336	0.309	6.54
39)	TP	2-Butanone			0.070	0.071	0.068	0.064	0.064	0.072	0.068	5.32
40)	TP	1,1-Dichloropr...		0.220	0.272	0.258	0.257	0.247	0.250	0.283	0.255	7.84
41)	TP	Benzene	0.806	0.743	0.806	0.764	0.767	0.738	0.741	0.837	0.775	4.77
42)	TP	tert-Amyl meth...		0.558	0.562	0.535	0.532	0.509	0.514	0.582	0.542	4.95
43)	S	1,2-Dichloroet...	0.295	0.302	0.300	0.306	0.308	0.310	0.312	0.323	0.307	2.73
44)	TP	1,2-Dichloroet...		0.271	0.276	0.258	0.255	0.243	0.244	0.274	0.260	5.33
47)	TP	Methyl cyclohe...		0.257	0.327	0.300	0.304	0.300	0.309	0.357	0.308	9.90
48)	TP	Trichloroethene	0.209	0.181	0.217	0.211	0.198	0.195	0.196	0.231	0.205	7.47
50)	TP	Dibromomethane		0.115	0.124	0.116	0.119	0.113	0.114	0.128	0.118	4.78
51)	TC	1,2-Dichloropr...		0.192	0.217	0.207	0.206	0.197	0.198	0.224	0.206	5.63
53)	TP	2-Chloroethyl ...		0.104	0.115	0.108	0.110	0.106	0.106	0.120	0.110	5.22
54)	TP	Bromodichlorom...		0.283	0.291	0.276	0.281	0.271	0.272	0.308	0.283#	4.55
57)	TP	1,4-Dioxane		0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001#	5.74
58)	TP	cis-1,3-Dichlo...		0.321	0.334	0.323	0.326	0.316	0.318	0.360	0.328	4.58
59)	I	Chlorobenzene-d5	----------ISTD----------									
60)	S	Toluene-d8	1.334	1.329	1.296	1.316	1.328	1.308	1.305	1.284	1.313	1.33
61)	TC	Toluene		0.645	0.680	0.647	0.649	0.630	0.629	0.695	0.654	3.82
62)	TP	4-Methyl-2-pen...		0.060	0.074	0.071	0.074	0.071	0.073	0.080	0.072	8.54
63)	TP	Tetrachloroethene		0.246	0.285	0.273	0.271	0.262	0.265	0.292	0.271	5.58
65)	TP	trans-1,3-Dich...		0.398	0.384	0.379	0.396	0.379	0.381	0.419	0.391	3.78
67)	TP	Ethyl methacry...		0.281	0.279	0.274	0.278	0.268	0.268	0.298	0.278	3.70
68)	TP	1,1,2-Trichlor...		0.188	0.183	0.173	0.175	0.169	0.169	0.187	0.178#	4.52
69)	TP	Chlorodibromom...		0.265	0.274	0.274	0.283	0.275	0.275	0.302	0.278	4.14
70)	TP	1,3-Dichloropr...		0.366	0.373	0.364	0.368	0.348	0.346	0.377	0.363	3.28
71)	TP	1,2-Dibromoethane		0.204	0.212	0.210	0.210	0.201	0.200	0.218	0.208	3.01
72)	TP	2-Hexanone		0.214	0.153	0.138	0.141	0.131	0.131	0.143	0.150	19.55
73)	TP	Chlorobenzene		0.705	0.751	0.726	0.730	0.703	0.698	0.768	0.726	3.61

Method Path : K:\VOA108\2024\240514NICAL\
Method File : V108_240514N_8260.m
Title : VOLATILES BY GC/MS
Last Update : Wed May 15 09:35:21 2024
Response Via : Initial Calibration

Calibration Files
L11 =V08240514N03.d L1 =V08240514N05.d L2 =V08240514N07.d L3 =V08240514N09.d L4 =V08240514N10.d
L6 =V08240514N11.d L8 =V08240514N12.d L10 =V08240514N13.d

		Compound		L11	L1	L2	L3	L4	L6	L8	L10	Avg	%RSD
74)	TC	Ethylbenzene		1.156	1.257	1.240	1.250	1.222	1.216	1.338	1.240		4.42
75)	TP	1,1,1,2-Tetrac...		0.264	0.278	0.277	0.279	0.270	0.270	0.296	0.276		3.72
76)	TP	p/m Xylene		0.446	0.494	0.479	0.491	0.478	0.484	0.535	0.487		5.49
77)	TP	o Xylene		0.446	0.479	0.473	0.478	0.468	0.472	0.522	0.477		4.80
78)	TP	Styrene		0.746	0.796	0.794	0.808	0.795	0.800	0.873	0.802		4.65
79)	I	1,4-Dichlorobenzene-d4	----------ISTD----------										
80)	TP	Bromoform		0.323	0.307	0.322	0.341	0.336	0.340	0.362	0.333		5.26
82)	TP	Isopropylbenzene		2.259	2.482	2.469	2.516	2.472	2.496	2.658	2.479		4.72
83)	S	4-Bromofluorob...	0.963	0.968	0.948	0.957	0.958	0.951	0.951	0.920	0.952		1.53
84)	TP	Bromobenzene		0.642	0.623	0.614	0.629	0.605	0.609	0.649	0.625		2.66
85)	TP	n-Propylbenzene		2.708	2.926	2.897	2.965	2.932	2.949	3.126	2.929		4.20
86)	TP	1,4-Dichlorobu...		0.832	0.714	0.693	0.704	0.692	0.700	0.763	0.728		7.09
87)	TP	1,1,2,2-Tetrac...		0.548	0.480	0.473	0.510	0.485	0.493	0.514	0.500		5.18
88)	TP	4-Ethyltoluene		2.258	2.370	2.395	2.454	2.400	2.401	2.560	2.405		3.76
89)	TP	2-Chlorotoluene		1.709	1.738	1.722	1.756	1.719	1.726	1.823	1.742		2.24
90)	TP	1,3,5-Trimethy...		1.971	2.092	2.107	2.166	2.136	2.151	2.308	2.133		4.71
91)	TP	1,2,3-Trichlor...		0.428	0.423	0.408	0.413	0.403	0.410	0.444	0.418		3.37
92)	TP	trans-1,4-Dich...		0.159	0.149	0.149	0.155	0.153	0.155	0.164	0.155		3.49
93)	TP	4-Chlorotoluene		1.792	1.789	1.795	1.816	1.773	1.779	1.924	1.810		2.88
94)	TP	tert-Butylbenzene		1.696	1.853	1.808	1.840	1.795	1.805	1.933	1.818		3.92
97)	TP	1,2,4-Trimethy...		1.933	2.043	2.075	2.136	2.122	2.124	2.278	2.102		4.99
98)	TP	sec-Butylbenzene		2.340	2.653	2.629	2.694	2.658	2.666	2.820	2.637		5.51
99)	TP	p-Isopropyltol...		2.101	2.283	2.300	2.361	2.345	2.342	2.507	2.320		5.21
100)	TP	1,3-Dichlorobe...		1.223	1.196	1.180	1.204	1.182	1.182	1.258	1.204		2.36
101)	TP	1,4-Dichlorobe...		1.242	1.208	1.187	1.211	1.187	1.184	1.270	1.213		2.68
102)	TP	p-Diethylbenzene		1.220	1.311	1.335	1.392	1.389	1.398	1.517	1.366		6.71
103)	TP	n-Butylbenzene		1.764	1.996	1.977	2.057	2.037	2.049	2.197	2.011		6.46
104)	TP	1,2-Dichlorobe...		1.161	1.136	1.114	1.136	1.111	1.106	1.178	1.134		2.37
105)	TP	1,2,4,5-Tetram...		2.025	2.134	2.184	2.272	2.244	2.266	2.446	2.224		5.90
106)	TP	1,2-Dibromo-3-...		0.051	0.079	0.079	0.082	0.079	0.080	0.084	0.076		14.80
107)	TP	1,3,5-Trichlor...		0.891	0.896	0.882	0.924	0.898	0.897	0.976	0.909		3.54

Method Path : K:\VOA108\2024\240514NICAL\
Method File : V108_240514N_8260.m
Title : VOLATILES BY GC/MS
Last Update : Wed May 15 09:35:21 2024
Response Via : Initial Calibration

Calibration Files
L11 =V08240514N03.d L1 =V08240514N05.d L2 =V08240514N07.d L3 =V08240514N09.d L4 =V08240514N10.d
L6 =V08240514N11.d L8 =V08240514N12.d L10 =V08240514N13.d

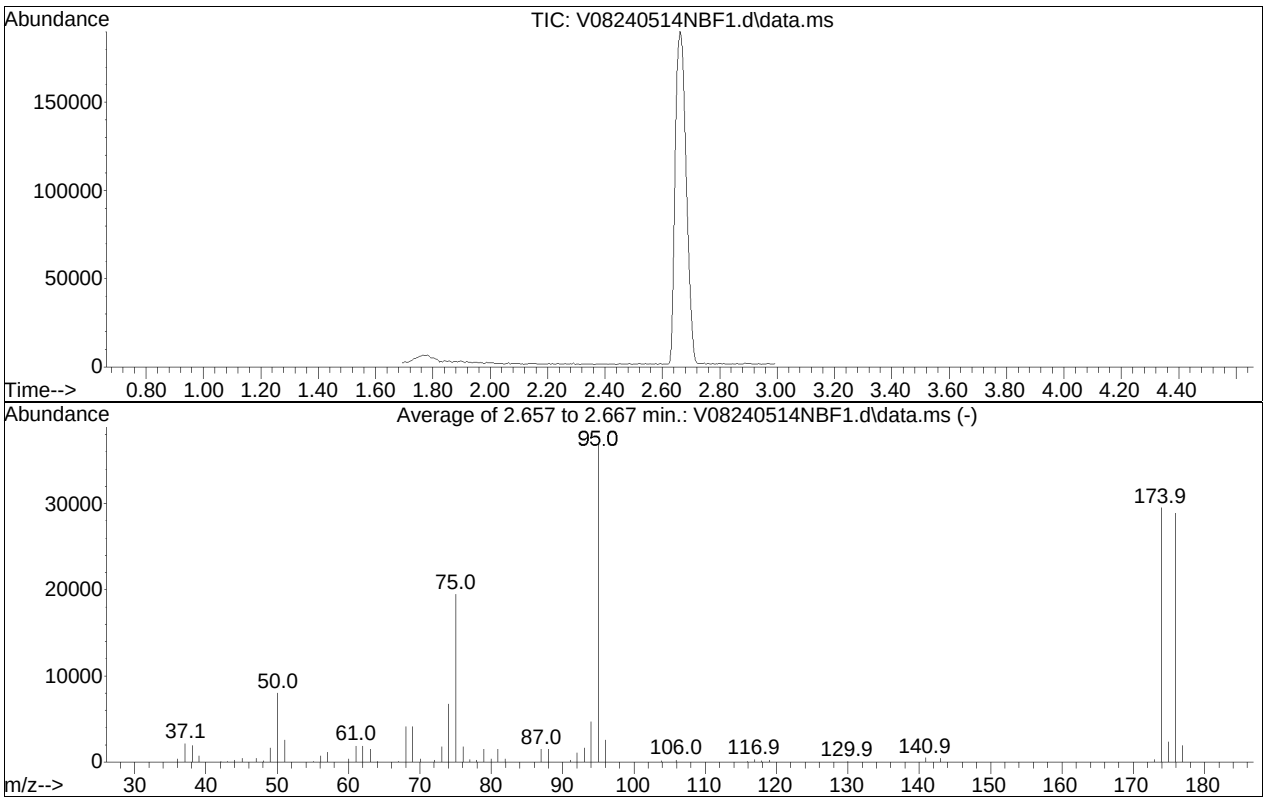
	Compound	L11	L1	L2	L3	L4	L6	L8	L10	Avg	%RSD
108)	TP Hexachlorobuta...	0.350	0.406	0.390	0.399	0.387	0.389	0.422	0.392		5.68
109)	TP 1,2,4-Trichlor...	0.833	0.802	0.799	0.821	0.798	0.797	0.873	0.817		3.44
110)	TP Naphthalene	1.721	1.602	1.600	1.631	1.565	1.573	1.690	1.626		3.62
111)	TP 1,2,3-Trichlor...	0.730	0.733	0.728	0.739	0.723	0.716	0.781	0.736		2.88

(#) = Out of Range

Data Path : K:\VOA108\2024\240514NICAL\
Data File : V08240514NBF1.d
Acq On : 14 May 2024 6:32 pm
Operator : VOA108:TMS
Sample : WG1921348-1
Misc : WG1921348
ALS Vial : 1 Sample Multiplier: 1

Integration File: rteint.p

Method : K:\VOA108\2024\240514NICAL\V108_240514N_8260.m
Title : VOLATILES BY GC/MS
Last Update : Wed May 15 09:35:21 2024



AutoFind: Scans 185, 186, 187; Background Corrected with Scan 176

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	21.6	8016	PASS
75	95	30	60	52.5	19472	PASS
95	95	100	100	100.0	37075	PASS
96	95	5	9	7.0	2596	PASS
173	174	0.00	2	1.0	293	PASS
174	95	50	100	79.7	29539	PASS
175	174	5	9	8.0	2360	PASS
176	174	95	101	97.8	28899	PASS
177	176	5	9	6.6	1911	PASS

Quantitation Report (QT Reviewed)

Data Path : K:\VOA108\2024\240514NICAL\
Data File : V08240514N03.d
Acq On : 14 May 2024 7:49 pm
Operator : VOA108:PID
Sample : I8260STD0.19PPB
Misc : WG1921348,ICAL
ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 15 09:29:37 2024
Quant Method : K:\VOA108\2024\240514NICAL\V108_240514N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed May 15 09:29:12 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA108\2024\240514NICAL\V08240514N09.d
Sub List : 8260-L11 - Level 11 for 8260-LRR product

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	6.046	96	344667	10.000	ug/L	0.00
Standard Area 1 = 354232			Recovery =	97.30%		
59) Chlorobenzene-d5	9.574	117	251308	10.000	ug/L	0.00
Standard Area 1 = 261628			Recovery =	96.06%		
79) 1,4-Dichlorobenzene-d4	12.264	152	122351	10.000	ug/L	0.00
Standard Area 1 = 128716			Recovery =	95.06%		
System Monitoring Compounds						
36) Dibromofluoromethane	5.238	113	93847	9.930	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	99.30%		
43) 1,2-Dichloroethane-d4	5.763	65	101827	9.627	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	96.27%		
60) Toluene-d8	7.734	98	335218	10.162	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	101.62%		
83) 4-Bromofluorobenzene	11.058	95	117883	10.119	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	101.19%		
Target Compounds						Qvalue
4) Vinyl chloride	1.946	62	1675	0.192	ug/L	94
34) Carbon tetrachloride	5.217	117	1804	0.182	ug/L #	69
41) Benzene	5.632	78	5280	0.198	ug/L #	78
48) Trichloroethene	6.224	95	1367	0.194	ug/L	96

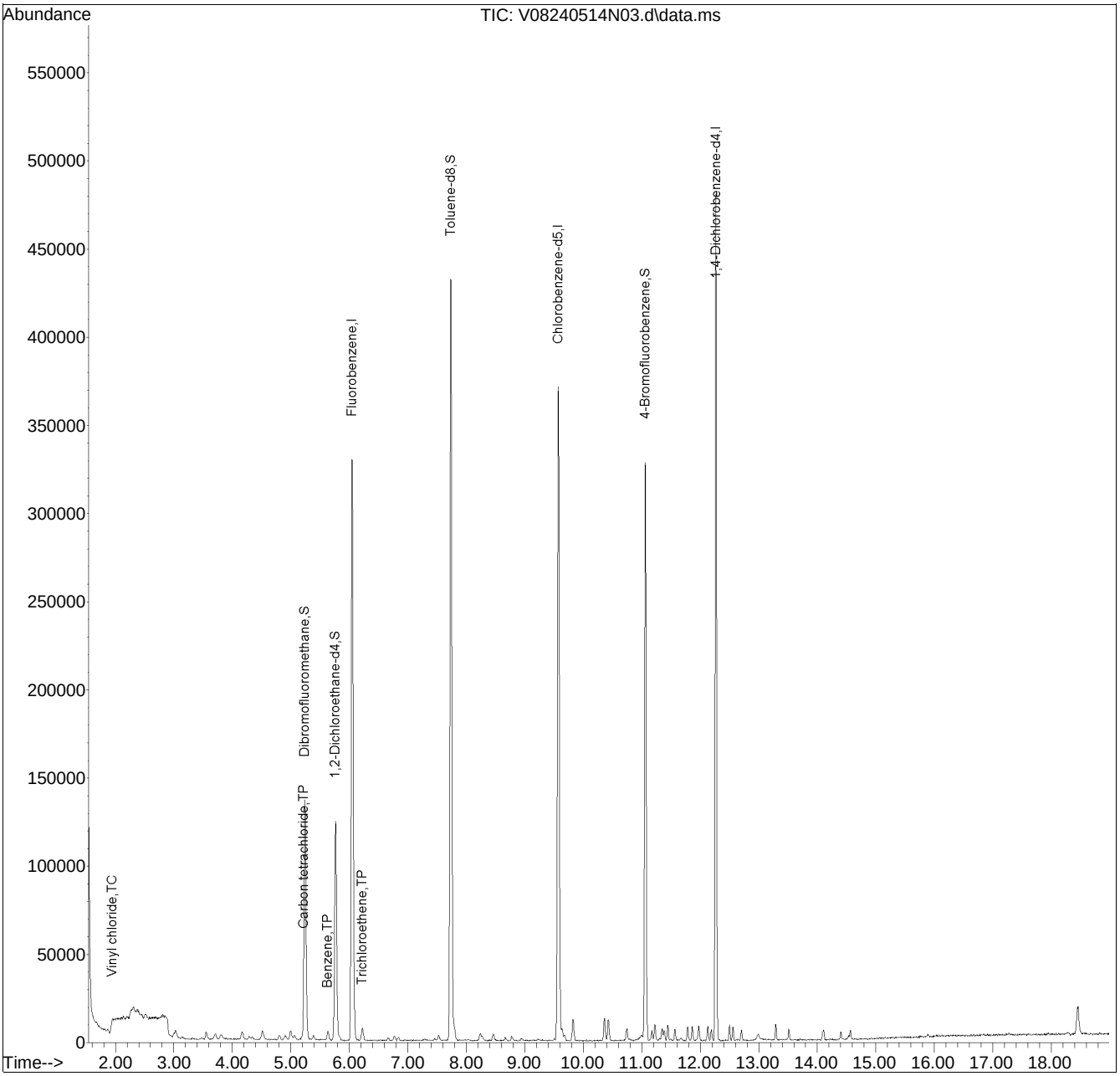
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : K:\VOA108\2024\240514NICAL\
Data File : V08240514N03.d
Acq On : 14 May 2024 7:49 pm
Operator : VOA108:PID
Sample : I8260STD0.19PPB
Misc : WG1921348,ICAL
ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 15 09:29:37 2024
Quant Method : K:\VOA108\2024\240514NICAL\V108_240514N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed May 15 09:29:12 2024
Response via : Initial Calibration

Sub List : 8260-L11 - Level 11 for 8260-LRR productN09.d•



Manual Integration Report

Data Path	: K:\VOA108\2024\240514NICALQ	Method	: V108_240514N_8260.m
Data File	: V08240514N03.d	Operator	: VOA108:PID
Date Inj'd	: 5/14/2024 7:49 pm	Instrument	: VOA 108
Sample	: I8260STD0.19PPB	Quant Date	: 5/15/2024 9:29 am

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

Quantitation Report (QT Reviewed)

Data Path : K:\VOA108\2024\240514NICAL\
Data File : V08240514N05.d
Acq On : 14 May 2024 8:34 pm
Operator : VOA108:PID
Sample : I8260STD0.5PPB
Misc : WG1921348,ICAL
ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 15 09:29:44 2024
Quant Method : K:\VOA108\2024\240514NICAL\V108_240514N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed May 15 09:29:12 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA108\2024\240514NICAL\V08240514N09.d
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	6.051	96	332429	10.000	ug/L	0.00
Standard Area 1 = 354232			Recovery =	93.84%		
59) Chlorobenzene-d5	9.574	117	243924	10.000	ug/L	0.00
Standard Area 1 = 261628			Recovery =	93.23%		
79) 1,4-Dichlorobenzene-d4	12.269	152	116894	10.000	ug/L	0.00
Standard Area 1 = 128716			Recovery =	90.82%		
System Monitoring Compounds						
36) Dibromofluoromethane	5.244	113	91174	10.002	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	100.02%		
43) 1,2-Dichloroethane-d4	5.768	65	100301	9.832	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	98.32%		
60) Toluene-d8	7.739	98	324190	10.125	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	101.25%		
83) 4-Bromofluorobenzene	11.058	95	113183	10.169	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	101.69%		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.678	85	3330	0.434	ug/L	88
3) Chloromethane	1.867	50	3833	0.486	ug/L	96
4) Vinyl chloride	1.941	62	3737	0.444	ug/L	97
5) Bromomethane	2.255	94	2081	0.491	ug/L	88
6) Chloroethane	2.376	64	2383	0.506	ug/L	69
7) Trichlorofluoromethane	2.517	101	4620	0.420	ug/L	99
8) Ethyl ether	2.811	74	1810	0.551	ug/L #	60
10) 1,1-Dichloroethene	3.005	96	2405	0.439	ug/L #	66
11) Carbon disulfide	3.031	76	8042	0.431	ug/L	93
12) Freon-113	3.036	101	2246	0.398	ug/L	93
13) Iodomethane	3.141	142	3207	0.376	ug/L	86
14) Acrolein	3.320	56	883	0.842	ug/L #	54
15) Methylene chloride	3.555	84	6945	0.915	ug/L	74
17) Acetone	3.592	43	1795	1.100	ug/L #	71
18) trans-1,2-Dichloroethene	3.707	96	2775	0.447	ug/L	79
19) Methyl acetate	3.718	43	2901	0.755	ug/L #	85
20) Methyl tert-butyl ether	3.807	73	8766	0.524	ug/L	94
21) tert-Butyl alcohol	3.901	59	1133	2.462	ug/L #	75
22) Diisopropyl ether	4.169	45	11917	0.514	ug/L	92
23) 1,1-Dichloroethane	4.289	63	5667	0.465	ug/L	98
24) Halothane	4.337	117	2029	0.427	ug/L	96

Data Path : K:\VOA108\2024\240514NICAL\
Data File : V08240514N05.d
Acq On : 14 May 2024 8:34 pm
Operator : VOA108:PID
Sample : I8260STD0.5PPB
Misc : WG1921348,ICAL
ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 15 09:29:44 2024
Quant Method : K:\VOA108\2024\240514NICAL\V108_240514N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed May 15 09:29:12 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA108\2024\240514NICAL\V08240514N09.d
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
25) Acrylonitrile	4.331	53	843	0.532	ug/L	#	72
26) Ethyl tert-butyl ether	4.515	59	10462	0.497	ug/L	#	78
27) Vinyl acetate	4.525	43	8586	0.592	ug/L	#	93
28) cis-1,2-Dichloroethene	4.809	96	3405	0.489	ug/L	#	71
29) 2,2-Dichloropropane	4.903	77	4755	0.457	ug/L		96
30) Bromochloromethane	4.997	128	1637	0.487	ug/L	#	65
31) Cyclohexane	5.003	56	5077	0.465	ug/L		76
32) Chloroform	5.065	83	5815	0.494	ug/L		95
33) Ethyl acetate	5.176	43	2691M6	0.507	ug/L		
34) Carbon tetrachloride	5.197	117	4114	0.430	ug/L	#	84
35) Tetrahydrofuran	5.217	42	754M6	0.518	ug/L		
37) 1,1,1-Trichloroethane	5.270	97	4683	0.455	ug/L	#	91
39) 2-Butanone	0.000		0	N.D.	d		
40) 1,1-Dichloropropene	5.396	75	3654	0.431	ug/L		97
41) Benzene	5.632	78	12357	0.479	ug/L		91
42) tert-Amyl methyl ether	5.742	73	9276	0.515	ug/L		95
44) 1,2-Dichloroethane	5.831	62	4509	0.521	ug/L		94
47) Methyl cyclohexane	6.219	83	4264	0.417	ug/L		93
48) Trichloroethene	6.229	95	3015	0.443	ug/L		95
50) Dibromomethane	6.665	93	1915	0.486	ug/L		97
51) 1,2-Dichloropropane	6.764	63	3193	0.467	ug/L		94
53) 2-Chloroethyl vinyl ether	7.462	63	1734	0.474	ug/L	#	40
54) Bromodichloromethane	6.843	83	4699	0.500	ug/L	#	97
57) 1,4-Dioxane	7.047	88	4086	104.987	ug/L	#	74
58) cis-1,3-Dichloropropene	7.530	75	5333	0.489	ug/L		88
61) Toluene	7.797	92	7865	0.493	ug/L		94
62) 4-Methyl-2-pentanone	8.227	58	727	0.415	ug/L	#	1
63) Tetrachloroethene	8.237	166	2997	0.454	ug/L		84
65) trans-1,3-Dichloropropene	8.269	75	4858	0.509	ug/L		94
67) Ethyl methacrylate	8.468	69	3423M6	0.505	ug/L		
68) 1,1,2-Trichloroethane	8.458	83	2295	0.529	ug/L		98
69) Chlorodibromomethane	8.662	129	3238	0.477	ug/L		97
70) 1,3-Dichloropropane	8.783	76	4466	0.504	ug/L		96
71) 1,2-Dibromoethane	8.951	107	2489	0.491	ug/L		98
72) 2-Hexanone	9.239	43	2616	0.714	ug/L	#	75
73) Chlorobenzene	9.595	112	8602	0.486	ug/L	#	81
74) Ethylbenzene	9.637	91	14094	0.466	ug/L		96
75) 1,1,1,2-Tetrachloroethane	9.674	131	3216	0.478	ug/L	#	68
76) p/m Xylene	9.826	106	10868	0.916	ug/L		99
77) o Xylene	10.361	106	10872	0.935	ug/L		92

Quantitation Report (QT Reviewed)

Data Path : K:\VOA108\2024\240514NICAL\
Data File : V08240514N05.d
Acq On : 14 May 2024 8:34 pm
Operator : VOA108:PID
Sample : I8260STD0.5PPB
Misc : WG1921348,ICAL
ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 15 09:29:44 2024
Quant Method : K:\VOA108\2024\240514NICAL\V108_240514N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed May 15 09:29:12 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA108\2024\240514NICAL\V08240514N09.d
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
78) Styrene	10.424	104	18198	0.931	ug/L		93
80) Bromoform	10.445	173	1889	0.485	ug/L		93
82) Isopropylbenzene	10.738	105	13205	0.456	ug/L		95
84) Bromobenzene	11.174	156	3753	0.514	ug/L		97
85) n-Propylbenzene	11.221	91	15825	0.462	ug/L		96
86) 1,4-Dichlorobutane	11.231	55	4860	0.571	ug/L		92
87) 1,1,2,2-Tetrachloroethane	11.299	83	3205	0.548	ug/L		93
88) 4-Ethyltoluene	11.347	105	13200	0.469	ug/L		98
89) 2-Chlorotoluene	11.389	91	9989M6	0.491	ug/L		
90) 1,3,5-Trimethylbenzene	11.446	105	11521	0.462	ug/L		90
91) 1,2,3-Trichloropropane	11.441	75	2500	0.511	ug/L		92
92) trans-1,4-Dichloro-2-b...	11.493	53	929	0.514	ug/L	#	69
93) 4-Chlorotoluene	11.567	91	10473	0.495	ug/L		96
94) tert-Butylbenzene	11.782	119	9914	0.466	ug/L		96
97) 1,2,4-Trimethylbenzene	11.860	105	11297	0.460	ug/L		94
98) sec-Butylbenzene	11.976	105	13675	0.444	ug/L		98
99) p-Isopropyltoluene	12.128	119	12277	0.453	ug/L		97
100) 1,3-Dichlorobenzene	12.191	146	7147	0.508	ug/L		96
101) 1,4-Dichlorobenzene	12.280	146	7259	0.512	ug/L	#	81
102) p-Diethylbenzene	12.500	119	7130	0.447	ug/L		95
103) n-Butylbenzene	12.558	91	10311	0.439	ug/L		98
104) 1,2-Dichlorobenzene	12.705	146	6786	0.512	ug/L		97
105) 1,2,4,5-Tetramethylben...	13.292	119	11833	0.455	ug/L		98
106) 1,2-Dibromo-3-chloropr...	13.480	155	299	0.334	ug/L	#	56
107) 1,3,5-Trichlorobenzene	13.512	180	5207	0.490	ug/L		92
108) Hexachlorobutadiene	14.089	225	2045	0.446	ug/L		93
109) 1,2,4-Trichlorobenzene	14.110	180	4867	0.509	ug/L		95
110) Naphthalene	14.403	128	10057	0.529	ug/L		100
111) 1,2,3-Trichlorobenzene	14.571	180	4264	0.496	ug/L		99

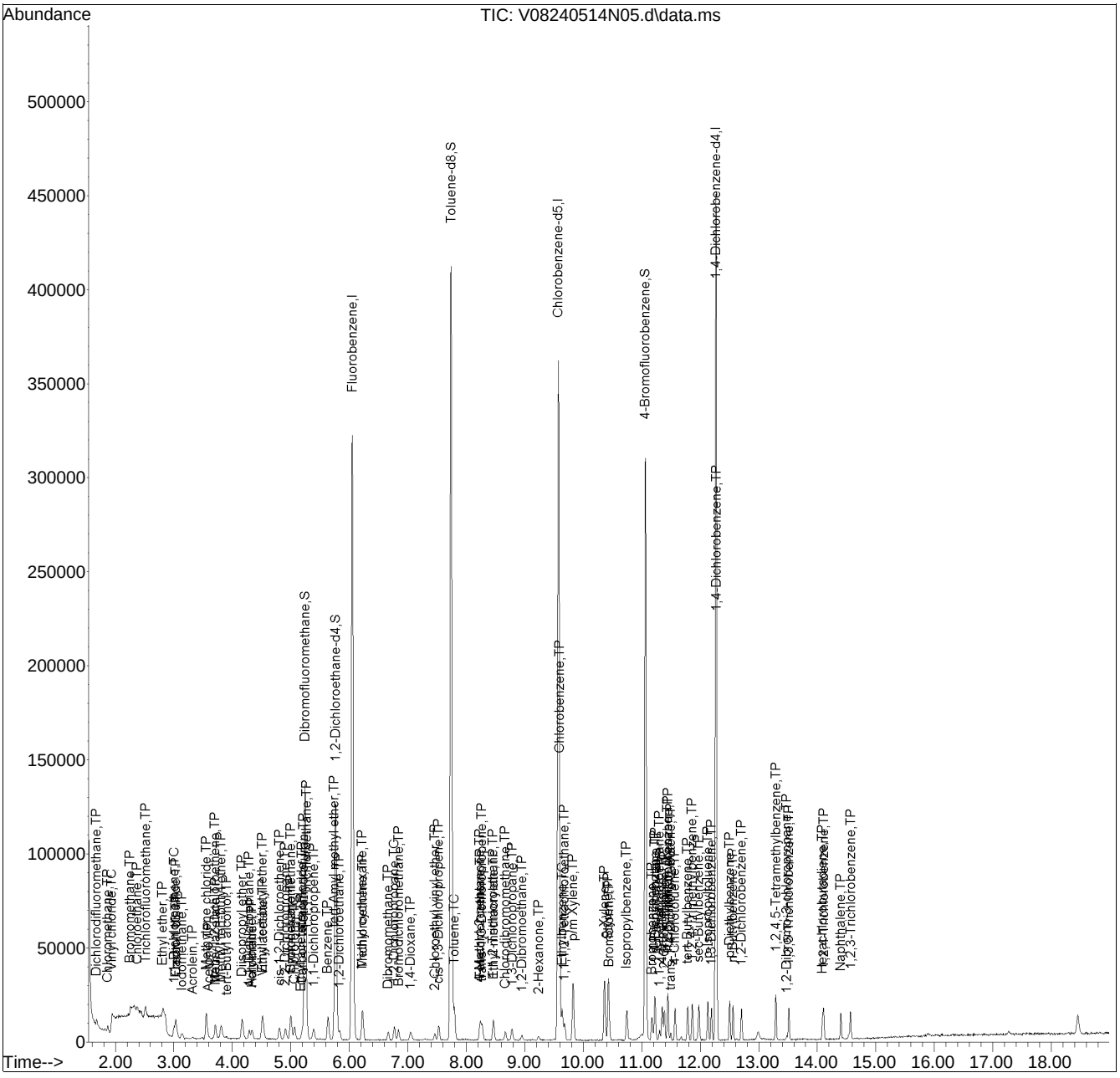
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : K:\VOA108\2024\240514NICAL\
Data File : V08240514N05.d
Acq On : 14 May 2024 8:34 pm
Operator : VOA108:PID
Sample : I8260STD0.5PPB
Misc : WG1921348,ICAL
ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 15 09:29:44 2024
Quant Method : K:\VOA108\2024\240514NICAL\V108_240514N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed May 15 09:29:12 2024
Response via : Initial Calibration

Sub List : 8260-Curve - Megamix plus Diox\V08240514N09.d•

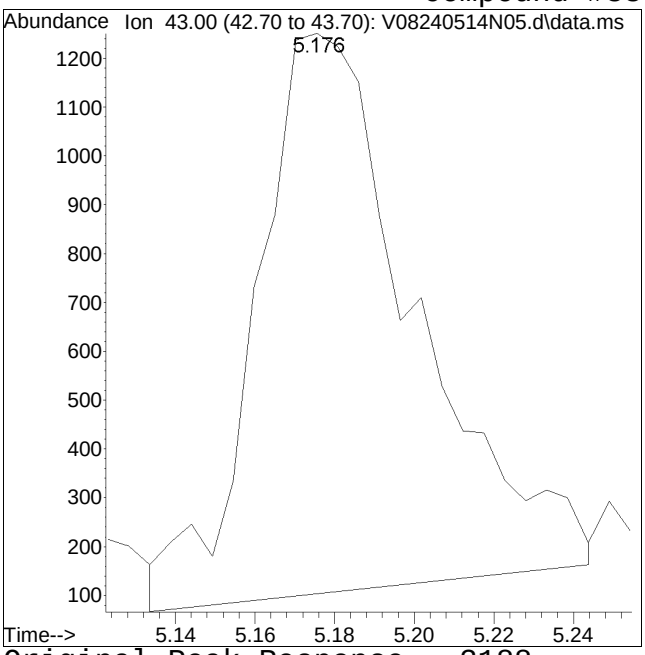


Manual Integration Report

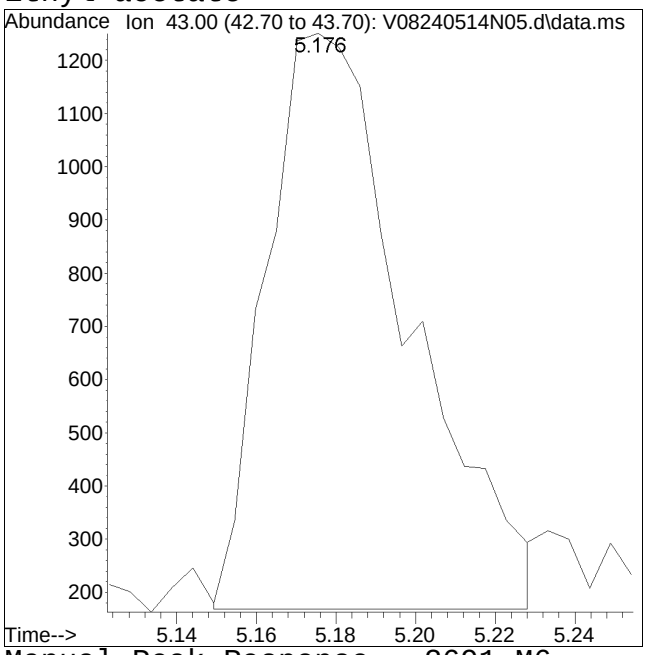
Data Path : K:\VOA108\2024\240514NICALQ
Data File : V08240514N05.d
Date Inj'd : 5/14/2024 8:34 pm
Sample : I8260STD0.5PPB

Method : V108_240514N_8260.m
Operator : VOA108:PID
Instrument : VOA 108
Quant Date : 5/15/2024 9:29 am

Compound #33: Ethyl acetate



Original Peak Response = 3188



Manual Peak Response = 2691 M6

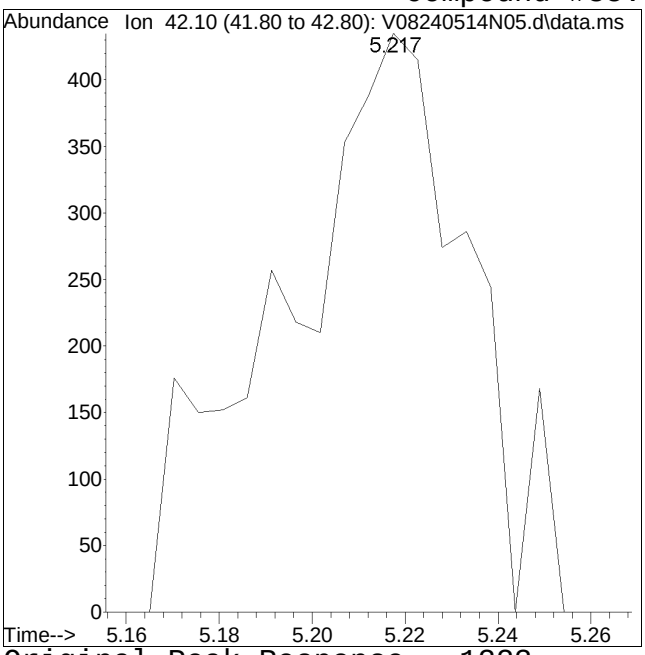
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

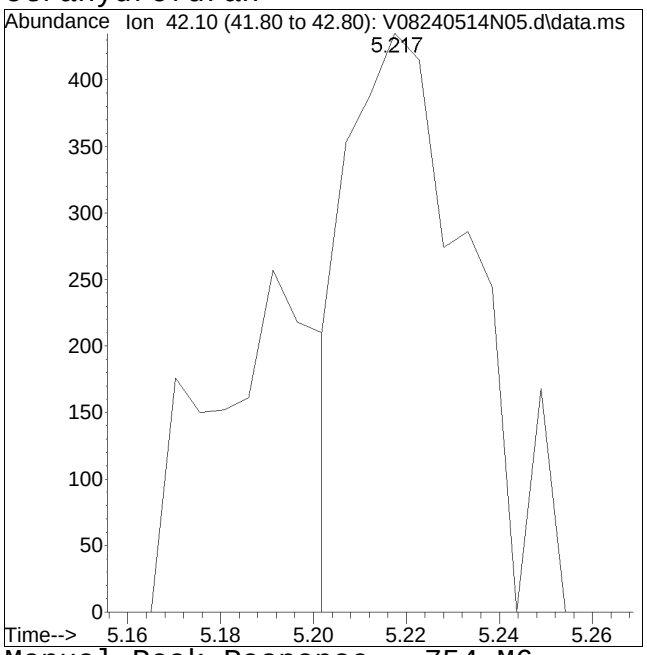
Data Path : K:\VOA108\2024\240514NICALQ
Data File : V08240514N05.d
Date Inj'd : 5/14/2024 8:34 pm
Sample : I8260STD0.5PPB

Method : V108_240514N_8260.m
Operator : VOA108:PID
Instrument : VOA 108
Quant Date : 5/15/2024 9:29 am

Compound #35: Tetrahydrofuran



Original Peak Response = 1223



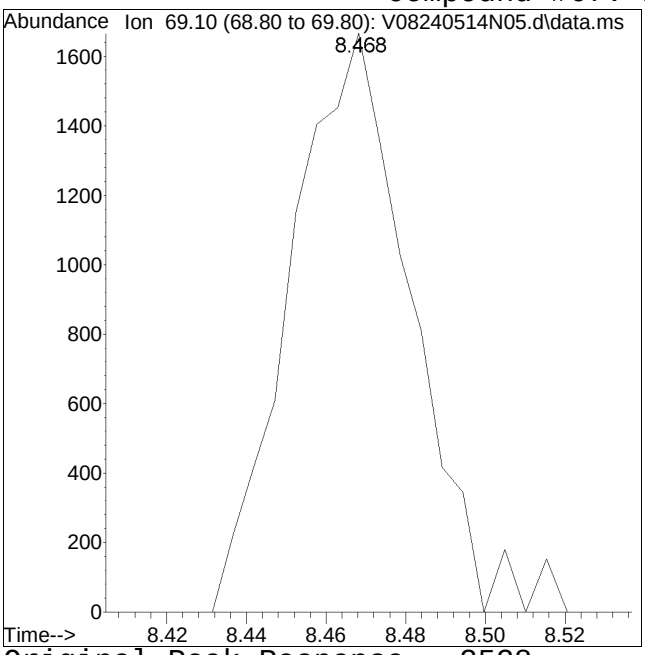
Manual Peak Response = 754 M6

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

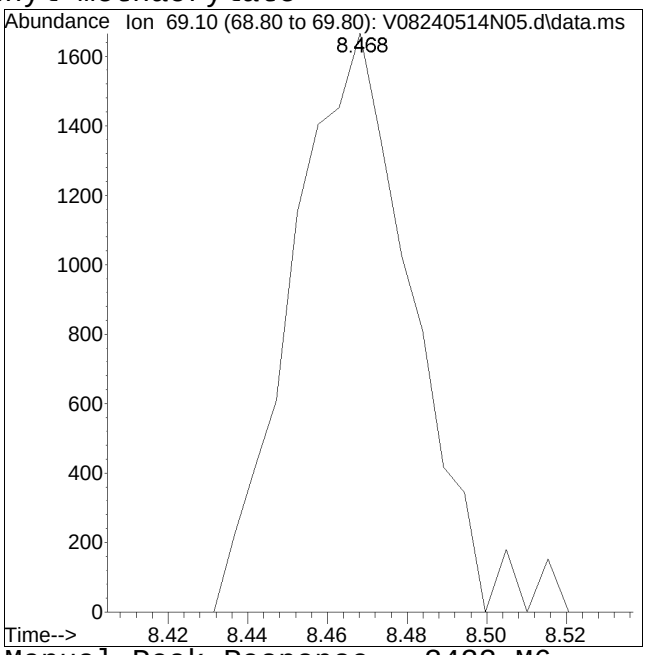
Manual Integration Report

Data Path : K:\VOA108\2024\240514NICALQMethod : V108_240514N_8260.m
Data File : V08240514N05.d Operator : VOA108:PID
Date Inj'd : 5/14/2024 8:34 pm Instrument : VOA 108
Sample : I8260STD0.5PPB Quant Date : 5/15/2024 9:29 am

Compound #67: Ethyl methacrylate



Original Peak Response = 3528



Manual Peak Response = 3423 M6

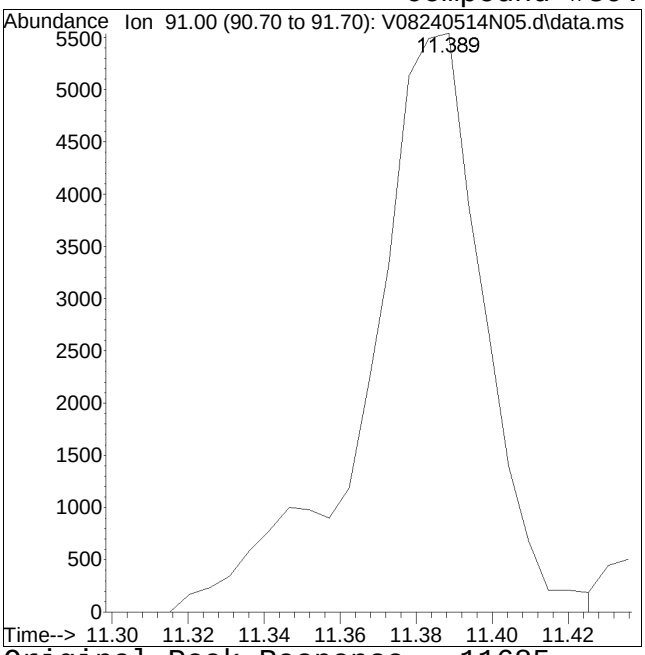
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

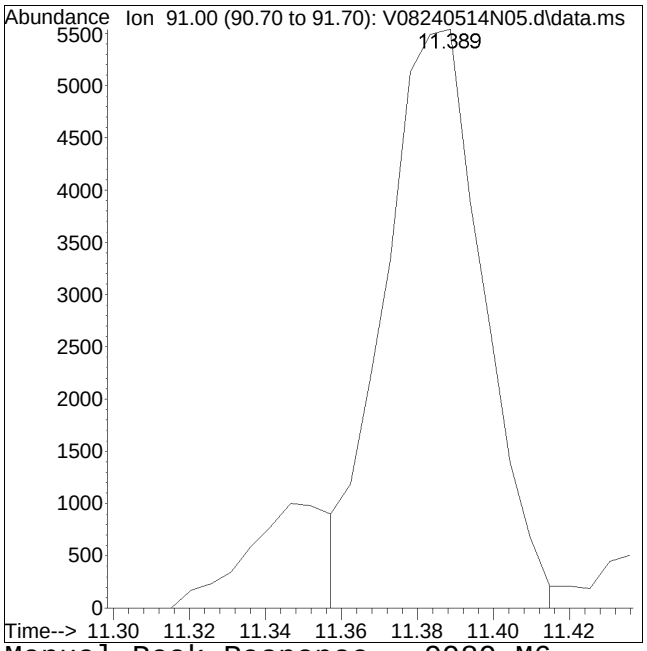
Data Path : K:\VOA108\2024\240514NICALQ
Data File : V08240514N05.d
Date Inj'd : 5/14/2024 8:34 pm
Sample : I8260STD0.5PPB

Method : V108_240514N_8260.m
Operator : VOA108:PID
Instrument : VOA 108
Quant Date : 5/15/2024 9:29 am

Compound #89: 2-Chlorotoluene



Original Peak Response = 11685



Manual Peak Response = 9989 M6

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

Quantitation Report (QT Reviewed)

Data Path : K:\VOA108\2024\240514NICAL\
Data File : V08240514N07.d
Acq On : 14 May 2024 9:18 pm
Operator : VOA108:PID
Sample : I8260STD2PPB
Misc : WG1921348,ICAL
ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 15 09:29:50 2024
Quant Method : K:\VOA108\2024\240514NICAL\V108_240514N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed May 15 09:29:12 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA108\2024\240514NICAL\V08240514N09.d
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Fluorobenzene	6.051	96	338634	10.000	ug/L		0.00
Standard Area 1 = 354232			Recovery = 95.60%				
59) Chlorobenzene-d5	9.574	117	254372	10.000	ug/L		0.00
Standard Area 1 = 261628			Recovery = 97.23%				
79) 1,4-Dichlorobenzene-d4	12.264	152	127755	10.000	ug/L		0.00
Standard Area 1 = 128716			Recovery = 99.25%				
System Monitoring Compounds							
36) Dibromofluoromethane	5.244	113	91672	9.872	ug/L		0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 98.72%				
43) 1,2-Dichloroethane-d4	5.768	65	101566	9.774	ug/L		0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 97.74%				
60) Toluene-d8	7.739	98	329753	9.876	ug/L		0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 98.76%				
83) 4-Bromofluorobenzene	11.058	95	121154	9.959	ug/L		0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 99.59%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.678	85	17389	2.225	ug/L		96
3) Chloromethane	1.872	50	17482	2.176	ug/L		98
4) Vinyl chloride	1.941	62	18574	2.169	ug/L		96
5) Bromomethane	2.255	94	9158	2.120	ug/L		99
6) Chloroethane	2.376	64	10683	2.226	ug/L		87
7) Trichlorofluoromethane	2.517	101	24550	2.191	ug/L		98
8) Ethyl ether	2.811	74	7158	2.140	ug/L	#	79
10) 1,1-Dichloroethene	3.005	96	12301	2.203	ug/L	#	66
11) Carbon disulfide	3.031	76	40734	2.141	ug/L		95
12) Freon-113	3.047	101	12660	2.202	ug/L		98
13) Iodomethane	3.141	142	16186	1.862	ug/L		89
14) Acrolein	3.314	56	2119	1.984	ug/L		91
15) Methylene chloride	3.555	84	14675	1.898	ug/L		78
17) Acetone	3.592	43	3199	1.924	ug/L		93
18) trans-1,2-Dichloroethene	3.707	96	13940	2.203	ug/L		77
19) Methyl acetate	3.718	43	7825	1.999	ug/L	#	89
20) Methyl tert-butyl ether	3.812	73	35453	2.080	ug/L		98
21) tert-Butyl alcohol	3.896	59	4980	10.624	ug/L	#	77
22) Diisopropyl ether	4.169	45	48687	2.060	ug/L		89
23) 1,1-Dichloroethane	4.295	63	26868	2.164	ug/L		99
24) Halothane	4.337	117	10477	2.163	ug/L		98

Data Path : K:\VOA108\2024\240514NICAL\
Data File : V08240514N07.d
Acq On : 14 May 2024 9:18 pm
Operator : VOA108:PID
Sample : I8260STD2PPB
Misc : WG1921348,ICAL
ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 15 09:29:50 2024
Quant Method : K:\VOA108\2024\240514NICAL\V108_240514N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed May 15 09:29:12 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA108\2024\240514NICAL\V08240514N09.d
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
25) Acrylonitrile	4.331	53	3425	2.123	ug/L	#	86
26) Ethyl tert-butyl ether	4.515	59	44042	2.056	ug/L		90
27) Vinyl acetate	4.520	43	29516	1.997	ug/L		100
28) cis-1,2-Dichloroethene	4.803	96	14921	2.104	ug/L	#	75
29) 2,2-Dichloropropane	4.908	77	22843	2.156	ug/L		99
30) Bromochloromethane	4.997	128	7173	2.093	ug/L	#	64
31) Cyclohexane	5.002	56	24115	2.168	ug/L	#	69
32) Chloroform	5.071	83	25595	2.136	ug/L		97
33) Ethyl acetate	5.175	43	12394	2.292	ug/L	#	86
34) Carbon tetrachloride	5.207	117	20949	2.147	ug/L		97
35) Tetrahydrofuran	5.223	42	3408M6	2.297	ug/L		
37) 1,1,1-Trichloroethane	5.270	97	22653	2.162	ug/L	#	92
39) 2-Butanone	5.354	43	4751M3	2.057	ug/L		
40) 1,1-Dichloropropene	5.390	75	18451	2.134	ug/L		95
41) Benzene	5.637	78	54608	2.080	ug/L		92
42) tert-Amyl methyl ether	5.747	73	38079	2.076	ug/L		89
44) 1,2-Dichloroethane	5.836	62	18674	2.119	ug/L		95
47) Methyl cyclohexane	6.219	83	22142	2.126	ug/L	#	76
48) Trichloroethene	6.229	95	14717	2.123	ug/L		95
50) Dibromomethane	6.665	93	8386	2.091	ug/L		98
51) 1,2-Dichloropropane	6.769	63	14701	2.109	ug/L		96
53) 2-Chloroethyl vinyl ether	7.461	63	7791	2.092	ug/L		91
54) Bromodichloromethane	6.838	83	19681	2.054	ug/L	#	98
57) 1,4-Dioxane	7.047	88	16900	426.278	ug/L	#	78
58) cis-1,3-Dichloropropene	7.524	75	22601	2.034	ug/L		98
61) Toluene	7.797	92	34574	2.080	ug/L		95
62) 4-Methyl-2-pentanone	8.227	58	3762	2.061	ug/L	#	67
63) Tetrachloroethene	8.243	166	14495	2.107	ug/L		92
65) trans-1,3-Dichloropropene	8.274	75	19540	1.965	ug/L		96
67) Ethyl methacrylate	8.463	69	14217	2.010	ug/L	#	44
68) 1,1,2-Trichloroethane	8.458	83	9314	2.059	ug/L		94
69) Chlorodibromomethane	8.673	129	13947	1.970	ug/L		98
70) 1,3-Dichloropropane	8.783	76	18985	2.055	ug/L		96
71) 1,2-Dibromoethane	8.945	107	10788	2.040	ug/L		96
72) 2-Hexanone	9.234	43	7763	2.033	ug/L		89
73) Chlorobenzene	9.595	112	38208	2.069	ug/L		99
74) Ethylbenzene	9.637	91	63959	2.028	ug/L		98
75) 1,1,1,2-Tetrachloroethane	9.679	131	14120	2.011	ug/L		96
76) p/m Xylene	9.826	106	50258	4.061	ug/L		95
77) o Xylene	10.366	106	48781	4.022	ug/L		92

Quantitation Report (QT Reviewed)

Data Path : K:\VOA108\2024\240514NICAL\
Data File : V08240514N07.d
Acq On : 14 May 2024 9:18 pm
Operator : VOA108:PID
Sample : I8260STD2PPB
Misc : WG1921348,ICAL
ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 15 09:29:50 2024
Quant Method : K:\VOA108\2024\240514NICAL\V108_240514N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed May 15 09:29:12 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA108\2024\240514NICAL\V08240514N09.d
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
78) Styrene	10.429	104	80950	3.970	ug/L		91
80) Bromoform	10.450	173	7839	1.842	ug/L		97
82) Isopropylbenzene	10.744	105	63424	2.003	ug/L		96
84) Bromobenzene	11.174	156	15913	1.994	ug/L		97
85) n-Propylbenzene	11.221	91	74769	1.998	ug/L		96
86) 1,4-Dichlorobutane	11.231	55	18253	1.962	ug/L		94
87) 1,1,2,2-Tetrachloroethane	11.299	83	12266	1.919	ug/L		97
88) 4-Ethyltoluene	11.347	105	60567	1.971	ug/L		96
89) 2-Chlorotoluene	11.383	91	44415M6	1.996	ug/L		
90) 1,3,5-Trimethylbenzene	11.446	105	53447	1.961	ug/L		91
91) 1,2,3-Trichloropropane	11.441	75	10809	2.023	ug/L		96
92) trans-1,4-Dichloro-2-b...	11.493	53	3795	1.920	ug/L	#	78
93) 4-Chlorotoluene	11.567	91	45705	1.977	ug/L		93
94) tert-Butylbenzene	11.787	119	47334	2.038	ug/L		96
97) 1,2,4-Trimethylbenzene	11.860	105	52212	1.945	ug/L		92
98) sec-Butylbenzene	11.976	105	67788	2.012	ug/L		96
99) p-Isopropyltoluene	12.128	119	58325	1.968	ug/L		96
100) 1,3-Dichlorobenzene	12.191	146	30556	1.987	ug/L		99
101) 1,4-Dichlorobenzene	12.280	146	30860	1.992	ug/L		96
102) p-Diethylbenzene	12.500	119	33495	1.919	ug/L		94
103) n-Butylbenzene	12.558	91	51004	1.985	ug/L		98
104) 1,2-Dichlorobenzene	12.704	146	29014	2.002	ug/L		96
105) 1,2,4,5-Tetramethylben...	13.292	119	54531	1.919	ug/L		98
106) 1,2-Dibromo-3-chloropr...	13.480	155	2031	2.079	ug/L		96
107) 1,3,5-Trichlorobenzene	13.512	180	22882	1.970	ug/L		93
108) Hexachlorobutadiene	14.089	225	10363	2.070	ug/L		95
109) 1,2,4-Trichlorobenzene	14.110	180	20480	1.961	ug/L		97
110) Naphthalene	14.398	128	40923	1.970	ug/L		100
111) 1,2,3-Trichlorobenzene	14.566	180	18737	1.993	ug/L		99

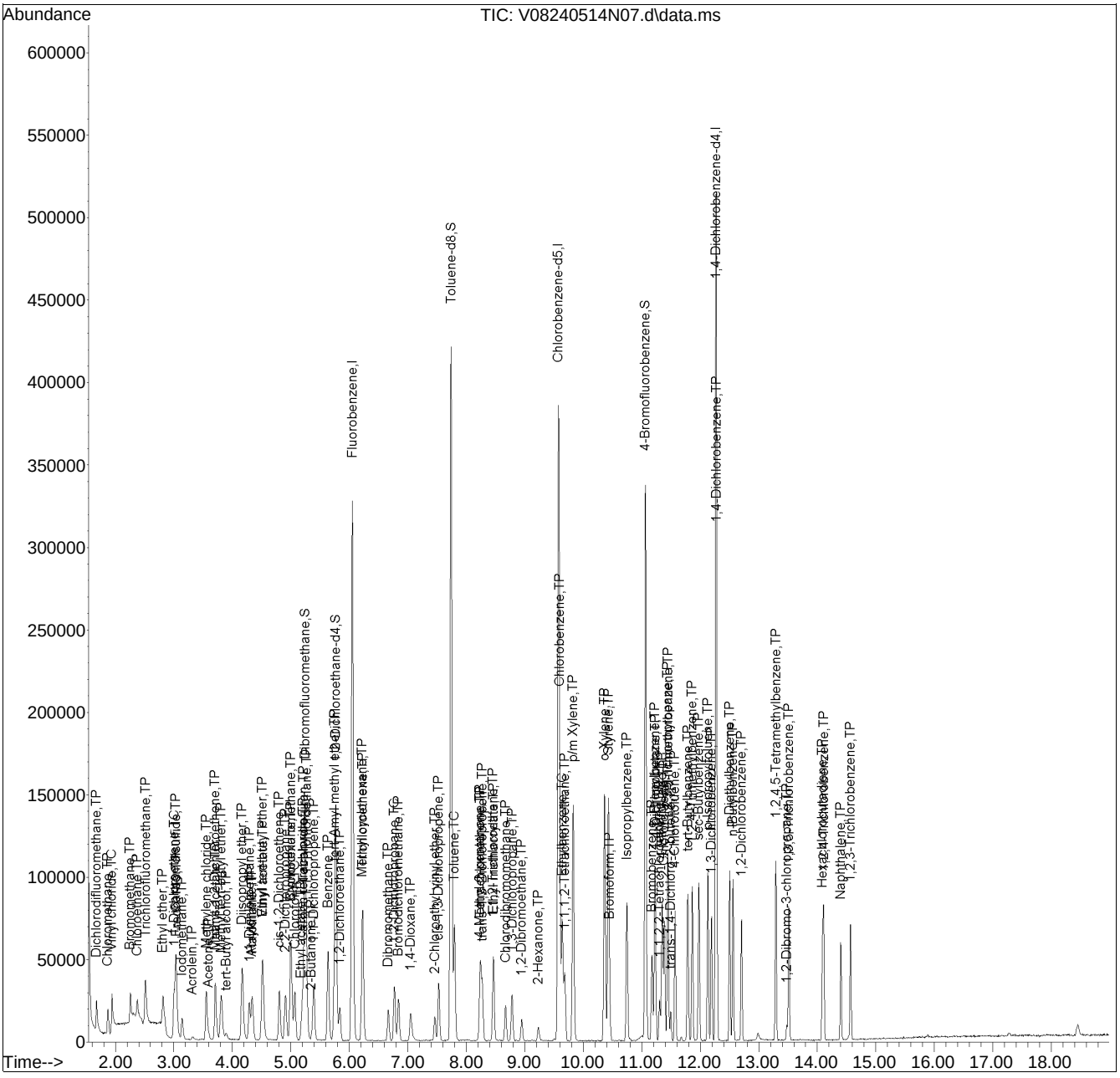
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : K:\VOA108\2024\240514NICAL\
Data File : V08240514N07.d
Acq On : 14 May 2024 9:18 pm
Operator : VOA108:PID
Sample : I8260STD2PPB
Misc : WG1921348,ICAL
ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 15 09:29:50 2024
Quant Method : K:\VOA108\2024\240514NICAL\V108_240514N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed May 15 09:29:12 2024
Response via : Initial Calibration

Sub List : 8260-Curve - Megamix plus Diox\V08240514N09.d•

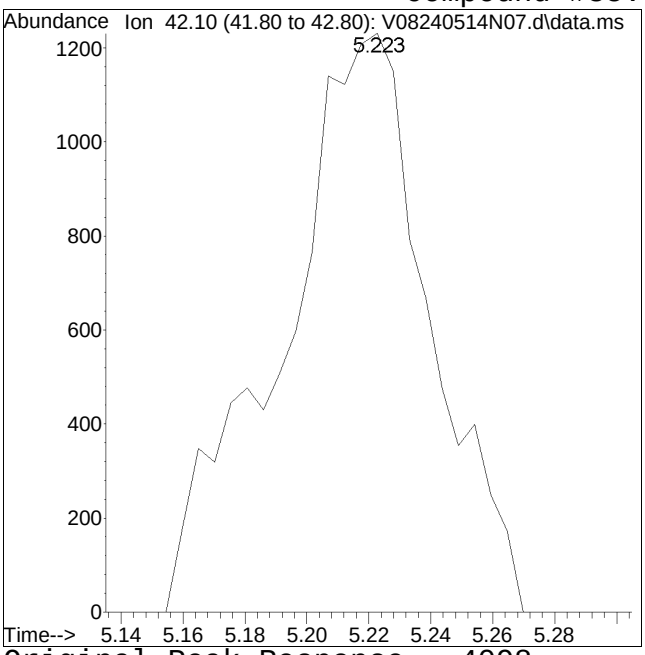


Manual Integration Report

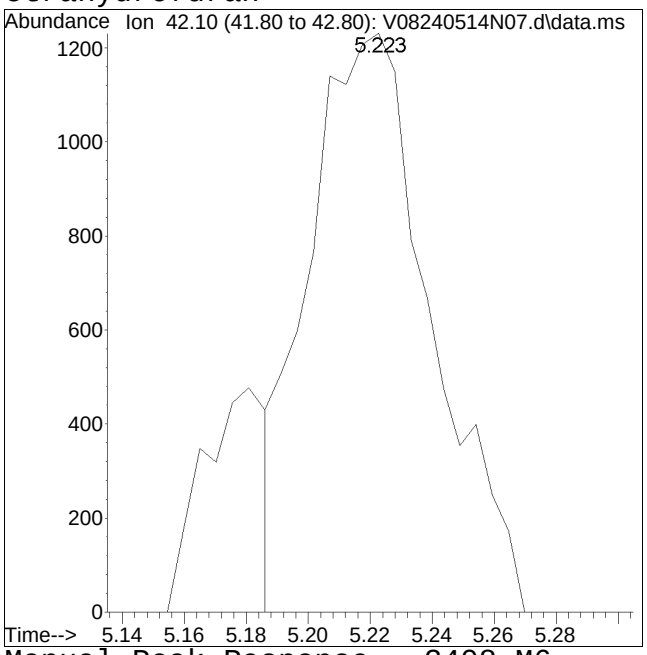
Data Path : K:\VOA108\2024\240514NICALQ
Data File : V08240514N07.d
Date Inj'd : 5/14/2024 9:18 pm
Sample : I8260STD2PPB

Method : V108_240514N_8260.m
Operator : VOA108:PID
Instrument : VOA 108
Quant Date : 5/15/2024 9:29 am

Compound #35: Tetrahydrofuran



Original Peak Response = 4098



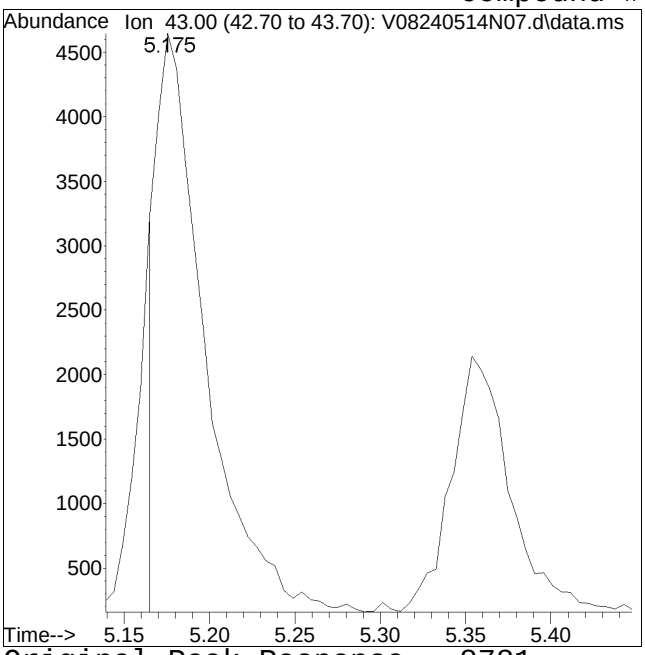
Manual Peak Response = 3408 M6

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

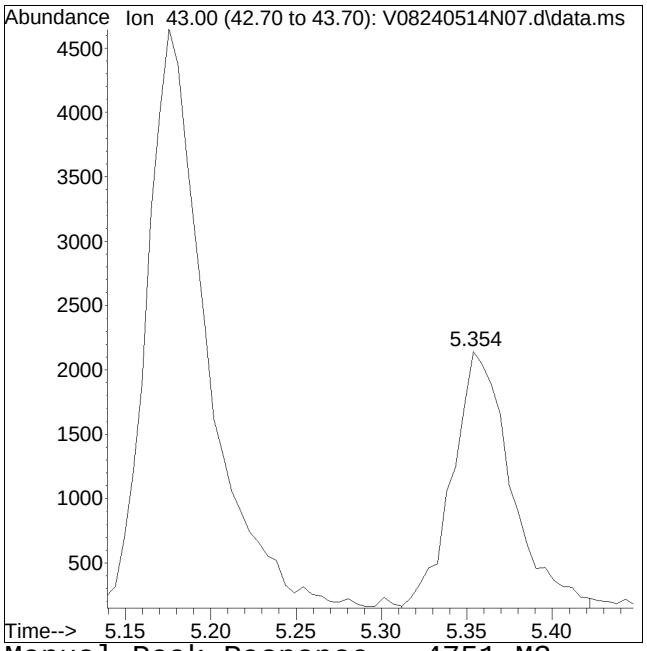
Manual Integration Report

Data Path : K:\VOA108\2024\240514NICALQMethod : V108_240514N_8260.m
Data File : V08240514N07.d Operator : VOA108:PID
Date Inj'd : 5/14/2024 9:18 pm Instrument : VOA 108
Sample : I8260STD2PPB Quant Date : 5/15/2024 9:29 am

Compound #39: 2-Butanone



Original Peak Response = 8781



Manual Peak Response = 4751 M3

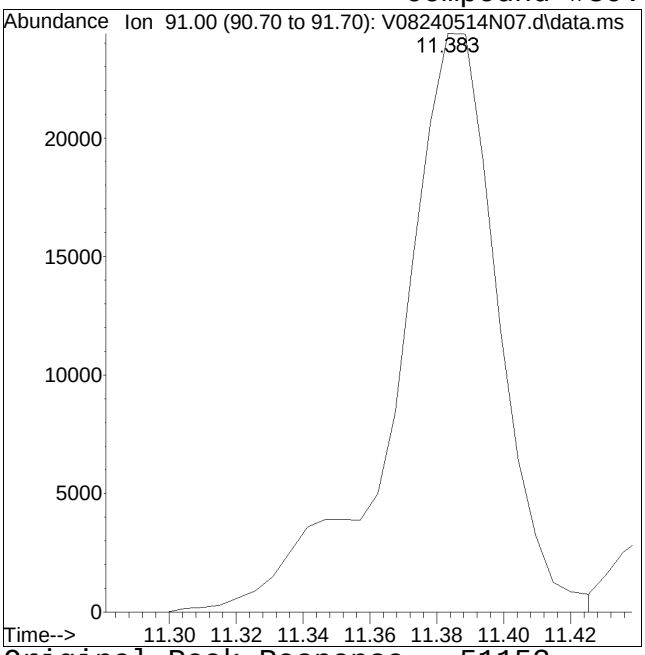
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

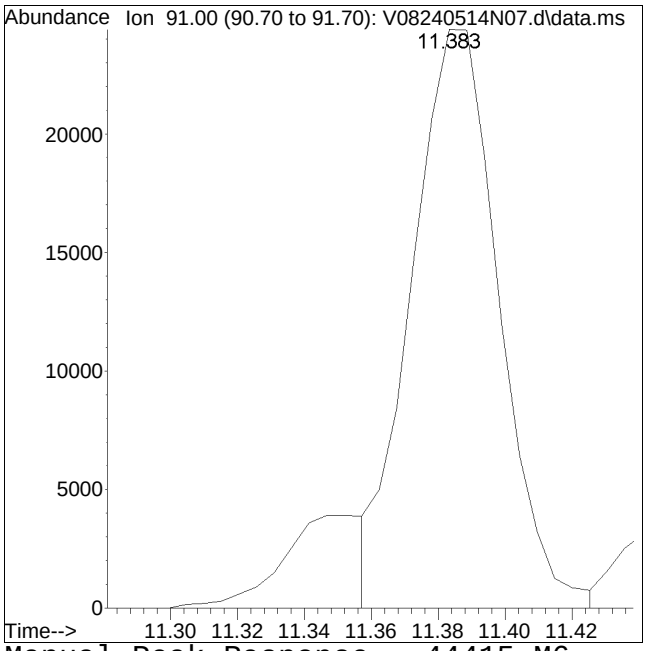
Data Path : K:\VOA108\2024\240514NICALQ
Data File : V08240514N07.d
Date Inj'd : 5/14/2024 9:18 pm
Sample : I8260STD2PPB

Method : V108_240514N_8260.m
Operator : VOA108:PID
Instrument : VOA 108
Quant Date : 5/15/2024 9:29 am

Compound #89: 2-Chlorotoluene



Original Peak Response = 51153



Manual Peak Response = 44415 M6

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

Quantitation Report (QT Reviewed)

Data Path : K:\VOA108\2024\240514NICAL\
Data File : V08240514N09.d
Acq On : 14 May 2024 10:03 pm
Operator : VOA108:PID
Sample : I8260STD10PPB
Misc : WG1921348,ICAL
ALS Vial : 9 Sample Multiplier: 1

Quant Time: May 15 09:29:56 2024
Quant Method : K:\VOA108\2024\240514NICAL\V108_240514N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed May 15 09:29:12 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA108\2024\240514NICAL\V08240514N09.d
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	6.051	96	354232	10.000	ug/L	0.00
Standard Area 1 = 354232			Recovery = 100.00%			
59) Chlorobenzene-d5	9.574	117	261628	10.000	ug/L	0.00
Standard Area 1 = 261628			Recovery = 100.00%			
79) 1,4-Dichlorobenzene-d4	12.269	152	128716	10.000	ug/L	0.00
Standard Area 1 = 128716			Recovery = 100.00%			
System Monitoring Compounds						
36) Dibromofluoromethane	5.244	113	98906	10.183	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 101.83%			
43) 1,2-Dichloroethane-d4	5.768	65	108264	9.959	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 99.59%			
60) Toluene-d8	7.739	98	344332	10.027	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 100.27%			
83) 4-Bromofluorobenzene	11.063	95	123221	10.054	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 100.54%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.678	85	81517	9.970	ug/L	99
3) Chloromethane	1.872	50	84525	10.057	ug/L	100
4) Vinyl chloride	1.941	62	90888	10.145	ug/L	96
5) Bromomethane	2.255	94	43424	9.612	ug/L	99
6) Chloroethane	2.370	64	51242	10.206	ug/L	95
7) Trichlorofluoromethane	2.512	101	118892	10.145	ug/L	96
8) Ethyl ether	2.816	74	34330	9.810	ug/L	83
10) 1,1-Dichloroethene	3.005	96	58864	10.076	ug/L #	68
11) Carbon disulfide	3.031	76	199117	10.007	ug/L	96
12) Freon-113	3.042	101	59487	9.893	ug/L	98
13) Iodomethane	3.141	142	88852	9.773	ug/L	87
14) Acrolein	3.319	56	9395	8.407	ug/L	99
15) Methylene chloride	3.555	84	69784	8.626	ug/L	76
17) Acetone	3.597	43	14119	8.117	ug/L	94
18) trans-1,2-Dichloroethene	3.707	96	66652	10.069	ug/L	80
19) Methyl acetate	3.713	43	36873	9.005	ug/L #	87
20) Methyl tert-butyl ether	3.812	73	175469	9.841	ug/L	97
21) tert-Butyl alcohol	3.896	59	24414	49.791	ug/L #	70
22) Diisopropyl ether	4.169	45	242954	9.826	ug/L	92
23) 1,1-Dichloroethane	4.289	63	130625	10.059	ug/L	99
24) Halothane	4.342	117	50653	9.998	ug/L	98

Data Path : K:\VOA108\2024\240514NICAL\
Data File : V08240514N09.d
Acq On : 14 May 2024 10:03 pm
Operator : VOA108:PID
Sample : I8260STD10PPB
Misc : WG1921348,ICAL
ALS Vial : 9 Sample Multiplier: 1

Quant Time: May 15 09:29:56 2024
Quant Method : K:\VOA108\2024\240514NICAL\V108_240514N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed May 15 09:29:12 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA108\2024\240514NICAL\V08240514N09.d
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
25) Acrylonitrile	4.331	53	16215	9.608	ug/L	#	86
26) Ethyl tert-butyl ether	4.515	59	220657	9.846	ug/L		93
27) Vinyl acetate	4.520	43	120511	7.795	ug/L		98
28) cis-1,2-Dichloroethene	4.803	96	74709	10.072	ug/L	#	73
29) 2,2-Dichloropropane	4.908	77	106433	9.605	ug/L		99
30) Bromochloromethane	4.997	128	36465	10.171	ug/L	#	62
31) Cyclohexane	5.002	56	113294	9.736	ug/L	#	66
32) Chloroform	5.065	83	125962	10.047	ug/L		98
33) Ethyl acetate	5.175	43	55546	9.821	ug/L	#	91
34) Carbon tetrachloride	5.207	117	104117	10.203	ug/L		99
35) Tetrahydrofuran	5.217	42	15177M6	9.779	ug/L		
37) 1,1,1-Trichloroethane	5.270	97	110241	10.059	ug/L	#	93
39) 2-Butanone	5.354	43	25237M3	10.447	ug/L		
40) 1,1-Dichloropropene	5.390	75	91222	10.088	ug/L		95
41) Benzene	5.637	78	270756	9.857	ug/L		92
42) tert-Amyl methyl ether	5.747	73	189482	9.874	ug/L		88
44) 1,2-Dichloroethane	5.836	62	91497	9.927	ug/L		97
47) Methyl cyclohexane	6.224	83	106220	9.748	ug/L	#	73
48) Trichloroethene	6.229	95	74586	10.286	ug/L		94
50) Dibromomethane	6.665	93	41242	9.830	ug/L		97
51) 1,2-Dichloropropane	6.769	63	73178	10.036	ug/L		95
53) 2-Chloroethyl vinyl ether	7.461	63	38209	9.806	ug/L		98
54) Bromodichloromethane	6.838	83	97762	9.754	ug/L		99
57) 1,4-Dioxane	7.047	88	20716	499.522	ug/L	#	78
58) cis-1,3-Dichloropropene	7.524	75	114371	9.839	ug/L		95
61) Toluene	7.797	92	169204	9.896	ug/L		96
62) 4-Methyl-2-pentanone	8.222	58	18543	9.879	ug/L	#	79
63) Tetrachloroethene	8.243	166	71450	10.096	ug/L		91
65) trans-1,3-Dichloropropene	8.274	75	99042	9.682	ug/L		93
67) Ethyl methacrylate	8.463	69	71612	9.845	ug/L	#	46
68) 1,1,2-Trichloroethane	8.458	83	45375	9.752	ug/L		93
69) Chlorodibromomethane	8.673	129	71601	9.831	ug/L		98
70) 1,3-Dichloropropane	8.777	76	95250	10.025	ug/L		98
71) 1,2-Dibromoethane	8.945	107	54884	10.088	ug/L		98
72) 2-Hexanone	9.228	43	36133	9.199	ug/L		96
73) Chlorobenzene	9.595	112	189949	10.001	ug/L		96
74) Ethylbenzene	9.637	91	324352	10.001	ug/L		97
75) 1,1,1,2-Tetrachloroethane	9.679	131	72350	10.016	ug/L		95
76) p/m Xylene	9.826	106	250701	19.694	ug/L		96
77) o Xylene	10.361	106	247558	19.844	ug/L		90

Quantitation Report (QT Reviewed)

Data Path : K:\VOA108\2024\240514NICAL\
Data File : V08240514N09.d
Acq On : 14 May 2024 10:03 pm
Operator : VOA108:PID
Sample : I8260STD10PPB
Misc : WG1921348,ICAL
ALS Vial : 9 Sample Multiplier: 1

Quant Time: May 15 09:29:56 2024
Quant Method : K:\VOA108\2024\240514NICAL\V108_240514N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed May 15 09:29:12 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA108\2024\240514NICAL\V08240514N09.d
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
78) Styrene	10.429	104	415368	19.807	ug/L		91
80) Bromoform	10.450	173	41483	9.677	ug/L		96
82) Isopropylbenzene	10.744	105	317782	9.959	ug/L		95
84) Bromobenzene	11.174	156	79052	9.834	ug/L		98
85) n-Propylbenzene	11.221	91	372892	9.891	ug/L		95
86) 1,4-Dichlorobutane	11.231	55	89254	9.520	ug/L		94
87) 1,1,2,2-Tetrachloroethane	11.299	83	60827	9.444	ug/L		99
88) 4-Ethyltoluene	11.347	105	308338	9.958	ug/L		95
89) 2-Chlorotoluene	11.383	91	221642M6	9.885	ug/L		
90) 1,3,5-Trimethylbenzene	11.446	105	271224	9.879	ug/L		91
91) 1,2,3-Trichloropropane	11.441	75	52532	9.756	ug/L		98
92) trans-1,4-Dichloro-2-b...	11.493	53	19178	9.631	ug/L	#	77
93) 4-Chlorotoluene	11.567	91	231050	9.919	ug/L		93
94) tert-Butylbenzene	11.787	119	232672	9.941	ug/L		96
97) 1,2,4-Trimethylbenzene	11.860	105	267033	9.871	ug/L		92
98) sec-Butylbenzene	11.976	105	338403	9.970	ug/L		96
99) p-Isopropyltoluene	12.128	119	296059	9.915	ug/L		95
100) 1,3-Dichlorobenzene	12.191	146	151920	9.807	ug/L		98
101) 1,4-Dichlorobenzene	12.280	146	152736	9.786	ug/L		99
102) p-Diethylbenzene	12.500	119	171819	9.773	ug/L		94
103) n-Butylbenzene	12.558	91	254488	9.831	ug/L		97
104) 1,2-Dichlorobenzene	12.704	146	143401	9.820	ug/L		98
105) 1,2,4,5-Tetramethylben...	13.292	119	281121	9.819	ug/L		97
106) 1,2-Dibromo-3-chloropr...	13.480	155	10191	10.353	ug/L		92
107) 1,3,5-Trichlorobenzene	13.512	180	113468	9.697	ug/L		95
108) Hexachlorobutadiene	14.089	225	50186	9.950	ug/L		96
109) 1,2,4-Trichlorobenzene	14.110	180	102802	9.770	ug/L		98
110) Naphthalene	14.398	128	206006	9.844	ug/L		100
111) 1,2,3-Trichlorobenzene	14.566	180	93746	9.898	ug/L		99

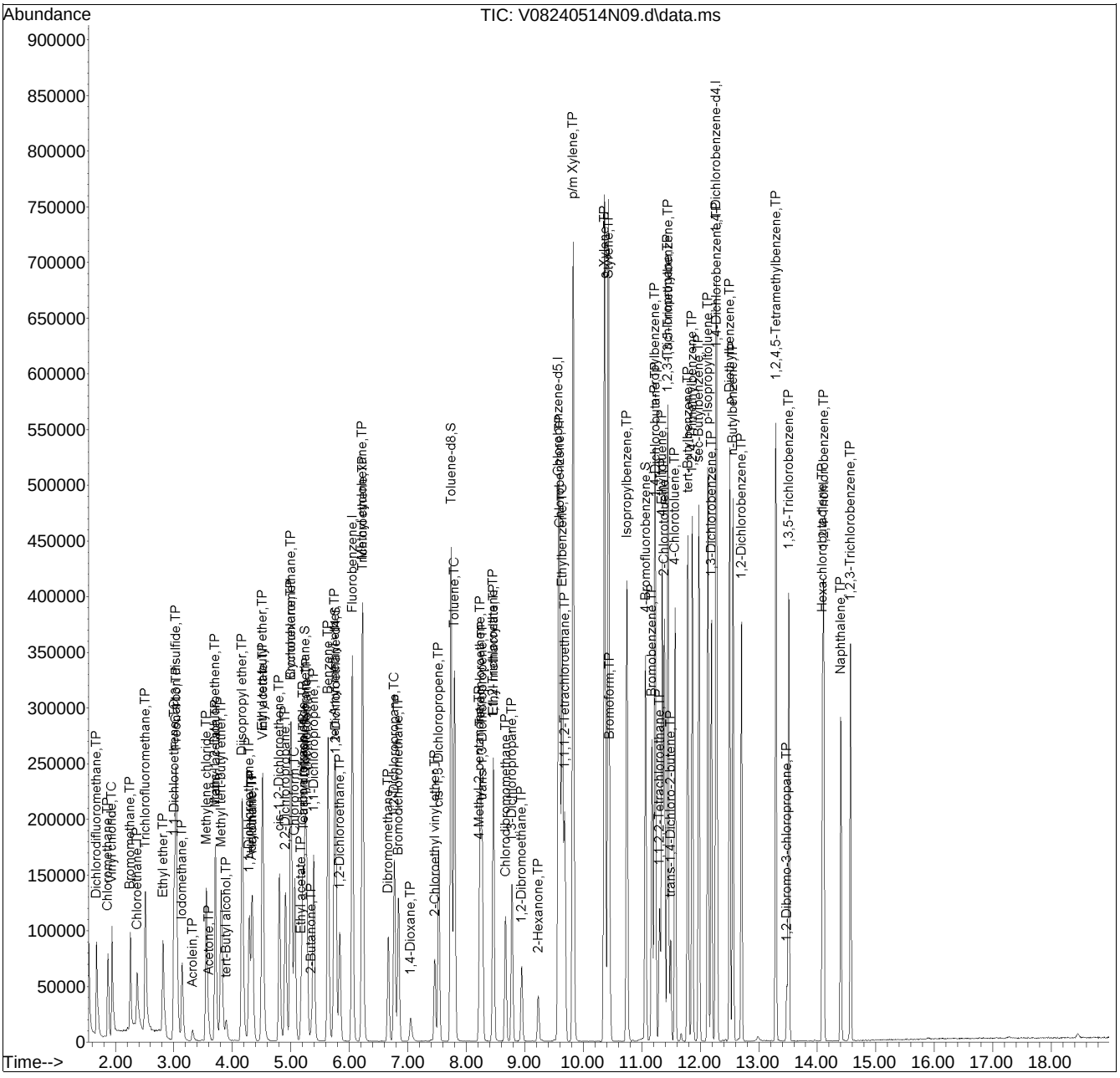
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : K:\VOA108\2024\240514NICAL\
Data File : V08240514N09.d
Acq On : 14 May 2024 10:03 pm
Operator : VOA108:PID
Sample : I8260STD10PPB
Misc : WG1921348,ICAL
ALS Vial : 9 Sample Multiplier: 1

Quant Time: May 15 09:29:56 2024
Quant Method : K:\VOA108\2024\240514NICAL\V108_240514N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed May 15 09:29:12 2024
Response via : Initial Calibration

Sub List : 8260-Curve - Megamix plus Diox\V08240514N09.d•

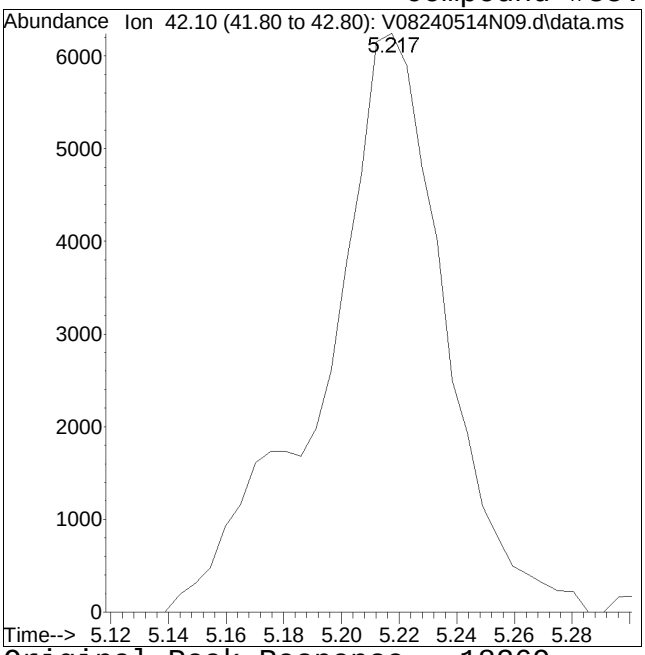


Manual Integration Report

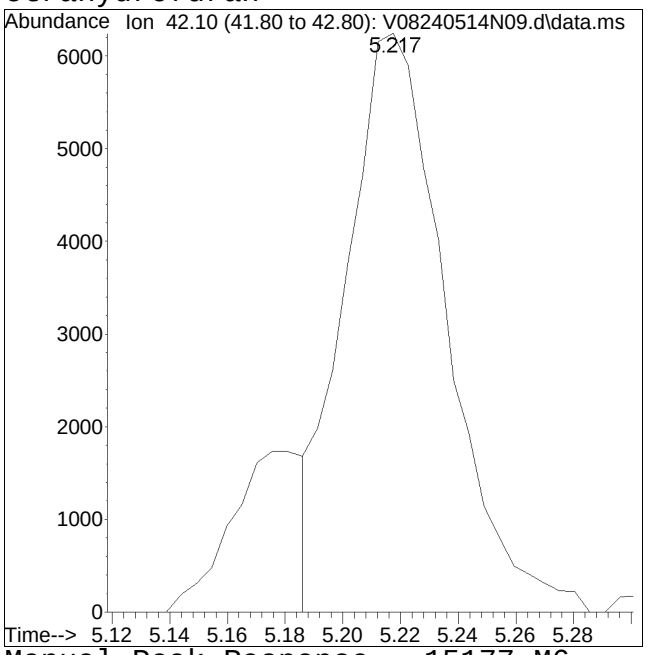
Data Path : K:\VOA108\2024\240514NICALQ
Data File : V08240514N09.d
Date Inj'd : 5/14/2024 10:03 pm
Sample : I8260STD10PPB

Method : V108_240514N_8260.m
Operator : VOA108:PID
Instrument : VOA 108
Quant Date : 5/15/2024 9:29 am

Compound #35: Tetrahydrofuran



Original Peak Response = 18269



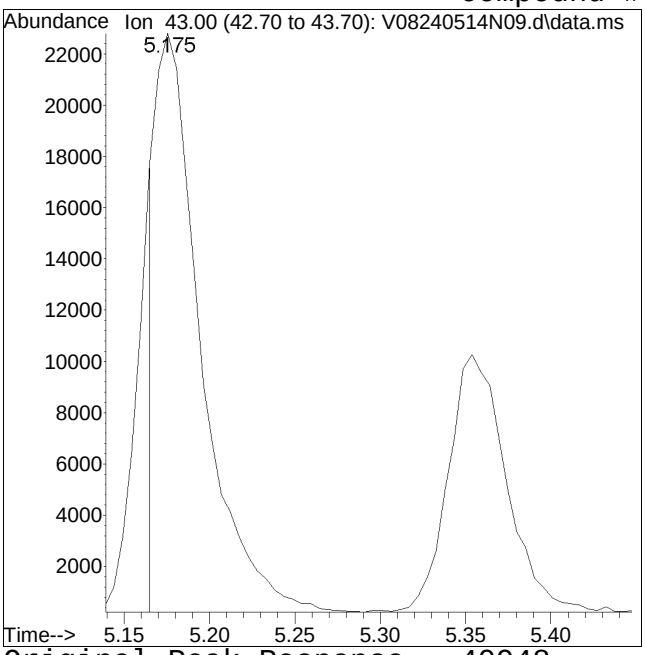
Manual Peak Response = 15177 M6

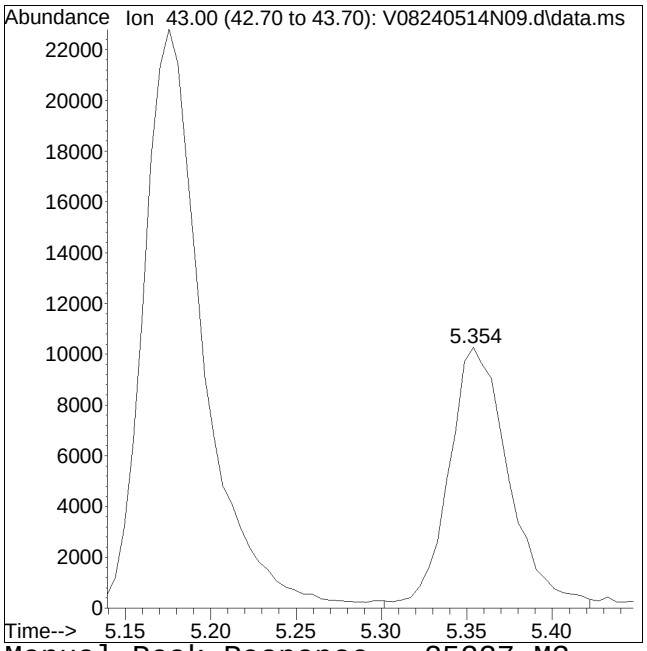
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

Data Path : K:\VOA108\2024\240514NICALQMethod : V108_240514N_8260.m
Data File : V08240514N09.d Operator : VOA108:PID
Date Inj'd : 5/14/2024 10:03 pm Instrument : VOA 108
Sample : I8260STD10PPB Quant Date : 5/15/2024 9:29 am

Compound #39: 2-Butanone





Original Peak Response = 40948 Manual Peak Response = 25237 M3

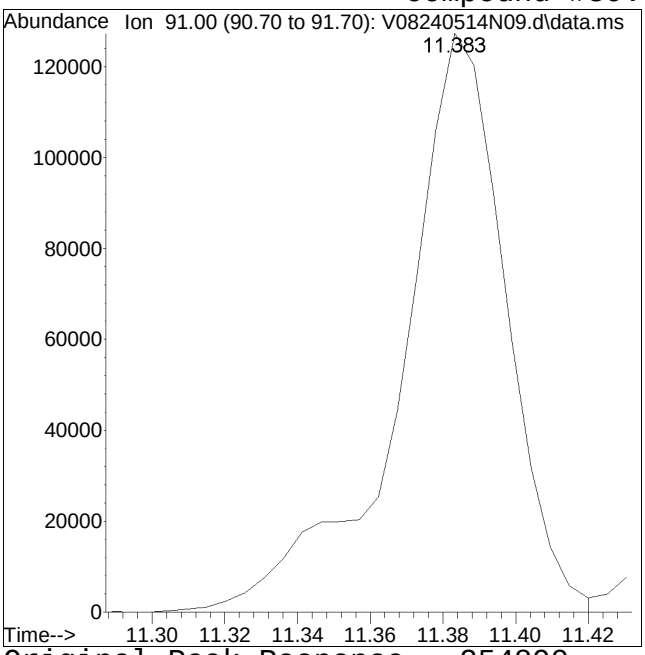
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

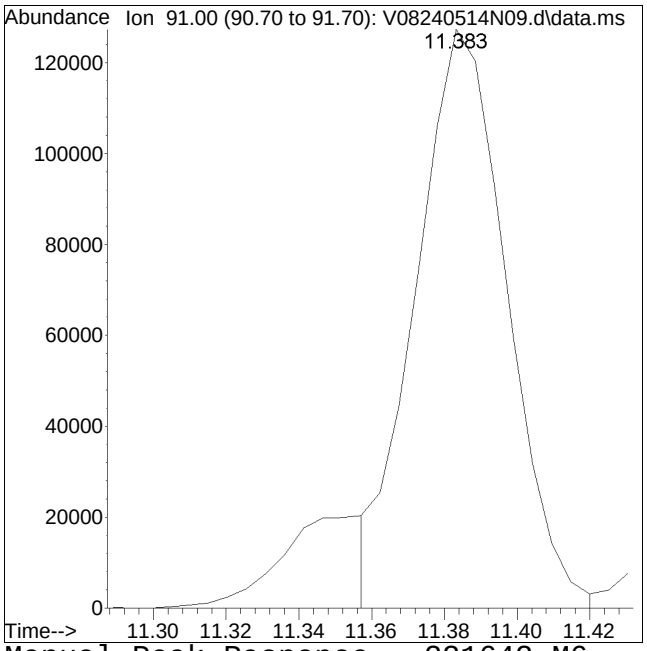
Data Path : K:\VOA108\2024\240514NICALQ
Data File : V08240514N09.d
Date Inj'd : 5/14/2024 10:03 pm
Sample : I8260STD10PPB

Method : V108_240514N_8260.m
Operator : VOA108:PID
Instrument : VOA 108
Quant Date : 5/15/2024 9:29 am

Compound #89: 2-Chlorotoluene



Original Peak Response = 254890



Manual Peak Response = 221642 M6

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

Quantitation Report (QT Reviewed)

Data Path : K:\VOA108\2024\240514NICAL\
Data File : V08240514N10.d
Acq On : 14 May 2024 10:26 pm
Operator : VOA108:PID
Sample : I8260STD30PPB
Misc : WG1921348,ICAL
ALS Vial : 10 Sample Multiplier: 1

Quant Time: May 15 09:30:03 2024
Quant Method : K:\VOA108\2024\240514NICAL\V108_240514N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed May 15 09:29:12 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA108\2024\240514NICAL\V08240514N09.d
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	6.051	96	359039	10.000	ug/L	0.00
Standard Area 1 = 354232			Recovery = 101.36%			
59) Chlorobenzene-d5	9.574	117	262832	10.000	ug/L	0.00
Standard Area 1 = 261628			Recovery = 100.46%			
79) 1,4-Dichlorobenzene-d4	12.269	152	129458	10.000	ug/L	0.00
Standard Area 1 = 128716			Recovery = 100.58%			
System Monitoring Compounds						
36) Dibromofluoromethane	5.244	113	98625	10.018	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 100.18%			
43) 1,2-Dichloroethane-d4	5.768	65	110405	10.020	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 100.20%			
60) Toluene-d8	7.739	98	349115	10.119	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 101.19%			
83) 4-Bromofluorobenzene	11.063	95	124051	10.063	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 100.63%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.678	85	245192	29.588	ug/L	99
3) Chloromethane	1.872	50	251711	29.547	ug/L	100
4) Vinyl chloride	1.940	62	272722	30.035	ug/L	95
5) Bromomethane	2.255	94	133840	29.228	ug/L	97
6) Chloroethane	2.370	64	152860	30.039	ug/L	96
7) Trichlorofluoromethane	2.512	101	357737	30.117	ug/L	97
8) Ethyl ether	2.816	74	103887	29.289	ug/L	81
10) 1,1-Dichloroethene	3.000	96	175695	29.673	ug/L #	69
11) Carbon disulfide	3.031	76	599984	29.748	ug/L	96
12) Freon-113	3.041	101	183283	30.074	ug/L	99
13) Iodomethane	3.141	142	287327	31.180	ug/L	88
14) Acrolein	3.319	56	29837	26.342	ug/L	98
15) Methylene chloride	3.555	84	206575	25.193	ug/L	76
17) Acetone	3.592	43	40799	23.143	ug/L	96
18) trans-1,2-Dichloroethene	3.707	96	200637	29.904	ug/L	80
19) Methyl acetate	3.713	43	111269	26.810	ug/L #	86
20) Methyl tert-butyl ether	3.807	73	535253	29.616	ug/L	96
21) tert-Butyl alcohol	3.896	59	74262	149.424	ug/L #	71
22) Diisopropyl ether	4.169	45	733257	29.259	ug/L	92
23) 1,1-Dichloroethane	4.289	63	393341	29.883	ug/L	99
24) Halothane	4.342	117	154907	30.167	ug/L	100

Data Path : K:\VOA108\2024\240514NICAL\
Data File : V08240514N10.d
Acq On : 14 May 2024 10:26 pm
Operator : VOA108:PID
Sample : I8260STD30PPB
Misc : WG1921348,ICAL
ALS Vial : 10 Sample Multiplier: 1

Quant Time: May 15 09:30:03 2024
Quant Method : K:\VOA108\2024\240514NICAL\V108_240514N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed May 15 09:29:12 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA108\2024\240514NICAL\V08240514N09.d
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
25) Acrylonitrile	4.331	53	50316	29.415	ug/L	#	87
26) Ethyl tert-butyl ether	4.515	59	670899	29.535	ug/L		87
27) Vinyl acetate	4.520	43	485033	30.954	ug/L	#	96
28) cis-1,2-Dichloroethene	4.803	96	223595	29.739	ug/L	#	74
29) 2,2-Dichloropropane	4.908	77	341004	30.362	ug/L		99
30) Bromochloromethane	4.997	128	109259	30.068	ug/L	#	61
31) Cyclohexane	5.002	56	343176	29.096	ug/L	#	65
32) Chloroform	5.065	83	376640	29.641	ug/L		97
33) Ethyl acetate	5.175	43	167070	29.145	ug/L	#	92
34) Carbon tetrachloride	5.207	117	312274	30.192	ug/L		99
35) Tetrahydrofuran	5.217	42	45267M6	28.777	ug/L		
37) 1,1,1-Trichloroethane	5.270	97	333134	29.989	ug/L	#	93
39) 2-Butanone	5.354	43	73684M3	30.092	ug/L		
40) 1,1-Dichloropropene	5.390	75	276476	30.166	ug/L		95
41) Benzene	5.637	78	825933	29.667	ug/L		91
42) tert-Amyl methyl ether	5.747	73	572586	29.439	ug/L		88
44) 1,2-Dichloroethane	5.836	62	274789	29.413	ug/L		97
47) Methyl cyclohexane	6.224	83	327138	29.620	ug/L	#	74
48) Trichloroethene	6.229	95	213323	29.026	ug/L		95
50) Dibromomethane	6.664	93	127777	30.048	ug/L		97
51) 1,2-Dichloropropane	6.769	63	221777	30.008	ug/L		95
53) 2-Chloroethyl vinyl ether	7.461	63	118433	29.988	ug/L		96
54) Bromodichloromethane	6.837	83	302283	29.755	ug/L		99
57) 1,4-Dioxane	7.047	88	24941	593.347	ug/L	#	76
58) cis-1,3-Dichloropropene	7.530	75	350949	29.787	ug/L		95
61) Toluene	7.797	92	511998	29.808	ug/L		95
62) 4-Methyl-2-pentanone	8.227	58	58265	30.899	ug/L	#	81
63) Tetrachloroethene	8.243	166	213293	29.999	ug/L		92
65) trans-1,3-Dichloropropene	8.274	75	312232	30.382	ug/L		93
67) Ethyl methacrylate	8.463	69	219473	30.034	ug/L	#	46
68) 1,1,2-Trichloroethane	8.458	83	138352	29.597	ug/L		93
69) Chlorodibromomethane	8.667	129	223423	30.537	ug/L		98
70) 1,3-Dichloropropane	8.783	76	289780	30.360	ug/L		99
71) 1,2-Dibromoethane	8.945	107	165893	30.354	ug/L		97
72) 2-Hexanone	9.228	43	111473	28.250	ug/L		96
73) Chlorobenzene	9.595	112	575831	30.179	ug/L		96
74) Ethylbenzene	9.637	91	985410	30.243	ug/L		98
75) 1,1,1,2-Tetrachloroethane	9.684	131	219698	30.276	ug/L		95
76) p/m Xylene	9.826	106	773519	60.485	ug/L		95
77) o Xylene	10.361	106	753314	60.108	ug/L		91

Quantitation Report (QT Reviewed)

Data Path : K:\VOA108\2024\240514NICAL\
Data File : V08240514N10.d
Acq On : 14 May 2024 10:26 pm
Operator : VOA108:PID
Sample : I8260STD30PPB
Misc : WG1921348,ICAL
ALS Vial : 10 Sample Multiplier: 1

Quant Time: May 15 09:30:03 2024
Quant Method : K:\VOA108\2024\240514NICAL\V108_240514N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed May 15 09:29:12 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA108\2024\240514NICAL\V08240514N09.d
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
78) Styrene	10.429	104	1274225	60.482	ug/L		92
80) Bromoform	10.450	173	132574	30.749	ug/L		96
82) Isopropylbenzene	10.743	105	977221	30.450	ug/L		95
84) Bromobenzene	11.173	156	244332	30.221	ug/L		99
85) n-Propylbenzene	11.221	91	1151349	30.364	ug/L		95
86) 1,4-Dichlorobutane	11.231	55	273466	29.001	ug/L		95
87) 1,1,2,2-Tetrachloroethane	11.305	83	198007	30.567	ug/L		99
88) 4-Ethyltoluene	11.346	105	952893	30.599	ug/L		95
89) 2-Chlorotoluene	11.383	91	681973M6	30.242	ug/L		
90) 1,3,5-Trimethylbenzene	11.446	105	841240	30.464	ug/L		91
91) 1,2,3-Trichloropropane	11.441	75	160320M4	29.605	ug/L		
92) trans-1,4-Dichloro-2-b...	11.493	53	60058	29.988	ug/L	#	72
93) 4-Chlorotoluene	11.567	91	705106	30.097	ug/L		92
94) tert-Butylbenzene	11.787	119	714490	30.351	ug/L		96
97) 1,2,4-Trimethylbenzene	11.860	105	829646	30.494	ug/L		93
98) sec-Butylbenzene	11.976	105	1046242	30.646	ug/L		96
99) p-Isopropyltoluene	12.128	119	916905	30.531	ug/L		95
100) 1,3-Dichlorobenzene	12.191	146	467746	30.021	ug/L		99
101) 1,4-Dichlorobenzene	12.285	146	470453	29.969	ug/L		99
102) p-Diethylbenzene	12.500	119	540465	30.564	ug/L		94
103) n-Butylbenzene	12.558	91	798695	30.678	ug/L		97
104) 1,2-Dichlorobenzene	12.704	146	441267	30.045	ug/L		98
105) 1,2,4,5-Tetramethylben...	13.292	119	882501	30.646	ug/L		97
106) 1,2-Dibromo-3-chloropr...	13.480	155	31701	32.021	ug/L		90
107) 1,3,5-Trichlorobenzene	13.512	180	358987	30.504	ug/L		93
108) Hexachlorobutadiene	14.089	225	155086	30.573	ug/L		97
109) 1,2,4-Trichlorobenzene	14.110	180	318750	30.121	ug/L		99
110) Naphthalene	14.398	128	633264	30.087	ug/L		100
111) 1,2,3-Trichlorobenzene	14.571	180	287174	30.148	ug/L		100

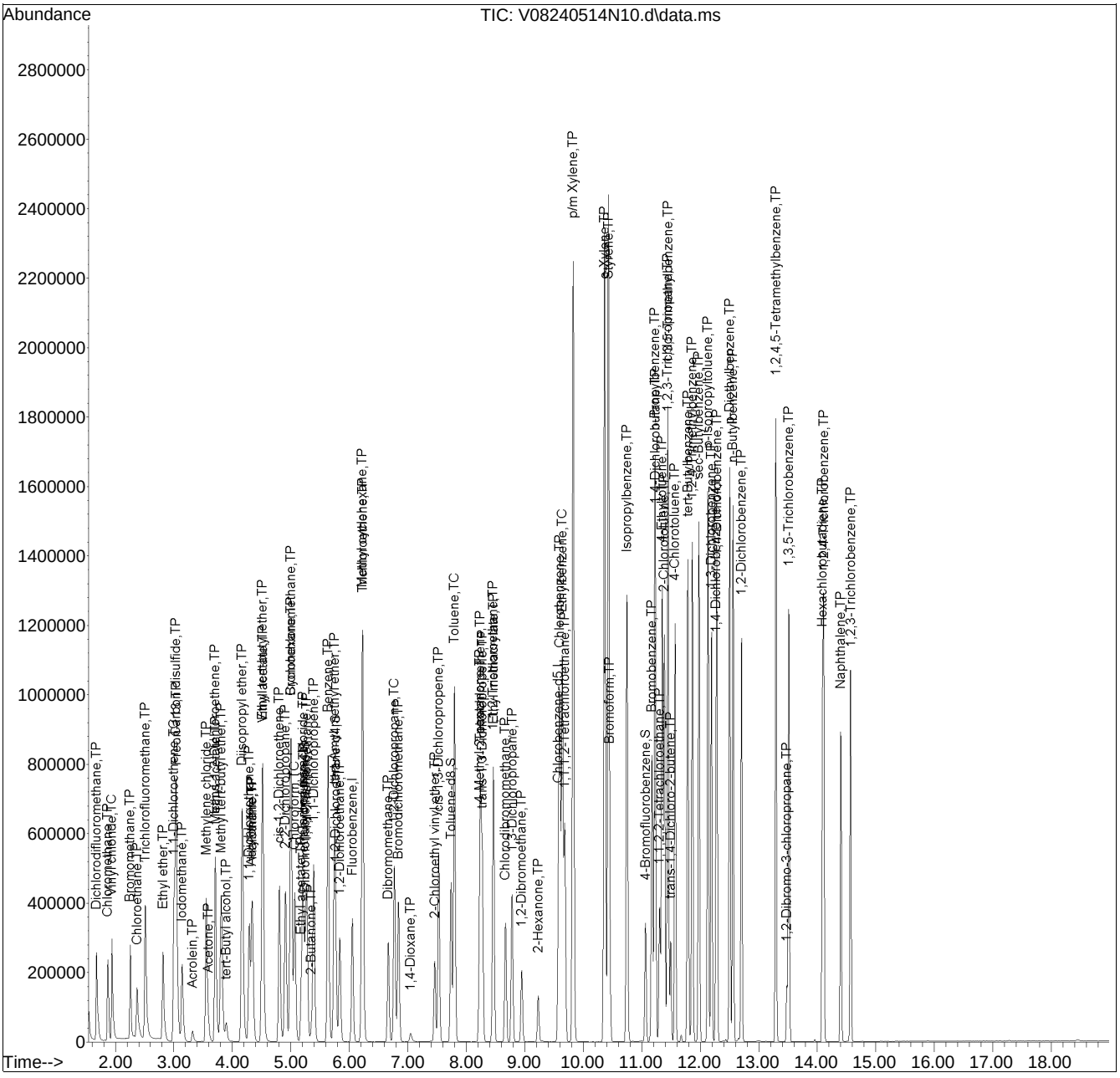
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : K:\VOA108\2024\240514NICAL\
Data File : V08240514N10.d
Acq On : 14 May 2024 10:26 pm
Operator : VOA108:PID
Sample : I8260STD30PPB
Misc : WG1921348,ICAL
ALS Vial : 10 Sample Multiplier: 1

Quant Time: May 15 09:30:03 2024
Quant Method : K:\VOA108\2024\240514NICAL\V108_240514N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed May 15 09:29:12 2024
Response via : Initial Calibration

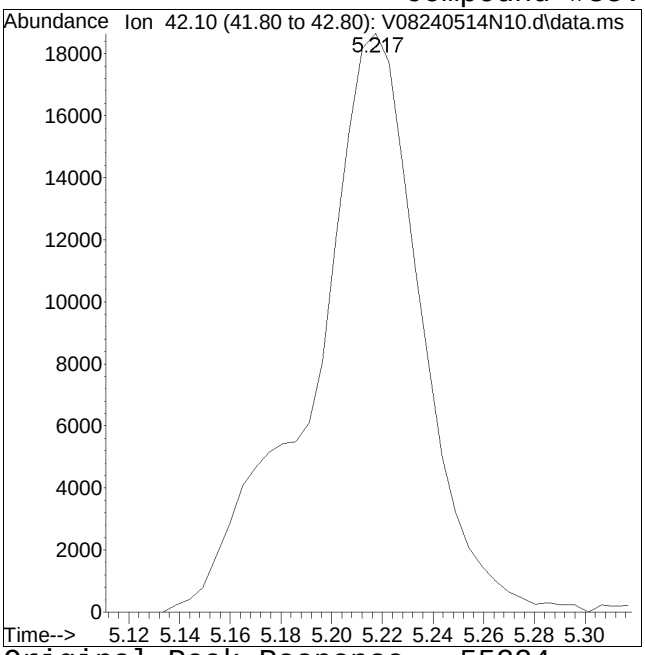
Sub List : 8260-Curve - Megamix plus Diox\V08240514N09.d•



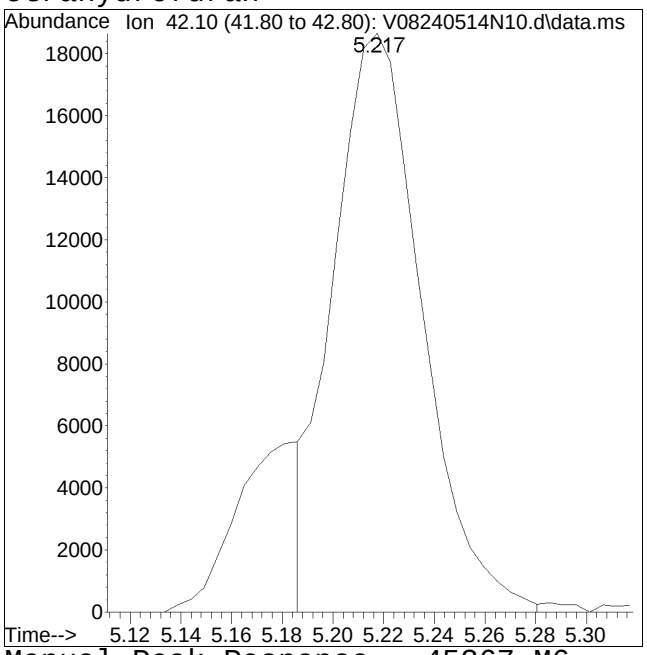
Manual Integration Report

Data Path : K:\VOA108\2024\240514NICALQMethod : V108_240514N_8260.m
Data File : V08240514N10.d Operator : VOA108:PID
Date Inj'd : 5/14/2024 10:26 pm Instrument : VOA 108
Sample : I8260STD30PPB Quant Date : 5/15/2024 9:30 am

Compound #35: Tetrahydrofuran



Original Peak Response = 55224



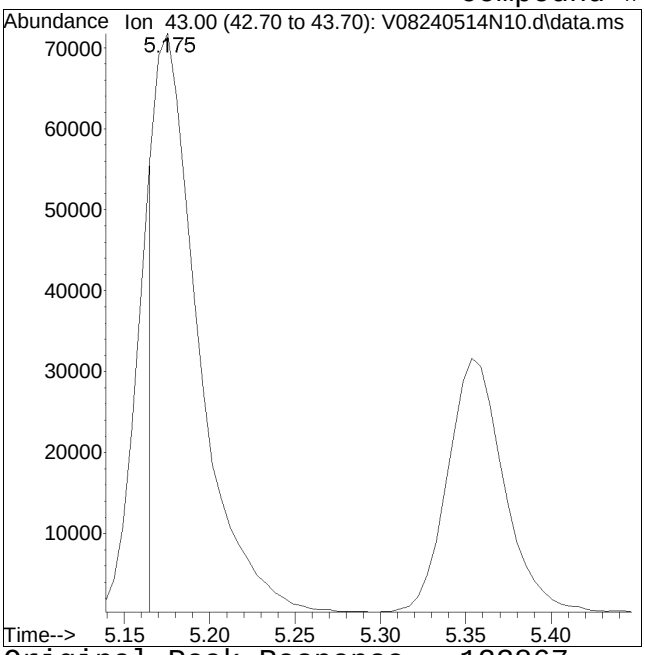
Manual Peak Response = 45267 M6

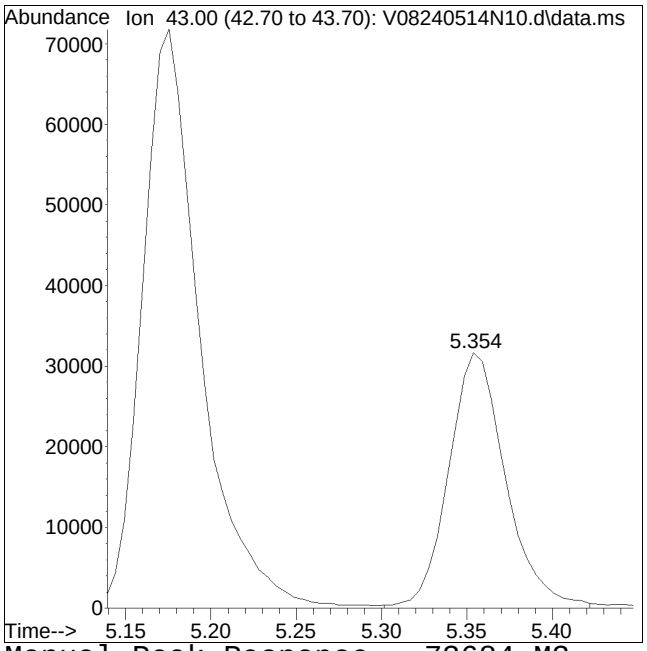
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

Data Path : K:\VOA108\2024\240514NICALQMethod : V108_240514N_8260.m
Data File : V08240514N10.d Operator : VOA108:PID
Date Inj'd : 5/14/2024 10:26 pm Instrument : VOA 108
Sample : I8260STD30PPB Quant Date : 5/15/2024 9:30 am

Compound #39: 2-Butanone





Original Peak Response = 123867 Manual Peak Response = 73684 M3

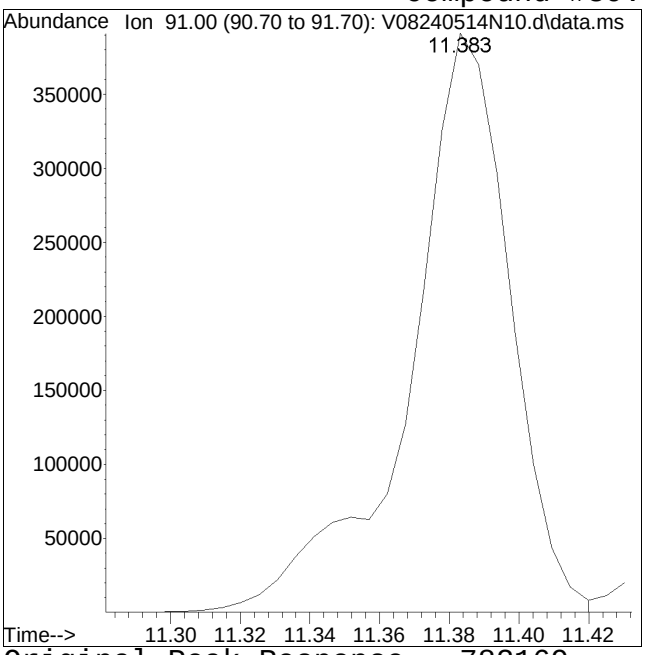
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

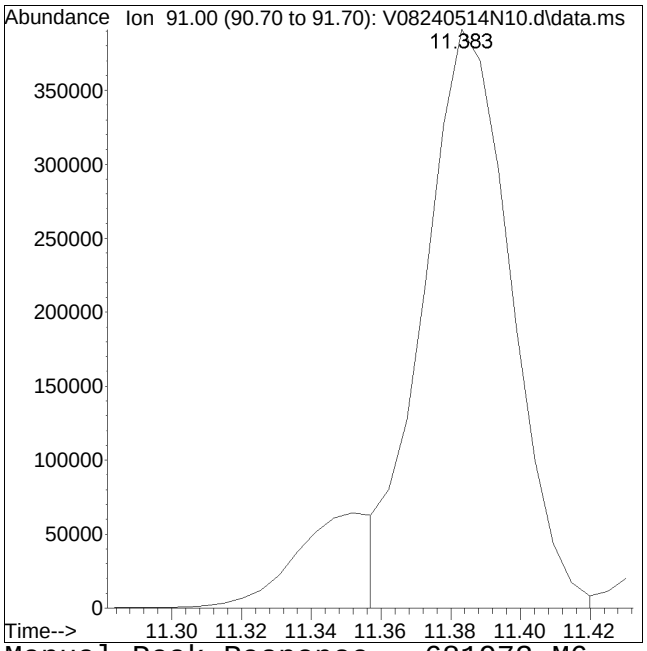
Data Path : K:\VOA108\2024\240514NICALQ
Data File : V08240514N10.d
Date Inj'd : 5/14/2024 10:26 pm
Sample : I8260STD30PPB

Method : V108_240514N_8260.m
Operator : VOA108:PID
Instrument : VOA 108
Quant Date : 5/15/2024 9:30 am

Compound #89: 2-Chlorotoluene



Original Peak Response = 782169



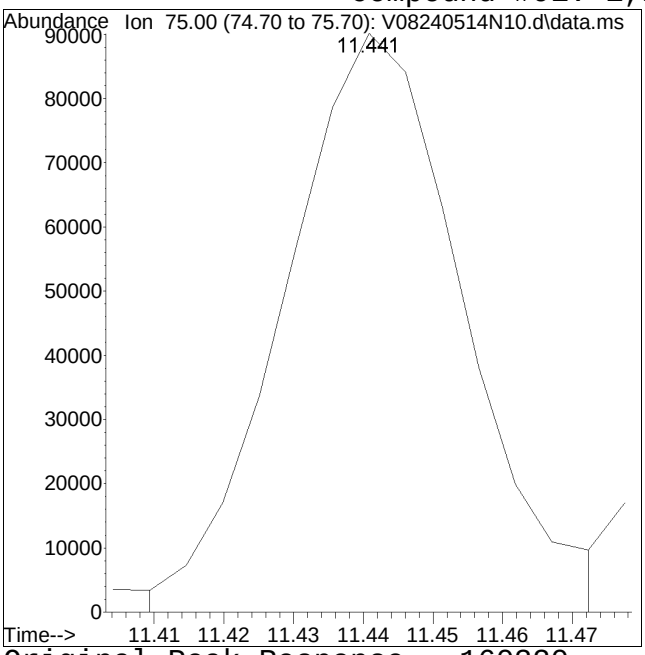
Manual Peak Response = 681973 M6

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

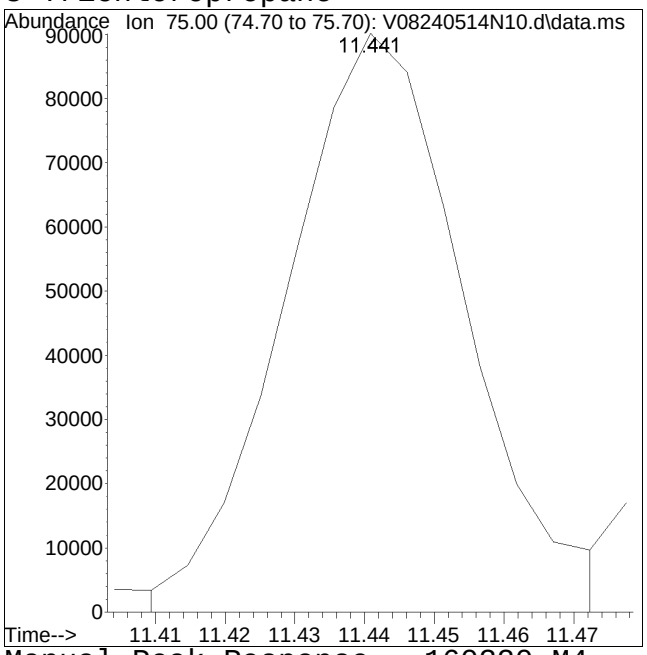
Manual Integration Report

Data Path : K:\VOA108\2024\240514NICALQMethod : V108_240514N_8260.m
Data File : V08240514N10.d Operator : VOA108:PID
Date Inj'd : 5/14/2024 10:26 pm Instrument : VOA 108
Sample : I8260STD30PPB Quant Date : 5/15/2024 9:30 am

Compound #91: 1,2,3-Trichloropropane



Original Peak Response = 160320



Manual Peak Response = 160320 M4

M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : K:\VOA108\2024\240514NICAL\
Data File : V08240514N11.d
Acq On : 14 May 2024 10:48 pm
Operator : VOA108:PID
Sample : I8260STD80PPB
Misc : WG1921348,ICAL
ALS Vial : 11 Sample Multiplier: 1

Quant Time: May 15 09:30:10 2024
Quant Method : K:\VOA108\2024\240514NICAL\V108_240514N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed May 15 09:29:12 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA108\2024\240514NICAL\V08240514N09.d
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) Fluorobenzene	6.051	96	377841	10.000 ug/L	0.00
Standard Area 1 = 354232			Recovery = 106.66%		
59) Chlorobenzene-d5	9.574	117	278189	10.000 ug/L	0.00
Standard Area 1 = 261628			Recovery = 106.33%		
79) 1,4-Dichlorobenzene-d4	12.269	152	136833	10.000 ug/L	0.00
Standard Area 1 = 128716			Recovery = 106.31%		
System Monitoring Compounds					
36) Dibromofluoromethane	5.244	113	103776	10.016 ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 100.16%		
43) 1,2-Dichloroethane-d4	5.768	65	117148	10.103 ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 101.03%		
60) Toluene-d8	7.739	98	363825	9.964 ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 99.64%		
83) 4-Bromofluorobenzene	11.063	95	130155	9.990 ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 99.90%		
Target Compounds					Qvalue
2) Dichlorodifluoromethane	1.678	85	672871	77.157 ug/L	99
3) Chloromethane	1.872	50	682984	76.183 ug/L	100
4) Vinyl chloride	1.940	62	734466	76.862 ug/L	95
5) Bromomethane	2.255	94	364075	75.551 ug/L	98
6) Chloroethane	2.370	64	402840	75.224 ug/L	96
7) Trichlorofluoromethane	2.512	101	973136	77.848 ug/L	96
8) Ethyl ether	2.816	74	277429	74.324 ug/L	81
10) 1,1-Dichloroethene	3.000	96	473818	76.041 ug/L #	70
11) Carbon disulfide	3.031	76	1650033	77.741 ug/L	96
12) Freon-113	3.042	101	500717	78.072 ug/L	98
13) Iodomethane	3.141	142	817637	84.313 ug/L	88
14) Acrolein	3.319	56	78773	66.086 ug/L	94
15) Methylene chloride	3.555	84	556002	64.435 ug/L	76
17) Acetone	3.592	43	105509	56.870 ug/L	98
18) trans-1,2-Dichloroethene	3.707	96	539460	76.402 ug/L	81
19) Methyl acetate	3.713	43	295245	67.598 ug/L #	87
20) Methyl tert-butyl ether	3.807	73	1426861	75.020 ug/L	96
21) tert-Butyl alcohol	3.896	59	196126	374.993 ug/L #	69
22) Diisopropyl ether	4.169	45	1995775	75.675 ug/L	92
23) 1,1-Dichloroethane	4.289	63	1058311	76.401 ug/L	99
24) Halothane	4.342	117	420470	77.810 ug/L	99

Data Path : K:\VOA108\2024\240514NICAL\
Data File : V08240514N11.d
Acq On : 14 May 2024 10:48 pm
Operator : VOA108:PID
Sample : I8260STD80PPB
Misc : WG1921348,ICAL
ALS Vial : 11 Sample Multiplier: 1

Quant Time: May 15 09:30:10 2024
Quant Method : K:\VOA108\2024\240514NICAL\V108_240514N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed May 15 09:29:12 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA108\2024\240514NICAL\V08240514N09.d
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
25) Acrylonitrile	4.326	53	133593	74.213	ug/L	#	87
26) Ethyl tert-butyl ether	4.515	59	1818330	76.065	ug/L		90
27) Vinyl acetate	4.520	43	1250427	75.829	ug/L	#	96
28) cis-1,2-Dichloroethene	4.803	96	600281	75.868	ug/L	#	74
29) 2,2-Dichloropropane	4.908	77	912207	77.178	ug/L		100
30) Bromochloromethane	4.997	128	292521	76.496	ug/L	#	62
31) Cyclohexane	5.002	56	943681	76.029	ug/L	#	65
32) Chloroform	5.065	83	1010519	75.569	ug/L		97
33) Ethyl acetate	5.175	43	441406	73.170	ug/L	#	92
34) Carbon tetrachloride	5.207	117	849004	78.000	ug/L		99
35) Tetrahydrofuran	5.217	42	121804M6	73.580	ug/L		
37) 1,1,1-Trichloroethane	5.270	97	892527	76.347	ug/L	#	93
39) 2-Butanone	5.354	43	193223M3	74.985	ug/L		
40) 1,1-Dichloropropene	5.390	75	747678	77.519	ug/L		95
41) Benzene	5.637	78	2229527	76.098	ug/L		92
42) tert-Amyl methyl ether	5.747	73	1539394	75.209	ug/L		88
44) 1,2-Dichloroethane	5.836	62	735030	74.761	ug/L		97
47) Methyl cyclohexane	6.224	83	907603	78.087	ug/L	#	74
48) Trichloroethene	6.229	95	590834	76.392	ug/L		95
50) Dibromomethane	6.664	93	341697	76.356	ug/L		97
51) 1,2-Dichloropropane	6.769	63	596076	76.640	ug/L		96
53) 2-Chloroethyl vinyl ether	7.461	63	320683	77.157	ug/L		94
54) Bromodichloromethane	6.837	83	819731	76.676	ug/L		99
57) 1,4-Dioxane	7.047	88	32363	731.604	ug/L	#	77
58) cis-1,3-Dichloropropene	7.530	75	955261	77.044	ug/L		95
61) Toluene	7.797	92	1401575	77.093	ug/L		95
62) 4-Methyl-2-pentanone	8.227	58	158907	79.619	ug/L	#	84
63) Tetrachloroethene	8.243	166	583814	77.580	ug/L		93
65) trans-1,3-Dichloropropene	8.274	75	844149	77.607	ug/L		98
67) Ethyl methacrylate	8.463	69	595812	77.033	ug/L	#	47
68) 1,1,2-Trichloroethane	8.458	83	376652	76.127	ug/L		94
69) Chlorodibromomethane	8.667	129	612410	79.082	ug/L		98
70) 1,3-Dichloropropane	8.777	76	774513	76.666	ug/L		98
71) 1,2-Dibromoethane	8.945	107	448037	77.453	ug/L		97
72) 2-Hexanone	9.228	43	290669	69.596	ug/L		98
73) Chlorobenzene	9.595	112	1564954	77.491	ug/L		93
74) Ethylbenzene	9.637	91	2719111	78.846	ug/L		98
75) 1,1,1,2-Tetrachloroethane	9.679	131	601702	78.342	ug/L		95
76) p/m Xylene	9.826	106	2126305	157.088	ug/L		97
77) o Xylene	10.366	106	2082039	156.958	ug/L		91

Quantitation Report (QT Reviewed)

Data Path : K:\VOA108\2024\240514NICAL\
Data File : V08240514N11.d
Acq On : 14 May 2024 10:48 pm
Operator : VOA108:PID
Sample : I8260STD80PPB
Misc : WG1921348,ICAL
ALS Vial : 11 Sample Multiplier: 1

Quant Time: May 15 09:30:10 2024
Quant Method : K:\VOA108\2024\240514NICAL\V108_240514N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed May 15 09:29:12 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA108\2024\240514NICAL\V08240514N09.d
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
78) Styrene	10.429	104	3539103	158.713	ug/L		93
80) Bromoform	10.450	173	367547	80.653	ug/L		95
82) Isopropylbenzene	10.744	105	2706156	79.779	ug/L		96
84) Bromobenzene	11.173	156	662677	77.547	ug/L		98
85) n-Propylbenzene	11.221	91	3209934	80.092	ug/L		96
86) 1,4-Dichlorobutane	11.231	55	756980	75.951	ug/L		96
87) 1,1,2,2-Tetrachloroethane	11.305	83	531155	77.577	ug/L		99
88) 4-Ethyltoluene	11.346	105	2626748	79.804	ug/L		95
89) 2-Chlorotoluene	11.388	91	1881352M6	78.931	ug/L		
90) 1,3,5-Trimethylbenzene	11.446	105	2338251	80.112	ug/L		91
91) 1,2,3-Trichloropropane	11.441	75	440696M4	76.992	ug/L		
92) trans-1,4-Dichloro-2-b...	11.493	53	167522	79.138	ug/L	#	73
93) 4-Chlorotoluene	11.567	91	1941262	78.396	ug/L		93
94) tert-Butylbenzene	11.787	119	1964531	78.955	ug/L		95
97) 1,2,4-Trimethylbenzene	11.860	105	2322876	80.776	ug/L		93
98) sec-Butylbenzene	11.976	105	2909397	80.628	ug/L		96
99) p-Isopropyltoluene	12.128	119	2567268	80.878	ug/L		96
100) 1,3-Dichlorobenzene	12.191	146	1293939	78.572	ug/L		99
101) 1,4-Dichlorobenzene	12.285	146	1299449	78.315	ug/L		99
102) p-Diethylbenzene	12.500	119	1520889	81.372	ug/L		95
103) n-Butylbenzene	12.558	91	2230298	81.048	ug/L		97
104) 1,2-Dichlorobenzene	12.704	146	1215980	78.332	ug/L		98
105) 1,2,4,5-Tetramethylben...	13.292	119	2455907	80.689	ug/L		98
106) 1,2-Dibromo-3-chloropr...	13.480	155	86874	83.022	ug/L		91
107) 1,3,5-Trichlorobenzene	13.512	180	982889	79.018	ug/L		94
108) Hexachlorobutadiene	14.089	225	423944	79.070	ug/L		96
109) 1,2,4-Trichlorobenzene	14.110	180	873344	78.080	ug/L		98
110) Naphthalene	14.403	128	1713177	77.007	ug/L		100
111) 1,2,3-Trichlorobenzene	14.571	180	791799	78.643	ug/L		99

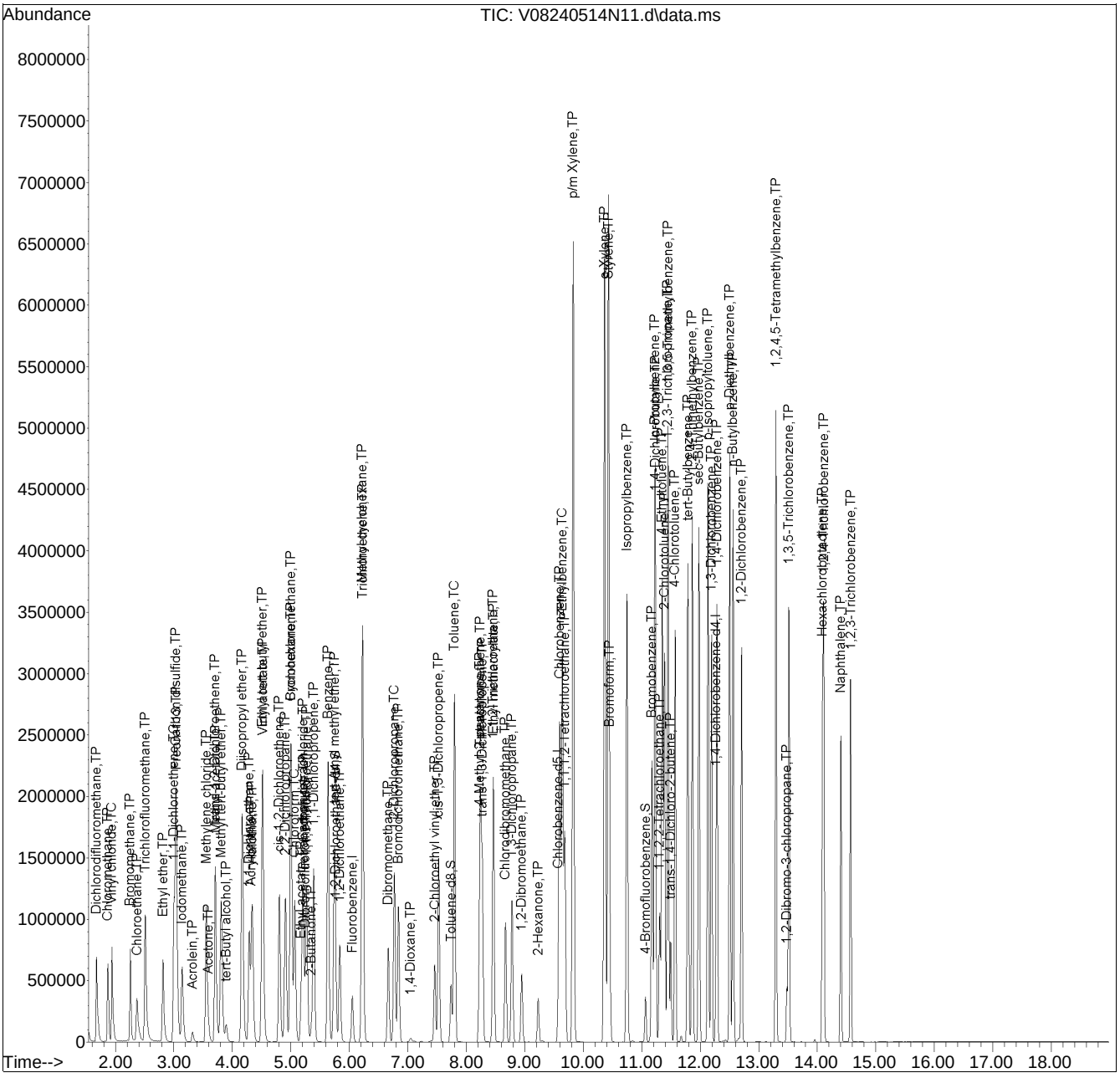
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : K:\VOA108\2024\240514NICAL\
Data File : V08240514N11.d
Acq On : 14 May 2024 10:48 pm
Operator : VOA108:PID
Sample : I8260STD80PPB
Misc : WG1921348,ICAL
ALS Vial : 11 Sample Multiplier: 1

Quant Time: May 15 09:30:10 2024
Quant Method : K:\VOA108\2024\240514NICAL\V108_240514N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed May 15 09:29:12 2024
Response via : Initial Calibration

Sub List : 8260-Curve - Megamix plus Diox\V08240514N09.d•

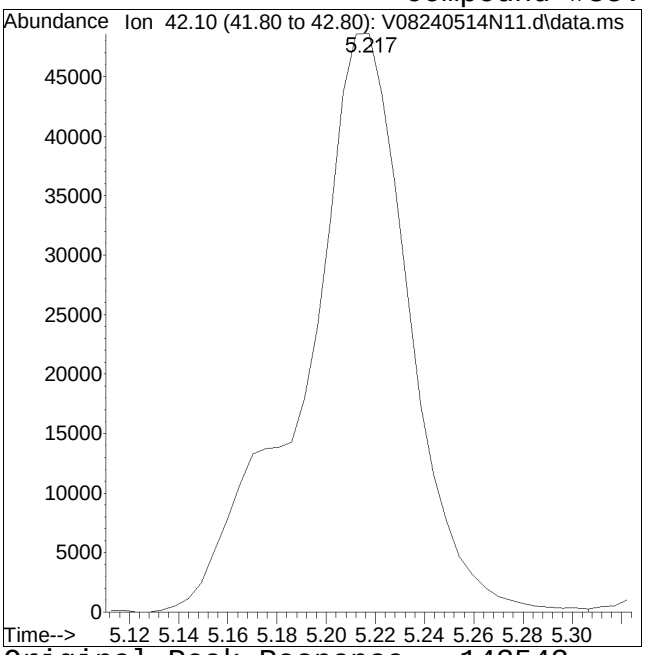


Manual Integration Report

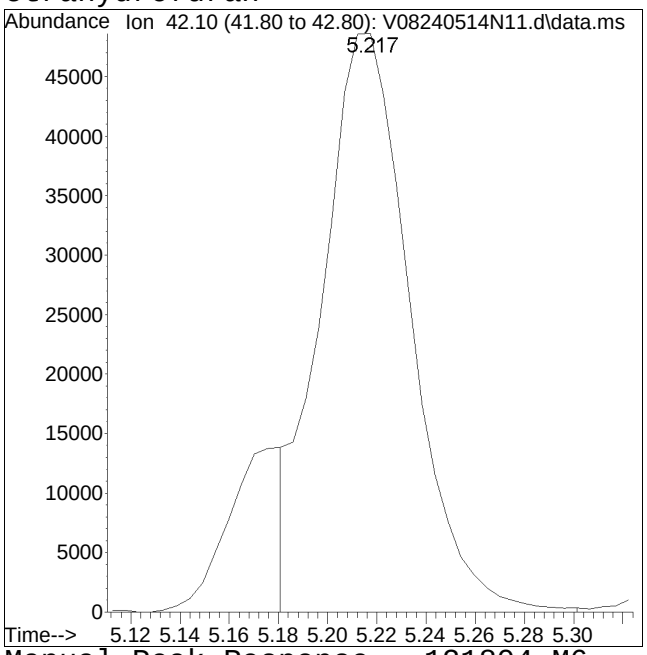
Data Path : K:\VOA108\2024\240514NICALQ
Data File : V08240514N11.d
Date Inj'd : 5/14/2024 10:48 pm
Sample : I8260STD80PPB

Method : V108_240514N_8260.m
Operator : VOA108:PID
Instrument : VOA 108
Quant Date : 5/15/2024 9:30 am

Compound #35: Tetrahydrofuran



Original Peak Response = 143543



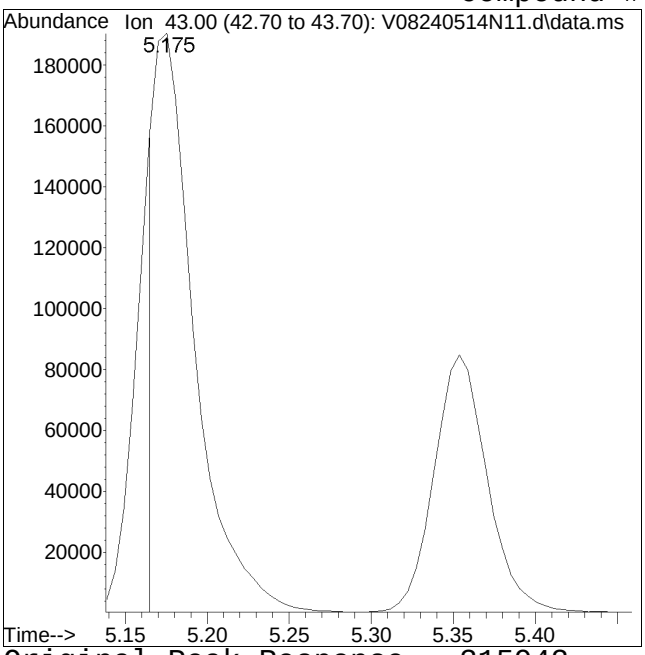
Manual Peak Response = 121804 M6

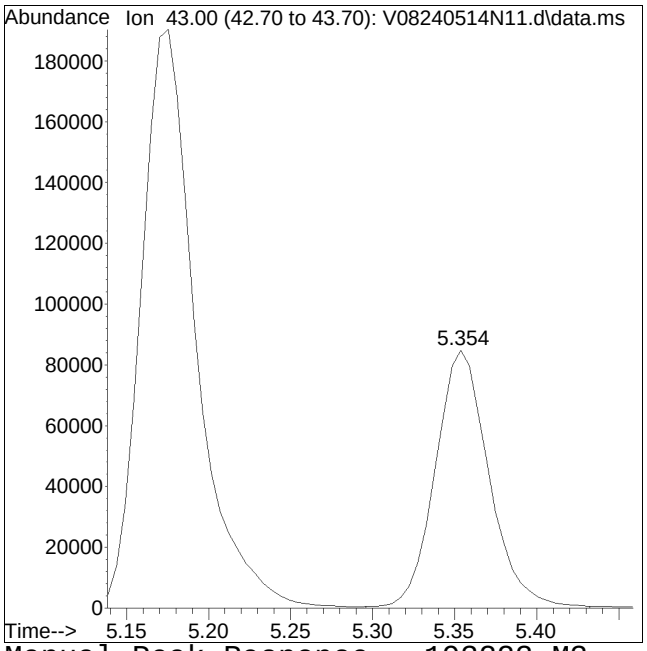
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

Data Path : K:\VOA108\2024\240514NICALQMethod : V108_240514N_8260.m
Data File : V08240514N11.d Operator : VOA108:PID
Date Inj'd : 5/14/2024 10:48 pm Instrument : VOA 108
Sample : I8260STD80PPB Quant Date : 5/15/2024 9:30 am

Compound #39: 2-Butanone





Original Peak Response = 315942 Manual Peak Response = 193223 M3

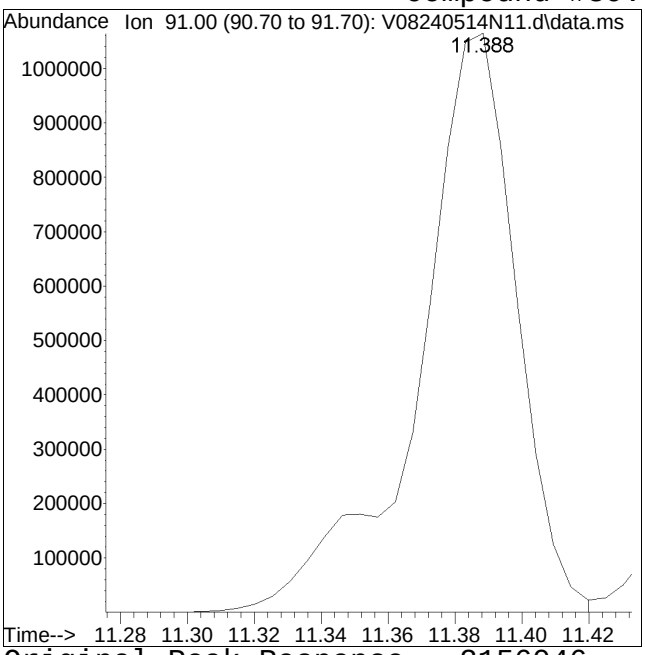
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

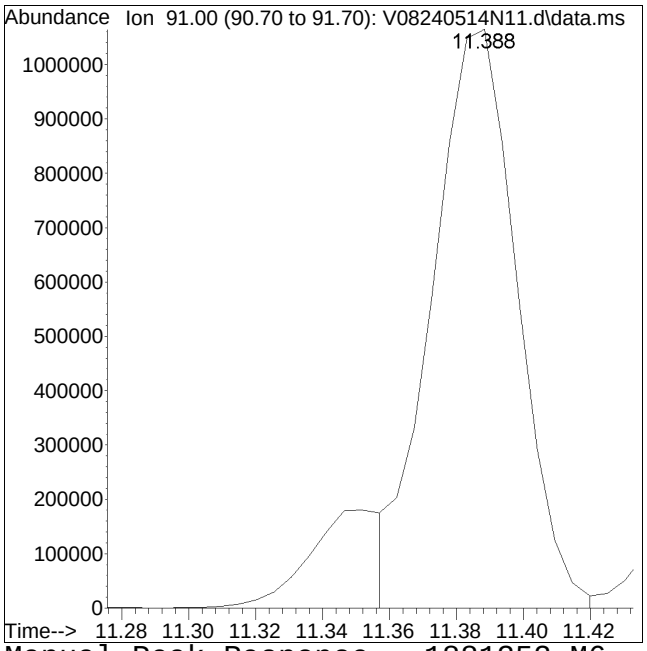
Data Path : K:\VOA108\2024\240514NICALQ
Data File : V08240514N11.d
Date Inj'd : 5/14/2024 10:48 pm
Sample : I8260STD80PPB

Method : V108_240514N_8260.m
Operator : VOA108:PID
Instrument : VOA 108
Quant Date : 5/15/2024 9:30 am

Compound #89: 2-Chlorotoluene



Original Peak Response = 2156046



Manual Peak Response = 1881352 M6

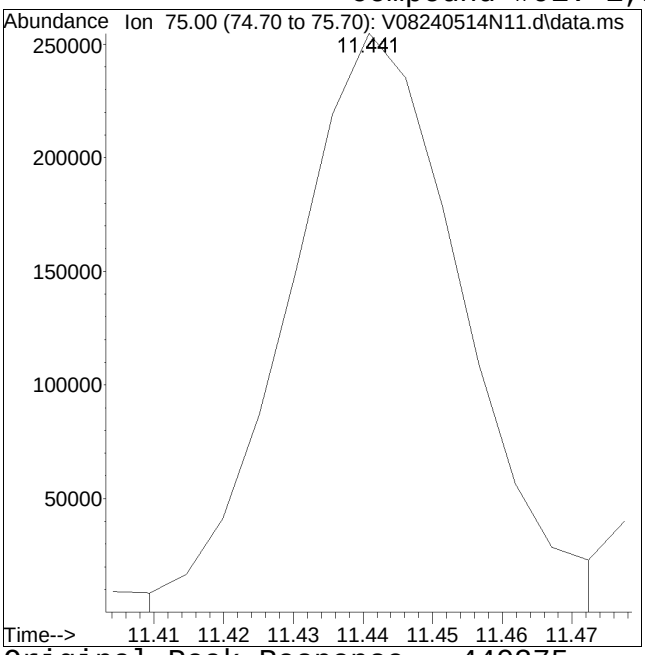
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

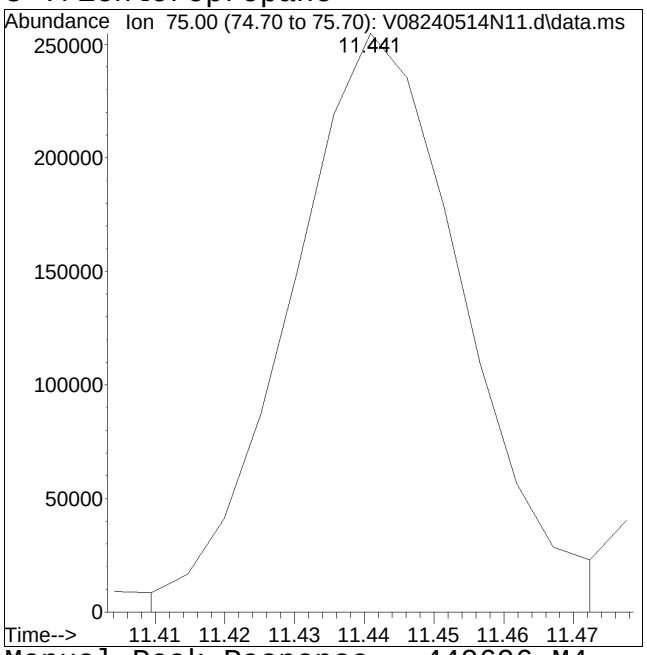
Data Path : K:\VOA108\2024\240514NICALQ
Data File : V08240514N11.d
Date Inj'd : 5/14/2024 10:48 pm
Sample : I8260STD80PPB

Method : V108_240514N_8260.m
Operator : VOA108:PID
Instrument : VOA 108
Quant Date : 5/15/2024 9:30 am

Compound #91: 1,2,3-Trichloropropane



Original Peak Response = 440375



Manual Peak Response = 440696 M4

M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : K:\VOA108\2024\240514NICAL\
Data File : V08240514N12.d
Acq On : 14 May 2024 11:10 pm
Operator : VOA108:PID
Sample : I8260STD120PPB
Misc : WG1921348,ICAL
ALS Vial : 12 Sample Multiplier: 1

Quant Time: May 15 09:30:16 2024
Quant Method : K:\VOA108\2024\240514NICAL\V108_240514N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed May 15 09:29:12 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA108\2024\240514NICAL\V08240514N09.d
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	6.051	96	379926	10.000	ug/L	0.00
Standard Area 1 = 354232			Recovery = 107.25%			
59) Chlorobenzene-d5	9.574	117	281887	10.000	ug/L	0.00
Standard Area 1 = 261628			Recovery = 107.74%			
79) 1,4-Dichlorobenzene-d4	12.269	152	137636	10.000	ug/L	0.00
Standard Area 1 = 128716			Recovery = 106.93%			
System Monitoring Compounds						
36) Dibromofluoromethane	5.244	113	104172	9.999	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 99.99%			
43) 1,2-Dichloroethane-d4	5.768	65	118621	10.174	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 101.74%			
60) Toluene-d8	7.739	98	367850	9.942	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 99.42%			
83) 4-Bromofluorobenzene	11.063	95	130840	9.984	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 99.84%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.678	85	1031568	117.639	ug/L	99
3) Chloromethane	1.872	50	1018711	113.008	ug/L	100
4) Vinyl chloride	1.940	62	1113332	115.870	ug/L	96
5) Bromomethane	2.255	94	564772	116.555	ug/L	98
6) Chloroethane	2.365	64	590319	109.628	ug/L	96
7) Trichlorofluoromethane	2.512	101	1480701	117.802	ug/L	96
8) Ethyl ether	2.816	74	414032	110.311	ug/L	81
10) 1,1-Dichloroethene	3.000	96	732846	116.966	ug/L #	70
11) Carbon disulfide	3.031	76	2521803	118.162	ug/L	96
12) Freon-113	3.042	101	773520	119.946	ug/L	98
13) Iodomethane	3.141	142	1250449	128.236	ug/L	88
14) Acrolein	3.319	56	121310	101.214	ug/L	94
15) Methylene chloride	3.555	84	839392	96.743	ug/L	76
17) Acetone	3.592	43	163652	87.726	ug/L	98
18) trans-1,2-Dichloroethene	3.707	96	818502	115.286	ug/L	81
19) Methyl acetate	3.713	43	457916	104.267	ug/L #	87
20) Methyl tert-butyl ether	3.807	73	2163542	113.129	ug/L	96
21) tert-Butyl alcohol	3.896	59	300292	571.007	ug/L #	68
22) Diisopropyl ether	4.169	45	3039575	114.621	ug/L	92
23) 1,1-Dichloroethane	4.289	63	1595302	114.535	ug/L	99
24) Halothane	4.342	117	640852	117.942	ug/L	99

Data Path : K:\VOA108\2024\240514NICAL\
Data File : V08240514N12.d
Acq On : 14 May 2024 11:10 pm
Operator : VOA108:PID
Sample : I8260STD120PPB
Misc : WG1921348,ICAL
ALS Vial : 12 Sample Multiplier: 1

Quant Time: May 15 09:30:16 2024
Quant Method : K:\VOA108\2024\240514NICAL\V108_240514N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed May 15 09:29:12 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA108\2024\240514NICAL\V08240514N09.d
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
25) Acrylonitrile	4.331	53	203791	112.587	ug/L	#	87
26) Ethyl tert-butyl ether	4.515	59	2776834	115.524	ug/L		88
27) Vinyl acetate	4.520	43	2002998	120.800	ug/L		96
28) cis-1,2-Dichloroethene	4.803	96	906937	113.996	ug/L	#	74
29) 2,2-Dichloropropane	4.908	77	1395777	117.442	ug/L		99
30) Bromochloromethane	4.997	128	438373	114.008	ug/L	#	62
31) Cyclohexane	5.002	56	1461995	117.141	ug/L	#	67
32) Chloroform	5.065	83	1521050	113.123	ug/L		98
33) Ethyl acetate	5.175	43	674641	111.219	ug/L	#	92
34) Carbon tetrachloride	5.207	117	1299459	118.730	ug/L		99
35) Tetrahydrofuran	5.212	42	183891M6	110.477	ug/L		
37) 1,1,1-Trichloroethane	5.270	97	1356684	115.415	ug/L	#	93
39) 2-Butanone	5.354	43	290033M3	111.937	ug/L		
40) 1,1-Dichloropropene	5.390	75	1140782	117.627	ug/L		95
41) Benzene	5.637	78	3378687	114.687	ug/L		92
42) tert-Amyl methyl ether	5.747	73	2342356	113.810	ug/L		88
44) 1,2-Dichloroethane	5.836	62	1110696	112.351	ug/L		97
47) Methyl cyclohexane	6.224	83	1408414	120.510	ug/L	#	75
48) Trichloroethene	6.229	95	891381	114.618	ug/L		95
50) Dibromomethane	6.664	93	518217	115.165	ug/L		97
51) 1,2-Dichloropropane	6.769	63	900868	115.192	ug/L		96
53) 2-Chloroethyl vinyl ether	7.461	63	484994	116.051	ug/L		94
54) Bromodichloromethane	6.838	83	1238785	115.237	ug/L		99
57) 1,4-Dioxane	7.052	88	50131	1127.051	ug/L	#	77
58) cis-1,3-Dichloropropene	7.530	75	1450542	116.347	ug/L		95
61) Toluene	7.797	92	2127614	115.494	ug/L		95
62) 4-Methyl-2-pentanone	8.227	58	245421	121.354	ug/L	#	85
63) Tetrachloroethene	8.243	166	897563	117.708	ug/L		92
65) trans-1,3-Dichloropropene	8.274	75	1290346	117.071	ug/L		93
67) Ethyl methacrylate	8.463	69	907278	115.763	ug/L	#	47
68) 1,1,2-Trichloroethane	8.458	83	571719	114.037	ug/L		94
69) Chlorodibromomethane	8.667	129	930385	118.566	ug/L		98
70) 1,3-Dichloropropane	8.783	76	1170116	114.306	ug/L		98
71) 1,2-Dibromoethane	8.945	107	677882	115.649	ug/L		97
72) 2-Hexanone	9.228	43	443779	104.862	ug/L		98
73) Chlorobenzene	9.601	112	2361226	115.386	ug/L		96
74) Ethylbenzene	9.643	91	4111891	117.668	ug/L		98
75) 1,1,1,2-Tetrachloroethane	9.684	131	912552	117.256	ug/L		95
76) p/m Xylene	9.826	106	3272784	238.616	ug/L		96
77) o Xylene	10.366	106	3193663	237.602	ug/L		91

Quantitation Report (QT Reviewed)

Data Path : K:\VOA108\2024\240514NICAL\
Data File : V08240514N12.d
Acq On : 14 May 2024 11:10 pm
Operator : VOA108:PID
Sample : I8260STD120PPB
Misc : WG1921348,ICAL
ALS Vial : 12 Sample Multiplier: 1

Quant Time: May 15 09:30:16 2024
Quant Method : K:\VOA108\2024\240514NICAL\V108_240514N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed May 15 09:29:12 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA108\2024\240514NICAL\V08240514N09.d
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
78) Styrene	10.429	104	5409923	239.428	ug/L		94
80) Bromoform	10.450	173	562180	122.643	ug/L		96
82) Isopropylbenzene	10.744	105	4122804	120.833	ug/L		95
84) Bromobenzene	11.173	156	1005755	117.007	ug/L		99
85) n-Propylbenzene	11.226	91	4870478	120.816	ug/L		96
86) 1,4-Dichlorobutane	11.231	55	1156830	115.392	ug/L		96
87) 1,1,2,2-Tetrachloroethane	11.305	83	814247	118.229	ug/L		99
88) 4-Ethyltoluene	11.352	105	3966127	119.793	ug/L		95
89) 2-Chlorotoluene	11.388	91	2851028M6	118.915	ug/L		
90) 1,3,5-Trimethylbenzene	11.446	105	3552652	121.009	ug/L		91
91) 1,2,3-Trichloropropane	11.441	75	677743	117.715	ug/L		98
92) trans-1,4-Dichloro-2-b...	11.493	53	255871	120.169	ug/L	#	72
93) 4-Chlorotoluene	11.572	91	2938926	117.993	ug/L		92
94) tert-Butylbenzene	11.787	119	2981705	119.136	ug/L		95
97) 1,2,4-Trimethylbenzene	11.866	105	3507508	121.259	ug/L		93
98) sec-Butylbenzene	11.976	105	4403708	121.329	ug/L		96
99) p-Isopropyltoluene	12.133	119	3868203	121.151	ug/L		96
100) 1,3-Dichlorobenzene	12.191	146	1951640	117.818	ug/L		99
101) 1,4-Dichlorobenzene	12.285	146	1954830	117.127	ug/L		99
102) p-Diethylbenzene	12.500	119	2308704	122.802	ug/L		95
103) n-Butylbenzene	12.558	91	3383870	122.252	ug/L		97
104) 1,2-Dichlorobenzene	12.704	146	1826887	117.000	ug/L		98
105) 1,2,4,5-Tetramethylben...	13.292	119	3742330	122.237	ug/L		98
106) 1,2-Dibromo-3-chloropr...	13.480	155	132219	125.619	ug/L		92
107) 1,3,5-Trichlorobenzene	13.512	180	1481989	118.448	ug/L		95
108) Hexachlorobutadiene	14.089	225	641726	118.990	ug/L		97
109) 1,2,4-Trichlorobenzene	14.110	180	1316834	117.043	ug/L		98
110) Naphthalene	14.403	128	2598046	116.100	ug/L		100
111) 1,2,3-Trichlorobenzene	14.571	180	1182390	116.753	ug/L		100

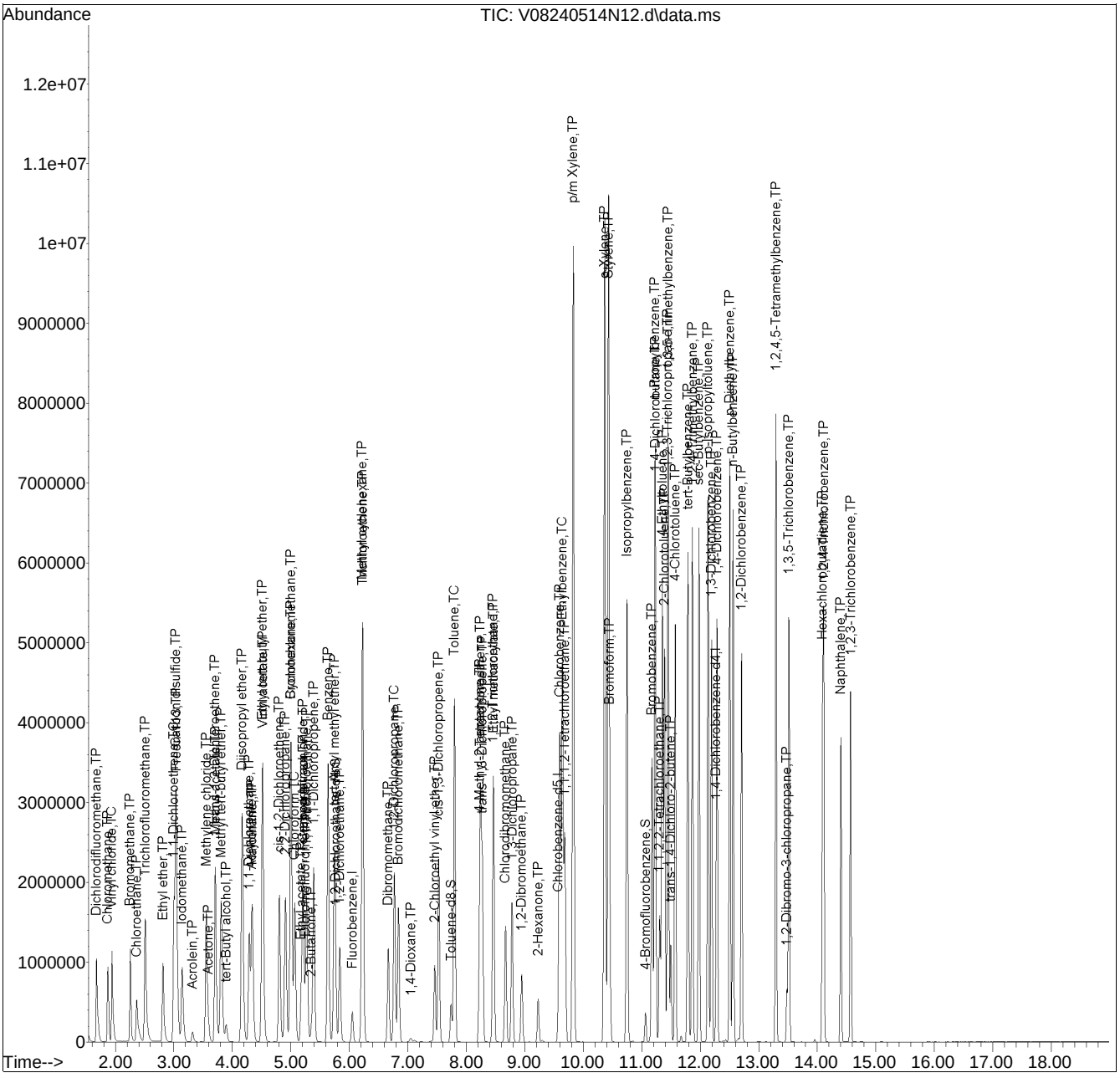
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : K:\VOA108\2024\240514NICAL\
Data File : V08240514N12.d
Acq On : 14 May 2024 11:10 pm
Operator : VOA108:PID
Sample : I8260STD120PPB
Misc : WG1921348,ICAL
ALS Vial : 12 Sample Multiplier: 1

Quant Time: May 15 09:30:16 2024
Quant Method : K:\VOA108\2024\240514NICAL\V108_240514N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed May 15 09:29:12 2024
Response via : Initial Calibration

Sub List : 8260-Curve - Megamix plus Diox\V08240514N09.d•

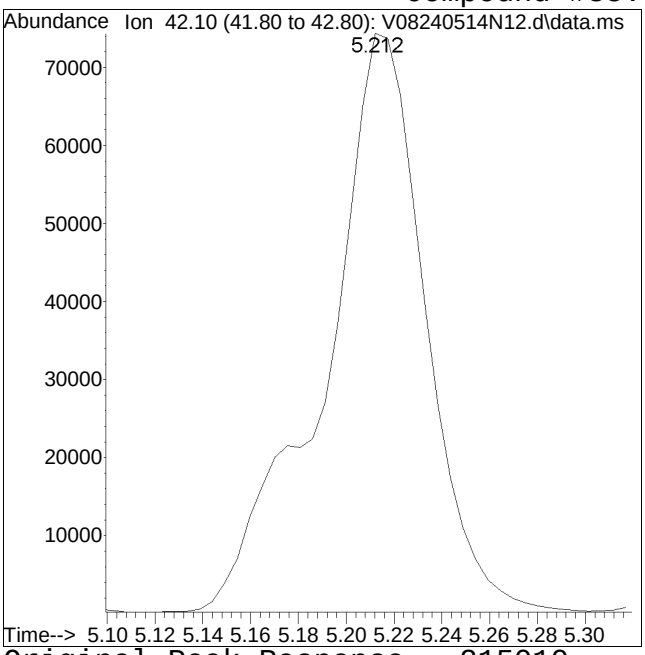


Manual Integration Report

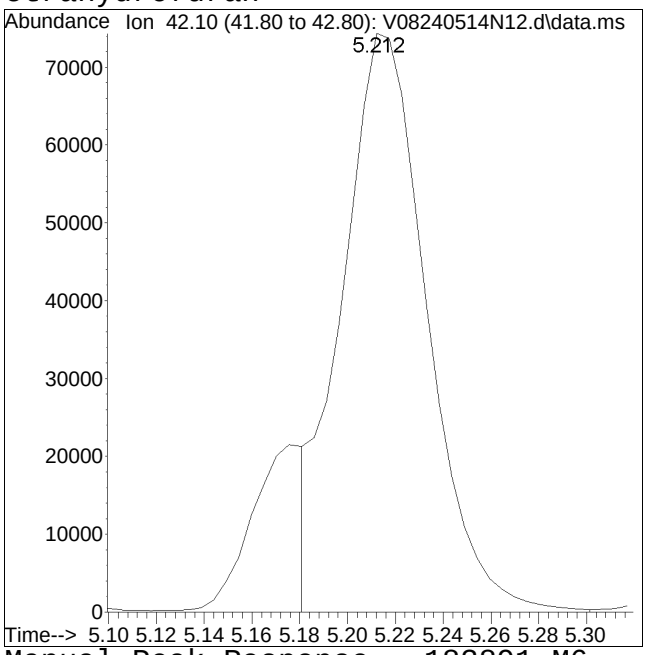
Data Path : K:\VOA108\2024\240514NICALQ
Data File : V08240514N12.d
Date Inj'd : 5/14/2024 11:10 pm
Sample : I8260STD120PPB

Method : V108_240514N_8260.m
Operator : VOA108:PID
Instrument : VOA 108
Quant Date : 5/15/2024 9:30 am

Compound #35: Tetrahydrofuran



Original Peak Response = 215010



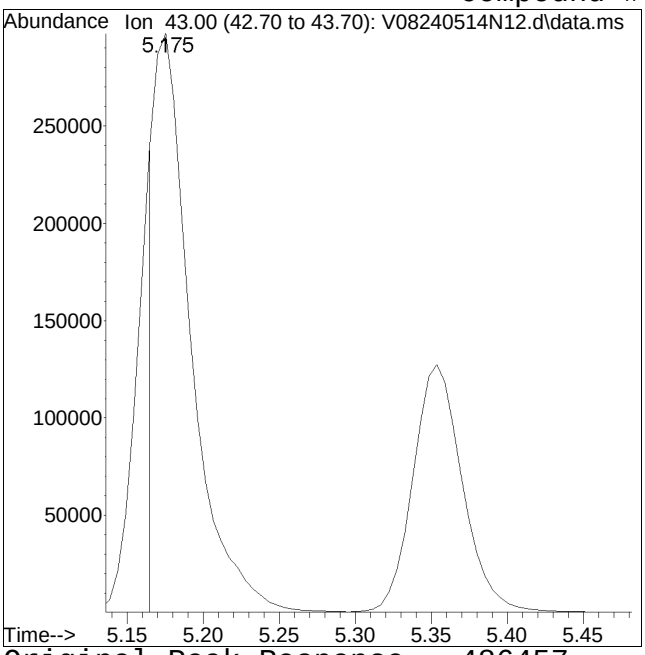
Manual Peak Response = 183891 M6

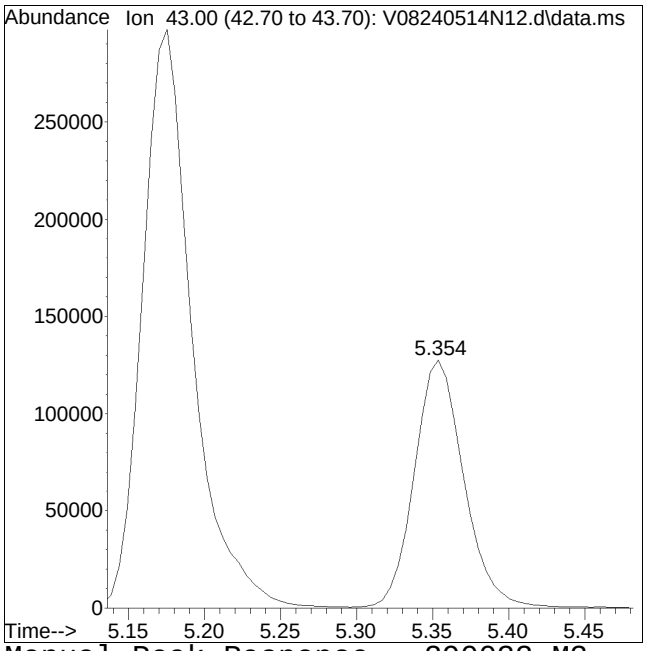
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

Data Path : K:\VOA108\2024\240514NICALQMethod : V108_240514N_8260.m
Data File : V08240514N12.d Operator : VOA108:PID
Date Inj'd : 5/14/2024 11:10 pm Instrument : VOA 108
Sample : I8260STD120PPB Quant Date : 5/15/2024 9:30 am

Compound #39: 2-Butanone





Original Peak Response = 486457 Manual Peak Response = 290033 M3

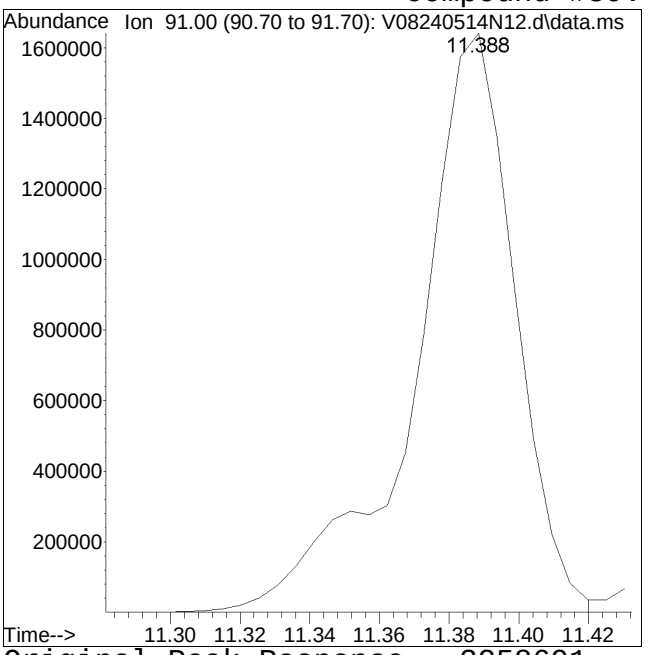
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

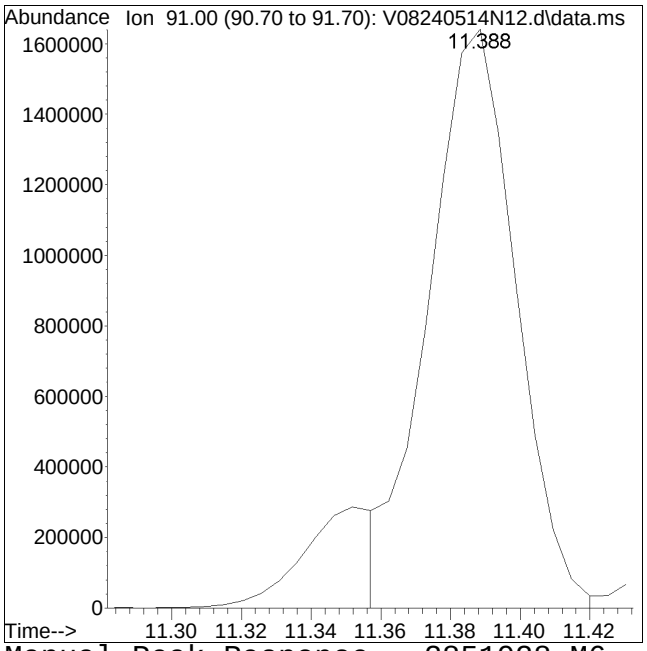
Data Path : K:\VOA108\2024\240514NICALQ
Data File : V08240514N12.d
Date Inj'd : 5/14/2024 11:10 pm
Sample : I8260STD120PPB

Method : V108_240514N_8260.m
Operator : VOA108:PID
Instrument : VOA 108
Quant Date : 5/15/2024 9:30 am

Compound #89: 2-Chlorotoluene



Original Peak Response = 3258691



Manual Peak Response = 2851028 M6

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

Quantitation Report (QT Reviewed)

Data Path : K:\VOA108\2024\240514NICAL\
Data File : V08240514N13.d
Acq On : 14 May 2024 11:33 pm
Operator : VOA108:PID
Sample : I8260STD200PPB
Misc : WG1921348,ICAL
ALS Vial : 13 Sample Multiplier: 1

Quant Time: May 15 09:30:24 2024
Quant Method : K:\VOA108\2024\240514NICAL\V108_240514N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed May 15 09:29:12 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA108\2024\240514NICAL\V08240514N09.d
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	6.051	96	340665	10.000	ug/L	0.00
Standard Area 1 = 354232			Recovery = 96.17%			
59) Chlorobenzene-d5	9.580	117	260933	10.000	ug/L	0.00
Standard Area 1 = 261628			Recovery = 99.73%			
79) 1,4-Dichlorobenzene-d4	12.269	152	131265	10.000	ug/L	0.00
Standard Area 1 = 128716			Recovery = 101.98%			
System Monitoring Compounds						
36) Dibromofluoromethane	5.244	113	93223	9.980	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 99.80%			
43) 1,2-Dichloroethane-d4	5.768	65	109875	10.510	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 105.10%			
60) Toluene-d8	7.739	98	335147	9.785	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 97.85%			
83) 4-Bromofluorobenzene	11.063	95	120780	9.663	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 96.63%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.678	85	1716350	218.289	ug/L	99
3) Chloromethane	1.872	50	1706496	211.122	ug/L	100
4) Vinyl chloride	1.940	62	1849216	214.638	ug/L	95
5) Bromomethane	2.255	94	961946	221.401	ug/L	97
6) Chloroethane	2.360	64	965396	199.945	ug/L	96
7) Trichlorofluoromethane	2.512	101	2459256	218.203	ug/L	96
8) Ethyl ether	2.816	74	688070	204.452	ug/L	82
10) 1,1-Dichloroethene	3.000	96	1235160	219.857	ug/L #	71
11) Carbon disulfide	3.031	76	4283782	223.855	ug/L	96
12) Freon-113	3.041	101	1313108	227.083	ug/L	99
13) Iodomethane	3.141	142	2059871	235.589	ug/L	89
14) Acrolein	3.319	56	201171	187.189	ug/L	93
15) Methylene chloride	3.555	84	1412203	181.519	ug/L	77
17) Acetone	3.592	43	272167	162.710	ug/L	97
18) trans-1,2-Dichloroethene	3.707	96	1382412	217.152	ug/L	81
19) Methyl acetate	3.713	43	773912	196.527	ug/L #	87
20) Methyl tert-butyl ether	3.807	73	3637600	212.126	ug/L	97
21) tert-Butyl alcohol	3.896	59	505297	1071.558	ug/L #	69
22) Diisopropyl ether	4.169	45	5154417	216.771	ug/L	92
23) 1,1-Dichloroethane	4.289	63	2688830	215.294	ug/L	99
24) Halothane	4.342	117	1075711	220.788	ug/L	99

Quantitation Report (QT Reviewed)

Data Path : K:\VOA108\2024\240514NICAL\
Data File : V08240514N13.d
Acq On : 14 May 2024 11:33 pm
Operator : VOA108:PID
Sample : I8260STD200PPB
Misc : WG1921348,ICAL
ALS Vial : 13 Sample Multiplier: 1

Quant Time: May 15 09:30:24 2024
Quant Method : K:\VOA108\2024\240514NICAL\V108_240514N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed May 15 09:29:12 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA108\2024\240514NICAL\V08240514N09.d
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
25) Acrylonitrile	4.331	53	346295	213.364	ug/L	#	87
26) Ethyl tert-butyl ether	4.515	59	4718701	218.936	ug/L		91
27) Vinyl acetate	4.520	43	3128063	210.394	ug/L		97
28) cis-1,2-Dichloroethene	4.803	96	1530702	214.573	ug/L	#	74
29) 2,2-Dichloropropane	4.908	77	2325954	218.264	ug/L		99
30) Bromochloromethane	4.997	128	727292	210.946	ug/L	#	63
31) Cyclohexane	5.002	56	2498375	223.251	ug/L	#	68
32) Chloroform	5.065	83	2564616	212.716	ug/L		98
33) Ethyl acetate	5.175	43	1136416	208.937	ug/L	#	92
34) Carbon tetrachloride	5.207	117	2197636	223.936	ug/L		99
35) Tetrahydrofuran	5.212	42	309989M6	207.696	ug/L		
37) 1,1,1-Trichloroethane	5.270	97	2290799	217.341	ug/L	#	93
39) 2-Butanone	5.354	43	489523M3	210.704	ug/L		
40) 1,1-Dichloropropene	5.390	75	1927060	221.600	ug/L		96
41) Benzene	5.637	78	5706020	216.009	ug/L		92
42) tert-Amyl methyl ether	5.747	73	3966414	214.930	ug/L		88
44) 1,2-Dichloroethane	5.836	62	1868541	210.793	ug/L		97
47) Methyl cyclohexane	6.224	83	2432919	232.162	ug/L	#	75
48) Trichloroethene	6.229	95	1570791	225.258	ug/L		95
50) Dibromomethane	6.664	93	873936	216.601	ug/L		97
51) 1,2-Dichloropropane	6.769	63	1529361	218.094	ug/L		96
53) 2-Chloroethyl vinyl ether	7.461	63	819961	218.815	ug/L		95
54) Bromodichloromethane	6.837	83	2097140	217.568	ug/L		99
57) 1,4-Dioxane	7.052	88	83178	2085.534	ug/L	#	75
58) cis-1,3-Dichloropropene	7.530	75	2450203	219.180	ug/L		96
61) Toluene	7.797	92	3628841	212.804	ug/L		94
62) 4-Methyl-2-pentanone	8.227	58	417104	222.808	ug/L	#	83
63) Tetrachloroethene	8.243	166	1522040	215.631	ug/L		93
65) trans-1,3-Dichloropropene	8.274	75	2188221	214.478	ug/L		99
67) Ethyl methacrylate	8.463	69	1555739	214.444	ug/L	#	48
68) 1,1,2-Trichloroethane	8.458	83	973613	209.796	ug/L		94
69) Chlorodibromomethane	8.672	129	1574559	216.772	ug/L		98
70) 1,3-Dichloropropane	8.783	76	1968388	207.729	ug/L		98
71) 1,2-Dibromoethane	8.945	107	1135342	209.248	ug/L		97
72) 2-Hexanone	9.228	43	743951	189.908	ug/L		98
73) Chlorobenzene	9.601	112	4006881	211.528	ug/L		96
74) Ethylbenzene	9.642	91	6982850	215.872	ug/L		97
75) 1,1,1,2-Tetrachloroethane	9.684	131	1545084	214.475	ug/L		95
76) p/m Xylene	9.831	106	5588014	440.135	ug/L		95
77) o Xylene	10.371	106	5448745	437.928	ug/L		90

Quantitation Report (QT Reviewed)

Data Path : K:\VOA108\2024\240514NICAL\
Data File : V08240514N13.d
Acq On : 14 May 2024 11:33 pm
Operator : VOA108:PID
Sample : I8260STD200PPB
Misc : WG1921348,ICAL
ALS Vial : 13 Sample Multiplier: 1

Quant Time: May 15 09:30:24 2024
Quant Method : K:\VOA108\2024\240514NICAL\V108_240514N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed May 15 09:29:12 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA108\2024\240514NICAL\V08240514N09.d
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
78) Styrene	10.434	104	9109063	435.516	ug/L		97
80) Bromoform	10.455	173	949109	217.103	ug/L		97
82) Isopropylbenzene	10.749	105	6977946	214.439	ug/L		95
84) Bromobenzene	11.173	156	1704206	207.886	ug/L		99
85) n-Propylbenzene	11.226	91	8207323	213.470	ug/L		95
86) 1,4-Dichlorobutane	11.236	55	2003921	209.590	ug/L		96
87) 1,1,2,2-Tetrachloroethane	11.305	83	1348378	205.288	ug/L		100
88) 4-Ethyltoluene	11.352	105	6719643	212.811	ug/L		95
89) 2-Chlorotoluene	11.388	91	4787070M6	209.357	ug/L		
90) 1,3,5-Trimethylbenzene	11.451	105	6059848	216.426	ug/L		91
91) 1,2,3-Trichloropropane	11.446	75	1164469M1	212.070	ug/L		
92) trans-1,4-Dichloro-2-b...	11.499	53	430163	211.830	ug/L	#	71
93) 4-Chlorotoluene	11.572	91	5050376	212.605	ug/L		93
94) tert-Butylbenzene	11.787	119	5074042	212.577	ug/L		94
97) 1,2,4-Trimethylbenzene	11.866	105	5981709	216.833	ug/L		93
98) sec-Butylbenzene	11.976	105	7402696	213.854	ug/L		96
99) p-Isopropyltoluene	12.133	119	6581733	216.144	ug/L		97
100) 1,3-Dichlorobenzene	12.196	146	3301687	208.993	ug/L		99
101) 1,4-Dichlorobenzene	12.285	146	3333902	209.451	ug/L		99
102) p-Diethylbenzene	12.505	119	3982774	222.129	ug/L		96
103) n-Butylbenzene	12.563	91	5768573	218.520	ug/L		96
104) 1,2-Dichlorobenzene	12.704	146	3091311	207.587	ug/L		99
105) 1,2,4,5-Tetramethylben...	13.292	119	6421718	219.936	ug/L		98
106) 1,2-Dibromo-3-chloropr...	13.480	155	221706	220.862	ug/L		92
107) 1,3,5-Trichlorobenzene	13.517	180	2561906	214.698	ug/L		95
108) Hexachlorobutadiene	14.089	225	1108828	215.579	ug/L		97
109) 1,2,4-Trichlorobenzene	14.110	180	2292605	213.662	ug/L		98
110) Naphthalene	14.403	128	4435833	207.846	ug/L		100
111) 1,2,3-Trichlorobenzene	14.571	180	2049809	212.228	ug/L		99

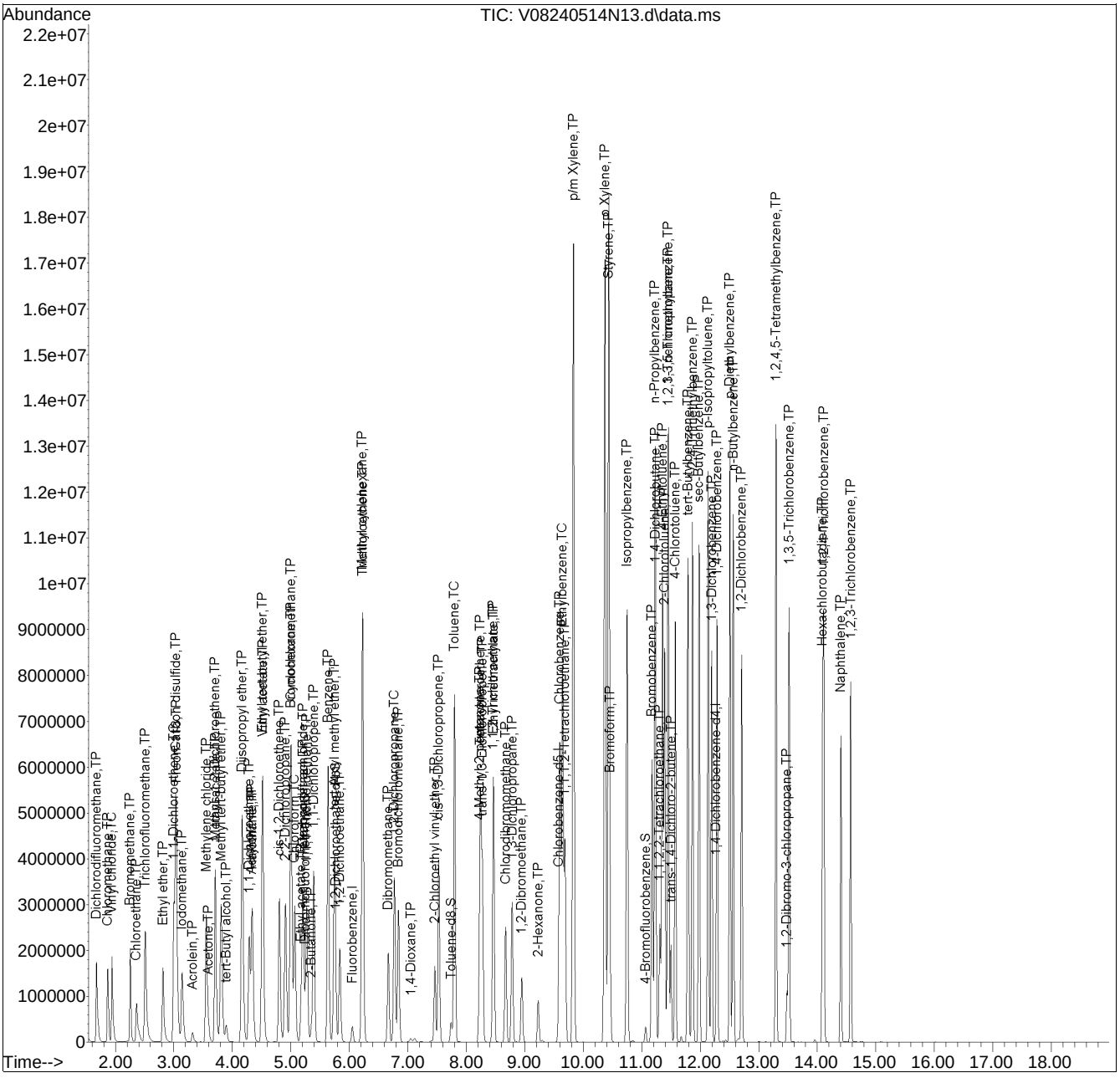
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : K:\VOA108\2024\240514NICAL\
Data File : V08240514N13.d
Acq On : 14 May 2024 11:33 pm
Operator : VOA108:PID
Sample : I8260STD200PPB
Misc : WG1921348,ICAL
ALS Vial : 13 Sample Multiplier: 1

Quant Time: May 15 09:30:24 2024
Quant Method : K:\VOA108\2024\240514NICAL\V108_240514N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed May 15 09:29:12 2024
Response via : Initial Calibration

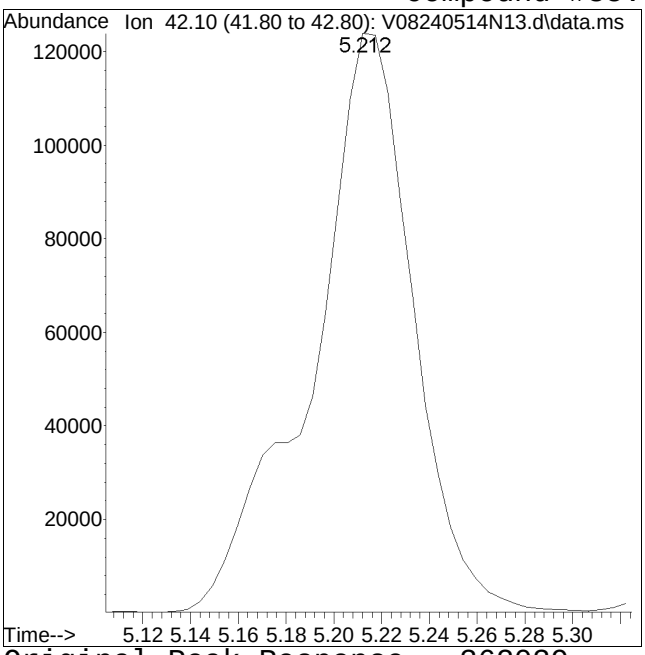
Sub List : 8260-Curve - Megamix plus Diox\V08240514N09.d•



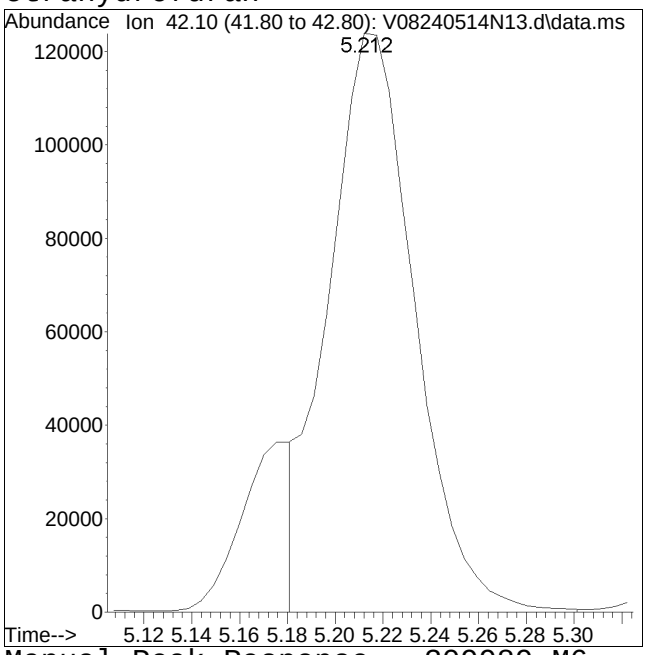
Manual Integration Report

Data Path : K:\VOA108\2024\240514NICALQMethod : V108_240514N_8260.m
Data File : V08240514N13.d Operator : VOA108:PID
Date Inj'd : 5/14/2024 11:33 pm Instrument : VOA 108
Sample : I8260STD200PPB Quant Date : 5/15/2024 9:30 am

Compound #35: Tetrahydrofuran



Original Peak Response = 362039



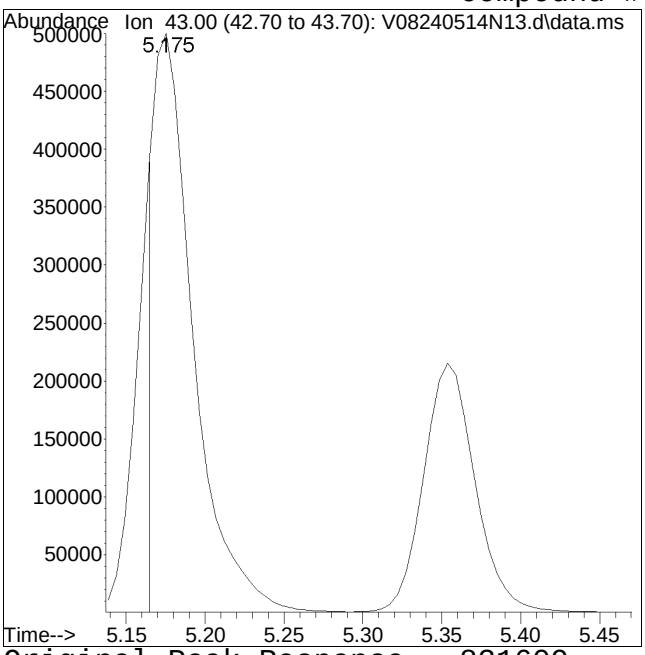
Manual Peak Response = 309989 M6

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

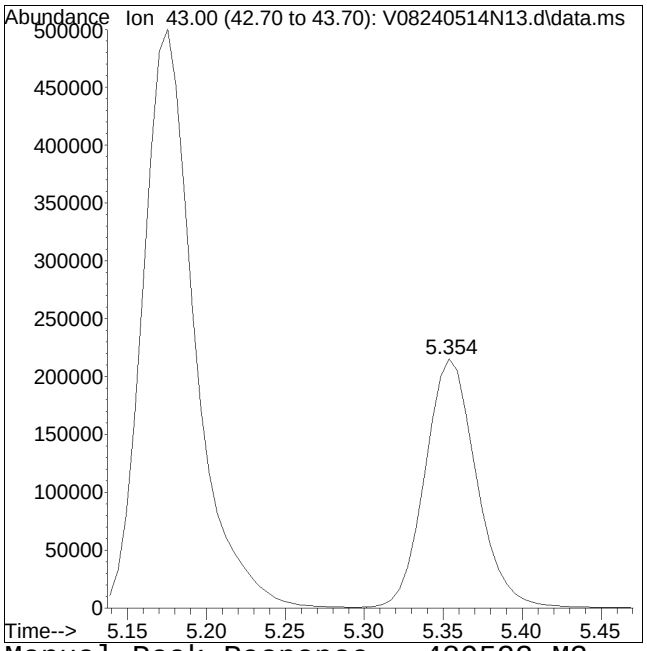
Manual Integration Report

Data Path : K:\VOA108\2024\240514NICALQMethod : V108_240514N_8260.m
Data File : V08240514N13.d Operator : VOA108:PID
Date Inj'd : 5/14/2024 11:33 pm Instrument : VOA 108
Sample : I8260STD200PPB Quant Date : 5/15/2024 9:30 am

Compound #39: 2-Butanone



Original Peak Response = 831609



Manual Peak Response = 489523 M3

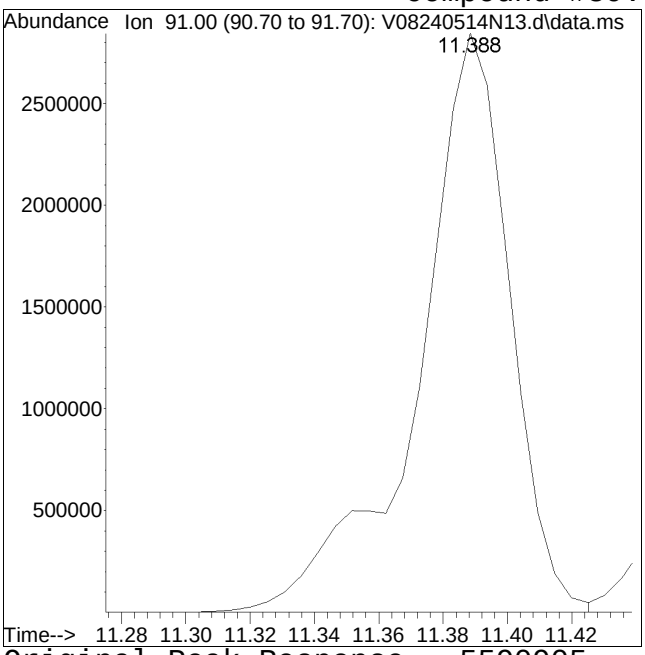
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

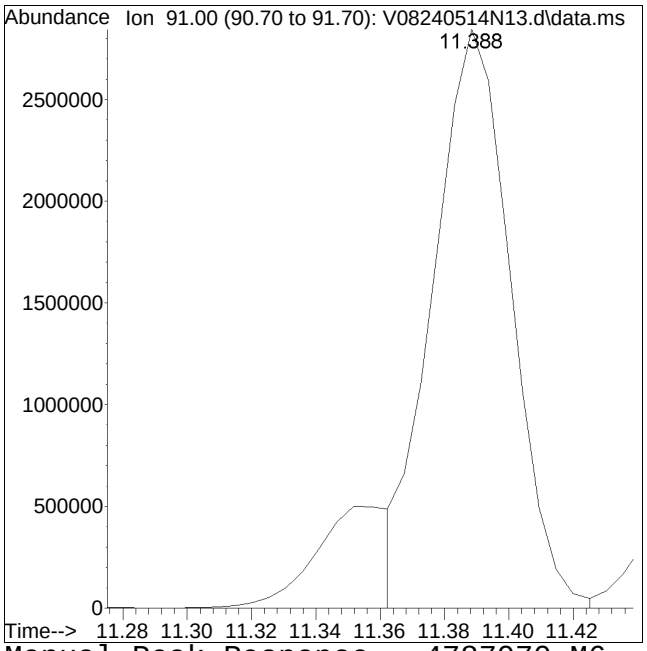
Data Path : K:\VOA108\2024\240514NICALQ
Data File : V08240514N13.d
Date Inj'd : 5/14/2024 11:33 pm
Sample : I8260STD200PPB

Method : V108_240514N_8260.m
Operator : VOA108:PID
Instrument : VOA 108
Quant Date : 5/15/2024 9:30 am

Compound #89: 2-Chlorotoluene



Original Peak Response = 5590905



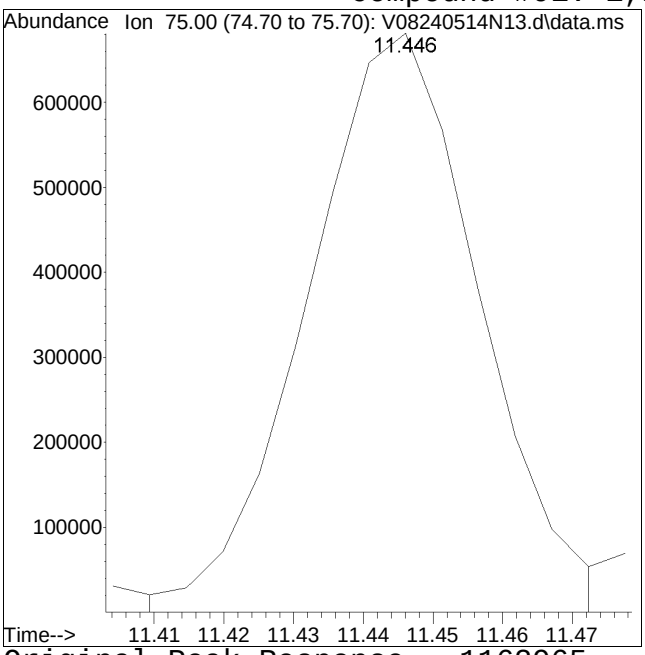
Manual Peak Response = 4787070 M6

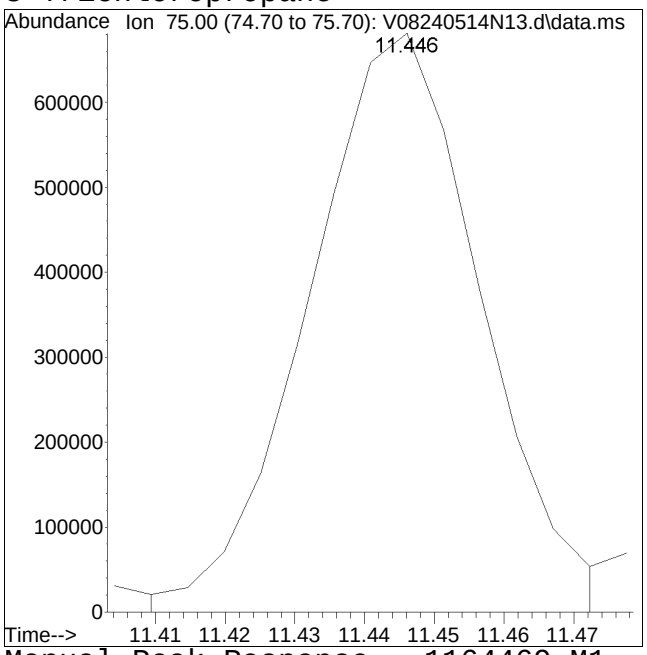
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

Data Path : K:\VOA108\2024\240514NICALQMethod : V108_240514N_8260.m
Data File : V08240514N13.d Operator : VOA108:PID
Date Inj'd : 5/14/2024 11:33 pm Instrument : VOA 108
Sample : I8260STD200PPB Quant Date : 5/15/2024 9:30 am

Compound #91: 1,2,3-Trichloropropane





Original Peak Response = 1162965 Manual Peak Response = 1164469 M1
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Evaluate Continuing Calibration Report

Data Path : K:\VOA108\2024\240514NICAL\
Data File : V08240514N18.d
Acq On : 15 May 2024 1:24 am
Operator : VOA108:PID
Sample : C8260STD10PPB
Misc : WG1921348,ICAL
ALS Vial : 18 Sample Multiplier: 1

Quant Time: May 15 09:36:42 2024
Quant Method : K:\VOA108\2024\240514NICAL\V108_240514N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed May 15 09:35:21 2024
Response via : Initial Calibration

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

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	Fluorobenzene	1.000	1.000	0.0	87	0.00
2	TP	Dichlorodifluoromethane	0.231	0.259	-12.1	98	0.00
3	TP	Chloromethane	0.237	0.299	-26.2#	110	0.00
4	TC	Vinyl chloride	0.253	0.297	-17.4	101	0.00
5	TP	Bromomethane	0.128	0.172	-34.4#	123	0.00
6	TP	Chloroethane	0.142	0.165	-16.2	100	0.00
7	TP	Trichlorofluoromethane	0.331	0.378	-14.2	99	0.00
8	TP	Ethyl ether	0.099	0.118	-19.2	106	0.00
10	TC	1,1-Dichloroethene	0.165	0.179	-8.5	94	0.00
11	TP	Carbon disulfide	0.562	0.411	26.9#	64	0.00
12	TP	Freon-113	0.170	0.180	-5.9	94	0.00
13	TP	Iodomethane	0.257	0.290	-12.8	101	0.00
14	TP	Acrolein	0.028	0.028	0.0	91	0.00
15	TP	Methylene chloride	0.197	0.215	-9.1	95	0.00
17	TP	Acetone	0.039	0.045	-15.4	99	0.00
18	TP	trans-1,2-Dichloroethene	0.187	0.205	-9.6	95	0.00
19	TP	Methyl acetate	0.106	0.116	-9.4	97	0.00
20	TP	Methyl tert-butyl ether	0.503	0.529	-5.2	93	0.00
21	TP	tert-Butyl alcohol	0.014	0.015	-7.1	95	0.00
22	TP	Diisopropyl ether	0.698	0.720	-3.2	92	0.00
23	TP	1,1-Dichloroethane	0.367	0.403	-9.8	96	0.00
24	TP	Halothane	0.143	0.159	-11.2	97	0.00
25	TP	Acrylonitrile	0.048	0.056	-16.7	108	0.00
26	TP	Ethyl tert-butyl ether	0.633	0.648	-2.4	91	0.00
27	TP	Vinyl acetate	0.436	0.394	9.6	101	0.00
28	TP	cis-1,2-Dichloroethene	0.209	0.227	-8.6	94	0.00
29	TP	2,2-Dichloropropane	0.313	0.325	-3.8	95	0.00
30	TP	Bromochloromethane	0.101	0.110	-8.9	93	0.00
31	TP	Cyclohexane	0.329	0.332	-0.9	91	0.00
32	TC	Chloroform	0.354	0.388	-9.6	95	0.00
33	TP	Ethyl acetate	0.160	0.177	-10.6	99	0.00
34	TP	Carbon tetrachloride	0.288	0.316	-9.7	94	0.00
35	TP	Tetrahydrofuran	0.044	0.050	-13.6	103	0.00
36	S	Dibromofluoromethane	0.274	0.273	0.4	85	0.00
37	TP	1,1,1-Trichloroethane	0.309	0.339	-9.7	95	0.00
39	TP	2-Butanone	0.068	0.077	-13.2	94	0.00
40	TP	1,1-Dichloropropene	0.255	0.281	-10.2	95	0.00
41	TP	Benzene	0.775	0.821	-5.9	94	0.00
42	TP	tert-Amyl methyl ether	0.542	0.560	-3.3	92	0.00

Evaluate Continuing Calibration Report

Data Path : K:\VOA108\2024\240514NICAL\
Data File : V08240514N18.d
Acq On : 15 May 2024 1:24 am
Operator : VOA108:PID
Sample : C8260STD10PPB
Misc : WG1921348,ICAL
ALS Vial : 18 Sample Multiplier: 1

Quant Time: May 15 09:36:42 2024
Quant Method : K:\VOA108\2024\240514NICAL\V108_240514N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed May 15 09:35:21 2024
Response via : Initial Calibration

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

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
43	S	1,2-Dichloroethane-d4	0.307	0.300	2.3	86	0.00
44	TP	1,2-Dichloroethane	0.260	0.286	-10.0	97	0.00
47	TP	Methyl cyclohexane	0.308	0.317	-2.9	93	0.00
48	TP	Trichloroethene	0.205	0.229	-11.7	95	0.00
50	TP	Dibromomethane	0.118	0.130	-10.2	98	0.00
51	TC	1,2-Dichloropropane	0.206	0.224	-8.7	95	0.00
53	TP	2-Chloroethyl vinyl ether	0.110	0.138	-25.5#	112	0.00
54	TP	Bromodichloromethane	0.283	0.293#	-3.5	93	0.00
57	TP	1,4-Dioxane	0.00117	0.00141#	-20.5#	106	0.00
58	TP	cis-1,3-Dichloropropene	0.328	0.355	-8.2	96	0.00
59	I	Chlorobenzene-d5	1.000	1.000	0.0	89	0.00
60	S	Toluene-d8	1.313	1.306	0.5	88	0.00
61	TC	Toluene	0.654	0.684	-4.6	94	0.00
62	TP	4-Methyl-2-pentanone	0.072	0.083	-15.3	104	0.00
63	TP	Tetrachloroethene	0.271	0.298	-10.0	97	0.00
65	TP	trans-1,3-Dichloropropene	0.391	0.418	-6.9	98	0.00
67	TP	Ethyl methacrylate	0.278	0.325	-16.9	105	0.00
68	TP	1,1,2-Trichloroethane	0.178	0.193#	-8.4	99	0.00
69	TP	Chlorodibromomethane	0.278	0.295	-6.1	96	0.00
70	TP	1,3-Dichloropropane	0.363	0.400	-10.2	97	0.00
71	TP	1,2-Dibromoethane	0.208	0.225	-8.2	95	0.00
72	TP	2-Hexanone	0.150	0.159	-6.0	102	0.00
73	TP	Chlorobenzene	0.726	0.799	-10.1	98	0.00
74	TC	Ethylbenzene	1.240	1.301	-4.9	93	0.00
75	TP	1,1,1,2-Tetrachloroethane	0.276	0.299	-8.3	96	0.00
76	TP	p/m Xylene	0.487	0.514	-5.5	95	0.00
77	TP	o Xylene	0.477	0.509	-6.7	95	0.00
78	TP	Styrene	0.802	0.849	-5.9	95	0.00
79	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	88	0.00
80	TP	Bromoform	0.333	0.360	-8.1	98	0.00
82	TP	Isopropylbenzene	2.479	2.486	-0.3	89	0.00
83	S	4-Bromofluorobenzene	0.952	0.956	-0.4	88	0.00
84	TP	Bromobenzene	0.625	0.689	-10.2	99	0.00
85	TP	n-Propylbenzene	2.929	3.110	-6.2	95	0.00
86	TP	1,4-Dichlorobutane	0.728	0.822	-12.9	104	0.00
87	TP	1,1,2,2-Tetrachloroethane	0.500	0.509	-1.8	95	0.00
88	TP	4-Ethyltoluene	2.405	2.624	-9.1	96	0.00

Evaluate Continuing Calibration Report

Data Path : K:\VOA108\2024\240514NICAL\
Data File : V08240514N18.d
Acq On : 15 May 2024 1:24 am
Operator : VOA108:PID
Sample : C8260STD10PPB
Misc : WG1921348,ICAL
ALS Vial : 18 Sample Multiplier: 1

Quant Time: May 15 09:36:42 2024
Quant Method : K:\VOA108\2024\240514NICAL\V108_240514N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed May 15 09:35:21 2024
Response via : Initial Calibration

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

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
89 TP	2-Chlorotoluene	1.742	1.893	-8.7	97	0.00
90 TP	1,3,5-Trimethylbenzene	2.133	2.246	-5.3	94	0.00
91 TP	1,2,3-Trichloropropane	0.418	0.440	-5.3	95	0.00
92 TP	trans-1,4-Dichloro-2-butene	0.155	0.166	-7.1	98	0.00
93 TP	4-Chlorotoluene	1.810	1.966	-8.6	96	0.00
94 TP	tert-Butylbenzene	1.818	1.960	-7.8	96	0.00
97 TP	1,2,4-Trimethylbenzene	2.102	2.288	-8.8	97	0.00
98 TP	sec-Butylbenzene	2.637	2.842	-7.8	95	0.00
99 TP	p-Isopropyltoluene	2.320	2.480	-6.9	95	0.00
100 TP	1,3-Dichlorobenzene	1.204	1.328	-10.3	99	0.00
101 TP	1,4-Dichlorobenzene	1.213	1.333	-9.9	99	0.00
102 TP	p-Diethylbenzene	1.366	1.404	-2.8	93	0.00
103 TP	n-Butylbenzene	2.011	2.224	-10.6	99	0.00
104 TP	1,2-Dichlorobenzene	1.134	1.259	-11.0	100	0.00
105 TP	1,2,4,5-Tetramethylbenzene	2.224	2.339	-5.2	94	0.00
106 TP	1,2-Dibromo-3-chloropropane	0.076	0.089	-17.1	99	0.00
107 TP	1,3,5-Trichlorobenzene	0.909	0.973	-7.0	97	0.00
108 TP	Hexachlorobutadiene	0.392	0.426	-8.7	96	0.00
109 TP	1,2,4-Trichlorobenzene	0.817	0.907	-11.0	100	0.00
110 TP	Naphthalene	1.626	1.813	-11.5	100	0.00
111 TP	1,2,3-Trichlorobenzene	0.736	0.829	-12.6	100	0.00

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

Quantitation Report (QT Reviewed)

Data Path : K:\VOA108\2024\240514NICAL\
Data File : V08240514N18.d
Acq On : 15 May 2024 1:24 am
Operator : VOA108:PID
Sample : C8260STD10PPB
Misc : WG1921348,ICAL
ALS Vial : 18 Sample Multiplier: 1

Quant Time: May 15 09:36:42 2024
Quant Method : K:\VOA108\2024\240514NICAL\V108_240514N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed May 15 09:35:21 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA108\2024\240514NICAL\V08240514N09.d
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	6.051	96	309840	10.000	ug/L	0.00
Standard Area 1 = 354232			Recovery = 87.47%			
59) Chlorobenzene-d5	9.574	117	231975	10.000	ug/L	0.00
Standard Area 1 = 261628			Recovery = 88.67%			
79) 1,4-Dichlorobenzene-d4	12.269	152	113354	10.000	ug/L	0.00
Standard Area 1 = 128716			Recovery = 88.07%			
System Monitoring Compounds						
36) Dibromofluoromethane	5.244	113	84518	9.948	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 99.48%			
43) 1,2-Dichloroethane-d4	5.768	65	92972	9.778	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 97.78%			
60) Toluene-d8	7.739	98	302884	9.947	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 99.47%			
83) 4-Bromofluorobenzene	11.063	95	108415	10.044	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 100.44%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.678	85	80161	11.209	ug/L	99
3) Chloromethane	1.872	50	92635	12.601	ug/L	99
4) Vinyl chloride	1.940	62	91893	11.727	ug/L	95
5) Bromomethane	2.255	94	53329	13.495	ug/L	99
6) Chloroethane	2.376	64	51151	11.648	ug/L	94
7) Trichlorofluoromethane	2.517	101	117241	11.437	ug/L	96
8) Ethyl ether	2.816	74	36511	11.928	ug/L	83
10) 1,1-Dichloroethene	3.005	96	55415	10.845	ug/L #	67
11) Carbon disulfide	3.031	76	127341	7.316	ug/L	94
12) Freon-113	3.042	101	55921	10.633	ug/L	97
13) Iodomethane	3.141	142	89809	11.293	ug/L	88
14) Acrolein	3.319	56	8548	9.870	ug/L	94
15) Methylene chloride	3.555	84	66562	10.916	ug/L	76
17) Acetone	3.597	43	13977	11.483	ug/L	92
18) trans-1,2-Dichloroethene	3.707	96	63624	10.988	ug/L	79
19) Methyl acetate	3.718	43	35794	10.922	ug/L #	87
20) Methyl tert-butyl ether	3.807	73	164039	10.518	ug/L	96
21) tert-Butyl alcohol	3.896	59	23169	54.021	ug/L #	70
22) Diisopropyl ether	4.169	45	222969	10.310	ug/L #	91
23) 1,1-Dichloroethane	4.289	63	124969	11.002	ug/L	99
24) Halothane	4.342	117	49223	11.108	ug/L	99

Data Path : K:\VOA108\2024\240514NICAL\
Data File : V08240514N18.d
Acq On : 15 May 2024 1:24 am
Operator : VOA108:PID
Sample : C8260STD10PPB
Misc : WG1921348,ICAL
ALS Vial : 18 Sample Multiplier: 1

Quant Time: May 15 09:36:42 2024
Quant Method : K:\VOA108\2024\240514NICAL\V108_240514N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed May 15 09:35:21 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA108\2024\240514NICAL\V08240514N09.d
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
25) Acrylonitrile	4.331	53	17448	11.820	ug/L	#	87
26) Ethyl tert-butyl ether	4.515	59	200744	10.241	ug/L		94
27) Vinyl acetate	4.520	43	122119	9.031	ug/L	#	96
28) cis-1,2-Dichloroethene	4.803	96	70395	10.850	ug/L	#	73
29) 2,2-Dichloropropane	4.908	77	100605	10.380	ug/L		100
30) Bromochloromethane	4.997	128	34013	10.847	ug/L	#	61
31) Cyclohexane	5.008	56	102919	10.112	ug/L	#	65
32) Chloroform	5.065	83	120187	10.960	ug/L		97
33) Ethyl acetate	5.175	43	54977	11.113	ug/L	#	92
34) Carbon tetrachloride	5.207	117	97808	10.958	ug/L		99
35) Tetrahydrofuran	5.212	42	15632M6	11.516	ug/L		
37) 1,1,1-Trichloroethane	5.270	97	104991	10.952	ug/L	#	92
39) 2-Butanone	5.359	43	23766M3	11.247	ug/L		
40) 1,1-Dichloropropene	5.390	75	86956	10.994	ug/L		95
41) Benzene	5.637	78	254363	10.587	ug/L		91
42) tert-Amyl methyl ether	5.747	73	173660	10.346	ug/L		88
44) 1,2-Dichloroethane	5.836	62	88572	10.986	ug/L		97
47) Methyl cyclohexane	6.224	83	98341	10.318	ug/L	#	72
48) Trichloroethene	6.229	95	70954	11.187	ug/L		94
50) Dibromomethane	6.664	93	40354	10.997	ug/L		96
51) 1,2-Dichloropropane	6.769	63	69268	10.861	ug/L		96
53) 2-Chloroethyl vinyl ether	7.461	63	42621	12.505	ug/L		96
54) Bromodichloromethane	6.837	83	90753	10.352	ug/L		100
57) 1,4-Dioxane	7.047	88	21875	603.041	ug/L	#	77
58) cis-1,3-Dichloropropene	7.530	75	110035	10.822	ug/L		94
61) Toluene	7.797	92	158574	10.460	ug/L		96
62) 4-Methyl-2-pentanone	8.227	58	19212	11.544	ug/L	#	80
63) Tetrachloroethene	8.243	166	69201	11.028	ug/L		91
65) trans-1,3-Dichloropropene	8.274	75	97037	10.698	ug/L		94
67) Ethyl methacrylate	8.463	69	75392	11.689	ug/L	#	49
68) 1,1,2-Trichloroethane	8.458	83	44706	10.836	ug/L		94
69) Chlorodibromomethane	8.667	129	68456	10.601	ug/L		97
70) 1,3-Dichloropropane	8.783	76	92685	11.002	ug/L		98
71) 1,2-Dibromoethane	8.945	107	52118	10.805	ug/L		97
72) 2-Hexanone	9.228	43	36918	10.600	ug/L		96
73) Chlorobenzene	9.595	112	185416	11.010	ug/L		97
74) Ethylbenzene	9.637	91	301794	10.495	ug/L		97
75) 1,1,1,2-Tetrachloroethane	9.679	131	69372	10.832	ug/L		96
76) p/m Xylene	9.826	106	238297	21.112	ug/L		96
77) o Xylene	10.361	106	236104	21.345	ug/L		89

Quantitation Report (QT Reviewed)

Data Path : K:\VOA108\2024\240514NICAL\
Data File : V08240514N18.d
Acq On : 15 May 2024 1:24 am
Operator : VOA108:PID
Sample : C8260STD10PPB
Misc : WG1921348,ICAL
ALS Vial : 18 Sample Multiplier: 1

Quant Time: May 15 09:36:42 2024
Quant Method : K:\VOA108\2024\240514NICAL\V108_240514N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed May 15 09:35:21 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA108\2024\240514NICAL\V08240514N09.d
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
78) Styrene	10.429	104	393814	21.179	ug/L		91
80) Bromoform	10.450	173	40852	10.821	ug/L		95
82) Isopropylbenzene	10.744	105	281828	10.029	ug/L		95
84) Bromobenzene	11.173	156	78117	11.035	ug/L		97
85) n-Propylbenzene	11.221	91	352487	10.617	ug/L		94
86) 1,4-Dichlorobutane	11.231	55	93195	11.287	ug/L		96
87) 1,1,2,2-Tetrachloroethane	11.299	83	57674	10.168	ug/L		99
88) 4-Ethyltoluene	11.346	105	297479	10.910	ug/L		94
89) 2-Chlorotoluene	11.383	91	214575M6	10.867	ug/L		
90) 1,3,5-Trimethylbenzene	11.446	105	254647	10.532	ug/L		91
91) 1,2,3-Trichloropropane	11.441	75	49897	10.523	ug/L		100
92) trans-1,4-Dichloro-2-b...	11.493	53	18851	10.750	ug/L	#	74
93) 4-Chlorotoluene	11.567	91	222908	10.866	ug/L		92
94) tert-Butylbenzene	11.787	119	222218	10.781	ug/L		97
97) 1,2,4-Trimethylbenzene	11.860	105	259343	10.886	ug/L		92
98) sec-Butylbenzene	11.976	105	322105	10.775	ug/L		96
99) p-Isopropyltoluene	12.128	119	281088	10.689	ug/L		95
100) 1,3-Dichlorobenzene	12.191	146	150575	11.037	ug/L		98
101) 1,4-Dichlorobenzene	12.280	146	151059	10.990	ug/L		98
102) p-Diethylbenzene	12.500	119	159113	10.276	ug/L		94
103) n-Butylbenzene	12.558	91	252123	11.060	ug/L		97
104) 1,2-Dichlorobenzene	12.704	146	142744	11.100	ug/L		97
105) 1,2,4,5-Tetramethylben...	13.292	119	265081	10.513	ug/L		97
106) 1,2-Dibromo-3-chloropr...	13.480	155	10087	11.636	ug/L		94
107) 1,3,5-Trichlorobenzene	13.512	180	110239	10.698	ug/L		95
108) Hexachlorobutadiene	14.089	225	48250	10.863	ug/L		96
109) 1,2,4-Trichlorobenzene	14.110	180	102858	11.101	ug/L		99
110) Naphthalene	14.398	128	205528	11.152	ug/L		100
111) 1,2,3-Trichlorobenzene	14.566	180	93947	11.264	ug/L		99

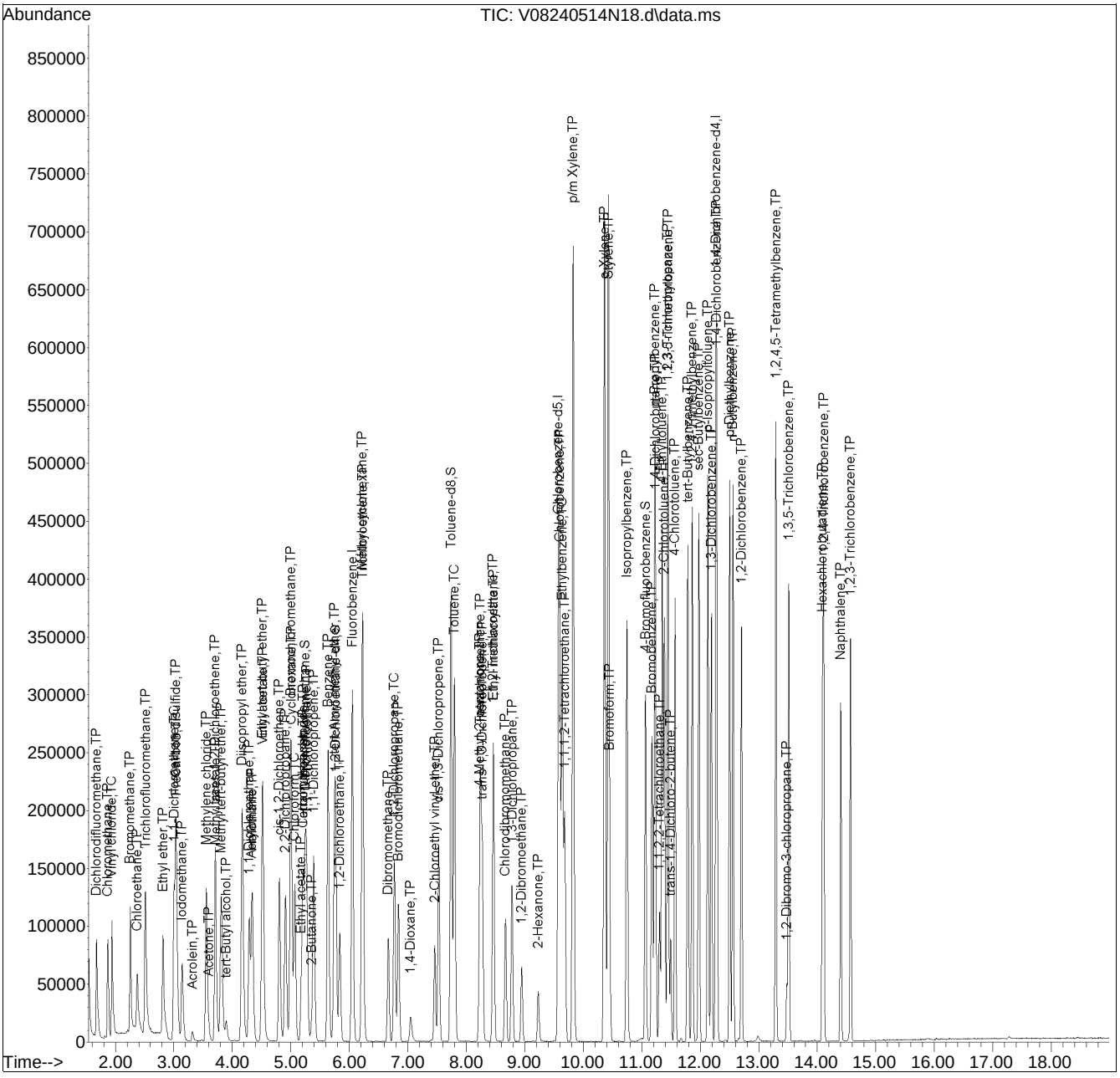
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : K:\VOA108\2024\240514NICAL\
Data File : V08240514N18.d
Acq On : 15 May 2024 1:24 am
Operator : VOA108:PID
Sample : C8260STD10PPB
Misc : WG1921348,ICAL
ALS Vial : 18 Sample Multiplier: 1

Quant Time: May 15 09:36:42 2024
Quant Method : K:\VOA108\2024\240514NICAL\V108_240514N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed May 15 09:35:21 2024
Response via : Initial Calibration

Sub List : 8260-Curve - Megamix plus Diox\V08240514N09.d•

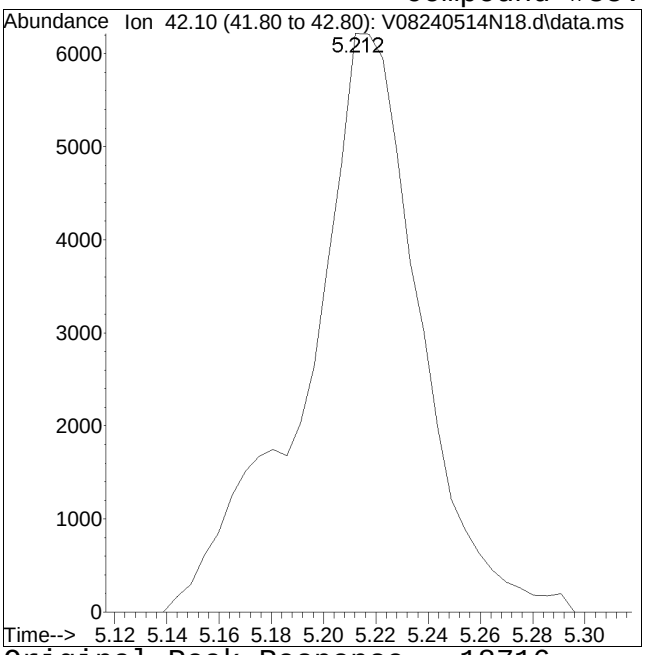


Manual Integration Report

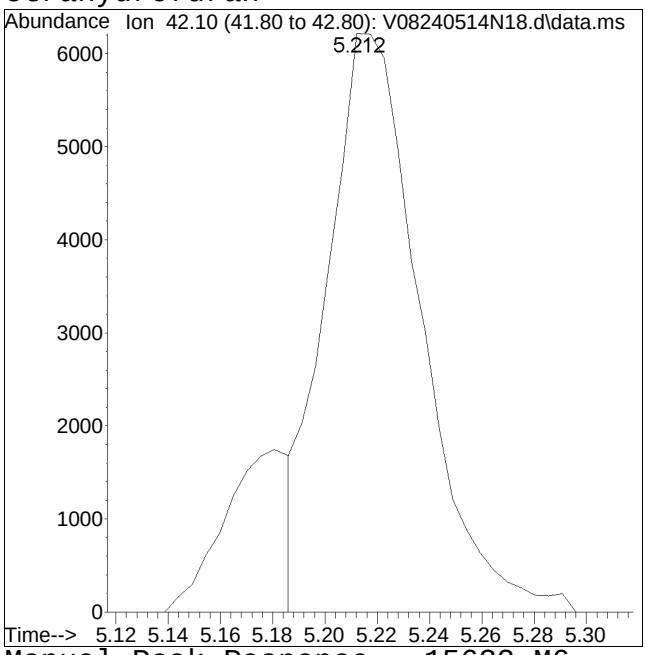
Data Path : K:\VOA108\2024\240514NICALQ
Data File : V08240514N18.d
Date Inj'd : 5/15/2024 1:24 am
Sample : C8260STD10PPB

Method : V108_240514N_8260.m
Operator : VOA108:PID
Instrument : VOA 108
Quant Date : 5/15/2024 9:35 am

Compound #35: Tetrahydrofuran



Original Peak Response = 18716



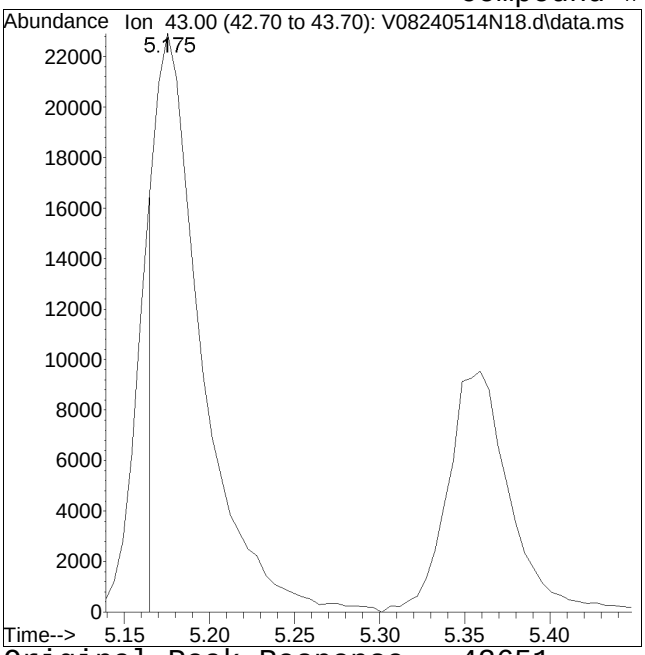
Manual Peak Response = 15632 M6

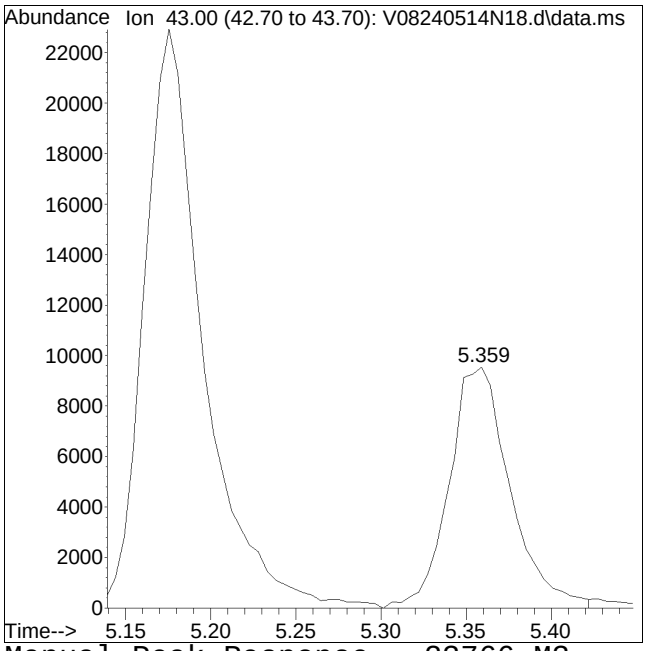
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

Data Path : K:\VOA108\2024\240514NICALQMethod : V108_240514N_8260.m
Data File : V08240514N18.d Operator : VOA108:PID
Date Inj'd : 5/15/2024 1:24 am Instrument : VOA 108
Sample : C8260STD10PPB Quant Date : 5/15/2024 9:35 am

Compound #39: 2-Butanone





Original Peak Response = 42651 Manual Peak Response = 23766 M3

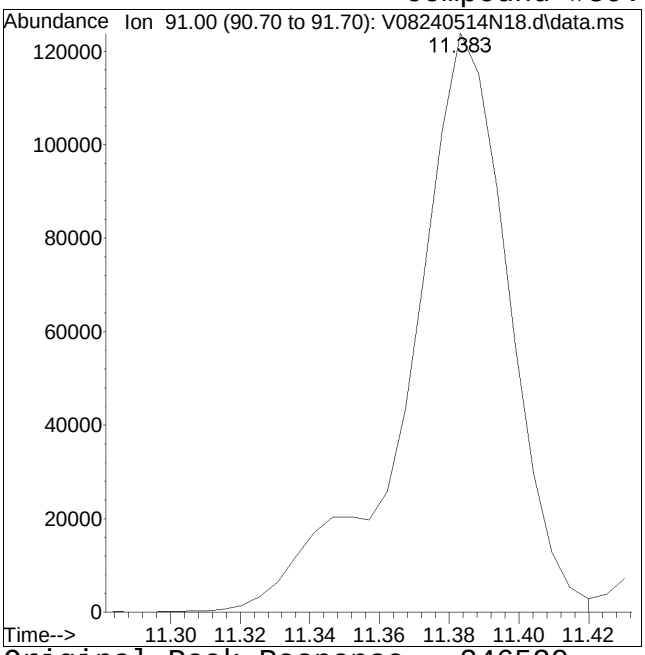
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

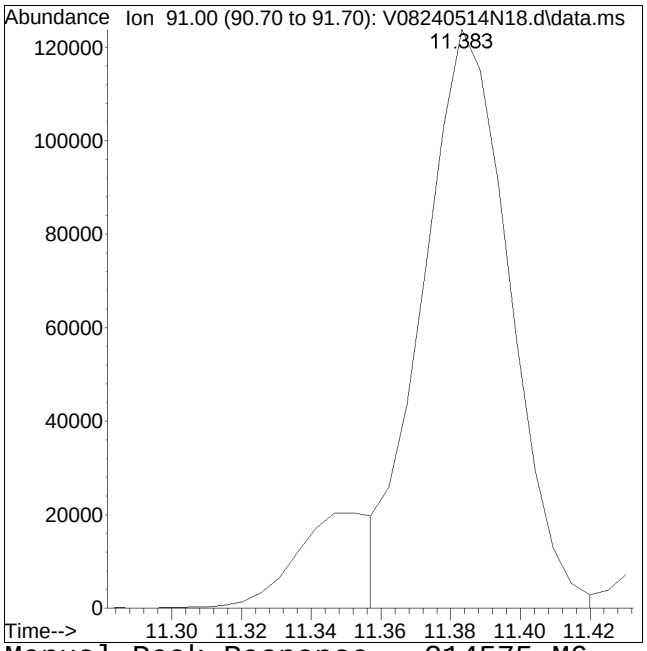
Data Path : K:\VOA108\2024\240514NICALQ
Data File : V08240514N18.d
Date Inj'd : 5/15/2024 1:24 am
Sample : C8260STD10PPB

Method : V108_240514N_8260.m
Operator : VOA108:PID
Instrument : VOA 108
Quant Date : 5/15/2024 9:35 am

Compound #89: 2-Chlorotoluene



Original Peak Response = 246520



Manual Peak Response = 214575 M6

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

Continuing Calibration

Calibration Verification Summary
Form 7
Volatiles

Client	: Alpha Geoscience	**Lab Number**	: L2434679		
Project Name	: RANCO MINE	**Project Number**	: 12123		
Instrument ID	: VOA108	**Calibration Date**	: 06/23/24 11:28		
Lab File ID	: V08240623A01	**Init. Calib. Date(s)**	: 05/14/24	05/14/24	
Sample No	: WG1938519-2	**Init. Calib. Times**	: 19:49	23:33	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
Fluorobenzene	1	1	-	0	20	115	0
Dichlorodifluoromethane	0.231	0.222	-	3.9	20	111	0
Chloromethane	0.237	0.235	-	0.8	20	113	0
Vinyl chloride	0.253	0.17	-	32.8*	20	76	0
Bromomethane	0.128	0.023	-	82*	20	21	0
Chloroethane	0.142	0.08	-	43.7*	20	63	0
Trichlorofluoromethane	0.331	0.242	-	26.9*	20	83	0
1,1-Dichloroethene	0.165	0.155	-	6.1	20	107	0
Carbon disulfide	0.562	0.517	-	8	20	105	0
Freon-113	0.17	0.169	-	0.6	20	115	0
Methylene chloride	0.197	0.189	-	4.1	20	110	0
Acetone	0.039	0.04	-	-2.6	20	114	0
trans-1,2-Dichloroethene	0.187	0.178	-	4.8	20	108	0
Methyl acetate	0.106	0.085	-	19.8	20	94	0
Methyl tert-butyl ether	0.503	0.421	-	16.3	20	97	-.01
1,1-Dichloroethane	0.367	0.33	-	10.1	20	103	0
cis-1,2-Dichloroethene	0.209	0.198*	-	5.3	20	108	0
Bromochloromethane	0.101	0.096*	-	5	20	107	0
Cyclohexane	0.329	0.258	-	21.6*	20	93	0
Chloroform	0.354	0.335	-	5.4	20	108	0
Carbon tetrachloride	0.288	0.313	-	-8.7	20	122	0
Dibromofluoromethane	0.274	0.296	-	-8	20	121	0
1,1,1-Trichloroethane	0.309	0.32	-	-3.6	20	118	0
2-Butanone	0.068	0.054	-	20.6*	20	87	0
Benzene	0.775	0.67	-	13.5	20	100	0
1,2-Dichloroethane-d4	0.307	0.315	-	-2.6	20	118	0
1,2-Dichloroethane	0.26	0.232	-	10.8	20	103	0
Methyl cyclohexane	0.308	0.282	-	8.4	20	108	0
Trichloroethene	0.205	0.198*	-	3.4	20	108	0
1,2-Dichloropropane	0.206	0.176	-	14.6	20	98	0
Bromodichloromethane	0.283	0.264*	-	6.7	20	110	0
1,4-Dioxane	0.00117	0.00123*	-	-5.1	20	121	0
cis-1,3-Dichloropropene	0.328	0.292*	-	11	20	104	0
Chlorobenzene-d5	1	1	-	0	20	116	0
Toluene-d8	1.313	1.328	-	-1.1	20	117	0
Toluene	0.654	0.591	-	9.6	20	106	0
4-Methyl-2-pentanone	0.072	0.053	-	26.4*	20	87	0
Tetrachloroethene	0.271	0.262	-	3.3	20	111	0
trans-1,3-Dichloropropene	0.391	0.352	-	10	20	107	0
1,1,2-Trichloroethane	0.178	0.156*	-	12.4	20	104	0
Chlorodibromomethane	0.278	0.269	-	3.2	20	114	0
1,2-Dibromoethane	0.208	0.197*	-	5.3	20	109	0
2-Hexanone	0.15	0.106	-	29.3*	20	88	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Volatiles

Client	: Alpha Geoscience		**Lab Number**	: L2434679	
Project Name	: RANCO MINE		**Project Number**	: 12123	
Instrument ID	: VOA108		**Calibration Date**	: 06/23/24 11:28	
Lab File ID	: V08240623A01		**Init. Calib. Date(s)**	: 05/14/24	05/14/24
Sample No	: WG1938519-2		**Init. Calib. Times**	: 19:49	23:33
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
Chlorobenzene	0.726	0.708	-	2.5	20	113	0
Ethylbenzene	1.24	1.158	-	6.6	20	108	0
p/m Xylene	0.487	0.444	-	8.8	20	107	0
o Xylene	0.477	0.424	-	11.1	20	104	0
Styrene	0.802	0.703	-	12.3	20	102	0
1,4-Dichlorobenzene-d4	1	1	-	0	20	111	0
Bromoform	0.333	0.326	-	2.1	20	112	0
Isopropylbenzene	2.479	2.461	-	0.7	20	110	0
4-Bromofluorobenzene	0.952	0.975	-	-2.4	20	113	0
n-Propylbenzene	2.929	2.837	-	3.1	20	108	0
1,1,2,2-Tetrachloroethane	0.5	0.469	-	6.2	20	110	0
1,3,5-Trimethylbenzene	2.133	2.106	-	1.3	20	111	0
tert-Butylbenzene	1.818	1.836	-	-1	20	112	0
1,2,4-Trimethylbenzene	2.102	2.071	-	1.5	20	111	0
sec-Butylbenzene	2.637	2.624	-	0.5	20	110	0
p-Isopropyltoluene	2.32	2.322	-	-0.1	20	112	0
1,3-Dichlorobenzene	1.204	1.184	-	1.7	20	111	0
1,4-Dichlorobenzene	1.213	1.196	-	1.4	20	112	0
n-Butylbenzene	2.011	1.982	-	1.4	20	111	0
1,2-Dichlorobenzene	1.134	1.12	-	1.2	20	111	0
1,2-Dibromo-3-chloropropan	0.076	0.073	-	3.9	20	102	0
1,2,4-Trichlorobenzene	0.817	0.812	-	0.6	20	113	0
Naphthalene	1.626	1.615	-	0.7	20	112	0
1,2,3-Trichlorobenzene	0.736	0.709	-	3.7	20	108	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Volatiles

Client	: Alpha Geoscience	**Lab Number**	: L2434679		
Project Name	: RANCO MINE	**Project Number**	: 12123		
Instrument ID	: GONZO	**Calibration Date**	: 06/24/24 08:02		
Lab File ID	: VG240624A01	**Init. Calib. Date(s)**	: 05/09/24	05/09/24	
Sample No	: WG1938990-2	**Init. Calib. Times**	: 17:50	21:24	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
Fluorobenzene	1	1	-	0	20	134	0
Dichlorodifluoromethane	0.254	0.263	-	-3.5	20	136	0
Chloromethane	0.25	0.249	-	0.4	20	133	0
Vinyl chloride	0.252	0.202	-	19.8	20	101	0
Bromomethane	10	2.015	-	79.8*	20	30	0
Chloroethane	0.174	0.088	-	49.4*	20	60	0
Trichlorofluoromethane	0.349	0.33	-	5.4	20	131	0
Ethyl ether	0.097	0.088	-	9.3	20	125	0
1,1-Dichloroethene	0.177	0.183	-	-3.4	20	139	0
Carbon disulfide	0.56	0.603	-	-7.7	20	150	0
Freon-113	0.201	0.209	-	-4	20	148	0
Acrolein	0.03	0.029	-	3.3	20	129	0
Methylene chloride	0.215	0.203	-	5.6	20	133	0
Acetone	0.055	0.043	-	21.8*	20	115	0
trans-1,2-Dichloroethene	0.2	0.198	-	1	20	139	0
Methyl acetate	0.115	0.103	-	10.4	20	139	0
Methyl tert-butyl ether	0.523	0.461	-	11.9	20	126	0
tert-Butyl alcohol	0.016	0.014	-	12.5	20	125	0
Diisopropyl ether	0.7	0.728	-	-4	20	149	0
1,1-Dichloroethane	0.398	0.417	-	-4.8	20	144	0
Halothane	0.158	0.163	-	-3.2	20	140	0
Acrylonitrile	0.054	0.057	-	-5.6	20	143	0
Ethyl tert-butyl ether	0.658	0.644	-	2.1	20	144	0
Vinyl acetate	0.26	0.432	-	-66.2*	20	222	0
cis-1,2-Dichloroethene	0.232	0.223	-	3.9	20	139	0
2,2-Dichloropropane	0.295	0.331	-	-12.2	20	156	0
Bromochloromethane	0.105	0.094*	-	10.5	20	123	0
Cyclohexane	10	11.745	-	-17.4	20	187	0
Chloroform	0.384	0.363	-	5.5	20	132	0
Ethyl acetate	0.165	0.162	-	1.8	20	136	0
Carbon tetrachloride	0.299	0.315	-	-5.4	20	142	0
Tetrahydrofuran	0.049	0.049	-	0	20	128	0
Dibromofluoromethane	0.256	0.247	-	3.5	20	131	0
1,1,1-Trichloroethane	0.329	0.343	-	-4.3	20	139	0
2-Butanone	0.073	0.07	-	4.1	20	121	0
1,1-Dichloropropene	0.27	0.305	-	-13	20	152	0
Benzene	0.846	0.865	-	-2.2	20	139	0
tert-Amyl methyl ether	0.542	0.483	-	10.9	20	131	0
1,2-Dichloroethane-d4	0.307	0.291	-	5.2	20	125	0
1,2-Dichloroethane	0.305	0.267	-	12.5	20	124	0
Methyl cyclohexane	10	11.023	-	-10.2	20	188	0
Trichloroethene	0.254	0.22	-	13.4	20	125	0
Dibromomethane	0.127	0.108	-	15	20	121	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Volatiles

Client	: Alpha Geoscience	**Lab Number**	: L2434679		
Project Name	: RANCO MINE	**Project Number**	: 12123		
Instrument ID	: GONZO	**Calibration Date**	: 06/24/24 08:02		
Lab File ID	: VG240624A01	**Init. Calib. Date(s)**	: 05/09/24	05/09/24	
Sample No	: WG1938990-2	**Init. Calib. Times**	: 17:50	21:24	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
1,2-Dichloropropane	0.218	0.23	-	-5.5	20	143	0
Bromodichloromethane	0.298	0.272*	-	8.7	20	128	0
1,4-Dioxane	0.00188	0.00156*	-	17	20	121	0
cis-1,3-Dichloropropene	0.328	0.317	-	3.4	20	140	0
Chlorobenzene-d5	1	1	-	0	20	129	0
Toluene-d8	1.23	1.277	-	-3.8	20	129	0
Toluene	0.68	0.7	-	-2.9	20	135	0
4-Methyl-2-pentanone	0.076	0.079	-	-3.9	20	144	0
Tetrachloroethene	0.265	0.276	-	-4.2	20	138	0
trans-1,3-Dichloropropene	0.368	0.367	-	0.3	20	133	0
Ethyl methacrylate	0.263	0.24	-	8.7	20	132	0
1,1,2-Trichloroethane	0.191	0.173*	-	9.4	20	126	0
Chlorodibromomethane	0.283	0.255	-	9.9	20	121	0
1,3-Dichloropropane	0.369	0.36	-	2.4	20	128	0
1,2-Dibromoethane	0.218	0.202	-	7.3	20	119	0
2-Hexanone	0.127	0.124	-	2.4	20	134	0
Chlorobenzene	0.768	0.735	-	4.3	20	128	0
Ethylbenzene	1.324	1.314	-	0.8	20	139	0
1,1,1,2-Tetrachloroethane	0.278	0.257	-	7.6	20	125	0
p/m Xylene	20	18.387	-	8.1	20	136	0
o Xylene	20	17.474	-	12.6	20	131	0
Styrene	20	18.246	-	8.8	20	127	0
1,4-Dichlorobenzene-d4	1	1	-	0	20	116	0
Bromoform	0.326	0.277	-	15	20	108	0
Isopropylbenzene	10	10.213	-	-2.1	20	144	0
4-Bromofluorobenzene	0.804	0.961	-	-19.5	20	138	0
Bromobenzene	0.585	0.581	-	0.7	20	121	0
n-Propylbenzene	2.474	2.92	-	-18	20	146	0
1,4-Dichlorobutane	0.694	0.762	-	-9.8	20	131	0
1,1,2,2-Tetrachloroethane	0.44	0.483	-	-9.8	20	128	0
4-Ethyltoluene	2.201	2.392	-	-8.7	20	142	0
2-Chlorotoluene	1.577	1.762	-	-11.7	20	135	0
1,3,5-Trimethylbenzene	1.898	2.051	-	-8.1	20	134	0
1,2,3-Trichloropropane	0.418	0.397	-	5	20	116	0
trans-1,4-Dichloro-2-buten	0.145	0.103	-	29*	20	86	0
4-Chlorotoluene	1.664	1.789	-	-7.5	20	130	0
tert-Butylbenzene	10	10.456	-	-4.6	20	144	0
1,2,4-Trimethylbenzene	1.851	1.976	-	-6.8	20	132	0
sec-Butylbenzene	10	11.379	-	-13.8	20	150	0
p-Isopropyltoluene	10	11.072	-	-10.7	20	144	0
1,3-Dichlorobenzene	1.106	1.08	-	2.4	20	119	0
1,4-Dichlorobenzene	1.144	1.105	-	3.4	20	119	0
p-Diethylbenzene	1.105	1.16	-	-5	20	142	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Volatiles

Client	: Alpha Geoscience		**Lab Number**	: L2434679	
Project Name	: RANCO MINE		**Project Number**	: 12123	
Instrument ID	: GONZO		**Calibration Date**	: 06/24/24 08:02	
Lab File ID	: VG240624A01		**Init. Calib. Date(s)**	: 05/09/24	05/09/24
Sample No	: WG1938990-2		**Init. Calib. Times**	: 17:50	21:24
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
n-Butylbenzene	10	9.98	-	0.2	20	143	0
1,2-Dichlorobenzene	1.039	0.985	-	5.2	20	114	0
1,2,4,5-Tetramethylbenzene	1.583	1.411	-	10.9	20	122	0
1,2-Dibromo-3-chloropropan	0.079	0.066	-	16.5	20	101	0
1,3,5-Trichlorobenzene	0.648	0.656	-	-1.2	20	125	0
Hexachlorobutadiene	0.178	0.208	-	-16.9	20	155	0
1,2,4-Trichlorobenzene	0.545	0.493	-	9.5	20	110	0
Naphthalene	1.133	0.836	-	26.2*	20	87	0
1,2,3-Trichlorobenzene	0.448	0.371*	-	17.2	20	99	0

*** Value outside of QC limits.**

Evaluate Continuing Calibration Report

Data Path : K:\VOA108\2024\240623A\
Data File : V08240623A01.d
Acq On : 23 Jun 2024 11:28 am
Operator : VOA108:PID
Sample : WG1938519-2
Misc : WG1938519,ICAL21127
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 23 12:05:55 2024
Quant Method : K:\VOA108\2024\240623A\V108_240514N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed May 15 09:35:21 2024
Response via : Initial Calibration

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

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	Fluorobenzene	1.000	1.000	0.0	115	0.00
2	TP	Dichlorodifluoromethane	0.231	0.222	3.9	111	0.00
3	TP	Chloromethane	0.237	0.235	0.8	113	0.00
4	TC	Vinyl chloride	0.253	0.170	32.8#	76	0.00
5	TP	Bromomethane	0.128	0.023	82.0#	21#	0.00
6	TP	Chloroethane	0.142	0.080	43.7#	63	0.00
7	TP	Trichlorofluoromethane	0.331	0.242	26.9#	83	0.00
10	TC	1,1-Dichloroethene	0.165	0.155	6.1	107	0.00
11	TP	Carbon disulfide	0.562	0.517	8.0	105	0.00
12	TP	Freon-113	0.170	0.169	0.6	115	0.00
15	TP	Methylene chloride	0.197	0.189	4.1	110	0.00
17	TP	Acetone	0.039	0.040	-2.6	114	0.00
18	TP	trans-1,2-Dichloroethene	0.187	0.178	4.8	108	0.00
19	TP	Methyl acetate	0.106	0.085	19.8	94	0.00
20	TP	Methyl tert-butyl ether	0.503	0.421	16.3	97	-0.01
23	TP	1,1-Dichloroethane	0.367	0.330	10.1	103	0.00
28	TP	cis-1,2-Dichloroethene	0.209	0.198#	5.3	108	0.00
30	TP	Bromochloromethane	0.101	0.096#	5.0	107	0.00
31	TP	Cyclohexane	0.329	0.258	21.6#	93	0.00
32	TC	Chloroform	0.354	0.335	5.4	108	0.00
34	TP	Carbon tetrachloride	0.288	0.313	-8.7	122	0.00
36	S	Dibromofluoromethane	0.274	0.296	-8.0	121	0.00
37	TP	1,1,1-Trichloroethane	0.309	0.320	-3.6	118	0.00
39	TP	2-Butanone	0.068	0.054	20.6#	87	0.00
41	TP	Benzene	0.775	0.670	13.5	100	0.00
43	S	1,2-Dichloroethane-d4	0.307	0.315	-2.6	118	0.00
44	TP	1,2-Dichloroethane	0.260	0.232	10.8	103	0.00
47	TP	Methyl cyclohexane	0.308	0.282	8.4	108	0.00
48	TP	Trichloroethene	0.205	0.198#	3.4	108	0.00
51	TC	1,2-Dichloropropane	0.206	0.176	14.6	98	0.00
54	TP	Bromodichloromethane	0.283	0.264#	6.7	110	0.00
57	TP	1,4-Dioxane	0.00117	0.00123#	-5.1	121	0.00
58	TP	cis-1,3-Dichloropropene	0.328	0.292#	11.0	104	0.00
59	I	Chlorobenzene-d5	1.000	1.000	0.0	116	0.00
60	S	Toluene-d8	1.313	1.328	-1.1	117	0.00
61	TC	Toluene	0.654	0.591	9.6	106	0.00
62	TP	4-Methyl-2-pentanone	0.072	0.053	26.4#	87	0.00
63	TP	Tetrachloroethene	0.271	0.262	3.3	111	0.00

Evaluate Continuing Calibration Report

Data Path : K:\VOA108\2024\240623A\
Data File : V08240623A01.d
Acq On : 23 Jun 2024 11:28 am
Operator : VOA108:PID
Sample : WG1938519-2
Misc : WG1938519,ICAL21127
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 23 12:05:55 2024
Quant Method : K:\VOA108\2024\240623A\V108_240514N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed May 15 09:35:21 2024
Response via : Initial Calibration

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

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
65	TP	trans-1,3-Dichloropropene	0.391	0.352	10.0	107	0.00
68	TP	1,1,2-Trichloroethane	0.178	0.156#	12.4	104	0.00
69	TP	Chlorodibromomethane	0.278	0.269	3.2	114	0.00
71	TP	1,2-Dibromoethane	0.208	0.197#	5.3	109	0.00
72	TP	2-Hexanone	0.150	0.106	29.3#	88	0.00
73	TP	Chlorobenzene	0.726	0.708	2.5	113	0.00
74	TC	Ethylbenzene	1.240	1.158	6.6	108	0.00
76	TP	p/m Xylene	0.487	0.444	8.8	107	0.00
77	TP	o Xylene	0.477	0.424	11.1	104	0.00
78	TP	Styrene	0.802	0.703	12.3	102	0.00
79	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	111	0.00
80	TP	Bromoform	0.333	0.326	2.1	112	0.00
82	TP	Isopropylbenzene	2.479	2.461	0.7	110	0.00
83	S	4-Bromofluorobenzene	0.952	0.975	-2.4	113	0.00
85	TP	n-Propylbenzene	2.929	2.837	3.1	108	0.00
87	TP	1,1,2,2-Tetrachloroethane	0.500	0.469	6.2	110	0.00
90	TP	1,3,5-Trimethylbenzene	2.133	2.106	1.3	111	0.00
94	TP	tert-Butylbenzene	1.818	1.836	-1.0	112	0.00
97	TP	1,2,4-Trimethylbenzene	2.102	2.071	1.5	111	0.00
98	TP	sec-Butylbenzene	2.637	2.624	0.5	110	0.00
99	TP	p-Isopropyltoluene	2.320	2.322	-0.1	112	0.00
100	TP	1,3-Dichlorobenzene	1.204	1.184	1.7	111	0.00
101	TP	1,4-Dichlorobenzene	1.213	1.196	1.4	112	0.00
103	TP	n-Butylbenzene	2.011	1.982	1.4	111	0.00
104	TP	1,2-Dichlorobenzene	1.134	1.120	1.2	111	0.00
106	TP	1,2-Dibromo-3-chloropropane	0.076	0.073	3.9	102	0.00
109	TP	1,2,4-Trichlorobenzene	0.817	0.812	0.6	113	0.00
110	TP	Naphthalene	1.626	1.615	0.7	112	0.00
111	TP	1,2,3-Trichlorobenzene	0.736	0.709	3.7	108	0.00

* Evaluation of CC level amount vs concentration.
(#) = Out of Range SPCC's out = 8 CCC's out = 1

Quantitation Report (QT Reviewed)

Data Path : K:\VOA108\2024\240623A\
Data File : V08240623A01.d
Acq On : 23 Jun 2024 11:28 am
Operator : VOA108:PID
Sample : WG1938519-2
Misc : WG1938519,ICAL21127
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 23 12:05:55 2024
Quant Method : K:\VOA108\2024\240623A\V108_240514N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed May 15 09:35:21 2024
Response via : Initial Calibration

Sub List : 8260-NY_R2 - NYSOM01.2 + NYSTARS

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Fluorobenzene	6.046	96	406145	10.000	ug/L		0.00
59) Chlorobenzene-d5	9.569	117	302664	10.000	ug/L		0.00
79) 1,4-Dichlorobenzene-d4	12.264	152	142503	10.000	ug/L		0.00
System Monitoring Compounds							
36) Dibromofluoromethane	5.238	113	120152	10.789	ug/L		0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 107.89%				
43) 1,2-Dichloroethane-d4	5.763	65	127985	10.269	ug/L		0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 102.69%				
60) Toluene-d8	7.734	98	402059	10.120	ug/L		0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 101.20%				
83) 4-Bromofluorobenzene	11.058	95	138890	10.236	ug/L		0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 102.36%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.678	85	90343	9.638	ug/L		99
3) Chloromethane	1.867	50	95552	9.915	ug/L		98
4) Vinyl chloride	1.946	62	69072	6.725	ug/L		93
5) Bromomethane	2.255	94	9307	1.797	ug/L		96
6) Chloroethane	2.371	64	32329	5.616	ug/L		95
7) Trichlorofluoromethane	2.512	101	98471	7.328	ug/L		98
10) 1,1-Dichloroethene	3.000	96	62767	9.371	ug/L	#	65
11) Carbon disulfide	3.031	76	210068	9.208	ug/L		96
12) Freon-113	3.036	101	68573	9.947	ug/L		100
15) Methylene chloride	3.550	84	76960	9.629	ug/L		73
17) Acetone	3.592	43	16078	10.077	ug/L	#	87
18) trans-1,2-Dichloroethene	3.702	96	72228	9.517	ug/L		74
19) Methyl acetate	3.708	43	34545	8.041	ug/L	#	85
20) Methyl tert-butyl ether	3.802	73	171005	8.364	ug/L		94
23) 1,1-Dichloroethane	4.284	63	134068	9.004	ug/L		98
28) cis-1,2-Dichloroethene	4.803	96	80544	9.470	ug/L	#	68
30) Bromochloromethane	4.992	128	38994	9.487	ug/L	#	54
31) Cyclohexane	5.003	56	104946	7.866	ug/L	#	46
32) Chloroform	5.060	83	136076	9.467	ug/L		96
34) Carbon tetrachloride	5.202	117	127197	10.872	ug/L		99
37) 1,1,1-Trichloroethane	5.265	97	130154	10.358	ug/L	#	90
39) 2-Butanone	5.354	43	22034M3	7.955	ug/L		
41) Benzene	5.632	78	271944	8.635	ug/L		92
44) 1,2-Dichloroethane	5.831	62	94114	8.905	ug/L		95
47) Methyl cyclohexane	6.219	83	114553	9.169	ug/L	#	67

Quantitation Report (QT Reviewed)

Data Path : K:\VOA108\2024\240623A\
Data File : V08240623A01.d
Acq On : 23 Jun 2024 11:28 am
Operator : VOA108:PID
Sample : WG1938519-2
Misc : WG1938519,ICAL21127
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 23 12:05:55 2024
Quant Method : K:\VOA108\2024\240623A\V108_240514N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed May 15 09:35:21 2024
Response via : Initial Calibration

Sub List : 8260-NY_R2 - NYSOM01.2 + NYSTARS

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
48) Trichloroethene	6.224	95	80412	9.672	ug/L		95
51) 1,2-Dichloropropane	6.764	63	71371	8.537	ug/L		95
54) Bromodichloromethane	6.832	83	107331	9.340	ug/L	#	99
57) 1,4-Dioxane	7.042	88	24979	525.328	ug/L	#	72
58) cis-1,3-Dichloropropene	7.524	75	118481	8.890	ug/L		99
61) Toluene	7.792	92	178801	9.040	ug/L		98
62) 4-Methyl-2-pentanone	8.222	58	16156	7.440	ug/L	#	67
63) Tetrachloroethene	8.237	166	79180	9.671	ug/L		95
65) trans-1,3-Dichloropropene	8.269	75	106467	8.997	ug/L		94
68) 1,1,2-Trichloroethane	8.452	83	47184	8.765	ug/L		90
69) Chlorodibromomethane	8.667	129	81380	9.659	ug/L		99
71) 1,2-Dibromoethane	8.940	107	59616	9.473	ug/L		98
72) 2-Hexanone	9.223	43	31964	7.034	ug/L	#	91
73) Chlorobenzene	9.590	112	214209	9.749	ug/L		99
74) Ethylbenzene	9.632	91	350495	9.341	ug/L		98
76) p/m Xylene	9.821	106	268852	18.256	ug/L		98
77) o Xylene	10.356	106	256376	17.764	ug/L		94
78) Styrene	10.424	104	425277	17.530	ug/L		89
80) Bromoform	10.445	173	46405	9.778	ug/L		94
82) Isopropylbenzene	10.738	105	350637	9.926	ug/L		96
85) n-Propylbenzene	11.216	91	404240	9.685	ug/L		95
87) 1,1,2,2-Tetrachloroethane	11.299	83	66886	9.380	ug/L		97
90) 1,3,5-Trimethylbenzene	11.441	105	300059	9.871	ug/L		92
94) tert-Butylbenzene	11.782	119	261619	10.096	ug/L		96
97) 1,2,4-Trimethylbenzene	11.855	105	295125	9.854	ug/L		94
98) sec-Butylbenzene	11.971	105	373921	9.950	ug/L		96
99) p-Isopropyltoluene	12.123	119	330917	10.010	ug/L		96
100) 1,3-Dichlorobenzene	12.185	146	168721	9.838	ug/L		99
101) 1,4-Dichlorobenzene	12.280	146	170407	9.861	ug/L		98
103) n-Butylbenzene	12.553	91	282434	9.855	ug/L		97
104) 1,2-Dichlorobenzene	12.699	146	159608	9.873	ug/L		99
106) 1,2-Dibromo-3-chloropr...	13.475	155	10411	9.553	ug/L		86
109) 1,2,4-Trichlorobenzene	14.104	180	115727	9.935	ug/L		97
110) Naphthalene	14.398	128	230080	9.930	ug/L		100
111) 1,2,3-Trichlorobenzene	14.566	180	101010	9.633	ug/L		99

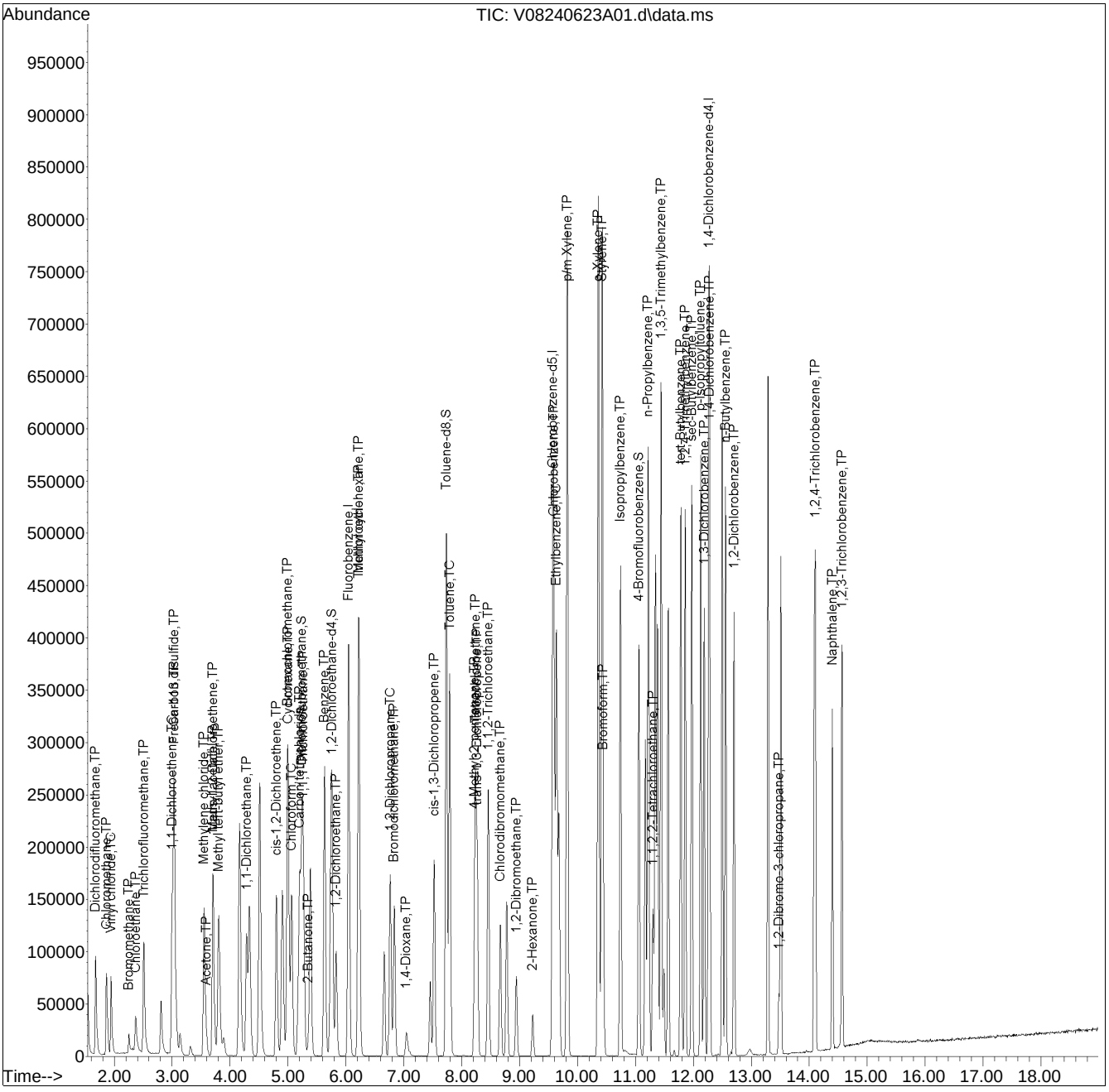
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : K:\VOA108\2024\240623A\
Data File : V08240623A01.d
Acq On : 23 Jun 2024 11:28 am
Operator : VOA108:PID
Sample : WG1938519-2
Misc : WG1938519,ICAL21127
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 23 12:05:55 2024
Quant Method : K:\VOA108\2024\240623A\V108_240514N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed May 15 09:35:21 2024
Response via : Initial Calibration

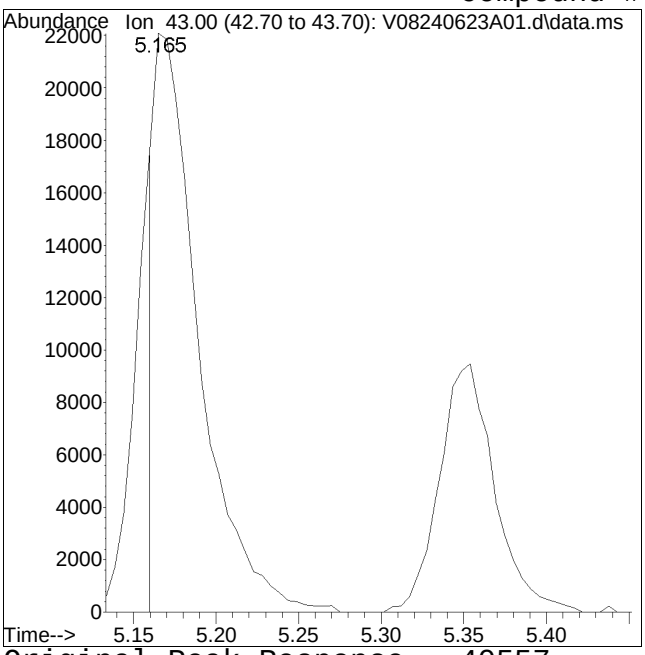
Sub List : 8260-NY_R2 - NYSOM01.2 + NYSTARS

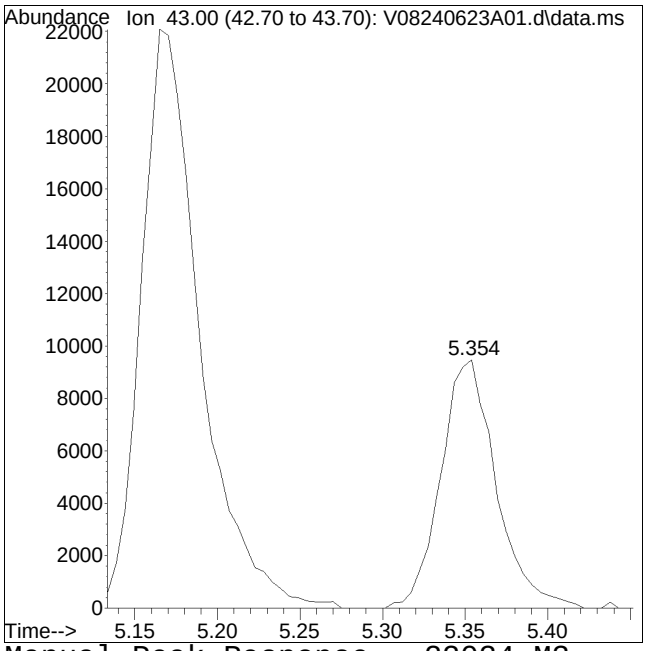


Manual Integration Report

Data Path	: K:\VOA108\2024\240623A\	QMethod	: V108_240514N_8260.m
Data File	: V08240623A01.d	Operator	: VOA108:PID
Date Inj'd	: 6/23/2024 11:28 am	Instrument	: VOA 108
Sample	: WG1938519-2	Quant Date	: 6/23/2024 12:04 pm

Compound #39: 2-Butanone





Original Peak Response = 40557 Manual Peak Response = 22034 M3

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

Evaluate Continuing Calibration Report

Data Path : K:\Gonzo\2024\240624A\
Data File : VG240624A01.D
Acq On : 24 Jun 2024 8:02 am
Operator : GONZO:PID
Sample : WG1938990-2 (Sig #1); 8260 CCAL (Sig #2)
Misc : WG1938990,ICAL21111 (Sig #1); WG,ICAL21111 (Sig #2)
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 24 08:28:52 2024
Quant Method : K:\Gonzo\2024\240624A\G_240509A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Fri May 10 11:02:54 2024
Response via : Initial Calibration

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

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	Fluorobenzene	1.000	1.000	0.0	134	0.00
2	TP	Dichlorodifluoromethane	0.254	0.263	-3.5	136	0.00
3	TP	Chloromethane	0.250	0.249	0.4	133	0.00
4	TC	Vinyl chloride	0.252	0.202	19.8	101	0.00
5	TP	Bromomethane	* 10.000	2.015	79.8#	30#	0.00
6	TP	Chloroethane	0.174	0.088	49.4#	60	0.00
7	TP	Trichlorofluoromethane	0.349	0.330	5.4	131	0.00
8	TP	Ethyl ether	0.097	0.088	9.3	125	0.00
10	TC	1,1-Dichloroethene	0.177	0.183	-3.4	139	0.00
11	TP	Carbon disulfide	0.560	0.603	-7.7	150	0.00
12	TP	Freon-113	0.201	0.209	-4.0	148	0.00
14	TP	Acrolein	0.030	0.029	3.3	129	0.00
15	TP	Methylene chloride	0.215	0.203	5.6	133	0.00
17	TP	Acetone	0.055	0.043	21.8#	115	0.00
18	TP	trans-1,2-Dichloroethene	0.200	0.198	1.0	139	0.00
19	TP	Methyl acetate	0.115	0.103	10.4	139	0.00
20	TP	Methyl tert-butyl ether	0.523	0.461	11.9	126	0.00
21	TP	tert-Butyl alcohol	0.016	0.014	12.5	125	0.00
22	TP	Diisopropyl ether	0.700	0.728	-4.0	149	0.00
23	TP	1,1-Dichloroethane	0.398	0.417	-4.8	144	0.00
24	TP	Halothane	0.158	0.163	-3.2	140	0.00
25	TP	Acrylonitrile	0.054	0.057	-5.6	143	0.00
26	TP	Ethyl tert-butyl ether	0.658	0.644	2.1	144	0.00
27	TP	Vinyl acetate	0.260	0.432	-66.2#	222#	0.00
28	TP	cis-1,2-Dichloroethene	0.232	0.223	3.9	139	0.00
29	TP	2,2-Dichloropropane	0.295	0.331	-12.2	156	0.00
30	TP	Bromochloromethane	0.105	0.094#	10.5	123	0.00
31	TP	Cyclohexane	* 10.000	11.745	-17.4	187	0.00
32	TC	Chloroform	0.384	0.363	5.5	132	0.00
33	TP	Ethyl acetate	0.165	0.162	1.8	136	0.00
34	TP	Carbon tetrachloride	0.299	0.315	-5.4	142	0.00
35	TP	Tetrahydrofuran	0.049	0.049	0.0	128	0.00
36	S	Dibromofluoromethane	0.256	0.247	3.5	131	0.00
37	TP	1,1,1-Trichloroethane	0.329	0.343	-4.3	139	0.00
39	TP	2-Butanone	0.073	0.070	4.1	121	0.00
40	TP	1,1-Dichloropropene	0.270	0.305	-13.0	152	0.00
41	TP	Benzene	0.846	0.865	-2.2	139	0.00
42	TP	tert-Amyl methyl ether	0.542	0.483	10.9	131	0.00
43	S	1,2-Dichloroethane-d4	0.307	0.291	5.2	125	0.00

Data Path : K:\Gonzo\2024\240624A\
Data File : VG240624A01.D
Acq On : 24 Jun 2024 8:02 am
Operator : GONZO:PID
Sample : WG1938990-2 (Sig #1); 8260 CCAL (Sig #2)
Misc : WG1938990,ICAL21111 (Sig #1); WG,ICAL21111 (Sig #2)
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 24 08:28:52 2024
Quant Method : K:\Gonzo\2024\240624A\G_240509A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Fri May 10 11:02:54 2024
Response via : Initial Calibration

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

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(min)
44	TP	1,2-Dichloroethane		0.305	0.267	12.5	124	0.00
47	TP	Methyl cyclohexane	*	10.000	11.023	-10.2	188	0.00
48	TP	Trichloroethene		0.254	0.220	13.4	125	0.00
50	TP	Dibromomethane		0.127	0.108	15.0	121	0.00
51	TC	1,2-Dichloropropane		0.218	0.230	-5.5	143	0.00
54	TP	Bromodichloromethane		0.298	0.272#	8.7	128	0.00
57	TP	1,4-Dioxane		0.00188	0.00156#	17.0	121	0.00
58	TP	cis-1,3-Dichloropropene		0.328	0.317	3.4	140	0.00
59	I	Chlorobenzene-d5		1.000	1.000	0.0	129	0.00
60	S	Toluene-d8		1.230	1.277	-3.8	129	0.00
61	TC	Toluene		0.680	0.700	-2.9	135	0.00
62	TP	4-Methyl-2-pentanone		0.076	0.079	-3.9	144	0.00
63	TP	Tetrachloroethene		0.265	0.276	-4.2	138	0.00
65	TP	trans-1,3-Dichloropropene		0.368	0.367	0.3	133	0.00
67	TP	Ethyl methacrylate		0.263	0.240	8.7	132	0.00
68	TP	1,1,2-Trichloroethane		0.191	0.173#	9.4	126	0.00
69	TP	Chlorodibromomethane		0.283	0.255	9.9	121	0.00
70	TP	1,3-Dichloropropane		0.369	0.360	2.4	128	0.00
71	TP	1,2-Dibromoethane		0.218	0.202	7.3	119	0.00
72	TP	2-Hexanone		0.127	0.124	2.4	134	0.00
73	TP	Chlorobenzene		0.768	0.735	4.3	128	0.00
74	TC	Ethylbenzene		1.324	1.314	0.8	139	0.00
75	TP	1,1,1,2-Tetrachloroethane		0.278	0.257	7.6	125	0.00
76	TP	p/m Xylene	*	20.000	18.387	8.1	136	0.00
77	TP	o Xylene	*	20.000	17.474	12.6	131	0.00
78	TP	Styrene	*	20.000	18.246	8.8	127	0.00
79	I	1,4-Dichlorobenzene-d4		1.000	1.000	0.0	116	0.00
80	TP	Bromoform		0.326	0.277	15.0	108	0.00
82	TP	Isopropylbenzene	*	10.000	10.213	-2.1	144	0.00
83	S	4-Bromofluorobenzene		0.804	0.961	-19.5	138	0.00
84	TP	Bromobenzene		0.585	0.581	0.7	121	0.00
85	TP	n-Propylbenzene		2.474	2.920	-18.0	146	0.00
86	TP	1,4-Dichlorobutane		0.694	0.762	-9.8	131	0.00
87	TP	1,1,2,2-Tetrachloroethane		0.440	0.483	-9.8	128	0.00
88	TP	4-Ethyltoluene		2.201	2.392	-8.7	142	0.00
89	TP	2-Chlorotoluene		1.577	1.762	-11.7	135	0.00
90	TP	1,3,5-Trimethylbenzene		1.898	2.051	-8.1	134	0.00

Evaluate Continuing Calibration Report

Data Path : K:\Gonzo\2024\240624A\
Data File : VG240624A01.D
Acq On : 24 Jun 2024 8:02 am
Operator : GONZO:PID
Sample : WG1938990-2 (Sig #1); 8260 CCAL (Sig #2)
Misc : WG1938990,ICAL21111 (Sig #1); WG,ICAL21111 (Sig #2)
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 24 08:28:52 2024
Quant Method : K:\Gonzo\2024\240624A\G_240509A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Fri May 10 11:02:54 2024
Response via : Initial Calibration

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

	Compound		AvgRF	CCRF	%Dev	Area%	Dev(min)
91 TP	1,2,3-Trichloropropane		0.418	0.397	5.0	116	0.00
92 TP	trans-1,4-Dichloro-2-butene		0.145	0.103	29.0#	86	0.00
93 TP	4-Chlorotoluene		1.664	1.789	-7.5	130	0.00
94 TP	tert-Butylbenzene	*	10.000	10.456	-4.6	144	0.00
97 TP	1,2,4-Trimethylbenzene		1.851	1.976	-6.8	132	0.00
98 TP	sec-Butylbenzene	*	10.000	11.379	-13.8	150	0.00
99 TP	p-Isopropyltoluene	*	10.000	11.072	-10.7	144	0.00
100 TP	1,3-Dichlorobenzene		1.106	1.080	2.4	119	0.00
101 TP	1,4-Dichlorobenzene		1.144	1.105	3.4	119	0.00
102 TP	p-Diethylbenzene		1.105	1.160	-5.0	142	0.00
103 TP	n-Butylbenzene	*	10.000	9.980	0.2	143	0.00
104 TP	1,2-Dichlorobenzene		1.039	0.985	5.2	114	0.00
105 TP	1,2,4,5-Tetramethylbenzene		1.583	1.411	10.9	122	0.00
106 TP	1,2-Dibromo-3-chloropropane		0.079	0.066	16.5	101	0.00
107 TP	1,3,5-Trichlorobenzene		0.648	0.656	-1.2	125	0.00
108 TP	Hexachlorobutadiene		0.178	0.208	-16.9	155	0.00
109 TP	1,2,4-Trichlorobenzene		0.545	0.493	9.5	110	0.00
110 TP	Naphthalene		1.133	0.836	26.2#	87	0.00
111 TP	1,2,3-Trichlorobenzene		0.448	0.371#	17.2	99	0.00

* Evaluation of CC level amount vs concentration.
(#) = Out of Range SPCC's out = 5 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : K:\Gonzo\2024\240624A\
Data File : VG240624A01.D
Acq On : 24 Jun 2024 8:02 am
Operator : GONZO:PID
Sample : WG1938990-2 (Sig #1); 8260 CCAL (Sig #2)
Misc : WG1938990,ICAL21111 (Sig #1); WG,ICAL21111 (Sig #2)
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 24 08:28:52 2024
Quant Method : K:\Gonzo\2024\240624A\G_240509A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Fri May 10 11:02:54 2024
Response via : Initial Calibration

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

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Fluorobenzene	6.094	96	645622	10.000	ug/L		0.00
59) Chlorobenzene-d5	9.637	117	484370	10.000	ug/L		0.00
79) 1,4-Dichlorobenzene-d4	12.319	152	249984	10.000	ug/L		0.00
System Monitoring Compounds							
36) Dibromofluoromethane	5.288	113	159419	9.642	ug/L		0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 96.42%				
43) 1,2-Dichloroethane-d4	5.813	65	188116	9.483	ug/L		0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 94.83%				
60) Toluene-d8	7.786	98	618683	10.381	ug/L		0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 103.81%				
83) 4-Bromofluorobenzene	11.118	95	240247	11.951	ug/L		0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 119.51%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.680	85	169650	10.349	ug/L		99
3) Chloromethane	1.893	50	160713	9.951	ug/L		99
4) Vinyl chloride	1.953	62	130384	8.011	ug/L		100
5) Bromomethane	2.265	94	30255	2.015	ug/L		95
6) Chloroethane	2.371	64	56775	5.046	ug/L		96
7) Trichlorofluoromethane	2.523	101	213075	9.469	ug/L		98
8) Ethyl ether	2.827	74	56708	9.088	ug/L		75
10) 1,1-Dichloroethene	3.024	96	118426	10.381	ug/L	#	79
11) Carbon disulfide	3.055	76	389282	10.772	ug/L		99
12) Freon-113	3.055	101	135161	10.417	ug/L	#	73
14) Acrolein	3.351	56	18967	9.848	ug/L		96
15) Methylene chloride	3.587	84	131331	9.453	ug/L		78
17) Acetone	3.625	43	27617	7.724	ug/L		89
18) trans-1,2-Dichloroethene	3.731	96	127804	9.906	ug/L		83
19) Methyl acetate	3.739	43	66535	8.988	ug/L	#	91
20) Methyl tert-butyl ether	3.822	73	297950	8.829	ug/L		89
21) tert-Butyl alcohol	3.921	59	44373	42.647	ug/L		95
22) Diisopropyl ether	4.179	45	470109	10.407	ug/L		93
23) 1,1-Dichloroethane	4.324	63	269262	10.492	ug/L		97
24) Halothane	4.369	117	105552	10.317	ug/L		100
25) Acrylonitrile	4.377	53	36697	10.525	ug/L		96
26) Ethyl tert-butyl ether	4.529	59	416014	9.786	ug/L		91
27) Vinyl acetate	4.552	43	278930	16.602	ug/L		97
28) cis-1,2-Dichloroethene	4.840	96	144112	9.608	ug/L		88
29) 2,2-Dichloropropane	4.939	77	213464	11.199	ug/L		97

Quantitation Report (QT Reviewed)

Data Path : K:\Gonzo\2024\240624A\
Data File : VG240624A01.D
Acq On : 24 Jun 2024 8:02 am
Operator : GONZO:PID
Sample : WG1938990-2 (Sig #1); 8260 CCAL (Sig #2)
Misc : WG1938990,ICAL21111 (Sig #1); WG,ICAL21111 (Sig #2)
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 24 08:28:52 2024
Quant Method : K:\Gonzo\2024\240624A\G_240509A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Fri May 10 11:02:54 2024
Response via : Initial Calibration

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

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
30) Bromochloromethane	5.038	128	60419	8.922	ug/L	#	73
31) Cyclohexane	5.030	56	303312	11.745	ug/L		73
32) Chloroform	5.106	83	234596	9.465	ug/L		98
33) Ethyl acetate	5.212	43	104284	9.796	ug/L		97
34) Carbon tetrachloride	5.235	117	203194	10.523	ug/L		99
35) Tetrahydrofuran	5.258	42	31691M6	9.933	ug/L		
37) 1,1,1-Trichloroethane	5.304	97	221240	10.416	ug/L		96
39) 2-Butanone	5.402	43	44965	9.527	ug/L	#	78
40) 1,1-Dichloropropene	5.425	75	196624	11.263	ug/L		97
41) Benzene	5.676	78	558144	10.221	ug/L	#	93
42) tert-Amyl methyl ether	5.775	73	311573	8.904	ug/L	#	91
44) 1,2-Dichloroethane	5.881	62	172661	8.772	ug/L		99
47) Methyl cyclohexane	6.253	83	239311	11.023	ug/L	#	69
48) Trichloroethene	6.276	95	142199	8.664	ug/L		97
50) Dibromomethane	6.724	93	69641	8.478	ug/L		91
51) 1,2-Dichloropropane	6.823	63	148753	10.575	ug/L		95
54) Bromodichloromethane	6.899	83	175511	9.108	ug/L		99
57) 1,4-Dioxane	7.099	88	50223	414.674	ug/L	#	80
58) cis-1,3-Dichloropropene	7.586	75	204663	9.656	ug/L		97
61) Toluene	7.843	92	339259	10.302	ug/L		99
62) 4-Methyl-2-pentanone	8.280	58	38391	10.419	ug/L	#	92
63) Tetrachloroethene	8.295	166	133837	10.428	ug/L		96
65) trans-1,3-Dichloropropene	8.338	75	177891	9.980	ug/L		100
67) Ethyl methacrylate	8.517	69	116126	9.099	ug/L		94
68) 1,1,2-Trichloroethane	8.524	83	83991	9.088	ug/L		96
69) Chlorodibromomethane	8.739	129	123605	9.006	ug/L		99
70) 1,3-Dichloropropane	8.846	76	174261	9.741	ug/L		100
71) 1,2-Dibromoethane	9.011	107	97792	9.262	ug/L		100
72) 2-Hexanone	9.298	43	60116	9.776	ug/L		98
73) Chlorobenzene	9.662	112	356201	9.578	ug/L		96
74) Ethylbenzene	9.695	91	636294	9.923	ug/L		98
75) 1,1,1,2-Tetrachloroethane	9.744	131	124341	9.227	ug/L		96
76) p/m Xylene	9.876	106	490785	18.387	ug/L		94
77) o Xylene	10.419	106	464868	17.474	ug/L		94
78) Styrene	10.484	104	770299	18.246	ug/L		95
80) Bromoform	10.517	173	69214	8.487	ug/L		99
82) Isopropylbenzene	10.789	105	611148	10.213	ug/L		97
84) Bromobenzene	11.233	156	145293	9.936	ug/L		98
85) n-Propylbenzene	11.266	91	729939	11.801	ug/L		97
86) 1,4-Dichlorobutane	11.290	55	190528	10.983	ug/L		95
87) 1,1,2,2-Tetrachloroethane	11.365	83	120698	10.982	ug/L		99

Quantitation Report (QT Reviewed)

Data Path : K:\Gonzo\2024\240624A\
Data File : VG240624A01.D
Acq On : 24 Jun 2024 8:02 am
Operator : GONZO:PID
Sample : WG1938990-2 (Sig #1); 8260 CCAL (Sig #2)
Misc : WG1938990,ICAL21111 (Sig #1); WG,ICAL21111 (Sig #2)
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 24 08:28:52 2024
Quant Method : K:\Gonzo\2024\240624A\G_240509A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Fri May 10 11:02:54 2024
Response via : Initial Calibration

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

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
88) 4-Ethyltoluene	11.389	105	597983	10.867	ug/L		97
89) 2-Chlorotoluene	11.439	91	440436M6	11.172	ug/L		
90) 1,3,5-Trimethylbenzene	11.488	105	512662	10.803	ug/L		98
91) 1,2,3-Trichloropropane	11.504	75	99302M1	9.495	ug/L		
92) trans-1,4-Dichloro-2-b...	11.554	53	25642	7.090	ug/L	#	94
93) 4-Chlorotoluene	11.620	91	447336	10.751	ug/L		97
94) tert-Butylbenzene	11.825	119	421818	10.456	ug/L		94
97) 1,2,4-Trimethylbenzene	11.907	105	493893	10.676	ug/L		96
98) sec-Butylbenzene	12.014	105	611303	11.379	ug/L		97
99) p-Isopropyltoluene	12.171	119	522372	11.072	ug/L		97
100) 1,3-Dichlorobenzene	12.245	146	270008	9.762	ug/L		97
101) 1,4-Dichlorobenzene	12.335	146	276262	9.659	ug/L		97
102) p-Diethylbenzene	12.541	119	289999	10.495	ug/L		96
103) n-Butylbenzene	12.598	91	415327	9.980	ug/L		99
104) 1,2-Dichlorobenzene	12.763	146	246260	9.481	ug/L		97
105) 1,2,4,5-Tetramethylben...	13.331	119	352806	8.915	ug/L		94
106) 1,2-Dibromo-3-chloropr...	13.536	155	16586	8.421	ug/L		97
107) 1,3,5-Trichlorobenzene	13.561	180	163971	10.118	ug/L		96
108) Hexachlorobutadiene	14.129	225	52046	11.697	ug/L		98
109) 1,2,4-Trichlorobenzene	14.161	180	123361	9.059	ug/L		98
110) Naphthalene	14.458	128	208900	7.377	ug/L		100
111) 1,2,3-Trichlorobenzene	14.622	180	92686	8.278	ug/L		98

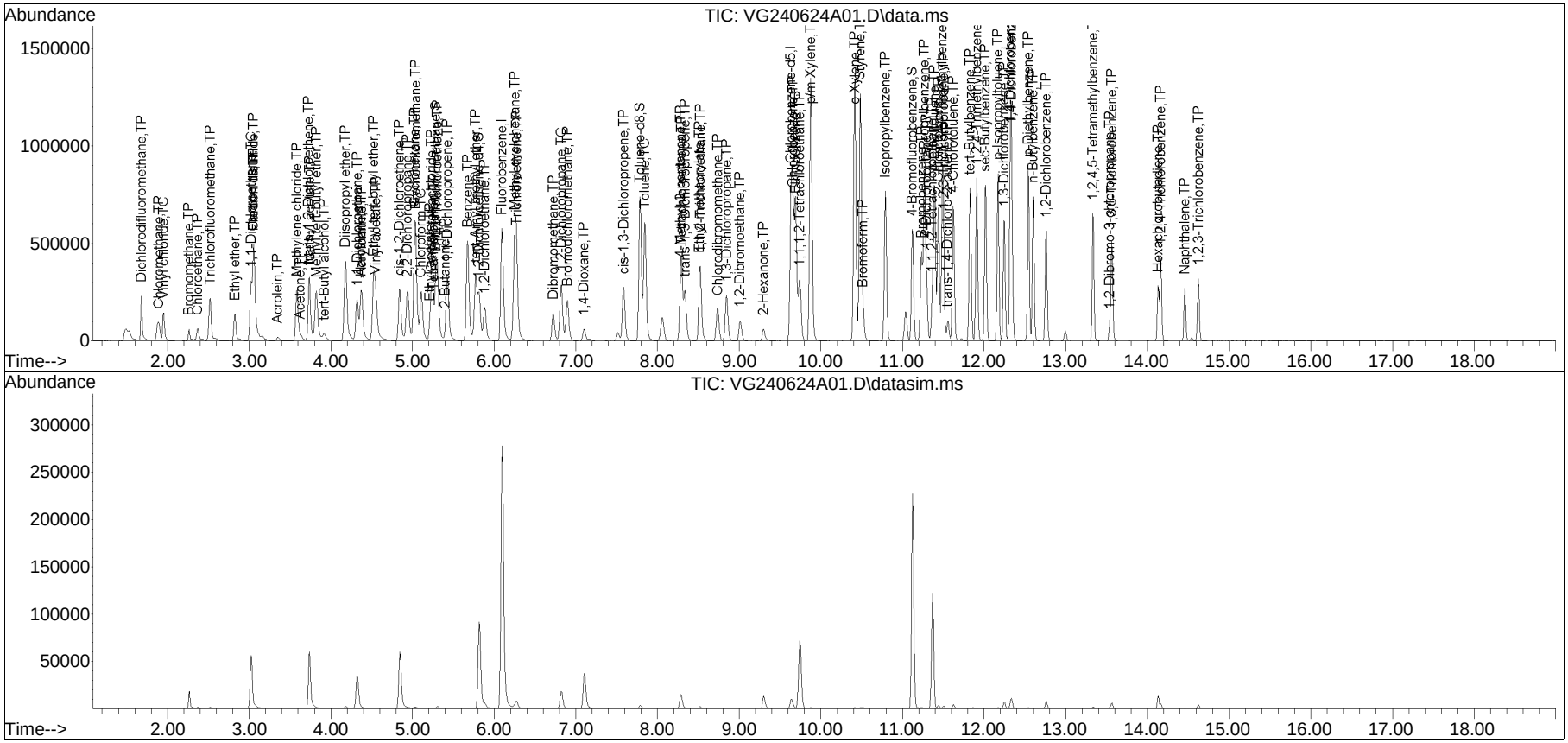
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : K:\Gonzo\2024\240624A\
Data File : VG240624A01.D
Acq On : 24 Jun 2024 8:02 am
Operator : GONZO:PID
Sample : WG1938990-2 (Sig #1); 8260 CCAL (Sig #2)
Misc : WG1938990,ICAL21111 (Sig #1); WG,ICAL21111 (Sig #2)
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 24 08:28:52 2024
Quant Method : K:\Gonzo\2024\240624A\G_240509A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Fri May 10 11:02:54 2024
Response via : Initial Calibration

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

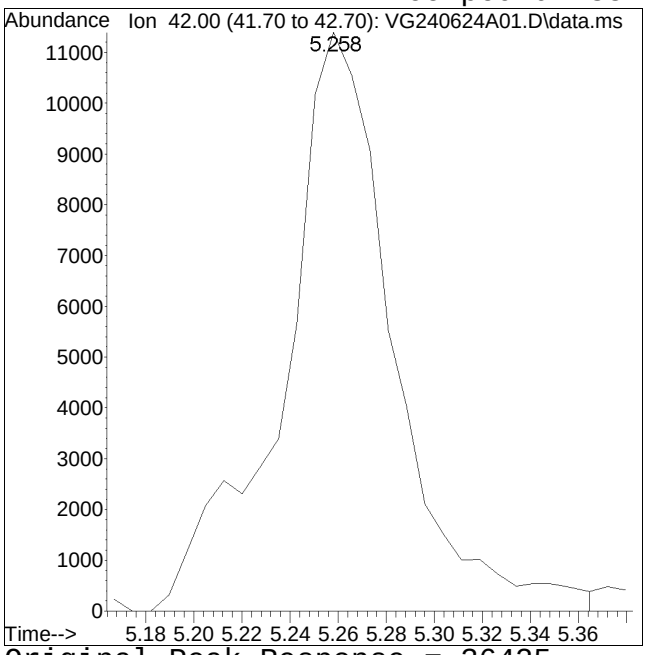


Manual Integration Report

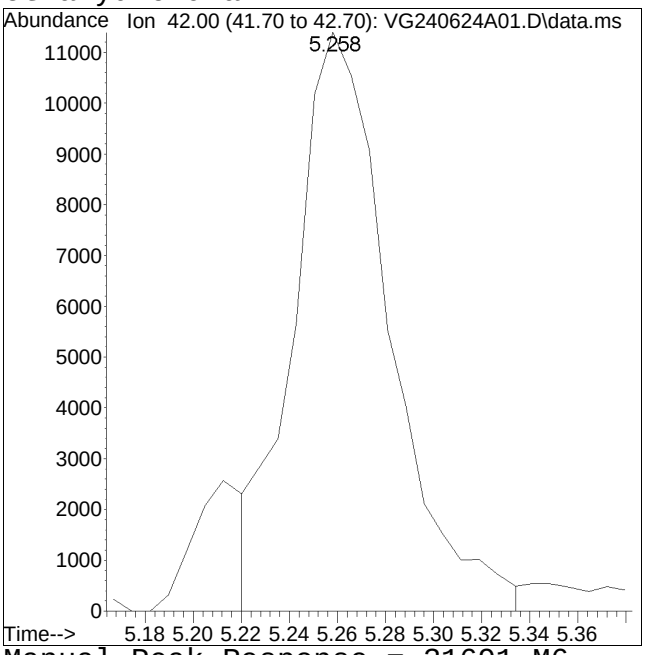
Data Path : K:\Gonzo\2024\240624A\
Data File : VG240624A01.D
Date Inj'd : 6/24/2024 8:02 am
Sample : WG1938990-2

QMethod : G_240509A_8260.m
Operator : GONZO:PID
Instrument : Gonzo
Quant Date : 6/24/2024 8:28 am

Compound #35: Tetrahydrofuran



Original Peak Response = 36425



Manual Peak Response = 31691 M6

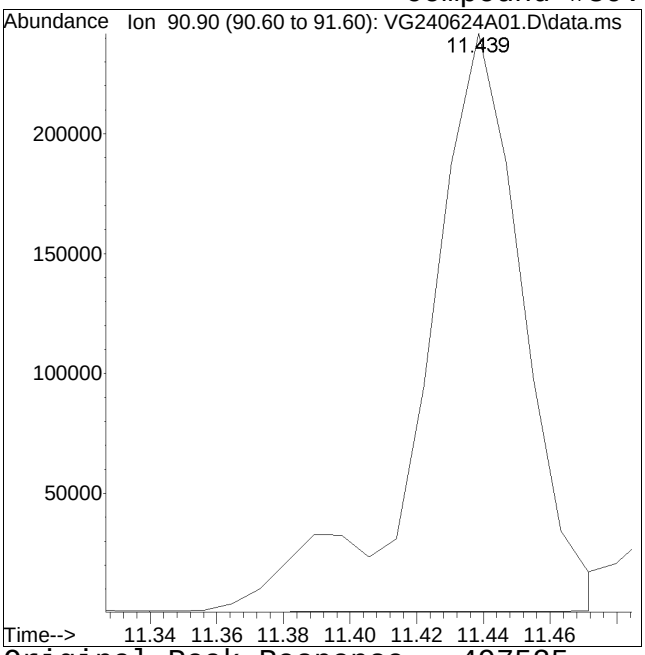
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

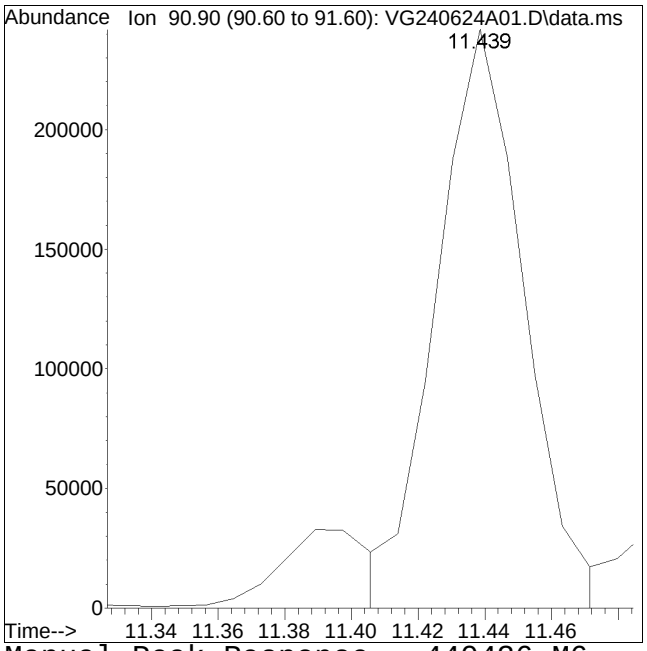
Data Path : K:\Gonzo\2024\240624A\
Data File : VG240624A01.D
Date Inj'd : 6/24/2024 8:02 am
Sample : WG1938990-2

QMethod : G_240509A_8260.m
Operator : GONZO:PID
Instrument : Gonzo
Quant Date : 6/24/2024 8:28 am

Compound #89: 2-Chlorotoluene



Original Peak Response = 497525



Manual Peak Response = 440436 M6

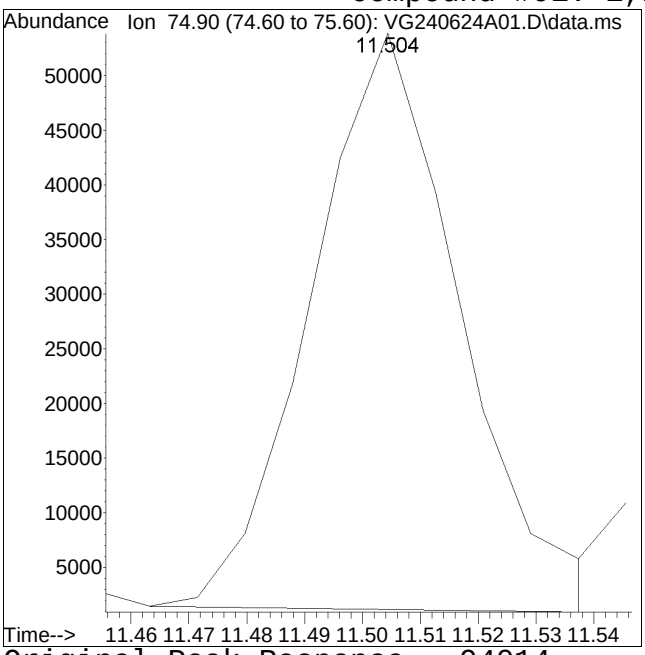
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

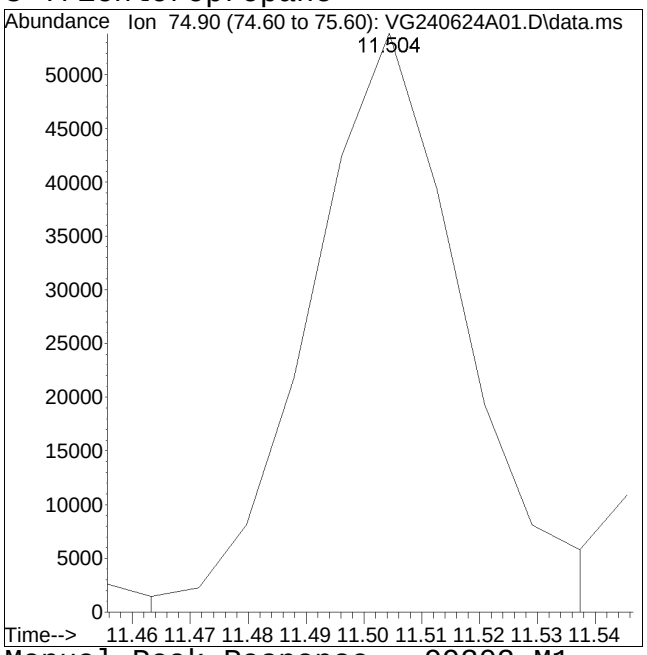
Data Path : K:\Gonzo\2024\240624A\
Data File : VG240624A01.D
Date Inj'd : 6/24/2024 8:02 am
Sample : WG1938990-2

QMethod : G_240509A_8260.m
Operator : GONZO:PID
Instrument : Gonzo
Quant Date : 6/24/2024 8:28 am

Compound #91: 1,2,3-Trichloropropane



Original Peak Response = 94014



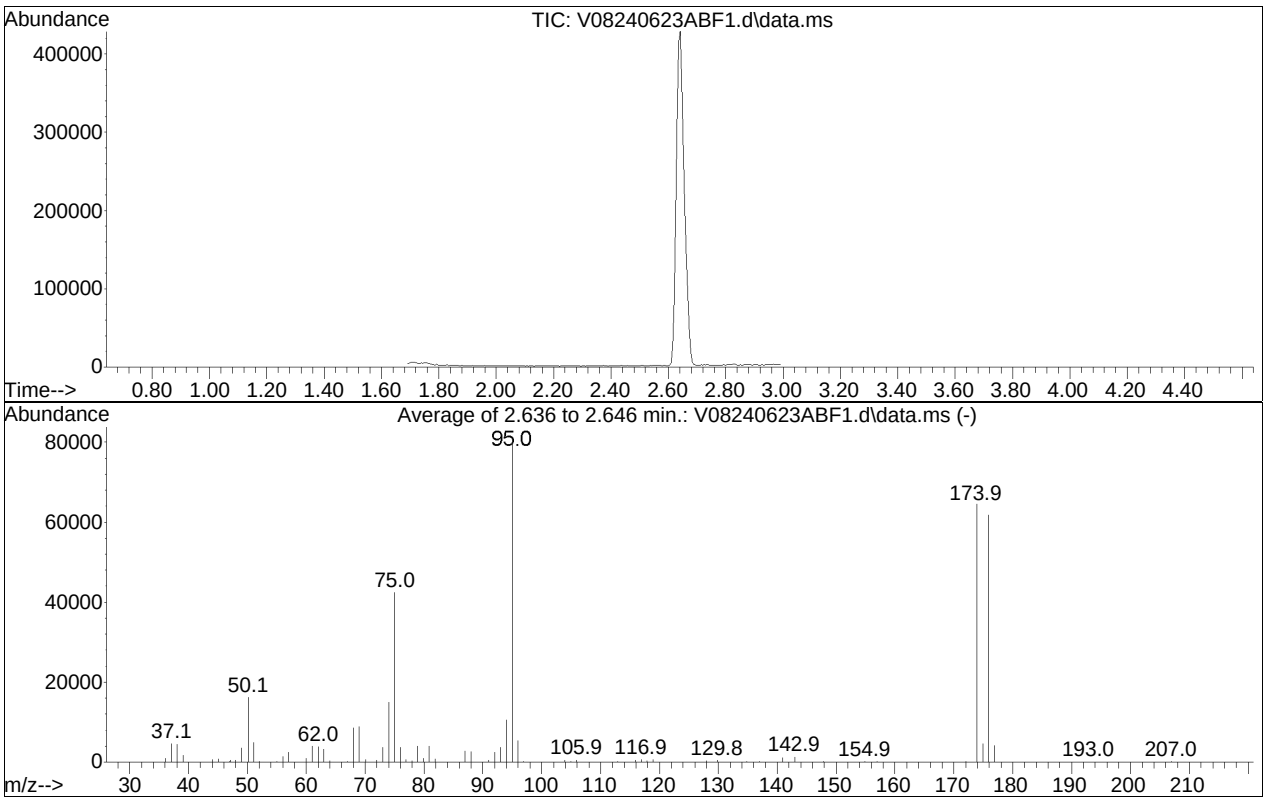
Manual Peak Response = 99302 M1

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

Data Path : K:\VOA108\2024\240623A\
Data File : V08240623ABF1.d
Acq On : 23 Jun 2024 11:15 am
Operator : VOA108:PID
Sample : WG1938519-1
Misc : WG1938519
ALS Vial : 1 Sample Multiplier: 1

Integration File: rteint.p

Method : K:\VOA108\2024\240623A\V108_240514N_8260.m
Title : VOLATILES BY GC/MS
Last Update : Wed May 15 09:35:21 2024



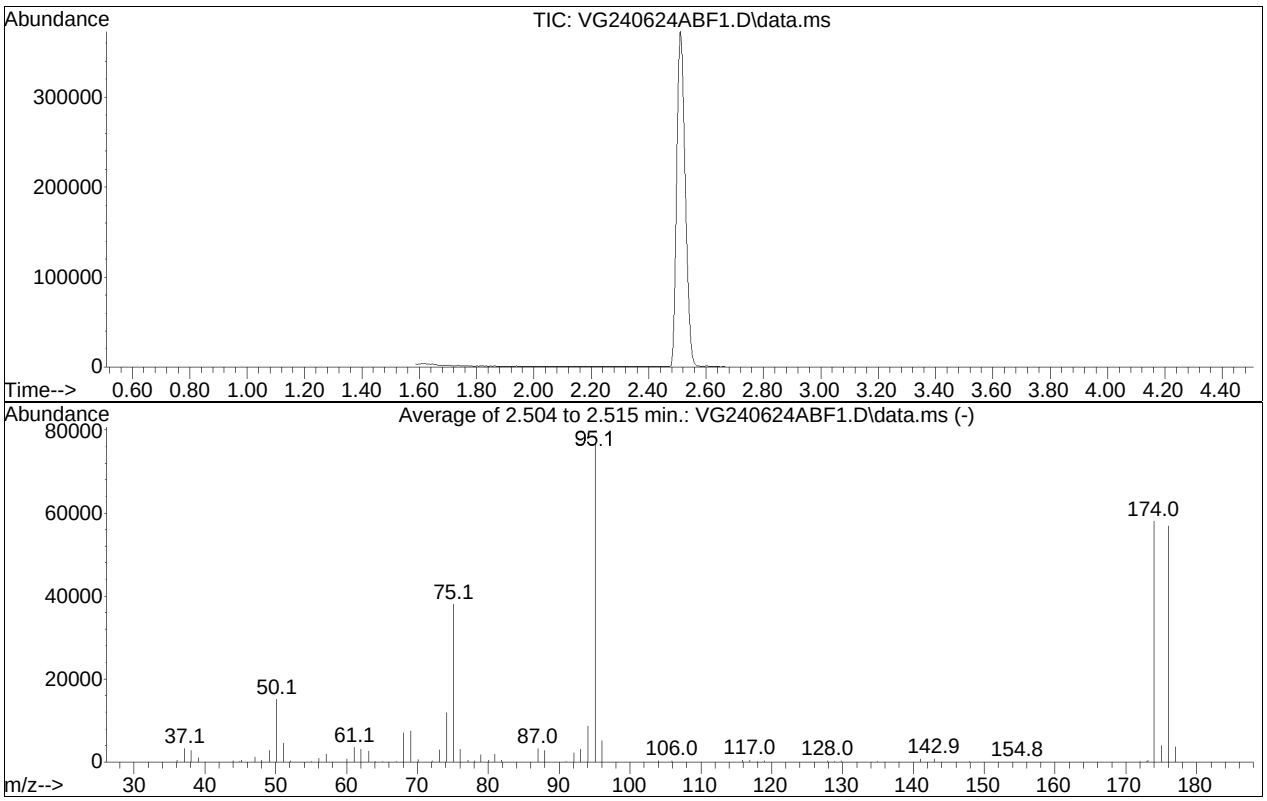
AutoFind: Scans 181, 182, 183; Background Corrected with Scan 172

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	20.4	16265	PASS
75	95	30	60	53.1	42443	PASS
95	95	100	100	100.0	79896	PASS
96	95	5	9	6.9	5484	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	80.7	64488	PASS
175	174	5	9	7.3	4691	PASS
176	174	95	101	95.9	61832	PASS
177	176	5	9	6.7	4129	PASS

Data Path : K:\Gonzo\2024\240624A\
Data File : VG240624ABF1.D
Acq On : 24 Jun 2024 7:47 am
Operator : GONZO:PID
Sample : WG1938990-1
Misc : WG1938990,ICAL21111
ALS Vial : 1 Sample Multiplier: 1

Integration File: rteint.p

Method : K:\Gonzo\2024\240624A\G_240509A_8260.m
Title : VOLATILES BY GC/MS
Last Update : Fri May 10 11:02:54 2024



Spectrum Information: Average of 2.504 to 2.515 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	19.7	15122	PASS
75	95	30	60	49.5	38120	PASS
95	95	100	100	100.0	76952	PASS
96	95	5	9	6.7	5172	PASS
173	174	0.00	2	0.7	432	PASS
174	95	50	100	75.5	58104	PASS
175	174	5	9	7.0	4049	PASS
176	174	95	101	97.8	56840	PASS
177	176	5	9	6.6	3775	PASS

Volatiles Raw QC Data

Quantitation Report (QT Reviewed)

Data Path : K:\VOA108\2024\240623A\
Data File : V08240623A06.d
Acq On : 23 Jun 2024 1:21 pm
Operator : VOA108:PID
Sample : WG1938519-5,31,10,10
Misc : WG1938519,ICAL21127
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 23 13:51:28 2024
Quant Method : K:\VOA108\2024\240623A\V108_240514N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed May 15 09:35:21 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA108\2024\240623A\V08240623A01.d
Sub List : 8260-NY_R2 - NYSOM01.2 + NYSTARS

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	6.051	96	387103	10.000	ug/L	0.00
Standard Area 1 = 406145			Recovery = 95.31%			
59) Chlorobenzene-d5	9.574	117	290544	10.000	ug/L	0.00
Standard Area 1 = 302664			Recovery = 96.00%			
79) 1,4-Dichlorobenzene-d4	12.264	152	132793	10.000	ug/L	0.00
Standard Area 1 = 142503			Recovery = 93.19%			
System Monitoring Compounds						
36) Dibromofluoromethane	5.244	113	111037	10.461	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 104.61%			
43) 1,2-Dichloroethane-d4	5.768	65	115275	9.704	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 97.04%			
60) Toluene-d8	7.739	98	382542	10.031	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 100.31%			
83) 4-Bromofluorobenzene	11.058	95	133240	10.537	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 105.37%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	0.000		0	N.D.		
3) Chloromethane	1.862	50	13902	1.514	ug/L	98
4) Vinyl chloride	0.000		0	N.D.		
5) Bromomethane	2.260	94	1415	0.287	ug/L	84
6) Chloroethane	0.000		0	N.D.		
7) Trichlorofluoromethane	0.000		0	N.D.		
10) 1,1-Dichloroethene	0.000		0	N.D.		
11) Carbon disulfide	3.026	76	717	N.D.		
12) Freon-113	0.000		0	N.D.		
15) Methylene chloride	3.555	84	473	N.D.		
17) Acetone	0.000		0	N.D. d		
18) trans-1,2-Dichloroethene	0.000		0	N.D.		
19) Methyl acetate	0.000		0	N.D. d		
20) Methyl tert-butyl ether	0.000		0	N.D.		
23) 1,1-Dichloroethane	0.000		0	N.D.		
28) cis-1,2-Dichloroethene	0.000		0	N.D.		
30) Bromochloromethane	0.000		0	N.D.		
31) Cyclohexane	0.000		0	N.D.		
32) Chloroform	0.000		0	N.D.		
34) Carbon tetrachloride	0.000		0	N.D.		

Data Path : K:\VOA108\2024\240623A\
Data File : V08240623A06.d
Acq On : 23 Jun 2024 1:21 pm
Operator : VOA108:PID
Sample : WG1938519-5,31,10,10
Misc : WG1938519,ICAL21127
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 23 13:51:28 2024
Quant Method : K:\VOA108\2024\240623A\V108_240514N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed May 15 09:35:21 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA108\2024\240623A\V08240623A01.d
Sub List : 8260-NY_R2 - NYSOM01.2 + NYSTARS

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
37)	1,1,1-Trichloroethane	0.000		0		N.D.	
39)	2-Butanone	0.000		0		N.D.	
41)	Benzene	0.000		0		N.D.	
44)	1,2-Dichloroethane	0.000		0		N.D.	
47)	Methyl cyclohexane	0.000		0		N.D.	
48)	Trichloroethene	0.000		0		N.D.	
51)	1,2-Dichloropropane	0.000		0		N.D.	
54)	Bromodichloromethane	0.000		0		N.D.	
57)	1,4-Dioxane	0.000		0		N.D.	
58)	cis-1,3-Dichloropropene	0.000		0		N.D.	
61)	Toluene	0.000		0		N.D.	
62)	4-Methyl-2-pentanone	0.000		0		N.D.	
63)	Tetrachloroethene	0.000		0		N.D.	
65)	trans-1,3-Dichloropropene	0.000		0		N.D.	
68)	1,1,2-Trichloroethane	0.000		0		N.D.	
69)	Chlorodibromomethane	0.000		0		N.D.	
71)	1,2-Dibromoethane	0.000		0		N.D.	
72)	2-Hexanone	9.129	43	117		N.D.	
73)	Chlorobenzene	9.590	112	243		N.D.	
74)	Ethylbenzene	9.580	91	625		N.D.	
76)	p/m Xylene	0.000		0		N.D.	
77)	o Xylene	0.000		0		N.D.	
78)	Styrene	10.429	104	207		N.D.	
80)	Bromoform	0.000		0		N.D.	
82)	Isopropylbenzene	0.000		0		N.D.	
87)	1,1,2,2-Tetrachloroethane	0.000		0		N.D.	
100)	1,3-Dichlorobenzene	12.185	146	117		N.D.	
101)	1,4-Dichlorobenzene	12.285	146	277		N.D.	
104)	1,2-Dichlorobenzene	12.710	146	49		N.D.	
106)	1,2-Dibromo-3-chloropr...	0.000		0		N.D.	
109)	1,2,4-Trichlorobenzene	14.104	180	316		N.D.	
111)	1,2,3-Trichlorobenzene	14.566	180	123		N.D.	

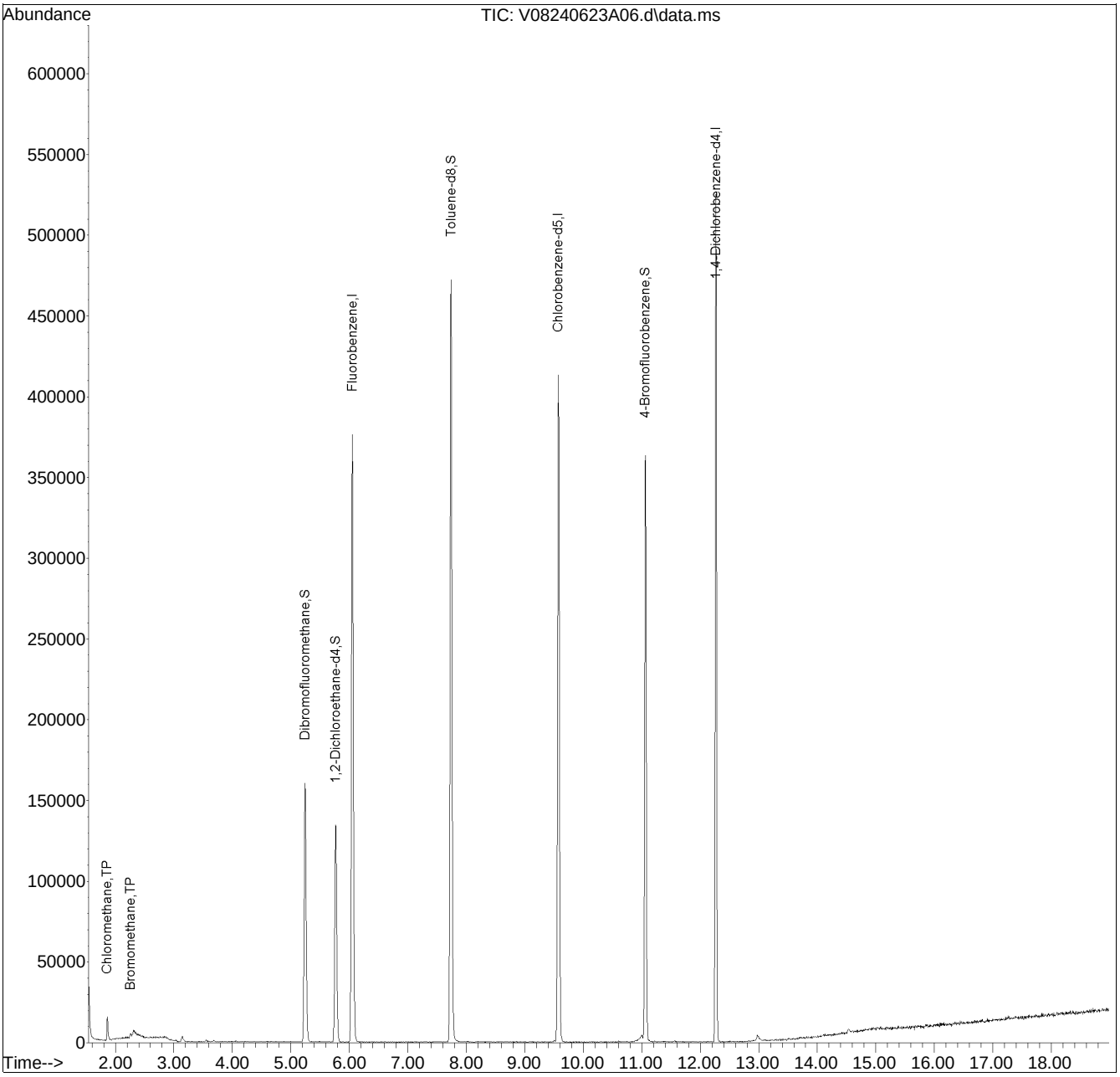
(#) = qualifier out of range (m) = manual integration (+) = signals summed

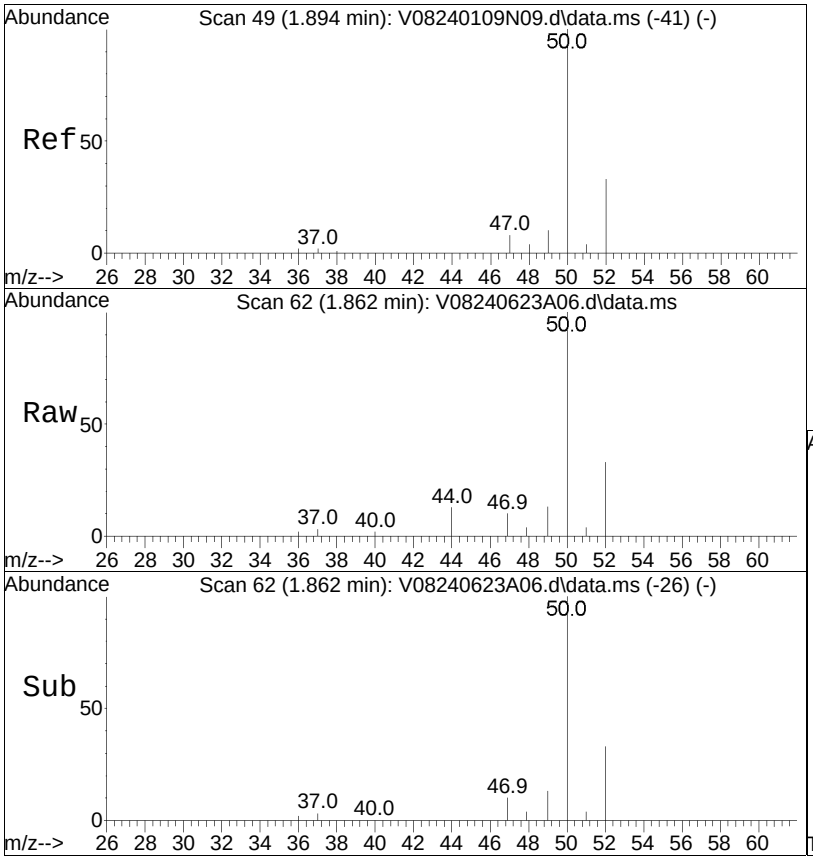
Quantitation Report (QT Reviewed)

Data Path : K:\VOA108\2024\240623A\
Data File : V08240623A06.d
Acq On : 23 Jun 2024 1:21 pm
Operator : VOA108:PID
Sample : WG1938519-5,31,10,10
Misc : WG1938519,ICAL21127
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 23 13:51:28 2024
Quant Method : K:\VOA108\2024\240623A\V108_240514N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed May 15 09:35:21 2024
Response via : Initial Calibration

Sub List : 8260-NY_R2 - NYSOM01.2 + NYSTARS0623A01.d•

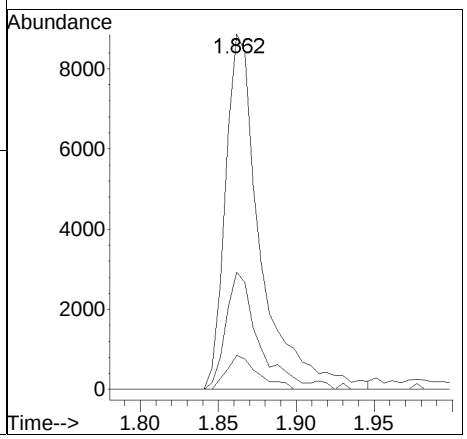


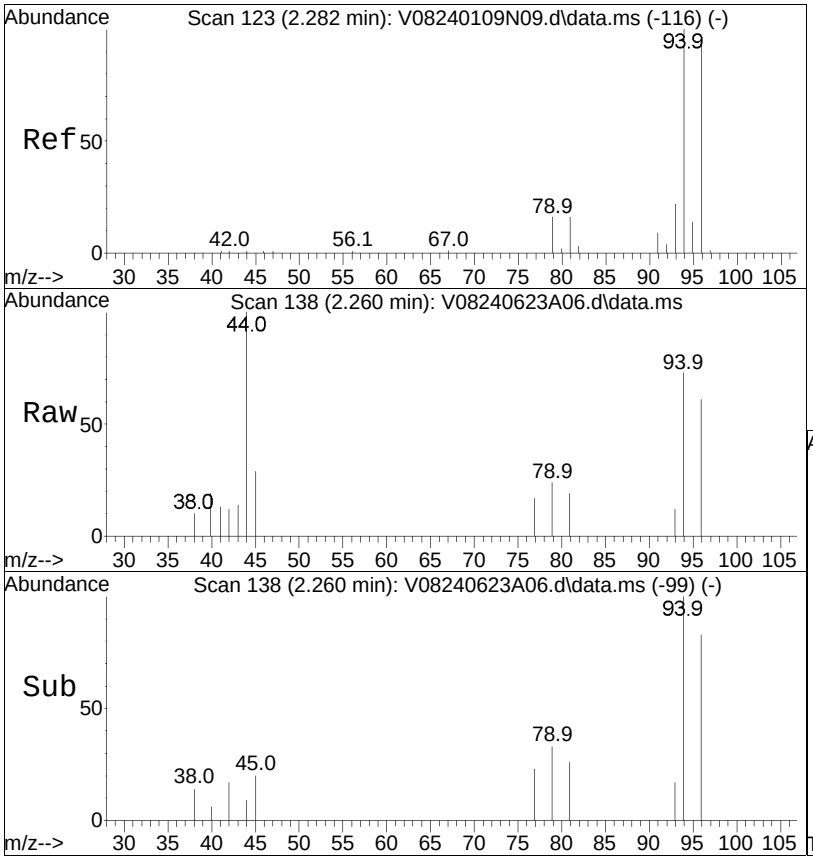


#3
Chloromethane
Concen: 1.51 ug/L
RT: 1.862 min Scan# 62
Delta R.T. -0.010 min
Lab File: V08240623A06.d
Acq: 23 Jun 2024 1:21 pm

Tgt Ion: 50 Resp: 13902

Ion	Ratio	Lower	Upper
50	100		
52	31.6	12.9	52.9
47	8.6	0.0	28.3

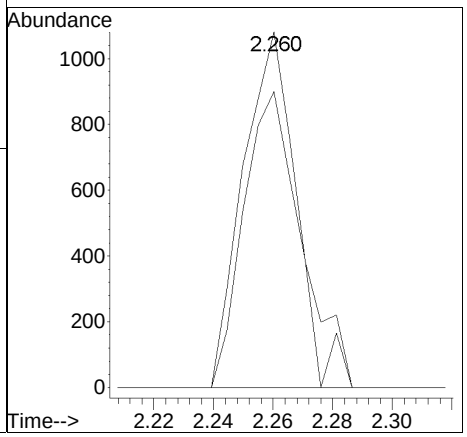




#5
Bromomethane
Concen: 0.29 ug/L
RT: 2.260 min Scan# 138
Delta R.T. 0.005 min
Lab File: V08240623A06.d
Acq: 23 Jun 2024 1:21 pm

Tgt Ion: 94 Resp: 1415

Ion	Ratio	Lower	Upper
94	100		
96	80.0	75.6	115.6



Manual Integration Report

Data Path	: K:\VOA108\2024\240623A\	QMethod	: V108_240514N_8260.m
Data File	: V08240623A06.d	Operator	: VOA108:PID
Date Inj'd	: 6/23/2024 1:21 pm	Instrument	: VOA 108
Sample	: WG1938519-5,31,10,10	Quant Date	: 6/23/2024 1:50 pm

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

Quantitation Report (QT Reviewed)

Data Path : K:\Gonzo\2024\240624A\
Data File : VG240624A05.D
Acq On : 24 Jun 2024 9:37 am
Operator : GONZO:PID
Sample : WG1938990-5,31,10,10 (Sig #1); METHOD BLK (Sig #2)
Misc : WG1938990,ICAL21111 (Sig #1); WG,ICAL21111 (Sig #2)
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 24 10:14:00 2024
Quant Method : K:\Gonzo\2024\240624A\G_240509A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Fri May 10 11:02:54 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\Gonzo\2024\240624A\VG240624A01.D
Sub List : 8260-Curve-IM-2CEVE - Megamix plus Diox-Iodomethane

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	6.094	96	507803	10.000	ug/L	0.00
Standard Area 1 = 645622			Recovery = 78.65%			
59) Chlorobenzene-d5	9.645	117	389208	10.000	ug/L	0.00
Standard Area 1 = 484370			Recovery = 80.35%			
79) 1,4-Dichlorobenzene-d4	12.327	152	201509	10.000	ug/L	0.00
Standard Area 1 = 249984			Recovery = 80.61%			
System Monitoring Compounds						
36) Dibromofluoromethane	5.288	113	123904	9.527	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 95.27%			
43) 1,2-Dichloroethane-d4	5.820	65	144980	9.292	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 92.92%			
60) Toluene-d8	7.786	98	484422	10.115	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 101.15%			
83) 4-Bromofluorobenzene	11.126	95	187893	11.595	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 115.95%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.467	85	679	N.D.		
3) Chloromethane	0.000		0	N.D.	d	
4) Vinyl chloride	0.000		0	N.D.		
5) Bromomethane	0.000		0	N.D.	d	
6) Chloroethane	0.000		0	N.D.		
7) Trichlorofluoromethane	0.000		0	N.D.		
10) 1,1-Dichloroethene	0.000		0	N.D.		
11) Carbon disulfide	3.055	76	1463	N.D.		
12) Freon-113	0.000		0	N.D.		
15) Methylene chloride	3.587	84	1054	0.096	ug/L	78
17) Acetone	0.000		0	N.D.	d	
18) trans-1,2-Dichloroethene	3.738	96	89	N.D.		
19) Methyl acetate	3.738	43	89	N.D.		
20) Methyl tert-butyl ether	0.000		0	N.D.		
23) 1,1-Dichloroethane	0.000		0	N.D.		
28) cis-1,2-Dichloroethene	4.901	96	147	N.D.		
30) Bromochloromethane	0.000		0	N.D.		
31) Cyclohexane	0.000		0	N.D.		
32) Chloroform	0.000		0	N.D.		
34) Carbon tetrachloride	0.000		0	N.D.		

Data Path : K:\Gonzo\2024\240624A\
Data File : VG240624A05.D
Acq On : 24 Jun 2024 9:37 am
Operator : GONZO:PID
Sample : WG1938990-5,31,10,10 (Sig #1); METHOD BLK (Sig #2)
Misc : WG1938990,ICAL21111 (Sig #1); WG,ICAL21111 (Sig #2)
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 24 10:14:00 2024
Quant Method : K:\Gonzo\2024\240624A\G_240509A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Fri May 10 11:02:54 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\Gonzo\2024\240624A\VG240624A01.D
Sub List : 8260-Curve-IM-2CEVE - Megamix plus Diox-Iodomethane

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) 1,1,1-Trichloroethane	0.000		0	N.D.		
39) 2-Butanone	0.000		0	N.D.		
41) Benzene	0.000		0	N.D.		
44) 1,2-Dichloroethane	0.000		0	N.D.	d	
47) Methyl cyclohexane	0.000		0	N.D.		
48) Trichloroethene	0.000		0	N.D.	d	
51) 1,2-Dichloropropane	0.000		0	N.D.		
54) Bromodichloromethane	0.000		0	N.D.		
57) 1,4-Dioxane	0.000		0	N.D.		
58) cis-1,3-Dichloropropene	0.000		0	N.D.		
61) Toluene	7.858	92	108	N.D.		
62) 4-Methyl-2-pentanone	0.000		0	N.D.		
63) Tetrachloroethene	0.000		0	N.D.		
65) trans-1,3-Dichloropropene	0.000		0	N.D.		
68) 1,1,2-Trichloroethane	0.000		0	N.D.		
69) Chlorodibromomethane	0.000		0	N.D.		
71) 1,2-Dibromoethane	0.000		0	N.D.		
72) 2-Hexanone	0.000		0	N.D.		
73) Chlorobenzene	0.000		0	N.D.		
74) Ethylbenzene	9.703	91	170	N.D.		
76) p/m Xylene	0.000		0	N.D.		
77) o Xylene	0.000		0	N.D.		
78) Styrene	0.000		0	N.D.	d	
80) Bromoform	0.000		0	N.D.		
82) Isopropylbenzene	0.000		0	N.D.		
87) 1,1,2,2-Tetrachloroethane	0.000		0	N.D.		
100) 1,3-Dichlorobenzene	12.261	146	128	N.D.		
101) 1,4-Dichlorobenzene	12.335	146	382	N.D.		
104) 1,2-Dichlorobenzene	0.000		0	N.D.		
106) 1,2-Dibromo-3-chloropr...	0.000		0	N.D.		
109) 1,2,4-Trichlorobenzene	14.186	180	591	N.D.		
111) 1,2,3-Trichlorobenzene	14.647	180	413	N.D.		

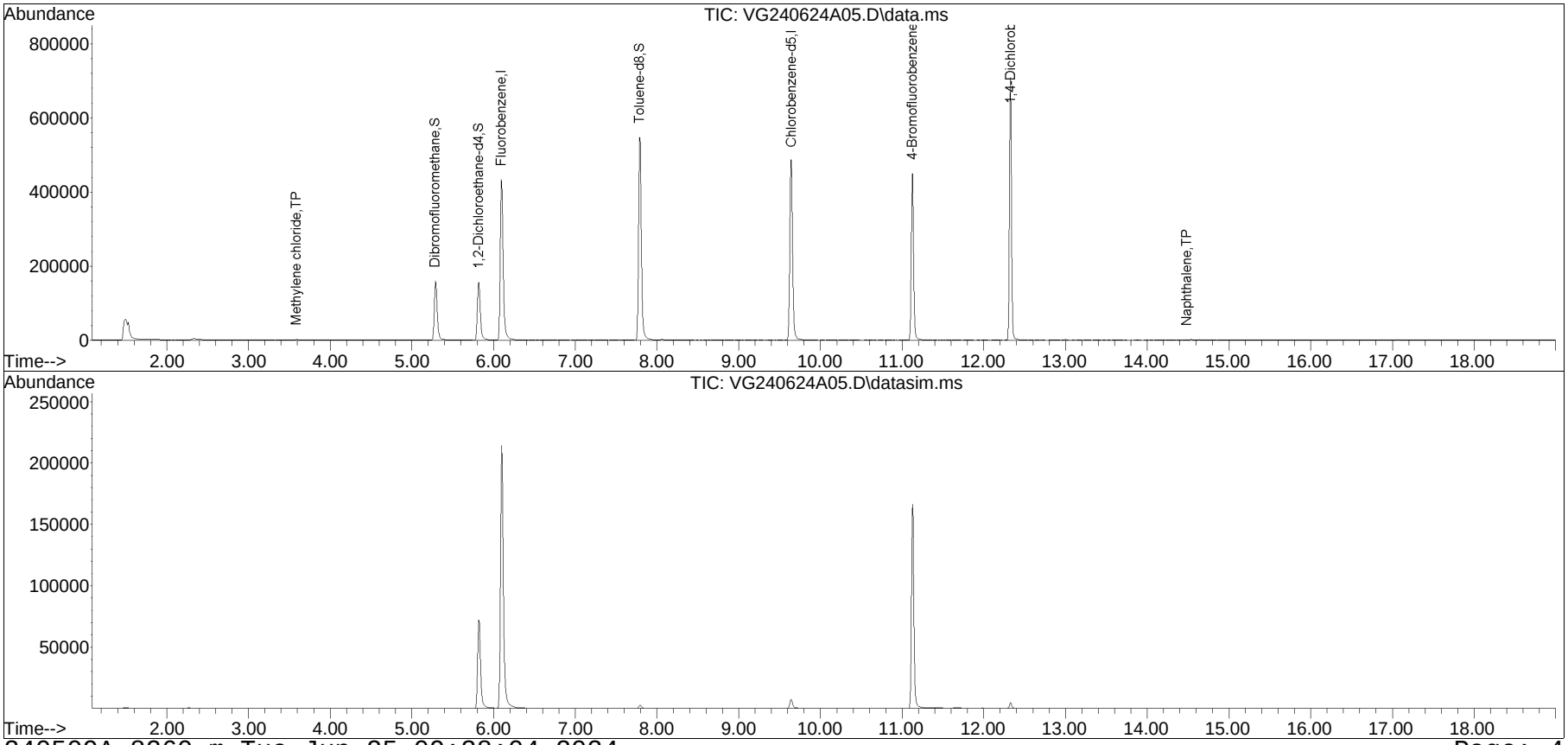
(#) = qualifier out of range (m) = manual integration (+) = signals summed

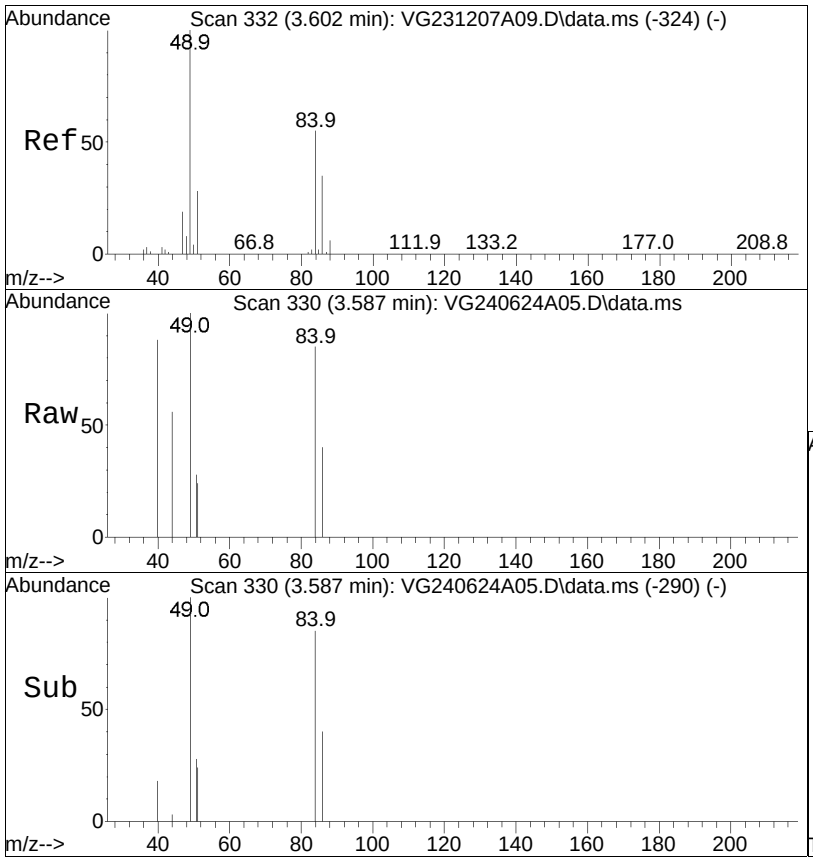
Quantitation Report (QT Reviewed)

Data Path : K:\Gonzo\2024\240624A\
Data File : VG240624A05.D
Acq On : 24 Jun 2024 9:37 am
Operator : GONZO:PID
Sample : WG1938990-5,31,10,10 (Sig #1); METHOD BLK (Sig #2)
Misc : WG1938990,ICAL21111 (Sig #1); WG,ICAL21111 (Sig #2)
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 24 10:14:00 2024
Quant Method : K:\Gonzo\2024\240624A\G_240509A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Fri May 10 11:02:54 2024
Response via : Initial Calibration

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

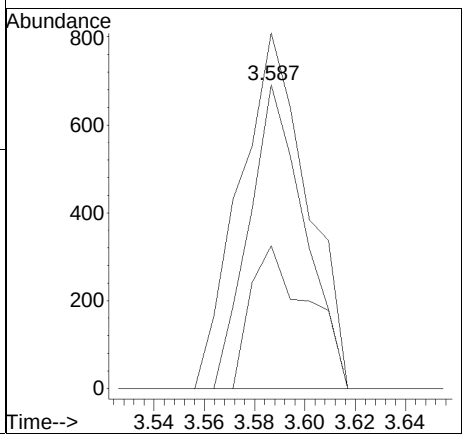




#15
Methylene chloride
Concen: 0.10 ug/L
RT: 3.587 min Scan# 330
Delta R.T. 0.008 min
Lab File: VG240624A05.D
Acq: 24 Jun 2024 9:37 am

Tgt Ion: 84 Resp: 1054

Ion	Ratio	Lower	Upper
84	100		
86	49.5	41.1	85.5
49	143.5	76.2	158.2



Manual Integration Report

Data Path	: K:\Gonzo\2024\240624A\	QMethod	: G_240509A_8260.m
Data File	: VG240624A05.D	Operator	: GONZO:PID
Date Inj'd	: 6/24/2024 9:37 am	Instrument	: Gonzo
Sample	: WG1938990-5,31,10,10	Quant Date	: 6/24/2024 10:13 am

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

Quantitation Report (QT Reviewed)

Data Path : K:\Gonzo\2024\240624A\
Data File : VG240624A01.D
Acq On : 24 Jun 2024 8:02 am
Operator : GONZO:PID
Sample : WG1938990-3,31,10,10 (Sig #1); 8260 CCAL (Sig #2)
Misc : WG1938990,ICAL21111 (Sig #1); WG,ICAL21111 (Sig #2)
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 24 08:28:52 2024
Quant Method : K:\Gonzo\2024\240624A\G_240509A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Fri May 10 11:02:54 2024
Response via : Initial Calibration

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

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	6.094	96	645622	10.000	ug/L	0.00
59) Chlorobenzene-d5	9.637	117	484370	10.000	ug/L	0.00
79) 1,4-Dichlorobenzene-d4	12.319	152	249984	10.000	ug/L	0.00
System Monitoring Compounds						
36) Dibromofluoromethane	5.288	113	159419	9.642	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 96.42%			
43) 1,2-Dichloroethane-d4	5.813	65	188116	9.483	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 94.83%			
60) Toluene-d8	7.786	98	618683	10.381	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 103.81%			
83) 4-Bromofluorobenzene	11.118	95	240247	11.951	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 119.51%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.680	85	169650	10.349	ug/L	99
3) Chloromethane	1.893	50	160713	9.951	ug/L	99
4) Vinyl chloride	1.953	62	130384	8.011	ug/L	100
5) Bromomethane	2.265	94	30255	2.015	ug/L	95
6) Chloroethane	2.371	64	56775	5.046	ug/L	96
7) Trichlorofluoromethane	2.523	101	213075	9.469	ug/L	98
10) 1,1-Dichloroethene	3.024	96	118426	10.381	ug/L #	79
11) Carbon disulfide	3.055	76	389282	10.772	ug/L	99
12) Freon-113	3.055	101	135161	10.417	ug/L #	73
15) Methylene chloride	3.587	84	131331	9.453	ug/L	78
17) Acetone	3.625	43	27617	7.724	ug/L	89
18) trans-1,2-Dichloroethene	3.731	96	127804	9.906	ug/L	83
19) Methyl acetate	3.739	43	66535	8.988	ug/L #	91
20) Methyl tert-butyl ether	3.822	73	297950	8.829	ug/L	89
23) 1,1-Dichloroethane	4.324	63	269262	10.492	ug/L	97
28) cis-1,2-Dichloroethene	4.840	96	144112	9.608	ug/L	88
30) Bromochloromethane	5.038	128	60419	8.922	ug/L #	73
31) Cyclohexane	5.030	56	303312	11.745	ug/L	73
32) Chloroform	5.106	83	234596	9.465	ug/L	98
34) Carbon tetrachloride	5.235	117	203194	10.523	ug/L	99
37) 1,1,1-Trichloroethane	5.304	97	221240	10.416	ug/L	96
39) 2-Butanone	5.402	43	44965	9.527	ug/L #	78
41) Benzene	5.676	78	558144	10.221	ug/L #	93
44) 1,2-Dichloroethane	5.881	62	172661	8.772	ug/L	99

Data Path : K:\Gonzo\2024\240624A\
Data File : VG240624A01.D
Acq On : 24 Jun 2024 8:02 am
Operator : GONZO:PID
Sample : WG1938990-3,31,10,10 (Sig #1); 8260 CCAL (Sig #2)
Misc : WG1938990,ICAL21111 (Sig #1); WG,ICAL21111 (Sig #2)
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 24 08:28:52 2024
Quant Method : K:\Gonzo\2024\240624A\G_240509A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Fri May 10 11:02:54 2024
Response via : Initial Calibration

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

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
47) Methyl cyclohexane	6.253	83	239311	11.023	ug/L	#	69
48) Trichloroethene	6.276	95	142199	8.664	ug/L		97
51) 1,2-Dichloropropane	6.823	63	148753	10.575	ug/L		95
54) Bromodichloromethane	6.899	83	175511	9.108	ug/L		99
57) 1,4-Dioxane	7.099	88	50223	414.674	ug/L	#	80
58) cis-1,3-Dichloropropene	7.586	75	204663	9.656	ug/L		97
61) Toluene	7.843	92	339259	10.302	ug/L		99
62) 4-Methyl-2-pentanone	8.280	58	38391	10.419	ug/L	#	92
63) Tetrachloroethene	8.295	166	133837	10.428	ug/L		96
65) trans-1,3-Dichloropropene	8.338	75	177891	9.980	ug/L		100
68) 1,1,2-Trichloroethane	8.524	83	83991	9.088	ug/L		96
69) Chlorodibromomethane	8.739	129	123605	9.006	ug/L		99
71) 1,2-Dibromoethane	9.011	107	97792	9.262	ug/L		100
72) 2-Hexanone	9.298	43	60116	9.776	ug/L		98
73) Chlorobenzene	9.662	112	356201	9.578	ug/L		96
74) Ethylbenzene	9.695	91	636294	9.923	ug/L		98
76) p/m Xylene	9.876	106	490785	18.387	ug/L		94
77) o Xylene	10.419	106	464868	17.474	ug/L		94
78) Styrene	10.484	104	770299	18.246	ug/L		95
80) Bromoform	10.517	173	69214	8.487	ug/L		99
82) Isopropylbenzene	10.789	105	611148	10.213	ug/L		97
87) 1,1,2,2-Tetrachloroethane	11.365	83	120698	10.982	ug/L		99
100) 1,3-Dichlorobenzene	12.245	146	270008	9.762	ug/L		97
101) 1,4-Dichlorobenzene	12.335	146	276262	9.659	ug/L		97
104) 1,2-Dichlorobenzene	12.763	146	246260	9.481	ug/L		97
106) 1,2-Dibromo-3-chloropr...	13.536	155	16586	8.421	ug/L		97
109) 1,2,4-Trichlorobenzene	14.161	180	123361	9.059	ug/L		98
111) 1,2,3-Trichlorobenzene	14.622	180	92686	8.278	ug/L		98

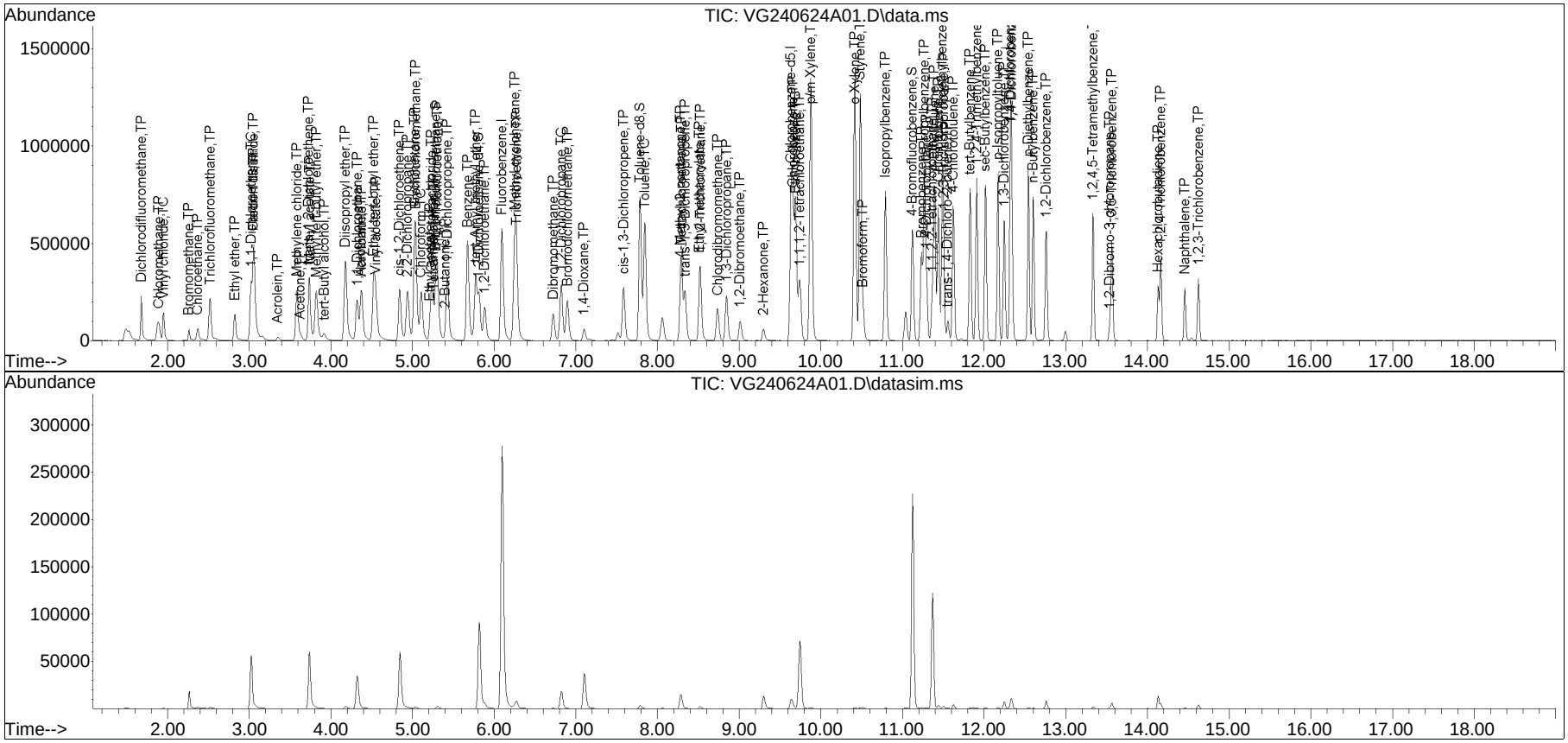
(#) = qualifier out of range (m) = manual integration (+) = signals summed

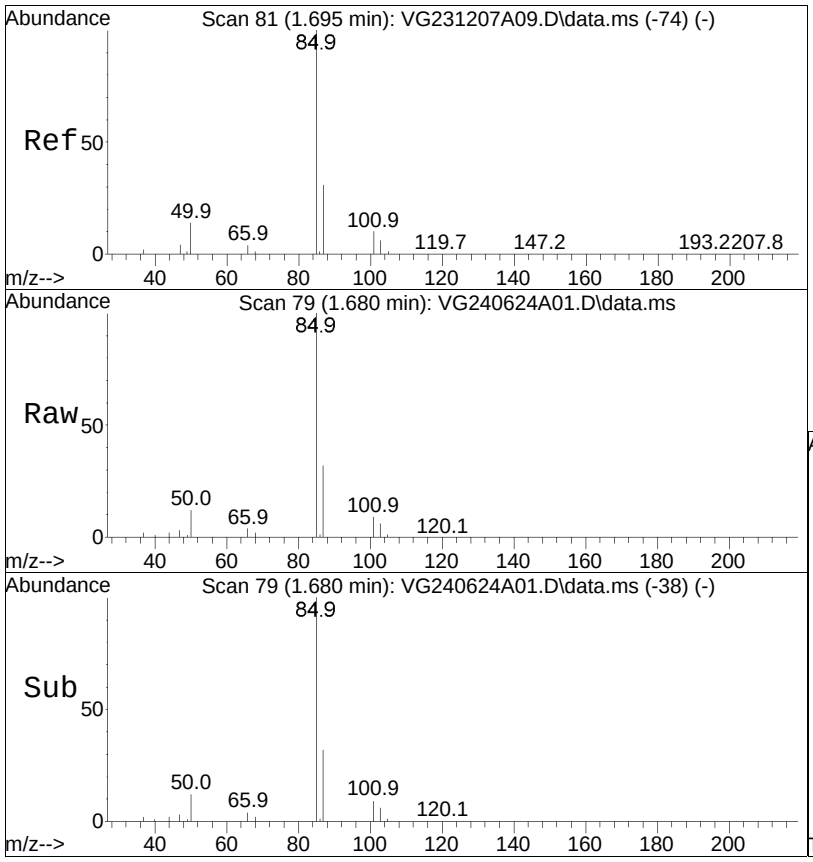
Quantitation Report (QT Reviewed)

Data Path : K:\Gonzo\2024\240624A\
Data File : VG240624A01.D
Acq On : 24 Jun 2024 8:02 am
Operator : GONZO:PID
Sample : WG1938990-3,31,10,10 (Sig #1); 8260 CCAL (Sig #2)
Misc : WG1938990,ICAL21111 (Sig #1); WG,ICAL21111 (Sig #2)
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 24 08:28:52 2024
Quant Method : K:\Gonzo\2024\240624A\G_240509A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Fri May 10 11:02:54 2024
Response via : Initial Calibration

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

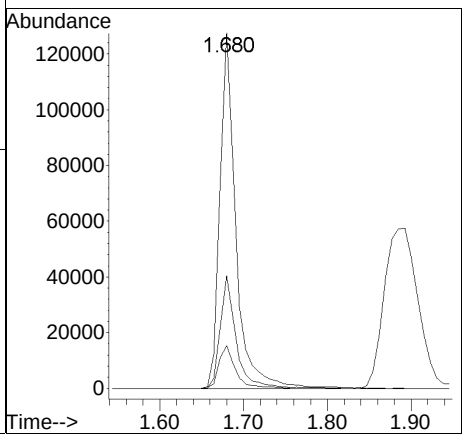


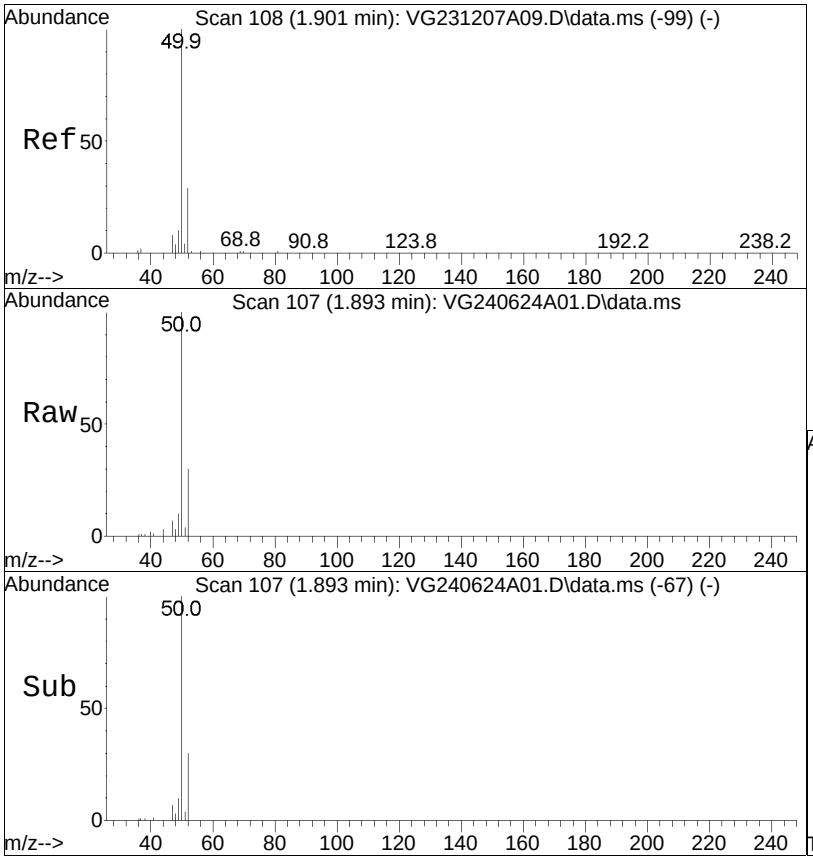


#2
Dichlorodifluoromethane
Concen: 10.35 ug/L
RT: 1.680 min Scan# 79
Delta R.T. 0.008 min
Lab File: VG240624A01.D
Acq: 24 Jun 2024 8:02 am

Tgt Ion: 85 Resp: 169650

Ion	Ratio	Lower	Upper
85	100		
87	31.7	20.7	42.9
50	12.4	7.5	15.5

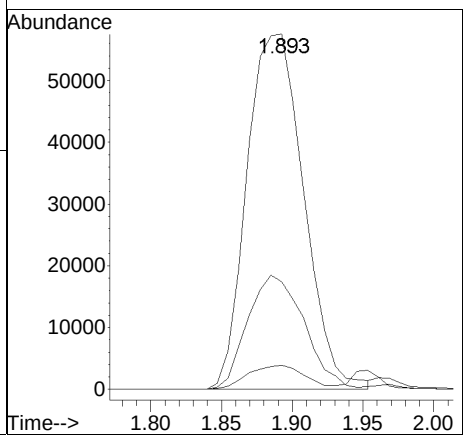


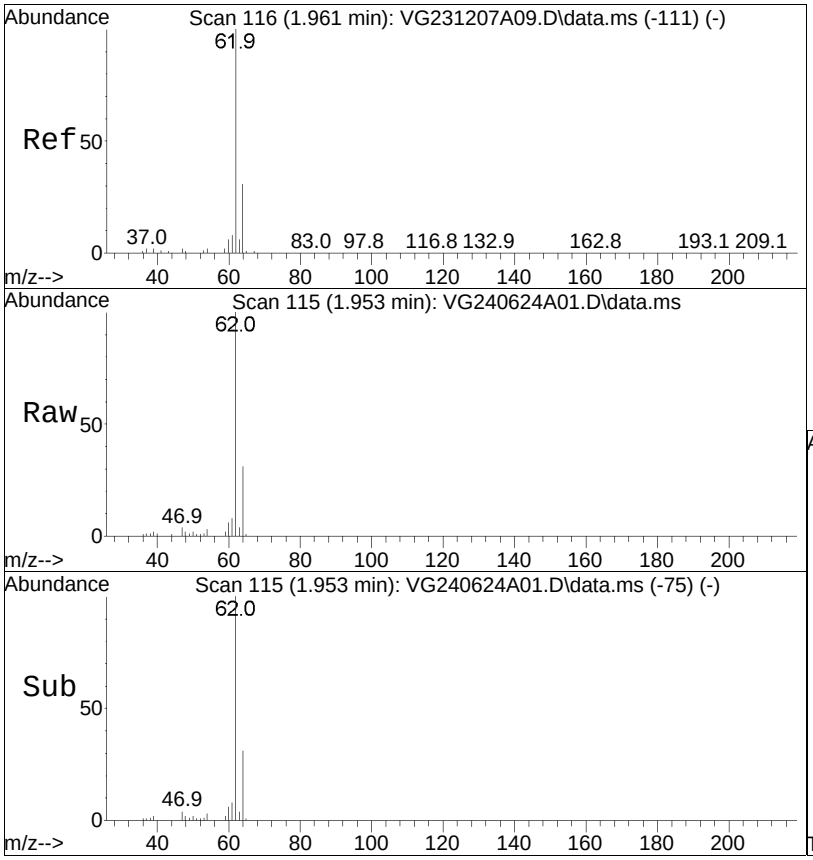


#3
Chloromethane
Concen: 9.95 ug/L
RT: 1.893 min Scan# 107
Delta R.T. 0.008 min
Lab File: VG240624A01.D
Acq: 24 Jun 2024 8:02 am

Tgt Ion: 50 Resp: 160713

Ion	Ratio	Lower	Upper
50	100		
52	32.0	11.7	51.7
47	6.9	0.0	28.0

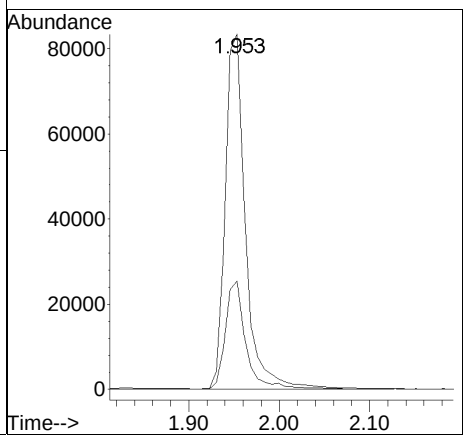


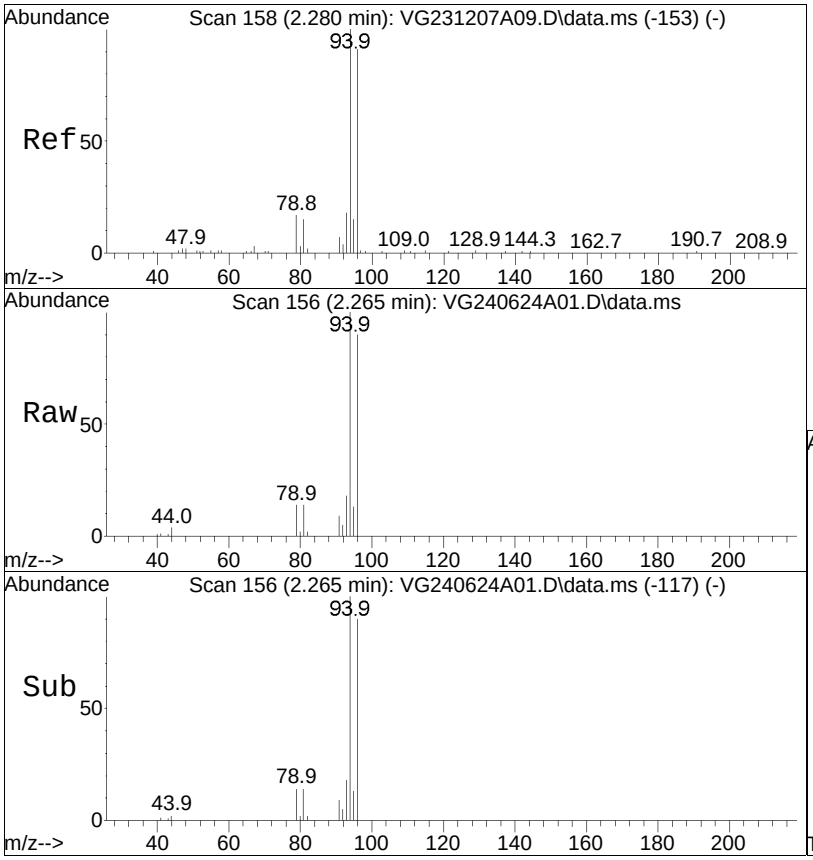


#4
Vinyl chloride
Concen: 8.01 ug/L
RT: 1.953 min Scan# 115
Delta R.T. 0.007 min
Lab File: VG240624A01.D
Acq: 24 Jun 2024 8:02 am

Tgt Ion: 62 Resp: 130384

Ion	Ratio	Lower	Upper
62	100		
64	31.1	11.3	51.3

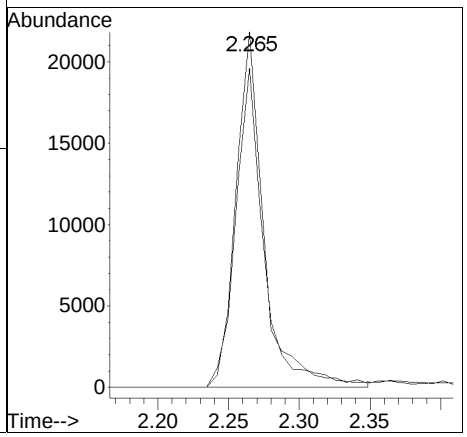


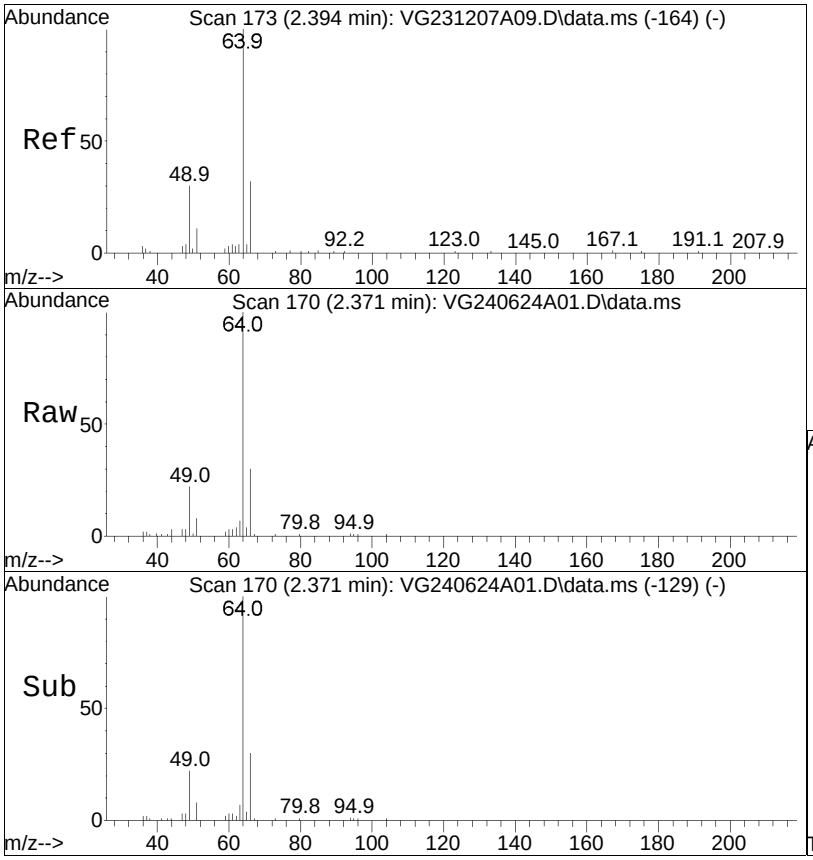


#5
Bromomethane
Concen: 2.02 ug/L
RT: 2.265 min Scan# 156
Delta R.T. -0.000 min
Lab File: VG240624A01.D
Acq: 24 Jun 2024 8:02 am

Tgt Ion: 94 Resp: 30255

Ion	Ratio	Lower	Upper
94	100		
96	90.4	75.2	115.2

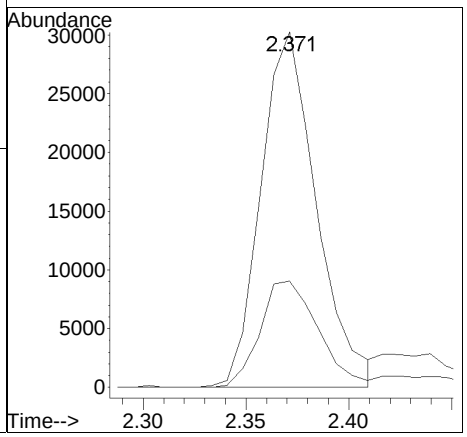


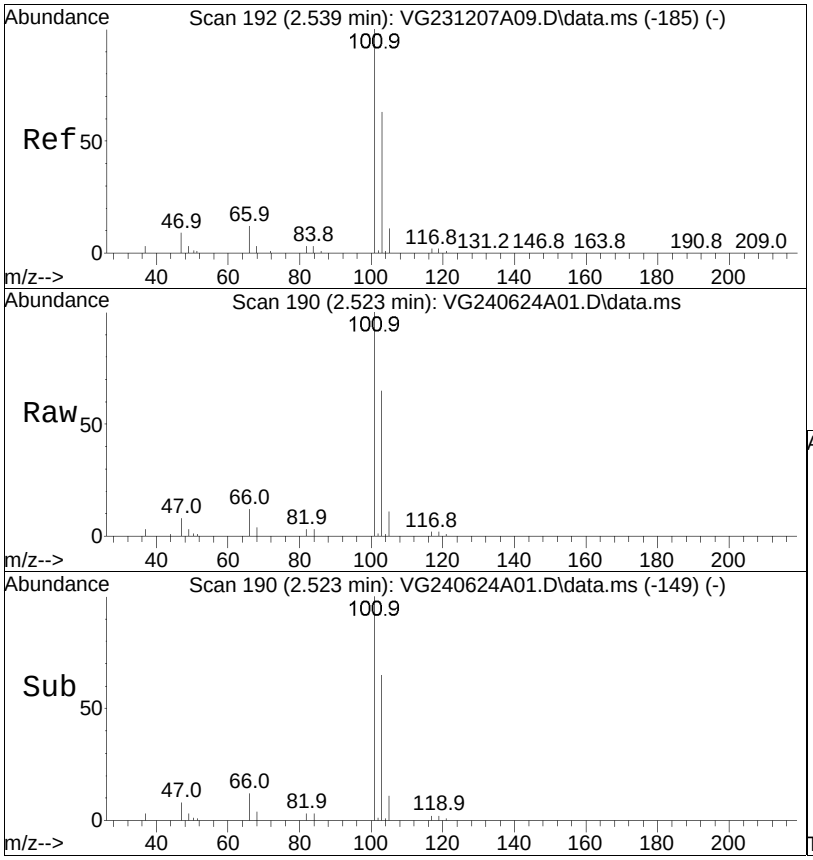


#6
Chloroethane
Concen: 5.05 ug/L
RT: 2.371 min Scan# 170
Delta R.T. 0.008 min
Lab File: VG240624A01.D
Acq: 24 Jun 2024 8:02 am

Tgt Ion: 64 Resp: 56775

Ion	Ratio	Lower	Upper
64	100		
66	31.5	13.7	53.7

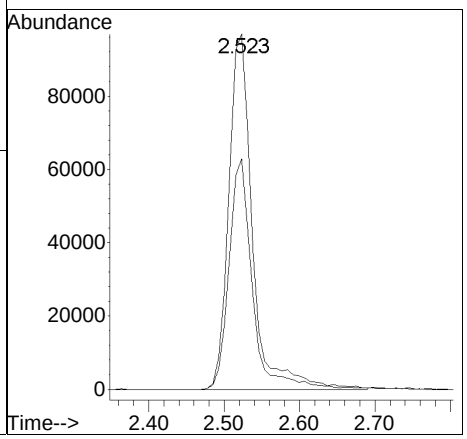


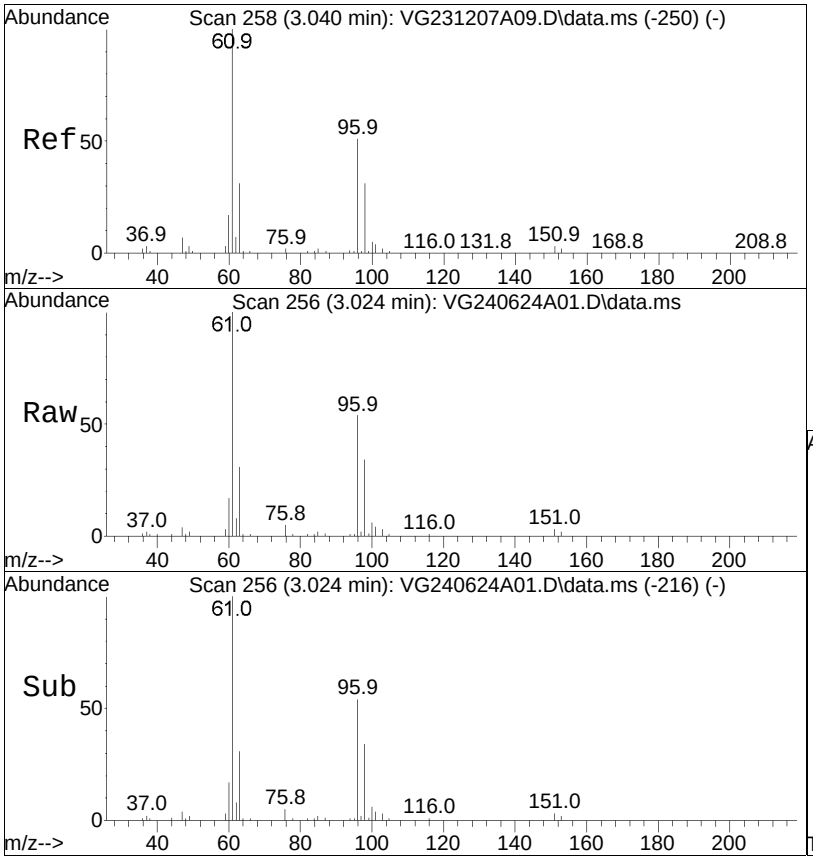


#7
Trichlorofluoromethane
Concen: 9.47 ug/L
RT: 2.523 min Scan# 190
Delta R.T. 0.008 min
Lab File: VG240624A01.D
Acq: 24 Jun 2024 8:02 am

Tgt Ion:101 Resp: 213075

Ion	Ratio	Lower	Upper
101	100		
103	63.5	52.2	78.2

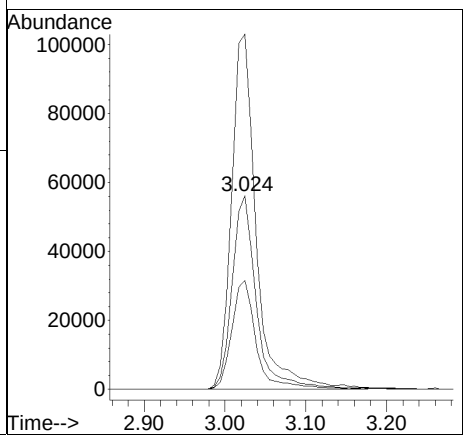


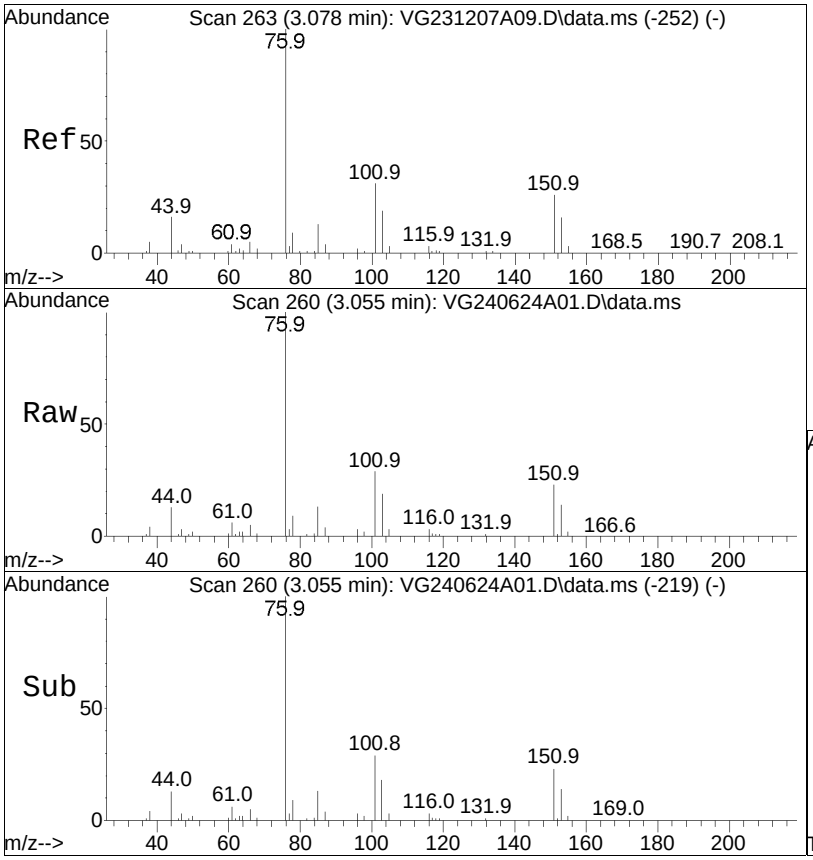


#10
1,1-Dichloroethene
Concen: 10.38 ug/L
RT: 3.024 min Scan# 256
Delta R.T. 0.007 min
Lab File: VG240624A01.D
Acq: 24 Jun 2024 8:02 am

Tgt Ion: 96 Resp: 118426

Ion	Ratio	Lower	Upper
96	100		
61	186.9	124.2	186.4#
63	56.8	40.0	60.0

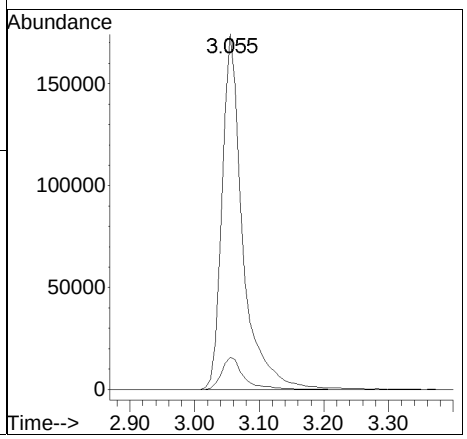


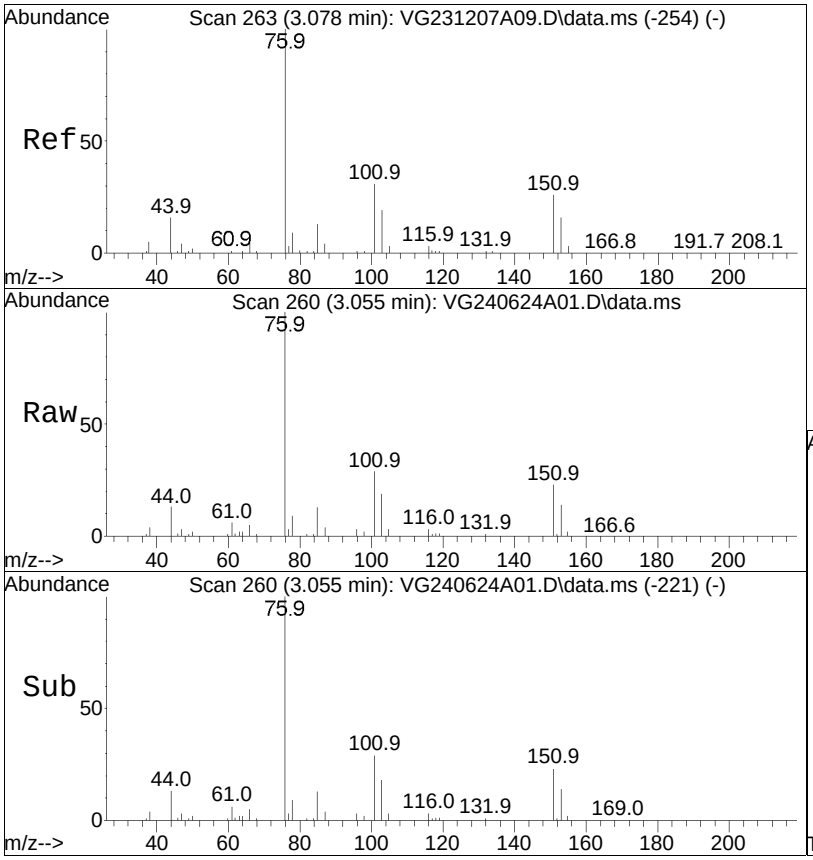


#11
Carbon disulfide
Concen: 10.77 ug/L
RT: 3.055 min Scan# 260
Delta R.T. 0.008 min
Lab File: VG240624A01.D
Acq: 24 Jun 2024 8:02 am

Tgt Ion: 76 Resp: 389282

Ion	Ratio	Lower	Upper
76	100		
78	9.6	6.6	13.6

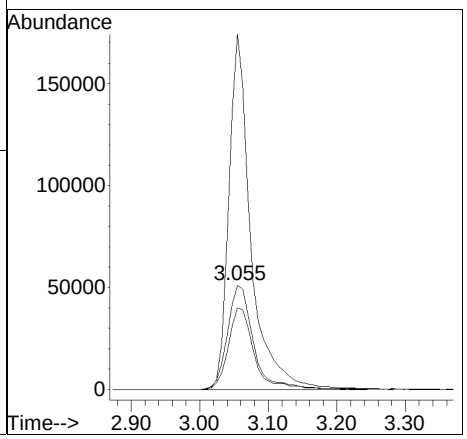


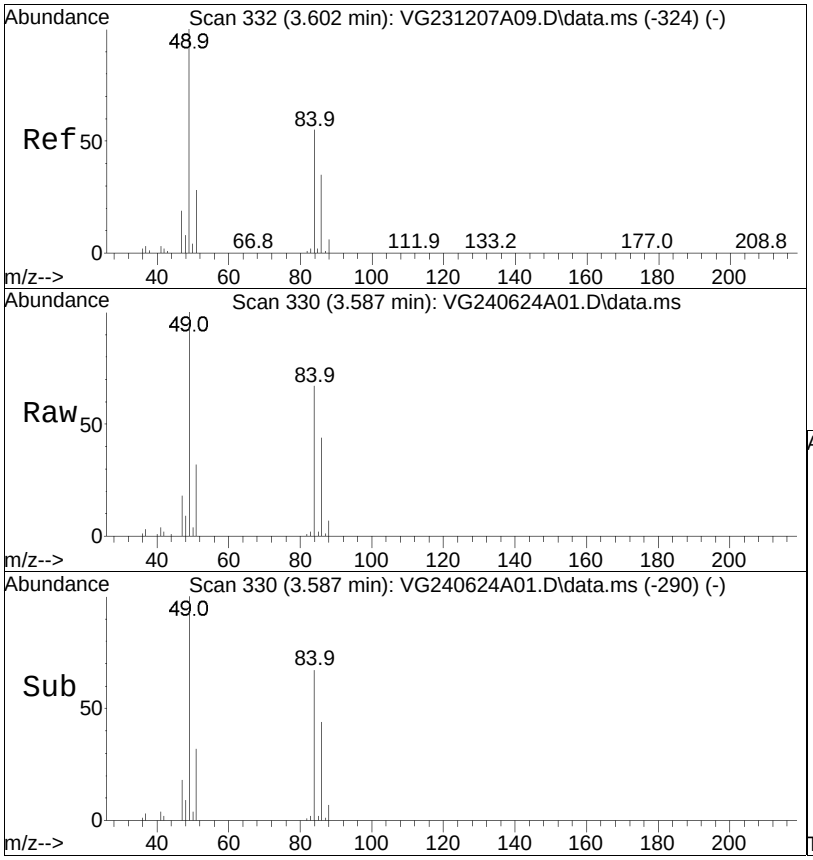


#12
Freon-113
Concen: 10.42 ug/L
RT: 3.055 min Scan# 260
Delta R.T. -0.000 min
Lab File: VG240624A01.D
Acq: 24 Jun 2024 8:02 am

Tgt Ion:101 Resp: 135161

Ion	Ratio	Lower	Upper
101	100		
151	77.1	68.2	102.2
76	288.0	186.0	279.0#

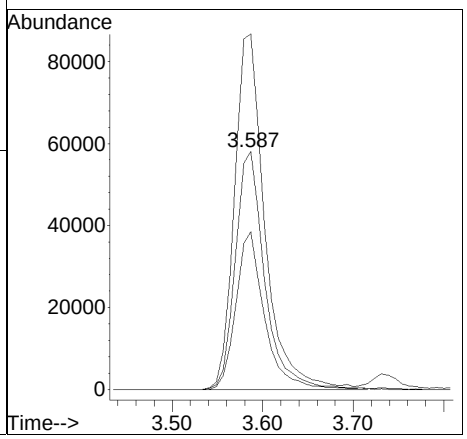


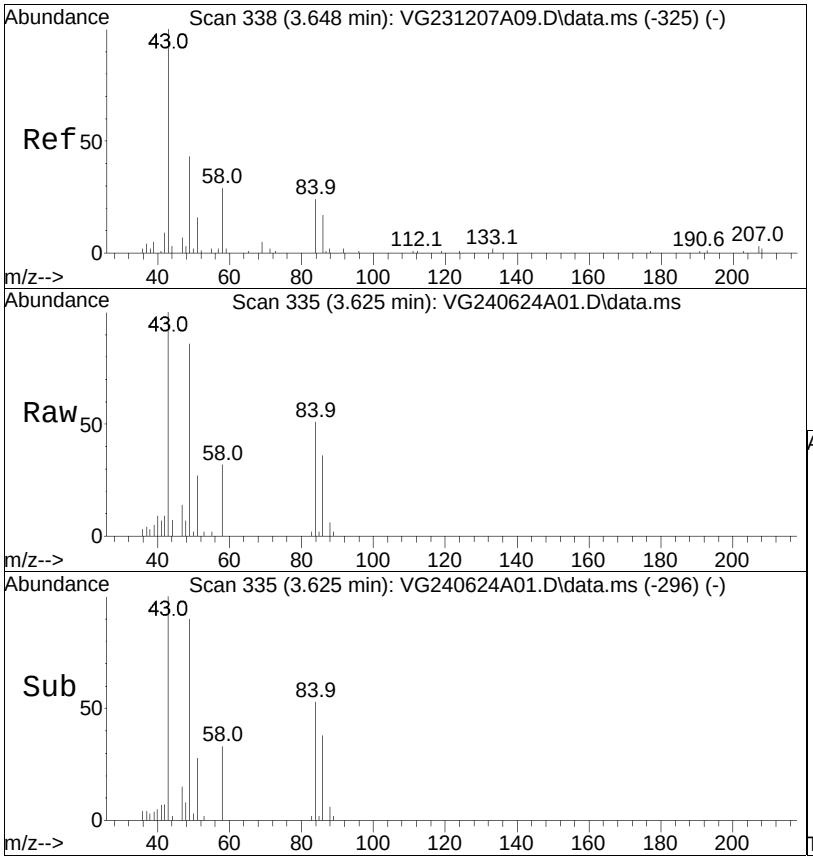


#15
Methylene chloride
Concen: 9.45 ug/L
RT: 3.587 min Scan# 330
Delta R.T. 0.008 min
Lab File: VG240624A01.D
Acq: 24 Jun 2024 8:02 am

Tgt Ion: 84 Resp: 131331

Ion	Ratio	Lower	Upper
84	100		
86	64.6	41.1	85.5
49	153.9	76.2	158.2

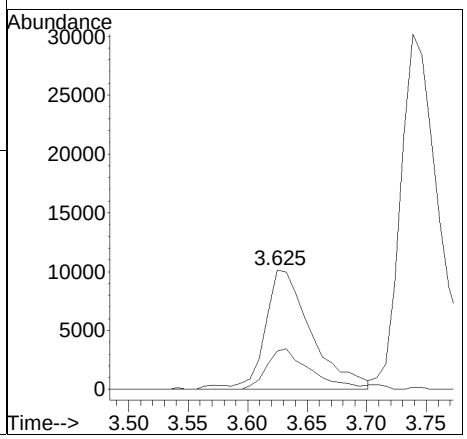


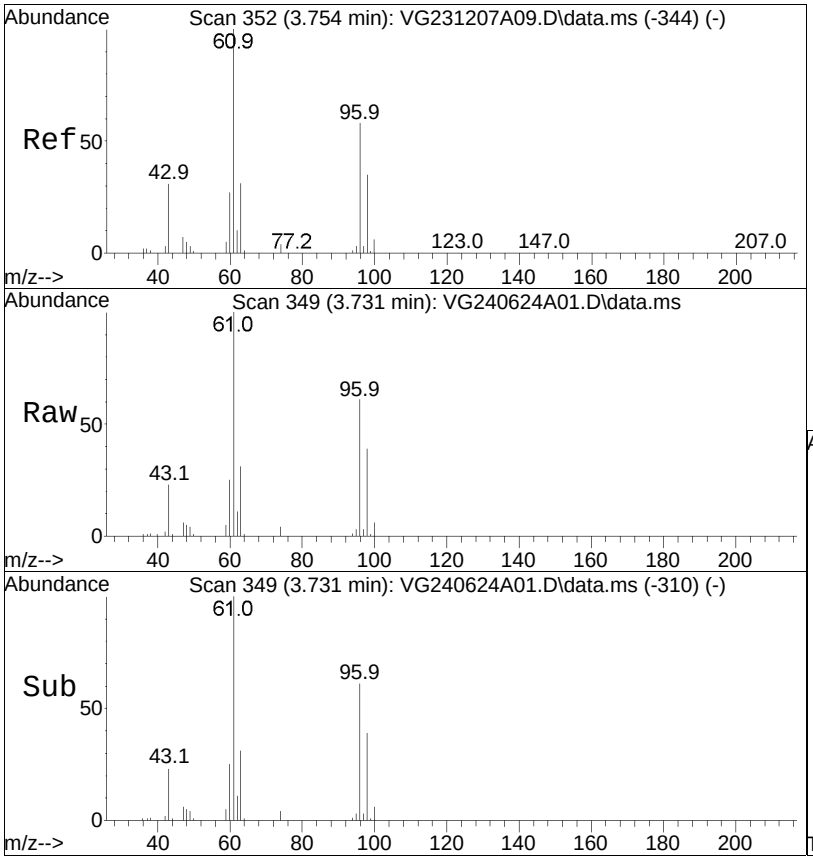


#17
Acetone
Concen: 7.72 ug/L
RT: 3.625 min Scan# 335
Delta R.T. -0.000 min
Lab File: VG240624A01.D
Acq: 24 Jun 2024 8:02 am

Tgt Ion: 43 Resp: 27617

Ion	Ratio	Lower	Upper
43	100		
58	33.4	22.2	33.4

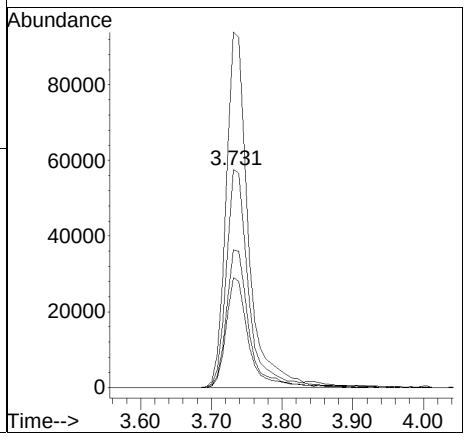


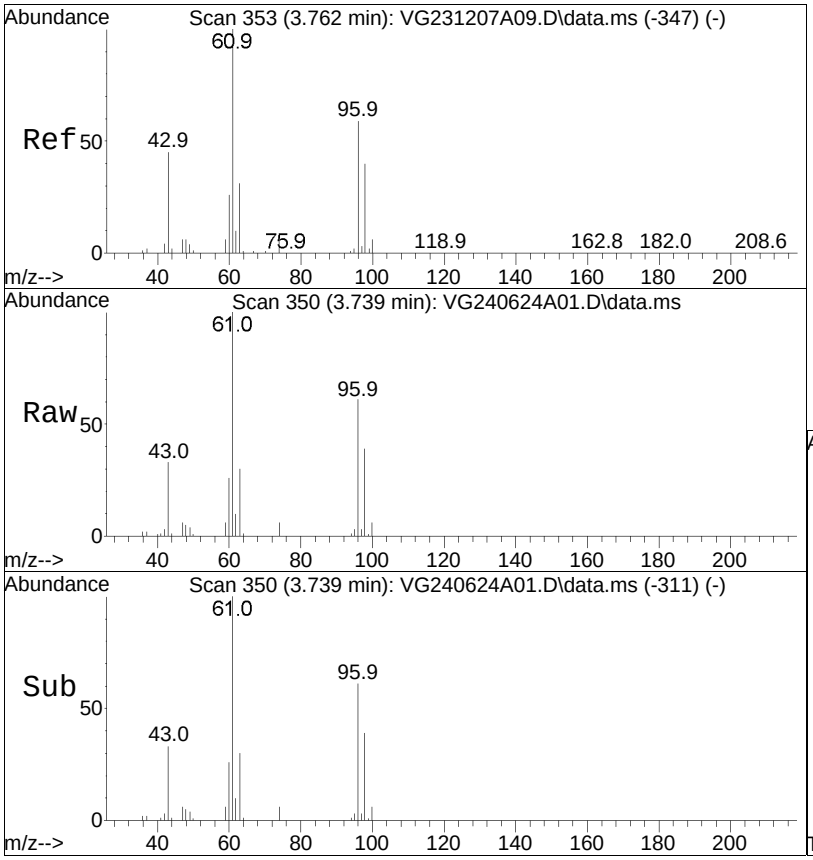


#18
trans-1,2-Dichloroethene
Concen: 9.91 ug/L
RT: 3.731 min Scan# 349
Delta R.T. 0.000 min
Lab File: VG240624A01.D
Acq: 24 Jun 2024 8:02 am

Tgt Ion: 96 Resp: 127804

Ion	Ratio	Lower	Upper
96	100		
61	162.4	85.7	178.1
98	63.5	40.2	83.4
63	49.8	28.0	58.2

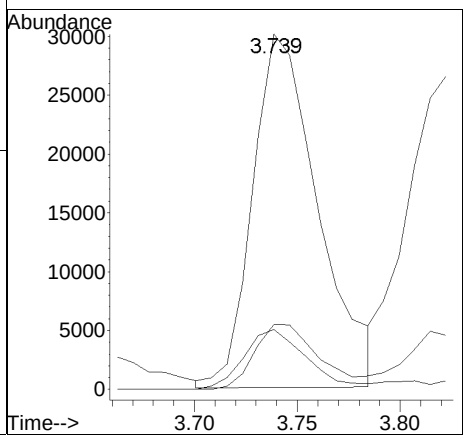


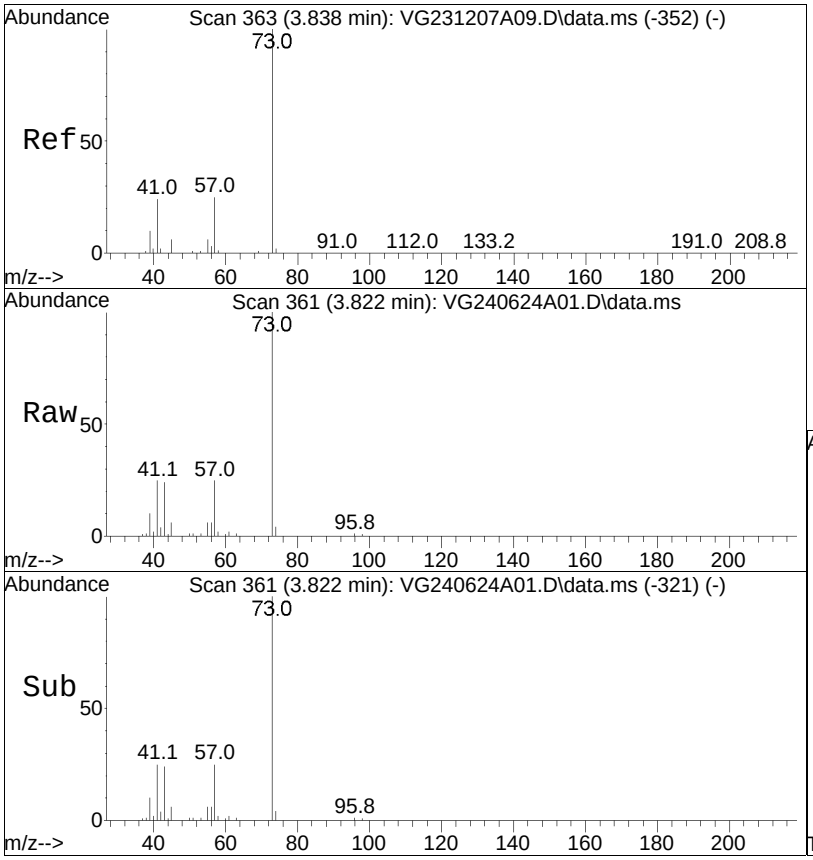


#19
Methyl acetate
Concen: 8.99 ug/L
RT: 3.739 min Scan# 350
Delta R.T. -0.000 min
Lab File: VG240624A01.D
Acq: 24 Jun 2024 8:02 am

Tgt Ion: 43 Resp: 66535

Ion	Ratio	Lower	Upper
43	100		
74	17.7	19.3	28.9#
59	16.3	13.9	20.9

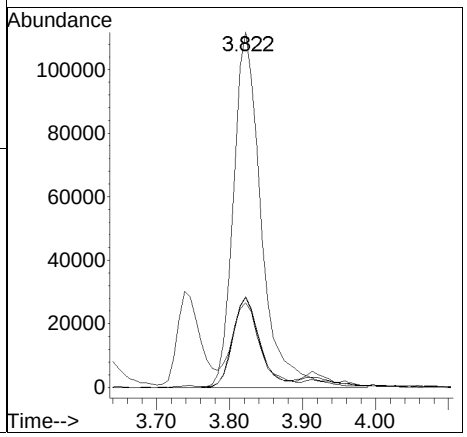


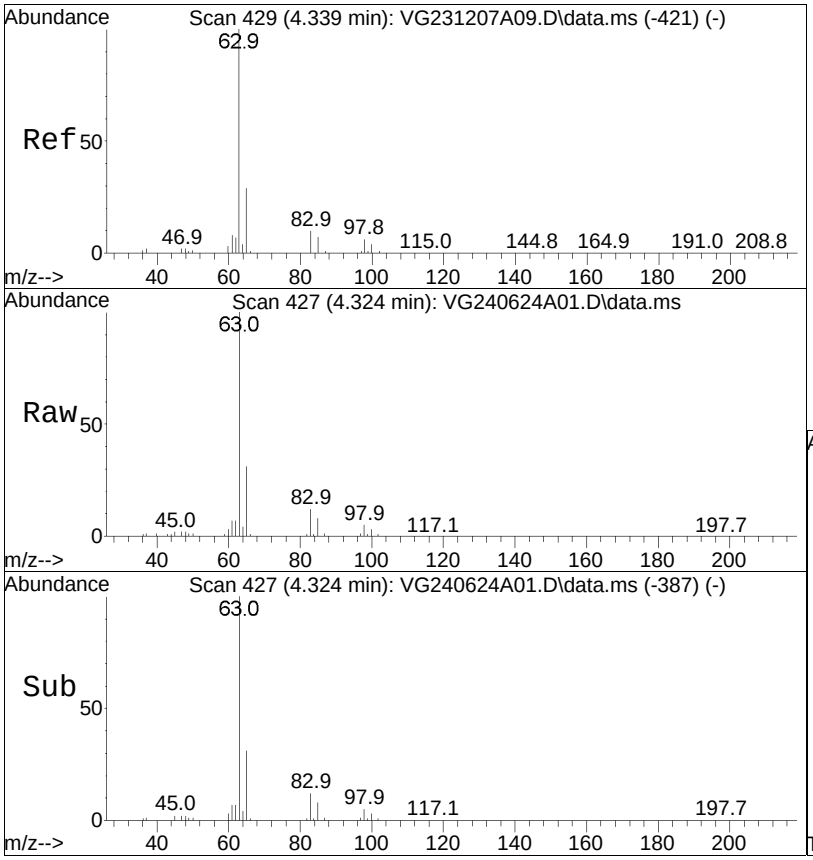


#20
Methyl tert-butyl ether
Concen: 8.83 ug/L
RT: 3.822 min Scan# 361
Delta R.T. 0.000 min
Lab File: VG240624A01.D
Acq: 24 Jun 2024 8:02 am

Tgt Ion: 73 Resp: 297950

Ion	Ratio	Lower	Upper
73	100		
57	25.3	12.5	26.1
43	24.2	13.0	27.0
41	23.8	12.5	26.1

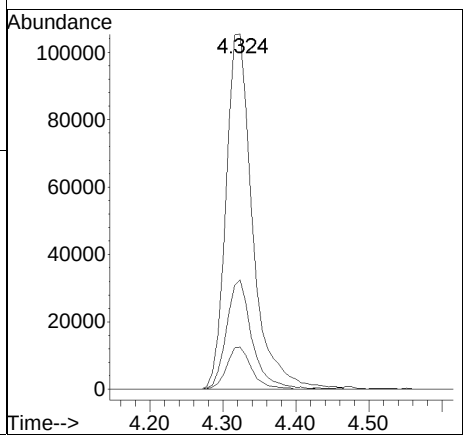


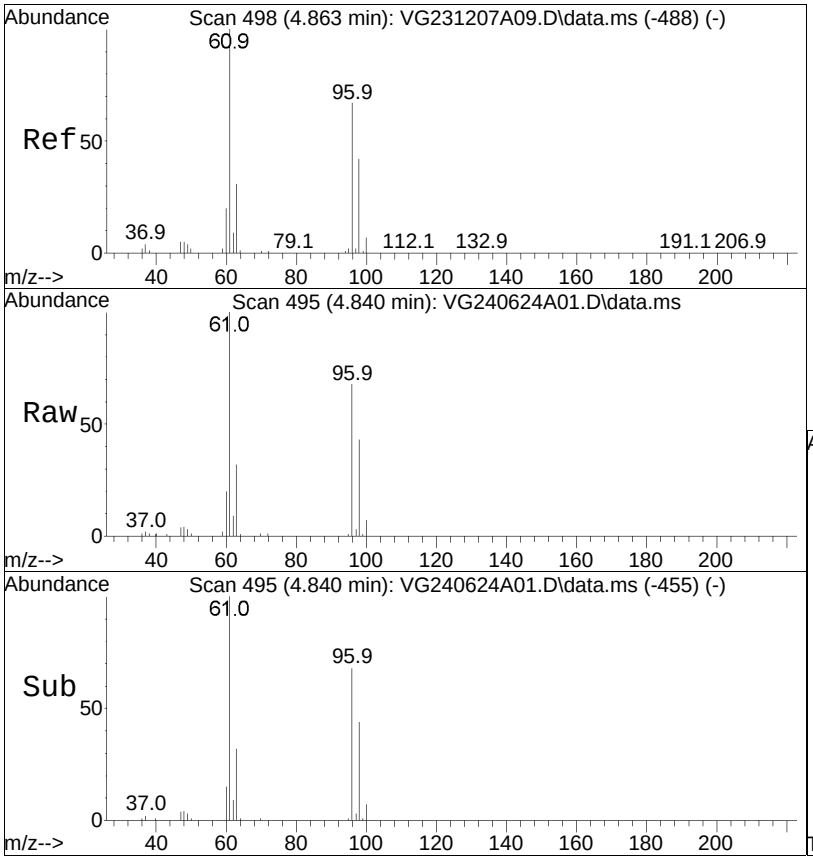


#23
1,1-Dichloroethane
Concen: 10.49 ug/L
RT: 4.324 min Scan# 427
Delta R.T. 0.008 min
Lab File: VG240624A01.D
Acq: 24 Jun 2024 8:02 am

Tgt Ion: 63 Resp: 269262

Ion	Ratio	Lower	Upper
63	100		
65	29.6	10.4	50.4
83	11.2	0.0	33.2

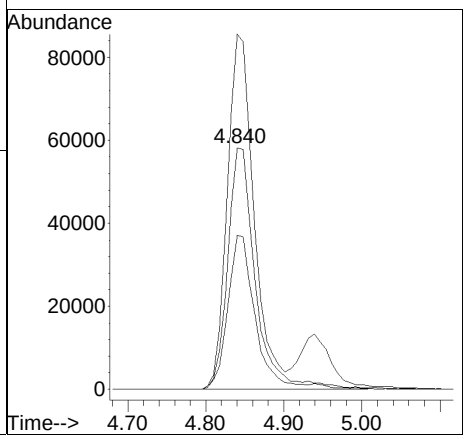


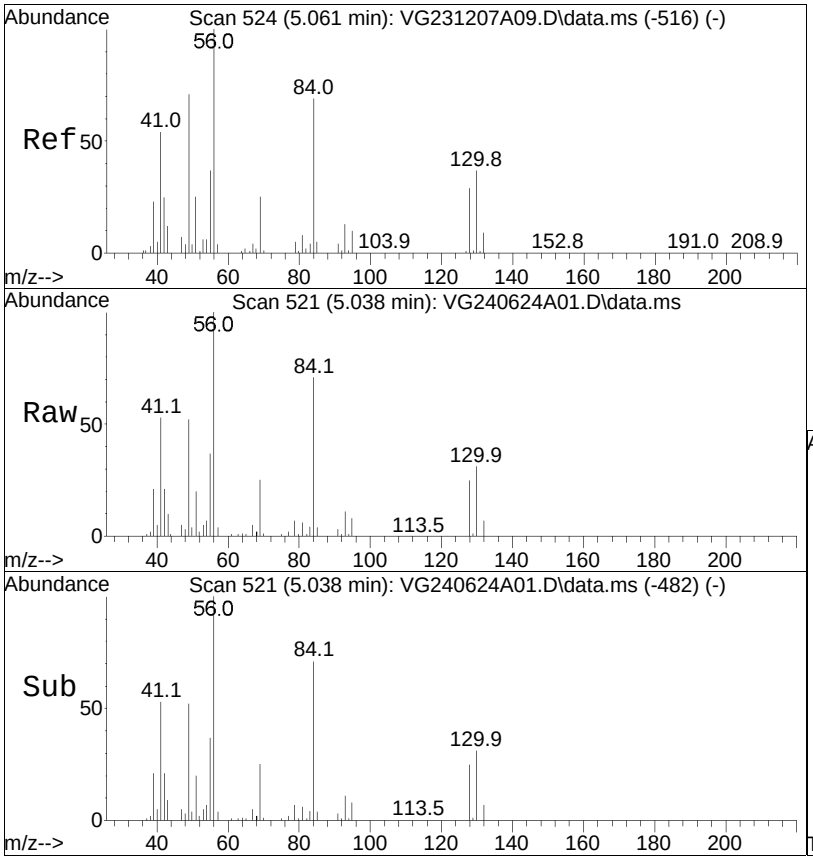


#28
cis-1,2-Dichloroethene
Concen: 9.61 ug/L
RT: 4.840 min Scan# 495
Delta R.T. 0.000 min
Lab File: VG240624A01.D
Acq: 24 Jun 2024 8:02 am

Tgt Ion: 96 Resp: 144112

Ion	Ratio	Lower	Upper
96	100		
61	140.7	96.6	144.8
98	62.4	51.3	76.9

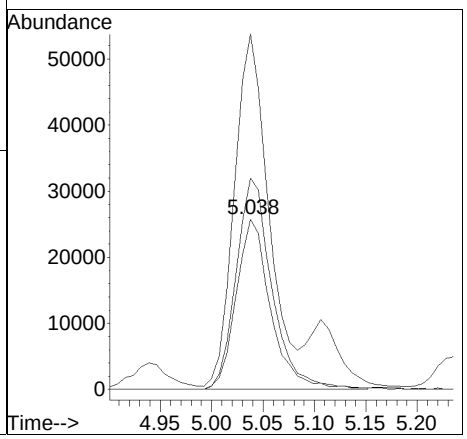


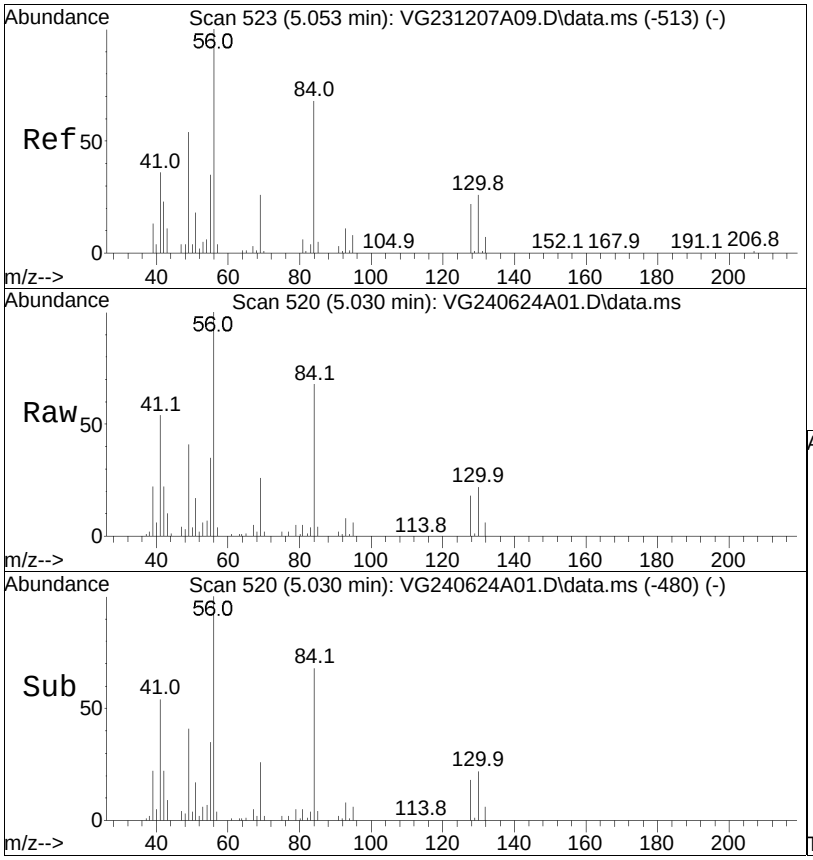


#30
Bromochloromethane
Concen: 8.92 ug/L
RT: 5.038 min Scan# 521
Delta R.T. -0.000 min
Lab File: VG240624A01.D
Acq: 24 Jun 2024 8:02 am

Tgt Ion:128 Resp: 60419

Ion	Ratio	Lower	Upper
128	100		
49	203.1	112.7	169.1#
130	128.2	103.3	154.9

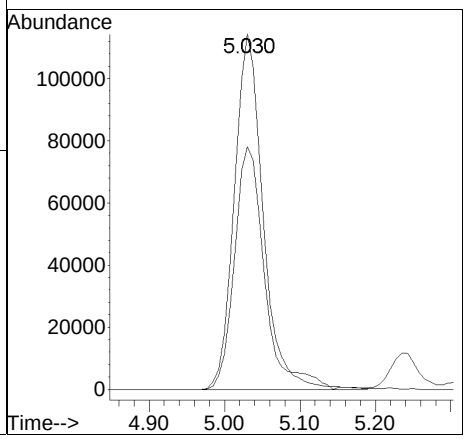


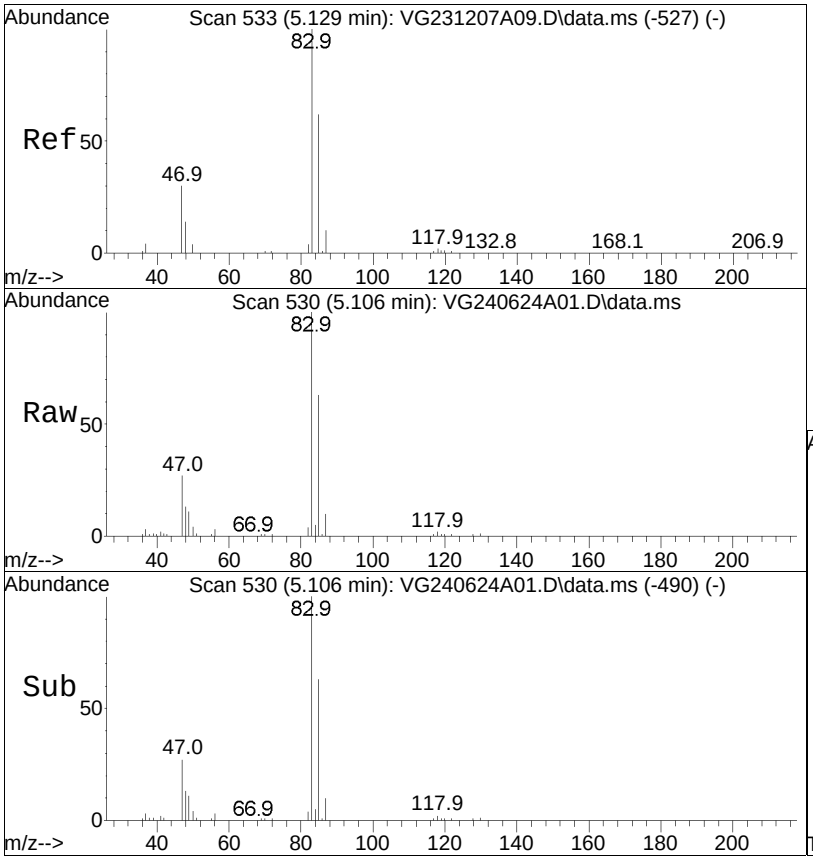


#31
Cyclohexane
Concen: 11.75 ug/L
RT: 5.030 min Scan# 520
Delta R.T. 0.000 min
Lab File: VG240624A01.D
Acq: 24 Jun 2024 8:02 am

Tgt Ion: 56 Resp: 303312

Ion	Ratio	Lower	Upper
56	100		
84	71.8	63.8	132.4

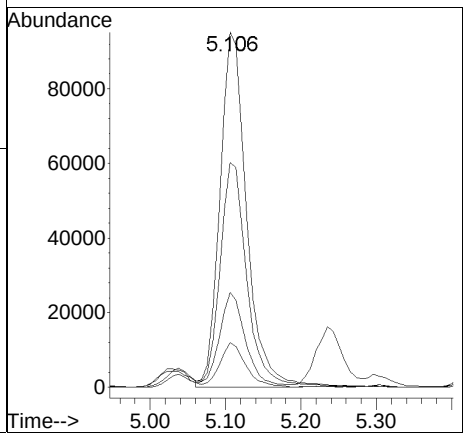


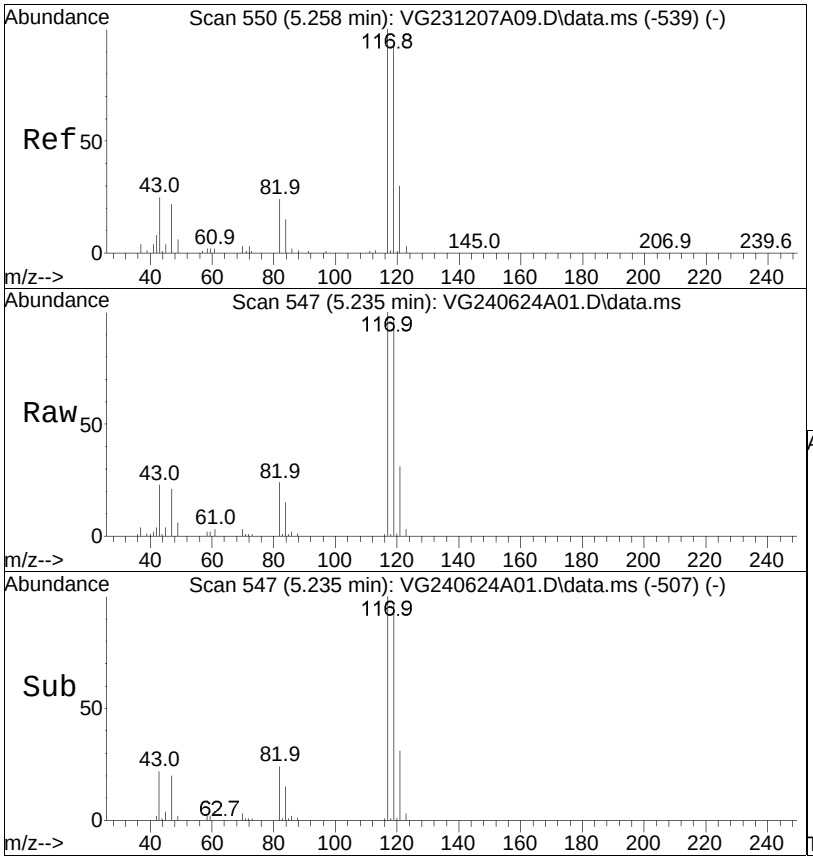


#32
Chloroform
Concen: 9.47 ug/L
RT: 5.106 min Scan# 530
Delta R.T. 0.000 min
Lab File: VG240624A01.D
Acq: 24 Jun 2024 8:02 am

Tgt Ion: 83 Resp: 234596

Ion	Ratio	Lower	Upper
83	100		
85	63.1	41.4	86.0
47	25.7	15.1	31.3
48	12.3	7.7	16.1

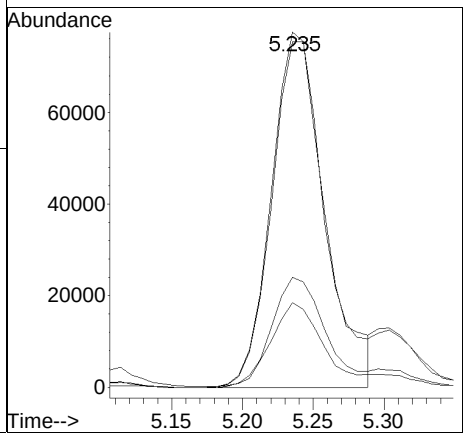


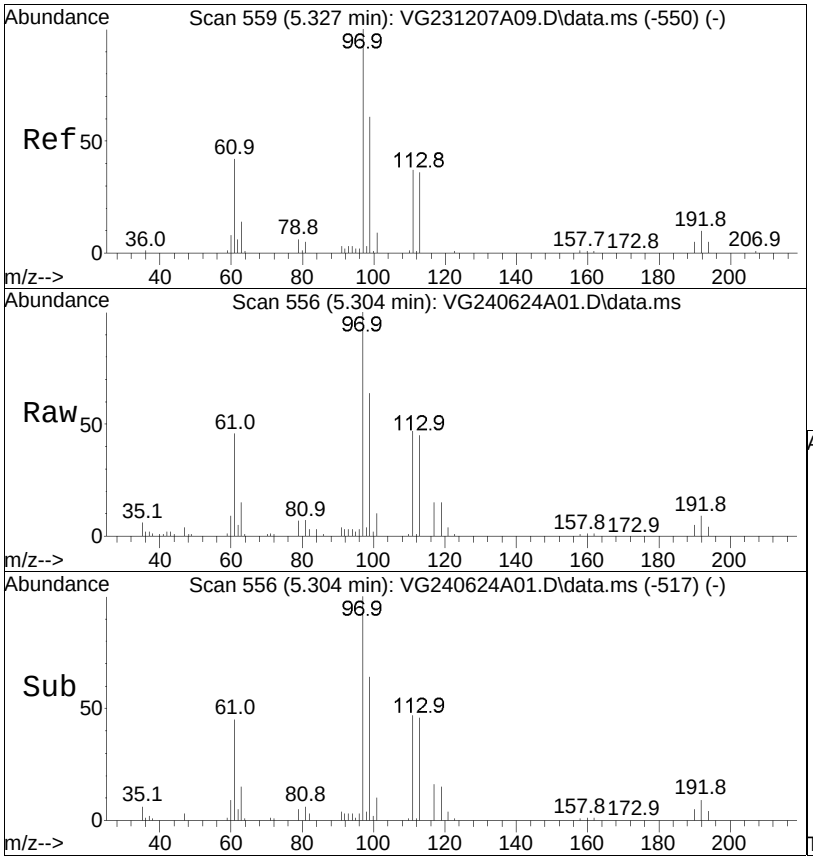


#34
Carbon tetrachloride
Concen: 10.52 ug/L
RT: 5.235 min Scan# 547
Delta R.T. 0.000 min
Lab File: VG240624A01.D
Acq: 24 Jun 2024 8:02 am

Tgt Ion:117 Resp: 203194

Ion	Ratio	Lower	Upper
117	100		
119	97.6	63.2	131.2
121	31.5	20.4	42.4
82	26.7	15.4	32.0

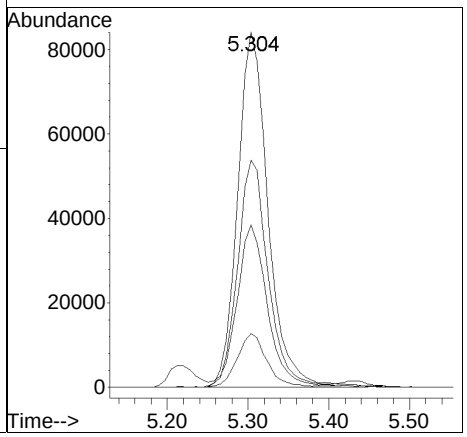


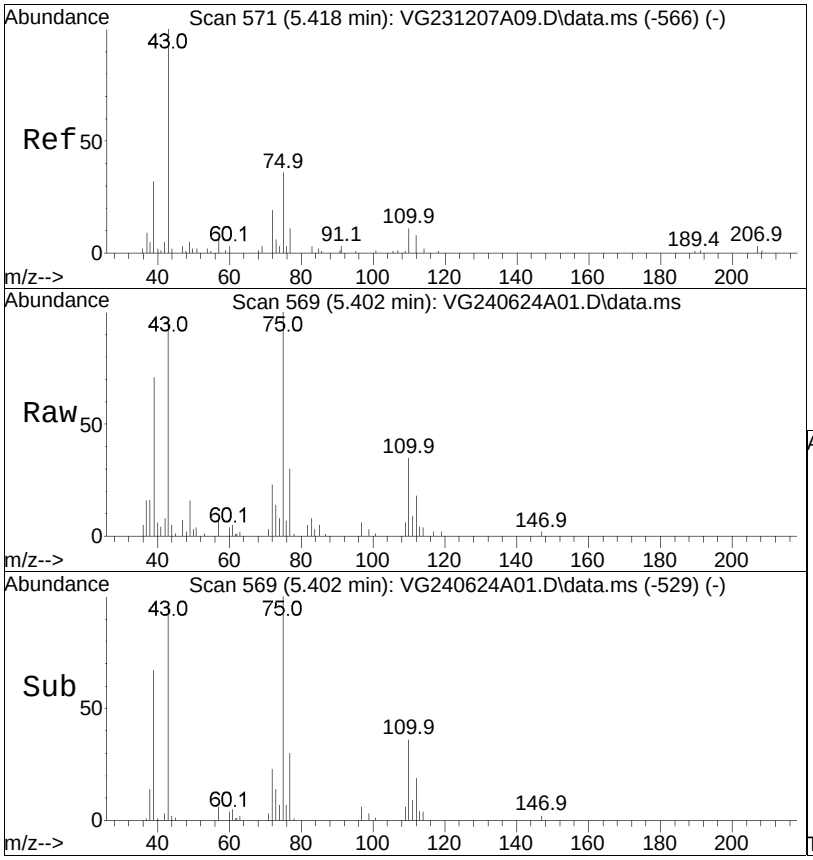


#37
1,1,1-Trichloroethane
Concen: 10.42 ug/L
RT: 5.304 min Scan# 556
Delta R.T. -0.000 min
Lab File: VG240624A01.D
Acq: 24 Jun 2024 8:02 am

Tgt Ion: 97 Resp: 221240

Ion	Ratio	Lower	Upper
97	100		
99	64.3	41.3	85.7
61	45.7	26.0	54.0
63	14.8	8.6	18.0

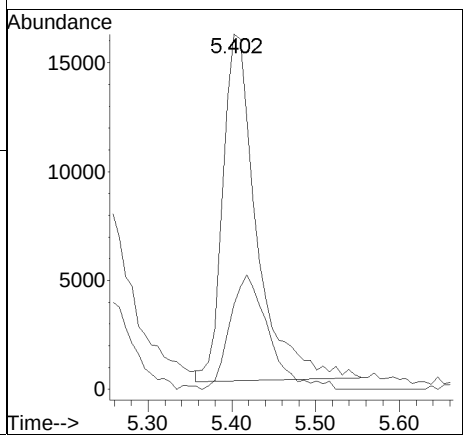


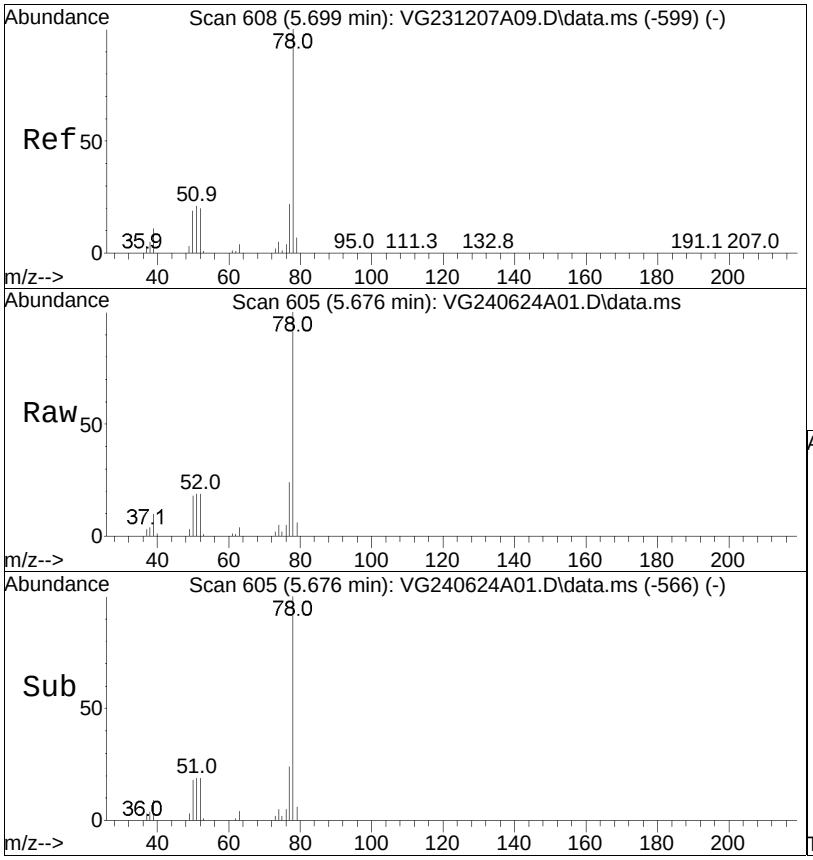


#39
2-Butanone
Concen: 9.53 ug/L
RT: 5.402 min Scan# 569
Delta R.T. 0.000 min
Lab File: VG240624A01.D
Acq: 24 Jun 2024 8:02 am

Tgt Ion: 43 Resp: 44965

Ion	Ratio	Lower	Upper
43	100		
72	37.8	42.6	63.8#

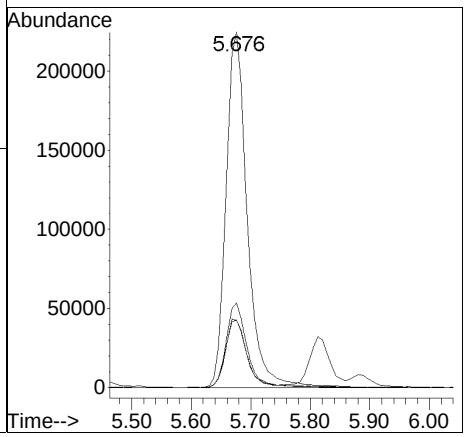


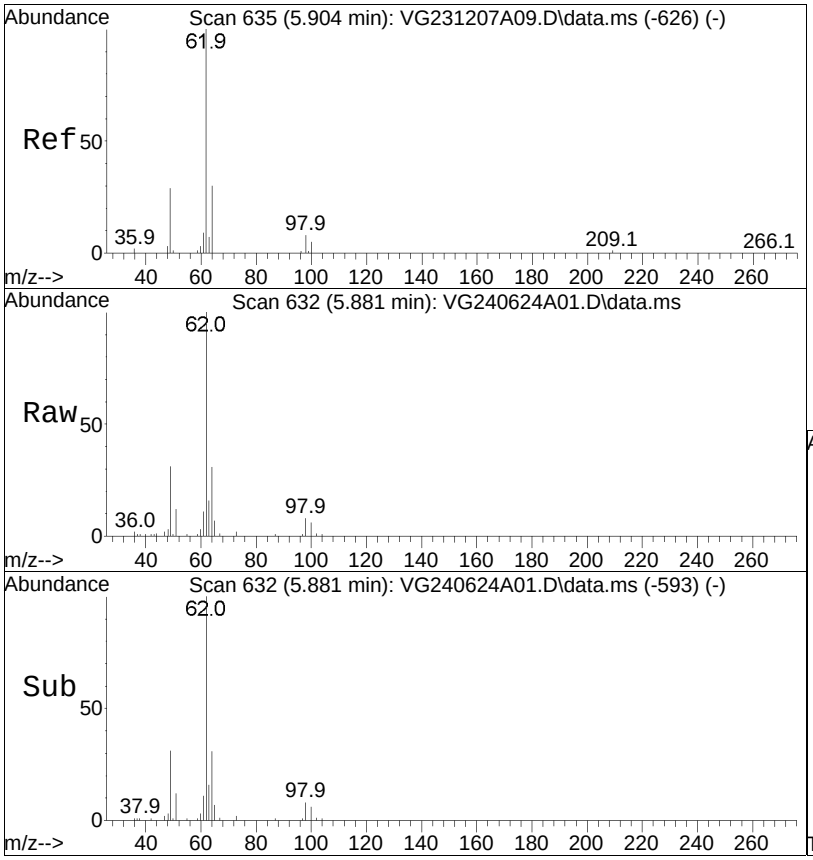


#41
Benzene
Concen: 10.22 ug/L
RT: 5.676 min Scan# 605
Delta R.T. -0.000 min
Lab File: VG240624A01.D
Acq: 24 Jun 2024 8:02 am

Tgt Ion: 78 Resp: 558144

Ion	Ratio	Lower	Upper
78	100		
77	23.3	15.5	32.1
51	19.0	9.9	20.7
52	19.9	9.2	19.2#

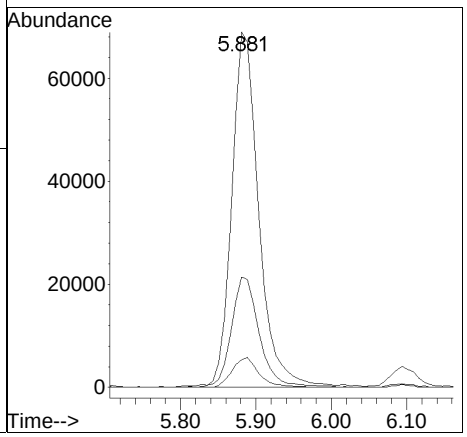


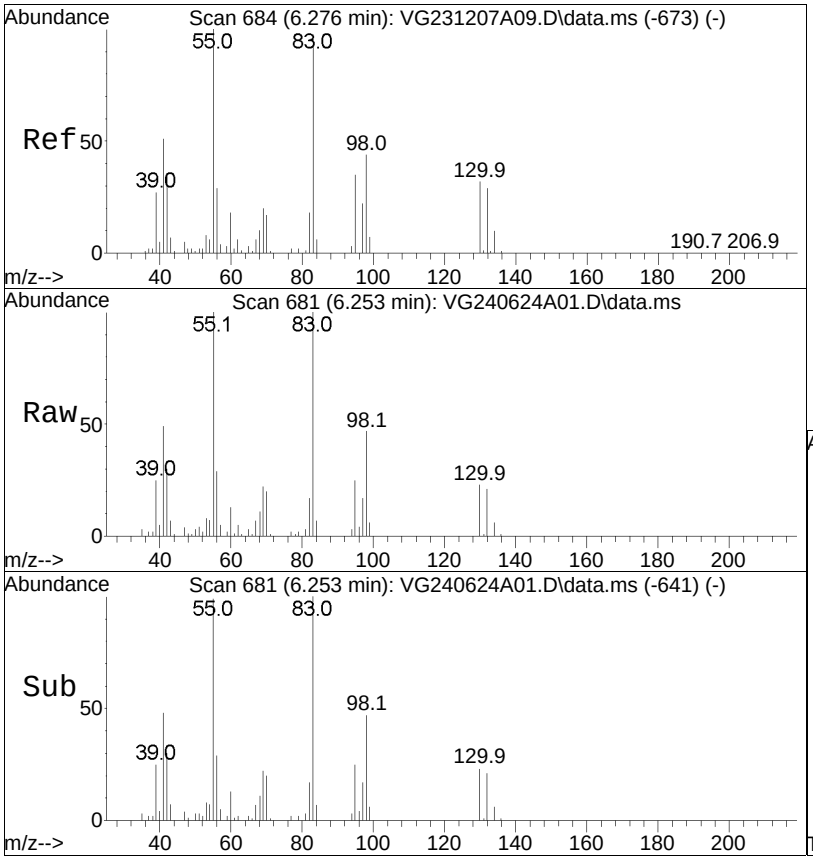


#44
1,2-Dichloroethane
Concen: 8.77 ug/L
RT: 5.881 min Scan# 632
Delta R.T. 0.000 min
Lab File: VG240624A01.D
Acq: 24 Jun 2024 8:02 am

Tgt Ion: 62 Resp: 172661

Ion	Ratio	Lower	Upper
62	100		
64	32.5	11.9	51.9
98	8.4	0.0	29.3

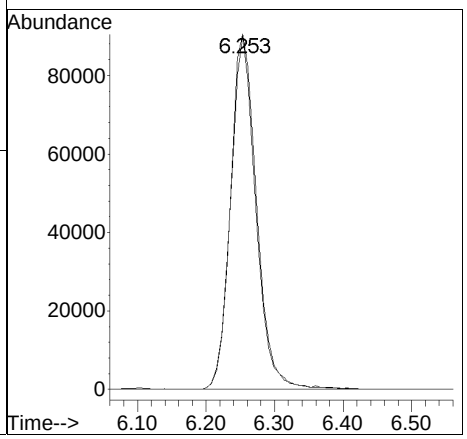


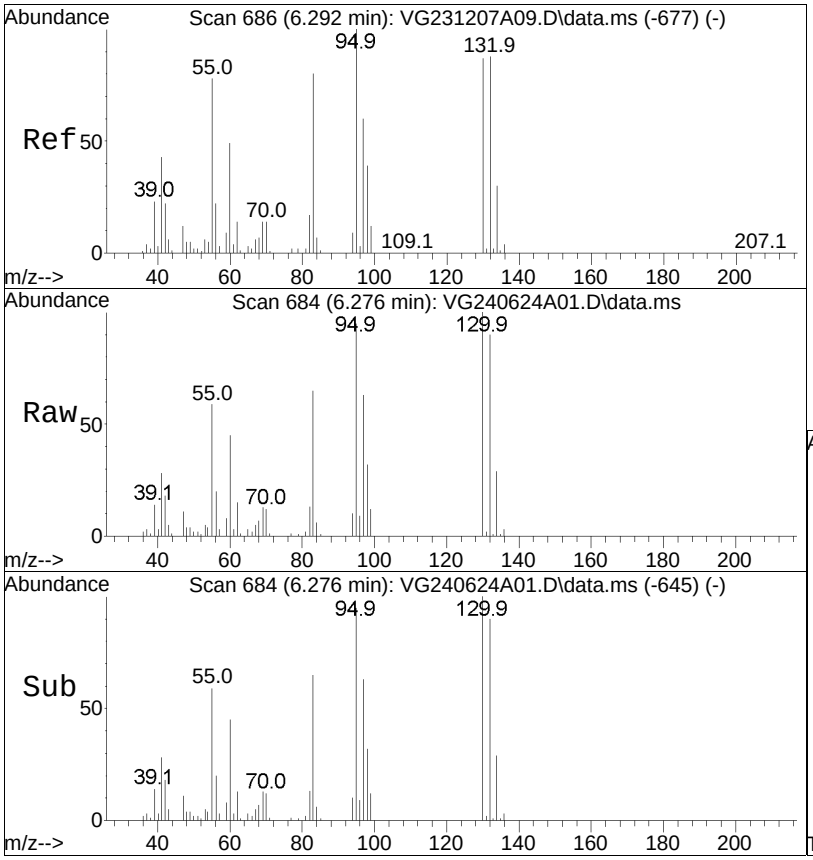


#47
Methyl cyclohexane
Concen: 11.02 ug/L
RT: 6.253 min Scan# 681
Delta R.T. 0.000 min
Lab File: VG240624A01.D
Acq: 24 Jun 2024 8:02 am

Tgt Ion: 83 Resp: 239311

Ion	Ratio	Lower	Upper
83	100		
55	95.4	56.0	84.0#

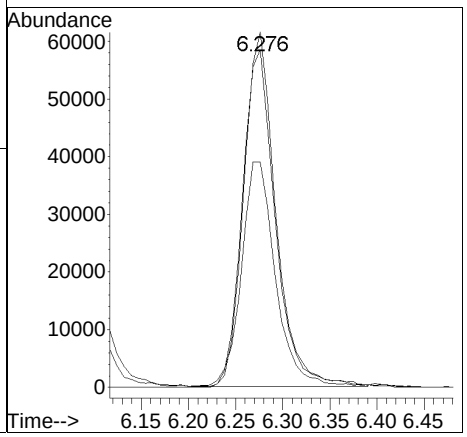


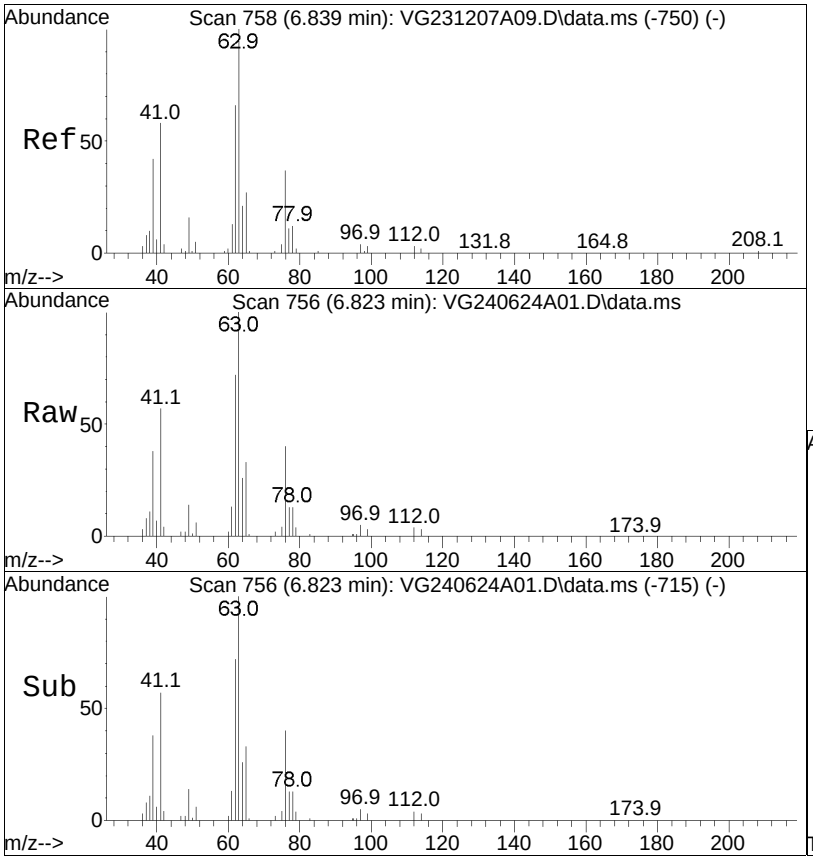


#48
Trichloroethene
Concen: 8.66 ug/L
RT: 6.276 min Scan# 684
Delta R.T. 0.000 min
Lab File: VG240624A01.D
Acq: 24 Jun 2024 8:02 am

Tgt Ion: 95 Resp: 142199

Ion	Ratio	Lower	Upper
95	100		
97	70.4	54.0	81.0
130	104.3	85.0	127.4

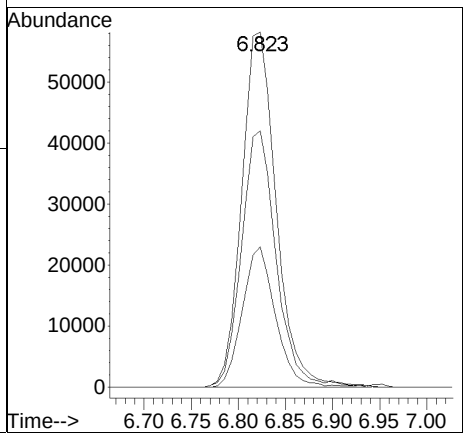


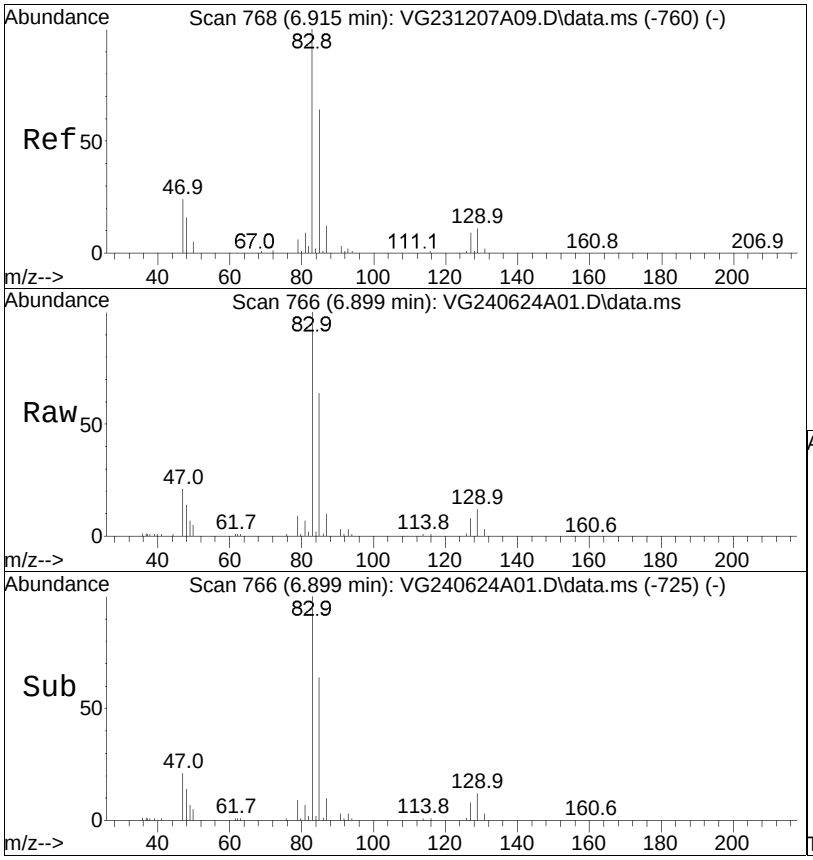


#51
1,2-Dichloropropane
Concen: 10.57 ug/L
RT: 6.823 min Scan# 756
Delta R.T. 0.008 min
Lab File: VG240624A01.D
Acq: 24 Jun 2024 8:02 am

Tgt Ion: 63 Resp: 148753

Ion	Ratio	Lower	Upper
63	100		
62	72.6	56.5	84.7
76	38.3	34.6	52.0

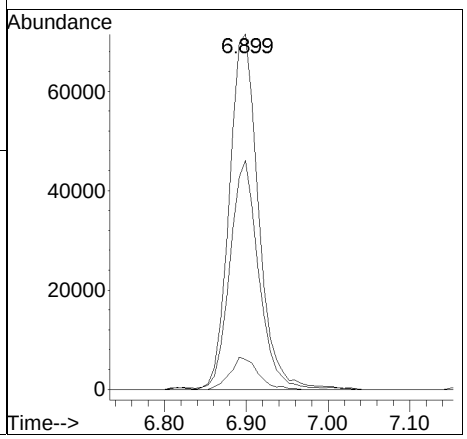


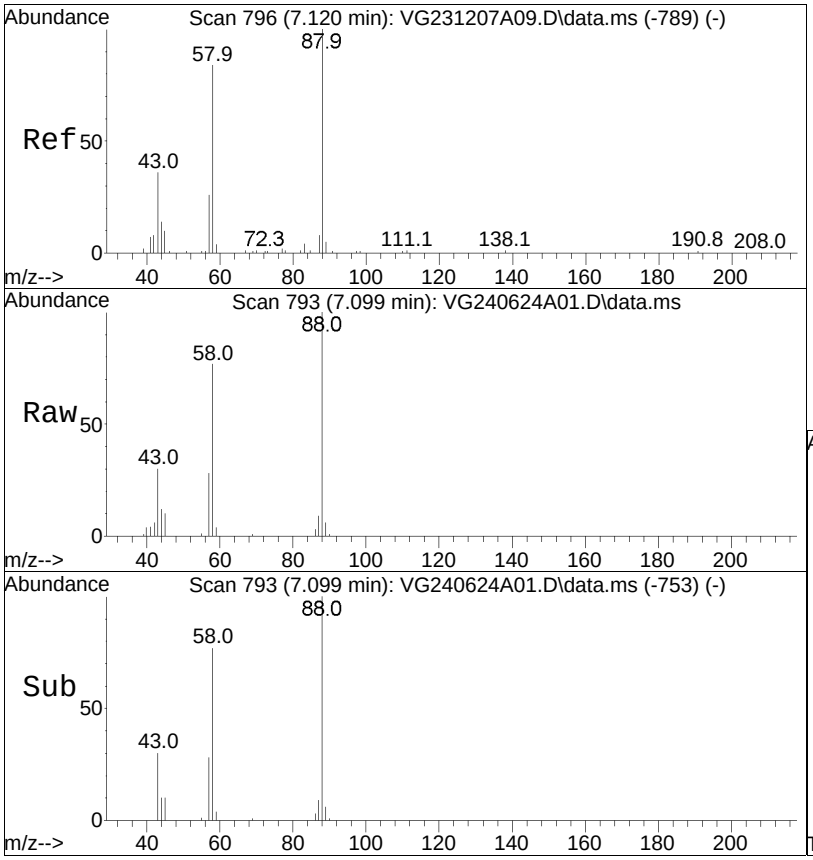


#54
Bromodichloromethane
Concen: 9.11 ug/L
RT: 6.899 min Scan# 766
Delta R.T. 0.008 min
Lab File: VG240624A01.D
Acq: 24 Jun 2024 8:02 am

Tgt Ion: 83 Resp: 175511

Ion	Ratio	Lower	Upper
83	100		
85	63.9	50.8	76.2
127	8.7	7.4	11.2

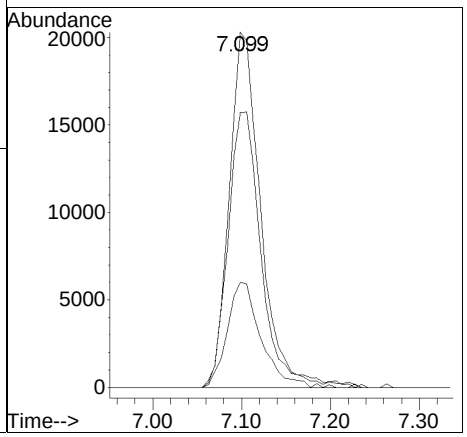


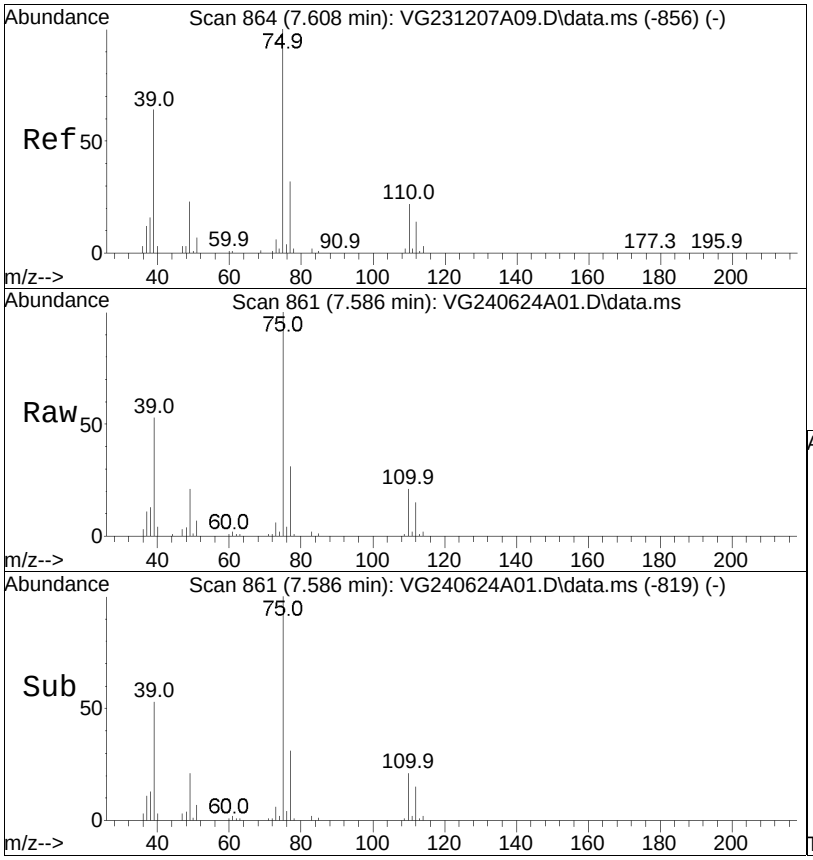


#57
1,4-Dioxane
Concen: 414.67 ug/L
RT: 7.099 min Scan# 793
Delta R.T. 0.001 min
Lab File: VG240624A01.D
Acq: 24 Jun 2024 8:02 am

Tgt Ion: 88 Resp: 50223

Ion	Ratio	Lower	Upper
88	100		
58	80.2	48.7	73.1#
43	31.7	22.4	33.6

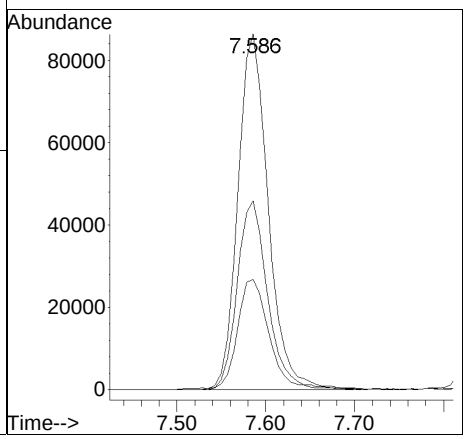


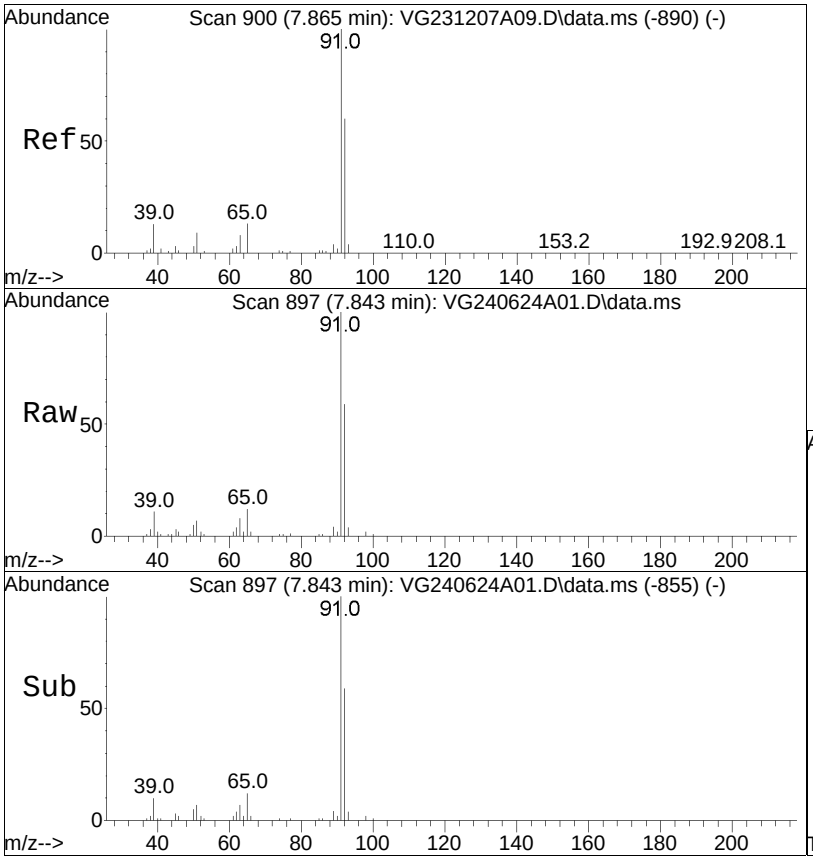


#58
cis-1,3-Dichloropropene
Concen: 9.66 ug/L
RT: 7.586 min Scan# 861
Delta R.T. -0.000 min
Lab File: VG240624A01.D
Acq: 24 Jun 2024 8:02 am

Tgt Ion: 75 Resp: 204663

Ion	Ratio	Lower	Upper
75	100		
77	32.0	24.6	36.8
39	53.5	40.8	61.2

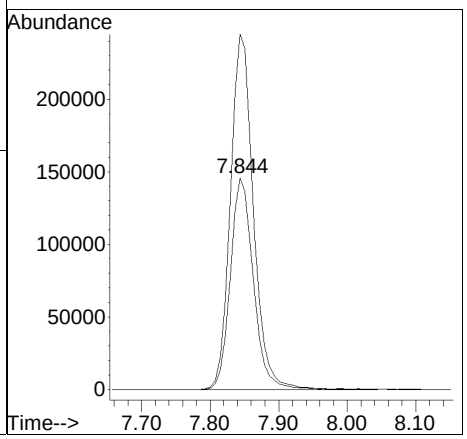


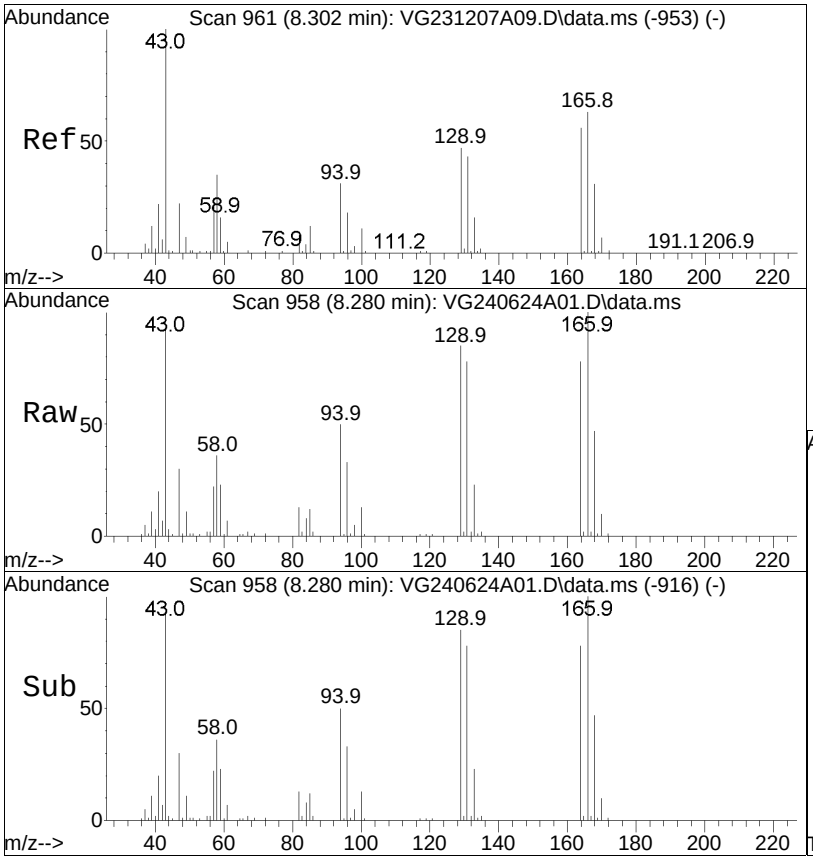


#61
Toluene
Concen: 10.30 ug/L
RT: 7.843 min Scan# 897
Delta R.T. 0.000 min
Lab File: VG240624A01.D
Acq: 24 Jun 2024 8:02 am

Tgt Ion: 92 Resp: 339259

Ion	Ratio	Lower	Upper
92	100		
91	167.4	134.8	202.2

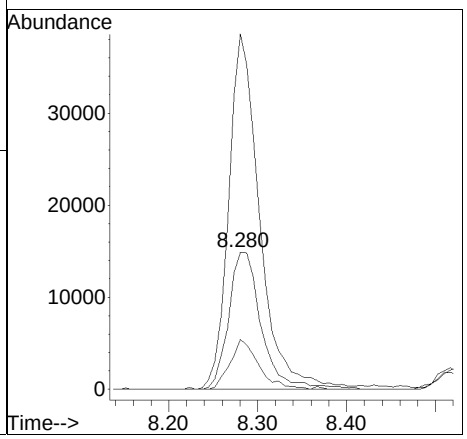


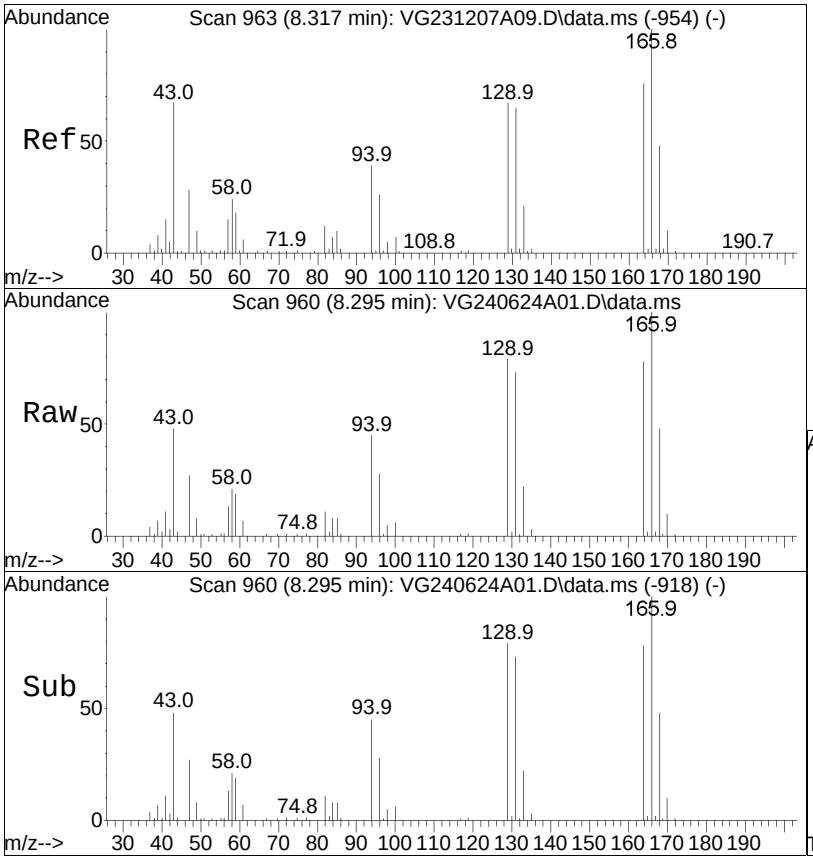


#62
4-Methyl-2-pentanone
Concen: 10.42 ug/L
RT: 8.280 min Scan# 958
Delta R.T. 0.000 min
Lab File: VG240624A01.D
Acq: 24 Jun 2024 8:02 am

Tgt Ion: 58 Resp: 38391

Ion	Ratio	Lower	Upper
58	100		
100	31.8	33.6	50.4#
43	244.1	204.3	306.5

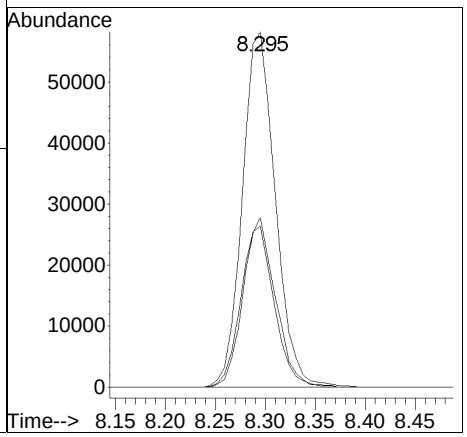


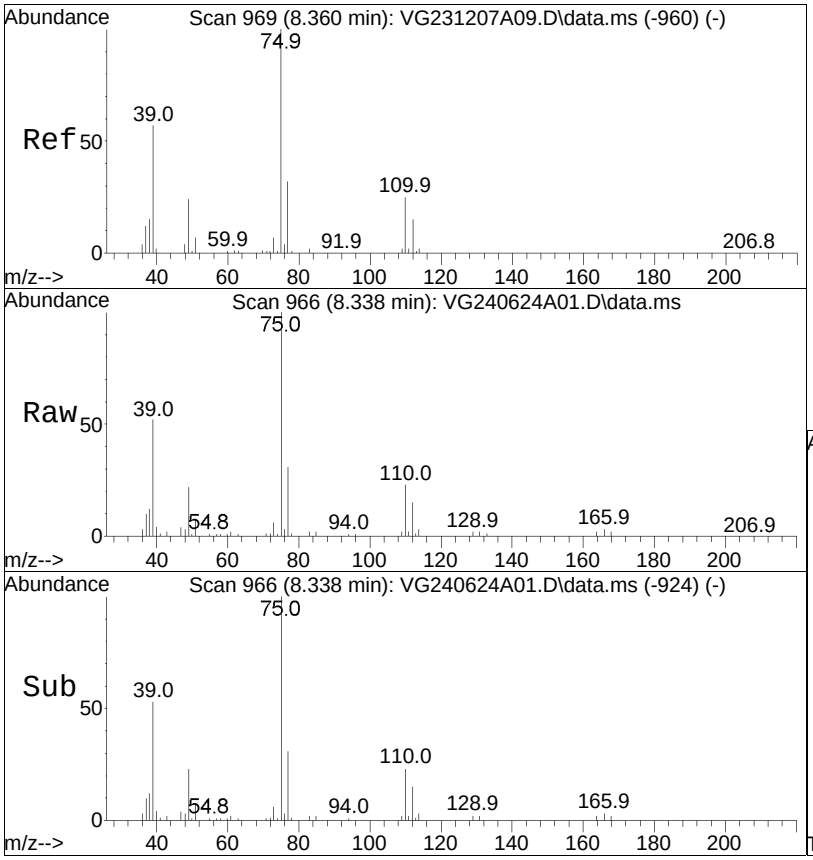


#63
Tetrachloroethene
Concen: 10.43 ug/L
RT: 8.295 min Scan# 960
Delta R.T. -0.000 min
Lab File: VG240624A01.D
Acq: 24 Jun 2024 8:02 am

Tgt Ion:166 Resp: 133837

Ion	Ratio	Lower	Upper
166	100		
168	46.7	27.3	67.3
94	45.8	20.5	60.5

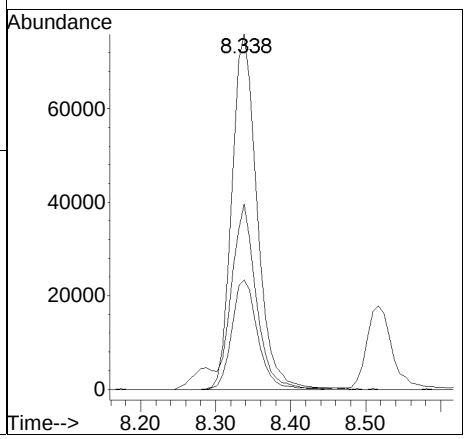


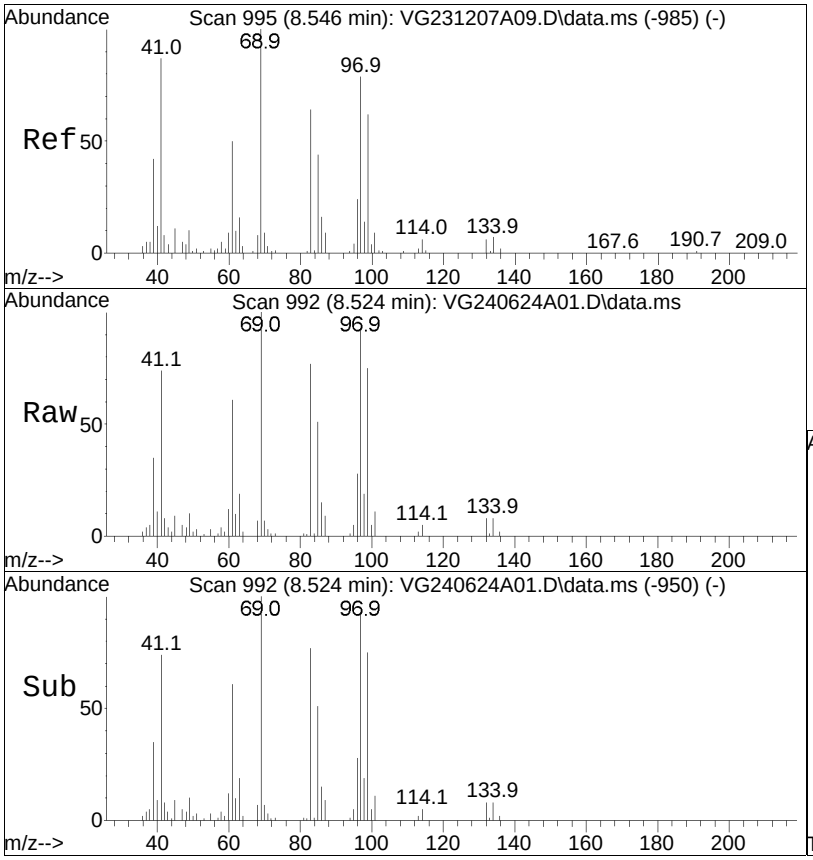


#65
trans-1,3-Dichloropropene
Concen: 9.98 ug/L
RT: 8.338 min Scan# 966
Delta R.T. -0.000 min
Lab File: VG240624A01.D
Acq: 24 Jun 2024 8:02 am

Tgt Ion: 75 Resp: 177891

Ion	Ratio	Lower	Upper
75	100		
77	31.5	11.3	51.3
39	56.2	36.0	76.0

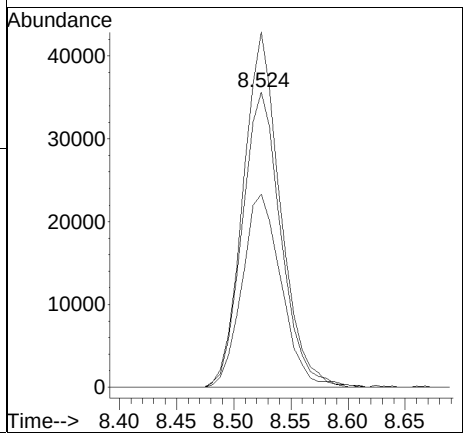


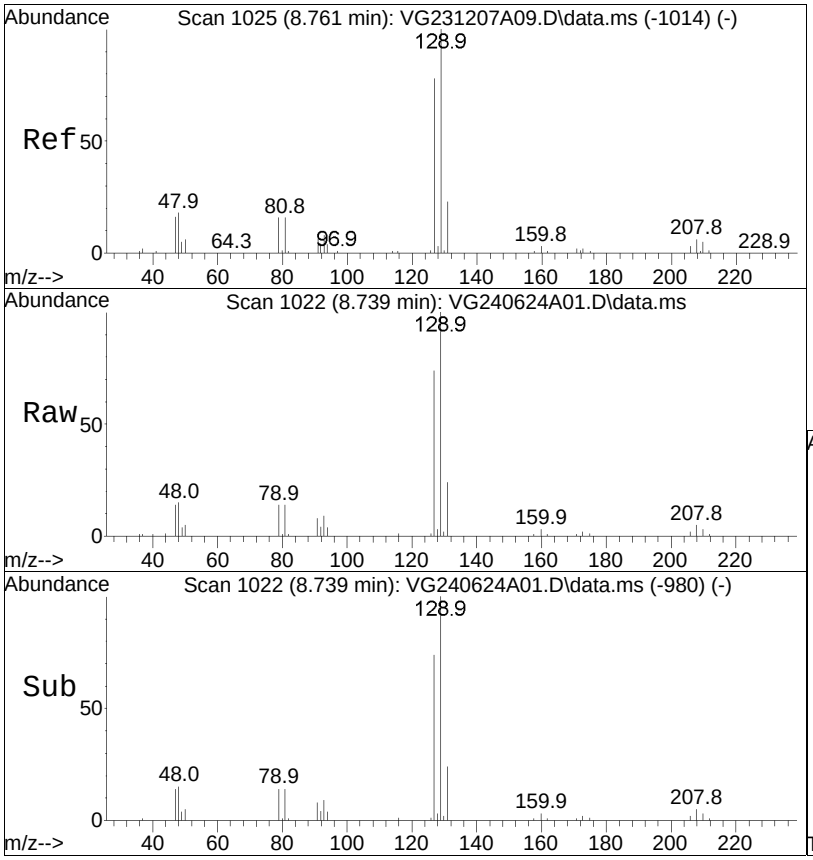


#68
1,1,2-Trichloroethane
Concen: 9.09 ug/L
RT: 8.524 min Scan# 992
Delta R.T. 0.000 min
Lab File: VG240624A01.D
Acq: 24 Jun 2024 8:02 am

Tgt Ion: 83 Resp: 83991

Ion	Ratio	Lower	Upper
83	100		
97	115.9	101.0	141.0
85	66.4	47.9	87.9

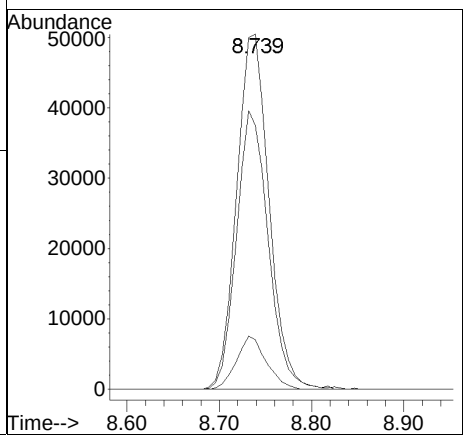


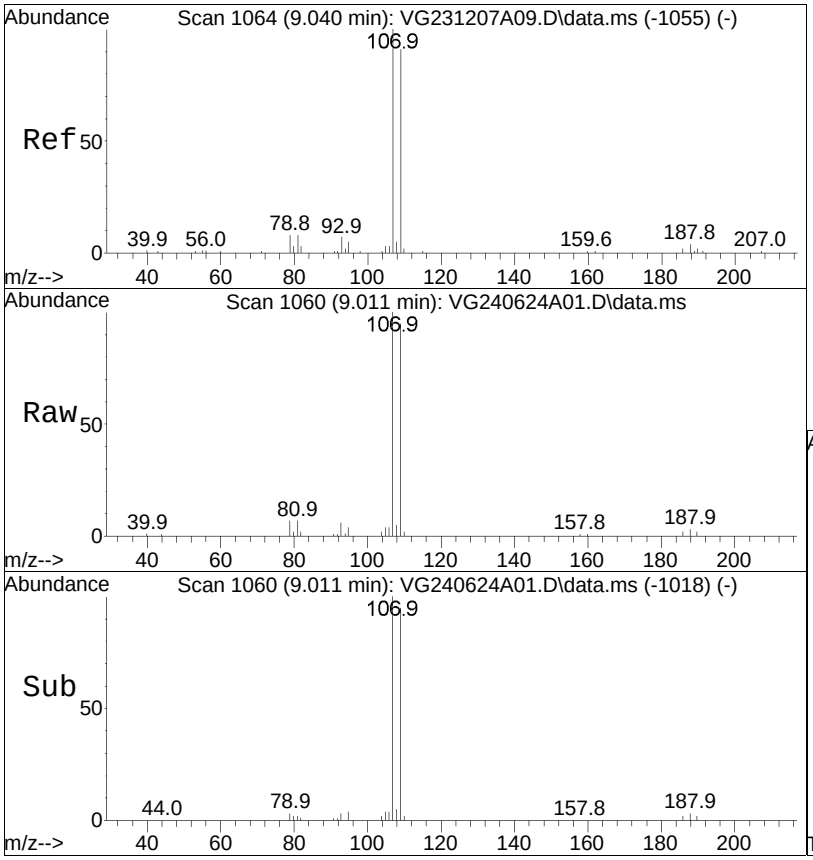


#69
Chlorodibromomethane
Concen: 9.01 ug/L
RT: 8.739 min Scan# 1022
Delta R.T. -0.000 min
Lab File: VG240624A01.D
Acq: 24 Jun 2024 8:02 am

Tgt Ion:129 Resp: 123605

Ion	Ratio	Lower	Upper
129	100		
81	13.8	0.0	35.0
127	76.7	57.1	97.1

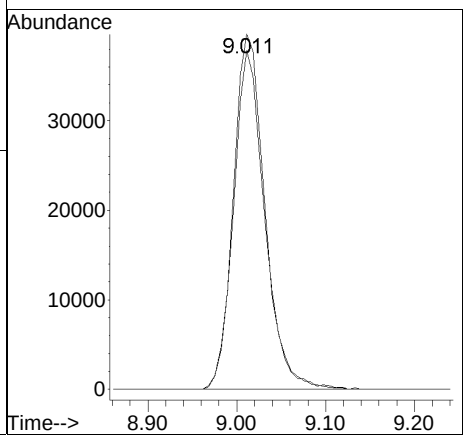


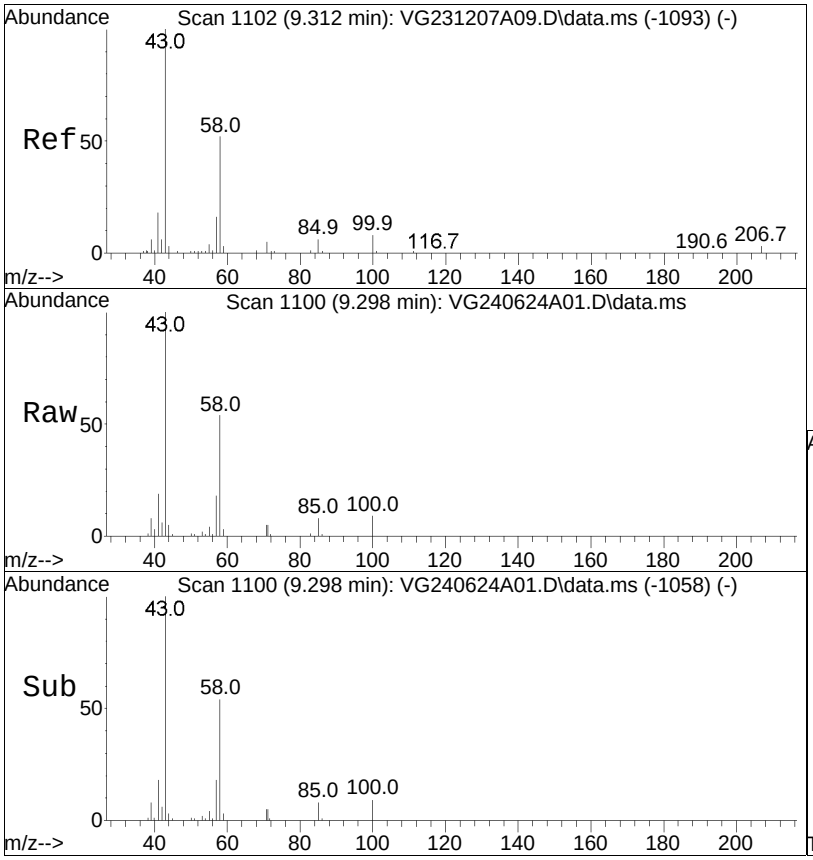


#71
1,2-Dibromoethane
Concen: 9.26 ug/L
RT: 9.011 min Scan# 1060
Delta R.T. 0.000 min
Lab File: VG240624A01.D
Acq: 24 Jun 2024 8:02 am

Tgt Ion:107 Resp: 97792

Ion	Ratio	Lower	Upper
107	100		
109	94.5	76.0	114.0

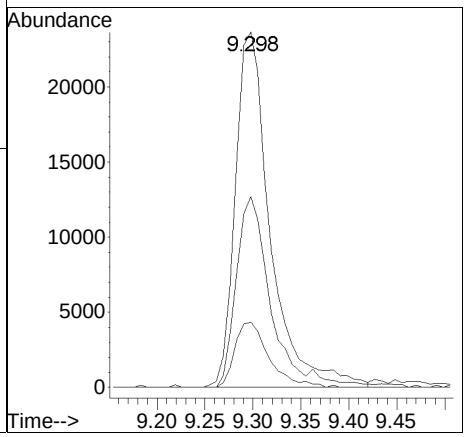


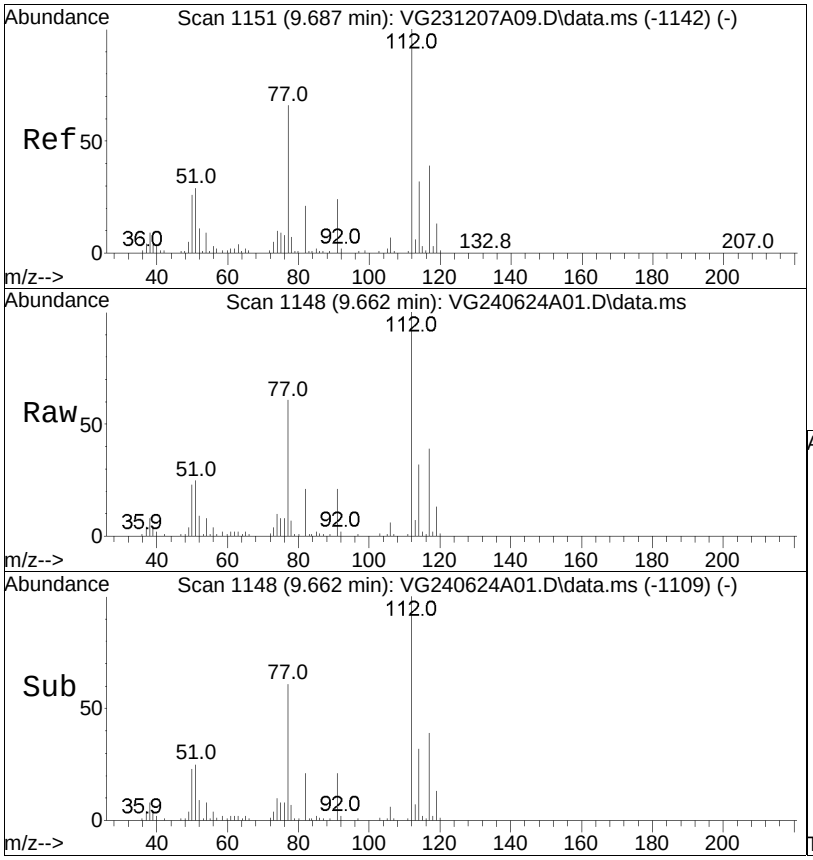


#72
2-Hexanone
Concen: 9.78 ug/L
RT: 9.298 min Scan# 1100
Delta R.T. -0.000 min
Lab File: VG240624A01.D
Acq: 24 Jun 2024 8:02 am

Tgt Ion: 43 Resp: 60116

Ion	Ratio	Lower	Upper
43	100		
58	53.2	43.8	65.6
57	18.0	15.2	22.8

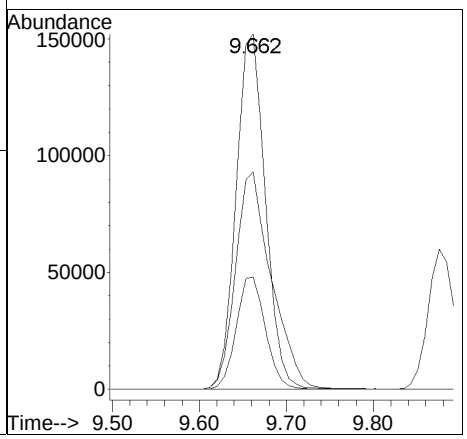


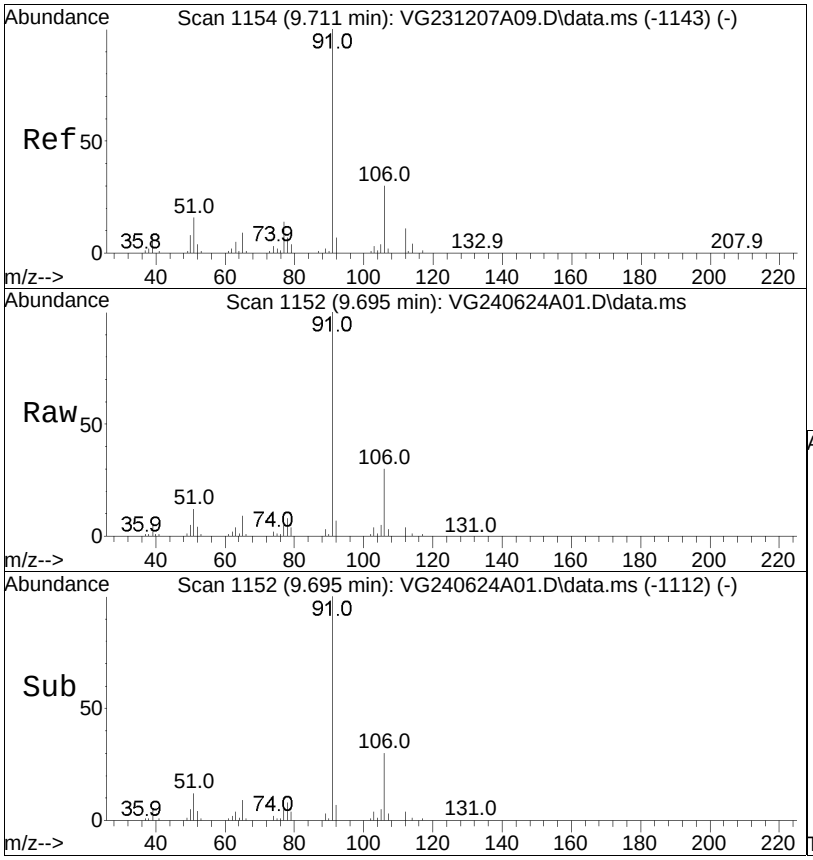


#73
Chlorobenzene
Concen: 9.58 ug/L
RT: 9.662 min Scan# 1148
Delta R.T. -0.000 min
Lab File: VG240624A01.D
Acq: 24 Jun 2024 8:02 am

Tgt Ion:112 Resp: 356201

Ion	Ratio	Lower	Upper
112	100		
77	75.1	55.9	83.9
114	31.6	25.4	38.0

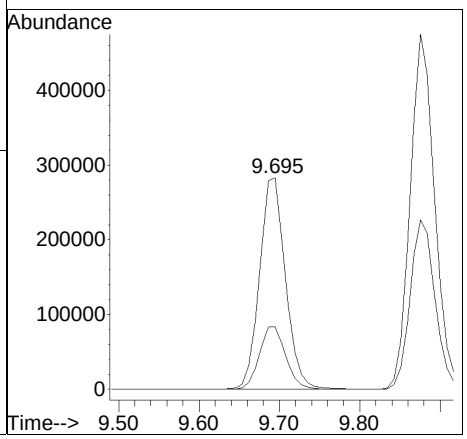


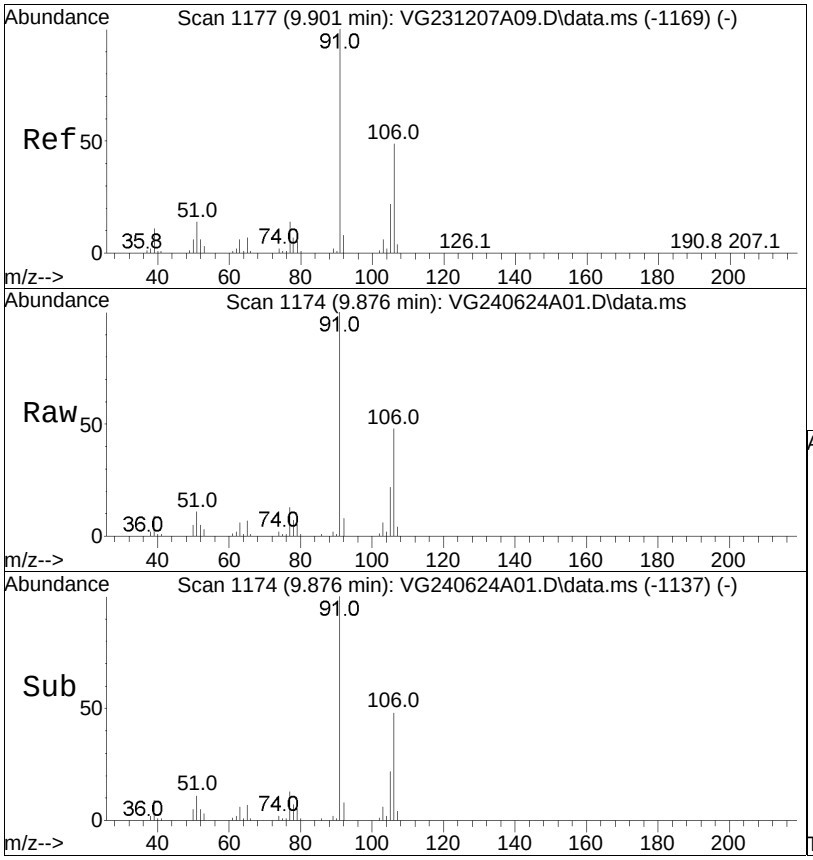


#74
Ethylbenzene
Concen: 9.92 ug/L
RT: 9.695 min Scan# 1152
Delta R.T. 0.009 min
Lab File: VG240624A01.D
Acq: 24 Jun 2024 8:02 am

Tgt Ion: 91 Resp: 636294

Ion	Ratio	Lower	Upper
91	100		
106	30.2	25.3	37.9

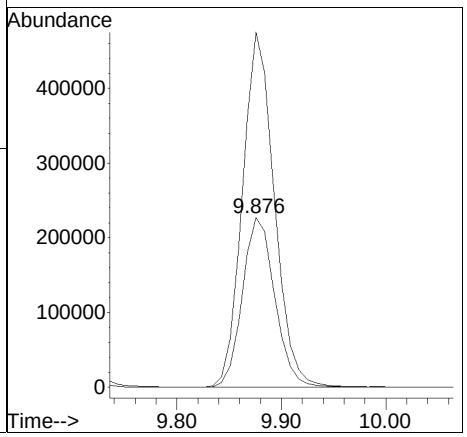


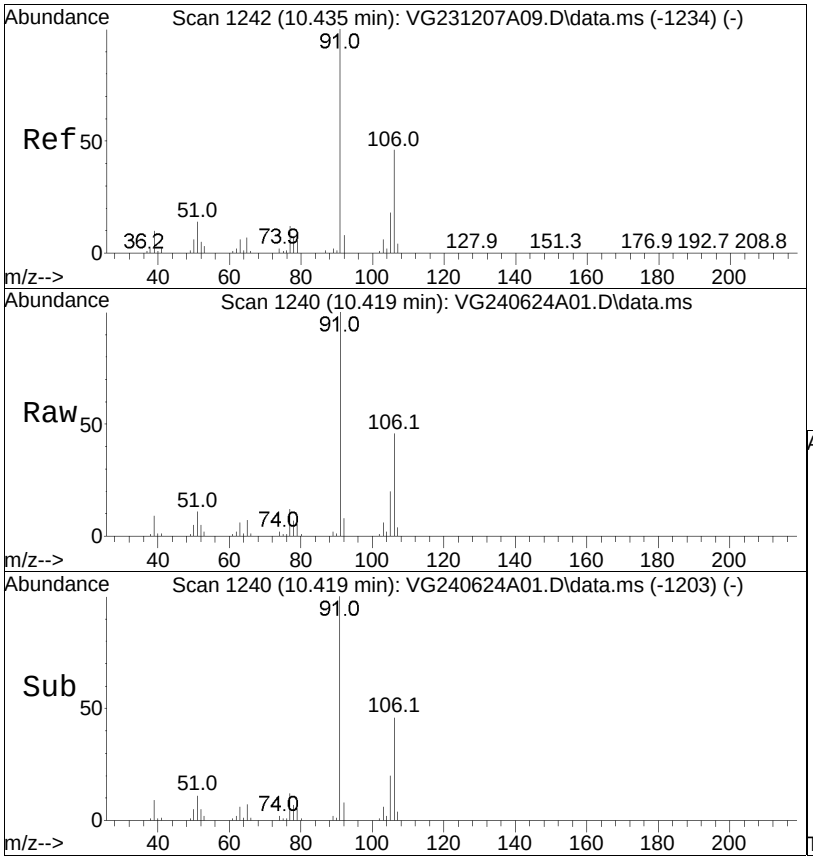


#76
p/m Xylene
Concen: 18.39 ug/L
RT: 9.876 min Scan# 1174
Delta R.T. 0.001 min
Lab File: VG240624A01.D
Acq: 24 Jun 2024 8:02 am

Tgt Ion:106 Resp: 490785

Ion	Ratio	Lower	Upper
106	100		
91	205.4	157.1	235.7

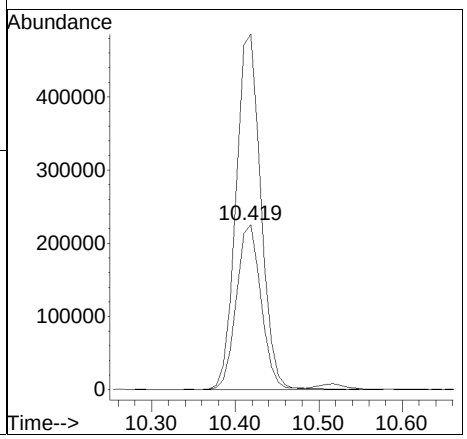


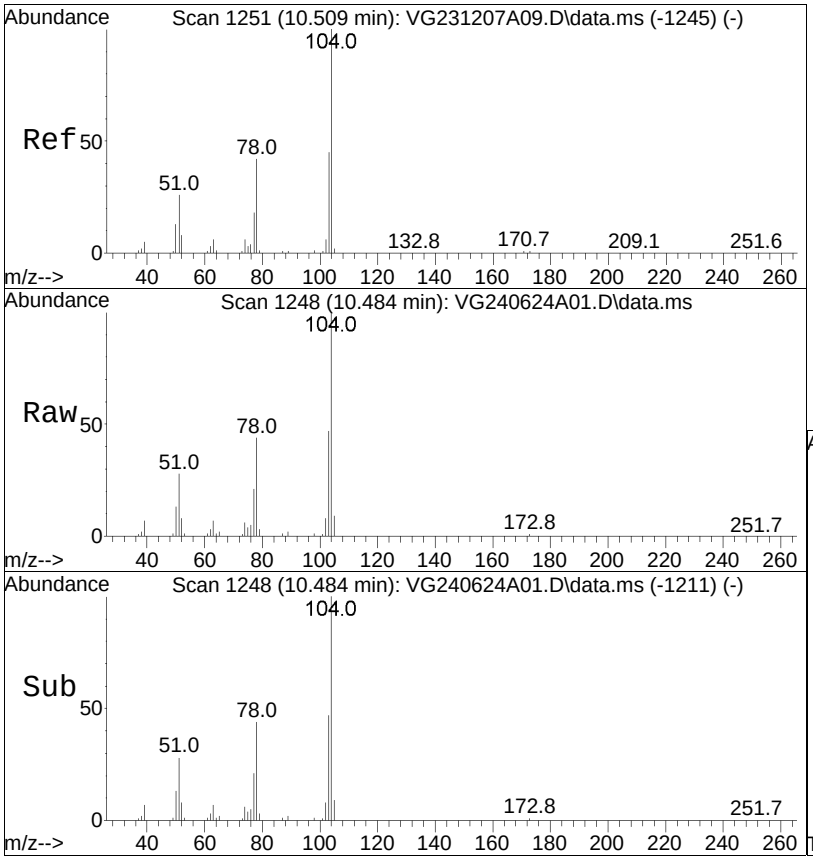


#77
o Xylene
Concen: 17.47 ug/L
RT: 10.419 min Scan# 1240
Delta R.T. 0.001 min
Lab File: VG240624A01.D
Acq: 24 Jun 2024 8:02 am

Tgt Ion:106 Resp: 464868

Ion	Ratio	Lower	Upper
106	100		
91	214.9	164.7	247.1

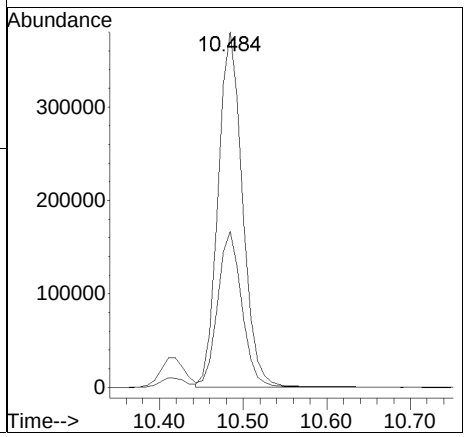


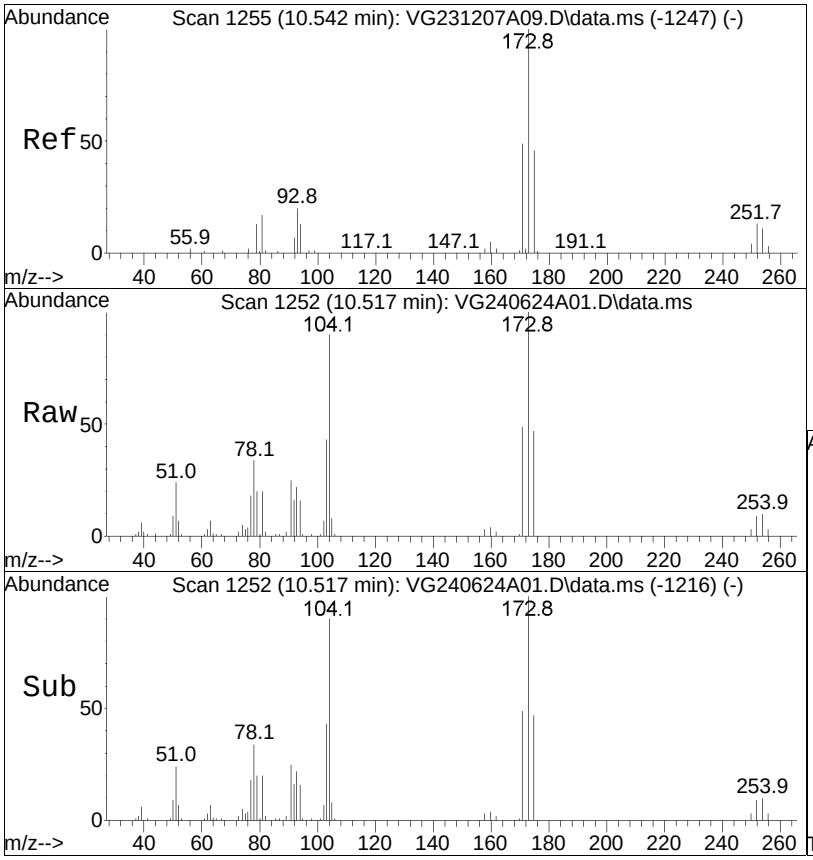


#78
Styrene
Concen: 18.25 ug/L
RT: 10.484 min Scan# 1248
Delta R.T. 0.000 min
Lab File: VG240624A01.D
Acq: 24 Jun 2024 8:02 am

Tgt Ion:104 Resp: 770299

Ion	Ratio	Lower	Upper
104	100		
78	43.5	32.2	48.4

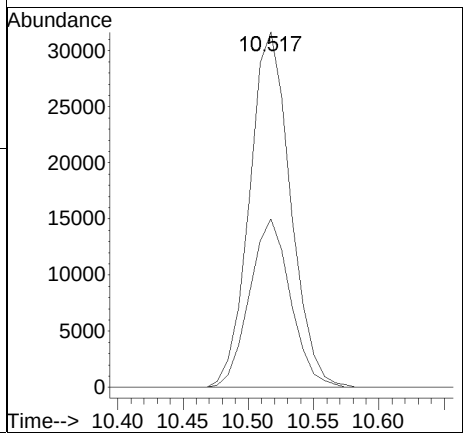


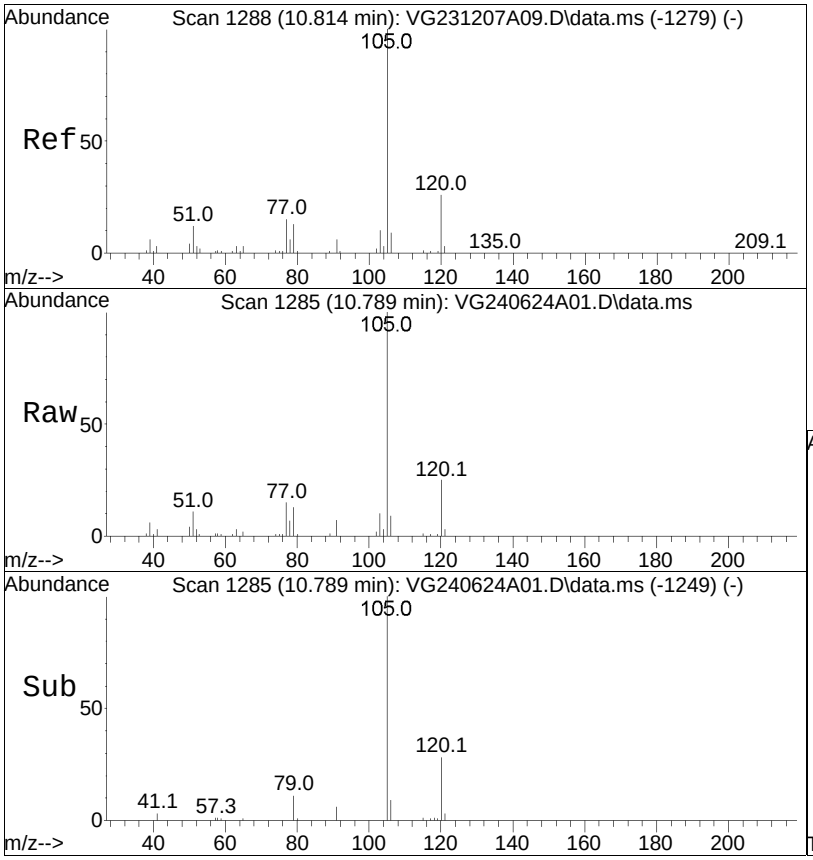


#80
Bromoform
Concen: 8.49 ug/L
RT: 10.517 min Scan# 1252
Delta R.T. 0.000 min
Lab File: VG240624A01.D
Acq: 24 Jun 2024 8:02 am

Tgt Ion:173 Resp: 69214

Ion	Ratio	Lower	Upper
173	100		
175	47.3	28.0	68.0

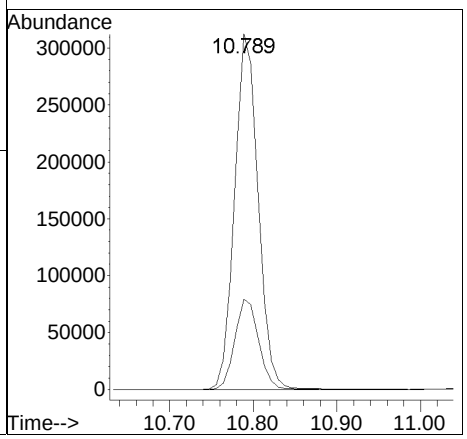


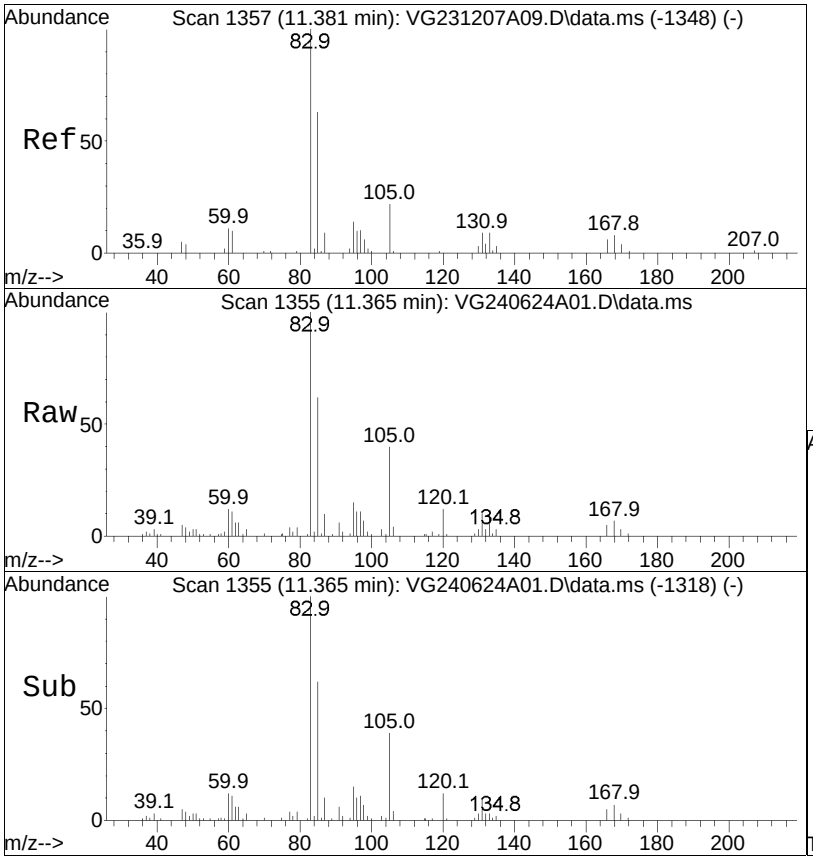


#82
Isopropylbenzene
Concen: 10.21 ug/L
RT: 10.789 min Scan# 1285
Delta R.T. -0.000 min
Lab File: VG240624A01.D
Acq: 24 Jun 2024 8:02 am

Tgt Ion:105 Resp: 611148

Ion	Ratio	Lower	Upper
105	100		
120	25.6	7.0	47.0

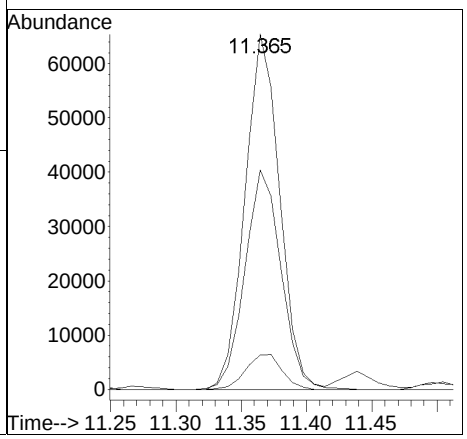


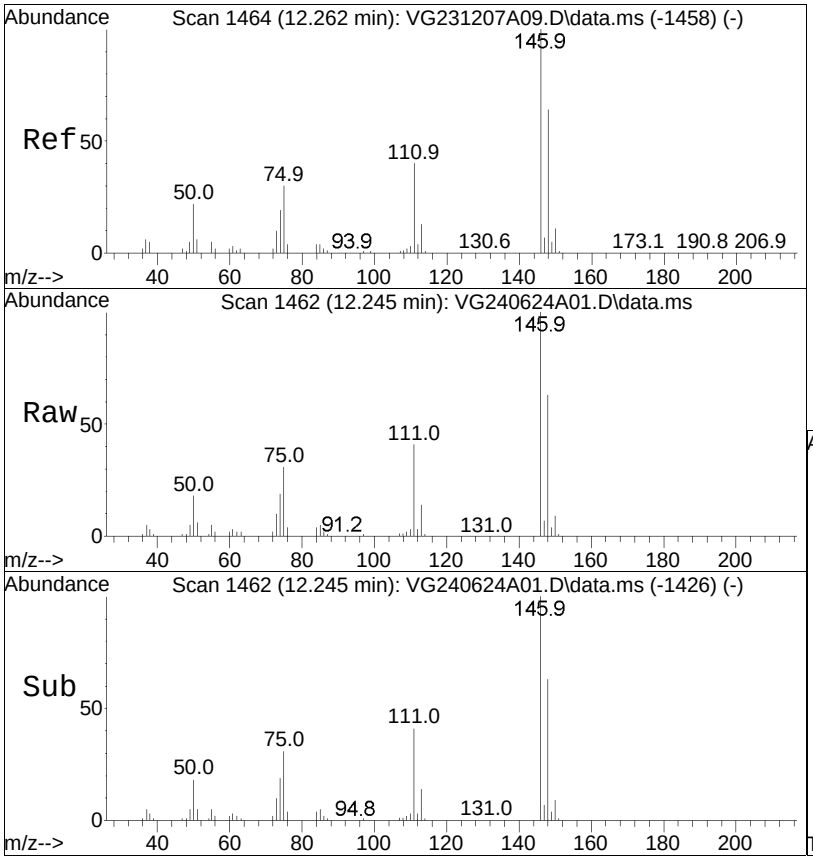


#87
1,1,2,2-Tetrachloroethane
Concen: 10.98 ug/L
RT: 11.365 min Scan# 1355
Delta R.T. 0.001 min
Lab File: VG240624A01.D
Acq: 24 Jun 2024 8:02 am

Tgt Ion: 83 Resp: 120698

Ion	Ratio	Lower	Upper
83	100		
131	10.3	0.0	31.0
85	64.4	43.9	83.9

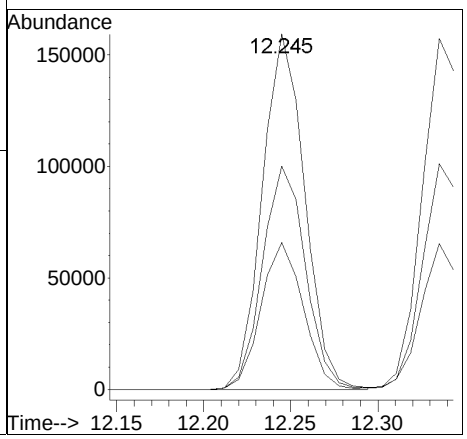


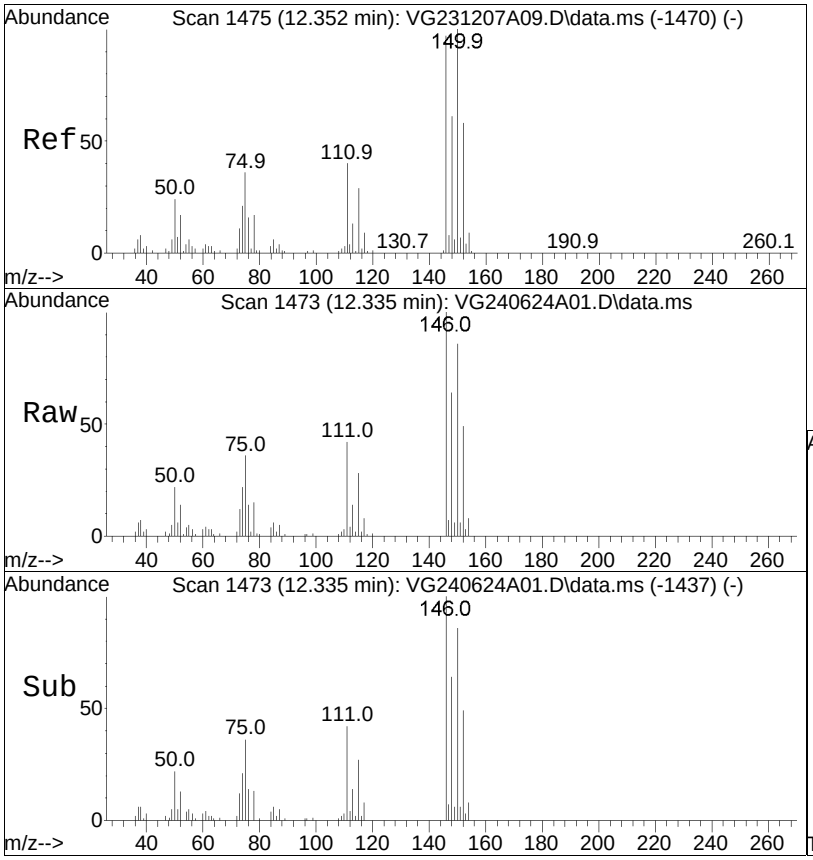


#100
1,3-Dichlorobenzene
Concen: 9.76 ug/L
RT: 12.245 min Scan# 1462
Delta R.T. -0.000 min
Lab File: VG240624A01.D
Acq: 24 Jun 2024 8:02 am

Tgt Ion:146 Resp: 270008

Ion	Ratio	Lower	Upper
146	100		
111	41.3	24.4	50.6
148	63.7	41.0	85.2

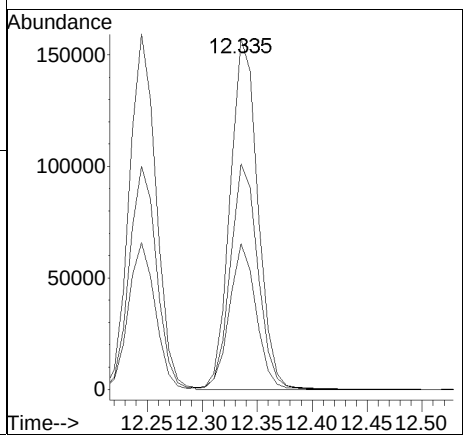


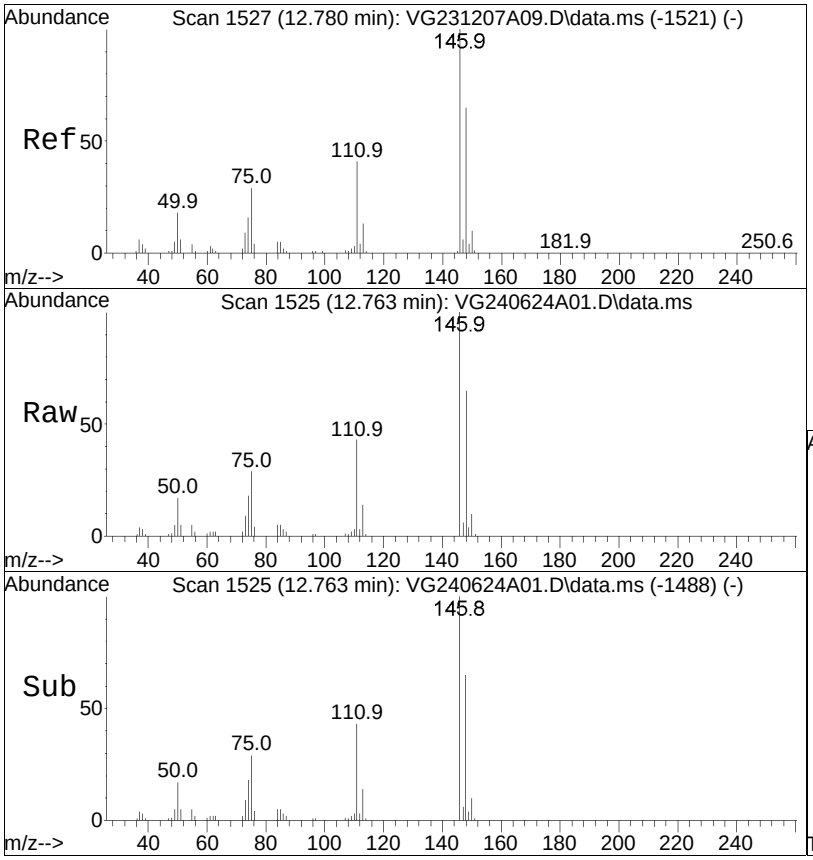


#101
1,4-Dichlorobenzene
Concen: 9.66 ug/L
RT: 12.335 min Scan# 1473
Delta R.T. 0.000 min
Lab File: VG240624A01.D
Acq: 24 Jun 2024 8:02 am

Tgt Ion:146 Resp: 276262

Ion	Ratio	Lower	Upper
146	100		
111	40.2	29.3	43.9
148	63.6	51.2	76.8

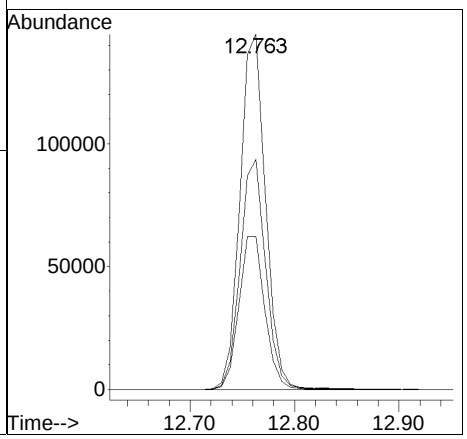


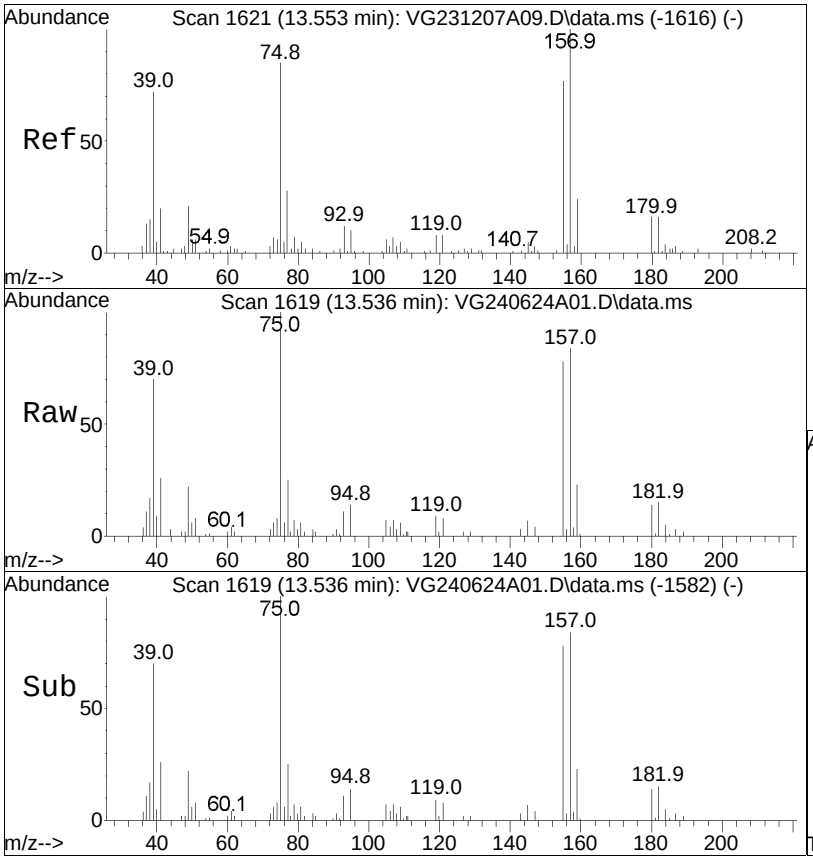


#104
1,2-Dichlorobenzene
Concen: 9.48 ug/L
RT: 12.763 min Scan# 1525
Delta R.T. 0.000 min
Lab File: VG240624A01.D
Acq: 24 Jun 2024 8:02 am

Tgt Ion:146 Resp: 246260

Ion	Ratio	Lower	Upper
146	100		
111	43.7	25.4	52.8
148	64.7	41.7	86.5

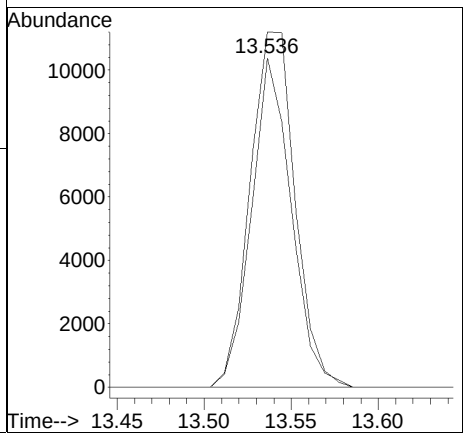


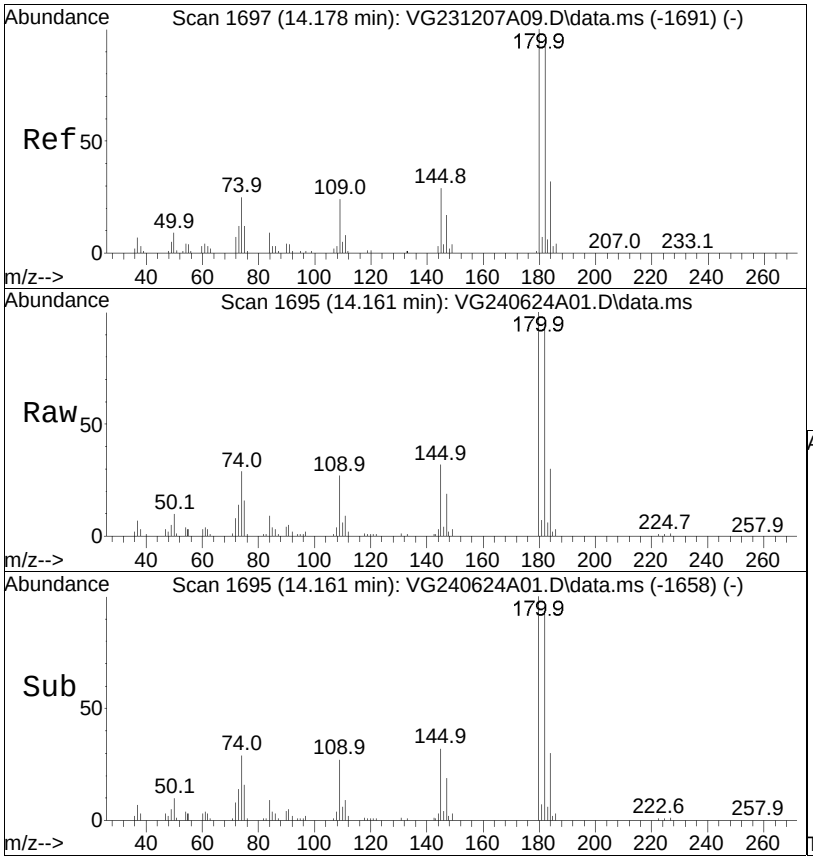


#106
1,2-Dibromo-3-chloropropane
Concen: 8.42 ug/L
RT: 13.536 min Scan# 1619
Delta R.T. 0.000 min
Lab File: VG240624A01.D
Acq: 24 Jun 2024 8:02 am

Tgt Ion:155 Resp: 16586

Ion	Ratio	Lower	Upper
155	100		
157	121.8	99.9	149.9

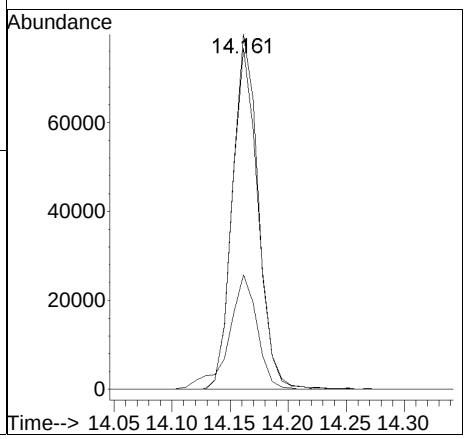


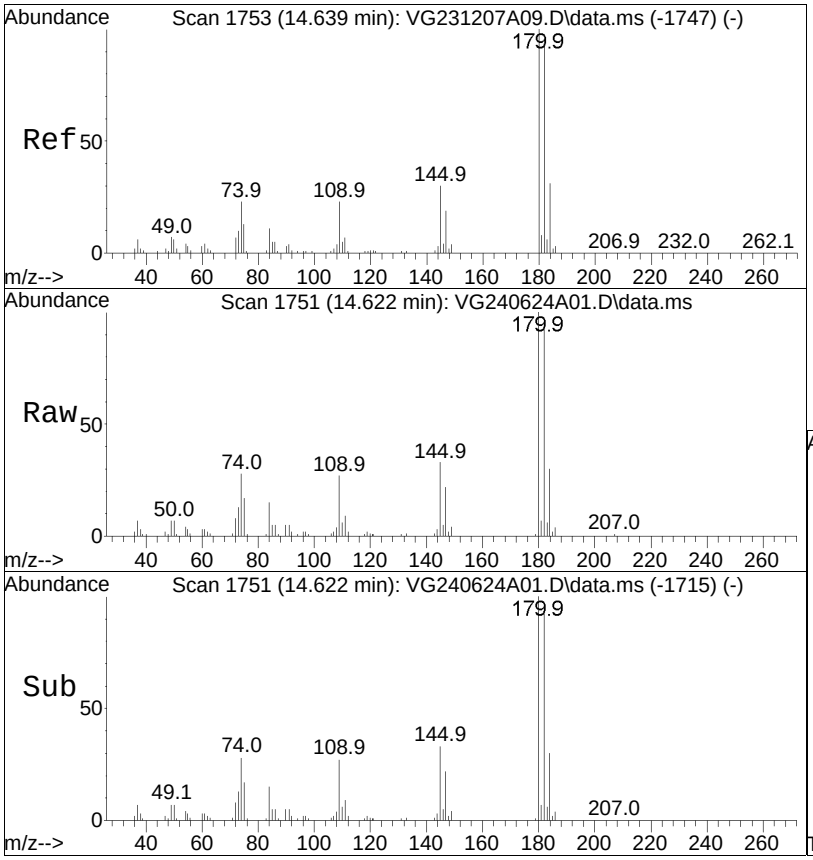


#109
1,2,4-Trichlorobenzene
Concen: 9.06 ug/L
RT: 14.161 min Scan# 1695
Delta R.T. 0.000 min
Lab File: VG240624A01.D
Acq: 24 Jun 2024 8:02 am

Tgt Ion:180 Resp: 123361

Ion	Ratio	Lower	Upper
180	100		
182	96.5	76.7	115.1
145	35.6	26.5	39.7

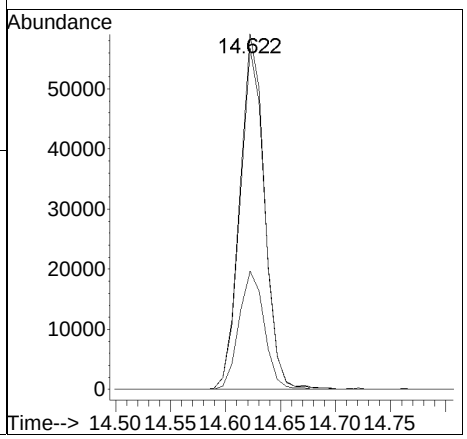




#111
1,2,3-Trichlorobenzene
Concen: 8.28 ug/L
RT: 14.622 min Scan# 1751
Delta R.T. 0.000 min
Lab File: VG240624A01.D
Acq: 24 Jun 2024 8:02 am

Tgt Ion:180 Resp: 92686

Ion	Ratio	Lower	Upper
180	100		
182	96.2	77.0	115.4
145	33.9	24.1	36.1



Quantitation Report (QT Reviewed)

Data Path : K:\VOA108\2024\240623A\
Data File : V08240623A01.d
Acq On : 23 Jun 2024 11:28 am
Operator : VOA108:PID
Sample : WG1938519-3,31,10,10
Misc : WG1938519,ICAL21127
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 23 12:05:55 2024
Quant Method : K:\VOA108\2024\240623A\V108_240514N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed May 15 09:35:21 2024
Response via : Initial Calibration

Sub List : 8260-NY_R2 - NYSOM01.2 + NYSTARS

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Fluorobenzene	6.046	96	406145	10.000	ug/L		0.00
59) Chlorobenzene-d5	9.569	117	302664	10.000	ug/L		0.00
79) 1,4-Dichlorobenzene-d4	12.264	152	142503	10.000	ug/L		0.00
System Monitoring Compounds							
36) Dibromofluoromethane	5.238	113	120152	10.789	ug/L		0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 107.89%				
43) 1,2-Dichloroethane-d4	5.763	65	127985	10.269	ug/L		0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 102.69%				
60) Toluene-d8	7.734	98	402059	10.120	ug/L		0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 101.20%				
83) 4-Bromofluorobenzene	11.058	95	138890	10.236	ug/L		0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 102.36%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.678	85	90343	9.638	ug/L		99
3) Chloromethane	1.867	50	95552	9.915	ug/L		98
4) Vinyl chloride	1.946	62	69072	6.725	ug/L		93
5) Bromomethane	2.255	94	9307	1.797	ug/L		96
6) Chloroethane	2.371	64	32329	5.616	ug/L		95
7) Trichlorofluoromethane	2.512	101	98471	7.328	ug/L		98
10) 1,1-Dichloroethene	3.000	96	62767	9.371	ug/L	#	65
11) Carbon disulfide	3.031	76	210068	9.208	ug/L		96
12) Freon-113	3.036	101	68573	9.947	ug/L		100
15) Methylene chloride	3.550	84	76960	9.629	ug/L		73
17) Acetone	3.592	43	16078	10.077	ug/L	#	87
18) trans-1,2-Dichloroethene	3.702	96	72228	9.517	ug/L		74
19) Methyl acetate	3.708	43	34545	8.041	ug/L	#	85
20) Methyl tert-butyl ether	3.802	73	171005	8.364	ug/L		94
23) 1,1-Dichloroethane	4.284	63	134068	9.004	ug/L		98
28) cis-1,2-Dichloroethene	4.803	96	80544	9.470	ug/L	#	68
30) Bromochloromethane	4.992	128	38994	9.487	ug/L	#	54
31) Cyclohexane	5.003	56	104946	7.866	ug/L	#	46
32) Chloroform	5.060	83	136076	9.467	ug/L		96
34) Carbon tetrachloride	5.202	117	127197	10.872	ug/L		99
37) 1,1,1-Trichloroethane	5.265	97	130154	10.358	ug/L	#	90
39) 2-Butanone	5.354	43	22034M3	7.955	ug/L		
41) Benzene	5.632	78	271944	8.635	ug/L		92
44) 1,2-Dichloroethane	5.831	62	94114	8.905	ug/L		95

Data Path : K:\VOA108\2024\240623A\
Data File : V08240623A01.d
Acq On : 23 Jun 2024 11:28 am
Operator : VOA108:PID
Sample : WG1938519-3,31,10,10
Misc : WG1938519,ICAL21127
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 23 12:05:55 2024
Quant Method : K:\VOA108\2024\240623A\V108_240514N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed May 15 09:35:21 2024
Response via : Initial Calibration

Sub List : 8260-NY_R2 - NYSOM01.2 + NYSTARS

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
47)	Methyl cyclohexane	6.219	83	114553	9.169	ug/L	#	67
48)	Trichloroethene	6.224	95	80412	9.672	ug/L		95
51)	1,2-Dichloropropane	6.764	63	71371	8.537	ug/L		95
54)	Bromodichloromethane	6.832	83	107331	9.340	ug/L	#	99
57)	1,4-Dioxane	7.042	88	24979	525.328	ug/L	#	72
58)	cis-1,3-Dichloropropene	7.524	75	118481	8.890	ug/L		99
61)	Toluene	7.792	92	178801	9.040	ug/L		98
62)	4-Methyl-2-pentanone	8.222	58	16156	7.440	ug/L	#	67
63)	Tetrachloroethene	8.237	166	79180	9.671	ug/L		95
65)	trans-1,3-Dichloropropene	8.269	75	106467	8.997	ug/L		94
68)	1,1,2-Trichloroethane	8.452	83	47184	8.765	ug/L		90
69)	Chlorodibromomethane	8.667	129	81380	9.659	ug/L		99
71)	1,2-Dibromoethane	8.940	107	59616	9.473	ug/L		98
72)	2-Hexanone	9.223	43	31964	7.034	ug/L	#	91
73)	Chlorobenzene	9.590	112	214209	9.749	ug/L		99
74)	Ethylbenzene	9.632	91	350495	9.341	ug/L		98
76)	p/m Xylene	9.821	106	268852	18.256	ug/L		98
77)	o Xylene	10.356	106	256376	17.764	ug/L		94
78)	Styrene	10.424	104	425277	17.530	ug/L		89
80)	Bromoform	10.445	173	46405	9.778	ug/L		94
82)	Isopropylbenzene	10.738	105	350637	9.926	ug/L		96
87)	1,1,2,2-Tetrachloroethane	11.299	83	66886	9.380	ug/L		97
100)	1,3-Dichlorobenzene	12.185	146	168721	9.838	ug/L		99
101)	1,4-Dichlorobenzene	12.280	146	170407	9.861	ug/L		98
104)	1,2-Dichlorobenzene	12.699	146	159608	9.873	ug/L		99
106)	1,2-Dibromo-3-chloropr...	13.475	155	10411	9.553	ug/L		86
109)	1,2,4-Trichlorobenzene	14.104	180	115727	9.935	ug/L		97
111)	1,2,3-Trichlorobenzene	14.566	180	101010	9.633	ug/L		99

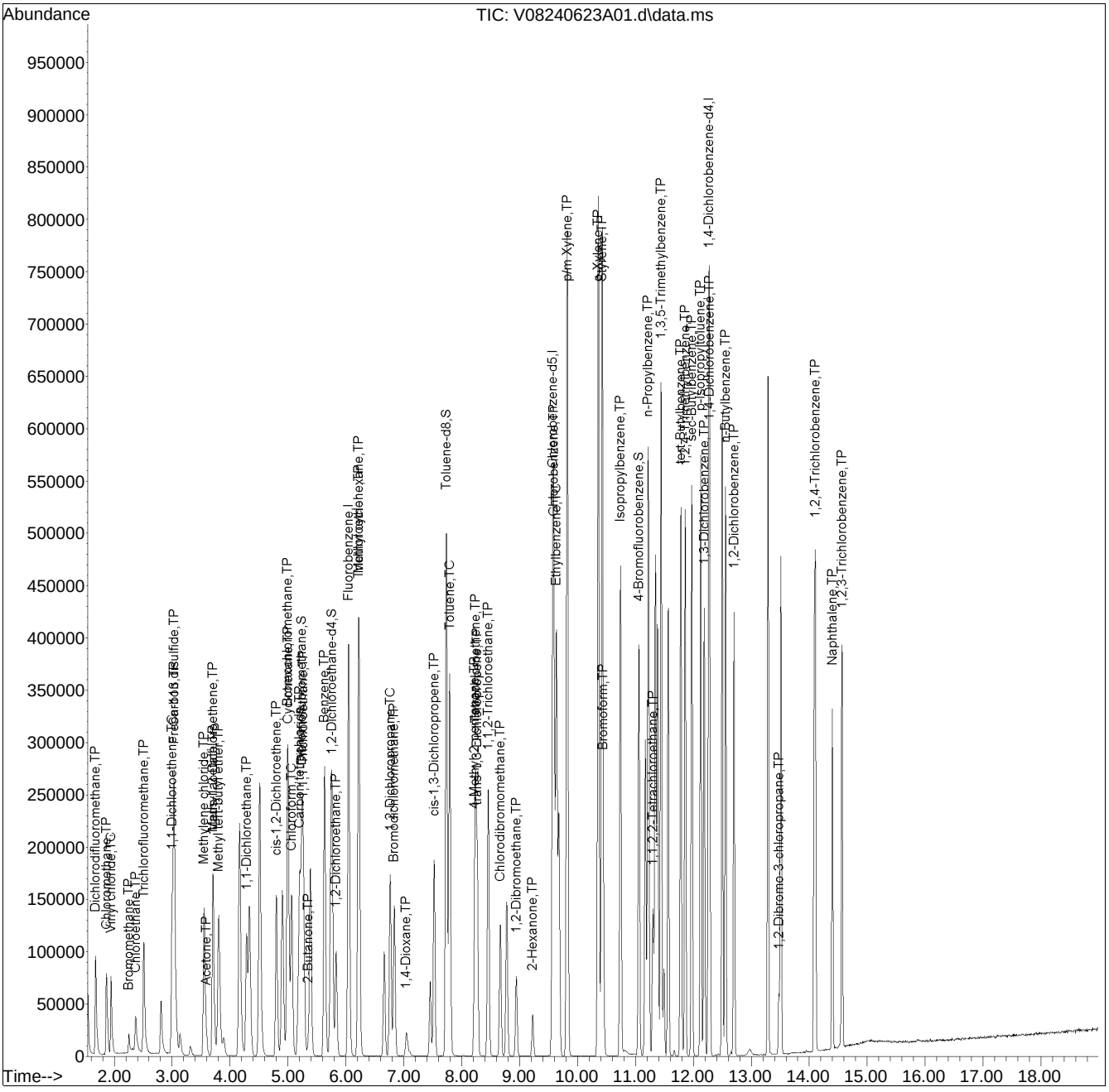
(#) = qualifier out of range (m) = manual integration (+) = signals summed

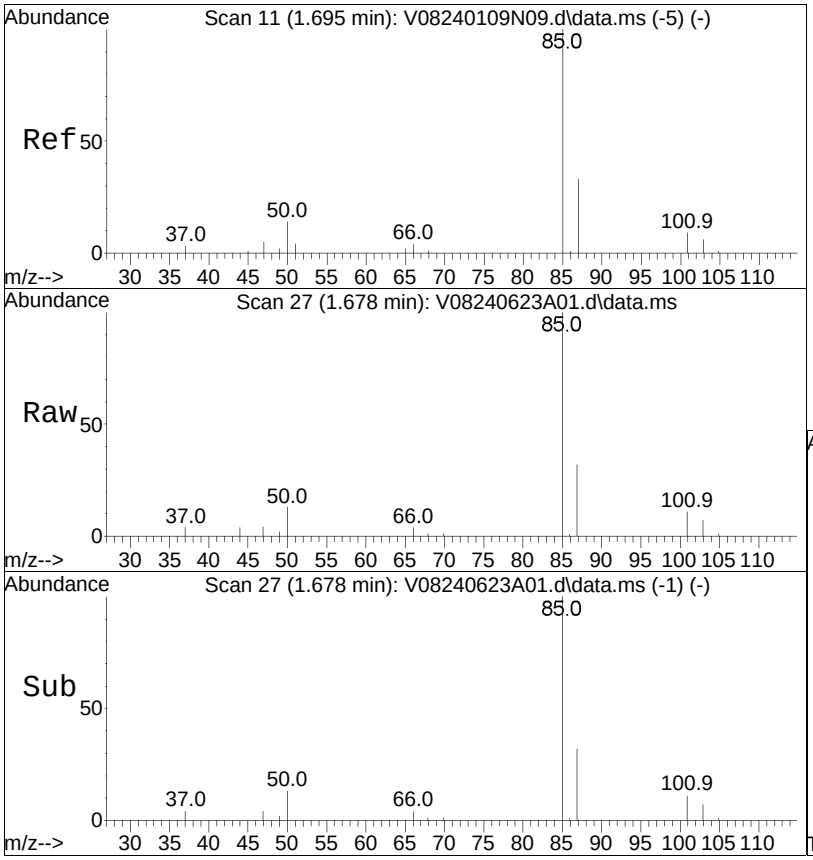
Quantitation Report (QT Reviewed)

Data Path : K:\VOA108\2024\240623A\
Data File : V08240623A01.d
Acq On : 23 Jun 2024 11:28 am
Operator : VOA108:PID
Sample : WG1938519-3,31,10,10
Misc : WG1938519,ICAL21127
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 23 12:05:55 2024
Quant Method : K:\VOA108\2024\240623A\V108_240514N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed May 15 09:35:21 2024
Response via : Initial Calibration

Sub List : 8260-NY_R2 - NYSOM01.2 + NYSTARS

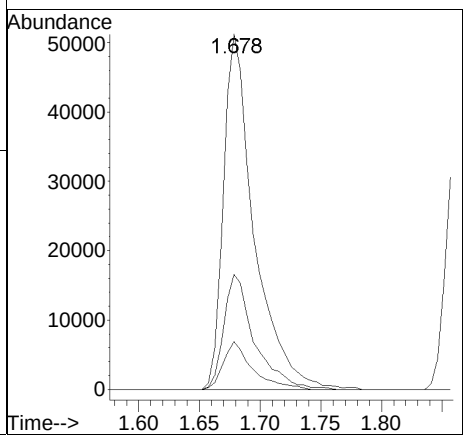


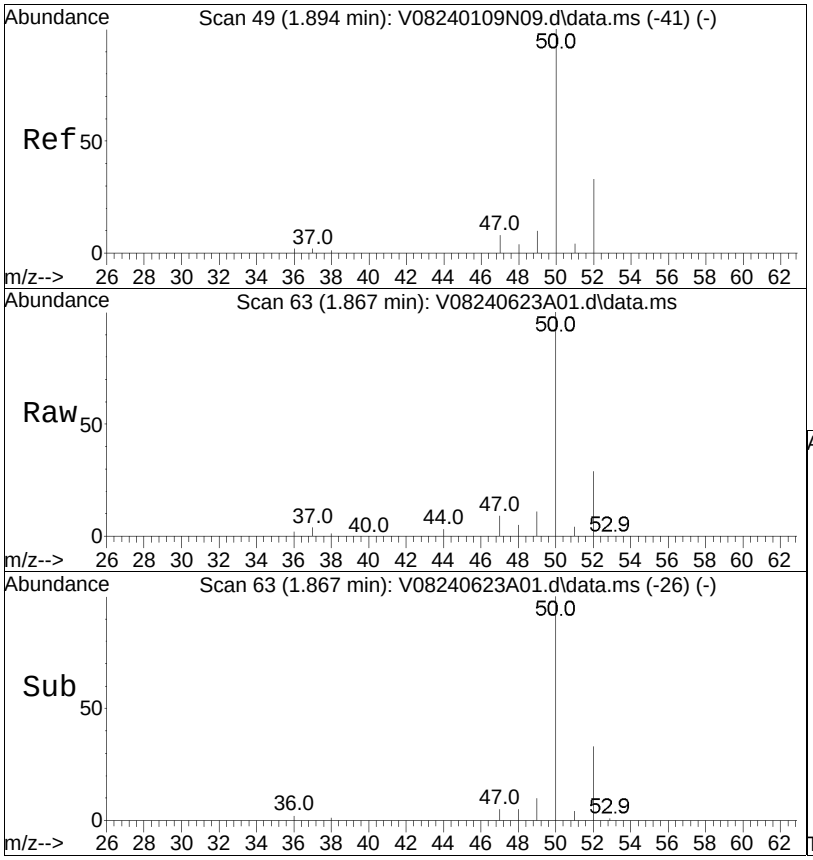


#2
Dichlorodifluoromethane
Concen: 9.64 ug/L
RT: 1.678 min Scan# 27
Delta R.T. 0.000 min
Lab File: V08240623A01.d
Acq: 23 Jun 2024 11:28 am

Tgt Ion: 85 Resp: 90343

Ion	Ratio	Lower	Upper
85	100		
87	32.1	21.0	43.6
50	12.8	8.9	18.5

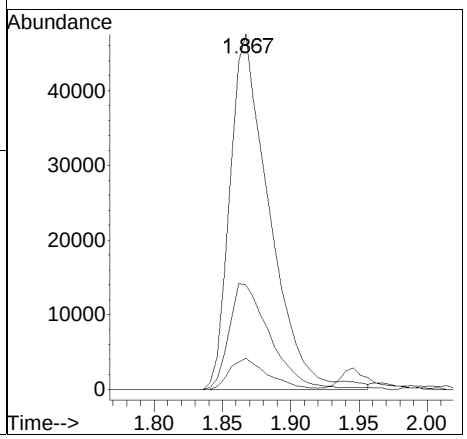


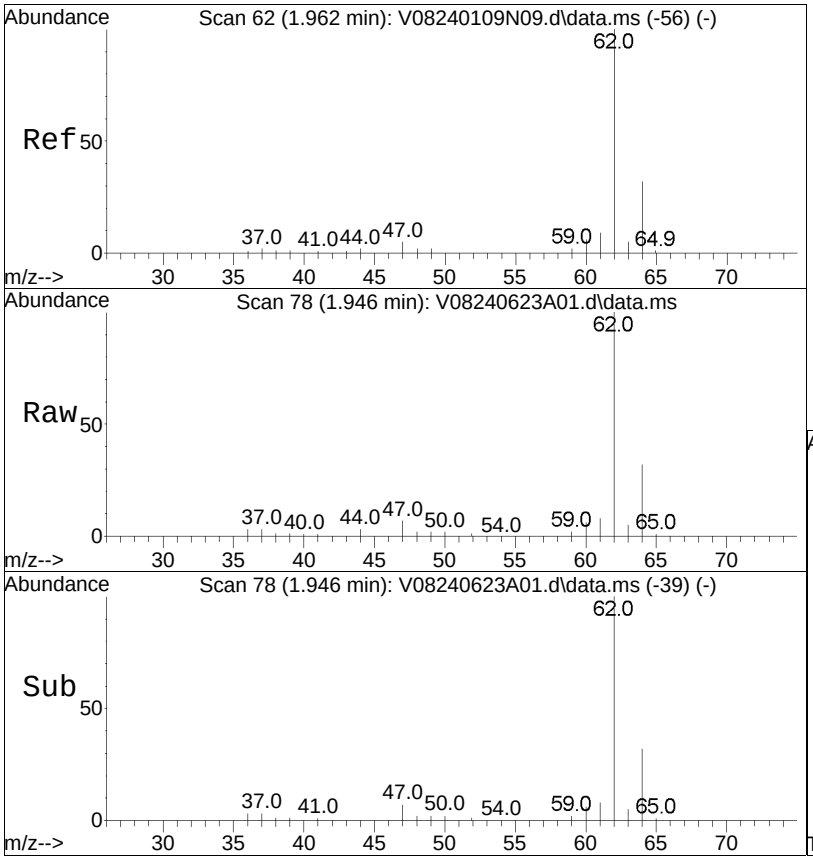


#3
Chloromethane
Concen: 9.92 ug/L
RT: 1.867 min Scan# 63
Delta R.T. -0.005 min
Lab File: V08240623A01.d
Acq: 23 Jun 2024 11:28 am

Tgt Ion: 50 Resp: 95552

Ion	Ratio	Lower	Upper
50	100		
52	31.2	12.9	52.9
47	8.5	0.0	28.3

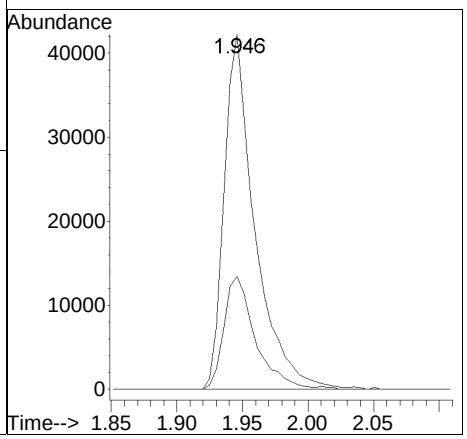


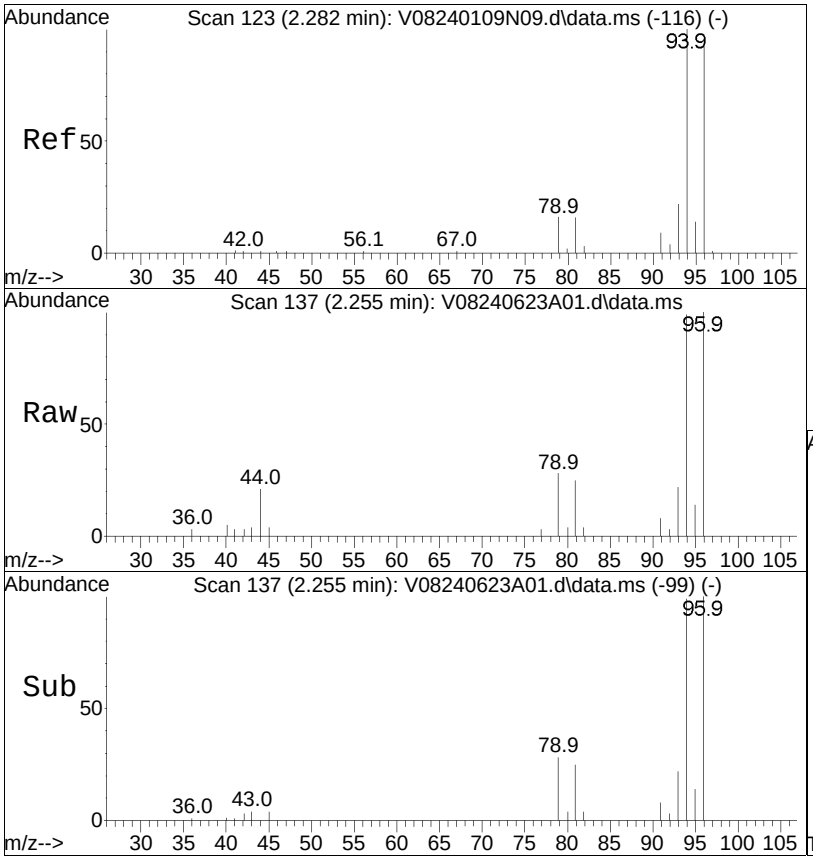


#4
Vinyl chloride
Concen: 6.72 ug/L
RT: 1.946 min Scan# 78
Delta R.T. 0.005 min
Lab File: V08240623A01.d
Acq: 23 Jun 2024 11:28 am

Tgt Ion: 62 Resp: 69072

Ion	Ratio	Lower	Upper
62	100		
64	32.7	9.1	49.1

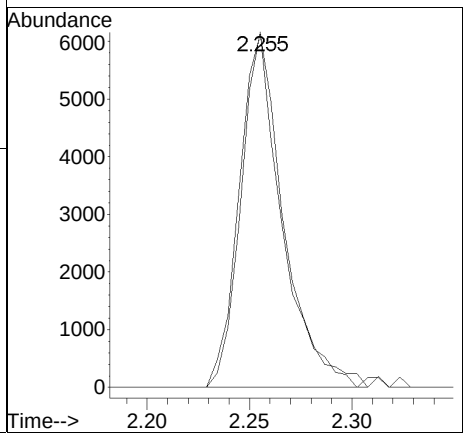


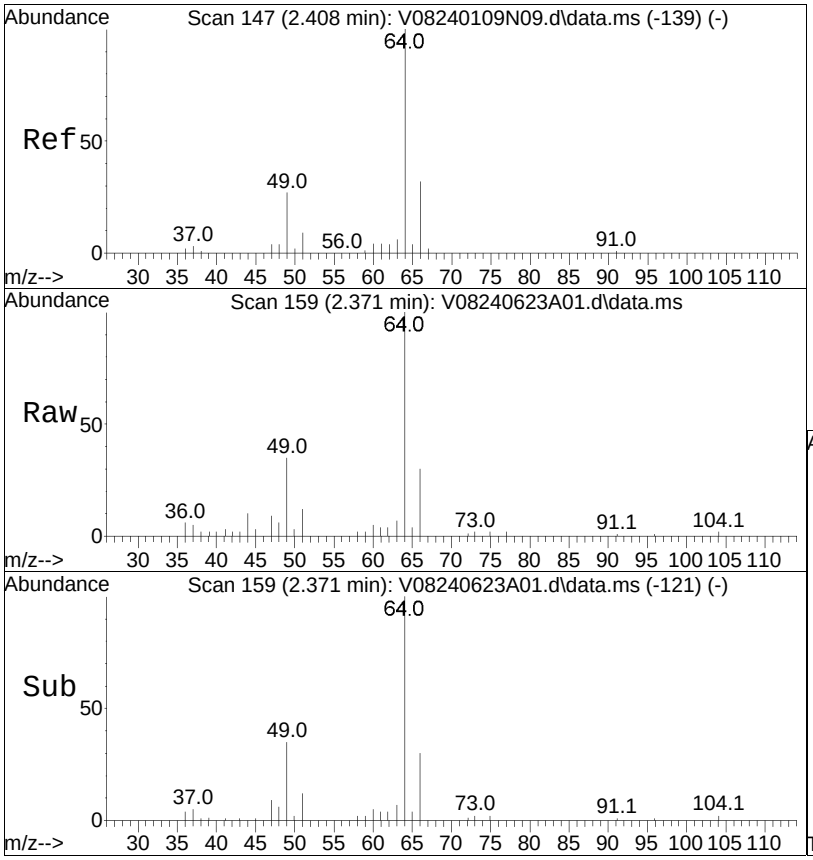


#5
Bromomethane
Concen: 1.80 ug/L
RT: 2.255 min Scan# 137
Delta R.T. 0.000 min
Lab File: V08240623A01.d
Acq: 23 Jun 2024 11:28 am

Tgt Ion: 94 Resp: 9307

Ion	Ratio	Lower	Upper
94	100		
96	91.5	75.6	115.6

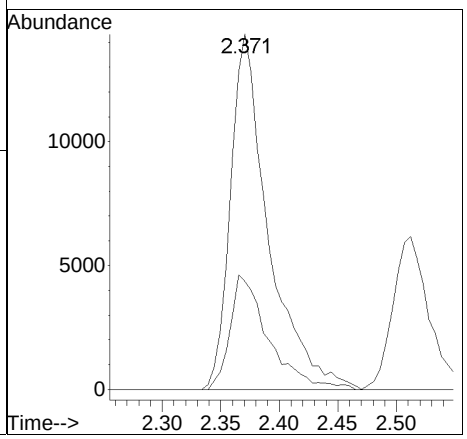


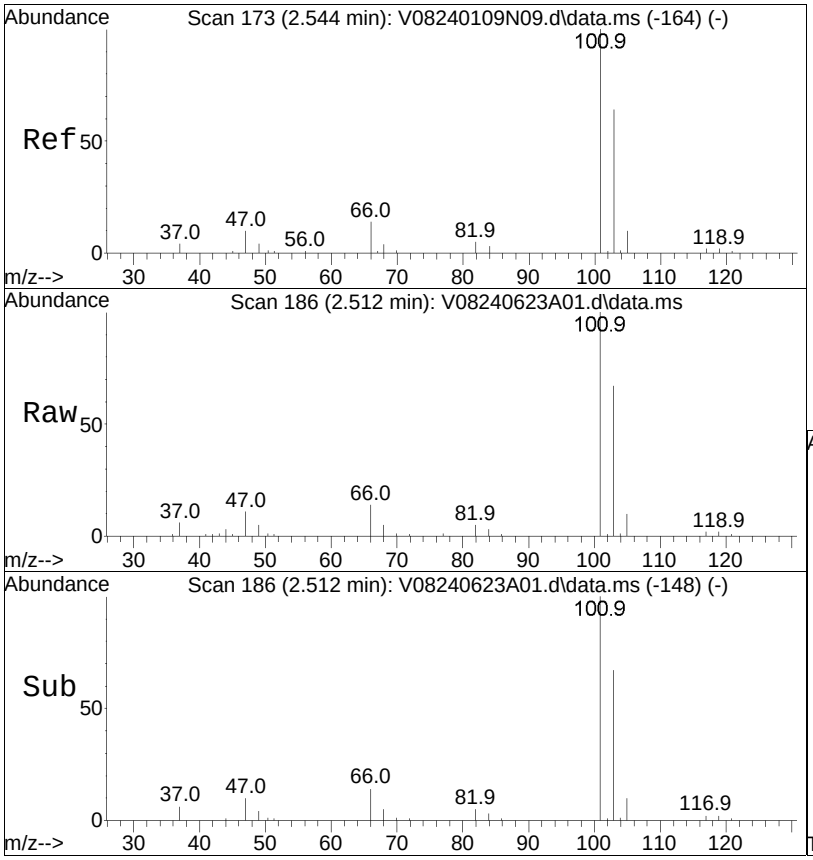


#6
Chloroethane
Concen: 5.62 ug/L
RT: 2.371 min Scan# 159
Delta R.T. 0.001 min
Lab File: V08240623A01.d
Acq: 23 Jun 2024 11:28 am

Tgt Ion: 64 Resp: 32329

Ion	Ratio	Lower	Upper
64	100		
66	32.6	9.8	49.8

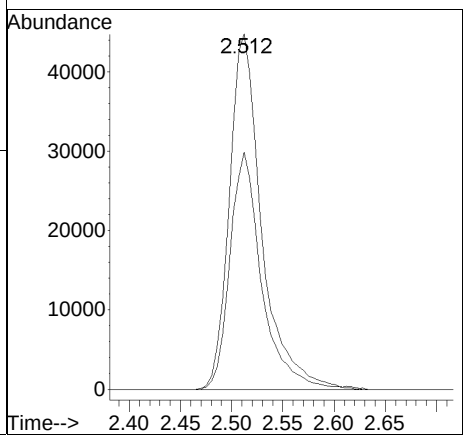


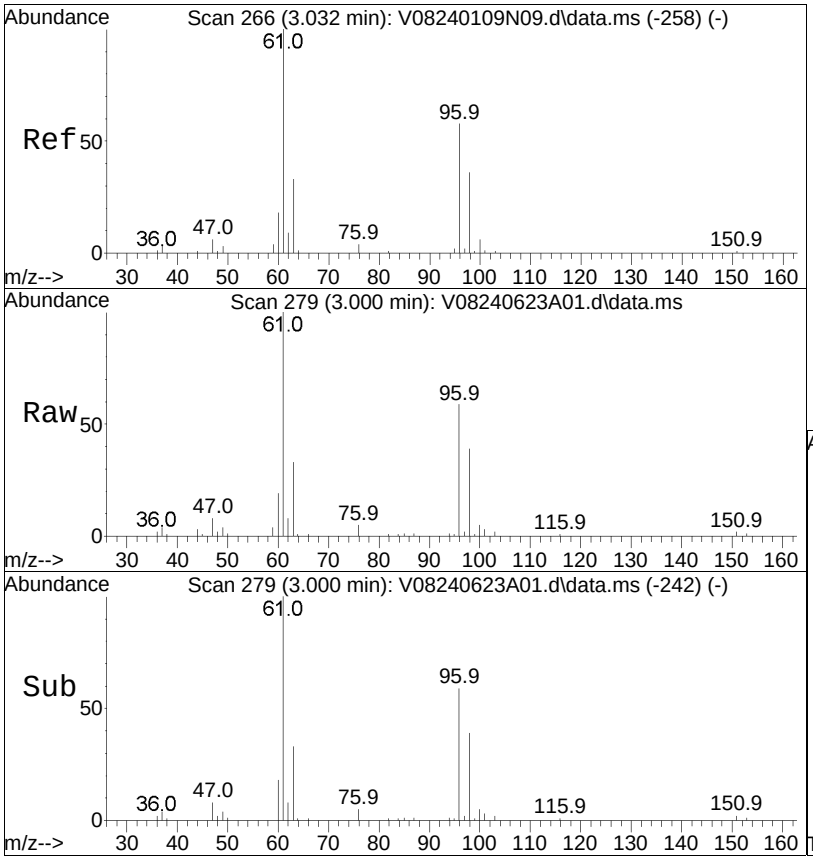


#7
Trichlorofluoromethane
Concen: 7.33 ug/L
RT: 2.512 min Scan# 186
Delta R.T. 0.000 min
Lab File: V08240623A01.d
Acq: 23 Jun 2024 11:28 am

Tgt Ion:101 Resp: 98471

Ion	Ratio	Lower	Upper
101	100		
103	65.4	53.8	80.6

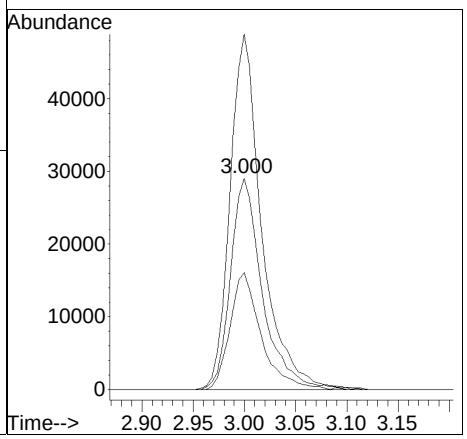


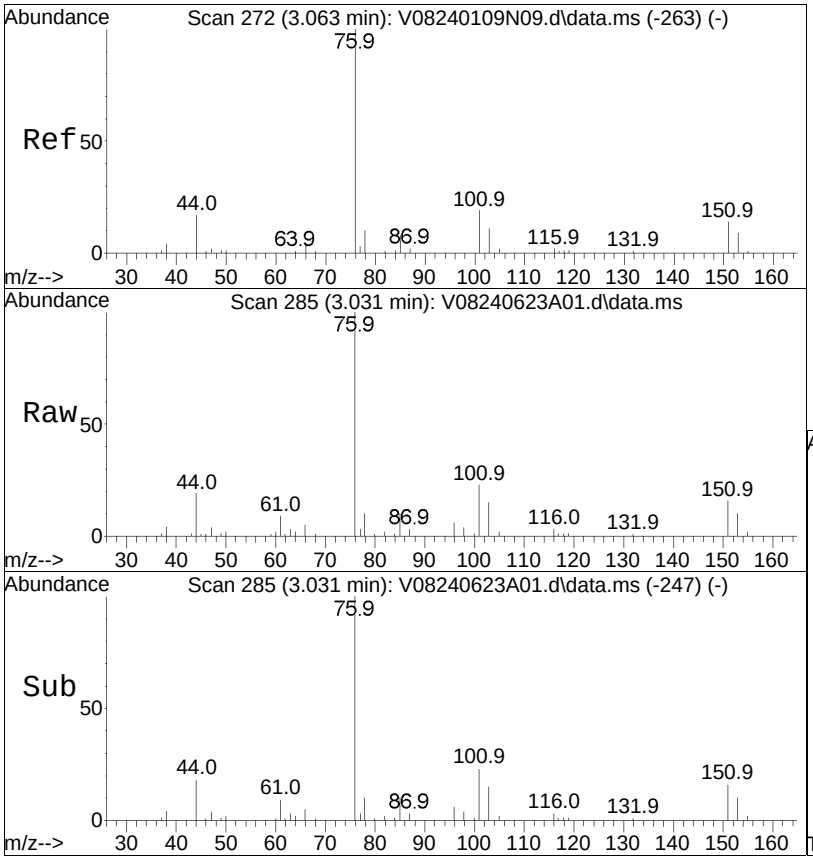


#10
1,1-Dichloroethene
Concen: 9.37 ug/L
RT: 3.000 min Scan# 279
Delta R.T. -0.005 min
Lab File: V08240623A01.d
Acq: 23 Jun 2024 11:28 am

Tgt Ion: 96 Resp: 62767

Ion	Ratio	Lower	Upper
96	100		
61	167.5	186.1	279.1#
63	53.9	57.6	86.4#

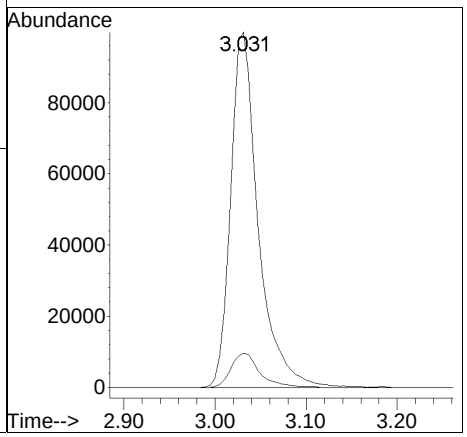


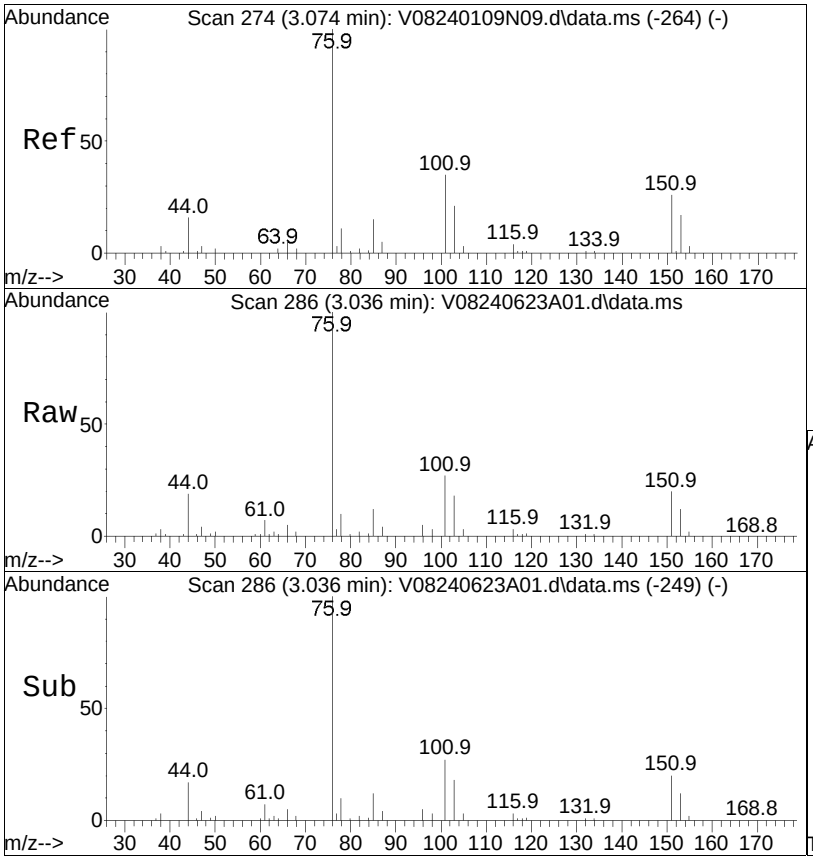


#11
Carbon disulfide
Concen: 9.21 ug/L
RT: 3.031 min Scan# 285
Delta R.T. 0.000 min
Lab File: V08240623A01.d
Acq: 23 Jun 2024 11:28 am

Tgt Ion: 76 Resp: 210068

Ion	Ratio	Lower	Upper
76	100		
78	10.0	5.7	11.7

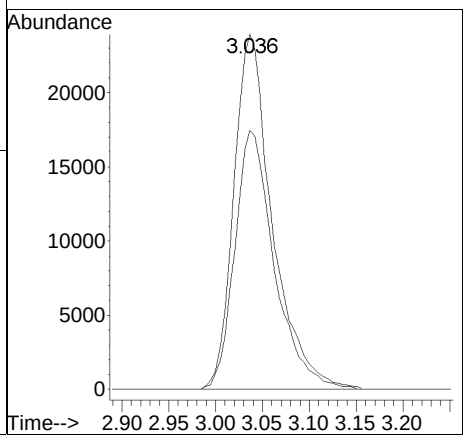


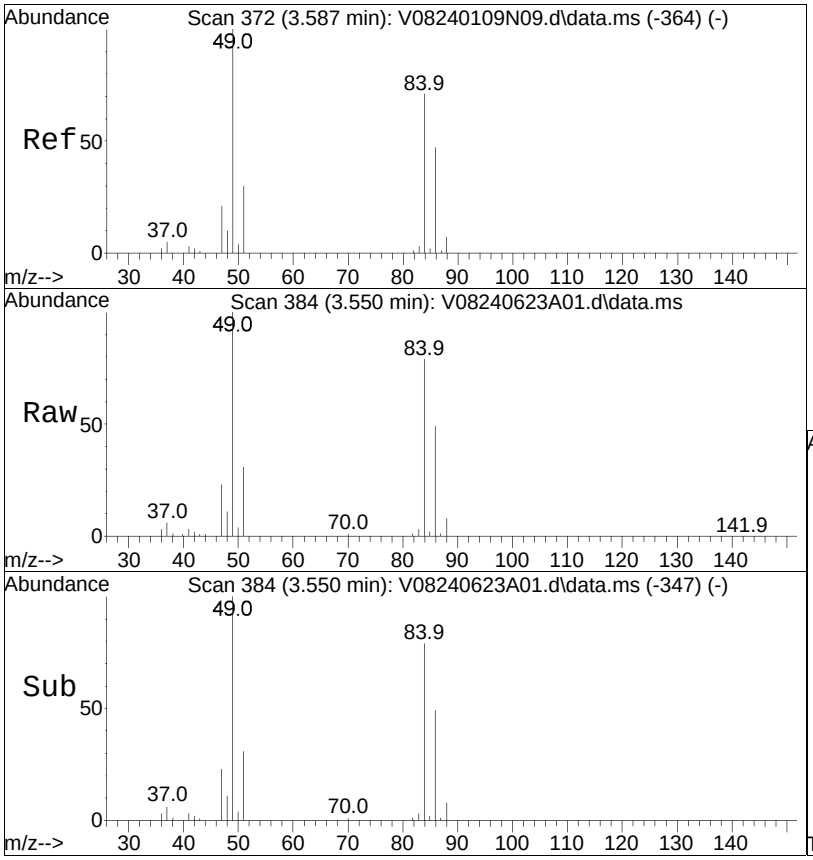


#12
Freon-113
Concen: 9.95 ug/L
RT: 3.036 min Scan# 286
Delta R.T. -0.006 min
Lab File: V08240623A01.d
Acq: 23 Jun 2024 11:28 am

Tgt Ion:101 Resp: 68573

Ion	Ratio	Lower	Upper
101	100		
151	74.8	59.8	89.8

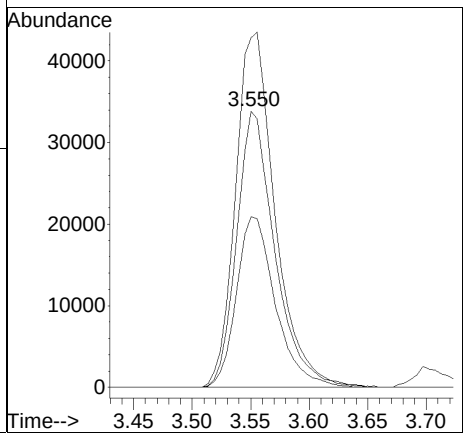


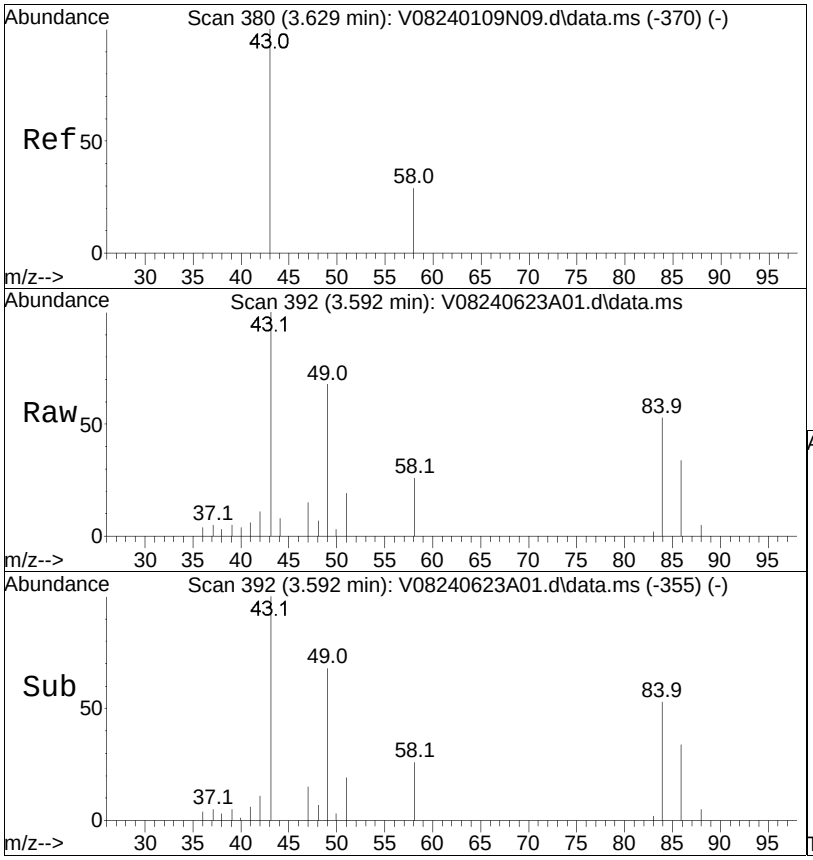


#15
Methylene chloride
Concen: 9.63 ug/L
RT: 3.550 min Scan# 384
Delta R.T. -0.005 min
Lab File: V08240623A01.d
Acq: 23 Jun 2024 11:28 am

Tgt Ion: 84 Resp: 76960

Ion	Ratio	Lower	Upper
84	100		
86	63.2	40.4	83.8
49	133.1	120.0	249.2

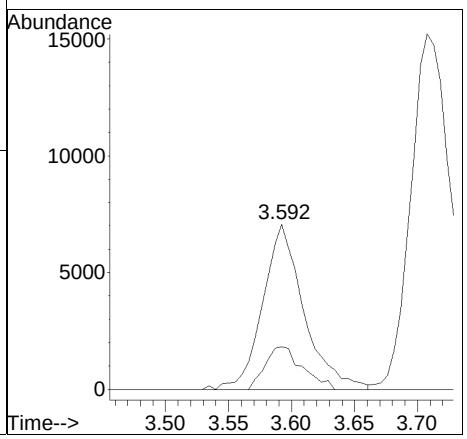


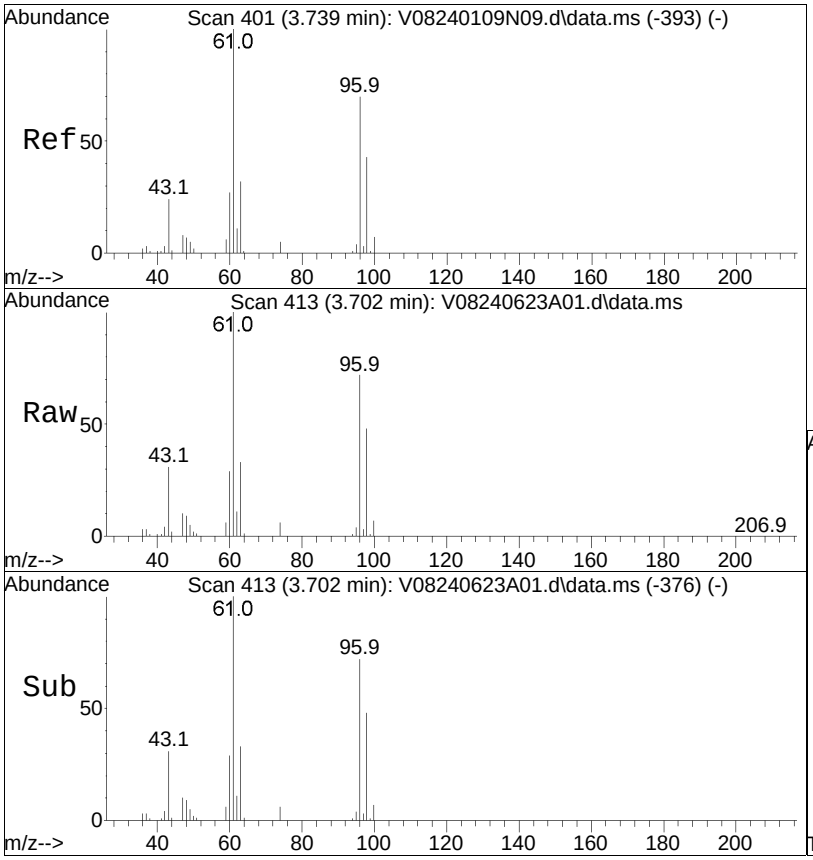


#17
Acetone
Concen: 10.08 ug/L
RT: 3.592 min Scan# 392
Delta R.T. -0.005 min
Lab File: V08240623A01.d
Acq: 23 Jun 2024 11:28 am

Tgt Ion: 43 Resp: 16078

Ion	Ratio	Lower	Upper
43	100		
58	23.3	24.2	36.4#

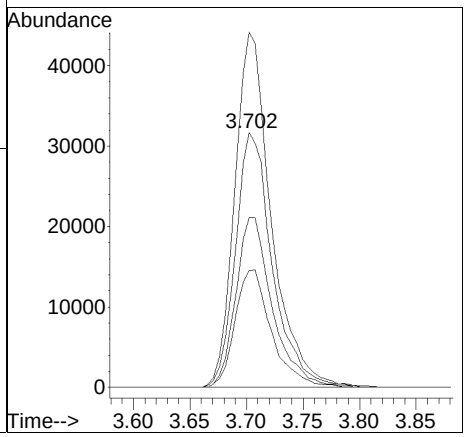


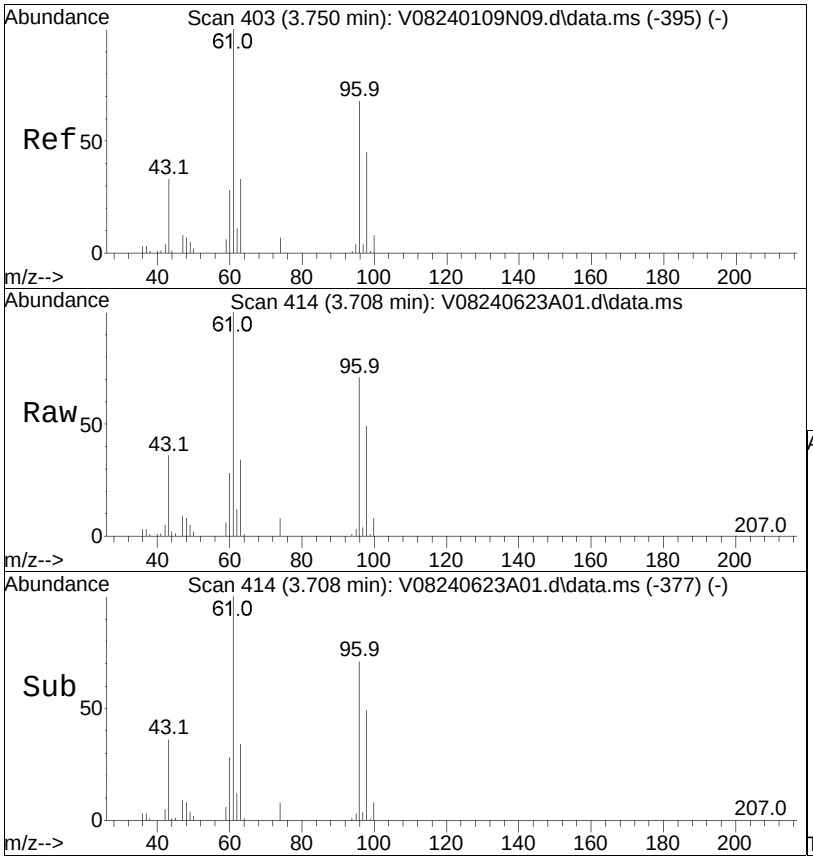


#18
trans-1,2-Dichloroethene
Concen: 9.52 ug/L
RT: 3.702 min Scan# 413
Delta R.T. -0.005 min
Lab File: V08240623A01.d
Acq: 23 Jun 2024 11:28 am

Tgt Ion: 96 Resp: 72228

Ion	Ratio	Lower	Upper
96	100		
61	137.6	124.0	257.6
98	65.9	41.2	85.6
63	45.4	38.4	79.7

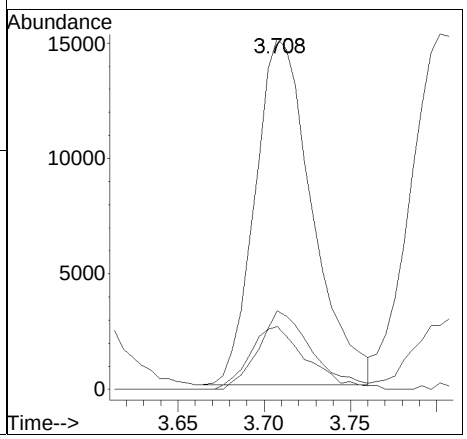


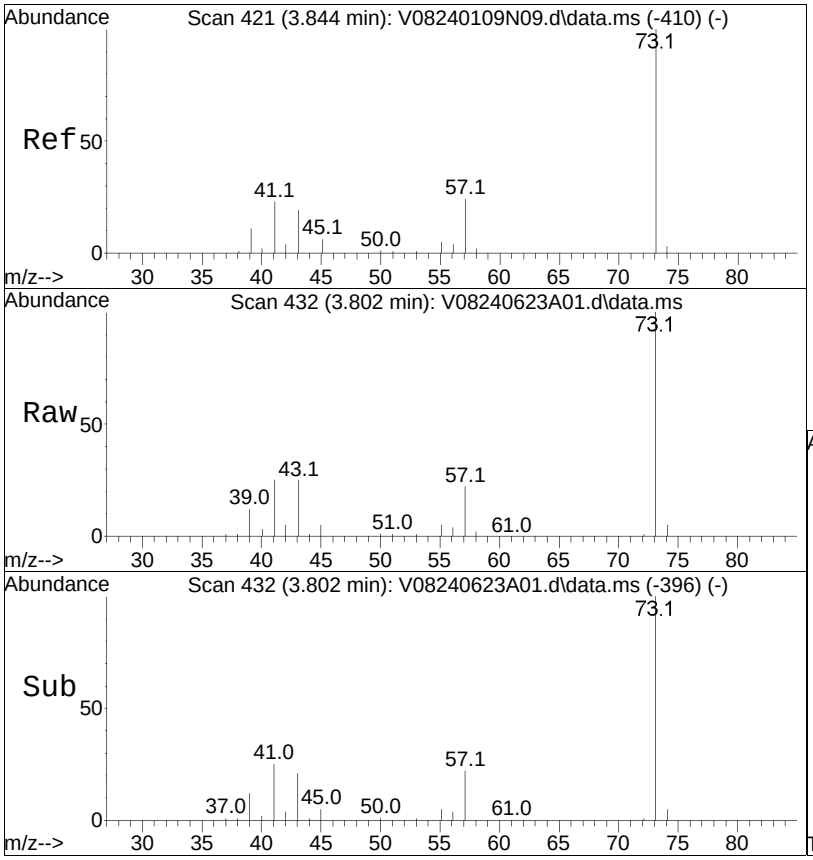


#19
Methyl acetate
Concen: 8.04 ug/L
RT: 3.708 min Scan# 414
Delta R.T. -0.006 min
Lab File: V08240623A01.d
Acq: 23 Jun 2024 11:28 am

Tgt Ion: 43 Resp: 34545

Ion	Ratio	Lower	Upper
43	100		
74	21.2	14.2	21.4
59	18.2	5.0	7.6#

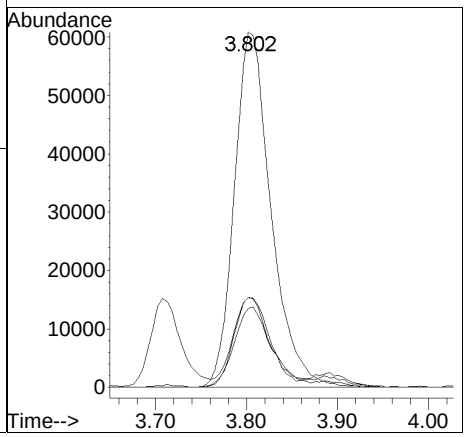


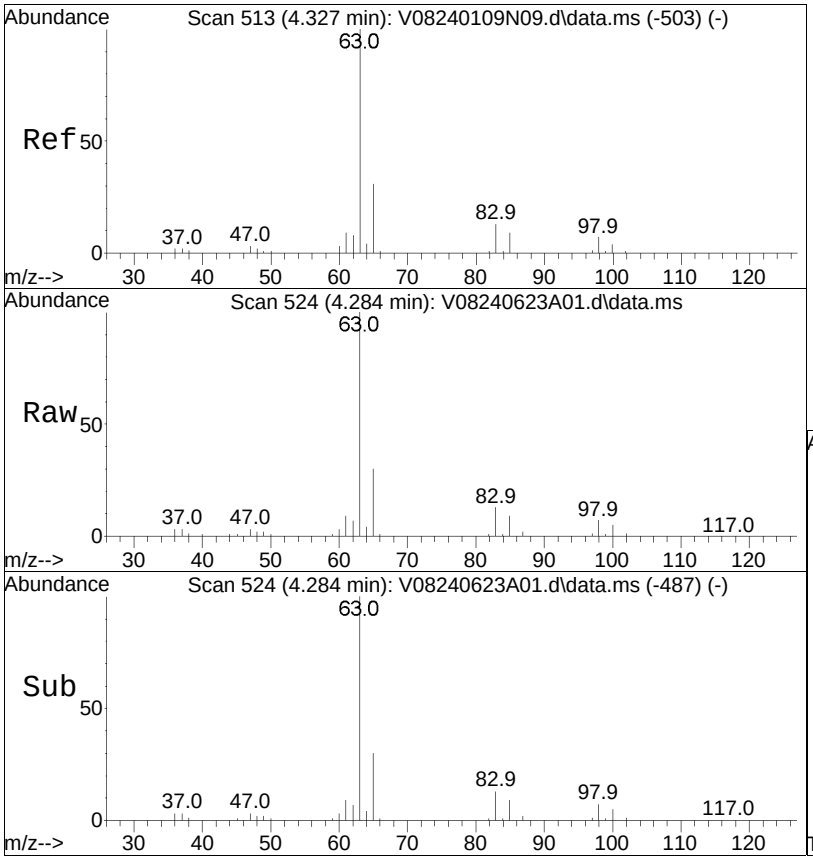


#20
Methyl tert-butyl ether
Concen: 8.36 ug/L
RT: 3.802 min Scan# 432
Delta R.T. -0.010 min
Lab File: V08240623A01.d
Acq: 23 Jun 2024 11:28 am

Tgt Ion: 73 Resp: 171005

Ion	Ratio	Lower	Upper
73	100		
57	22.6	17.5	36.3
43	26.1	15.3	31.9
41	25.1	15.3	31.7

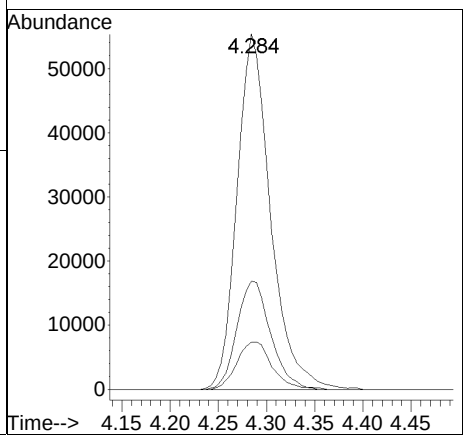


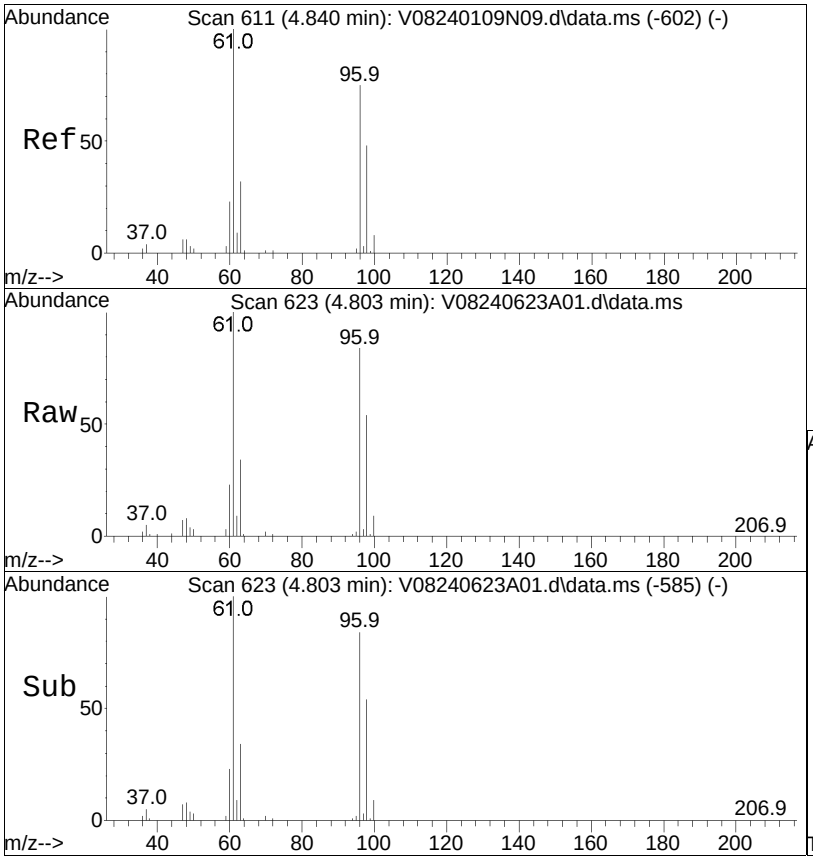


#23
1,1-Dichloroethane
Concen: 9.00 ug/L
RT: 4.284 min Scan# 524
Delta R.T. -0.005 min
Lab File: V08240623A01.d
Acq: 23 Jun 2024 11:28 am

Tgt Ion: 63 Resp: 134068

Ion	Ratio	Lower	Upper
63	100		
65	30.7	11.0	51.0
83	14.0	0.0	31.8

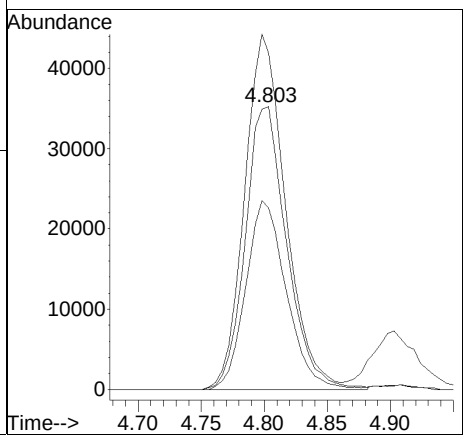


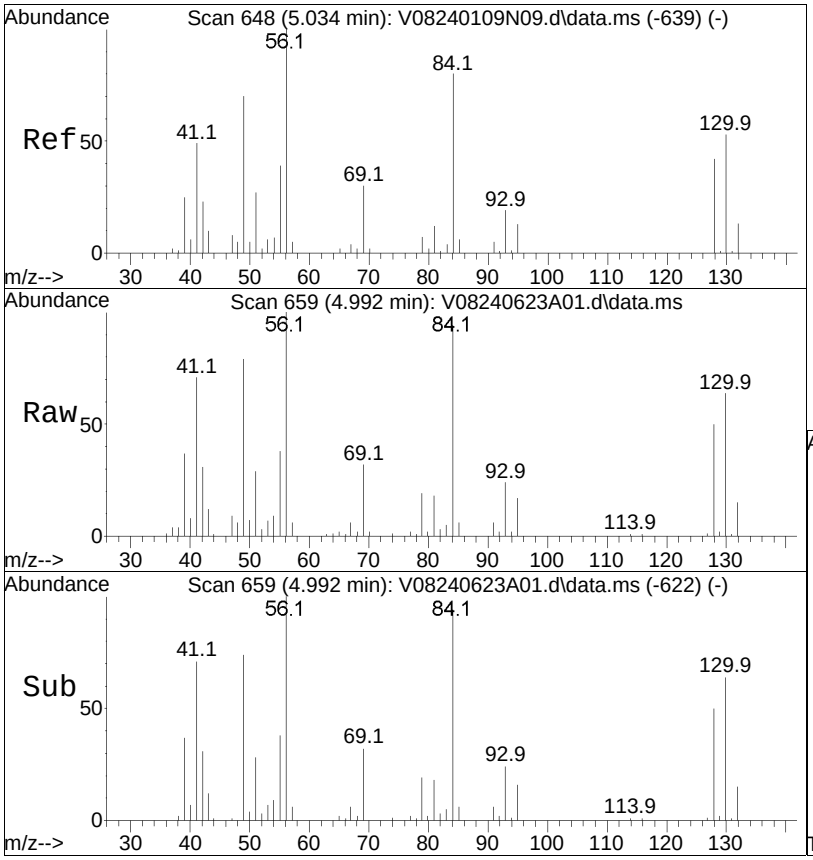


#28
cis-1,2-Dichloroethene
Concen: 9.47 ug/L
RT: 4.803 min Scan# 623
Delta R.T. 0.000 min
Lab File: V08240623A01.d
Acq: 23 Jun 2024 11:28 am

Tgt Ion: 96 Resp: 80544

Ion	Ratio	Lower	Upper
96	100		
61	123.9	149.4	224.2#
98	65.3	53.4	80.2

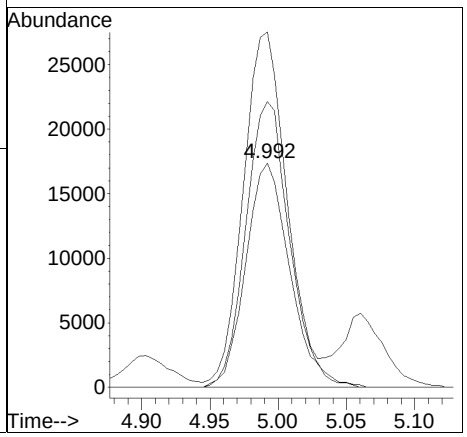


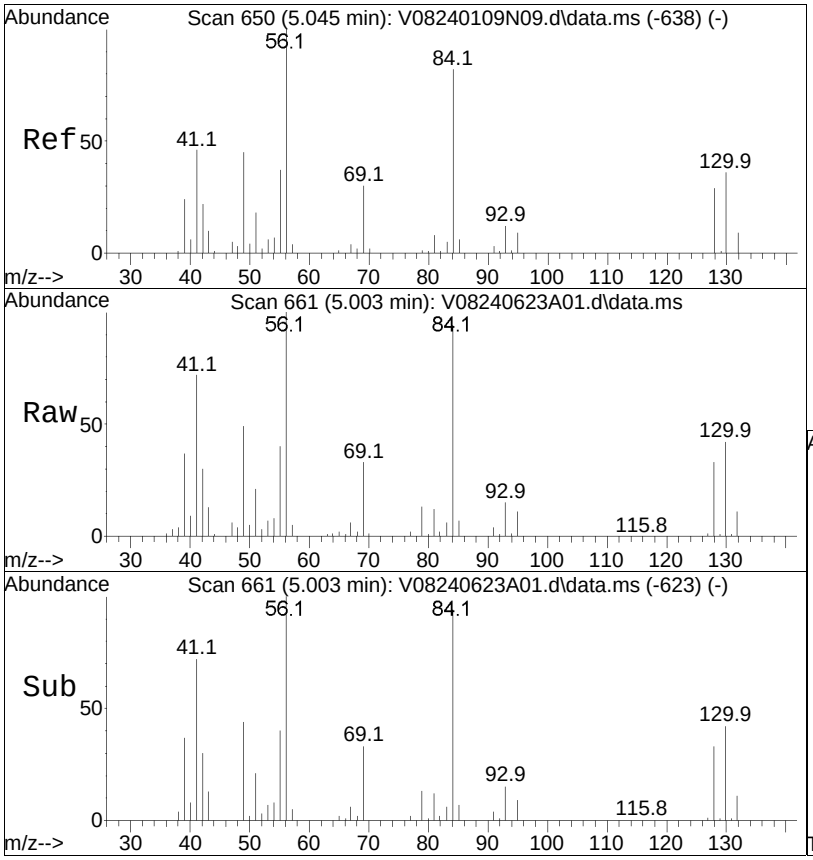


#30
Bromochloromethane
Concen: 9.49 ug/L
RT: 4.992 min Scan# 659
Delta R.T. -0.005 min
Lab File: V08240623A01.d
Acq: 23 Jun 2024 11:28 am

Tgt Ion:128 Resp: 38994

Ion	Ratio	Lower	Upper
128	100		
49	158.9	223.0	334.4#
130	127.3	111.4	167.0

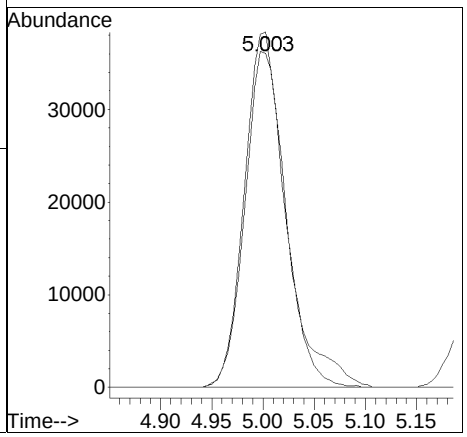


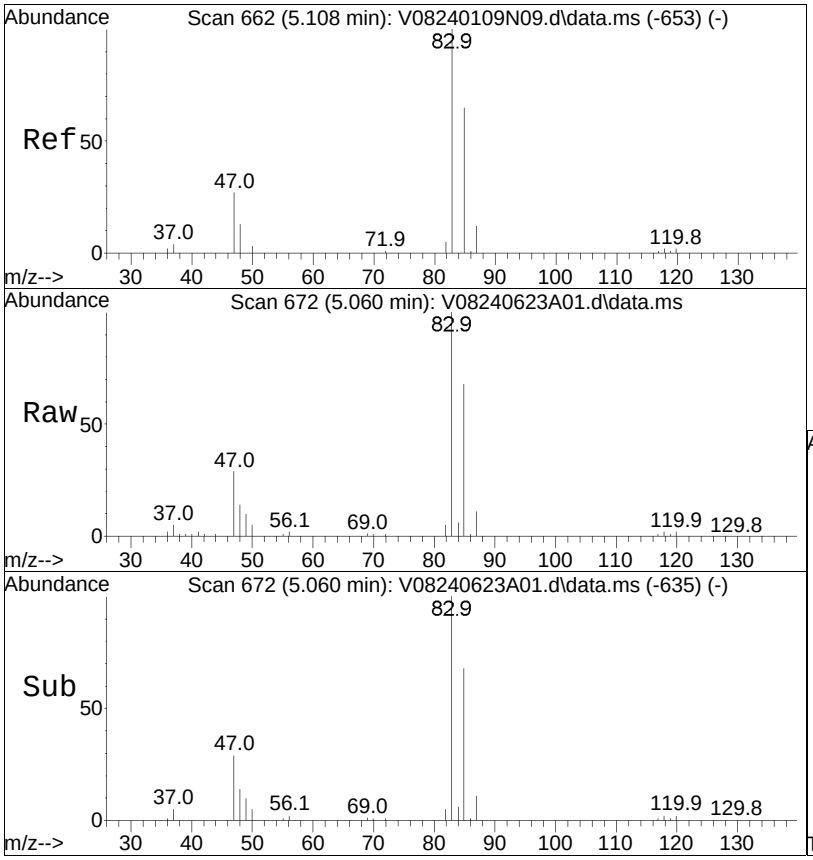


#31
Cyclohexane
Concen: 7.87 ug/L
RT: 5.003 min Scan# 661
Delta R.T. 0.001 min
Lab File: V08240623A01.d
Acq: 23 Jun 2024 11:28 am

Tgt Ion: 56 Resp: 104946

Ion	Ratio	Lower	Upper
56	100		
84	100.0	38.4	79.8#

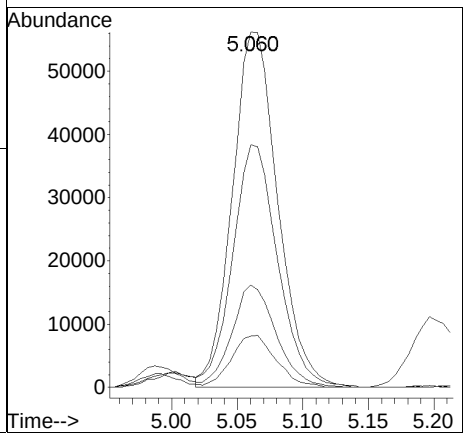


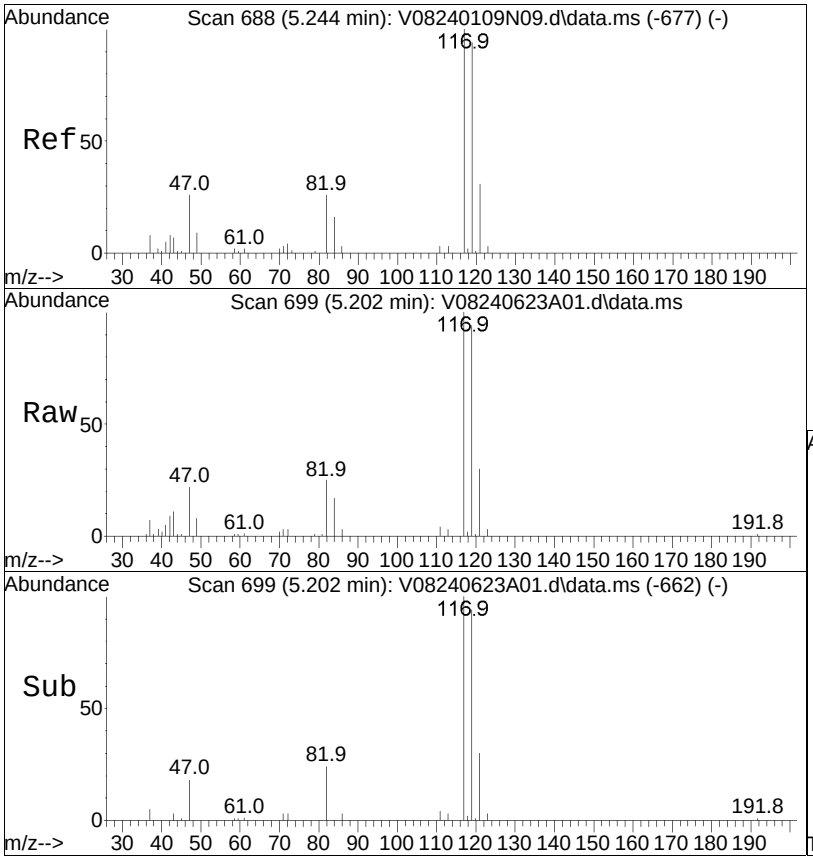


#32
Chloroform
Concen: 9.47 ug/L
RT: 5.060 min Scan# 672
Delta R.T. -0.005 min
Lab File: V08240623A01.d
Acq: 23 Jun 2024 11:28 am

Tgt Ion: 83 Resp: 136076

Ion	Ratio	Lower	Upper
83	100		
85	67.6	41.5	86.1
47	28.1	19.0	39.4
48	14.4	9.9	20.5

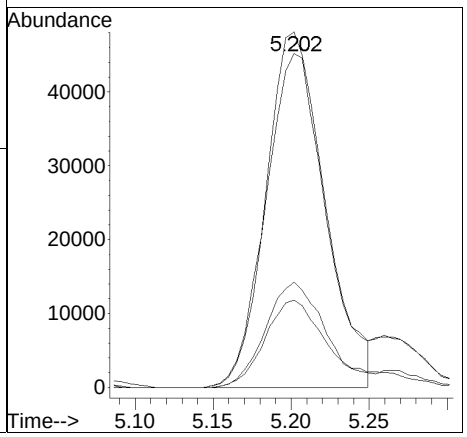


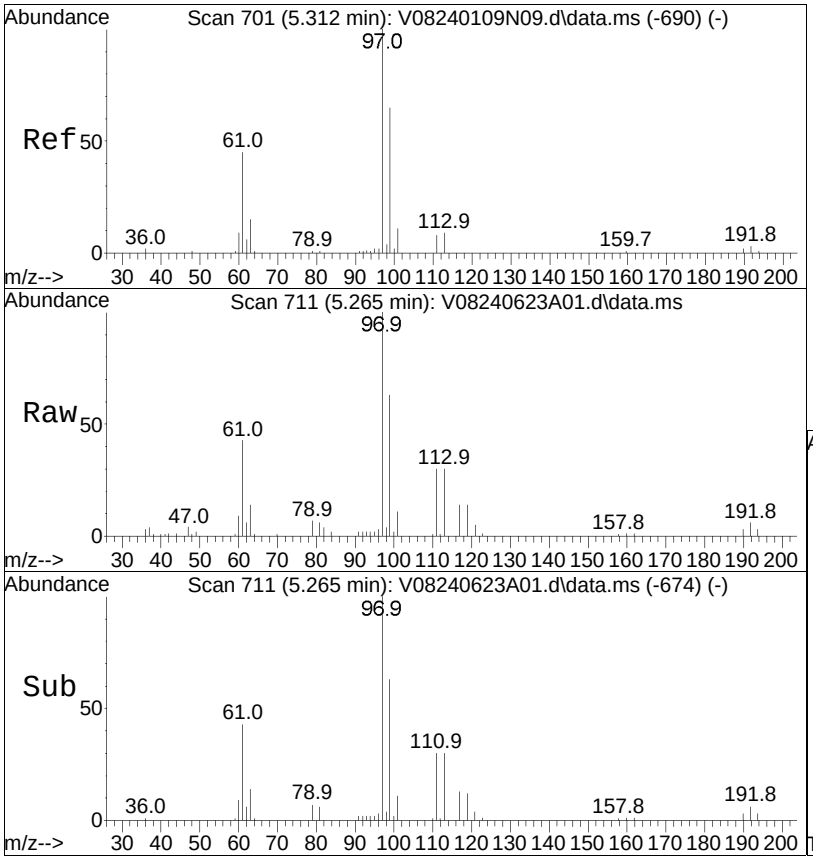


#34
Carbon tetrachloride
Concen: 10.87 ug/L
RT: 5.202 min Scan# 699
Delta R.T. -0.005 min
Lab File: V08240623A01.d
Acq: 23 Jun 2024 11:28 am

Tgt Ion:117 Resp: 127197

Ion	Ratio	Lower	Upper
117	100		
119	96.3	62.4	129.6
121	30.4	19.5	40.5
82	28.5	17.0	35.4

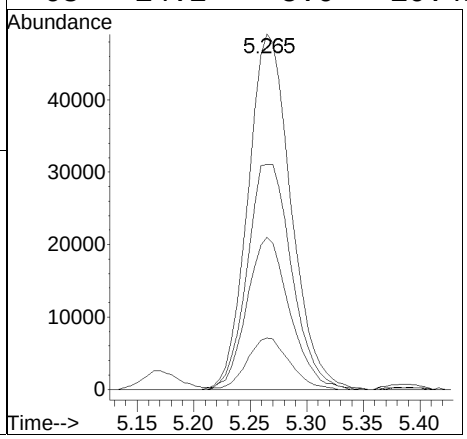


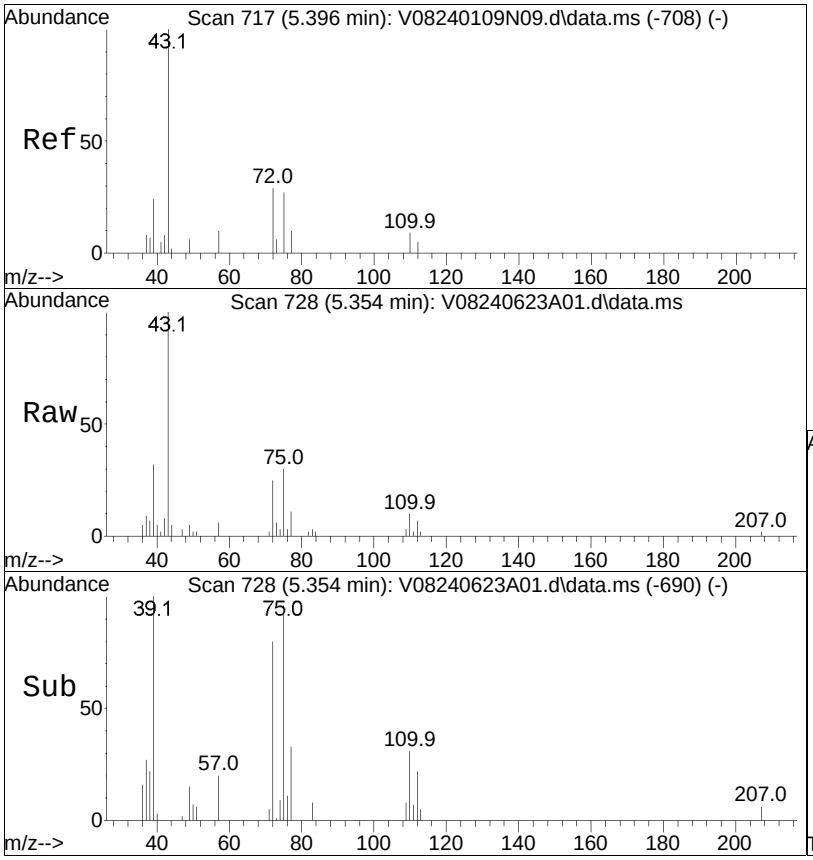


#37
1,1,1-Trichloroethane
Concen: 10.36 ug/L
RT: 5.265 min Scan# 711
Delta R.T. -0.005 min
Lab File: V08240623A01.d
Acq: 23 Jun 2024 11:28 am

Tgt Ion: 97 Resp: 130154

Ion	Ratio	Lower	Upper
97	100		
99	65.4	40.7	84.5
61	42.8	35.4	73.4
63	14.2	5.0	10.4#

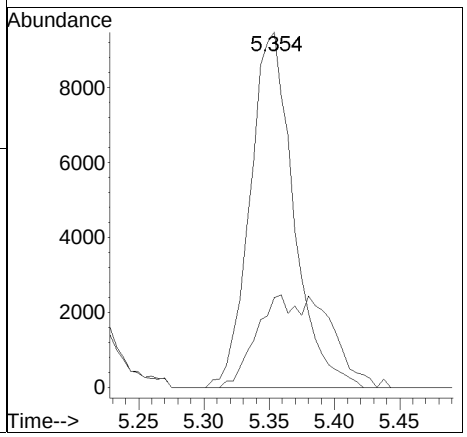


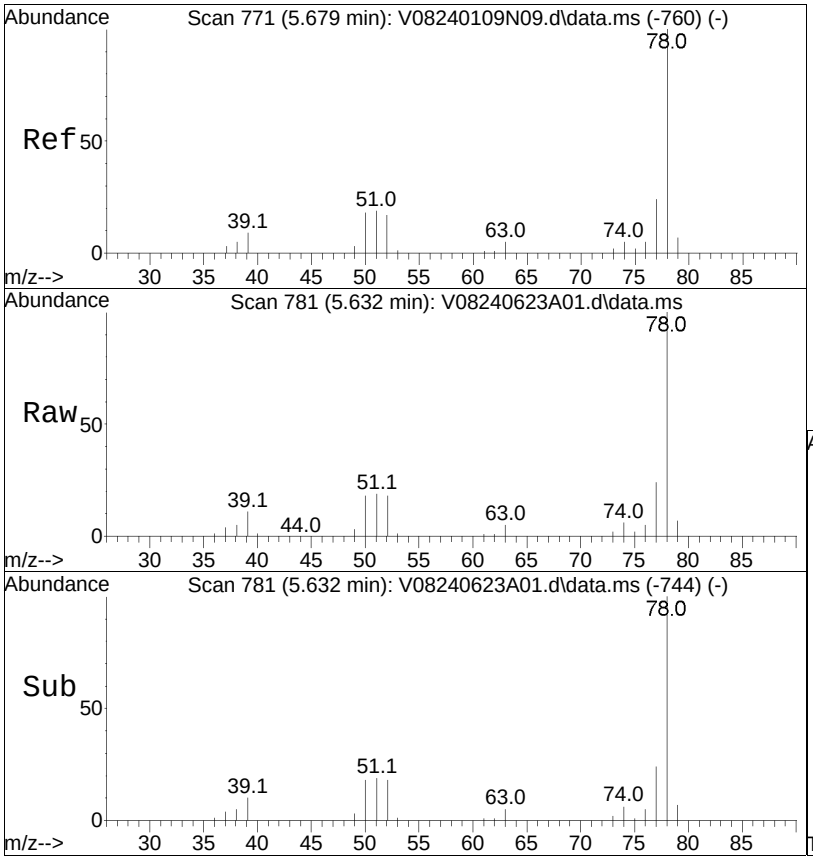


#39
2-Butanone
Concen: 7.95 ug/L M3
RT: 5.354 min Scan# 728
Delta R.T. -0.000 min
Lab File: V08240623A01.d
Acq: 23 Jun 2024 11:28 am

Tgt Ion: 43 Resp: 22034

Ion	Ratio	Lower	Upper
43	100		
72	25.5	10.9	16.3#

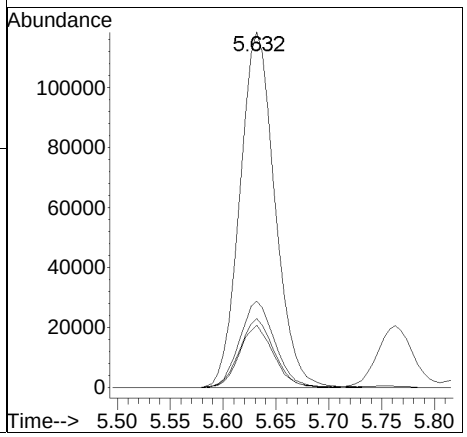


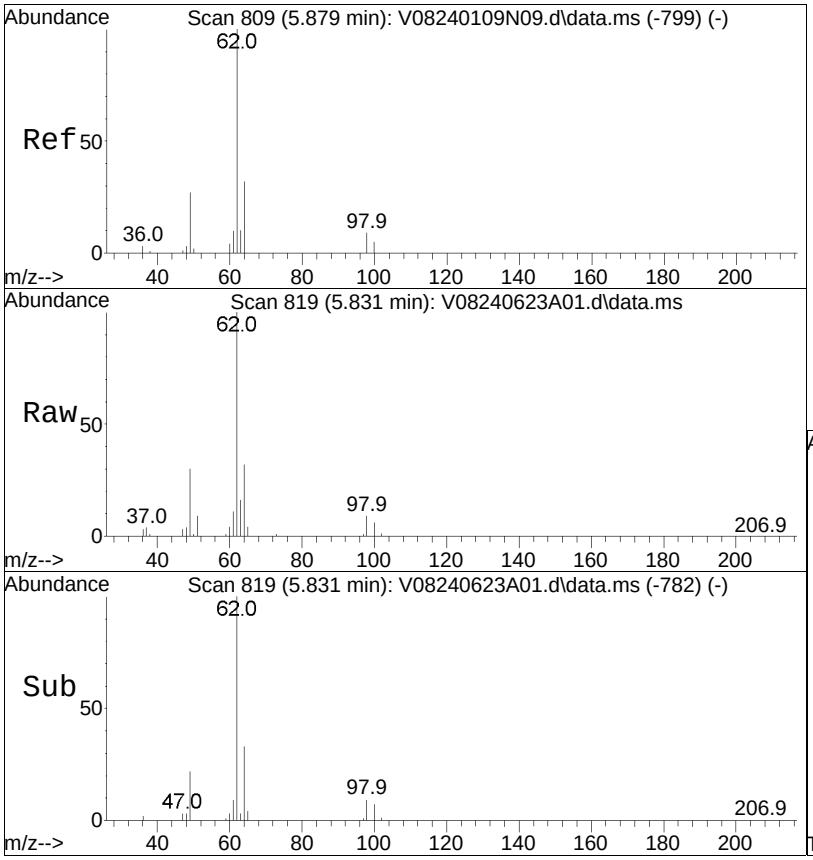


#41
Benzene
Concen: 8.64 ug/L
RT: 5.632 min Scan# 781
Delta R.T. -0.005 min
Lab File: V08240623A01.d
Acq: 23 Jun 2024 11:28 am

Tgt Ion: 78 Resp: 271944

Ion	Ratio	Lower	Upper
78	100		
77	24.4	15.7	32.7
51	18.9	16.0	33.2
52	17.0	15.3	31.9

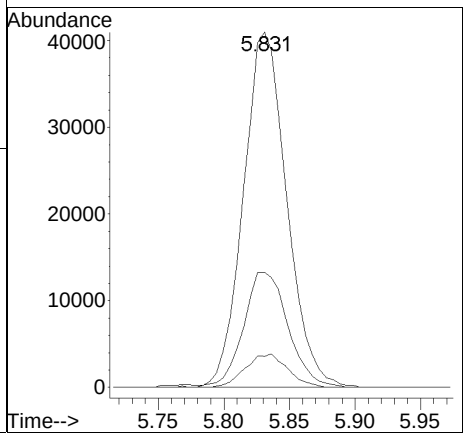


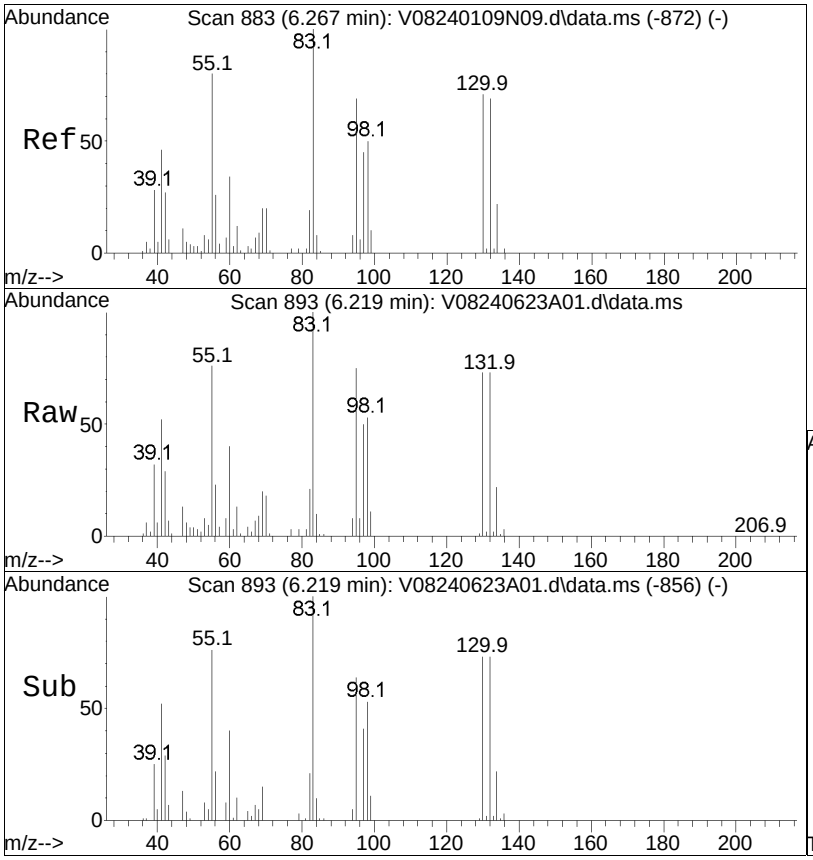


#44
1,2-Dichloroethane
Concen: 8.91 ug/L
RT: 5.831 min Scan# 819
Delta R.T. -0.005 min
Lab File: V08240623A01.d
Acq: 23 Jun 2024 11:28 am

Tgt Ion: 62 Resp: 94114

Ion	Ratio	Lower	Upper
62	100		
64	33.4	11.2	51.2
98	9.3	0.0	26.1

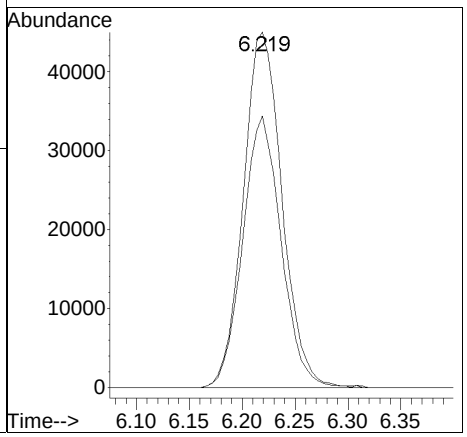


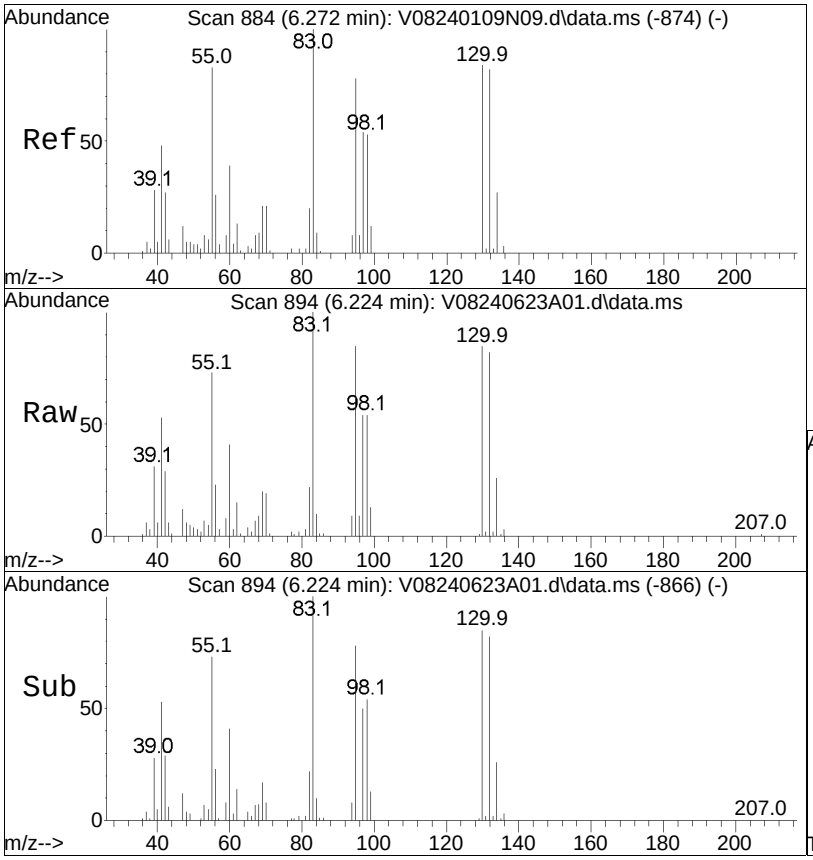


#47
Methyl cyclohexane
Concen: 9.17 ug/L
RT: 6.219 min Scan# 893
Delta R.T. -0.005 min
Lab File: V08240623A01.d
Acq: 23 Jun 2024 11:28 am

Tgt Ion: 83 Resp: 114553

Ion	Ratio	Lower	Upper
83	100		
55	75.6	88.3	132.5#

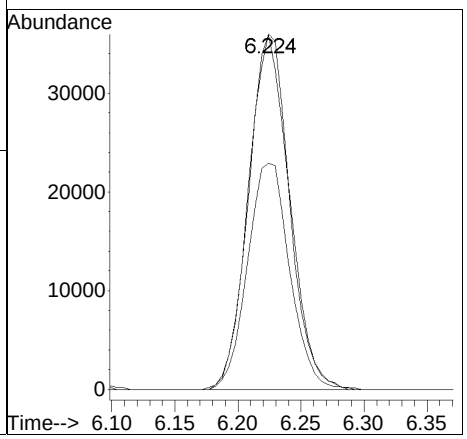


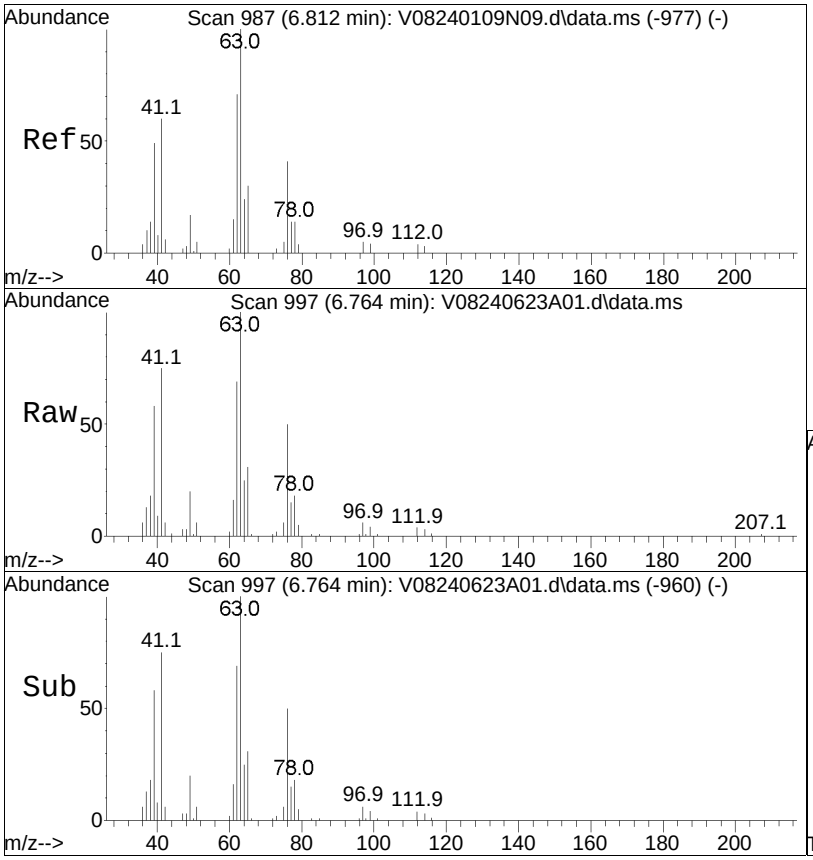


#48
Trichloroethene
Concen: 9.67 ug/L
RT: 6.224 min Scan# 894
Delta R.T. -0.005 min
Lab File: V08240623A01.d
Acq: 23 Jun 2024 11:28 am

Tgt Ion: 95 Resp: 80412

Ion	Ratio	Lower	Upper
95	100		
97	66.2	55.5	83.3
130	102.1	76.6	115.0

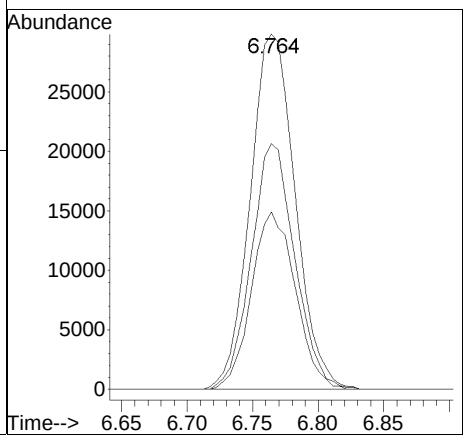


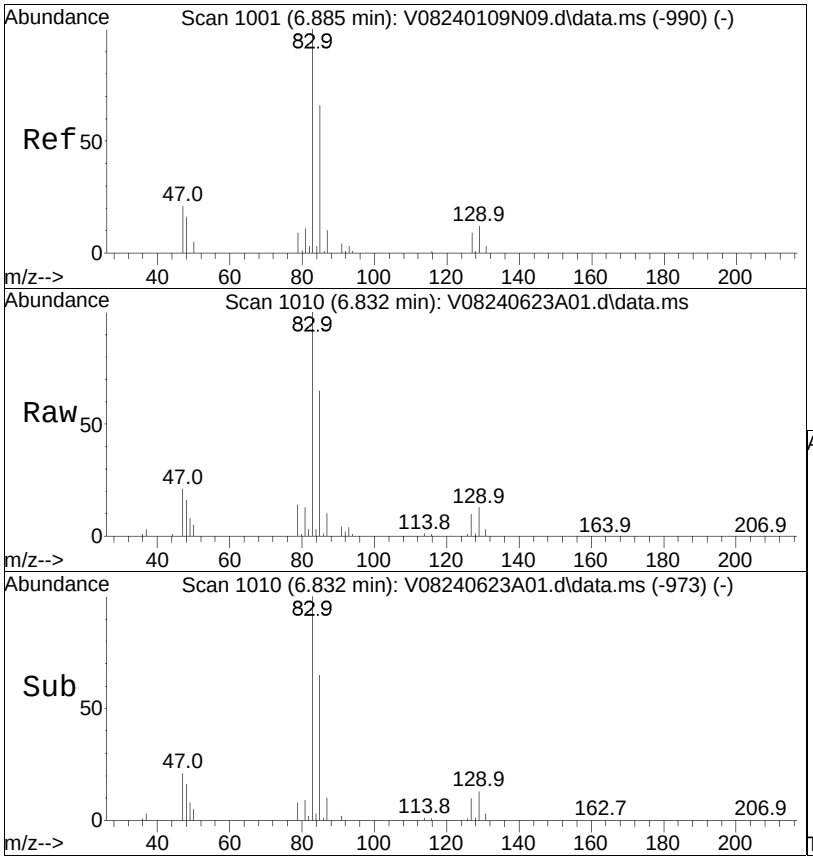


#51
1,2-Dichloropropane
Concen: 8.54 ug/L
RT: 6.764 min Scan# 997
Delta R.T. -0.005 min
Lab File: V08240623A01.d
Acq: 23 Jun 2024 11:28 am

Tgt Ion: 63 Resp: 71371

Ion	Ratio	Lower	Upper
63	100		
62	67.0	58.6	87.8
76	48.9	38.0	57.0

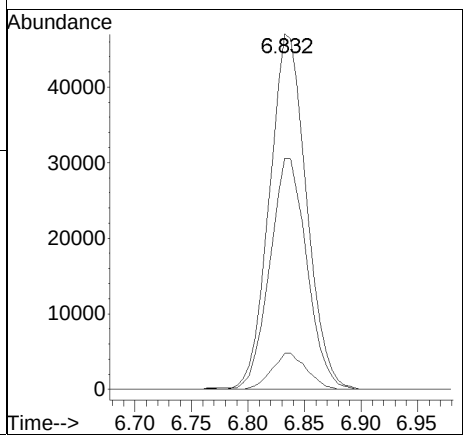


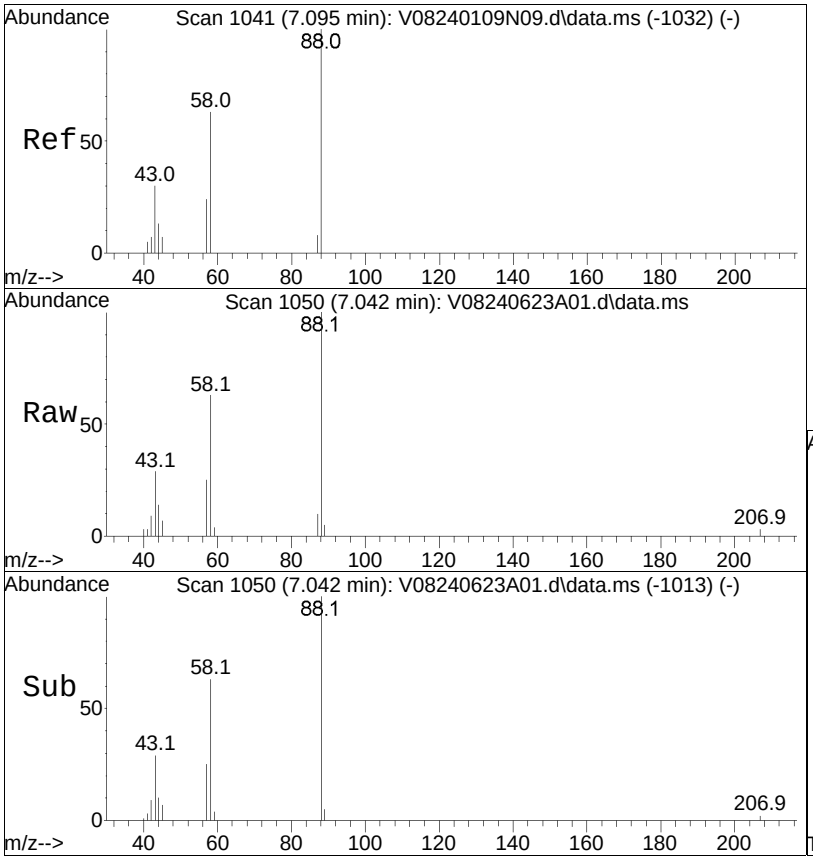


#54
Bromodichloromethane
Concen: 9.34 ug/L
RT: 6.832 min Scan# 1010
Delta R.T. -0.006 min
Lab File: V08240623A01.d
Acq: 23 Jun 2024 11:28 am

Tgt Ion: 83 Resp: 107331

Ion	Ratio	Lower	Upper
83	100		
85	65.0	52.3	78.5
127	9.6	6.2	9.4#

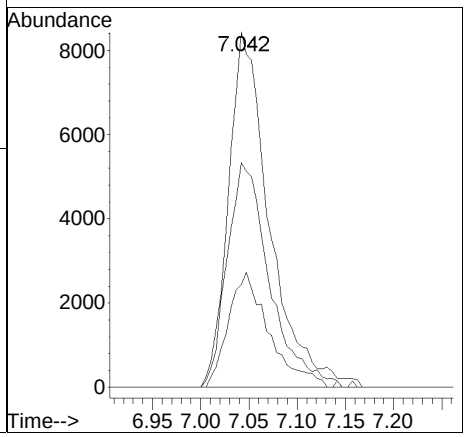


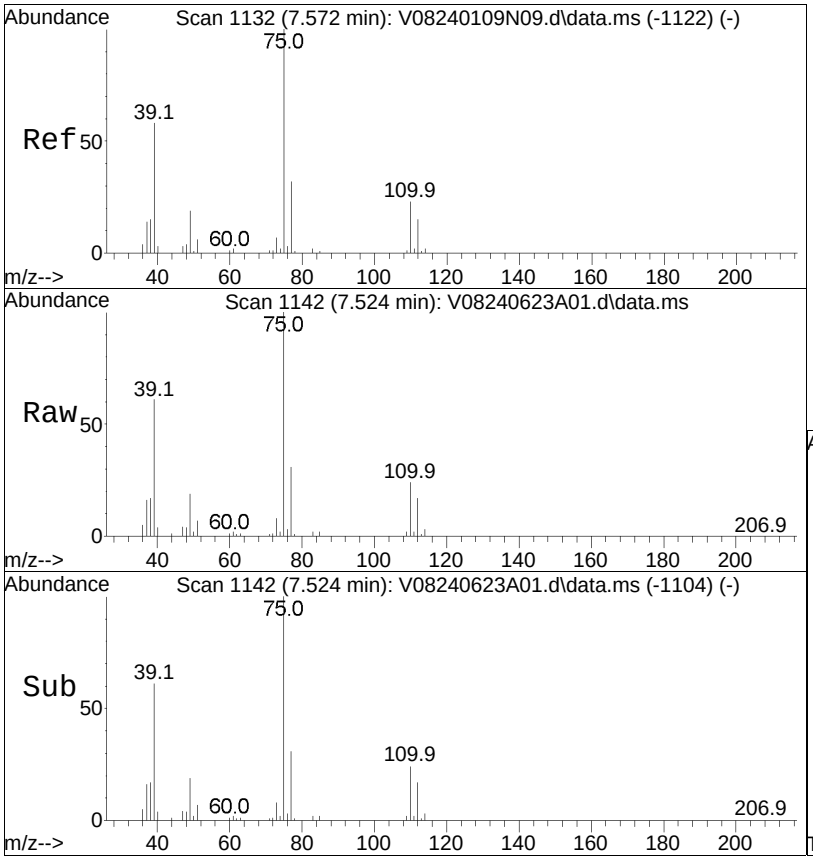


#57
1,4-Dioxane
Concen: 525.33 ug/L
RT: 7.042 min Scan# 1050
Delta R.T. -0.005 min
Lab File: V08240623A01.d
Acq: 23 Jun 2024 11:28 am

Tgt Ion: 88 Resp: 24979

Ion	Ratio	Lower	Upper
88	100		
58	65.4	76.7	115.1#
43	32.3	36.2	54.2#

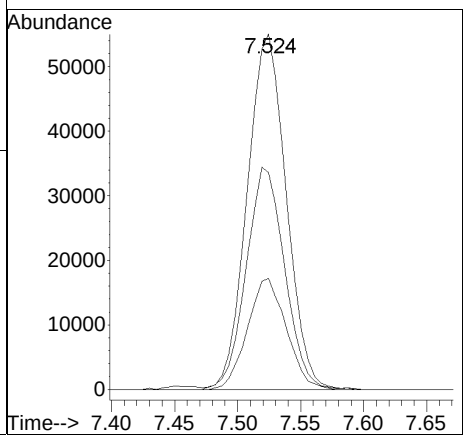


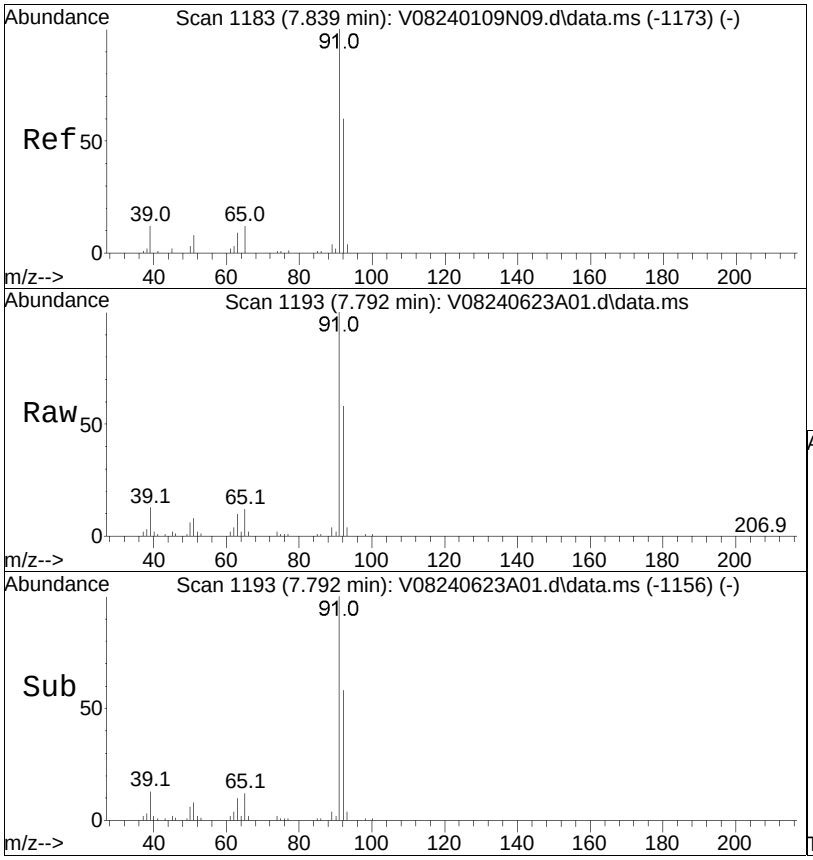


#58
cis-1,3-Dichloropropene
Concen: 8.89 ug/L
RT: 7.524 min Scan# 1142
Delta R.T. 0.000 min
Lab File: V08240623A01.d
Acq: 23 Jun 2024 11:28 am

Tgt Ion: 75 Resp: 118481

Ion	Ratio	Lower	Upper
75	100		
77	31.1	25.0	37.4
39	61.7	50.1	75.1

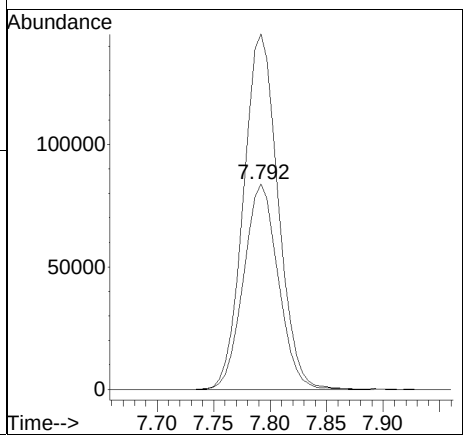


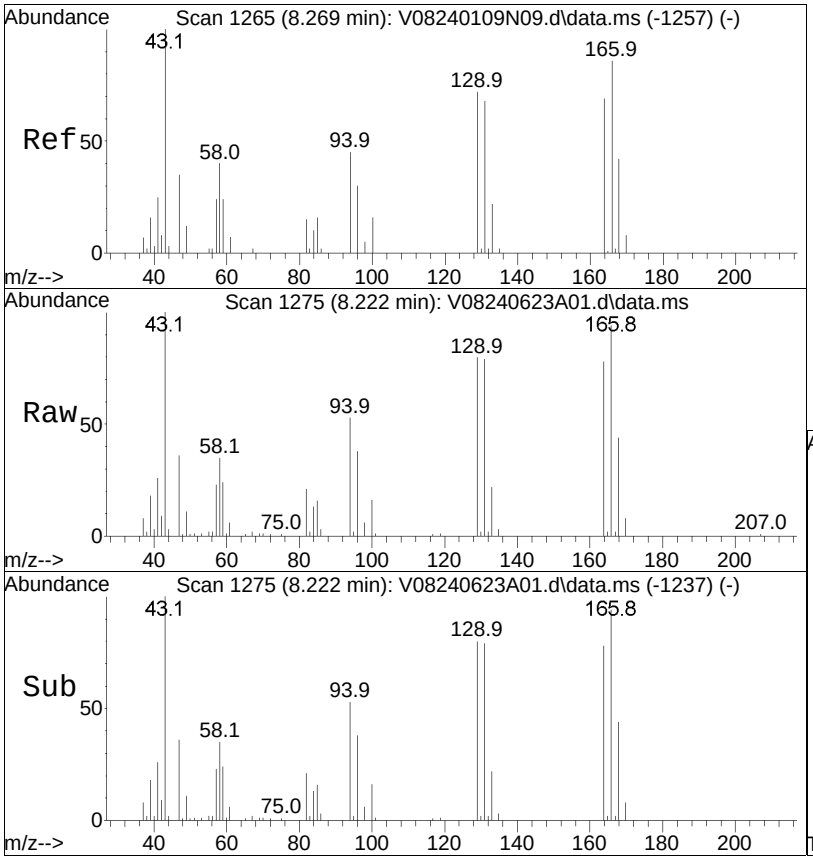


#61
Toluene
Concen: 9.04 ug/L
RT: 7.792 min Scan# 1193
Delta R.T. -0.005 min
Lab File: V08240623A01.d
Acq: 23 Jun 2024 11:28 am

Tgt Ion: 92 Resp: 178801

Ion	Ratio	Lower	Upper
92	100		
91	172.5	139.8	209.6

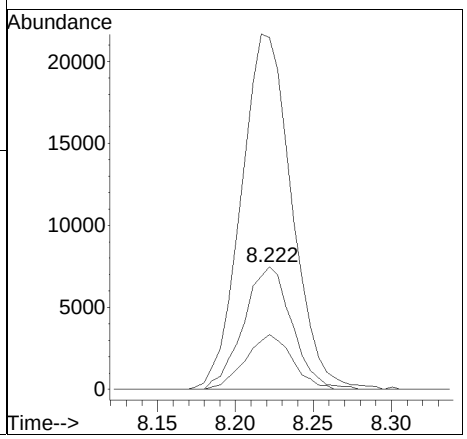


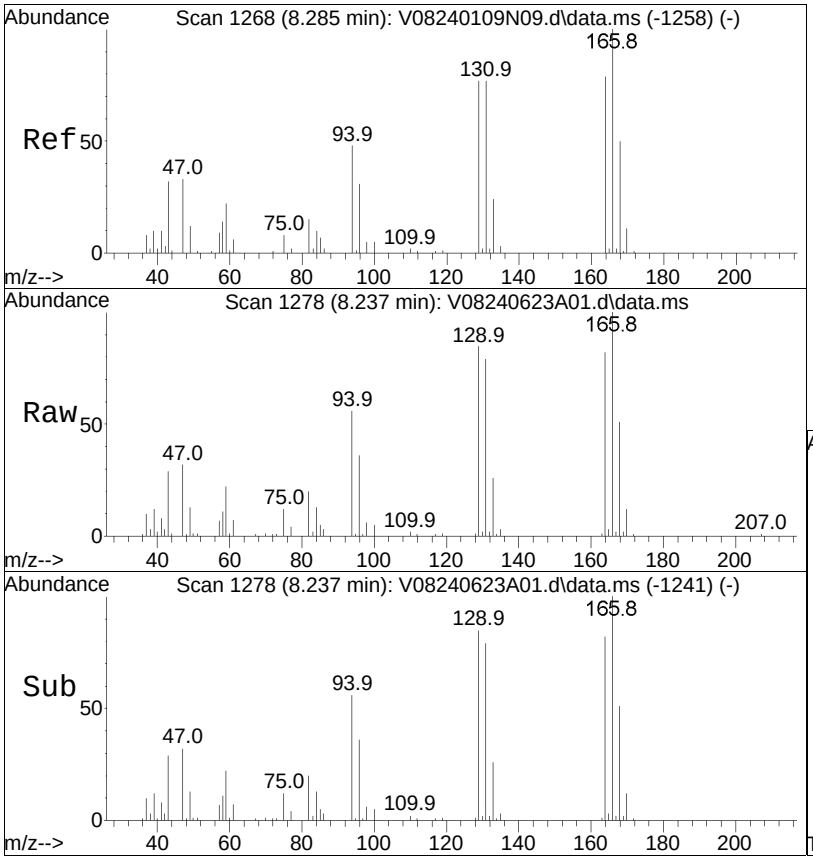


#62
4-Methyl-2-pentanone
Concen: 7.44 ug/L
RT: 8.222 min Scan# 1275
Delta R.T. -0.000 min
Lab File: V08240623A01.d
Acq: 23 Jun 2024 11:28 am

Tgt Ion: 58 Resp: 16156

Ion	Ratio	Lower	Upper
58	100		
100	43.3	20.2	30.2#
43	302.8	196.6	295.0#

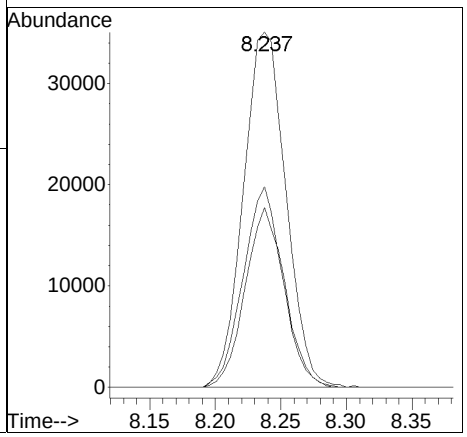


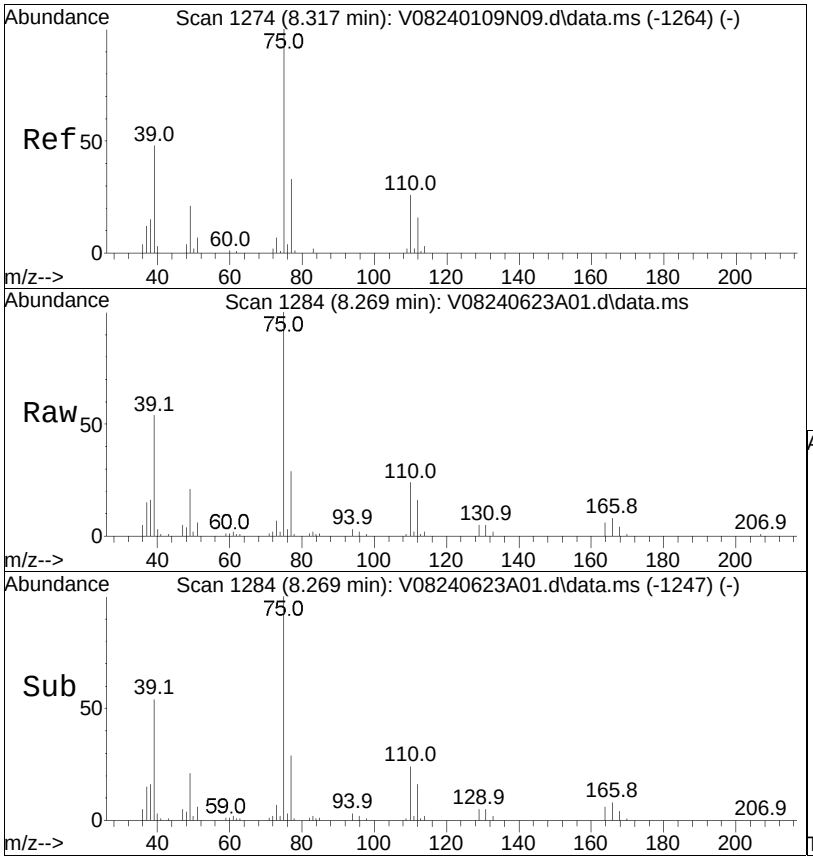


#63
Tetrachloroethene
Concen: 9.67 ug/L
RT: 8.237 min Scan# 1278
Delta R.T. -0.006 min
Lab File: V08240623A01.d
Acq: 23 Jun 2024 11:28 am

Tgt Ion:166 Resp: 79180

Ion	Ratio	Lower	Upper
166	100		
168	47.4	28.2	68.2
94	52.8	38.4	78.4

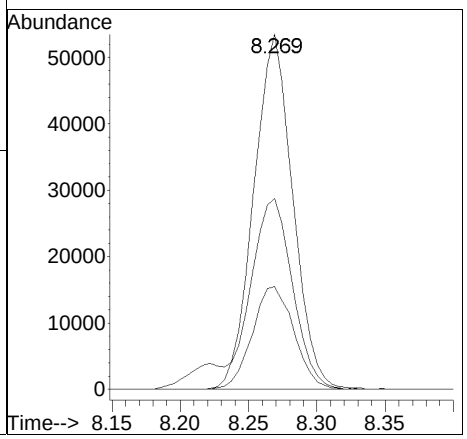


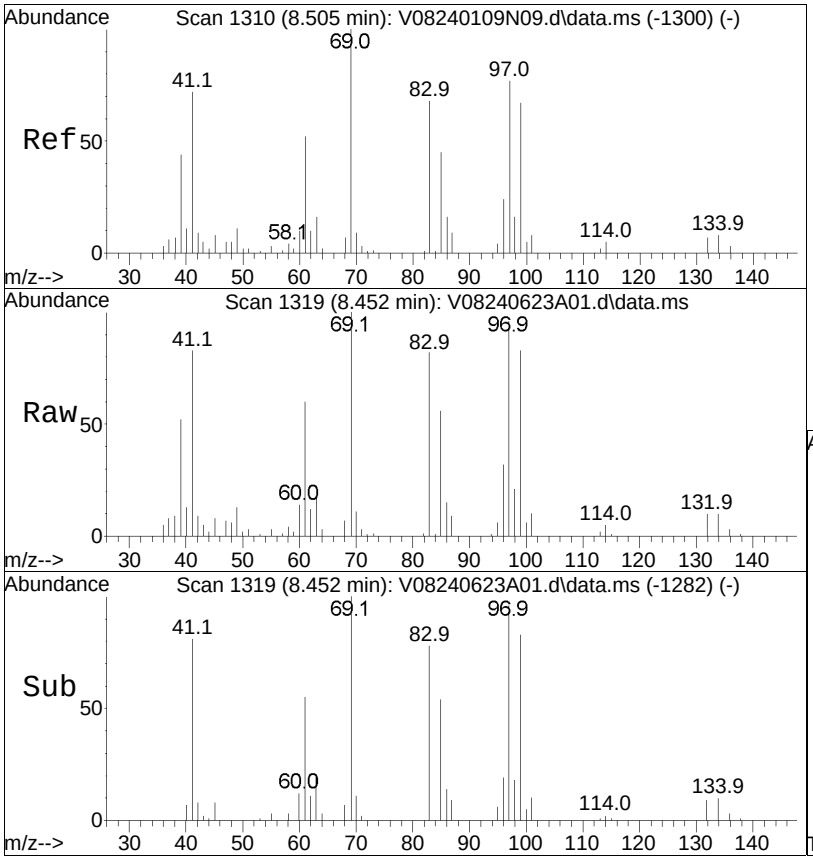


#65
trans-1,3-Dichloropropene
Concen: 9.00 ug/L
RT: 8.269 min Scan# 1284
Delta R.T. -0.005 min
Lab File: V08240623A01.d
Acq: 23 Jun 2024 11:28 am

Tgt Ion: 75 Resp: 106467

Ion	Ratio	Lower	Upper
75	100		
77	30.9	12.4	52.4
39	56.9	42.8	82.8

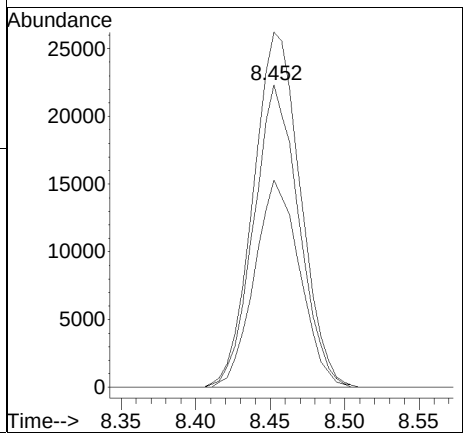


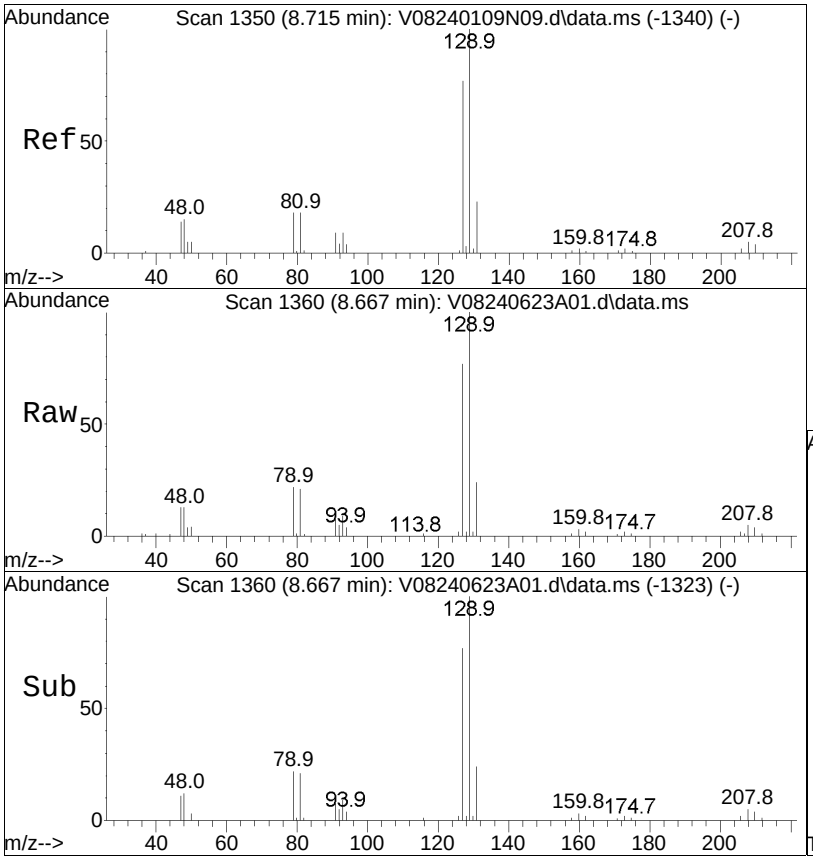


#68
1,1,2-Trichloroethane
Concen: 8.77 ug/L
RT: 8.452 min Scan# 1319
Delta R.T. -0.006 min
Lab File: V08240623A01.d
Acq: 23 Jun 2024 11:28 am

Tgt Ion: 83 Resp: 47184

Ion	Ratio	Lower	Upper
83	100		
97	122.5	89.8	129.8
85	68.9	44.4	84.4

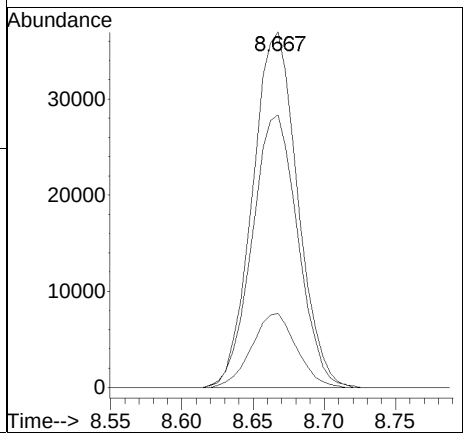


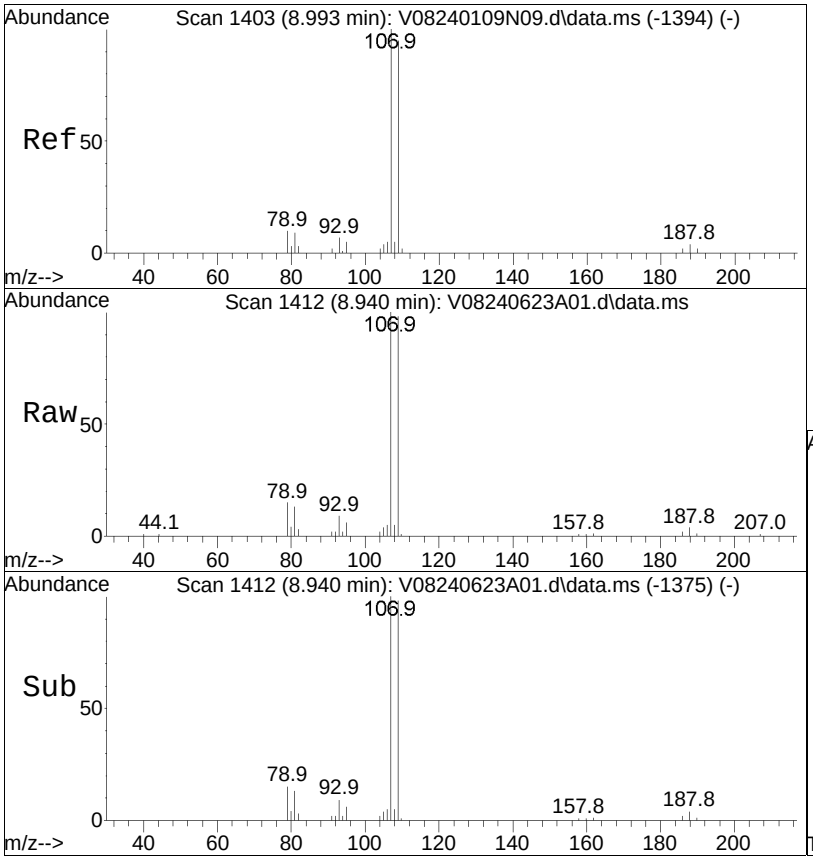


#69
Chlorodibromomethane
Concen: 9.66 ug/L
RT: 8.667 min Scan# 1360
Delta R.T. -0.006 min
Lab File: V08240623A01.d
Acq: 23 Jun 2024 11:28 am

Tgt Ion:129 Resp: 81380

Ion	Ratio	Lower	Upper
129	100		
81	20.7	2.9	42.9
127	77.7	57.8	97.8

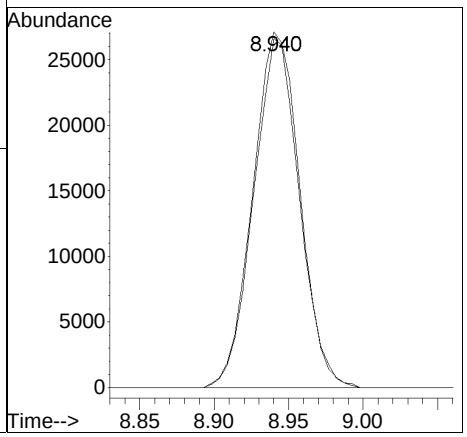


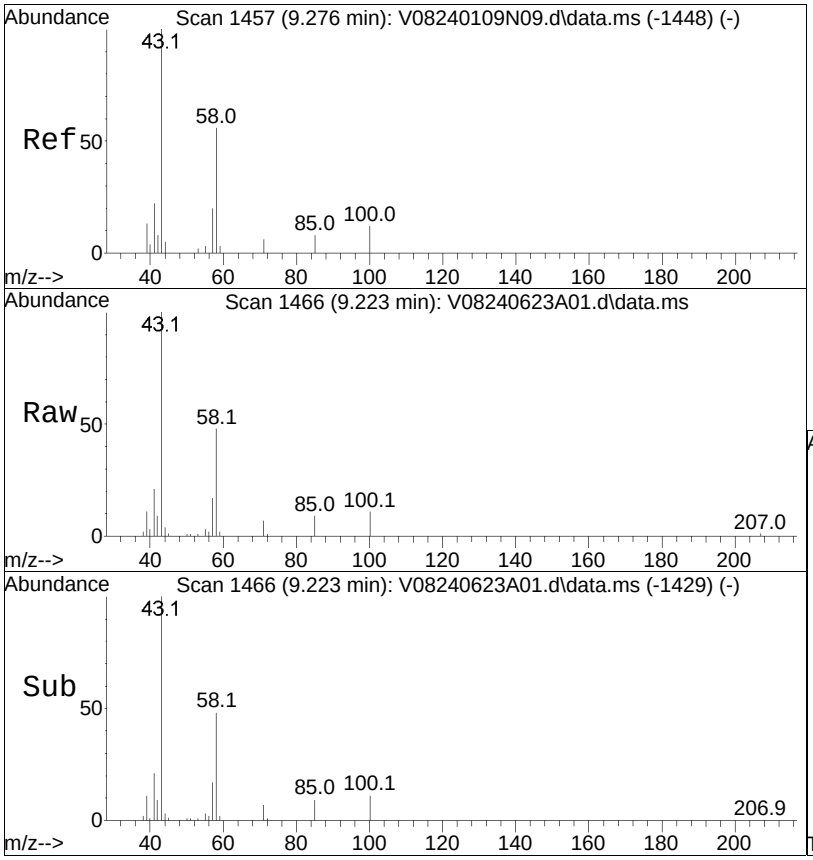


#71
1,2-Dibromoethane
Concen: 9.47 ug/L
RT: 8.940 min Scan# 1412
Delta R.T. -0.005 min
Lab File: V08240623A01.d
Acq: 23 Jun 2024 11:28 am

Tgt Ion:107 Resp: 59616

Ion	Ratio	Lower	Upper
107	100		
109	94.9	74.3	111.5

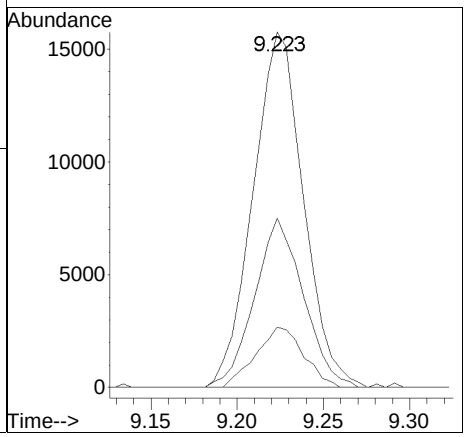


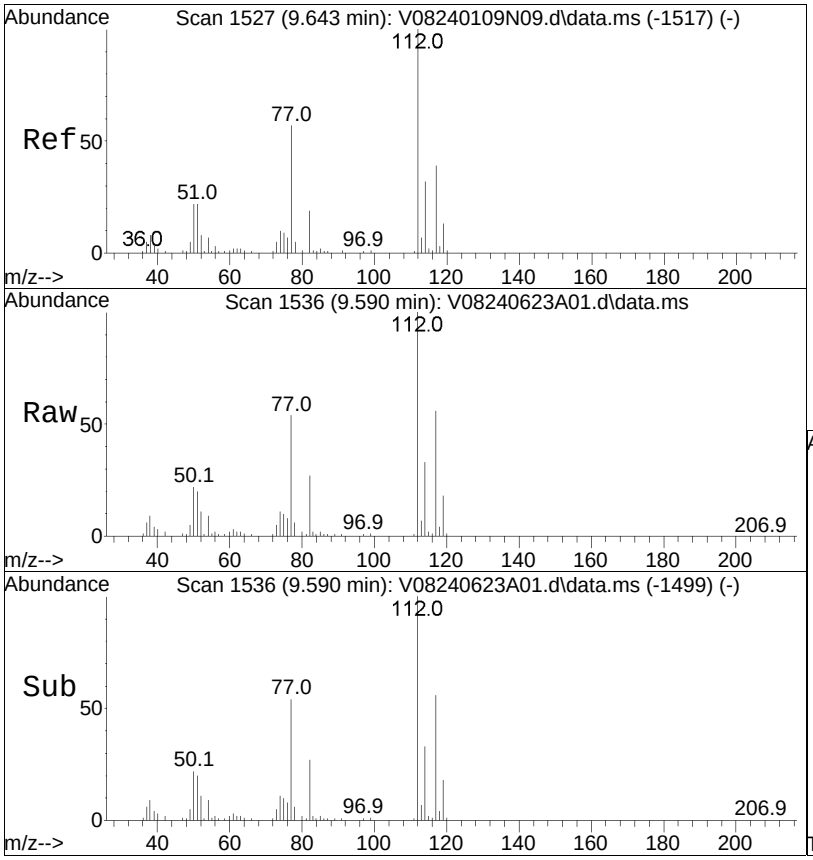


#72
2-Hexanone
Concen: 7.03 ug/L
RT: 9.223 min Scan# 1466
Delta R.T. -0.005 min
Lab File: V08240623A01.d
Acq: 23 Jun 2024 11:28 am

Tgt Ion: 43 Resp: 31964

Ion	Ratio	Lower	Upper
43	100		
58	46.2	41.2	61.8
57	16.1	17.2	25.8#

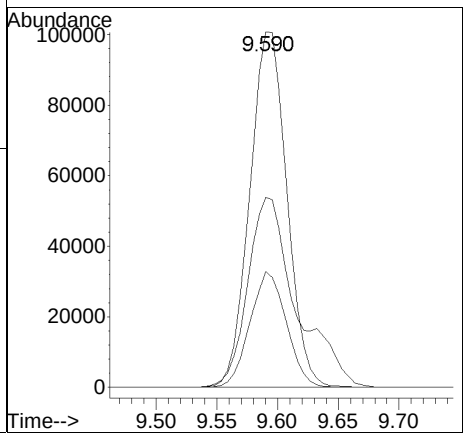


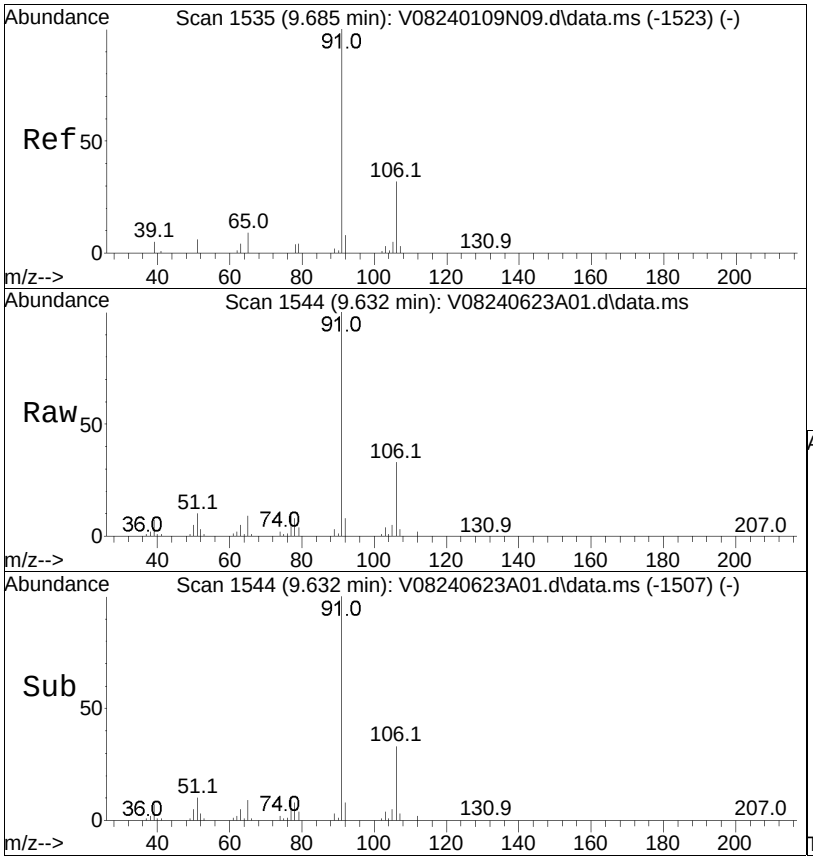


#73
Chlorobenzene
Concen: 9.75 ug/L
RT: 9.590 min Scan# 1536
Delta R.T. -0.005 min
Lab File: V08240623A01.d
Acq: 23 Jun 2024 11:28 am

Tgt Ion:112 Resp: 214209

Ion	Ratio	Lower	Upper
112	100		
77	70.0	55.4	83.0
114	31.9	25.4	38.2

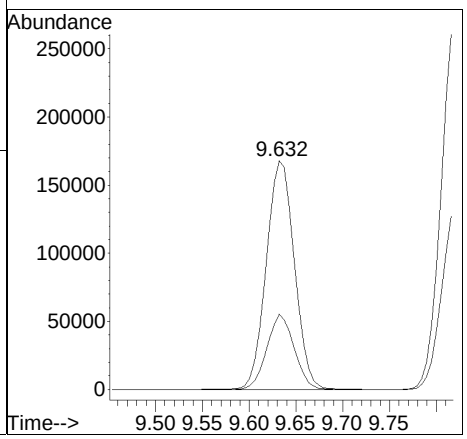


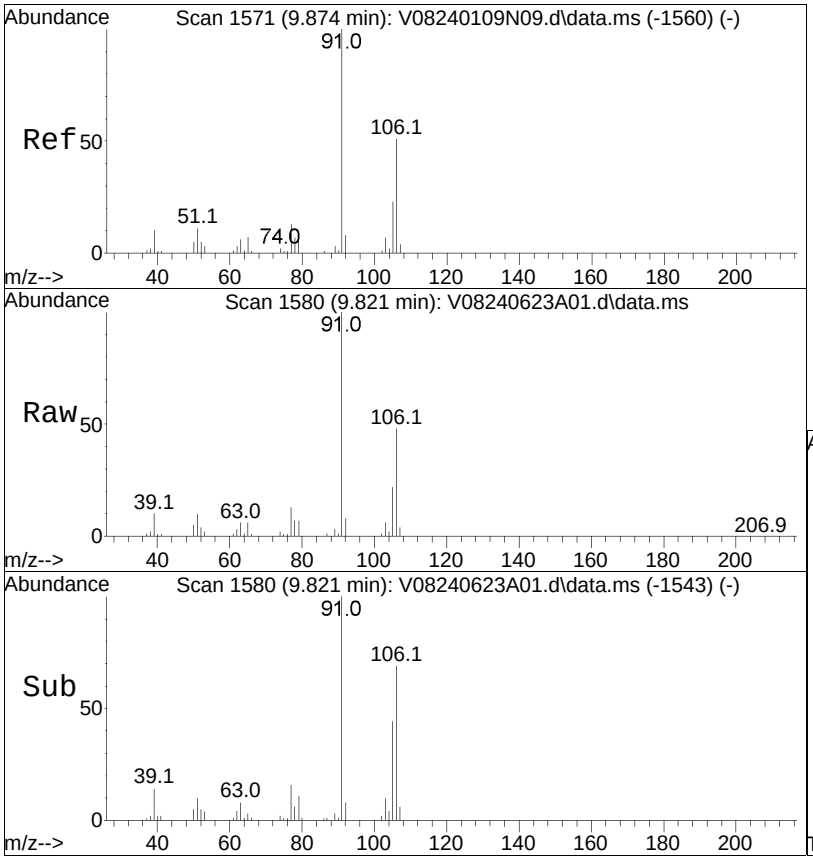


#74
Ethylbenzene
Concen: 9.34 ug/L
RT: 9.632 min Scan# 1544
Delta R.T. -0.005 min
Lab File: V08240623A01.d
Acq: 23 Jun 2024 11:28 am

Tgt Ion: 91 Resp: 350495

Ion	Ratio	Lower	Upper
91	100		
106	31.7	24.3	36.5

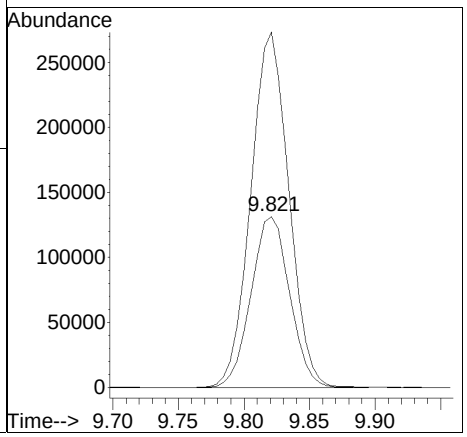


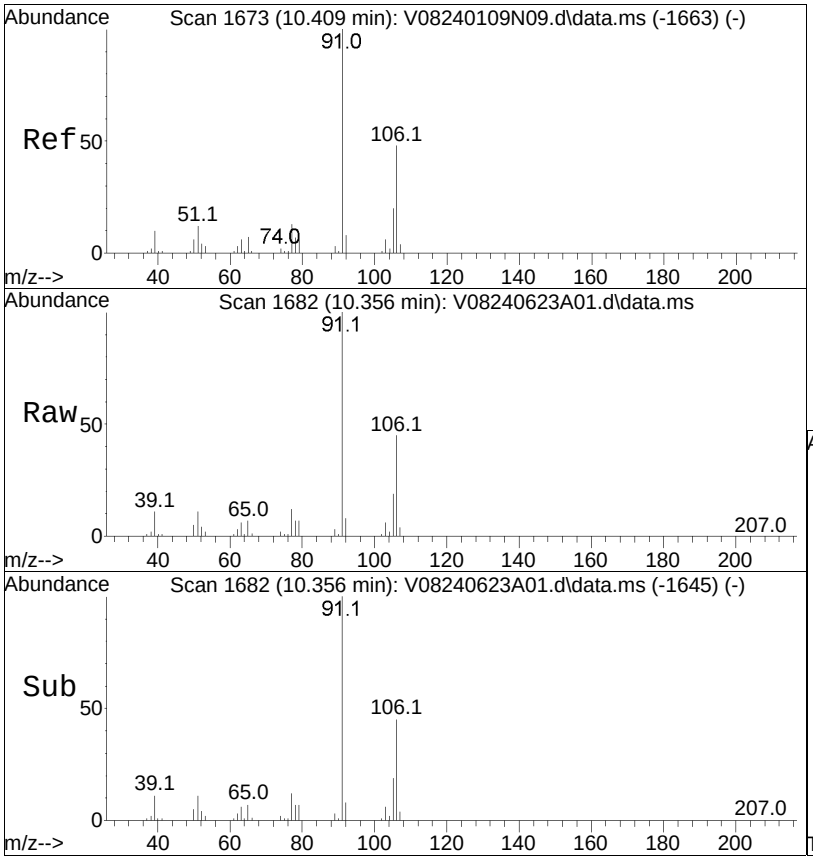


#76
p/m Xylene
Concen: 18.26 ug/L
RT: 9.821 min Scan# 1580
Delta R.T. -0.005 min
Lab File: V08240623A01.d
Acq: 23 Jun 2024 11:28 am

Tgt Ion:106 Resp: 268852

Ion	Ratio	Lower	Upper
106	100		
91	204.9	166.4	249.6

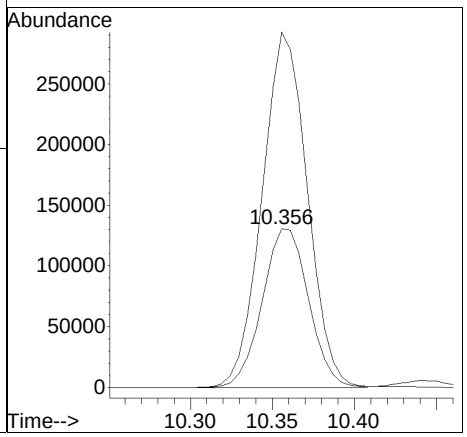


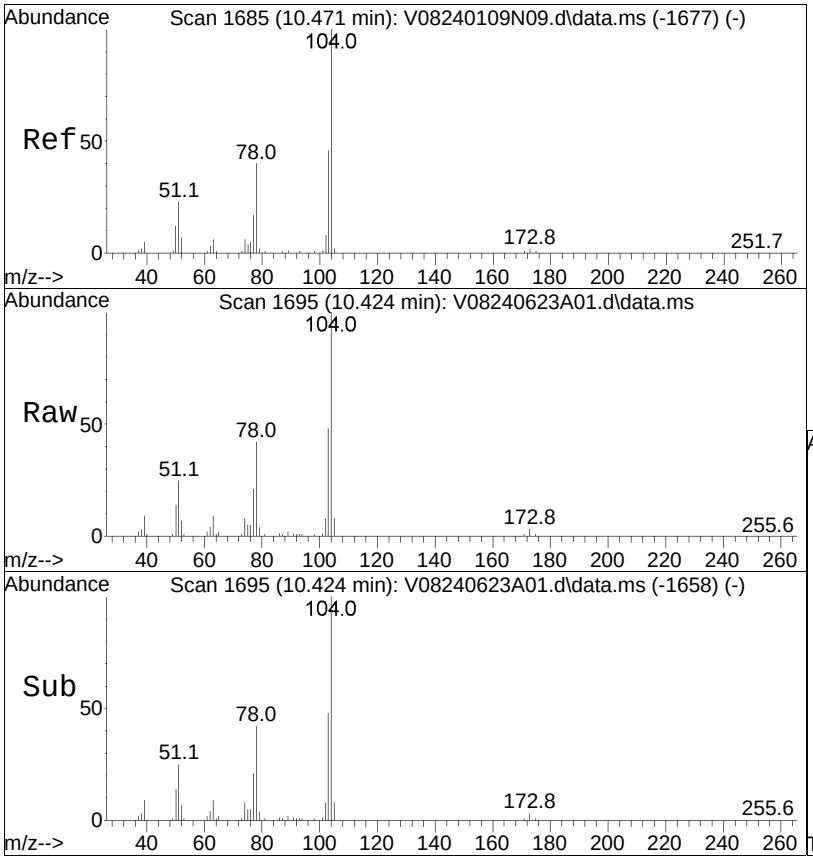


#77
o Xylene
Concen: 17.76 ug/L
RT: 10.356 min Scan# 1682
Delta R.T. -0.005 min
Lab File: V08240623A01.d
Acq: 23 Jun 2024 11:28 am

Tgt Ion:106 Resp: 256376

Ion	Ratio	Lower	Upper
106	100		
91	218.7	182.6	273.8

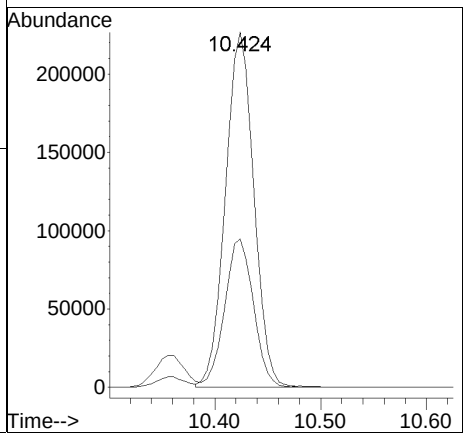


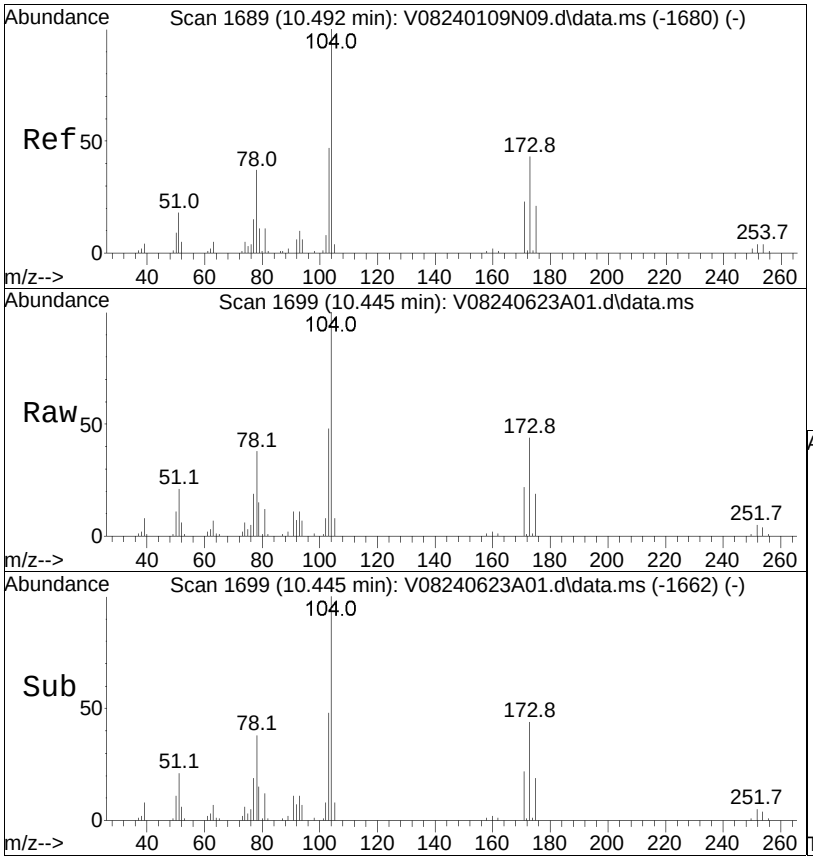


#78
Styrene
Concen: 17.53 ug/L
RT: 10.424 min Scan# 1695
Delta R.T. -0.005 min
Lab File: V08240623A01.d
Acq: 23 Jun 2024 11:28 am

Tgt Ion:104 Resp: 425277

Ion	Ratio	Lower	Upper
104	100		
78	42.1	39.8	59.6

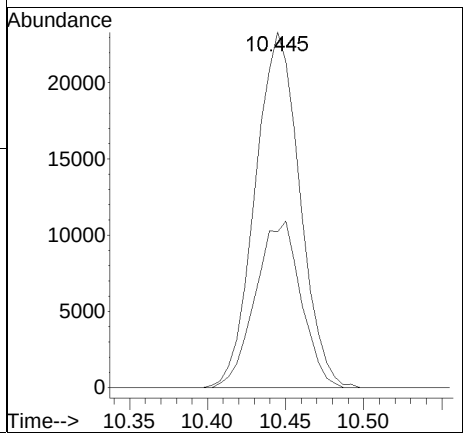


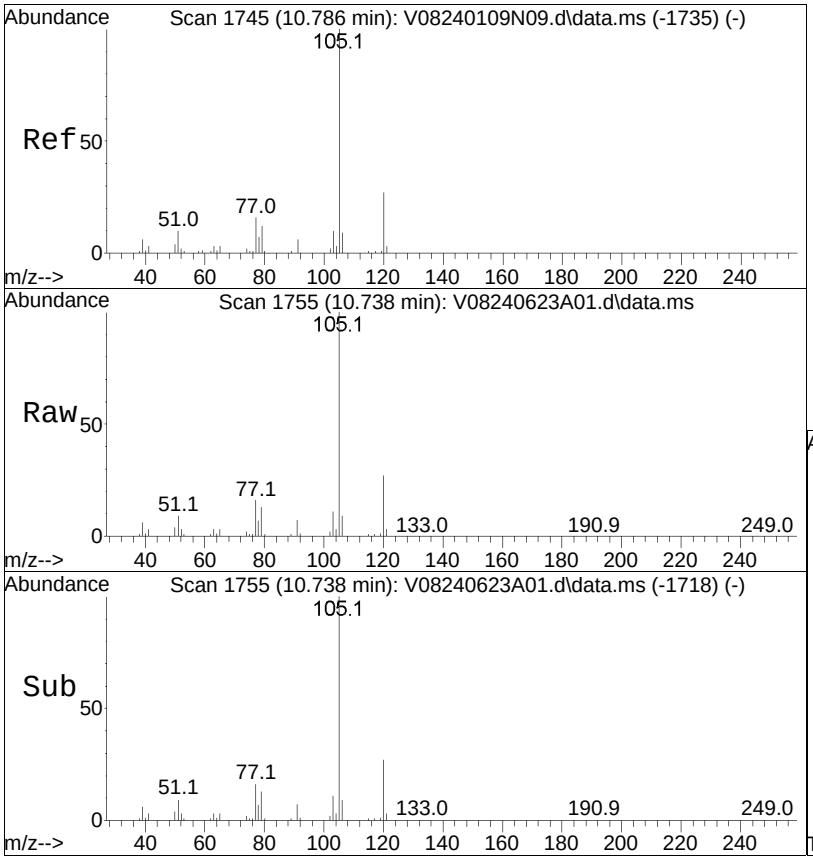


#80
Bromoform
Concen: 9.78 ug/L
RT: 10.445 min Scan# 1699
Delta R.T. -0.005 min
Lab File: V08240623A01.d
Acq: 23 Jun 2024 11:28 am

Tgt Ion:173 Resp: 46405

Ion	Ratio	Lower	Upper
173	100		
175	47.6	31.5	71.5

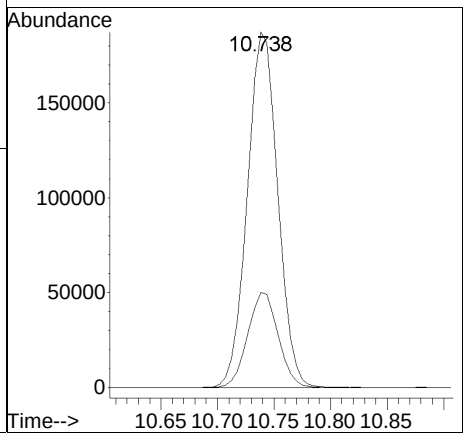


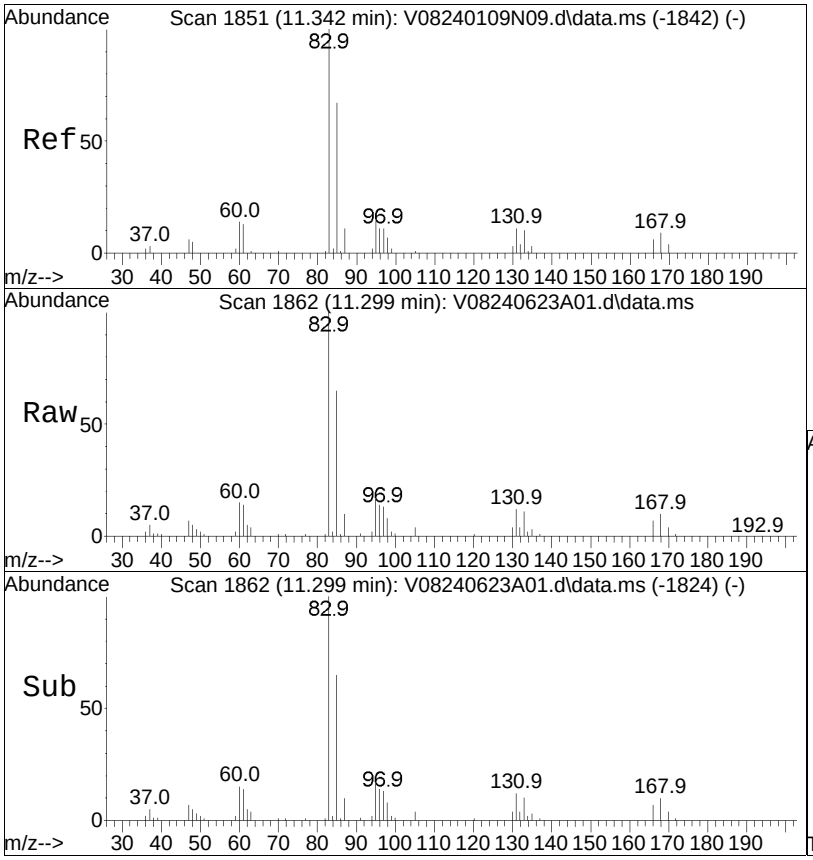


#82
Isopropylbenzene
Concen: 9.93 ug/L
RT: 10.738 min Scan# 1755
Delta R.T. -0.006 min
Lab File: V08240623A01.d
Acq: 23 Jun 2024 11:28 am

Tgt Ion:105 Resp: 350637

Ion	Ratio	Lower	Upper
105	100		
120	26.7	4.8	44.8

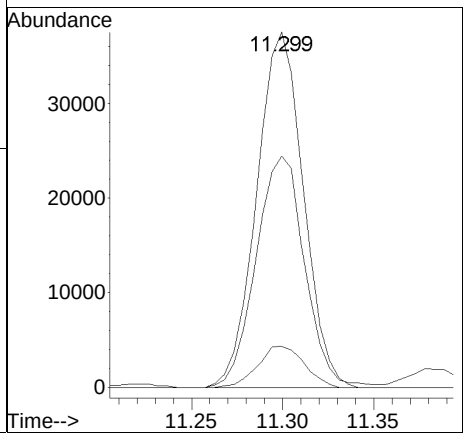


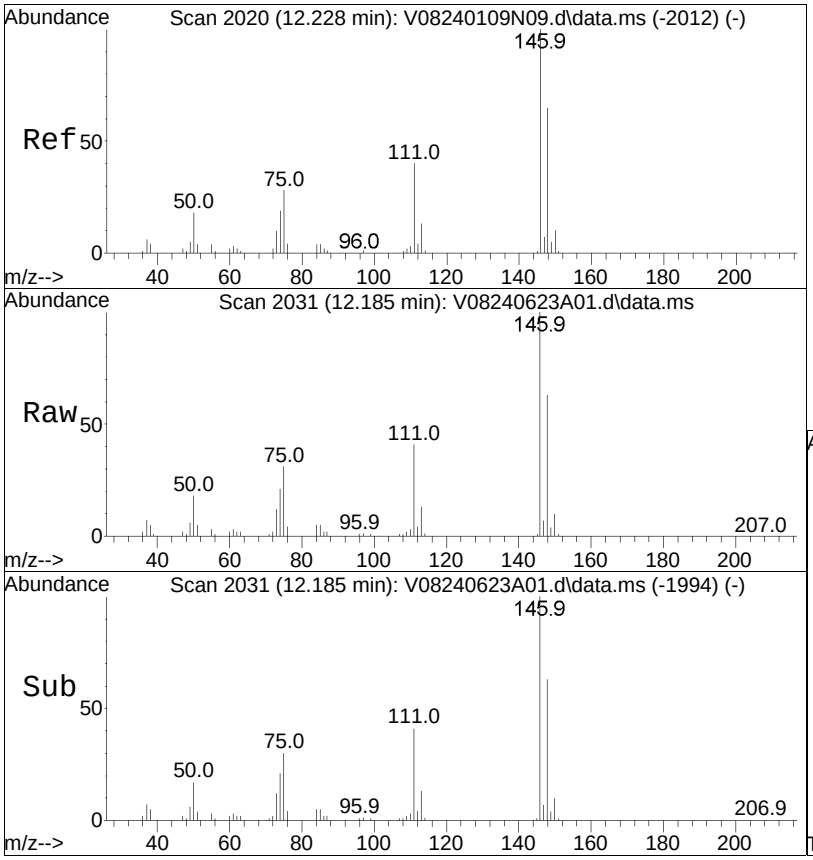


#87
1,1,2,2-Tetrachloroethane
Concen: 9.38 ug/L
RT: 11.299 min Scan# 1862
Delta R.T. 0.000 min
Lab File: V08240623A01.d
Acq: 23 Jun 2024 11:28 am

Tgt Ion: 83 Resp: 66886

Ion	Ratio	Lower	Upper
83	100		
131	11.6	0.0	30.4
85	67.8	45.4	85.4

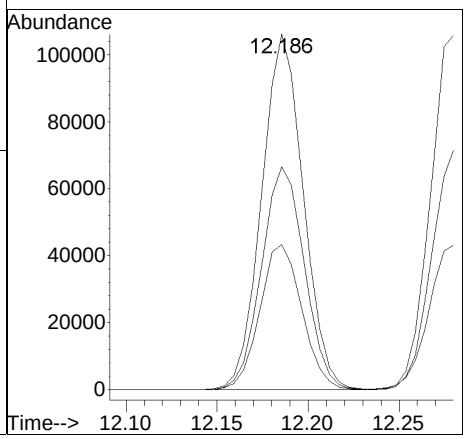


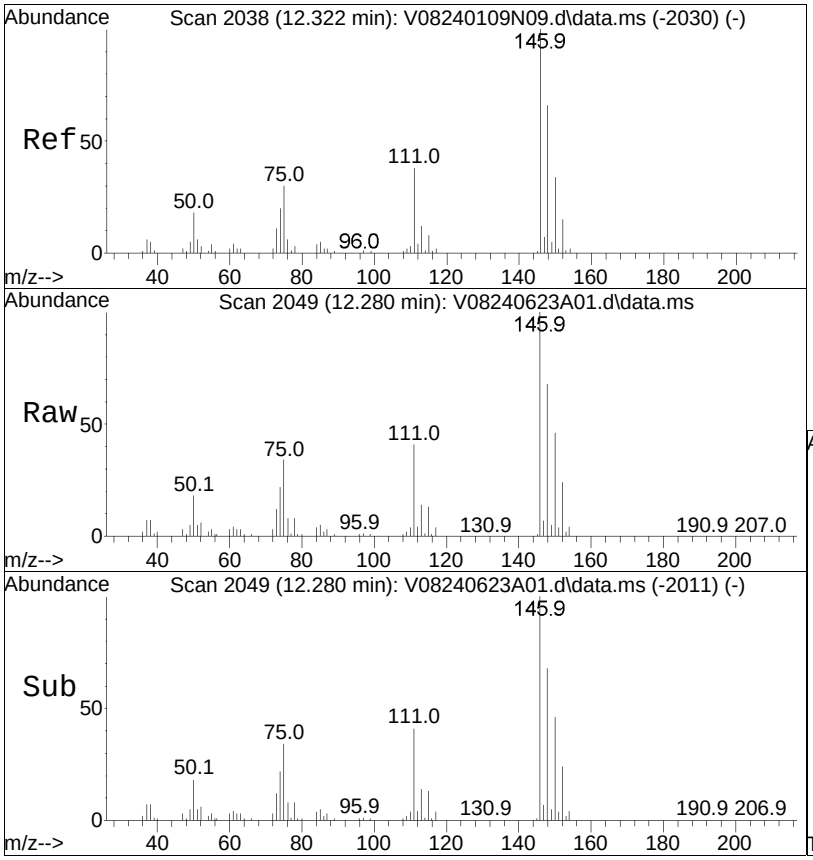


#100
1,3-Dichlorobenzene
Concen: 9.84 ug/L
RT: 12.185 min Scan# 2031
Delta R.T. -0.006 min
Lab File: V08240623A01.d
Acq: 23 Jun 2024 11:28 am

Tgt Ion:146 Resp: 168721

Ion	Ratio	Lower	Upper
146	100		
111	41.1	27.5	57.1
148	64.5	41.9	86.9

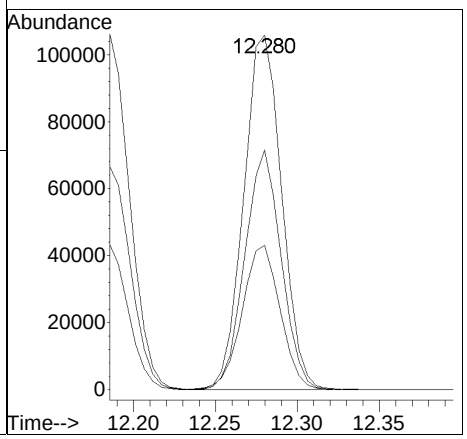


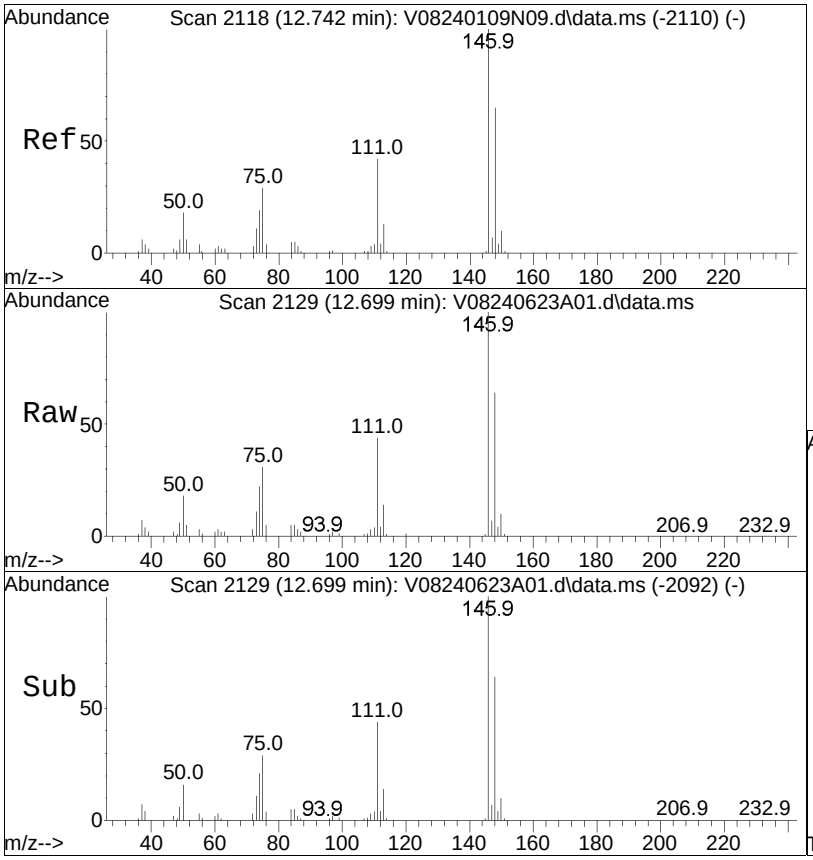


#101
1,4-Dichlorobenzene
Concen: 9.86 ug/L
RT: 12.280 min Scan# 2049
Delta R.T. -0.000 min
Lab File: V08240623A01.d
Acq: 23 Jun 2024 11:28 am

Tgt Ion:146 Resp: 170407

Ion	Ratio	Lower	Upper
146	100		
111	40.7	32.3	48.5
148	64.8	49.9	74.9

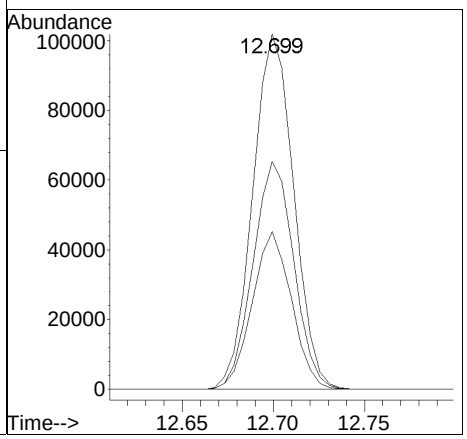


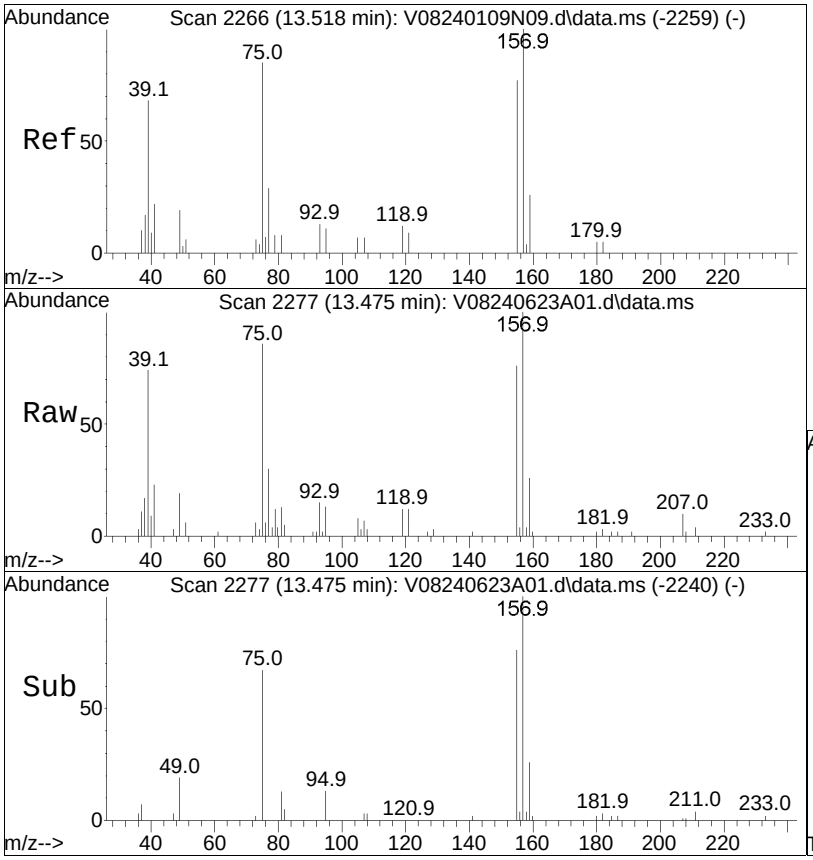


#104
1,2-Dichlorobenzene
Concen: 9.87 ug/L
RT: 12.699 min Scan# 2129
Delta R.T. -0.005 min
Lab File: V08240623A01.d
Acq: 23 Jun 2024 11:28 am

Tgt Ion:146 Resp: 159608

Ion	Ratio	Lower	Upper
146	100		
111	42.6	28.3	58.7
148	63.9	42.3	87.8

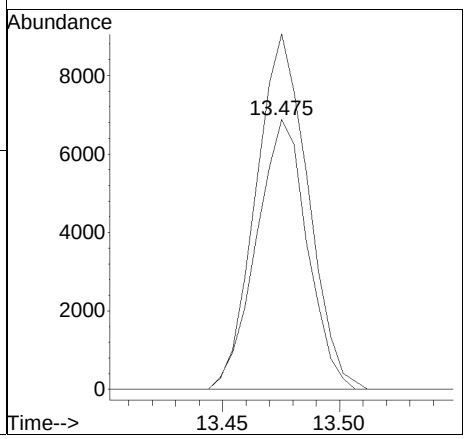


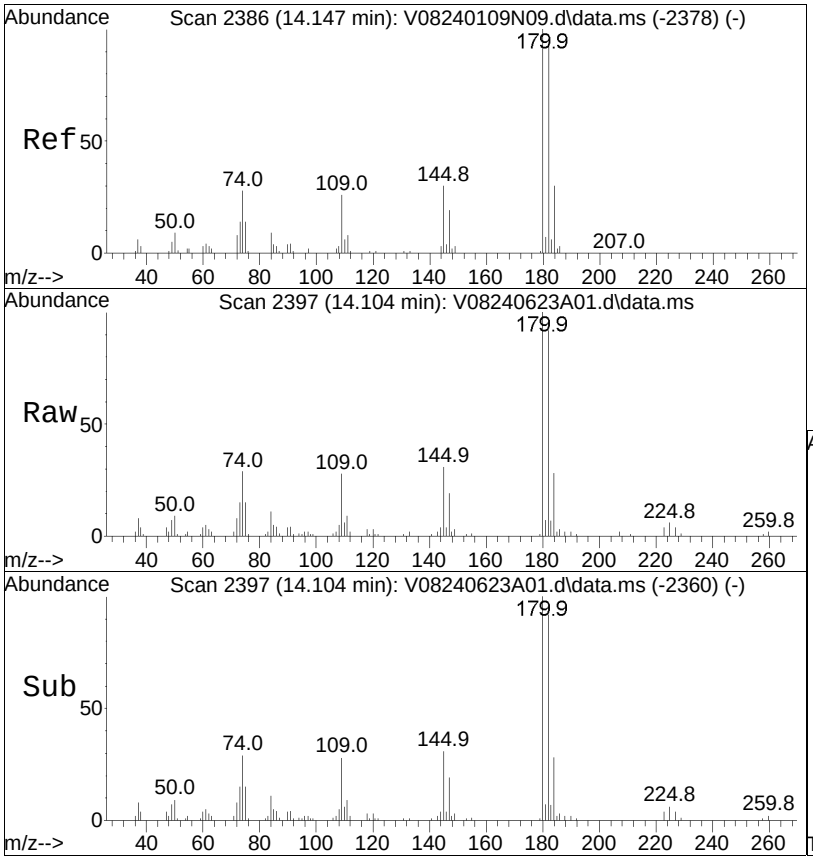


#106
1,2-Dibromo-3-chloropropane
Concen: 9.55 ug/L
RT: 13.475 min Scan# 2277
Delta R.T. -0.005 min
Lab File: V08240623A01.d
Acq: 23 Jun 2024 11:28 am

Tgt Ion:155 Resp: 10411

Ion	Ratio	Lower	Upper
155	100		
157	134.4	94.8	142.2

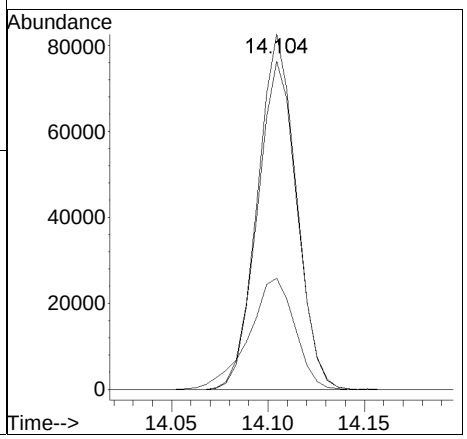


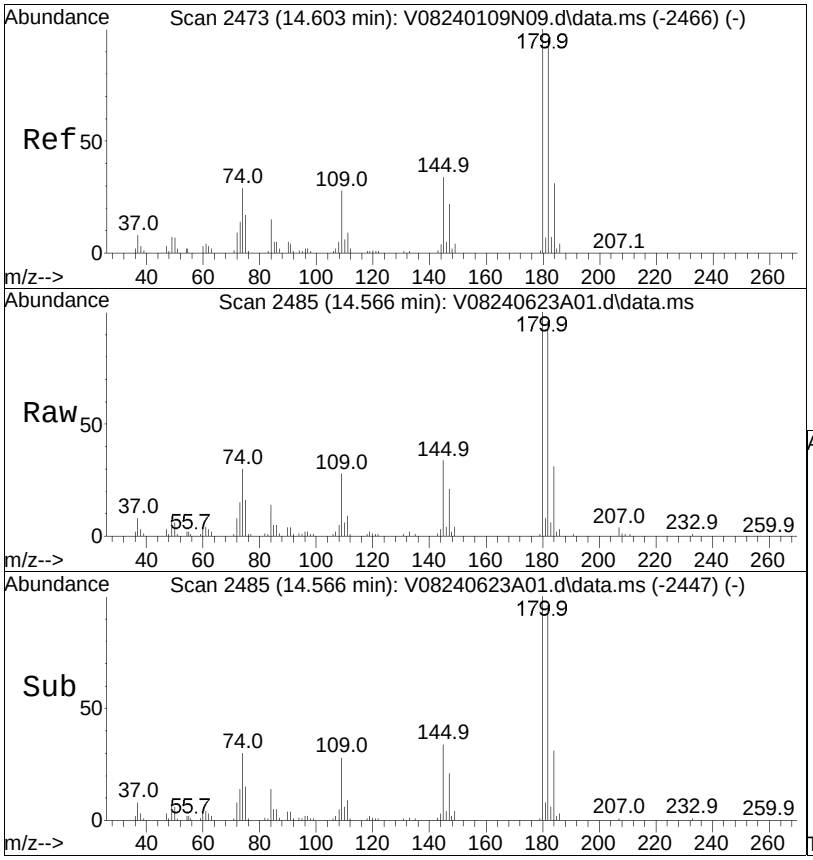


#109
1,2,4-Trichlorobenzene
Concen: 9.93 ug/L
RT: 14.104 min Scan# 2397
Delta R.T. -0.006 min
Lab File: V08240623A01.d
Acq: 23 Jun 2024 11:28 am

Tgt Ion:180 Resp: 115727

Ion	Ratio	Lower	Upper
180	100		
182	94.4	77.3	115.9
145	37.0	28.1	42.1

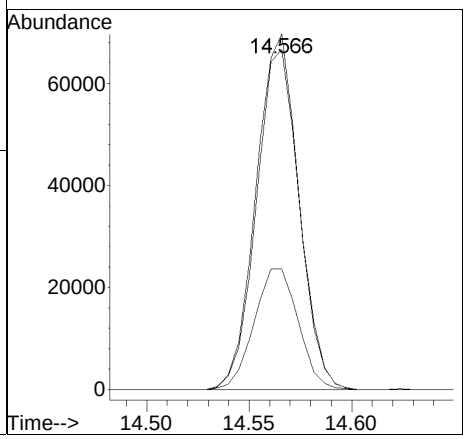




#111
1,2,3-Trichlorobenzene
Concen: 9.63 ug/L
RT: 14.566 min Scan# 2485
Delta R.T. -0.000 min
Lab File: V08240623A01.d
Acq: 23 Jun 2024 11:28 am

Tgt Ion:180 Resp: 101010

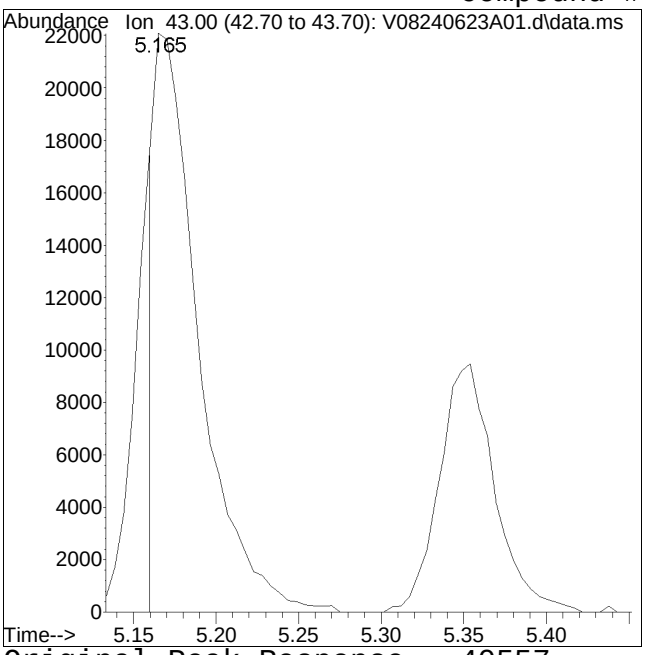
Ion	Ratio	Lower	Upper
180	100		
182	95.4	76.4	114.6
145	35.0	26.4	39.6

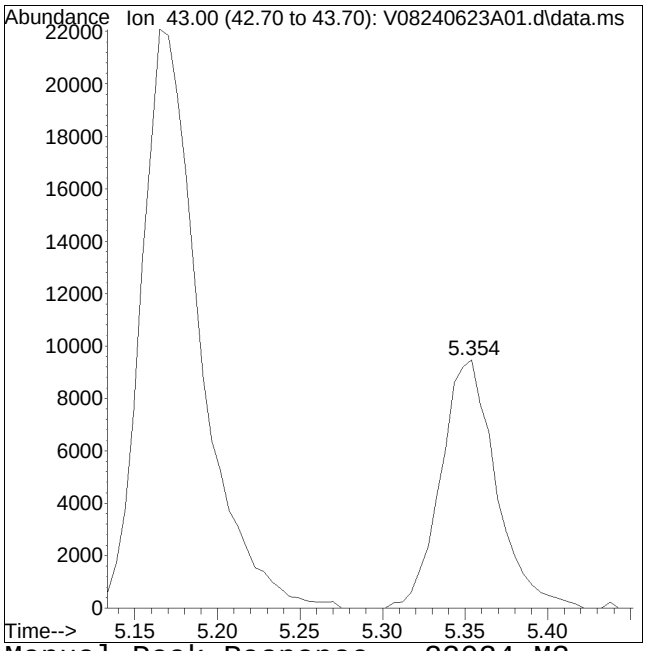


Manual Integration Report

Data Path	: K:\VOA108\2024\240623A\	QMethod	: V108_240514N_8260.m
Data File	: V08240623A01.d	Operator	: VOA108:PID
Date Inj'd	: 6/23/2024 11:28 am	Instrument	: VOA 108
Sample	: WG1938519-3,31,10,10	Quant Date	: 6/23/2024 12:04 pm

Compound #39: 2-Butanone





Original Peak Response = 40557 Manual Peak Response = 22034 M3

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

Quantitation Report (QT Reviewed)

Data Path : K:\Gonzo\2024\240624A\
Data File : VG240624A02.D
Acq On : 24 Jun 2024 8:25 am
Operator : GONZO:PID
Sample : WG1938990-4,31,10,10 (Sig #1); 8260 CCAL (Sig #2)
Misc : WG1938990,ICAL21111 (Sig #1); WG,ICAL21111 (Sig #2)
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 24 08:47:20 2024
Quant Method : K:\Gonzo\2024\240624A\G_240509A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Fri May 10 11:02:54 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\Gonzo\2024\240624A\VG240624A01.D
Sub List : 8260-Curve-IM-2CEVE - Megamix plus Diox-Iodomethane

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	6.094	96	563285	10.000	ug/L	0.00
Standard Area 1 = 645622			Recovery = 87.25%			
59) Chlorobenzene-d5	9.637	117	424595	10.000	ug/L	0.00
Standard Area 1 = 484370			Recovery = 87.66%			
79) 1,4-Dichlorobenzene-d4	12.319	152	223149	10.000	ug/L	0.00
Standard Area 1 = 249984			Recovery = 89.27%			
System Monitoring Compounds						
36) Dibromofluoromethane	5.289	113	131289	9.101	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 91.01%			
43) 1,2-Dichloroethane-d4	5.813	65	166556	9.623	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 96.23%			
60) Toluene-d8	7.786	98	541717	10.369	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 103.69%			
83) 4-Bromofluorobenzene	11.118	95	208613	11.625	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 116.25%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.680	85	140716	9.839	ug/L	99
3) Chloromethane	1.893	50	126010	8.943	ug/L	98
4) Vinyl chloride	1.953	62	110614	7.790	ug/L	99
5) Bromomethane	2.265	94	27577	2.117	ug/L	97
6) Chloroethane	2.364	64	50236	5.118	ug/L	99
7) Trichlorofluoromethane	2.523	101	182087	9.275	ug/L	100
10) 1,1-Dichloroethene	3.025	96	105454	10.596	ug/L	83
11) Carbon disulfide	3.055	76	332490	10.545	ug/L	99
12) Freon-113	3.055	101	114154	10.084	ug/L #	72
15) Methylene chloride	3.587	84	121202	9.999	ug/L	79
17) Acetone	3.632	43	28244	9.054	ug/L	91
18) trans-1,2-Dichloroethene	3.739	96	113373	10.072	ug/L	81
19) Methyl acetate	3.739	43	65479	10.139	ug/L #	93
20) Methyl tert-butyl ether	3.822	73	304858	10.354	ug/L	92
23) 1,1-Dichloroethane	4.324	63	246672	11.017	ug/L	97
28) cis-1,2-Dichloroethene	4.840	96	131045	10.014	ug/L	89
30) Bromochloromethane	5.038	128	57283	9.695	ug/L #	79
31) Cyclohexane	5.030	56	251399	11.218	ug/L	72
32) Chloroform	5.106	83	215071	9.946	ug/L	97
34) Carbon tetrachloride	5.235	117	181076	10.748	ug/L	98

Quantitation Report (QT Reviewed)

Data Path : K:\Gonzo\2024\240624A\
Data File : VG240624A02.D
Acq On : 24 Jun 2024 8:25 am
Operator : GONZO:PID
Sample : WG1938990-4,31,10,10 (Sig #1); 8260 CCAL (Sig #2)
Misc : WG1938990,ICAL21111 (Sig #1); WG,ICAL21111 (Sig #2)
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 24 08:47:20 2024
Quant Method : K:\Gonzo\2024\240624A\G_240509A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Fri May 10 11:02:54 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\Gonzo\2024\240624A\VG240624A01.D
Sub List : 8260-Curve-IM-2CEVE - Megamix plus Diox-Iodomethane

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
37) 1,1,1-Trichloroethane	5.304	97	198908	10.734	ug/L		97
39) 2-Butanone	5.402	43	42300	10.273	ug/L	#	80
41) Benzene	5.676	78	513779	10.784	ug/L		94
44) 1,2-Dichloroethane	5.889	62	171059	9.961	ug/L		99
47) Methyl cyclohexane	6.253	83	195503	10.403	ug/L	#	71
48) Trichloroethene	6.276	95	132918	9.282	ug/L		96
51) 1,2-Dichloropropane	6.823	63	140295	11.431	ug/L		95
54) Bromodichloromethane	6.899	83	172128	10.239	ug/L		100
57) 1,4-Dioxane	7.106	88	54671	517.383	ug/L	#	79
58) cis-1,3-Dichloropropene	7.586	75	197824	10.698	ug/L		98
61) Toluene	7.844	92	319003	11.051	ug/L		100
62) 4-Methyl-2-pentanone	8.288	58	39227	12.145	ug/L	#	97
63) Tetrachloroethene	8.295	166	120179	10.682	ug/L		95
65) trans-1,3-Dichloropropene	8.338	75	176254	11.280	ug/L		94
68) 1,1,2-Trichloroethane	8.524	83	86026	10.618	ug/L		97
69) Chlorodibromomethane	8.739	129	125346	10.419	ug/L		99
71) 1,2-Dibromoethane	9.011	107	100478	10.856	ug/L		97
72) 2-Hexanone	9.298	43	65130	12.083	ug/L		99
73) Chlorobenzene	9.662	112	343784	10.545	ug/L		95
74) Ethylbenzene	9.695	91	595672	10.597	ug/L		98
76) p/m Xylene	9.876	106	469735	20.007	ug/L		94
77) o Xylene	10.419	106	448108	19.142	ug/L		93
78) Styrene	10.484	104	747294	20.084	ug/L		92
80) Bromoform	10.517	173	71725	9.853	ug/L		100
82) Isopropylbenzene	10.789	105	570840	10.669	ug/L		98
87) 1,1,2,2-Tetrachloroethane	11.365	83	127681	13.014	ug/L		98
100) 1,3-Dichlorobenzene	12.245	146	266383	10.789	ug/L		96
101) 1,4-Dichlorobenzene	12.335	146	272637	10.679	ug/L		98
104) 1,2-Dichlorobenzene	12.763	146	247161	10.660	ug/L		97
106) 1,2-Dibromo-3-chloropr...	13.536	155	18392	10.461	ug/L		98
109) 1,2,4-Trichlorobenzene	14.162	180	127546	10.493	ug/L		99
111) 1,2,3-Trichlorobenzene	14.622	180	100287	10.034	ug/L		98

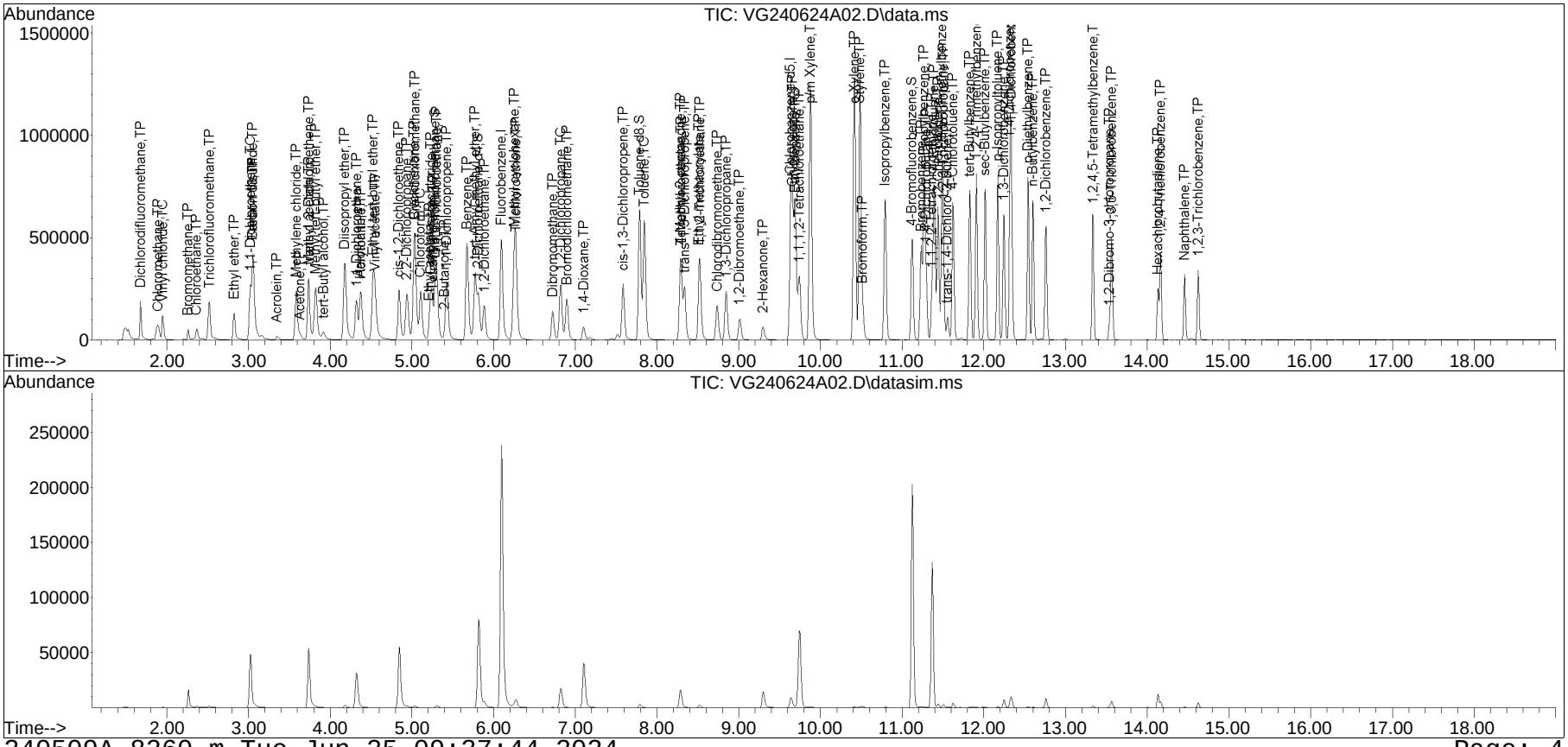
(#) = qualifier out of range (m) = manual integration (+) = signals summed

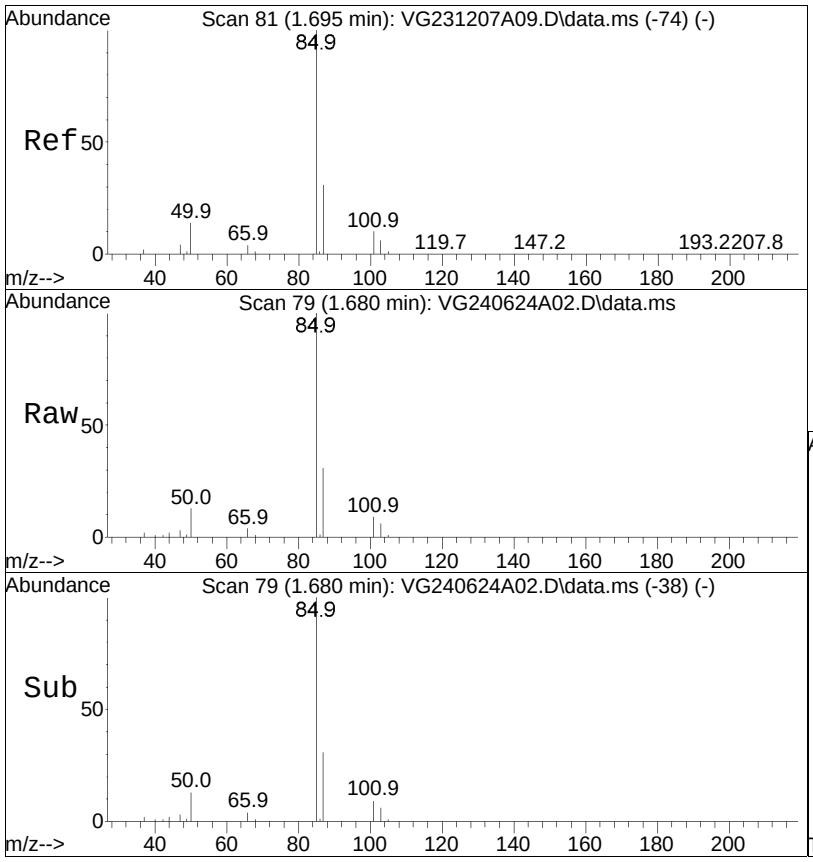
Quantitation Report (QT Reviewed)

Data Path : K:\Gonzo\2024\240624A\
Data File : VG240624A02.D
Acq On : 24 Jun 2024 8:25 am
Operator : GONZO:PID
Sample : WG1938990-4,31,10,10 (Sig #1); 8260 CCAL (Sig #2)
Misc : WG1938990,ICAL21111 (Sig #1); WG,ICAL21111 (Sig #2)
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 24 08:47:20 2024
Quant Method : K:\Gonzo\2024\240624A\G_240509A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Fri May 10 11:02:54 2024
Response via : Initial Calibration

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

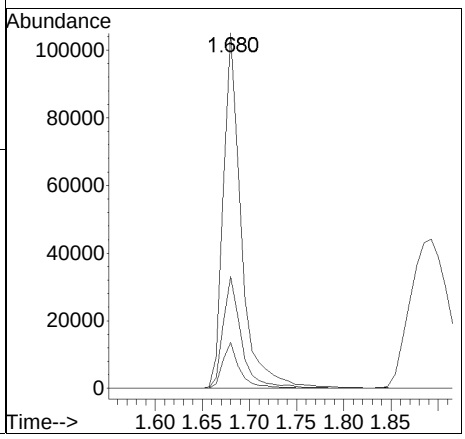


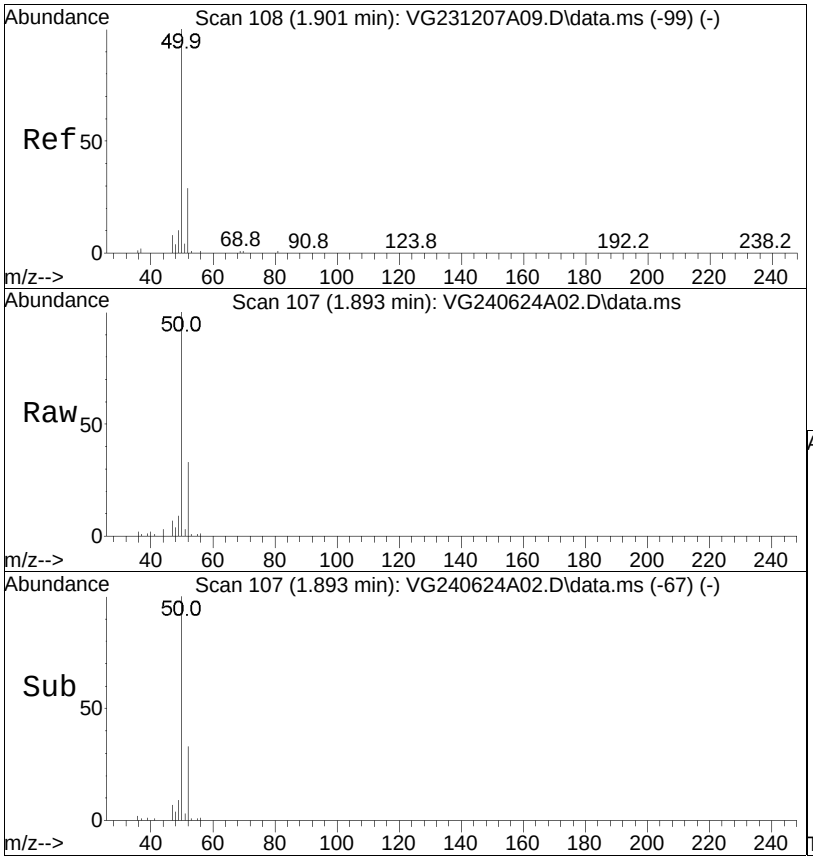


#2
Dichlorodifluoromethane
Concen: 9.84 ug/L
RT: 1.680 min Scan# 79
Delta R.T. 0.008 min
Lab File: VG240624A02.D
Acq: 24 Jun 2024 8:25 am

Tgt Ion: 85 Resp: 140716

Ion	Ratio	Lower	Upper
85	100		
87	32.1	20.7	42.9
50	12.3	7.5	15.5

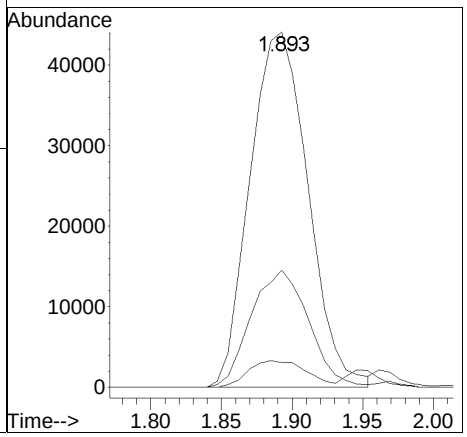


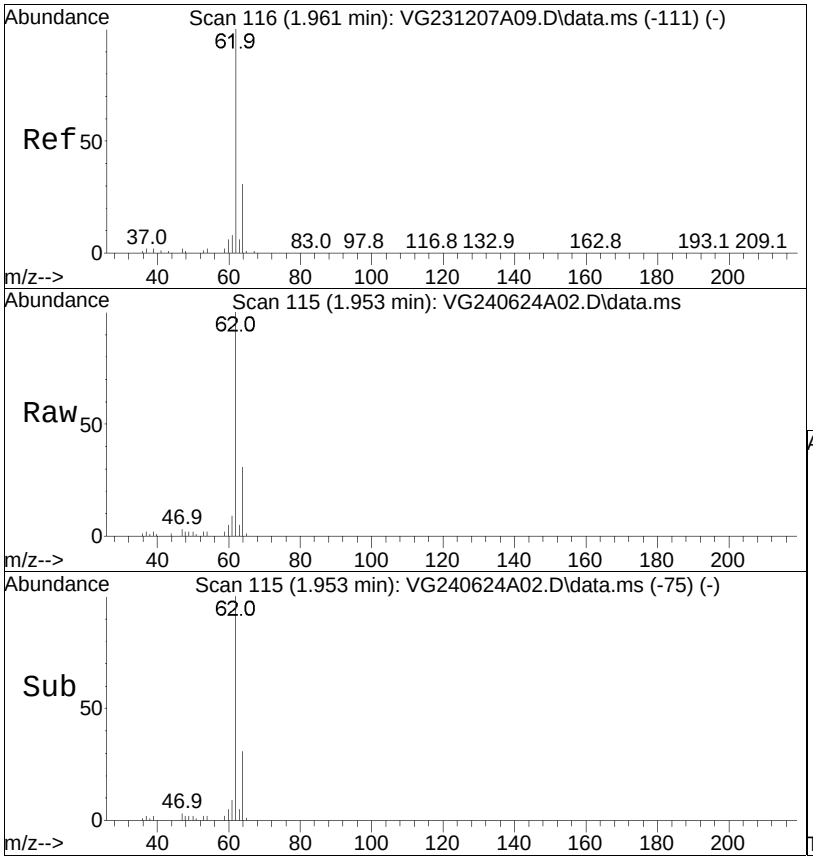


#3
Chloromethane
Concen: 8.94 ug/L
RT: 1.893 min Scan# 107
Delta R.T. 0.008 min
Lab File: VG240624A02.D
Acq: 24 Jun 2024 8:25 am

Tgt Ion: 50 Resp: 126010

Ion	Ratio	Lower	Upper
50	100		
52	32.7	11.7	51.7
47	7.6	0.0	28.0

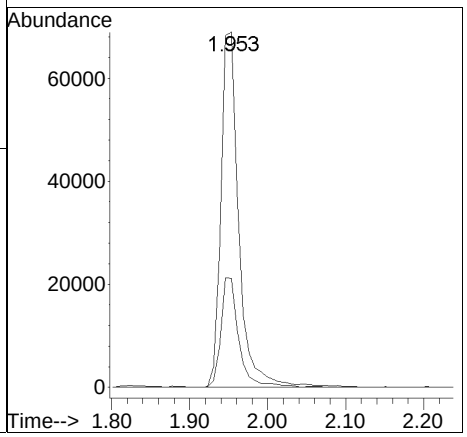


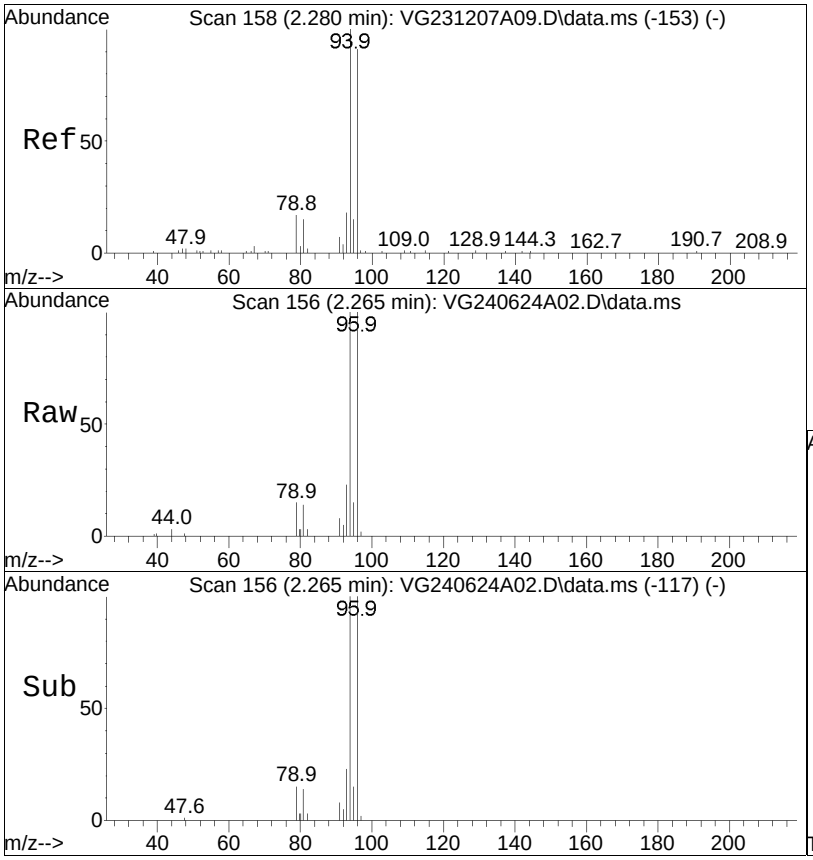


#4
Vinyl chloride
Concen: 7.79 ug/L
RT: 1.953 min Scan# 115
Delta R.T. 0.007 min
Lab File: VG240624A02.D
Acq: 24 Jun 2024 8:25 am

Tgt Ion: 62 Resp: 110614

Ion	Ratio	Lower	Upper
62	100		
64	30.7	11.3	51.3

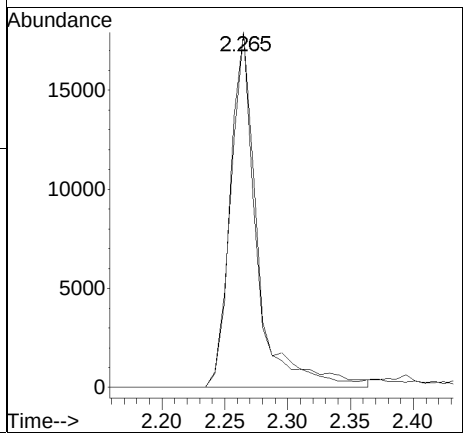


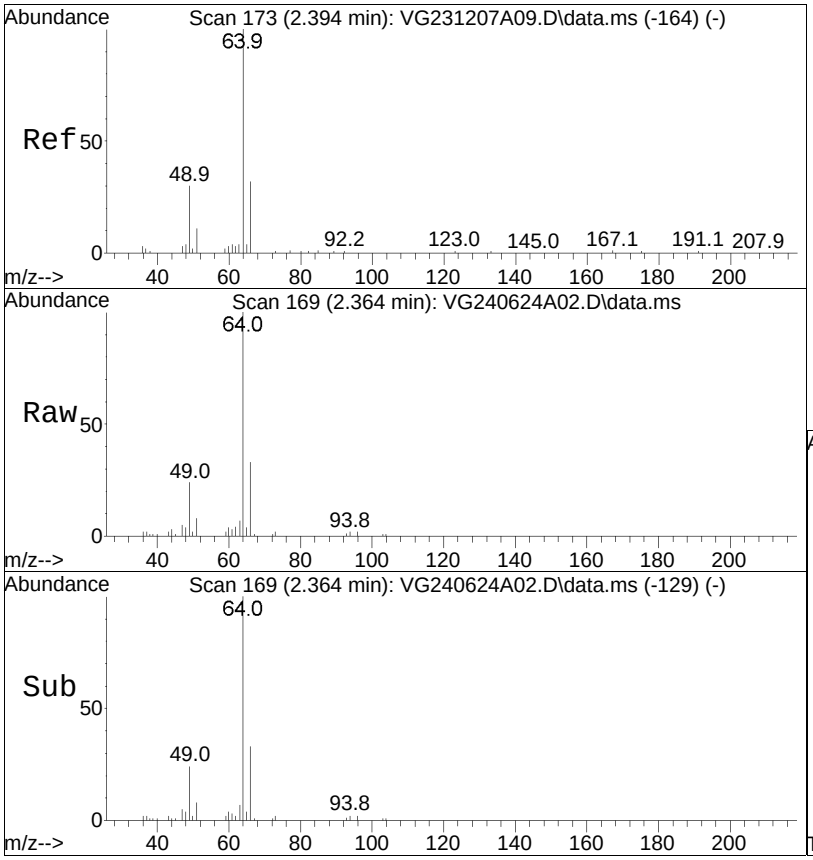


#5
Bromomethane
Concen: 2.12 ug/L
RT: 2.265 min Scan# 156
Delta R.T. -0.000 min
Lab File: VG240624A02.D
Acq: 24 Jun 2024 8:25 am

Tgt Ion: 94 Resp: 27577

Ion	Ratio	Lower	Upper
94	100		
96	92.5	75.2	115.2

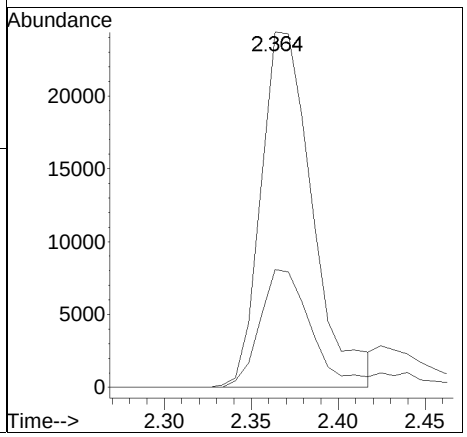


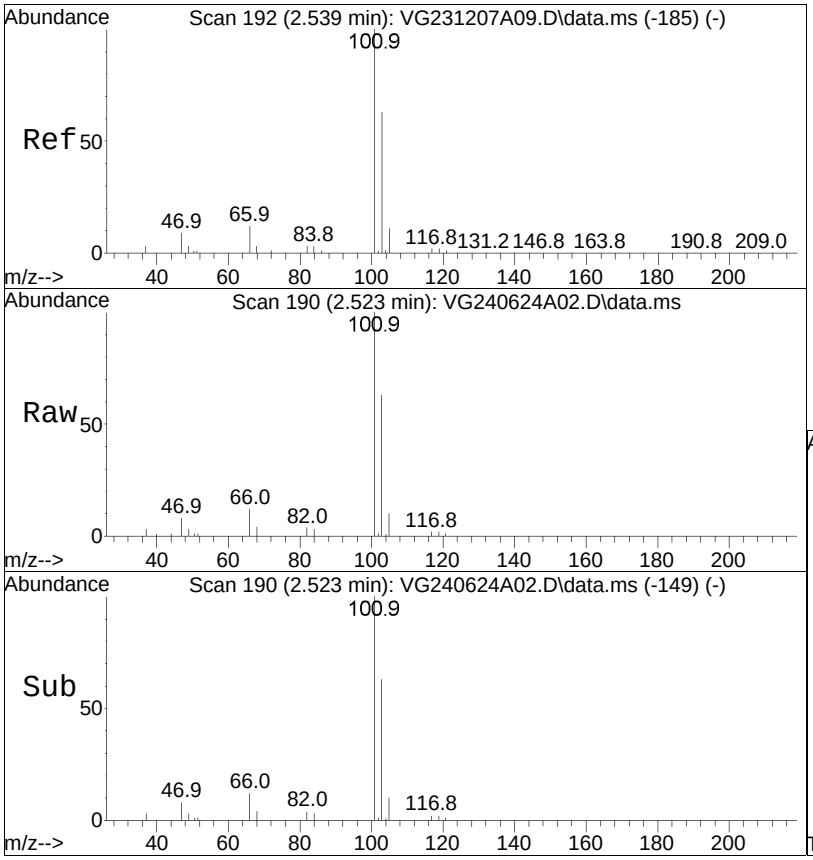


#6
Chloroethane
Concen: 5.12 ug/L
RT: 2.364 min Scan# 169
Delta R.T. 0.001 min
Lab File: VG240624A02.D
Acq: 24 Jun 2024 8:25 am

Tgt Ion: 64 Resp: 50236

Ion	Ratio	Lower	Upper
64	100		
66	33.0	13.7	53.7

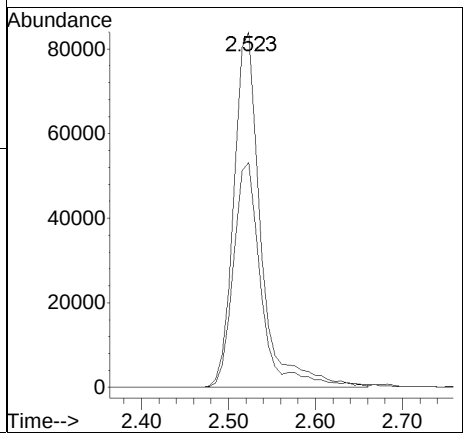


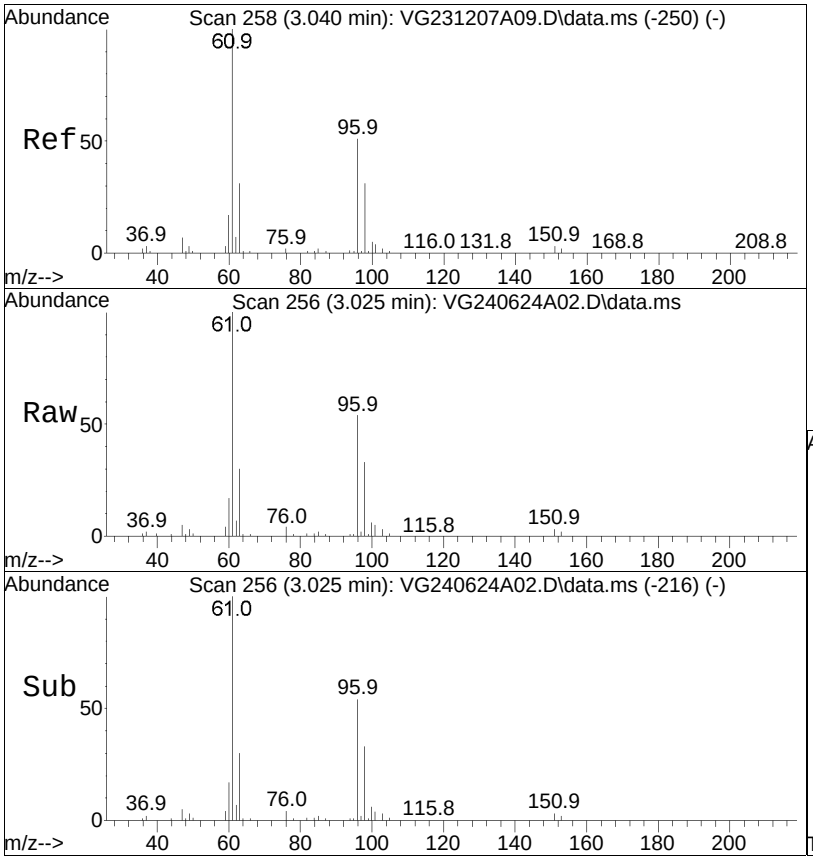


#7
Trichlorofluoromethane
Concen: 9.28 ug/L
RT: 2.523 min Scan# 190
Delta R.T. 0.008 min
Lab File: VG240624A02.D
Acq: 24 Jun 2024 8:25 am

Tgt Ion:101 Resp: 182087

Ion	Ratio	Lower	Upper
101	100		
103	65.5	52.2	78.2

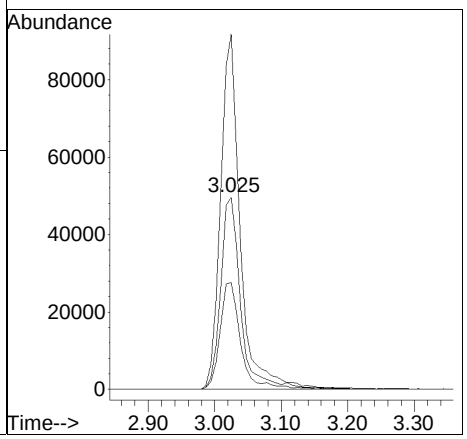


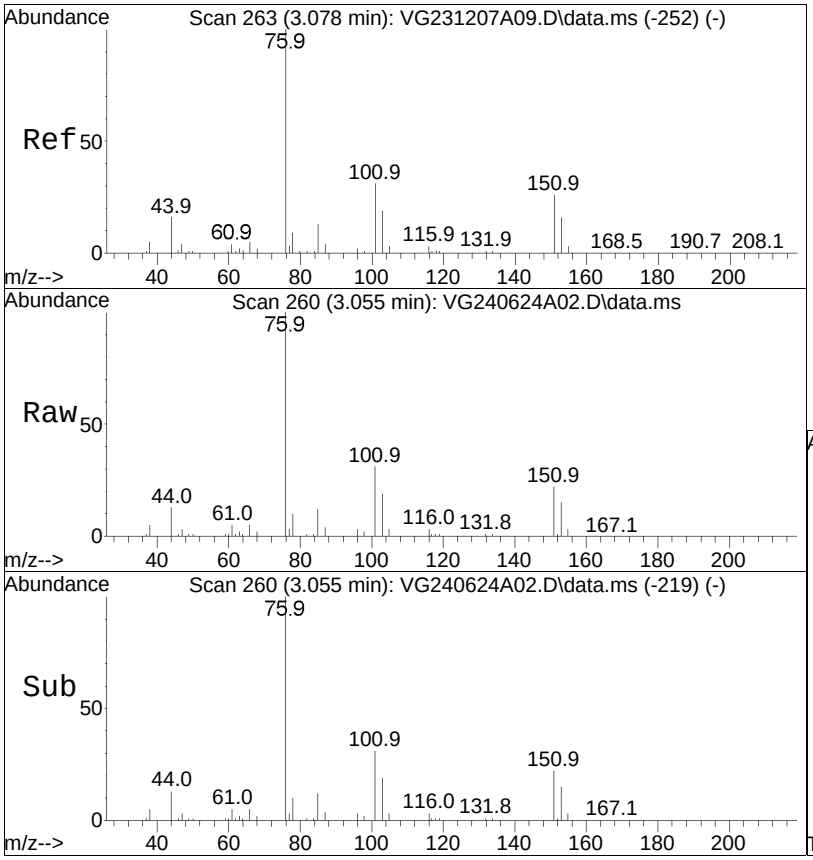


#10
1,1-Dichloroethene
Concen: 10.60 ug/L
RT: 3.025 min Scan# 256
Delta R.T. 0.008 min
Lab File: VG240624A02.D
Acq: 24 Jun 2024 8:25 am

Tgt Ion: 96 Resp: 105454

Ion	Ratio	Lower	Upper
96	100		
61	179.8	124.2	186.4
63	56.9	40.0	60.0

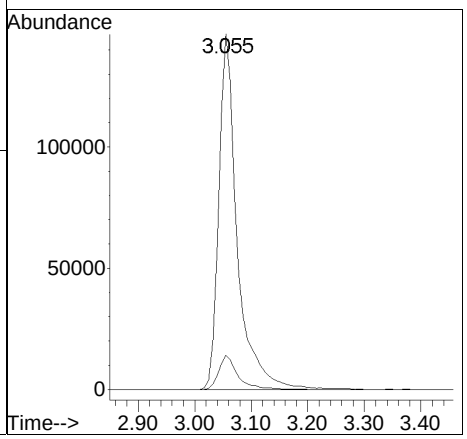


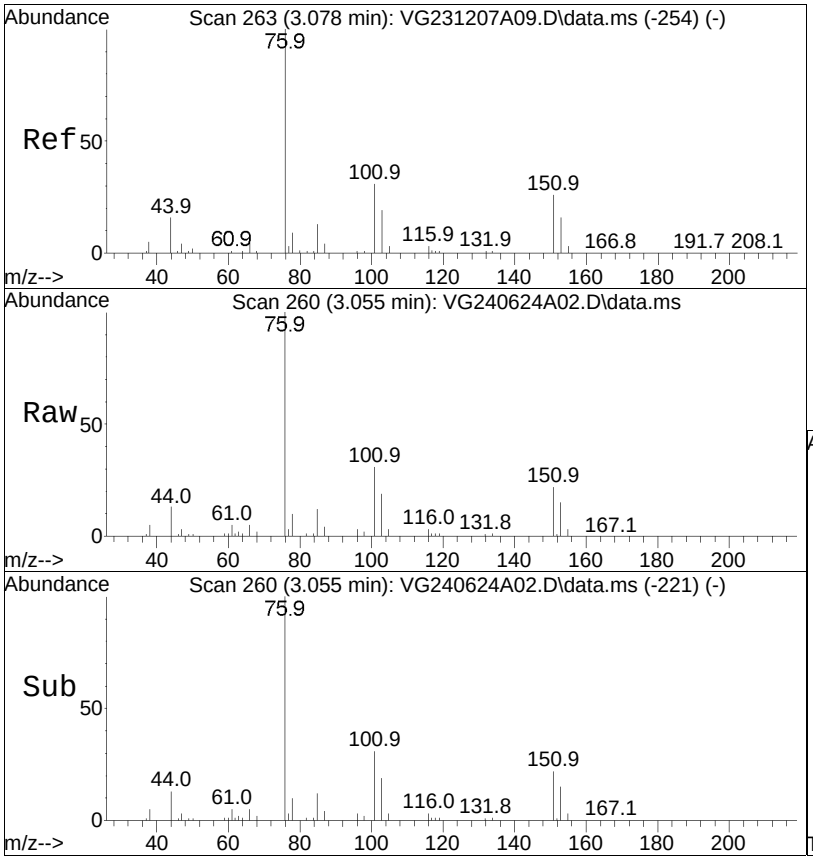


#11
Carbon disulfide
Concen: 10.55 ug/L
RT: 3.055 min Scan# 260
Delta R.T. 0.008 min
Lab File: VG240624A02.D
Acq: 24 Jun 2024 8:25 am

Tgt Ion: 76 Resp: 332490

Ion	Ratio	Lower	Upper
76	100		
78	9.9	6.6	13.6

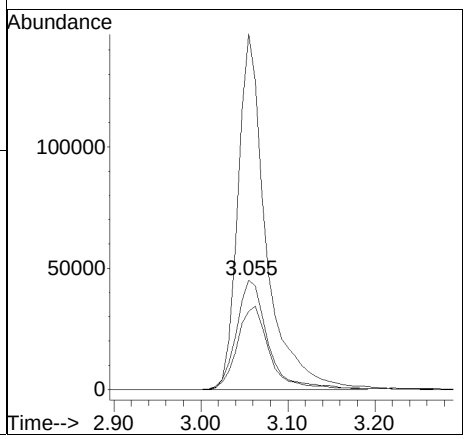


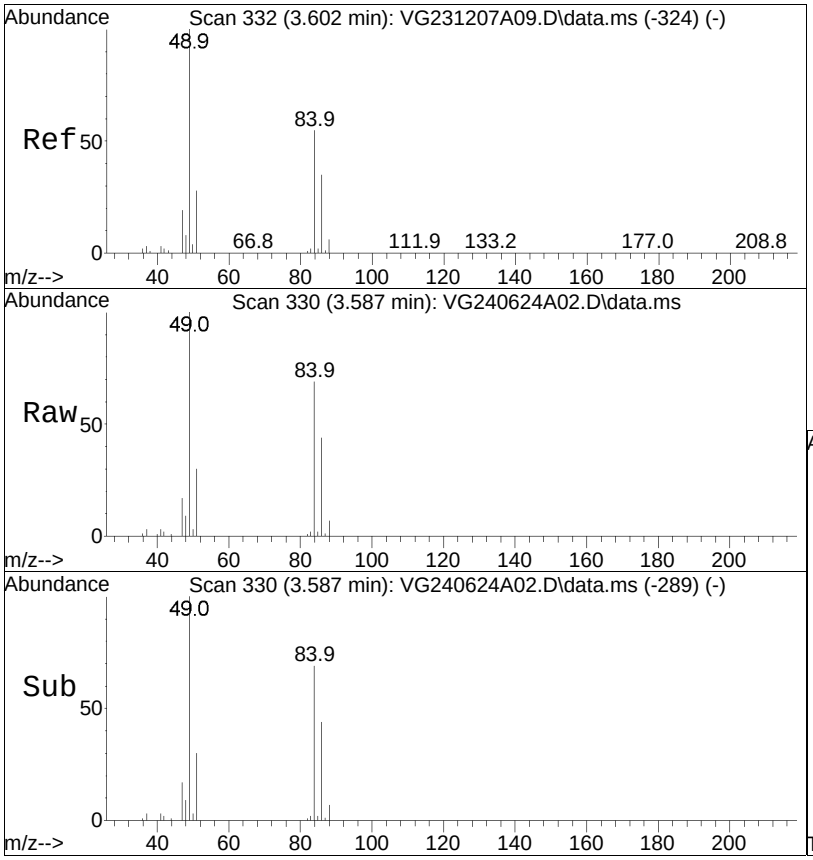


#12
Freon-113
Concen: 10.08 ug/L
RT: 3.055 min Scan# 260
Delta R.T. -0.000 min
Lab File: VG240624A02.D
Acq: 24 Jun 2024 8:25 am

Tgt Ion:101 Resp: 114154

Ion	Ratio	Lower	Upper
101	100		
151	77.7	68.2	102.2
76	291.3	186.0	279.0#

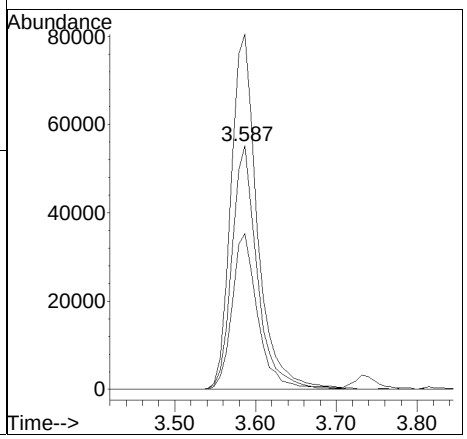


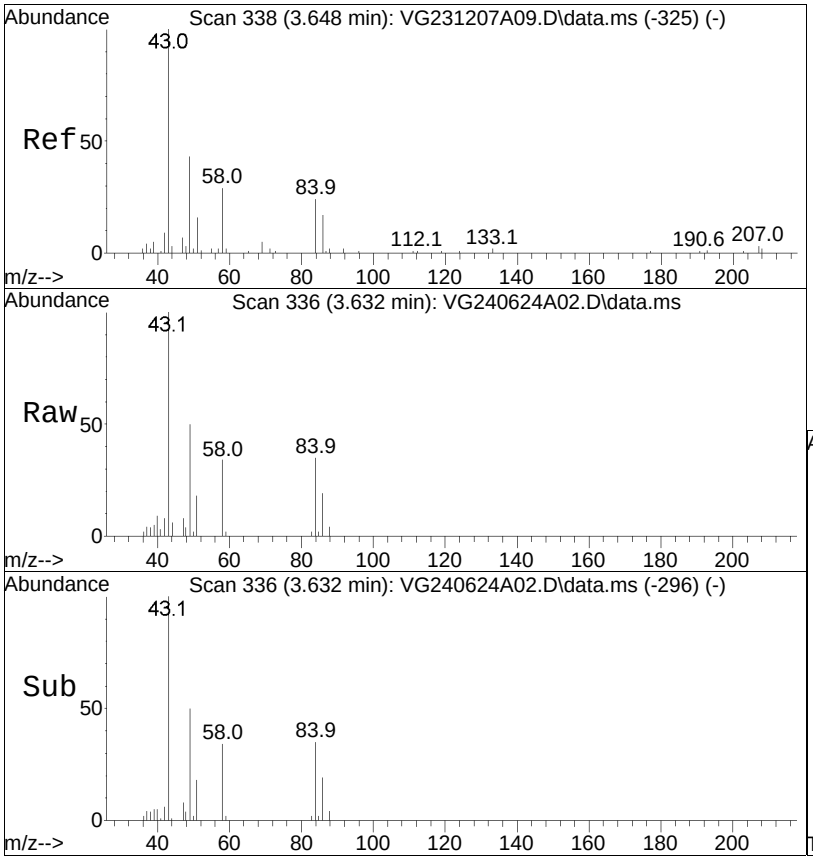


#15
Methylene chloride
Concen: 10.00 ug/L
RT: 3.587 min Scan# 330
Delta R.T. 0.008 min
Lab File: VG240624A02.D
Acq: 24 Jun 2024 8:25 am

Tgt Ion: 84 Resp: 121202

Ion	Ratio	Lower	Upper
84	100		
86	64.6	41.1	85.5
49	151.1	76.2	158.2

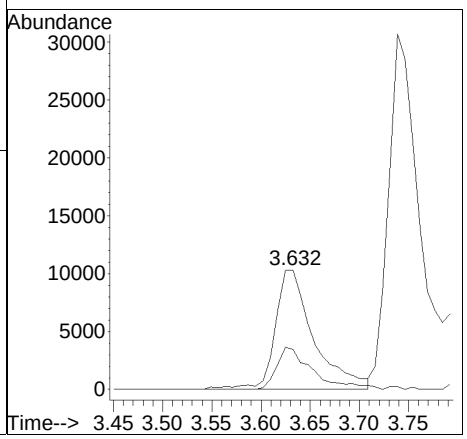


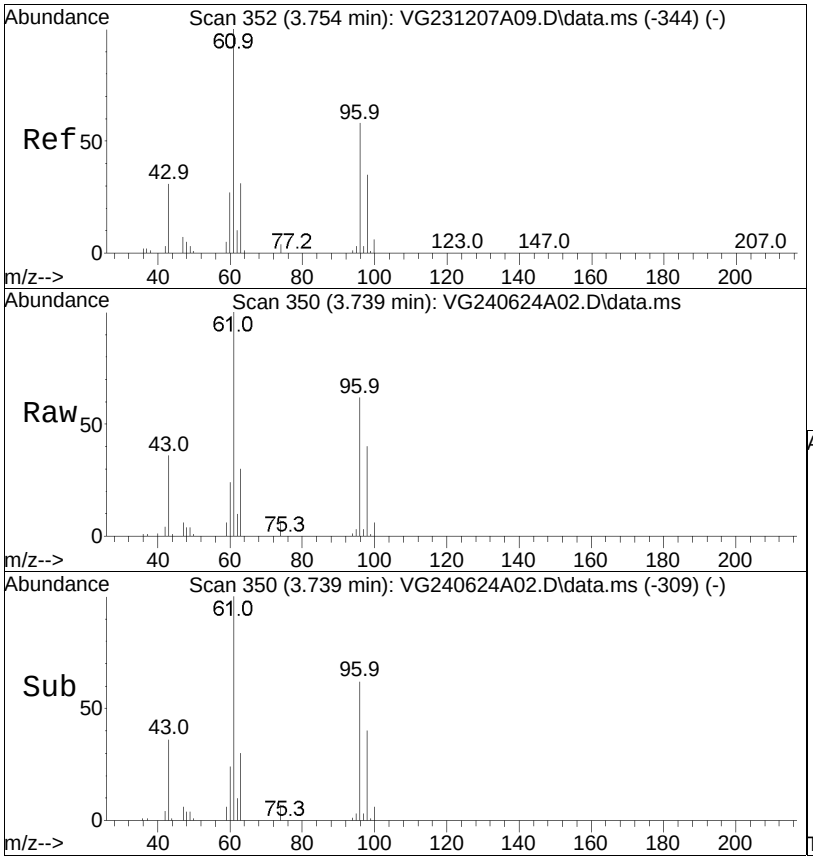


#17
Acetone
Concen: 9.05 ug/L
RT: 3.632 min Scan# 336
Delta R.T. 0.007 min
Lab File: VG240624A02.D
Acq: 24 Jun 2024 8:25 am

Tgt Ion: 43 Resp: 28244

Ion	Ratio	Lower	Upper
43	100		
58	32.7	22.2	33.4

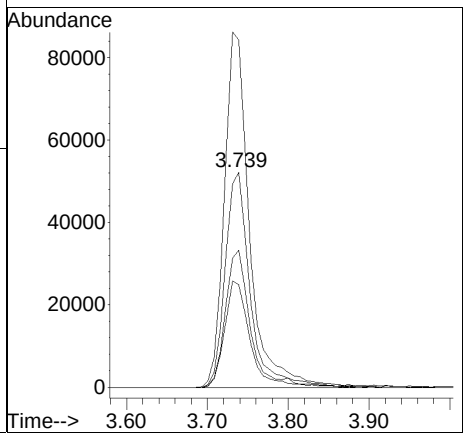


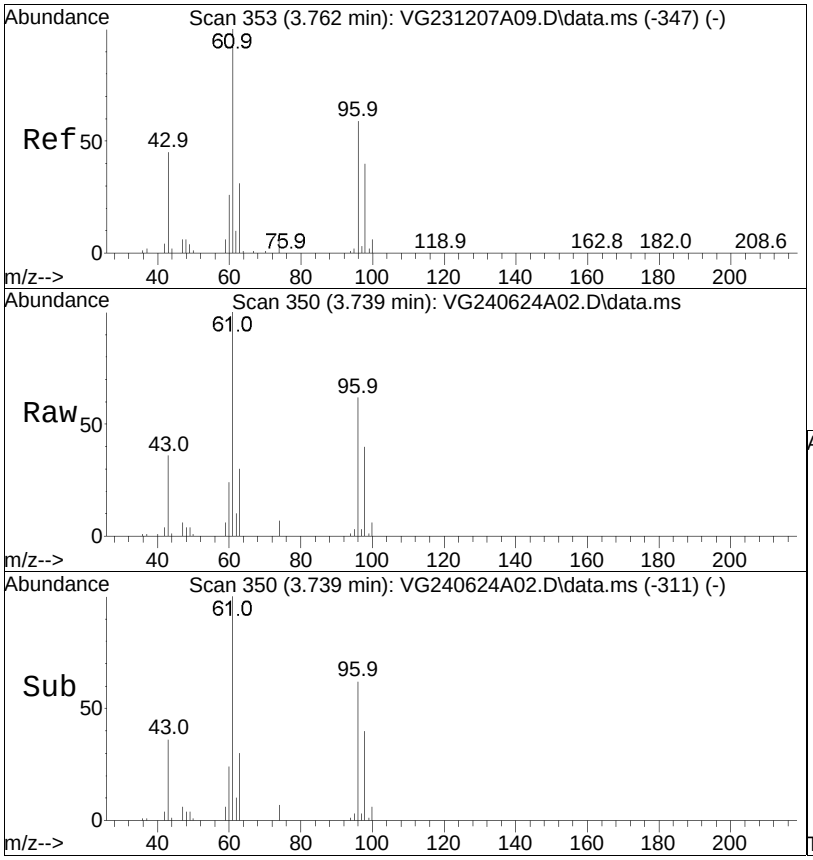


#18
trans-1,2-Dichloroethene
Concen: 10.07 ug/L
RT: 3.739 min Scan# 350
Delta R.T. 0.008 min
Lab File: VG240624A02.D
Acq: 24 Jun 2024 8:25 am

Tgt Ion: 96 Resp: 113373

Ion	Ratio	Lower	Upper
96	100		
61	166.0	85.7	178.1
98	63.8	40.2	83.4
63	50.3	28.0	58.2

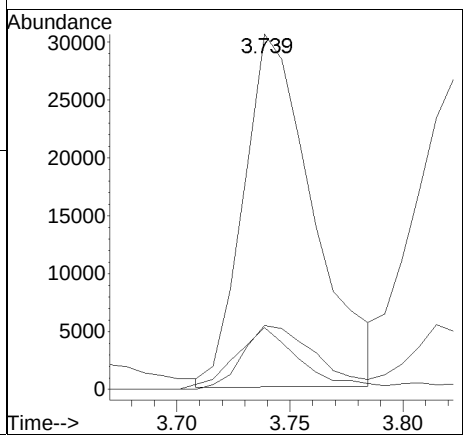


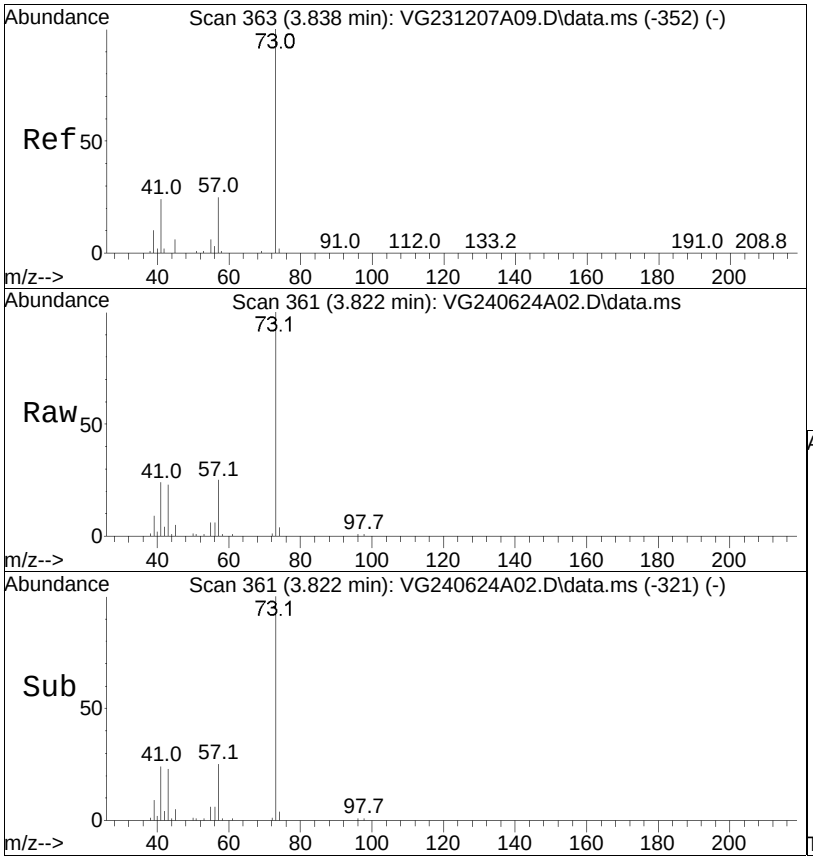


#19
Methyl acetate
Concen: 10.14 ug/L
RT: 3.739 min Scan# 350
Delta R.T. -0.000 min
Lab File: VG240624A02.D
Acq: 24 Jun 2024 8:25 am

Tgt Ion: 43 Resp: 65479

Ion	Ratio	Lower	Upper
43	100		
74	18.9	19.3	28.9#
59	16.4	13.9	20.9

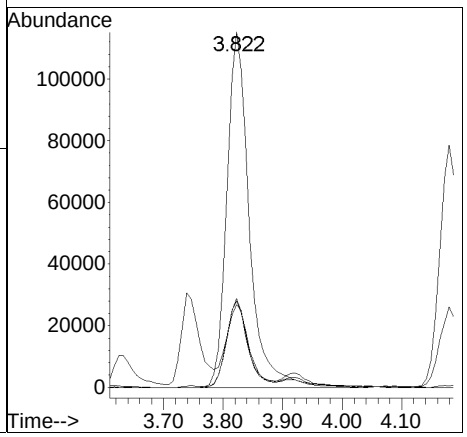


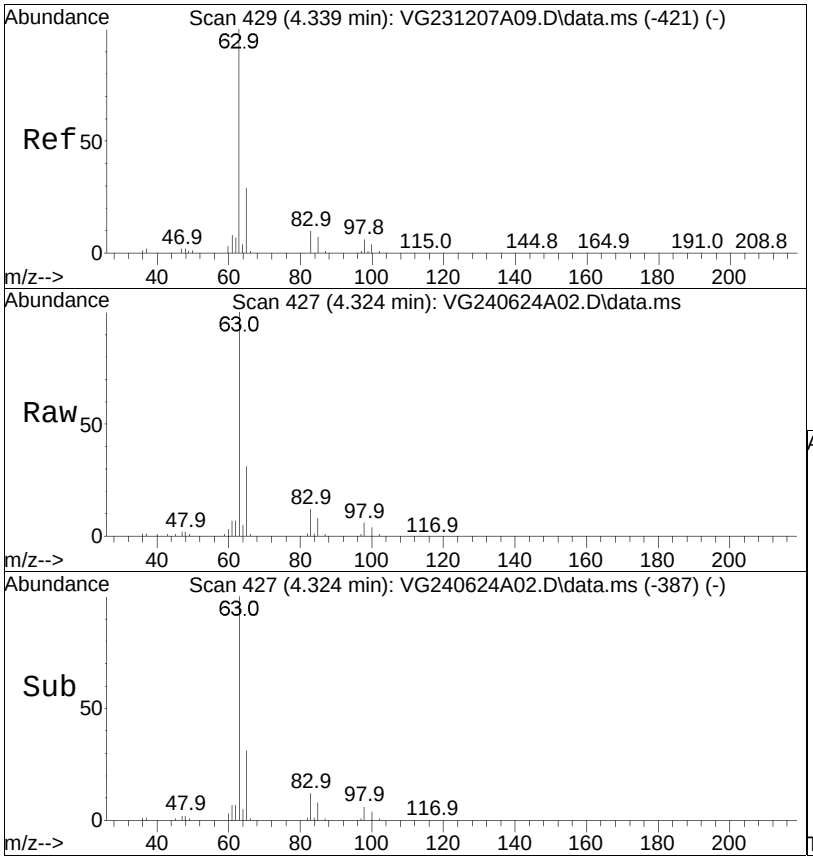


#20
Methyl tert-butyl ether
Concen: 10.35 ug/L
RT: 3.822 min Scan# 361
Delta R.T. 0.000 min
Lab File: VG240624A02.D
Acq: 24 Jun 2024 8:25 am

Tgt Ion: 73 Resp: 304858

Ion	Ratio	Lower	Upper
73	100		
57	24.1	12.5	26.1
43	22.9	13.0	27.0
41	22.6	12.5	26.1

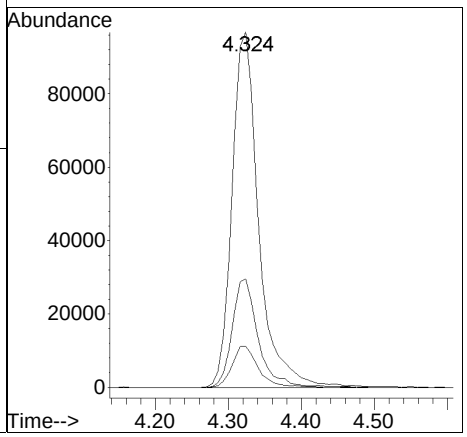


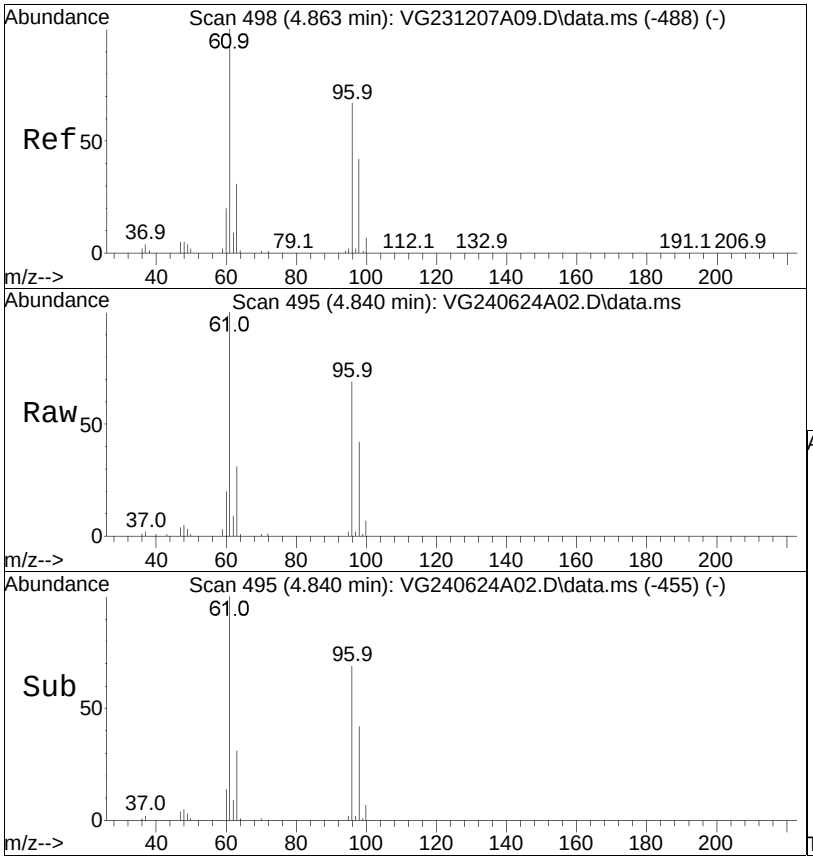


#23
1,1-Dichloroethane
Concen: 11.02 ug/L
RT: 4.324 min Scan# 427
Delta R.T. 0.008 min
Lab File: VG240624A02.D
Acq: 24 Jun 2024 8:25 am

Tgt Ion: 63 Resp: 246672

Ion	Ratio	Lower	Upper
63	100		
65	29.4	10.4	50.4
83	11.5	0.0	33.2

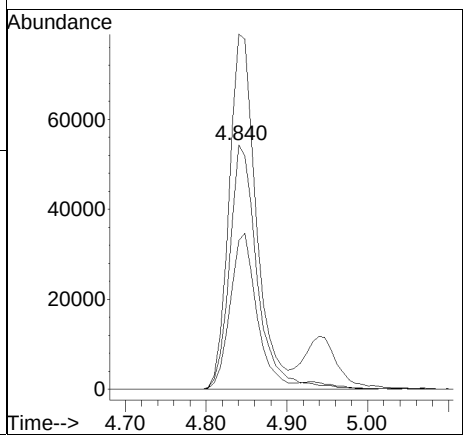


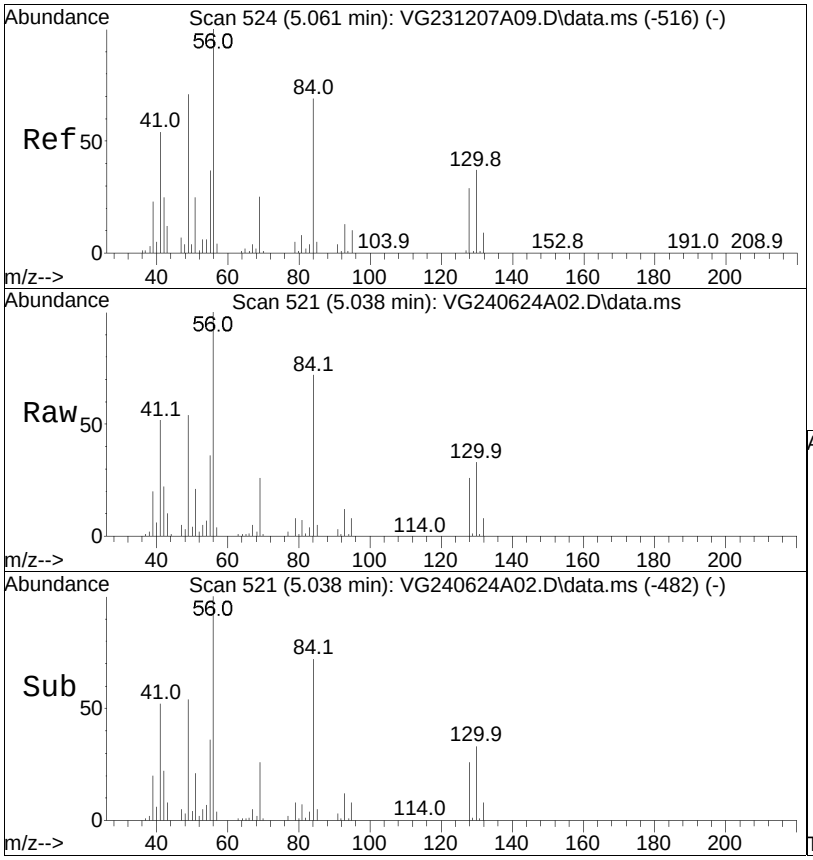


#28
cis-1,2-Dichloroethene
Concen: 10.01 ug/L
RT: 4.840 min Scan# 495
Delta R.T. 0.000 min
Lab File: VG240624A02.D
Acq: 24 Jun 2024 8:25 am

Tgt Ion: 96 Resp: 131045

Ion	Ratio	Lower	Upper
96	100		
61	139.8	96.6	144.8
98	64.3	51.3	76.9

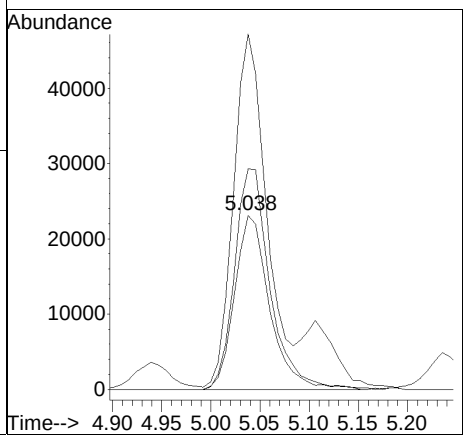


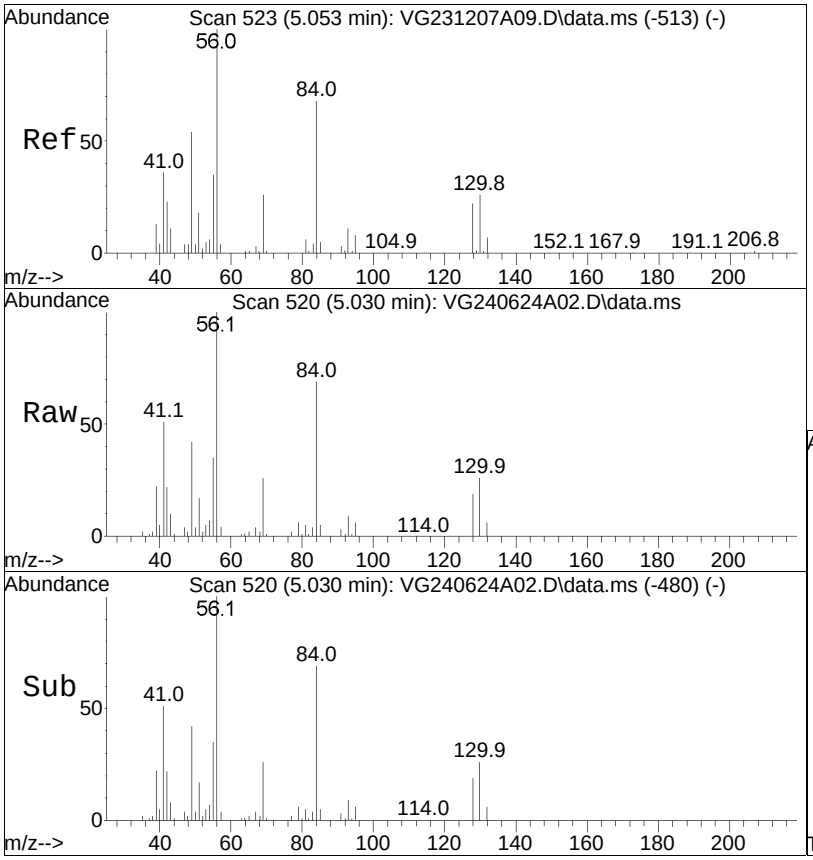


#30
Bromochloromethane
Concen: 9.70 ug/L
RT: 5.038 min Scan# 521
Delta R.T. -0.000 min
Lab File: VG240624A02.D
Acq: 24 Jun 2024 8:25 am

Tgt Ion:128 Resp: 57283

Ion	Ratio	Lower	Upper
128	100		
49	189.3	112.7	169.1#
130	128.6	103.3	154.9

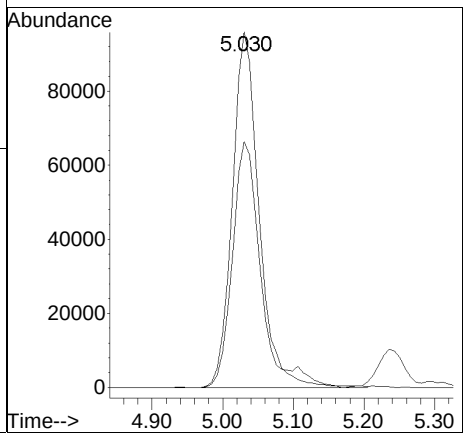


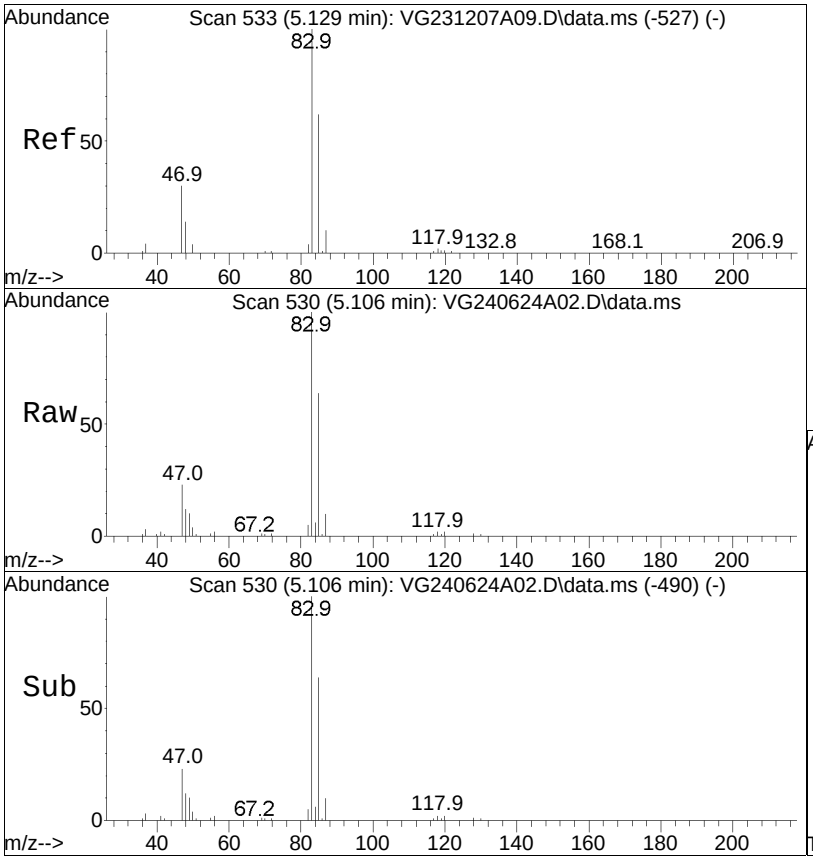


#31
Cyclohexane
Concen: 11.22 ug/L
RT: 5.030 min Scan# 520
Delta R.T. 0.000 min
Lab File: VG240624A02.D
Acq: 24 Jun 2024 8:25 am

Tgt Ion: 56 Resp: 251399

Ion	Ratio	Lower	Upper
56	100		
84	70.6	63.8	132.4

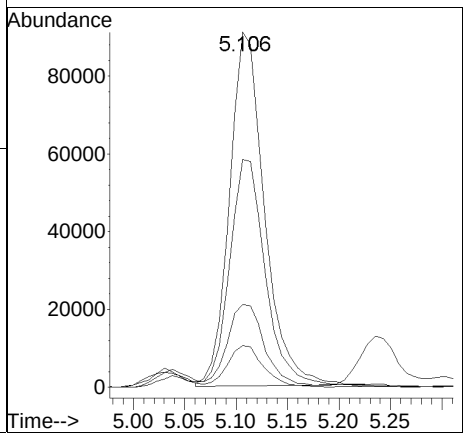


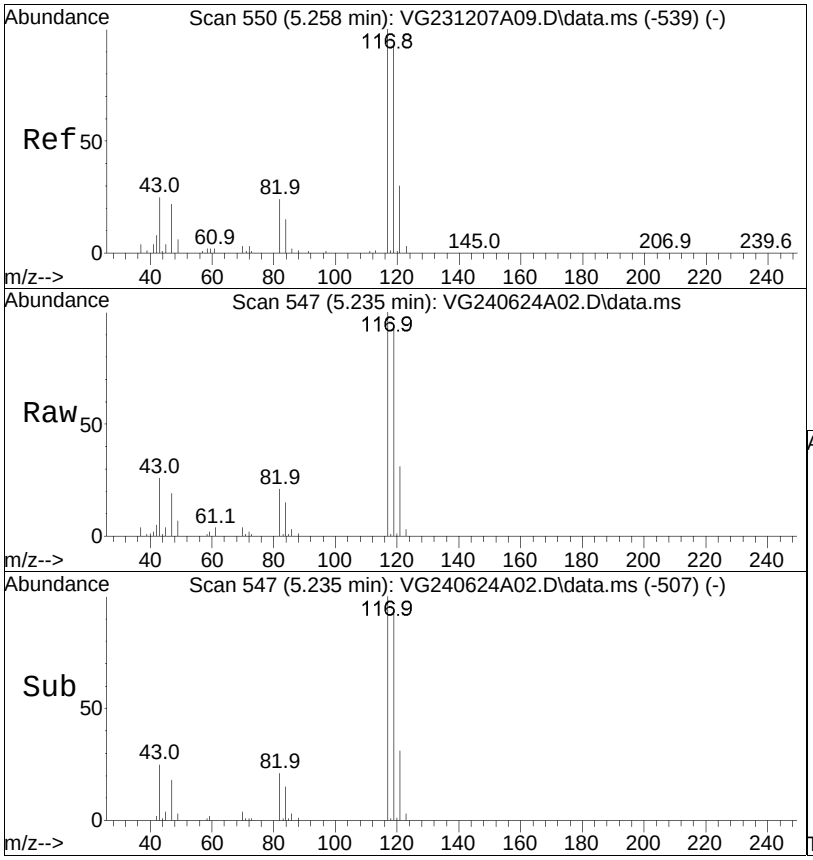


#32
Chloroform
Concen: 9.95 ug/L
RT: 5.106 min Scan# 530
Delta R.T. 0.000 min
Lab File: VG240624A02.D
Acq: 24 Jun 2024 8:25 am

Tgt Ion: 83 Resp: 215071

Ion	Ratio	Lower	Upper
83	100		
85	66.8	41.4	86.0
47	23.9	15.1	31.3
48	12.4	7.7	16.1

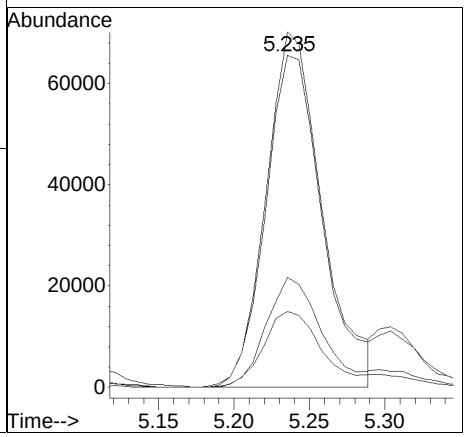


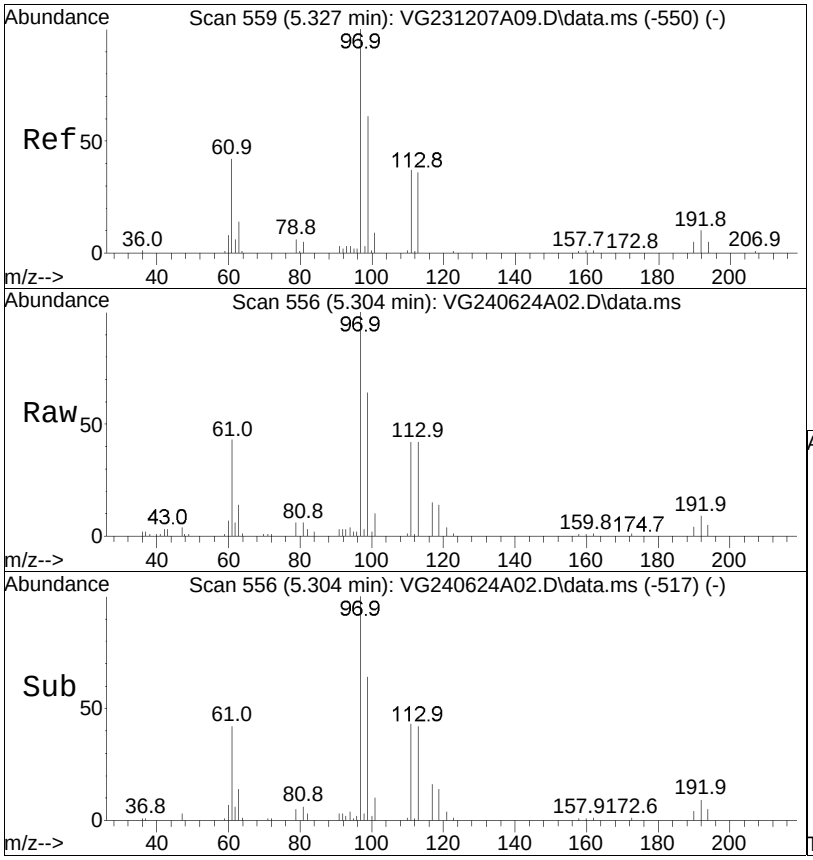


#34
Carbon tetrachloride
Concen: 10.75 ug/L
RT: 5.235 min Scan# 547
Delta R.T. 0.000 min
Lab File: VG240624A02.D
Acq: 24 Jun 2024 8:25 am

Tgt Ion:117 Resp: 181076

Ion	Ratio	Lower	Upper
117	100		
119	95.1	63.2	131.2
121	31.0	20.4	42.4
82	25.6	15.4	32.0

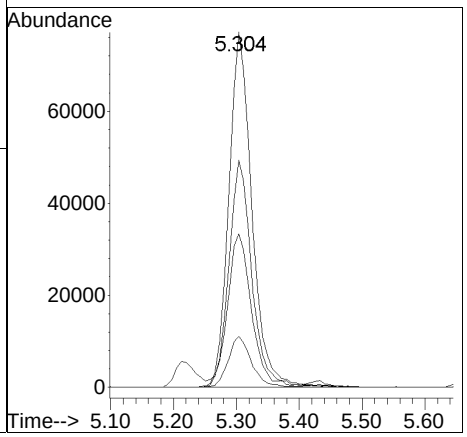


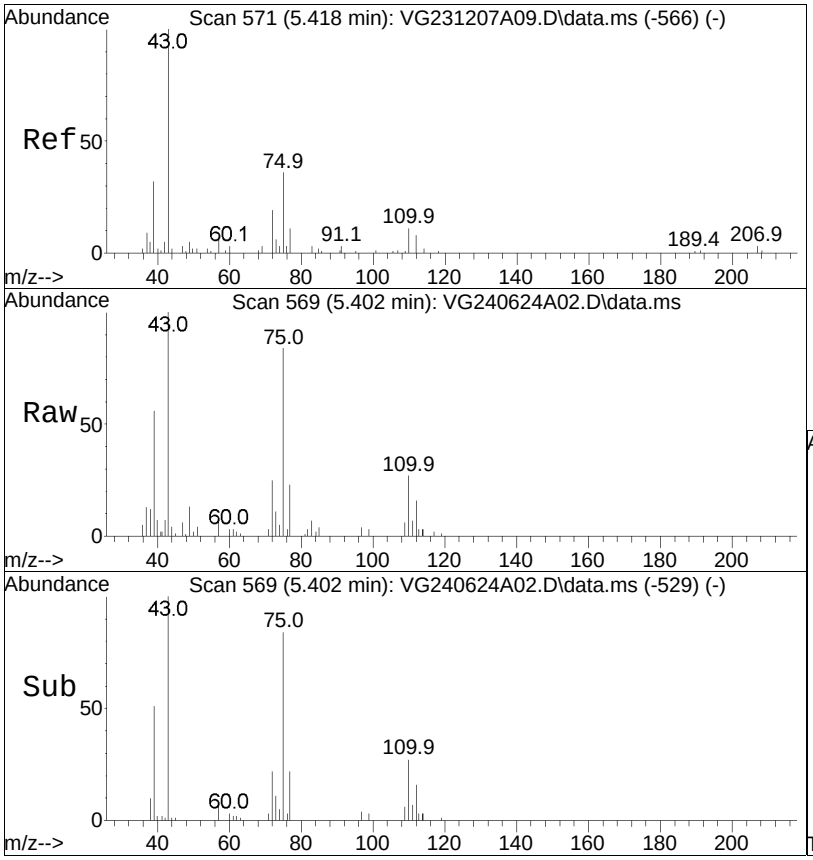


#37
1,1,1-Trichloroethane
Concen: 10.73 ug/L
RT: 5.304 min Scan# 556
Delta R.T. -0.000 min
Lab File: VG240624A02.D
Acq: 24 Jun 2024 8:25 am

Tgt Ion: 97 Resp: 198908

Ion	Ratio	Lower	Upper
97	100		
99	63.4	41.3	85.7
61	44.8	26.0	54.0
63	14.5	8.6	18.0

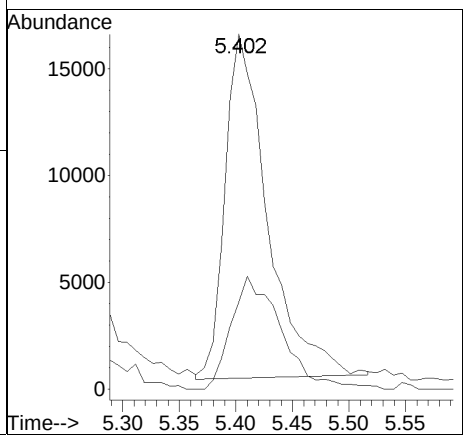


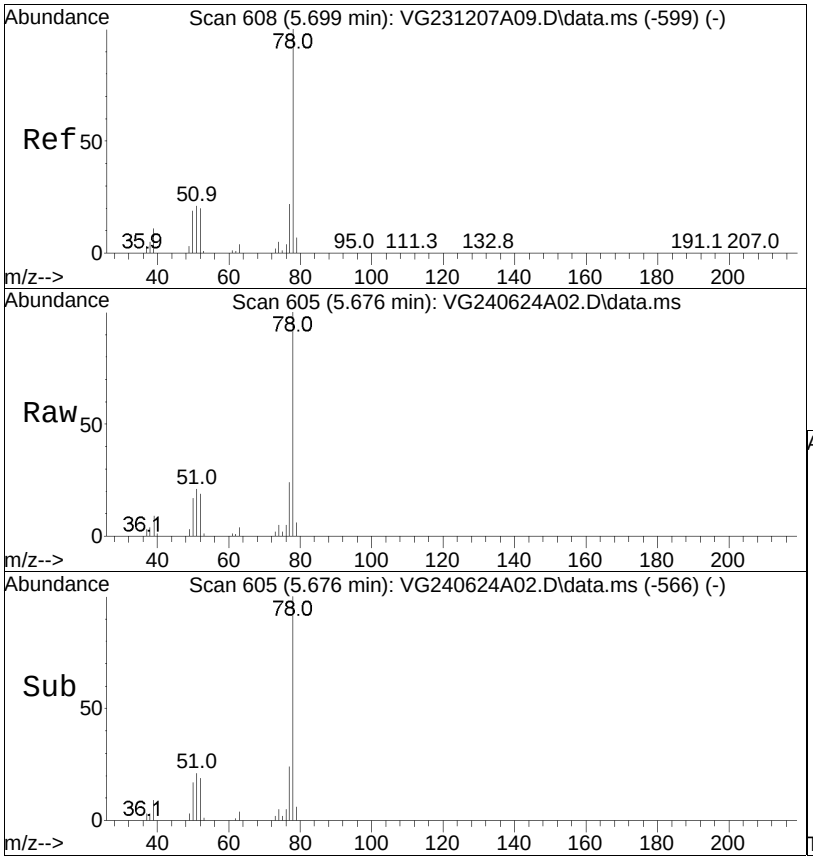


#39
2-Butanone
Concen: 10.27 ug/L
RT: 5.402 min Scan# 569
Delta R.T. 0.000 min
Lab File: VG240624A02.D
Acq: 24 Jun 2024 8:25 am

Tgt Ion: 43 Resp: 42300

Ion	Ratio	Lower	Upper
43	100		
72	38.7	42.6	63.8#

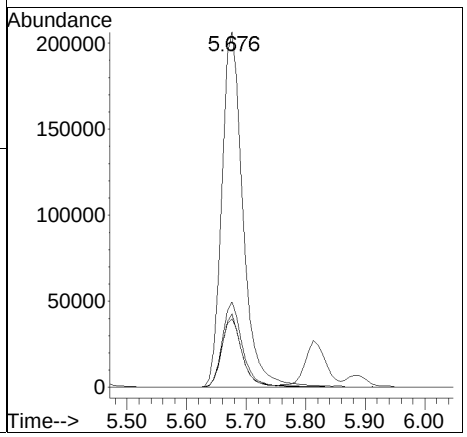


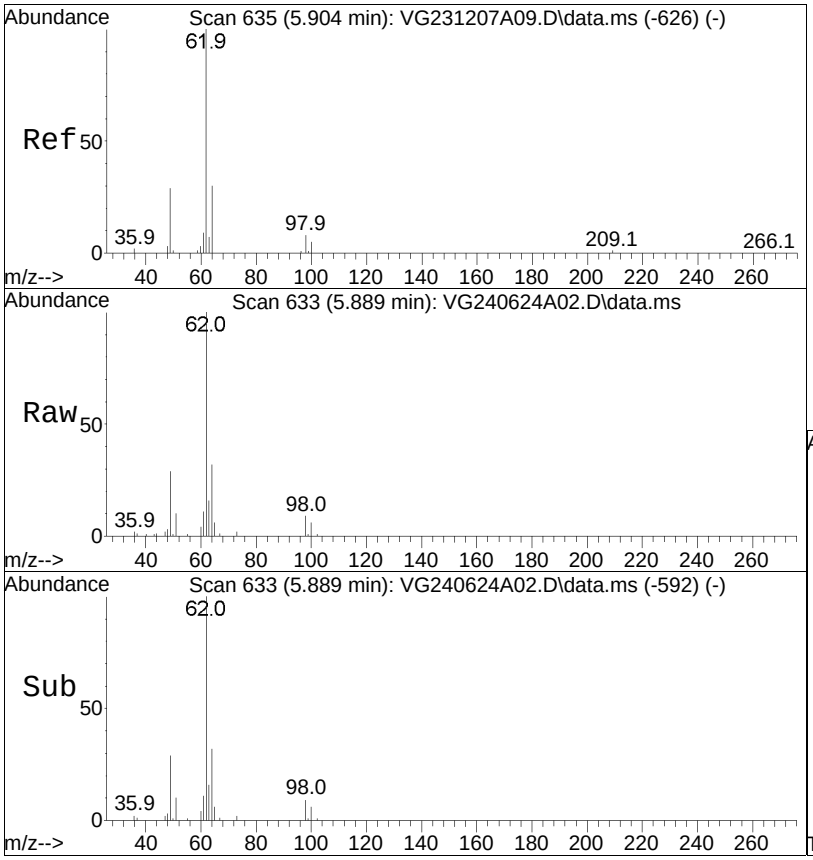


#41
Benzene
Concen: 10.78 ug/L
RT: 5.676 min Scan# 605
Delta R.T. -0.000 min
Lab File: VG240624A02.D
Acq: 24 Jun 2024 8:25 am

Tgt Ion: 78 Resp: 513779

Ion	Ratio	Lower	Upper
78	100		
77	23.1	15.5	32.1
51	19.0	9.9	20.7
52	18.7	9.2	19.2

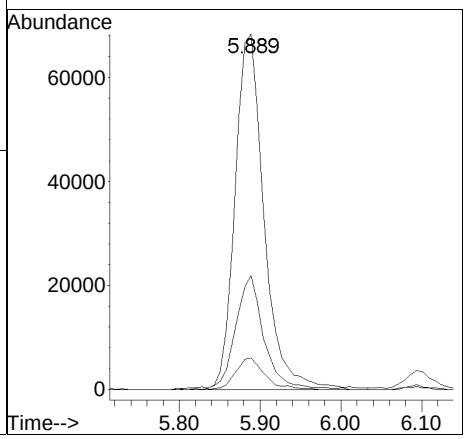


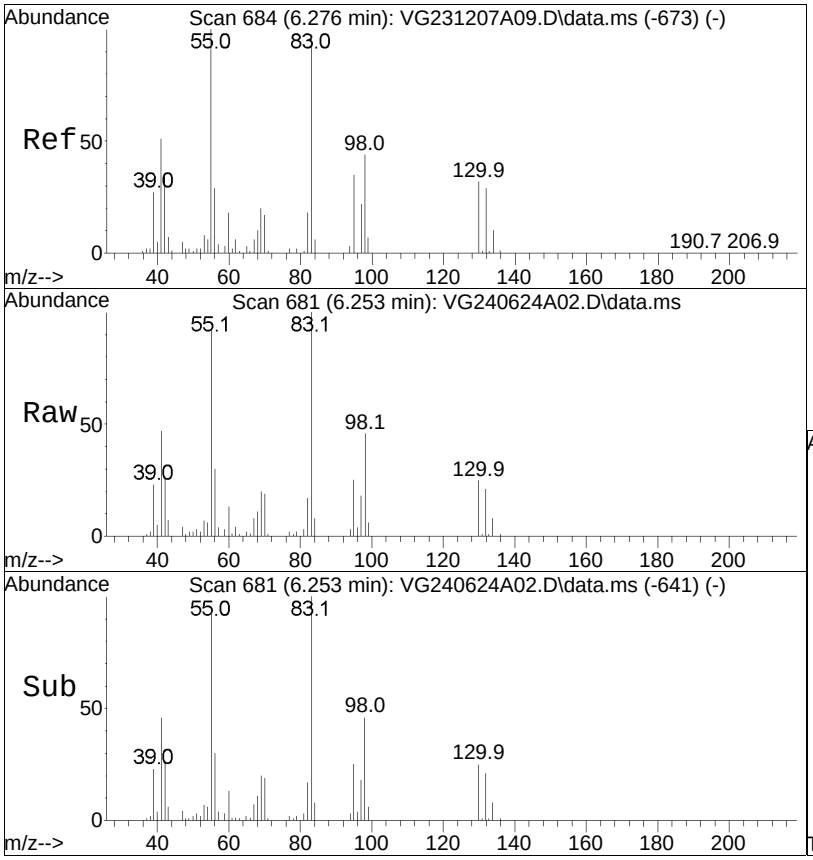


#44
1,2-Dichloroethane
Concen: 9.96 ug/L
RT: 5.889 min Scan# 633
Delta R.T. 0.008 min
Lab File: VG240624A02.D
Acq: 24 Jun 2024 8:25 am

Tgt Ion: 62 Resp: 171059

Ion	Ratio	Lower	Upper
62	100		
64	31.6	11.9	51.9
98	8.8	0.0	29.3

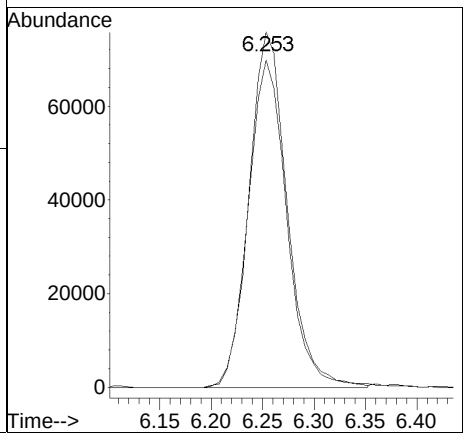


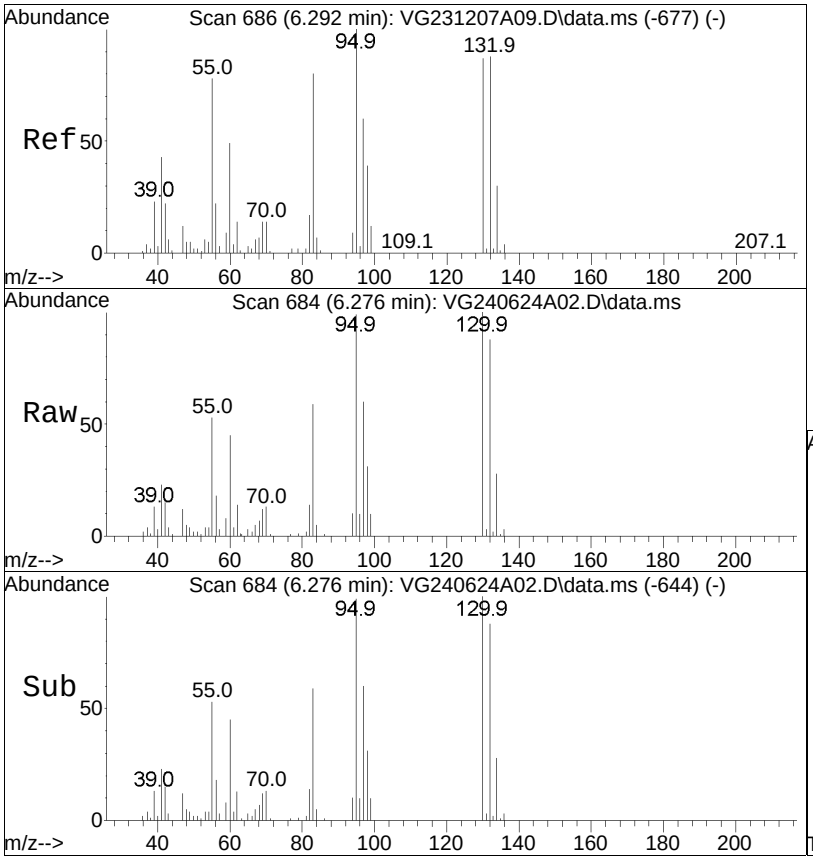


#47
Methyl cyclohexane
Concen: 10.40 ug/L
RT: 6.253 min Scan# 681
Delta R.T. 0.000 min
Lab File: VG240624A02.D
Acq: 24 Jun 2024 8:25 am

Tgt Ion: 83 Resp: 195503

Ion	Ratio	Lower	Upper
83	100		
55	93.6	56.0	84.0#

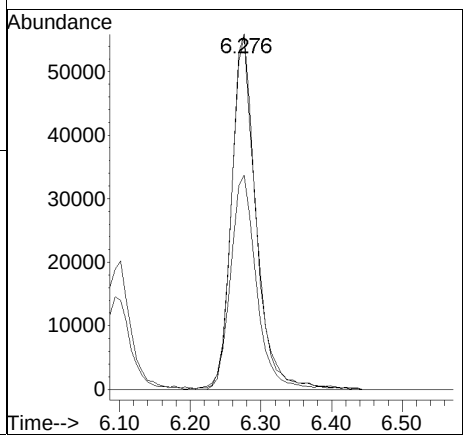


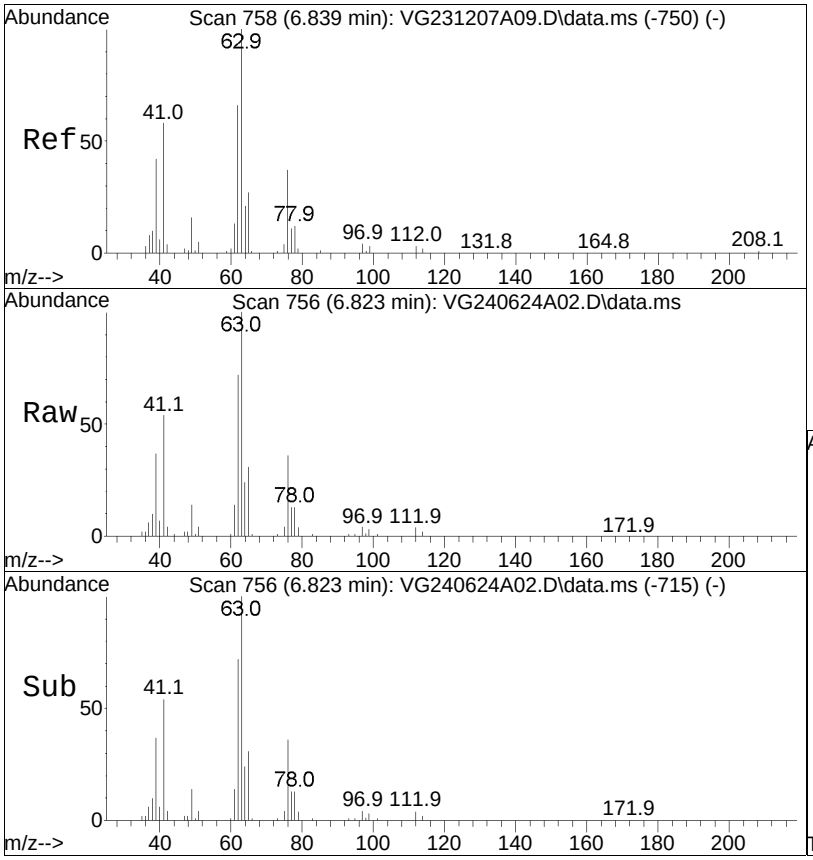


#48
Trichloroethene
Concen: 9.28 ug/L
RT: 6.276 min Scan# 684
Delta R.T. 0.000 min
Lab File: VG240624A02.D
Acq: 24 Jun 2024 8:25 am

Tgt Ion: 95 Resp: 132918

Ion	Ratio	Lower	Upper
95	100		
97	65.2	54.0	81.0
130	101.7	85.0	127.4

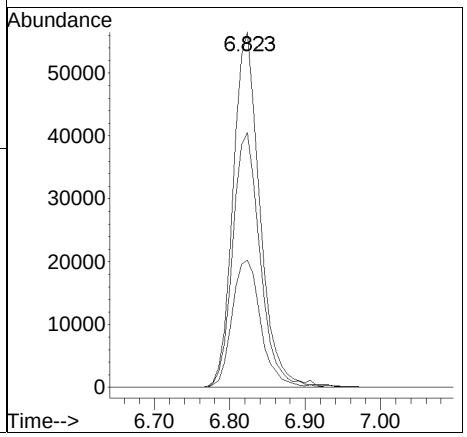


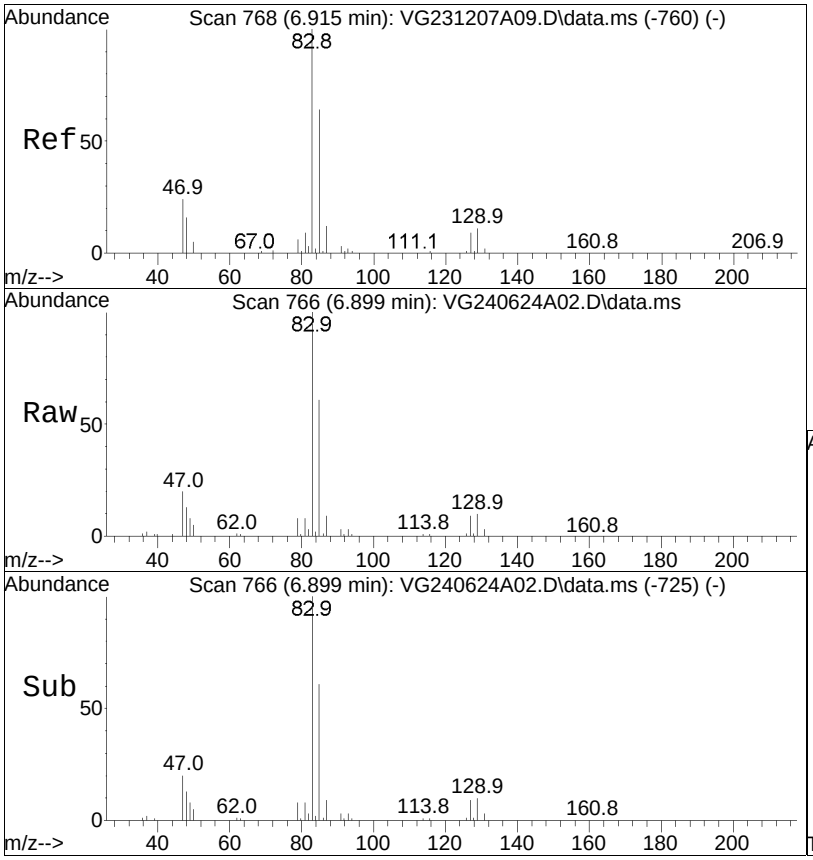


#51
1,2-Dichloropropane
Concen: 11.43 ug/L
RT: 6.823 min Scan# 756
Delta R.T. 0.008 min
Lab File: VG240624A02.D
Acq: 24 Jun 2024 8:25 am

Tgt Ion: 63 Resp: 140295

Ion	Ratio	Lower	Upper
63	100		
62	73.3	56.5	84.7
76	38.5	34.6	52.0

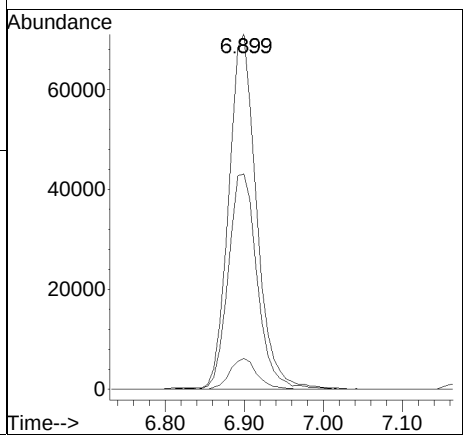


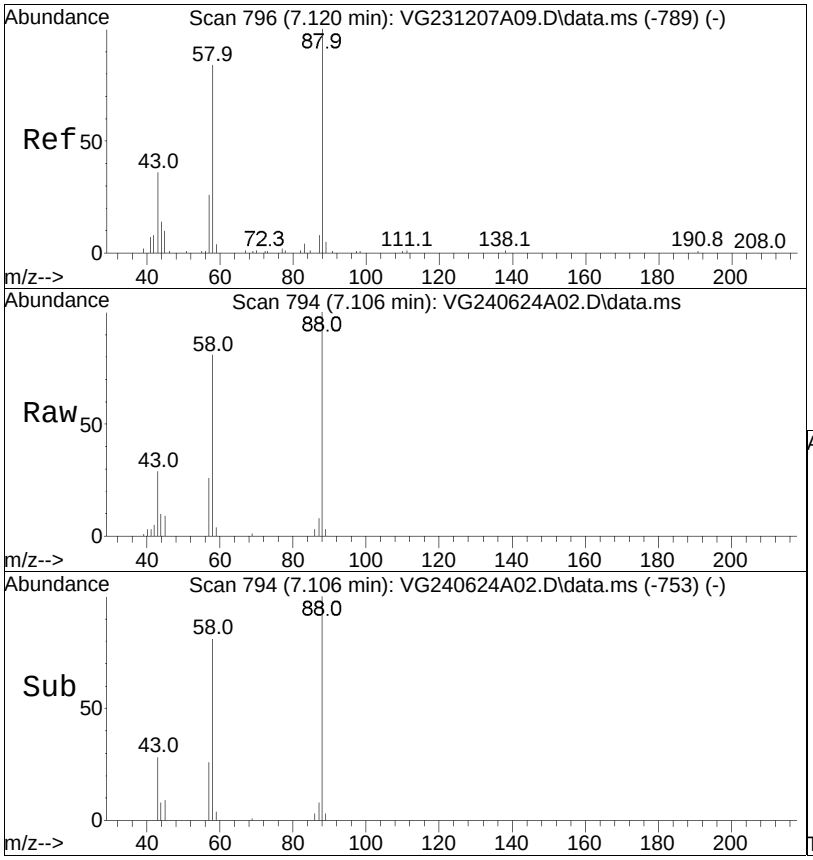


#54
Bromodichloromethane
Concen: 10.24 ug/L
RT: 6.899 min Scan# 766
Delta R.T. 0.008 min
Lab File: VG240624A02.D
Acq: 24 Jun 2024 8:25 am

Tgt Ion: 83 Resp: 172128

Ion	Ratio	Lower	Upper
83	100		
85	63.4	50.8	76.2
127	8.7	7.4	11.2

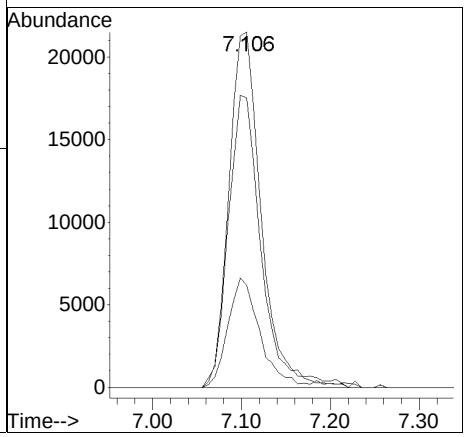


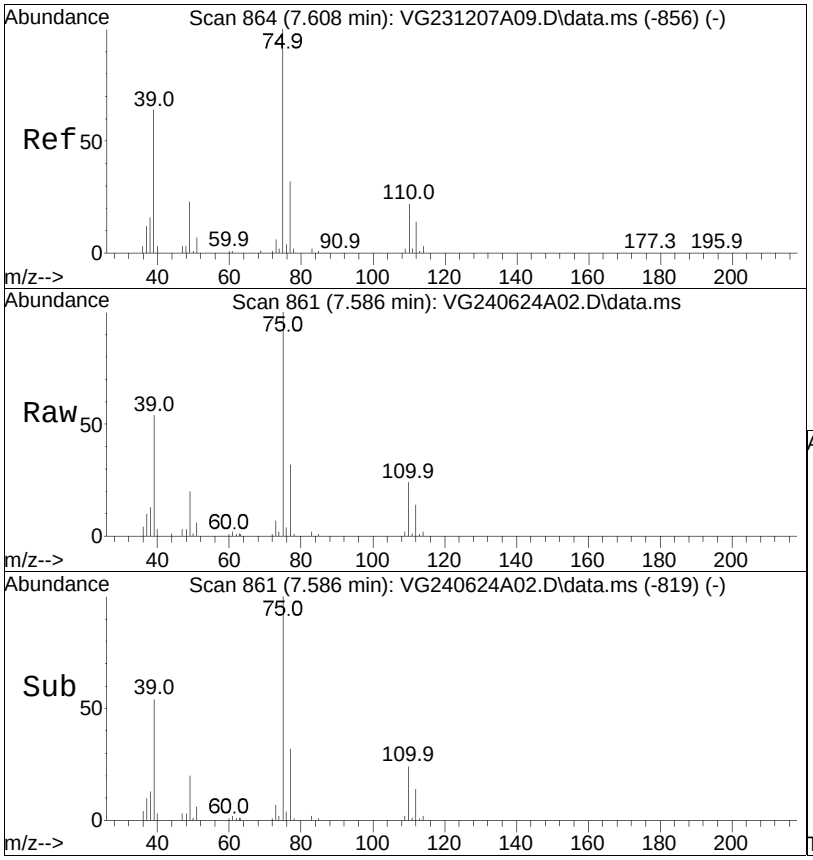


#57
1,4-Dioxane
Concen: 517.38 ug/L
RT: 7.106 min Scan# 794
Delta R.T. 0.008 min
Lab File: VG240624A02.D
Acq: 24 Jun 2024 8:25 am

Tgt Ion: 88 Resp: 54671

Ion	Ratio	Lower	Upper
88	100		
58	82.2	48.7	73.1#
43	30.5	22.4	33.6

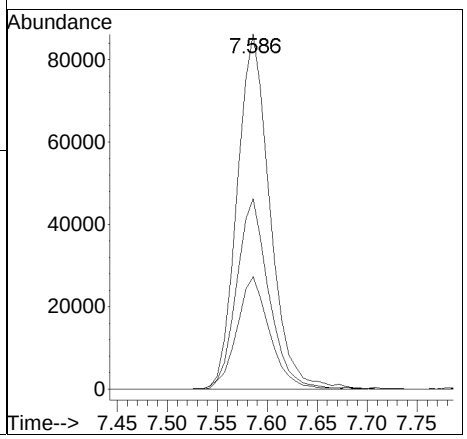


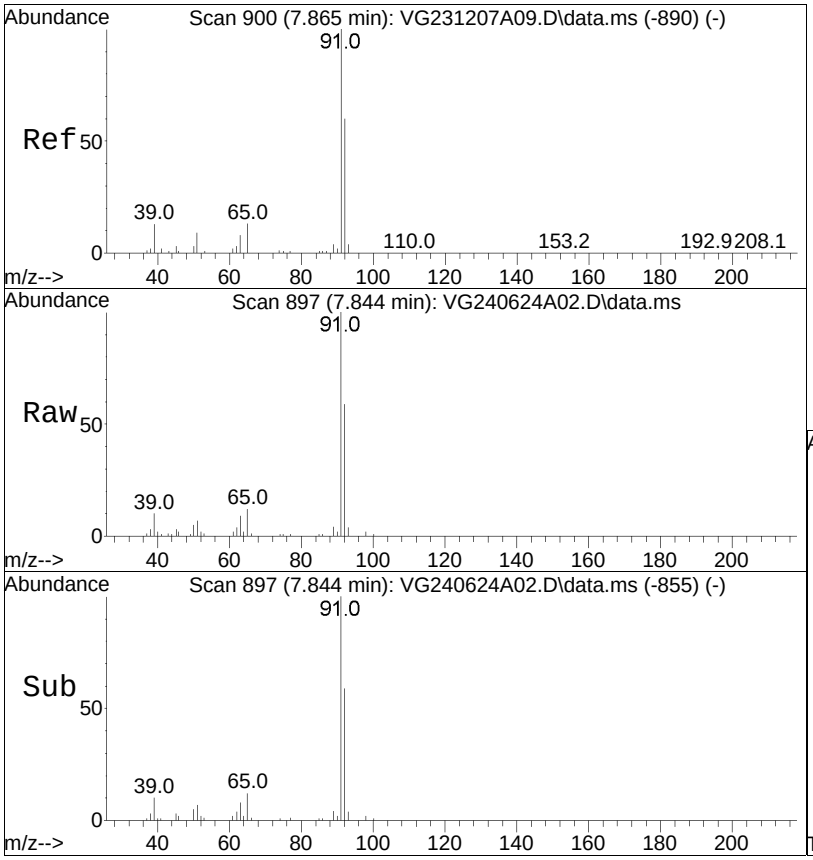


#58
cis-1,3-Dichloropropene
Concen: 10.70 ug/L
RT: 7.586 min Scan# 861
Delta R.T. -0.000 min
Lab File: VG240624A02.D
Acq: 24 Jun 2024 8:25 am

Tgt Ion: 75 Resp: 197824

Ion	Ratio	Lower	Upper
75	100		
77	31.8	24.6	36.8
39	52.8	40.8	61.2

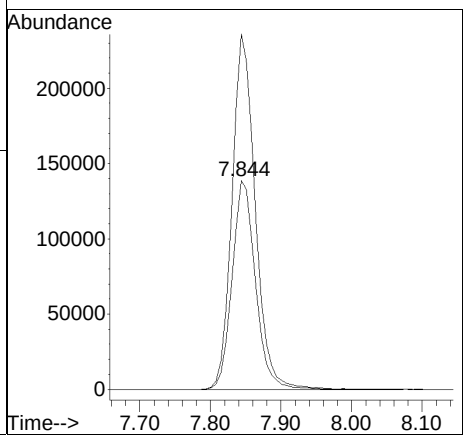


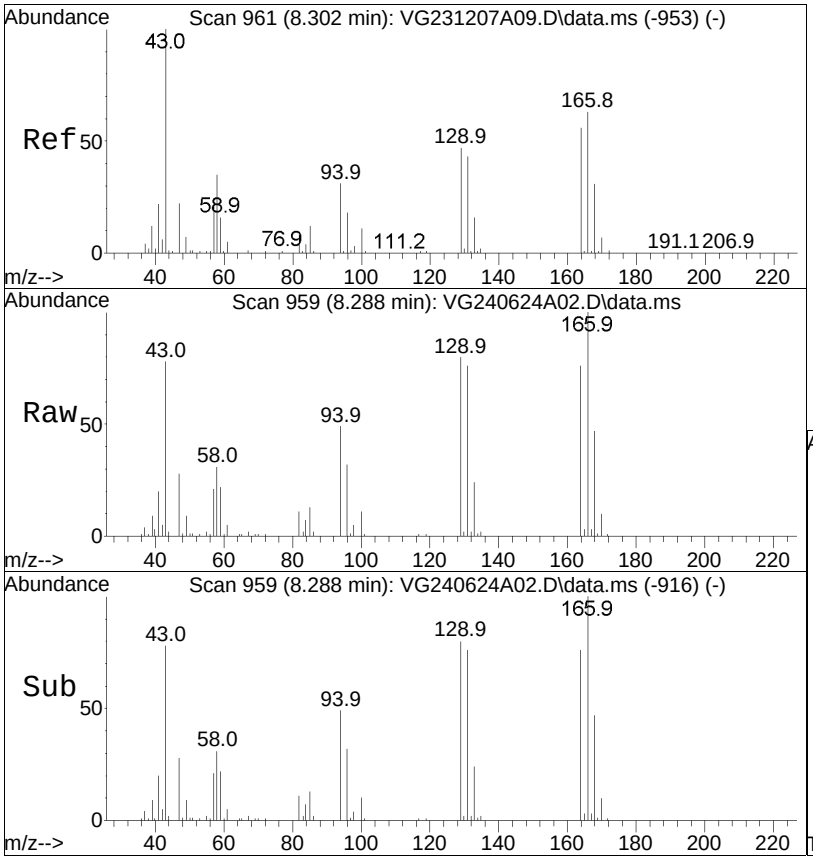


#61
Toluene
Concen: 11.05 ug/L
RT: 7.844 min Scan# 897
Delta R.T. 0.001 min
Lab File: VG240624A02.D
Acq: 24 Jun 2024 8:25 am

Tgt Ion: 92 Resp: 319003

Ion	Ratio	Lower	Upper
92	100		
91	168.3	134.8	202.2

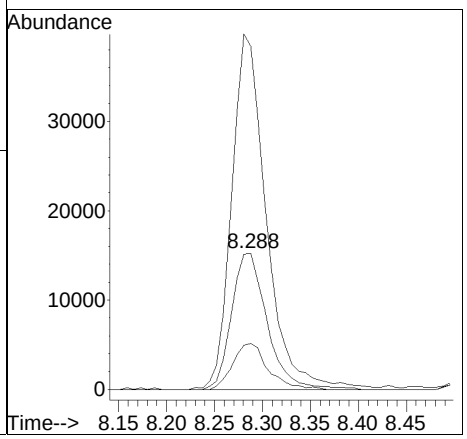


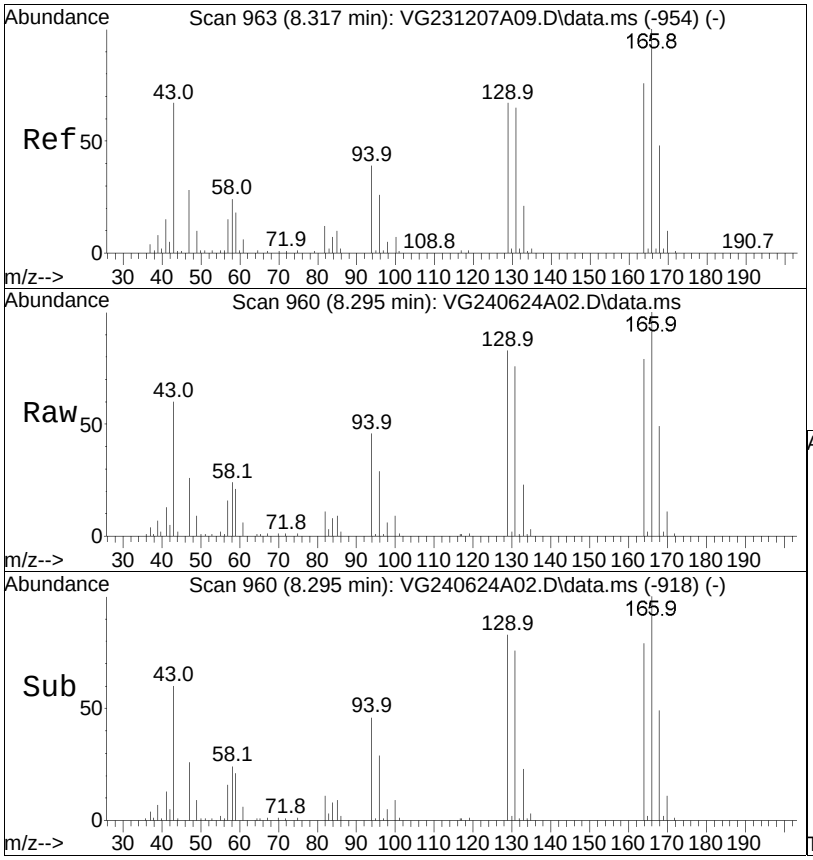


#62
4-Methyl-2-pentanone
Concen: 12.14 ug/L
RT: 8.288 min Scan# 959
Delta R.T. 0.008 min
Lab File: VG240624A02.D
Acq: 24 Jun 2024 8:25 am

Tgt Ion: 58 Resp: 39227

Ion	Ratio	Lower	Upper
58	100		
100	33.4	33.6	50.4#
43	254.1	204.3	306.5

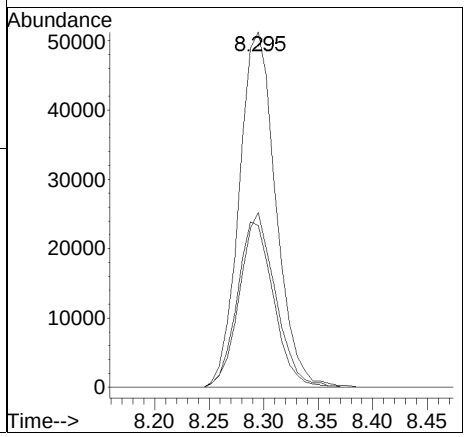


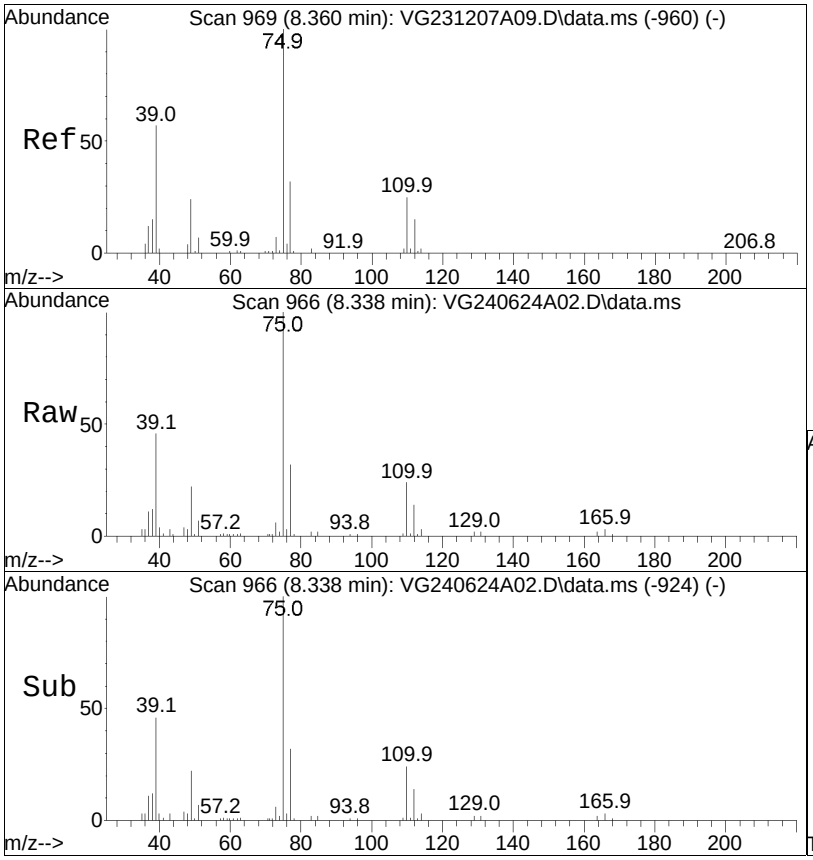


#63
Tetrachloroethene
Concen: 10.68 ug/L
RT: 8.295 min Scan# 960
Delta R.T. -0.000 min
Lab File: VG240624A02.D
Acq: 24 Jun 2024 8:25 am

Tgt Ion:166 Resp: 120179

Ion	Ratio	Lower	Upper
166	100		
168	48.0	27.3	67.3
94	46.3	20.5	60.5

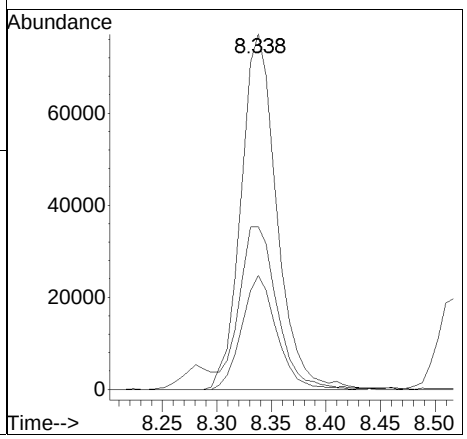


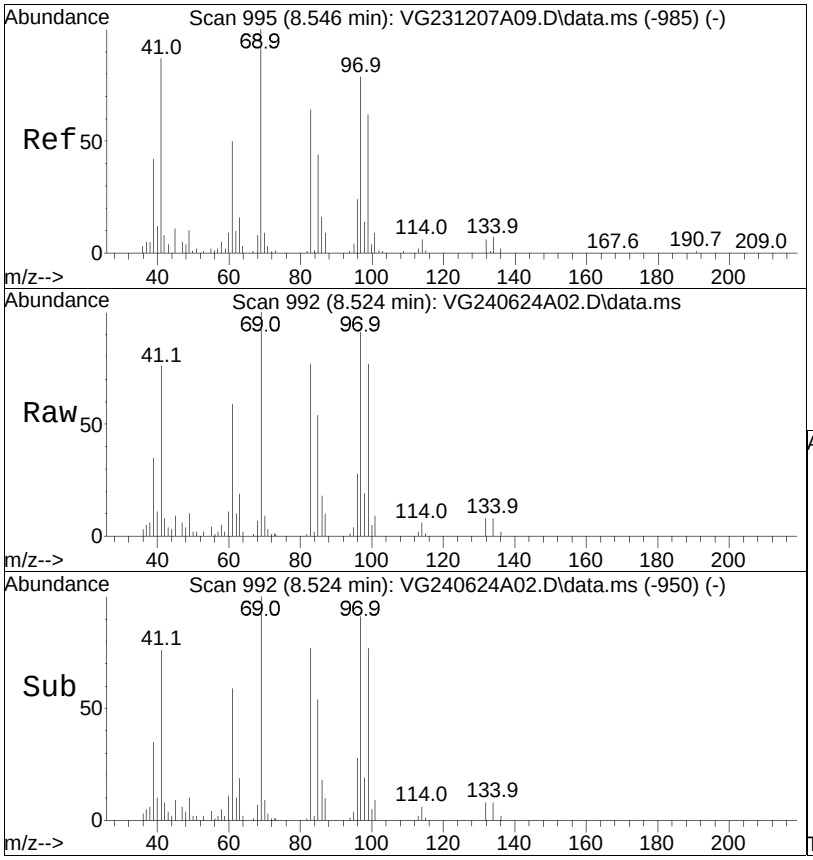


#65
trans-1,3-Dichloropropene
Concen: 11.28 ug/L
RT: 8.338 min Scan# 966
Delta R.T. -0.000 min
Lab File: VG240624A02.D
Acq: 24 Jun 2024 8:25 am

Tgt Ion: 75 Resp: 176254

Ion	Ratio	Lower	Upper
75	100		
77	31.3	11.3	51.3
39	49.5	36.0	76.0

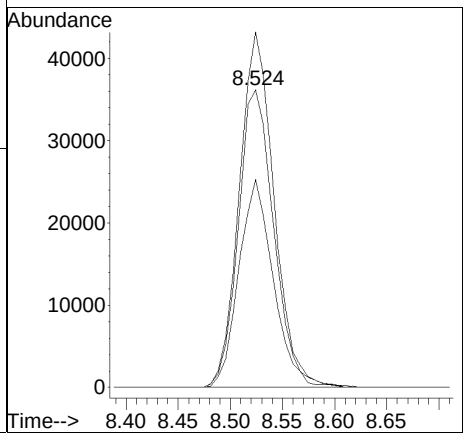


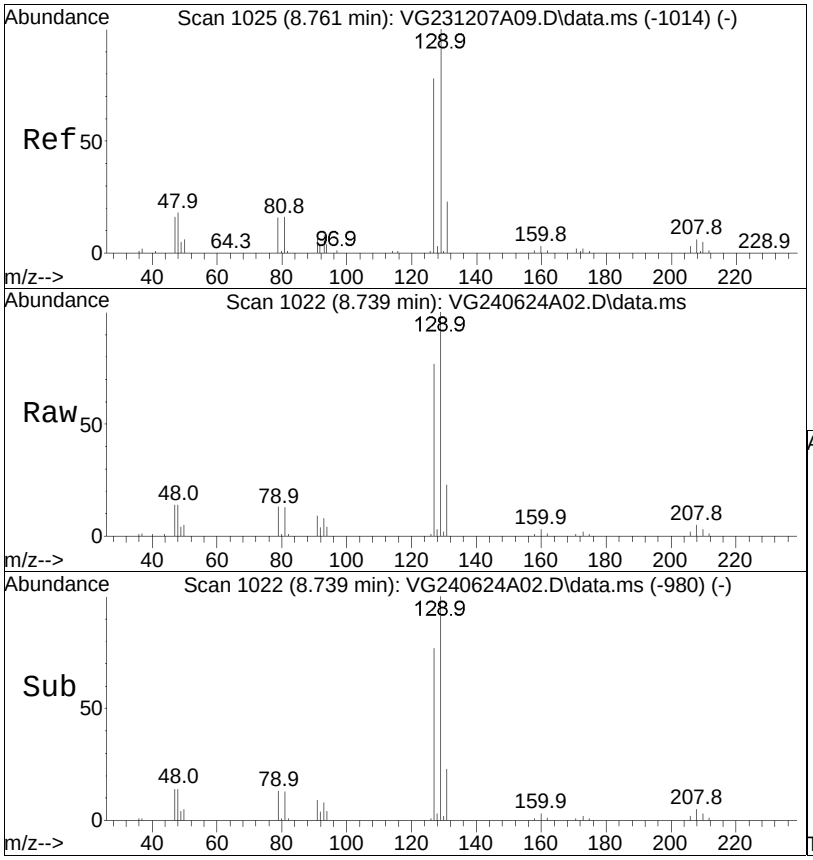


#68
1,1,2-Trichloroethane
Concen: 10.62 ug/L
RT: 8.524 min Scan# 992
Delta R.T. 0.000 min
Lab File: VG240624A02.D
Acq: 24 Jun 2024 8:25 am

Tgt Ion: 83 Resp: 86026

Ion	Ratio	Lower	Upper
83	100		
97	116.5	101.0	141.0
85	67.4	47.9	87.9

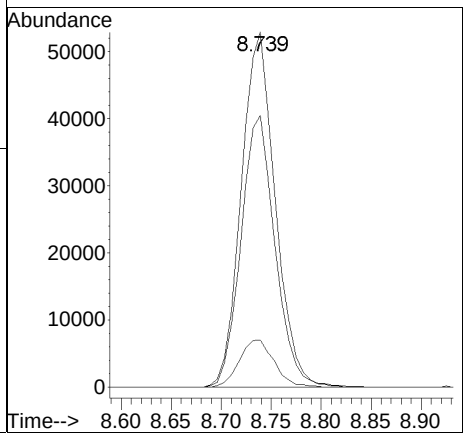


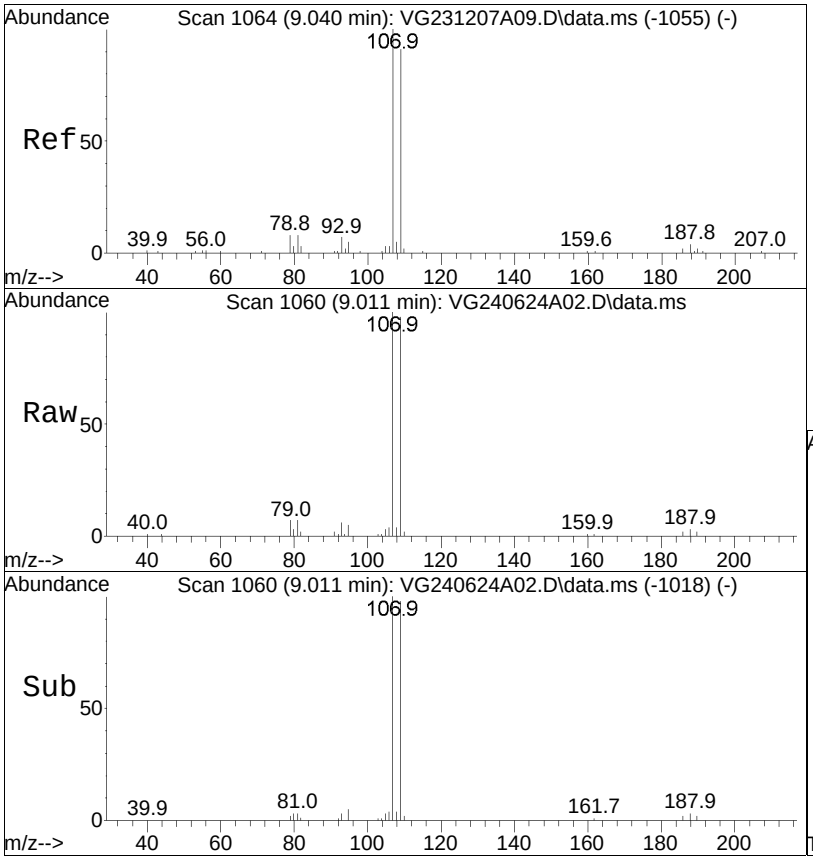


#69
Chlorodibromomethane
Concen: 10.42 ug/L
RT: 8.739 min Scan# 1022
Delta R.T. 0.000 min
Lab File: VG240624A02.D
Acq: 24 Jun 2024 8:25 am

Tgt Ion:129 Resp: 125346

Ion	Ratio	Lower	Upper
129	100		
81	13.8	0.0	35.0
127	76.4	57.1	97.1

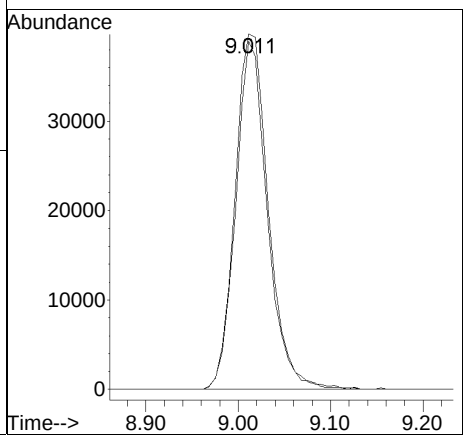


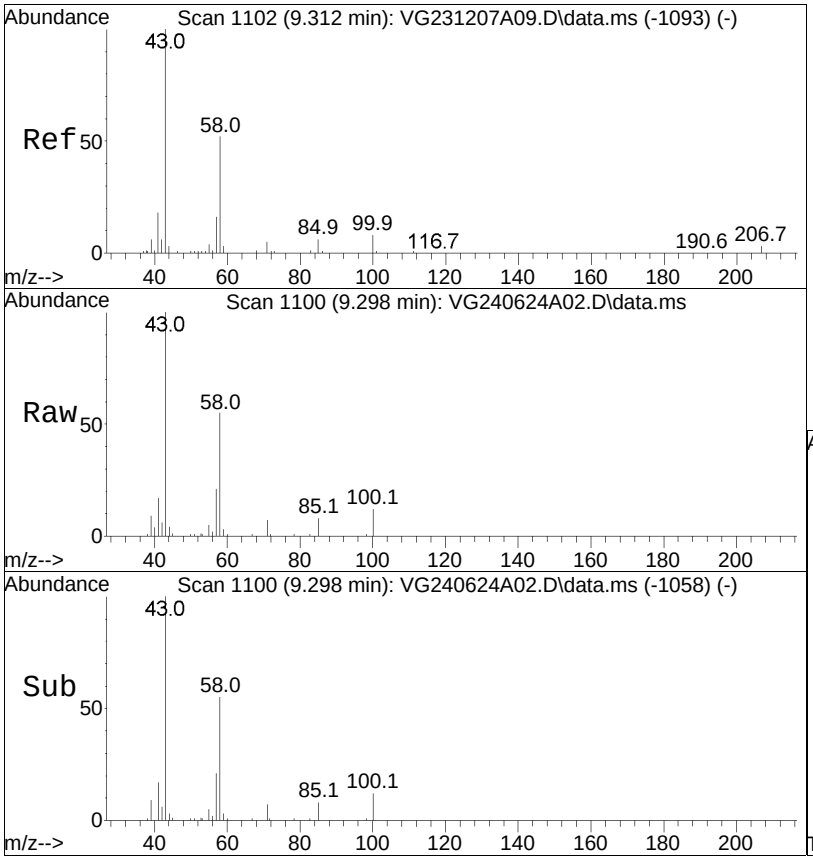


#71
1,2-Dibromoethane
Concen: 10.86 ug/L
RT: 9.011 min Scan# 1060
Delta R.T. 0.000 min
Lab File: VG240624A02.D
Acq: 24 Jun 2024 8:25 am

Tgt Ion:107 Resp: 100478

Ion	Ratio	Lower	Upper
107	100		
109	92.2	76.0	114.0

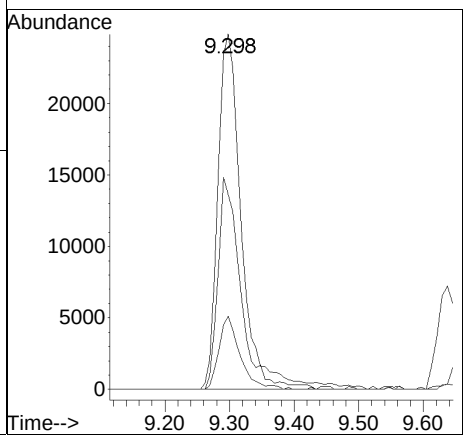


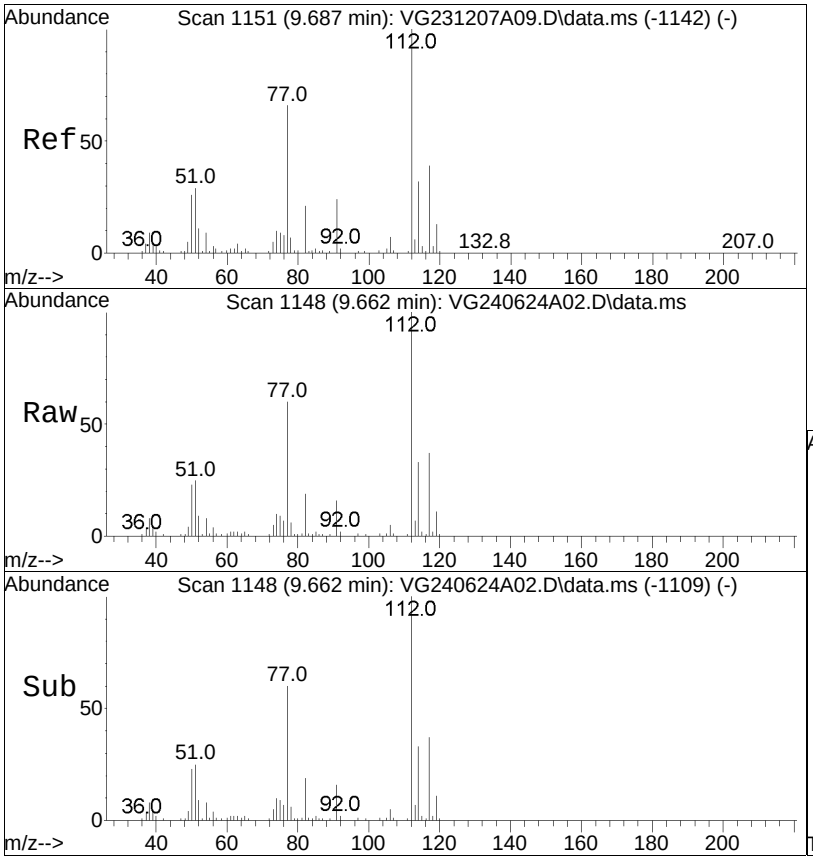


#72
2-Hexanone
Concen: 12.08 ug/L
RT: 9.298 min Scan# 1100
Delta R.T. -0.000 min
Lab File: VG240624A02.D
Acq: 24 Jun 2024 8:25 am

Tgt Ion: 43 Resp: 65130

Ion	Ratio	Lower	Upper
43	100		
58	55.1	43.8	65.6
57	18.0	15.2	22.8

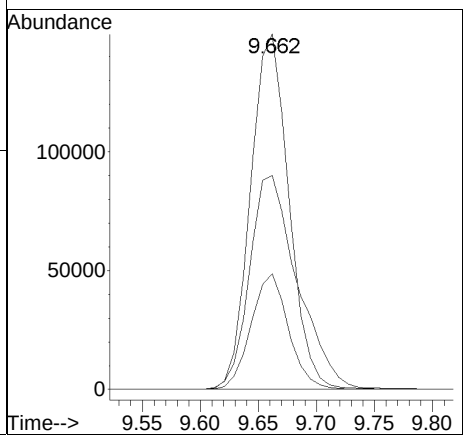


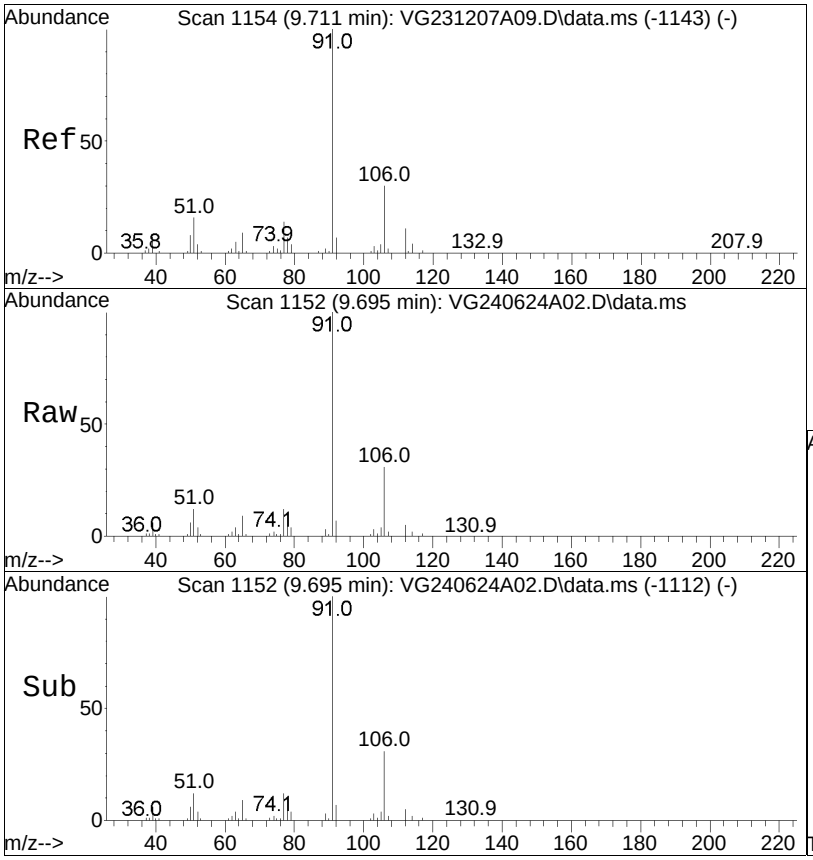


#73
Chlorobenzene
Concen: 10.55 ug/L
RT: 9.662 min Scan# 1148
Delta R.T. -0.000 min
Lab File: VG240624A02.D
Acq: 24 Jun 2024 8:25 am

Tgt Ion:112 Resp: 343784

Ion	Ratio	Lower	Upper
112	100		
77	75.4	55.9	83.9
114	31.9	25.4	38.0

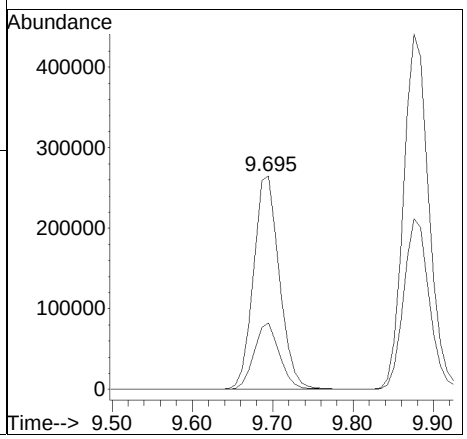


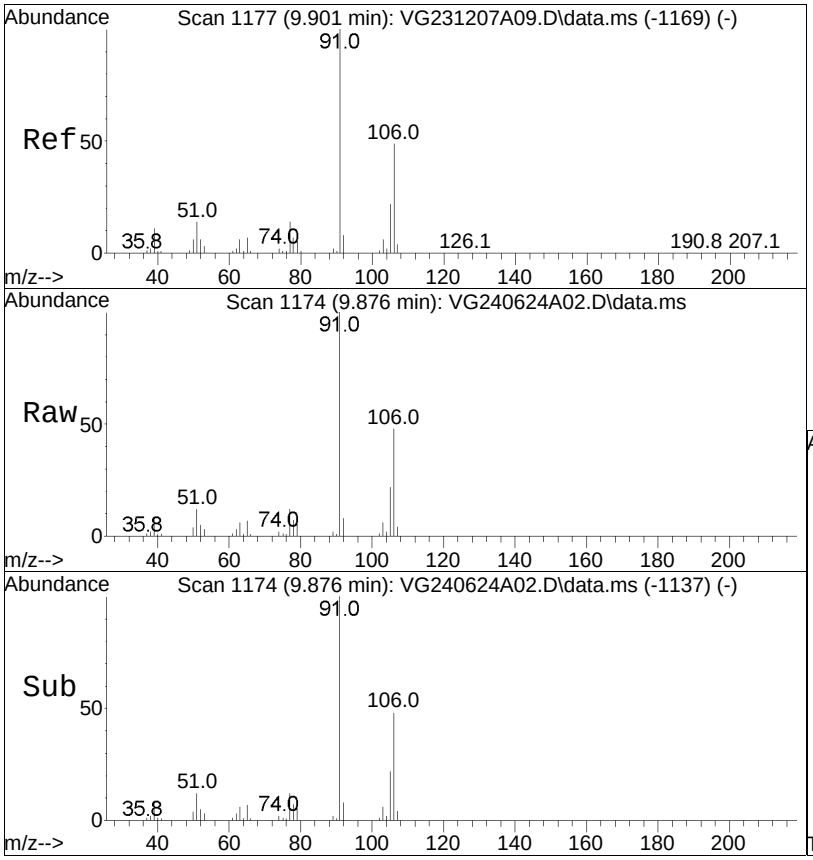


#74
Ethylbenzene
Concen: 10.60 ug/L
RT: 9.695 min Scan# 1152
Delta R.T. 0.009 min
Lab File: VG240624A02.D
Acq: 24 Jun 2024 8:25 am

Tgt Ion: 91 Resp: 595672

Ion	Ratio	Lower	Upper
91	100		
106	30.6	25.3	37.9

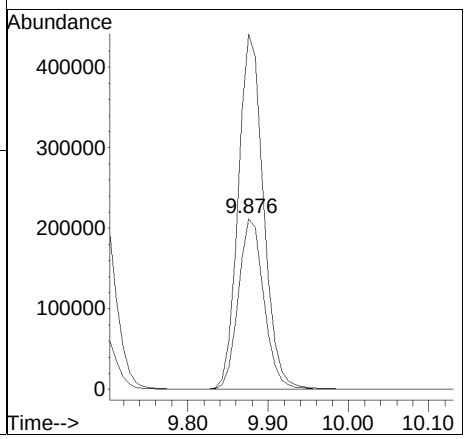


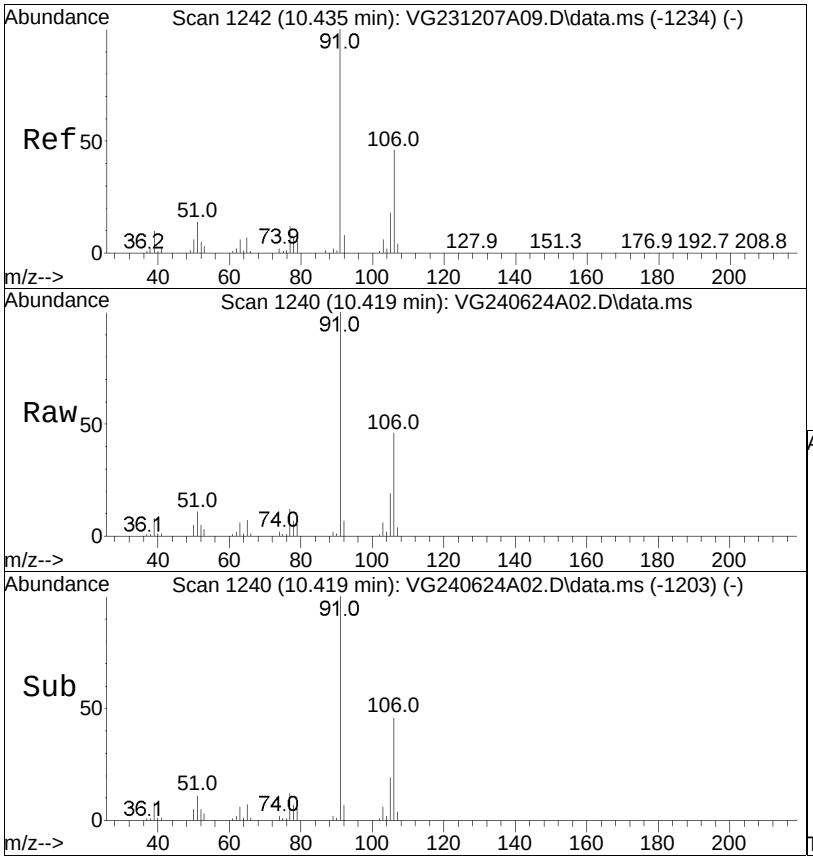


#76
p/m Xylene
Concen: 20.01 ug/L
RT: 9.876 min Scan# 1174
Delta R.T. 0.001 min
Lab File: VG240624A02.D
Acq: 24 Jun 2024 8:25 am

Tgt Ion:106 Resp: 469735

Ion	Ratio	Lower	Upper
106	100		
91	205.6	157.1	235.7

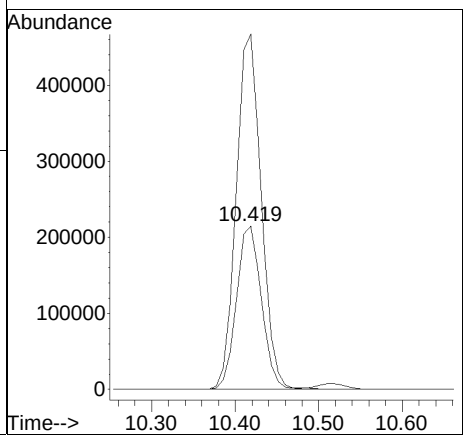


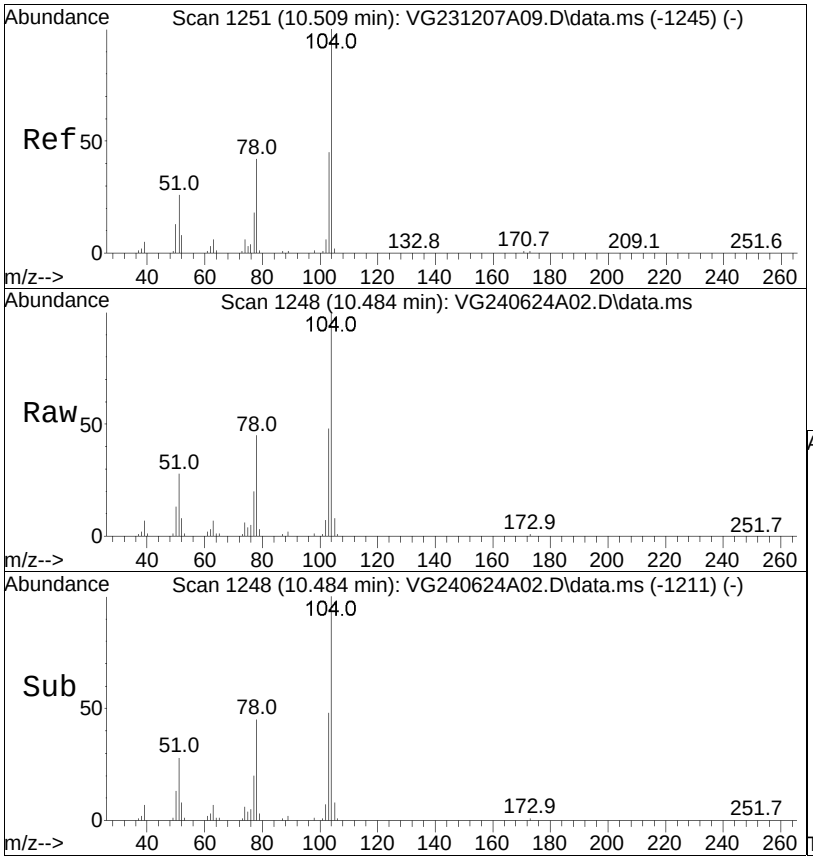


#77
o Xylene
Concen: 19.14 ug/L
RT: 10.419 min Scan# 1240
Delta R.T. 0.001 min
Lab File: VG240624A02.D
Acq: 24 Jun 2024 8:25 am

Tgt Ion:106 Resp: 448108

Ion	Ratio	Lower	Upper
106	100		
91	216.3	164.7	247.1

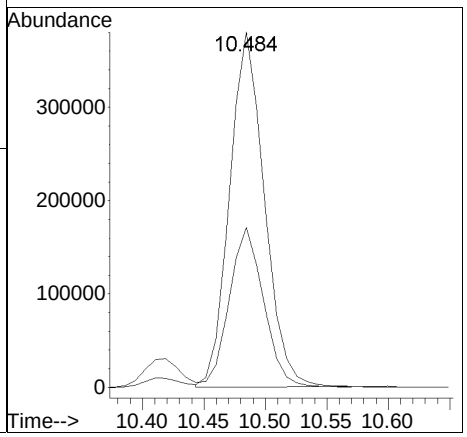


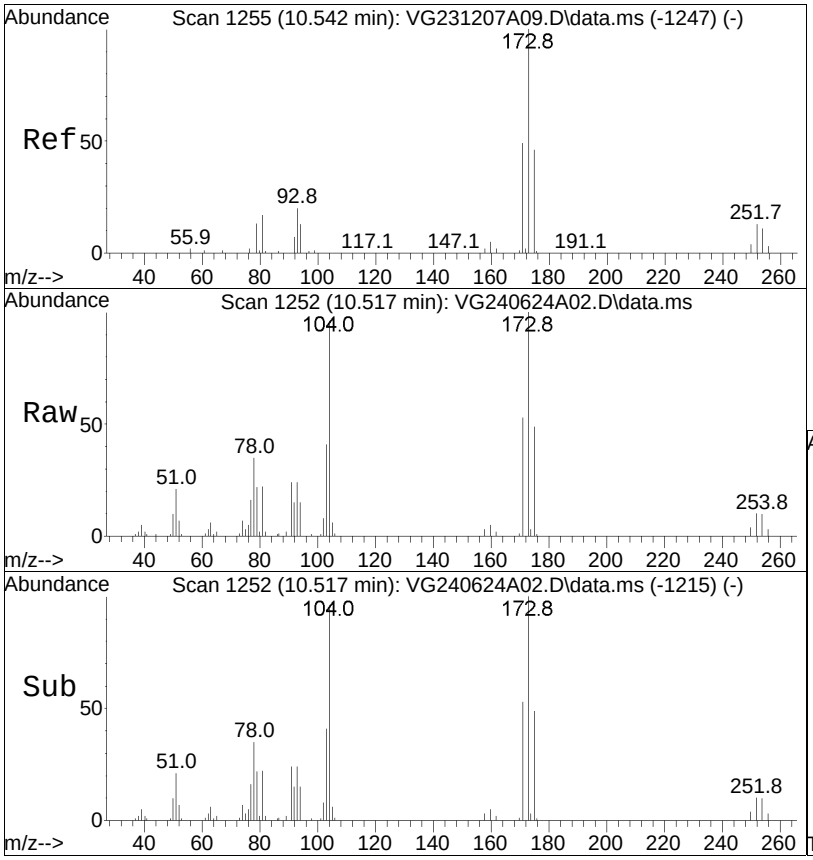


#78
Styrene
Concen: 20.08 ug/L
RT: 10.484 min Scan# 1248
Delta R.T. 0.000 min
Lab File: VG240624A02.D
Acq: 24 Jun 2024 8:25 am

Tgt Ion:104 Resp: 747294

Ion	Ratio	Lower	Upper
104	100		
78	45.1	32.2	48.4

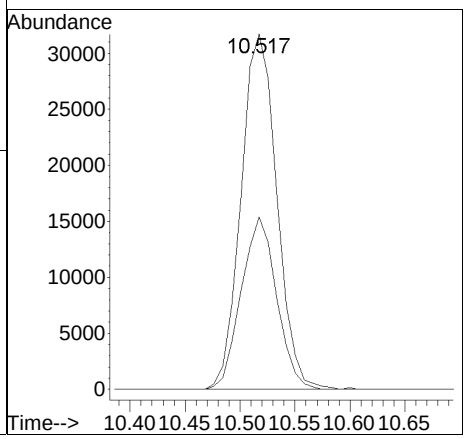


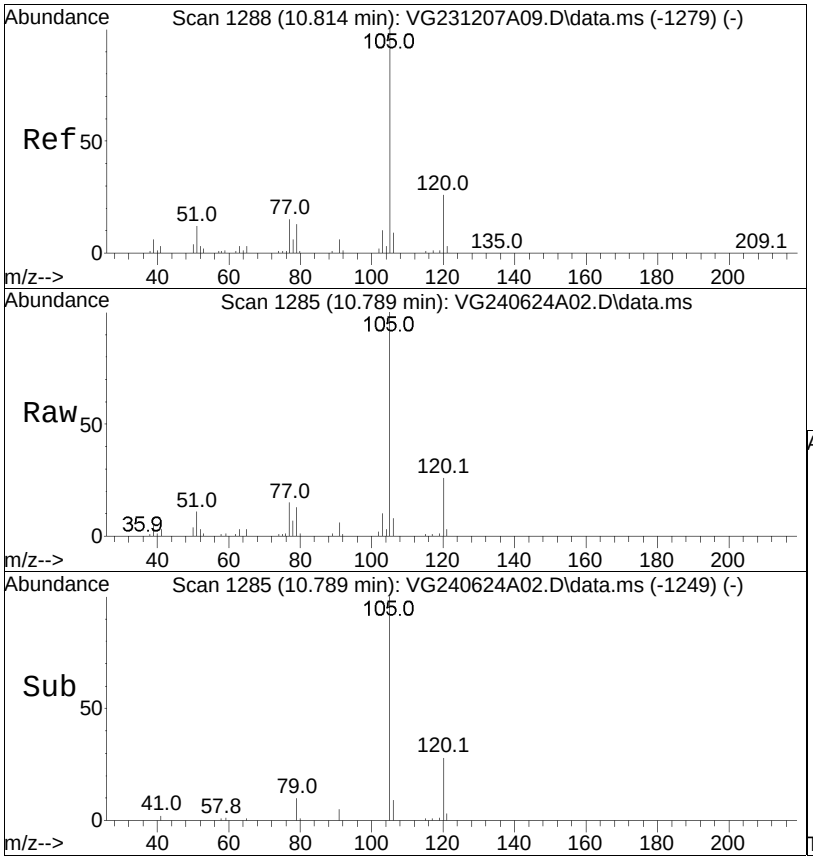


#80
Bromoform
Concen: 9.85 ug/L
RT: 10.517 min Scan# 1252
Delta R.T. 0.000 min
Lab File: VG240624A02.D
Acq: 24 Jun 2024 8:25 am

Tgt Ion:173 Resp: 71725

Ion	Ratio	Lower	Upper
173	100		
175	48.0	28.0	68.0

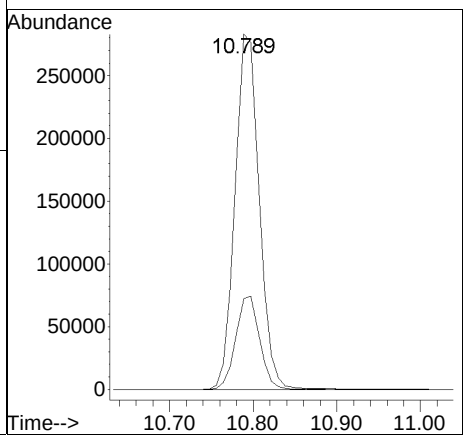


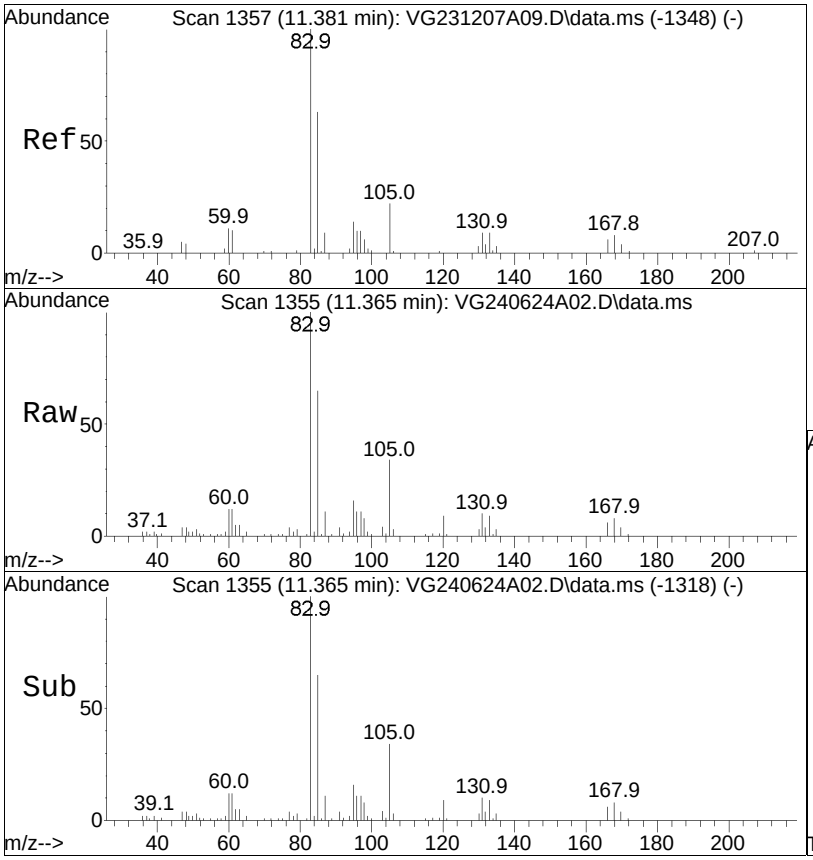


#82
Isopropylbenzene
Concen: 10.67 ug/L
RT: 10.789 min Scan# 1285
Delta R.T. -0.000 min
Lab File: VG240624A02.D
Acq: 24 Jun 2024 8:25 am

Tgt Ion:105 Resp: 570840

Ion	Ratio	Lower	Upper
105	100		
120	25.8	7.0	47.0

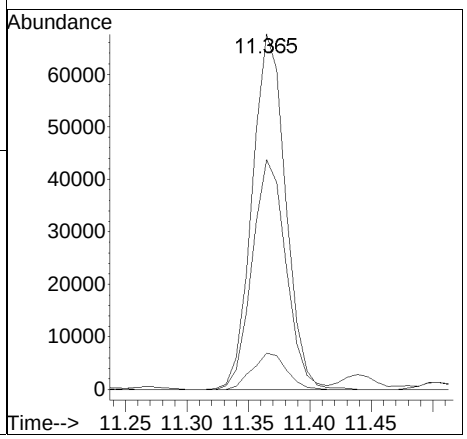


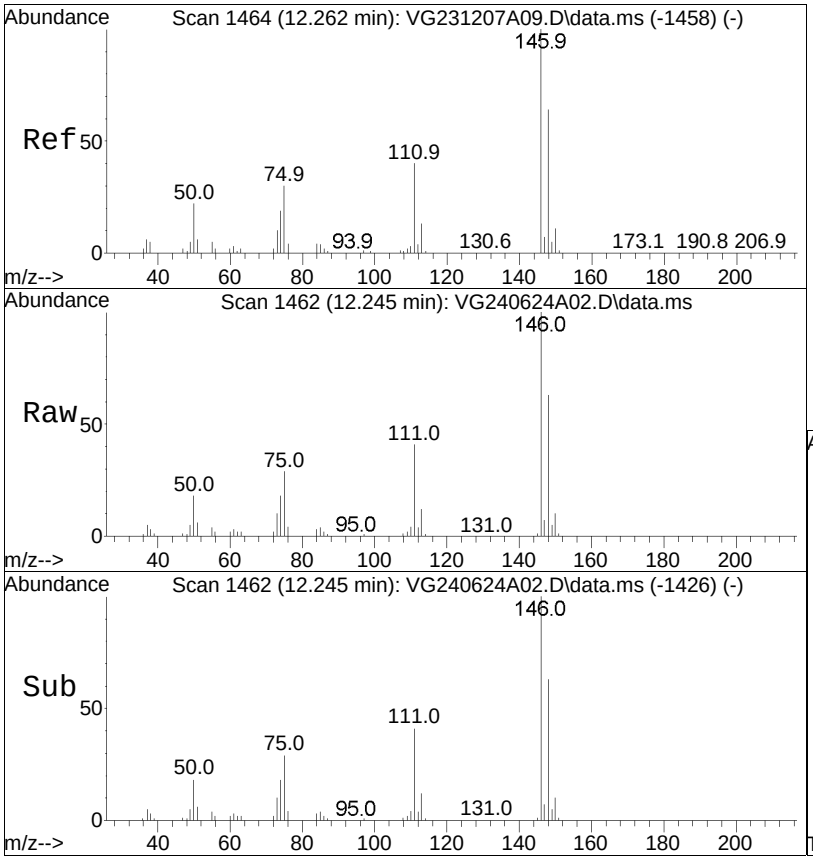


#87
1,1,2,2-Tetrachloroethane
Concen: 13.01 ug/L
RT: 11.365 min Scan# 1355
Delta R.T. 0.001 min
Lab File: VG240624A02.D
Acq: 24 Jun 2024 8:25 am

Tgt Ion: 83 Resp: 127681

Ion	Ratio	Lower	Upper
83	100		
131	10.4	0.0	31.0
85	65.8	43.9	83.9

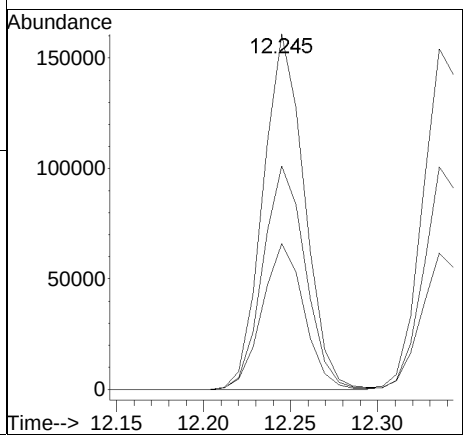


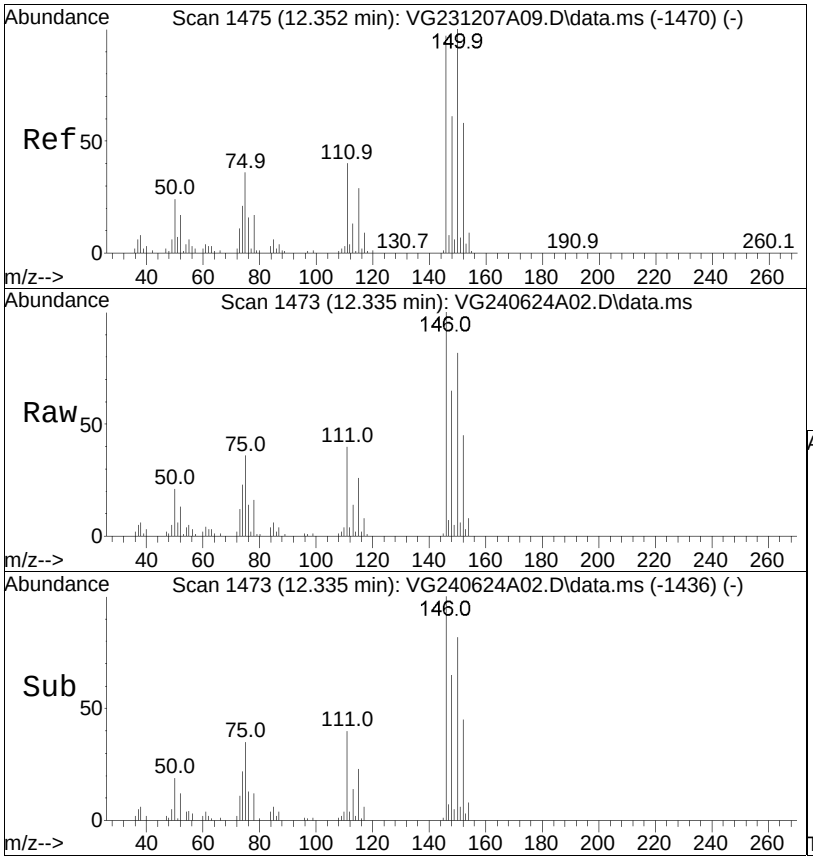


#100
1,3-Dichlorobenzene
Concen: 10.79 ug/L
RT: 12.245 min Scan# 1462
Delta R.T. -0.000 min
Lab File: VG240624A02.D
Acq: 24 Jun 2024 8:25 am

Tgt Ion:146 Resp: 266383

Ion	Ratio	Lower	Upper
146	100		
111	41.5	24.4	50.6
148	64.5	41.0	85.2

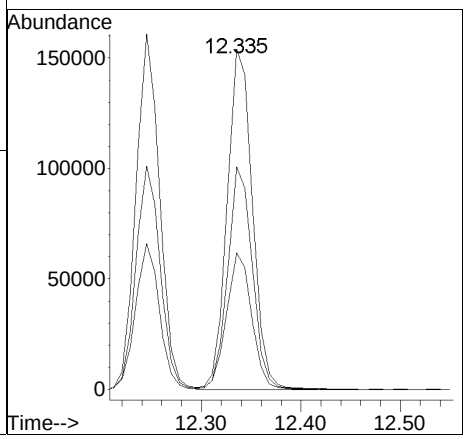


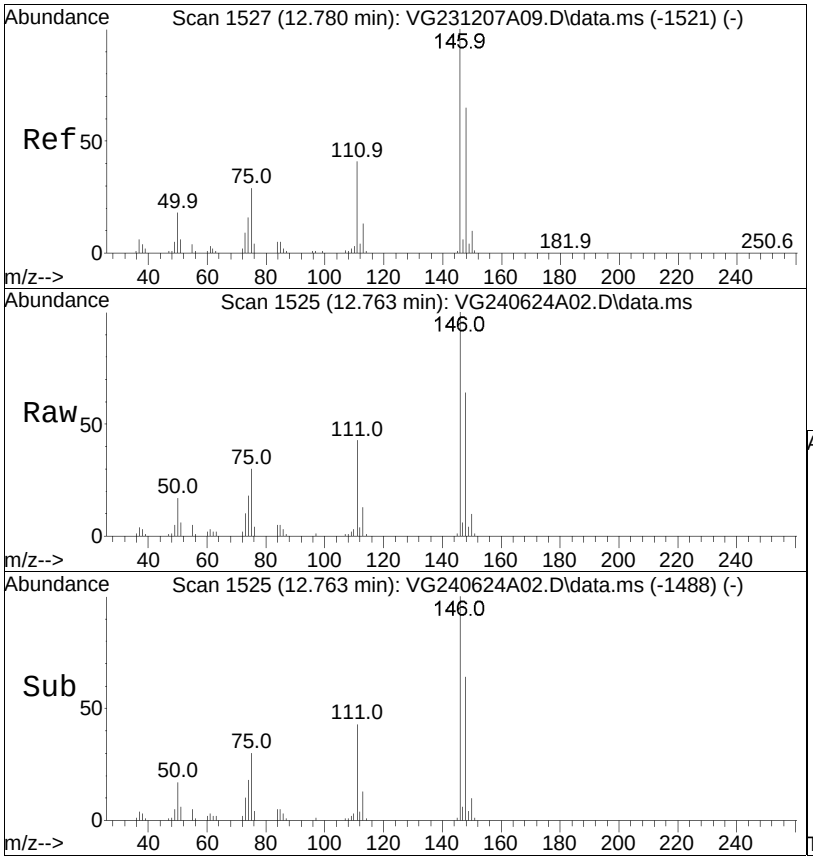


#101
1,4-Dichlorobenzene
Concen: 10.68 ug/L
RT: 12.335 min Scan# 1473
Delta R.T. 0.000 min
Lab File: VG240624A02.D
Acq: 24 Jun 2024 8:25 am

Tgt Ion:146 Resp: 272637

Ion	Ratio	Lower	Upper
146	100		
111	40.1	29.3	43.9
148	63.7	51.2	76.8

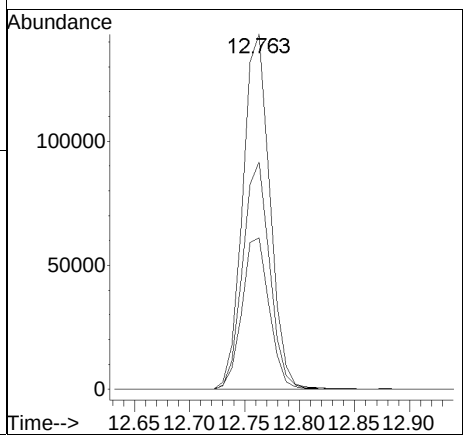


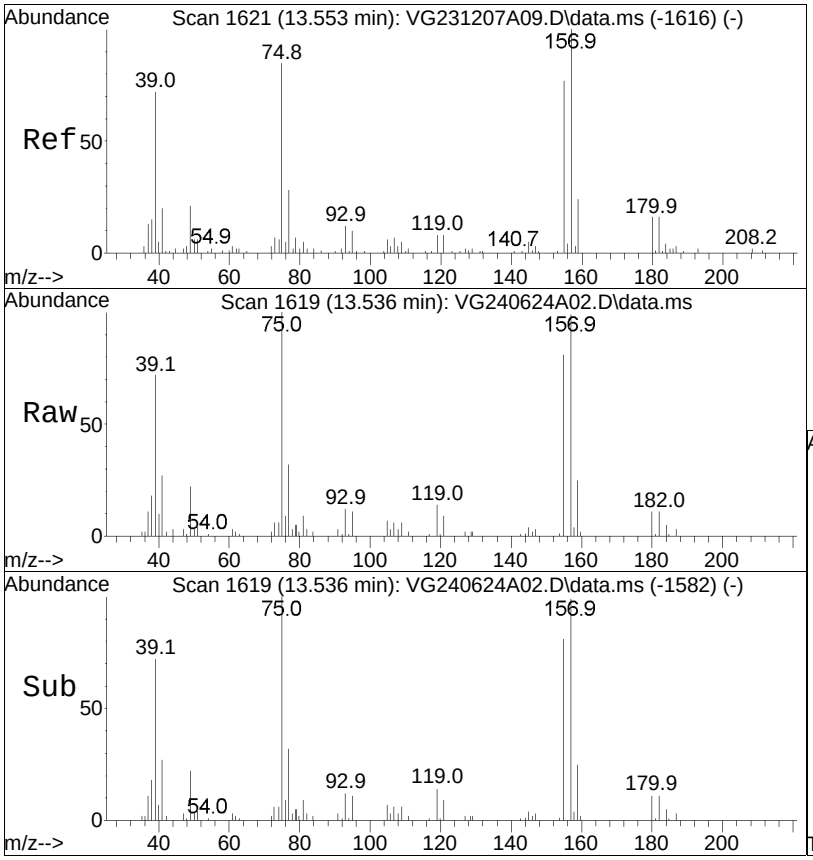


#104
1,2-Dichlorobenzene
Concen: 10.66 ug/L
RT: 12.763 min Scan# 1525
Delta R.T. 0.000 min
Lab File: VG240624A02.D
Acq: 24 Jun 2024 8:25 am

Tgt Ion:146 Resp: 247161

Ion	Ratio	Lower	Upper
146	100		
111	42.9	25.4	52.8
148	63.7	41.7	86.5

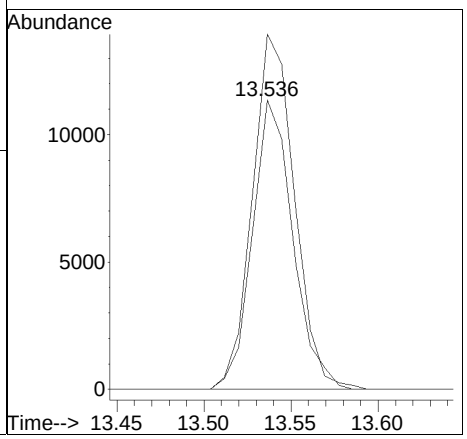


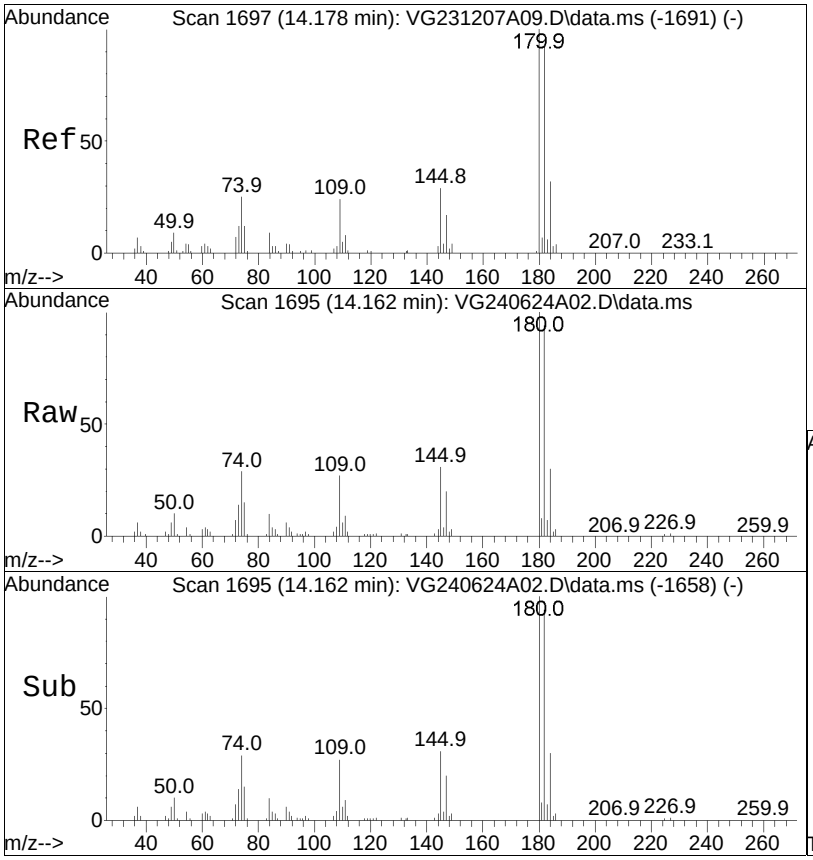


#106
1,2-Dibromo-3-chloropropane
Concen: 10.46 ug/L
RT: 13.536 min Scan# 1619
Delta R.T. 0.000 min
Lab File: VG240624A02.D
Acq: 24 Jun 2024 8:25 am

Tgt Ion:155 Resp: 18392

Ion	Ratio	Lower	Upper
155	100		
157	127.7	99.9	149.9

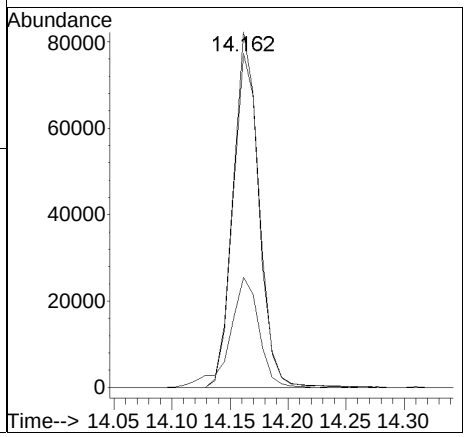


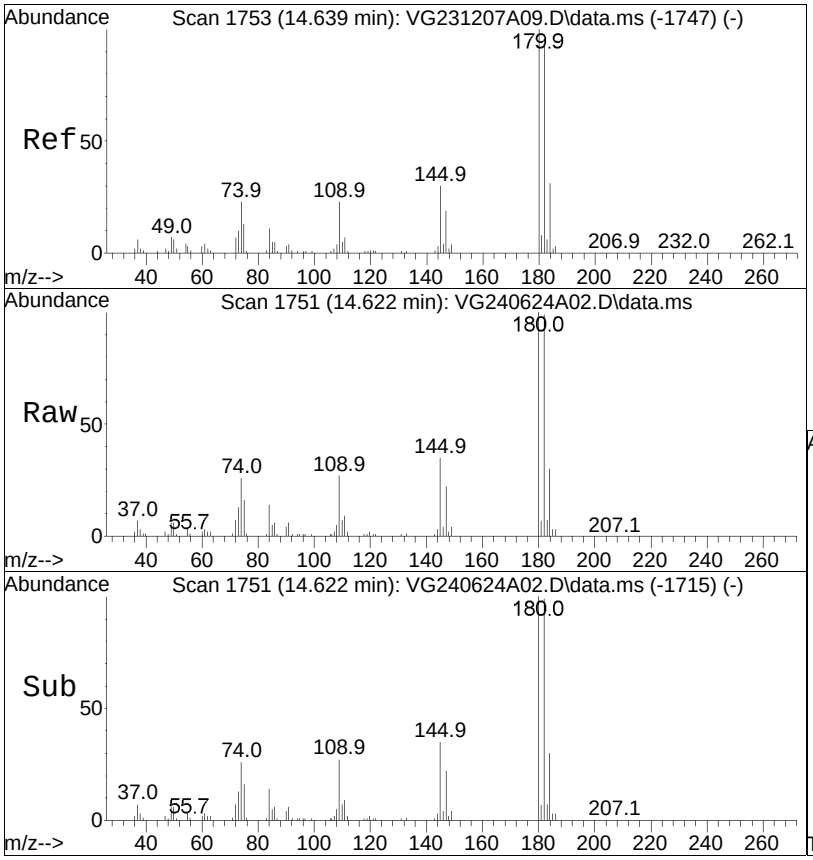


#109
1,2,4-Trichlorobenzene
Concen: 10.49 ug/L
RT: 14.162 min Scan# 1695
Delta R.T. 0.001 min
Lab File: VG240624A02.D
Acq: 24 Jun 2024 8:25 am

Tgt Ion:180 Resp: 127546

Ion	Ratio	Lower	Upper
180	100		
182	96.1	76.7	115.1
145	34.9	26.5	39.7

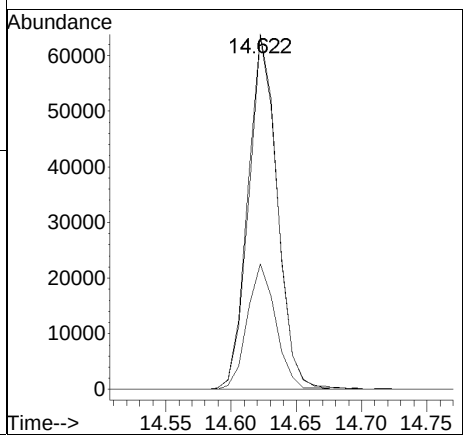




#111
1,2,3-Trichlorobenzene
Concen: 10.03 ug/L
RT: 14.622 min Scan# 1751
Delta R.T. 0.000 min
Lab File: VG240624A02.D
Acq: 24 Jun 2024 8:25 am

Tgt Ion:180 Resp: 100287

Ion	Ratio	Lower	Upper
180	100		
182	97.1	77.0	115.4
145	34.2	24.1	36.1



Quantitation Report (QT Reviewed)

Data Path : K:\VOA108\2024\240623A\
Data File : V08240623A02.d
Acq On : 23 Jun 2024 11:50 am
Operator : VOA108:PID
Sample : WG1938519-4,31,10,10
Misc : WG1938519,ICAL21127
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 23 12:23:28 2024
Quant Method : K:\VOA108\2024\240623A\V108_240514N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed May 15 09:35:21 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA108\2024\240623A\V08240623A01.d
Sub List : 8260-NY_R2 - NYSOM01.2 + NYSTARS

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Fluorobenzene	6.046	96	371760	10.000	ug/L		0.00
Standard Area 1 = 406145			Recovery = 91.53%				
59) Chlorobenzene-d5	9.569	117	278132	10.000	ug/L		0.00
Standard Area 1 = 302664			Recovery = 91.89%				
79) 1,4-Dichlorobenzene-d4	12.264	152	129461	10.000	ug/L		0.00
Standard Area 1 = 142503			Recovery = 90.85%				
System Monitoring Compounds							
36) Dibromofluoromethane	5.238	113	108376	10.631	ug/L		0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 106.31%				
43) 1,2-Dichloroethane-d4	5.763	65	117292	10.281	ug/L		0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 102.81%				
60) Toluene-d8	7.734	98	370206	10.140	ug/L		0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 101.40%				
83) 4-Bromofluorobenzene	11.058	95	129584	10.512	ug/L		0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 105.12%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.678	85	87899	10.244	ug/L		99
3) Chloromethane	1.867	50	93053	10.549	ug/L		97
4) Vinyl chloride	1.946	62	66899	7.115	ug/L		93
5) Bromomethane	2.255	94	9158	1.932	ug/L		99
6) Chloroethane	2.376	64	33157	6.293	ug/L		95
7) Trichlorofluoromethane	2.517	101	96493	7.845	ug/L		99
10) 1,1-Dichloroethene	2.999	96	59447	9.696	ug/L	#	65
11) Carbon disulfide	3.031	76	205223	9.827	ug/L		96
12) Freon-113	3.036	101	66007	10.460	ug/L		100
15) Methylene chloride	3.555	84	76110	10.403	ug/L		73
17) Acetone	3.592	43	15888	10.878	ug/L		89
18) trans-1,2-Dichloroethene	3.707	96	70992	10.219	ug/L		73
19) Methyl acetate	3.707	43	34650	8.812	ug/L	#	85
20) Methyl tert-butyl ether	3.807	73	174045	9.300	ug/L		95
23) 1,1-Dichloroethane	4.289	63	132050	9.689	ug/L		98
28) cis-1,2-Dichloroethene	4.798	96	78191	10.044	ug/L	#	68
30) Bromochloromethane	4.992	128	38379	10.200	ug/L	#	55
31) Cyclohexane	5.002	56	103554	8.479	ug/L	#	48
32) Chloroform	5.065	83	136441	10.370	ug/L		97
34) Carbon tetrachloride	5.202	117	123051	11.490	ug/L		98

Quantitation Report (QT Reviewed)

Data Path : K:\VOA108\2024\240623A\
Data File : V08240623A02.d
Acq On : 23 Jun 2024 11:50 am
Operator : VOA108:PID
Sample : WG1938519-4,31,10,10
Misc : WG1938519,ICAL21127
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 23 12:23:28 2024
Quant Method : K:\VOA108\2024\240623A\V108_240514N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed May 15 09:35:21 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA108\2024\240623A\V08240623A01.d
Sub List : 8260-NY_R2 - NYSOM01.2 + NYSTARS

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
37) 1,1,1-Trichloroethane	5.264	97	126825	11.026	ug/L	#	90
39) 2-Butanone	5.348	43	22766	8.979	ug/L		97
41) Benzene	5.631	78	269261	9.341	ug/L		91
44) 1,2-Dichloroethane	5.831	62	93518	9.667	ug/L		95
47) Methyl cyclohexane	6.219	83	110877	9.696	ug/L	#	68
48) Trichloroethene	6.224	95	79918	10.502	ug/L		95
51) 1,2-Dichloropropane	6.764	63	70681	9.236	ug/L		95
54) Bromodichloromethane	6.837	83	107515	10.221	ug/L		99
57) 1,4-Dioxane	7.047	88	25346	582.349	ug/L	#	73
58) cis-1,3-Dichloropropene	7.524	75	119004	9.755	ug/L		99
61) Toluene	7.792	92	176838	9.729	ug/L		98
62) 4-Methyl-2-pentanone	8.216	58	17097	8.568	ug/L	#	70
63) Tetrachloroethene	8.237	166	77457	10.295	ug/L		95
65) trans-1,3-Dichloropropene	8.269	75	105495	9.701	ug/L		97
68) 1,1,2-Trichloroethane	8.452	83	48367	9.778	ug/L		92
69) Chlorodibromomethane	8.667	129	81238	10.493	ug/L		99
71) 1,2-Dibromoethane	8.945	107	60624	10.482	ug/L		98
72) 2-Hexanone	9.223	43	33238	7.960	ug/L	#	90
73) Chlorobenzene	9.595	112	215155	10.656	ug/L		100
74) Ethylbenzene	9.632	91	346524	10.050	ug/L		98
76) p/m Xylene	9.821	106	264979	19.580	ug/L		98
77) o Xylene	10.355	106	252588	19.046	ug/L		95
78) Styrene	10.424	104	423802	19.010	ug/L		89
80) Bromoform	10.445	173	46075	10.686	ug/L		95
82) Isopropylbenzene	10.738	105	348164	10.849	ug/L		96
87) 1,1,2,2-Tetrachloroethane	11.299	83	68384	10.556	ug/L		98
100) 1,3-Dichlorobenzene	12.185	146	168729	10.829	ug/L		99
101) 1,4-Dichlorobenzene	12.280	146	169316	10.785	ug/L		98
104) 1,2-Dichlorobenzene	12.699	146	159533	10.862	ug/L		98
106) 1,2-Dibromo-3-chloropr...	13.475	155	10876	10.986	ug/L		88
109) 1,2,4-Trichlorobenzene	14.104	180	117312	11.085	ug/L		97
111) 1,2,3-Trichlorobenzene	14.566	180	104875	11.010	ug/L		98

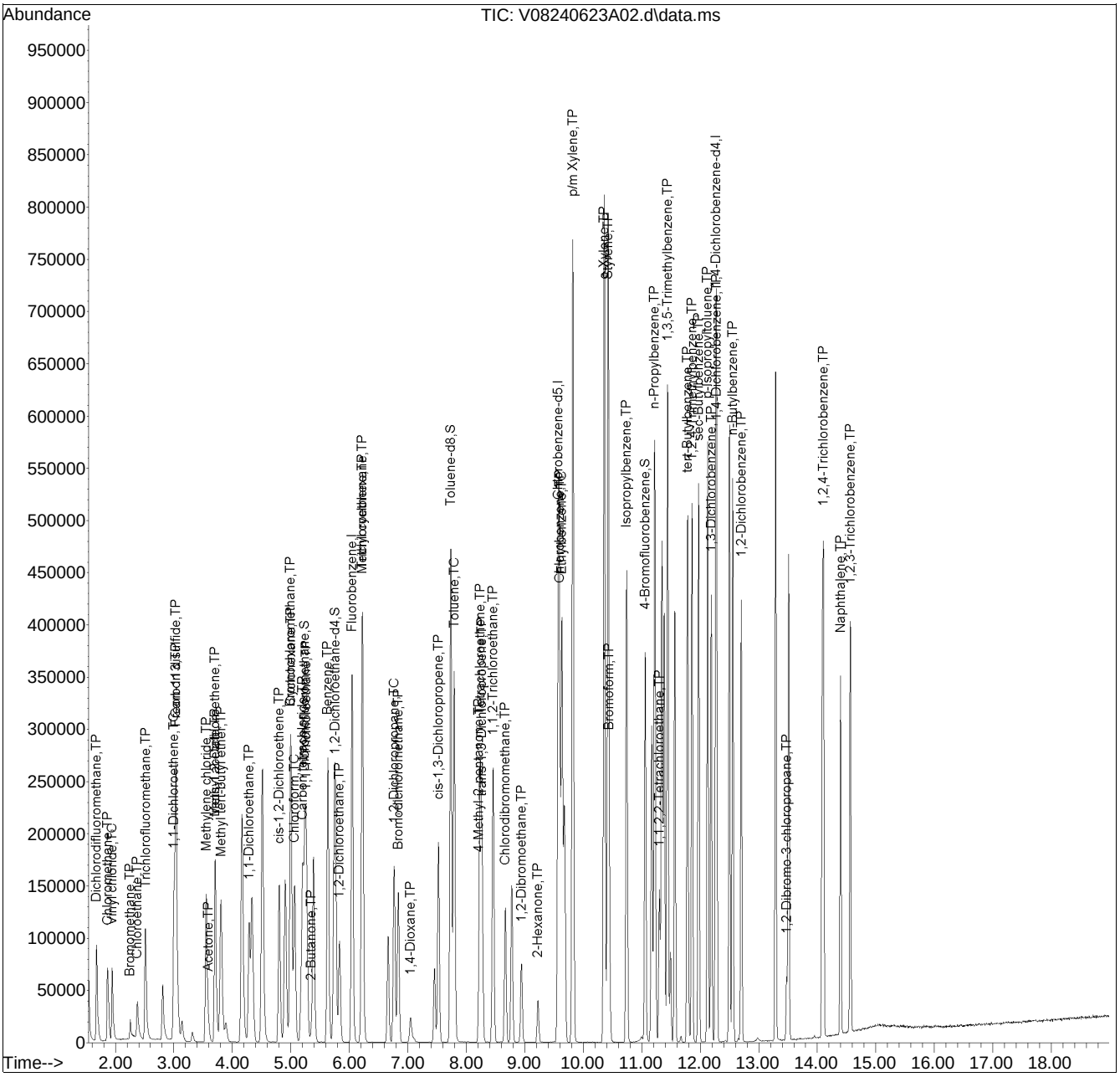
(#) = qualifier out of range (m) = manual integration (+) = signals summed

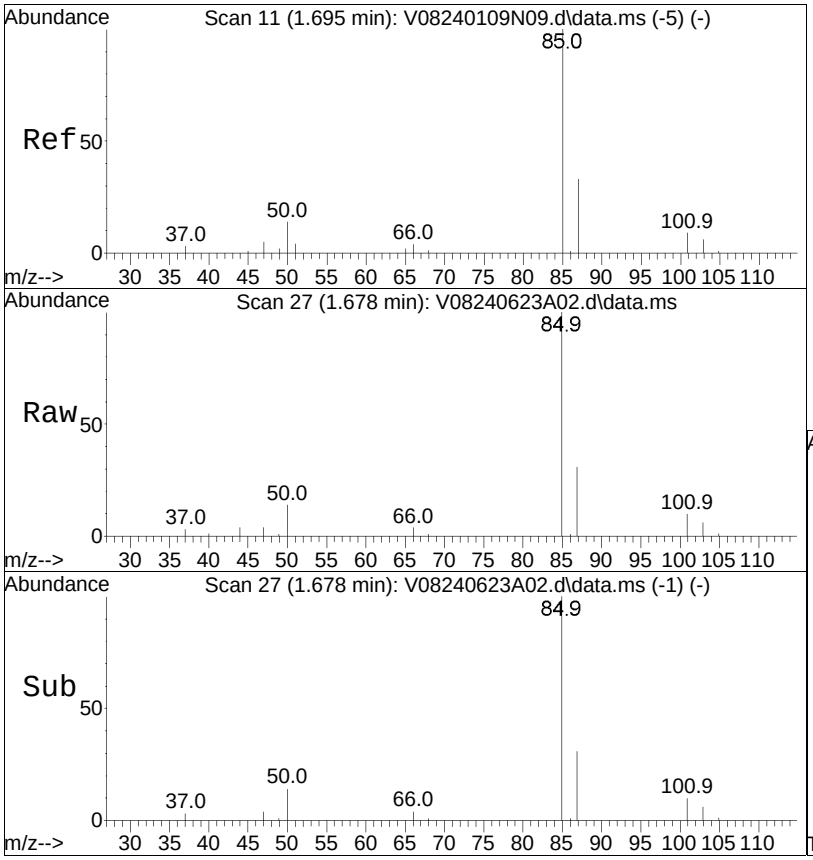
Quantitation Report (QT Reviewed)

Data Path : K:\VOA108\2024\240623A\
Data File : V08240623A02.d
Acq On : 23 Jun 2024 11:50 am
Operator : VOA108:PID
Sample : WG1938519-4,31,10,10
Misc : WG1938519,ICAL21127
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 23 12:23:28 2024
Quant Method : K:\VOA108\2024\240623A\V108_240514N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed May 15 09:35:21 2024
Response via : Initial Calibration

Sub List : 8260-NY_R2 - NYSOM01.2 + NYSTARS0623A01.d•

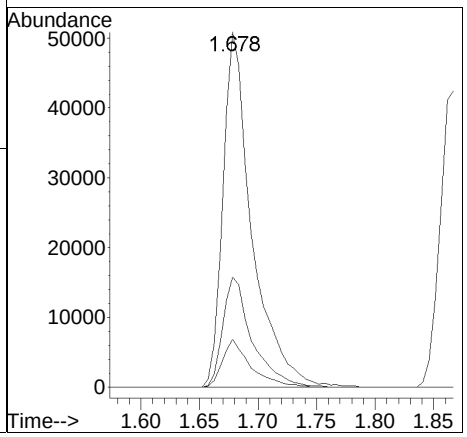


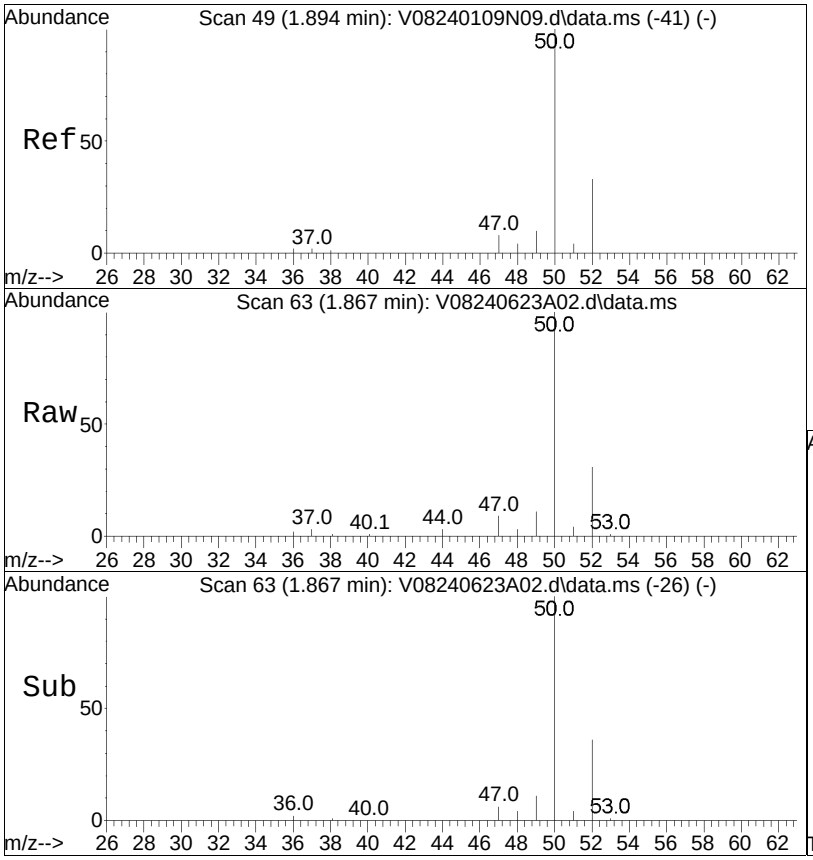


#2
Dichlorodifluoromethane
Concen: 10.24 ug/L
RT: 1.678 min Scan# 27
Delta R.T. 0.000 min
Lab File: V08240623A02.d
Acq: 23 Jun 2024 11:50 am

Tgt Ion: 85 Resp: 87899

Ion	Ratio	Lower	Upper
85	100		
87	31.4	21.0	43.6
50	13.3	8.9	18.5

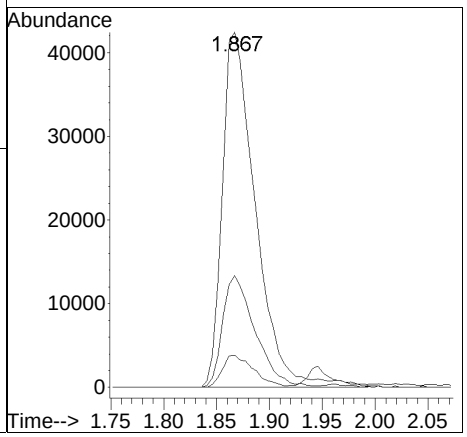


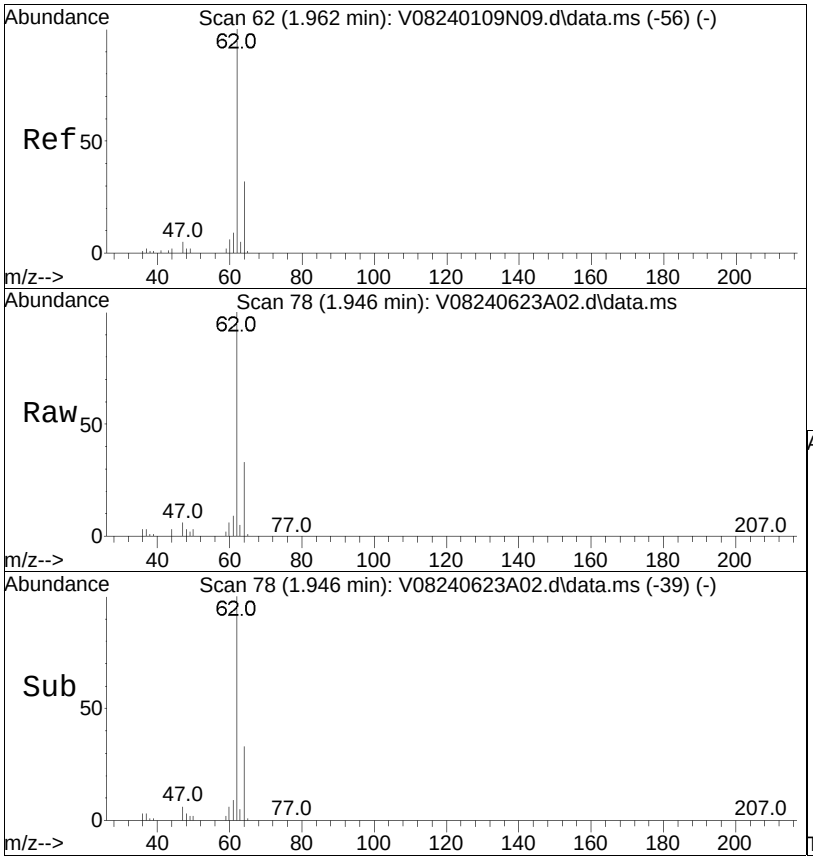


#3
Chloromethane
Concen: 10.55 ug/L
RT: 1.867 min Scan# 63
Delta R.T. -0.005 min
Lab File: V08240623A02.d
Acq: 23 Jun 2024 11:50 am

Tgt Ion: 50 Resp: 93053

Ion	Ratio	Lower	Upper
50	100		
52	30.8	12.9	52.9
47	8.6	0.0	28.3

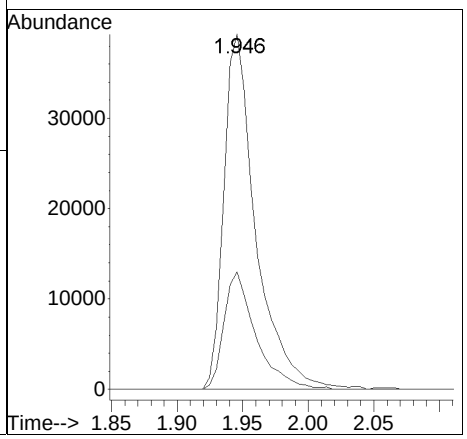


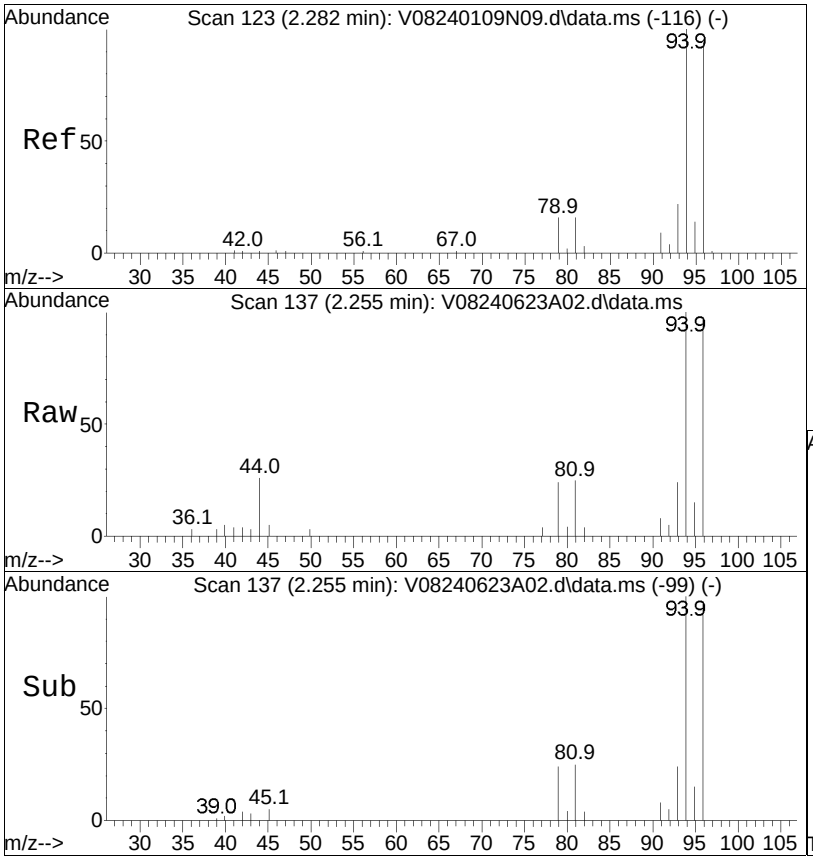


#4
Vinyl chloride
Concen: 7.12 ug/L
RT: 1.946 min Scan# 78
Delta R.T. 0.005 min
Lab File: V08240623A02.d
Acq: 23 Jun 2024 11:50 am

Tgt Ion: 62 Resp: 66899

Ion	Ratio	Lower	Upper
62	100		
64	33.0	9.1	49.1

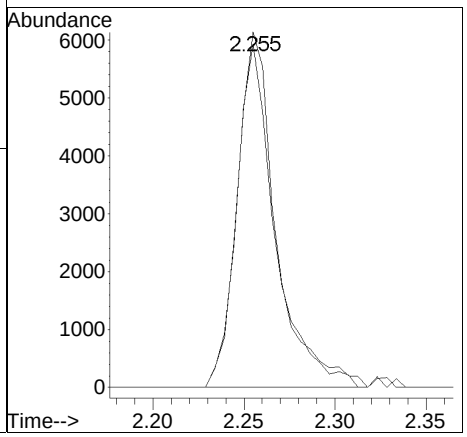


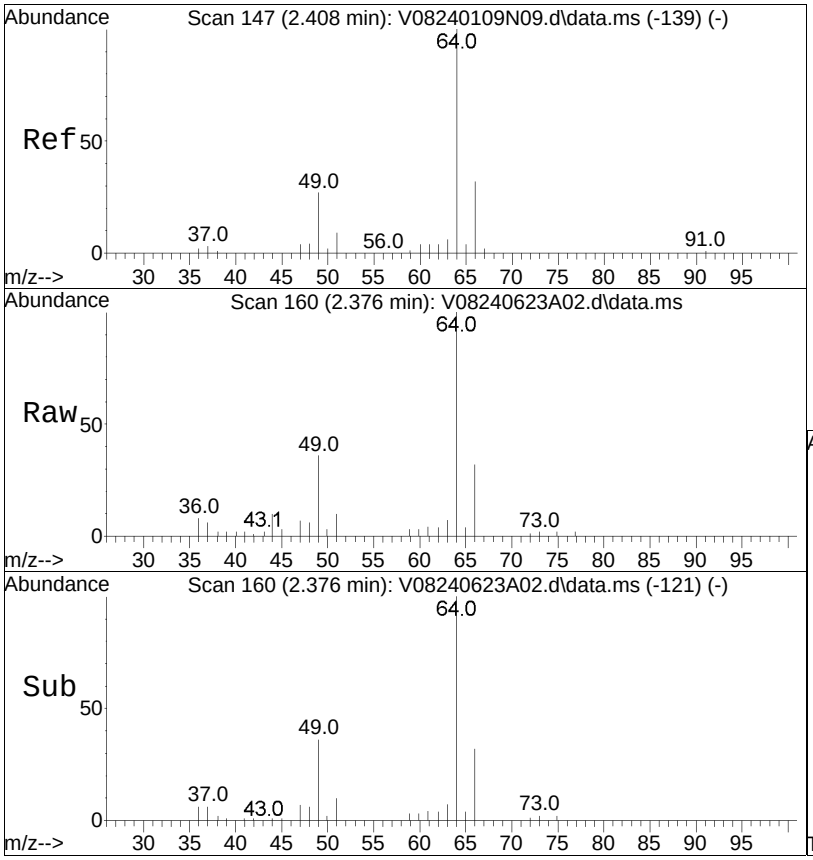


#5
Bromomethane
Concen: 1.93 ug/L
RT: 2.255 min Scan# 137
Delta R.T. -0.000 min
Lab File: V08240623A02.d
Acq: 23 Jun 2024 11:50 am

Tgt Ion: 94 Resp: 9158

Ion	Ratio	Lower	Upper
94	100		
96	95.0	75.6	115.6

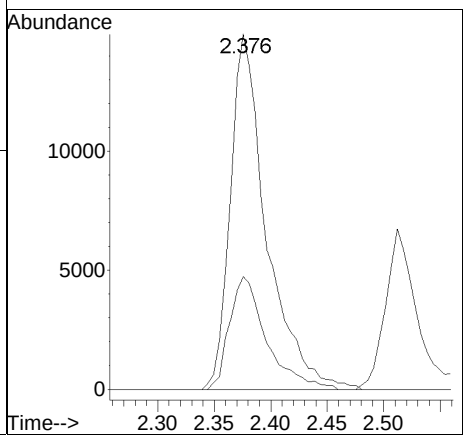


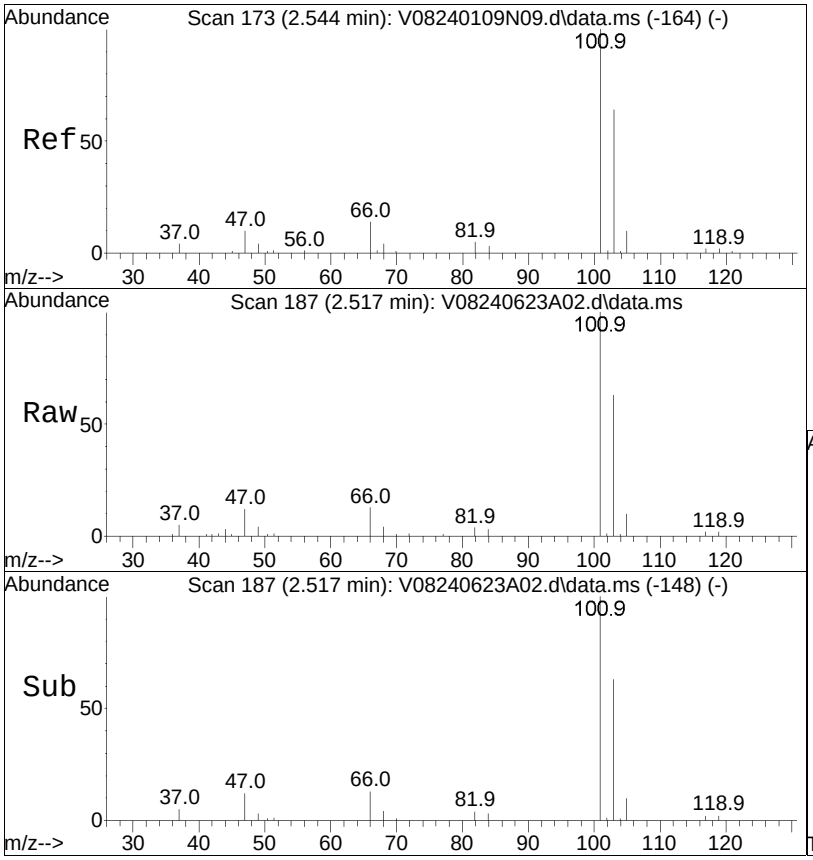


#6
Chloroethane
Concen: 6.29 ug/L
RT: 2.376 min Scan# 160
Delta R.T. 0.006 min
Lab File: V08240623A02.d
Acq: 23 Jun 2024 11:50 am

Tgt Ion: 64 Resp: 33157

Ion	Ratio	Lower	Upper
64	100		
66	32.5	9.8	49.8

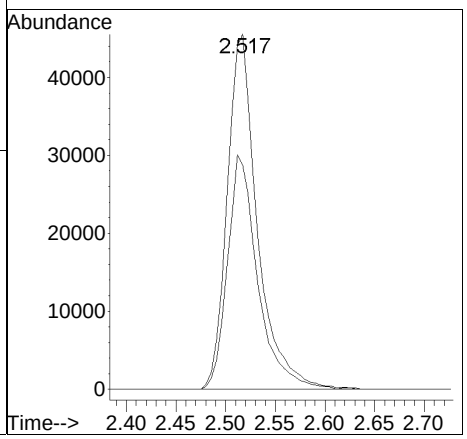


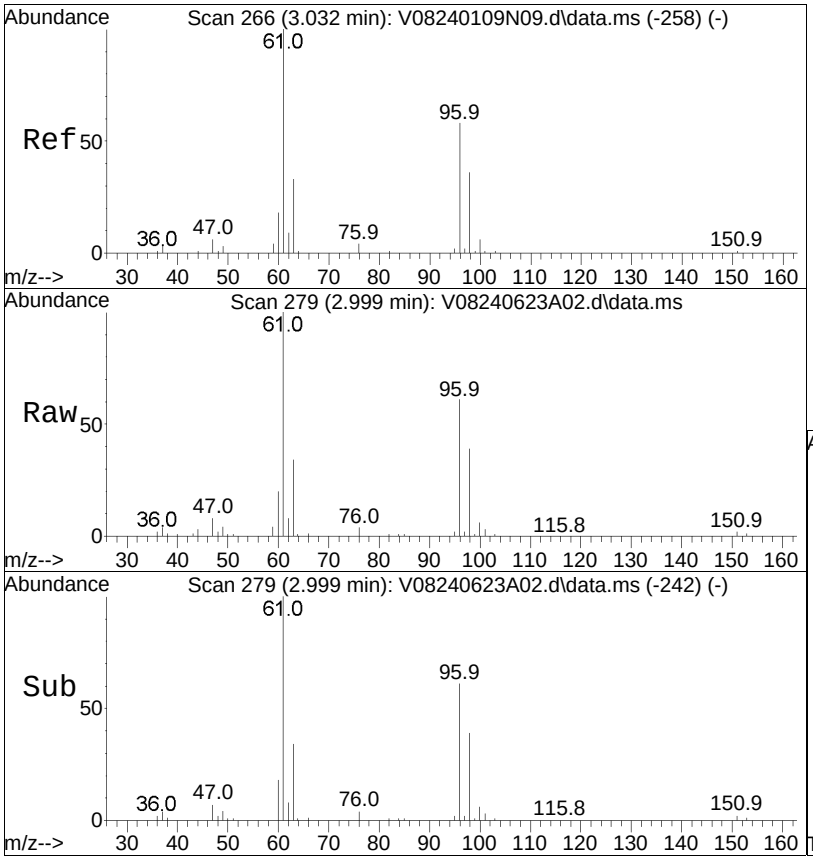


#7
Trichlorofluoromethane
Concen: 7.85 ug/L
RT: 2.517 min Scan# 187
Delta R.T. 0.005 min
Lab File: V08240623A02.d
Acq: 23 Jun 2024 11:50 am

Tgt Ion:101 Resp: 96493

Ion	Ratio	Lower	Upper
101	100		
103	66.1	53.8	80.6

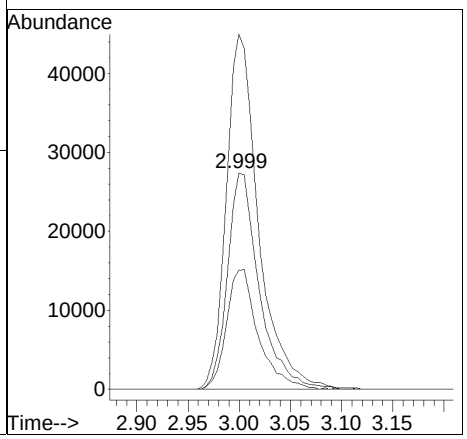


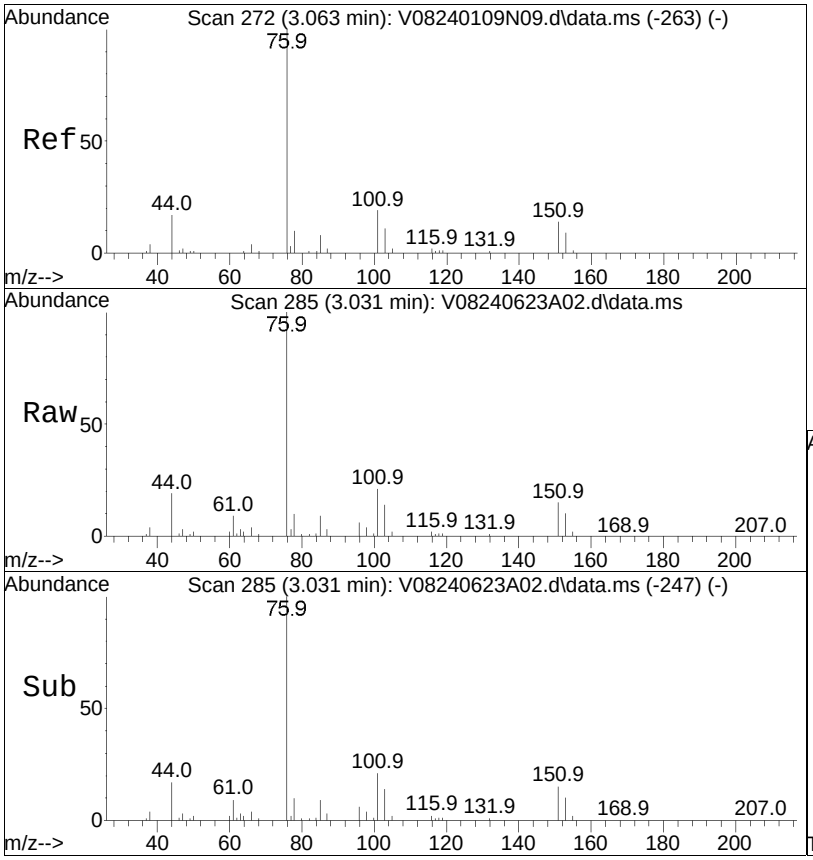


#10
1,1-Dichloroethene
Concen: 9.70 ug/L
RT: 2.999 min Scan# 279
Delta R.T. -0.006 min
Lab File: V08240623A02.d
Acq: 23 Jun 2024 11:50 am

Tgt Ion: 96 Resp: 59447

Ion	Ratio	Lower	Upper
96	100		
61	166.3	186.1	279.1#
63	55.3	57.6	86.4#

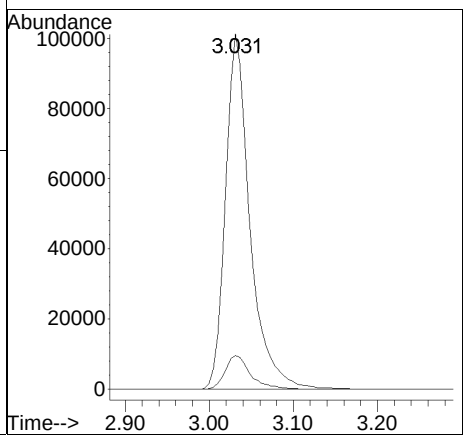


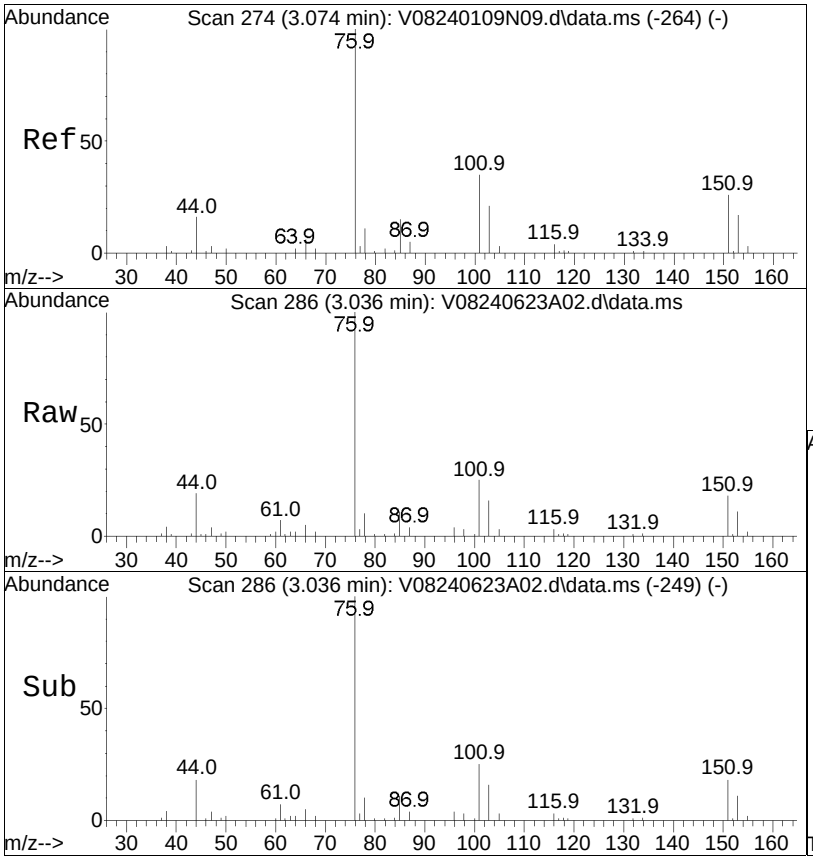


#11
Carbon disulfide
Concen: 9.83 ug/L
RT: 3.031 min Scan# 285
Delta R.T. -0.000 min
Lab File: V08240623A02.d
Acq: 23 Jun 2024 11:50 am

Tgt Ion: 76 Resp: 205223

Ion	Ratio	Lower	Upper
76	100		
78	10.0	5.7	11.7

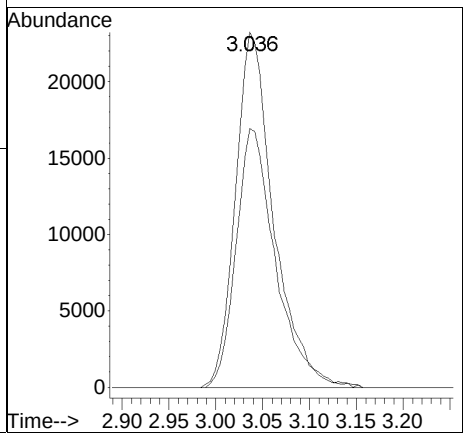


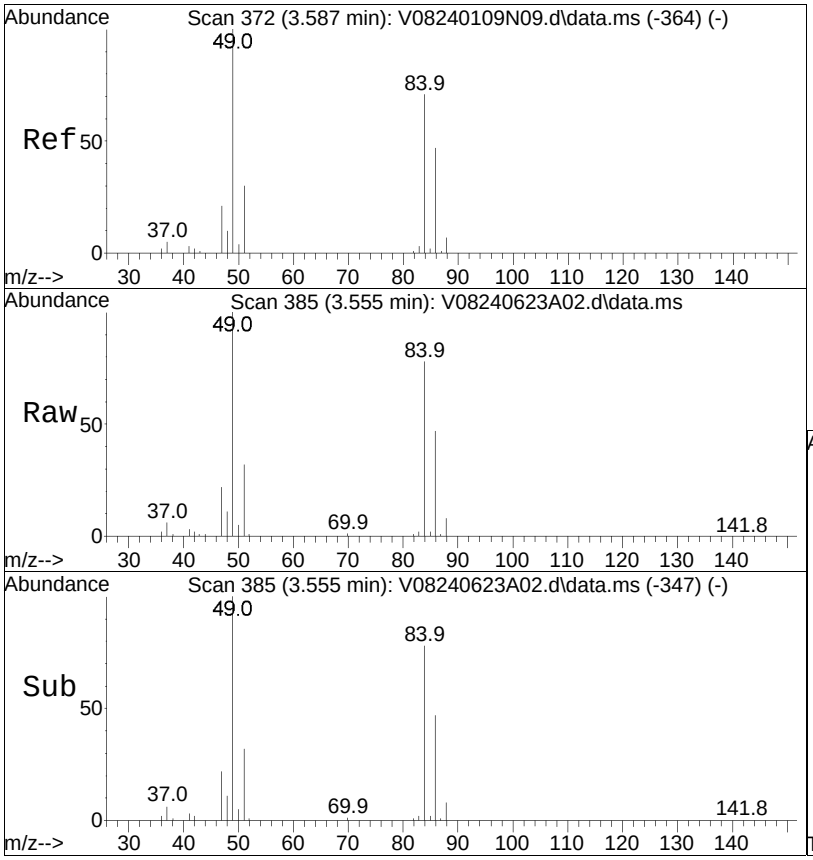


#12
Freon-113
Concen: 10.46 ug/L
RT: 3.036 min Scan# 286
Delta R.T. -0.006 min
Lab File: V08240623A02.d
Acq: 23 Jun 2024 11:50 am

Tgt Ion:101 Resp: 66007

Ion	Ratio	Lower	Upper
101	100		
151	75.1	59.8	89.8

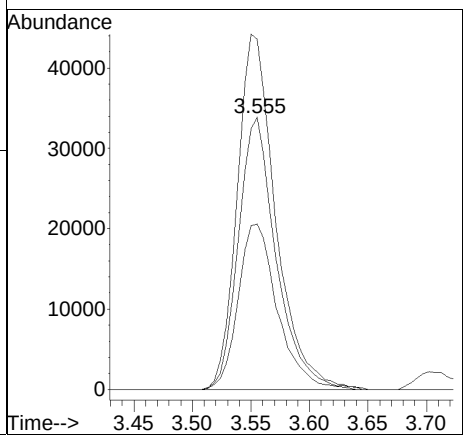


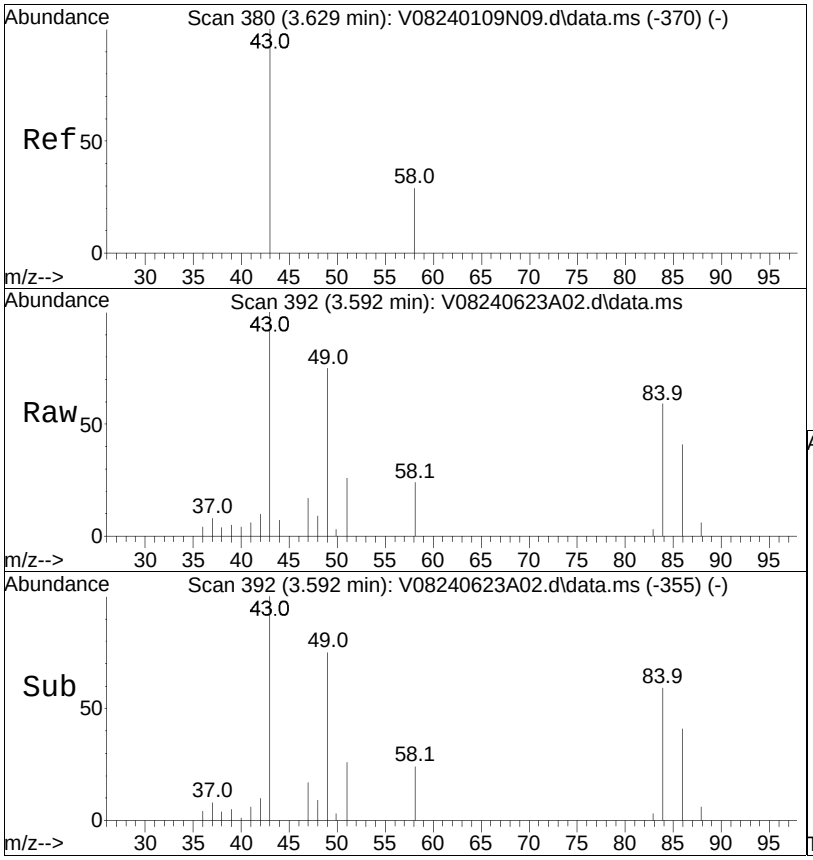


#15
Methylene chloride
Concen: 10.40 ug/L
RT: 3.555 min Scan# 385
Delta R.T. 0.000 min
Lab File: V08240623A02.d
Acq: 23 Jun 2024 11:50 am

Tgt Ion: 84 Resp: 76110

Ion	Ratio	Lower	Upper
84	100		
86	63.1	40.4	83.8
49	132.7	120.0	249.2

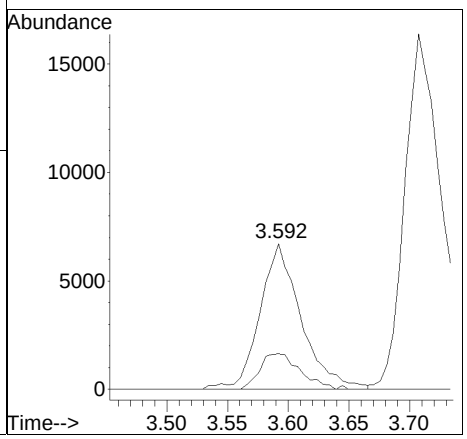


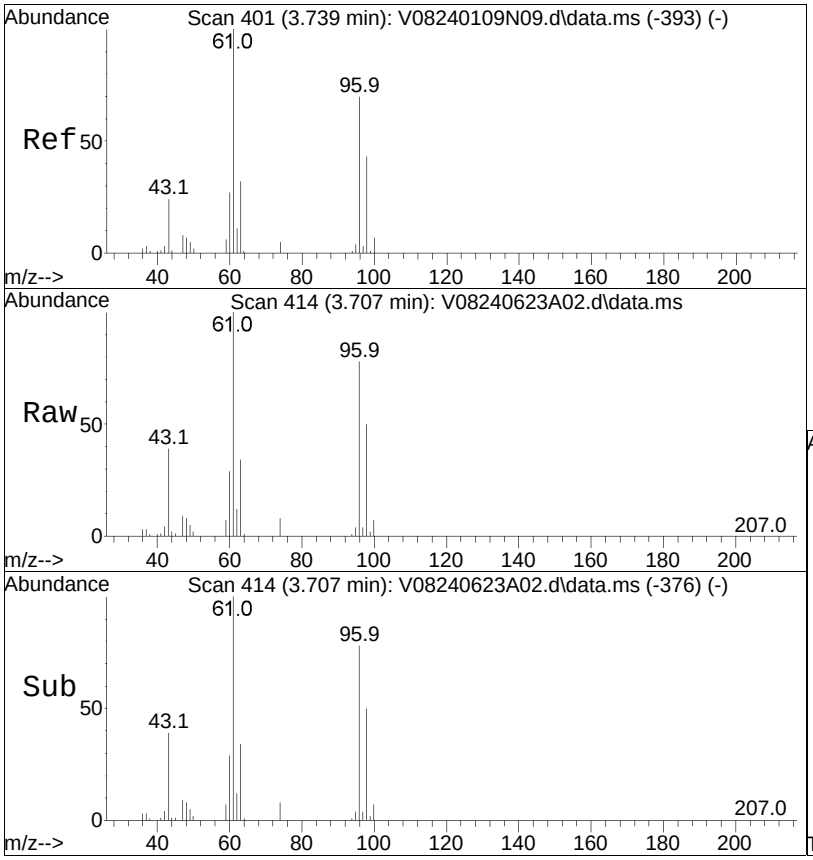


#17
Acetone
Concen: 10.88 ug/L
RT: 3.592 min Scan# 392
Delta R.T. -0.005 min
Lab File: V08240623A02.d
Acq: 23 Jun 2024 11:50 am

Tgt Ion: 43 Resp: 15888

Ion	Ratio	Lower	Upper
43	100		
58	24.4	24.2	36.4

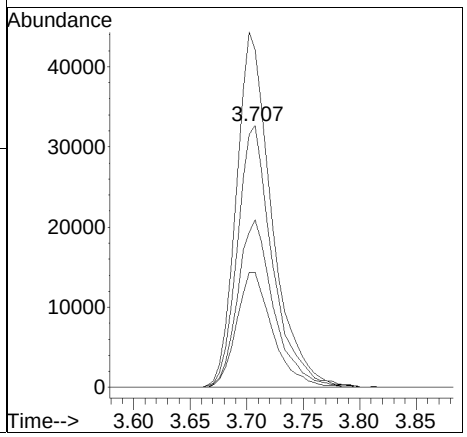


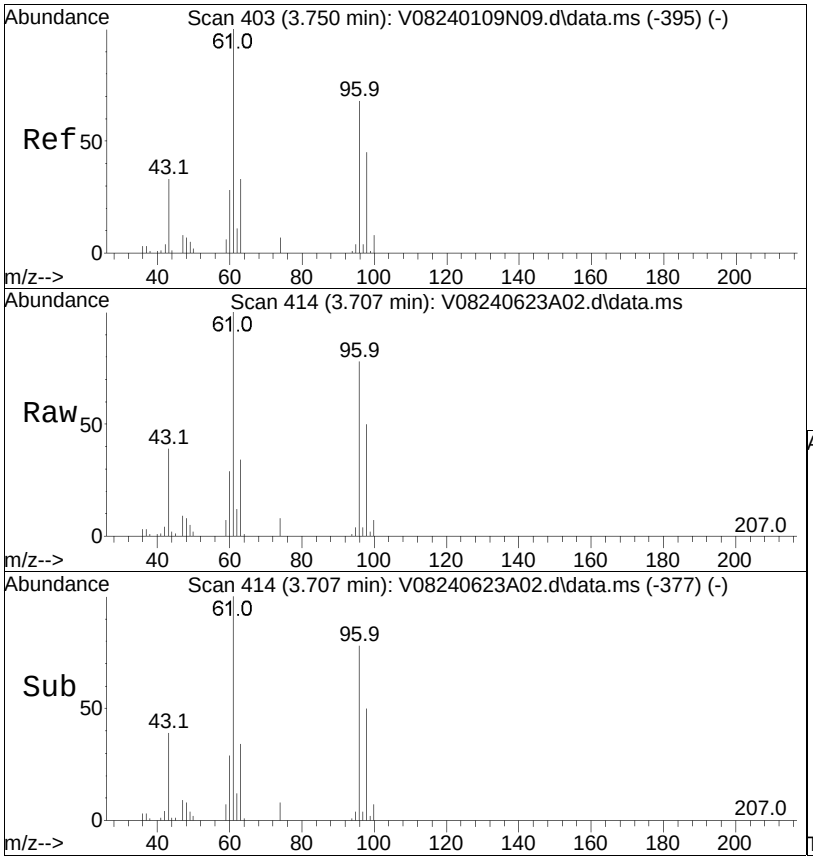


#18
trans-1,2-Dichloroethene
Concen: 10.22 ug/L
RT: 3.707 min Scan# 414
Delta R.T. 0.000 min
Lab File: V08240623A02.d
Acq: 23 Jun 2024 11:50 am

Tgt Ion: 96 Resp: 70992

Ion	Ratio	Lower	Upper
96	100		
61	136.5	124.0	257.6
98	65.6	41.2	85.6
63	45.1	38.4	79.7

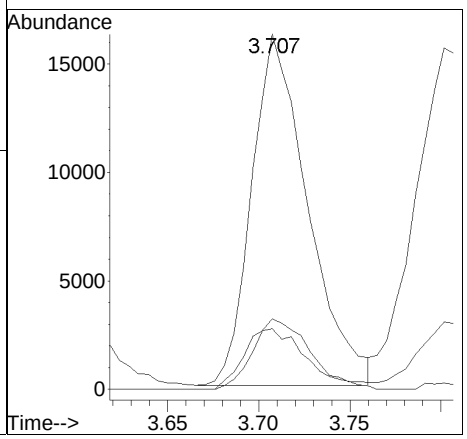


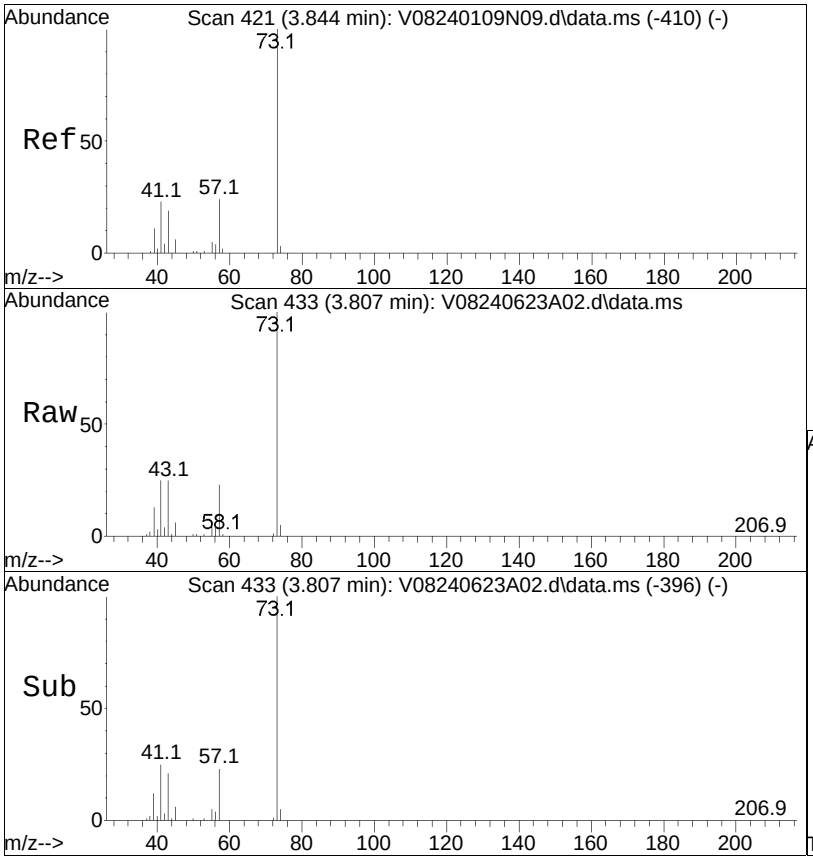


#19
Methyl acetate
Concen: 8.81 ug/L
RT: 3.707 min Scan# 414
Delta R.T. -0.006 min
Lab File: V08240623A02.d
Acq: 23 Jun 2024 11:50 am

Tgt Ion: 43 Resp: 34650

Ion	Ratio	Lower	Upper
43	100		
74	21.0	14.2	21.4
59	19.2	5.0	7.6#

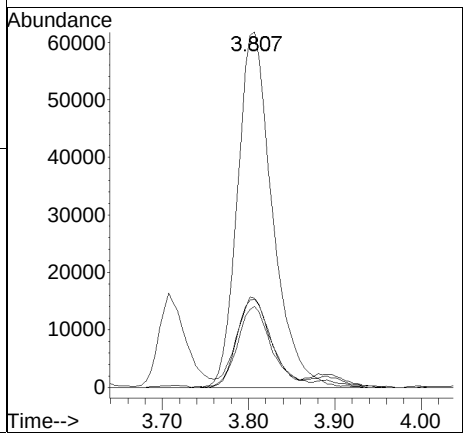


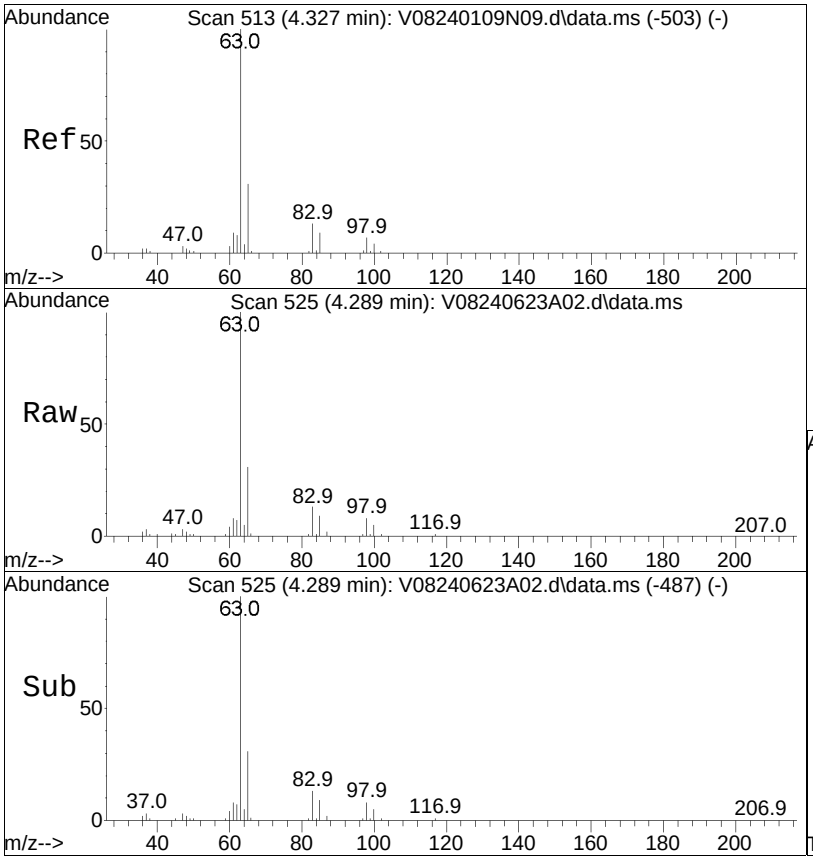


#20
Methyl tert-butyl ether
Concen: 9.30 ug/L
RT: 3.807 min Scan# 433
Delta R.T. -0.005 min
Lab File: V08240623A02.d
Acq: 23 Jun 2024 11:50 am

Tgt Ion: 73 Resp: 174045

Ion	Ratio	Lower	Upper
73	100		
57	22.2	17.5	36.3
43	25.1	15.3	31.9
41	24.7	15.3	31.7

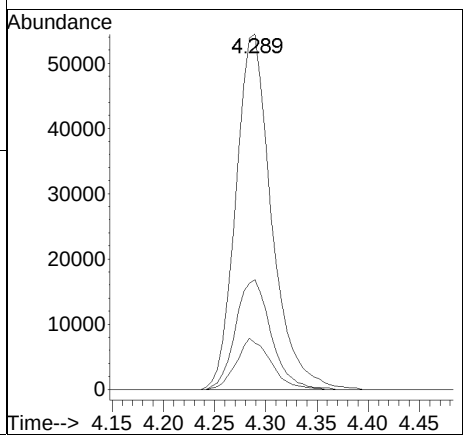


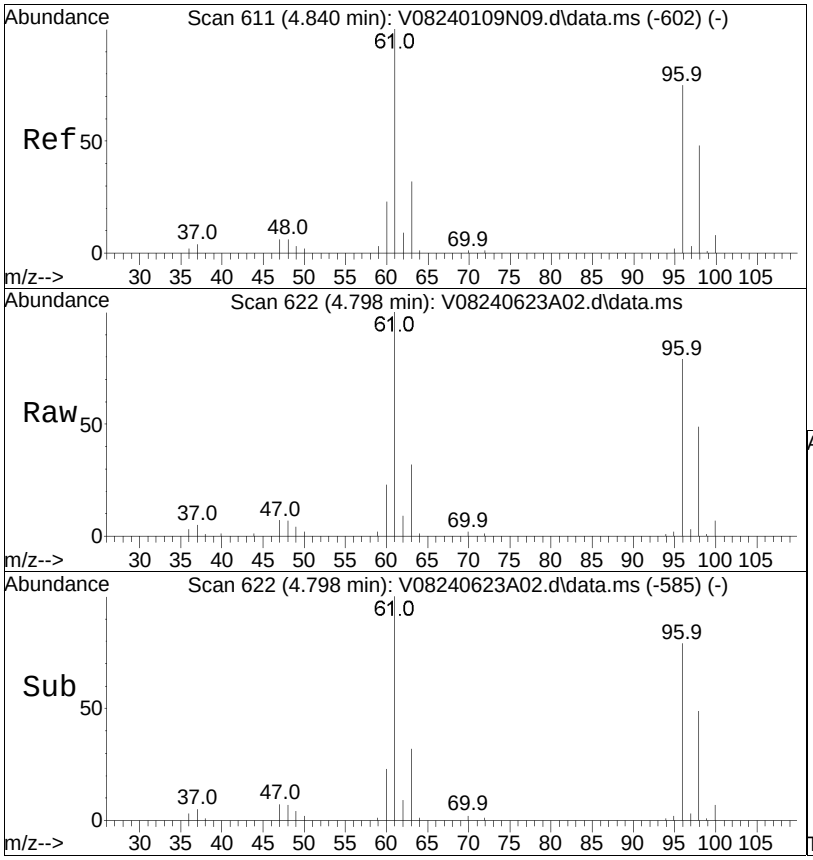


#23
1,1-Dichloroethane
Concen: 9.69 ug/L
RT: 4.289 min Scan# 525
Delta R.T. 0.000 min
Lab File: V08240623A02.d
Acq: 23 Jun 2024 11:50 am

Tgt Ion: 63 Resp: 132050

Ion	Ratio	Lower	Upper
63	100		
65	30.7	11.0	51.0
83	13.9	0.0	31.8

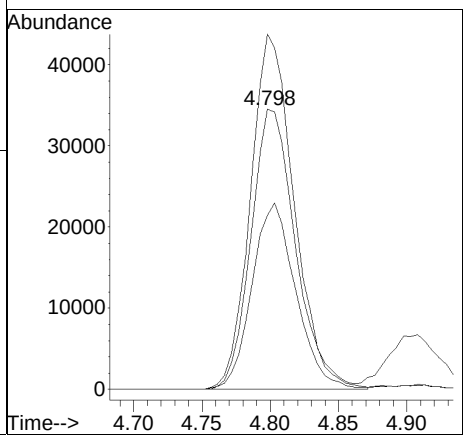


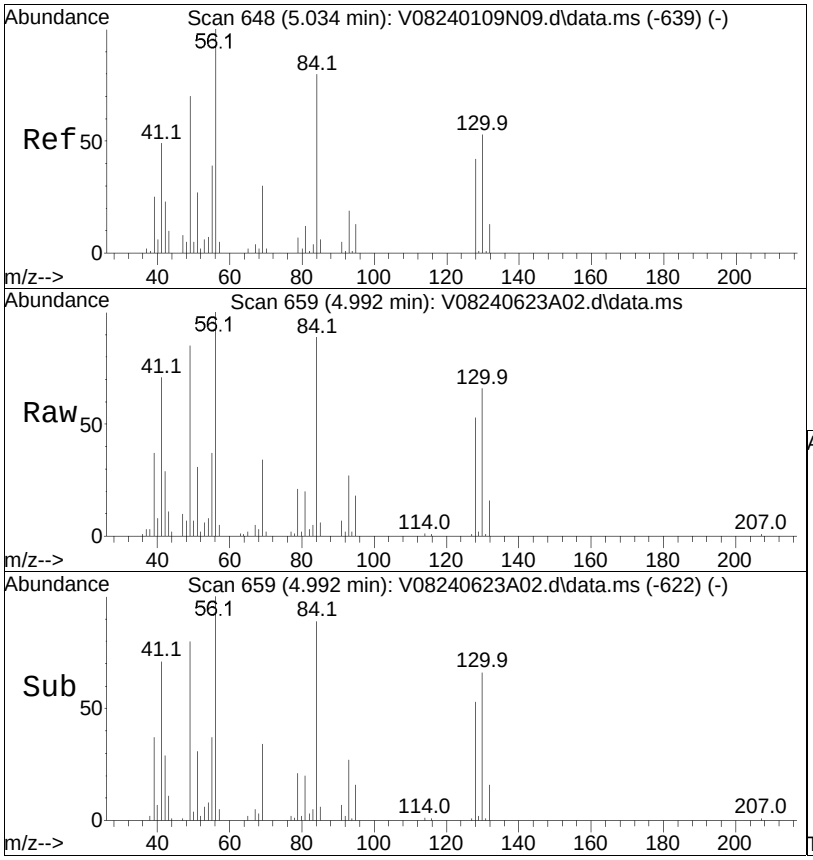


#28
cis-1,2-Dichloroethene
Concen: 10.04 ug/L
RT: 4.798 min Scan# 622
Delta R.T. -0.005 min
Lab File: V08240623A02.d
Acq: 23 Jun 2024 11:50 am

Tgt Ion: 96 Resp: 78191

Ion	Ratio	Lower	Upper
96	100		
61	124.7	149.4	224.2#
98	65.7	53.4	80.2

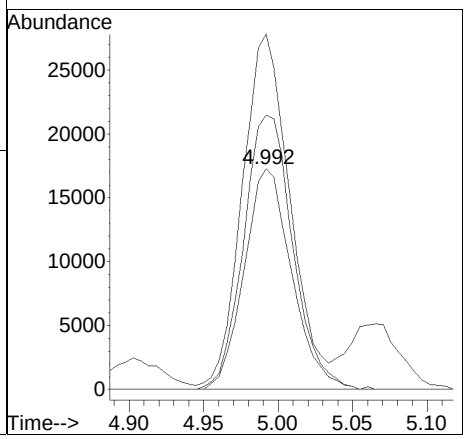


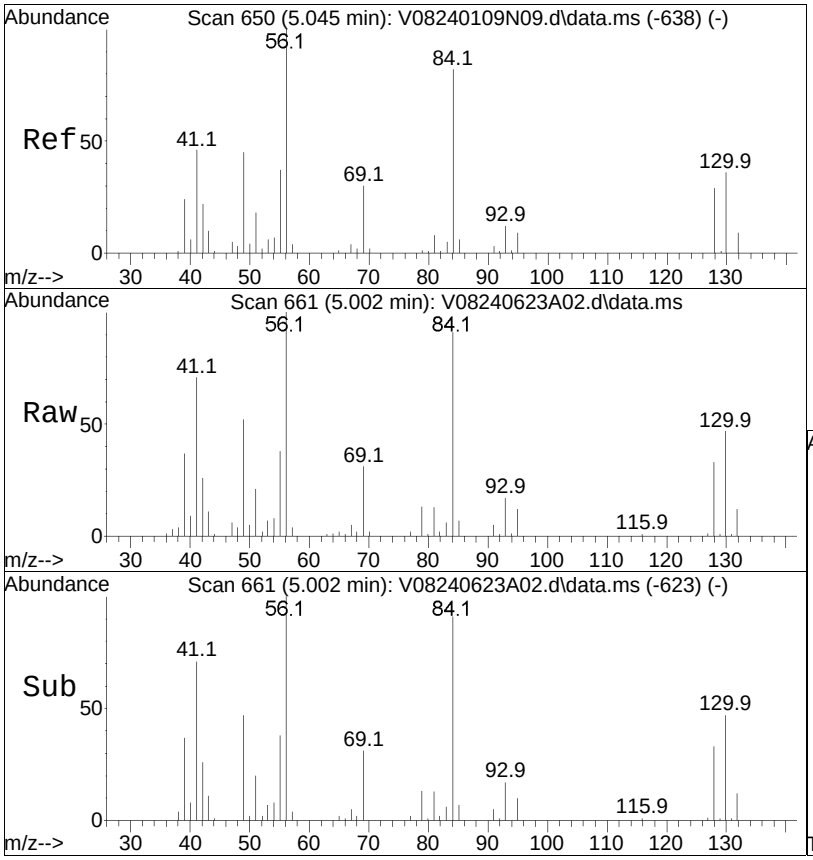


#30
Bromochloromethane
Concen: 10.20 ug/L
RT: 4.992 min Scan# 659
Delta R.T. -0.005 min
Lab File: V08240623A02.d
Acq: 23 Jun 2024 11:50 am

Tgt Ion:128 Resp: 38379

Ion	Ratio	Lower	Upper
128	100		
49	161.4	223.0	334.4#
130	128.7	111.4	167.0

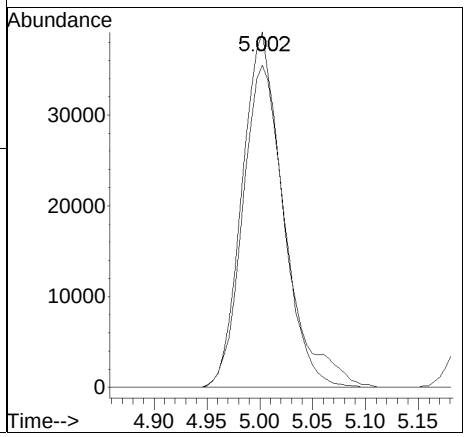


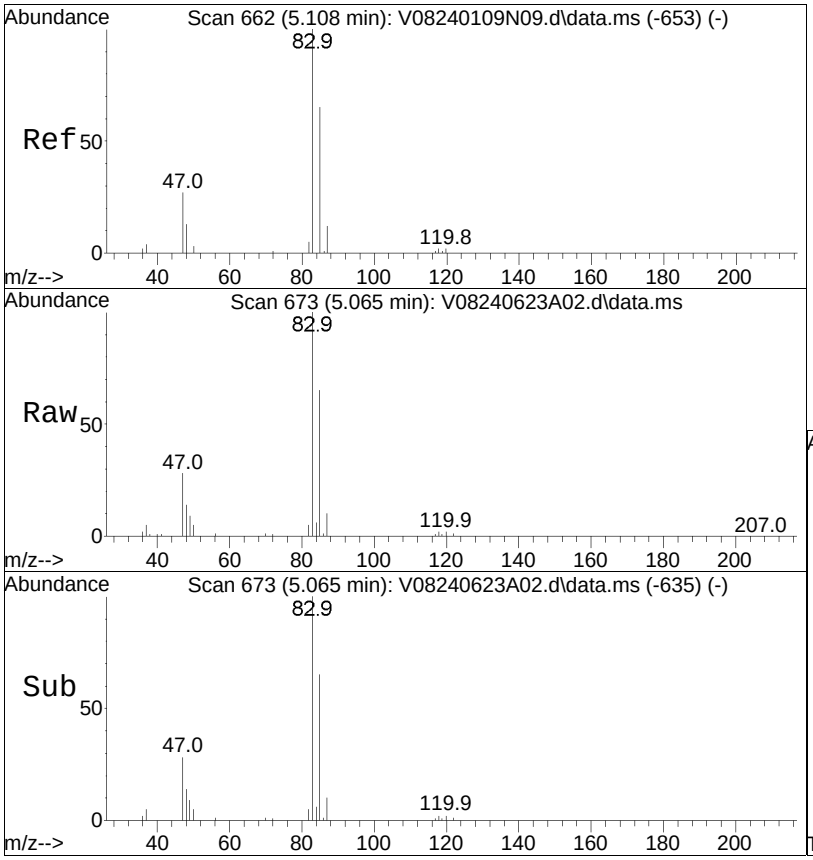


#31
Cyclohexane
Concen: 8.48 ug/L
RT: 5.002 min Scan# 661
Delta R.T. 0.000 min
Lab File: V08240623A02.d
Acq: 23 Jun 2024 11:50 am

Tgt Ion: 56 Resp: 103554

Ion	Ratio	Lower	Upper
56	100		
84	97.9	38.4	79.8#

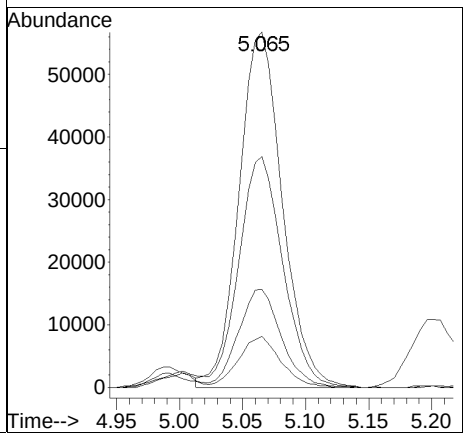


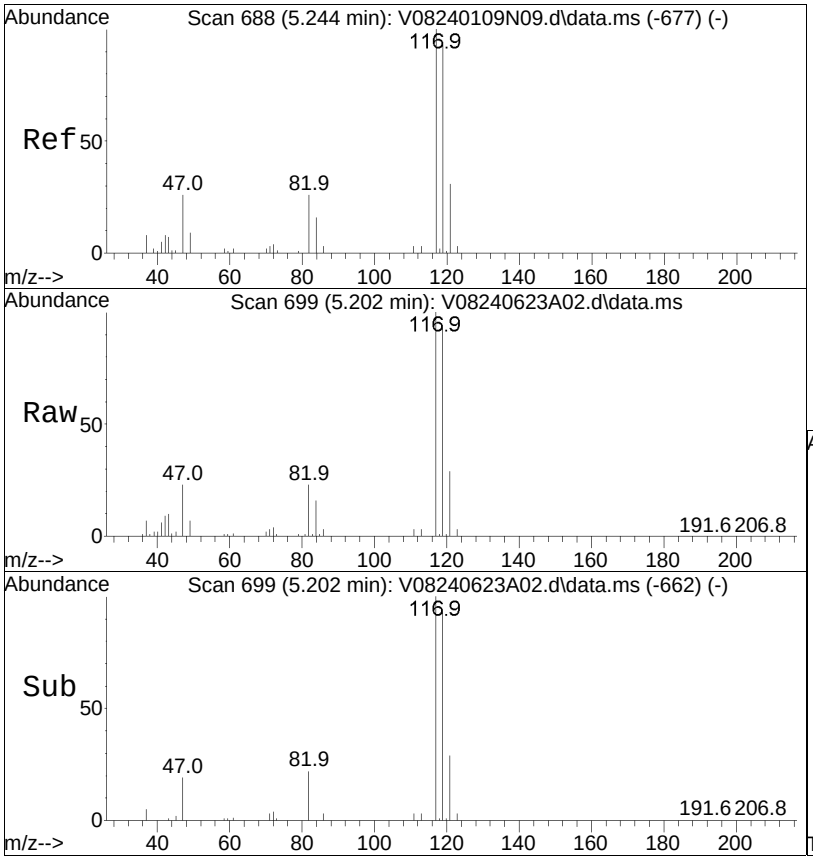


#32
Chloroform
Concen: 10.37 ug/L
RT: 5.065 min Scan# 673
Delta R.T. 0.000 min
Lab File: V08240623A02.d
Acq: 23 Jun 2024 11:50 am

Tgt Ion: 83 Resp: 136441

Ion	Ratio	Lower	Upper
83	100		
85	65.4	41.5	86.1
47	27.2	19.0	39.4
48	13.9	9.9	20.5

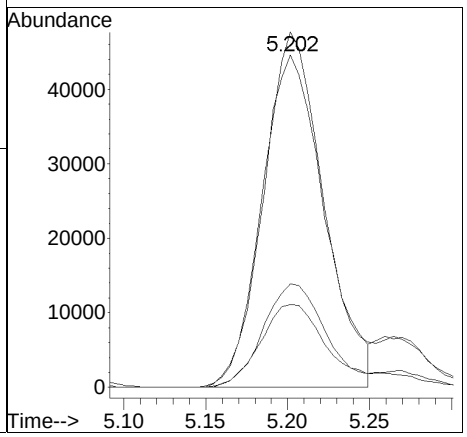


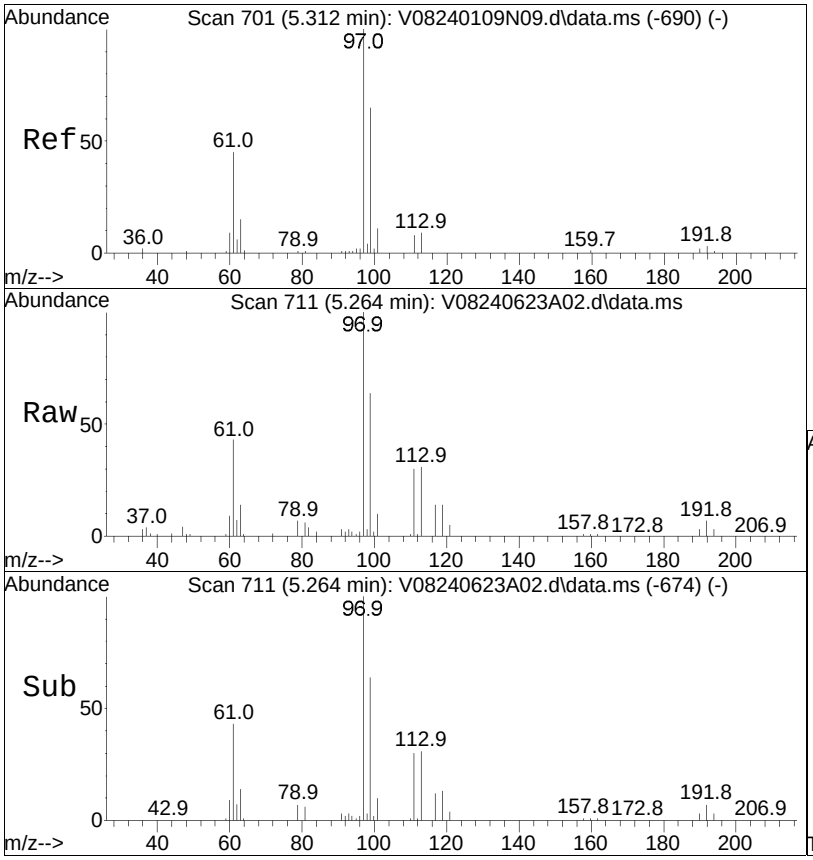


#34
Carbon tetrachloride
Concen: 11.49 ug/L
RT: 5.202 min Scan# 699
Delta R.T. -0.005 min
Lab File: V08240623A02.d
Acq: 23 Jun 2024 11:50 am

Tgt Ion:117 Resp: 123051

Ion	Ratio	Lower	Upper
117	100		
119	97.2	62.4	129.6
121	30.6	19.5	40.5
82	28.4	17.0	35.4

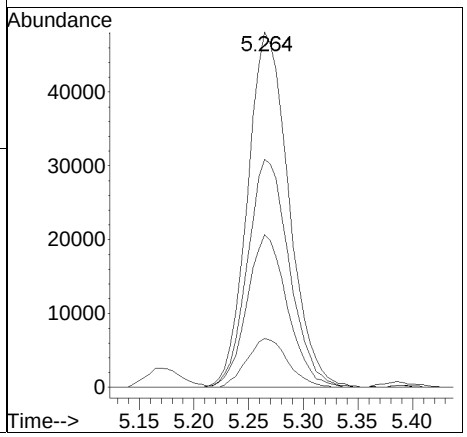


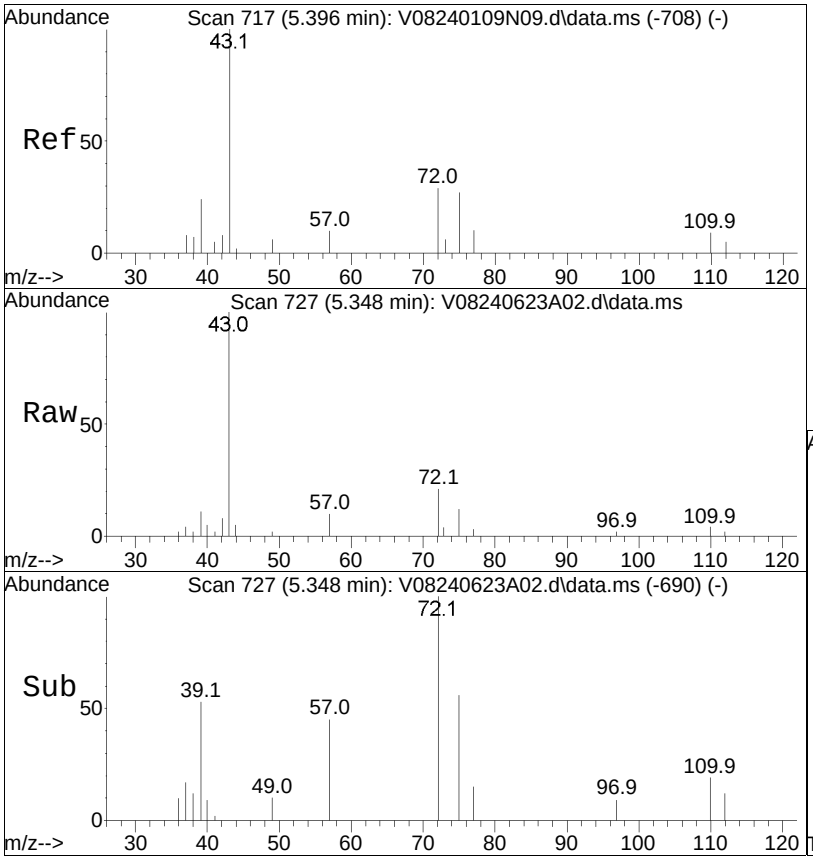


#37
1,1,1-Trichloroethane
Concen: 11.03 ug/L
RT: 5.264 min Scan# 711
Delta R.T. -0.006 min
Lab File: V08240623A02.d
Acq: 23 Jun 2024 11:50 am

Tgt Ion: 97 Resp: 126825

Ion	Ratio	Lower	Upper
97	100		
99	65.1	40.7	84.5
61	42.4	35.4	73.4
63	13.7	5.0	10.4#

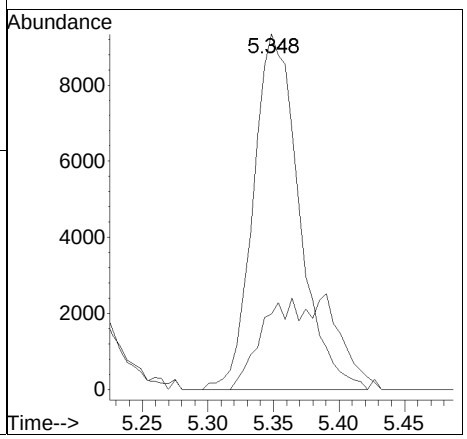


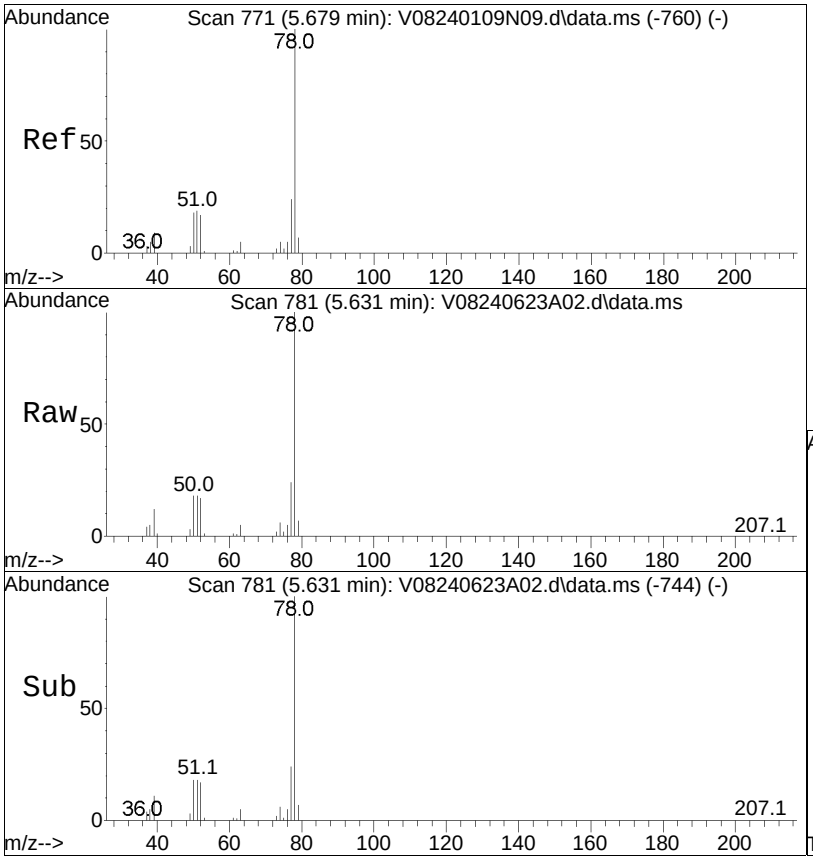


#39
2-Butanone
Concen: 8.98 ug/L
RT: 5.348 min Scan# 727
Delta R.T. -0.006 min
Lab File: V08240623A02.d
Acq: 23 Jun 2024 11:50 am

Tgt Ion: 43 Resp: 22766

Ion	Ratio	Lower	Upper
43	100		
72	14.9	10.9	16.3

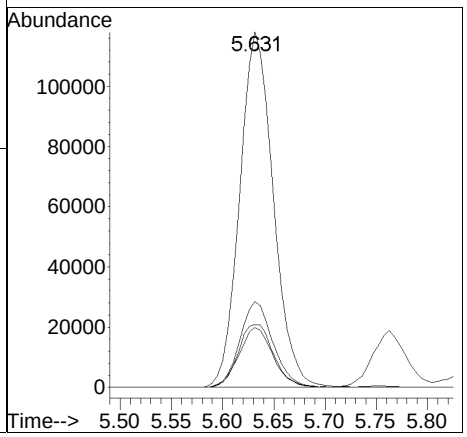


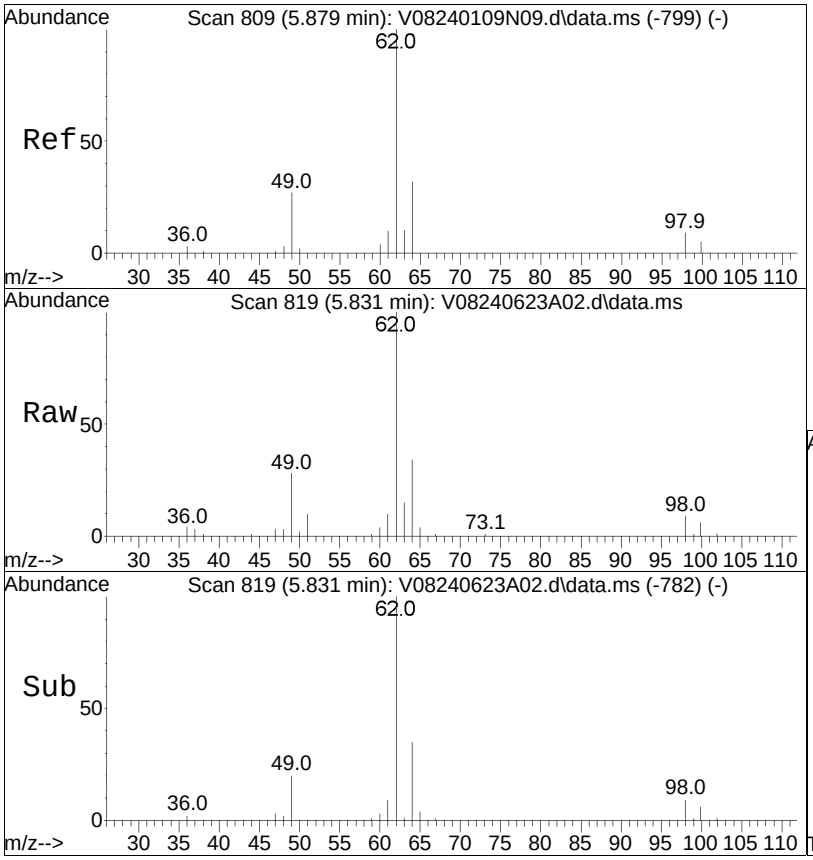


#41
Benzene
Concen: 9.34 ug/L
RT: 5.631 min Scan# 781
Delta R.T. -0.006 min
Lab File: V08240623A02.d
Acq: 23 Jun 2024 11:50 am

Tgt Ion: 78 Resp: 269261

Ion	Ratio	Lower	Upper
78	100		
77	23.8	15.7	32.7
51	18.8	16.0	33.2
52	17.0	15.3	31.9

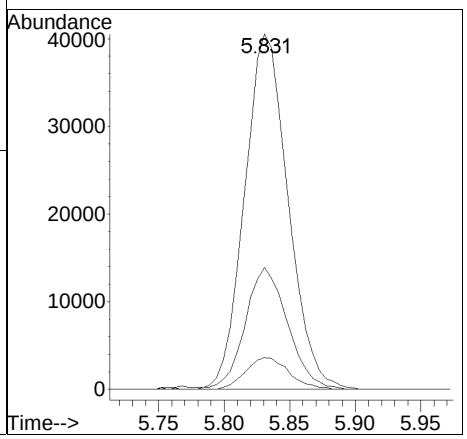


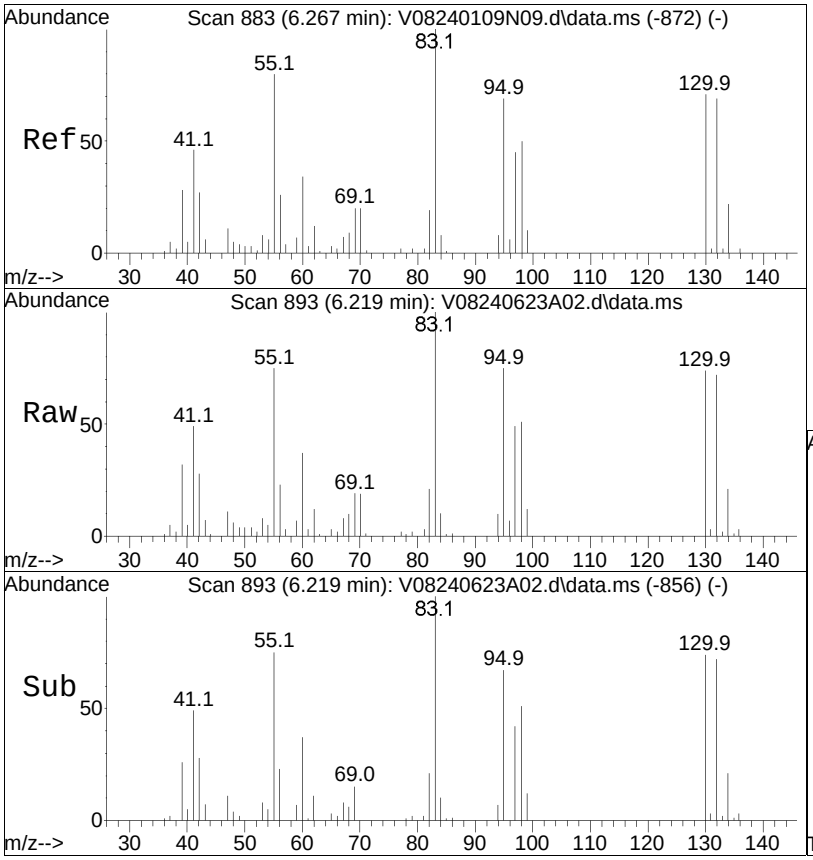


#44
1,2-Dichloroethane
Concen: 9.67 ug/L
RT: 5.831 min Scan# 819
Delta R.T. -0.005 min
Lab File: V08240623A02.d
Acq: 23 Jun 2024 11:50 am

Tgt Ion: 62 Resp: 93518

Ion	Ratio	Lower	Upper
62	100		
64	33.5	11.2	51.2
98	9.0	0.0	26.1

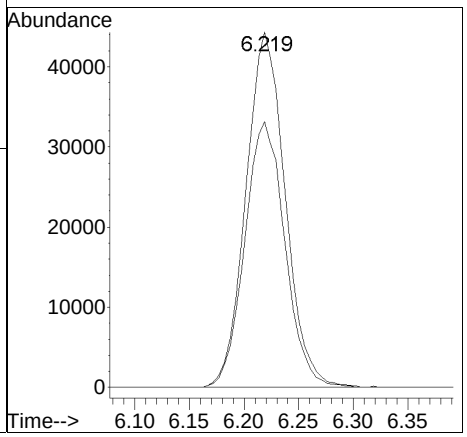


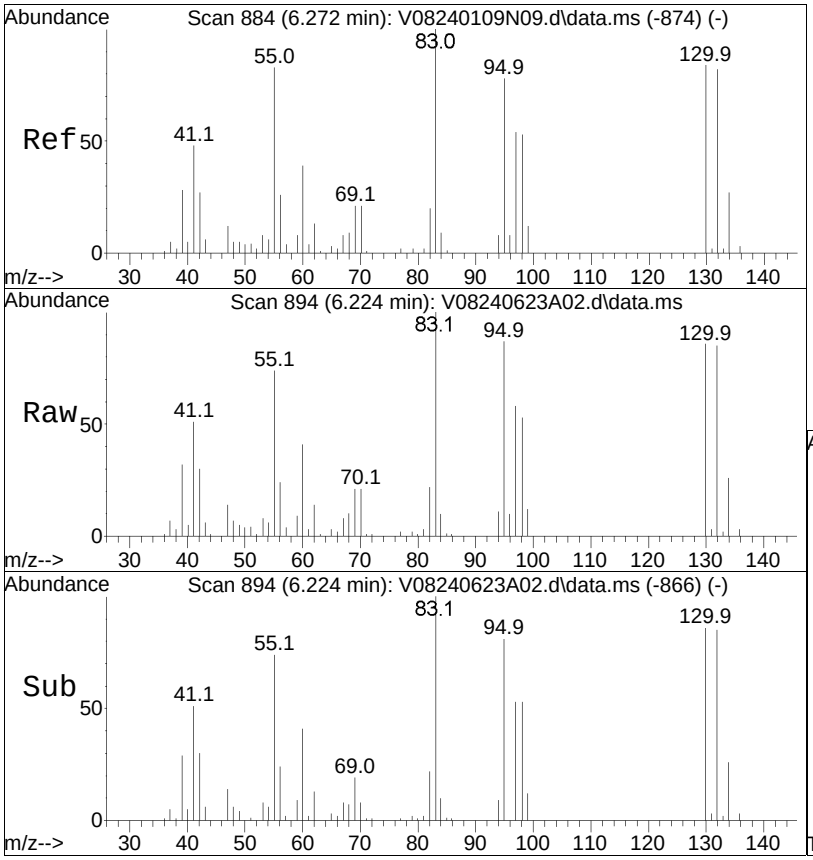


#47
Methyl cyclohexane
Concen: 9.70 ug/L
RT: 6.219 min Scan# 893
Delta R.T. -0.005 min
Lab File: V08240623A02.d
Acq: 23 Jun 2024 11:50 am

Tgt Ion: 83 Resp: 110877

Ion	Ratio	Lower	Upper
83	100		
55	76.5	88.3	132.5#

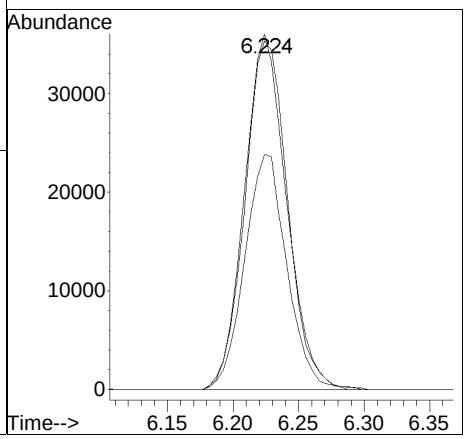


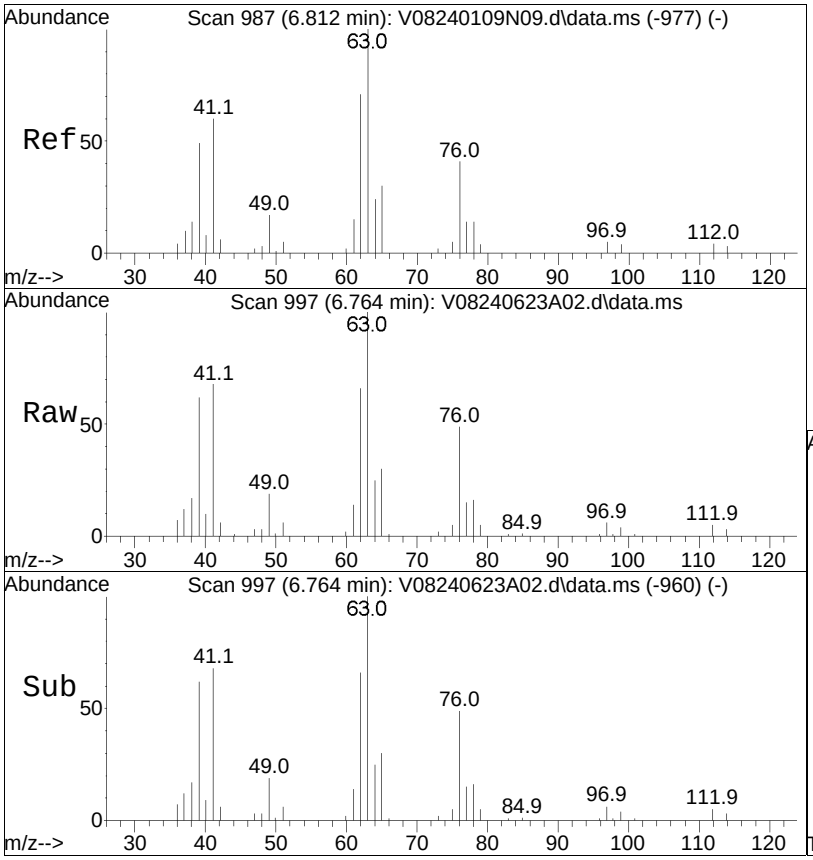


#48
Trichloroethene
Concen: 10.50 ug/L
RT: 6.224 min Scan# 894
Delta R.T. -0.005 min
Lab File: V08240623A02.d
Acq: 23 Jun 2024 11:50 am

Tgt Ion: 95 Resp: 79918

Ion	Ratio	Lower	Upper
95	100		
97	66.4	55.5	83.3
130	100.8	76.6	115.0

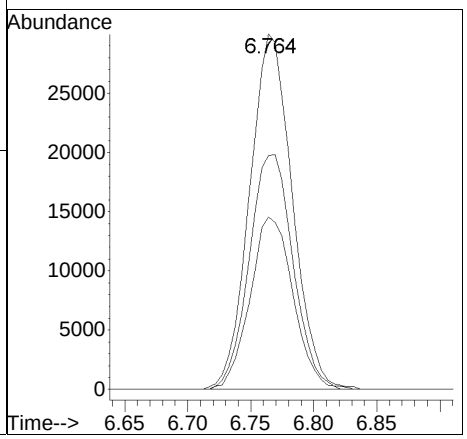


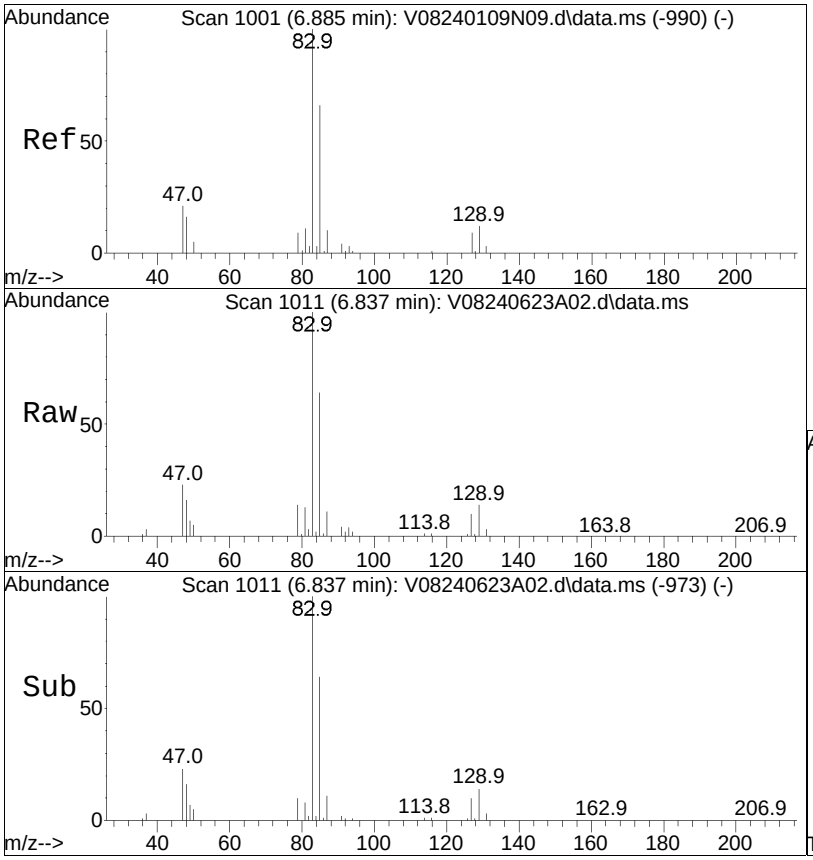


#51
1,2-Dichloropropane
Concen: 9.24 ug/L
RT: 6.764 min Scan# 997
Delta R.T. -0.005 min
Lab File: V08240623A02.d
Acq: 23 Jun 2024 11:50 am

Tgt Ion: 63 Resp: 70681

Ion	Ratio	Lower	Upper
63	100		
62	67.8	58.6	87.8
76	49.1	38.0	57.0

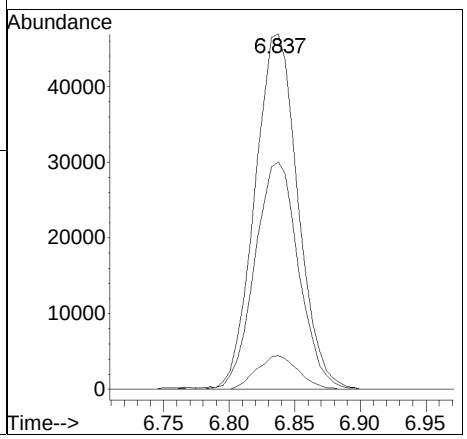


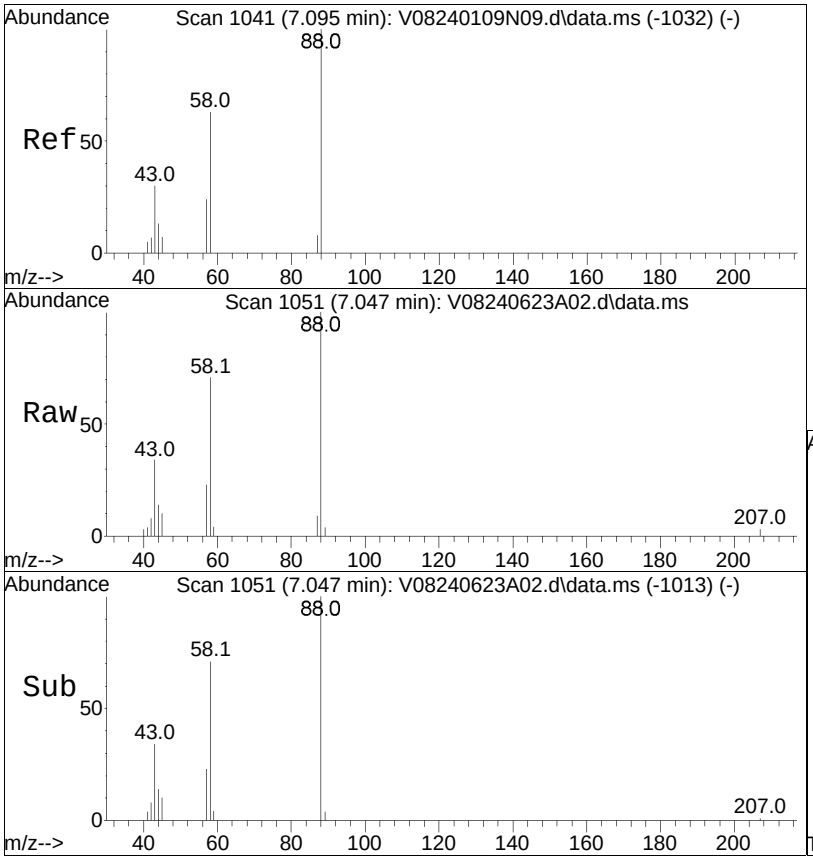


#54
Bromodichloromethane
Concen: 10.22 ug/L
RT: 6.837 min Scan# 1011
Delta R.T. -0.001 min
Lab File: V08240623A02.d
Acq: 23 Jun 2024 11:50 am

Tgt Ion: 83 Resp: 107515

Ion	Ratio	Lower	Upper
83	100		
85	65.1	52.3	78.5
127	9.2	6.2	9.4

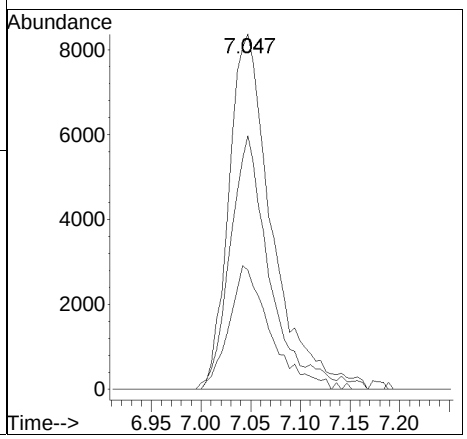


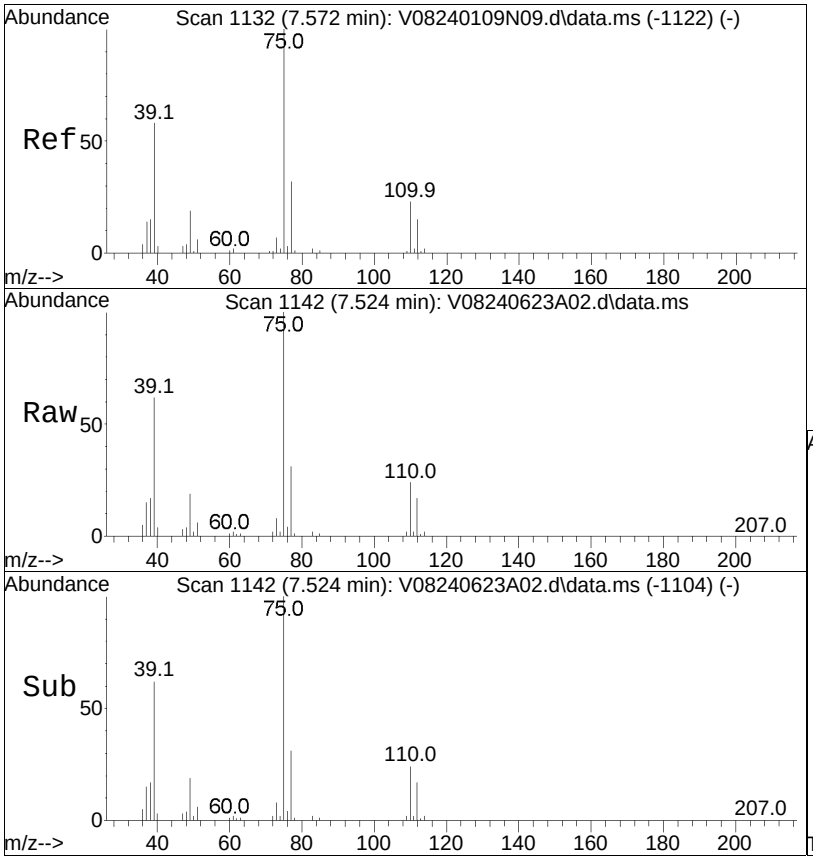


#57
1,4-Dioxane
Concen: 582.35 ug/L
RT: 7.047 min Scan# 1051
Delta R.T. 0.000 min
Lab File: V08240623A02.d
Acq: 23 Jun 2024 11:50 am

Tgt Ion: 88 Resp: 25346

Ion	Ratio	Lower	Upper
88	100		
58	65.2	76.7	115.1#
43	33.7	36.2	54.2#

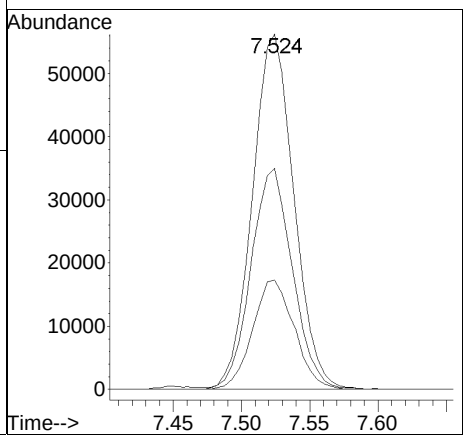


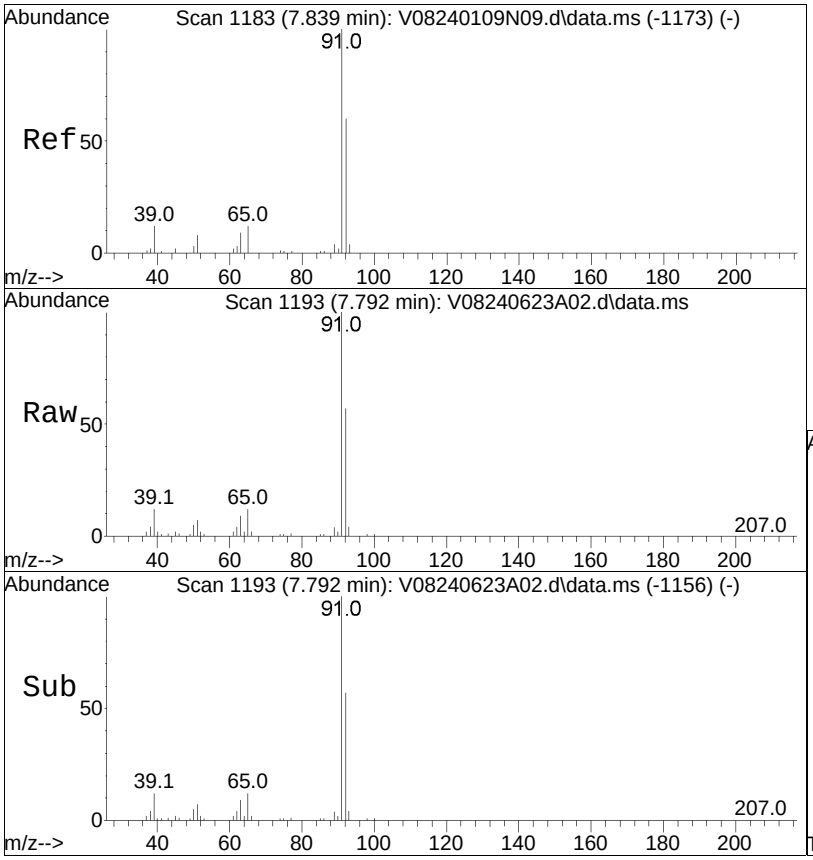


#58
cis-1,3-Dichloropropene
Concen: 9.75 ug/L
RT: 7.524 min Scan# 1142
Delta R.T. 0.000 min
Lab File: V08240623A02.d
Acq: 23 Jun 2024 11:50 am

Tgt Ion: 75 Resp: 119004

Ion	Ratio	Lower	Upper
75	100		
77	30.9	25.0	37.4
39	62.1	50.1	75.1

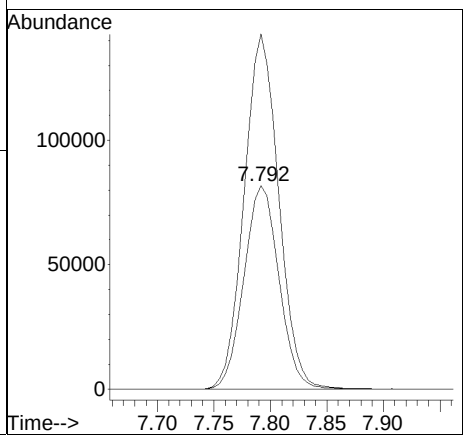


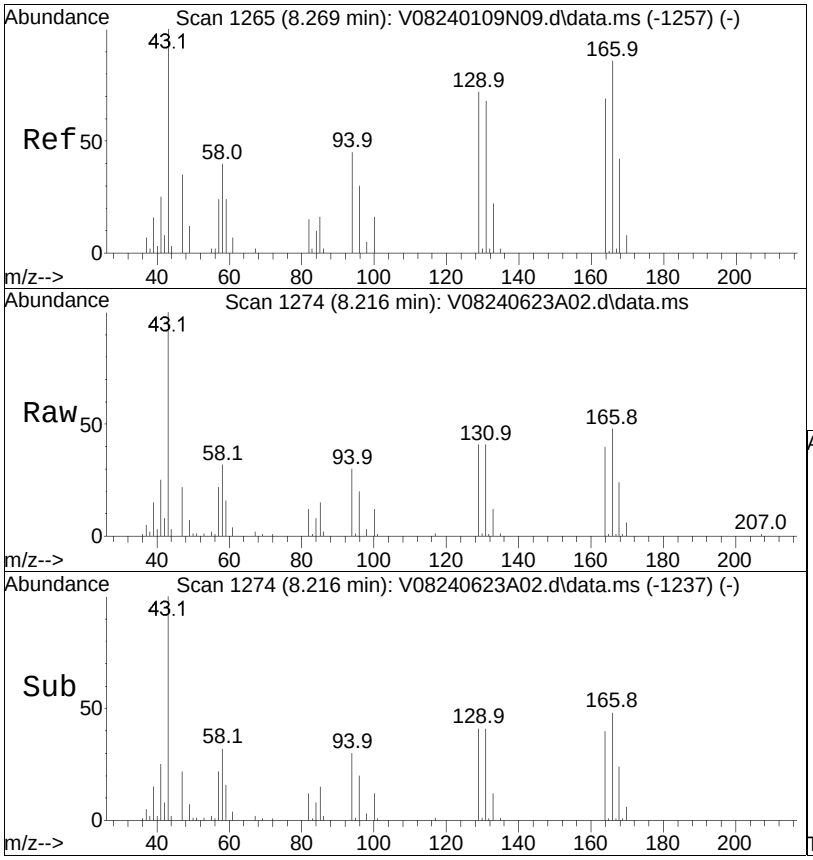


#61
Toluene
Concen: 9.73 ug/L
RT: 7.792 min Scan# 1193
Delta R.T. -0.005 min
Lab File: V08240623A02.d
Acq: 23 Jun 2024 11:50 am

Tgt Ion: 92 Resp: 176838

Ion	Ratio	Lower	Upper
92	100		
91	172.0	139.8	209.6

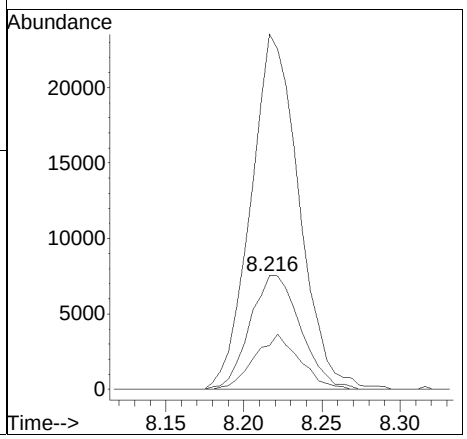


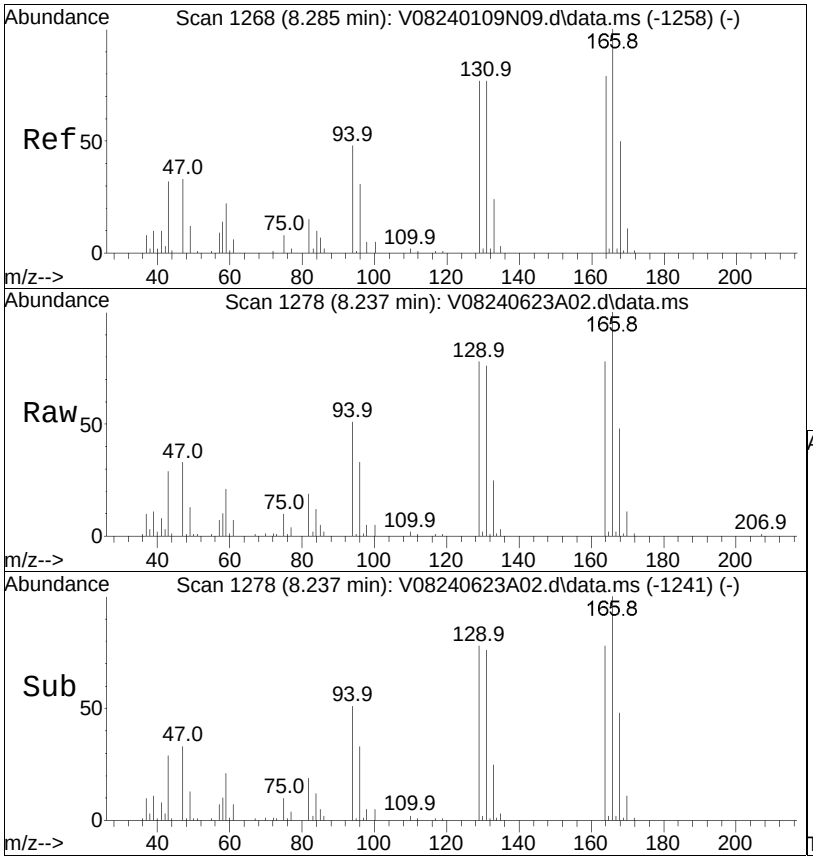


#62
4-Methyl-2-pentanone
Concen: 8.57 ug/L
RT: 8.216 min Scan# 1274
Delta R.T. -0.006 min
Lab File: V08240623A02.d
Acq: 23 Jun 2024 11:50 am

Tgt Ion: 58 Resp: 17097

Ion	Ratio	Lower	Upper
58	100		
100	43.4	20.2	30.2#
43	296.4	196.6	295.0#

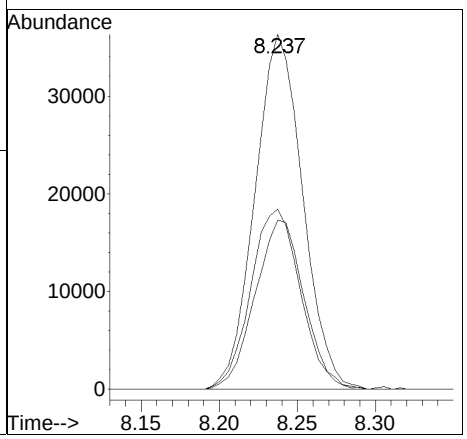


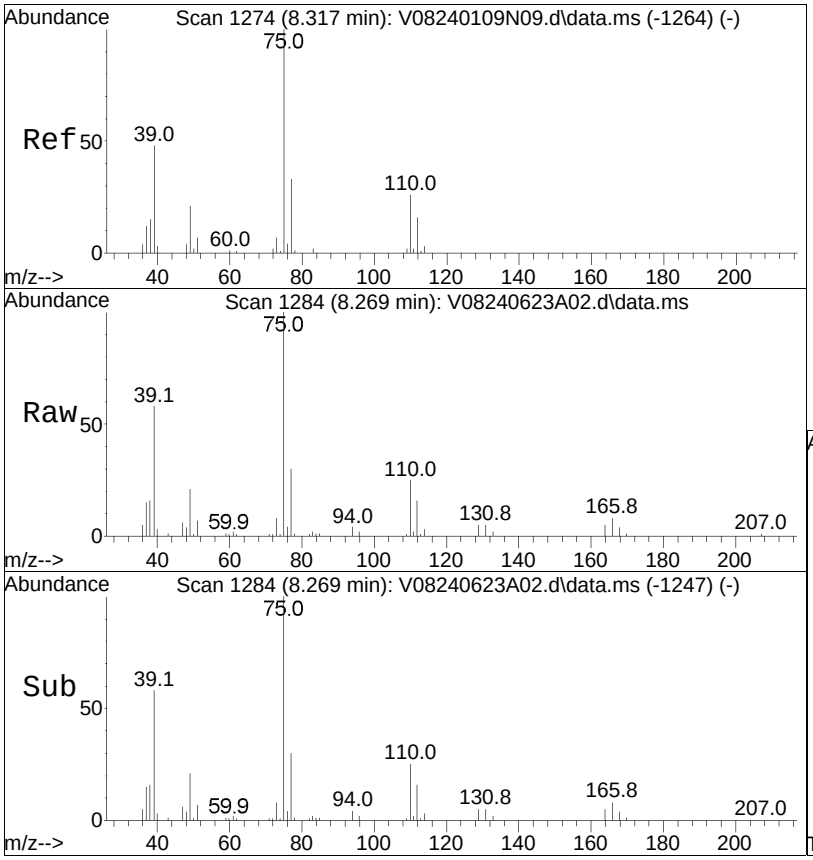


#63
Tetrachloroethene
Concen: 10.29 ug/L
RT: 8.237 min Scan# 1278
Delta R.T. -0.006 min
Lab File: V08240623A02.d
Acq: 23 Jun 2024 11:50 am

Tgt Ion:166 Resp: 77457

Ion	Ratio	Lower	Upper
166	100		
168	48.9	28.2	68.2
94	52.7	38.4	78.4

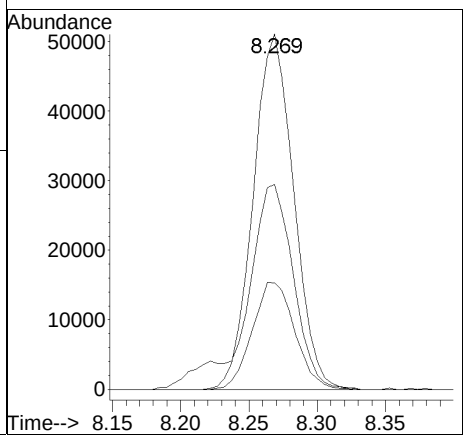


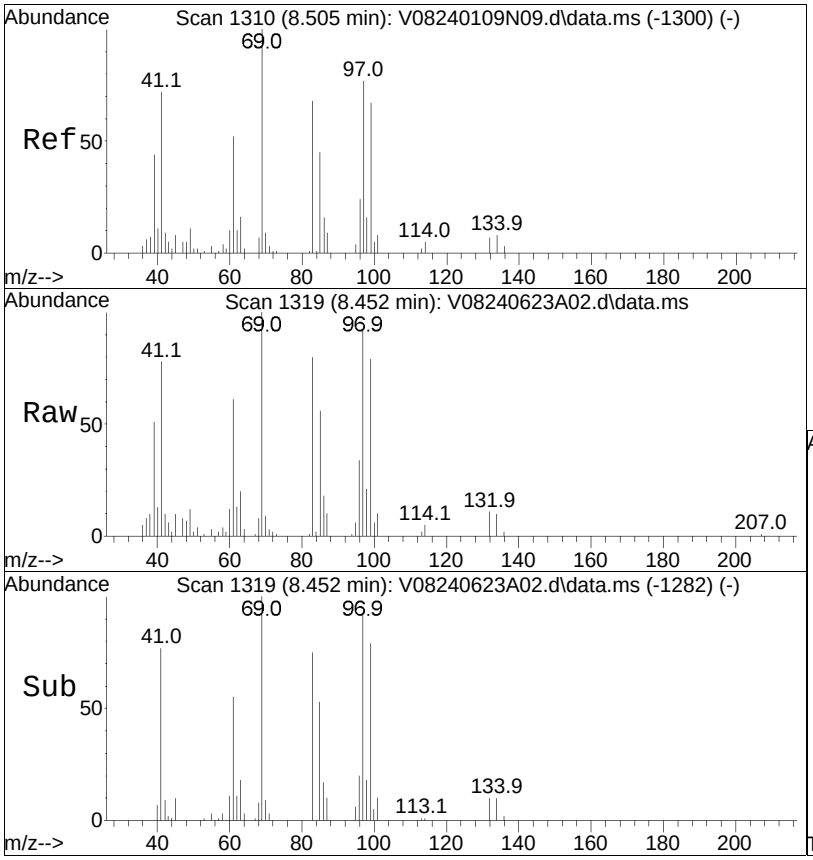


#65
trans-1,3-Dichloropropene
Concen: 9.70 ug/L
RT: 8.269 min Scan# 1284
Delta R.T. -0.005 min
Lab File: V08240623A02.d
Acq: 23 Jun 2024 11:50 am

Tgt Ion: 75 Resp: 105495

Ion	Ratio	Lower	Upper
75	100		
77	31.5	12.4	52.4
39	59.4	42.8	82.8

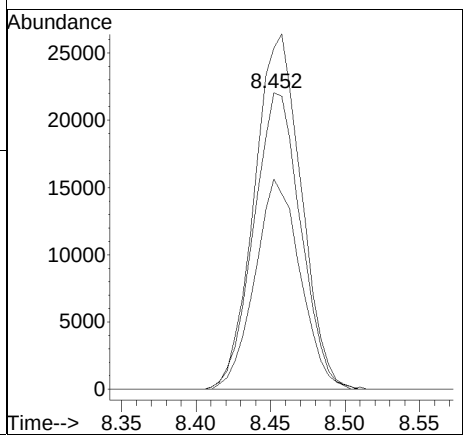


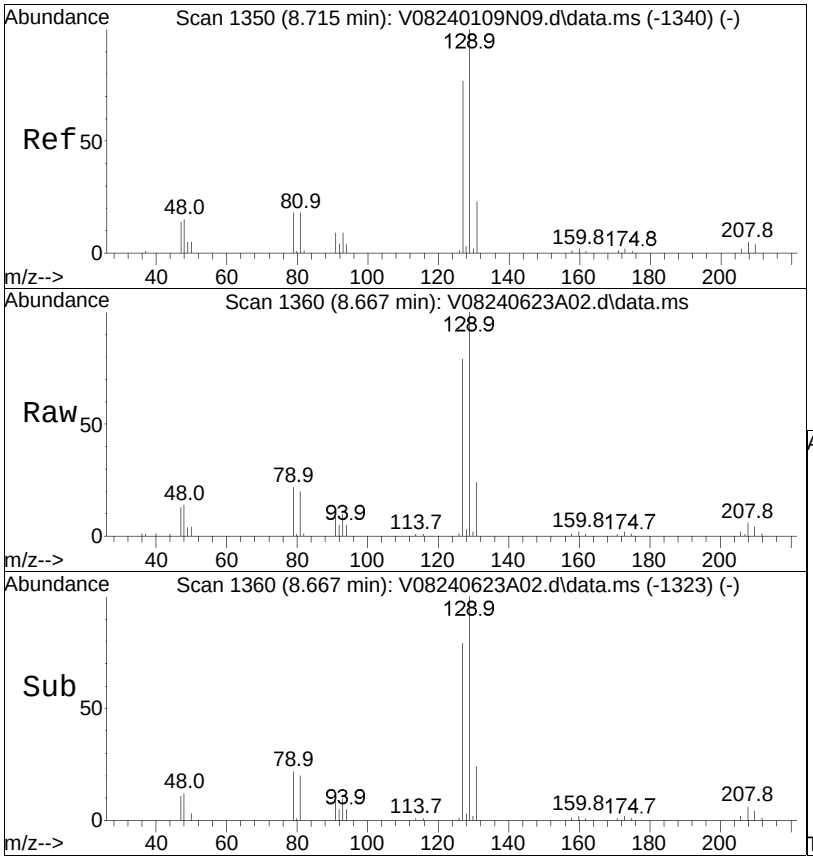


#68
1,1,2-Trichloroethane
Concen: 9.78 ug/L
RT: 8.452 min Scan# 1319
Delta R.T. -0.006 min
Lab File: V08240623A02.d
Acq: 23 Jun 2024 11:50 am

Tgt Ion: 83 Resp: 48367

Ion	Ratio	Lower	Upper
83	100		
97	119.5	89.8	129.8
85	68.7	44.4	84.4

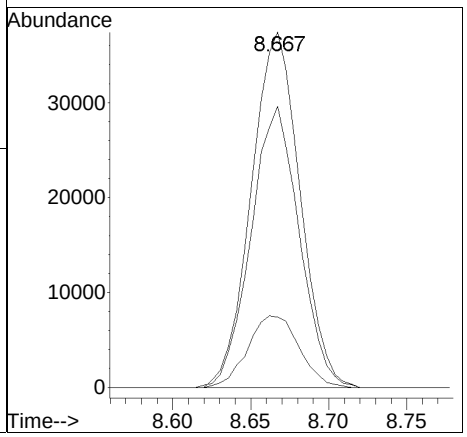


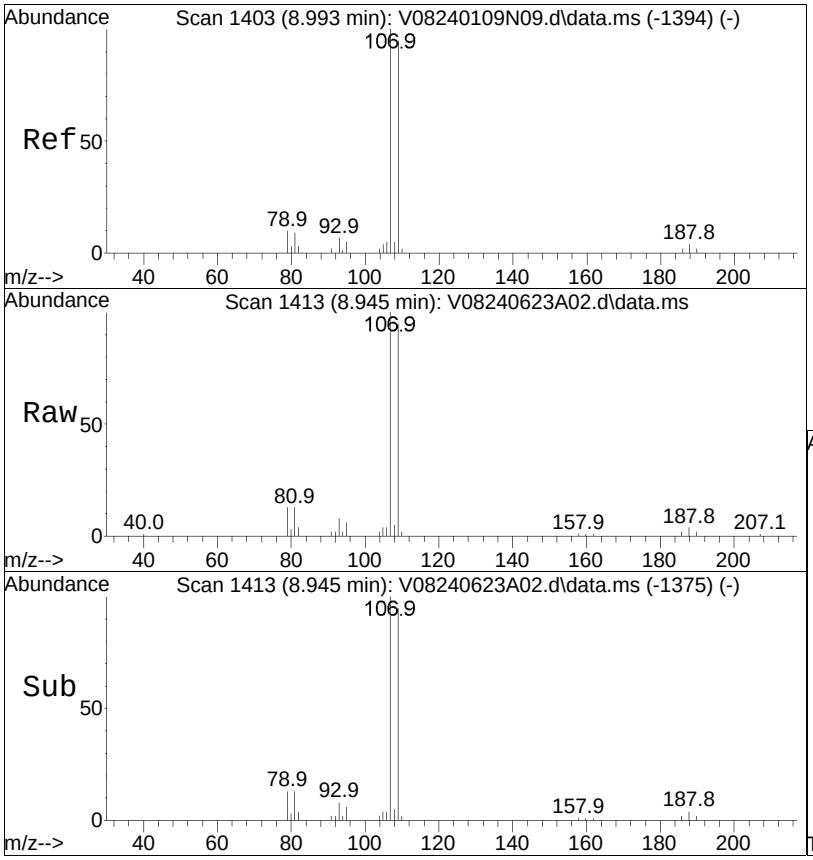


#69
Chlorodibromomethane
Concen: 10.49 ug/L
RT: 8.667 min Scan# 1360
Delta R.T. -0.006 min
Lab File: V08240623A02.d
Acq: 23 Jun 2024 11:50 am

Tgt Ion:129 Resp: 81238

Ion	Ratio	Lower	Upper
129	100		
81	21.3	2.9	42.9
127	78.3	57.8	97.8

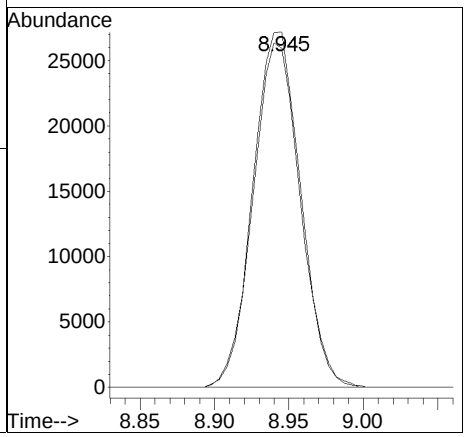


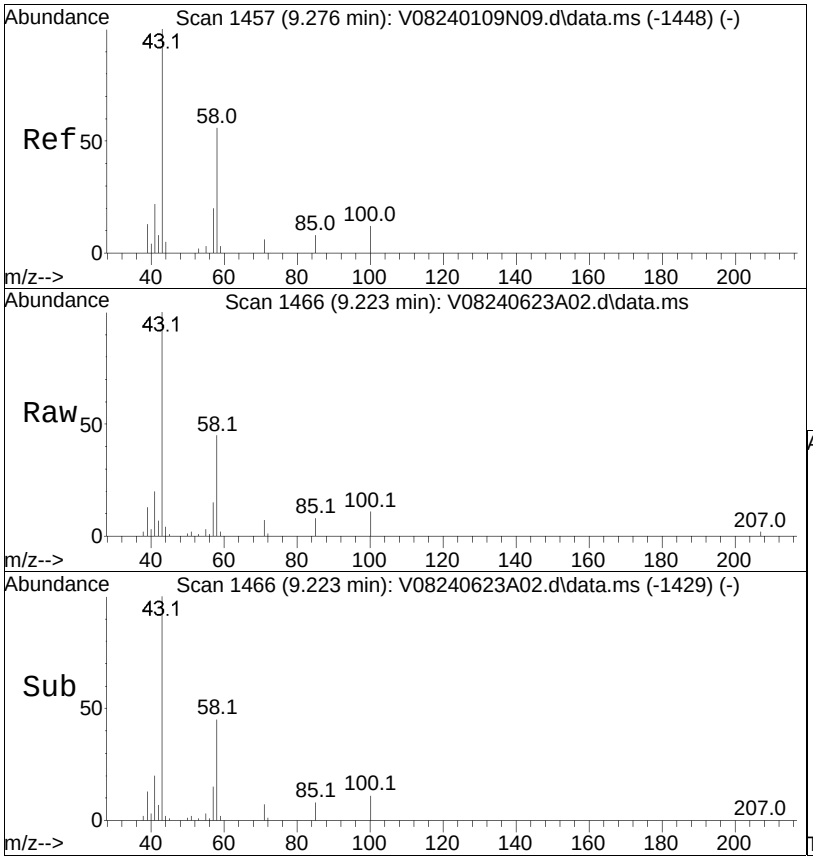


#71
1,2-Dibromoethane
Concen: 10.48 ug/L
RT: 8.945 min Scan# 1413
Delta R.T. 0.000 min
Lab File: V08240623A02.d
Acq: 23 Jun 2024 11:50 am

Tgt Ion:107 Resp: 60624

Ion	Ratio	Lower	Upper
107	100		
109	95.2	74.3	111.5

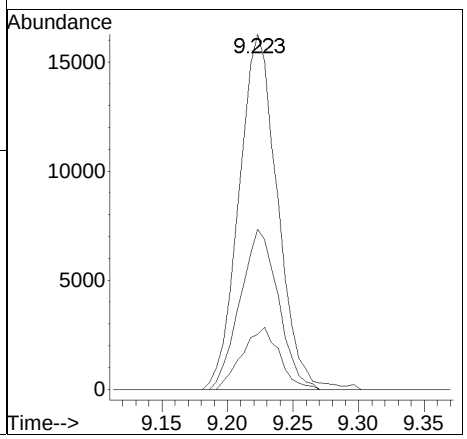


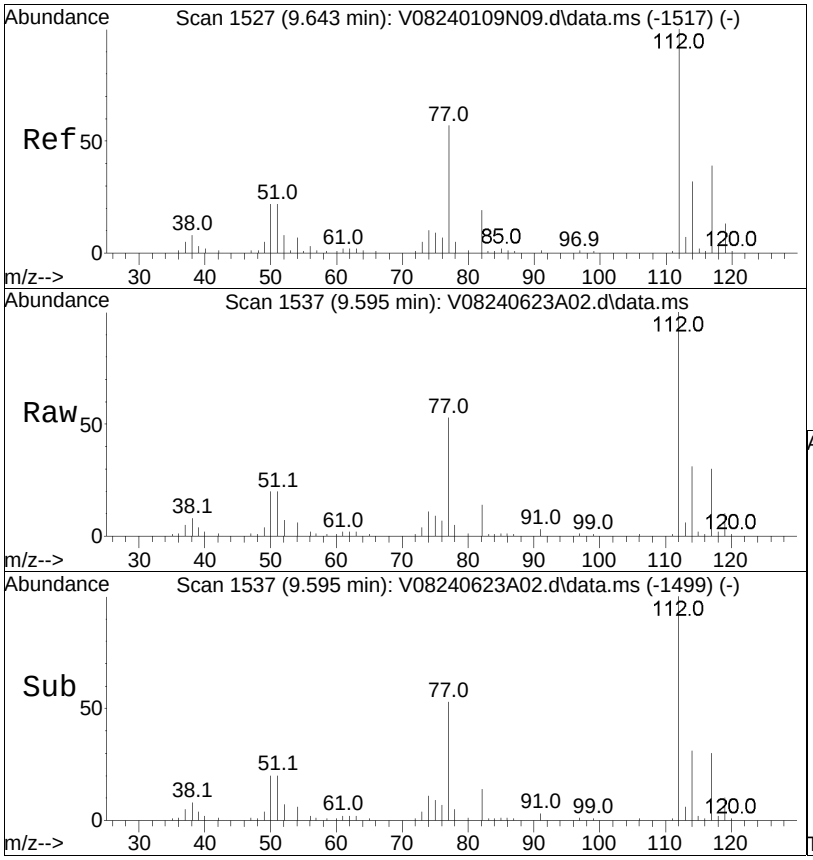


#72
2-Hexanone
Concen: 7.96 ug/L
RT: 9.223 min Scan# 1466
Delta R.T. -0.005 min
Lab File: V08240623A02.d
Acq: 23 Jun 2024 11:50 am

Tgt Ion: 43 Resp: 33238

Ion	Ratio	Lower	Upper
43	100		
58	44.8	41.2	61.8
57	17.0	17.2	25.8#

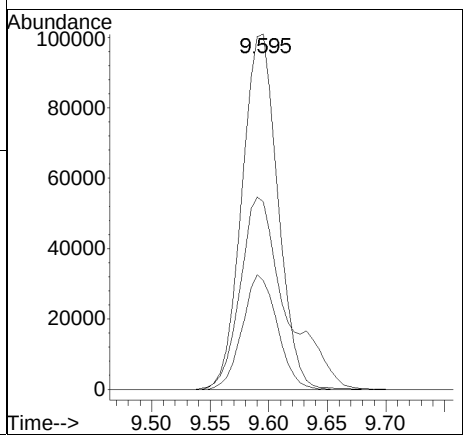


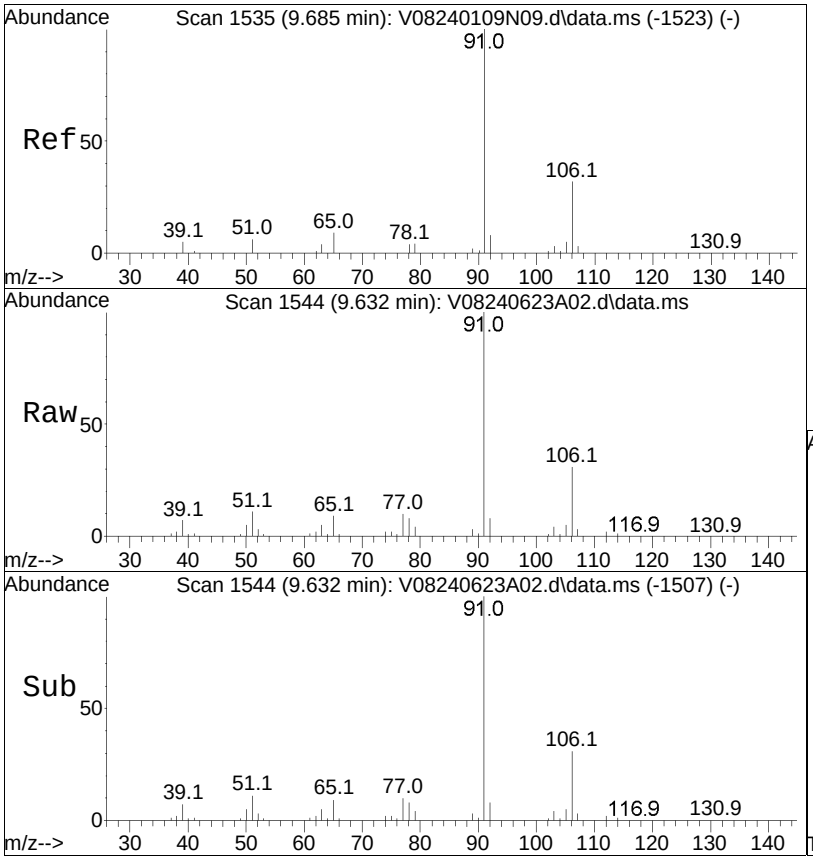


#73
Chlorobenzene
Concen: 10.66 ug/L
RT: 9.595 min Scan# 1537
Delta R.T. 0.000 min
Lab File: V08240623A02.d
Acq: 23 Jun 2024 11:50 am

Tgt Ion:112 Resp: 215155

Ion	Ratio	Lower	Upper
112	100		
77	69.0	55.4	83.0
114	31.4	25.4	38.2

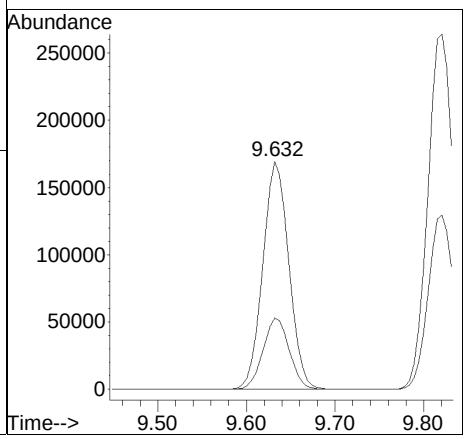


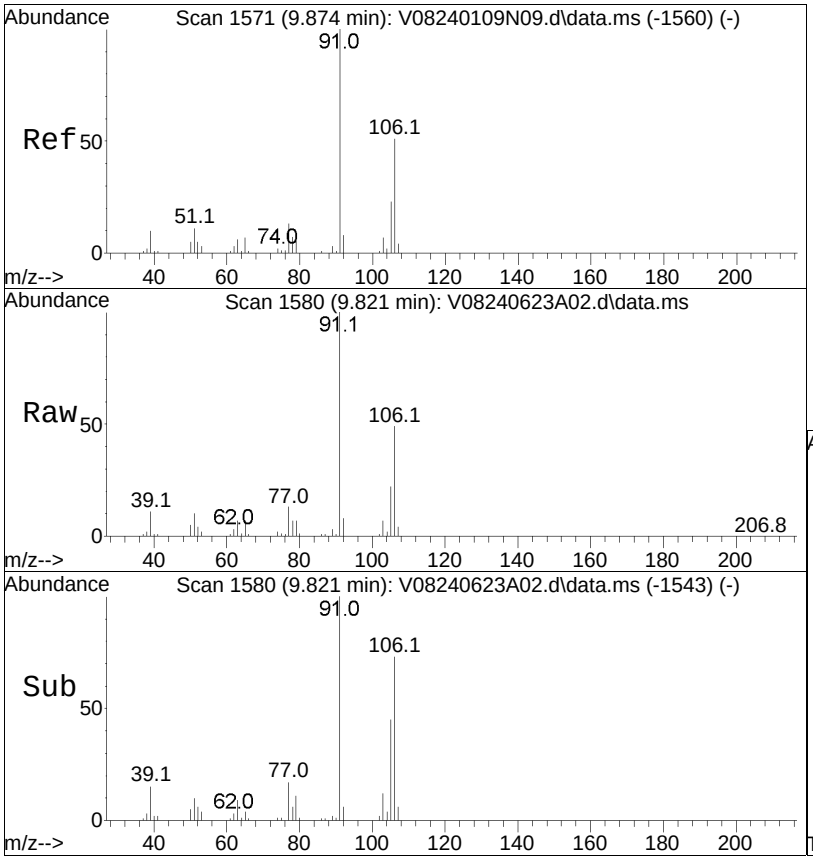


#74
Ethylbenzene
Concen: 10.05 ug/L
RT: 9.632 min Scan# 1544
Delta R.T. -0.005 min
Lab File: V08240623A02.d
Acq: 23 Jun 2024 11:50 am

Tgt Ion: 91 Resp: 346524

Ion	Ratio	Lower	Upper
91	100		
106	31.5	24.3	36.5

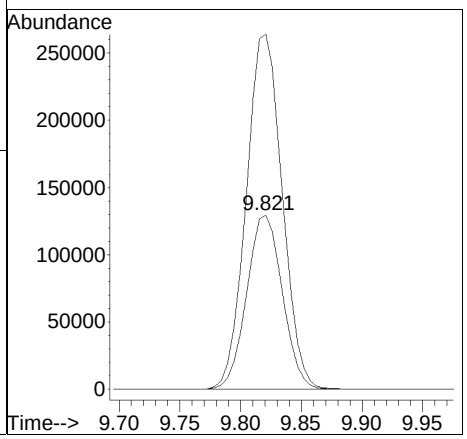


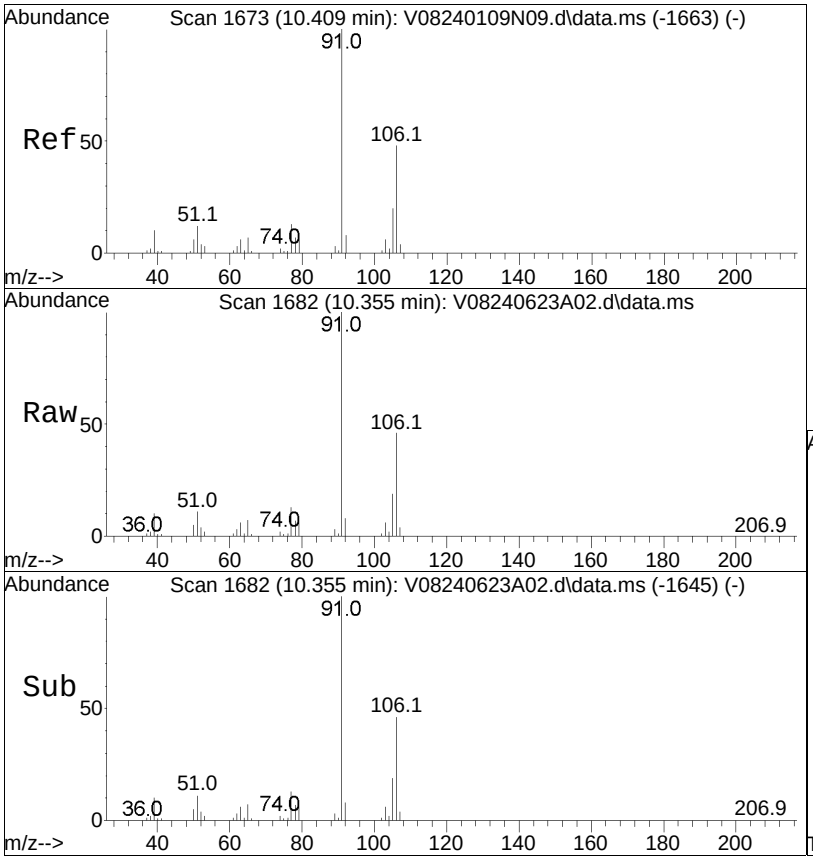


#76
p/m Xylene
Concen: 19.58 ug/L
RT: 9.821 min Scan# 1580
Delta R.T. -0.005 min
Lab File: V08240623A02.d
Acq: 23 Jun 2024 11:50 am

Tgt Ion:106 Resp: 264979

Ion	Ratio	Lower	Upper
106	100		
91	205.3	166.4	249.6

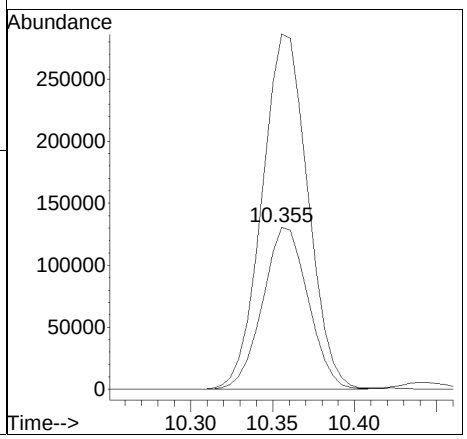


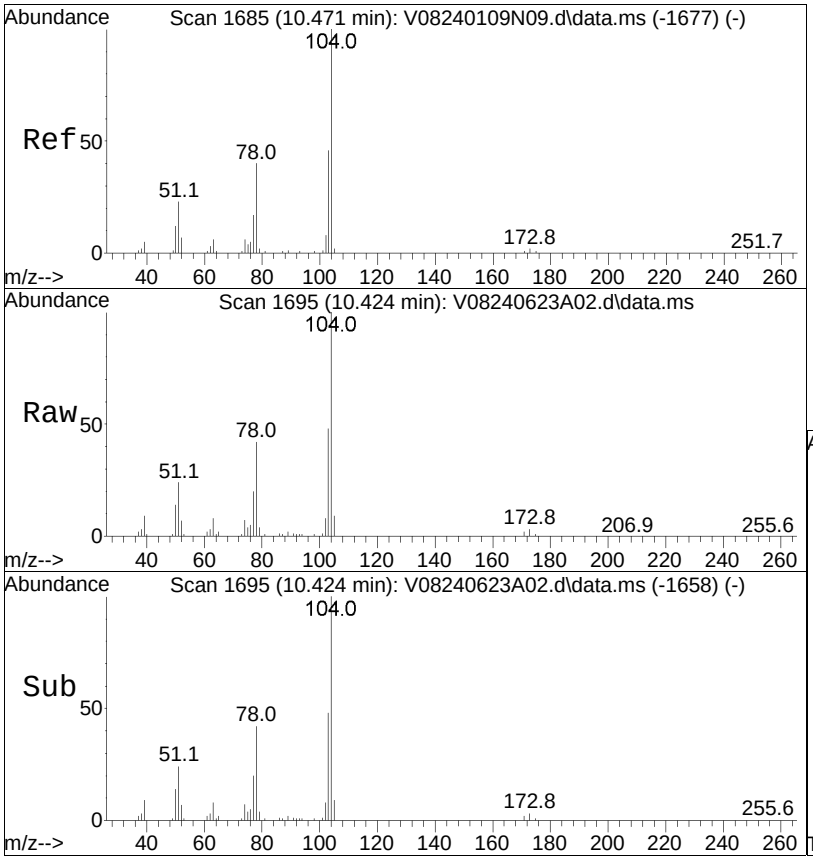


#77
o Xylene
Concen: 19.05 ug/L
RT: 10.355 min Scan# 1682
Delta R.T. -0.006 min
Lab File: V08240623A02.d
Acq: 23 Jun 2024 11:50 am

Tgt Ion:106 Resp: 252588

Ion	Ratio	Lower	Upper
106	100		
91	220.7	182.6	273.8

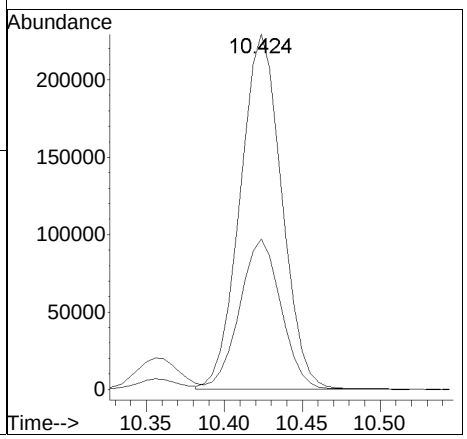


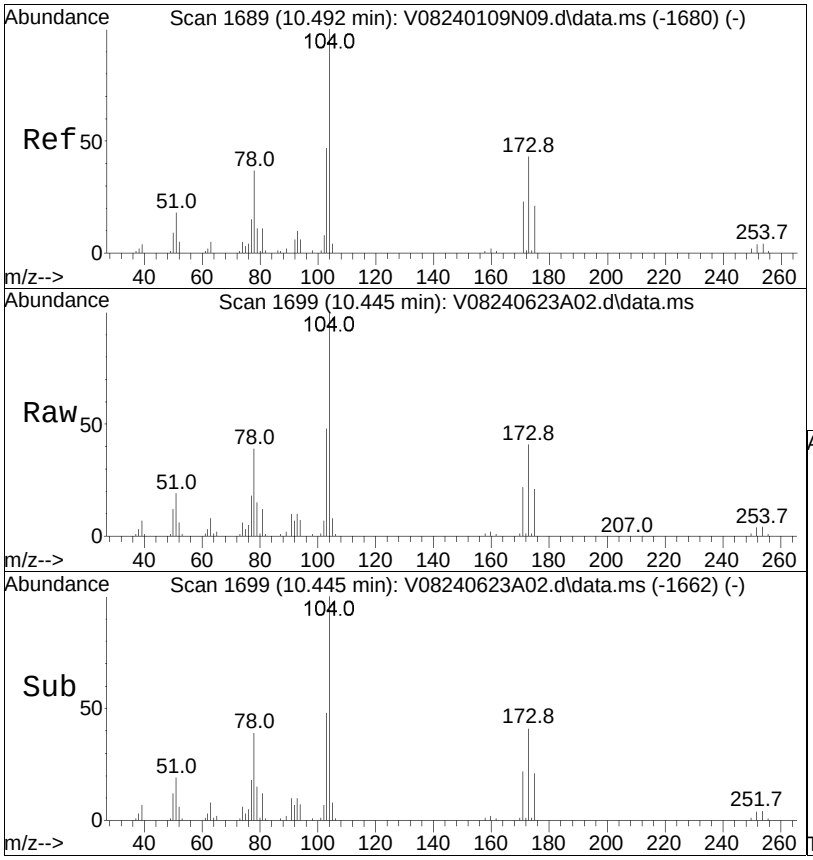


#78
Styrene
Concen: 19.01 ug/L
RT: 10.424 min Scan# 1695
Delta R.T. -0.005 min
Lab File: V08240623A02.d
Acq: 23 Jun 2024 11:50 am

Tgt Ion:104 Resp: 423802

Ion	Ratio	Lower	Upper
104	100		
78	42.4	39.8	59.6

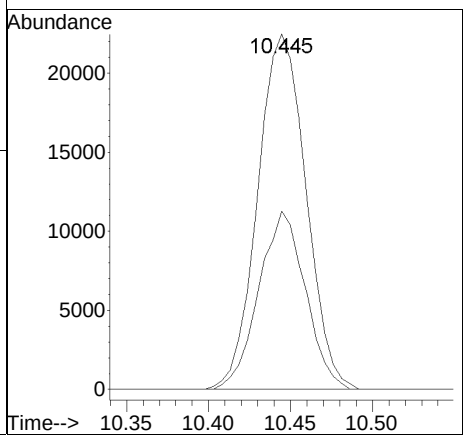


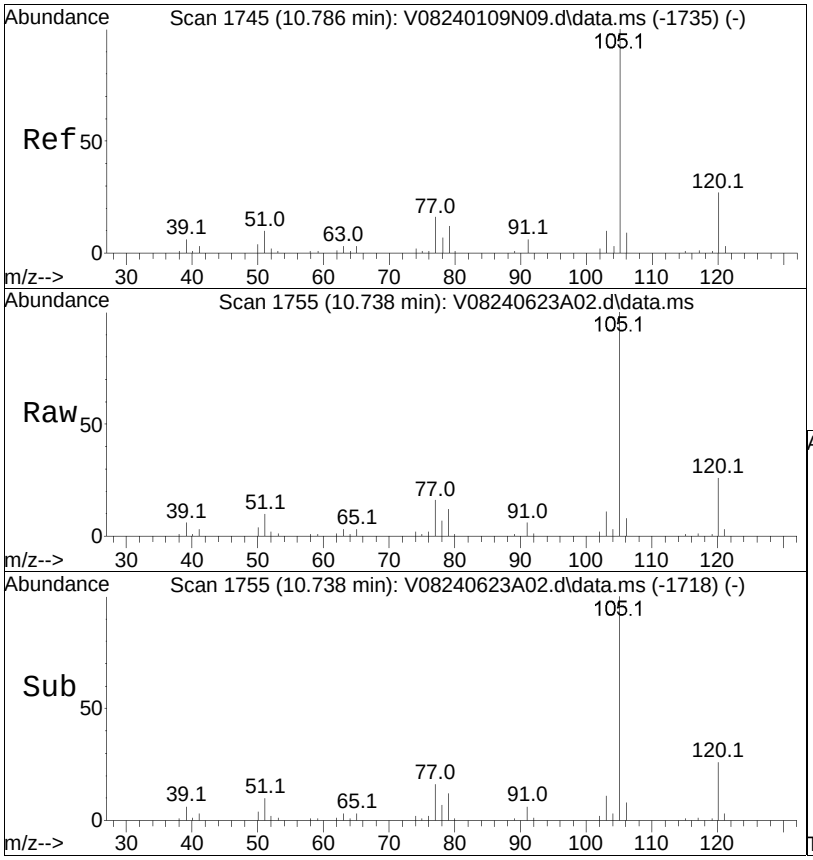


#80
Bromoform
Concen: 10.69 ug/L
RT: 10.445 min Scan# 1699
Delta R.T. -0.005 min
Lab File: V08240623A02.d
Acq: 23 Jun 2024 11:50 am

Tgt Ion:173 Resp: 46075

Ion	Ratio	Lower	Upper
173	100		
175	48.3	31.5	71.5

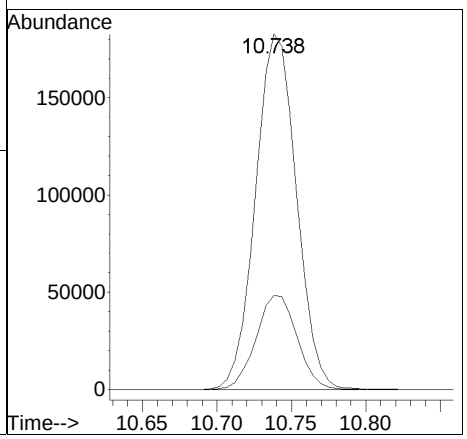


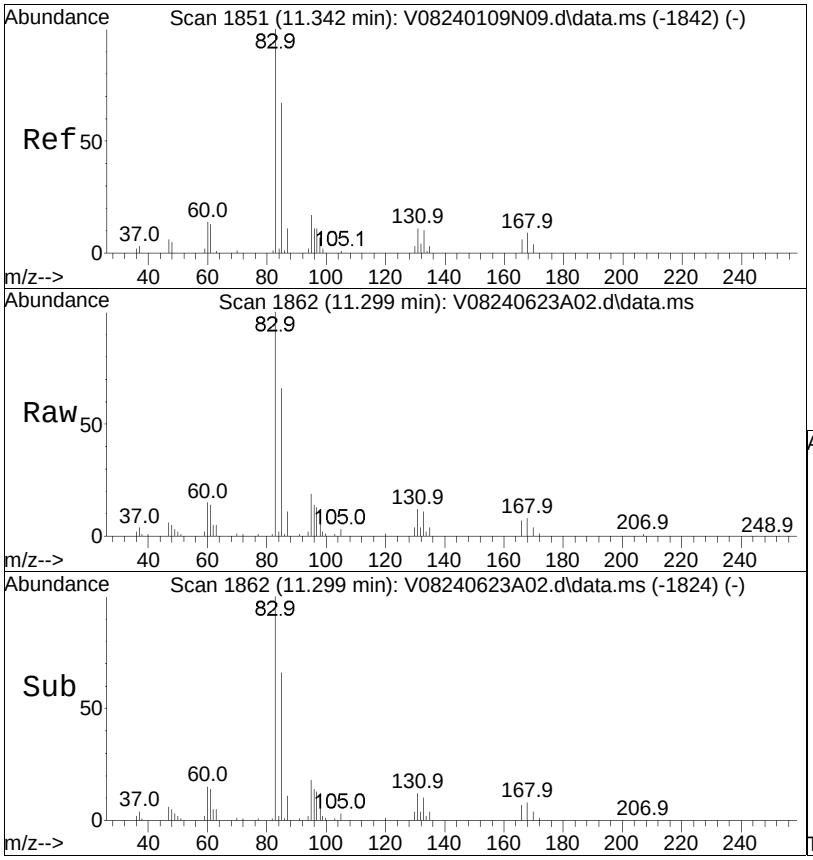


#82
Isopropylbenzene
Concen: 10.85 ug/L
RT: 10.738 min Scan# 1755
Delta R.T. -0.006 min
Lab File: V08240623A02.d
Acq: 23 Jun 2024 11:50 am

Tgt Ion:105 Resp: 348164

Ion	Ratio	Lower	Upper
105	100		
120	26.6	4.8	44.8

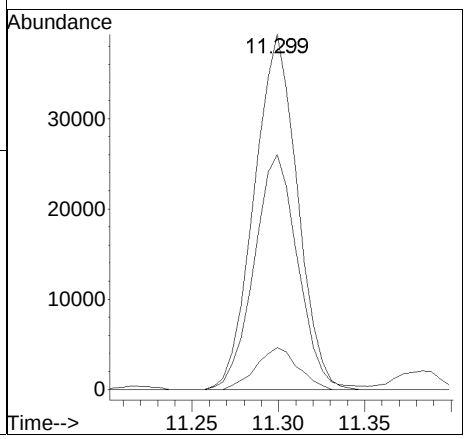


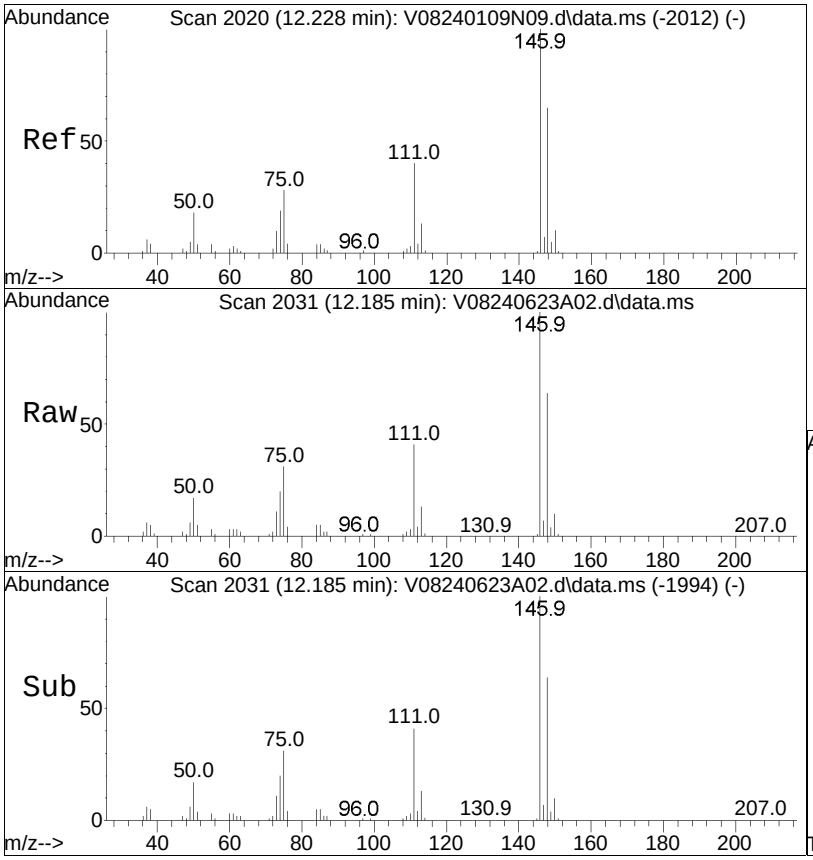


#87
1,1,2,2-Tetrachloroethane
Concen: 10.56 ug/L
RT: 11.299 min Scan# 1862
Delta R.T. 0.000 min
Lab File: V08240623A02.d
Acq: 23 Jun 2024 11:50 am

Tgt Ion: 83 Resp: 68384

Ion	Ratio	Lower	Upper
83	100		
131	11.4	0.0	30.4
85	67.2	45.4	85.4

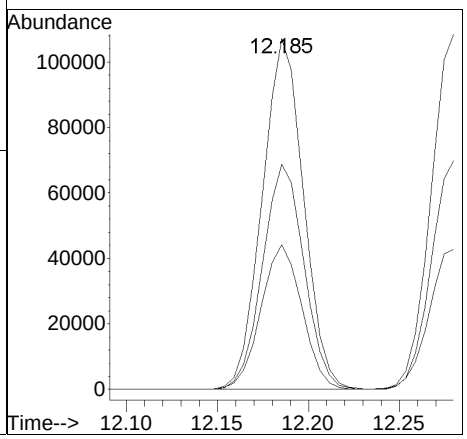


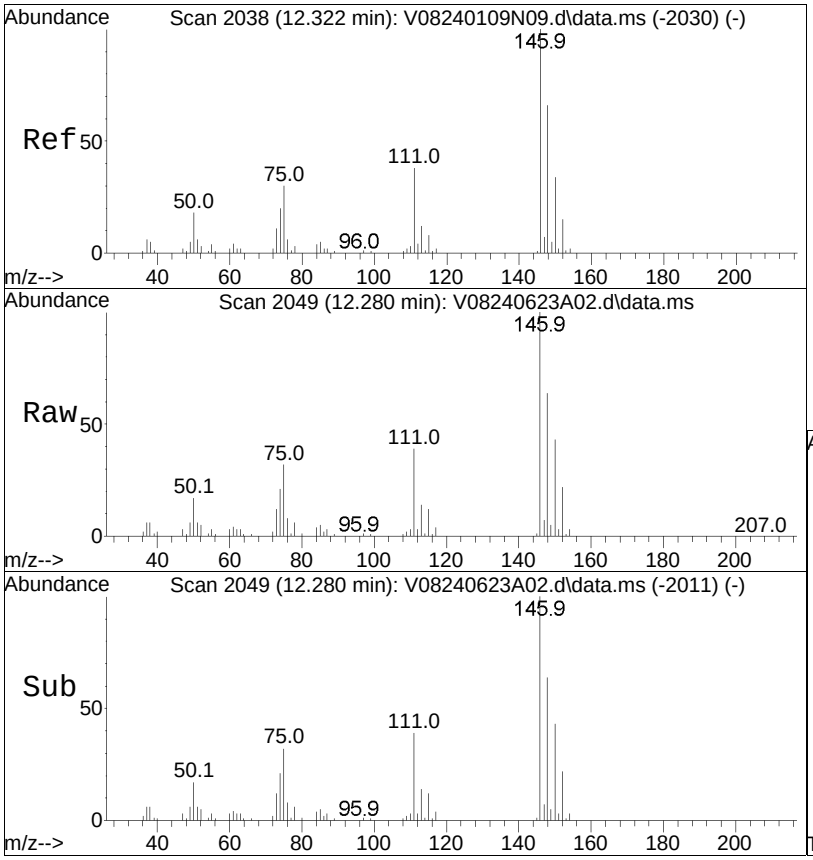


#100
1,3-Dichlorobenzene
Concen: 10.83 ug/L
RT: 12.185 min Scan# 2031
Delta R.T. -0.006 min
Lab File: V08240623A02.d
Acq: 23 Jun 2024 11:50 am

Tgt Ion:146 Resp: 168729

Ion	Ratio	Lower	Upper
146	100		
111	41.1	27.5	57.1
148	64.6	41.9	86.9

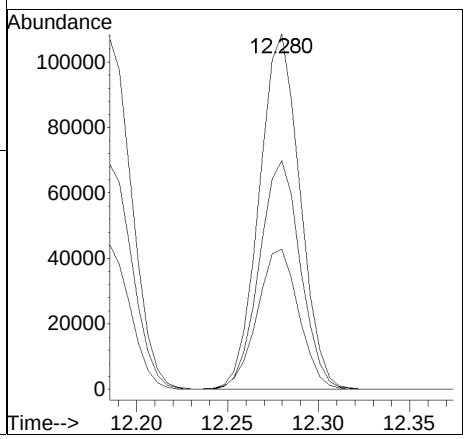


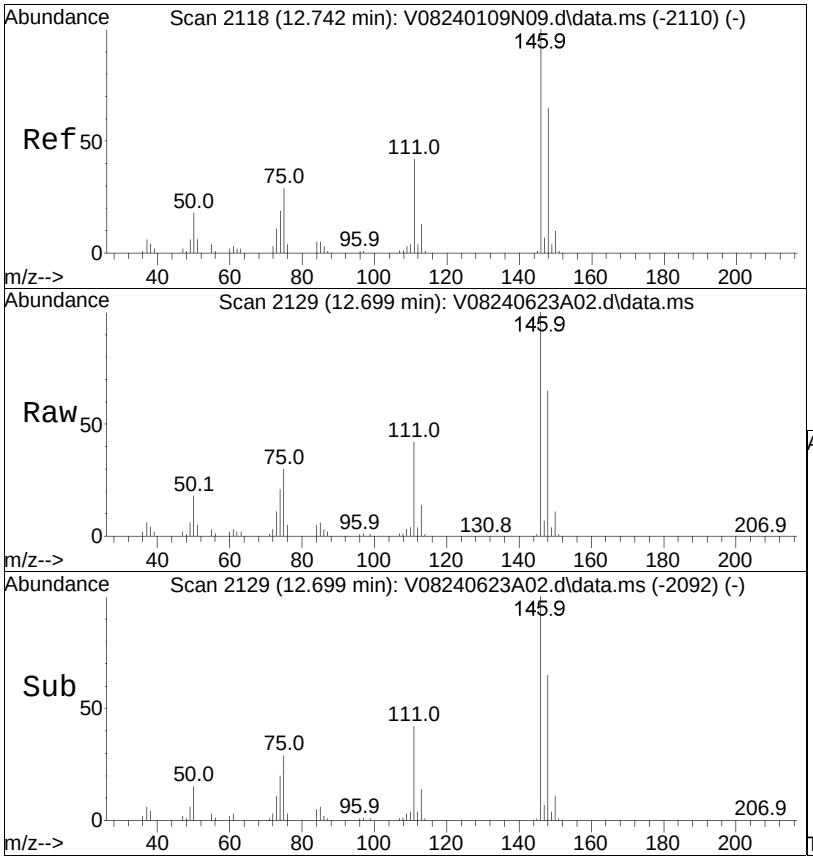


#101
1,4-Dichlorobenzene
Concen: 10.79 ug/L
RT: 12.280 min Scan# 2049
Delta R.T. -0.000 min
Lab File: V08240623A02.d
Acq: 23 Jun 2024 11:50 am

Tgt Ion:146 Resp: 169316

Ion	Ratio	Lower	Upper
146	100		
111	40.3	32.3	48.5
148	64.9	49.9	74.9

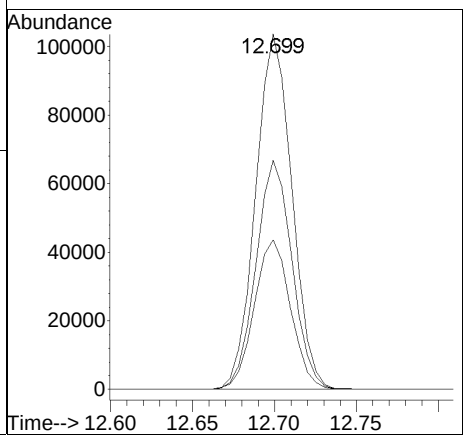


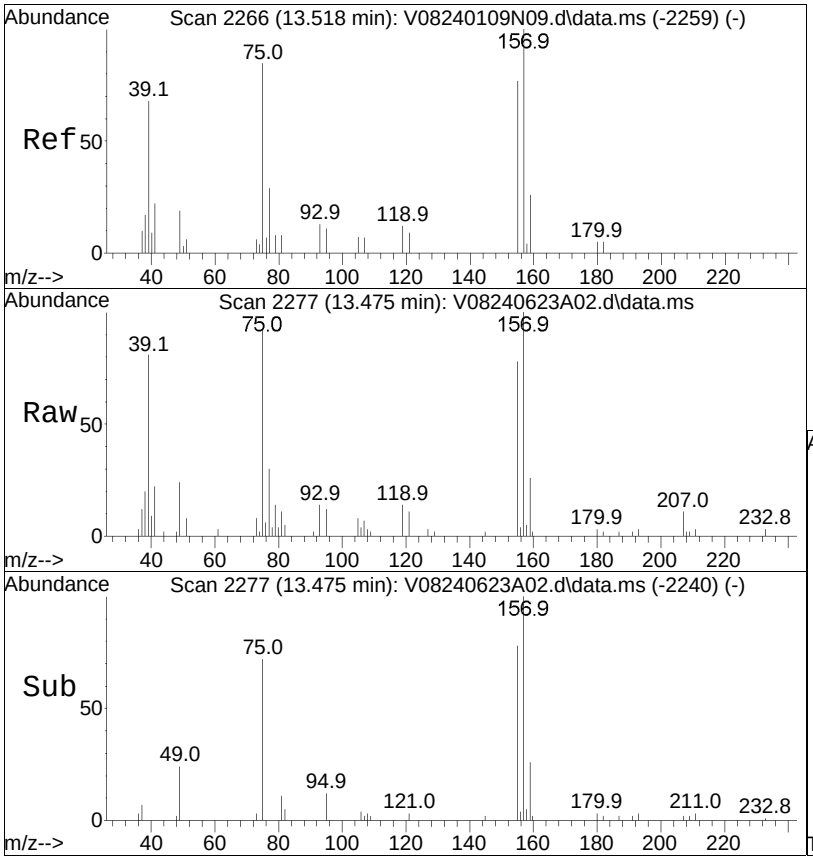


#104
1,2-Dichlorobenzene
Concen: 10.86 ug/L
RT: 12.699 min Scan# 2129
Delta R.T. -0.005 min
Lab File: V08240623A02.d
Acq: 23 Jun 2024 11:50 am

Tgt Ion:146 Resp: 159533

Ion	Ratio	Lower	Upper
146	100		
111	42.1	28.3	58.7
148	64.1	42.3	87.8

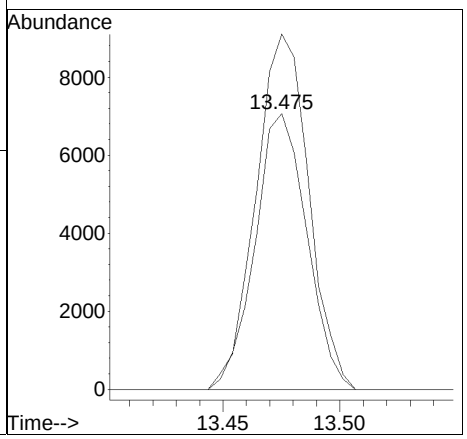


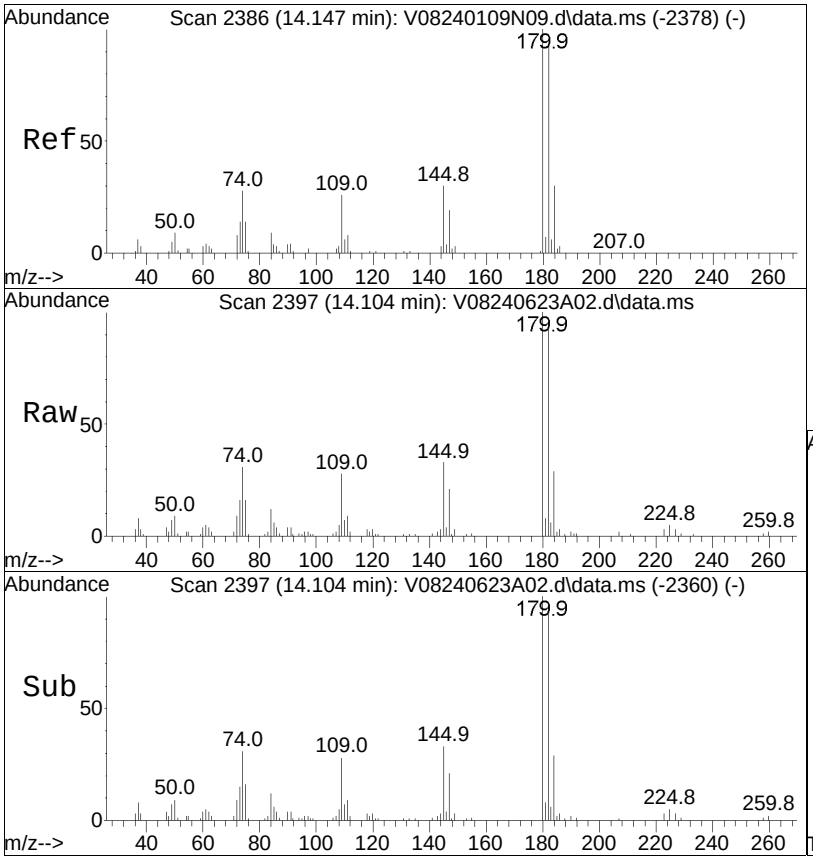


#106
1,2-Dibromo-3-chloropropane
Concen: 10.99 ug/L
RT: 13.475 min Scan# 2277
Delta R.T. -0.005 min
Lab File: V08240623A02.d
Acq: 23 Jun 2024 11:50 am

Tgt Ion:155 Resp: 10876

Ion	Ratio	Lower	Upper
155	100		
157	131.4	94.8	142.2

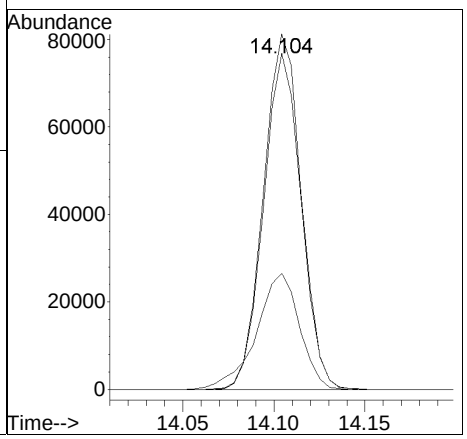


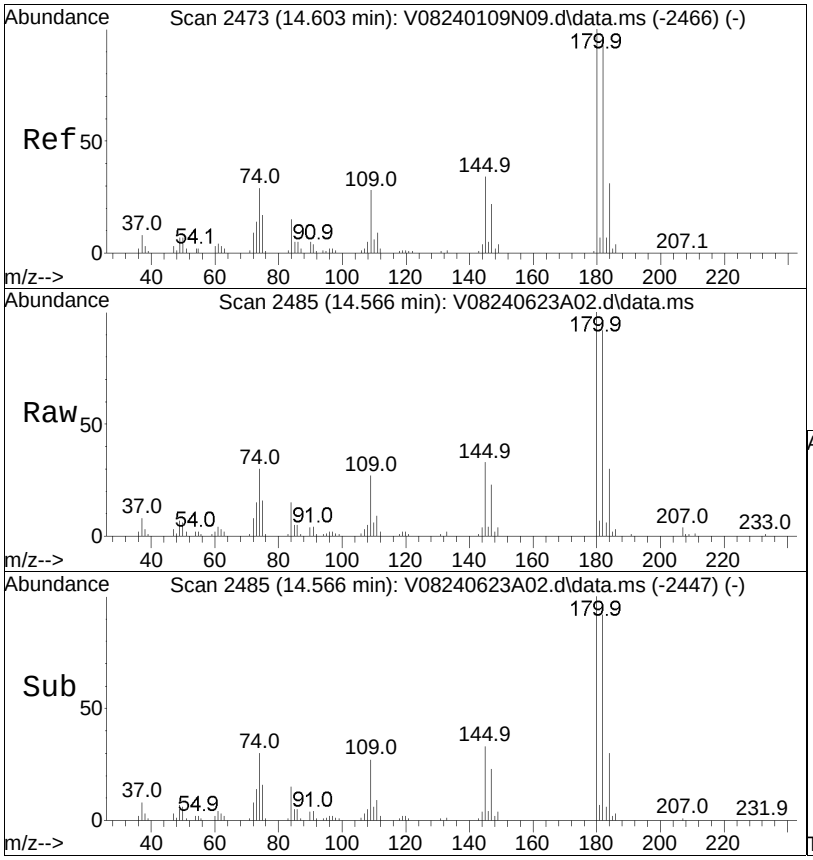


#109
1,2,4-Trichlorobenzene
Concen: 11.09 ug/L
RT: 14.104 min Scan# 2397
Delta R.T. -0.006 min
Lab File: V08240623A02.d
Acq: 23 Jun 2024 11:50 am

Tgt Ion:180 Resp: 117312

Ion	Ratio	Lower	Upper
180	100		
182	93.9	77.3	115.9
145	37.2	28.1	42.1

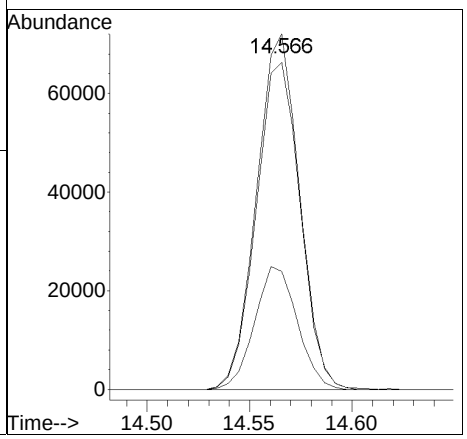




#111
1,2,3-Trichlorobenzene
Concen: 11.01 ug/L
RT: 14.566 min Scan# 2485
Delta R.T. -0.000 min
Lab File: V08240623A02.d
Acq: 23 Jun 2024 11:50 am

Tgt Ion:180 Resp: 104875

Ion	Ratio	Lower	Upper
180	100		
182	94.4	76.4	114.6
145	34.4	26.4	39.6



Manual Integration Report

Data Path	: K:\VOA108\2024\240623A\	QMethod	: V108_240514N_8260.m
Data File	: V08240623A02.d	Operator	: VOA108:PID
Date Inj'd	: 6/23/2024 11:50 am	Instrument	: VOA 108
Sample	: WG1938519-4,31,10,10	Quant Date	: 6/23/2024 12:23 pm

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

Quantitation Report (QT Reviewed)

Data Path : K:\VOA108\2024\240623A\
Data File : V08240623A27.d
Acq On : 23 Jun 2024 9:22 pm
Operator : VOA108:PID
Sample : WG1938519-6,31,10,10,,A1
Misc : WG1938519,ICAL21127
ALS Vial : 27 Sample Multiplier: 1

Quant Time: Jun 24 11:05:47 2024
Quant Method : K:\VOA108\2024\240623A\V108_240514N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed May 15 09:35:21 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA108\2024\240623A\V08240623A01.d
Sub List : 8260-NY_R2 - NYSOM01.2 + NYSTARS

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	6.051	96	380915	10.000	ug/L	0.00
Standard Area 1 = 406145			Recovery = 93.79%			
59) Chlorobenzene-d5	9.574	117	286330	10.000	ug/L	0.00
Standard Area 1 = 302664			Recovery = 94.60%			
79) 1,4-Dichlorobenzene-d4	12.264	152	135580	10.000	ug/L	0.00
Standard Area 1 = 142503			Recovery = 95.14%			
System Monitoring Compounds						
36) Dibromofluoromethane	5.244	113	113249	10.842	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 108.42%			
43) 1,2-Dichloroethane-d4	5.768	65	124866	10.682	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 106.82%			
60) Toluene-d8	7.739	98	378254	10.064	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 100.64%			
83) 4-Bromofluorobenzene	11.063	95	135127	10.467	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 104.67%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.678	85	68019	7.737	ug/L	99
3) Chloromethane	1.867	50	79666	8.815	ug/L	97
4) Vinyl chloride	1.946	62	54397	5.647	ug/L	94
5) Bromomethane	2.255	94	6696	1.378	ug/L	99
6) Chloroethane	2.370	64	24169	4.477	ug/L	94
7) Trichlorofluoromethane	2.512	101	75878	6.021	ug/L	98
10) 1,1-Dichloroethene	3.005	96	47943	7.632	ug/L #	66
11) Carbon disulfide	3.031	76	168400	7.870	ug/L	97
12) Freon-113	3.041	101	49867	7.713	ug/L	95
15) Methylene chloride	3.555	84	64704	8.631	ug/L	73
17) Acetone	3.597	43	15296	10.221	ug/L	89
18) trans-1,2-Dichloroethene	3.707	96	57851	8.127	ug/L	73
19) Methyl acetate	3.713	43	28005	6.951	ug/L #	86
20) Methyl tert-butyl ether	3.812	73	141861	7.398	ug/L	94
23) 1,1-Dichloroethane	4.289	63	109806	7.863	ug/L	97
28) cis-1,2-Dichloroethene	4.803	96	63918	8.013	ug/L #	68
30) Bromochloromethane	4.992	128	30152	7.821	ug/L #	58
31) Cyclohexane	5.002	56	72896	5.826	ug/L #	48
32) Chloroform	5.065	83	112610	8.353	ug/L	97
34) Carbon tetrachloride	5.207	117	99209	9.041	ug/L	98

Data Path : K:\VOA108\2024\240623A\
Data File : V08240623A27.d
Acq On : 23 Jun 2024 9:22 pm
Operator : VOA108:PID
Sample : WG1938519-6,31,10,10,,A1
Misc : WG1938519,ICAL21127
ALS Vial : 27 Sample Multiplier: 1

Quant Time: Jun 24 11:05:47 2024
Quant Method : K:\VOA108\2024\240623A\V108_240514N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed May 15 09:35:21 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA108\2024\240623A\V08240623A01.d
Sub List : 8260-NY_R2 - NYSOM01.2 + NYSTARS

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
37) 1,1,1-Trichloroethane	5.270	97	103348	8.769	ug/L	#	90
39) 2-Butanone	5.354	43	20386	7.847	ug/L		99
41) Benzene	5.637	78	220684	7.472	ug/L		91
44) 1,2-Dichloroethane	5.836	62	77413	7.810	ug/L		95
47) Methyl cyclohexane	6.224	83	74701	6.375	ug/L	#	68
48) Trichloroethene	6.229	95	62678	8.039	ug/L		95
51) 1,2-Dichloropropane	6.769	63	58314	7.437	ug/L		96
54) Bromodichloromethane	6.837	83	85343	7.918	ug/L	#	98
57) 1,4-Dioxane	7.047	88	21002	470.944	ug/L	#	72
58) cis-1,3-Dichloropropene	7.529	75	86622	6.930	ug/L		97
61) Toluene	7.797	92	140851	7.527	ug/L		99
62) 4-Methyl-2-pentanone	8.227	58	13246	6.448	ug/L	#	63
63) Tetrachloroethene	8.243	166	55385	7.151	ug/L		99
65) trans-1,3-Dichloropropene	8.274	75	79633	7.113	ug/L		97
68) 1,1,2-Trichloroethane	8.463	83	40494	7.952	ug/L		91
69) Chlorodibromomethane	8.672	129	64523	8.095	ug/L		99
71) 1,2-Dibromoethane	8.945	107	48810	8.198	ug/L		97
72) 2-Hexanone	9.228	43	26329	6.125	ug/L	#	93
73) Chlorobenzene	9.595	112	164028	7.891	ug/L		99
74) Ethylbenzene	9.637	91	262349	7.391	ug/L		98
76) p/m Xylene	9.826	106	198173	14.224	ug/L		100
77) o Xylene	10.361	106	193981	14.208	ug/L		92
78) Styrene	10.429	104	321118	13.991	ug/L		90
80) Bromoform	10.450	173	36506	8.085	ug/L		95
82) Isopropylbenzene	10.743	105	250752	7.461	ug/L		97
87) 1,1,2,2-Tetrachloroethane	11.299	83	59185	8.724	ug/L		97
100) 1,3-Dichlorobenzene	12.191	146	124483	7.629	ug/L		100
101) 1,4-Dichlorobenzene	12.280	146	125405	7.628	ug/L		96
104) 1,2-Dichlorobenzene	12.704	146	119845	7.792	ug/L		100
106) 1,2-Dibromo-3-chloropr...	13.475	155	9202	8.875	ug/L		94
109) 1,2,4-Trichlorobenzene	14.104	180	82961	7.486	ug/L		96
111) 1,2,3-Trichlorobenzene	14.566	180	76716	7.690	ug/L		98

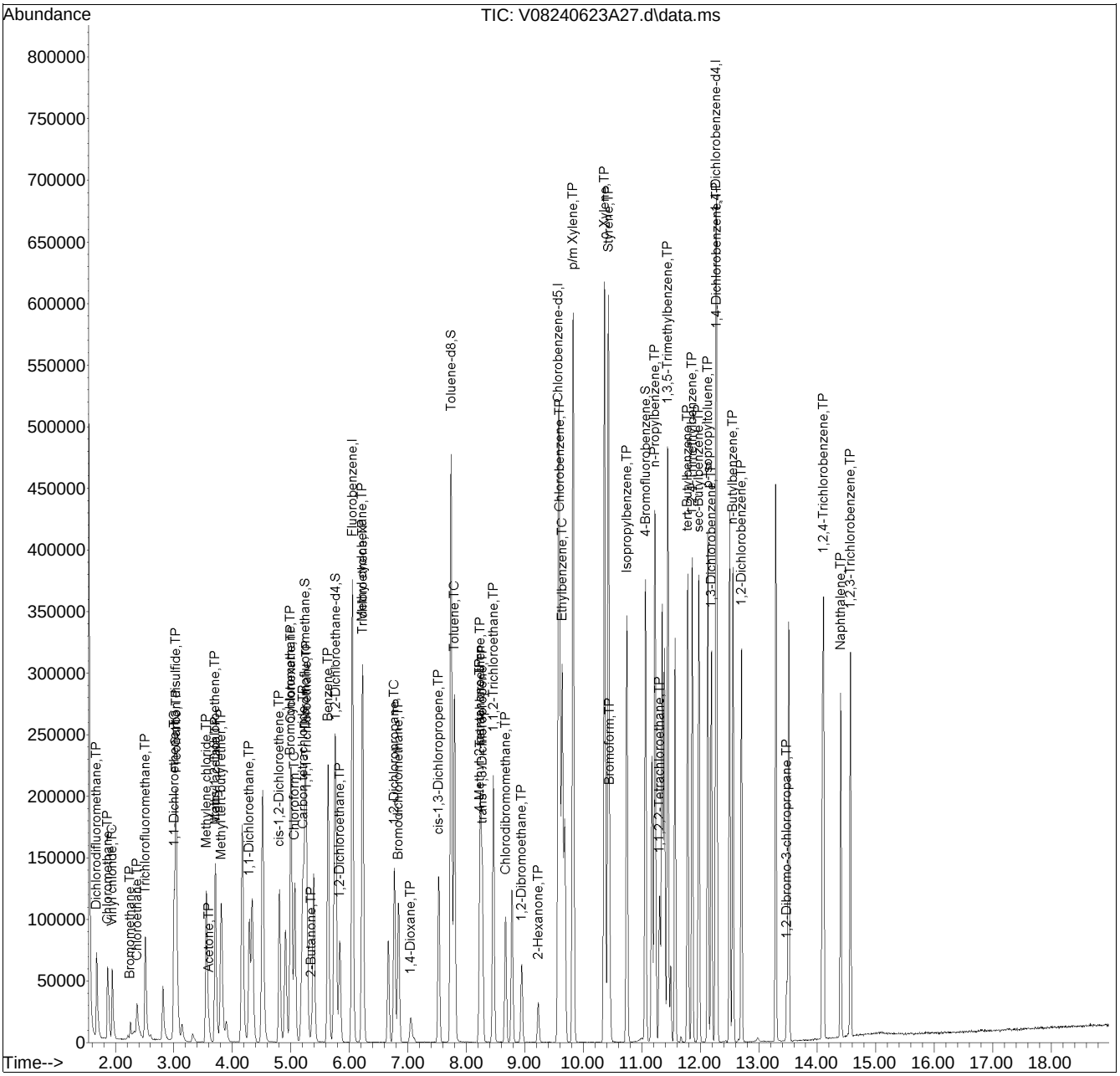
(#) = qualifier out of range (m) = manual integration (+) = signals summed

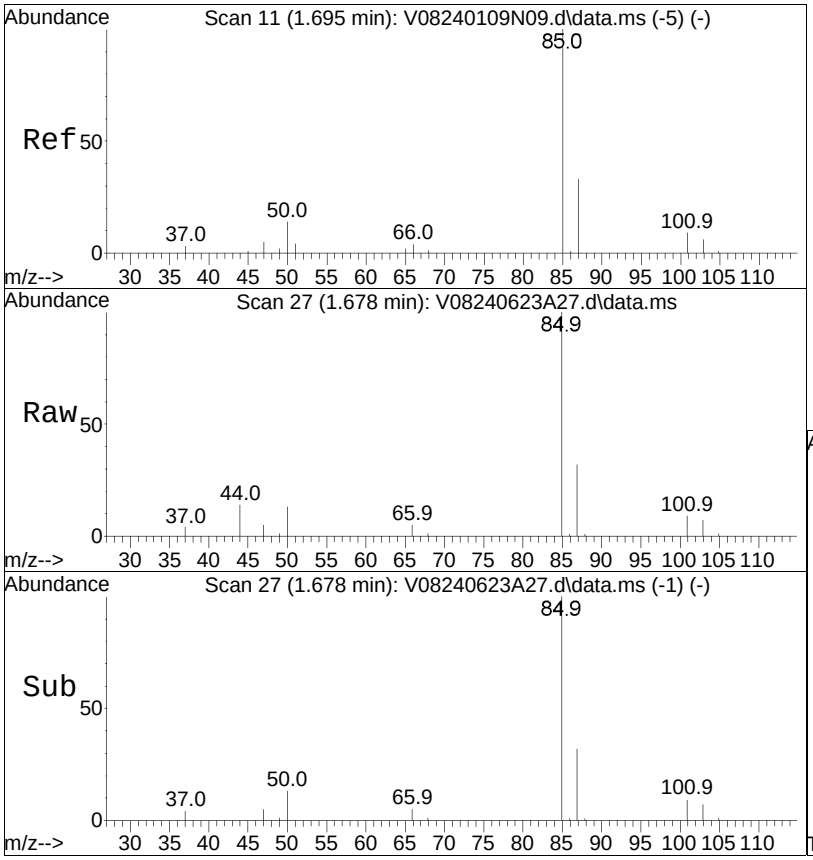
Quantitation Report (QT Reviewed)

Data Path : K:\VOA108\2024\240623A\
Data File : V08240623A27.d
Acq On : 23 Jun 2024 9:22 pm
Operator : VOA108:PID
Sample : WG1938519-6,31,10,10,,A1
Misc : WG1938519,ICAL21127
ALS Vial : 27 Sample Multiplier: 1

Quant Time: Jun 24 11:05:47 2024
Quant Method : K:\VOA108\2024\240623A\V108_240514N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed May 15 09:35:21 2024
Response via : Initial Calibration

Sub List : 8260-NY_R2 - NYSOM01.2 + NYSTARS0623A01.d•

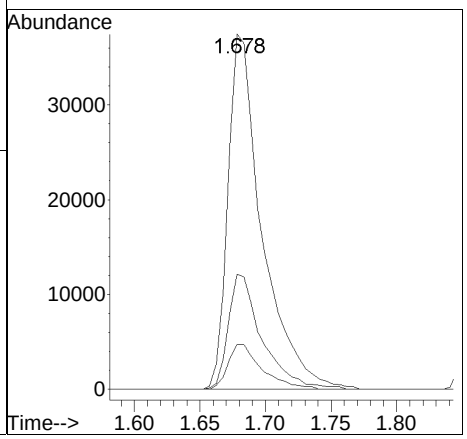


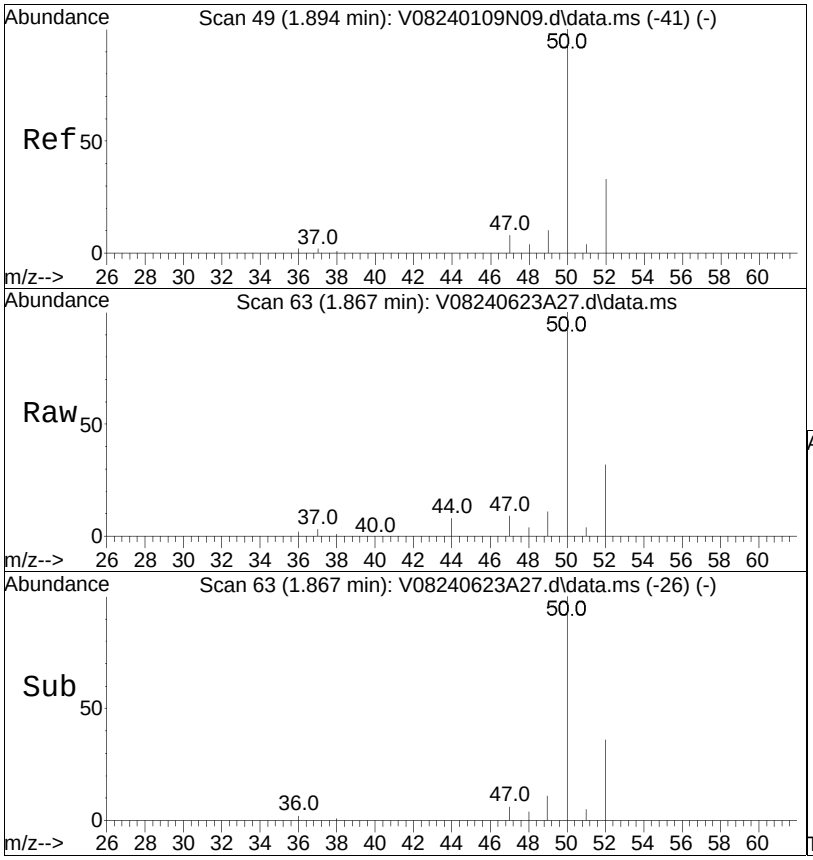


#2
Dichlorodifluoromethane
Concen: 7.74 ug/L
RT: 1.678 min Scan# 27
Delta R.T. 0.000 min
Lab File: V08240623A27.d
Acq: 23 Jun 2024 9:22 pm

Tgt Ion: 85 Resp: 68019

Ion	Ratio	Lower	Upper
85	100		
87	32.1	21.0	43.6
50	12.7	8.9	18.5

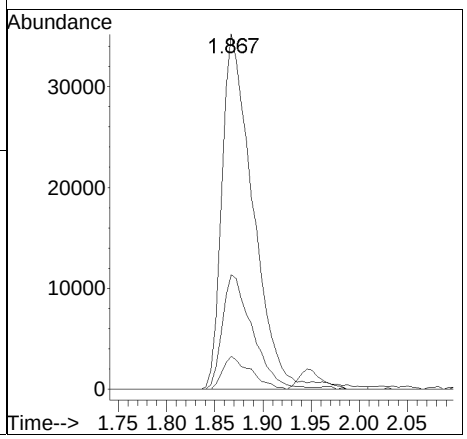


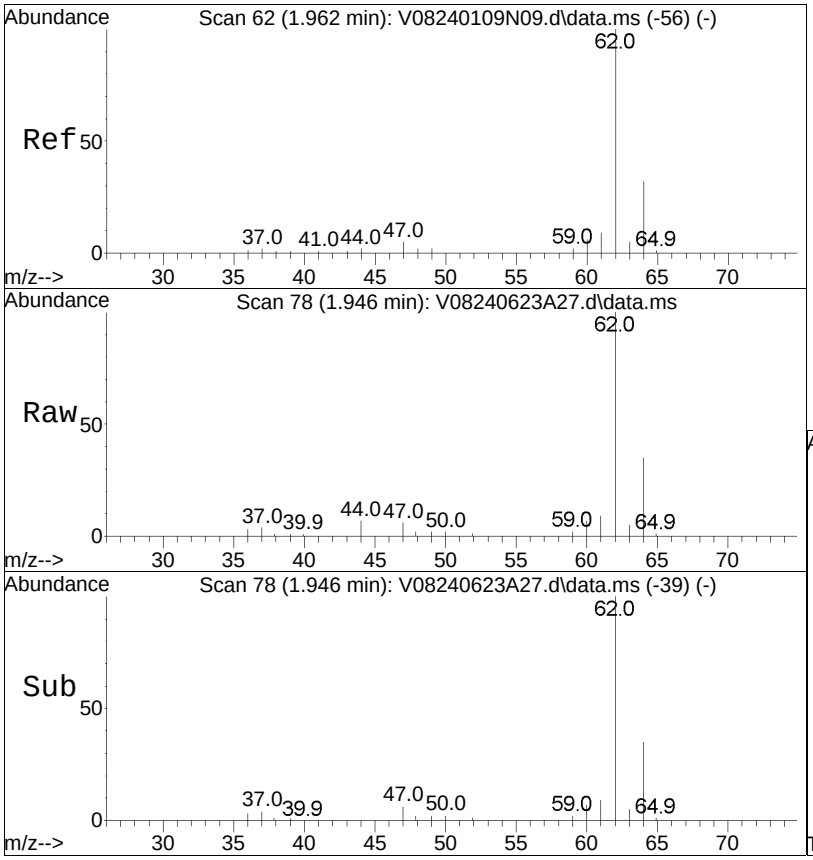


#3
Chloromethane
Concen: 8.81 ug/L
RT: 1.867 min Scan# 63
Delta R.T. -0.005 min
Lab File: V08240623A27.d
Acq: 23 Jun 2024 9:22 pm

Tgt Ion: 50 Resp: 79666

Ion	Ratio	Lower	Upper
50	100		
52	31.1	12.9	52.9
47	8.4	0.0	28.3

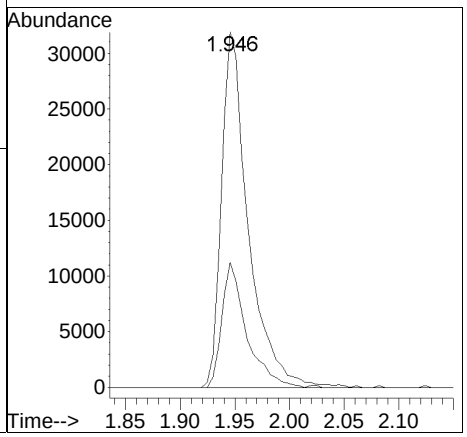


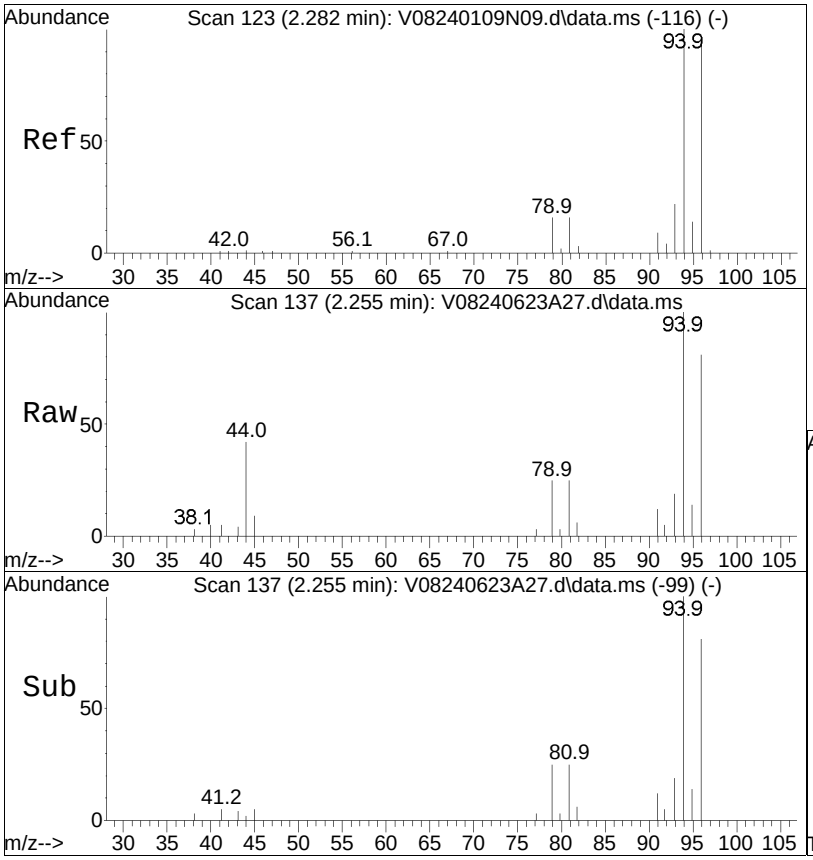


#4
Vinyl chloride
Concen: 5.65 ug/L
RT: 1.946 min Scan# 78
Delta R.T. 0.005 min
Lab File: V08240623A27.d
Acq: 23 Jun 2024 9:22 pm

Tgt Ion: 62 Resp: 54397

Ion	Ratio	Lower	Upper
62	100		
64	32.3	9.1	49.1

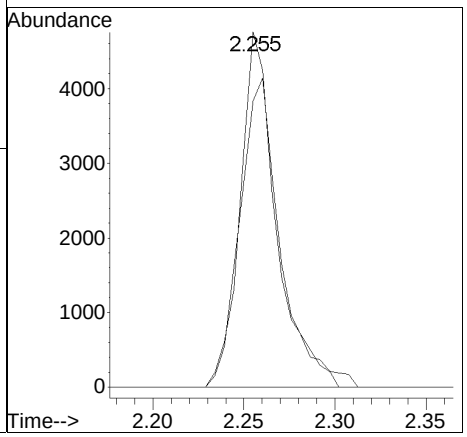


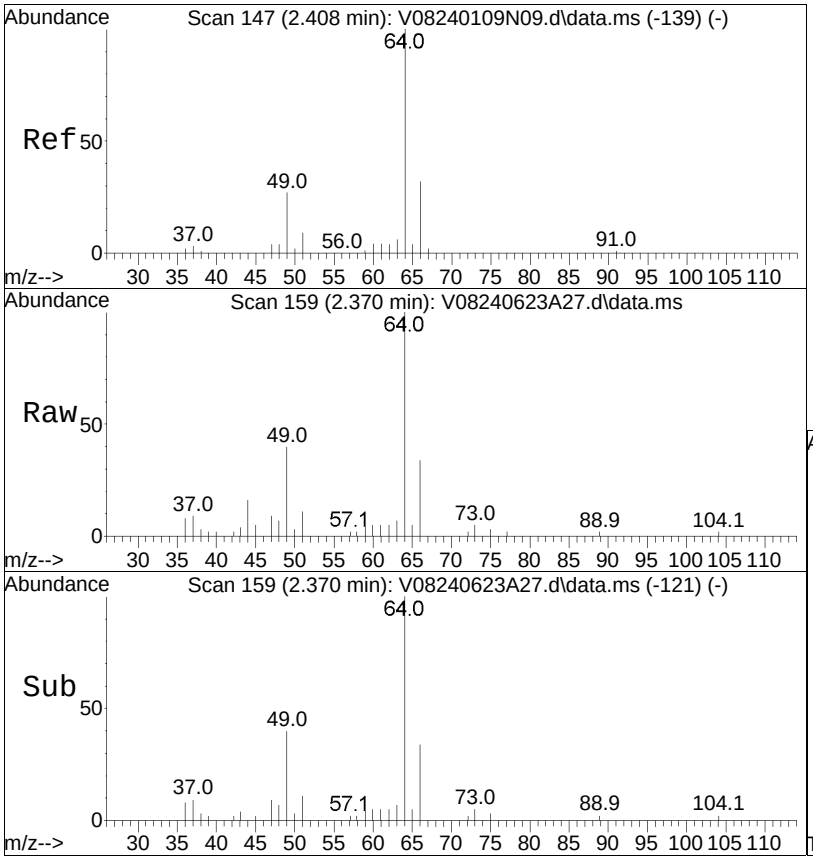


#5
Bromomethane
Concen: 1.38 ug/L
RT: 2.255 min Scan# 137
Delta R.T. -0.000 min
Lab File: V08240623A27.d
Acq: 23 Jun 2024 9:22 pm

Tgt Ion: 94 Resp: 6696

Ion	Ratio	Lower	Upper
94	100		
96	94.5	75.6	115.6

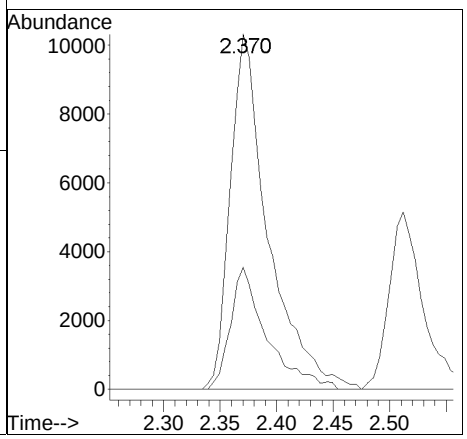


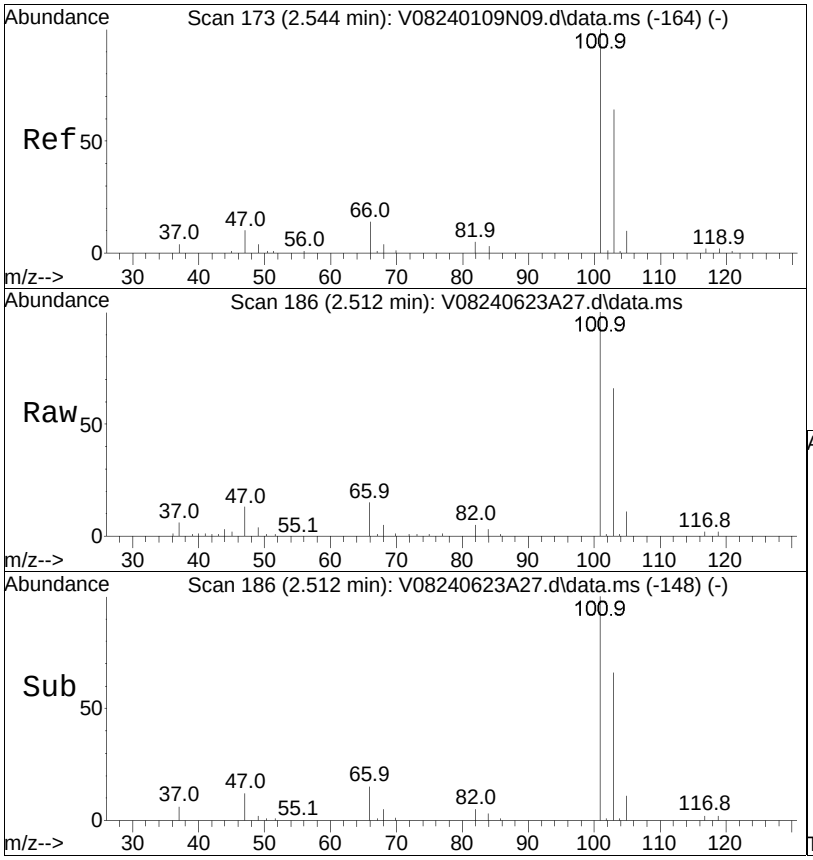


#6
Chloroethane
Concen: 4.48 ug/L
RT: 2.370 min Scan# 159
Delta R.T. 0.000 min
Lab File: V08240623A27.d
Acq: 23 Jun 2024 9:22 pm

Tgt Ion: 64 Resp: 24169

Ion	Ratio	Lower	Upper
64	100		
66	33.0	9.8	49.8

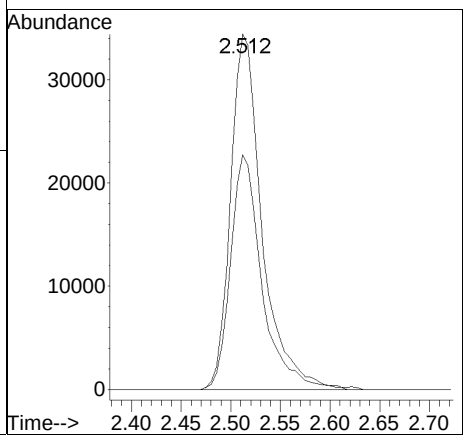


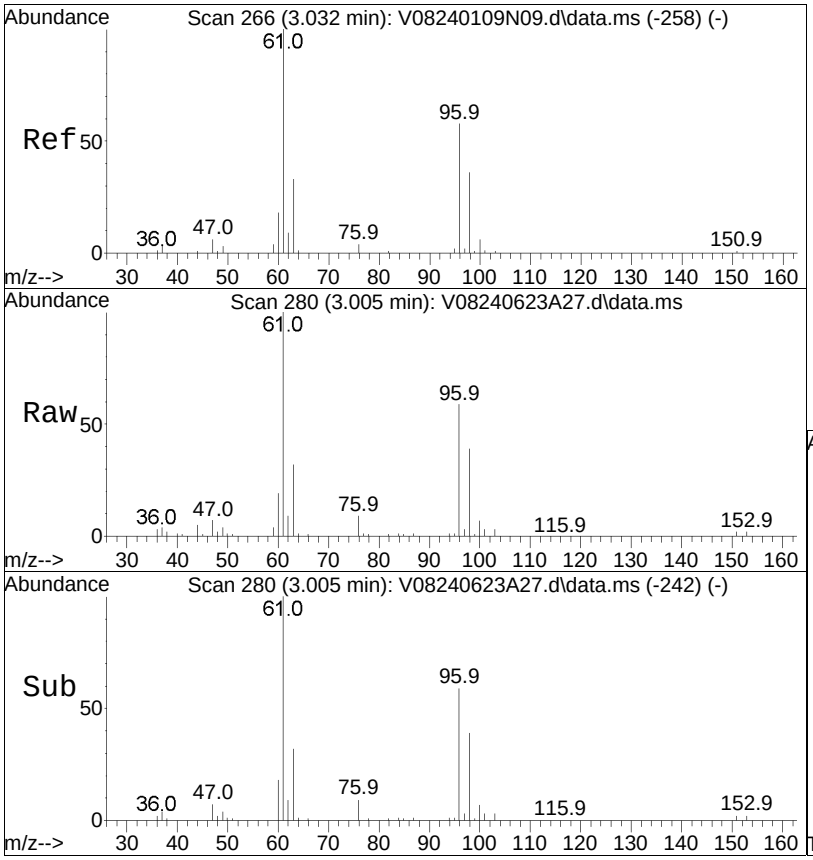


#7
Trichlorofluoromethane
Concen: 6.02 ug/L
RT: 2.512 min Scan# 186
Delta R.T. -0.000 min
Lab File: V08240623A27.d
Acq: 23 Jun 2024 9:22 pm

Tgt Ion:101 Resp: 75878

Ion	Ratio	Lower	Upper
101	100		
103	65.7	53.8	80.6

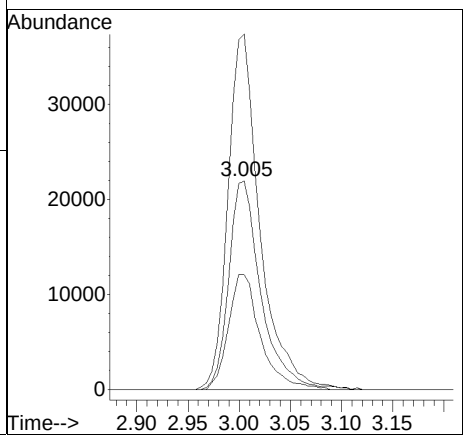


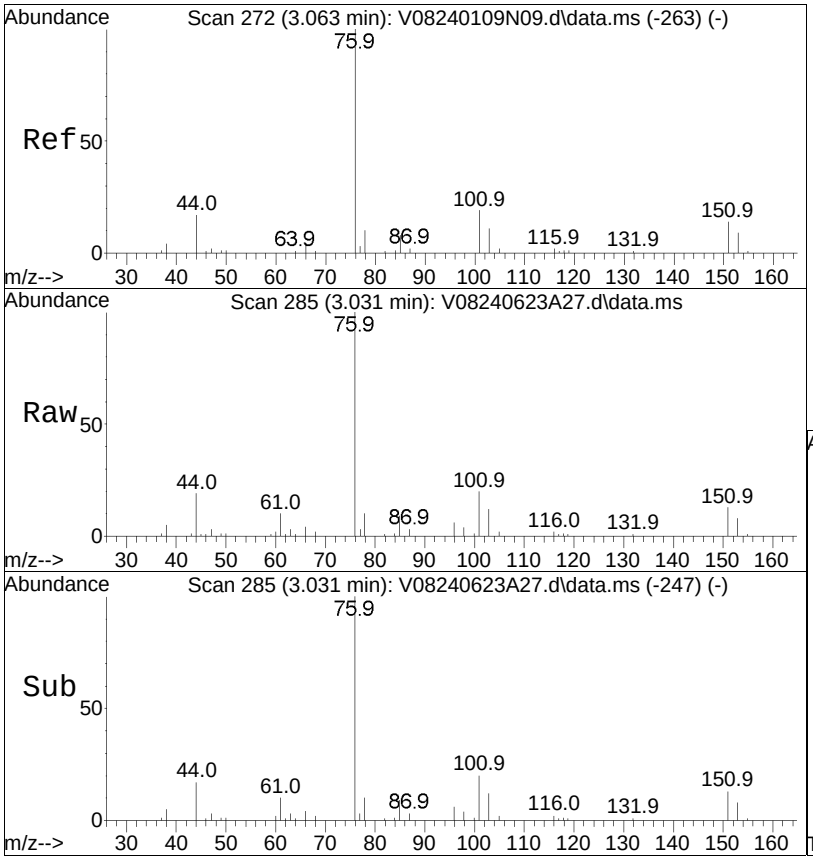


#10
1,1-Dichloroethene
Concen: 7.63 ug/L
RT: 3.005 min Scan# 280
Delta R.T. -0.000 min
Lab File: V08240623A27.d
Acq: 23 Jun 2024 9:22 pm

Tgt Ion: 96 Resp: 47943

Ion	Ratio	Lower	Upper
96	100		
61	169.2	186.1	279.1#
63	55.0	57.6	86.4#

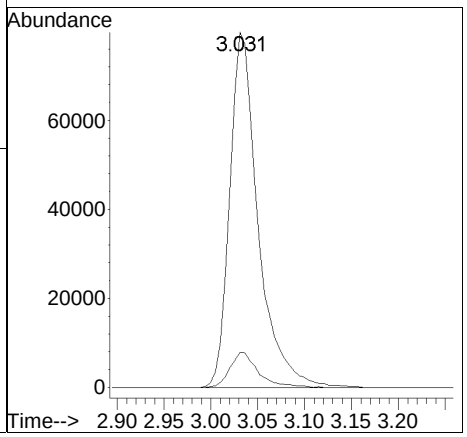


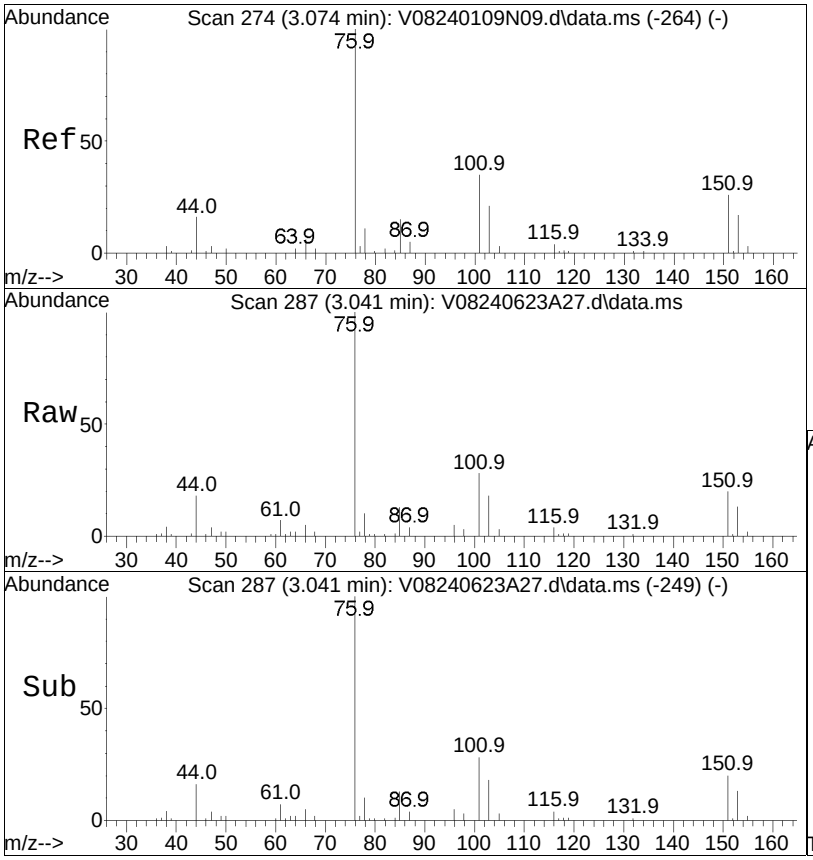


#11
Carbon disulfide
Concen: 7.87 ug/L
RT: 3.031 min Scan# 285
Delta R.T. -0.000 min
Lab File: V08240623A27.d
Acq: 23 Jun 2024 9:22 pm

Tgt Ion: 76 Resp: 168400

Ion	Ratio	Lower	Upper
76	100		
78	9.8	5.7	11.7

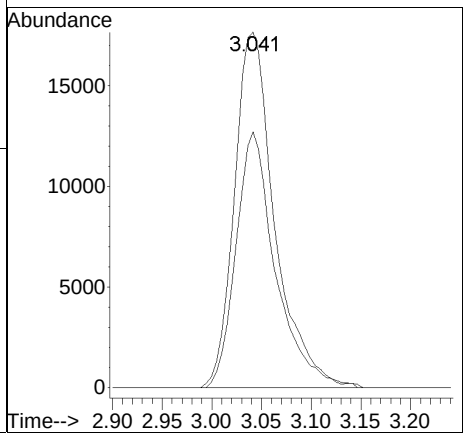


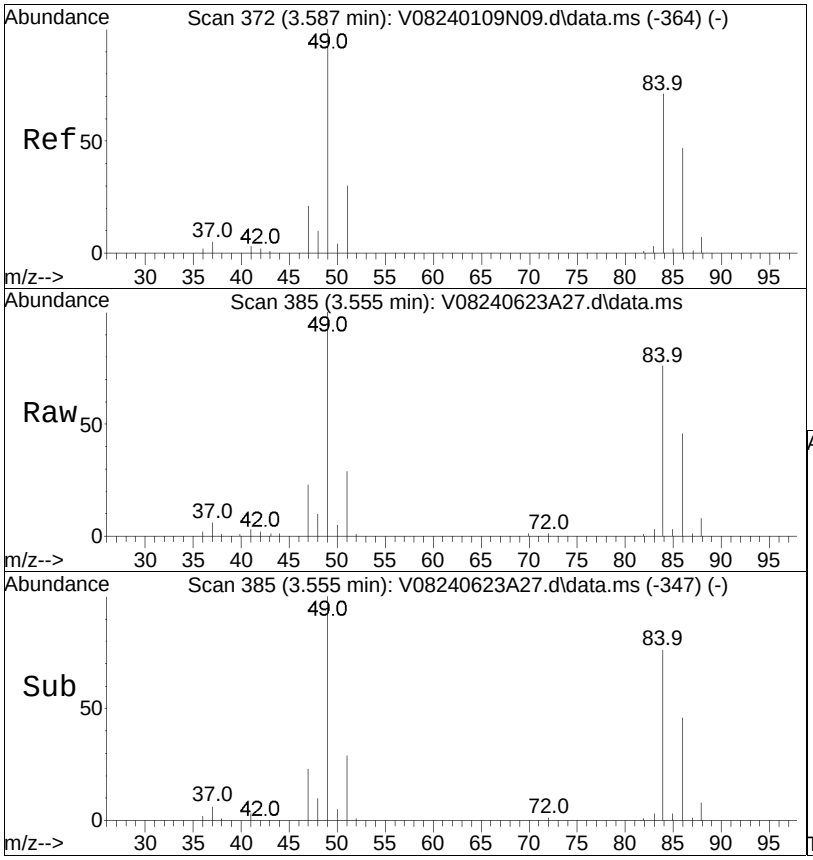


#12
Freon-113
Concen: 7.71 ug/L
RT: 3.041 min Scan# 287
Delta R.T. -0.001 min
Lab File: V08240623A27.d
Acq: 23 Jun 2024 9:22 pm

Tgt Ion:101 Resp: 49867

Ion	Ratio	Lower	Upper
101	100		
151	70.4	59.8	89.8

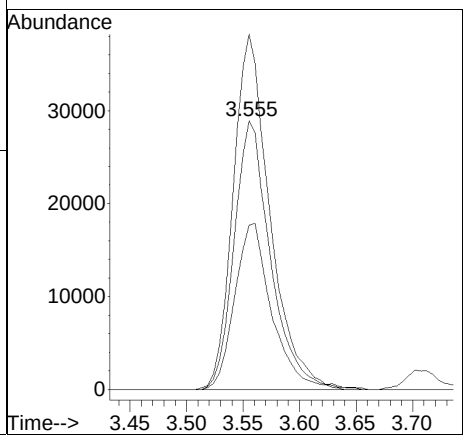


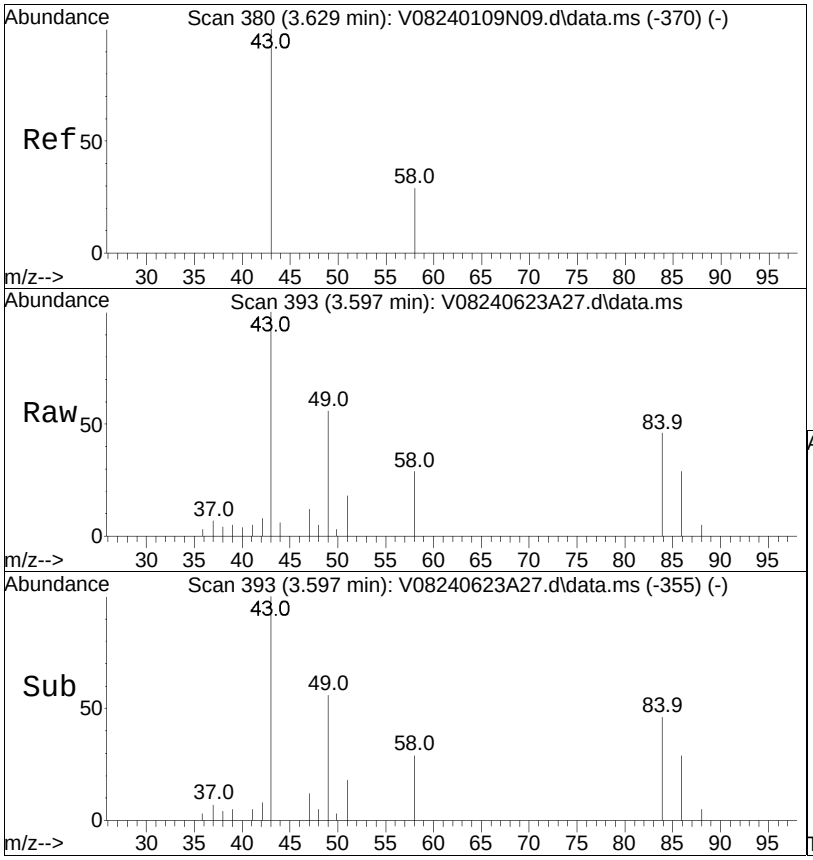


#15
Methylene chloride
Concen: 8.63 ug/L
RT: 3.555 min Scan# 385
Delta R.T. 0.000 min
Lab File: V08240623A27.d
Acq: 23 Jun 2024 9:22 pm

Tgt Ion: 84 Resp: 64704

Ion	Ratio	Lower	Upper
84	100		
86	62.6	40.4	83.8
49	133.8	120.0	249.2

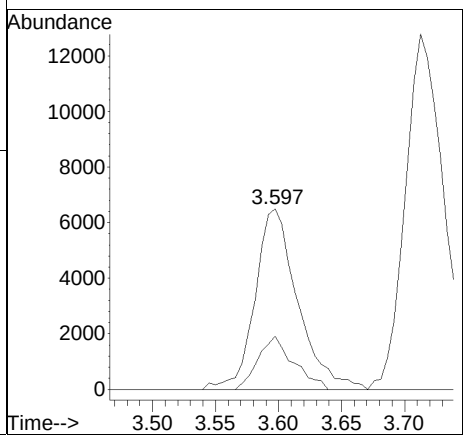


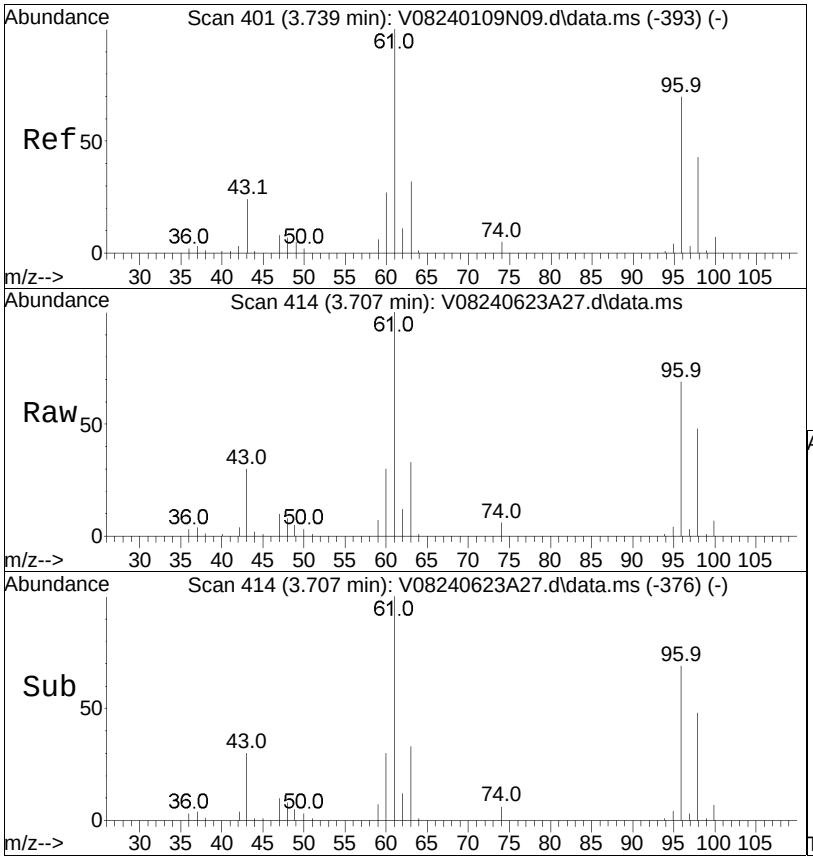


#17
Acetone
Concen: 10.22 ug/L
RT: 3.597 min Scan# 393
Delta R.T. 0.000 min
Lab File: V08240623A27.d
Acq: 23 Jun 2024 9:22 pm

Tgt Ion: 43 Resp: 15296

Ion	Ratio	Lower	Upper
43	100		
58	24.5	24.2	36.4

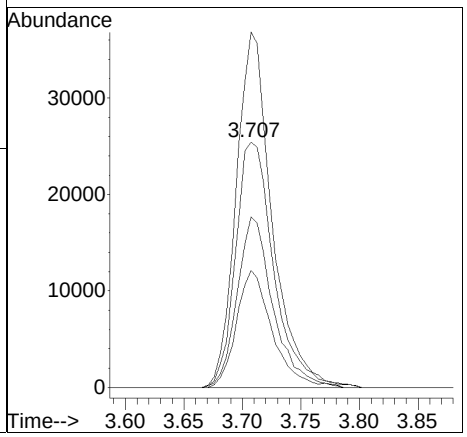


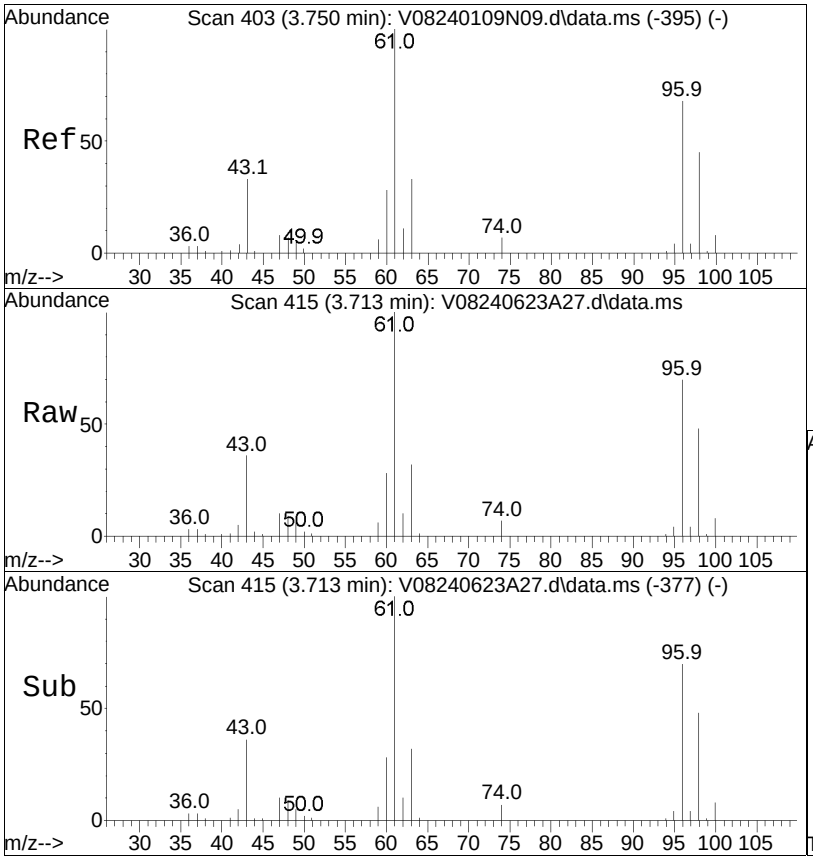


#18
trans-1,2-Dichloroethene
Concen: 8.13 ug/L
RT: 3.707 min Scan# 414
Delta R.T. 0.000 min
Lab File: V08240623A27.d
Acq: 23 Jun 2024 9:22 pm

Tgt Ion: 96 Resp: 57851

Ion	Ratio	Lower	Upper
96	100		
61	135.6	124.0	257.6
98	65.1	41.2	85.6
63	44.5	38.4	79.7

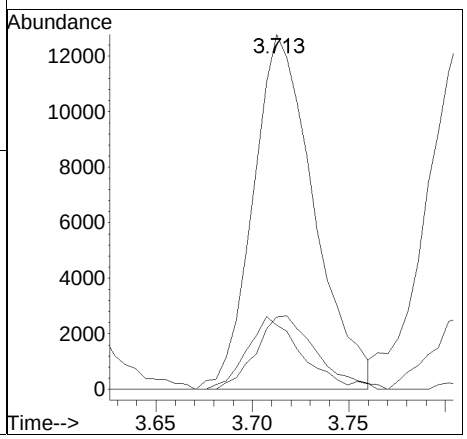


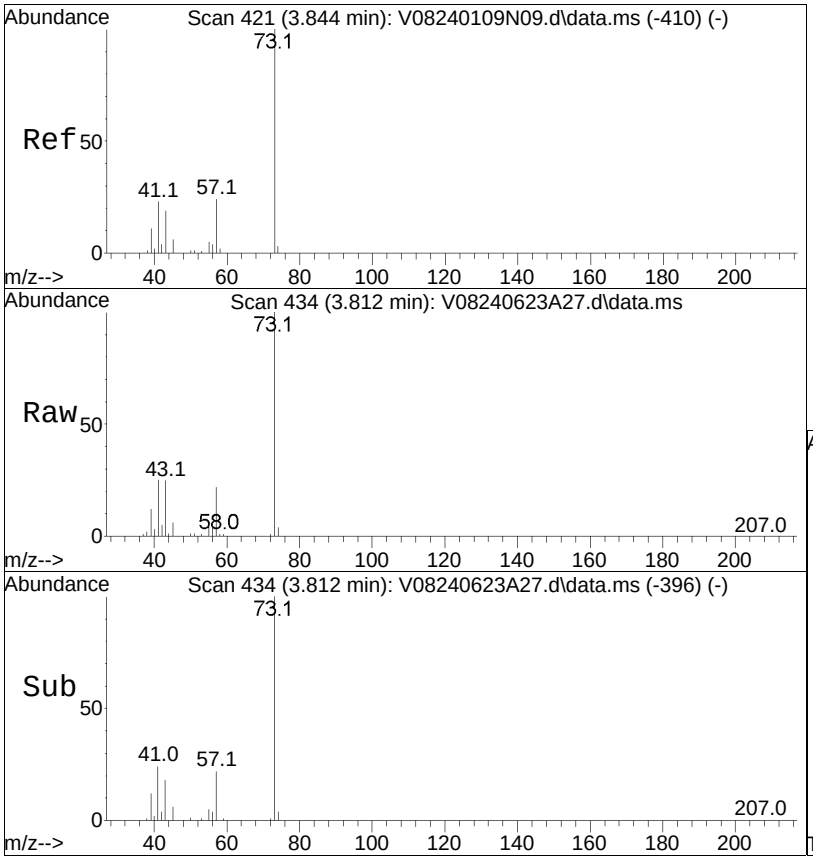


#19
Methyl acetate
Concen: 6.95 ug/L
RT: 3.713 min Scan# 415
Delta R.T. -0.000 min
Lab File: V08240623A27.d
Acq: 23 Jun 2024 9:22 pm

Tgt Ion: 43 Resp: 28005

Ion	Ratio	Lower	Upper
43	100		
74	20.3	14.2	21.4
59	18.7	5.0	7.6#

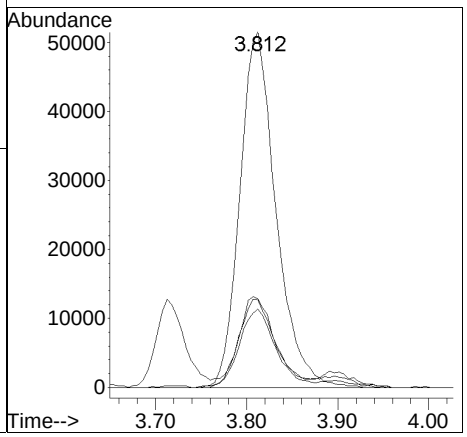


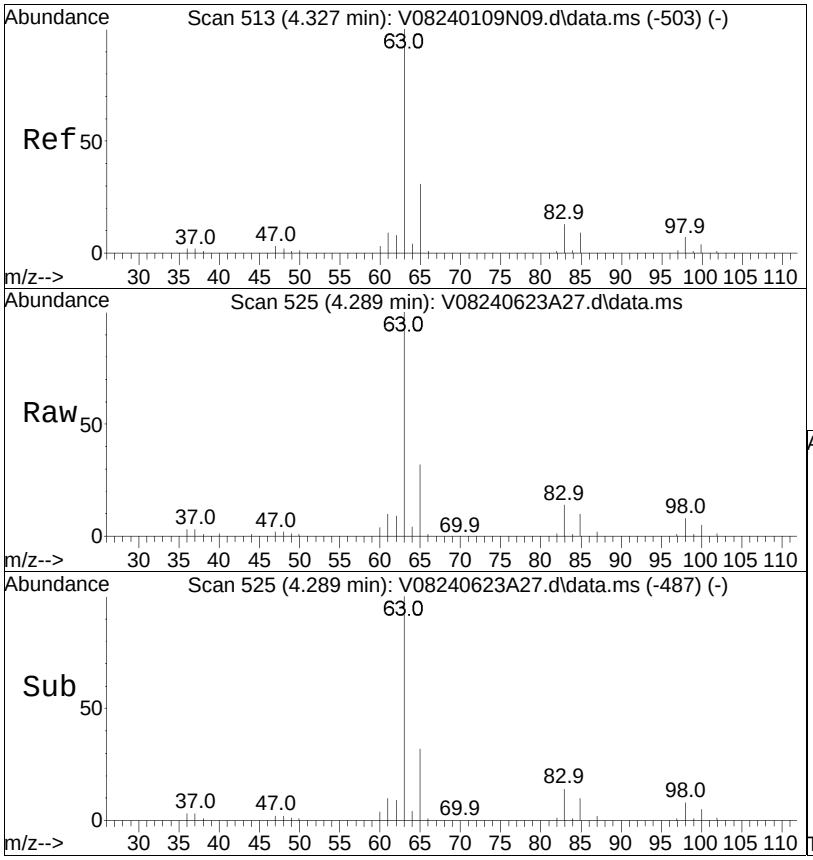


#20
Methyl tert-butyl ether
Concen: 7.40 ug/L
RT: 3.812 min Scan# 434
Delta R.T. 0.000 min
Lab File: V08240623A27.d
Acq: 23 Jun 2024 9:22 pm

Tgt Ion: 73 Resp: 141861

Ion	Ratio	Lower	Upper
73	100		
57	22.2	17.5	36.3
43	25.2	15.3	31.9
41	26.4	15.3	31.7

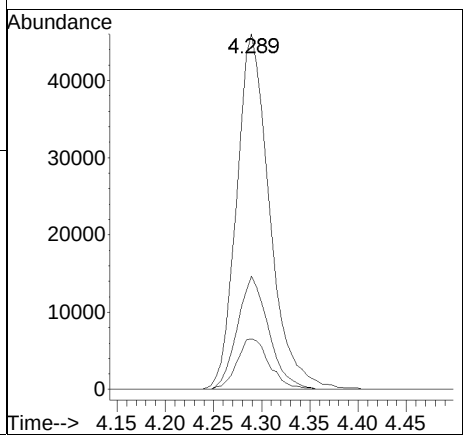


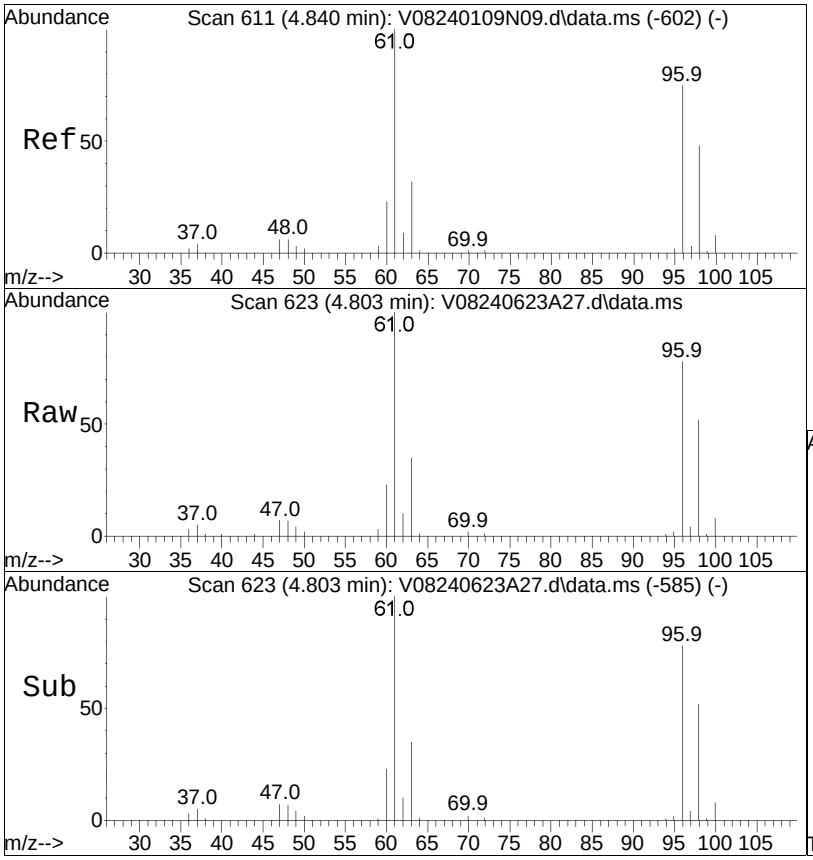


#23
1,1-Dichloroethane
Concen: 7.86 ug/L
RT: 4.289 min Scan# 525
Delta R.T. 0.000 min
Lab File: V08240623A27.d
Acq: 23 Jun 2024 9:22 pm

Tgt Ion: 63 Resp: 109806

Ion	Ratio	Lower	Upper
63	100		
65	30.2	11.0	51.0
83	14.0	0.0	31.8

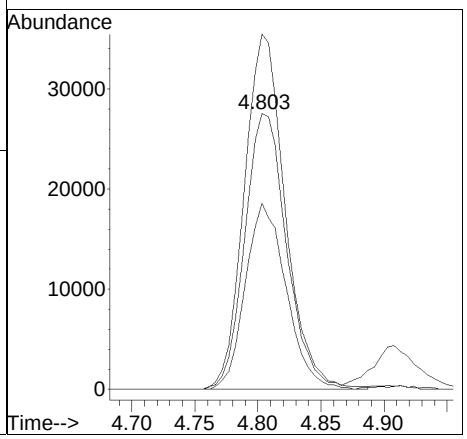


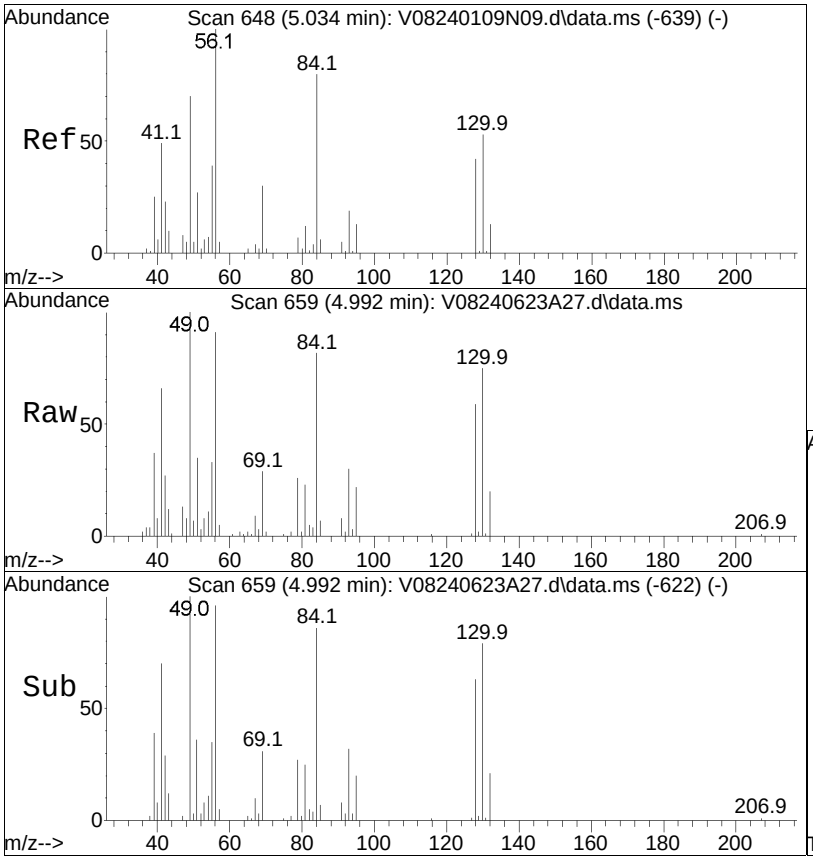


#28
cis-1,2-Dichloroethene
Concen: 8.01 ug/L
RT: 4.803 min Scan# 623
Delta R.T. 0.000 min
Lab File: V08240623A27.d
Acq: 23 Jun 2024 9:22 pm

Tgt Ion: 96 Resp: 63918

Ion	Ratio	Lower	Upper
96	100		
61	124.7	149.4	224.2#
98	65.6	53.4	80.2

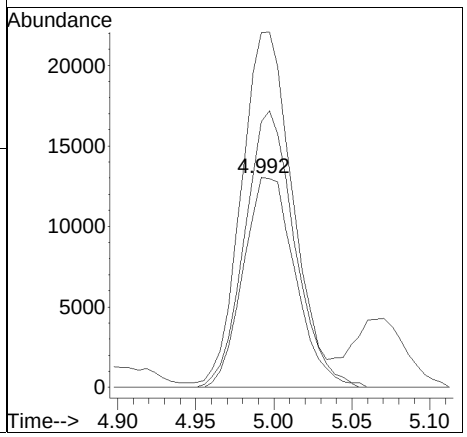


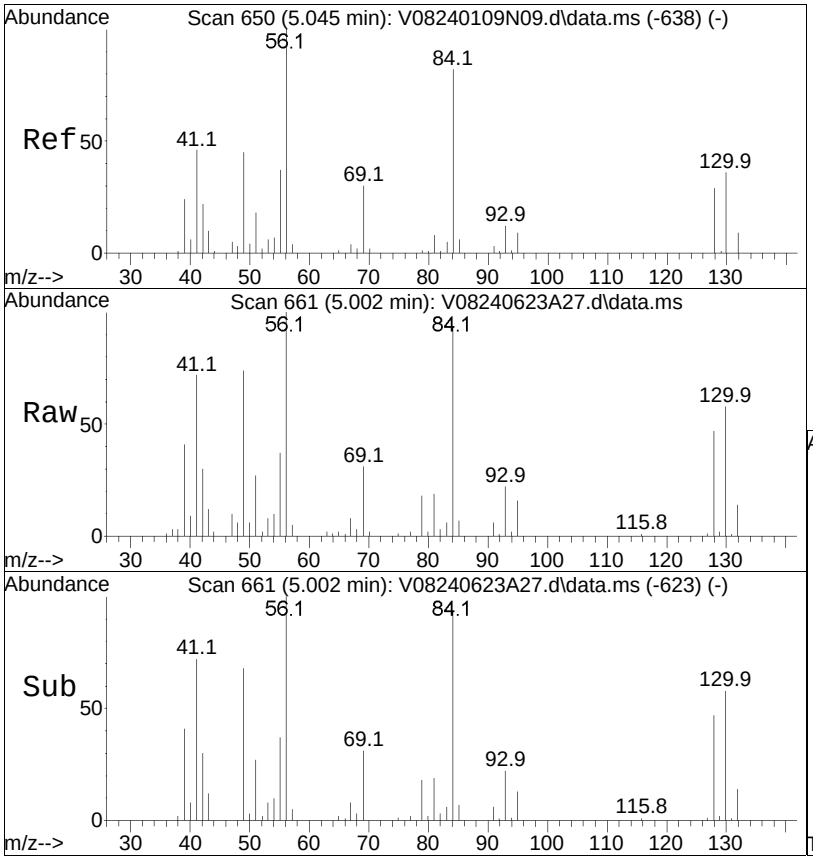


#30
Bromochloromethane
Concen: 7.82 ug/L
RT: 4.992 min Scan# 659
Delta R.T. -0.005 min
Lab File: V08240623A27.d
Acq: 23 Jun 2024 9:22 pm

Tgt Ion:128 Resp: 30152

Ion	Ratio	Lower	Upper
128	100		
49	168.8	223.0	334.4#
130	127.2	111.4	167.0

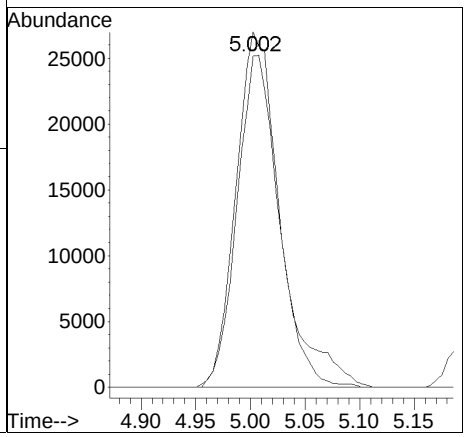


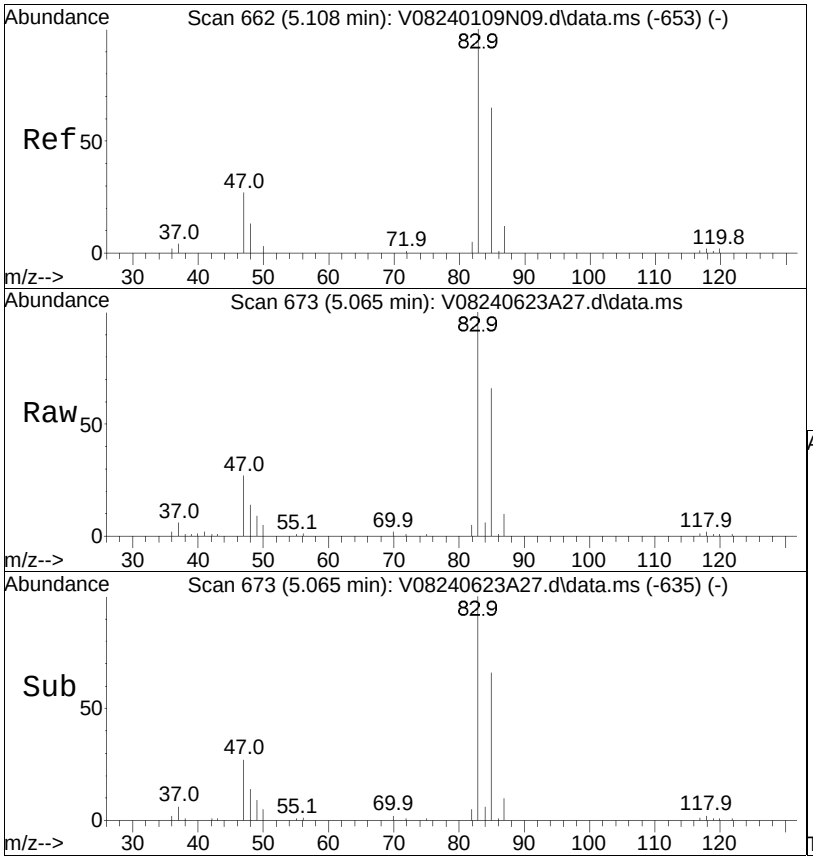


#31
Cyclohexane
Concen: 5.83 ug/L
RT: 5.002 min Scan# 661
Delta R.T. 0.000 min
Lab File: V08240623A27.d
Acq: 23 Jun 2024 9:22 pm

Tgt Ion: 56 Resp: 72896

Ion	Ratio	Lower	Upper
56	100		
84	98.1	38.4	79.8#

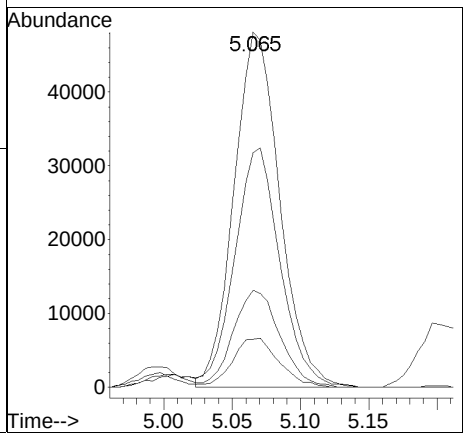


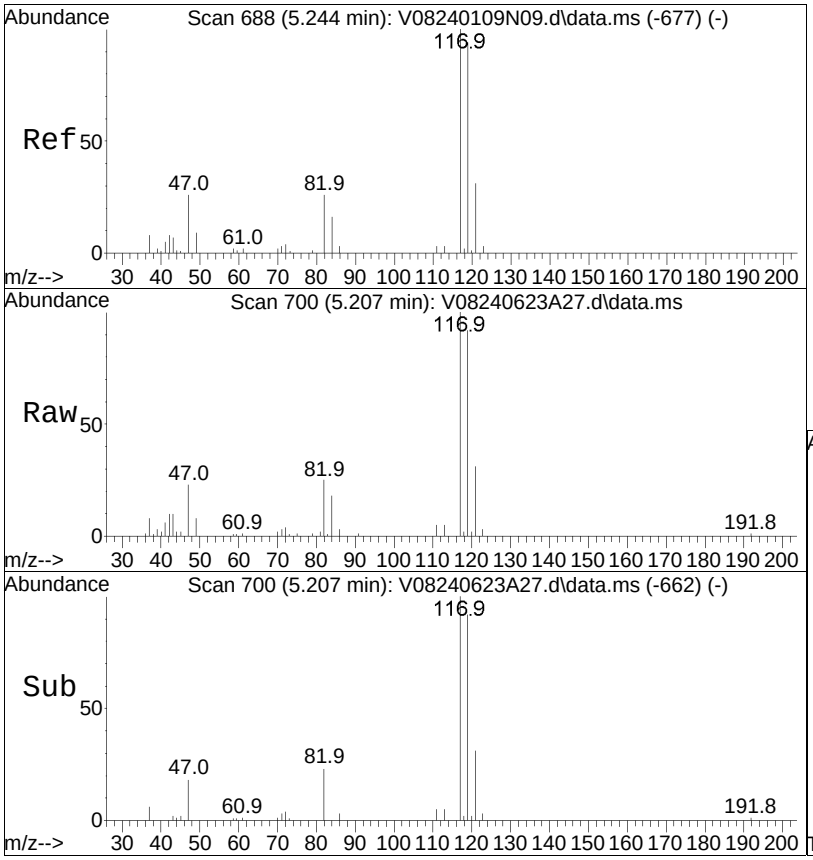


#32
Chloroform
Concen: 8.35 ug/L
RT: 5.065 min Scan# 673
Delta R.T. 0.000 min
Lab File: V08240623A27.d
Acq: 23 Jun 2024 9:22 pm

Tgt Ion: 83 Resp: 112610

Ion	Ratio	Lower	Upper
83	100		
85	66.8	41.5	86.1
47	27.7	19.0	39.4
48	14.1	9.9	20.5

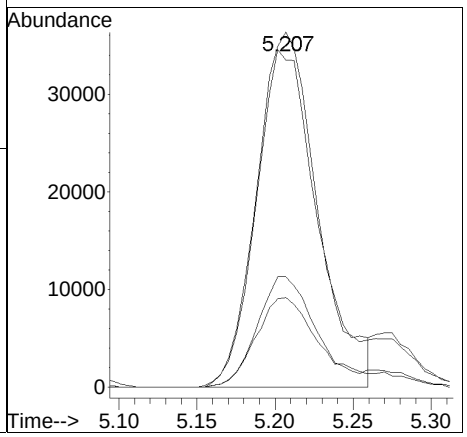


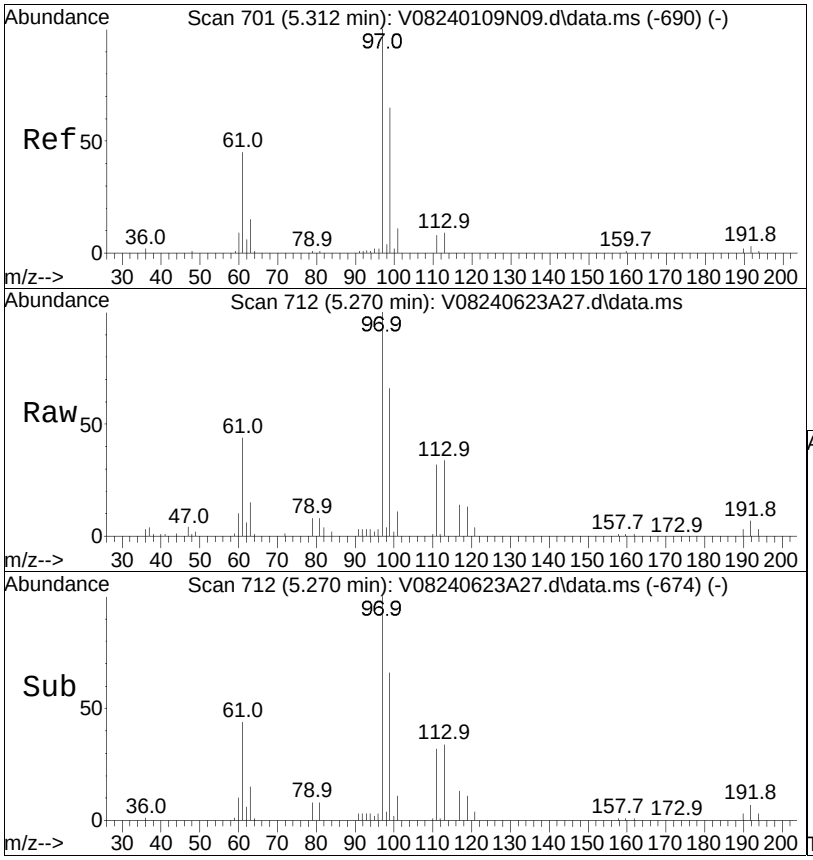


#34
Carbon tetrachloride
Concen: 9.04 ug/L
RT: 5.207 min Scan# 700
Delta R.T. -0.000 min
Lab File: V08240623A27.d
Acq: 23 Jun 2024 9:22 pm

Tgt Ion:117 Resp: 99209

Ion	Ratio	Lower	Upper
117	100		
119	94.9	62.4	129.6
121	30.0	19.5	40.5
82	28.8	17.0	35.4

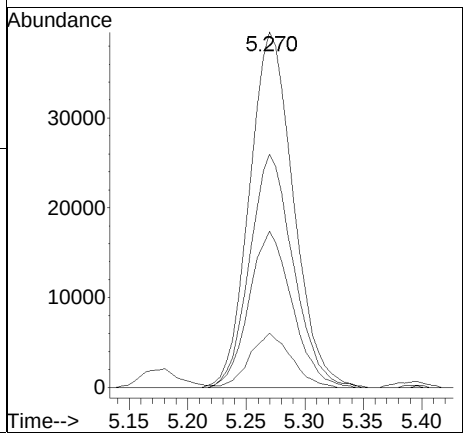


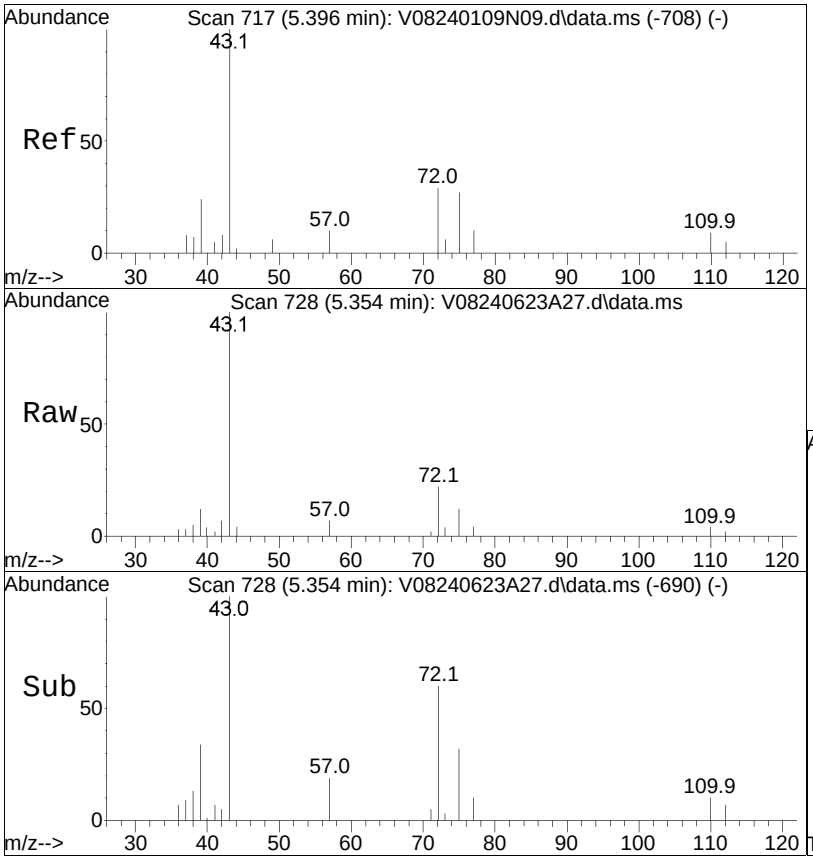


#37
1,1,1-Trichloroethane
Concen: 8.77 ug/L
RT: 5.270 min Scan# 712
Delta R.T. -0.000 min
Lab File: V08240623A27.d
Acq: 23 Jun 2024 9:22 pm

Tgt Ion: 97 Resp: 103348

Ion	Ratio	Lower	Upper
97	100		
99	65.1	40.7	84.5
61	43.3	35.4	73.4
63	14.5	5.0	10.4#

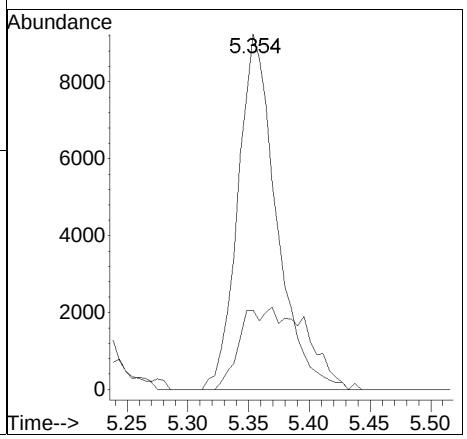


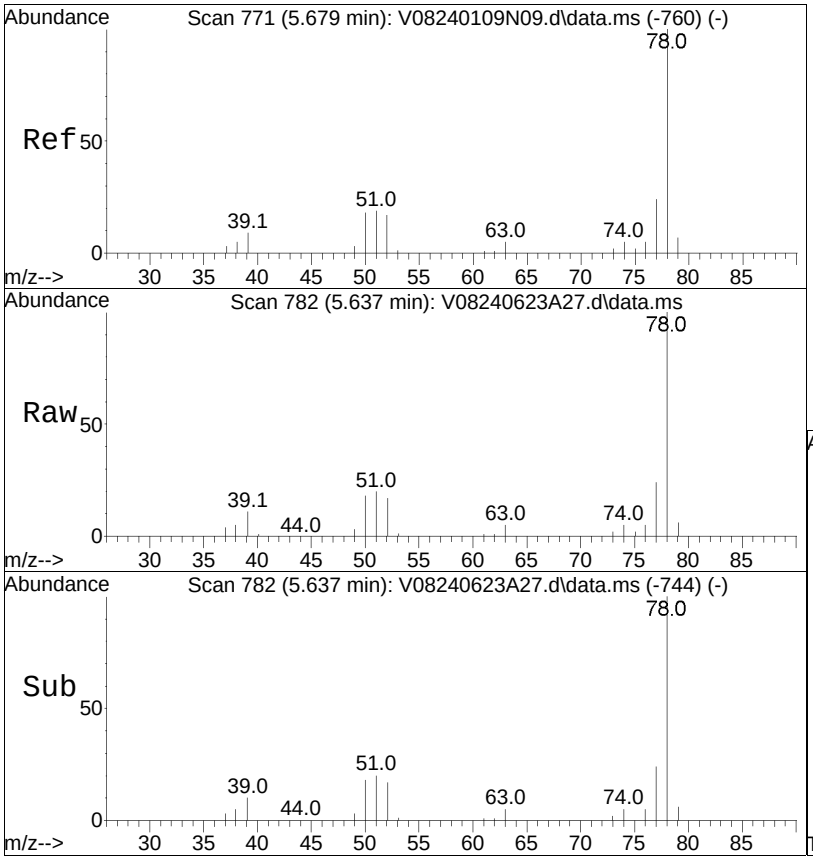


#39
2-Butanone
Concen: 7.85 ug/L
RT: 5.354 min Scan# 728
Delta R.T. -0.000 min
Lab File: V08240623A27.d
Acq: 23 Jun 2024 9:22 pm

Tgt Ion: 43 Resp: 20386

Ion	Ratio	Lower	Upper
43	100		
72	13.3	10.9	16.3

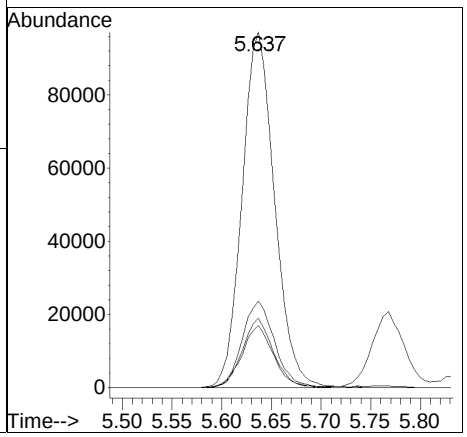


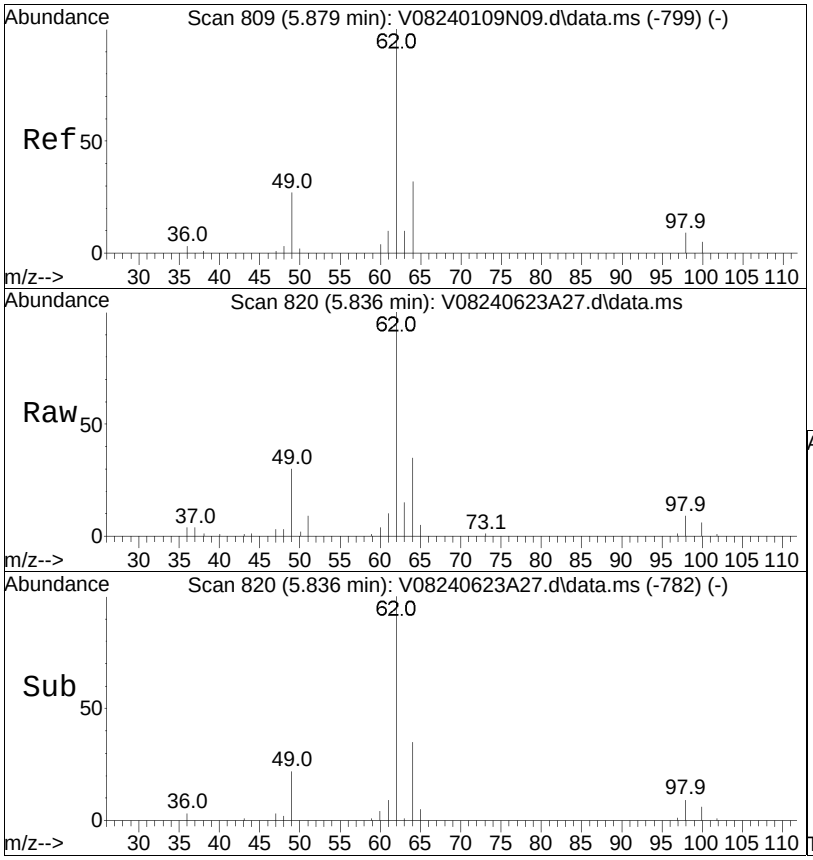


#41
Benzene
Concen: 7.47 ug/L
RT: 5.637 min Scan# 782
Delta R.T. -0.000 min
Lab File: V08240623A27.d
Acq: 23 Jun 2024 9:22 pm

Tgt Ion: 78 Resp: 220684

Ion	Ratio	Lower	Upper
78	100		
77	24.2	15.7	32.7
51	18.5	16.0	33.2
52	16.8	15.3	31.9

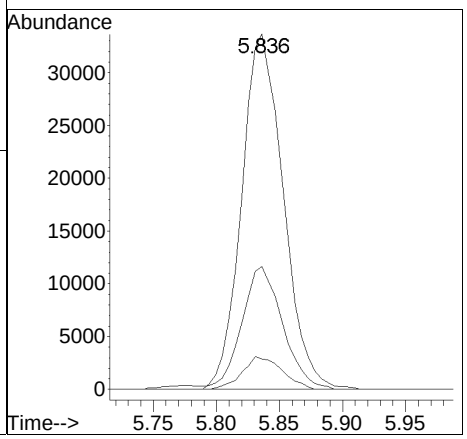


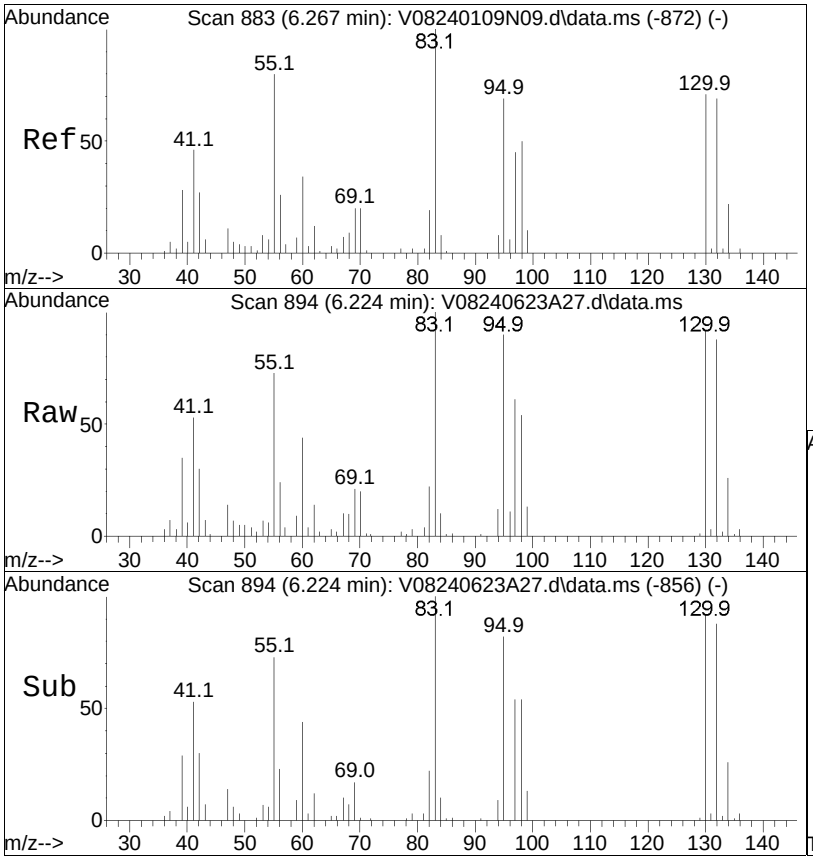


#44
1,2-Dichloroethane
Concen: 7.81 ug/L
RT: 5.836 min Scan# 820
Delta R.T. -0.000 min
Lab File: V08240623A27.d
Acq: 23 Jun 2024 9:22 pm

Tgt Ion: 62 Resp: 77413

Ion	Ratio	Lower	Upper
62	100		
64	33.9	11.2	51.2
98	8.9	0.0	26.1

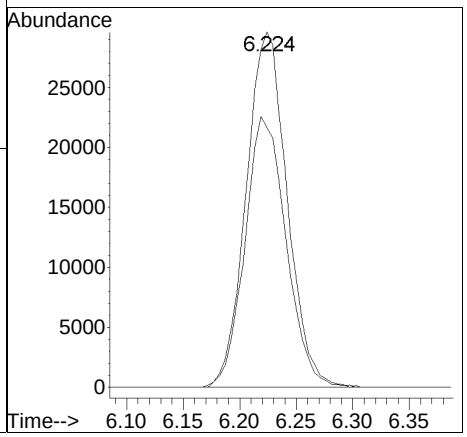


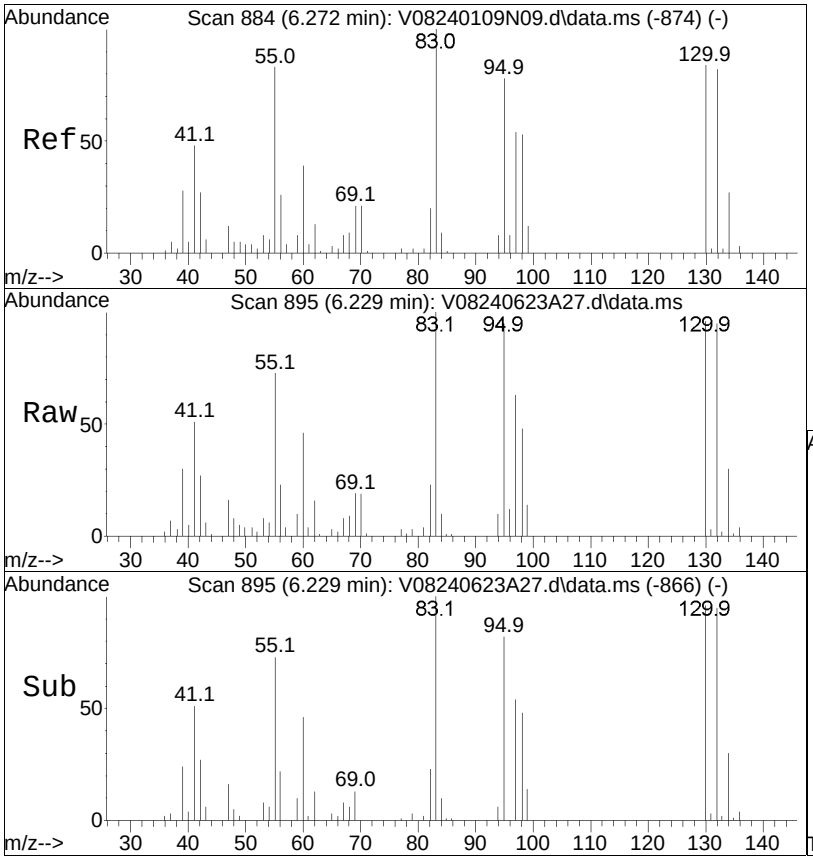


#47
Methyl cyclohexane
Concen: 6.38 ug/L
RT: 6.224 min Scan# 894
Delta R.T. -0.000 min
Lab File: V08240623A27.d
Acq: 23 Jun 2024 9:22 pm

Tgt Ion: 83 Resp: 74701

Ion	Ratio	Lower	Upper
83	100		
55	76.6	88.3	132.5#

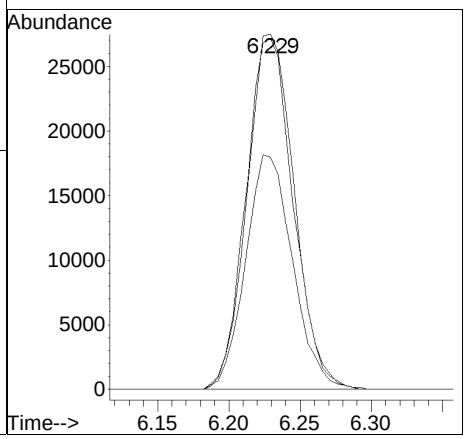


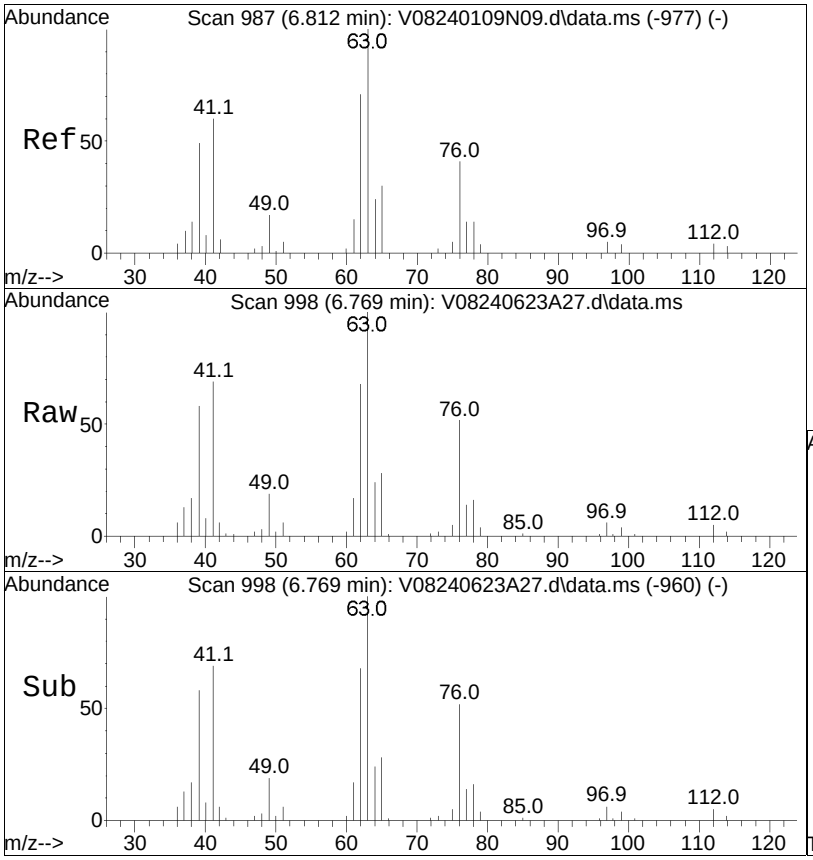


#48
Trichloroethene
Concen: 8.04 ug/L
RT: 6.229 min Scan# 895
Delta R.T. 0.000 min
Lab File: V08240623A27.d
Acq: 23 Jun 2024 9:22 pm

Tgt Ion: 95 Resp: 62678

Ion	Ratio	Lower	Upper
95	100		
97	66.4	55.5	83.3
130	101.0	76.6	115.0

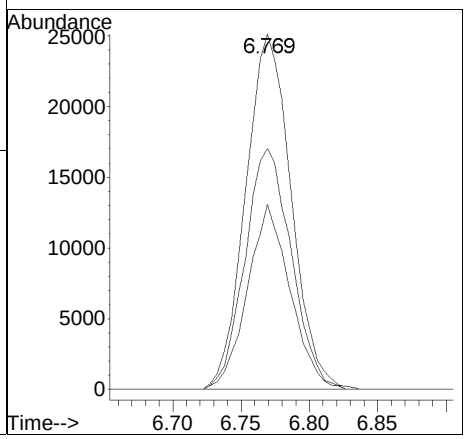


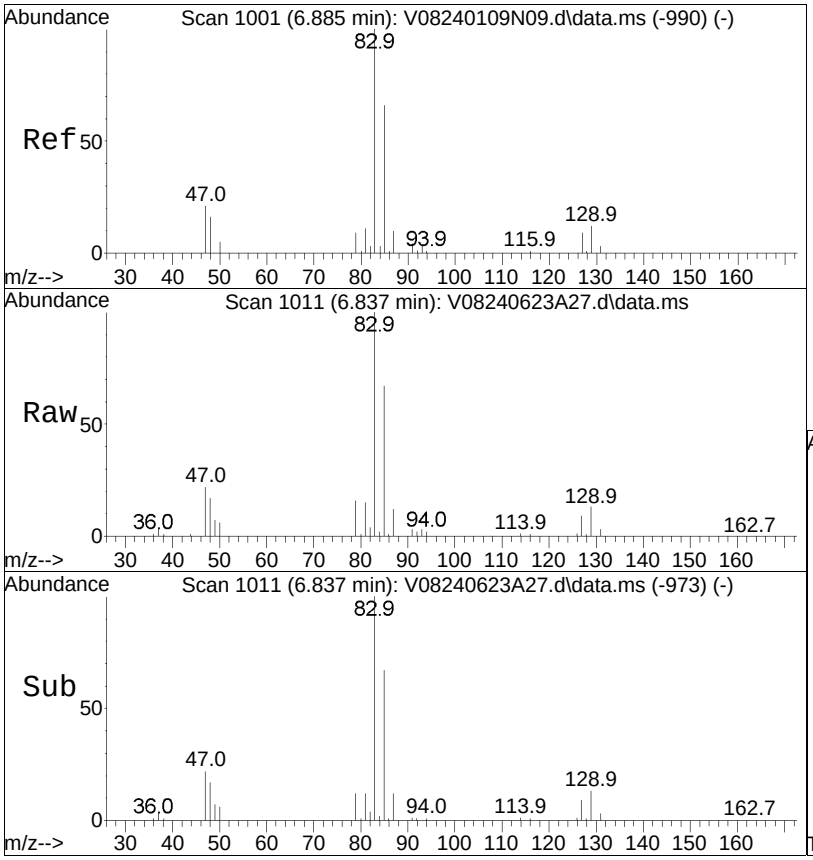


#51
1,2-Dichloropropane
Concen: 7.44 ug/L
RT: 6.769 min Scan# 998
Delta R.T. 0.000 min
Lab File: V08240623A27.d
Acq: 23 Jun 2024 9:22 pm

Tgt Ion: 63 Resp: 58314

Ion	Ratio	Lower	Upper
63	100		
62	69.0	58.6	87.8
76	48.8	38.0	57.0

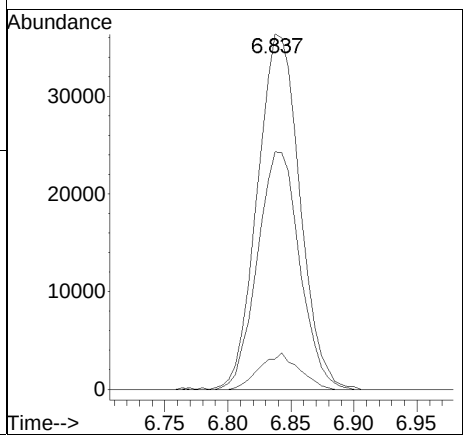


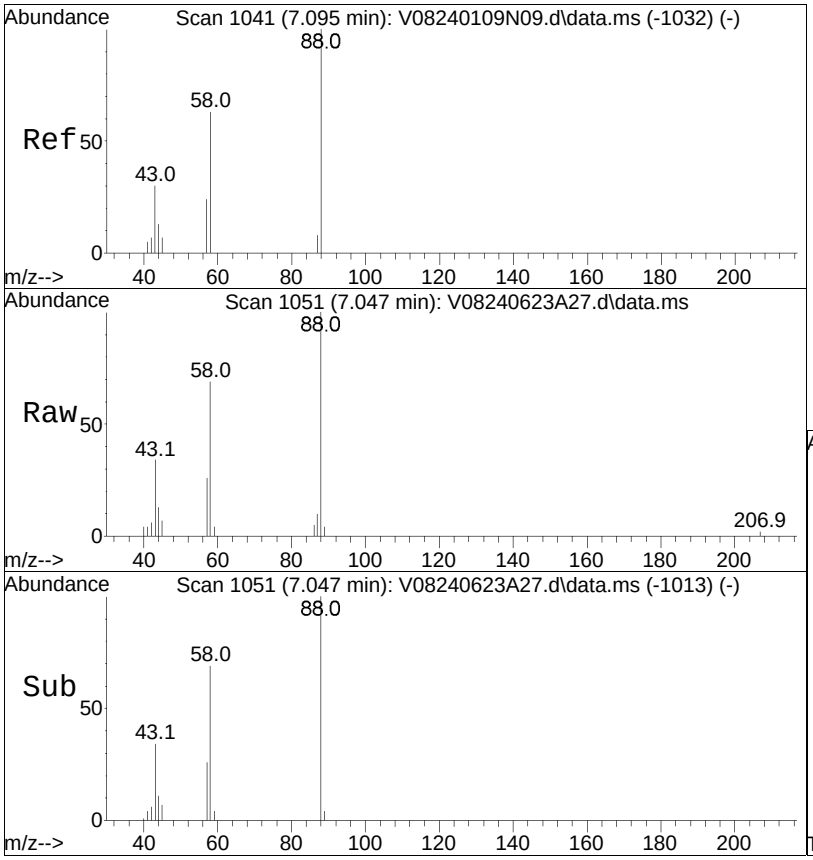


#54
Bromodichloromethane
Concen: 7.92 ug/L
RT: 6.837 min Scan# 1011
Delta R.T. -0.001 min
Lab File: V08240623A27.d
Acq: 23 Jun 2024 9:22 pm

Tgt Ion: 83 Resp: 85343

Ion	Ratio	Lower	Upper
83	100		
85	66.6	52.3	78.5
127	9.5	6.2	9.4#

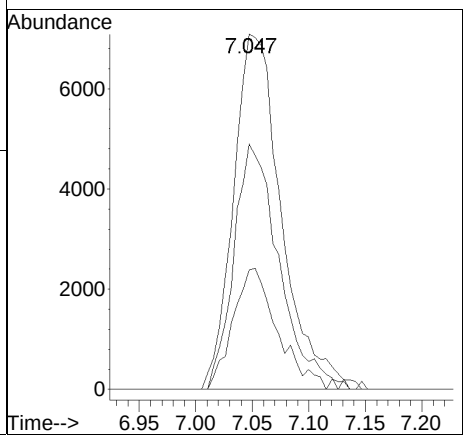


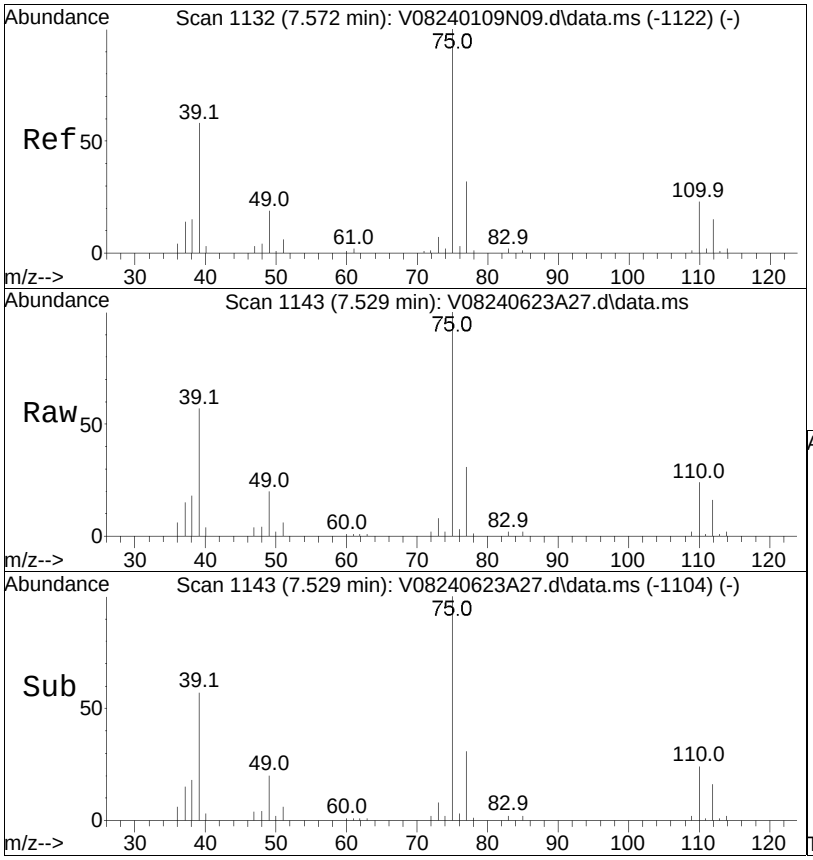


#57
1,4-Dioxane
Concen: 470.94 ug/L
RT: 7.047 min Scan# 1051
Delta R.T. 0.000 min
Lab File: V08240623A27.d
Acq: 23 Jun 2024 9:22 pm

Tgt Ion: 88 Resp: 21002

Ion	Ratio	Lower	Upper
88	100		
58	65.0	76.7	115.1#
43	31.5	36.2	54.2#

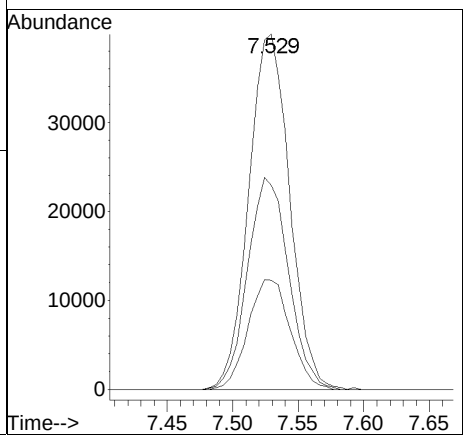


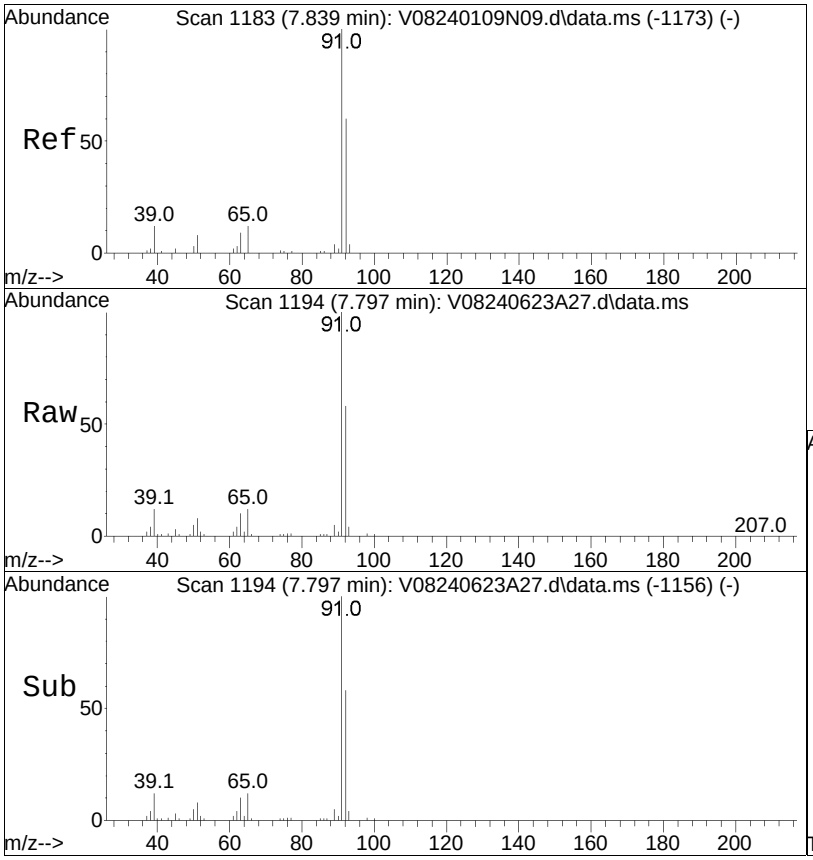


#58
cis-1,3-Dichloropropene
Concen: 6.93 ug/L
RT: 7.529 min Scan# 1143
Delta R.T. 0.005 min
Lab File: V08240623A27.d
Acq: 23 Jun 2024 9:22 pm

Tgt Ion: 75 Resp: 86622

Ion	Ratio	Lower	Upper
75	100		
77	31.8	25.0	37.4
39	59.8	50.1	75.1

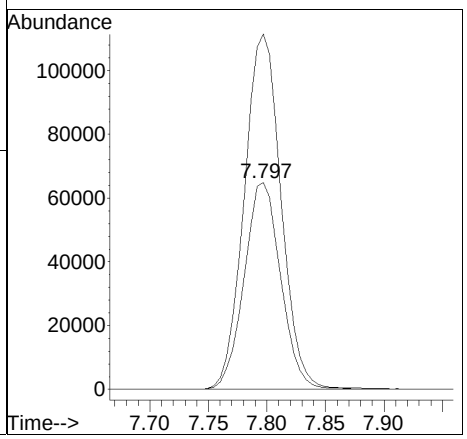


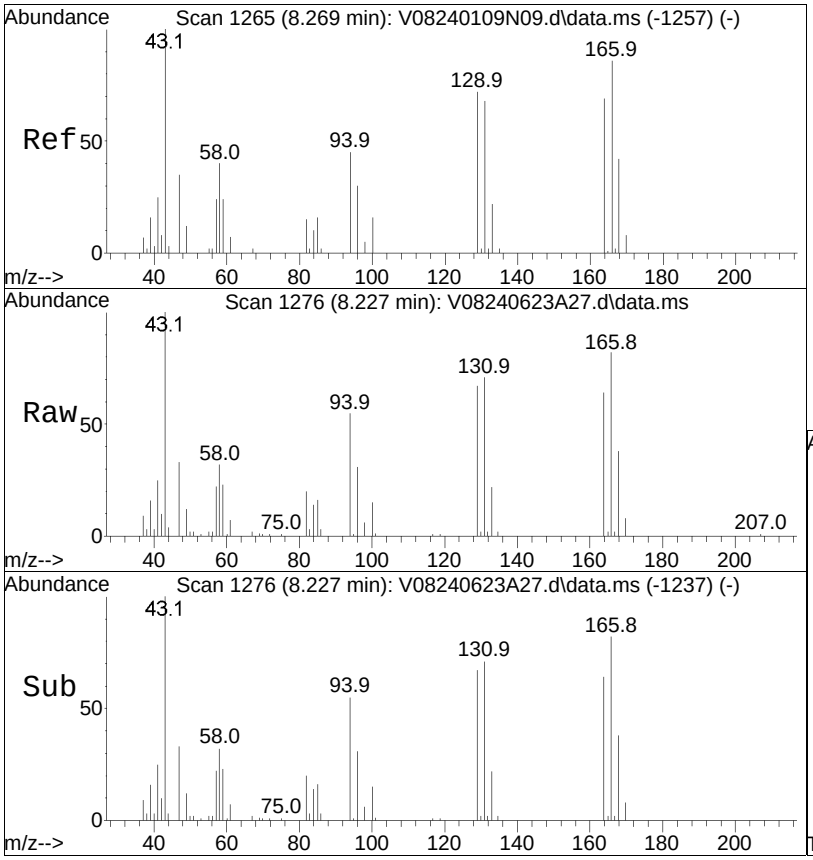


#61
Toluene
Concen: 7.53 ug/L
RT: 7.797 min Scan# 1194
Delta R.T. -0.000 min
Lab File: V08240623A27.d
Acq: 23 Jun 2024 9:22 pm

Tgt Ion: 92 Resp: 140851

Ion	Ratio	Lower	Upper
92	100		
91	173.4	139.8	209.6

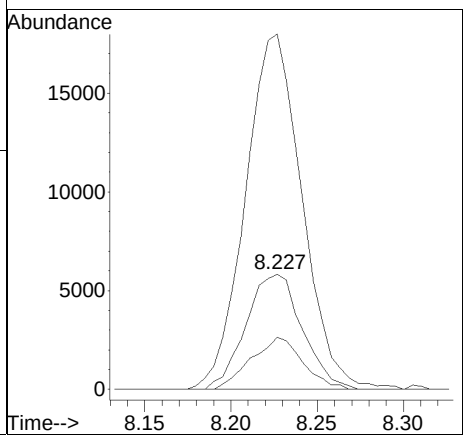


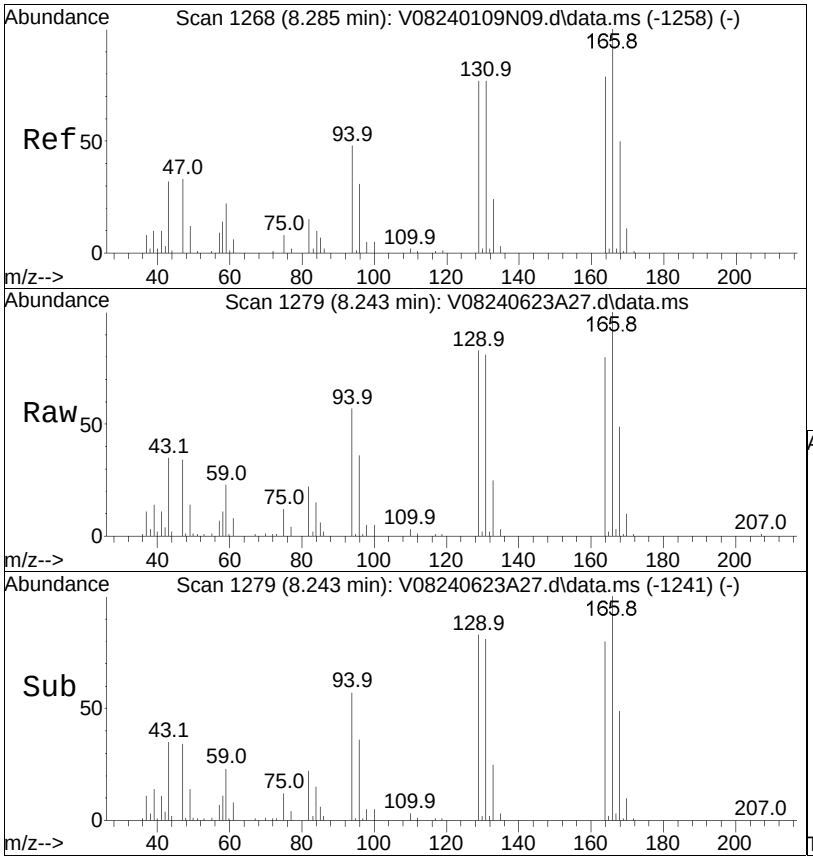


#62
4-Methyl-2-pentanone
Concen: 6.45 ug/L
RT: 8.227 min Scan# 1276
Delta R.T. 0.005 min
Lab File: V08240623A27.d
Acq: 23 Jun 2024 9:22 pm

Tgt Ion: 58 Resp: 13246

Ion	Ratio	Lower	Upper
58	100		
100	41.5	20.2	30.2#
43	310.7	196.6	295.0#

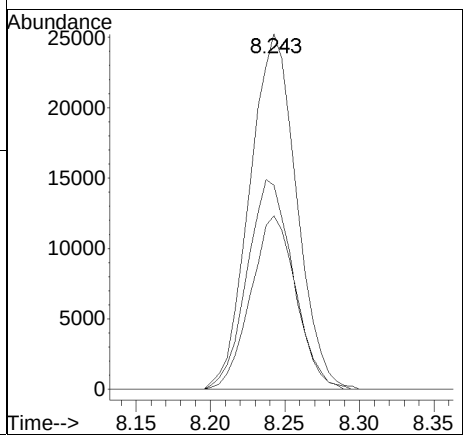


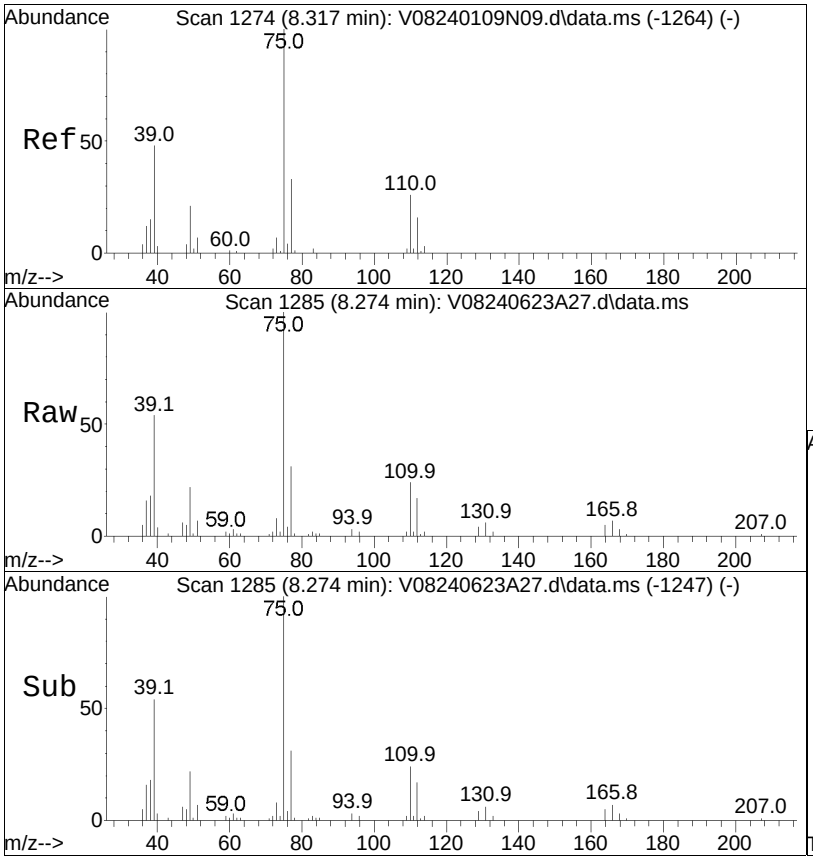


#63
Tetrachloroethene
Concen: 7.15 ug/L
RT: 8.243 min Scan# 1279
Delta R.T. -0.000 min
Lab File: V08240623A27.d
Acq: 23 Jun 2024 9:22 pm

Tgt Ion:166 Resp: 55385

Ion	Ratio	Lower	Upper
166	100		
168	47.5	28.2	68.2
94	57.4	38.4	78.4

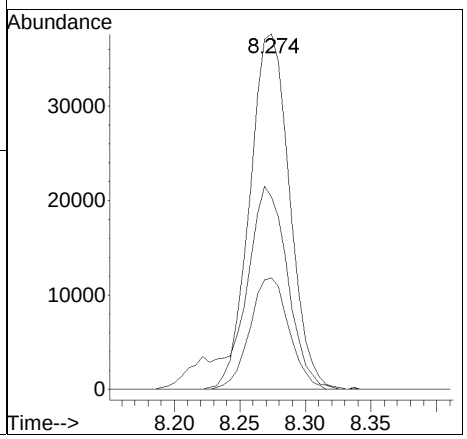


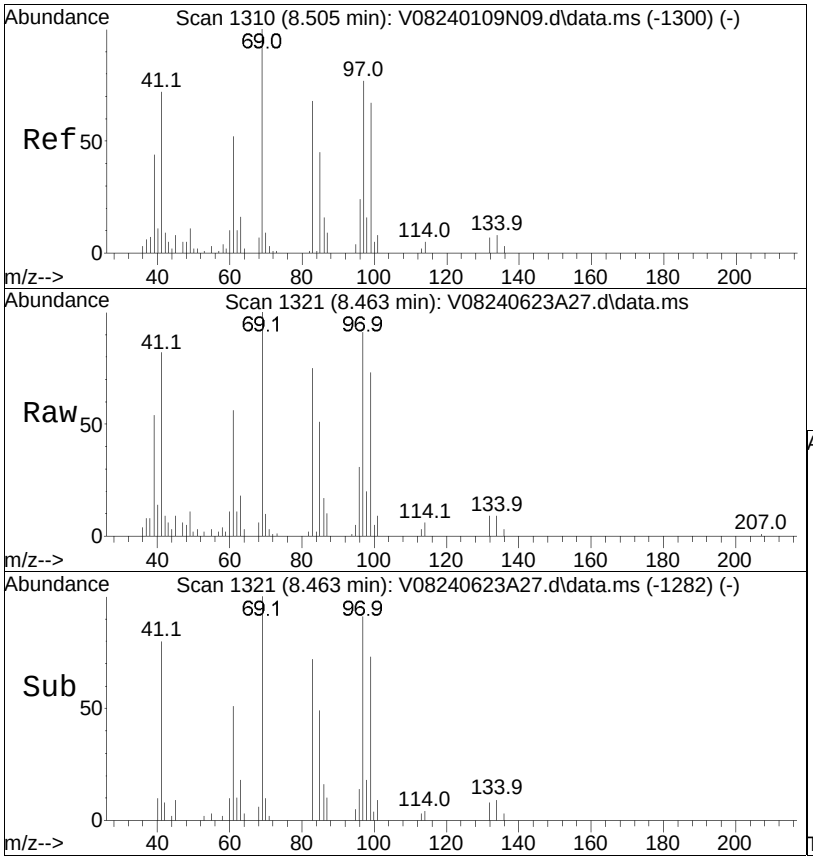


#65
trans-1,3-Dichloropropene
Concen: 7.11 ug/L
RT: 8.274 min Scan# 1285
Delta R.T. -0.000 min
Lab File: V08240623A27.d
Acq: 23 Jun 2024 9:22 pm

Tgt Ion: 75 Resp: 79633

Ion	Ratio	Lower	Upper
75	100		
77	30.9	12.4	52.4
39	64.8	42.8	82.8

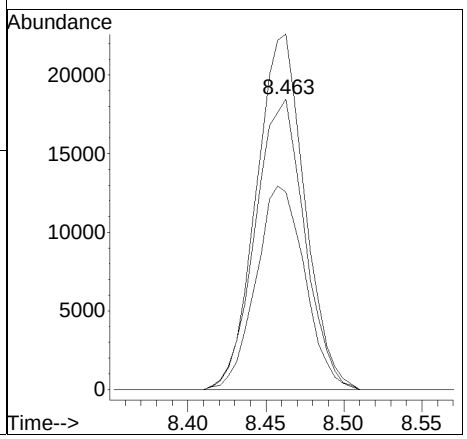


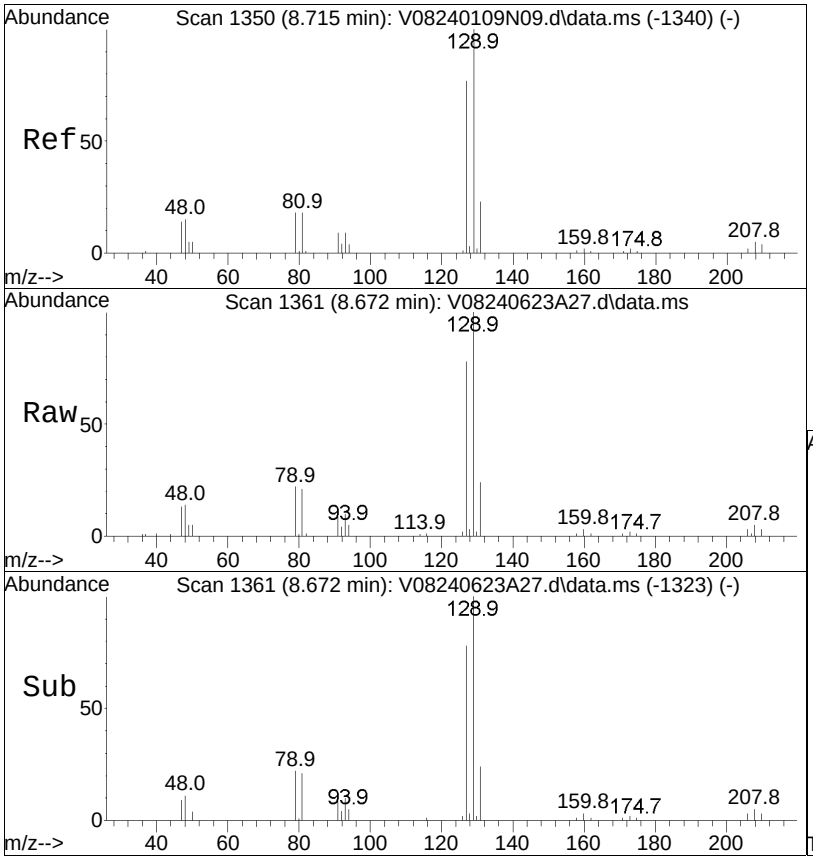


#68
1,1,2-Trichloroethane
Concen: 7.95 ug/L
RT: 8.463 min Scan# 1321
Delta R.T. 0.005 min
Lab File: V08240623A27.d
Acq: 23 Jun 2024 9:22 pm

Tgt Ion: 83 Resp: 40494

Ion	Ratio	Lower	Upper
83	100		
97	120.2	89.8	129.8
85	69.6	44.4	84.4

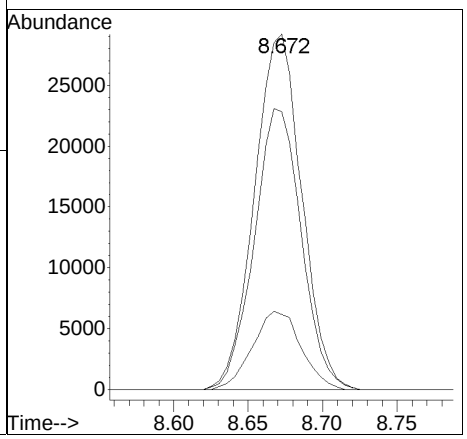


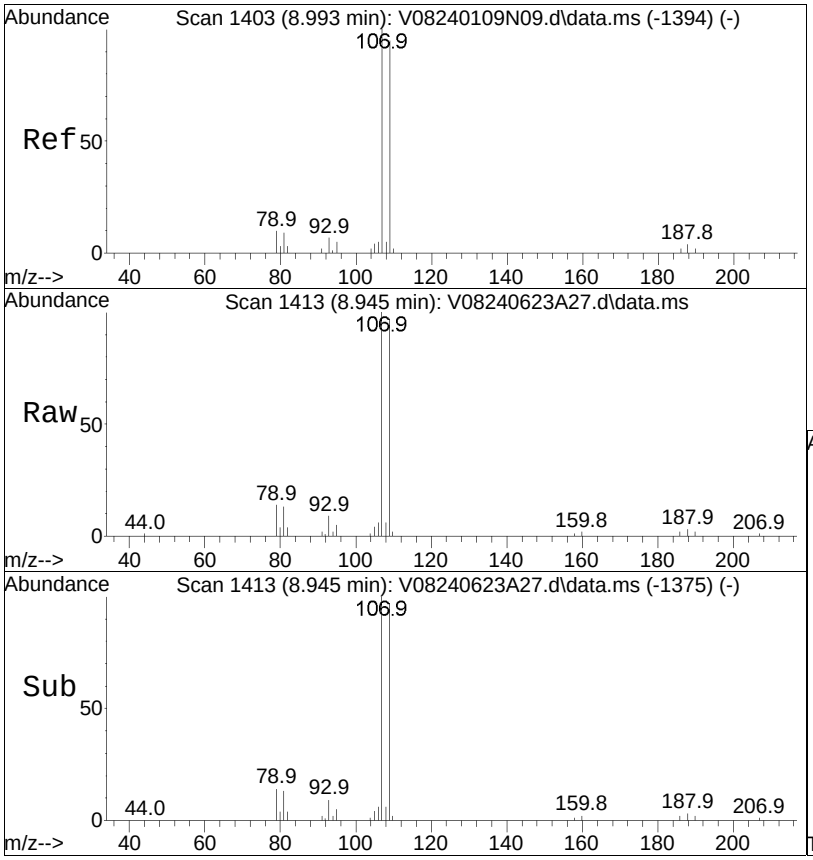


#69
Chlorodibromomethane
Concen: 8.10 ug/L
RT: 8.672 min Scan# 1361
Delta R.T. -0.001 min
Lab File: V08240623A27.d
Acq: 23 Jun 2024 9:22 pm

Tgt Ion:129 Resp: 64523

Ion	Ratio	Lower	Upper
129	100		
81	22.5	2.9	42.9
127	78.6	57.8	97.8

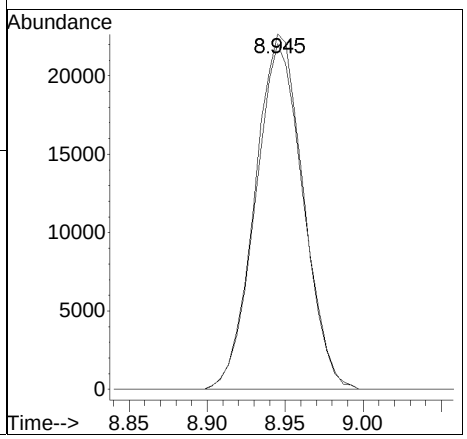


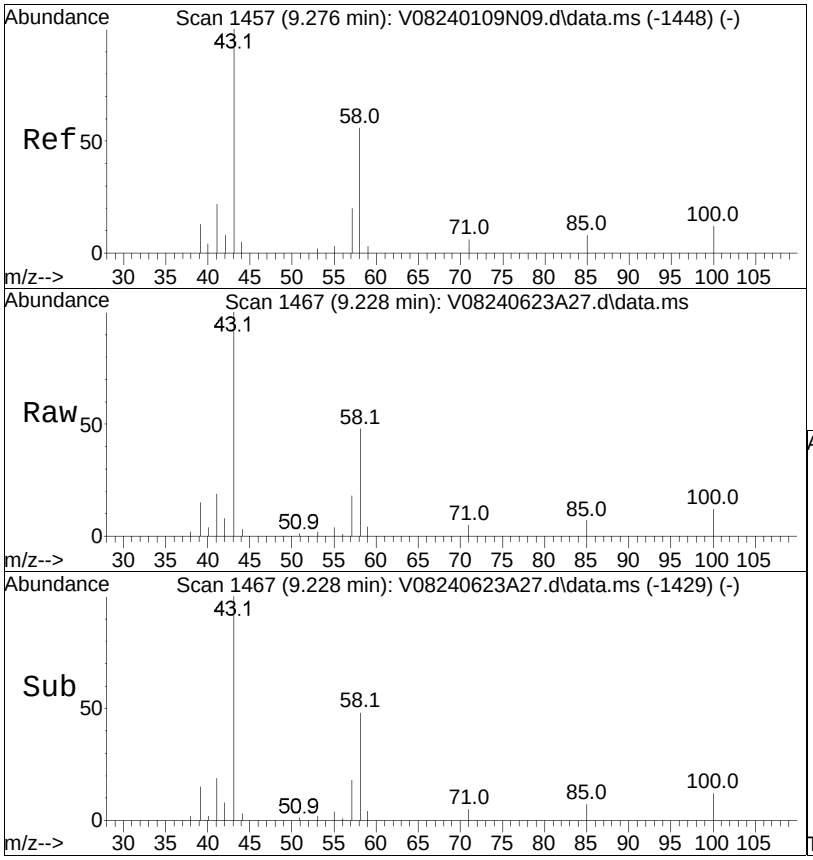


#71
1,2-Dibromoethane
Concen: 8.20 ug/L
RT: 8.945 min Scan# 1413
Delta R.T. 0.000 min
Lab File: V08240623A27.d
Acq: 23 Jun 2024 9:22 pm

Tgt Ion:107 Resp: 48810

Ion	Ratio	Lower	Upper
107	100		
109	96.2	74.3	111.5

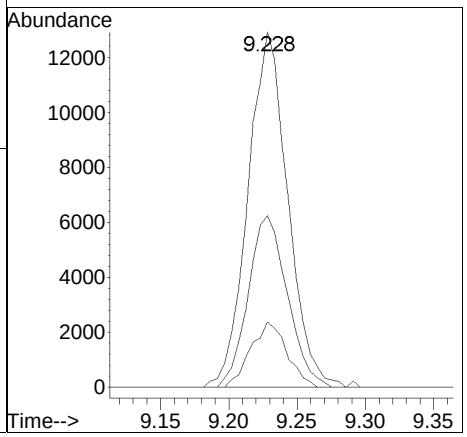


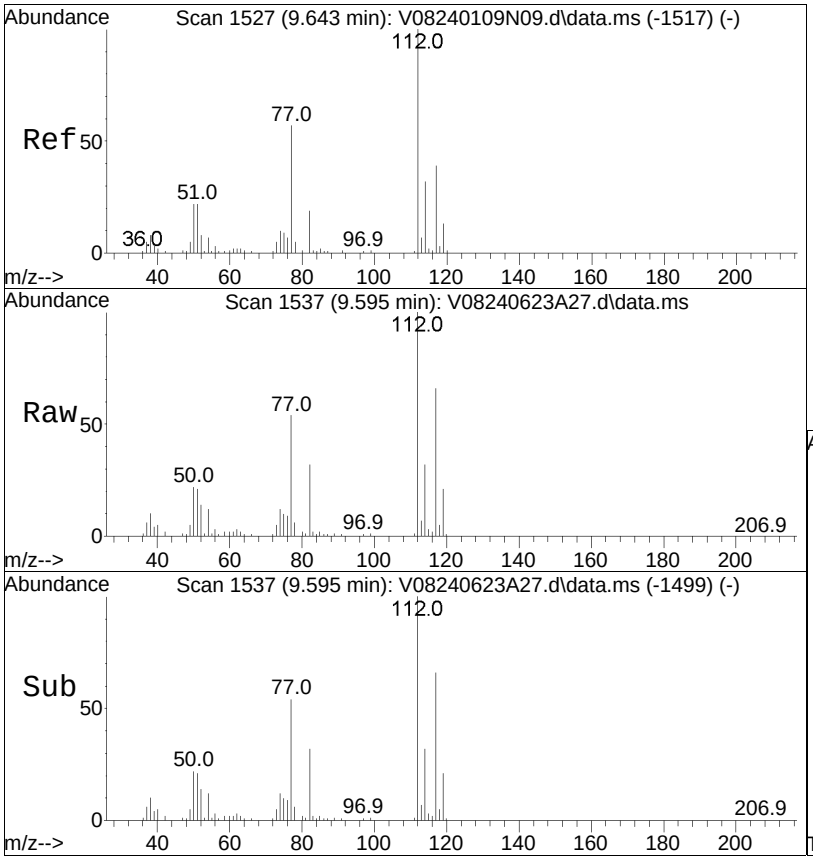


#72
2-Hexanone
Concen: 6.12 ug/L
RT: 9.228 min Scan# 1467
Delta R.T. 0.000 min
Lab File: V08240623A27.d
Acq: 23 Jun 2024 9:22 pm

Tgt Ion: 43 Resp: 26329

Ion	Ratio	Lower	Upper
43	100		
58	47.4	41.2	61.8
57	16.7	17.2	25.8#

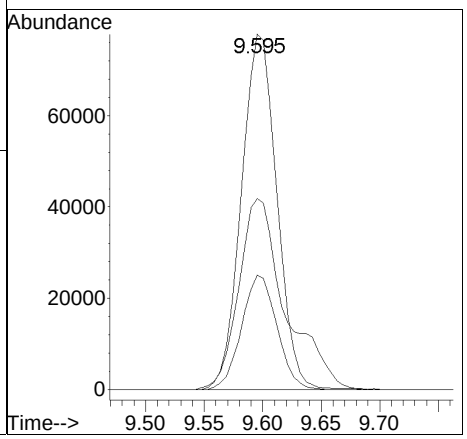


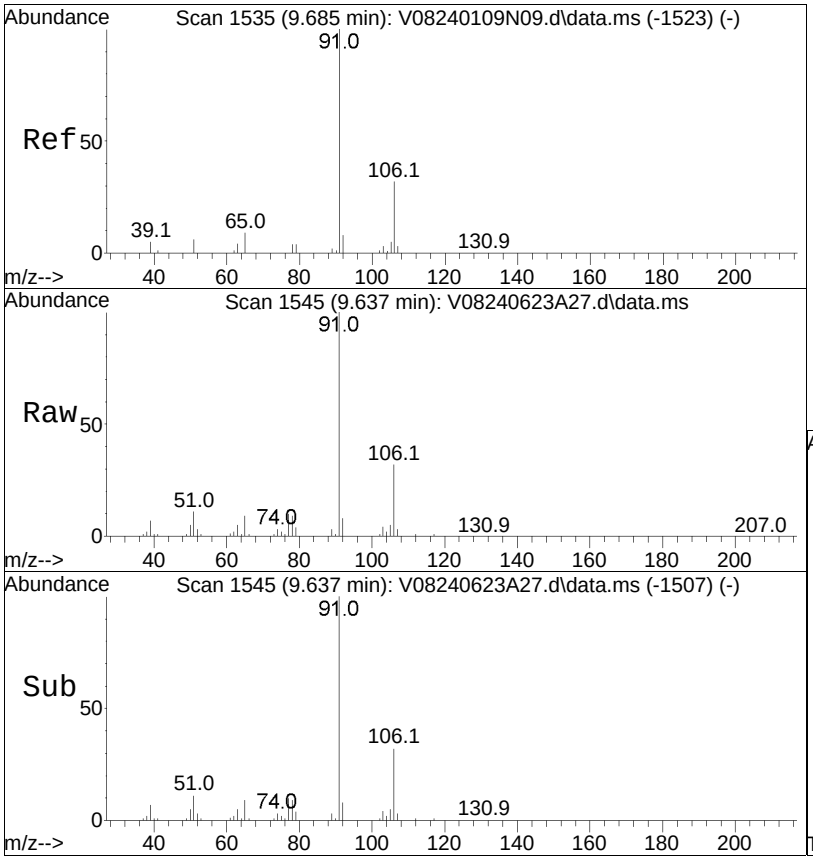


#73
Chlorobenzene
Concen: 7.89 ug/L
RT: 9.595 min Scan# 1537
Delta R.T. 0.000 min
Lab File: V08240623A27.d
Acq: 23 Jun 2024 9:22 pm

Tgt Ion:112 Resp: 164028

Ion	Ratio	Lower	Upper
112	100		
77	70.6	55.4	83.0
114	32.0	25.4	38.2

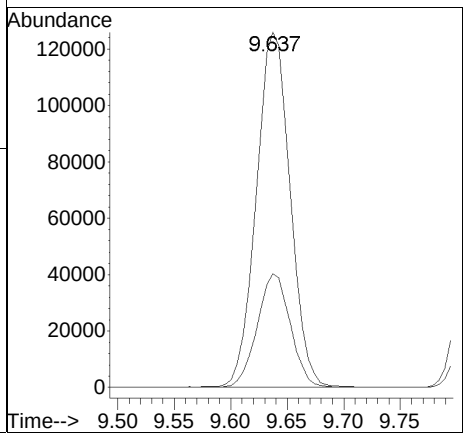


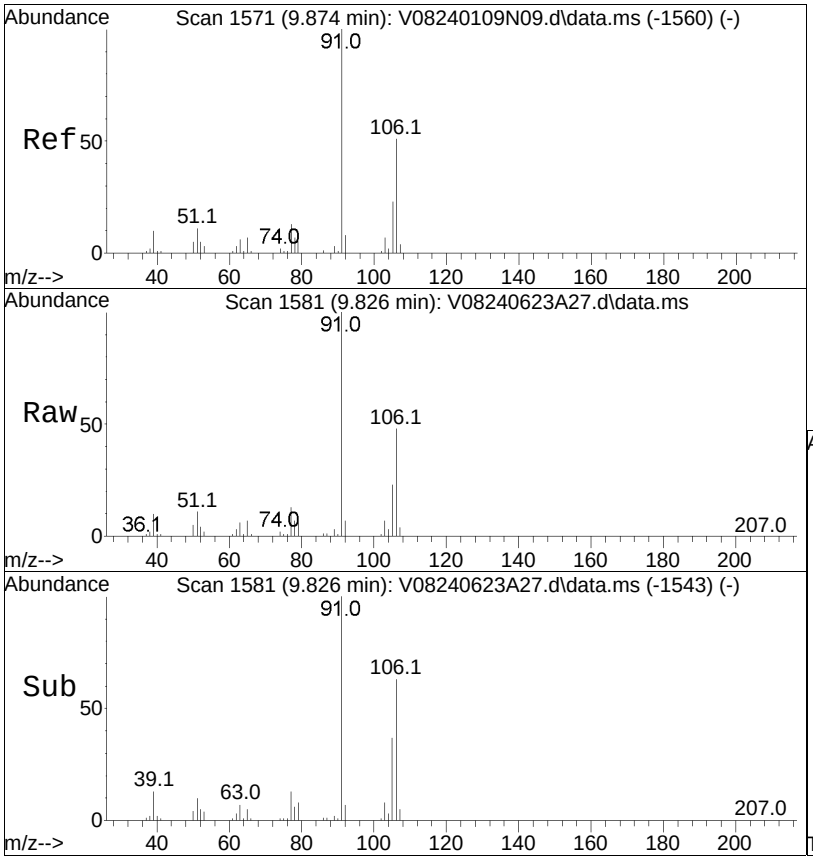


#74
Ethylbenzene
Concen: 7.39 ug/L
RT: 9.637 min Scan# 1545
Delta R.T. 0.000 min
Lab File: V08240623A27.d
Acq: 23 Jun 2024 9:22 pm

Tgt Ion: 91 Resp: 262349

Ion	Ratio	Lower	Upper
91	100		
106	31.3	24.3	36.5

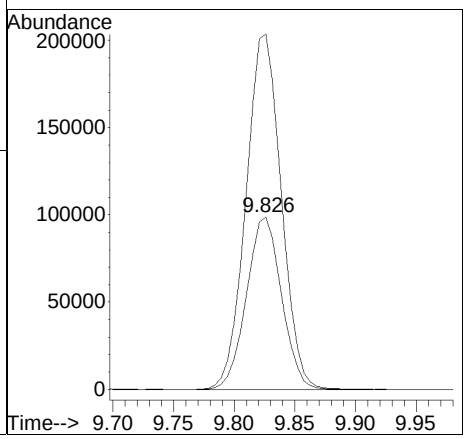


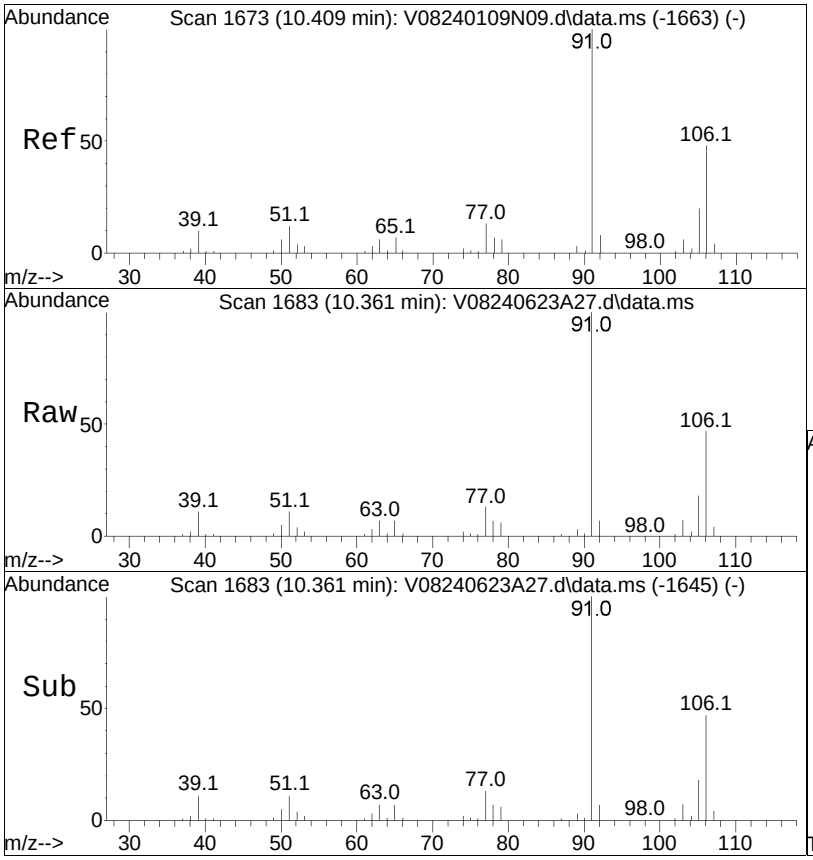


#76
p/m Xylene
Concen: 14.22 ug/L
RT: 9.826 min Scan# 1581
Delta R.T. -0.000 min
Lab File: V08240623A27.d
Acq: 23 Jun 2024 9:22 pm

Tgt Ion:106 Resp: 198173

Ion	Ratio	Lower	Upper
106	100		
91	207.4	166.4	249.6

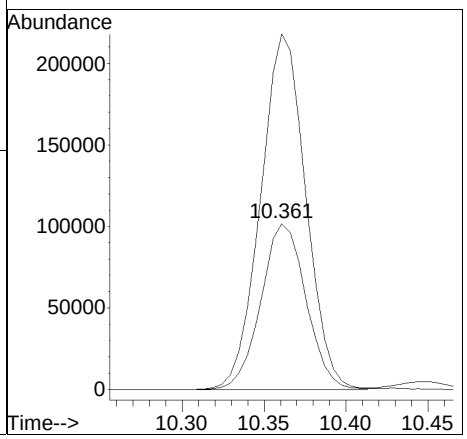


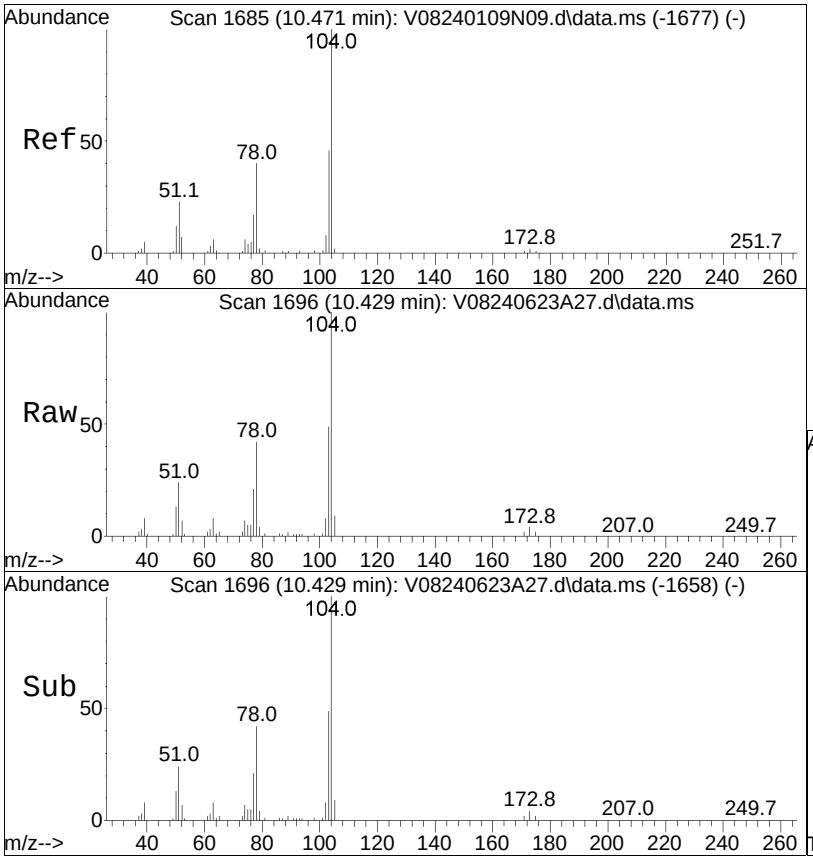


#77
o Xylene
Concen: 14.21 ug/L
RT: 10.361 min Scan# 1683
Delta R.T. -0.000 min
Lab File: V08240623A27.d
Acq: 23 Jun 2024 9:22 pm

Tgt Ion:106 Resp: 193981

Ion	Ratio	Lower	Upper
106	100		
91	215.1	182.6	273.8

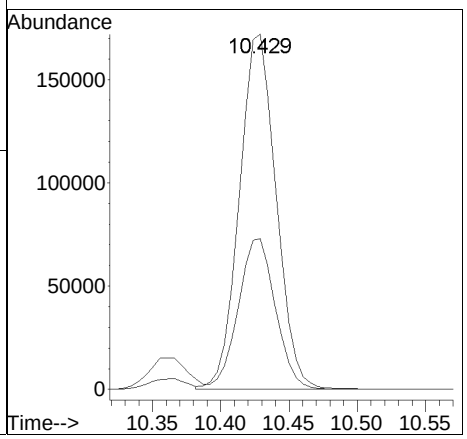


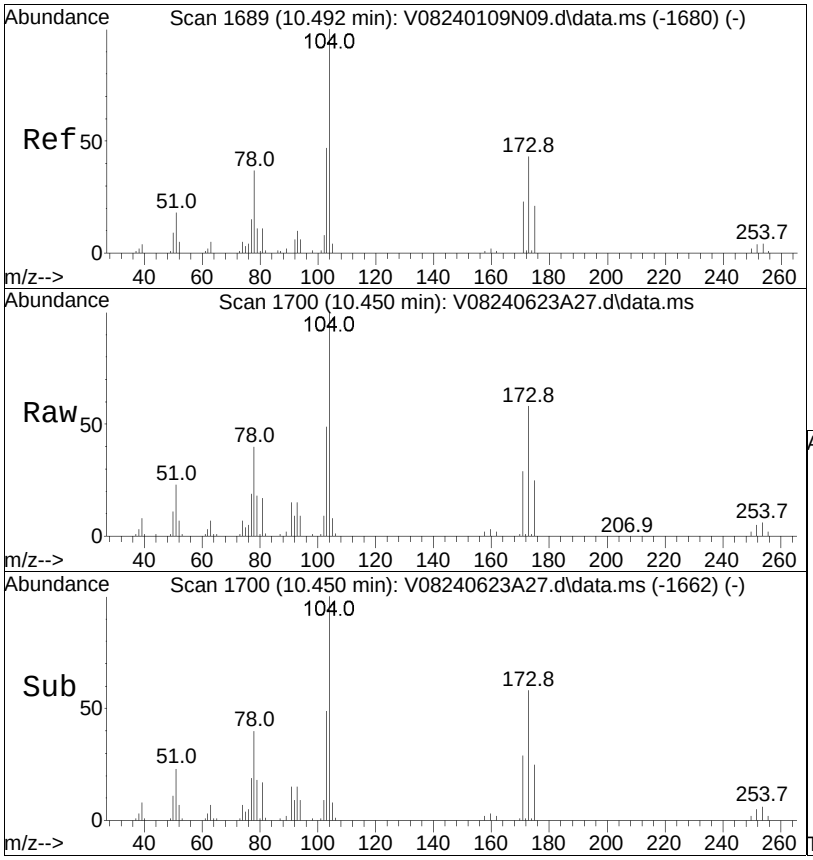


#78
Styrene
Concen: 13.99 ug/L
RT: 10.429 min Scan# 1696
Delta R.T. -0.000 min
Lab File: V08240623A27.d
Acq: 23 Jun 2024 9:22 pm

Tgt Ion:104 Resp: 321118

Ion	Ratio	Lower	Upper
104	100		
78	43.0	39.8	59.6

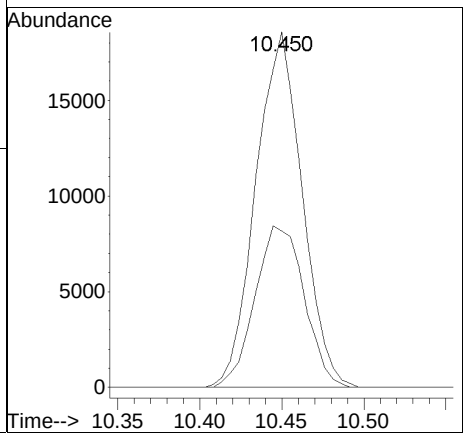


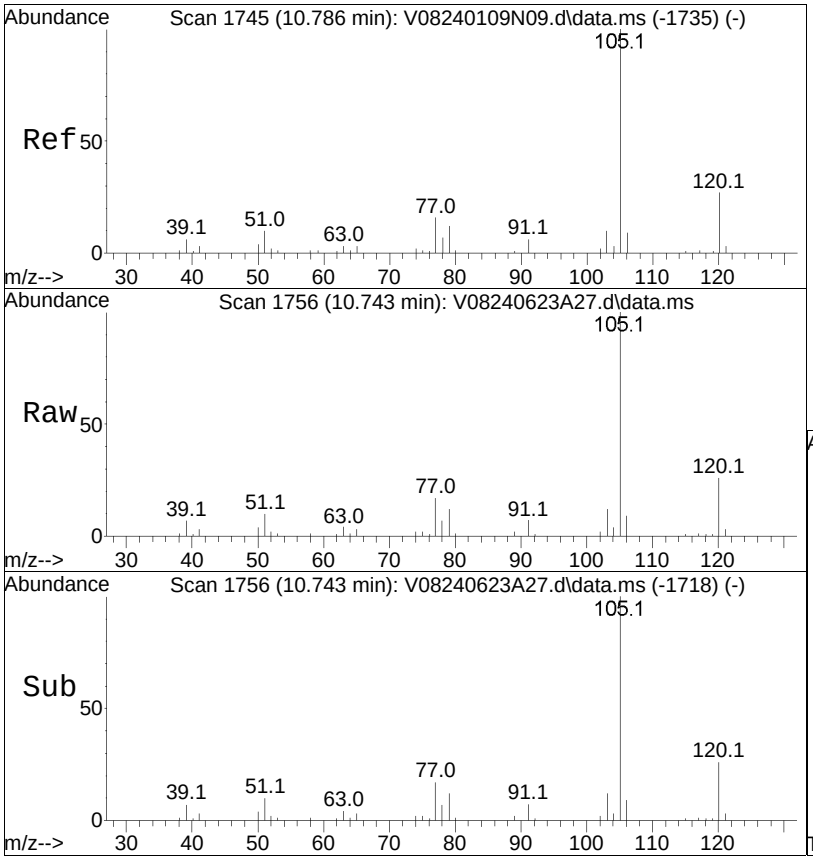


#80
Bromoform
Concen: 8.08 ug/L
RT: 10.450 min Scan# 1700
Delta R.T. -0.000 min
Lab File: V08240623A27.d
Acq: 23 Jun 2024 9:22 pm

Tgt Ion:173 Resp: 36506

Ion	Ratio	Lower	Upper
173	100		
175	48.2	31.5	71.5

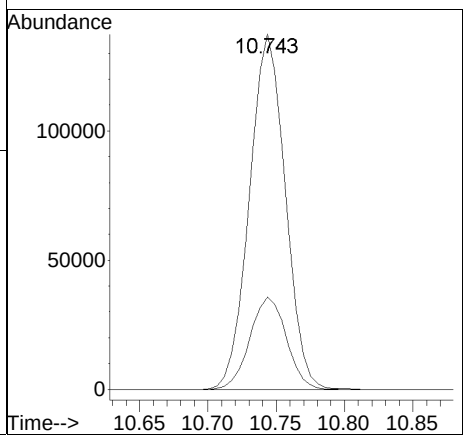


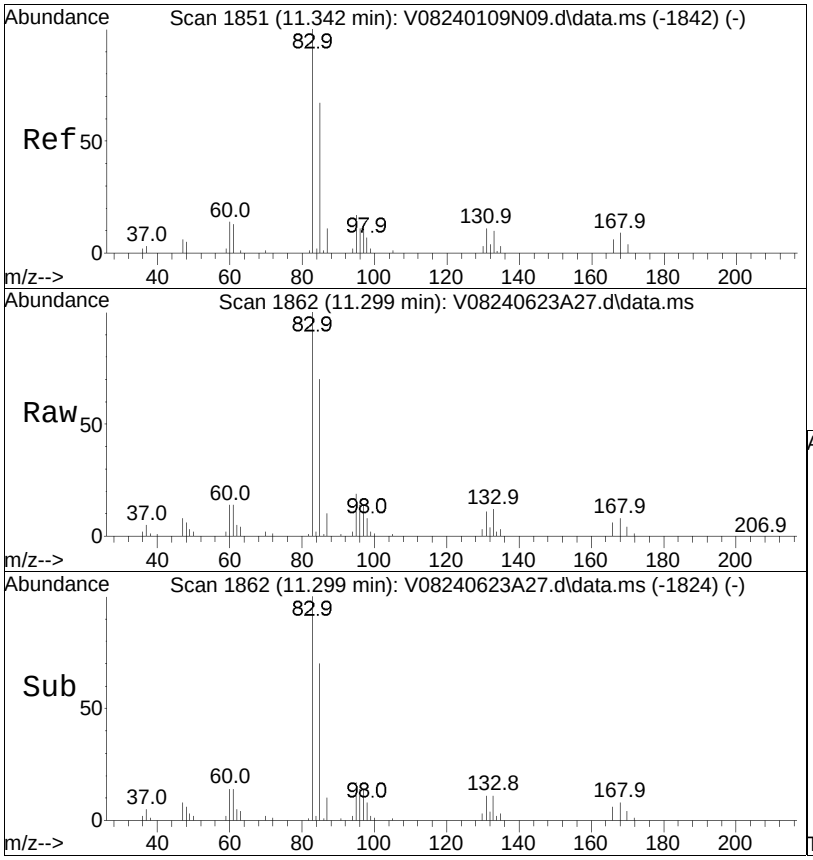


#82
Isopropylbenzene
Concen: 7.46 ug/L
RT: 10.743 min Scan# 1756
Delta R.T. -0.001 min
Lab File: V08240623A27.d
Acq: 23 Jun 2024 9:22 pm

Tgt Ion:105 Resp: 250752

Ion	Ratio	Lower	Upper
105	100		
120	26.4	4.8	44.8

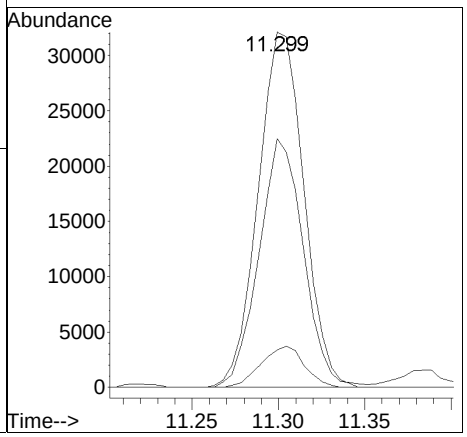


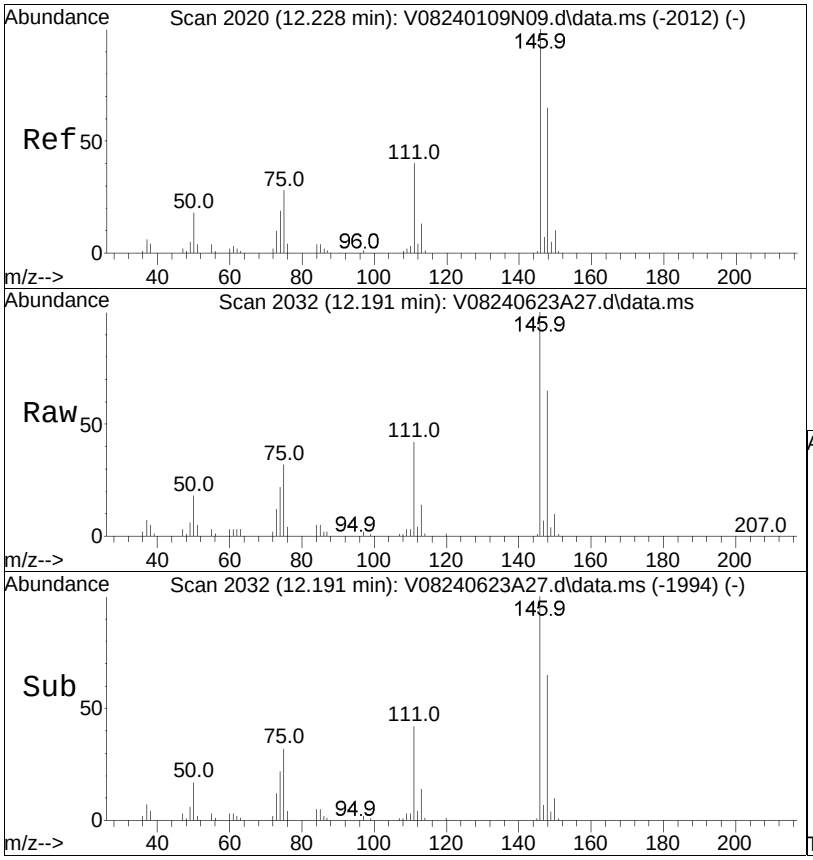


#87
1,1,2,2-Tetrachloroethane
Concen: 8.72 ug/L
RT: 11.299 min Scan# 1862
Delta R.T. 0.000 min
Lab File: V08240623A27.d
Acq: 23 Jun 2024 9:22 pm

Tgt Ion: 83 Resp: 59185

Ion	Ratio	Lower	Upper
83	100		
131	11.0	0.0	30.4
85	68.2	45.4	85.4

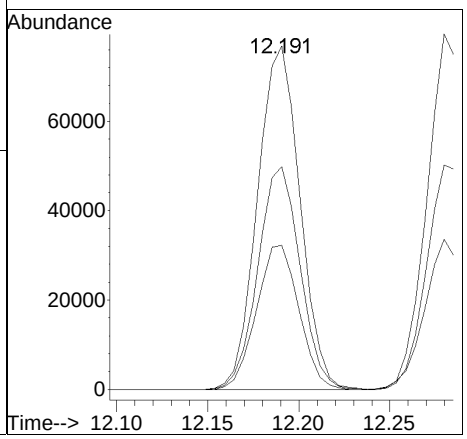


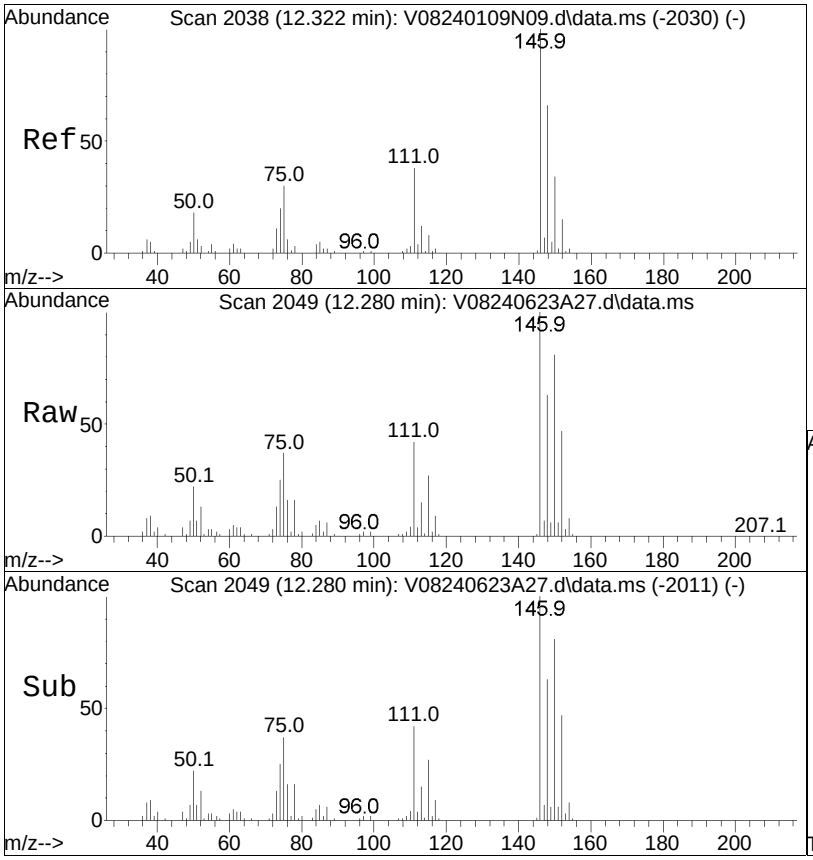


#100
1,3-Dichlorobenzene
Concen: 7.63 ug/L
RT: 12.191 min Scan# 2032
Delta R.T. -0.000 min
Lab File: V08240623A27.d
Acq: 23 Jun 2024 9:22 pm

Tgt Ion:146 Resp: 124483

Ion	Ratio	Lower	Upper
146	100		
111	41.9	27.5	57.1
148	64.5	41.9	86.9

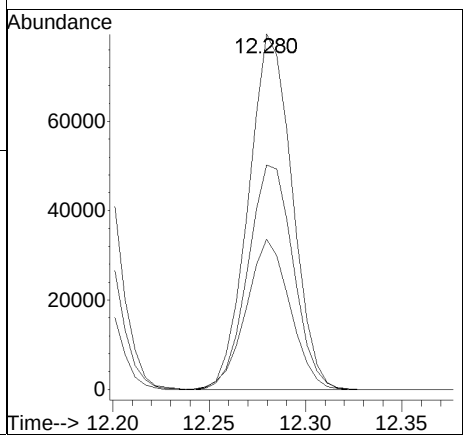


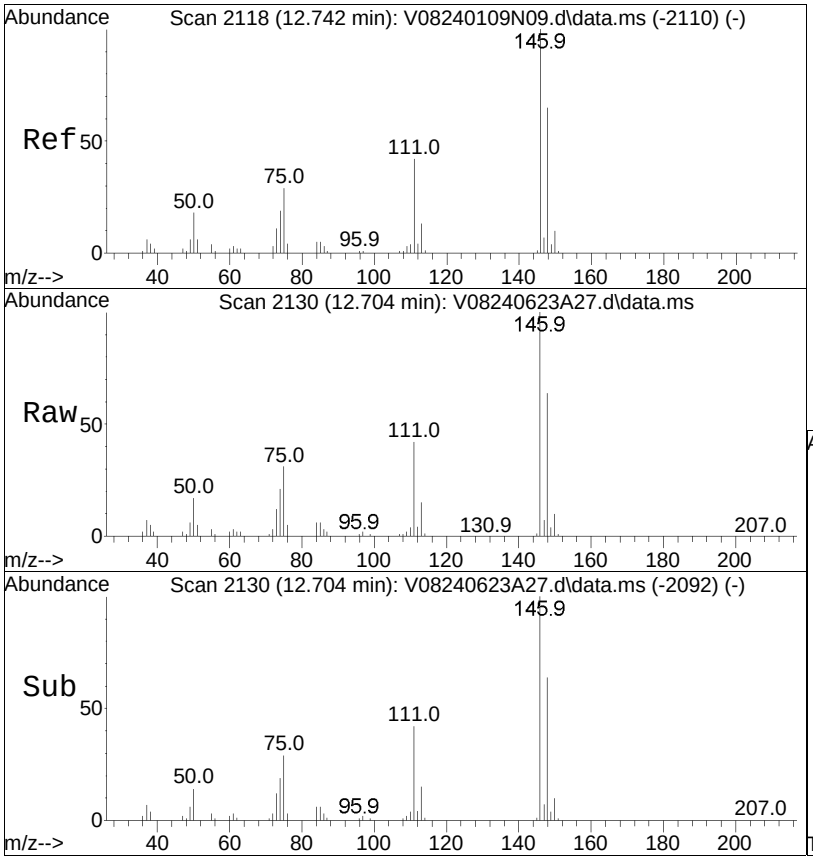


#101
1,4-Dichlorobenzene
Concen: 7.63 ug/L
RT: 12.280 min Scan# 2049
Delta R.T. -0.000 min
Lab File: V08240623A27.d
Acq: 23 Jun 2024 9:22 pm

Tgt Ion:146 Resp: 125405

Ion	Ratio	Lower	Upper
146	100		
111	42.4	32.3	48.5
148	65.3	49.9	74.9

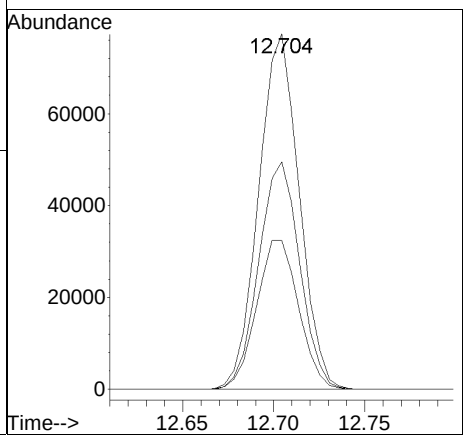


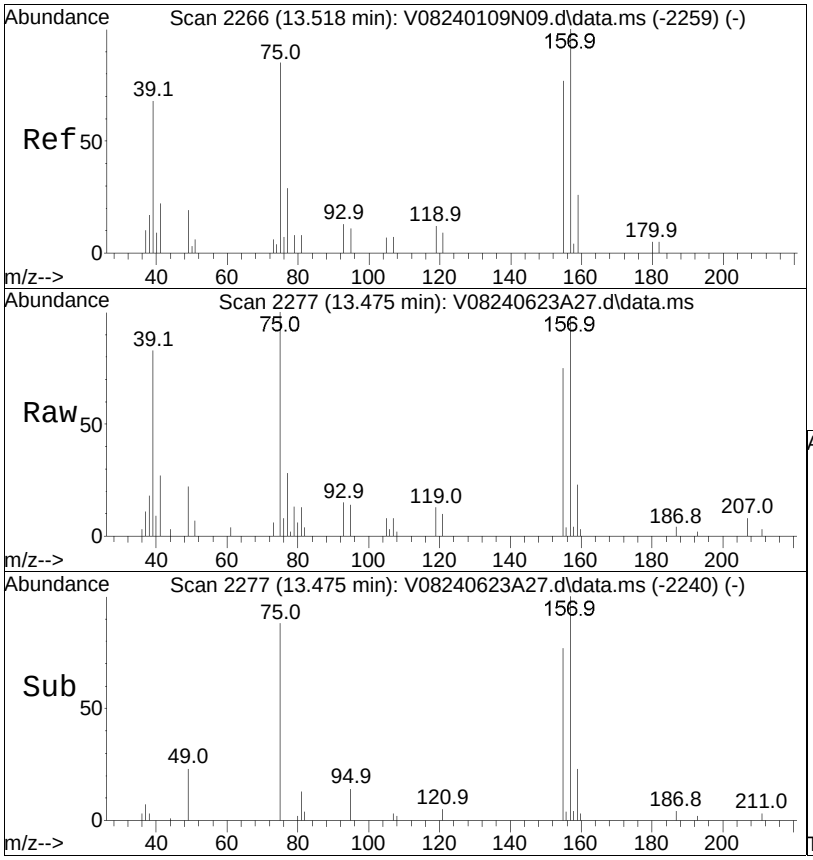


#104
1,2-Dichlorobenzene
Concen: 7.79 ug/L
RT: 12.704 min Scan# 2130
Delta R.T. 0.000 min
Lab File: V08240623A27.d
Acq: 23 Jun 2024 9:22 pm

Tgt Ion:146 Resp: 119845

Ion	Ratio	Lower	Upper
146	100		
111	43.7	28.3	58.7
148	64.7	42.3	87.8

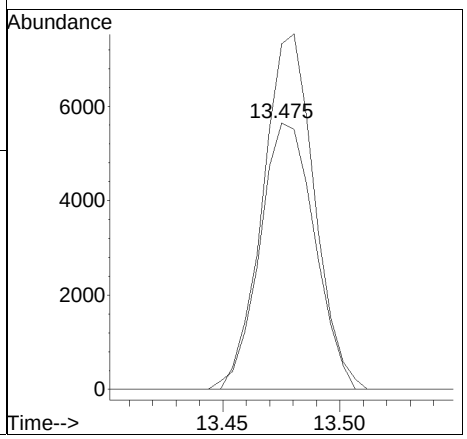


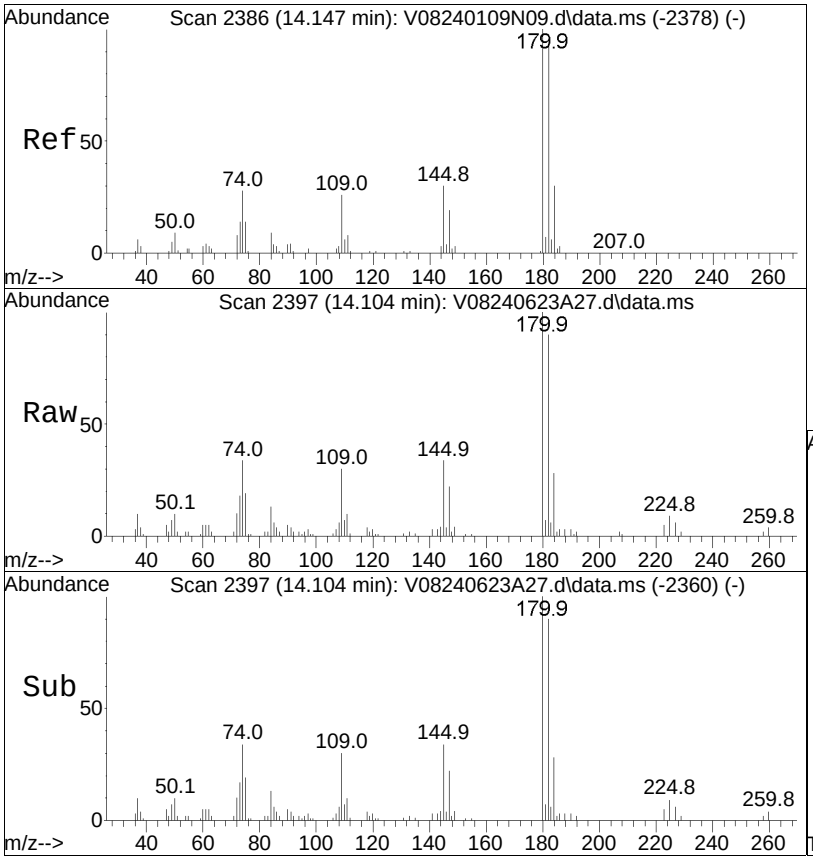


#106
1,2-Dibromo-3-chloropropane
Concen: 8.88 ug/L
RT: 13.475 min Scan# 2277
Delta R.T. -0.005 min
Lab File: V08240623A27.d
Acq: 23 Jun 2024 9:22 pm

Tgt Ion:155 Resp: 9202

Ion	Ratio	Lower	Upper
155	100		
157	125.1	94.8	142.2

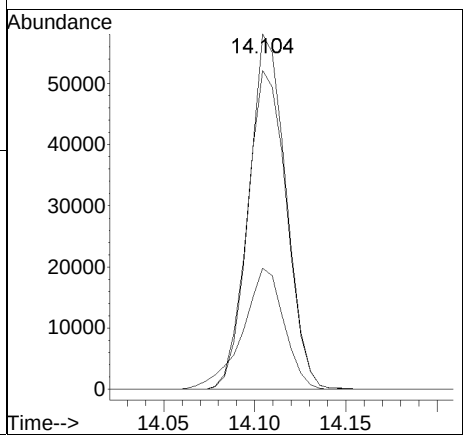


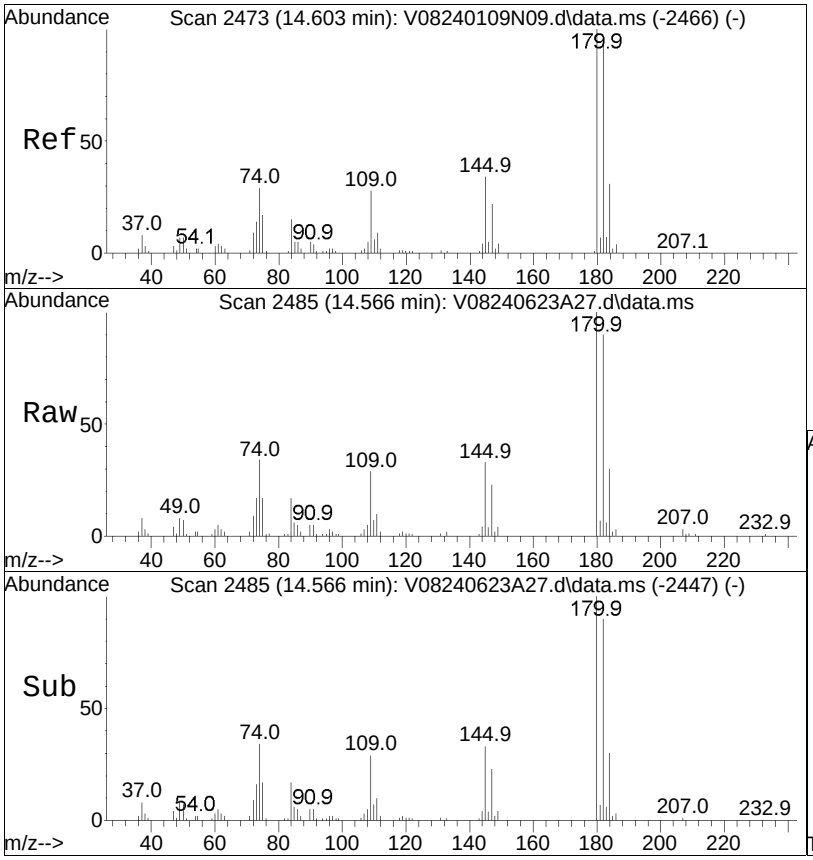


#109
1,2,4-Trichlorobenzene
Concen: 7.49 ug/L
RT: 14.104 min Scan# 2397
Delta R.T. -0.006 min
Lab File: V08240623A27.d
Acq: 23 Jun 2024 9:22 pm

Tgt Ion:180 Resp: 82961

Ion	Ratio	Lower	Upper
180	100		
182	93.0	77.3	115.9
145	37.7	28.1	42.1

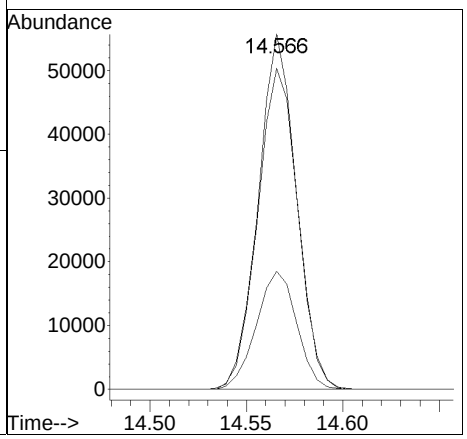




#111
1,2,3-Trichlorobenzene
Concen: 7.69 ug/L
RT: 14.566 min Scan# 2485
Delta R.T. -0.000 min
Lab File: V08240623A27.d
Acq: 23 Jun 2024 9:22 pm

Tgt Ion:180 Resp: 76716

Ion	Ratio	Lower	Upper
180	100		
182	94.8	76.4	114.6
145	35.1	26.4	39.6



Manual Integration Report

Data Path	: K:\VOA108\2024\240623A\	QMethod	: V108_240514N_8260.m
Data File	: V08240623A27.d	Operator	: VOA108:PID
Date Inj'd	: 6/23/2024 9:22 pm	Instrument	: VOA 108
Sample	: WG1938519-6,31,10,10,,A1	Quant Date	: 6/24/2024 11:05 am

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

Quantitation Report (QT Reviewed)

Data Path : K:\VOA108\2024\240623A\
Data File : V08240623A28.d
Acq On : 23 Jun 2024 9:45 pm
Operator : VOA108:PID
Sample : WG1938519-7,31,10,10,,A2
Misc : WG1938519,ICAL21127
ALS Vial : 28 Sample Multiplier: 1

Quant Time: Jun 24 11:05:52 2024
Quant Method : K:\VOA108\2024\240623A\V108_240514N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed May 15 09:35:21 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA108\2024\240623A\V08240623A01.d
Sub List : 8260-NY_R2 - NYSOM01.2 + NYSTARS

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	6.051	96	324448	10.000	ug/L	0.00
Standard Area 1 = 406145			Recovery = 79.88%			
59) Chlorobenzene-d5	9.574	117	244584	10.000	ug/L	0.00
Standard Area 1 = 302664			Recovery = 80.81%			
79) 1,4-Dichlorobenzene-d4	12.264	152	116334	10.000	ug/L	0.00
Standard Area 1 = 142503			Recovery = 81.64%			
System Monitoring Compounds						
36) Dibromofluoromethane	5.244	113	97196	10.925	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 109.25%			
43) 1,2-Dichloroethane-d4	5.768	65	106220	10.668	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 106.68%			
60) Toluene-d8	7.739	98	323601	10.080	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 100.80%			
83) 4-Bromofluorobenzene	11.058	95	114777	10.362	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 103.62%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.678	85	71562	9.556	ug/L	98
3) Chloromethane	1.867	50	82785	10.754	ug/L	97
4) Vinyl chloride	1.946	62	56236	6.854	ug/L	93
5) Bromomethane	2.255	94	7451	1.801	ug/L	100
6) Chloroethane	2.376	64	25414	5.527	ug/L	94
7) Trichlorofluoromethane	2.517	101	78838	7.345	ug/L	99
10) 1,1-Dichloroethene	3.005	96	52556	9.823	ug/L #	63
11) Carbon disulfide	3.031	76	175135	9.609	ug/L	97
12) Freon-113	3.041	101	50584	9.185	ug/L	95
15) Methylene chloride	3.555	84	65802	10.306	ug/L	73
17) Acetone	3.597	43	15495	12.156	ug/L	90
18) trans-1,2-Dichloroethene	3.707	96	59533	9.819	ug/L	74
19) Methyl acetate	3.718	43	27672	8.063	ug/L #	86
20) Methyl tert-butyl ether	3.812	73	148262	9.078	ug/L	95
23) 1,1-Dichloroethane	4.289	63	113692	9.558	ug/L	98
28) cis-1,2-Dichloroethene	4.803	96	66301	9.759	ug/L #	67
30) Bromochloromethane	4.997	128	31514	9.597	ug/L #	59
31) Cyclohexane	5.008	56	73634	6.909	ug/L #	46
32) Chloroform	5.065	83	114643	9.984	ug/L	95
34) Carbon tetrachloride	5.207	117	100310	10.732	ug/L	99

Data Path : K:\VOA108\2024\240623A\
Data File : V08240623A28.d
Acq On : 23 Jun 2024 9:45 pm
Operator : VOA108:PID
Sample : WG1938519-7,31,10,10,,A2
Misc : WG1938519,ICAL21127
ALS Vial : 28 Sample Multiplier: 1

Quant Time: Jun 24 11:05:52 2024
Quant Method : K:\VOA108\2024\240623A\V108_240514N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed May 15 09:35:21 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA108\2024\240623A\V08240623A01.d
Sub List : 8260-NY_R2 - NYSOM01.2 + NYSTARS

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
37) 1,1,1-Trichloroethane	5.270	97	105832	10.543	ug/L	#	90
39) 2-Butanone	5.354	43	20784	9.393	ug/L		99
41) Benzene	5.637	78	227482	9.042	ug/L		91
44) 1,2-Dichloroethane	5.836	62	80275	9.509	ug/L		94
47) Methyl cyclohexane	6.219	83	74190	7.433	ug/L	#	67
48) Trichloroethene	6.229	95	63751	9.599	ug/L		96
51) 1,2-Dichloropropane	6.769	63	60173	9.010	ug/L		97
54) Bromodichloromethane	6.837	83	88618	9.653	ug/L	#	98
57) 1,4-Dioxane	7.047	88	21994	579.022	ug/L	#	74
58) cis-1,3-Dichloropropene	7.529	75	88767	8.337	ug/L		98
61) Toluene	7.797	92	144701	9.053	ug/L		97
62) 4-Methyl-2-pentanone	8.222	58	14216	8.102	ug/L	#	71
63) Tetrachloroethene	8.243	166	56244	8.501	ug/L		99
65) trans-1,3-Dichloropropene	8.269	75	81893	8.563	ug/L		96
68) 1,1,2-Trichloroethane	8.458	83	41566	9.555	ug/L		91
69) Chlorodibromomethane	8.672	129	66759	9.805	ug/L		99
71) 1,2-Dibromoethane	8.945	107	50243	9.879	ug/L		96
72) 2-Hexanone	9.223	43	27317	7.439	ug/L	#	91
73) Chlorobenzene	9.595	112	166642	9.385	ug/L		98
74) Ethylbenzene	9.637	91	268649	8.860	ug/L		100
76) p/m Xylene	9.826	106	203008	17.059	ug/L		99
77) o Xylene	10.361	106	199138	17.075	ug/L		93
78) Styrene	10.429	104	330158	16.840	ug/L		89
80) Bromoform	10.450	173	37676	9.724	ug/L		93
82) Isopropylbenzene	10.743	105	257515	8.929	ug/L		97
87) 1,1,2,2-Tetrachloroethane	11.305	83	60672	10.423	ug/L		98
100) 1,3-Dichlorobenzene	12.191	146	127413	9.100	ug/L		99
101) 1,4-Dichlorobenzene	12.280	146	129918	9.210	ug/L		98
104) 1,2-Dichlorobenzene	12.704	146	123896	9.388	ug/L		100
106) 1,2-Dibromo-3-chloropr...	13.480	155	9494	10.672	ug/L		92
109) 1,2,4-Trichlorobenzene	14.104	180	85587	9.000	ug/L		98
111) 1,2,3-Trichlorobenzene	14.566	180	80987	9.461	ug/L		98

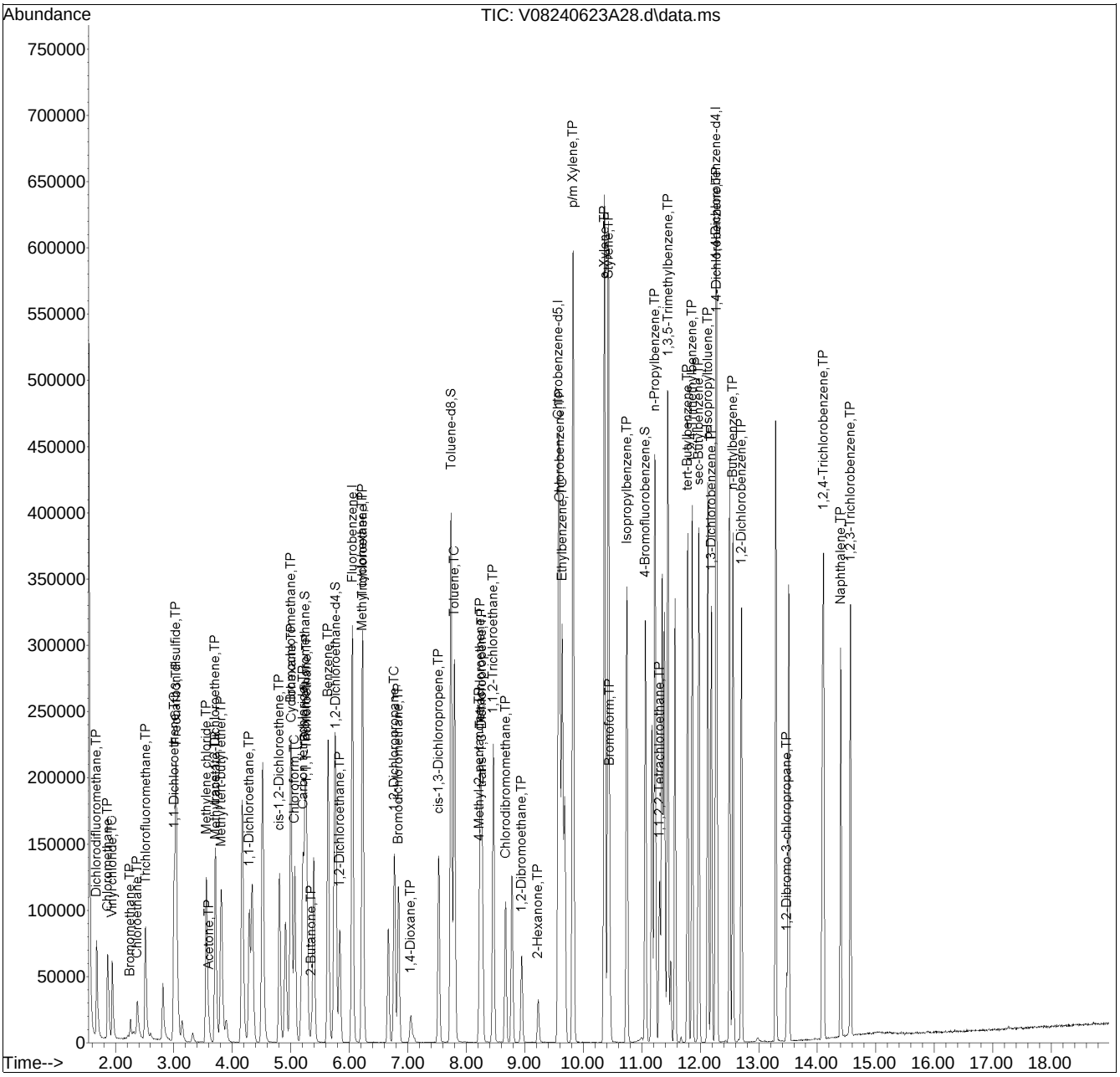
(#) = qualifier out of range (m) = manual integration (+) = signals summed

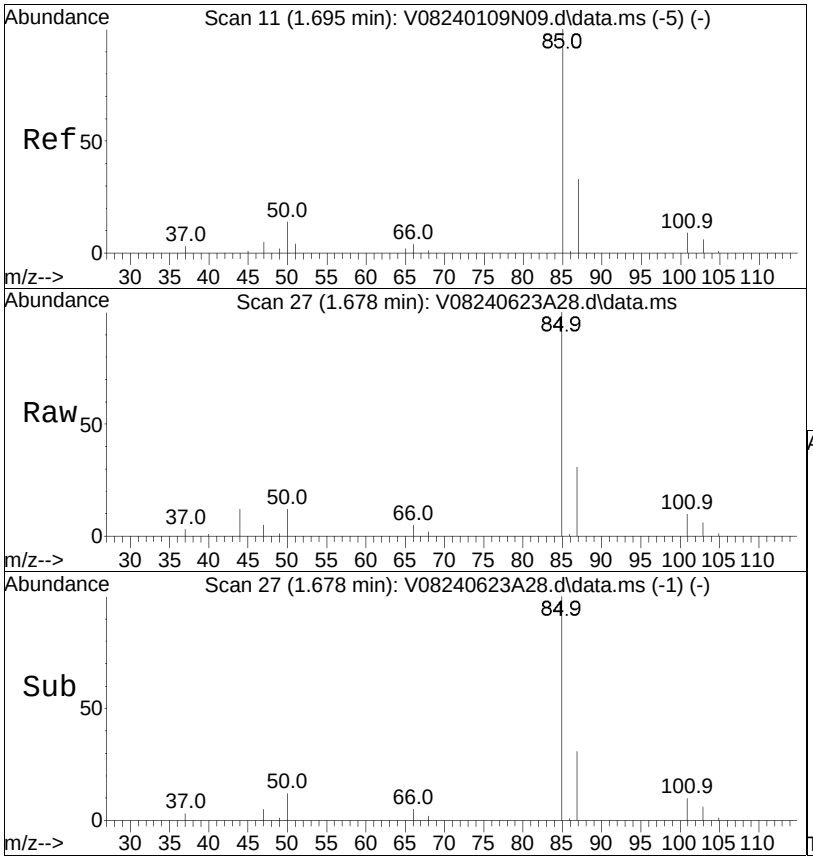
Quantitation Report (QT Reviewed)

Data Path : K:\VOA108\2024\240623A\
Data File : V08240623A28.d
Acq On : 23 Jun 2024 9:45 pm
Operator : VOA108:PID
Sample : WG1938519-7,31,10,10,,A2
Misc : WG1938519,ICAL21127
ALS Vial : 28 Sample Multiplier: 1

Quant Time: Jun 24 11:05:52 2024
Quant Method : K:\VOA108\2024\240623A\V108_240514N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed May 15 09:35:21 2024
Response via : Initial Calibration

Sub List : 8260-NY_R2 - NYSOM01.2 + NYSTARS0623A01.d•

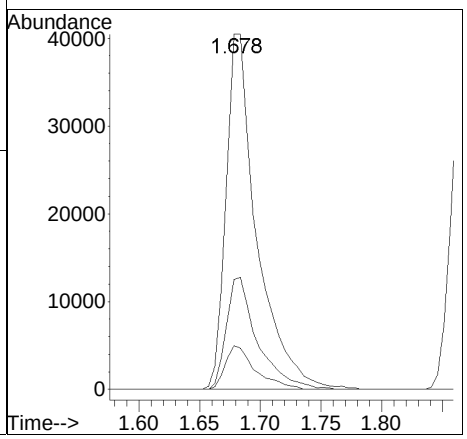


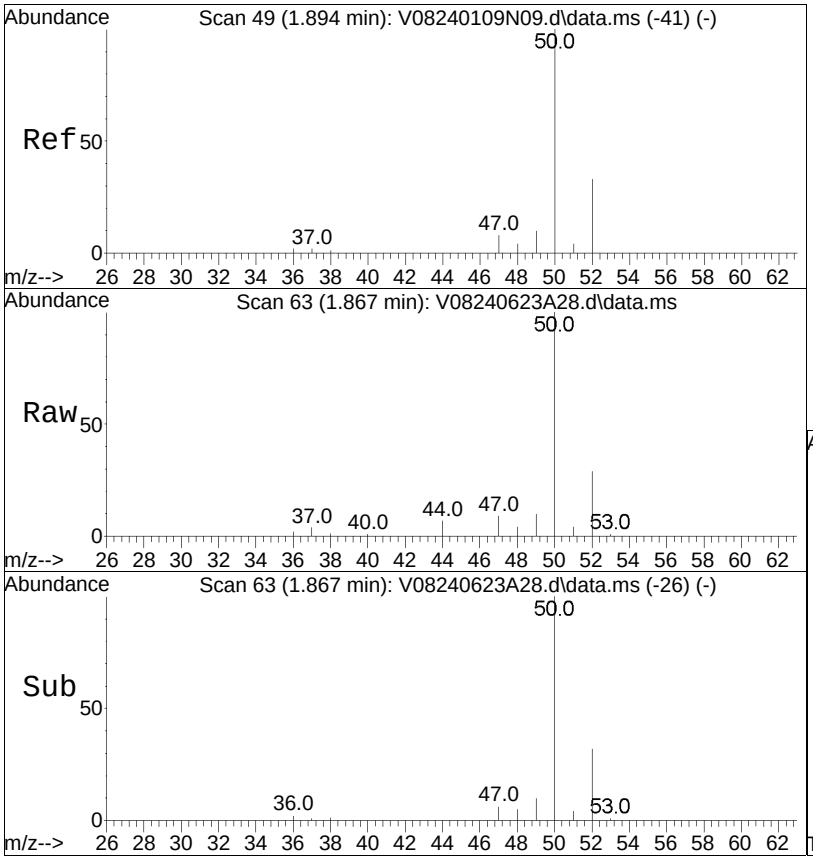


#2
Dichlorodifluoromethane
Concen: 9.56 ug/L
RT: 1.678 min Scan# 27
Delta R.T. 0.000 min
Lab File: V08240623A28.d
Acq: 23 Jun 2024 9:45 pm

Tgt Ion: 85 Resp: 71562

Ion	Ratio	Lower	Upper
85	100		
87	31.9	21.0	43.6
50	12.1	8.9	18.5

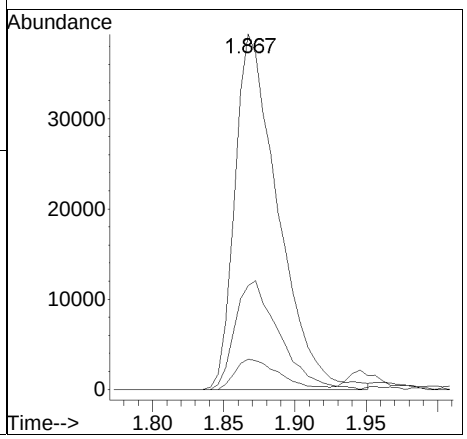


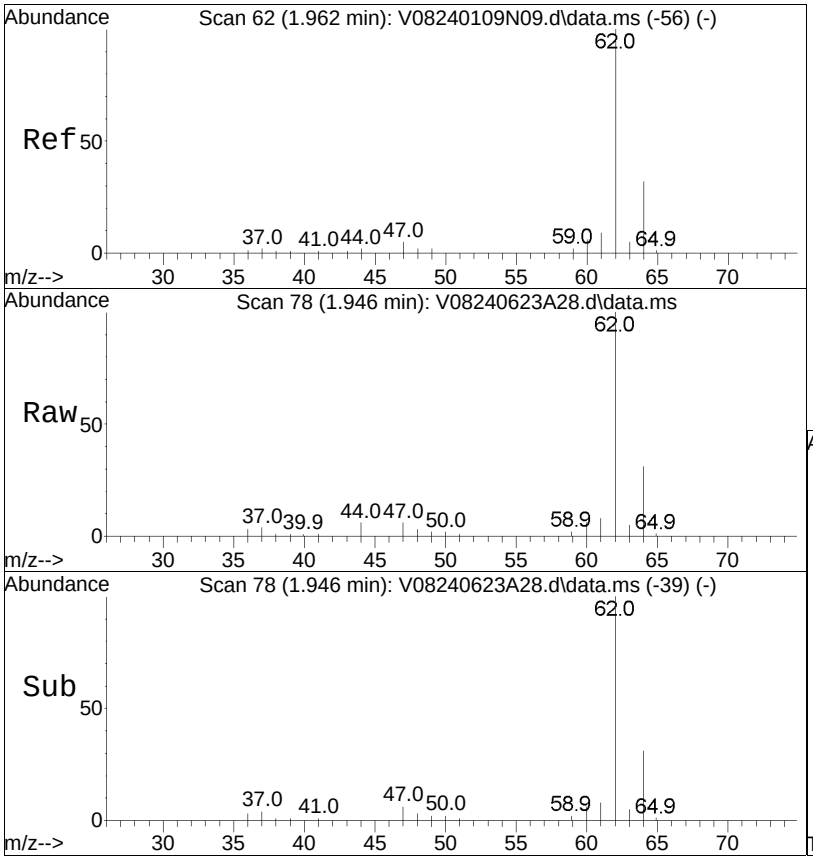


#3
Chloromethane
Concen: 10.75 ug/L
RT: 1.867 min Scan# 63
Delta R.T. -0.005 min
Lab File: V08240623A28.d
Acq: 23 Jun 2024 9:45 pm

Tgt Ion: 50 Resp: 82785

Ion	Ratio	Lower	Upper
50	100		
52	31.2	12.9	52.9
47	8.7	0.0	28.3

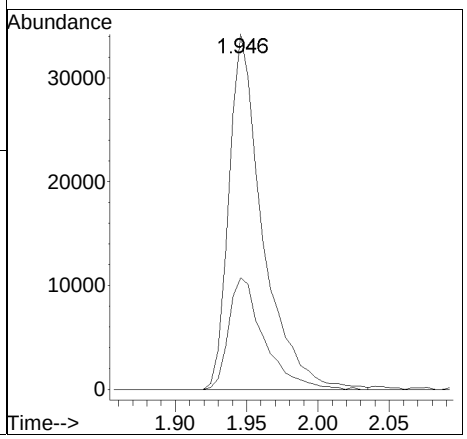


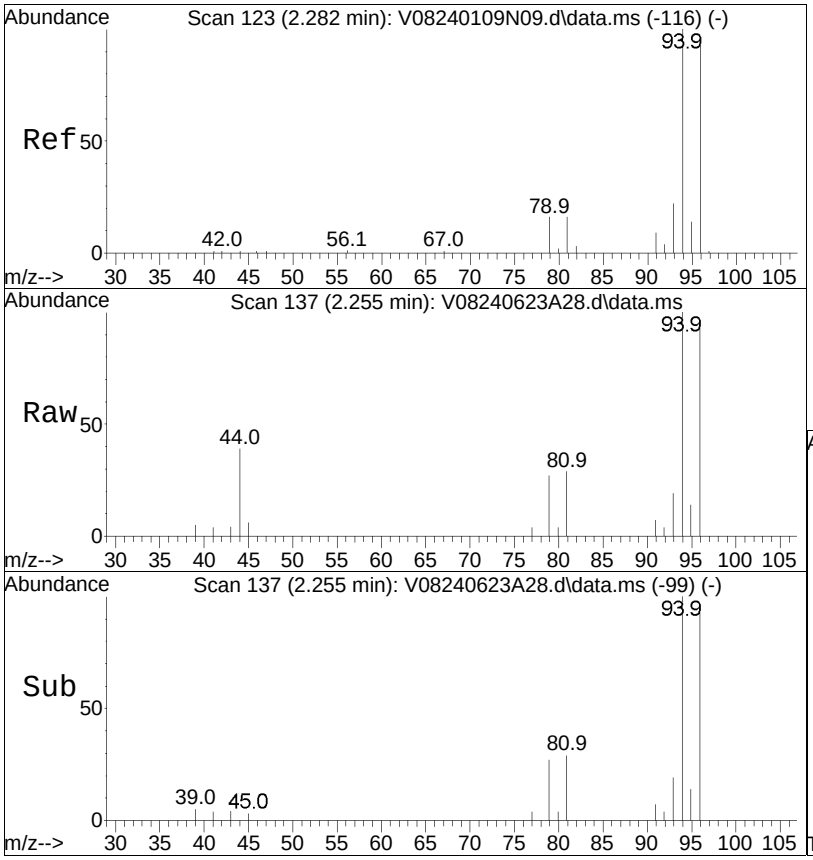


#4
Vinyl chloride
Concen: 6.85 ug/L
RT: 1.946 min Scan# 78
Delta R.T. 0.005 min
Lab File: V08240623A28.d
Acq: 23 Jun 2024 9:45 pm

Tgt Ion: 62 Resp: 56236

Ion	Ratio	Lower	Upper
62	100		
64	33.0	9.1	49.1

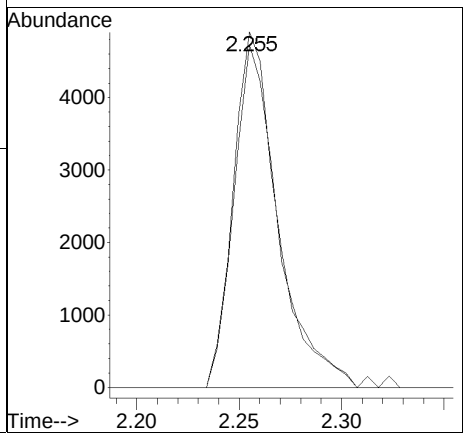


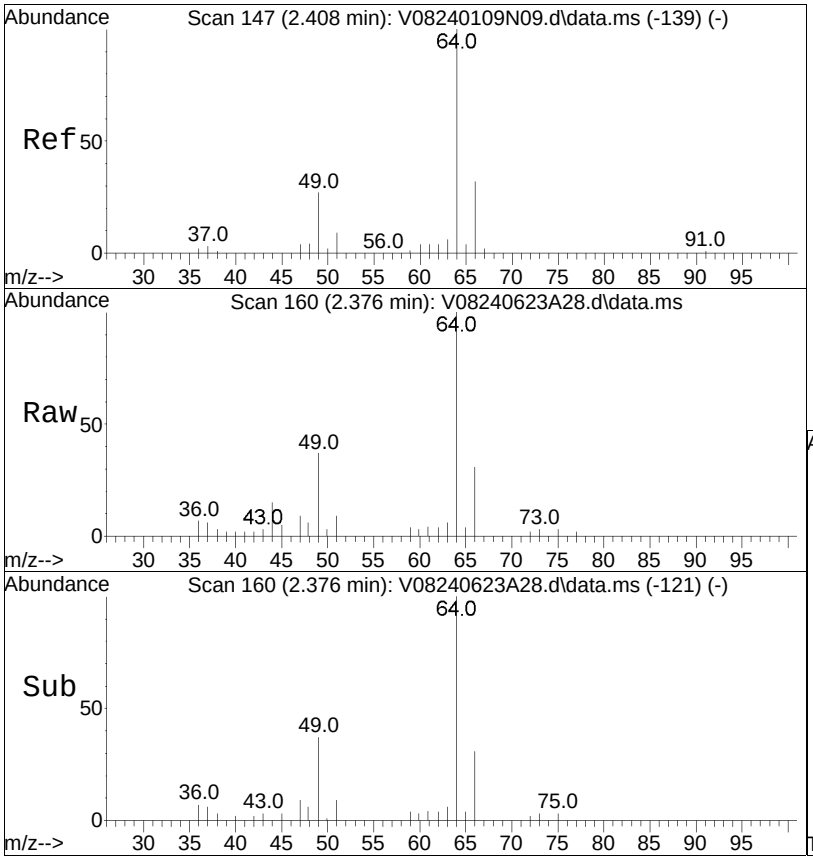


#5
Bromomethane
Concen: 1.80 ug/L
RT: 2.255 min Scan# 137
Delta R.T. 0.000 min
Lab File: V08240623A28.d
Acq: 23 Jun 2024 9:45 pm

Tgt Ion: 94 Resp: 7451

Ion	Ratio	Lower	Upper
94	100		
96	95.4	75.6	115.6

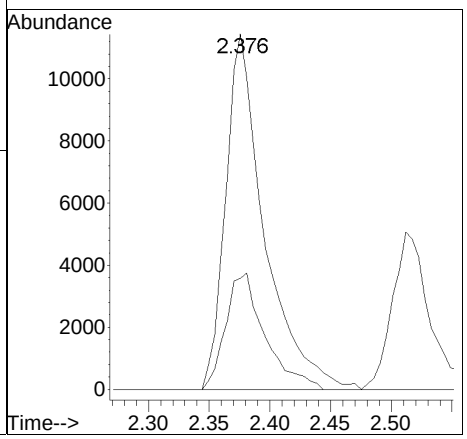


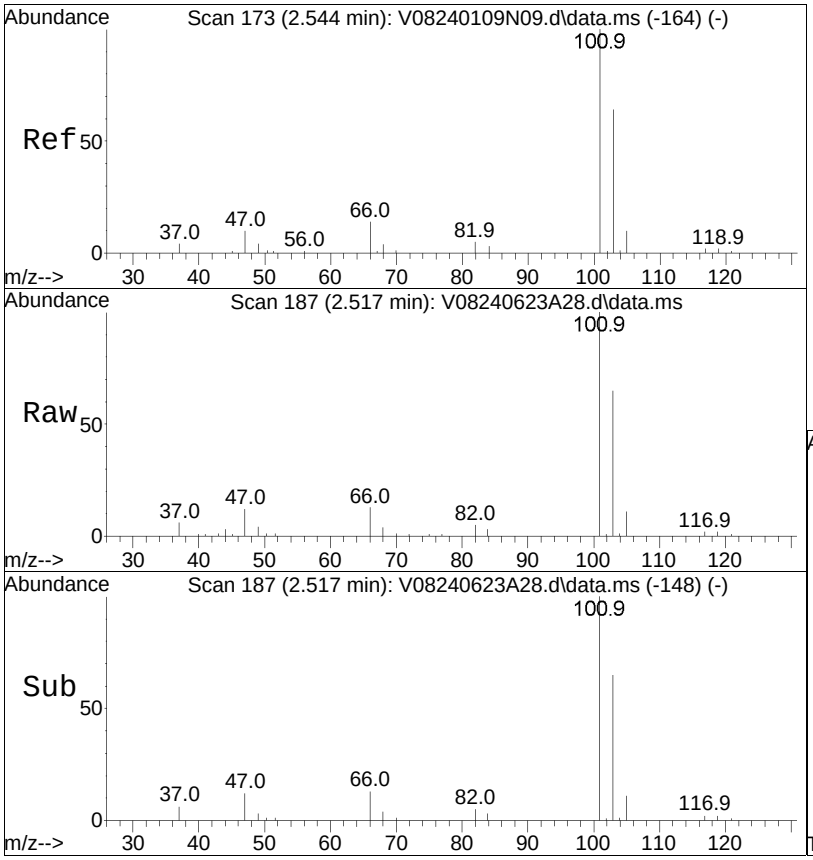


#6
Chloroethane
Concen: 5.53 ug/L
RT: 2.376 min Scan# 160
Delta R.T. 0.006 min
Lab File: V08240623A28.d
Acq: 23 Jun 2024 9:45 pm

Tgt Ion: 64 Resp: 25414

Ion	Ratio	Lower	Upper
64	100		
66	33.2	9.8	49.8

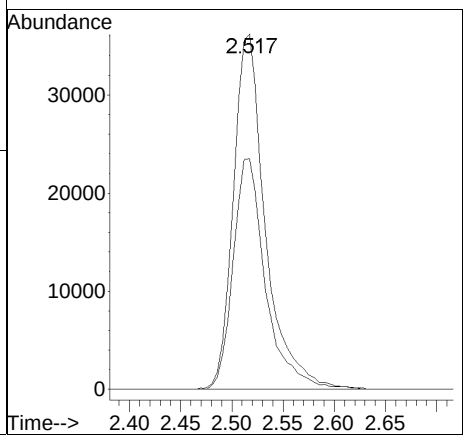


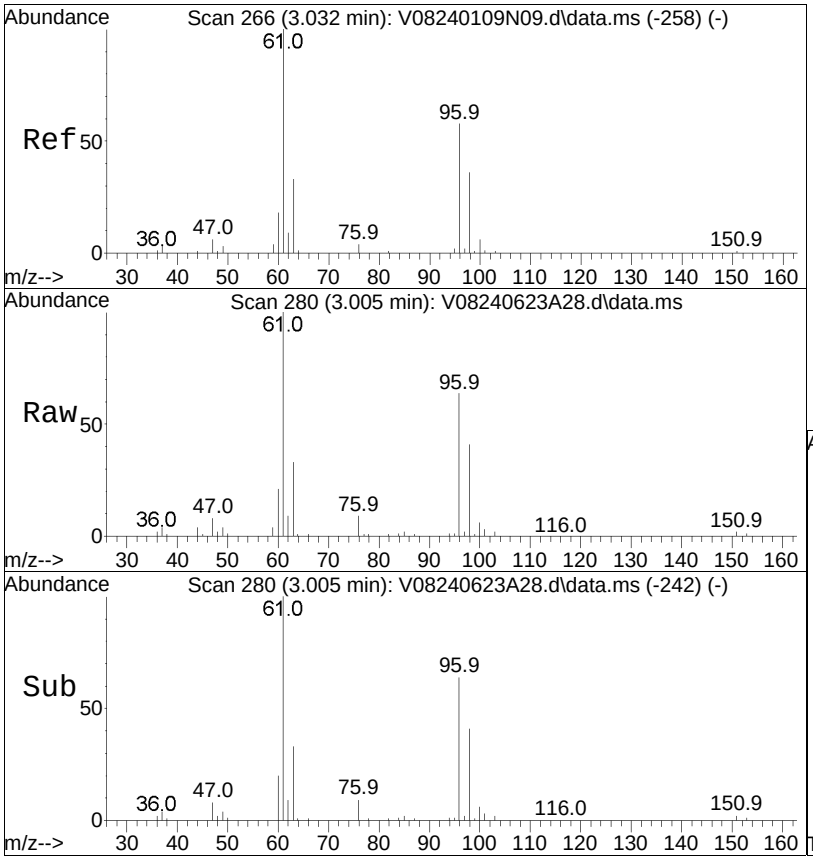


#7
Trichlorofluoromethane
Concen: 7.34 ug/L
RT: 2.517 min Scan# 187
Delta R.T. 0.005 min
Lab File: V08240623A28.d
Acq: 23 Jun 2024 9:45 pm

Tgt Ion:101 Resp: 78838

Ion	Ratio	Lower	Upper
101	100		
103	66.1	53.8	80.6

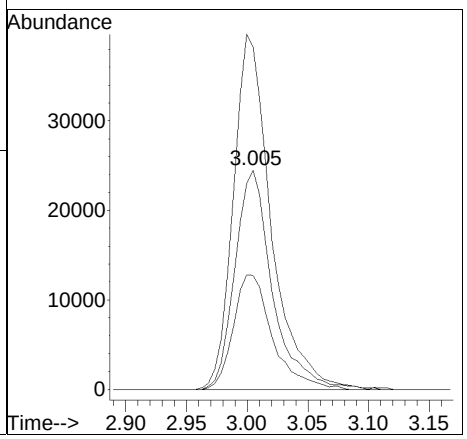


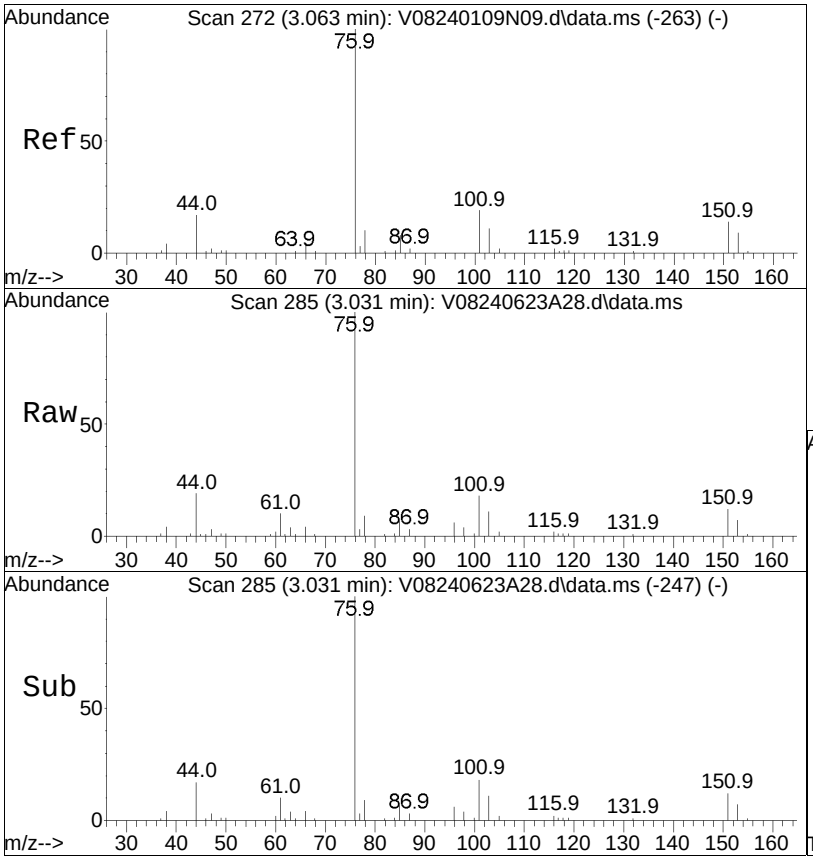


#10
1,1-Dichloroethene
Concen: 9.82 ug/L
RT: 3.005 min Scan# 280
Delta R.T. -0.000 min
Lab File: V08240623A28.d
Acq: 23 Jun 2024 9:45 pm

Tgt Ion: 96 Resp: 52556

Ion	Ratio	Lower	Upper
96	100		
61	163.4	186.1	279.1#
63	54.6	57.6	86.4#

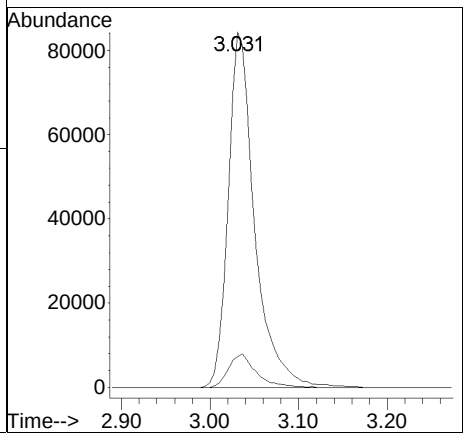


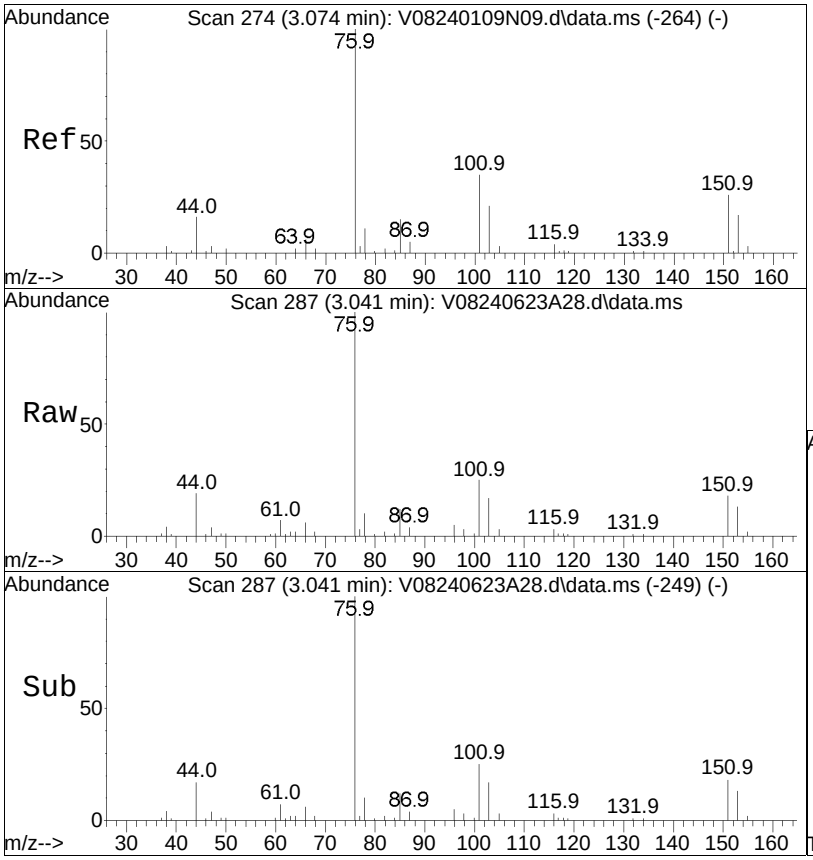


#11
Carbon disulfide
Concen: 9.61 ug/L
RT: 3.031 min Scan# 285
Delta R.T. -0.000 min
Lab File: V08240623A28.d
Acq: 23 Jun 2024 9:45 pm

Tgt Ion: 76 Resp: 175135

Ion	Ratio	Lower	Upper
76	100		
78	9.8	5.7	11.7

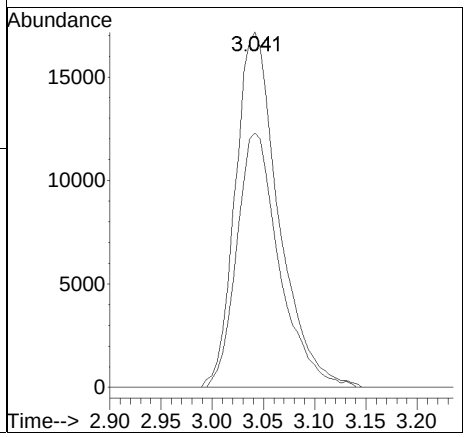


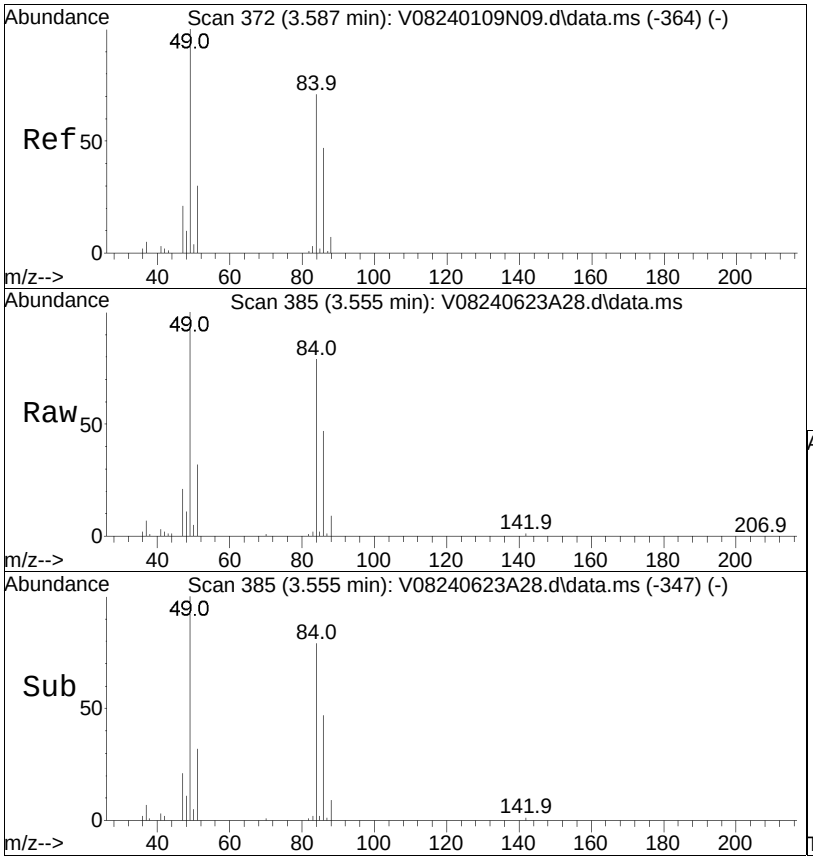


#12
Freon-113
Concen: 9.19 ug/L
RT: 3.041 min Scan# 287
Delta R.T. -0.001 min
Lab File: V08240623A28.d
Acq: 23 Jun 2024 9:45 pm

Tgt Ion:101 Resp: 50584

Ion	Ratio	Lower	Upper
101	100		
151	70.4	59.8	89.8

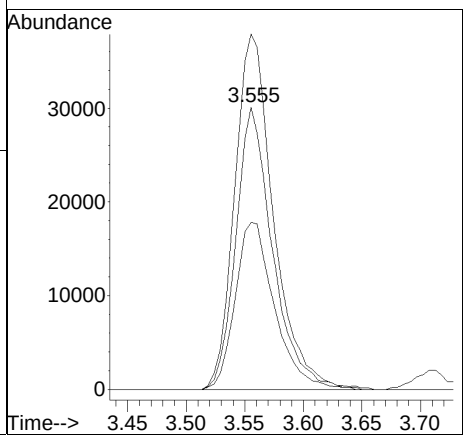


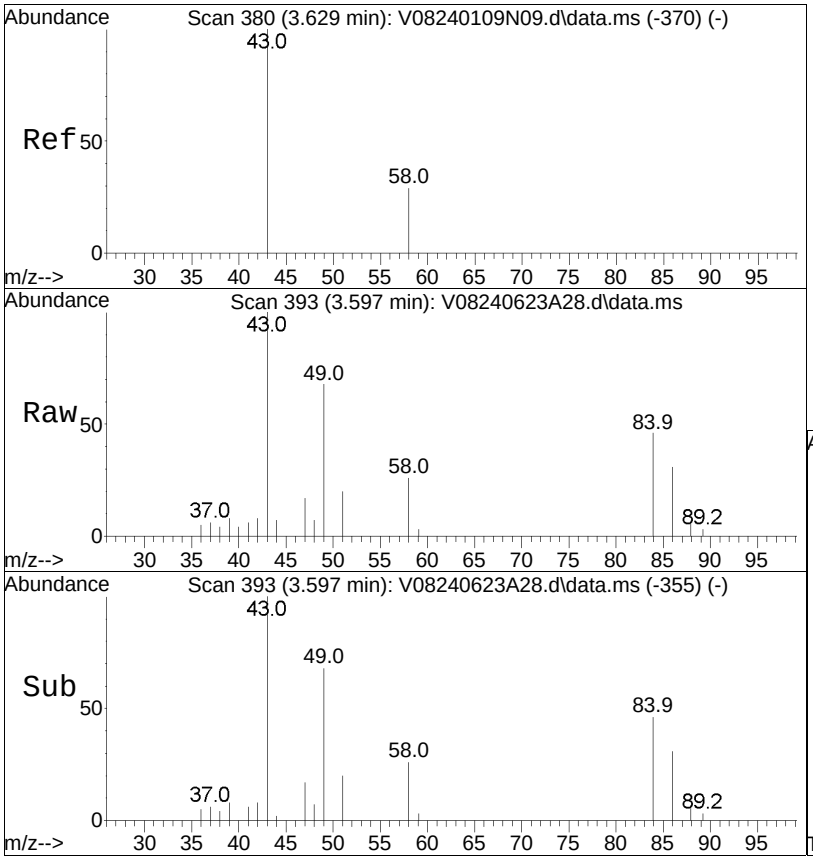


#15
Methylene chloride
Concen: 10.31 ug/L
RT: 3.555 min Scan# 385
Delta R.T. 0.000 min
Lab File: V08240623A28.d
Acq: 23 Jun 2024 9:45 pm

Tgt Ion: 84 Resp: 65802

Ion	Ratio	Lower	Upper
84	100		
86	63.3	40.4	83.8
49	133.0	120.0	249.2

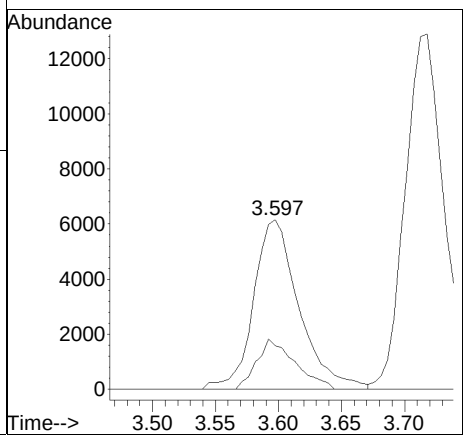


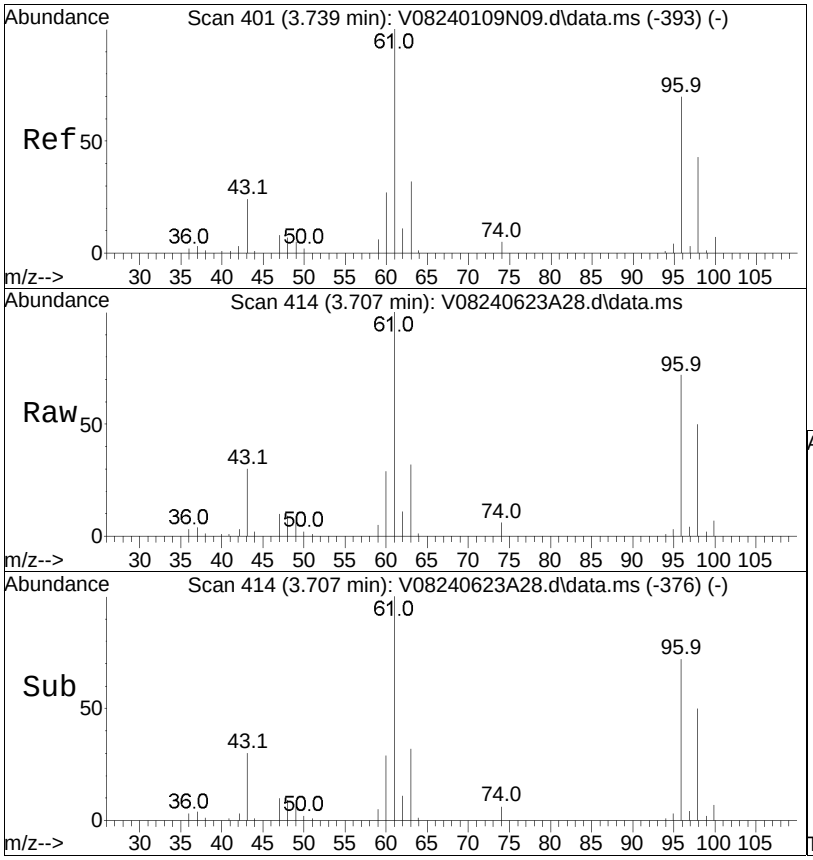


#17
Acetone
Concen: 12.16 ug/L
RT: 3.597 min Scan# 393
Delta R.T. 0.000 min
Lab File: V08240623A28.d
Acq: 23 Jun 2024 9:45 pm

Tgt Ion: 43 Resp: 15495

Ion	Ratio	Lower	Upper
43	100		
58	25.0	24.2	36.4

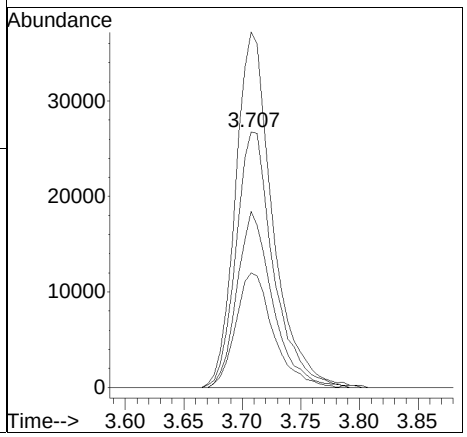


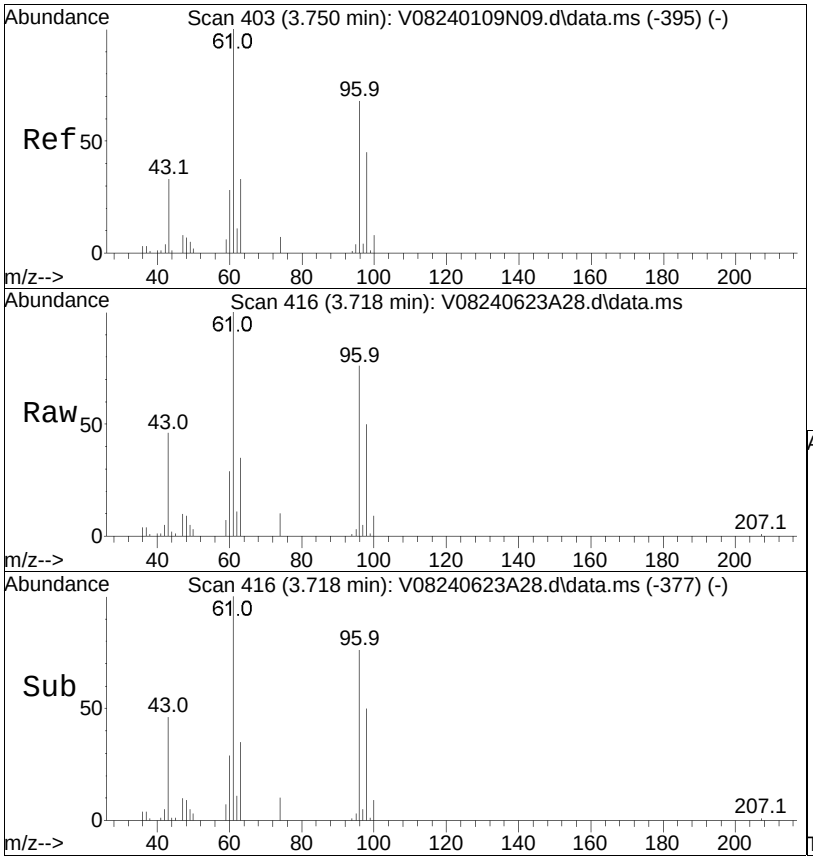


#18
trans-1,2-Dichloroethene
Concen: 9.82 ug/L
RT: 3.707 min Scan# 414
Delta R.T. 0.000 min
Lab File: V08240623A28.d
Acq: 23 Jun 2024 9:45 pm

Tgt Ion: 96 Resp: 59533

Ion	Ratio	Lower	Upper
96	100		
61	137.8	124.0	257.6
98	65.9	41.2	85.6
63	45.2	38.4	79.7

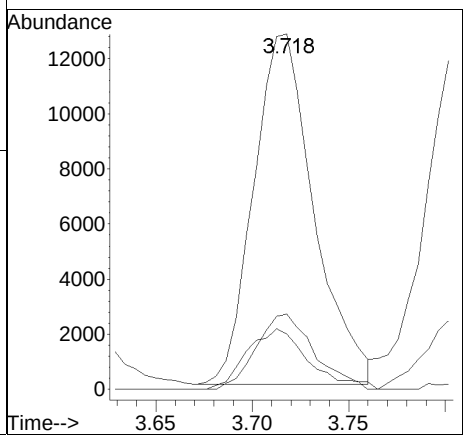


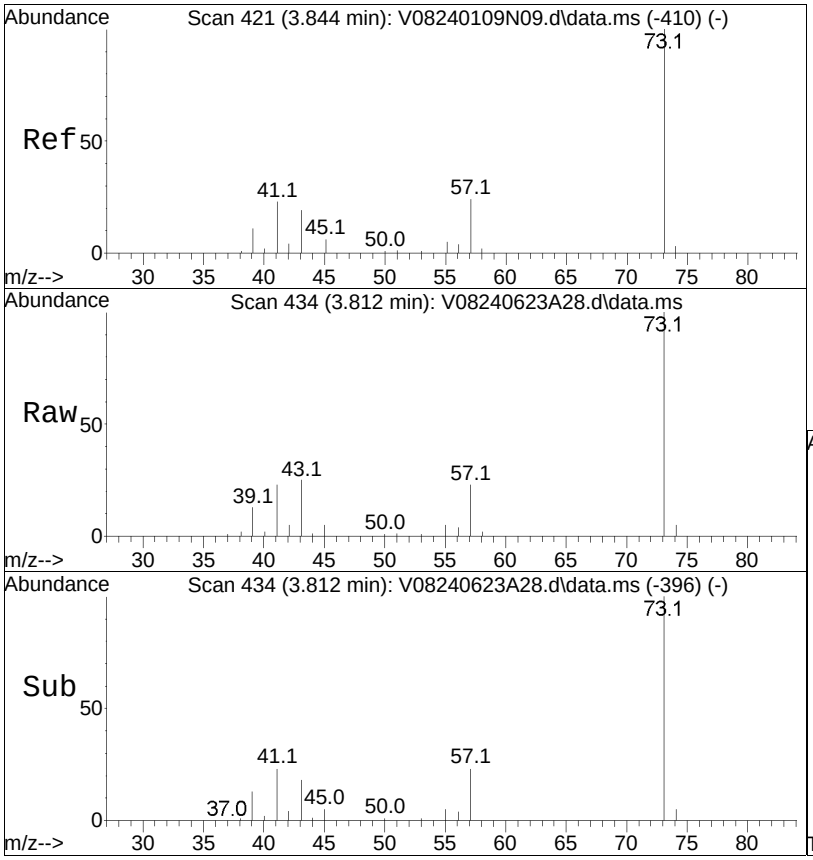


#19
Methyl acetate
Concen: 8.06 ug/L
RT: 3.718 min Scan# 416
Delta R.T. 0.005 min
Lab File: V08240623A28.d
Acq: 23 Jun 2024 9:45 pm

Tgt Ion: 43 Resp: 27672

Ion	Ratio	Lower	Upper
43	100		
74	20.9	14.2	21.4
59	17.5	5.0	7.6#

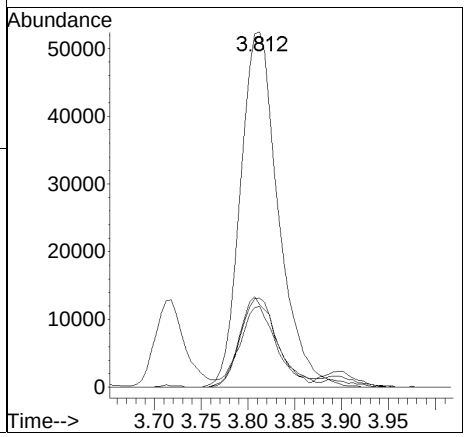


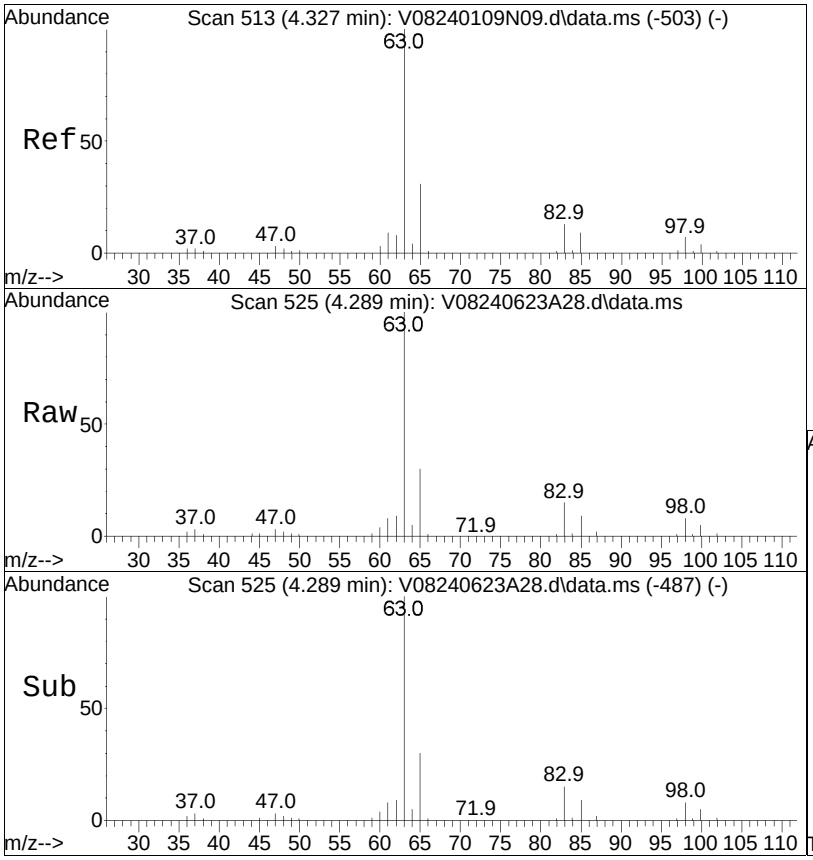


#20
Methyl tert-butyl ether
Concen: 9.08 ug/L
RT: 3.812 min Scan# 434
Delta R.T. 0.000 min
Lab File: V08240623A28.d
Acq: 23 Jun 2024 9:45 pm

Tgt Ion: 73 Resp: 148262

Ion	Ratio	Lower	Upper
73	100		
57	22.2	17.5	36.3
43	25.2	15.3	31.9
41	25.3	15.3	31.7

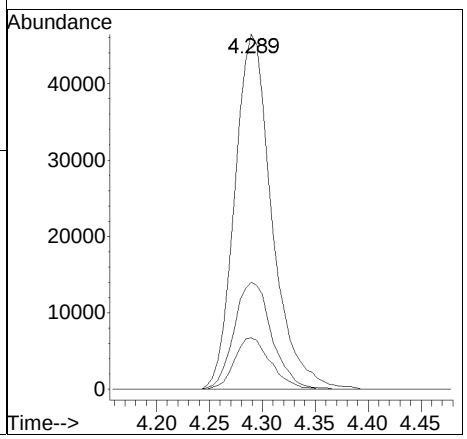


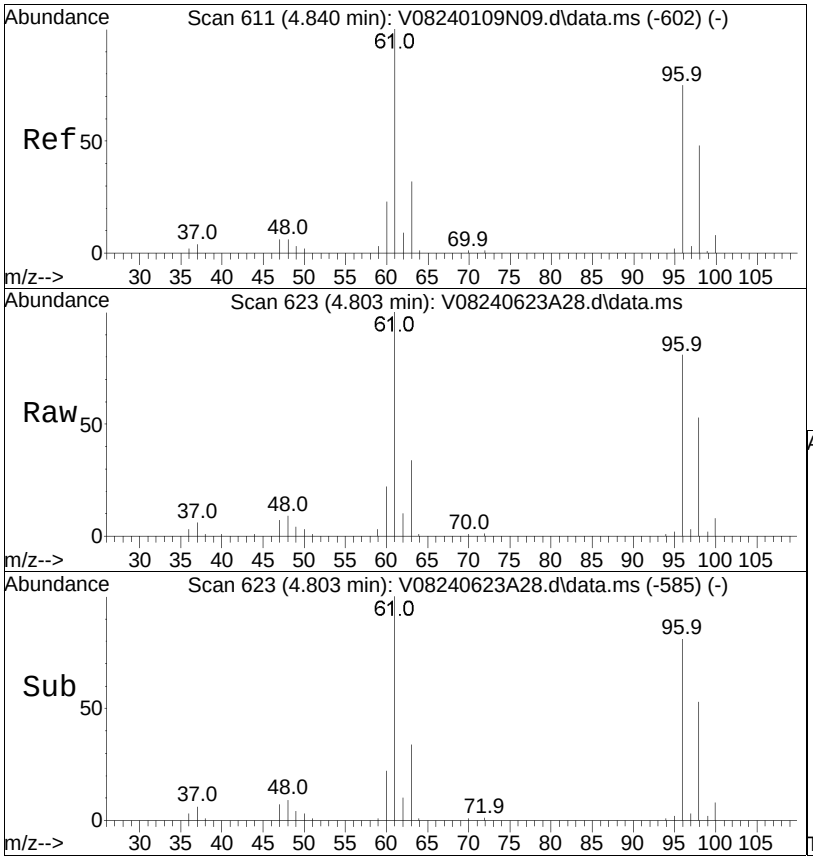


#23
1,1-Dichloroethane
Concen: 9.56 ug/L
RT: 4.289 min Scan# 525
Delta R.T. 0.000 min
Lab File: V08240623A28.d
Acq: 23 Jun 2024 9:45 pm

Tgt Ion: 63 Resp: 113692

Ion	Ratio	Lower	Upper
63	100		
65	30.7	11.0	51.0
83	14.2	0.0	31.8

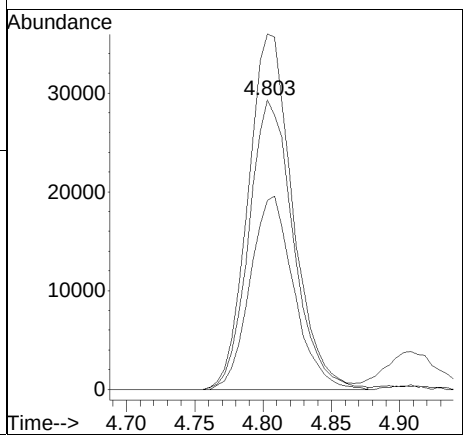


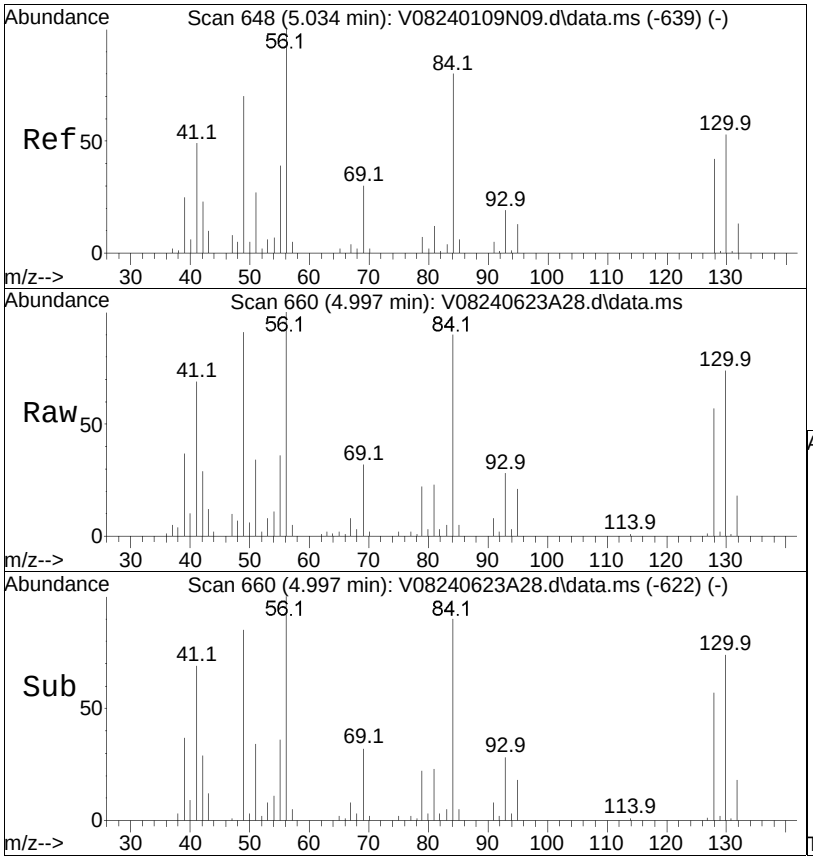


#28
cis-1,2-Dichloroethene
Concen: 9.76 ug/L
RT: 4.803 min Scan# 623
Delta R.T. 0.000 min
Lab File: V08240623A28.d
Acq: 23 Jun 2024 9:45 pm

Tgt Ion: 96 Resp: 66301

Ion	Ratio	Lower	Upper
96	100		
61	123.2	149.4	224.2#
98	65.8	53.4	80.2

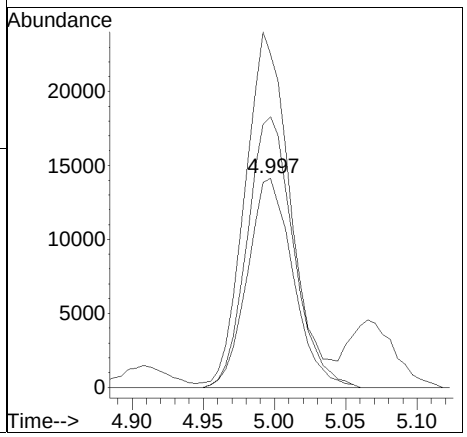


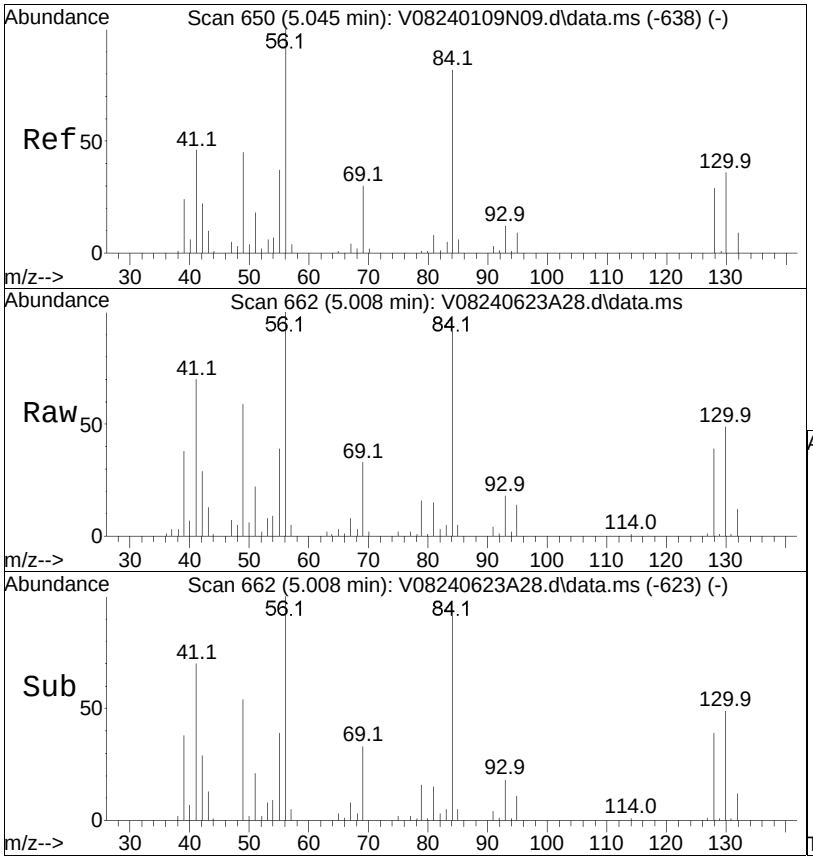


#30
Bromochloromethane
Concen: 9.60 ug/L
RT: 4.997 min Scan# 660
Delta R.T. 0.000 min
Lab File: V08240623A28.d
Acq: 23 Jun 2024 9:45 pm

Tgt Ion:128 Resp: 31514

Ion	Ratio	Lower	Upper
128	100		
49	170.6	223.0	334.4#
130	130.6	111.4	167.0

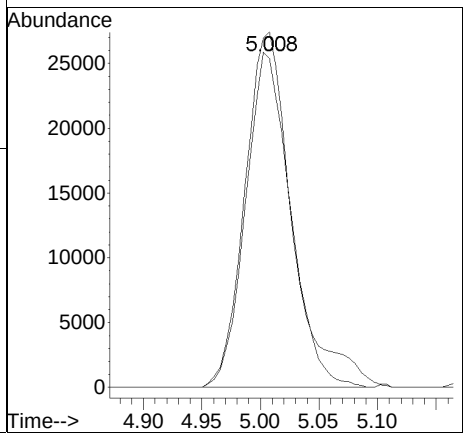


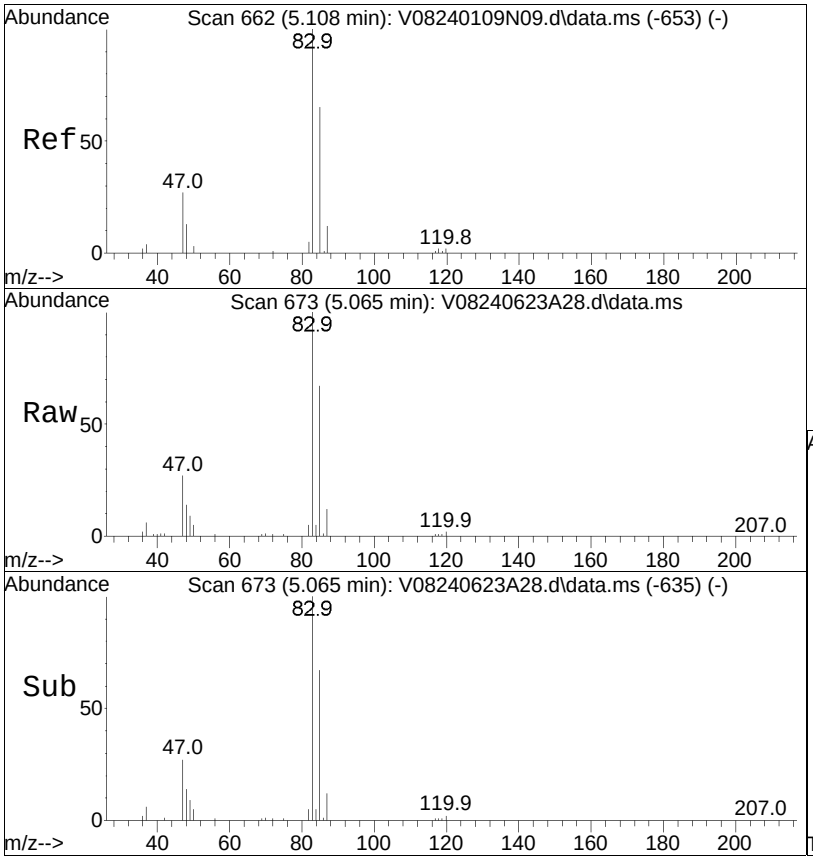


#31
Cyclohexane
Concen: 6.91 ug/L
RT: 5.008 min Scan# 662
Delta R.T. 0.006 min
Lab File: V08240623A28.d
Acq: 23 Jun 2024 9:45 pm

Tgt Ion: 56 Resp: 73634

Ion	Ratio	Lower	Upper
56	100		
84	99.3	38.4	79.8#

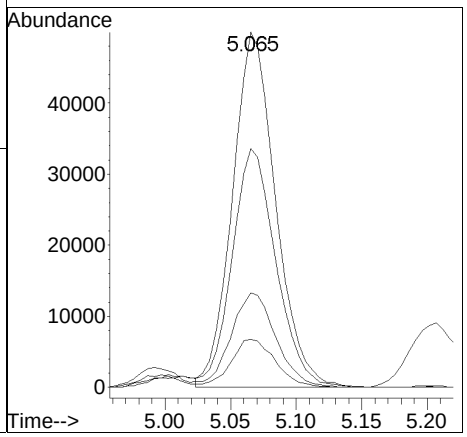


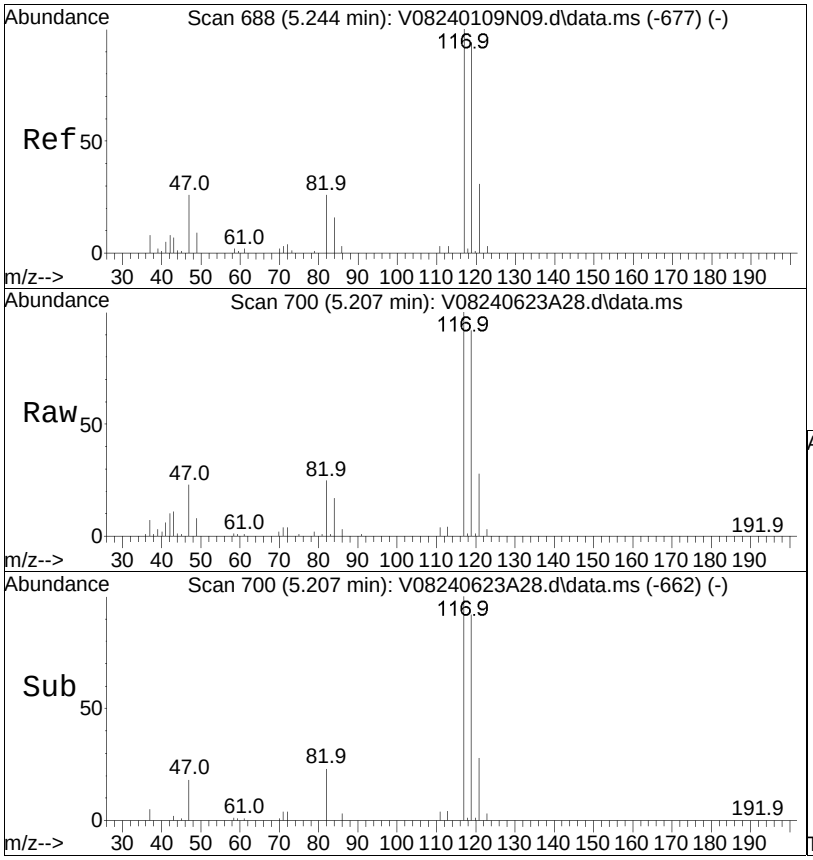


#32
Chloroform
Concen: 9.98 ug/L
RT: 5.065 min Scan# 673
Delta R.T. 0.000 min
Lab File: V08240623A28.d
Acq: 23 Jun 2024 9:45 pm

Tgt Ion: 83 Resp: 114643

Ion	Ratio	Lower	Upper
83	100		
85	68.2	41.5	86.1
47	27.7	19.0	39.4
48	14.0	9.9	20.5

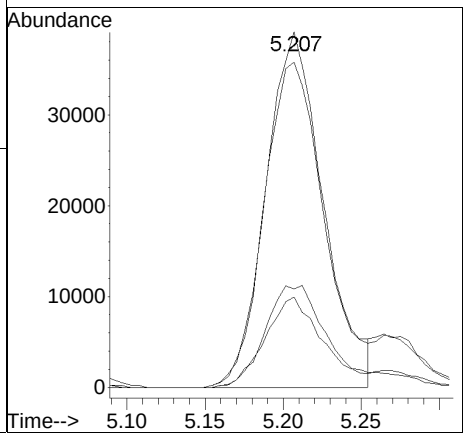


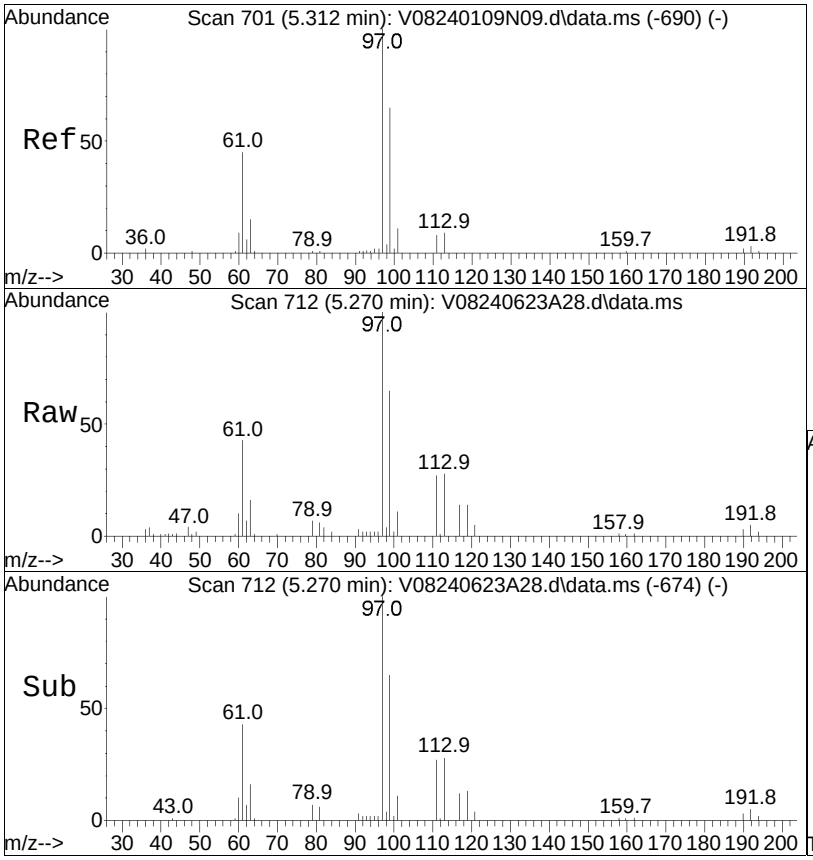


#34
Carbon tetrachloride
Concen: 10.73 ug/L
RT: 5.207 min Scan# 700
Delta R.T. -0.000 min
Lab File: V08240623A28.d
Acq: 23 Jun 2024 9:45 pm

Tgt Ion:117 Resp: 100310

Ion	Ratio	Lower	Upper
117	100		
119	95.3	62.4	129.6
121	30.3	19.5	40.5
82	28.9	17.0	35.4

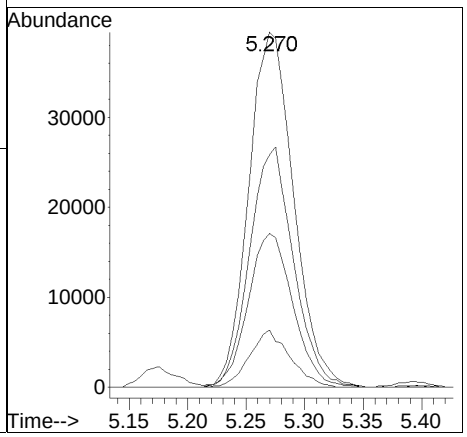


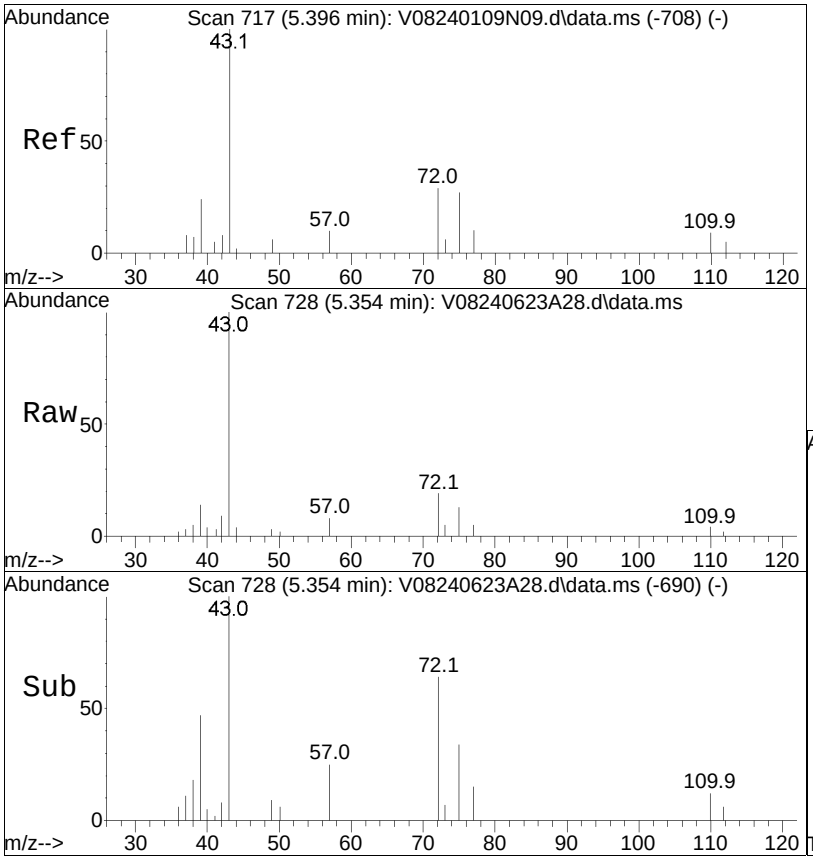


#37
1,1,1-Trichloroethane
Concen: 10.54 ug/L
RT: 5.270 min Scan# 712
Delta R.T. -0.000 min
Lab File: V08240623A28.d
Acq: 23 Jun 2024 9:45 pm

Tgt Ion: 97 Resp: 105832

Ion	Ratio	Lower	Upper
97	100		
99	65.9	40.7	84.5
61	43.4	35.4	73.4
63	14.6	5.0	10.4#

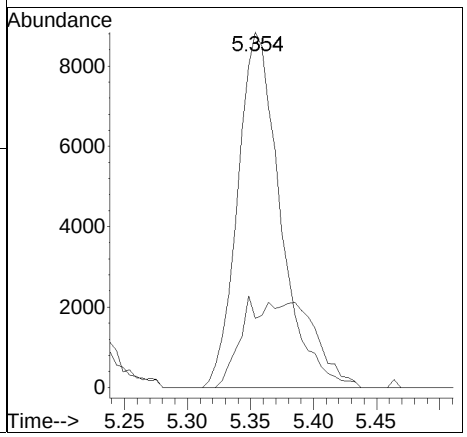


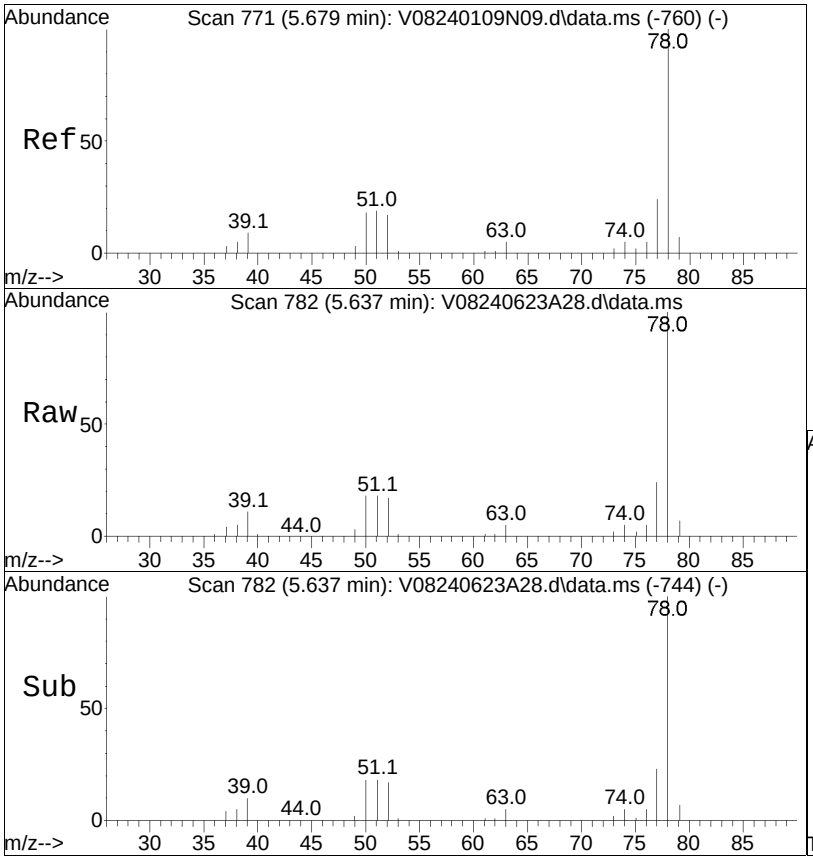


#39
2-Butanone
Concen: 9.39 ug/L
RT: 5.354 min Scan# 728
Delta R.T. -0.000 min
Lab File: V08240623A28.d
Acq: 23 Jun 2024 9:45 pm

Tgt Ion: 43 Resp: 20784

Ion	Ratio	Lower	Upper
43	100		
72	13.2	10.9	16.3

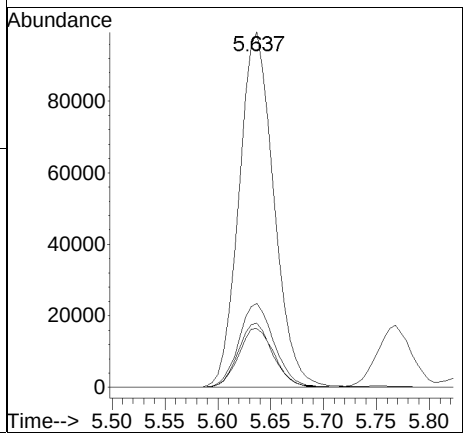


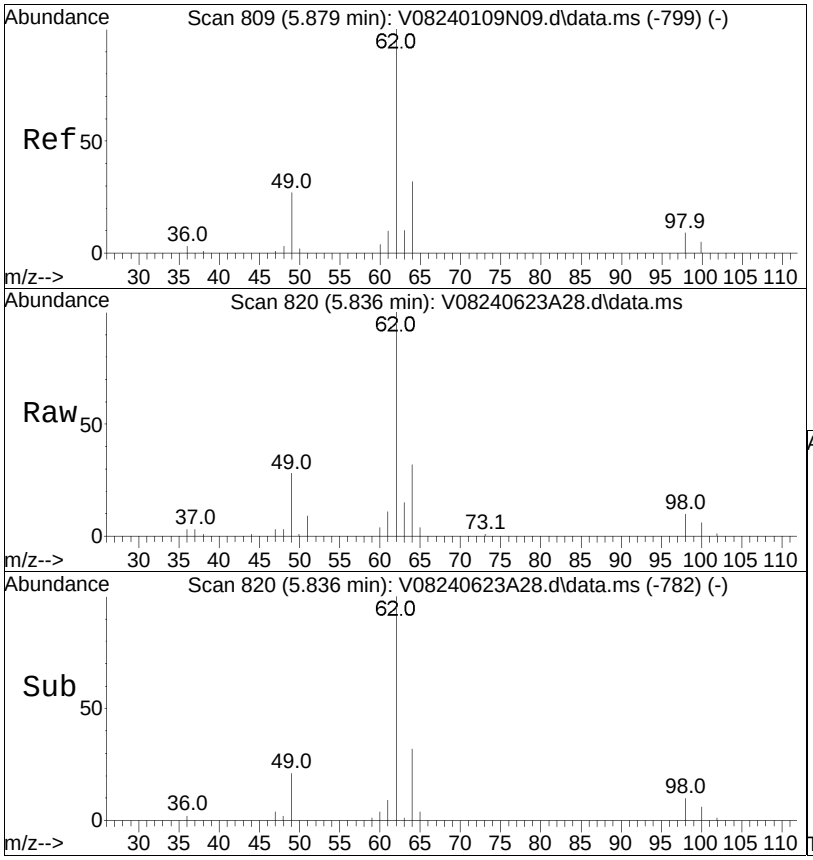


#41
Benzene
Concen: 9.04 ug/L
RT: 5.637 min Scan# 782
Delta R.T. -0.000 min
Lab File: V08240623A28.d
Acq: 23 Jun 2024 9:45 pm

Tgt Ion: 78 Resp: 227482

Ion	Ratio	Lower	Upper
78	100		
77	24.0	15.7	32.7
51	18.3	16.0	33.2
52	16.8	15.3	31.9

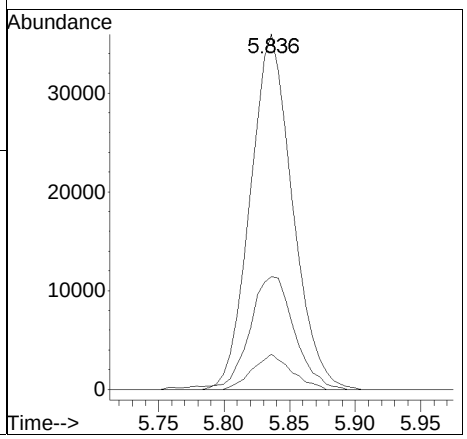


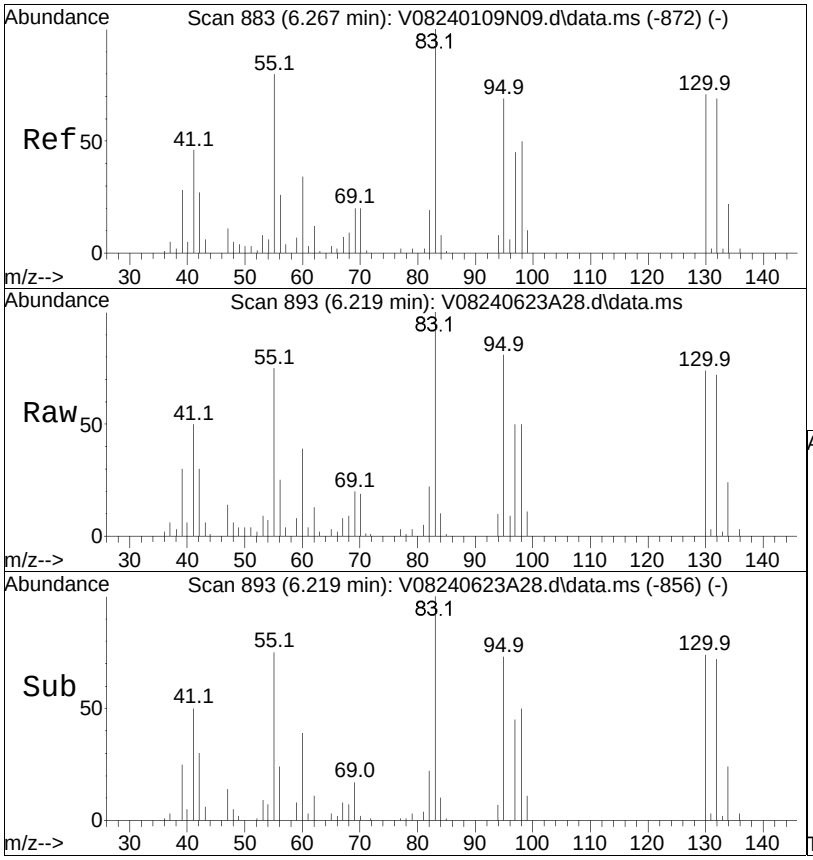


#44
1,2-Dichloroethane
Concen: 9.51 ug/L
RT: 5.836 min Scan# 820
Delta R.T. 0.000 min
Lab File: V08240623A28.d
Acq: 23 Jun 2024 9:45 pm

Tgt Ion: 62 Resp: 80275

Ion	Ratio	Lower	Upper
62	100		
64	34.1	11.2	51.2
98	9.2	0.0	26.1

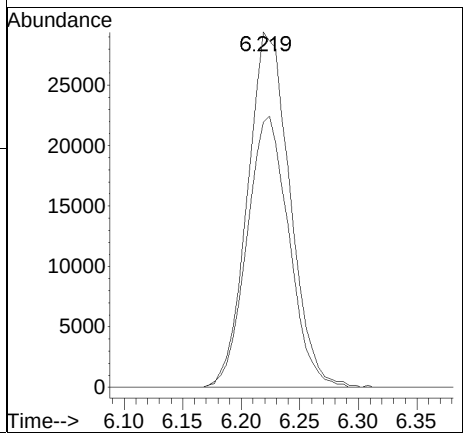


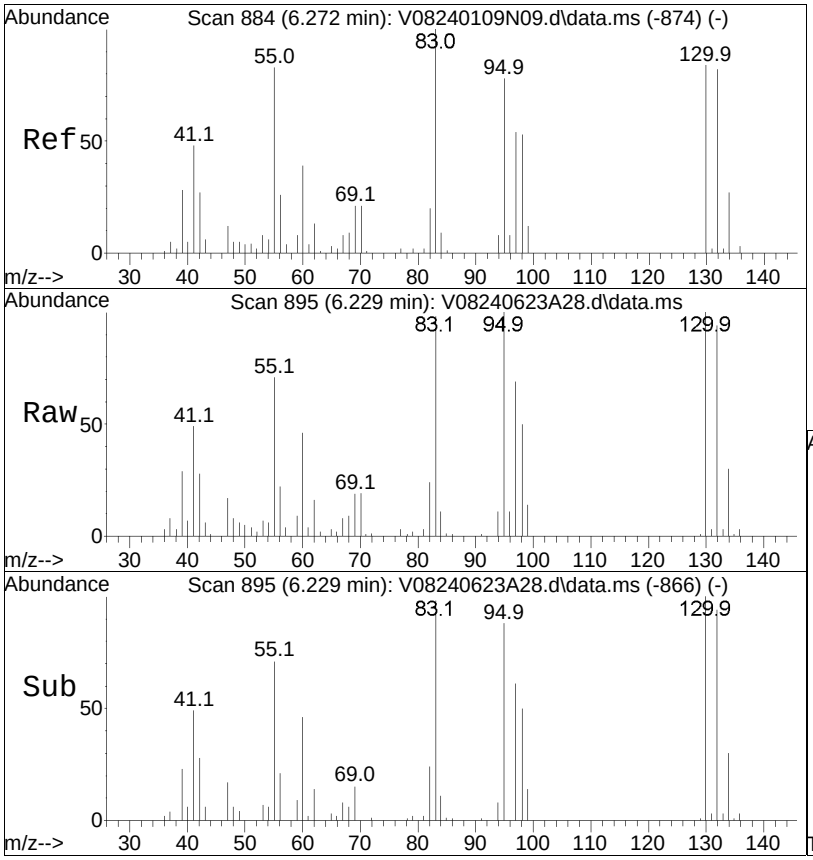


#47
Methyl cyclohexane
Concen: 7.43 ug/L
RT: 6.219 min Scan# 893
Delta R.T. -0.005 min
Lab File: V08240623A28.d
Acq: 23 Jun 2024 9:45 pm

Tgt Ion: 83 Resp: 74190

Ion	Ratio	Lower	Upper
83	100		
55	75.6	88.3	132.5#

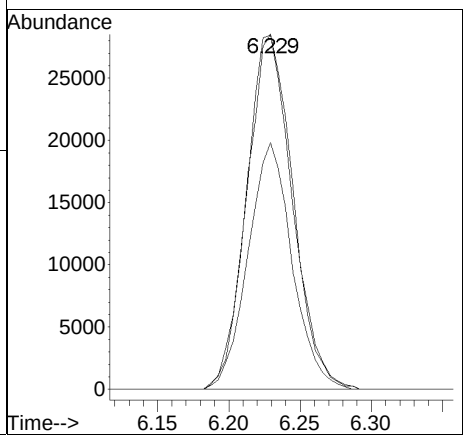


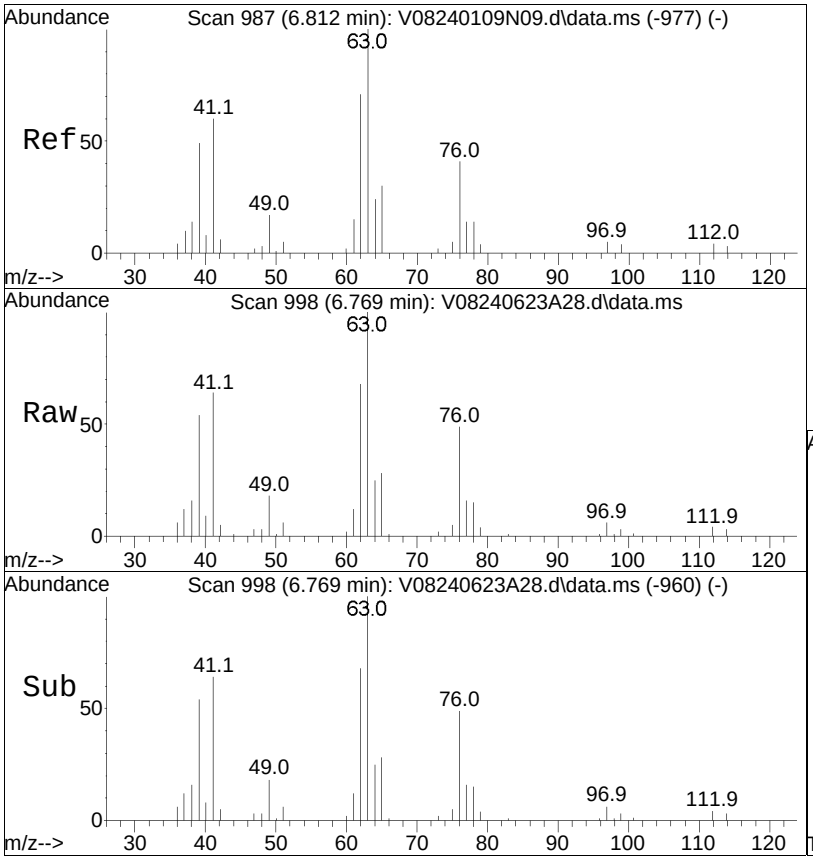


#48
Trichloroethene
Concen: 9.60 ug/L
RT: 6.229 min Scan# 895
Delta R.T. 0.000 min
Lab File: V08240623A28.d
Acq: 23 Jun 2024 9:45 pm

Tgt Ion: 95 Resp: 63751

Ion	Ratio	Lower	Upper
95	100		
97	66.9	55.5	83.3
130	100.8	76.6	115.0

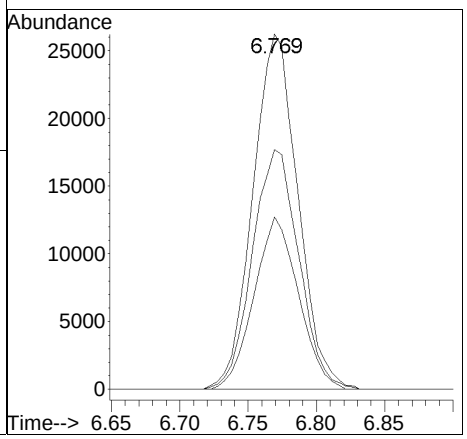


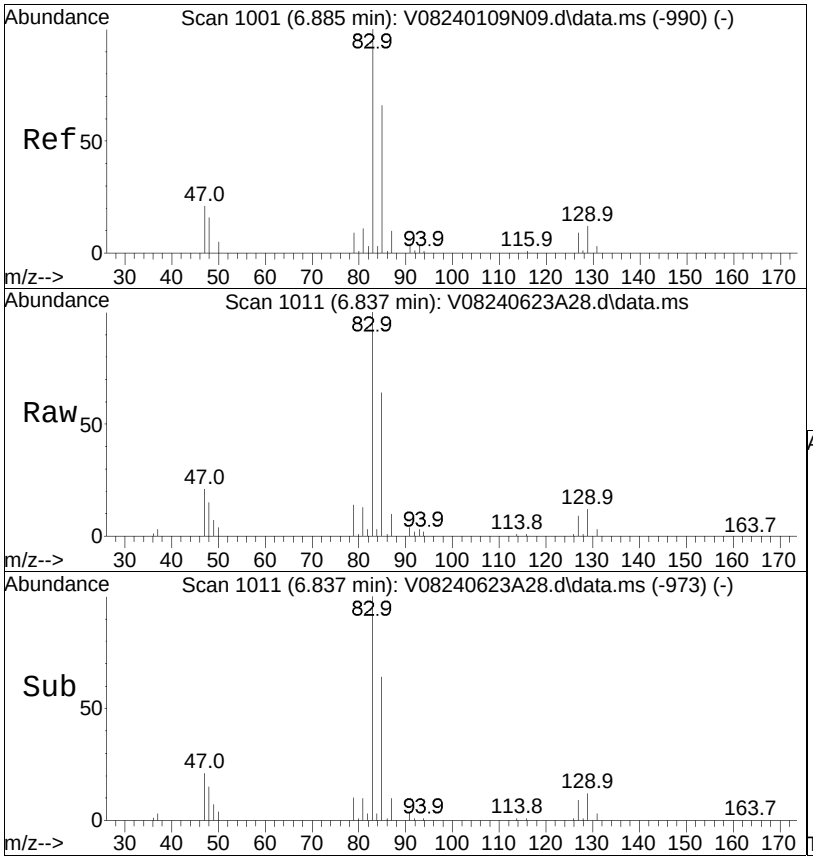


#51
1,2-Dichloropropane
Concen: 9.01 ug/L
RT: 6.769 min Scan# 998
Delta R.T. 0.000 min
Lab File: V08240623A28.d
Acq: 23 Jun 2024 9:45 pm

Tgt Ion: 63 Resp: 60173

Ion	Ratio	Lower	Upper
63	100		
62	69.5	58.6	87.8
76	47.9	38.0	57.0

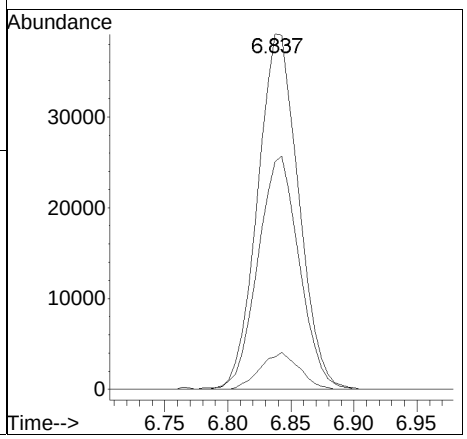


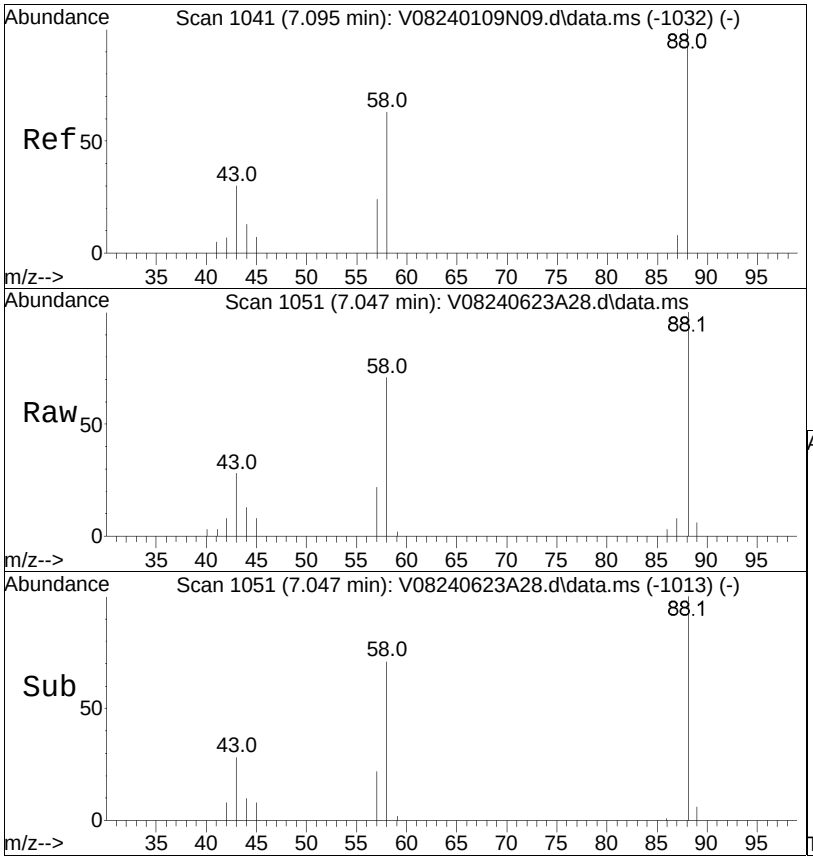


#54
Bromodichloromethane
Concen: 9.65 ug/L
RT: 6.837 min Scan# 1011
Delta R.T. -0.001 min
Lab File: V08240623A28.d
Acq: 23 Jun 2024 9:45 pm

Tgt Ion: 83 Resp: 88618

Ion	Ratio	Lower	Upper
83	100		
85	66.2	52.3	78.5
127	10.0	6.2	9.4#

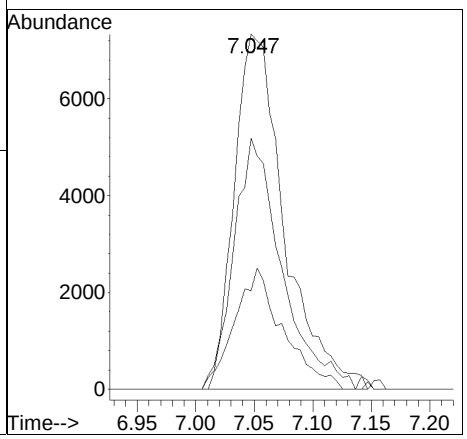


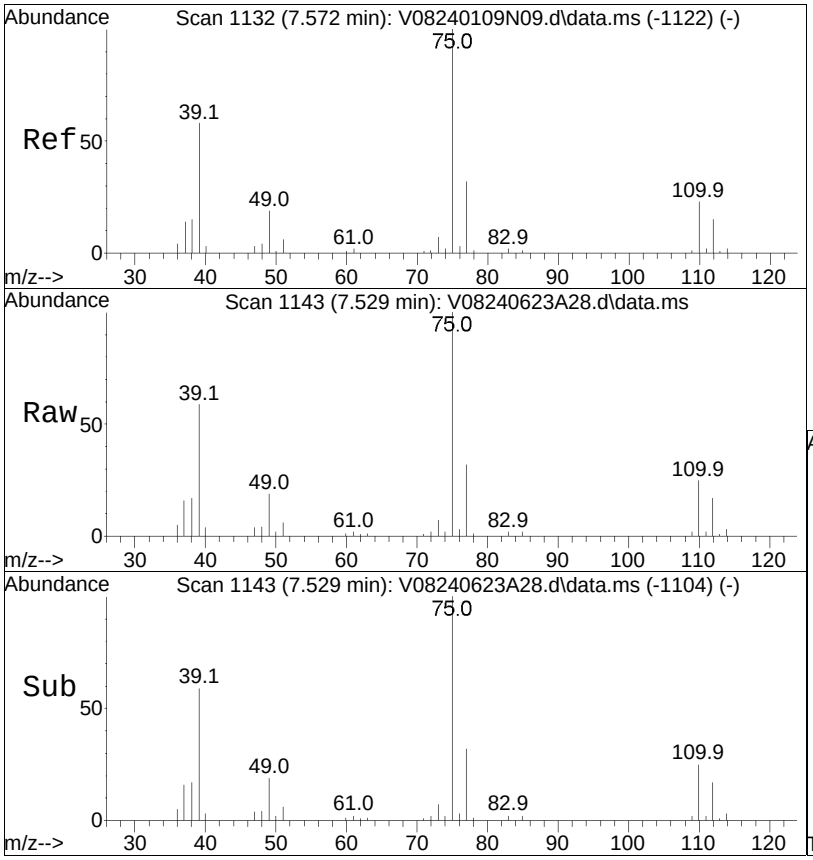


#57
1,4-Dioxane
Concen: 579.02 ug/L
RT: 7.047 min Scan# 1051
Delta R.T. 0.000 min
Lab File: V08240623A28.d
Acq: 23 Jun 2024 9:45 pm

Tgt Ion: 88 Resp: 21994

Ion	Ratio	Lower	Upper
88	100		
58	67.2	76.7	115.1#
43	32.5	36.2	54.2#

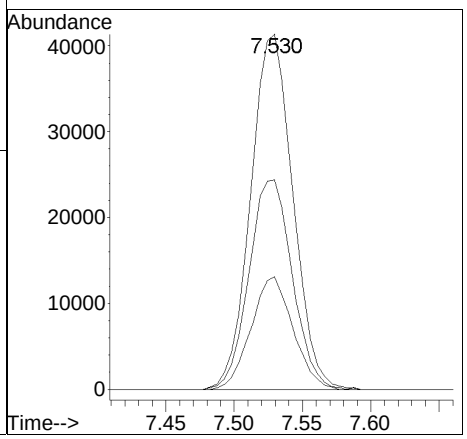


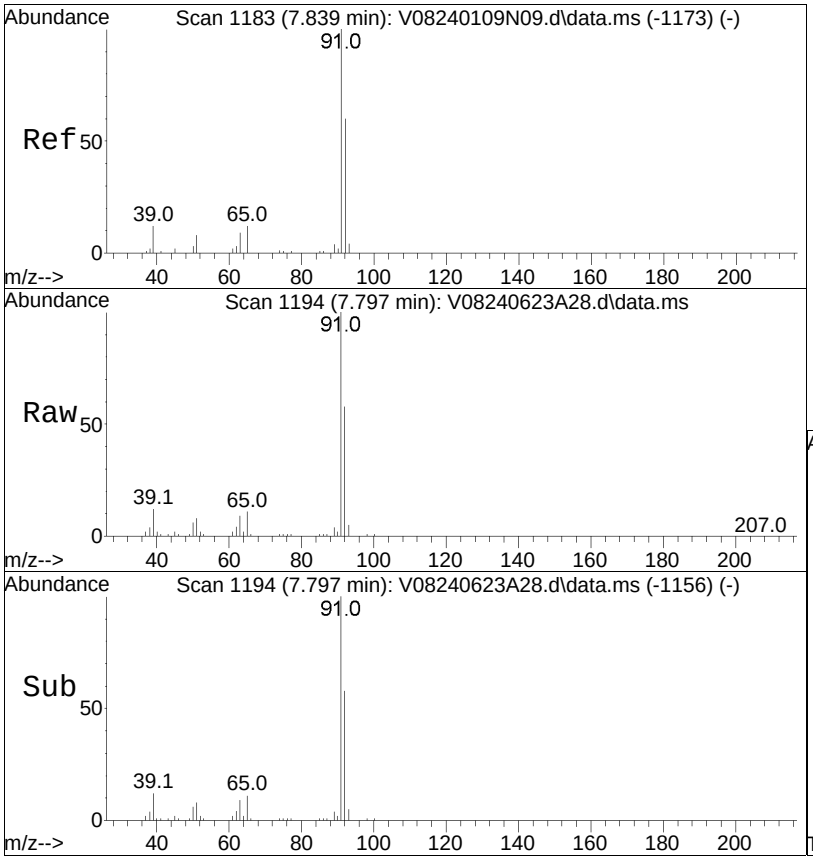


#58
cis-1,3-Dichloropropene
Concen: 8.34 ug/L
RT: 7.529 min Scan# 1143
Delta R.T. 0.005 min
Lab File: V08240623A28.d
Acq: 23 Jun 2024 9:45 pm

Tgt Ion: 75 Resp: 88767

Ion	Ratio	Lower	Upper
75	100		
77	31.5	25.0	37.4
39	60.6	50.1	75.1

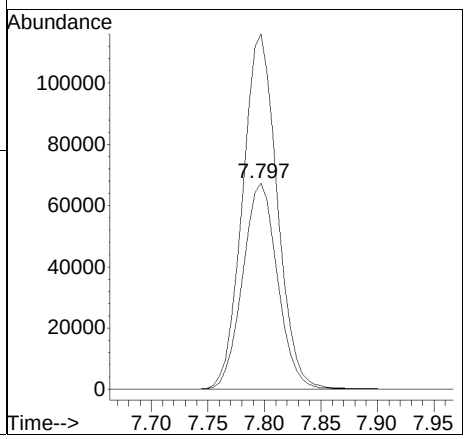


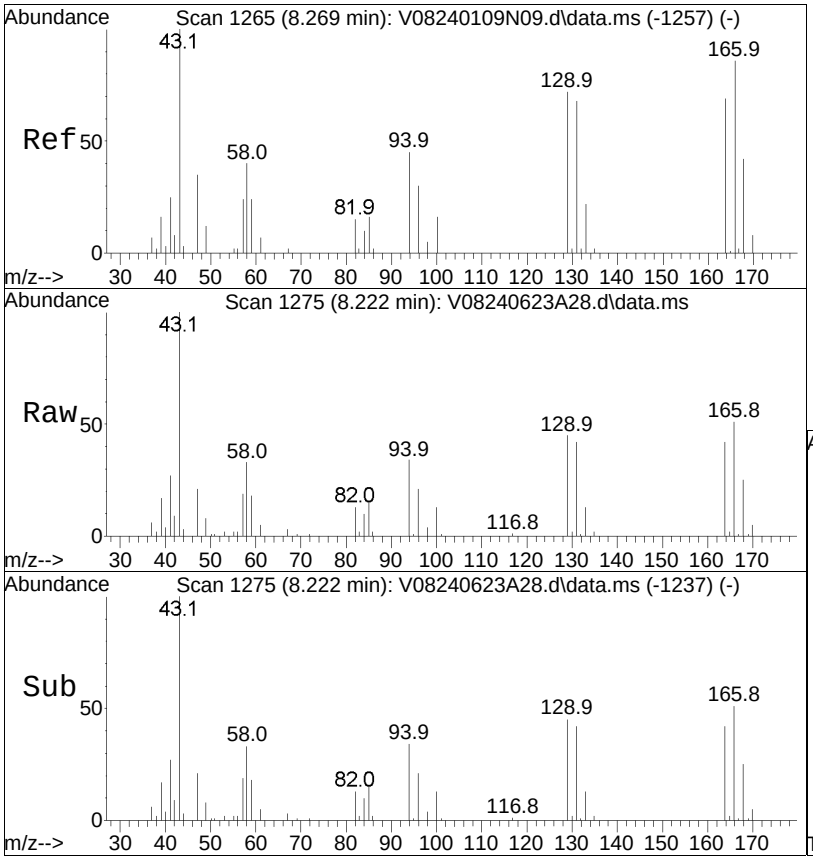


#61
Toluene
Concen: 9.05 ug/L
RT: 7.797 min Scan# 1194
Delta R.T. -0.000 min
Lab File: V08240623A28.d
Acq: 23 Jun 2024 9:45 pm

Tgt Ion: 92 Resp: 144701

Ion	Ratio	Lower	Upper
92	100		
91	171.1	139.8	209.6

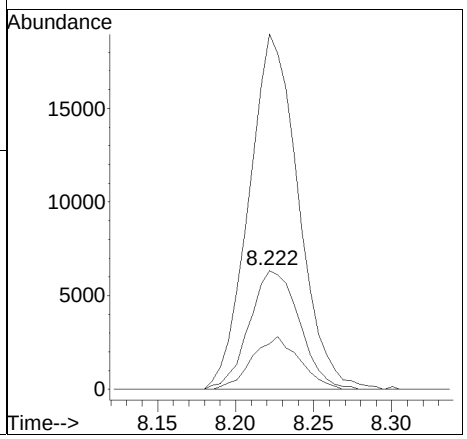


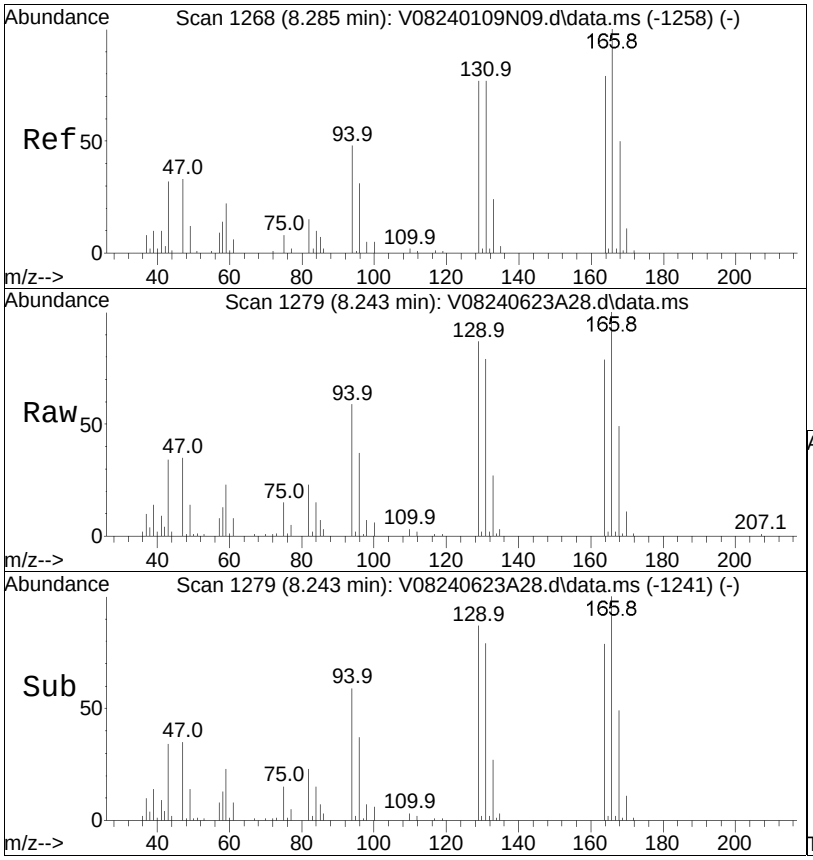


#62
4-Methyl-2-pentanone
Concen: 8.10 ug/L
RT: 8.222 min Scan# 1275
Delta R.T. -0.000 min
Lab File: V08240623A28.d
Acq: 23 Jun 2024 9:45 pm

Tgt Ion: 58 Resp: 14216

Ion	Ratio	Lower	Upper
58	100		
100	42.1	20.2	30.2#
43	294.9	196.6	295.0

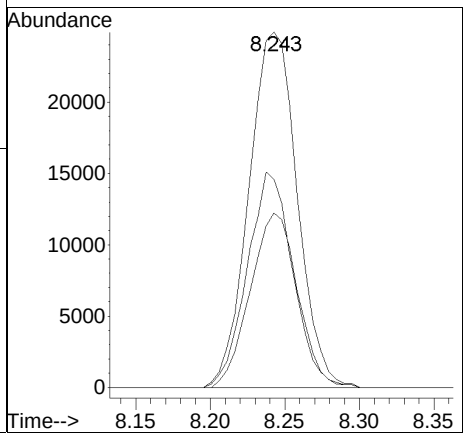


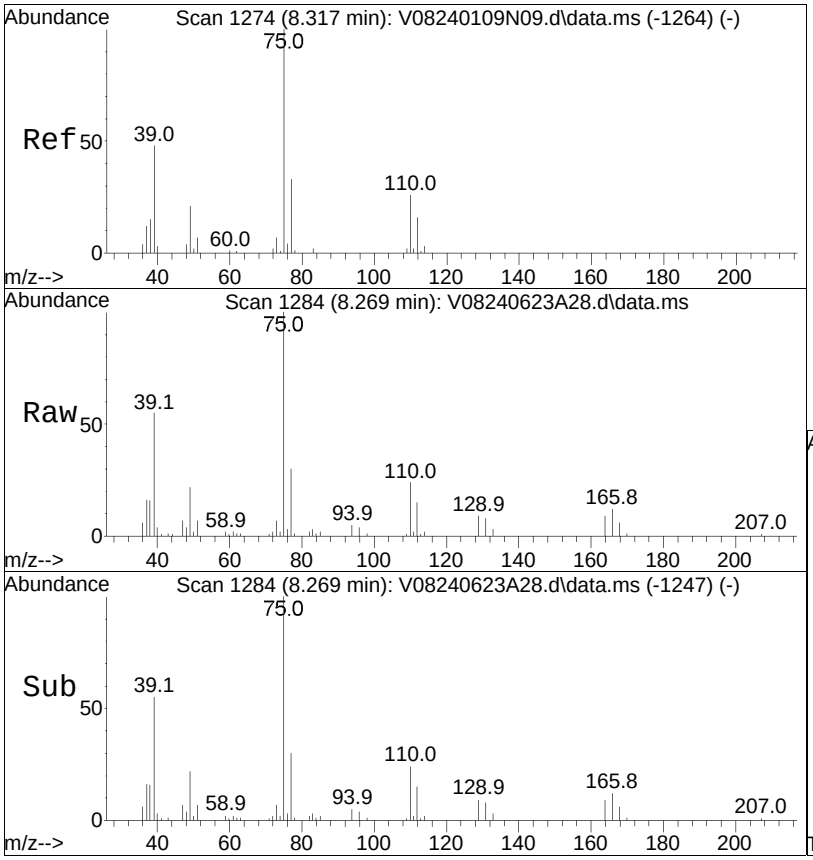


#63
Tetrachloroethene
Concen: 8.50 ug/L
RT: 8.243 min Scan# 1279
Delta R.T. -0.000 min
Lab File: V08240623A28.d
Acq: 23 Jun 2024 9:45 pm

Tgt Ion:166 Resp: 56244

Ion	Ratio	Lower	Upper
166	100		
168	48.1	28.2	68.2
94	56.9	38.4	78.4

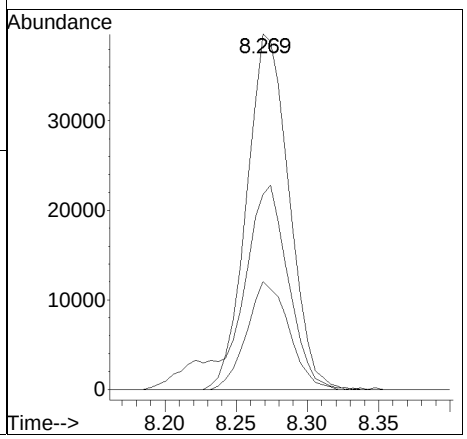


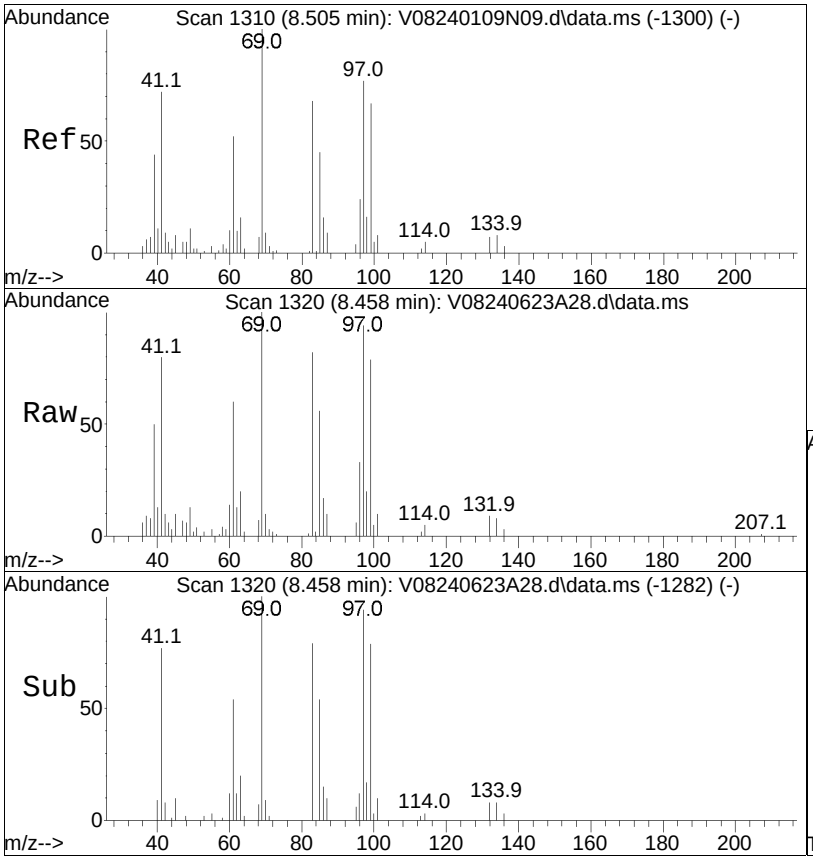


#65
trans-1,3-Dichloropropene
Concen: 8.56 ug/L
RT: 8.269 min Scan# 1284
Delta R.T. -0.005 min
Lab File: V08240623A28.d
Acq: 23 Jun 2024 9:45 pm

Tgt Ion: 75 Resp: 81893

Ion	Ratio	Lower	Upper
75	100		
77	30.2	12.4	52.4
39	65.4	42.8	82.8

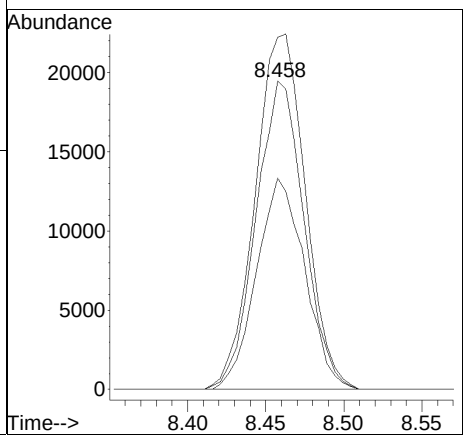


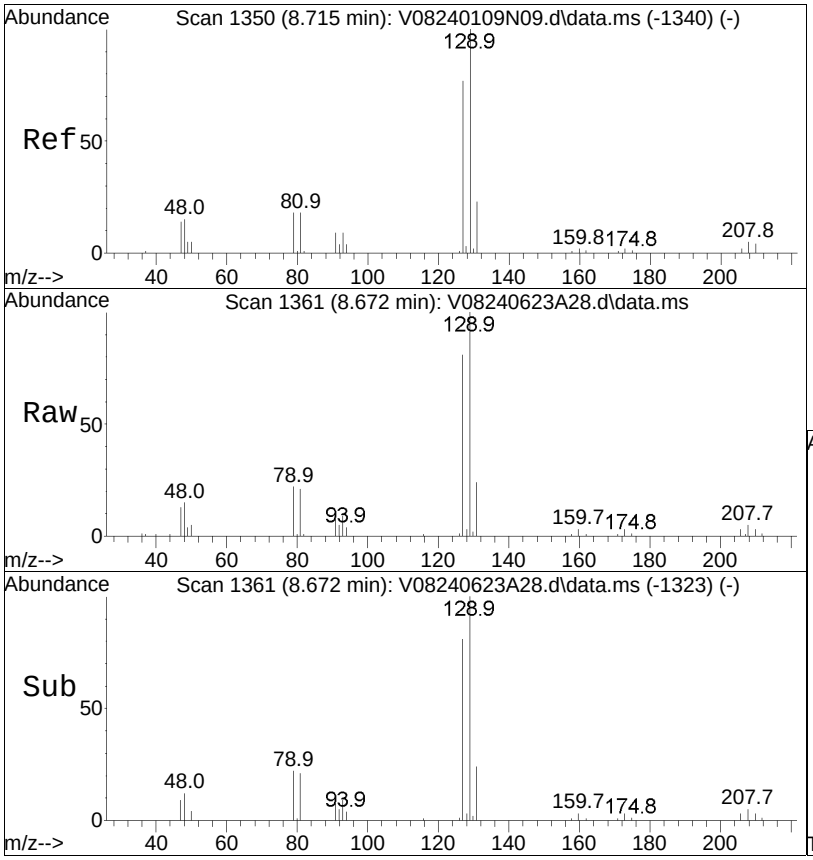


#68
1,1,2-Trichloroethane
Concen: 9.56 ug/L
RT: 8.458 min Scan# 1320
Delta R.T. -0.000 min
Lab File: V08240623A28.d
Acq: 23 Jun 2024 9:45 pm

Tgt Ion: 83 Resp: 41566

Ion	Ratio	Lower	Upper
83	100		
97	121.0	89.8	129.8
85	69.0	44.4	84.4

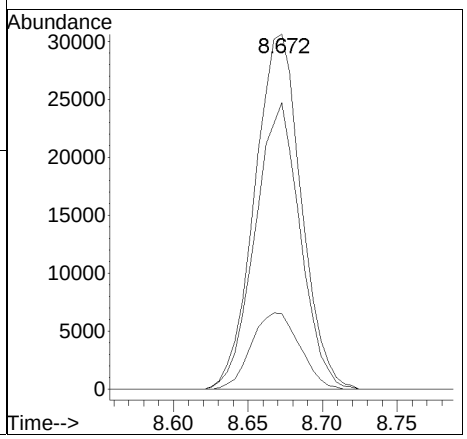


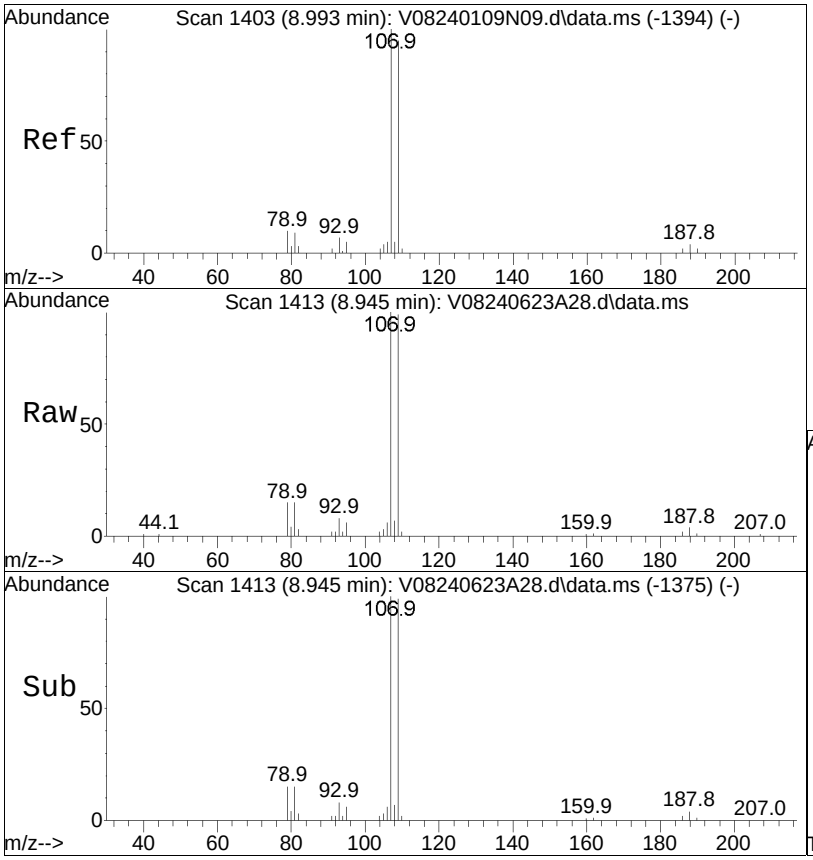


#69
Chlorodibromomethane
Concen: 9.81 ug/L
RT: 8.672 min Scan# 1361
Delta R.T. -0.001 min
Lab File: V08240623A28.d
Acq: 23 Jun 2024 9:45 pm

Tgt Ion:129 Resp: 66759

Ion	Ratio	Lower	Upper
129	100		
81	22.4	2.9	42.9
127	78.1	57.8	97.8

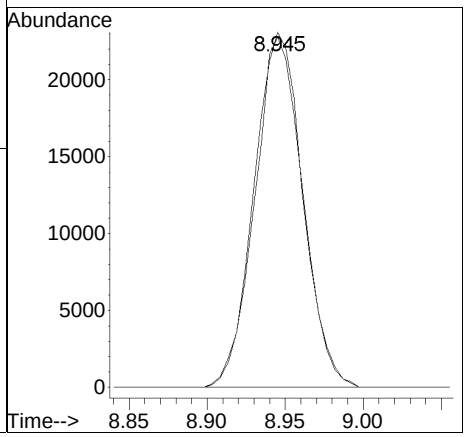


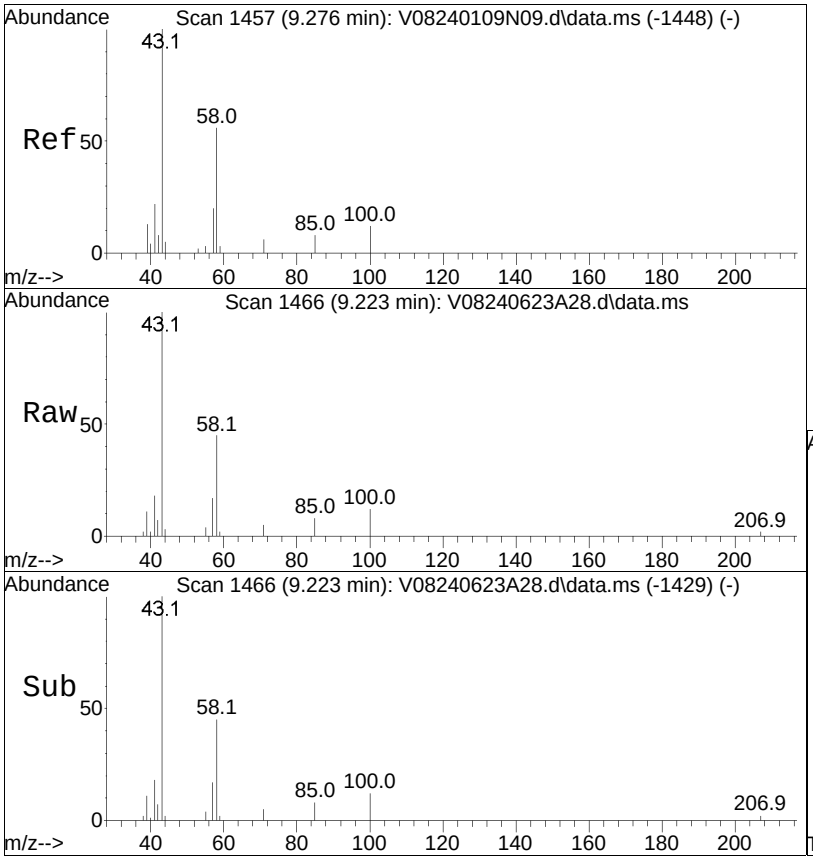


#71
1,2-Dibromoethane
Concen: 9.88 ug/L
RT: 8.945 min Scan# 1413
Delta R.T. 0.000 min
Lab File: V08240623A28.d
Acq: 23 Jun 2024 9:45 pm

Tgt Ion:107 Resp: 50243

Ion	Ratio	Lower	Upper
107	100		
109	96.8	74.3	111.5

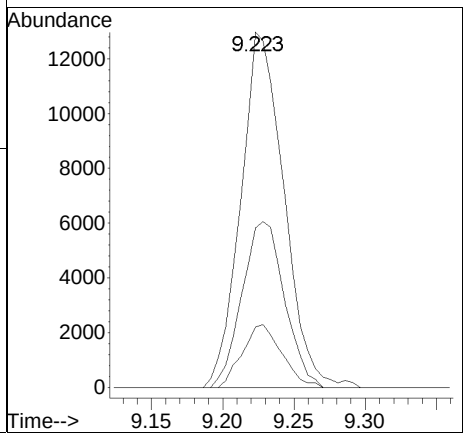


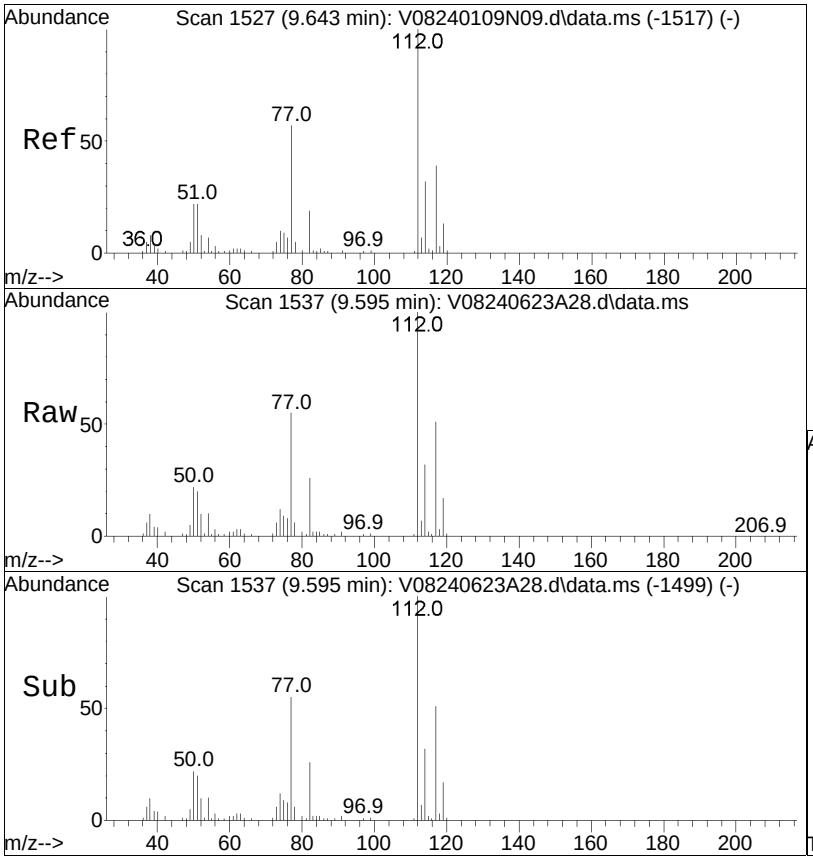


#72
2-Hexanone
Concen: 7.44 ug/L
RT: 9.223 min Scan# 1466
Delta R.T. -0.005 min
Lab File: V08240623A28.d
Acq: 23 Jun 2024 9:45 pm

Tgt Ion: 43 Resp: 27317

Ion	Ratio	Lower	Upper
43	100		
58	45.9	41.2	61.8
57	16.2	17.2	25.8#

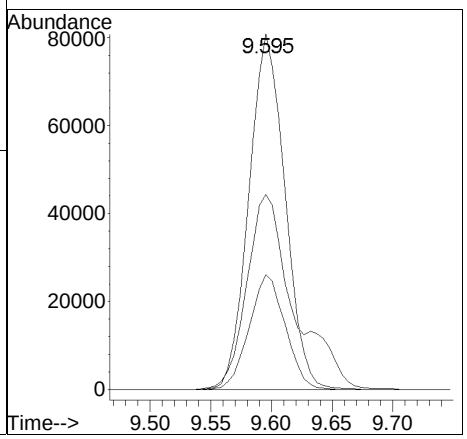


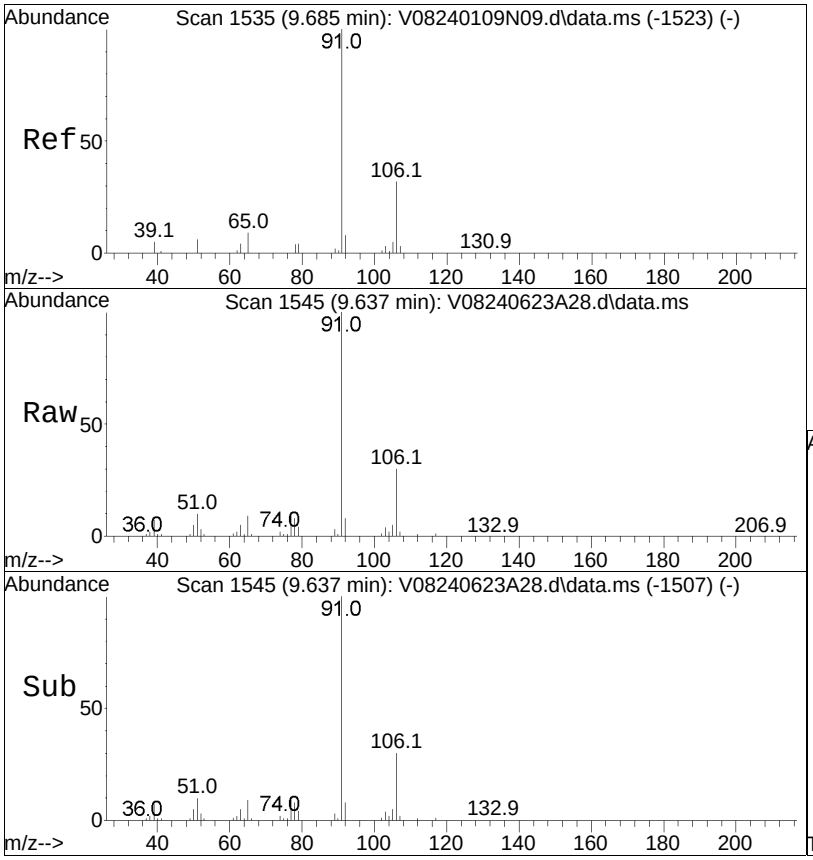


#73
Chlorobenzene
Concen: 9.39 ug/L
RT: 9.595 min Scan# 1537
Delta R.T. 0.000 min
Lab File: V08240623A28.d
Acq: 23 Jun 2024 9:45 pm

Tgt Ion:112 Resp: 166642

Ion	Ratio	Lower	Upper
112	100		
77	71.6	55.4	83.0
114	32.3	25.4	38.2

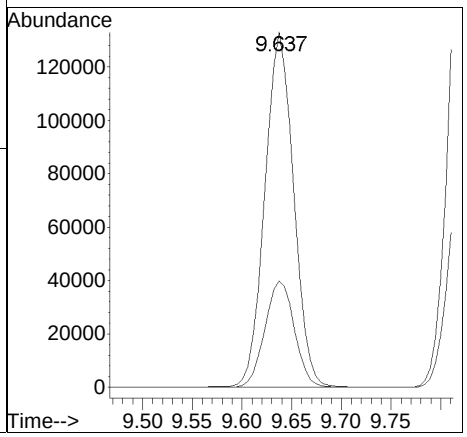


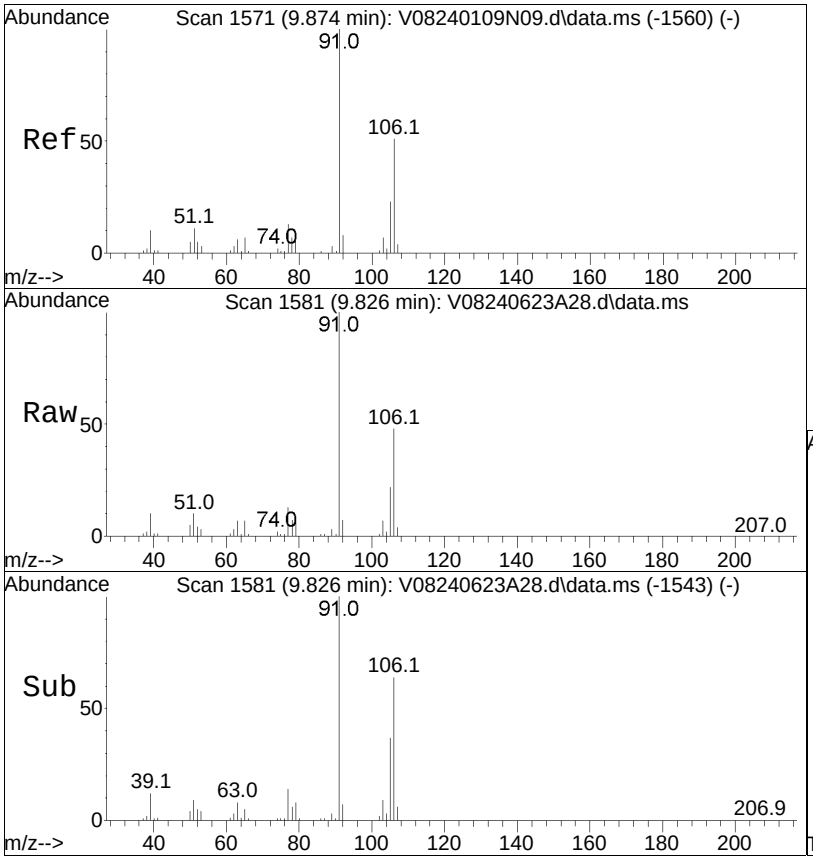


#74
Ethylbenzene
Concen: 8.86 ug/L
RT: 9.637 min Scan# 1545
Delta R.T. 0.000 min
Lab File: V08240623A28.d
Acq: 23 Jun 2024 9:45 pm

Tgt Ion: 91 Resp: 268649

Ion	Ratio	Lower	Upper
91	100		
106	30.6	24.3	36.5

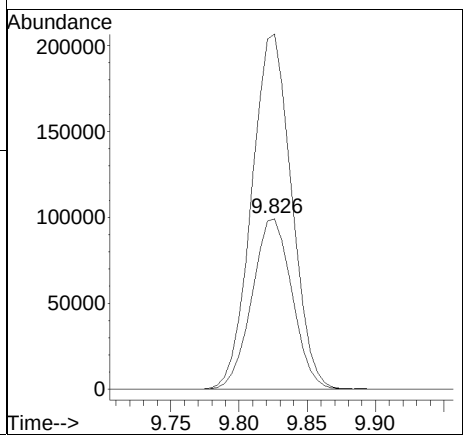


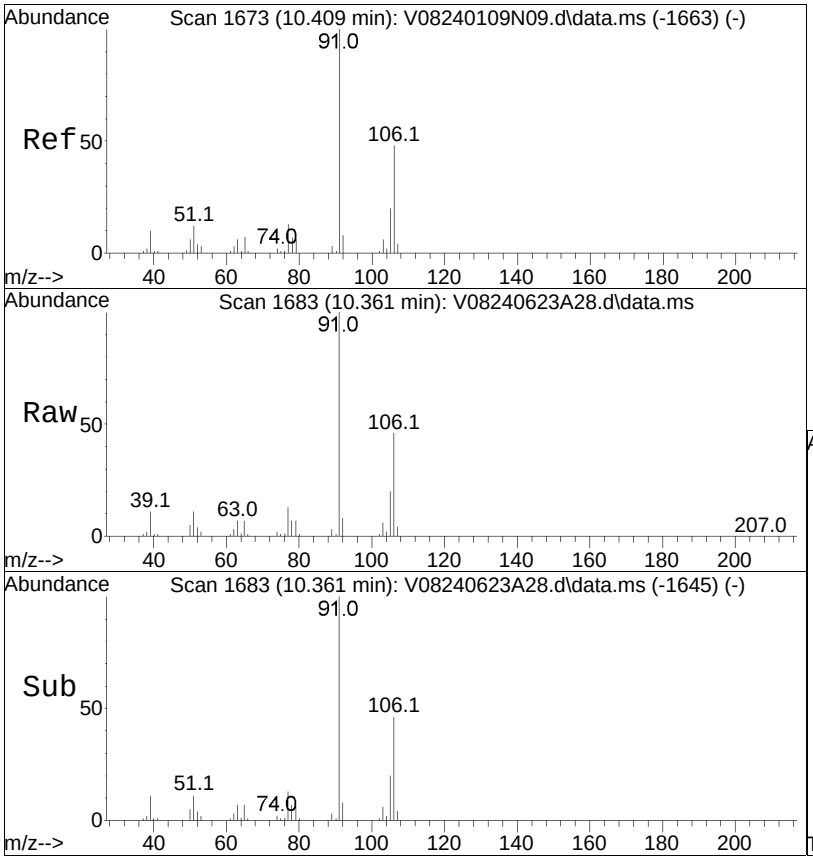


#76
p/m Xylene
Concen: 17.06 ug/L
RT: 9.826 min Scan# 1581
Delta R.T. -0.000 min
Lab File: V08240623A28.d
Acq: 23 Jun 2024 9:45 pm

Tgt Ion:106 Resp: 203008

Ion	Ratio	Lower	Upper
106	100		
91	206.9	166.4	249.6

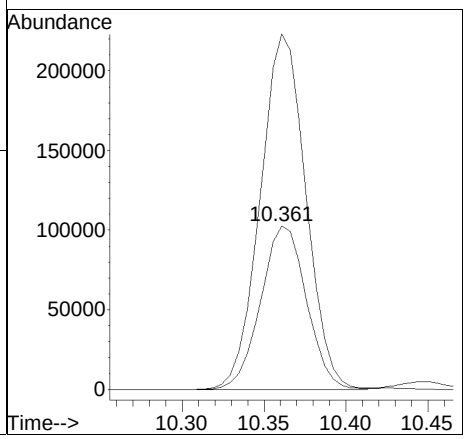


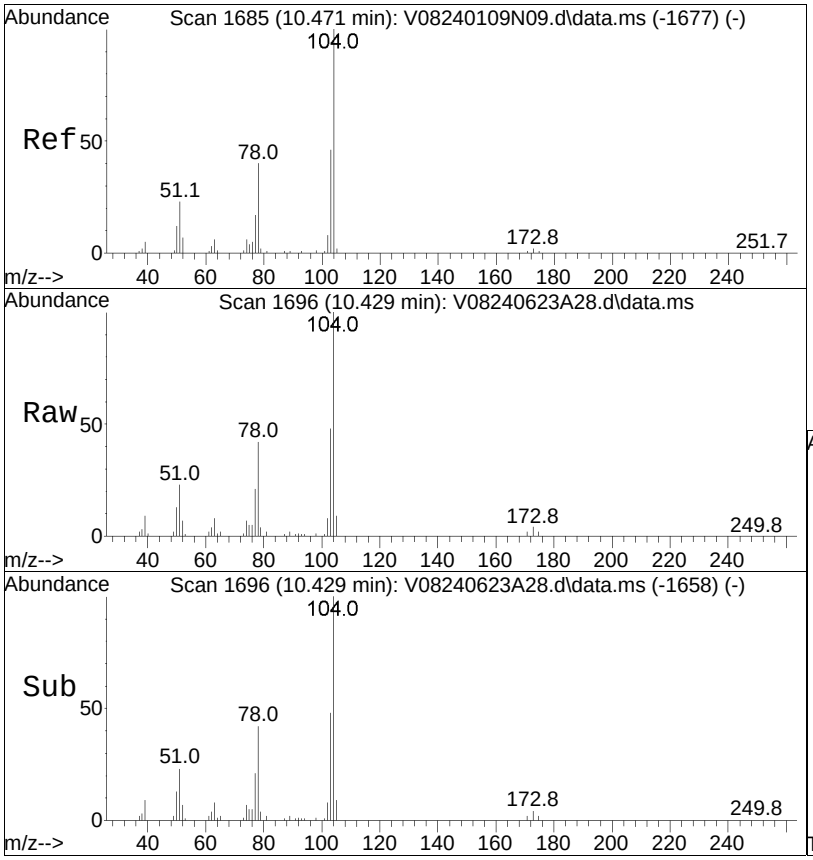


#77
o Xylene
Concen: 17.08 ug/L
RT: 10.361 min Scan# 1683
Delta R.T. -0.000 min
Lab File: V08240623A28.d
Acq: 23 Jun 2024 9:45 pm

Tgt Ion:106 Resp: 199138

Ion	Ratio	Lower	Upper
106	100		
91	216.6	182.6	273.8

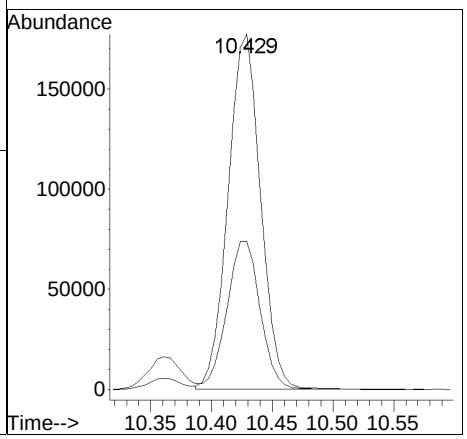


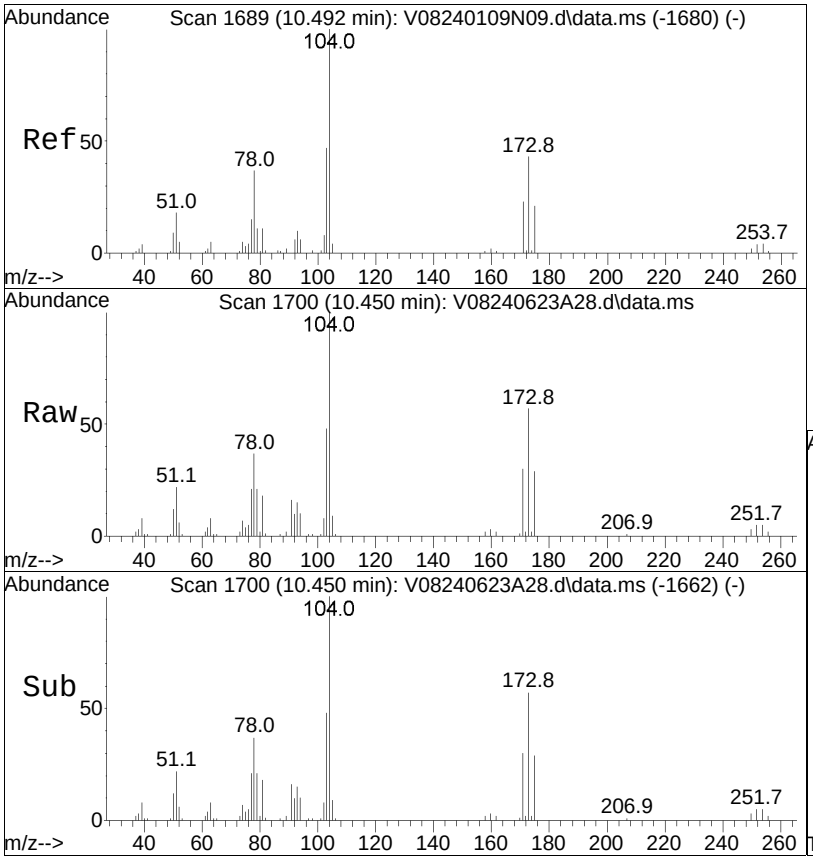


#78
Styrene
Concen: 16.84 ug/L
RT: 10.429 min Scan# 1696
Delta R.T. -0.000 min
Lab File: V08240623A28.d
Acq: 23 Jun 2024 9:45 pm

Tgt Ion:104 Resp: 330158

Ion	Ratio	Lower	Upper
104	100		
78	42.5	39.8	59.6

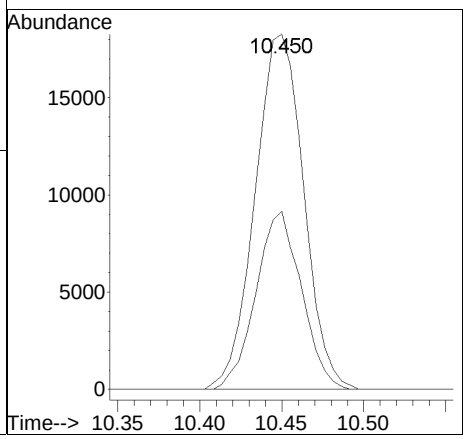


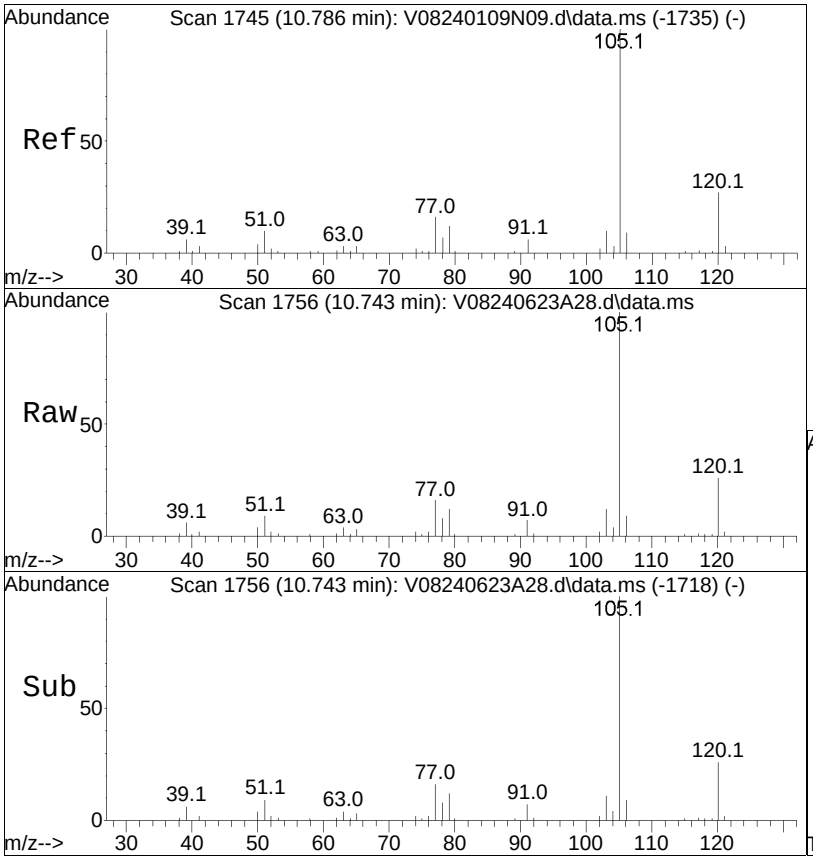


#80
Bromoform
Concen: 9.72 ug/L
RT: 10.450 min Scan# 1700
Delta R.T. -0.000 min
Lab File: V08240623A28.d
Acq: 23 Jun 2024 9:45 pm

Tgt Ion:173 Resp: 37676

Ion	Ratio	Lower	Upper
173	100		
175	46.9	31.5	71.5

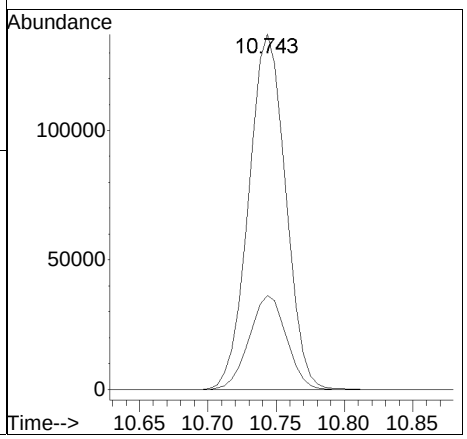


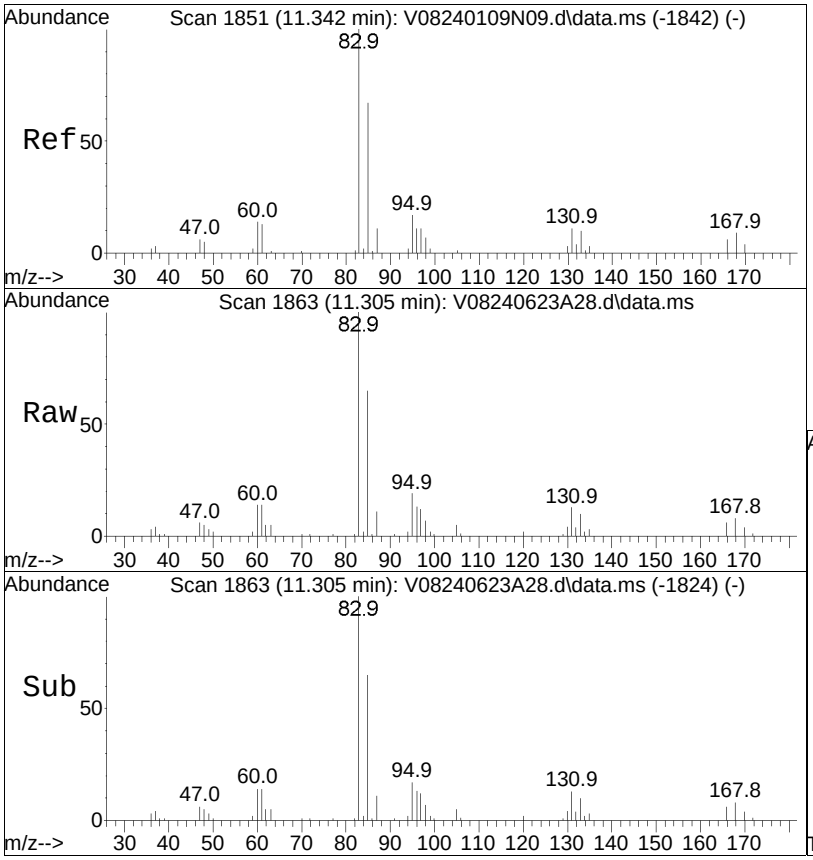


#82
Isopropylbenzene
Concen: 8.93 ug/L
RT: 10.743 min Scan# 1756
Delta R.T. -0.001 min
Lab File: V08240623A28.d
Acq: 23 Jun 2024 9:45 pm

Tgt Ion:105 Resp: 257515

Ion	Ratio	Lower	Upper
105	100		
120	26.5	4.8	44.8

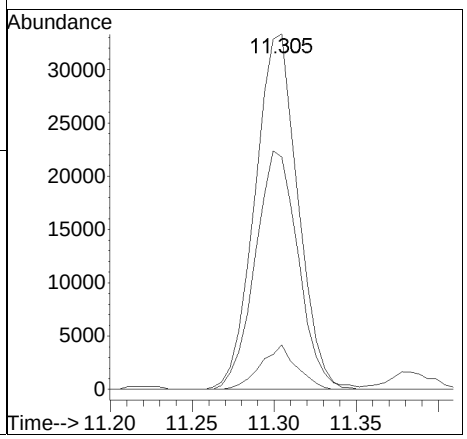


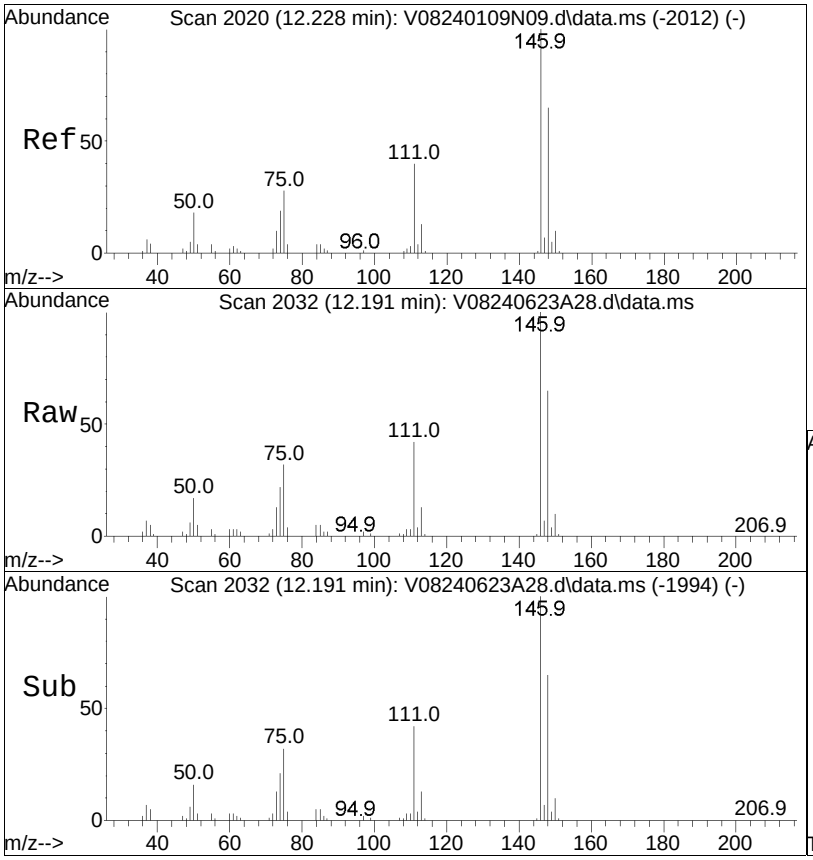


#87
1,1,2,2-Tetrachloroethane
Concen: 10.42 ug/L
RT: 11.305 min Scan# 1863
Delta R.T. 0.006 min
Lab File: V08240623A28.d
Acq: 23 Jun 2024 9:45 pm

Tgt Ion: 83 Resp: 60672

Ion	Ratio	Lower	Upper
83	100		
131	10.5	0.0	30.4
85	67.5	45.4	85.4

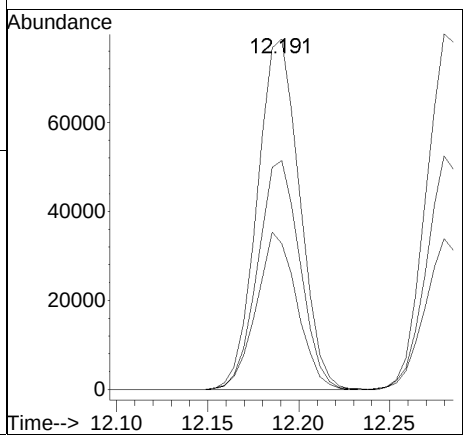


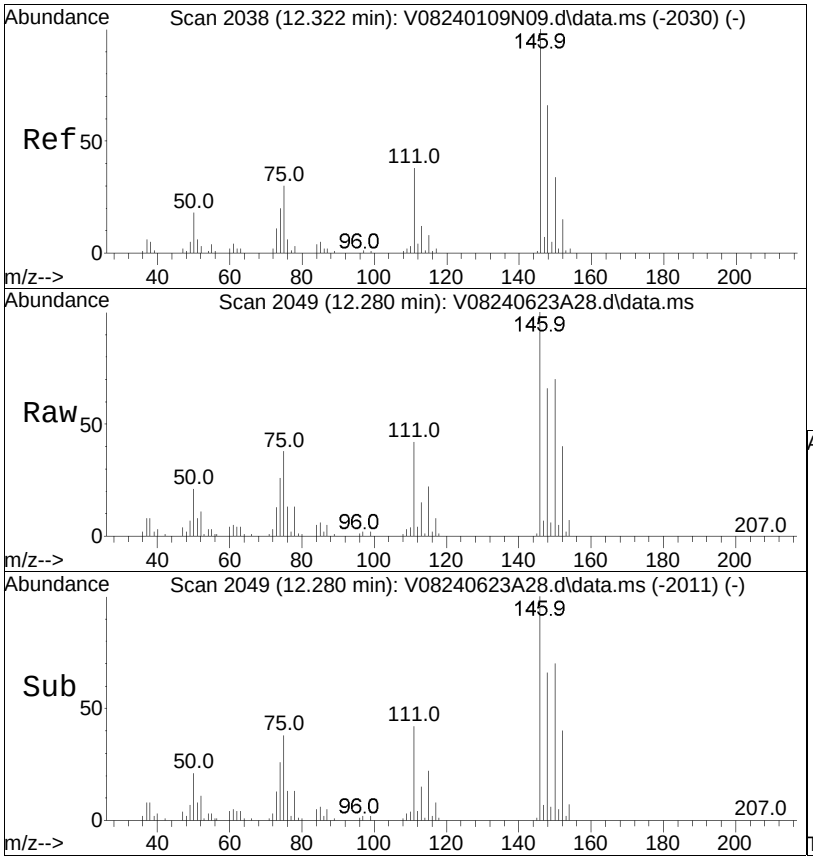


#100
1,3-Dichlorobenzene
Concen: 9.10 ug/L
RT: 12.191 min Scan# 2032
Delta R.T. -0.000 min
Lab File: V08240623A28.d
Acq: 23 Jun 2024 9:45 pm

Tgt Ion:146 Resp: 127413

Ion	Ratio	Lower	Upper
146	100		
111	42.9	27.5	57.1
148	64.7	41.9	86.9

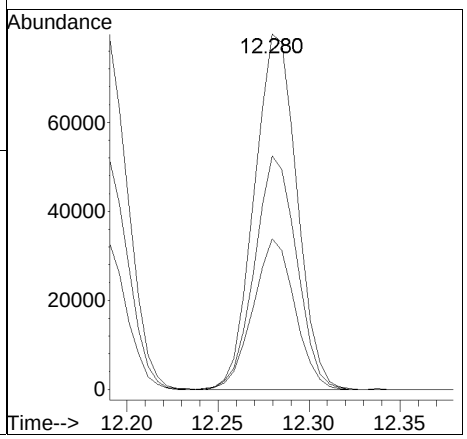


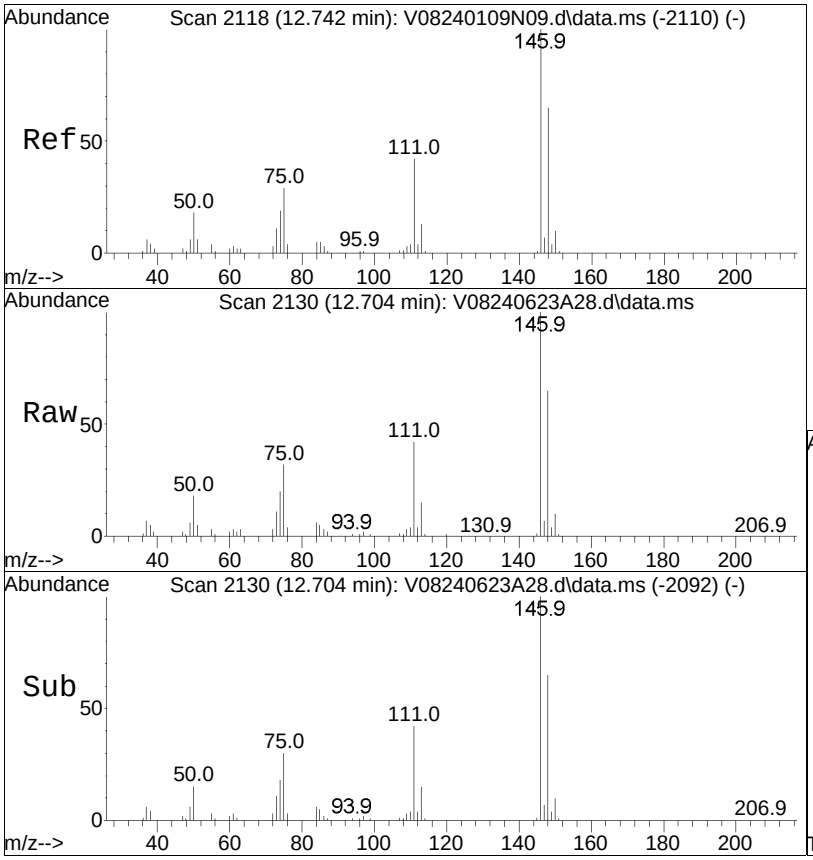


#101
1,4-Dichlorobenzene
Concen: 9.21 ug/L
RT: 12.280 min Scan# 2049
Delta R.T. -0.000 min
Lab File: V08240623A28.d
Acq: 23 Jun 2024 9:45 pm

Tgt Ion:146 Resp: 129918

Ion	Ratio	Lower	Upper
146	100		
111	41.6	32.3	48.5
148	64.6	49.9	74.9

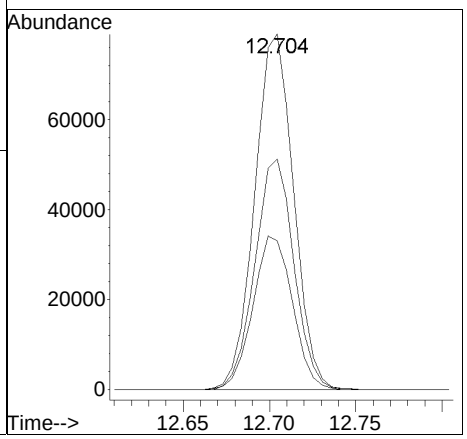


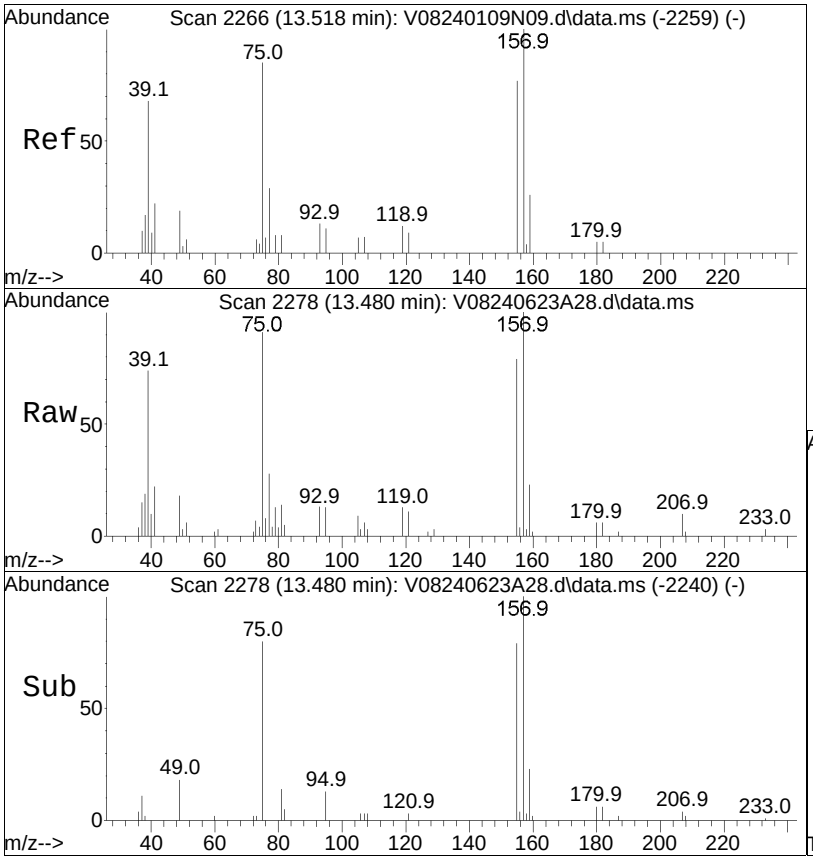


#104
1,2-Dichlorobenzene
Concen: 9.39 ug/L
RT: 12.704 min Scan# 2130
Delta R.T. 0.000 min
Lab File: V08240623A28.d
Acq: 23 Jun 2024 9:45 pm

Tgt Ion:146 Resp: 123896

Ion	Ratio	Lower	Upper
146	100		
111	43.9	28.3	58.7
148	65.1	42.3	87.8

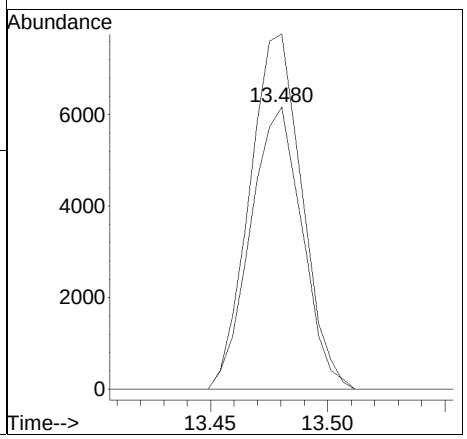


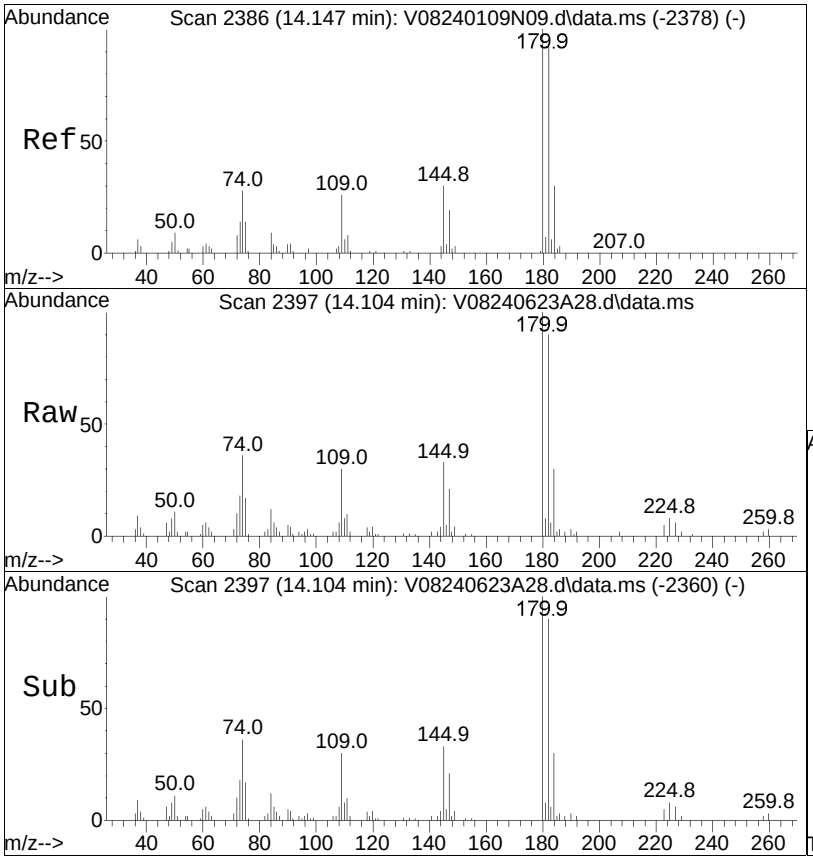


#106
1,2-Dibromo-3-chloropropane
Concen: 10.67 ug/L
RT: 13.480 min Scan# 2278
Delta R.T. 0.000 min
Lab File: V08240623A28.d
Acq: 23 Jun 2024 9:45 pm

Tgt Ion:155 Resp: 9494

Ion	Ratio	Lower	Upper
155	100		
157	126.9	94.8	142.2

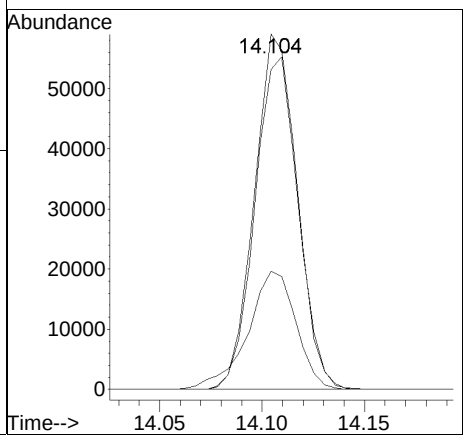


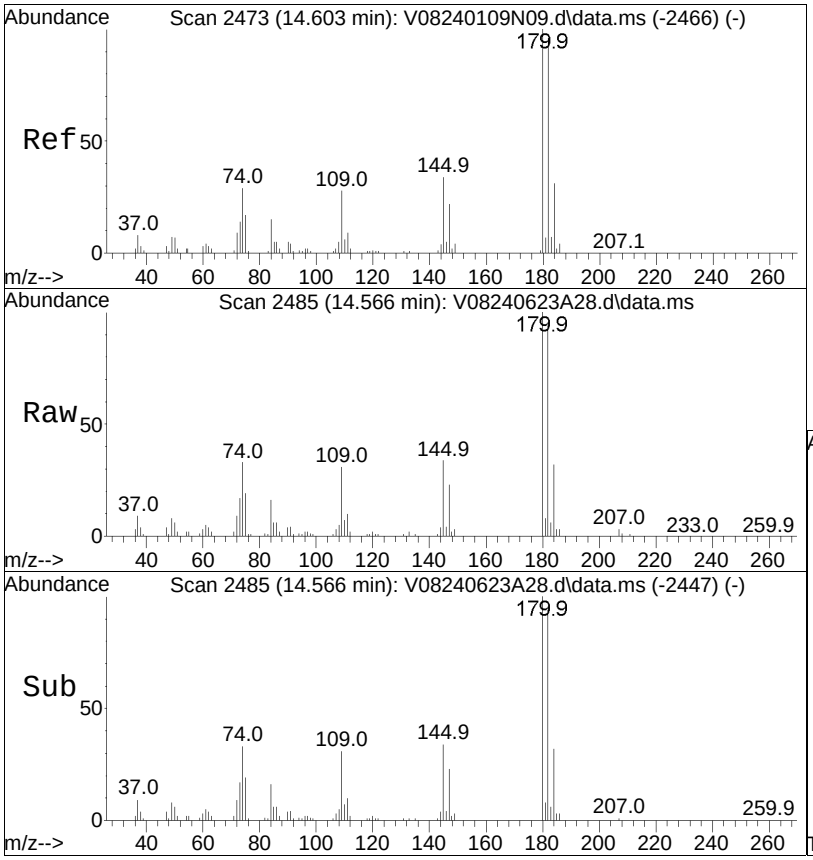


#109
1,2,4-Trichlorobenzene
Concen: 9.00 ug/L
RT: 14.104 min Scan# 2397
Delta R.T. -0.006 min
Lab File: V08240623A28.d
Acq: 23 Jun 2024 9:45 pm

Tgt Ion:180 Resp: 85587

Ion	Ratio	Lower	Upper
180	100		
182	94.9	77.3	115.9
145	37.6	28.1	42.1

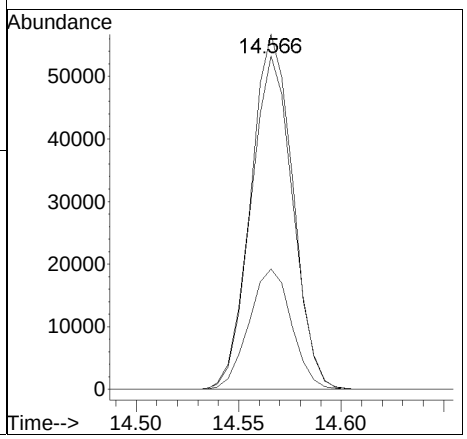




#111
1,2,3-Trichlorobenzene
Concen: 9.46 ug/L
RT: 14.566 min Scan# 2485
Delta R.T. -0.000 min
Lab File: V08240623A28.d
Acq: 23 Jun 2024 9:45 pm

Tgt Ion:180 Resp: 80987

Ion	Ratio	Lower	Upper
180	100		
182	93.8	76.4	114.6
145	34.4	26.4	39.6



Manual Integration Report

Data Path	: K:\VOA108\2024\240623A\	QMethod	: V108_240514N_8260.m
Data File	: V08240623A28.d	Operator	: VOA108:PID
Date Inj'd	: 6/23/2024 9:45 pm	Instrument	: VOA 108
Sample	: WG1938519-7,31,10,10,,A2	Quant Date	: 6/24/2024 11:05 am

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

Calculation of Volatile Organic Compounds

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

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

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

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

ALPHA ANALYTICAL LABORATORIES, INC.

Alpha WORK GROUP REPORT (wk02)

Jun 26 2024, 09:49 am

Work Group: WG1938519 for Department: 31 GC/MS - Volatiles

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

Sample	Client ID	C	Product	Matrix	Stat	UA	HOLD	DUE	PR	Location
L2434679-01	MW-3A	S	NYTCL-8260-R2	WATER	DONE	U	0703	0626	S0	Vial-B
L2434679-02	MW-6A	S	NYTCL-8260-R2	WATER	DONE	U	0702	0626	S0	Vial-B
L2434679-03	MW-6B	S	NYTCL-8260-R2	WATER	DONE	U	0702	0626	S0	Vial-B
L2434679-04	MW-6C	S	NYTCL-8260-R2	WATER	DONE	U	0702	0626	S0	Vial-B
L2434679-05	MW-7A	S	NYTCL-8260-R2	WATER	DONE	U	0702	0626	S0	Vial-B
L2434679-06	MW-7B	S	NYTCL-8260-R2	WATER	DONE	U	0702	0626	S0	Vial-B
L2434679-07	MW-7C	S	NYTCL-8260-R2	WATER	DONE	U	0702	0626	S0	Vial-B
L2434679-12	EB	S	NYTCL-8260-R2	WATER	DONE	U	0702	0626	S0	Vial-B
L2434679-13	TB	S	NYTCL-8260-R2	WATER	DONE	U	0702	0626	S0	Vial-B
WG1938519-1	MS BFB Tune Standard	S	NYTCL-8260-R2	WATER	DONE	U				
WG1938519-2	Continuing Calibrati	S	NYTCL-8260-R2	WATER	DONE	U				
WG1938519-3	Laboratory Control S	S	NYTCL-8260-R2	WATER	DONE	U				
WG1938519-4	LCS Duplicate	S	NYTCL-8260-R2	WATER	DONE	U				
WG1938519-5	Laboratory Method Bl	S	NYTCL-8260-R2	WATER	DONE	U				
WG1938519-6	Matrix Spike	S	NYTCL-8260-R2	WATER	DONE	U				
WG1938519-7	Matrix Spike Duplica	S	NYTCL-8260-R2	WATER	DONE	U				

Comments:

WG1938519-4	WG1938519-3
WG1938519-6	L2434679-03
WG1938519-7	L2434679-03

ALPHA ANALYTICAL LABORATORIES, INC.

Alpha WORK GROUP REPORT (wk02)

Jun 26 2024, 09:49 am

Work Group: WG1938990 for Department: 31 GC/MS - Volatiles

Created: 25-JUN-24 Due: Operator: mjv

Sample	Client ID	C	Product	Matrix	Stat	UA	HOLD	DUE	PR	Location
L2434393-09	TRIP BLANK	S	NYTCL-8260-R2	WATER	DONE	U	0702	0625	S0	Vial-B
L2434546-02	TWP-2	S	NYCP51-8260-G	WATER	DONE	U	0702	0626	S0	Vial-B
L2434679-08	MW-8A	S	NYTCL-8260-R2	WATER	DONE	U	0702	0626	S0	Vial-B
L2434679-09	MW-8B	S	NYTCL-8260-R2	WATER	DONE	U	0702	0626	S0	Vial-B
L2434679-10	MW-9B	S	NYTCL-8260-R2	WATER	DONE	U	0703	0626	S0	Vial-B
L2434679-11	DUP	S	NYTCL-8260-R2	WATER	DONE	U	0702	0626	S0	Vial-B
L2434679-14	MW-8B2	S	NYTCL-8260-R2	WATER	DONE	U	0702	0626	S0	Vial-B
L2434834-05	FB	S	NYTCL-8260	WATER	SENT	U	0703	0627	S0	Vial-B
L2434834-06	TB	S	NYTCL-8260	WATER	SENT	U	0703	0627	S0	Vial-B
L2435023-17	FB_06202024	S	NYTCL-8260	WATER	SEC	U	0704	0627	S0	Vial-B
L2435023-30	TB_06202024	S	NYTCL-8260	WATER	SEC	U	0704	0627	S0	Vial-B
L2435060-08	RISFB01_062024	S	NYTCL-8260	WATER	SEC	U	0704	0627	S0	Vial-B
L2435060-09	RITB01_062024	S	NYTCL-8260	WATER	SEC	U	0704	0627	S0	Vial-B
L2435220-01	EB-06212024	S	NYTCL-8260-R2	WATER	SEC	U	0705	0628	3E	Vial-B
L2435220-02	TRIP BLANK	S	NYTCL-8260-R2	WATER	SEC	U	0705	0628	3E	Vial-B
L2435223-07	TW-1	S	NYTCL-8260	WATER	SEC	U	0705	0628	S0	Vial-B
L2435399-34	TB_06212024	S	NYTCL-8260	WATER	SEC	U	0704	0628	S0	Vial-B
L2435415-02	TW-2	S	NYTCL-8260	WATER	SEC	U	0704	0628	S0	Vial-B
WG1938990-1	MS BFB Tune Standard	S	NYTCL-8260	WATER	DONE	U				
WG1938990-1	MS BFB Tune Standard	S	NYTCL-8260-R2	WATER	DONE	U				
WG1938990-1	MS BFB Tune Standard	S	NYCP51-8260-G	WATER	DACQ	U				
WG1938990-2	Continuing Calibrati	S	NYTCL-8260	WATER	DONE	U				
WG1938990-2	Continuing Calibrati	S	NYTCL-8260-R2	WATER	DONE	U				
WG1938990-2	Continuing Calibrati	S	NYCP51-8260-G	WATER	DACQ	U				
WG1938990-3	Laboratory Control S	S	NYTCL-8260	WATER	DONE	U				
WG1938990-3	Laboratory Control S	S	NYTCL-8260-R2	WATER	DACQ	U				
WG1938990-3	Laboratory Control S	S	NYCP51-8260-G	WATER	DACQ	U				
WG1938990-4	LCS Duplicate	S	NYCP51-8260-G	WATER	DACQ	U				
WG1938990-4	LCS Duplicate	S	NYTCL-8260-R2	WATER	DACQ	U				
WG1938990-4	LCS Duplicate	S	NYTCL-8260	WATER	DONE	U				
WG1938990-5	Laboratory Method Bl	S	NYTCL-8260	WATER	DONE	U				
WG1938990-5	Laboratory Method Bl	S	NYCP51-8260-G	WATER	DACQ	U				
WG1938990-5	Laboratory Method Bl	S	NYTCL-8260-R2	WATER	DACQ	U				

Comments:

WG1938990-4 WG1938990-3

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

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

Method
GC 8260_RTX_VMS
Autosampler: 8260
Concentrator: 8260

QC: ____ Seq:

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

Method
GC: 8260-ATOMX
Autosampler: 8260
Concentrator: 8260

Inst: VOA108
Initials: TMS
Date **05/14/24**
Run **N**

BFB: V10391
IS/SS: V10405
ICAL: V10379C,V10416
ICV: V10412,V10376,V10378,V10411,V10400,V10413

QC: Seq:

Vial	DATA FILE	SAMPLE	pH<2
1	V08240514NBF1	BFB TUNE	
1	V08240514N01	BLK	
2	V08240514N02	BLK	
3	V08240514N03	I8260STD0.19PPB	
4	V08240514N04	I8260STD0.19PPB	
5	V08240514N05	I8260STD0.5PPB	
6	V08240514N06	I8260STD0.5PPB	
7	V08240514N07	I8260STD2PPB	
8	V08240514N08	I8260STD2PPB	
9	V08240514N09	I8260STD10PPB	
10	V08240514N10	I8260STD30PPB	
11	V08240514N11	I8260STD80PPB	
12	V08240514N12	I8260STD120PPB	
13	V08240514N13	I8260STD200PPB	
14	V08240514N14	BLK	
15	V08240514N15	BLK	
16	V08240514N16	BLK	
17	V08240514N17	BLK	
18	V08240514N18	C8260STD10PPB	
19	V08240514N19	C8260STD10PPB	
20	V08240514N20	BLK	
21	V08240514N21	BLK	
22	V08240514N22	METHOD BLK	
23	V08240514N23	MDL 0.19PPB	
24	V08240514N24	MDL 0.19PPB	
25	V08240514N25	MDL 0.5PPB	
26	V08240514N26	MDL 0.5PPB	
27	V08240514N27	MDL 2PPB	
28	V08240514N28	MDL 2PPB	
29	V08240514N29	BLK	

Inst: VOA108 BFB: V10453
Initials: PID IS/SS: V10499
Date **06/23/24** ICAL: V10494A,V10502
Run **A**

Method
GC: 8260-ATOMX
Autosampler: 8260
Concentrator: 8260

QC: Seq:

Vial	DATA FILE	SAMPLE			pH<2
1	V08240623ABF1	BFB TUNE 11:15			
1	V08240623A01	8260 CCAL LCS			
2	V08240623A02	8260 CCAL LCSD			
3	V08240623A03	8260 CCAL			
4	V08240623A04	BLK			
5	V08240623A05	BLK			
6	V08240623A06	METHOD BLK			
7	V08240623A07	L2434612-21,31,10,10,,A	PASHORT+NBB		pH<2
8	V08240623A08	L2434612-27,31,10,10,,A	PASHORT+NBB		pH<2
9	V08240623A09	L2434612-28,31,10,10,,A	PASHORT+NBB		pH<2
10	V08240623A10	L2434612-29,31,10,10,,A	PASHORT+NBB		pH<2
11	V08240623A11	I2434612-22D,31,2.0,10,,a	PASHORT+NBB		pH<2
12	V08240623A12	L2434612-23,31,10,10,,A	PASHORT+NBB		pH<2
13	V08240623A13	L2434612-24,31,10,10,,A	PASHORT+NBB		pH<2
14	V08240623A14	L2434612-25,31,10,10,,A	PASHORT+NBB		pH<2
15	V08240623A15	L2434612-26,31,10,10,,A	PASHORT+NBB		pH<2
16	V08240623A16	L2434612-30,31,10,10,,A	PASHORT+NBB		pH<2
17	V08240623A17	L2434612-31,31,10,10,,A	PASHORT+NBB	TB	pH<2
18	V08240623A18	L2434679-12,31,10,10,,A	NY/R2		pH<2
19	V08240623A19	L2434679-13,31,10,10,,A	NY/R2	TB	pH<2
20	V08240623A20	L2434679-01,31,10,10,,A	NY/R2		pH<2
21	V08240623A21	L2434679-02,31,10,10,,A	NY/R2		pH<2
22	V08240623A22	L2434679-03,31,10,10,,A	NY/R2		pH<2
23	V08240623A23	L2434679-04,31,10,10,,A	NY/R2		pH<2
24	V08240623A24	L2434679-05,31,10,10,,A	NY/R2		pH<2
25	V08240623A25	L2434679-06,31,10,10,,A	NY/R2		pH<2
26	V08240623A26	L2434679-07,31,10,10,,A	NY/R2		pH<2
27	V08240623A27	L2434679-03MS,31,10,10,,A1	NY/R2		pH<2
28	V08240623A28	L2434679-03MSD,31,10,10,,A2	NY/R2		pH<2
29	V08240623A29	HSTD			
30	V08240623A30	BLK			
31	V08240623A31	BLK			

Inst: Gonzo BFB: V10453 Method GC 8260_RTX_VMS

Initials: PID IS/SS: V10477 Autosampler: 8260water

Date: **06/24/24** ICAL: V10494A,V10502 Concentrator: 8260

Run: **A** QC: ____ Seq: ____

Vial	DATA FILE	SAMPLE			pH<2
1	VG240624ABF1	BFB TUNE 07:47			
1	VG240624A01	8260 CCAL LCS			
2	VG240624A02	8260 CCAL LCSD			
3	VG240624A03	8260 CCAL			
4	VG240624A04	BLK			
5	VG240624A05	METHOD BLK			
6	VG240624A06	L2434393-09,31,10,10,,A	NY/R2	TB	pH<2
7	VG240624A07	L2435162-01,31,10,10,,A,R3C	PA8260CURVE		pH<2
8	VG240624A08	L2434679-08,31,10,10,,A	NY/R2		pH<2
9	VG240624A09	L2434679-09,31,10,10,,A	NY/R2		pH<2
10	VG240624A10	L2434679-10,31,10,10,,A	NY/R2		pH<2
11	VG240624A11	L2434679-11,31,10,10,,A	NY/R2		pH<2
12	VG240624A12	L2434679-14,31,10,10,,A	NY/R2		pH<2
13	VG240624A13	L2434834-05,31,10,10,,A	NYTCL	FB	pH<2
14	VG240624A14	L2434834-06,31,10,10,,A	NYTCL	TB	pH<2
15	VG240624A15	L2435023-17,31,10,10,,B	NYTCL/10	FB	pH<2
16	VG240624A16	L2435023-30,31,10,10,,A	NYTCL/10	TB	pH<2
17	VG240624A17	L2435060-08,31,10,10,,L	NYCURVE	FB	pH<2
18	VG240624A18	L2435060-09,31,10,10,,A	NYCURVE	TB	pH<2
19	VG240624A19	L2435220-01,31,10,10,,A,R3E	NY/R2		pH<2
20	VG240624A20	L2435220-02,31,10,10,,A,R3E	NY/R2	TB	pH<2
21	VG240624A21	L2435223-07,31,10,10,,A	NYTCL		pH<2
22	VG240624A22	L2435399-34,31,10,10,,A	NYTCL	TB	pH<2
23	VG240624A23	L2434546-02,31,10,10,,C	NYSTARS		pH>2
24	VG240624A24	BLK			
25	VG240624A25	L2435415-02,31,10,10,,A	NYTCL/10		pH<2
26	VG240624A26	l2435415-01D,31,0.02,10,,a	NYTCL/10		pH<2
27	VG240624A27	HSTD			
28	VG240624A28	BLK			
29	VG240624A29	BLK			

Semivolatiles Data- Method 8270

Semivolatiles QC Summary

Laboratory Control Sample Summary
Form 3
Semivolatiles

Client : Alpha Geoscience **Lab Number** : L2434679
Project Name : RANCO MINE **Project Number** : 12123
Matrix (Level) : WATER (LOW)
LCS Sample ID : WG1938279-2 **Analysis Date** : 06/24/24 17:00 **File ID** : 938279-2
LCSD Sample ID : WG1938279-3 **Analysis Date** : 06/24/24 17:22 **File ID** : 938279-3

	Laboratory Control Sample			Laboratory Control Duplicate					
Parameter	True (ug/l)	Found (ug/l)	%R	True (ug/l)	Found (ug/l)	%R	RPD	Recovery Limits	RPD Limit
Bis(2-chloroethyl)ether	18	11.	61	18	10.	55	10	40-140	30
3,3'-Dichlorobenzidine	18	11.	63	18	11.	60	5	40-140	30
2,4-Dinitrotoluene	18	12.	67	18	11.	62	8	48-143	30
2,6-Dinitrotoluene	18	11.	63	18	11.	60	5	40-140	30
4-Chlorophenyl phenyl ether	18	12.	64	18	11.	62	3	40-140	30
4-Bromophenyl phenyl ether	18	11.	63	18	11.	60	5	40-140	30
Bis(2-chloroisopropyl)ether	18	10.	56	18	10.	55	2	40-140	30
Bis(2-chloroethoxy)methane	18	11.	62	18	11.	58	7	40-140	30
Hexachlorocyclopentadiene	18	9.7	53	18	9.3	51	4	40-140	30
Isophorone	18	11.	62	18	10.	58	7	40-140	30
Nitrobenzene	18	11.	61	18	11.	59	3	40-140	30
NDPA/DPA	18	12.	65	18	11.	62	5	40-140	30
n-Nitrosodi-n-propylamine	18	11.	58	18	10.	58	0	29-132	30
Bis(2-ethylhexyl)phthalate	18	13.	70	18	12.	63	11	40-140	30
Butyl benzyl phthalate	18	12.	68	18	11.	62	9	40-140	30
Di-n-butylphthalate	18	12.	65	18	11.	62	5	40-140	30
Di-n-octylphthalate	18	13.	70	18	11.	62	12	40-140	30
Diethyl phthalate	18	11.	62	18	11.	59	5	40-140	30
Dimethyl phthalate	18	11.	60	18	10.	58	3	40-140	30
Biphenyl	18	10.	56	18	10.	55	2	40-140	30
4-Chloroaniline	18	10.	58	18	11.	60	3	40-140	30
2-Nitroaniline	18	12.	64	18	11.	59	8	52-143	30
3-Nitroaniline	18	11.	63	18	11.	61	3	25-145	30
4-Nitroaniline	18	11.	59	18	11.	61	3	51-143	30
Dibenzofuran	18	12.	64	18	11.	60	6	40-140	30
1,2,4,5-Tetrachlorobenzene	18	10.	57	18	9.9	54	5	2-134	30

Laboratory Control Sample Summary
Form 3
Semivolatiles

Client : Alpha Geoscience **Lab Number** : L2434679
Project Name : RANCO MINE **Project Number** : 12123
Matrix (Level) : WATER (LOW)
LCS Sample ID : WG1938279-2 **Analysis Date** : 06/24/24 17:00 **File ID** : 938279-2
LCSD Sample ID : WG1938279-3 **Analysis Date** : 06/24/24 17:22 **File ID** : 938279-3

	Laboratory Control Sample			Laboratory Control Duplicate					
Parameter	True (ug/l)	Found (ug/l)	%R	True (ug/l)	Found (ug/l)	%R	RPD	Recovery Limits	RPD Limit
Acetophenone	18	10.	58	18	10.	56	4	39-129	30
2,4,6-Trichlorophenol	18	12.	65	18	11.	60	8	30-130	30
p-Chloro-m-cresol	18	12.	68	18	11.	63	8	23-97	30
2-Chlorophenol	18	12.	65	18	11.	59	10	27-123	30
2,4-Dichlorophenol	18	12.	66	18	11.	62	6	30-130	30
2,4-Dimethylphenol	18	10.	55	18	10.	56	2	30-130	30
2-Nitrophenol	18	11.	59	18	11.	62	5	30-130	30
4-Nitrophenol	18	12.	63	18	11.	59	7	10-80	30
2,4-Dinitrophenol	18	11.	59	18	9.8	54	9	20-130	30
4,6-Dinitro-o-cresol	18	12.	66	18	11.	62	6	20-164	30
Phenol	18	9.6	53	18	9.2	51	4	12-110	30
2-Methylphenol	18	11.	61	18	11.	59	3	30-130	30
3-Methylphenol/4-Methylphenol	18	12.	65	18	11.	60	8	30-130	30
2,4,5-Trichlorophenol	18	13.	69	18	12.	68	1	30-130	30
Carbazole	18	12.	68	18	11.	63	8	55-144	30
Atrazine	18	10.	58	18	10.	55	5	40-140	30
Benzaldehyde	18	10.	57	18	9.9	54	5	40-140	30
Caprolactam	18	5.5	30	18	5.2	28	7	10-130	30
2,3,4,6-Tetrachlorophenol	18	13.	71	18	12.	66	7	40-140	30

Laboratory Control Sample Summary
Form 3
Semivolatiles

Client : Alpha Geoscience **Lab Number** : L2434679
Project Name : RANCO MINE **Project Number** : 12123
Matrix (Level) : WATER (LOW)
LCS Sample ID : WG1938723-2 **Analysis Date** : 06/25/24 10:40 **File ID** : 938723-2
LCSD Sample ID : WG1938723-3 **Analysis Date** : 06/25/24 11:03 **File ID** : 938723-3

	Laboratory Control Sample			Laboratory Control Duplicate					
Parameter	True (ug/l)	Found (ug/l)	%R	True (ug/l)	Found (ug/l)	%R	RPD	Recovery Limits	RPD Limit
Bis(2-chloroethyl)ether	18	9.4	52	18	10.	58	11	40-140	30
3,3'-Dichlorobenzidine	18	9.5	52	18	10.	55	6	40-140	30
2,4-Dinitrotoluene	18	10.	56	18	12.	68	19	48-143	30
2,6-Dinitrotoluene	18	10.	56	18	11.	63	12	40-140	30
4-Chlorophenyl phenyl ether	18	9.5	52	18	11.	62	18	40-140	30
4-Bromophenyl phenyl ether	18	9.6	53	18	11.	62	16	40-140	30
Bis(2-chloroisopropyl)ether	18	8.8	49	18	11.	58	17	40-140	30
Bis(2-chloroethoxy)methane	18	9.4	52	18	11.	60	14	40-140	30
Hexachlorocyclopentadiene	18	7.6	42	18	9.1	50	17	40-140	30
Isophorone	18	9.5	52	18	11.	61	16	40-140	30
Nitrobenzene	18	9.7	54	18	11.	60	11	40-140	30
NDPA/DPA	18	9.8	54	18	12.	64	17	40-140	30
n-Nitrosodi-n-propylamine	18	9.5	52	18	11.	62	18	29-132	30
Bis(2-ethylhexyl)phthalate	18	11.	60	18	12.	65	8	40-140	30
Butyl benzyl phthalate	18	11.	60	18	12.	65	8	40-140	30
Di-n-butylphthalate	18	10.	58	18	12.	64	10	40-140	30
Di-n-octylphthalate	18	11.	60	18	12.	65	8	40-140	30
Diethyl phthalate	18	9.9	55	18	11.	63	14	40-140	30
Dimethyl phthalate	18	10.	55	18	12.	64	15	40-140	30
Biphenyl	18	9.0	49	18	11.	59	19	40-140	30
4-Chloroaniline	18	11.	59	18	11.	60	2	40-140	30
2-Nitroaniline	18	11.	60	18	12.	66	10	52-143	30
3-Nitroaniline	18	10.	56	18	12.	64	13	25-145	30
4-Nitroaniline	18	9.9	54	18	11.	61	12	51-143	30
Dibenzofuran	18	9.4	52	18	11.	62	18	40-140	30
1,2,4,5-Tetrachlorobenzene	18	9.1	50	18	11.	60	18	2-134	30

Laboratory Control Sample Summary
Form 3
Semivolatiles

Client : Alpha Geoscience **Lab Number** : L2434679
Project Name : RANCO MINE **Project Number** : 12123
Matrix (Level) : WATER (LOW)
LCS Sample ID : WG1938723-2 **Analysis Date** : 06/25/24 10:40 **File ID** : 938723-2
LCSD Sample ID : WG1938723-3 **Analysis Date** : 06/25/24 11:03 **File ID** : 938723-3

	Laboratory Control Sample			Laboratory Control Duplicate					
Parameter	True (ug/l)	Found (ug/l)	%R	True (ug/l)	Found (ug/l)	%R	RPD	Recovery Limits	RPD Limit
Acetophenone	18	8.9	49	18	10.	58	17	39-129	30
2,4,6-Trichlorophenol	18	10.	58	18	12.	66	13	30-130	30
p-Chloro-m-cresol	18	11.	58	18	13.	69	17	23-97	30
2-Chlorophenol	18	9.9	55	18	11.	62	12	27-123	30
2,4-Dichlorophenol	18	10.	58	18	12.	65	11	30-130	30
2,4-Dimethylphenol	18	8.6	47	18	9.8	54	14	30-130	30
2-Nitrophenol	18	8.7	48	18	11.	61	24	30-130	30
4-Nitrophenol	18	9.2	51	18	11.	59	15	10-80	30
2,4-Dinitrophenol	18	8.8	48	18	11.	59	21	20-130	30
4,6-Dinitro-o-cresol	18	10.	56	18	12.	65	15	20-164	30
Phenol	18	6.6	36	18	7.5	41	13	12-110	30
2-Methylphenol	18	9.1	50	18	11.	60	18	30-130	30
3-Methylphenol/4-Methylphenol	18	9.3	51	18	11.	60	16	30-130	30
2,4,5-Trichlorophenol	18	11.	63	18	13.	71	12	30-130	30
Carbazole	18	10.	58	18	12.	64	10	55-144	30
Atrazine	18	9.8	54	18	11.	60	11	40-140	30
Benzaldehyde	18	8.8	48	18	10.	56	15	40-140	30
Caprolactam	18	4.9	27	18	5.9	32	17	10-130	30
2,3,4,6-Tetrachlorophenol	18	10.	58	18	12.	69	17	40-140	30

Matrix Spike Sample Summary
Form 3
Semivolatiles

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Client Sample ID	: MW-6B	**Matrix (Level)**	: WATER (LOW)
Lab Sample ID	: L2434679-03	**Analysis Date**	: 06/24/24 19:59
Matrix Spike	: WG1938279-4	**MS Analysis Date**	: 06/24/24 19:14
Matrix Spike Dup	: WG1938279-5	**MSD Analysis Date**	: 06/24/24 19:37

		Matrix Spike Sample			Matrix Spike Duplicate					
Parameter	Sample Conc. (ug/l)	Spike Added (ug/l)	Spike Conc. (ug/l)	%R	Spike Added (ug/l)	Spike Conc. (ug/l)	%R	RPD	Recovery Limits	RPD Limit
Bis(2-chloroethyl)ether	ND	18.2	11.	61	18.2	10.	55	10	40-140	30
3,3'-Dichlorobenzidine	ND	18.2	11.	61	18.2	10.	55	10	40-140	30
2,4-Dinitrotoluene	ND	18.2	12.	66	18.2	11.	61	9	48-143	30
2,6-Dinitrotoluene	ND	18.2	12.	66	18.2	10.	55	18	40-140	30
4-Chlorophenyl phenyl ether	ND	18.2	12.	66	18.2	11.	61	9	40-140	30
4-Bromophenyl phenyl ether	ND	18.2	12.	66	18.2	10.	55	18	40-140	30
Bis(2-chloroisopropyl)ether	ND	18.2	11.	61	18.2	9.8	54	12	40-140	30
Bis(2-chloroethoxy)methane	ND	18.2	11.	61	18.2	10.	55	10	40-140	30
Hexachlorocyclopentadiene	ND	18.2	10.J	55	18.2	9.8J	54	2	40-140	30
Isophorone	ND	18.2	11.	61	18.2	10.	55	10	40-140	30
Nitrobenzene	ND	18.2	11.	61	18.2	10.	55	10	40-140	30
NDPA/DPA	ND	18.2	12.	66	18.2	11.	61	9	40-140	30
n-Nitrosodi-n-propylamine	ND	18.2	11.	61	18.2	10.	55	10	29-132	30
Bis(2-ethylhexyl)phthalate	ND	18.2	13.	72	18.2	11.	61	17	40-140	30
Butyl benzyl phthalate	ND	18.2	13.	72	18.2	11.	61	17	40-140	30
Di-n-butylphthalate	ND	18.2	13.	72	18.2	11.	61	17	40-140	30
Di-n-octylphthalate	ND	18.2	13.	72	18.2	12.	66	8	40-140	30
Diethyl phthalate	ND	18.2	12.	66	18.2	10.	55	18	40-140	30
Dimethyl phthalate	ND	18.2	11.	61	18.2	10.	55	10	40-140	30
Biphenyl	ND	18.2	11.	61	18.2	9.9	54	11	40-140	30
4-Chloroaniline	ND	18.2	11.	61	18.2	10.	55	10	40-140	30
2-Nitroaniline	ND	18.2	12.	66	18.2	11.	61	9	52-143	30

Matrix Spike Sample Summary
Form 3
Semivolatiles

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Client Sample ID	: MW-6B	**Matrix (Level)**	: WATER (LOW)
Lab Sample ID	: L2434679-03	**Analysis Date**	: 06/24/24 19:59
Matrix Spike	: WG1938279-4	**MS Analysis Date**	: 06/24/24 19:14
Matrix Spike Dup	: WG1938279-5	**MSD Analysis Date**	: 06/24/24 19:37

		Matrix Spike Sample			Matrix Spike Duplicate					
Parameter	Sample Conc. (ug/l)	Spike Added (ug/l)	Spike Conc. (ug/l)	%R	Spike Added (ug/l)	Spike Conc. (ug/l)	%R	RPD	Recovery Limits	RPD Limit
3-Nitroaniline	ND	18.2	11.	61	18.2	11.	61	0	25-145	30
4-Nitroaniline	ND	18.2	12.	66	18.2	10.	55	18	51-143	30
Dibenzofuran	ND	18.2	12.	66	18.2	11.	61	9	40-140	30
1,2,4,5-Tetrachlorobenzene	ND	18.2	11.	61	18.2	10.	55	10	2-134	30
Acetophenone	ND	18.2	11.	61	18.2	9.9	54	11	39-129	30
2,4,6-Trichlorophenol	ND	18.2	13.	72	18.2	11.	61	17	30-130	30
p-Chloro-m-cresol	ND	18.2	13.	72	18.2	12.	66	8	23-97	30
2-Chlorophenol	ND	18.2	12.	66	18.2	11.	61	9	27-123	30
2,4-Dichlorophenol	ND	18.2	12.	66	18.2	11.	61	9	30-130	30
2,4-Dimethylphenol	ND	18.2	9.7	53	18.2	8.7	48	11	30-130	30
2-Nitrophenol	ND	18.2	12.	66	18.2	10.	55	18	30-130	30
4-Nitrophenol	ND	18.2	11.	61	18.2	10.	55	10	10-80	30
2,4-Dinitrophenol	ND	18.2	11.J	61	18.2	9.8J	54	12	20-130	30
4,6-Dinitro-o-cresol	ND	18.2	12.	66	18.2	10.	55	18	20-164	30
Phenol	ND	18.2	9.1	50	18.2	8.7	48	4	12-110	30
2-Methylphenol	ND	18.2	11.	61	18.2	10.	55	10	30-130	30
3-Methylphenol/4-Methylphenol	ND	18.2	11.	61	18.2	10.	55	10	30-130	30
2,4,5-Trichlorophenol	ND	18.2	13.	72	18.2	12.	66	8	30-130	30
Carbazole	ND	18.2	12.	66	18.2	11.	61	9	55-144	30
Atrazine	ND	18.2	11.	61	18.2	9.8J	54	12	40-140	30
Benzaldehyde	ND	18.2	10.	55	18.2	9.1	50	9	40-140	30
Caprolactam	ND	18.2	6.1J	34	18.2	5.5J	30	10	10-130	30

Matrix Spike Sample Summary
Form 3
Semivolatiles

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Client Sample ID	: MW-6B	**Matrix (Level)**	: WATER (LOW)
Lab Sample ID	: L2434679-03	**Analysis Date**	: 06/24/24 19:59
Matrix Spike	: WG1938279-4	**MS Analysis Date**	: 06/24/24 19:14
Matrix Spike Dup	: WG1938279-5	**MSD Analysis Date**	: 06/24/24 19:37

		Matrix Spike Sample			Matrix Spike Duplicate					
Parameter	Sample Conc. (ug/l)	Spike Added (ug/l)	Spike Conc. (ug/l)	%R	Spike Added (ug/l)	Spike Conc. (ug/l)	%R	RPD	Recovery Limits	RPD Limit
2,3,4,6-Tetrachlorophenol	ND	18.2	13.	72	18.2	11.	61	17	40-140	30

Surrogate Recovery Summary
Form 2
Semivolatiles

Client: Alpha Geoscience
Project Name: RANCO MINE

Lab Number: L2434679
Project Number: 12123
Matrix: Water

CLIENT ID (LAB SAMPLE NO.)	S1 (2FP)	S2 (PHL)	S3 (NBZ)	S4 (FBP)	S5 (TBP)	S6 (TPH)	TOT OUT
MW-3A (L2434679-01)	24	21	31	33	28	33*	1
MW-6A (L2434679-02)	44	38	46	50	48	52	0
MW-6B (L2434679-03)	67	56	73	74	75	78	0
MW-6C (L2434679-04)	65	53	66	72	74	77	0
MW-7A (L2434679-05)	63	51	69	72	73	79	0
MW-7B (L2434679-06)	66	55	68	69	76	77	0
MW-7C (L2434679-07)	68	55	69	73	80	80	0
MW-8A (L2434679-08)	63	51	64	71	74	74	0
MW-8B (L2434679-09)	58	49	65	73	70	76	0
MW-9B (L2434679-10)	42	35	53	58	51	60	0
DUP (L2434679-11)	42	32	46	47	46	47	0
EB (L2434679-12)	47	38	50	55	55	57	0
MW-8B2 (L2434679-14)	46	36	50	54	53	51	0
WG1938279-1BLANK	58	48	64	65	67	75	0
WG1938279-2LCS	61	54	61	63	69	66	0
WG1938279-3LCSD	57	50	58	61	66	62	0
MW-6BMS	57	49	60	66	70	67	0
MW-6BMSD	54	48	54	59	64	59	0
WG1938723-1BLANK	47	38	58	61	64	64	0
WG1938723-2LCS	46	37	52	54	60	57	0
WG1938723-3LCSD	52	43	61	63	68	62	0

QC LIMITS

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

*** Values outside of QC limits**

FORM II NYTCL-8270-LVI

Method Blank Summary
Form 4
Semivolatiles

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Lab Sample ID	: WG1938279-1	**Lab File ID**	: 938279-1
Instrument ID	: DAKOTA	**Extraction Date**	: 06/23/24
Matrix	: WATER	**Analysis Date**	: 06/24/24 16:37
Level	: LOW		

Client Sample No.	Lab Sample ID	Analysis Date
WG1938279-2LCS	WG1938279-2	06/24/24 17:00
WG1938279-3LCSD	WG1938279-3	06/24/24 17:22
MW-6BMS	WG1938279-4	06/24/24 19:14
MW-6BMSD	WG1938279-5	06/24/24 19:37
MW-6B	L2434679-03	06/24/24 19:59
MW-6C	L2434679-04	06/24/24 20:22
MW-7A	L2434679-05	06/24/24 20:44
MW-7B	L2434679-06	06/24/24 21:06
MW-7C	L2434679-07	06/24/24 21:29
MW-8A	L2434679-08	06/24/24 21:51
MW-8B	L2434679-09	06/24/24 22:14
DUP	L2434679-11	06/24/24 22:37
EB	L2434679-12	06/24/24 22:59
MW-8B2	L2434679-14	06/24/24 23:22
MW-6A	L2434679-02	06/24/24 23:45

Method Blank Summary
Form 4
Semivolatiles

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Lab Sample ID	: WG1938723-1	**Lab File ID**	: 938723-1
Instrument ID	: DAKOTA	**Extraction Date**	: 06/24/24
Matrix	: WATER	**Analysis Date**	: 06/25/24 10:18
Level	: LOW		

Client Sample No.	Lab Sample ID	Analysis Date
WG1938723-2LCS	WG1938723-2	06/25/24 10:40
WG1938723-3LCSD	WG1938723-3	06/25/24 11:03
MW-3A	L2434679-01	06/25/24 12:12
MW-9B	L2434679-10	06/25/24 12:35

Instrument Performance Check (Tune) Summary
Form 5
Semivolatiles
Decafluorotriphenylphosphine (DFTPP)

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Instrument ID	: DAKOTA	**Analysis Date**	: 06/18/24 11:59
Tune Standard	: R1844601-31	**Tune File ID**	: Tune1_tune

m/e	Ion Abundance Criteria	%Relative Abundance
51	10.0 - 80.0% of Base Peak	34.9
68	Less than 2.0% of mass 69	0.5 (1.1)1
69		100
70	Less than 2.0% of mass 69	0.2 (.4)1
127	10.0 - 80.0% of Base Peak	46
197	Less than 2.0% of mass 198	0.4
198	Base Peak, or >50% of mass 442	100
199	5.0 - 9.0% of mass 198	7
275	10.0 - 60.0% of Base Peak	24.6
365	Greater than 1.0% of mass 198	2.8
441	Present, but less than 24% of mass 442	17
442	Base Peak, or >50% of mass 198	70.7
443	15.0 - 24.0% of mass 442	13.1 (18.5)2

1-Value is % of mass 69 2-Value is % of mass 442

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

Client Sample ID	Lab Sample ID	File ID	Analysis Date/Time
ABNL9	R1844601-10	ABNL9	06/18/24 12:22
ABNL8	R1844601-8	ABNL8	06/18/24 12:45
ABNL7	R1844601-7	ABNL7	06/18/24 13:07
ABNL6	R1844601-6	ABNL6	06/18/24 13:30
ABNL5	R1844601-5	ABNL5	06/18/24 13:52
ABNL4	R1844601-4	ABNL4	06/18/24 14:15
ABNL3	R1844601-3	ABNL3	06/18/24 14:38
ABNL2	R1844601-2	ABNL2	06/18/24 15:00
ABNL1	R1844601-1	ABNL1	06/18/24 15:23
AP9L9	R1844601-27	AP9L9	06/18/24 15:46
AP9L8	R1844601-25	AP9L8	06/18/24 16:08
AP9L7	R1844601-26	AP9L7	06/18/24 16:31
AP9L6	R1844601-23	AP9L6	06/18/24 16:54
AP9L5	R1844601-24	AP9L5	06/18/24 17:16
AP9L4	R1844601-22	AP9L4	06/18/24 17:39
AP9L3	R1844601-21	AP9L3	06/18/24 18:02
AP9L2	R1844601-19	AP9L2	06/18/24 18:24
AP9L1	R1844601-20	AP9L1	06/18/24 18:47
ABN ICV Quant Report	R1844601-28	ABNICV	06/18/24 19:10

Instrument Performance Check (Tune) Summary
Form 5
Semivolatiles
Decafluorotriphenylphosphine (DFTPP)

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Instrument ID	: DAKOTA	**Analysis Date**	: 06/18/24 20:19
Tune Standard	: R1844601-32	**Tune File ID**	: Tune2_tune

m/e	Ion Abundance Criteria	%Relative Abundance
51	10.0 - 80.0% of Base Peak	33.8
68	Less than 2.0% of mass 69	0.2 (.5)1
69		100
70	Less than 2.0% of mass 69	0.2 (.5)1
127	10.0 - 80.0% of Base Peak	46.3
197	Less than 2.0% of mass 198	0
198	Base Peak, or >50% of mass 442	100
199	5.0 - 9.0% of mass 198	6.6
275	10.0 - 60.0% of Base Peak	25.1
365	Greater than 1.0% of mass 198	3
441	Present, but less than 24% of mass 442	17.4
442	Base Peak, or >50% of mass 198	80.6
443	15.0 - 24.0% of mass 442	16 (19.8)2

1-Value is % of mass 69 2-Value is % of mass 442

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

Client Sample ID	Lab Sample ID	File ID	Analysis Date/Time
AP9 ICV Quant Report	R1844601-30	AP9ICV	06/18/24 20:41
ADPL9	R1844601-17	ADPL9	06/18/24 21:04
ADPL8	R1844601-18	ADPL8	06/18/24 21:26
ADPL7	R1844601-15	ADPL7	06/18/24 21:49
ADPL6	R1844601-16	ADPL6	06/18/24 22:11
ADPL5	R1844601-14	ADPL5	06/18/24 22:34
ADPL4	R1844601-13	ADPL4	06/18/24 22:56
ADPL3	R1844601-12	ADPL3	06/18/24 23:19
ADPL2	R1844601-11	ADPL2	06/18/24 23:41
ADPL1	R1844601-9	ADPL1	06/19/24 00:04
ADP ICV Quant Report	R1844601-29	ADPICV	06/19/24 00:26

Instrument Performance Check (Tune) Summary
Form 5
Semivolatiles
Decafluorotriphenylphosphine (DFTPP)

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Instrument ID	: DAKOTA	**Analysis Date**	: 06/24/24 13:38
Tune Standard	: WG1938645-1	**Tune File ID**	: DEG0624_tune

m/e	Ion Abundance Criteria	%Relative Abundance
51	10.0 - 80.0% of Base Peak	36
68	Less than 2.0% of mass 69	0 (0)1
69		100
70	Less than 2.0% of mass 69	0.3 (.6)1
127	10.0 - 80.0% of Base Peak	46.4
197	Less than 2.0% of mass 198	0
198	Base Peak, or >50% of mass 442	100
199	5.0 - 9.0% of mass 198	6.9
275	10.0 - 60.0% of Base Peak	25.3
365	Greater than 1.0% of mass 198	2.9
441	Present, but less than 24% of mass 442	17.6
442	Base Peak, or >50% of mass 198	71.7
443	15.0 - 24.0% of mass 442	13.7 (19.1)2

1-Value is % of mass 69 2-Value is % of mass 442

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

Client Sample ID	Lab Sample ID	File ID	Analysis Date/Time
WG1938645-6TFACTOR-B	WG1938645-6	DEG0624	06/24/24 13:38
WG1938645-7TFACTOR-P	WG1938645-7	DEG0624	06/24/24 13:38
WG1938645-3CCAL	WG1938645-3	ABN0624	06/24/24 14:00
WG1938645-4CCAL	WG1938645-4	AP90624	06/24/24 14:22
WG1938645-5CCAL	WG1938645-5	ADP0624	06/24/24 14:45
WG1938279-1BLANK	WG1938279-1	938279-1	06/24/24 16:37
WG1938279-2LCS	WG1938279-2	938279-2	06/24/24 17:00
WG1938279-3LCSD	WG1938279-3	938279-3	06/24/24 17:22
WG1938279-4MS	WG1938279-4	938279-4	06/24/24 19:14
WG1938279-5MSD	WG1938279-5	938279-5	06/24/24 19:37
MW-6B	L2434679-03	34679-03	06/24/24 19:59
MW-6C	L2434679-04	34679-04	06/24/24 20:22
MW-7A	L2434679-05	34679-05	06/24/24 20:44
MW-7B	L2434679-06	34679-06	06/24/24 21:06
MW-7C	L2434679-07	34679-07	06/24/24 21:29
MW-8A	L2434679-08	34679-08	06/24/24 21:51
MW-8B	L2434679-09	34679-09	06/24/24 22:14
DUP	L2434679-11	34679-11	06/24/24 22:37
EB	L2434679-12	34679-12	06/24/24 22:59
MW-8B2	L2434679-14	34679-14	06/24/24 23:22
MW-6A	L2434679-02	34679-02	06/24/24 23:45

Instrument Performance Check (Tune) Summary
Form 5
Semivolatiles
Decafluorotriphenylphosphine (DFTPP)

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Instrument ID	: DAKOTA	**Analysis Date**	: 06/25/24 06:57
Tune Standard	: WG1938967-1	**Tune File ID**	: DEG0625_tune

m/e	Ion Abundance Criteria	%Relative Abundance
51	10.0 - 80.0% of Base Peak	34.5
68	Less than 2.0% of mass 69	0.3 (.6)1
69		100
70	Less than 2.0% of mass 69	0.2 (.3)1
127	10.0 - 80.0% of Base Peak	45.5
197	Less than 2.0% of mass 198	0
198	Base Peak, or >50% of mass 442	100
199	5.0 - 9.0% of mass 198	6.7
275	10.0 - 60.0% of Base Peak	24.4
365	Greater than 1.0% of mass 198	2.9
441	Present, but less than 24% of mass 442	17.6
442	Base Peak, or >50% of mass 198	72.6
443	15.0 - 24.0% of mass 442	13.5 (18.7)2

1-Value is % of mass 69 2-Value is % of mass 442

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

Client Sample ID	Lab Sample ID	File ID	Analysis Date/Time
WG1938967-6TFACTOR-B	WG1938967-6	DEG0625	06/25/24 06:57
WG1938967-7TFACTOR-P	WG1938967-7	DEG0625	06/25/24 06:57
WG1938967-3CCAL	WG1938967-3	ABN0625	06/25/24 07:19
WG1938967-4CCAL	WG1938967-4	AP90625	06/25/24 07:42
WG1938967-5CCAL	WG1938967-5	ADP0625	06/25/24 08:05
WG1938723-1BLANK	WG1938723-1	938723-1	06/25/24 10:18
WG1938723-2LCS	WG1938723-2	938723-2	06/25/24 10:40
WG1938723-3LCSD	WG1938723-3	938723-3	06/25/24 11:03
MW-3A	L2434679-01	34679-01	06/25/24 12:12
MW-9B	L2434679-10	34679-10	06/25/24 12:35

Internal Standard Area and RT Summary
Form 8a
Semivolatiles

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Instrument ID	: DAKOTA	**Analysis Date**	: 06/24/24 14:00:00
Sample No	: WG1938645-3	**Lab File ID**	: ABN0624

	1,4-Dichlorobenzene-d4		Naphthalene-d8		Acenaphthene-d10	
	Area	RT	Area	RT	Area	RT
WG1938645-3	25255	4.51	92102	5.74	69151	7.44
Upper Limit	50510	5.01	184204	6.24	138302	7.94
Lower Limit	12628	4.01	46051	5.24	34576	6.94
Sample ID						
WG1938645-4 CCAL	26504	4.51	100155	5.74	69129	7.43
WG1938645-5 CCAL	26042	4.51	-	-	63201	7.43
WG1938279-1 BLANK	30819	4.51	108025	5.74	68956	7.43
WG1938279-2 LCS	29398	4.51	104560	5.74	68879	7.44
WG1938279-3 LCSD	29383	4.51	105208	5.74	69106	7.44
MW-6B MS	29926	4.51	102399	5.74	67529	7.43
MW-6B MSD	31260	4.51	103107	5.74	67696	7.44
MW-6B	24826	4.51	90098	5.74	60042	7.43
MW-6C	27137	4.51	93084	5.74	61030	7.43
MW-7A	26868	4.51	96192	5.74	62750	7.43
MW-7B	26117	4.51	95339	5.74	61376	7.44
MW-7C	26968	4.51	97173	5.74	62478	7.43
MW-8A	28851	4.51	98607	5.74	62524	7.44
MW-8B	28361	4.51	96629	5.74	61463	7.43
DUP	36078	4.51	126074	5.74	83815	7.44
EB	31637	4.51	110038	5.74	72205	7.44
MW-8B2	34590	4.51	114416	5.74	73577	7.44
MW-6A	33457	4.51	116537	5.74	77899	7.44

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

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

* Values outside of QC limits

Internal Standard Area and RT Summary
Form 8a
Semivolatiles

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Instrument ID	: DAKOTA	**Analysis Date**	: 06/24/24 14:00:00
Sample No	: WG1938645-3	**Lab File ID**	: ABN0624

	Phenanthrene-d10		Chrysene-d12		Perylene-d12	
	Area	RT	Area	RT	Area	RT
WG1938645-3	156078	8.86	161664	11.46	190313	12.90
Upper Limit	312156	9.36	323328	11.96	380626	13.40
Lower Limit	78039	8.36	80832	10.96	95157	12.40
Sample ID						
WG1938645-4 CCAL	166958	8.86	-	-	-	-
WG1938645-5 CCAL	157977	8.86	-	-	-	-
WG1938279-1 BLANK	161958	8.86	164732	11.46	197957	12.90
WG1938279-2 LCS	153748	8.86	149750	11.46	181092	12.90
WG1938279-3 LCSD	153675	8.86	151643	11.46	176626	12.90
MW-6B MS	147381	8.86	141221	11.46	163885	12.90
MW-6B MSD	148411	8.86	144928	11.46	172929	12.90
MW-6B	140707	8.86	142351	11.46	171262	12.90
MW-6C	137752	8.86	141693	11.46	170579	12.90
MW-7A	143567	8.86	148998	11.46	178295	12.90
MW-7B	141536	8.86	145790	11.45	173897	12.90
MW-7C	147597	8.86	147217	11.46	135887	12.90
MW-8A	143299	8.86	141743	11.45	171415	12.90
MW-8B	145361	8.86	146798	11.46	178379	12.90
DUP	196932	8.86	199574	11.46	240473	12.90
EB	167403	8.86	168314	11.46	206868	12.90
MW-8B2	175621	8.86	165890	11.46	196271	12.90
MW-6A	181419	8.86	186338	11.46	223615	12.90

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

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

* Values outside of QC limits

Internal Standard Area and RT Summary
Form 8a
Semivolatiles

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Instrument ID	: DAKOTA	**Analysis Date**	: 06/25/24 07:19:00
Sample No	: WG1938967-3	**Lab File ID**	: ABN0625

	1,4-Dichlorobenzene-d4		Naphthalene-d8		Acenaphthene-d10	
	Area	RT	Area	RT	Area	RT
WG1938967-3	26257	4.49	95039	5.72	67008	7.42
Upper Limit	52514	4.99	190078	6.22	134016	7.92
Lower Limit	13129	3.99	47520	5.22	33504	6.92
Sample ID						
WG1938967-4 CCAL	27010	4.49	101426	5.72	69385	7.42
WG1938967-5 CCAL	29091	4.49	-	-	69313	7.42
WG1938723-1 BLANK	30197	4.49	104481	5.72	68306	7.42
WG1938723-2 LCS	30130	4.49	104667	5.72	73044	7.42
WG1938723-3 LCSD	29829	4.49	103043	5.72	70177	7.42
MW-3A	47121	4.49	170168	5.72	118934	7.42
MW-9B	30454	4.49	107539	5.72	75810	7.42

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

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

* Values outside of QC limits

Internal Standard Area and RT Summary
Form 8a
Semivolatiles

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Instrument ID	: DAKOTA	**Analysis Date**	: 06/25/24 07:19:00
Sample No	: WG1938967-3	**Lab File ID**	: ABN0625

	Phenanthrene-d10		Chrysene-d12		Perylene-d12	
	Area	RT	Area	RT	Area	RT
WG1938967-3	156879	8.84	168902	11.44	203294	12.89
Upper Limit	313758	9.34	337804	11.94	406588	13.39
Lower Limit	78440	8.34	84451	10.94	101647	12.39
Sample ID						
WG1938967-4 CCAL	165806	8.84	-	-	-	-
WG1938967-5 CCAL	162640	8.84	-	-	-	-
WG1938723-1 BLANK	171920	8.84	181780	11.44	216716	12.88
WG1938723-2 LCS	170021	8.84	176864	11.44	209230	12.88
WG1938723-3 LCSD	170115	8.84	177836	11.44	202493	12.88
MW-3A	276893	8.84	288315	11.44	353200	12.88
MW-9B	178261	8.84	186028	11.44	221753	12.88

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

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

* Values outside of QC limits

Date Created: 03/07/23
Created By: Jason Hebert
File: PM14021-1
Page: 1

ABN Extractables - EPA 8270E (WATER)

Holding Time: 7 days
Container/Sample Preservation: 2 - Amber 1000ml unpreserved

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria		
Acenaphthene	83-32-9	2	1.06	ug/l	37-111	30	37-111	30	30			
Benzidine	92-87-5	20	8.14	ug/l	10-75	30	10-75	30	30			
1,2,4-Trichlorobenzene	120-82-1	5	0.581	ug/l	39-98	30	39-98	30	30			
Hexachlorobenzene	118-74-1	2	0.69	ug/l	40-140	30	40-140	30	30			
Bis(2-chloroethyl)ether	111-44-4	2	0.884	ug/l	40-140	30	40-140	30	30			
2-Chloronaphthalene	91-58-7	2	0.538	ug/l	40-140	30	40-140	30	30			
1,2-Dichlorobenzene	95-50-1	2	0.636	ug/l	40-140	30	40-140	30	30			
1,3-Dichlorobenzene	541-73-1	2	0.642	ug/l	40-140	30	40-140	30	30			
1,4-Dichlorobenzene	106-46-7	2	0.463	ug/l	36-97	30	36-97	30	30			
3,3'-Dichlorobenzidine	91-94-1	5	0.854	ug/l	40-140	30	40-140	30	30			
2,4-Dinitrotoluene	121-14-2	5	0.382	ug/l	48-143	30	48-143	30	30			
2,6-Dinitrotoluene	606-20-2	5	0.368	ug/l	40-140	30	40-140	30	30			
Azobenzene	122-66-7	2	0.81	ug/l	40-140	30	40-140	30	30			
Fluoranthene	206-44-0	2	0.653	ug/l	40-140	30	40-140	30	30			
4-Chlorophenyl phenyl ether	7005-72-3	2	0.795	ug/l	40-140	30	40-140	30	30			
4-Bromophenyl phenyl ether	101-55-3	2	0.632	ug/l	40-140	30	40-140	30	30			
Bis(2-chloroisopropyl)ether	108-60-1	2	1.75	ug/l	40-140	30	40-140	30	30			
Bis(2-chloroethoxy)methane	111-91-1	5	1.49	ug/l	40-140	30	40-140	30	30			
Hexachlorobutadiene	87-68-3	2	0.6	ug/l	40-140	30	40-140	30	30			
Hexachlorocyclopentadiene	77-47-4	20	0.606	ug/l	40-140	30	40-140	30	30			
Hexachloroethane	67-72-1	2	0.44	ug/l	40-140	30	40-140	30	30			
Isophorone	78-59-1	5	0.657	ug/l	40-140	30	40-140	30	30			
Naphthalene	91-20-3	2	0.669	ug/l	40-140	30	40-140	30	30			
Nitrobenzene	98-95-3	2	0.656	ug/l	40-140	30	40-140	30	30			
NitrosoDiPhenylAmine(NDPA)/DPA	86-30-6	2	0.65	ug/l	40-140	30	40-140	30	30			
n-Nitrosodi-n-propylamine	621-64-7	5	0.771	ug/l	29-132	30	29-132	30	30			
Bis(2-Ethylhexyl)phthalate	117-81-7	3	1.51	ug/l	40-140	30	40-140	30	30			
Butyl benzyl phthalate	85-68-7	5	2.18	ug/l	40-140	30	40-140	30	30			
Di-n-butylphthalate	84-74-2	5	0.58	ug/l	40-140	30	40-140	30	30			
Di-n-octylphthalate	117-84-0	5	2.39	ug/l	40-140	30	40-140	30	30			
Diethyl phthalate	84-66-2	5	4.3	ug/l	40-140	30	40-140	30	30			
Dimethyl phthalate	131-11-3	5	4.44	ug/l	40-140	30	40-140	30	30			
Benzo(a)anthracene	56-55-3	2	0.767	ug/l	40-140	30	40-140	30	30			
Benzo(a)pyrene	50-32-8	2	0.447	ug/l	40-140	30	40-140	30	30			
Benzo(b)fluoranthene	205-99-2	2	0.814	ug/l	40-140	30	40-140	30	30			
Benzo(k)fluoranthene	207-08-9	2	0.816	ug/l	40-140	30	40-140	30	30			
Chrysene	218-01-9	2	0.828	ug/l	40-140	30	40-140	30	30			
Acenaphthylene	208-96-8	2	0.59	ug/l	45-123	30	45-123	30	30			
Anthracene	120-12-7	2	0.79	ug/l	40-140	30	40-140	30	30			
Benzo(ghi)perylene	191-24-2	2	0.77	ug/l	40-140	30	40-140	30	30			
Fluorene	86-73-7	2	1.05	ug/l	40-140	30	40-140	30	30			
Phenanthrene	85-01-8	2	0.992	ug/l	40-140	30	40-140	30	30			

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

ABN Extractables - EPA 8270E (WATER)

Holding Time: 7 days
Container/Sample Preservation: 2 - Amber 1000ml unpreserved

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria		
Dibenzo(a,h)anthracene	53-70-3	2	0.452	ug/l	40-140	30	40-140	30	30			
Indeno(1,2,3-cd)Pyrene	193-39-5	2	0.943	ug/l	40-140	30	40-140	30	30			
Pyrene	129-00-0	2	0.704	ug/l	26-127	30	26-127	30	30			
Biphenyl	92-52-4	2	0.635	ug/l	40-140	30	40-140	30	30			
Aniline	62-53-3	2	0.482	ug/l	40-140	30	40-140	30	30			
4-Chloroaniline	106-47-8	5	0.647	ug/l	40-140	30	40-140	30	30			
1-Methylnaphthalene	90-12-0	2	0.595	ug/l	41-103	30	41-103	30	30			
2-Nitroaniline	88-74-4	5	0.519	ug/l	52-143	30	52-143	30	30			
3-Nitroaniline	99-09-2	5	0.574	ug/l	25-145	30	25-145	30	30			
4-Nitroaniline	100-01-6	5	0.581	ug/l	51-143	30	51-143	30	30			
Dibenzofuran	132-64-9	2	0.823	ug/l	40-140	30	40-140	30	30			
2-Methylnaphthalene	91-57-6	2	0.677	ug/l	40-140	30	40-140	30	30			
n-Nitrosodimethylamine	62-75-9	2	0.524	ug/l	22-74	30	22-74	30	30			
2,4,6-Trichlorophenol	88-06-2	5	0.494	ug/l	30-130	30	30-130	30	30			
P-Chloro-M-Cresol	59-50-7	2	0.406	ug/l	23-97	30	23-97	30	30			
2-Chlorophenol	95-57-8	2	0.405	ug/l	27-123	30	27-123	30	30			
2,4-Dichlorophenol	120-83-2	5	0.527	ug/l	30-130	30	30-130	30	30			
2,4-Dimethylphenol	105-67-9	5	1.1	ug/l	30-130	30	30-130	30	30			
2-Nitrophenol	88-75-5	10	0.463	ug/l	30-130	30	30-130	30	30			
4-Nitrophenol	100-02-7	10	1.14	ug/l	10-80	30	10-80	30	30			
2,4-Dinitrophenol	51-28-5	20	3.55	ug/l	20-130	30	20-130	30	30			
4,6-Dinitro-o-cresol	534-52-1	10	5.42	ug/l	20-164	30	20-164	30	30			
Pentachlorophenol	87-86-5	10	1.95	ug/l	9-103	30	9-103	30	30			
Phenol	108-95-2	5	1.3	ug/l	12-110	30	12-110	30	30			
2-Methylphenol	95-48-7	5	1.1	ug/l	30-130	30	30-130	30	30			
3-Methylphenol/4-Methylphenol	106-44-5	5	0.55	ug/l	30-130	30	30-130	30	30			
2,4,5-Trichlorophenol	95-95-4	5	0.381	ug/l	30-130	30	30-130	30	30			
Benzoic Acid	65-85-0	50	12.9	ug/l	10-164	30	10-164	30	30			
Benzyl Alcohol	100-51-6	2	0.698	ug/l	26-116	30	26-116	30	30			
Carbazole	86-74-8	2	0.759	ug/l	55-144	30	55-144	30	30			
Pyridine	110-86-1	3.5	0.905	ug/l	10-66	30	10-66	30	30			
2-Fluorophenol	*367-12-4*									*21-120*		
Phenol-d6	*13127-88-3*									*10-120*		
Nitrobenzene-d5	*4165-60-0*									*23-120*		
2-Fluorobiphenyl	*321-60-8*									*15-120*		
2,4,6-Tribromophenol	*118-79-6*									*10-120*		
4-Terphenyl-d14	*1718-51-0*									*41-149*		

Please Note that the RL information provided in this table is calculated using a 100% Solids factor. (Soil/Solids only)
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Date Created: 03/07/23
Created By: Jason Hebert
File: PM14022-1
Page: 1

ABN Extractables - EPA 8270E (SOIL)

Holding Time: 14 days
Container/Sample Preservation: 1 - Glass 250ml/8oz unpreserved

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria		
Acenaphthene	83-32-9	133.6	17.3012	ug/kg	31-137	50	31-137	50	50			
Benzidine	92-87-5	551.1	181.028	ug/kg	10-66	50	10-66	50	50			
1,2,4-Trichlorobenzene	120-82-1	167	19.1048	ug/kg	38-107	50	38-107	50	50			
Hexachlorobenzene	118-74-1	100.2	18.704	ug/kg	40-140	50	40-140	50	50			
Bis(2-chloroethyl)ether	111-44-4	150.3	22.6452	ug/kg	40-140	50	40-140	50	50			
2-Chloronaphthalene	91-58-7	167	16.5664	ug/kg	40-140	50	40-140	50	50			
1,2-Dichlorobenzene	95-50-1	167	29.9932	ug/kg	40-140	50	40-140	50	50			
1,3-Dichlorobenzene	541-73-1	167	28.724	ug/kg	40-140	50	40-140	50	50			
1,4-Dichlorobenzene	106-46-7	167	29.1582	ug/kg	28-104	50	28-104	50	50			
3,3'-Dichlorobenzidine	91-94-1	167	44.422	ug/kg	40-140	50	40-140	50	50			
2,4-Dinitrotoluene	121-14-2	167	33.4	ug/kg	40-132	50	40-132	50	50			
2,6-Dinitrotoluene	606-20-2	167	28.6572	ug/kg	40-140	50	40-140	50	50			
Azobenzene	122-66-7	167	16.032	ug/kg	40-140	50	40-140	50	50			
Fluoranthene	206-44-0	100.2	19.1716	ug/kg	40-140	50	40-140	50	50			
4-Chlorophenyl phenyl ether	7005-72-3	167	17.869	ug/kg	40-140	50	40-140	50	50			
4-Bromophenyl phenyl ether	101-55-3	167	25.4842	ug/kg	40-140	50	40-140	50	50			
Bis(2-chloroisopropyl)ether	108-60-1	200.4	28.5236	ug/kg	40-140	50	40-140	50	50			
Bis(2-chloroethoxy)methane	111-91-1	180.36	16.7334	ug/kg	40-117	50	40-117	50	50			
Hexachlorobutadiene	87-68-3	167	24.4488	ug/kg	40-140	50	40-140	50	50			
Hexachlorocyclopentadiene	77-47-4	477.62	151.302	ug/kg	40-140	50	40-140	50	50			
Hexachloroethane	67-72-1	133.6	27.0206	ug/kg	40-140	50	40-140	50	50			
Isophorone	78-59-1	150.3	21.6766	ug/kg	40-140	50	40-140	50	50			
Naphthalene	91-20-3	167	20.3406	ug/kg	40-140	50	40-140	50	50			
Nitrobenzene	98-95-3	150.3	24.716	ug/kg	40-140	50	40-140	50	50			
NitrosoDiPhenylAmine(NDPA)/DPA	86-30-6	133.6	19.0046	ug/kg	36-157	50	36-157	50	50			
n-Nitrosodi-n-propylamine	621-64-7	167	25.7848	ug/kg	32-121	50	32-121	50	50			
Bis(2-Ethylhexyl)phthalate	117-81-7	167	57.782	ug/kg	40-140	50	40-140	50	50			
Butyl benzyl phthalate	85-68-7	167	42.084	ug/kg	40-140	50	40-140	50	50			
Di-n-butylphthalate	84-74-2	167	31.6632	ug/kg	40-140	50	40-140	50	50			
Di-n-octylphthalate	117-84-0	167	56.78	ug/kg	40-140	50	40-140	50	50			
Diethyl phthalate	84-66-2	167	15.4642	ug/kg	40-140	50	40-140	50	50			
Dimethyl phthalate	131-11-3	167	35.07	ug/kg	40-140	50	40-140	50	50			
Benzo(a)anthracene	56-55-3	100.2	18.8042	ug/kg	40-140	50	40-140	50	50			
Benzo(a)pyrene	50-32-8	133.6	40.748	ug/kg	40-140	50	40-140	50	50			
Benzo(b)fluoranthene	205-99-2	100.2	28.1228	ug/kg	40-140	50	40-140	50	50			
Benzo(k)fluoranthene	207-08-9	100.2	26.72	ug/kg	40-140	50	40-140	50	50			
Chrysene	218-01-9	100.2	17.368	ug/kg	40-140	50	40-140	50	50			
Acenaphthylene	208-96-8	133.6	25.7848	ug/kg	40-140	50	40-140	50	50			
Anthracene	120-12-7	100.2	32.565	ug/kg	40-140	50	40-140	50	50			
Benzo(ghi)perylene	191-24-2	133.6	19.6392	ug/kg	40-140	50	40-140	50	50			
Fluorene	86-73-7	167	16.2324	ug/kg	40-140	50	40-140	50	50			
Phenanthrene	85-01-8	100.2	20.3072	ug/kg	40-140	50	40-140	50	50			

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ABN Extractables - EPA 8270E (SOIL)

Holding Time: 14 days
Container/Sample Preservation: 1 - Glass 250ml/8oz unpreserved

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria		
Dibenzo(a,h)anthracene	53-70-3	100.2	19.3052	ug/kg	40-140	50	40-140	50	50			
Indeno(1,2,3-cd)Pyrene	193-39-5	133.6	23.2798	ug/kg	40-140	50	40-140	50	50			
Pyrene	129-00-0	100.2	16.5998	ug/kg	35-142	50	35-142	50	50			
Biphenyl	92-52-4	380.76	21.71	ug/kg	37-127	50	37-127	50	50			
Aniline	62-53-3	200.4	78.824	ug/kg	40-140	50	40-140	50	50			
4-Chloroaniline	106-47-8	167	30.394	ug/kg	40-140	50	40-140	50	50			
1-Methylnaphthalene	90-12-0	167	19.372	ug/kg	26-130	50	26-130	50	50			
2-Nitroaniline	88-74-4	167	32.1976	ug/kg	47-134	50	47-134	50	50			
3-Nitroaniline	99-09-2	167	31.4962	ug/kg	26-129	50	26-129	50	50			
4-Nitroaniline	100-01-6	167	69.138	ug/kg	41-125	50	41-125	50	50			
Dibenzofuran	132-64-9	167	15.7982	ug/kg	40-140	50	40-140	50	50			
2-Methylnaphthalene	91-57-6	200.4	20.1736	ug/kg	40-140	50	40-140	50	50			
n-Nitrosodimethylamine	62-75-9	334	32.064	ug/kg	22-100	50	22-100	50	50			
2,4,6-Trichlorophenol	88-06-2	100.2	31.6632	ug/kg	30-130	50	30-130	50	50			
P-Chloro-M-Cresol	59-50-7	167	24.883	ug/kg	26-103	50	26-103	50	50			
2-Chlorophenol	95-57-8	167	19.7394	ug/kg	25-102	50	25-102	50	50			
2,4-Dichlorophenol	120-83-2	150.3	26.8536	ug/kg	30-130	50	30-130	50	50			
2,4-Dimethylphenol	105-67-9	167	55.11	ug/kg	30-130	50	30-130	50	50			
2-Nitrophenol	88-75-5	360.72	62.792	ug/kg	30-130	50	30-130	50	50			
4-Nitrophenol	100-02-7	233.8	68.136	ug/kg	11-114	50	11-114	50	50			
2,4-Dinitrophenol	51-28-5	801.6	77.822	ug/kg	4-130	50	4-130	50	50			
4,6-Dinitro-o-cresol	534-52-1	434.2	80.16	ug/kg	10-130	50	10-130	50	50			
Pentachlorophenol	87-86-5	133.6	36.74	ug/kg	17-109	50	17-109	50	50			
Phenol	108-95-2	167	25.217	ug/kg	26-90	50	26-90	50	50			
2-Methylphenol	95-48-7	167	25.885	ug/kg	30-130.	50	30-130.	50	50			
3-Methylphenol/4-Methylphenol	106-44-5	240.48	26.1522	ug/kg	30-130	50	30-130	50	50			
2,4,5-Trichlorophenol	95-95-4	167	31.9972	ug/kg	30-130	50	30-130	50	50			
Benzoic Acid	65-85-0	541.08	169.004	ug/kg	10-110	50	10-110	50	50			
Benzyl Alcohol	100-51-6	167	51.102	ug/kg	40-140	50	40-140	50	50			
Carbazole	86-74-8	167	16.2324	ug/kg	54-128	50	54-128	50	50			
Pyridine	110-86-1	180.36	63.46	ug/kg	10-93	50	10-93	50	50			
2-Fluorophenol	*367-12-4*									*25-120*		
Phenol-d6	*13127-88-3*									*10-120*		
Nitrobenzene-d5	*4165-60-0*									*23-120*		
2-Fluorobiphenyl	*321-60-8*									*30-120*		
2,4,6-Tribromophenol	*118-79-6*									*10-136*		
4-Terphenyl-d14	*1718-51-0*									*18-120*		

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Semivolatile Sample Data

Results Summary
Form 1
Semivolatile Organics by GC/MS

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Lab ID	: L2434679-01	**Date Collected**	: 06/19/24 09:30
Client ID	: MW-3A	**Date Received**	: 06/19/24
Sample Location	: MANORVILLE, NY	**Date Analyzed**	: 06/25/24 12:12
Sample Matrix	: WATER	**Date Extracted**	: 06/24/24
Analytical Method	: 1,8270E	**Dilution Factor**	: 1
Lab File ID	: 34679-01	**Analyst**	: LJG
Sample Amount	: 275 ml	**Instrument ID**	: DAKOTA
Extraction Method	: EPA 3510C	**GC Column**	: RTX5-MS
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
111-44-4	Bis(2-chloroethyl)ether	ND	2.0	0.50	U
91-94-1	3,3'-Dichlorobenzidine	ND	5.0	1.6	U
121-14-2	2,4-Dinitrotoluene	ND	5.0	1.2	U
606-20-2	2,6-Dinitrotoluene	ND	5.0	0.93	U
7005-72-3	4-Chlorophenyl phenyl ether	ND	2.0	0.49	U
101-55-3	4-Bromophenyl phenyl ether	ND	2.0	0.38	U
108-60-1	Bis(2-chloroisopropyl)ether	ND	2.0	0.53	U
111-91-1	Bis(2-chloroethoxy)methane	ND	5.0	0.50	U
77-47-4	Hexachlorocyclopentadiene	ND	20	0.69	U
78-59-1	Isophorone	ND	5.0	1.2	U
98-95-3	Nitrobenzene	ND	2.0	0.77	U
86-30-6	NDPA/DPA	ND	2.0	0.42	U
621-64-7	n-Nitrosodi-n-propylamine	ND	5.0	0.64	U
117-81-7	Bis(2-ethylhexyl)phthalate	ND	3.0	1.5	U
85-68-7	Butyl benzyl phthalate	ND	5.0	1.2	U
84-74-2	Di-n-butylphthalate	ND	5.0	0.39	U
117-84-0	Di-n-octylphthalate	ND	5.0	1.3	U
84-66-2	Diethyl phthalate	ND	5.0	0.38	U
131-11-3	Dimethyl phthalate	ND	5.0	1.8	U
92-52-4	Biphenyl	ND	2.0	0.46	U
106-47-8	4-Chloroaniline	ND	5.0	1.1	U
88-74-4	2-Nitroaniline	ND	5.0	0.50	U

Results Summary
Form 1
Semivolatile Organics by GC/MS

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Lab ID	: L2434679-01	**Date Collected**	: 06/19/24 09:30
Client ID	: MW-3A	**Date Received**	: 06/19/24
Sample Location	: MANORVILLE, NY	**Date Analyzed**	: 06/25/24 12:12
Sample Matrix	: WATER	**Date Extracted**	: 06/24/24
Analytical Method	: 1,8270E	**Dilution Factor**	: 1
Lab File ID	: 34679-01	**Analyst**	: LJG
Sample Amount	: 275 ml	**Instrument ID**	: DAKOTA
Extraction Method	: EPA 3510C	**GC Column**	: RTX5-MS
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
99-09-2	3-Nitroaniline	ND	5.0	0.81	U
100-01-6	4-Nitroaniline	ND	5.0	0.80	U
132-64-9	Dibenzofuran	ND	2.0	0.50	U
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	10	0.44	U
98-86-2	Acetophenone	ND	5.0	0.53	U
88-06-2	2,4,6-Trichlorophenol	ND	5.0	0.61	U
59-50-7	p-Chloro-m-cresol	ND	2.0	0.35	U
95-57-8	2-Chlorophenol	ND	2.0	0.48	U
120-83-2	2,4-Dichlorophenol	ND	5.0	0.41	U
105-67-9	2,4-Dimethylphenol	ND	5.0	1.8	U
88-75-5	2-Nitrophenol	ND	10	0.85	U
100-02-7	4-Nitrophenol	ND	10	0.67	U
51-28-5	2,4-Dinitrophenol	ND	20	6.6	U
534-52-1	4,6-Dinitro-o-cresol	ND	10	1.8	U
108-95-2	Phenol	ND	5.0	0.57	U
95-48-7	2-Methylphenol	ND	5.0	0.49	U
108-39-4/106-44-5	3-Methylphenol/4-Methylphenol	ND	5.0	0.48	U
95-95-4	2,4,5-Trichlorophenol	ND	5.0	0.77	U
86-74-8	Carbazole	ND	2.0	0.49	U
1912-24-9	Atrazine	ND	10	0.76	U
100-52-7	Benzaldehyde	ND	5.0	0.53	U
105-60-2	Caprolactam	ND	10	3.3	U

Results Summary
Form 1
Semivolatile Organics by GC/MS

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Lab ID	: L2434679-01	**Date Collected**	: 06/19/24 09:30
Client ID	: MW-3A	**Date Received**	: 06/19/24
Sample Location	: MANORVILLE, NY	**Date Analyzed**	: 06/25/24 12:12
Sample Matrix	: WATER	**Date Extracted**	: 06/24/24
Analytical Method	: 1,8270E	**Dilution Factor**	: 1
Lab File ID	: 34679-01	**Analyst**	: LJG
Sample Amount	: 275 ml	**Instrument ID**	: DAKOTA
Extraction Method	: EPA 3510C	**GC Column**	: RTX5-MS
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
58-90-2	2,3,4,6-Tetrachlorophenol	ND	5.0	0.84	U

Results Summary
Form 1
Semivolatile Organics by GC/MS

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Lab ID	: L2434679-02	**Date Collected**	: 06/18/24 16:35
Client ID	: MW-6A	**Date Received**	: 06/19/24
Sample Location	: MANORVILLE, NY	**Date Analyzed**	: 06/24/24 23:45
Sample Matrix	: WATER	**Date Extracted**	: 06/24/24
Analytical Method	: 1,8270E	**Dilution Factor**	: 1
Lab File ID	: 34679-02	**Analyst**	: JG
Sample Amount	: 275 ml	**Instrument ID**	: DAKOTA
Extraction Method	: EPA 3510C	**GC Column**	: RTX5-MS
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
111-44-4	Bis(2-chloroethyl)ether	ND	2.0	0.50	U
91-94-1	3,3'-Dichlorobenzidine	ND	5.0	1.6	U
121-14-2	2,4-Dinitrotoluene	ND	5.0	1.2	U
606-20-2	2,6-Dinitrotoluene	ND	5.0	0.93	U
7005-72-3	4-Chlorophenyl phenyl ether	ND	2.0	0.49	U
101-55-3	4-Bromophenyl phenyl ether	ND	2.0	0.38	U
108-60-1	Bis(2-chloroisopropyl)ether	ND	2.0	0.53	U
111-91-1	Bis(2-chloroethoxy)methane	ND	5.0	0.50	U
77-47-4	Hexachlorocyclopentadiene	ND	20	0.69	U
78-59-1	Isophorone	ND	5.0	1.2	U
98-95-3	Nitrobenzene	ND	2.0	0.77	U
86-30-6	NDPA/DPA	ND	2.0	0.42	U
621-64-7	n-Nitrosodi-n-propylamine	ND	5.0	0.64	U
117-81-7	Bis(2-ethylhexyl)phthalate	ND	3.0	1.5	U
85-68-7	Butyl benzyl phthalate	ND	5.0	1.2	U
84-74-2	Di-n-butylphthalate	ND	5.0	0.39	U
117-84-0	Di-n-octylphthalate	ND	5.0	1.3	U
84-66-2	Diethyl phthalate	ND	5.0	0.38	U
131-11-3	Dimethyl phthalate	ND	5.0	1.8	U
92-52-4	Biphenyl	ND	2.0	0.46	U
106-47-8	4-Chloroaniline	ND	5.0	1.1	U
88-74-4	2-Nitroaniline	ND	5.0	0.50	U

Results Summary
Form 1
Semivolatile Organics by GC/MS

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Lab ID	: L2434679-02	**Date Collected**	: 06/18/24 16:35
Client ID	: MW-6A	**Date Received**	: 06/19/24
Sample Location	: MANORVILLE, NY	**Date Analyzed**	: 06/24/24 23:45
Sample Matrix	: WATER	**Date Extracted**	: 06/24/24
Analytical Method	: 1,8270E	**Dilution Factor**	: 1
Lab File ID	: 34679-02	**Analyst**	: JG
Sample Amount	: 275 ml	**Instrument ID**	: DAKOTA
Extraction Method	: EPA 3510C	**GC Column**	: RTX5-MS
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
99-09-2	3-Nitroaniline	ND	5.0	0.81	U
100-01-6	4-Nitroaniline	ND	5.0	0.80	U
132-64-9	Dibenzofuran	ND	2.0	0.50	U
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	10	0.44	U
98-86-2	Acetophenone	ND	5.0	0.53	U
88-06-2	2,4,6-Trichlorophenol	ND	5.0	0.61	U
59-50-7	p-Chloro-m-cresol	ND	2.0	0.35	U
95-57-8	2-Chlorophenol	ND	2.0	0.48	U
120-83-2	2,4-Dichlorophenol	ND	5.0	0.41	U
105-67-9	2,4-Dimethylphenol	ND	5.0	1.8	U
88-75-5	2-Nitrophenol	ND	10	0.85	U
100-02-7	4-Nitrophenol	ND	10	0.67	U
51-28-5	2,4-Dinitrophenol	ND	20	6.6	U
534-52-1	4,6-Dinitro-o-cresol	ND	10	1.8	U
108-95-2	Phenol	ND	5.0	0.57	U
95-48-7	2-Methylphenol	ND	5.0	0.49	U
108-39-4/106-44-5	3-Methylphenol/4-Methylphenol	ND	5.0	0.48	U
95-95-4	2,4,5-Trichlorophenol	ND	5.0	0.77	U
86-74-8	Carbazole	ND	2.0	0.49	U
1912-24-9	Atrazine	ND	10	0.76	U
100-52-7	Benzaldehyde	ND	5.0	0.53	U
105-60-2	Caprolactam	ND	10	3.3	U

Results Summary
Form 1
Semivolatile Organics by GC/MS

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Lab ID	: L2434679-02	**Date Collected**	: 06/18/24 16:35
Client ID	: MW-6A	**Date Received**	: 06/19/24
Sample Location	: MANORVILLE, NY	**Date Analyzed**	: 06/24/24 23:45
Sample Matrix	: WATER	**Date Extracted**	: 06/24/24
Analytical Method	: 1,8270E	**Dilution Factor**	: 1
Lab File ID	: 34679-02	**Analyst**	: JG
Sample Amount	: 275 ml	**Instrument ID**	: DAKOTA
Extraction Method	: EPA 3510C	**GC Column**	: RTX5-MS
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
58-90-2	2,3,4,6-Tetrachlorophenol	ND	5.0	0.84	U

Results Summary
Form 1
Semivolatile Organics by GC/MS

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Lab ID	: L2434679-03	**Date Collected**	: 06/18/24 14:50
Client ID	: MW-6B	**Date Received**	: 06/19/24
Sample Location	: MANORVILLE, NY	**Date Analyzed**	: 06/24/24 19:59
Sample Matrix	: WATER	**Date Extracted**	: 06/23/24
Analytical Method	: 1,8270E	**Dilution Factor**	: 1
Lab File ID	: 34679-03	**Analyst**	: JG
Sample Amount	: 275 ml	**Instrument ID**	: DAKOTA
Extraction Method	: EPA 3510C	**GC Column**	: RTX5-MS
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
111-44-4	Bis(2-chloroethyl)ether	ND	2.0	0.50	U
91-94-1	3,3'-Dichlorobenzidine	ND	5.0	1.6	U
121-14-2	2,4-Dinitrotoluene	ND	5.0	1.2	U
606-20-2	2,6-Dinitrotoluene	ND	5.0	0.93	U
7005-72-3	4-Chlorophenyl phenyl ether	ND	2.0	0.49	U
101-55-3	4-Bromophenyl phenyl ether	ND	2.0	0.38	U
108-60-1	Bis(2-chloroisopropyl)ether	ND	2.0	0.53	U
111-91-1	Bis(2-chloroethoxy)methane	ND	5.0	0.50	U
77-47-4	Hexachlorocyclopentadiene	ND	20	0.69	U
78-59-1	Isophorone	ND	5.0	1.2	U
98-95-3	Nitrobenzene	ND	2.0	0.77	U
86-30-6	NDPA/DPA	ND	2.0	0.42	U
621-64-7	n-Nitrosodi-n-propylamine	ND	5.0	0.64	U
117-81-7	Bis(2-ethylhexyl)phthalate	ND	3.0	1.5	U
85-68-7	Butyl benzyl phthalate	ND	5.0	1.2	U
84-74-2	Di-n-butylphthalate	ND	5.0	0.39	U
117-84-0	Di-n-octylphthalate	ND	5.0	1.3	U
84-66-2	Diethyl phthalate	ND	5.0	0.38	U
131-11-3	Dimethyl phthalate	ND	5.0	1.8	U
92-52-4	Biphenyl	ND	2.0	0.46	U
106-47-8	4-Chloroaniline	ND	5.0	1.1	U
88-74-4	2-Nitroaniline	ND	5.0	0.50	U

Results Summary
Form 1
Semivolatile Organics by GC/MS

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Lab ID	: L2434679-03	**Date Collected**	: 06/18/24 14:50
Client ID	: MW-6B	**Date Received**	: 06/19/24
Sample Location	: MANORVILLE, NY	**Date Analyzed**	: 06/24/24 19:59
Sample Matrix	: WATER	**Date Extracted**	: 06/23/24
Analytical Method	: 1,8270E	**Dilution Factor**	: 1
Lab File ID	: 34679-03	**Analyst**	: JG
Sample Amount	: 275 ml	**Instrument ID**	: DAKOTA
Extraction Method	: EPA 3510C	**GC Column**	: RTX5-MS
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
99-09-2	3-Nitroaniline	ND	5.0	0.81	U
100-01-6	4-Nitroaniline	ND	5.0	0.80	U
132-64-9	Dibenzofuran	ND	2.0	0.50	U
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	10	0.44	U
98-86-2	Acetophenone	ND	5.0	0.53	U
88-06-2	2,4,6-Trichlorophenol	ND	5.0	0.61	U
59-50-7	p-Chloro-m-cresol	ND	2.0	0.35	U
95-57-8	2-Chlorophenol	ND	2.0	0.48	U
120-83-2	2,4-Dichlorophenol	ND	5.0	0.41	U
105-67-9	2,4-Dimethylphenol	ND	5.0	1.8	U
88-75-5	2-Nitrophenol	ND	10	0.85	U
100-02-7	4-Nitrophenol	ND	10	0.67	U
51-28-5	2,4-Dinitrophenol	ND	20	6.6	U
534-52-1	4,6-Dinitro-o-cresol	ND	10	1.8	U
108-95-2	Phenol	ND	5.0	0.57	U
95-48-7	2-Methylphenol	ND	5.0	0.49	U
108-39-4/106-44-5	3-Methylphenol/4-Methylphenol	ND	5.0	0.48	U
95-95-4	2,4,5-Trichlorophenol	ND	5.0	0.77	U
86-74-8	Carbazole	ND	2.0	0.49	U
1912-24-9	Atrazine	ND	10	0.76	U
100-52-7	Benzaldehyde	ND	5.0	0.53	U
105-60-2	Caprolactam	ND	10	3.3	U

Results Summary
Form 1
Semivolatile Organics by GC/MS

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Lab ID	: L2434679-03	**Date Collected**	: 06/18/24 14:50
Client ID	: MW-6B	**Date Received**	: 06/19/24
Sample Location	: MANORVILLE, NY	**Date Analyzed**	: 06/24/24 19:59
Sample Matrix	: WATER	**Date Extracted**	: 06/23/24
Analytical Method	: 1,8270E	**Dilution Factor**	: 1
Lab File ID	: 34679-03	**Analyst**	: JG
Sample Amount	: 275 ml	**Instrument ID**	: DAKOTA
Extraction Method	: EPA 3510C	**GC Column**	: RTX5-MS
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
58-90-2	2,3,4,6-Tetrachlorophenol	ND	5.0	0.84	U

Results Summary
Form 1
Semivolatile Organics by GC/MS

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Lab ID	: L2434679-04	**Date Collected**	: 06/18/24 14:49
Client ID	: MW-6C	**Date Received**	: 06/19/24
Sample Location	: MANORVILLE, NY	**Date Analyzed**	: 06/24/24 20:22
Sample Matrix	: WATER	**Date Extracted**	: 06/23/24
Analytical Method	: 1,8270E	**Dilution Factor**	: 1
Lab File ID	: 34679-04	**Analyst**	: JG
Sample Amount	: 275 ml	**Instrument ID**	: DAKOTA
Extraction Method	: EPA 3510C	**GC Column**	: RTX5-MS
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
111-44-4	Bis(2-chloroethyl)ether	ND	2.0	0.50	U
91-94-1	3,3'-Dichlorobenzidine	ND	5.0	1.6	U
121-14-2	2,4-Dinitrotoluene	ND	5.0	1.2	U
606-20-2	2,6-Dinitrotoluene	ND	5.0	0.93	U
7005-72-3	4-Chlorophenyl phenyl ether	ND	2.0	0.49	U
101-55-3	4-Bromophenyl phenyl ether	ND	2.0	0.38	U
108-60-1	Bis(2-chloroisopropyl)ether	ND	2.0	0.53	U
111-91-1	Bis(2-chloroethoxy)methane	ND	5.0	0.50	U
77-47-4	Hexachlorocyclopentadiene	ND	20	0.69	U
78-59-1	Isophorone	ND	5.0	1.2	U
98-95-3	Nitrobenzene	ND	2.0	0.77	U
86-30-6	NDPA/DPA	ND	2.0	0.42	U
621-64-7	n-Nitrosodi-n-propylamine	ND	5.0	0.64	U
117-81-7	Bis(2-ethylhexyl)phthalate	ND	3.0	1.5	U
85-68-7	Butyl benzyl phthalate	ND	5.0	1.2	U
84-74-2	Di-n-butylphthalate	ND	5.0	0.39	U
117-84-0	Di-n-octylphthalate	ND	5.0	1.3	U
84-66-2	Diethyl phthalate	ND	5.0	0.38	U
131-11-3	Dimethyl phthalate	ND	5.0	1.8	U
92-52-4	Biphenyl	ND	2.0	0.46	U
106-47-8	4-Chloroaniline	ND	5.0	1.1	U
88-74-4	2-Nitroaniline	ND	5.0	0.50	U

Results Summary
Form 1
Semivolatile Organics by GC/MS

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Lab ID	: L2434679-04	**Date Collected**	: 06/18/24 14:49
Client ID	: MW-6C	**Date Received**	: 06/19/24
Sample Location	: MANORVILLE, NY	**Date Analyzed**	: 06/24/24 20:22
Sample Matrix	: WATER	**Date Extracted**	: 06/23/24
Analytical Method	: 1,8270E	**Dilution Factor**	: 1
Lab File ID	: 34679-04	**Analyst**	: JG
Sample Amount	: 275 ml	**Instrument ID**	: DAKOTA
Extraction Method	: EPA 3510C	**GC Column**	: RTX5-MS
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
99-09-2	3-Nitroaniline	ND	5.0	0.81	U
100-01-6	4-Nitroaniline	ND	5.0	0.80	U
132-64-9	Dibenzofuran	ND	2.0	0.50	U
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	10	0.44	U
98-86-2	Acetophenone	ND	5.0	0.53	U
88-06-2	2,4,6-Trichlorophenol	ND	5.0	0.61	U
59-50-7	p-Chloro-m-cresol	ND	2.0	0.35	U
95-57-8	2-Chlorophenol	ND	2.0	0.48	U
120-83-2	2,4-Dichlorophenol	ND	5.0	0.41	U
105-67-9	2,4-Dimethylphenol	ND	5.0	1.8	U
88-75-5	2-Nitrophenol	ND	10	0.85	U
100-02-7	4-Nitrophenol	ND	10	0.67	U
51-28-5	2,4-Dinitrophenol	ND	20	6.6	U
534-52-1	4,6-Dinitro-o-cresol	ND	10	1.8	U
108-95-2	Phenol	ND	5.0	0.57	U
95-48-7	2-Methylphenol	ND	5.0	0.49	U
108-39-4/106-44-5	3-Methylphenol/4-Methylphenol	ND	5.0	0.48	U
95-95-4	2,4,5-Trichlorophenol	ND	5.0	0.77	U
86-74-8	Carbazole	ND	2.0	0.49	U
1912-24-9	Atrazine	ND	10	0.76	U
100-52-7	Benzaldehyde	ND	5.0	0.53	U
105-60-2	Caprolactam	ND	10	3.3	U

Results Summary
Form 1
Semivolatile Organics by GC/MS

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Lab ID	: L2434679-04	**Date Collected**	: 06/18/24 14:49
Client ID	: MW-6C	**Date Received**	: 06/19/24
Sample Location	: MANORVILLE, NY	**Date Analyzed**	: 06/24/24 20:22
Sample Matrix	: WATER	**Date Extracted**	: 06/23/24
Analytical Method	: 1,8270E	**Dilution Factor**	: 1
Lab File ID	: 34679-04	**Analyst**	: JG
Sample Amount	: 275 ml	**Instrument ID**	: DAKOTA
Extraction Method	: EPA 3510C	**GC Column**	: RTX5-MS
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
58-90-2	2,3,4,6-Tetrachlorophenol	ND	5.0	0.84	U

Results Summary
Form 1
Semivolatile Organics by GC/MS

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Lab ID	: L2434679-05	**Date Collected**	: 06/18/24 10:15
Client ID	: MW-7A	**Date Received**	: 06/19/24
Sample Location	: MANORVILLE, NY	**Date Analyzed**	: 06/24/24 20:44
Sample Matrix	: WATER	**Date Extracted**	: 06/23/24
Analytical Method	: 1,8270E	**Dilution Factor**	: 1
Lab File ID	: 34679-05	**Analyst**	: JG
Sample Amount	: 275 ml	**Instrument ID**	: DAKOTA
Extraction Method	: EPA 3510C	**GC Column**	: RTX5-MS
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
111-44-4	Bis(2-chloroethyl)ether	ND	2.0	0.50	U
91-94-1	3,3'-Dichlorobenzidine	ND	5.0	1.6	U
121-14-2	2,4-Dinitrotoluene	ND	5.0	1.2	U
606-20-2	2,6-Dinitrotoluene	ND	5.0	0.93	U
7005-72-3	4-Chlorophenyl phenyl ether	ND	2.0	0.49	U
101-55-3	4-Bromophenyl phenyl ether	ND	2.0	0.38	U
108-60-1	Bis(2-chloroisopropyl)ether	ND	2.0	0.53	U
111-91-1	Bis(2-chloroethoxy)methane	ND	5.0	0.50	U
77-47-4	Hexachlorocyclopentadiene	ND	20	0.69	U
78-59-1	Isophorone	ND	5.0	1.2	U
98-95-3	Nitrobenzene	ND	2.0	0.77	U
86-30-6	NDPA/DPA	ND	2.0	0.42	U
621-64-7	n-Nitrosodi-n-propylamine	ND	5.0	0.64	U
117-81-7	Bis(2-ethylhexyl)phthalate	ND	3.0	1.5	U
85-68-7	Butyl benzyl phthalate	ND	5.0	1.2	U
84-74-2	Di-n-butylphthalate	ND	5.0	0.39	U
117-84-0	Di-n-octylphthalate	ND	5.0	1.3	U
84-66-2	Diethyl phthalate	ND	5.0	0.38	U
131-11-3	Dimethyl phthalate	ND	5.0	1.8	U
92-52-4	Biphenyl	ND	2.0	0.46	U
106-47-8	4-Chloroaniline	ND	5.0	1.1	U
88-74-4	2-Nitroaniline	ND	5.0	0.50	U

Results Summary
Form 1
Semivolatile Organics by GC/MS

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Lab ID	: L2434679-05	**Date Collected**	: 06/18/24 10:15
Client ID	: MW-7A	**Date Received**	: 06/19/24
Sample Location	: MANORVILLE, NY	**Date Analyzed**	: 06/24/24 20:44
Sample Matrix	: WATER	**Date Extracted**	: 06/23/24
Analytical Method	: 1,8270E	**Dilution Factor**	: 1
Lab File ID	: 34679-05	**Analyst**	: JG
Sample Amount	: 275 ml	**Instrument ID**	: DAKOTA
Extraction Method	: EPA 3510C	**GC Column**	: RTX5-MS
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
99-09-2	3-Nitroaniline	ND	5.0	0.81	U
100-01-6	4-Nitroaniline	ND	5.0	0.80	U
132-64-9	Dibenzofuran	ND	2.0	0.50	U
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	10	0.44	U
98-86-2	Acetophenone	ND	5.0	0.53	U
88-06-2	2,4,6-Trichlorophenol	ND	5.0	0.61	U
59-50-7	p-Chloro-m-cresol	ND	2.0	0.35	U
95-57-8	2-Chlorophenol	ND	2.0	0.48	U
120-83-2	2,4-Dichlorophenol	ND	5.0	0.41	U
105-67-9	2,4-Dimethylphenol	ND	5.0	1.8	U
88-75-5	2-Nitrophenol	ND	10	0.85	U
100-02-7	4-Nitrophenol	ND	10	0.67	U
51-28-5	2,4-Dinitrophenol	ND	20	6.6	U
534-52-1	4,6-Dinitro-o-cresol	ND	10	1.8	U
108-95-2	Phenol	ND	5.0	0.57	U
95-48-7	2-Methylphenol	ND	5.0	0.49	U
108-39-4/106-44-5	3-Methylphenol/4-Methylphenol	ND	5.0	0.48	U
95-95-4	2,4,5-Trichlorophenol	ND	5.0	0.77	U
86-74-8	Carbazole	ND	2.0	0.49	U
1912-24-9	Atrazine	ND	10	0.76	U
100-52-7	Benzaldehyde	ND	5.0	0.53	U
105-60-2	Caprolactam	ND	10	3.3	U

Results Summary
Form 1
Semivolatile Organics by GC/MS

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Lab ID	: L2434679-05	**Date Collected**	: 06/18/24 10:15
Client ID	: MW-7A	**Date Received**	: 06/19/24
Sample Location	: MANORVILLE, NY	**Date Analyzed**	: 06/24/24 20:44
Sample Matrix	: WATER	**Date Extracted**	: 06/23/24
Analytical Method	: 1,8270E	**Dilution Factor**	: 1
Lab File ID	: 34679-05	**Analyst**	: JG
Sample Amount	: 275 ml	**Instrument ID**	: DAKOTA
Extraction Method	: EPA 3510C	**GC Column**	: RTX5-MS
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
58-90-2	2,3,4,6-Tetrachlorophenol	ND	5.0	0.84	U

Results Summary
Form 1
Semivolatile Organics by GC/MS

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Lab ID	: L2434679-06	**Date Collected**	: 06/18/24 12:05
Client ID	: MW-7B	**Date Received**	: 06/19/24
Sample Location	: MANORVILLE, NY	**Date Analyzed**	: 06/24/24 21:06
Sample Matrix	: WATER	**Date Extracted**	: 06/23/24
Analytical Method	: 1,8270E	**Dilution Factor**	: 1
Lab File ID	: 34679-06	**Analyst**	: JG
Sample Amount	: 275 ml	**Instrument ID**	: DAKOTA
Extraction Method	: EPA 3510C	**GC Column**	: RTX5-MS
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
111-44-4	Bis(2-chloroethyl)ether	ND	2.0	0.50	U
91-94-1	3,3'-Dichlorobenzidine	ND	5.0	1.6	U
121-14-2	2,4-Dinitrotoluene	ND	5.0	1.2	U
606-20-2	2,6-Dinitrotoluene	ND	5.0	0.93	U
7005-72-3	4-Chlorophenyl phenyl ether	ND	2.0	0.49	U
101-55-3	4-Bromophenyl phenyl ether	ND	2.0	0.38	U
108-60-1	Bis(2-chloroisopropyl)ether	ND	2.0	0.53	U
111-91-1	Bis(2-chloroethoxy)methane	ND	5.0	0.50	U
77-47-4	Hexachlorocyclopentadiene	ND	20	0.69	U
78-59-1	Isophorone	ND	5.0	1.2	U
98-95-3	Nitrobenzene	ND	2.0	0.77	U
86-30-6	NDPA/DPA	ND	2.0	0.42	U
621-64-7	n-Nitrosodi-n-propylamine	ND	5.0	0.64	U
117-81-7	Bis(2-ethylhexyl)phthalate	ND	3.0	1.5	U
85-68-7	Butyl benzyl phthalate	ND	5.0	1.2	U
84-74-2	Di-n-butylphthalate	ND	5.0	0.39	U
117-84-0	Di-n-octylphthalate	ND	5.0	1.3	U
84-66-2	Diethyl phthalate	ND	5.0	0.38	U
131-11-3	Dimethyl phthalate	ND	5.0	1.8	U
92-52-4	Biphenyl	ND	2.0	0.46	U
106-47-8	4-Chloroaniline	ND	5.0	1.1	U
88-74-4	2-Nitroaniline	ND	5.0	0.50	U

Results Summary
Form 1
Semivolatile Organics by GC/MS

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Lab ID	: L2434679-06	**Date Collected**	: 06/18/24 12:05
Client ID	: MW-7B	**Date Received**	: 06/19/24
Sample Location	: MANORVILLE, NY	**Date Analyzed**	: 06/24/24 21:06
Sample Matrix	: WATER	**Date Extracted**	: 06/23/24
Analytical Method	: 1,8270E	**Dilution Factor**	: 1
Lab File ID	: 34679-06	**Analyst**	: JG
Sample Amount	: 275 ml	**Instrument ID**	: DAKOTA
Extraction Method	: EPA 3510C	**GC Column**	: RTX5-MS
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
99-09-2	3-Nitroaniline	ND	5.0	0.81	U
100-01-6	4-Nitroaniline	ND	5.0	0.80	U
132-64-9	Dibenzofuran	ND	2.0	0.50	U
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	10	0.44	U
98-86-2	Acetophenone	ND	5.0	0.53	U
88-06-2	2,4,6-Trichlorophenol	ND	5.0	0.61	U
59-50-7	p-Chloro-m-cresol	ND	2.0	0.35	U
95-57-8	2-Chlorophenol	ND	2.0	0.48	U
120-83-2	2,4-Dichlorophenol	ND	5.0	0.41	U
105-67-9	2,4-Dimethylphenol	ND	5.0	1.8	U
88-75-5	2-Nitrophenol	ND	10	0.85	U
100-02-7	4-Nitrophenol	ND	10	0.67	U
51-28-5	2,4-Dinitrophenol	ND	20	6.6	U
534-52-1	4,6-Dinitro-o-cresol	ND	10	1.8	U
108-95-2	Phenol	ND	5.0	0.57	U
95-48-7	2-Methylphenol	ND	5.0	0.49	U
108-39-4/106-44-5	3-Methylphenol/4-Methylphenol	ND	5.0	0.48	U
95-95-4	2,4,5-Trichlorophenol	ND	5.0	0.77	U
86-74-8	Carbazole	ND	2.0	0.49	U
1912-24-9	Atrazine	ND	10	0.76	U
100-52-7	Benzaldehyde	ND	5.0	0.53	U
105-60-2	Caprolactam	ND	10	3.3	U

Results Summary
Form 1
Semivolatile Organics by GC/MS

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Lab ID	: L2434679-06	**Date Collected**	: 06/18/24 12:05
Client ID	: MW-7B	**Date Received**	: 06/19/24
Sample Location	: MANORVILLE, NY	**Date Analyzed**	: 06/24/24 21:06
Sample Matrix	: WATER	**Date Extracted**	: 06/23/24
Analytical Method	: 1,8270E	**Dilution Factor**	: 1
Lab File ID	: 34679-06	**Analyst**	: JG
Sample Amount	: 275 ml	**Instrument ID**	: DAKOTA
Extraction Method	: EPA 3510C	**GC Column**	: RTX5-MS
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
58-90-2	2,3,4,6-Tetrachlorophenol	ND	5.0	0.84	U

Results Summary
Form 1
Semivolatile Organics by GC/MS

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Lab ID	: L2434679-07	**Date Collected**	: 06/18/24 12:12
Client ID	: MW-7C	**Date Received**	: 06/19/24
Sample Location	: MANORVILLE, NY	**Date Analyzed**	: 06/24/24 21:29
Sample Matrix	: WATER	**Date Extracted**	: 06/23/24
Analytical Method	: 1,8270E	**Dilution Factor**	: 1
Lab File ID	: 34679-07	**Analyst**	: JG
Sample Amount	: 275 ml	**Instrument ID**	: DAKOTA
Extraction Method	: EPA 3510C	**GC Column**	: RTX5-MS
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
111-44-4	Bis(2-chloroethyl)ether	ND	2.0	0.50	U
91-94-1	3,3'-Dichlorobenzidine	ND	5.0	1.6	U
121-14-2	2,4-Dinitrotoluene	ND	5.0	1.2	U
606-20-2	2,6-Dinitrotoluene	ND	5.0	0.93	U
7005-72-3	4-Chlorophenyl phenyl ether	ND	2.0	0.49	U
101-55-3	4-Bromophenyl phenyl ether	ND	2.0	0.38	U
108-60-1	Bis(2-chloroisopropyl)ether	ND	2.0	0.53	U
111-91-1	Bis(2-chloroethoxy)methane	ND	5.0	0.50	U
77-47-4	Hexachlorocyclopentadiene	ND	20	0.69	U
78-59-1	Isophorone	ND	5.0	1.2	U
98-95-3	Nitrobenzene	ND	2.0	0.77	U
86-30-6	NDPA/DPA	ND	2.0	0.42	U
621-64-7	n-Nitrosodi-n-propylamine	ND	5.0	0.64	U
117-81-7	Bis(2-ethylhexyl)phthalate	ND	3.0	1.5	U
85-68-7	Butyl benzyl phthalate	ND	5.0	1.2	U
84-74-2	Di-n-butylphthalate	ND	5.0	0.39	U
117-84-0	Di-n-octylphthalate	ND	5.0	1.3	U
84-66-2	Diethyl phthalate	ND	5.0	0.38	U
131-11-3	Dimethyl phthalate	ND	5.0	1.8	U
92-52-4	Biphenyl	ND	2.0	0.46	U
106-47-8	4-Chloroaniline	ND	5.0	1.1	U
88-74-4	2-Nitroaniline	ND	5.0	0.50	U

Results Summary
Form 1
Semivolatile Organics by GC/MS

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Lab ID	: L2434679-07	**Date Collected**	: 06/18/24 12:12
Client ID	: MW-7C	**Date Received**	: 06/19/24
Sample Location	: MANORVILLE, NY	**Date Analyzed**	: 06/24/24 21:29
Sample Matrix	: WATER	**Date Extracted**	: 06/23/24
Analytical Method	: 1,8270E	**Dilution Factor**	: 1
Lab File ID	: 34679-07	**Analyst**	: JG
Sample Amount	: 275 ml	**Instrument ID**	: DAKOTA
Extraction Method	: EPA 3510C	**GC Column**	: RTX5-MS
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
99-09-2	3-Nitroaniline	ND	5.0	0.81	U
100-01-6	4-Nitroaniline	ND	5.0	0.80	U
132-64-9	Dibenzofuran	ND	2.0	0.50	U
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	10	0.44	U
98-86-2	Acetophenone	ND	5.0	0.53	U
88-06-2	2,4,6-Trichlorophenol	ND	5.0	0.61	U
59-50-7	p-Chloro-m-cresol	ND	2.0	0.35	U
95-57-8	2-Chlorophenol	ND	2.0	0.48	U
120-83-2	2,4-Dichlorophenol	ND	5.0	0.41	U
105-67-9	2,4-Dimethylphenol	ND	5.0	1.8	U
88-75-5	2-Nitrophenol	ND	10	0.85	U
100-02-7	4-Nitrophenol	ND	10	0.67	U
51-28-5	2,4-Dinitrophenol	ND	20	6.6	U
534-52-1	4,6-Dinitro-o-cresol	ND	10	1.8	U
108-95-2	Phenol	ND	5.0	0.57	U
95-48-7	2-Methylphenol	ND	5.0	0.49	U
108-39-4/106-44-5	3-Methylphenol/4-Methylphenol	ND	5.0	0.48	U
95-95-4	2,4,5-Trichlorophenol	ND	5.0	0.77	U
86-74-8	Carbazole	ND	2.0	0.49	U
1912-24-9	Atrazine	ND	10	0.76	U
100-52-7	Benzaldehyde	ND	5.0	0.53	U
105-60-2	Caprolactam	ND	10	3.3	U

Results Summary
Form 1
Semivolatile Organics by GC/MS

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Lab ID	: L2434679-07	**Date Collected**	: 06/18/24 12:12
Client ID	: MW-7C	**Date Received**	: 06/19/24
Sample Location	: MANORVILLE, NY	**Date Analyzed**	: 06/24/24 21:29
Sample Matrix	: WATER	**Date Extracted**	: 06/23/24
Analytical Method	: 1,8270E	**Dilution Factor**	: 1
Lab File ID	: 34679-07	**Analyst**	: JG
Sample Amount	: 275 ml	**Instrument ID**	: DAKOTA
Extraction Method	: EPA 3510C	**GC Column**	: RTX5-MS
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
58-90-2	2,3,4,6-Tetrachlorophenol	ND	5.0	0.84	U

Results Summary
Form 1
Semivolatile Organics by GC/MS

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Lab ID	: L2434679-08	**Date Collected**	: 06/18/24 16:47
Client ID	: MW-8A	**Date Received**	: 06/19/24
Sample Location	: MANORVILLE, NY	**Date Analyzed**	: 06/24/24 21:51
Sample Matrix	: WATER	**Date Extracted**	: 06/23/24
Analytical Method	: 1,8270E	**Dilution Factor**	: 1
Lab File ID	: 34679-08	**Analyst**	: JG
Sample Amount	: 275 ml	**Instrument ID**	: DAKOTA
Extraction Method	: EPA 3510C	**GC Column**	: RTX5-MS
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
111-44-4	Bis(2-chloroethyl)ether	ND	2.0	0.50	U
91-94-1	3,3'-Dichlorobenzidine	ND	5.0	1.6	U
121-14-2	2,4-Dinitrotoluene	ND	5.0	1.2	U
606-20-2	2,6-Dinitrotoluene	ND	5.0	0.93	U
7005-72-3	4-Chlorophenyl phenyl ether	ND	2.0	0.49	U
101-55-3	4-Bromophenyl phenyl ether	ND	2.0	0.38	U
108-60-1	Bis(2-chloroisopropyl)ether	ND	2.0	0.53	U
111-91-1	Bis(2-chloroethoxy)methane	ND	5.0	0.50	U
77-47-4	Hexachlorocyclopentadiene	ND	20	0.69	U
78-59-1	Isophorone	ND	5.0	1.2	U
98-95-3	Nitrobenzene	ND	2.0	0.77	U
86-30-6	NDPA/DPA	ND	2.0	0.42	U
621-64-7	n-Nitrosodi-n-propylamine	ND	5.0	0.64	U
117-81-7	Bis(2-ethylhexyl)phthalate	ND	3.0	1.5	U
85-68-7	Butyl benzyl phthalate	ND	5.0	1.2	U
84-74-2	Di-n-butylphthalate	ND	5.0	0.39	U
117-84-0	Di-n-octylphthalate	ND	5.0	1.3	U
84-66-2	Diethyl phthalate	ND	5.0	0.38	U
131-11-3	Dimethyl phthalate	ND	5.0	1.8	U
92-52-4	Biphenyl	ND	2.0	0.46	U
106-47-8	4-Chloroaniline	ND	5.0	1.1	U
88-74-4	2-Nitroaniline	ND	5.0	0.50	U

Results Summary
Form 1
Semivolatile Organics by GC/MS

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Lab ID	: L2434679-08	**Date Collected**	: 06/18/24 16:47
Client ID	: MW-8A	**Date Received**	: 06/19/24
Sample Location	: MANORVILLE, NY	**Date Analyzed**	: 06/24/24 21:51
Sample Matrix	: WATER	**Date Extracted**	: 06/23/24
Analytical Method	: 1,8270E	**Dilution Factor**	: 1
Lab File ID	: 34679-08	**Analyst**	: JG
Sample Amount	: 275 ml	**Instrument ID**	: DAKOTA
Extraction Method	: EPA 3510C	**GC Column**	: RTX5-MS
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
99-09-2	3-Nitroaniline	ND	5.0	0.81	U
100-01-6	4-Nitroaniline	ND	5.0	0.80	U
132-64-9	Dibenzofuran	ND	2.0	0.50	U
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	10	0.44	U
98-86-2	Acetophenone	ND	5.0	0.53	U
88-06-2	2,4,6-Trichlorophenol	ND	5.0	0.61	U
59-50-7	p-Chloro-m-cresol	ND	2.0	0.35	U
95-57-8	2-Chlorophenol	ND	2.0	0.48	U
120-83-2	2,4-Dichlorophenol	ND	5.0	0.41	U
105-67-9	2,4-Dimethylphenol	ND	5.0	1.8	U
88-75-5	2-Nitrophenol	ND	10	0.85	U
100-02-7	4-Nitrophenol	ND	10	0.67	U
51-28-5	2,4-Dinitrophenol	ND	20	6.6	U
534-52-1	4,6-Dinitro-o-cresol	ND	10	1.8	U
108-95-2	Phenol	ND	5.0	0.57	U
95-48-7	2-Methylphenol	ND	5.0	0.49	U
108-39-4/106-44-5	3-Methylphenol/4-Methylphenol	ND	5.0	0.48	U
95-95-4	2,4,5-Trichlorophenol	ND	5.0	0.77	U
86-74-8	Carbazole	ND	2.0	0.49	U
1912-24-9	Atrazine	ND	10	0.76	U
100-52-7	Benzaldehyde	ND	5.0	0.53	U
105-60-2	Caprolactam	ND	10	3.3	U

Results Summary
Form 1
Semivolatile Organics by GC/MS

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Lab ID	: L2434679-08	**Date Collected**	: 06/18/24 16:47
Client ID	: MW-8A	**Date Received**	: 06/19/24
Sample Location	: MANORVILLE, NY	**Date Analyzed**	: 06/24/24 21:51
Sample Matrix	: WATER	**Date Extracted**	: 06/23/24
Analytical Method	: 1,8270E	**Dilution Factor**	: 1
Lab File ID	: 34679-08	**Analyst**	: JG
Sample Amount	: 275 ml	**Instrument ID**	: DAKOTA
Extraction Method	: EPA 3510C	**GC Column**	: RTX5-MS
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
58-90-2	2,3,4,6-Tetrachlorophenol	ND	5.0	0.84	U

Results Summary
Form 1
Semivolatile Organics by GC/MS

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Lab ID	: L2434679-09	**Date Collected**	: 06/18/24 18:25
Client ID	: MW-8B	**Date Received**	: 06/19/24
Sample Location	: MANORVILLE, NY	**Date Analyzed**	: 06/24/24 22:14
Sample Matrix	: WATER	**Date Extracted**	: 06/23/24
Analytical Method	: 1,8270E	**Dilution Factor**	: 1
Lab File ID	: 34679-09	**Analyst**	: JG
Sample Amount	: 275 ml	**Instrument ID**	: DAKOTA
Extraction Method	: EPA 3510C	**GC Column**	: RTX5-MS
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
111-44-4	Bis(2-chloroethyl)ether	ND	2.0	0.50	U
91-94-1	3,3'-Dichlorobenzidine	ND	5.0	1.6	U
121-14-2	2,4-Dinitrotoluene	ND	5.0	1.2	U
606-20-2	2,6-Dinitrotoluene	ND	5.0	0.93	U
7005-72-3	4-Chlorophenyl phenyl ether	ND	2.0	0.49	U
101-55-3	4-Bromophenyl phenyl ether	ND	2.0	0.38	U
108-60-1	Bis(2-chloroisopropyl)ether	ND	2.0	0.53	U
111-91-1	Bis(2-chloroethoxy)methane	ND	5.0	0.50	U
77-47-4	Hexachlorocyclopentadiene	ND	20	0.69	U
78-59-1	Isophorone	ND	5.0	1.2	U
98-95-3	Nitrobenzene	ND	2.0	0.77	U
86-30-6	NDPA/DPA	ND	2.0	0.42	U
621-64-7	n-Nitrosodi-n-propylamine	ND	5.0	0.64	U
117-81-7	Bis(2-ethylhexyl)phthalate	ND	3.0	1.5	U
85-68-7	Butyl benzyl phthalate	ND	5.0	1.2	U
84-74-2	Di-n-butylphthalate	ND	5.0	0.39	U
117-84-0	Di-n-octylphthalate	ND	5.0	1.3	U
84-66-2	Diethyl phthalate	ND	5.0	0.38	U
131-11-3	Dimethyl phthalate	ND	5.0	1.8	U
92-52-4	Biphenyl	ND	2.0	0.46	U
106-47-8	4-Chloroaniline	ND	5.0	1.1	U
88-74-4	2-Nitroaniline	ND	5.0	0.50	U

Results Summary
Form 1
Semivolatile Organics by GC/MS

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Lab ID	: L2434679-09	**Date Collected**	: 06/18/24 18:25
Client ID	: MW-8B	**Date Received**	: 06/19/24
Sample Location	: MANORVILLE, NY	**Date Analyzed**	: 06/24/24 22:14
Sample Matrix	: WATER	**Date Extracted**	: 06/23/24
Analytical Method	: 1,8270E	**Dilution Factor**	: 1
Lab File ID	: 34679-09	**Analyst**	: JG
Sample Amount	: 275 ml	**Instrument ID**	: DAKOTA
Extraction Method	: EPA 3510C	**GC Column**	: RTX5-MS
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
99-09-2	3-Nitroaniline	ND	5.0	0.81	U
100-01-6	4-Nitroaniline	ND	5.0	0.80	U
132-64-9	Dibenzofuran	ND	2.0	0.50	U
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	10	0.44	U
98-86-2	Acetophenone	ND	5.0	0.53	U
88-06-2	2,4,6-Trichlorophenol	ND	5.0	0.61	U
59-50-7	p-Chloro-m-cresol	ND	2.0	0.35	U
95-57-8	2-Chlorophenol	ND	2.0	0.48	U
120-83-2	2,4-Dichlorophenol	ND	5.0	0.41	U
105-67-9	2,4-Dimethylphenol	ND	5.0	1.8	U
88-75-5	2-Nitrophenol	ND	10	0.85	U
100-02-7	4-Nitrophenol	ND	10	0.67	U
51-28-5	2,4-Dinitrophenol	ND	20	6.6	U
534-52-1	4,6-Dinitro-o-cresol	ND	10	1.8	U
108-95-2	Phenol	ND	5.0	0.57	U
95-48-7	2-Methylphenol	ND	5.0	0.49	U
108-39-4/106-44-5	3-Methylphenol/4-Methylphenol	ND	5.0	0.48	U
95-95-4	2,4,5-Trichlorophenol	ND	5.0	0.77	U
86-74-8	Carbazole	ND	2.0	0.49	U
1912-24-9	Atrazine	ND	10	0.76	U
100-52-7	Benzaldehyde	ND	5.0	0.53	U
105-60-2	Caprolactam	ND	10	3.3	U

Results Summary
Form 1
Semivolatile Organics by GC/MS

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Lab ID	: L2434679-09	**Date Collected**	: 06/18/24 18:25
Client ID	: MW-8B	**Date Received**	: 06/19/24
Sample Location	: MANORVILLE, NY	**Date Analyzed**	: 06/24/24 22:14
Sample Matrix	: WATER	**Date Extracted**	: 06/23/24
Analytical Method	: 1,8270E	**Dilution Factor**	: 1
Lab File ID	: 34679-09	**Analyst**	: JG
Sample Amount	: 275 ml	**Instrument ID**	: DAKOTA
Extraction Method	: EPA 3510C	**GC Column**	: RTX5-MS
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
58-90-2	2,3,4,6-Tetrachlorophenol	ND	5.0	0.84	U

Results Summary
Form 1
Semivolatile Organics by GC/MS

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Lab ID	: L2434679-10	**Date Collected**	: 06/19/24 11:00
Client ID	: MW-9B	**Date Received**	: 06/19/24
Sample Location	: MANORVILLE, NY	**Date Analyzed**	: 06/25/24 12:35
Sample Matrix	: WATER	**Date Extracted**	: 06/24/24
Analytical Method	: 1,8270E	**Dilution Factor**	: 1
Lab File ID	: 34679-10	**Analyst**	: LJG
Sample Amount	: 275 ml	**Instrument ID**	: DAKOTA
Extraction Method	: EPA 3510C	**GC Column**	: RTX5-MS
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
111-44-4	Bis(2-chloroethyl)ether	ND	2.0	0.50	U
91-94-1	3,3'-Dichlorobenzidine	ND	5.0	1.6	U
121-14-2	2,4-Dinitrotoluene	ND	5.0	1.2	U
606-20-2	2,6-Dinitrotoluene	ND	5.0	0.93	U
7005-72-3	4-Chlorophenyl phenyl ether	ND	2.0	0.49	U
101-55-3	4-Bromophenyl phenyl ether	ND	2.0	0.38	U
108-60-1	Bis(2-chloroisopropyl)ether	ND	2.0	0.53	U
111-91-1	Bis(2-chloroethoxy)methane	ND	5.0	0.50	U
77-47-4	Hexachlorocyclopentadiene	ND	20	0.69	U
78-59-1	Isophorone	ND	5.0	1.2	U
98-95-3	Nitrobenzene	ND	2.0	0.77	U
86-30-6	NDPA/DPA	ND	2.0	0.42	U
621-64-7	n-Nitrosodi-n-propylamine	ND	5.0	0.64	U
117-81-7	Bis(2-ethylhexyl)phthalate	ND	3.0	1.5	U
85-68-7	Butyl benzyl phthalate	ND	5.0	1.2	U
84-74-2	Di-n-butylphthalate	ND	5.0	0.39	U
117-84-0	Di-n-octylphthalate	ND	5.0	1.3	U
84-66-2	Diethyl phthalate	ND	5.0	0.38	U
131-11-3	Dimethyl phthalate	ND	5.0	1.8	U
92-52-4	Biphenyl	ND	2.0	0.46	U
106-47-8	4-Chloroaniline	ND	5.0	1.1	U
88-74-4	2-Nitroaniline	ND	5.0	0.50	U

Results Summary
Form 1
Semivolatile Organics by GC/MS

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Lab ID	: L2434679-10	**Date Collected**	: 06/19/24 11:00
Client ID	: MW-9B	**Date Received**	: 06/19/24
Sample Location	: MANORVILLE, NY	**Date Analyzed**	: 06/25/24 12:35
Sample Matrix	: WATER	**Date Extracted**	: 06/24/24
Analytical Method	: 1,8270E	**Dilution Factor**	: 1
Lab File ID	: 34679-10	**Analyst**	: LJG
Sample Amount	: 275 ml	**Instrument ID**	: DAKOTA
Extraction Method	: EPA 3510C	**GC Column**	: RTX5-MS
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
99-09-2	3-Nitroaniline	ND	5.0	0.81	U
100-01-6	4-Nitroaniline	ND	5.0	0.80	U
132-64-9	Dibenzofuran	ND	2.0	0.50	U
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	10	0.44	U
98-86-2	Acetophenone	ND	5.0	0.53	U
88-06-2	2,4,6-Trichlorophenol	ND	5.0	0.61	U
59-50-7	p-Chloro-m-cresol	ND	2.0	0.35	U
95-57-8	2-Chlorophenol	ND	2.0	0.48	U
120-83-2	2,4-Dichlorophenol	ND	5.0	0.41	U
105-67-9	2,4-Dimethylphenol	ND	5.0	1.8	U
88-75-5	2-Nitrophenol	ND	10	0.85	U
100-02-7	4-Nitrophenol	ND	10	0.67	U
51-28-5	2,4-Dinitrophenol	ND	20	6.6	U
534-52-1	4,6-Dinitro-o-cresol	ND	10	1.8	U
108-95-2	Phenol	ND	5.0	0.57	U
95-48-7	2-Methylphenol	ND	5.0	0.49	U
108-39-4/106-44-5	3-Methylphenol/4-Methylphenol	ND	5.0	0.48	U
95-95-4	2,4,5-Trichlorophenol	ND	5.0	0.77	U
86-74-8	Carbazole	ND	2.0	0.49	U
1912-24-9	Atrazine	ND	10	0.76	U
100-52-7	Benzaldehyde	ND	5.0	0.53	U
105-60-2	Caprolactam	ND	10	3.3	U

Results Summary
Form 1
Semivolatile Organics by GC/MS

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Lab ID	: L2434679-10	**Date Collected**	: 06/19/24 11:00
Client ID	: MW-9B	**Date Received**	: 06/19/24
Sample Location	: MANORVILLE, NY	**Date Analyzed**	: 06/25/24 12:35
Sample Matrix	: WATER	**Date Extracted**	: 06/24/24
Analytical Method	: 1,8270E	**Dilution Factor**	: 1
Lab File ID	: 34679-10	**Analyst**	: LJG
Sample Amount	: 275 ml	**Instrument ID**	: DAKOTA
Extraction Method	: EPA 3510C	**GC Column**	: RTX5-MS
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
58-90-2	2,3,4,6-Tetrachlorophenol	ND	5.0	0.84	U

Results Summary
Form 1
Semivolatile Organics by GC/MS

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Lab ID	: L2434679-11	**Date Collected**	: 06/18/24 00:00
Client ID	: DUP	**Date Received**	: 06/19/24
Sample Location	: MANORVILLE, NY	**Date Analyzed**	: 06/24/24 22:37
Sample Matrix	: WATER	**Date Extracted**	: 06/23/24
Analytical Method	: 1,8270E	**Dilution Factor**	: 1
Lab File ID	: 34679-11	**Analyst**	: JG
Sample Amount	: 275 ml	**Instrument ID**	: DAKOTA
Extraction Method	: EPA 3510C	**GC Column**	: RTX5-MS
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
111-44-4	Bis(2-chloroethyl)ether	ND	2.0	0.50	U
91-94-1	3,3'-Dichlorobenzidine	ND	5.0	1.6	U
121-14-2	2,4-Dinitrotoluene	ND	5.0	1.2	U
606-20-2	2,6-Dinitrotoluene	ND	5.0	0.93	U
7005-72-3	4-Chlorophenyl phenyl ether	ND	2.0	0.49	U
101-55-3	4-Bromophenyl phenyl ether	ND	2.0	0.38	U
108-60-1	Bis(2-chloroisopropyl)ether	ND	2.0	0.53	U
111-91-1	Bis(2-chloroethoxy)methane	ND	5.0	0.50	U
77-47-4	Hexachlorocyclopentadiene	ND	20	0.69	U
78-59-1	Isophorone	ND	5.0	1.2	U
98-95-3	Nitrobenzene	ND	2.0	0.77	U
86-30-6	NDPA/DPA	ND	2.0	0.42	U
621-64-7	n-Nitrosodi-n-propylamine	ND	5.0	0.64	U
117-81-7	Bis(2-ethylhexyl)phthalate	ND	3.0	1.5	U
85-68-7	Butyl benzyl phthalate	ND	5.0	1.2	U
84-74-2	Di-n-butylphthalate	ND	5.0	0.39	U
117-84-0	Di-n-octylphthalate	ND	5.0	1.3	U
84-66-2	Diethyl phthalate	ND	5.0	0.38	U
131-11-3	Dimethyl phthalate	ND	5.0	1.8	U
92-52-4	Biphenyl	ND	2.0	0.46	U
106-47-8	4-Chloroaniline	ND	5.0	1.1	U
88-74-4	2-Nitroaniline	ND	5.0	0.50	U

Results Summary
Form 1
Semivolatile Organics by GC/MS

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Lab ID	: L2434679-11	**Date Collected**	: 06/18/24 00:00
Client ID	: DUP	**Date Received**	: 06/19/24
Sample Location	: MANORVILLE, NY	**Date Analyzed**	: 06/24/24 22:37
Sample Matrix	: WATER	**Date Extracted**	: 06/23/24
Analytical Method	: 1,8270E	**Dilution Factor**	: 1
Lab File ID	: 34679-11	**Analyst**	: JG
Sample Amount	: 275 ml	**Instrument ID**	: DAKOTA
Extraction Method	: EPA 3510C	**GC Column**	: RTX5-MS
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
99-09-2	3-Nitroaniline	ND	5.0	0.81	U
100-01-6	4-Nitroaniline	ND	5.0	0.80	U
132-64-9	Dibenzofuran	ND	2.0	0.50	U
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	10	0.44	U
98-86-2	Acetophenone	ND	5.0	0.53	U
88-06-2	2,4,6-Trichlorophenol	ND	5.0	0.61	U
59-50-7	p-Chloro-m-cresol	ND	2.0	0.35	U
95-57-8	2-Chlorophenol	ND	2.0	0.48	U
120-83-2	2,4-Dichlorophenol	ND	5.0	0.41	U
105-67-9	2,4-Dimethylphenol	ND	5.0	1.8	U
88-75-5	2-Nitrophenol	ND	10	0.85	U
100-02-7	4-Nitrophenol	ND	10	0.67	U
51-28-5	2,4-Dinitrophenol	ND	20	6.6	U
534-52-1	4,6-Dinitro-o-cresol	ND	10	1.8	U
108-95-2	Phenol	ND	5.0	0.57	U
95-48-7	2-Methylphenol	ND	5.0	0.49	U
108-39-4/106-44-5	3-Methylphenol/4-Methylphenol	ND	5.0	0.48	U
95-95-4	2,4,5-Trichlorophenol	ND	5.0	0.77	U
86-74-8	Carbazole	ND	2.0	0.49	U
1912-24-9	Atrazine	ND	10	0.76	U
100-52-7	Benzaldehyde	ND	5.0	0.53	U
105-60-2	Caprolactam	ND	10	3.3	U

Results Summary
Form 1
Semivolatile Organics by GC/MS

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Lab ID	: L2434679-11	**Date Collected**	: 06/18/24 00:00
Client ID	: DUP	**Date Received**	: 06/19/24
Sample Location	: MANORVILLE, NY	**Date Analyzed**	: 06/24/24 22:37
Sample Matrix	: WATER	**Date Extracted**	: 06/23/24
Analytical Method	: 1,8270E	**Dilution Factor**	: 1
Lab File ID	: 34679-11	**Analyst**	: JG
Sample Amount	: 275 ml	**Instrument ID**	: DAKOTA
Extraction Method	: EPA 3510C	**GC Column**	: RTX5-MS
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
58-90-2	2,3,4,6-Tetrachlorophenol	ND	5.0	0.84	U

Results Summary
Form 1
Semivolatile Organics by GC/MS

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Lab ID	: L2434679-12	**Date Collected**	: 06/18/24 19:00
Client ID	: EB	**Date Received**	: 06/19/24
Sample Location	: MANORVILLE, NY	**Date Analyzed**	: 06/24/24 22:59
Sample Matrix	: WATER	**Date Extracted**	: 06/23/24
Analytical Method	: 1,8270E	**Dilution Factor**	: 1
Lab File ID	: 34679-12	**Analyst**	: JG
Sample Amount	: 275 ml	**Instrument ID**	: DAKOTA
Extraction Method	: EPA 3510C	**GC Column**	: RTX5-MS
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
111-44-4	Bis(2-chloroethyl)ether	ND	2.0	0.50	U
91-94-1	3,3'-Dichlorobenzidine	ND	5.0	1.6	U
121-14-2	2,4-Dinitrotoluene	ND	5.0	1.2	U
606-20-2	2,6-Dinitrotoluene	ND	5.0	0.93	U
7005-72-3	4-Chlorophenyl phenyl ether	ND	2.0	0.49	U
101-55-3	4-Bromophenyl phenyl ether	ND	2.0	0.38	U
108-60-1	Bis(2-chloroisopropyl)ether	ND	2.0	0.53	U
111-91-1	Bis(2-chloroethoxy)methane	ND	5.0	0.50	U
77-47-4	Hexachlorocyclopentadiene	ND	20	0.69	U
78-59-1	Isophorone	ND	5.0	1.2	U
98-95-3	Nitrobenzene	ND	2.0	0.77	U
86-30-6	NDPA/DPA	ND	2.0	0.42	U
621-64-7	n-Nitrosodi-n-propylamine	ND	5.0	0.64	U
117-81-7	Bis(2-ethylhexyl)phthalate	ND	3.0	1.5	U
85-68-7	Butyl benzyl phthalate	ND	5.0	1.2	U
84-74-2	Di-n-butylphthalate	ND	5.0	0.39	U
117-84-0	Di-n-octylphthalate	ND	5.0	1.3	U
84-66-2	Diethyl phthalate	ND	5.0	0.38	U
131-11-3	Dimethyl phthalate	ND	5.0	1.8	U
92-52-4	Biphenyl	ND	2.0	0.46	U
106-47-8	4-Chloroaniline	ND	5.0	1.1	U
88-74-4	2-Nitroaniline	ND	5.0	0.50	U

Results Summary
Form 1
Semivolatile Organics by GC/MS

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Lab ID	: L2434679-12	**Date Collected**	: 06/18/24 19:00
Client ID	: EB	**Date Received**	: 06/19/24
Sample Location	: MANORVILLE, NY	**Date Analyzed**	: 06/24/24 22:59
Sample Matrix	: WATER	**Date Extracted**	: 06/23/24
Analytical Method	: 1,8270E	**Dilution Factor**	: 1
Lab File ID	: 34679-12	**Analyst**	: JG
Sample Amount	: 275 ml	**Instrument ID**	: DAKOTA
Extraction Method	: EPA 3510C	**GC Column**	: RTX5-MS
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
99-09-2	3-Nitroaniline	ND	5.0	0.81	U
100-01-6	4-Nitroaniline	ND	5.0	0.80	U
132-64-9	Dibenzofuran	ND	2.0	0.50	U
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	10	0.44	U
98-86-2	Acetophenone	ND	5.0	0.53	U
88-06-2	2,4,6-Trichlorophenol	ND	5.0	0.61	U
59-50-7	p-Chloro-m-cresol	ND	2.0	0.35	U
95-57-8	2-Chlorophenol	ND	2.0	0.48	U
120-83-2	2,4-Dichlorophenol	ND	5.0	0.41	U
105-67-9	2,4-Dimethylphenol	ND	5.0	1.8	U
88-75-5	2-Nitrophenol	ND	10	0.85	U
100-02-7	4-Nitrophenol	ND	10	0.67	U
51-28-5	2,4-Dinitrophenol	ND	20	6.6	U
534-52-1	4,6-Dinitro-o-cresol	ND	10	1.8	U
108-95-2	Phenol	ND	5.0	0.57	U
95-48-7	2-Methylphenol	ND	5.0	0.49	U
108-39-4/106-44-5	3-Methylphenol/4-Methylphenol	ND	5.0	0.48	U
95-95-4	2,4,5-Trichlorophenol	ND	5.0	0.77	U
86-74-8	Carbazole	ND	2.0	0.49	U
1912-24-9	Atrazine	ND	10	0.76	U
100-52-7	Benzaldehyde	ND	5.0	0.53	U
105-60-2	Caprolactam	ND	10	3.3	U

Results Summary
Form 1
Semivolatile Organics by GC/MS

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Lab ID	: L2434679-12	**Date Collected**	: 06/18/24 19:00
Client ID	: EB	**Date Received**	: 06/19/24
Sample Location	: MANORVILLE, NY	**Date Analyzed**	: 06/24/24 22:59
Sample Matrix	: WATER	**Date Extracted**	: 06/23/24
Analytical Method	: 1,8270E	**Dilution Factor**	: 1
Lab File ID	: 34679-12	**Analyst**	: JG
Sample Amount	: 275 ml	**Instrument ID**	: DAKOTA
Extraction Method	: EPA 3510C	**GC Column**	: RTX5-MS
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
58-90-2	2,3,4,6-Tetrachlorophenol	ND	5.0	0.84	U

Results Summary
Form 1
Semivolatile Organics by GC/MS

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Lab ID	: L2434679-14	**Date Collected**	: 06/18/24 18:07
Client ID	: MW-8B2	**Date Received**	: 06/19/24
Sample Location	: MANORVILLE, NY	**Date Analyzed**	: 06/24/24 23:22
Sample Matrix	: WATER	**Date Extracted**	: 06/23/24
Analytical Method	: 1,8270E	**Dilution Factor**	: 1
Lab File ID	: 34679-14	**Analyst**	: JG
Sample Amount	: 275 ml	**Instrument ID**	: DAKOTA
Extraction Method	: EPA 3510C	**GC Column**	: RTX5-MS
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
111-44-4	Bis(2-chloroethyl)ether	ND	2.0	0.50	U
91-94-1	3,3'-Dichlorobenzidine	ND	5.0	1.6	U
121-14-2	2,4-Dinitrotoluene	ND	5.0	1.2	U
606-20-2	2,6-Dinitrotoluene	ND	5.0	0.93	U
7005-72-3	4-Chlorophenyl phenyl ether	ND	2.0	0.49	U
101-55-3	4-Bromophenyl phenyl ether	ND	2.0	0.38	U
108-60-1	Bis(2-chloroisopropyl)ether	ND	2.0	0.53	U
111-91-1	Bis(2-chloroethoxy)methane	ND	5.0	0.50	U
77-47-4	Hexachlorocyclopentadiene	ND	20	0.69	U
78-59-1	Isophorone	ND	5.0	1.2	U
98-95-3	Nitrobenzene	ND	2.0	0.77	U
86-30-6	NDPA/DPA	ND	2.0	0.42	U
621-64-7	n-Nitrosodi-n-propylamine	ND	5.0	0.64	U
117-81-7	Bis(2-ethylhexyl)phthalate	ND	3.0	1.5	U
85-68-7	Butyl benzyl phthalate	ND	5.0	1.2	U
84-74-2	Di-n-butylphthalate	ND	5.0	0.39	U
117-84-0	Di-n-octylphthalate	ND	5.0	1.3	U
84-66-2	Diethyl phthalate	ND	5.0	0.38	U
131-11-3	Dimethyl phthalate	ND	5.0	1.8	U
92-52-4	Biphenyl	ND	2.0	0.46	U
106-47-8	4-Chloroaniline	ND	5.0	1.1	U
88-74-4	2-Nitroaniline	ND	5.0	0.50	U

Results Summary
Form 1
Semivolatile Organics by GC/MS

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Lab ID	: L2434679-14	**Date Collected**	: 06/18/24 18:07
Client ID	: MW-8B2	**Date Received**	: 06/19/24
Sample Location	: MANORVILLE, NY	**Date Analyzed**	: 06/24/24 23:22
Sample Matrix	: WATER	**Date Extracted**	: 06/23/24
Analytical Method	: 1,8270E	**Dilution Factor**	: 1
Lab File ID	: 34679-14	**Analyst**	: JG
Sample Amount	: 275 ml	**Instrument ID**	: DAKOTA
Extraction Method	: EPA 3510C	**GC Column**	: RTX5-MS
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
99-09-2	3-Nitroaniline	ND	5.0	0.81	U
100-01-6	4-Nitroaniline	ND	5.0	0.80	U
132-64-9	Dibenzofuran	ND	2.0	0.50	U
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	10	0.44	U
98-86-2	Acetophenone	ND	5.0	0.53	U
88-06-2	2,4,6-Trichlorophenol	ND	5.0	0.61	U
59-50-7	p-Chloro-m-cresol	ND	2.0	0.35	U
95-57-8	2-Chlorophenol	ND	2.0	0.48	U
120-83-2	2,4-Dichlorophenol	ND	5.0	0.41	U
105-67-9	2,4-Dimethylphenol	ND	5.0	1.8	U
88-75-5	2-Nitrophenol	ND	10	0.85	U
100-02-7	4-Nitrophenol	ND	10	0.67	U
51-28-5	2,4-Dinitrophenol	ND	20	6.6	U
534-52-1	4,6-Dinitro-o-cresol	ND	10	1.8	U
108-95-2	Phenol	ND	5.0	0.57	U
95-48-7	2-Methylphenol	ND	5.0	0.49	U
108-39-4/106-44-5	3-Methylphenol/4-Methylphenol	ND	5.0	0.48	U
95-95-4	2,4,5-Trichlorophenol	ND	5.0	0.77	U
86-74-8	Carbazole	ND	2.0	0.49	U
1912-24-9	Atrazine	ND	10	0.76	U
100-52-7	Benzaldehyde	ND	5.0	0.53	U
105-60-2	Caprolactam	ND	10	3.3	U

Results Summary
Form 1
Semivolatile Organics by GC/MS

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Lab ID	: L2434679-14	**Date Collected**	: 06/18/24 18:07
Client ID	: MW-8B2	**Date Received**	: 06/19/24
Sample Location	: MANORVILLE, NY	**Date Analyzed**	: 06/24/24 23:22
Sample Matrix	: WATER	**Date Extracted**	: 06/23/24
Analytical Method	: 1,8270E	**Dilution Factor**	: 1
Lab File ID	: 34679-14	**Analyst**	: JG
Sample Amount	: 275 ml	**Instrument ID**	: DAKOTA
Extraction Method	: EPA 3510C	**GC Column**	: RTX5-MS
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
58-90-2	2,3,4,6-Tetrachlorophenol	ND	5.0	0.84	U

Results Summary
Form 1
Semivolatile Organics by GC/MS

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Lab ID	: WG1938279-1	**Date Collected**	: NA
Client ID	: WG1938279-1BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 06/24/24 16:37
Sample Matrix	: WATER	**Date Extracted**	: 06/23/24
Analytical Method	: 1,8270E	**Dilution Factor**	: 1
Lab File ID	: 938279-1	**Analyst**	: JG
Sample Amount	: 275 ml	**Instrument ID**	: DAKOTA
Extraction Method	: EPA 3510C	**GC Column**	: RTX5-MS
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
111-44-4	Bis(2-chloroethyl)ether	ND	2.0	0.50	U
91-94-1	3,3'-Dichlorobenzidine	ND	5.0	1.6	U
121-14-2	2,4-Dinitrotoluene	ND	5.0	1.2	U
606-20-2	2,6-Dinitrotoluene	ND	5.0	0.93	U
7005-72-3	4-Chlorophenyl phenyl ether	ND	2.0	0.49	U
101-55-3	4-Bromophenyl phenyl ether	ND	2.0	0.38	U
108-60-1	Bis(2-chloroisopropyl)ether	ND	2.0	0.53	U
111-91-1	Bis(2-chloroethoxy)methane	ND	5.0	0.50	U
77-47-4	Hexachlorocyclopentadiene	ND	20	0.69	U
78-59-1	Isophorone	ND	5.0	1.2	U
98-95-3	Nitrobenzene	ND	2.0	0.77	U
86-30-6	NDPA/DPA	ND	2.0	0.42	U
621-64-7	n-Nitrosodi-n-propylamine	ND	5.0	0.64	U
117-81-7	Bis(2-ethylhexyl)phthalate	ND	3.0	1.5	U
85-68-7	Butyl benzyl phthalate	ND	5.0	1.2	U
84-74-2	Di-n-butylphthalate	ND	5.0	0.39	U
117-84-0	Di-n-octylphthalate	ND	5.0	1.3	U
84-66-2	Diethyl phthalate	ND	5.0	0.38	U
131-11-3	Dimethyl phthalate	ND	5.0	1.8	U
92-52-4	Biphenyl	ND	2.0	0.46	U
106-47-8	4-Chloroaniline	ND	5.0	1.1	U
88-74-4	2-Nitroaniline	ND	5.0	0.50	U

Results Summary
Form 1
Semivolatile Organics by GC/MS

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Lab ID	: WG1938279-1	**Date Collected**	: NA
Client ID	: WG1938279-1BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 06/24/24 16:37
Sample Matrix	: WATER	**Date Extracted**	: 06/23/24
Analytical Method	: 1,8270E	**Dilution Factor**	: 1
Lab File ID	: 938279-1	**Analyst**	: JG
Sample Amount	: 275 ml	**Instrument ID**	: DAKOTA
Extraction Method	: EPA 3510C	**GC Column**	: RTX5-MS
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
99-09-2	3-Nitroaniline	ND	5.0	0.81	U
100-01-6	4-Nitroaniline	ND	5.0	0.80	U
132-64-9	Dibenzofuran	ND	2.0	0.50	U
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	10	0.44	U
98-86-2	Acetophenone	ND	5.0	0.53	U
88-06-2	2,4,6-Trichlorophenol	ND	5.0	0.61	U
59-50-7	p-Chloro-m-cresol	ND	2.0	0.35	U
95-57-8	2-Chlorophenol	ND	2.0	0.48	U
120-83-2	2,4-Dichlorophenol	ND	5.0	0.41	U
105-67-9	2,4-Dimethylphenol	ND	5.0	1.8	U
88-75-5	2-Nitrophenol	ND	10	0.85	U
100-02-7	4-Nitrophenol	ND	10	0.67	U
51-28-5	2,4-Dinitrophenol	ND	20	6.6	U
534-52-1	4,6-Dinitro-o-cresol	ND	10	1.8	U
108-95-2	Phenol	ND	5.0	0.57	U
95-48-7	2-Methylphenol	ND	5.0	0.49	U
108-39-4/106-44-5	3-Methylphenol/4-Methylphenol	ND	5.0	0.48	U
95-95-4	2,4,5-Trichlorophenol	ND	5.0	0.77	U
86-74-8	Carbazole	ND	2.0	0.49	U
1912-24-9	Atrazine	ND	10	0.76	U
100-52-7	Benzaldehyde	ND	5.0	0.53	U
105-60-2	Caprolactam	ND	10	3.3	U

Results Summary
Form 1
Semivolatile Organics by GC/MS

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Lab ID	: WG1938279-1	**Date Collected**	: NA
Client ID	: WG1938279-1BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 06/24/24 16:37
Sample Matrix	: WATER	**Date Extracted**	: 06/23/24
Analytical Method	: 1,8270E	**Dilution Factor**	: 1
Lab File ID	: 938279-1	**Analyst**	: JG
Sample Amount	: 275 ml	**Instrument ID**	: DAKOTA
Extraction Method	: EPA 3510C	**GC Column**	: RTX5-MS
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
58-90-2	2,3,4,6-Tetrachlorophenol	ND	5.0	0.84	U

Results Summary
Form 1
Semivolatile Organics by GC/MS

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Lab ID	: WG1938723-1	**Date Collected**	: NA
Client ID	: WG1938723-1BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 06/25/24 10:18
Sample Matrix	: WATER	**Date Extracted**	: 06/24/24
Analytical Method	: 1,8270E	**Dilution Factor**	: 1
Lab File ID	: 938723-1	**Analyst**	: LJG
Sample Amount	: 275 ml	**Instrument ID**	: DAKOTA
Extraction Method	: EPA 3510C	**GC Column**	: RTX5-MS
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
111-44-4	Bis(2-chloroethyl)ether	ND	2.0	0.50	U
91-94-1	3,3'-Dichlorobenzidine	ND	5.0	1.6	U
121-14-2	2,4-Dinitrotoluene	ND	5.0	1.2	U
606-20-2	2,6-Dinitrotoluene	ND	5.0	0.93	U
7005-72-3	4-Chlorophenyl phenyl ether	ND	2.0	0.49	U
101-55-3	4-Bromophenyl phenyl ether	ND	2.0	0.38	U
108-60-1	Bis(2-chloroisopropyl)ether	ND	2.0	0.53	U
111-91-1	Bis(2-chloroethoxy)methane	ND	5.0	0.50	U
77-47-4	Hexachlorocyclopentadiene	ND	20	0.69	U
78-59-1	Isophorone	ND	5.0	1.2	U
98-95-3	Nitrobenzene	ND	2.0	0.77	U
86-30-6	NDPA/DPA	ND	2.0	0.42	U
621-64-7	n-Nitrosodi-n-propylamine	ND	5.0	0.64	U
117-81-7	Bis(2-ethylhexyl)phthalate	ND	3.0	1.5	U
85-68-7	Butyl benzyl phthalate	ND	5.0	1.2	U
84-74-2	Di-n-butylphthalate	ND	5.0	0.39	U
117-84-0	Di-n-octylphthalate	ND	5.0	1.3	U
84-66-2	Diethyl phthalate	ND	5.0	0.38	U
131-11-3	Dimethyl phthalate	ND	5.0	1.8	U
92-52-4	Biphenyl	ND	2.0	0.46	U
106-47-8	4-Chloroaniline	ND	5.0	1.1	U
88-74-4	2-Nitroaniline	ND	5.0	0.50	U

Results Summary
Form 1
Semivolatile Organics by GC/MS

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Lab ID	: WG1938723-1	**Date Collected**	: NA
Client ID	: WG1938723-1BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 06/25/24 10:18
Sample Matrix	: WATER	**Date Extracted**	: 06/24/24
Analytical Method	: 1,8270E	**Dilution Factor**	: 1
Lab File ID	: 938723-1	**Analyst**	: LJG
Sample Amount	: 275 ml	**Instrument ID**	: DAKOTA
Extraction Method	: EPA 3510C	**GC Column**	: RTX5-MS
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
99-09-2	3-Nitroaniline	ND	5.0	0.81	U
100-01-6	4-Nitroaniline	ND	5.0	0.80	U
132-64-9	Dibenzofuran	ND	2.0	0.50	U
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	10	0.44	U
98-86-2	Acetophenone	ND	5.0	0.53	U
88-06-2	2,4,6-Trichlorophenol	ND	5.0	0.61	U
59-50-7	p-Chloro-m-cresol	ND	2.0	0.35	U
95-57-8	2-Chlorophenol	ND	2.0	0.48	U
120-83-2	2,4-Dichlorophenol	ND	5.0	0.41	U
105-67-9	2,4-Dimethylphenol	ND	5.0	1.8	U
88-75-5	2-Nitrophenol	ND	10	0.85	U
100-02-7	4-Nitrophenol	ND	10	0.67	U
51-28-5	2,4-Dinitrophenol	ND	20	6.6	U
534-52-1	4,6-Dinitro-o-cresol	ND	10	1.8	U
108-95-2	Phenol	ND	5.0	0.57	U
95-48-7	2-Methylphenol	ND	5.0	0.49	U
108-39-4/106-44-5	3-Methylphenol/4-Methylphenol	ND	5.0	0.48	U
95-95-4	2,4,5-Trichlorophenol	ND	5.0	0.77	U
86-74-8	Carbazole	ND	2.0	0.49	U
1912-24-9	Atrazine	ND	10	0.76	U
100-52-7	Benzaldehyde	ND	5.0	0.53	U
105-60-2	Caprolactam	ND	10	3.3	U

Results Summary
Form 1
Semivolatile Organics by GC/MS

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Lab ID	: WG1938723-1	**Date Collected**	: NA
Client ID	: WG1938723-1BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 06/25/24 10:18
Sample Matrix	: WATER	**Date Extracted**	: 06/24/24
Analytical Method	: 1,8270E	**Dilution Factor**	: 1
Lab File ID	: 938723-1	**Analyst**	: LJG
Sample Amount	: 275 ml	**Instrument ID**	: DAKOTA
Extraction Method	: EPA 3510C	**GC Column**	: RTX5-MS
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
58-90-2	2,3,4,6-Tetrachlorophenol	ND	5.0	0.84	U

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\240624RVT\
Data File : 34679-03.D
Acq On : 24 Jun 2024 7:59 pm
Operator : Dakota:jg
Sample : L2434679-03,32,,HNY
Misc : WG1938645,WG1938279,ical21225
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Jun 25 20:24:54 2024
Quant Method : I:\8270\Dakota\240624RVT\FS240618RVT_14D_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Jun 25 20:11:47 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\240624RVT\ABN0624.D
: 2 - I:\8270\Dakota\240624RVT\ADP0624.D
: 3 - I:\8270\Dakota\240624RVT\AP90624.D
Sub List : 8270TCL_combo_REV1 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) IS1_1,4-Dichlorobenzen...	4.505	152	24826	4.000	ug/ml	0.00
Standard Area 1 = 25255			Recovery = 98.30%			
27) IS2_1,4-Dichlorobenzen...	4.505	152	24826	4.000	ug/ml	0.00
Standard Area 3 = 26504			Recovery = 93.67%			
35) IS1_Naphthalene-d8	5.739	136	90098	4.000	ug/ml	0.00
Standard Area 1 = 92102			Recovery = 97.82%			
55) IS2_Naphthalene-d8	5.739	136	90098	4.000	ug/ml	0.00
Standard Area 3 = 100155			Recovery = 89.96%			
63) IS1_Acenaphthene-d10	7.432	164	60042	4.000	ug/ml	0.00
Standard Area 1 = 69151			Recovery = 86.83%			
83) IS2_Acenaphthene-d10	7.432	164	60042	4.000	ug/ml	0.00
Standard Area 3 = 69129			Recovery = 86.86%			
86) IS3_Acenaphthene-d10	7.432	164	60042	4.000	ug/ml	0.00
Standard Area 2 = 63201			Recovery = 95.00%			
88) IS1_Phenanthrene-d10	8.856	188	140707	4.000	ug/ml	0.00
Standard Area 1 = 156078			Recovery = 90.15%			
100) IS3_Phenanthrene-d10	8.856	188	140707	4.000	ug/ml	0.00
Standard Area 2 = 157977			Recovery = 89.07%			
104) IS1_Chrysene-d12	11.457	240	142351	4.000	ug/ml	0.00
Standard Area 1 = 161664			Recovery = 88.05%			
113) IS1_Perylene-d12	12.900	264	171262	4.000	ug/ml	0.00
Standard Area 1 = 190313			Recovery = 89.99%			
System Monitoring Compounds						
4) 2-Fluorophenol	3.230	112	21459	3.364	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 168.20%#			
7) Phenol-d6	4.191	99	22561	2.802	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 140.10%#			
19) Nitrobenzene-d5	5.049	82	15274	1.817	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 181.70%#			
46) 2-Fluorobiphenyl	6.808	172	41827	1.852	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 185.20%#			
79) 2,4,6-Tribromophenol	8.194	330	14676	3.740	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 187.00%#			
96) 4-Terphenyl-d14	10.429	244	71723	1.960	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 196.00%#			

Data Path : I:\8270\Dakota\240624RVT\
Data File : 34679-03.D
Acq On : 24 Jun 2024 7:59 pm
Operator : Dakota:jg
Sample : L2434679-03,32,,HNY
Misc : WG1938645,WG1938279,ical21225
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Jun 25 20:24:54 2024
Quant Method : I:\8270\Dakota\240624RVT\FS240618RVT_14D_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Jun 25 20:11:47 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\240624RVT\ABN0624.D
: 2 - I:\8270\Dakota\240624RVT\ADP0624.D
: 3 - I:\8270\Dakota\240624RVT\AP90624.D
Sub List : 8270TCL_combo_REV1 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Target Compounds						Qvalue
6) 2-Chlorophenol	0.000		0	N.D.		
8) Phenol	0.000		0	N.D.		
9) Bis(2-chloroethyl)ether	0.000		0	N.D.		
14) Bis(2-chloroisopropyl)...	0.000		0	N.D.		
15) 2-Methylphenol	0.000		0	N.D.		
17) n-Nitrosodi-n-propylamine	0.000		0	N.D.	d	
18) 3-Methylphenol/4-Methy...	0.000		0	N.D.		
20) Nitrobenzene	0.000		0	N.D.		
21) Isophorone	0.000		0	N.D.		
22) 2-Nitrophenol	0.000		0	N.D.		
23) 2,4-Dimethylphenol	0.000		0	N.D.		
24) Bis(2-chloroethoxy)met...	0.000		0	N.D.		
25) 2,4-Dichlorophenol	0.000		0	N.D.		
28) Benzaldehyde	0.000		0	N.D.		
29) Acetophenone	0.000		0	N.D.		
38) 4-Chloroaniline	0.000		0	N.D.		
40) p-Chloro-m-cresol	0.000		0	N.D.		
43) Hexachlorocyclopentadiene	0.000		0	N.D.		
44) 2,4,6-Trichlorophenol	0.000		0	N.D.		
45) 2,4,5-Trichlorophenol	0.000		0	N.D.		
48) 2-Nitroaniline	0.000		0	N.D.		
51) Dimethyl phthalate	0.000		0	N.D.	d	
53) 2,6-Dinitrotoluene	0.000		0	N.D.	d	
60) Caprolactam	0.000		0	N.D.		
61) 1,2,4,5-Tetrachloroben...	0.000		0	N.D.		
62) Biphenyl	0.000		0	N.D.		
64) 3-Nitroaniline	0.000		0	N.D.		
66) 2,4-Dinitrophenol	0.000		0	N.D.		
67) Dibenzofuran	0.000		0	N.D.		
68) 2,4-Dinitrotoluene	0.000		0	N.D.	d	
69) 4-Nitrophenol	0.000		0	N.D.		
71) 2,3,4,6-Tetrachlorophenol	0.000		0	N.D.		
72) Diethyl phthalate	0.000		0	N.D.		
74) 4-Chlorophenyl phenyl ...	0.000		0	N.D.		
75) 4-Nitroaniline	0.000		0	N.D.		
76) 4,6-Dinitro-o-cresol	0.000		0	N.D.		

Data Path : I:\8270\Dakota\240624RVT\
Data File : 34679-03.D
Acq On : 24 Jun 2024 7:59 pm
Operator : Dakota:jg
Sample : L2434679-03,32,,HNY
Misc : WG1938645,WG1938279,ical21225
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Jun 25 20:24:54 2024
Quant Method : I:\8270\Dakota\240624RVT\FS240618RVT_14D_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Jun 25 20:11:47 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\240624RVT\ABN0624.D
: 2 - I:\8270\Dakota\240624RVT\ADP0624.D
: 3 - I:\8270\Dakota\240624RVT\AP90624.D
Sub List : 8270TCL_combo_REV1 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
77) NDPA/DPA	0.000		0	N.D.		
80) 4-Bromophenyl phenyl e...	0.000		0	N.D.		
87) Atrazine	0.000		0	N.D.		
91) Carbazole	0.000		0	N.D.		
92) Di-n-butylphthalate	0.000		0	N.D.	d	
97) Butyl benzyl phthalate	0.000		0	N.D.		
106) 3,3'-Dichlorobenzidine	0.000		0	N.D.		
108) Bis(2-ethylhexyl)phtha...	0.000		0	N.D.	d	
109) Di-n-octylphthalate	0.000		0	N.D.	d	

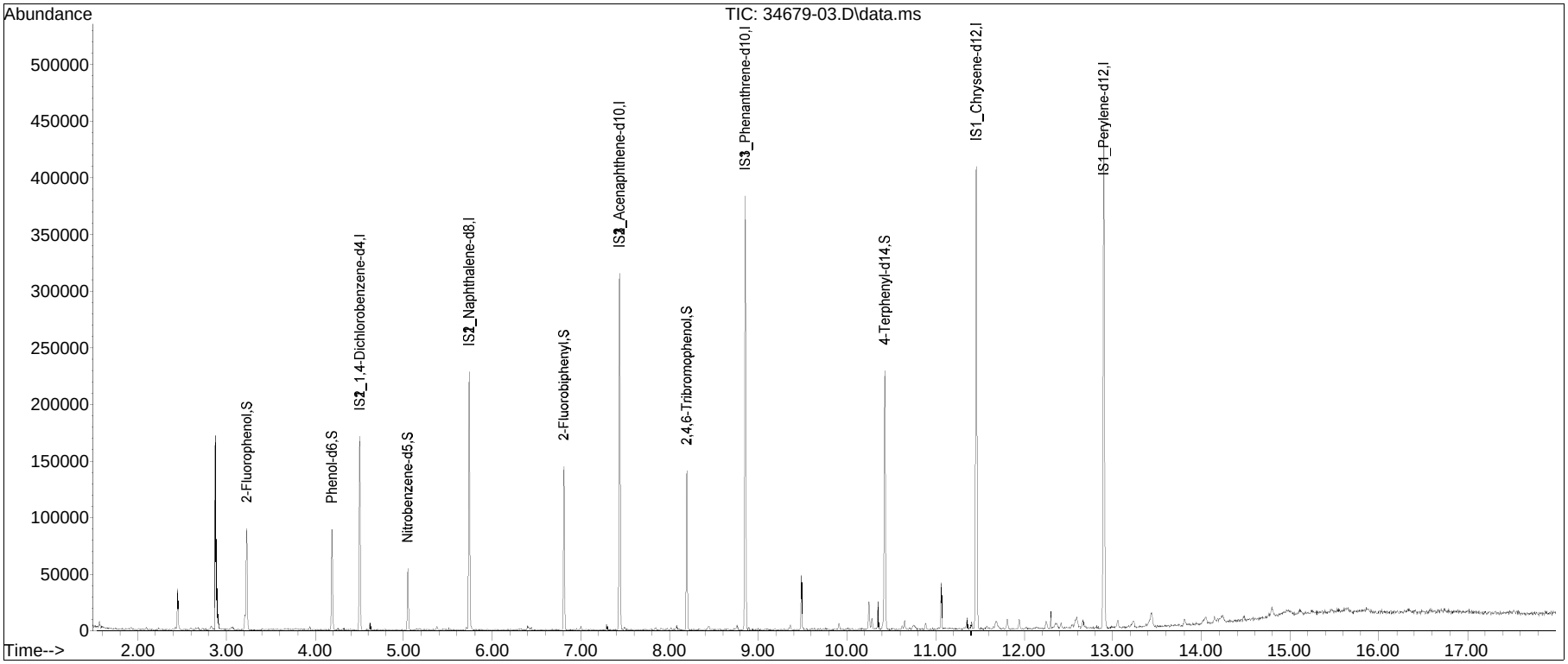
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\240624RVT\
Data File : 34679-03.D
Acq On : 24 Jun 2024 7:59 pm
Operator : Dakota:jg
Sample : L2434679-03,32,,HNY
Misc : WG1938645,WG1938279,ical21225
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Jun 25 20:24:54 2024
Quant Method : I:\8270\Dakota\240624RVT\FS240618RVT_14D_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Jun 25 20:11:47 2024
Response via : Initial Calibration

Sub List : 8270TCL_combo_REV1 - TCL/CT/MAP90624.D•



Manual Integration Report

Data Path	: I:\8270\Dakota\240624RVT\	QMethod	: FS240618RVT_14D_Dakota.m
Data File	: 34679-03.D	Operator	: Dakota:jg
Date Inj'd	: 6/24/2024 7:59 pm	Instrument	: Dakota
Sample	: L2434679-03,32,,HNY	Quant Date	: 6/25/2024 8:12 pm

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\240624RVT\
Data File : 34679-04.D
Acq On : 24 Jun 2024 8:22 pm
Operator : Dakota:jg
Sample : L2434679-04,32,,HNY
Misc : WG1938645,WG1938279,ical21225
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Jun 25 20:25:02 2024
Quant Method : I:\8270\Dakota\240624RVT\FS240618RVT_14D_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Jun 25 20:11:47 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\240624RVT\ABN0624.D
: 2 - I:\8270\Dakota\240624RVT\ADP0624.D
: 3 - I:\8270\Dakota\240624RVT\AP90624.D
Sub List : 8270TCL_combo_REV1 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) IS1_1,4-Dichlorobenzen...	4.505	152	27137	4.000	ug/ml	0.00
Standard Area 1 = 25255			Recovery = 107.45%			
27) IS2_1,4-Dichlorobenzen...	4.505	152	27137	4.000	ug/ml	0.00
Standard Area 3 = 26504			Recovery = 102.39%			
35) IS1_Naphthalene-d8	5.739	136	93084	4.000	ug/ml	# 0.00
Standard Area 1 = 92102			Recovery = 101.07%			
55) IS2_Naphthalene-d8	5.739	136	93084	4.000	ug/ml	# 0.00
Standard Area 3 = 100155			Recovery = 92.94%			
63) IS1_Acenaphthene-d10	7.433	164	61030	4.000	ug/ml	0.00
Standard Area 1 = 69151			Recovery = 88.26%			
83) IS2_Acenaphthene-d10	7.433	164	61030	4.000	ug/ml	0.00
Standard Area 3 = 69129			Recovery = 88.28%			
86) IS3_Acenaphthene-d10	7.433	164	61030	4.000	ug/ml	0.00
Standard Area 2 = 63201			Recovery = 96.56%			
88) IS1_Phenanthrene-d10	8.856	188	137752	4.000	ug/ml	0.00
Standard Area 1 = 156078			Recovery = 88.26%			
100) IS3_Phenanthrene-d10	8.856	188	137752	4.000	ug/ml	0.00
Standard Area 2 = 157977			Recovery = 87.20%			
104) IS1_Chrysene-d12	11.458	240	141693	4.000	ug/ml	0.00
Standard Area 1 = 161664			Recovery = 87.65%			
113) IS1_Perylene-d12	12.900	264	170579	4.000	ug/ml	0.00
Standard Area 1 = 190313			Recovery = 89.63%			
System Monitoring Compounds						
4) 2-Fluorophenol	3.233	112	22613	3.243	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 162.15%#			
7) Phenol-d6	4.194	99	23275	2.645	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 132.25%#			
19) Nitrobenzene-d5	5.049	82	15232	1.658	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 165.80%#			
46) 2-Fluorobiphenyl	6.808	172	42162	1.807	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 180.70%#			
79) 2,4,6-Tribromophenol	8.194	330	14662	3.676	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 183.80%#			
96) 4-Terphenyl-d14	10.429	244	68863	1.923	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 192.30%#			

Data Path : I:\8270\Dakota\240624RVT\
Data File : 34679-04.D
Acq On : 24 Jun 2024 8:22 pm
Operator : Dakota:jg
Sample : L2434679-04,32,,HNY
Misc : WG1938645,WG1938279,ical21225
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Jun 25 20:25:02 2024
Quant Method : I:\8270\Dakota\240624RVT\FS240618RVT_14D_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Jun 25 20:11:47 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\240624RVT\ABN0624.D
: 2 - I:\8270\Dakota\240624RVT\ADP0624.D
: 3 - I:\8270\Dakota\240624RVT\AP90624.D
Sub List : 8270TCL_combo_REV1 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Target Compounds						Qvalue
6) 2-Chlorophenol	0.000		0	N.D.		
8) Phenol	0.000		0	N.D.		
9) Bis(2-chloroethyl)ether	0.000		0	N.D.		
14) Bis(2-chloroisopropyl)...	0.000		0	N.D.		
15) 2-Methylphenol	0.000		0	N.D.		
17) n-Nitrosodi-n-propylamine	0.000		0	N.D.	d	
18) 3-Methylphenol/4-Methy...	0.000		0	N.D.		
20) Nitrobenzene	0.000		0	N.D.		
21) Isophorone	0.000		0	N.D.		
22) 2-Nitrophenol	0.000		0	N.D.		
23) 2,4-Dimethylphenol	0.000		0	N.D.		
24) Bis(2-chloroethoxy)met...	0.000		0	N.D.		
25) 2,4-Dichlorophenol	0.000		0	N.D.		
28) Benzaldehyde	0.000		0	N.D.		
29) Acetophenone	0.000		0	N.D.		
38) 4-Chloroaniline	0.000		0	N.D.		
40) p-Chloro-m-cresol	0.000		0	N.D.		
43) Hexachlorocyclopentadiene	0.000		0	N.D.		
44) 2,4,6-Trichlorophenol	0.000		0	N.D.		
45) 2,4,5-Trichlorophenol	0.000		0	N.D.		
48) 2-Nitroaniline	0.000		0	N.D.		
51) Dimethyl phthalate	0.000		0	N.D.	d	
53) 2,6-Dinitrotoluene	0.000		0	N.D.	d	
60) Caprolactam	0.000		0	N.D.		
61) 1,2,4,5-Tetrachloroben...	0.000		0	N.D.		
62) Biphenyl	0.000		0	N.D.		
64) 3-Nitroaniline	0.000		0	N.D.		
66) 2,4-Dinitrophenol	0.000		0	N.D.		
67) Dibenzofuran	0.000		0	N.D.		
68) 2,4-Dinitrotoluene	0.000		0	N.D.	d	
69) 4-Nitrophenol	0.000		0	N.D.		
71) 2,3,4,6-Tetrachlorophenol	0.000		0	N.D.		
72) Diethyl phthalate	0.000		0	N.D.		
74) 4-Chlorophenyl phenyl ...	0.000		0	N.D.		
75) 4-Nitroaniline	0.000		0	N.D.		
76) 4,6-Dinitro-o-cresol	0.000		0	N.D.		

Data Path : I:\8270\Dakota\240624RVT\
Data File : 34679-04.D
Acq On : 24 Jun 2024 8:22 pm
Operator : Dakota:jg
Sample : L2434679-04,32,,HNY
Misc : WG1938645,WG1938279,ical21225
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Jun 25 20:25:02 2024
Quant Method : I:\8270\Dakota\240624RVT\FS240618RVT_14D_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Jun 25 20:11:47 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\240624RVT\ABN0624.D
: 2 - I:\8270\Dakota\240624RVT\ADP0624.D
: 3 - I:\8270\Dakota\240624RVT\AP90624.D
Sub List : 8270TCL_combo_REV1 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
77) NDPA/DPA	0.000		0		N.D.	
80) 4-Bromophenyl phenyl e...	0.000		0		N.D.	
87) Atrazine	0.000		0		N.D.	
91) Carbazole	0.000		0		N.D.	
92) Di-n-butylphthalate	0.000		0		N.D.	d
97) Butyl benzyl phthalate	0.000		0		N.D.	
106) 3,3'-Dichlorobenzidine	0.000		0		N.D.	
108) Bis(2-ethylhexyl)phtha...	0.000		0		N.D.	d
109) Di-n-octylphthalate	0.000		0		N.D.	d

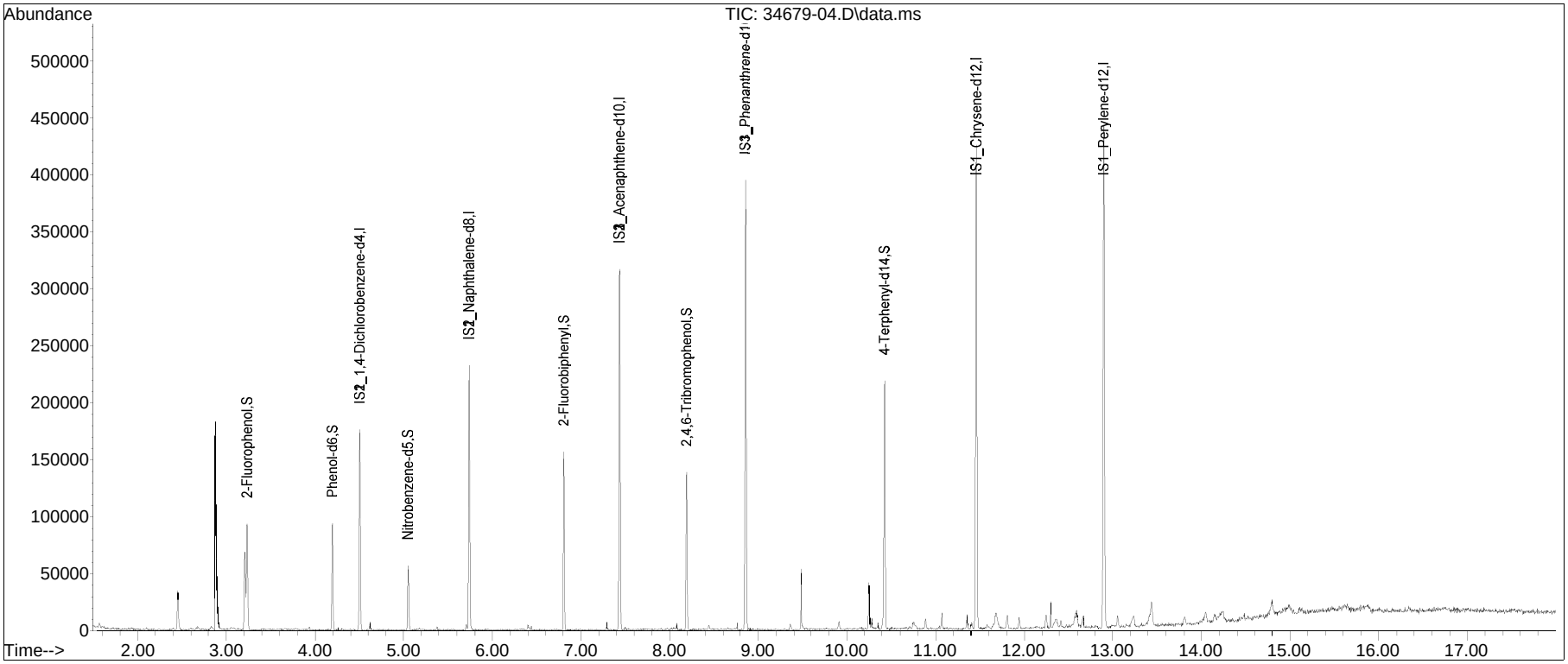
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\240624RVT\
Data File : 34679-04.D
Acq On : 24 Jun 2024 8:22 pm
Operator : Dakota:jg
Sample : L2434679-04,32,,HNY
Misc : WG1938645,WG1938279,ical21225
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Jun 25 20:25:02 2024
Quant Method : I:\8270\Dakota\240624RVT\FS240618RVT_14D_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Jun 25 20:11:47 2024
Response via : Initial Calibration

Sub List : 8270TCL_combo_REV1 - TCL/CT/MAP90624.D•



Manual Integration Report

Data Path	: I:\8270\Dakota\240624RVT\	QMethod	: FS240618RVT_14D_Dakota.m
Data File	: 34679-04.D	Operator	: Dakota:jg
Date Inj'd	: 6/24/2024 8:22 pm	Instrument	: Dakota
Sample	: L2434679-04,32,,HNY	Quant Date	: 6/25/2024 8:12 pm

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\240624RVT\
Data File : 34679-05.D
Acq On : 24 Jun 2024 8:44 pm
Operator : Dakota:jg
Sample : L2434679-05,32,,HNY
Misc : WG1938645,WG1938279,ical21225
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Jun 25 20:25:16 2024
Quant Method : I:\8270\Dakota\240624RVT\FS240618RVT_14D_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Jun 25 20:11:47 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\240624RVT\ABN0624.D
: 2 - I:\8270\Dakota\240624RVT\ADP0624.D
: 3 - I:\8270\Dakota\240624RVT\AP90624.D
Sub List : 8270TCL_combo_REV1 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) IS1_1,4-Dichlorobenzen...	4.505	152	26868	4.000	ug/ml		0.00
Standard Area 1 = 25255			Recovery = 106.39%				
27) IS2_1,4-Dichlorobenzen...	4.505	152	26868	4.000	ug/ml		0.00
Standard Area 3 = 26504			Recovery = 101.37%				
35) IS1_Naphthalene-d8	5.739	136	96192	4.000	ug/ml	#	0.00
Standard Area 1 = 92102			Recovery = 104.44%				
55) IS2_Naphthalene-d8	5.739	136	96192	4.000	ug/ml	#	0.00
Standard Area 3 = 100155			Recovery = 96.04%				
63) IS1_Acenaphthene-d10	7.433	164	62750	4.000	ug/ml		0.00
Standard Area 1 = 69151			Recovery = 90.74%				
83) IS2_Acenaphthene-d10	7.433	164	62750	4.000	ug/ml		0.00
Standard Area 3 = 69129			Recovery = 90.77%				
86) IS3_Acenaphthene-d10	7.433	164	62750	4.000	ug/ml		0.00
Standard Area 2 = 63201			Recovery = 99.29%				
88) IS1_Phenanthrene-d10	8.856	188	143567	4.000	ug/ml		0.00
Standard Area 1 = 156078			Recovery = 91.98%				
100) IS3_Phenanthrene-d10	8.856	188	143567	4.000	ug/ml		0.00
Standard Area 2 = 157977			Recovery = 90.88%				
104) IS1_Chrysene-d12	11.458	240	148998	4.000	ug/ml		0.00
Standard Area 1 = 161664			Recovery = 92.17%				
113) IS1_Perylene-d12	12.903	264	178295	4.000	ug/ml		0.00
Standard Area 1 = 190313			Recovery = 93.69%				
System Monitoring Compounds							
4) 2-Fluorophenol	3.231	112	21665	3.138	ug/ml		0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 156.90%#				
7) Phenol-d6	4.194	99	22317	2.561	ug/ml		0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 128.05%#				
19) Nitrobenzene-d5	5.049	82	15692	1.725	ug/ml		0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 172.50%#				
46) 2-Fluorobiphenyl	6.808	172	43554	1.806	ug/ml		0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 180.60%#				
79) 2,4,6-Tribromophenol	8.194	330	15056	3.671	ug/ml		0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 183.55%#				
96) 4-Terphenyl-d14	10.429	244	74077	1.984	ug/ml		0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 198.40%#				

Data Path : I:\8270\Dakota\240624RVT\
Data File : 34679-05.D
Acq On : 24 Jun 2024 8:44 pm
Operator : Dakota:jg
Sample : L2434679-05,32,,HNY
Misc : WG1938645,WG1938279,ical21225
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Jun 25 20:25:16 2024
Quant Method : I:\8270\Dakota\240624RVT\FS240618RVT_14D_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Jun 25 20:11:47 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\240624RVT\ABN0624.D
: 2 - I:\8270\Dakota\240624RVT\ADP0624.D
: 3 - I:\8270\Dakota\240624RVT\AP90624.D
Sub List : 8270TCL_combo_REV1 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Target Compounds						Qvalue
6) 2-Chlorophenol	0.000		0	N.D.		
8) Phenol	0.000		0	N.D.		
9) Bis(2-chloroethyl)ether	0.000		0	N.D.		
14) Bis(2-chloroisopropyl)...	0.000		0	N.D.		
15) 2-Methylphenol	0.000		0	N.D.		
17) n-Nitrosodi-n-propylamine	0.000		0	N.D.	d	
18) 3-Methylphenol/4-Methy...	0.000		0	N.D.		
20) Nitrobenzene	0.000		0	N.D.		
21) Isophorone	0.000		0	N.D.		
22) 2-Nitrophenol	0.000		0	N.D.		
23) 2,4-Dimethylphenol	0.000		0	N.D.		
24) Bis(2-chloroethoxy)met...	0.000		0	N.D.		
25) 2,4-Dichlorophenol	0.000		0	N.D.		
28) Benzaldehyde	0.000		0	N.D.		
29) Acetophenone	0.000		0	N.D.		
38) 4-Chloroaniline	0.000		0	N.D.		
40) p-Chloro-m-cresol	0.000		0	N.D.		
43) Hexachlorocyclopentadiene	0.000		0	N.D.		
44) 2,4,6-Trichlorophenol	0.000		0	N.D.		
45) 2,4,5-Trichlorophenol	0.000		0	N.D.		
48) 2-Nitroaniline	0.000		0	N.D.		
51) Dimethyl phthalate	0.000		0	N.D.	d	
53) 2,6-Dinitrotoluene	0.000		0	N.D.	d	
60) Caprolactam	0.000		0	N.D.		
61) 1,2,4,5-Tetrachloroben...	0.000		0	N.D.		
62) Biphenyl	0.000		0	N.D.		
64) 3-Nitroaniline	0.000		0	N.D.		
66) 2,4-Dinitrophenol	0.000		0	N.D.		
67) Dibenzofuran	0.000		0	N.D.		
68) 2,4-Dinitrotoluene	0.000		0	N.D.	d	
69) 4-Nitrophenol	0.000		0	N.D.		
71) 2,3,4,6-Tetrachlorophenol	0.000		0	N.D.		
72) Diethyl phthalate	0.000		0	N.D.		
74) 4-Chlorophenyl phenyl ...	0.000		0	N.D.		
75) 4-Nitroaniline	0.000		0	N.D.		
76) 4,6-Dinitro-o-cresol	0.000		0	N.D.		

Data Path : I:\8270\Dakota\240624RVT\
Data File : 34679-05.D
Acq On : 24 Jun 2024 8:44 pm
Operator : Dakota:jg
Sample : L2434679-05,32,,HNY
Misc : WG1938645,WG1938279,ical21225
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Jun 25 20:25:16 2024
Quant Method : I:\8270\Dakota\240624RVT\FS240618RVT_14D_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Jun 25 20:11:47 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\240624RVT\ABN0624.D
: 2 - I:\8270\Dakota\240624RVT\ADP0624.D
: 3 - I:\8270\Dakota\240624RVT\AP90624.D
Sub List : 8270TCL_combo_REV1 - TCL/CT/MA

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
77)	NDPA/DPA	0.000		0	N.D.	d	
80)	4-Bromophenyl phenyl e...	0.000		0	N.D.		
87)	Atrazine	0.000		0	N.D.		
91)	Carbazole	0.000		0	N.D.		
92)	Di-n-butylphthalate	0.000		0	N.D.	d	
97)	Butyl benzyl phthalate	0.000		0	N.D.		
106)	3,3'-Dichlorobenzidine	0.000		0	N.D.		
108)	Bis(2-ethylhexyl)phtha...	0.000		0	N.D.	d	
109)	Di-n-octylphthalate	0.000		0	N.D.	d	

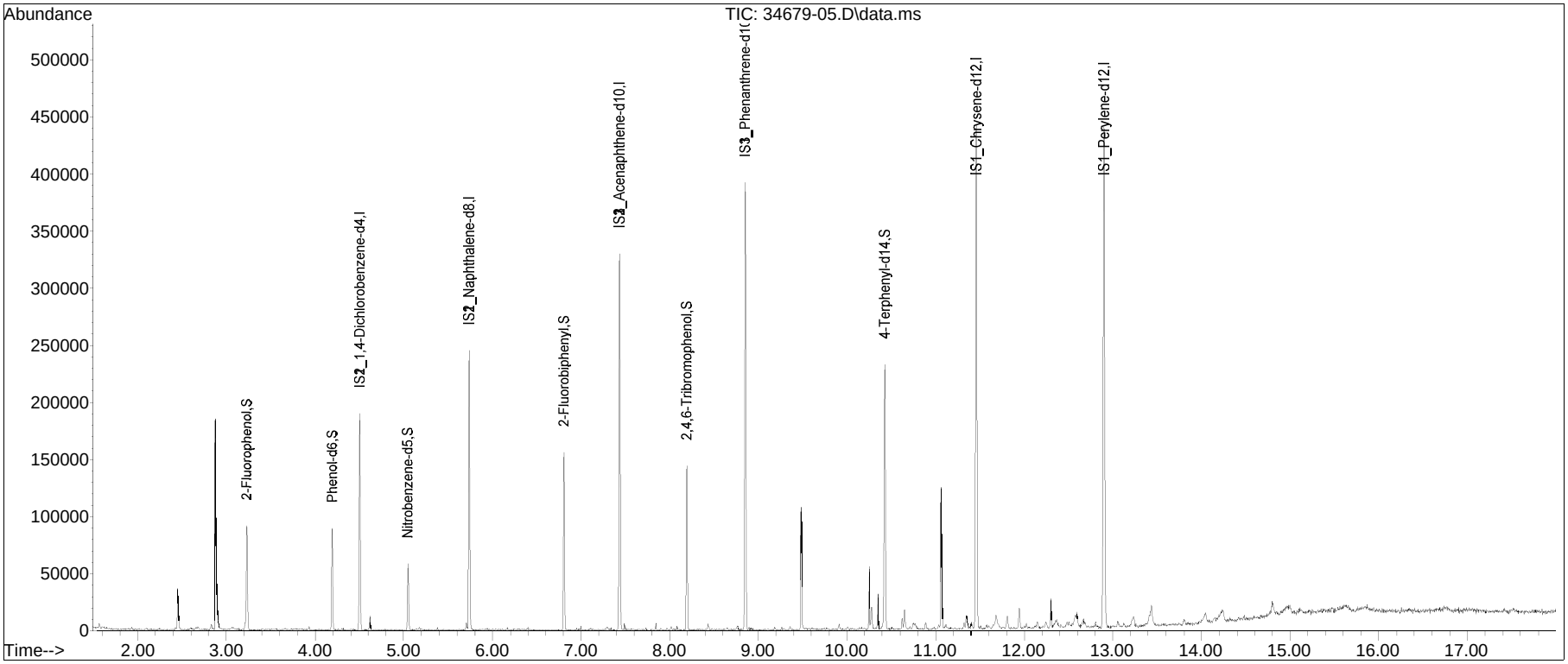
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\240624RVT\
Data File : 34679-05.D
Acq On : 24 Jun 2024 8:44 pm
Operator : Dakota:jg
Sample : L2434679-05,32,,HNY
Misc : WG1938645,WG1938279,ical21225
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Jun 25 20:25:16 2024
Quant Method : I:\8270\Dakota\240624RVT\FS240618RVT_14D_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Jun 25 20:11:47 2024
Response via : Initial Calibration

Sub List : 8270TCL_combo_REV1 - TCL/CT/MAP90624.D•



Manual Integration Report

Data Path	: I:\8270\Dakota\240624RVT\	QMethod	: FS240618RVT_14D_Dakota.m
Data File	: 34679-05.D	Operator	: Dakota:jg
Date Inj'd	: 6/24/2024 8:44 pm	Instrument	: Dakota
Sample	: L2434679-05,32,,HNY	Quant Date	: 6/25/2024 8:12 pm

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\240624RVT\
Data File : 34679-06.D
Acq On : 24 Jun 2024 9:06 pm
Operator : Dakota:jg
Sample : L2434679-06,32,,HNY
Misc : WG1938645,WG1938279,ical21225
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Jun 25 20:25:29 2024
Quant Method : I:\8270\Dakota\240624RVT\FS240618RVT_14D_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Jun 25 20:11:47 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\240624RVT\ABN0624.D
: 2 - I:\8270\Dakota\240624RVT\ADP0624.D
: 3 - I:\8270\Dakota\240624RVT\AP90624.D
Sub List : 8270TCL_combo_REV1 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) IS1_1,4-Dichlorobenzen...	4.505	152	26117	4.000	ug/ml	0.00
Standard Area 1 = 25255			Recovery = 103.41%			
27) IS2_1,4-Dichlorobenzen...	4.505	152	26117	4.000	ug/ml	0.00
Standard Area 3 = 26504			Recovery = 98.54%			
35) IS1_Naphthalene-d8	5.739	136	95339	4.000	ug/ml	0.00
Standard Area 1 = 92102			Recovery = 103.51%			
55) IS2_Naphthalene-d8	5.739	136	95339	4.000	ug/ml	0.00
Standard Area 3 = 100155			Recovery = 95.19%			
63) IS1_Acenaphthene-d10	7.436	164	61376	4.000	ug/ml	0.00
Standard Area 1 = 69151			Recovery = 88.76%			
83) IS2_Acenaphthene-d10	7.436	164	61376	4.000	ug/ml	0.00
Standard Area 3 = 69129			Recovery = 88.78%			
86) IS3_Acenaphthene-d10	7.436	164	61376	4.000	ug/ml	0.00
Standard Area 2 = 63201			Recovery = 97.11%			
88) IS1_Phenanthrene-d10	8.856	188	141536	4.000	ug/ml	0.00
Standard Area 1 = 156078			Recovery = 90.68%			
100) IS3_Phenanthrene-d10	8.856	188	141536	4.000	ug/ml	0.00
Standard Area 2 = 157977			Recovery = 89.59%			
104) IS1_Chrysene-d12	11.454	240	145790	4.000	ug/ml	0.00
Standard Area 1 = 161664			Recovery = 90.18%			
113) IS1_Perylene-d12	12.900	264	173897	4.000	ug/ml	0.00
Standard Area 1 = 190313			Recovery = 91.37%			
System Monitoring Compounds						
4) 2-Fluorophenol	3.230	112	22053	3.286	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 164.30%#			
7) Phenol-d6	4.194	99	23368	2.759	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 137.95%#			
19) Nitrobenzene-d5	5.049	82	15035	1.700	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 170.00%#			
46) 2-Fluorobiphenyl	6.808	172	41268	1.727	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 172.70%#			
79) 2,4,6-Tribromophenol	8.194	330	15220	3.794	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 189.70%#			
96) 4-Terphenyl-d14	10.426	244	70693	1.921	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 192.10%#			

Data Path : I:\8270\Dakota\240624RVT\
Data File : 34679-06.D
Acq On : 24 Jun 2024 9:06 pm
Operator : Dakota:jg
Sample : L2434679-06,32,,HNY
Misc : WG1938645,WG1938279,ical21225
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Jun 25 20:25:29 2024
Quant Method : I:\8270\Dakota\240624RVT\FS240618RVT_14D_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Jun 25 20:11:47 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\240624RVT\ABN0624.D
: 2 - I:\8270\Dakota\240624RVT\ADP0624.D
: 3 - I:\8270\Dakota\240624RVT\AP90624.D
Sub List : 8270TCL_combo_REV1 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Target Compounds						Qvalue
6) 2-Chlorophenol	0.000		0	N.D.		
8) Phenol	0.000		0	N.D.		
9) Bis(2-chloroethyl)ether	0.000		0	N.D.		
14) Bis(2-chloroisopropyl)...	0.000		0	N.D.		
15) 2-Methylphenol	0.000		0	N.D.		
17) n-Nitrosodi-n-propylamine	0.000		0	N.D.	d	
18) 3-Methylphenol/4-Methy...	0.000		0	N.D.		
20) Nitrobenzene	0.000		0	N.D.		
21) Isophorone	0.000		0	N.D.		
22) 2-Nitrophenol	0.000		0	N.D.		
23) 2,4-Dimethylphenol	0.000		0	N.D.		
24) Bis(2-chloroethoxy)met...	0.000		0	N.D.		
25) 2,4-Dichlorophenol	0.000		0	N.D.		
28) Benzaldehyde	0.000		0	N.D.		
29) Acetophenone	0.000		0	N.D.		
38) 4-Chloroaniline	0.000		0	N.D.		
40) p-Chloro-m-cresol	0.000		0	N.D.		
43) Hexachlorocyclopentadiene	0.000		0	N.D.		
44) 2,4,6-Trichlorophenol	0.000		0	N.D.		
45) 2,4,5-Trichlorophenol	0.000		0	N.D.		
48) 2-Nitroaniline	0.000		0	N.D.		
51) Dimethyl phthalate	0.000		0	N.D.	d	
53) 2,6-Dinitrotoluene	0.000		0	N.D.	d	
60) Caprolactam	0.000		0	N.D.		
61) 1,2,4,5-Tetrachloroben...	0.000		0	N.D.		
62) Biphenyl	0.000		0	N.D.		
64) 3-Nitroaniline	0.000		0	N.D.		
66) 2,4-Dinitrophenol	0.000		0	N.D.		
67) Dibenzofuran	0.000		0	N.D.		
68) 2,4-Dinitrotoluene	0.000		0	N.D.	d	
69) 4-Nitrophenol	0.000		0	N.D.		
71) 2,3,4,6-Tetrachlorophenol	0.000		0	N.D.		
72) Diethyl phthalate	0.000		0	N.D.		
74) 4-Chlorophenyl phenyl ...	0.000		0	N.D.		
75) 4-Nitroaniline	0.000		0	N.D.		
76) 4,6-Dinitro-o-cresol	0.000		0	N.D.		

Data Path : I:\8270\Dakota\240624RVT\
Data File : 34679-06.D
Acq On : 24 Jun 2024 9:06 pm
Operator : Dakota:jg
Sample : L2434679-06,32,,HNY
Misc : WG1938645,WG1938279,ical21225
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Jun 25 20:25:29 2024
Quant Method : I:\8270\Dakota\240624RVT\FS240618RVT_14D_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Jun 25 20:11:47 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\240624RVT\ABN0624.D
: 2 - I:\8270\Dakota\240624RVT\ADP0624.D
: 3 - I:\8270\Dakota\240624RVT\AP90624.D
Sub List : 8270TCL_combo_REV1 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
77) NDPA/DPA	0.000		0	N.D.	d	
80) 4-Bromophenyl phenyl e...	0.000		0	N.D.		
87) Atrazine	0.000		0	N.D.		
91) Carbazole	0.000		0	N.D.		
92) Di-n-butylphthalate	0.000		0	N.D.	d	
97) Butyl benzyl phthalate	0.000		0	N.D.		
106) 3,3'-Dichlorobenzidine	0.000		0	N.D.		
108) Bis(2-ethylhexyl)phtha...	0.000		0	N.D.	d	
109) Di-n-octylphthalate	0.000		0	N.D.	d	

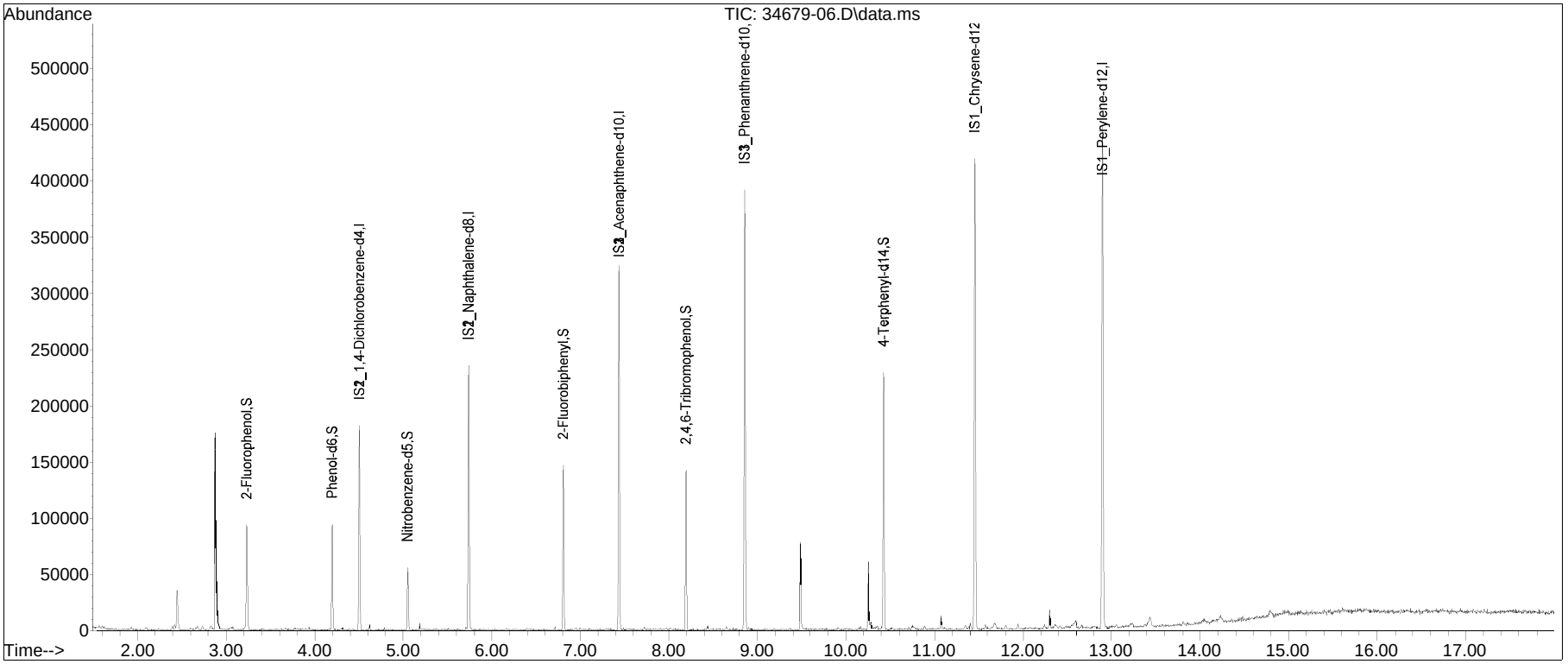
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\240624RVT\
Data File : 34679-06.D
Acq On : 24 Jun 2024 9:06 pm
Operator : Dakota:jg
Sample : L2434679-06,32,,HNY
Misc : WG1938645,WG1938279,ical21225
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Jun 25 20:25:29 2024
Quant Method : I:\8270\Dakota\240624RVT\FS240618RVT_14D_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Jun 25 20:11:47 2024
Response via : Initial Calibration

Sub List : 8270TCL_combo_REV1 - TCL/CT/MAP90624.D•



Manual Integration Report

Data Path	: I:\8270\Dakota\240624RVT\	QMethod	: FS240618RVT_14D_Dakota.m
Data File	: 34679-06.D	Operator	: Dakota:jg
Date Inj'd	: 6/24/2024 9:06 pm	Instrument	: Dakota
Sample	: L2434679-06,32,,HNY	Quant Date	: 6/25/2024 8:12 pm

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\240624RVT\
Data File : 34679-07.D
Acq On : 24 Jun 2024 9:29 pm
Operator : Dakota:jg
Sample : L2434679-07,32,,HNY
Misc : WG1938645,WG1938279,ical21225
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Jun 25 20:25:44 2024
Quant Method : I:\8270\Dakota\240624RVT\FS240618RVT_14D_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Jun 25 20:11:47 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\240624RVT\ABN0624.D
: 2 - I:\8270\Dakota\240624RVT\ADP0624.D
: 3 - I:\8270\Dakota\240624RVT\AP90624.D
Sub List : 8270TCL_combo_REV1 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) IS1_1,4-Dichlorobenzen...	4.505	152	26968	4.000	ug/ml	0.00
Standard Area 1 = 25255			Recovery = 106.78%			
27) IS2_1,4-Dichlorobenzen...	4.505	152	26968	4.000	ug/ml	0.00
Standard Area 3 = 26504			Recovery = 101.75%			
35) IS1_Naphthalene-d8	5.739	136	97173	4.000	ug/ml	# 0.00
Standard Area 1 = 92102			Recovery = 105.51%			
55) IS2_Naphthalene-d8	5.739	136	97173	4.000	ug/ml	# 0.00
Standard Area 3 = 100155			Recovery = 97.02%			
63) IS1_Acenaphthene-d10	7.433	164	62478	4.000	ug/ml	0.00
Standard Area 1 = 69151			Recovery = 90.35%			
83) IS2_Acenaphthene-d10	7.433	164	62478	4.000	ug/ml	0.00
Standard Area 3 = 69129			Recovery = 90.38%			
86) IS3_Acenaphthene-d10	7.433	164	62478	4.000	ug/ml	0.00
Standard Area 2 = 63201			Recovery = 98.86%			
88) IS1_Phenanthrene-d10	8.856	188	147597	4.000	ug/ml	0.00
Standard Area 1 = 156078			Recovery = 94.57%			
100) IS3_Phenanthrene-d10	8.856	188	147597	4.000	ug/ml	0.00
Standard Area 2 = 157977			Recovery = 93.43%			
104) IS1_Chrysene-d12	11.458	240	147217	4.000	ug/ml	# 0.00
Standard Area 1 = 161664			Recovery = 91.06%			
113) IS1_Perylene-d12	12.903	264	135887	4.000	ug/ml	0.00
Standard Area 1 = 190313			Recovery = 71.40%			
System Monitoring Compounds						
4) 2-Fluorophenol	3.234	112	23397	3.376	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 168.80%#			
7) Phenol-d6	4.194	99	24047	2.749	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 137.45%#			
19) Nitrobenzene-d5	5.049	82	15843	1.735	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 173.50%#			
46) 2-Fluorobiphenyl	6.808	172	44292	1.818	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 181.80%#			
79) 2,4,6-Tribromophenol	8.194	330	16384	4.012	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 200.60%#			
96) 4-Terphenyl-d14	10.426	244	76525	1.994	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 199.40%#			

Data Path : I:\8270\Dakota\240624RVT\
Data File : 34679-07.D
Acq On : 24 Jun 2024 9:29 pm
Operator : Dakota:jg
Sample : L2434679-07,32,,HNY
Misc : WG1938645,WG1938279,ical21225
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Jun 25 20:25:44 2024
Quant Method : I:\8270\Dakota\240624RVT\FS240618RVT_14D_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Jun 25 20:11:47 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\240624RVT\ABN0624.D
: 2 - I:\8270\Dakota\240624RVT\ADP0624.D
: 3 - I:\8270\Dakota\240624RVT\AP90624.D
Sub List : 8270TCL_combo_REV1 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Target Compounds						Qvalue
6) 2-Chlorophenol	0.000		0	N.D.		
8) Phenol	0.000		0	N.D.		
9) Bis(2-chloroethyl)ether	0.000		0	N.D.		
14) Bis(2-chloroisopropyl)...	0.000		0	N.D.		
15) 2-Methylphenol	0.000		0	N.D.		
17) n-Nitrosodi-n-propylamine	0.000		0	N.D.	d	
18) 3-Methylphenol/4-Methy...	0.000		0	N.D.		
20) Nitrobenzene	0.000		0	N.D.		
21) Isophorone	0.000		0	N.D.		
22) 2-Nitrophenol	0.000		0	N.D.		
23) 2,4-Dimethylphenol	0.000		0	N.D.		
24) Bis(2-chloroethoxy)met...	0.000		0	N.D.		
25) 2,4-Dichlorophenol	0.000		0	N.D.		
28) Benzaldehyde	0.000		0	N.D.		
29) Acetophenone	0.000		0	N.D.		
38) 4-Chloroaniline	0.000		0	N.D.		
40) p-Chloro-m-cresol	0.000		0	N.D.		
43) Hexachlorocyclopentadiene	0.000		0	N.D.		
44) 2,4,6-Trichlorophenol	0.000		0	N.D.		
45) 2,4,5-Trichlorophenol	0.000		0	N.D.		
48) 2-Nitroaniline	0.000		0	N.D.		
51) Dimethyl phthalate	0.000		0	N.D.	d	
53) 2,6-Dinitrotoluene	0.000		0	N.D.	d	
60) Caprolactam	0.000		0	N.D.		
61) 1,2,4,5-Tetrachloroben...	0.000		0	N.D.		
62) Biphenyl	0.000		0	N.D.		
64) 3-Nitroaniline	0.000		0	N.D.		
66) 2,4-Dinitrophenol	0.000		0	N.D.		
67) Dibenzofuran	0.000		0	N.D.		
68) 2,4-Dinitrotoluene	0.000		0	N.D.	d	
69) 4-Nitrophenol	0.000		0	N.D.		
71) 2,3,4,6-Tetrachlorophenol	0.000		0	N.D.		
72) Diethyl phthalate	0.000		0	N.D.		
74) 4-Chlorophenyl phenyl ...	0.000		0	N.D.		
75) 4-Nitroaniline	0.000		0	N.D.		
76) 4,6-Dinitro-o-cresol	0.000		0	N.D.		

Data Path : I:\8270\Dakota\240624RVT\
Data File : 34679-07.D
Acq On : 24 Jun 2024 9:29 pm
Operator : Dakota:jg
Sample : L2434679-07,32,,HNY
Misc : WG1938645,WG1938279,ical21225
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Jun 25 20:25:44 2024
Quant Method : I:\8270\Dakota\240624RVT\FS240618RVT_14D_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Jun 25 20:11:47 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\240624RVT\ABN0624.D
: 2 - I:\8270\Dakota\240624RVT\ADP0624.D
: 3 - I:\8270\Dakota\240624RVT\AP90624.D
Sub List : 8270TCL_combo_REV1 - TCL/CT/MA

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
77)	NDPA/DPA	0.000		0	N.D.	d	
80)	4-Bromophenyl phenyl e...	0.000		0	N.D.		
87)	Atrazine	0.000		0	N.D.		
91)	Carbazole	0.000		0	N.D.		
92)	Di-n-butylphthalate	0.000		0	N.D.	d	
97)	Butyl benzyl phthalate	0.000		0	N.D.		
106)	3,3'-Dichlorobenzidine	0.000		0	N.D.		
108)	Bis(2-ethylhexyl)phtha...	0.000		0	N.D.	d	
109)	Di-n-octylphthalate	0.000		0	N.D.	d	

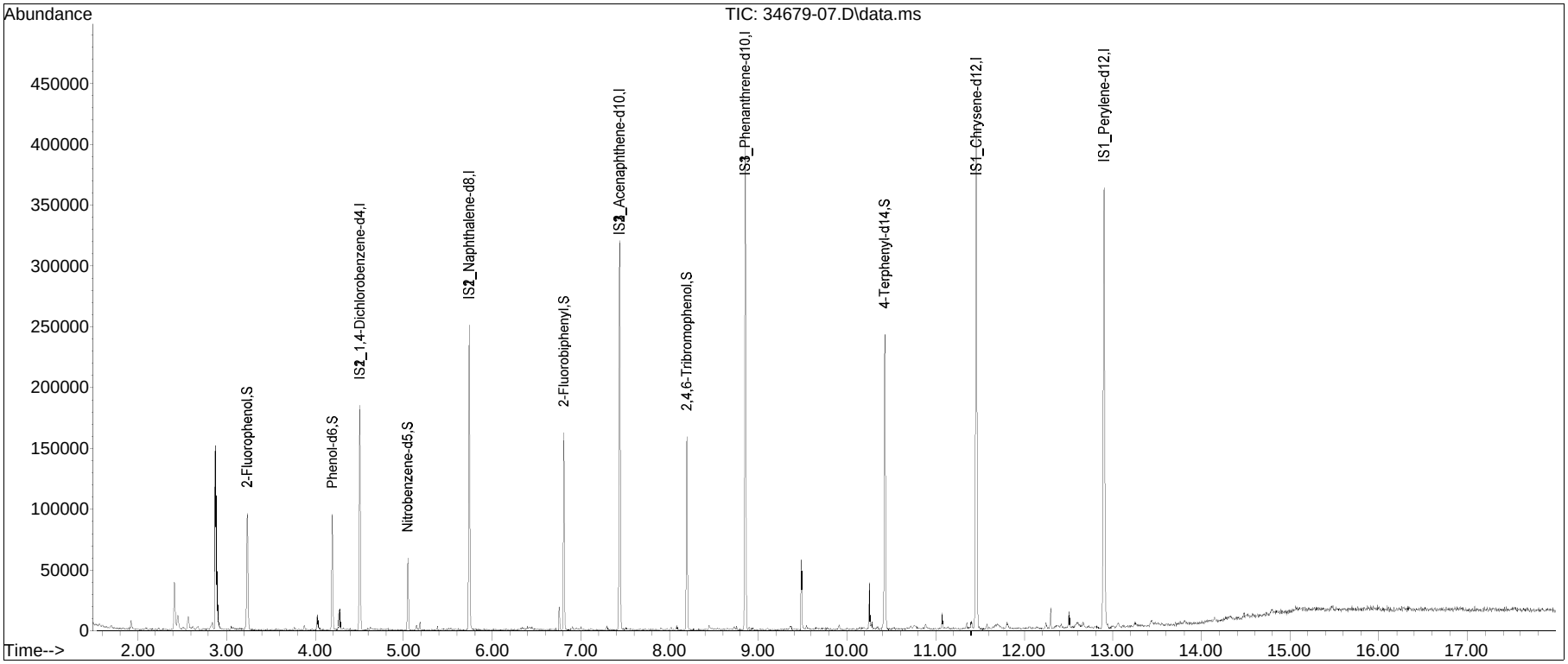
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\240624RVT\
Data File : 34679-07.D
Acq On : 24 Jun 2024 9:29 pm
Operator : Dakota:jg
Sample : L2434679-07,32,,HNY
Misc : WG1938645,WG1938279,ical21225
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Jun 25 20:25:44 2024
Quant Method : I:\8270\Dakota\240624RVT\FS240618RVT_14D_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Jun 25 20:11:47 2024
Response via : Initial Calibration

Sub List : 8270TCL_combo_REV1 - TCL/CT/MAP90624.D•



Manual Integration Report

Data Path	: I:\8270\Dakota\240624RVT\	QMethod	: FS240618RVT_14D_Dakota.m
Data File	: 34679-07.D	Operator	: Dakota:jg
Date Inj'd	: 6/24/2024 9:29 pm	Instrument	: Dakota
Sample	: L2434679-07,32,,HNY	Quant Date	: 6/25/2024 8:12 pm

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\240624RVT\
Data File : 34679-08.D
Acq On : 24 Jun 2024 9:51 pm
Operator : Dakota:jg
Sample : L2434679-08,32,,HNY
Misc : WG1938645,WG1938279,ical21225
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Jun 25 20:25:56 2024
Quant Method : I:\8270\Dakota\240624RVT\FS240618RVT_14D_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Jun 25 20:11:47 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\240624RVT\ABN0624.D
: 2 - I:\8270\Dakota\240624RVT\ADP0624.D
: 3 - I:\8270\Dakota\240624RVT\AP90624.D
Sub List : 8270TCL_combo_REV1 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) IS1_1,4-Dichlorobenzen...	4.505	152	28851	4.000	ug/ml	0.00
Standard Area 1 = 25255			Recovery = 114.24%			
27) IS2_1,4-Dichlorobenzen...	4.505	152	28851	4.000	ug/ml	0.00
Standard Area 3 = 26504			Recovery = 108.86%			
35) IS1_Naphthalene-d8	5.739	136	98607	4.000	ug/ml	# 0.00
Standard Area 1 = 92102			Recovery = 107.06%			
55) IS2_Naphthalene-d8	5.739	136	98607	4.000	ug/ml	# 0.00
Standard Area 3 = 100155			Recovery = 98.45%			
63) IS1_Acenaphthene-d10	7.436	164	62524	4.000	ug/ml	0.00
Standard Area 1 = 69151			Recovery = 90.42%			
83) IS2_Acenaphthene-d10	7.436	164	62524	4.000	ug/ml	0.00
Standard Area 3 = 69129			Recovery = 90.45%			
86) IS3_Acenaphthene-d10	7.436	164	62524	4.000	ug/ml	0.00
Standard Area 2 = 63201			Recovery = 98.93%			
88) IS1_Phenanthrene-d10	8.856	188	143299	4.000	ug/ml	0.00
Standard Area 1 = 156078			Recovery = 91.81%			
100) IS3_Phenanthrene-d10	8.856	188	143299	4.000	ug/ml	0.00
Standard Area 2 = 157977			Recovery = 90.71%			
104) IS1_Chrysene-d12	11.454	240	141743	4.000	ug/ml	0.00
Standard Area 1 = 161664			Recovery = 87.68%			
113) IS1_Perylene-d12	12.900	264	171415	4.000	ug/ml	0.00
Standard Area 1 = 190313			Recovery = 90.07%			
System Monitoring Compounds						
4) 2-Fluorophenol	3.233	112	23402	3.157	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 157.85%#			
7) Phenol-d6	4.194	99	23747	2.538	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 126.90%#			
19) Nitrobenzene-d5	5.049	82	15610	1.598	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 159.80%#			
46) 2-Fluorobiphenyl	6.808	172	43801	1.772	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 177.20%#			
79) 2,4,6-Tribromophenol	8.194	330	15042	3.681	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 184.05%#			
96) 4-Terphenyl-d14	10.429	244	69264	1.859	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 185.90%#			

Data Path : I:\8270\Dakota\240624RVT\
Data File : 34679-08.D
Acq On : 24 Jun 2024 9:51 pm
Operator : Dakota:jg
Sample : L2434679-08,32,,HNY
Misc : WG1938645,WG1938279,ical21225
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Jun 25 20:25:56 2024
Quant Method : I:\8270\Dakota\240624RVT\FS240618RVT_14D_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Jun 25 20:11:47 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\240624RVT\ABN0624.D
: 2 - I:\8270\Dakota\240624RVT\ADP0624.D
: 3 - I:\8270\Dakota\240624RVT\AP90624.D
Sub List : 8270TCL_combo_REV1 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Target Compounds						Qvalue
6) 2-Chlorophenol	0.000		0	N.D.		
8) Phenol	0.000		0	N.D.		
9) Bis(2-chloroethyl)ether	0.000		0	N.D.		
14) Bis(2-chloroisopropyl)...	0.000		0	N.D.		
15) 2-Methylphenol	0.000		0	N.D.		
17) n-Nitrosodi-n-propylamine	0.000		0	N.D.	d	
18) 3-Methylphenol/4-Methy...	0.000		0	N.D.		
20) Nitrobenzene	0.000		0	N.D.		
21) Isophorone	0.000		0	N.D.		
22) 2-Nitrophenol	0.000		0	N.D.		
23) 2,4-Dimethylphenol	0.000		0	N.D.		
24) Bis(2-chloroethoxy)met...	0.000		0	N.D.		
25) 2,4-Dichlorophenol	0.000		0	N.D.		
28) Benzaldehyde	0.000		0	N.D.		
29) Acetophenone	0.000		0	N.D.		
38) 4-Chloroaniline	0.000		0	N.D.		
40) p-Chloro-m-cresol	0.000		0	N.D.		
43) Hexachlorocyclopentadiene	0.000		0	N.D.		
44) 2,4,6-Trichlorophenol	0.000		0	N.D.		
45) 2,4,5-Trichlorophenol	0.000		0	N.D.		
48) 2-Nitroaniline	0.000		0	N.D.		
51) Dimethyl phthalate	0.000		0	N.D.	d	
53) 2,6-Dinitrotoluene	0.000		0	N.D.	d	
60) Caprolactam	0.000		0	N.D.		
61) 1,2,4,5-Tetrachloroben...	0.000		0	N.D.		
62) Biphenyl	0.000		0	N.D.		
64) 3-Nitroaniline	0.000		0	N.D.		
66) 2,4-Dinitrophenol	0.000		0	N.D.		
67) Dibenzofuran	0.000		0	N.D.		
68) 2,4-Dinitrotoluene	0.000		0	N.D.	d	
69) 4-Nitrophenol	0.000		0	N.D.		
71) 2,3,4,6-Tetrachlorophenol	0.000		0	N.D.		
72) Diethyl phthalate	0.000		0	N.D.		
74) 4-Chlorophenyl phenyl ...	0.000		0	N.D.		
75) 4-Nitroaniline	0.000		0	N.D.		
76) 4,6-Dinitro-o-cresol	0.000		0	N.D.		

Data Path : I:\8270\Dakota\240624RVT\
Data File : 34679-08.D
Acq On : 24 Jun 2024 9:51 pm
Operator : Dakota:jg
Sample : L2434679-08,32,,HNY
Misc : WG1938645,WG1938279,ical21225
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Jun 25 20:25:56 2024
Quant Method : I:\8270\Dakota\240624RVT\FS240618RVT_14D_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Jun 25 20:11:47 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\240624RVT\ABN0624.D
: 2 - I:\8270\Dakota\240624RVT\ADP0624.D
: 3 - I:\8270\Dakota\240624RVT\AP90624.D
Sub List : 8270TCL_combo_REV1 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
77) NDPA/DPA	0.000		0	N.D.		
80) 4-Bromophenyl phenyl e...	0.000		0	N.D.		
87) Atrazine	0.000		0	N.D.		
91) Carbazole	0.000		0	N.D.		
92) Di-n-butylphthalate	0.000		0	N.D.	d	
97) Butyl benzyl phthalate	0.000		0	N.D.		
106) 3,3'-Dichlorobenzidine	0.000		0	N.D.		
108) Bis(2-ethylhexyl)phtha...	0.000		0	N.D.	d	
109) Di-n-octylphthalate	0.000		0	N.D.	d	

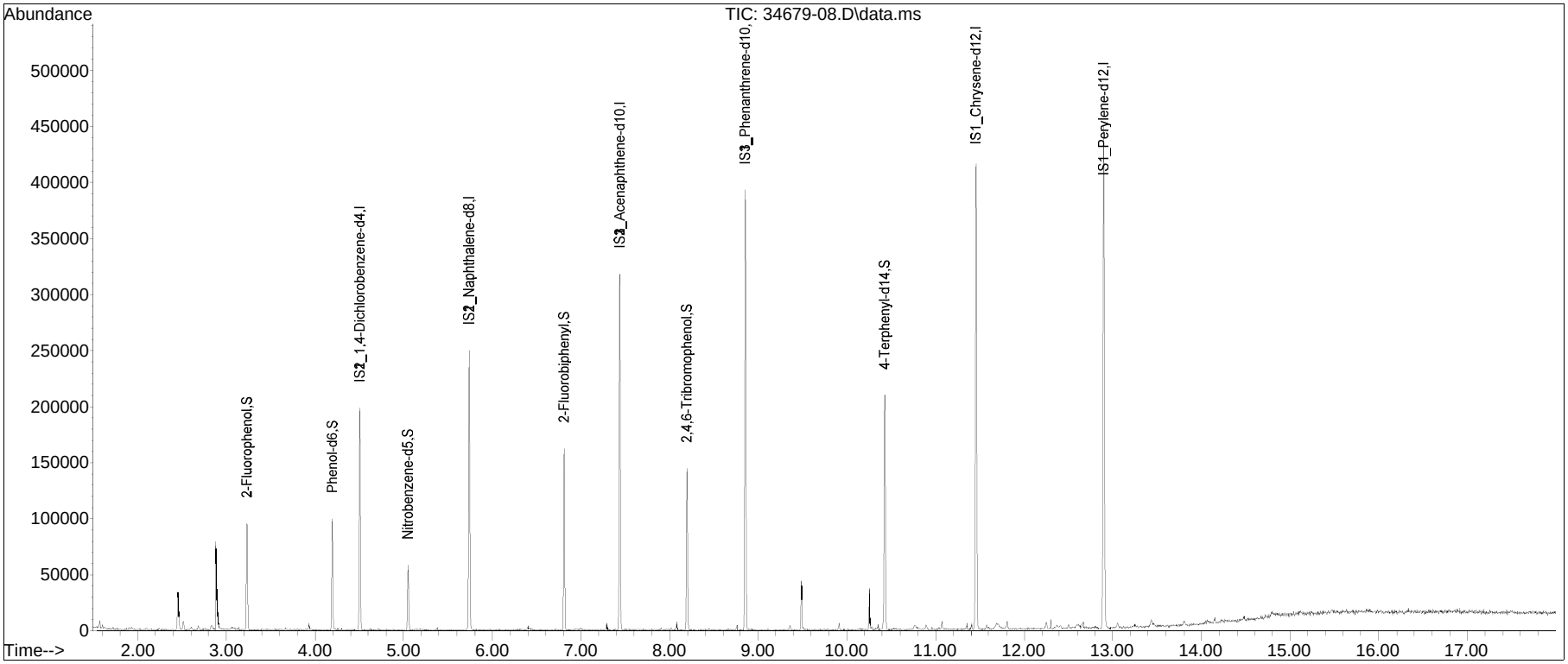
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\240624RVT\
Data File : 34679-08.D
Acq On : 24 Jun 2024 9:51 pm
Operator : Dakota:jg
Sample : L2434679-08,32,,HNY
Misc : WG1938645,WG1938279,ical21225
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Jun 25 20:25:56 2024
Quant Method : I:\8270\Dakota\240624RVT\FS240618RVT_14D_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Jun 25 20:11:47 2024
Response via : Initial Calibration

Sub List : 8270TCL_combo_REV1 - TCL/CT/MAP90624.D•



Manual Integration Report

Data Path	: I:\8270\Dakota\240624RVT\	QMethod	: FS240618RVT_14D_Dakota.m
Data File	: 34679-08.D	Operator	: Dakota:jg
Date Inj'd	: 6/24/2024 9:51 pm	Instrument	: Dakota
Sample	: L2434679-08,32,,HNY	Quant Date	: 6/25/2024 8:12 pm

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\240624RVT\
Data File : 34679-09.D
Acq On : 24 Jun 2024 10:14 pm
Operator : Dakota:jg
Sample : L2434679-09,32,,HNY
Misc : WG1938645,WG1938279,ical21225
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Jun 25 20:26:04 2024
Quant Method : I:\8270\Dakota\240624RVT\FS240618RVT_14D_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Jun 25 20:11:47 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\240624RVT\ABN0624.D
: 2 - I:\8270\Dakota\240624RVT\ADP0624.D
: 3 - I:\8270\Dakota\240624RVT\AP90624.D
Sub List : 8270TCL_combo_REV1 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) IS1_1,4-Dichlorobenzen...	4.505	152	28361	4.000	ug/ml	0.00
Standard Area 1 = 25255			Recovery = 112.30%			
27) IS2_1,4-Dichlorobenzen...	4.505	152	28361	4.000	ug/ml	0.00
Standard Area 3 = 26504			Recovery = 107.01%			
35) IS1_Naphthalene-d8	5.739	136	96629	4.000	ug/ml	# 0.00
Standard Area 1 = 92102			Recovery = 104.92%			
55) IS2_Naphthalene-d8	5.739	136	96629	4.000	ug/ml	# 0.00
Standard Area 3 = 100155			Recovery = 96.48%			
63) IS1_Acenaphthene-d10	7.433	164	61463	4.000	ug/ml	0.00
Standard Area 1 = 69151			Recovery = 88.88%			
83) IS2_Acenaphthene-d10	7.433	164	61463	4.000	ug/ml	0.00
Standard Area 3 = 69129			Recovery = 88.91%			
86) IS3_Acenaphthene-d10	7.433	164	61463	4.000	ug/ml	0.00
Standard Area 2 = 63201			Recovery = 97.25%			
88) IS1_Phenanthrene-d10	8.856	188	145361	4.000	ug/ml	0.00
Standard Area 1 = 156078			Recovery = 93.13%			
100) IS3_Phenanthrene-d10	8.856	188	145361	4.000	ug/ml	0.00
Standard Area 2 = 157977			Recovery = 92.01%			
104) IS1_Chrysene-d12	11.455	240	146798	4.000	ug/ml	0.00
Standard Area 1 = 161664			Recovery = 90.80%			
113) IS1_Perylene-d12	12.900	264	178379	4.000	ug/ml	0.00
Standard Area 1 = 190313			Recovery = 93.73%			
System Monitoring Compounds						
4) 2-Fluorophenol	3.231	112	21124	2.899	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 144.95%#			
7) Phenol-d6	4.194	99	22341	2.429	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 121.45%#			
19) Nitrobenzene-d5	5.049	82	15508	1.615	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 161.50%#			
46) 2-Fluorobiphenyl	6.808	172	44284	1.828	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 182.80%#			
79) 2,4,6-Tribromophenol	8.197	330	14026	3.492	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 174.60%#			
96) 4-Terphenyl-d14	10.426	244	71683	1.896	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 189.60%#			

Data Path : I:\8270\Dakota\240624RVT\
Data File : 34679-09.D
Acq On : 24 Jun 2024 10:14 pm
Operator : Dakota:jg
Sample : L2434679-09,32,,HNY
Misc : WG1938645,WG1938279,ical21225
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Jun 25 20:26:04 2024
Quant Method : I:\8270\Dakota\240624RVT\FS240618RVT_14D_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Jun 25 20:11:47 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\240624RVT\ABN0624.D
: 2 - I:\8270\Dakota\240624RVT\ADP0624.D
: 3 - I:\8270\Dakota\240624RVT\AP90624.D
Sub List : 8270TCL_combo_REV1 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Target Compounds						Qvalue
6) 2-Chlorophenol	0.000		0	N.D.		
8) Phenol	0.000		0	N.D.		
9) Bis(2-chloroethyl)ether	0.000		0	N.D.		
14) Bis(2-chloroisopropyl)...	0.000		0	N.D.		
15) 2-Methylphenol	0.000		0	N.D.		
17) n-Nitrosodi-n-propylamine	0.000		0	N.D.	d	
18) 3-Methylphenol/4-Methy...	0.000		0	N.D.		
20) Nitrobenzene	0.000		0	N.D.		
21) Isophorone	0.000		0	N.D.		
22) 2-Nitrophenol	0.000		0	N.D.		
23) 2,4-Dimethylphenol	0.000		0	N.D.		
24) Bis(2-chloroethoxy)met...	0.000		0	N.D.		
25) 2,4-Dichlorophenol	0.000		0	N.D.		
28) Benzaldehyde	0.000		0	N.D.		
29) Acetophenone	0.000		0	N.D.		
38) 4-Chloroaniline	0.000		0	N.D.		
40) p-Chloro-m-cresol	0.000		0	N.D.		
43) Hexachlorocyclopentadiene	0.000		0	N.D.		
44) 2,4,6-Trichlorophenol	0.000		0	N.D.		
45) 2,4,5-Trichlorophenol	0.000		0	N.D.		
48) 2-Nitroaniline	0.000		0	N.D.		
51) Dimethyl phthalate	0.000		0	N.D.	d	
53) 2,6-Dinitrotoluene	0.000		0	N.D.	d	
60) Caprolactam	0.000		0	N.D.		
61) 1,2,4,5-Tetrachloroben...	0.000		0	N.D.		
62) Biphenyl	0.000		0	N.D.		
64) 3-Nitroaniline	0.000		0	N.D.		
66) 2,4-Dinitrophenol	0.000		0	N.D.		
67) Dibenzofuran	0.000		0	N.D.		
68) 2,4-Dinitrotoluene	0.000		0	N.D.	d	
69) 4-Nitrophenol	0.000		0	N.D.		
71) 2,3,4,6-Tetrachlorophenol	0.000		0	N.D.		
72) Diethyl phthalate	0.000		0	N.D.		
74) 4-Chlorophenyl phenyl ...	0.000		0	N.D.		
75) 4-Nitroaniline	0.000		0	N.D.		
76) 4,6-Dinitro-o-cresol	0.000		0	N.D.		

Data Path : I:\8270\Dakota\240624RVT\
Data File : 34679-09.D
Acq On : 24 Jun 2024 10:14 pm
Operator : Dakota:jg
Sample : L2434679-09,32,,HNY
Misc : WG1938645,WG1938279,ical21225
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Jun 25 20:26:04 2024
Quant Method : I:\8270\Dakota\240624RVT\FS240618RVT_14D_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Jun 25 20:11:47 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\240624RVT\ABN0624.D
: 2 - I:\8270\Dakota\240624RVT\ADP0624.D
: 3 - I:\8270\Dakota\240624RVT\AP90624.D
Sub List : 8270TCL_combo_REV1 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
77) NDPA/DPA	0.000		0	N.D.		
80) 4-Bromophenyl phenyl e...	0.000		0	N.D.		
87) Atrazine	0.000		0	N.D.		
91) Carbazole	0.000		0	N.D.		
92) Di-n-butylphthalate	0.000		0	N.D.	d	
97) Butyl benzyl phthalate	0.000		0	N.D.		
106) 3,3'-Dichlorobenzidine	0.000		0	N.D.		
108) Bis(2-ethylhexyl)phtha...	0.000		0	N.D.	d	
109) Di-n-octylphthalate	0.000		0	N.D.	d	

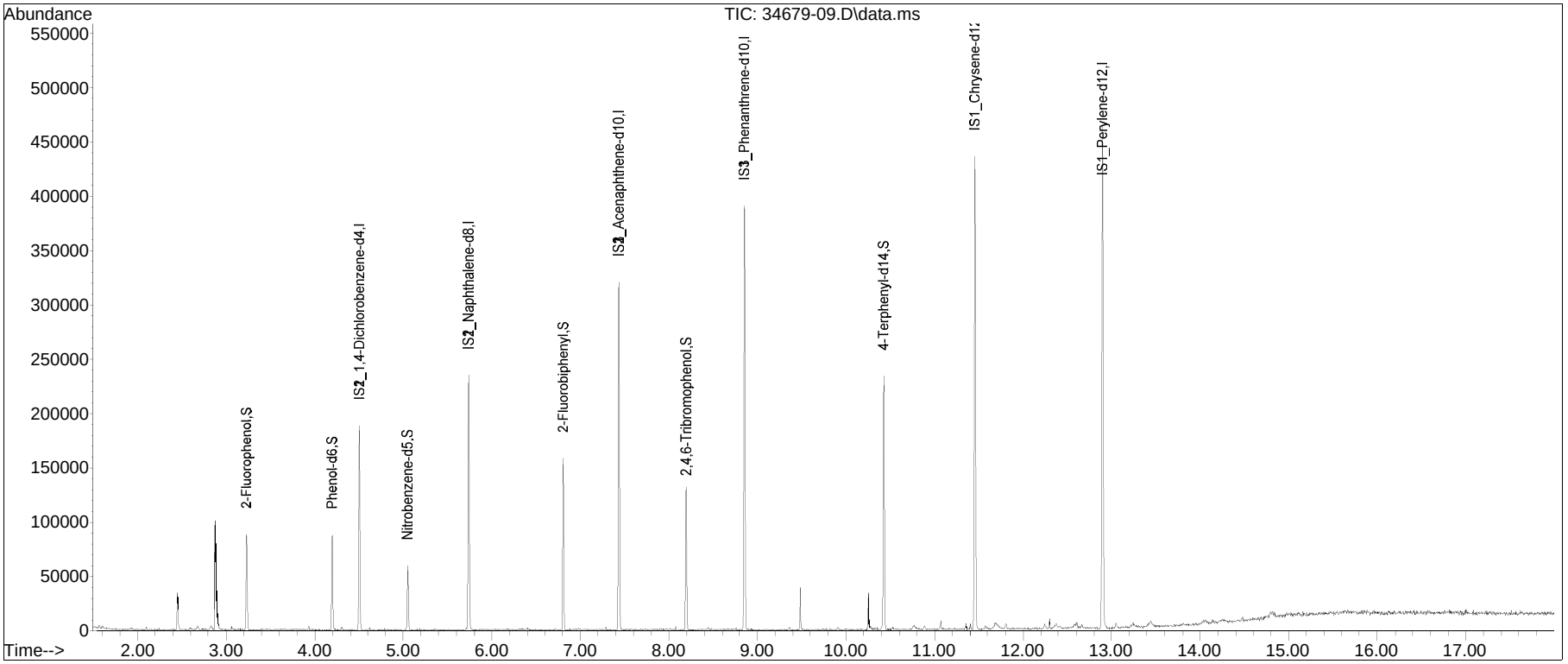
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\240624RVT\
Data File : 34679-09.D
Acq On : 24 Jun 2024 10:14 pm
Operator : Dakota:jg
Sample : L2434679-09,32,,HNY
Misc : WG1938645,WG1938279,ical21225
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Jun 25 20:26:04 2024
Quant Method : I:\8270\Dakota\240624RVT\FS240618RVT_14D_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Jun 25 20:11:47 2024
Response via : Initial Calibration

Sub List : 8270TCL_combo_REV1 - TCL/CT/MAP90624.D•



Manual Integration Report

Data Path	: I:\8270\Dakota\240624RVT\	QMethod	: FS240618RVT_14D_Dakota.m
Data File	: 34679-09.D	Operator	: Dakota:jg
Date Inj'd	: 6/24/2024 10:14 pm	Instrument	: Dakota
Sample	: L2434679-09,32,,HNY	Quant Date	: 6/25/2024 8:12 pm

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\240624RVT\
Data File : 34679-11.D
Acq On : 24 Jun 2024 10:37 pm
Operator : Dakota:jg
Sample : L2434679-11,32,,HNY
Misc : WG1938645,WG1938279,ical21225
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Jun 25 20:26:17 2024
Quant Method : I:\8270\Dakota\240624RVT\FS240618RVT_14D_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Jun 25 20:11:47 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\240624RVT\ABN0624.D
: 2 - I:\8270\Dakota\240624RVT\ADP0624.D
: 3 - I:\8270\Dakota\240624RVT\AP90624.D
Sub List : 8270TCL_combo_REV1 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) IS1_1,4-Dichlorobenzen...	4.505	152	36078	4.000	ug/ml	0.00
Standard Area 1 = 25255			Recovery = 142.85%			
27) IS2_1,4-Dichlorobenzen...	4.505	152	36078	4.000	ug/ml	0.00
Standard Area 3 = 26504			Recovery = 136.12%			
35) IS1_Naphthalene-d8	5.739	136	126074	4.000	ug/ml	0.00
Standard Area 1 = 92102			Recovery = 136.89%			
55) IS2_Naphthalene-d8	5.739	136	126074	4.000	ug/ml	0.00
Standard Area 3 = 100155			Recovery = 125.88%			
63) IS1_Acenaphthene-d10	7.436	164	83815	4.000	ug/ml	0.00
Standard Area 1 = 69151			Recovery = 121.21%			
83) IS2_Acenaphthene-d10	7.436	164	83815	4.000	ug/ml	0.00
Standard Area 3 = 69129			Recovery = 121.24%			
86) IS3_Acenaphthene-d10	7.436	164	83815	4.000	ug/ml	0.00
Standard Area 2 = 63201			Recovery = 132.62%			
88) IS1_Phenanthrene-d10	8.856	188	196932	4.000	ug/ml	0.00
Standard Area 1 = 156078			Recovery = 126.18%			
100) IS3_Phenanthrene-d10	8.856	188	196932	4.000	ug/ml	0.00
Standard Area 2 = 157977			Recovery = 124.66%			
104) IS1_Chrysene-d12	11.458	240	199574	4.000	ug/ml	0.00
Standard Area 1 = 161664			Recovery = 123.45%			
113) IS1_Perylene-d12	12.903	264	240473	4.000	ug/ml	0.00
Standard Area 1 = 190313			Recovery = 126.36%			
System Monitoring Compounds						
4) 2-Fluorophenol	3.234	112	19256	2.077	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 103.85%			
7) Phenol-d6	4.194	99	18839	1.610	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 80.50%			
19) Nitrobenzene-d5	5.049	82	14188	1.162	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 116.20%			
46) 2-Fluorobiphenyl	6.808	172	37240	1.178	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 117.80%			
79) 2,4,6-Tribromophenol	8.194	330	12624	2.305	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 115.25%#			
96) 4-Terphenyl-d14	10.429	244	60636	1.184	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 118.40%			

Data Path : I:\8270\Dakota\240624RVT\
Data File : 34679-11.D
Acq On : 24 Jun 2024 10:37 pm
Operator : Dakota:jg
Sample : L2434679-11,32,,HNY
Misc : WG1938645,WG1938279,ical21225
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Jun 25 20:26:17 2024
Quant Method : I:\8270\Dakota\240624RVT\FS240618RVT_14D_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Jun 25 20:11:47 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\240624RVT\ABN0624.D
: 2 - I:\8270\Dakota\240624RVT\ADP0624.D
: 3 - I:\8270\Dakota\240624RVT\AP90624.D
Sub List : 8270TCL_combo_REV1 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Target Compounds						Qvalue
6) 2-Chlorophenol	0.000		0	N.D.		
8) Phenol	0.000		0	N.D.		
9) Bis(2-chloroethyl)ether	0.000		0	N.D.		
14) Bis(2-chloroisopropyl)...	0.000		0	N.D.		
15) 2-Methylphenol	0.000		0	N.D.		
17) n-Nitrosodi-n-propylamine	0.000		0	N.D.	d	
18) 3-Methylphenol/4-Methy...	0.000		0	N.D.		
20) Nitrobenzene	0.000		0	N.D.		
21) Isophorone	0.000		0	N.D.		
22) 2-Nitrophenol	0.000		0	N.D.		
23) 2,4-Dimethylphenol	0.000		0	N.D.		
24) Bis(2-chloroethoxy)met...	0.000		0	N.D.		
25) 2,4-Dichlorophenol	0.000		0	N.D.		
28) Benzaldehyde	0.000		0	N.D.		
29) Acetophenone	0.000		0	N.D.		
38) 4-Chloroaniline	0.000		0	N.D.		
40) p-Chloro-m-cresol	0.000		0	N.D.		
43) Hexachlorocyclopentadiene	0.000		0	N.D.		
44) 2,4,6-Trichlorophenol	0.000		0	N.D.		
45) 2,4,5-Trichlorophenol	0.000		0	N.D.		
48) 2-Nitroaniline	0.000		0	N.D.		
51) Dimethyl phthalate	0.000		0	N.D.	d	
53) 2,6-Dinitrotoluene	0.000		0	N.D.	d	
60) Caprolactam	0.000		0	N.D.		
61) 1,2,4,5-Tetrachloroben...	0.000		0	N.D.		
62) Biphenyl	0.000		0	N.D.		
64) 3-Nitroaniline	0.000		0	N.D.		
66) 2,4-Dinitrophenol	0.000		0	N.D.		
67) Dibenzofuran	0.000		0	N.D.		
68) 2,4-Dinitrotoluene	0.000		0	N.D.	d	
69) 4-Nitrophenol	0.000		0	N.D.		
71) 2,3,4,6-Tetrachlorophenol	0.000		0	N.D.		
72) Diethyl phthalate	0.000		0	N.D.		
74) 4-Chlorophenyl phenyl ...	0.000		0	N.D.		
75) 4-Nitroaniline	0.000		0	N.D.		
76) 4,6-Dinitro-o-cresol	0.000		0	N.D.		

Data Path : I:\8270\Dakota\240624RVT\
Data File : 34679-11.D
Acq On : 24 Jun 2024 10:37 pm
Operator : Dakota:jg
Sample : L2434679-11,32,,HNY
Misc : WG1938645,WG1938279,ical21225
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Jun 25 20:26:17 2024
Quant Method : I:\8270\Dakota\240624RVT\FS240618RVT_14D_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Jun 25 20:11:47 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\240624RVT\ABN0624.D
: 2 - I:\8270\Dakota\240624RVT\ADP0624.D
: 3 - I:\8270\Dakota\240624RVT\AP90624.D
Sub List : 8270TCL_combo_REV1 - TCL/CT/MA

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
77)	NDPA/DPA	0.000		0	N.D.		
80)	4-Bromophenyl phenyl e...	0.000		0	N.D.		
87)	Atrazine	0.000		0	N.D.		
91)	Carbazole	0.000		0	N.D.		
92)	Di-n-butylphthalate	0.000		0	N.D.		
97)	Butyl benzyl phthalate	0.000		0	N.D.		
106)	3,3'-Dichlorobenzidine	0.000		0	N.D.		
108)	Bis(2-ethylhexyl)phtha...	0.000		0	N.D.	d	
109)	Di-n-octylphthalate	0.000		0	N.D.	d	

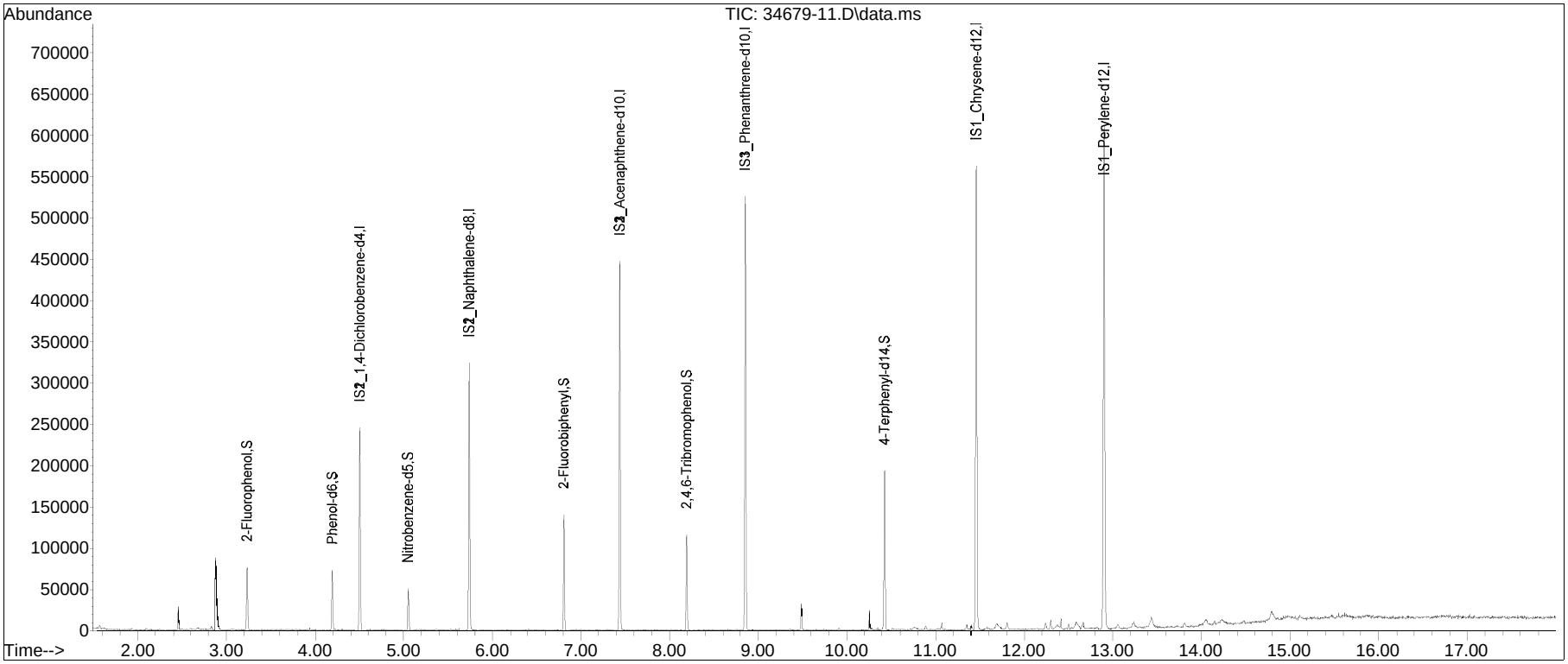
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\240624RVT\
Data File : 34679-11.D
Acq On : 24 Jun 2024 10:37 pm
Operator : Dakota:jg
Sample : L2434679-11,32,,HNY
Misc : WG1938645,WG1938279,ical21225
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Jun 25 20:26:17 2024
Quant Method : I:\8270\Dakota\240624RVT\FS240618RVT_14D_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Jun 25 20:11:47 2024
Response via : Initial Calibration

Sub List : 8270TCL_combo_REV1 - TCL/CT/MAP90624.D•



Manual Integration Report

Data Path	: I:\8270\Dakota\240624RVT\	QMethod	: FS240618RVT_14D_Dakota.m
Data File	: 34679-11.D	Operator	: Dakota:jg
Date Inj'd	: 6/24/2024 10:37 pm	Instrument	: Dakota
Sample	: L2434679-11,32,,HNY	Quant Date	: 6/25/2024 8:12 pm

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\240624RVT\
Data File : 34679-12.D
Acq On : 24 Jun 2024 10:59 pm
Operator : Dakota:jg
Sample : L2434679-12,32,,HNY
Misc : WG1938645,WG1938279,ical21225
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Jun 25 20:26:30 2024
Quant Method : I:\8270\Dakota\240624RVT\FS240618RVT_14D_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Jun 25 20:11:47 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\240624RVT\ABN0624.D
: 2 - I:\8270\Dakota\240624RVT\ADP0624.D
: 3 - I:\8270\Dakota\240624RVT\AP90624.D
Sub List : 8270TCL_combo_REV1 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) IS1_1,4-Dichlorobenzen...	4.505	152	31637	4.000	ug/ml	0.00
Standard Area 1 = 25255			Recovery = 125.27%			
27) IS2_1,4-Dichlorobenzen...	4.505	152	31637	4.000	ug/ml	0.00
Standard Area 3 = 26504			Recovery = 119.37%			
35) IS1_Naphthalene-d8	5.739	136	110038	4.000	ug/ml	0.00
Standard Area 1 = 92102			Recovery = 119.47%			
55) IS2_Naphthalene-d8	5.739	136	110038	4.000	ug/ml	0.00
Standard Area 3 = 100155			Recovery = 109.87%			
63) IS1_Acenaphthene-d10	7.436	164	72205	4.000	ug/ml	0.00
Standard Area 1 = 69151			Recovery = 104.42%			
83) IS2_Acenaphthene-d10	7.436	164	72205	4.000	ug/ml	0.00
Standard Area 3 = 69129			Recovery = 104.45%			
86) IS3_Acenaphthene-d10	7.436	164	72205	4.000	ug/ml	0.00
Standard Area 2 = 63201			Recovery = 114.25%			
88) IS1_Phenanthrene-d10	8.856	188	167403	4.000	ug/ml	0.00
Standard Area 1 = 156078			Recovery = 107.26%			
100) IS3_Phenanthrene-d10	8.856	188	167403	4.000	ug/ml	0.00
Standard Area 2 = 157977			Recovery = 105.97%			
104) IS1_Chrysene-d12	11.455	240	168314	4.000	ug/ml	0.00
Standard Area 1 = 161664			Recovery = 104.11%			
113) IS1_Perylene-d12	12.900	264	206868	4.000	ug/ml	0.00
Standard Area 1 = 190313			Recovery = 108.70%			
System Monitoring Compounds						
4) 2-Fluorophenol	3.231	112	18973	2.334	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 116.70%#			
7) Phenol-d6	4.194	99	19520	1.902	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 95.10%			
19) Nitrobenzene-d5	5.049	82	13438	1.255	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 125.50%			
46) 2-Fluorobiphenyl	6.808	172	37667	1.366	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 136.60%#			
79) 2,4,6-Tribromophenol	8.194	330	13040	2.763	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 138.15%#			
96) 4-Terphenyl-d14	10.426	244	62479	1.435	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 143.50%#			

Data Path : I:\8270\Dakota\240624RVT\
Data File : 34679-12.D
Acq On : 24 Jun 2024 10:59 pm
Operator : Dakota:jg
Sample : L2434679-12,32,,HNY
Misc : WG1938645,WG1938279,ical21225
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Jun 25 20:26:30 2024
Quant Method : I:\8270\Dakota\240624RVT\FS240618RVT_14D_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Jun 25 20:11:47 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\240624RVT\ABN0624.D
: 2 - I:\8270\Dakota\240624RVT\ADP0624.D
: 3 - I:\8270\Dakota\240624RVT\AP90624.D
Sub List : 8270TCL_combo_REV1 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Target Compounds						Qvalue
6) 2-Chlorophenol	0.000		0	N.D.		
8) Phenol	0.000		0	N.D.		
9) Bis(2-chloroethyl)ether	0.000		0	N.D.		
14) Bis(2-chloroisopropyl)...	0.000		0	N.D.		
15) 2-Methylphenol	0.000		0	N.D.		
17) n-Nitrosodi-n-propylamine	0.000		0	N.D.	d	
18) 3-Methylphenol/4-Methy...	0.000		0	N.D.		
20) Nitrobenzene	0.000		0	N.D.		
21) Isophorone	0.000		0	N.D.		
22) 2-Nitrophenol	0.000		0	N.D.		
23) 2,4-Dimethylphenol	0.000		0	N.D.		
24) Bis(2-chloroethoxy)met...	0.000		0	N.D.		
25) 2,4-Dichlorophenol	0.000		0	N.D.		
28) Benzaldehyde	0.000		0	N.D.		
29) Acetophenone	0.000		0	N.D.		
38) 4-Chloroaniline	0.000		0	N.D.		
40) p-Chloro-m-cresol	0.000		0	N.D.		
43) Hexachlorocyclopentadiene	0.000		0	N.D.		
44) 2,4,6-Trichlorophenol	0.000		0	N.D.		
45) 2,4,5-Trichlorophenol	0.000		0	N.D.		
48) 2-Nitroaniline	0.000		0	N.D.		
51) Dimethyl phthalate	0.000		0	N.D.	d	
53) 2,6-Dinitrotoluene	0.000		0	N.D.	d	
60) Caprolactam	0.000		0	N.D.		
61) 1,2,4,5-Tetrachloroben...	0.000		0	N.D.		
62) Biphenyl	0.000		0	N.D.		
64) 3-Nitroaniline	0.000		0	N.D.		
66) 2,4-Dinitrophenol	0.000		0	N.D.		
67) Dibenzofuran	0.000		0	N.D.		
68) 2,4-Dinitrotoluene	0.000		0	N.D.	d	
69) 4-Nitrophenol	0.000		0	N.D.		
71) 2,3,4,6-Tetrachlorophenol	0.000		0	N.D.		
72) Diethyl phthalate	0.000		0	N.D.		
74) 4-Chlorophenyl phenyl ...	0.000		0	N.D.		
75) 4-Nitroaniline	0.000		0	N.D.		
76) 4,6-Dinitro-o-cresol	0.000		0	N.D.		

Data Path : I:\8270\Dakota\240624RVT\
Data File : 34679-12.D
Acq On : 24 Jun 2024 10:59 pm
Operator : Dakota:jg
Sample : L2434679-12,32,,HNY
Misc : WG1938645,WG1938279,ical21225
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Jun 25 20:26:30 2024
Quant Method : I:\8270\Dakota\240624RVT\FS240618RVT_14D_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Jun 25 20:11:47 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\240624RVT\ABN0624.D
: 2 - I:\8270\Dakota\240624RVT\ADP0624.D
: 3 - I:\8270\Dakota\240624RVT\AP90624.D
Sub List : 8270TCL_combo_REV1 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
77) NDPA/DPA	0.000		0	N.D.	d	
80) 4-Bromophenyl phenyl e...	0.000		0	N.D.		
87) Atrazine	0.000		0	N.D.		
91) Carbazole	0.000		0	N.D.		
92) Di-n-butylphthalate	0.000		0	N.D.	d	
97) Butyl benzyl phthalate	0.000		0	N.D.		
106) 3,3'-Dichlorobenzidine	0.000		0	N.D.		
108) Bis(2-ethylhexyl)phtha...	0.000		0	N.D.	d	
109) Di-n-octylphthalate	0.000		0	N.D.	d	

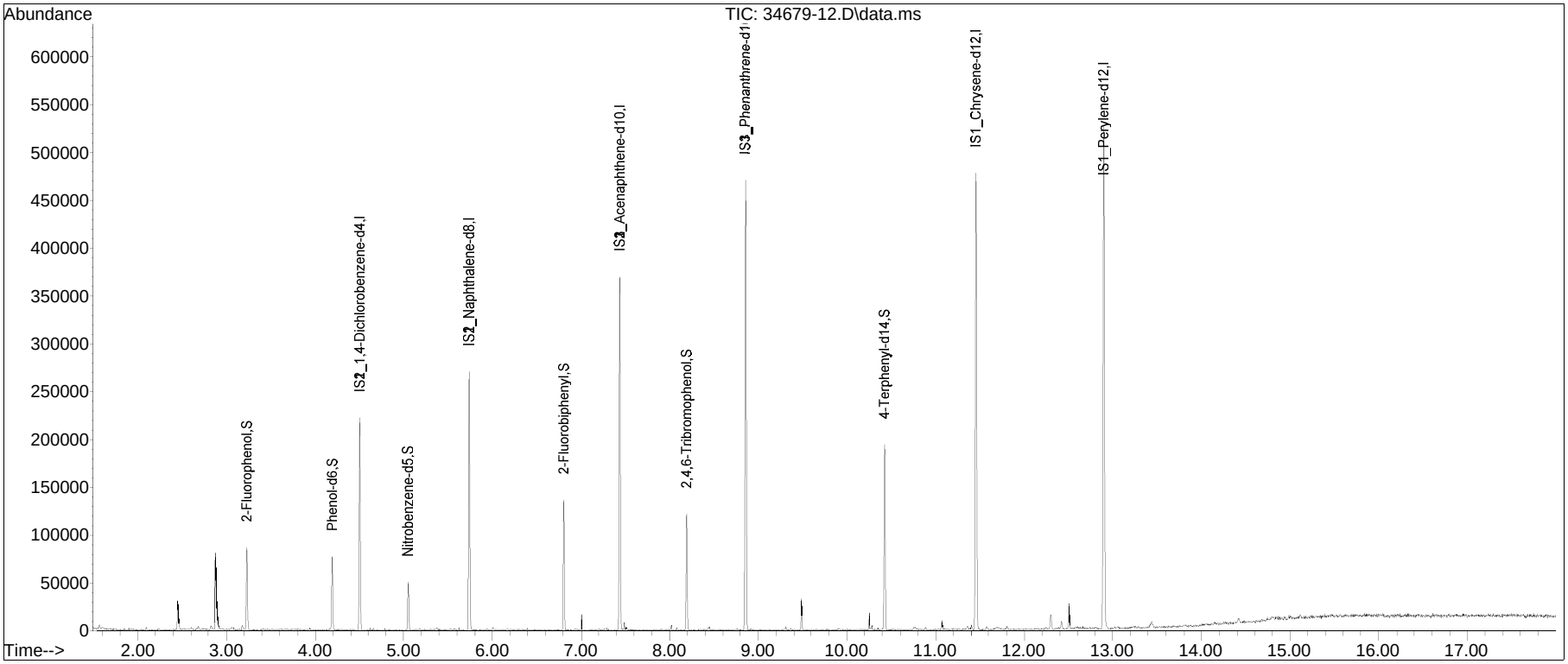
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\240624RVT\
Data File : 34679-12.D
Acq On : 24 Jun 2024 10:59 pm
Operator : Dakota:jg
Sample : L2434679-12,32,,HNY
Misc : WG1938645,WG1938279,ical21225
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Jun 25 20:26:30 2024
Quant Method : I:\8270\Dakota\240624RVT\FS240618RVT_14D_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Jun 25 20:11:47 2024
Response via : Initial Calibration

Sub List : 8270TCL_combo_REV1 - TCL/CT/MAP90624.D•



Manual Integration Report

Data Path	: I:\8270\Dakota\240624RVT\	QMethod	: FS240618RVT_14D_Dakota.m
Data File	: 34679-12.D	Operator	: Dakota:jg
Date Inj'd	: 6/24/2024 10:59 pm	Instrument	: Dakota
Sample	: L2434679-12,32,,HNY	Quant Date	: 6/25/2024 8:12 pm

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\240624RVT\
Data File : 34679-14.D
Acq On : 24 Jun 2024 11:22 pm
Operator : Dakota:jg
Sample : L2434679-14,32,,HNY
Misc : WG1938645,WG1938279,ical21225
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Jun 25 20:26:46 2024
Quant Method : I:\8270\Dakota\240624RVT\FS240618RVT_14D_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Jun 25 20:11:47 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\240624RVT\ABN0624.D
: 2 - I:\8270\Dakota\240624RVT\ADP0624.D
: 3 - I:\8270\Dakota\240624RVT\AP90624.D
Sub List : 8270TCL_combo_REV1 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) IS1_1,4-Dichlorobenzen...	4.505	152	34590	4.000	ug/ml		0.00
Standard Area 1 = 25255			Recovery = 136.96%				
27) IS2_1,4-Dichlorobenzen...	4.505	152	34590	4.000	ug/ml		0.00
Standard Area 3 = 26504			Recovery = 130.51%				
35) IS1_Naphthalene-d8	5.739	136	114416	4.000	ug/ml	#	0.00
Standard Area 1 = 92102			Recovery = 124.23%				
55) IS2_Naphthalene-d8	5.739	136	114416	4.000	ug/ml	#	0.00
Standard Area 3 = 100155			Recovery = 114.24%				
63) IS1_Acenaphthene-d10	7.436	164	73577	4.000	ug/ml		0.00
Standard Area 1 = 69151			Recovery = 106.40%				
83) IS2_Acenaphthene-d10	7.436	164	73577	4.000	ug/ml		0.00
Standard Area 3 = 69129			Recovery = 106.43%				
86) IS3_Acenaphthene-d10	7.436	164	73577	4.000	ug/ml		0.00
Standard Area 2 = 63201			Recovery = 116.42%				
88) IS1_Phenanthrene-d10	8.856	188	175621	4.000	ug/ml		0.00
Standard Area 1 = 156078			Recovery = 112.52%				
100) IS3_Phenanthrene-d10	8.856	188	175621	4.000	ug/ml		0.00
Standard Area 2 = 157977			Recovery = 111.17%				
104) IS1_Chrysene-d12	11.458	240	165890	4.000	ug/ml		0.00
Standard Area 1 = 161664			Recovery = 102.61%				
113) IS1_Perylene-d12	12.900	264	196271	4.000	ug/ml		0.00
Standard Area 1 = 190313			Recovery = 103.13%				
System Monitoring Compounds							
4) 2-Fluorophenol	3.231	112	20255	2.279	ug/ml		0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 113.95%#				
7) Phenol-d6	4.194	99	20286	1.808	ug/ml		0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 90.40%				
19) Nitrobenzene-d5	5.049	82	14655	1.251	ug/ml		0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 125.10%				
46) 2-Fluorobiphenyl	6.808	172	38838	1.354	ug/ml		0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 135.40%#				
79) 2,4,6-Tribromophenol	8.194	330	12678	2.636	ug/ml		0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 131.80%#				
96) 4-Terphenyl-d14	10.429	244	57977	1.270	ug/ml		0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 127.00%				

Data Path : I:\8270\Dakota\240624RVT\
Data File : 34679-14.D
Acq On : 24 Jun 2024 11:22 pm
Operator : Dakota:jg
Sample : L2434679-14,32,,HNY
Misc : WG1938645,WG1938279,ical21225
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Jun 25 20:26:46 2024
Quant Method : I:\8270\Dakota\240624RVT\FS240618RVT_14D_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Jun 25 20:11:47 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\240624RVT\ABN0624.D
: 2 - I:\8270\Dakota\240624RVT\ADP0624.D
: 3 - I:\8270\Dakota\240624RVT\AP90624.D
Sub List : 8270TCL_combo_REV1 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Target Compounds						Qvalue
6) 2-Chlorophenol	0.000		0	N.D.		
8) Phenol	0.000		0	N.D.		
9) Bis(2-chloroethyl)ether	0.000		0	N.D.		
14) Bis(2-chloroisopropyl)...	0.000		0	N.D.		
15) 2-Methylphenol	0.000		0	N.D.		
17) n-Nitrosodi-n-propylamine	0.000		0	N.D.	d	
18) 3-Methylphenol/4-Methy...	0.000		0	N.D.		
20) Nitrobenzene	0.000		0	N.D.		
21) Isophorone	0.000		0	N.D.		
22) 2-Nitrophenol	0.000		0	N.D.		
23) 2,4-Dimethylphenol	0.000		0	N.D.		
24) Bis(2-chloroethoxy)met...	0.000		0	N.D.		
25) 2,4-Dichlorophenol	0.000		0	N.D.		
28) Benzaldehyde	0.000		0	N.D.		
29) Acetophenone	0.000		0	N.D.		
38) 4-Chloroaniline	0.000		0	N.D.		
40) p-Chloro-m-cresol	0.000		0	N.D.		
43) Hexachlorocyclopentadiene	0.000		0	N.D.		
44) 2,4,6-Trichlorophenol	0.000		0	N.D.		
45) 2,4,5-Trichlorophenol	0.000		0	N.D.		
48) 2-Nitroaniline	0.000		0	N.D.		
51) Dimethyl phthalate	0.000		0	N.D.	d	
53) 2,6-Dinitrotoluene	0.000		0	N.D.	d	
60) Caprolactam	0.000		0	N.D.		
61) 1,2,4,5-Tetrachloroben...	0.000		0	N.D.		
62) Biphenyl	0.000		0	N.D.		
64) 3-Nitroaniline	0.000		0	N.D.		
66) 2,4-Dinitrophenol	0.000		0	N.D.		
67) Dibenzofuran	0.000		0	N.D.		
68) 2,4-Dinitrotoluene	0.000		0	N.D.	d	
69) 4-Nitrophenol	0.000		0	N.D.		
71) 2,3,4,6-Tetrachlorophenol	0.000		0	N.D.		
72) Diethyl phthalate	0.000		0	N.D.		
74) 4-Chlorophenyl phenyl ...	0.000		0	N.D.		
75) 4-Nitroaniline	0.000		0	N.D.		
76) 4,6-Dinitro-o-cresol	0.000		0	N.D.		

Data Path : I:\8270\Dakota\240624RVT\
Data File : 34679-14.D
Acq On : 24 Jun 2024 11:22 pm
Operator : Dakota:jg
Sample : L2434679-14,32,,HNY
Misc : WG1938645,WG1938279,ical21225
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Jun 25 20:26:46 2024
Quant Method : I:\8270\Dakota\240624RVT\FS240618RVT_14D_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Jun 25 20:11:47 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\240624RVT\ABN0624.D
: 2 - I:\8270\Dakota\240624RVT\ADP0624.D
: 3 - I:\8270\Dakota\240624RVT\AP90624.D
Sub List : 8270TCL_combo_REV1 - TCL/CT/MA

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
77)	NDPA/DPA	0.000		0	N.D.		
80)	4-Bromophenyl phenyl e...	0.000		0	N.D.		
87)	Atrazine	0.000		0	N.D.		
91)	Carbazole	0.000		0	N.D.		
92)	Di-n-butylphthalate	0.000		0	N.D.	d	
97)	Butyl benzyl phthalate	0.000		0	N.D.		
106)	3,3'-Dichlorobenzidine	0.000		0	N.D.		
108)	Bis(2-ethylhexyl)phtha...	0.000		0	N.D.	d	
109)	Di-n-octylphthalate	0.000		0	N.D.	d	

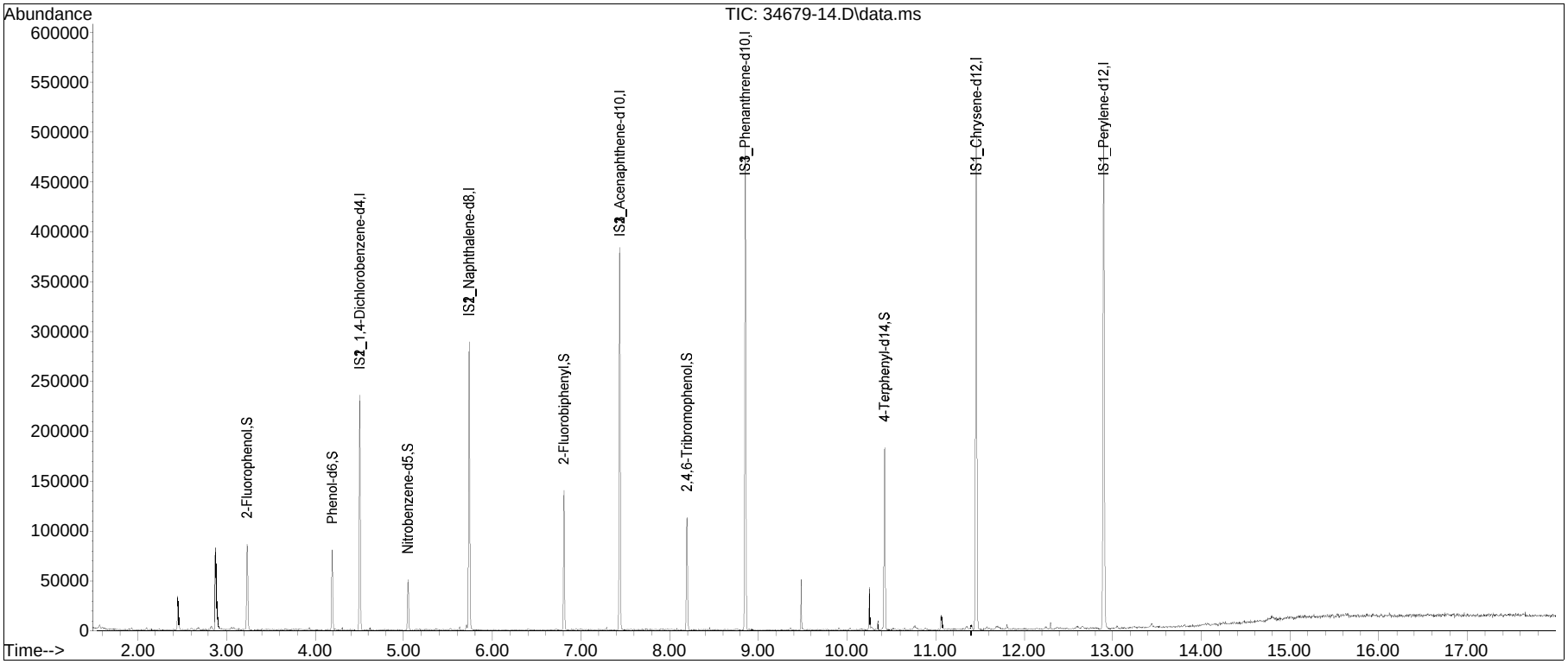
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\240624RVT\
Data File : 34679-14.D
Acq On : 24 Jun 2024 11:22 pm
Operator : Dakota:jg
Sample : L2434679-14,32,,HNY
Misc : WG1938645,WG1938279,ical21225
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Jun 25 20:26:46 2024
Quant Method : I:\8270\Dakota\240624RVT\FS240618RVT_14D_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Jun 25 20:11:47 2024
Response via : Initial Calibration

Sub List : 8270TCL_combo_REV1 - TCL/CT/MAP90624.D•



Manual Integration Report

Data Path	: I:\8270\Dakota\240624RVT\	QMethod	: FS240618RVT_14D_Dakota.m
Data File	: 34679-14.D	Operator	: Dakota:jg
Date Inj'd	: 6/24/2024 11:22 pm	Instrument	: Dakota
Sample	: L2434679-14,32,,HNY	Quant Date	: 6/25/2024 8:12 pm

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\240624RVT\
Data File : 34679-02.D
Acq On : 24 Jun 2024 11:45 pm
Operator : Dakota:jg
Sample : L2434679-02,32,,HNY
Misc : WG1938645,WG1938279,ical21225
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Jun 25 20:24:41 2024
Quant Method : I:\8270\Dakota\240624RVT\FS240618RVT_14D_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Jun 25 20:11:47 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\240624RVT\ABN0624.D
: 2 - I:\8270\Dakota\240624RVT\ADP0624.D
: 3 - I:\8270\Dakota\240624RVT\AP90624.D
Sub List : 8270TCL_combo_REV1 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) IS1_1,4-Dichlorobenzen...	4.505	152	33457	4.000	ug/ml	0.00
Standard Area 1 = 25255			Recovery = 132.48%			
27) IS2_1,4-Dichlorobenzen...	4.505	152	33457	4.000	ug/ml	0.00
Standard Area 3 = 26504			Recovery = 126.23%			
35) IS1_Naphthalene-d8	5.739	136	116537	4.000	ug/ml	0.00
Standard Area 1 = 92102			Recovery = 126.53%			
55) IS2_Naphthalene-d8	5.739	136	116537	4.000	ug/ml	0.00
Standard Area 3 = 100155			Recovery = 116.36%			
63) IS1_Acenaphthene-d10	7.436	164	77899	4.000	ug/ml	0.00
Standard Area 1 = 69151			Recovery = 112.65%			
83) IS2_Acenaphthene-d10	7.436	164	77899	4.000	ug/ml	0.00
Standard Area 3 = 69129			Recovery = 112.69%			
86) IS3_Acenaphthene-d10	7.436	164	77899	4.000	ug/ml	0.00
Standard Area 2 = 63201			Recovery = 123.26%			
88) IS1_Phenanthrene-d10	8.856	188	181419	4.000	ug/ml	0.00
Standard Area 1 = 156078			Recovery = 116.24%			
100) IS3_Phenanthrene-d10	8.856	188	181419	4.000	ug/ml	0.00
Standard Area 2 = 157977			Recovery = 114.84%			
104) IS1_Chrysene-d12	11.458	240	186338	4.000	ug/ml	0.00
Standard Area 1 = 161664			Recovery = 115.26%			
113) IS1_Perylene-d12	12.903	264	223615	4.000	ug/ml	0.00
Standard Area 1 = 190313			Recovery = 117.50%			
System Monitoring Compounds						
4) 2-Fluorophenol	3.234	112	19122	2.224	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 111.20%#			
7) Phenol-d6	4.194	99	20585	1.897	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 94.85%			
19) Nitrobenzene-d5	5.049	82	13156	1.162	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 116.20%			
46) 2-Fluorobiphenyl	6.808	172	36463	1.248	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 124.80%			
79) 2,4,6-Tribromophenol	8.197	330	12273	2.411	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 120.55%#			
96) 4-Terphenyl-d14	10.429	244	61151	1.296	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 129.60%			

Data Path : I:\8270\Dakota\240624RVT\
Data File : 34679-02.D
Acq On : 24 Jun 2024 11:45 pm
Operator : Dakota:jg
Sample : L2434679-02,32,,HNY
Misc : WG1938645,WG1938279,ical21225
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Jun 25 20:24:41 2024
Quant Method : I:\8270\Dakota\240624RVT\FS240618RVT_14D_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Jun 25 20:11:47 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\240624RVT\ABN0624.D
: 2 - I:\8270\Dakota\240624RVT\ADP0624.D
: 3 - I:\8270\Dakota\240624RVT\AP90624.D
Sub List : 8270TCL_combo_REV1 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Target Compounds						Qvalue
6) 2-Chlorophenol	0.000		0	N.D.		
8) Phenol	0.000		0	N.D.		
9) Bis(2-chloroethyl)ether	0.000		0	N.D.		
14) Bis(2-chloroisopropyl)...	0.000		0	N.D.		
15) 2-Methylphenol	0.000		0	N.D.		
17) n-Nitrosodi-n-propylamine	0.000		0	N.D.	d	
18) 3-Methylphenol/4-Methy...	0.000		0	N.D.		
20) Nitrobenzene	0.000		0	N.D.		
21) Isophorone	0.000		0	N.D.		
22) 2-Nitrophenol	0.000		0	N.D.		
23) 2,4-Dimethylphenol	0.000		0	N.D.		
24) Bis(2-chloroethoxy)met...	0.000		0	N.D.		
25) 2,4-Dichlorophenol	0.000		0	N.D.		
28) Benzaldehyde	0.000		0	N.D.		
29) Acetophenone	0.000		0	N.D.		
38) 4-Chloroaniline	0.000		0	N.D.		
40) p-Chloro-m-cresol	0.000		0	N.D.		
43) Hexachlorocyclopentadiene	0.000		0	N.D.		
44) 2,4,6-Trichlorophenol	0.000		0	N.D.		
45) 2,4,5-Trichlorophenol	0.000		0	N.D.		
48) 2-Nitroaniline	0.000		0	N.D.		
51) Dimethyl phthalate	0.000		0	N.D.	d	
53) 2,6-Dinitrotoluene	0.000		0	N.D.	d	
60) Caprolactam	0.000		0	N.D.		
61) 1,2,4,5-Tetrachloroben...	0.000		0	N.D.		
62) Biphenyl	0.000		0	N.D.		
64) 3-Nitroaniline	0.000		0	N.D.		
66) 2,4-Dinitrophenol	0.000		0	N.D.		
67) Dibenzofuran	0.000		0	N.D.		
68) 2,4-Dinitrotoluene	0.000		0	N.D.	d	
69) 4-Nitrophenol	0.000		0	N.D.		
71) 2,3,4,6-Tetrachlorophenol	0.000		0	N.D.		
72) Diethyl phthalate	0.000		0	N.D.		
74) 4-Chlorophenyl phenyl ...	0.000		0	N.D.		
75) 4-Nitroaniline	0.000		0	N.D.		
76) 4,6-Dinitro-o-cresol	0.000		0	N.D.		

Data Path : I:\8270\Dakota\240624RVT\
Data File : 34679-02.D
Acq On : 24 Jun 2024 11:45 pm
Operator : Dakota:jg
Sample : L2434679-02,32,,HNY
Misc : WG1938645,WG1938279,ical21225
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Jun 25 20:24:41 2024
Quant Method : I:\8270\Dakota\240624RVT\FS240618RVT_14D_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Jun 25 20:11:47 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\240624RVT\ABN0624.D
: 2 - I:\8270\Dakota\240624RVT\ADP0624.D
: 3 - I:\8270\Dakota\240624RVT\AP90624.D
Sub List : 8270TCL_combo_REV1 - TCL/CT/MA

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
77)	NDPA/DPA	0.000		0	N.D.		
80)	4-Bromophenyl phenyl e...	0.000		0	N.D.		
87)	Atrazine	0.000		0	N.D.		
91)	Carbazole	0.000		0	N.D.		
92)	Di-n-butylphthalate	0.000		0	N.D.	d	
97)	Butyl benzyl phthalate	0.000		0	N.D.		
106)	3,3'-Dichlorobenzidine	0.000		0	N.D.		
108)	Bis(2-ethylhexyl)phtha...	0.000		0	N.D.	d	
109)	Di-n-octylphthalate	0.000		0	N.D.	d	

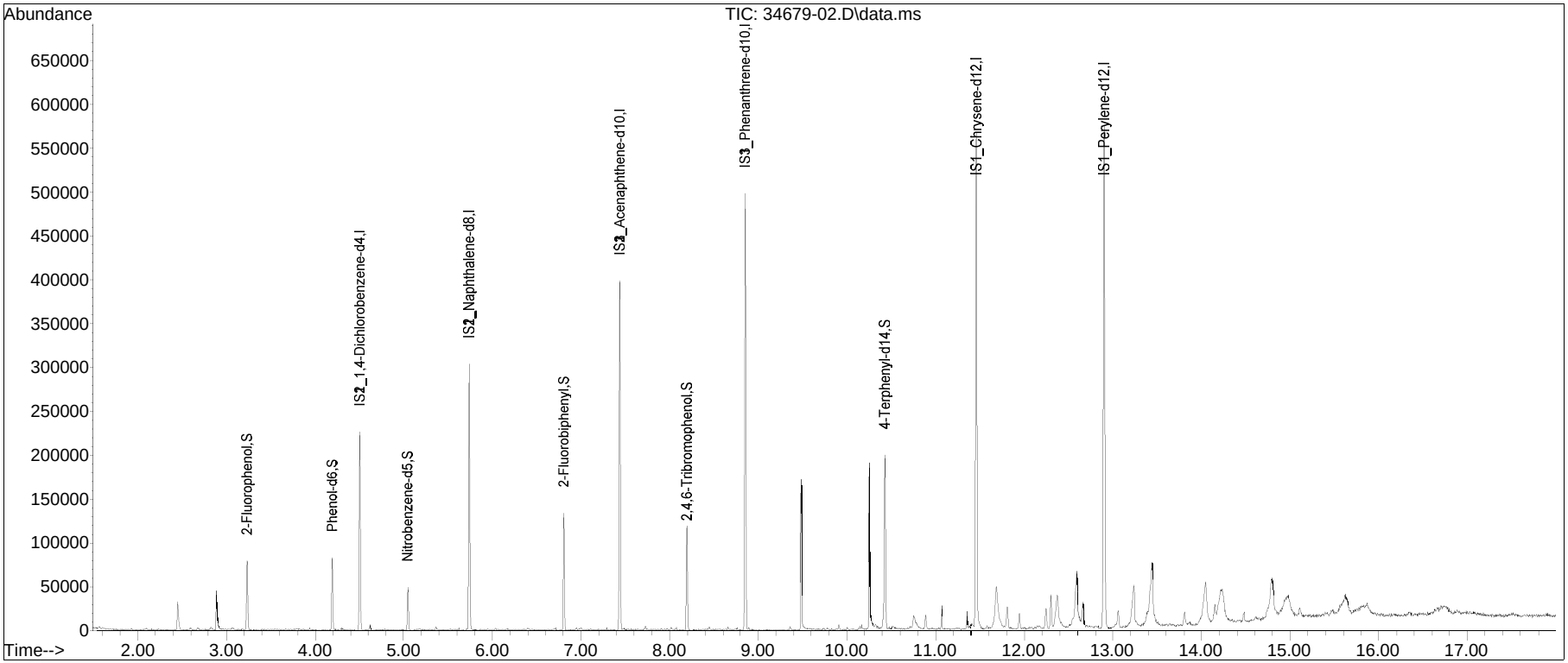
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\240624RVT\
Data File : 34679-02.D
Acq On : 24 Jun 2024 11:45 pm
Operator : Dakota:jg
Sample : L2434679-02,32,,HNY
Misc : WG1938645,WG1938279,ical21225
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Jun 25 20:24:41 2024
Quant Method : I:\8270\Dakota\240624RVT\FS240618RVT_14D_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Jun 25 20:11:47 2024
Response via : Initial Calibration

Sub List : 8270TCL_combo_REV1 - TCL/CT/MAP90624.D•



Manual Integration Report

Data Path	: I:\8270\Dakota\240624RVT\	QMethod	: FS240618RVT_14D_Dakota.m
Data File	: 34679-02.D	Operator	: Dakota:jg
Date Inj'd	: 6/24/2024 11:45 pm	Instrument	: Dakota
Sample	: L2434679-02,32,,HNY	Quant Date	: 6/25/2024 8:12 pm

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\240625RVT\
Data File : 34679-01.D
Acq On : 25 Jun 2024 12:12 pm
Operator : Dakota:ljg
Sample : L2434679-01,32,,gmr
Misc : WG1938967,WG1938723,ical21225
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jun 26 09:02:30 2024
Quant Method : I:\8270\dakota\240625RVT\FS240618RVT_14D_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Jun 25 12:31:04 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\dakota\240625RVT\ABN0625.D
: 2 - I:\8270\dakota\240625RVT\ADP0625.D
: 3 - I:\8270\dakota\240625RVT\AP90625.D
Sub List : 8270TCL_combo_REV1 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) IS1_1,4-Dichlorobenzen...	4.486	152	47121	4.000	ug/ml		0.00
Standard Area 1 = 26257			Recovery = 179.46%				
27) IS2_1,4-Dichlorobenzen...	4.486	152	47121	4.000	ug/ml		0.00
Standard Area 3 = 27010			Recovery = 174.46%				
35) IS1_Naphthalene-d8	5.720	136	170168	4.000	ug/ml	#	0.00
Standard Area 1 = 95039			Recovery = 179.05%				
55) IS2_Naphthalene-d8	5.720	136	170168	4.000	ug/ml	#	0.00
Standard Area 3 = 101426			Recovery = 167.78%				
63) IS1_Acenaphthene-d10	7.417	164	118934	4.000	ug/ml		0.00
Standard Area 1 = 67008			Recovery = 177.49%				
83) IS2_Acenaphthene-d10	7.417	164	118934	4.000	ug/ml		0.00
Standard Area 3 = 69385			Recovery = 171.41%				
86) IS3_Acenaphthene-d10	7.417	164	118934	4.000	ug/ml		0.00
Standard Area 2 = 69313			Recovery = 171.59%				
88) IS1_Phenanthrene-d10	8.837	188	276893	4.000	ug/ml		0.00
Standard Area 1 = 156879			Recovery = 176.50%				
100) IS3_Phenanthrene-d10	8.837	188	276893	4.000	ug/ml		0.00
Standard Area 2 = 162640			Recovery = 170.25%				
104) IS1_Chrysene-d12	11.436	240	288315	4.000	ug/ml		0.00
Standard Area 1 = 168902			Recovery = 170.70%				
113) IS1_Perylene-d12	12.878	264	353200	4.000	ug/ml		0.00
Standard Area 1 = 203294			Recovery = 173.74%				
System Monitoring Compounds							
4) 2-Fluorophenol	3.212	112	14746	1.218	ug/ml		0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 60.90%				
7) Phenol-d6	4.175	99	16066	1.051	ug/ml		0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 52.55%				
19) Nitrobenzene-d5	5.030	82	12554	0.787	ug/ml		0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 78.70%				
46) 2-Fluorobiphenyl	6.789	172	34938	0.819	ug/ml		0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 81.90%				
79) 2,4,6-Tribromophenol	8.178	330	10929	1.406	ug/ml		0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 70.30%				
96) 4-Terphenyl-d14	10.410	244	58864	0.818	ug/ml		0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 81.80%				

Data Path : I:\8270\Dakota\240625RVT\
Data File : 34679-01.D
Acq On : 25 Jun 2024 12:12 pm
Operator : Dakota:ljg
Sample : L2434679-01,32,,gmr
Misc : WG1938967,WG1938723,ical21225
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jun 26 09:02:30 2024
Quant Method : I:\8270\dakota\240625RVT\FS240618RVT_14D_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Jun 25 12:31:04 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\dakota\240625RVT\ABN0625.D
: 2 - I:\8270\dakota\240625RVT\ADP0625.D
: 3 - I:\8270\dakota\240625RVT\AP90625.D
Sub List : 8270TCL_combo_REV1 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Target Compounds						Qvalue
6) 2-Chlorophenol	0.000		0	N.D.		
8) Phenol	0.000		0	N.D.		
9) Bis(2-chloroethyl)ether	0.000		0	N.D.		
14) Bis(2-chloroisopropyl)...	0.000		0	N.D.		
15) 2-Methylphenol	0.000		0	N.D.		
17) n-Nitrosodi-n-propylamine	0.000		0	N.D.	d	
18) 3-Methylphenol/4-Methy...	0.000		0	N.D.		
20) Nitrobenzene	0.000		0	N.D.		
21) Isophorone	0.000		0	N.D.		
22) 2-Nitrophenol	0.000		0	N.D.		
23) 2,4-Dimethylphenol	0.000		0	N.D.		
24) Bis(2-chloroethoxy)met...	0.000		0	N.D.		
25) 2,4-Dichlorophenol	0.000		0	N.D.		
28) Benzaldehyde	0.000		0	N.D.		
29) Acetophenone	0.000		0	N.D.		
38) 4-Chloroaniline	0.000		0	N.D.		
40) p-Chloro-m-cresol	0.000		0	N.D.		
43) Hexachlorocyclopentadiene	0.000		0	N.D.		
44) 2,4,6-Trichlorophenol	0.000		0	N.D.		
45) 2,4,5-Trichlorophenol	0.000		0	N.D.		
48) 2-Nitroaniline	0.000		0	N.D.		
51) Dimethyl phthalate	0.000		0	N.D.	d	
53) 2,6-Dinitrotoluene	0.000		0	N.D.	d	
60) Caprolactam	0.000		0	N.D.		
61) 1,2,4,5-Tetrachloroben...	0.000		0	N.D.		
62) Biphenyl	0.000		0	N.D.		
64) 3-Nitroaniline	0.000		0	N.D.		
66) 2,4-Dinitrophenol	0.000		0	N.D.		
67) Dibenzofuran	0.000		0	N.D.		
68) 2,4-Dinitrotoluene	0.000		0	N.D.	d	
69) 4-Nitrophenol	0.000		0	N.D.		
71) 2,3,4,6-Tetrachlorophenol	0.000		0	N.D.		
72) Diethyl phthalate	0.000		0	N.D.		
74) 4-Chlorophenyl phenyl ...	0.000		0	N.D.		
75) 4-Nitroaniline	0.000		0	N.D.		
76) 4,6-Dinitro-o-cresol	0.000		0	N.D.		

Data Path : I:\8270\Dakota\240625RVT\
Data File : 34679-01.D
Acq On : 25 Jun 2024 12:12 pm
Operator : Dakota:ljg
Sample : L2434679-01,32,,gmr
Misc : WG1938967,WG1938723,ical21225
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jun 26 09:02:30 2024
Quant Method : I:\8270\dakota\240625RVT\FS240618RVT_14D_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Jun 25 12:31:04 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\dakota\240625RVT\ABN0625.D
: 2 - I:\8270\dakota\240625RVT\ADP0625.D
: 3 - I:\8270\dakota\240625RVT\AP90625.D
Sub List : 8270TCL_combo_REV1 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
77) NDPA/DPA	0.000		0		N.D.	
80) 4-Bromophenyl phenyl e...	0.000		0		N.D.	
87) Atrazine	0.000		0		N.D.	
91) Carbazole	0.000		0		N.D.	
92) Di-n-butylphthalate	0.000		0		N.D.	
97) Butyl benzyl phthalate	0.000		0		N.D.	
106) 3,3'-Dichlorobenzidine	0.000		0		N.D.	
108) Bis(2-ethylhexyl)phtha...	0.000		0		N.D.	d
109) Di-n-octylphthalate	0.000		0		N.D.	d

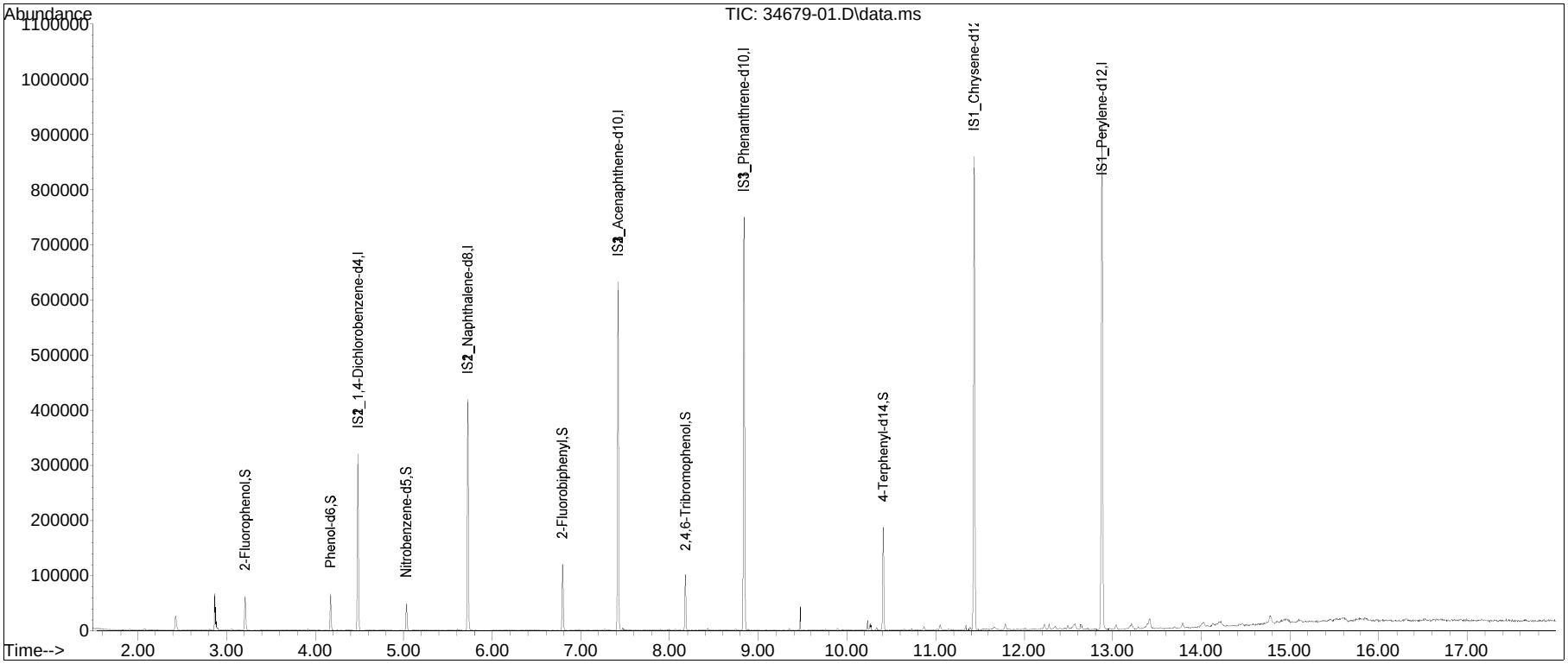
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\240625RVT\
Data File : 34679-01.D
Acq On : 25 Jun 2024 12:12 pm
Operator : Dakota:ljg
Sample : L2434679-01,32,,gmr
Misc : WG1938967,WG1938723,ical21225
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jun 26 09:02:30 2024
Quant Method : I:\8270\dakota\240625RVT\FS240618RVT_14D_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Jun 25 12:31:04 2024
Response via : Initial Calibration

Sub List : 8270TCL_combo_REV1 - TCL/CT/MAP90625.D•



Manual Integration Report

Data Path	: I:\8270\Dakota\240625RVT\	QMethod	: FS240618RVT_14D_Dakota.m
Data File	: 34679-01.D	Operator	: Dakota:ljg
Date Inj'd	: 6/25/2024 12:12 pm	Instrument	: Dakota
Sample	: L2434679-01,32,,gmr	Quant Date	: 6/25/2024 12:31 pm

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\240625RVT\
Data File : 34679-10.D
Acq On : 25 Jun 2024 12:35 pm
Operator : Dakota:ljg
Sample : L2434679-10,32,,gmr
Misc : WG1938967,WG1938723,ical21225
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jun 26 09:03:20 2024
Quant Method : I:\8270\dakota\240625RVT\FS240618RVT_14D_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Jun 25 12:54:03 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\dakota\240625RVT\ABN0625.D
: 2 - I:\8270\dakota\240625RVT\ADP0625.D
: 3 - I:\8270\dakota\240625RVT\AP90625.D
Sub List : 8270TCL_combo_REV1 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) IS1_1,4-Dichlorobenzen...	4.486	152	30454	4.000	ug/ml		0.00
Standard Area 1 = 26257			Recovery = 115.98%				
27) IS2_1,4-Dichlorobenzen...	4.486	152	30454	4.000	ug/ml		0.00
Standard Area 3 = 27010			Recovery = 112.75%				
35) IS1_Naphthalene-d8	5.720	136	107539	4.000	ug/ml	#	0.00
Standard Area 1 = 95039			Recovery = 113.15%				
55) IS2_Naphthalene-d8	5.720	136	107539	4.000	ug/ml	#	0.00
Standard Area 3 = 101426			Recovery = 106.03%				
63) IS1_Acenaphthene-d10	7.417	164	75810	4.000	ug/ml		0.00
Standard Area 1 = 67008			Recovery = 113.14%				
83) IS2_Acenaphthene-d10	7.417	164	75810	4.000	ug/ml		0.00
Standard Area 3 = 69385			Recovery = 109.26%				
86) IS3_Acenaphthene-d10	7.417	164	75810	4.000	ug/ml		0.00
Standard Area 2 = 69313			Recovery = 109.37%				
88) IS1_Phenanthrene-d10	8.841	188	178261	4.000	ug/ml		0.00
Standard Area 1 = 156879			Recovery = 113.63%				
100) IS3_Phenanthrene-d10	8.841	188	178261	4.000	ug/ml		0.00
Standard Area 2 = 162640			Recovery = 109.60%				
104) IS1_Chrysene-d12	11.436	240	186028	4.000	ug/ml		0.00
Standard Area 1 = 168902			Recovery = 110.14%				
113) IS1_Perylene-d12	12.878	264	221753	4.000	ug/ml		0.00
Standard Area 1 = 203294			Recovery = 109.08%				
System Monitoring Compounds							
4) 2-Fluorophenol	3.215	112	16318	2.085	ug/ml		0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 104.25%				
7) Phenol-d6	4.175	99	17132	1.735	ug/ml		0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 86.75%				
19) Nitrobenzene-d5	5.030	82	13603	1.319	ug/ml		0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 131.90%#				
46) 2-Fluorobiphenyl	6.792	172	39147	1.452	ug/ml		0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 145.20%#				
79) 2,4,6-Tribromophenol	8.179	330	12576	2.538	ug/ml		0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 126.90%#				
96) 4-Terphenyl-d14	10.410	244	69229	1.494	ug/ml		0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 149.40%#				

Data Path : I:\8270\Dakota\240625RVT\
Data File : 34679-10.D
Acq On : 25 Jun 2024 12:35 pm
Operator : Dakota:ljg
Sample : L2434679-10,32,,gmr
Misc : WG1938967,WG1938723,ical21225
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jun 26 09:03:20 2024
Quant Method : I:\8270\dakota\240625RVT\FS240618RVT_14D_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Jun 25 12:54:03 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\dakota\240625RVT\ABN0625.D
: 2 - I:\8270\dakota\240625RVT\ADP0625.D
: 3 - I:\8270\dakota\240625RVT\AP90625.D
Sub List : 8270TCL_combo_REV1 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Target Compounds						Qvalue
6) 2-Chlorophenol	0.000		0	N.D.		
8) Phenol	0.000		0	N.D.		
9) Bis(2-chloroethyl)ether	0.000		0	N.D.		
14) Bis(2-chloroisopropyl)...	0.000		0	N.D.		
15) 2-Methylphenol	0.000		0	N.D.		
17) n-Nitrosodi-n-propylamine	0.000		0	N.D.	d	
18) 3-Methylphenol/4-Methy...	0.000		0	N.D.		
20) Nitrobenzene	0.000		0	N.D.		
21) Isophorone	0.000		0	N.D.		
22) 2-Nitrophenol	0.000		0	N.D.		
23) 2,4-Dimethylphenol	0.000		0	N.D.		
24) Bis(2-chloroethoxy)met...	0.000		0	N.D.		
25) 2,4-Dichlorophenol	0.000		0	N.D.		
28) Benzaldehyde	0.000		0	N.D.		
29) Acetophenone	0.000		0	N.D.		
38) 4-Chloroaniline	0.000		0	N.D.		
40) p-Chloro-m-cresol	0.000		0	N.D.		
43) Hexachlorocyclopentadiene	0.000		0	N.D.		
44) 2,4,6-Trichlorophenol	0.000		0	N.D.		
45) 2,4,5-Trichlorophenol	0.000		0	N.D.		
48) 2-Nitroaniline	0.000		0	N.D.		
51) Dimethyl phthalate	0.000		0	N.D.	d	
53) 2,6-Dinitrotoluene	0.000		0	N.D.	d	
60) Caprolactam	0.000		0	N.D.		
61) 1,2,4,5-Tetrachloroben...	0.000		0	N.D.		
62) Biphenyl	0.000		0	N.D.		
64) 3-Nitroaniline	0.000		0	N.D.		
66) 2,4-Dinitrophenol	0.000		0	N.D.		
67) Dibenzofuran	0.000		0	N.D.		
68) 2,4-Dinitrotoluene	0.000		0	N.D.	d	
69) 4-Nitrophenol	0.000		0	N.D.		
71) 2,3,4,6-Tetrachlorophenol	0.000		0	N.D.		
72) Diethyl phthalate	0.000		0	N.D.		
74) 4-Chlorophenyl phenyl ...	0.000		0	N.D.		
75) 4-Nitroaniline	0.000		0	N.D.		
76) 4,6-Dinitro-o-cresol	0.000		0	N.D.		

Data Path : I:\8270\Dakota\240625RVT\
Data File : 34679-10.D
Acq On : 25 Jun 2024 12:35 pm
Operator : Dakota:ljg
Sample : L2434679-10,32,,gmr
Misc : WG1938967,WG1938723,ical21225
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jun 26 09:03:20 2024
Quant Method : I:\8270\dakota\240625RVT\FS240618RVT_14D_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Jun 25 12:54:03 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\dakota\240625RVT\ABN0625.D
: 2 - I:\8270\dakota\240625RVT\ADP0625.D
: 3 - I:\8270\dakota\240625RVT\AP90625.D
Sub List : 8270TCL_combo_REV1 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
77) NDPA/DPA	0.000		0		N.D.	
80) 4-Bromophenyl phenyl e...	0.000		0		N.D.	
87) Atrazine	0.000		0		N.D.	
91) Carbazole	0.000		0		N.D.	
92) Di-n-butylphthalate	0.000		0		N.D.	d
97) Butyl benzyl phthalate	0.000		0		N.D.	
106) 3,3'-Dichlorobenzidine	0.000		0		N.D.	
108) Bis(2-ethylhexyl)phtha...	0.000		0		N.D.	d
109) Di-n-octylphthalate	0.000		0		N.D.	d

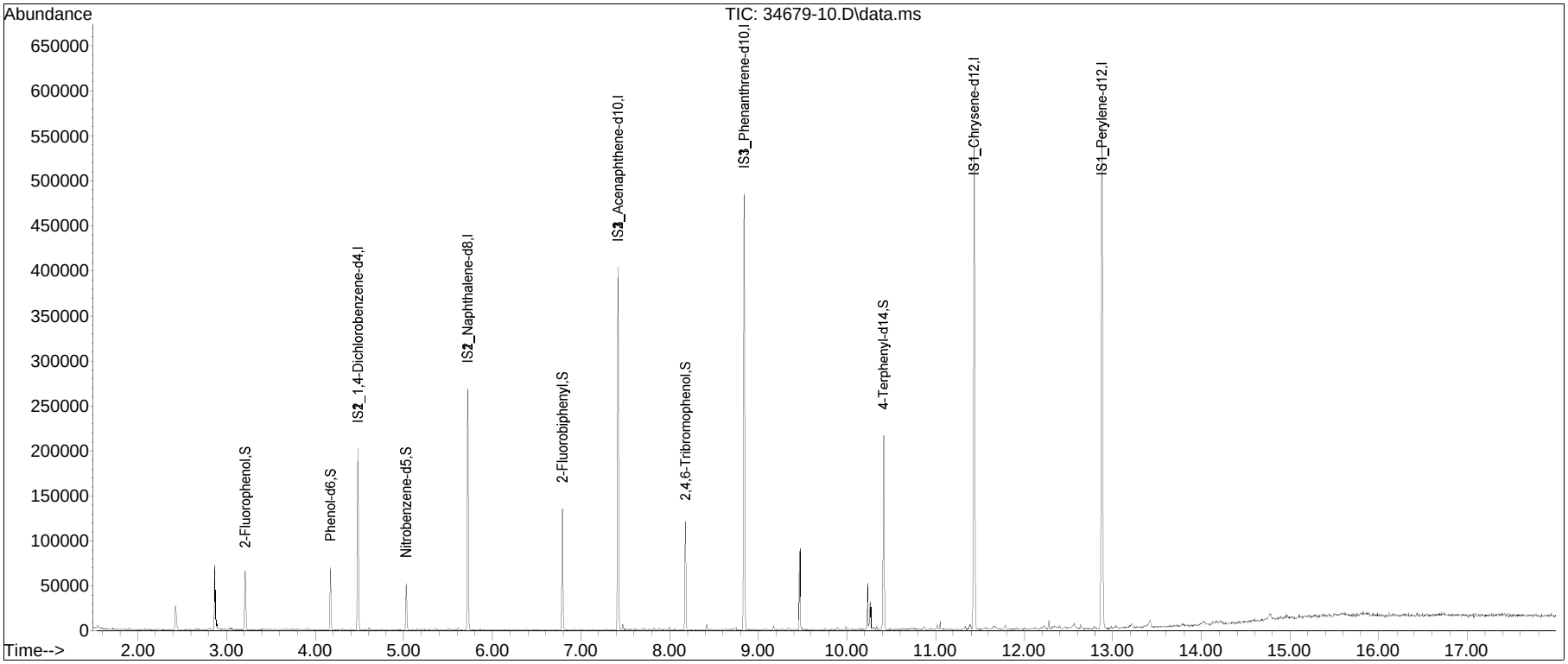
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\240625RVT\
Data File : 34679-10.D
Acq On : 25 Jun 2024 12:35 pm
Operator : Dakota:ljg
Sample : L2434679-10,32,,gmr
Misc : WG1938967,WG1938723,ical21225
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jun 26 09:03:20 2024
Quant Method : I:\8270\dakota\240625RVT\FS240618RVT_14D_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Jun 25 12:54:03 2024
Response via : Initial Calibration

Sub List : 8270TCL_combo_REV1 - TCL/CT/MAP90625.D•



Manual Integration Report

Data Path	: I:\8270\Dakota\240625RVT\	QMethod	: FS240618RVT_14D_Dakota.m
Data File	: 34679-10.D	Operator	: Dakota:ljg
Date Inj'd	: 6/25/2024 12:35 pm	Instrument	: Dakota
Sample	: L2434679-10,32,,gmr	Quant Date	: 6/25/2024 12:54 pm

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

Semivolatiles Standards Data

Initial Calibration

Initial Calibration Summary
Form 6
Semivolatiles

Client	**: Alpha Geoscience**	**Lab Number**	**: L2434679**
Project Name	**: RANCO MINE**	**Project Number**	**: 12123**
Instrument ID	**: DAKOTA**	**Ical Ref**	**: ICAL21225**
Calibration dates	**: 06/18/24 12:22 06/19/24 00:04**		

Calibration Files
L1 =AP9L1.D L2 =AP9L2.D L3 =AP9L3.D L4 =AP9L4.D L5 =AP9L5.D L6 =AP9L6.D L7 =AP9L7.D
L8 =AP9L8.D L9 =AP9L9.D

		Compound	L1	L2	L3	L4	L5	L6	L7	L8	L9	Avg	%RSD
1)	I	IS1_1,4-Dichlorobenzene-d4	----------ISTD----------										
2)	t	N-Nitrosodimethylamine		0.786	0.710	0.659	0.643	0.654	0.698	0.677	0.732	0.695	6.84
3)	t	Pyridine		1.167	1.172	1.102	1.108	1.037	1.126	1.101	1.200	1.127	4.59
4)	S	2-Fluorophenol	0.966	1.260	0.955	1.007	0.936	1.001	1.026	1.025	1.074	1.028	9.40
5)	T	Aniline	1.975	1.916	1.678	1.563	1.542	1.601	1.678	1.666	1.737	1.706	8.77
6)	t	2-Chlorophenol	1.163	1.229	1.077	1.150	1.082	1.142	1.192	1.135	1.183	1.150	4.30
7)	S	Phenol-d6	1.400	1.288	1.294	1.315	1.217	1.212	1.299	1.291	1.359	1.297	4.61
8)	T	Phenol	1.495	1.615	1.513	1.477	1.422	1.453	1.560	1.499	1.569	1.512	4.02
9)	T	bis(2-Chloroethyl)ether	1.103	1.096	1.013	0.989	0.913	0.947	0.978	0.928	0.954	0.991	6.92
10)	T	1,3-Dichlorobenzene	1.343	1.761	1.529	1.484	1.405	1.440	1.490	1.433	1.437	1.480	7.98
11)	T	1,4-Dichlorobenzene	1.595	1.895	1.595	1.442	1.439	1.448	1.518	1.434	1.426	1.533	9.91
12)	T	1,2-Dichlorobenzene	1.606	1.609	1.547	1.392	1.375	1.377	1.429	1.376	1.376	1.454	7.06
13)	t	Benzyl alcohol	0.911	0.950	1.014	0.966	0.932	0.973	0.990	0.987	1.032	0.973	3.93
14)	T	bis(2-chloroisopropyl)ether	1.803	1.815	1.510	1.419	1.363	1.383	1.398	1.292	1.319	1.478	13.36
15)	T	2-Methylphenol	1.218	1.214	0.982	0.963	0.925	1.017	1.017	1.001	1.012	1.039	10.08
16)	T	Hexachloroethane		0.695	0.507	0.565	0.514	0.517	0.531	0.509	0.515	0.544	11.71
17)	T	n-Nitrosodi-n-propylamine	1.091	1.001	0.903	0.900	0.827	0.860	0.909	0.856	0.861	0.912	9.17
18)	T	3-Methylphenol/4-Methylphenol	1.189	1.295	1.008	1.043	1.023	1.043	1.120	1.067	1.070	1.095	8.48
19)	S	Nitrobenzene-d5	1.765	1.446	1.351	1.259	1.258	1.269	1.329	1.259	1.252	1.354	12.34
20)	T	Nitrobenzene	1.439	1.498	1.317	1.262	1.173	1.229	1.289	1.244	1.230	1.298	8.15
21)	T	Isophorone	2.502	2.250	2.352	2.205	2.129	2.261	2.306	2.231	2.240	2.275	4.63
22)	T	2-Nitrophenol		0.607	0.719	0.623	0.592	0.606	0.680	0.661	0.665	0.644	6.87
23)	T	2,4-Dimethylphenol	1.033	1.391	1.133	1.039	1.035	1.055	1.066	1.042	1.077	1.097	10.45
24)	T	bis(2-Chloroethoxy)methane	1.630	1.649	1.413	1.388	1.309	1.344	1.329	1.277	1.249	1.398	10.40
25)	T	2,4-Dichlorophenol	1.286	1.302	1.222	1.155	1.185	1.232	1.294	1.228	1.232	1.237	4.00
26)	T	1,2,4-Trichlorobenzene	1.757	1.841	1.645	1.517	1.399	1.464	1.478	1.411	1.383	1.544	10.74
27)	I	IS2_1,4-Dichlorobenzene-d4	----------ISTD----------										
28)	T	Benzaldehyde	1.135	0.979	1.006	1.075	0.994	1.006	1.038	1.051	1.038	1.036	4.62
29)	T	Acetophenone	1.665	1.844	1.789	1.723	1.699	1.725	1.849	1.854	1.795	1.772	3.99
30)	T	m-Toluidine	1.396	1.716	1.696	1.765	1.679	1.715	1.813	1.807	1.746	1.704	7.30
31)	T	2-Chloroaniline	1.565	1.723	1.683	1.684	1.566	1.595	1.688	1.688	1.636	1.648	3.58
32)	I	IS3_1,4-Dichlorobenzene-d4	----------ISTD----------										
33)	T	1,4-Dioxane		0.495	0.453	0.520	0.424	0.404	0.435	0.431	0.437	0.450	8.61
34)	T	n-Decane	1.139	1.163	1.122	1.252	0.968	0.909	0.993	1.000	0.983	1.059	10.71
35)	I	IS1_Naphthalene-d8	----------ISTD----------										
36)	T	Naphthalene	1.276	1.259	1.073	0.993	0.962	0.936	0.997	0.951	0.928	1.042	12.95

Initial Calibration Summary
Form 6
Semivolatiles

Client	**: Alpha Geoscience**	**Lab Number**	**: L2434679**
Project Name	**: RANCO MINE**	**Project Number**	**: 12123**
Instrument ID	**: DAKOTA**	**Ical Ref**	**: ICAL21225**
Calibration dates	**: 06/18/24 12:22 06/19/24 00:04**		

Calibration Files
L1 =AP9L1.D L2 =AP9L2.D L3 =AP9L3.D L4 =AP9L4.D L5 =AP9L5.D L6 =AP9L6.D L7 =AP9L7.D
L8 =AP9L8.D L9 =AP9L9.D

		Compound	L1	L2	L3	L4	L5	L6	L7	L8	L9	Avg	%RSD
37)	T	Benzoic Acid				0.135	0.174	0.199	0.230	0.265	0.280	*L	0.9962
38)	T	4-Chloroaniline		0.177	0.129	0.114	0.112	0.120	0.120	0.120	0.124	0.127	16.33
39)	T	Hexachlorobutadiene	0.265	0.296	0.259	0.242	0.232	0.229	0.251	0.238	0.240	0.250	8.38
40)	T	p-Chloro-m-cresol	0.286	0.297	0.322	0.274	0.264	0.276	0.291	0.296	0.312	0.291	6.36
41)	T	2-Methylnaphthalene	0.861	0.883	0.773	0.720	0.682	0.689	0.724	0.702	0.708	0.749	9.97
42)	T	1-Methylnaphthalene	0.295	0.290	0.252	0.238	0.215	0.221	0.240	0.223	0.236	0.245	11.80
43)	T	Hexachlorocyclopentadiene	0.286	0.327	0.305	0.280	0.271	0.266	0.292	0.285	0.298	0.290	6.37
44)	T	2,4,6-Trichlorophenol	0.298	0.334	0.308	0.269	0.272	0.271	0.302	0.302	0.307	0.296	7.24
45)	T	2,4,5-Trichlorophenol	0.313	0.335	0.307	0.327	0.296	0.302	0.320	0.323	0.325	0.316	4.04
46)	S	2-Fluorobiphenyl	1.201	1.208	1.058	0.976	0.922	0.925	0.942	0.908	0.884	1.003	12.42
47)	T	2-Chloronaphthalene	0.918	1.007	0.856	0.817	0.768	0.771	0.798	0.773	0.768	0.830	10.01
48)	T	2-Nitroaniline		0.231	0.214	0.224	0.192	0.206	0.228	0.235	0.239	0.221	7.19
49)	T	1,4-Dinitrobenzene		0.123	0.135	0.107	0.102	0.109	0.117	0.122	0.125	0.117	9.29
50)	T	1,3-Dinitrobenzene	0.118	0.134	0.117	0.121	0.117	0.127	0.134	0.136	0.137	0.127	6.88
51)	T	Dimethyl phthalate	1.326	1.213	1.060	0.985	0.935	0.940	0.968	0.946	0.918	1.032	13.89
52)	T	Acenaphthylene	1.407	1.352	1.319	1.237	1.170	1.177	1.203	1.170	1.122	1.240	7.84
53)	T	2,6-Dinitrotoluene		0.245	0.202	0.186	0.188	0.192	0.211	0.202	0.204	0.204	9.27
54)	T	1,2-Dinitrobenzene		0.075	0.070	0.072	0.072	0.077	0.075	0.076	0.076	0.074	3.47
55)	I	IS2_Naphthalene-d8	----------ISTD----------										
56)	T	a-Terpineol	0.245	0.276	0.278	0.259	0.265	0.261	0.280	0.283	0.277	0.269	4.67
57)	T	3-Chloroaniline	0.134	0.150	0.172	0.148	0.147	0.146	0.150	0.153	0.150	0.150	6.48
58)	T	2,6-Dichlorophenol	0.381	0.339	0.390	0.378	0.366	0.372	0.392	0.391	0.368	0.375	4.50
59)	T	1-chloro-2-nitrobenzene	0.164	0.163	0.167	0.153	0.150	0.147	0.151	0.155	0.149	0.155	4.71
60)	T	Caprolactam		0.116	0.116	0.129	0.137	0.135	0.145	0.147	0.145	0.134	9.32
61)	T	1,2,4,5-Tetrachlorobenzene	0.538	0.544	0.514	0.500	0.495	0.481	0.489	0.485	0.450	0.499	5.85
62)	T	Biphenyl	1.101	1.175	1.077	1.103	1.092	1.039	1.068	1.015	0.948	1.069	5.96
63)	I	IS1_Acenaphthene-d10	----------ISTD----------										
64)	T	3-Nitroaniline		0.344	0.276	0.272	0.279	0.281	0.307	0.308	0.308	0.297	8.21
65)	T	Acenaphthene		1.465	1.101	1.076	0.989	1.003	1.037	0.999	0.977	1.081	14.92
66)	T	2,4-Dinitrophenol			0.130	0.159	0.178	0.193	0.220	0.227	0.230	*L	0.9988
67)	T	Dibenzofuran	2.444	2.207	2.008	1.908	1.732	1.749	1.793	1.675	1.611	1.903	14.37
68)	T	2,4-Dinitrotoluene	0.381	0.432	0.363	0.396	0.390	0.400	0.430	0.430	0.415	0.404	6.06
69)	T	4-Nitrophenol	0.265	0.255	0.252	0.232	0.235	0.236	0.252	0.255	0.256	0.249	4.62
70)	T	2,3,5,6-Tetrachlorophenol	0.510	0.483	0.394	0.395	0.396	0.396	0.435	0.423	0.416	0.428	9.89
71)	T	2,3,4,6-Tetrachlorophenol			0.417	0.398	0.387	0.395	0.413	0.398	0.397	0.401	2.58
72)	T	Diethyl phthalate	1.789	2.017	1.526	1.478	1.418	1.419	1.476	1.392	1.369	1.543	14.10

Initial Calibration Summary
Form 6
Semivolatiles

Client	**: Alpha Geoscience**	**Lab Number**	**: L2434679**
Project Name	**: RANCO MINE**	**Project Number**	**: 12123**
Instrument ID	**: DAKOTA**	**Ical Ref**	**: ICAL21225**
Calibration dates	**: 06/18/24 12:22 06/19/24 00:04**		

Calibration Files
L1 =AP9L1.D L2 =AP9L2.D L3 =AP9L3.D L4 =AP9L4.D L5 =AP9L5.D L6 =AP9L6.D L7 =AP9L7.D
L8 =AP9L8.D L9 =AP9L9.D

		Compound	L1	L2	L3	L4	L5	L6	L7	L8	L9	Avg	%RSD
73)	T	Fluorene	1.688	1.764	1.449	1.417	1.352	1.340	1.410	1.331	1.284	1.448	11.47
74)	T	4-Chlorophenyl-phenylether		0.958	0.757	0.759	0.701	0.687	0.724	0.667	0.648	0.738	13.19
75)	T	4-Nitroaniline	0.314	0.248	0.290	0.297	0.281	0.286	0.309	0.309	0.298	0.292	6.89
76)	T	4,6-Dinitro-o-cresol			0.205	0.224	0.235	0.259	0.285	0.291	0.285	0.255	13.41
77)	T	NDPA/DPA	1.538	1.476	1.207	1.264	1.147	1.148	1.202	1.126	1.079	1.243	12.82
78)	T	Azobenzene	1.323	1.527	1.290	1.285	1.173	1.166	1.240	1.157	1.111	1.252	10.01
79)	S	2,4,6-Tribromophenol	0.182	0.270	0.271	0.279	0.256	0.257	0.283	0.275	0.281	0.261	11.95
80)	T	4-Bromophenyl-phenylether	0.601	0.587	0.470	0.494	0.454	0.437	0.469	0.451	0.453	0.491	12.38
81)	T	Hexachlorobenzene	0.746	0.724	0.663	0.600	0.527	0.546	0.562	0.562	0.555	0.609	13.36
82)	T	Pentachlorophenol				0.345	0.322	0.349	0.385	0.402	0.409	0.369	9.46
83)	I	IS2_Acenaphthene-d10	----------ISTD----------										
84)	T	Dichloran				0.204	0.206	0.221	0.252	0.259	0.271	0.236	12.17
85)	T	Pentachloronitrobenzene		0.211	0.196	0.204	0.212	0.227	0.237	0.239	0.234	0.220	7.35
86)	I	IS3_Acenaphthene-d10	----------ISTD----------										
87)	T	Atrazine	0.501	0.434	0.457	0.488	0.408	0.387	0.461	0.446	0.469	0.450	8.03
88)	I	IS1_Phenanthrene-d10	----------ISTD----------										
89)	T	Phenanthrene	1.389	1.311	1.143	1.041	0.979	0.989	1.003	0.964	0.915	1.081	15.31
90)	T	Anthracene	1.202	1.198	1.134	1.011	0.994	0.974	1.012	0.958	0.903	1.043	10.37
91)	T	Carbazole	1.139	1.126	1.022	0.962	0.926	0.934	0.973	0.927	0.883	0.988	9.13
92)	T	Di-n-butylphthalate	1.240	1.248	1.138	1.064	1.059	1.094	1.148	1.123	1.096	1.134	6.08
93)	T	Fluoranthene	1.648	1.516	1.382	1.290	1.193	1.215	1.239	1.223	1.145	1.317	12.71
94)	T	Benzidine	0.694	0.758	0.715	0.714	0.693	0.728	0.780	0.777	0.744	0.734	4.50
95)	T	Pyrene	1.677	1.499	1.398	1.405	1.256	1.283	1.303	1.242	1.138	1.356	11.86
96)	S	4-Terphenyl-d14	1.355	1.182	1.079	1.027	0.961	0.960	0.994	0.924	0.879	1.040	14.25
97)	T	Butyl benzyl phthalate	0.505	0.519	0.475	0.460	0.469	0.505	0.546	0.553	0.555	0.510	7.18
98)	I	IS2_Phenanthrene-d10	----------ISTD----------										
99)	T	Diphenamid	0.507	0.480	0.514	0.479	0.507	0.531	0.556	0.564	0.547	0.521	5.96
100)	I	IS3_Phenanthrene-d10	----------ISTD----------										
101)	T	n-Octadecane	0.355	0.341	0.341	0.310	0.308	0.282	0.311	0.312	0.314	0.319	6.97
102)	T	Parathion			0.075	0.087	0.081	0.080	0.103	0.113	0.121	*Q	0.9980
103)	T	3,3'-Dimethylbenzidine			0.610	0.670	0.663	0.678	0.820	0.863	0.839	0.735	13.90
104)	I	IS1_Chrysene-d12	----------ISTD----------										
105)	T	Benzo[a]anthracene	1.578	1.572	1.346	1.278	1.233	1.224	1.294	1.254	1.227	1.334	10.65
106)	T	3,3'-Dichlorobenzidine	0.484	0.529	0.452	0.457	0.473	0.483	0.529	0.530	0.519	0.495	6.44
107)	T	Chrysene		1.701	1.424	1.279	1.189	1.164	1.201	1.096	1.076	1.266	16.35
108)	T	bis(2-Ethylhexyl)phthalate	0.777	0.743	0.696	0.687	0.710	0.753	0.810	0.776	0.801	0.750	5.99

Initial Calibration Summary
Form 6
Semivolatiles

Client	**: Alpha Geoscience**	**Lab Number**	**: L2434679**
Project Name	**: RANCO MINE**	**Project Number**	**: 12123**
Instrument ID	**: DAKOTA**	**Ical Ref**	**: ICAL21225**
Calibration dates	**: 06/18/24 12:22 06/19/24 00:04**		

Calibration Files

L1 =AP9L1.D L2 =AP9L2.D L3 =AP9L3.D L4 =AP9L4.D L5 =AP9L5.D L6 =AP9L6.D L7 =AP9L7.D
L8 =AP9L8.D L9 =AP9L9.D

	Compound	L1	L2	L3	L4	L5	L6	L7	L8	L9	Avg	%RSD
109) T	Di-n-octylphthalate	1.165	1.176	1.080	1.081	1.199	1.255	1.410	1.422	1.471	1.251	11.90
110) T	Benzo(b)fluoranthene	1.665	1.586	1.438	1.347	1.295	1.329	1.373	1.361	1.425	1.424	8.68
111) T	Benzo(k)fluoranthene	1.538	1.571	1.398	1.356	1.333	1.248	1.339	1.242	1.168	1.355	9.82
112) T	Benzo(a)pyrene	1.384	1.371	1.250	1.199	1.179	1.207	1.269	1.234	1.263	1.262	5.72
113) I	IS1_Perylene-d12	----------ISTD----------										
114) T	Indeno(1,2,3-cd)pyrene	1.341	1.277	1.250	1.156	1.117	1.143	1.239	1.293	1.298	1.235	6.36
115) T	Dibenzo[a,h]anthracene	1.241	1.314	1.115	1.137	1.065	1.087	1.173	1.144	1.067	1.149	7.23
116) T	Benzo(g,h,i)perylene	1.292	1.267	1.116	1.118	1.048	1.039	1.121	1.097	1.063	1.129	8.04

Response Factor Report Dakota

Method Path : I:\8270\Dakota\240618ical\
Method File : FS240618RVT_14D_Dakota.m
Title : Semivolatiles by GC/MS by modified 8270
Last Update : Wed Jun 19 22:04:59 2024
Response Via : Initial Calibration

Calibration Files
L1 =AP9L1.D L2 =AP9L2.D L3 =AP9L3.D L4 =AP9L4.D L5 =AP9L5.D L6 =AP9L6.D L7 =AP9L7.D
L8 =AP9L8.D L9 =AP9L9.D

		Compound	L1	L2	L3	L4	L5	L6	L7	L8	L9	Avg	%RSD
1)	I	IS1_1,4-Dichlorobenzene-d4	----------ISTD----------										
2)	t	N-Nitrosodimethylamine		0.786	0.710	0.659	0.643	0.654	0.698	0.677	0.732	0.695	6.84
3)	t	Pyridine		1.167	1.172	1.102	1.108	1.037	1.126	1.101	1.200	1.127	4.59
4)	S	2-Fluorophenol	0.966	1.260	0.955	1.007	0.936	1.001	1.026	1.025	1.074	1.028	9.40
5)	T	Aniline	1.975	1.916	1.678	1.563	1.542	1.601	1.678	1.666	1.737	1.706	8.77
6)	t	2-Chlorophenol	1.163	1.229	1.077	1.150	1.082	1.142	1.192	1.135	1.183	1.150	4.30
7)	S	Phenol-d6	1.400	1.288	1.294	1.315	1.217	1.212	1.299	1.291	1.359	1.297	4.61
8)	T	Phenol	1.495	1.615	1.513	1.477	1.422	1.453	1.560	1.499	1.569	1.512	4.02
9)	T	bis(2-Chloroethyl)ether	1.103	1.096	1.013	0.989	0.913	0.947	0.978	0.928	0.954	0.991	6.92
10)	T	1,3-Dichlorobenzene	1.343	1.761	1.529	1.484	1.405	1.440	1.490	1.433	1.437	1.480	7.98
11)	T	1,4-Dichlorobenzene	1.595	1.895	1.595	1.442	1.439	1.448	1.518	1.434	1.426	1.533	9.91
12)	T	1,2-Dichlorobenzene	1.606	1.609	1.547	1.392	1.375	1.377	1.429	1.376	1.376	1.454	7.06
13)	t	Benzyl alcohol	0.911	0.950	1.014	0.966	0.932	0.973	0.990	0.987	1.032	0.973	3.93
14)	T	bis(2-chloroisopropyl)ether	1.803	1.815	1.510	1.419	1.363	1.383	1.398	1.292	1.319	1.478	13.36
15)	T	2-Methylphenol	1.218	1.214	0.982	0.963	0.925	1.017	1.017	1.001	1.012	1.039	10.08
16)	T	Hexachloroethane		0.695	0.507	0.565	0.514	0.517	0.531	0.509	0.515	0.544	11.71
17)	T	n-Nitrosodi-n-propylamine	1.091	1.001	0.903	0.900	0.827	0.860	0.909	0.856	0.861	0.912	9.17
18)	T	3-Methylphenol/4-Methylphenol	1.189	1.295	1.008	1.043	1.023	1.043	1.120	1.067	1.070	1.095	8.48
19)	S	Nitrobenzene-d5	1.765	1.446	1.351	1.259	1.258	1.269	1.329	1.259	1.252	1.354	12.34
20)	T	Nitrobenzene	1.439	1.498	1.317	1.262	1.173	1.229	1.289	1.244	1.230	1.298	8.15
21)	T	Isophorone	2.502	2.250	2.352	2.205	2.129	2.261	2.306	2.231	2.240	2.275	4.63
22)	T	2-Nitrophenol		0.607	0.719	0.623	0.592	0.606	0.680	0.661	0.665	0.644	6.87
23)	T	2,4-Dimethylphenol	1.033	1.391	1.133	1.039	1.035	1.055	1.066	1.042	1.077	1.097	10.45
24)	T	bis(2-Chloroethoxy)methane	1.630	1.649	1.413	1.388	1.309	1.344	1.329	1.277	1.249	1.398	10.40
25)	T	2,4-Dichlorophenol	1.286	1.302	1.222	1.155	1.185	1.232	1.294	1.228	1.232	1.237	4.00
26)	T	1,2,4-Trichlorobenzene	1.757	1.841	1.645	1.517	1.399	1.464	1.478	1.411	1.383	1.544	10.74
27)	I	IS2_1,4-Dichlorobenzene-d4	----------ISTD----------										
28)	T	Benzaldehyde	1.135	0.979	1.006	1.075	0.994	1.006	1.038	1.051	1.038	1.036	4.62
29)	T	Acetophenone	1.665	1.844	1.789	1.723	1.699	1.725	1.849	1.854	1.795	1.772	3.99
30)	T	m-Toluidine	1.396	1.716	1.696	1.765	1.679	1.715	1.813	1.807	1.746	1.704	7.30
31)	T	2-Chloroaniline	1.565	1.723	1.683	1.684	1.566	1.595	1.688	1.688	1.636	1.648	3.58
32)	I	IS3_1,4-Dichlorobenzene-d4	----------ISTD----------										
33)	T	1,4-Dioxane		0.495	0.453	0.520	0.424	0.404	0.435	0.431	0.437	0.450	8.61
34)	T	n-Decane	1.139	1.163	1.122	1.252	0.968	0.909	0.993	1.000	0.983	1.059	10.71
35)	I	IS1_Naphthalene-d8	----------ISTD----------										
36)	T	Naphthalene	1.276	1.259	1.073	0.993	0.962	0.936	0.997	0.951	0.928	1.042	12.95
37)	T	Benzoic Acid				0.135	0.174	0.199	0.230	0.265	0.280	*L	0.9962
38)	T	4-Chloroaniline		0.177	0.129	0.114	0.112	0.120	0.120	0.120	0.124	0.127	16.33
39)	T	Hexachlorobutadiene	0.265	0.296	0.259	0.242	0.232	0.229	0.251	0.238	0.240	0.250	8.38
40)	T	p-Chloro-m-cresol	0.286	0.297	0.322	0.274	0.264	0.276	0.291	0.296	0.312	0.291	6.36
41)	T	2-Methylnaphthalene	0.861	0.883	0.773	0.720	0.682	0.689	0.724	0.702	0.708	0.749	9.97
42)	T	1-Methylnaphthalene	0.295	0.290	0.252	0.238	0.215	0.221	0.240	0.223	0.236	0.245	11.80
43)	T	Hexachlorocyclopentadiene	0.286	0.327	0.305	0.280	0.271	0.266	0.292	0.285	0.298	0.290	6.37
44)	T	2,4,6-Trichlorophenol	0.298	0.334	0.308	0.269	0.272	0.271	0.302	0.302	0.307	0.296	7.24
45)	T	2,4,5-Trichlorophenol	0.313	0.335	0.307	0.327	0.296	0.302	0.320	0.323	0.325	0.316	4.04

Response Factor Report Dakota

Method Path : I:\8270\Dakota\240618ical\
Method File : FS240618RVT_14D_Dakota.m
Title : Semivolatiles by GC/MS by modified 8270
Last Update : Wed Jun 19 22:04:59 2024
Response Via : Initial Calibration

Calibration Files
L1 =AP9L1.D L2 =AP9L2.D L3 =AP9L3.D L4 =AP9L4.D L5 =AP9L5.D L6 =AP9L6.D L7 =AP9L7.D
L8 =AP9L8.D L9 =AP9L9.D

		Compound	L1	L2	L3	L4	L5	L6	L7	L8	L9	Avg	%RSD
46)	S	2-Fluorobiphenyl	1.201	1.208	1.058	0.976	0.922	0.925	0.942	0.908	0.884	1.003	12.42
47)	T	2-Chloronaphthalene	0.918	1.007	0.856	0.817	0.768	0.771	0.798	0.773	0.768	0.830	10.01
48)	T	2-Nitroaniline		0.231	0.214	0.224	0.192	0.206	0.228	0.235	0.239	0.221	7.19
49)	T	1,4-Dinitrobenzene		0.123	0.135	0.107	0.102	0.109	0.117	0.122	0.125	0.117	9.29
50)	T	1,3-Dinitrobenzene	0.118	0.134	0.117	0.121	0.117	0.127	0.134	0.136	0.137	0.127	6.88
51)	T	Dimethyl phthalate	1.326	1.213	1.060	0.985	0.935	0.940	0.968	0.946	0.918	1.032	13.89
52)	T	Acenaphthylene	1.407	1.352	1.319	1.237	1.170	1.177	1.203	1.170	1.122	1.240	7.84
53)	T	2,6-Dinitrotoluene		0.245	0.202	0.186	0.188	0.192	0.211	0.202	0.204	0.204	9.27
54)	T	1,2-Dinitrobenzene		0.075	0.070	0.072	0.072	0.077	0.075	0.076	0.076	0.074	3.47
55)	I	IS2_Naphthalene-d8	ISTD										
56)	T	a-Terpineol	0.245	0.276	0.278	0.259	0.265	0.261	0.280	0.283	0.277	0.269	4.67
57)	T	3-Chloroaniline	0.134	0.150	0.172	0.148	0.147	0.146	0.150	0.153	0.150	0.150	6.48
58)	T	2,6-Dichlorophenol	0.381	0.339	0.390	0.378	0.366	0.372	0.392	0.391	0.368	0.375	4.50
59)	T	1-chloro-2-nitrobenzene	0.164	0.163	0.167	0.153	0.150	0.147	0.151	0.155	0.149	0.155	4.71
60)	T	Caprolactam		0.116	0.116	0.129	0.137	0.135	0.145	0.147	0.145	0.134	9.32
61)	T	1,2,4,5-Tetrachlorobenzene	0.538	0.544	0.514	0.500	0.495	0.481	0.489	0.485	0.450	0.499	5.85
62)	T	Biphenyl	1.101	1.175	1.077	1.103	1.092	1.039	1.068	1.015	0.948	1.069	5.96
63)	I	IS1_Acenaphthene-d10	ISTD										
64)	T	3-Nitroaniline		0.344	0.276	0.272	0.279	0.281	0.307	0.308	0.308	0.297	8.21
65)	T	Acenaphthene		1.465	1.101	1.076	0.989	1.003	1.037	0.999	0.977	1.081	14.92
66)	T	2,4-Dinitrophenol			0.130	0.159	0.178	0.193	0.220	0.227	0.230	*L	0.9988
67)	T	Dibenzofuran	2.444	2.207	2.008	1.908	1.732	1.749	1.793	1.675	1.611	1.903	14.37
68)	T	2,4-Dinitrotoluene	0.381	0.432	0.363	0.396	0.390	0.400	0.430	0.430	0.415	0.404	6.06
69)	T	4-Nitrophenol	0.265	0.255	0.252	0.232	0.235	0.236	0.252	0.255	0.256	0.249	4.62
70)	T	2,3,5,6-Tetrachlorophenol	0.510	0.483	0.394	0.395	0.396	0.396	0.435	0.423	0.416	0.428	9.89
71)	T	2,3,4,6-Tetrachlorophenol			0.417	0.398	0.387	0.395	0.413	0.398	0.397	0.401	2.58
72)	T	Diethyl phthalate	1.789	2.017	1.526	1.478	1.418	1.419	1.476	1.392	1.369	1.543	14.10
73)	T	Fluorene	1.688	1.764	1.449	1.417	1.352	1.340	1.410	1.331	1.284	1.448	11.47
74)	T	4-Chlorophenyl-phenylether		0.958	0.757	0.759	0.701	0.687	0.724	0.667	0.648	0.738	13.19
75)	T	4-Nitroaniline	0.314	0.248	0.290	0.297	0.281	0.286	0.309	0.309	0.298	0.292	6.89
76)	T	4,6-Dinitro-o-cresol			0.205	0.224	0.235	0.259	0.285	0.291	0.285	0.255	13.41
77)	T	NDPA/DPA	1.538	1.476	1.207	1.264	1.147	1.148	1.202	1.126	1.079	1.243	12.82
78)	T	Azobenzene	1.323	1.527	1.290	1.285	1.173	1.166	1.240	1.157	1.111	1.252	10.01
79)	S	2,4,6-Tribromophenol	0.182	0.270	0.271	0.279	0.256	0.257	0.283	0.275	0.281	0.261	11.95
80)	T	4-Bromophenyl-phenylether	0.601	0.587	0.470	0.494	0.454	0.437	0.469	0.451	0.453	0.491	12.38
81)	T	Hexachlorobenzene	0.746	0.724	0.663	0.600	0.527	0.546	0.562	0.562	0.555	0.609	13.36
82)	T	Pentachlorophenol				0.345	0.322	0.349	0.385	0.402	0.409	0.369	9.46
83)	I	IS2_Acenaphthene-d10	ISTD										
84)	T	Dichloran				0.204	0.206	0.221	0.252	0.259	0.271	0.236	12.17
85)	T	Pentachloronitrobenzene		0.211	0.196	0.204	0.212	0.227	0.237	0.239	0.234	0.220	7.35
86)	I	IS3_Acenaphthene-d10	ISTD										
87)	T	Atrazine	0.501	0.434	0.457	0.488	0.408	0.387	0.461	0.446	0.469	0.450	8.03
88)	I	IS1_Phenanthrene-d10	ISTD										
89)	T	Phenanthrene	1.389	1.311	1.143	1.041	0.979	0.989	1.003	0.964	0.915	1.081	15.31
90)	T	Anthracene	1.202	1.198	1.134	1.011	0.994	0.974	1.012	0.958	0.903	1.043	10.37

Response Factor Report Dakota

Method Path : I:\8270\Dakota\240618ical\
Method File : FS240618RVT_14D_Dakota.m
Title : Semivolatiles by GC/MS by modified 8270
Last Update : Wed Jun 19 22:04:59 2024
Response Via : Initial Calibration

Calibration Files
L1 =AP9L1.D L2 =AP9L2.D L3 =AP9L3.D L4 =AP9L4.D L5 =AP9L5.D L6 =AP9L6.D L7 =AP9L7.D
L8 =AP9L8.D L9 =AP9L9.D

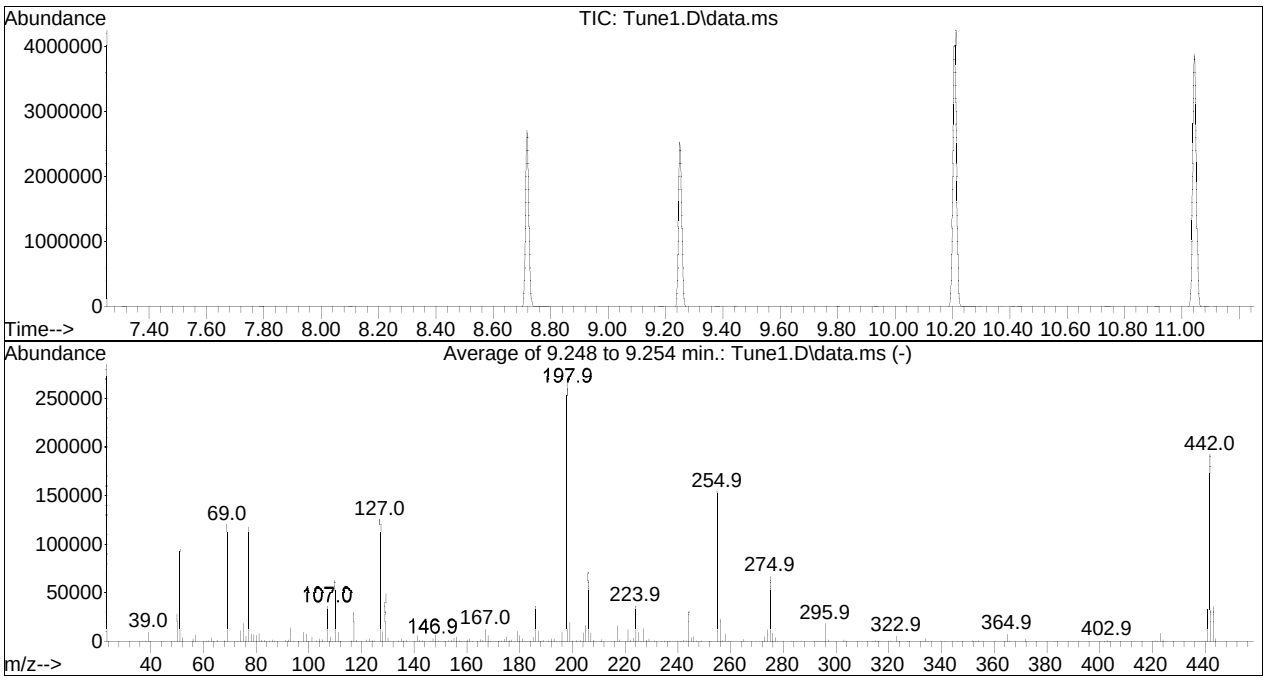
		Compound	L1	L2	L3	L4	L5	L6	L7	L8	L9	Avg	%RSD
91)	T	Carbazole	1.139	1.126	1.022	0.962	0.926	0.934	0.973	0.927	0.883	0.988	9.13
92)	T	Di-n-butylphthalate	1.240	1.248	1.138	1.064	1.059	1.094	1.148	1.123	1.096	1.134	6.08
93)	T	Fluoranthene	1.648	1.516	1.382	1.290	1.193	1.215	1.239	1.223	1.145	1.317	12.71
94)	T	Benzidine	0.694	0.758	0.715	0.714	0.693	0.728	0.780	0.777	0.744	0.734	4.50
95)	T	Pyrene	1.677	1.499	1.398	1.405	1.256	1.283	1.303	1.242	1.138	1.356	11.86
96)	S	4-Terphenyl-d14	1.355	1.182	1.079	1.027	0.961	0.960	0.994	0.924	0.879	1.040	14.25
97)	T	Butyl benzyl phthalate	0.505	0.519	0.475	0.460	0.469	0.505	0.546	0.553	0.555	0.510	7.18
98)	I	IS2_Phenanthrene-d10	----------ISTD----------										
99)	T	Diphenamid	0.507	0.480	0.514	0.479	0.507	0.531	0.556	0.564	0.547	0.521	5.96
100)	I	IS3_Phenanthrene-d10	----------ISTD----------										
101)	T	n-Octadecane	0.355	0.341	0.341	0.310	0.308	0.282	0.311	0.312	0.314	0.319	6.97
102)	T	Parathion			0.075	0.087	0.081	0.080	0.103	0.113	0.121	*Q	0.9980
103)	T	3,3'-Dimethylbenzidine			0.610	0.670	0.663	0.678	0.820	0.863	0.839	0.735	13.90
104)	I	IS1_Chrysene-d12	----------ISTD----------										
105)	T	Benzo[a]anthracene	1.578	1.572	1.346	1.278	1.233	1.224	1.294	1.254	1.227	1.334	10.65
106)	T	3,3'-Dichlorobenzidine	0.484	0.529	0.452	0.457	0.473	0.483	0.529	0.530	0.519	0.495	6.44
107)	T	Chrysene		1.701	1.424	1.279	1.189	1.164	1.201	1.096	1.076	1.266	16.35
108)	T	bis(2-Ethylhexyl)phthalate	0.777	0.743	0.696	0.687	0.710	0.753	0.810	0.776	0.801	0.750	5.99
109)	T	Di-n-octylphthalate	1.165	1.176	1.080	1.081	1.199	1.255	1.410	1.422	1.471	1.251	11.90
110)	T	Benzo(b)fluoranthene	1.665	1.586	1.438	1.347	1.295	1.329	1.373	1.361	1.425	1.424	8.68
111)	T	Benzo(k)fluoranthene	1.538	1.571	1.398	1.356	1.333	1.248	1.339	1.242	1.168	1.355	9.82
112)	T	Benzo(a)pyrene	1.384	1.371	1.250	1.199	1.179	1.207	1.269	1.234	1.263	1.262	5.72
113)	I	IS1_Perylene-d12	----------ISTD----------										
114)	T	Indeno(1,2,3-cd)pyrene	1.341	1.277	1.250	1.156	1.117	1.143	1.239	1.293	1.298	1.235	6.36
115)	T	Dibenzo[a,h]anthracene	1.241	1.314	1.115	1.137	1.065	1.087	1.173	1.144	1.067	1.149	7.23
116)	T	Benzo(g,h,i)perylene	1.292	1.267	1.116	1.118	1.048	1.039	1.121	1.097	1.063	1.129	8.04

(#) = Out of Range

Data Path : I:\8270\Dakota\240618ical\
Data File : Tune1.D
Acq On : 18 Jun 2024 11:59 am
Operator : Dakota:cmm
Sample : Tune Lot#10812
Misc : WG1938219,,
ALS Vial : 100 Sample Multiplier: 1

Integration File: rteint.p

Method : I:\8270\Dakota\240618ical\FS240618RVT_14D_Dakota.m
Title : Semivolatiles by GC/MS by modified 8270
Last Update : Wed Jun 19 22:04:59 2024



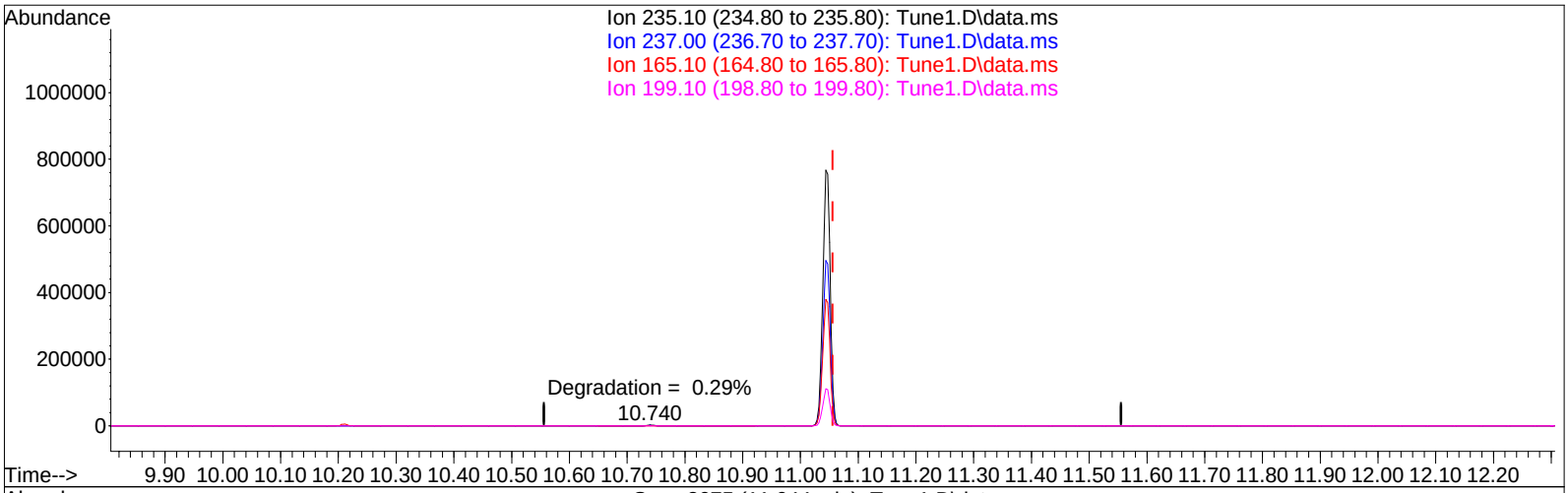
Spectrum Information: Average of 9.248 to 9.254 min.

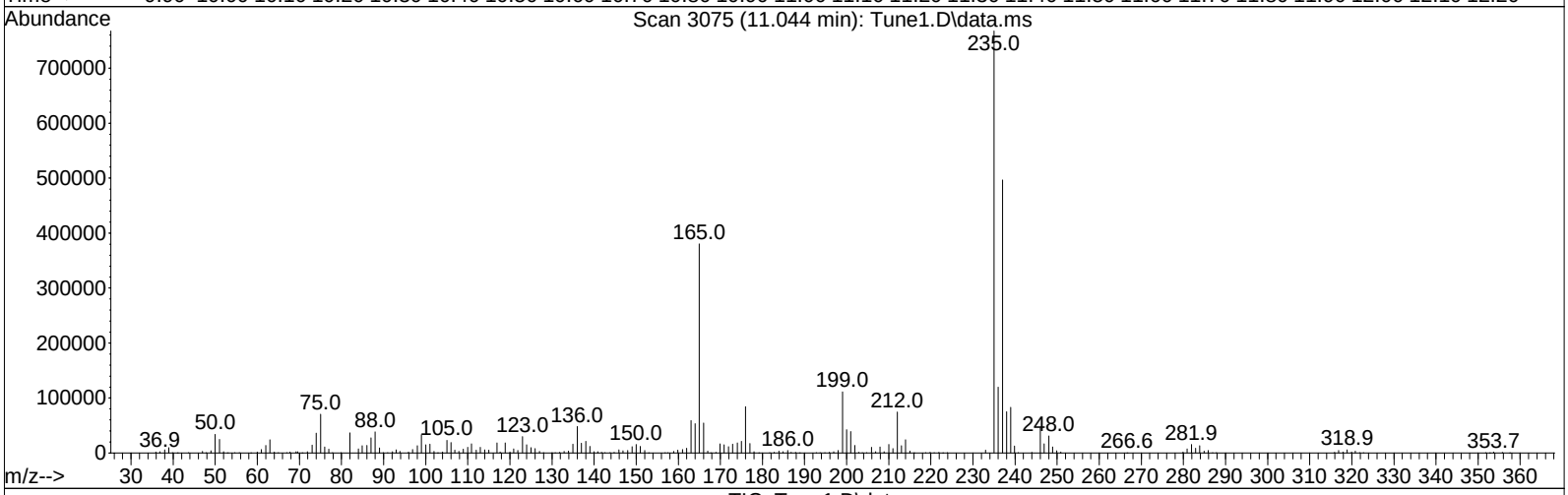
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	34.9	94856	PASS
68	69	0.00	2	1.1	1333	PASS
69	69	100	100	100.0	119693	PASS
70	69	0.00	2	0.4	482	PASS
127	198	10	80	46.0	124888	PASS
197	198	0.00	2	0.4	1045	PASS
198	198	100	100	100.0	271424	PASS
199	198	5	9	7.0	18957	PASS
275	198	10	60	24.6	66819	PASS
365	198	1	100	2.8	7470	PASS
441	442	0.01	24	17.0	32731	PASS
442	198	50	100	70.7	192021	PASS
443	442	15	24	18.5	35472	PASS

Quantitation Report (Qedit)

Data Path : I:\8270\Dakota\240618ical\
Data File : Tune1.D
Acq On : 18 Jun 2024 11:59 am
Operator : Dakota:cmm
Sample : Tune Lot#10812
Misc : WG1938219,,
ALS Vial : 100 Sample Multiplier: 1

Quant Time: Jun 18 14:42:09 2024
Quant Method : I:\8270\Dakota\240618ical\DftppDakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Jun 13 07:04:58 2024
Response via : Initial Calibration





TIC: Tune1.D\data.ms

(6) DDT (T)

11.044min (-0.012) 112.93

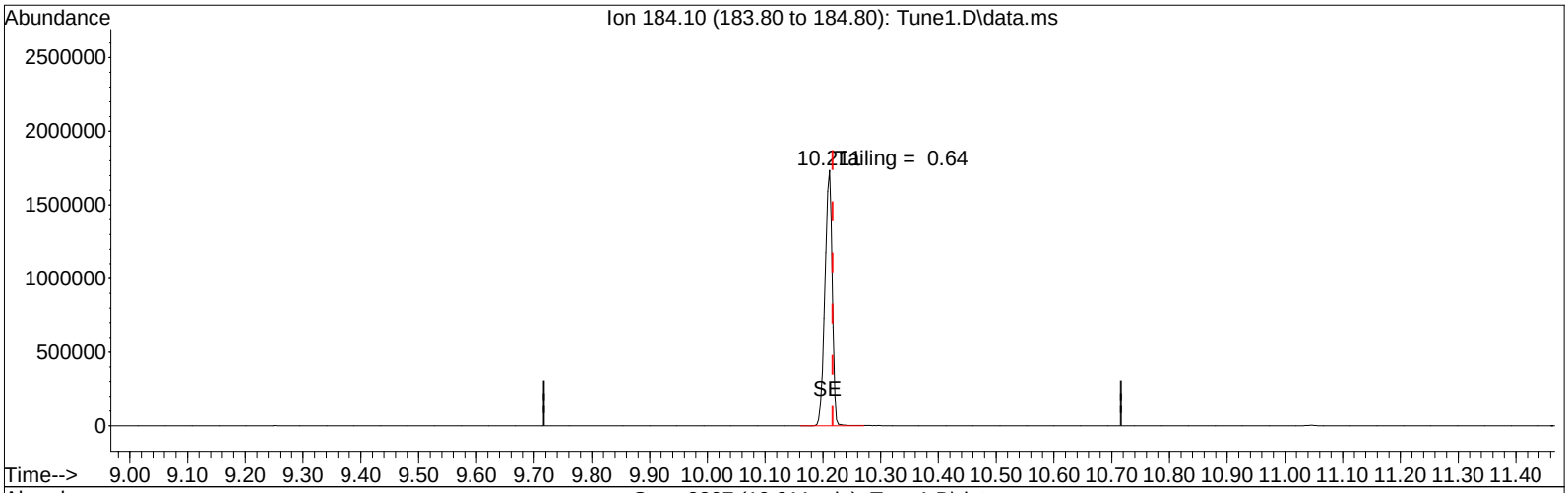
response 688362

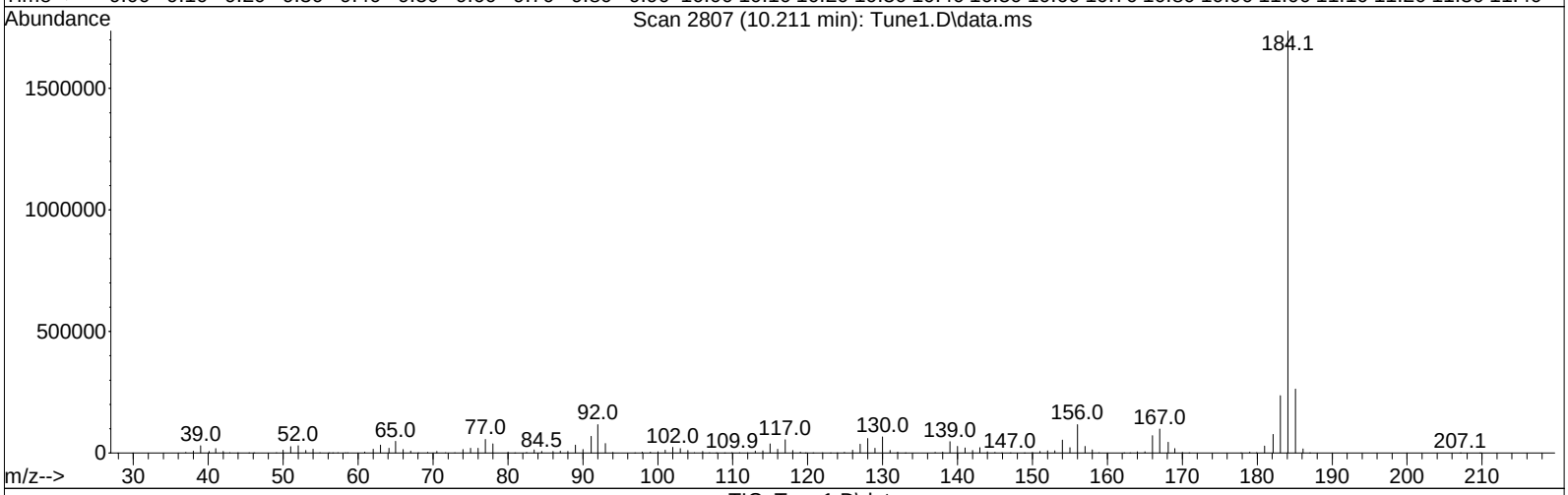
Ion	Exp%	Act%
235.10	100.00	100.00
237.00	66.20	64.81
165.10	47.40	49.06
199.10	13.90	14.30

Quantitation Report (Qedit)

Data Path : I:\8270\Dakota\240618ical\
Data File : Tune1.D
Acq On : 18 Jun 2024 11:59 am
Operator : Dakota:cmm
Sample : Tune Lot#10812
Misc : WG1938219,,
ALS Vial : 100 Sample Multiplier: 1

Quant Time: Jun 18 14:42:09 2024
Quant Method : I:\8270\Dakota\240618ical\DftppDakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Jun 13 07:04:58 2024
Response via : Initial Calibration





TIC: Tune1.D\data.ms

(3) Benzidine (T)

10.211min (-0.006) 149.21

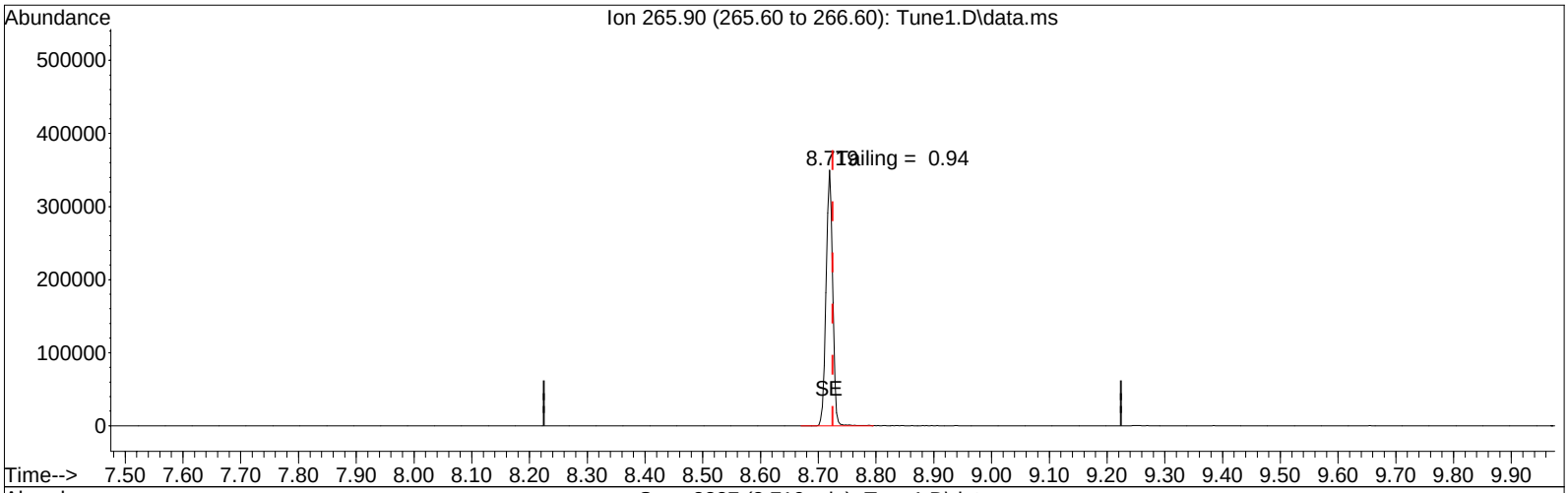
response 1519005

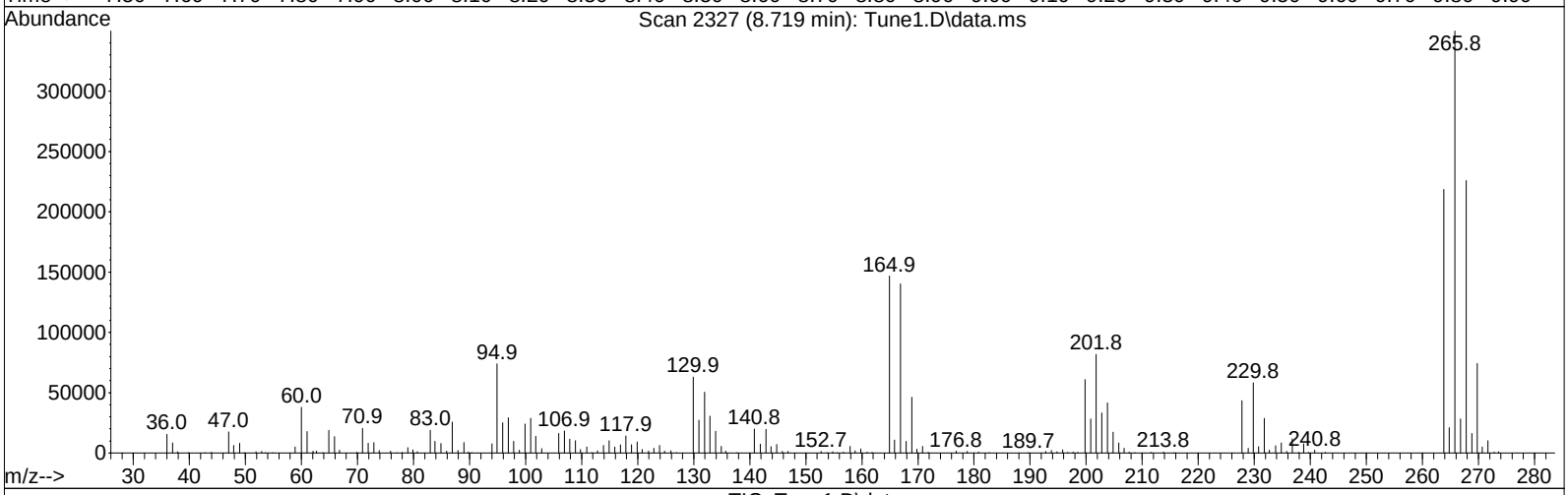
Ion	Exp%	Act%
184.10	100.00	100.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\8270\Dakota\240618ical\
Data File : Tune1.D
Acq On : 18 Jun 2024 11:59 am
Operator : Dakota:cmm
Sample : Tune Lot#10812
Misc : WG1938219,,
ALS Vial : 100 Sample Multiplier: 1

Quant Time: Jun 18 14:42:09 2024
Quant Method : I:\8270\Dakota\240618ical\DftppDakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Jun 13 07:04:58 2024
Response via : Initial Calibration





TIC: Tune1.D\data.ms

(1) Pentachlorophenol (T)

8.719min (-0.006) 133.32

response 280011

Ion	Exp%	Act%
265.90	100.00	100.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\240618ical\
Data File : ABNL9.D
Acq On : 18 Jun 2024 12:22 pm
Operator : Dakota:cmm
Sample : IL2,32,,ABNL50 Lot# 10778
Misc : WG1938219,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 19 20:55:01 2024
Quant Method : I:\8270\Dakota\240618ical\FS240618RVT_14D_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Jun 19 16:29:12 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\240618ical\ABNL6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) IS1_1,4-Dichlorobenzen...	4.527	152	32023	4.000 ug/ml	0.00
Standard Area 1 = 28474			Recovery = 112.46%		
35) IS1_Naphthalene-d8	5.764	136	109607	4.000 ug/ml	0.00
Standard Area 1 = 106396			Recovery = 103.02%		
63) IS1_Acenaphthene-d10	7.461	164	75182	4.000 ug/ml	0.00
Standard Area 1 = 71692			Recovery = 104.87%		
88) IS1_Phenanthrene-d10	8.884	188	170124	4.000 ug/ml	0.00
Standard Area 1 = 164397			Recovery = 103.48%		
104) IS1_Chrysene-d12	11.498	240	161651	4.000 ug/ml	0.00
Standard Area 1 = 172424			Recovery = 93.75%		
113) IS1_Perylene-d12	12.937	264	202690	4.000 ug/ml	0.00
Standard Area 1 = 205352			Recovery = 98.70%		
System Monitoring Compounds					
4) 2-Fluorophenol	3.255	112	429903	52.977 ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 2648.85%#		
7) Phenol-d6	4.222	99	544127	54.144 ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 2707.20%#		
19) Nitrobenzene-d5	5.074	82	501221	48.199 ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 4819.90%#		
46) 2-Fluorobiphenyl	6.836	172	1210986	47.338 ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 4733.80%#		
79) 2,4,6-Tribromophenol	8.228	330	263721	51.993 ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 2599.65%#		
96) 4-Terphenyl-d14	10.460	244	1869222	44.994 ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 4499.40%#		
Target Compounds					Qvalue
2) n-Nitrosodimethylamine	1.847	74	293089	54.149 ug/ml#	77
3) Pyridine	1.879	79	480289	55.483 ug/ml#	47
5) Aniline	4.213	93	695265	52.969 ug/ml	94
6) 2-Chlorophenol	4.325	128	473340	50.666 ug/ml#	88
8) Phenol	4.238	94	628210	52.084 ug/ml#	88
9) Bis(2-chloroethyl)ether	4.297	93	381702	49.550 ug/ml	95
10) 1,3-Dichlorobenzene	4.471	146	575337	49.058 ug/ml	94
11) 1,4-Dichlorobenzene	4.545	146	570972	48.096 ug/ml	94
12) 1,2-Dichlorobenzene	4.691	146	550802	49.026 ug/ml	94
13) Benzyl alcohol	4.688	79	413053	52.563 ug/ml	97
14) Bis(2-chloroisopropyl)...	4.828	45	528136	47.438 ug/ml#	39

Data Path : I:\8270\Dakota\240618ical\
Data File : ABNL9.D
Acq On : 18 Jun 2024 12:22 pm
Operator : Dakota:cmm
Sample : IL2,32,,ABNL50 Lot# 10778
Misc : WG1938219,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 19 20:55:01 2024
Quant Method : I:\8270\Dakota\240618ical\FS240618RVT_14D_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Jun 19 16:29:12 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\240618ical\ABNL6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
15) 2-Methylphenol	4.822	108	405290	49.796	ug/ml	97
16) Hexachloroethane	5.018	117	206096	49.109	ug/ml#	45
17) n-Nitrosodi-n-propylamine	4.962	70	344844	48.710	ug/ml#	88
18) 3-Methylphenol/4-Methy...	4.980	108	428324	49.453	ug/ml	96
20) Nitrobenzene	5.092	77	492494	48.865	ug/ml	95
21) Isophorone	5.338	82	896664	49.051	ug/ml	93
22) 2-Nitrophenol	5.406	139	266018	51.696	ug/ml	89
23) 2,4-Dimethylphenol	5.490	107	430981	50.761	ug/ml	97
24) Bis(2-chloroethoxy)met...	5.574	93	500114	46.748	ug/ml#	94
25) 2,4-Dichlorophenol	5.646	162	493351	48.792	ug/ml#	92
26) 1,2,4-Trichlorobenzene	5.720	180	553674	47.016	ug/ml#	97
36) Naphthalene	5.785	128	1271471	47.990	ug/ml	97
37) Benzoic Acid	5.658	105	383687	65.274	ug/ml	93
38) 4-Chloroaniline	5.860	65	170017	51.671	ug/ml	83
39) Hexachlorobutadiene	5.935	225	329481	50.125	ug/ml	99
40) p-Chloro-m-cresol	6.357	107	427284	55.035	ug/ml	90
41) 2-Methylnaphthalene	6.463	142	970253	50.114	ug/ml	95
42) 1-Methylnaphthalene	6.553	115	322696	51.123	ug/ml	97
43) Hexachlorocyclopentadiene	6.631	237	408473	53.398	ug/ml	98
44) 2,4,6-Trichlorophenol	6.749	196	420499	53.560	ug/ml	99
45) 2,4,5-Trichlorophenol	6.780	196	445083	52.257	ug/ml	98
47) 2-Chloronaphthalene	6.926	162	1051546	48.917	ug/ml	92
48) 2-Nitroaniline	7.044	138	328023	55.145	ug/ml#	82
49) 1,4-Dinitrobenzene	7.178	168	171689	55.333	ug/ml	81
50) 1,3-Dinitrobenzene	7.252	168	187949	52.704	ug/ml#	1
51) Dimethyl phthalate	7.252	163	1257706	48.106	ug/ml#	97
52) Acenaphthylene	7.324	152	1537093	47.137	ug/ml	97
53) 2,6-Dinitrotoluene	7.290	165	279820	50.732	ug/ml#	75
54) 1,2-Dinitrobenzene	7.336	168	103986	49.800	ug/ml#	1
64) 3-Nitroaniline	7.445	138	289717	52.423	ug/ml#	89
65) Acenaphthene	7.495	154	917856	47.874	ug/ml	91
66) 2,4-Dinitrophenol	7.545	184	215971	55.680	ug/ml#	82
67) Dibenzofuran	7.666	168	1513673	45.472	ug/ml	91
68) 2,4-Dinitrotoluene	7.678	165	390108	49.985	ug/ml	88
69) 4-Nitrophenol	7.641	65	240339	52.391	ug/ml#	80
70) 2,3,5,6-Tetrachlorophenol	7.756	232	391212	50.096	ug/ml	99
71) 2,3,4,6-Tetrachlorophenol	7.796	232	373087	49.117	ug/ml	98
72) Diethyl phthalate	7.939	149	1286686	47.297	ug/ml	99
73) Fluorene	7.995	166	1206793	46.699	ug/ml	92
74) 4-Chlorophenyl phenyl ...	8.014	204	609183	45.952	ug/ml#	85

Data Path : I:\8270\Dakota\240618ical\
Data File : ABNL9.D
Acq On : 18 Jun 2024 12:22 pm
Operator : Dakota:cmm
Sample : IL2,32,,ABNL50 Lot# 10778
Misc : WG1938219,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 19 20:55:01 2024
Quant Method : I:\8270\Dakota\240618ical\FS240618RVT_14D_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Jun 19 16:29:12 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\240618ical\ABNL6.D
Sub List : ABNical - ABN ical sublist

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
75)	4-Nitroaniline	8.042	138	279929	50.083	ug/ml#	80
76)	4,6-Dinitro-o-cresol	8.070	198	267911	52.378	ug/ml#	55
77)	NDPA/DPA	8.135	169	1014423	45.926	ug/ml	90
78)	Azobenzene	8.166	77	1044134	46.171	ug/ml	96
80)	4-Bromophenyl phenyl e...	8.480	248	425836M3	49.989	ug/ml	
81)	Hexachlorobenzene	8.530	284	521963	50.107	ug/ml#	80
82)	Pentachlorophenol	8.723	266	383919	55.617	ug/ml	99
89)	Phenanthrene	8.909	178	1944915	45.917	ug/ml	96
90)	Anthracene	8.962	178	1921197	45.499	ug/ml	95
91)	Carbazole	9.130	167	1878114	46.310	ug/ml	96
92)	Di-n-butylphthalate	9.521	149	2330122	48.871	ug/ml	97
93)	Fluoranthene	10.056	202	2435151	46.657	ug/ml#	90
94)	Benzidine	10.214	184	1582844	49.358	ug/ml#	93
95)	Pyrene	10.270	202	2419850	44.012	ug/ml	95
97)	Butyl benzyl phthalate	10.982	149	1180604	52.844	ug/ml	86
105)	Benzo(a)anthracene	11.486	228	2480140	48.761	ug/ml	96
106)	3,3'-Dichlorobenzidine	11.492	252	1048160	51.267	ug/ml#	95
107)	Chrysene	11.529	228	2174632	45.493	ug/ml	95
108)	Bis(2-ethylhexyl)phtha...	11.613	149	1617842	51.226	ug/ml#	93
109)	Di-n-octylphthalate	12.285	149	2971538	55.166	ug/ml#	72
110)	Benzo(b)fluoranthene	12.583	252	2878936	52.737	ug/ml#	91
111)	Benzo(k)fluoranthene	12.614	252	2360151M3	45.145	ug/ml	
112)	Benzo(a)pyrene	12.894	252	2551340M2	50.995	ug/ml	
114)	Indeno(1,2,3-cd)pyrene	13.901	276	3287551M6	54.475	ug/mL	
115)	Dibenzo(a,h)anthracene	13.922	278	2702348	47.189	ug/ml#	88
116)	Benzo(ghi)perylene	14.121	276	2693960	49.226	ug/ml#	84

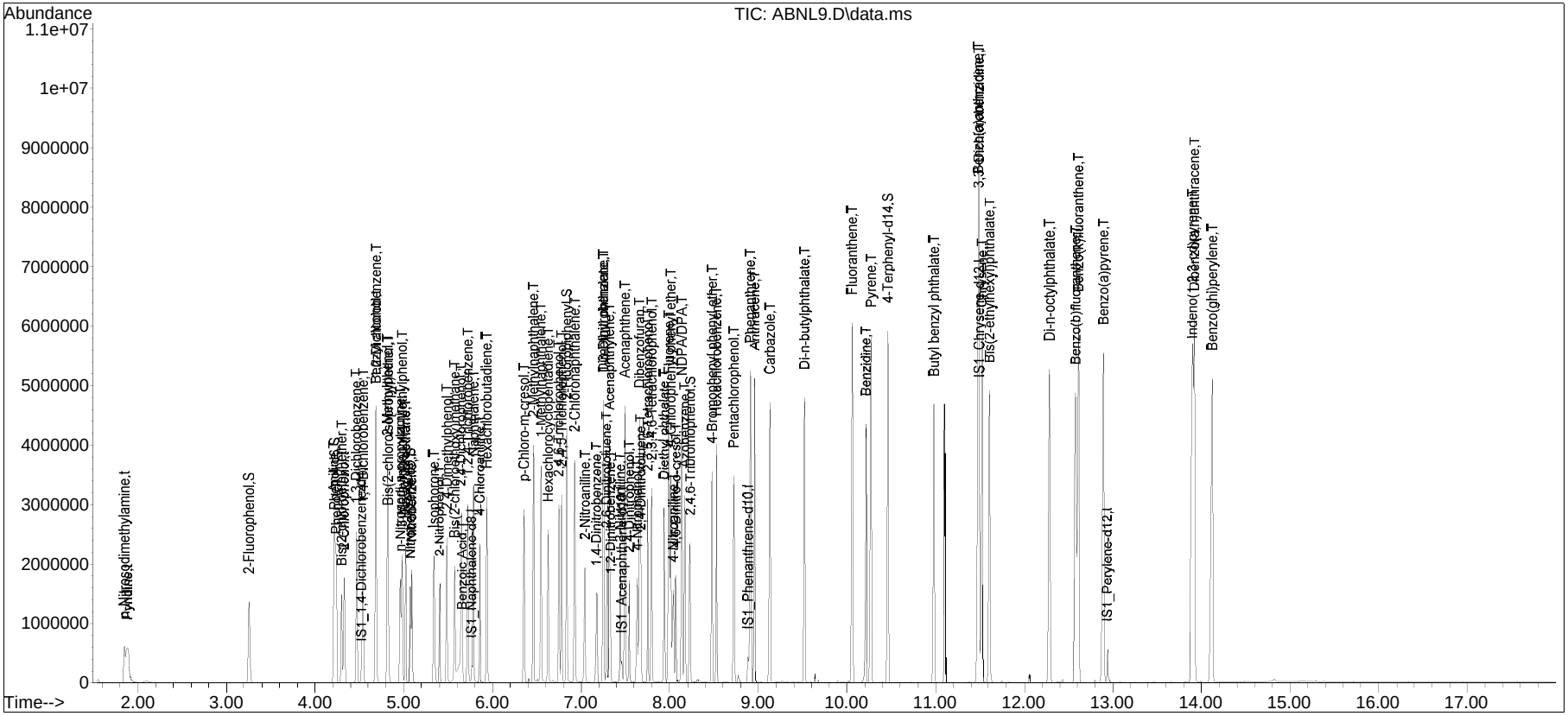
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\240618ical\
Data File : ABNL9.D
Acq On : 18 Jun 2024 12:22 pm
Operator : Dakota:cmm
Sample : IL2,32,,ABNL50 Lot# 10778
Misc : WG1938219,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 19 20:55:01 2024
Quant Method : I:\8270\Dakota\240618ical\FS240618RVT_14D_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Jun 19 16:29:12 2024
Response via : Initial Calibration

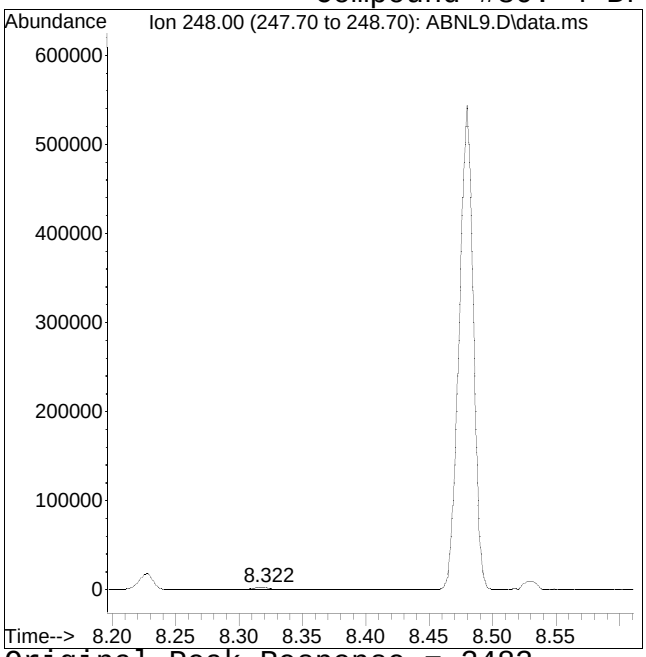
Sub List : ABNical - ABN ical sublistcal\ABNL6.D•

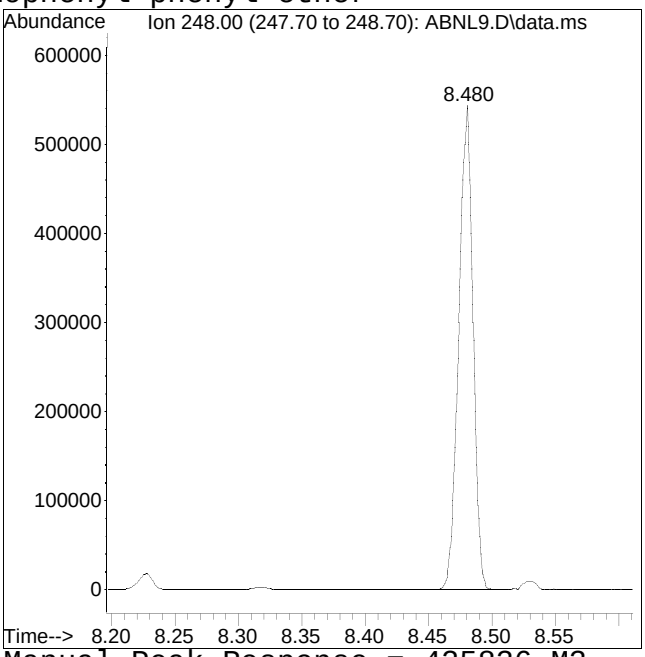


Manual Integration Report

Data Path : I:\8270\Dakota\240618ical\QMethod : FS240618RVT_14D_Dakota.m
Data File : ABNL9.D Operator : Dakota:cmm
Date Inj'd : 6/18/2024 12:22 pm Instrument : Dakota
Sample : IL2,32,,ABNL50 Lot# 10778 Quant Date : 6/19/2024 4:30 pm

Compound #80: 4-Bromophenyl phenyl ether



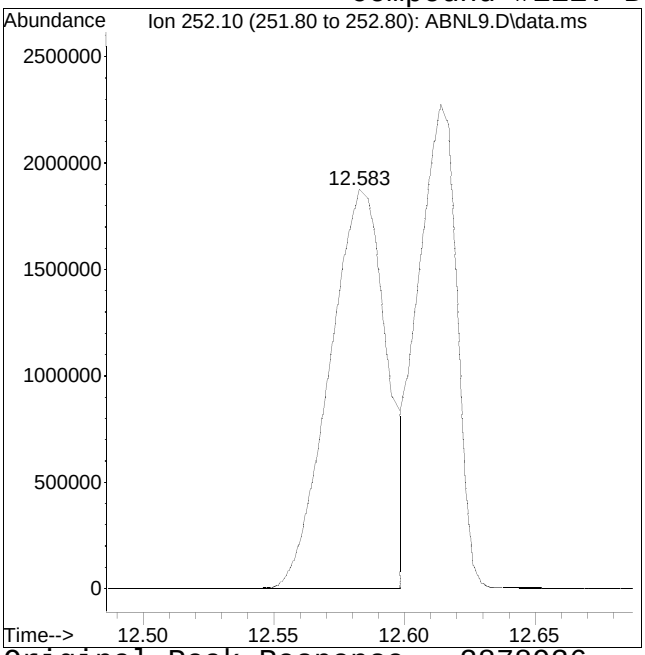


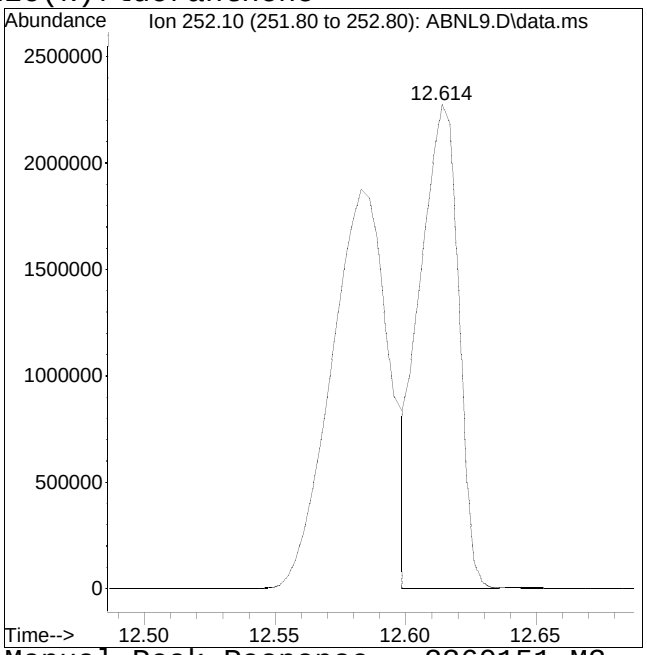
Original Peak Response = 2483 Manual Peak Response = 425836 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\8270\Dakota\240618ical\QMethod : FS240618RVT_14D_Dakota.m
Data File : ABNL9.D Operator : Dakota:cmm
Date Inj'd : 6/18/2024 12:22 pm Instrument : Dakota
Sample : IL2,32,,ABNL50 Lot# 10778 Quant Date : 6/19/2024 4:30 pm

Compound #111: Benzo(k)fluoranthene



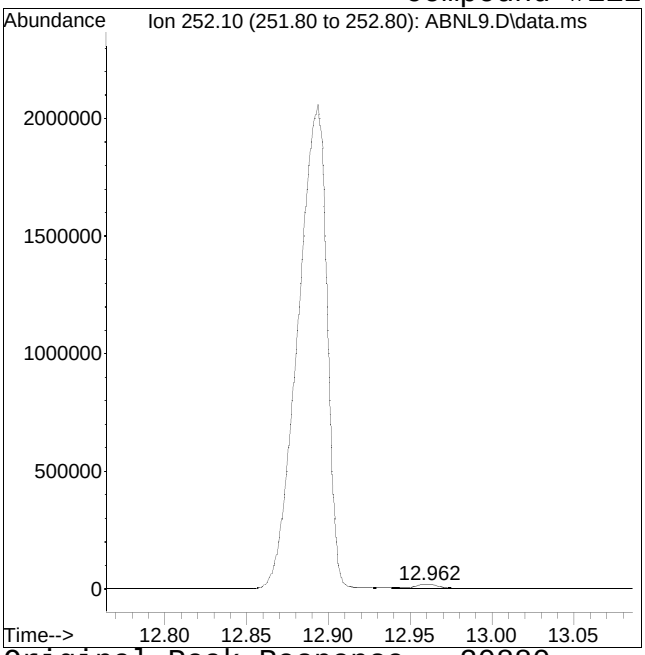


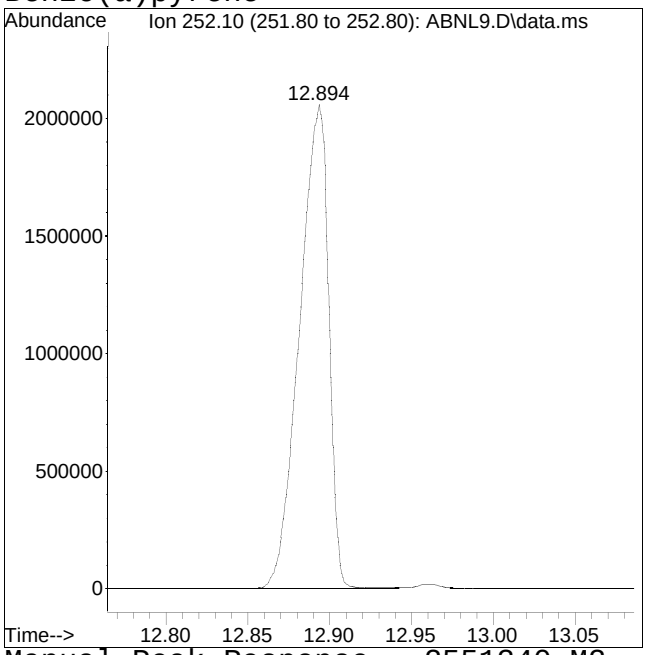
Original Peak Response = 2878936 Manual Peak Response = 2360151 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\8270\Dakota\240618ical\QMethod : FS240618RVT_14D_Dakota.m
Data File : ABNL9.D Operator : Dakota:cmm
Date Inj'd : 6/18/2024 12:22 pm Instrument : Dakota
Sample : IL2,32,,ABNL50 Lot# 10778 Quant Date : 6/19/2024 4:30 pm

Compound #112: Benzo(a)pyrene



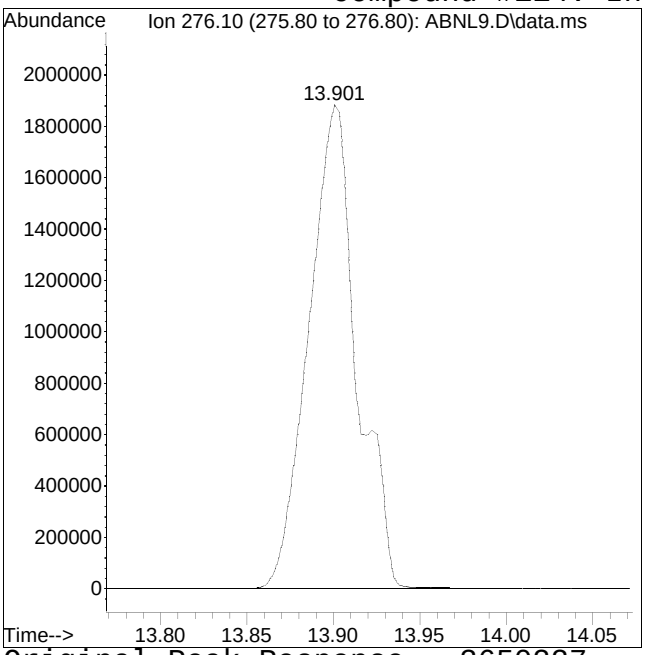


Original Peak Response = 20880 Manual Peak Response = 2551340 M2
M2 = Peak not found by automatic integration algorithm.

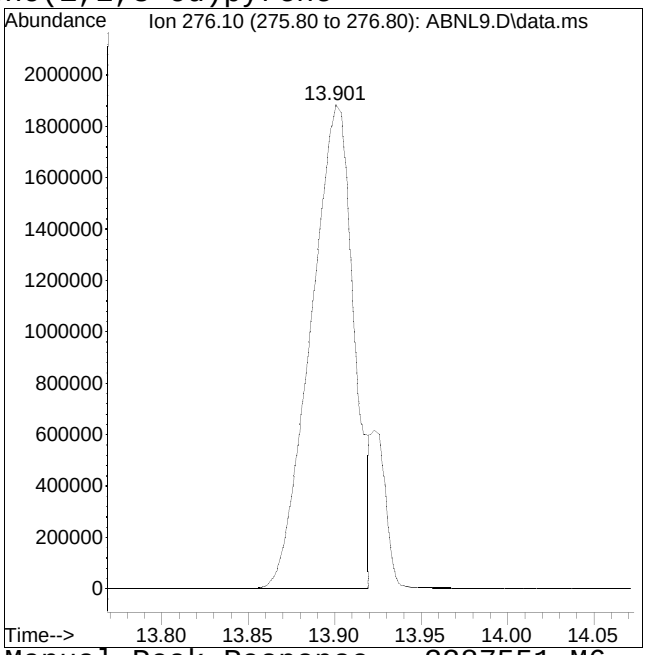
Manual Integration Report

Data Path : I:\8270\Dakota\240618ical\QMethod : FS240618RVT_14D_Dakota.m
Data File : ABNL9.D Operator : Dakota:cmm
Date Inj'd : 6/18/2024 12:22 pm Instrument : Dakota
Sample : IL2,32,,ABNL50 Lot# 10778 Quant Date : 6/19/2024 4:30 pm

Compound #114: Indeno(1,2,3-cd)pyrene



Original Peak Response = 3650227



Manual Peak Response = 3287551 M6

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\240618ical\
Data File : ABNL8.D
Acq On : 18 Jun 2024 12:45 pm
Operator : Dakota:cmm
Sample : IL3,32,,ABNL25 Lot# 10779
Misc : WG1938219,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 19 20:53:47 2024
Quant Method : I:\8270\Dakota\240618ical\FS240618RVT_14D_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Jun 19 20:53:00 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\240618ical\ABNL6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) IS1_1,4-Dichlorobenzen...	4.527	152	28313	4.000 ug/ml	0.00
Standard Area 1 = 28474			Recovery = 99.43%		
35) IS1_Naphthalene-d8	5.760	136	98532	4.000 ug/ml	0.00
Standard Area 1 = 106396			Recovery = 92.61%		
63) IS1_Acenaphthene-d10	7.461	164	66993	4.000 ug/ml	0.00
Standard Area 1 = 71692			Recovery = 93.45%		
88) IS1_Phenanthrene-d10	8.884	188	154338	4.000 ug/ml	0.00
Standard Area 1 = 164397			Recovery = 93.88%		
104) IS1_Chrysene-d12	11.492	240	159544	4.000 ug/ml	0.00
Standard Area 1 = 172424			Recovery = 92.53%		
113) IS1_Perylene-d12	12.934	264	189174	4.000 ug/ml	0.00
Standard Area 1 = 205352			Recovery = 92.12%		
System Monitoring Compounds					
4) 2-Fluorophenol	3.252	112	181354	25.078 ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 1253.90%#		
7) Phenol-d6	4.216	99	228399	25.027 ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 1251.35%#		
19) Nitrobenzene-d5	5.070	82	222702	22.759 ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 2275.90%#		
46) 2-Fluorobiphenyl	6.833	172	559208	21.975 ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 2197.50%#		
79) 2,4,6-Tribromophenol	8.222	330	114938	26.722 ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 1336.10%#		
96) 4-Terphenyl-d14	10.457	244	890855	21.383 ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 2138.30%#		
Target Compounds					Qvalue
2) n-Nitrosodimethylamine	1.841	74	119852	24.483 ug/ml#	76
3) Pyridine	1.872	79	194848	24.610 ug/ml#	46
5) Aniline	4.210	93	294753	24.388 ug/ml	98
6) 2-Chlorophenol	4.321	128	200818	24.717 ug/ml#	90
8) Phenol	4.228	94	265318	24.904 ug/ml	92
9) Bis(2-chloroethyl)ether	4.293	93	164209	23.069 ug/ml	95
10) 1,3-Dichlorobenzene	4.471	146	253506	23.987 ug/ml	94
11) 1,4-Dichlorobenzene	4.542	146	253723	22.952 ug/ml	94
12) 1,2-Dichlorobenzene	4.691	146	243529	23.303 ug/ml	95
13) Benzyl alcohol	4.685	79	174731	25.649 ug/ml	97
14) Bis(2-chloroisopropyl)...	4.825	45	228624	21.148 ug/ml#	39

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\240618ical\
Data File : ABNL8.D
Acq On : 18 Jun 2024 12:45 pm
Operator : Dakota:cmm
Sample : IL3,32,,ABNL25 Lot# 10779
Misc : WG1938219,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 19 20:53:47 2024
Quant Method : I:\8270\Dakota\240618ical\FS240618RVT_14D_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Jun 19 20:53:00 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\240618ical\ABNL6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
15) 2-Methylphenol	4.819	108	177130	23.882	ug/ml	98
16) Hexachloroethane	5.015	117	90006	22.910	ug/ml#	45
17) n-Nitrosodi-n-propylamine	4.952	70	151494	23.079	ug/ml#	87
18) 3-Methylphenol/4-Methy...	4.974	108	188769	24.177	ug/ml	96
20) Nitrobenzene	5.089	77	220114	23.641	ug/ml	94
21) Isophorone	5.332	82	394753	24.392	ug/ml#	93
22) 2-Nitrophenol	5.403	139	117018	25.932	ug/ml	89
23) 2,4-Dimethylphenol	5.484	107	184391	23.524	ug/ml	97
24) Bis(2-chloroethoxy)met...	5.571	93	225933	22.210	ug/ml#	96
25) 2,4-Dichlorophenol	5.642	162	217331	24.774	ug/ml#	92
26) 1,2,4-Trichlorobenzene	5.717	180	249649	22.242	ug/ml#	96
36) Naphthalene	5.782	128	585513	22.194	ug/ml	99
37) Benzoic Acid	5.611	105	163241	42.682	ug/ml	95
38) 4-Chloroaniline	5.854	65	73775	23.290	ug/ml	79
39) Hexachlorobutadiene	5.934	225	146821	23.518	ug/ml	98
40) p-Chloro-m-cresol	6.354	107	182479	25.801	ug/ml	90
41) 2-Methylnaphthalene	6.460	142	432045	23.024	ug/ml	94
42) 1-Methylnaphthalene	6.550	115	137130	22.253	ug/ml	94
43) Hexachlorocyclopentadiene	6.631	237	175799	24.643	ug/ml	100
44) 2,4,6-Trichlorophenol	6.749	196	185884	25.698	ug/ml	98
45) 2,4,5-Trichlorophenol	6.777	196	198925	25.694	ug/ml	98
47) 2-Chloronaphthalene	6.923	162	476090	22.800	ug/ml#	91
48) 2-Nitroaniline	7.038	138	144654	27.178	ug/ml#	82
49) 1,4-Dinitrobenzene	7.168	168	75199	26.459	ug/ml	82
50) 1,3-Dinitrobenzene	7.246	168	83912	27.515	ug/ml#	1
51) Dimethyl phthalate	7.243	163	582587	22.288	ug/ml#	97
52) Acenaphthylene	7.318	152	720600	23.100	ug/ml	99
53) 2,6-Dinitrotoluene	7.283	165	124589	24.792	ug/ml#	76
54) 1,2-Dinitrobenzene	7.327	168	46698	25.760	ug/ml#	1
64) 3-Nitroaniline	7.436	138	128855	26.249	ug/ml#	90
65) Acenaphthene	7.492	154	418485	21.548	ug/ml	89
66) 2,4-Dinitrophenol	7.535	184	95178	35.138	ug/ml#	82
67) Dibenzofuran	7.660	168	701414	21.181	ug/ml	91
68) 2,4-Dinitrotoluene	7.669	165	180175	26.967	ug/ml	87
69) 4-Nitrophenol	7.632	65	106928	25.885	ug/ml#	81
70) 2,3,5,6-Tetrachlorophenol	7.753	232	177175	24.612	ug/ml	98
71) 2,3,4,6-Tetrachlorophenol	7.793	232	166706	24.756	ug/ml	97
72) Diethyl phthalate	7.933	149	582838	21.899	ug/ml	99
73) Fluorene	7.989	166	557468	22.363	ug/ml	92
74) 4-Chlorophenyl phenyl ...	8.011	204	279486	21.006	ug/ml#	84

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\240618ical\
Data File : ABNL8.D
Acq On : 18 Jun 2024 12:45 pm
Operator : Dakota:cmm
Sample : IL3,32,,ABNL25 Lot# 10779
Misc : WG1938219,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 19 20:53:47 2024
Quant Method : I:\8270\Dakota\240618ical\FS240618RVT_14D_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Jun 19 20:53:00 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\240618ical\ABNL6.D
Sub List : ABNical - ABN ical sublist

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
75)	4-Nitroaniline	8.026	138	129198	26.671	ug/ml#	78
76)	4,6-Dinitro-o-cresol	8.060	198	121997	30.140	ug/ml#	53
77)	NDPA/DPA	8.129	169	471662	21.948	ug/ml	91
78)	Azobenzene	8.160	77	484257	22.479	ug/ml	96
80)	4-Bromophenyl phenyl e...	8.477	248	188642	22.446	ug/ml#	79
81)	Hexachlorobenzene	8.527	284	235114	22.497	ug/ml#	79
82)	Pentachlorophenol	8.719	266	168504	28.705	ug/ml	99
89)	Phenanthrene	8.906	178	929543	21.471	ug/ml	98
90)	Anthracene	8.956	178	923623	22.269	ug/ml	97
91)	Carbazole	9.127	167	894254	22.909	ug/ml	98
92)	Di-n-butylphthalate	9.518	149	1082787	24.582	ug/ml	97
93)	Fluoranthene	10.053	202	1179667	22.567	ug/ml#	90
94)	Benzidine	10.208	184	749164	26.749	ug/ml#	93
95)	Pyrene	10.264	202	1197700	22.125	ug/ml	98
97)	Butyl benzyl phthalate	10.979	149	533132	27.800	ug/ml	85
105)	Benzo(a)anthracene	11.482	228	1250710	23.045	ug/ml	97
106)	3,3'-Dichlorobenzidine	11.486	252	528711	27.239	ug/ml#	96
107)	Chrysene	11.520	228	1092845	20.655	ug/ml	96
108)	Bis(2-ethylhexyl)phtha...	11.610	149	774243	26.254	ug/ml#	92
109)	Di-n-octylphthalate	12.281	149	1418410	29.757	ug/ml#	71
110)	Benzo(b)fluoranthene	12.577	252	1357564	23.748	ug/ml#	92
111)	Benzo(k)fluoranthene	12.605	252	1238952	22.226	ug/ml#	92
112)	Benzo(a)pyrene	12.884	252	1230415	24.376	ug/ml#	91
114)	Indeno(1,2,3-cd)pyrene	13.891	276	1529247	26.560	ug/mL#	87
115)	Dibenzo(a,h)anthracene	13.913	278	1352615	24.618	ug/ml#	87
116)	Benzo(ghi)perylene	14.106	276	1296935	23.993	ug/ml#	83

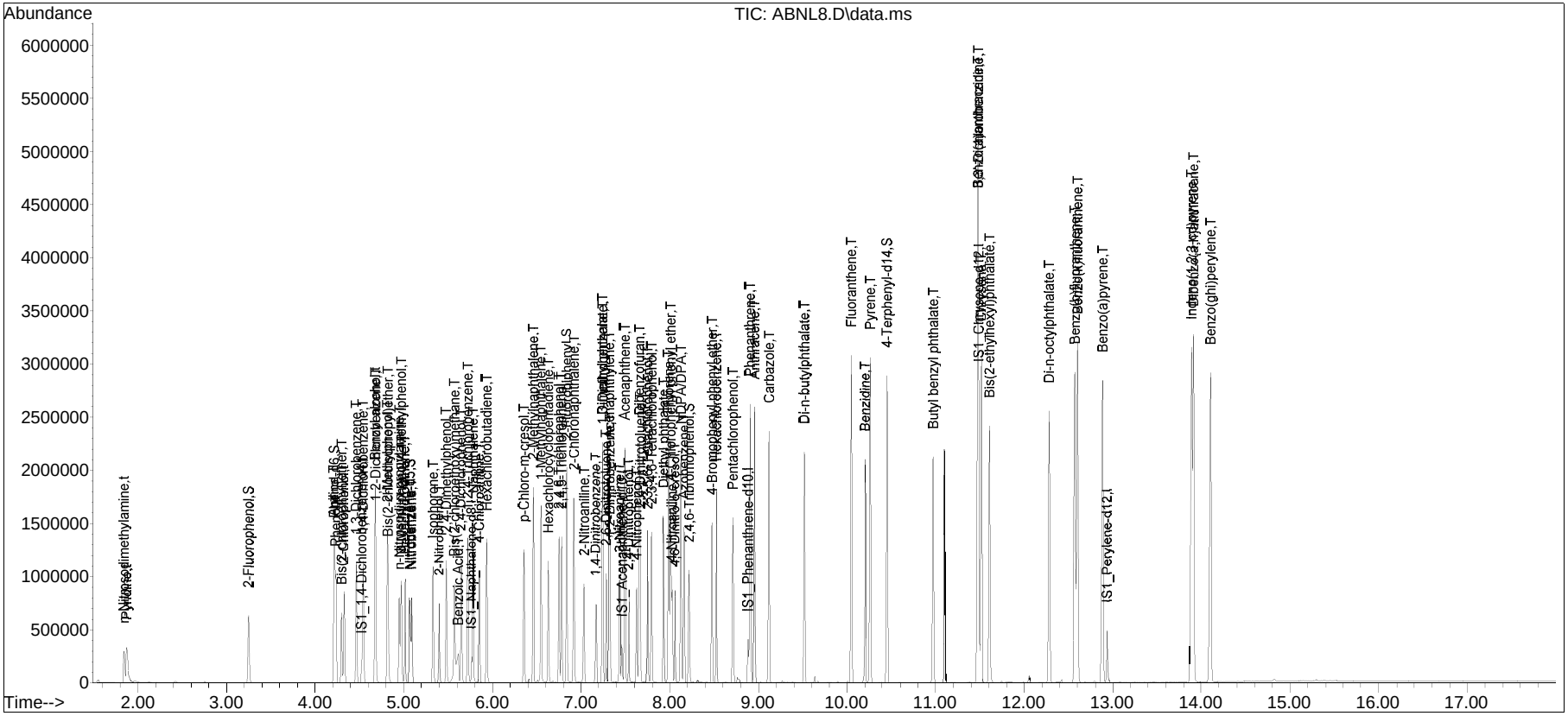
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\240618ical\
Data File : ABNL8.D
Acq On : 18 Jun 2024 12:45 pm
Operator : Dakota:cmm
Sample : IL3,32,,ABNL25 Lot# 10779
Misc : WG1938219,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 19 20:53:47 2024
Quant Method : I:\8270\Dakota\240618ical\FS240618RVT_14D_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Jun 19 20:53:00 2024
Response via : Initial Calibration

Sub List : ABNical - ABN ical sublistcal\ABNL6.D•



Manual Integration Report

Data Path	: I:\8270\Dakota\240618ical\	QMethod	: FS240618RVT_14D_Dakota.m
Data File	: ABNL8.D	Operator	: Dakota:cmm
Date Inj'd	: 6/18/2024 12:45 pm	Instrument	: Dakota
Sample	: IL3,32,,ABNL25 Lot# 10779	Quant Date	: 6/19/2024 8:53 pm

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\240618ical\
Data File : ABNL7.D
Acq On : 18 Jun 2024 1:07 pm
Operator : Dakota:cmm
Sample : IL4,32,,ABNL10 Lot# 10780
Misc : WG1938219,,
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 19 20:53:02 2024
Quant Method : I:\8270\Dakota\240618ical\FS240618RVT_14D_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Jun 19 16:29:12 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\240618ical\ABNL6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) IS1_1,4-Dichlorobenzen...	4.527	152	29758	4.000 ug/ml	# 0.00
Standard Area 1 = 28474			Recovery = 104.51%		
35) IS1_Naphthalene-d8	5.761	136	107070	4.000 ug/ml	0.00
Standard Area 1 = 106396			Recovery = 100.63%		
63) IS1_Acenaphthene-d10	7.458	164	71326	4.000 ug/ml	0.00
Standard Area 1 = 71692			Recovery = 99.49%		
88) IS1_Phenanthrene-d10	8.881	188	164668	4.000 ug/ml	0.00
Standard Area 1 = 164397			Recovery = 100.16%		
104) IS1_Chrysene-d12	11.489	240	168837	4.000 ug/ml	0.00
Standard Area 1 = 172424			Recovery = 97.92%		
113) IS1_Perylene-d12	12.934	264	199363	4.000 ug/ml	0.00
Standard Area 1 = 205352			Recovery = 97.08%		
System Monitoring Compounds					
4) 2-Fluorophenol	3.252	112	76323	10.121 ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 506.05%#		
7) Phenol-d6	4.213	99	96602	10.344 ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 517.20%#		
19) Nitrobenzene-d5	5.067	82	98863	10.231 ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 1023.10%#		
46) 2-Fluorobiphenyl	6.830	172	252239	10.094 ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 1009.40%#		
79) 2,4,6-Tribromophenol	8.219	330	50456	10.485 ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 524.25%#		
96) 4-Terphenyl-d14	10.454	244	409081	10.173 ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 1017.30%#		
Target Compounds					Qvalue
2) n-Nitrosodimethylamine	1.844	74	51919	10.322 ug/ml#	74
3) Pyridine	1.872	79	83739	10.410 ug/ml#	47
5) Aniline	4.210	93	124872	10.238 ug/ml	94
6) 2-Chlorophenol	4.322	128	88680	10.215 ug/ml#	89
8) Phenol	4.225	94	116083	10.357 ug/ml#	88
9) Bis(2-chloroethyl)ether	4.294	93	72724	10.159 ug/ml	93
10) 1,3-Dichlorobenzene	4.468	146	110857	10.172 ug/ml	93
11) 1,4-Dichlorobenzene	4.542	146	112911	10.235 ug/ml	94
12) 1,2-Dichlorobenzene	4.688	146	106342	10.186 ug/ml	93
13) Benzyl alcohol	4.682	79	73627	10.082 ug/ml	97
14) Bis(2-chloroisopropyl)...	4.825	45	104007	10.053 ug/ml#	43

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\240618ical\
Data File : ABNL7.D
Acq On : 18 Jun 2024 1:07 pm
Operator : Dakota:cmm
Sample : IL4,32,,ABNL10 Lot# 10780
Misc : WG1938219,,
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 19 20:53:02 2024
Quant Method : I:\8270\Dakota\240618ical\FS240618RVT_14D_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Jun 19 16:29:12 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\240618ical\ABNL6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
15) 2-Methylphenol	4.816	108	75623	9.999	ug/ml	96
16) Hexachloroethane	5.015	117	39507	10.130	ug/ml#	41
17) n-Nitrosodi-n-propylamine	4.952	70	67620	10.279	ug/ml#	88
18) 3-Methylphenol/4-Methy...	4.971	108	83352	10.356	ug/ml	97
20) Nitrobenzene	5.086	77	95873	10.236	ug/ml	94
21) Isophorone	5.329	82	171545	10.098	ug/ml#	93
22) 2-Nitrophenol	5.400	139	50564	10.574	ug/ml#	86
23) 2,4-Dimethylphenol	5.484	107	79326	10.054	ug/ml	96
24) Bis(2-chloroethoxy)met...	5.568	93	98877	9.946	ug/ml	96
25) 2,4-Dichlorophenol	5.642	162	96273	10.246	ug/ml#	91
26) 1,2,4-Trichlorobenzene	5.717	180	109924	10.045	ug/ml#	96
36) Naphthalene	5.779	128	266967	10.315	ug/ml	99
37) Benzoic Acid	5.577	105	61686	10.743	ug/ml	91
38) 4-Chloroaniline	5.854	65	32182	10.012	ug/ml	74
39) Hexachlorobutadiene	5.931	225	67179	10.462	ug/ml	95
40) p-Chloro-m-cresol	6.351	107	77916	10.273	ug/ml	90
41) 2-Methylnaphthalene	6.460	142	193699	10.242	ug/ml	97
42) 1-Methylnaphthalene	6.550	115	64177	10.408	ug/ml	97
43) Hexachlorocyclopentadiene	6.631	237	78151	10.458	ug/ml	98
44) 2,4,6-Trichlorophenol	6.746	196	80789	10.534	ug/ml	99
45) 2,4,5-Trichlorophenol	6.777	196	85634	10.292	ug/ml	99
47) 2-Chloronaphthalene	6.923	162	213599	10.172	ug/ml#	91
48) 2-Nitroaniline	7.035	138	61009	10.499	ug/ml	83
49) 1,4-Dinitrobenzene	7.165	168	31398	10.359	ug/ml	84
50) 1,3-Dinitrobenzene	7.243	168	35788	10.273	ug/ml#	1
51) Dimethyl phthalate	7.240	163	259234	10.150	ug/ml#	98
52) Acenaphthylene	7.318	152	322061	10.110	ug/ml	99
53) 2,6-Dinitrotoluene	7.280	165	56474	10.482	ug/ml#	75
54) 1,2-Dinitrobenzene	7.321	168	20149	9.878	ug/ml#	1
64) 3-Nitroaniline	7.433	138	54713	10.435	ug/ml#	89
65) Acenaphthene	7.489	154	184940	10.168	ug/ml	89
66) 2,4-Dinitrophenol	7.532	184	39203	10.653	ug/ml#	80
67) Dibenzofuran	7.656	168	319695	10.123	ug/ml	90
68) 2,4-Dinitrotoluene	7.666	165	76757	10.367	ug/ml	89
69) 4-Nitrophenol	7.625	65	44875	10.311	ug/ml#	85
70) 2,3,5,6-Tetrachlorophenol	7.750	232	77507	10.462	ug/ml	98
71) 2,3,4,6-Tetrachlorophenol	7.790	232	73659	10.222	ug/ml	98
72) Diethyl phthalate	7.930	149	263148	10.196	ug/ml	100
73) Fluorene	7.989	166	251371	10.253	ug/ml	91
74) 4-Chlorophenyl phenyl ...	8.008	204	129013	10.258	ug/ml#	84

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\240618ical\
Data File : ABNL7.D
Acq On : 18 Jun 2024 1:07 pm
Operator : Dakota:cmm
Sample : IL4,32,,ABNL10 Lot# 10780
Misc : WG1938219,,
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 19 20:53:02 2024
Quant Method : I:\8270\Dakota\240618ical\FS240618RVT_14D_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Jun 19 16:29:12 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\240618ical\ABNL6.D
Sub List : ABNical - ABN ical sublist

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
75)	4-Nitroaniline	8.017	138	55093	10.390	ug/ml	#	79
76)	4,6-Dinitro-o-cresol	8.054	198	50867	10.482	ug/ml	#	55
77)	NDPA/DPA	8.126	169	214367	10.230	ug/ml		91
78)	Azobenzene	8.157	77	221108	10.306	ug/ml		97
80)	4-Bromophenyl phenyl e...	8.474	248	83660	10.352	ug/ml	#	78
81)	Hexachlorobenzene	8.524	284	100242	10.143	ug/ml	#	80
82)	Pentachlorophenol	8.716	266	68684	10.488	ug/ml		98
89)	Phenanthrene	8.906	178	412994	10.073	ug/ml		99
90)	Anthracene	8.953	178	416532	10.191	ug/ml		98
91)	Carbazole	9.124	167	400658	10.207	ug/ml		99
92)	Di-n-butylphthalate	9.518	149	472729	10.243	ug/ml	#	98
93)	Fluoranthene	10.050	202	510093	10.097	ug/ml	#	90
94)	Benzidine	10.205	184	321183	10.347	ug/ml	#	93
95)	Pyrene	10.261	202	536335	10.078	ug/ml		99
97)	Butyl benzyl phthalate	10.976	149	224764	10.394	ug/ml		84
105)	Benzo(a)anthracene	11.479	228	545998	10.278	ug/ml		98
106)	3,3'-Dichlorobenzidine	11.483	252	223112	10.448	ug/ml	#	94
107)	Chrysene	11.514	228	507103	10.157	ug/ml		98
108)	Bis(2-ethylhexyl)phtha...	11.610	149	341975	10.367	ug/ml	#	90
109)	Di-n-octylphthalate	12.278	149	595279	10.581	ug/ml	#	71
110)	Benzo(b)fluoranthene	12.570	252	579333	10.161	ug/ml	#	92
111)	Benzo(k)fluoranthene	12.598	252	565294	10.353	ug/ml	#	92
112)	Benzo(a)pyrene	12.878	252	535605	10.250	ug/ml	#	91
114)	Indeno(1,2,3-cd)pyrene	13.882	276	617499	10.403	ug/mL	#	86
115)	Dibenzo(a,h)anthracene	13.907	278	584691	10.380	ug/ml	#	88
116)	Benzo(ghi)perylene	14.096	276	558770	10.381	ug/ml	#	83

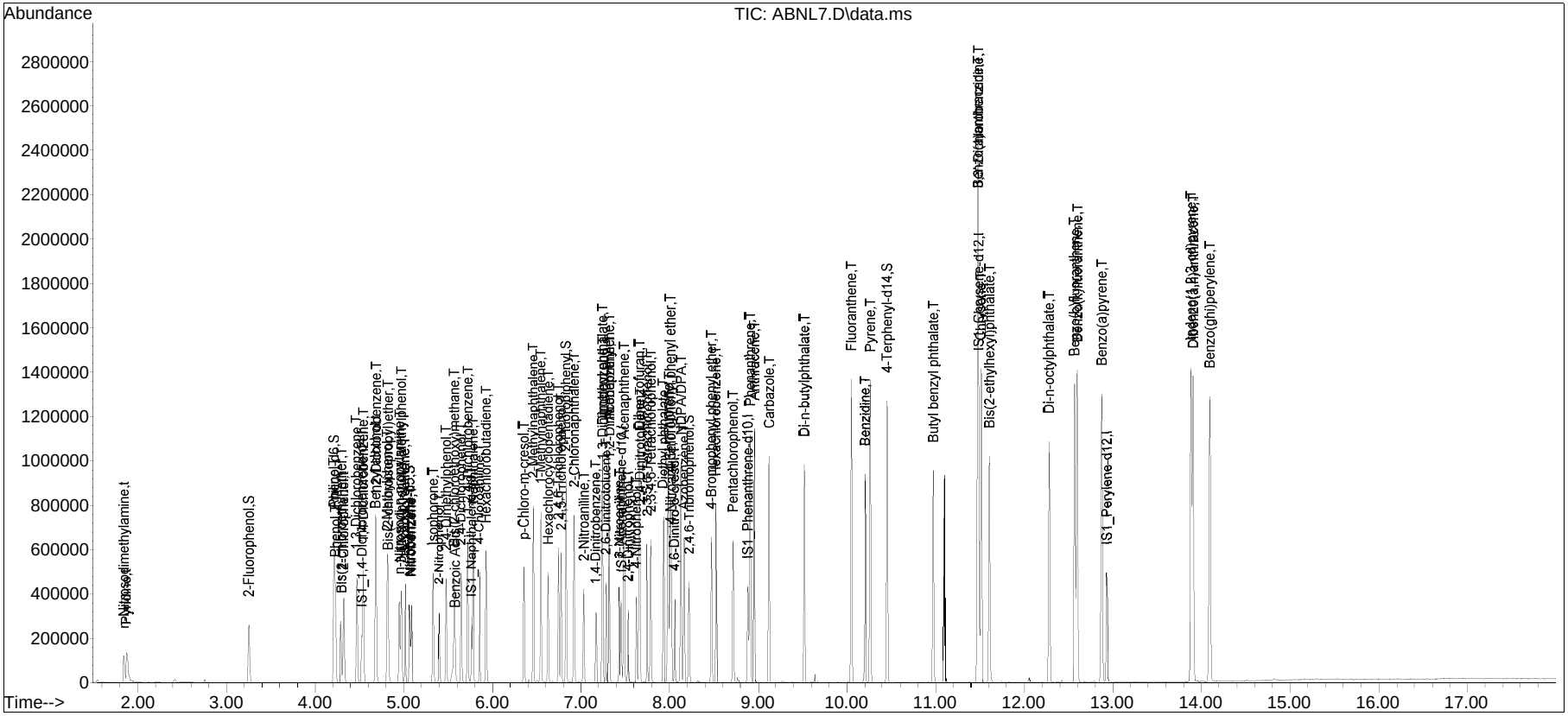
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\240618ical\
Data File : ABNL7.D
Acq On : 18 Jun 2024 1:07 pm
Operator : Dakota:cmm
Sample : IL4,32,,ABNL10 Lot# 10780
Misc : WG1938219,,
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 19 20:53:02 2024
Quant Method : I:\8270\Dakota\240618ical\FS240618RVT_14D_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Jun 19 16:29:12 2024
Response via : Initial Calibration

Sub List : ABNical - ABN ical sublistcal\ABNL6.D•



Manual Integration Report

Data Path	: I:\8270\Dakota\240618ical\	QMethod	: FS240618RVT_14D_Dakota.m
Data File	: ABNL7.D	Operator	: Dakota:cmm
Date Inj'd	: 6/18/2024 1:07 pm	Instrument	: Dakota
Sample	: IL4,32,,ABNL10 Lot# 10780	Quant Date	: 6/19/2024 4:30 pm

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\240618ical\
Data File : ABNL6.D
Acq On : 18 Jun 2024 1:30 pm
Operator : Dakota:cmm
Sample : IL5,32,,ABNL5 Lot# 10781
Misc : WG1938219,,
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 19 20:51:49 2024
Quant Method : I:\8270\Dakota\240618ical\FS240618RVT_14D_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Jun 19 16:29:12 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\240618ical\ABNL6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) IS1_1,4-Dichlorobenzen...	4.526	152	28474	4.000	ug/ml	0.00
Standard Area 1 = 28474			Recovery = 100.00%			
35) IS1_Naphthalene-d8	5.760	136	106396	4.000	ug/ml	0.00
Standard Area 1 = 106396			Recovery = 100.00%			
63) IS1_Acenaphthene-d10	7.457	164	71692	4.000	ug/ml	0.00
Standard Area 1 = 71692			Recovery = 100.00%			
88) IS1_Phenanthrene-d10	8.881	188	164397	4.000	ug/ml	0.00
Standard Area 1 = 164397			Recovery = 100.00%			
104) IS1_Chrysene-d12	11.489	240	172424	4.000	ug/ml	0.00
Standard Area 1 = 172424			Recovery = 100.00%			
113) IS1_Perylene-d12	12.931	264	205352	4.000	ug/ml	0.00
Standard Area 1 = 205352			Recovery = 100.00%			
System Monitoring Compounds						
4) 2-Fluorophenol	3.252	112	35640	4.939	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 246.95%#			
7) Phenol-d6	4.213	99	43141	4.828	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 241.40%#			
19) Nitrobenzene-d5	5.067	82	45167	4.885	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 488.50%#			
46) 2-Fluorobiphenyl	6.830	172	122995	4.953	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 495.30%#			
79) 2,4,6-Tribromophenol	8.219	330	23010	4.757	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 237.85%#			
96) 4-Terphenyl-d14	10.454	244	197249	4.913	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 491.30%#			
Target Compounds						Qvalue
2) n-Nitrosodimethylamine	1.844	74	23288	4.839	ug/ml#	77
3) Pyridine	1.878	79	36908	4.795	ug/ml#	48
5) Aniline	4.209	93	56970	4.881	ug/ml	93
6) 2-Chlorophenol	4.321	128	40643	4.893	ug/ml#	88
8) Phenol	4.225	94	51710	4.822	ug/ml#	87
9) Bis(2-chloroethyl)ether	4.293	93	33703	4.920	ug/ml	93
10) 1,3-Dichlorobenzene	4.467	146	51243	4.914	ug/ml	93
11) 1,4-Dichlorobenzene	4.542	146	51539	4.883	ug/ml	94
12) 1,2-Dichlorobenzene	4.688	146	49020	4.907	ug/ml	92
13) Benzyl alcohol	4.682	79	34649	4.959	ug/ml	96
14) Bis(2-chloroisopropyl)...	4.825	45	49234	4.973	ug/ml#	42

Data Path : I:\8270\Dakota\240618ical\
Data File : ABNL6.D
Acq On : 18 Jun 2024 1:30 pm
Operator : Dakota:cmm
Sample : IL5,32,,ABNL5 Lot# 10781
Misc : WG1938219,,
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 19 20:51:49 2024
Quant Method : I:\8270\Dakota\240618ical\FS240618RVT_14D_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Jun 19 16:29:12 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\240618ical\ABNL6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
15) 2-Methylphenol	4.816	108	36190	5.001	ug/ml	100
16) Hexachloroethane	5.014	117	18415	4.935	ug/ml#	46
17) n-Nitrosodi-n-propylamine	4.952	70	30598	4.861	ug/ml#	86
18) 3-Methylphenol/4-Methy...	4.971	108	37136	4.822	ug/ml	93
20) Nitrobenzene	5.086	77	43749	4.882	ug/ml	94
21) Isophorone	5.328	82	80473	4.951	ug/ml	93
22) 2-Nitrophenol	5.403	139	21564	4.713	ug/ml	92
23) 2,4-Dimethylphenol	5.484	107	37543	4.973	ug/ml	97
24) Bis(2-chloroethoxy)met...	5.568	93	47820	5.027	ug/ml	97
25) 2,4-Dichlorophenol	5.642	162	43847	4.877	ug/ml#	92
26) 1,2,4-Trichlorobenzene	5.717	180	52121	4.978	ug/ml#	96
36) Naphthalene	5.779	128	124542	4.843	ug/ml	99
37) Benzoic Acid	5.558	105	26410	4.629	ug/ml	92
38) 4-Chloroaniline	5.854	65	15950	4.994	ug/ml	85
39) Hexachlorobutadiene	5.934	225	30428	4.769	ug/ml	98
40) p-Chloro-m-cresol	6.351	107	36652	4.863	ug/ml	94
41) 2-Methylnaphthalene	6.457	142	91696	4.879	ug/ml	96
42) 1-Methylnaphthalene	6.550	115	29386	4.796	ug/ml	95
43) Hexachlorocyclopentadiene	6.631	237	35425	4.771	ug/ml	99
44) 2,4,6-Trichlorophenol	6.746	196	36069	4.733	ug/ml	99
45) 2,4,5-Trichlorophenol	6.774	196	40130	4.854	ug/ml	98
47) 2-Chloronaphthalene	6.923	162	102539	4.914	ug/ml#	91
48) 2-Nitroaniline	7.035	138	27429	4.750	ug/ml	84
49) 1,4-Dinitrobenzene	7.165	168	14519	4.821	ug/ml	88
50) 1,3-Dinitrobenzene	7.240	168	16835	4.863	ug/ml#	1
51) Dimethyl phthalate	7.240	163	124987	4.925	ug/ml#	98
52) Acenaphthylene	7.318	152	156520	4.945	ug/ml	100
53) 2,6-Dinitrotoluene	7.280	165	25481	4.759	ug/ml#	78
54) 1,2-Dinitrobenzene	7.318	168	10258	5.061	ug/ml#	1
64) 3-Nitroaniline	7.433	138	25203	4.782	ug/ml#	96
65) Acenaphthene	7.489	154	89879	4.916	ug/ml	91
66) 2,4-Dinitrophenol	7.532	184	17285	4.673	ug/ml#	81
67) Dibenzofuran	7.656	168	156757	4.938	ug/ml#	87
68) 2,4-Dinitrotoluene	7.663	165	35846	4.817	ug/ml	92
69) 4-Nitrophenol	7.625	65	21192	4.844	ug/ml#	84
70) 2,3,5,6-Tetrachlorophenol	7.750	232	35515	4.769	ug/ml	96
71) 2,3,4,6-Tetrachlorophenol	7.790	232	35414	4.889	ug/ml	97
72) Diethyl phthalate	7.927	149	127165	4.902	ug/ml	99
73) Fluorene	7.986	166	120093	4.873	ug/ml	90
74) 4-Chlorophenyl phenyl ...	8.008	204	61579	4.871	ug/ml#	85

Data Path : I:\8270\Dakota\240618ical\
Data File : ABNL6.D
Acq On : 18 Jun 2024 1:30 pm
Operator : Dakota:cmm
Sample : IL5,32,,ABNL5 Lot# 10781
Misc : WG1938219,,
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 19 20:51:49 2024
Quant Method : I:\8270\Dakota\240618ical\FS240618RVT_14D_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Jun 19 16:29:12 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\240618ical\ABNL6.D
Sub List : ABNical - ABN ical sublist

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
75)	4-Nitroaniline	8.014	138	25611	4.805	ug/ml#	79
76)	4,6-Dinitro-o-cresol	8.051	198	23211	4.759	ug/ml#	57
77)	NDPA/DPA	8.123	169	102894	4.885	ug/ml	91
78)	Azobenzene	8.157	77	104525	4.847	ug/ml	96
80)	4-Bromophenyl phenyl e...	8.474	248	39187	4.824	ug/ml#	79
81)	Hexachlorobenzene	8.524	284	48956	4.928	ug/ml#	78
82)	Pentachlorophenol	8.716	266	31306	4.756	ug/ml	97
89)	Phenanthrene	8.903	178	203160	4.963	ug/ml	100
90)	Anthracene	8.952	178	200115	4.904	ug/ml	99
91)	Carbazole	9.123	167	191901	4.897	ug/ml	98
92)	Di-n-butylphthalate	9.518	149	224760	4.878	ug/ml	98
93)	Fluoranthene	10.050	202	249730	4.951	ug/ml#	91
94)	Benzidine	10.205	184	149564	4.826	ug/ml#	94
95)	Pyrene	10.261	202	263584	4.961	ug/ml	99
97)	Butyl benzyl phthalate	10.976	149	103695	4.803	ug/ml	84
105)	Benzo(a)anthracene	11.479	228	263725	4.861	ug/ml	98
106)	3,3'-Dichlorobenzidine	11.482	252	104149	4.776	ug/ml#	95
107)	Chrysene	11.514	228	250932	4.921	ug/ml	98
108)	Bis(2-ethylhexyl)phtha...	11.610	149	162254	4.816	ug/ml#	90
109)	Di-n-octylphthalate	12.278	149	270586	4.710	ug/ml#	71
110)	Benzo(b)fluoranthene	12.567	252	286466	4.920	ug/ml#	92
111)	Benzo(k)fluoranthene	12.595	252	268983	4.824	ug/ml#	91
112)	Benzo(a)pyrene	12.878	252	260163	4.875	ug/ml#	92
114)	Indeno(1,2,3-cd)pyrene	13.882	276	293395	4.799	ug/mL#	85
115)	Dibenzo(a,h)anthracene	13.904	278	279053	4.810	ug/ml#	88
116)	Benzo(ghi)perylene	14.096	276	266674	4.810	ug/ml#	84

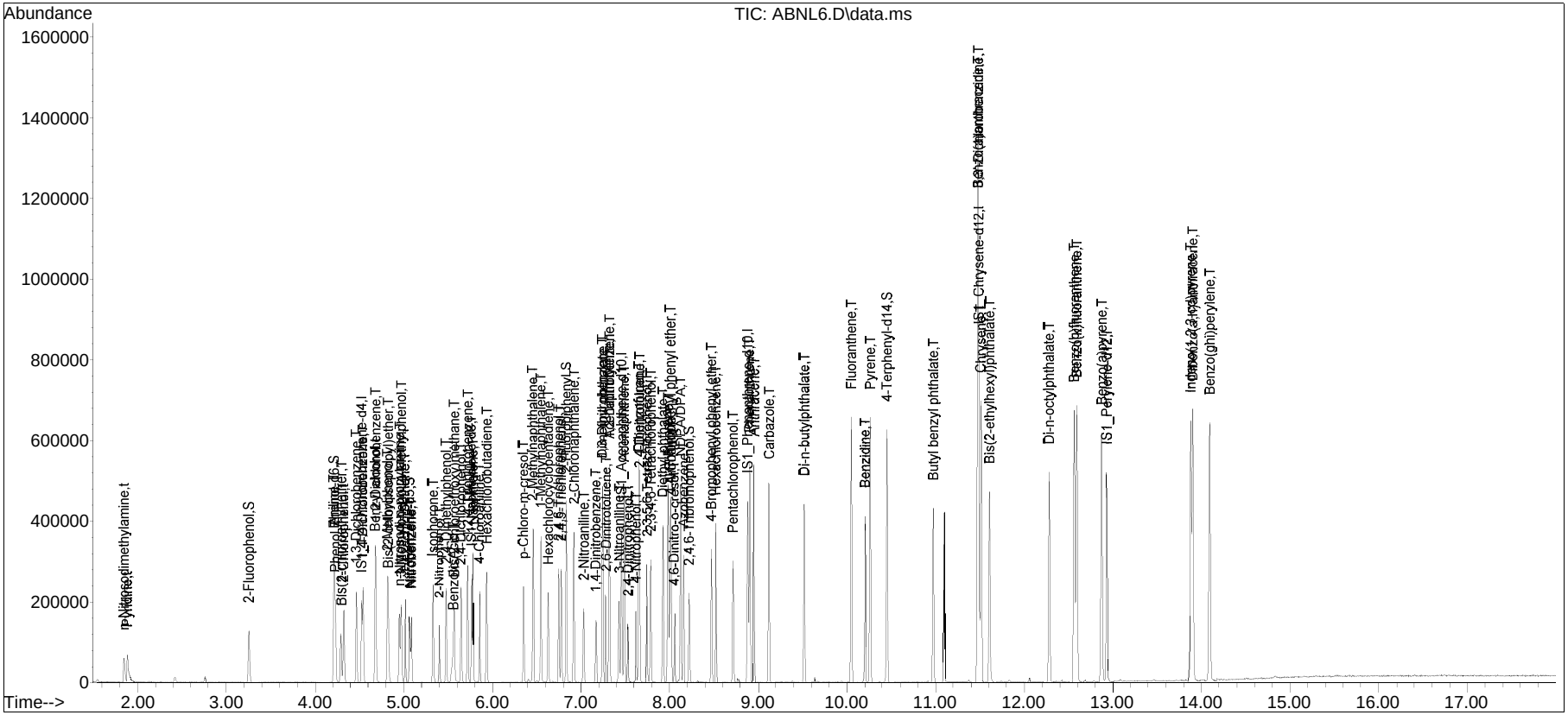
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\240618ical\
Data File : ABNL6.D
Acq On : 18 Jun 2024 1:30 pm
Operator : Dakota:cmm
Sample : IL5,32,,ABNL5 Lot# 10781
Misc : WG1938219,,
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 19 20:51:49 2024
Quant Method : I:\8270\Dakota\240618ical\FS240618RVT_14D_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Jun 19 16:29:12 2024
Response via : Initial Calibration

Sub List : ABNical - ABN ical sublistcal\ABNL6.D•



Manual Integration Report

Data Path	: I:\8270\Dakota\240618ical\	QMethod	: FS240618RVT_14D_Dakota.m
Data File	: ABNL6.D	Operator	: Dakota:cmm
Date Inj'd	: 6/18/2024 1:30 pm	Instrument	: Dakota
Sample	: IL5,32,,ABNL5 Lot# 10781	Quant Date	: 6/19/2024 4:30 pm

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\240618ical\
Data File : ABNL5.D
Acq On : 18 Jun 2024 1:52 pm
Operator : Dakota:cmm
Sample : IL6,32,,ABNL2.5 Lot# 10782
Misc : WG1938219,,
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 19 20:50:39 2024
Quant Method : I:\8270\Dakota\240618ical\FS240618RVT_14D_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Jun 19 16:29:12 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\240618ical\ABNL6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) IS1_1,4-Dichlorobenzen...	4.527	152	30688	4.000	ug/ml	0.00
Standard Area 1 = 28474			Recovery = 107.78%			
35) IS1_Naphthalene-d8	5.760	136	111213	4.000	ug/ml	0.00
Standard Area 1 = 106396			Recovery = 104.53%			
63) IS1_Acenaphthene-d10	7.457	164	75234	4.000	ug/ml	0.00
Standard Area 1 = 71692			Recovery = 104.94%			
88) IS1_Phenanthrene-d10	8.881	188	172450	4.000	ug/ml	0.00
Standard Area 1 = 164397			Recovery = 104.90%			
104) IS1_Chrysene-d12	11.486	240	176714	4.000	ug/ml	0.00
Standard Area 1 = 172424			Recovery = 102.49%			
113) IS1_Perylene-d12	12.934	264	212733	4.000	ug/ml	0.00
Standard Area 1 = 205352			Recovery = 103.59%			
System Monitoring Compounds						
4) 2-Fluorophenol	3.252	112	17955	2.309	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 115.45%#			
7) Phenol-d6	4.213	99	23347	2.424	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 121.20%#			
19) Nitrobenzene-d5	5.067	82	24122	2.421	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 242.10%#			
46) 2-Fluorobiphenyl	6.830	172	64089	2.469	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 246.90%#			
79) 2,4,6-Tribromophenol	8.219	330	12043	2.373	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 118.65%#			
96) 4-Terphenyl-d14	10.454	244	103544	2.459	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 245.90%#			
Target Compounds						Qvalue
2) n-Nitrosodimethylamine	1.847	74	12333	2.378	ug/ml#	76
3) Pyridine	1.888	79	21253	2.562	ug/ml#	45
5) Aniline	4.210	93	29570	2.351	ug/ml	93
6) 2-Chlorophenol	4.321	128	20748	2.317	ug/ml#	90
8) Phenol	4.225	94	27278	2.360	ug/ml#	86
9) Bis(2-chloroethyl)ether	4.297	93	17518	2.373	ug/ml	94
10) 1,3-Dichlorobenzene	4.471	146	26947	2.398	ug/ml	94
11) 1,4-Dichlorobenzene	4.542	146	27608	2.427	ug/ml	96
12) 1,2-Dichlorobenzene	4.691	146	26367	2.449	ug/ml	95
13) Benzyl alcohol	4.682	79	17879	2.374	ug/ml	96
14) Bis(2-chloroisopropyl)...	4.825	45	26146	2.451	ug/ml#	44

Data Path : I:\8270\Dakota\240618ical\
Data File : ABNL5.D
Acq On : 18 Jun 2024 1:52 pm
Operator : Dakota:cmm
Sample : IL6,32,,ABNL2.5 Lot# 10782
Misc : WG1938219,,
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 19 20:50:39 2024
Quant Method : I:\8270\Dakota\240618ical\FS240618RVT_14D_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Jun 19 16:29:12 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\240618ical\ABNL6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
15) 2-Methylphenol	4.816	108	17743	2.275	ug/ml	94
16) Hexachloroethane	5.015	117	9868	2.454	ug/ml#	44
17) n-Nitrosodi-n-propylamine	4.952	70	15864	2.338	ug/ml#	88
18) 3-Methylphenol/4-Methy...	4.971	108	19624	2.364	ug/ml	96
20) Nitrobenzene	5.089	77	22503	2.330	ug/ml	97
21) Isophorone	5.328	82	40829	2.331	ug/ml#	93
22) 2-Nitrophenol	5.400	139	11347	2.301	ug/ml#	89
23) 2,4-Dimethylphenol	5.481	107	19853	2.440	ug/ml	95
24) Bis(2-chloroethoxy)met...	5.568	93	25100	2.448	ug/ml#	96
25) 2,4-Dichlorophenol	5.639	162	22732	2.346	ug/ml#	91
26) 1,2,4-Trichlorobenzene	5.717	180	26824	2.377	ug/ml#	92
36) Naphthalene	5.779	128	66893	2.488	ug/ml	99
37) Benzoic Acid	5.546	105	12105	2.030	ug/ml	93
38) 4-Chloroaniline	5.854	65	7794	2.335	ug/ml	74
39) Hexachlorobutadiene	5.934	225	16120	2.417	ug/ml	98
40) p-Chloro-m-cresol	6.351	107	18379	2.333	ug/ml	89
41) 2-Methylnaphthalene	6.457	142	47385	2.412	ug/ml	95
42) 1-Methylnaphthalene	6.550	115	14959	2.336	ug/ml	91
43) Hexachlorocyclopentadiene	6.631	237	18855	2.429	ug/ml	97
44) 2,4,6-Trichlorophenol	6.746	196	18938	2.377	ug/ml	98
45) 2,4,5-Trichlorophenol	6.774	196	20577	2.381	ug/ml	99
47) 2-Chloronaphthalene	6.923	162	53356	2.446	ug/ml#	90
48) 2-Nitroaniline	7.032	138	13372	2.216	ug/ml	88
49) 1,4-Dinitrobenzene	7.165	168	7070	2.246	ug/ml	92
50) 1,3-Dinitrobenzene	7.237	168	8109	2.241	ug/ml#	1
51) Dimethyl phthalate	7.237	163	65002	2.450	ug/ml#	98
52) Acenaphthylene	7.314	152	81340	2.458	ug/ml	99
53) 2,6-Dinitrotoluene	7.277	165	13064	2.334	ug/ml#	79
54) 1,2-Dinitrobenzene	7.318	168	4977	2.349	ug/ml#	1
64) 3-Nitroaniline	7.430	138	13126	2.373	ug/ml#	91
65) Acenaphthene	7.489	154	46508	2.424	ug/ml	88
66) 2,4-Dinitrophenol	7.532	184	8362	2.154	ug/ml#	80
67) Dibenzofuran	7.656	168	81429	2.445	ug/ml	90
68) 2,4-Dinitrotoluene	7.663	165	18354	2.350	ug/ml	94
69) 4-Nitrophenol	7.625	65	11034	2.404	ug/ml#	87
70) 2,3,5,6-Tetrachlorophenol	7.750	232	18611	2.382	ug/ml	98
71) 2,3,4,6-Tetrachlorophenol	7.790	232	18212	2.396	ug/ml	97
72) Diethyl phthalate	7.924	149	66668	2.449	ug/ml	98
73) Fluorene	7.986	166	63564	2.458	ug/ml	92
74) 4-Chlorophenyl phenyl ...	8.008	204	32983	2.486	ug/ml#	84

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\240618ical\
Data File : ABNL5.D
Acq On : 18 Jun 2024 1:52 pm
Operator : Dakota:cmm
Sample : IL6,32,,ABNL2.5 Lot# 10782
Misc : WG1938219,,
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 19 20:50:39 2024
Quant Method : I:\8270\Dakota\240618ical\FS240618RVT_14D_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Jun 19 16:29:12 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\240618ical\ABNL6.D
Sub List : ABNical - ABN ical sublist

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
75)	4-Nitroaniline	8.014	138	13211	2.362	ug/ml#	81
76)	4,6-Dinitro-o-cresol	8.051	198	11065	2.162	ug/ml#	58
77)	NDPA/DPA	8.123	169	53917	2.439	ug/ml	91
78)	Azobenzene	8.157	77	55164	2.438	ug/ml	97
80)	4-Bromophenyl phenyl e...	8.474	248	21360	2.506	ug/ml#	79
81)	Hexachlorobenzene	8.524	284	24767	2.376	ug/ml#	83
82)	Pentachlorophenol	8.716	266	15144	2.192	ug/ml	98
89)	Phenanthrene	8.903	178	105533	2.458	ug/ml	99
90)	Anthracene	8.952	178	107094	2.502	ug/ml	99
91)	Carbazole	9.120	167	99837	2.429	ug/ml	99
92)	Di-n-butylphthalate	9.518	149	114128	2.361	ug/ml#	98
93)	Fluoranthene	10.050	202	128627	2.431	ug/ml#	90
94)	Benzidine	10.205	184	74668	2.297	ug/ml#	93
95)	Pyrene	10.261	202	135398	2.429	ug/ml	100
97)	Butyl benzyl phthalate	10.976	149	50563	2.233	ug/ml	85
105)	Benzo(a)anthracene	11.476	228	136182	2.449	ug/ml	99
106)	3,3'-Dichlorobenzidine	11.482	252	52187	2.335	ug/ml#	96
107)	Chrysene	11.510	228	131266	2.512	ug/ml	98
108)	Bis(2-ethylhexyl)phtha...	11.610	149	78447	2.272	ug/ml#	89
109)	Di-n-octylphthalate	12.278	149	132401	2.248	ug/ml#	71
110)	Benzo(b)fluoranthene	12.567	252	143080	2.398	ug/ml#	93
111)	Benzo(k)fluoranthene	12.592	252	147241	2.576	ug/ml#	92
112)	Benzo(a)pyrene	12.875	252	130216	2.381	ug/ml#	92
114)	Indeno(1,2,3-cd)pyrene	13.879	276	148462	2.344	ug/mL#	86
115)	Dibenzo(a,h)anthracene	13.904	278	141577	2.356	ug/ml#	88
116)	Benzo(ghi)perylene	14.096	276	139364	2.426	ug/ml#	83

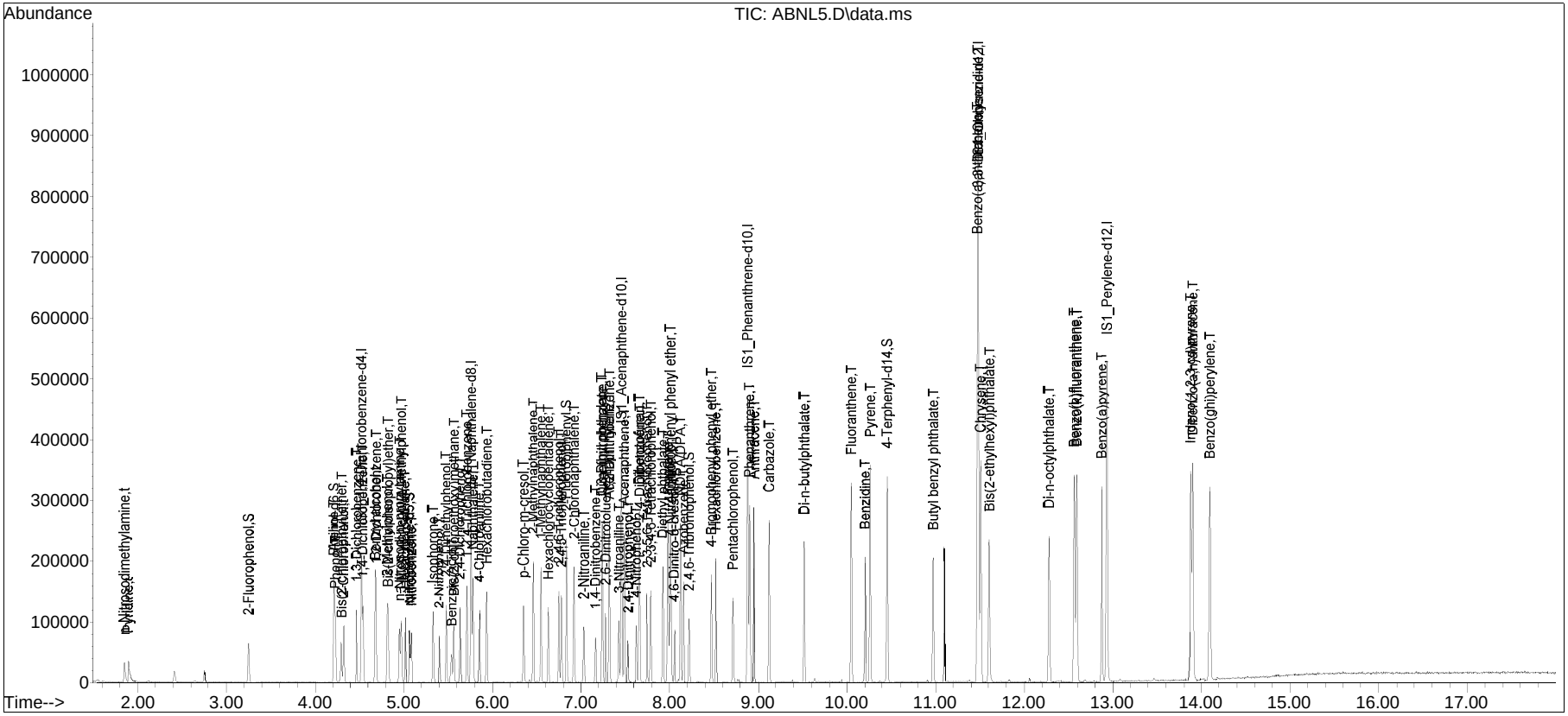
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\240618ical\
Data File : ABNL5.D
Acq On : 18 Jun 2024 1:52 pm
Operator : Dakota:cmm
Sample : IL6,32,,ABNL2.5 Lot# 10782
Misc : WG1938219,,
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 19 20:50:39 2024
Quant Method : I:\8270\Dakota\240618ical\FS240618RVT_14D_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Jun 19 16:29:12 2024
Response via : Initial Calibration

Sub List : ABNical - ABN ical sublistcal\ABNL6.D•



Manual Integration Report

Data Path	: I:\8270\Dakota\240618ical\	QMethod	: FS240618RVT_14D_Dakota.m
Data File	: ABNL5.D	Operator	: Dakota:cmm
Date Inj'd	: 6/18/2024 1:52 pm	Instrument	: Dakota
Sample	: IL6,32,,ABNL2.5 Lot# 10782	Quant Date	: 6/19/2024 4:30 pm

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\240618ical\
Data File : ABNL4.D
Acq On : 18 Jun 2024 2:15 pm
Operator : Dakota:cmm
Sample : IL7,32,,ABNL1 Lot# 10783
Misc : WG1938219,,
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 19 20:48:00 2024
Quant Method : I:\8270\Dakota\240618ical\FS240618RVT_14D_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Jun 19 16:29:12 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\240618ical\ABNL6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) IS1_1,4-Dichlorobenzen...	4.527	152	29988	4.000	ug/ml	0.00
Standard Area 1 = 28474			Recovery = 105.32%			
35) IS1_Naphthalene-d8	5.761	136	109054	4.000	ug/ml	0.00
Standard Area 1 = 106396			Recovery = 102.50%			
63) IS1_Acenaphthene-d10	7.458	164	73193	4.000	ug/ml	0.00
Standard Area 1 = 71692			Recovery = 102.09%			
88) IS1_Phenanthrene-d10	8.881	188	174341	4.000	ug/ml	0.00
Standard Area 1 = 164397			Recovery = 106.05%			
104) IS1_Chrysene-d12	11.486	240	183285	4.000	ug/ml	0.00
Standard Area 1 = 172424			Recovery = 106.30%			
113) IS1_Perylene-d12	12.931	264	215179	4.000	ug/ml	0.00
Standard Area 1 = 205352			Recovery = 104.79%			
System Monitoring Compounds						
4) 2-Fluorophenol	3.249	112	7548	0.993	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 49.65%			
7) Phenol-d6	4.213	99	9857	1.047	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 52.35%			
19) Nitrobenzene-d5	5.071	82	9438	0.969	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 96.90%			
46) 2-Fluorobiphenyl	6.830	172	26621	1.046	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 104.60%			
79) 2,4,6-Tribromophenol	8.219	330	5104	1.034	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 51.70%			
96) 4-Terphenyl-d14	10.454	244	44776	1.052	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 105.20%			
Target Compounds						Qvalue
2) n-Nitrosodimethylamine	1.847	74	4939	0.974	ug/ml#	72
3) Pyridine	1.897	79	8260	1.019	ug/ml#	44
5) Aniline	4.210	93	11715	0.953	ug/ml#	87
6) 2-Chlorophenol	4.322	128	8619	0.985	ug/ml#	89
8) Phenol	4.225	94	11072	0.980	ug/ml#	59
9) Bis(2-chloroethyl)ether	4.297	93	7415	1.028	ug/ml	95
10) 1,3-Dichlorobenzene	4.468	146	11123	1.013	ug/ml	93
11) 1,4-Dichlorobenzene	4.542	146	10810	0.972	ug/ml	91
12) 1,2-Dichlorobenzene	4.688	146	10436	0.992	ug/ml	95
13) Benzyl alcohol	4.685	79	7245	0.985	ug/ml	99
14) Bis(2-chloroisopropyl)...	4.825	45	10637	1.020	ug/ml#	41

Data Path : I:\8270\Dakota\240618ical\
Data File : ABNL4.D
Acq On : 18 Jun 2024 2:15 pm
Operator : Dakota:cmm
Sample : IL7,32,,ABNL1 Lot# 10783
Misc : WG1938219,,
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 19 20:48:00 2024
Quant Method : I:\8270\Dakota\240618ical\FS240618RVT_14D_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Jun 19 16:29:12 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\240618ical\ABNL6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
15) 2-Methylphenol	4.816	108	7219	0.947	ug/ml	97
16) Hexachloroethane	5.015	117	4236	1.078	ug/ml#	57
17) n-Nitrosodi-n-propylamine	4.952	70	6748	1.018	ug/ml#	78
18) 3-Methylphenol/4-Methy...	4.974	108	7817	0.964	ug/ml	98
20) Nitrobenzene	5.089	77	9463	1.003	ug/ml	95
21) Isophorone	5.332	82	16531	0.966	ug/ml#	92
22) 2-Nitrophenol	5.403	139	4667	0.968	ug/ml#	87
23) 2,4-Dimethylphenol	5.481	107	7790	0.980	ug/ml	99
24) Bis(2-chloroethoxy)met...	5.568	93	10406	1.039	ug/ml#	95
25) 2,4-Dichlorophenol	5.639	162	8659	0.914	ug/ml#	87
26) 1,2,4-Trichlorobenzene	5.717	180	11370	1.031	ug/ml#	95
36) Naphthalene	5.779	128	27079	1.027	ug/ml	98
37) Benzoic Acid	5.537	105	3676	0.629	ug/ml	94
38) 4-Chloroaniline	5.854	65	3111	0.950	ug/ml#	70
39) Hexachlorobutadiene	5.935	225	6588	1.007	ug/ml	99
40) p-Chloro-m-cresol	6.351	107	7467	0.967	ug/ml	93
41) 2-Methylnaphthalene	6.457	142	19623	1.019	ug/ml	97
42) 1-Methylnaphthalene	6.550	115	6486	1.033	ug/ml	94
43) Hexachlorocyclopentadiene	6.631	237	7630	1.003	ug/ml	98
44) 2,4,6-Trichlorophenol	6.746	196	7347	0.941	ug/ml	94
45) 2,4,5-Trichlorophenol	6.777	196	8905	1.051	ug/ml	93
47) 2-Chloronaphthalene	6.923	162	22275	1.041	ug/ml#	91
48) 2-Nitroaniline	7.035	138	6119	1.034	ug/ml#	78
49) 1,4-Dinitrobenzene	7.165	168	2912	0.943	ug/ml	82
50) 1,3-Dinitrobenzene	7.240	168	3298	0.930	ug/ml#	1
51) Dimethyl phthalate	7.237	163	26868	1.033	ug/ml#	97
52) Acenaphthylene	7.315	152	33719	1.039	ug/ml	98
53) 2,6-Dinitrotoluene	7.277	165	5074	0.925	ug/ml#	82
54) 1,2-Dinitrobenzene	7.321	168	1969	0.948	ug/ml#	1
64) 3-Nitroaniline	7.430	138	4969	0.924	ug/ml#	96
65) Acenaphthene	7.489	154	19685	1.055	ug/ml	88
66) 2,4-Dinitrophenol	7.532	184	2917	0.772	ug/ml#	88
67) Dibenzofuran	7.657	168	34912	1.077	ug/ml	89
68) 2,4-Dinitrotoluene	7.663	165	7239	0.953	ug/ml	97
69) 4-Nitrophenol	7.625	65	4240	0.949	ug/ml#	82
70) 2,3,5,6-Tetrachlorophenol	7.750	232	7226	0.950	ug/ml	98
71) 2,3,4,6-Tetrachlorophenol	7.790	232	7285	0.985	ug/ml	96
72) Diethyl phthalate	7.927	149	27048	1.021	ug/ml	98
73) Fluorene	7.986	166	25929	1.031	ug/ml	89
74) 4-Chlorophenyl phenyl ...	8.008	204	13884	1.076	ug/ml#	85

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\240618ical\
Data File : ABNL4.D
Acq On : 18 Jun 2024 2:15 pm
Operator : Dakota:cmm
Sample : IL7,32,,ABNL1 Lot# 10783
Misc : WG1938219,,
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 19 20:48:00 2024
Quant Method : I:\8270\Dakota\240618ical\FS240618RVT_14D_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Jun 19 16:29:12 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\240618ical\ABNL6.D
Sub List : ABNical - ABN ical sublist

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
75)	4-Nitroaniline	8.014	138	5428	0.998	ug/ml#	82
76)	4,6-Dinitro-o-cresol	8.048	198	4091	0.822	ug/ml#	59
77)	NDPA/DPA	8.123	169	23132	1.076	ug/ml	95
78)	Azobenzene	8.157	77	23510	1.068	ug/ml	93
80)	4-Bromophenyl phenyl e...	8.474	248	9032	1.089	ug/ml#	79
81)	Hexachlorobenzene	8.524	284	10977	1.082	ug/ml#	78
82)	Pentachlorophenol	8.716	266	6320	0.940	ug/ml	96
89)	Phenanthrene	8.903	178	45355	1.045	ug/ml	100
90)	Anthracene	8.953	178	44079	1.019	ug/ml	99
91)	Carbazole	9.120	167	41945	1.009	ug/ml	99
92)	Di-n-butylphthalate	9.518	149	46396	0.950	ug/ml	99
93)	Fluoranthene	10.050	202	56245	1.052	ug/ml#	91
94)	Benzidine	10.202	184	31116	0.947	ug/ml#	93
95)	Pyrene	10.261	202	61219	1.087	ug/ml	99
97)	Butyl benzyl phthalate	10.976	149	20056	0.876	ug/ml#	84
105)	Benzo(a)anthracene	11.476	228	58560	1.015	ug/ml	98
106)	3,3'-Dichlorobenzidine	11.479	252	20942	0.903	ug/ml#	96
107)	Chrysene	11.511	228	58626	1.082	ug/ml	98
108)	Bis(2-ethylhexyl)phtha...	11.610	149	31465	0.879	ug/ml#	88
109)	Di-n-octylphthalate	12.278	149	49523	0.811	ug/ml#	72
110)	Benzo(b)fluoranthene	12.567	252	61725	0.997	ug/ml#	93
111)	Benzo(k)fluoranthene	12.592	252	62143	1.048	ug/ml#	94
112)	Benzo(a)pyrene	12.875	252	54920	0.968	ug/ml#	93
114)	Indeno(1,2,3-cd)pyrene	13.876	276	62167	0.970	ug/mL#	85
115)	Dibenzo(a,h)anthracene	13.901	278	61181	1.006	ug/ml#	89
116)	Benzo(ghi)perylene	14.093	276	60142	1.035	ug/ml#	84

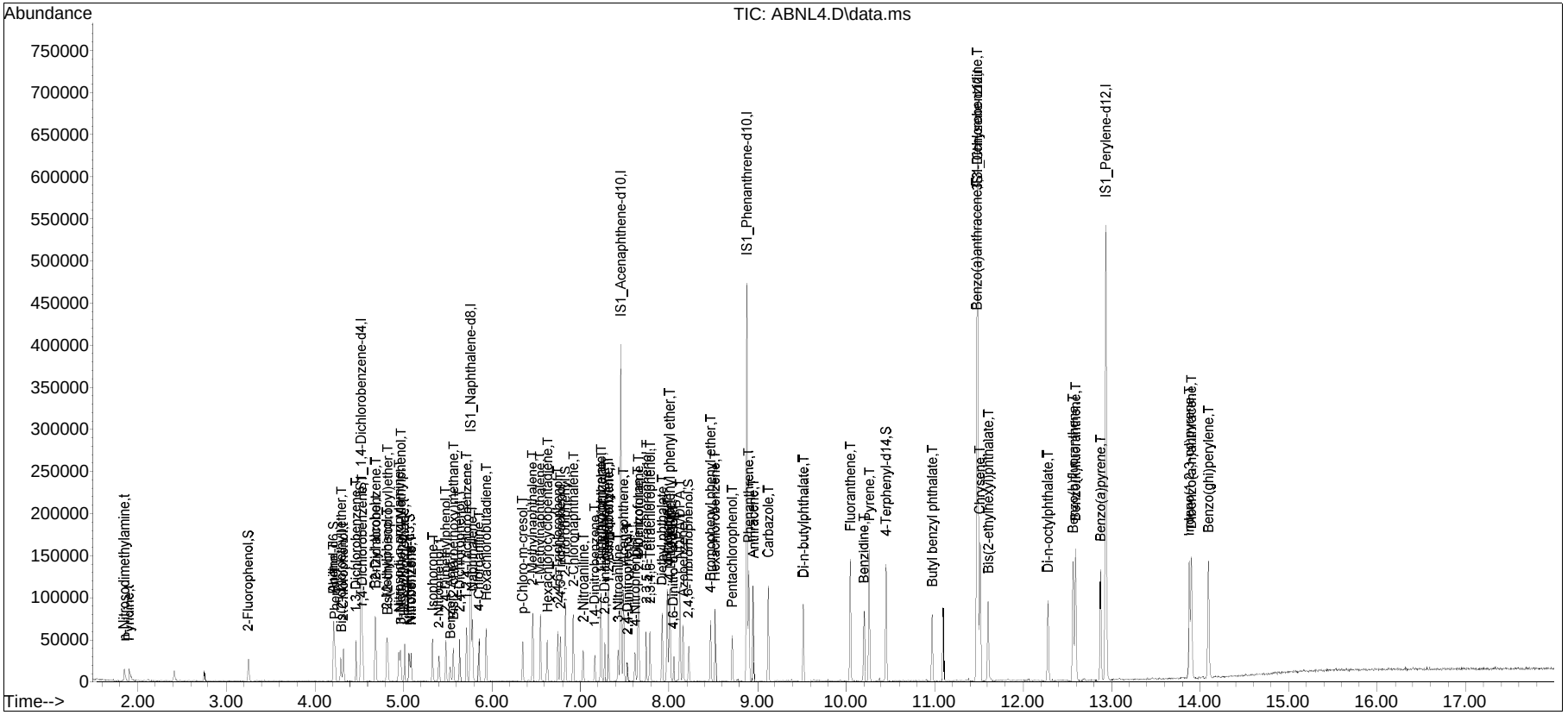
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\240618ical\
Data File : ABNL4.D
Acq On : 18 Jun 2024 2:15 pm
Operator : Dakota:cmm
Sample : IL7,32,,ABNL1 Lot# 10783
Misc : WG1938219,,
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 19 20:48:00 2024
Quant Method : I:\8270\Dakota\240618ical\FS240618RVT_14D_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Jun 19 16:29:12 2024
Response via : Initial Calibration

Sub List : ABNical - ABN ical sublistcal\ABNL6.D•



Manual Integration Report

Data Path	: I:\8270\Dakota\240618ical\	QMethod	: FS240618RVT_14D_Dakota.m
Data File	: ABNL4.D	Operator	: Dakota:cmm
Date Inj'd	: 6/18/2024 2:15 pm	Instrument	: Dakota
Sample	: IL7,32,,ABNL1 Lot# 10783	Quant Date	: 6/19/2024 4:30 pm

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\240618ical\
Data File : ABNL3.D
Acq On : 18 Jun 2024 2:38 pm
Operator : Dakota:cmm
Sample : IL8,32,,ABNL0.5 Lot# 10784
Misc : WG1938219,,
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jun 19 20:47:07 2024
Quant Method : I:\8270\Dakota\240618ical\FS240618RVT_14D_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Jun 19 16:29:12 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\240618ical\ABNL6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) IS1_1,4-Dichlorobenzen...	4.527	152	30767	4.000 ug/ml	0.00
Standard Area 1 = 28474			Recovery = 108.05%		
35) IS1_Naphthalene-d8	5.760	136	106830	4.000 ug/ml #	0.00
Standard Area 1 = 106396			Recovery = 100.41%		
63) IS1_Acenaphthene-d10	7.457	164	73911	4.000 ug/ml	0.00
Standard Area 1 = 71692			Recovery = 103.10%		
88) IS1_Phenanthrene-d10	8.881	188	169060	4.000 ug/ml	0.00
Standard Area 1 = 164397			Recovery = 102.84%		
104) IS1_Chrysene-d12	11.486	240	173682	4.000 ug/ml #	0.00
Standard Area 1 = 172424			Recovery = 100.73%		
113) IS1_Perylene-d12	12.934	264	207926	4.000 ug/ml	0.00
Standard Area 1 = 205352			Recovery = 101.25%		
System Monitoring Compounds					
4) 2-Fluorophenol	3.255	112	3674	0.471 ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 23.55%		
7) Phenol-d6	4.216	99	4978	0.516 ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 25.80%		
19) Nitrobenzene-d5	5.070	82	5196	0.520 ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 52.00%		
46) 2-Fluorobiphenyl	6.830	172	14125	0.567 ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 56.70%		
79) 2,4,6-Tribromophenol	8.219	330	2505	0.502 ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 25.10%		
96) 4-Terphenyl-d14	10.454	244	22804	0.552 ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 55.20%		
Target Compounds					Qvalue
2) n-Nitrosodimethylamine	1.860	74	2731	0.525 ug/ml#	71
3) Pyridine	1.925	79	4508M1	0.542 ug/ml	
5) Aniline	4.210	93	6453	0.512 ug/ml#	59
6) 2-Chlorophenol	4.325	128	4142	0.461 ug/ml#	84
8) Phenol	4.225	94	5819	0.502 ug/ml#	62
9) Bis(2-chloroethyl)ether	4.297	93	3897	0.527 ug/ml	95
10) 1,3-Dichlorobenzene	4.471	146	5880	0.522 ug/ml	90
11) 1,4-Dichlorobenzene	4.542	146	6135	0.538 ug/ml	91
12) 1,2-Dichlorobenzene	4.688	146	5951	0.551 ug/ml	96
13) Benzyl alcohol	4.688	79	3901	0.517 ug/ml	94
14) Bis(2-chloroisopropyl)...	4.825	45	5808	0.543 ug/ml#	48

Data Path : I:\8270\Dakota\240618ical\
Data File : ABNL3.D
Acq On : 18 Jun 2024 2:38 pm
Operator : Dakota:cmm
Sample : IL8,32,,ABNL0.5 Lot# 10784
Misc : WG1938219,,
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jun 19 20:47:07 2024
Quant Method : I:\8270\Dakota\240618ical\FS240618RVT_14D_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Jun 19 16:29:12 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\240618ical\ABNL6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
15) 2-Methylphenol	4.816	108	3777	0.483	ug/ml	97
16) Hexachloroethane	5.018	117	1951	0.484	ug/ml#	26
17) n-Nitrosodi-n-propylamine	4.955	70	3473	0.511	ug/ml#	81
18) 3-Methylphenol/4-Methy...	4.971	108	3877	0.466	ug/ml#	91
20) Nitrobenzene	5.089	77	5066	0.523	ug/ml	91
21) Isophorone	5.332	82	9046	0.515	ug/ml	94
22) 2-Nitrophenol	5.400	139	2765	0.559	ug/ml#	79
23) 2,4-Dimethylphenol	5.484	107	4358	0.534	ug/ml	98
24) Bis(2-chloroethoxy)met...	5.571	93	5433	0.529	ug/ml#	87
25) 2,4-Dichlorophenol	5.642	162	4700	0.484	ug/ml#	89
26) 1,2,4-Trichlorobenzene	5.717	180	6326	0.559	ug/ml	92
36) Naphthalene	5.779	128	14330	0.555	ug/ml	97
37) Benzoic Acid	5.530	105	1645	0.287	ug/ml	94
38) 4-Chloroaniline	5.854	65	1717	0.535	ug/ml	79
39) Hexachlorobutadiene	5.931	225	3465	0.541	ug/ml	98
40) p-Chloro-m-cresol	6.351	107	4302	0.569	ug/ml	97
41) 2-Methylnaphthalene	6.457	142	10329	0.547	ug/ml	97
42) 1-Methylnaphthalene	6.547	115	3370	0.548	ug/ml	93
43) Hexachlorocyclopentadiene	6.631	237	4069	0.546	ug/ml	96
44) 2,4,6-Trichlorophenol	6.746	196	4115	0.538	ug/ml	94
45) 2,4,5-Trichlorophenol	6.777	196	4102	0.494	ug/ml	92
47) 2-Chloronaphthalene	6.923	162	11429	0.545	ug/ml	93
48) 2-Nitroaniline	7.038	138	2862	0.494	ug/ml	86
49) 1,4-Dinitrobenzene	7.168	168	1797M3	0.594	ug/ml	
50) 1,3-Dinitrobenzene	7.240	168	1561	0.449	ug/ml#	1
51) Dimethyl phthalate	7.237	163	14153	0.555	ug/ml#	95
52) Acenaphthylene	7.318	152	17610	0.554	ug/ml	96
53) 2,6-Dinitrotoluene	7.277	165	2698	0.502	ug/ml#	75
54) 1,2-Dinitrobenzene	7.315	168	933	0.458	ug/ml#	1
64) 3-Nitroaniline	7.433	138	2552	0.470	ug/ml#	85
65) Acenaphthene	7.489	154	10176	0.540	ug/ml	83
66) 2,4-Dinitrophenol	7.532	184	1204	0.316	ug/ml#	88
67) Dibenzofuran	7.656	168	18554	0.567	ug/ml	89
68) 2,4-Dinitrotoluene	7.663	165	3353	0.437	ug/ml	95
69) 4-Nitrophenol	7.625	65	2326	0.516	ug/ml	92
70) 2,3,5,6-Tetrachlorophenol	7.750	232	3637	0.474	ug/ml	93
71) 2,3,4,6-Tetrachlorophenol	7.790	232	3849	0.515	ug/ml	93
72) Diethyl phthalate	7.927	149	14101	0.527	ug/ml	99
73) Fluorene	7.986	166	13389	0.527	ug/ml	89
74) 4-Chlorophenyl phenyl ...	8.008	204	6991	0.536	ug/ml#	85

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\240618ical\
Data File : ABNL3.D
Acq On : 18 Jun 2024 2:38 pm
Operator : Dakota:cmm
Sample : IL8,32,,ABNL0.5 Lot# 10784
Misc : WG1938219,,
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jun 19 20:47:07 2024
Quant Method : I:\8270\Dakota\240618ical\FS240618RVT_14D_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Jun 19 16:29:12 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\240618ical\ABNL6.D
Sub List : ABNical - ABN ical sublist

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
75)	4-Nitroaniline	8.014	138	2683	0.488	ug/ml#	81
76)	4,6-Dinitro-o-cresol	8.054	198	1896	0.377	ug/ml#	65
77)	NDPA/DPA	8.123	169	11149	0.513	ug/ml	88
78)	Azobenzene	8.157	77	11915	0.536	ug/ml	96
80)	4-Bromophenyl phenyl e...	8.474	248	4345	0.519	ug/ml#	81
81)	Hexachlorobenzene	8.524	284	6124	0.598	ug/ml#	79
82)	Pentachlorophenol	8.716	266	2851	0.420	ug/ml	97
89)	Phenanthrene	8.903	178	24157	0.574	ug/ml	98
90)	Anthracene	8.952	178	23974	0.571	ug/ml	98
91)	Carbazole	9.120	167	21595	0.536	ug/ml	98
92)	Di-n-butylphthalate	9.515	149	24054	0.508	ug/ml#	98
93)	Fluoranthene	10.050	202	29198	0.563	ug/ml#	90
94)	Benzidine	10.205	184	15100	0.474	ug/ml#	93
95)	Pyrene	10.261	202	29549	0.541	ug/ml	99
97)	Butyl benzyl phthalate	10.976	149	10030	0.452	ug/ml	89
105)	Benzo(a)anthracene	11.476	228	29221	0.535	ug/ml	96
106)	3,3'-Dichlorobenzidine	11.479	252	9808	0.446	ug/ml#	97
107)	Chrysene	11.510	228	30922	0.602	ug/ml	96
108)	Bis(2-ethylhexyl)phtha...	11.610	149	15106	0.445	ug/ml#	89
109)	Di-n-octylphthalate	12.278	149	23438	0.405	ug/ml#	73
110)	Benzo(b)fluoranthene	12.564	252	31213	0.532	ug/ml#	92
111)	Benzo(k)fluoranthene	12.592	252	30350	0.540	ug/ml#	92
112)	Benzo(a)pyrene	12.875	252	27147	0.505	ug/ml#	93
114)	Indeno(1,2,3-cd)pyrene	13.879	276	32494M6	0.525	ug/mL	
115)	Dibenzo(a,h)anthracene	13.901	278	28981	0.493	ug/ml#	89
116)	Benzo(ghi)perylene	14.093	276	28997	0.517	ug/ml#	83

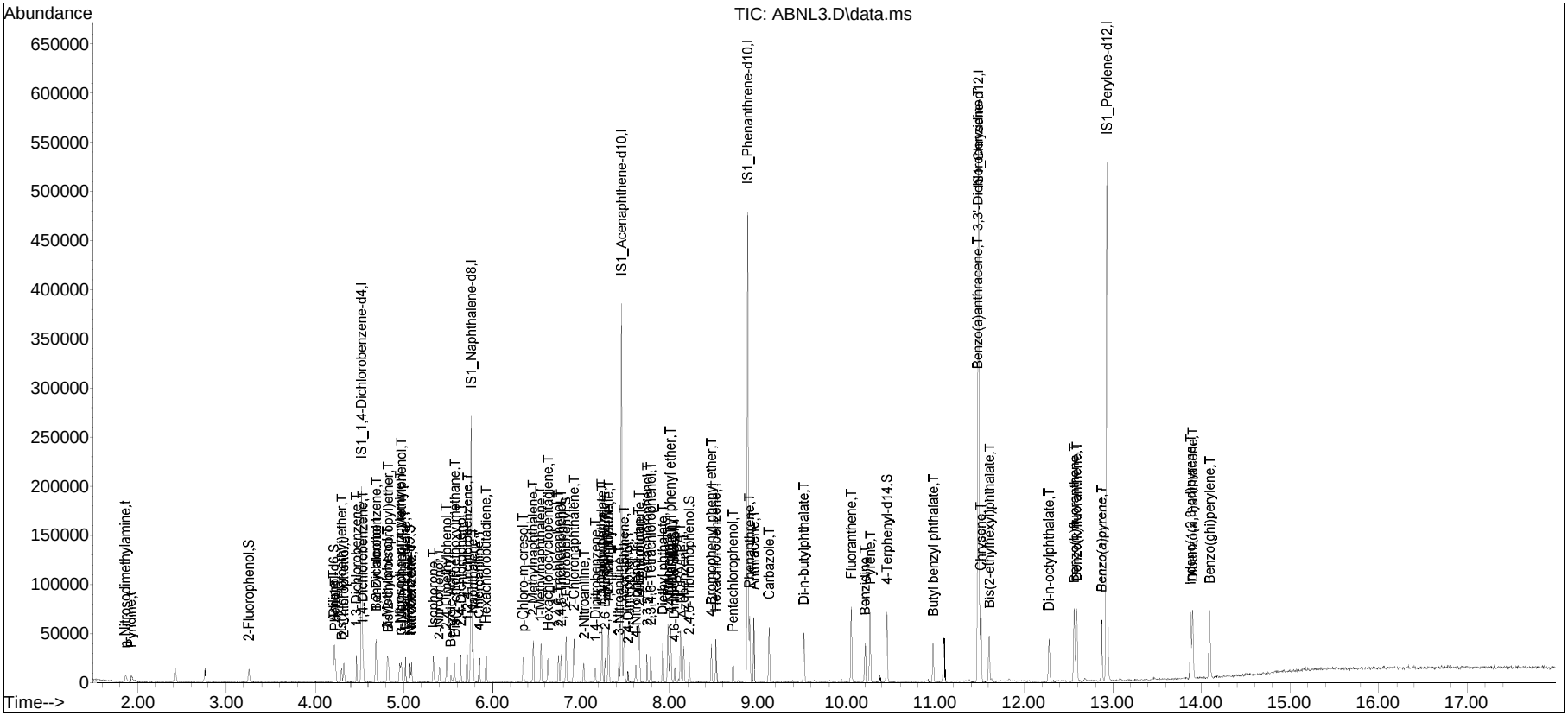
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\240618ical\
Data File : ABNL3.D
Acq On : 18 Jun 2024 2:38 pm
Operator : Dakota:cmm
Sample : IL8,32,,ABNL0.5 Lot# 10784
Misc : WG1938219,,
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jun 19 20:47:07 2024
Quant Method : I:\8270\Dakota\240618ical\FS240618RVT_14D_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Jun 19 16:29:12 2024
Response via : Initial Calibration

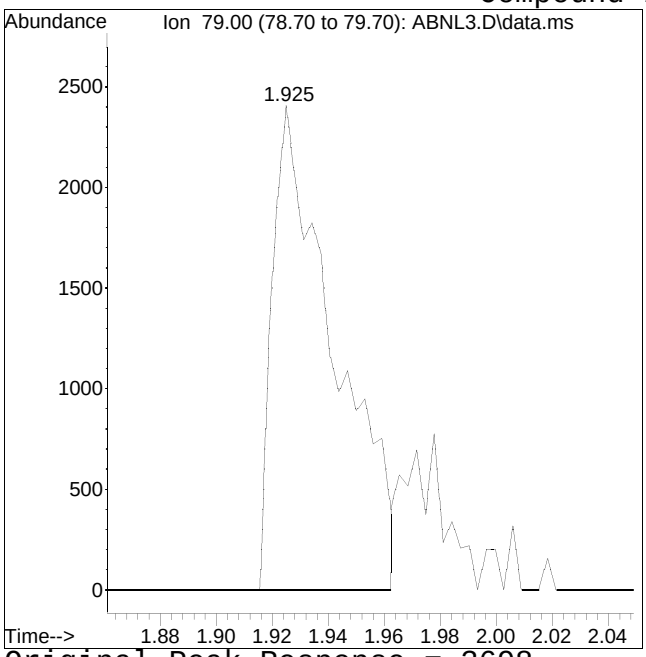
Sub List : ABNical - ABN ical sublistcal\ABNL6.D•

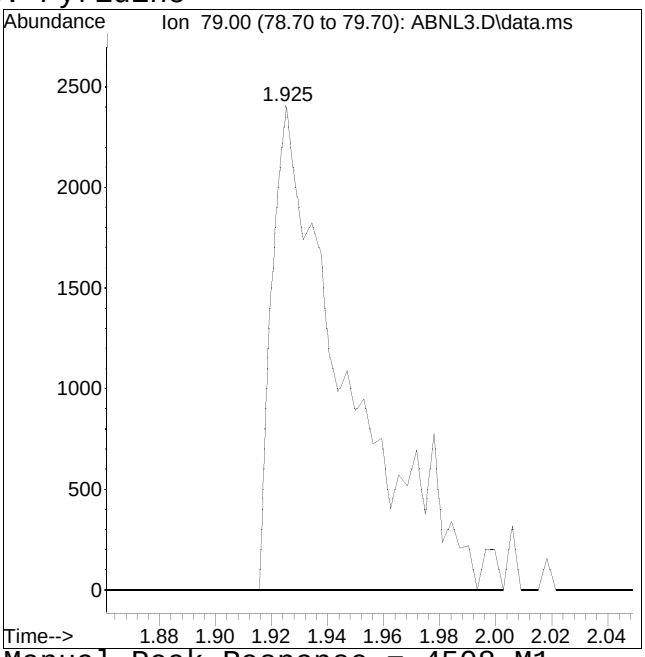


Manual Integration Report

Data Path : I:\8270\Dakota\240618ical\QMethod : FS240618RVT_14D_Dakota.m
Data File : ABNL3.D Operator : Dakota:cmm
Date Inj'd : 6/18/2024 2:38 pm Instrument : Dakota
Sample : IL8,32,,ABNL0.5 Lot# 10784Quant Date : 6/19/2024 4:30 pm

Compound #3: Pyridine



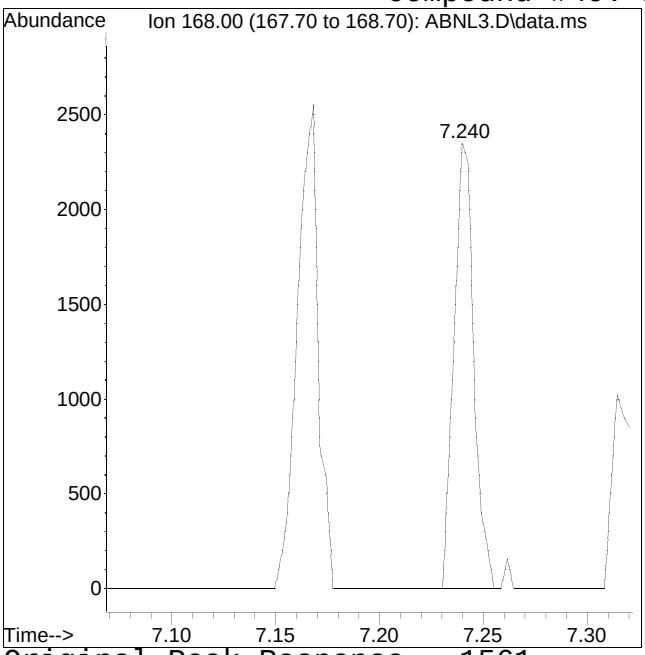


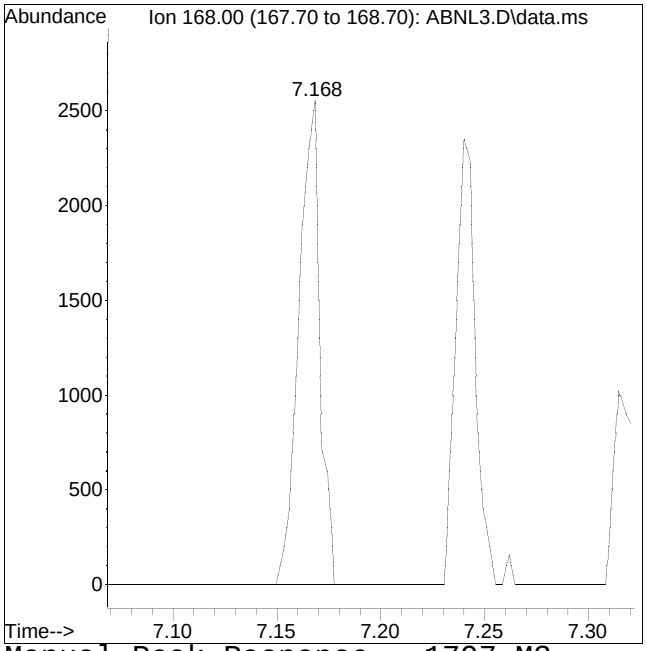
Original Peak Response = 3698 Manual Peak Response = 4508 M1
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Manual Integration Report

Data Path : I:\8270\Dakota\240618ical\QMethod : FS240618RVT_14D_Dakota.m
Data File : ABNL3.D Operator : Dakota:cmm
Date Inj'd : 6/18/2024 2:38 pm Instrument : Dakota
Sample : IL8,32,,ABNL0.5 Lot# 10784Quant Date : 6/19/2024 4:30 pm

Compound #49: 1,4-Dinitrobenzene





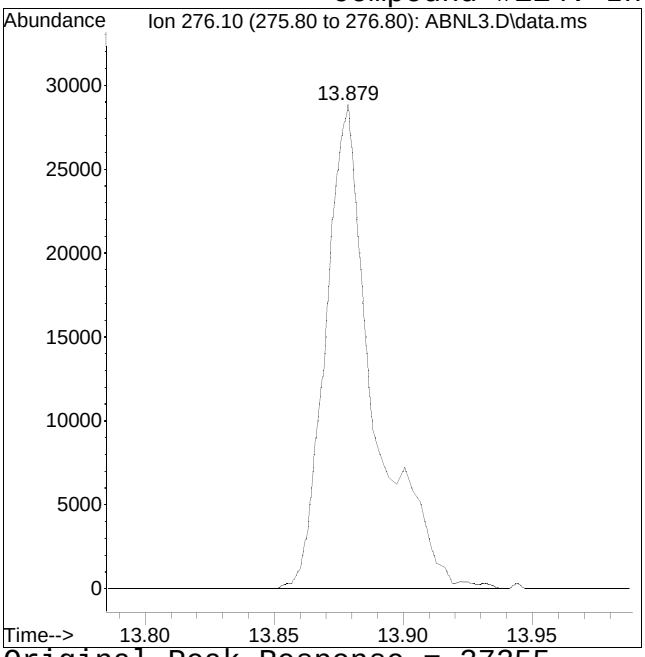
Original Peak Response = 1561 Manual Peak Response = 1797 M3

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

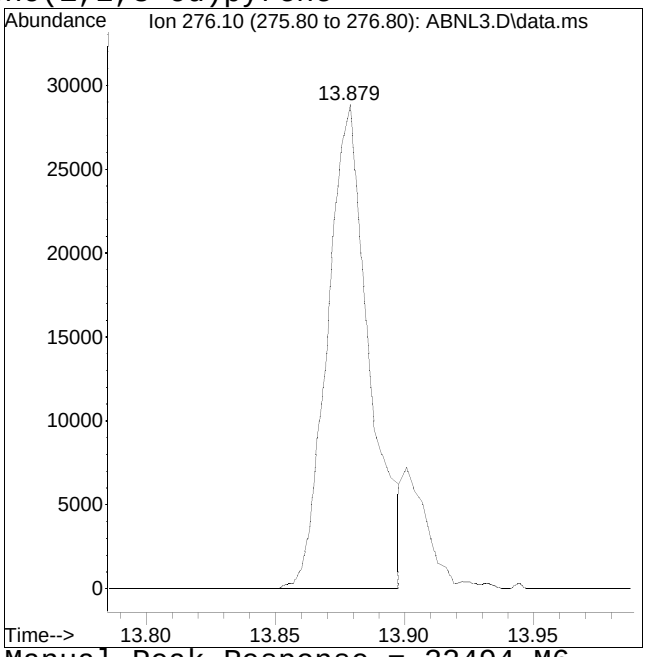
Manual Integration Report

Data Path : I:\8270\Dakota\240618ical\QMethod : FS240618RVT_14D_Dakota.m
Data File : ABNL3.D Operator : Dakota:cmm
Date Inj'd : 6/18/2024 2:38 pm Instrument : Dakota
Sample : IL8,32,,ABNL0.5 Lot# 10784Quant Date : 6/19/2024 4:30 pm

Compound #114: Indeno(1,2,3-cd)pyrene



Original Peak Response = 37355



Manual Peak Response = 32494 M6

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\240618ical\
Data File : ABNL2.D
Acq On : 18 Jun 2024 3:00 pm
Operator : Dakota:cmm
Sample : IL9,32,,ABNL0.2 Lot# 10785
Misc : WG1938219,,
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jun 19 20:45:37 2024
Quant Method : I:\8270\Dakota\240618ical\FS240618RVT_14D_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Jun 19 16:29:12 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\240618ical\ABNL6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) IS1_1,4-Dichlorobenzen...	4.526	152	29381	4.000 ug/ml	0.00
Standard Area 1 = 28474			Recovery = 103.19%		
35) IS1_Naphthalene-d8	5.760	136	102035	4.000 ug/ml	# 0.00
Standard Area 1 = 106396			Recovery = 95.90%		
63) IS1_Acenaphthene-d10	7.457	164	67046	4.000 ug/ml	0.00
Standard Area 1 = 71692			Recovery = 93.52%		
88) IS1_Phenanthrene-d10	8.881	188	162304	4.000 ug/ml	0.00
Standard Area 1 = 164397			Recovery = 98.73%		
104) IS1_Chrysene-d12	11.485	240	162388	4.000 ug/ml	0.00
Standard Area 1 = 172424			Recovery = 94.18%		
113) IS1_Perylene-d12	12.934	264	196649	4.000 ug/ml	0.00
Standard Area 1 = 205352			Recovery = 95.76%		
System Monitoring Compounds					
4) 2-Fluorophenol	3.255	112	1851	0.249 ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 12.45%#		
7) Phenol-d6	4.213	99	1892	0.205 ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 10.25%#		
19) Nitrobenzene-d5	5.070	82	2124	0.223 ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 22.30%#		
46) 2-Fluorobiphenyl	6.830	172	6161	0.259 ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 25.90%#		
79) 2,4,6-Tribromophenol	8.222	330	904	0.200 ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 10.00%#		
96) 4-Terphenyl-d14	10.454	244	9595	0.242 ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 24.20%#		
Target Compounds					Qvalue
2) n-Nitrosodimethylamine	1.863	74	1154	0.232 ug/ml#	78
3) Pyridine	1.950	79	1714M1	0.216 ug/ml	
5) Aniline	4.213	93	2815	0.234 ug/ml#	92
6) 2-Chlorophenol	4.321	128	1806	0.211 ug/ml#	83
8) Phenol	4.225	94	2373	0.214 ug/ml	97
9) Bis(2-chloroethyl)ether	4.300	93	1610	0.228 ug/ml	96
10) 1,3-Dichlorobenzene	4.471	146	2587M3	0.240 ug/ml	
11) 1,4-Dichlorobenzene	4.545	146	2784	0.256 ug/ml	96
12) 1,2-Dichlorobenzene	4.694	146	2363	0.229 ug/ml	91
13) Benzyl alcohol	4.685	79	1395	0.193 ug/ml#	78
14) Bis(2-chloroisopropyl)...	4.828	45	2666	0.261 ug/ml#	37

Data Path : I:\8270\Dakota\240618ical\
Data File : ABNL2.D
Acq On : 18 Jun 2024 3:00 pm
Operator : Dakota:cmm
Sample : IL9,32,,ABNL0.2 Lot# 10785
Misc : WG1938219,,
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jun 19 20:45:37 2024
Quant Method : I:\8270\Dakota\240618ical\FS240618RVT_14D_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Jun 19 16:29:12 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\240618ical\ABNL6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
15) 2-Methylphenol	4.819	108	1783	0.239	ug/ml#	89
16) Hexachloroethane	5.018	117	1021	0.265	ug/ml#	63
17) n-Nitrosodi-n-propylamine	4.955	70	1471	0.226	ug/ml#	59
18) 3-Methylphenol/4-Methy...	4.974	108	1903	0.239	ug/ml#	96
20) Nitrobenzene	5.092	77	2201	0.238	ug/ml#	87
21) Isophorone	5.335	82	3305	0.197	ug/ml#	90
22) 2-Nitrophenol	5.403	139	891	0.189	ug/ml#	79
23) 2,4-Dimethylphenol	5.481	107	2043	0.262	ug/ml#	79
24) Bis(2-chloroethoxy)met...	5.571	93	2422	0.247	ug/ml#	84
25) 2,4-Dichlorophenol	5.639	162	1912	0.206	ug/ml#	87
26) 1,2,4-Trichlorobenzene	5.717	180	2704	0.250	ug/ml#	94
36) Naphthalene	5.779	128	6421	0.260	ug/ml	99
37) Benzoic Acid	5.533	105	359M2	0.066	ug/ml	
38) 4-Chloroaniline	5.854	65	901	0.294	ug/ml	86
39) Hexachlorobutadiene	5.934	225	1511	0.247	ug/ml#	87
40) p-Chloro-m-cresol	6.351	107	1515	0.210	ug/ml#	80
41) 2-Methylnaphthalene	6.460	142	4506	0.250	ug/ml	99
42) 1-Methylnaphthalene	6.550	115	1477	0.251	ug/ml	89
43) Hexachlorocyclopentadiene	6.631	237	1670	0.235	ug/ml#	93
44) 2,4,6-Trichlorophenol	6.749	196	1705M3	0.233	ug/ml	
45) 2,4,5-Trichlorophenol	6.774	196	1710	0.216	ug/ml	92
47) 2-Chloronaphthalene	6.923	162	5136	0.257	ug/ml#	89
48) 2-Nitroaniline	7.035	138	1179	0.213	ug/ml#	78
49) 1,4-Dinitrobenzene	7.162	168	626	0.217	ug/ml	78
50) 1,3-Dinitrobenzene	7.243	168	683	0.206	ug/ml#	1
51) Dimethyl phthalate	7.237	163	6188	0.254	ug/ml#	95
52) Acenaphthylene	7.318	152	6898	0.227	ug/ml	97
53) 2,6-Dinitrotoluene	7.277	165	1252	0.244	ug/ml#	71
54) 1,2-Dinitrobenzene	7.321	168	385M3	0.198	ug/ml	
64) 3-Nitroaniline	7.436	138	1152	0.234	ug/ml#	67
65) Acenaphthene	7.485	154	4912	0.287	ug/ml	99
66) 2,4-Dinitrophenol	7.532	184	302M2	0.087	ug/ml	
67) Dibenzofuran	7.656	168	7398	0.249	ug/ml	99
68) 2,4-Dinitrotoluene	7.666	165	1449	0.208	ug/ml	95
69) 4-Nitrophenol	7.625	65	856	0.209	ug/ml	90
70) 2,3,5,6-Tetrachlorophenol	7.746	232	1620M3	0.233	ug/ml	
71) 2,3,4,6-Tetrachlorophenol	7.793	232	1464	0.216	ug/ml	97
72) Diethyl phthalate	7.924	149	6763	0.279	ug/ml	96
73) Fluorene	7.986	166	5912	0.257	ug/ml	93
74) 4-Chlorophenyl phenyl ...	8.008	204	3211	0.272	ug/ml#	83

Data Path : I:\8270\Dakota\240618ical\
Data File : ABNL2.D
Acq On : 18 Jun 2024 3:00 pm
Operator : Dakota:cmm
Sample : IL9,32,,ABNL0.2 Lot# 10785
Misc : WG1938219,,
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jun 19 20:45:37 2024
Quant Method : I:\8270\Dakota\240618ical\FS240618RVT_14D_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Jun 19 16:29:12 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\240618ical\ABNL6.D
Sub List : ABNical - ABN ical sublist

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
75)	4-Nitroaniline	8.014	138	830	0.167	ug/ml#	89
76)	4,6-Dinitro-o-cresol	8.054	198	753	0.165	ug/ml#	66
77)	NDPA/DPA	8.123	169	4947	0.251	ug/ml	94
78)	Azobenzene	8.157	77	5118	0.254	ug/ml#	90
80)	4-Bromophenyl phenyl e...	8.474	248	1969	0.259	ug/ml#	82
81)	Hexachlorobenzene	8.520	284	2428	0.261	ug/ml#	74
82)	Pentachlorophenol	8.719	266	958	0.156	ug/ml	95
89)	Phenanthrene	8.903	178	10637	0.263	ug/ml	97
90)	Anthracene	8.952	178	9721M3	0.241	ug/ml	
91)	Carbazole	9.120	167	9134	0.236	ug/ml	98
92)	Di-n-butylphthalate	9.518	149	10125	0.223	ug/ml#	92
93)	Fluoranthene	10.050	202	12304	0.247	ug/ml#	94
94)	Benzidine	10.205	184	6149	0.201	ug/ml#	85
95)	Pyrene	10.261	202	12165	0.232	ug/ml	97
97)	Butyl benzyl phthalate	10.976	149	4214	0.198	ug/ml#	76
105)	Benzo(a)anthracene	11.476	228	12767	0.250	ug/ml	95
106)	3,3'-Dichlorobenzidine	11.479	252	4294	0.209	ug/ml	91
107)	Chrysene	11.510	228	13814	0.288	ug/ml	98
108)	Bis(2-ethylhexyl)phtha...	11.610	149	6035	0.190	ug/ml#	86
109)	Di-n-octylphthalate	12.281	149	9546	0.176	ug/ml#	76
110)	Benzo(b)fluoranthene	12.564	252	12876	0.235	ug/ml#	93
111)	Benzo(k)fluoranthene	12.595	252	12753	0.243	ug/ml#	94
112)	Benzo(a)pyrene	12.875	252	11133	0.222	ug/ml#	94
114)	Indeno(1,2,3-cd)pyrene	13.879	276	12555	0.214	ug/mL#	89
115)	Dibenzo(a,h)anthracene	13.904	278	12917	0.232	ug/ml#	88
116)	Benzo(ghi)perylene	14.096	276	12453	0.235	ug/ml#	80

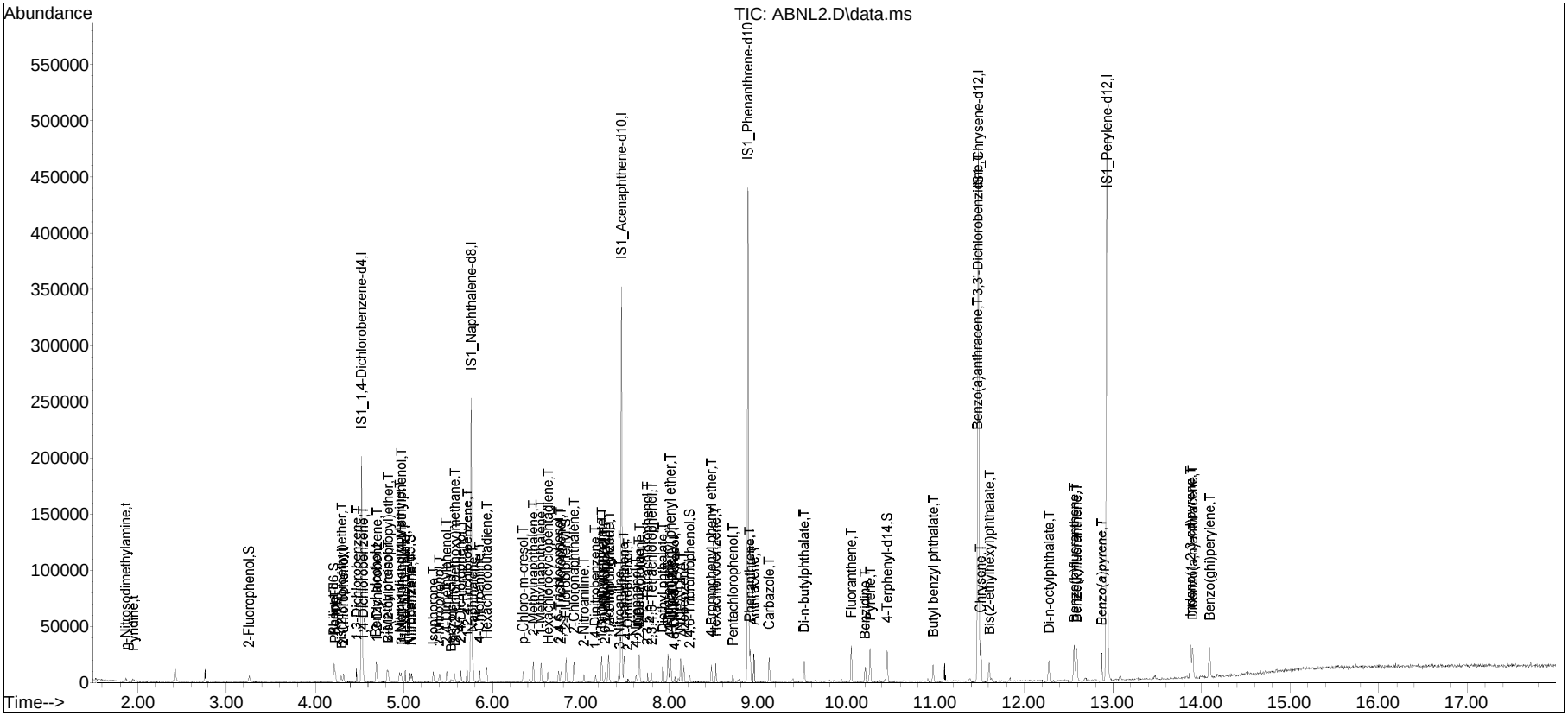
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\240618ical\
Data File : ABNL2.D
Acq On : 18 Jun 2024 3:00 pm
Operator : Dakota:cmm
Sample : IL9,32,,ABNL0.2 Lot# 10785
Misc : WG1938219,,
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jun 19 20:45:37 2024
Quant Method : I:\8270\Dakota\240618ical\FS240618RVT_14D_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Jun 19 16:29:12 2024
Response via : Initial Calibration

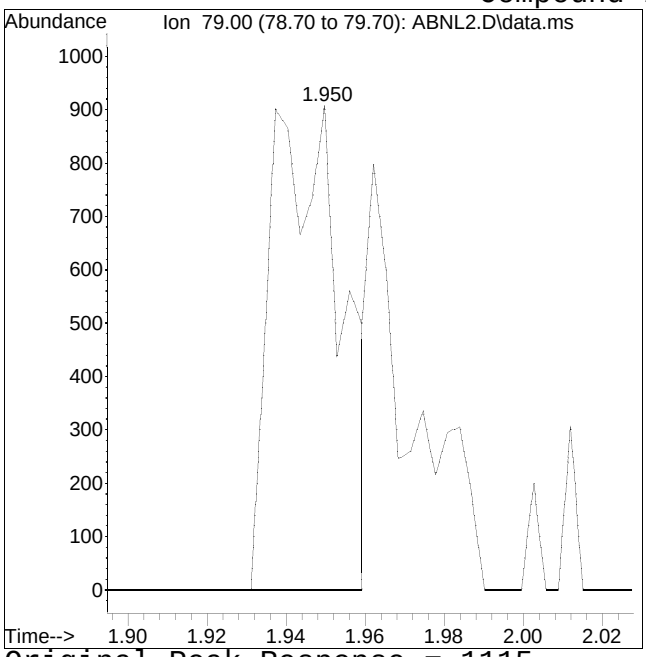
Sub List : ABNical - ABN ical sublistcal\ABNL6.D•

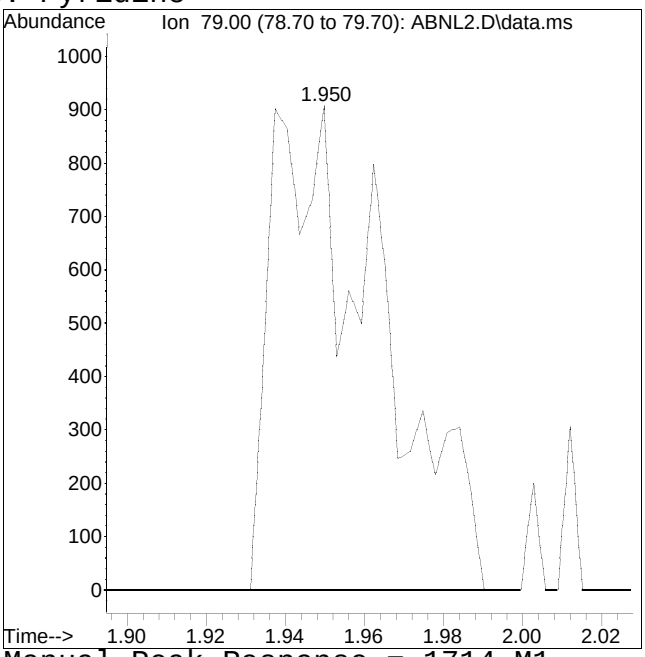


Manual Integration Report

Data Path : I:\8270\Dakota\240618ical\QMethod : FS240618RVT_14D_Dakota.m
Data File : ABNL2.D Operator : Dakota:cmm
Date Inj'd : 6/18/2024 3:00 pm Instrument : Dakota
Sample : IL9,32,,ABNL0.2 Lot# 10785Quant Date : 6/19/2024 4:30 pm

Compound #3: Pyridine



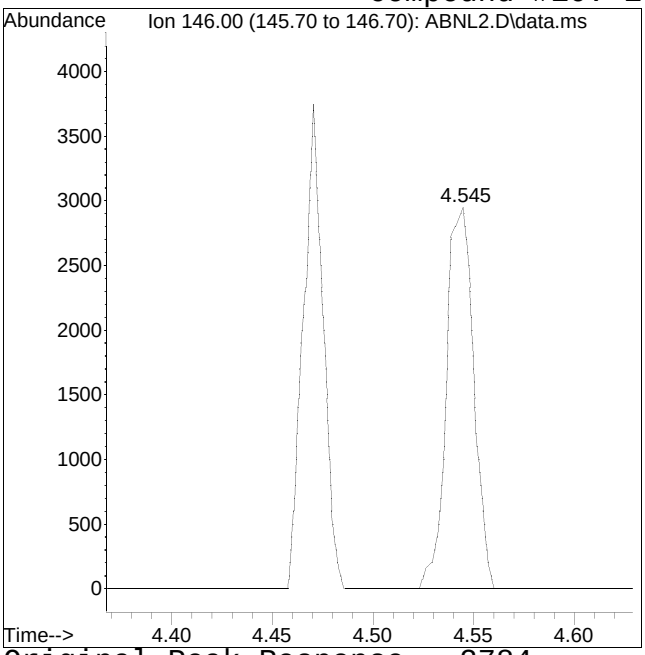


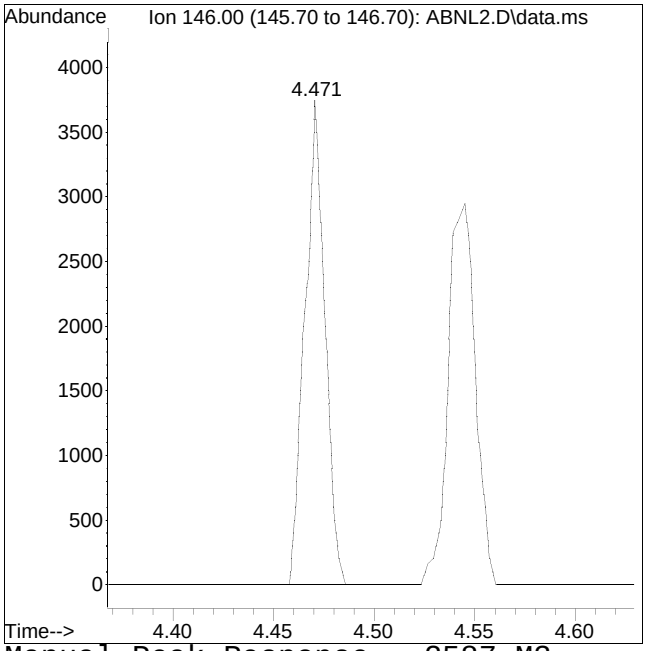
Original Peak Response = 1115 Manual Peak Response = 1714 M1
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Manual Integration Report

Data Path : I:\8270\Dakota\240618ical\QMethod : FS240618RVT_14D_Dakota.m
Data File : ABNL2.D Operator : Dakota:cmm
Date Inj'd : 6/18/2024 3:00 pm Instrument : Dakota
Sample : IL9,32,,ABNL0.2 Lot# 10785Quant Date : 6/19/2024 4:30 pm

Compound #10: 1,3-Dichlorobenzene



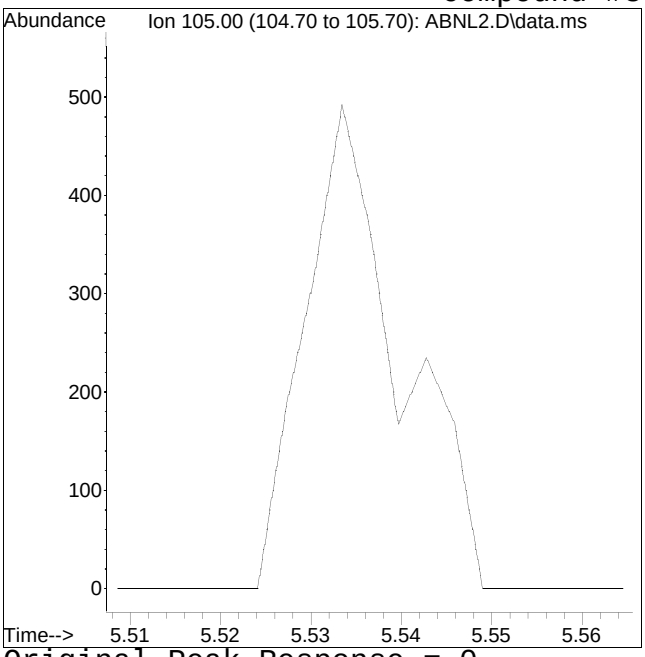


Original Peak Response = 2784 Manual Peak Response = 2587 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

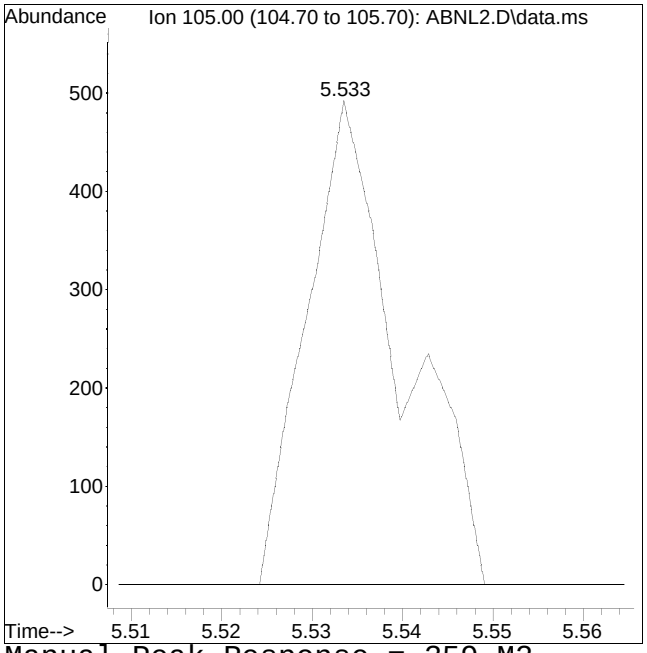
Manual Integration Report

Data Path : I:\8270\Dakota\240618ical\QMethod : FS240618RVT_14D_Dakota.m
Data File : ABNL2.D Operator : Dakota:cmm
Date Inj'd : 6/18/2024 3:00 pm Instrument : Dakota
Sample : IL9,32,,ABNL0.2 Lot# 10785Quant Date : 6/19/2024 4:30 pm

Compound #37: Benzoic Acid



Original Peak Response = 0



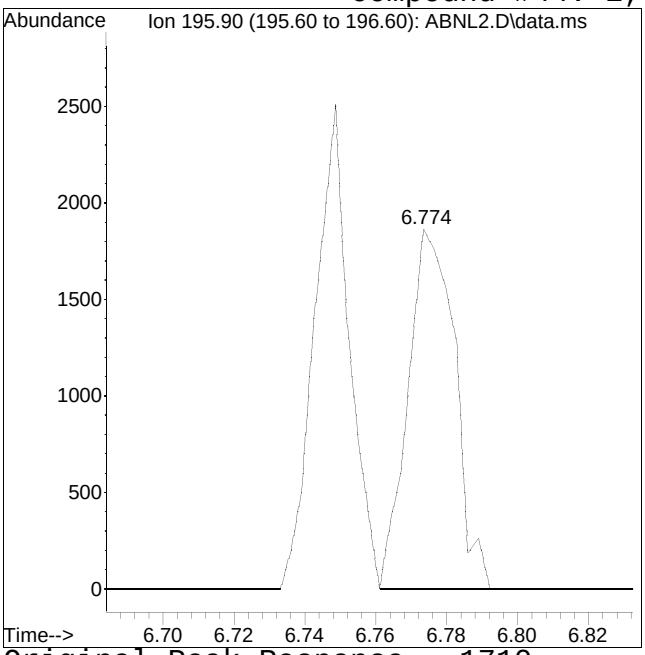
Manual Peak Response = 359 M2

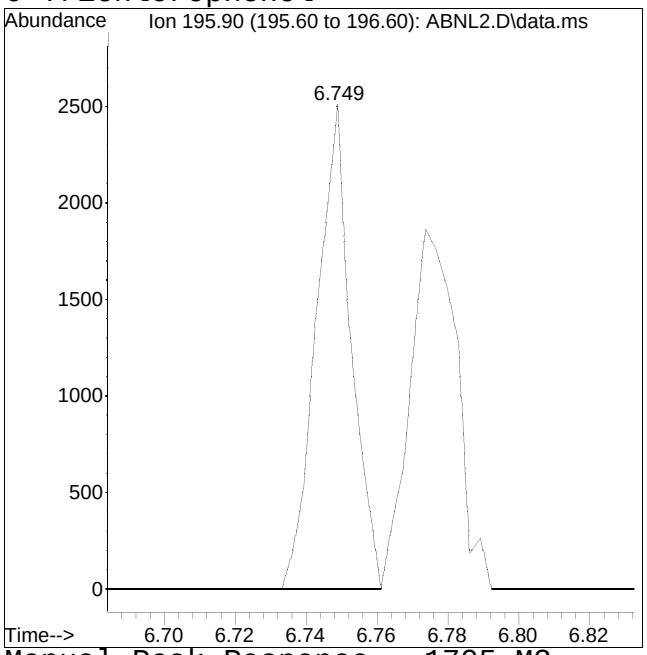
M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

Data Path : I:\8270\Dakota\240618ical\QMethod : FS240618RVT_14D_Dakota.m
Data File : ABNL2.D Operator : Dakota:cmm
Date Inj'd : 6/18/2024 3:00 pm Instrument : Dakota
Sample : IL9,32,,ABNL0.2 Lot# 10785Quant Date : 6/19/2024 4:30 pm

Compound #44: 2,4,6-Trichlorophenol





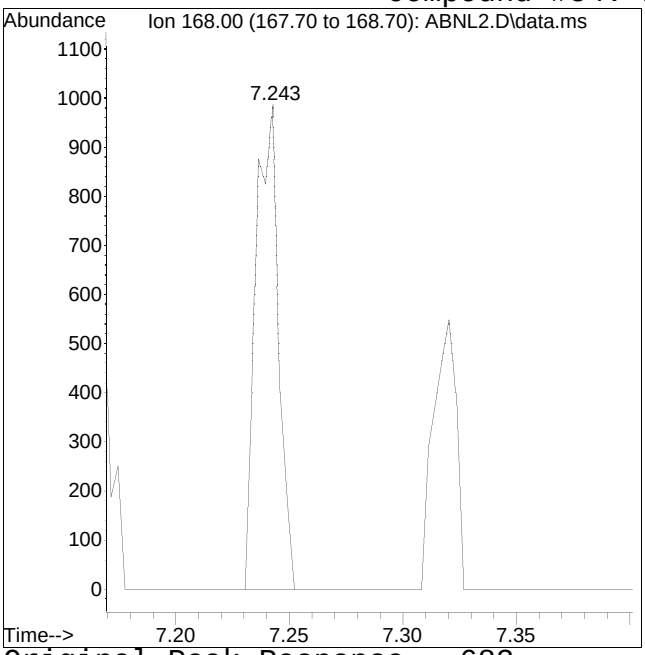
Original Peak Response = 1710 Manual Peak Response = 1705 M3

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

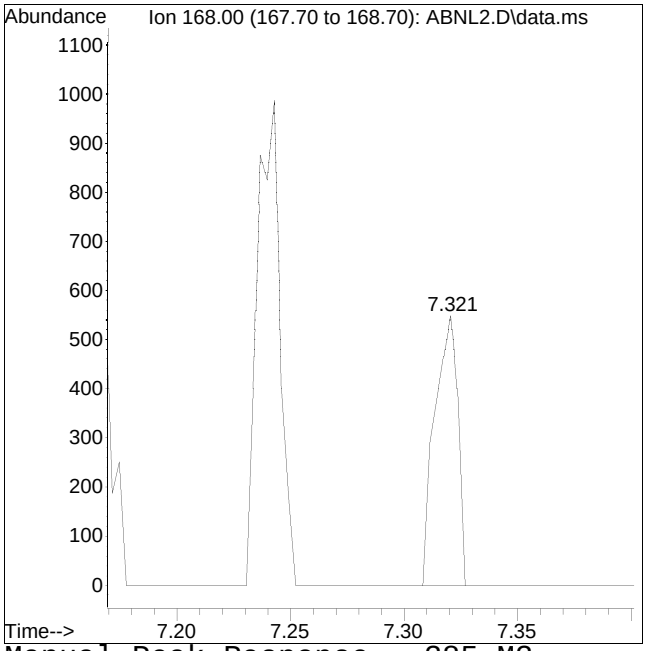
Manual Integration Report

Data Path : I:\8270\Dakota\240618ical\QMethod : FS240618RVT_14D_Dakota.m
Data File : ABNL2.D Operator : Dakota:cmm
Date Inj'd : 6/18/2024 3:00 pm Instrument : Dakota
Sample : IL9,32,,ABNL0.2 Lot# 10785Quant Date : 6/19/2024 4:30 pm

Compound #54: 1,2-Dinitrobenzene



Original Peak Response = 683



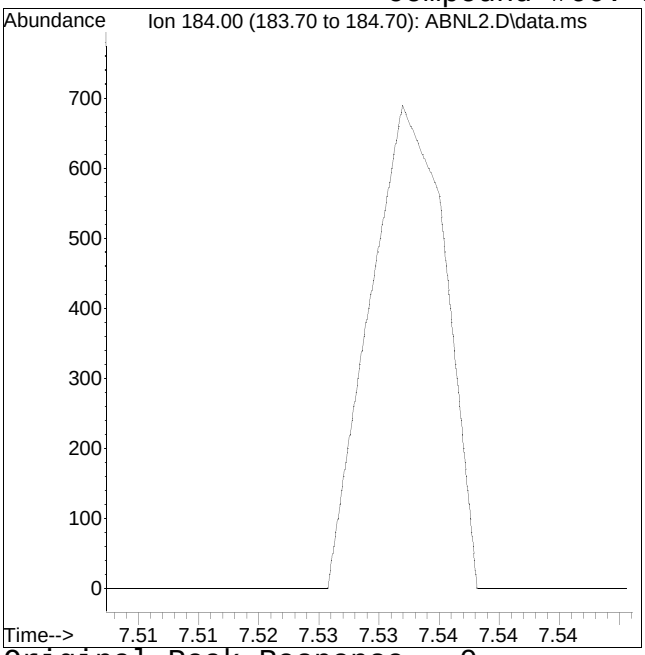
Manual Peak Response = 385 M3

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

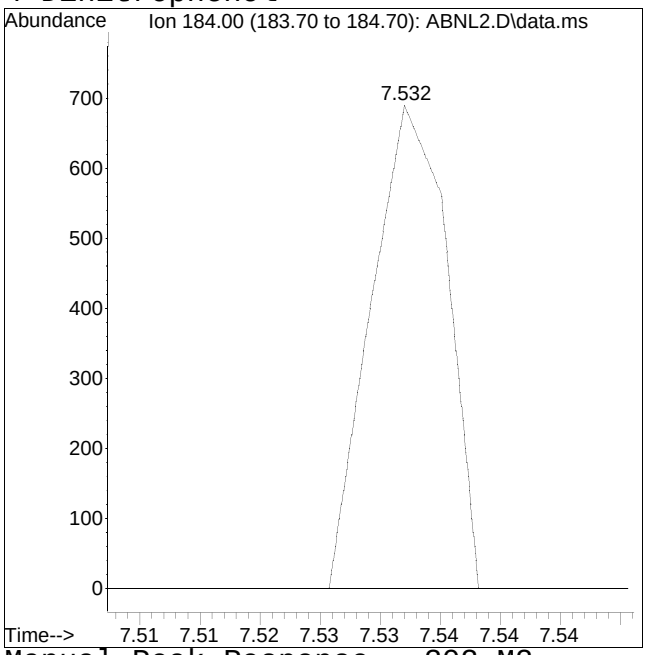
Manual Integration Report

Data Path : I:\8270\Dakota\240618ical\QMethod : FS240618RVT_14D_Dakota.m
Data File : ABNL2.D Operator : Dakota:cmm
Date Inj'd : 6/18/2024 3:00 pm Instrument : Dakota
Sample : IL9,32,,ABNL0.2 Lot# 10785Quant Date : 6/19/2024 4:30 pm

Compound #66: 2,4-Dinitrophenol



Original Peak Response = 0



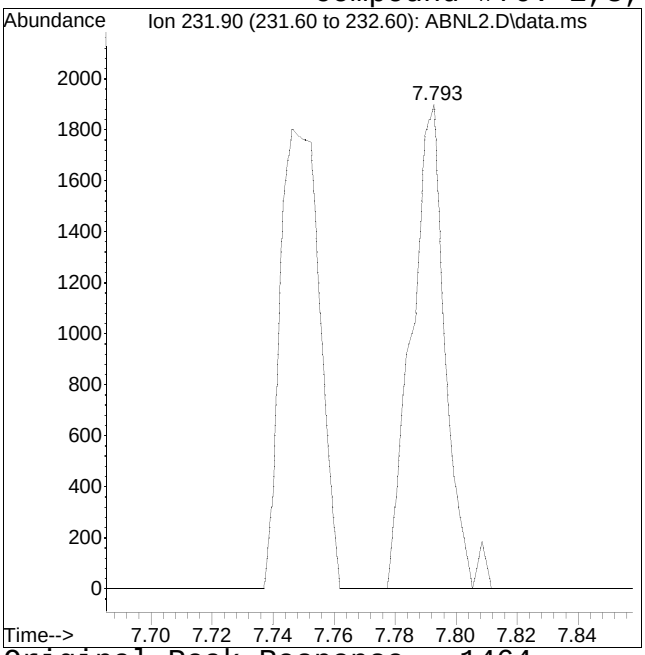
Manual Peak Response = 302 M2

M2 = Peak not found by automatic integration algorithm.

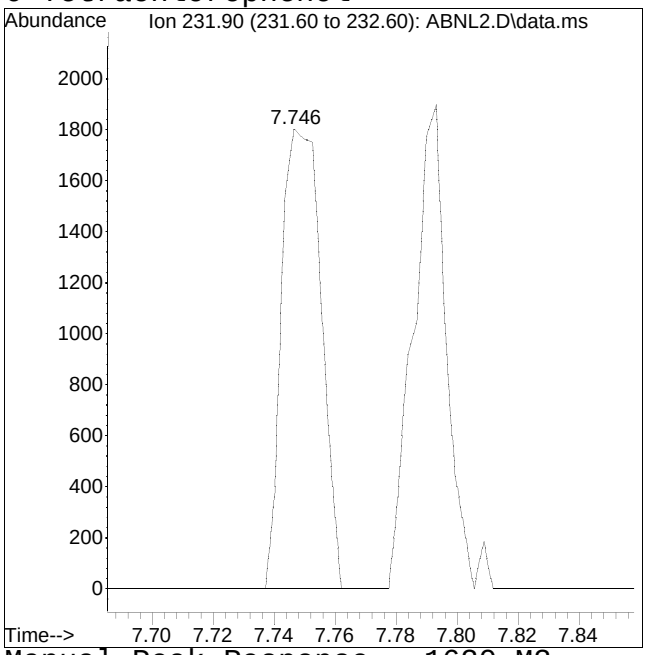
Manual Integration Report

Data Path : I:\8270\Dakota\240618ical\QMethod : FS240618RVT_14D_Dakota.m
Data File : ABNL2.D Operator : Dakota:cmm
Date Inj'd : 6/18/2024 3:00 pm Instrument : Dakota
Sample : IL9,32,,ABNL0.2 Lot# 10785Quant Date : 6/19/2024 4:30 pm

Compound #70: 2,3,5,6-Tetrachlorophenol



Original Peak Response = 1464



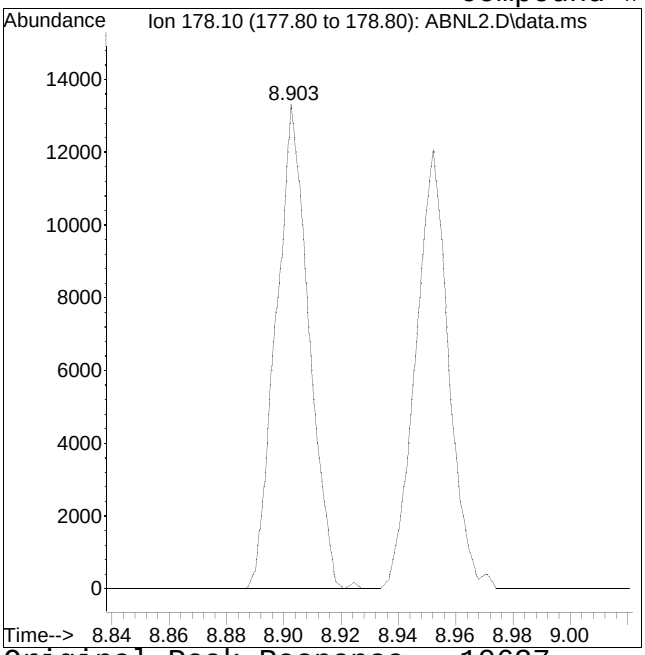
Manual Peak Response = 1620 M3

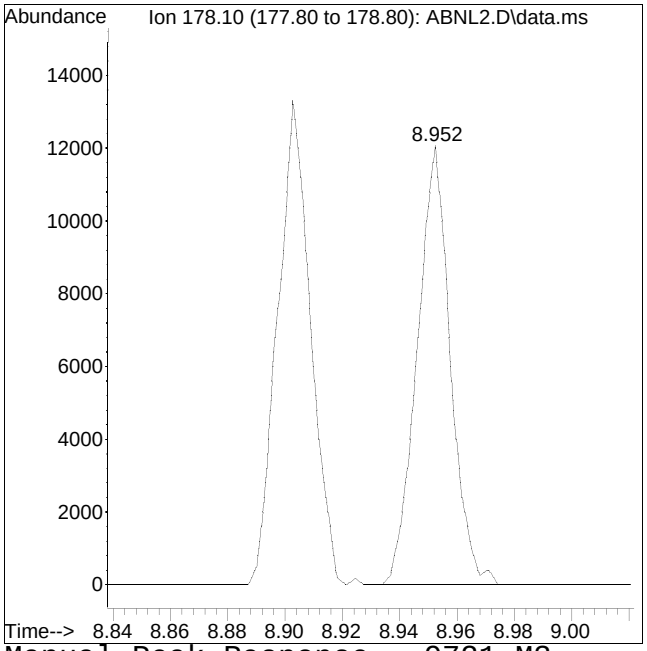
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\8270\Dakota\240618ical\QMethod : FS240618RVT_14D_Dakota.m
Data File : ABNL2.D Operator : Dakota:cmm
Date Inj'd : 6/18/2024 3:00 pm Instrument : Dakota
Sample : IL9,32,,ABNL0.2 Lot# 10785Quant Date : 6/19/2024 4:30 pm

Compound #90: Anthracene





Original Peak Response = 10637 Manual Peak Response = 9721 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\240618ical\
Data File : ABNL1.D
Acq On : 18 Jun 2024 3:23 pm
Operator : Dakota:cmm
Sample : IL10,32,,ABNL0.1 Lot# 10786
Misc : WG1938219,,
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jun 19 16:37:37 2024
Quant Method : I:\8270\Dakota\240618ical\FS240618RVT_14D_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Jun 19 16:29:12 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\240618ical\ABNL6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) IS1_1,4-Dichlorobenzen...	4.527	152	30020	4.000 ug/ml	0.00
Standard Area 1 = 28474			Recovery = 105.43%		
35) IS1_Naphthalene-d8	5.760	136	102756	4.000 ug/ml	# 0.00
Standard Area 1 = 106396			Recovery = 96.58%		
63) IS1_Acenaphthene-d10	7.457	164	67199	4.000 ug/ml	0.00
Standard Area 1 = 71692			Recovery = 93.73%		
88) IS1_Phenanthrene-d10	8.881	188	163260	4.000 ug/ml	0.00
Standard Area 1 = 164397			Recovery = 99.31%		
104) IS1_Chrysene-d12	11.486	240	162239	4.000 ug/ml	0.00
Standard Area 1 = 172424			Recovery = 94.09%		
113) IS1_Perylene-d12	12.934	264	191665	4.000 ug/ml	0.00
Standard Area 1 = 205352			Recovery = 93.33%		
System Monitoring Compounds					
4) 2-Fluorophenol	3.262	112	725	0.095 ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 4.75%#		
7) Phenol-d6	4.219	99	1051	0.112 ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 5.60%#		
19) Nitrobenzene-d5	5.074	82	1325	0.136 ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 13.60%#		
46) 2-Fluorobiphenyl	6.830	172	3084	0.129 ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 12.90%#		
79) 2,4,6-Tribromophenol	8.219	330	306M2	0.067 ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 3.35%#		
96) 4-Terphenyl-d14	10.451	244	5532	0.139 ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 13.90%#		
Target Compounds					Qvalue
2) n-Nitrosodimethylamine	0.000		0	N.D.	
3) Pyridine	0.000		0	N.D.	
5) Aniline	4.216	93	1482	0.120 ug/ml#	81
6) 2-Chlorophenol	4.324	128	873	0.100 ug/ml#	30
8) Phenol	4.231	94	1122	0.099 ug/ml#	68
9) Bis(2-chloroethyl)ether	4.300	93	828	0.115 ug/ml#	85
10) 1,3-Dichlorobenzene	4.467	146	1008	0.092 ug/ml#	53
11) 1,4-Dichlorobenzene	4.548	146	1197	0.108 ug/ml#	62
12) 1,2-Dichlorobenzene	4.694	146	1205	0.114 ug/ml#	72
13) Benzyl alcohol	4.691	79	684	0.093 ug/ml#	46

Data Path : I:\8270\Dakota\240618ical\
Data File : ABNL1.D
Acq On : 18 Jun 2024 3:23 pm
Operator : Dakota:cmm
Sample : IL10,32,,ABNL0.1 Lot# 10786
Misc : WG1938219,,
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jun 19 16:37:37 2024
Quant Method : I:\8270\Dakota\240618ical\FS240618RVT_14D_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Jun 19 16:29:12 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\240618ical\ABNL6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
14) Bis(2-chloroisopropyl)...	4.831	45	1353	0.130	ug/ml#	34
15) 2-Methylphenol	4.816	108	914	0.120	ug/ml#	87
16) Hexachloroethane	5.018	117	384M2	0.098	ug/ml	
17) n-Nitrosodi-n-propylamine	4.955	70	819	0.123	ug/ml#	59
18) 3-Methylphenol/4-Methy...	4.974	108	892	0.110	ug/ml#	91
20) Nitrobenzene	5.092	77	1080	0.114	ug/ml#	39
21) Isophorone	5.332	82	1878	0.110	ug/ml#	65
22) 2-Nitrophenol	5.406	139	504	0.104	ug/ml#	31
23) 2,4-Dimethylphenol	5.487	107	775	0.097	ug/ml#	72
24) Bis(2-chloroethoxy)met...	5.571	93	1223	0.122	ug/ml#	50
25) 2,4-Dichlorophenol	5.642	162	965	0.102	ug/ml#	25
26) 1,2,4-Trichlorobenzene	5.717	180	1319	0.119	ug/ml#	84
36) Naphthalene	5.779	128	3277	0.132	ug/ml#	52
37) Benzoic Acid	0.000		0	N.D.		
38) 4-Chloroaniline	0.000		0	N.D.		
39) Hexachlorobutadiene	5.934	225	681	0.111	ug/ml#	49
40) p-Chloro-m-cresol	6.354	107	734	0.101	ug/ml#	70
41) 2-Methylnaphthalene	6.460	142	2212	0.122	ug/ml	95
42) 1-Methylnaphthalene	6.550	115	759	0.128	ug/ml	87
43) Hexachlorocyclopentadiene	6.628	237	734	0.102	ug/ml#	27
44) 2,4,6-Trichlorophenol	6.746	196	766	0.104	ug/ml#	84
45) 2,4,5-Trichlorophenol	6.774	196	805	0.101	ug/ml#	85
47) 2-Chloronaphthalene	6.923	162	2357	0.117	ug/ml#	89
48) 2-Nitroaniline	7.035	138	629	0.113	ug/ml#	56
49) 1,4-Dinitrobenzene	7.165	168	292M2	0.100	ug/ml	
50) 1,3-Dinitrobenzene	7.243	168	303M2	0.091	ug/ml	
51) Dimethyl phthalate	7.234	163	3407	0.139	ug/ml#	77
52) Acenaphthylene	7.318	152	3614	0.118	ug/ml#	82
53) 2,6-Dinitrotoluene	7.280	165	526	0.102	ug/ml#	47
54) 1,2-Dinitrobenzene	0.000		0	N.D.		
64) 3-Nitroaniline	0.000		0	N.D.		
65) Acenaphthene	7.492	154	2428	0.142	ug/ml	97
66) 2,4-Dinitrophenol	0.000		0	N.D.		
67) Dibenzofuran	7.656	168	4106	0.138	ug/ml#	81
68) 2,4-Dinitrotoluene	7.666	165	640	0.092	ug/ml#	10
69) 4-Nitrophenol	7.622	65	445M3	0.109	ug/ml	
70) 2,3,5,6-Tetrachlorophenol	7.750	232	857	0.123	ug/ml#	68
71) 2,3,4,6-Tetrachlorophenol	7.793	232	618	0.091	ug/ml#	71
72) Diethyl phthalate	7.927	149	3006	0.124	ug/ml#	88
73) Fluorene	7.986	166	2835	0.123	ug/ml#	92

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\240618ical\
Data File : ABNL1.D
Acq On : 18 Jun 2024 3:23 pm
Operator : Dakota:cmm
Sample : IL10,32,,ABNL0.1 Lot# 10786
Misc : WG1938219,,
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jun 19 16:37:37 2024
Quant Method : I:\8270\Dakota\240618ical\FS240618RVT_14D_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Jun 19 16:29:12 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\240618ical\ABNL6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
74) 4-Chlorophenyl phenyl ...	8.008	204	1639	0.138	ug/ml#	64
75) 4-Nitroaniline	8.017	138	528	0.106	ug/ml#	69
76) 4,6-Dinitro-o-cresol	0.000		0	N.D.		
77) NDPA/DPA	8.123	169	2584	0.131	ug/ml	95
78) Azobenzene	8.157	77	2223	0.110	ug/ml#	56
80) 4-Bromophenyl phenyl e...	8.474	248	1009	0.133	ug/ml#	76
81) Hexachlorobenzene	8.520	284	1253	0.135	ug/ml#	33
82) Pentachlorophenol	8.716	266	438M2	0.071	ug/ml	
89) Phenanthrene	8.903	178	5668	0.139	ug/ml	97
90) Anthracene	8.949	178	4904	0.121	ug/ml	95
91) Carbazole	9.123	167	4647	0.119	ug/ml#	86
92) Di-n-butylphthalate	9.515	149	5061	0.111	ug/ml#	79
93) Fluoranthene	10.050	202	6725	0.134	ug/ml#	90
94) Benzidine	10.205	184	2833	0.092	ug/ml#	68
95) Pyrene	10.261	202	6846	0.130	ug/ml	96
97) Butyl benzyl phthalate	10.973	149	2063	0.096	ug/ml#	78
105) Benzo(a)anthracene	11.476	228	6401	0.125	ug/ml	98
106) 3,3'-Dichlorobenzidine	11.482	252	1965	0.096	ug/ml#	80
107) Chrysene	11.510	228	7053	0.147	ug/ml	98
108) Bis(2-ethylhexyl)phtha...	11.607	149	3150	0.099	ug/ml#	88
109) Di-n-octylphthalate	12.278	149	4725	0.087	ug/ml#	55
110) Benzo(b)fluoranthene	12.564	252	6752	0.123	ug/ml#	94
111) Benzo(k)fluoranthene	12.595	252	6237M3	0.119	ug/ml	
112) Benzo(a)pyrene	12.872	252	5612M3	0.112	ug/ml	
114) Indeno(1,2,3-cd)pyrene	13.879	276	6424	0.113	ug/mL#	87
115) Dibenzo(a,h)anthracene	13.897	278	5947	0.110	ug/ml#	90
116) Benzo(ghi)perylene	14.090	276	6192	0.120	ug/ml#	84

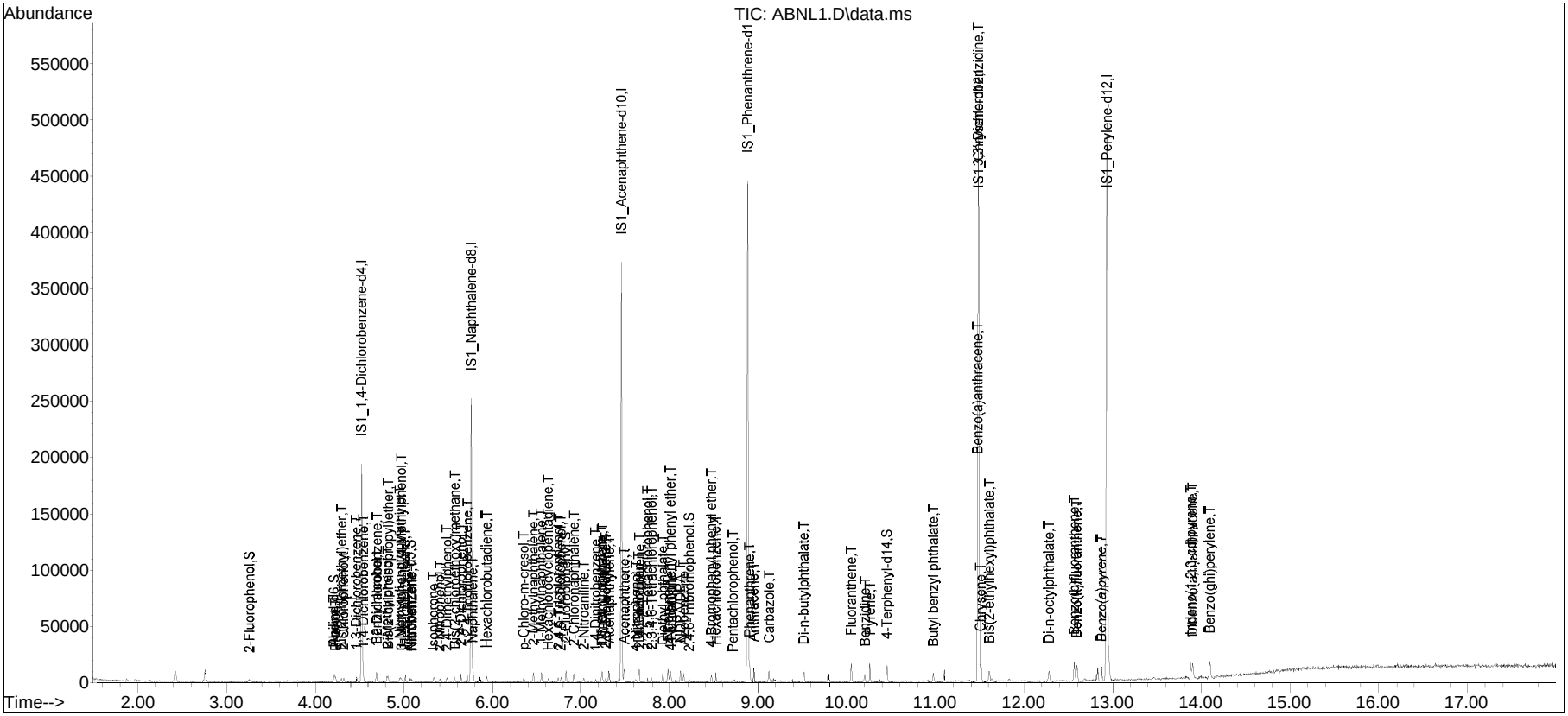
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\240618ical\
Data File : ABNL1.D
Acq On : 18 Jun 2024 3:23 pm
Operator : Dakota:cmm
Sample : IL10,32,,ABNL0.1 Lot# 10786
Misc : WG1938219,,
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jun 19 16:37:37 2024
Quant Method : I:\8270\Dakota\240618ical\FS240618RVT_14D_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Jun 19 16:29:12 2024
Response via : Initial Calibration

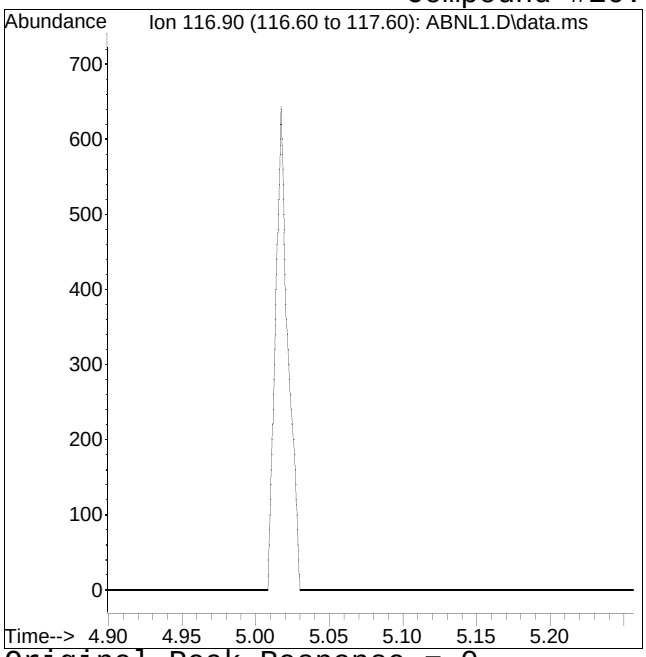
Sub List : ABNical - ABN ical sublistcal\ABNL6.D•

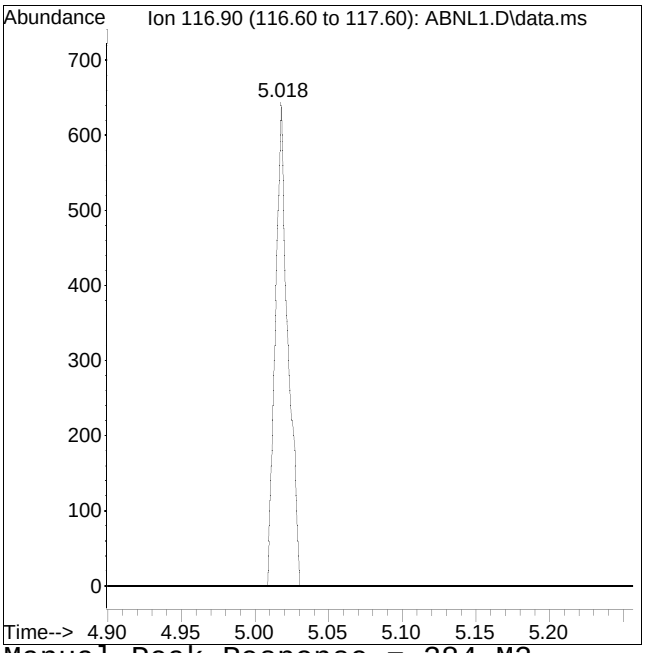


Manual Integration Report

Data Path : I:\8270\Dakota\240618ical\QMethod : FS240618RVT_14D_Dakota.m
Data File : ABNL1.D Operator : Dakota:cmm
Date Inj'd : 6/18/2024 3:23 pm Instrument : Dakota
Sample : IL10,32,,ABNL0.1 Lot# 1078Quant Date : 6/19/2024 4:29 pm

Compound #16: Hexachloroethane



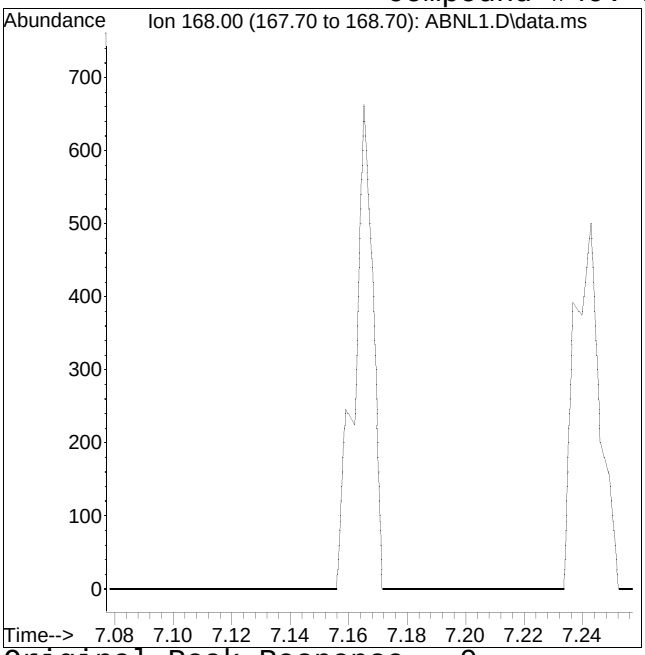


Original Peak Response = 0 Manual Peak Response = 384 M2
M2 = Peak not found by automatic integration algorithm.

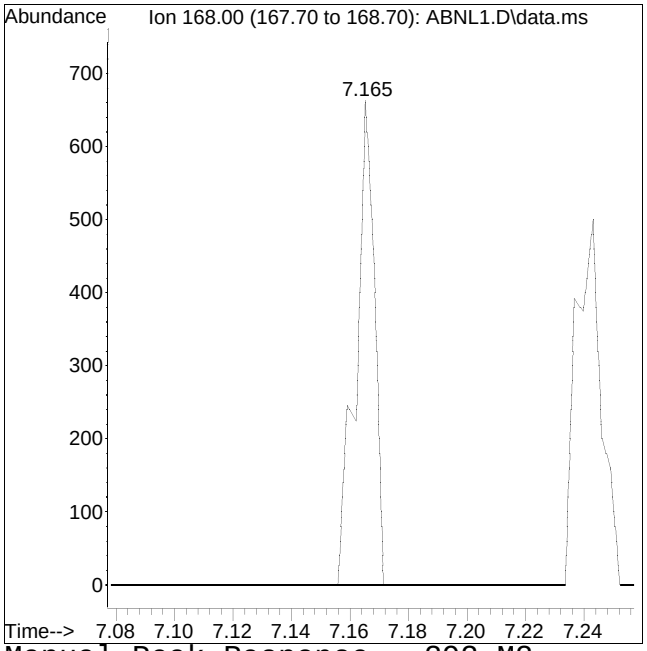
Manual Integration Report

Data Path : I:\8270\Dakota\240618ical\QMethod : FS240618RVT_14D_Dakota.m
Data File : ABNL1.D Operator : Dakota:cmm
Date Inj'd : 6/18/2024 3:23 pm Instrument : Dakota
Sample : IL10,32,,ABNL0.1 Lot# 1078Quant Date : 6/19/2024 4:29 pm

Compound #49: 1,4-Dinitrobenzene



Original Peak Response = 0



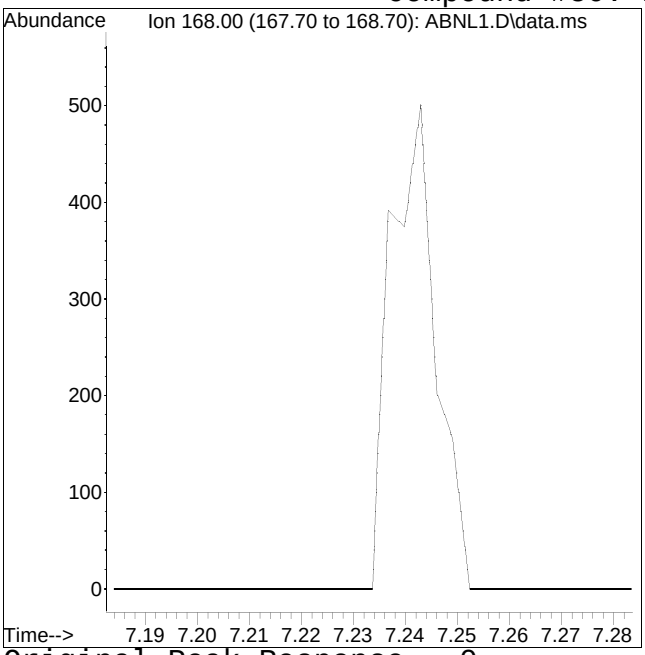
Manual Peak Response = 292 M2

M2 = Peak not found by automatic integration algorithm.

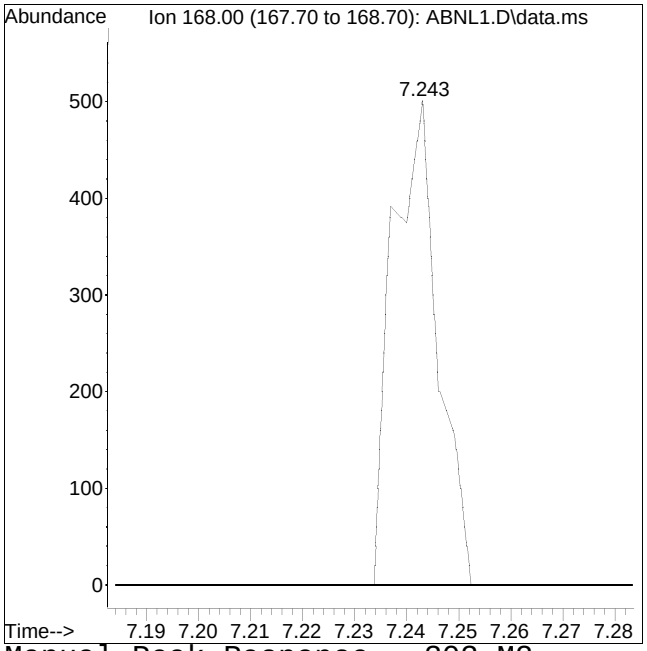
Manual Integration Report

Data Path : I:\8270\Dakota\240618ical\QMethod : FS240618RVT_14D_Dakota.m
Data File : ABNL1.D Operator : Dakota:cmm
Date Inj'd : 6/18/2024 3:23 pm Instrument : Dakota
Sample : IL10,32,,ABNL0.1 Lot# 1078Quant Date : 6/19/2024 4:29 pm

Compound #50: 1,3-Dinitrobenzene



Original Peak Response = 0



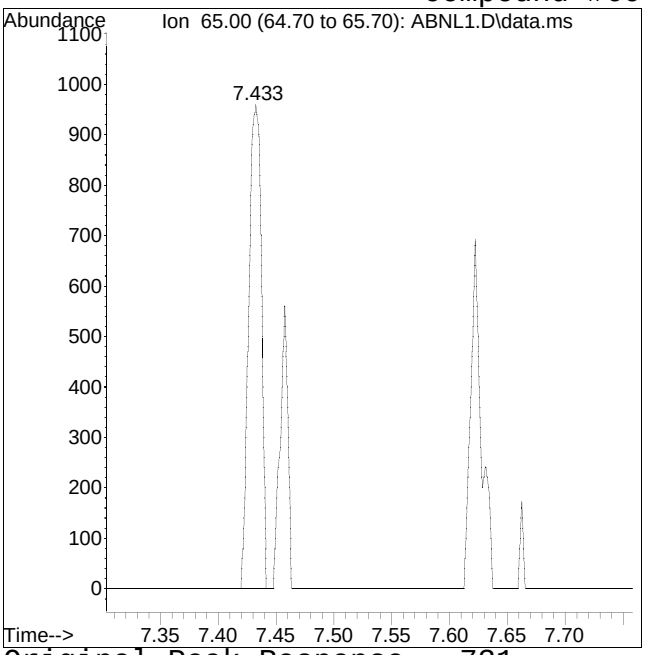
Manual Peak Response = 303 M2

M2 = Peak not found by automatic integration algorithm.

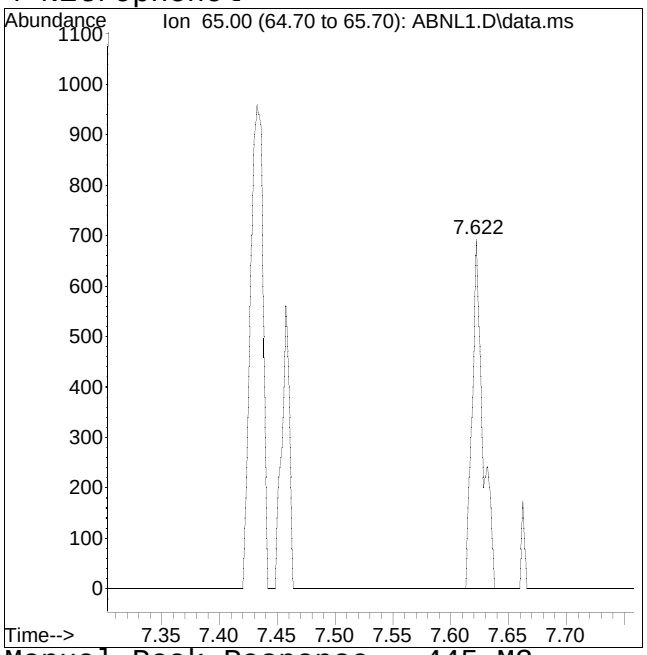
Manual Integration Report

Data Path : I:\8270\Dakota\240618ical\QMethod : FS240618RVT_14D_Dakota.m
Data File : ABNL1.D Operator : Dakota:cmm
Date Inj'd : 6/18/2024 3:23 pm Instrument : Dakota
Sample : IL10,32,,ABNL0.1 Lot# 1078Quant Date : 6/19/2024 4:29 pm

Compound #69: 4-Nitrophenol



Original Peak Response = 731



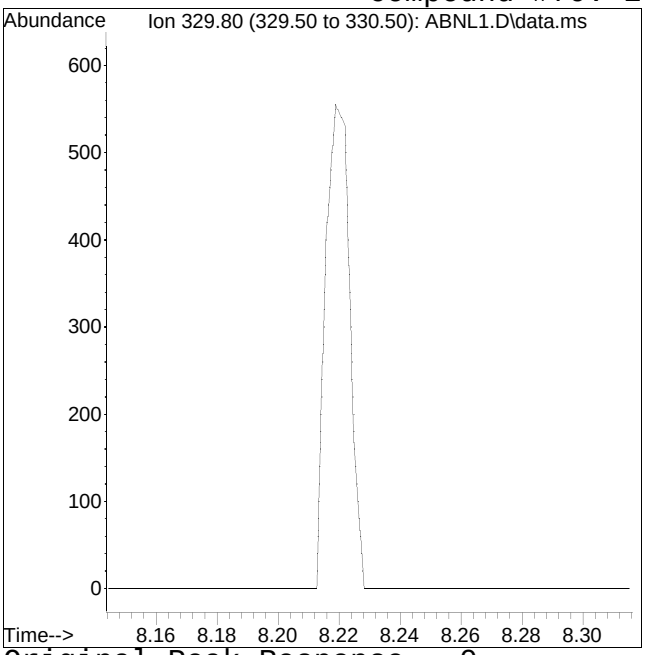
Manual Peak Response = 445 M3

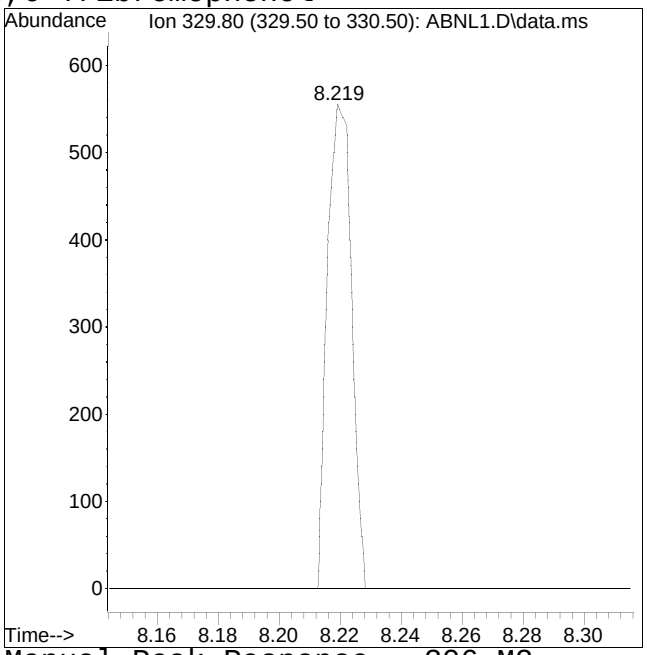
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\8270\Dakota\240618ical\QMethod : FS240618RVT_14D_Dakota.m
Data File : ABNL1.D Operator : Dakota:cmm
Date Inj'd : 6/18/2024 3:23 pm Instrument : Dakota
Sample : IL10,32,,ABNL0.1 Lot# 1078Quant Date : 6/19/2024 4:29 pm

Compound #79: 2,4,6-Tribromophenol



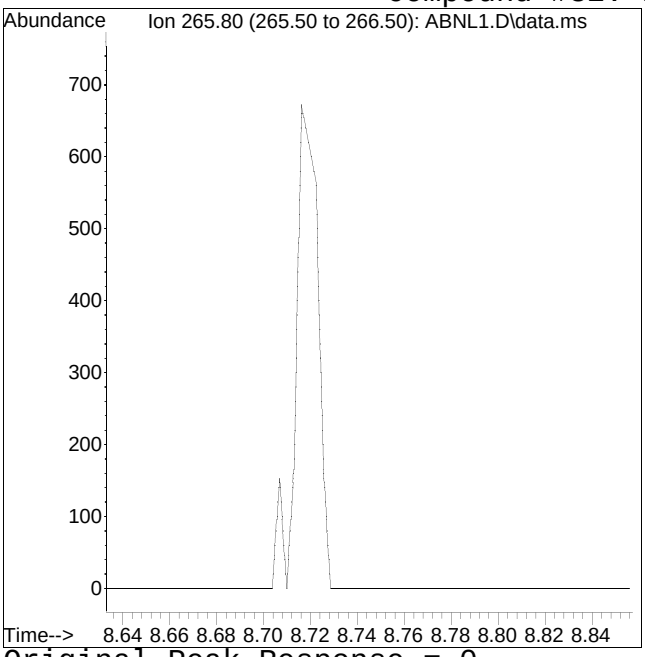


Original Peak Response = 0 Manual Peak Response = 306 M2
M2 = Peak not found by automatic integration algorithm.

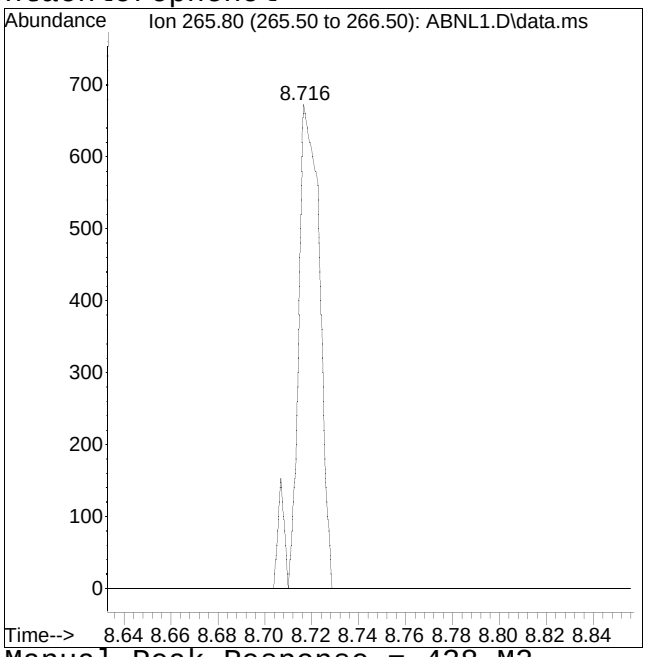
Manual Integration Report

Data Path : I:\8270\Dakota\240618ical\QMethod : FS240618RVT_14D_Dakota.m
Data File : ABNL1.D Operator : Dakota:cmm
Date Inj'd : 6/18/2024 3:23 pm Instrument : Dakota
Sample : IL10,32,,ABNL0.1 Lot# 1078Quant Date : 6/19/2024 4:29 pm

Compound #82: Pentachlorophenol



Original Peak Response = 0



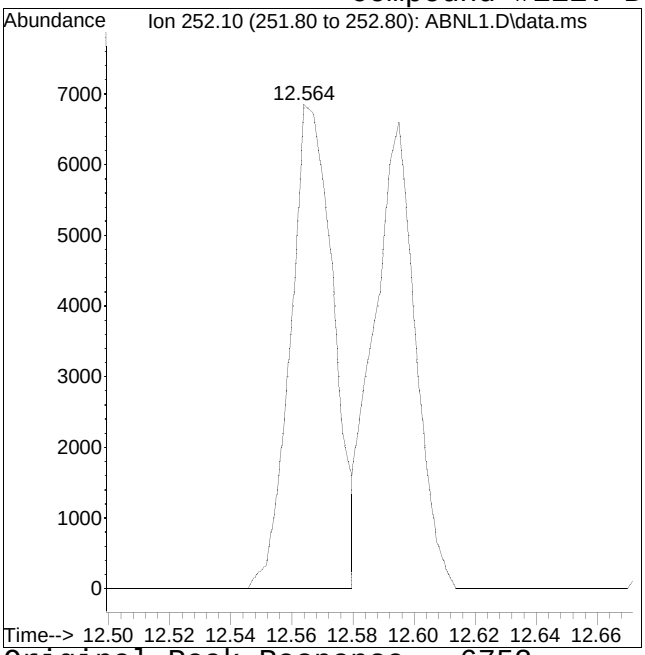
Manual Peak Response = 438 M2

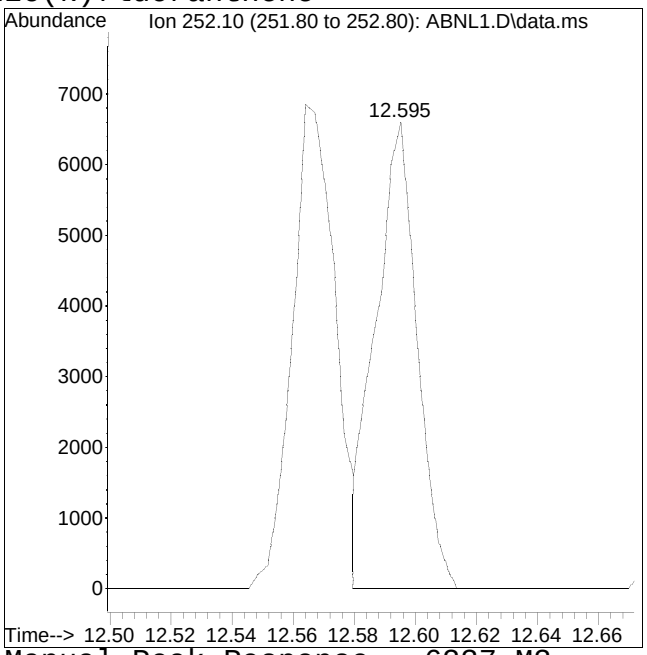
M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

Data Path : I:\8270\Dakota\240618ical\QMethod : FS240618RVT_14D_Dakota.m
Data File : ABNL1.D Operator : Dakota:cmm
Date Inj'd : 6/18/2024 3:23 pm Instrument : Dakota
Sample : IL10,32,,ABNL0.1 Lot# 1078Quant Date : 6/19/2024 4:29 pm

Compound #111: Benzo(k)fluoranthene



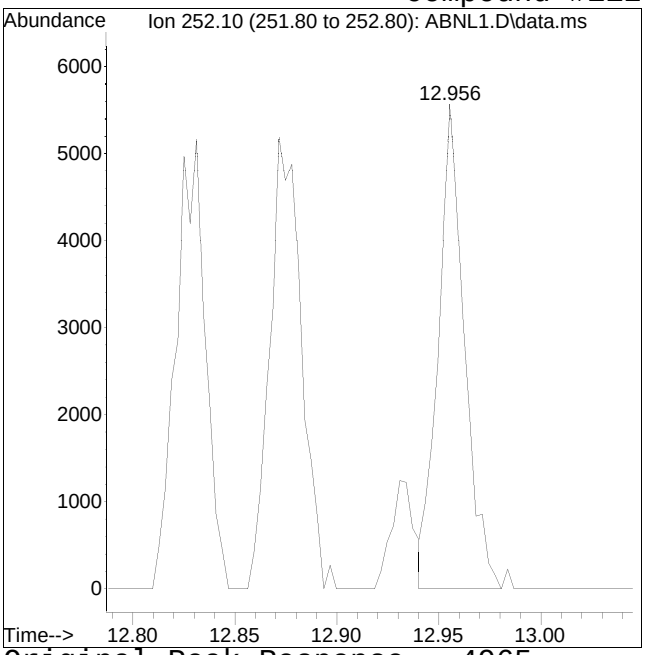


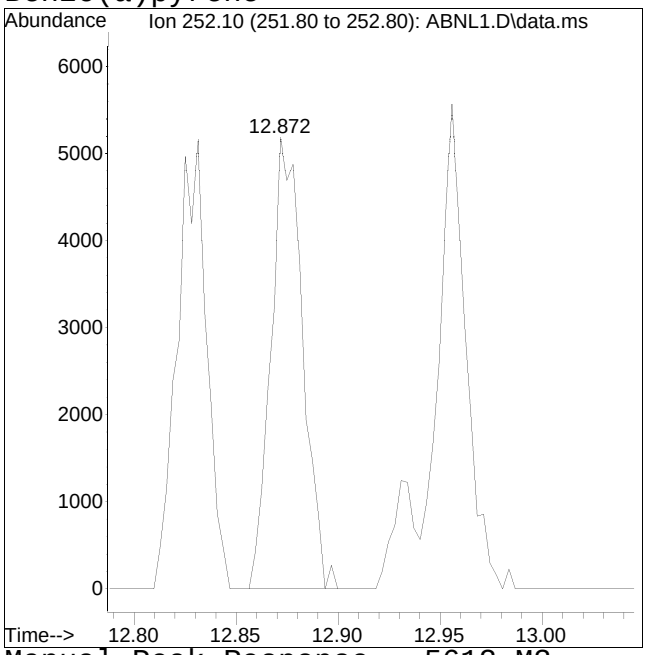
Original Peak Response = 6752 Manual Peak Response = 6237 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\8270\Dakota\240618ical\QMethod : FS240618RVT_14D_Dakota.m
Data File : ABNL1.D Operator : Dakota:cmm
Date Inj'd : 6/18/2024 3:23 pm Instrument : Dakota
Sample : IL10,32,,ABNL0.1 Lot# 1078Quant Date : 6/19/2024 4:29 pm

Compound #112: Benzo(a)pyrene





Original Peak Response = 4965 Manual Peak Response = 5612 M3

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\240618ical\
Data File : AP9L9.D
Acq On : 18 Jun 2024 3:46 pm
Operator : Dakota:cmm
Sample : IL2,32,,AP9L50 Lot# 10787
Misc : WG1938219,,
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jun 19 22:03:50 2024
Quant Method : I:\8270\Dakota\240618ical\FS240618RVT_14D_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Jun 19 16:29:12 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\240618ical\AP9L6.D
Sub List : AP9ical - AP9 ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
27) IS2_1,4-Dichlorobenzen...	4.527	152	30307	4.000	ug/ml	0.00
Standard Area 1 = 30304			Recovery =	100.01%		
55) IS2_Naphthalene-d8	5.760	136	109401	4.000	ug/ml	# 0.00
Standard Area 1 = 110135			Recovery =	99.33%		
83) IS2_Acenaphthene-d10	7.457	164	71282	4.000	ug/ml	0.00
Standard Area 1 = 73667			Recovery =	96.76%		
98) IS2_Phenanthrene-d10	8.881	188	163397	4.000	ug/ml	0.00
Standard Area 1 = 174138			Recovery =	93.83%		
System Monitoring Compounds						
Target Compounds						Qvalue
28) Benzaldehyde	4.091	105	393413	51.605	ug/ml	98
29) Acetophenone	4.931	105	680116	52.042	ug/ml#	79
30) m-Toluidine	5.015	106	661483	50.892	ug/ml	95
31) 2-Chloroaniline	5.372	127	619663	51.265	ug/ml#	93
56) a-Terpineol	5.829	59	378479	53.039	ug/ml#	77
57) 3-Chloroaniline	5.838	65	205125	51.432	ug/ml	92
58) 2,6-Dichlorophenol	5.866	162	503483	49.441	ug/ml#	83
59) 1-chloro-2-nitrobenzene	6.118	111	203908	50.668	ug/ml#	1
60) Caprolactam	6.180	55	198518	53.871	ug/ml#	62
61) 1,2,4,5-Tetrachloroben...	6.631	216	615697	46.832	ug/ml	98
62) Biphenyl	6.923	154	1296874	45.619	ug/ml	96
84) Dichloran	8.592	206	241152	61.173	ug/ml#	56
85) Pentachloronitrobenzene	8.738	237	208287	51.457	ug/ml#	81
99) Diphenamid	9.795	167	1117906	51.572	ug/ml#	77

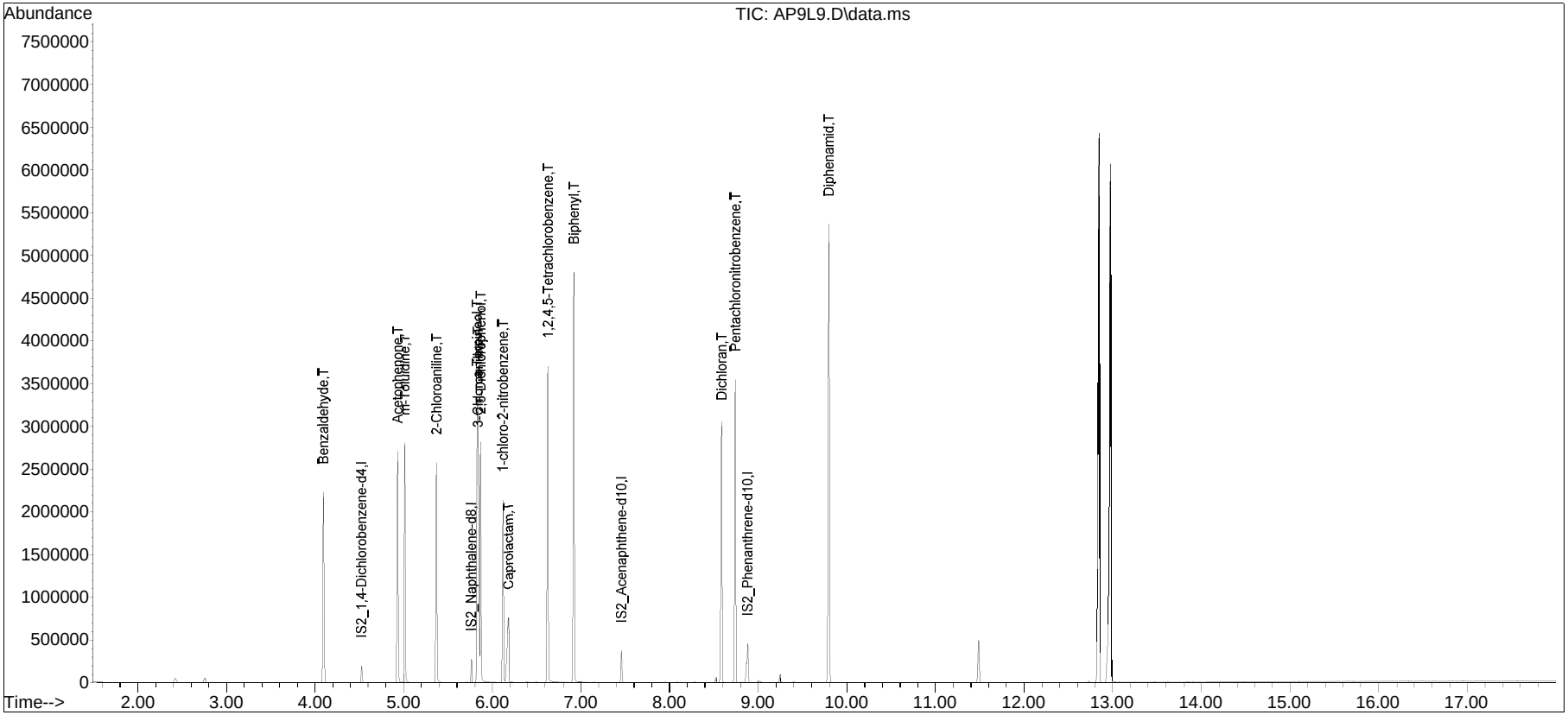
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\240618ical\
Data File : AP9L9.D
Acq On : 18 Jun 2024 3:46 pm
Operator : Dakota:cmm
Sample : IL2,32,,AP9L50 Lot# 10787
Misc : WG1938219,,
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jun 19 22:03:50 2024
Quant Method : I:\8270\Dakota\240618ical\FS240618RVT_14D_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Jun 19 16:29:12 2024
Response via : Initial Calibration

Sub List : AP9ical - AP9 ical sublistcal\AP9L6.D•



Manual Integration Report

Data Path	: I:\8270\Dakota\240618ical\	QMethod	: FS240618RVT_14D_Dakota.m
Data File	: AP9L9.D	Operator	: Dakota:cmm
Date Inj'd	: 6/18/2024 3:46 pm	Instrument	: Dakota
Sample	: IL2,32,,AP9L50 Lot# 10787	Quant Date	: 6/19/2024 4:33 pm

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\240618ical\
Data File : AP9L8.D
Acq On : 18 Jun 2024 4:08 pm
Operator : Dakota:cmm
Sample : IL3,32,,AP9L25 Lot# 10788
Misc : WG1938219,,
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jun 19 22:03:24 2024
Quant Method : I:\8270\Dakota\240618ical\FS240618RVT_14D_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Jun 19 22:03:25 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\240618ical\AP9L6.D
Sub List : AP9ical - AP9 ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
27) IS2_1,4-Dichlorobenzen...	4.527	152	30251	4.000	ug/ml	0.00
Standard Area 1 = 30304			Recovery = 99.83%			
55) IS2_Naphthalene-d8	5.760	136	109951	4.000	ug/ml	# 0.00
Standard Area 1 = 110135			Recovery = 99.83%			
83) IS2_Acenaphthene-d10	7.458	164	72373	4.000	ug/ml	0.00
Standard Area 1 = 73667			Recovery = 98.24%			
98) IS2_Phenanthrene-d10	8.881	188	165994	4.000	ug/ml	0.00
Standard Area 1 = 174138			Recovery = 95.32%			
System Monitoring Compounds						
Target Compounds						Qvalue
28) Benzaldehyde	4.088	105	198785	25.433	ug/ml	99
29) Acetophenone	4.928	105	350493	26.386	ug/ml#	78
30) m-Toluidine	5.011	106	341582	26.836	ug/ml	95
31) 2-Chloroaniline	5.369	127	319145	25.677	ug/ml#	93
56) a-Terpineol	5.823	59	194231	26.542	ug/ml#	76
57) 3-Chloroaniline	5.835	65	105027	25.565	ug/ml	96
58) 2,6-Dichlorophenol	5.863	162	268563	26.117	ug/ml#	83
59) 1-chloro-2-nitrobenzene	6.115	111	106242	24.717	ug/ml#	1
60) Caprolactam	6.165	55	100694	28.237	ug/ml#	59
61) 1,2,4,5-Tetrachloroben...	6.628	216	332947	23.812	ug/ml	97
62) Biphenyl	6.920	154	697616	23.204	ug/ml	97
84) Dichloran	8.586	206	117294	29.331	ug/ml#	57
85) Pentachloronitrobenzene	8.735	237	107897	27.803	ug/ml#	79
99) Diphenamid	9.792	167	584710	27.595	ug/ml#	77

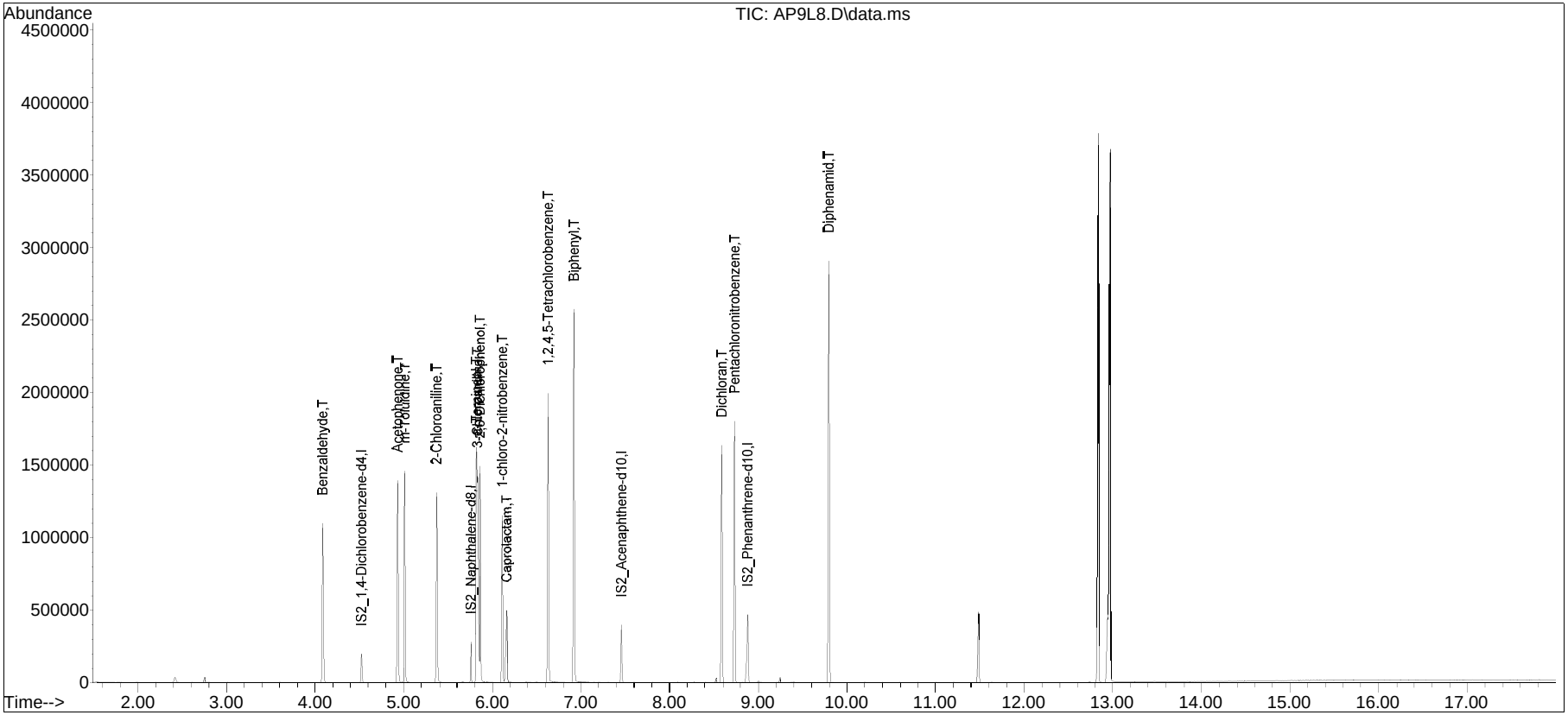
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\240618ical\
Data File : AP9L8.D
Acq On : 18 Jun 2024 4:08 pm
Operator : Dakota:cmm
Sample : IL3,32,,AP9L25 Lot# 10788
Misc : WG1938219,,
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jun 19 22:03:24 2024
Quant Method : I:\8270\Dakota\240618ical\FS240618RVT_14D_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Jun 19 22:03:25 2024
Response via : Initial Calibration

Sub List : AP9ical - AP9 ical sublistcal\AP9L6.D•



Manual Integration Report

Data Path	: I:\8270\Dakota\240618ical\	QMethod	: FS240618RVT_14D_Dakota.m
Data File	: AP9L8.D	Operator	: Dakota:cmm
Date Inj'd	: 6/18/2024 4:08 pm	Instrument	: Dakota
Sample	: IL3,32,,AP9L25 Lot# 10788	Quant Date	: 6/19/2024 10:03 pm

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\240618ical\
Data File : AP9L7.D
Acq On : 18 Jun 2024 4:31 pm
Operator : Dakota:cmm
Sample : IL4,32,,AP9L10 Lot# 10789
Misc : WG1938219,,
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jun 19 22:02:31 2024
Quant Method : I:\8270\Dakota\240618ical\FS240618RVT_14D_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Jun 19 16:29:12 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\240618ical\AP9L6.D
Sub List : AP9ical - AP9 ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
27) IS2_1,4-Dichlorobenzen...	4.527	152	30490	4.000	ug/ml	0.00
Standard Area 1 = 30304			Recovery =	100.61%		
55) IS2_Naphthalene-d8	5.761	136	111776	4.000	ug/ml	0.00
Standard Area 1 = 110135			Recovery =	101.49%		
83) IS2_Acenaphthene-d10	7.458	164	74324	4.000	ug/ml	0.00
Standard Area 1 = 73667			Recovery =	100.89%		
98) IS2_Phenanthrene-d10	8.881	188	173737	4.000	ug/ml	0.00
Standard Area 1 = 174138			Recovery =	99.77%		
System Monitoring Compounds						
Target Compounds						Qvalue
28) Benzaldehyde	4.092	105	79159	10.321	ug/ml	95
29) Acetophenone	4.931	105	140959	10.721	ug/ml#	78
30) m-Toluidine	5.012	106	138228	10.571	ug/ml	96
31) 2-Chloroaniline	5.369	127	128694	10.583	ug/ml#	93
56) a-Terpineol	5.823	59	78144	10.718	ug/ml#	75
57) 3-Chloroaniline	5.835	65	41936	10.291	ug/ml	98
58) 2,6-Dichlorophenol	5.860	162	109676	10.541	ug/ml#	82
59) 1-chloro-2-nitrobenzene	6.115	111	42197	10.263	ug/ml#	1
60) Caprolactam	6.152	55	40585	10.779	ug/ml#	61
61) 1,2,4,5-Tetrachloroben...	6.628	216	136540	10.165	ug/ml#	97
62) Biphenyl	6.920	154	298421	10.274	ug/ml	98
84) Dichloran	8.586	206	46875	11.404	ug/ml#	55
85) Pentachloronitrobenzene	8.735	237	43956	10.415	ug/ml#	79
99) Diphenamid	9.792	167	241652	10.485	ug/ml#	77

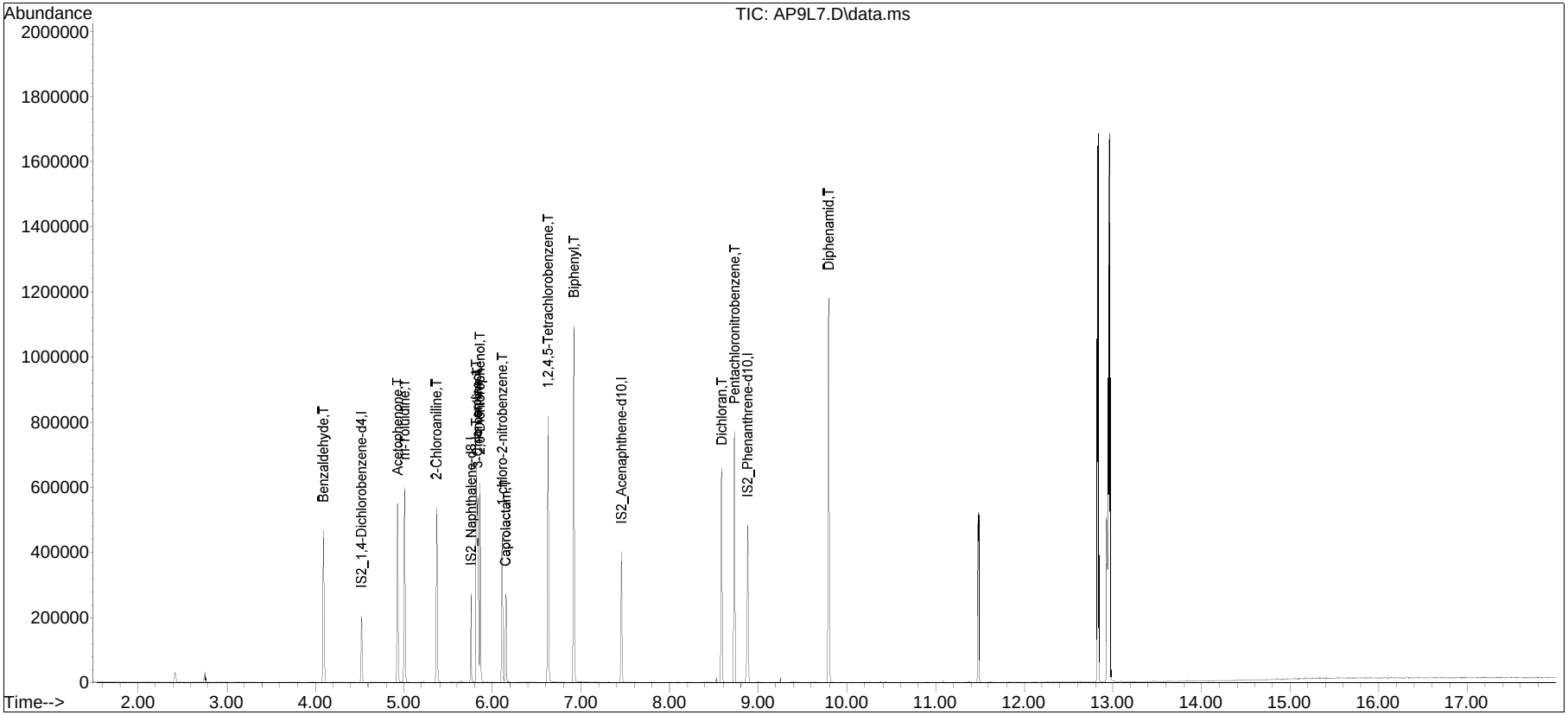
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\240618ical\
Data File : AP9L7.D
Acq On : 18 Jun 2024 4:31 pm
Operator : Dakota:cmm
Sample : IL4,32,,AP9L10 Lot# 10789
Misc : WG1938219,,
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jun 19 22:02:31 2024
Quant Method : I:\8270\Dakota\240618ical\FS240618RVT_14D_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Jun 19 16:29:12 2024
Response via : Initial Calibration

Sub List : AP9ical - AP9 ical sublistcal\AP9L6.D•



Manual Integration Report

Data Path	: I:\8270\Dakota\240618ical\	QMethod	: FS240618RVT_14D_Dakota.m
Data File	: AP9L7.D	Operator	: Dakota:cmm
Date Inj'd	: 6/18/2024 4:31 pm	Instrument	: Dakota
Sample	: IL4,32,,AP9L10 Lot# 10789	Quant Date	: 6/19/2024 4:32 pm

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\240618ical\
Data File : AP9L6.D
Acq On : 18 Jun 2024 4:54 pm
Operator : Dakota:cmm
Sample : IL5,32,,AP9L5 Lot# 10790
Misc : WG1938219,,
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Jun 19 22:01:42 2024
Quant Method : I:\8270\Dakota\240618ical\FS240618RVT_14D_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Jun 19 16:29:12 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\240618ical\AP9L6.D
Sub List : AP9ical - AP9 ical sublist

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
27) IS2_1,4-Dichlorobenzen...	4.527	152	30304	4.000 ug/ml	0.00
Standard Area 1 = 30304			Recovery =	100.00%	
55) IS2_Naphthalene-d8	5.760	136	110135	4.000 ug/ml	0.00
Standard Area 1 = 110135			Recovery =	100.00%	
83) IS2_Acenaphthene-d10	7.457	164	73667	4.000 ug/ml	0.00
Standard Area 1 = 73667			Recovery =	100.00%	
98) IS2_Phenanthrene-d10	8.881	188	174138	4.000 ug/ml	0.00
Standard Area 1 = 174138			Recovery =	100.00%	
System Monitoring Compounds					
Target Compounds					Qvalue
28) Benzaldehyde	4.091	105	38114	5.000 ug/ml	99
29) Acetophenone	4.931	105	65336	5.000 ug/ml#	76
30) m-Toluidine	5.011	106	64982	5.000 ug/ml	93
31) 2-Chloroaniline	5.372	127	60431	5.000 ug/ml#	92
56) a-Terpineol	5.819	59	35919	5.000 ug/ml#	74
57) 3-Chloroaniline	5.835	65	20075	5.000 ug/ml	96
58) 2,6-Dichlorophenol	5.860	162	51259	5.000 ug/ml#	83
59) 1-chloro-2-nitrobenzene	6.115	111	20257	5.000 ug/ml#	1
60) Caprolactam	6.149	55	18549	5.000 ug/ml#	57
61) 1,2,4,5-Tetrachloroben...	6.628	216	66176	5.000 ug/ml#	97
62) Biphenyl	6.920	154	143097	5.000 ug/ml	98
84) Dichloran	8.583	206	20370	5.000 ug/ml#	61
85) Pentachloronitrobenzene	8.732	237	20916	5.000 ug/ml#	79
99) Diphenamid	9.789	167	115507	5.000 ug/ml#	77

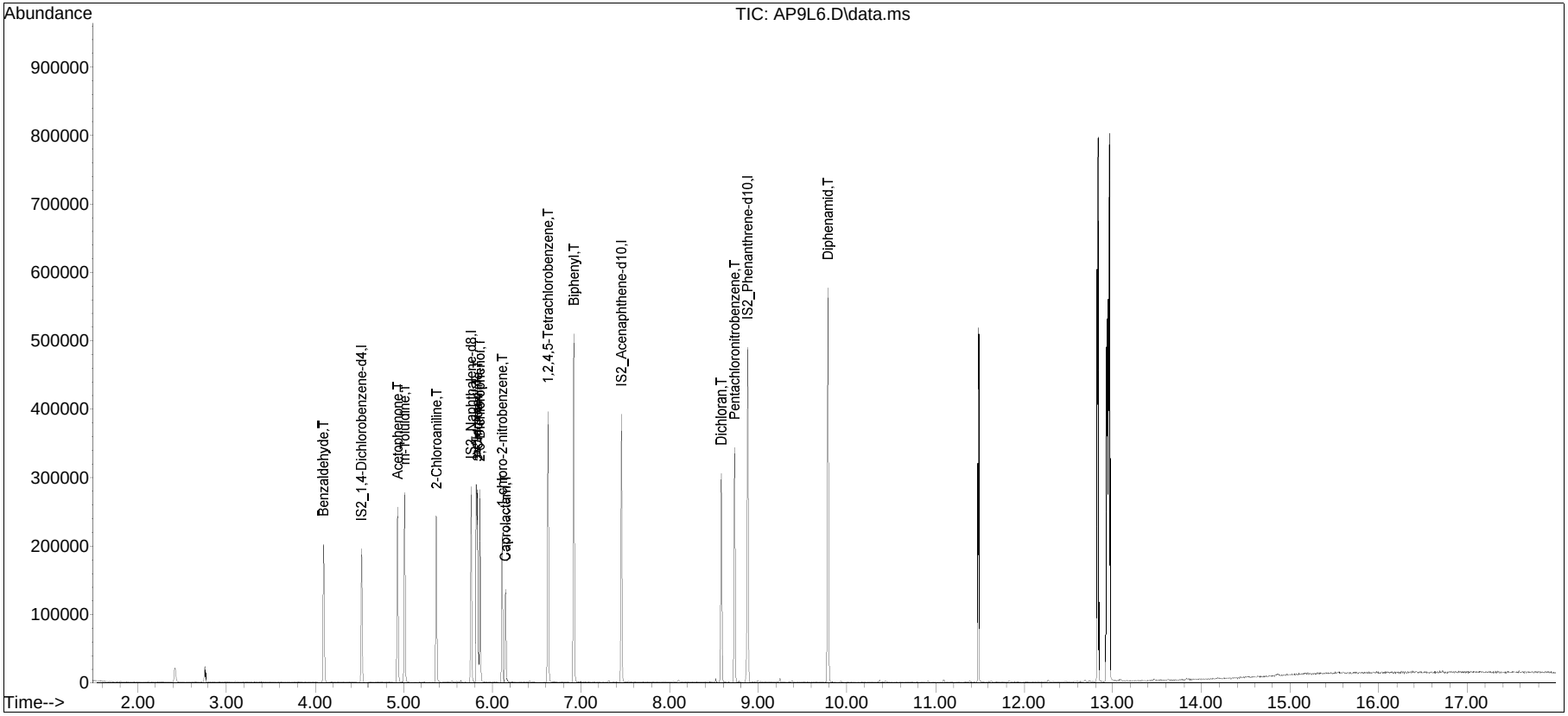
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\240618ical\
Data File : AP9L6.D
Acq On : 18 Jun 2024 4:54 pm
Operator : Dakota:cmm
Sample : IL5,32,,AP9L5 Lot# 10790
Misc : WG1938219,,
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Jun 19 22:01:42 2024
Quant Method : I:\8270\Dakota\240618ical\FS240618RVT_14D_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Jun 19 16:29:12 2024
Response via : Initial Calibration

Sub List : AP9ical - AP9 ical sublistcal\AP9L6.D•



Manual Integration Report

Data Path	: I:\8270\Dakota\240618ical\	QMethod	: FS240618RVT_14D_Dakota.m
Data File	: AP9L6.D	Operator	: Dakota:cmm
Date Inj'd	: 6/18/2024 4:54 pm	Instrument	: Dakota
Sample	: IL5,32,,AP9L5 Lot# 10790	Quant Date	: 6/19/2024 4:32 pm

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\240618ical\
Data File : AP9L5.D
Acq On : 18 Jun 2024 5:16 pm
Operator : Dakota:cmm
Sample : IL6,32,,AP9L2.5 Lot# 10791
Misc : WG1938219,,
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Jun 19 22:01:00 2024
Quant Method : I:\8270\Dakota\240618ical\FS240618RVT_14D_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Jun 19 16:29:12 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\240618ical\AP9L6.D
Sub List : AP9ical - AP9 ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
27) IS2_1,4-Dichlorobenzen...	4.527	152	30125	4.000	ug/ml	0.00
Standard Area 1 = 30304			Recovery = 99.41%			
55) IS2_Naphthalene-d8	5.760	136	106078	4.000	ug/ml	0.00
Standard Area 1 = 110135			Recovery = 96.32%			
83) IS2_Acenaphthene-d10	7.457	164	70993	4.000	ug/ml	0.00
Standard Area 1 = 73667			Recovery = 96.37%			
98) IS2_Phenanthrene-d10	8.881	188	172001	4.000	ug/ml	0.00
Standard Area 1 = 174138			Recovery = 98.77%			
System Monitoring Compounds						
Target Compounds						Qvalue
28) Benzaldehyde	4.095	105	18715	2.470	ug/ml	98
29) Acetophenone	4.931	105	31998	2.463	ug/ml#	79
30) m-Toluidine	5.015	106	31612	2.447	ug/ml	94
31) 2-Chloroaniline	5.372	127	29492	2.455	ug/ml#	93
56) a-Terpineol	5.820	59	17559	2.538	ug/ml#	77
57) 3-Chloroaniline	5.835	65	9733	2.517	ug/ml	98
58) 2,6-Dichlorophenol	5.860	162	24238	2.455	ug/ml#	81
59) 1-chloro-2-nitrobenzene	6.112	111	9932	2.545	ug/ml#	1
60) Caprolactam	6.146	55	9102	2.547	ug/ml#	60
61) 1,2,4,5-Tetrachloroben...	6.628	216	32815	2.574	ug/ml#	93
62) Biphenyl	6.920	154	72386	2.626	ug/ml	99
84) Dichloran	8.583	206	9157	2.332	ug/ml#	60
85) Pentachloronitrobenzene	8.732	237	9421	2.337	ug/ml#	85
99) Diphenamid	9.789	167	54534	2.390	ug/ml#	76

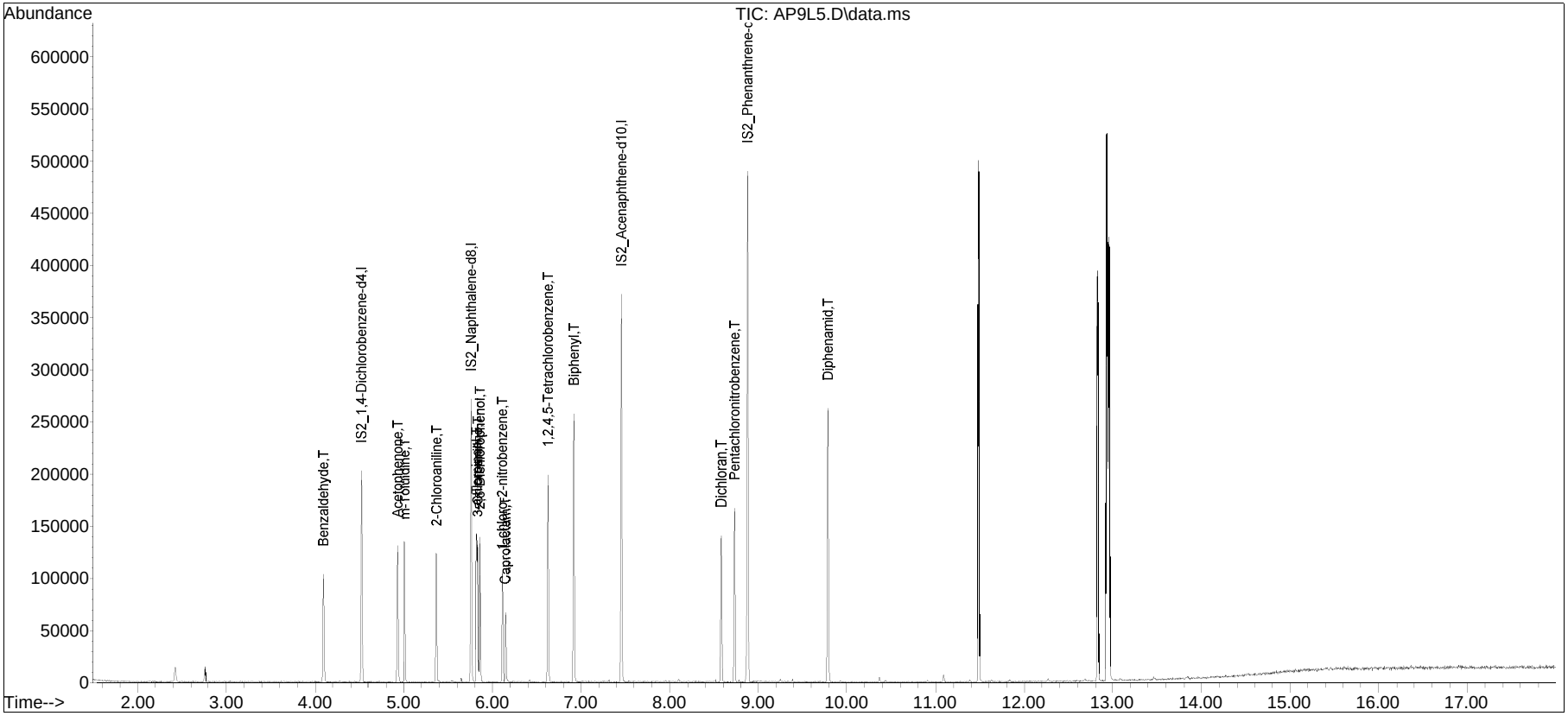
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\240618ical\
Data File : AP9L5.D
Acq On : 18 Jun 2024 5:16 pm
Operator : Dakota:cmm
Sample : IL6,32,,AP9L2.5 Lot# 10791
Misc : WG1938219,,
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Jun 19 22:01:00 2024
Quant Method : I:\8270\Dakota\240618ical\FS240618RVT_14D_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Jun 19 16:29:12 2024
Response via : Initial Calibration

Sub List : AP9ical - AP9 ical sublistcal\AP9L6.D•



Manual Integration Report

Data Path	: I:\8270\Dakota\240618ical\	QMethod	: FS240618RVT_14D_Dakota.m
Data File	: AP9L5.D	Operator	: Dakota:cmm
Date Inj'd	: 6/18/2024 5:16 pm	Instrument	: Dakota
Sample	: IL6,32,,AP9L2.5 Lot# 10791	Quant Date	: 6/19/2024 4:32 pm

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\240618ical\
Data File : AP9L4.D
Acq On : 18 Jun 2024 5:39 pm
Operator : Dakota:cmm
Sample : IL7,32,,AP9L1 Lot# 10792
Misc : WG1938219,,
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Jun 19 22:00:27 2024
Quant Method : I:\8270\Dakota\240618ical\FS240618RVT_14D_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Jun 19 16:29:12 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\240618ical\AP9L6.D
Sub List : AP9ical - AP9 ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
27) IS2_1,4-Dichlorobenzen...	4.527	152	27819	4.000	ug/ml	0.00
Standard Area 1 = 30304			Recovery = 91.80%			
55) IS2_Naphthalene-d8	5.761	136	101756	4.000	ug/ml	0.00
Standard Area 1 = 110135			Recovery = 92.39%			
83) IS2_Acenaphthene-d10	7.458	164	67416	4.000	ug/ml	0.00
Standard Area 1 = 73667			Recovery = 91.51%			
98) IS2_Phenanthrene-d10	8.881	188	161837	4.000	ug/ml	0.00
Standard Area 1 = 174138			Recovery = 92.94%			
System Monitoring Compounds						
Target Compounds						Qvalue
28) Benzaldehyde	4.095	105	7476	1.068	ug/ml	98
29) Acetophenone	4.934	105	11981	0.999	ug/ml#	79
30) m-Toluidine	5.012	106	12277	1.029	ug/ml	89
31) 2-Chloroaniline	5.372	127	11714	1.056	ug/ml#	90
56) a-Terpineol	5.823	59	6585	0.992	ug/ml#	62
57) 3-Chloroaniline	5.832	65	3772	1.017	ug/ml	97
58) 2,6-Dichlorophenol	5.860	162	9615	1.015	ug/ml#	83
59) 1-chloro-2-nitrobenzene	6.112	111	3885	1.038	ug/ml#	1
60) Caprolactam	6.146	55	3283	0.958	ug/ml#	72
61) 1,2,4,5-Tetrachloroben...	6.628	216	12723	1.040	ug/ml	97
62) Biphenyl	6.920	154	28054	1.061	ug/ml	99
84) Dichloran	8.583	206	3442	0.923	ug/ml#	57
85) Pentachloronitrobenzene	8.735	237	3439	0.898	ug/ml#	80
99) Diphenamid	9.789	167	19381	0.903	ug/ml#	76

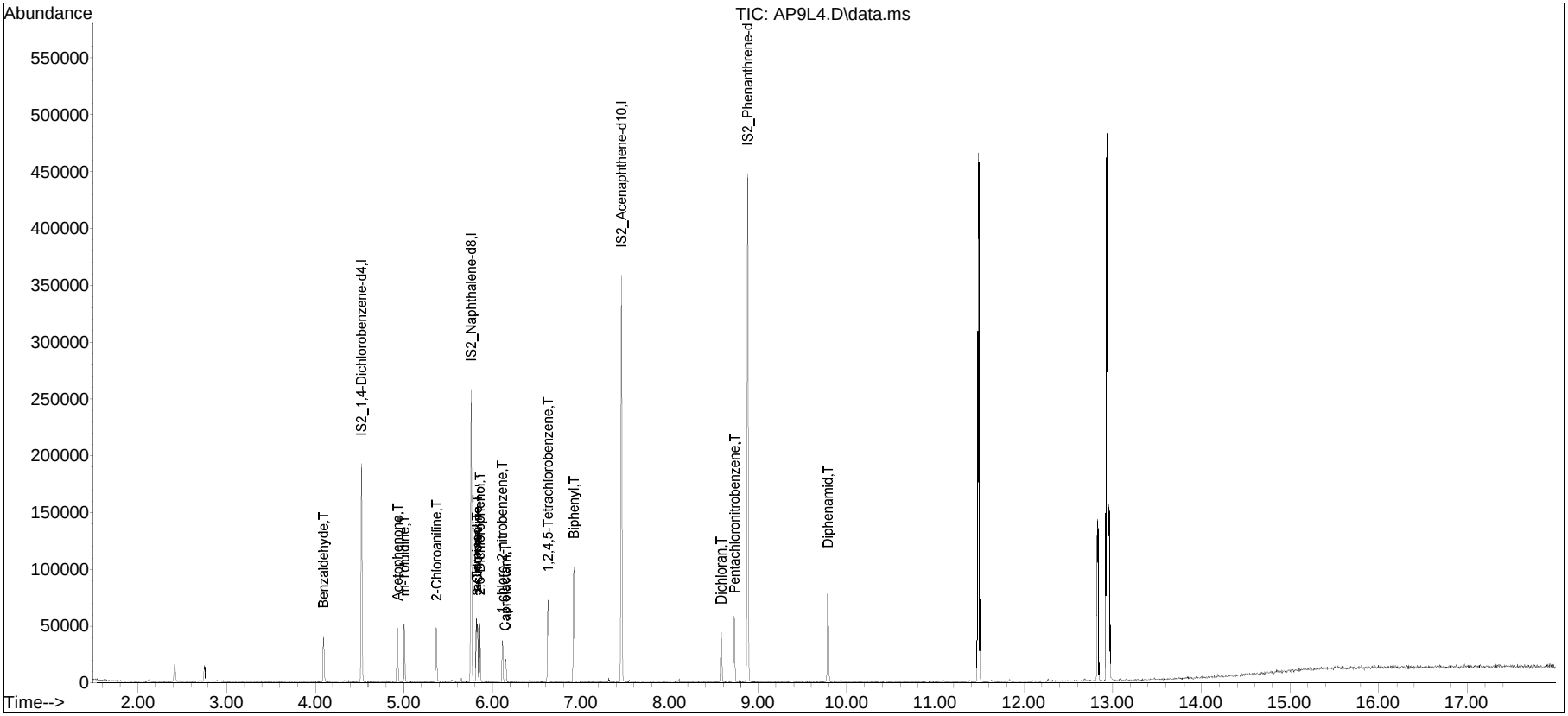
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\240618ical\
Data File : AP9L4.D
Acq On : 18 Jun 2024 5:39 pm
Operator : Dakota:cmm
Sample : IL7,32,,AP9L1 Lot# 10792
Misc : WG1938219,,
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Jun 19 22:00:27 2024
Quant Method : I:\8270\Dakota\240618ical\FS240618RVT_14D_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Jun 19 16:29:12 2024
Response via : Initial Calibration

Sub List : AP9ical - AP9 ical sublistcal\AP9L6.D•



Manual Integration Report

Data Path	: I:\8270\Dakota\240618ical\	QMethod	: FS240618RVT_14D_Dakota.m
Data File	: AP9L4.D	Operator	: Dakota:cmm
Date Inj'd	: 6/18/2024 5:39 pm	Instrument	: Dakota
Sample	: IL7,32,,AP9L1 Lot# 10792	Quant Date	: 6/19/2024 4:32 pm

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\240618ical\
Data File : AP9L3.D
Acq On : 18 Jun 2024 6:02 pm
Operator : Dakota:cmm
Sample : IL8,32,,AP9L0.5 Lot# 10793
Misc : WG1938219,,
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Jun 19 21:59:57 2024
Quant Method : I:\8270\Dakota\240618ical\FS240618RVT_14D_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Jun 19 16:29:12 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\240618ical\AP9L6.D
Sub List : AP9ical - AP9 ical sublist

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
27) IS2_1,4-Dichlorobenzen...	4.526	152	29400	4.000	ug/ml		0.00
Standard Area 1 = 30304			Recovery = 97.02%				
55) IS2_Naphthalene-d8	5.760	136	104451	4.000	ug/ml	#	0.00
Standard Area 1 = 110135			Recovery = 94.84%				
83) IS2_Acenaphthene-d10	7.457	164	68666	4.000	ug/ml		0.00
Standard Area 1 = 73667			Recovery = 93.21%				
98) IS2_Phenanthrene-d10	8.881	188	170936	4.000	ug/ml		0.00
Standard Area 1 = 174138			Recovery = 98.16%				
System Monitoring Compounds							
Target Compounds							Qvalue
28) Benzaldehyde	4.094	105	3698	0.500	ug/ml		92
29) Acetophenone	4.934	105	6576	0.519	ug/ml	#	77
30) m-Toluidine	5.014	106	6234	0.494	ug/ml		94
31) 2-Chloroaniline	5.369	127	6184	0.527	ug/ml	#	93
56) a-Terpineol	5.819	59	3630	0.533	ug/ml	#	71
57) 3-Chloroaniline	5.835	65	2240	0.588	ug/ml		79
58) 2,6-Dichlorophenol	5.860	162	5098	0.524	ug/ml	#	79
59) 1-chloro-2-nitrobenzene	6.115	111	2175	0.566	ug/ml	#	1
60) Caprolactam	6.149	55	1512	0.430	ug/ml	#	59
61) 1,2,4,5-Tetrachloroben...	6.628	216	6716	0.535	ug/ml		97
62) Biphenyl	6.920	154	14068	0.518	ug/ml		96
84) Dichloran	8.579	206	1860	0.490	ug/ml	#	55
85) Pentachloronitrobenzene	8.732	237	1683	0.432	ug/ml	#	80
99) Diphenamid	9.789	167	10978	0.484	ug/ml	#	73

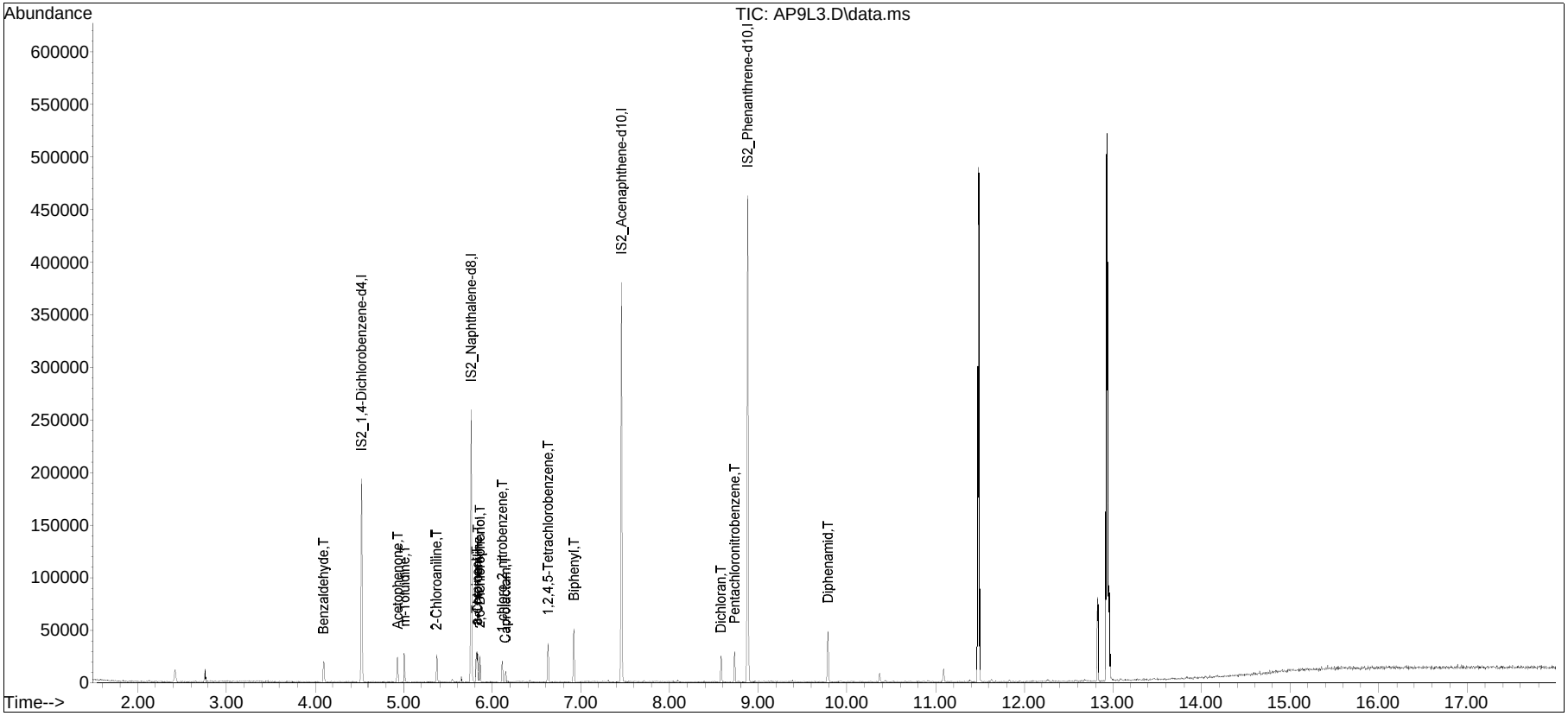
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\240618ical\
Data File : AP9L3.D
Acq On : 18 Jun 2024 6:02 pm
Operator : Dakota:cmm
Sample : IL8,32,,AP9L0.5 Lot# 10793
Misc : WG1938219,,
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Jun 19 21:59:57 2024
Quant Method : I:\8270\Dakota\240618ical\FS240618RVT_14D_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Jun 19 16:29:12 2024
Response via : Initial Calibration

Sub List : AP9ical - AP9 ical sublistcal\AP9L6.D•



Manual Integration Report

Data Path	: I:\8270\Dakota\240618ical\	QMethod	: FS240618RVT_14D_Dakota.m
Data File	: AP9L3.D	Operator	: Dakota:cmm
Date Inj'd	: 6/18/2024 6:02 pm	Instrument	: Dakota
Sample	: IL8,32,,AP9L0.5 Lot# 10793	Quant Date	: 6/19/2024 4:32 pm

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\240618ical\
Data File : AP9L2.D
Acq On : 18 Jun 2024 6:24 pm
Operator : Dakota:cmm
Sample : IL9,32,,AP9L0.2 Lot# 10794
Misc : WG1938219,,
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Jun 19 21:59:18 2024
Quant Method : I:\8270\Dakota\240618ical\FS240618RVT_14D_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Jun 19 16:29:12 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\240618ical\AP9L6.D
Sub List : AP9ical - AP9 ical sublist

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
27) IS2_1,4-Dichlorobenzen...	4.527	152	29817	4.000	ug/ml		0.00
Standard Area 1 = 30304			Recovery = 98.39%				
55) IS2_Naphthalene-d8	5.760	136	104745	4.000	ug/ml	#	0.00
Standard Area 1 = 110135			Recovery = 95.11%				
83) IS2_Acenaphthene-d10	7.458	164	69366	4.000	ug/ml		0.00
Standard Area 1 = 73667			Recovery = 94.16%				
98) IS2_Phenanthrene-d10	8.881	188	168769	4.000	ug/ml		0.00
Standard Area 1 = 174138			Recovery = 96.92%				
System Monitoring Compounds							
Target Compounds							Qvalue
28) Benzaldehyde	4.101	105	1460	0.195	ug/ml	#	75
29) Acetophenone	4.937	105	2749	0.214	ug/ml	#	65
30) m-Toluidine	5.015	106	2558	0.200	ug/ml	#	85
31) 2-Chloroaniline	5.372	127	2568	0.216	ug/ml	#	92
56) a-Terpineol	5.820	59	1448	0.212	ug/ml	#	73
57) 3-Chloroaniline	5.832	65	783	0.205	ug/ml		92
58) 2,6-Dichlorophenol	5.860	162	1775	0.182	ug/ml	#	76
59) 1-chloro-2-nitrobenzene	6.115	111	855	0.222	ug/ml	#	1
60) Caprolactam	6.158	55	609	0.173	ug/ml	#	43
61) 1,2,4,5-Tetrachloroben...	6.628	216	2850	0.226	ug/ml		97
62) Biphenyl	6.917	154	6156	0.226	ug/ml		98
84) Dichloran	8.576	206	630	0.164	ug/ml	#	60
85) Pentachloronitrobenzene	8.735	237	731	0.186	ug/ml	#	7
99) Diphenamid	9.789	167	4054	0.181	ug/ml	#	75

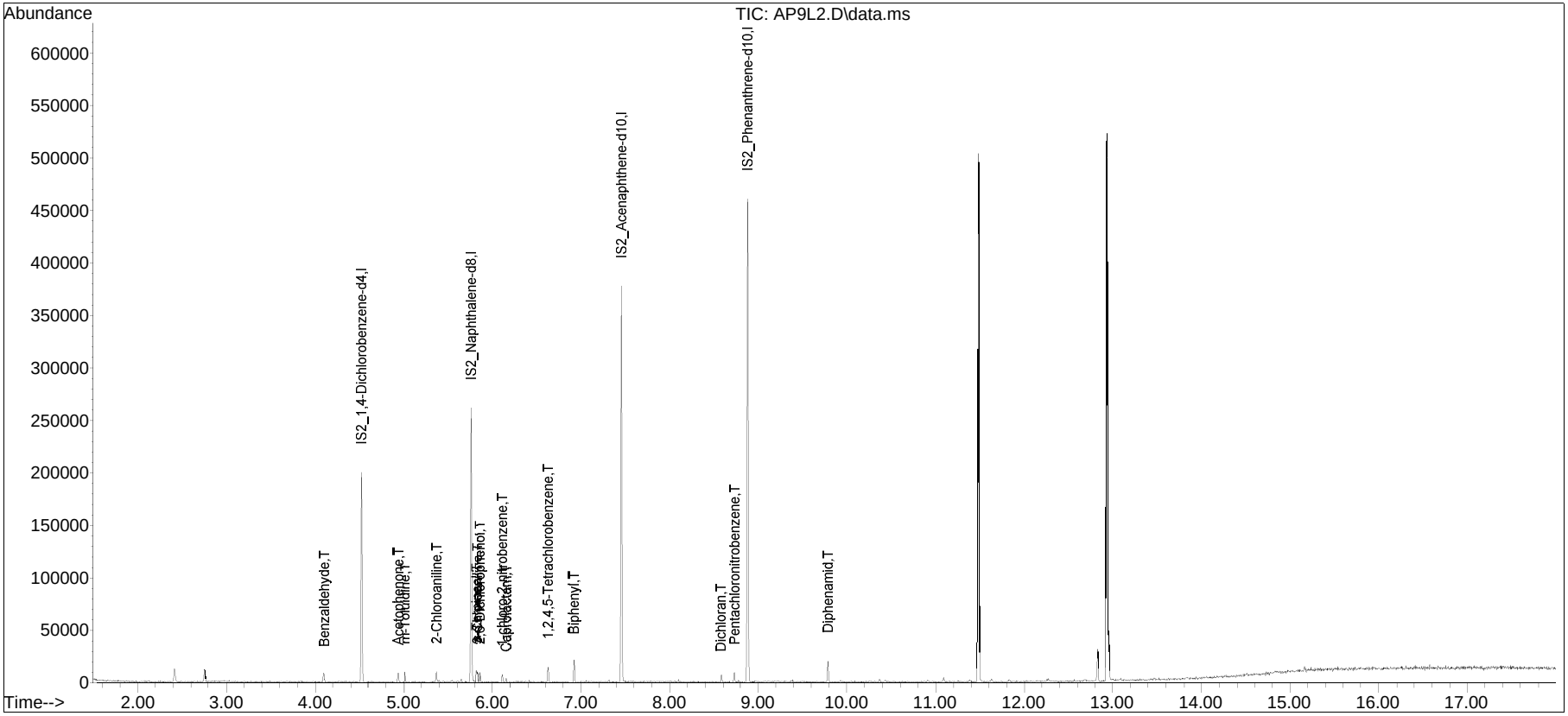
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\240618ical\
Data File : AP9L2.D
Acq On : 18 Jun 2024 6:24 pm
Operator : Dakota:cmm
Sample : IL9,32,,AP9L0.2 Lot# 10794
Misc : WG1938219,,
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Jun 19 21:59:18 2024
Quant Method : I:\8270\Dakota\240618ical\FS240618RVT_14D_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Jun 19 16:29:12 2024
Response via : Initial Calibration

Sub List : AP9ical - AP9 ical sublistcal\AP9L6.D•



Manual Integration Report

Data Path	: I:\8270\Dakota\240618ical\	QMethod	: FS240618RVT_14D_Dakota.m
Data File	: AP9L2.D	Operator	: Dakota:cmm
Date Inj'd	: 6/18/2024 6:24 pm	Instrument	: Dakota
Sample	: IL9,32,,AP9L0.2 Lot# 10794	Quant Date	: 6/19/2024 4:32 pm

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\240618ical\
Data File : AP9L1.D
Acq On : 18 Jun 2024 6:47 pm
Operator : Dakota:cmm
Sample : IL10,32,,AP9L0.1 Lot# 10795
Misc : WG1938219,,
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Jun 19 21:58:11 2024
Quant Method : I:\8270\Dakota\240618ical\FS240618RVT_14D_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Jun 19 16:29:12 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\240618ical\AP9L6.D
Sub List : AP9ical - AP9 ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
27) IS2_1,4-Dichlorobenzen...	4.526	152	28965	4.000	ug/ml	0.00
Standard Area 1 = 30304			Recovery = 95.58%			
55) IS2_Naphthalene-d8	5.760	136	105546	4.000	ug/ml	0.00
Standard Area 1 = 110135			Recovery = 95.83%			
83) IS2_Acenaphthene-d10	7.457	164	70572	4.000	ug/ml	0.00
Standard Area 1 = 73667			Recovery = 95.80%			
98) IS2_Phenanthrene-d10	8.881	188	170228	4.000	ug/ml	0.00
Standard Area 1 = 174138			Recovery = 97.75%			
System Monitoring Compounds						
Target Compounds						Qvalue
28) Benzaldehyde	4.097	105	822	0.113	ug/ml	93
29) Acetophenone	4.930	105	1206	0.097	ug/ml#	39
30) m-Toluidine	5.011	106	1011	0.081	ug/ml#	87
31) 2-Chloroaniline	5.372	127	1133	0.098	ug/ml#	42
56) a-Terpineol	5.819	59	646	0.094	ug/ml#	32
57) 3-Chloroaniline	5.838	65	354M2	0.092	ug/ml	
58) 2,6-Dichlorophenol	5.860	162	1005	0.102	ug/ml#	51
59) 1-chloro-2-nitrobenzene	6.115	111	433M2	0.112	ug/ml	
60) Caprolactam	0.000		0	N.D.		
61) 1,2,4,5-Tetrachloroben...	6.624	216	1419	0.112	ug/ml#	84
62) Biphenyl	6.920	154	2906	0.106	ug/ml#	95
84) Dichloran	8.582	206	284M2	0.073	ug/ml	
85) Pentachloronitrobenzene	0.000		0	N.D.		
99) Diphenamid	9.788	167	2156	0.095	ug/ml#	70

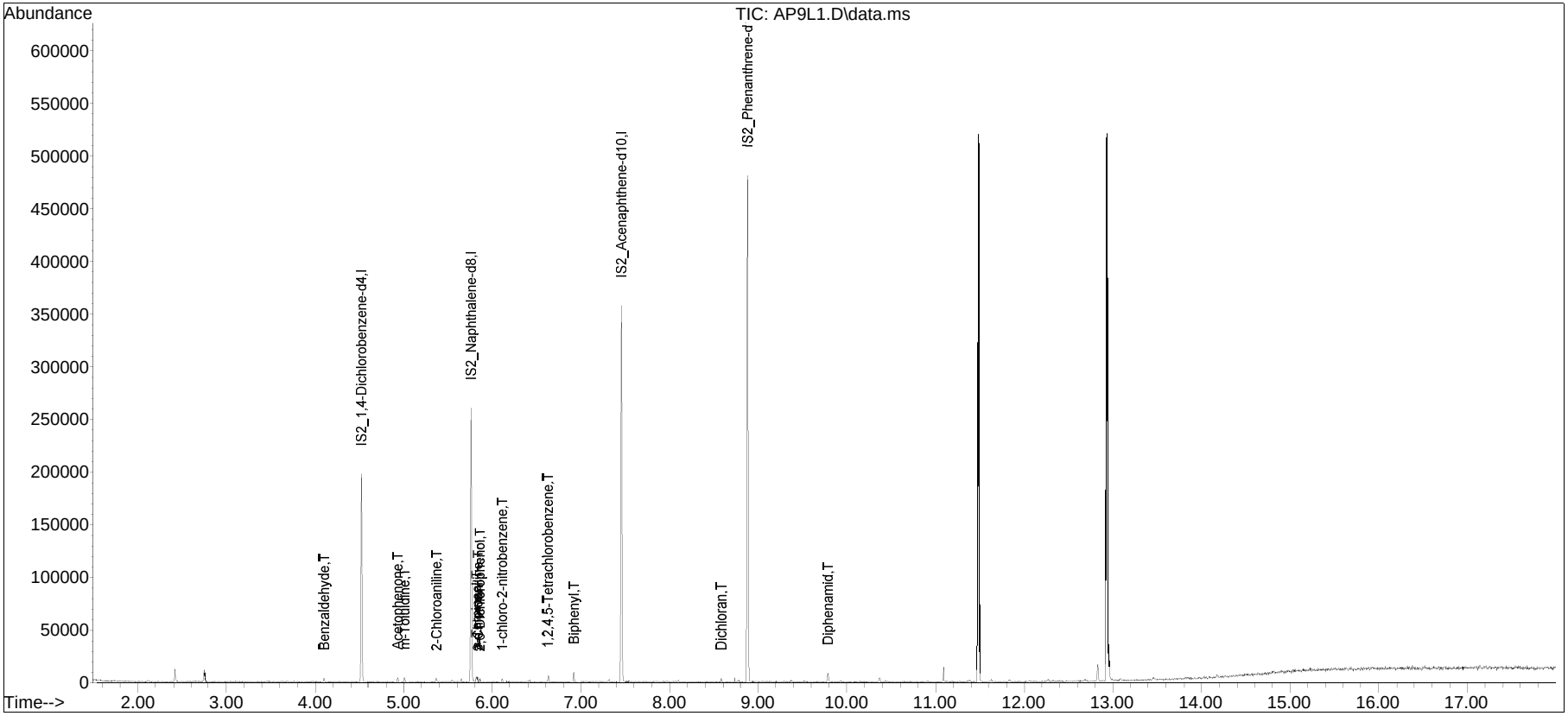
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\240618ical\
Data File : AP9L1.D
Acq On : 18 Jun 2024 6:47 pm
Operator : Dakota:cmm
Sample : IL10,32,,AP9L0.1 Lot# 10795
Misc : WG1938219,,
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Jun 19 21:58:11 2024
Quant Method : I:\8270\Dakota\240618ical\FS240618RVT_14D_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Jun 19 16:29:12 2024
Response via : Initial Calibration

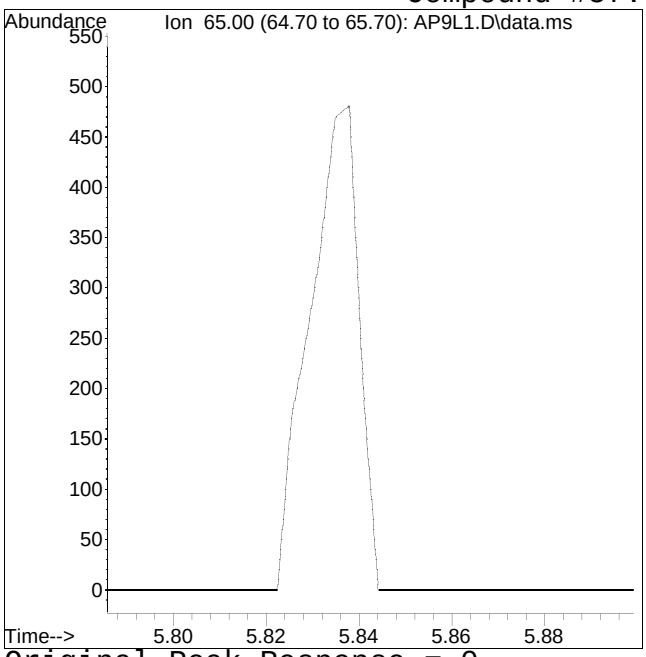
Sub List : AP9ical - AP9 ical sublistcal\AP9L6.D•



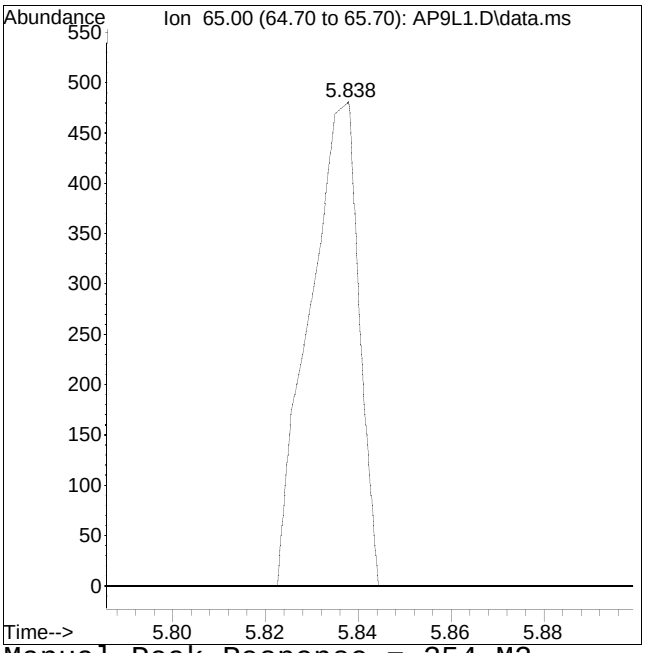
Manual Integration Report

Data Path : I:\8270\Dakota\240618ical\QMethod : FS240618RVT_14D_Dakota.m
Data File : AP9L1.D Operator : Dakota:cmm
Date Inj'd : 6/18/2024 6:47 pm Instrument : Dakota
Sample : IL10,32,,AP9L0.1 Lot# 1079Quant Date : 6/19/2024 4:32 pm

Compound #57: 3-Chloroaniline



Original Peak Response = 0



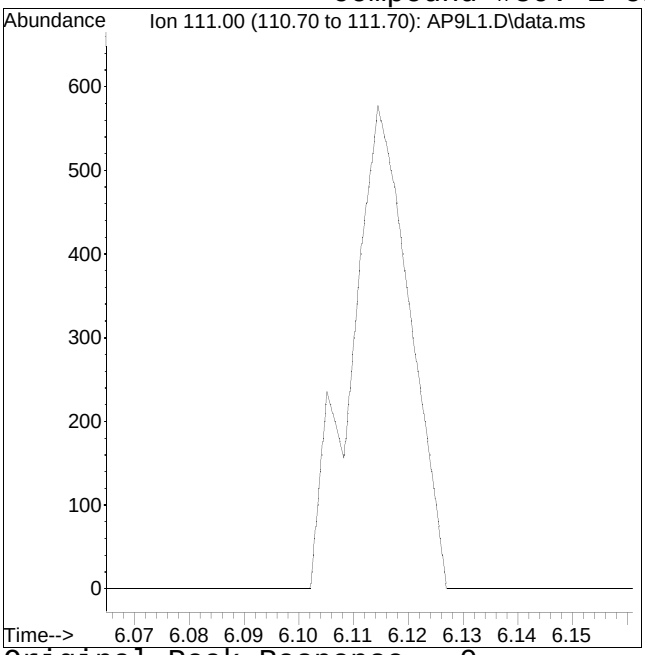
Manual Peak Response = 354 M2

M2 = Peak not found by automatic integration algorithm.

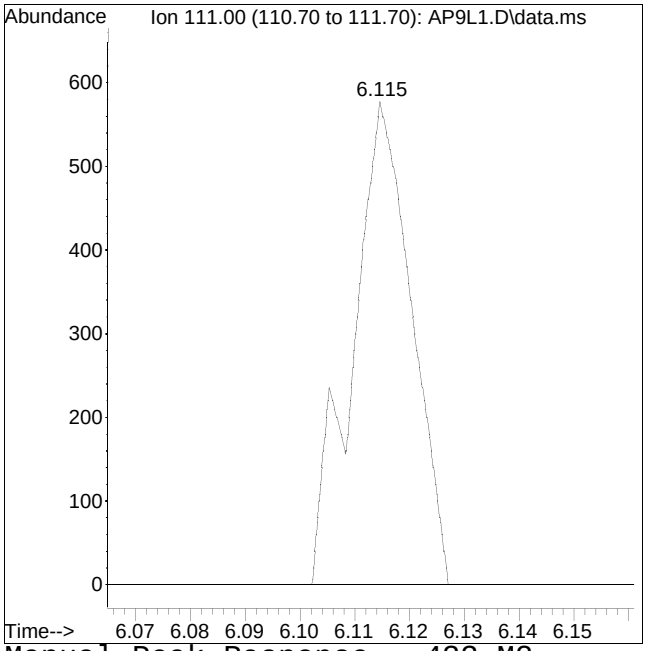
Manual Integration Report

Data Path : I:\8270\Dakota\240618ical\QMethod : FS240618RVT_14D_Dakota.m
Data File : AP9L1.D Operator : Dakota:cmm
Date Inj'd : 6/18/2024 6:47 pm Instrument : Dakota
Sample : IL10,32,,AP9L0.1 Lot# 1079Quant Date : 6/19/2024 4:32 pm

Compound #59: 1-chloro-2-nitrobenzene



Original Peak Response = 0



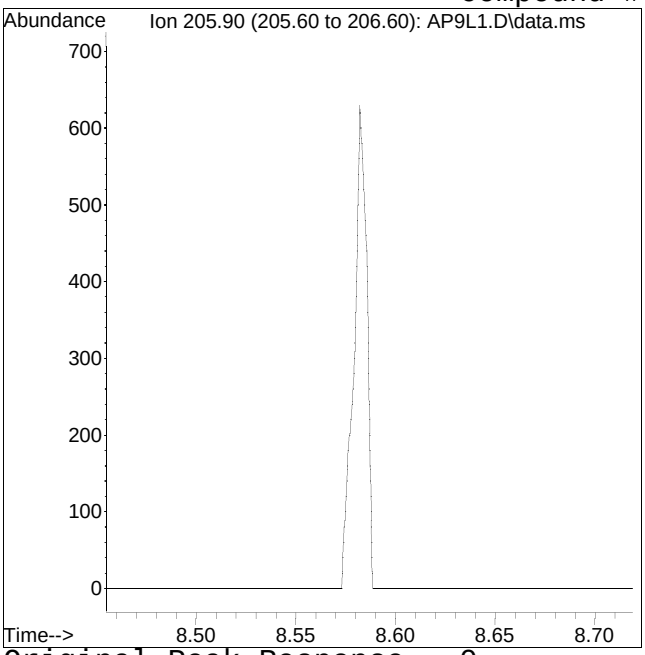
Manual Peak Response = 433 M2

M2 = Peak not found by automatic integration algorithm.

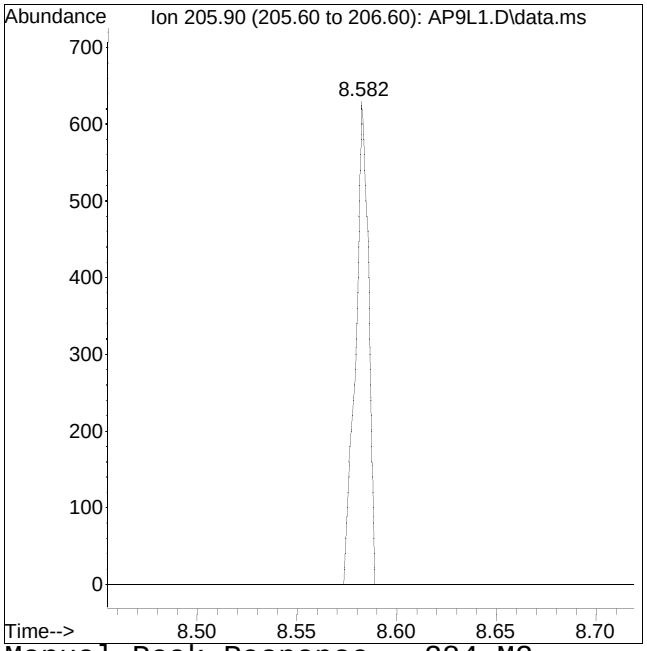
Manual Integration Report

Data Path : I:\8270\Dakota\240618ical\QMethod : FS240618RVT_14D_Dakota.m
Data File : AP9L1.D Operator : Dakota:cmm
Date Inj'd : 6/18/2024 6:47 pm Instrument : Dakota
Sample : IL10,32,,AP9L0.1 Lot# 1079Quant Date : 6/19/2024 4:32 pm

Compound #84: Dichloran



Original Peak Response = 0



Manual Peak Response = 284 M2

M2 = Peak not found by automatic integration algorithm.

Evaluate Continuing Calibration Report

Data Path : I:\8270\Dakota\240618ical\
Data File : ABNICV.D
Acq On : 18 Jun 2024 7:10 pm
Operator : Dakota:cmm
Sample : CQICV1,32,,ABNICV Lot# 10805
Misc : WG1938219,,
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Jun 19 21:02:20 2024
Quant Method : I:\8270\Dakota\240618ical\FS240618RVT_14D_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Jun 19 21:01:37 2024
Response via : Initial Calibration

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

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	IS1_1,4-Dichlorobenzene-d4		1.000	1.000	0.0	106	0.00
2	t	n-Nitrosodimethylamine		0.695	0.667	4.0	108	0.00
3	t	Pyridine		1.127	1.040	7.7	106	0.00
4	S	2-Fluorophenol		1.028	0.957	6.9	101	0.00
5	T	Aniline		1.706	1.553	9.0	103	0.00
6	t	2-Chlorophenol		1.150	1.093	5.0	102	0.00
7	S	Phenol-d6		1.297	1.207	6.9	106	0.00
8	T	Phenol		1.512	1.436	5.0	105	0.00
9	T	Bis(2-chloroethyl)ether		0.991	0.960	3.1	108	0.00
10	T	1,3-Dichlorobenzene		1.480	1.402	5.3	103	0.00
11	T	1,4-Dichlorobenzene		1.533	1.424	7.1	104	0.00
12	T	1,2-Dichlorobenzene		1.454	1.348	7.3	104	0.00
13	t	Benzyl alcohol		0.973	0.929	4.5	101	0.00
14	T	Bis(2-chloroisopropyl)ether		1.478	1.339	9.4	103	0.00
15	T	2-Methylphenol		1.039	0.939	9.6	98	0.00
16	T	Hexachloroethane		0.544	0.500	8.1	103	0.00
17	T	n-Nitrosodi-n-propylamine		0.912	0.823	9.8	102	0.00
18	T	3-Methylphenol/4-Methylphen		1.095	1.030	5.9	105	0.00
19	S	Nitrobenzene-d5		1.354	1.219	10.0	102	0.00
20	T	Nitrobenzene		1.298	1.243	4.2	107	0.00
21	T	Isophorone		2.275	2.187	3.9	103	0.00
22	T	2-Nitrophenol		0.644	0.585	9.2	102	0.00
23	T	2,4-Dimethylphenol		1.097	0.903	17.7	91	0.00
24	T	Bis(2-chloroethoxy)methane		1.398	1.277	8.7	101	0.00
25	T	2,4-Dichlorophenol		1.237	1.157	6.5	100	0.00
26	T	1,2,4-Trichlorobenzene		1.544	1.391	9.9	101	0.00
35	I	IS1_Naphthalene-d8		1.000	1.000	0.0	101	0.00
36	T	Naphthalene		1.042	0.953	8.5	103	0.00
37	T	Benzoic Acid	*	5.000	4.145	17.1	95	0.00
38	T	4-Chloroaniline		0.127	0.111	12.6	93	0.00
39	T	Hexachlorobutadiene		0.250	0.228	8.8	101	0.00
40	T	p-Chloro-m-cresol		0.291	0.279	4.1	102	0.00
41	T	2-Methylnaphthalene		0.749	0.696	7.1	102	0.00
42	T	1-Methylnaphthalene		0.245	0.231	5.7	106	0.00
43	T	Hexachlorocyclopentadiene		0.290	0.272	6.2	103	0.00
44	T	2,4,6-Trichlorophenol		0.296	0.281	5.1	105	0.00
45	T	2,4,5-Trichlorophenol		0.316	0.306	3.2	102	0.00
46	S	2-Fluorobiphenyl		1.003	0.946	5.7	103	0.00

Data Path : I:\8270\Dakota\240618ical\
Data File : ABNICV.D
Acq On : 18 Jun 2024 7:10 pm
Operator : Dakota:cmm
Sample : CQICV1,32,,ABNICV Lot# 10805
Misc : WG1938219,,
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Jun 19 21:02:20 2024
Quant Method : I:\8270\Dakota\240618ical\FS240618RVT_14D_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Jun 19 21:01:37 2024
Response via : Initial Calibration

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

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(min)
47	T	2-Chloronaphthalene		0.830	0.769	7.3	101	0.00
48	T	2-Nitroaniline		0.221	0.208	5.9	102	0.00
49	T	1,4-Dinitrobenzene		0.117	0.112	4.3	104	0.00
50	T	1,3-Dinitrobenzene		0.127	0.120	5.5	95	0.00
51	T	Dimethyl phthalate		1.032	0.952	7.8	102	0.00
52	T	Acenaphthylene		1.240	1.192	3.9	102	0.00
53	T	2,6-Dinitrotoluene		0.204	0.194	4.9	102	0.00
54	T	1,2-Dinitrobenzene		0.074	0.071	4.1	92	0.00
63	I	IS1_Acenaphthene-d10		1.000	1.000	0.0	104	0.00
64	T	3-Nitroaniline		0.297	0.281	5.4	104	0.00
65	T	Acenaphthene		1.081	1.018	5.8	105	0.00
66	T	2,4-Dinitrophenol	*	5.000	4.397	12.1	101	0.00
67	T	Dibenzofuran		1.903	1.722	9.5	102	0.00
68	T	2,4-Dinitrotoluene		0.404	0.391	3.2	101	0.00
69	T	4-Nitrophenol		0.249	0.233	6.4	102	0.00
70	T	2,3,5,6-Tetrachlorophenol		0.428	0.393	8.2	103	0.00
71	T	2,3,4,6-Tetrachlorophenol		0.401	0.381	5.0	100	0.00
72	T	Diethyl phthalate		1.543	1.360	11.9	99	0.00
73	T	Fluorene		1.448	1.323	8.6	102	0.00
74	T	4-Chlorophenyl phenyl ether		0.738	0.670	9.2	101	0.00
75	T	4-Nitroaniline		0.292	0.274	6.2	100	0.00
76	T	4,6-Dinitro-o-cresol		0.255	0.243	4.7	97	0.00
77	T	NDPA/DPA		1.243	1.138	8.4	103	0.00
78	T	Azobenzene		1.252	1.186	5.3	106	0.00
79	S	2,4,6-Tribromophenol		0.261	0.250	4.2	101	0.00
80	T	4-Bromophenyl phenyl ether		0.491	0.429	12.6	102	0.00
81	T	Hexachlorobenzene		0.609	0.537	11.8	102	0.00
82	T	Pentachlorophenol		0.369	0.343	7.0	102	0.00
88	I	IS1_Phenanthrene-d10		1.000	1.000	0.0	103	0.00
89	T	Phenanthrene		1.081	0.982	9.2	102	0.00
90	T	Anthracene		1.043	0.983	5.8	104	0.00
91	T	Carbazole		0.988	0.914	7.5	101	0.00
92	T	Di-n-butylphthalate		1.134	1.086	4.2	102	0.00
93	T	Fluoranthene		1.317	1.228	6.8	104	0.00
94	T	Benzidine		0.734	0.715	2.6	101	0.00
95	T	Pyrene		1.356	1.290	4.9	104	0.00
96	S	4-Terphenyl-d14		1.040	0.955	8.2	102	0.00

Evaluate Continuing Calibration Report

Data Path : I:\8270\Dakota\240618ical\
Data File : ABNICV.D
Acq On : 18 Jun 2024 7:10 pm
Operator : Dakota:cmm
Sample : CQICV1,32,,ABNICV Lot# 10805
Misc : WG1938219,,
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Jun 19 21:02:20 2024
Quant Method : I:\8270\Dakota\240618ical\FS240618RVT_14D_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Jun 19 21:01:37 2024
Response via : Initial Calibration

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

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
97	T	Butyl benzyl phthalate	0.510	0.496	2.7	101	0.00
104	I	IS1_Chrysene-d12	1.000	1.000	0.0	102	0.00
105	T	Benzo(a)anthracene	1.334	1.231	7.7	103	0.00
106	T	3,3'-Dichlorobenzidine	0.495	0.482	2.6	102	0.00
107	T	Chrysene	1.266	1.191	5.9	104	0.00
108	T	Bis(2-ethylhexyl)phthalate	0.750	0.743	0.9	101	0.00
109	T	Di-n-octylphthalate	1.251	1.289	-3.0	105	0.00
110	T	Benzo(b)fluoranthene	1.424	1.348	5.3	103	0.00
111	T	Benzo(k)fluoranthene	1.355	1.266	6.6	104	0.00
112	T	Benzo(a)pyrene	1.262	1.262	0.0	107	0.00
113	I	IS1_Perylene-d12	1.000	1.000	0.0	100	0.00
114	T	Indeno(1,2,3-cd)pyrene	1.235	1.157	6.3	102	0.00
115	T	Dibenzo(a,h)anthracene	1.149	1.137	1.0	105	0.00
116	T	Benzo(ghi)perylene	1.129	1.071	5.1	103	0.00

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\240618ical\
Data File : ABNICV.D
Acq On : 18 Jun 2024 7:10 pm
Operator : Dakota:cmm
Sample : CQICV1,32,,ABNICV Lot# 10805
Misc : WG1938219,,
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Jun 19 21:02:20 2024
Quant Method : I:\8270\Dakota\240618ical\FS240618RVT_14D_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Jun 19 21:01:37 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\240618ical\ABNL6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) IS1_1,4-Dichlorobenzen...	4.527	152	30237	4.000 ug/ml	0.00
Standard Area 1 = 28474			Recovery = 106.19%		
35) IS1_Naphthalene-d8	5.761	136	107423	4.000 ug/ml	# 0.00
Standard Area 1 = 106396			Recovery = 100.97%		
63) IS1_Acenaphthene-d10	7.458	164	74420	4.000 ug/ml	0.00
Standard Area 1 = 71692			Recovery = 103.81%		
88) IS1_Phenanthrene-d10	8.881	188	169300	4.000 ug/ml	0.00
Standard Area 1 = 164397			Recovery = 102.98%		
104) IS1_Chrysene-d12	11.486	240	175963	4.000 ug/ml	0.00
Standard Area 1 = 172424			Recovery = 102.05%		
113) IS1_Perylene-d12	12.934	264	205983	4.000 ug/ml	0.00
Standard Area 1 = 205352			Recovery = 100.31%		
System Monitoring Compounds					
4) 2-Fluorophenol	3.252	112	36174	4.656 ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 232.80%#		
7) Phenol-d6	4.213	99	45634	4.654 ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 232.70%#		
19) Nitrobenzene-d5	5.067	82	46088	4.502 ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 450.20%#		
46) 2-Fluorobiphenyl	6.830	172	127078	4.720 ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 472.00%#		
79) 2,4,6-Tribromophenol	8.219	330	23240	4.778 ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 238.90%#		
96) 4-Terphenyl-d14	10.454	244	202168	4.592 ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 459.20%#		
Target Compounds					Qvalue
2) n-Nitrosodimethylamine	1.844	74	25197	4.797 ug/ml#	73
3) Pyridine	1.875	79	39303	4.615 ug/ml#	45
5) Aniline	4.210	93	58691	4.551 ug/ml	99
6) 2-Chlorophenol	4.322	128	41303	4.750 ug/ml#	90
8) Phenol	4.225	94	54279	4.750 ug/ml	93
9) Bis(2-chloroethyl)ether	4.294	93	36278	4.842 ug/ml	92
10) 1,3-Dichlorobenzene	4.468	146	52997	4.737 ug/ml	94
11) 1,4-Dichlorobenzene	4.542	146	53826	4.646 ug/ml	94
12) 1,2-Dichlorobenzene	4.688	146	50947	4.635 ug/ml	92
13) Benzyl alcohol	4.682	79	35123	4.776 ug/ml	98
14) Bis(2-chloroisopropyl)...	4.825	45	50620	4.531 ug/ml#	43

Data Path : I:\8270\Dakota\240618ical\
Data File : ABNICV.D
Acq On : 18 Jun 2024 7:10 pm
Operator : Dakota:cmm
Sample : CQICV1,32,,ABNICV Lot# 10805
Misc : WG1938219,,
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Jun 19 21:02:20 2024
Quant Method : I:\8270\Dakota\240618ical\FS240618RVT_14D_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Jun 19 21:01:37 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\240618ical\ABNL6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
15) 2-Methylphenol	4.816	108	35480	4.519	ug/ml		97
16) Hexachloroethane	5.015	117	18884	4.590	ug/ml	#	44
17) n-Nitrosodi-n-propylamine	4.952	70	31100	4.511	ug/ml	#	85
18) 3-Methylphenol/4-Methy...	4.971	108	38945	4.703	ug/ml		99
20) Nitrobenzene	5.086	77	46988	4.789	ug/ml		91
21) Isophorone	5.329	82	82665	4.807	ug/ml	#	93
22) 2-Nitrophenol	5.400	139	22094	4.539	ug/ml		89
23) 2,4-Dimethylphenol	5.481	107	34144	4.119	ug/ml		96
24) Bis(2-chloroethoxy)met...	5.568	93	48273	4.566	ug/ml	#	95
25) 2,4-Dichlorophenol	5.639	162	43736	4.676	ug/ml	#	91
26) 1,2,4-Trichlorobenzene	5.717	180	52566	4.504	ug/ml	#	95
36) Naphthalene	5.779	128	128000	4.575	ug/ml		98
37) Benzoic Acid	5.559	105	25027	4.145	ug/ml		88
38) 4-Chloroaniline	5.854	65	14911	4.374	ug/ml		74
39) Hexachlorobutadiene	5.932	225	30667	4.562	ug/ml		97
40) p-Chloro-m-cresol	6.351	107	37491	4.799	ug/ml		94
41) 2-Methylnaphthalene	6.457	142	93522	4.649	ug/ml		95
42) 1-Methylnaphthalene	6.550	115	31058	4.711	ug/ml		96
43) Hexachlorocyclopentadiene	6.631	237	36574	4.695	ug/ml		100
44) 2,4,6-Trichlorophenol	6.746	196	37725	4.745	ug/ml		99
45) 2,4,5-Trichlorophenol	6.774	196	41117	4.838	ug/ml		99
47) 2-Chloronaphthalene	6.923	162	103216	4.628	ug/ml	#	92
48) 2-Nitroaniline	7.035	138	27916	4.696	ug/ml		84
49) 1,4-Dinitrobenzene	7.165	168	15031	4.765	ug/ml		78
50) 1,3-Dinitrobenzene	7.240	168	16051	4.718	ug/ml	#	1
51) Dimethyl phthalate	7.237	163	127852	4.611	ug/ml	#	98
52) Acenaphthylene	7.315	152	160020	4.807	ug/ml		100
53) 2,6-Dinitrotoluene	7.277	165	26005	4.751	ug/ml	#	79
54) 1,2-Dinitrobenzene	7.318	168	9488	4.764	ug/ml	#	1
64) 3-Nitroaniline	7.430	138	26142	4.734	ug/ml	#	90
65) Acenaphthene	7.489	154	94690	4.708	ug/ml		91
66) 2,4-Dinitrophenol	7.532	184	17404	4.397	ug/ml	#	80
67) Dibenzofuran	7.657	168	160164	4.524	ug/ml		88
68) 2,4-Dinitrotoluene	7.663	165	36363	4.835	ug/ml		91
69) 4-Nitrophenol	7.625	65	21715	4.694	ug/ml	#	87
70) 2,3,5,6-Tetrachlorophenol	7.750	232	36554	4.595	ug/ml		99
71) 2,3,4,6-Tetrachlorophenol	7.790	232	35428	4.751	ug/ml		98
72) Diethyl phthalate	7.927	149	126509	4.407	ug/ml		99
73) Fluorene	7.986	166	123038	4.566	ug/ml		92
74) 4-Chlorophenyl phenyl ...	8.008	204	62368	4.545	ug/ml	#	83

Data Path : I:\8270\Dakota\240618ical\
Data File : ABNICV.D
Acq On : 18 Jun 2024 7:10 pm
Operator : Dakota:cmm
Sample : CQICV1,32,,ABNICV Lot# 10805
Misc : WG1938219,,
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Jun 19 21:02:20 2024
Quant Method : I:\8270\Dakota\240618ical\FS240618RVT_14D_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Jun 19 21:01:37 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\240618ical\ABNL6.D
Sub List : ABNical - ABN ical sublist

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
75)	4-Nitroaniline	8.017	138	25535	4.695	ug/ml#	79
76)	4,6-Dinitro-o-cresol	8.051	198	22581	4.760	ug/ml#	56
77)	NDPA/DPA	8.123	169	105835	4.576	ug/ml	92
78)	Azobenzene	8.157	77	110365	4.737	ug/ml	96
80)	4-Bromophenyl phenyl e...	8.474	248	39895	4.370	ug/ml#	79
81)	Hexachlorobenzene	8.524	284	50000	4.410	ug/ml#	79
82)	Pentachlorophenol	8.716	266	31883	4.646	ug/ml	99
89)	Phenanthrene	8.903	178	207829	4.541	ug/ml	100
90)	Anthracene	8.953	178	208056	4.714	ug/ml	99
91)	Carbazole	9.120	167	193451	4.626	ug/ml	99
92)	Di-n-butylphthalate	9.518	149	229888	4.788	ug/ml	99
93)	Fluoranthene	10.050	202	259812	4.661	ug/ml#	90
94)	Benzidine	10.205	184	151239	4.871	ug/ml#	94
95)	Pyrene	10.261	202	272963	4.757	ug/ml	99
97)	Butyl benzyl phthalate	10.976	149	104913	4.863	ug/ml	86
105)	Benzo(a)anthracene	11.476	228	270869	4.616	ug/ml	98
106)	3,3'-Dichlorobenzidine	11.483	252	106055	4.870	ug/ml#	96
107)	Chrysene	11.514	228	261953	4.702	ug/ml	98
108)	Bis(2-ethylhexyl)phtha...	11.610	149	163373	4.950	ug/ml#	90
109)	Di-n-octylphthalate	12.278	149	283548	5.153	ug/ml#	71
110)	Benzo(b)fluoranthene	12.567	252	296436	4.731	ug/ml#	92
111)	Benzo(k)fluoranthene	12.595	252	278467	4.672	ug/ml#	93
112)	Benzo(a)pyrene	12.878	252	277472	4.999	ug/ml#	92
114)	Indeno(1,2,3-cd)pyrene	13.879	276	297830	4.684	ug/mL#	86
115)	Dibenzo(a,h)anthracene	13.904	278	292850	4.949	ug/ml#	88
116)	Benzo(ghi)perylene	14.093	276	275749	4.743	ug/ml#	84

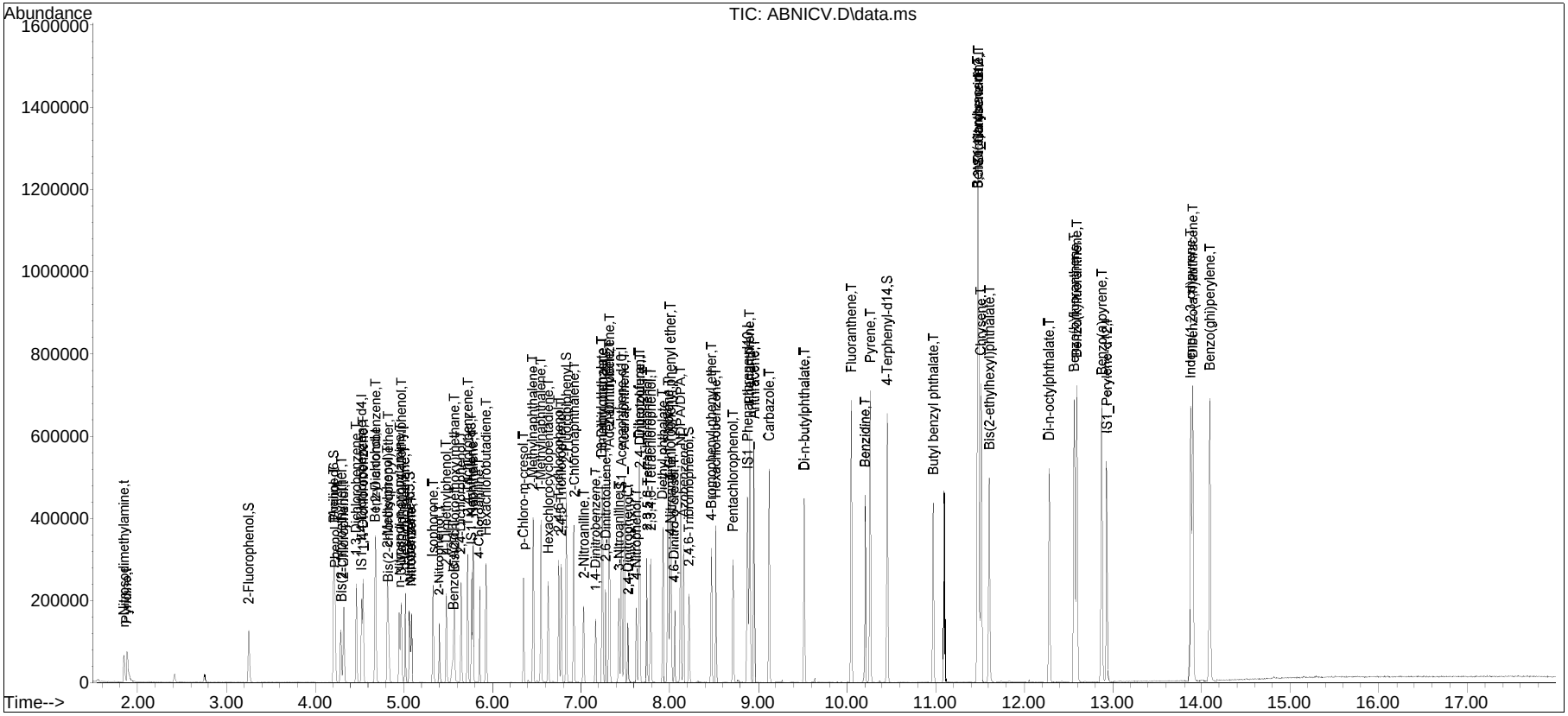
(#) = qualifier out of range (m) = manual integration (+) = signals summed

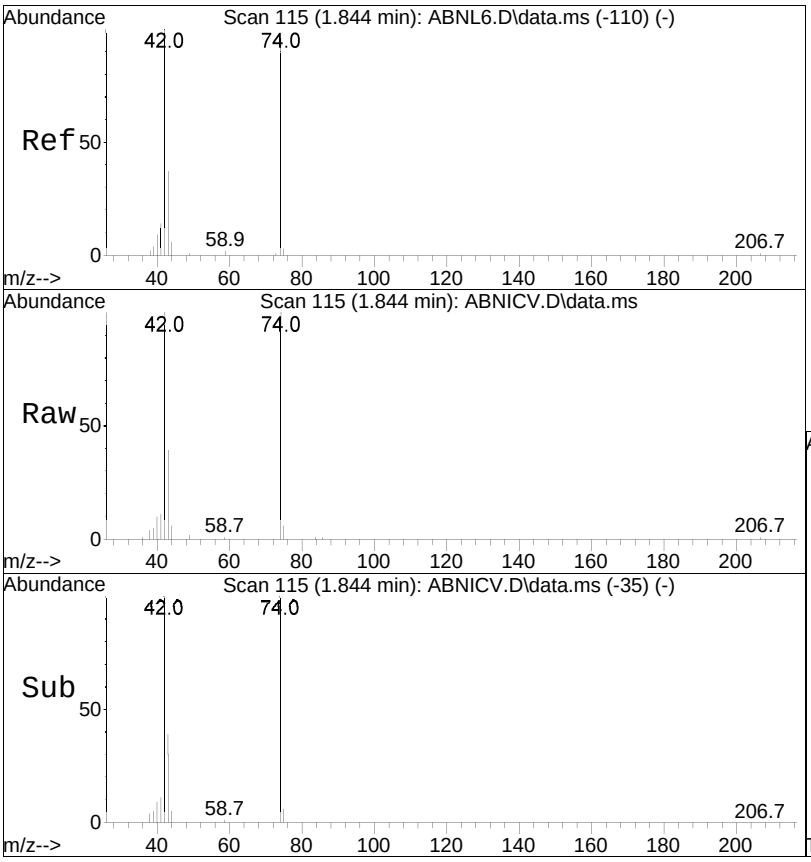
Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\240618ical\
Data File : ABNICV.D
Acq On : 18 Jun 2024 7:10 pm
Operator : Dakota:cmm
Sample : CQICV1,32,,ABNICV Lot# 10805
Misc : WG1938219,,
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Jun 19 21:02:20 2024
Quant Method : I:\8270\Dakota\240618ical\FS240618RVT_14D_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Jun 19 21:01:37 2024
Response via : Initial Calibration

Sub List : ABNical - ABN ical sublistcal\ABNL6.D•

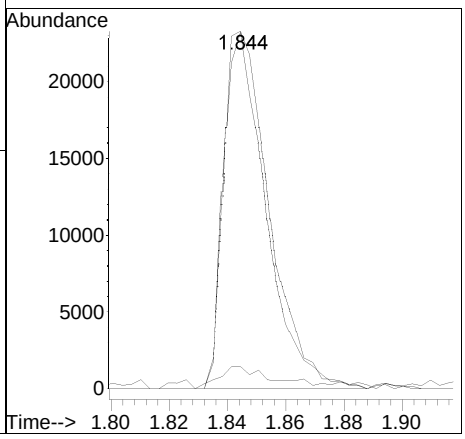


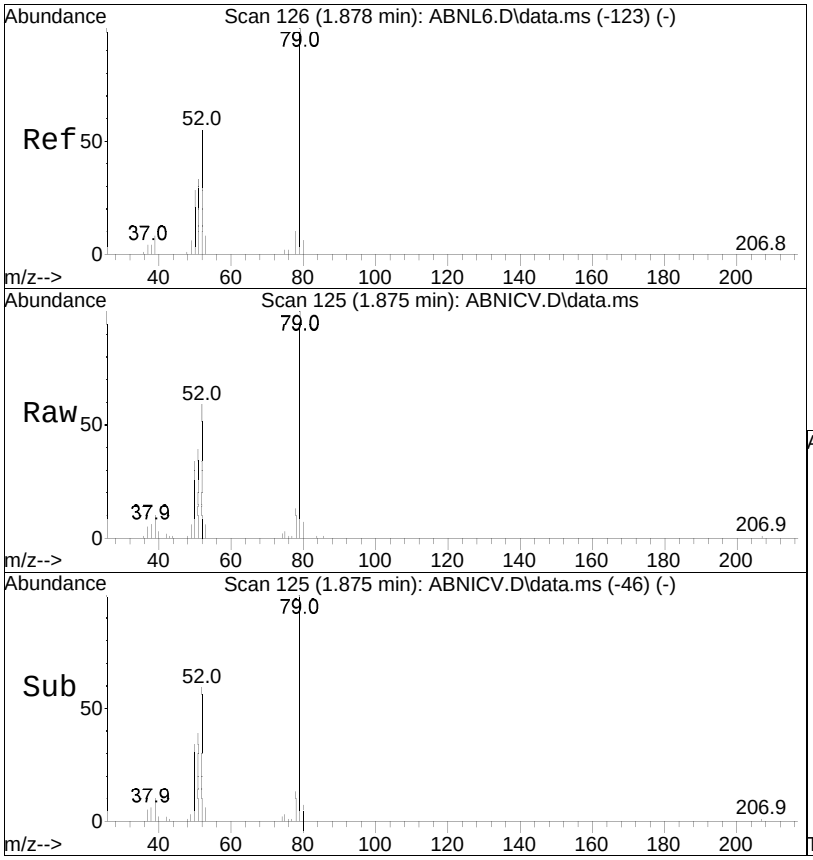


#2
n-Nitrosodimethylamine
Concen: 4.80 ug/ml
RT: 1.844 min Scan# 115
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 18 Jun 2024 7:10 pm

Tgt Ion: 74 Resp: 25197

Ion	Ratio	Lower	Upper
74	100		
42	92.1	100.0	150.0#
44	7.6	6.7	10.1

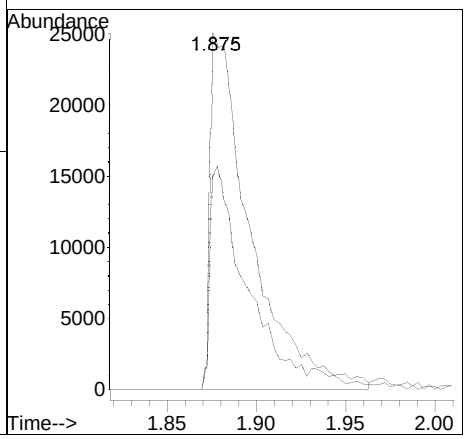


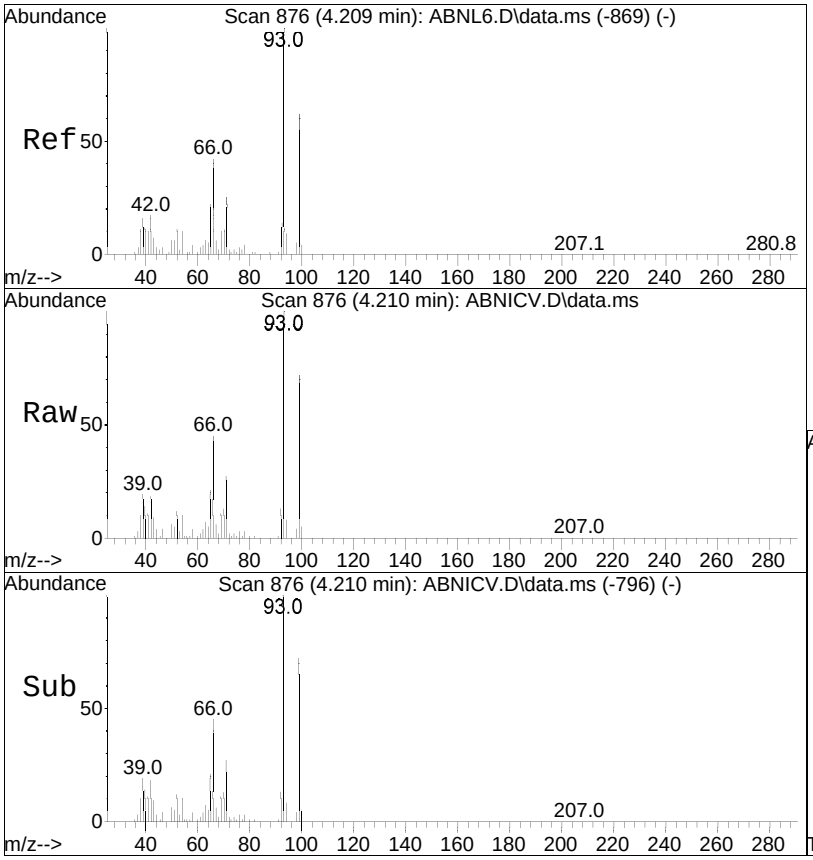


#3
Pyridine
Concen: 4.62 ug/ml
RT: 1.875 min Scan# 125
Delta R.T. -0.003 min
Lab File: ABNICV.D
Acq: 18 Jun 2024 7:10 pm

Tgt Ion: 79 Resp: 39303

Ion	Ratio	Lower	Upper
79	100		
52	56.0	93.1	139.7#

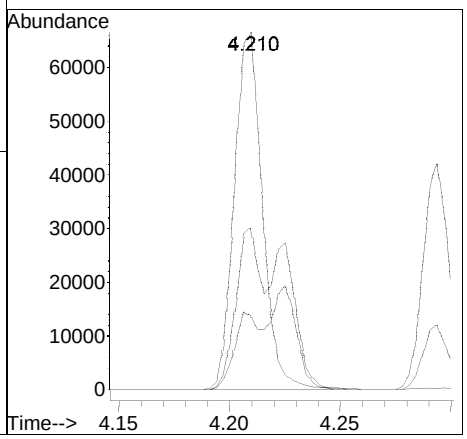


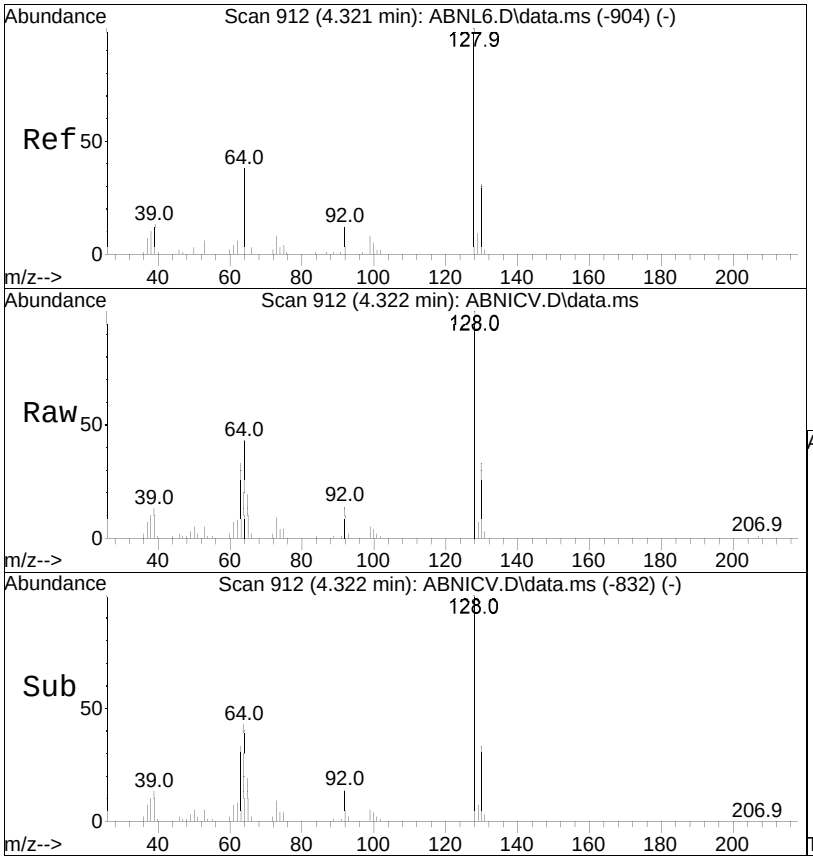


#5
Aniline
Concen: 4.55 ug/ml
RT: 4.210 min Scan# 876
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 18 Jun 2024 7:10 pm

Tgt Ion: 93 Resp: 58691

Ion	Ratio	Lower	Upper
93	100		
66	41.1	32.6	49.0
65	21.4	17.6	26.4

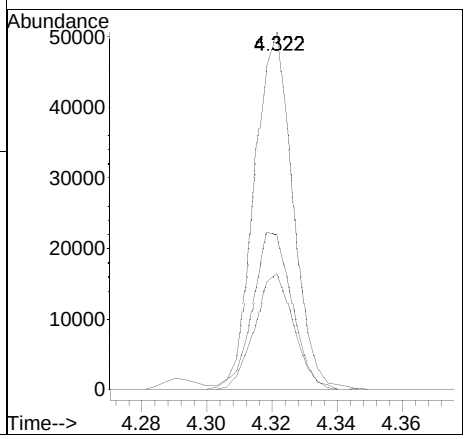


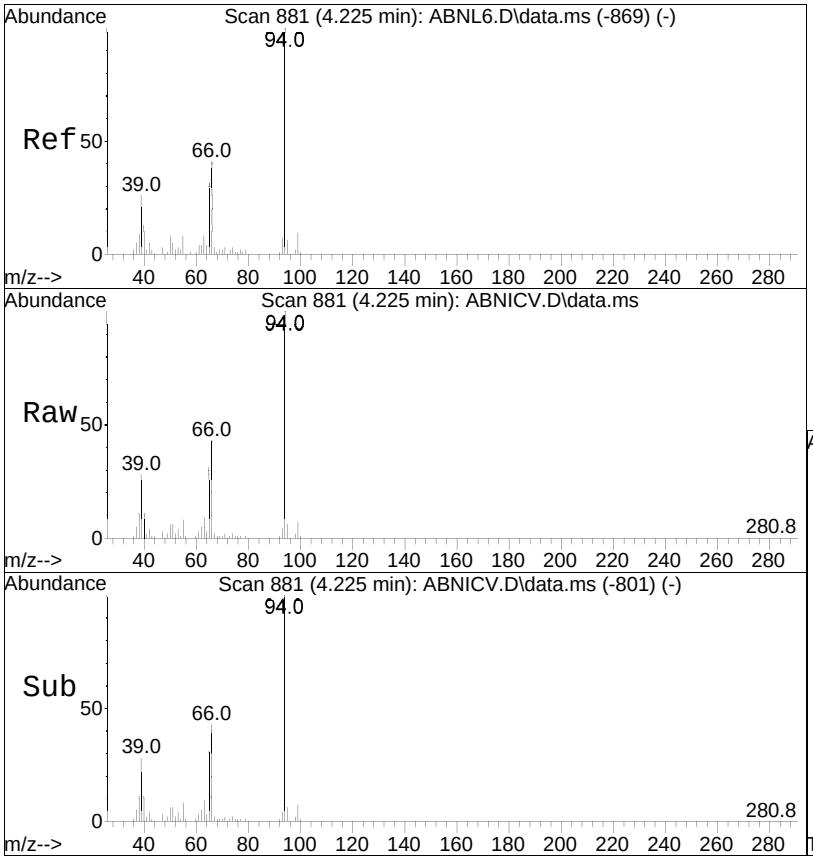


#6
2-Chlorophenol
Concen: 4.75 ug/ml
RT: 4.322 min Scan# 912
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 18 Jun 2024 7:10 pm

Tgt Ion:128 Resp: 41303

Ion	Ratio	Lower	Upper
128	100		
64	45.1	45.1	67.7#
130	33.0	26.2	39.4

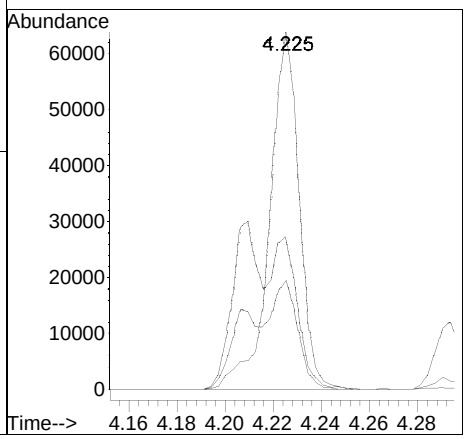


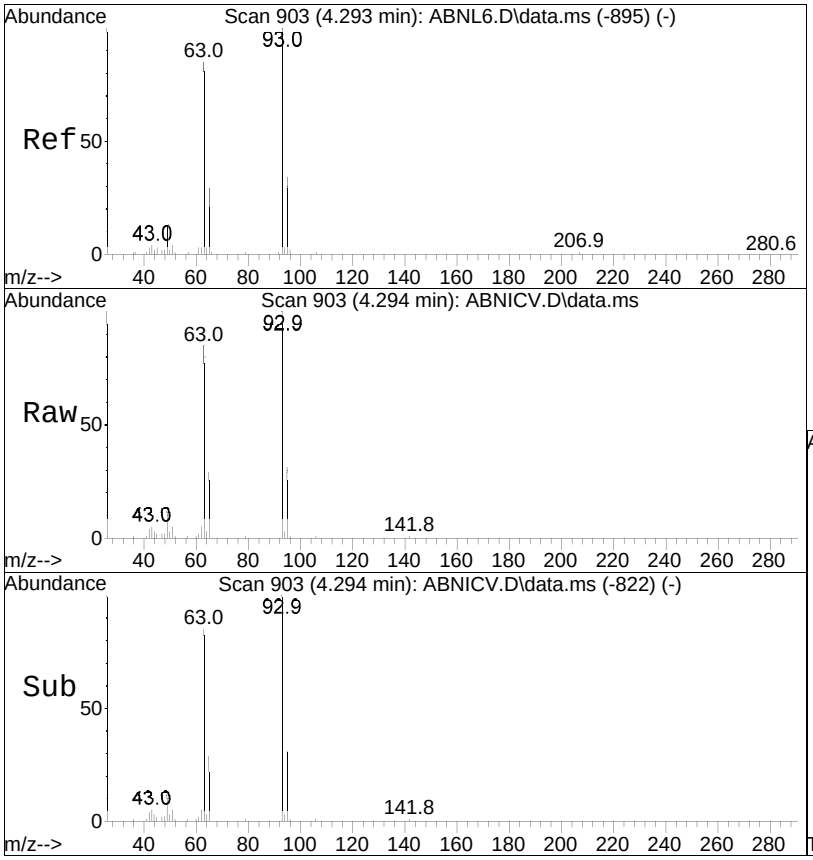


#8
Phenol
Concen: 4.75 ug/ml
RT: 4.225 min Scan# 881
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 18 Jun 2024 7:10 pm

Tgt Ion: 94 Resp: 54279

Ion	Ratio	Lower	Upper
94	100		
65	27.1	26.0	39.0
66	38.6	33.8	50.8

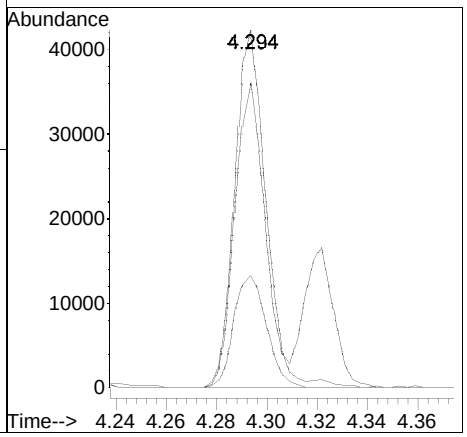


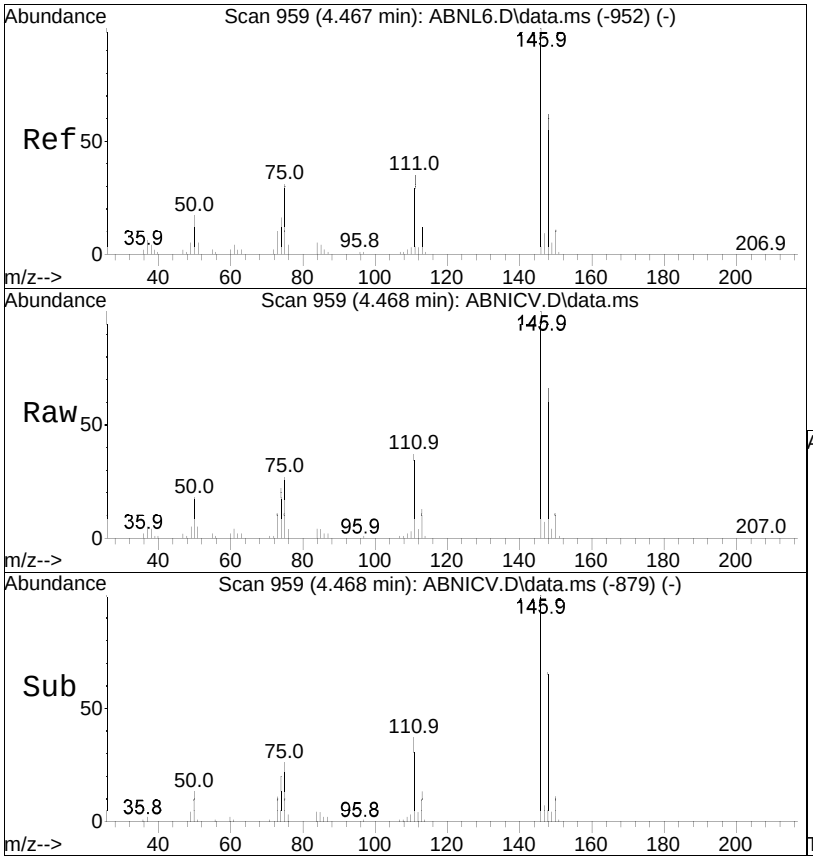


#9
Bis(2-chloroethyl)ether
Concen: 4.84 ug/ml
RT: 4.294 min Scan# 903
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 18 Jun 2024 7:10 pm

Tgt Ion: 93 Resp: 36278

Ion	Ratio	Lower	Upper
93	100		
63	83.2	74.6	111.8
95	33.0	25.9	38.9

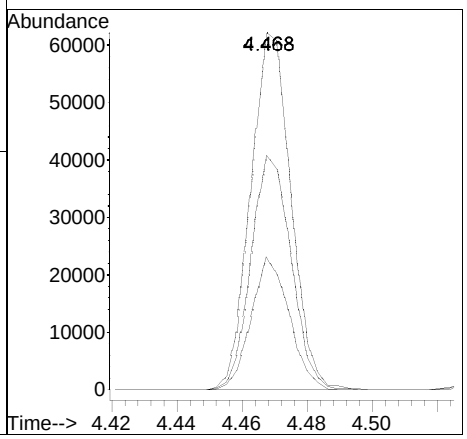


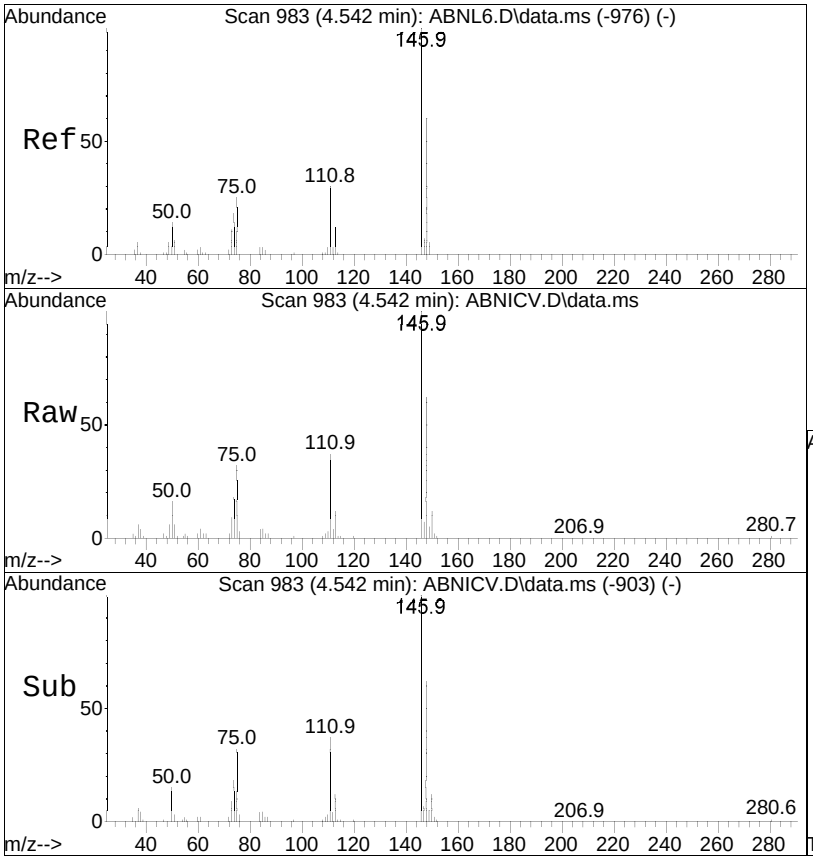


#10
1,3-Dichlorobenzene
Concen: 4.74 ug/ml
RT: 4.468 min Scan# 959
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 18 Jun 2024 7:10 pm

Tgt Ion:146 Resp: 52997

Ion	Ratio	Lower	Upper
146	100		
111	35.2	34.3	51.5
148	65.3	50.8	76.2

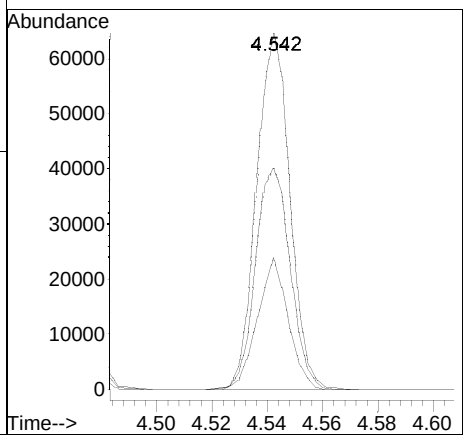


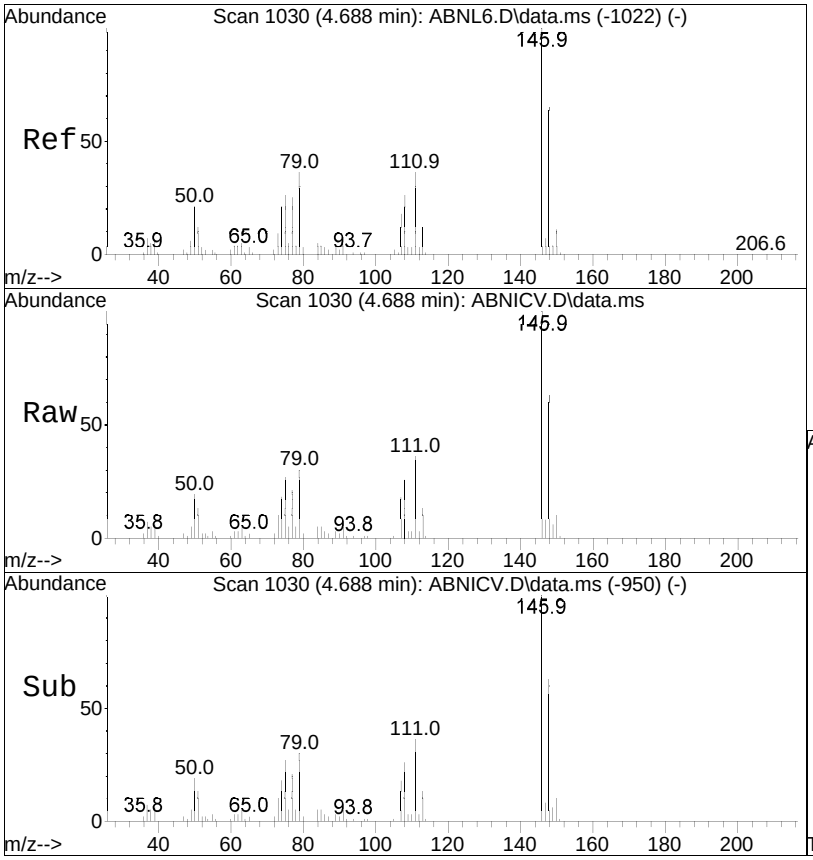


#11
1,4-Dichlorobenzene
Concen: 4.65 ug/ml
RT: 4.542 min Scan# 983
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 18 Jun 2024 7:10 pm

Tgt Ion:146 Resp: 53826

Ion	Ratio	Lower	Upper
146	100		
148	65.1	50.7	76.1
111	34.7	33.4	50.0

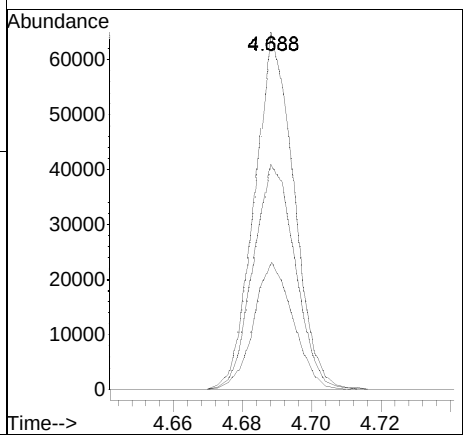


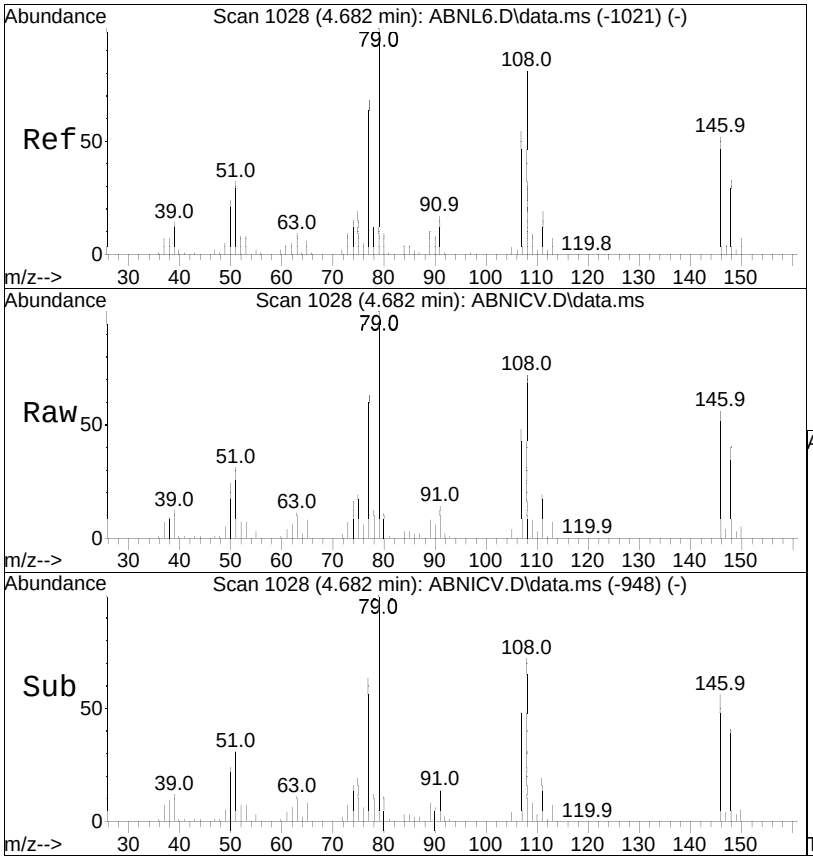


#12
1,2-Dichlorobenzene
Concen: 4.63 ug/ml
RT: 4.688 min Scan# 1030
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 18 Jun 2024 7:10 pm

Tgt Ion:146 Resp: 50947

Ion	Ratio	Lower	Upper
146	100		
111	36.0	34.6	52.0
148	67.4	50.2	75.4

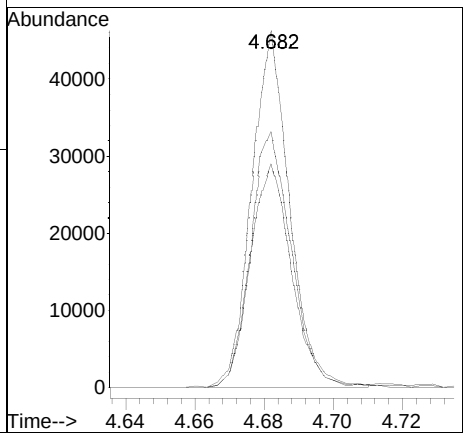


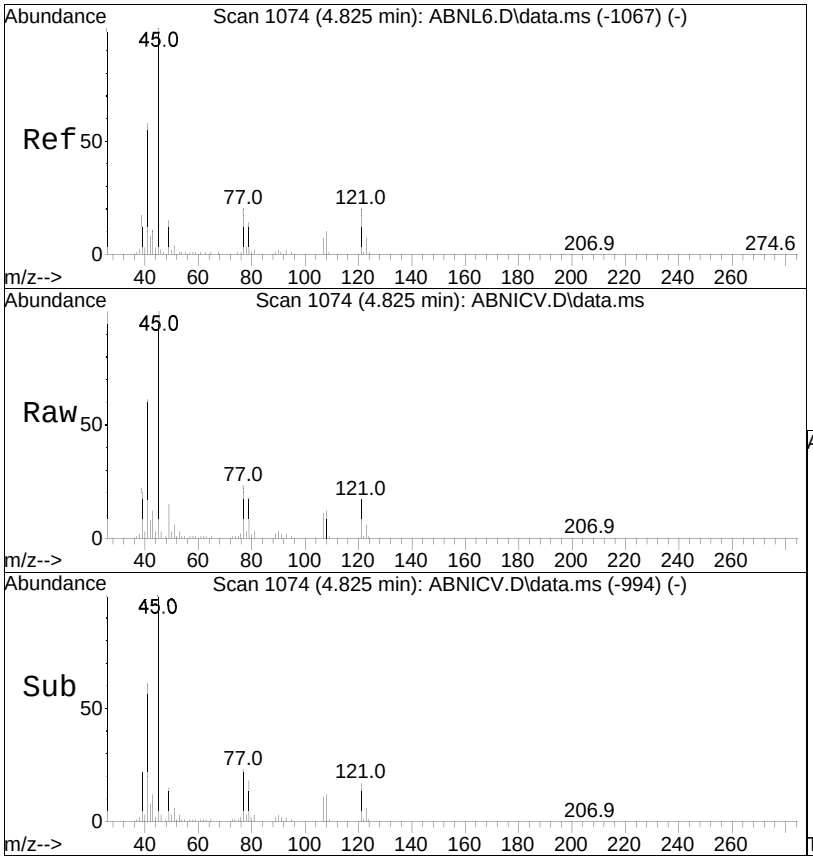


#13
Benzyl alcohol
Concen: 4.78 ug/ml
RT: 4.682 min Scan# 1028
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 18 Jun 2024 7:10 pm

Tgt Ion: 79 Resp: 35123

Ion	Ratio	Lower	Upper
79	100		
77	69.3	54.9	82.3
108	76.5	63.1	94.7

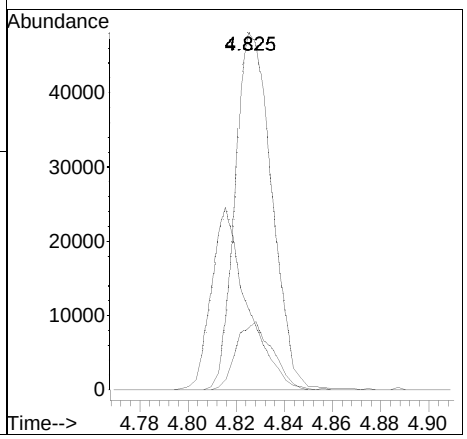


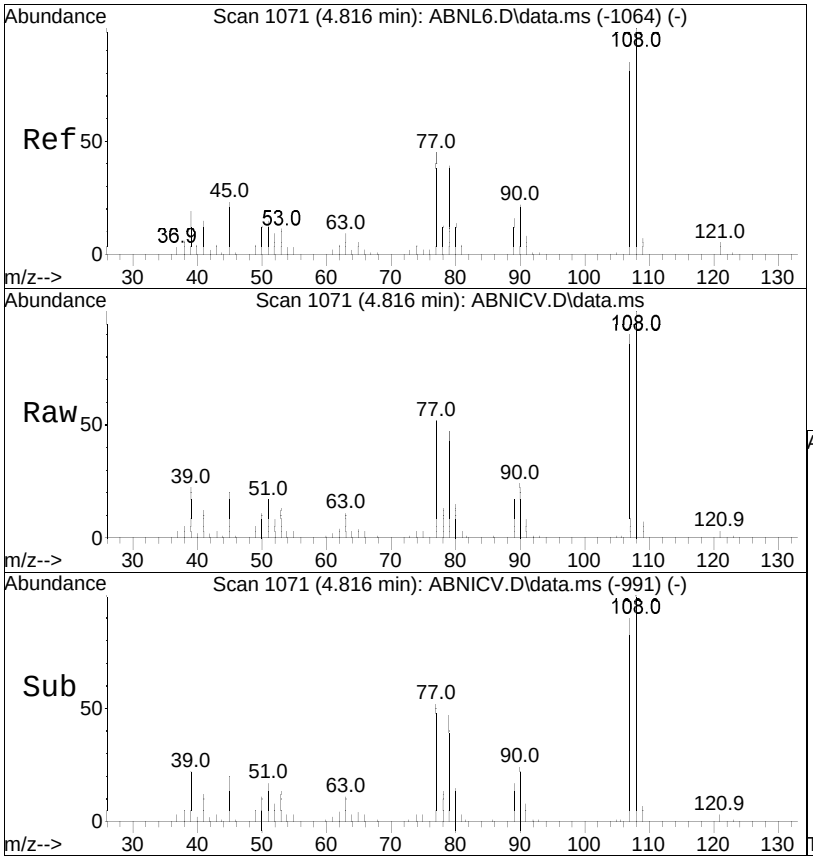


#14
Bis(2-chloroisopropyl)ether
Concen: 4.53 ug/ml
RT: 4.825 min Scan# 1074
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 18 Jun 2024 7:10 pm

Tgt Ion: 45 Resp: 50620

Ion	Ratio	Lower	Upper
45	100		
121	18.8	9.8	14.6#
77	49.7	6.1	9.1#

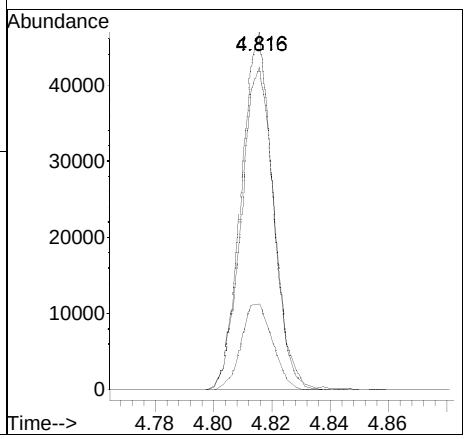


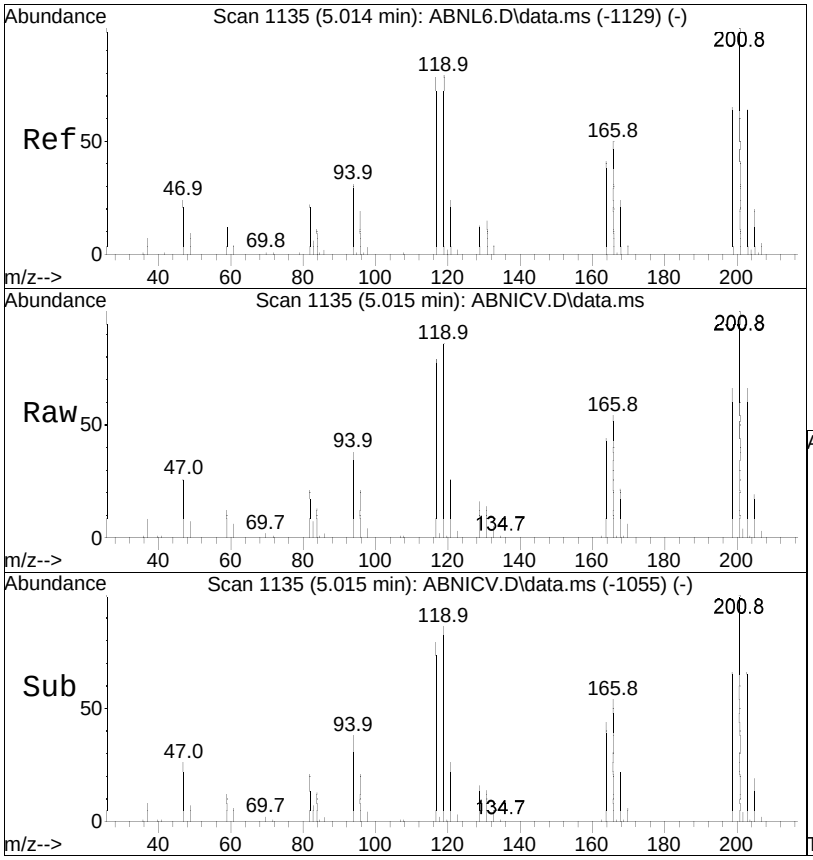


#15
2-Methylphenol
Concen: 4.52 ug/ml
RT: 4.816 min Scan# 1071
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 18 Jun 2024 7:10 pm

Tgt Ion:108 Resp: 35480

Ion	Ratio	Lower	Upper
108	100		
107	92.0	70.7	106.1
90	23.9	18.7	28.1

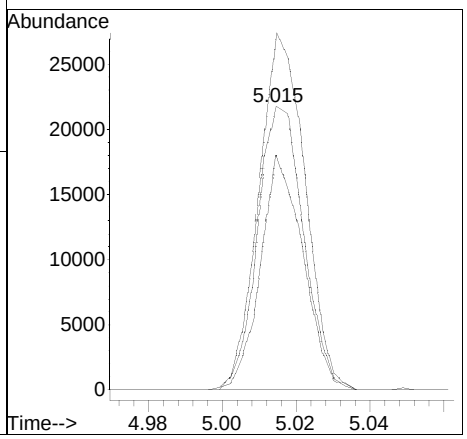


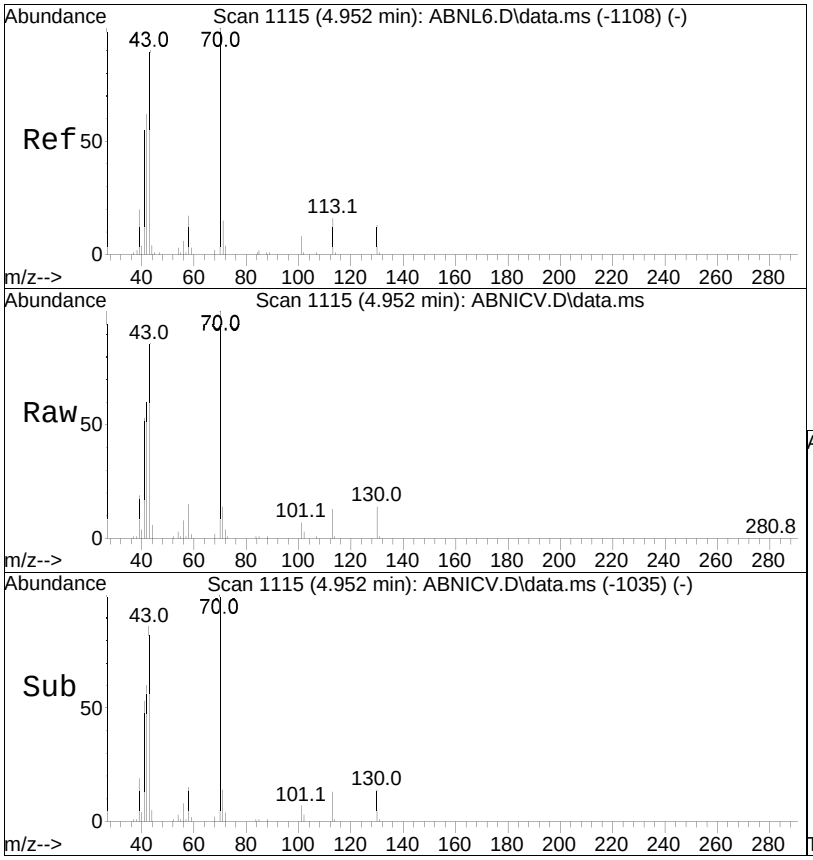


#16
Hexachloroethane
Concen: 4.59 ug/ml
RT: 5.015 min Scan# 1135
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 18 Jun 2024 7:10 pm

Tgt Ion:117 Resp: 18884

Ion	Ratio	Lower	Upper
117	100		
201	125.9	58.6	87.8#
199	76.4	36.9	55.3#

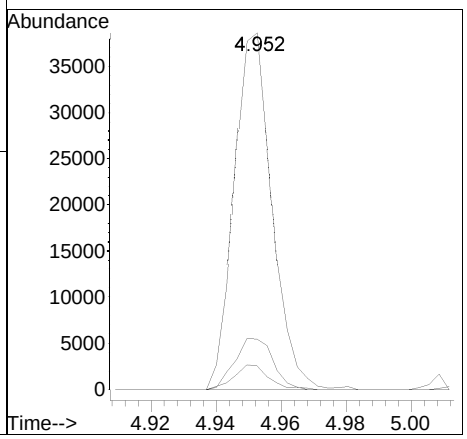


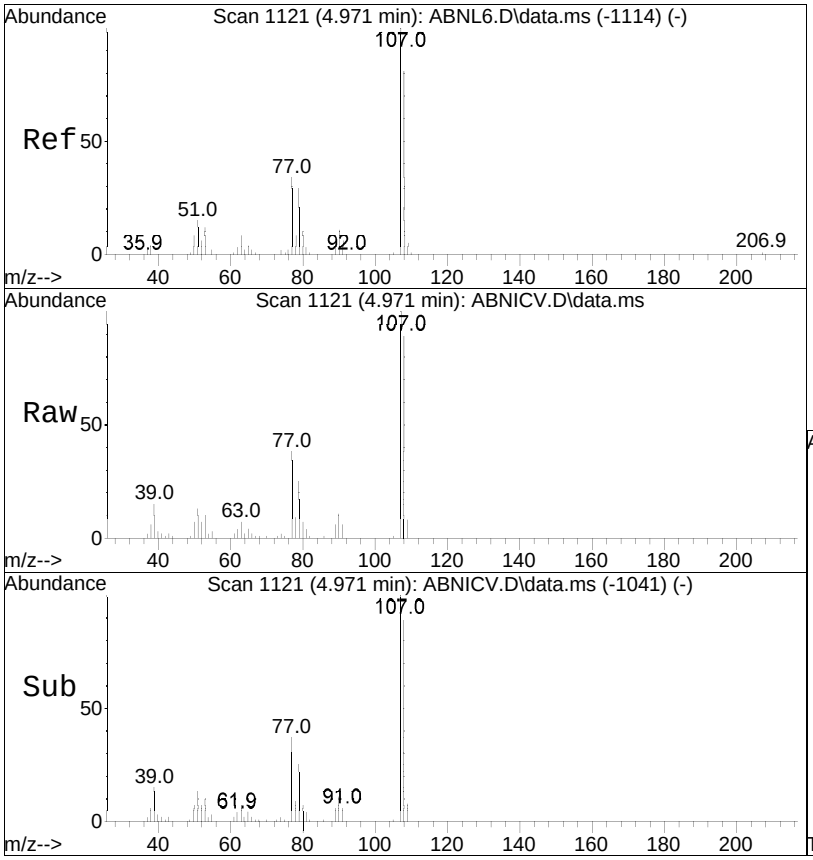


#17
n-Nitrosodi-n-propylamine
Concen: 4.51 ug/ml
RT: 4.952 min Scan# 1115
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 18 Jun 2024 7:10 pm

Tgt Ion: 70 Resp: 31100

Ion	Ratio	Lower	Upper
70	100		
130	14.6	18.2	27.4#
101	6.4	7.8	11.8#

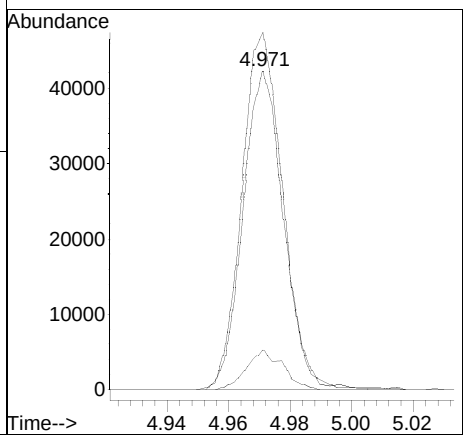


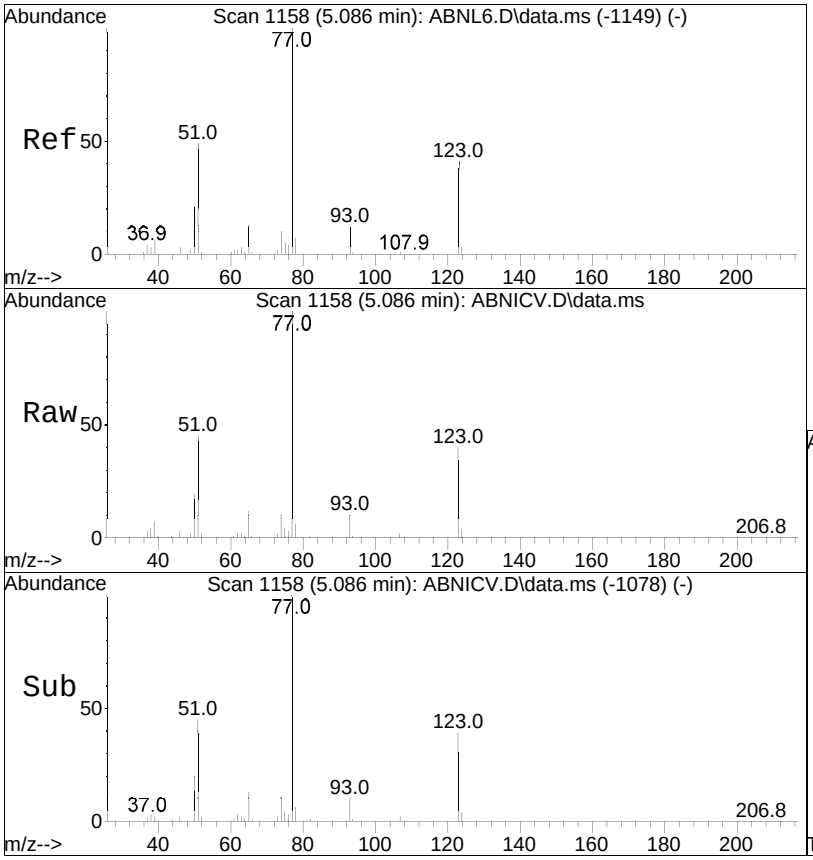


#18
3-Methylphenol/4-Methylphenol
Concen: 4.70 ug/ml
RT: 4.971 min Scan# 1121
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 18 Jun 2024 7:10 pm

Tgt Ion:108 Resp: 38945

Ion	Ratio	Lower	Upper
108	100		
107	111.7	88.6	132.8
90	11.2	8.8	13.2

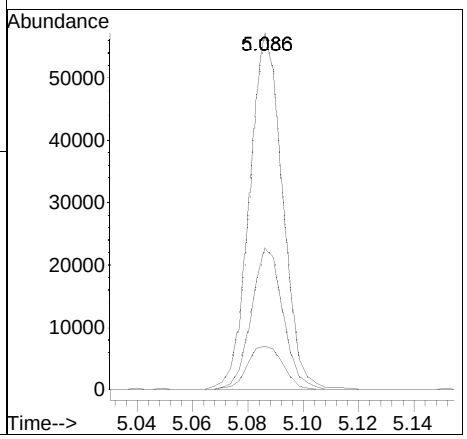


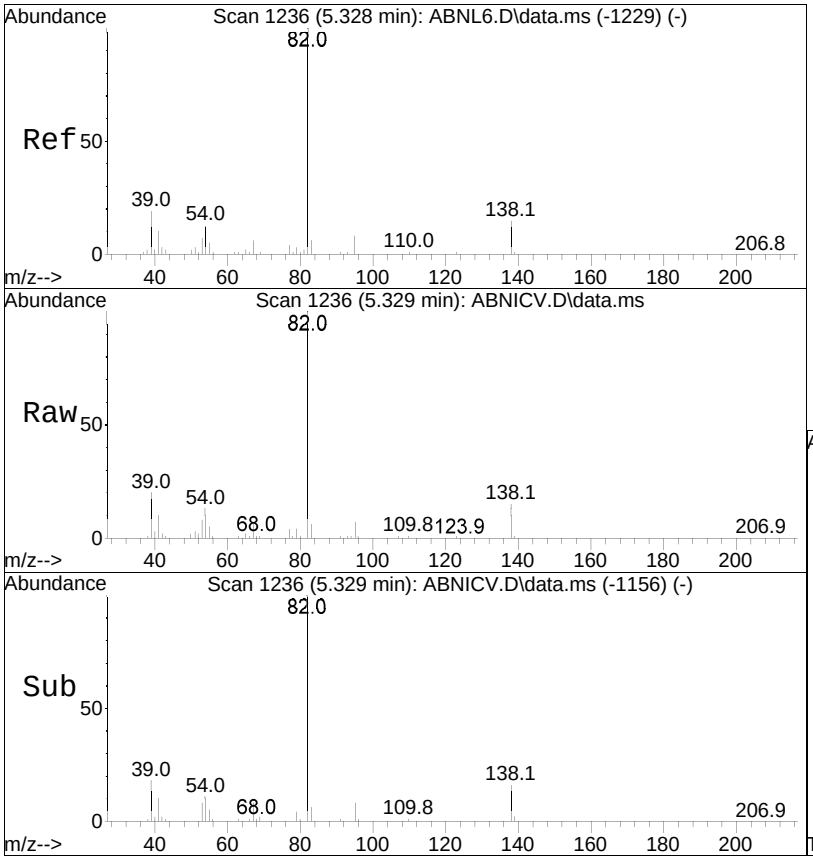


#20
Nitrobenzene
Concen: 4.79 ug/ml
RT: 5.086 min Scan# 1158
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 18 Jun 2024 7:10 pm

Tgt Ion: 77 Resp: 46988

Ion	Ratio	Lower	Upper
77	100		
123	38.3	36.3	54.5
65	13.2	11.6	17.4

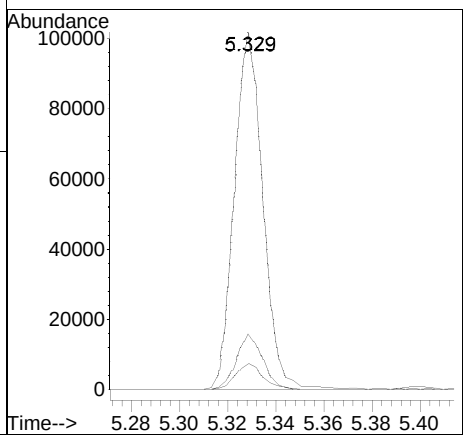


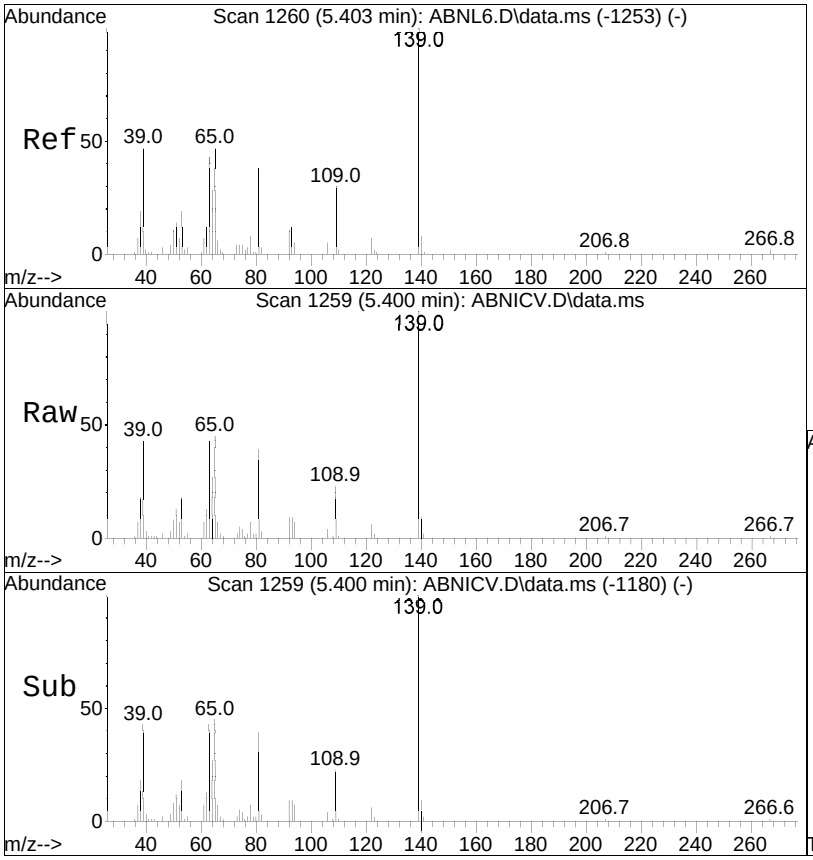


#21
Isophorone
Concen: 4.81 ug/ml
RT: 5.329 min Scan# 1236
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 18 Jun 2024 7:10 pm

Tgt Ion: 82 Resp: 82665

Ion	Ratio	Lower	Upper
82	100		
138	14.4	14.7	22.1#
95	7.0	5.2	7.8

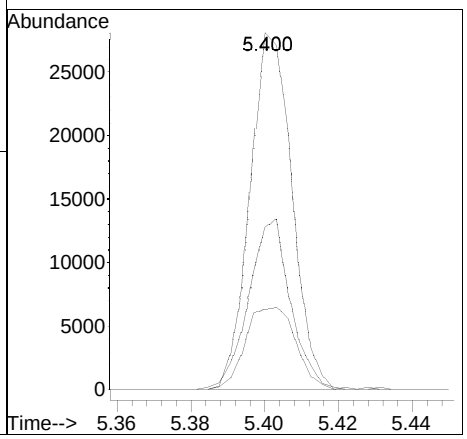


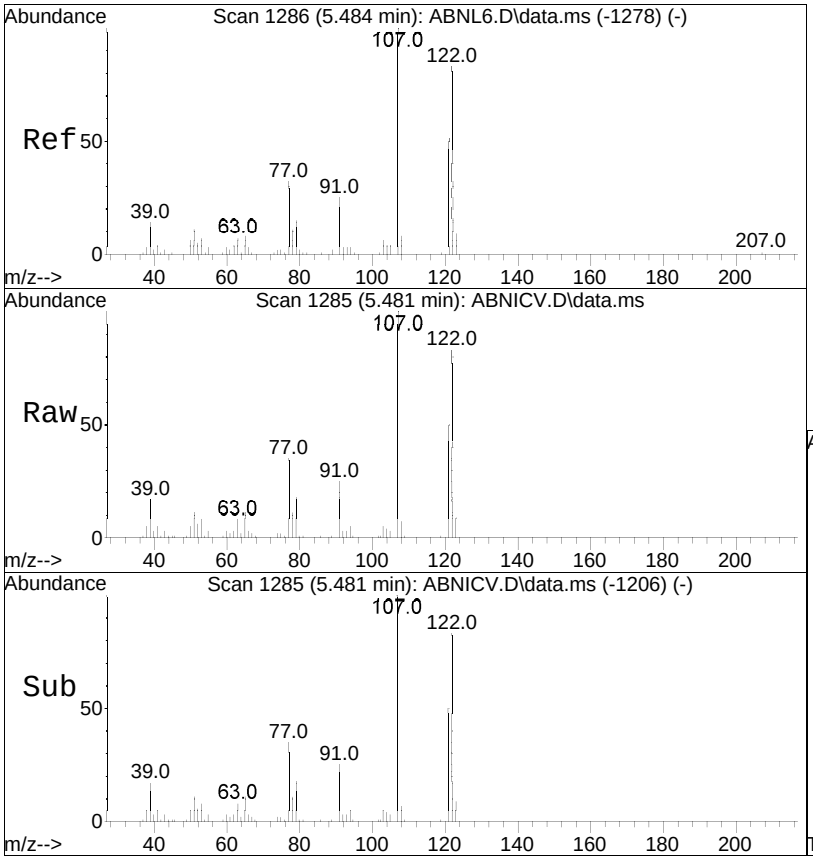


#22
2-Nitrophenol
Concen: 4.54 ug/ml
RT: 5.400 min Scan# 1259
Delta R.T. -0.003 min
Lab File: ABNICV.D
Acq: 18 Jun 2024 7:10 pm

Tgt Ion:139 Resp: 22094

Ion	Ratio	Lower	Upper
139	100		
109	27.6	19.4	29.0
65	47.7	46.1	69.1

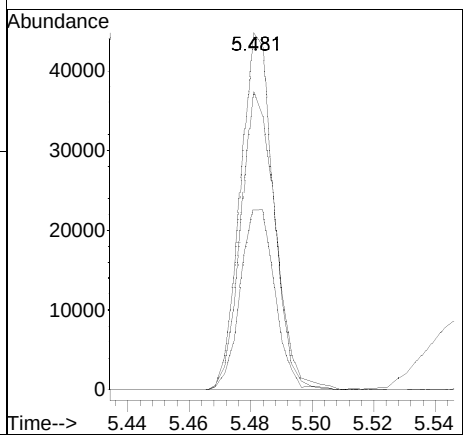


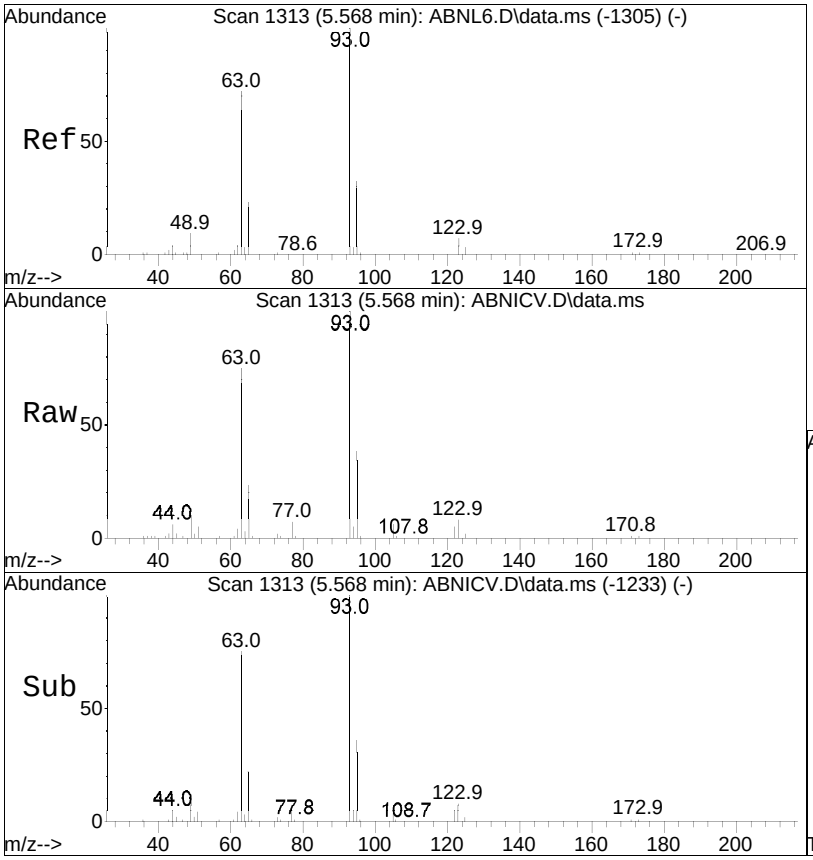


#23
2,4-Dimethylphenol
Concen: 4.12 ug/ml
RT: 5.481 min Scan# 1285
Delta R.T. -0.003 min
Lab File: ABNICV.D
Acq: 18 Jun 2024 7:10 pm

Tgt Ion:107 Resp: 34144

Ion	Ratio	Lower	Upper
107	100		
121	52.0	40.0	60.0
122	83.4	70.2	105.4

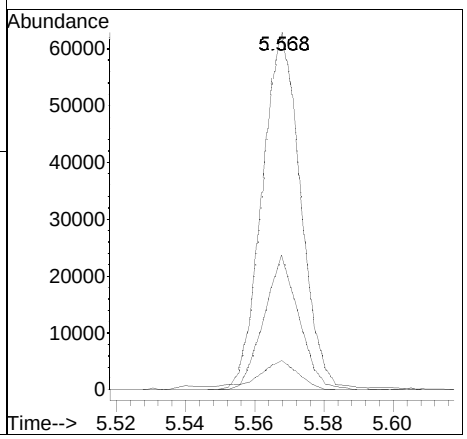


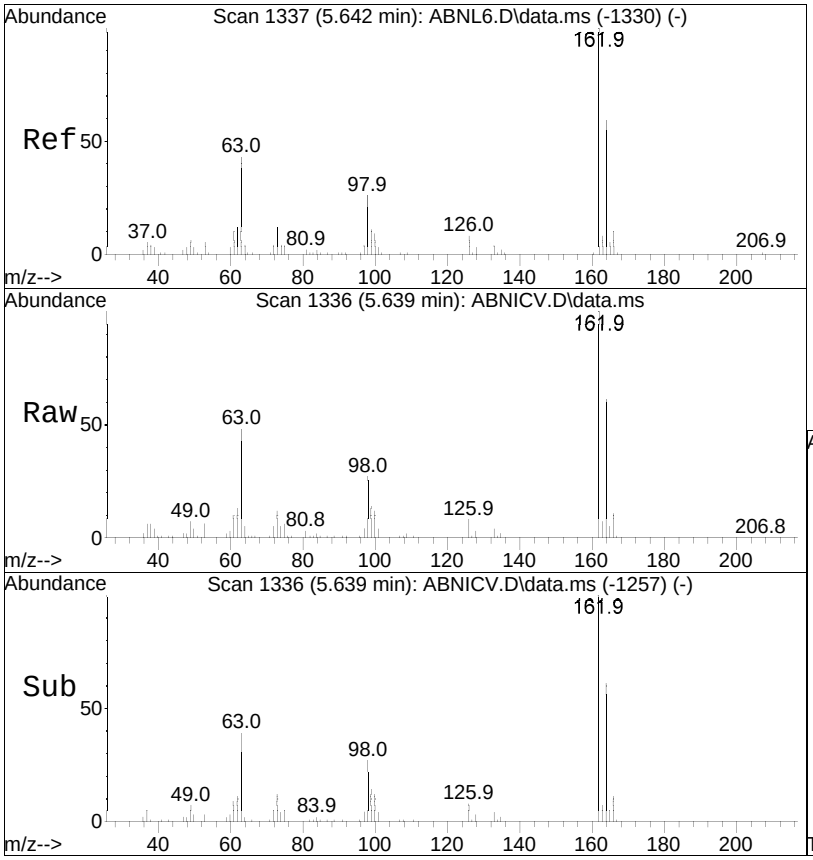


#24
Bis(2-chloroethoxy)methane
Concen: 4.57 ug/ml
RT: 5.568 min Scan# 1313
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 18 Jun 2024 7:10 pm

Tgt Ion: 93 Resp: 48273

Ion	Ratio	Lower	Upper
93	100		
95	34.5	25.8	38.8
123	9.9	10.1	15.1#

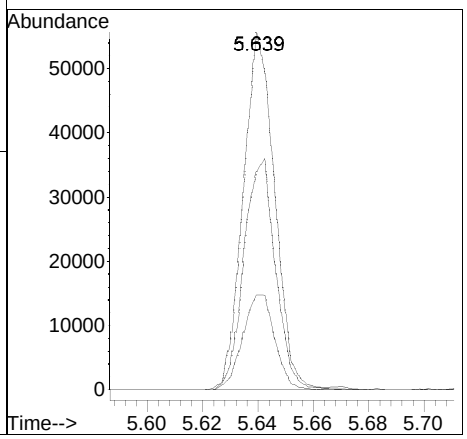


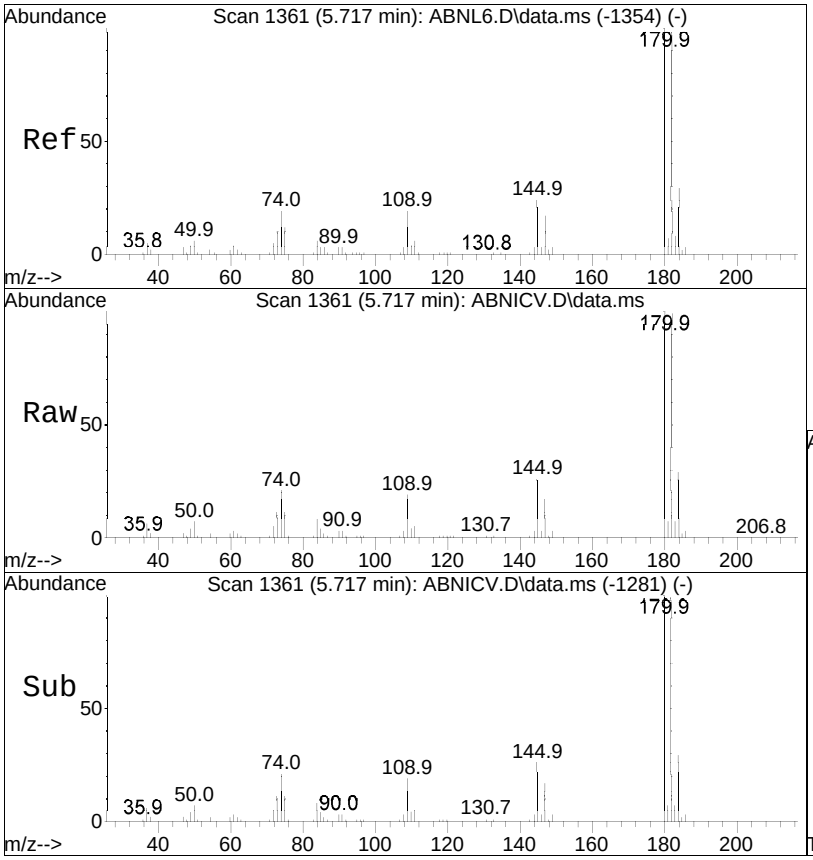


#25
2,4-Dichlorophenol
Concen: 4.68 ug/ml
RT: 5.639 min Scan# 1336
Delta R.T. -0.003 min
Lab File: ABNICV.D
Acq: 18 Jun 2024 7:10 pm

Tgt Ion:162 Resp: 43736

Ion	Ratio	Lower	Upper
162	100		
164	64.9	51.0	76.4
98	27.2	32.2	48.2#

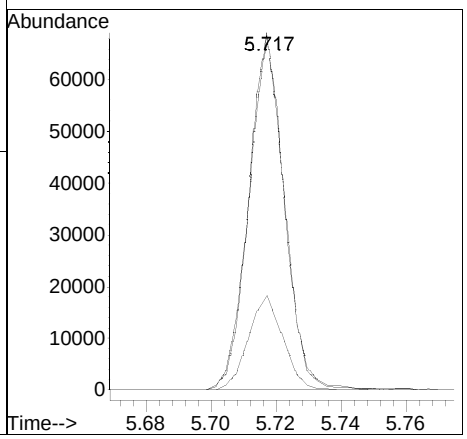


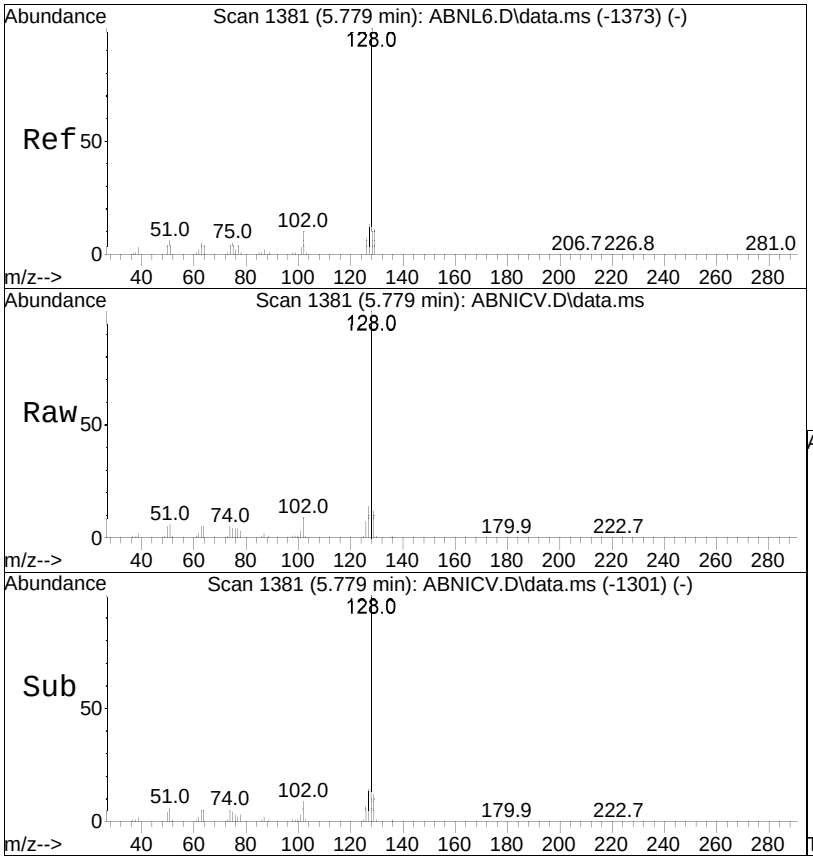


#26
1,2,4-Trichlorobenzene
Concen: 4.50 ug/ml
RT: 5.717 min Scan# 1361
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 18 Jun 2024 7:10 pm

Tgt Ion:180 Resp: 52566

Ion	Ratio	Lower	Upper
180	100		
182	97.4	76.0	114.0
145	25.5	25.7	38.5#

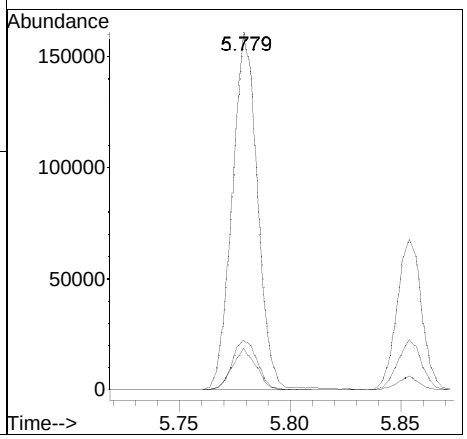


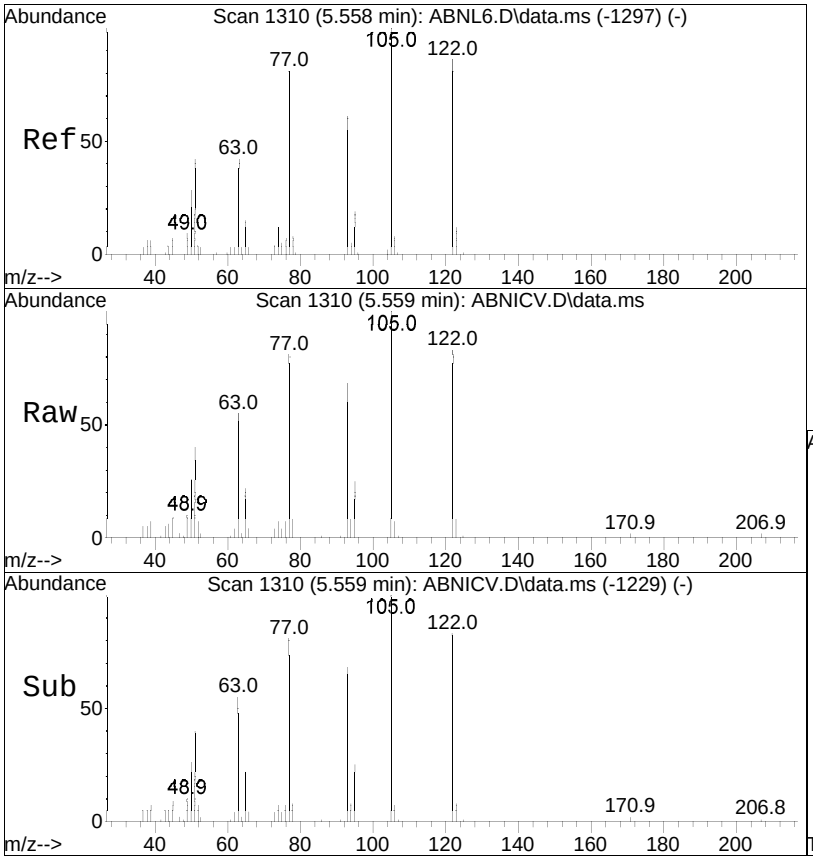


#36
Naphthalene
Concen: 4.58 ug/ml
RT: 5.779 min Scan# 1381
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 18 Jun 2024 7:10 pm

Tgt Ion:128 Resp: 128000

Ion	Ratio	Lower	Upper
128	100		
129	11.0	8.7	13.1
127	14.0	10.3	15.5

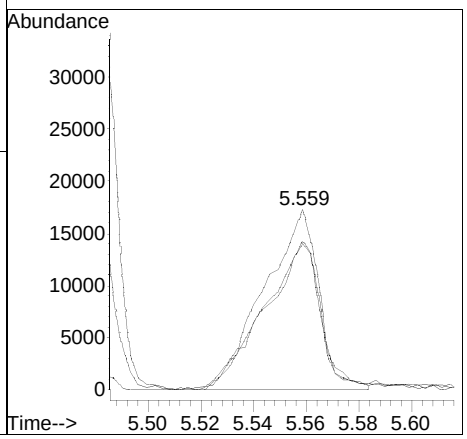


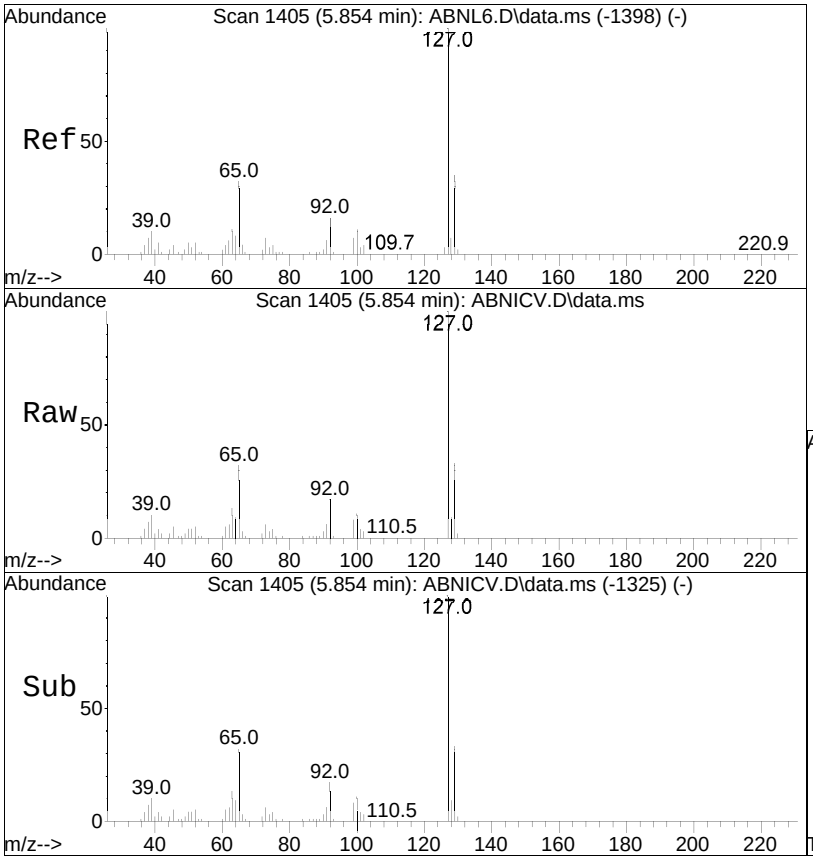


#37
Benzoic Acid
Concen: 4.15 ug/ml
RT: 5.559 min Scan# 1310
Delta R.T. 0.001 min
Lab File: ABNICV.D
Acq: 18 Jun 2024 7:10 pm

Tgt Ion:105 Resp: 25027

Ion	Ratio	Lower	Upper
105	100		
122	85.7	59.9	89.9
77	84.7	60.1	90.1

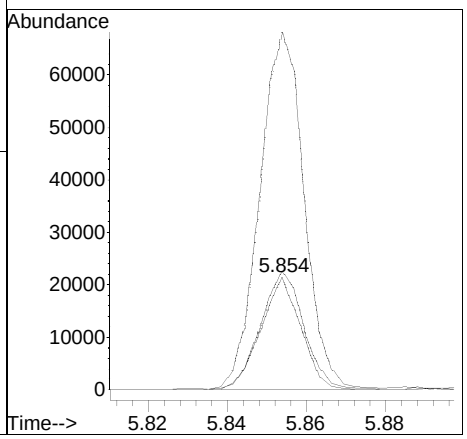


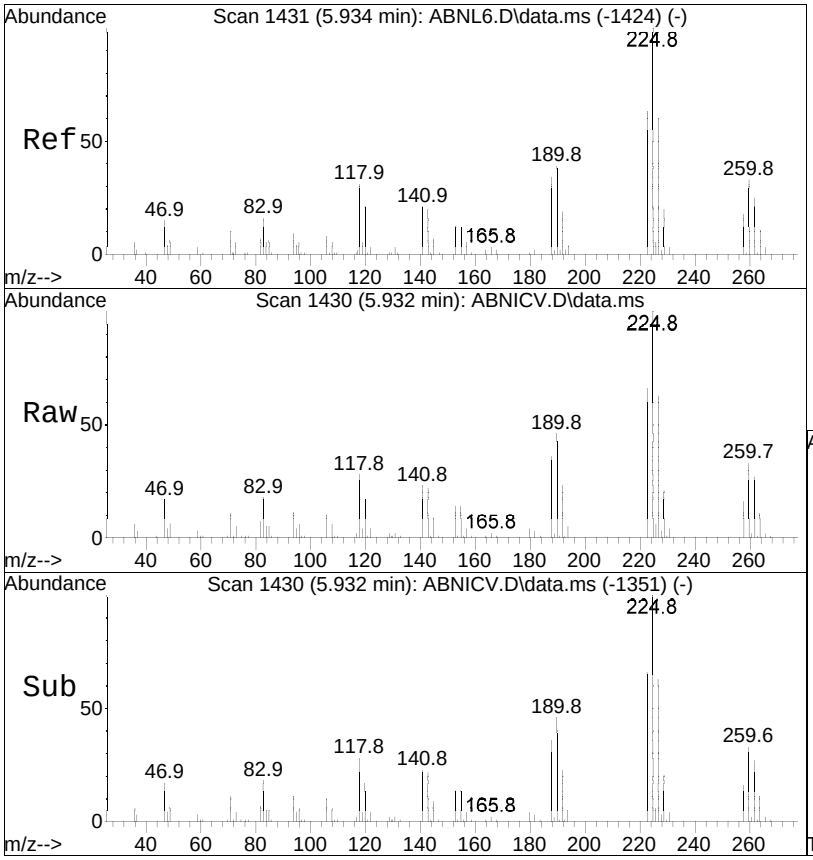


#38
4-Chloroaniline
Concen: 4.37 ug/ml
RT: 5.854 min Scan# 1405
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 18 Jun 2024 7:10 pm

Tgt Ion: 65 Resp: 14911

Ion	Ratio	Lower	Upper
65	100		
127	352.9	237.6	356.4
129	114.2	76.3	114.5

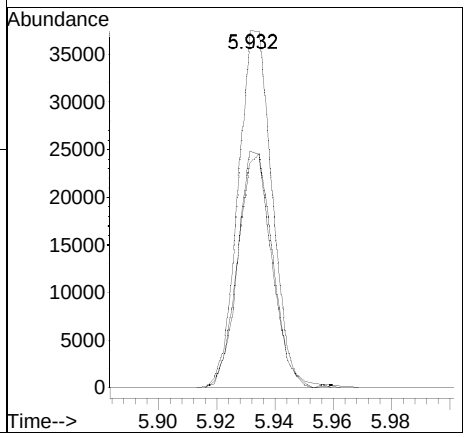


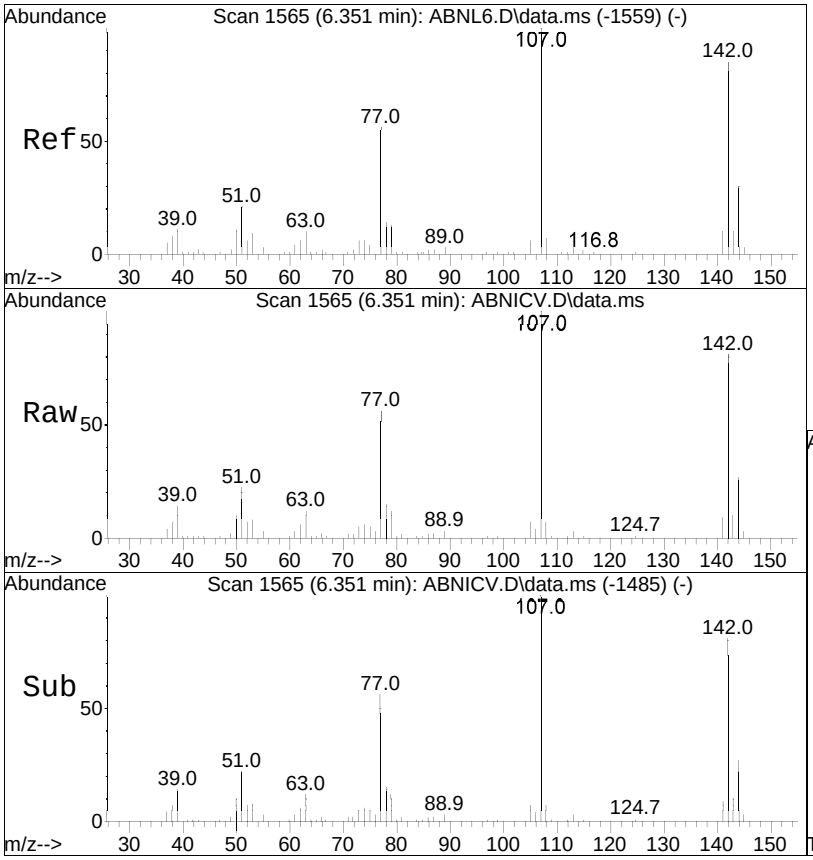


#39
Hexachlorobutadiene
Concen: 4.56 ug/ml
RT: 5.932 min Scan# 1430
Delta R.T. -0.003 min
Lab File: ABNICV.D
Acq: 18 Jun 2024 7:10 pm

Tgt Ion:225 Resp: 30667

Ion	Ratio	Lower	Upper
225	100		
223	65.6	50.3	75.5
227	67.1	52.2	78.2

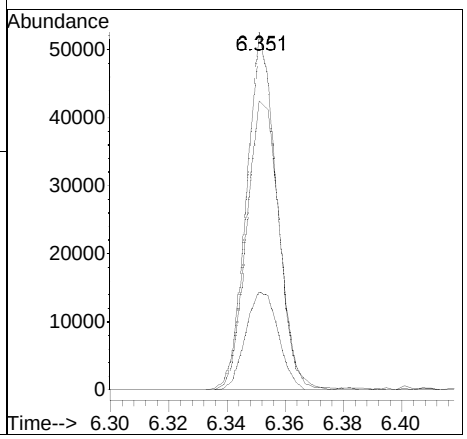


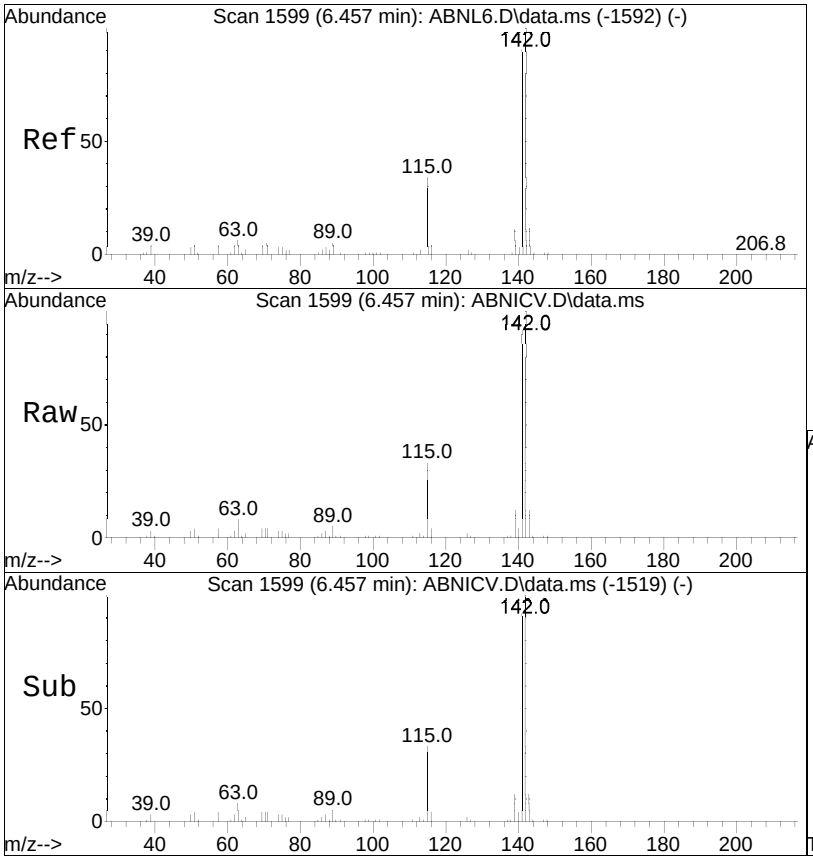


#40
p-Chloro-m-cresol
Concen: 4.80 ug/ml
RT: 6.351 min Scan# 1565
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 18 Jun 2024 7:10 pm

Tgt Ion:107 Resp: 37491

Ion	Ratio	Lower	Upper
107	100		
144	29.7	20.9	31.3
142	87.2	66.1	99.1

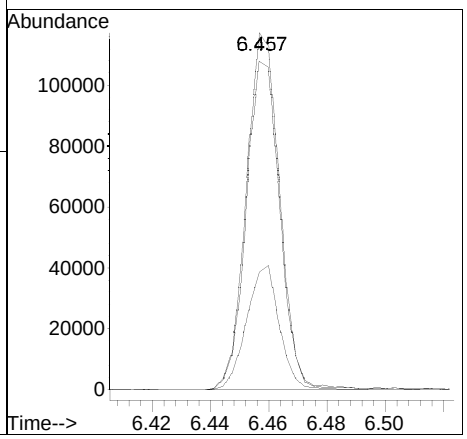


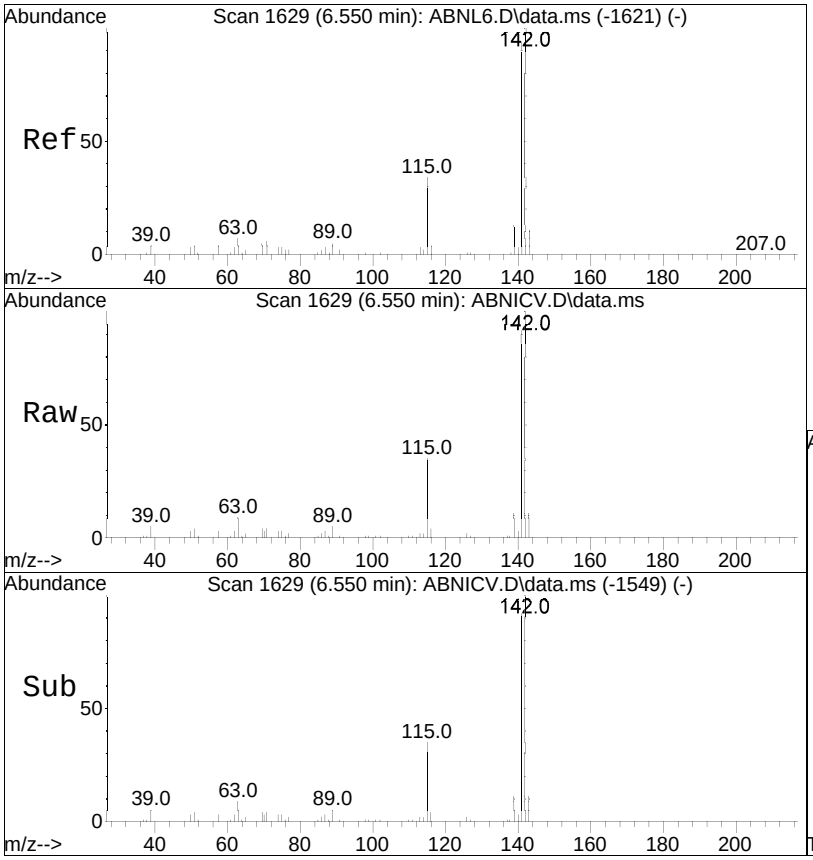


#41
2-Methylnaphthalene
Concen: 4.65 ug/ml
RT: 6.457 min Scan# 1599
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 18 Jun 2024 7:10 pm

Tgt Ion:142 Resp: 93522

Ion	Ratio	Lower	Upper
142	100		
141	92.6	69.6	104.4
115	34.2	26.6	40.0

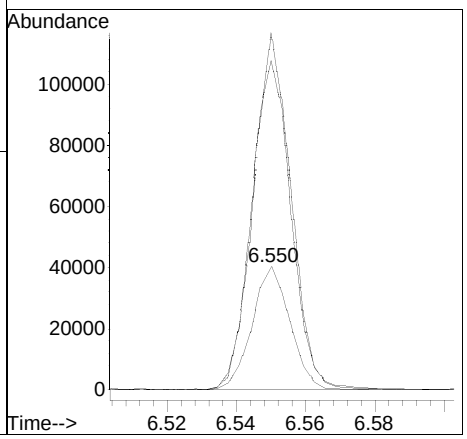


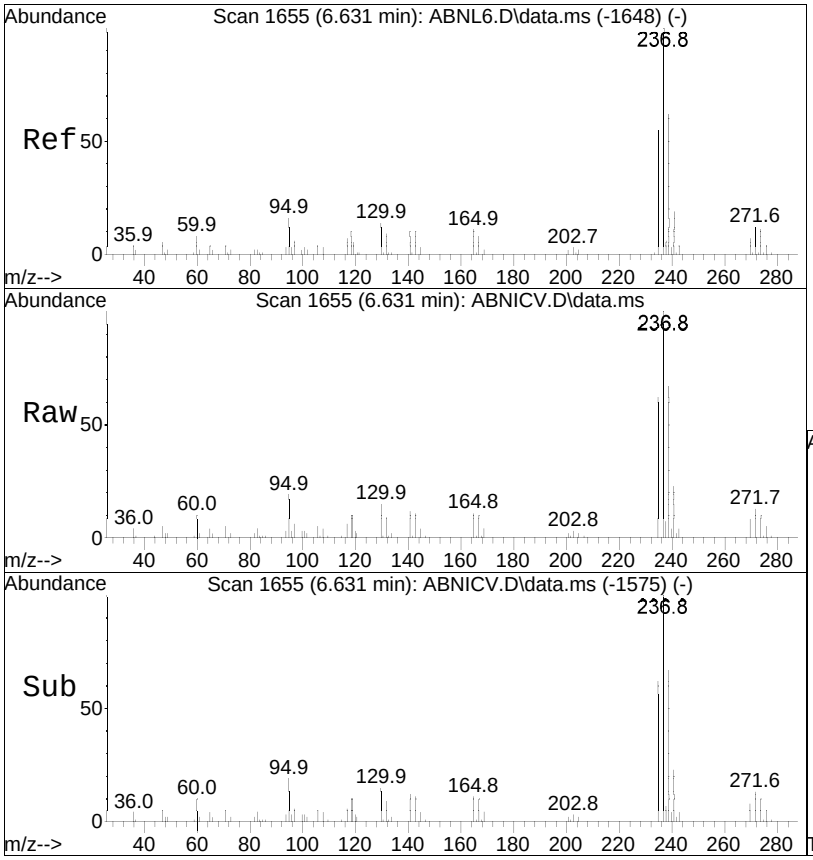


#42
1-Methylnaphthalene
Concen: 4.71 ug/ml
RT: 6.550 min Scan# 1629
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 18 Jun 2024 7:10 pm

Tgt Ion:115 Resp: 31058

Ion	Ratio	Lower	Upper
115	100		
141	273.7	207.8	311.6
142	285.4	226.8	340.2

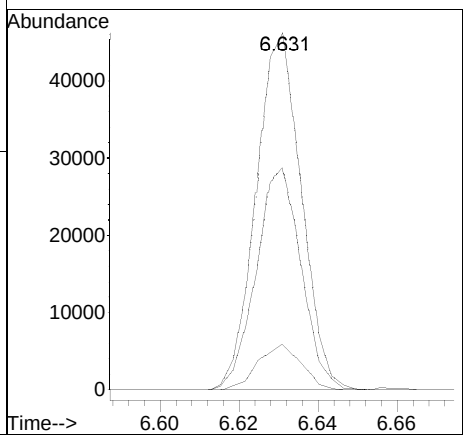


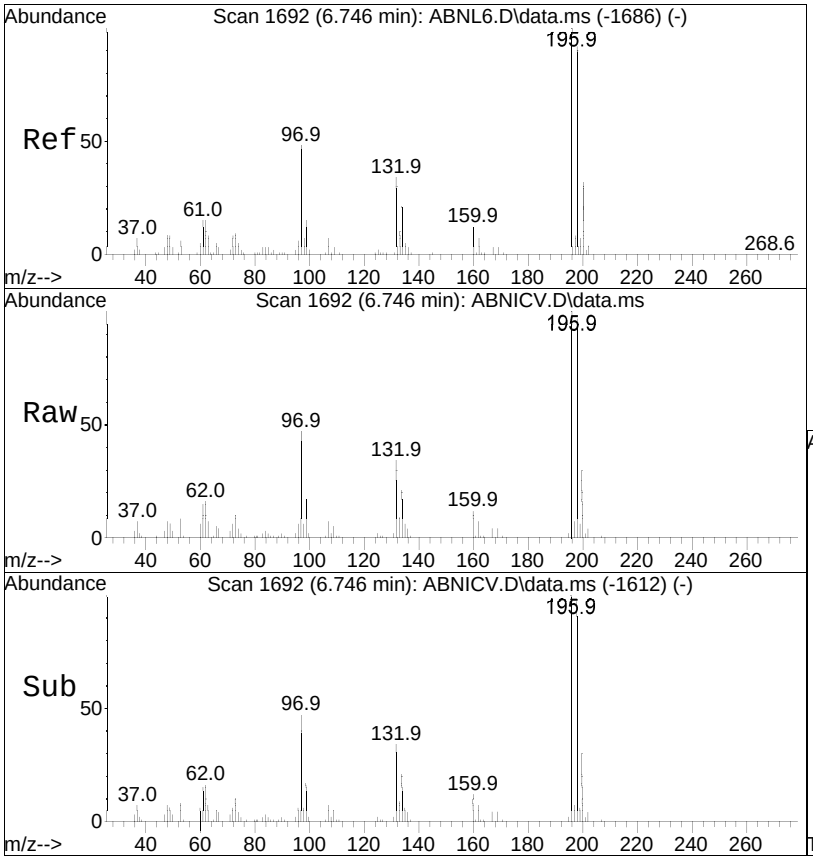


#43
Hexachlorocyclopentadiene
Concen: 4.69 ug/ml
RT: 6.631 min Scan# 1655
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 18 Jun 2024 7:10 pm

Tgt Ion:237 Resp: 36574

Ion	Ratio	Lower	Upper
237	100		
235	62.1	49.7	74.5
272	12.4	9.8	14.6

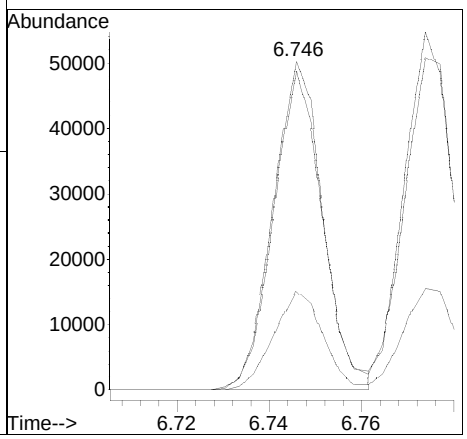


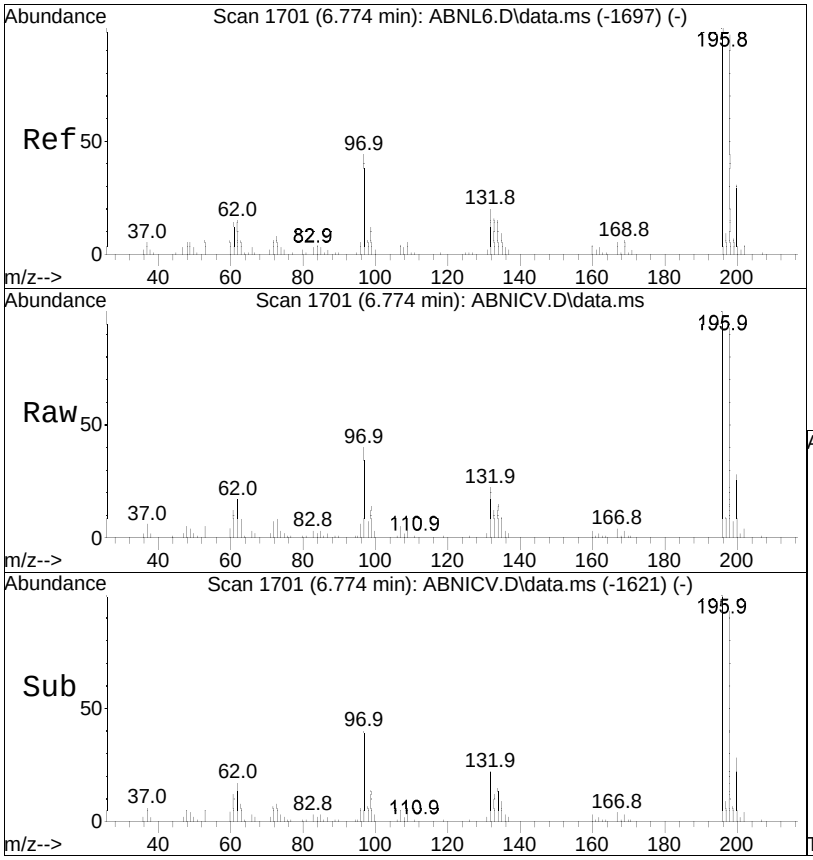


#44
2,4,6-Trichlorophenol
Concen: 4.75 ug/ml
RT: 6.746 min Scan# 1692
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 18 Jun 2024 7:10 pm

Tgt Ion:196 Resp: 37725

Ion	Ratio	Lower	Upper
196	100		
198	95.2	77.5	116.3
200	30.0	23.8	35.6

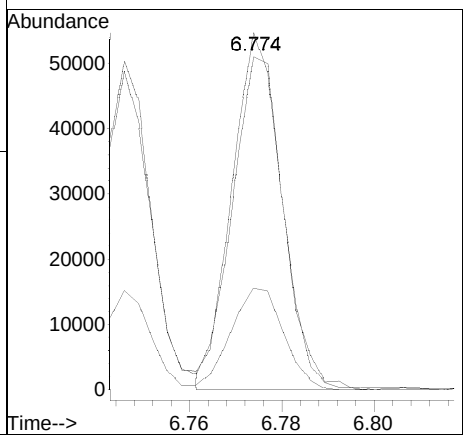


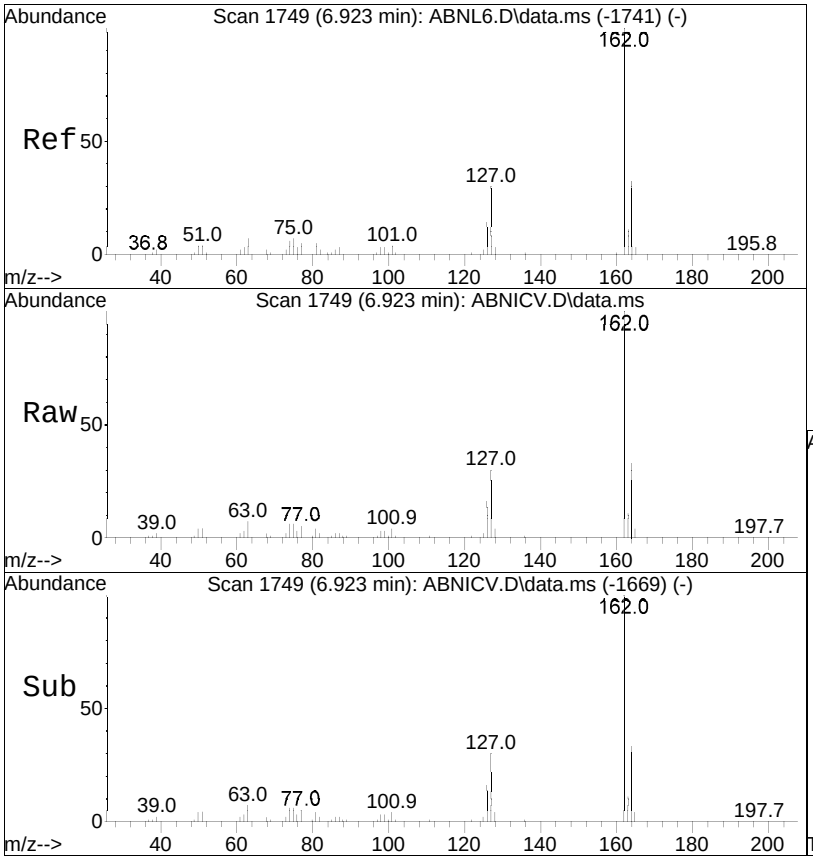


#45
2,4,5-Trichlorophenol
Concen: 4.84 ug/ml
RT: 6.774 min Scan# 1701
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 18 Jun 2024 7:10 pm

Tgt Ion:196 Resp: 41117

Ion	Ratio	Lower	Upper
196	100		
200	30.2	25.4	38.0
198	96.7	78.0	117.0

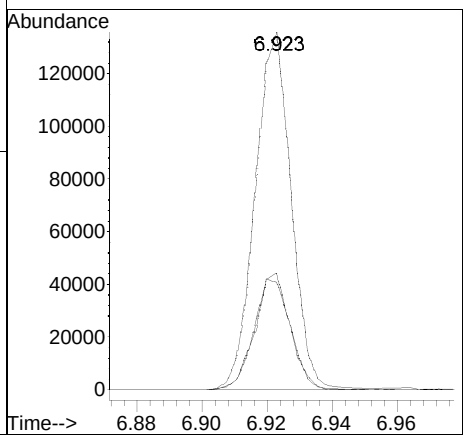


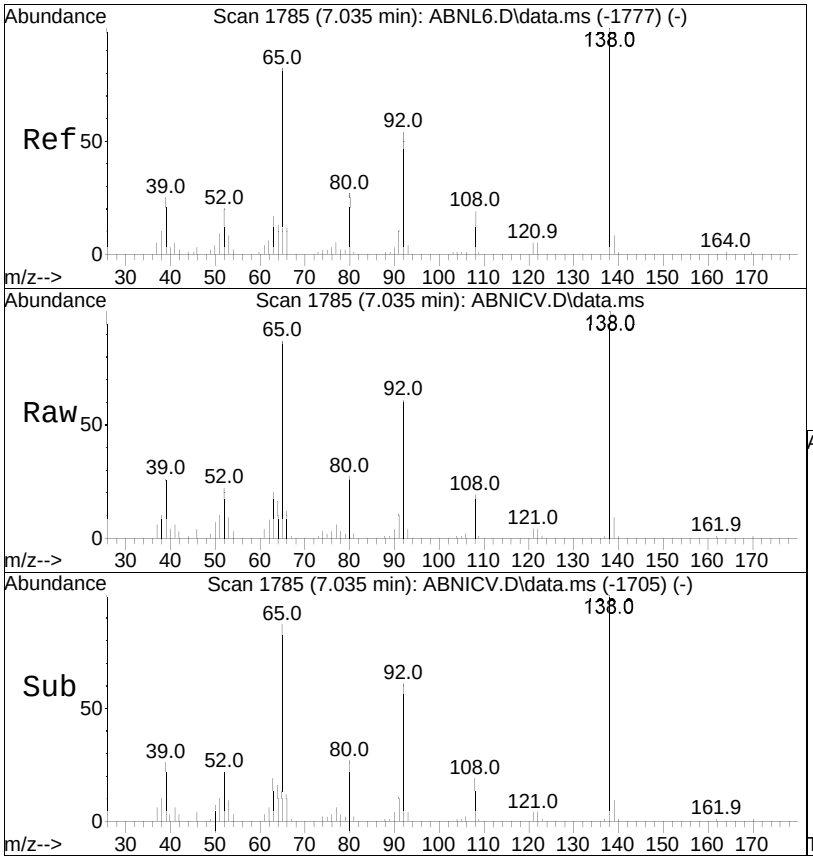


#47
2-Chloronaphthalene
Concen: 4.63 ug/ml
RT: 6.923 min Scan# 1749
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 18 Jun 2024 7:10 pm

Tgt Ion:162 Resp: 103216

Ion	Ratio	Lower	Upper
162	100		
127	31.4	32.2	48.4#
164	32.4	25.7	38.5

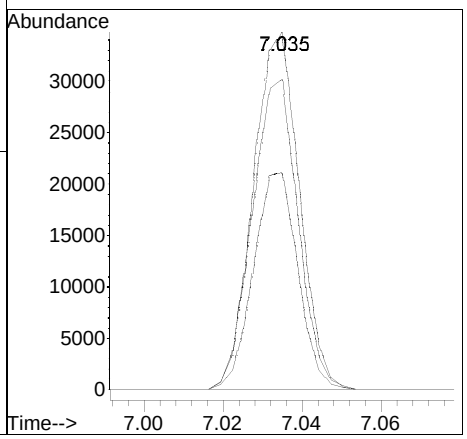


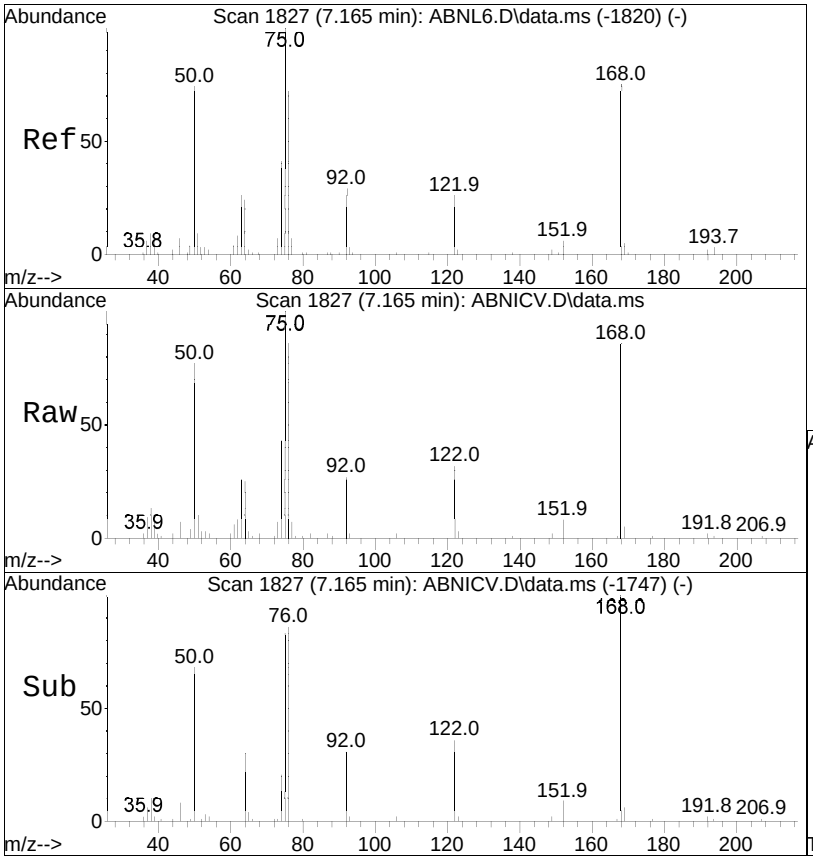


#48
2-Nitroaniline
Concen: 4.70 ug/ml
RT: 7.035 min Scan# 1785
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 18 Jun 2024 7:10 pm

Tgt Ion:138 Resp: 27916

Ion	Ratio	Lower	Upper
138	100		
92	58.8	53.5	80.3
65	86.8	86.3	129.5

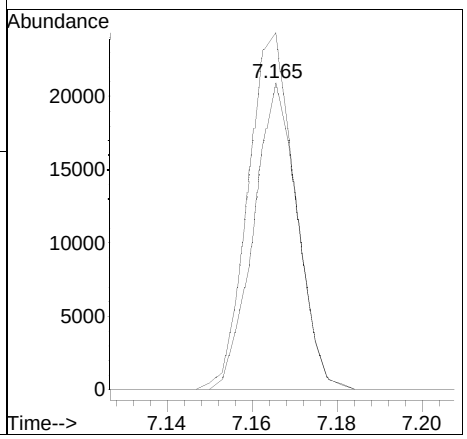


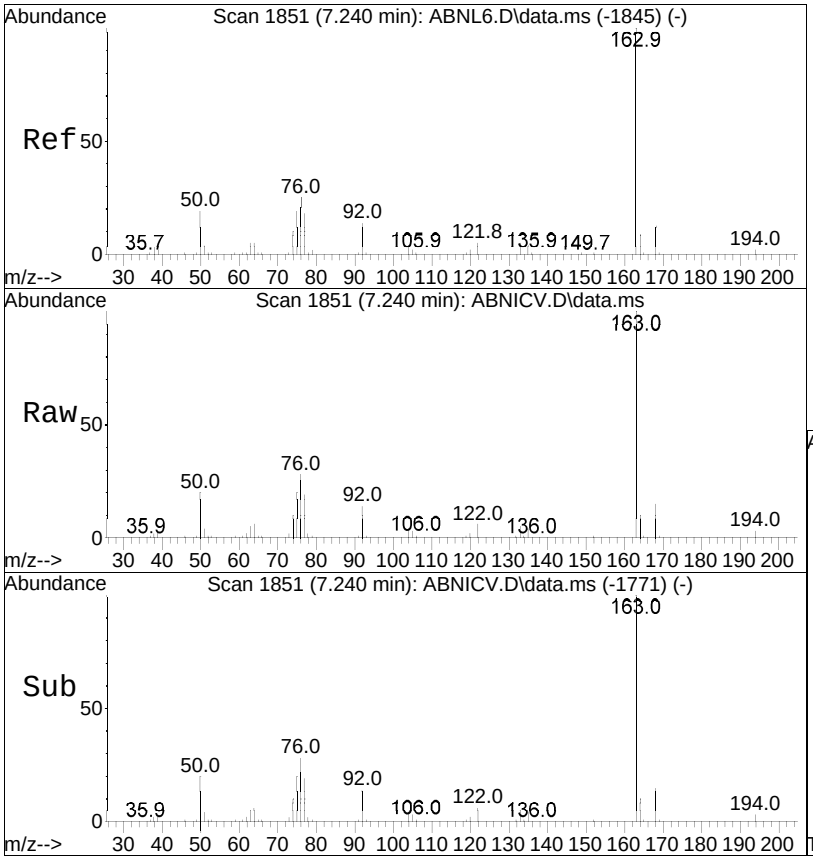


#49
1,4-Dinitrobenzene
Concen: 4.76 ug/ml
RT: 7.165 min Scan# 1827
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 18 Jun 2024 7:10 pm

Tgt Ion:168 Resp: 15031

Ion	Ratio	Lower	Upper
168	100		
75	124.1	121.8	182.8

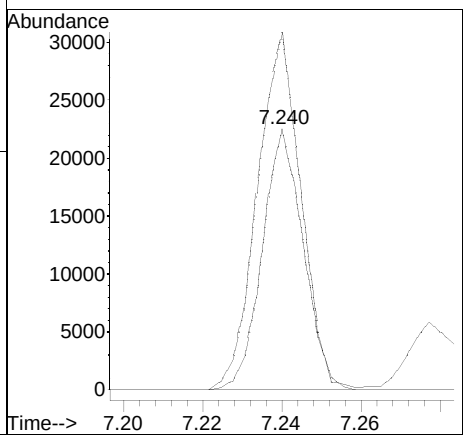


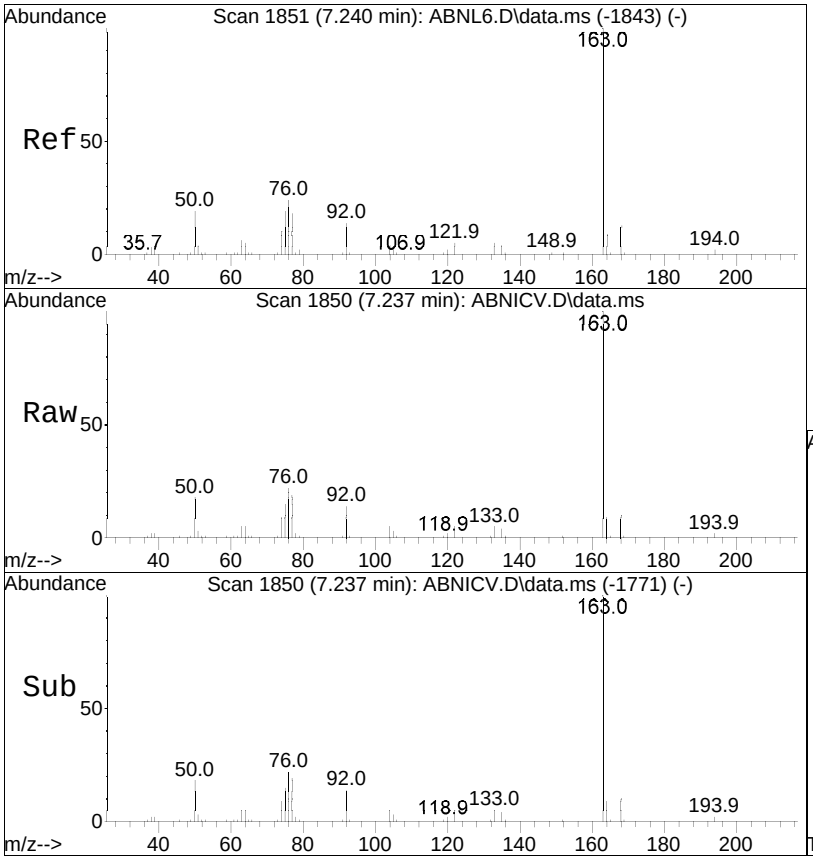


#50
1,3-Dinitrobenzene
Concen: 4.72 ug/ml
RT: 7.240 min Scan# 1851
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 18 Jun 2024 7:10 pm

Tgt Ion:168 Resp: 16051

Ion	Ratio	Lower	Upper
168	100		
75	145.5	22.7	34.1#

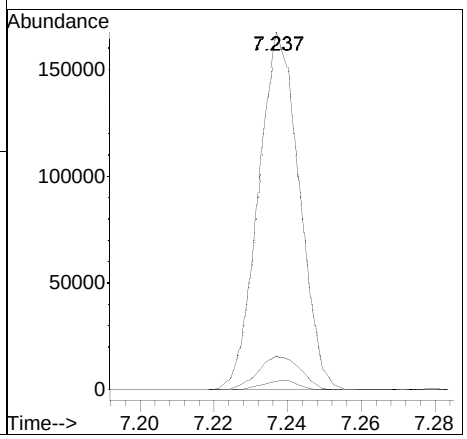


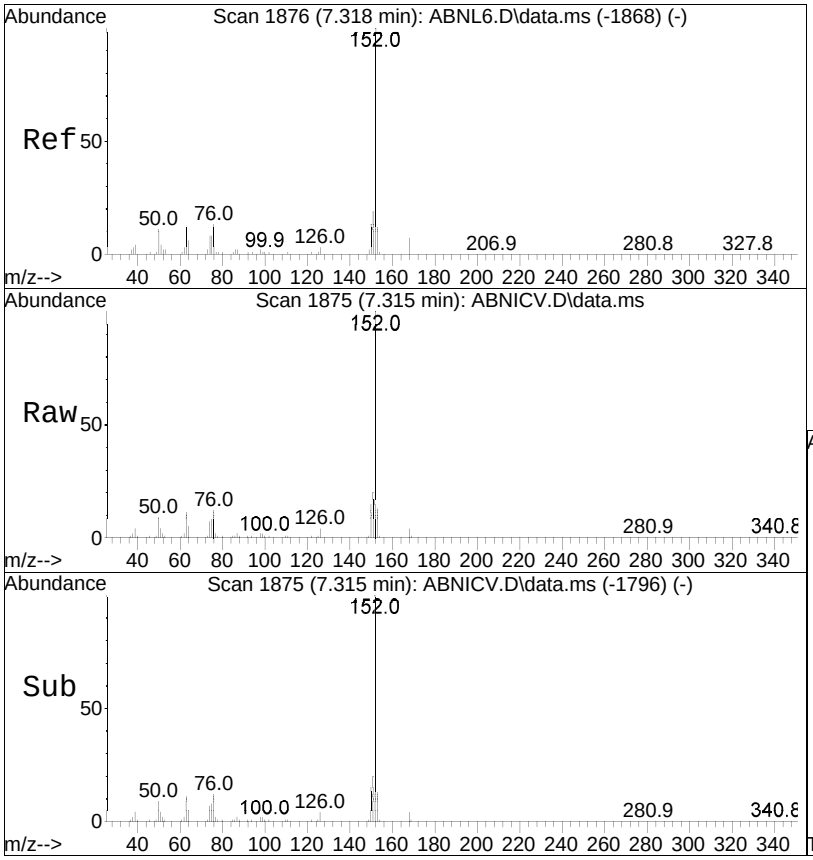


#51
Dimethyl phthalate
Concen: 4.61 ug/ml
RT: 7.237 min Scan# 1850
Delta R.T. -0.003 min
Lab File: ABNICV.D
Acq: 18 Jun 2024 7:10 pm

Tgt Ion:163 Resp: 127852

Ion	Ratio	Lower	Upper
163	100		
194	2.5	3.5	5.3#
164	10.0	7.9	11.9

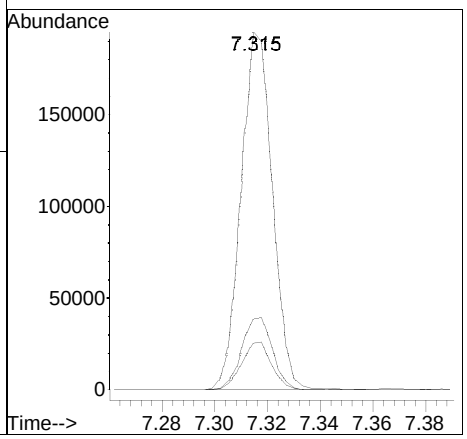


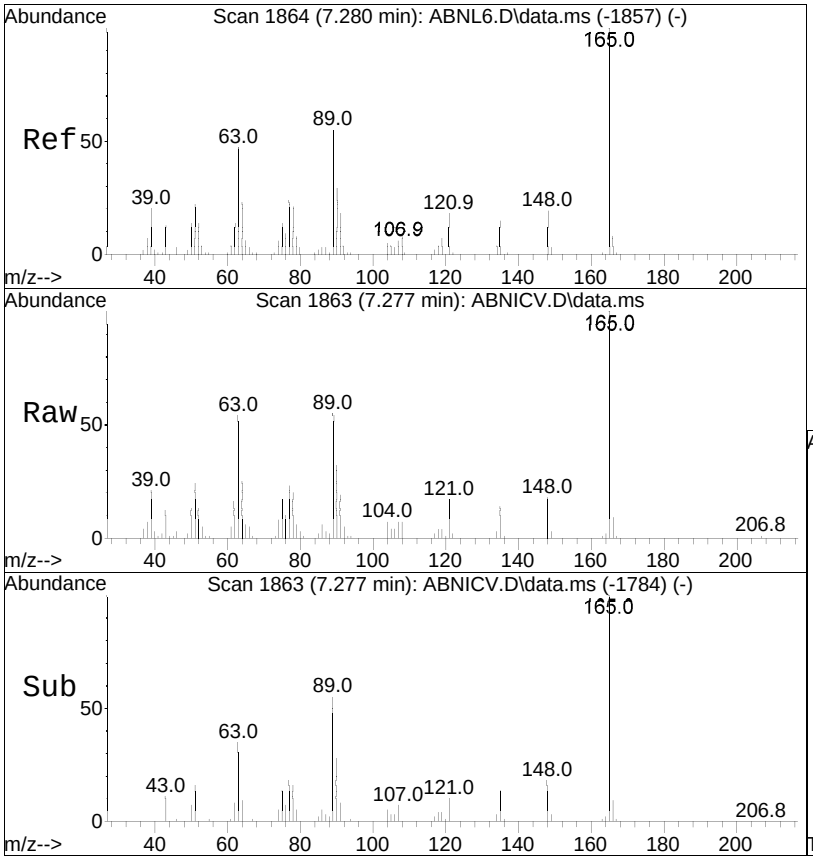


#52
Acenaphthylene
Concen: 4.81 ug/ml
RT: 7.315 min Scan# 1875
Delta R.T. -0.003 min
Lab File: ABNICV.D
Acq: 18 Jun 2024 7:10 pm

Tgt Ion:152 Resp: 160020

Ion	Ratio	Lower	Upper
152	100		
151	19.9	15.8	23.6
153	12.9	10.5	15.7

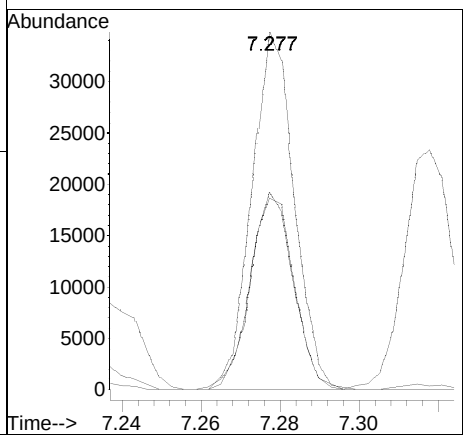


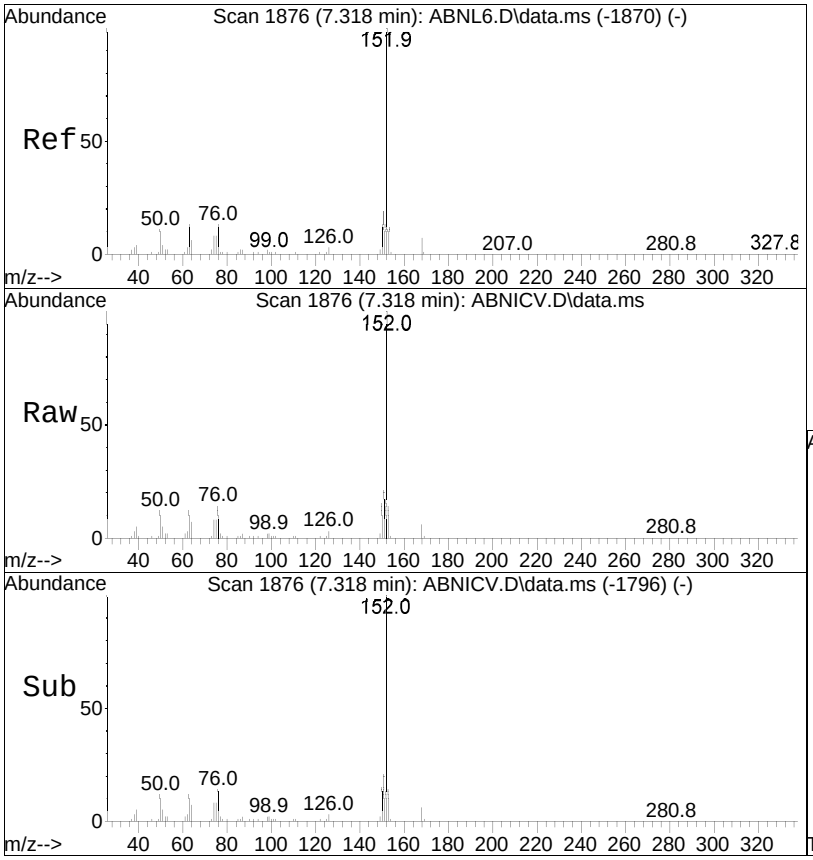


#53
2,6-Dinitrotoluene
Concen: 4.75 ug/ml
RT: 7.277 min Scan# 1863
Delta R.T. -0.003 min
Lab File: ABNICV.D
Acq: 18 Jun 2024 7:10 pm

Tgt Ion:165 Resp: 26005

Ion	Ratio	Lower	Upper
165	100		
89	55.5	54.2	81.2
63	56.5	64.2	96.2#

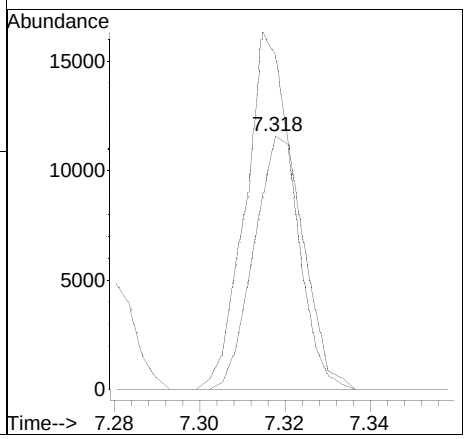


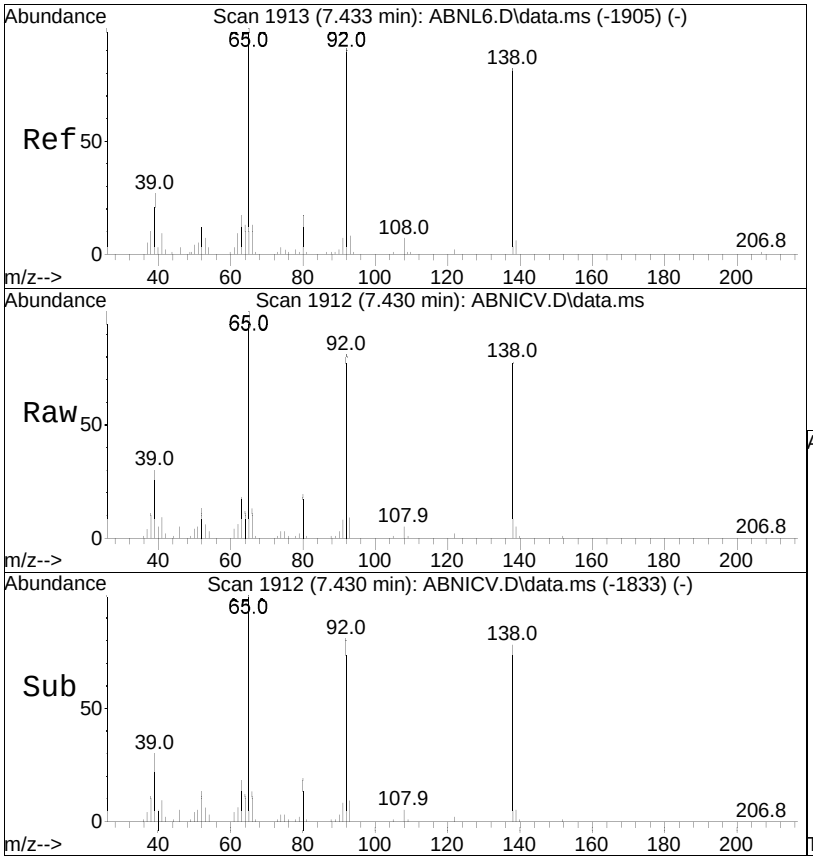


#54
1,2-Dinitrobenzene
Concen: 4.76 ug/ml
RT: 7.318 min Scan# 1876
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 18 Jun 2024 7:10 pm

Tgt Ion:168 Resp: 9488

Ion	Ratio	Lower	Upper
168	100		
75	133.2	30.9	46.3#

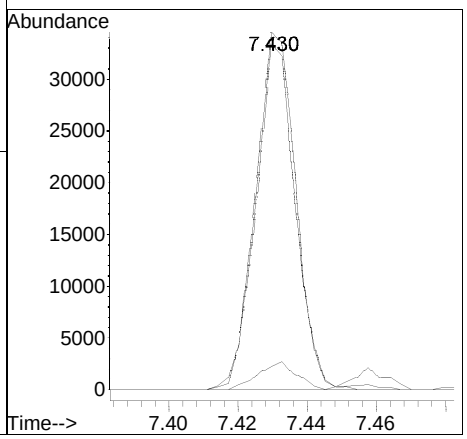


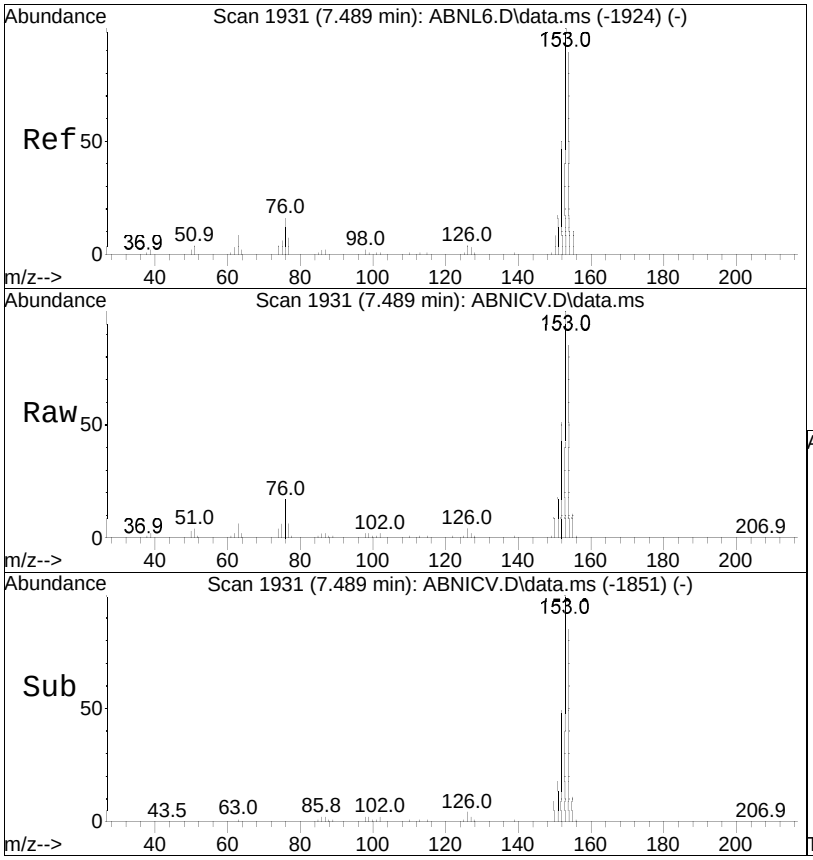


#64
3-Nitroaniline
Concen: 4.73 ug/ml
RT: 7.430 min Scan# 1912
Delta R.T. -0.003 min
Lab File: ABNICV.D
Acq: 18 Jun 2024 7:10 pm

Tgt Ion:138 Resp: 26142

Ion	Ratio	Lower	Upper
138	100		
92	106.3	93.4	140.2
108	7.8	9.5	14.3#

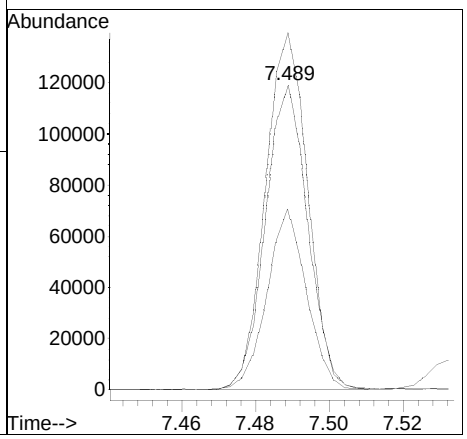


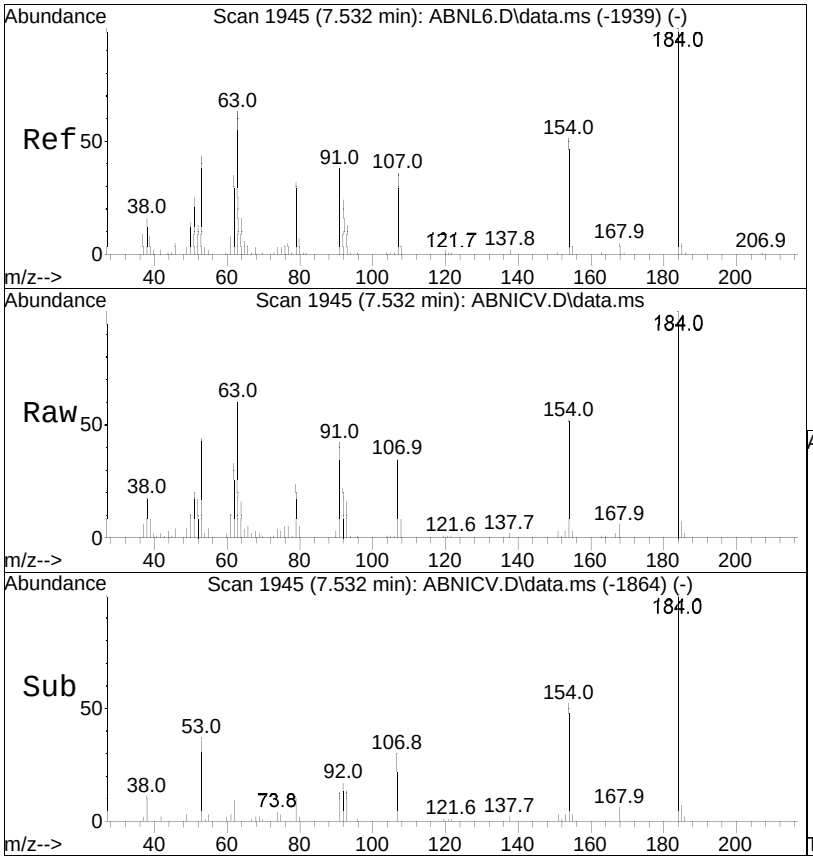


#65
Acenaphthene
Concen: 4.71 ug/ml
RT: 7.489 min Scan# 1931
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 18 Jun 2024 7:10 pm

Tgt Ion:154 Resp: 94690

Ion	Ratio	Lower	Upper
154	100		
153	117.5	85.3	127.9
152	56.4	41.4	62.0

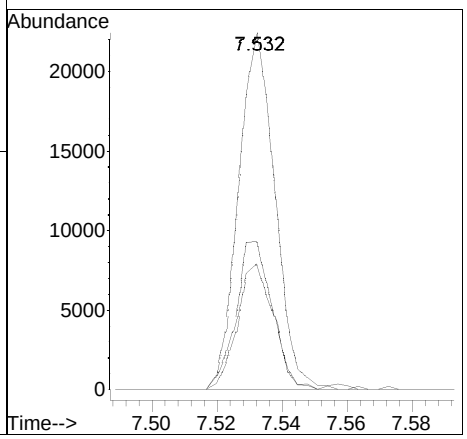


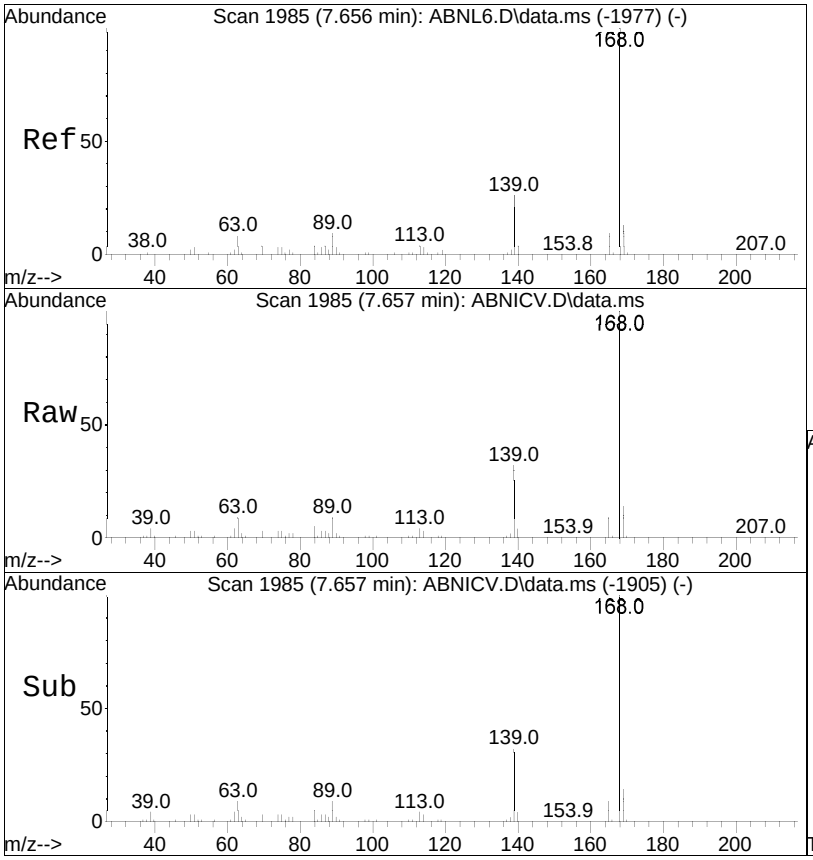


#66
2,4-Dinitrophenol
Concen: 4.40 ug/ml
RT: 7.532 min Scan# 1945
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 18 Jun 2024 7:10 pm

Tgt Ion:184 Resp: 17404

Ion	Ratio	Lower	Upper
184	100		
107	35.0	37.7	56.5#
91	41.7	46.3	69.5#

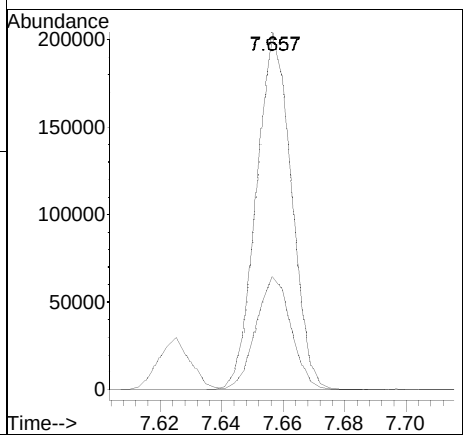


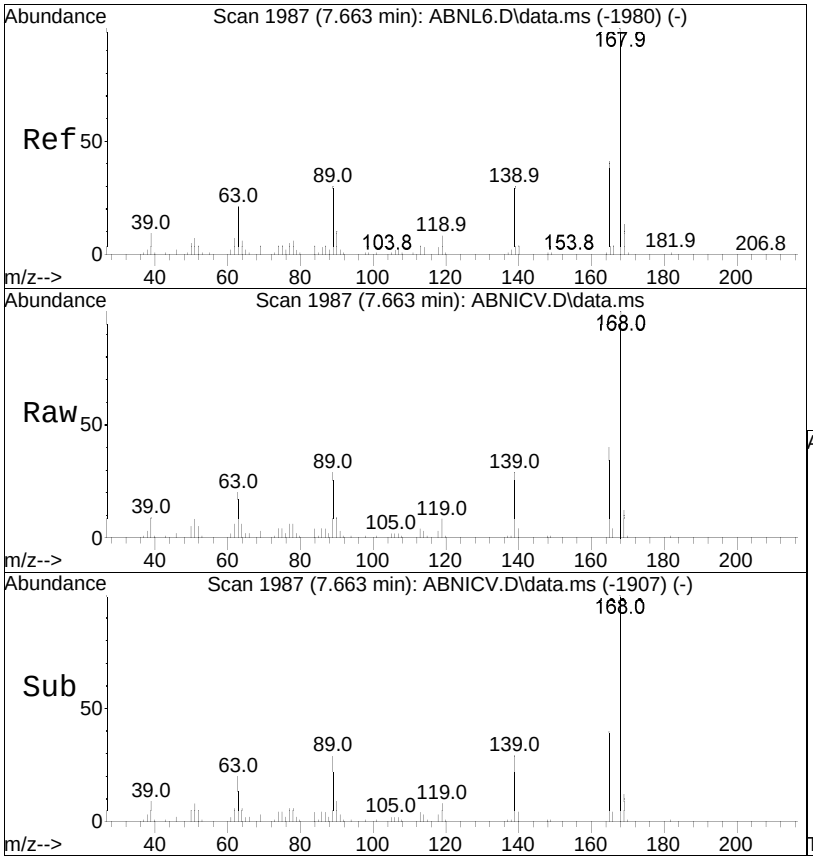


#67
Dibenzofuran
Concen: 4.52 ug/ml
RT: 7.657 min Scan# 1985
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 18 Jun 2024 7:10 pm

Tgt Ion:168 Resp: 160164

Ion	Ratio	Lower	Upper
168	100		
139	31.7	31.4	47.2

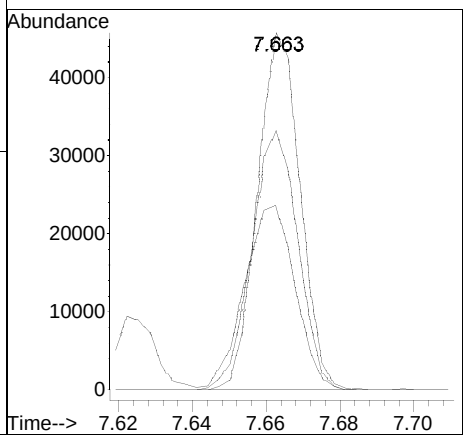


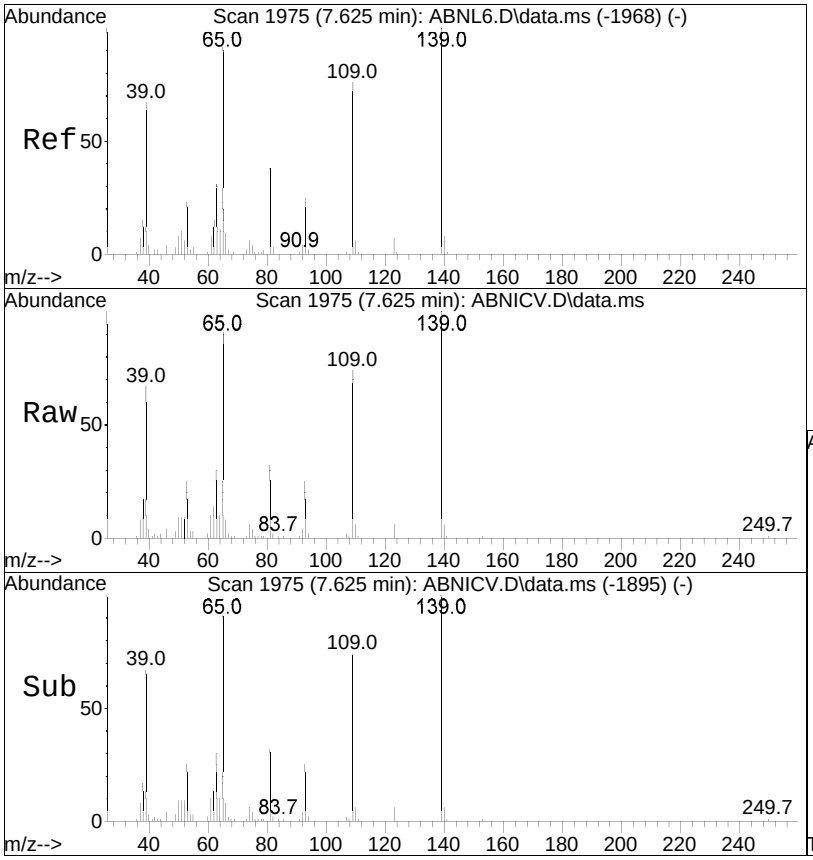


#68
2,4-Dinitrotoluene
Concen: 4.84 ug/ml
RT: 7.663 min Scan# 1987
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 18 Jun 2024 7:10 pm

Tgt Ion:165 Resp: 36363

Ion	Ratio	Lower	Upper
165	100		
89	79.0	72.0	108.0
63	61.9	52.7	79.1

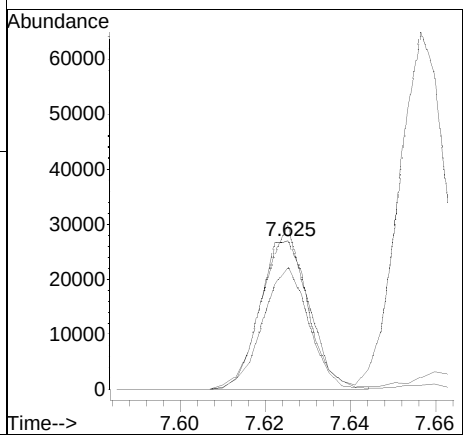


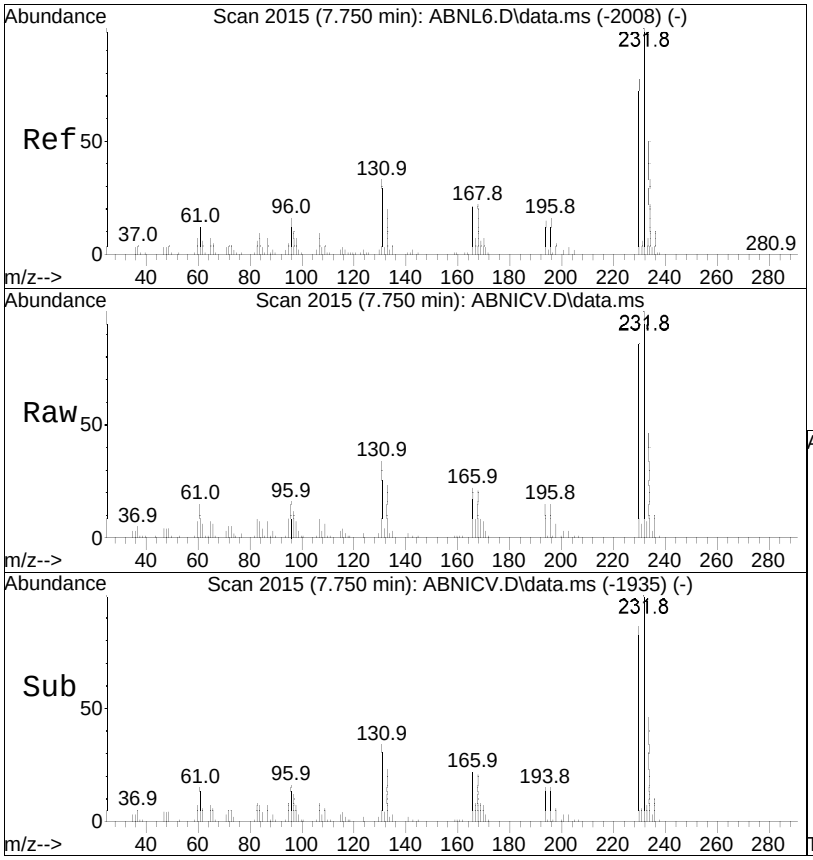


#69
4-Nitrophenol
Concen: 4.69 ug/ml
RT: 7.625 min Scan# 1975
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 18 Jun 2024 7:10 pm

Tgt Ion: 65 Resp: 21715

Ion	Ratio	Lower	Upper
65	100		
109	77.1	47.4	71.2#
139	101.3	76.6	115.0

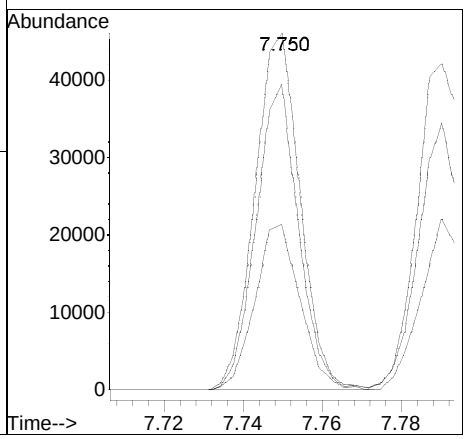


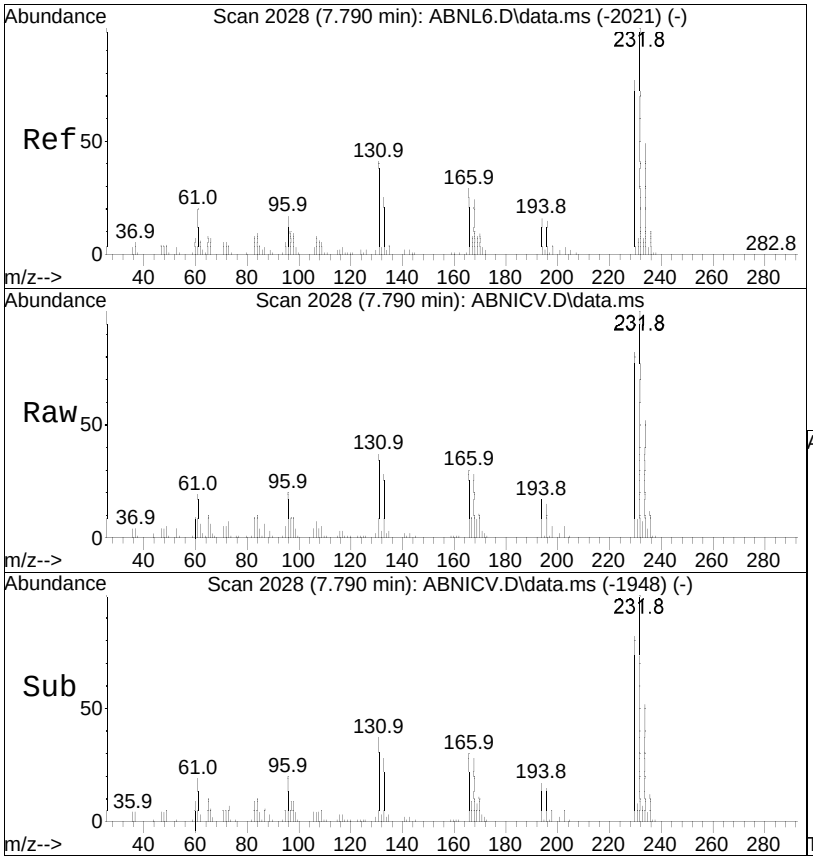


#70
2,3,5,6-Tetrachlorophenol
Concen: 4.60 ug/ml
RT: 7.750 min Scan# 2015
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 18 Jun 2024 7:10 pm

Tgt Ion:232 Resp: 36554

Ion	Ratio	Lower	Upper
232	100		
230	80.8	64.2	96.4
234	46.5	38.1	57.1

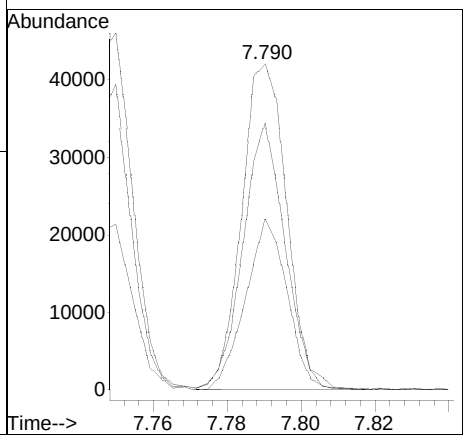


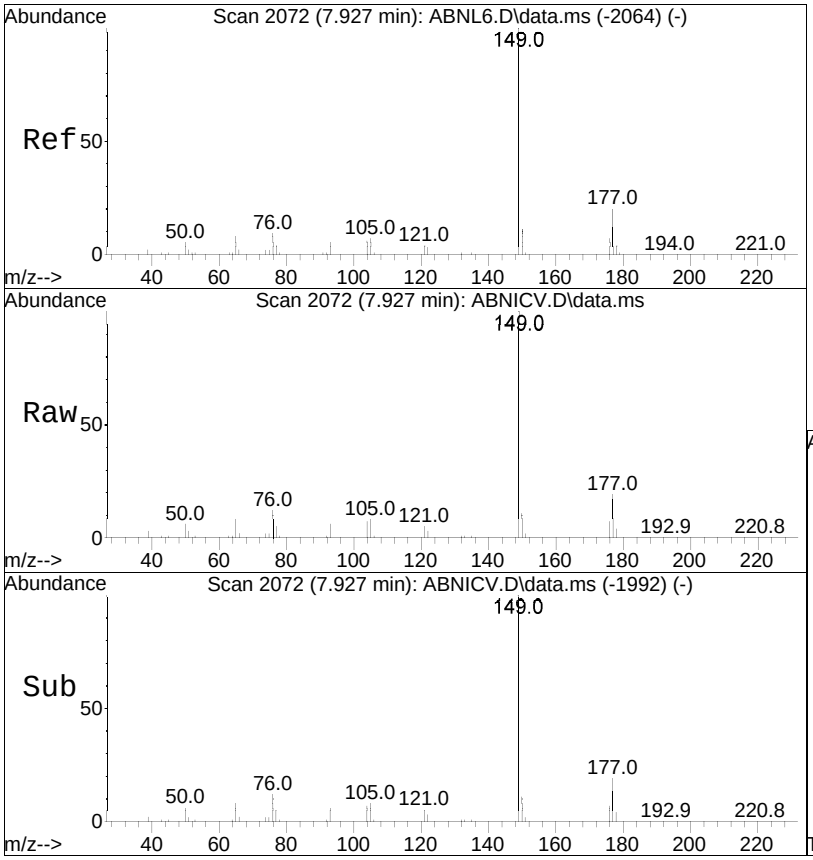


#71
2,3,4,6-Tetrachlorophenol
Concen: 4.75 ug/ml
RT: 7.790 min Scan# 2028
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 18 Jun 2024 7:10 pm

Tgt Ion:232 Resp: 35428

Ion	Ratio	Lower	Upper
232	100		
230	77.5	61.8	92.8
234	49.4	36.2	54.2

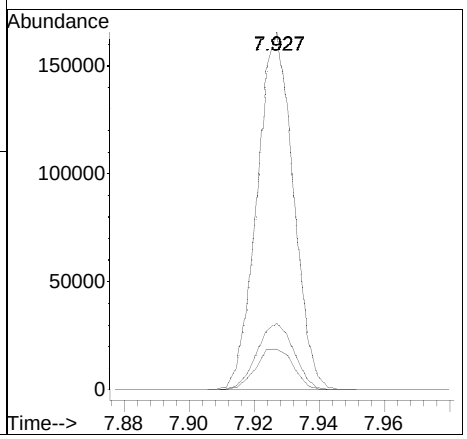


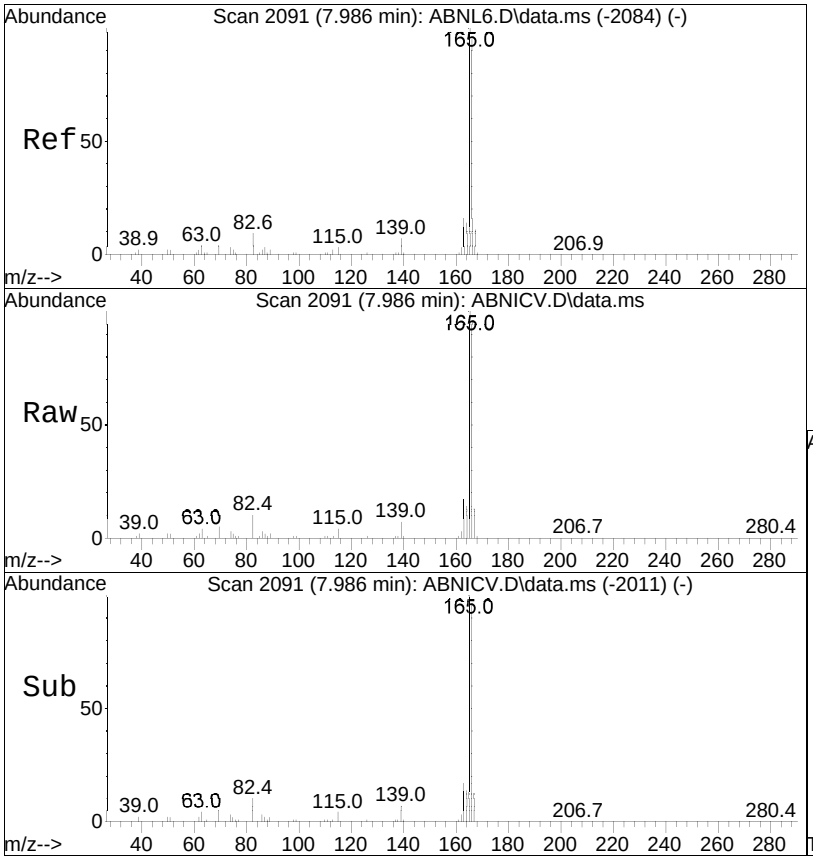


#72
Diethyl phthalate
Concen: 4.41 ug/ml
RT: 7.927 min Scan# 2072
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 18 Jun 2024 7:10 pm

Tgt Ion:149 Resp: 126509

Ion	Ratio	Lower	Upper
149	100		
177	19.2	16.1	24.1
150	12.0	9.4	14.2

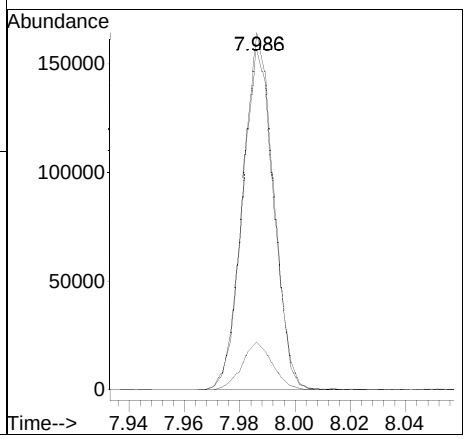


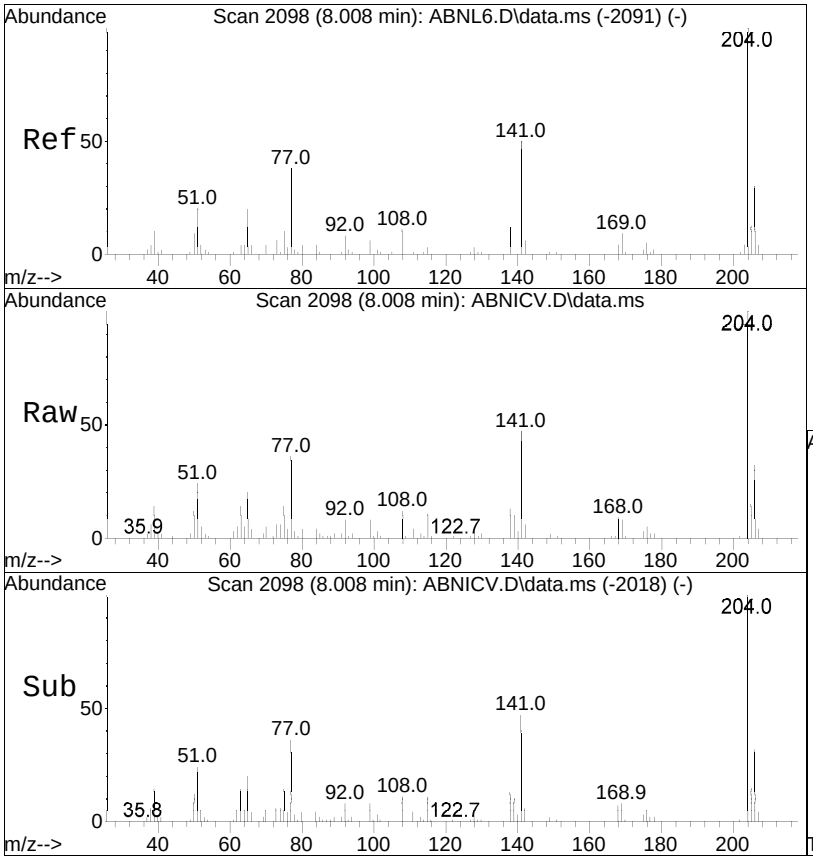


#73
Fluorene
Concen: 4.57 ug/ml
RT: 7.986 min Scan# 2091
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 18 Jun 2024 7:10 pm

Tgt Ion:166 Resp: 123038

Ion	Ratio	Lower	Upper
166	100		
165	103.4	76.2	114.2
167	13.8	10.6	15.8

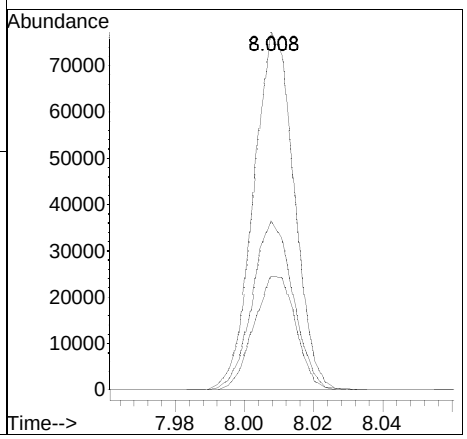


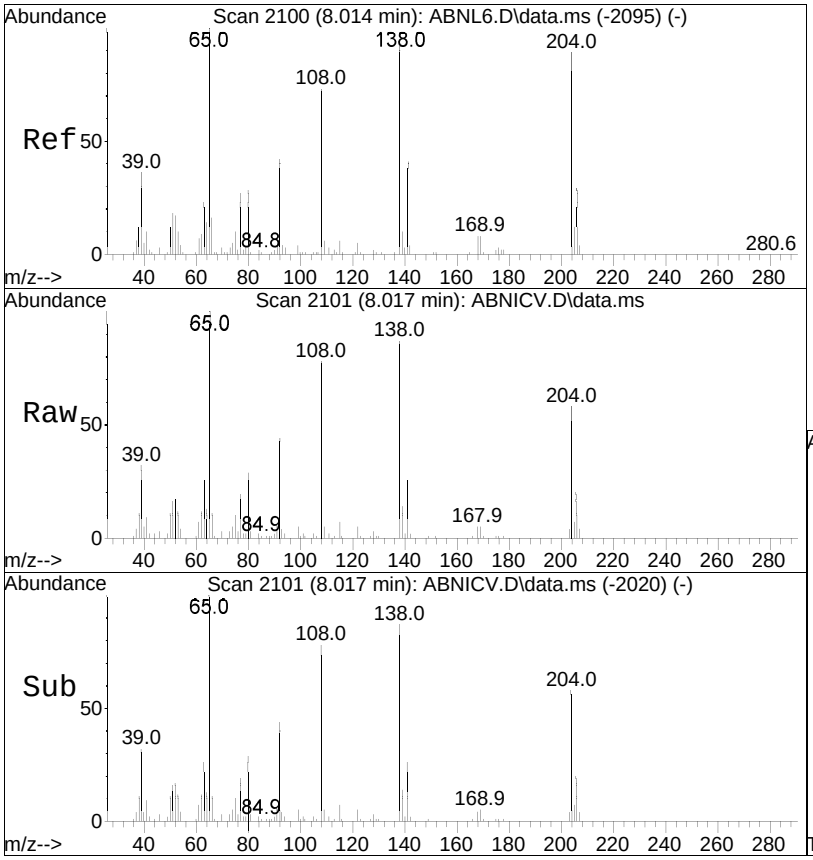


#74
4-Chlorophenyl phenyl ether
Concen: 4.54 ug/ml
RT: 8.008 min Scan# 2098
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 18 Jun 2024 7:10 pm

Tgt Ion:204 Resp: 62368

Ion	Ratio	Lower	Upper
204	100		
206	32.9	25.8	38.6
141	47.6	53.6	80.4#

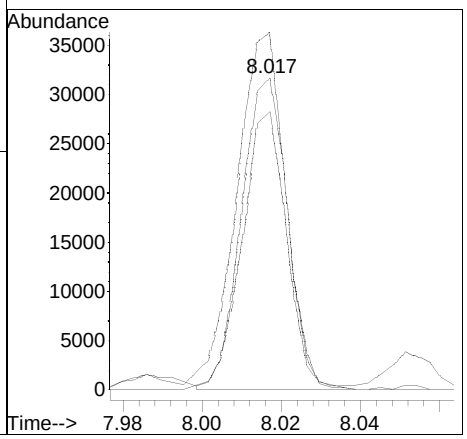


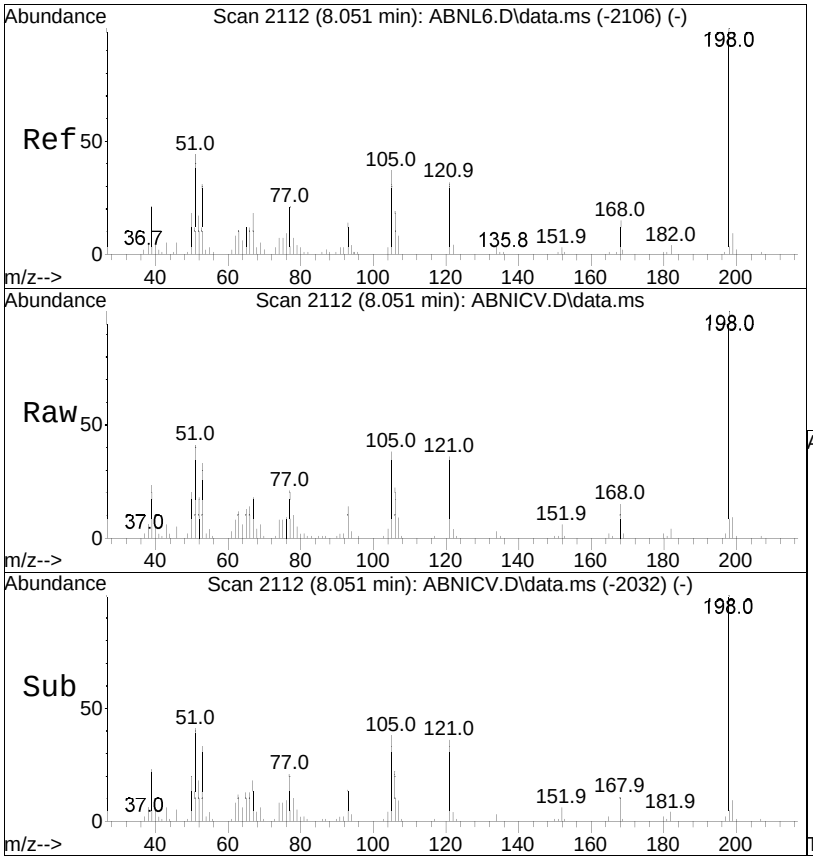


#75
4-Nitroaniline
Concen: 4.69 ug/ml
RT: 8.017 min Scan# 2101
Delta R.T. 0.003 min
Lab File: ABNICV.D
Acq: 18 Jun 2024 7:10 pm

Tgt Ion:138 Resp: 25535

Ion	Ratio	Lower	Upper
138	100		
108	86.5	52.1	78.1#
65	122.0	115.0	172.6

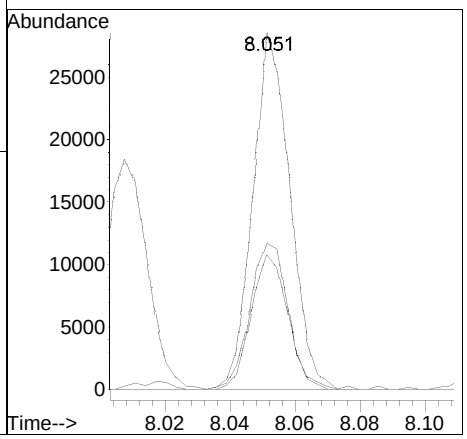


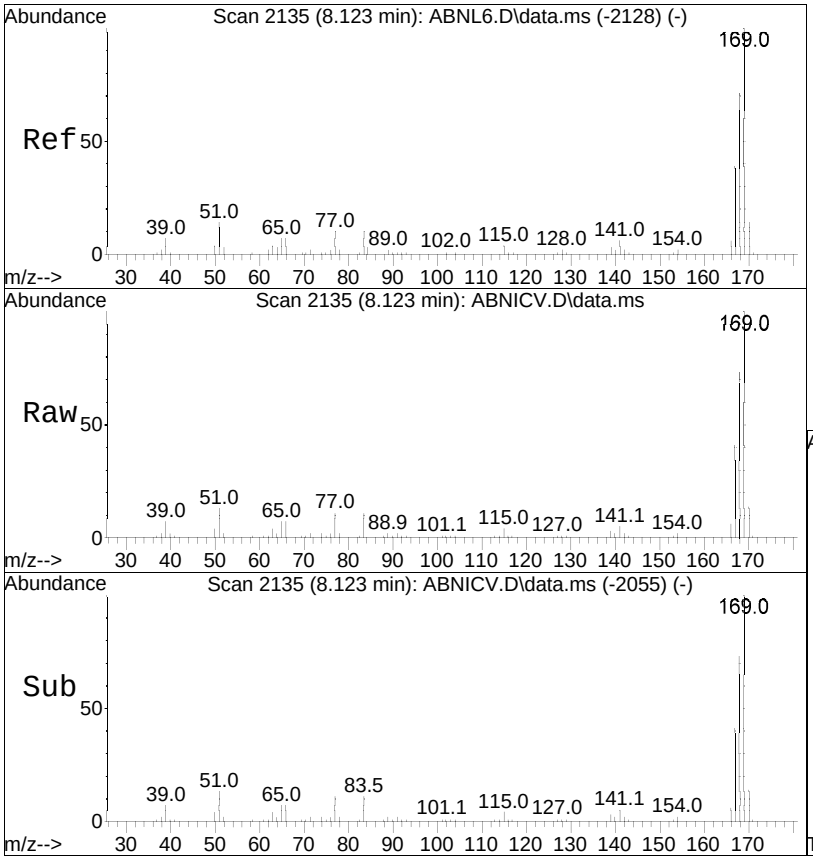


#76
4,6-Dinitro-o-cresol
Concen: 4.76 ug/ml
RT: 8.051 min Scan# 2112
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 18 Jun 2024 7:10 pm

Tgt Ion:198 Resp: 22581

Ion	Ratio	Lower	Upper
198	100		
51	42.5	76.0	114.0#
105	37.3	45.6	68.4#

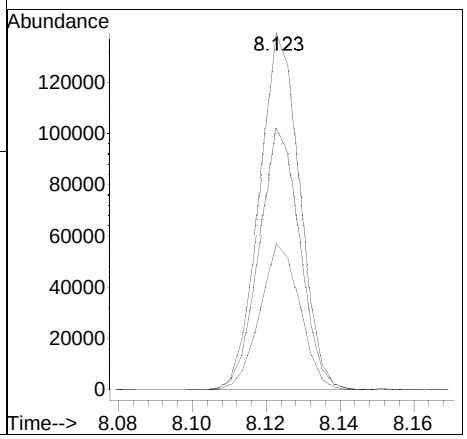


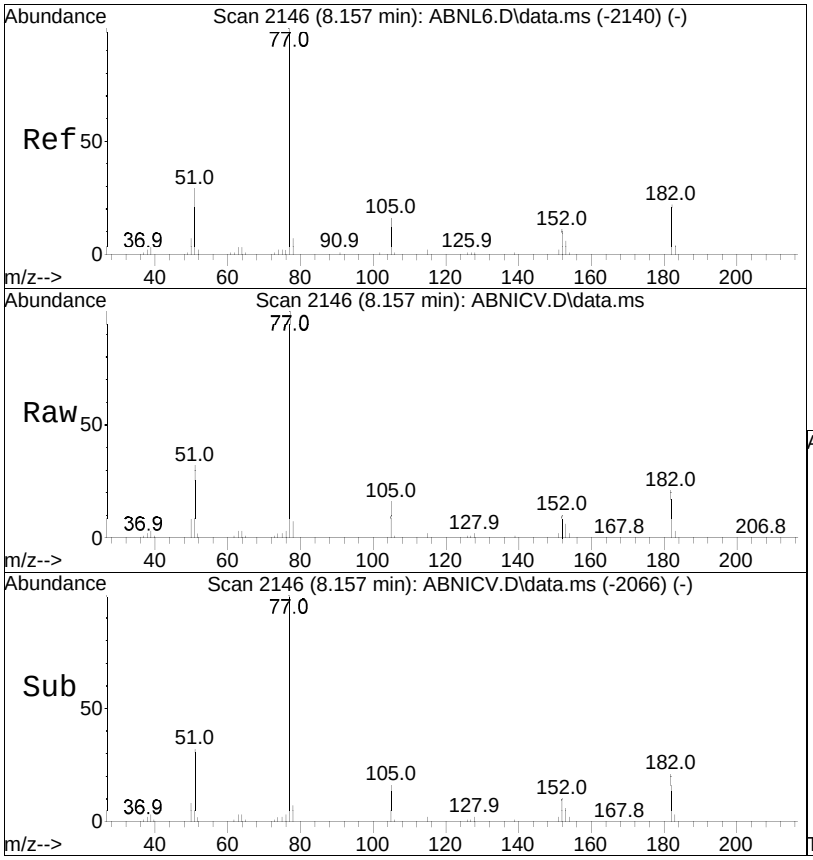


#77
NDPA/DPA
Concen: 4.58 ug/ml
RT: 8.123 min Scan# 2135
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 18 Jun 2024 7:10 pm

Tgt Ion:169 Resp: 105835

Ion	Ratio	Lower	Upper
169	100		
168	73.9	54.0	81.0
167	40.6	28.6	42.8

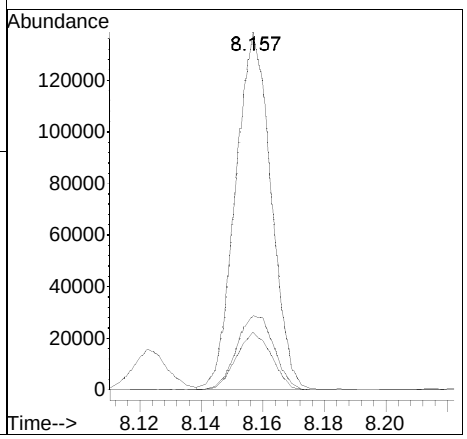


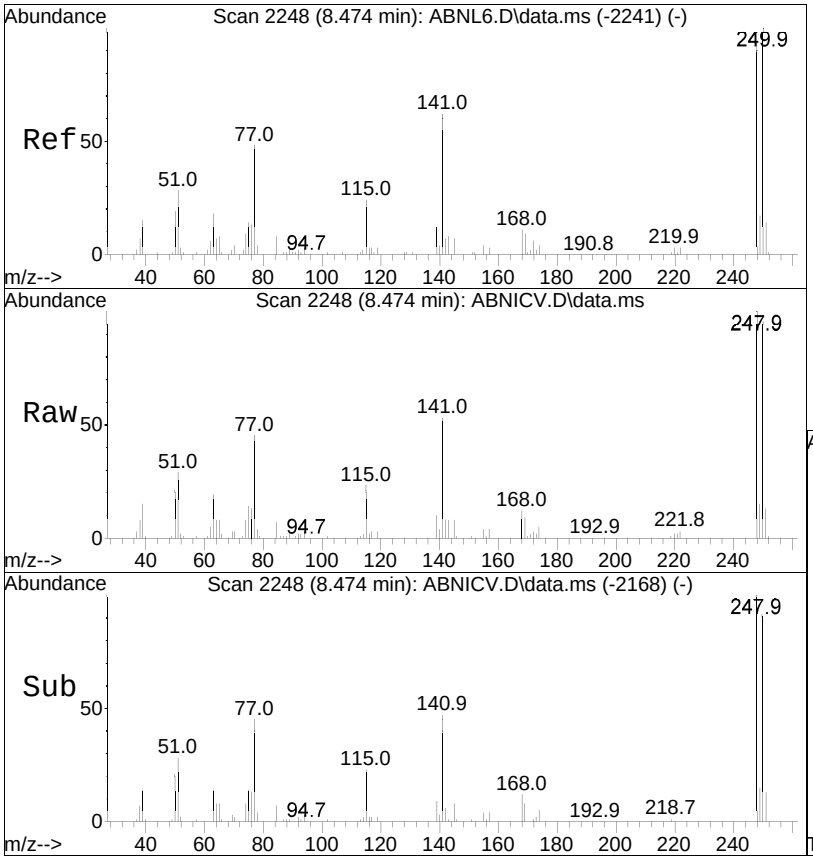


#78
Azobenzene
Concen: 4.74 ug/ml
RT: 8.157 min Scan# 2146
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 18 Jun 2024 7:10 pm

Tgt Ion: 77 Resp: 110365

Ion	Ratio	Lower	Upper
77	100		
182	22.0	17.4	26.2
105	16.1	15.4	23.2

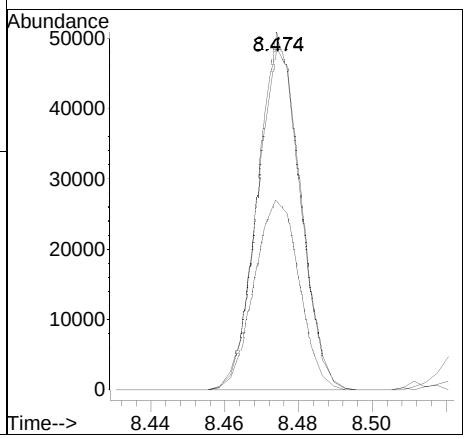


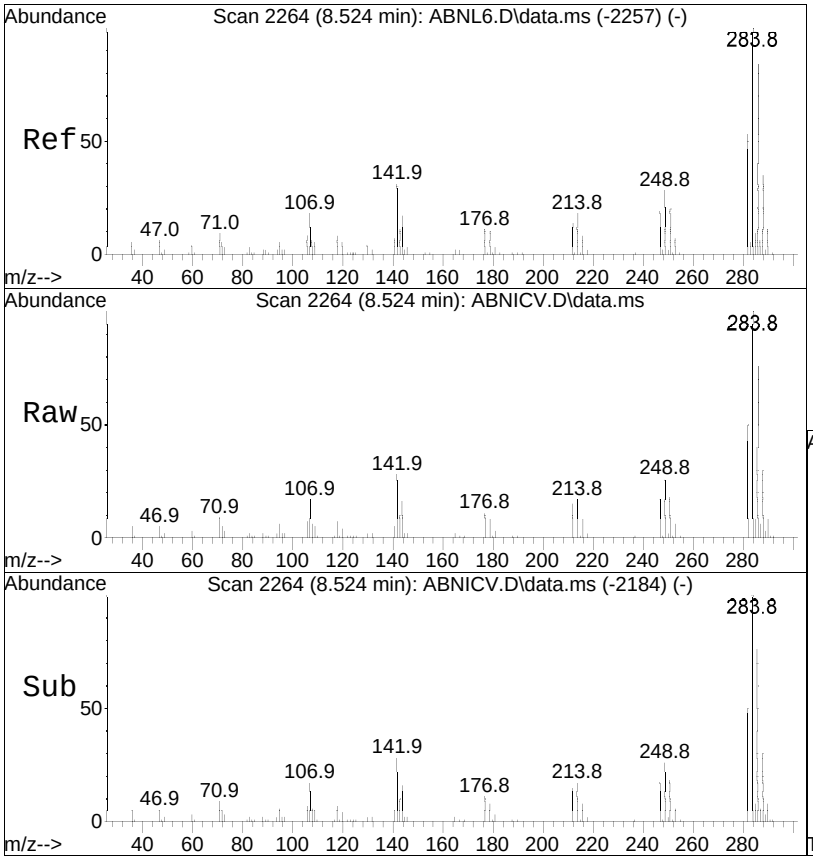


#80
4-Bromophenyl phenyl ether
Concen: 4.37 ug/ml
RT: 8.474 min Scan# 2248
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 18 Jun 2024 7:10 pm

Tgt Ion:248 Resp: 39895

Ion	Ratio	Lower	Upper
248	100		
141	57.0	76.6	114.8#
250	99.8	77.3	115.9

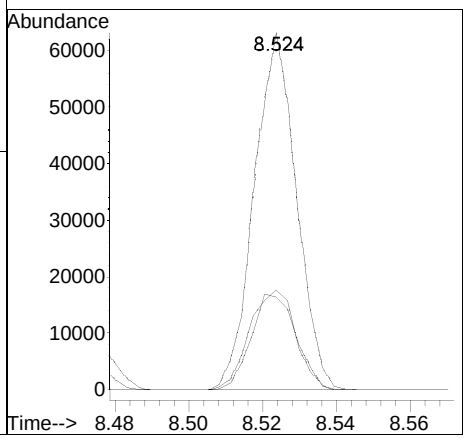


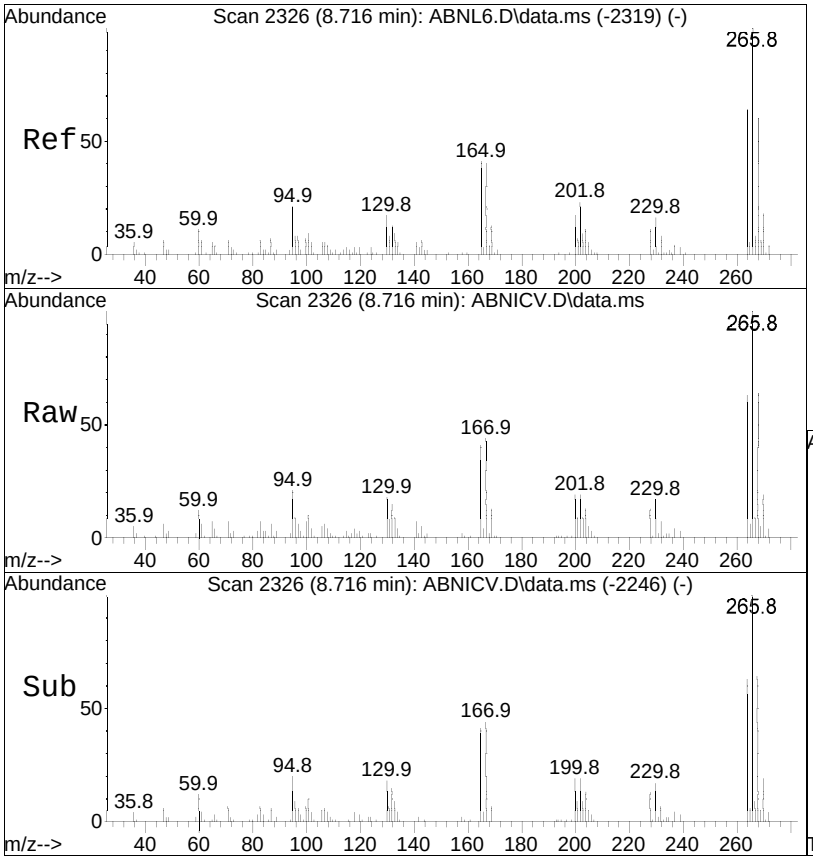


#81
Hexachlorobenzene
Concen: 4.41 ug/ml
RT: 8.524 min Scan# 2264
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 18 Jun 2024 7:10 pm

Tgt Ion:284 Resp: 50000

Ion	Ratio	Lower	Upper
284	100		
142	30.7	41.9	62.9#
249	28.7	24.1	36.1

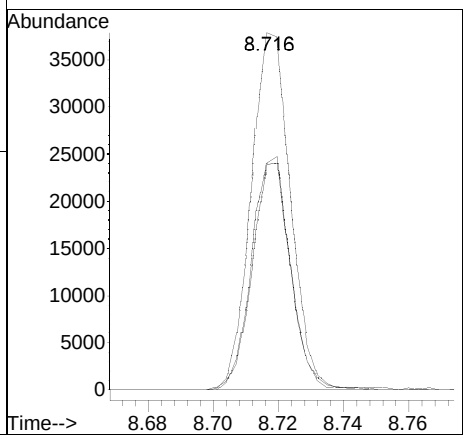


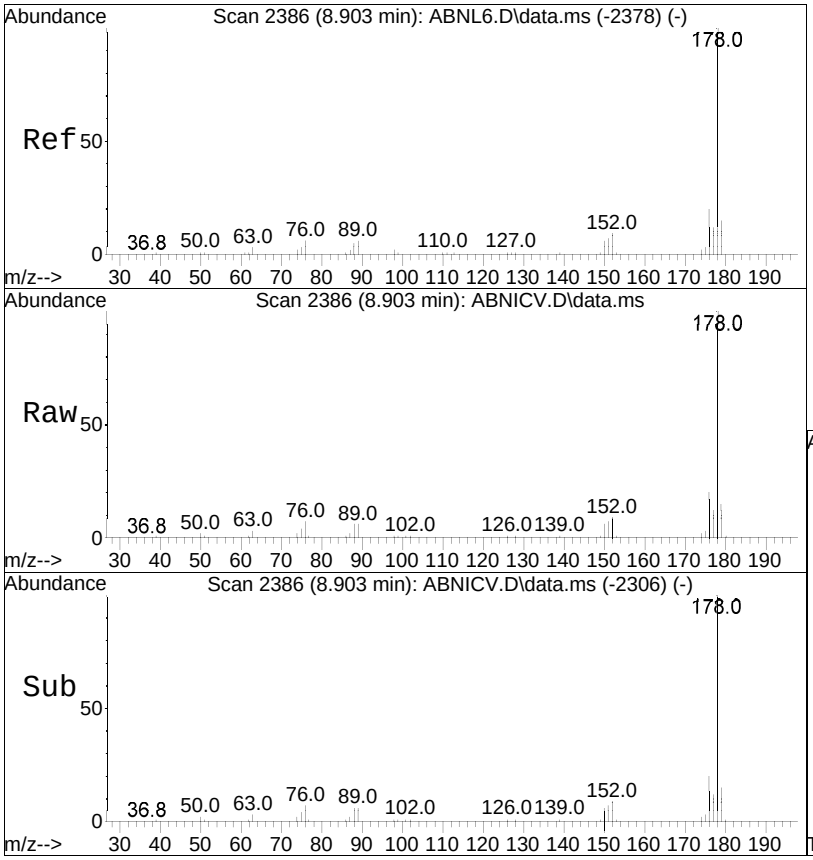


#82
Pentachlorophenol
Concen: 4.65 ug/ml
RT: 8.716 min Scan# 2326
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 18 Jun 2024 7:10 pm

Tgt Ion:266 Resp: 31883

Ion	Ratio	Lower	Upper
266	100		
264	61.6	49.7	74.5
268	64.5	50.5	75.7

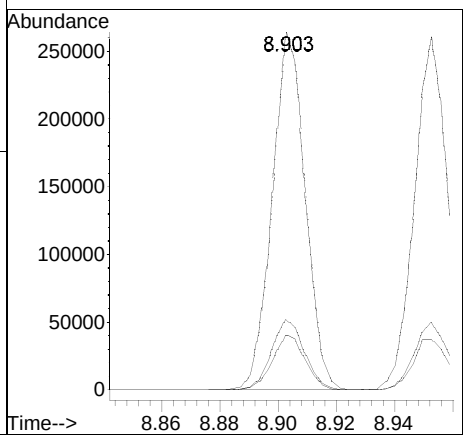


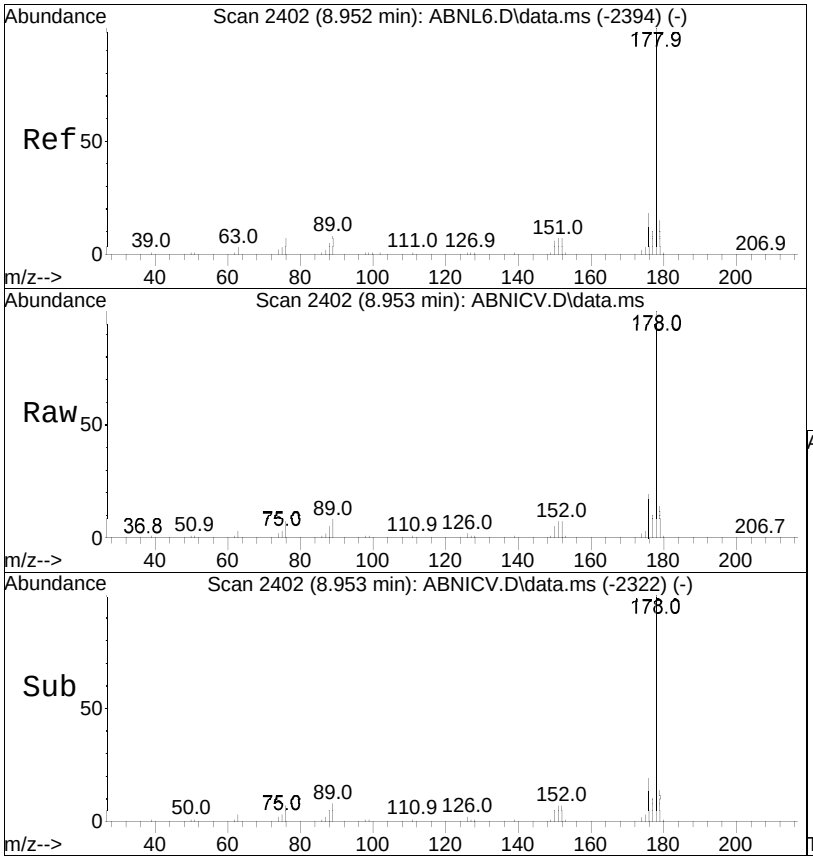


#89
Phenanthrene
Concen: 4.54 ug/ml
RT: 8.903 min Scan# 2386
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 18 Jun 2024 7:10 pm

Tgt Ion:178 Resp: 207829

Ion	Ratio	Lower	Upper
178	100		
179	15.1	12.2	18.2
176	19.7	15.4	23.2

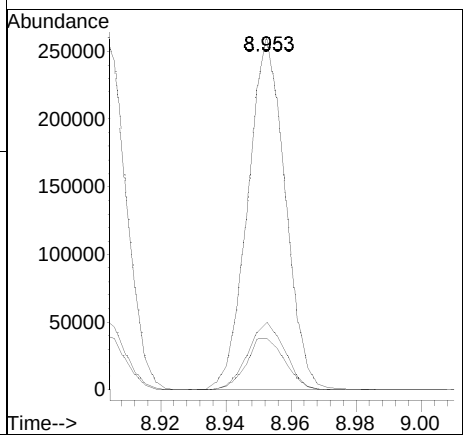


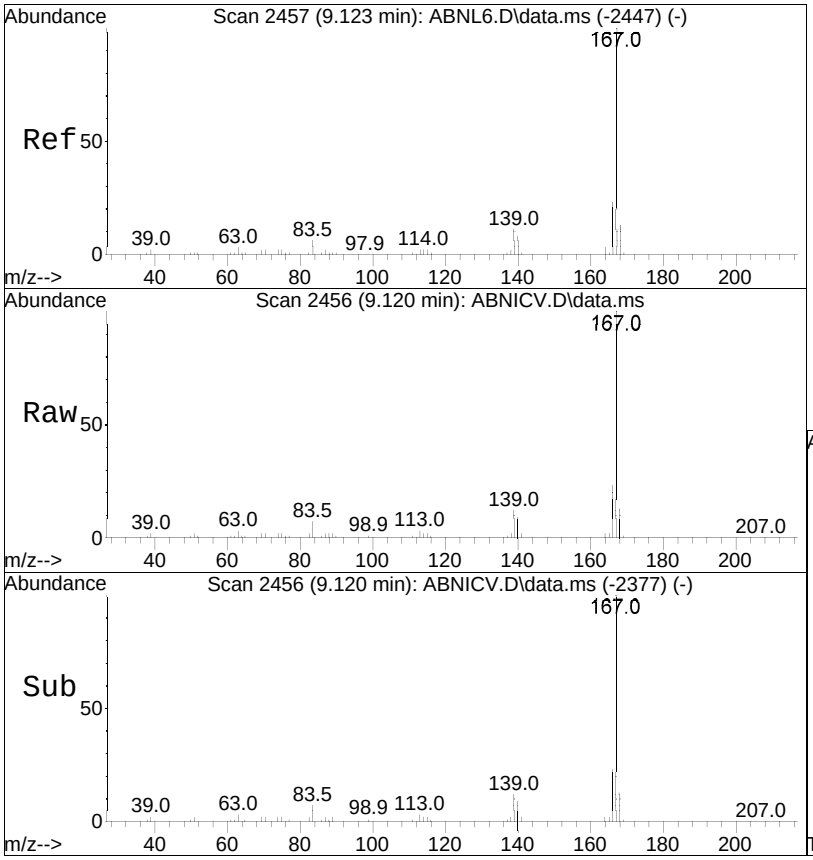


#90
Anthracene
Concen: 4.71 ug/ml
RT: 8.953 min Scan# 2402
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 18 Jun 2024 7:10 pm

Tgt Ion:178 Resp: 208056

Ion	Ratio	Lower	Upper
178	100		
179	15.1	12.0	18.0
176	19.1	14.6	22.0

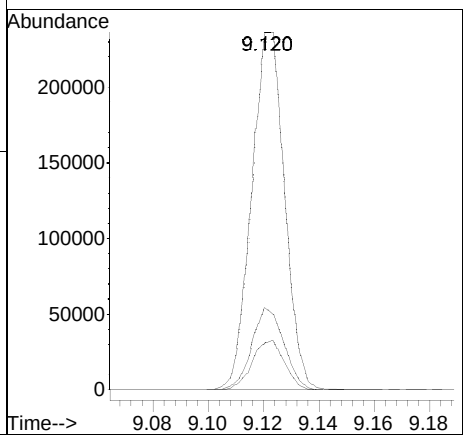


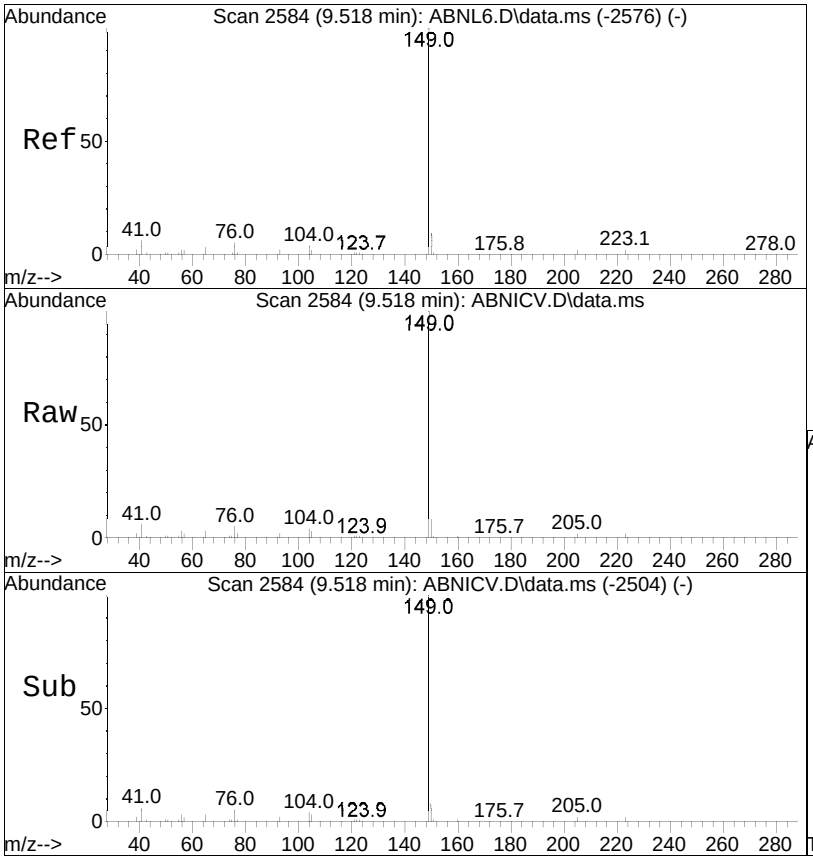


#91
Carbazole
Concen: 4.63 ug/ml
RT: 9.120 min Scan# 2456
Delta R.T. -0.003 min
Lab File: ABNICV.D
Acq: 18 Jun 2024 7:10 pm

Tgt Ion:167 Resp: 193451

Ion	Ratio	Lower	Upper
167	100		
168	13.6	10.6	15.8
166	22.5	17.4	26.0

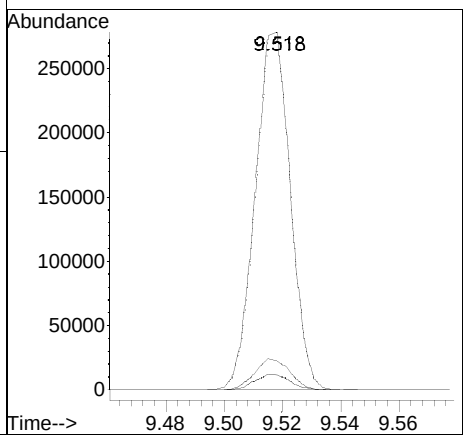


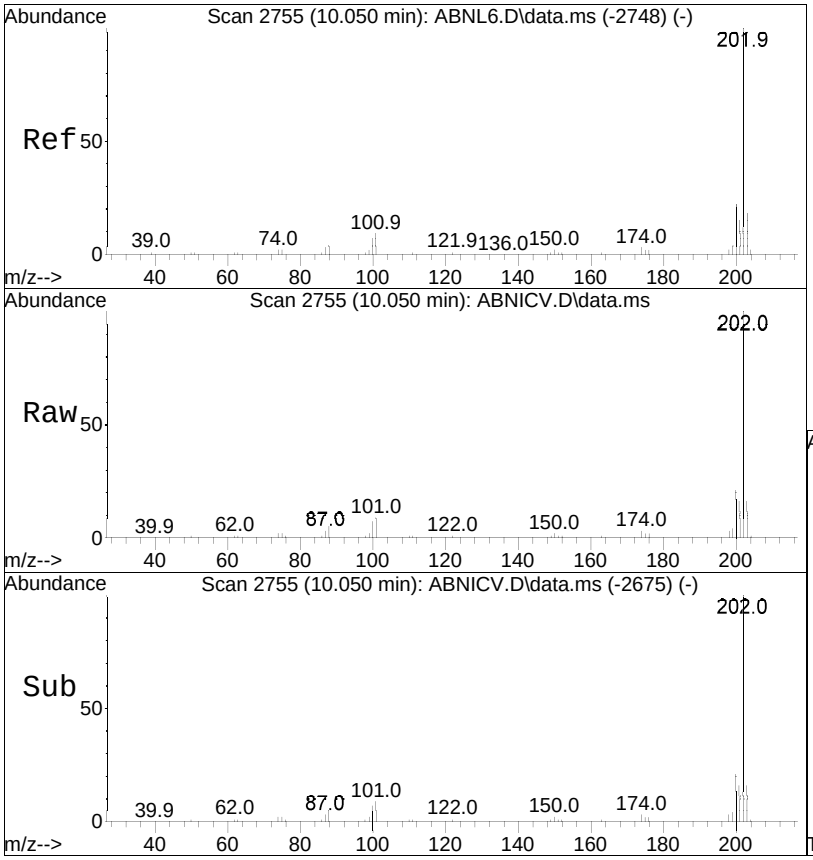


#92
Di-n-butylphthalate
Concen: 4.79 ug/ml
RT: 9.518 min Scan# 2584
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 18 Jun 2024 7:10 pm

Tgt Ion:149 Resp: 229888

Ion	Ratio	Lower	Upper
149	100		
150	8.8	7.0	10.6
104	4.5	4.5	6.7

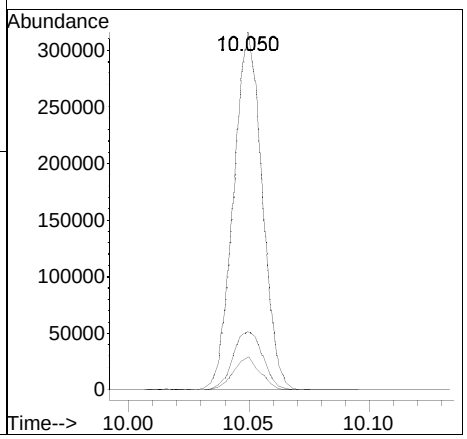


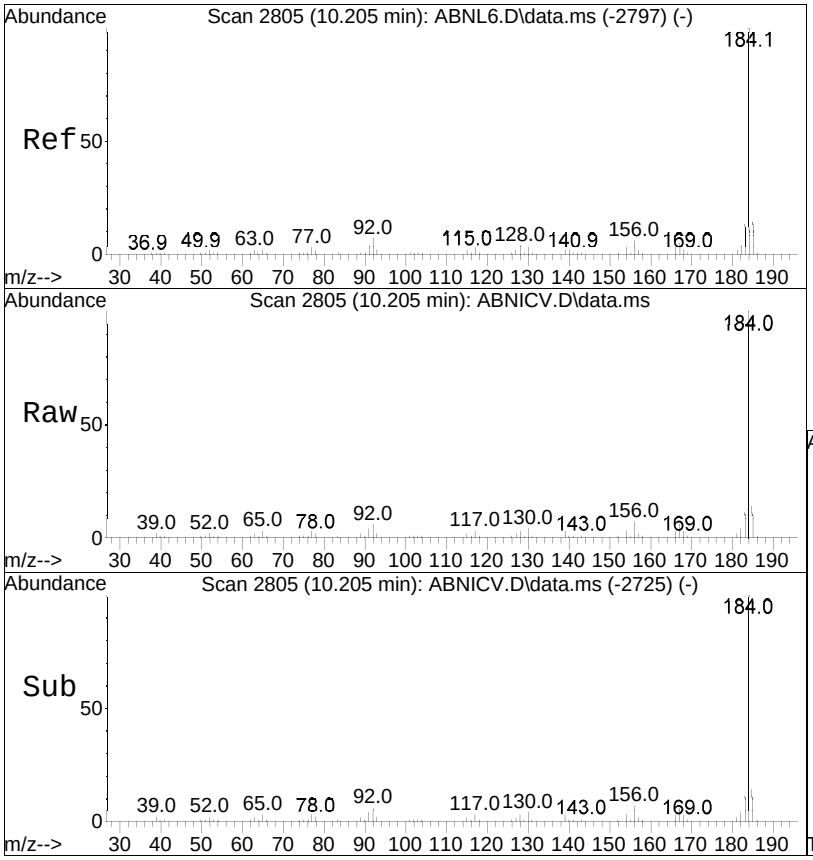


#93
Fluoranthene
Concen: 4.66 ug/ml
RT: 10.050 min Scan# 2755
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 18 Jun 2024 7:10 pm

Tgt Ion:202 Resp: 259812

Ion	Ratio	Lower	Upper
202	100		
101	8.7	13.5	20.3#
203	17.1	13.6	20.4

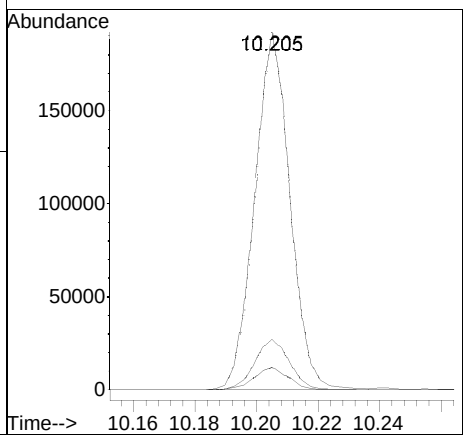


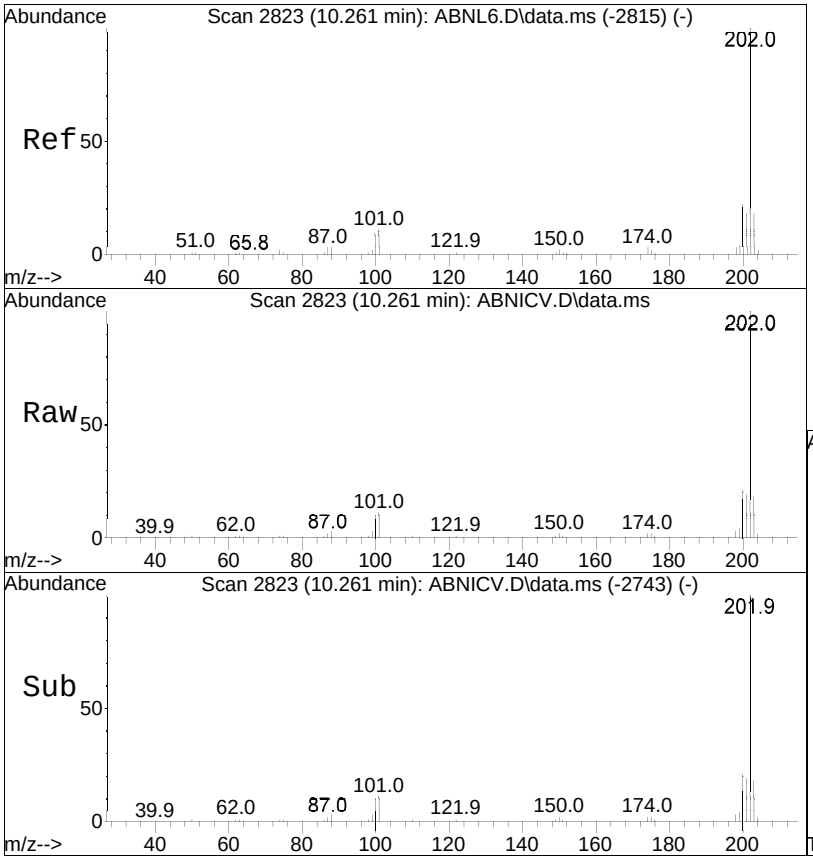


#94
Benzidine
Concen: 4.87 ug/ml
RT: 10.205 min Scan# 2805
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 18 Jun 2024 7:10 pm

Tgt Ion:184 Resp: 151239

Ion	Ratio	Lower	Upper
184	100		
92	6.2	9.1	13.7#
185	14.2	11.1	16.7

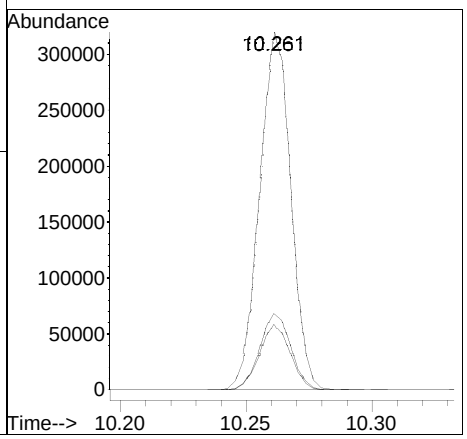


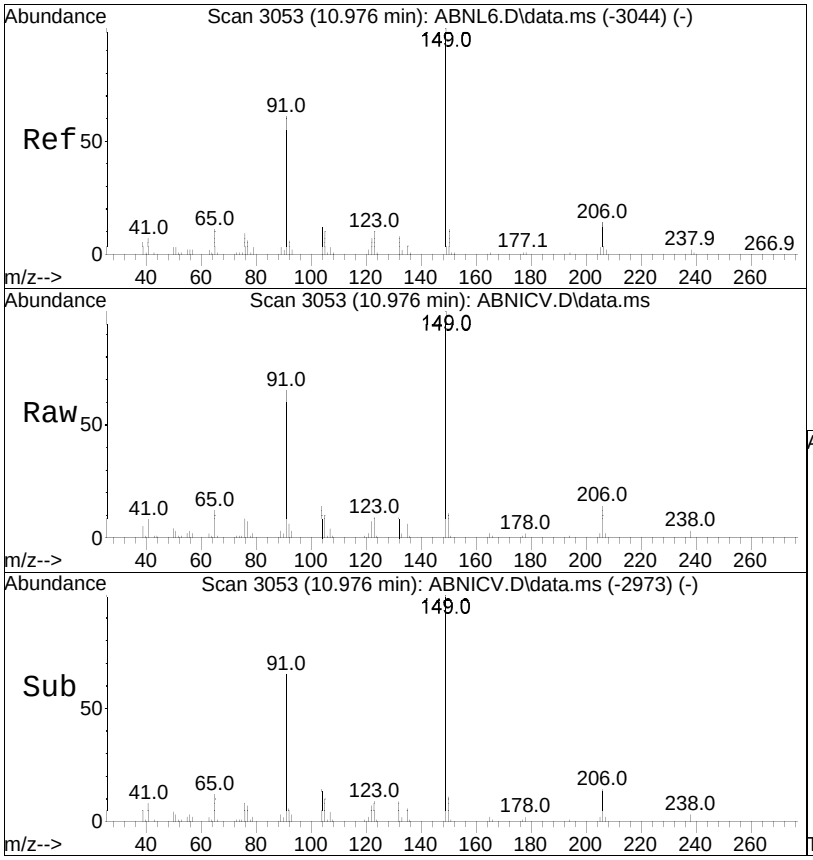


#95
Pyrene
Concen: 4.76 ug/ml
RT: 10.261 min Scan# 2823
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 18 Jun 2024 7:10 pm

Tgt Ion:202 Resp: 272963

Ion	Ratio	Lower	Upper
202	100		
200	21.4	16.7	25.1
203	18.2	14.2	21.4

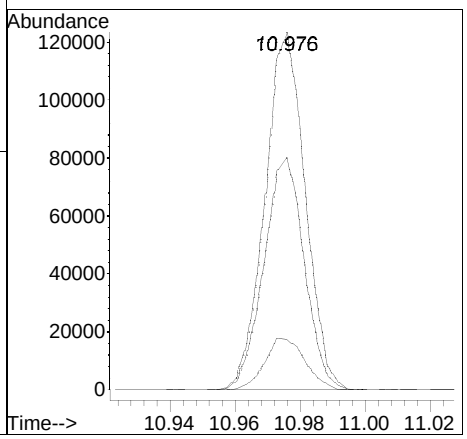


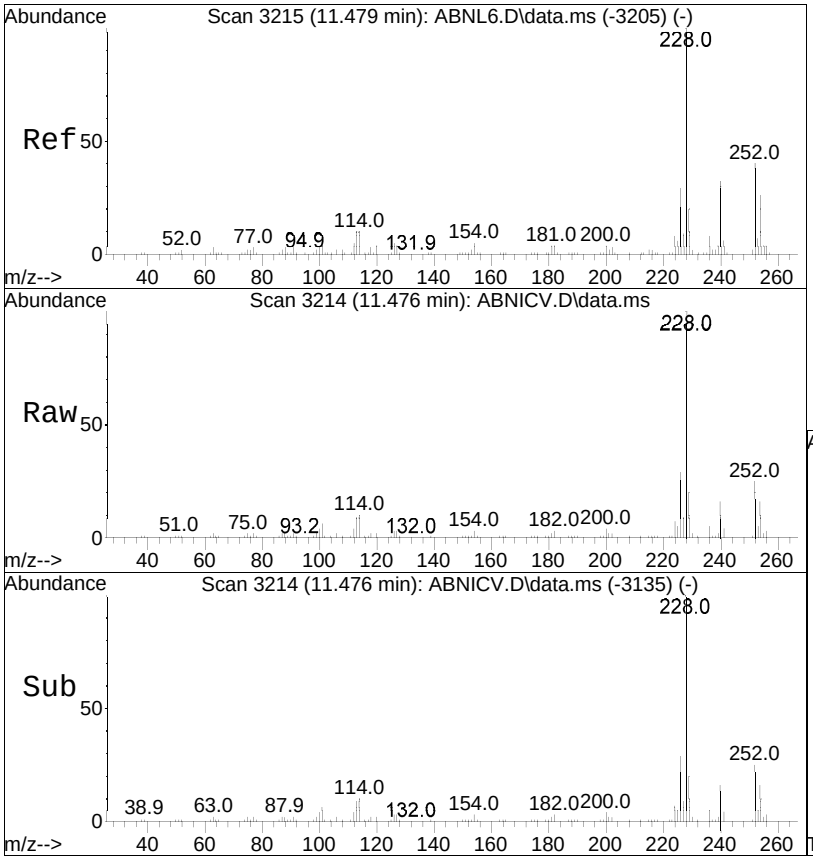


#97
Butyl benzyl phthalate
Concen: 4.86 ug/ml
RT: 10.976 min Scan# 3053
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 18 Jun 2024 7:10 pm

Tgt Ion:149 Resp: 104913

Ion	Ratio	Lower	Upper
149	100		
91	65.4	63.3	94.9
206	14.6	13.9	20.9

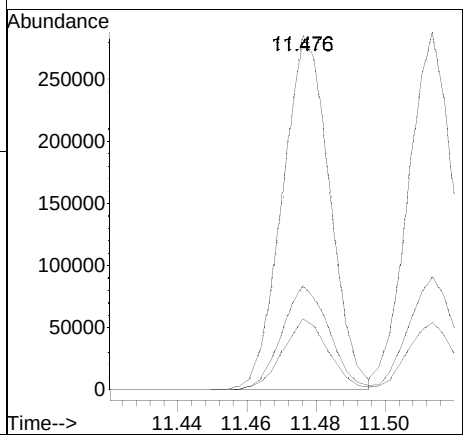


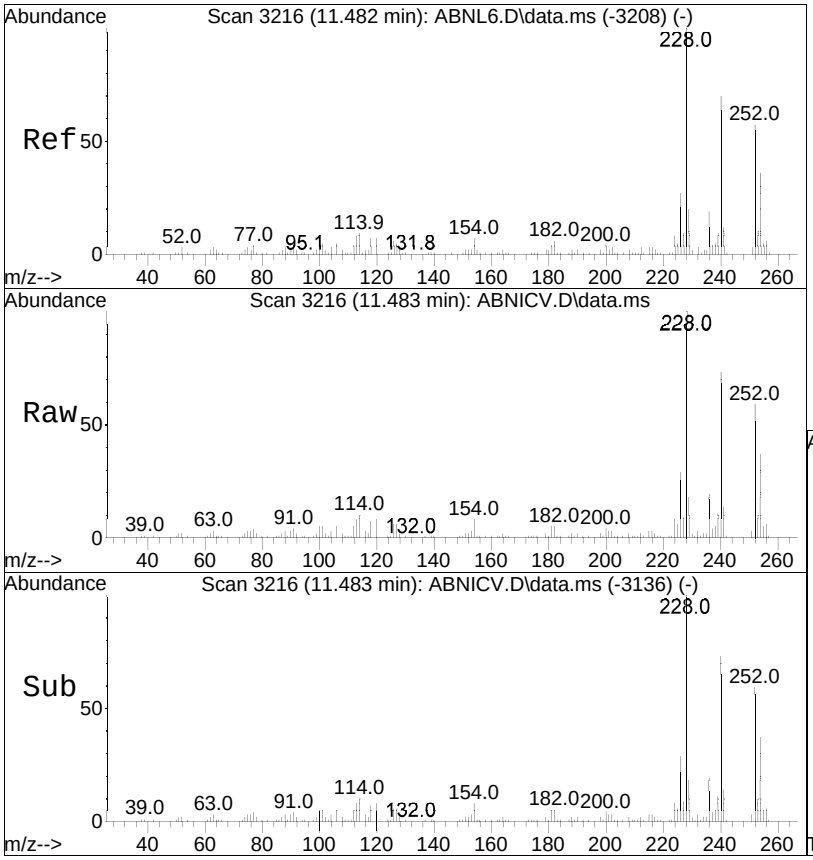


#105
Benzo(a)anthracene
Concen: 4.62 ug/ml
RT: 11.476 min Scan# 3214
Delta R.T. -0.003 min
Lab File: ABNICV.D
Acq: 18 Jun 2024 7:10 pm

Tgt Ion:228 Resp: 270869

Ion	Ratio	Lower	Upper
228	100		
226	29.4	22.2	33.4
229	19.3	15.6	23.4

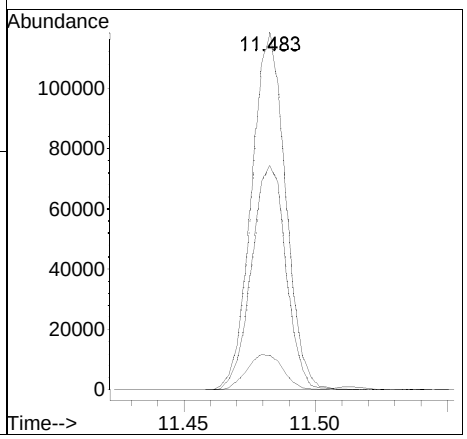


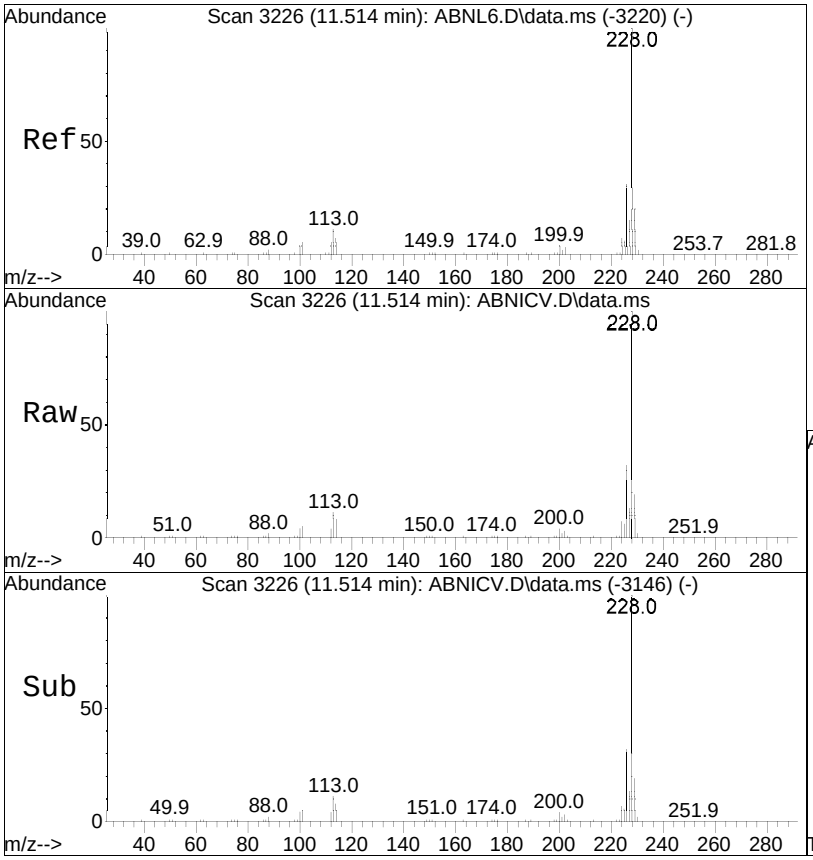


#106
3,3'-Dichlorobenzidine
Concen: 4.87 ug/ml
RT: 11.483 min Scan# 3216
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 18 Jun 2024 7:10 pm

Tgt Ion:252 Resp: 106055

Ion	Ratio	Lower	Upper
252	100		
126	10.8	14.5	21.7#
254	63.7	51.2	76.8

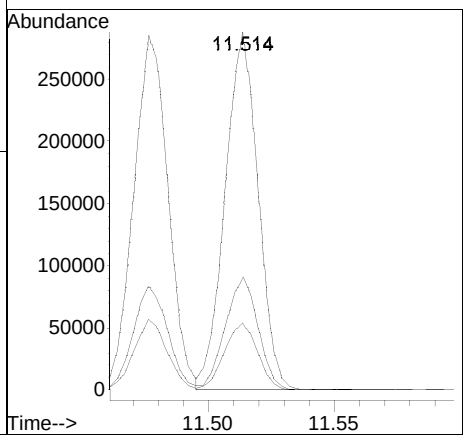


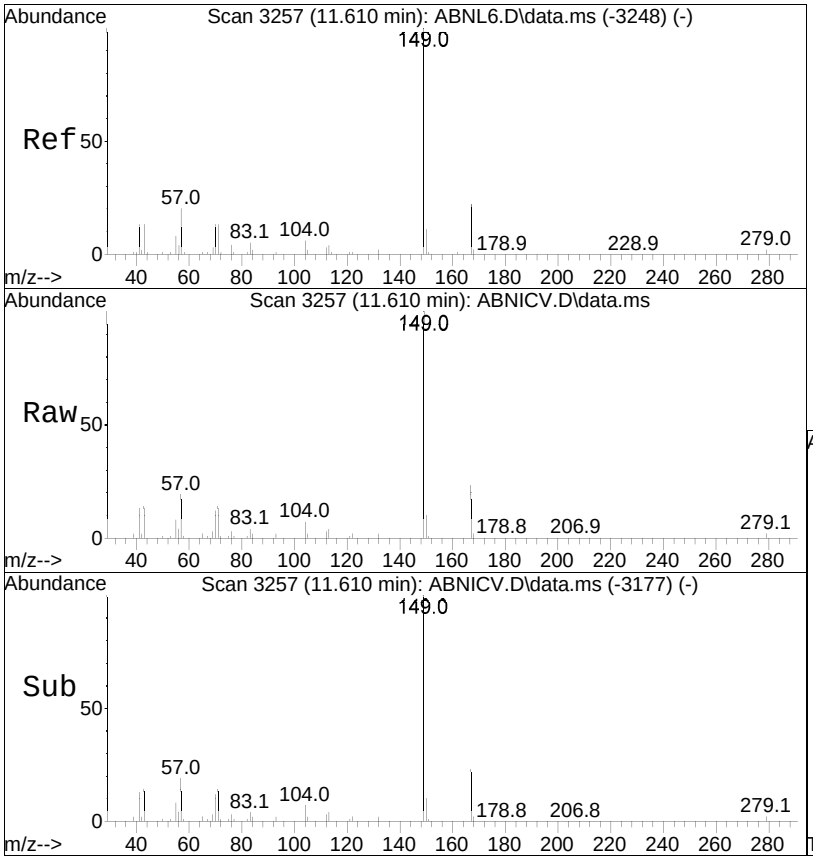


#107
Chrysene
Concen: 4.70 ug/ml
RT: 11.514 min Scan# 3226
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 18 Jun 2024 7:10 pm

Tgt Ion:228 Resp: 261953

Ion	Ratio	Lower	Upper
228	100		
226	31.4	24.0	36.0
229	18.9	15.8	23.8

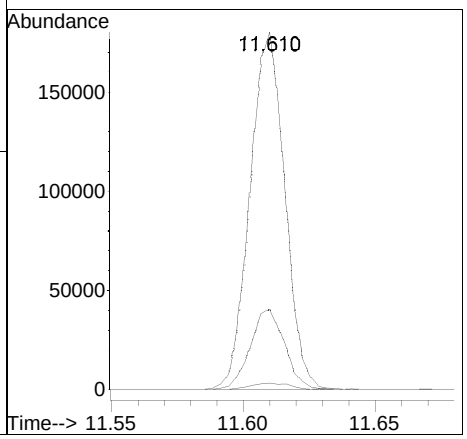


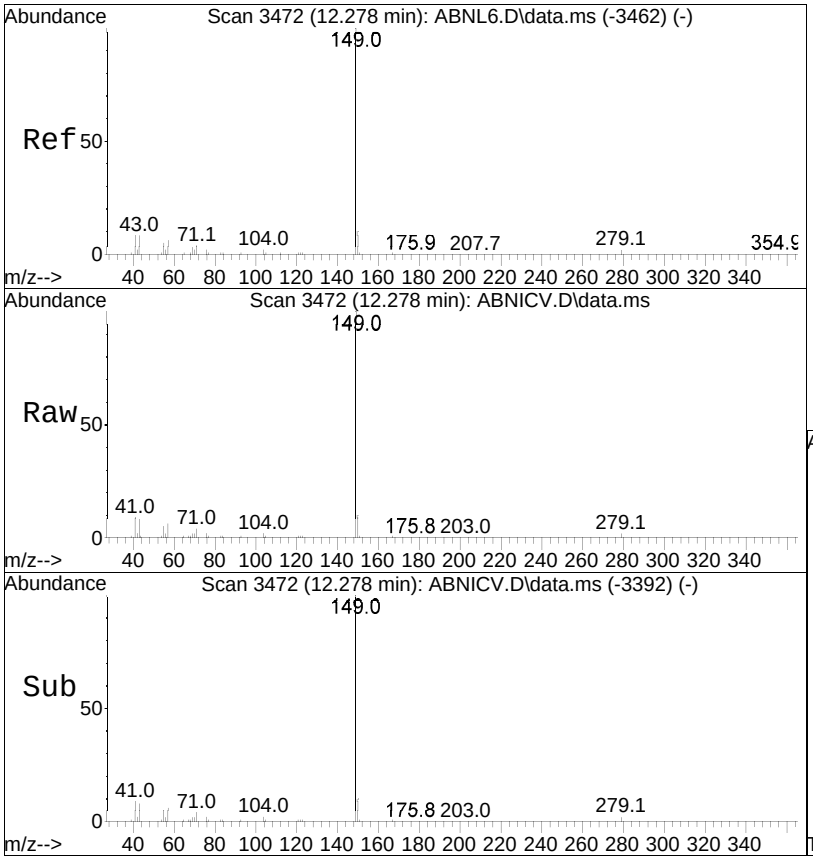


#108
Bis(2-ethylhexyl)phthalate
Concen: 4.95 ug/ml
RT: 11.610 min Scan# 3257
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 18 Jun 2024 7:10 pm

Tgt Ion:149 Resp: 163373

Ion	Ratio	Lower	Upper
149	100		
167	22.2	22.1	33.1
279	1.9	3.0	4.4#

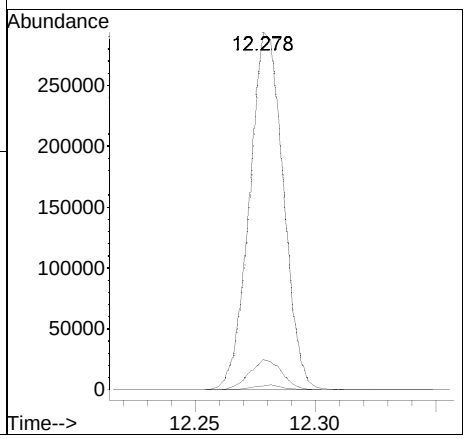


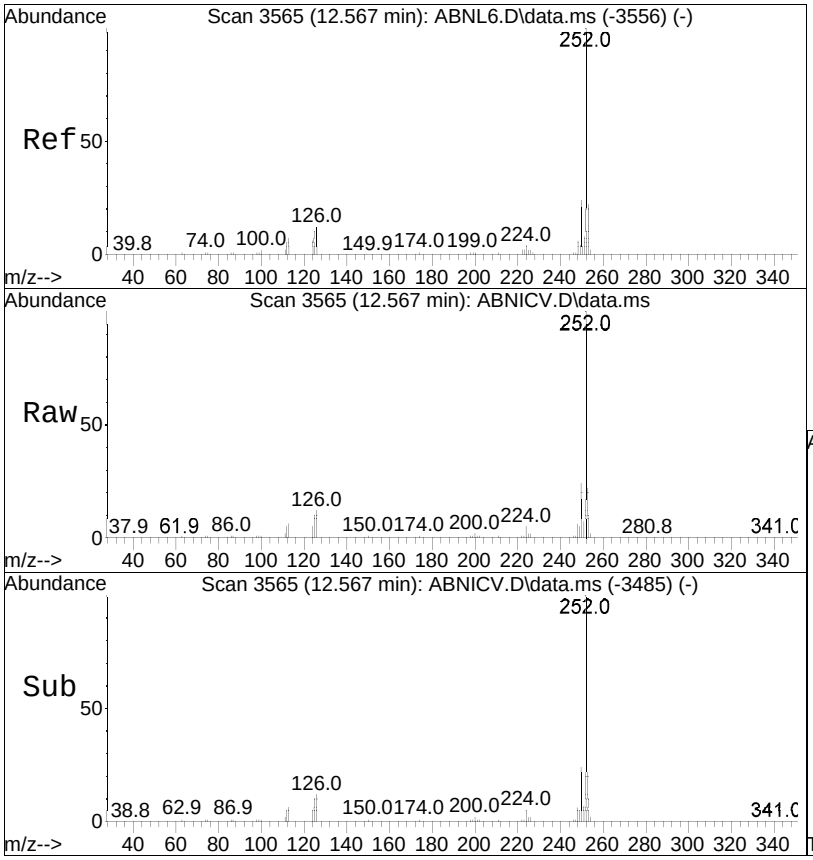


#109
Di-n-octylphthalate
Concen: 5.15 ug/ml
RT: 12.278 min Scan# 3472
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 18 Jun 2024 7:10 pm

Tgt Ion:149 Resp: 283548

Ion	Ratio	Lower	Upper
149	100		
43	8.3	18.8	28.2#
167	1.3	1.3	1.9#

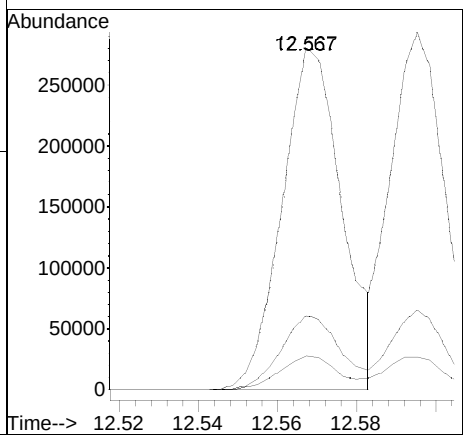


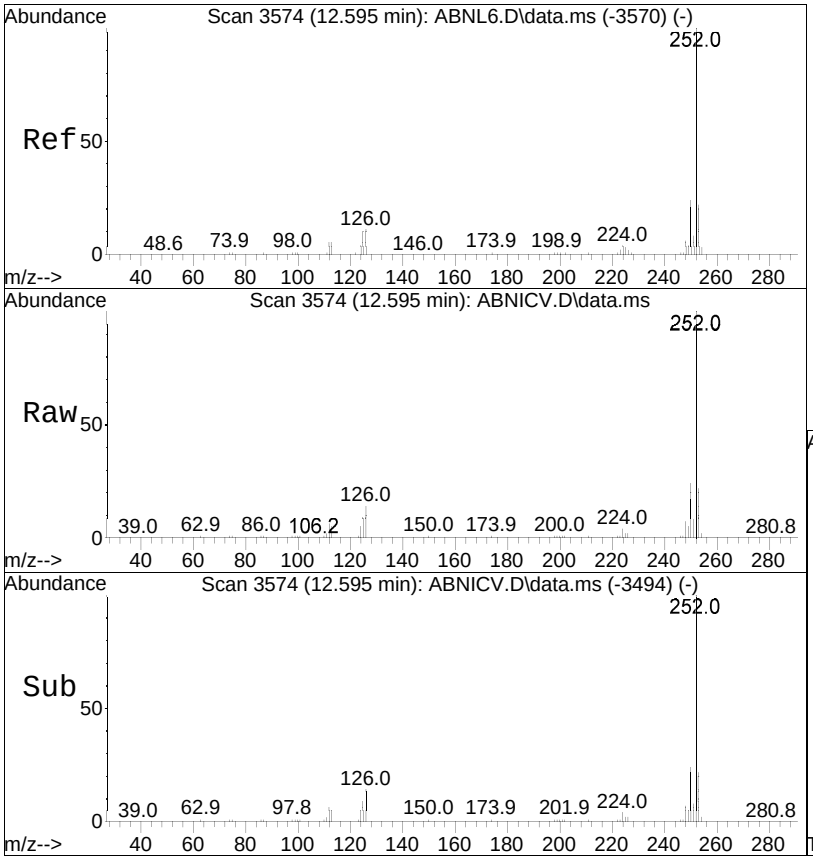


#110
Benzo(b)fluoranthene
Concen: 4.73 ug/ml
RT: 12.567 min Scan# 3565
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 18 Jun 2024 7:10 pm

Tgt Ion:252 Resp: 296436

Ion	Ratio	Lower	Upper
252	100		
125	9.4	13.3	19.9#
253	21.7	17.1	25.7

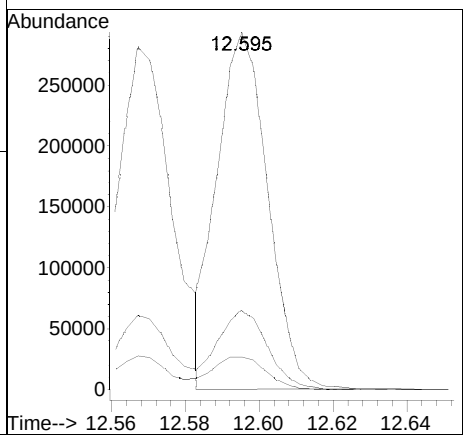


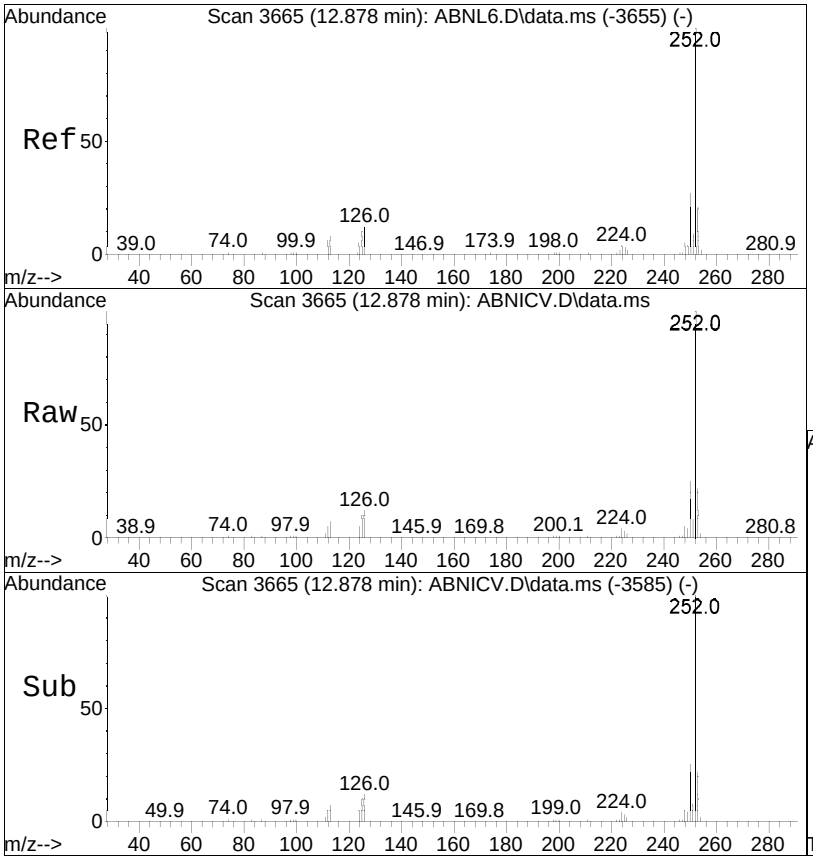


#111
Benzo(k)fluoranthene
Concen: 4.67 ug/ml
RT: 12.595 min Scan# 3574
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 18 Jun 2024 7:10 pm

Tgt Ion:252 Resp: 278467

Ion	Ratio	Lower	Upper
252	100		
125	10.2	13.0	19.6#
253	21.9	16.8	25.2

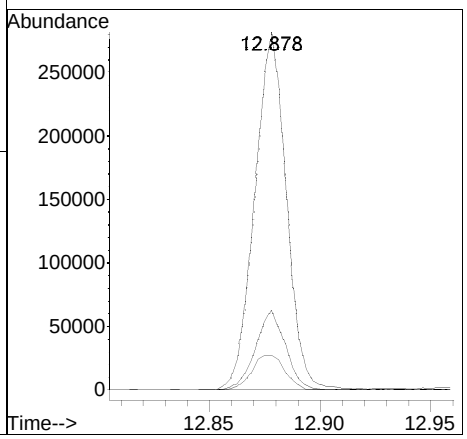


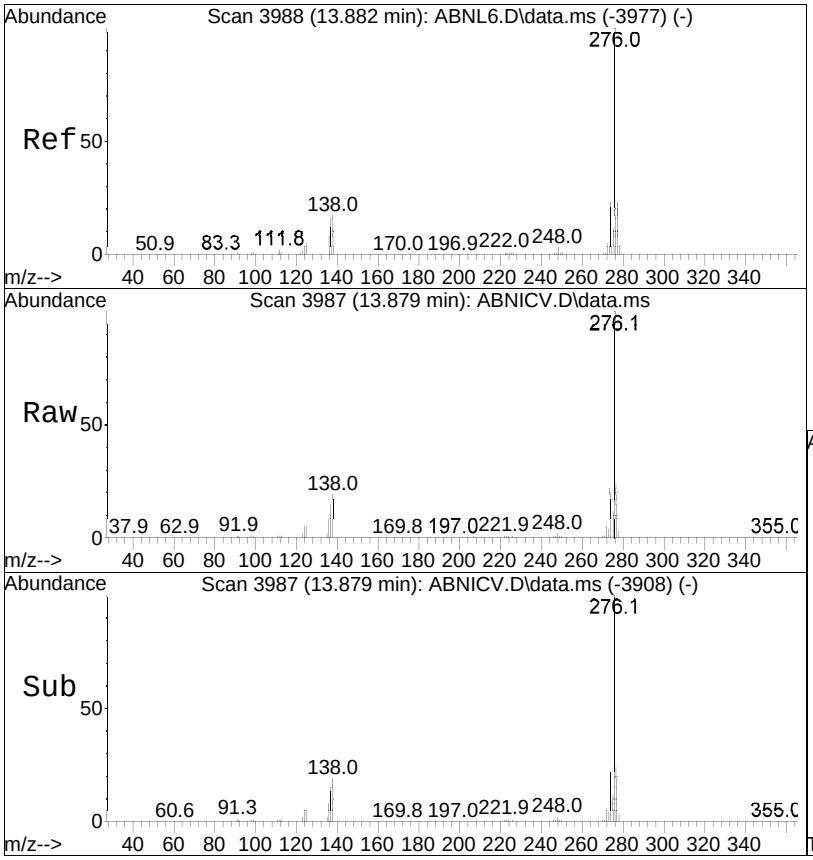


#112
Benzo(a)pyrene
Concen: 5.00 ug/ml
RT: 12.878 min Scan# 3665
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 18 Jun 2024 7:10 pm

Tgt Ion:252 Resp: 277472

Ion	Ratio	Lower	Upper
252	100		
125	10.3	14.2	21.2#
253	21.3	16.9	25.3

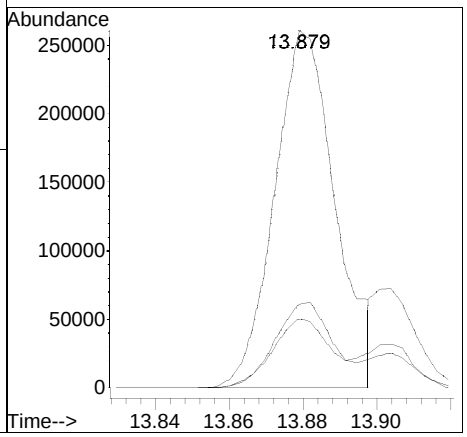


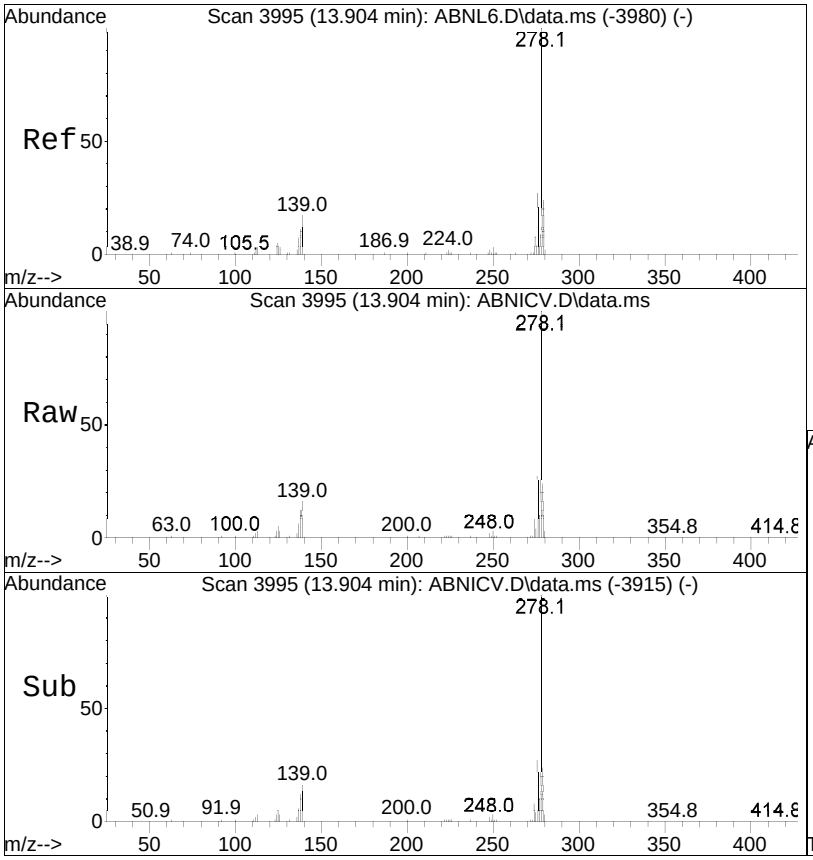


#114
Indeno(1,2,3-cd)pyrene
Concen: 4.68 ug/mL
RT: 13.879 min Scan# 3987
Delta R.T. -0.003 min
Lab File: ABNICV.D
Acq: 18 Jun 2024 7:10 pm

Tgt Ion:276 Resp: 297830

Ion	Ratio	Lower	Upper
276	100		
138	18.3	25.1	37.7#
277	23.1	18.6	28.0

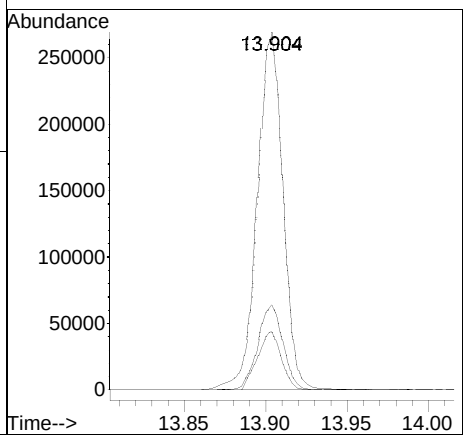


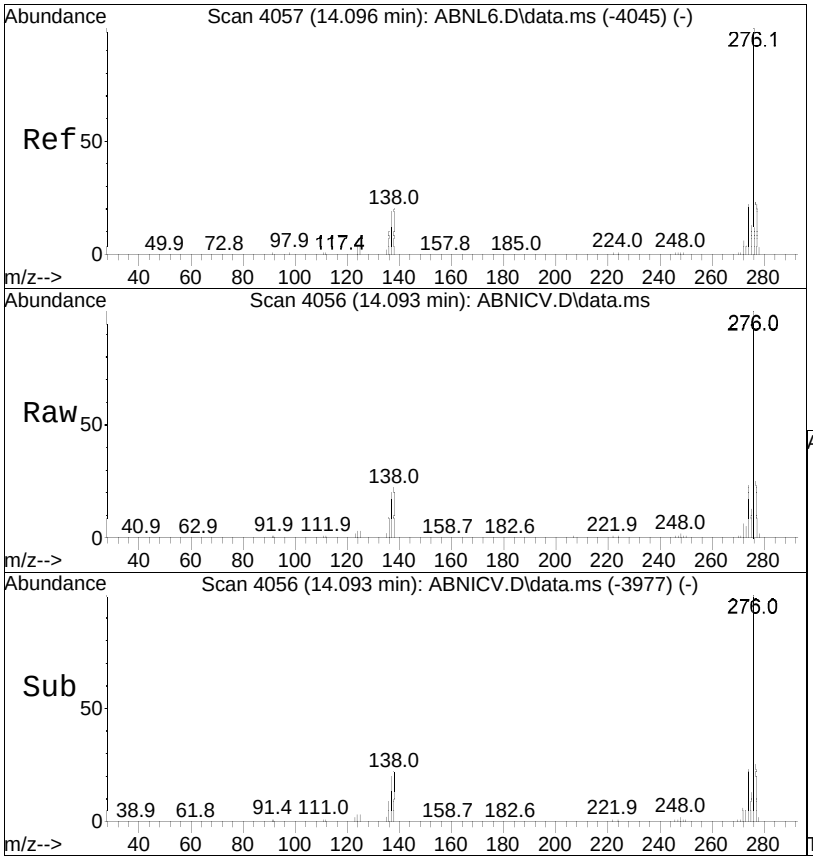


#115
Dibenzo(a,h)anthracene
Concen: 4.95 ug/ml
RT: 13.904 min Scan# 3995
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 18 Jun 2024 7:10 pm

Tgt Ion:278 Resp: 292850

Ion	Ratio	Lower	Upper
278	100		
139	15.4	20.8	31.2#
279	23.6	18.3	27.5

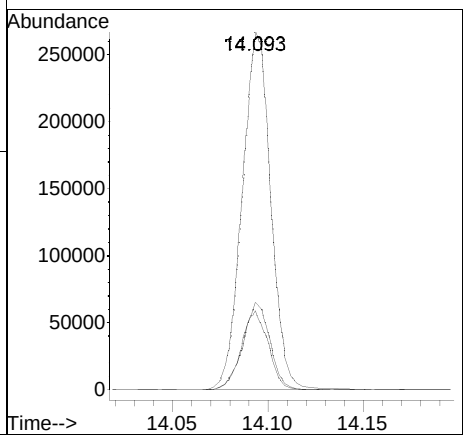




#116
Benzo(ghi)perylene
Concen: 4.74 ug/ml
RT: 14.093 min Scan# 4056
Delta R.T. -0.003 min
Lab File: ABNICV.D
Acq: 18 Jun 2024 7:10 pm

Tgt Ion:276 Resp: 275749

Ion	Ratio	Lower	Upper
276	100		
138	20.8	29.2	43.8#
277	23.5	18.8	28.2



Manual Integration Report

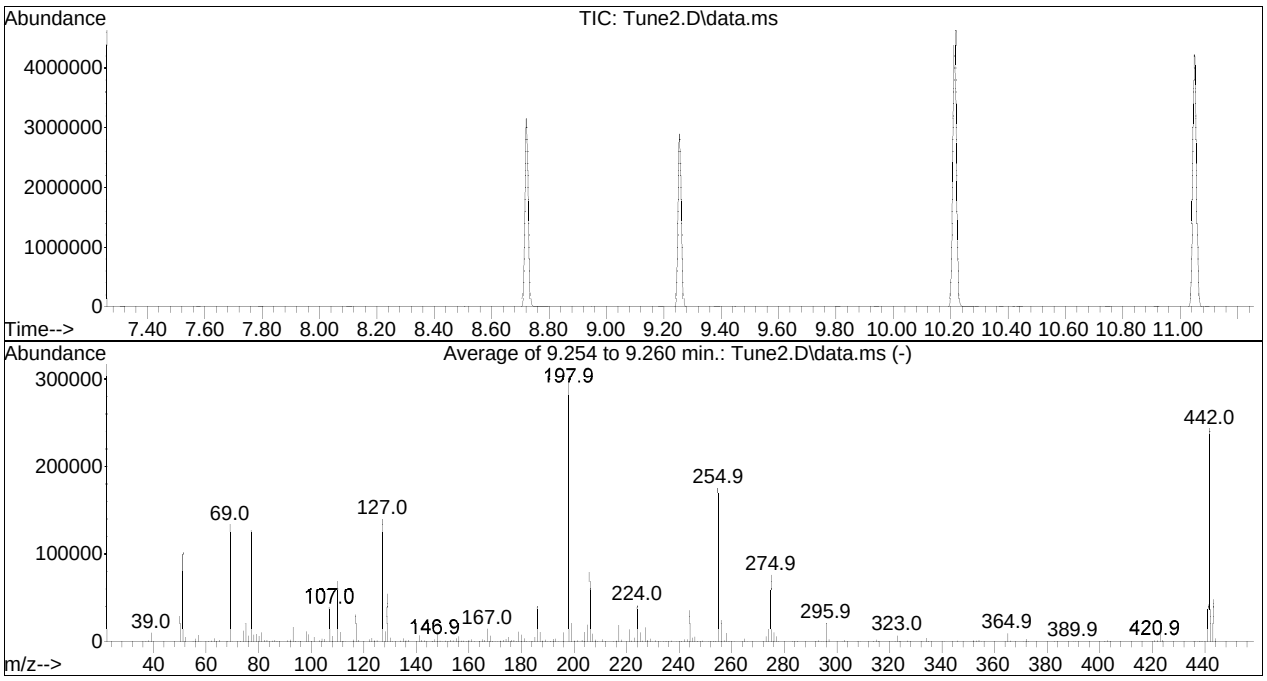
Data Path	: I:\8270\Dakota\240618ical\	QMethod	: FS240618RVT_14D_Dakota.m
Data File	: ABNICV.D	Operator	: Dakota:cmm
Date Inj'd	: 6/18/2024 7:10 pm	Instrument	: Dakota
Sample	: CQICV1,32,,ABNICV Lot# 108	Quant Date	: 6/19/2024 9:02 pm

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

Data Path : I:\8270\Dakota\240618ical\
Data File : Tune2.D
Acq On : 18 Jun 2024 8:19 pm
Operator : Dakota:cmm
Sample : Tune Lot#10812
Misc : WG1938219,,
ALS Vial : 100 Sample Multiplier: 1

Integration File: rteint.p

Method : I:\8270\Dakota\240618ical\FS240618RVT_14D_Dakota.m
Title : Semivolatiles by GC/MS by modified 8270
Last Update : Wed Jun 19 22:04:59 2024



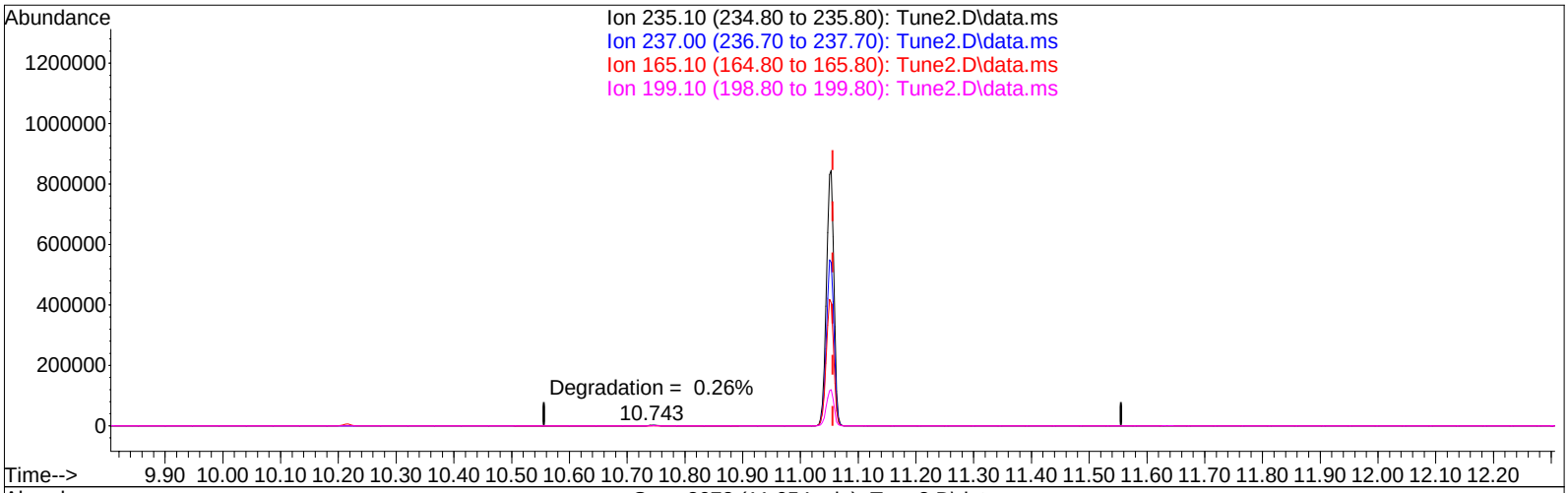
Spectrum Information: Average of 9.254 to 9.260 min.

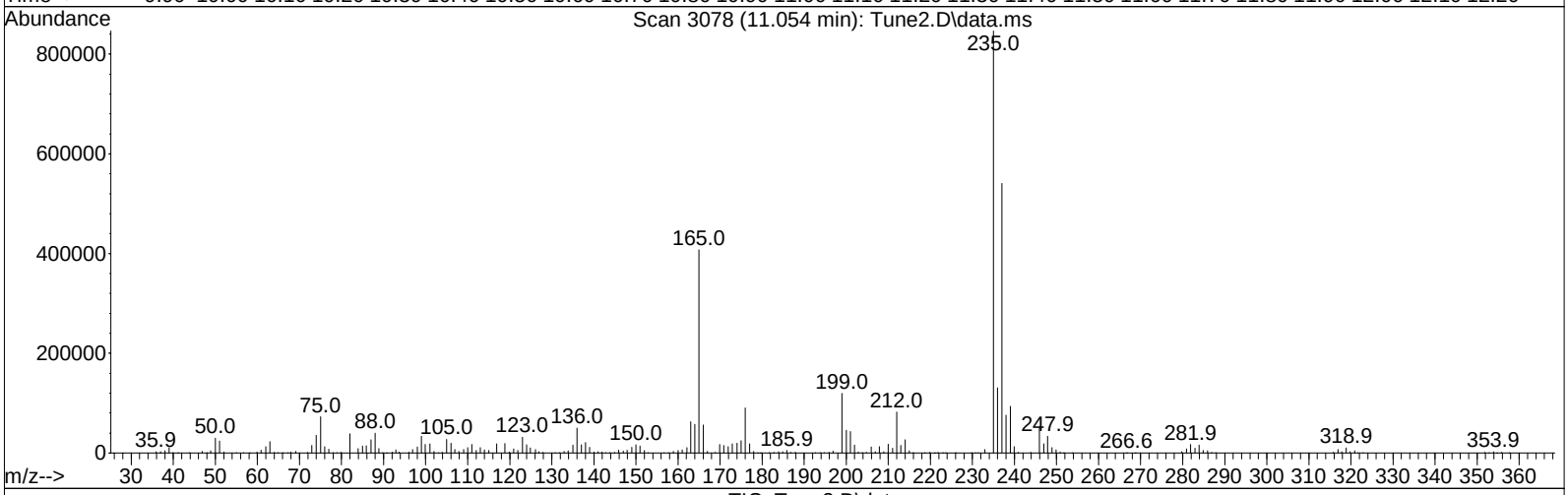
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	33.8	101925	PASS
68	69	0.00	2	0.5	700	PASS
69	69	100	100	100.0	133413	PASS
70	69	0.00	2	0.5	649	PASS
127	198	10	80	46.3	139725	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	301675	PASS
199	198	5	9	6.6	19981	PASS
275	198	10	60	25.1	75808	PASS
365	198	1	100	3.0	9122	PASS
441	442	0.01	24	17.4	42323	PASS
442	198	50	100	80.6	243264	PASS
443	442	15	24	19.8	48240	PASS

Quantitation Report (Qedit)

Data Path : I:\8270\Dakota\240618ical\
Data File : Tune2.D
Acq On : 18 Jun 2024 8:19 pm
Operator : Dakota:cmm
Sample : Tune Lot#10812
Misc : WG1938219,,
ALS Vial : 100 Sample Multiplier: 1

Quant Time: Jun 19 21:57:10 2024
Quant Method : I:\8270\Dakota\240618ical\DftppDakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Jun 13 07:04:58 2024
Response via : Initial Calibration





TIC: Tune2.D\data.ms

(6) DDT (T)

11.054min (-0.002) 125.77

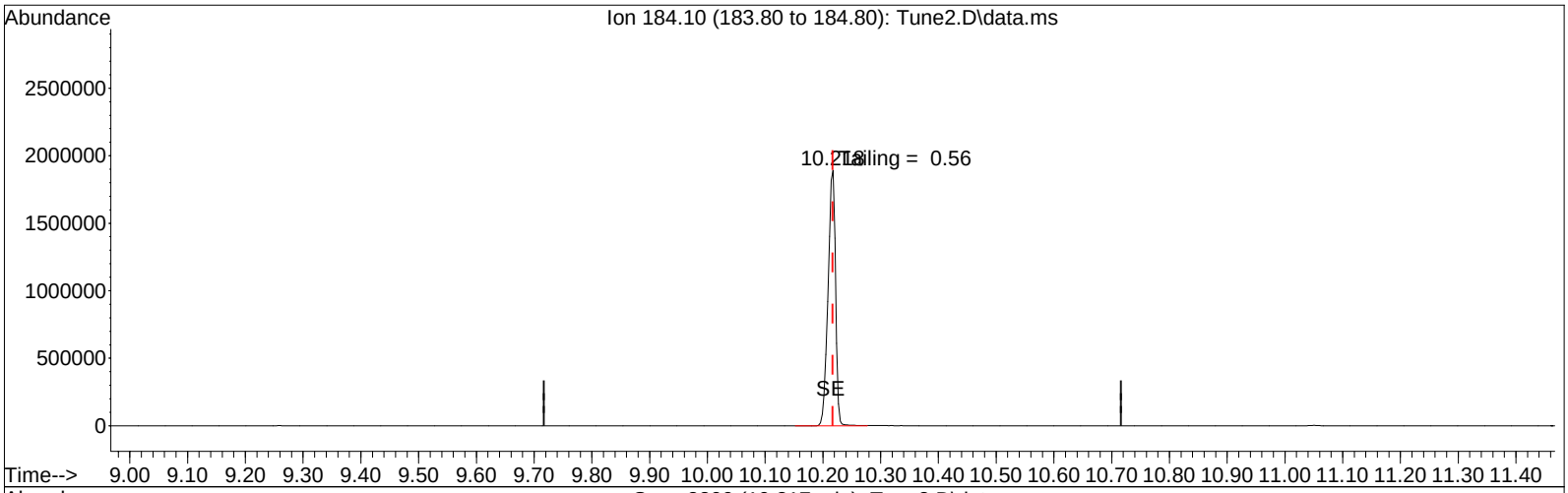
response 766643

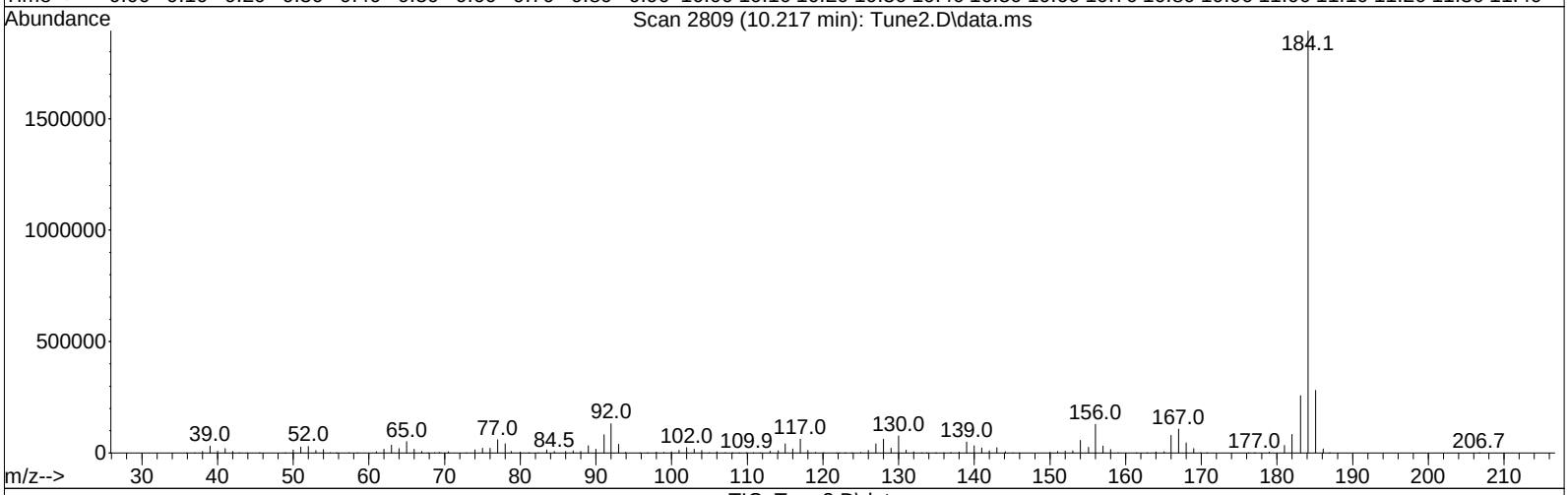
Ion	Exp%	Act%
235.10	100.00	100.00
237.00	66.20	65.14
165.10	47.40	49.20
199.10	13.90	14.19

Quantitation Report (Qedit)

Data Path : I:\8270\Dakota\240618ical\
Data File : Tune2.D
Acq On : 18 Jun 2024 8:19 pm
Operator : Dakota:cmm
Sample : Tune Lot#10812
Misc : WG1938219,,
ALS Vial : 100 Sample Multiplier: 1

Quant Time: Jun 19 21:57:10 2024
Quant Method : I:\8270\Dakota\240618ical\DftppDakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Jun 13 07:04:58 2024
Response via : Initial Calibration





TIC: Tune2.D\data.ms

(3) Benzidine (T)

10.217min (+ 0.000) 167.80

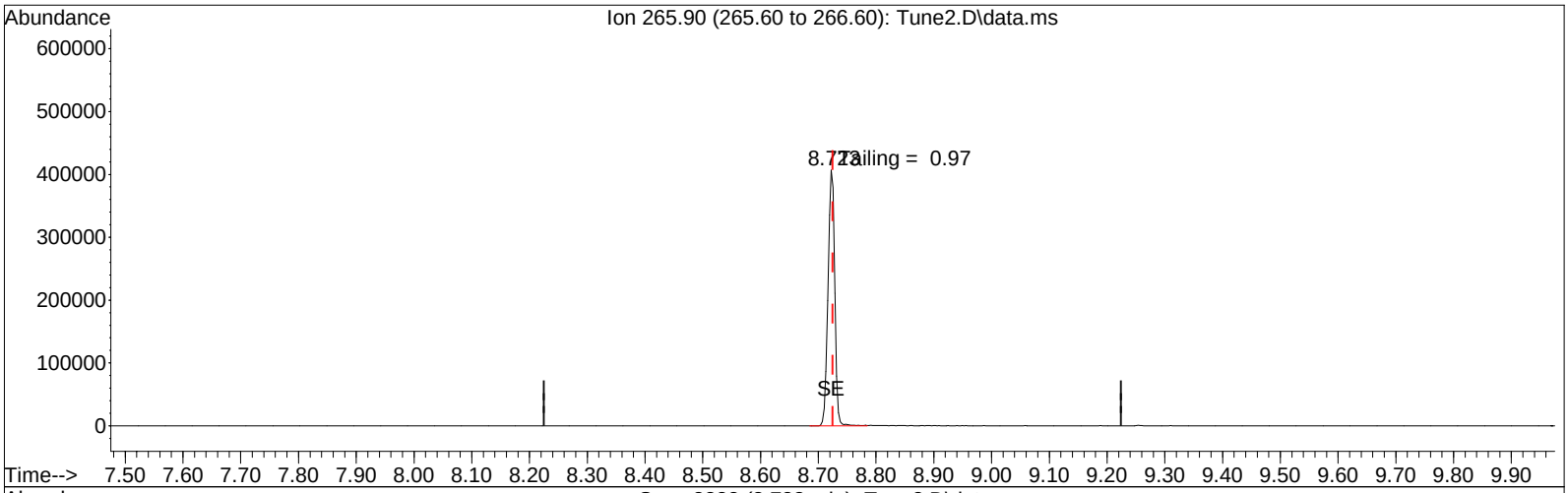
response 1708226

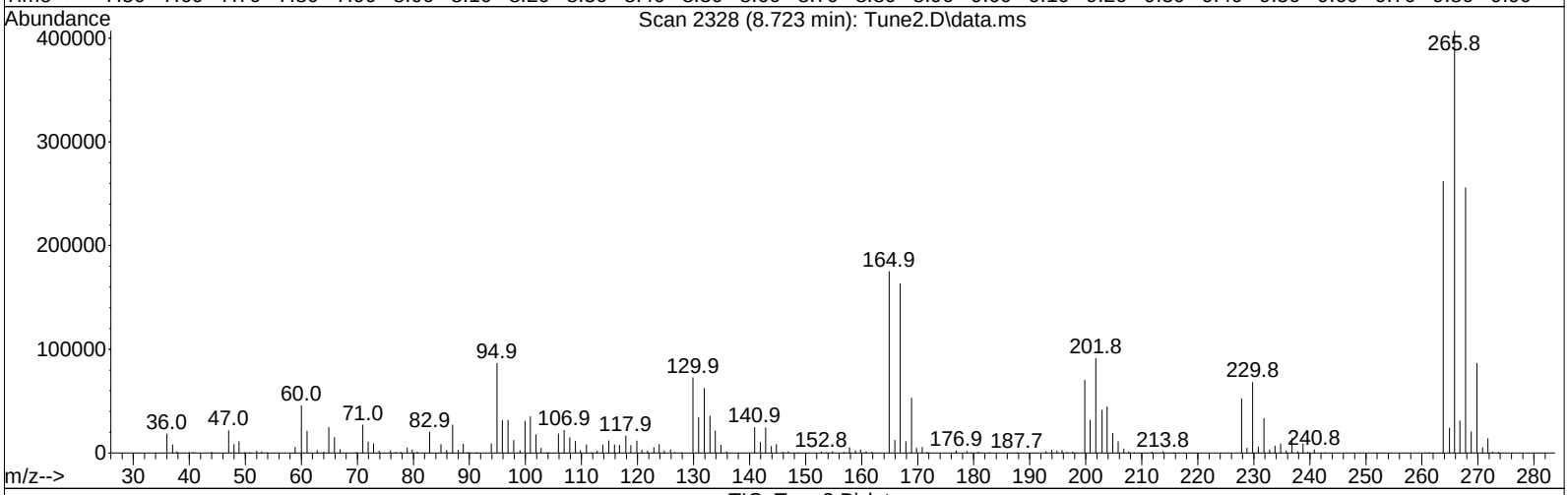
Ion	Exp%	Act%
184.10	100.00	100.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\8270\Dakota\240618ical\
Data File : Tune2.D
Acq On : 18 Jun 2024 8:19 pm
Operator : Dakota:cmm
Sample : Tune Lot#10812
Misc : WG1938219,,
ALS Vial : 100 Sample Multiplier: 1

Quant Time: Jun 19 21:57:10 2024
Quant Method : I:\8270\Dakota\240618ical\DftppDakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Jun 13 07:04:58 2024
Response via : Initial Calibration





TIC: Tune2.D\data.ms

(1) Pentachlorophenol (T)

8.723min (-0.002) 157.56

response 330941

Ion	Exp%	Act%
265.90	100.00	100.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Evaluate Continuing Calibration Report

Data Path : I:\8270\Dakota\240618ical\
Data File : AP9ICV.D
Acq On : 18 Jun 2024 8:41 pm
Operator : Dakota:cmm
Sample : CQICV2,32,,AP9ICV Lot# 10806
Misc : WG1938219,,
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Jun 19 22:05:12 2024
Quant Method : I:\8270\Dakota\240618ical\FS240618RVT_14D_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Jun 19 22:04:59 2024
Response via : Initial Calibration

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

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
27	I	IS2_1,4-Dichlorobenzene-d4	1.000	1.000	0.0	92	0.00
28	T	Benzaldehyde	1.036	0.973	6.1	89	0.00
29	T	Acetophenone	1.772	1.639	7.5	88	0.00
30	T	m-Toluidine	1.704	1.626	4.6	87	0.00
31	T	2-Chloroaniline	1.648	1.524	7.5	88	0.00
55	I	IS2_Naphthalene-d8	1.000	1.000	0.0	91	0.00
56	T	a-Terpineol	0.269	0.256	4.8	89	0.00
57	T	3-Chloroaniline	0.150	0.141	6.0	88	0.00
58	T	2,6-Dichlorophenol	0.375	0.353	5.9	86	0.00
59	T	1-chloro-2-nitrobenzene	0.155	0.140	9.7	87	0.00
60	T	Caprolactam	0.134	0.127	5.2	86	0.00
61	T	1,2,4,5-Tetrachlorobenzene	0.499	0.457	8.4	87	0.00
62	T	Biphenyl	1.069	0.989	7.5	87	0.00
83	I	IS2_Acenaphthene-d10	1.000	1.000	0.0	93	0.00
84	T	Dichloran	0.236	0.192	18.6	81	0.00
85	T	Pentachloronitrobenzene	0.220	0.200	9.1	82	0.00
98	I	IS2_Phenanthrene-d10	1.000	1.000	0.0	92	0.00
99	T	Diphenamid	0.521	0.475	8.8	83	0.00

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\240618ical\
Data File : AP9ICV.D
Acq On : 18 Jun 2024 8:41 pm
Operator : Dakota:cmm
Sample : CQICV2,32,,AP9ICV Lot# 10806
Misc : WG1938219,,
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Jun 19 22:05:12 2024
Quant Method : I:\8270\Dakota\240618ical\FS240618RVT_14D_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Jun 19 22:04:59 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\240618ical\AP9L6.D
Sub List : AP9ical - AP9 ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
27) IS2_1,4-Dichlorobenzen...	4.526	152	27954	4.000	ug/ml	0.00
Standard Area 1 = 30304			Recovery = 92.25%			
55) IS2_Naphthalene-d8	5.760	136	100320	4.000	ug/ml	0.00
Standard Area 1 = 110135			Recovery = 91.09%			
83) IS2_Acenaphthene-d10	7.457	164	68717	4.000	ug/ml	0.00
Standard Area 1 = 73667			Recovery = 93.28%			
98) IS2_Phenanthrene-d10	8.881	188	160357	4.000	ug/ml	0.00
Standard Area 1 = 174138			Recovery = 92.09%			
System Monitoring Compounds						
Target Compounds						Qvalue
28) Benzaldehyde	4.091	105	33984	4.694	ug/ml	99
29) Acetophenone	4.927	105	57288	4.627	ug/ml#	76
30) m-Toluidine	5.011	106	56825	4.772	ug/ml	95
31) 2-Chloroaniline	5.369	127	53259	4.626	ug/ml#	92
56) a-Terpineol	5.819	59	32051	4.747	ug/ml#	79
57) 3-Chloroaniline	5.835	65	17735	4.718	ug/ml	95
58) 2,6-Dichlorophenol	5.860	162	44313	4.708	ug/ml#	83
59) 1-chloro-2-nitrobenzene	6.115	111	17559	4.506	ug/ml#	1
60) Caprolactam	6.146	55	15974	4.762	ug/ml#	58
61) 1,2,4,5-Tetrachloroben...	6.627	216	57317	4.575	ug/ml#	96
62) Biphenyl	6.917	154	124053	4.628	ug/ml	98
84) Dichloran	8.582	206	16481	4.071	ug/ml#	61
85) Pentachloronitrobenzene	8.735	237	17148	4.539	ug/ml#	80
99) Diphenamid	9.788	167	95301	4.567	ug/ml#	77

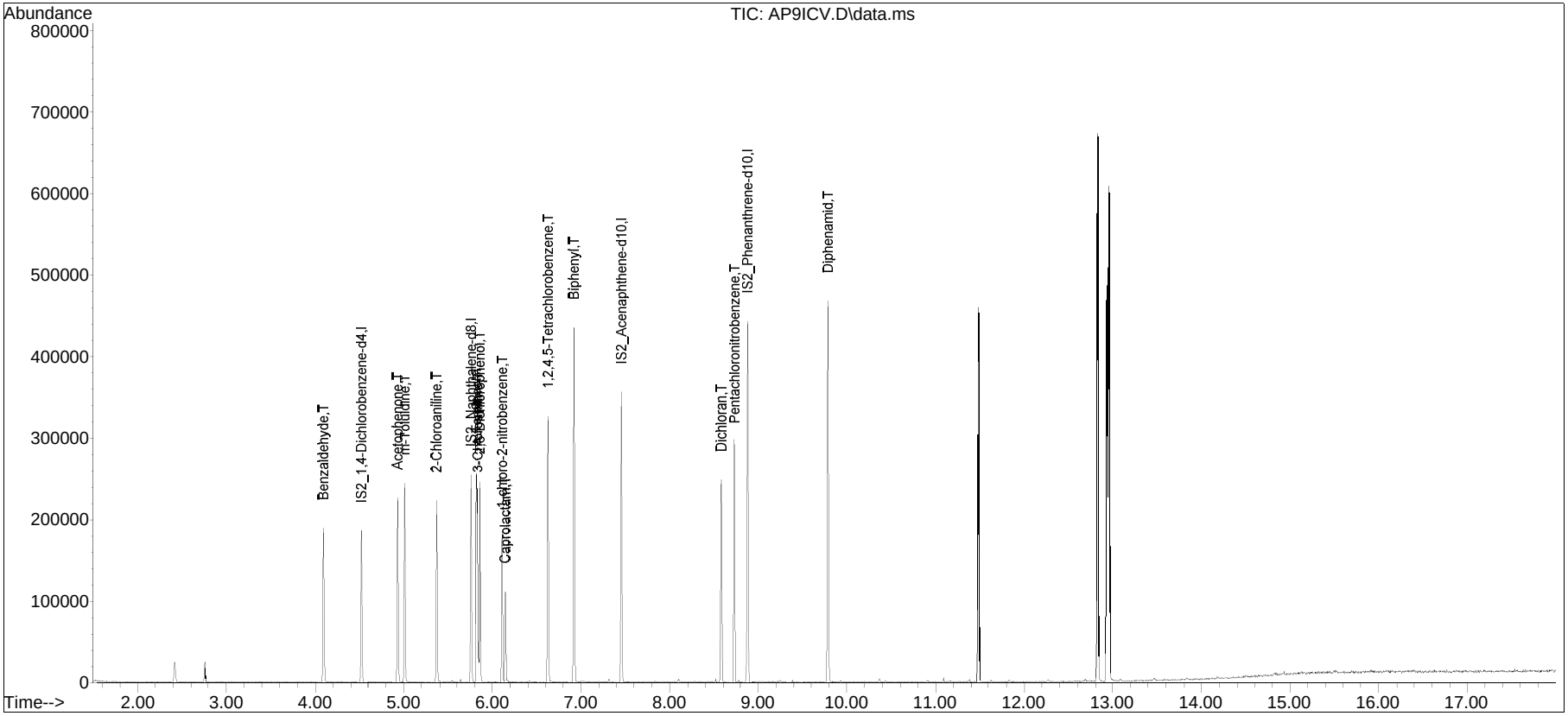
(#) = qualifier out of range (m) = manual integration (+) = signals summed

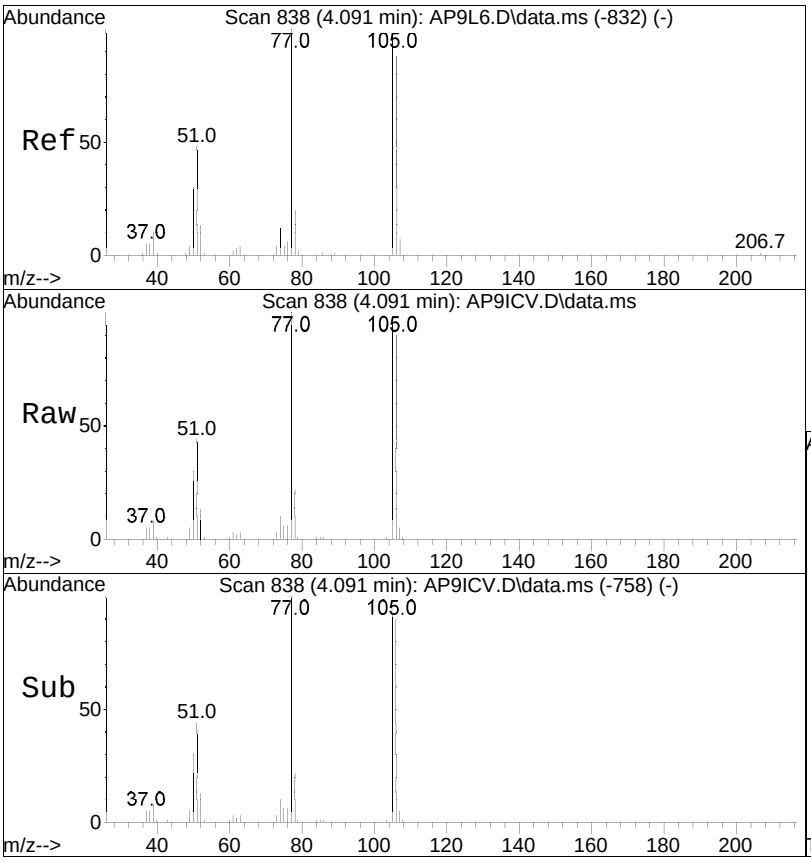
Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\240618ical\
Data File : AP9ICV.D
Acq On : 18 Jun 2024 8:41 pm
Operator : Dakota:cmm
Sample : CQICV2,32,,AP9ICV Lot# 10806
Misc : WG1938219,,
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Jun 19 22:05:12 2024
Quant Method : I:\8270\Dakota\240618ical\FS240618RVT_14D_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Jun 19 22:04:59 2024
Response via : Initial Calibration

Sub List : AP9ical - AP9 ical sublistcal\AP9L6.D•

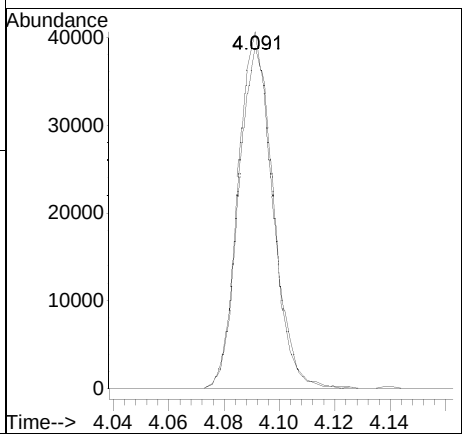


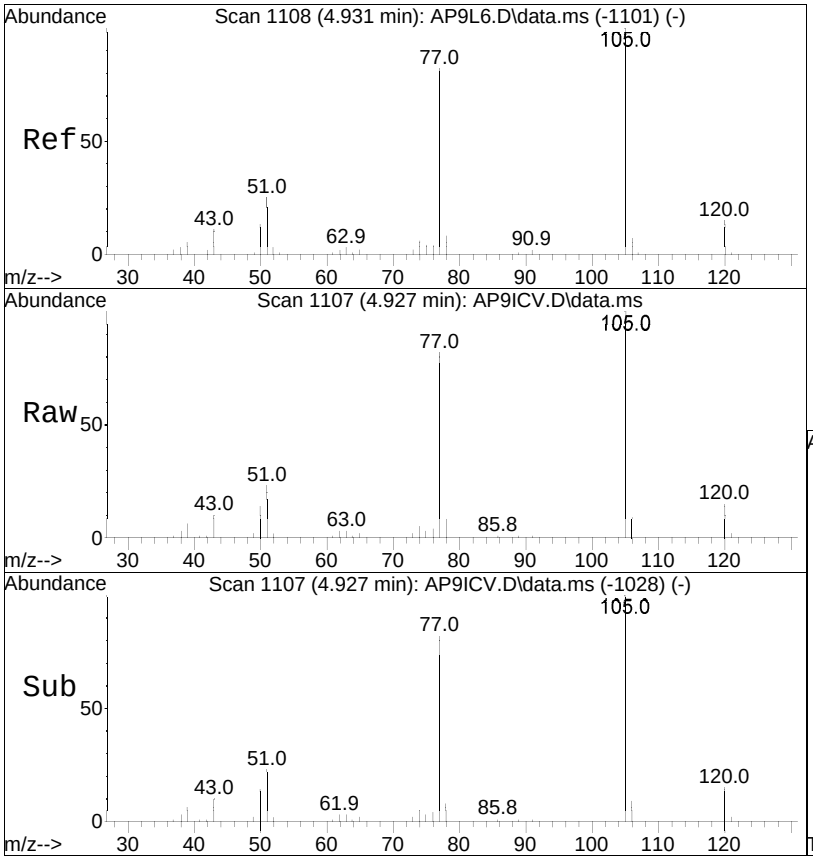


#28
Benzaldehyde
Concen: 4.69 ug/ml
RT: 4.091 min Scan# 838
Delta R.T. -0.000 min
Lab File: AP9ICV.D
Acq: 18 Jun 2024 8:41 pm

Tgt Ion:105 Resp: 33984

Ion	Ratio	Lower	Upper
105	100		
77	103.4	82.2	123.4

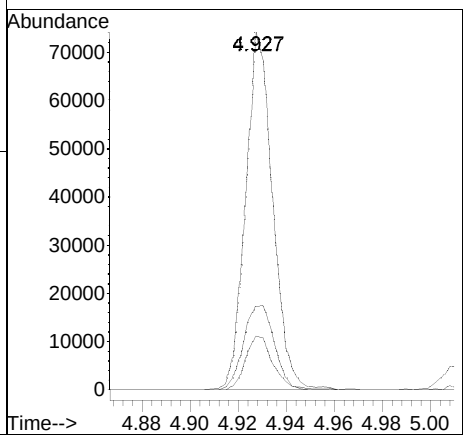


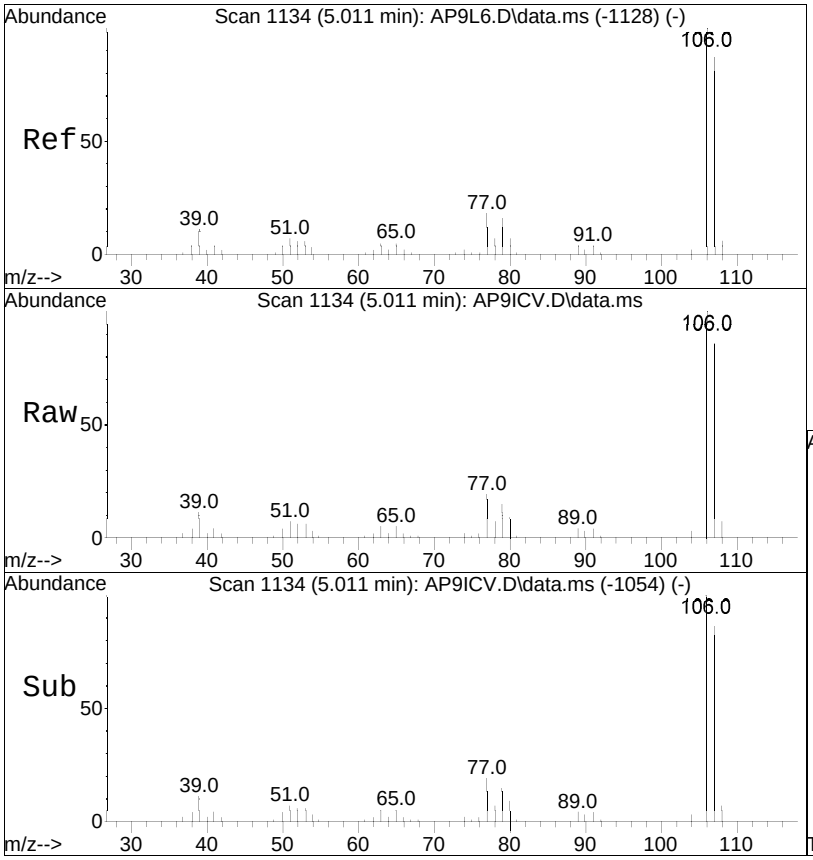


#29
Acetophenone
Concen: 4.63 ug/ml
RT: 4.927 min Scan# 1107
Delta R.T. -0.003 min
Lab File: AP9ICV.D
Acq: 18 Jun 2024 8:41 pm

Tgt Ion:105 Resp: 57288

Ion	Ratio	Lower	Upper
105	100		
120	15.1	20.5	30.7#
51	27.0	34.9	52.3#

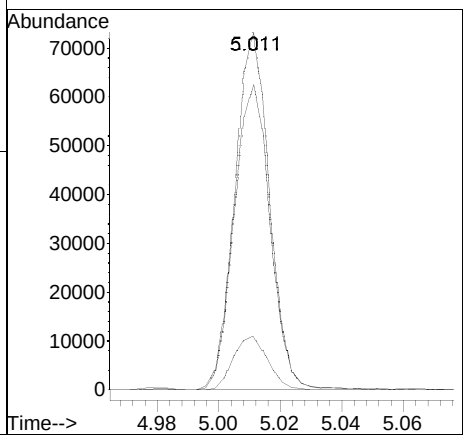


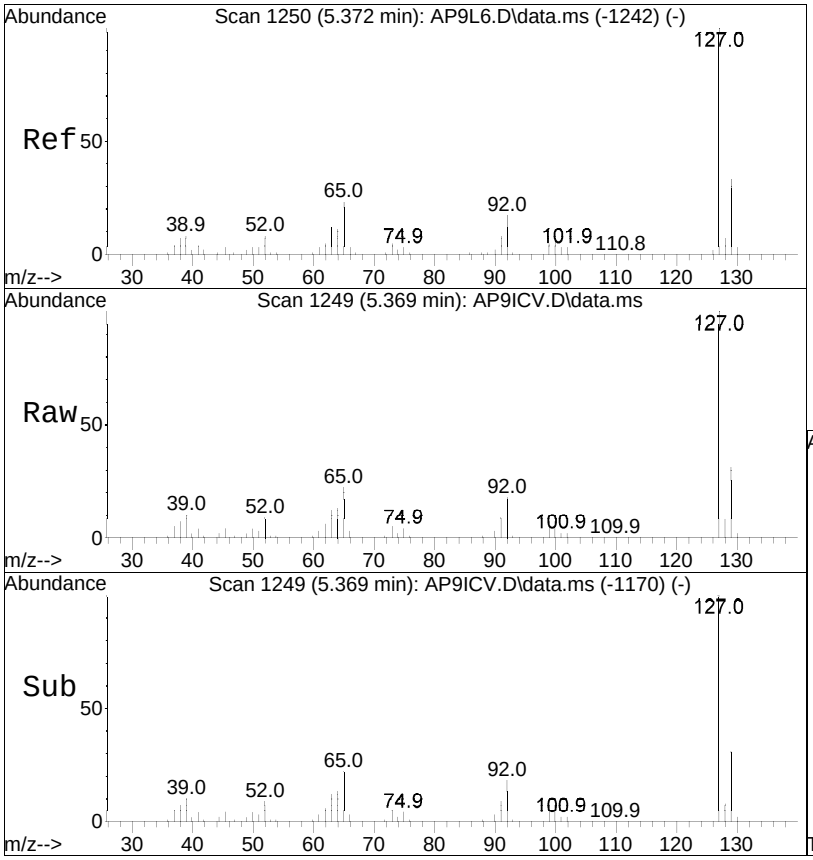


#30
m-Toluidine
Concen: 4.77 ug/ml
RT: 5.011 min Scan# 1134
Delta R.T. -0.000 min
Lab File: AP9ICV.D
Acq: 18 Jun 2024 8:41 pm

Tgt Ion:106 Resp: 56825

Ion	Ratio	Lower	Upper
106	100		
107	89.1	75.7	113.5
79	15.0	11.8	17.8

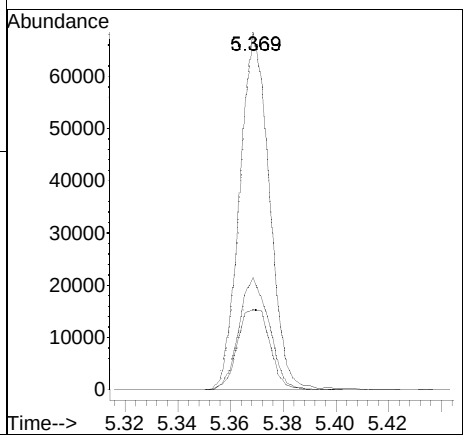


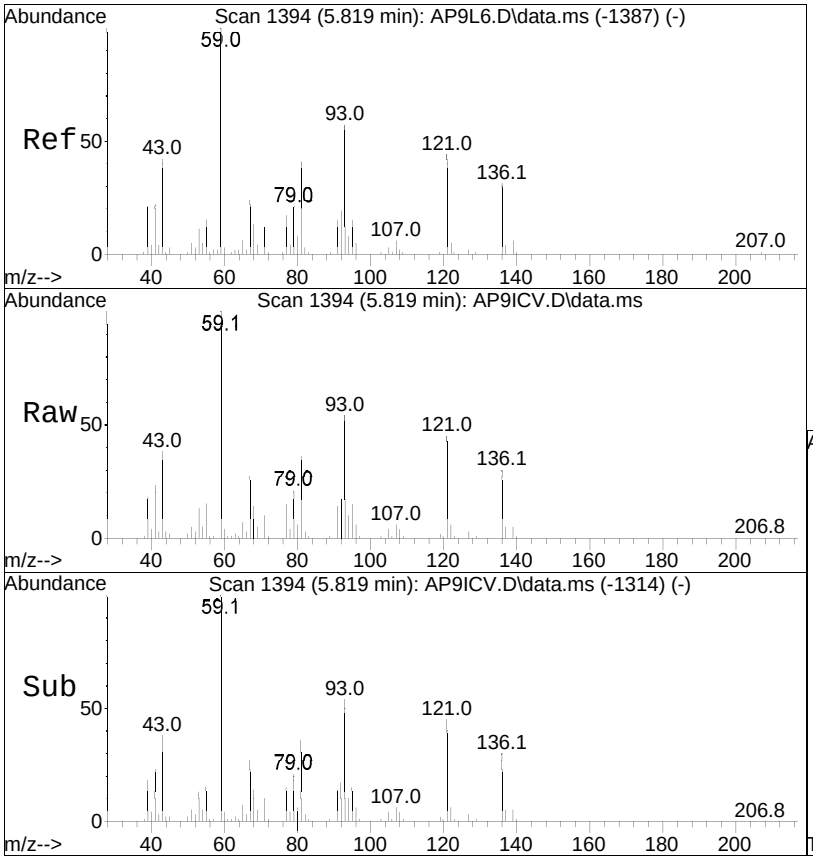


#31
2-Chloroaniline
Concen: 4.63 ug/ml
RT: 5.369 min Scan# 1249
Delta R.T. -0.003 min
Lab File: AP9ICV.D
Acq: 18 Jun 2024 8:41 pm

Tgt Ion:127 Resp: 53259

Ion	Ratio	Lower	Upper
127	100		
129	31.8	25.9	38.9
65	24.7	26.3	39.5#

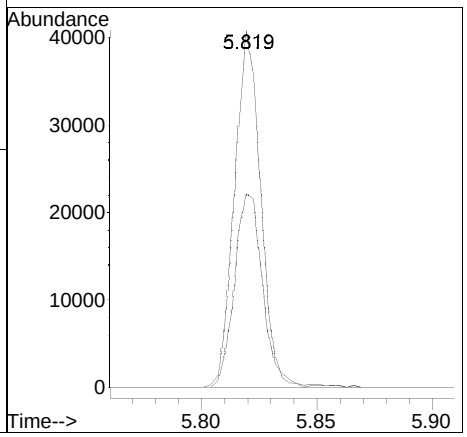


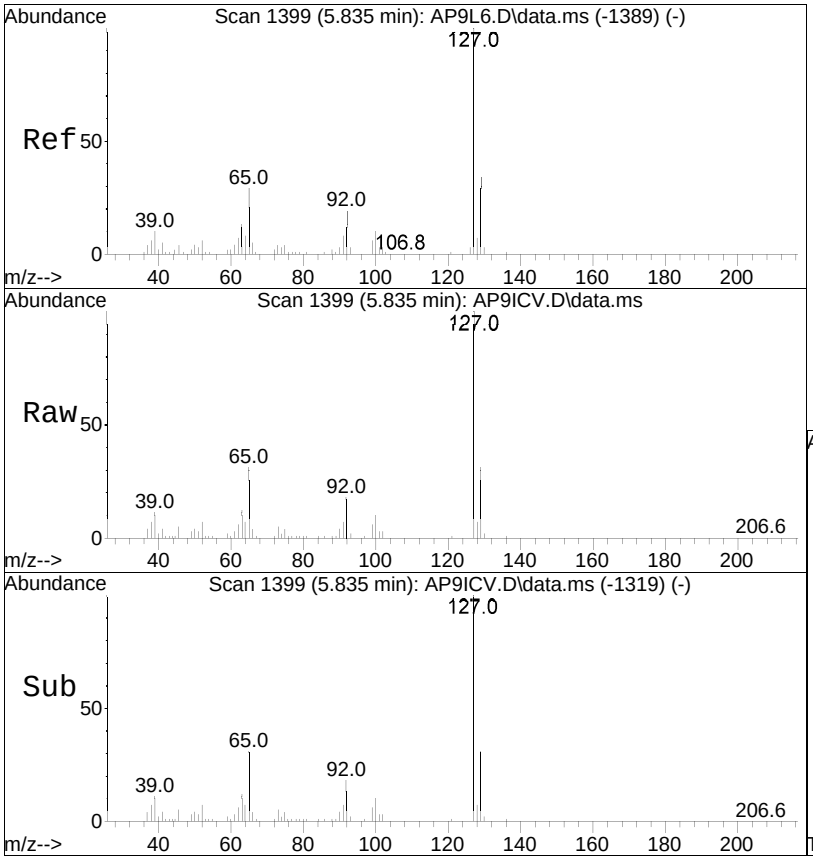


#56
a-Terpineol
Concen: 4.75 ug/ml
RT: 5.819 min Scan# 1394
Delta R.T. -0.000 min
Lab File: AP9ICV.D
Acq: 18 Jun 2024 8:41 pm

Tgt Ion: 59 Resp: 32051

Ion	Ratio	Lower	Upper
59	100		
93	58.3	35.6	53.4#

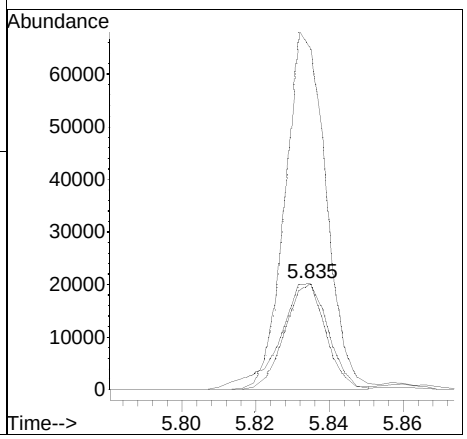


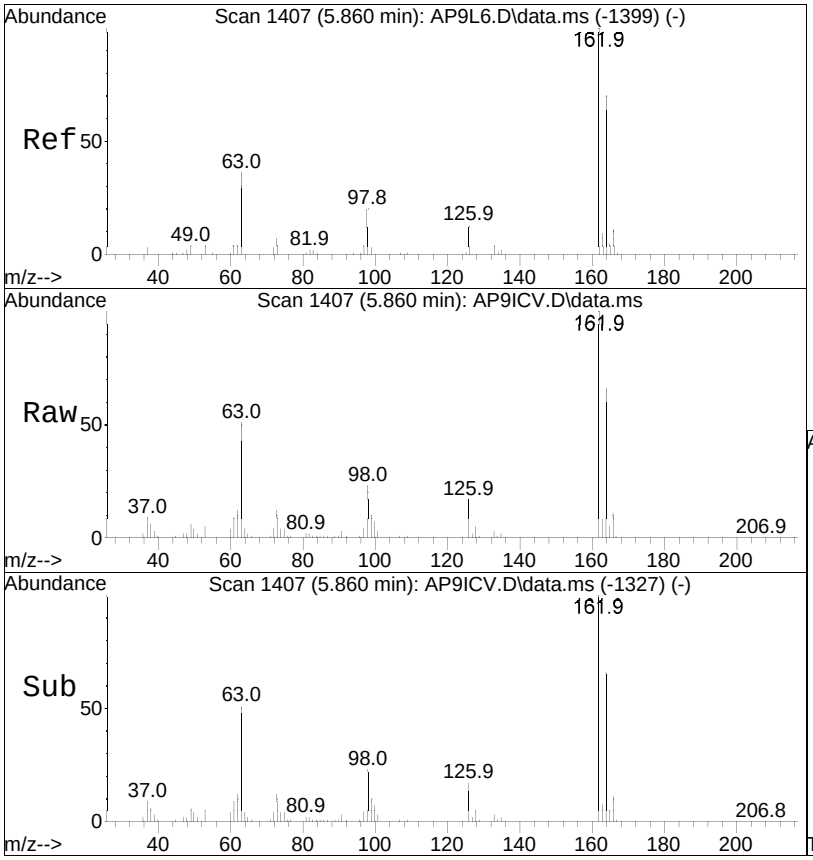


#57
3-Chloroaniline
Concen: 4.72 ug/ml
RT: 5.835 min Scan# 1399
Delta R.T. -0.000 min
Lab File: AP9ICV.D
Acq: 18 Jun 2024 8:41 pm

Tgt Ion: 65 Resp: 17735

Ion	Ratio	Lower	Upper
65	100		
127	293.8	243.2	364.8
129	92.5	78.8	118.2

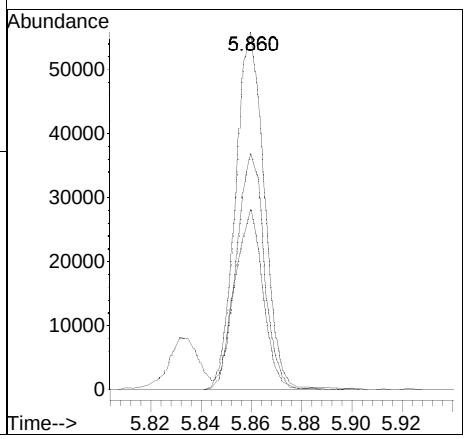


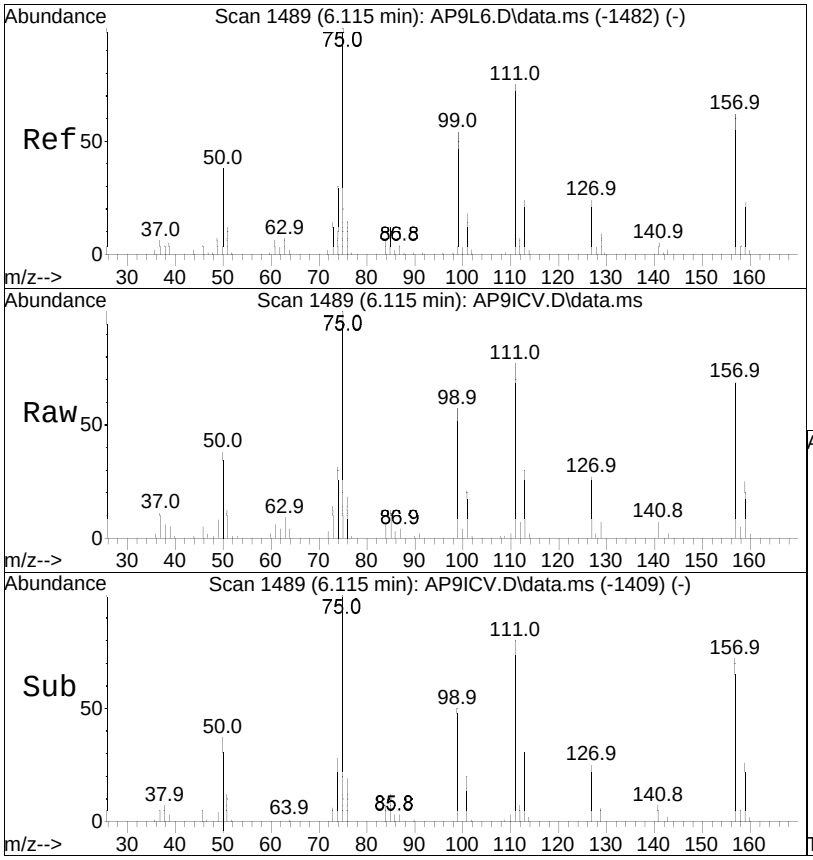


#58
2,6-Dichlorophenol
Concen: 4.71 ug/ml
RT: 5.860 min Scan# 1407
Delta R.T. -0.000 min
Lab File: AP9ICV.D
Acq: 18 Jun 2024 8:41 pm

Tgt Ion:162 Resp: 44313

Ion	Ratio	Lower	Upper
162	100		
164	64.4	51.1	76.7
63	49.5	60.8	91.2#

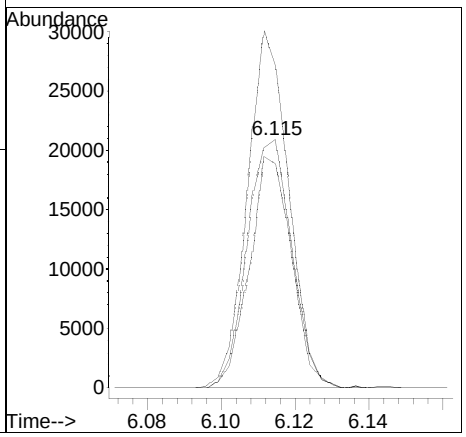


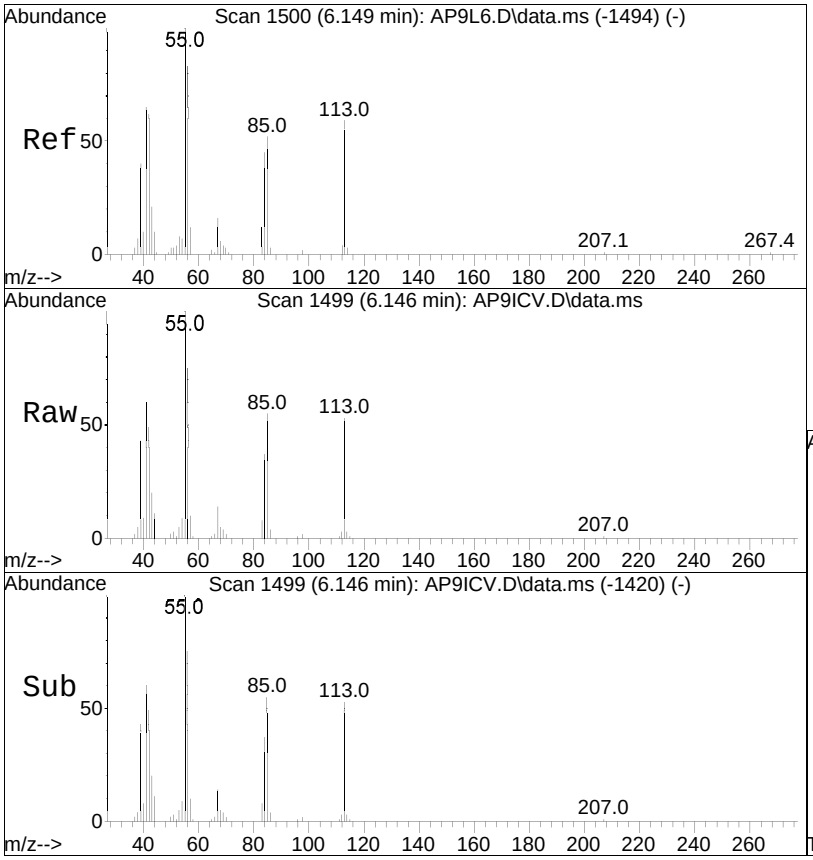


#59
1-chloro-2-nitrobenzene
Concen: 4.51 ug/ml
RT: 6.115 min Scan# 1489
Delta R.T. -0.000 min
Lab File: AP9ICV.D
Acq: 18 Jun 2024 8:41 pm

Tgt Ion:111 Resp: 17559

Ion	Ratio	Lower	Upper
111	100		
157	87.7	0.0	0.0#
75	132.6	28.2	42.2#

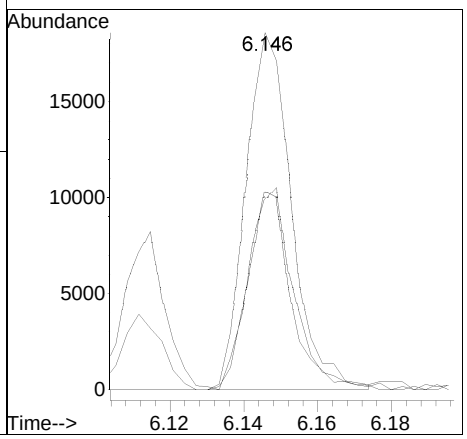


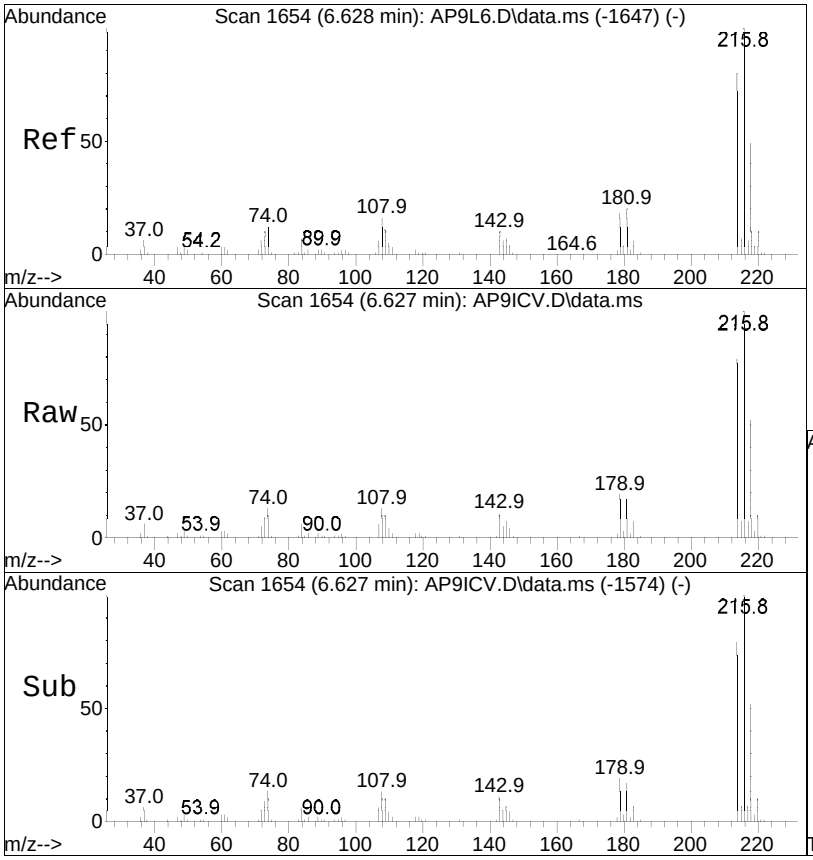


#60
Caprolactam
Concen: 4.76 ug/ml
RT: 6.146 min Scan# 1499
Delta R.T. -0.003 min
Lab File: AP9ICV.D
Acq: 18 Jun 2024 8:41 pm

Tgt Ion: 55 Resp: 15974

Ion	Ratio	Lower	Upper
55	100		
85	52.2	19.8	29.6#
113	56.7	29.6	44.4#

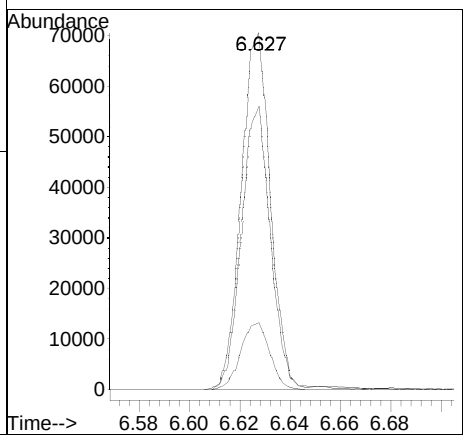


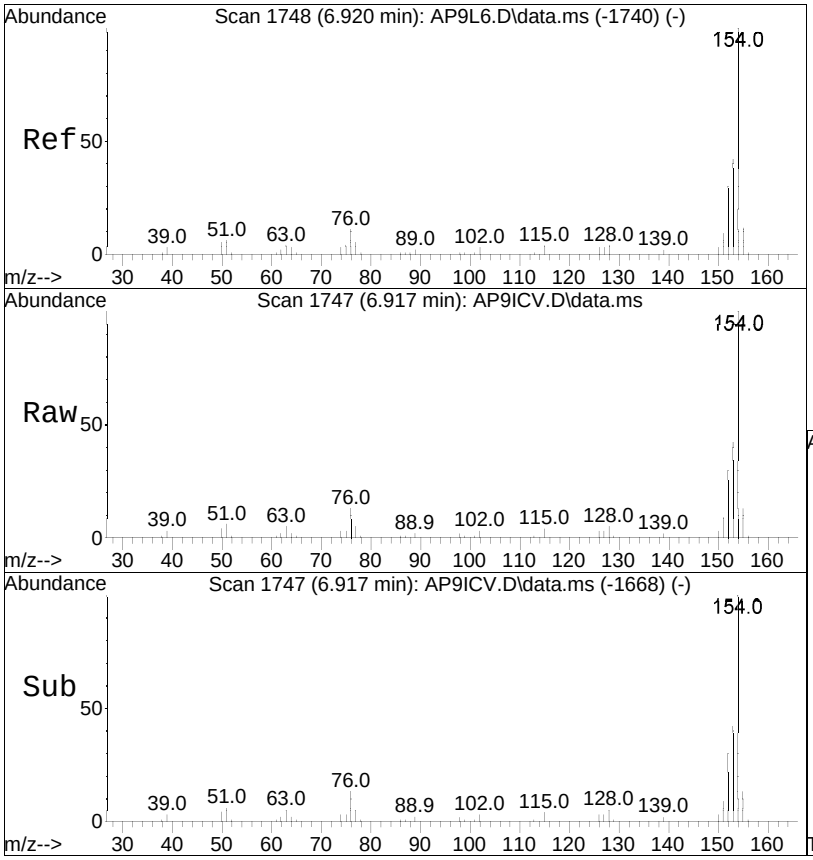


#61
1,2,4,5-Tetrachlorobenzene
Concen: 4.58 ug/ml
RT: 6.627 min Scan# 1654
Delta R.T. -0.000 min
Lab File: AP9ICV.D
Acq: 18 Jun 2024 8:41 pm

Tgt Ion:216 Resp: 57317

Ion	Ratio	Lower	Upper
216	100		
214	77.8	63.7	95.5
179	18.6	19.0	28.6#

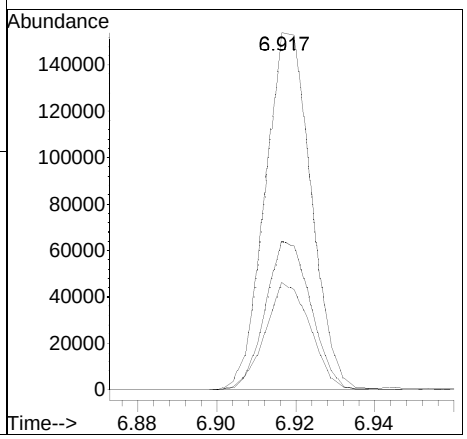


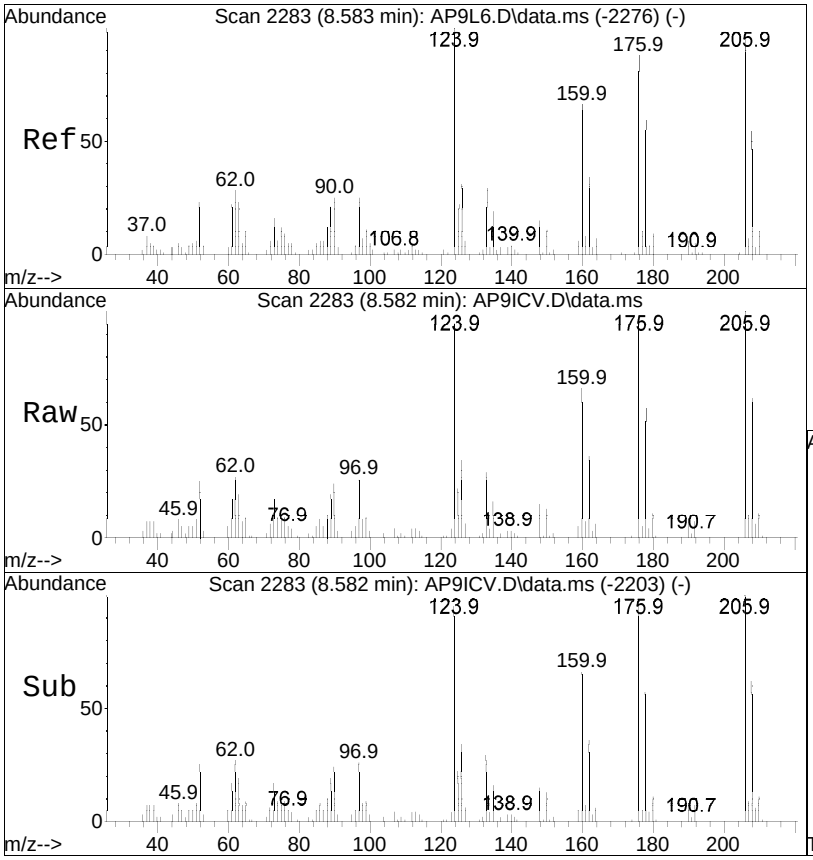


#62
Biphenyl
Concen: 4.63 ug/ml
RT: 6.917 min Scan# 1747
Delta R.T. -0.003 min
Lab File: AP9ICV.D
Acq: 18 Jun 2024 8:41 pm

Tgt Ion:154 Resp: 124053

Ion	Ratio	Lower	Upper
154	100		
153	41.4	32.3	48.5
152	29.7	22.5	33.7

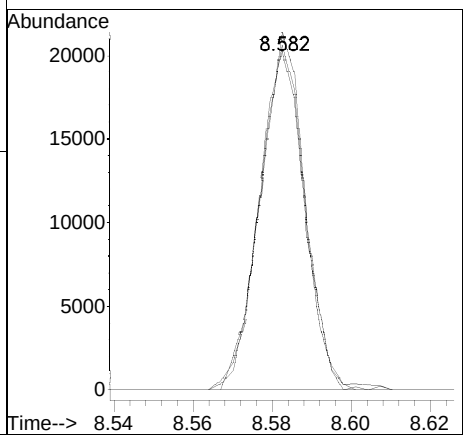


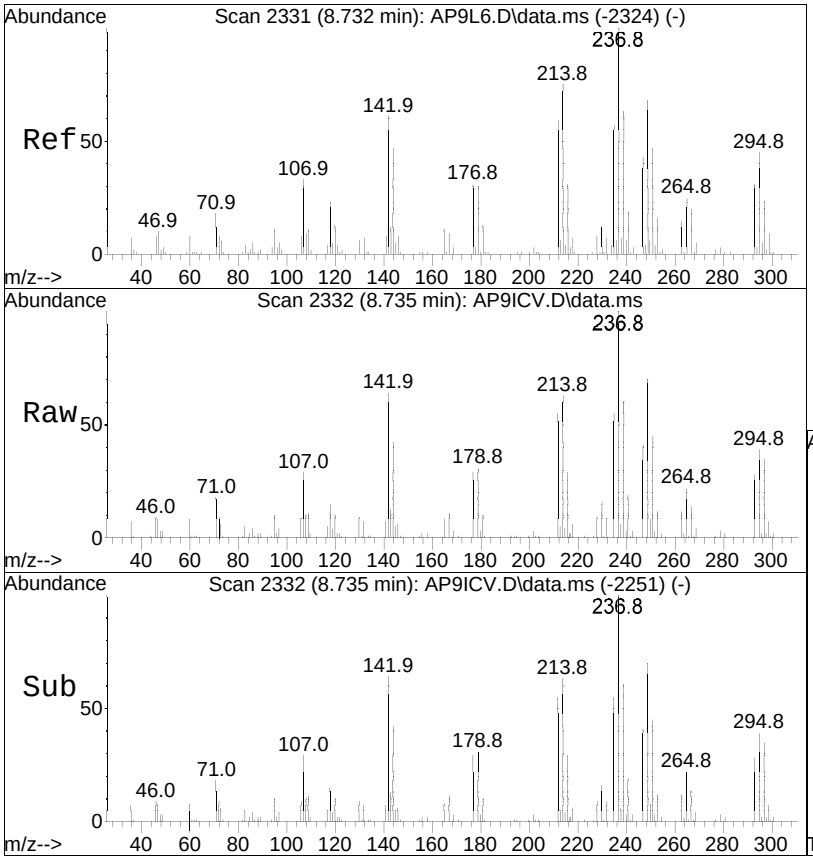


#84
Dichloran
Concen: 4.07 ug/ml
RT: 8.582 min Scan# 2283
Delta R.T. -0.000 min
Lab File: AP9ICV.D
Acq: 18 Jun 2024 8:41 pm

Tgt Ion:206 Resp: 16481

Ion	Ratio	Lower	Upper
206	100		
176	99.0	104.6	157.0#
124	98.1	130.5	195.7#

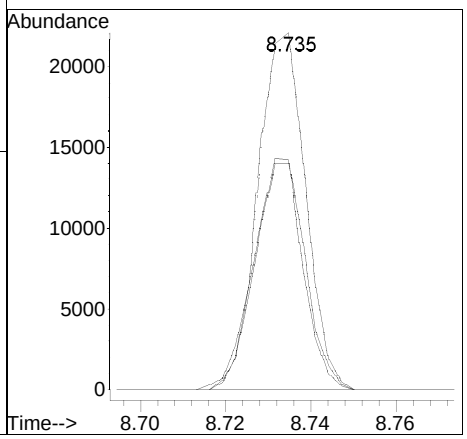


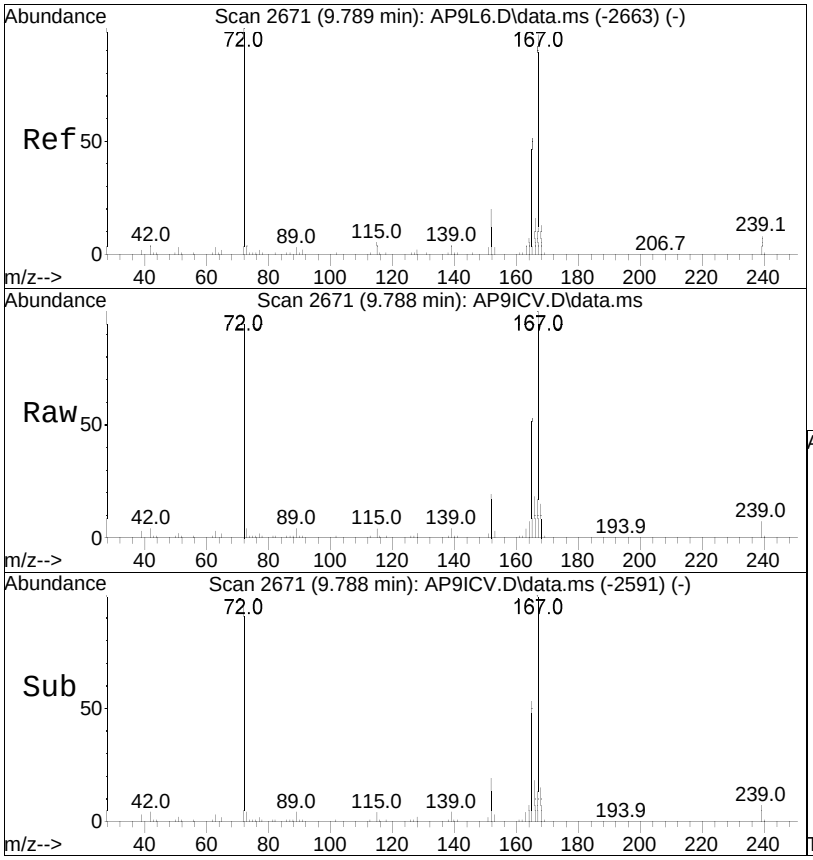


#85
Pentachloronitrobenzene
Concen: 4.54 ug/ml
RT: 8.735 min Scan# 2332
Delta R.T. 0.003 min
Lab File: AP9ICV.D
Acq: 18 Jun 2024 8:41 pm

Tgt Ion:237 Resp: 17148

Ion	Ratio	Lower	Upper
237	100		
142	67.0	77.0	115.4#
214	67.4	58.2	87.4

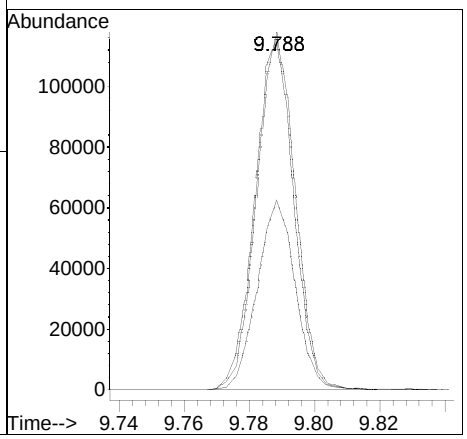




#99
Diphenamid
Concen: 4.57 ug/ml
RT: 9.788 min Scan# 2671
Delta R.T. -0.000 min
Lab File: AP9ICV.D
Acq: 18 Jun 2024 8:41 pm

Tgt Ion:167 Resp: 95301

Ion	Ratio	Lower	Upper
167	100		
72	99.2	109.7	164.5#
165	52.9	41.8	62.6



Manual Integration Report

Data Path	: I:\8270\Dakota\240618ical\	QMethod	: FS240618RVT_14D_Dakota.m
Data File	: AP9ICV.D	Operator	: Dakota:cmm
Date Inj'd	: 6/18/2024 8:41 pm	Instrument	: Dakota
Sample	: CQICV2,32,,AP9ICV Lot# 108	Quant Date	: 6/19/2024 10:05 pm

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\240618ical\
Data File : ADPL9.D
Acq On : 18 Jun 2024 9:04 pm
Operator : Dakota:cmm
Sample : IL2,32,,ADPL50 Lot# 10796
Misc : WG1938219,,
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Jun 19 21:56:10 2024
Quant Method : I:\8270\Dakota\240618ical\FS240618RVT_14D_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Jun 19 21:54:56 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\240618ical\ADPL6.D
Sub List : ADPical_REV2 - ADP sublist

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
	Internal Standards						
32)	IS3_1,4-Dichlorobenzen...	4.524	152	27084	4.000	ug/ml	0.00
	Standard Area 1 = 27937			Recovery =	96.95%		
86)	IS3_Acenaphthene-d10	7.458	164	66371	4.000	ug/ml	0.00
	Standard Area 1 = 67365			Recovery =	98.52%		
100)	IS3_Phenanthrene-d10	8.881	188	156352	4.000	ug/ml	0.00
	Standard Area 1 = 163081			Recovery =	95.87%		
	System Monitoring Compounds						
	Target Compounds						Qvalue
33)	1,4-Dioxane	1.599	88	147965	48.558	ug/ml#	43
34)	n-Decane	4.421	57	332708	46.405	ug/ml#	30
87)	Atrazine	8.673	200	389103	52.106	ug/ml	91
101)	n-Octadecane	8.875	57	614484	49.225	ug/ml#	1
102)	Parathion	9.674	109	235912	49.646	ug/ml	93
103)	3,3'-Dimethylbenzidine	10.942	212	1640695	57.122	ug/ml	97

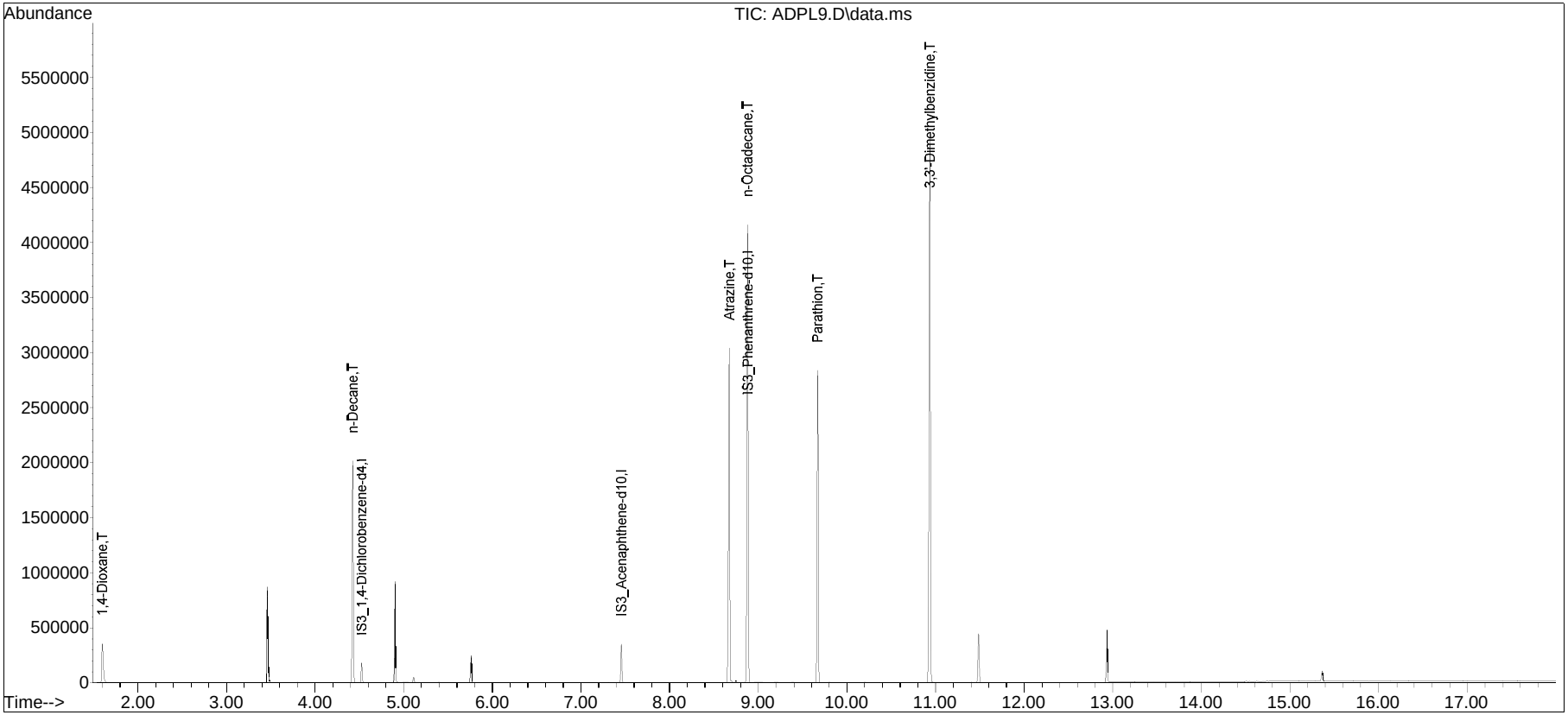
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\240618ical\
Data File : ADPL9.D
Acq On : 18 Jun 2024 9:04 pm
Operator : Dakota:cmm
Sample : IL2,32,,ADPL50 Lot# 10796
Misc : WG1938219,,
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Jun 19 21:56:10 2024
Quant Method : I:\8270\Dakota\240618ical\FS240618RVT_14D_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Jun 19 21:54:56 2024
Response via : Initial Calibration

Sub List : ADPical_REV2 - ADP sublistcal\ADPL6.D•



Manual Integration Report

Data Path	: I:\8270\Dakota\240618ical\	QMethod	: FS240618RVT_14D_Dakota.m
Data File	: ADPL9.D	Operator	: Dakota:cmm
Date Inj'd	: 6/18/2024 9:04 pm	Instrument	: Dakota
Sample	: IL2,32,,ADPL50 Lot# 10796	Quant Date	: 6/19/2024 9:56 pm

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\240618ical\
Data File : ADPL8.D
Acq On : 18 Jun 2024 9:26 pm
Operator : Dakota:cmm
Sample : IL3,32,,ADPL25 Lot# 10797
Misc : WG1938219,,
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Jun 19 21:55:59 2024
Quant Method : I:\8270\Dakota\240618ical\FS240618RVT_14D_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Jun 19 21:54:56 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\240618ical\ADPL6.D
Sub List : ADPical_REV2 - ADP sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
32) IS3_1,4-Dichlorobenzen...	4.527	152	27742	4.000	ug/ml	0.00
Standard Area 1 = 27937			Recovery =	99.30%		
86) IS3_Acenaphthene-d10	7.457	164	71046	4.000	ug/ml	0.00
Standard Area 1 = 67365			Recovery =	105.46%		
100) IS3_Phenanthrene-d10	8.881	188	163800	4.000	ug/ml	0.00
Standard Area 1 = 163081			Recovery =	100.44%		
System Monitoring Compounds						
Target Compounds						Qvalue
33) 1,4-Dioxane	1.605	88	74785	23.960	ug/ml#	42
34) n-Decane	4.421	57	173375	23.608	ug/ml#	31
87) Atrazine	8.670	200	198209	24.796	ug/ml#	90
101) n-Octadecane	8.875	57	319298	24.415	ug/ml#	1
102) Parathion	9.674	109	115567	25.892	ug/ml	91
103) 3,3'-Dimethylbenzidine	10.939	212	883105	29.348	ug/ml	98

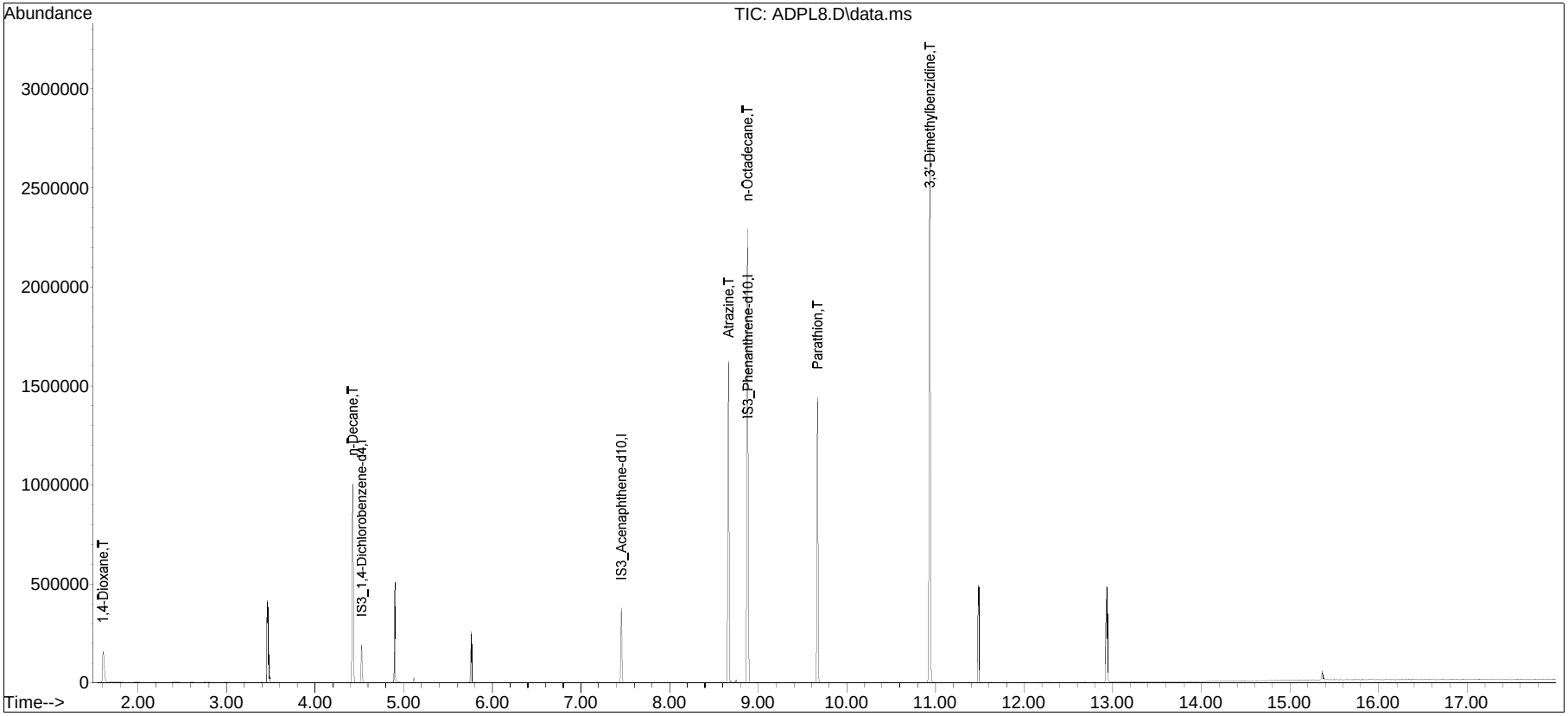
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\240618ical\
Data File : ADPL8.D
Acq On : 18 Jun 2024 9:26 pm
Operator : Dakota:cmm
Sample : IL3,32,,ADPL25 Lot# 10797
Misc : WG1938219,,
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Jun 19 21:55:59 2024
Quant Method : I:\8270\Dakota\240618ical\FS240618RVT_14D_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Jun 19 21:54:56 2024
Response via : Initial Calibration

Sub List : ADPical_REV2 - ADP sublistcal\ADPL6.D•



Manual Integration Report

Data Path	: I:\8270\Dakota\240618ical\	QMethod	: FS240618RVT_14D_Dakota.m
Data File	: ADPL8.D	Operator	: Dakota:cmm
Date Inj'd	: 6/18/2024 9:26 pm	Instrument	: Dakota
Sample	: IL3,32,,ADPL25 Lot# 10797	Quant Date	: 6/19/2024 9:56 pm

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\240618ical\
Data File : ADPL7.D
Acq On : 18 Jun 2024 9:49 pm
Operator : Dakota:cmm
Sample : IL4,32,,ADPL10 Lot# 10798
Misc : WG1938219,,
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Jun 19 21:55:47 2024
Quant Method : I:\8270\Dakota\240618ical\FS240618RVT_14D_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Jun 19 21:54:56 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\240618ical\ADPL6.D
Sub List : ADPical_REV2 - ADP sublist

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
	Internal Standards						
32)	IS3_1,4-Dichlorobenzen...	4.527	152	30020	4.000	ug/ml	0.00
	Standard Area 1 = 27937			Recovery =	107.46%		
86)	IS3_Acenaphthene-d10	7.458	164	74233	4.000	ug/ml	0.00
	Standard Area 1 = 67365			Recovery =	110.20%		
100)	IS3_Phenanthrene-d10	8.881	188	177165	4.000	ug/ml	0.00
	Standard Area 1 = 163081			Recovery =	108.64%		
	System Monitoring Compounds						
	Target Compounds						Qvalue
33)	1,4-Dioxane	1.620	88	32647	9.666	ug/ml#	40
34)	n-Decane	4.424	57	74558	9.382	ug/ml#	29
87)	Atrazine	8.663	200	85465	10.233	ug/ml#	89
101)	n-Octadecane	8.872	57	137816	9.743	ug/ml#	1
102)	Parathion	9.670	109	45623	10.304	ug/ml	90
103)	3,3'-Dimethylbenzidine	10.935	212	363271	11.162	ug/ml	98

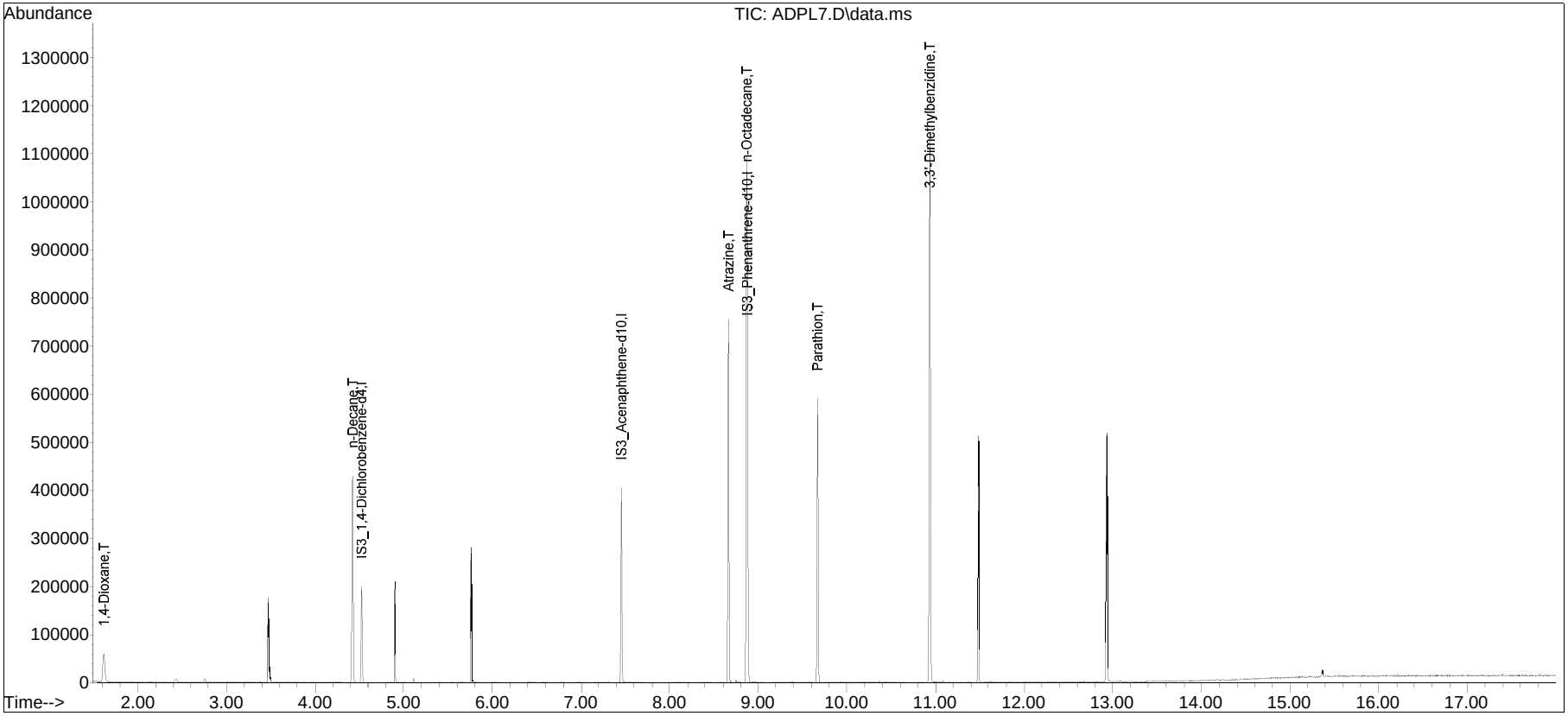
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\240618ical\
Data File : ADPL7.D
Acq On : 18 Jun 2024 9:49 pm
Operator : Dakota:cmm
Sample : IL4,32,,ADPL10 Lot# 10798
Misc : WG1938219,,
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Jun 19 21:55:47 2024
Quant Method : I:\8270\Dakota\240618ical\FS240618RVT_14D_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Jun 19 21:54:56 2024
Response via : Initial Calibration

Sub List : ADPical_REV2 - ADP sublistcal\ADPL6.D•



Manual Integration Report

Data Path	: I:\8270\Dakota\240618ical\	QMethod	: FS240618RVT_14D_Dakota.m
Data File	: ADPL7.D	Operator	: Dakota:cmm
Date Inj'd	: 6/18/2024 9:49 pm	Instrument	: Dakota
Sample	: IL4,32,,ADPL10 Lot# 10798	Quant Date	: 6/19/2024 9:56 pm

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\240618ical\
Data File : ADPL6.D
Acq On : 18 Jun 2024 10:11 pm
Operator : Dakota:cmm
Sample : IL5,32,,ADPL5 Lot# 10799
Misc : WG1938219,,
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Jun 19 21:55:35 2024
Quant Method : I:\8270\Dakota\240618ical\FS240618RVT_14D_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Jun 19 21:54:56 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\240618ical\ADPL6.D
Sub List : ADPical_REV2 - ADP sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
32) IS3_1,4-Dichlorobenzen...	4.526	152	27937	4.000	ug/ml	0.00
Standard Area 1 = 27937			Recovery =	100.00%		
86) IS3_Acenaphthene-d10	7.457	164	67365	4.000	ug/ml	0.00
Standard Area 1 = 67365			Recovery =	100.00%		
100) IS3_Phenanthrene-d10	8.881	188	163081	4.000	ug/ml	0.00
Standard Area 1 = 163081			Recovery =	100.00%		
System Monitoring Compounds						
Target Compounds						Qvalue
33) 1,4-Dioxane	1.605	88	14122	4.493	ug/ml#	46
34) n-Decane	4.421	57	31760	4.295	ug/ml#	30
87) Atrazine	8.663	200	32605	4.302	ug/ml#	90
101) n-Octadecane	8.872	57	57417	4.410	ug/ml#	1
102) Parathion	9.670	109	16306	4.232	ug/ml	90
103) 3,3'-Dimethylbenzidine	10.932	212	138219	4.614	ug/ml	97

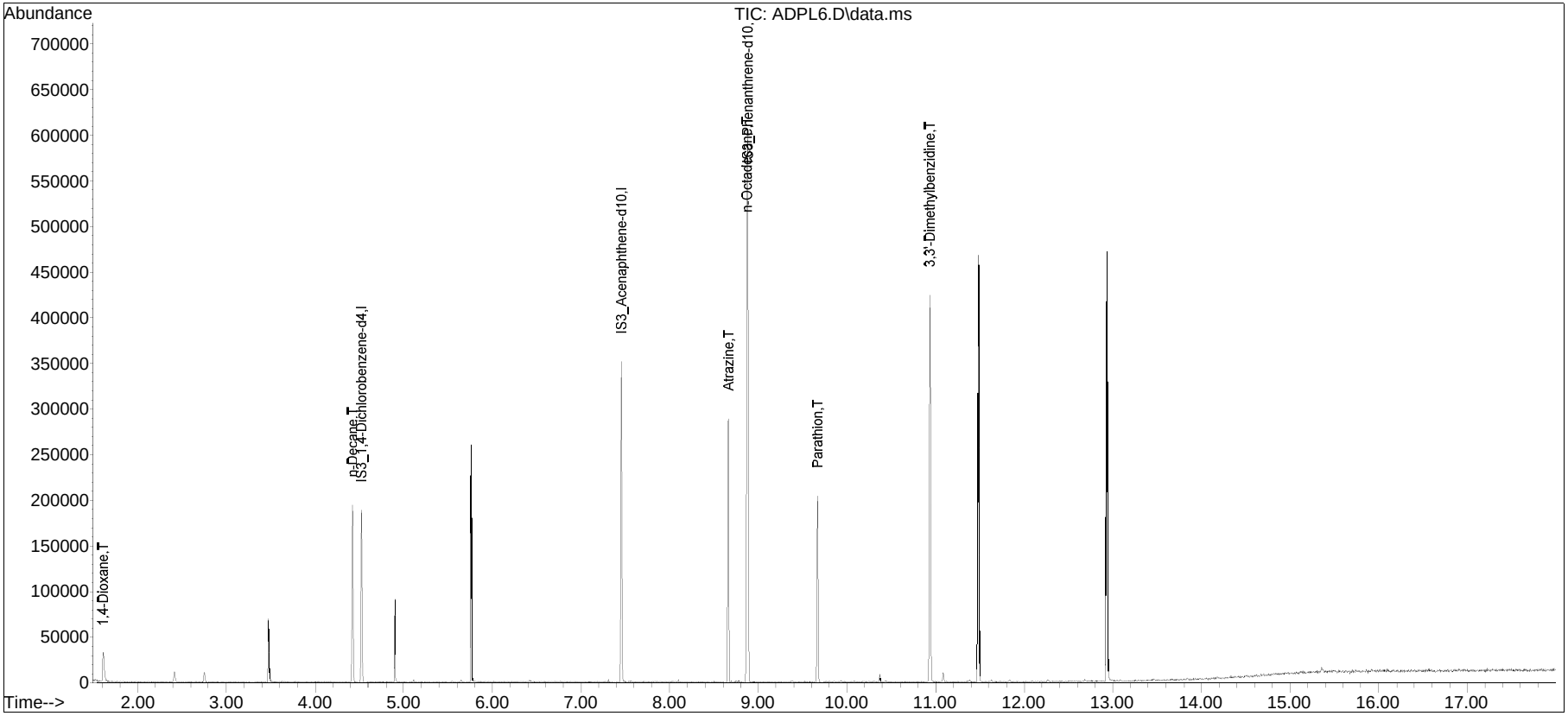
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\240618ical\
Data File : ADPL6.D
Acq On : 18 Jun 2024 10:11 pm
Operator : Dakota:cmm
Sample : IL5,32,,ADPL5 Lot# 10799
Misc : WG1938219,,
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Jun 19 21:55:35 2024
Quant Method : I:\8270\Dakota\240618ical\FS240618RVT_14D_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Jun 19 21:54:56 2024
Response via : Initial Calibration

Sub List : ADPical_REV2 - ADP sublistcal\ADPL6.D•



Manual Integration Report

Data Path	: I:\8270\Dakota\240618ical\	QMethod	: FS240618RVT_14D_Dakota.m
Data File	: ADPL6.D	Operator	: Dakota:cmm
Date Inj'd	: 6/18/2024 10:11 pm	Instrument	: Dakota
Sample	: IL5,32,,ADPL5 Lot# 10799	Quant Date	: 6/19/2024 9:56 pm

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\240618ical\
Data File : ADPL5.D
Acq On : 18 Jun 2024 10:34 pm
Operator : Dakota:cmm
Sample : IL6,32,,ADPL2.5 Lot# 10800
Misc : WG1938219,,
ALS Vial : 25 Sample Multiplier: 1

Quant Time: Jun 19 21:55:24 2024
Quant Method : I:\8270\Dakota\240618ical\FS240618RVT_14D_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Jun 19 21:54:56 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\240618ical\ADPL6.D
Sub List : ADPical_REV2 - ADP sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
32) IS3_1,4-Dichlorobenzen...	4.526	152	27738	4.000	ug/ml	0.00
Standard Area 1 = 27937			Recovery =	99.29%		
86) IS3_Acenaphthene-d10	7.457	164	64886	4.000	ug/ml	0.00
Standard Area 1 = 67365			Recovery =	96.32%		
100) IS3_Phenanthrene-d10	8.881	188	153731	4.000	ug/ml	0.00
Standard Area 1 = 163081			Recovery =	94.27%		
System Monitoring Compounds						
Target Compounds						Qvalue
33) 1,4-Dioxane	1.611	88	7353	2.356	ug/ml#	43
34) n-Decane	4.421	57	16773	2.284	ug/ml#	28
87) Atrazine	8.660	200	16566	2.269	ug/ml	93
101) n-Octadecane	8.872	57	29591	2.411	ug/ml#	1
102) Parathion	9.670	109	7790	2.252	ug/ml	91
103) 3,3'-Dimethylbenzidine	10.932	212	63722	2.256	ug/ml	98

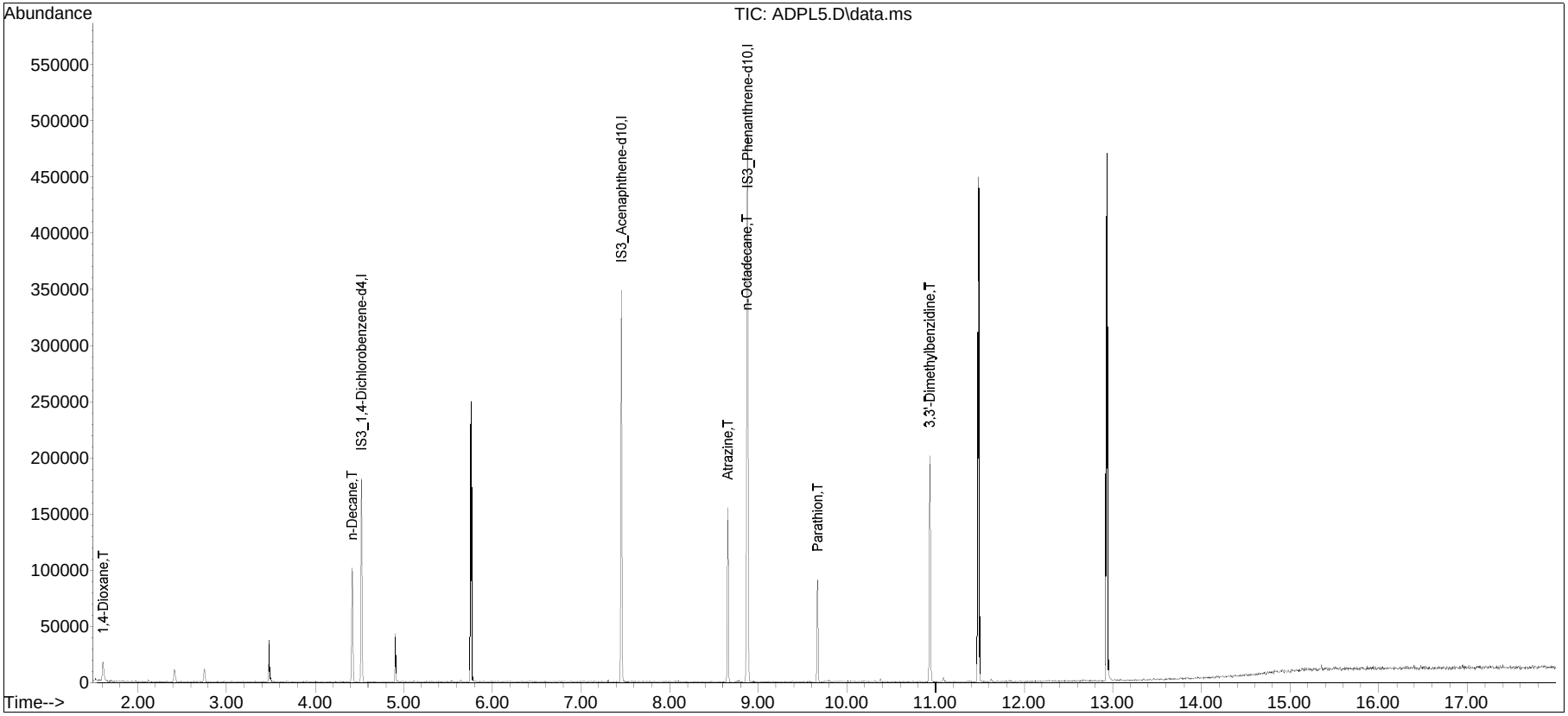
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\240618ical\
Data File : ADPL5.D
Acq On : 18 Jun 2024 10:34 pm
Operator : Dakota:cmm
Sample : IL6,32,,ADPL2.5 Lot# 10800
Misc : WG1938219,,
ALS Vial : 25 Sample Multiplier: 1

Quant Time: Jun 19 21:55:24 2024
Quant Method : I:\8270\Dakota\240618ical\FS240618RVT_14D_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Jun 19 21:54:56 2024
Response via : Initial Calibration

Sub List : ADPical_REV2 - ADP sublistcal\ADPL6.D•



Manual Integration Report

Data Path	: I:\8270\Dakota\240618ical\	QMethod	: FS240618RVT_14D_Dakota.m
Data File	: ADPL5.D	Operator	: Dakota:cmm
Date Inj'd	: 6/18/2024 10:34 pm	Instrument	: Dakota
Sample	: IL6,32,,ADPL2.5 Lot# 10800	Quant Date	: 6/19/2024 9:56 pm

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\240618ical\
Data File : ADPL4.D
Acq On : 18 Jun 2024 10:56 pm
Operator : Dakota:cmm
Sample : IL7,32,,ADPL1 Lot# 10801
Misc : WG1938219,,
ALS Vial : 26 Sample Multiplier: 1

Quant Time: Jun 19 21:55:12 2024
Quant Method : I:\8270\Dakota\240618ical\FS240618RVT_14D_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Jun 19 21:54:56 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\240618ical\ADPL6.D
Sub List : ADPical_REV2 - ADP sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
32) IS3_1,4-Dichlorobenzen...	4.526	152	27974	4.000	ug/ml	0.00
Standard Area 1 = 27937			Recovery =	100.13%		
86) IS3_Acenaphthene-d10	7.457	164	66121	4.000	ug/ml	0.00
Standard Area 1 = 67365			Recovery =	98.15%		
100) IS3_Phenanthrene-d10	8.881	188	163923	4.000	ug/ml	0.00
Standard Area 1 = 163081			Recovery =	100.52%		
System Monitoring Compounds						
Target Compounds						Qvalue
33) 1,4-Dioxane	1.611	88	3640	1.157	ug/ml#	40
34) n-Decane	4.424	57	8757	1.183	ug/ml#	35
87) Atrazine	8.660	200	8061	1.084	ug/ml	90
101) n-Octadecane	8.872	57	12723	0.972	ug/ml#	1
102) Parathion	9.670	109	3555	1.069	ug/ml	91
103) 3,3'-Dimethylbenzidine	10.932	212	27450	0.912	ug/ml	98

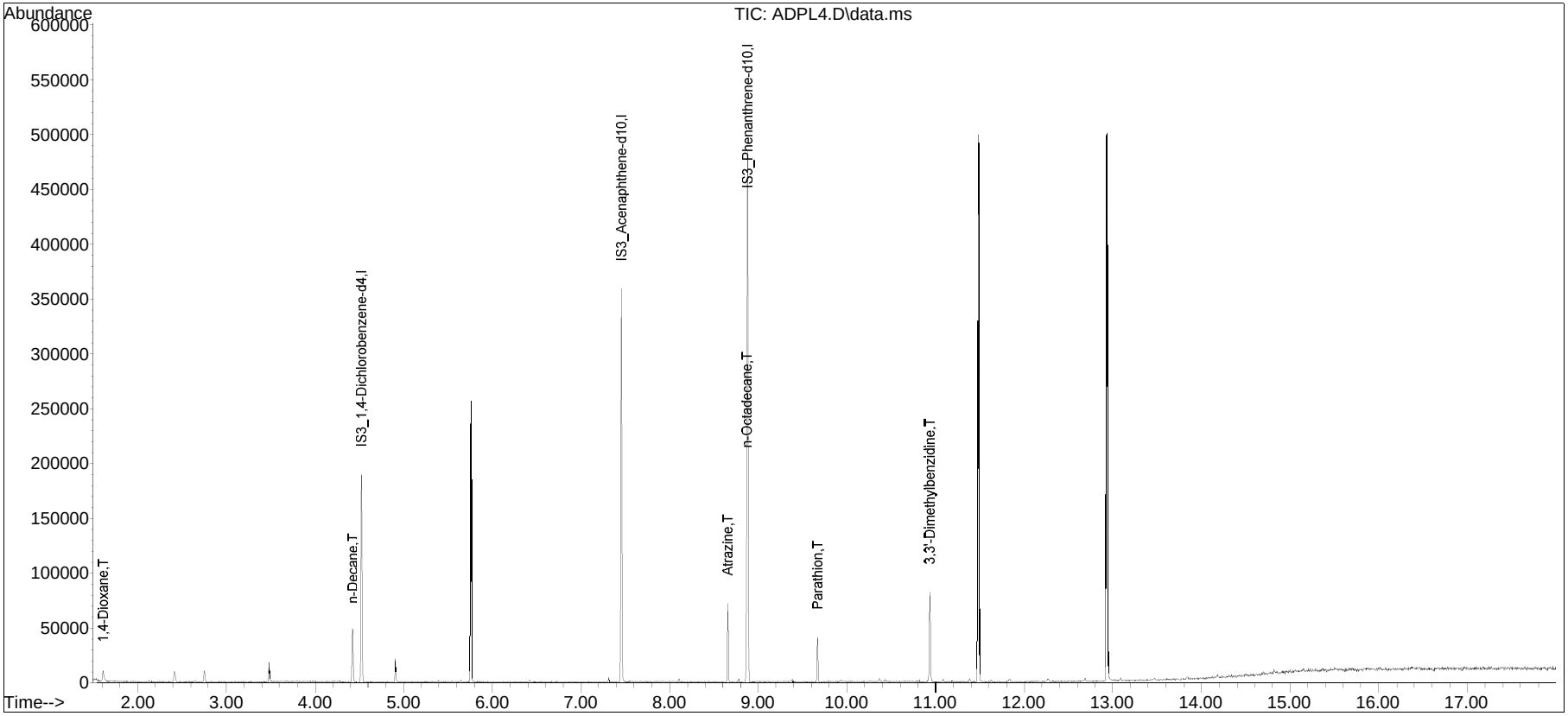
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\240618ical\
Data File : ADPL4.D
Acq On : 18 Jun 2024 10:56 pm
Operator : Dakota:cmm
Sample : IL7,32,,ADPL1 Lot# 10801
Misc : WG1938219,,
ALS Vial : 26 Sample Multiplier: 1

Quant Time: Jun 19 21:55:12 2024
Quant Method : I:\8270\Dakota\240618ical\FS240618RVT_14D_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Jun 19 21:54:56 2024
Response via : Initial Calibration

Sub List : ADPical_REV2 - ADP sublistcal\ADPL6.D•



Manual Integration Report

Data Path	: I:\8270\Dakota\240618ical\	QMethod	: FS240618RVT_14D_Dakota.m
Data File	: ADPL4.D	Operator	: Dakota:cmm
Date Inj'd	: 6/18/2024 10:56 pm	Instrument	: Dakota
Sample	: IL7,32,,ADPL1 Lot# 10801	Quant Date	: 6/19/2024 9:55 pm

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\240618ical\
Data File : ADPL3.D
Acq On : 18 Jun 2024 11:19 pm
Operator : Dakota:cmm
Sample : IL8,32,,ADPL0.5 Lot# 10802
Misc : WG1938219,,
ALS Vial : 27 Sample Multiplier: 1

Quant Time: Jun 19 21:55:02 2024
Quant Method : I:\8270\Dakota\240618ical\FS240618RVT_14D_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Jun 19 21:54:56 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\240618ical\ADPL6.D
Sub List : ADPical_REV2 - ADP sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
32) IS3_1,4-Dichlorobenzen...	4.527	152	27076	4.000	ug/ml	0.00
Standard Area 1 = 27937			Recovery =	96.92%		
86) IS3_Acenaphthene-d10	7.458	164	62951	4.000	ug/ml	0.00
Standard Area 1 = 67365			Recovery =	93.45%		
100) IS3_Phenanthrene-d10	8.881	188	150713	4.000	ug/ml	0.00
Standard Area 1 = 163081			Recovery =	92.42%		
System Monitoring Compounds						
Target Compounds						Qvalue
33) 1,4-Dioxane	1.621	88	1532	0.503	ug/ml#	28
34) n-Decane	4.424	57	3799	0.530	ug/ml#	34
87) Atrazine	8.660	200	3596	0.508	ug/ml#	87
101) n-Octadecane	8.872	57	6430	0.534	ug/ml#	1
102) Parathion	9.671	109	1414	0.562	ug/ml#	82
103) 3,3'-Dimethylbenzidine	10.932	212	11499	0.415	ug/ml	98

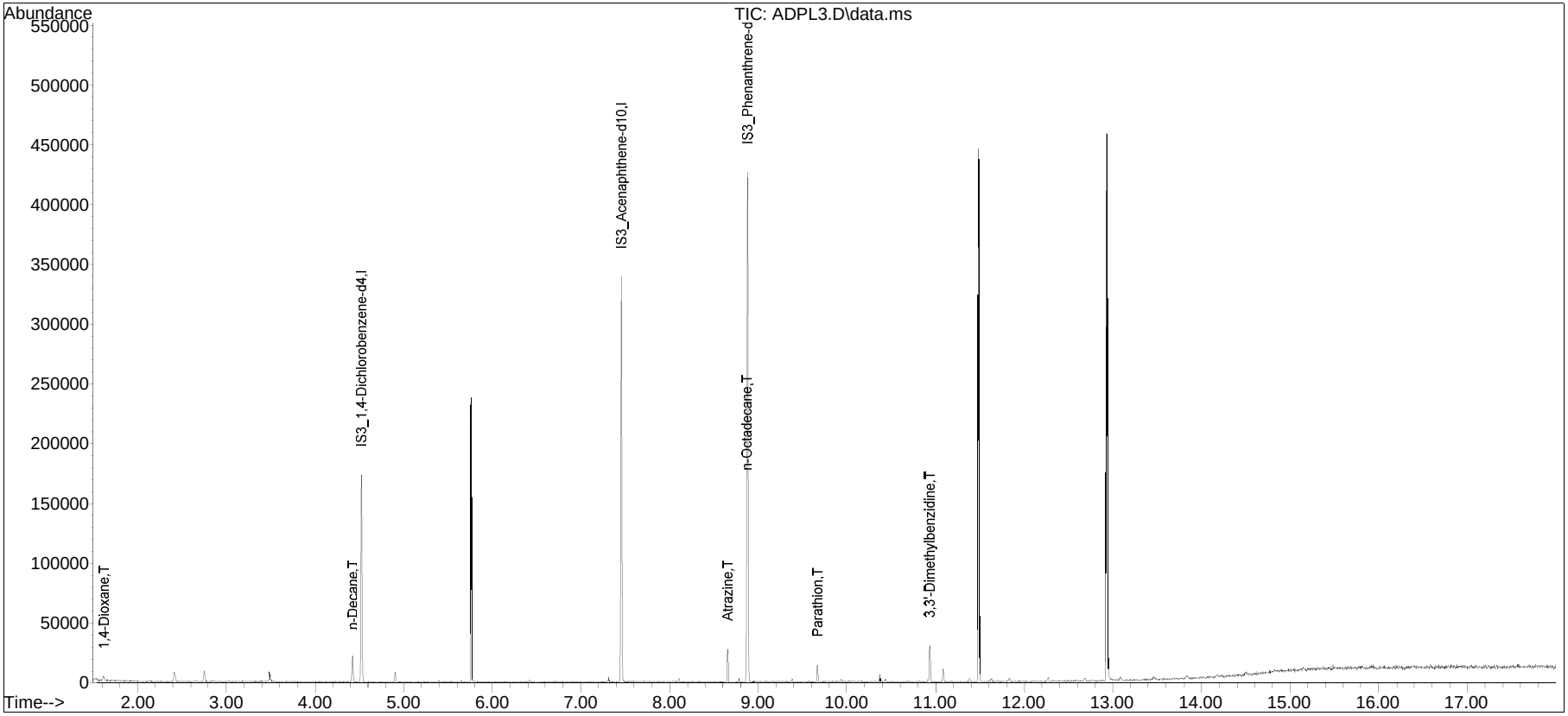
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\240618ical\
Data File : ADPL3.D
Acq On : 18 Jun 2024 11:19 pm
Operator : Dakota:cmm
Sample : IL8,32,,ADPL0.5 Lot# 10802
Misc : WG1938219,,
ALS Vial : 27 Sample Multiplier: 1

Quant Time: Jun 19 21:55:02 2024
Quant Method : I:\8270\Dakota\240618ical\FS240618RVT_14D_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Jun 19 21:54:56 2024
Response via : Initial Calibration

Sub List : ADPical_REV2 - ADP sublistcal\ADPL6.D•



Manual Integration Report

Data Path	: I:\8270\Dakota\240618ical\	QMethod	: FS240618RVT_14D_Dakota.m
Data File	: ADPL3.D	Operator	: Dakota:cmm
Date Inj'd	: 6/18/2024 11:19 pm	Instrument	: Dakota
Sample	: IL8,32,,ADPL0.5 Lot# 10802	Quant Date	: 6/19/2024 9:55 pm

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\240618ical\
Data File : ADPL2.D
Acq On : 18 Jun 2024 11:41 pm
Operator : Dakota:cmm
Sample : IL9,32,,ADPL0.2 Lot# 10803
Misc : WG1938219,,
ALS Vial : 28 Sample Multiplier: 1

Quant Time: Jun 19 21:54:50 2024
Quant Method : I:\8270\Dakota\240618ical\FS240618RVT_14D_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Jun 19 21:54:56 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\240618ical\ADPL6.D
Sub List : ADPical_REV2 - ADP sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
32) IS3_1,4-Dichlorobenzen...	4.527	152	28470	4.000	ug/ml	0.00
Standard Area 1 = 27937			Recovery =	101.91%		
86) IS3_Acenaphthene-d10	7.457	164	67997	4.000	ug/ml	0.00
Standard Area 1 = 67365			Recovery =	100.94%		
100) IS3_Phenanthrene-d10	8.881	188	163240	4.000	ug/ml	0.00
Standard Area 1 = 163081			Recovery =	100.10%		
System Monitoring Compounds						
Target Compounds						Qvalue
33) 1,4-Dioxane	1.620	88	705	0.220	ug/ml#	56
34) n-Decane	4.418	57	1656	0.220	ug/ml#	36
87) Atrazine	8.660	200	1474	0.193	ug/ml	91
101) n-Octadecane	8.872	57	2780	0.213	ug/ml#	1
102) Parathion	9.670	109	527	0.308	ug/ml#	56
103) 3,3'-Dimethylbenzidine	10.932	212	3939	0.131	ug/ml#	94

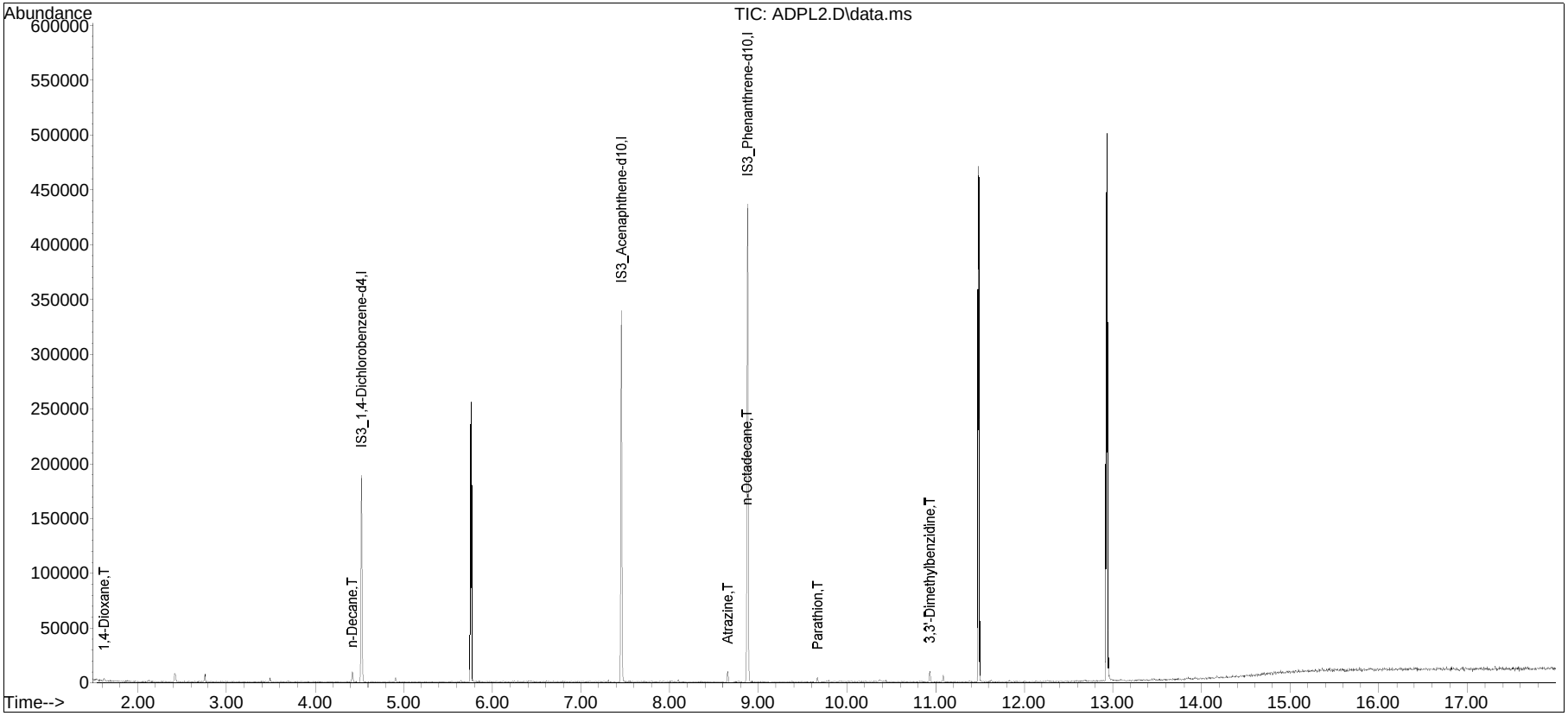
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\240618ical\
Data File : ADPL2.D
Acq On : 18 Jun 2024 11:41 pm
Operator : Dakota:cmm
Sample : IL9,32,,ADPL0.2 Lot# 10803
Misc : WG1938219,,
ALS Vial : 28 Sample Multiplier: 1

Quant Time: Jun 19 21:54:50 2024
Quant Method : I:\8270\Dakota\240618ical\FS240618RVT_14D_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Jun 19 21:54:56 2024
Response via : Initial Calibration

Sub List : ADPical_REV2 - ADP sublistcal\ADPL6.D•



Manual Integration Report

Data Path	: I:\8270\Dakota\240618ical\	QMethod	: FS240618RVT_14D_Dakota.m
Data File	: ADPL2.D	Operator	: Dakota:cmm
Date Inj'd	: 6/18/2024 11:41 pm	Instrument	: Dakota
Sample	: IL9,32,,ADPL0.2 Lot# 10803	Quant Date	: 6/19/2024 9:55 pm

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\240618ical\
Data File : ADPL1.D
Acq On : 19 Jun 2024 12:04 am
Operator : Dakota:cmm
Sample : IL10,32,,ADPL0.1 Lot# 10804
Misc : WG1938219,,
ALS Vial : 29 Sample Multiplier: 1

Quant Time: Jun 19 21:54:38 2024
Quant Method : I:\8270\Dakota\240618ical\FS240618RVT_14D_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Jun 19 21:54:56 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\240618ical\ADPL6.D
Sub List : ADPical_REV2 - ADP sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
32) IS3_1,4-Dichlorobenzen...	4.527	152	28979	4.000	ug/ml	0.00
Standard Area 1 = 27937			Recovery =	103.73%		
86) IS3_Acenaphthene-d10	7.458	164	66872	4.000	ug/ml	0.00
Standard Area 1 = 67365			Recovery =	99.27%		
100) IS3_Phenanthrene-d10	8.881	188	156257	4.000	ug/ml	0.00
Standard Area 1 = 163081			Recovery =	95.82%		
System Monitoring Compounds						
Target Compounds						Qvalue
33) 1,4-Dioxane	0.000		0	N.D.		
34) n-Decane	4.421	57	825	0.108	ug/ml#	52
87) Atrazine	8.660	200	837	0.111	ug/ml#	33
101) n-Octadecane	8.872	57	1386	0.111	ug/ml#	1
102) Parathion	0.000		0	N.D.		
103) 3,3'-Dimethylbenzidine	10.929	212	1798	0.063	ug/ml#	62

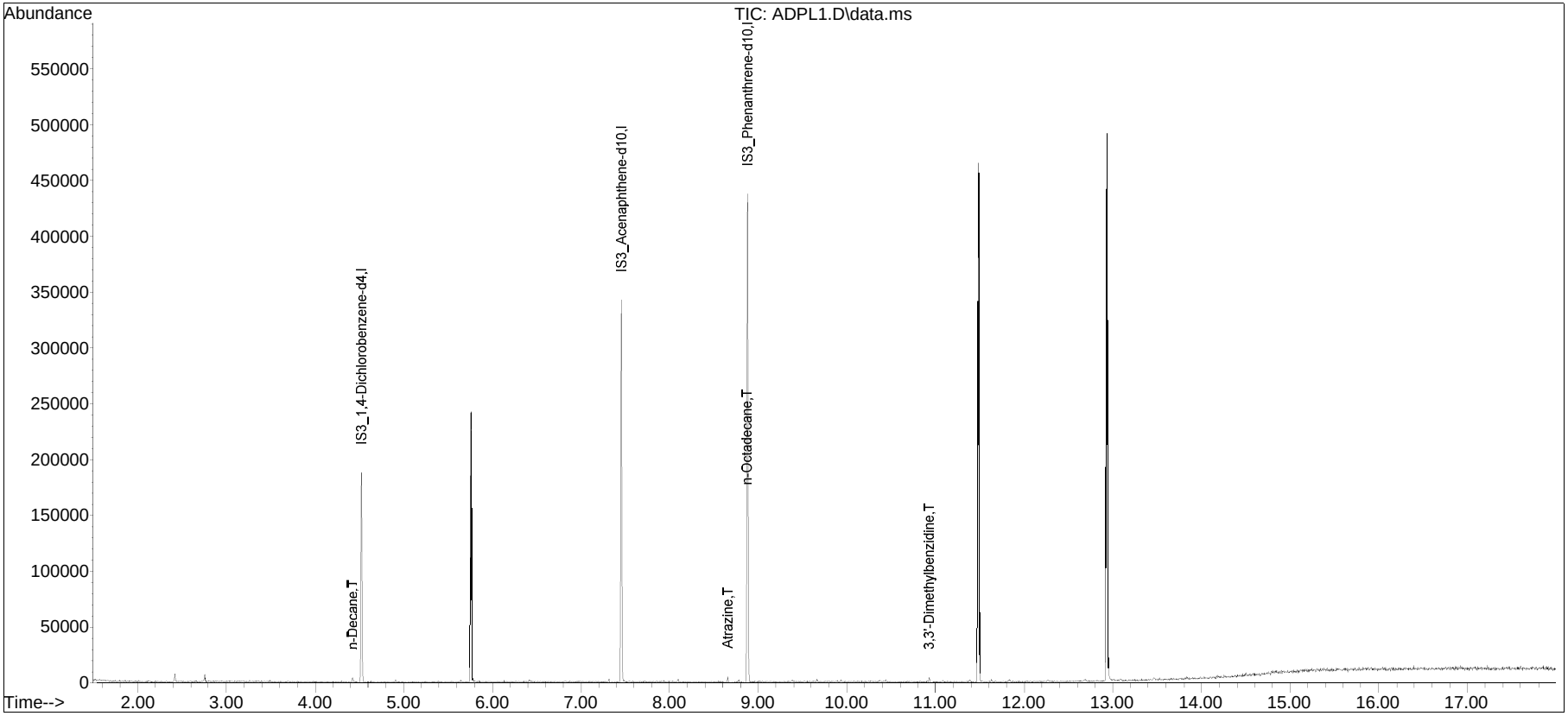
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\240618ical\
Data File : ADPL1.D
Acq On : 19 Jun 2024 12:04 am
Operator : Dakota:cmm
Sample : IL10,32,,ADPL0.1 Lot# 10804
Misc : WG1938219,,
ALS Vial : 29 Sample Multiplier: 1

Quant Time: Jun 19 21:54:38 2024
Quant Method : I:\8270\Dakota\240618ical\FS240618RVT_14D_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Jun 19 21:54:56 2024
Response via : Initial Calibration

Sub List : ADPical_REV2 - ADP sublistcal\ADPL6.D•



Manual Integration Report

Data Path	: I:\8270\Dakota\240618ical\	QMethod	: FS240618RVT_14D_Dakota.m
Data File	: ADPL1.D	Operator	: Dakota:cmm
Date Inj'd	: 6/19/2024 12:04 am	Instrument	: Dakota
Sample	: IL10,32,,ADPL0.1 Lot# 1080	Quant Date	: 6/19/2024 9:55 pm

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

Evaluate Continuing Calibration Report

Data Path : I:\8270\Dakota\240618ical\
Data File : ADPICV.D
Acq On : 19 Jun 2024 12:26 am
Operator : Dakota:cmm
Sample : CQICV3,32,,ADPICV Lot# 10807
Misc : WG1938219,,
ALS Vial : 30 Sample Multiplier: 1

Quant Time: Jun 23 15:28:58 2024
Quant Method : I:\8270\Dakota\240618ical\FS240618RVT_14D_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Jun 19 21:54:56 2024
Response via : Initial Calibration

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

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(min)
32	I	IS3_1,4-Dichlorobenzene-d4		1.000	1.000	0.0	91	0.00
33	T	1,4-Dioxane		0.450	0.425	5.6	95	0.00
34	T	n-Decane		1.059	0.974	8.0	97	0.00
86	I	IS3_Acenaphthene-d10		1.000	1.000	0.0	89	0.00
87	T	Atrazine		0.450	0.381	15.3	88	0.00
100	I	IS3_Phenanthrene-d10		1.000	1.000	0.0	90	0.00
101	T	n-Octadecane		0.319	0.294	7.8	94	0.00
102	T	Parathion	*	5.000	4.087	18.3	86	0.00
103	T	3,3'-Dimethylbenzidine		0.735	0.630	14.3	83	0.00

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\240618ical\
Data File : ADPICV.D
Acq On : 19 Jun 2024 12:26 am
Operator : Dakota:cmm
Sample : CQICV3,32,,ADPICV Lot# 10807
Misc : WG1938219,,
ALS Vial : 30 Sample Multiplier: 1

Quant Time: Jun 23 15:28:58 2024
Quant Method : I:\8270\Dakota\240618ical\FS240618RVT_14D_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Jun 19 21:54:56 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\240618ical\ADPL6.D
Sub List : ADPical_REV2 - ADP sublist

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
32) IS3_1,4-Dichlorobenzen...	4.526	152	25347	4.000 ug/ml	0.00
Standard Area 1 = 27937			Recovery = 90.73%		
86) IS3_Acenaphthene-d10	7.457	164	60087	4.000 ug/ml	0.00
Standard Area 1 = 67365			Recovery = 89.20%		
100) IS3_Phenanthrene-d10	8.881	188	146211	4.000 ug/ml	0.00
Standard Area 1 = 163081			Recovery = 89.66%		
System Monitoring Compounds					
Target Compounds					Qvalue
33) 1,4-Dioxane	1.608	88	13480	4.727 ug/ml#	39
34) n-Decane	4.421	57	30858	4.599 ug/ml#	29
87) Atrazine	8.663	200	28600	4.230 ug/ml	91
101) n-Octadecane	8.872	57	53752	4.605 ug/ml#	1
102) Parathion	9.670	109	14087	4.087 ug/ml	89
103) 3,3'-Dimethylbenzidine	10.935	212	115192	4.289 ug/ml	99

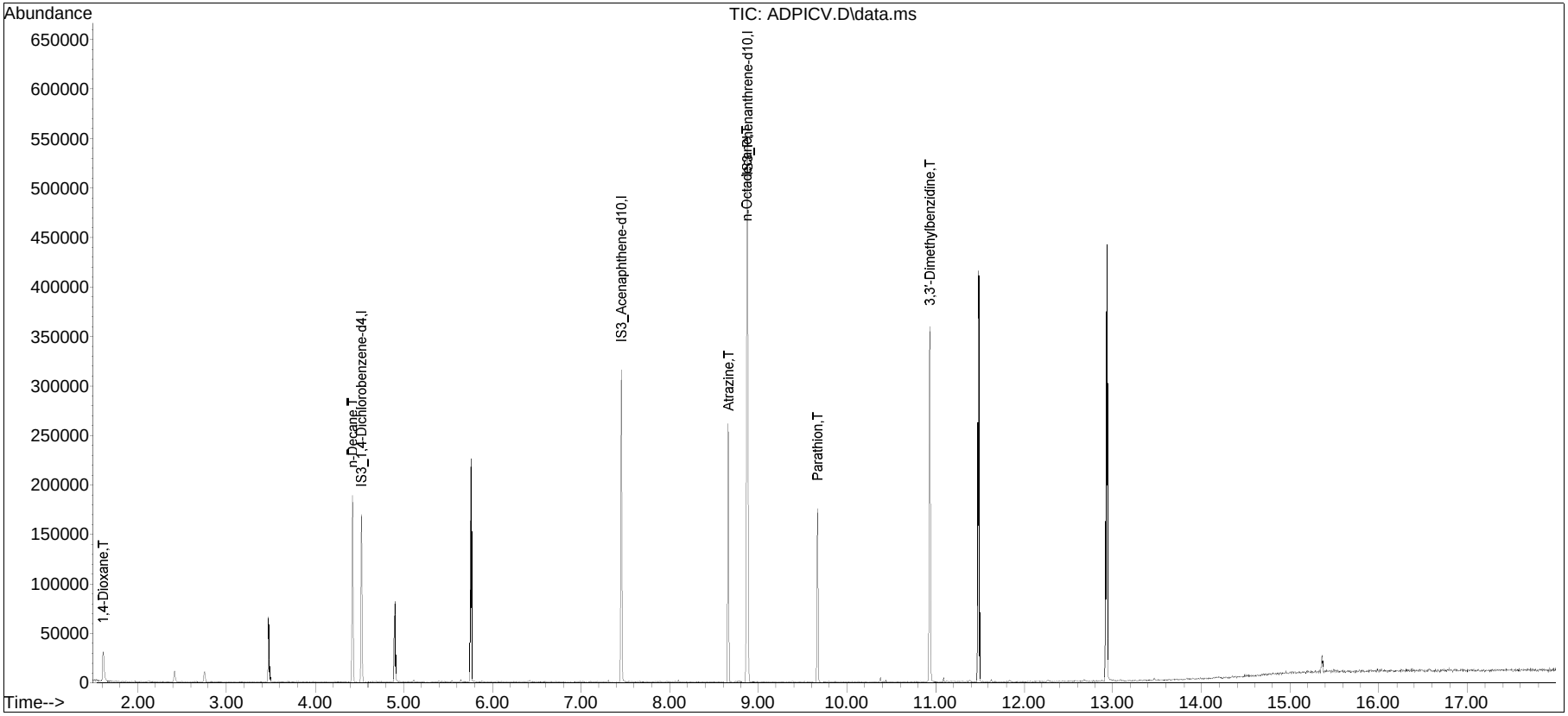
(#) = qualifier out of range (m) = manual integration (+) = signals summed

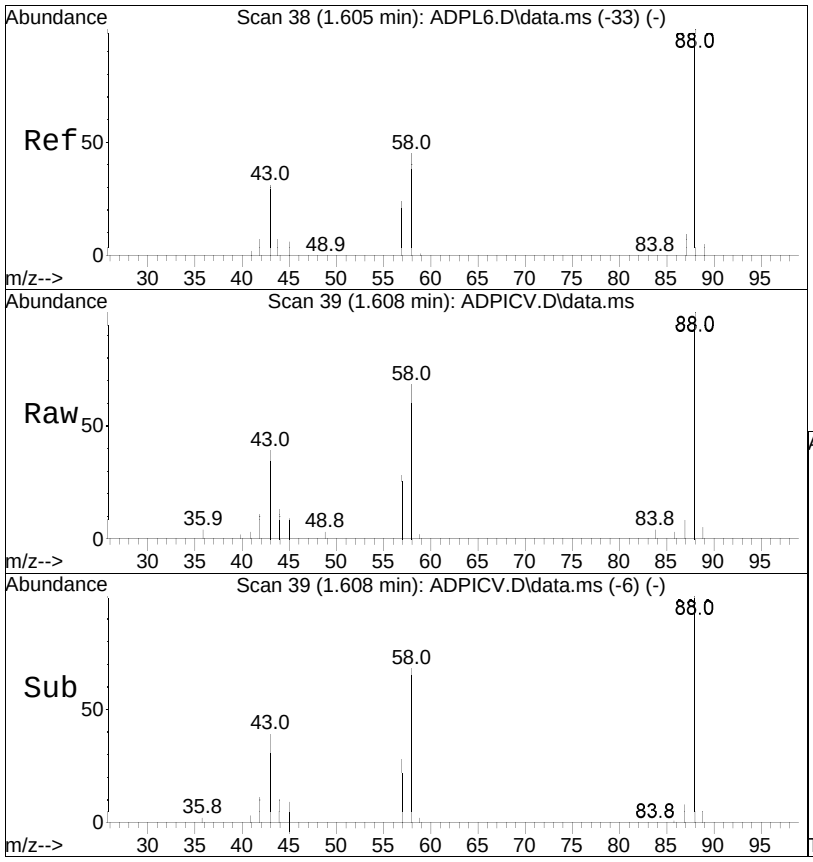
Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\240618ical\
Data File : ADPICV.D
Acq On : 19 Jun 2024 12:26 am
Operator : Dakota:cmm
Sample : CQICV3,32,,ADPICV Lot# 10807
Misc : WG1938219,,
ALS Vial : 30 Sample Multiplier: 1

Quant Time: Jun 23 15:28:58 2024
Quant Method : I:\8270\Dakota\240618ical\FS240618RVT_14D_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Jun 19 21:54:56 2024
Response via : Initial Calibration

Sub List : ADPical_REV2 - ADP sublistcal\ADPL6.D•

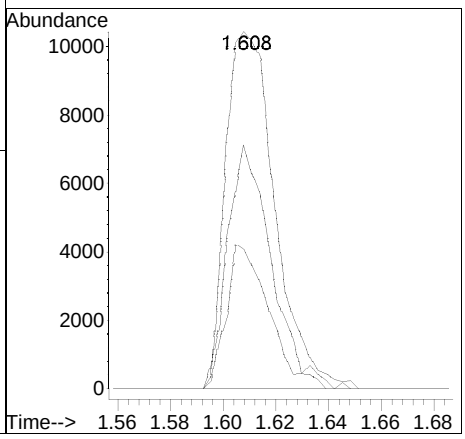


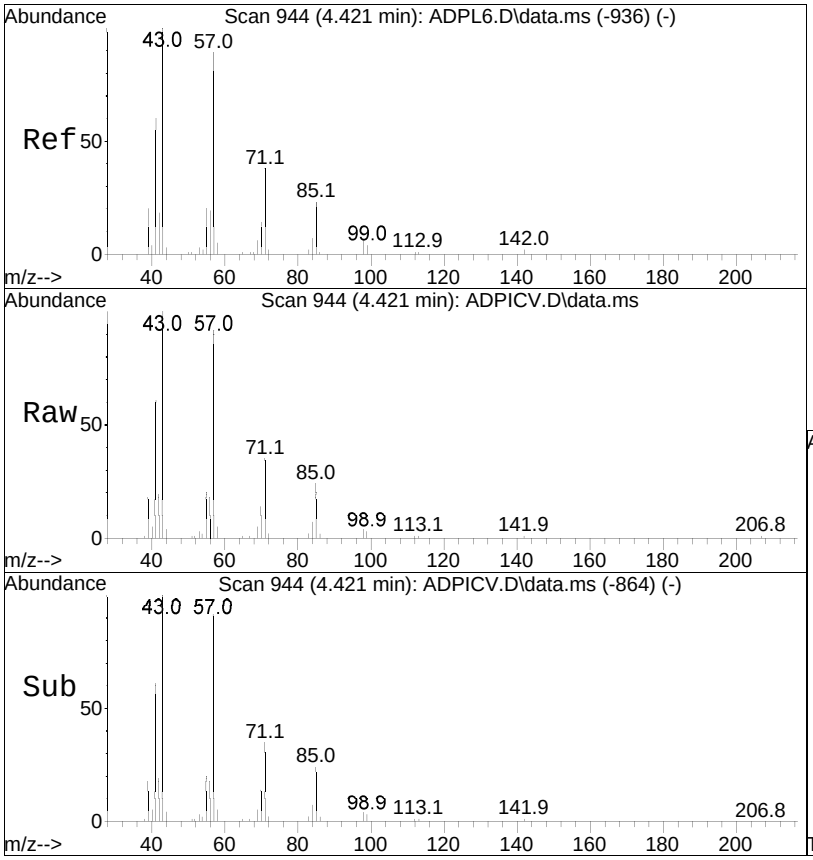


#33
1,4-Dioxane
Concen: 4.73 ug/ml
RT: 1.608 min Scan# 39
Delta R.T. 0.003 min
Lab File: ADPICV.D
Acq: 19 Jun 2024 12:26 am

Tgt Ion: 88 Resp: 13480

Ion	Ratio	Lower	Upper
88	100		
58	61.0	16.0	24.0#
43	35.0	16.0	24.0#

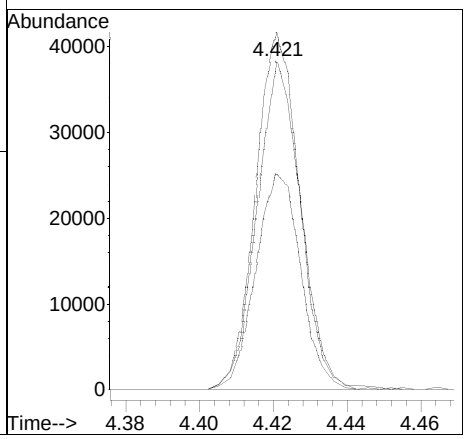


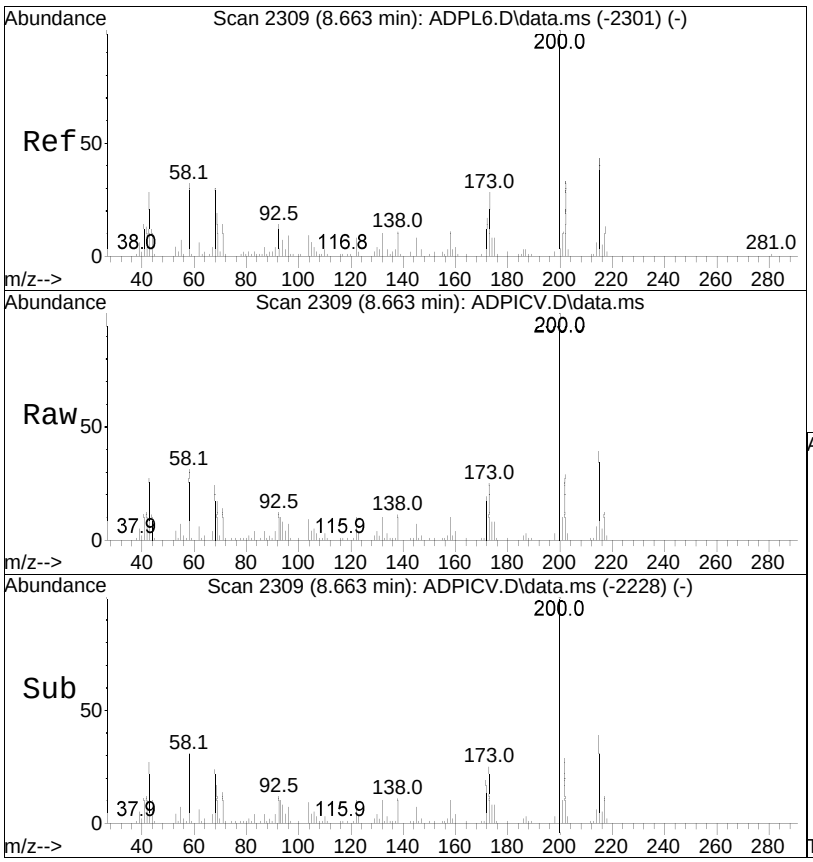


#34
n-Decane
Concen: 4.60 ug/ml
RT: 4.421 min Scan# 944
Delta R.T. -0.000 min
Lab File: ADPICV.D
Acq: 19 Jun 2024 12:26 am

Tgt Ion: 57 Resp: 30858

Ion	Ratio	Lower	Upper
57	100		
43	112.3	0.2	0.2#
41	68.9	0.2	0.2#

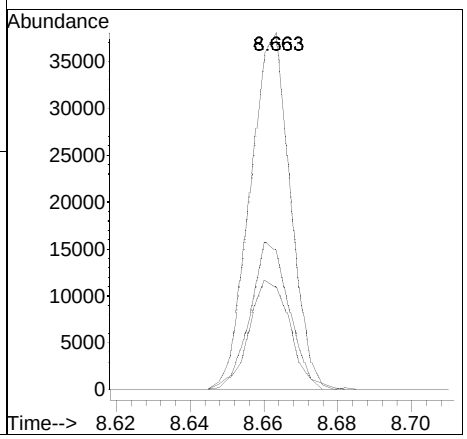


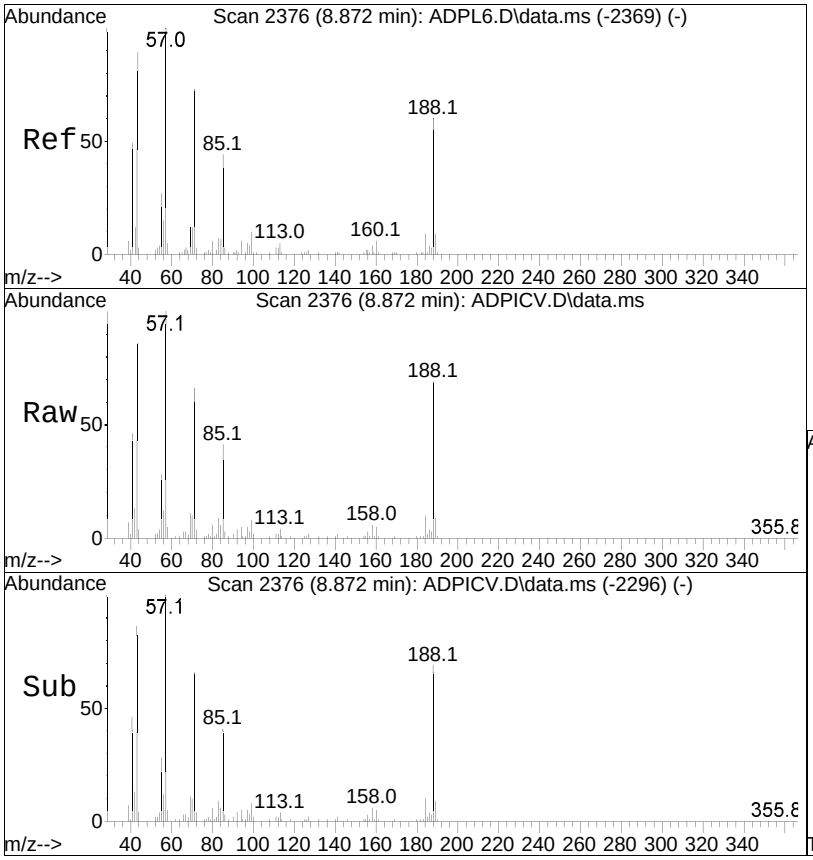


#87
Atrazine
Concen: 4.23 ug/ml
RT: 8.663 min Scan# 2309
Delta R.T. 0.000 min
Lab File: ADPICV.D
Acq: 19 Jun 2024 12:26 am

Tgt Ion:200 Resp: 28600

Ion	Ratio	Lower	Upper
200	100		
202	31.0	25.8	38.6
215	40.6	40.2	60.4

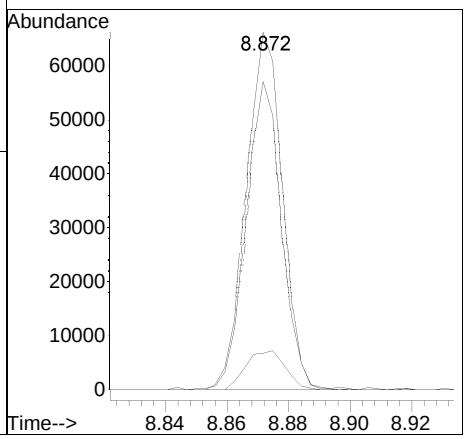


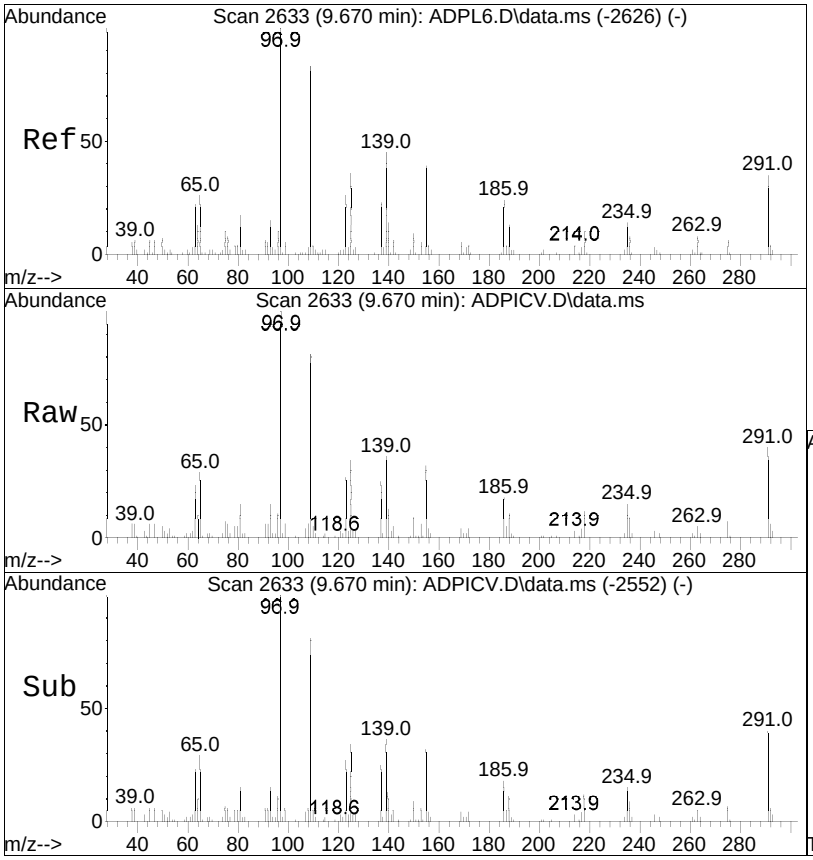


#101
n-Octadecane
Concen: 4.60 ug/ml
RT: 8.872 min Scan# 2376
Delta R.T. -0.000 min
Lab File: ADPICV.D
Acq: 19 Jun 2024 12:26 am

Tgt Ion: 57 Resp: 53752

Ion	Ratio	Lower	Upper
57	100		
43	84.3	9.0	13.6#
70	11.9	0.2	0.2#

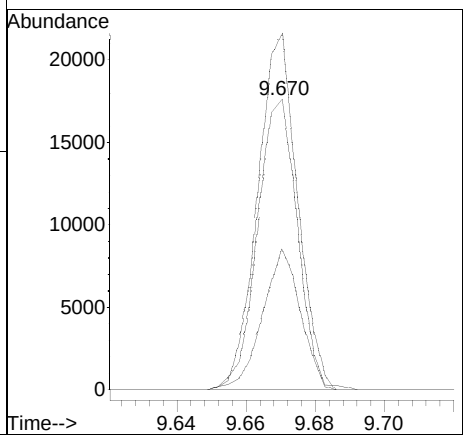


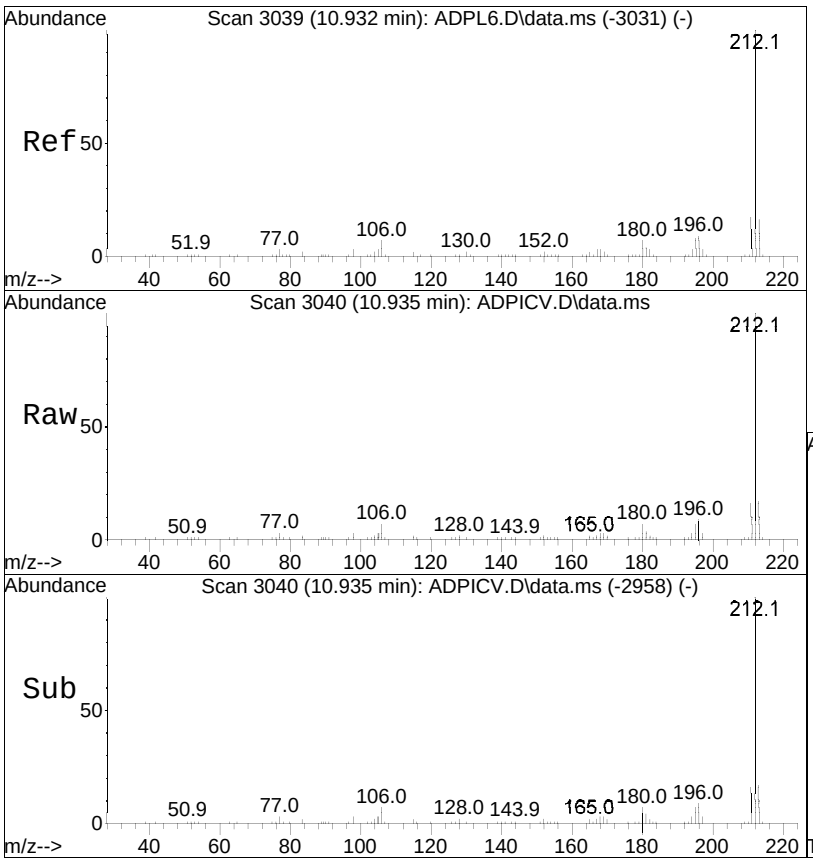


#102
Parathion
Concen: 4.09 ug/ml
RT: 9.670 min Scan# 2633
Delta R.T. 0.000 min
Lab File: ADPICV.D
Acq: 19 Jun 2024 12:26 am

Tgt Ion:109 Resp: 14087

Ion	Ratio	Lower	Upper
109	100		
97	122.4	87.4	131.2
291	46.3	34.2	51.2

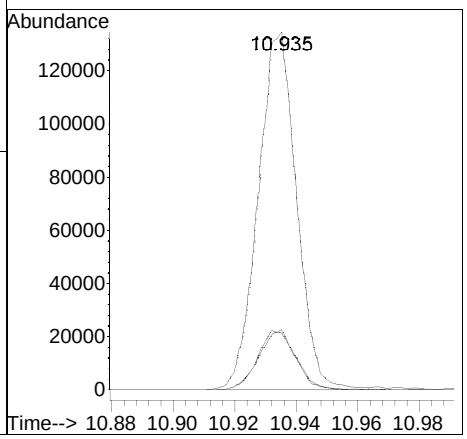




#103
3,3'-Dimethylbenzidine
Concen: 4.29 ug/ml
RT: 10.935 min Scan# 3040
Delta R.T. 0.003 min
Lab File: ADPICV.D
Acq: 19 Jun 2024 12:26 am

Tgt Ion:212 Resp: 115192

Ion	Ratio	Lower	Upper
212	100		
211	16.7	12.9	19.3
213	16.1	13.2	19.8



Manual Integration Report

Data Path	: I:\8270\Dakota\240618ical\	QMethod	: FS240618RVT_14D_Dakota.m
Data File	: ADPICV.D	Operator	: Dakota:cmm
Date Inj'd	: 6/19/2024 12:26 am	Instrument	: Dakota
Sample	: CQICV3,32,,ADPICV Lot# 108	Quant Date	: 6/19/2024 9:54 pm

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

Evaluate Relative Error Report Dakota

Method Path : I:\8270\Dakota\240618ical\
Method File : FS240618RVT_14D_Dakota.m
Title : Semivolatiles by GC/MS by modified 8270
Last Update : Wed Jun 19 22:04:59 2024

	COMPOUND	CalFit	Units	TrueMid	MidConc	%RE	TrueLow	LowConc	%RE
37	T Benzoic Acid	L	ug/ml	5.0	4.367	-12.7	1.00	1.252	25.2
66	T 2,4-Dinitrophenol	L	ug/ml	5.0	4.524	-9.5	0.50	0.591	18.2
102	T Parathion	Q	ug/ml	5.0	4.232	-15.4	0.50	0.562	12.4

Calibration Correlation Report

	COMPOUND	CalFit	CoefOfDet	QuadTerm	LinTerm	Constant
37	T Benzoic Acid	Linear	0.996160	0.000000	0.275479	-0.0525195
66	T 2,4-Dinitrophenol	Linear	0.998831	0.000000	0.228678	-0.017508
102	T Parathion	Quadratic	0.997994	0.002065	0.0962807	-0.00418977

Continuing Calibration

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Instrument ID	: DAKOTA	**Calibration Date**	: 06/24/24 14:00
Lab File ID	: ABN0624	**Init. Calib. Date(s)**	: 06/18/24 06/19/24
Sample No	: WG1938645-3	**Init. Calib. Times**	: 12:22 00:04
Channel	:		

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
IS1_1,4-Dichlorobenzene-d4	1	1	-	0	20	89	0
n-Nitrosodimethylamine	0.695	0.688	-	1	20	93	0
Pyridine	1.127	1.062	-	5.8	20	91	0
2-Fluorophenol	1.028	0.988	-	3.9	20	87	0
Aniline	1.706	1.716	-	-0.6	20	95	0
2-Chlorophenol	1.15	1.145	-	0.4	20	89	0
Phenol-d6	1.297	1.271	-	2	20	93	0
Phenol	1.512	1.519	-	-0.5	20	93	0
Bis(2-chloroethyl)ether	0.991	0.974	-	1.7	20	91	0
1,3-Dichlorobenzene	1.48	1.472	-	0.5	20	91	0
1,4-Dichlorobenzene	1.533	1.509	-	1.6	20	92	0
1,2-Dichlorobenzene	1.454	1.478	-	-1.7	20	95	0
Benzyl alcohol	0.973	0.988	-	-1.5	20	90	0
Bis(2-chloroisopropyl)ethe	1.478	1.438	-	2.7	20	92	0
2-Methylphenol	1.039	1.038	-	0.1	20	91	0
Hexachloroethane	0.544	0.538	-	1.1	20	92	0
n-Nitrosodi-n-propylamine	0.912	0.887	-	2.7	20	92	0
3-Methylphenol/4-Methylphe	1.095	1.169	-	-6.8	20	99	0
Nitrobenzene-d5	1.354	1.346	-	0.6	20	94	0
Nitrobenzene	1.298	1.336	-	-2.9	20	96	0
Isophorone	2.275	2.36	-	-3.7	20	93	0
2-Nitrophenol	0.644	0.659	-	-2.3	20	96	0
2,4-Dimethylphenol	1.097	1.138	-	-3.7	20	96	0
Bis(2-chloroethoxy)methane	1.398	1.392	-	0.4	20	92	0
2,4-Dichlorophenol	1.237	1.272	-	-2.8	20	92	0
1,2,4-Trichlorobenzene	1.544	1.538	-	0.4	20	93	0
IS1_Naphthalene-d8	1	1	-	0	20	87	0
Naphthalene	1.042	1.026	-	1.5	20	95	0
Benzoic Acid	5	4.162	-	16.8	20	82	0
4-Chloroaniline	0.127	0.127	-	0	20	92	0
Hexachlorobutadiene	0.25	0.242	-	3.2	20	92	0
p-Chloro-m-cresol	0.291	0.298	-	-2.4	20	94	0
2-Methylnaphthalene	0.749	0.74	-	1.2	20	93	0
1-Methylnaphthalene	0.245	0.243	-	0.8	20	95	0
Hexachlorocyclopentadiene	0.29	0.303	-	-4.5	20	99	0
2,4,6-Trichlorophenol	0.296	0.319	-	-7.8	20	102	0
2,4,5-Trichlorophenol	0.316	0.347	-	-9.8	20	100	0
2-Fluorobiphenyl	1.003	1.019	-	-1.6	20	95	0
2-Chloronaphthalene	0.83	0.85	-	-2.4	20	95	0
2-Nitroaniline	0.221	0.224	-	-1.4	20	94	0
1,4-Dinitrobenzene	0.117	0.115	-	1.7	20	91	0
1,3-Dinitrobenzene	0.127	0.138	-	-8.7	20	94	0
Dimethyl phthalate	1.032	1.052	-	-1.9	20	97	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Instrument ID	: DAKOTA	**Calibration Date**	: 06/24/24 14:00
Lab File ID	: ABN0624	**Init. Calib. Date(s)**	: 06/18/24 06/19/24
Sample No	: WG1938645-3	**Init. Calib. Times**	: 12:22 00:04
Channel	:		

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
Acenaphthylene	1.24	1.282	-	-3.4	20	94	0
2,6-Dinitrotoluene	0.204	0.209	-	-2.5	20	94	0
1,2-Dinitrobenzene	0.074	0.082	-	-10.8	20	92	0
IS1_Acenaphthene-d10	1	1	-	0	20	96	0
3-Nitroaniline	0.297	0.289	-	2.7	20	99	0
Acenaphthene	1.081	1.006	-	6.9	20	97	0
2,4-Dinitrophenol	5	4.569	-	8.6	20	98	0
Dibenzofuran	1.903	1.74	-	8.6	20	96	0
2,4-Dinitrotoluene	0.404	0.406	-	-0.5	20	98	0
4-Nitrophenol	0.249	0.238	-	4.4	20	97	0
2,3,5,6-Tetrachlorophenol	0.428	0.415	-	3	20	101	0
2,3,4,6-Tetrachlorophenol	0.401	0.396	-	1.2	20	97	0
Diethyl phthalate	1.543	1.387	-	10.1	20	94	0
Fluorene	1.448	1.357	-	6.3	20	98	0
4-Chlorophenyl phenyl ethe	0.738	0.696	-	5.7	20	98	0
4-Nitroaniline	0.292	0.295	-	-1	20	99	0
4,6-Dinitro-o-cresol	0.255	0.265	-	-3.9	20	99	0
NDPA/DPA	1.243	1.174	-	5.6	20	99	0
Azobenzene	1.252	1.17	-	6.5	20	97	0
2,4,6-Tribromophenol	0.261	0.255	-	2.3	20	96	0
4-Bromophenyl phenyl ether	0.491	0.447	-	9	20	99	0
Hexachlorobenzene	0.609	0.554	-	9	20	98	0
Pentachlorophenol	0.369	0.353	-	4.3	20	98	0
IS1_Phenanthrene-d10	1	1	-	0	20	95	0
Phenanthrene	1.081	1.017	-	5.9	20	98	0
Anthracene	1.043	1.021	-	2.1	20	100	0
Carbazole	0.988	0.963	-	2.5	20	98	0
Di-n-butylphthalate	1.134	1.08	-	4.8	20	94	0
Fluoranthene	1.317	1.267	-	3.8	20	99	0
Benzidine	0.734	0.763	-	-4	20	100	0
Pyrene	1.356	1.342	-	1	20	99	0
4-Terphenyl-d14	1.04	0.972	-	6.5	20	96	0
Butyl benzyl phthalate	0.51	0.489	-	4.1	20	92	0
IS1_Chrysene-d12	1	1	-	0	20	94	0
Benzo(a)anthracene	1.334	1.307	-	2	20	100	0
3,3'-Dichlorobenzidine	0.495	0.502	-	-1.4	20	97	0
Chrysene	1.266	1.238	-	2.2	20	100	0
Bis(2-ethylhexyl)phthalate	0.75	0.725	-	3.3	20	90	0
Di-n-octylphthalate	1.251	1.212	-	3.1	20	91	0
Benzo(b)fluoranthene	1.424	1.371	-	3.7	20	97	0
Benzo(k)fluoranthene	1.355	1.352	-	0.2	20	102	0
Benzo(a)pyrene	1.262	1.237	-	2	20	96	0
IS1_Perylene-d12	1	1	-	0	20	93	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Alpha Geoscience		**Lab Number**	: L2434679	
Project Name	: RANCO MINE		**Project Number**	: 12123	
Instrument ID	: DAKOTA		**Calibration Date**	: 06/24/24 14:00	
Lab File ID	: ABN0624		**Init. Calib. Date(s)**	: 06/18/24	06/19/24
Sample No	: WG1938645-3		**Init. Calib. Times**	: 12:22	00:04
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
Indeno(1,2,3-cd)pyrene	1.235	1.16	-	6.1	20	94	0
Dibenzo(a,h)anthracene	1.149	1.133	-	1.4	20	97	0
Benzo(ghi)perylene	1.129	1.076	-	4.7	20	96	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Alpha Geoscience	**Lab Number**	: L2434679		
Project Name	: RANCO MINE	**Project Number**	: 12123		
Instrument ID	: DAKOTA	**Calibration Date**	: 06/24/24 14:22		
Lab File ID	: AP90624	**Init. Calib. Date(s)**	: 06/18/24	06/19/24	
Sample No	: WG1938645-4	**Init. Calib. Times**	: 12:22	00:04	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
IS2_1,4-Dichlorobenzene-d4	1	1	-	0	20	87	0
Benzaldehyde	1.036	0.995	-	4	20	86	0
Acetophenone	1.772	1.706	-	3.7	20	87	0
m-Toluidine	1.704	1.706	-	-0.1	20	87	0
2-Chloroaniline	1.648	1.606	-	2.5	20	88	0
IS2_Naphthalene-d8	1	1	-	0	20	91	0
a-Terpineol	0.269	0.244	-	9.3	20	85	0
3-Chloroaniline	0.15	0.139	-	7.3	20	87	0
2,6-Dichlorophenol	0.375	0.366	-	2.4	20	89	0
1-chloro-2-nitrobenzene	0.155	0.143	-	7.7	20	89	0
Caprolactam	0.134	0.138	-	-3	20	93	0
1,2,4,5-Tetrachlorobenzene	0.499	0.469	-	6	20	89	0
Biphenyl	1.069	1.014	-	5.1	20	89	0
IS2_Acenaphthene-d10	1	1	-	0	20	94	0
Dichloran	0.236	0.213	-	9.7	20	90	0
Pentachloronitrobenzene	0.22	0.215	-	2.3	20	89	0
IS2_Phenanthrene-d10	1	1	-	0	20	96	0
Diphenamid	0.521	0.508	-	2.5	20	92	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Alpha Geoscience		**Lab Number**	: L2434679	
Project Name	: RANCO MINE		**Project Number**	: 12123	
Instrument ID	: DAKOTA		**Calibration Date**	: 06/24/24 14:45	
Lab File ID	: ADP0624		**Init. Calib. Date(s)**	: 06/18/24	06/19/24
Sample No	: WG1938645-5		**Init. Calib. Times**	: 12:22	00:04
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
IS3_1,4-Dichlorobenzene-d4	1	1	-	0	20	93	0
1,4-Dioxane	0.45	0.4	-	11.1	20	92	0
n-Decane	1.059	0.886	-	16.3	20	91	0
IS3_Acenaphthene-d10	1	1	-	0	20	94	0
Atrazine	0.45	0.419	-	6.9	20	102	0
IS3_Phenanthrene-d10	1	1	-	0	20	97	0
n-Octadecane	0.319	0.275	-	13.8	20	95	0
Parathion	5	4.34	-	13.2	20	100	0
3,3'-Dimethylbenzidine	0.735	0.716	-	2.6	20	102	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Alpha Geoscience	**Lab Number**	: L2434679		
Project Name	: RANCO MINE	**Project Number**	: 12123		
Instrument ID	: DAKOTA	**Calibration Date**	: 06/25/24 07:19		
Lab File ID	: ABN0625	**Init. Calib. Date(s)**	: 06/18/24	06/19/24	
Sample No	: WG1938967-3	**Init. Calib. Times**	: 12:22	00:04	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
IS1_1,4-Dichlorobenzene-d4	1	1	-	0	20	92	0
n-Nitrosodimethylamine	0.695	0.683	-	1.7	20	96	0
Pyridine	1.127	1.133	-	-0.5	20	101	0
2-Fluorophenol	1.028	0.997	-	3	20	92	0
Aniline	1.706	1.655	-	3	20	95	0
2-Chlorophenol	1.15	1.141	-	0.8	20	92	0
Phenol-d6	1.297	1.261	-	2.8	20	96	0
Phenol	1.512	1.494	-	1.2	20	95	0
Bis(2-chloroethyl)ether	0.991	0.964	-	2.7	20	94	0
1,3-Dichlorobenzene	1.48	1.479	-	0.1	20	95	0
1,4-Dichlorobenzene	1.533	1.501	-	2.1	20	96	0
1,2-Dichlorobenzene	1.454	1.437	-	1.2	20	96	0
Benzyl alcohol	0.973	0.991	-	-1.8	20	94	0
Bis(2-chloroisopropyl)ethe	1.478	1.387	-	6.2	20	92	0
2-Methylphenol	1.039	1.035	-	0.4	20	94	0
Hexachloroethane	0.544	0.53	-	2.6	20	94	0
n-Nitrosodi-n-propylamine	0.912	0.896	-	1.8	20	96	0
3-Methylphenol/4-Methylphe	1.095	1.089	-	0.5	20	96	0
Nitrobenzene-d5	1.354	1.316	-	2.8	20	96	0
Nitrobenzene	1.298	1.305	-	-0.5	20	98	0
Isophorone	2.275	2.316	-	-1.8	20	94	0
2-Nitrophenol	0.644	0.629	-	2.3	20	96	0
2,4-Dimethylphenol	1.097	1.094	-	0.3	20	96	0
Bis(2-chloroethoxy)methane	1.398	1.308	-	6.4	20	90	0
2,4-Dichlorophenol	1.237	1.252	-	-1.2	20	94	0
1,2,4-Trichlorobenzene	1.544	1.491	-	3.4	20	94	0
IS1_Naphthalene-d8	1	1	-	0	20	89	0
Naphthalene	1.042	0.989	-	5.1	20	94	0
Benzoic Acid	5	4.316	-	13.7	20	88	0
4-Chloroaniline	0.127	0.124	-	2.4	20	92	0
Hexachlorobutadiene	0.25	0.236	-	5.6	20	92	0
p-Chloro-m-cresol	0.291	0.288	-	1	20	93	0
2-Methylnaphthalene	0.749	0.709	-	5.3	20	92	0
1-Methylnaphthalene	0.245	0.237	-	3.3	20	96	0
Hexachlorocyclopentadiene	0.29	0.288	-	0.7	20	97	0
2,4,6-Trichlorophenol	0.296	0.309	-	-4.4	20	102	0
2,4,5-Trichlorophenol	0.316	0.331	-	-4.7	20	98	0
2-Fluorobiphenyl	1.003	0.961	-	4.2	20	93	0
2-Chloronaphthalene	0.83	0.8	-	3.6	20	93	0
2-Nitroaniline	0.221	0.226	-	-2.3	20	98	0
1,4-Dinitrobenzene	0.117	0.119	-	-1.7	20	97	0
1,3-Dinitrobenzene	0.127	0.142	-	-11.8	20	100	0
Dimethyl phthalate	1.032	1.024	-	0.8	20	97	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Alpha Geoscience	**Lab Number**	: L2434679		
Project Name	: RANCO MINE	**Project Number**	: 12123		
Instrument ID	: DAKOTA	**Calibration Date**	: 06/25/24 07:19		
Lab File ID	: ABN0625	**Init. Calib. Date(s)**	: 06/18/24	06/19/24	
Sample No	: WG1938967-3	**Init. Calib. Times**	: 12:22	00:04	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
Acenaphthylene	1.24	1.235	-	0.4	20	94	0
2,6-Dinitrotoluene	0.204	0.213	-	-4.4	20	99	0
1,2-Dinitrobenzene	0.074	0.08	-	-8.1	20	92	0
IS1_Acenaphthene-d10	1	1	-	0	20	93	0
3-Nitroaniline	0.297	0.303	-	-2	20	101	0
Acenaphthene	1.081	1.026	-	5.1	20	96	0
2,4-Dinitrophenol	5	4.701	-	6	20	97	0
Dibenzofuran	1.903	1.788	-	6	20	96	0
2,4-Dinitrotoluene	0.404	0.424	-	-5	20	99	0
4-Nitrophenol	0.249	0.254	-	-2	20	100	0
2,3,5,6-Tetrachlorophenol	0.428	0.417	-	2.6	20	98	0
2,3,4,6-Tetrachlorophenol	0.401	0.417	-	-4	20	99	0
Diethyl phthalate	1.543	1.43	-	7.3	20	94	0
Fluorene	1.448	1.374	-	5.1	20	96	0
4-Chlorophenyl phenyl ethe	0.738	0.716	-	3	20	97	0
4-Nitroaniline	0.292	0.314	-	-7.5	20	103	0
4,6-Dinitro-o-cresol	0.255	0.272	-	-6.7	20	98	0
NDPA/DPA	1.243	1.177	-	5.3	20	96	0
Azobenzene	1.252	1.212	-	3.2	20	97	0
2,4,6-Tribromophenol	0.261	0.268	-	-2.7	20	98	0
4-Bromophenyl phenyl ether	0.491	0.456	-	7.1	20	97	0
Hexachlorobenzene	0.609	0.565	-	7.2	20	97	0
Pentachlorophenol	0.369	0.365	-	1.1	20	98	0
IS1_Phenanthrene-d10	1	1	-	0	20	95	0
Phenanthrene	1.081	1.01	-	6.6	20	97	0
Anthracene	1.043	1.024	-	1.8	20	100	0
Carbazole	0.988	0.985	-	0.3	20	101	0
Di-n-butylphthalate	1.134	1.066	-	6	20	93	0
Fluoranthene	1.317	1.283	-	2.6	20	101	0
Benzidine	0.734	0.812	-	-10.6	20	106	0
Pyrene	1.356	1.37	-	-1	20	102	0
4-Terphenyl-d14	1.04	1.001	-	3.8	20	100	0
Butyl benzyl phthalate	0.51	0.509	-	0.2	20	96	0
IS1_Chrysene-d12	1	1	-	0	20	98	0
Benzo(a)anthracene	1.334	1.291	-	3.2	20	103	0
3,3'-Dichlorobenzidine	0.495	0.499	-	-0.8	20	101	0
Chrysene	1.266	1.235	-	2.4	20	104	0
Bis(2-ethylhexyl)phthalate	0.75	0.736	-	1.9	20	96	0
Di-n-octylphthalate	1.251	1.234	-	1.4	20	96	0
Benzo(b)fluoranthene	1.424	1.395	-	2	20	103	0
Benzo(k)fluoranthene	1.355	1.34	-	1.1	20	105	0
Benzo(a)pyrene	1.262	1.264	-	-0.2	20	103	0
IS1_Perylene-d12	1	1	-	0	20	99	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Alpha Geoscience		**Lab Number**	: L2434679	
Project Name	: RANCO MINE		**Project Number**	: 12123	
Instrument ID	: DAKOTA		**Calibration Date**	: 06/25/24 07:19	
Lab File ID	: ABN0625		**Init. Calib. Date(s)**	: 06/18/24	06/19/24
Sample No	: WG1938967-3		**Init. Calib. Times**	: 12:22	00:04
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
Indeno(1,2,3-cd)pyrene	1.235	1.137	-	7.9	20	99	0
Dibenzo(a,h)anthracene	1.149	1.106	-	3.7	20	101	0
Benzo(ghi)perylene	1.129	1.062	-	5.9	20	101	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Alpha Geoscience	**Lab Number**	: L2434679		
Project Name	: RANCO MINE	**Project Number**	: 12123		
Instrument ID	: DAKOTA	**Calibration Date**	: 06/25/24 07:42		
Lab File ID	: AP90625	**Init. Calib. Date(s)**	: 06/18/24	06/19/24	
Sample No	: WG1938967-4	**Init. Calib. Times**	: 12:22	00:04	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
IS2_1,4-Dichlorobenzene-d4	1	1	-	0	20	89	0
Benzaldehyde	1.036	1.036	-	0	20	92	0
Acetophenone	1.772	1.792	-	-1.1	20	93	0
m-Toluidine	1.704	1.779	-	-4.4	20	92	0
2-Chloroaniline	1.648	1.663	-	-0.9	20	93	0
IS2_Naphthalene-d8	1	1	-	0	20	92	0
a-Terpineol	0.269	0.254	-	5.6	20	90	0
3-Chloroaniline	0.15	0.144	-	4	20	91	0
2,6-Dichlorophenol	0.375	0.373	-	0.5	20	92	0
1-chloro-2-nitrobenzene	0.155	0.145	-	6.5	20	91	0
Caprolactam	0.134	0.144	-	-7.5	20	98	0
1,2,4,5-Tetrachlorobenzene	0.499	0.476	-	4.6	20	91	0
Biphenyl	1.069	1.033	-	3.4	20	92	0
IS2_Acenaphthene-d10	1	1	-	0	20	94	0
Dichloran	0.236	0.22	-	6.8	20	94	0
Pentachloronitrobenzene	0.22	0.219	-	0.5	20	91	0
IS2_Phenanthrene-d10	1	1	-	0	20	95	0
Diphenamid	0.521	0.529	-	-1.5	20	95	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Alpha Geoscience		**Lab Number**	: L2434679	
Project Name	: RANCO MINE		**Project Number**	: 12123	
Instrument ID	: DAKOTA		**Calibration Date**	: 06/25/24 08:05	
Lab File ID	: ADP0625		**Init. Calib. Date(s)**	: 06/18/24	06/19/24
Sample No	: WG1938967-5		**Init. Calib. Times**	: 12:22	00:04
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
IS3_1,4-Dichlorobenzene-d4	1	1	-	0	20	104	0
1,4-Dioxane	0.45	0.426	-	5.3	20	110	0
n-Decane	1.059	0.904	-	14.6	20	103	0
IS3_Acenaphthene-d10	1	1	-	0	20	103	0
Atrazine	0.45	0.412	-	8.4	20	110	0
IS3_Phenanthrene-d10	1	1	-	0	20	100	0
n-Octadecane	0.319	0.265	-	16.9	20	94	0
Parathion	5	4.332	-	13.4	20	102	0
3,3'-Dimethylbenzidine	0.735	0.76	-	-3.4	20	112	0

*** Value outside of QC limits.**

Evaluate Continuing Calibration Report

Data Path : I:\8270\Dakota\240624RVT\
Data File : ABN0624.D
Acq On : 24 Jun 2024 2:00 pm
Operator : Dakota:jg
Sample : WG1938645-3,32,,ABN 10777 HNY0619A
Misc : WG1938645,,ical21225
ALS Vial : 96 Sample Multiplier: 1

Quant Time: Jun 25 20:21:09 2024
Quant Method : I:\8270\Dakota\240624RVT\FS240618RVT_14D_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Jun 25 20:11:49 2024
Response via : Initial Calibration

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

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	IS1_1,4-Dichlorobenzene-d4		1.000	1.000	0.0	89	0.00
2	t	n-Nitrosodimethylamine		0.695	0.688	1.0	93	0.00
3	t	Pyridine		1.127	1.062	5.8	91	0.00
4	S	2-Fluorophenol		1.028	0.988	3.9	87	0.00
5	T	Aniline		1.706	1.716	-0.6	95	0.00
6	t	2-Chlorophenol		1.150	1.145	0.4	89	0.00
7	S	Phenol-d6		1.297	1.271	2.0	93	0.00
8	T	Phenol		1.512	1.519	-0.5	93	0.00
9	T	Bis(2-chloroethyl)ether		0.991	0.974	1.7	91	0.00
10	T	1,3-Dichlorobenzene		1.480	1.472	0.5	91	0.00
11	T	1,4-Dichlorobenzene		1.533	1.509	1.6	92	0.00
12	T	1,2-Dichlorobenzene		1.454	1.478	-1.7	95	0.00
13	t	Benzyl alcohol		0.973	0.988	-1.5	90	0.00
14	T	Bis(2-chloroisopropyl)ether		1.478	1.438	2.7	92	0.00
15	T	2-Methylphenol		1.039	1.038	0.1	91	0.00
16	T	Hexachloroethane		0.544	0.538	1.1	92	0.00
17	T	n-Nitrosodi-n-propylamine		0.912	0.887	2.7	92	0.00
18	T	3-Methylphenol/4-Methylphen		1.095	1.169	-6.8	99	0.00
19	S	Nitrobenzene-d5		1.354	1.346	0.6	94	0.00
20	T	Nitrobenzene		1.298	1.336	-2.9	96	0.00
21	T	Isophorone		2.275	2.360	-3.7	93	0.00
22	T	2-Nitrophenol		0.644	0.659	-2.3	96	0.00
23	T	2,4-Dimethylphenol		1.097	1.138	-3.7	96	0.00
24	T	Bis(2-chloroethoxy)methane		1.398	1.392	0.4	92	0.00
25	T	2,4-Dichlorophenol		1.237	1.272	-2.8	92	0.00
26	T	1,2,4-Trichlorobenzene		1.544	1.538	0.4	93	0.00
35	I	IS1_Naphthalene-d8		1.000	1.000	0.0	87	0.00
36	T	Naphthalene		1.042	1.026	1.5	95	0.00
37	T	Benzoic Acid	*	5.000	4.162	16.8	82	0.00
38	T	4-Chloroaniline		0.127	0.127	0.0	92	0.00
39	T	Hexachlorobutadiene		0.250	0.242	3.2	92	0.00
40	T	p-Chloro-m-cresol		0.291	0.298	-2.4	94	0.00
41	T	2-Methylnaphthalene		0.749	0.740	1.2	93	0.00
42	T	1-Methylnaphthalene		0.245	0.243	0.8	95	0.00
43	T	Hexachlorocyclopentadiene		0.290	0.303	-4.5	99	0.00
44	T	2,4,6-Trichlorophenol		0.296	0.319	-7.8	102	0.00
45	T	2,4,5-Trichlorophenol		0.316	0.347	-9.8	100	0.00
46	S	2-Fluorobiphenyl		1.003	1.019	-1.6	95	0.00

Evaluate Continuing Calibration Report

Data Path : I:\8270\Dakota\240624RVT\
Data File : ABN0624.D
Acq On : 24 Jun 2024 2:00 pm
Operator : Dakota:jg
Sample : WG1938645-3,32,,ABN 10777 HNY0619A
Misc : WG1938645,,ical21225
ALS Vial : 96 Sample Multiplier: 1

Quant Time: Jun 25 20:21:09 2024
Quant Method : I:\8270\Dakota\240624RVT\FS240618RVT_14D_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Jun 25 20:11:49 2024
Response via : Initial Calibration

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

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(min)
47	T	2-Chloronaphthalene		0.830	0.850	-2.4	95	0.00
48	T	2-Nitroaniline		0.221	0.224	-1.4	94	0.00
49	T	1,4-Dinitrobenzene		0.117	0.115	1.7	91	0.00
50	T	1,3-Dinitrobenzene		0.127	0.138	-8.7	94	0.00
51	T	Dimethyl phthalate		1.032	1.052	-1.9	97	0.00
52	T	Acenaphthylene		1.240	1.282	-3.4	94	0.00
53	T	2,6-Dinitrotoluene		0.204	0.209	-2.5	94	0.00
54	T	1,2-Dinitrobenzene		0.074	0.082	-10.8	92	0.00
63	I	IS1_Acenaphthene-d10		1.000	1.000	0.0	96	0.00
64	T	3-Nitroaniline		0.297	0.289	2.7	99	0.00
65	T	Acenaphthene		1.081	1.006	6.9	97	0.00
66	T	2,4-Dinitrophenol	*	5.000	4.569	8.6	98	0.00
67	T	Dibenzofuran		1.903	1.740	8.6	96	0.00
68	T	2,4-Dinitrotoluene		0.404	0.406	-0.5	98	0.00
69	T	4-Nitrophenol		0.249	0.238	4.4	97	0.00
70	T	2,3,5,6-Tetrachlorophenol		0.428	0.415	3.0	101	0.00
71	T	2,3,4,6-Tetrachlorophenol		0.401	0.396	1.2	97	0.00
72	T	Diethyl phthalate		1.543	1.387	10.1	94	0.00
73	T	Fluorene		1.448	1.357	6.3	98	0.00
74	T	4-Chlorophenyl phenyl ether		0.738	0.696	5.7	98	0.00
75	T	4-Nitroaniline		0.292	0.295	-1.0	99	0.00
76	T	4,6-Dinitro-o-cresol		0.255	0.265	-3.9	99	0.00
77	T	NDPA/DPA		1.243	1.174	5.6	99	0.00
78	T	Azobenzene		1.252	1.170	6.5	97	0.00
79	S	2,4,6-Tribromophenol		0.261	0.255	2.3	96	0.00
80	T	4-Bromophenyl phenyl ether		0.491	0.447	9.0	99	0.00
81	T	Hexachlorobenzene		0.609	0.554	9.0	98	0.00
82	T	Pentachlorophenol		0.369	0.353	4.3	98	0.00
88	I	IS1_Phenanthrene-d10		1.000	1.000	0.0	95	0.00
89	T	Phenanthrene		1.081	1.017	5.9	98	0.00
90	T	Anthracene		1.043	1.021	2.1	100	0.00
91	T	Carbazole		0.988	0.963	2.5	98	0.00
92	T	Di-n-butylphthalate		1.134	1.080	4.8	94	0.00
93	T	Fluoranthene		1.317	1.267	3.8	99	0.00
94	T	Benzidine		0.734	0.763	-4.0	100	0.00
95	T	Pyrene		1.356	1.342	1.0	99	0.00
96	S	4-Terphenyl-d14		1.040	0.972	6.5	96	0.00

Evaluate Continuing Calibration Report

Data Path : I:\8270\Dakota\240624RVT\
Data File : ABN0624.D
Acq On : 24 Jun 2024 2:00 pm
Operator : Dakota:jg
Sample : WG1938645-3,32,,ABN 10777 HNY0619A
Misc : WG1938645,,ical21225
ALS Vial : 96 Sample Multiplier: 1

Quant Time: Jun 25 20:21:09 2024
Quant Method : I:\8270\Dakota\240624RVT\FS240618RVT_14D_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Jun 25 20:11:49 2024
Response via : Initial Calibration

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

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
97	T	Butyl benzyl phthalate	0.510	0.489	4.1	92	0.00
104	I	IS1_Chrysene-d12	1.000	1.000	0.0	94	0.00
105	T	Benzo(a)anthracene	1.334	1.307	2.0	100	0.00
106	T	3,3'-Dichlorobenzidine	0.495	0.502	-1.4	97	0.00
107	T	Chrysene	1.266	1.238	2.2	100	0.00
108	T	Bis(2-ethylhexyl)phthalate	0.750	0.725	3.3	90	0.00
109	T	Di-n-octylphthalate	1.251	1.212	3.1	91	0.00
110	T	Benzo(b)fluoranthene	1.424	1.371	3.7	97	0.00
111	T	Benzo(k)fluoranthene	1.355	1.352	0.2	102	0.00
112	T	Benzo(a)pyrene	1.262	1.237	2.0	96	0.00
113	I	IS1_Perylene-d12	1.000	1.000	0.0	93	0.00
114	T	Indeno(1,2,3-cd)pyrene	1.235	1.160	6.1	94	0.00
115	T	Dibenzo(a,h)anthracene	1.149	1.133	1.4	97	0.00
116	T	Benzo(ghi)perylene	1.129	1.076	4.7	96	0.00

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\240624RVT\
Data File : ABN0624.D
Acq On : 24 Jun 2024 2:00 pm
Operator : Dakota:jg
Sample : WG1938645-3,32,,ABN 10777 HNY0619A
Misc : WG1938645,,ical21225
ALS Vial : 96 Sample Multiplier: 1

Quant Time: Jun 25 20:21:09 2024
Quant Method : I:\8270\Dakota\240624RVT\FS240618RVT_14D_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Jun 25 20:11:49 2024
Response via : Initial Calibration

Sub List : ABNical - ABN ical sublist

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
	Internal Standards							
1)	IS1_1,4-Dichlorobenzen...	4.505	152	25255	4.000	ug/ml		0.00
35)	IS1_Naphthalene-d8	5.739	136	92102	4.000	ug/ml		0.00
63)	IS1_Acenaphthene-d10	7.436	164	69151	4.000	ug/ml		0.00
88)	IS1_Phenanthrene-d10	8.859	188	156078	4.000	ug/ml		0.00
104)	IS1_Chrysene-d12	11.458	240	161664	4.000	ug/ml	#	0.00
113)	IS1_Perylene-d12	12.903	264	190313	4.000	ug/ml		0.00
	System Monitoring Compounds							
4)	2-Fluorophenol	3.230	112	31177	4.804	ug/ml		0.00
	Spiked Amount 2.000	Range 15 - 110		Recovery = 240.20%#				
7)	Phenol-d6	4.191	99	40131	4.900	ug/ml		0.00
	Spiked Amount 2.000	Range 15 - 110		Recovery = 245.00%#				
19)	Nitrobenzene-d5	5.049	82	42495	4.970	ug/ml		0.00
	Spiked Amount 1.000	Range 30 - 130		Recovery = 497.00%#				
46)	2-Fluorobiphenyl	6.808	172	117283	5.080	ug/ml		0.00
	Spiked Amount 1.000	Range 30 - 130		Recovery = 508.00%#				
79)	2,4,6-Tribromophenol	8.197	330	22031	4.875	ug/ml		0.00
	Spiked Amount 2.000	Range 15 - 110		Recovery = 243.75%#				
96)	4-Terphenyl-d14	10.429	244	189595	4.672	ug/ml		0.00
	Spiked Amount 1.000	Range 30 - 130		Recovery = 467.20%#				
	Target Compounds							Qvalue
2)	n-Nitrosodimethylamine	1.816	74	21706	4.947	ug/ml	#	78
3)	Pyridine	1.850	79	33524	4.713	ug/ml	#	47
5)	Aniline	4.188	93	54167	5.029	ug/ml		95
6)	2-Chlorophenol	4.300	128	36153	4.978	ug/ml		90
8)	Phenol	4.206	94	47948	5.024	ug/ml	#	91
9)	Bis(2-chloroethyl)ether	4.272	93	30739	4.912	ug/ml		95
10)	1,3-Dichlorobenzene	4.449	146	46459	4.971	ug/ml		93
11)	1,4-Dichlorobenzene	4.520	146	47633	4.923	ug/ml		95
12)	1,2-Dichlorobenzene	4.666	146	46652	5.081	ug/ml		95
13)	Benzyl alcohol	4.660	79	31198	5.079	ug/ml		95
14)	Bis(2-chloroisopropyl)...	4.803	45	45398	4.865	ug/ml	#	42
15)	2-Methylphenol	4.794	108	32771	4.997	ug/ml		98
16)	Hexachloroethane	4.996	117	16979	4.941	ug/ml	#	44
17)	n-Nitrosodi-n-propylamine	4.931	70	28003	4.863	ug/ml	#	88
18)	3-Methylphenol/4-Methy...	4.949	108	36899	5.335	ug/ml		99
20)	Nitrobenzene	5.064	77	42173	5.146	ug/ml		93
21)	Isophorone	5.307	82	74498	5.186	ug/ml	#	93
22)	2-Nitrophenol	5.381	139	20789	5.114	ug/ml		89

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\240624RVT\
Data File : ABN0624.D
Acq On : 24 Jun 2024 2:00 pm
Operator : Dakota:jg
Sample : WG1938645-3,32,,ABN 10777 HNY0619A
Misc : WG1938645,,ical21225
ALS Vial : 96 Sample Multiplier: 1

Quant Time: Jun 25 20:21:09 2024
Quant Method : I:\8270\Dakota\240624RVT\FS240618RVT_14D_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Jun 25 20:11:49 2024
Response via : Initial Calibration

Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) 2,4-Dimethylphenol	5.462	107	35924	5.188	ug/ml	97
24) Bis(2-chloroethoxy)met...	5.546	93	43942	4.977	ug/ml#	96
25) 2,4-Dichlorophenol	5.621	162	40161	5.141	ug/ml#	91
26) 1,2,4-Trichlorobenzene	5.695	180	48548	4.981	ug/ml#	96
36) Naphthalene	5.757	128	118126	4.925	ug/ml	98
37) Benzoic Acid	5.537	105	21563	4.162	ug/ml	88
38) 4-Chloroaniline	5.832	65	14600	4.995	ug/ml	78
39) Hexachlorobutadiene	5.913	225	27912	4.843	ug/ml	99
40) p-Chloro-m-cresol	6.332	107	34330	5.126	ug/ml	93
41) 2-Methylnaphthalene	6.438	142	85150	4.937	ug/ml	96
42) 1-Methylnaphthalene	6.528	115	27967	4.948	ug/ml	96
43) Hexachlorocyclopentadiene	6.609	237	34913	5.227	ug/ml	97
44) 2,4,6-Trichlorophenol	6.724	196	36781	5.396	ug/ml	97
45) 2,4,5-Trichlorophenol	6.752	196	39940	5.482	ug/ml	99
47) 2-Chloronaphthalene	6.898	162	97895	5.119	ug/ml#	91
48) 2-Nitroaniline	7.010	138	25832	5.069	ug/ml	87
49) 1,4-Dinitrobenzene	7.144	168	13229	4.891	ug/ml	93
50) 1,3-Dinitrobenzene	7.218	168	15851	5.434	ug/ml#	1
51) Dimethyl phthalate	7.215	163	121068	5.093	ug/ml#	97
52) Acenaphthylene	7.293	152	147639	5.172	ug/ml	99
53) 2,6-Dinitrotoluene	7.255	165	24030	5.120	ug/ml#	80
54) 1,2-Dinitrobenzene	7.296	168	9401	5.505	ug/ml#	1
64) 3-Nitroaniline	7.408	138	25023	4.876	ug/ml#	90
65) Acenaphthene	7.467	154	86985	4.655	ug/ml	90
66) 2,4-Dinitrophenol	7.510	184	16853	4.569	ug/ml#	81
67) Dibenzofuran	7.635	168	150385	4.571	ug/ml	89
68) 2,4-Dinitrotoluene	7.641	165	35119	5.026	ug/ml	92
69) 4-Nitrophenol	7.600	65	20584	4.789	ug/ml#	83
70) 2,3,5,6-Tetrachlorophenol	7.725	232	35866	4.852	ug/ml	98
71) 2,3,4,6-Tetrachlorophenol	7.768	232	34207	4.937	ug/ml	98
72) Diethyl phthalate	7.905	149	119861	4.494	ug/ml	99
73) Fluorene	7.964	166	117290	4.685	ug/ml	91
74) 4-Chlorophenyl phenyl ...	7.986	204	60173	4.719	ug/ml#	83
75) 4-Nitroaniline	7.992	138	25472	5.040	ug/ml#	80
76) 4,6-Dinitro-o-cresol	8.029	198	22940	5.204	ug/ml#	56
77) NDPA/DPA	8.101	169	101504	4.723	ug/ml	92
78) Azobenzene	8.135	77	101145	4.672	ug/ml	96
80) 4-Bromophenyl phenyl e...	8.452	248	38636	4.555	ug/ml#	79
81) Hexachlorobenzene	8.502	284	47880	4.544	ug/ml#	78
82) Pentachlorophenol	8.694	266	30534	4.789	ug/ml	99
89) Phenanthrene	8.878	178	198418	4.702	ug/ml	100

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\240624RVT\
Data File : ABN0624.D
Acq On : 24 Jun 2024 2:00 pm
Operator : Dakota:jg
Sample : WG1938645-3,32,,ABN 10777 HNY0619A
Misc : WG1938645,,ical21225
ALS Vial : 96 Sample Multiplier: 1

Quant Time: Jun 25 20:21:09 2024
Quant Method : I:\8270\Dakota\240624RVT\FS240618RVT_14D_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Jun 25 20:11:49 2024
Response via : Initial Calibration

Sub List : ABNical - ABN ical sublist

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
90)	Anthracene	8.928	178	199258	4.897	ug/ml	99
91)	Carbazole	9.098	167	187828	4.872	ug/ml	99
92)	Di-n-butylphthalate	9.493	149	210680	4.760	ug/ml#	99
93)	Fluoranthene	10.025	202	247138	4.810	ug/ml#	90
94)	Benzidine	10.180	184	148912	5.203	ug/ml#	93
95)	Pyrene	10.236	202	261835	4.950	ug/ml	99
97)	Butyl benzyl phthalate	10.948	149	95347	4.794	ug/ml	84
105)	Benzo(a)anthracene	11.448	228	264076	4.898	ug/ml	100
106)	3,3'-Dichlorobenzidine	11.454	252	101471	5.072	ug/ml#	95
107)	Chrysene	11.486	228	250177	4.888	ug/ml	98
108)	Bis(2-ethylhexyl)phtha...	11.582	149	146483	4.831	ug/ml#	90
109)	Di-n-octylphthalate	12.253	149	244922	4.844	ug/ml#	72
110)	Benzo(b)fluoranthene	12.539	252	277086	4.814	ug/ml#	92
111)	Benzo(k)fluoranthene	12.564	252	273131	4.988	ug/ml#	92
112)	Benzo(a)pyrene	12.847	252	249998	4.903	ug/ml#	92
114)	Indeno(1,2,3-cd)pyrene	13.848	276	275897M4	4.696	ug/mL	
115)	Dibenzo(a,h)anthracene	13.869	278	269488	4.929	ug/ml#	88
116)	Benzo(ghi)perylene	14.062	276	255856	4.763	ug/ml#	84

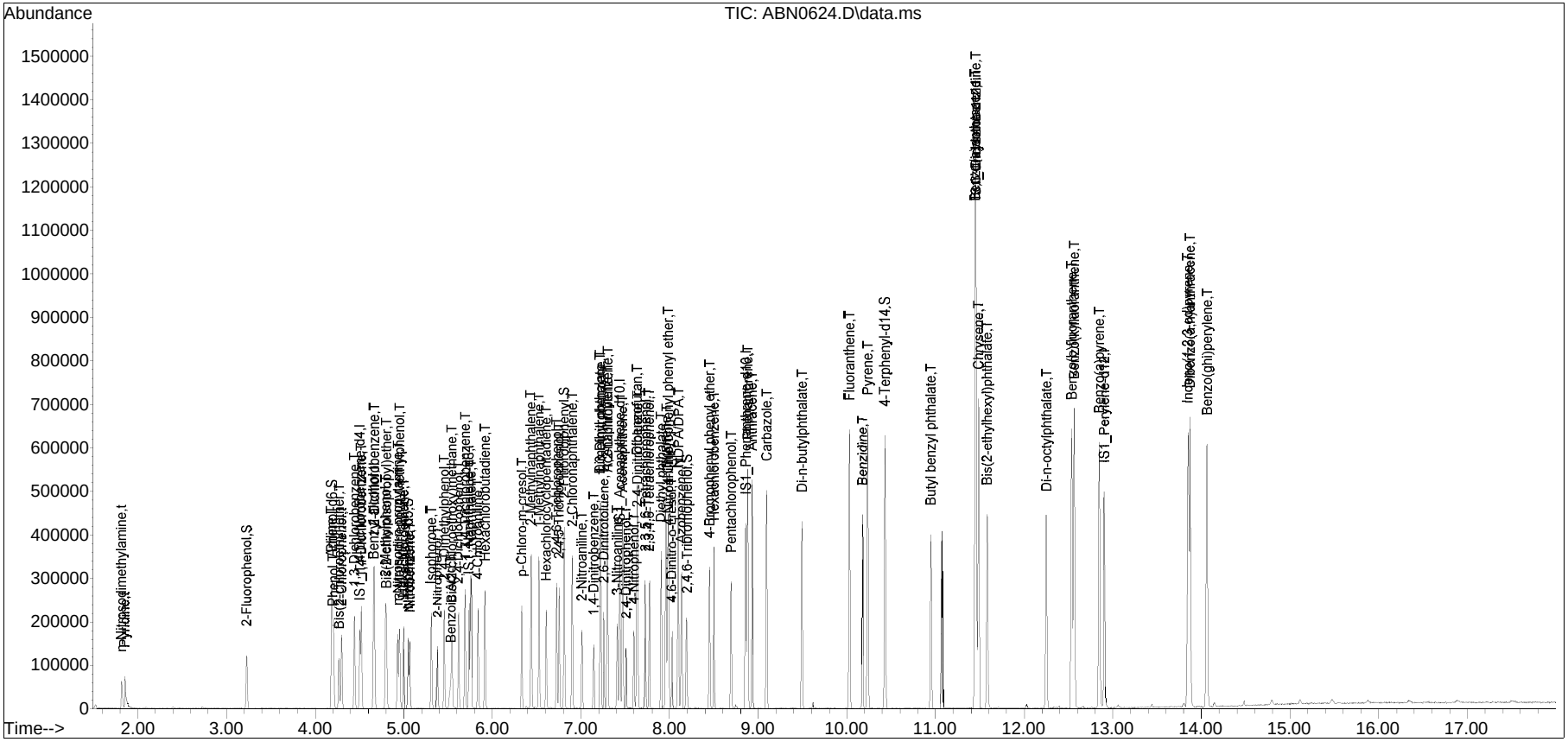
(#) = qualifier out of range (m) = manual integration (+) = signals summed

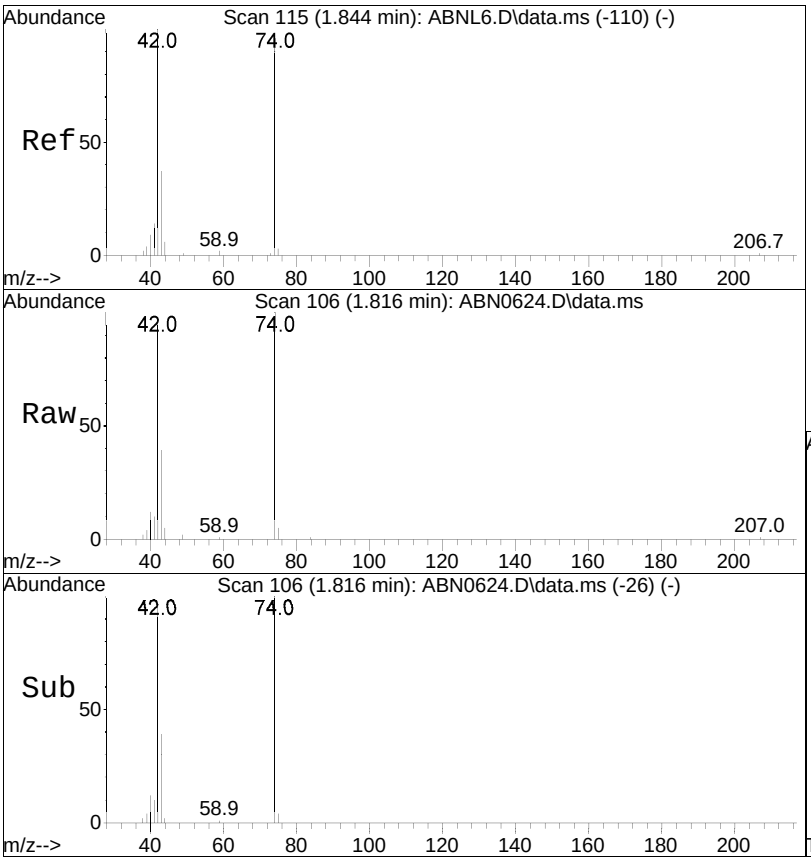
Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\240624RVT\
Data File : ABN0624.D
Acq On : 24 Jun 2024 2:00 pm
Operator : Dakota:jg
Sample : WG1938645-3,32,,ABN 10777 HNY0619A
Misc : WG1938645,,ical21225
ALS Vial : 96 Sample Multiplier: 1

Quant Time: Jun 25 20:21:09 2024
Quant Method : I:\8270\Dakota\240624RVT\FS240618RVT_14D_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Jun 25 20:11:49 2024
Response via : Initial Calibration

Sub List : ABNical - ABN ical sublist

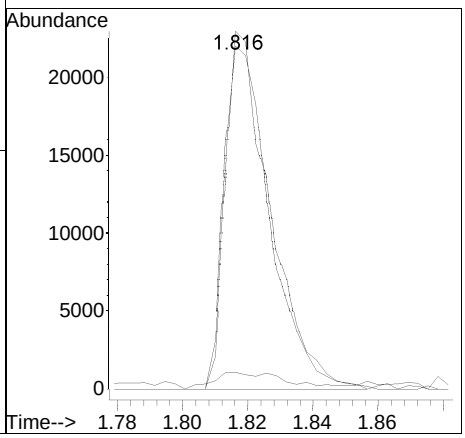


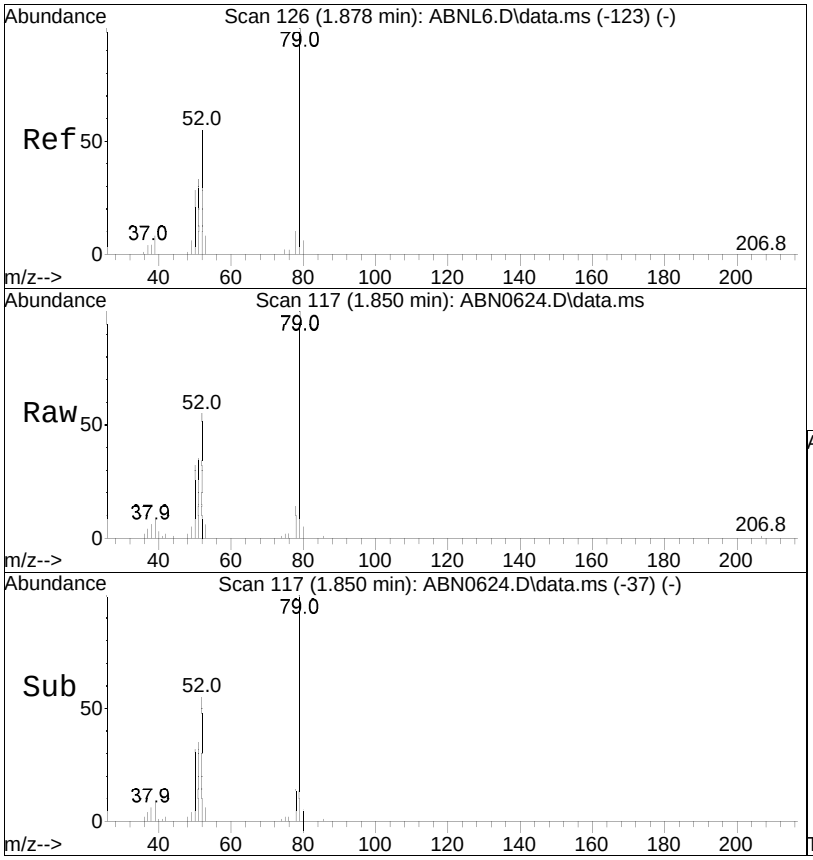


#2
n-Nitrosodimethylamine
Concen: 4.95 ug/ml
RT: 1.816 min Scan# 106
Delta R.T. 0.000 min
Lab File: ABN0624.D
Acq: 24 Jun 2024 2:00 pm

Tgt Ion: 74 Resp: 21706

Ion	Ratio	Lower	Upper
74	100		
42	99.1	100.0	150.0#
44	7.5	6.7	10.1

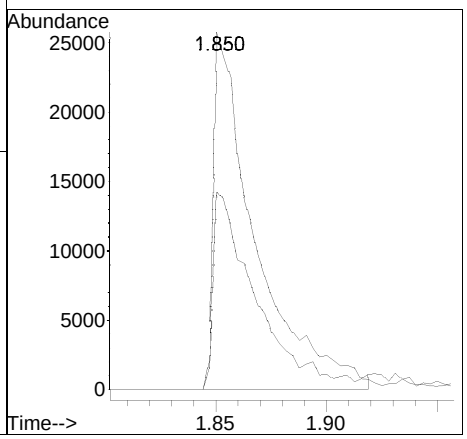


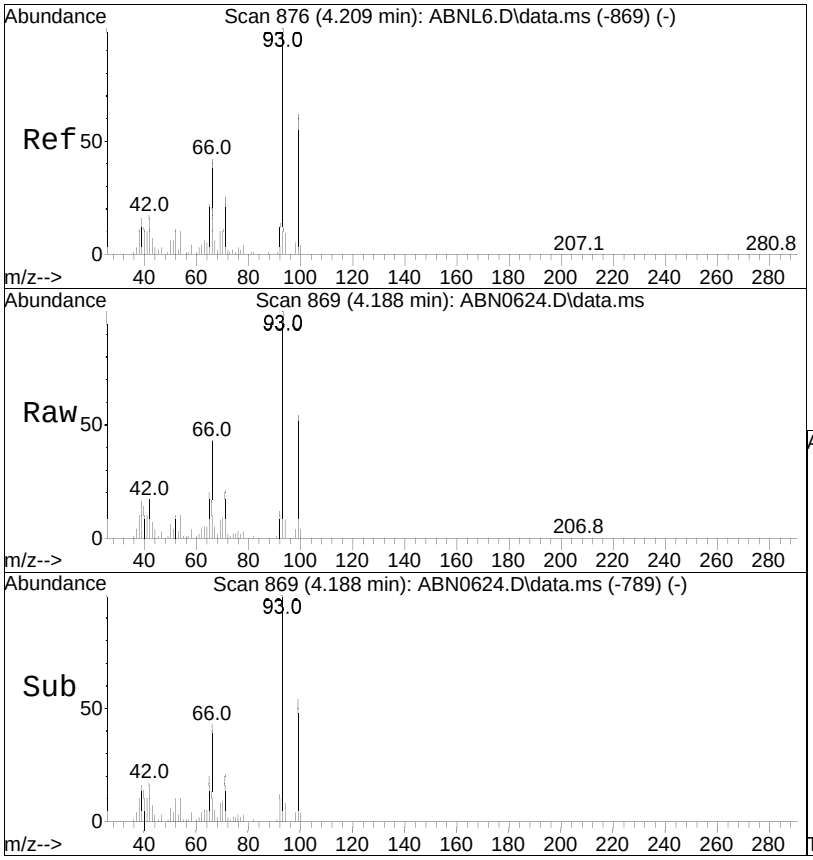


#3
Pyridine
Concen: 4.71 ug/ml
RT: 1.850 min Scan# 117
Delta R.T. 0.000 min
Lab File: ABN0624.D
Acq: 24 Jun 2024 2:00 pm

Tgt Ion: 79 Resp: 33524

Ion	Ratio	Lower	Upper
79	100		
52	58.8	93.1	139.7#

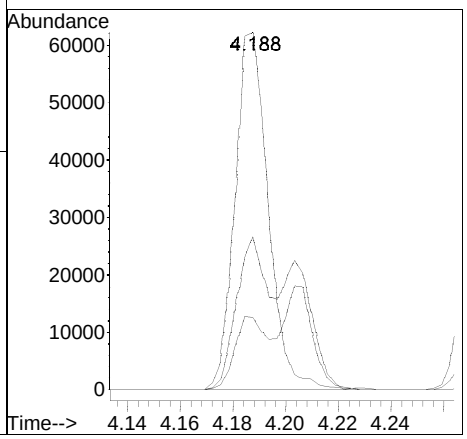


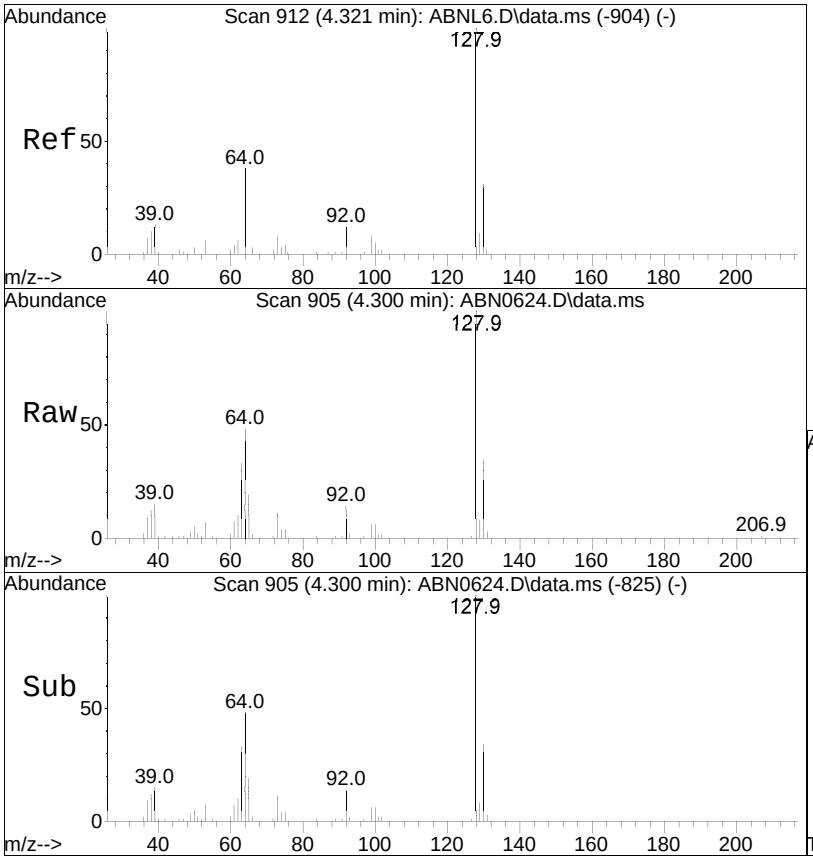


#5
Aniline
Concen: 5.03 ug/ml
RT: 4.188 min Scan# 869
Delta R.T. 0.000 min
Lab File: ABN0624.D
Acq: 24 Jun 2024 2:00 pm

Tgt Ion: 93 Resp: 54167

Ion	Ratio	Lower	Upper
93	100		
66	43.8	32.6	49.0
65	19.6	17.6	26.4

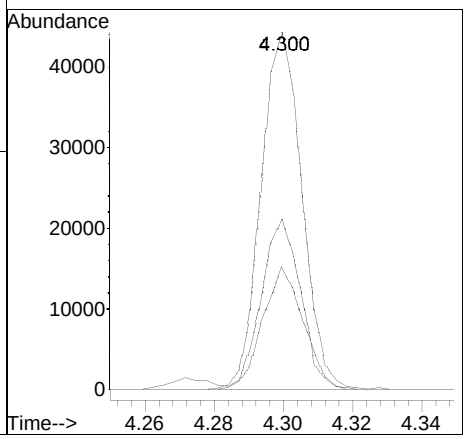


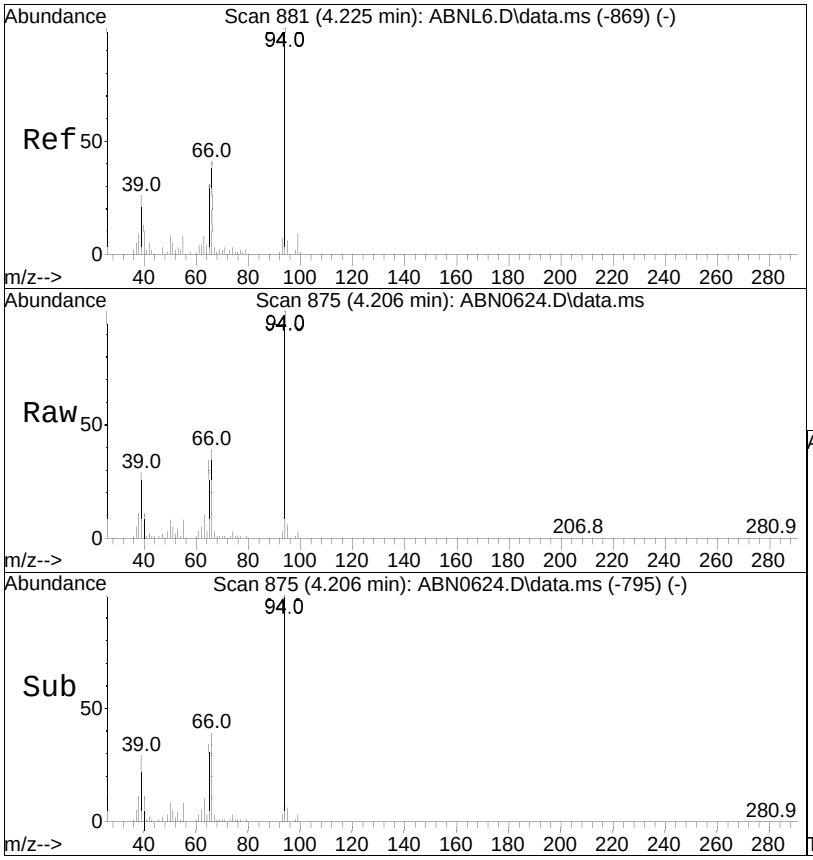


#6
2-Chlorophenol
Concen: 4.98 ug/ml
RT: 4.300 min Scan# 905
Delta R.T. 0.000 min
Lab File: ABN0624.D
Acq: 24 Jun 2024 2:00 pm

Tgt Ion:128 Resp: 36153

Ion	Ratio	Lower	Upper
128	100		
64	45.9	45.1	67.7
130	34.2	26.2	39.4

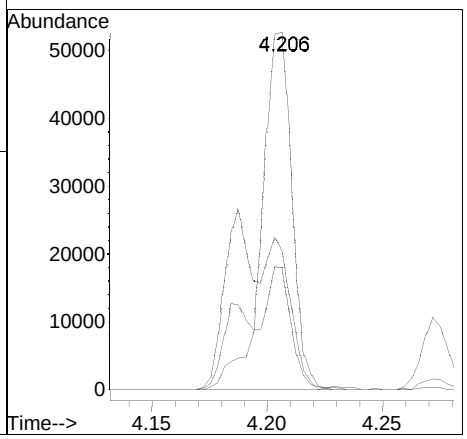


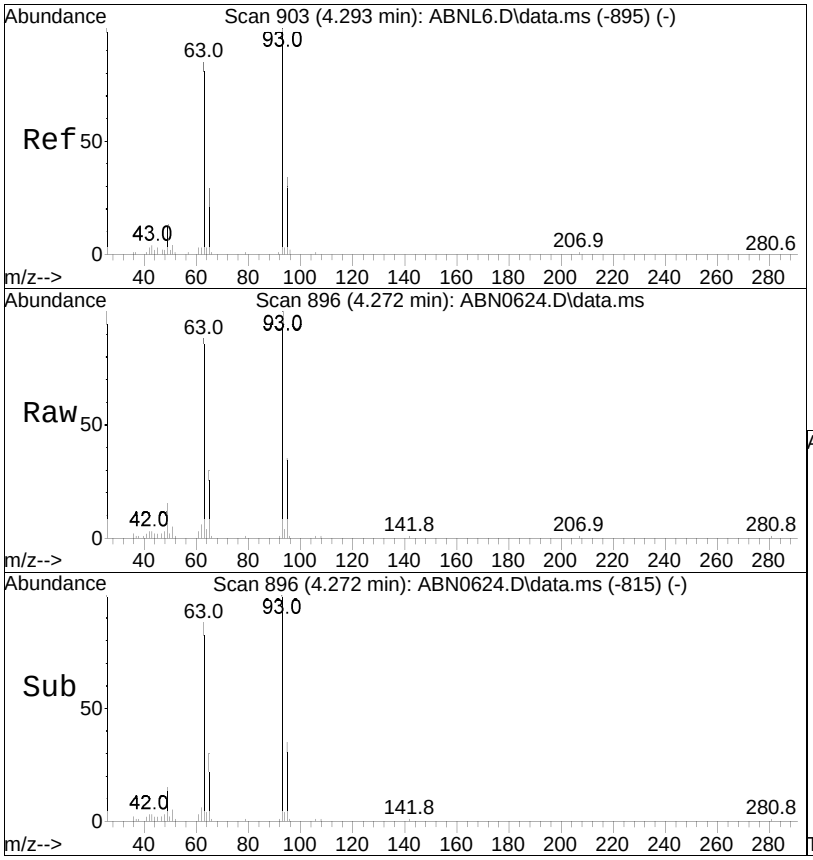


#8
Phenol
Concen: 5.02 ug/ml
RT: 4.206 min Scan# 875
Delta R.T. 0.000 min
Lab File: ABN0624.D
Acq: 24 Jun 2024 2:00 pm

Tgt Ion: 94 Resp: 47948

Ion	Ratio	Lower	Upper
94	100		
65	30.2	26.0	39.0
66	33.8	33.8	50.8#

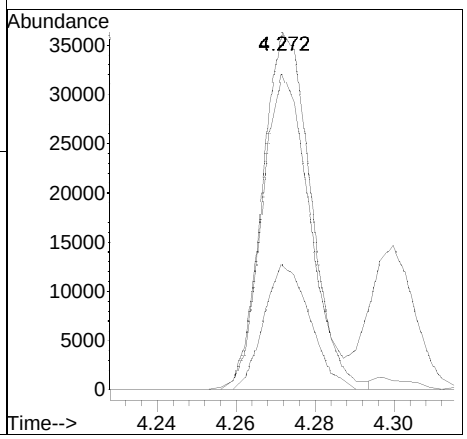


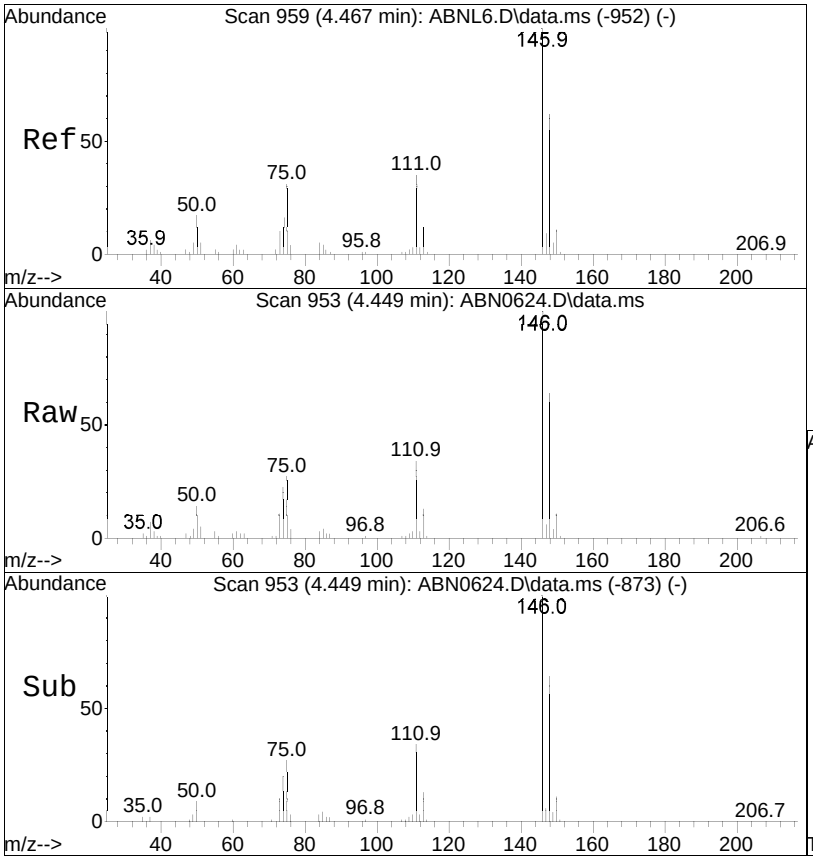


#9
Bis(2-chloroethyl)ether
Concen: 4.91 ug/ml
RT: 4.272 min Scan# 896
Delta R.T. 0.000 min
Lab File: ABN0624.D
Acq: 24 Jun 2024 2:00 pm

Tgt Ion: 93 Resp: 30739

Ion	Ratio	Lower	Upper
93	100		
63	87.5	74.6	111.8
95	33.5	25.9	38.9

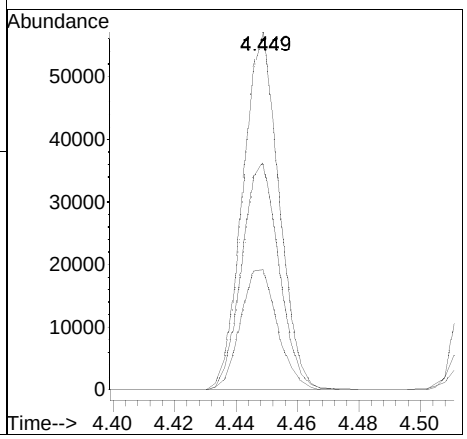


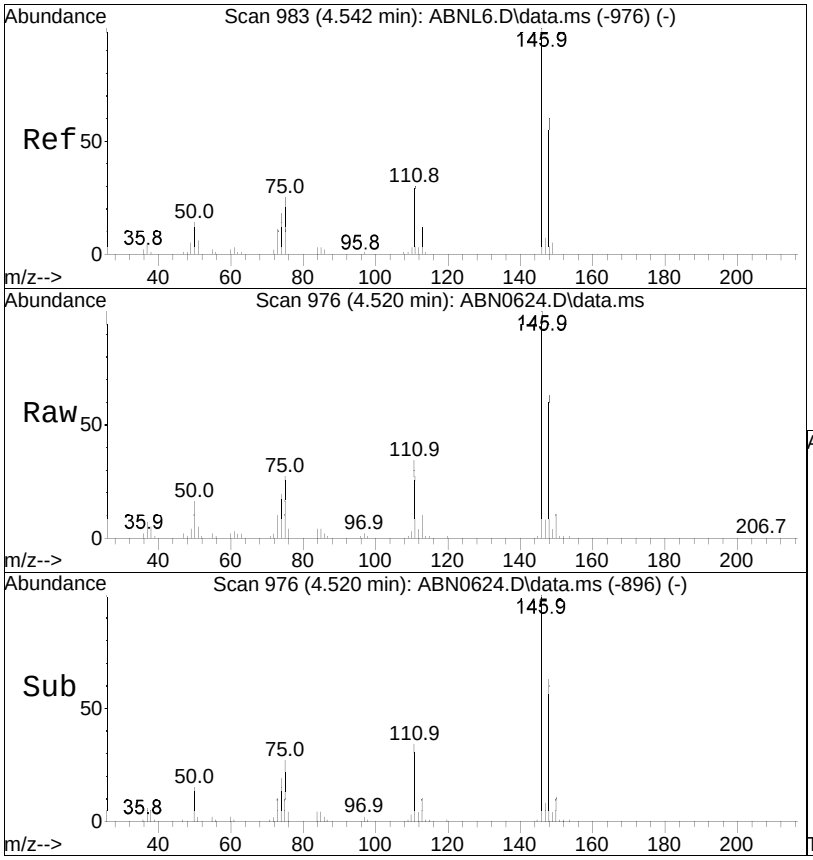


#10
1,3-Dichlorobenzene
Concen: 4.97 ug/ml
RT: 4.449 min Scan# 953
Delta R.T. 0.000 min
Lab File: ABN0624.D
Acq: 24 Jun 2024 2:00 pm

Tgt Ion:146 Resp: 46459

Ion	Ratio	Lower	Upper
146	100		
111	34.6	34.3	51.5
148	65.2	50.8	76.2

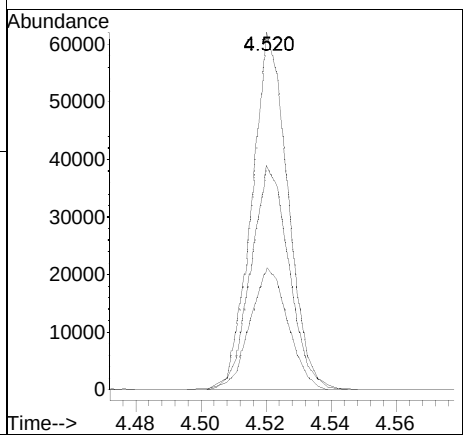


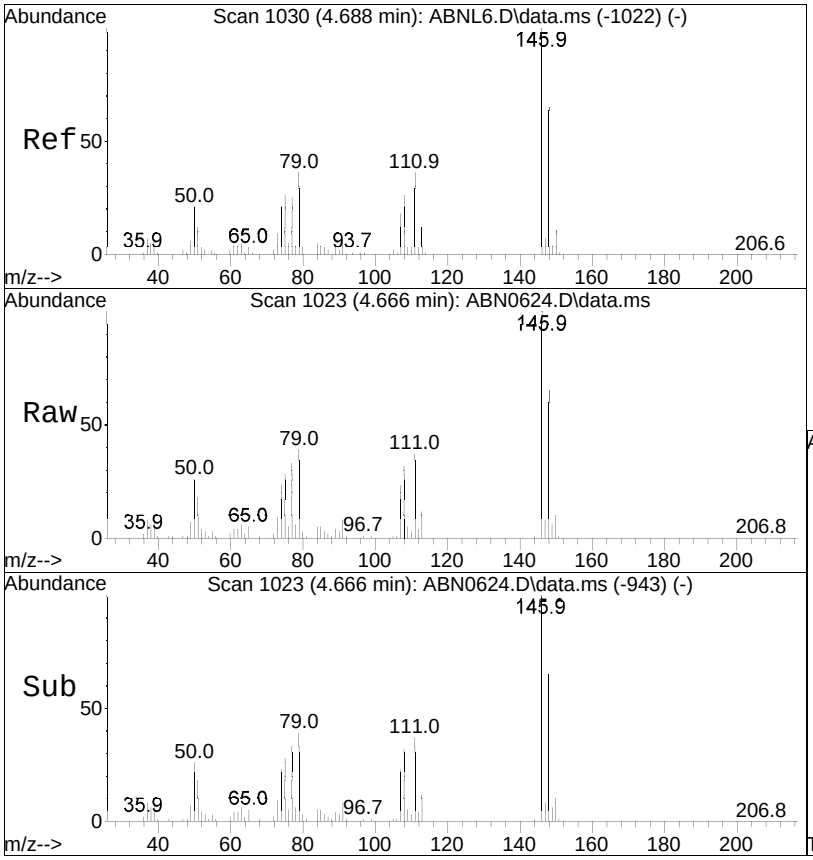


#11
1,4-Dichlorobenzene
Concen: 4.92 ug/ml
RT: 4.520 min Scan# 976
Delta R.T. 0.000 min
Lab File: ABN0624.D
Acq: 24 Jun 2024 2:00 pm

Tgt Ion:146 Resp: 47633

Ion	Ratio	Lower	Upper
146	100		
148	65.7	50.7	76.1
111	36.0	33.4	50.0

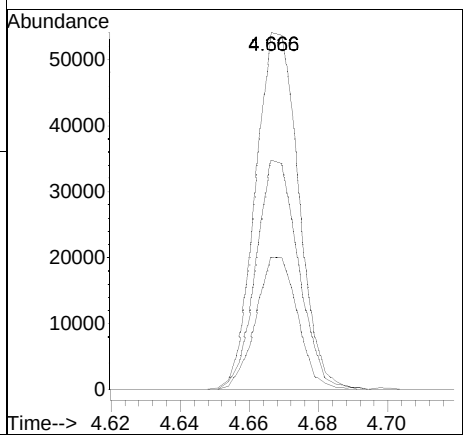


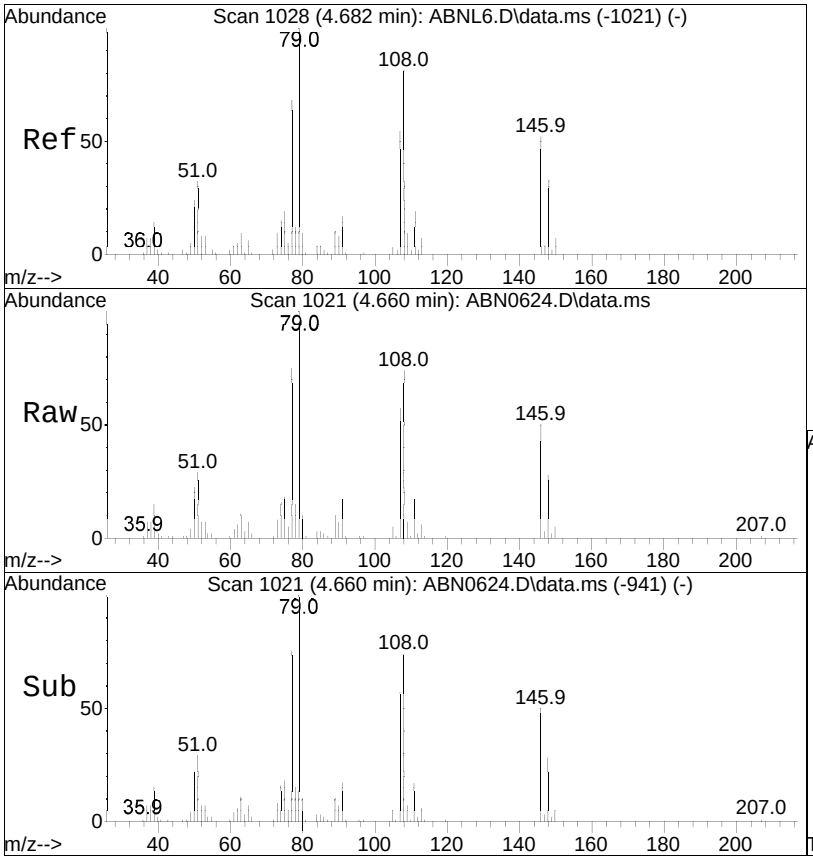


#12
1,2-Dichlorobenzene
Concen: 5.08 ug/ml
RT: 4.666 min Scan# 1023
Delta R.T. 0.000 min
Lab File: ABN0624.D
Acq: 24 Jun 2024 2:00 pm

Tgt Ion:146 Resp: 46652

Ion	Ratio	Lower	Upper
146	100		
111	36.0	34.6	52.0
148	63.1	50.2	75.4

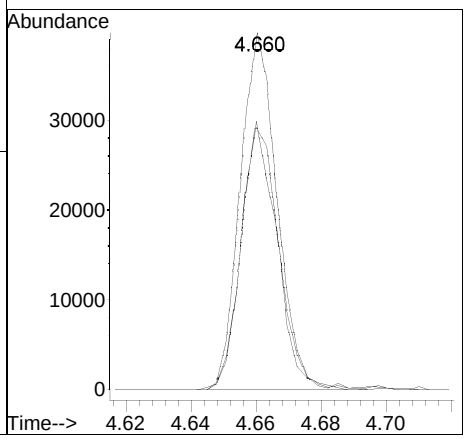


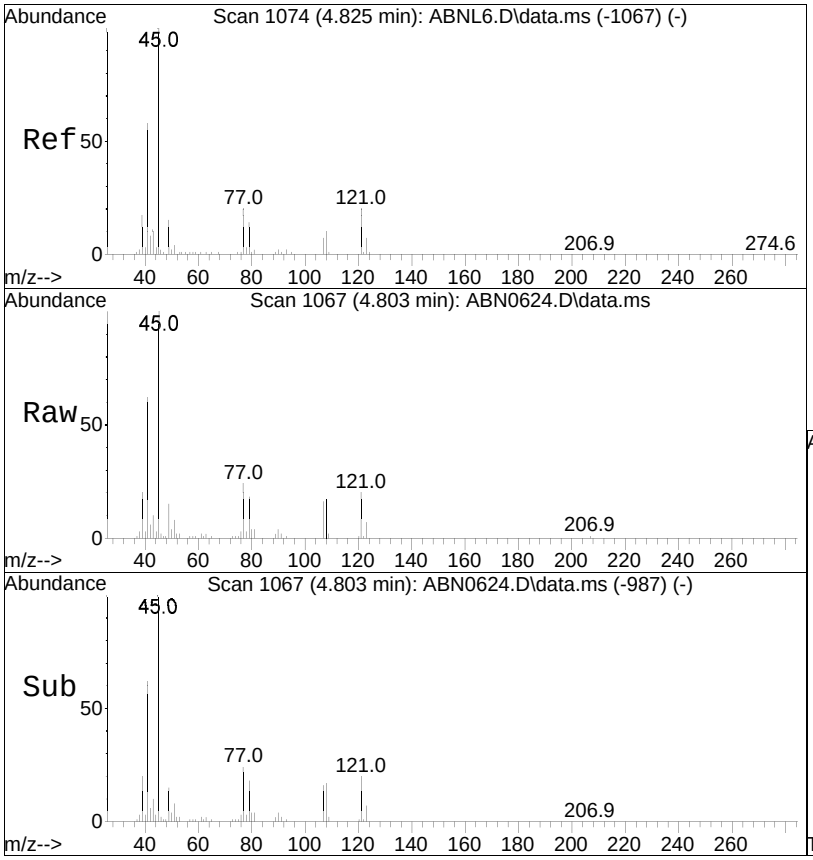


#13
Benzyl alcohol
Concen: 5.08 ug/ml
RT: 4.660 min Scan# 1021
Delta R.T. 0.000 min
Lab File: ABN0624.D
Acq: 24 Jun 2024 2:00 pm

Tgt Ion: 79 Resp: 31198

Ion	Ratio	Lower	Upper
79	100		
77	72.5	54.9	82.3
108	75.1	63.1	94.7

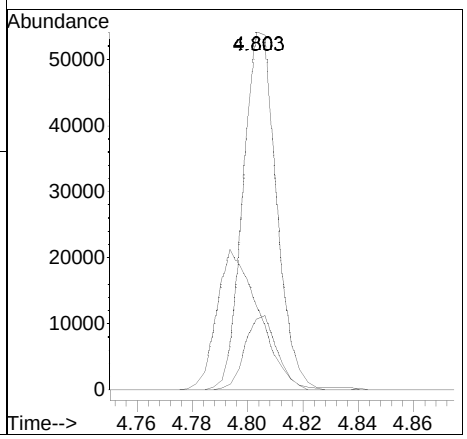


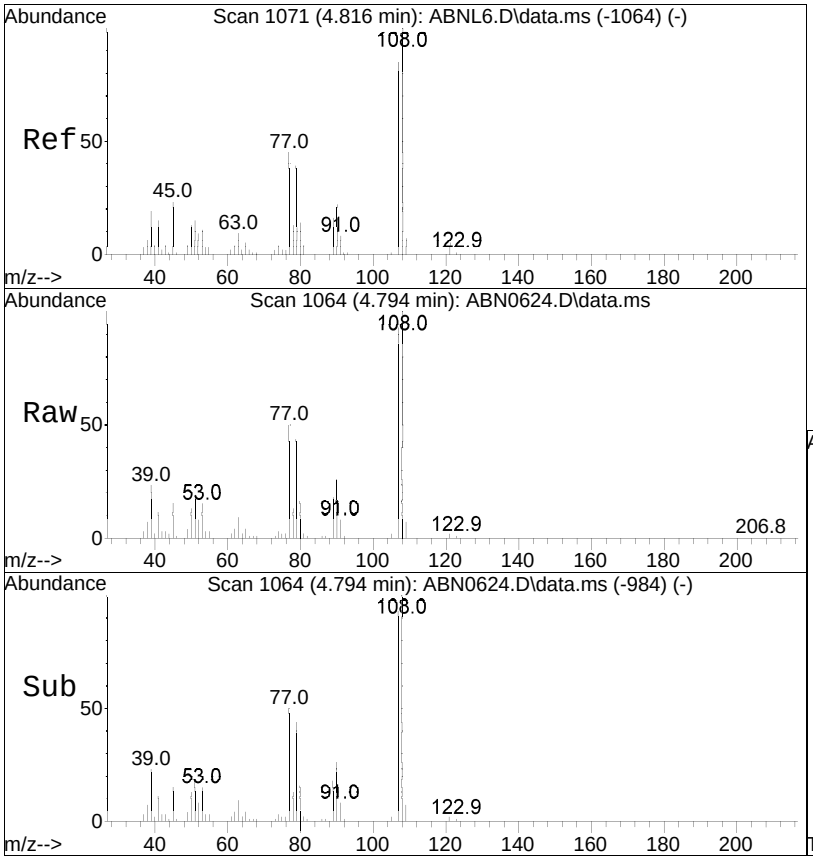


#14
Bis(2-chloroisopropyl)ether
Concen: 4.86 ug/ml
RT: 4.803 min Scan# 1067
Delta R.T. 0.000 min
Lab File: ABN0624.D
Acq: 24 Jun 2024 2:00 pm

Tgt Ion: 45 Resp: 45398

Ion	Ratio	Lower	Upper
45	100		
121	19.8	9.8	14.6#
77	49.2	6.1	9.1#

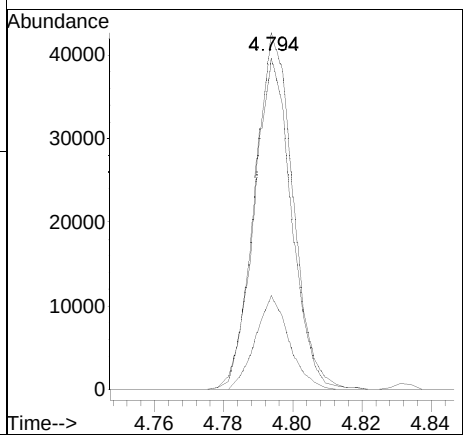


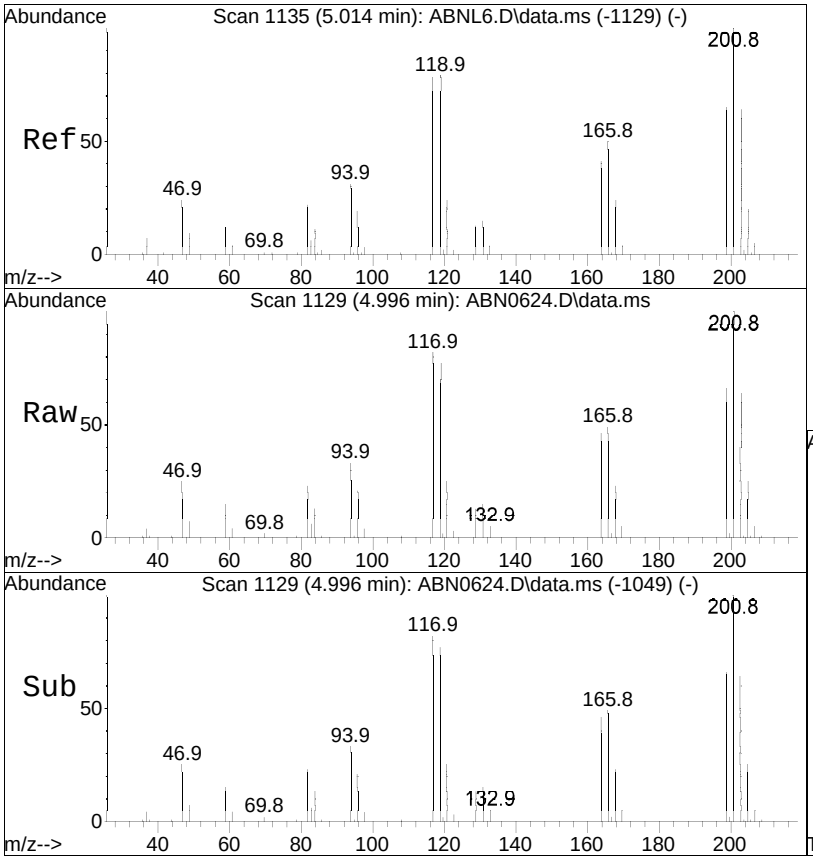


#15
2-Methylphenol
Concen: 5.00 ug/ml
RT: 4.794 min Scan# 1064
Delta R.T. 0.000 min
Lab File: ABN0624.D
Acq: 24 Jun 2024 2:00 pm

Tgt Ion:108 Resp: 32771

Ion	Ratio	Lower	Upper
108	100		
107	90.4	70.7	106.1
90	23.3	18.7	28.1

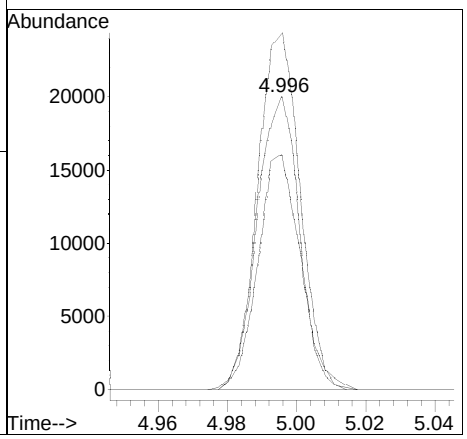


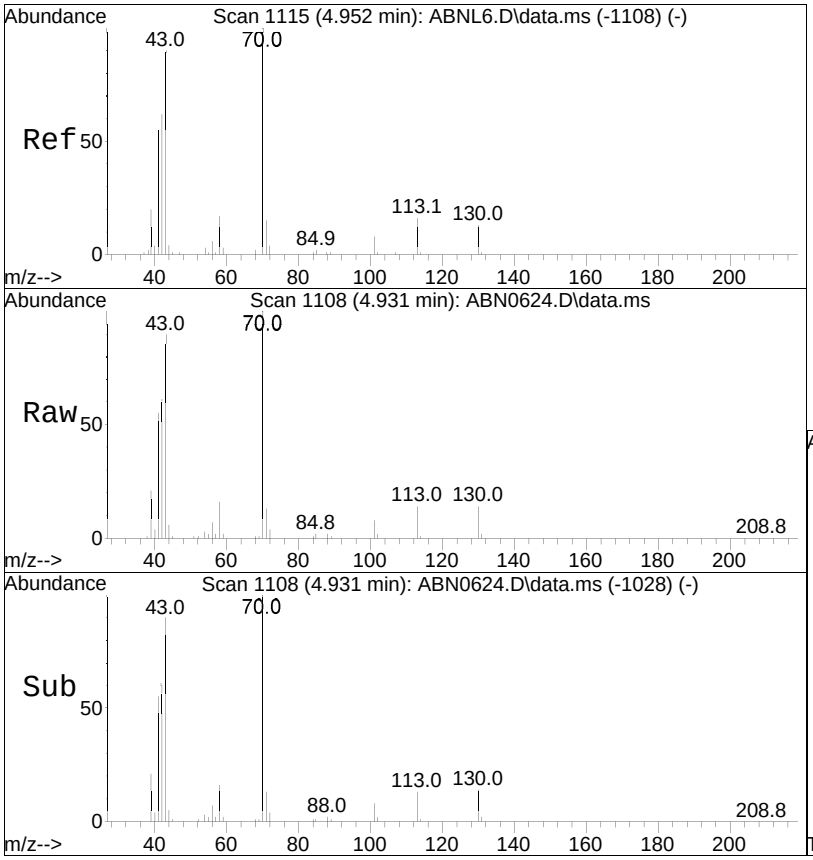


#16
Hexachloroethane
Concen: 4.94 ug/ml
RT: 4.996 min Scan# 1129
Delta R.T. 0.000 min
Lab File: ABN0624.D
Acq: 24 Jun 2024 2:00 pm

Tgt Ion:117 Resp: 16979

Ion	Ratio	Lower	Upper
117	100		
201	123.1	58.6	87.8#
199	79.9	36.9	55.3#

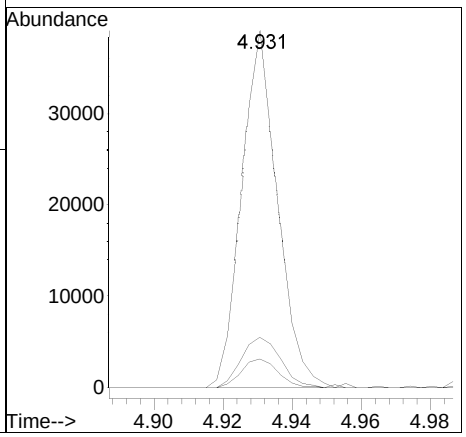


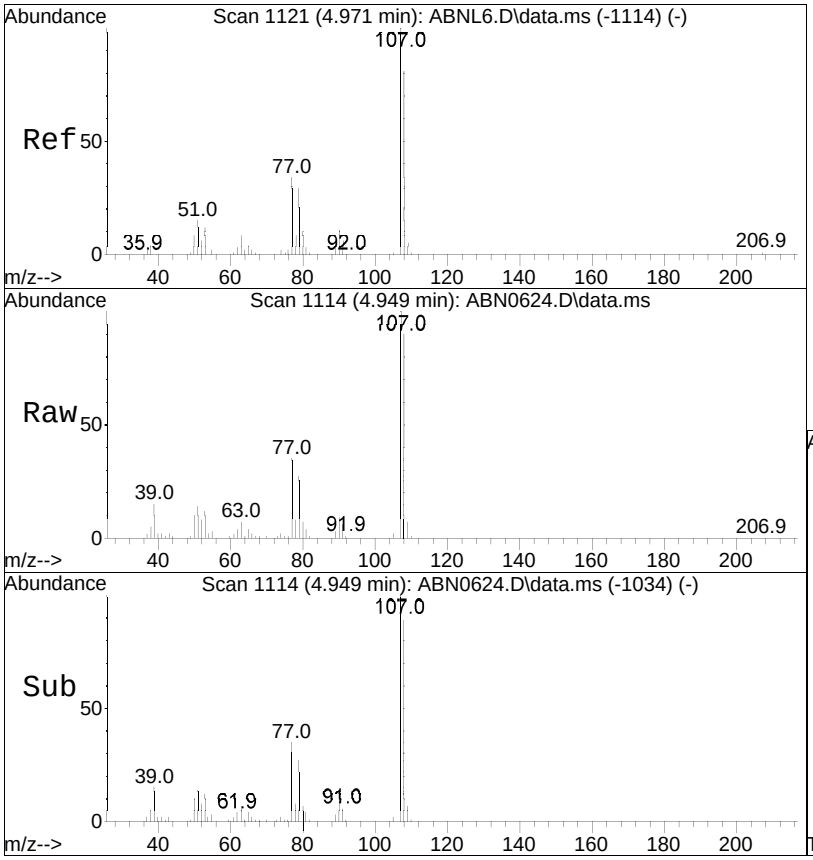


#17
n-Nitrosodi-n-propylamine
Concen: 4.86 ug/ml
RT: 4.931 min Scan# 1108
Delta R.T. 0.000 min
Lab File: ABN0624.D
Acq: 24 Jun 2024 2:00 pm

Tgt Ion: 70 Resp: 28003

Ion	Ratio	Lower	Upper
70	100		
130	15.4	18.2	27.4#
101	8.3	7.8	11.8

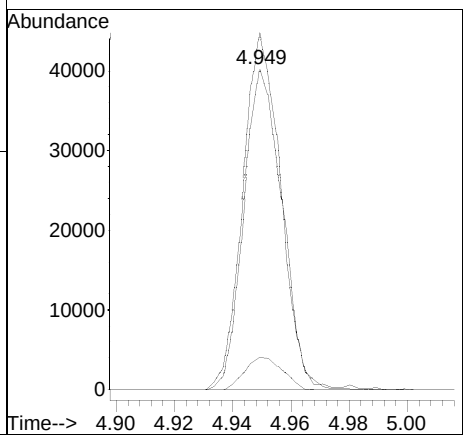


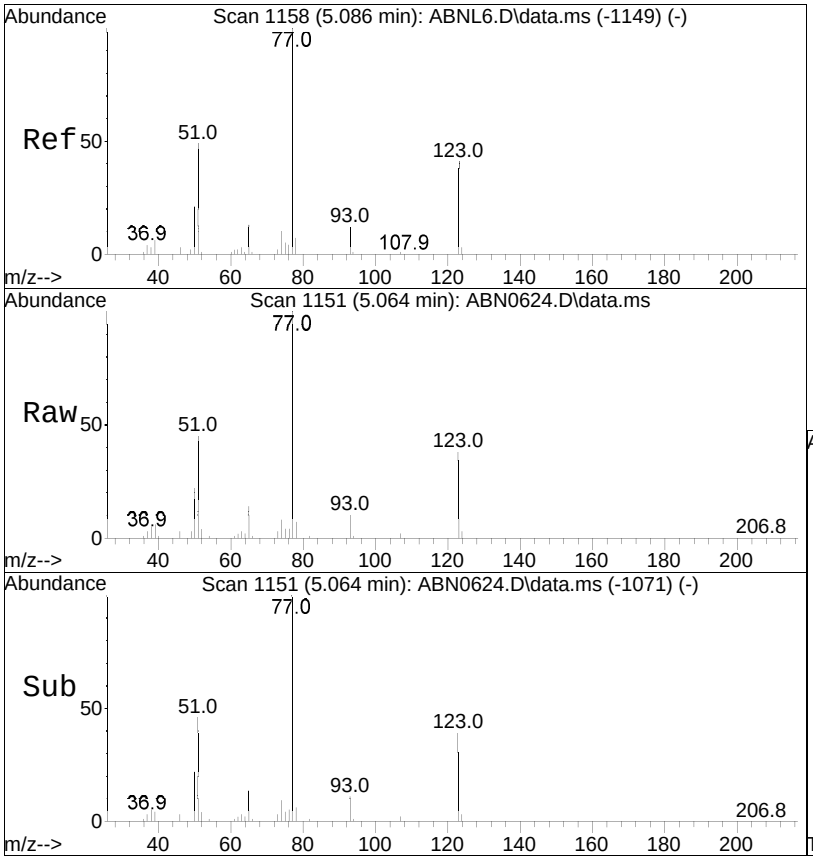


#18
3-Methylphenol/4-Methylphenol
Concen: 5.34 ug/ml
RT: 4.949 min Scan# 1114
Delta R.T. 0.000 min
Lab File: ABN0624.D
Acq: 24 Jun 2024 2:00 pm

Tgt Ion:108 Resp: 36899

Ion	Ratio	Lower	Upper
108	100		
107	109.3	88.6	132.8
90	10.0	8.8	13.2

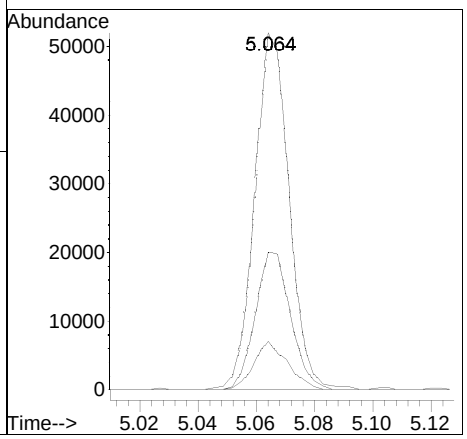


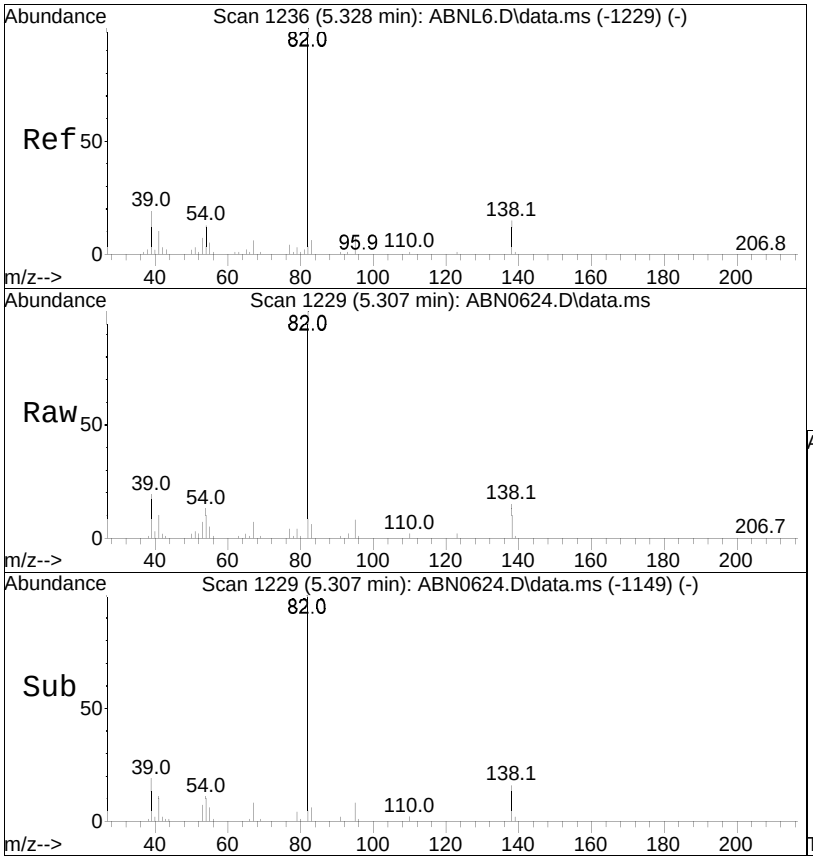


#20
Nitrobenzene
Concen: 5.15 ug/ml
RT: 5.064 min Scan# 1151
Delta R.T. 0.000 min
Lab File: ABN0624.D
Acq: 24 Jun 2024 2:00 pm

Tgt Ion: 77 Resp: 42173

Ion	Ratio	Lower	Upper
77	100		
123	39.7	36.3	54.5
65	13.4	11.6	17.4

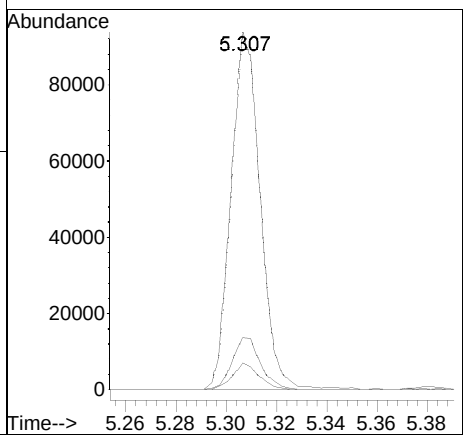


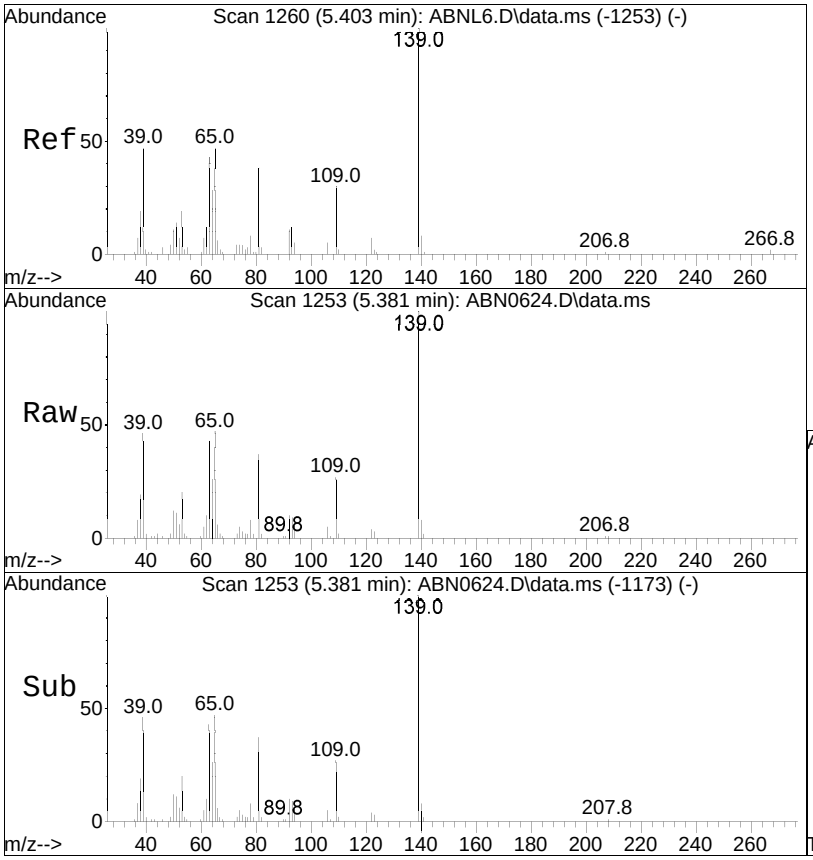


#21
Isophorone
Concen: 5.19 ug/ml
RT: 5.307 min Scan# 1229
Delta R.T. 0.000 min
Lab File: ABN0624.D
Acq: 24 Jun 2024 2:00 pm

Tgt Ion: 82 Resp: 74498

Ion	Ratio	Lower	Upper
82	100		
138	14.2	14.7	22.1#
95	6.7	5.2	7.8

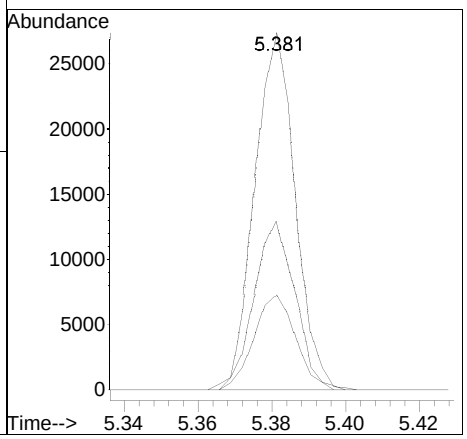


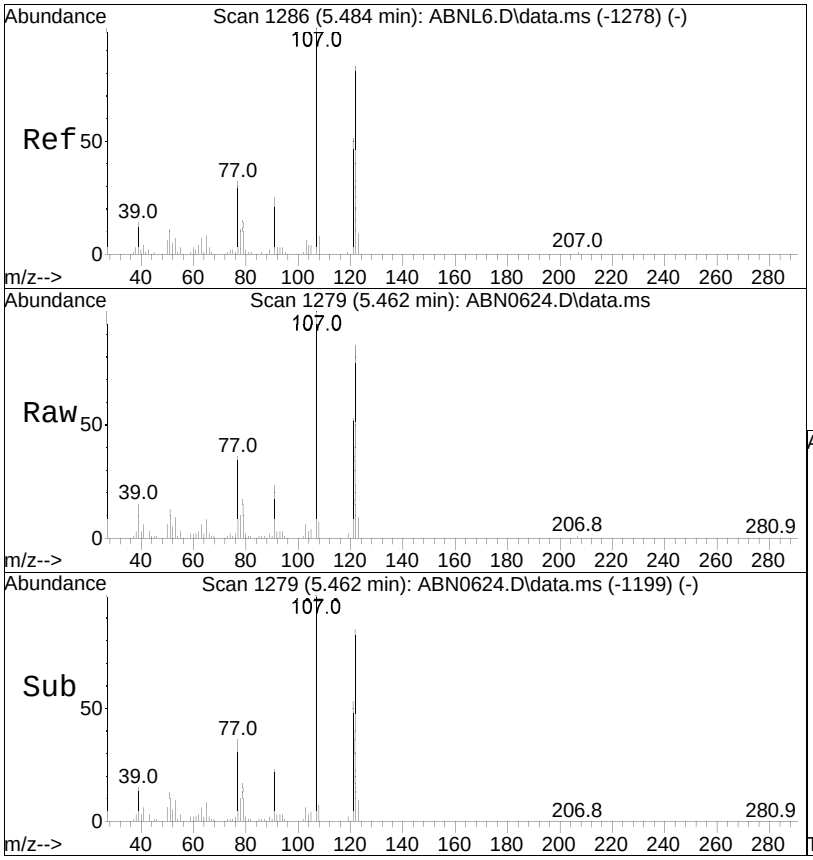


#22
2-Nitrophenol
Concen: 5.11 ug/ml
RT: 5.381 min Scan# 1253
Delta R.T. 0.000 min
Lab File: ABN0624.D
Acq: 24 Jun 2024 2:00 pm

Tgt Ion:139 Resp: 20789

Ion	Ratio	Lower	Upper
139	100		
109	27.4	19.4	29.0
65	47.7	46.1	69.1

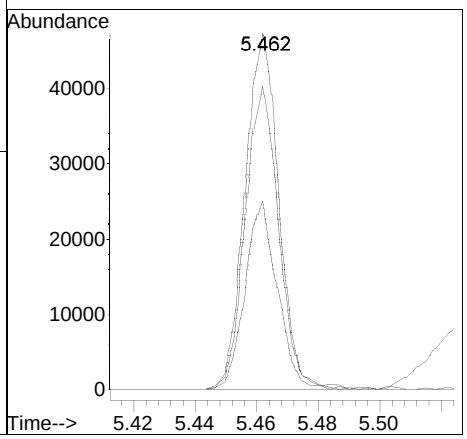


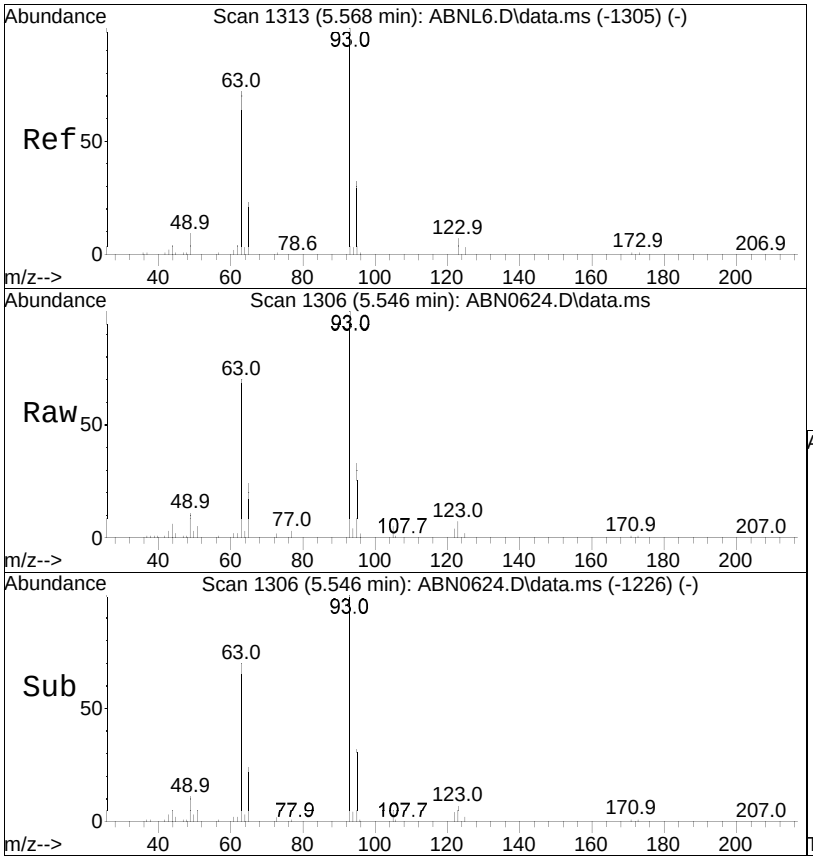


#23
2,4-Dimethylphenol
Concen: 5.19 ug/ml
RT: 5.462 min Scan# 1279
Delta R.T. 0.000 min
Lab File: ABN0624.D
Acq: 24 Jun 2024 2:00 pm

Tgt Ion:107 Resp: 35924

Ion	Ratio	Lower	Upper
107	100		
121	50.8	40.0	60.0
122	84.1	70.2	105.4

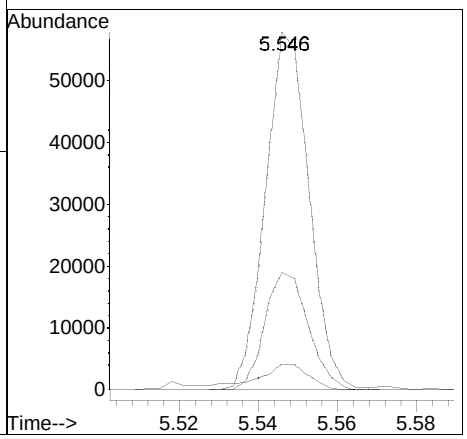


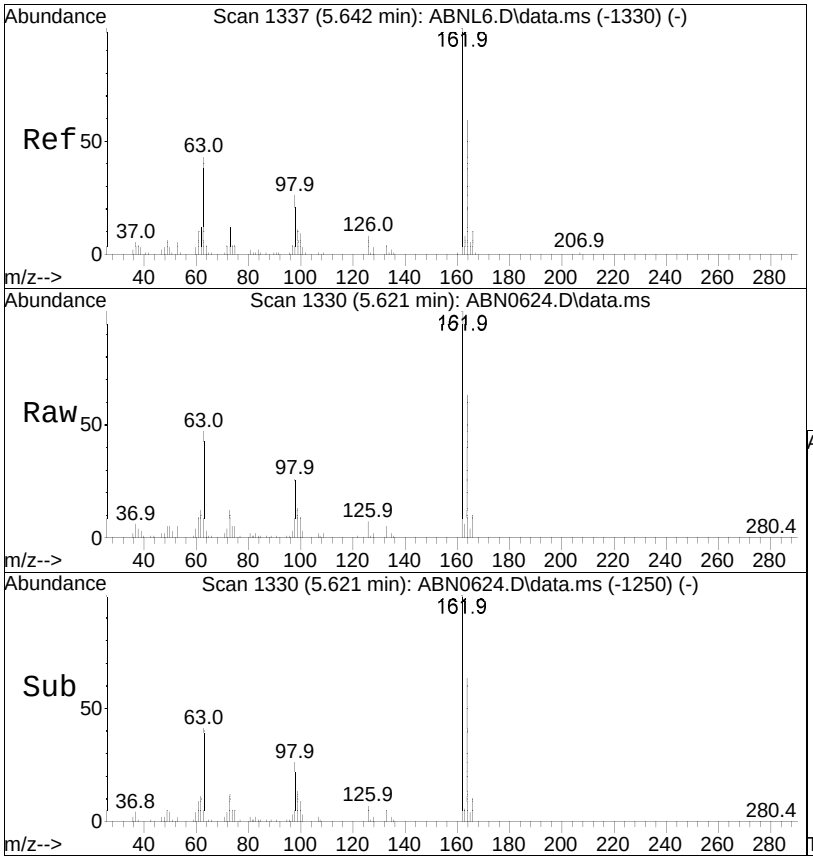


#24
Bis(2-chloroethoxy)methane
Concen: 4.98 ug/ml
RT: 5.546 min Scan# 1306
Delta R.T. 0.000 min
Lab File: ABN0624.D
Acq: 24 Jun 2024 2:00 pm

Tgt Ion: 93 Resp: 43942

Ion	Ratio	Lower	Upper
93	100		
95	33.0	25.8	38.8
123	8.9	10.1	15.1#

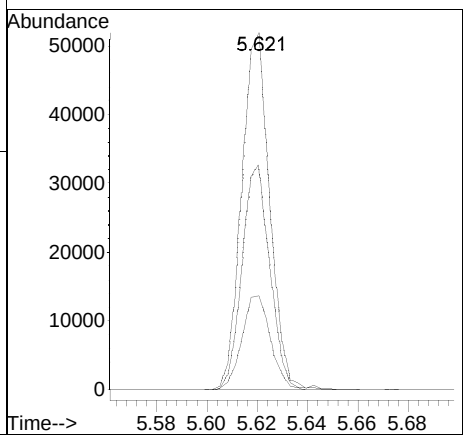


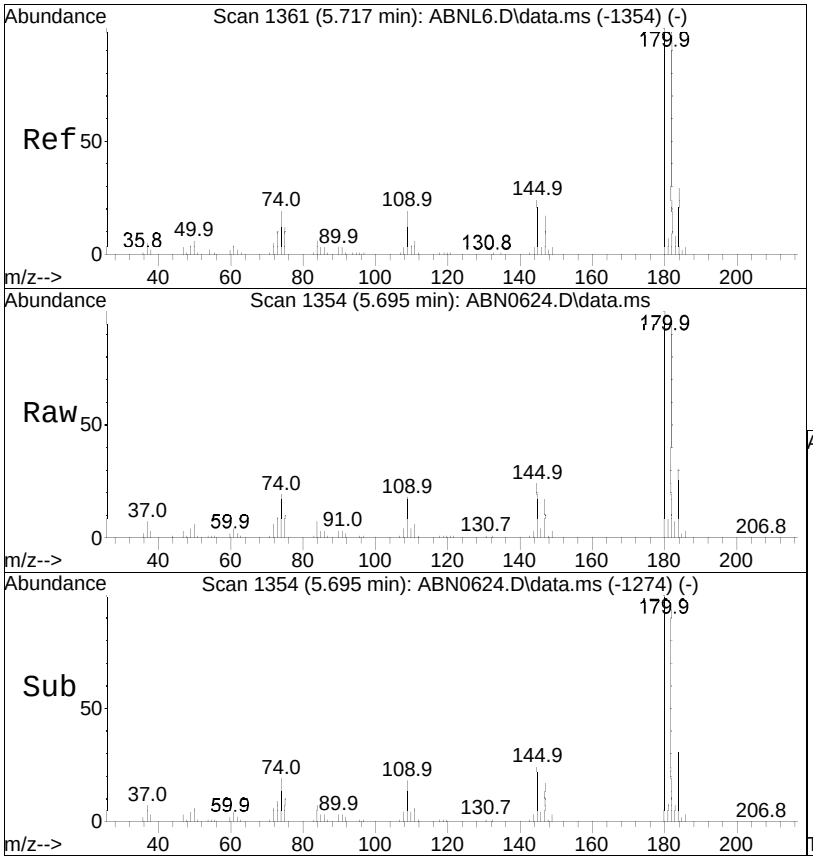


#25
2,4-Dichlorophenol
Concen: 5.14 ug/ml
RT: 5.621 min Scan# 1330
Delta R.T. 0.000 min
Lab File: ABN0624.D
Acq: 24 Jun 2024 2:00 pm

Tgt Ion:162 Resp: 40161

Ion	Ratio	Lower	Upper
162	100		
164	62.6	51.0	76.4
98	27.1	32.2	48.2#

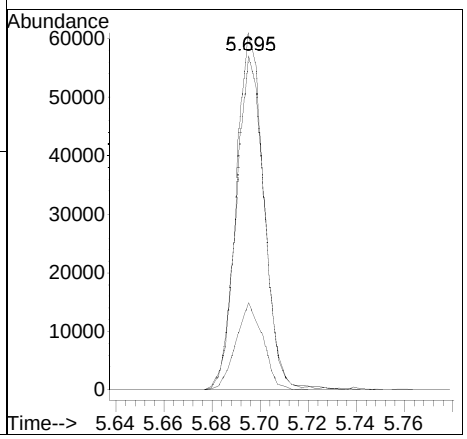


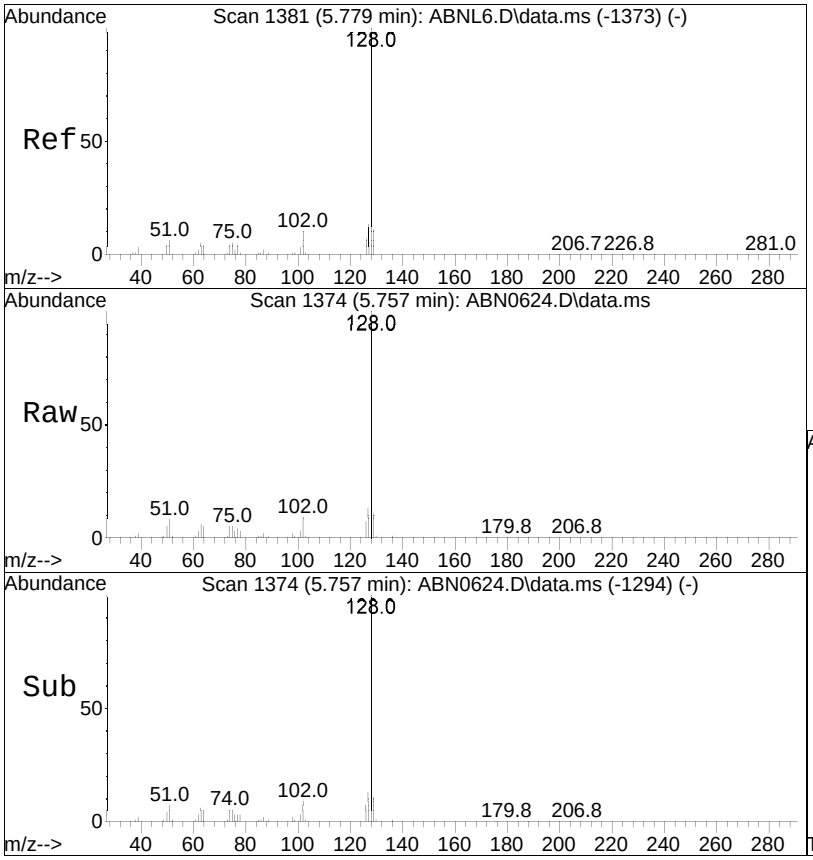


#26
1,2,4-Trichlorobenzene
Concen: 4.98 ug/ml
RT: 5.695 min Scan# 1354
Delta R.T. 0.000 min
Lab File: ABN0624.D
Acq: 24 Jun 2024 2:00 pm

Tgt Ion:180 Resp: 48548

Ion	Ratio	Lower	Upper
180	100		
182	95.0	76.0	114.0
145	23.9	25.7	38.5#

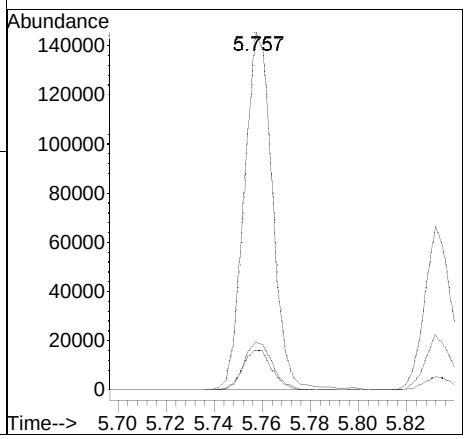


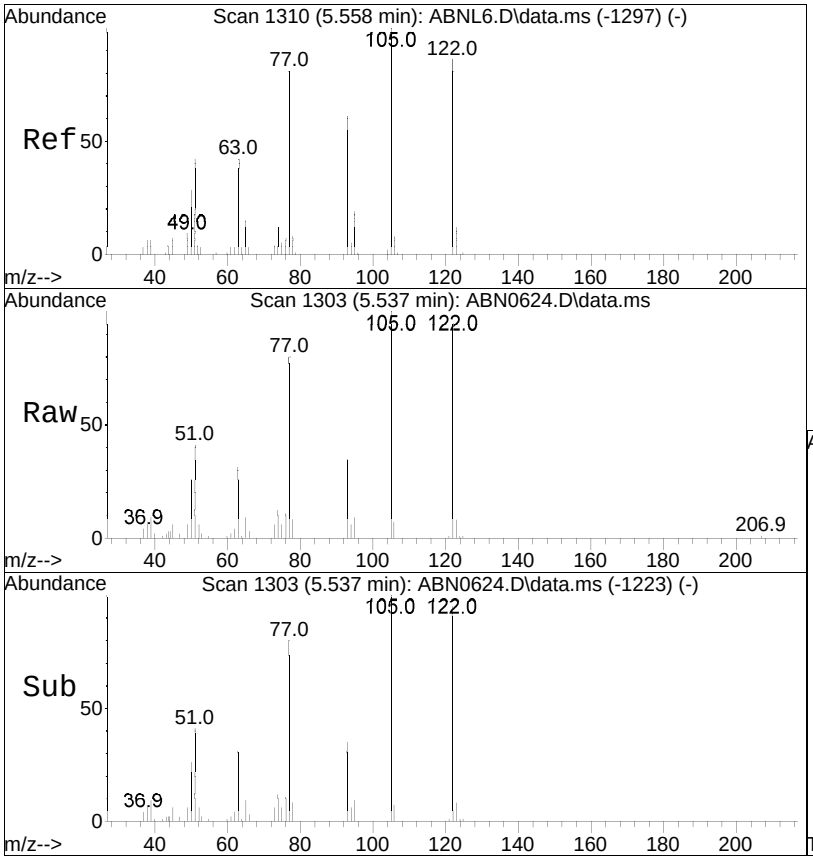


#36
Naphthalene
Concen: 4.92 ug/ml
RT: 5.757 min Scan# 1374
Delta R.T. 0.000 min
Lab File: ABN0624.D
Acq: 24 Jun 2024 2:00 pm

Tgt Ion:128 Resp: 118126

Ion	Ratio	Lower	Upper
128	100		
129	11.4	8.7	13.1
127	13.6	10.3	15.5

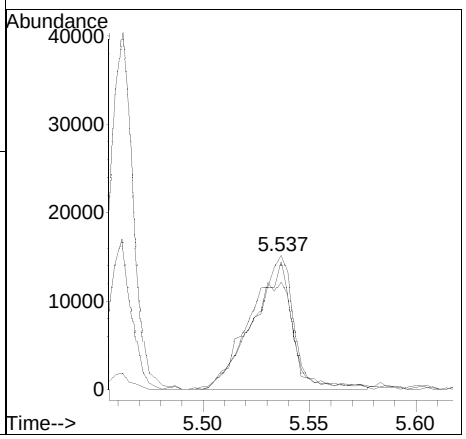


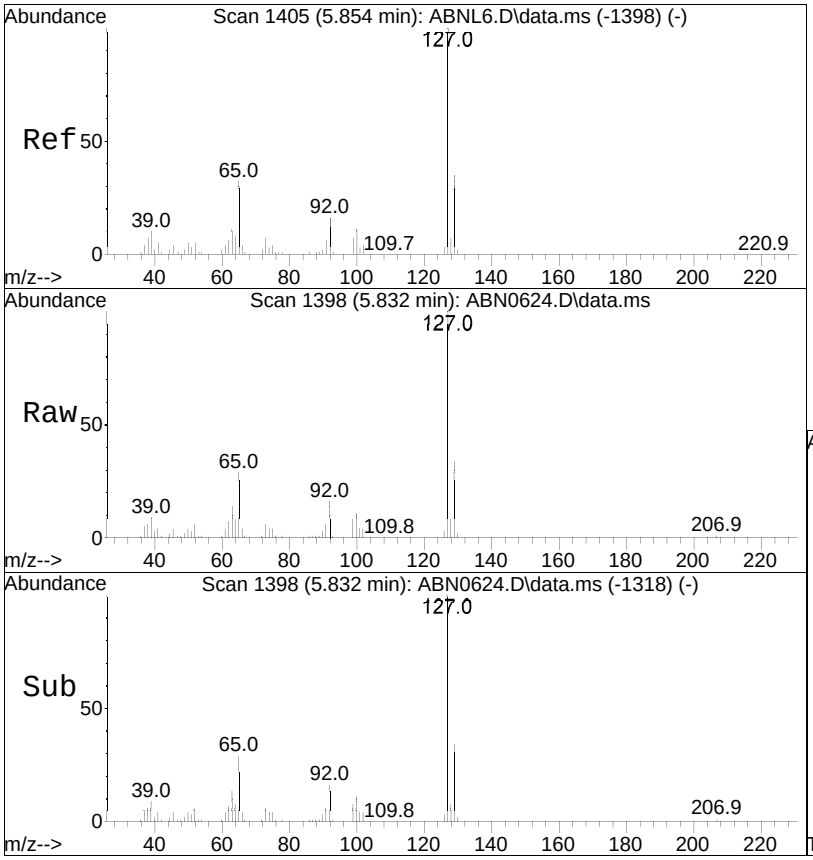


#37
Benzoic Acid
Concen: 4.16 ug/ml
RT: 5.537 min Scan# 1303
Delta R.T. 0.000 min
Lab File: ABN0624.D
Acq: 24 Jun 2024 2:00 pm

Tgt Ion:105 Resp: 21563

Ion	Ratio	Lower	Upper
105	100		
122	85.6	59.9	89.9
77	84.2	60.1	90.1

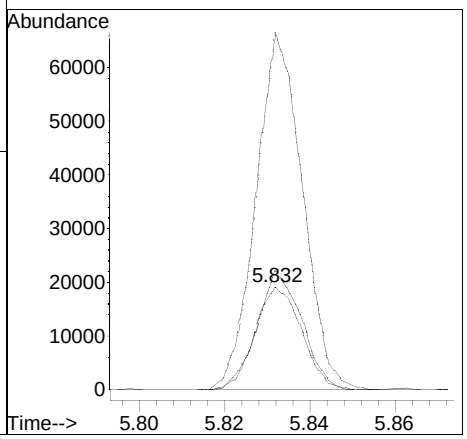


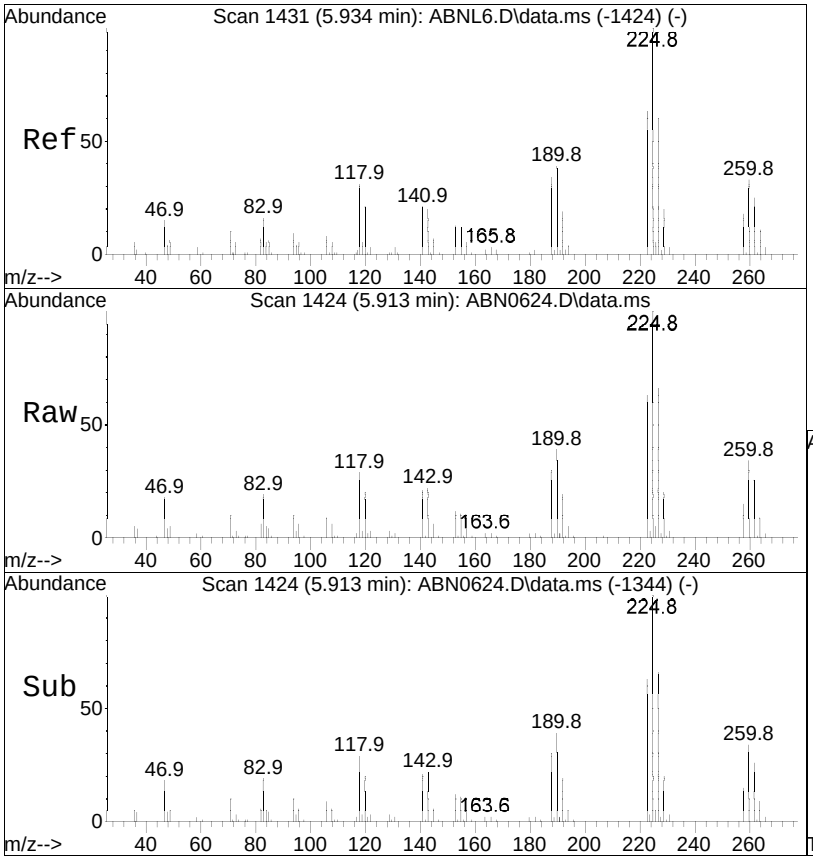


#38
4-Chloroaniline
Concen: 5.00 ug/ml
RT: 5.832 min Scan# 1398
Delta R.T. 0.000 min
Lab File: ABN0624.D
Acq: 24 Jun 2024 2:00 pm

Tgt Ion: 65 Resp: 14600

Ion	Ratio	Lower	Upper
65	100		
127	343.5	237.6	356.4
129	110.7	76.3	114.5

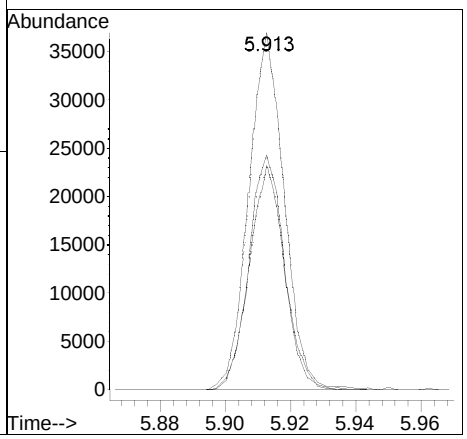


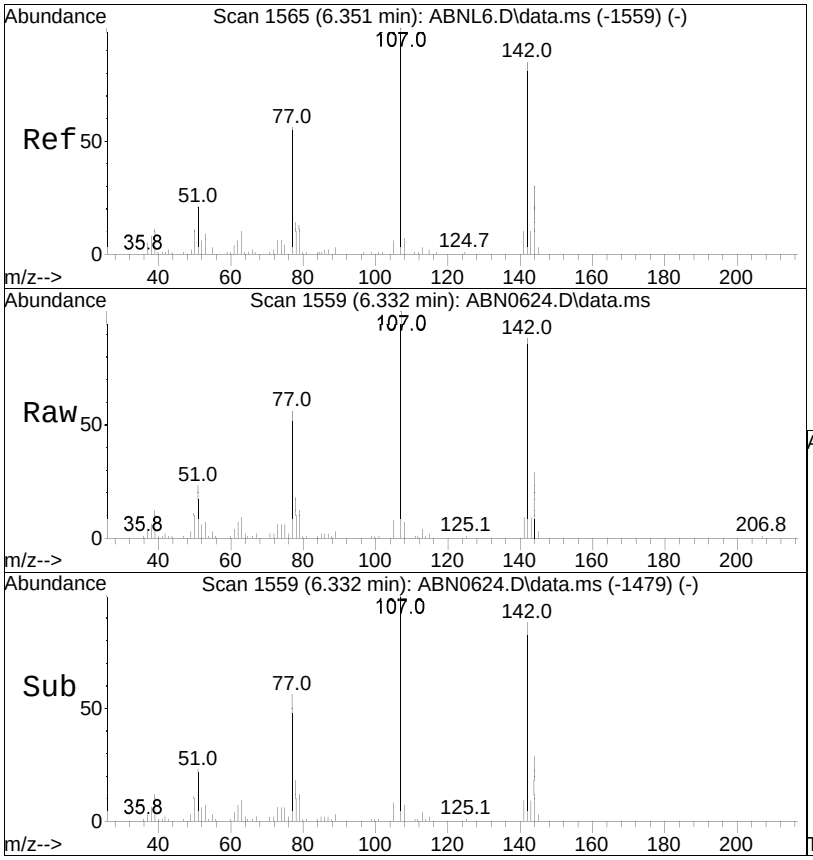


#39
Hexachlorobutadiene
Concen: 4.84 ug/ml
RT: 5.913 min Scan# 1424
Delta R.T. 0.000 min
Lab File: ABN0624.D
Acq: 24 Jun 2024 2:00 pm

Tgt Ion:225 Resp: 27912

Ion	Ratio	Lower	Upper
225	100		
223	62.2	50.3	75.5
227	66.4	52.2	78.2

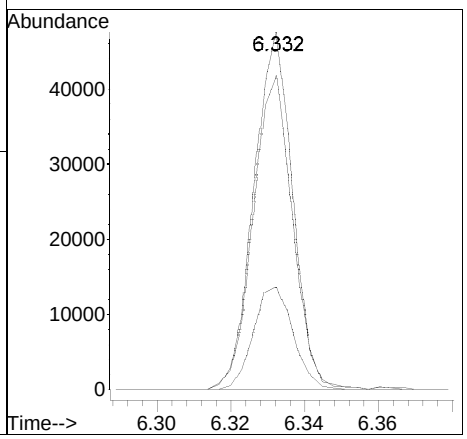


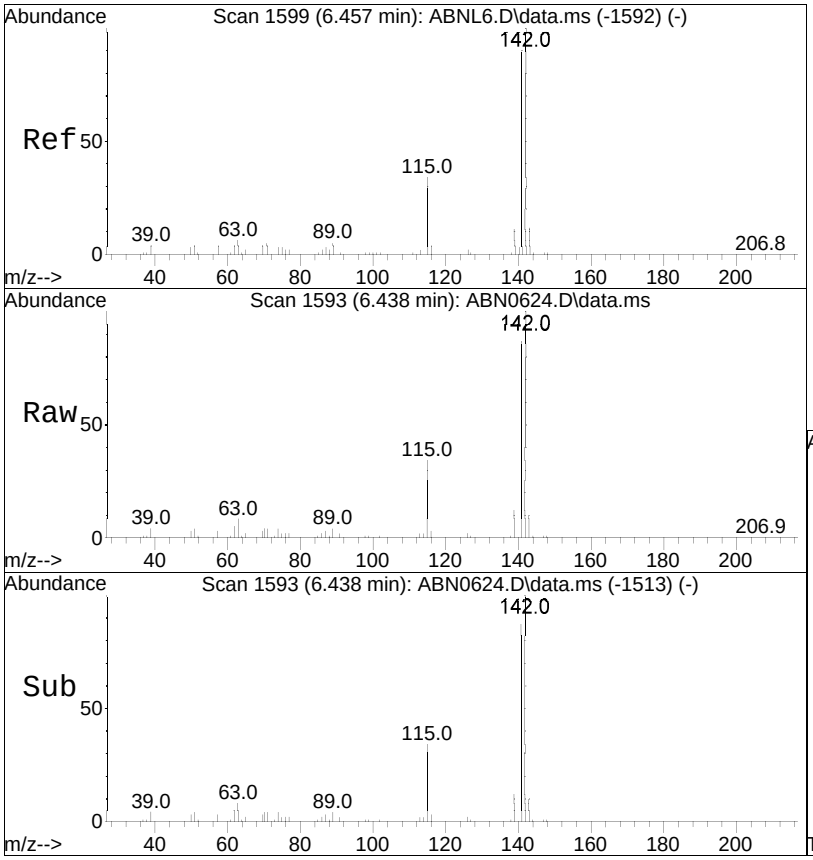


#40
p-Chloro-m-cresol
Concen: 5.13 ug/ml
RT: 6.332 min Scan# 1559
Delta R.T. 0.000 min
Lab File: ABN0624.D
Acq: 24 Jun 2024 2:00 pm

Tgt Ion:107 Resp: 34330

Ion	Ratio	Lower	Upper
107	100		
144	29.6	20.9	31.3
142	89.5	66.1	99.1

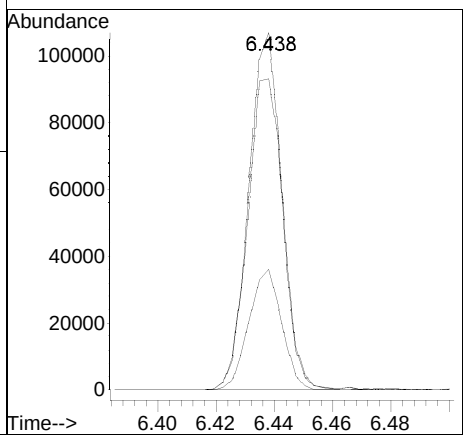


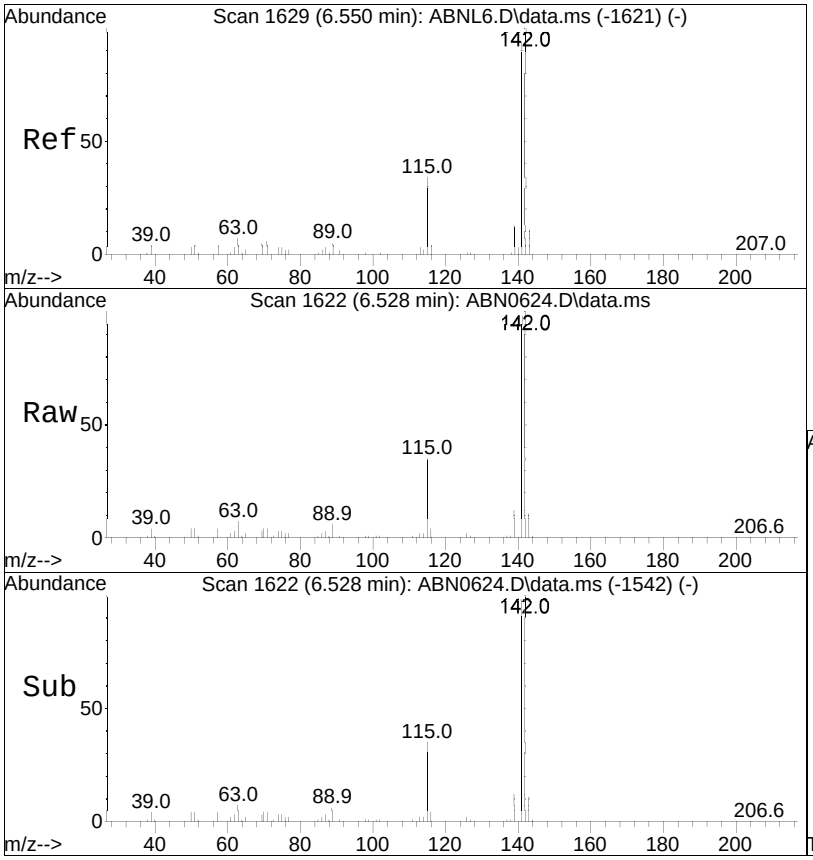


#41
2-Methylnaphthalene
Concen: 4.94 ug/ml
RT: 6.438 min Scan# 1593
Delta R.T. 0.000 min
Lab File: ABN0624.D
Acq: 24 Jun 2024 2:00 pm

Tgt Ion:142 Resp: 85150

Ion	Ratio	Lower	Upper
142	100		
141	91.7	69.6	104.4
115	33.4	26.6	40.0

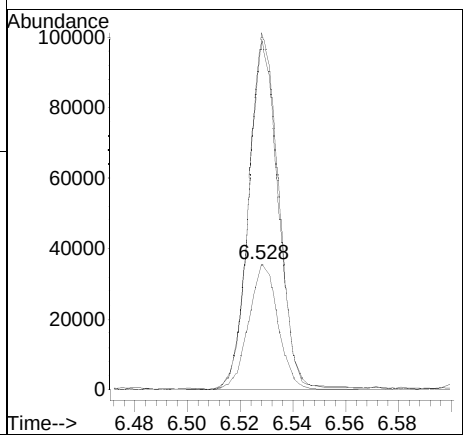


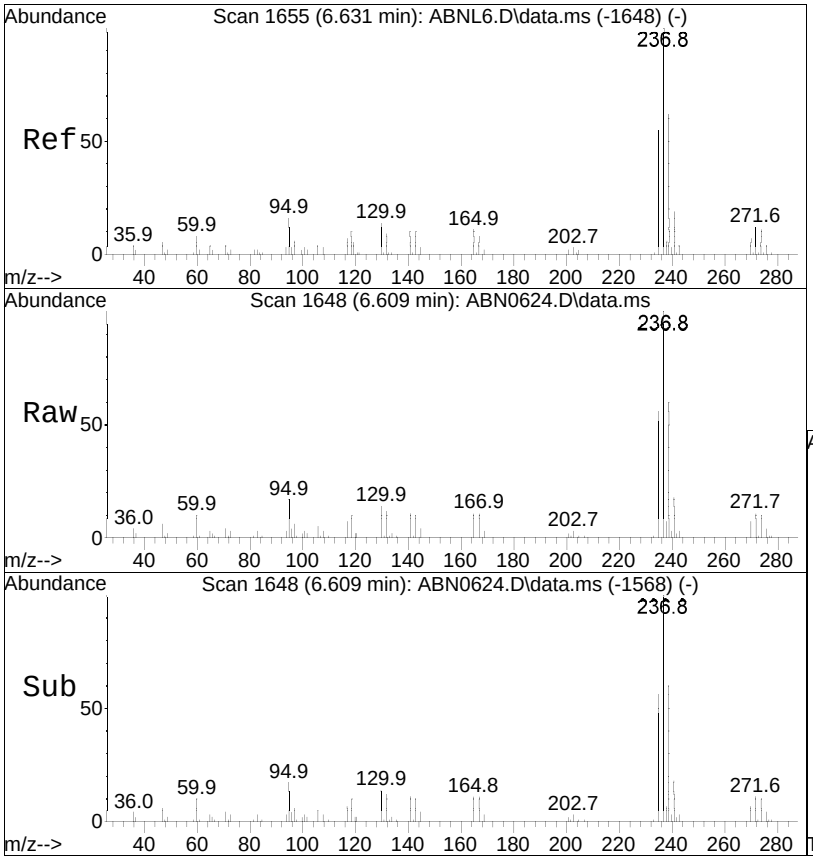


#42
1-Methylnaphthalene
Concen: 4.95 ug/ml
RT: 6.528 min Scan# 1622
Delta R.T. 0.000 min
Lab File: ABN0624.D
Acq: 24 Jun 2024 2:00 pm

Tgt Ion:115 Resp: 27967

Ion	Ratio	Lower	Upper
115	100		
141	272.3	207.8	311.6
142	285.8	226.8	340.2

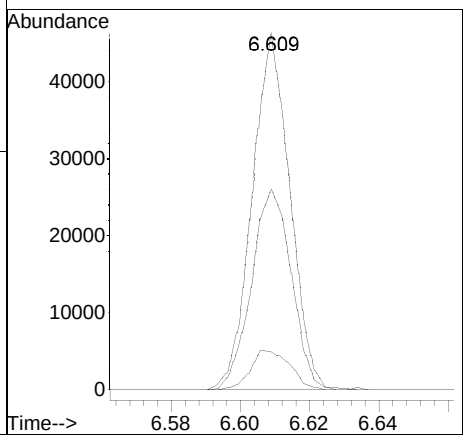


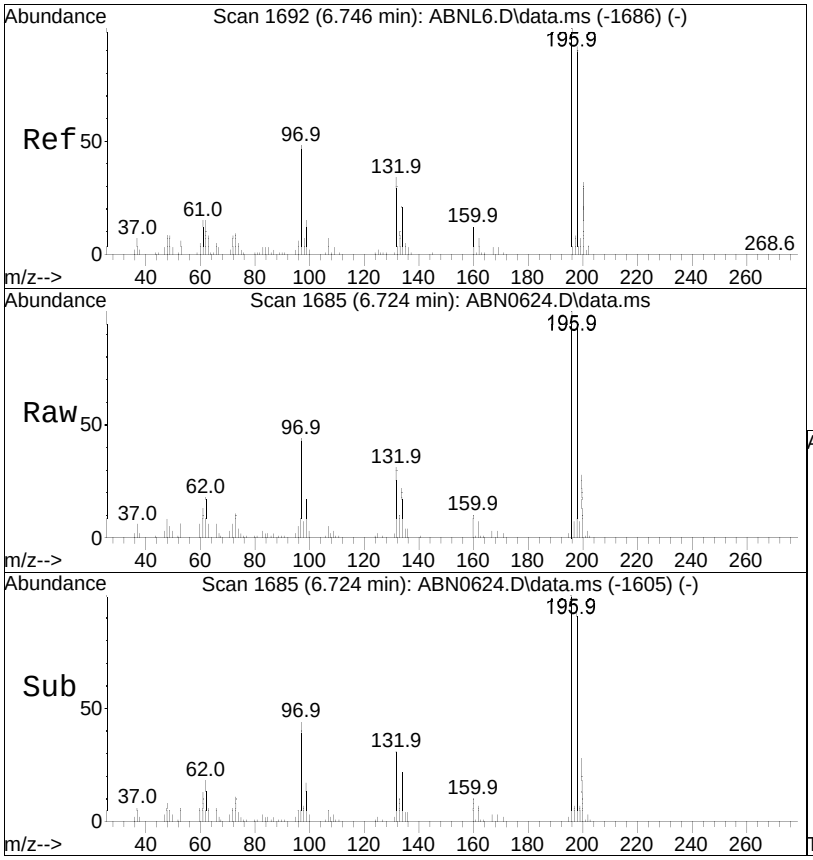


#43
Hexachlorocyclopentadiene
Concen: 5.23 ug/ml
RT: 6.609 min Scan# 1648
Delta R.T. 0.000 min
Lab File: ABN0624.D
Acq: 24 Jun 2024 2:00 pm

Tgt Ion:237 Resp: 34913

Ion	Ratio	Lower	Upper
237	100		
235	59.6	49.7	74.5
272	11.8	9.8	14.6

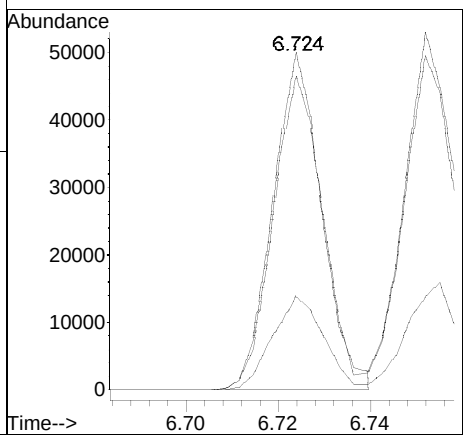


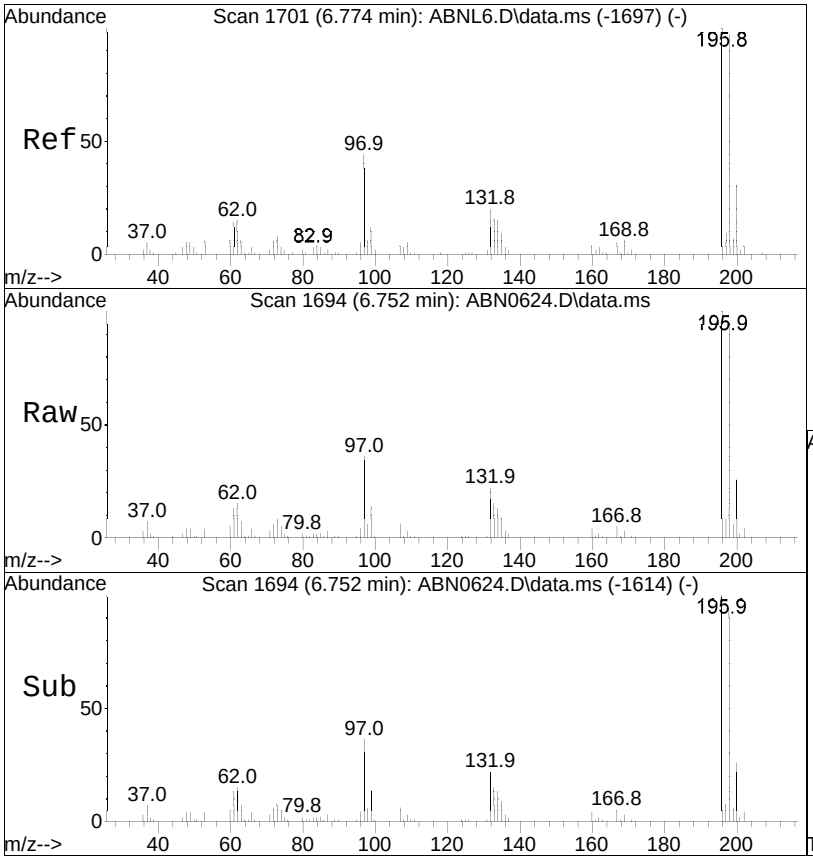


#44
2,4,6-Trichlorophenol
Concen: 5.40 ug/ml
RT: 6.724 min Scan# 1685
Delta R.T. 0.000 min
Lab File: ABN0624.D
Acq: 24 Jun 2024 2:00 pm

Tgt Ion:196 Resp: 36781

Ion	Ratio	Lower	Upper
196	100		
198	93.9	77.5	116.3
200	29.3	23.8	35.6

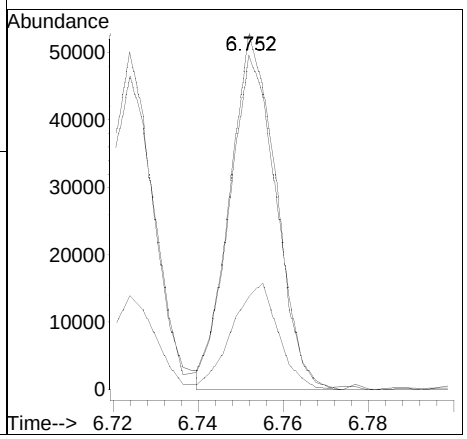


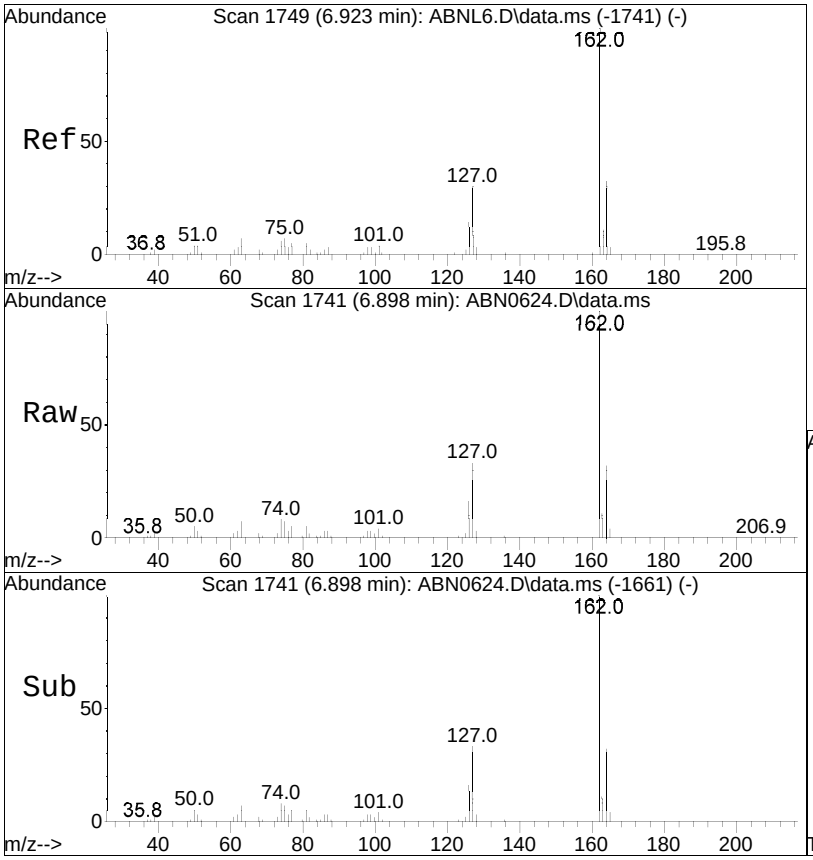


#45
2,4,5-Trichlorophenol
Concen: 5.48 ug/ml
RT: 6.752 min Scan# 1694
Delta R.T. 0.000 min
Lab File: ABN0624.D
Acq: 24 Jun 2024 2:00 pm

Tgt Ion:196 Resp: 39940

Ion	Ratio	Lower	Upper
196	100		
200	29.9	25.4	38.0
198	96.6	78.0	117.0

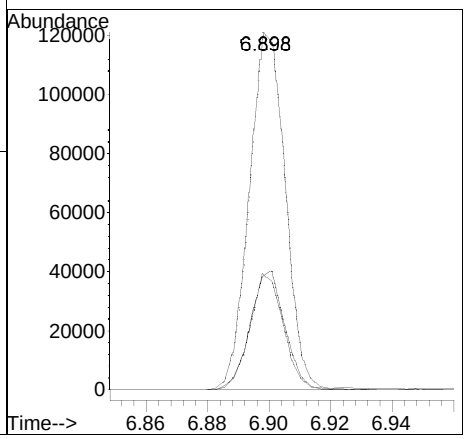


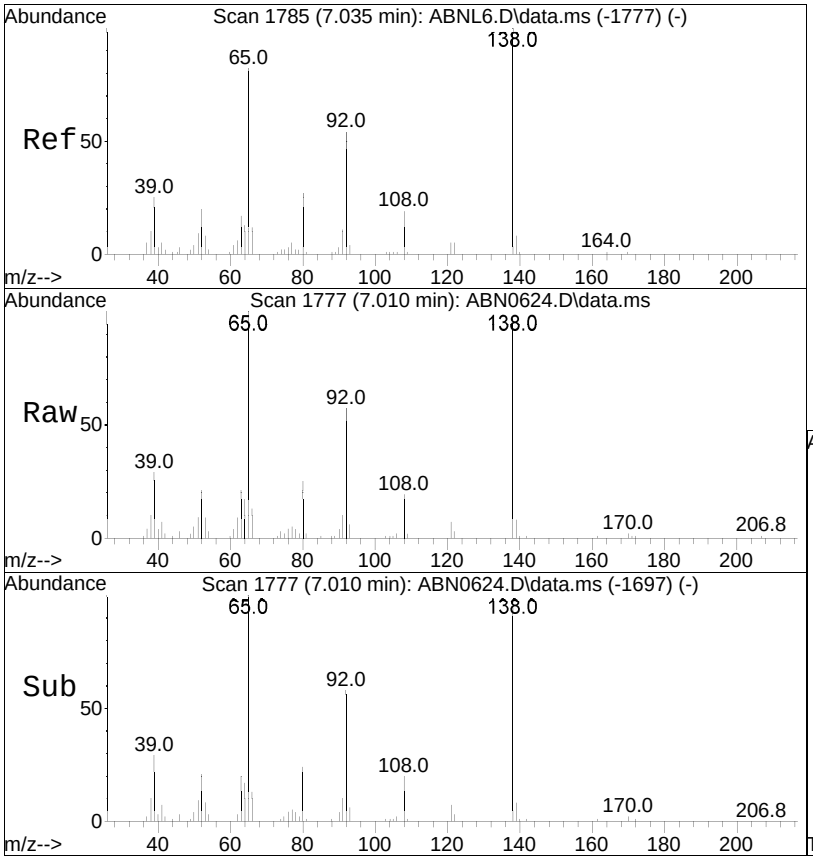


#47
2-Chloronaphthalene
Concen: 5.12 ug/ml
RT: 6.898 min Scan# 1741
Delta R.T. 0.000 min
Lab File: ABN0624.D
Acq: 24 Jun 2024 2:00 pm

Tgt Ion:162 Resp: 97895

Ion	Ratio	Lower	Upper
162	100		
127	30.6	32.2	48.4#
164	32.0	25.7	38.5

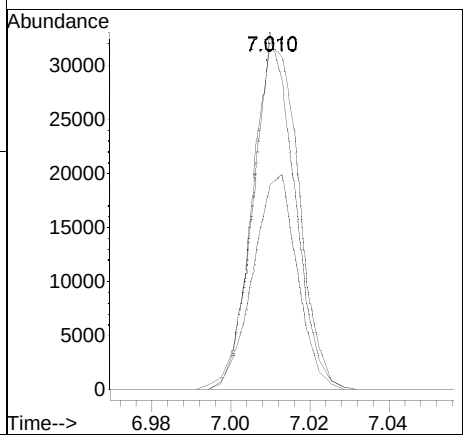


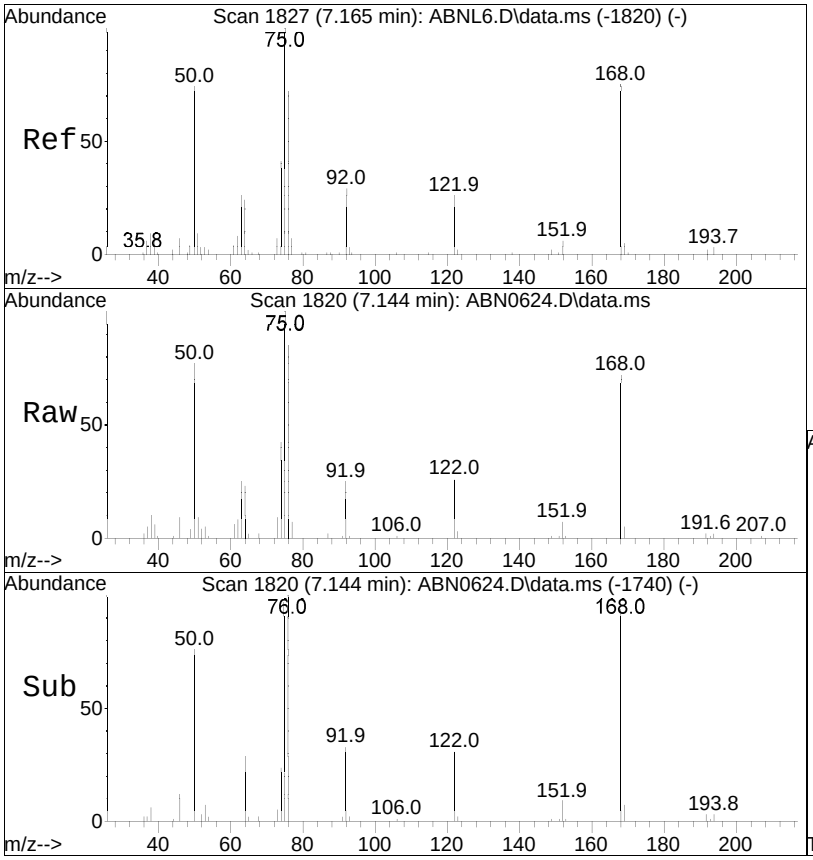


#48
2-Nitroaniline
Concen: 5.07 ug/ml
RT: 7.010 min Scan# 1777
Delta R.T. 0.000 min
Lab File: ABN0624.D
Acq: 24 Jun 2024 2:00 pm

Tgt Ion:138 Resp: 25832

Ion	Ratio	Lower	Upper
138	100		
92	59.5	53.5	80.3
65	92.1	86.3	129.5

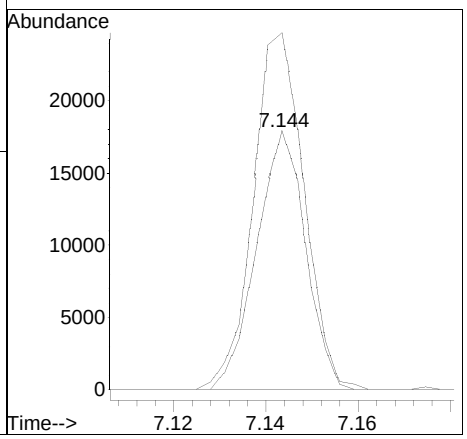


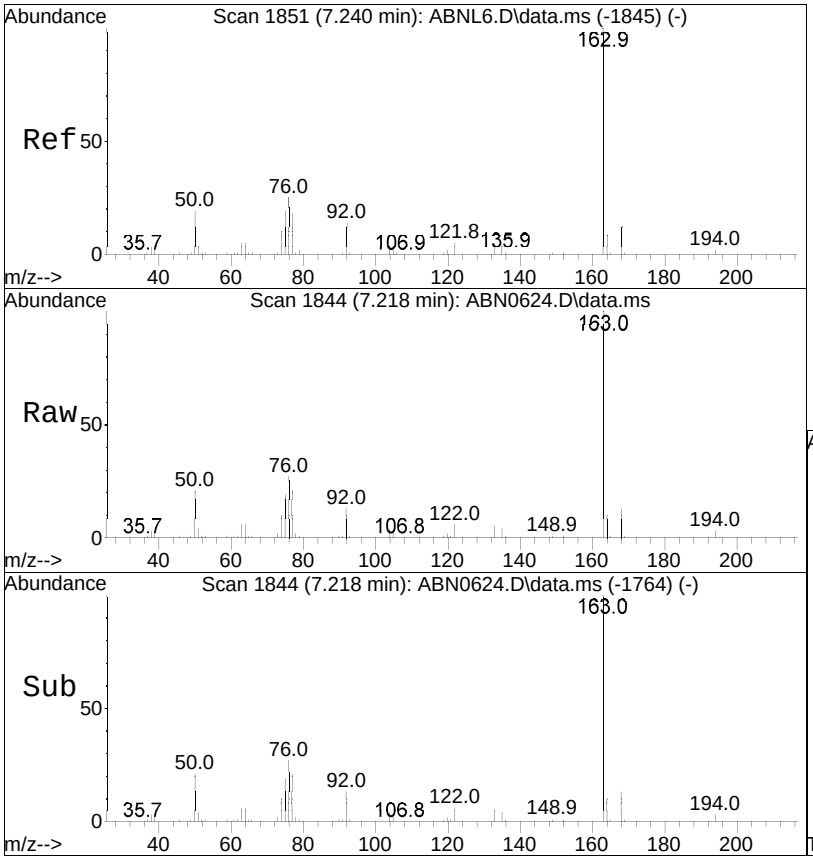


#49
1,4-Dinitrobenzene
Concen: 4.89 ug/ml
RT: 7.144 min Scan# 1820
Delta R.T. 0.000 min
Lab File: ABN0624.D
Acq: 24 Jun 2024 2:00 pm

Tgt Ion:168 Resp: 13229

Ion	Ratio	Lower	Upper
168	100		
75	142.9	121.8	182.8

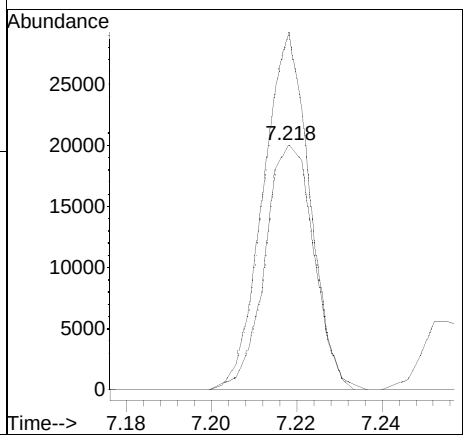


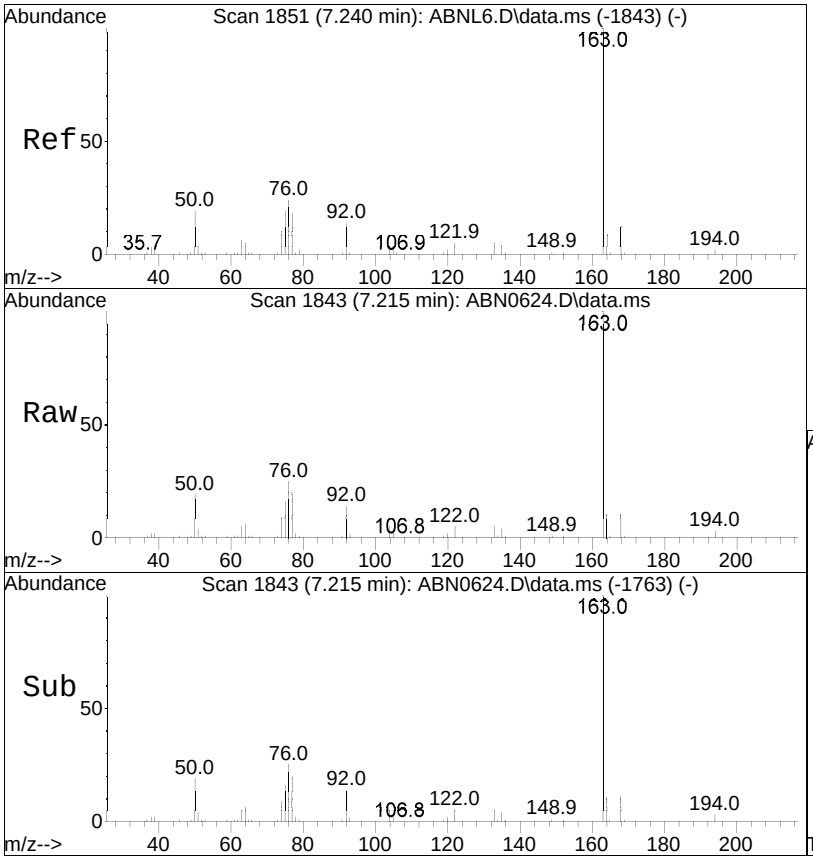


#50
1,3-Dinitrobenzene
Concen: 5.43 ug/ml
RT: 7.218 min Scan# 1844
Delta R.T. 0.000 min
Lab File: ABN0624.D
Acq: 24 Jun 2024 2:00 pm

Tgt Ion:168 Resp: 15851

Ion	Ratio	Lower	Upper
168	100		
75	138.8	22.7	34.1#

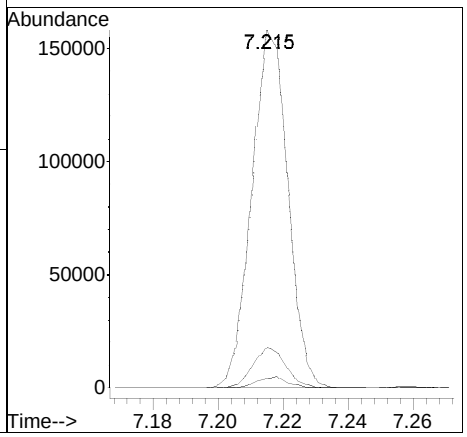


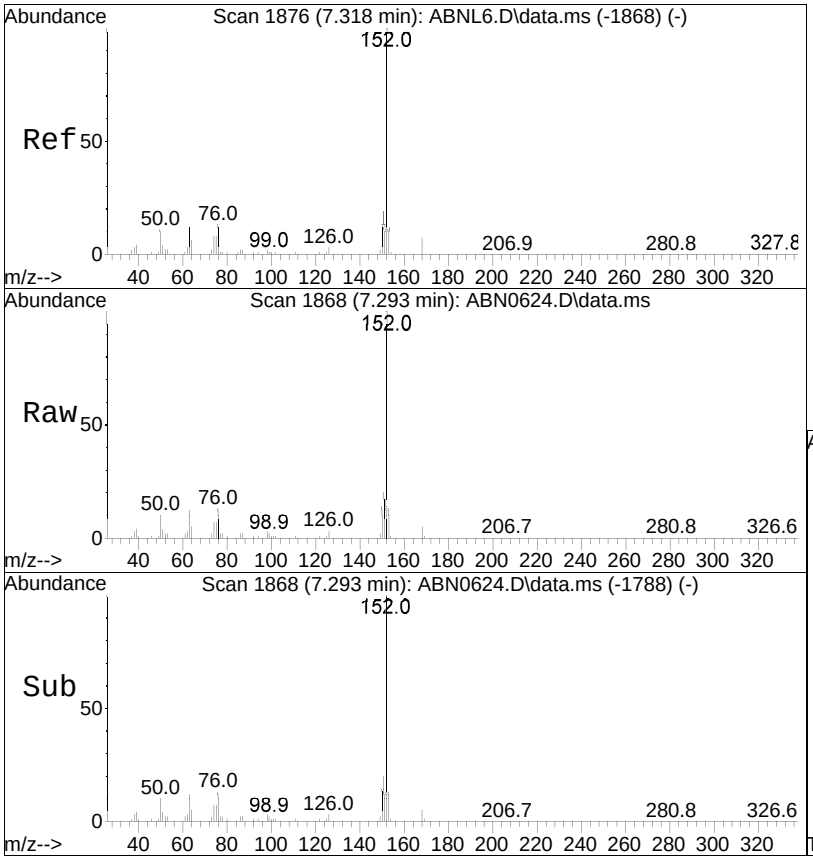


#51
Dimethyl phthalate
Concen: 5.09 ug/ml
RT: 7.215 min Scan# 1843
Delta R.T. 0.000 min
Lab File: ABN0624.D
Acq: 24 Jun 2024 2:00 pm

Tgt Ion:163 Resp: 121068

Ion	Ratio	Lower	Upper
163	100		
194	2.7	3.5	5.3#
164	10.4	7.9	11.9

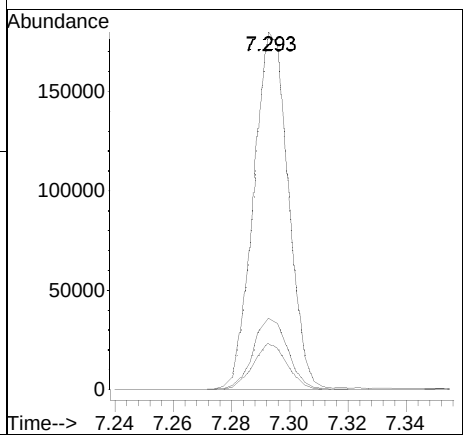


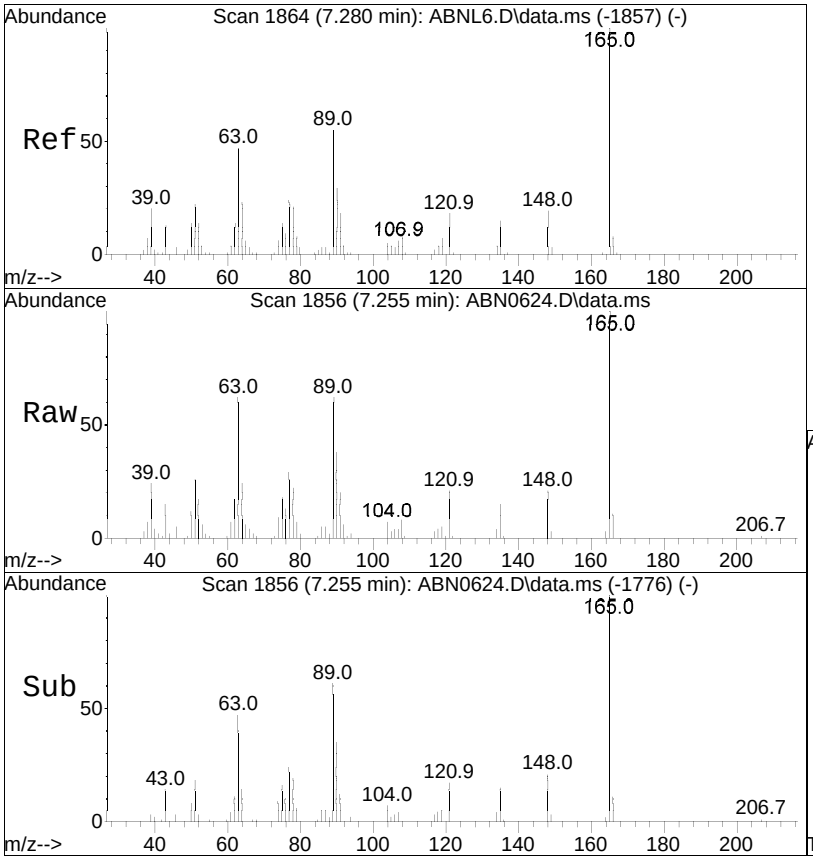


#52
Acenaphthylene
Concen: 5.17 ug/ml
RT: 7.293 min Scan# 1868
Delta R.T. 0.000 min
Lab File: ABN0624.D
Acq: 24 Jun 2024 2:00 pm

Tgt Ion:152 Resp: 147639

Ion	Ratio	Lower	Upper
152	100		
151	20.0	15.8	23.6
153	12.7	10.5	15.7

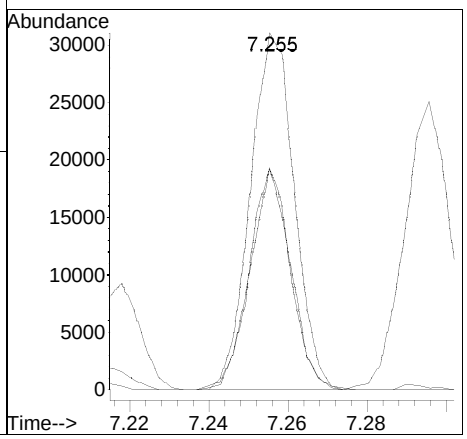


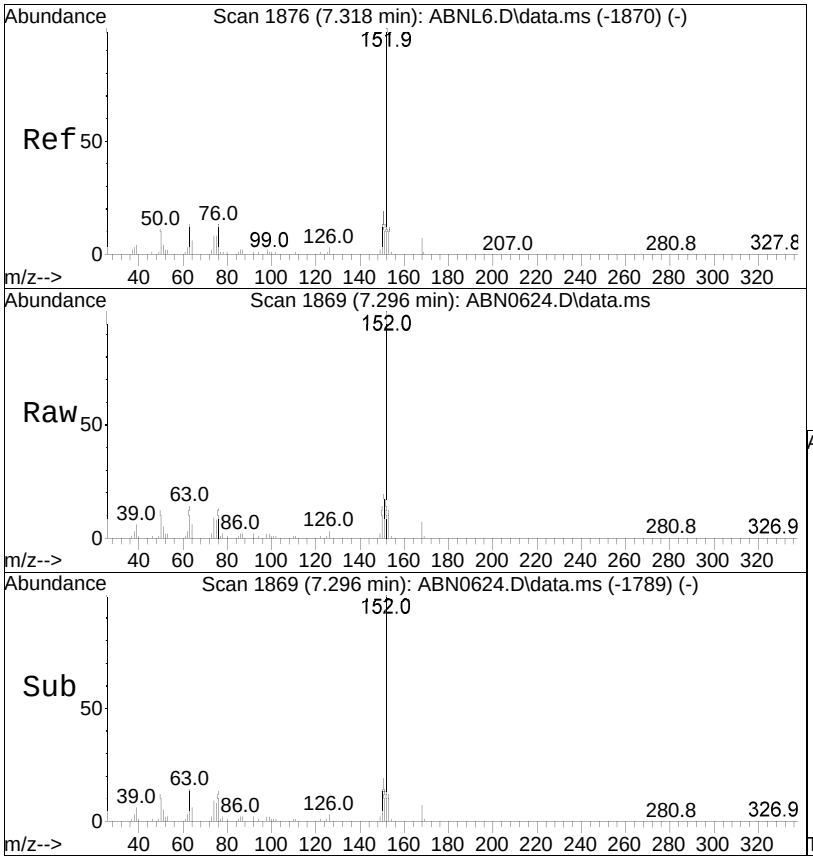


#53
2,6-Dinitrotoluene
Concen: 5.12 ug/ml
RT: 7.255 min Scan# 1856
Delta R.T. 0.000 min
Lab File: ABN0624.D
Acq: 24 Jun 2024 2:00 pm

Tgt Ion:165 Resp: 24030

Ion	Ratio	Lower	Upper
165	100		
89	56.9	54.2	81.2
63	58.3	64.2	96.2#

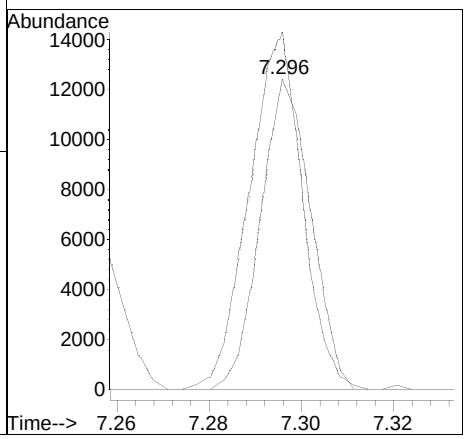


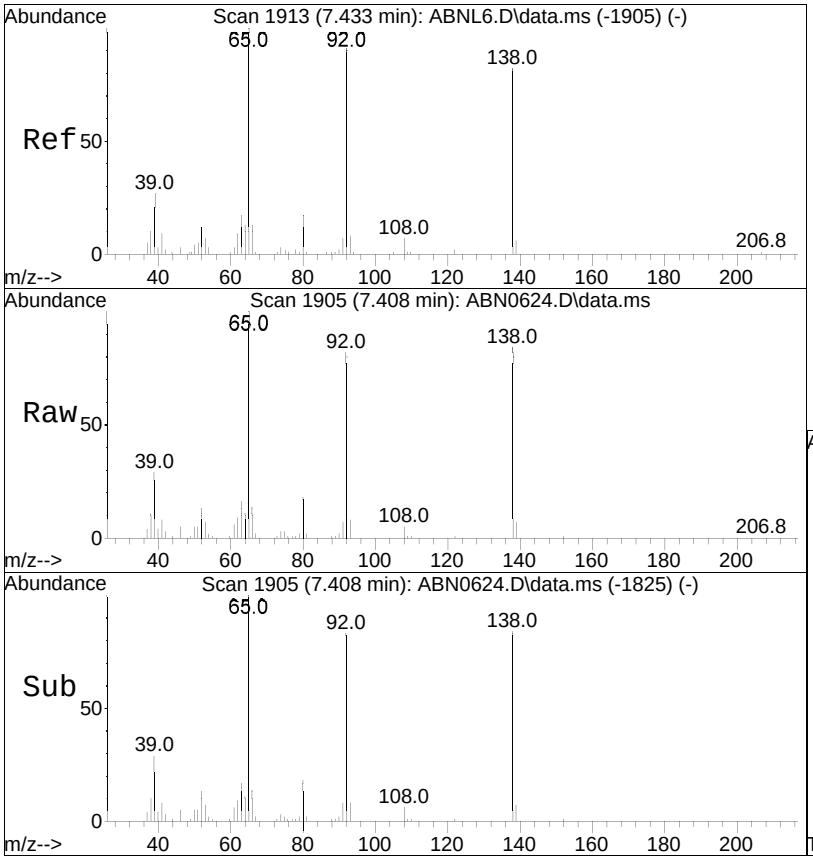


#54
1,2-Dinitrobenzene
Concen: 5.51 ug/ml
RT: 7.296 min Scan# 1869
Delta R.T. 0.000 min
Lab File: ABN0624.D
Acq: 24 Jun 2024 2:00 pm

Tgt Ion:168 Resp: 9401

Ion	Ratio	Lower	Upper
168	100		
75	121.4	30.9	46.3#

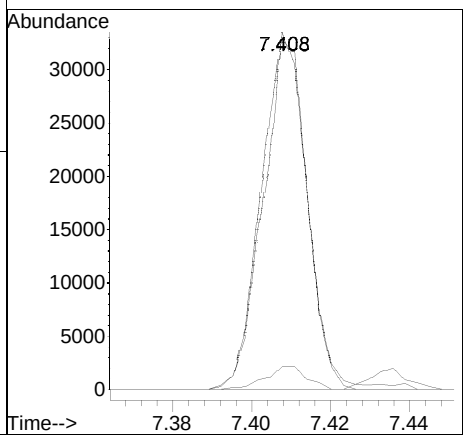


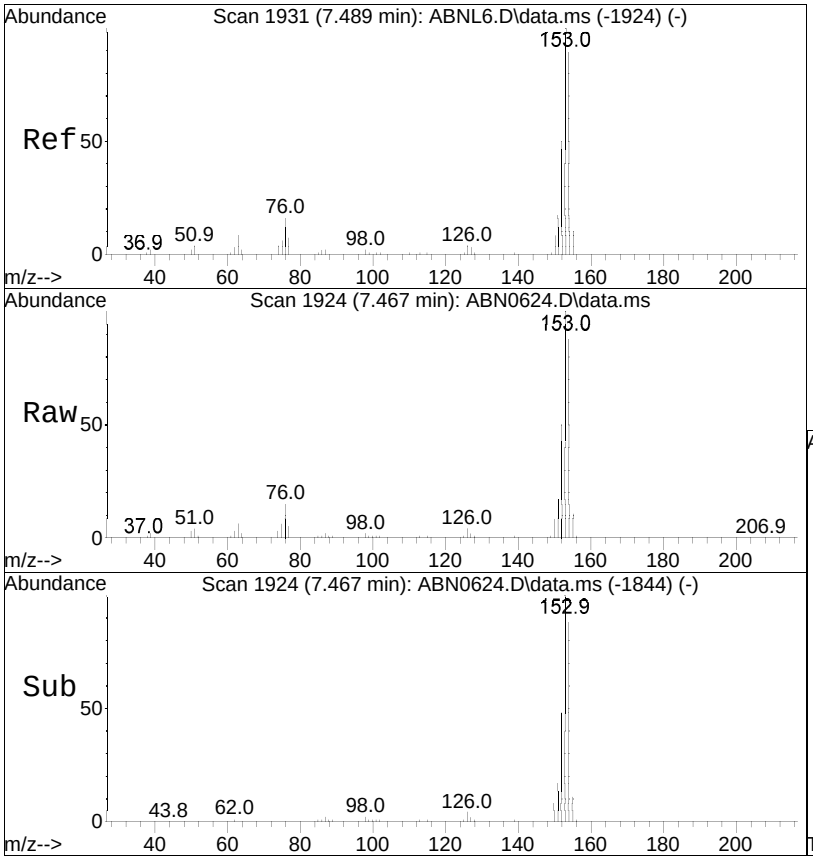


#64
3-Nitroaniline
Concen: 4.88 ug/ml
RT: 7.408 min Scan# 1905
Delta R.T. 0.000 min
Lab File: ABN0624.D
Acq: 24 Jun 2024 2:00 pm

Tgt Ion:138 Resp: 25023

Ion	Ratio	Lower	Upper
138	100		
92	106.6	93.4	140.2
108	6.2	9.5	14.3#

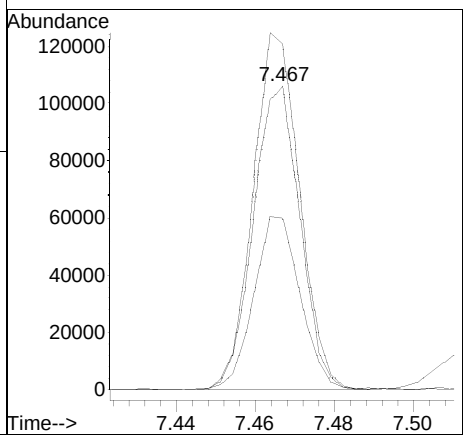


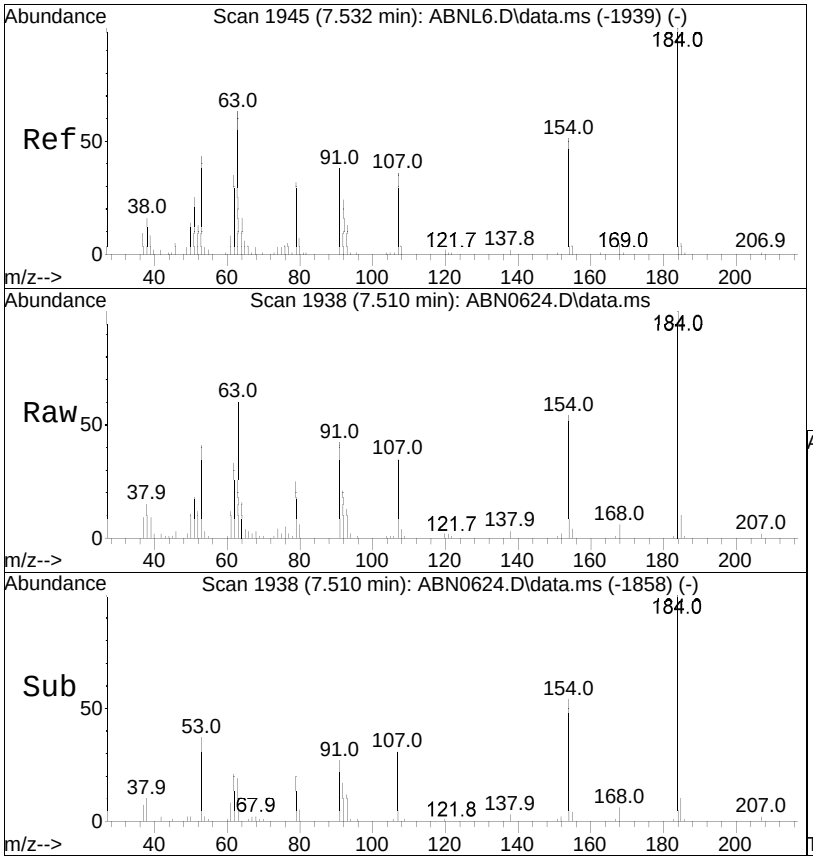


#65
Acenaphthene
Concen: 4.65 ug/ml
RT: 7.467 min Scan# 1924
Delta R.T. 0.000 min
Lab File: ABN0624.D
Acq: 24 Jun 2024 2:00 pm

Tgt Ion:154 Resp: 86985

Ion	Ratio	Lower	Upper
154	100		
153	117.5	85.3	127.9
152	57.2	41.4	62.0

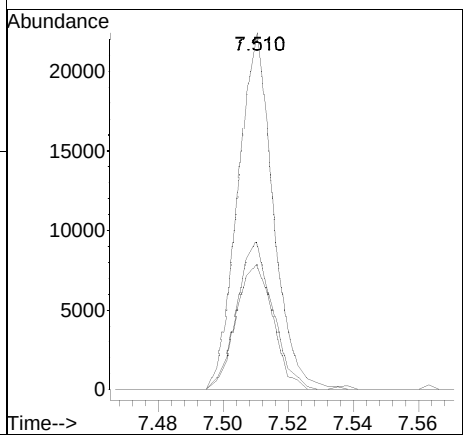


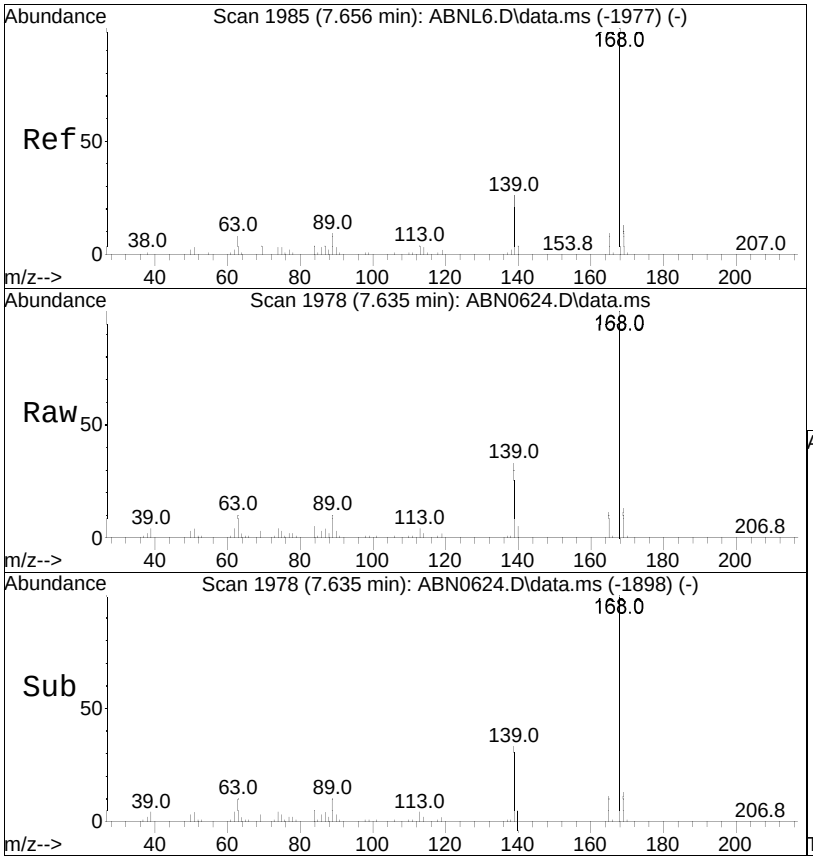


#66
2,4-Dinitrophenol
Concen: 4.57 ug/ml
RT: 7.510 min Scan# 1938
Delta R.T. 0.000 min
Lab File: ABN0624.D
Acq: 24 Jun 2024 2:00 pm

Tgt Ion:184 Resp: 16853

Ion	Ratio	Lower	Upper
184	100		
107	36.6	37.7	56.5#
91	42.1	46.3	69.5#

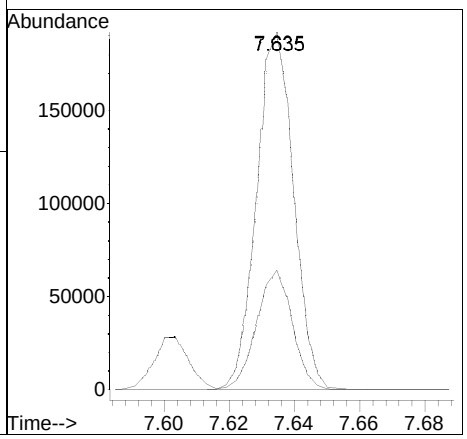


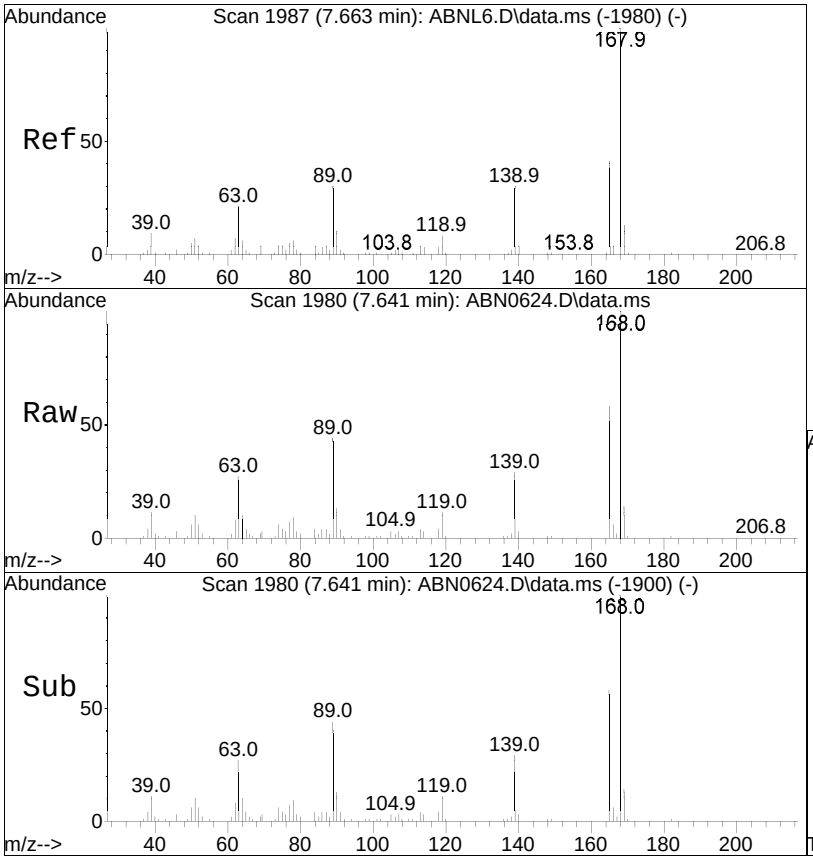


#67
Dibenzofuran
Concen: 4.57 ug/ml
RT: 7.635 min Scan# 1978
Delta R.T. 0.000 min
Lab File: ABN0624.D
Acq: 24 Jun 2024 2:00 pm

Tgt Ion:168 Resp: 150385

Ion	Ratio	Lower	Upper
168	100		
139	32.5	31.4	47.2

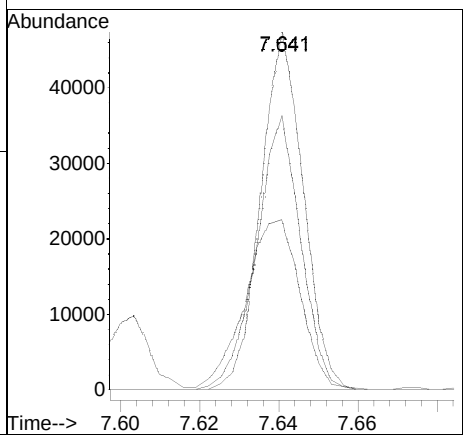


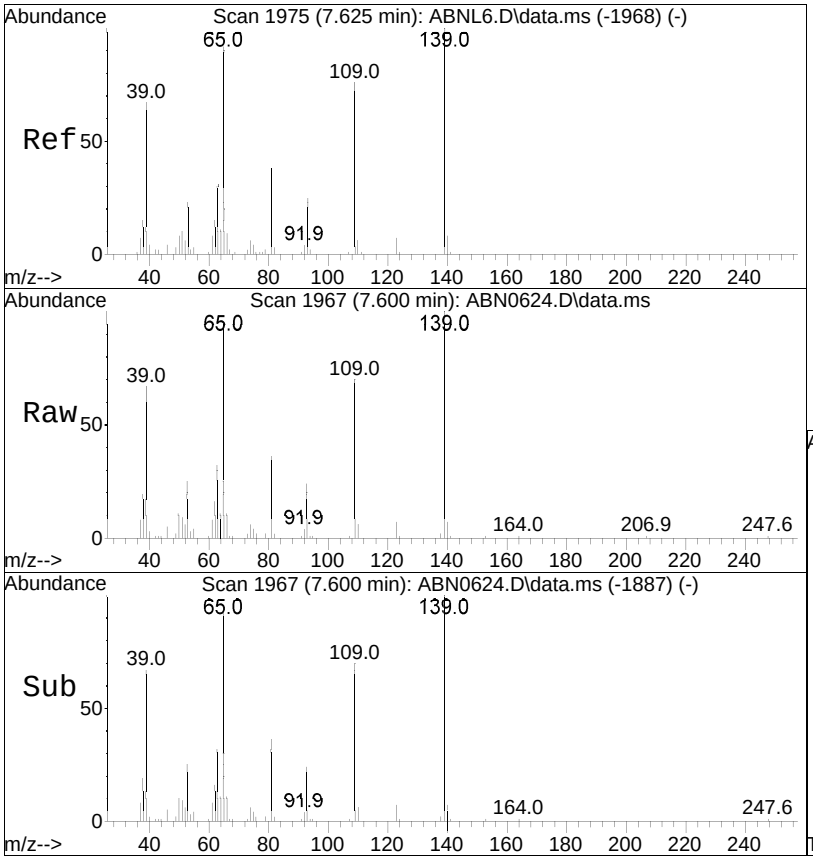


#68
2,4-Dinitrotoluene
Concen: 5.03 ug/ml
RT: 7.641 min Scan# 1980
Delta R.T. 0.000 min
Lab File: ABN0624.D
Acq: 24 Jun 2024 2:00 pm

Tgt Ion:165 Resp: 35119

Ion	Ratio	Lower	Upper
165	100		
89	79.7	72.0	108.0
63	61.8	52.7	79.1

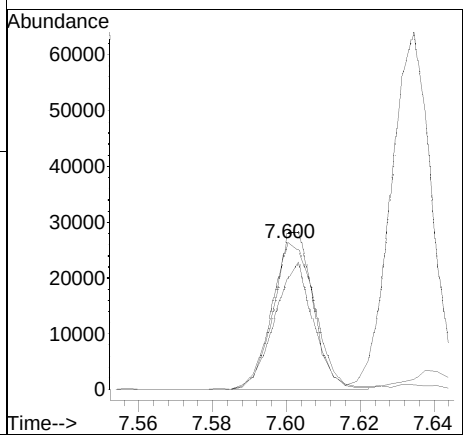


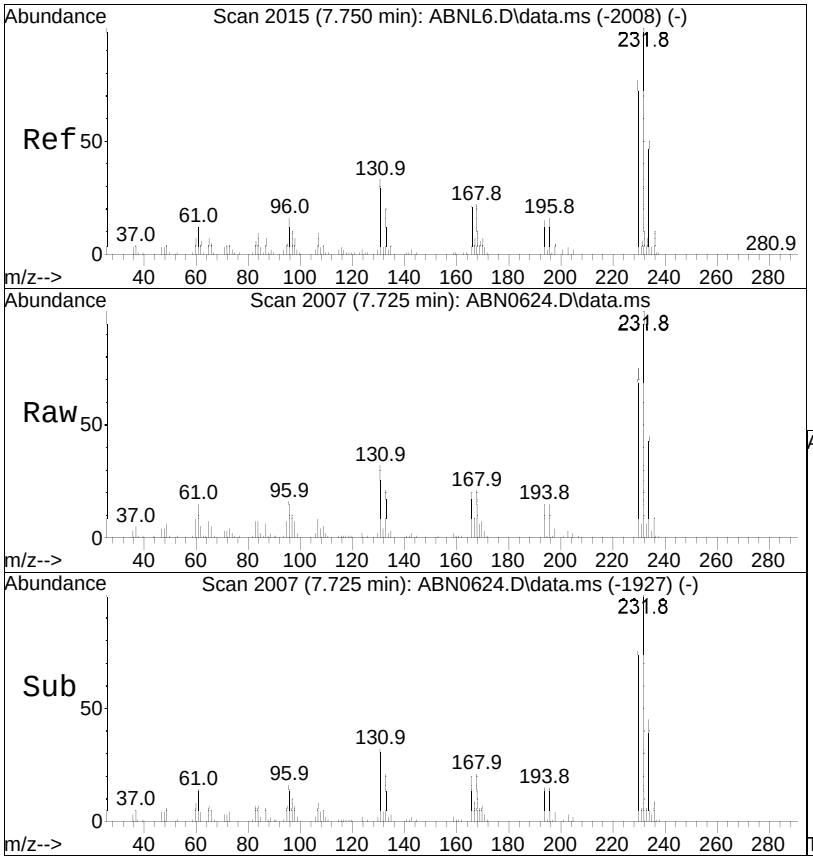


#69
4-Nitrophenol
Concen: 4.79 ug/ml
RT: 7.600 min Scan# 1967
Delta R.T. 0.000 min
Lab File: ABN0624.D
Acq: 24 Jun 2024 2:00 pm

Tgt Ion: 65 Resp: 20584

Ion	Ratio	Lower	Upper
65	100		
109	82.0	47.4	71.2#
139	104.1	76.6	115.0

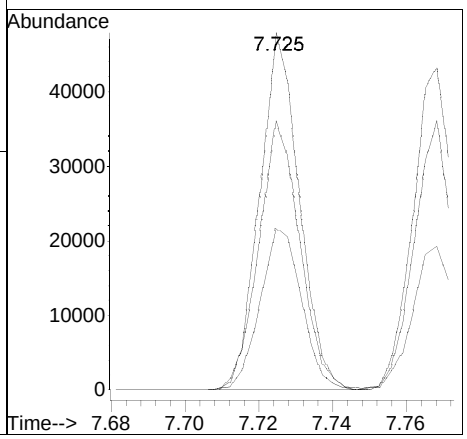


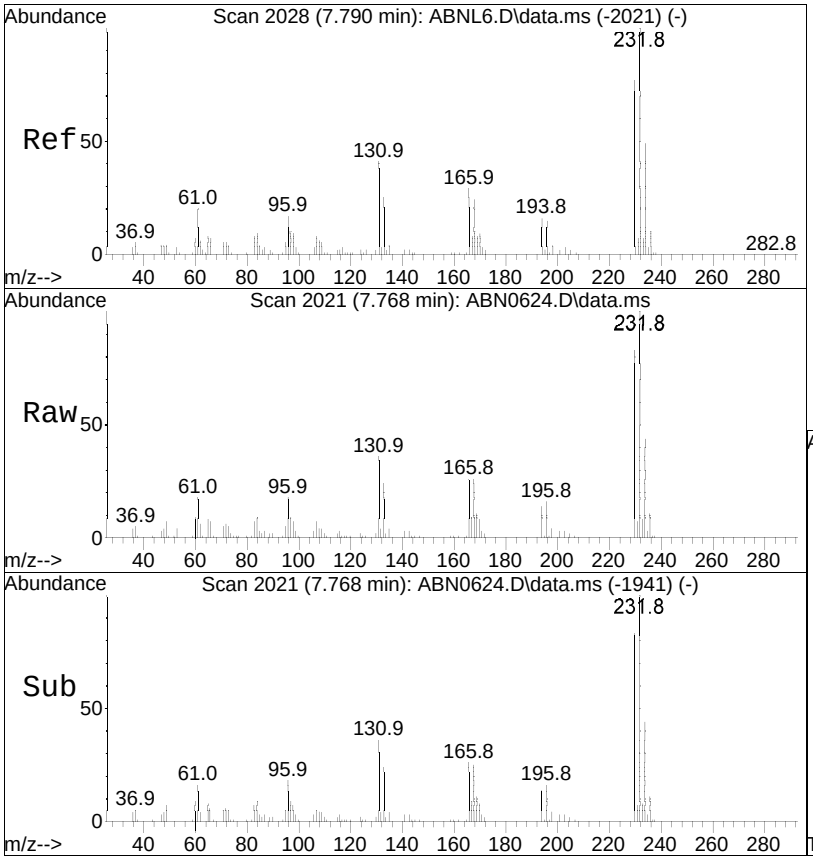


#70
2,3,5,6-Tetrachlorophenol
Concen: 4.85 ug/ml
RT: 7.725 min Scan# 2007
Delta R.T. 0.000 min
Lab File: ABN0624.D
Acq: 24 Jun 2024 2:00 pm

Tgt Ion:232 Resp: 35866

Ion	Ratio	Lower	Upper
232	100		
230	77.8	64.2	96.4
234	47.3	38.1	57.1

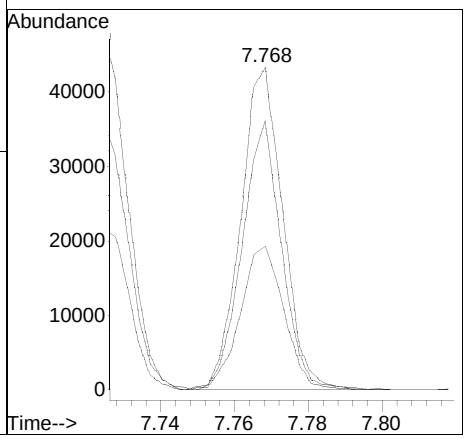


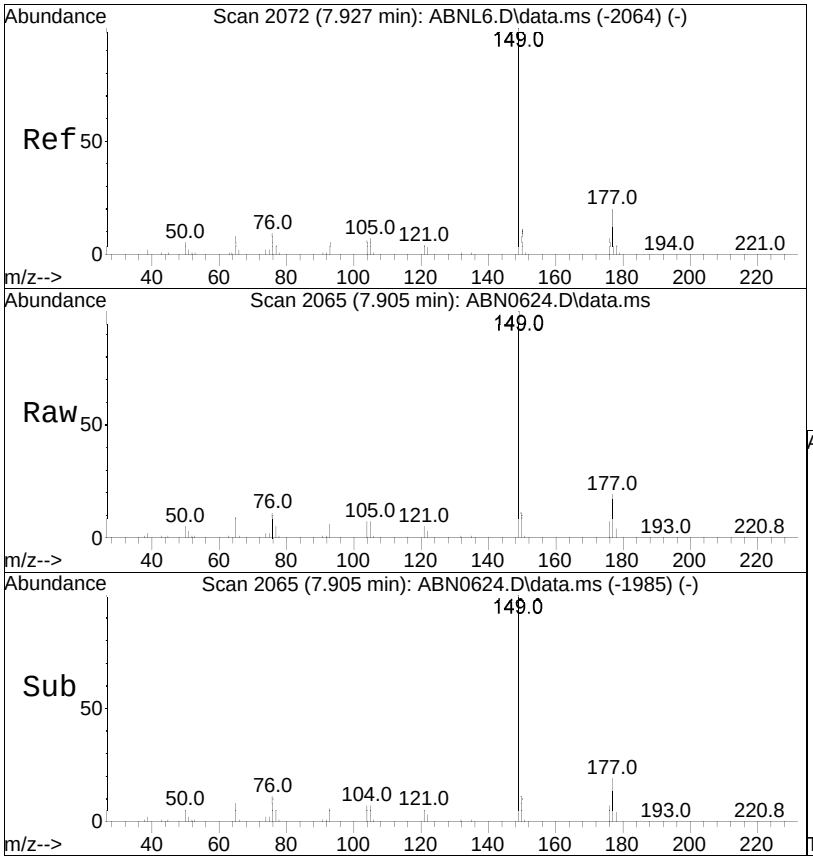


#71
2,3,4,6-Tetrachlorophenol
Concen: 4.94 ug/ml
RT: 7.768 min Scan# 2021
Delta R.T. 0.000 min
Lab File: ABN0624.D
Acq: 24 Jun 2024 2:00 pm

Tgt Ion:232 Resp: 34207

Ion	Ratio	Lower	Upper
232	100		
230	79.0	61.8	92.8
234	46.6	36.2	54.2

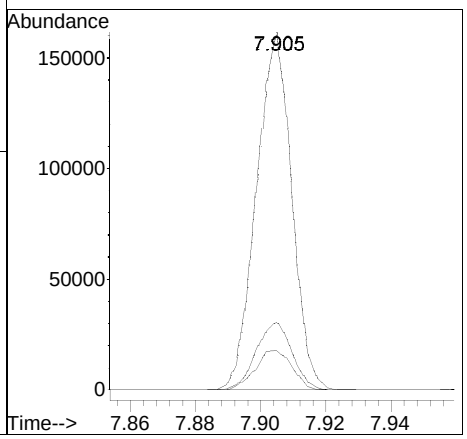


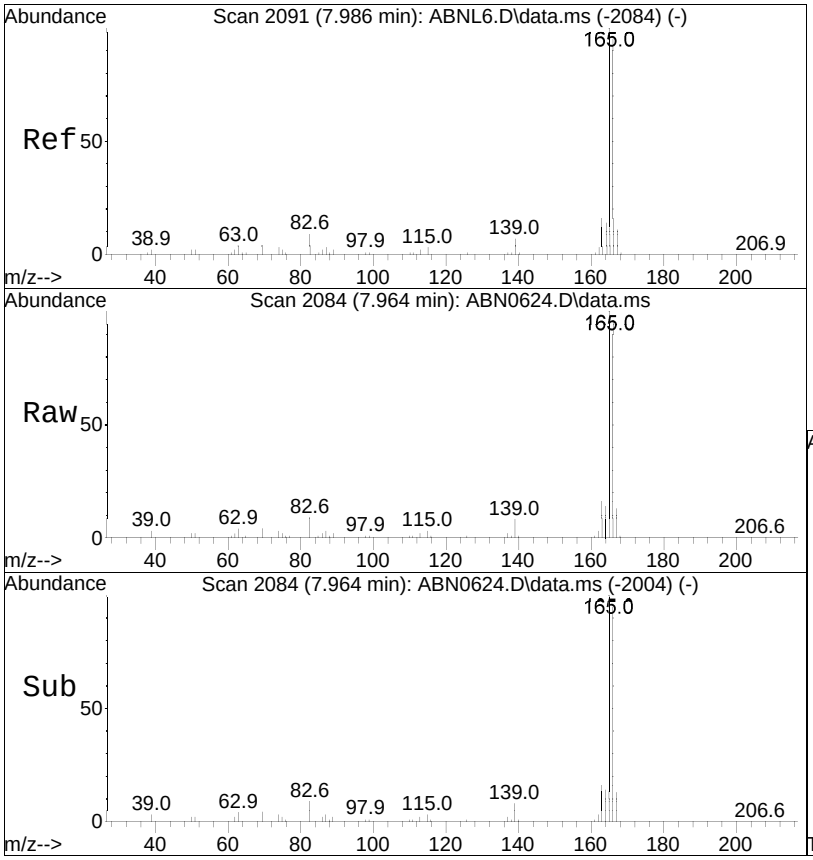


#72
Diethyl phthalate
Concen: 4.49 ug/ml
RT: 7.905 min Scan# 2065
Delta R.T. 0.000 min
Lab File: ABN0624.D
Acq: 24 Jun 2024 2:00 pm

Tgt Ion:149 Resp: 119861

Ion	Ratio	Lower	Upper
149	100		
177	19.4	16.1	24.1
150	11.7	9.4	14.2

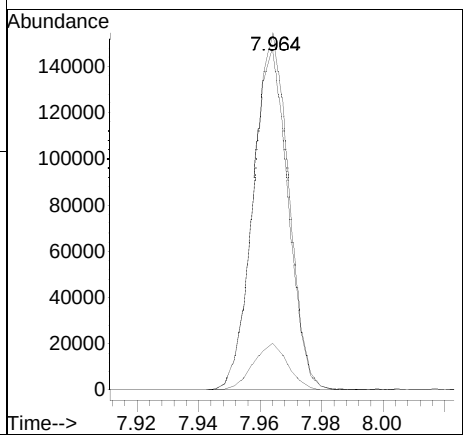


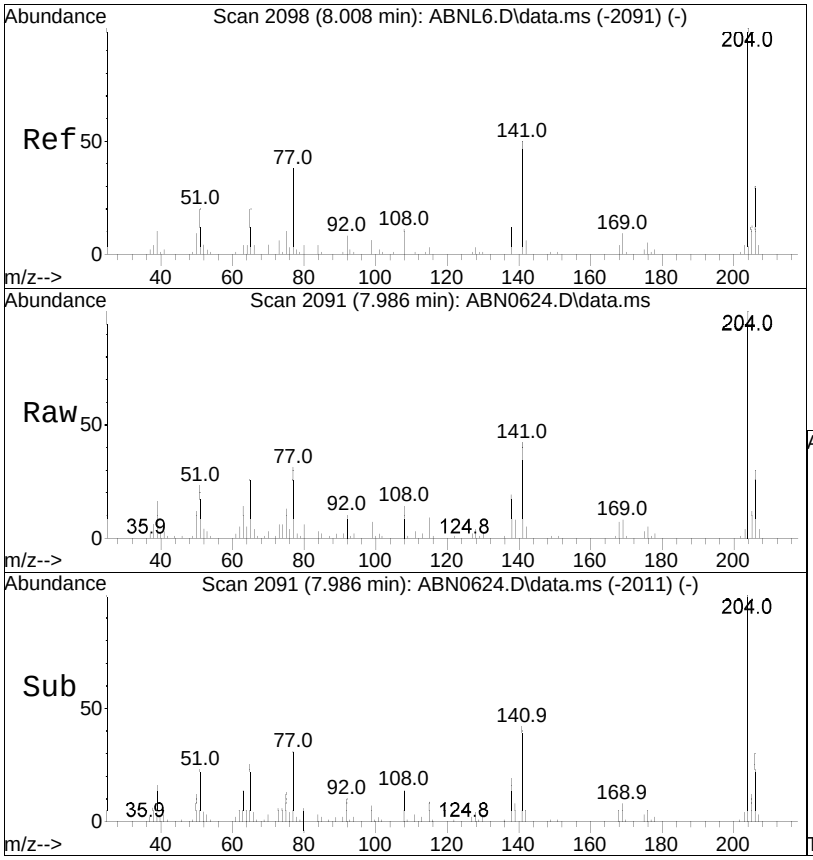


#73
Fluorene
Concen: 4.68 ug/ml
RT: 7.964 min Scan# 2084
Delta R.T. 0.000 min
Lab File: ABN0624.D
Acq: 24 Jun 2024 2:00 pm

Tgt Ion:166 Resp: 117290

Ion	Ratio	Lower	Upper
166	100		
165	105.1	76.2	114.2
167	13.5	10.6	15.8

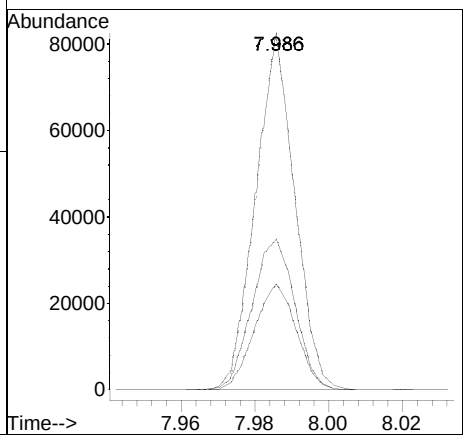


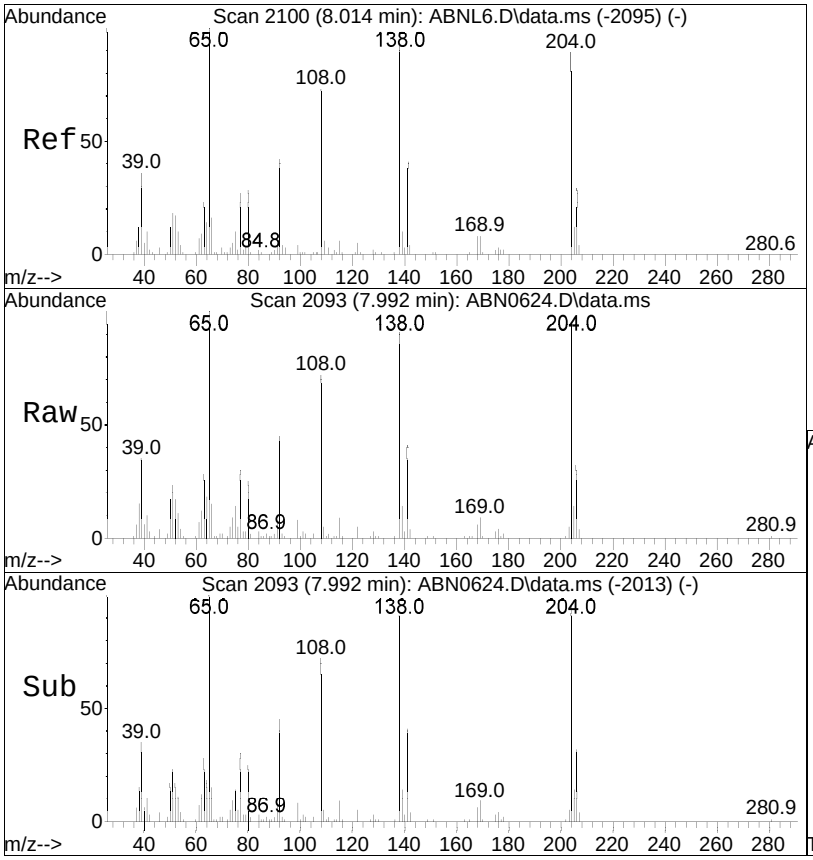


#74
4-Chlorophenyl phenyl ether
Concen: 4.72 ug/ml
RT: 7.986 min Scan# 2091
Delta R.T. 0.000 min
Lab File: ABN0624.D
Acq: 24 Jun 2024 2:00 pm

Tgt Ion:204 Resp: 60173

Ion	Ratio	Lower	Upper
204	100		
206	32.2	25.8	38.6
141	46.5	53.6	80.4#

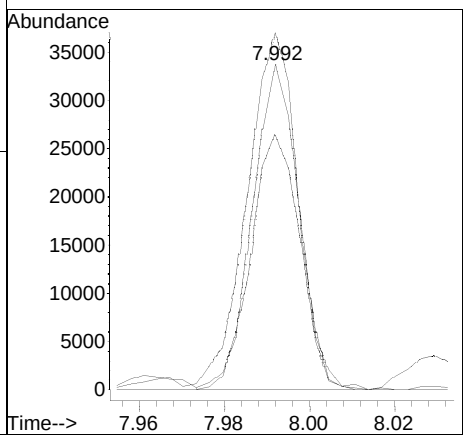


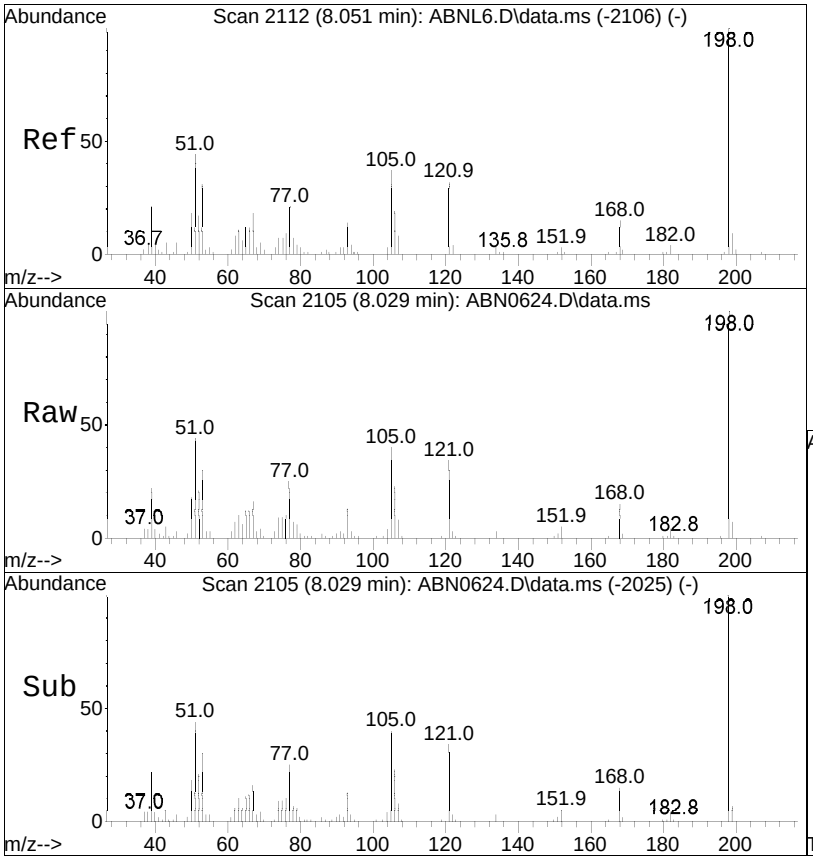


#75
4-Nitroaniline
Concen: 5.04 ug/ml
RT: 7.992 min Scan# 2093
Delta R.T. 0.000 min
Lab File: ABN0624.D
Acq: 24 Jun 2024 2:00 pm

Tgt Ion:138 Resp: 25472

Ion	Ratio	Lower	Upper
138	100		
108	83.2	52.1	78.1#
65	120.0	115.0	172.6

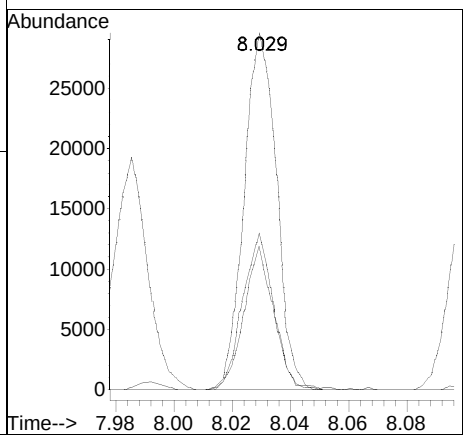


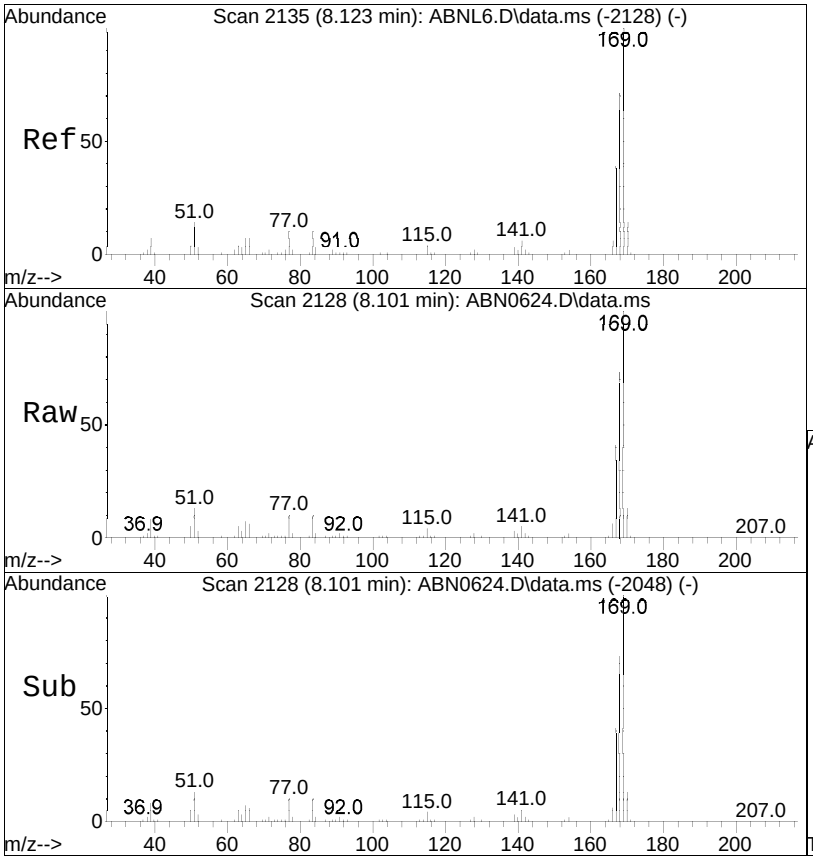


#76
4,6-Dinitro-o-cresol
Concen: 5.20 ug/ml
RT: 8.029 min Scan# 2105
Delta R.T. 0.000 min
Lab File: ABN0624.D
Acq: 24 Jun 2024 2:00 pm

Tgt Ion:198 Resp: 22940

Ion	Ratio	Lower	Upper
198	100		
51	41.6	76.0	114.0#
105	37.2	45.6	68.4#

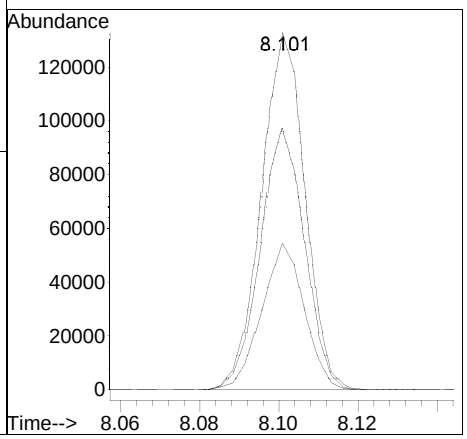


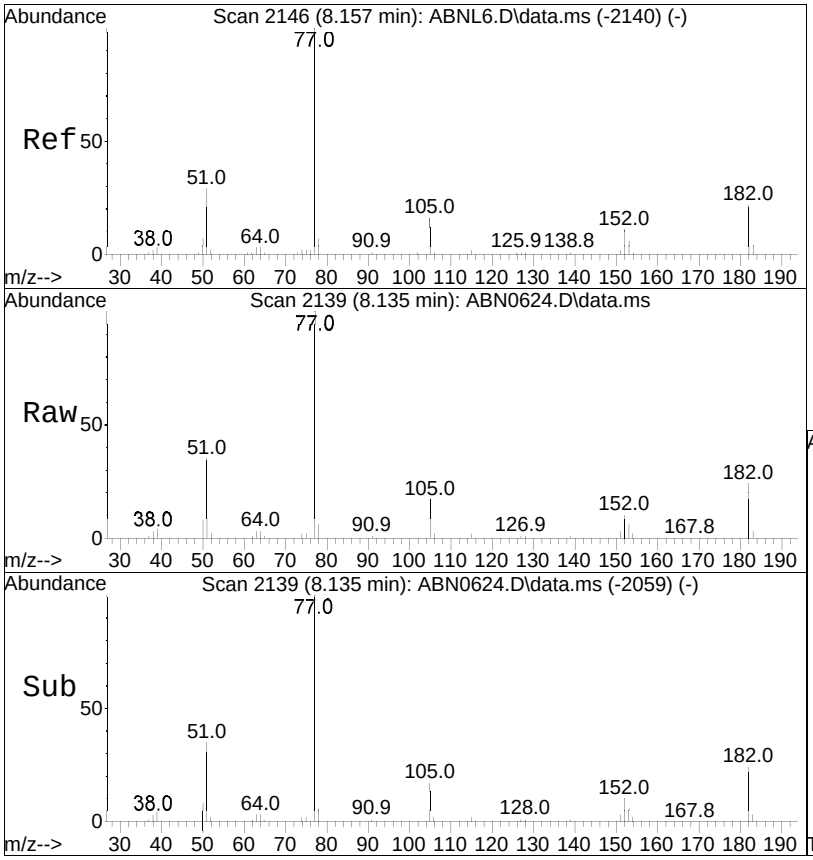


#77
NDPA/DPA
Concen: 4.72 ug/ml
RT: 8.101 min Scan# 2128
Delta R.T. 0.000 min
Lab File: ABN0624.D
Acq: 24 Jun 2024 2:00 pm

Tgt Ion:169 Resp: 101504

Ion	Ratio	Lower	Upper
169	100		
168	74.6	54.0	81.0
167	40.3	28.6	42.8

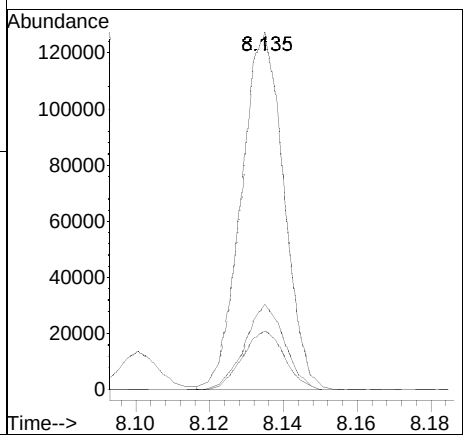


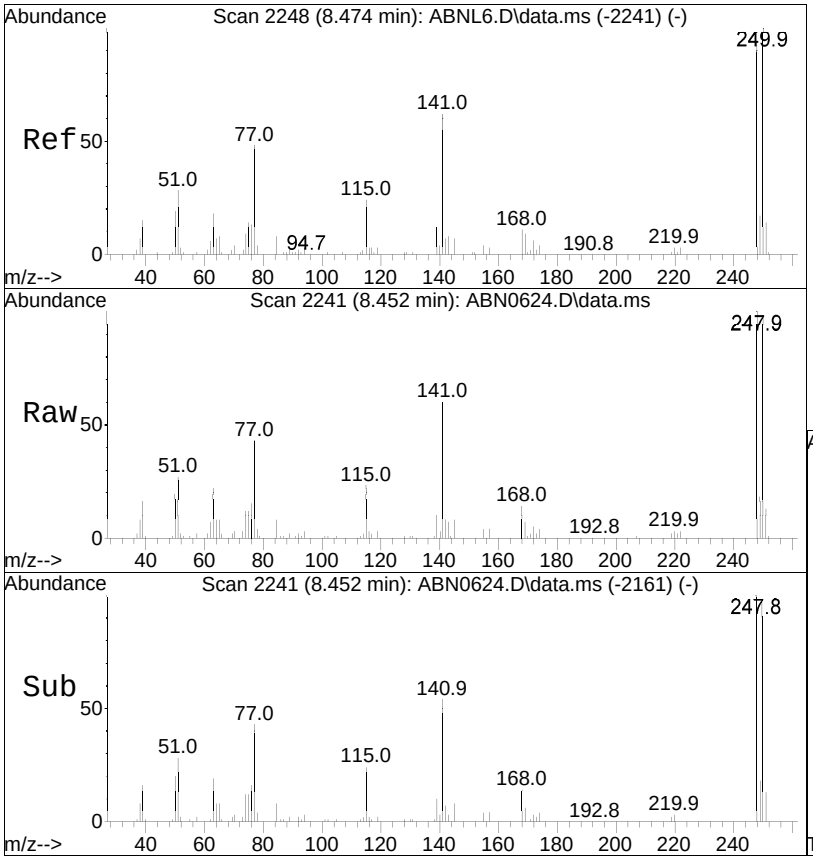


#78
Azobenzene
Concen: 4.67 ug/ml
RT: 8.135 min Scan# 2139
Delta R.T. 0.000 min
Lab File: ABN0624.D
Acq: 24 Jun 2024 2:00 pm

Tgt Ion: 77 Resp: 101145

Ion	Ratio	Lower	Upper
77	100		
182	22.6	17.4	26.2
105	16.5	15.4	23.2

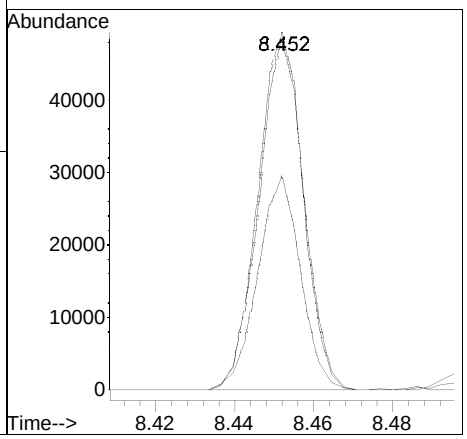


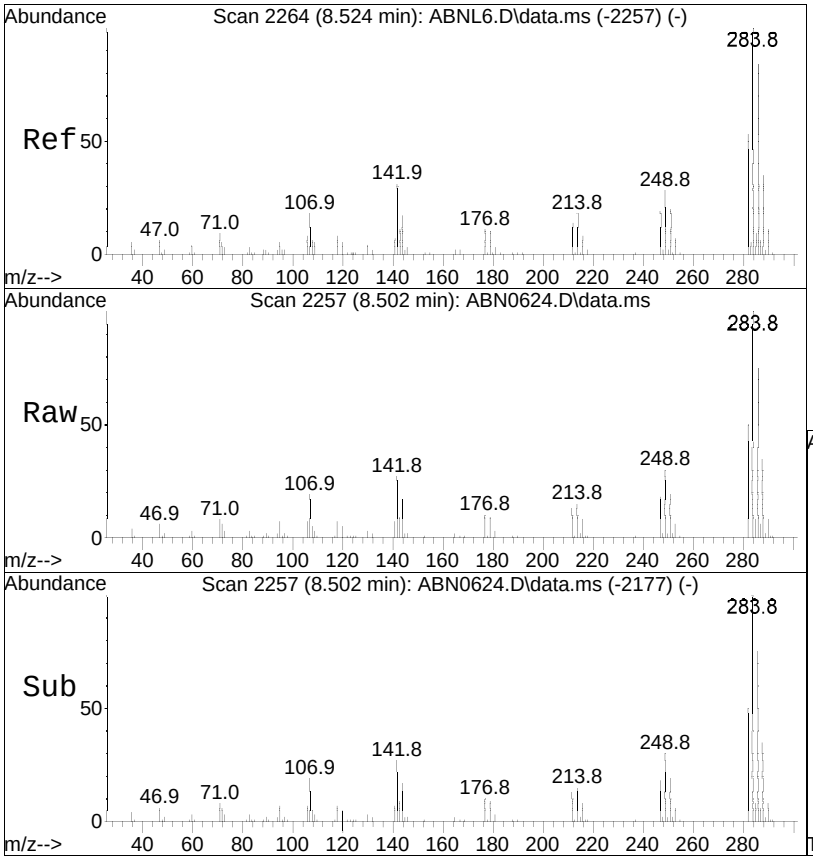


#80
4-Bromophenyl phenyl ether
Concen: 4.55 ug/ml
RT: 8.452 min Scan# 2241
Delta R.T. 0.000 min
Lab File: ABN0624.D
Acq: 24 Jun 2024 2:00 pm

Tgt Ion:248 Resp: 38636

Ion	Ratio	Lower	Upper
248	100		
141	57.0	76.6	114.8#
250	98.2	77.3	115.9

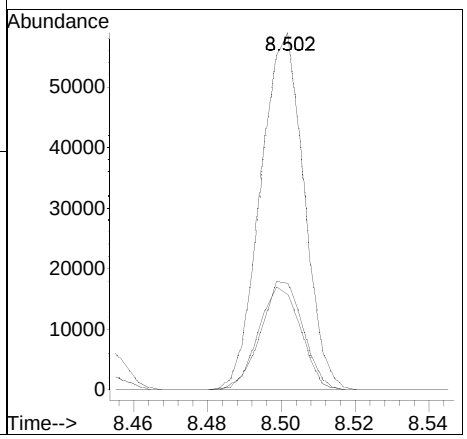


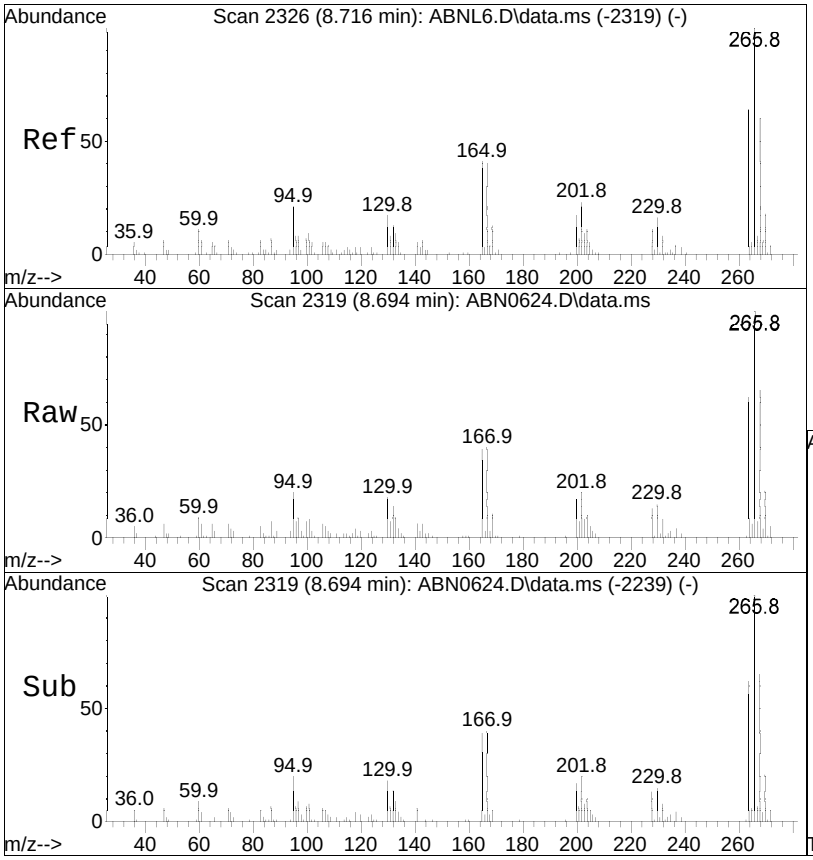


#81
Hexachlorobenzene
Concen: 4.54 ug/ml
RT: 8.502 min Scan# 2257
Delta R.T. 0.000 min
Lab File: ABN0624.D
Acq: 24 Jun 2024 2:00 pm

Tgt Ion:284 Resp: 47880

Ion	Ratio	Lower	Upper
284	100		
142	28.4	41.9	62.9#
249	29.9	24.1	36.1

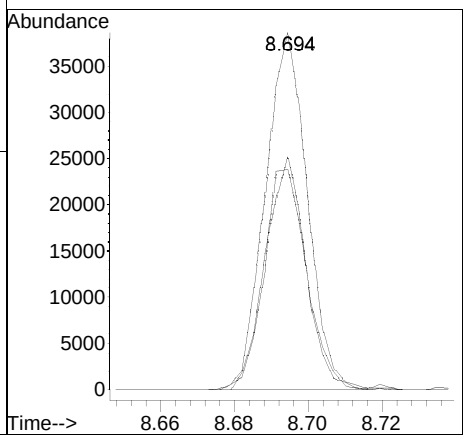


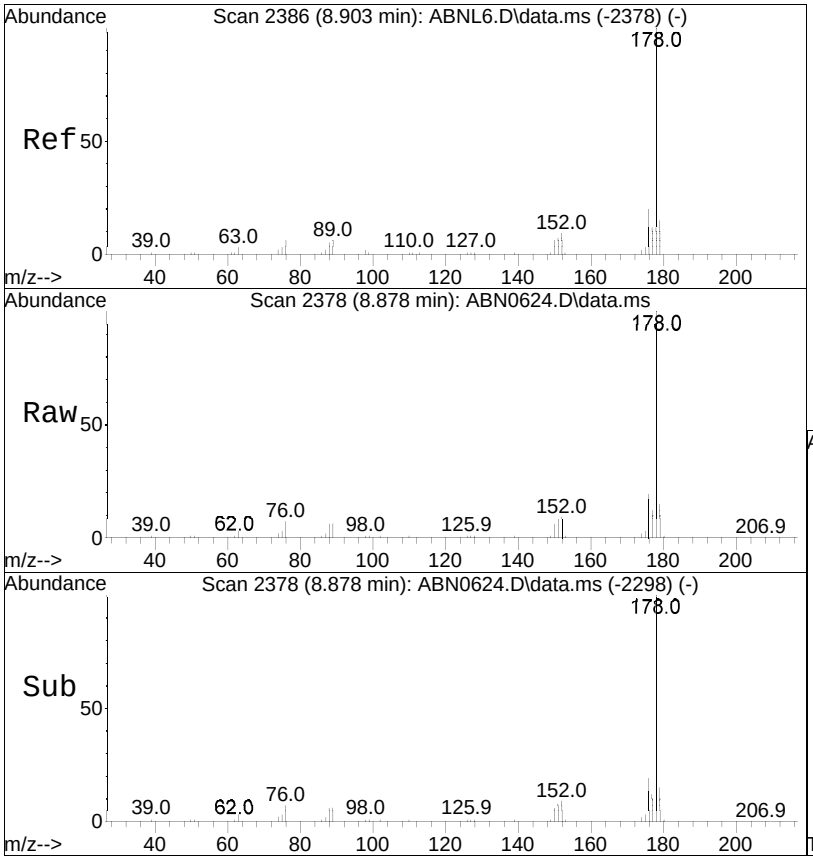


#82
Pentachlorophenol
Concen: 4.79 ug/ml
RT: 8.694 min Scan# 2319
Delta R.T. 0.000 min
Lab File: ABN0624.D
Acq: 24 Jun 2024 2:00 pm

Tgt Ion:266 Resp: 30534

Ion	Ratio	Lower	Upper
266	100		
264	63.1	49.7	74.5
268	62.7	50.5	75.7

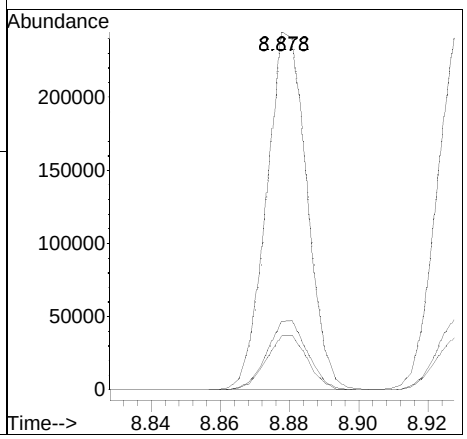


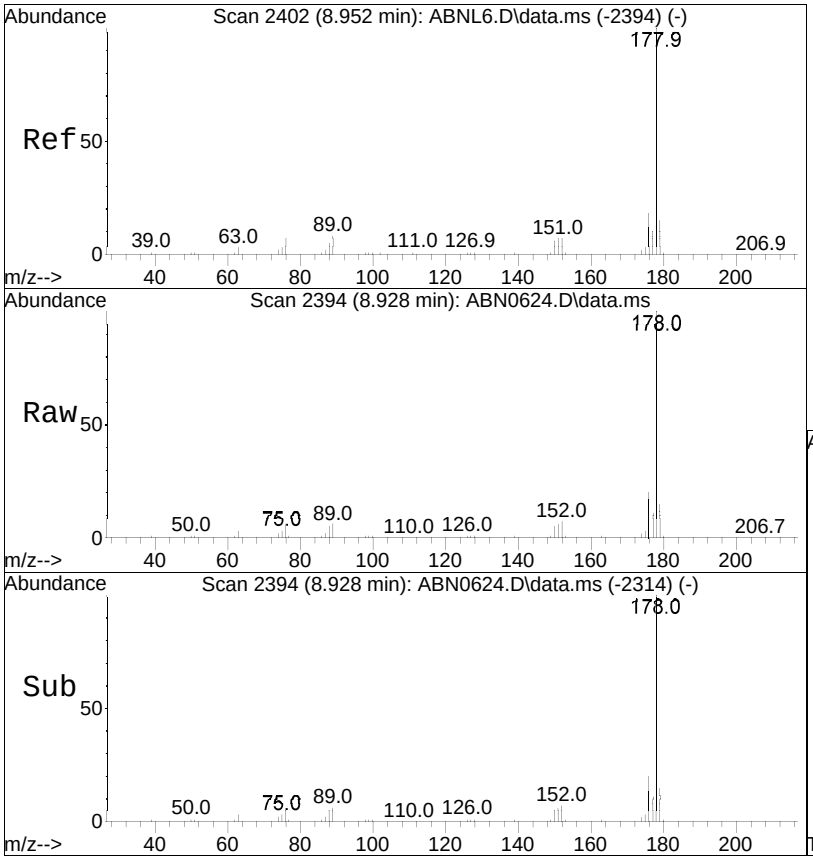


#89
Phenanthrene
Concen: 4.70 ug/ml
RT: 8.878 min Scan# 2378
Delta R.T. 0.000 min
Lab File: ABN0624.D
Acq: 24 Jun 2024 2:00 pm

Tgt Ion:178 Resp: 198418

Ion	Ratio	Lower	Upper
178	100		
179	15.4	12.2	18.2
176	19.3	15.4	23.2

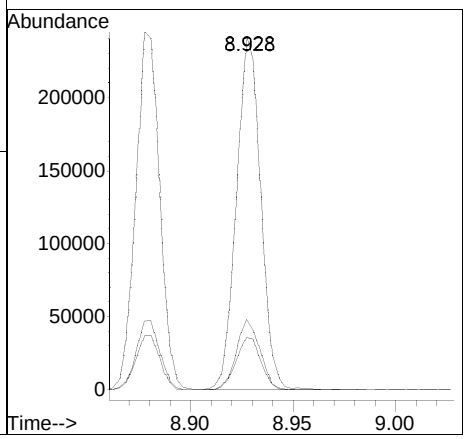


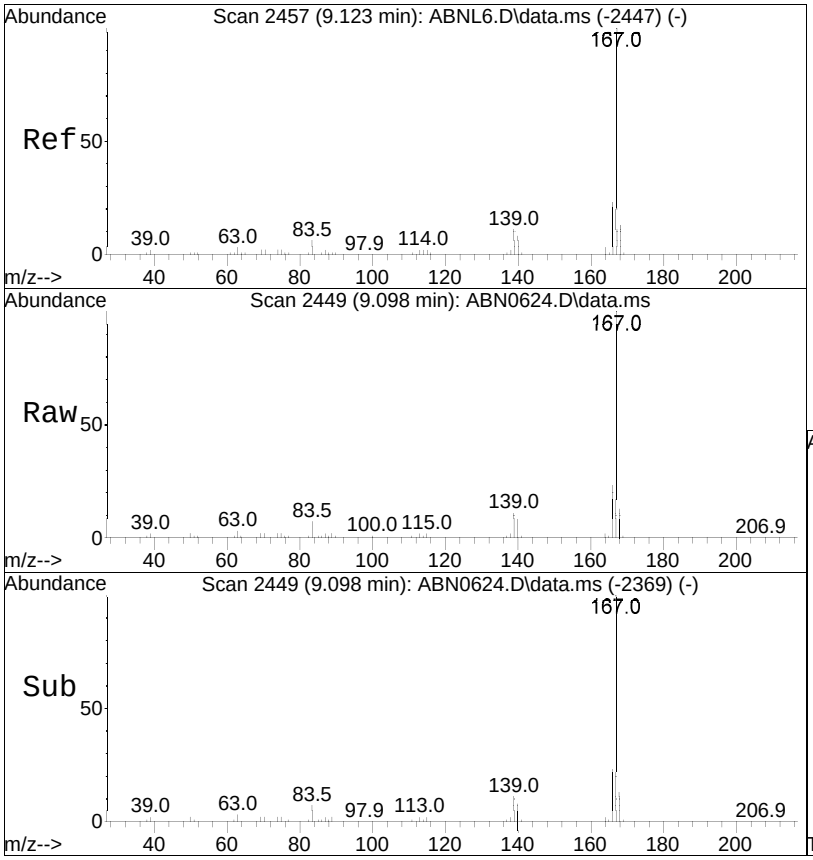


#90
Anthracene
Concen: 4.90 ug/ml
RT: 8.928 min Scan# 2394
Delta R.T. 0.000 min
Lab File: ABN0624.D
Acq: 24 Jun 2024 2:00 pm

Tgt Ion:178 Resp: 199258

Ion	Ratio	Lower	Upper
178	100		
179	15.1	12.0	18.0
176	19.3	14.6	22.0

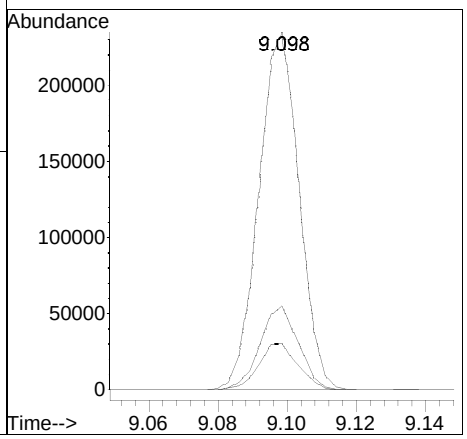


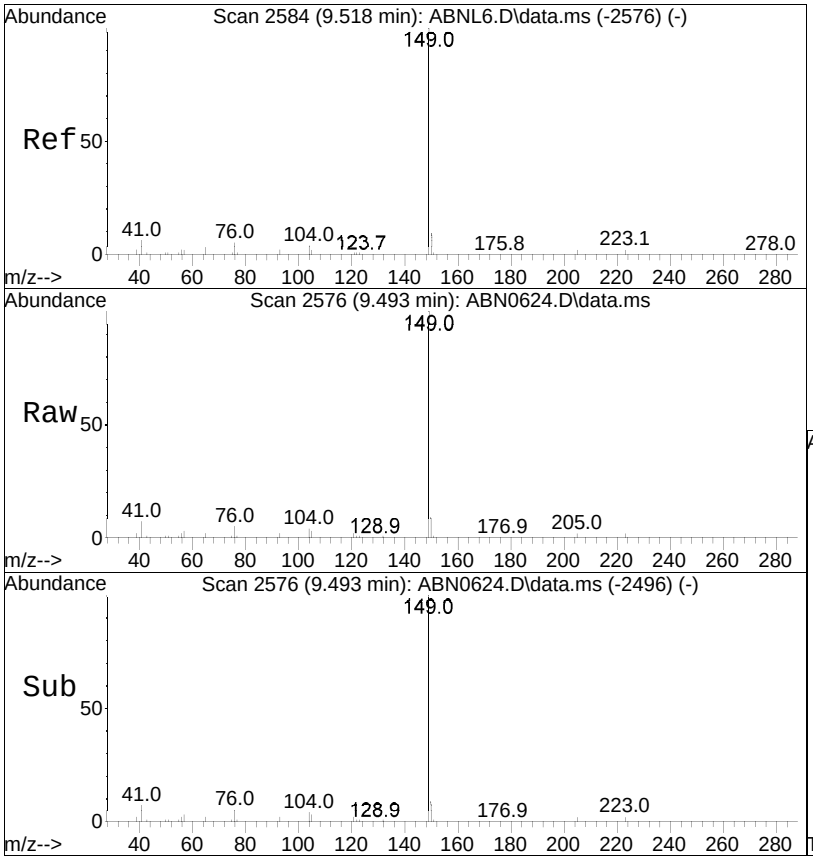


#91
Carbazole
Concen: 4.87 ug/ml
RT: 9.098 min Scan# 2449
Delta R.T. 0.000 min
Lab File: ABN0624.D
Acq: 24 Jun 2024 2:00 pm

Tgt Ion:167 Resp: 187828

Ion	Ratio	Lower	Upper
167	100		
168	12.7	10.6	15.8
166	22.4	17.4	26.0

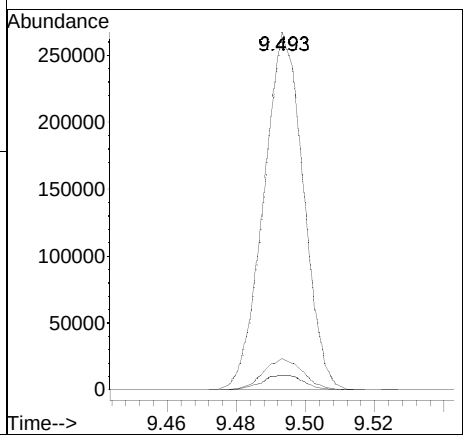


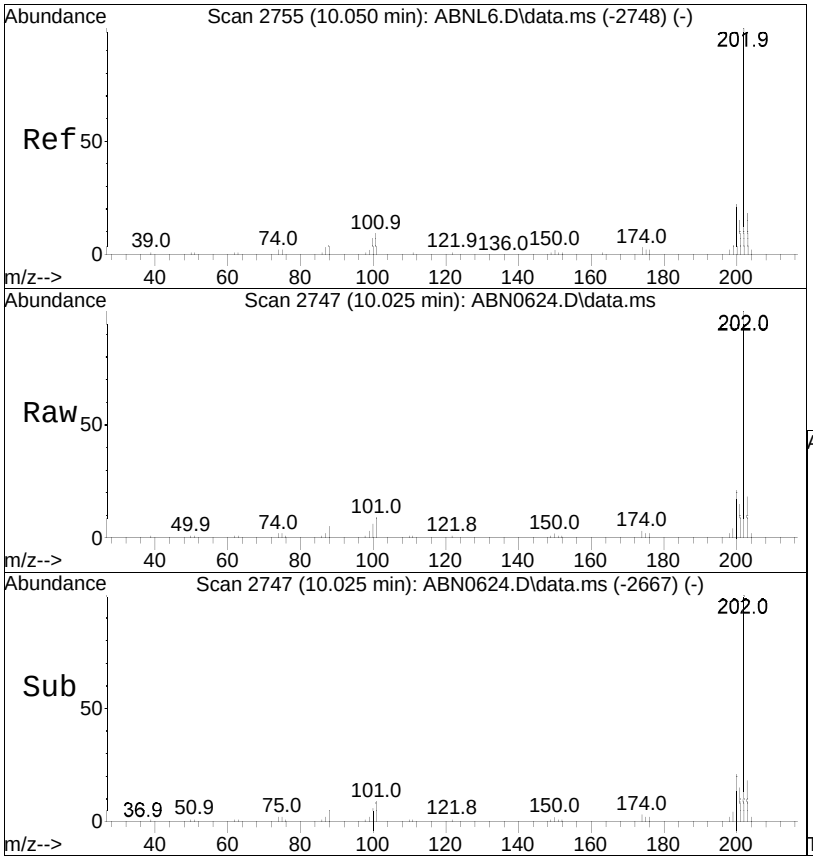


#92
Di-n-butylphthalate
Concen: 4.76 ug/ml
RT: 9.493 min Scan# 2576
Delta R.T. 0.000 min
Lab File: ABN0624.D
Acq: 24 Jun 2024 2:00 pm

Tgt Ion:149 Resp: 210680

Ion	Ratio	Lower	Upper
149	100		
150	8.8	7.0	10.6
104	4.4	4.5	6.7#

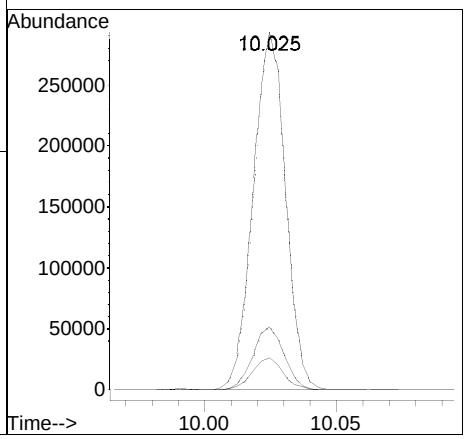


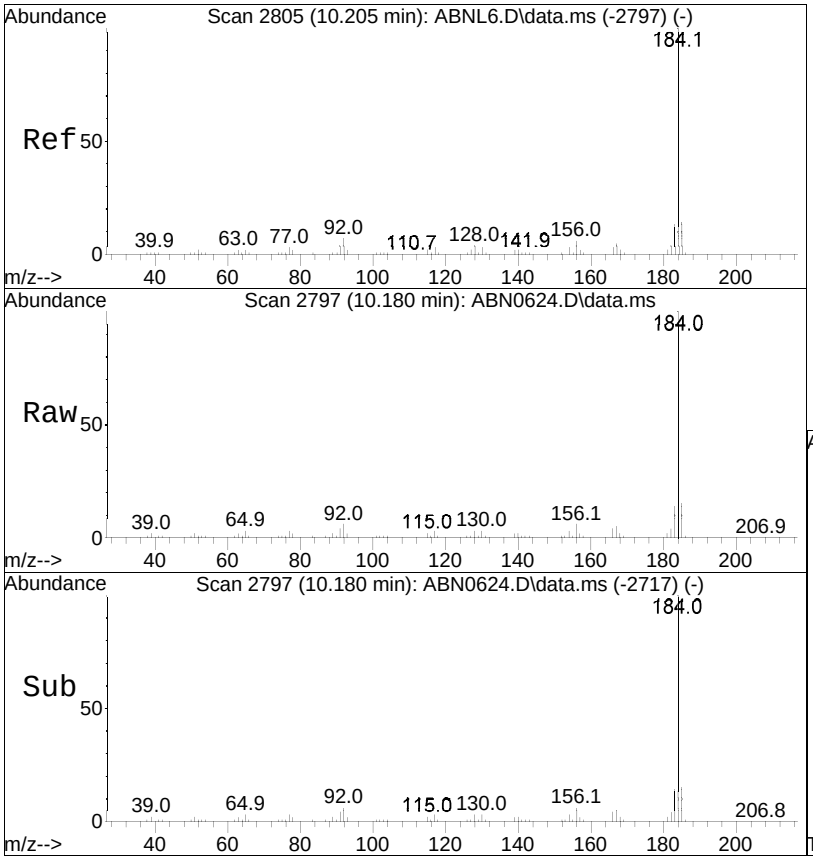


#93
Fluoranthene
Concen: 4.81 ug/ml
RT: 10.025 min Scan# 2747
Delta R.T. 0.000 min
Lab File: ABN0624.D
Acq: 24 Jun 2024 2:00 pm

Tgt Ion:202 Resp: 247138

Ion	Ratio	Lower	Upper
202	100		
101	8.7	13.5	20.3#
203	17.2	13.6	20.4

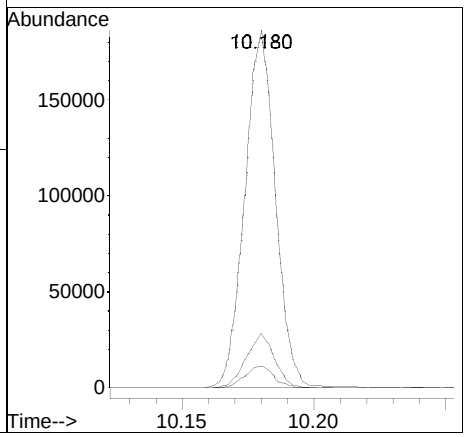


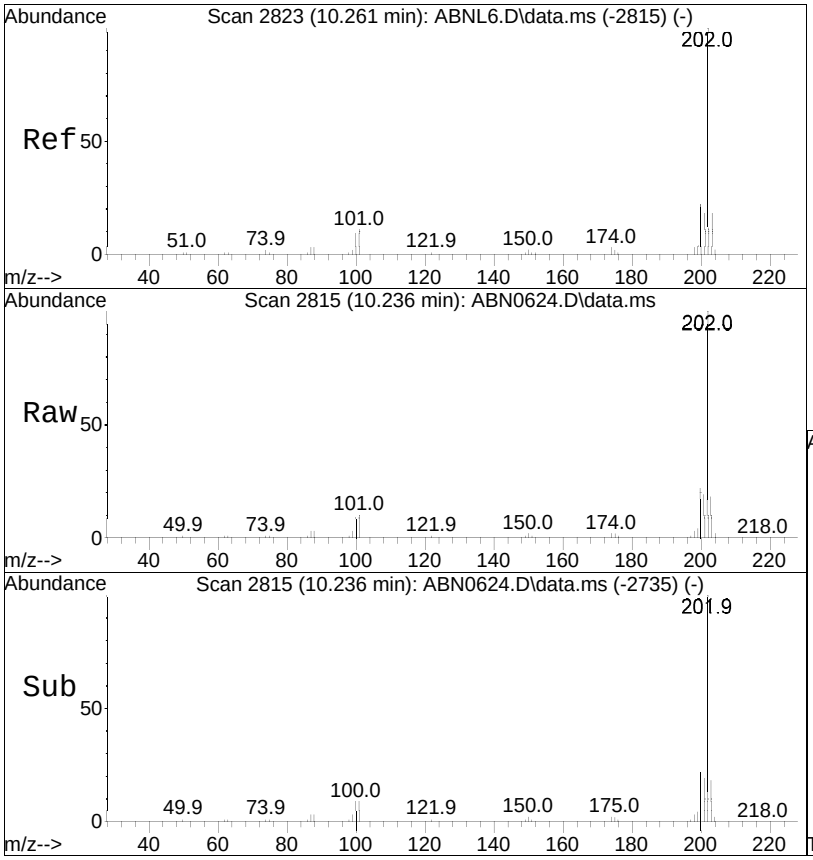


#94
Benzidine
Concen: 5.20 ug/ml
RT: 10.180 min Scan# 2797
Delta R.T. 0.000 min
Lab File: ABN0624.D
Acq: 24 Jun 2024 2:00 pm

Tgt Ion:184 Resp: 148912

Ion	Ratio	Lower	Upper
184	100		
92	5.9	9.1	13.7#
185	14.2	11.1	16.7

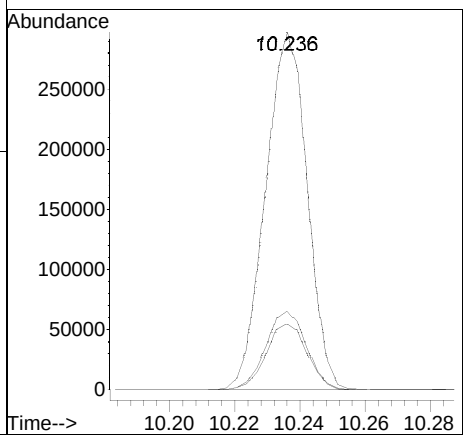


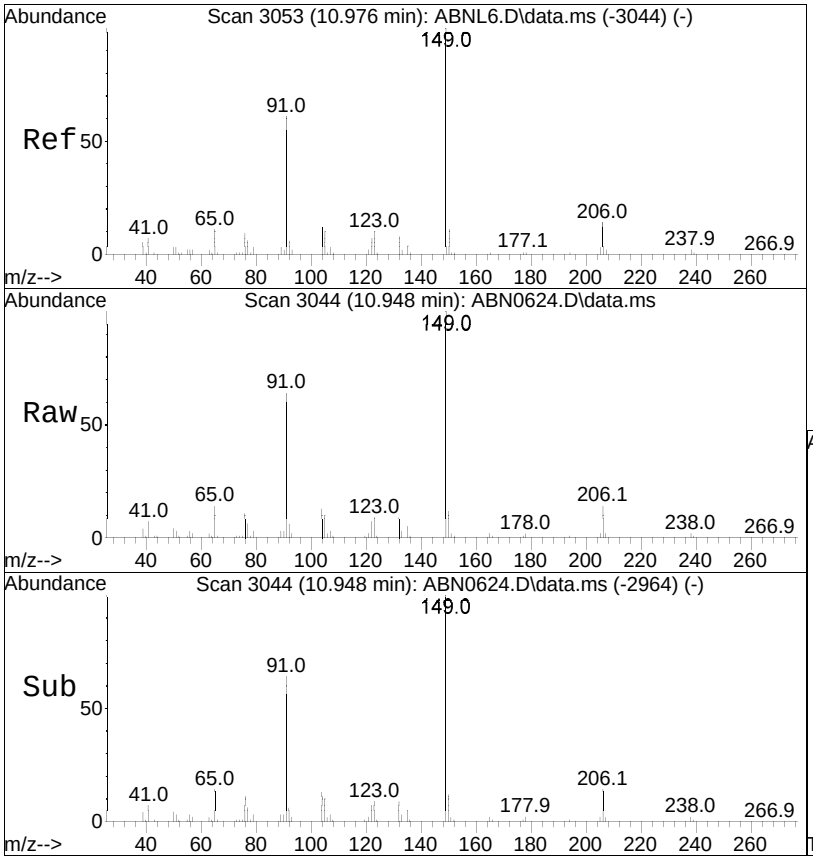


#95
Pyrene
Concen: 4.95 ug/ml
RT: 10.236 min Scan# 2815
Delta R.T. 0.000 min
Lab File: ABN0624.D
Acq: 24 Jun 2024 2:00 pm

Tgt Ion:202 Resp: 261835

Ion	Ratio	Lower	Upper
202	100		
200	21.6	16.7	25.1
203	18.3	14.2	21.4

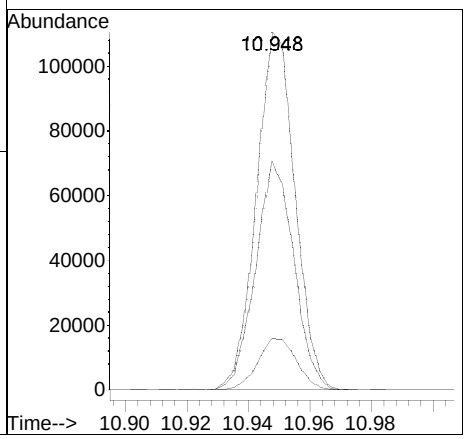


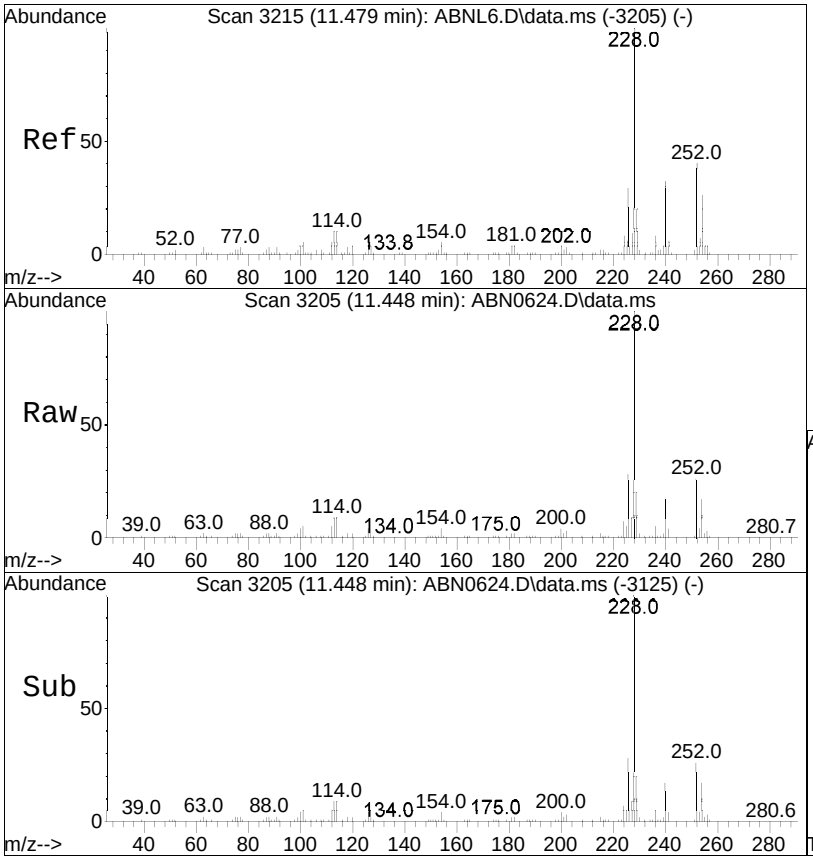


#97
Butyl benzyl phthalate
Concen: 4.79 ug/ml
RT: 10.948 min Scan# 3044
Delta R.T. 0.000 min
Lab File: ABN0624.D
Acq: 24 Jun 2024 2:00 pm

Tgt Ion:149 Resp: 95347

Ion	Ratio	Lower	Upper
149	100		
91	63.6	63.3	94.9
206	14.6	13.9	20.9

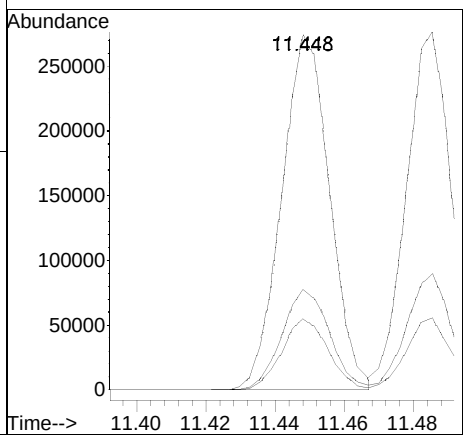


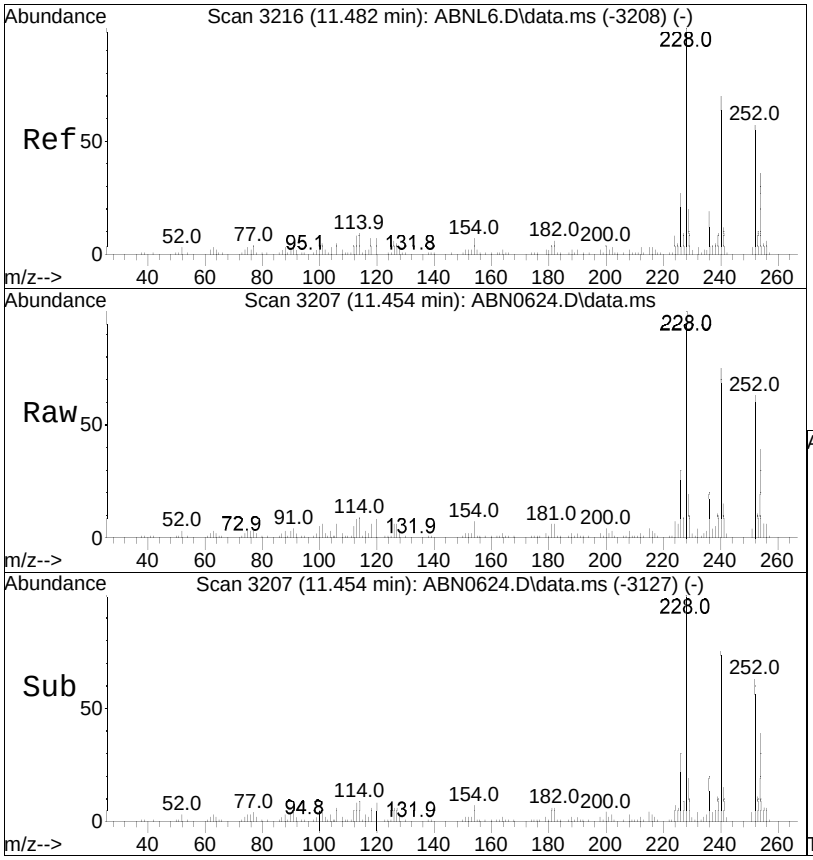


#105
Benzo(a)anthracene
Concen: 4.90 ug/ml
RT: 11.448 min Scan# 3205
Delta R.T. 0.000 min
Lab File: ABN0624.D
Acq: 24 Jun 2024 2:00 pm

Tgt Ion:228 Resp: 264076

Ion	Ratio	Lower	Upper
228	100		
226	28.2	22.2	33.4
229	19.5	15.6	23.4

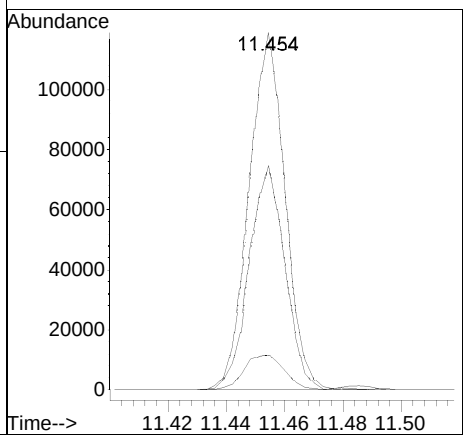


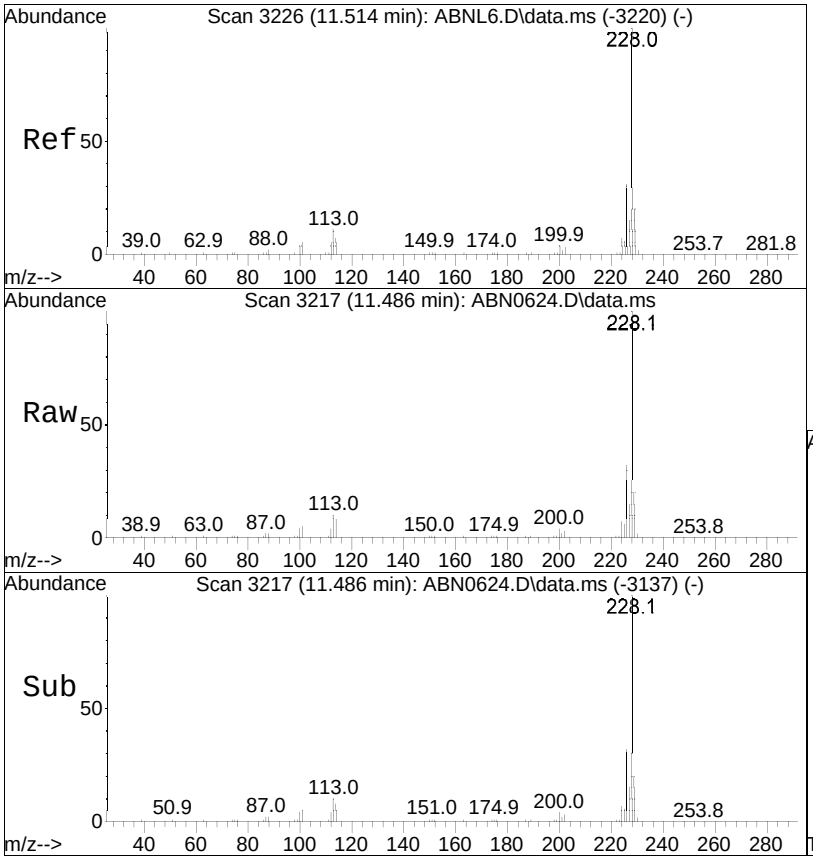


#106
3,3'-Dichlorobenzidine
Concen: 5.07 ug/ml
RT: 11.454 min Scan# 3207
Delta R.T. 0.000 min
Lab File: ABN0624.D
Acq: 24 Jun 2024 2:00 pm

Tgt Ion:252 Resp: 101471

Ion	Ratio	Lower	Upper
252	100		
126	10.9	14.5	21.7#
254	62.4	51.2	76.8

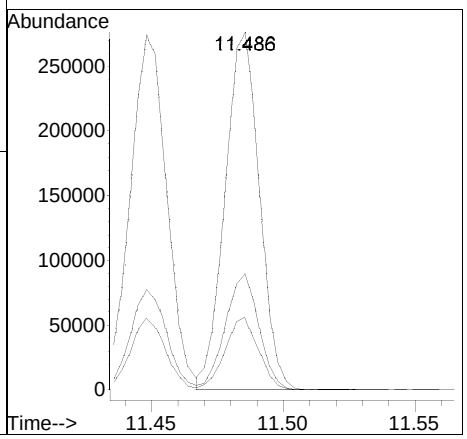


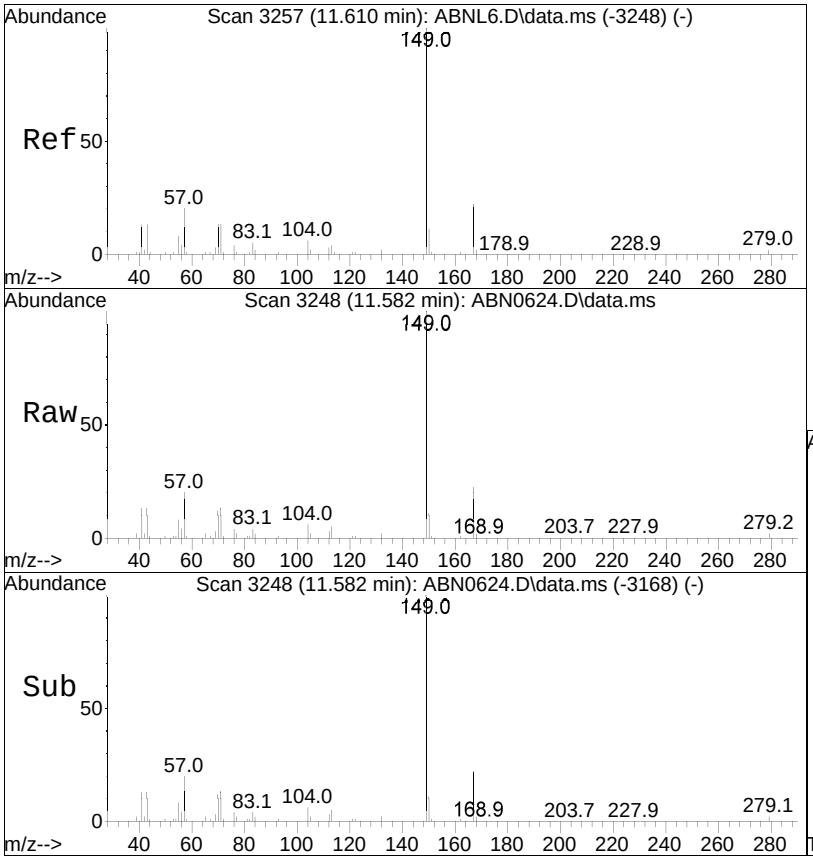


#107
Chrysene
Concen: 4.89 ug/ml
RT: 11.486 min Scan# 3217
Delta R.T. 0.000 min
Lab File: ABN0624.D
Acq: 24 Jun 2024 2:00 pm

Tgt Ion:228 Resp: 250177

Ion	Ratio	Lower	Upper
228	100		
226	31.7	24.0	36.0
229	19.7	15.8	23.8

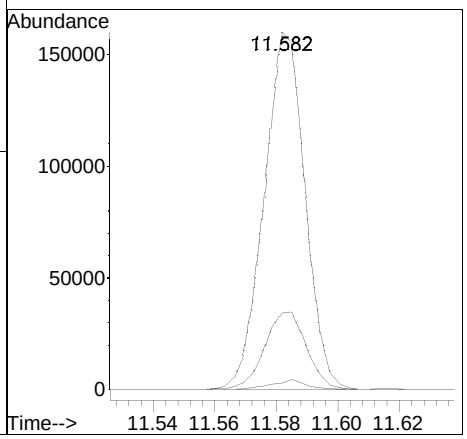


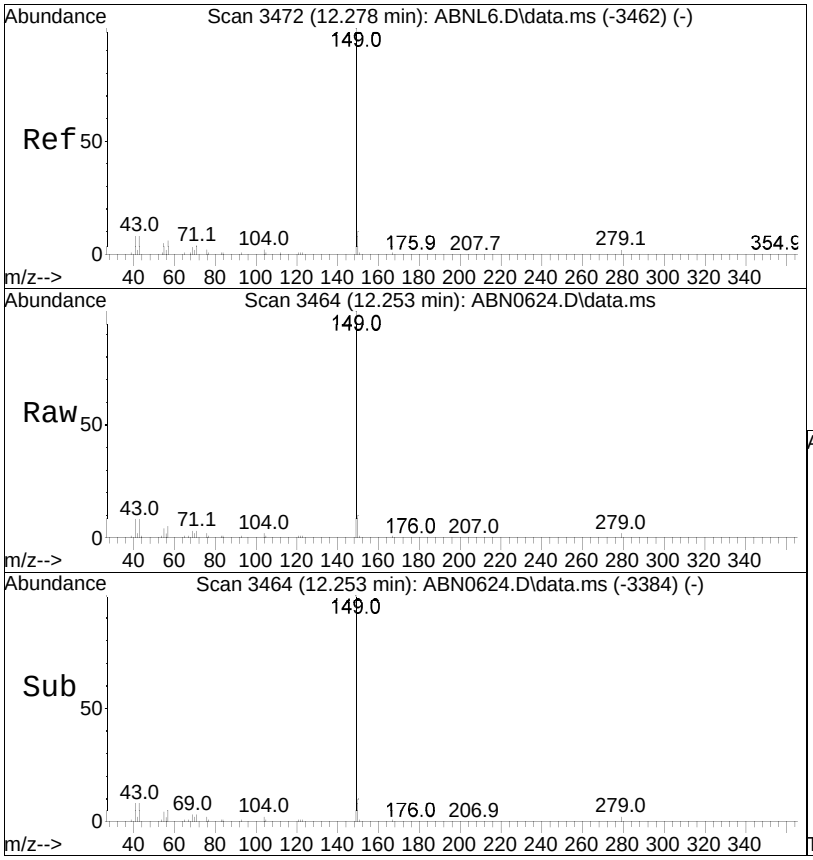


#108
Bis(2-ethylhexyl)phthalate
Concen: 4.83 ug/ml
RT: 11.582 min Scan# 3248
Delta R.T. 0.000 min
Lab File: ABN0624.D
Acq: 24 Jun 2024 2:00 pm

Tgt Ion:149 Resp: 146483

Ion	Ratio	Lower	Upper
149	100		
167	22.3	22.1	33.1
279	2.1	3.0	4.4#

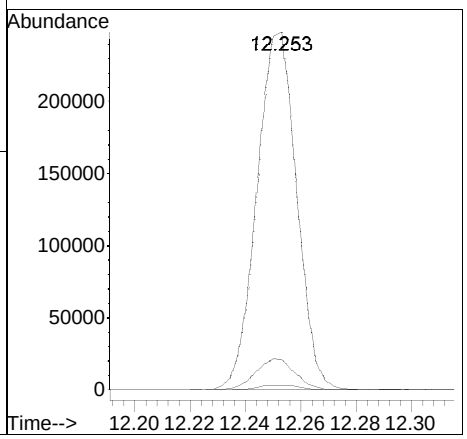


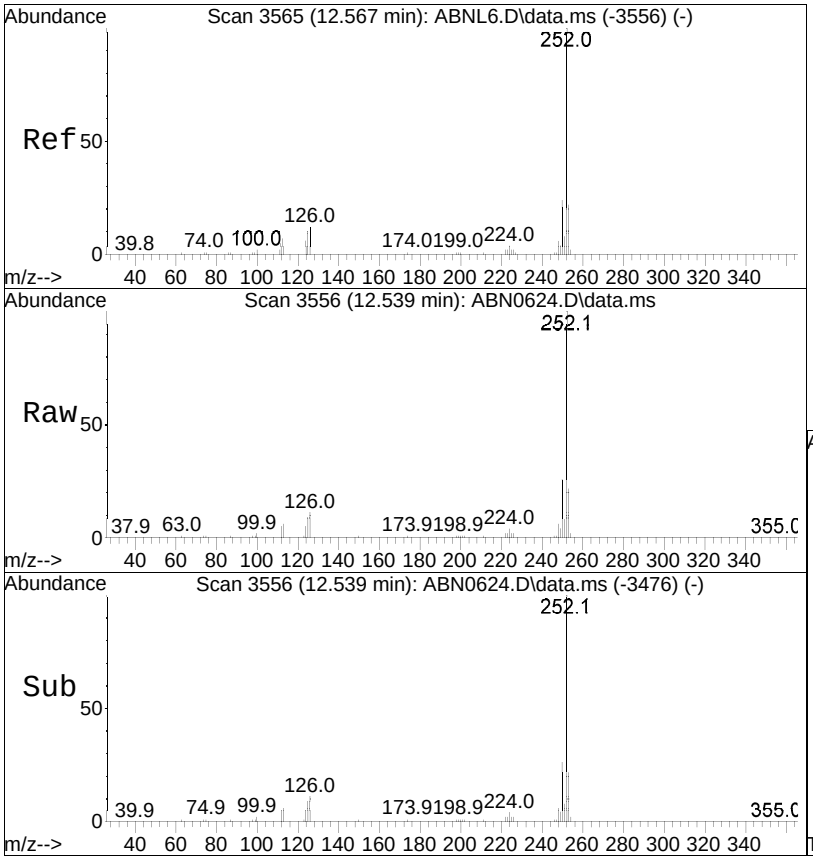


#109
Di-n-octylphthalate
Concen: 4.84 ug/ml
RT: 12.253 min Scan# 3464
Delta R.T. 0.000 min
Lab File: ABN0624.D
Acq: 24 Jun 2024 2:00 pm

Tgt Ion:149 Resp: 244922

Ion	Ratio	Lower	Upper
149	100		
43	8.8	18.8	28.2#
167	1.3	1.3	1.9

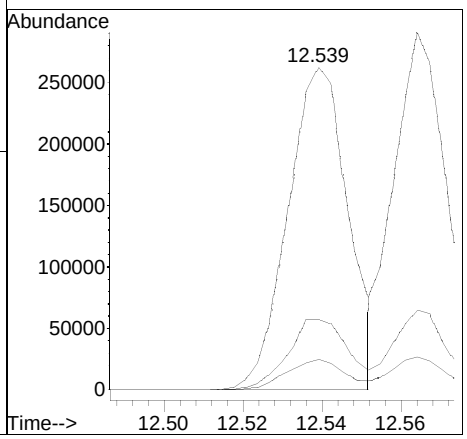


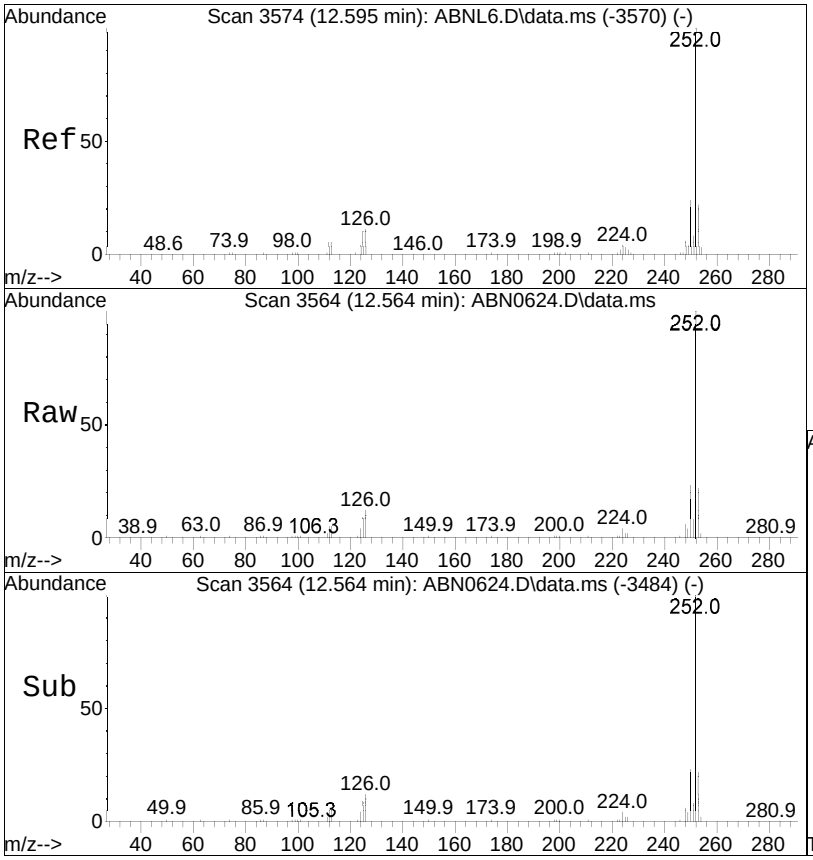


#110
Benzo(b)fluoranthene
Concen: 4.81 ug/ml
RT: 12.539 min Scan# 3556
Delta R.T. 0.000 min
Lab File: ABN0624.D
Acq: 24 Jun 2024 2:00 pm

Tgt Ion:252 Resp: 277086

Ion	Ratio	Lower	Upper
252	100		
125	9.3	13.3	19.9#
253	22.1	17.1	25.7

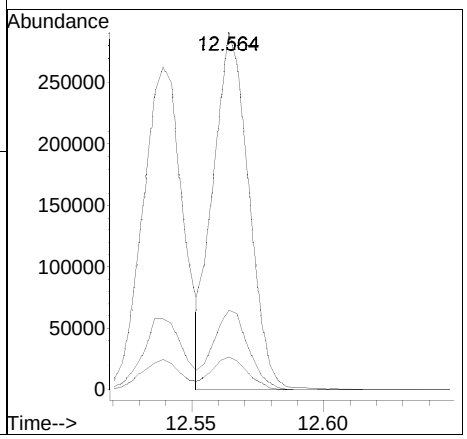


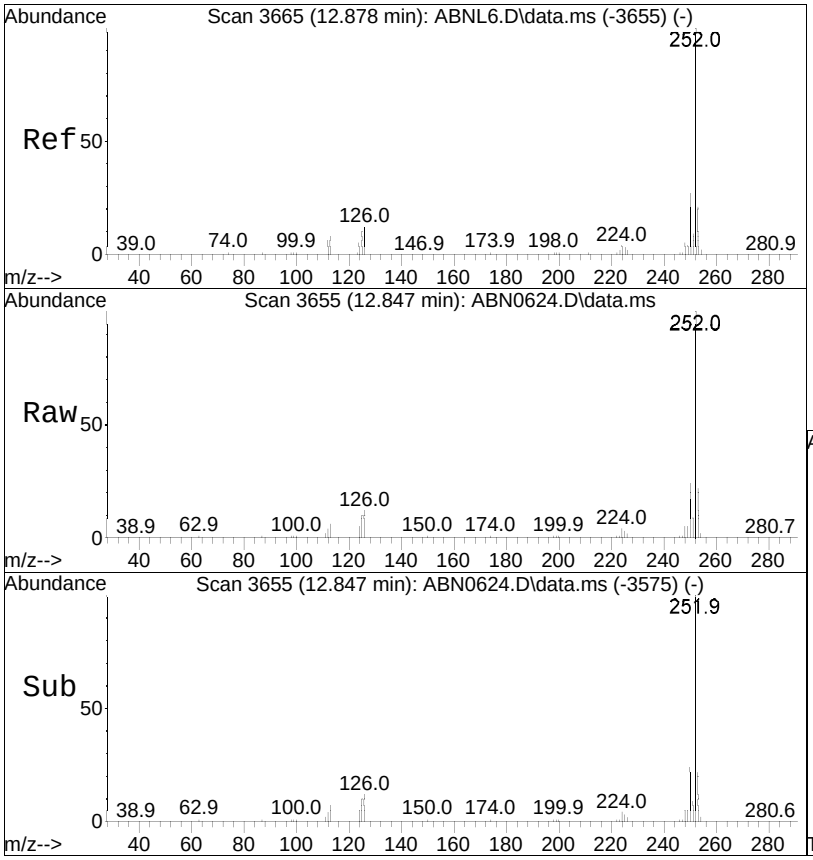


#111
Benzo(k)fluoranthene
Concen: 4.99 ug/ml
RT: 12.564 min Scan# 3564
Delta R.T. 0.000 min
Lab File: ABN0624.D
Acq: 24 Jun 2024 2:00 pm

Tgt Ion:252 Resp: 273131

Ion	Ratio	Lower	Upper
252	100		
125	9.3	13.0	19.6#
253	22.0	16.8	25.2

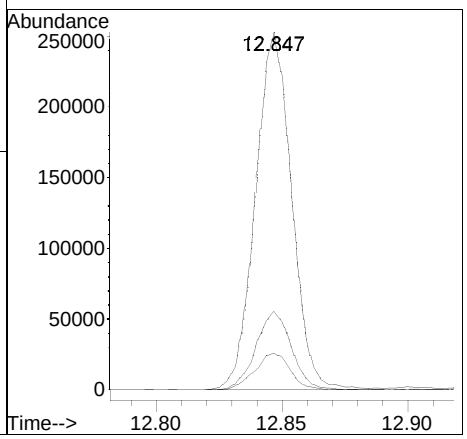


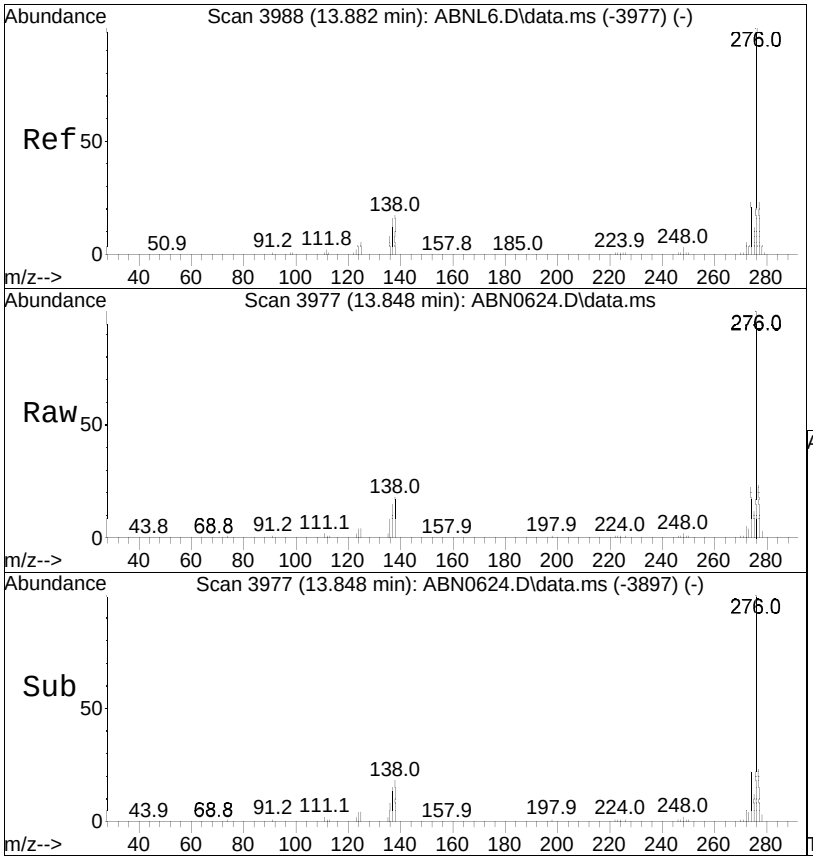


#112
Benzo(a)pyrene
Concen: 4.90 ug/ml
RT: 12.847 min Scan# 3655
Delta R.T. 0.000 min
Lab File: ABN0624.D
Acq: 24 Jun 2024 2:00 pm

Tgt Ion:252 Resp: 249998

Ion	Ratio	Lower	Upper
252	100		
125	10.2	14.2	21.2#
253	21.7	16.9	25.3

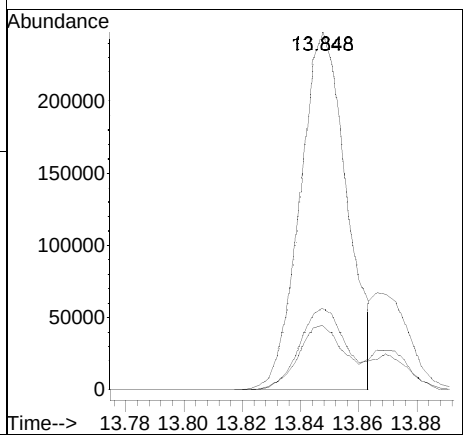


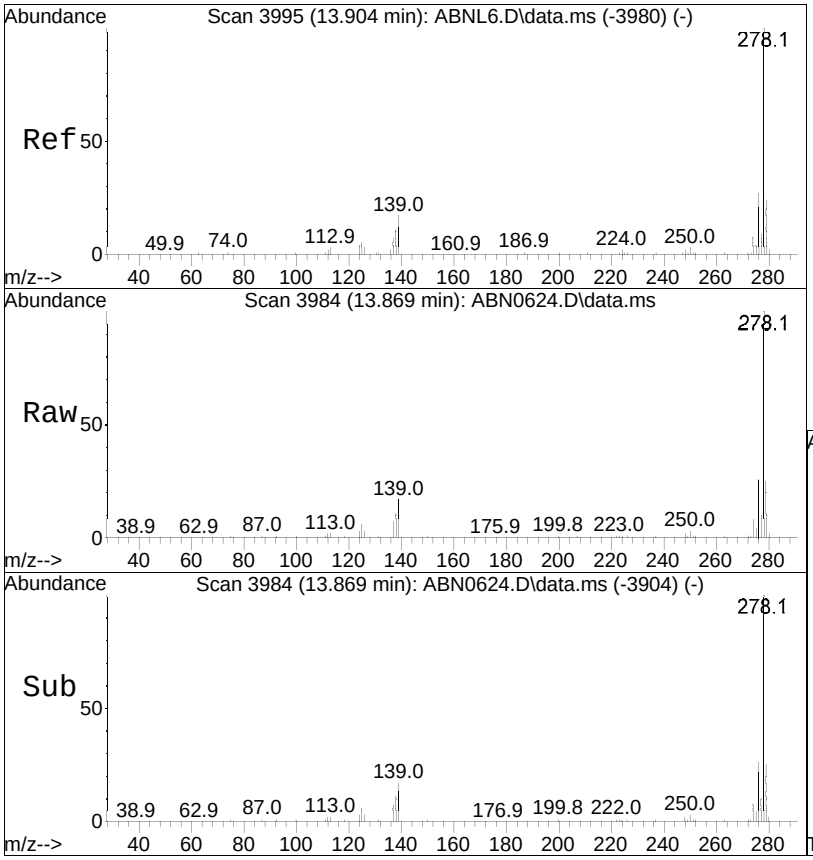


#114
Indeno(1,2,3-cd)pyrene
Concen: 4.70 ug/mL M4
RT: 13.848 min Scan# 3977
Delta R.T. 0.000 min
Lab File: ABN0624.D
Acq: 24 Jun 2024 2:00 pm

Tgt Ion:276 Resp: 275897

Ion	Ratio	Lower	Upper
276	100		
138	18.0	25.1	37.7#
277	23.5	18.6	28.0

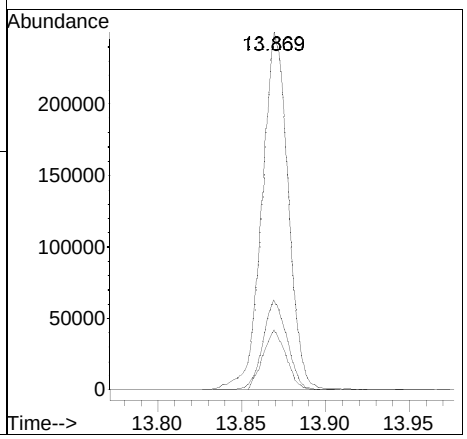


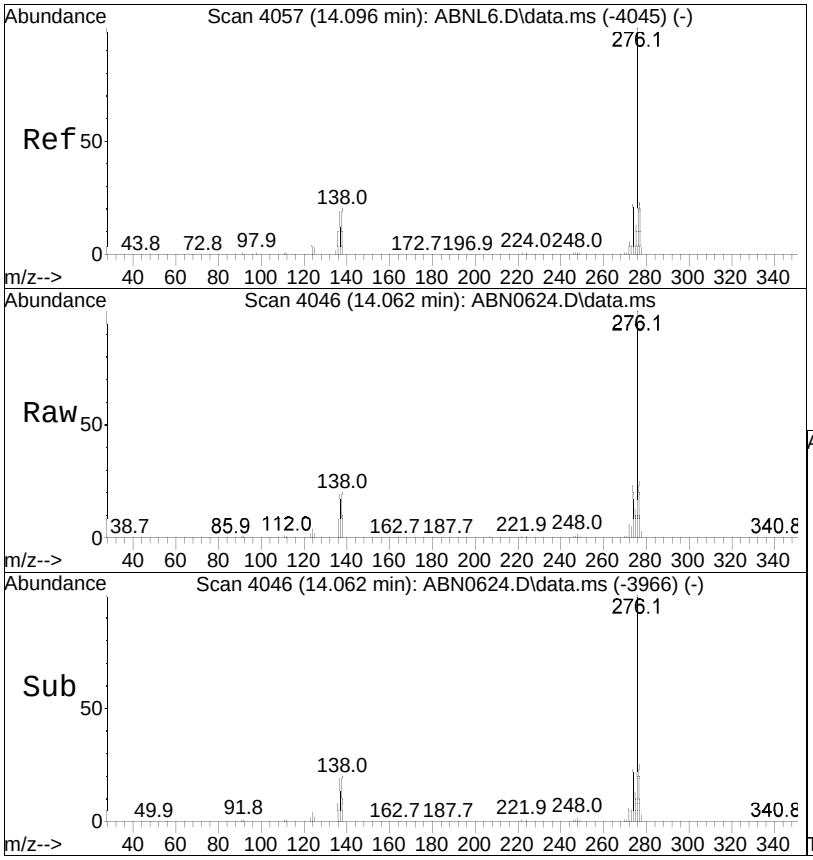


#115
Dibenzo(a,h)anthracene
Concen: 4.93 ug/ml
RT: 13.869 min Scan# 3984
Delta R.T. 0.000 min
Lab File: ABN0624.D
Acq: 24 Jun 2024 2:00 pm

Tgt Ion:278 Resp: 269488

Ion	Ratio	Lower	Upper
278	100		
139	14.9	20.8	31.2#
279	23.4	18.3	27.5

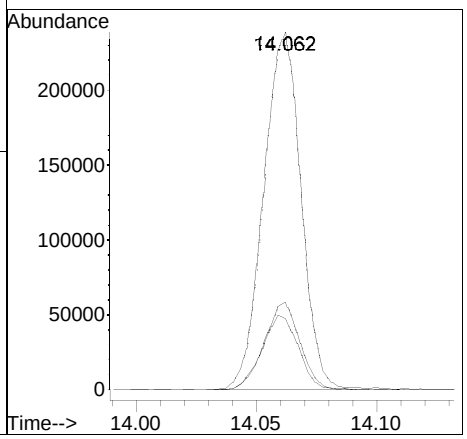




#116
Benzo(ghi)perylene
Concen: 4.76 ug/ml
RT: 14.062 min Scan# 4046
Delta R.T. 0.000 min
Lab File: ABN0624.D
Acq: 24 Jun 2024 2:00 pm

Tgt Ion:276 Resp: 255856

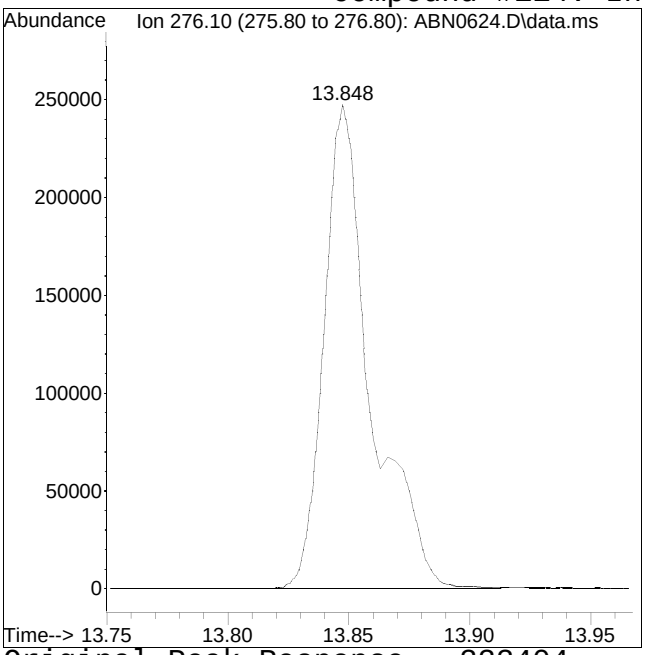
Ion	Ratio	Lower	Upper
276	100		
138	20.6	29.2	43.8#
277	23.6	18.8	28.2



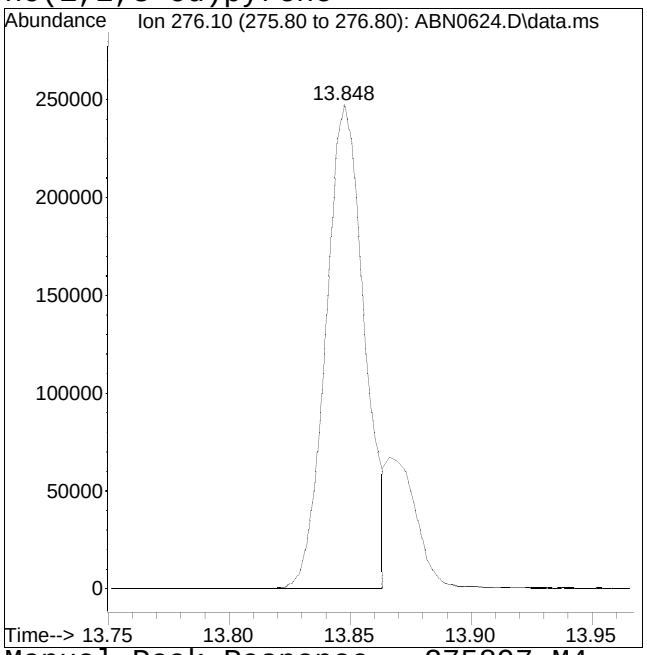
Manual Integration Report

Data Path : I:\8270\Dakota\240624RVT\ QMethod : FS240618RVT_14D_Dakota.m
Data File : ABN0624.D Operator : Dakota:jg
Date Inj'd : 6/24/2024 2:00 pm Instrument : Dakota
Sample : WG1938645-3,32,,ABN 10777 Quant Date : 6/25/2024 8:21 pm

Compound #114: Indeno(1,2,3-cd)pyrene



Original Peak Response = 333404



Manual Peak Response = 275897 M4

M4 = Poor automated baseline construction.

Evaluate Continuing Calibration Report

Data Path : I:\8270\Dakota\240624RVT\
Data File : AP90624.D
Acq On : 24 Jun 2024 2:22 pm
Operator : Dakota:jg
Sample : WG1938645-4,32,,AP9 10776 HNY0619A
Misc : WG1938645,,ical21225
ALS Vial : 97 Sample Multiplier: 1

Quant Time: Jun 25 20:21:30 2024
Quant Method : I:\8270\Dakota\240624RVT\FS240618RVT_14D_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Jun 25 20:11:49 2024
Response via : Initial Calibration

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

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
27	I	IS2_1,4-Dichlorobenzene-d4	1.000	1.000	0.0	87	0.00
28	T	Benzaldehyde	1.036	0.995	4.0	86	0.00
29	T	Acetophenone	1.772	1.706	3.7	87	0.00
30	T	m-Toluidine	1.704	1.706	-0.1	87	0.00
31	T	2-Chloroaniline	1.648	1.606	2.5	88	0.00
55	I	IS2_Naphthalene-d8	1.000	1.000	0.0	91	0.00
56	T	a-Terpineol	0.269	0.244	9.3	85	0.00
57	T	3-Chloroaniline	0.150	0.139	7.3	87	0.00
58	T	2,6-Dichlorophenol	0.375	0.366	2.4	89	0.00
59	T	1-chloro-2-nitrobenzene	0.155	0.143	7.7	89	0.00
60	T	Caprolactam	0.134	0.138	-3.0	93	0.00
61	T	1,2,4,5-Tetrachlorobenzene	0.499	0.469	6.0	89	0.00
62	T	Biphenyl	1.069	1.014	5.1	89	0.00
83	I	IS2_Acenaphthene-d10	1.000	1.000	0.0	94	0.00
84	T	Dichloran	0.236	0.213	9.7	90	0.00
85	T	Pentachloronitrobenzene	0.220	0.215	2.3	89	0.00
98	I	IS2_Phenanthrene-d10	1.000	1.000	0.0	96	0.00
99	T	Diphenamid	0.521	0.508	2.5	92	0.00

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\240624RVT\
Data File : AP90624.D
Acq On : 24 Jun 2024 2:22 pm
Operator : Dakota:jg
Sample : WG1938645-4,32,,AP9 10776 HNY0619A
Misc : WG1938645,,ical21225
ALS Vial : 97 Sample Multiplier: 1

Quant Time: Jun 25 20:21:30 2024
Quant Method : I:\8270\Dakota\240624RVT\FS240618RVT_14D_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Jun 25 20:11:49 2024
Response via : Initial Calibration

Sub List : AP9ical - AP9 ical sublist

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
27) IS2_1,4-Dichlorobenzen...	4.505	152	26504	4.000	ug/ml		0.00
55) IS2_Naphthalene-d8	5.739	136	100155	4.000	ug/ml	#	0.00
83) IS2_Acenaphthene-d10	7.433	164	69129	4.000	ug/ml		0.00
98) IS2_Phenanthrene-d10	8.856	188	166958	4.000	ug/ml		0.00
System Monitoring Compounds							
Target Compounds							Qvalue
28) Benzaldehyde	4.070	105	32956	4.801	ug/ml		100
29) Acetophenone	4.909	105	56519	4.815	ug/ml	#	77
30) m-Toluidine	4.990	106	56532	5.008	ug/ml		92
31) 2-Chloroaniline	5.350	127	53191	4.872	ug/ml	#	93
56) a-Terpineol	5.798	59	30576	4.536	ug/ml	#	74
57) 3-Chloroaniline	5.813	65	17447	4.649	ug/ml		93
58) 2,6-Dichlorophenol	5.838	162	45833	4.878	ug/ml	#	81
59) 1-chloro-2-nitrobenzene	6.093	111	17934	4.610	ug/ml	#	1
60) Caprolactam	6.127	55	17333	5.175	ug/ml	#	63
61) 1,2,4,5-Tetrachloroben...	6.606	216	58764	4.699	ug/ml	#	96
62) Biphenyl	6.895	154	127002	4.745	ug/ml		98
84) Dichloran	8.561	206	18411	4.520	ug/ml	#	57
85) Pentachloronitrobenzene	8.710	237	18574	4.887	ug/ml	#	80
99) Diphenamid	9.764	167	106070	4.882	ug/ml	#	75

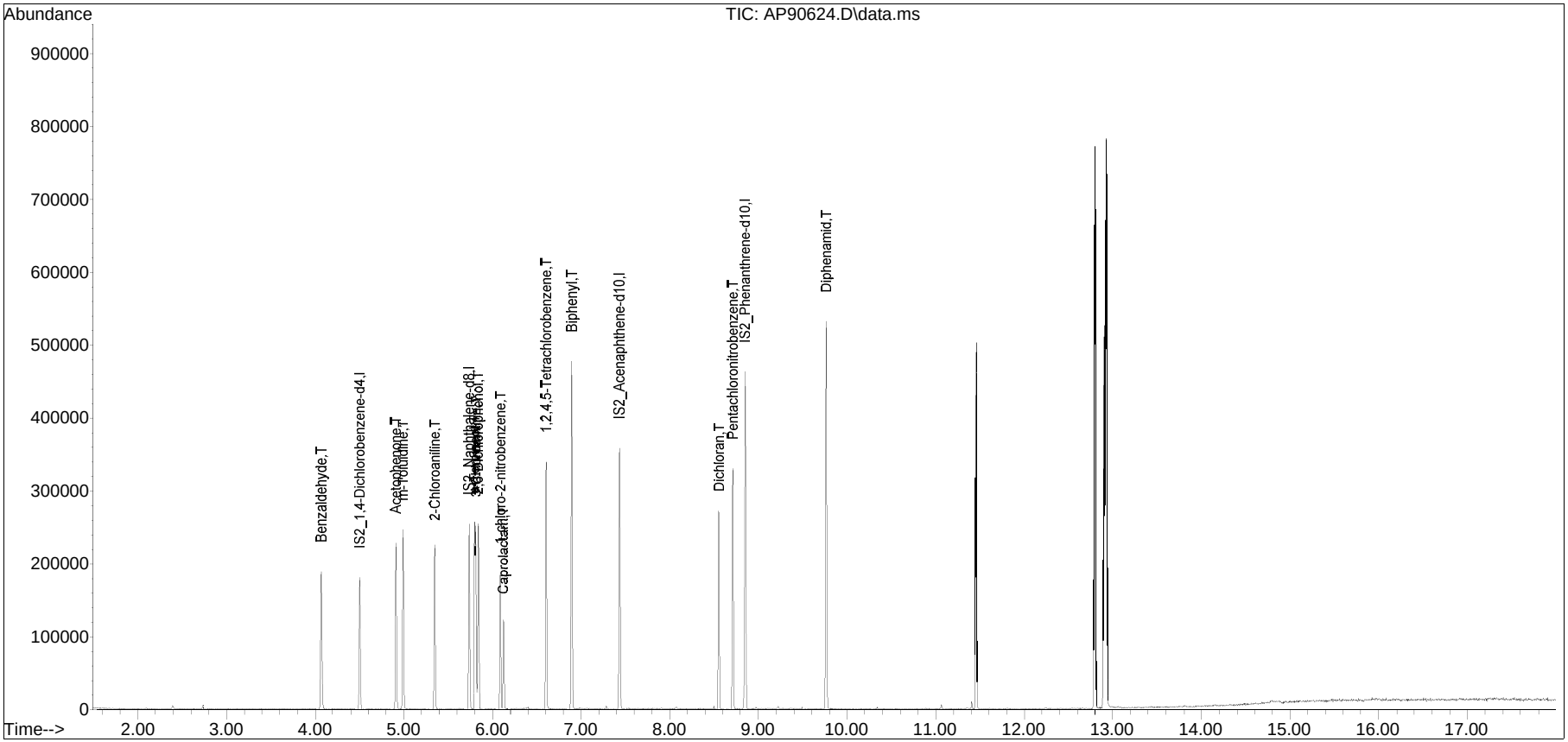
(#) = qualifier out of range (m) = manual integration (+) = signals summed

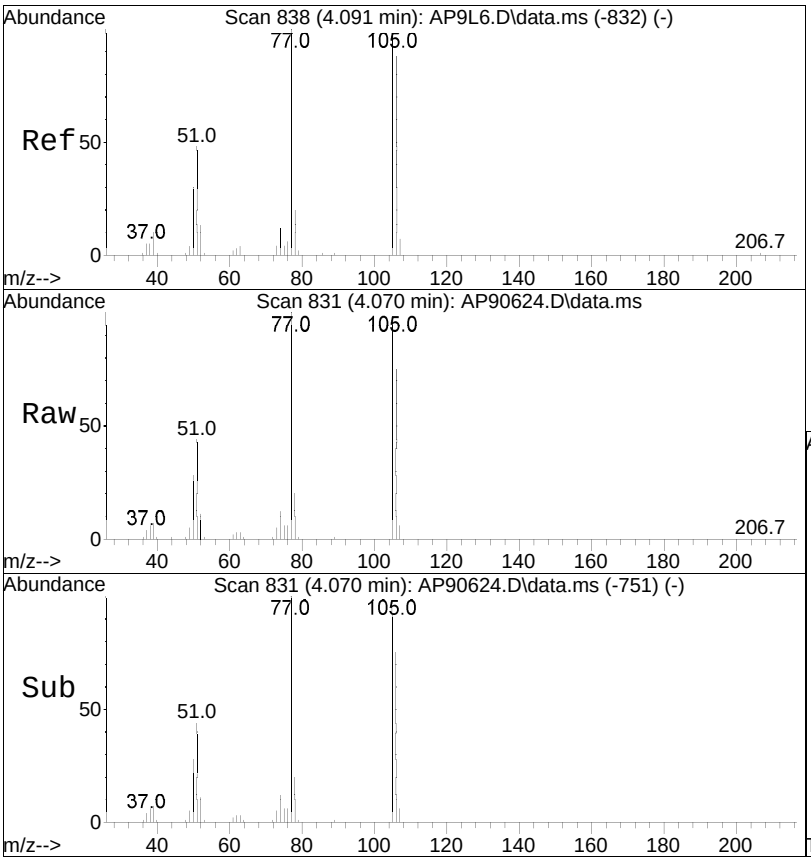
Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\240624RVT\
Data File : AP90624.D
Acq On : 24 Jun 2024 2:22 pm
Operator : Dakota:jg
Sample : WG1938645-4,32,,AP9 10776 HNY0619A
Misc : WG1938645,,ical21225
ALS Vial : 97 Sample Multiplier: 1

Quant Time: Jun 25 20:21:30 2024
Quant Method : I:\8270\Dakota\240624RVT\FS240618RVT_14D_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Jun 25 20:11:49 2024
Response via : Initial Calibration

Sub List : AP9ical - AP9 ical sublist

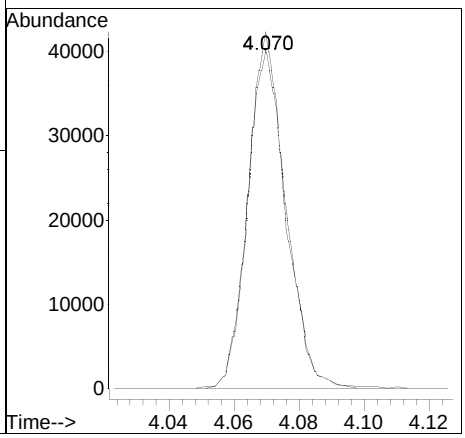


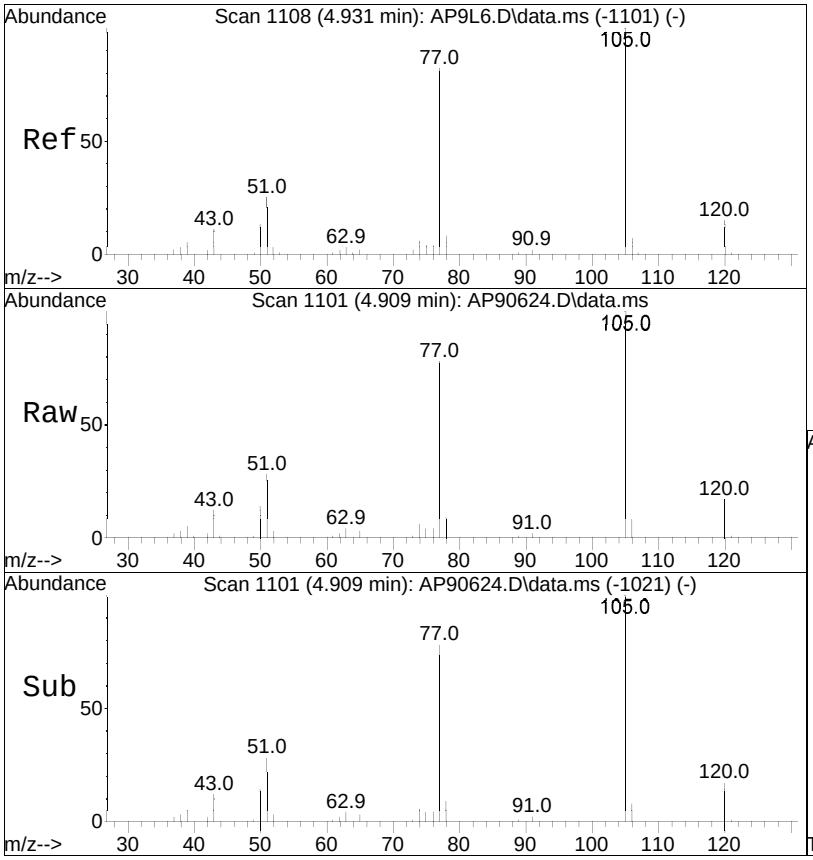


#28
Benzaldehyde
Concen: 4.80 ug/ml
RT: 4.070 min Scan# 831
Delta R.T. 0.000 min
Lab File: AP90624.D
Acq: 24 Jun 2024 2:22 pm

Tgt Ion:105 Resp: 32956

Ion	Ratio	Lower	Upper
105	100		
77	102.6	82.2	123.4

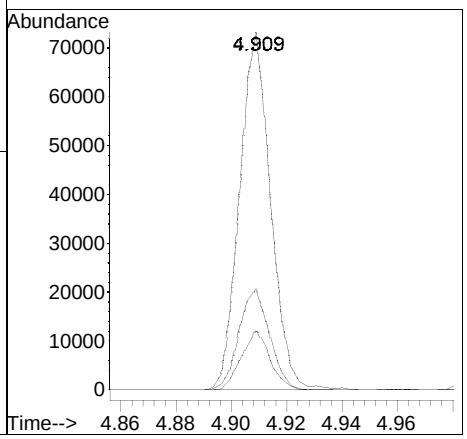


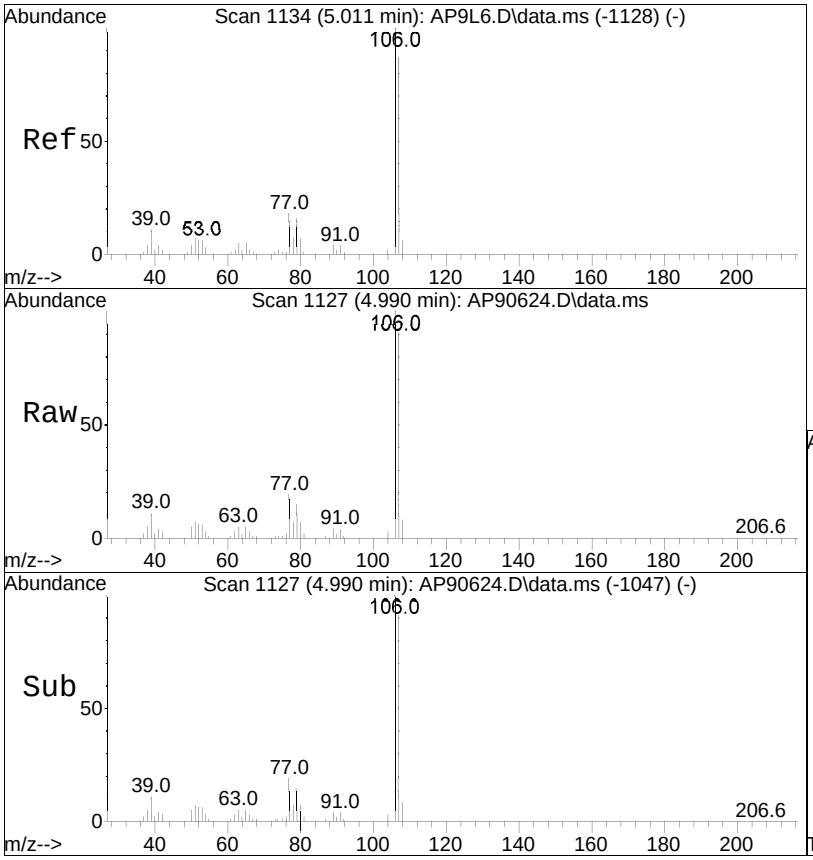


#29
Acetophenone
Concen: 4.81 ug/ml
RT: 4.909 min Scan# 1101
Delta R.T. 0.000 min
Lab File: AP90624.D
Acq: 24 Jun 2024 2:22 pm

Tgt Ion:105 Resp: 56519

Ion	Ratio	Lower	Upper
105	100		
120	15.4	20.5	30.7#
51	27.9	34.9	52.3#

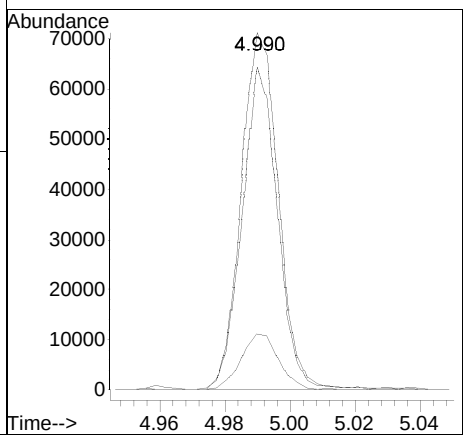


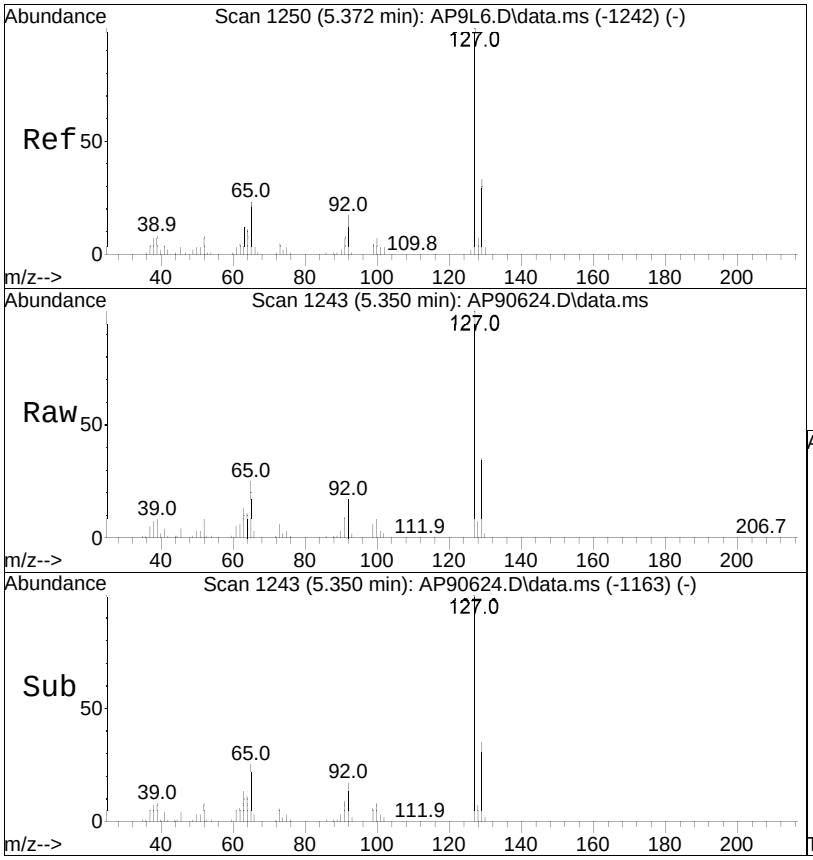


#30
m-Toluidine
Concen: 5.01 ug/ml
RT: 4.990 min Scan# 1127
Delta R.T. 0.000 min
Lab File: AP90624.D
Acq: 24 Jun 2024 2:22 pm

Tgt Ion:106 Resp: 56532

Ion	Ratio	Lower	Upper
106	100		
107	86.2	75.7	113.5
79	15.7	11.8	17.8

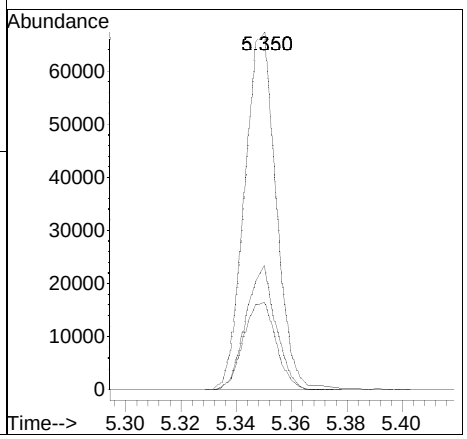


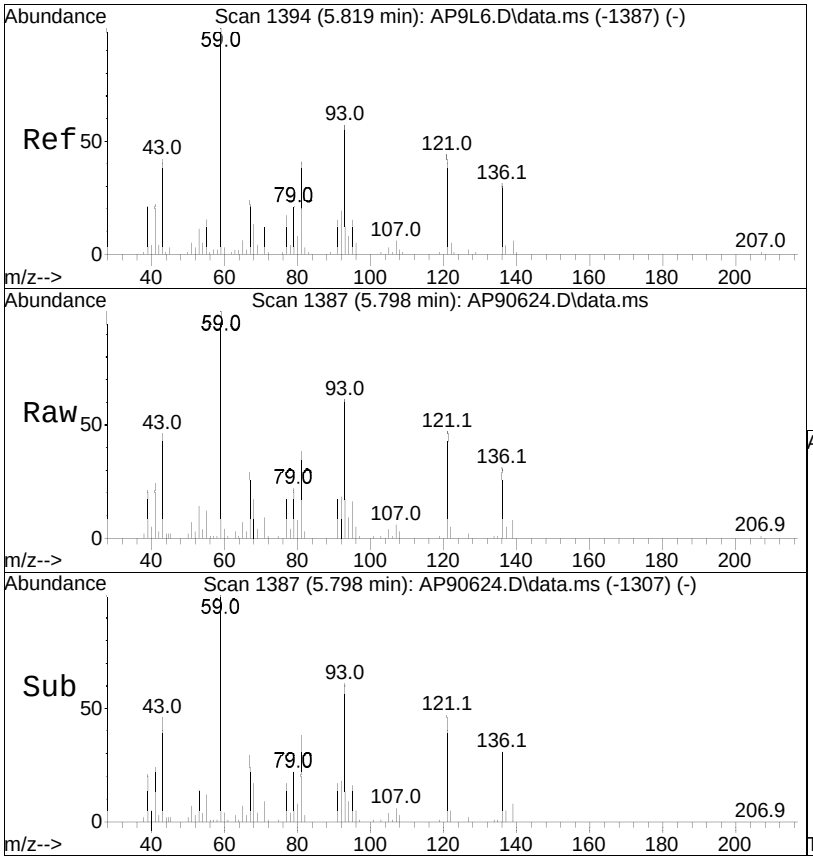


#31
2-Chloroaniline
Concen: 4.87 ug/ml
RT: 5.350 min Scan# 1243
Delta R.T. 0.000 min
Lab File: AP90624.D
Acq: 24 Jun 2024 2:22 pm

Tgt Ion:127 Resp: 53191

Ion	Ratio	Lower	Upper
127	100		
129	33.0	25.9	38.9
65	25.6	26.3	39.5#

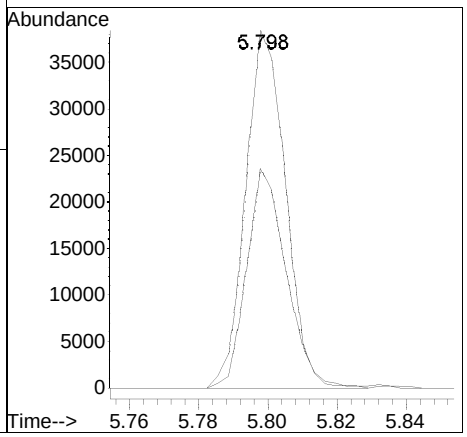


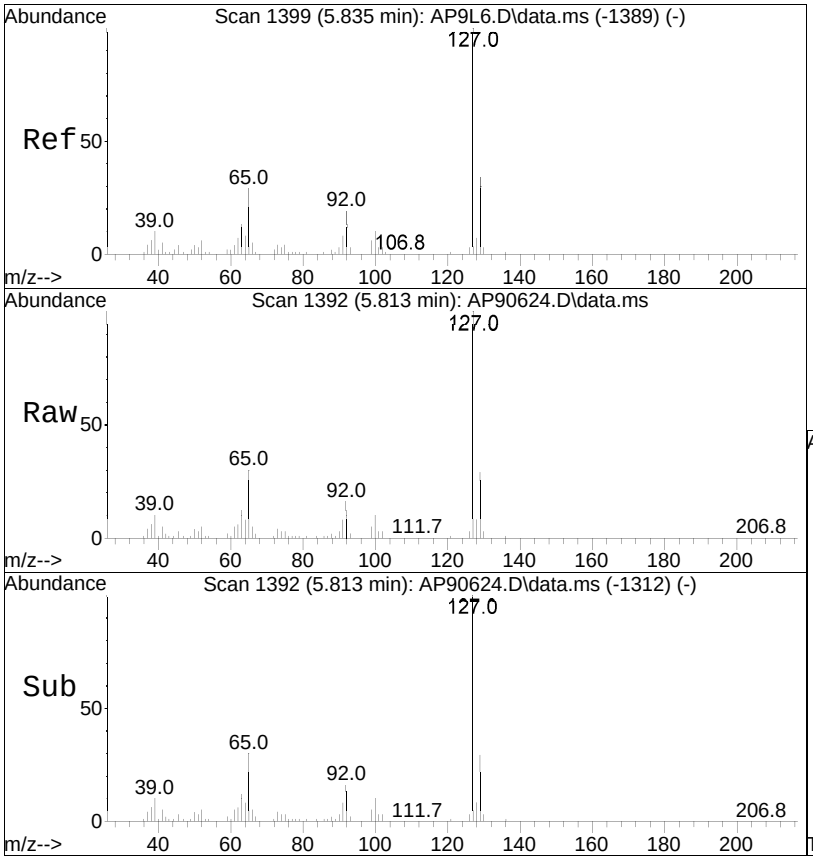


#56
a-Terpineol
Concen: 4.54 ug/ml
RT: 5.798 min Scan# 1387
Delta R.T. 0.000 min
Lab File: AP90624.D
Acq: 24 Jun 2024 2:22 pm

Tgt Ion: 59 Resp: 30576

Ion	Ratio	Lower	Upper
59	100		
93	61.1	35.6	53.4#

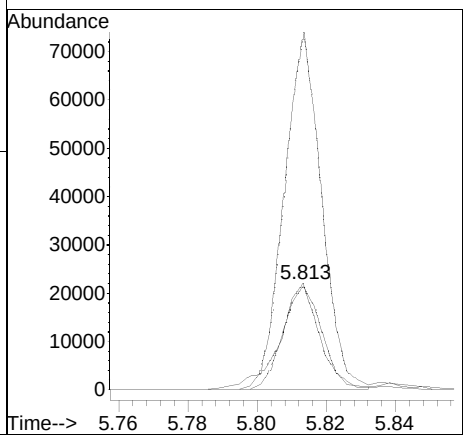


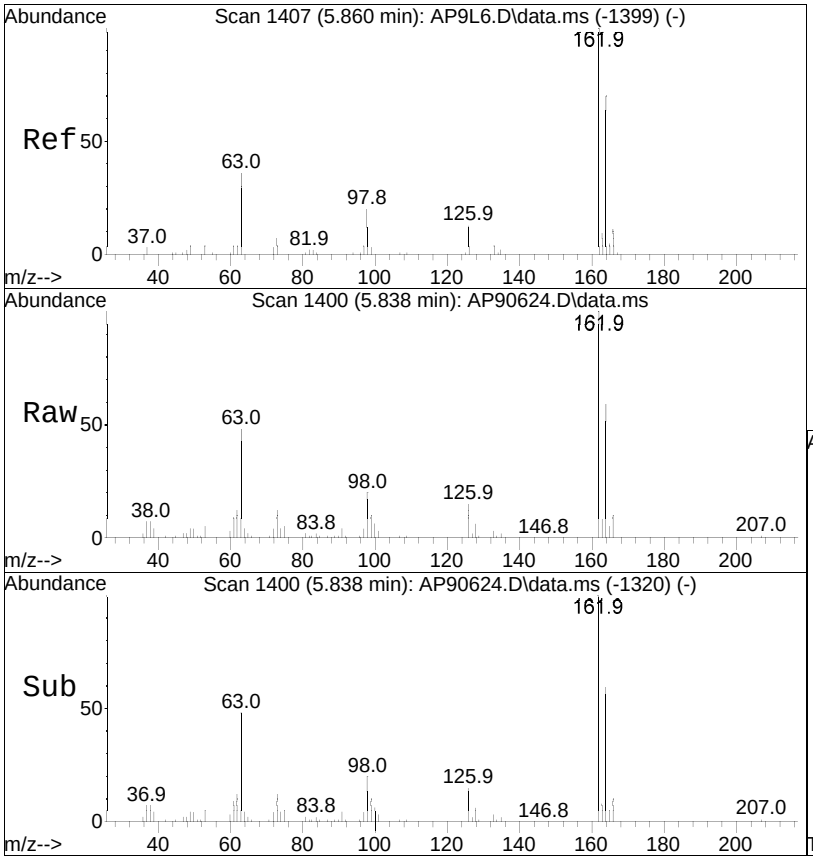


#57
3-Chloroaniline
Concen: 4.65 ug/ml
RT: 5.813 min Scan# 1392
Delta R.T. 0.000 min
Lab File: AP90624.D
Acq: 24 Jun 2024 2:22 pm

Tgt Ion: 65 Resp: 17447

Ion	Ratio	Lower	Upper
65	100		
127	320.9	243.2	364.8
129	95.4	78.8	118.2

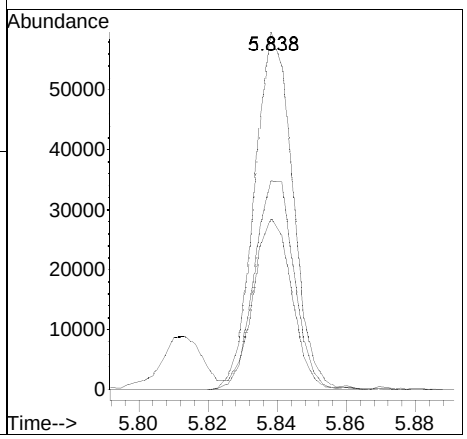


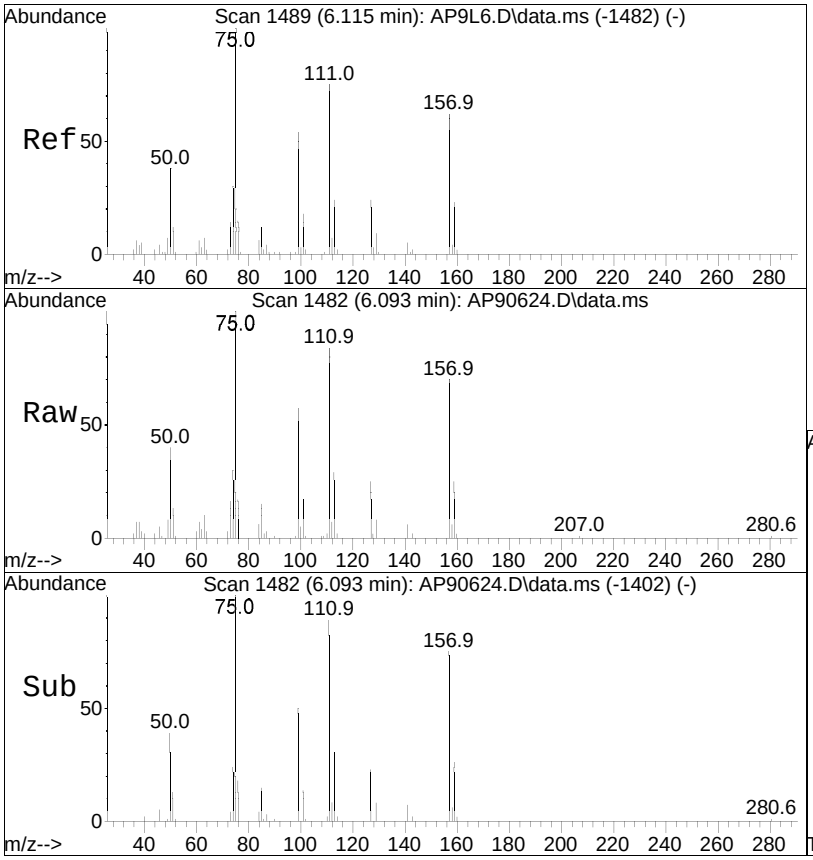


#58
2,6-Dichlorophenol
Concen: 4.88 ug/ml
RT: 5.838 min Scan# 1400
Delta R.T. 0.000 min
Lab File: AP90624.D
Acq: 24 Jun 2024 2:22 pm

Tgt Ion:162 Resp: 45833

Ion	Ratio	Lower	Upper
162	100		
164	60.7	51.1	76.7
63	48.7	60.8	91.2#

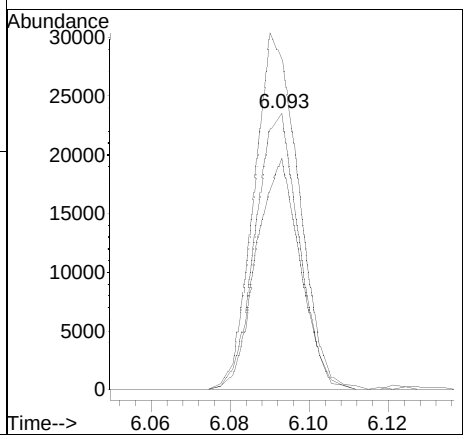


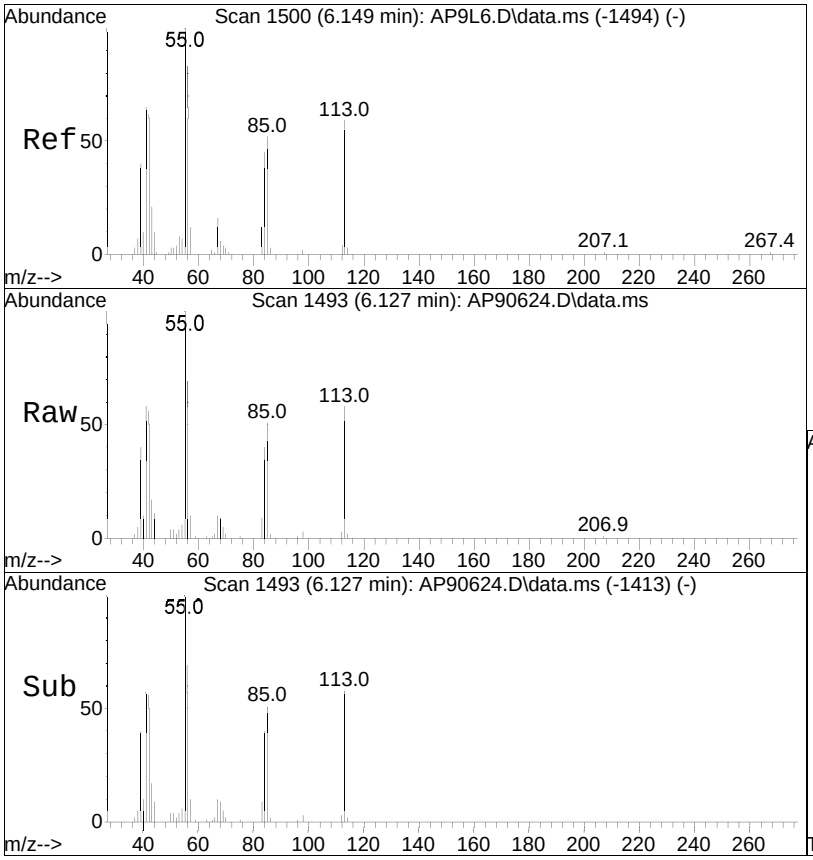


#59
1-chloro-2-nitrobenzene
Concen: 4.61 ug/ml
RT: 6.093 min Scan# 1482
Delta R.T. 0.000 min
Lab File: AP90624.D
Acq: 24 Jun 2024 2:22 pm

Tgt Ion:111 Resp: 17934

Ion	Ratio	Lower	Upper
111	100		
157	84.3	0.0	0.0#
75	132.4	28.2	42.2#

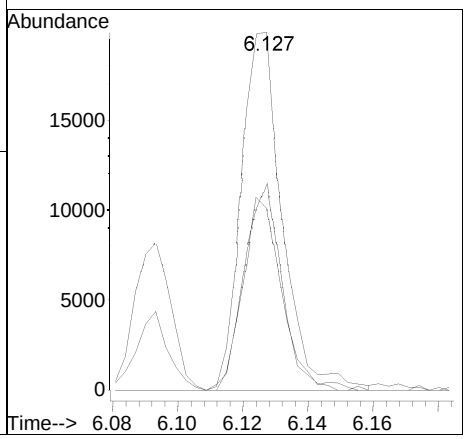


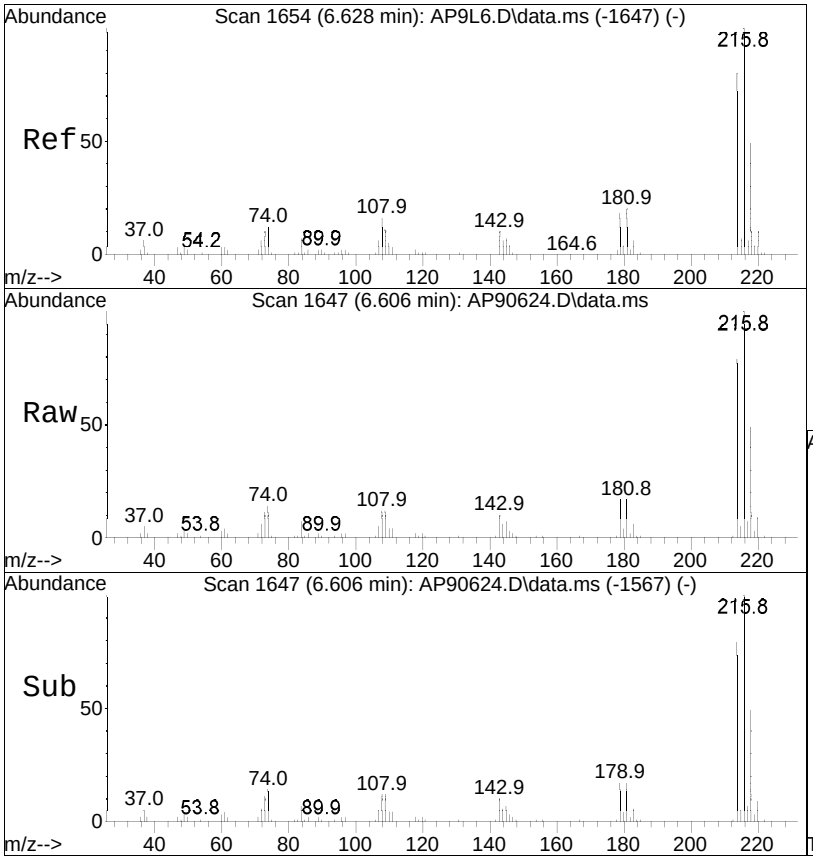


#60
Caprolactam
Concen: 5.18 ug/ml
RT: 6.127 min Scan# 1493
Delta R.T. 0.000 min
Lab File: AP90624.D
Acq: 24 Jun 2024 2:22 pm

Tgt Ion: 55 Resp: 17333

Ion	Ratio	Lower	Upper
55	100		
85	51.0	19.8	29.6#
113	52.8	29.6	44.4#

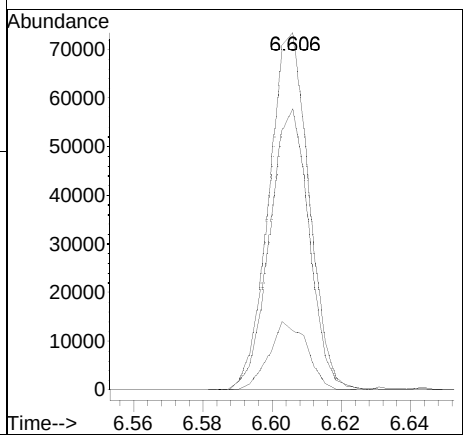


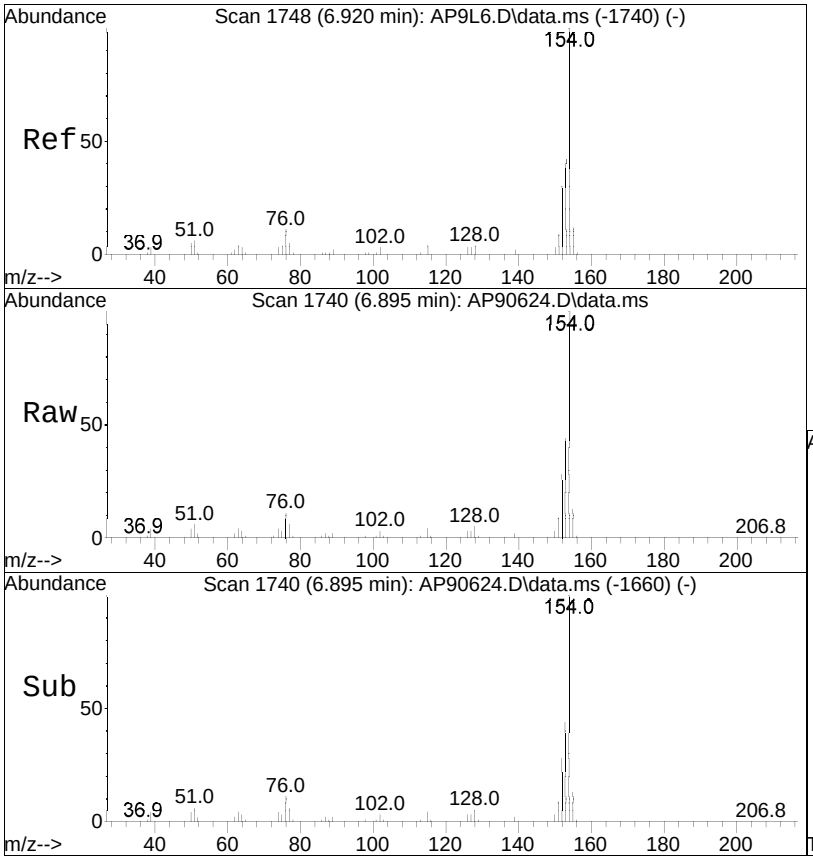


#61
1,2,4,5-Tetrachlorobenzene
Concen: 4.70 ug/ml
RT: 6.606 min Scan# 1647
Delta R.T. 0.000 min
Lab File: AP90624.D
Acq: 24 Jun 2024 2:22 pm

Tgt Ion:216 Resp: 58764

Ion	Ratio	Lower	Upper
216	100		
214	78.3	63.7	95.5
179	18.4	19.0	28.6#

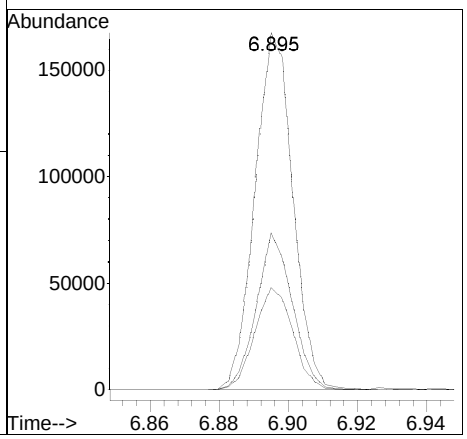


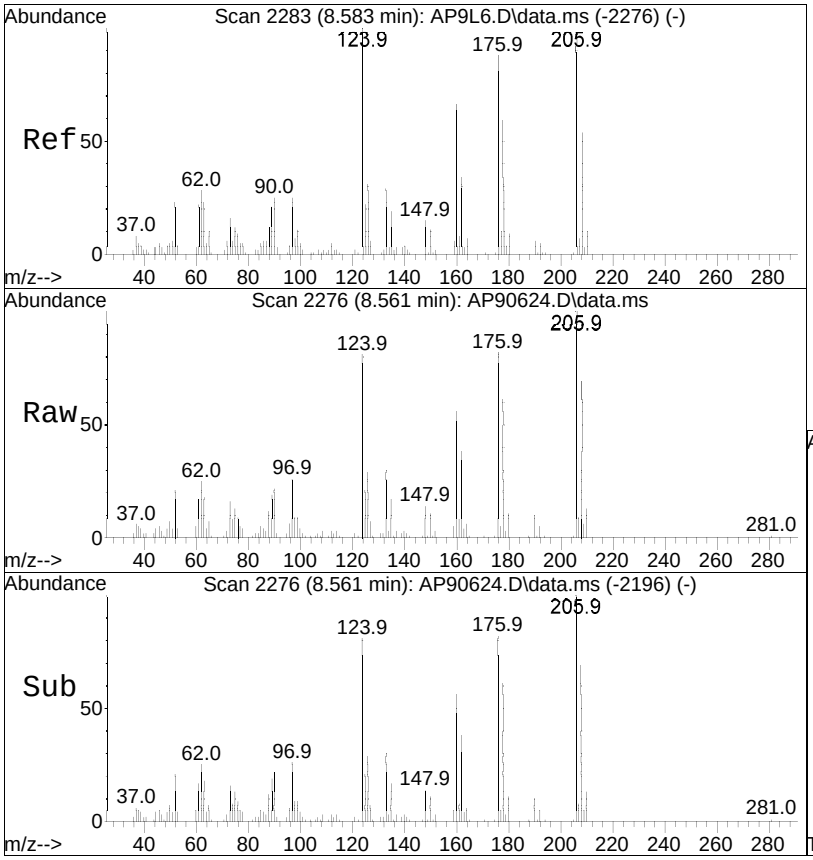


#62
Biphenyl
Concen: 4.75 ug/ml
RT: 6.895 min Scan# 1740
Delta R.T. 0.000 min
Lab File: AP90624.D
Acq: 24 Jun 2024 2:22 pm

Tgt Ion:154 Resp: 127002

Ion	Ratio	Lower	Upper
154	100		
153	42.0	32.3	48.5
152	29.1	22.5	33.7

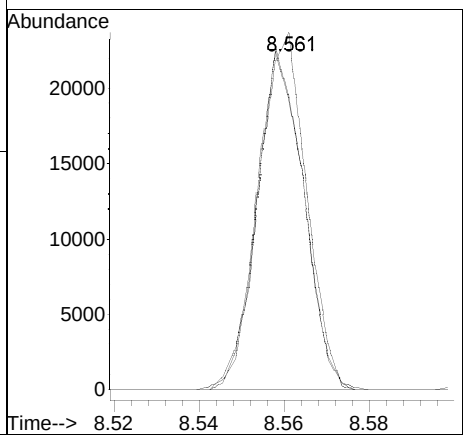


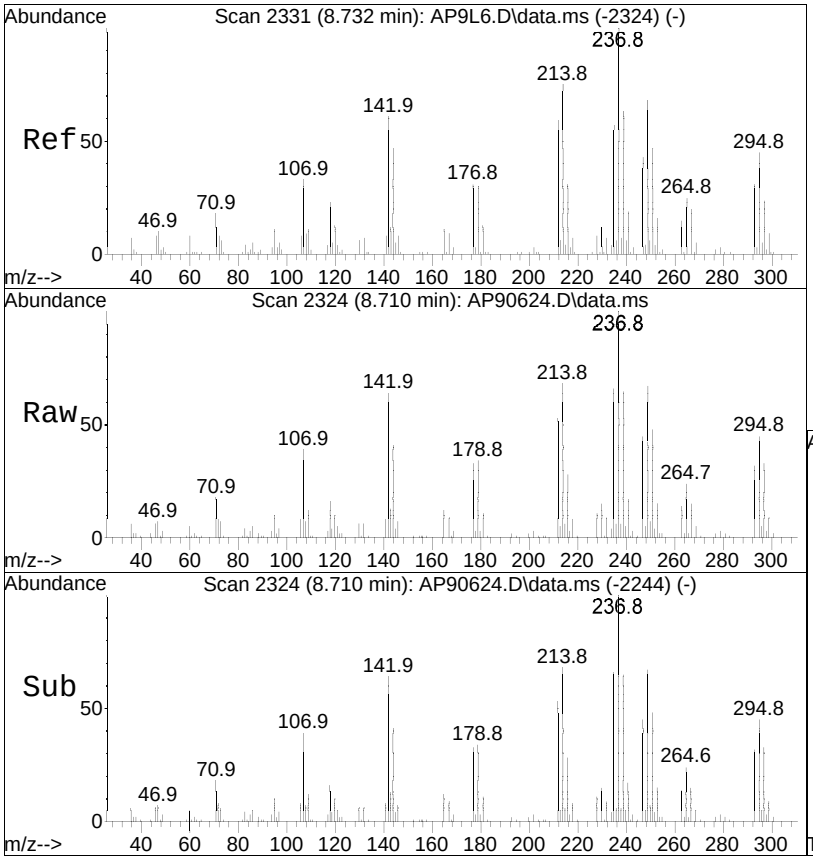


#84
Dichloran
Concen: 4.52 ug/ml
RT: 8.561 min Scan# 2276
Delta R.T. 0.000 min
Lab File: AP90624.D
Acq: 24 Jun 2024 2:22 pm

Tgt Ion:206 Resp: 18411

Ion	Ratio	Lower	Upper
206	100		
176	92.9	104.6	157.0#
124	93.5	130.5	195.7#

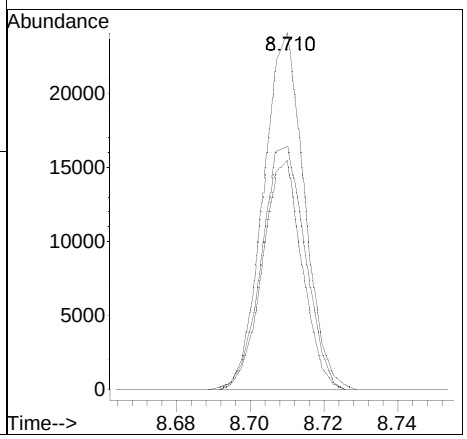


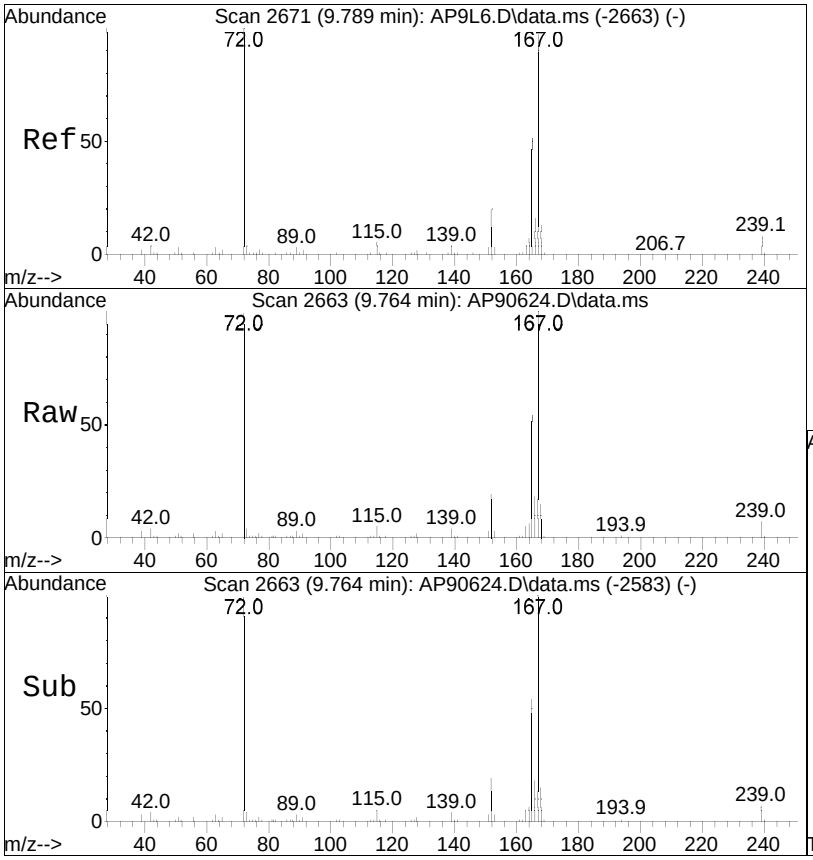


#85
Pentachloronitrobenzene
Concen: 4.89 ug/ml
RT: 8.710 min Scan# 2324
Delta R.T. 0.000 min
Lab File: AP90624.D
Acq: 24 Jun 2024 2:22 pm

Tgt Ion:237 Resp: 18574

Ion	Ratio	Lower	Upper
237	100		
142	62.5	77.0	115.4#
214	72.4	58.2	87.4

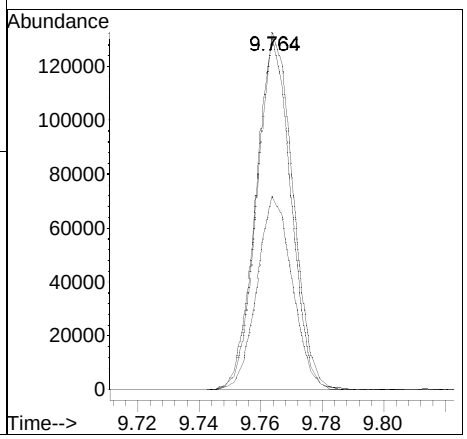




#99
Diphenamid
Concen: 4.88 ug/ml
RT: 9.764 min Scan# 2663
Delta R.T. 0.000 min
Lab File: AP90624.D
Acq: 24 Jun 2024 2:22 pm

Tgt Ion:167 Resp: 106070

Ion	Ratio	Lower	Upper
167	100		
72	96.5	109.7	164.5#
165	54.1	41.8	62.6



Manual Integration Report

Data Path	: I:\8270\Dakota\240624RVT\	QMethod	: FS240618RVT_14D_Dakota.m
Data File	: AP90624.D	Operator	: Dakota:jg
Date Inj'd	: 6/24/2024 2:22 pm	Instrument	: Dakota
Sample	: WG1938645-4,32,,AP9 10776	Quant Date	: 6/25/2024 8:22 pm

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

Evaluate Continuing Calibration Report

Data Path : I:\8270\Dakota\240624RVT\
Data File : ADP0624.D
Acq On : 24 Jun 2024 2:45 pm
Operator : Dakota:jg
Sample : WG1938645-5,32,,ADP 10751 HNY0619A
Misc : WG1938645,,ical21225
ALS Vial : 98 Sample Multiplier: 1

Quant Time: Jun 25 20:21:19 2024
Quant Method : I:\8270\Dakota\240624RVT\FS240618RVT_14D_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Jun 25 20:11:49 2024
Response via : Initial Calibration

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

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(min)
32	I	IS3_1,4-Dichlorobenzene-d4		1.000	1.000	0.0	93	0.00
33	T	1,4-Dioxane		0.450	0.400	11.1	92	0.00
34	T	n-Decane		1.059	0.886	16.3	91	0.00
86	I	IS3_Acenaphthene-d10		1.000	1.000	0.0	94	0.00
87	T	Atrazine		0.450	0.419	6.9	102	0.00
100	I	IS3_Phenanthrene-d10		1.000	1.000	0.0	97	0.00
101	T	n-Octadecane		0.319	0.275	13.8	95	0.00
102	T	Parathion	*	5.000	4.340	13.2	100	0.00
103	T	3,3'-Dimethylbenzidine		0.735	0.716	2.6	102	0.00

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\240624RVT\
Data File : ADP0624.D
Acq On : 24 Jun 2024 2:45 pm
Operator : Dakota:jg
Sample : WG1938645-5,32,,ADP 10751 HNY0619A
Misc : WG1938645,,ical21225
ALS Vial : 98 Sample Multiplier: 1

Quant Time: Jun 25 20:21:19 2024
Quant Method : I:\8270\Dakota\240624RVT\FS240618RVT_14D_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Jun 25 20:11:49 2024
Response via : Initial Calibration

Sub List : ADPical_REV2 - ADP sublist

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
	Internal Standards						
32)	IS3_1,4-Dichlorobenzen...	4.505	152	26042	4.000	ug/ml	0.00
86)	IS3_Acenaphthene-d10	7.433	164	63201	4.000	ug/ml	0.00
100)	IS3_Phenanthrene-d10	8.856	188	157977	4.000	ug/ml	0.00
	System Monitoring Compounds						
	Target Compounds						Qvalue
33)	1,4-Dioxane	1.583	88	13007	4.439	ug/ml#	37
34)	n-Decane	4.402	57	28832	4.182	ug/ml#	27
87)	Atrazine	8.639	200	33115	4.657	ug/ml	92
101)	n-Octadecane	8.850	57	54401	4.313	ug/ml#	1
102)	Parathion	9.646	109	16227	4.340	ug/ml	90
103)	3,3'-Dimethylbenzidine	10.908	212	141479	4.875	ug/ml	98

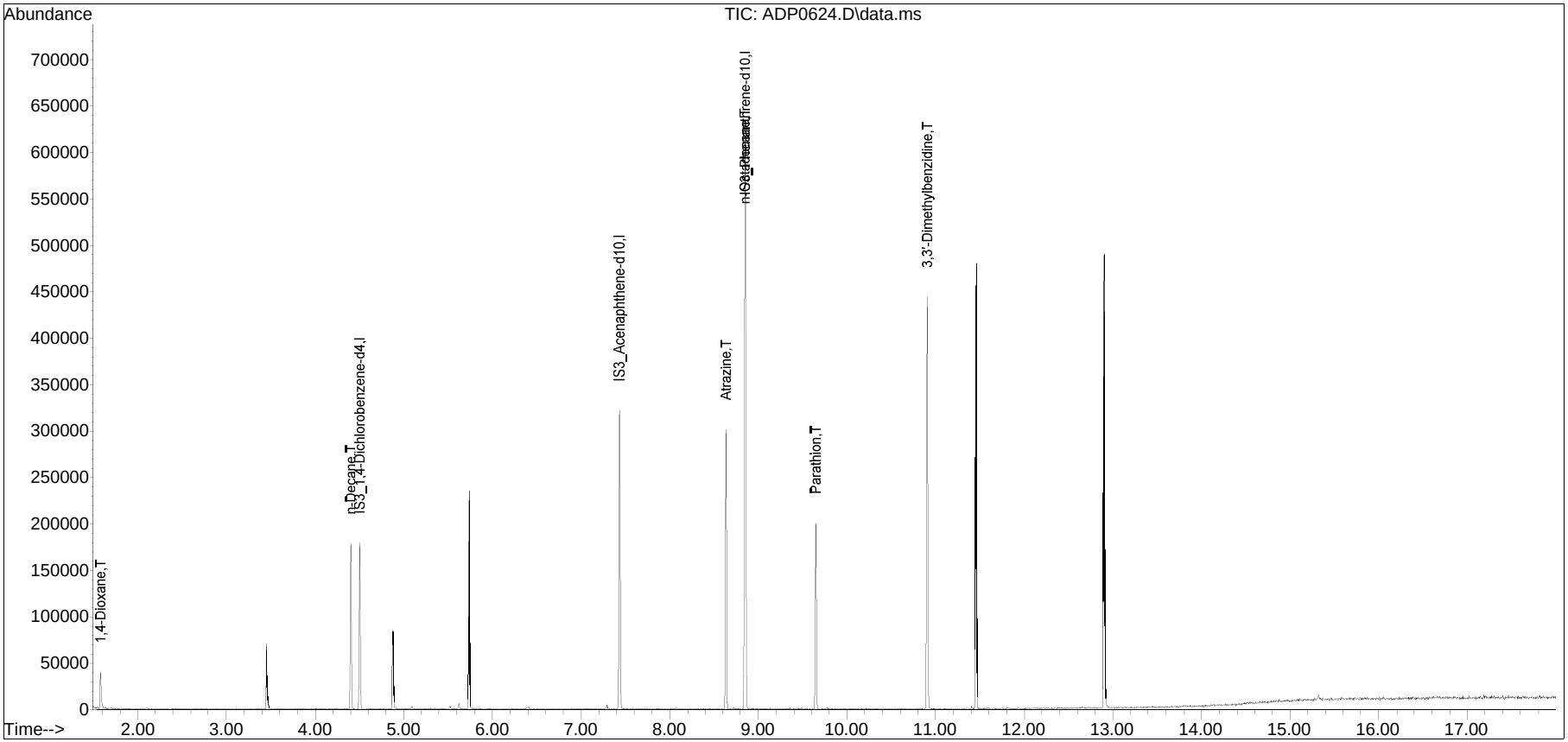
(#) = qualifier out of range (m) = manual integration (+) = signals summed

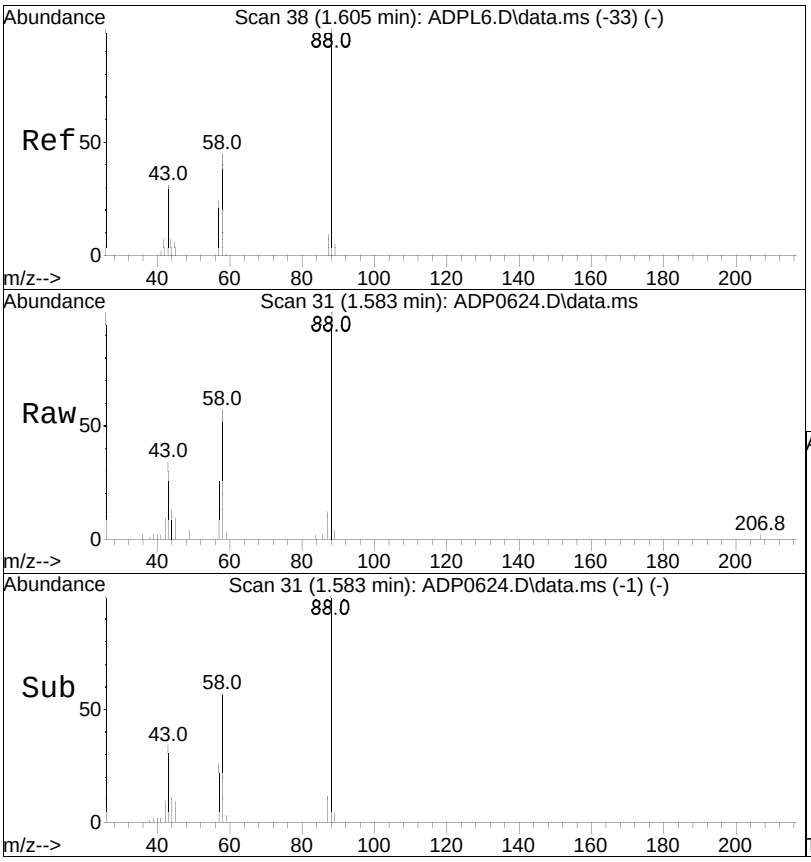
Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\240624RVT\
Data File : ADP0624.D
Acq On : 24 Jun 2024 2:45 pm
Operator : Dakota:jg
Sample : WG1938645-5,32,,ADP 10751 HNY0619A
Misc : WG1938645,,ical21225
ALS Vial : 98 Sample Multiplier: 1

Quant Time: Jun 25 20:21:19 2024
Quant Method : I:\8270\Dakota\240624RVT\FS240618RVT_14D_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Jun 25 20:11:49 2024
Response via : Initial Calibration

Sub List : ADPical_REV2 - ADP sublist

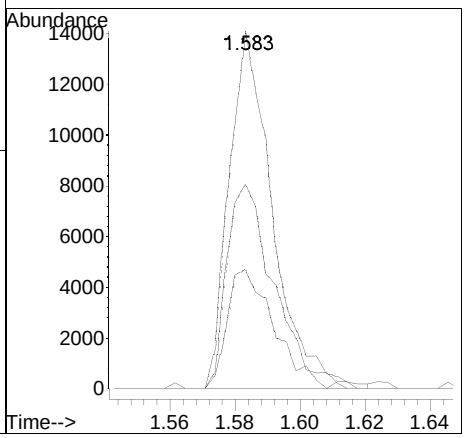


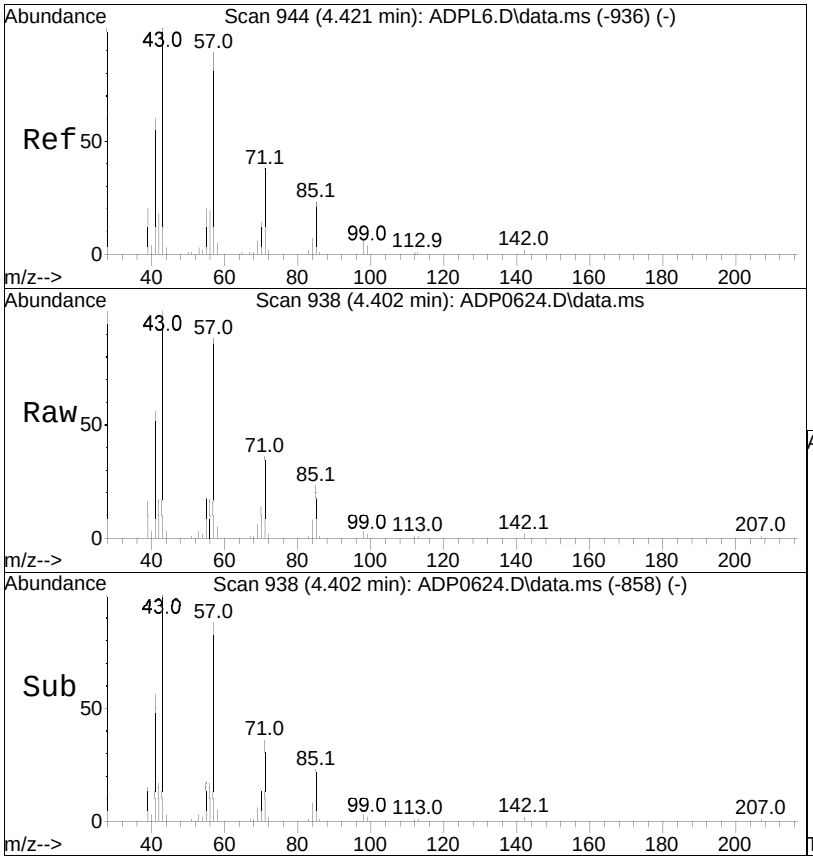


#33
1,4-Dioxane
Concen: 4.44 ug/ml
RT: 1.583 min Scan# 31
Delta R.T. 0.000 min
Lab File: ADP0624.D
Acq: 24 Jun 2024 2:45 pm

Tgt Ion: 88 Resp: 13007

Ion	Ratio	Lower	Upper
88	100		
58	62.1	16.0	24.0#
43	36.0	16.0	24.0#

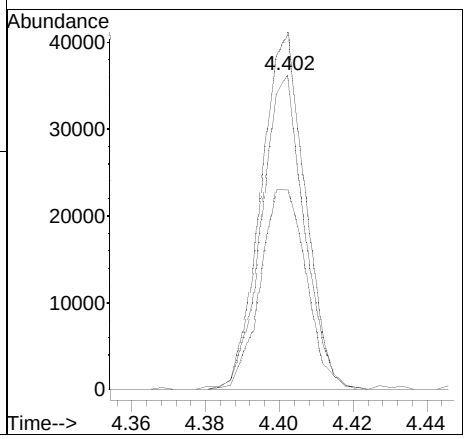


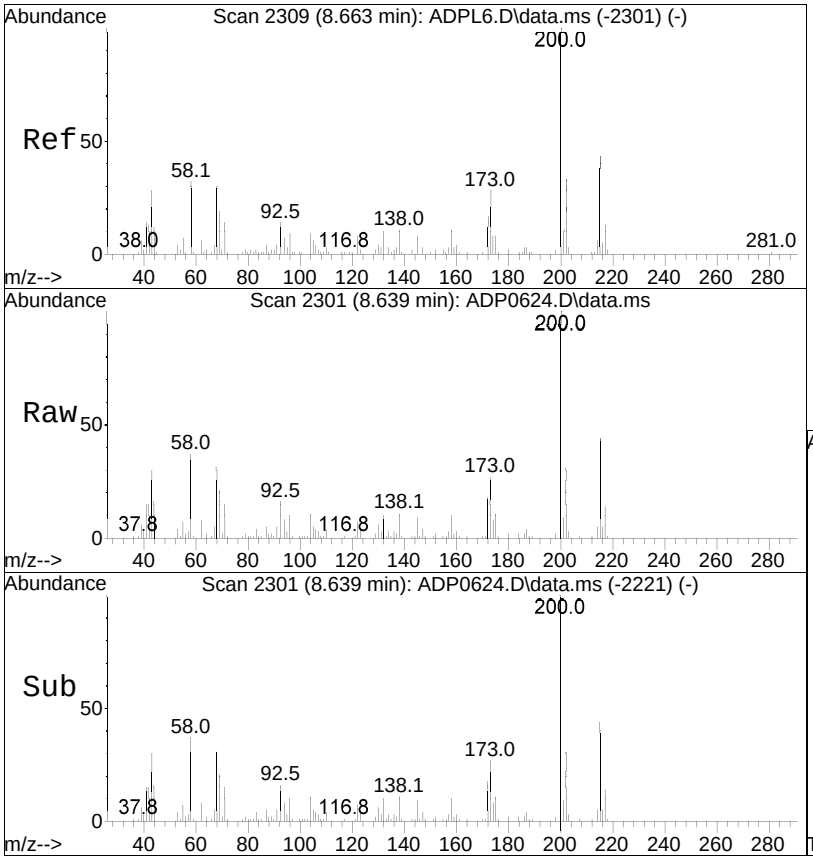


#34
n-Decane
Concen: 4.18 ug/ml
RT: 4.402 min Scan# 938
Delta R.T. 0.000 min
Lab File: ADP0624.D
Acq: 24 Jun 2024 2:45 pm

Tgt Ion: 57 Resp: 28832

Ion	Ratio	Lower	Upper
57	100		
43	117.8	0.2	0.2#
41	69.1	0.2	0.2#

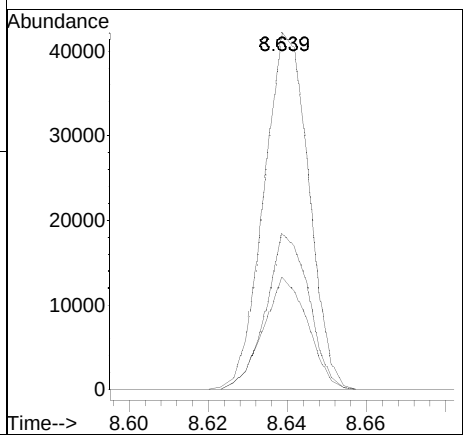


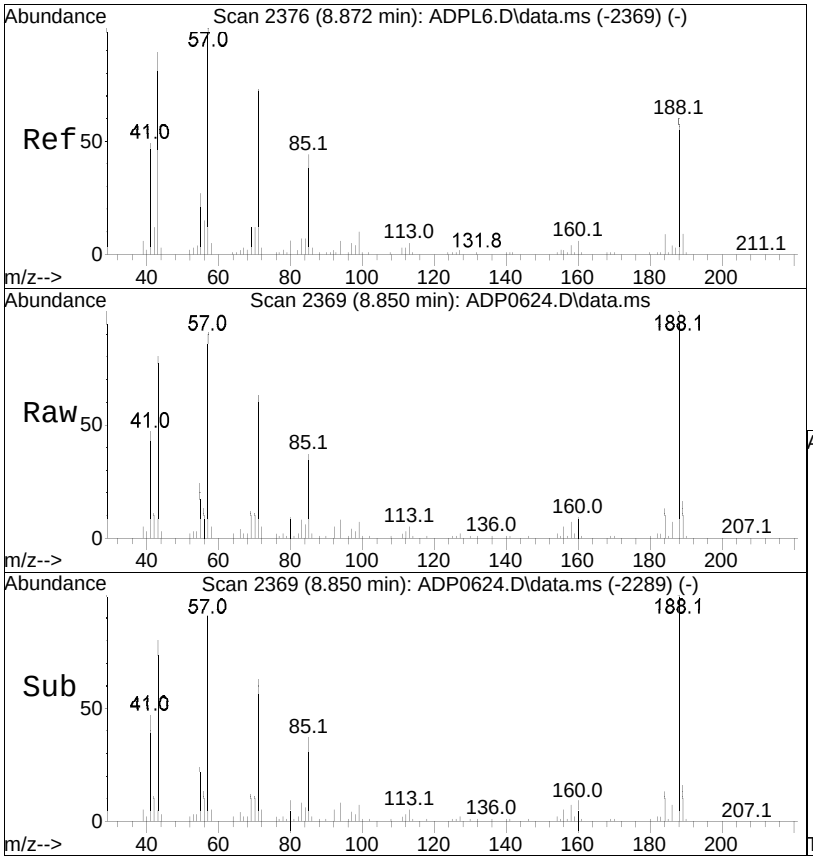


#87
Atrazine
Concen: 4.66 ug/ml
RT: 8.639 min Scan# 2301
Delta R.T. 0.000 min
Lab File: ADP0624.D
Acq: 24 Jun 2024 2:45 pm

Tgt Ion:200 Resp: 33115

Ion	Ratio	Lower	Upper
200	100		
202	31.5	25.8	38.6
215	41.9	40.2	60.4

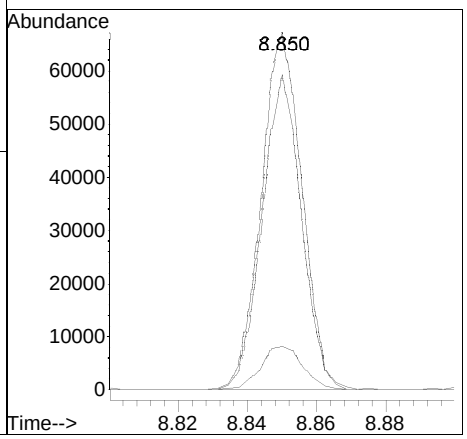


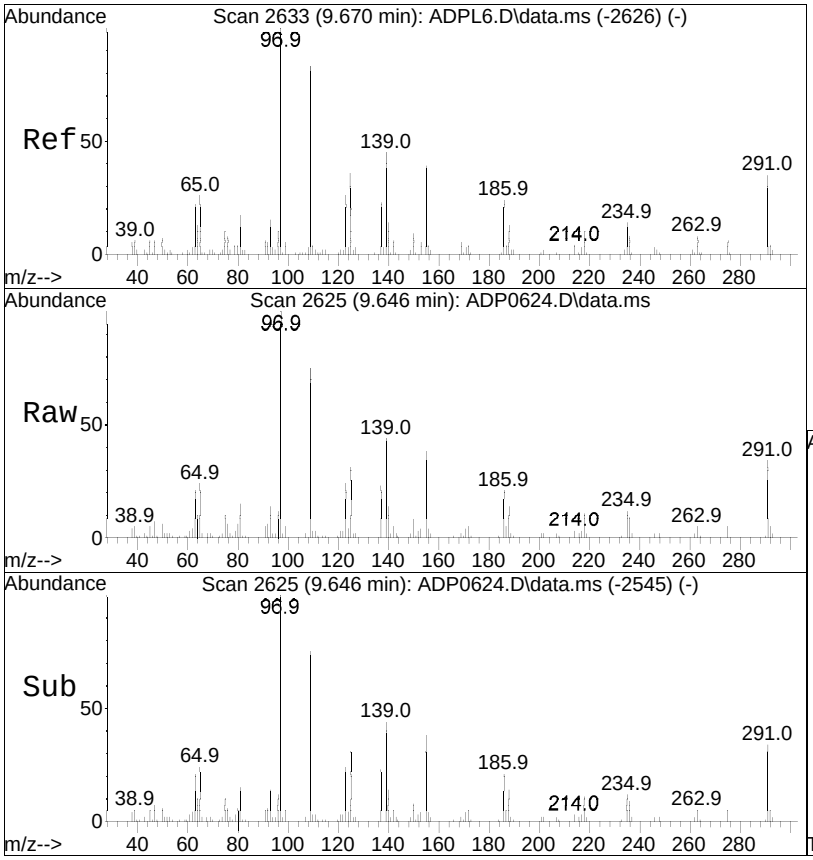


#101
n-Octadecane
Concen: 4.31 ug/ml
RT: 8.850 min Scan# 2369
Delta R.T. 0.000 min
Lab File: ADP0624.D
Acq: 24 Jun 2024 2:45 pm

Tgt Ion: 57 Resp: 54401

Ion	Ratio	Lower	Upper
57	100		
43	85.1	9.0	13.6#
70	12.5	0.2	0.2#

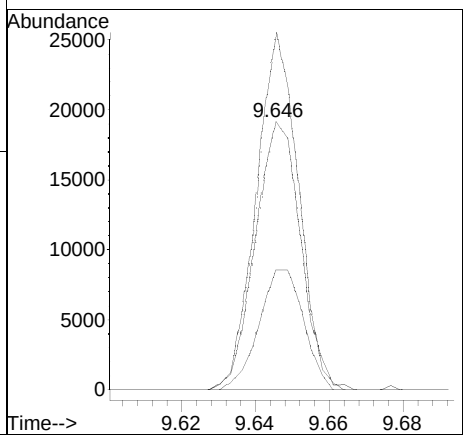


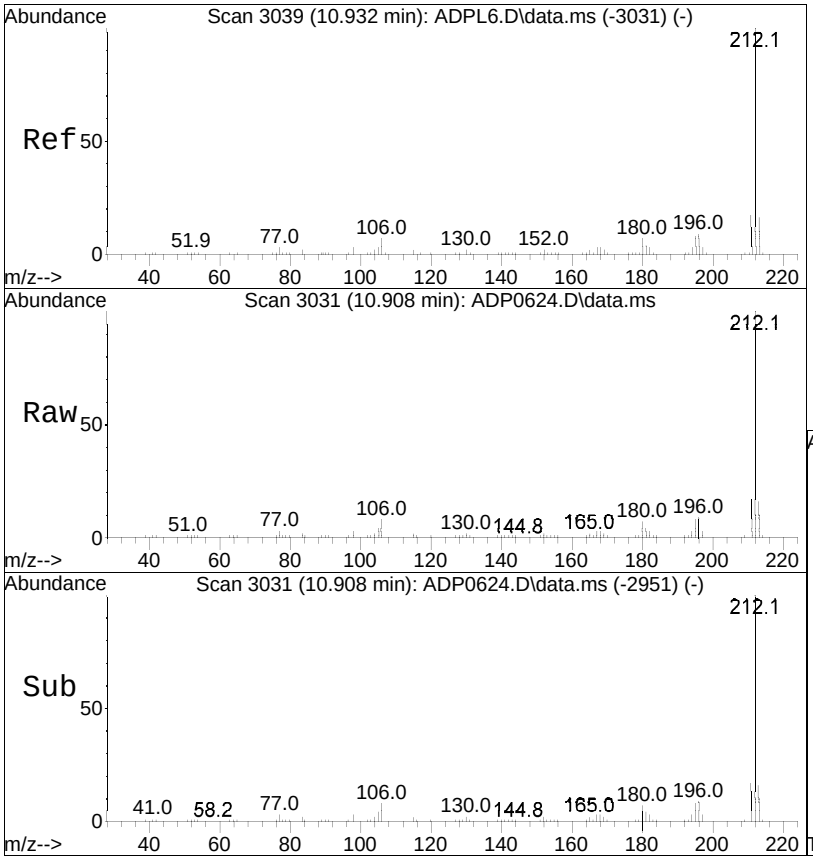


#102
Parathion
Concen: 4.34 ug/ml
RT: 9.646 min Scan# 2625
Delta R.T. 0.000 min
Lab File: ADP0624.D
Acq: 24 Jun 2024 2:45 pm

Tgt Ion:109 Resp: 16227

Ion	Ratio	Lower	Upper
109	100		
97	123.2	87.4	131.2
291	44.5	34.2	51.2

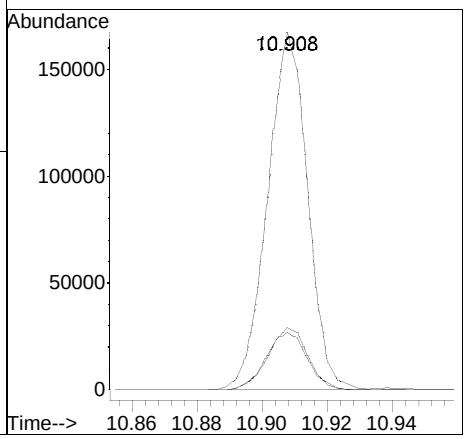




#103
3,3'-Dimethylbenzidine
Concen: 4.88 ug/ml
RT: 10.908 min Scan# 3031
Delta R.T. 0.000 min
Lab File: ADP0624.D
Acq: 24 Jun 2024 2:45 pm

Tgt Ion:212 Resp: 141479

Ion	Ratio	Lower	Upper
212	100		
211	17.7	12.9	19.3
213	16.5	13.2	19.8



Manual Integration Report

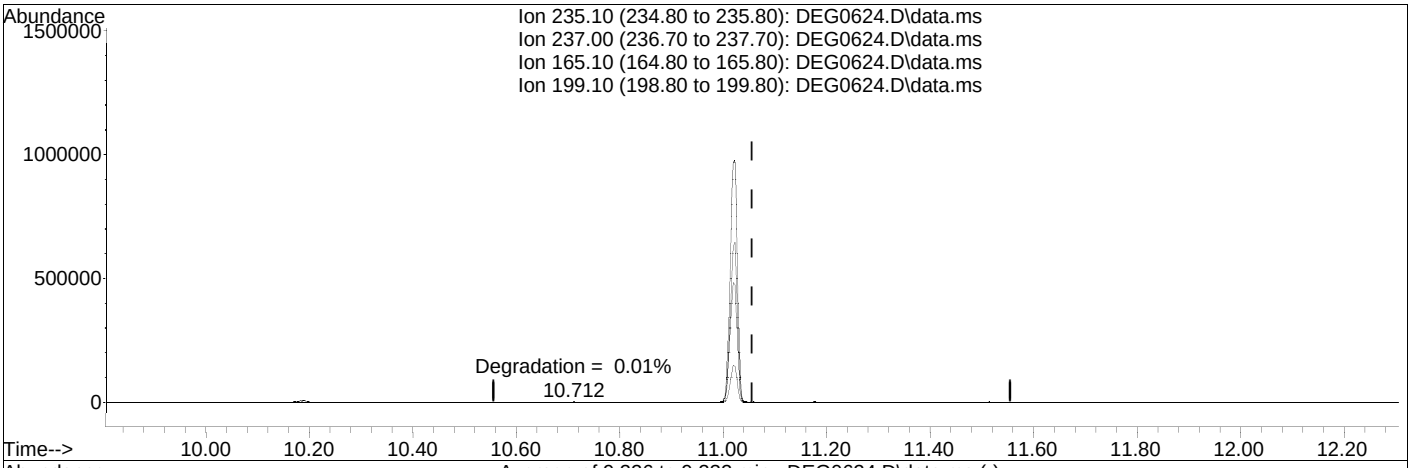
Data Path	: I:\8270\Dakota\240624RVT\	QMethod	: FS240618RVT_14D_Dakota.m
Data File	: ADP0624.D	Operator	: Dakota:jg
Date Inj'd	: 6/24/2024 2:45 pm	Instrument	: Dakota
Sample	: WG1938645-5,32,,ADP 10751	Quant Date	: 6/25/2024 8:22 pm

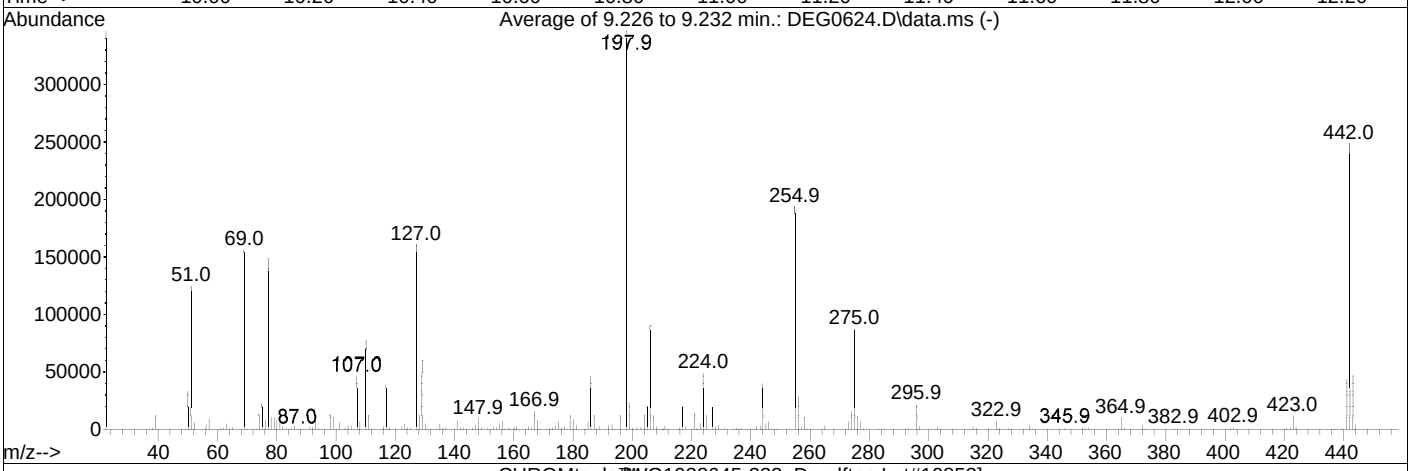
There are no manual integrations or false positives in this file.

Quantitation Report (Qedit)

Data Path : I:\8270\Dakota\240624RVT\
Data File : DEG0624.D
Acq On : 24 Jun 2024 1:38 pm
Operator : Dakota:jg
Sample : WG1938645-2,32,,Degdftpp Lot#10853
Misc : WG1938645,,ical21225
ALS Vial : 100 Sample Multiplier: 1

Quant Time: Jun 24 14:00:40 2024
Quant Method : I:\8270\Dakota\240624RVT\DftppDakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Jun 13 07:04:58 2024
Response via : Initial Calibration





CHROMtools [WG1938645-232,,Degdftpp Lot#10853]

(6) DDT (T)

11.023min (-0.033) 147.90

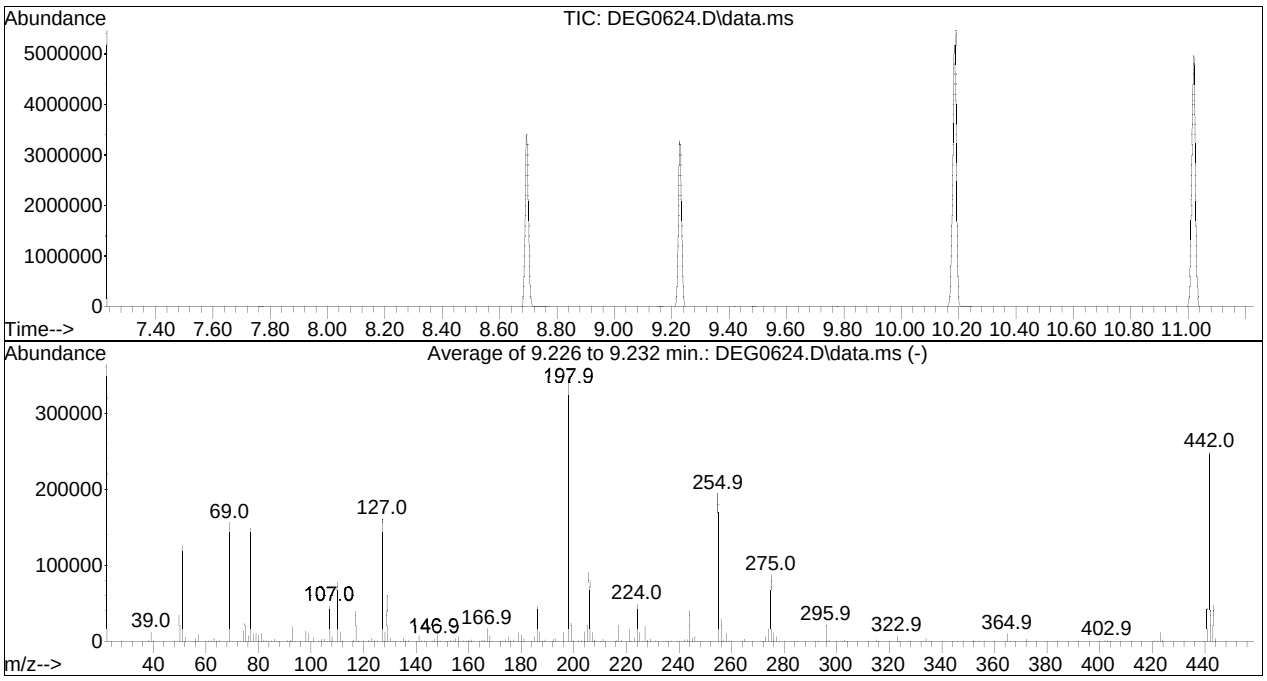
response 901550

Ion	Exp%	Act%
235.10	100.00	100.00
237.00	66.20	64.87
165.10	47.40	48.67
199.10	13.90	14.52

Data Path : I:\8270\Dakota\240624RVT\
Data File : DEG0624.D
Acq On : 24 Jun 2024 1:38 pm
Operator : Dakota:HNY
Sample : WG1938645-1,32,,Degdftpp Lot#10853
Misc : WG1938645,,ical
ALS Vial : 100 Sample Multiplier: 1

Integration File: rteint.p

Method : I:\8270\dakota\240624RVT\FS240618RVT_14D_Dakota.m
Title : Semivolatiles by GC/MS by modified 8270
Last Update : Mon Jun 24 14:49:38 2024



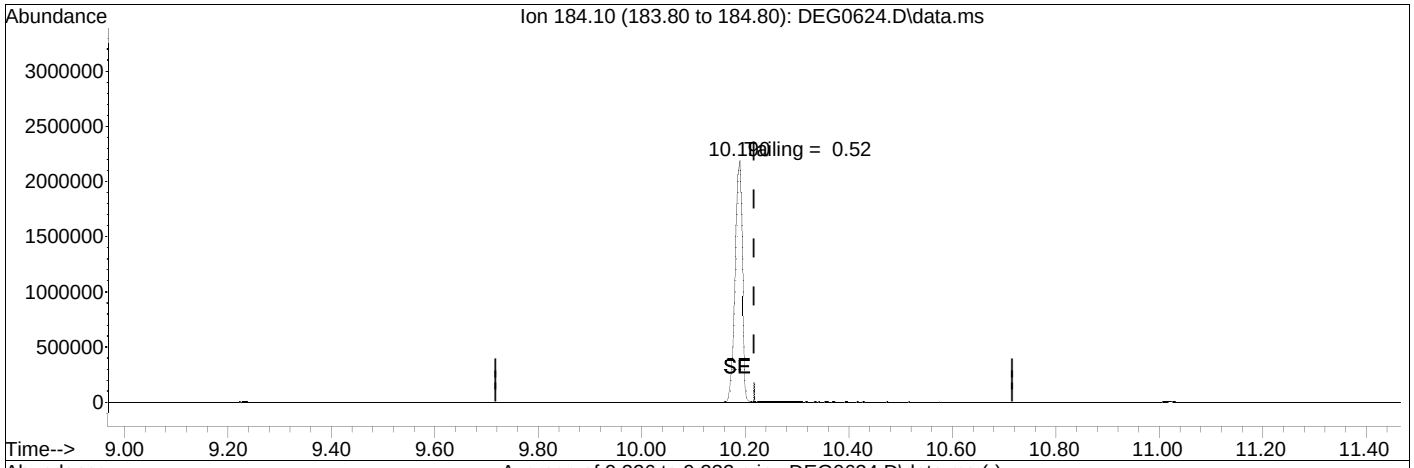
Spectrum Information: Average of 9.226 to 9.232 min.

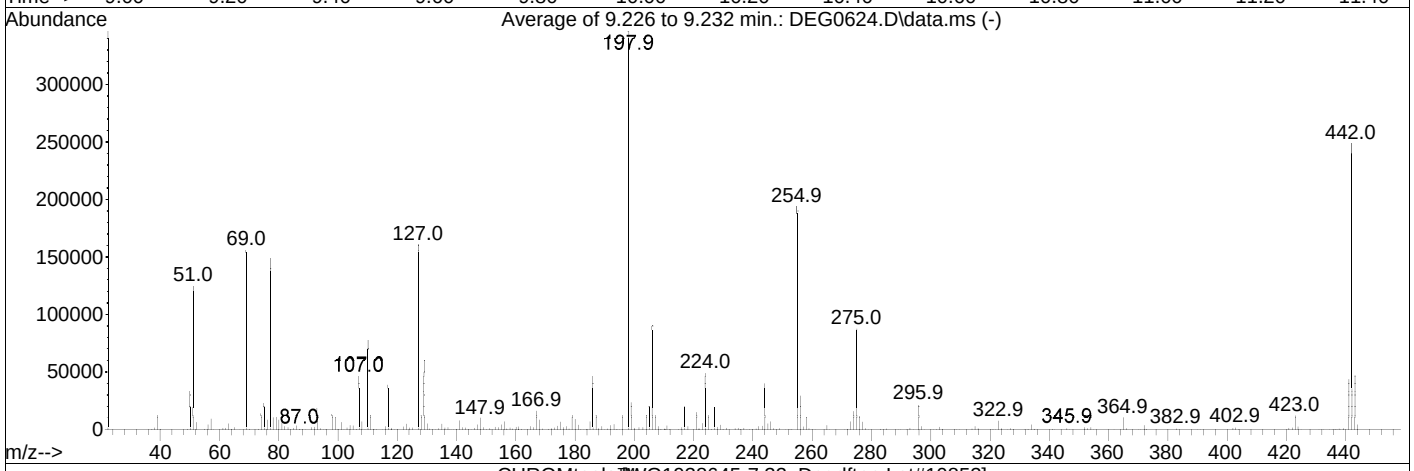
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	36.0	124613	PASS
68	69	0.00	2	0.0	0	PASS
69	69	100	100	100.0	155819	PASS
70	69	0.00	2	0.6	917	PASS
127	198	10	80	46.4	160661	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	346475	PASS
199	198	5	9	6.9	23781	PASS
275	198	10	60	25.3	87715	PASS
365	198	1	100	2.9	9984	PASS
441	442	0.01	24	17.6	43613	PASS
442	198	50	100	71.7	248363	PASS
443	442	15	24	19.1	47560	PASS

Quantitation Report (Qedit)

Data Path : I:\8270\Dakota\240624RVT\
Data File : DEG0624.D
Acq On : 24 Jun 2024 1:38 pm
Operator : Dakota:jg
Sample : WG1938645-6,32,,Degdftpp Lot#10853
Misc : WG1938645,,ical
ALS Vial : 100 Sample Multiplier: 1

Quant Time: Jun 24 14:00:40 2024
Quant Method : I:\8270\Dakota\240624RVT\DftppDakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Jun 13 07:04:58 2024
Response via : Initial Calibration





CHROMtools [WG1938645-7,32,,Degdftpp Lot#10853]

(3) Benzidine (T)

10.190min (-0.027) 193.32

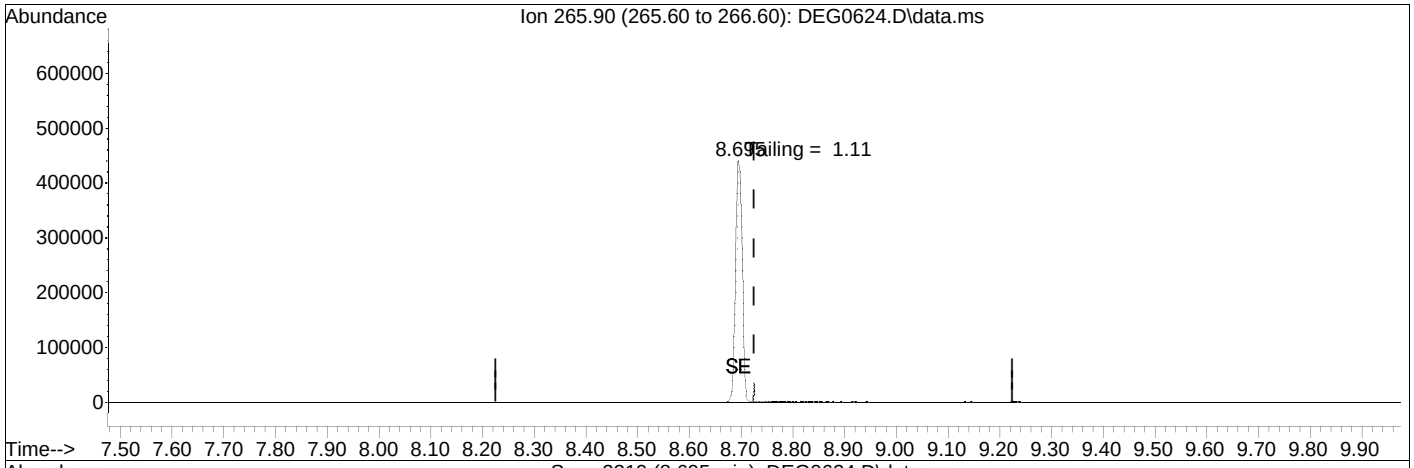
response 1968004

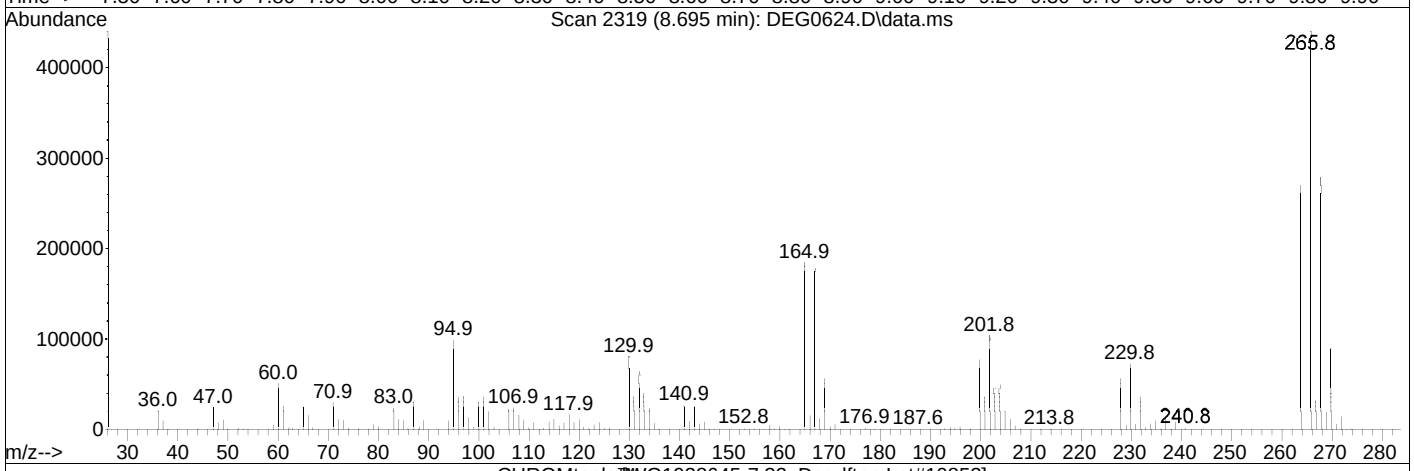
Ion	Exp%	Act%
184.10	100.00	100.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\8270\Dakota\240624RVT\
Data File : DEG0624.D
Acq On : 24 Jun 2024 1:38 pm
Operator : Dakota:jg
Sample : WG1938645-7,32,,Degdftpp Lot#10853
Misc : WG1938645,,ical
ALS Vial : 100 Sample Multiplier: 1

Quant Time: Jun 24 14:00:40 2024
Quant Method : I:\8270\Dakota\240624RVT\DftppDakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Jun 13 07:04:58 2024
Response via : Initial Calibration





CHROMtools [WG1938645-7,32,,Degdftpp Lot#10853]

(1) Pentachlorophenol (T)

8.695min (-0.030) 172.64

response 362596

Ion	Exp%	Act%
265.90	100.00	100.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Alpha Geoscience		**Lab Number**	: L2434679	
Project Name	: RANCO MINE		**Project Number**	: 12123	
Instrument ID	: DAKOTA		**Calibration Date**	: 06/24/24 14:00	
Lab File ID	: ABN0624		**Init. Calib. Date(s)**	: 06/18/24	06/19/24
Sample No	: WG1938645-3		**Init. Calib. Times**	: 12:22	00:04
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
IS1_1,4-Dichlorobenzene-d4	1	1	-	0	20	89	0
n-Nitrosodimethylamine	0.695	0.688	-	1	20	93	0
Pyridine	1.127	1.062	-	5.8	20	91	0
2-Fluorophenol	1.028	0.988	-	3.9	20	87	0
Aniline	1.706	1.716	-	-0.6	20	95	0
2-Chlorophenol	1.15	1.145	-	0.4	20	89	0
Phenol-d6	1.297	1.271	-	2	20	93	0
Phenol	1.512	1.519	-	-0.5	20	93	0
Bis(2-chloroethyl)ether	0.991	0.974	-	1.7	20	91	0
1,3-Dichlorobenzene	1.48	1.472	-	0.5	20	91	0
1,4-Dichlorobenzene	1.533	1.509	-	1.6	20	92	0
1,2-Dichlorobenzene	1.454	1.478	-	-1.7	20	95	0
Benzyl alcohol	0.973	0.988	-	-1.5	20	90	0
Bis(2-chloroisopropyl)ethe	1.478	1.438	-	2.7	20	92	0
2-Methylphenol	1.039	1.038	-	0.1	20	91	0
Hexachloroethane	0.544	0.538	-	1.1	20	92	0
n-Nitrosodi-n-propylamine	0.912	0.887	-	2.7	20	92	0
3-Methylphenol/4-Methylphe	1.095	1.169	-	-6.8	20	99	0
Nitrobenzene-d5	1.354	1.346	-	0.6	20	94	0
Nitrobenzene	1.298	1.336	-	-2.9	20	96	0
Isophorone	2.275	2.36	-	-3.7	20	93	0
2-Nitrophenol	0.644	0.659	-	-2.3	20	96	0
2,4-Dimethylphenol	1.097	1.138	-	-3.7	20	96	0
Bis(2-chloroethoxy)methane	1.398	1.392	-	0.4	20	92	0
2,4-Dichlorophenol	1.237	1.272	-	-2.8	20	92	0
1,2,4-Trichlorobenzene	1.544	1.538	-	0.4	20	93	0
IS1_Naphthalene-d8	1	1	-	0	20	87	0
Naphthalene	1.042	1.026	-	1.5	20	95	0
Benzoic Acid	5	4.162	-	16.8	20	82	0
4-Chloroaniline	0.127	0.127	-	0	20	92	0
Hexachlorobutadiene	0.25	0.242	-	3.2	20	92	0
p-Chloro-m-cresol	0.291	0.298	-	-2.4	20	94	0
2-Methylnaphthalene	0.749	0.74	-	1.2	20	93	0
1-Methylnaphthalene	0.245	0.243	-	0.8	20	95	0
Hexachlorocyclopentadiene	0.29	0.303	-	-4.5	20	99	0
2,4,6-Trichlorophenol	0.296	0.319	-	-7.8	20	102	0
2,4,5-Trichlorophenol	0.316	0.347	-	-9.8	20	100	0
2-Fluorobiphenyl	1.003	1.019	-	-1.6	20	95	0
2-Chloronaphthalene	0.83	0.85	-	-2.4	20	95	0
2-Nitroaniline	0.221	0.224	-	-1.4	20	94	0
1,4-Dinitrobenzene	0.117	0.115	-	1.7	20	91	0
1,3-Dinitrobenzene	0.127	0.138	-	-8.7	20	94	0
Dimethyl phthalate	1.032	1.052	-	-1.9	20	97	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Instrument ID	: DAKOTA	**Calibration Date**	: 06/24/24 14:00
Lab File ID	: ABN0624	**Init. Calib. Date(s)**	: 06/18/24 06/19/24
Sample No	: WG1938645-3	**Init. Calib. Times**	: 12:22 00:04
Channel	:		

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
Acenaphthylene	1.24	1.282	-	-3.4	20	94	0
2,6-Dinitrotoluene	0.204	0.209	-	-2.5	20	94	0
1,2-Dinitrobenzene	0.074	0.082	-	-10.8	20	92	0
IS1_Acenaphthene-d10	1	1	-	0	20	96	0
3-Nitroaniline	0.297	0.289	-	2.7	20	99	0
Acenaphthene	1.081	1.006	-	6.9	20	97	0
2,4-Dinitrophenol	5	4.569	-	8.6	20	98	0
Dibenzofuran	1.903	1.74	-	8.6	20	96	0
2,4-Dinitrotoluene	0.404	0.406	-	-0.5	20	98	0
4-Nitrophenol	0.249	0.238	-	4.4	20	97	0
2,3,5,6-Tetrachlorophenol	0.428	0.415	-	3	20	101	0
2,3,4,6-Tetrachlorophenol	0.401	0.396	-	1.2	20	97	0
Diethyl phthalate	1.543	1.387	-	10.1	20	94	0
Fluorene	1.448	1.357	-	6.3	20	98	0
4-Chlorophenyl phenyl ethe	0.738	0.696	-	5.7	20	98	0
4-Nitroaniline	0.292	0.295	-	-1	20	99	0
4,6-Dinitro-o-cresol	0.255	0.265	-	-3.9	20	99	0
NDPA/DPA	1.243	1.174	-	5.6	20	99	0
Azobenzene	1.252	1.17	-	6.5	20	97	0
2,4,6-Tribromophenol	0.261	0.255	-	2.3	20	96	0
4-Bromophenyl phenyl ether	0.491	0.447	-	9	20	99	0
Hexachlorobenzene	0.609	0.554	-	9	20	98	0
Pentachlorophenol	0.369	0.353	-	4.3	20	98	0
IS1_Phenanthrene-d10	1	1	-	0	20	95	0
Phenanthrene	1.081	1.017	-	5.9	20	98	0
Anthracene	1.043	1.021	-	2.1	20	100	0
Carbazole	0.988	0.963	-	2.5	20	98	0
Di-n-butylphthalate	1.134	1.08	-	4.8	20	94	0
Fluoranthene	1.317	1.267	-	3.8	20	99	0
Benzidine	0.734	0.763	-	-4	20	100	0
Pyrene	1.356	1.342	-	1	20	99	0
4-Terphenyl-d14	1.04	0.972	-	6.5	20	96	0
Butyl benzyl phthalate	0.51	0.489	-	4.1	20	92	0
IS1_Chrysene-d12	1	1	-	0	20	94	0
Benzo(a)anthracene	1.334	1.307	-	2	20	100	0
3,3'-Dichlorobenzidine	0.495	0.502	-	-1.4	20	97	0
Chrysene	1.266	1.238	-	2.2	20	100	0
Bis(2-ethylhexyl)phthalate	0.75	0.725	-	3.3	20	90	0
Di-n-octylphthalate	1.251	1.212	-	3.1	20	91	0
Benzo(b)fluoranthene	1.424	1.371	-	3.7	20	97	0
Benzo(k)fluoranthene	1.355	1.352	-	0.2	20	102	0
Benzo(a)pyrene	1.262	1.237	-	2	20	96	0
IS1_Perylene-d12	1	1	-	0	20	93	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Alpha Geoscience		**Lab Number**	: L2434679	
Project Name	: RANCO MINE		**Project Number**	: 12123	
Instrument ID	: DAKOTA		**Calibration Date**	: 06/24/24 14:00	
Lab File ID	: ABN0624		**Init. Calib. Date(s)**	: 06/18/24	06/19/24
Sample No	: WG1938645-3		**Init. Calib. Times**	: 12:22	00:04
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
Indeno(1,2,3-cd)pyrene	1.235	1.16	-	6.1	20	94	0
Dibenzo(a,h)anthracene	1.149	1.133	-	1.4	20	97	0
Benzo(ghi)perylene	1.129	1.076	-	4.7	20	96	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Alpha Geoscience	**Lab Number**	: L2434679		
Project Name	: RANCO MINE	**Project Number**	: 12123		
Instrument ID	: DAKOTA	**Calibration Date**	: 06/24/24 14:22		
Lab File ID	: AP90624	**Init. Calib. Date(s)**	: 06/18/24	06/19/24	
Sample No	: WG1938645-4	**Init. Calib. Times**	: 12:22	00:04	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
IS2_1,4-Dichlorobenzene-d4	1	1	-	0	20	87	0
Benzaldehyde	1.036	0.995	-	4	20	86	0
Acetophenone	1.772	1.706	-	3.7	20	87	0
m-Toluidine	1.704	1.706	-	-0.1	20	87	0
2-Chloroaniline	1.648	1.606	-	2.5	20	88	0
IS2_Naphthalene-d8	1	1	-	0	20	91	0
a-Terpineol	0.269	0.244	-	9.3	20	85	0
3-Chloroaniline	0.15	0.139	-	7.3	20	87	0
2,6-Dichlorophenol	0.375	0.366	-	2.4	20	89	0
1-chloro-2-nitrobenzene	0.155	0.143	-	7.7	20	89	0
Caprolactam	0.134	0.138	-	-3	20	93	0
1,2,4,5-Tetrachlorobenzene	0.499	0.469	-	6	20	89	0
Biphenyl	1.069	1.014	-	5.1	20	89	0
IS2_Acenaphthene-d10	1	1	-	0	20	94	0
Dichloran	0.236	0.213	-	9.7	20	90	0
Pentachloronitrobenzene	0.22	0.215	-	2.3	20	89	0
IS2_Phenanthrene-d10	1	1	-	0	20	96	0
Diphenamid	0.521	0.508	-	2.5	20	92	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Alpha Geoscience		**Lab Number**	: L2434679	
Project Name	: RANCO MINE		**Project Number**	: 12123	
Instrument ID	: DAKOTA		**Calibration Date**	: 06/24/24 14:45	
Lab File ID	: ADP0624		**Init. Calib. Date(s)**	: 06/18/24	06/19/24
Sample No	: WG1938645-5		**Init. Calib. Times**	: 12:22	00:04
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
IS3_1,4-Dichlorobenzene-d4	1	1	-	0	20	93	0
1,4-Dioxane	0.45	0.4	-	11.1	20	92	0
n-Decane	1.059	0.886	-	16.3	20	91	0
IS3_Acenaphthene-d10	1	1	-	0	20	94	0
Atrazine	0.45	0.419	-	6.9	20	102	0
IS3_Phenanthrene-d10	1	1	-	0	20	97	0
n-Octadecane	0.319	0.275	-	13.8	20	95	0
Parathion	5	4.34	-	13.2	20	100	0
3,3'-Dimethylbenzidine	0.735	0.716	-	2.6	20	102	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Alpha Geoscience	**Lab Number**	: L2434679		
Project Name	: RANCO MINE	**Project Number**	: 12123		
Instrument ID	: DAKOTA	**Calibration Date**	: 06/25/24 07:19		
Lab File ID	: ABN0625	**Init. Calib. Date(s)**	: 06/18/24	06/19/24	
Sample No	: WG1938967-3	**Init. Calib. Times**	: 12:22	00:04	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
IS1_1,4-Dichlorobenzene-d4	1	1	-	0	20	92	0
n-Nitrosodimethylamine	0.695	0.683	-	1.7	20	96	0
Pyridine	1.127	1.133	-	-0.5	20	101	0
2-Fluorophenol	1.028	0.997	-	3	20	92	0
Aniline	1.706	1.655	-	3	20	95	0
2-Chlorophenol	1.15	1.141	-	0.8	20	92	0
Phenol-d6	1.297	1.261	-	2.8	20	96	0
Phenol	1.512	1.494	-	1.2	20	95	0
Bis(2-chloroethyl)ether	0.991	0.964	-	2.7	20	94	0
1,3-Dichlorobenzene	1.48	1.479	-	0.1	20	95	0
1,4-Dichlorobenzene	1.533	1.501	-	2.1	20	96	0
1,2-Dichlorobenzene	1.454	1.437	-	1.2	20	96	0
Benzyl alcohol	0.973	0.991	-	-1.8	20	94	0
Bis(2-chloroisopropyl)ethe	1.478	1.387	-	6.2	20	92	0
2-Methylphenol	1.039	1.035	-	0.4	20	94	0
Hexachloroethane	0.544	0.53	-	2.6	20	94	0
n-Nitrosodi-n-propylamine	0.912	0.896	-	1.8	20	96	0
3-Methylphenol/4-Methylphe	1.095	1.089	-	0.5	20	96	0
Nitrobenzene-d5	1.354	1.316	-	2.8	20	96	0
Nitrobenzene	1.298	1.305	-	-0.5	20	98	0
Isophorone	2.275	2.316	-	-1.8	20	94	0
2-Nitrophenol	0.644	0.629	-	2.3	20	96	0
2,4-Dimethylphenol	1.097	1.094	-	0.3	20	96	0
Bis(2-chloroethoxy)methane	1.398	1.308	-	6.4	20	90	0
2,4-Dichlorophenol	1.237	1.252	-	-1.2	20	94	0
1,2,4-Trichlorobenzene	1.544	1.491	-	3.4	20	94	0
IS1_Naphthalene-d8	1	1	-	0	20	89	0
Naphthalene	1.042	0.989	-	5.1	20	94	0
Benzoic Acid	5	4.316	-	13.7	20	88	0
4-Chloroaniline	0.127	0.124	-	2.4	20	92	0
Hexachlorobutadiene	0.25	0.236	-	5.6	20	92	0
p-Chloro-m-cresol	0.291	0.288	-	1	20	93	0
2-Methylnaphthalene	0.749	0.709	-	5.3	20	92	0
1-Methylnaphthalene	0.245	0.237	-	3.3	20	96	0
Hexachlorocyclopentadiene	0.29	0.288	-	0.7	20	97	0
2,4,6-Trichlorophenol	0.296	0.309	-	-4.4	20	102	0
2,4,5-Trichlorophenol	0.316	0.331	-	-4.7	20	98	0
2-Fluorobiphenyl	1.003	0.961	-	4.2	20	93	0
2-Chloronaphthalene	0.83	0.8	-	3.6	20	93	0
2-Nitroaniline	0.221	0.226	-	-2.3	20	98	0
1,4-Dinitrobenzene	0.117	0.119	-	-1.7	20	97	0
1,3-Dinitrobenzene	0.127	0.142	-	-11.8	20	100	0
Dimethyl phthalate	1.032	1.024	-	0.8	20	97	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Alpha Geoscience	**Lab Number**	: L2434679		
Project Name	: RANCO MINE	**Project Number**	: 12123		
Instrument ID	: DAKOTA	**Calibration Date**	: 06/25/24 07:19		
Lab File ID	: ABN0625	**Init. Calib. Date(s)**	: 06/18/24	06/19/24	
Sample No	: WG1938967-3	**Init. Calib. Times**	: 12:22	00:04	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
Acenaphthylene	1.24	1.235	-	0.4	20	94	0
2,6-Dinitrotoluene	0.204	0.213	-	-4.4	20	99	0
1,2-Dinitrobenzene	0.074	0.08	-	-8.1	20	92	0
IS1_Acenaphthene-d10	1	1	-	0	20	93	0
3-Nitroaniline	0.297	0.303	-	-2	20	101	0
Acenaphthene	1.081	1.026	-	5.1	20	96	0
2,4-Dinitrophenol	5	4.701	-	6	20	97	0
Dibenzofuran	1.903	1.788	-	6	20	96	0
2,4-Dinitrotoluene	0.404	0.424	-	-5	20	99	0
4-Nitrophenol	0.249	0.254	-	-2	20	100	0
2,3,5,6-Tetrachlorophenol	0.428	0.417	-	2.6	20	98	0
2,3,4,6-Tetrachlorophenol	0.401	0.417	-	-4	20	99	0
Diethyl phthalate	1.543	1.43	-	7.3	20	94	0
Fluorene	1.448	1.374	-	5.1	20	96	0
4-Chlorophenyl phenyl ethe	0.738	0.716	-	3	20	97	0
4-Nitroaniline	0.292	0.314	-	-7.5	20	103	0
4,6-Dinitro-o-cresol	0.255	0.272	-	-6.7	20	98	0
NDPA/DPA	1.243	1.177	-	5.3	20	96	0
Azobenzene	1.252	1.212	-	3.2	20	97	0
2,4,6-Tribromophenol	0.261	0.268	-	-2.7	20	98	0
4-Bromophenyl phenyl ether	0.491	0.456	-	7.1	20	97	0
Hexachlorobenzene	0.609	0.565	-	7.2	20	97	0
Pentachlorophenol	0.369	0.365	-	1.1	20	98	0
IS1_Phenanthrene-d10	1	1	-	0	20	95	0
Phenanthrene	1.081	1.01	-	6.6	20	97	0
Anthracene	1.043	1.024	-	1.8	20	100	0
Carbazole	0.988	0.985	-	0.3	20	101	0
Di-n-butylphthalate	1.134	1.066	-	6	20	93	0
Fluoranthene	1.317	1.283	-	2.6	20	101	0
Benzidine	0.734	0.812	-	-10.6	20	106	0
Pyrene	1.356	1.37	-	-1	20	102	0
4-Terphenyl-d14	1.04	1.001	-	3.8	20	100	0
Butyl benzyl phthalate	0.51	0.509	-	0.2	20	96	0
IS1_Chrysene-d12	1	1	-	0	20	98	0
Benzo(a)anthracene	1.334	1.291	-	3.2	20	103	0
3,3'-Dichlorobenzidine	0.495	0.499	-	-0.8	20	101	0
Chrysene	1.266	1.235	-	2.4	20	104	0
Bis(2-ethylhexyl)phthalate	0.75	0.736	-	1.9	20	96	0
Di-n-octylphthalate	1.251	1.234	-	1.4	20	96	0
Benzo(b)fluoranthene	1.424	1.395	-	2	20	103	0
Benzo(k)fluoranthene	1.355	1.34	-	1.1	20	105	0
Benzo(a)pyrene	1.262	1.264	-	-0.2	20	103	0
IS1_Perylene-d12	1	1	-	0	20	99	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Alpha Geoscience		**Lab Number**	: L2434679	
Project Name	: RANCO MINE		**Project Number**	: 12123	
Instrument ID	: DAKOTA		**Calibration Date**	: 06/25/24 07:19	
Lab File ID	: ABN0625		**Init. Calib. Date(s)**	: 06/18/24	06/19/24
Sample No	: WG1938967-3		**Init. Calib. Times**	: 12:22	00:04
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
Indeno(1,2,3-cd)pyrene	1.235	1.137	-	7.9	20	99	0
Dibenzo(a,h)anthracene	1.149	1.106	-	3.7	20	101	0
Benzo(ghi)perylene	1.129	1.062	-	5.9	20	101	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Alpha Geoscience	**Lab Number**	: L2434679		
Project Name	: RANCO MINE	**Project Number**	: 12123		
Instrument ID	: DAKOTA	**Calibration Date**	: 06/25/24 07:42		
Lab File ID	: AP90625	**Init. Calib. Date(s)**	: 06/18/24	06/19/24	
Sample No	: WG1938967-4	**Init. Calib. Times**	: 12:22	00:04	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
IS2_1,4-Dichlorobenzene-d4	1	1	-	0	20	89	0
Benzaldehyde	1.036	1.036	-	0	20	92	0
Acetophenone	1.772	1.792	-	-1.1	20	93	0
m-Toluidine	1.704	1.779	-	-4.4	20	92	0
2-Chloroaniline	1.648	1.663	-	-0.9	20	93	0
IS2_Naphthalene-d8	1	1	-	0	20	92	0
a-Terpineol	0.269	0.254	-	5.6	20	90	0
3-Chloroaniline	0.15	0.144	-	4	20	91	0
2,6-Dichlorophenol	0.375	0.373	-	0.5	20	92	0
1-chloro-2-nitrobenzene	0.155	0.145	-	6.5	20	91	0
Caprolactam	0.134	0.144	-	-7.5	20	98	0
1,2,4,5-Tetrachlorobenzene	0.499	0.476	-	4.6	20	91	0
Biphenyl	1.069	1.033	-	3.4	20	92	0
IS2_Acenaphthene-d10	1	1	-	0	20	94	0
Dichloran	0.236	0.22	-	6.8	20	94	0
Pentachloronitrobenzene	0.22	0.219	-	0.5	20	91	0
IS2_Phenanthrene-d10	1	1	-	0	20	95	0
Diphenamid	0.521	0.529	-	-1.5	20	95	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Alpha Geoscience		**Lab Number**	: L2434679	
Project Name	: RANCO MINE		**Project Number**	: 12123	
Instrument ID	: DAKOTA		**Calibration Date**	: 06/25/24 08:05	
Lab File ID	: ADP0625		**Init. Calib. Date(s)**	: 06/18/24	06/19/24
Sample No	: WG1938967-5		**Init. Calib. Times**	: 12:22	00:04
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
IS3_1,4-Dichlorobenzene-d4	1	1	-	0	20	104	0
1,4-Dioxane	0.45	0.426	-	5.3	20	110	0
n-Decane	1.059	0.904	-	14.6	20	103	0
IS3_Acenaphthene-d10	1	1	-	0	20	103	0
Atrazine	0.45	0.412	-	8.4	20	110	0
IS3_Phenanthrene-d10	1	1	-	0	20	100	0
n-Octadecane	0.319	0.265	-	16.9	20	94	0
Parathion	5	4.332	-	13.4	20	102	0
3,3'-Dimethylbenzidine	0.735	0.76	-	-3.4	20	112	0

*** Value outside of QC limits.**

Evaluate Continuing Calibration Report

Data Path : I:\8270\Dakota\240625RVT\
Data File : ABN0625.D
Acq On : 25 Jun 2024 7:19 am
Operator : Dakota:ljg
Sample : WG1938967-3,32,,ABN 10777 HNY0619A
Misc : WG1938967,,ical21225
ALS Vial : 96 Sample Multiplier: 1

Quant Time: Jun 25 08:16:52 2024
Quant Method : I:\8270\dakota\240625RVT\FS240618RVT_14D_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Jun 25 08:17:23 2024
Response via : Initial Calibration

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

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	IS1_1,4-Dichlorobenzene-d4		1.000	1.000	0.0	92	0.00
2	t	n-Nitrosodimethylamine		0.695	0.683	1.7	96	0.00
3	t	Pyridine		1.127	1.133	-0.5	101	0.00
4	S	2-Fluorophenol		1.028	0.997	3.0	92	0.00
5	T	Aniline		1.706	1.655	3.0	95	0.00
6	t	2-Chlorophenol		1.150	1.141	0.8	92	0.00
7	S	Phenol-d6		1.297	1.261	2.8	96	0.00
8	T	Phenol		1.512	1.494	1.2	95	0.00
9	T	Bis(2-chloroethyl)ether		0.991	0.964	2.7	94	0.00
10	T	1,3-Dichlorobenzene		1.480	1.479	0.1	95	0.00
11	T	1,4-Dichlorobenzene		1.533	1.501	2.1	96	0.00
12	T	1,2-Dichlorobenzene		1.454	1.437	1.2	96	0.00
13	t	Benzyl alcohol		0.973	0.991	-1.8	94	0.00
14	T	Bis(2-chloroisopropyl)ether		1.478	1.387	6.2	92	0.00
15	T	2-Methylphenol		1.039	1.035	0.4	94	0.00
16	T	Hexachloroethane		0.544	0.530	2.6	94	0.00
17	T	n-Nitrosodi-n-propylamine		0.912	0.896	1.8	96	0.00
18	T	3-Methylphenol/4-Methylphen		1.095	1.089	0.5	96	0.00
19	S	Nitrobenzene-d5		1.354	1.316	2.8	96	0.00
20	T	Nitrobenzene		1.298	1.305	-0.5	98	0.00
21	T	Isophorone		2.275	2.316	-1.8	94	0.00
22	T	2-Nitrophenol		0.644	0.629	2.3	96	0.00
23	T	2,4-Dimethylphenol		1.097	1.094	0.3	96	0.00
24	T	Bis(2-chloroethoxy)methane		1.398	1.308	6.4	90	0.00
25	T	2,4-Dichlorophenol		1.237	1.252	-1.2	94	0.00
26	T	1,2,4-Trichlorobenzene		1.544	1.491	3.4	94	0.00
35	I	IS1_Naphthalene-d8		1.000	1.000	0.0	89	0.00
36	T	Naphthalene		1.042	0.989	5.1	94	0.00
37	T	Benzoic Acid	*	5.000	4.316	13.7	88	0.00
38	T	4-Chloroaniline		0.127	0.124	2.4	92	0.00
39	T	Hexachlorobutadiene		0.250	0.236	5.6	92	0.00
40	T	p-Chloro-m-cresol		0.291	0.288	1.0	93	0.00
41	T	2-Methylnaphthalene		0.749	0.709	5.3	92	0.00
42	T	1-Methylnaphthalene		0.245	0.237	3.3	96	0.00
43	T	Hexachlorocyclopentadiene		0.290	0.288	0.7	97	0.00
44	T	2,4,6-Trichlorophenol		0.296	0.309	-4.4	102	0.00
45	T	2,4,5-Trichlorophenol		0.316	0.331	-4.7	98	0.00
46	S	2-Fluorobiphenyl		1.003	0.961	4.2	93	0.00

Evaluate Continuing Calibration Report

Data Path : I:\8270\Dakota\240625RVT\
Data File : ABN0625.D
Acq On : 25 Jun 2024 7:19 am
Operator : Dakota:ljg
Sample : WG1938967-3,32,,ABN 10777 HNY0619A
Misc : WG1938967,,ical21225
ALS Vial : 96 Sample Multiplier: 1

Quant Time: Jun 25 08:16:52 2024
Quant Method : I:\8270\dakota\240625RVT\FS240618RVT_14D_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Jun 25 08:17:23 2024
Response via : Initial Calibration

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

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(min)
47	T	2-Chloronaphthalene		0.830	0.800	3.6	93	0.00
48	T	2-Nitroaniline		0.221	0.226	-2.3	98	0.00
49	T	1,4-Dinitrobenzene		0.117	0.119	-1.7	97	0.00
50	T	1,3-Dinitrobenzene		0.127	0.142	-11.8	100	0.00
51	T	Dimethyl phthalate		1.032	1.024	0.8	97	0.00
52	T	Acenaphthylene		1.240	1.235	0.4	94	0.00
53	T	2,6-Dinitrotoluene		0.204	0.213	-4.4	99	0.00
54	T	1,2-Dinitrobenzene		0.074	0.080	-8.1	92	0.00
63	I	IS1_Acenaphthene-d10		1.000	1.000	0.0	93	0.00
64	T	3-Nitroaniline		0.297	0.303	-2.0	101	0.00
65	T	Acenaphthene		1.081	1.026	5.1	96	0.00
66	T	2,4-Dinitrophenol	*	5.000	4.701	6.0	97	0.00
67	T	Dibenzofuran		1.903	1.788	6.0	96	0.00
68	T	2,4-Dinitrotoluene		0.404	0.424	-5.0	99	0.00
69	T	4-Nitrophenol		0.249	0.254	-2.0	100	0.00
70	T	2,3,5,6-Tetrachlorophenol		0.428	0.417	2.6	98	0.00
71	T	2,3,4,6-Tetrachlorophenol		0.401	0.417	-4.0	99	0.00
72	T	Diethyl phthalate		1.543	1.430	7.3	94	0.00
73	T	Fluorene		1.448	1.374	5.1	96	0.00
74	T	4-Chlorophenyl phenyl ether		0.738	0.716	3.0	97	0.00
75	T	4-Nitroaniline		0.292	0.314	-7.5	103	0.00
76	T	4,6-Dinitro-o-cresol		0.255	0.272	-6.7	98	0.00
77	T	NDPA/DPA		1.243	1.177	5.3	96	0.00
78	T	Azobenzene		1.252	1.212	3.2	97	0.00
79	S	2,4,6-Tribromophenol		0.261	0.268	-2.7	98	0.00
80	T	4-Bromophenyl phenyl ether		0.491	0.456	7.1	97	0.00
81	T	Hexachlorobenzene		0.609	0.565	7.2	97	0.00
82	T	Pentachlorophenol		0.369	0.365	1.1	98	0.00
88	I	IS1_Phenanthrene-d10		1.000	1.000	0.0	95	0.00
89	T	Phenanthrene		1.081	1.010	6.6	97	0.00
90	T	Anthracene		1.043	1.024	1.8	100	0.00
91	T	Carbazole		0.988	0.985	0.3	101	0.00
92	T	Di-n-butylphthalate		1.134	1.066	6.0	93	0.00
93	T	Fluoranthene		1.317	1.283	2.6	101	0.00
94	T	Benzidine		0.734	0.812	-10.6	106	0.00
95	T	Pyrene		1.356	1.370	-1.0	102	0.00
96	S	4-Terphenyl-d14		1.040	1.001	3.8	100	0.00

Evaluate Continuing Calibration Report

Data Path : I:\8270\Dakota\240625RVT\
Data File : ABN0625.D
Acq On : 25 Jun 2024 7:19 am
Operator : Dakota:ljg
Sample : WG1938967-3,32,,ABN 10777 HNY0619A
Misc : WG1938967,,ical21225
ALS Vial : 96 Sample Multiplier: 1

Quant Time: Jun 25 08:16:52 2024
Quant Method : I:\8270\dakota\240625RVT\FS240618RVT_14D_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Jun 25 08:17:23 2024
Response via : Initial Calibration

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

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
97	T	Butyl benzyl phthalate	0.510	0.509	0.2	96	0.00
104	I	IS1_Chrysene-d12	1.000	1.000	0.0	98	0.00
105	T	Benzo(a)anthracene	1.334	1.291	3.2	103	0.00
106	T	3,3'-Dichlorobenzidine	0.495	0.499	-0.8	101	0.00
107	T	Chrysene	1.266	1.235	2.4	104	0.00
108	T	Bis(2-ethylhexyl)phthalate	0.750	0.736	1.9	96	0.00
109	T	Di-n-octylphthalate	1.251	1.234	1.4	96	0.00
110	T	Benzo(b)fluoranthene	1.424	1.395	2.0	103	0.00
111	T	Benzo(k)fluoranthene	1.355	1.340	1.1	105	0.00
112	T	Benzo(a)pyrene	1.262	1.264	-0.2	103	0.00
113	I	IS1_Perylene-d12	1.000	1.000	0.0	99	0.00
114	T	Indeno(1,2,3-cd)pyrene	1.235	1.137	7.9	99	0.00
115	T	Dibenzo(a,h)anthracene	1.149	1.106	3.7	101	0.00
116	T	Benzo(ghi)perylene	1.129	1.062	5.9	101	0.00

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\240625RVT\
Data File : ABN0625.D
Acq On : 25 Jun 2024 7:19 am
Operator : Dakota:ljg
Sample : WG1938967-3,32,,ABN 10777 HNY0619A
Misc : WG1938967,,ical21225
ALS Vial : 96 Sample Multiplier: 1

Quant Time: Jun 25 08:16:52 2024
Quant Method : I:\8270\dakota\240625RVT\FS240618RVT_14D_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Jun 25 08:17:23 2024
Response via : Initial Calibration

Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) IS1_1,4-Dichlorobenzen...	4.486	152	26257	4.000	ug/ml		0.00
35) IS1_Naphthalene-d8	5.720	136	95039	4.000	ug/ml	#	0.00
63) IS1_Acenaphthene-d10	7.420	164	67008	4.000	ug/ml		0.00
88) IS1_Phenanthrene-d10	8.841	188	156879	4.000	ug/ml		0.00
104) IS1_Chrysene-d12	11.442	240	168902	4.000	ug/ml		0.00
113) IS1_Perylene-d12	12.887	264	203294	4.000	ug/ml		0.00
System Monitoring Compounds							
4) 2-Fluorophenol	3.212	112	32714	4.849	ug/ml		0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 242.45%#				
7) Phenol-d6	4.175	99	41393	4.861	ug/ml		0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 243.05%#				
19) Nitrobenzene-d5	5.030	82	43179	4.858	ug/ml		0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 485.80%#				
46) 2-Fluorobiphenyl	6.792	172	114178	4.793	ug/ml		0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 479.30%#				
79) 2,4,6-Tribromophenol	8.179	330	22457	5.128	ug/ml		0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 256.40%#				
96) 4-Terphenyl-d14	10.413	244	196309	4.812	ug/ml		0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 481.20%#				
Target Compounds							Qvalue
2) n-Nitrosodimethylamine	1.807	74	22417	4.914	ug/ml	#	79
3) Pyridine	1.835	79	37199	5.030	ug/ml	#	47
5) Aniline	4.169	93	54306	4.849	ug/ml		97
6) 2-Chlorophenol	4.281	128	37455	4.961	ug/ml	#	89
8) Phenol	4.188	94	49029	4.941	ug/ml		90
9) Bis(2-chloroethyl)ether	4.256	93	31645	4.864	ug/ml		95
10) 1,3-Dichlorobenzene	4.430	146	48532M3	4.995	ug/ml		
11) 1,4-Dichlorobenzene	4.505	146	49253	4.896	ug/ml		94
12) 1,2-Dichlorobenzene	4.651	146	47160	4.941	ug/ml		93
13) Benzyl alcohol	4.645	79	32535	5.094	ug/ml		96
14) Bis(2-chloroisopropyl)...	4.788	45	45520	4.692	ug/ml	#	42
15) 2-Methylphenol	4.778	108	33982	4.984	ug/ml		99
16) Hexachloroethane	4.977	117	17401	4.871	ug/ml	#	44
17) n-Nitrosodi-n-propylamine	4.915	70	29423	4.914	ug/ml	#	87
18) 3-Methylphenol/4-Methy...	4.934	108	35742	4.971	ug/ml		95
20) Nitrobenzene	5.049	77	42824	5.026	ug/ml		94
21) Isophorone	5.291	82	76015	5.090	ug/ml	#	93
22) 2-Nitrophenol	5.366	139	20639	4.883	ug/ml		91

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\240625RVT\
Data File : ABN0625.D
Acq On : 25 Jun 2024 7:19 am
Operator : Dakota:ljg
Sample : WG1938967-3,32,,ABN 10777 HNY0619A
Misc : WG1938967,,ical21225
ALS Vial : 96 Sample Multiplier: 1

Quant Time: Jun 25 08:16:52 2024
Quant Method : I:\8270\dakota\240625RVT\FS240618RVT_14D_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Jun 25 08:17:23 2024
Response via : Initial Calibration

Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) 2,4-Dimethylphenol	5.447	107	35904	4.987	ug/ml	94
24) Bis(2-chloroethoxy)met...	5.531	93	42920	4.675	ug/ml	98
25) 2,4-Dichlorophenol	5.602	162	41076	5.057	ug/ml#	91
26) 1,2,4-Trichlorobenzene	5.680	180	48928	4.828	ug/ml#	96
36) Naphthalene	5.742	128	117503	4.747	ug/ml	99
37) Benzoic Acid	5.521	105	23257	4.316	ug/ml	92
38) 4-Chloroaniline	5.816	65	14695	4.872	ug/ml	84
39) Hexachlorobutadiene	5.897	225	27992	4.706	ug/ml	96
40) p-Chloro-m-cresol	6.314	107	34172	4.944	ug/ml	89
41) 2-Methylnaphthalene	6.419	142	84245	4.733	ug/ml	95
42) 1-Methylnaphthalene	6.513	115	28159	4.828	ug/ml	94
43) Hexachlorocyclopentadiene	6.590	237	34265	4.971	ug/ml	99
44) 2,4,6-Trichlorophenol	6.708	196	36660M3	5.212	ug/ml	
45) 2,4,5-Trichlorophenol	6.736	196	39325	5.230	ug/ml	97
47) 2-Chloronaphthalene	6.883	162	95020	4.816	ug/ml#	91
48) 2-Nitroaniline	6.998	138	26796	5.095	ug/ml#	82
49) 1,4-Dinitrobenzene	7.128	168	14090	5.049	ug/ml	90
50) 1,3-Dinitrobenzene	7.203	168	16865	5.603	ug/ml#	1
51) Dimethyl phthalate	7.203	163	121620	4.958	ug/ml#	98
52) Acenaphthylene	7.277	152	146750	4.982	ug/ml	99
53) 2,6-Dinitrotoluene	7.240	165	25273	5.219	ug/ml#	77
54) 1,2-Dinitrobenzene	7.280	168	9474	5.377	ug/ml#	1
64) 3-Nitroaniline	7.392	138	25366	5.101	ug/ml#	89
65) Acenaphthene	7.448	154	85901	4.744	ug/ml	89
66) 2,4-Dinitrophenol	7.495	184	16835	4.701	ug/ml#	84
67) Dibenzofuran	7.619	168	149776	4.698	ug/ml	89
68) 2,4-Dinitrotoluene	7.625	165	35547	5.250	ug/ml	91
69) 4-Nitrophenol	7.588	65	21276	5.108	ug/ml#	85
70) 2,3,5,6-Tetrachlorophenol	7.712	232	34959	4.881	ug/ml	99
71) 2,3,4,6-Tetrachlorophenol	7.753	232	34936	5.204	ug/ml	96
72) Diethyl phthalate	7.890	149	119810	4.636	ug/ml	98
73) Fluorene	7.949	166	115113	4.745	ug/ml	91
74) 4-Chlorophenyl phenyl ...	7.970	204	59933	4.850	ug/ml#	83
75) 4-Nitroaniline	7.977	138	26314	5.373	ug/ml#	81
76) 4,6-Dinitro-o-cresol	8.014	198	22815	5.341	ug/ml#	57
77) NDPA/DPA	8.085	169	98568	4.733	ug/ml	92
78) Azobenzene	8.120	77	101482	4.837	ug/ml	96
80) 4-Bromophenyl phenyl e...	8.437	248	38157	4.642	ug/ml#	81
81) Hexachlorobenzene	8.483	284	47310	4.634	ug/ml#	80
82) Pentachlorophenol	8.679	266	30596	4.952	ug/ml	98
89) Phenanthrene	8.862	178	198034	4.669	ug/ml	100

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\240625RVT\
Data File : ABN0625.D
Acq On : 25 Jun 2024 7:19 am
Operator : Dakota:ljg
Sample : WG1938967-3,32,,ABN 10777 HNY0619A
Misc : WG1938967,,ical21225
ALS Vial : 96 Sample Multiplier: 1

Quant Time: Jun 25 08:16:52 2024
Quant Method : I:\8270\dakota\240625RVT\FS240618RVT_14D_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Jun 25 08:17:23 2024
Response via : Initial Calibration

Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
90) Anthracene	8.912	178	200871	4.911	ug/ml	99
91) Carbazole	9.083	167	193170	4.985	ug/ml	100
92) Di-n-butylphthalate	9.481	149	208970	4.697	ug/ml	99
93) Fluoranthene	10.009	202	251625	4.872	ug/ml#	90
94) Benzidine	10.165	184	159151	5.532	ug/ml#	93
95) Pyrene	10.221	202	268694	5.054	ug/ml	99
97) Butyl benzyl phthalate	10.935	149	99870	4.996	ug/ml	84
105) Benzo(a)anthracene	11.433	228	272627	4.840	ug/ml	98
106) 3,3'-Dichlorobenzidine	11.439	252	105390	5.042	ug/ml#	96
107) Chrysene	11.470	228	260774	4.876	ug/ml	98
108) Bis(2-ethylhexyl)phtha...	11.570	149	155291	4.902	ug/ml#	89
109) Di-n-octylphthalate	12.238	149	260433	4.930	ug/ml#	71
110) Benzo(b)fluoranthene	12.524	252	294623M3	4.899	ug/ml	
111) Benzo(k)fluoranthene	12.549	252	282840	4.944	ug/ml#	92
112) Benzo(a)pyrene	12.831	252	266963	5.011	ug/ml#	91
114) Indeno(1,2,3-cd)pyrene	13.829	276	289023	4.606	ug/mL#	86
115) Dibenzo(a,h)anthracene	13.854	278	280944	4.810	ug/ml#	87
116) Benzo(ghi)perylene	14.044	276	269976	4.705	ug/ml#	83

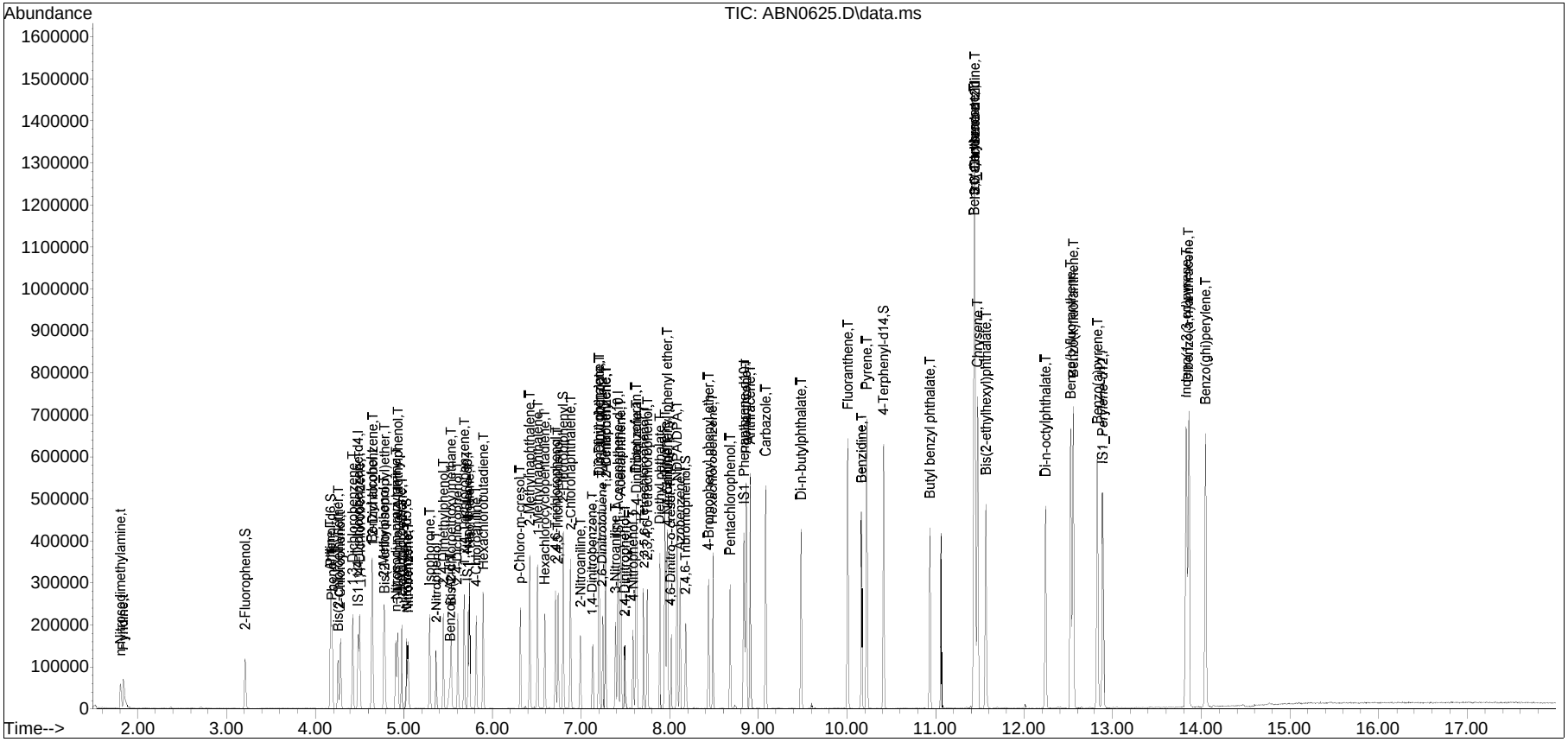
(#) = qualifier out of range (m) = manual integration (+) = signals summed

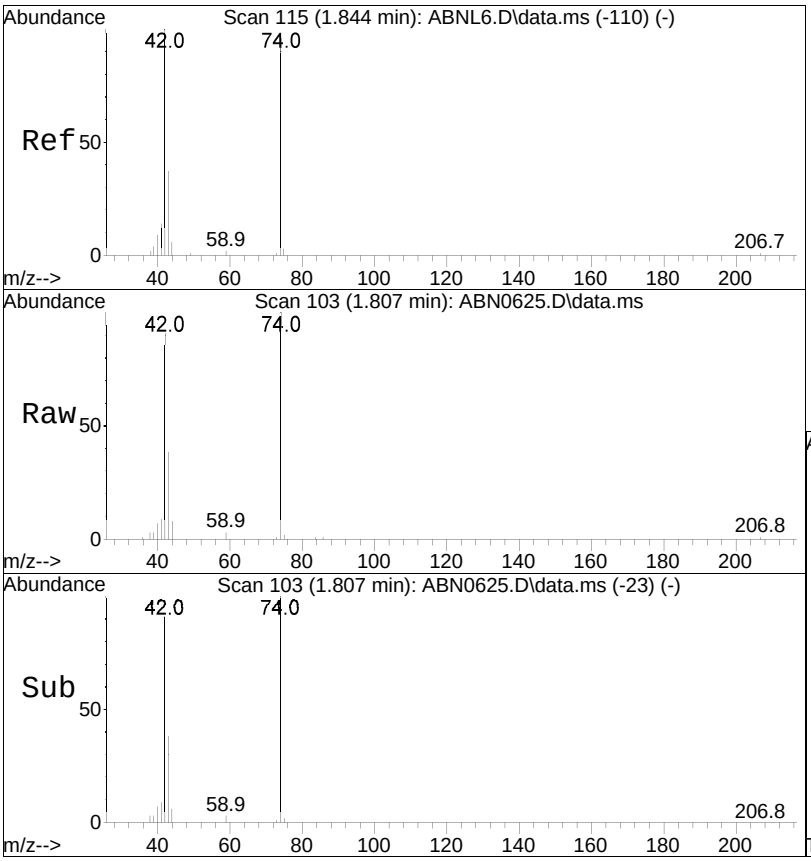
Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\240625RVT\
Data File : ABN0625.D
Acq On : 25 Jun 2024 7:19 am
Operator : Dakota:ljg
Sample : WG1938967-3,32,,ABN 10777 HNY0619A
Misc : WG1938967,,ical21225
ALS Vial : 96 Sample Multiplier: 1

Quant Time: Jun 25 08:16:52 2024
Quant Method : I:\8270\dakota\240625RVT\FS240618RVT_14D_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Jun 25 08:17:23 2024
Response via : Initial Calibration

Sub List : ABNical - ABN ical sublist

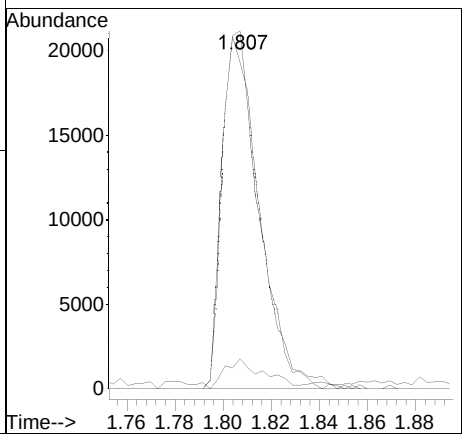


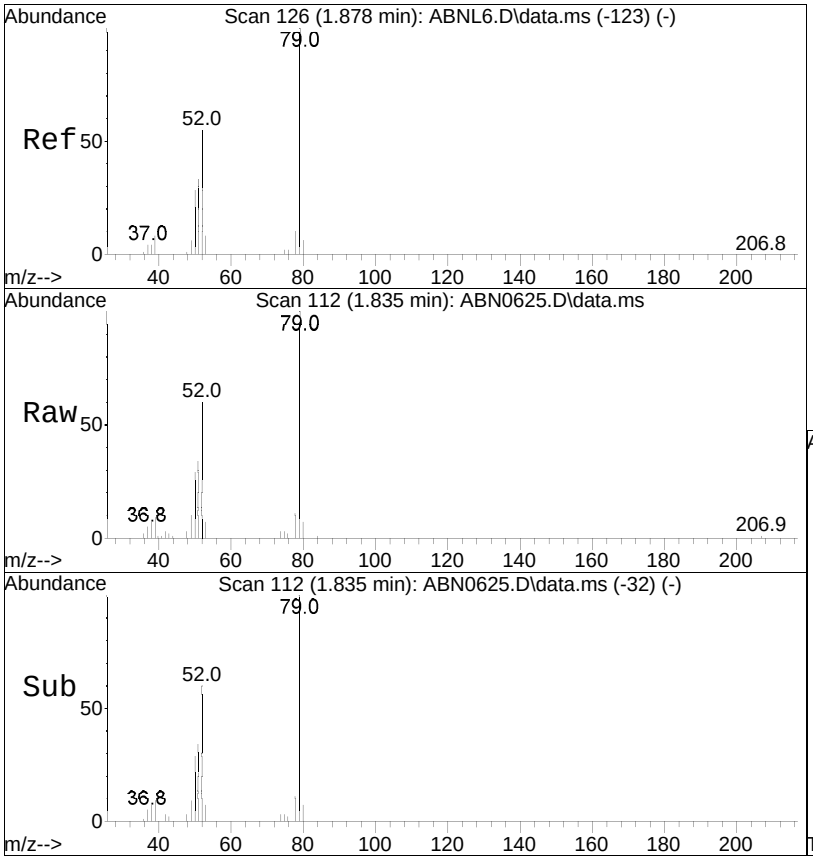


#2
n-Nitrosodimethylamine
Concen: 4.91 ug/ml
RT: 1.807 min Scan# 103
Delta R.T. 0.000 min
Lab File: ABN0625.D
Acq: 25 Jun 2024 7:19 am

Tgt Ion: 74 Resp: 22417

Ion	Ratio	Lower	Upper
74	100		
42	99.2	100.0	150.0#
44	8.8	6.7	10.1

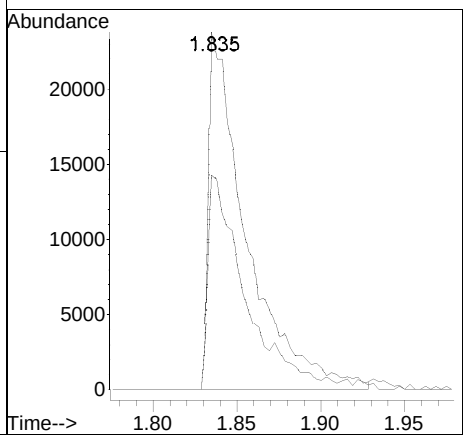


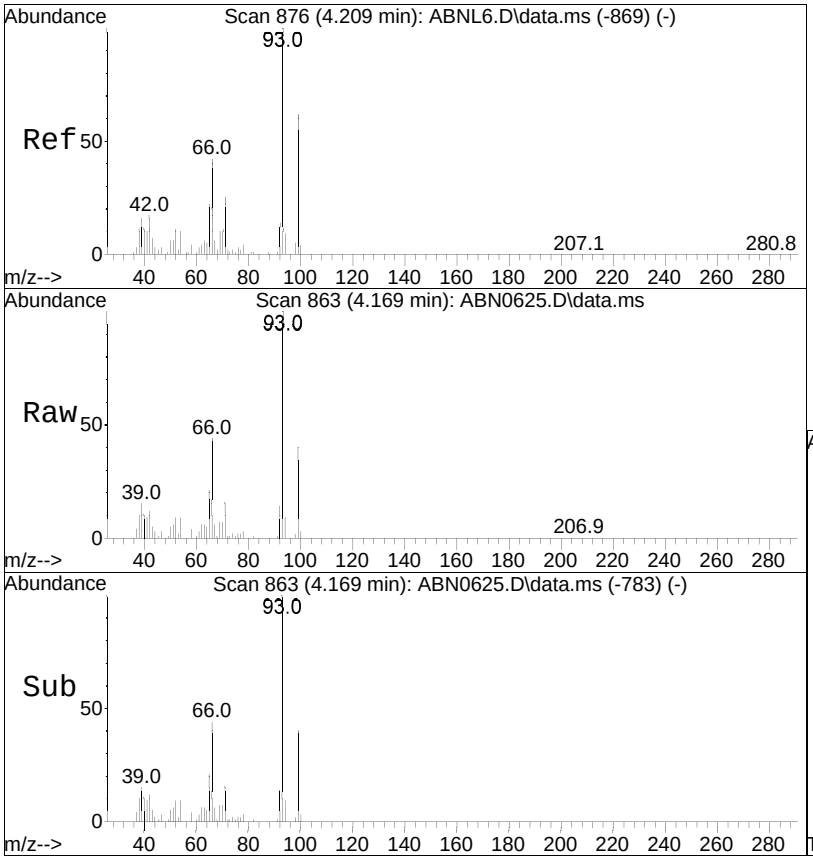


#3
Pyridine
Concen: 5.03 ug/ml
RT: 1.835 min Scan# 112
Delta R.T. 0.000 min
Lab File: ABN0625.D
Acq: 25 Jun 2024 7:19 am

Tgt Ion: 79 Resp: 37199

Ion	Ratio	Lower	Upper
79	100		
52	58.3	93.1	139.7#

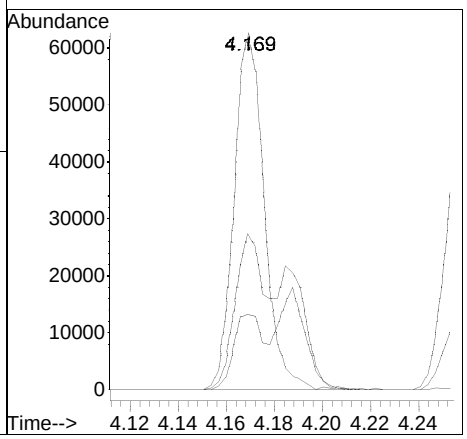


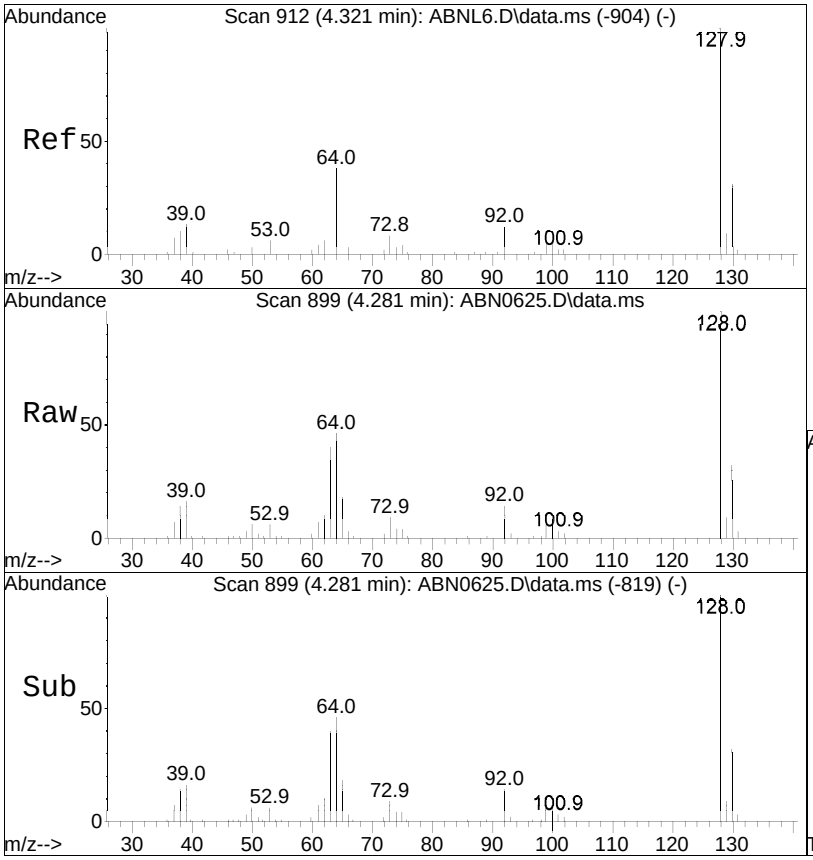


#5
Aniline
Concen: 4.85 ug/ml
RT: 4.169 min Scan# 863
Delta R.T. 0.000 min
Lab File: ABN0625.D
Acq: 25 Jun 2024 7:19 am

Tgt Ion: 93 Resp: 54306

Ion	Ratio	Lower	Upper
93	100		
66	43.4	32.6	49.0
65	22.3	17.6	26.4

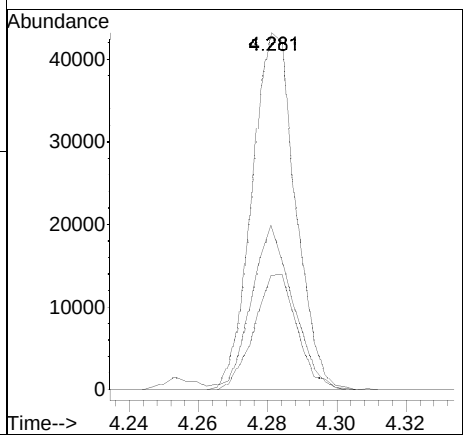


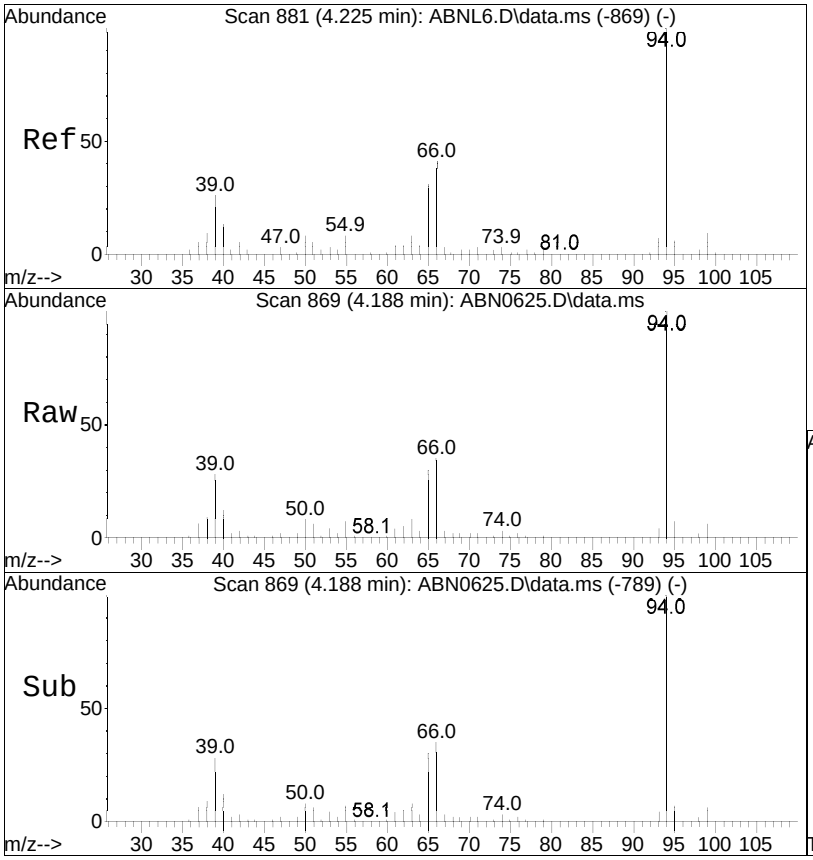


#6
2-Chlorophenol
Concen: 4.96 ug/ml
RT: 4.281 min Scan# 899
Delta R.T. 0.000 min
Lab File: ABN0625.D
Acq: 25 Jun 2024 7:19 am

Tgt Ion:128 Resp: 37455

Ion	Ratio	Lower	Upper
128	100		
64	44.1	45.1	67.7#
130	32.0	26.2	39.4

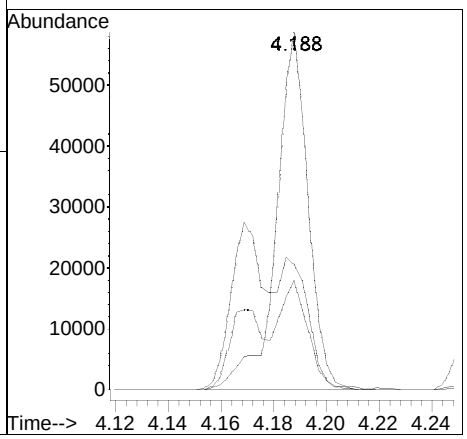


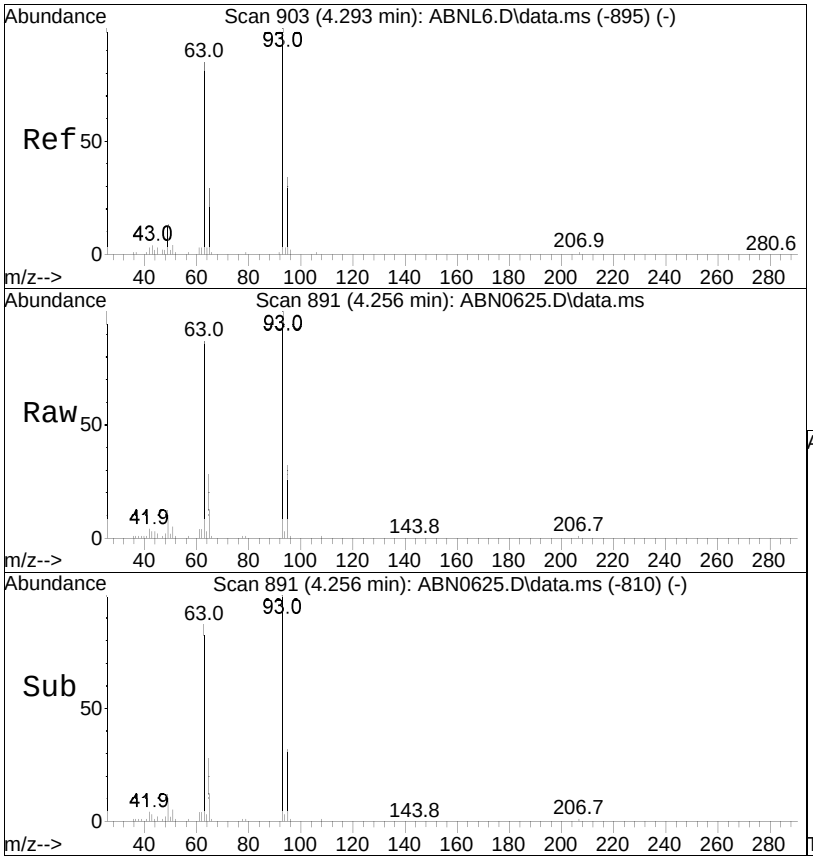


#8
Phenol
Concen: 4.94 ug/ml
RT: 4.188 min Scan# 869
Delta R.T. 0.000 min
Lab File: ABN0625.D
Acq: 25 Jun 2024 7:19 am

Tgt Ion: 94 Resp: 49029

Ion	Ratio	Lower	Upper
94	100		
65	27.2	26.0	39.0
66	35.7	33.8	50.8

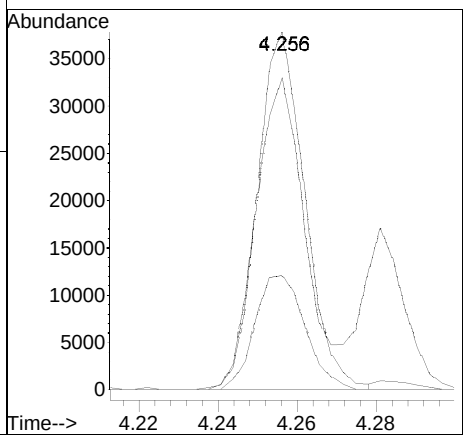


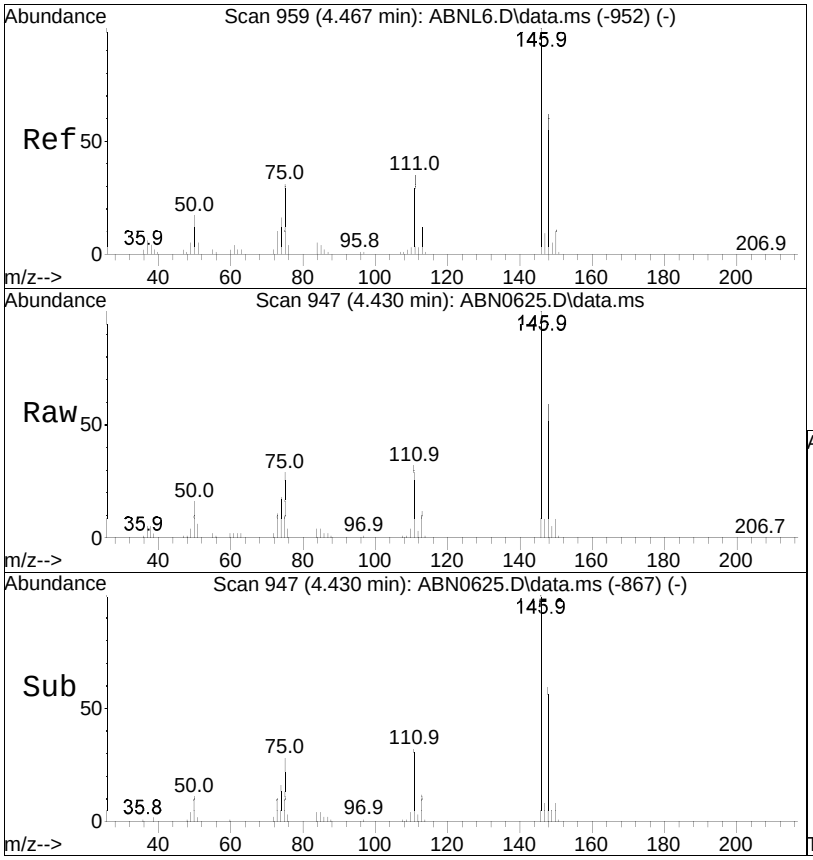


#9
Bis(2-chloroethyl)ether
Concen: 4.86 ug/ml
RT: 4.256 min Scan# 891
Delta R.T. 0.000 min
Lab File: ABN0625.D
Acq: 25 Jun 2024 7:19 am

Tgt Ion: 93 Resp: 31645

Ion	Ratio	Lower	Upper
93	100		
63	87.1	74.6	111.8
95	33.7	25.9	38.9

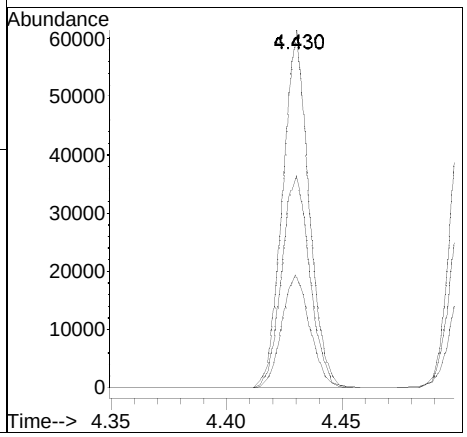


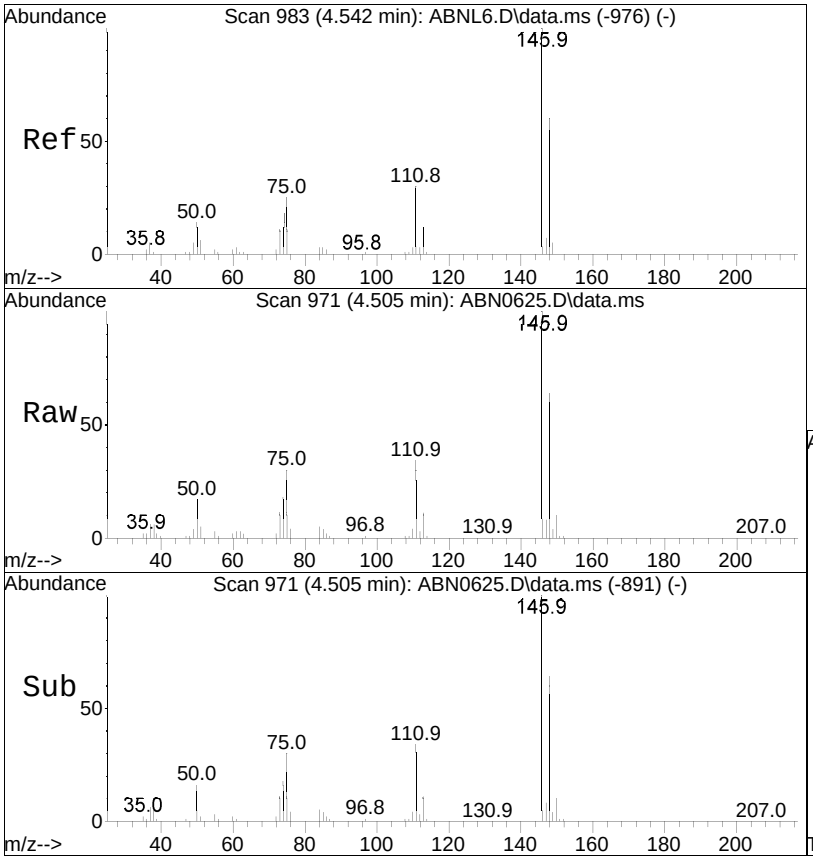


#10
1,3-Dichlorobenzene
Concen: 5.00 ug/ml M3
RT: 4.430 min Scan# 947
Delta R.T. 0.000 min
Lab File: ABN0625.D
Acq: 25 Jun 2024 7:19 am

Tgt Ion:146 Resp: 48532

Ion	Ratio	Lower	Upper
146	100		
111	35.8	34.3	51.5
148	66.4	50.8	76.2

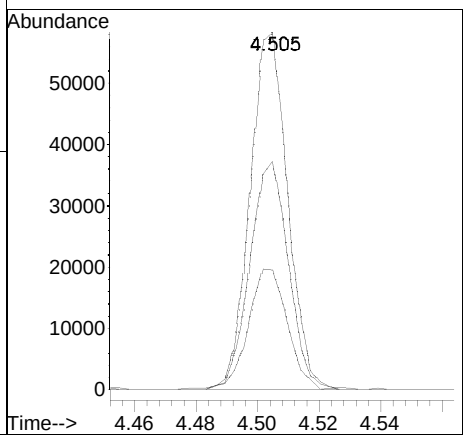


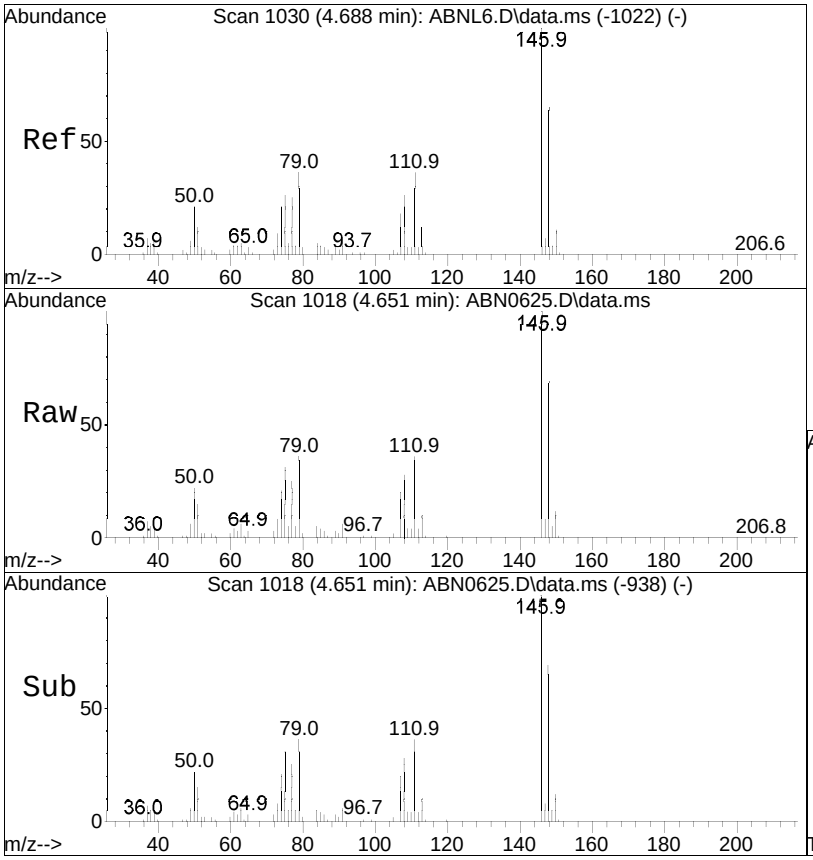


#11
1,4-Dichlorobenzene
Concen: 4.90 ug/ml
RT: 4.505 min Scan# 971
Delta R.T. 0.000 min
Lab File: ABN0625.D
Acq: 25 Jun 2024 7:19 am

Tgt Ion:146 Resp: 49253

Ion	Ratio	Lower	Upper
146	100		
148	65.4	50.7	76.1
111	35.3	33.4	50.0

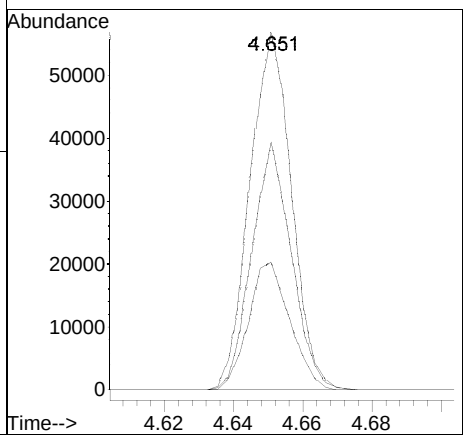


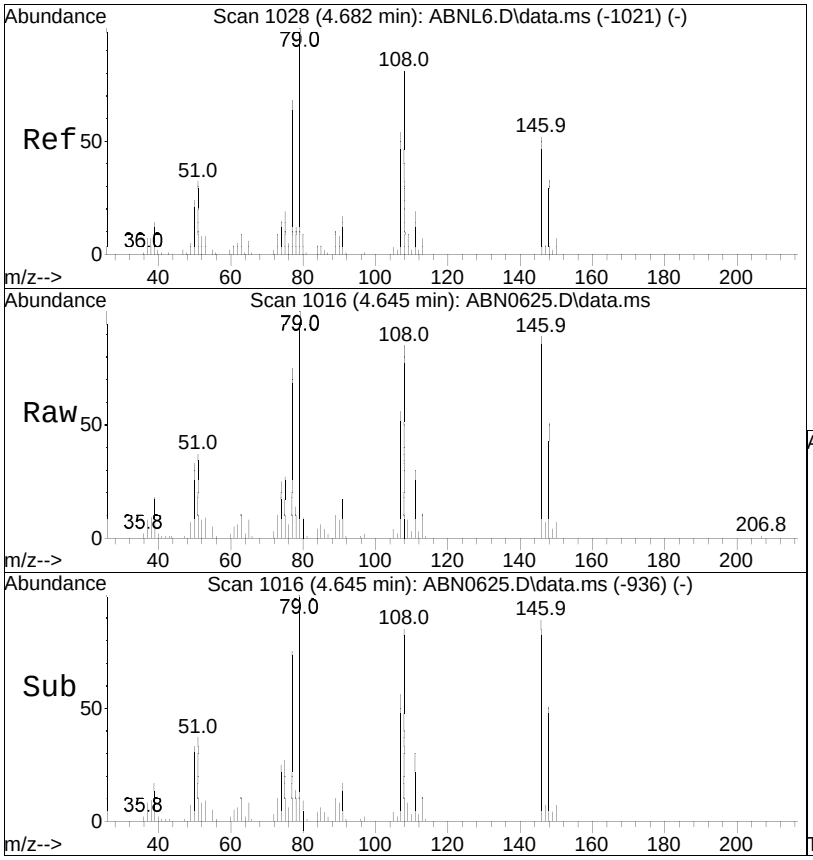


#12
1,2-Dichlorobenzene
Concen: 4.94 ug/ml
RT: 4.651 min Scan# 1018
Delta R.T. 0.000 min
Lab File: ABN0625.D
Acq: 25 Jun 2024 7:19 am

Tgt Ion:146 Resp: 47160

Ion	Ratio	Lower	Upper
146	100		
111	35.7	34.6	52.0
148	65.9	50.2	75.4

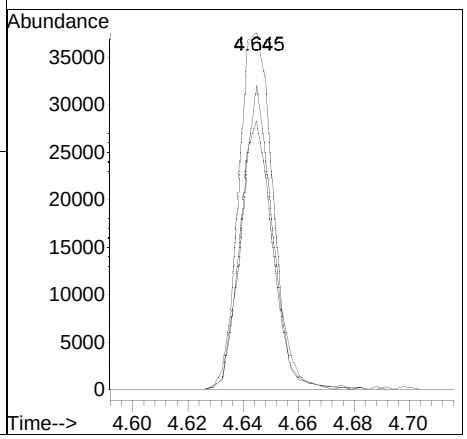


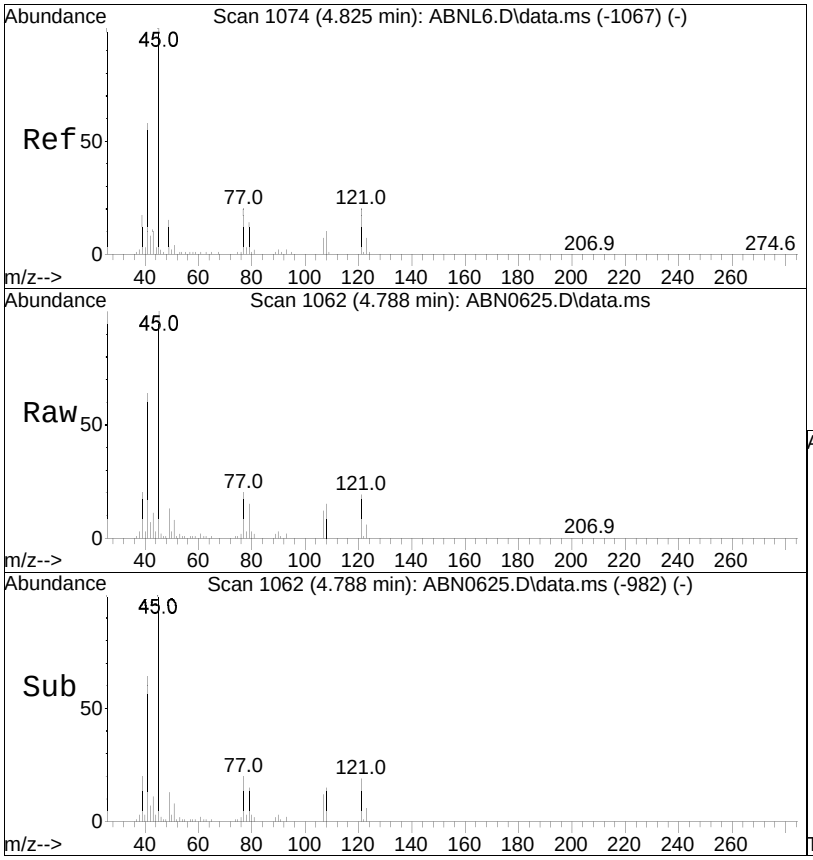


#13
Benzyl alcohol
Concen: 5.09 ug/ml
RT: 4.645 min Scan# 1016
Delta R.T. 0.000 min
Lab File: ABN0625.D
Acq: 25 Jun 2024 7:19 am

Tgt Ion: 79 Resp: 32535

Ion	Ratio	Lower	Upper
79	100		
77	71.8	54.9	82.3
108	75.2	63.1	94.7

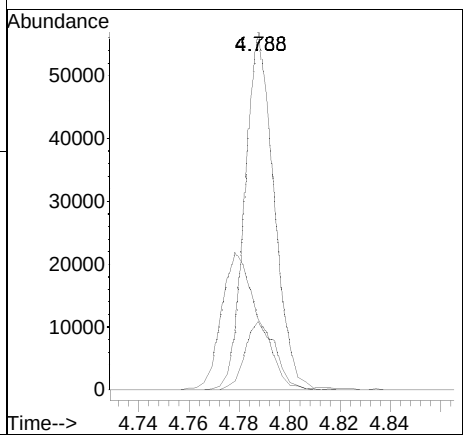


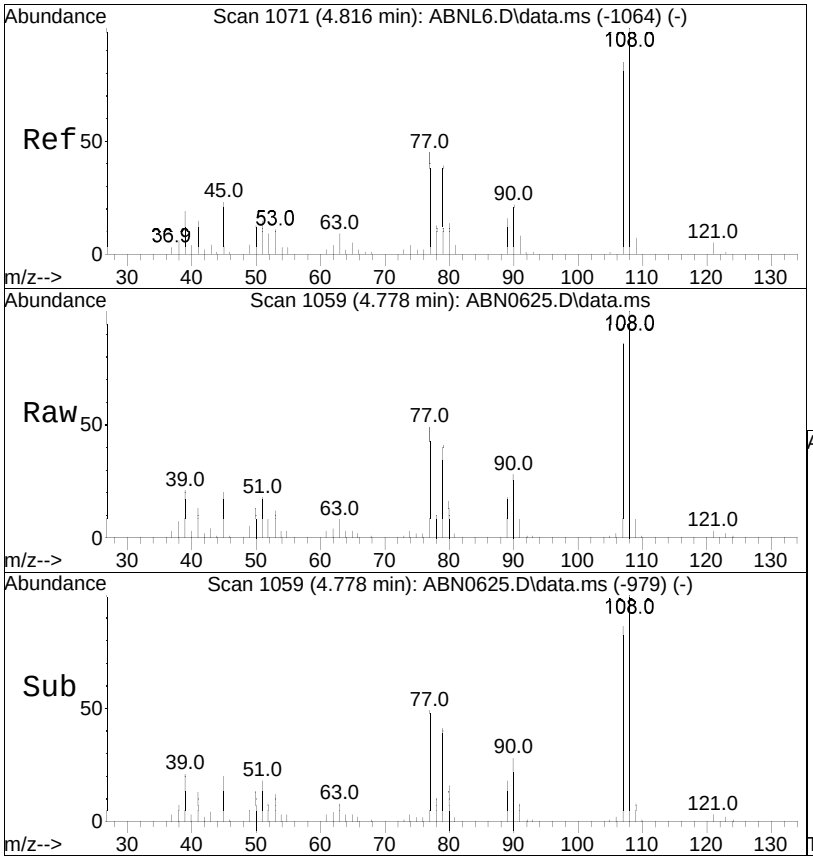


#14
Bis(2-chloroisopropyl)ether
Concen: 4.69 ug/ml
RT: 4.788 min Scan# 1062
Delta R.T. 0.000 min
Lab File: ABN0625.D
Acq: 25 Jun 2024 7:19 am

Tgt Ion: 45 Resp: 45520

Ion	Ratio	Lower	Upper
45	100		
121	19.9	9.8	14.6#
77	49.1	6.1	9.1#

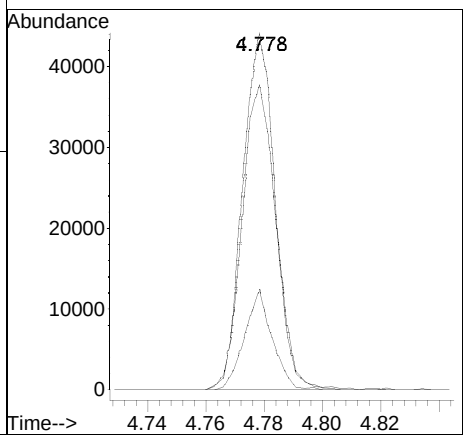


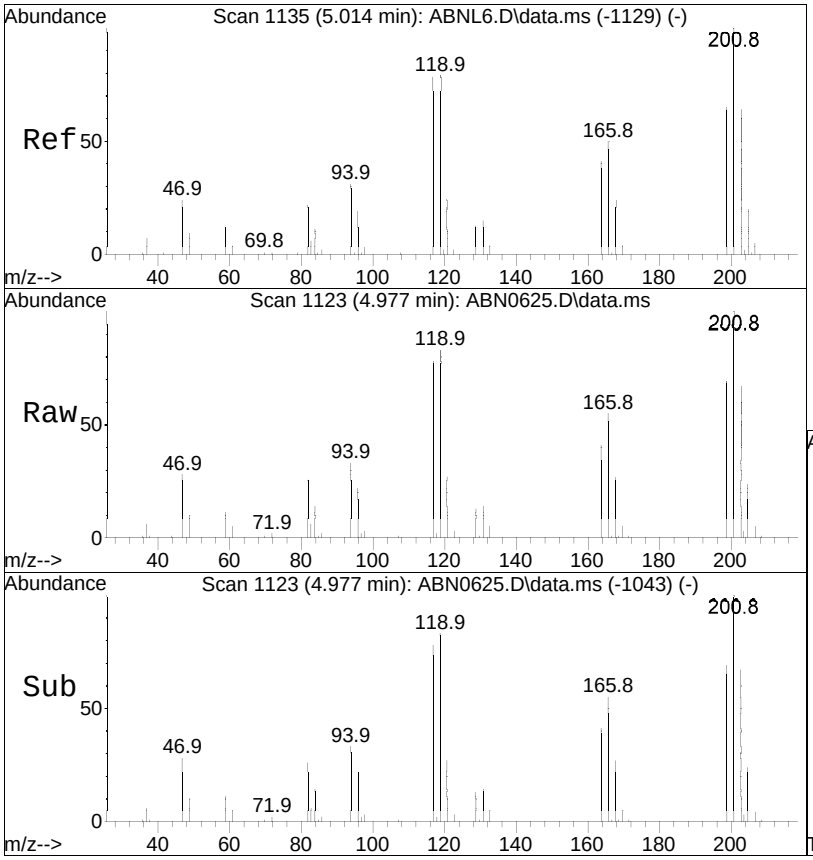


#15
2-Methylphenol
Concen: 4.98 ug/ml
RT: 4.778 min Scan# 1059
Delta R.T. 0.000 min
Lab File: ABN0625.D
Acq: 25 Jun 2024 7:19 am

Tgt Ion:108 Resp: 33982

Ion	Ratio	Lower	Upper
108	100		
107	87.9	70.7	106.1
90	24.0	18.7	28.1

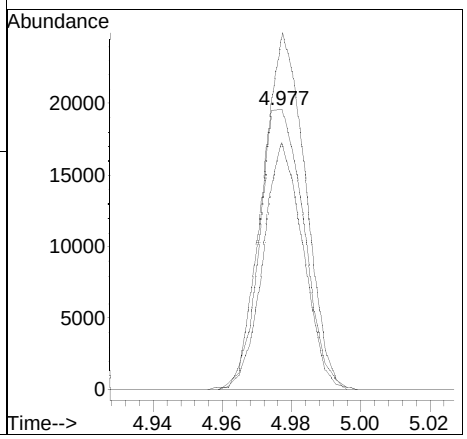


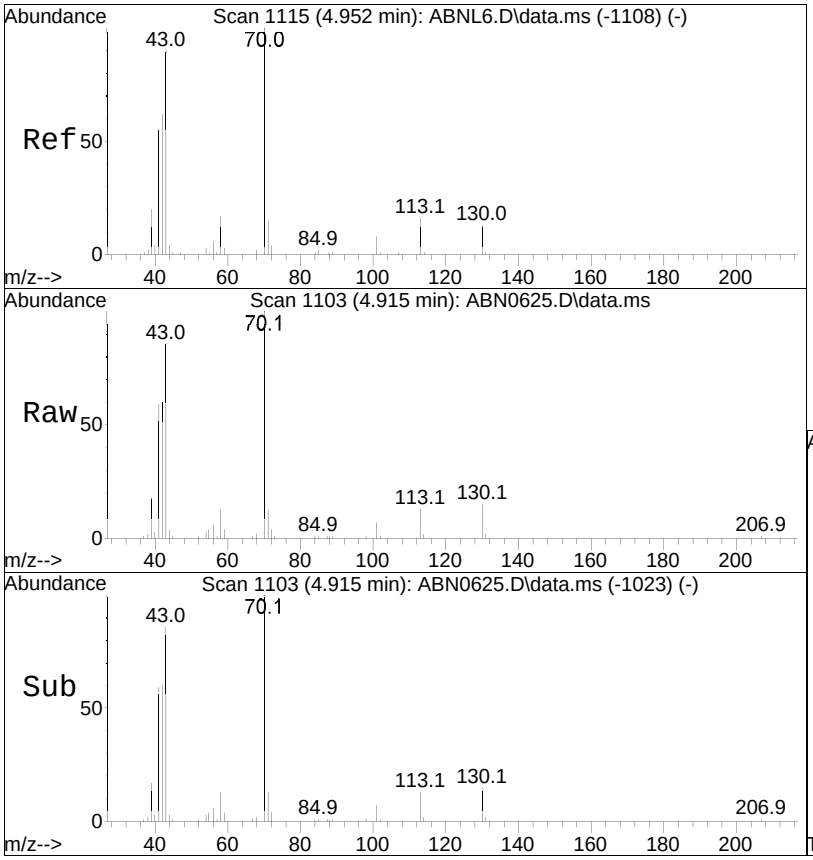


#16
Hexachloroethane
Concen: 4.87 ug/ml
RT: 4.977 min Scan# 1123
Delta R.T. 0.000 min
Lab File: ABN0625.D
Acq: 25 Jun 2024 7:19 am

Tgt Ion:117 Resp: 17401

Ion	Ratio	Lower	Upper
117	100		
201	123.3	58.6	87.8#
199	80.0	36.9	55.3#

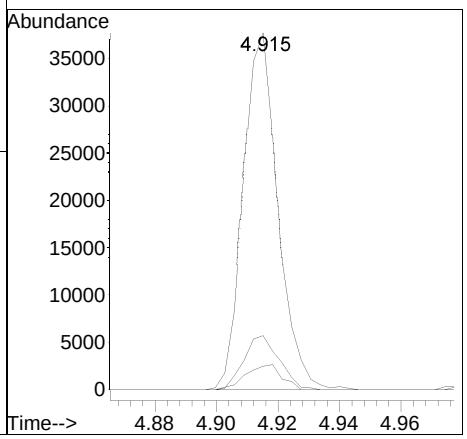


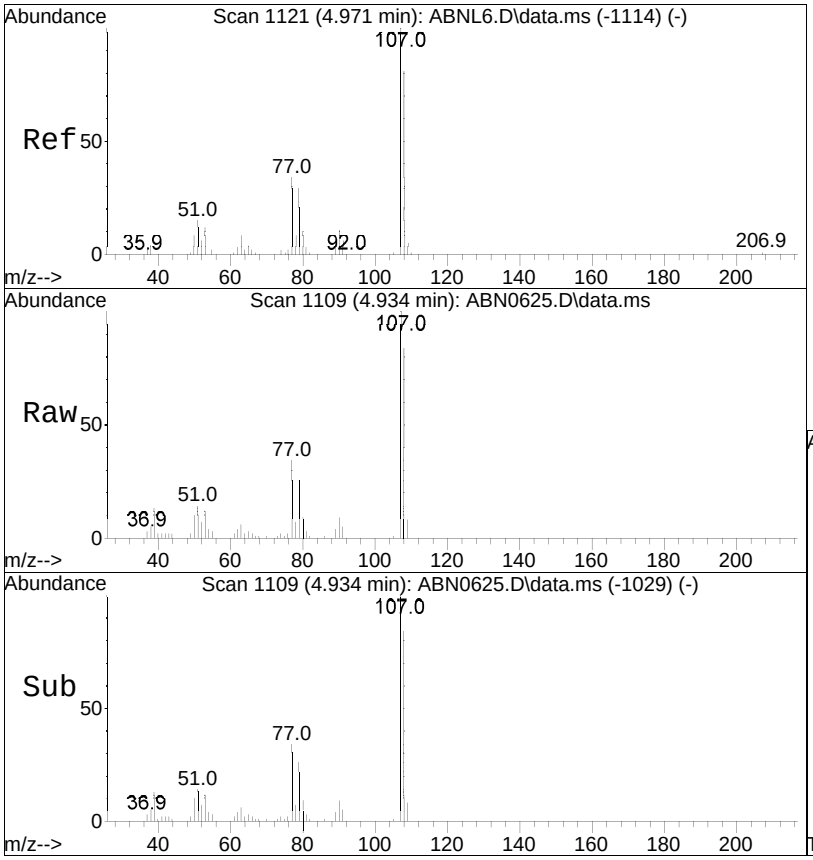


#17
n-Nitrosodi-n-propylamine
Concen: 4.91 ug/ml
RT: 4.915 min Scan# 1103
Delta R.T. 0.000 min
Lab File: ABN0625.D
Acq: 25 Jun 2024 7:19 am

Tgt Ion: 70 Resp: 29423

Ion	Ratio	Lower	Upper
70	100		
130	15.4	18.2	27.4#
101	7.3	7.8	11.8#

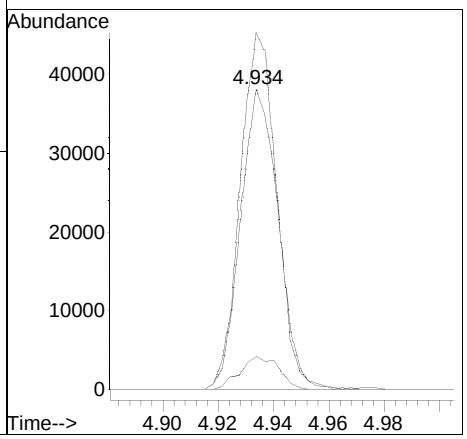


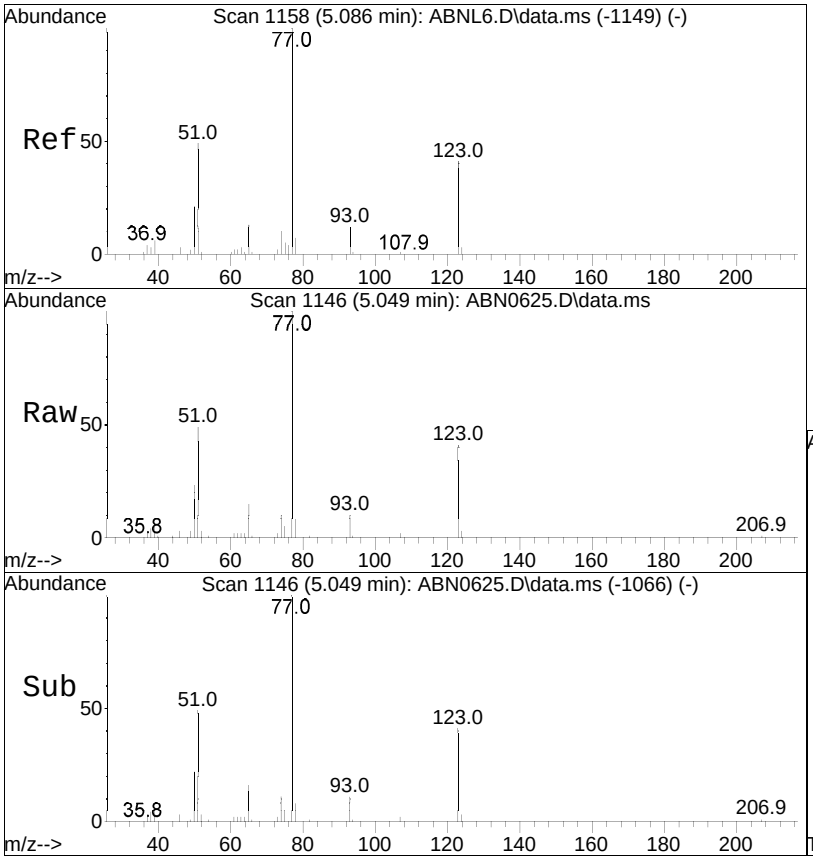


#18
3-Methylphenol/4-Methylphenol
Concen: 4.97 ug/ml
RT: 4.934 min Scan# 1109
Delta R.T. 0.000 min
Lab File: ABN0625.D
Acq: 25 Jun 2024 7:19 am

Tgt Ion:108 Resp: 35742

Ion	Ratio	Lower	Upper
108	100		
107	116.8	88.6	132.8
90	11.5	8.8	13.2

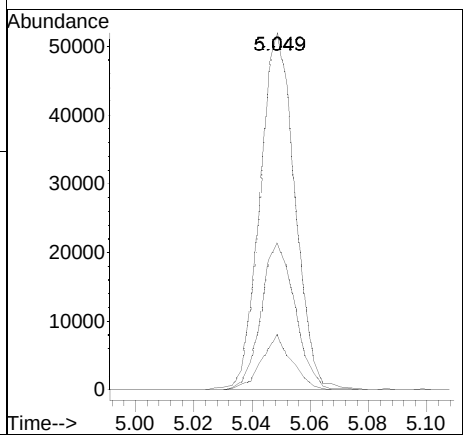


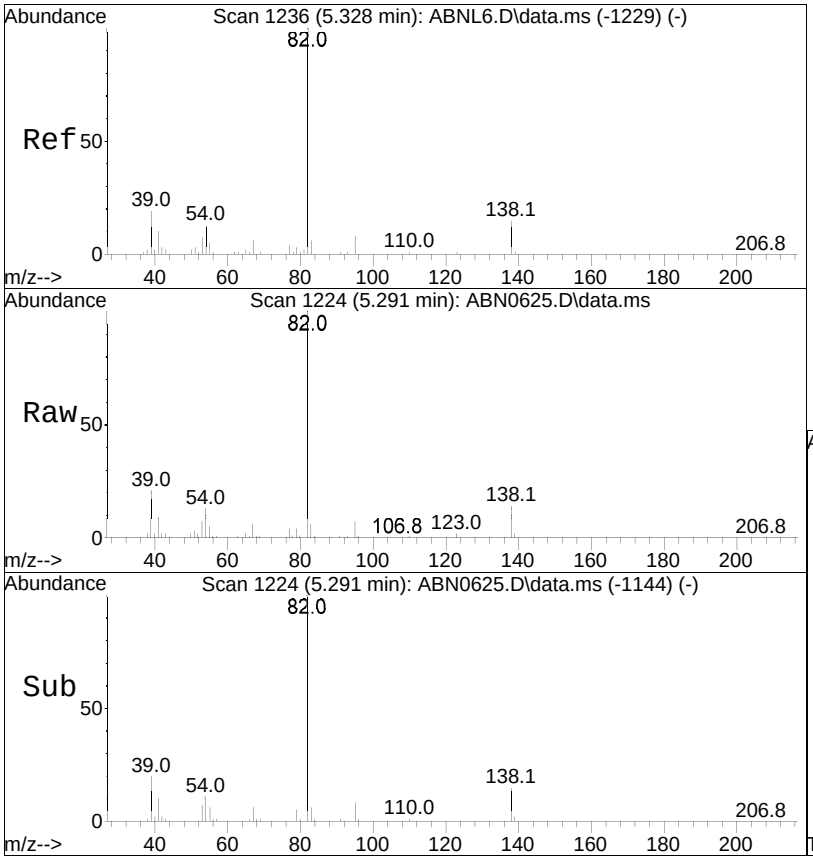


#20
Nitrobenzene
Concen: 5.03 ug/ml
RT: 5.049 min Scan# 1146
Delta R.T. 0.000 min
Lab File: ABN0625.D
Acq: 25 Jun 2024 7:19 am

Tgt Ion: 77 Resp: 42824

Ion	Ratio	Lower	Upper
77	100		
123	40.3	36.3	54.5
65	13.6	11.6	17.4

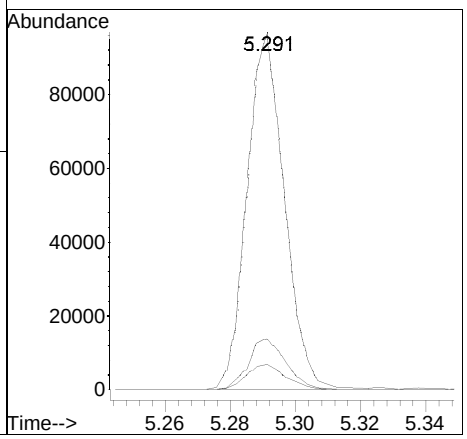


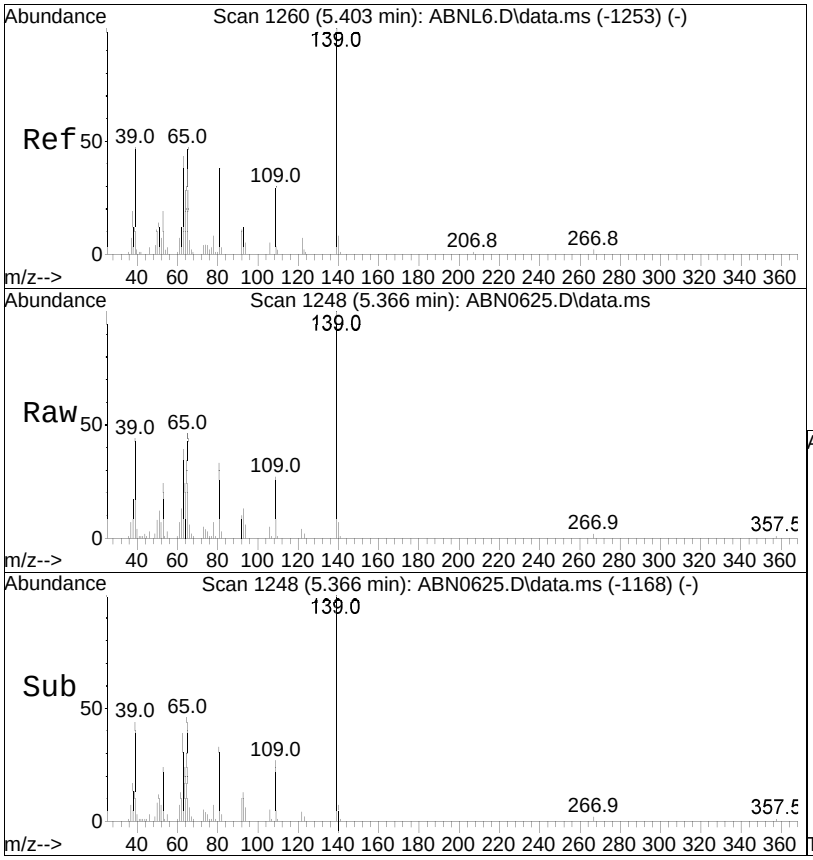


#21
Isophorone
Concen: 5.09 ug/ml
RT: 5.291 min Scan# 1224
Delta R.T. 0.000 min
Lab File: ABN0625.D
Acq: 25 Jun 2024 7:19 am

Tgt Ion: 82 Resp: 76015

Ion	Ratio	Lower	Upper
82	100		
138	14.4	14.7	22.1#
95	7.4	5.2	7.8

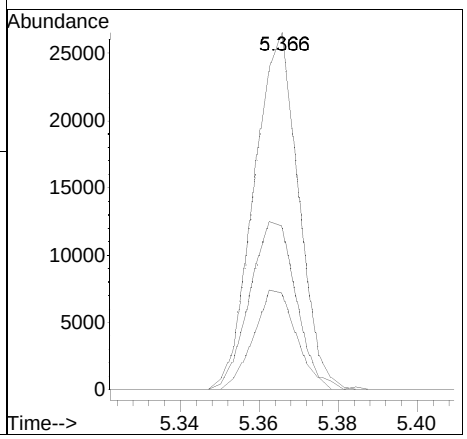


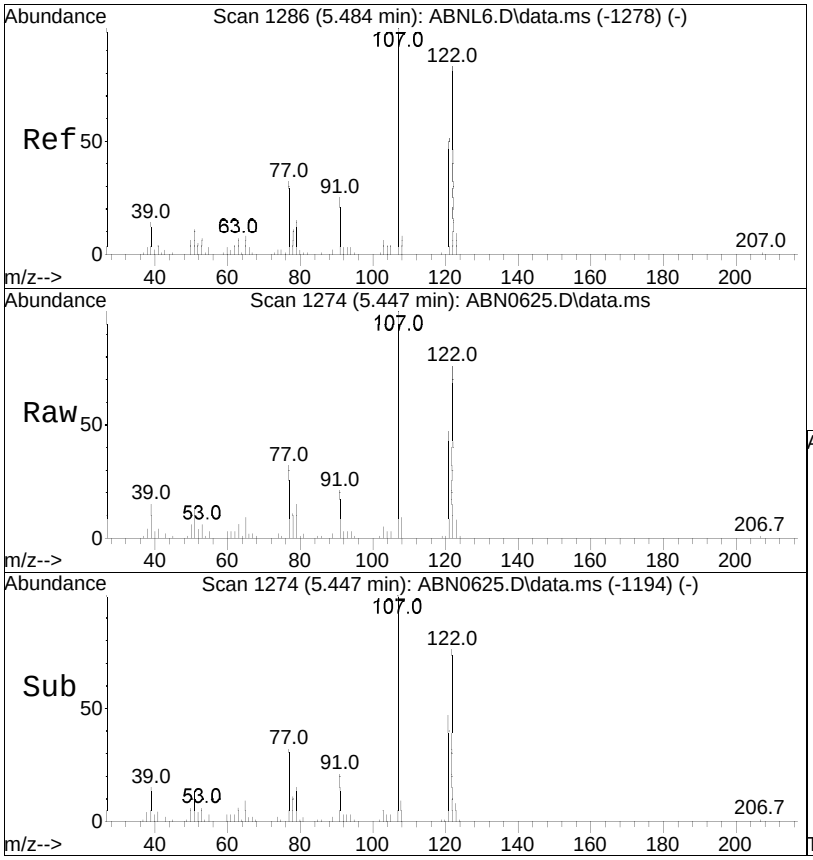


#22
2-Nitrophenol
Concen: 4.88 ug/ml
RT: 5.366 min Scan# 1248
Delta R.T. 0.000 min
Lab File: ABN0625.D
Acq: 25 Jun 2024 7:19 am

Tgt Ion:139 Resp: 20639

Ion	Ratio	Lower	Upper
139	100		
109	26.9	19.4	29.0
65	49.4	46.1	69.1

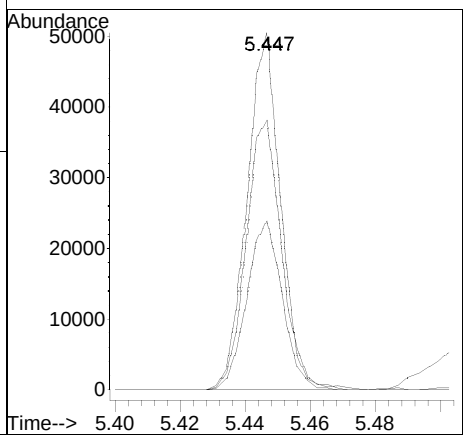


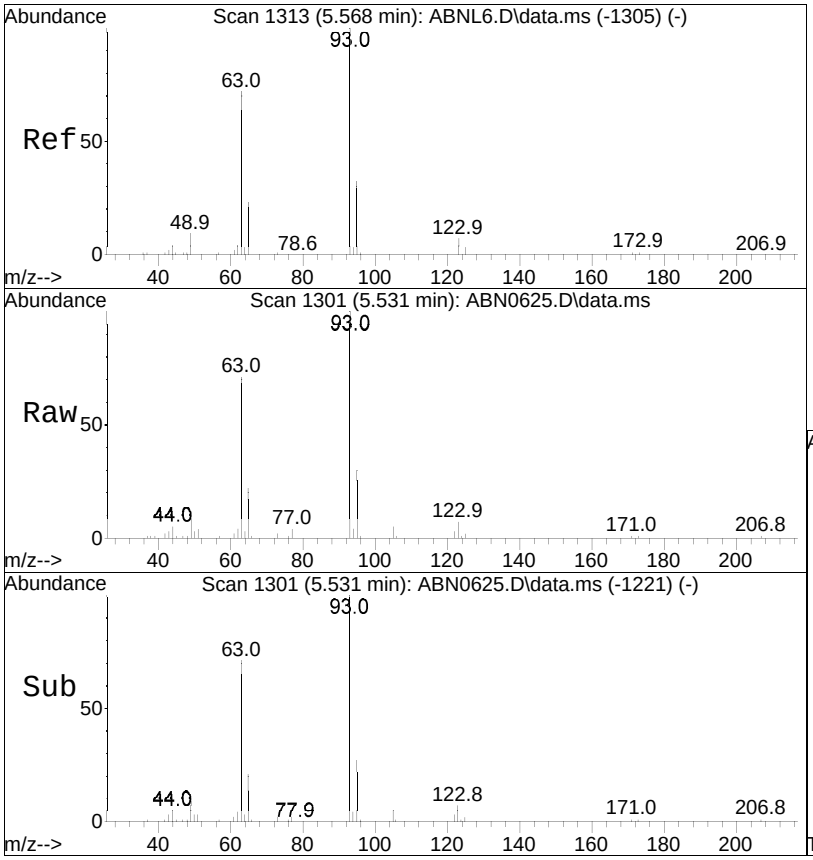


#23
2,4-Dimethylphenol
Concen: 4.99 ug/ml
RT: 5.447 min Scan# 1274
Delta R.T. 0.000 min
Lab File: ABN0625.D
Acq: 25 Jun 2024 7:19 am

Tgt Ion:107 Resp: 35904

Ion	Ratio	Lower	Upper
107	100		
121	50.3	40.0	60.0
122	79.8	70.2	105.4

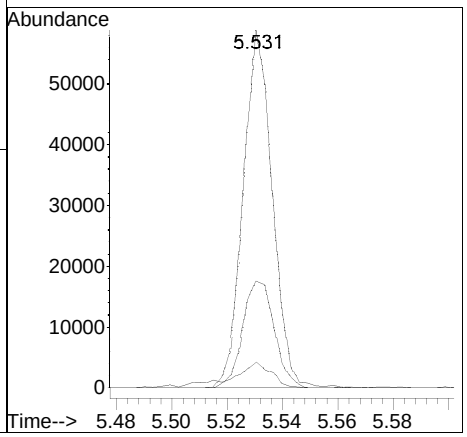


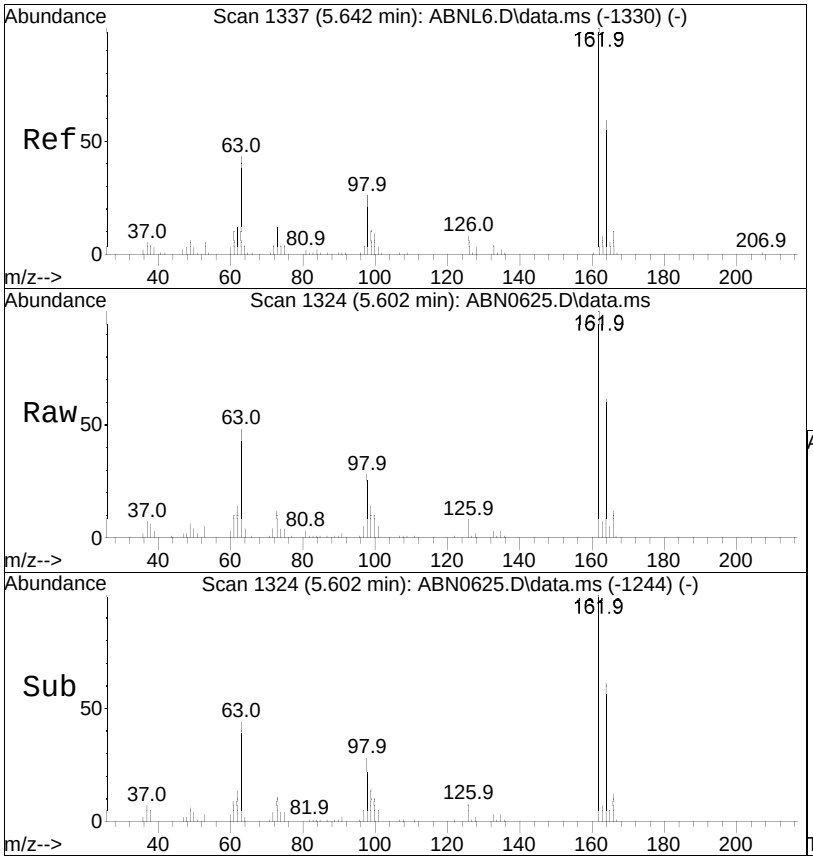


#24
Bis(2-chloroethoxy)methane
Concen: 4.68 ug/ml
RT: 5.531 min Scan# 1301
Delta R.T. 0.000 min
Lab File: ABN0625.D
Acq: 25 Jun 2024 7:19 am

Tgt Ion: 93 Resp: 42920

Ion	Ratio	Lower	Upper
93	100		
95	32.4	25.8	38.8
123	10.5	10.1	15.1

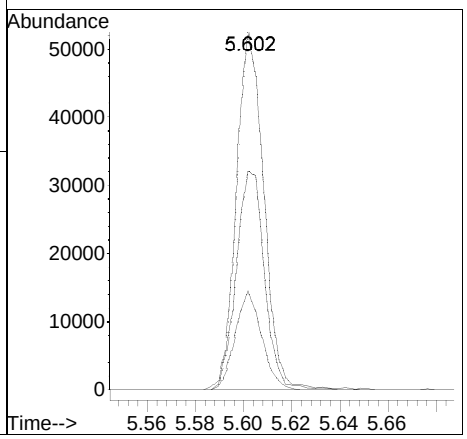


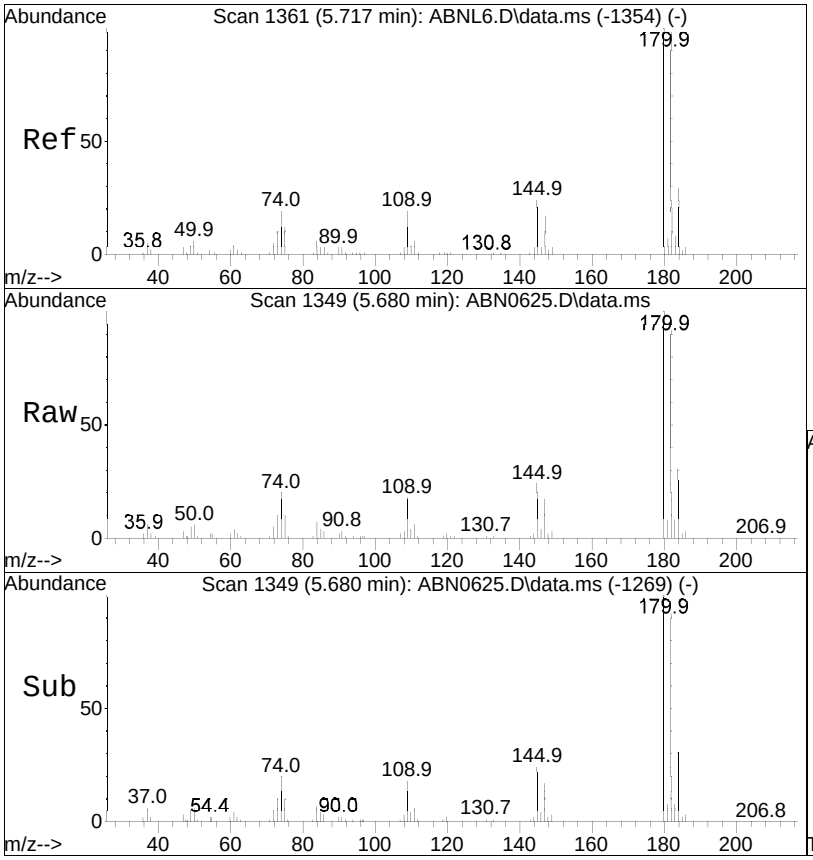


#25
2,4-Dichlorophenol
Concen: 5.06 ug/ml
RT: 5.602 min Scan# 1324
Delta R.T. 0.000 min
Lab File: ABN0625.D
Acq: 25 Jun 2024 7:19 am

Tgt Ion:162 Resp: 41076

Ion	Ratio	Lower	Upper
162	100		
164	63.1	51.0	76.4
98	26.8	32.2	48.2#

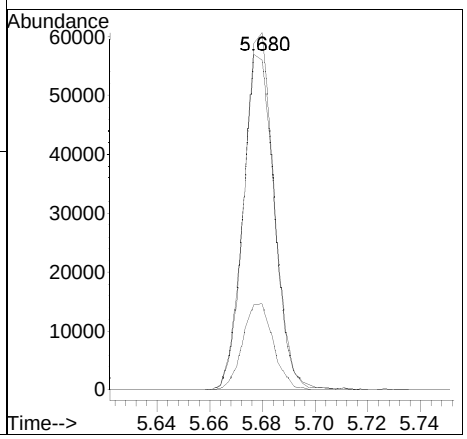


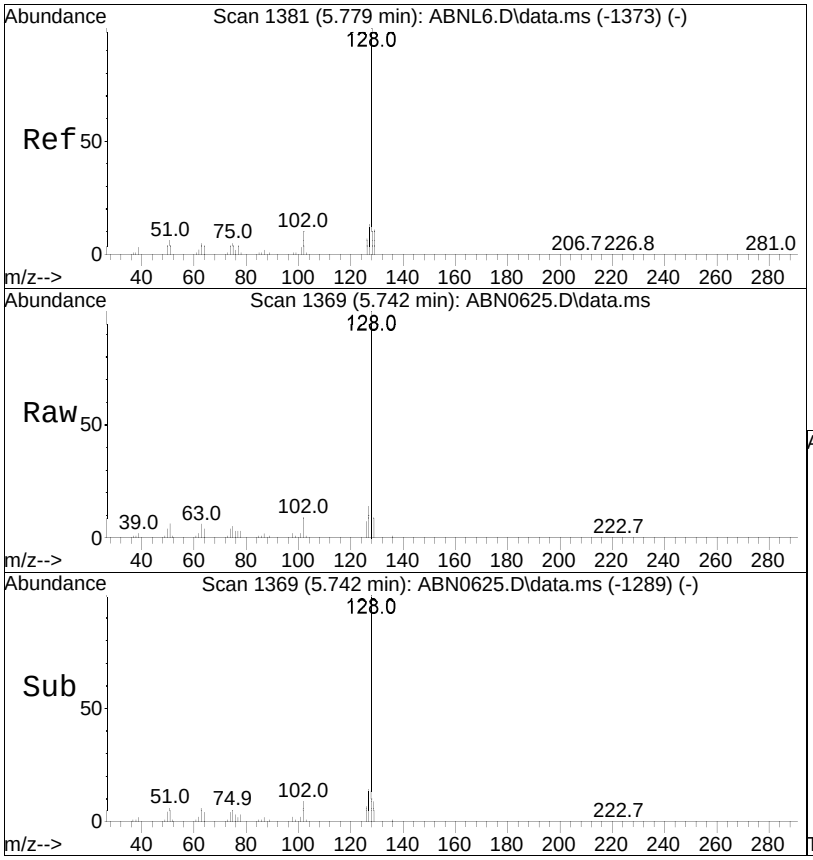


#26
1,2,4-Trichlorobenzene
Concen: 4.83 ug/ml
RT: 5.680 min Scan# 1349
Delta R.T. 0.000 min
Lab File: ABN0625.D
Acq: 25 Jun 2024 7:19 am

Tgt Ion:180 Resp: 48928

Ion	Ratio	Lower	Upper
180	100		
182	94.9	76.0	114.0
145	24.4	25.7	38.5#

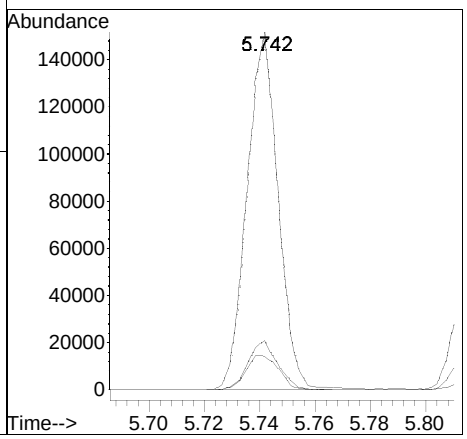


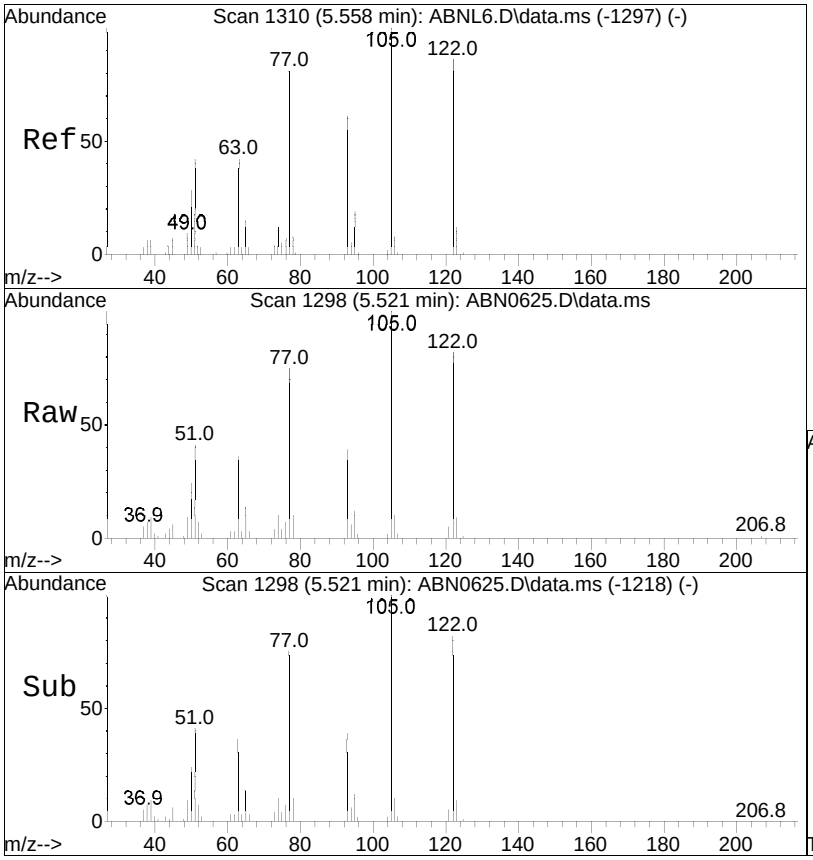


#36
Naphthalene
Concen: 4.75 ug/ml
RT: 5.742 min Scan# 1369
Delta R.T. 0.000 min
Lab File: ABN0625.D
Acq: 25 Jun 2024 7:19 am

Tgt Ion:128 Resp: 117503

Ion	Ratio	Lower	Upper
128	100		
129	10.3	8.7	13.1
127	13.3	10.3	15.5

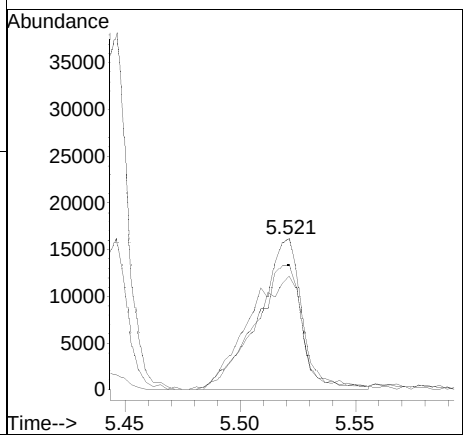


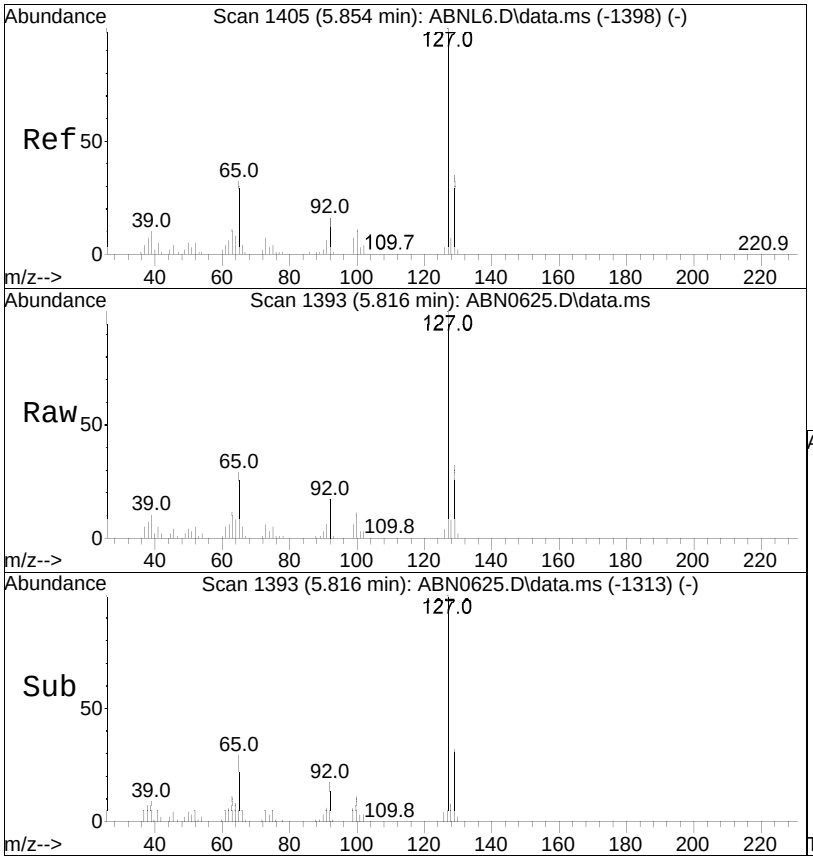


#37
Benzoic Acid
Concen: 4.32 ug/ml
RT: 5.521 min Scan# 1298
Delta R.T. 0.000 min
Lab File: ABN0625.D
Acq: 25 Jun 2024 7:19 am

Tgt Ion:105 Resp: 23257

Ion	Ratio	Lower	Upper
105	100		
122	83.9	59.9	89.9
77	79.9	60.1	90.1

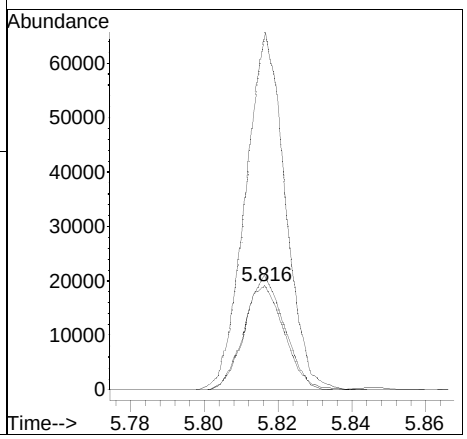


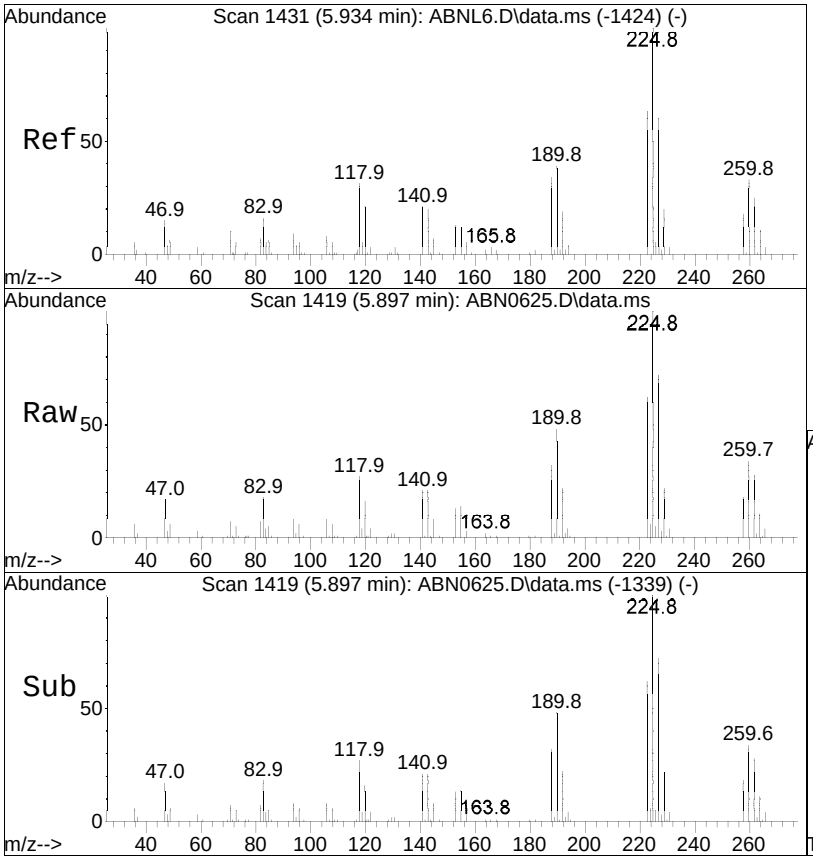


#38
4-Chloroaniline
Concen: 4.87 ug/ml
RT: 5.816 min Scan# 1393
Delta R.T. 0.000 min
Lab File: ABN0625.D
Acq: 25 Jun 2024 7:19 am

Tgt Ion: 65 Resp: 14695

Ion	Ratio	Lower	Upper
65	100		
127	332.0	237.6	356.4
129	105.8	76.3	114.5

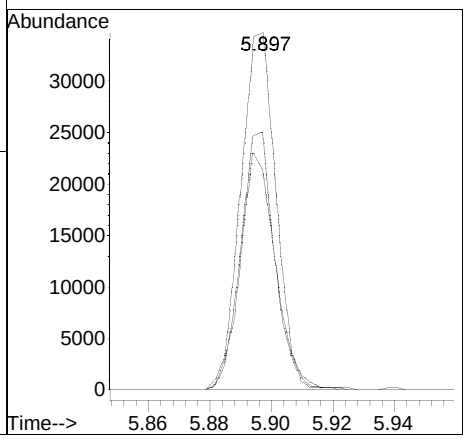


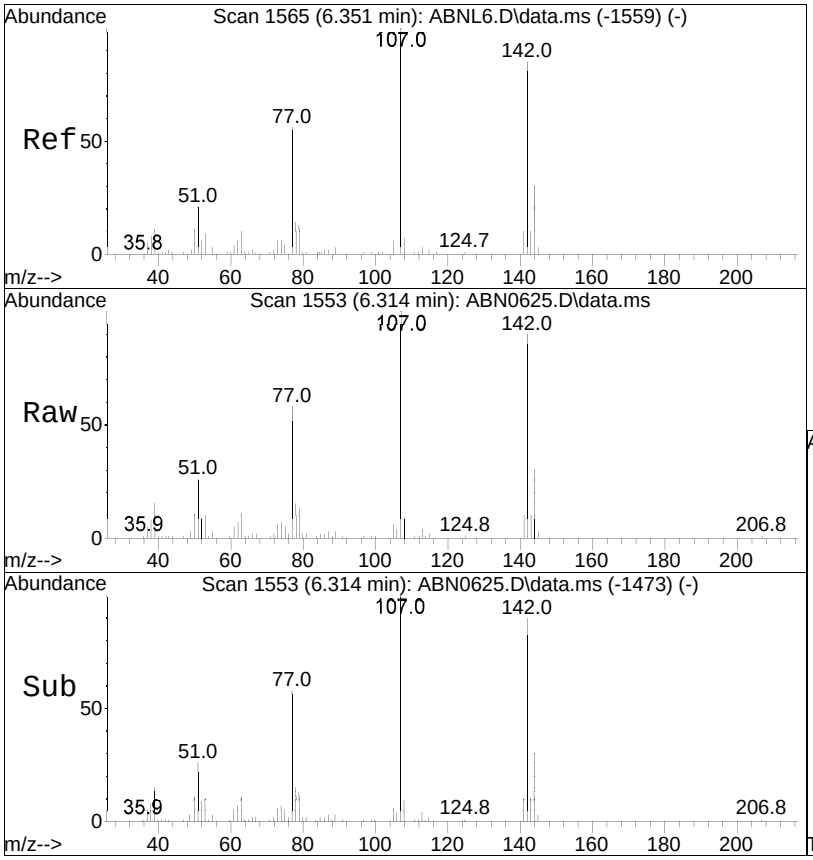


#39
Hexachlorobutadiene
Concen: 4.71 ug/ml
RT: 5.897 min Scan# 1419
Delta R.T. 0.000 min
Lab File: ABN0625.D
Acq: 25 Jun 2024 7:19 am

Tgt Ion:225 Resp: 27992

Ion	Ratio	Lower	Upper
225	100		
223	64.5	50.3	75.5
227	69.6	52.2	78.2

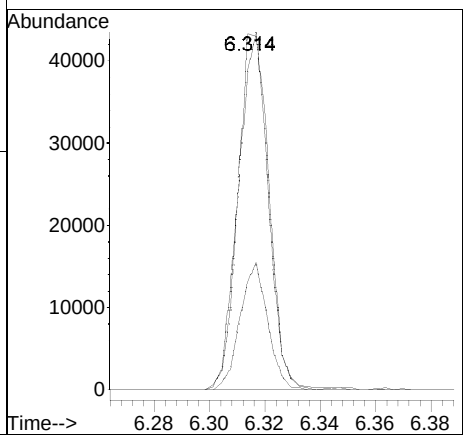


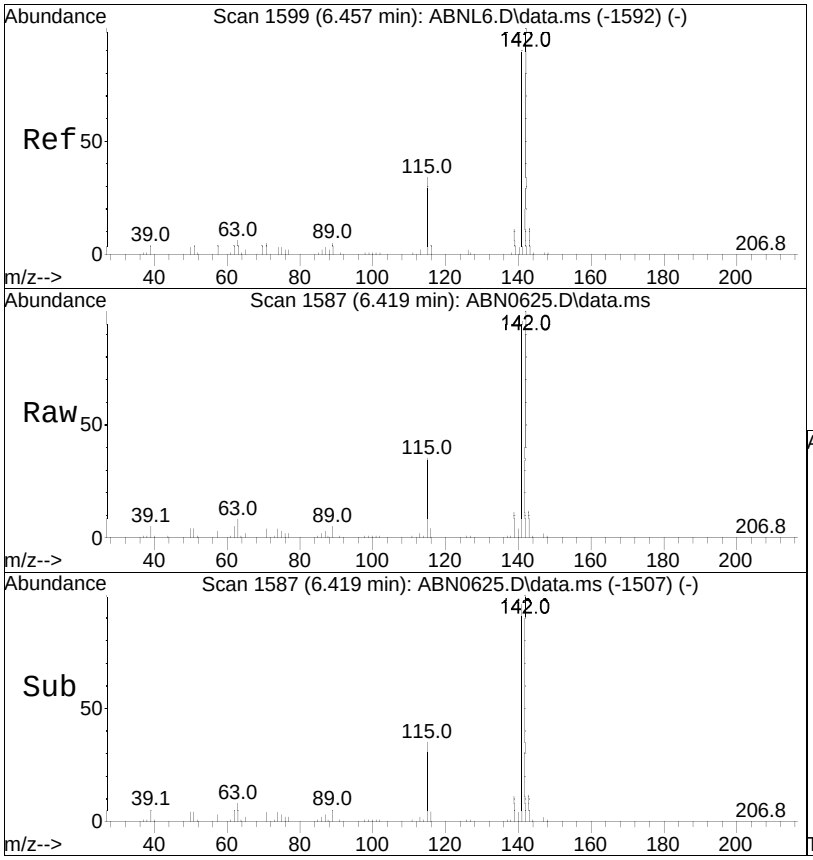


#40
p-Chloro-m-cresol
Concen: 4.94 ug/ml
RT: 6.314 min Scan# 1553
Delta R.T. 0.000 min
Lab File: ABN0625.D
Acq: 25 Jun 2024 7:19 am

Tgt Ion:107 Resp: 34172

Ion	Ratio	Lower	Upper
107	100		
144	31.2	20.9	31.3
142	93.0	66.1	99.1

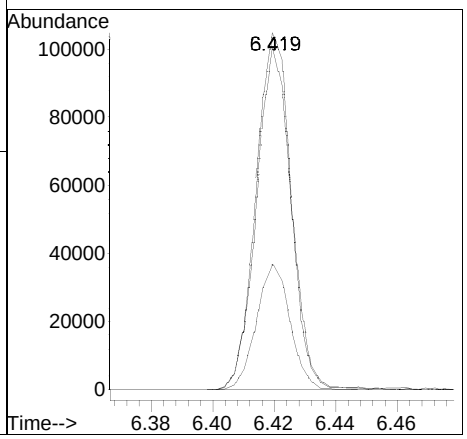


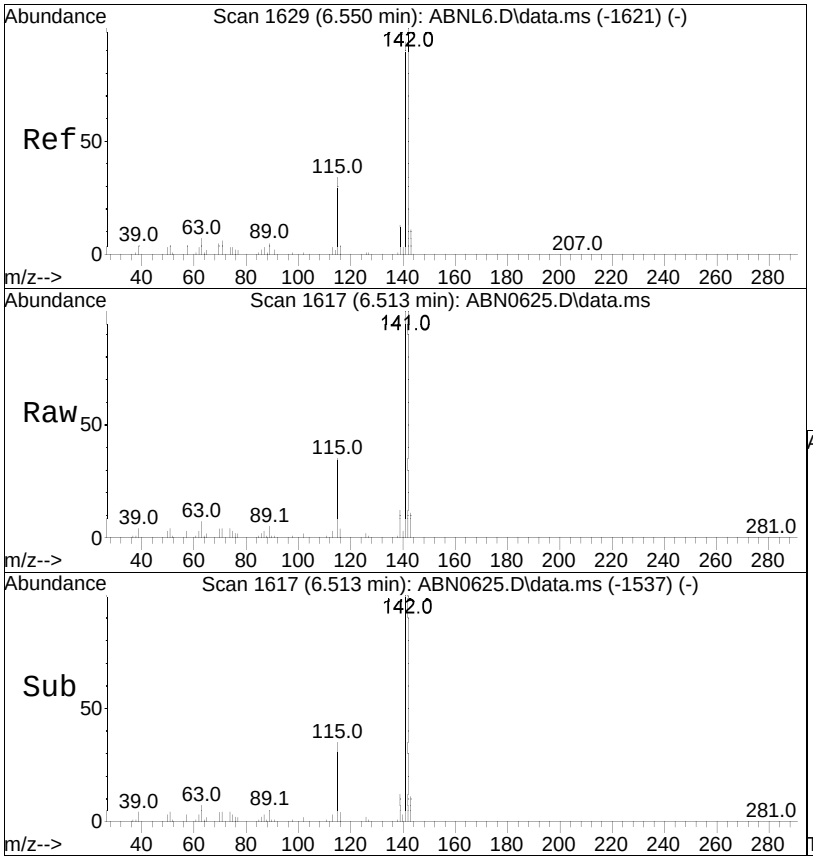


#41
2-Methylnaphthalene
Concen: 4.73 ug/ml
RT: 6.419 min Scan# 1587
Delta R.T. 0.000 min
Lab File: ABN0625.D
Acq: 25 Jun 2024 7:19 am

Tgt Ion:142 Resp: 84245

Ion	Ratio	Lower	Upper
142	100		
141	93.3	69.6	104.4
115	33.6	26.6	40.0

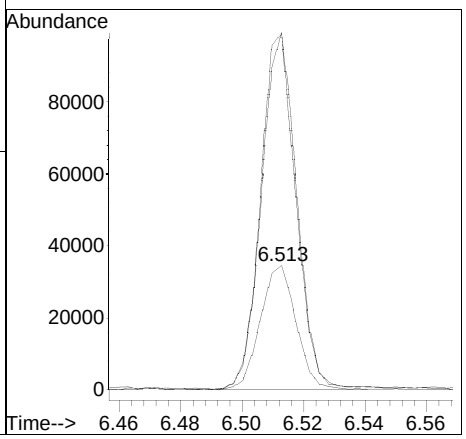


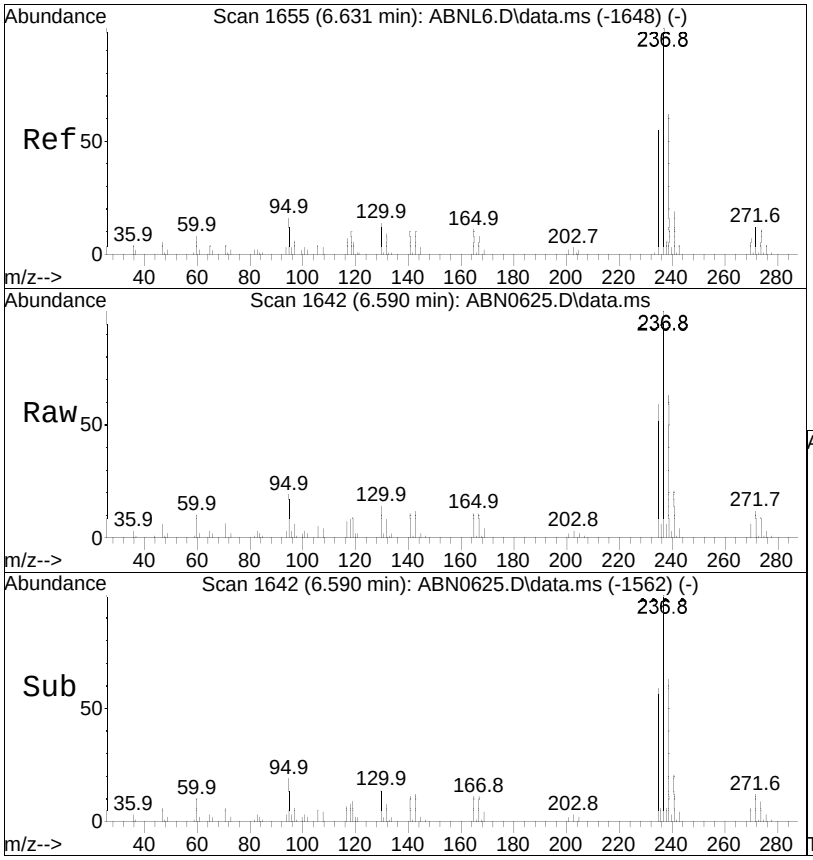


#42
1-Methylnaphthalene
Concen: 4.83 ug/ml
RT: 6.513 min Scan# 1617
Delta R.T. 0.000 min
Lab File: ABN0625.D
Acq: 25 Jun 2024 7:19 am

Tgt Ion:115 Resp: 28159

Ion	Ratio	Lower	Upper
115	100		
141	274.9	207.8	311.6
142	290.2	226.8	340.2

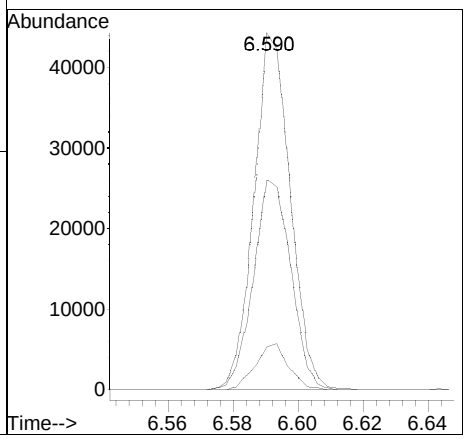


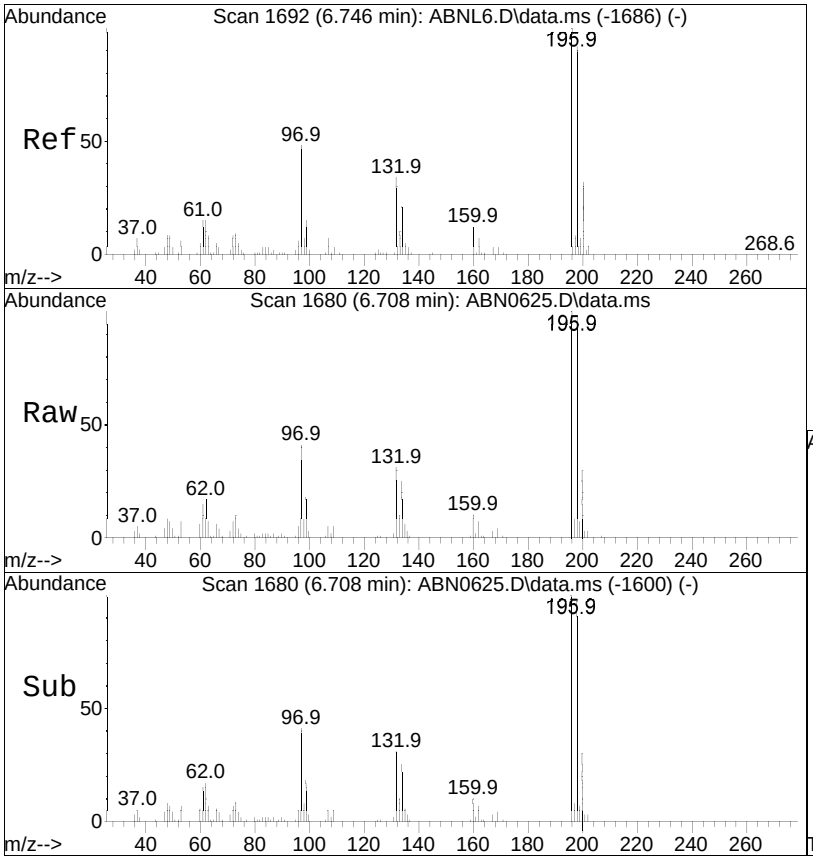


#43
Hexachlorocyclopentadiene
Concen: 4.97 ug/ml
RT: 6.590 min Scan# 1642
Delta R.T. 0.000 min
Lab File: ABN0625.D
Acq: 25 Jun 2024 7:19 am

Tgt Ion:237 Resp: 34265

Ion	Ratio	Lower	Upper
237	100		
235	61.0	49.7	74.5
272	12.0	9.8	14.6

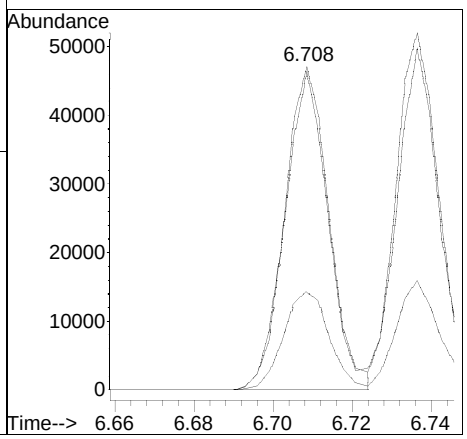


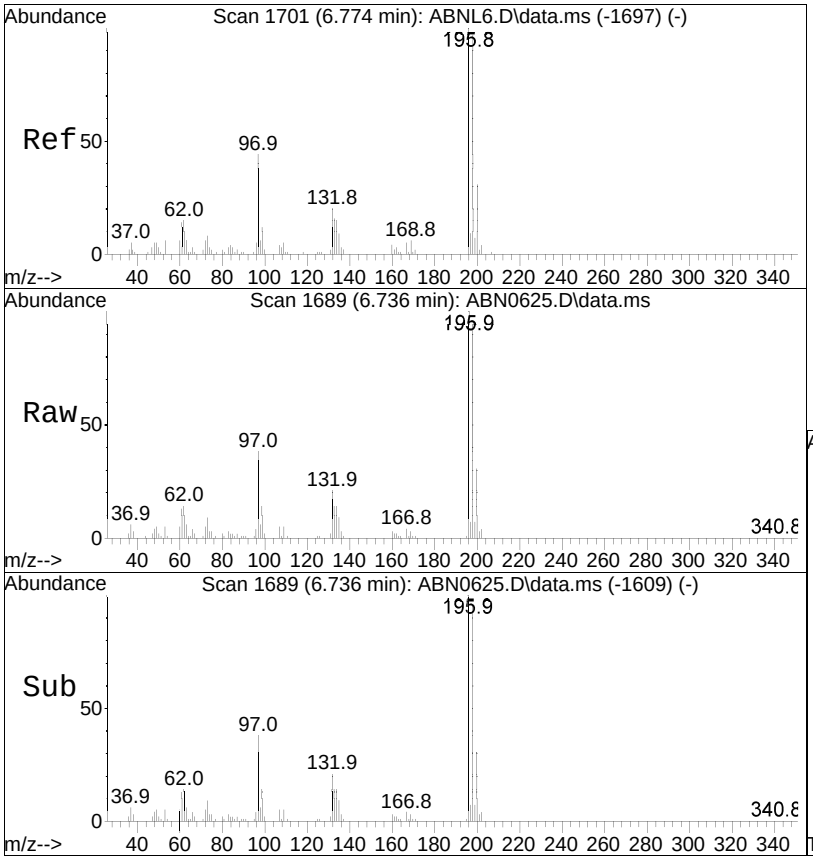


#44
2,4,6-Trichlorophenol
Concen: 5.21 ug/ml M3
RT: 6.708 min Scan# 1680
Delta R.T. 0.000 min
Lab File: ABN0625.D
Acq: 25 Jun 2024 7:19 am

Tgt Ion:196 Resp: 36660

Ion	Ratio	Lower	Upper
196	100		
198	93.7	77.5	116.3
200	31.5	23.8	35.6

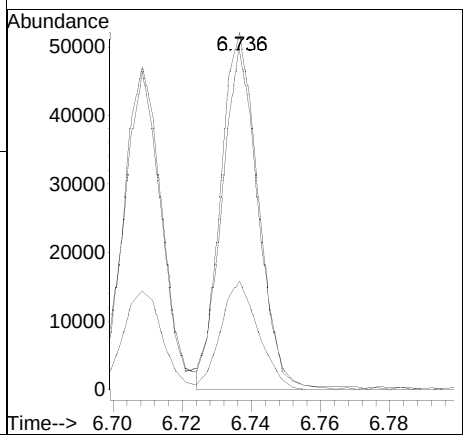


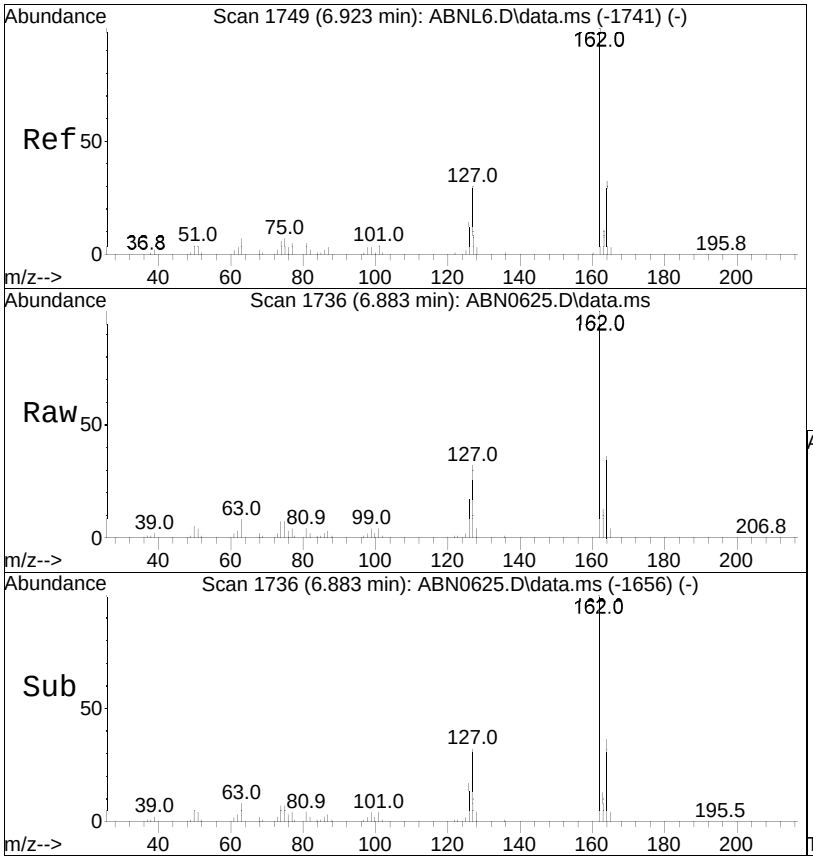


#45
2,4,5-Trichlorophenol
Concen: 5.23 ug/ml
RT: 6.736 min Scan# 1689
Delta R.T. 0.000 min
Lab File: ABN0625.D
Acq: 25 Jun 2024 7:19 am

Tgt Ion:196 Resp: 39325

Ion	Ratio	Lower	Upper
196	100		
200	30.4	25.4	38.0
198	93.8	78.0	117.0

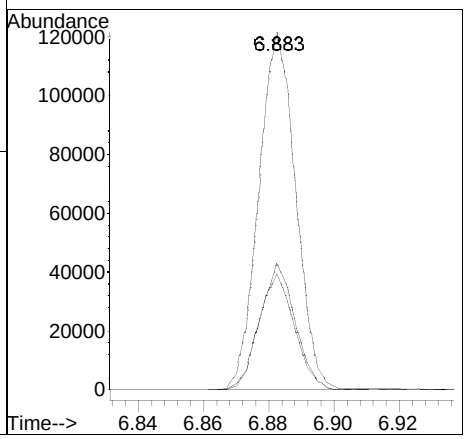


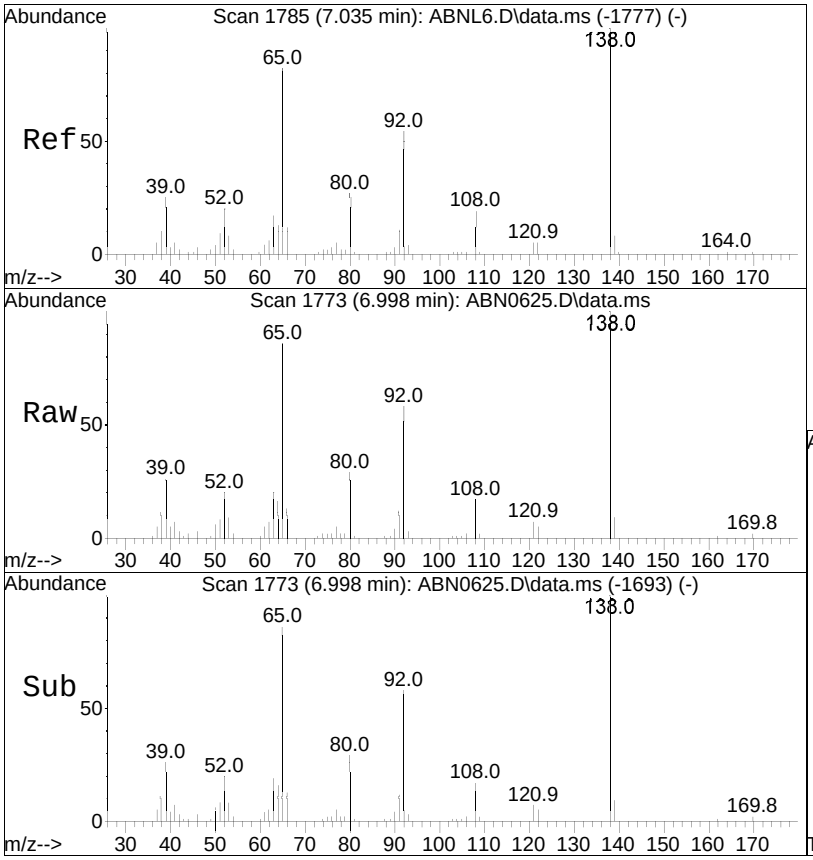


#47
2-Chloronaphthalene
Concen: 4.82 ug/ml
RT: 6.883 min Scan# 1736
Delta R.T. 0.000 min
Lab File: ABN0625.D
Acq: 25 Jun 2024 7:19 am

Tgt Ion:162 Resp: 95020

Ion	Ratio	Lower	Upper
162	100		
127	31.9	32.2	48.4#
164	33.9	25.7	38.5

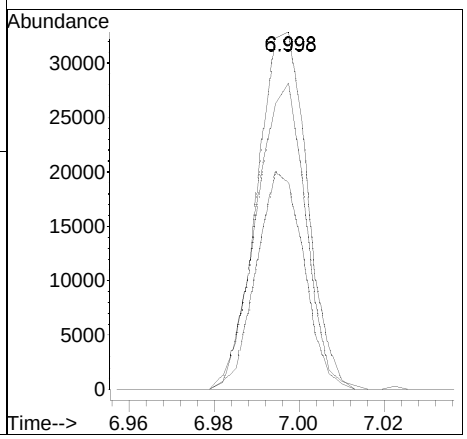


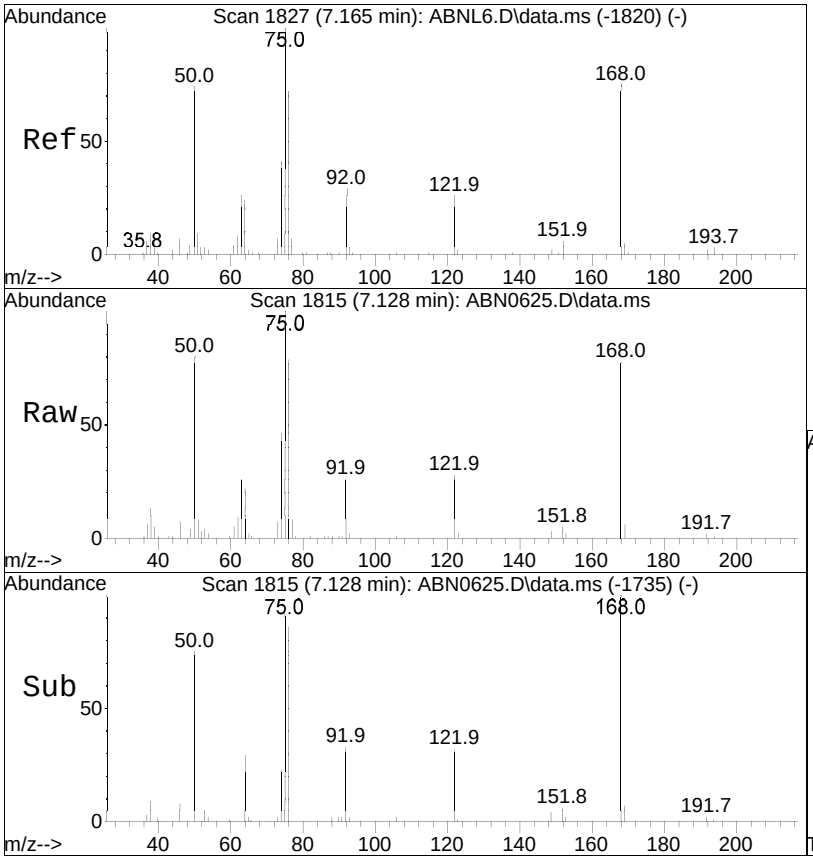


#48
2-Nitroaniline
Concen: 5.10 ug/ml
RT: 6.998 min Scan# 1773
Delta R.T. 0.000 min
Lab File: ABN0625.D
Acq: 25 Jun 2024 7:19 am

Tgt Ion:138 Resp: 26796

Ion	Ratio	Lower	Upper
138	100		
92	58.1	53.5	80.3
65	84.0	86.3	129.5#

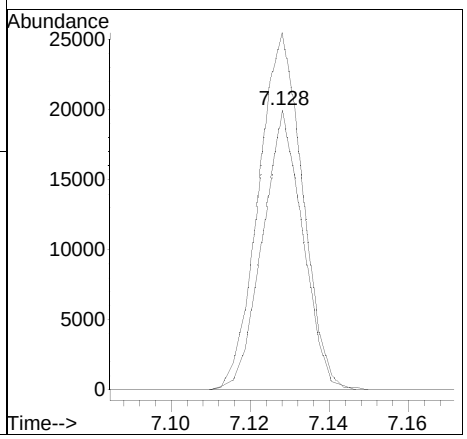


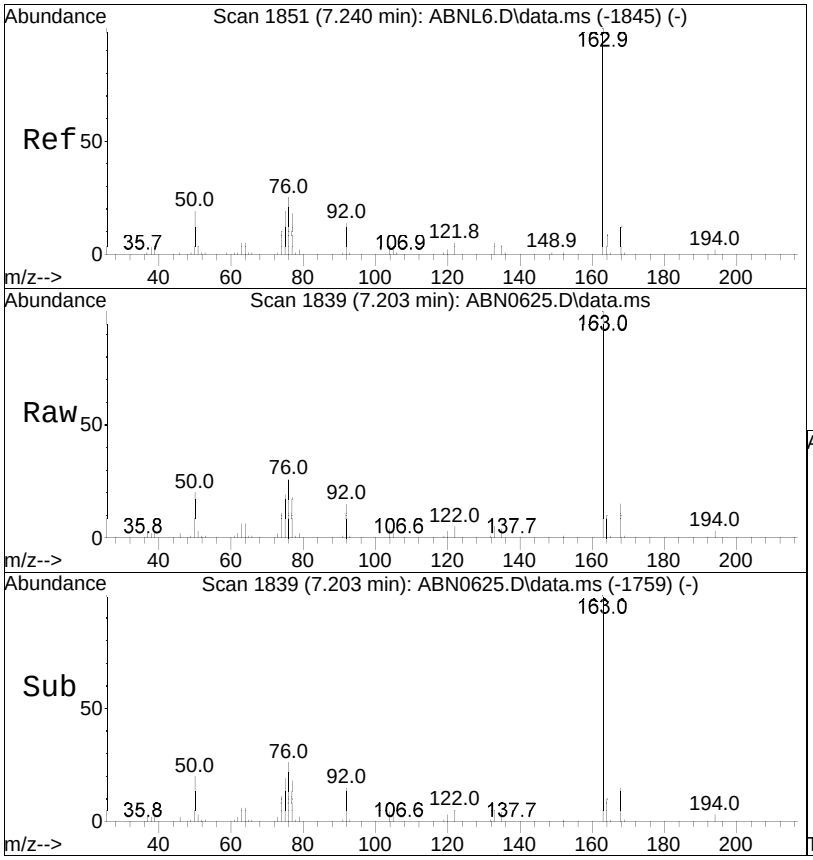


#49
1,4-Dinitrobenzene
Concen: 5.05 ug/ml
RT: 7.128 min Scan# 1815
Delta R.T. 0.000 min
Lab File: ABN0625.D
Acq: 25 Jun 2024 7:19 am

Tgt Ion:168 Resp: 14090

Ion	Ratio	Lower	Upper
168	100		
75	139.7	121.8	182.8

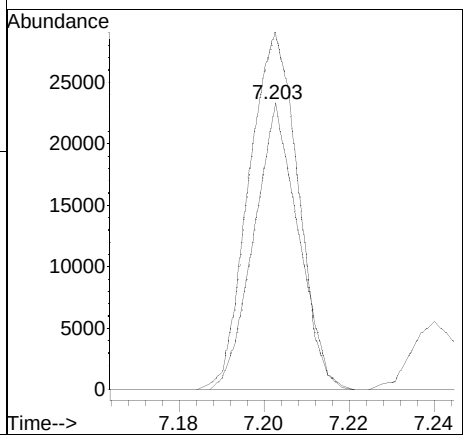


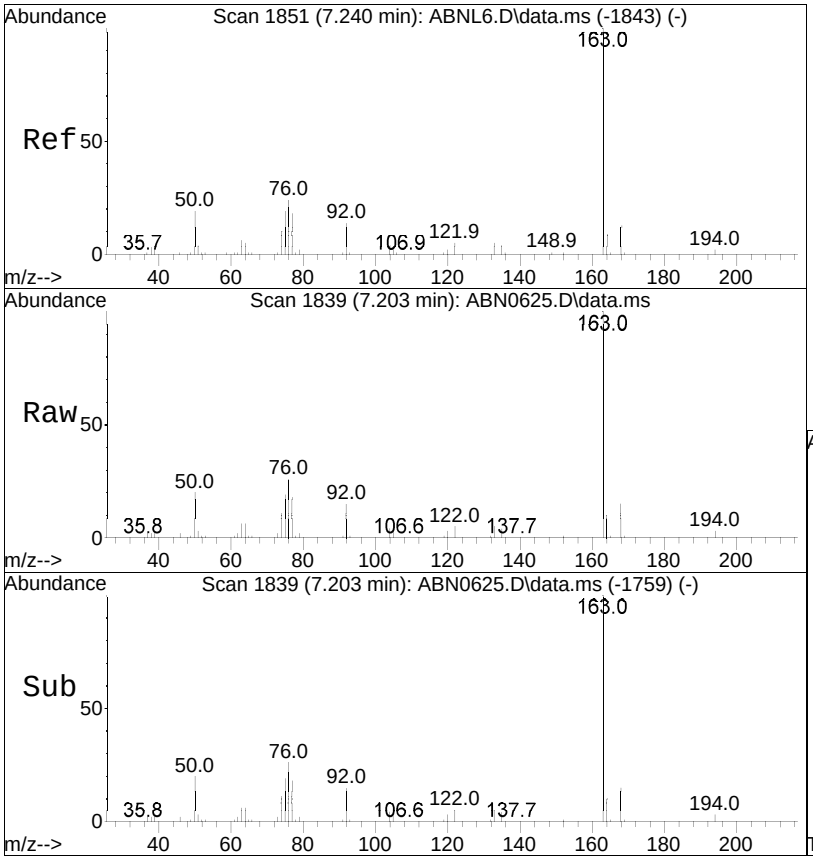


#50
1,3-Dinitrobenzene
Concen: 5.60 ug/ml
RT: 7.203 min Scan# 1839
Delta R.T. 0.000 min
Lab File: ABN0625.D
Acq: 25 Jun 2024 7:19 am

Tgt Ion:168 Resp: 16865

Ion	Ratio	Lower	Upper
168	100		
75	136.8	22.7	34.1#

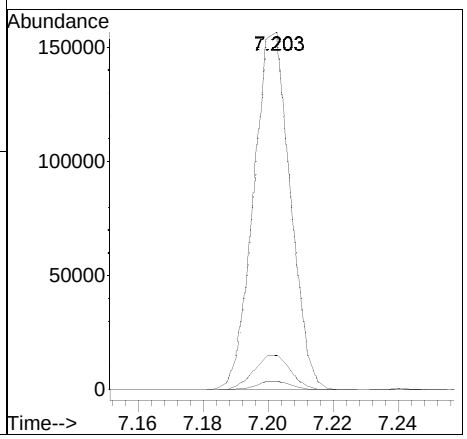


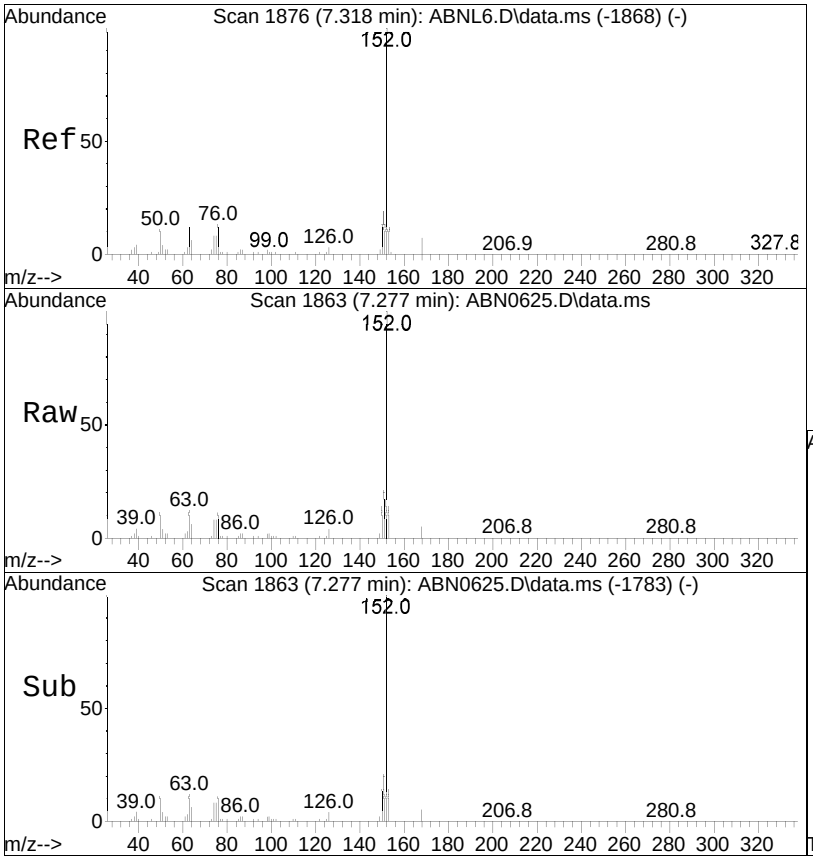


#51
Dimethyl phthalate
Concen: 4.96 ug/ml
RT: 7.203 min Scan# 1839
Delta R.T. 0.000 min
Lab File: ABN0625.D
Acq: 25 Jun 2024 7:19 am

Tgt Ion:163 Resp: 121620

Ion	Ratio	Lower	Upper
163	100		
194	2.4	3.5	5.3#
164	9.8	7.9	11.9

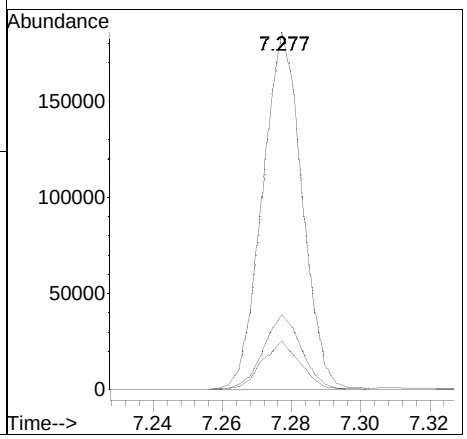


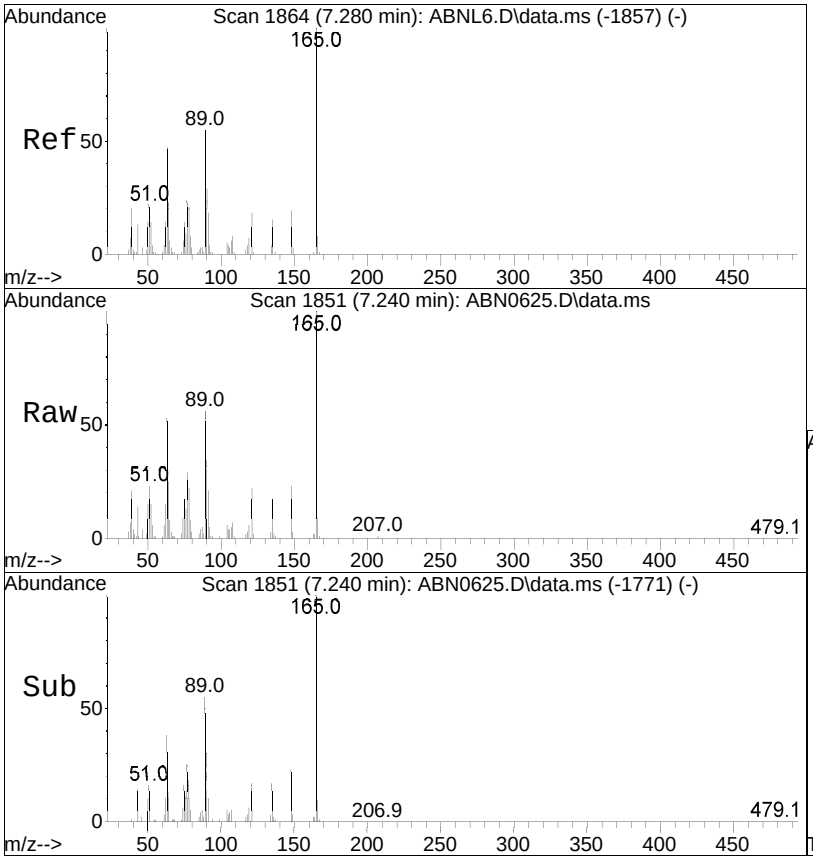


#52
Acenaphthylene
Concen: 4.98 ug/ml
RT: 7.277 min Scan# 1863
Delta R.T. 0.000 min
Lab File: ABN0625.D
Acq: 25 Jun 2024 7:19 am

Tgt Ion:152 Resp: 146750

Ion	Ratio	Lower	Upper
152	100		
151	20.3	15.8	23.6
153	13.1	10.5	15.7

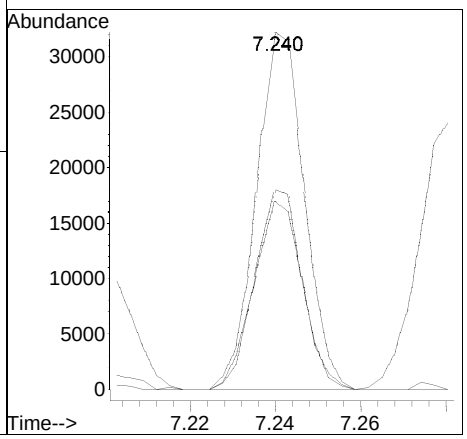


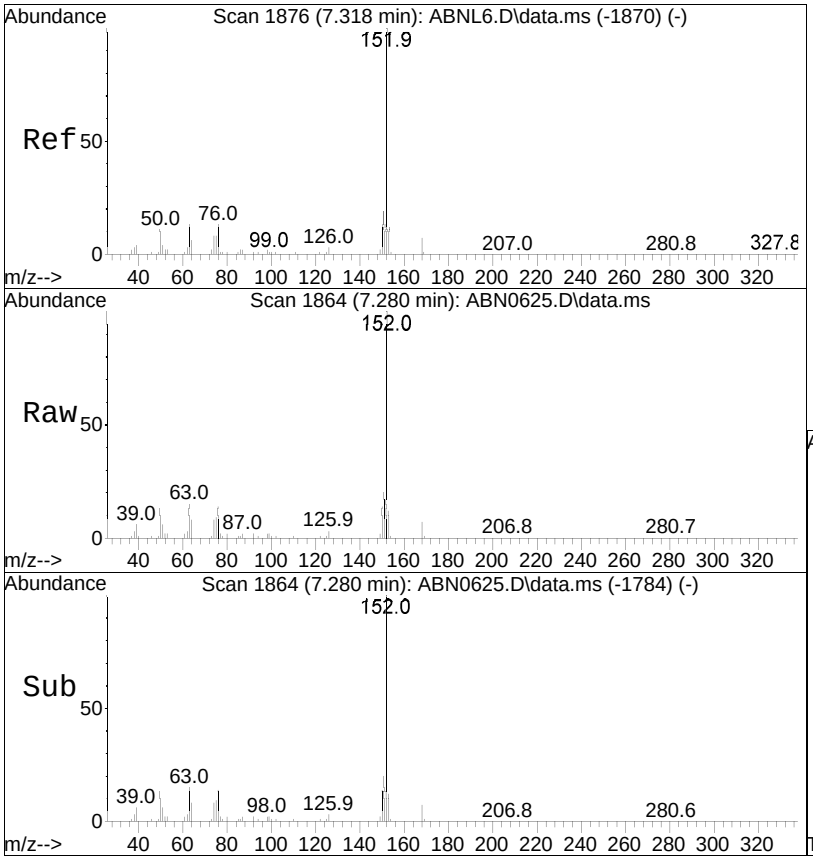


#53
2,6-Dinitrotoluene
Concen: 5.22 ug/ml
RT: 7.240 min Scan# 1851
Delta R.T. 0.000 min
Lab File: ABN0625.D
Acq: 25 Jun 2024 7:19 am

Tgt Ion:165 Resp: 25273

Ion	Ratio	Lower	Upper
165	100		
89	54.9	54.2	81.2
63	53.8	64.2	96.2#

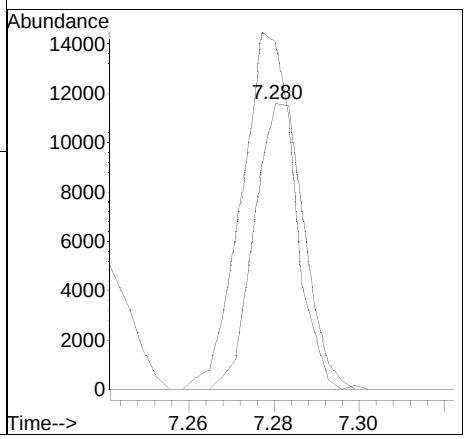


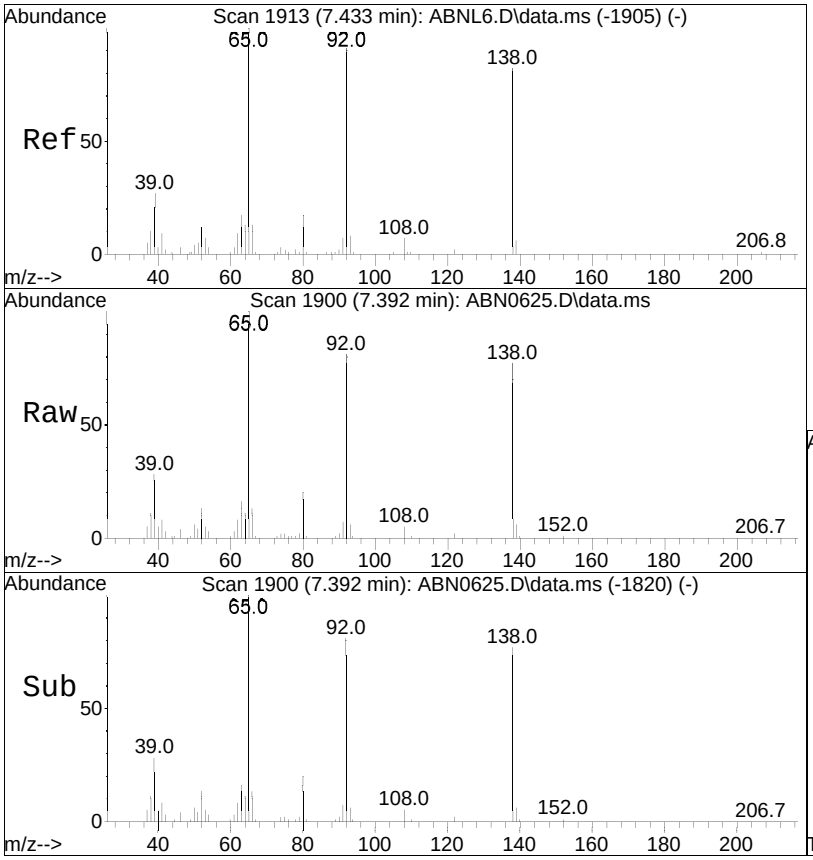


#54
1,2-Dinitrobenzene
Concen: 5.38 ug/ml
RT: 7.280 min Scan# 1864
Delta R.T. 0.000 min
Lab File: ABN0625.D
Acq: 25 Jun 2024 7:19 am

Tgt Ion:168 Resp: 9474

Ion	Ratio	Lower	Upper
168	100		
75	131.2	30.9	46.3#

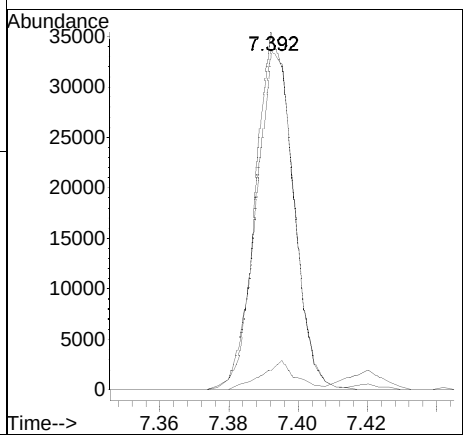


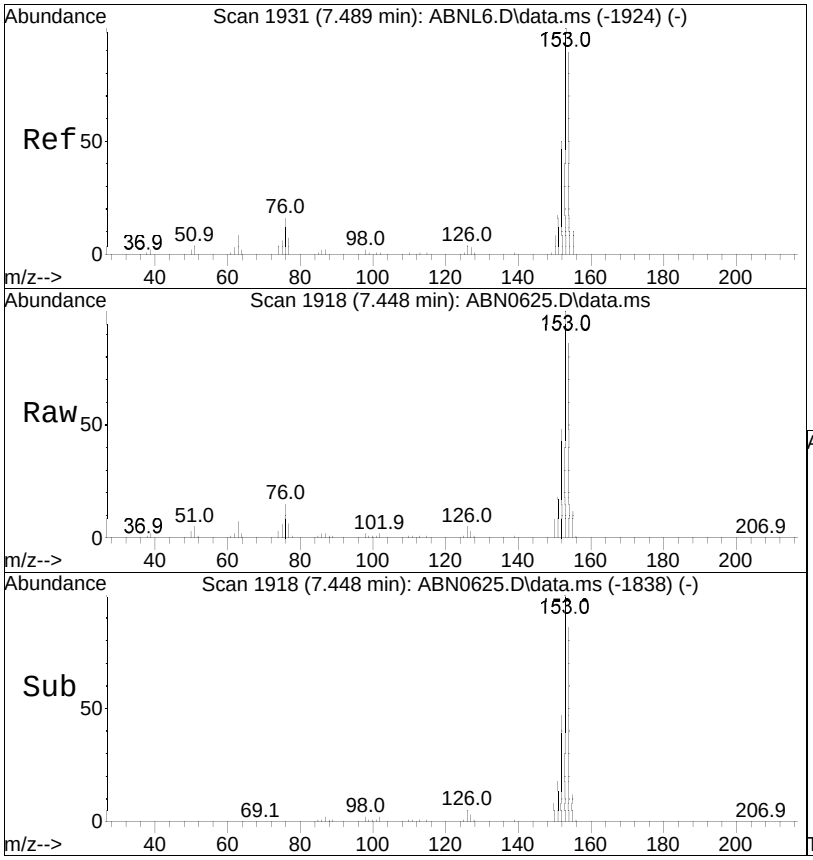


#64
3-Nitroaniline
Concen: 5.10 ug/ml
RT: 7.392 min Scan# 1900
Delta R.T. 0.000 min
Lab File: ABN0625.D
Acq: 25 Jun 2024 7:19 am

Tgt Ion:138 Resp: 25366

Ion	Ratio	Lower	Upper
138	100		
92	104.4	93.4	140.2
108	7.7	9.5	14.3#

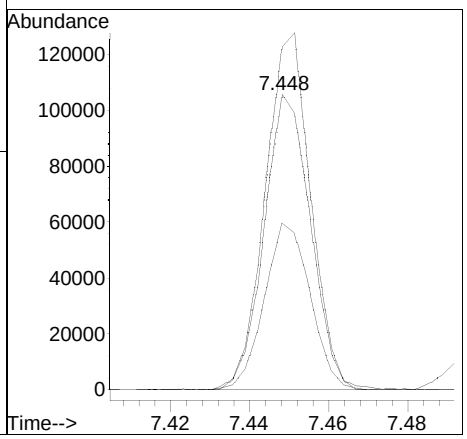


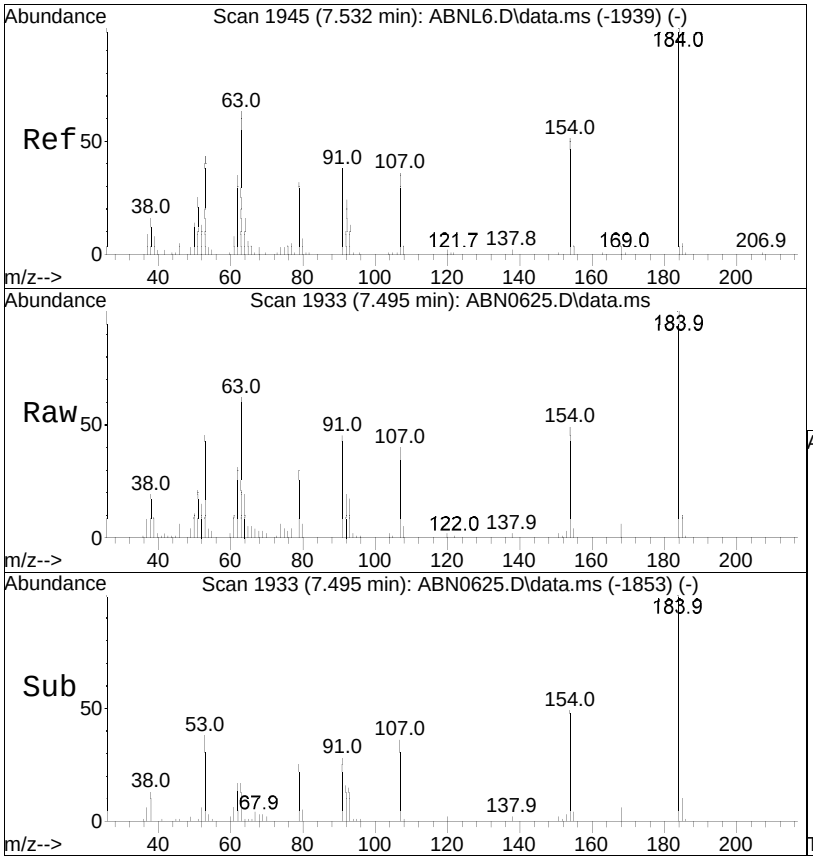


#65
Acenaphthene
Concen: 4.74 ug/ml
RT: 7.448 min Scan# 1918
Delta R.T. 0.000 min
Lab File: ABN0625.D
Acq: 25 Jun 2024 7:19 am

Tgt Ion:154 Resp: 85901

Ion	Ratio	Lower	Upper
154	100		
153	119.6	85.3	127.9
152	56.5	41.4	62.0

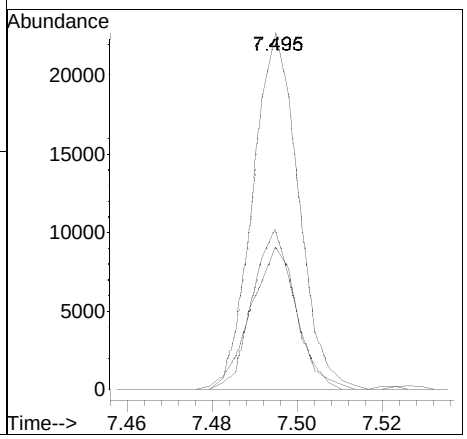


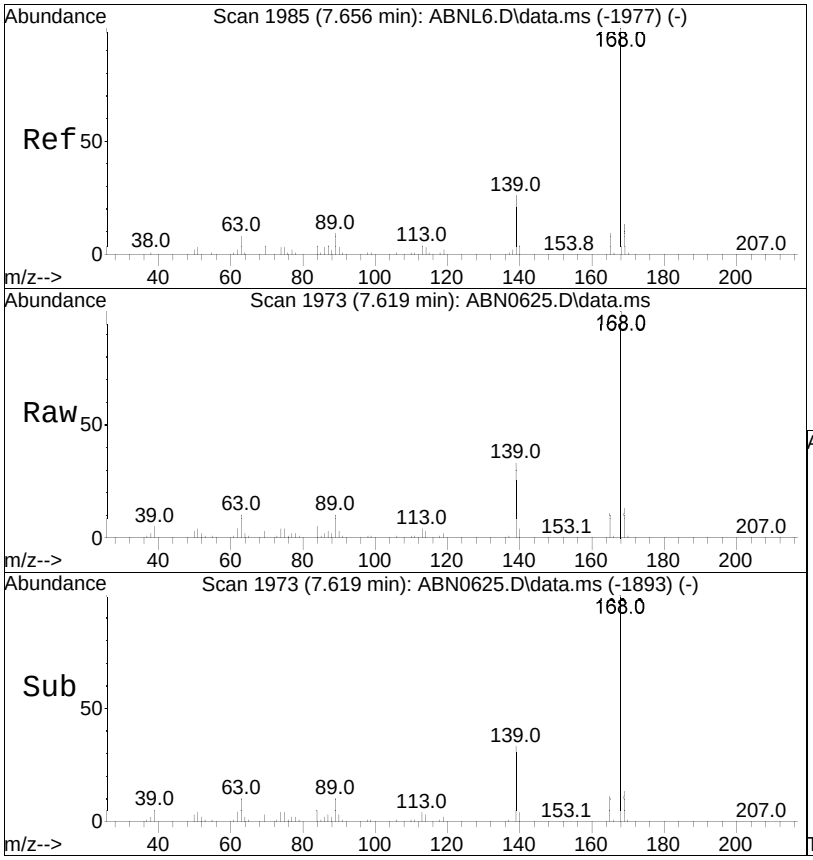


#66
2,4-Dinitrophenol
Concen: 4.70 ug/ml
RT: 7.495 min Scan# 1933
Delta R.T. 0.000 min
Lab File: ABN0625.D
Acq: 25 Jun 2024 7:19 am

Tgt Ion:184 Resp: 16835

Ion	Ratio	Lower	Upper
184	100		
107	39.2	37.7	56.5
91	43.6	46.3	69.5#

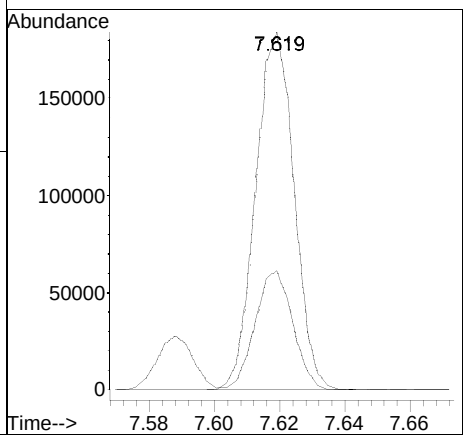


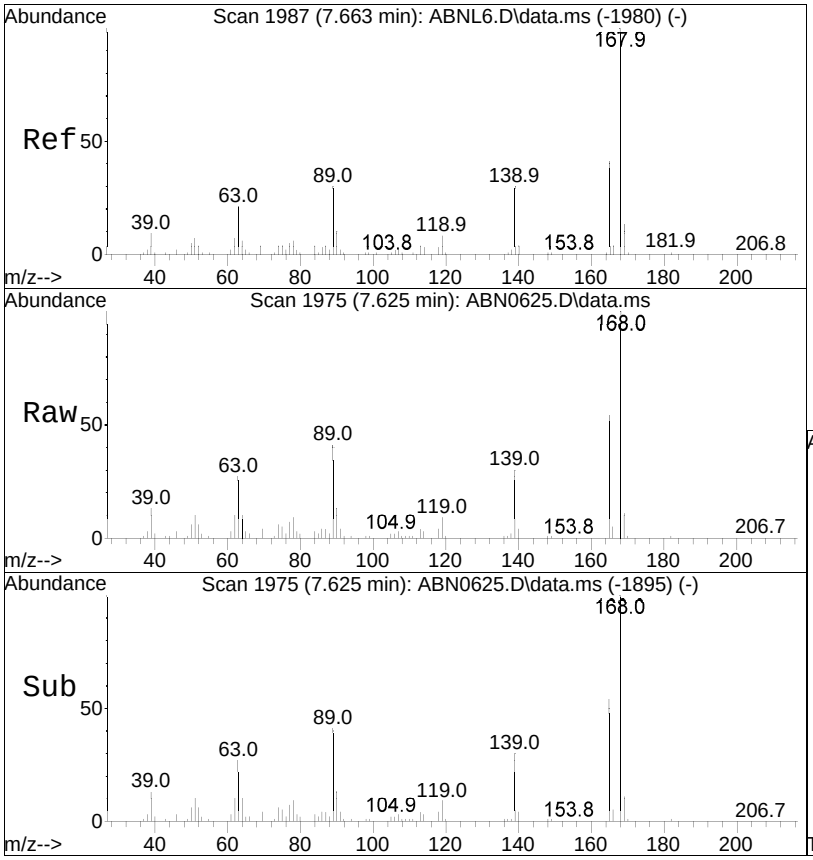


#67
Dibenzofuran
Concen: 4.70 ug/ml
RT: 7.619 min Scan# 1973
Delta R.T. 0.000 min
Lab File: ABN0625.D
Acq: 25 Jun 2024 7:19 am

Tgt Ion:168 Resp: 149776

Ion	Ratio	Lower	Upper
168	100		
139	32.8	31.4	47.2

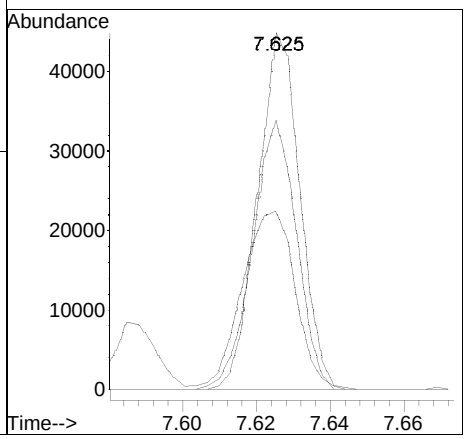


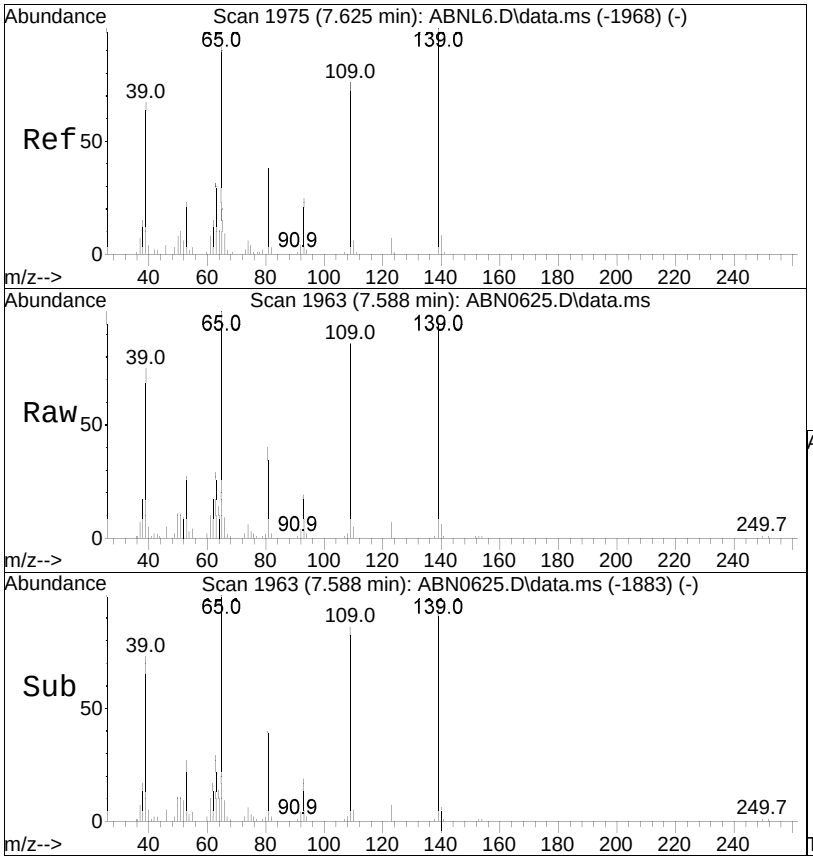


#68
2,4-Dinitrotoluene
Concen: 5.25 ug/ml
RT: 7.625 min Scan# 1975
Delta R.T. 0.000 min
Lab File: ABN0625.D
Acq: 25 Jun 2024 7:19 am

Tgt Ion:165 Resp: 35547

Ion	Ratio	Lower	Upper
165	100		
89	78.2	72.0	108.0
63	62.8	52.7	79.1

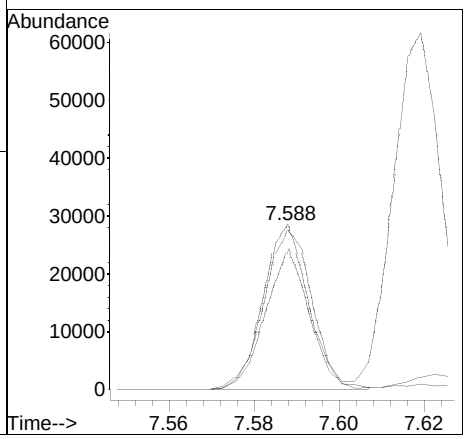


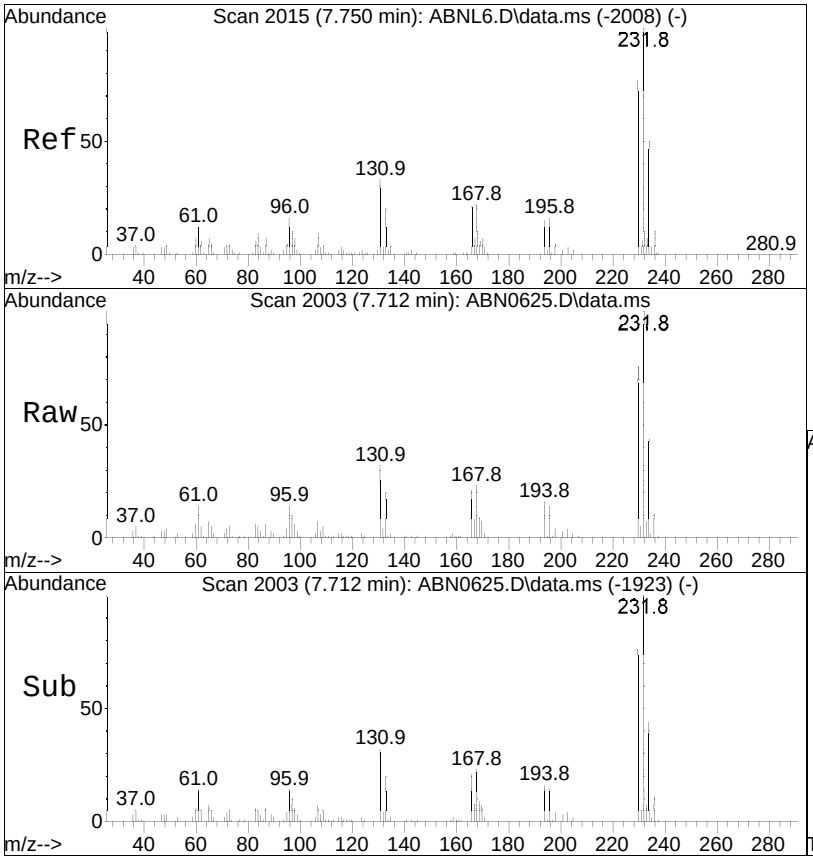


#69
4-Nitrophenol
Concen: 5.11 ug/ml
RT: 7.588 min Scan# 1963
Delta R.T. 0.000 min
Lab File: ABN0625.D
Acq: 25 Jun 2024 7:19 am

Tgt Ion: 65 Resp: 21276

Ion	Ratio	Lower	Upper
65	100		
109	81.5	47.4	71.2#
139	101.2	76.6	115.0

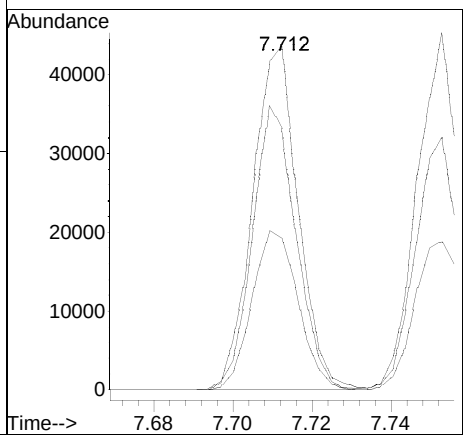


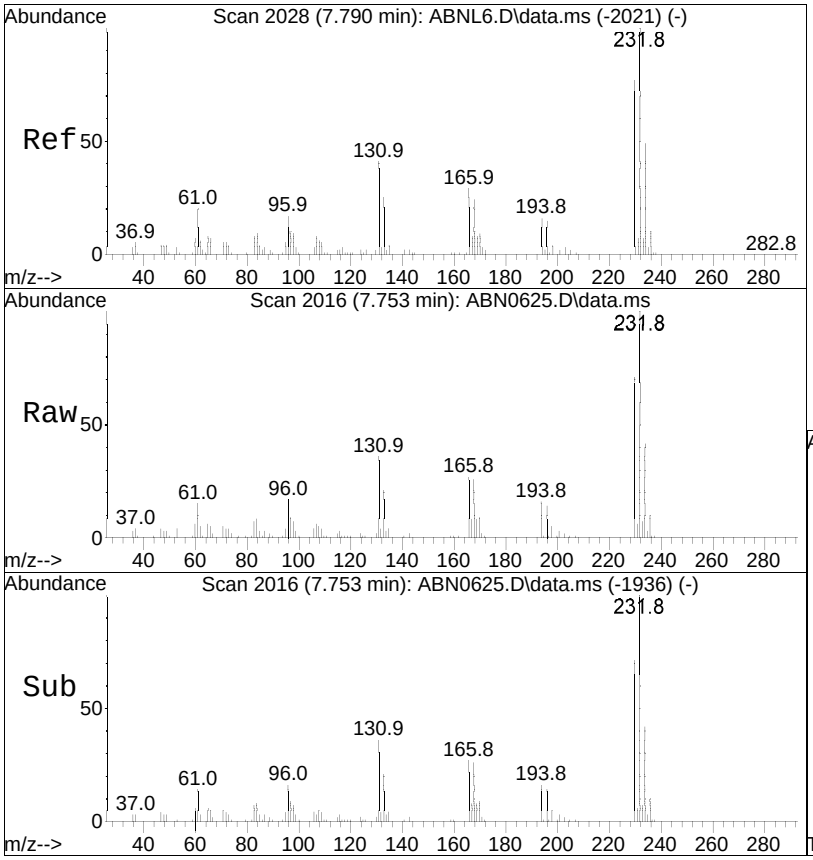


#70
2,3,5,6-Tetrachlorophenol
Concen: 4.88 ug/ml
RT: 7.712 min Scan# 2003
Delta R.T. 0.000 min
Lab File: ABN0625.D
Acq: 25 Jun 2024 7:19 am

Tgt Ion:232 Resp: 34959

Ion	Ratio	Lower	Upper
232	100		
230	79.4	64.2	96.4
234	46.9	38.1	57.1

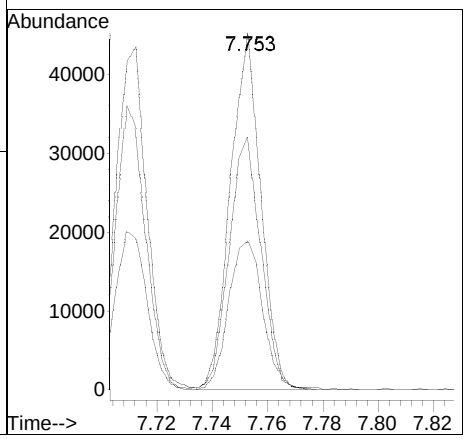


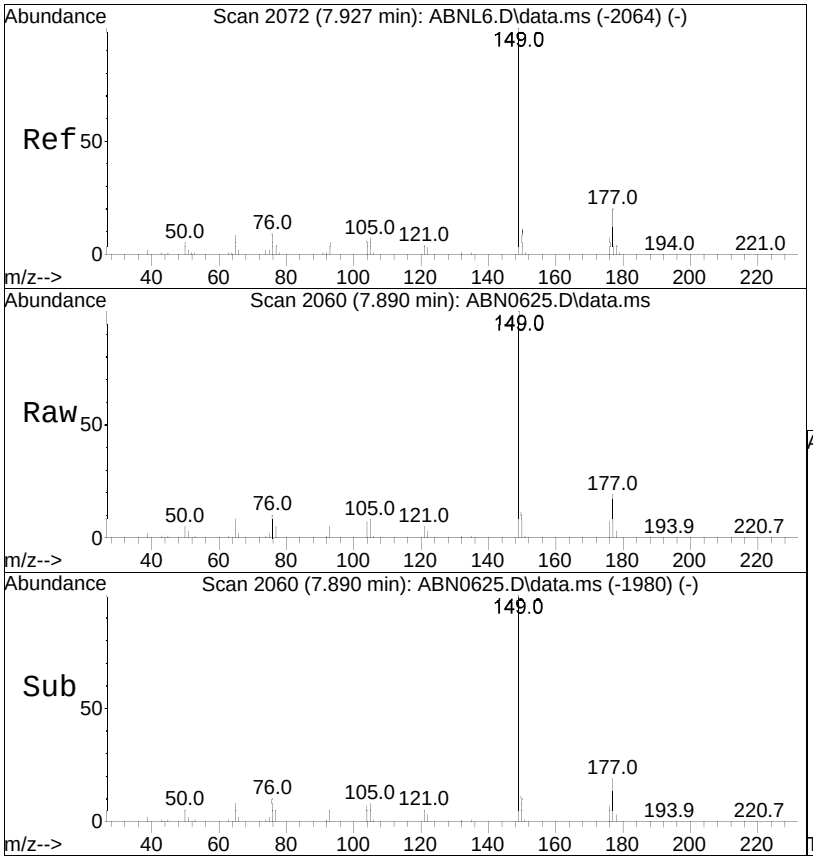


#71
2,3,4,6-Tetrachlorophenol
Concen: 5.20 ug/ml
RT: 7.753 min Scan# 2016
Delta R.T. 0.000 min
Lab File: ABN0625.D
Acq: 25 Jun 2024 7:19 am

Tgt Ion:232 Resp: 34936

Ion	Ratio	Lower	Upper
232	100		
230	73.6	61.8	92.8
234	46.7	36.2	54.2

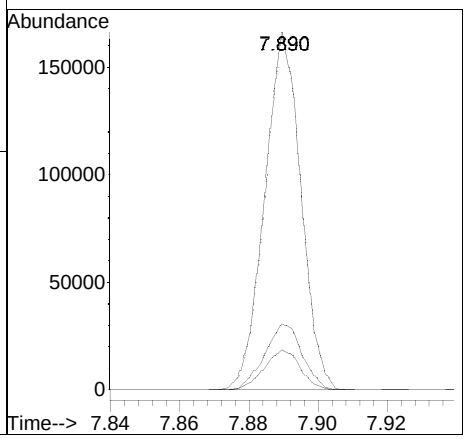


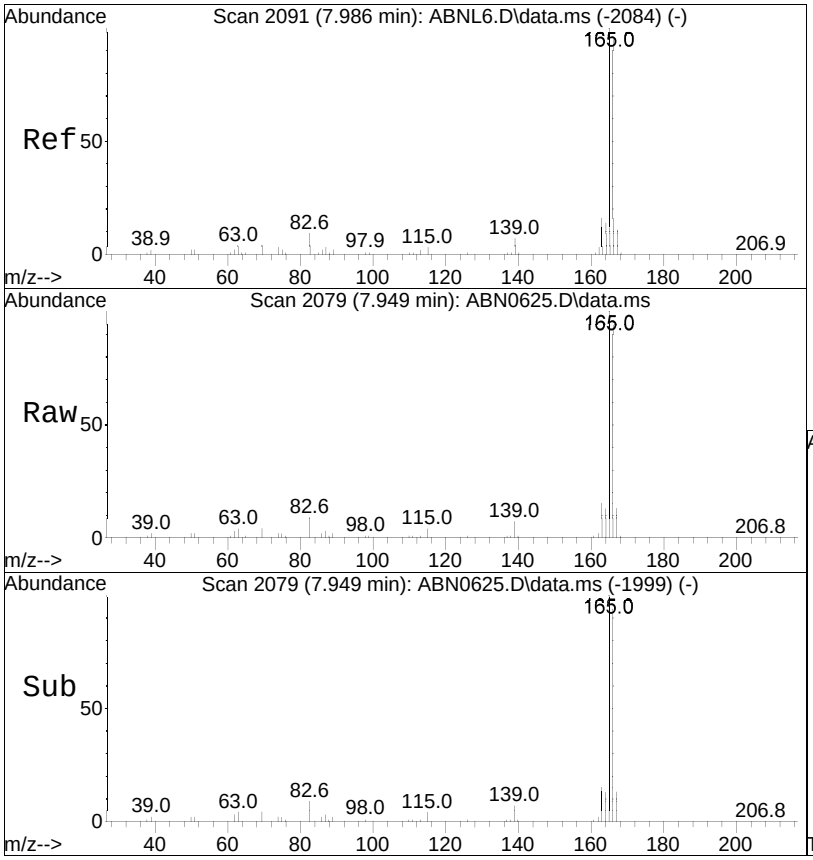


#72
Diethyl phthalate
Concen: 4.64 ug/ml
RT: 7.890 min Scan# 2060
Delta R.T. 0.000 min
Lab File: ABN0625.D
Acq: 25 Jun 2024 7:19 am

Tgt Ion:149 Resp: 119810

Ion	Ratio	Lower	Upper
149	100		
177	19.3	16.1	24.1
150	11.4	9.4	14.2

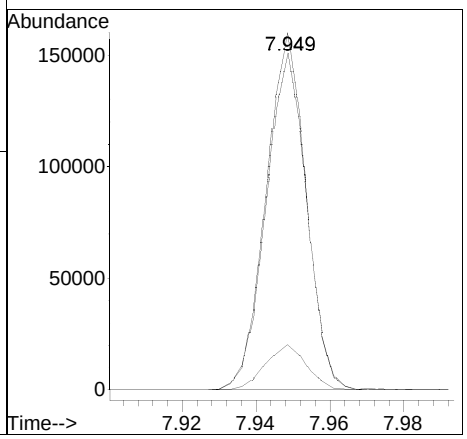


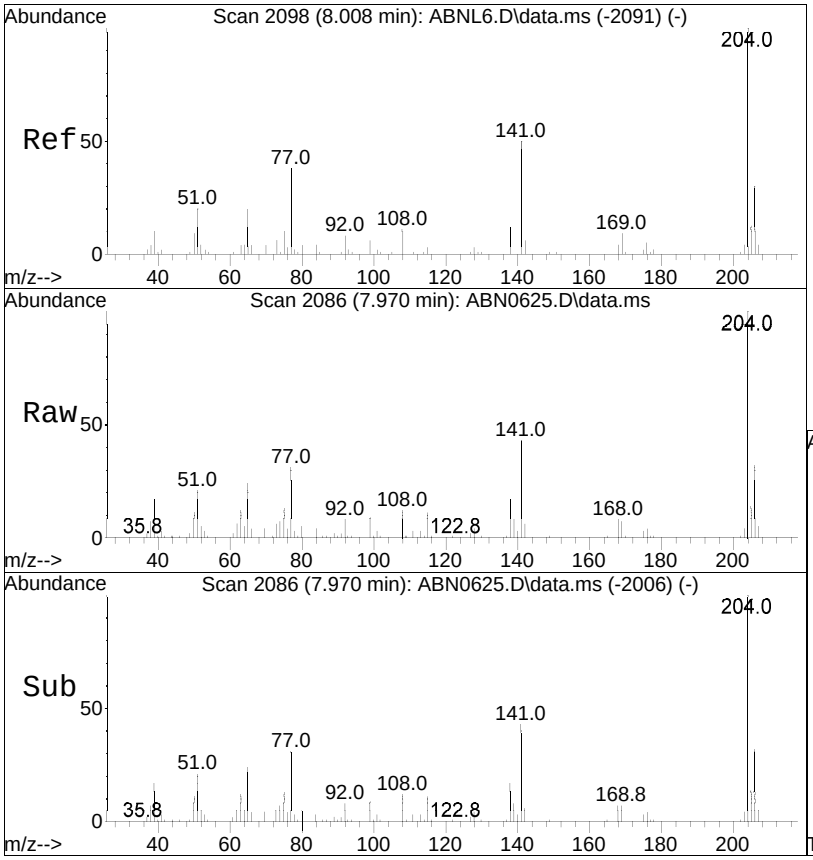


#73
Fluorene
Concen: 4.74 ug/ml
RT: 7.949 min Scan# 2079
Delta R.T. 0.000 min
Lab File: ABN0625.D
Acq: 25 Jun 2024 7:19 am

Tgt Ion:166 Resp: 115113

Ion	Ratio	Lower	Upper
166	100		
165	105.2	76.2	114.2
167	13.8	10.6	15.8

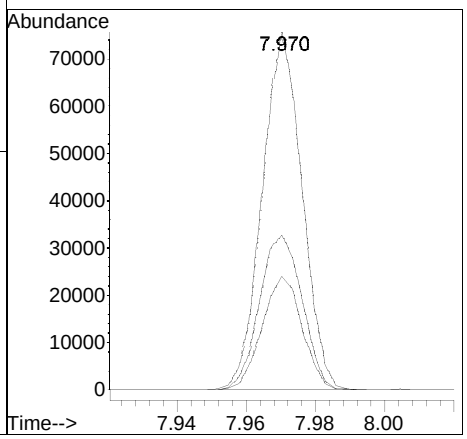


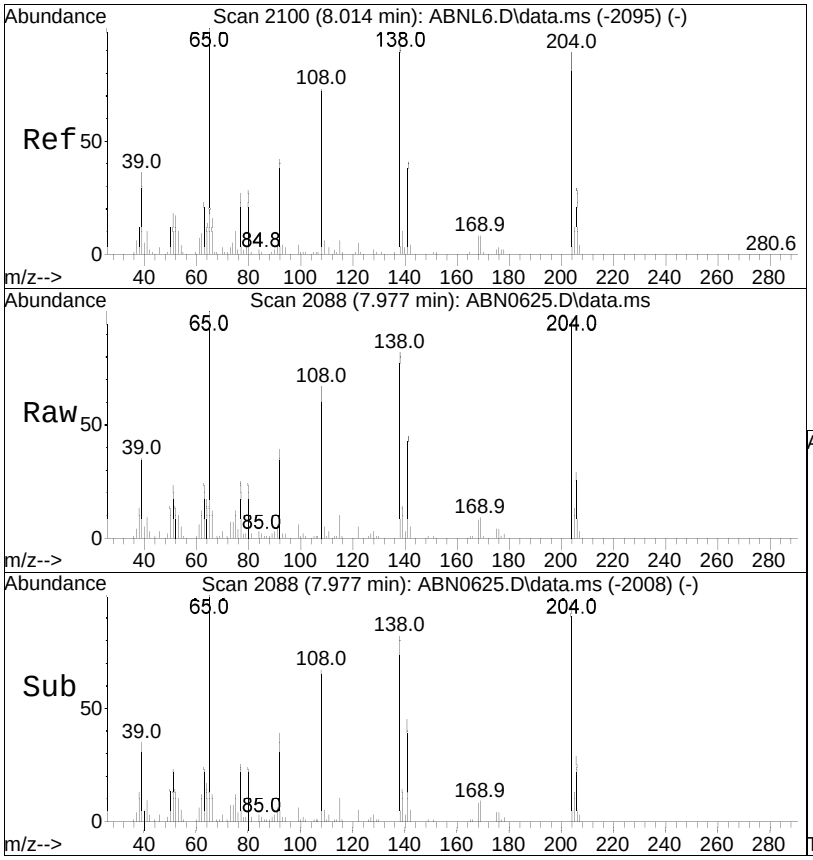


#74
4-Chlorophenyl phenyl ether
Concen: 4.85 ug/ml
RT: 7.970 min Scan# 2086
Delta R.T. 0.000 min
Lab File: ABN0625.D
Acq: 25 Jun 2024 7:19 am

Tgt Ion:204 Resp: 59933

Ion	Ratio	Lower	Upper
204	100		
206	32.2	25.8	38.6
141	46.6	53.6	80.4#

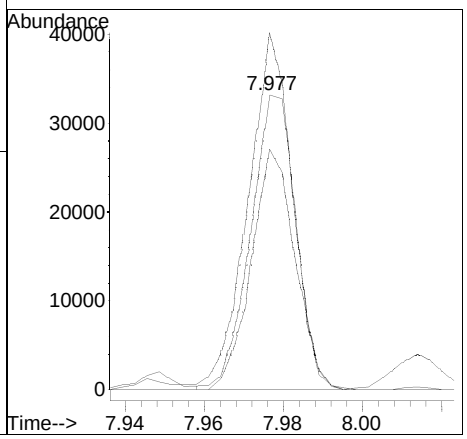


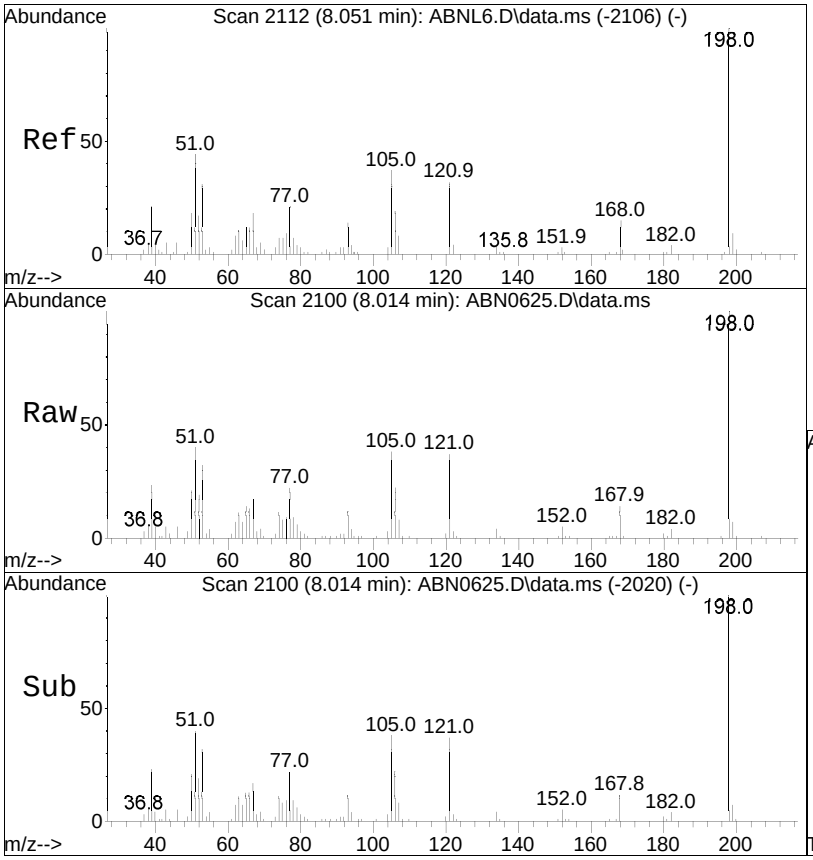


#75
4-Nitroaniline
Concen: 5.37 ug/ml
RT: 7.977 min Scan# 2088
Delta R.T. 0.000 min
Lab File: ABN0625.D
Acq: 25 Jun 2024 7:19 am

Tgt Ion:138 Resp: 26314

Ion	Ratio	Lower	Upper
138	100		
108	78.6	52.1	78.1#
65	119.2	115.0	172.6

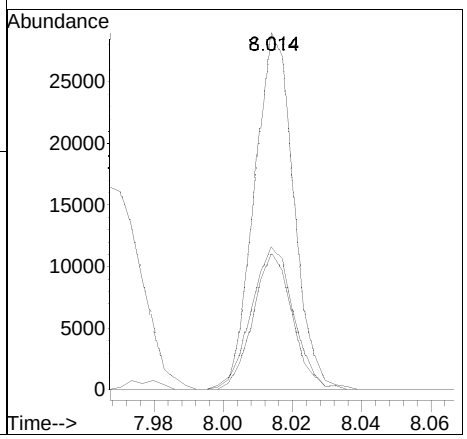


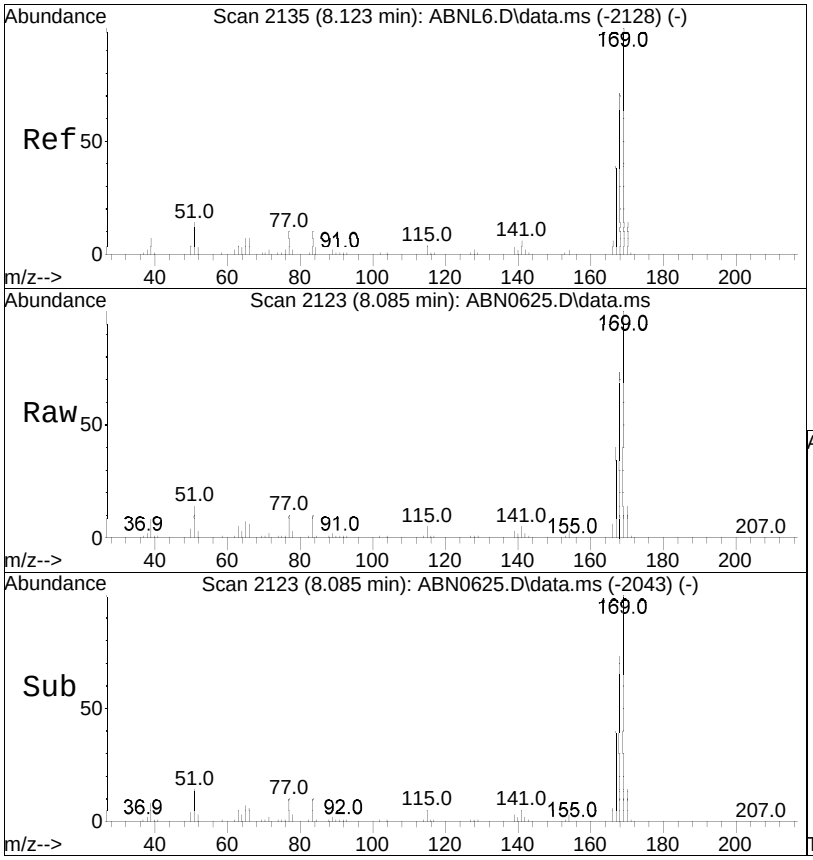


#76
4,6-Dinitro-o-cresol
Concen: 5.34 ug/ml
RT: 8.014 min Scan# 2100
Delta R.T. 0.000 min
Lab File: ABN0625.D
Acq: 25 Jun 2024 7:19 am

Tgt Ion:198 Resp: 22815

Ion	Ratio	Lower	Upper
198	100		
51	43.3	76.0	114.0#
105	38.2	45.6	68.4#

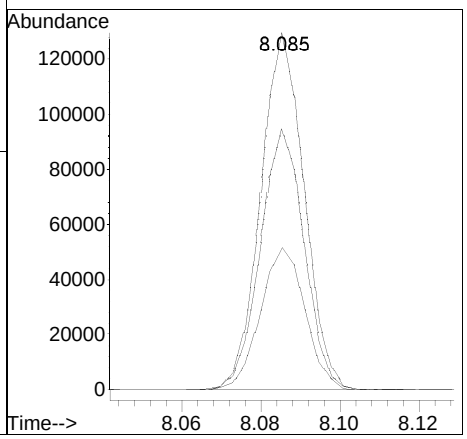


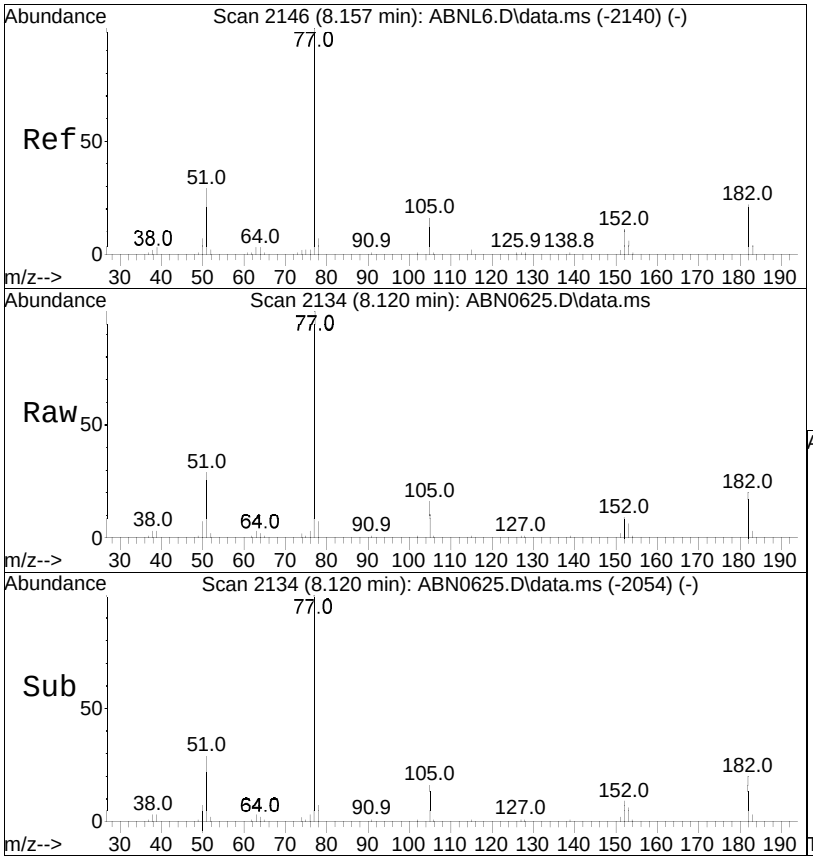


#77
NDPA/DPA
Concen: 4.73 ug/ml
RT: 8.085 min Scan# 2123
Delta R.T. 0.000 min
Lab File: ABN0625.D
Acq: 25 Jun 2024 7:19 am

Tgt Ion:169 Resp: 98568

Ion	Ratio	Lower	Upper
169	100		
168	73.9	54.0	81.0
167	41.0	28.6	42.8

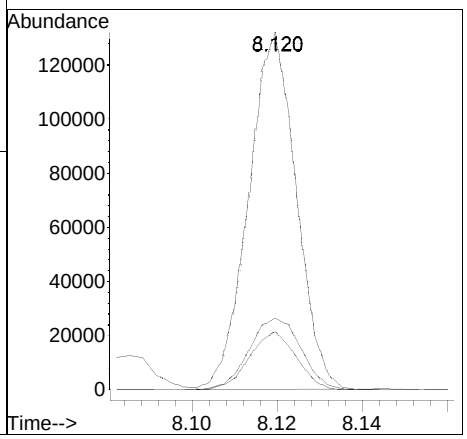


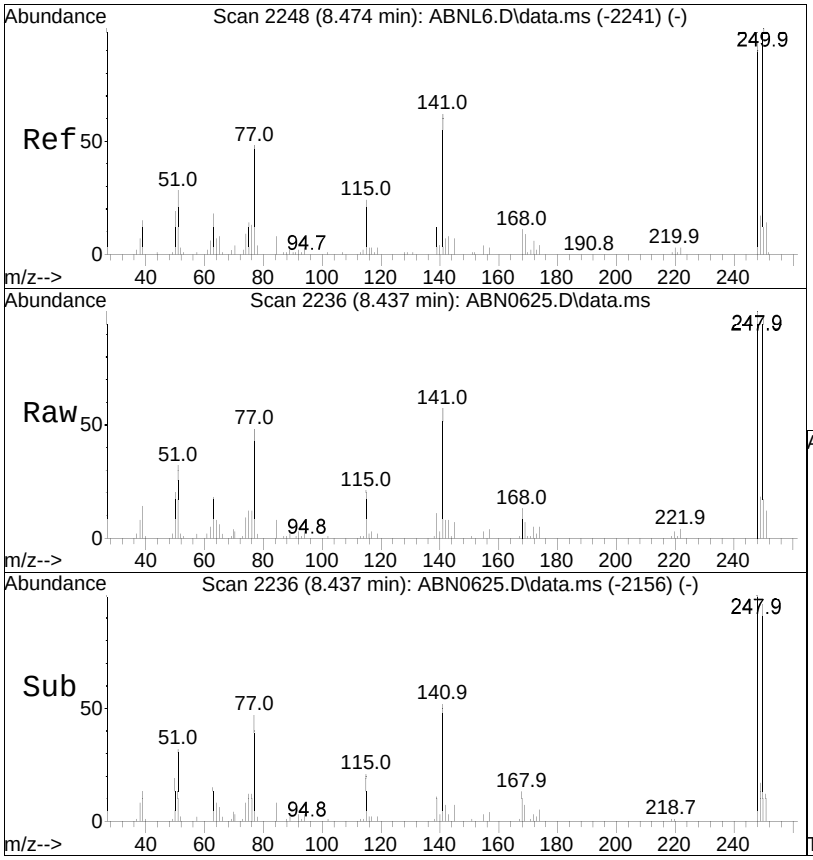


#78
Azobenzene
Concen: 4.84 ug/ml
RT: 8.120 min Scan# 2134
Delta R.T. 0.000 min
Lab File: ABN0625.D
Acq: 25 Jun 2024 7:19 am

Tgt Ion: 77 Resp: 101482

Ion	Ratio	Lower	Upper
77	100		
182	22.1	17.4	26.2
105	16.2	15.4	23.2

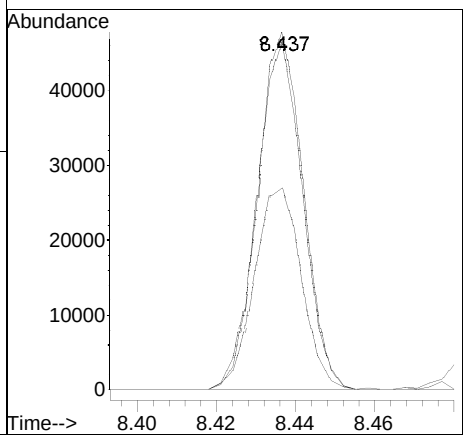


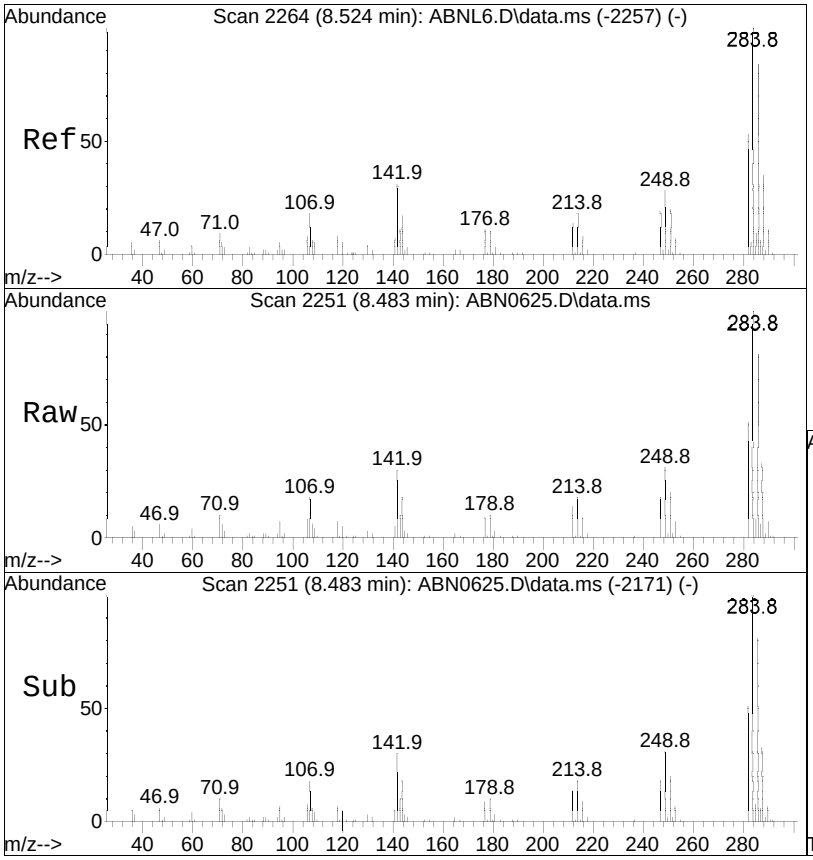


#80
4-Bromophenyl phenyl ether
Concen: 4.64 ug/ml
RT: 8.437 min Scan# 2236
Delta R.T. 0.000 min
Lab File: ABN0625.D
Acq: 25 Jun 2024 7:19 am

Tgt Ion:248 Resp: 38157

Ion	Ratio	Lower	Upper
248	100		
141	58.2	76.6	114.8#
250	96.2	77.3	115.9

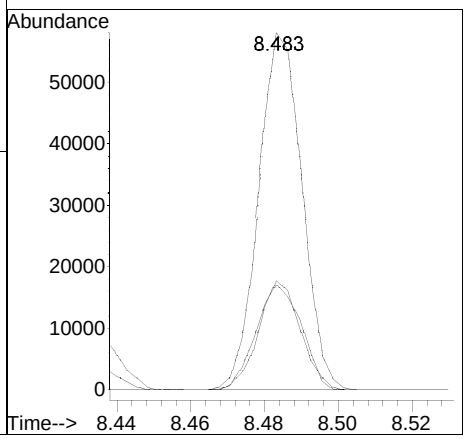


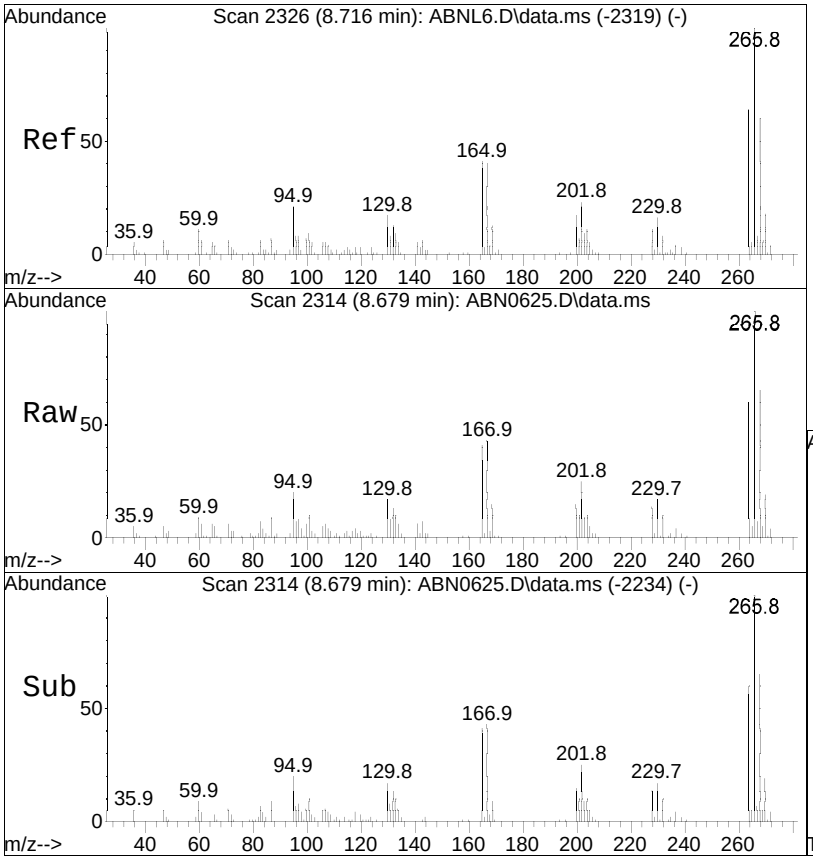


#81
Hexachlorobenzene
Concen: 4.63 ug/ml
RT: 8.483 min Scan# 2251
Delta R.T. 0.000 min
Lab File: ABN0625.D
Acq: 25 Jun 2024 7:19 am

Tgt Ion:284 Resp: 47310

Ion	Ratio	Lower	Upper
284	100		
142	30.8	41.9	62.9#
249	29.6	24.1	36.1

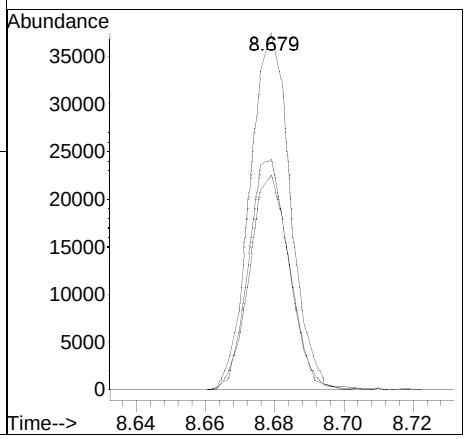


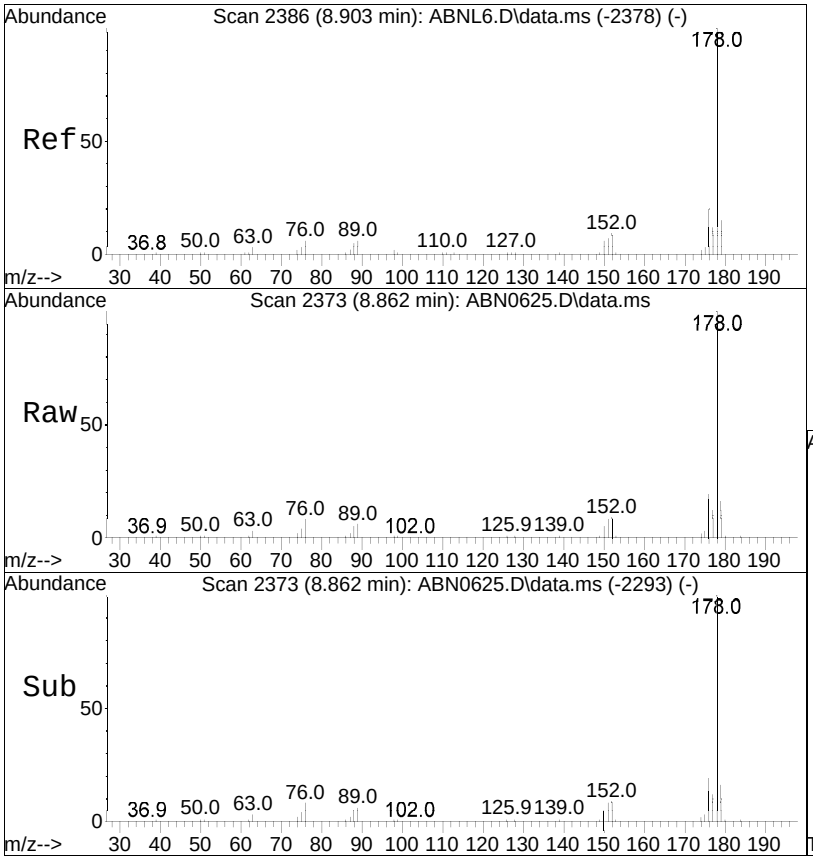


#82
Pentachlorophenol
Concen: 4.95 ug/ml
RT: 8.679 min Scan# 2314
Delta R.T. 0.000 min
Lab File: ABN0625.D
Acq: 25 Jun 2024 7:19 am

Tgt Ion:266 Resp: 30596

Ion	Ratio	Lower	Upper
266	100		
264	60.7	49.7	74.5
268	64.1	50.5	75.7

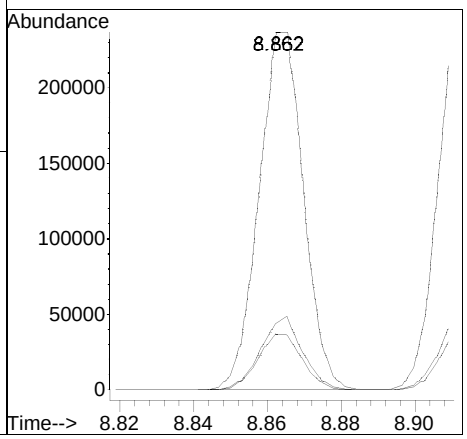


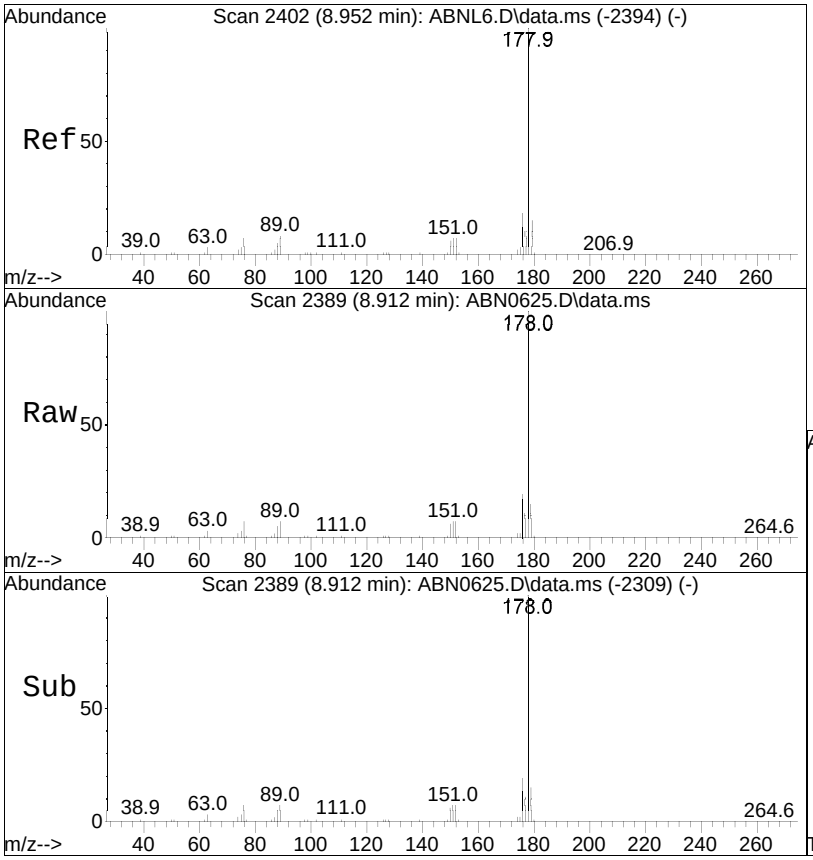


#89
Phenanthrene
Concen: 4.67 ug/ml
RT: 8.862 min Scan# 2373
Delta R.T. 0.000 min
Lab File: ABN0625.D
Acq: 25 Jun 2024 7:19 am

Tgt Ion:178 Resp: 198034

Ion	Ratio	Lower	Upper
178	100		
179	15.5	12.2	18.2
176	19.1	15.4	23.2

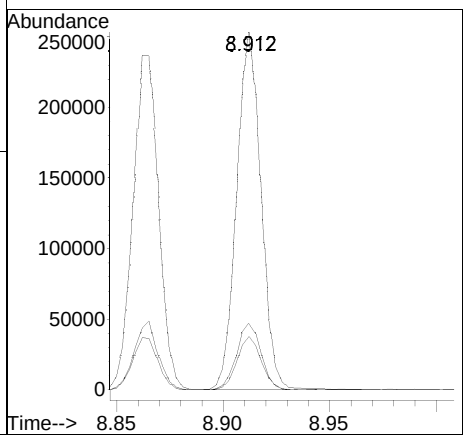


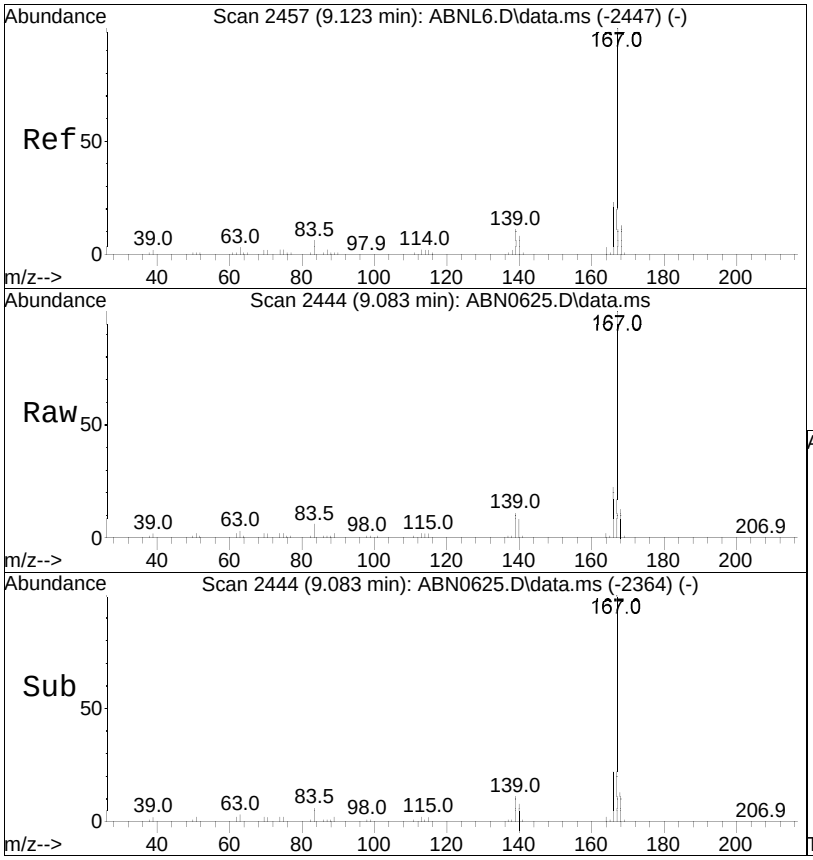


#90
Anthracene
Concen: 4.91 ug/ml
RT: 8.912 min Scan# 2389
Delta R.T. 0.000 min
Lab File: ABN0625.D
Acq: 25 Jun 2024 7:19 am

Tgt Ion:178 Resp: 200871

Ion	Ratio	Lower	Upper
178	100		
179	14.8	12.0	18.0
176	18.7	14.6	22.0

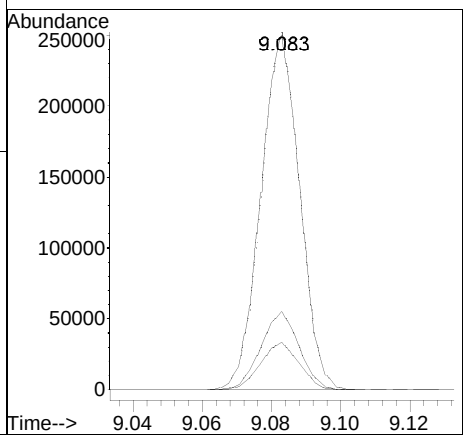


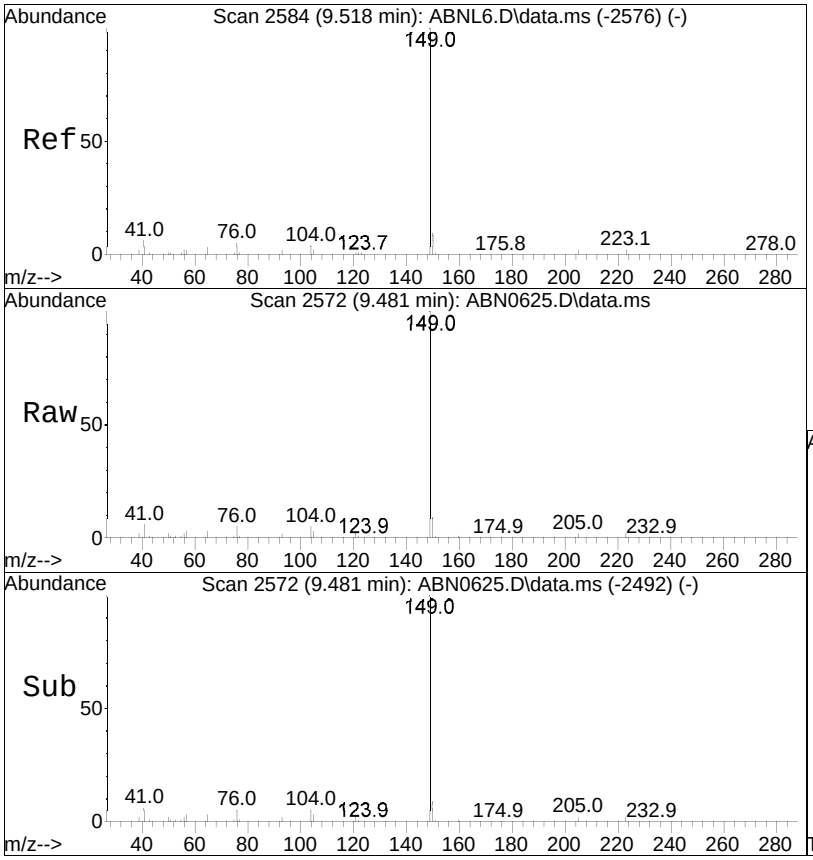


#91
Carbazole
Concen: 4.99 ug/ml
RT: 9.083 min Scan# 2444
Delta R.T. 0.000 min
Lab File: ABN0625.D
Acq: 25 Jun 2024 7:19 am

Tgt Ion:167 Resp: 193170

Ion	Ratio	Lower	Upper
167	100		
168	13.5	10.6	15.8
166	21.9	17.4	26.0

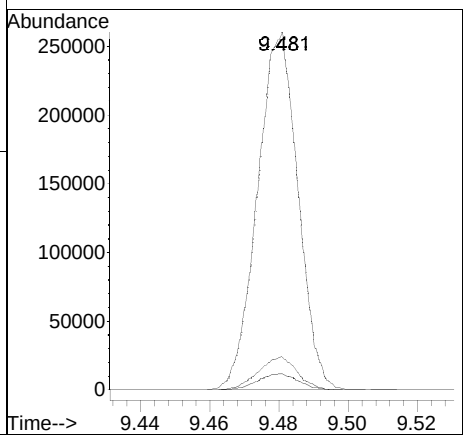


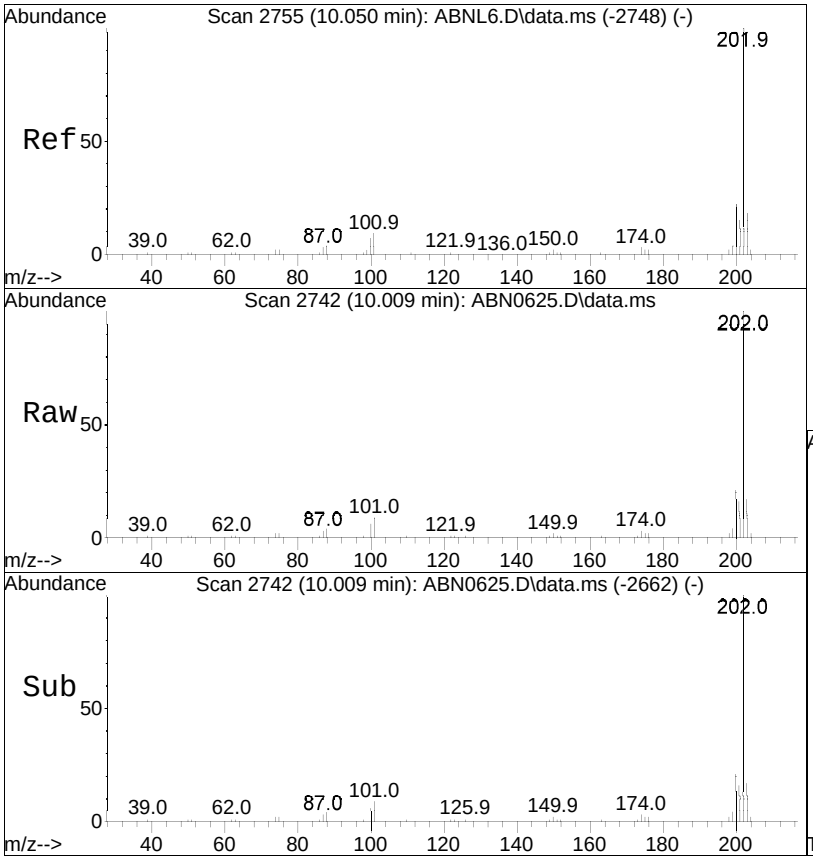


#92
Di-n-butylphthalate
Concen: 4.70 ug/ml
RT: 9.481 min Scan# 2572
Delta R.T. 0.000 min
Lab File: ABN0625.D
Acq: 25 Jun 2024 7:19 am

Tgt Ion:149 Resp: 208970

Ion	Ratio	Lower	Upper
149	100		
150	9.0	7.0	10.6
104	4.7	4.5	6.7

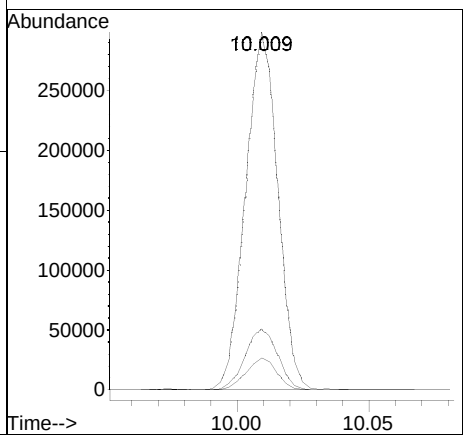


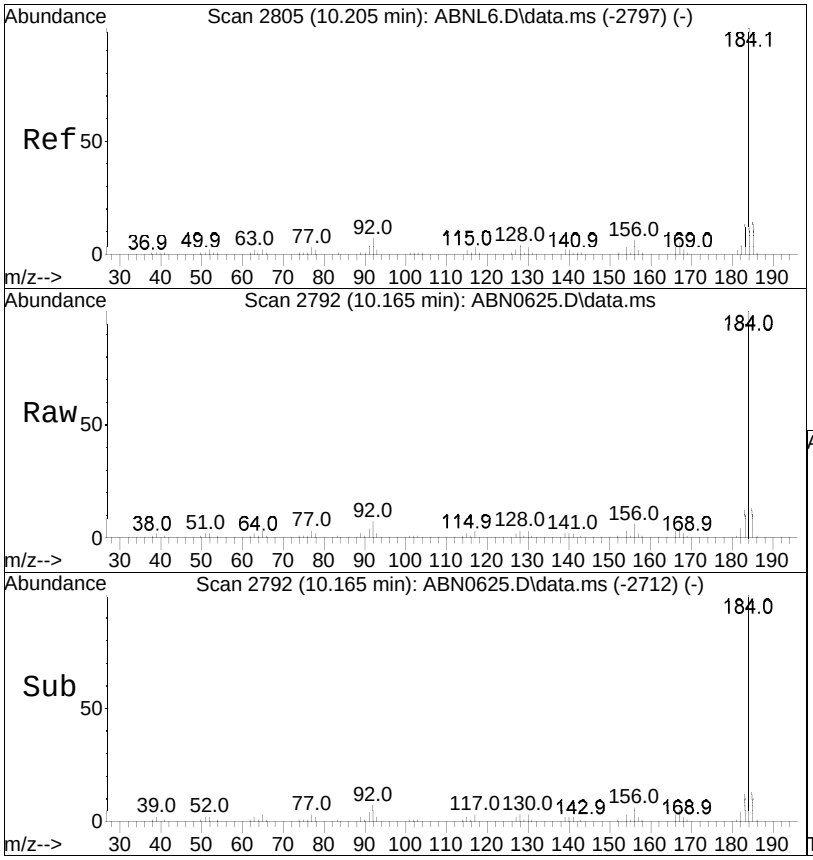


#93
Fluoranthene
Concen: 4.87 ug/ml
RT: 10.009 min Scan# 2742
Delta R.T. 0.000 min
Lab File: ABN0625.D
Acq: 25 Jun 2024 7:19 am

Tgt Ion:202 Resp: 251625

Ion	Ratio	Lower	Upper
202	100		
101	8.5	13.5	20.3#
203	17.3	13.6	20.4

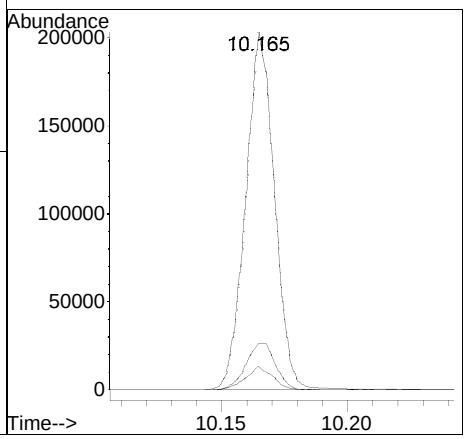


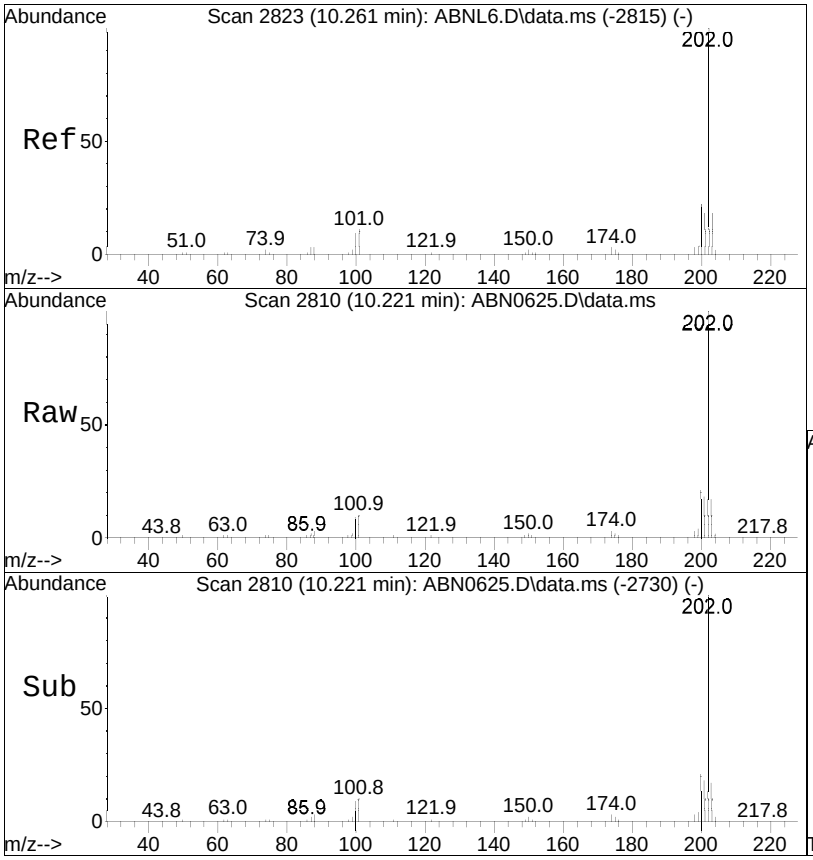


#94
Benzidine
Concen: 5.53 ug/ml
RT: 10.165 min Scan# 2792
Delta R.T. 0.000 min
Lab File: ABN0625.D
Acq: 25 Jun 2024 7:19 am

Tgt Ion:184 Resp: 159151

Ion	Ratio	Lower	Upper
184	100		
92	6.2	9.1	13.7#
185	13.5	11.1	16.7

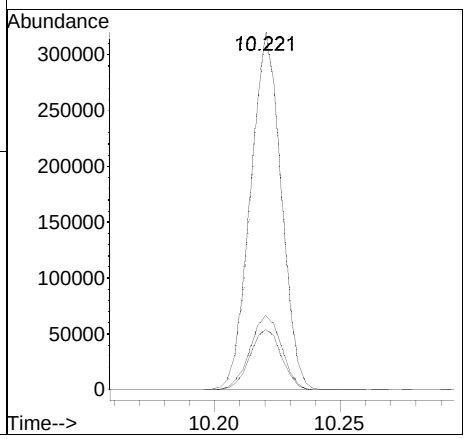


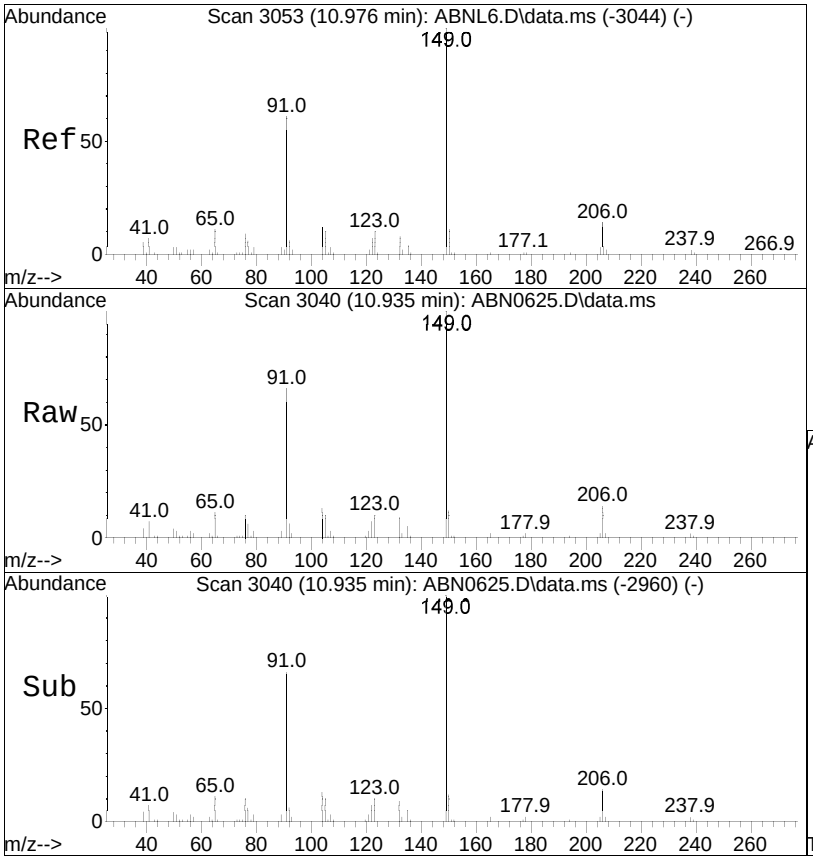


#95
Pyrene
Concen: 5.05 ug/ml
RT: 10.221 min Scan# 2810
Delta R.T. 0.000 min
Lab File: ABN0625.D
Acq: 25 Jun 2024 7:19 am

Tgt Ion:202 Resp: 268694

Ion	Ratio	Lower	Upper
202	100		
200	21.5	16.7	25.1
203	17.5	14.2	21.4

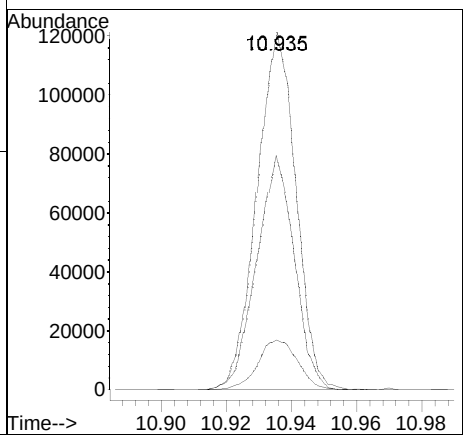


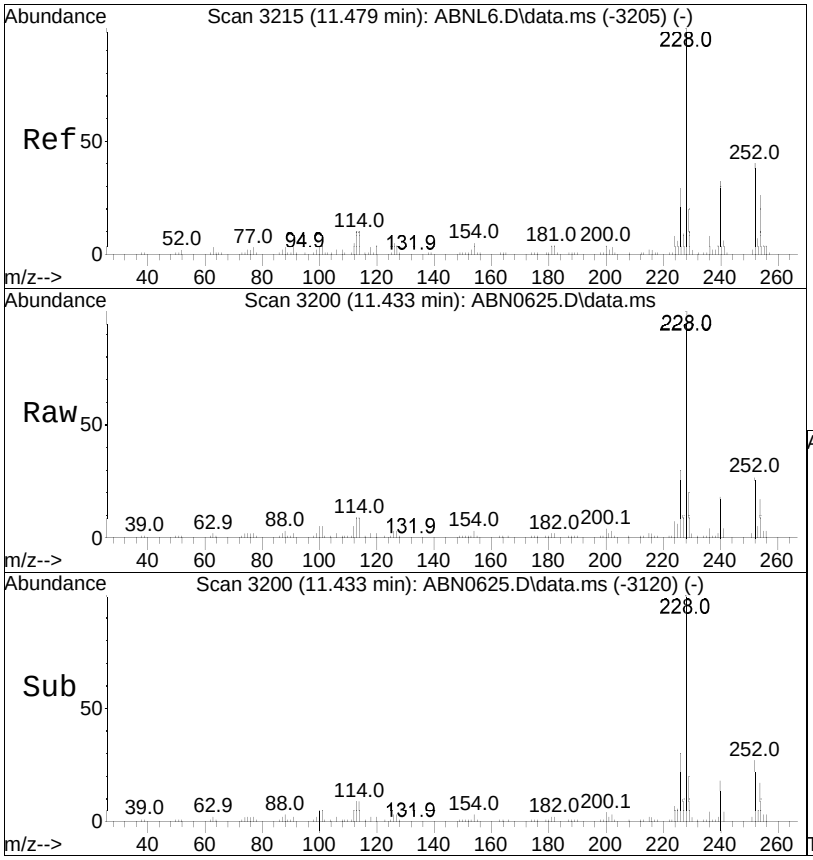


#97
Butyl benzyl phthalate
Concen: 5.00 ug/ml
RT: 10.935 min Scan# 3040
Delta R.T. 0.000 min
Lab File: ABN0625.D
Acq: 25 Jun 2024 7:19 am

Tgt Ion:149 Resp: 99870

Ion	Ratio	Lower	Upper
149	100		
91	63.7	63.3	94.9
206	14.4	13.9	20.9

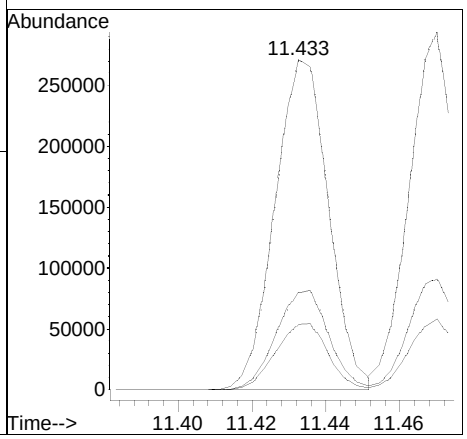


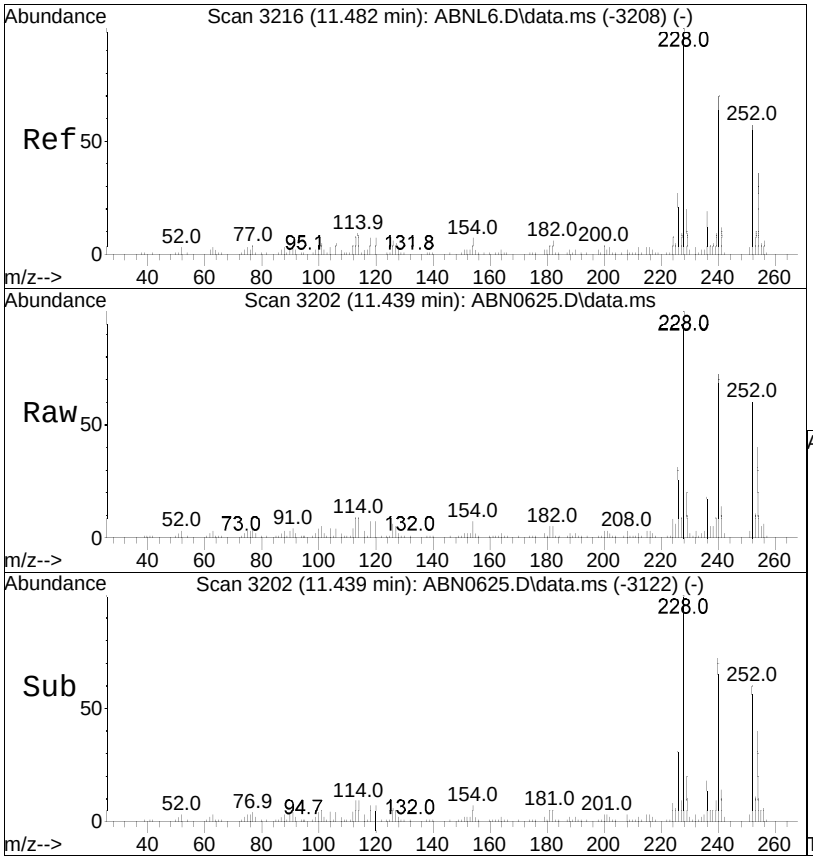


#105
Benzo(a)anthracene
Concen: 4.84 ug/ml
RT: 11.433 min Scan# 3200
Delta R.T. 0.000 min
Lab File: ABN0625.D
Acq: 25 Jun 2024 7:19 am

Tgt Ion:228 Resp: 272627

Ion	Ratio	Lower	Upper
228	100		
226	29.7	22.2	33.4
229	19.9	15.6	23.4

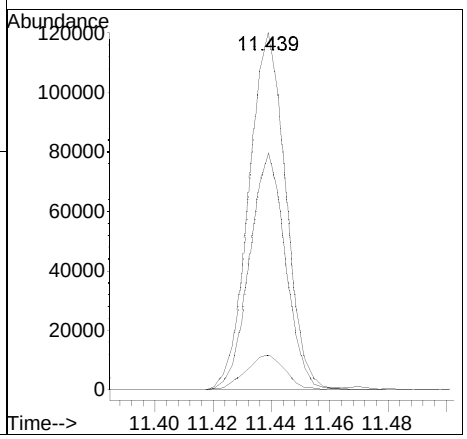


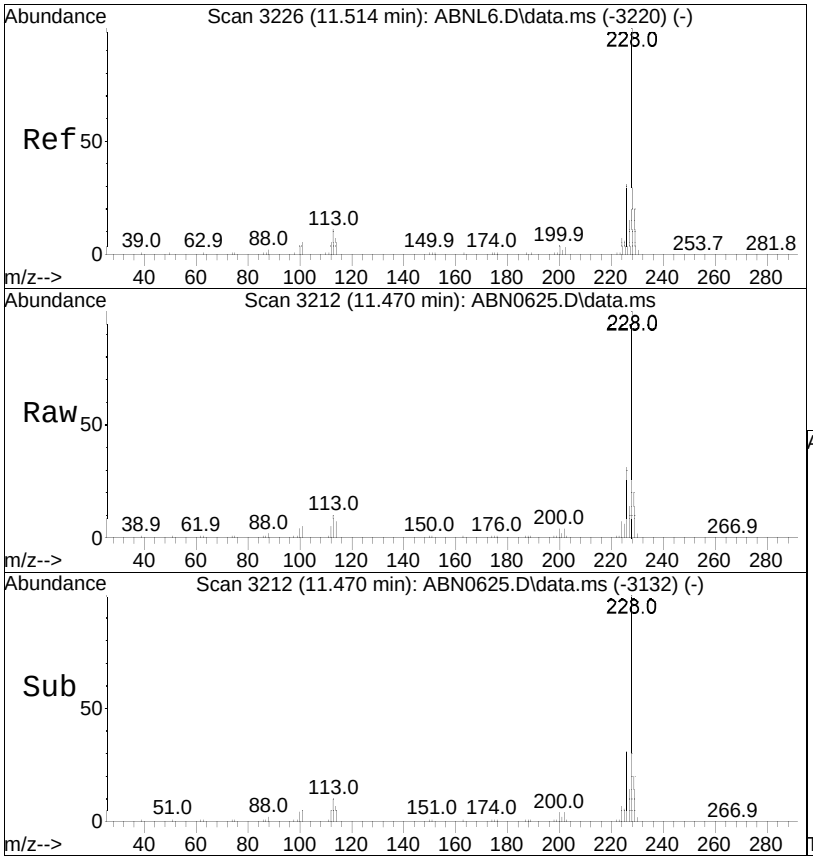


#106
3,3'-Dichlorobenzidine
Concen: 5.04 ug/ml
RT: 11.439 min Scan# 3202
Delta R.T. 0.000 min
Lab File: ABN0625.D
Acq: 25 Jun 2024 7:19 am

Tgt Ion:252 Resp: 105390

Ion	Ratio	Lower	Upper
252	100		
126	10.3	14.5	21.7#
254	64.6	51.2	76.8

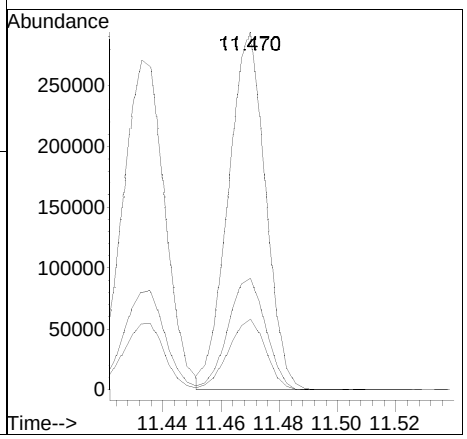


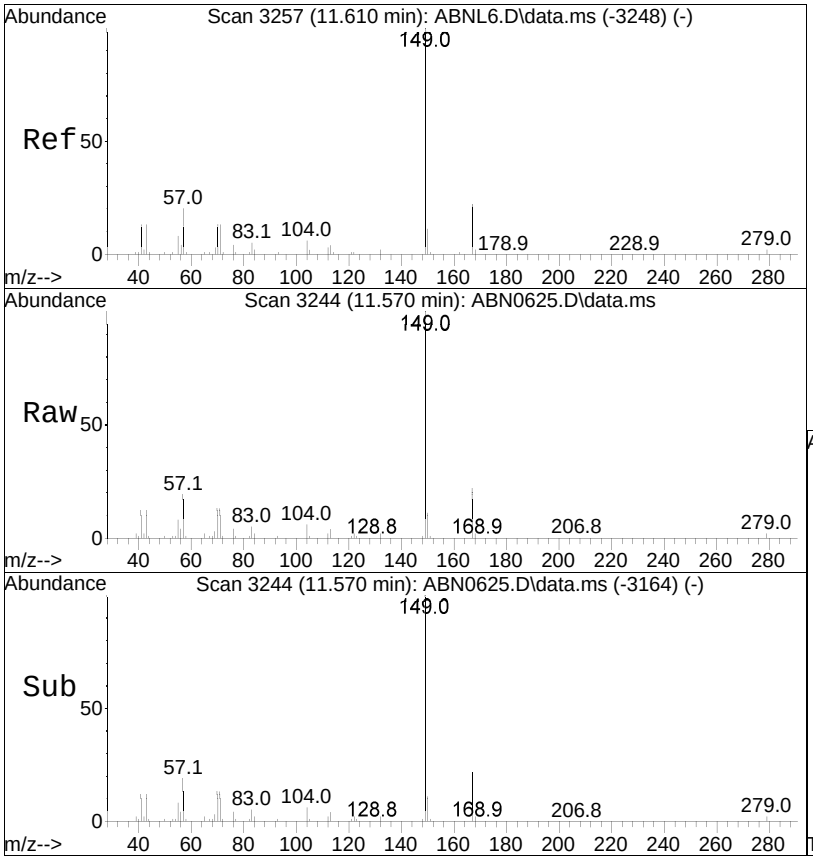


#107
Chrysene
Concen: 4.88 ug/ml
RT: 11.470 min Scan# 3212
Delta R.T. 0.000 min
Lab File: ABN0625.D
Acq: 25 Jun 2024 7:19 am

Tgt Ion:228 Resp: 260774

Ion	Ratio	Lower	Upper
228	100		
226	31.7	24.0	36.0
229	19.7	15.8	23.8

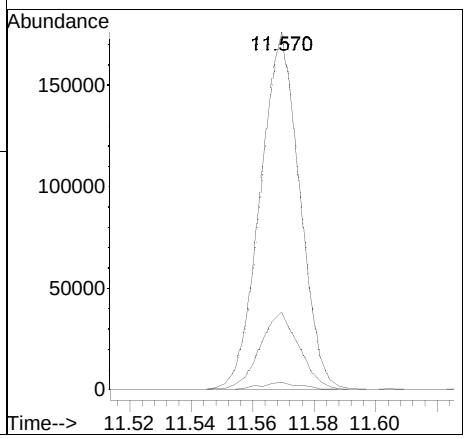


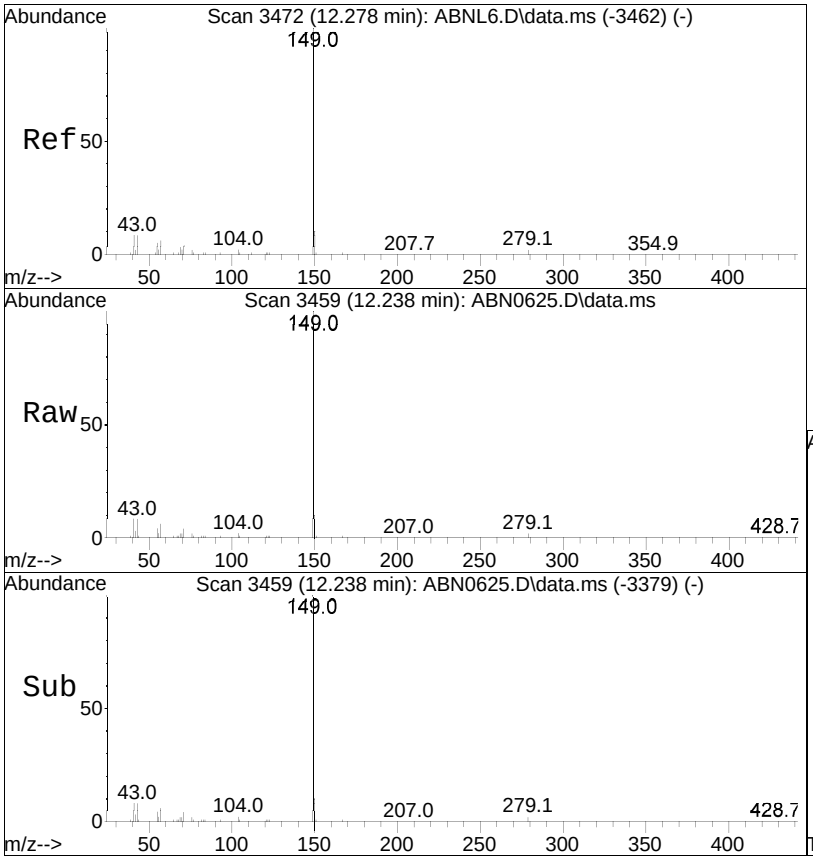


#108
Bis(2-ethylhexyl)phthalate
Concen: 4.90 ug/ml
RT: 11.570 min Scan# 3244
Delta R.T. 0.000 min
Lab File: ABN0625.D
Acq: 25 Jun 2024 7:19 am

Tgt Ion:149 Resp: 155291

Ion	Ratio	Lower	Upper
149	100		
167	21.6	22.1	33.1#
279	1.8	3.0	4.4#

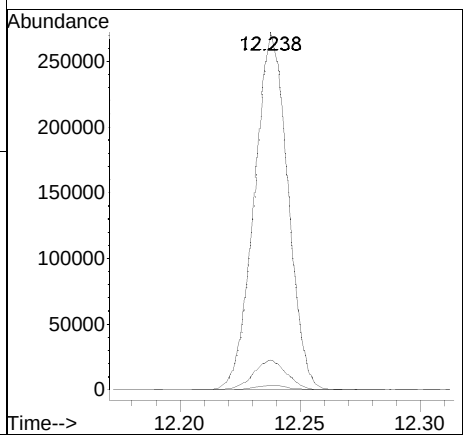


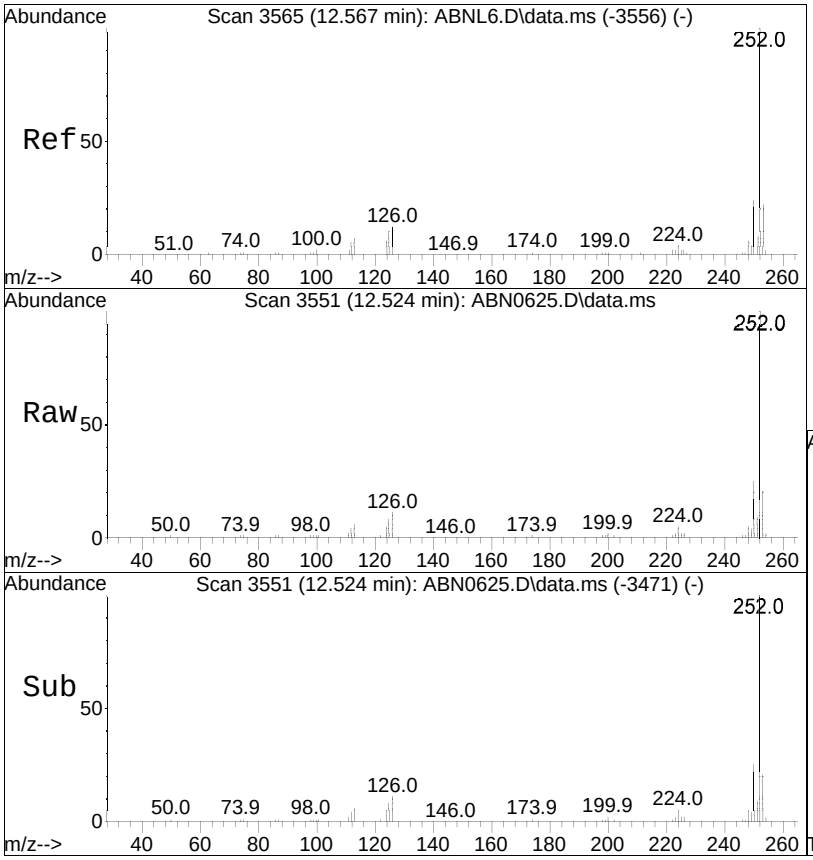


#109
Di-n-octylphthalate
Concen: 4.93 ug/ml
RT: 12.238 min Scan# 3459
Delta R.T. 0.000 min
Lab File: ABN0625.D
Acq: 25 Jun 2024 7:19 am

Tgt Ion:149 Resp: 260433

Ion	Ratio	Lower	Upper
149	100		
43	8.4	18.8	28.2#
167	1.3	1.3	1.9#

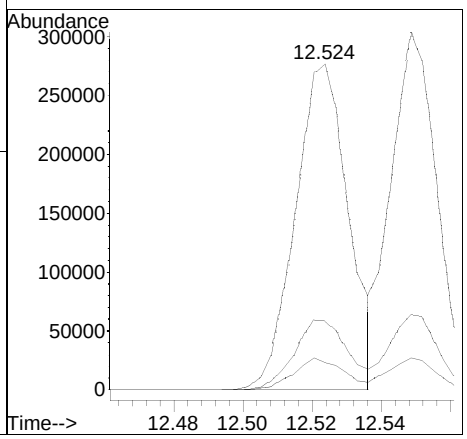


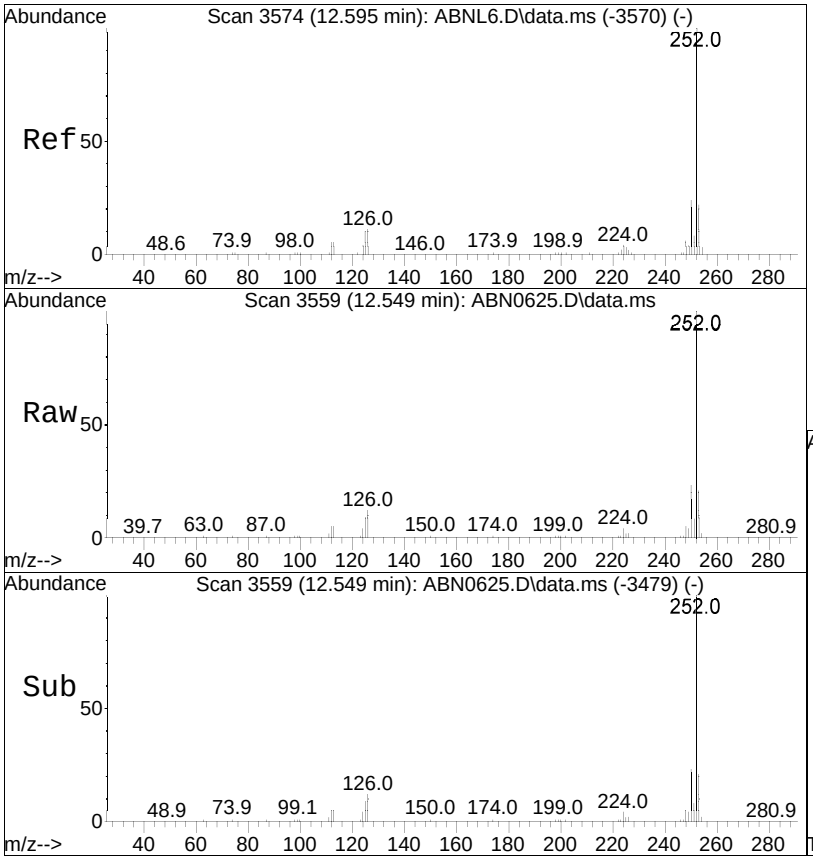


#110
Benzo(b)fluoranthene
Concen: 4.90 ug/ml M3
RT: 12.524 min Scan# 3551
Delta R.T. 0.000 min
Lab File: ABN0625.D
Acq: 25 Jun 2024 7:19 am

Tgt Ion:252 Resp: 294623

Ion	Ratio	Lower	Upper
252	100		
125	9.4	13.3	19.9#
253	21.8	17.1	25.7

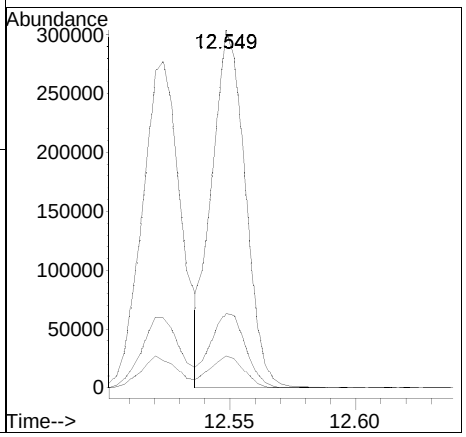


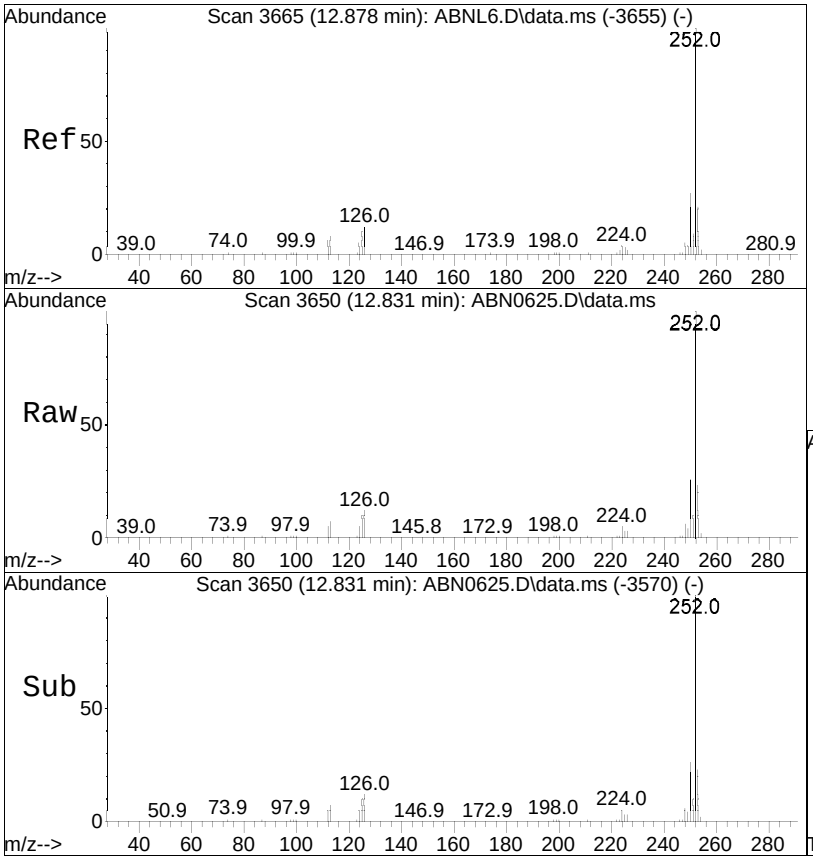


#111
Benzo(k)fluoranthene
Concen: 4.94 ug/ml
RT: 12.549 min Scan# 3559
Delta R.T. 0.000 min
Lab File: ABN0625.D
Acq: 25 Jun 2024 7:19 am

Tgt Ion:252 Resp: 282840

Ion	Ratio	Lower	Upper
252	100		
125	9.0	13.0	19.6#
253	21.5	16.8	25.2

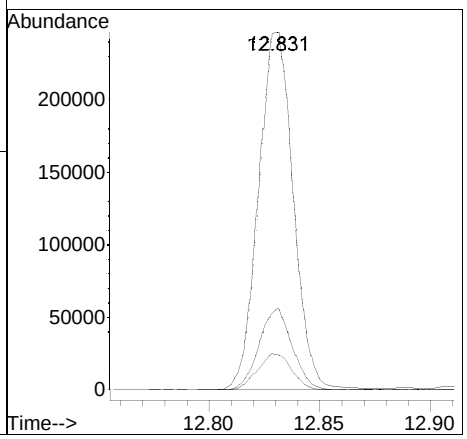


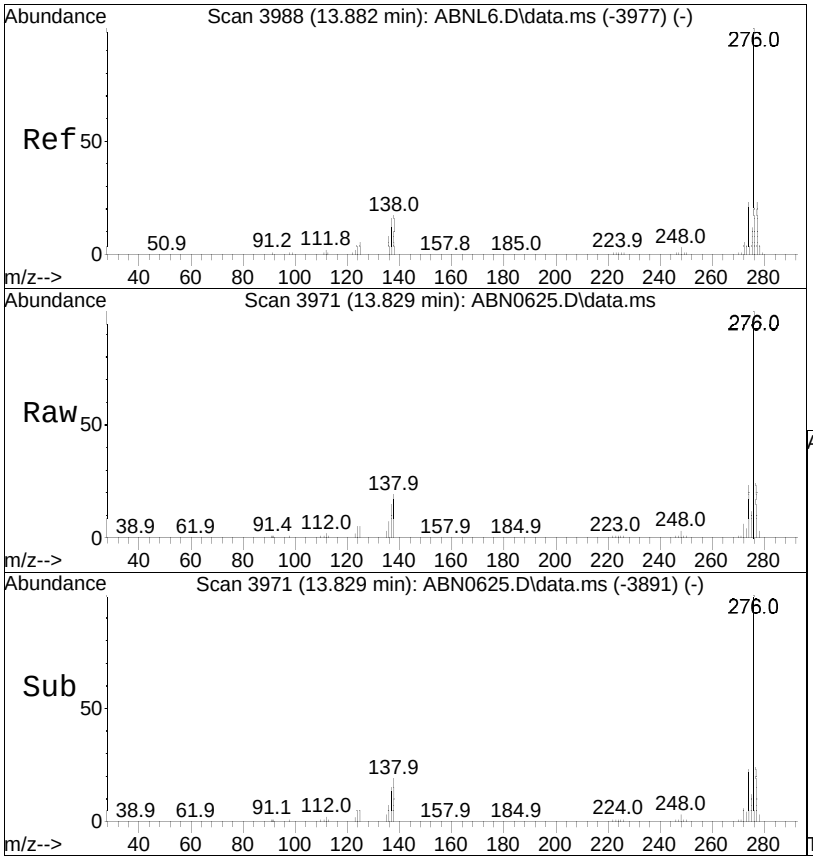


#112
Benzo(a)pyrene
Concen: 5.01 ug/ml
RT: 12.831 min Scan# 3650
Delta R.T. 0.000 min
Lab File: ABN0625.D
Acq: 25 Jun 2024 7:19 am

Tgt Ion:252 Resp: 266963

Ion	Ratio	Lower	Upper
252	100		
125	10.1	14.2	21.2#
253	21.9	16.9	25.3

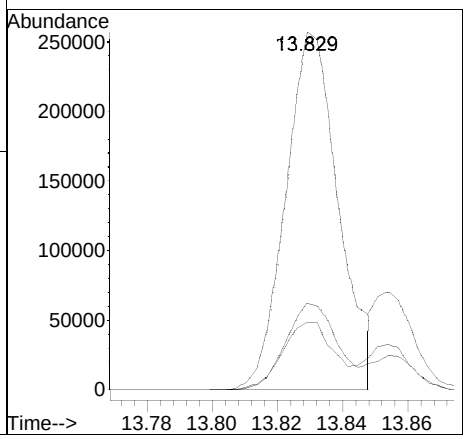


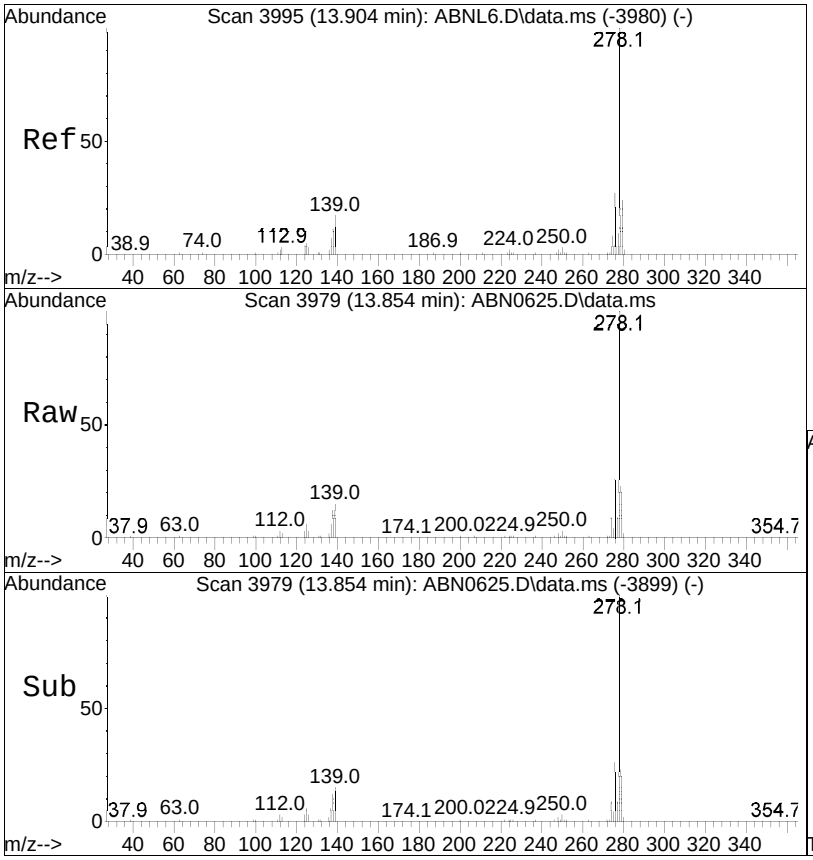


#114
Indeno(1,2,3-cd)pyrene
Concen: 4.61 ug/mL
RT: 13.829 min Scan# 3971
Delta R.T. 0.000 min
Lab File: ABN0625.D
Acq: 25 Jun 2024 7:19 am

Tgt Ion:276 Resp: 289023

Ion	Ratio	Lower	Upper
276	100		
138	18.4	25.1	37.7#
277	23.7	18.6	28.0

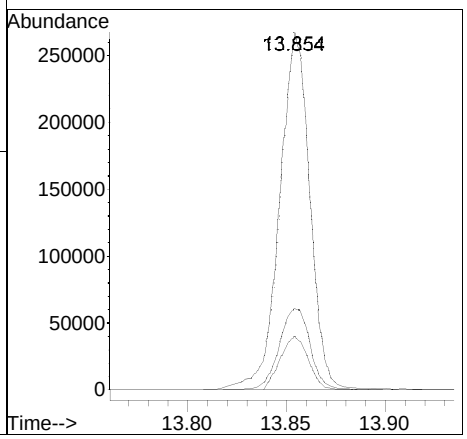


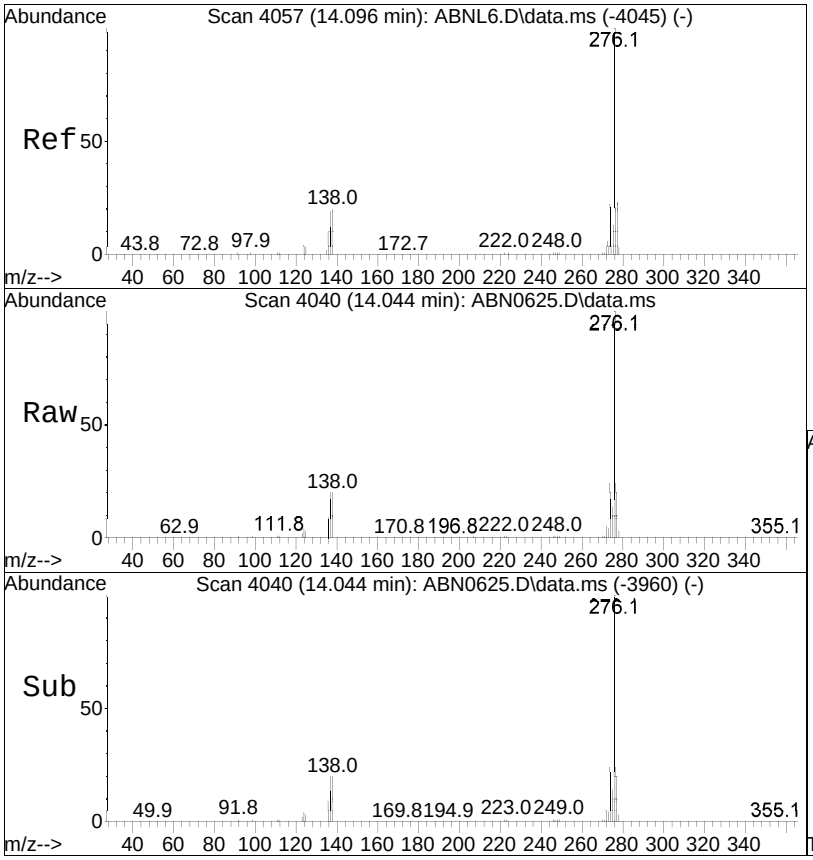


#115
Dibenzo(a,h)anthracene
Concen: 4.81 ug/ml
RT: 13.854 min Scan# 3979
Delta R.T. 0.000 min
Lab File: ABN0625.D
Acq: 25 Jun 2024 7:19 am

Tgt Ion:278 Resp: 280944

Ion	Ratio	Lower	Upper
278	100		
139	14.1	20.8	31.2#
279	23.5	18.3	27.5

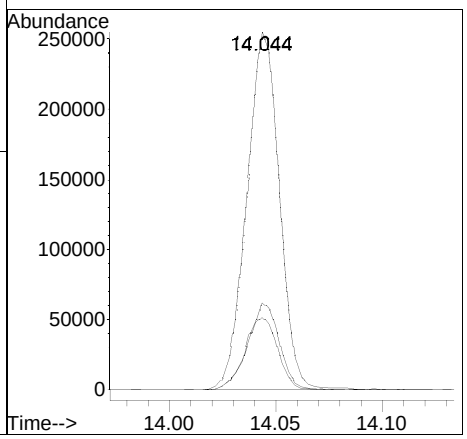




#116
Benzo(ghi)perylene
Concen: 4.71 ug/ml
RT: 14.044 min Scan# 4040
Delta R.T. 0.000 min
Lab File: ABN0625.D
Acq: 25 Jun 2024 7:19 am

Tgt Ion:276 Resp: 269976

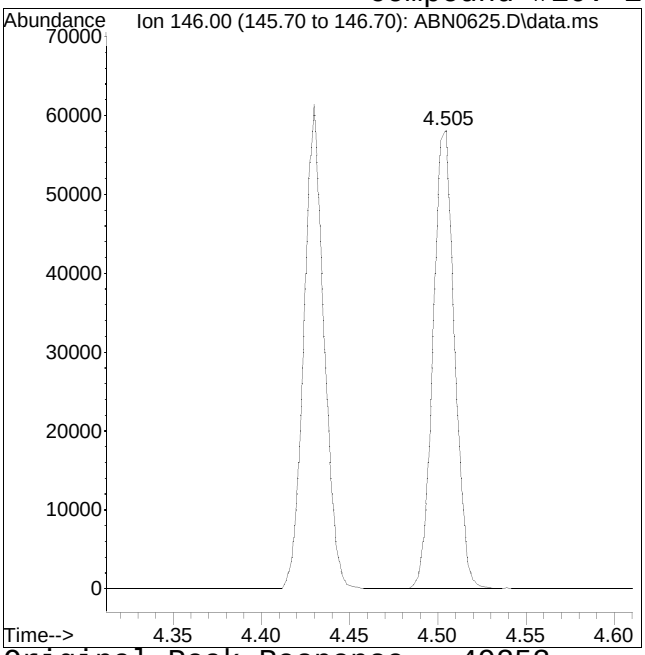
Ion	Ratio	Lower	Upper
276	100		
138	20.4	29.2	43.8#
277	23.8	18.8	28.2

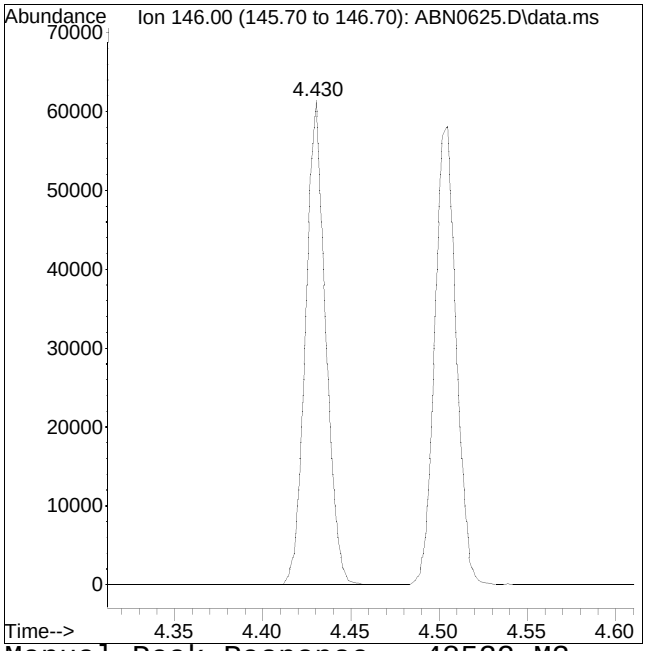


Manual Integration Report

Data Path : I:\8270\Dakota\240625RVT\ QMethod : FS240618RVT_14D_Dakota.m
Data File : ABN0625.D Operator : Dakota:ljg
Date Inj'd : 6/25/2024 7:19 am Instrument : Dakota
Sample : WG1938967-3,32,,ABN 10777 Quant Date : 6/25/2024 8:17 am

Compound #10: 1,3-Dichlorobenzene





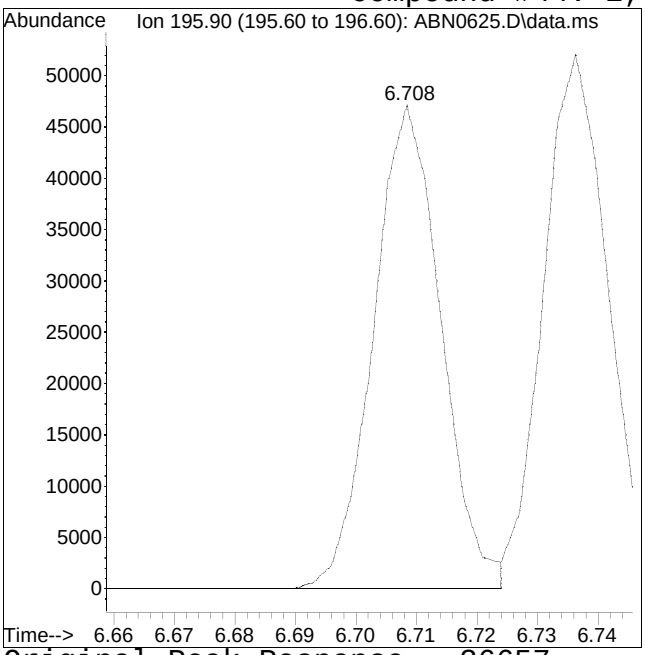
Original Peak Response = 49253 Manual Peak Response = 48532 M3

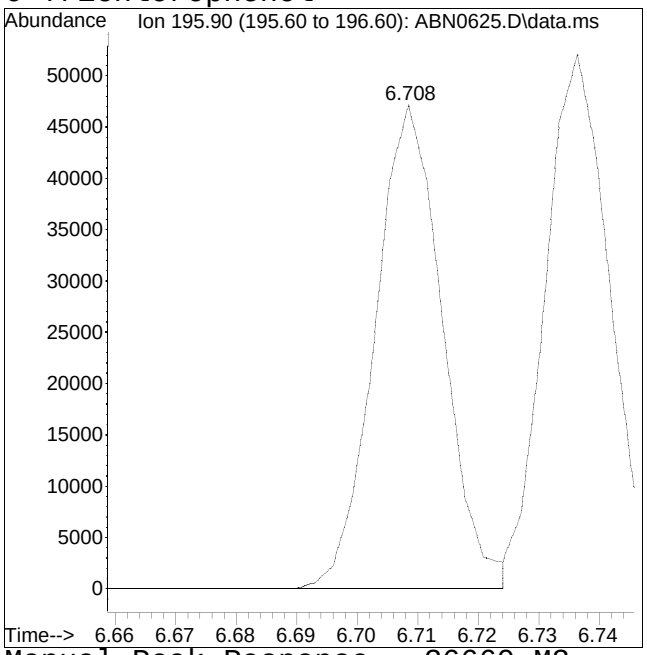
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\8270\Dakota\240625RVT\ QMethod : FS240618RVT_14D_Dakota.m
Data File : ABN0625.D Operator : Dakota:ljg
Date Inj'd : 6/25/2024 7:19 am Instrument : Dakota
Sample : WG1938967-3,32,,ABN 10777 Quant Date : 6/25/2024 8:17 am

Compound #44: 2,4,6-Trichlorophenol





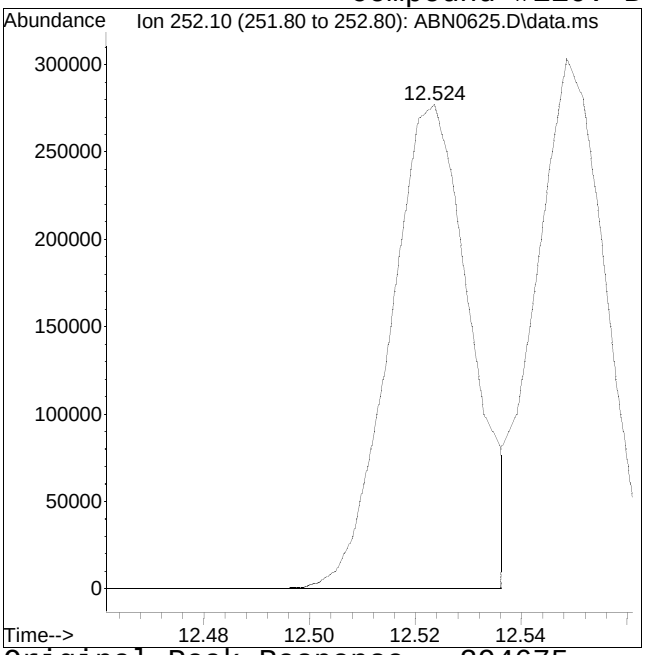
Original Peak Response = 36657 Manual Peak Response = 36660 M3

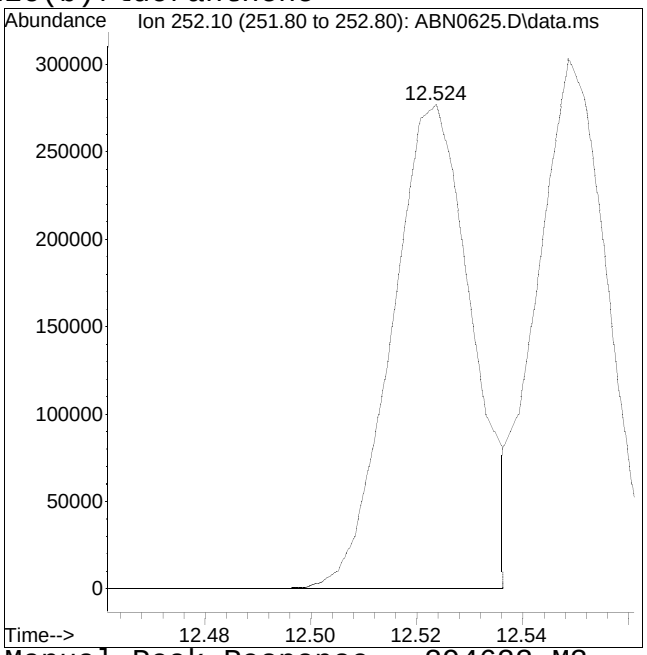
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\8270\Dakota\240625RVT\ QMethod : FS240618RVT_14D_Dakota.m
Data File : ABN0625.D Operator : Dakota:ljg
Date Inj'd : 6/25/2024 7:19 am Instrument : Dakota
Sample : WG1938967-3,32,,ABN 10777 Quant Date : 6/25/2024 8:17 am

Compound #110: Benzo(b)fluoranthene





Original Peak Response = 294675 Manual Peak Response = 294623 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Evaluate Continuing Calibration Report

Data Path : I:\8270\Dakota\240625RVT\
Data File : AP90625.D
Acq On : 25 Jun 2024 7:42 am
Operator : Dakota:ljg
Sample : WG1938967-4,32,,AP9 10776 HNY0619A
Misc : WG1938967,,ical21225
ALS Vial : 97 Sample Multiplier: 1

Quant Time: Jun 25 08:52:55 2024
Quant Method : I:\8270\dakota\240625RVT\FS240618RVT_14D_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Jun 25 08:53:24 2024
Response via : Initial Calibration

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

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
27	I	IS2_1,4-Dichlorobenzene-d4	1.000	1.000	0.0	89	0.00
28	T	Benzaldehyde	1.036	1.036	0.0	92	0.00
29	T	Acetophenone	1.772	1.792	-1.1	93	0.00
30	T	m-Toluidine	1.704	1.779	-4.4	92	0.00
31	T	2-Chloroaniline	1.648	1.663	-0.9	93	0.00
55	I	IS2_Naphthalene-d8	1.000	1.000	0.0	92	0.00
56	T	a-Terpineol	0.269	0.254	5.6	90	0.00
57	T	3-Chloroaniline	0.150	0.144	4.0	91	0.00
58	T	2,6-Dichlorophenol	0.375	0.373	0.5	92	0.00
59	T	1-chloro-2-nitrobenzene	0.155	0.145	6.5	91	0.00
60	T	Caprolactam	0.134	0.144	-7.5	98	0.00
61	T	1,2,4,5-Tetrachlorobenzene	0.499	0.476	4.6	91	0.00
62	T	Biphenyl	1.069	1.033	3.4	92	0.00
83	I	IS2_Acenaphthene-d10	1.000	1.000	0.0	94	0.00
84	T	Dichloran	0.236	0.220	6.8	94	0.00
85	T	Pentachloronitrobenzene	0.220	0.219	0.5	91	0.00
98	I	IS2_Phenanthrene-d10	1.000	1.000	0.0	95	0.00
99	T	Diphenamid	0.521	0.529	-1.5	95	0.00

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\240625RVT\
Data File : AP90625.D
Acq On : 25 Jun 2024 7:42 am
Operator : Dakota:ljg
Sample : WG1938967-4,32,,AP9 10776 HNY0619A
Misc : WG1938967,,ical21225
ALS Vial : 97 Sample Multiplier: 1

Quant Time: Jun 25 08:52:55 2024
Quant Method : I:\8270\dakota\240625RVT\FS240618RVT_14D_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Jun 25 08:53:24 2024
Response via : Initial Calibration

Sub List : AP9ical - AP9 ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
27) IS2_1,4-Dichlorobenzen...	4.486	152	27010	4.000	ug/ml	0.00
55) IS2_Naphthalene-d8	5.720	136	101426	4.000	ug/ml	0.00
83) IS2_Acenaphthene-d10	7.420	164	69385	4.000	ug/ml	0.00
98) IS2_Phenanthrene-d10	8.841	188	165806	4.000	ug/ml	0.00
System Monitoring Compounds						
Target Compounds						Qvalue
28) Benzaldehyde	4.051	105	34989	5.001	ug/ml	99
29) Acetophenone	4.890	105	60516	5.059	ug/ml#	77
30) m-Toluidine	4.974	106	60077	5.222	ug/ml	94
31) 2-Chloroaniline	5.331	127	56153	5.047	ug/ml#	90
56) a-Terpineol	5.782	59	32242	4.723	ug/ml#	75
57) 3-Chloroaniline	5.798	65	18288	4.812	ug/ml	97
58) 2,6-Dichlorophenol	5.823	162	47312	4.972	ug/ml#	83
59) 1-chloro-2-nitrobenzene	6.074	111	18335	4.654	ug/ml#	1
60) Caprolactam	6.109	55	18270	5.387	ug/ml#	64
61) 1,2,4,5-Tetrachloroben...	6.587	216	60327	4.763	ug/ml#	95
62) Biphenyl	6.879	154	130988	4.833	ug/ml	98
84) Dichloran	8.545	206	19087	4.669	ug/ml#	59
85) Pentachloronitrobenzene	8.694	237	18953	4.969	ug/ml#	81
99) Diphenamid	9.751	167	109663	5.082	ug/ml#	75

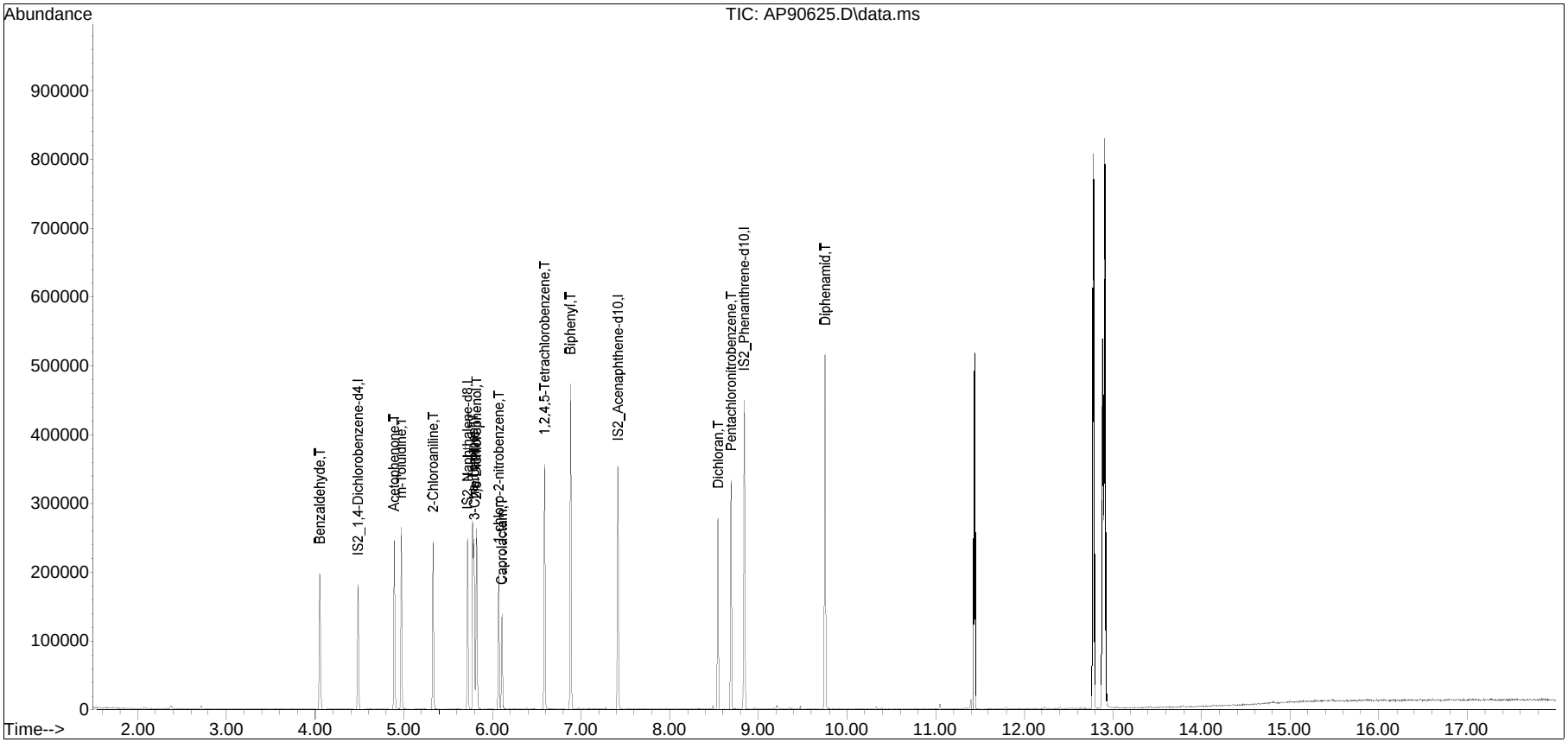
(#) = qualifier out of range (m) = manual integration (+) = signals summed

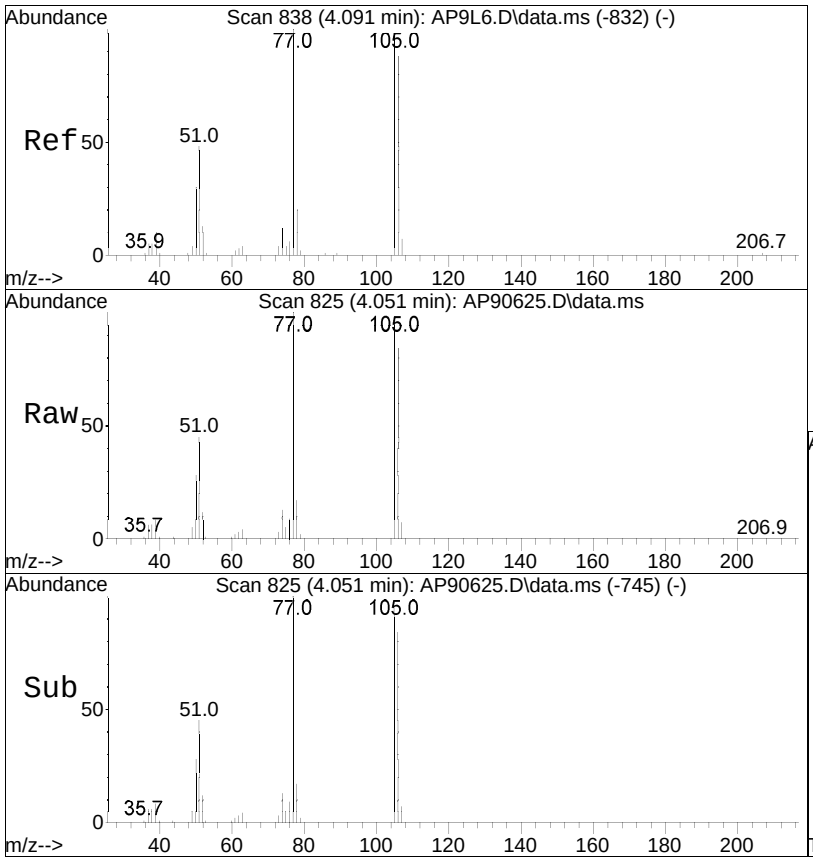
Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\240625RVT\
Data File : AP90625.D
Acq On : 25 Jun 2024 7:42 am
Operator : Dakota:ljg
Sample : WG1938967-4,32,,AP9 10776 HNY0619A
Misc : WG1938967,,ical21225
ALS Vial : 97 Sample Multiplier: 1

Quant Time: Jun 25 08:52:55 2024
Quant Method : I:\8270\dakota\240625RVT\FS240618RVT_14D_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Jun 25 08:53:24 2024
Response via : Initial Calibration

Sub List : AP9ical - AP9 ical sublist

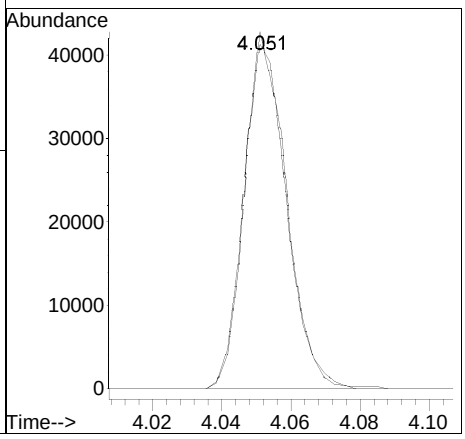


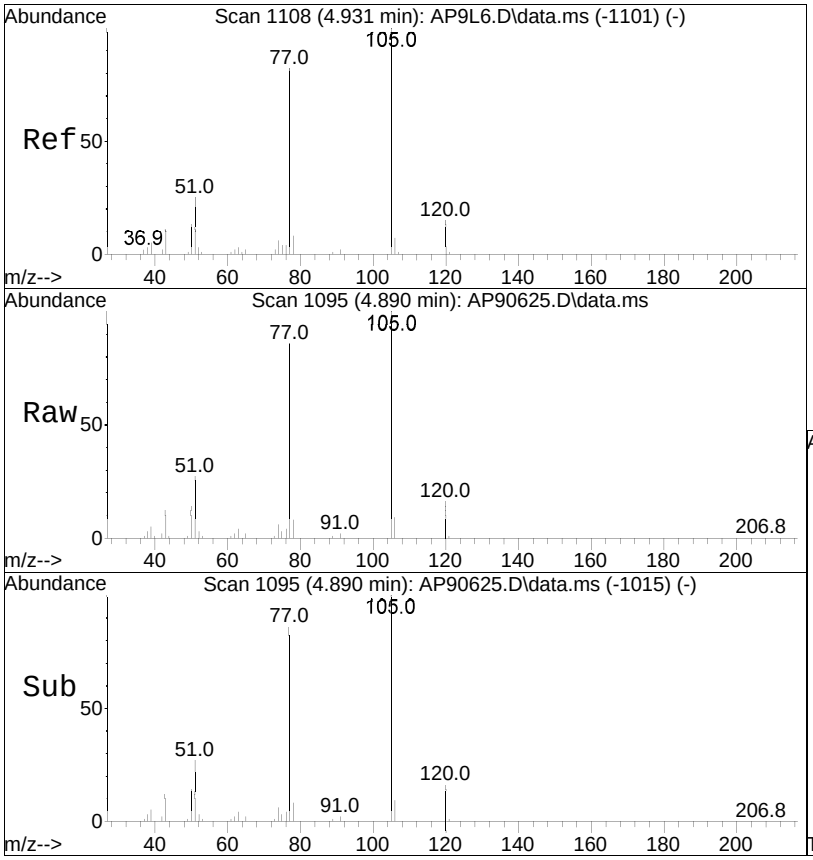


#28
Benzaldehyde
Concen: 5.00 ug/ml
RT: 4.051 min Scan# 825
Delta R.T. 0.000 min
Lab File: AP90625.D
Acq: 25 Jun 2024 7:42 am

Tgt Ion:105 Resp: 34989

Ion	Ratio	Lower	Upper
105	100		
77	103.9	82.2	123.4

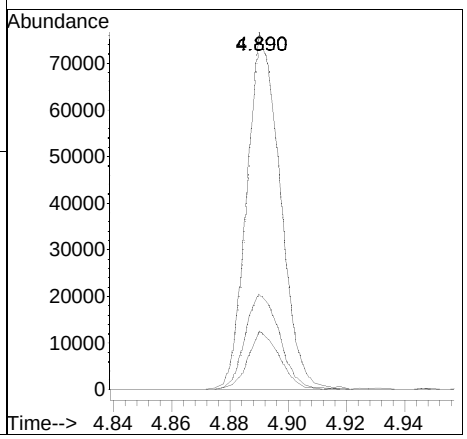


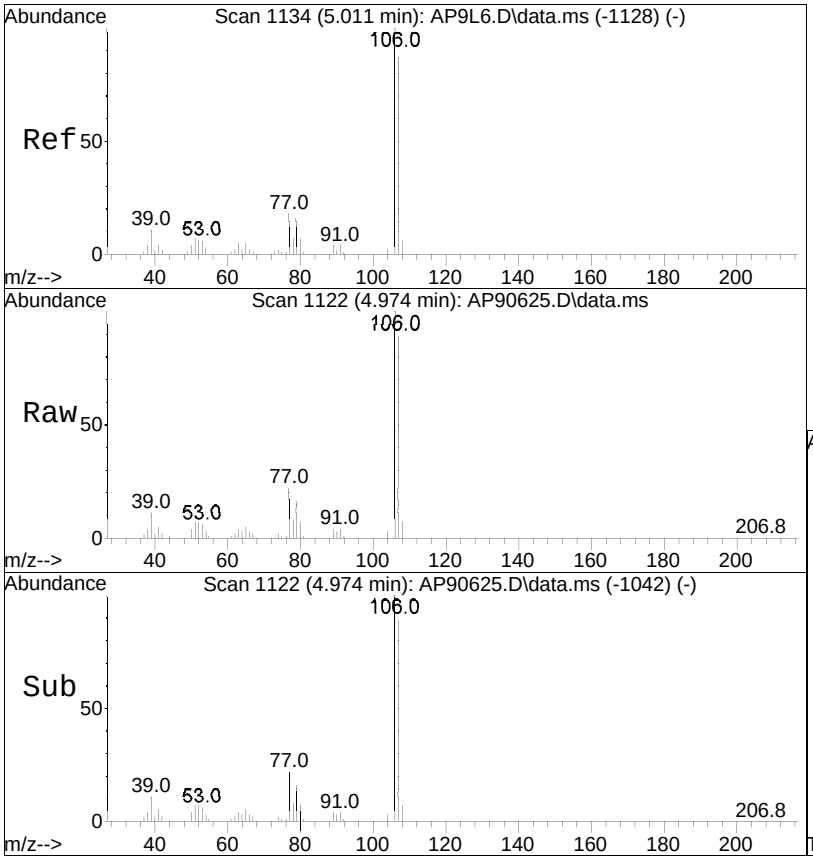


#29
Acetophenone
Concen: 5.06 ug/ml
RT: 4.890 min Scan# 1095
Delta R.T. 0.000 min
Lab File: AP90625.D
Acq: 25 Jun 2024 7:42 am

Tgt Ion:105 Resp: 60516

Ion	Ratio	Lower	Upper
105	100		
120	15.6	20.5	30.7#
51	27.7	34.9	52.3#

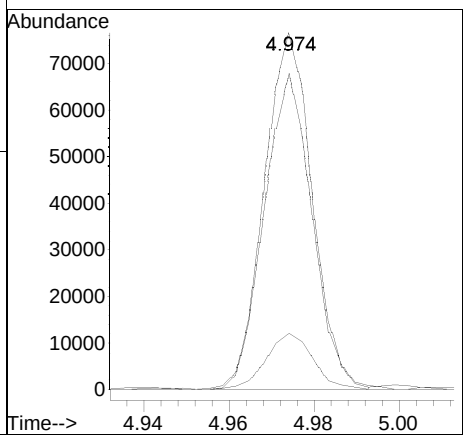


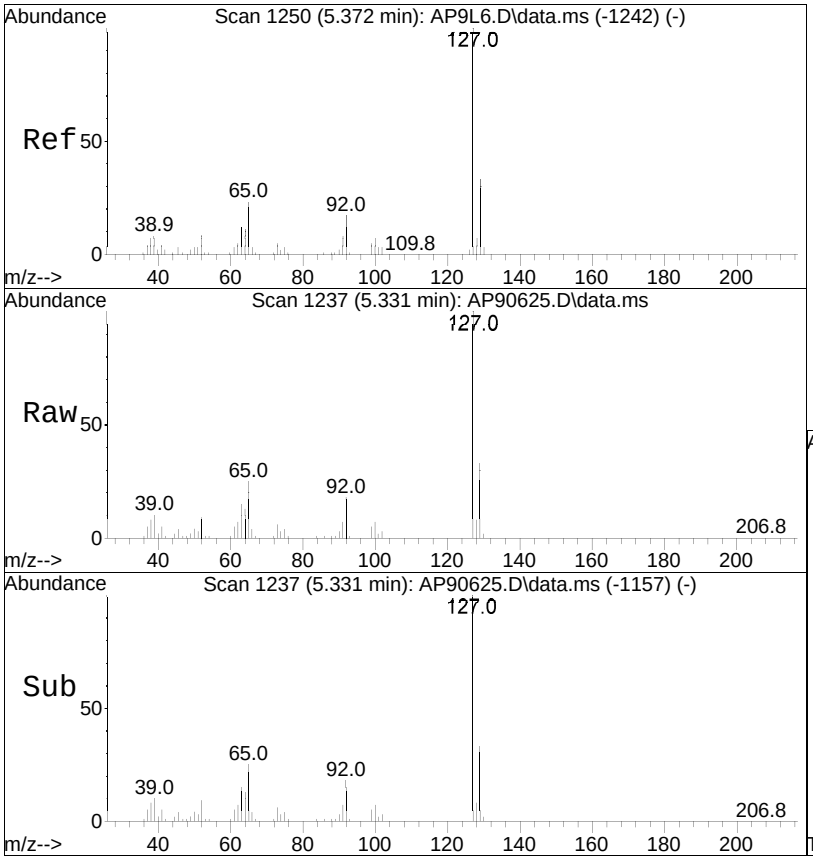


#30
m-Toluidine
Concen: 5.22 ug/ml
RT: 4.974 min Scan# 1122
Delta R.T. 0.000 min
Lab File: AP90625.D
Acq: 25 Jun 2024 7:42 am

Tgt Ion:106 Resp: 60077

Ion	Ratio	Lower	Upper
106	100		
107	88.5	75.7	113.5
79	15.3	11.8	17.8

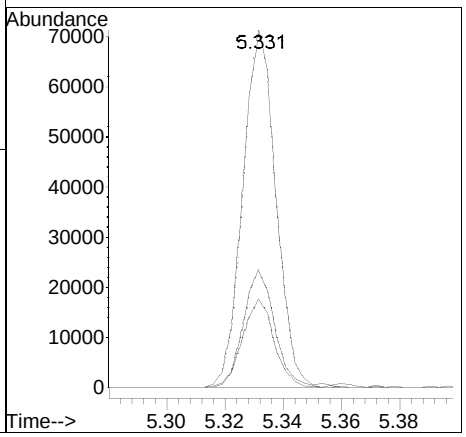


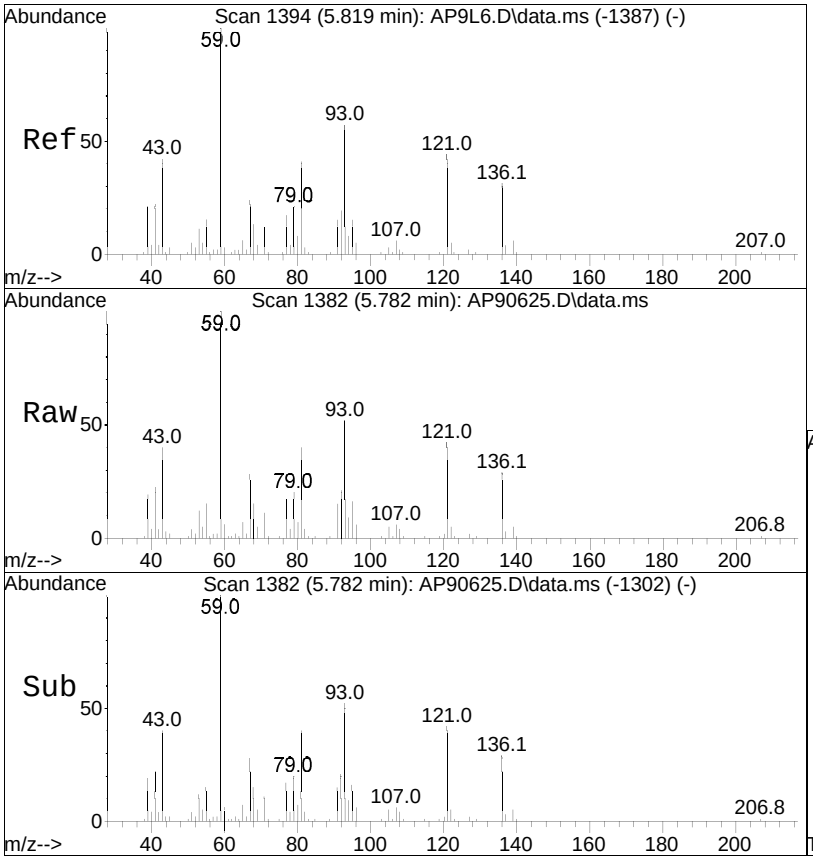


#31
2-Chloroaniline
Concen: 5.05 ug/ml
RT: 5.331 min Scan# 1237
Delta R.T. 0.000 min
Lab File: AP90625.D
Acq: 25 Jun 2024 7:42 am

Tgt Ion:127 Resp: 56153

Ion	Ratio	Lower	Upper
127	100		
129	31.0	25.9	38.9
65	23.5	26.3	39.5#

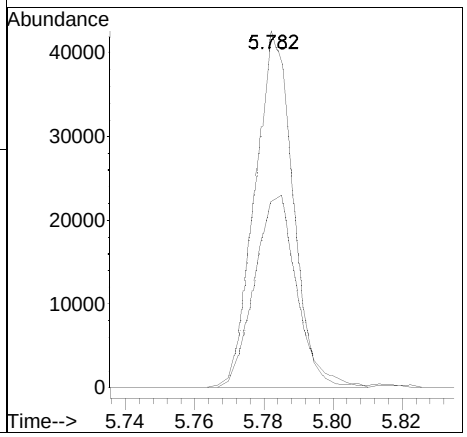


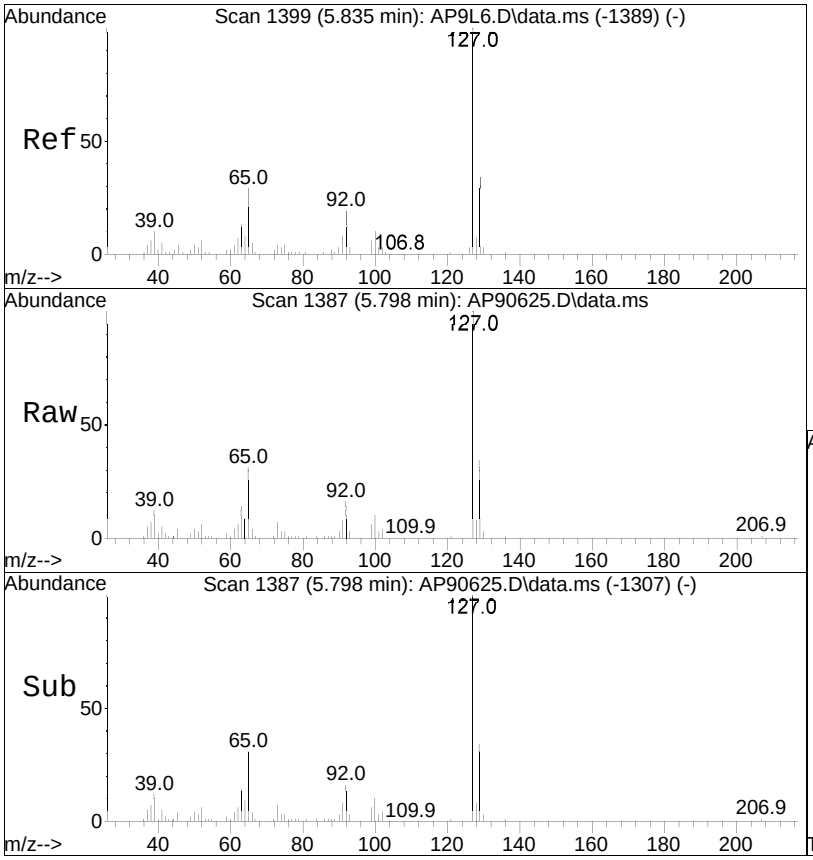


#56
a-Terpineol
Concen: 4.72 ug/ml
RT: 5.782 min Scan# 1382
Delta R.T. 0.000 min
Lab File: AP90625.D
Acq: 25 Jun 2024 7:42 am

Tgt Ion: 59 Resp: 32242

Ion	Ratio	Lower	Upper
59	100		
93	60.7	35.6	53.4#

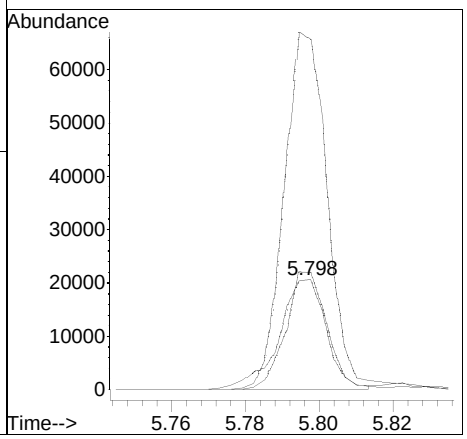


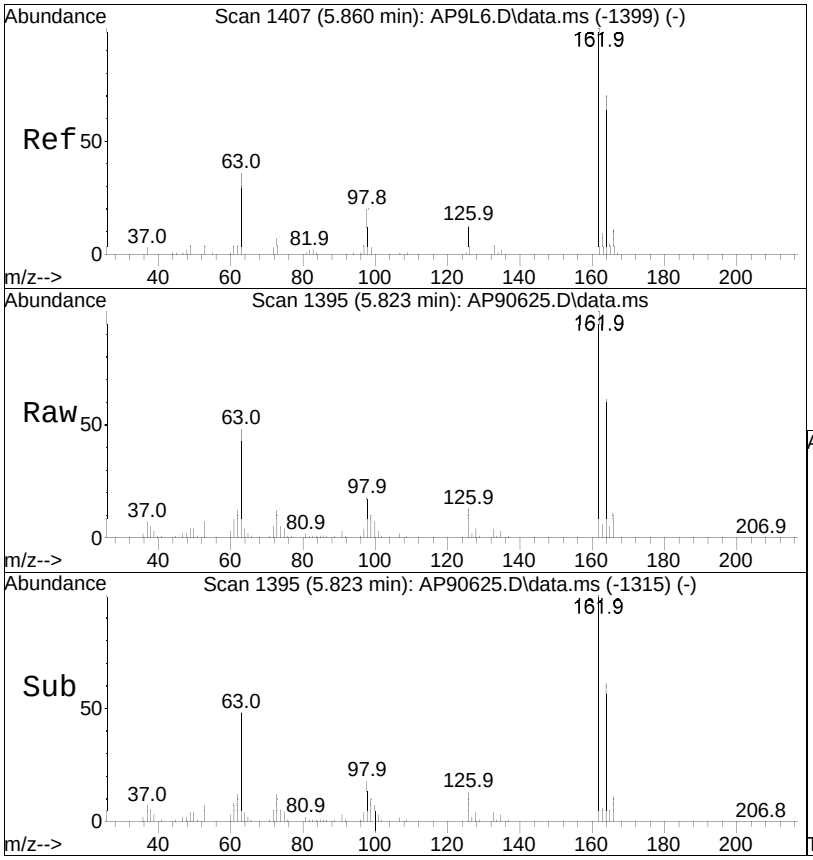


#57
3-Chloroaniline
Concen: 4.81 ug/ml
RT: 5.798 min Scan# 1387
Delta R.T. 0.000 min
Lab File: AP90625.D
Acq: 25 Jun 2024 7:42 am

Tgt Ion: 65 Resp: 18288

Ion	Ratio	Lower	Upper
65	100		
127	298.8	243.2	364.8
129	93.5	78.8	118.2

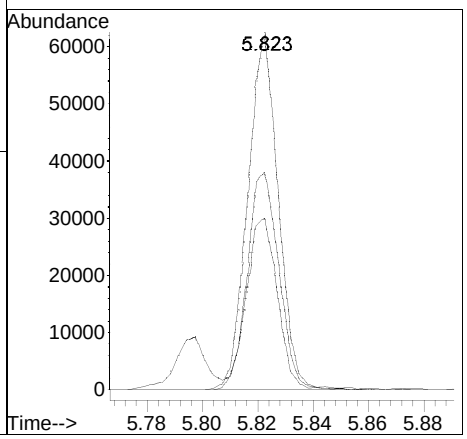


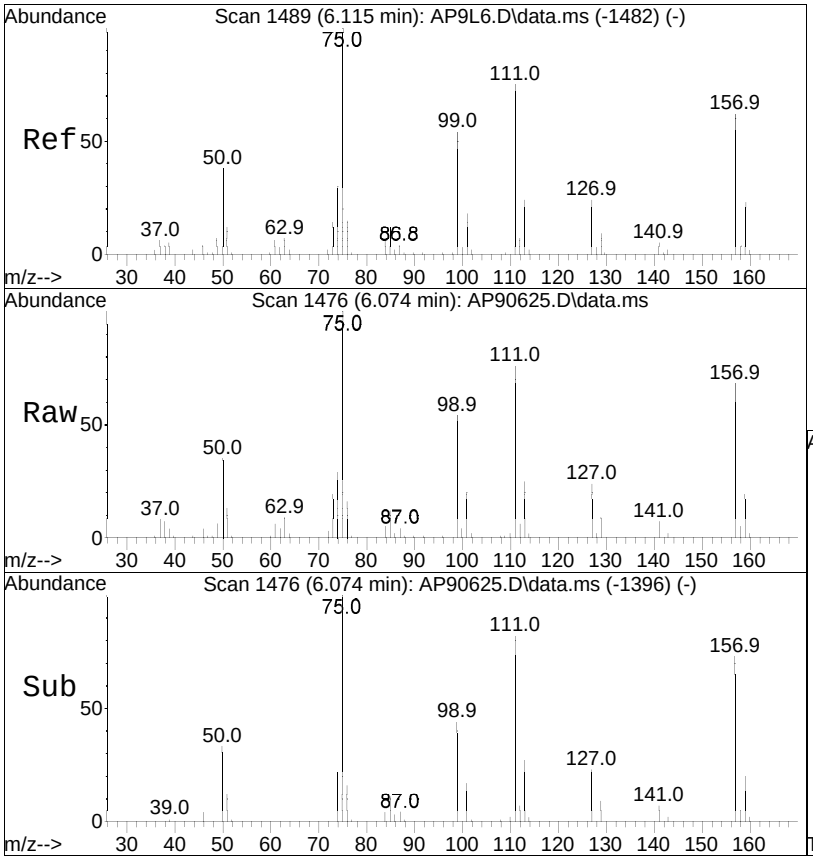


#58
2,6-Dichlorophenol
Concen: 4.97 ug/ml
RT: 5.823 min Scan# 1395
Delta R.T. 0.000 min
Lab File: AP90625.D
Acq: 25 Jun 2024 7:42 am

Tgt Ion:162 Resp: 47312

Ion	Ratio	Lower	Upper
162	100		
164	63.1	51.1	76.7
63	49.2	60.8	91.2#

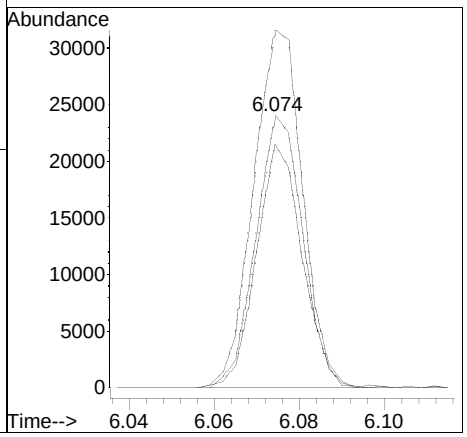


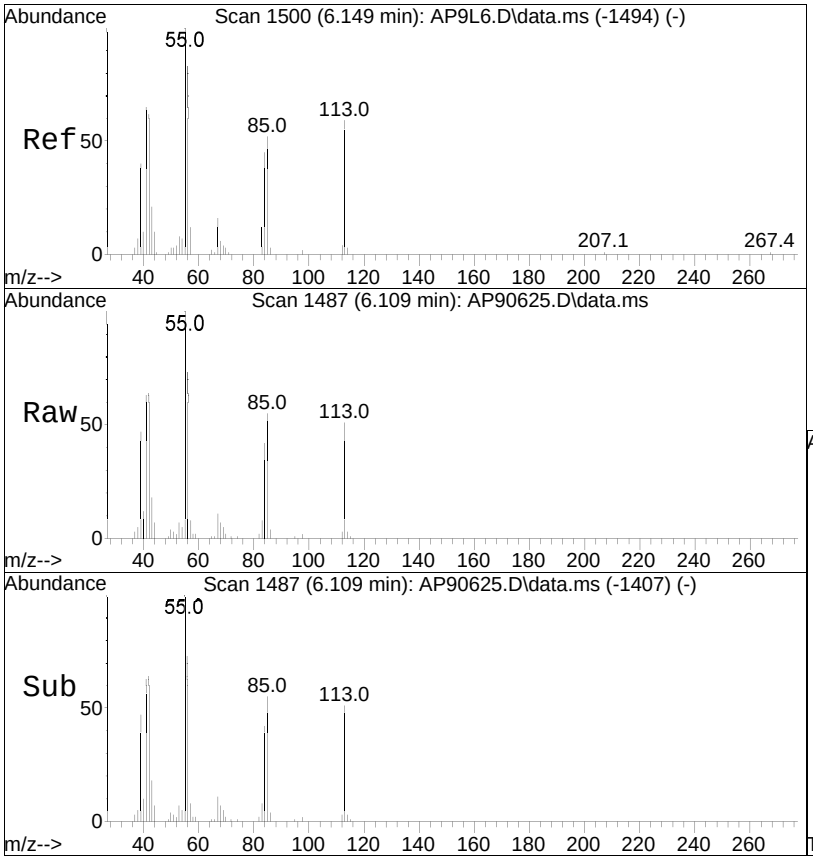


#59
1-chloro-2-nitrobenzene
Concen: 4.65 ug/ml
RT: 6.074 min Scan# 1476
Delta R.T. 0.000 min
Lab File: AP90625.D
Acq: 25 Jun 2024 7:42 am

Tgt Ion:111 Resp: 18335

Ion	Ratio	Lower	Upper
111	100		
157	87.3	0.0	0.0#
75	137.5	28.2	42.2#

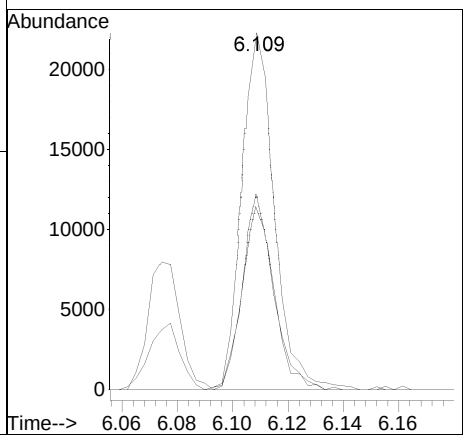


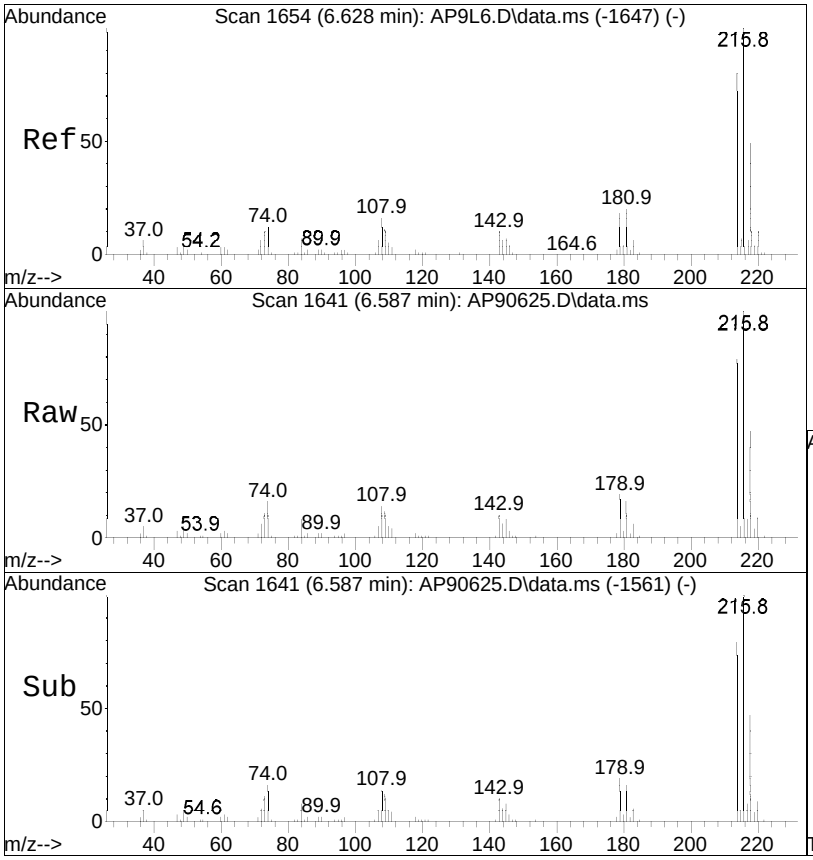


#60
Caprolactam
Concen: 5.39 ug/ml
RT: 6.109 min Scan# 1487
Delta R.T. 0.000 min
Lab File: AP90625.D
Acq: 25 Jun 2024 7:42 am

Tgt Ion: 55 Resp: 18270

Ion	Ratio	Lower	Upper
55	100		
85	52.3	19.8	29.6#
113	50.9	29.6	44.4#

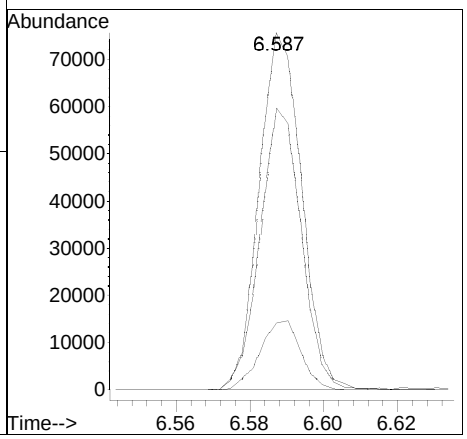


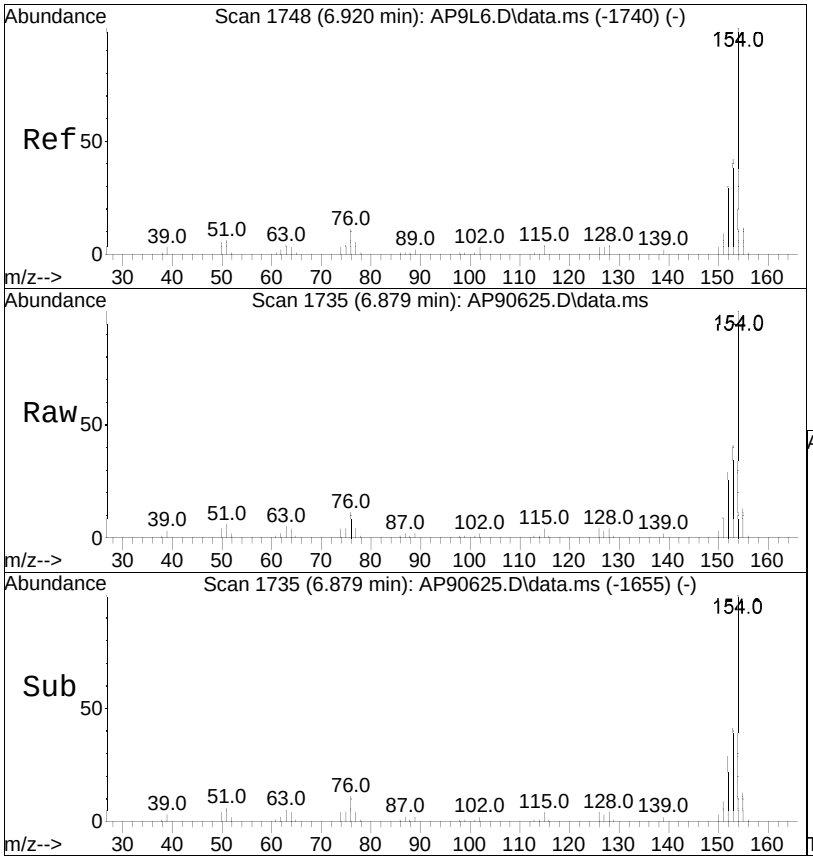


#61
1,2,4,5-Tetrachlorobenzene
Concen: 4.76 ug/ml
RT: 6.587 min Scan# 1641
Delta R.T. 0.000 min
Lab File: AP90625.D
Acq: 25 Jun 2024 7:42 am

Tgt Ion:216 Resp: 60327

Ion	Ratio	Lower	Upper
216	100		
214	77.0	63.7	95.5
179	18.8	19.0	28.6#

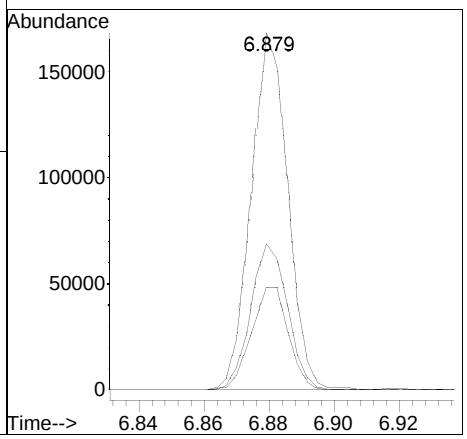


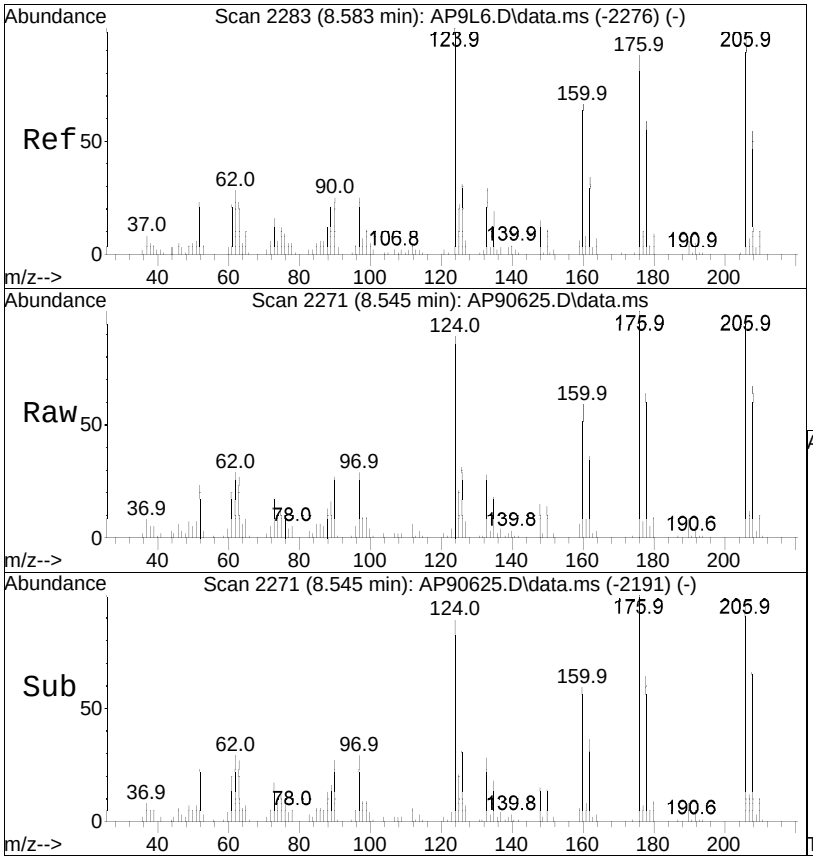


#62
Biphenyl
Concen: 4.83 ug/ml
RT: 6.879 min Scan# 1735
Delta R.T. 0.000 min
Lab File: AP90625.D
Acq: 25 Jun 2024 7:42 am

Tgt Ion:154 Resp: 130988

Ion	Ratio	Lower	Upper
154	100		
153	41.3	32.3	48.5
152	29.3	22.5	33.7

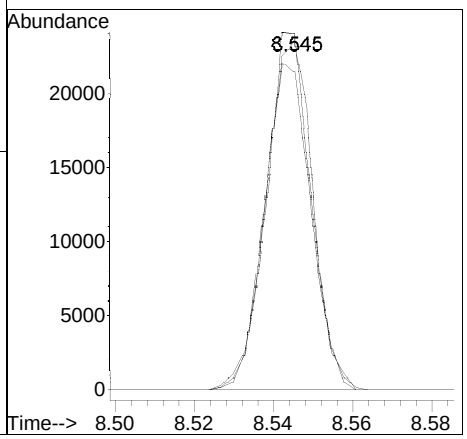


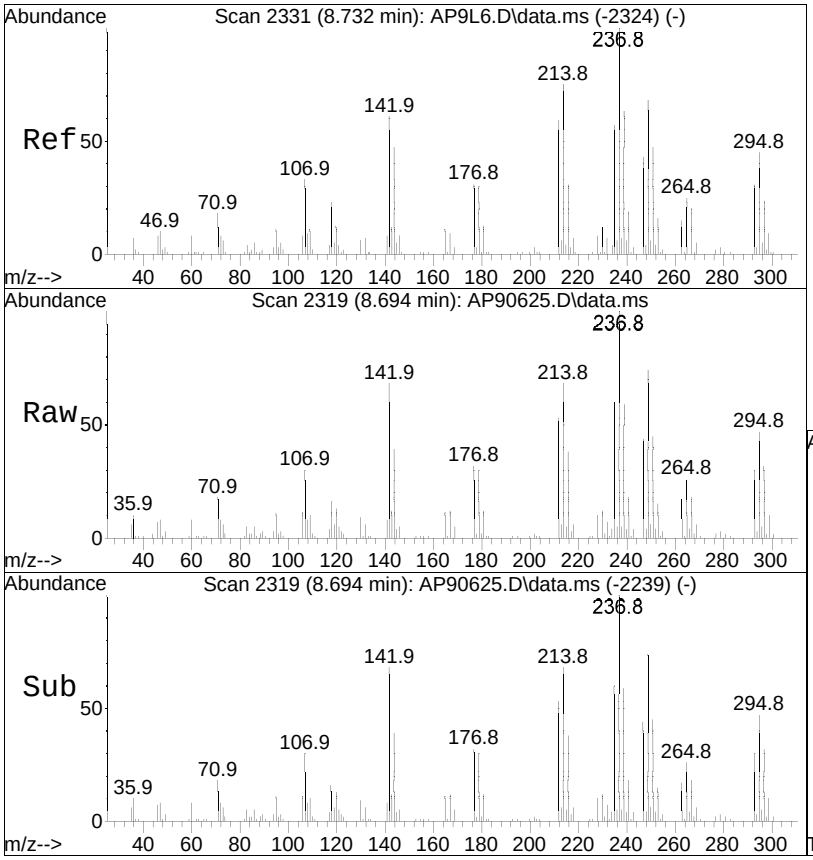


#84
Dichloran
Concen: 4.67 ug/ml
RT: 8.545 min Scan# 2271
Delta R.T. 0.000 min
Lab File: AP90625.D
Acq: 25 Jun 2024 7:42 am

Tgt Ion:206 Resp: 19087

Ion	Ratio	Lower	Upper
206	100		
176	99.3	104.6	157.0#
124	94.0	130.5	195.7#

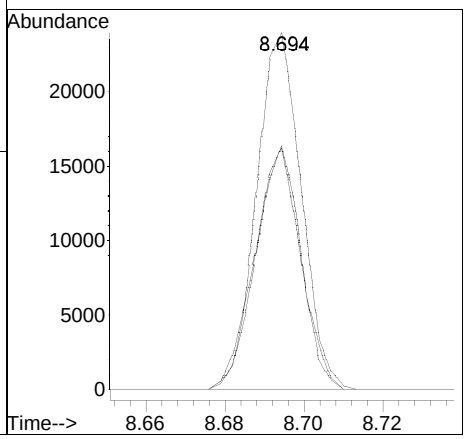


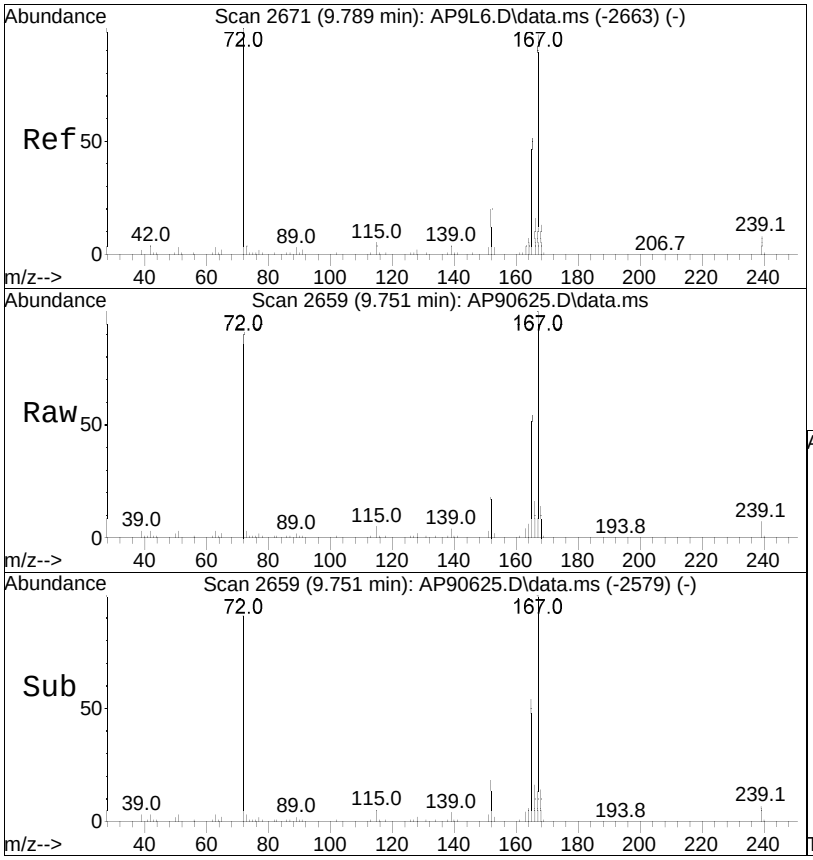


#85
Pentachloronitrobenzene
Concen: 4.97 ug/ml
RT: 8.694 min Scan# 2319
Delta R.T. 0.000 min
Lab File: AP90625.D
Acq: 25 Jun 2024 7:42 am

Tgt Ion:237 Resp: 18953

Ion	Ratio	Lower	Upper
237	100		
142	67.9	77.0	115.4#
214	68.7	58.2	87.4

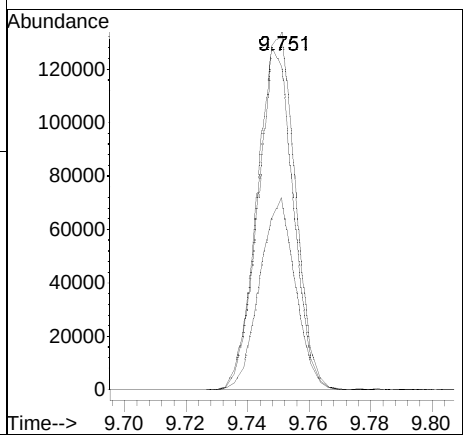




#99
Diphenamid
Concen: 5.08 ug/ml
RT: 9.751 min Scan# 2659
Delta R.T. 0.000 min
Lab File: AP90625.D
Acq: 25 Jun 2024 7:42 am

Tgt Ion:167 Resp: 109663

Ion	Ratio	Lower	Upper
167	100		
72	95.6	109.7	164.5#
165	52.6	41.8	62.6



Manual Integration Report

Data Path	: I:\8270\Dakota\240625RVT\	QMethod	: FS240618RVT_14D_Dakota.m
Data File	: AP90625.D	Operator	: Dakota:ljg
Date Inj'd	: 6/25/2024 7:42 am	Instrument	: Dakota
Sample	: WG1938967-4,32,,AP9 10776	Quant Date	: 6/25/2024 8:53 am

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

Evaluate Continuing Calibration Report

Data Path : I:\8270\Dakota\240625RVT\
Data File : ADP0625.D
Acq On : 25 Jun 2024 8:05 am
Operator : Dakota:ljg
Sample : WG1938967-5,32,,ADP 10751 HNY0619A
Misc : WG1938967,,ical21225
ALS Vial : 98 Sample Multiplier: 1

Quant Time: Jun 25 08:53:54 2024
Quant Method : I:\8270\dakota\240625RVT\FS240618RVT_14D_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Jun 25 08:54:23 2024
Response via : Initial Calibration

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

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(min)
32	I	IS3_1,4-Dichlorobenzene-d4		1.000	1.000	0.0	104	0.00
33	T	1,4-Dioxane		0.450	0.426	5.3	110	0.00
34	T	n-Decane		1.059	0.904	14.6	103	0.00
86	I	IS3_Acenaphthene-d10		1.000	1.000	0.0	103	0.00
87	T	Atrazine		0.450	0.412	8.4	110	0.00
100	I	IS3_Phenanthrene-d10		1.000	1.000	0.0	100	0.00
101	T	n-Octadecane		0.319	0.265	16.9	94	0.00
102	T	Parathion	*	5.000	4.332	13.4	102	0.00
103	T	3,3'-Dimethylbenzidine		0.735	0.760	-3.4	112	0.00

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\240625RVT\
Data File : ADP0625.D
Acq On : 25 Jun 2024 8:05 am
Operator : Dakota:ljg
Sample : WG1938967-5,32,,ADP 10751 HNY0619A
Misc : WG1938967,,ical21225
ALS Vial : 98 Sample Multiplier: 1

Quant Time: Jun 25 08:53:54 2024
Quant Method : I:\8270\dakota\240625RVT\FS240618RVT_14D_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Jun 25 08:54:23 2024
Response via : Initial Calibration

Sub List : ADPical_REV2 - ADP sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
32) IS3_1,4-Dichlorobenzen...	4.486	152	29091	4.000	ug/ml	0.00
86) IS3_Acenaphthene-d10	7.417	164	69313	4.000	ug/ml	0.00
100) IS3_Phenanthrene-d10	8.841	188	162640	4.000	ug/ml	0.00
System Monitoring Compounds						
Target Compounds						Qvalue
33) 1,4-Dioxane	1.577	88	15477	4.729	ug/ml#	40
34) n-Decane	4.384	57	32858	4.267	ug/ml#	27
87) Atrazine	8.626	200	35727	4.581	ug/ml#	89
101) n-Octadecane	8.834	57	53948	4.155	ug/ml#	1
102) Parathion	9.630	109	16670	4.332	ug/ml	90
103) 3,3'-Dimethylbenzidine	10.892	212	154605	5.175	ug/ml	99

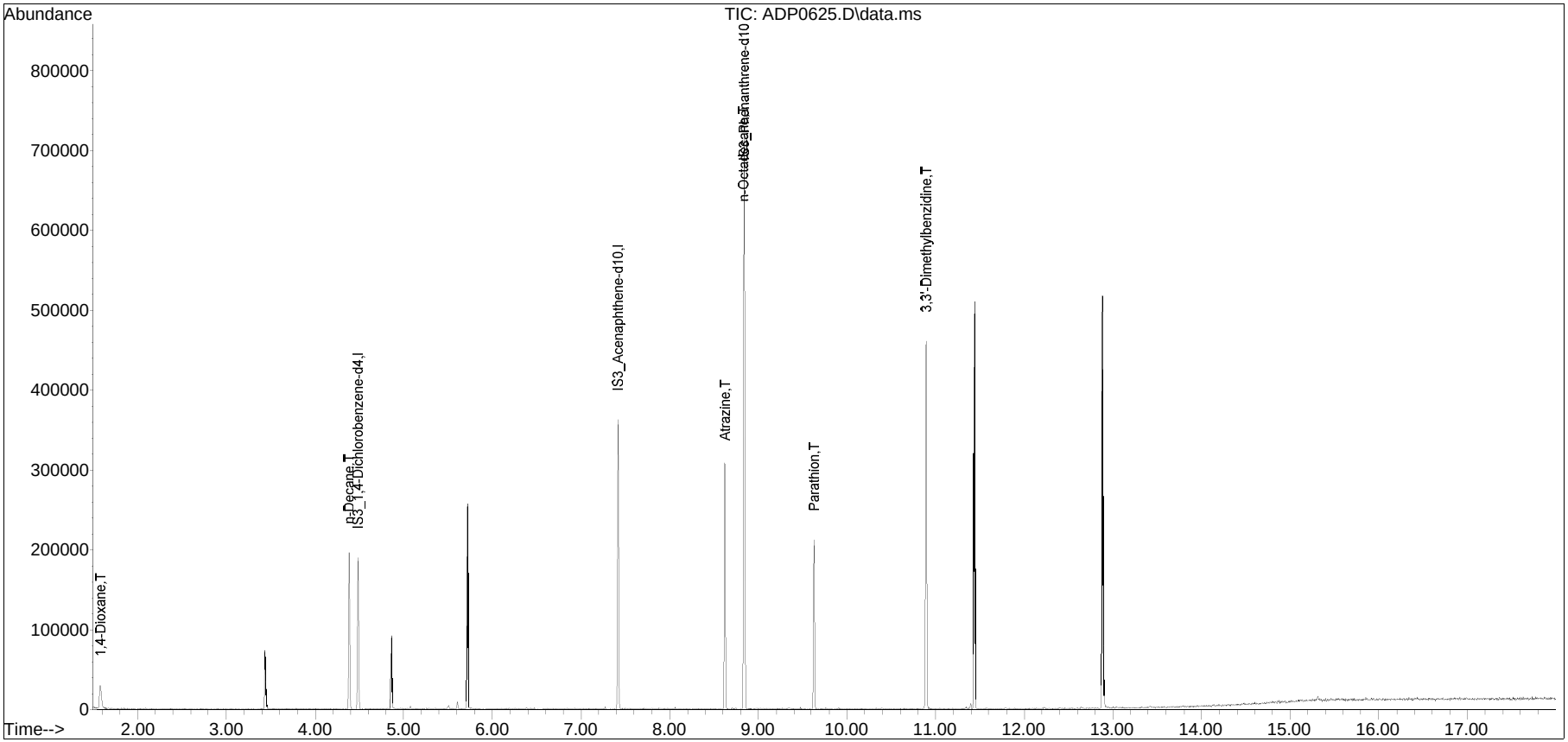
(#) = qualifier out of range (m) = manual integration (+) = signals summed

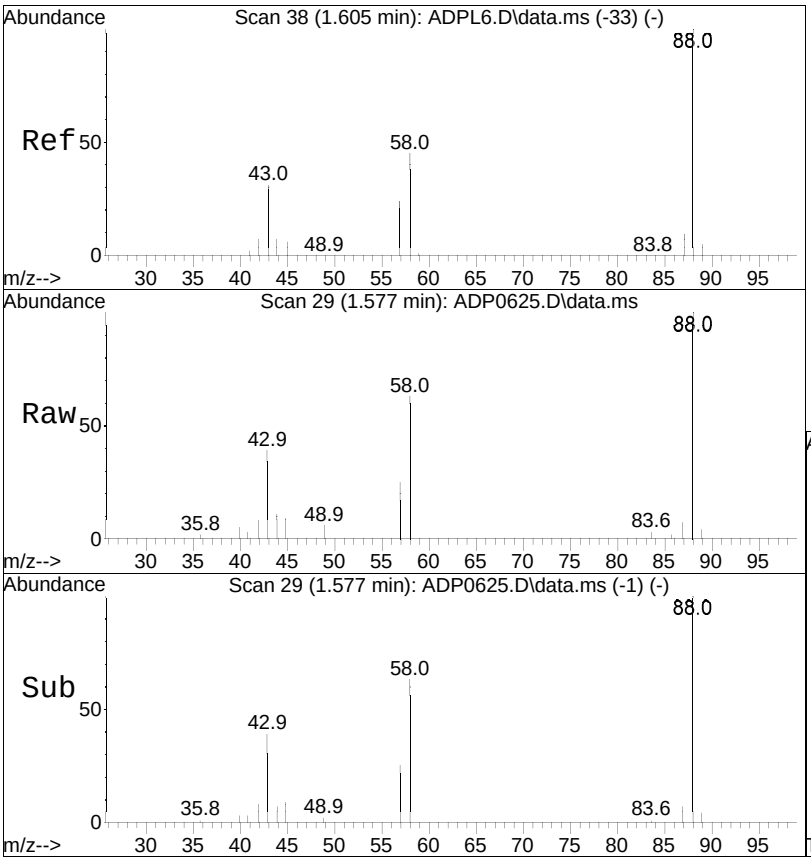
Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\240625RVT\
Data File : ADP0625.D
Acq On : 25 Jun 2024 8:05 am
Operator : Dakota:ljg
Sample : WG1938967-5,32,,ADP 10751 HNY0619A
Misc : WG1938967,,ical21225
ALS Vial : 98 Sample Multiplier: 1

Quant Time: Jun 25 08:53:54 2024
Quant Method : I:\8270\dakota\240625RVT\FS240618RVT_14D_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Jun 25 08:54:23 2024
Response via : Initial Calibration

Sub List : ADPical_REV2 - ADP sublist

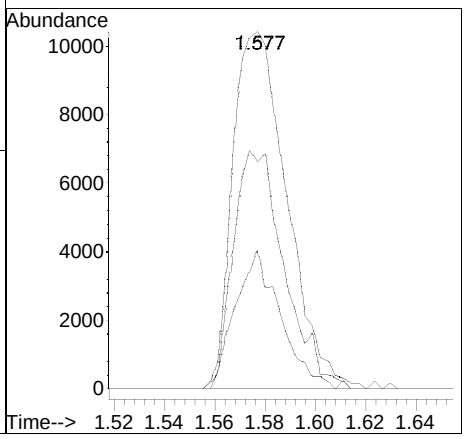


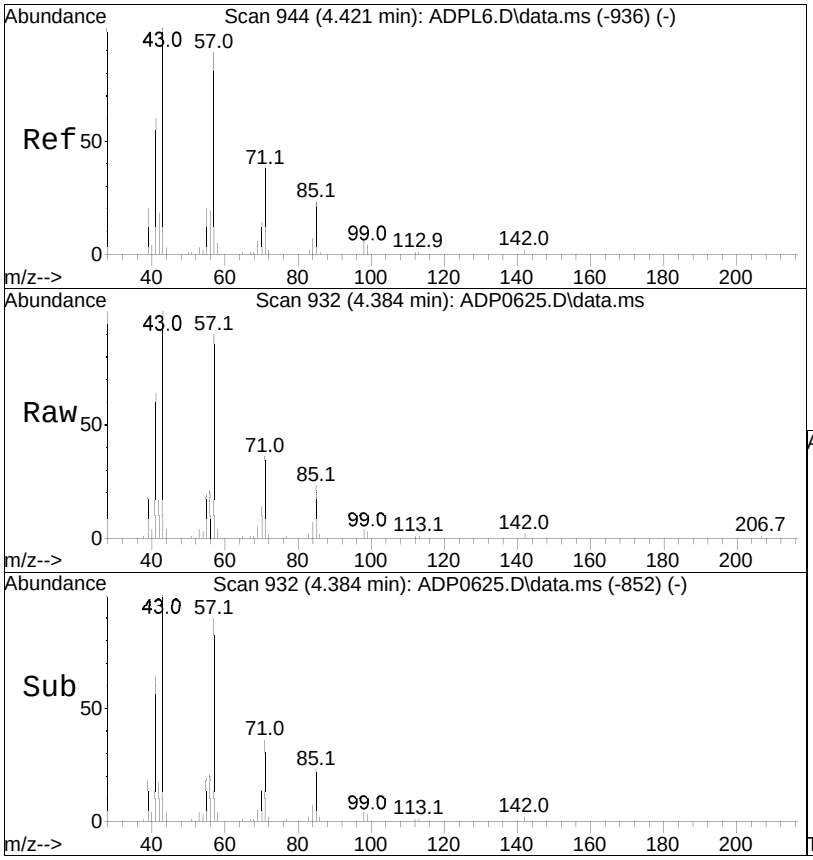


#33
1,4-Dioxane
Concen: 4.73 ug/ml
RT: 1.577 min Scan# 29
Delta R.T. 0.000 min
Lab File: ADP0625.D
Acq: 25 Jun 2024 8:05 am

Tgt Ion: 88 Resp: 15477

Ion	Ratio	Lower	Upper
88	100		
58	62.8	16.0	24.0#
43	32.3	16.0	24.0#

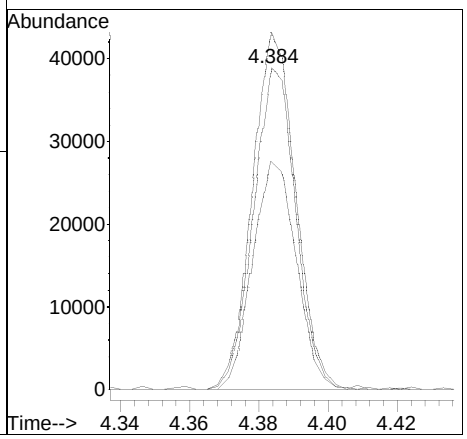


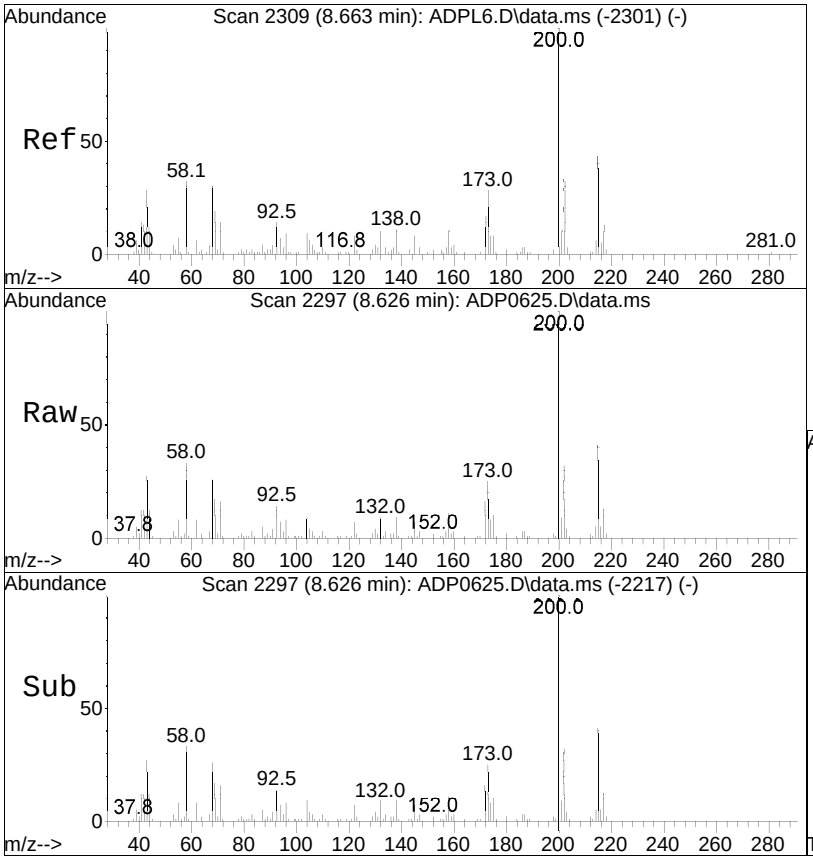


#34
n-Decane
Concen: 4.27 ug/ml
RT: 4.384 min Scan# 932
Delta R.T. 0.000 min
Lab File: ADP0625.D
Acq: 25 Jun 2024 8:05 am

Tgt Ion: 57 Resp: 32858

Ion	Ratio	Lower	Upper
57	100		
43	113.8	0.2	0.2#
41	73.4	0.2	0.2#

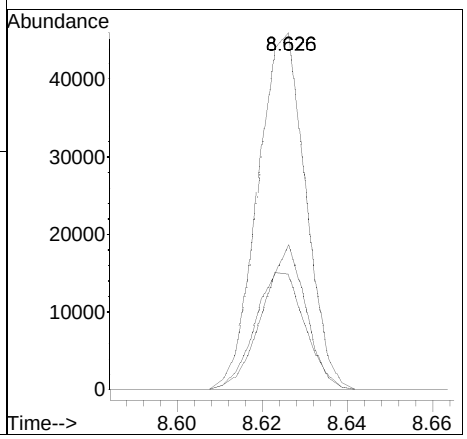


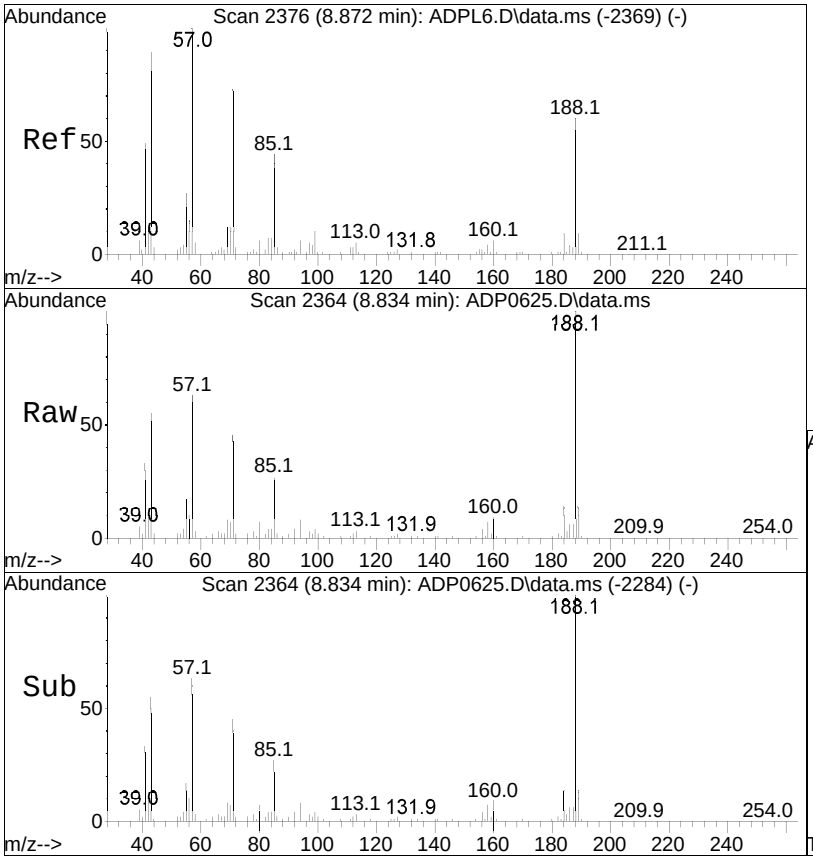


#87
Atrazine
Concen: 4.58 ug/ml
RT: 8.626 min Scan# 2297
Delta R.T. 0.000 min
Lab File: ADP0625.D
Acq: 25 Jun 2024 8:05 am

Tgt Ion:200 Resp: 35727

Ion	Ratio	Lower	Upper
200	100		
202	32.8	25.8	38.6
215	38.5	40.2	60.4#

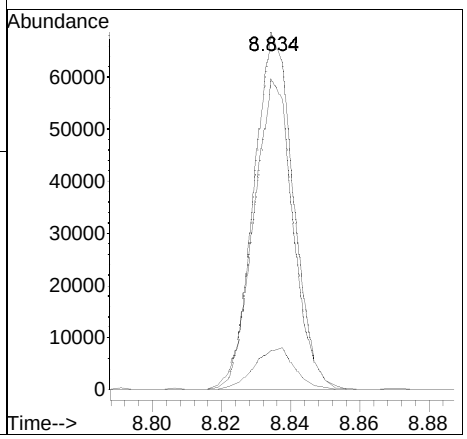


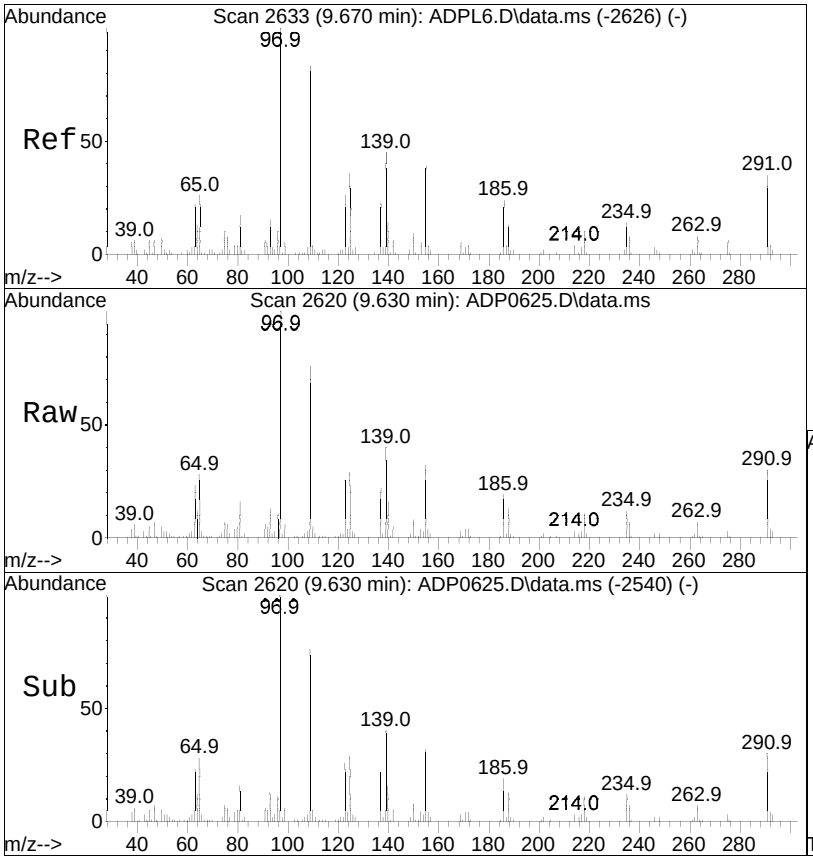


#101
n-Octadecane
Concen: 4.15 ug/ml
RT: 8.834 min Scan# 2364
Delta R.T. 0.000 min
Lab File: ADP0625.D
Acq: 25 Jun 2024 8:05 am

Tgt Ion: 57 Resp: 53948

Ion	Ratio	Lower	Upper
57	100		
43	86.4	9.0	13.6#
70	11.9	0.2	0.2#

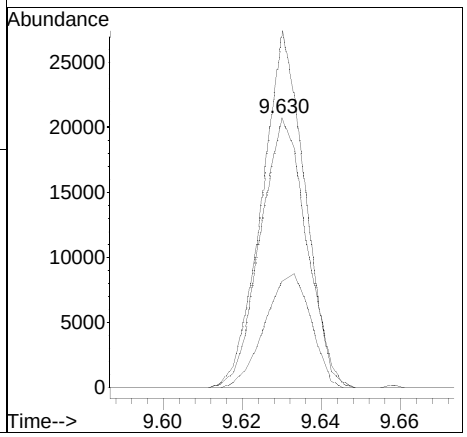


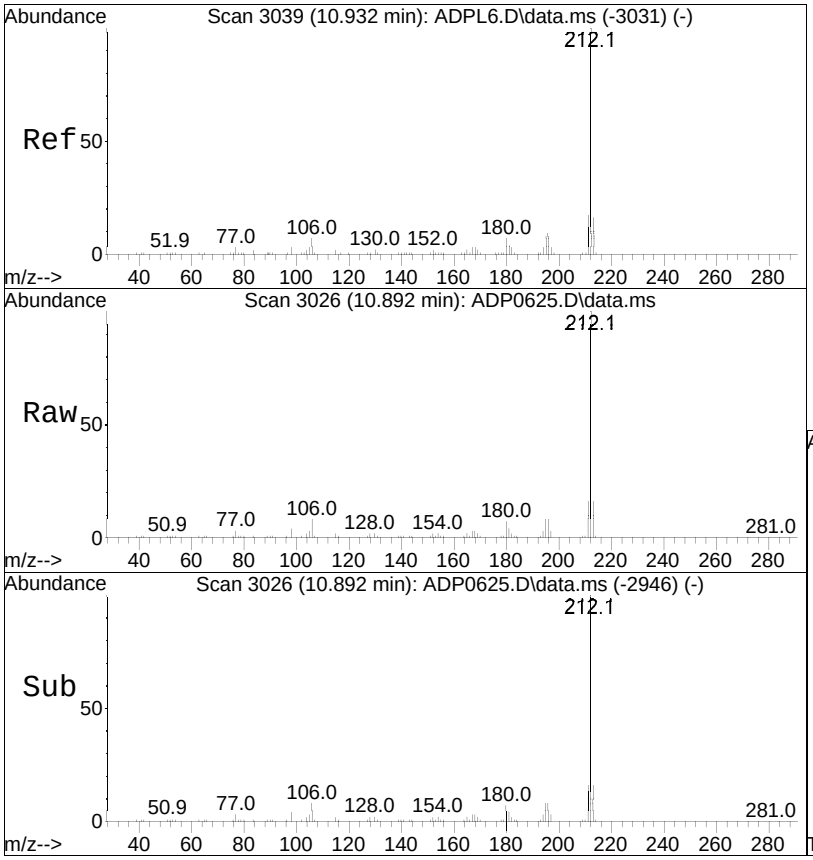


#102
Parathion
Concen: 4.33 ug/ml
RT: 9.630 min Scan# 2620
Delta R.T. 0.000 min
Lab File: ADP0625.D
Acq: 25 Jun 2024 8:05 am

Tgt Ion:109 Resp: 16670

Ion	Ratio	Lower	Upper
109	100		
97	123.3	87.4	131.2
291	42.3	34.2	51.2

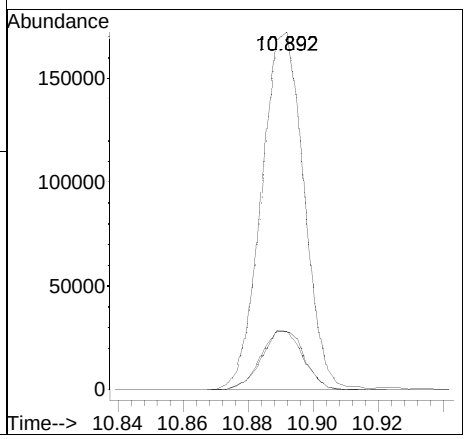




#103
3,3'-Dimethylbenzidine
Concen: 5.17 ug/ml
RT: 10.892 min Scan# 3026
Delta R.T. 0.000 min
Lab File: ADP0625.D
Acq: 25 Jun 2024 8:05 am

Tgt Ion:212 Resp: 154605

Ion	Ratio	Lower	Upper
212	100		
211	17.1	12.9	19.3
213	16.4	13.2	19.8



Manual Integration Report

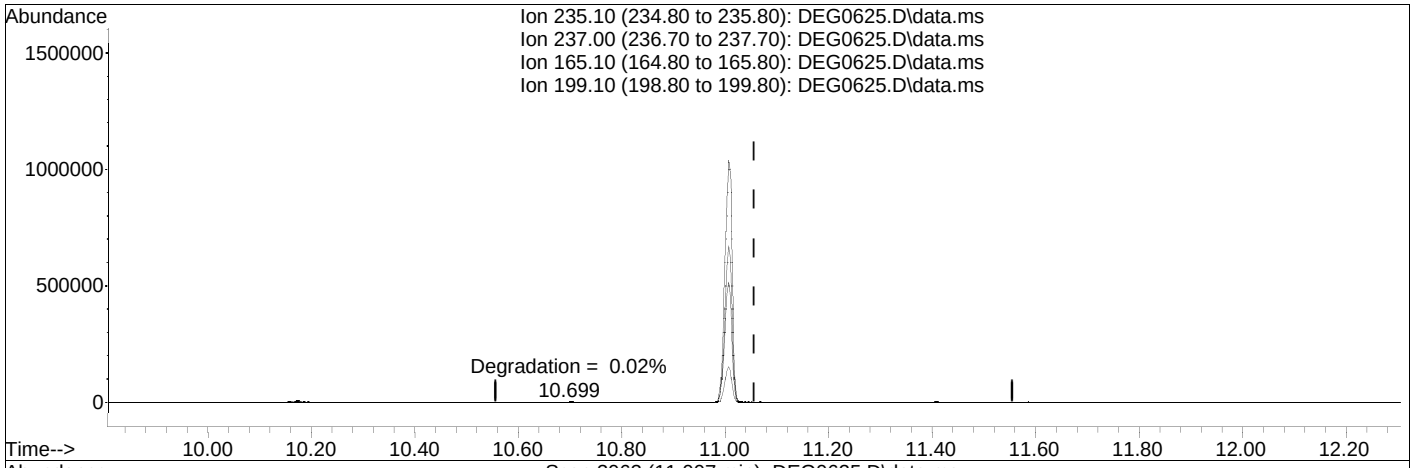
Data Path	: I:\8270\Dakota\240625RVT\	QMethod	: FS240618RVT_14D_Dakota.m
Data File	: ADP0625.D	Operator	: Dakota:ljg
Date Inj'd	: 6/25/2024 8:05 am	Instrument	: Dakota
Sample	: WG1938967-5,32,,ADP 10751	Quant Date	: 6/25/2024 8:54 am

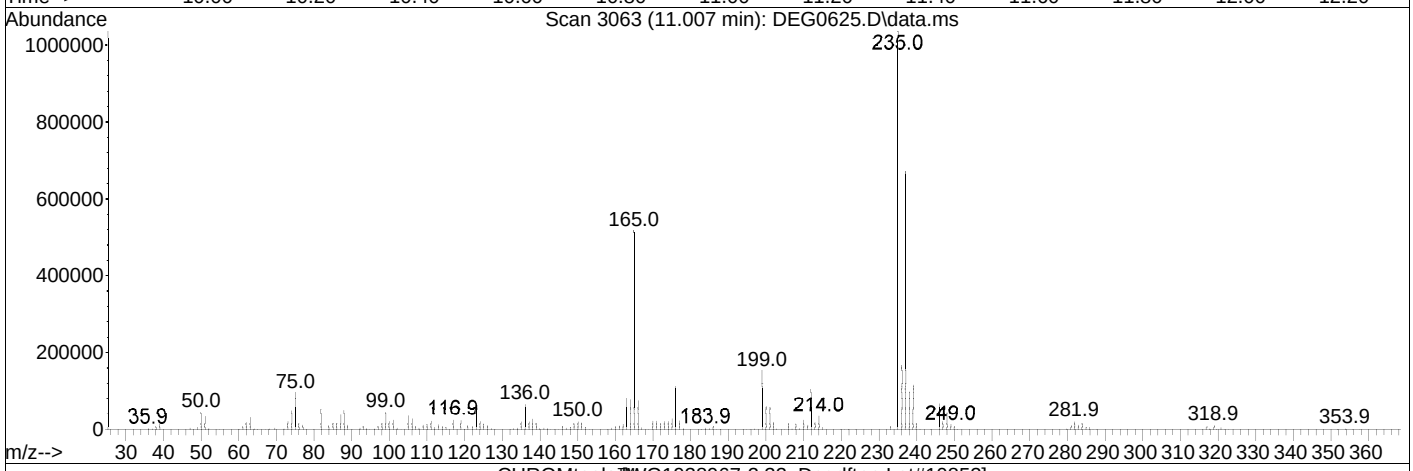
There are no manual integrations or false positives in this file.

Quantitation Report (Qedit)

Data Path : I:\8270\Dakota\240625RVT\
Data File : DEG0625.D
Acq On : 25 Jun 2024 6:57 am
Operator : Dakota:ljg
Sample : WG1938967-2,32,,Degdftpp Lot#10853
Misc : WG1938967,,ical21225
ALS Vial : 100 Sample Multiplier: 1

Quant Time: Jun 25 07:55:57 2024
Quant Method : I:\8270\Dakota\240625RVT\DftppDakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Jun 13 07:04:58 2024
Response via : Initial Calibration





CHROMtools [WG1938967-2,32,,Degdftpp Lot#10853]

(6) DDT (T)

11.007min (-0.049) 154.75

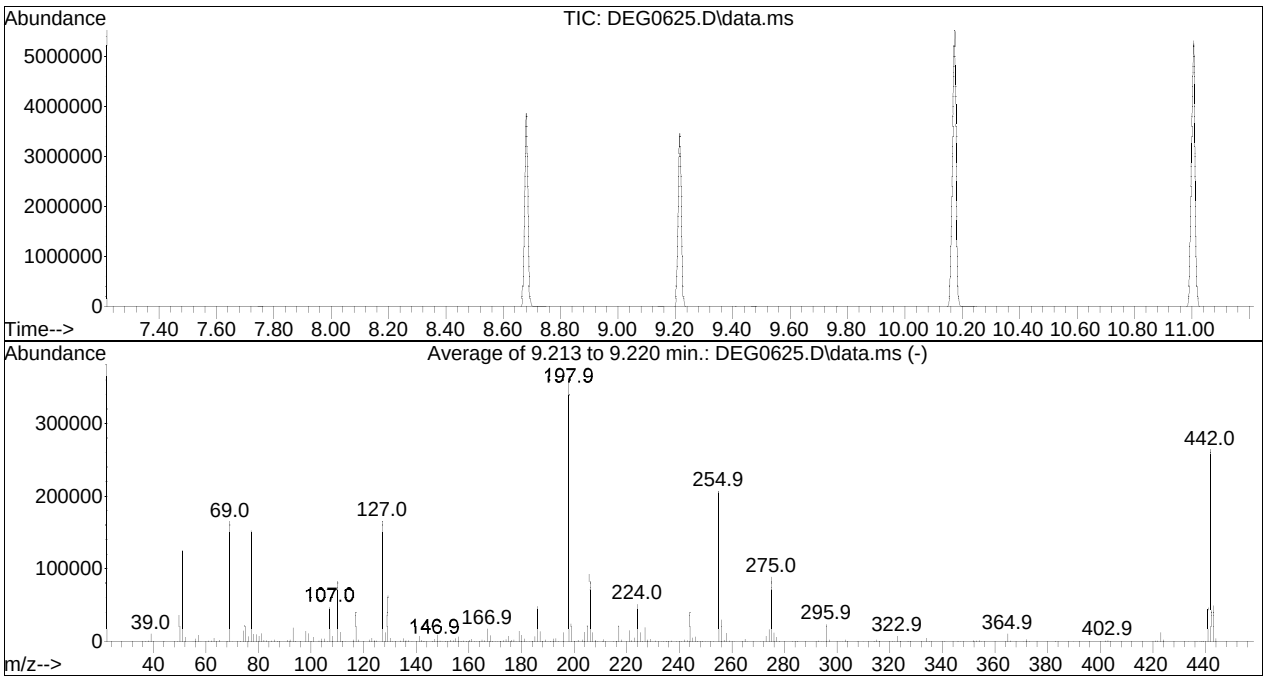
response 943300

Ion	Exp%	Act%
235.10	100.00	100.00
237.00	66.20	64.43
165.10	47.40	49.23
199.10	13.90	14.55

Data Path : I:\8270\Dakota\240625RVT\
Data File : DEG0625.D
Acq On : 25 Jun 2024 6:57 am
Operator : Dakota:gmr
Sample : WG1938967-1,32,,Degdftpp Lot#10853
Misc : WG1938967,,ical21225
ALS Vial : 100 Sample Multiplier: 1

Integration File: rteint.p

Method : I:\8270\dakota\240625RVT\FS240618RVT_14D_Dakota.m
Title : Semivolatiles by GC/MS by modified 8270
Last Update : Tue Jun 25 08:54:21 2024



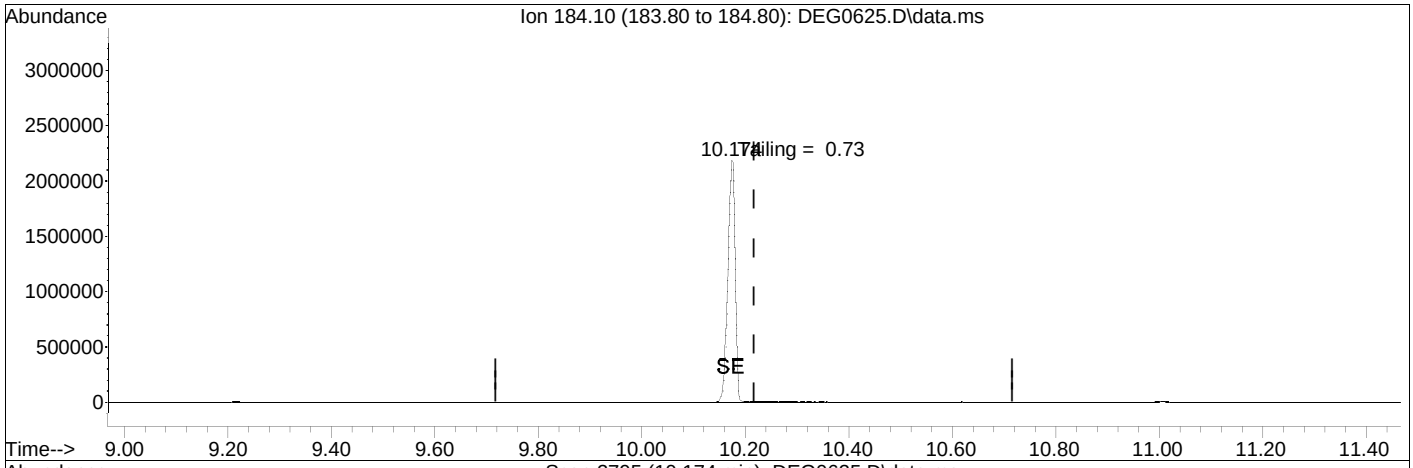
Spectrum Information: Average of 9.213 to 9.220 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	34.5	125237	PASS
68	69	0.00	2	0.6	1041	PASS
69	69	100	100	100.0	164227	PASS
70	69	0.00	2	0.3	559	PASS
127	198	10	80	45.5	165099	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	363136	PASS
199	198	5	9	6.7	24488	PASS
275	198	10	60	24.4	88496	PASS
365	198	1	100	2.9	10515	PASS
441	442	0.01	24	17.6	46493	PASS
442	198	50	100	72.6	263552	PASS
443	442	15	24	18.7	49171	PASS

Quantitation Report (Qedit)

Data Path : I:\8270\Dakota\240625RVT\
Data File : DEG0625.D
Acq On : 25 Jun 2024 6:57 am
Operator : Dakota:ljg
Sample : WG1938967-6,32,,Degdftpp Lot#10853
Misc : WG1938967,,ical21225
ALS Vial : 100 Sample Multiplier: 1

Quant Time: Jun 25 07:55:57 2024
Quant Method : I:\8270\Dakota\240625RVT\DftppDakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Jun 13 07:04:58 2024
Response via : Initial Calibration



CHROMtools [WG1938967-6,32,,Degdftpp Lot#10853]

(3) Benzidine (T)

10.174min (-0.043) 203.41

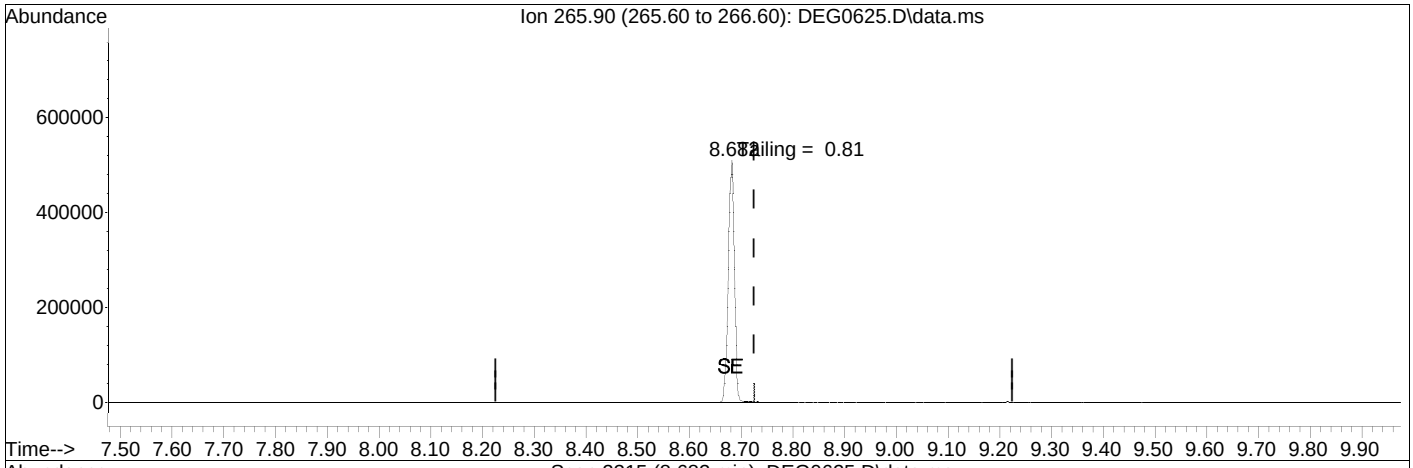
response 2070741

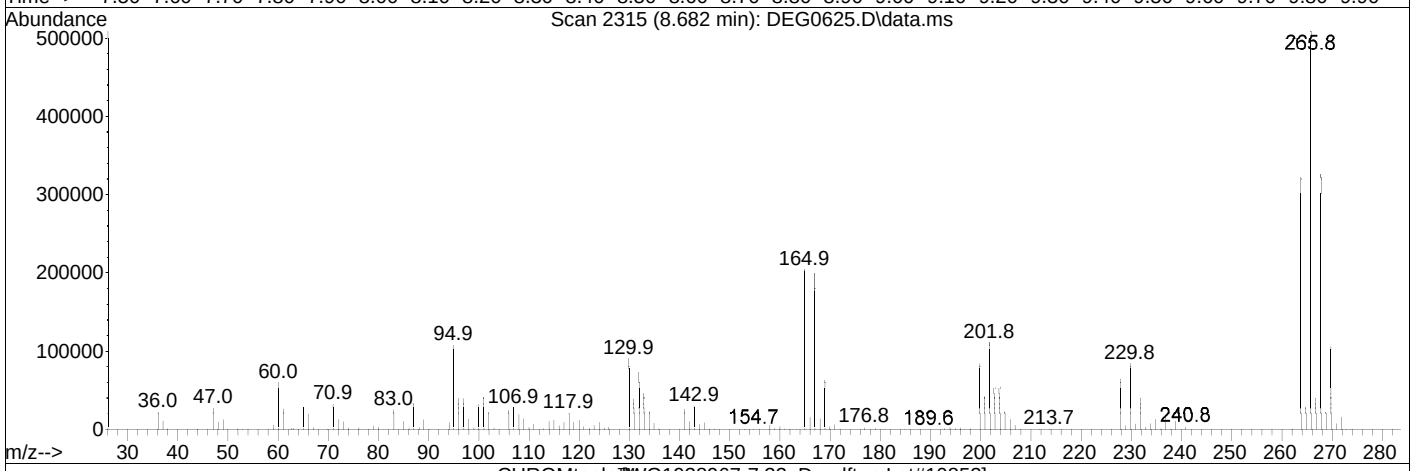
Ion	Exp%	Act%
184.10	100.00	100.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\8270\Dakota\240625RVT\
Data File : DEG0625.D
Acq On : 25 Jun 2024 6:57 am
Operator : Dakota:ljg
Sample : WG1938967-7,32,,Degdftpp Lot#10853
Misc : WG1938967,,ical21225
ALS Vial : 100 Sample Multiplier: 1

Quant Time: Jun 25 07:55:57 2024
Quant Method : I:\8270\Dakota\240625RVT\DftppDakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Jun 13 07:04:58 2024
Response via : Initial Calibration





CHROMtools [WG1938967-7,32,,Degdftpp Lot#10853]

(1) Pentachlorophenol (T)

8.682min (-0.043) 190.69

response 400511

Ion	Exp%	Act%
265.90	100.00	100.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Semivolatiles Raw QC Data

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\240624RVT\
Data File : 938279-1.D
Acq On : 24 Jun 2024 4:37 pm
Operator : Dakota:jg
Sample : WG1938279-1,32,,HNY
Misc : WG1938645,WG1938279,ical21225
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 25 20:23:26 2024
Quant Method : I:\8270\Dakota\240624RVT\FS240618RVT_14D_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Jun 25 20:11:47 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\240624RVT\ABN0624.D
: 2 - I:\8270\Dakota\240624RVT\ADP0624.D
: 3 - I:\8270\Dakota\240624RVT\AP90624.D
Sub List : 8270TCL_REV2 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) IS1_1,4-Dichlorobenzen...	4.505	152	30819	4.000	ug/ml	0.00
Standard Area 1 = 25255			Recovery = 122.03%			
27) IS2_1,4-Dichlorobenzen...	4.505	152	30819	4.000	ug/ml	0.00
Standard Area 3 = 26504			Recovery = 116.28%			
32) IS3_1,4-Dichlorobenzen...	4.505	152	30819	4.000	ug/ml	0.00
Standard Area 2 = 26042			Recovery = 118.34%			
35) IS1_Naphthalene-d8	5.739	136	108025	4.000	ug/ml	0.00
Standard Area 1 = 92102			Recovery = 117.29%			
55) IS2_Naphthalene-d8	5.739	136	108025	4.000	ug/ml	0.00
Standard Area 3 = 100155			Recovery = 107.86%			
63) IS1_Acenaphthene-d10	7.433	164	68956	4.000	ug/ml	0.00
Standard Area 1 = 69151			Recovery = 99.72%			
83) IS2_Acenaphthene-d10	7.433	164	68956	4.000	ug/ml	0.00
Standard Area 3 = 69129			Recovery = 99.75%			
86) IS3_Acenaphthene-d10	7.433	164	68956	4.000	ug/ml	0.00
Standard Area 2 = 63201			Recovery = 109.11%			
88) IS1_Phenanthrene-d10	8.856	188	161958	4.000	ug/ml	0.00
Standard Area 1 = 156078			Recovery = 103.77%			
100) IS3_Phenanthrene-d10	8.856	188	161958	4.000	ug/ml	0.00
Standard Area 2 = 157977			Recovery = 102.52%			
104) IS1_Chrysene-d12	11.458	240	164732	4.000	ug/ml	0.00
Standard Area 1 = 161664			Recovery = 101.90%			
113) IS1_Perylene-d12	12.903	264	197957	4.000	ug/ml	0.00
Standard Area 1 = 190313			Recovery = 104.02%			
System Monitoring Compounds						
4) 2-Fluorophenol	3.234	112	23112	2.919	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 145.95%#			
7) Phenol-d6	4.194	99	23923	2.393	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 119.65%#			
19) Nitrobenzene-d5	5.049	82	16664	1.597	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 159.70%#			
46) 2-Fluorobiphenyl	6.808	172	43696	1.614	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 161.40%#			
79) 2,4,6-Tribromophenol	8.194	330	15127	3.357	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 167.85%#			

Data Path : I:\8270\Dakota\240624RVT\
Data File : 938279-1.D
Acq On : 24 Jun 2024 4:37 pm
Operator : Dakota:jg
Sample : WG1938279-1,32,,HNY
Misc : WG1938645,WG1938279,ical21225
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 25 20:23:26 2024
Quant Method : I:\8270\Dakota\240624RVT\FS240618RVT_14D_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Jun 25 20:11:47 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\240624RVT\ABN0624.D
: 2 - I:\8270\Dakota\240624RVT\ADP0624.D
: 3 - I:\8270\Dakota\240624RVT\AP90624.D
Sub List : 8270TCL_REV2 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
96) 4-Terphenyl-d14	10.429	244	79332	1.884	ug/ml	0.00

Spiked Amount 1.000 Range 30 - 130 Recovery = 188.40%#

Target Compounds				Qvalue
6) 2-Chlorophenol	0.000	0	N.D.	
8) Phenol	0.000	0	N.D.	
9) Bis(2-chloroethyl)ether	0.000	0	N.D.	
14) Bis(2-chloroisopropyl)...	0.000	0	N.D.	
15) 2-Methylphenol	0.000	0	N.D.	
17) n-Nitrosodi-n-propylamine	0.000	0	N.D.	d
18) 3-Methylphenol/4-Methy...	0.000	0	N.D.	
20) Nitrobenzene	0.000	0	N.D.	
21) Isophorone	0.000	0	N.D.	
22) 2-Nitrophenol	0.000	0	N.D.	
23) 2,4-Dimethylphenol	0.000	0	N.D.	
24) Bis(2-chloroethoxy)met...	0.000	0	N.D.	
25) 2,4-Dichlorophenol	0.000	0	N.D.	
28) Benzaldehyde	0.000	0	N.D.	
29) Acetophenone	0.000	0	N.D.	
38) 4-Chloroaniline	0.000	0	N.D.	
40) p-Chloro-m-cresol	0.000	0	N.D.	
43) Hexachlorocyclopentadiene	0.000	0	N.D.	
44) 2,4,6-Trichlorophenol	0.000	0	N.D.	
45) 2,4,5-Trichlorophenol	0.000	0	N.D.	
48) 2-Nitroaniline	0.000	0	N.D.	
51) Dimethyl phthalate	0.000	0	N.D.	d
53) 2,6-Dinitrotoluene	0.000	0	N.D.	d
60) Caprolactam	0.000	0	N.D.	
61) 1,2,4,5-Tetrachloroben...	0.000	0	N.D.	
62) Biphenyl	0.000	0	N.D.	
64) 3-Nitroaniline	0.000	0	N.D.	
66) 2,4-Dinitrophenol	0.000	0	N.D.	
67) Dibenzofuran	0.000	0	N.D.	
68) 2,4-Dinitrotoluene	0.000	0	N.D.	d
69) 4-Nitrophenol	0.000	0	N.D.	
71) 2,3,4,6-Tetrachlorophenol	0.000	0	N.D.	
72) Diethyl phthalate	0.000	0	N.D.	

Data Path : I:\8270\Dakota\240624RVT\
Data File : 938279-1.D
Acq On : 24 Jun 2024 4:37 pm
Operator : Dakota:jg
Sample : WG1938279-1,32,,HNY
Misc : WG1938645,WG1938279,ical21225
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 25 20:23:26 2024
Quant Method : I:\8270\Dakota\240624RVT\FS240618RVT_14D_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Jun 25 20:11:47 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\240624RVT\ABN0624.D
: 2 - I:\8270\Dakota\240624RVT\ADP0624.D
: 3 - I:\8270\Dakota\240624RVT\AP90624.D
Sub List : 8270TCL_REV2 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
74) 4-Chlorophenyl phenyl ...	0.000		0		N.D.	
75) 4-Nitroaniline	0.000		0		N.D.	
76) 4,6-Dinitro-o-cresol	0.000		0		N.D.	
77) NDPA/DPA	0.000		0		N.D.	
80) 4-Bromophenyl phenyl e...	0.000		0		N.D.	
87) Atrazine	0.000		0		N.D.	
91) Carbazole	0.000		0		N.D.	
92) Di-n-butylphthalate	0.000		0		N.D.	d
97) Butyl benzyl phthalate	0.000		0		N.D.	
106) 3,3'-Dichlorobenzidine	0.000		0		N.D.	
108) Bis(2-ethylhexyl)phtha...	0.000		0		N.D.	d
109) Di-n-octylphthalate	0.000		0		N.D.	d

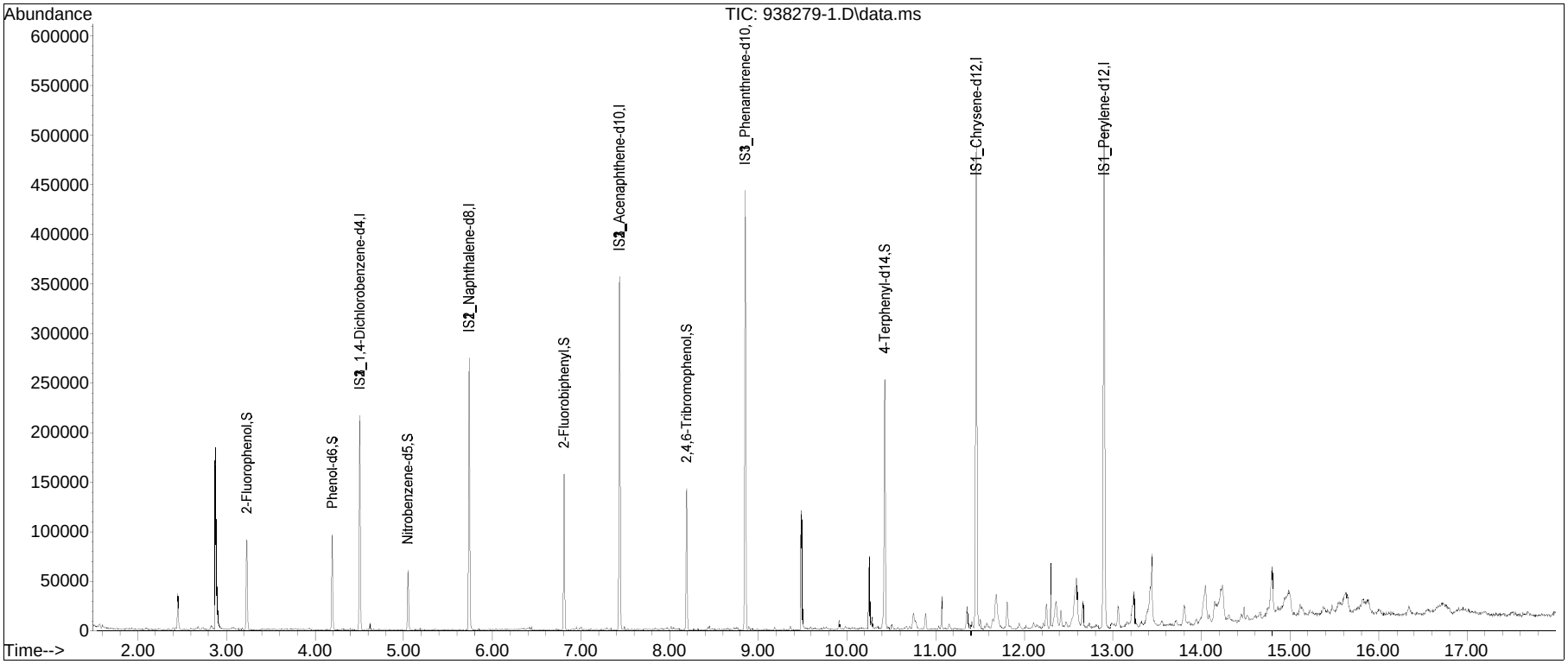
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\240624RVT\
Data File : 938279-1.D
Acq On : 24 Jun 2024 4:37 pm
Operator : Dakota:jg
Sample : WG1938279-1,32,,HNY
Misc : WG1938645,WG1938279,ical21225
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 25 20:23:26 2024
Quant Method : I:\8270\Dakota\240624RVT\FS240618RVT_14D_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Jun 25 20:11:47 2024
Response via : Initial Calibration

Sub List : 8270TCL_REV2 - TCL/CT/MA4RVT\AP90624.D•



Manual Integration Report

Data Path	: I:\8270\Dakota\240624RVT\	QMethod	: FS240618RVT_14D_Dakota.m
Data File	: 938279-1.D	Operator	: Dakota:jg
Date Inj'd	: 6/24/2024 4:37 pm	Instrument	: Dakota
Sample	: WG1938279-1,32,,HNY	Quant Date	: 6/25/2024 8:13 pm

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\240625RVT\
Data File : 938723-1.D
Acq On : 25 Jun 2024 10:18 am
Operator : Dakota:ljg
Sample : WG1938723-1,32,,gmr
Misc : WG1938967,WG1938723,ical21225
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 26 08:51:41 2024
Quant Method : I:\8270\dakota\240625RVT\FS240618RVT_14D_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Jun 25 10:36:42 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\dakota\240625RVT\ABN0625.D
: 2 - I:\8270\dakota\240625RVT\ADP0625.D
: 3 - I:\8270\dakota\240625RVT\AP90625.D
Sub List : 8270TCL_REV2 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) IS1_1,4-Dichlorobenzen...	4.486	152	30197	4.000	ug/ml	0.00
Standard Area 1 = 26257			Recovery = 115.01%			
27) IS2_1,4-Dichlorobenzen...	4.486	152	30197	4.000	ug/ml	0.00
Standard Area 3 = 27010			Recovery = 111.80%			
32) IS3_1,4-Dichlorobenzen...	4.486	152	30197	4.000	ug/ml	0.00
Standard Area 2 = 29091			Recovery = 103.80%			
35) IS1_Naphthalene-d8	5.720	136	104481	4.000	ug/ml	0.00
Standard Area 1 = 95039			Recovery = 109.93%			
55) IS2_Naphthalene-d8	5.720	136	104481	4.000	ug/ml	0.00
Standard Area 3 = 101426			Recovery = 103.01%			
63) IS1_Acenaphthene-d10	7.417	164	68306	4.000	ug/ml	0.00
Standard Area 1 = 67008			Recovery = 101.94%			
83) IS2_Acenaphthene-d10	7.417	164	68306	4.000	ug/ml	0.00
Standard Area 3 = 69385			Recovery = 98.44%			
86) IS3_Acenaphthene-d10	7.417	164	68306	4.000	ug/ml	0.00
Standard Area 2 = 69313			Recovery = 98.55%			
88) IS1_Phenanthrene-d10	8.841	188	171920	4.000	ug/ml	0.00
Standard Area 1 = 156879			Recovery = 109.59%			
100) IS3_Phenanthrene-d10	8.841	188	171920	4.000	ug/ml	0.00
Standard Area 2 = 162640			Recovery = 105.71%			
104) IS1_Chrysene-d12	11.436	240	181780	4.000	ug/ml	0.00
Standard Area 1 = 168902			Recovery = 107.62%			
113) IS1_Perylene-d12	12.881	264	216716	4.000	ug/ml	0.00
Standard Area 1 = 203294			Recovery = 106.60%			
System Monitoring Compounds						
4) 2-Fluorophenol	3.212	112	18250	2.352	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 117.60%#			
7) Phenol-d6	4.175	99	18734	1.913	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 95.65%			
19) Nitrobenzene-d5	5.030	82	14892	1.457	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 145.70%#			
46) 2-Fluorobiphenyl	6.792	172	39791	1.519	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 151.90%#			
79) 2,4,6-Tribromophenol	8.179	330	14292	3.201	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 160.05%#			

Data Path : I:\8270\Dakota\240625RVT\
Data File : 938723-1.D
Acq On : 25 Jun 2024 10:18 am
Operator : Dakota:ljg
Sample : WG1938723-1,32,,gmr
Misc : WG1938967,WG1938723,ical21225
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 26 08:51:41 2024
Quant Method : I:\8270\dakota\240625RVT\FS240618RVT_14D_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Jun 25 10:36:42 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\dakota\240625RVT\ABN0625.D
: 2 - I:\8270\dakota\240625RVT\ADP0625.D
: 3 - I:\8270\dakota\240625RVT\AP90625.D
Sub List : 8270TCL_REV2 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
96) 4-Terphenyl-d14	10.410	244	71291	1.595	ug/ml	0.00

Spiked Amount 1.000 Range 30 - 130 Recovery = 159.50%#

Target Compounds				Qvalue
6) 2-Chlorophenol	0.000	0	N.D.	
8) Phenol	0.000	0	N.D.	
9) Bis(2-chloroethyl)ether	0.000	0	N.D.	
14) Bis(2-chloroisopropyl)...	0.000	0	N.D.	
15) 2-Methylphenol	0.000	0	N.D.	
17) n-Nitrosodi-n-propylamine	0.000	0	N.D.	d
18) 3-Methylphenol/4-Methy...	0.000	0	N.D.	
20) Nitrobenzene	0.000	0	N.D.	
21) Isophorone	0.000	0	N.D.	
22) 2-Nitrophenol	0.000	0	N.D.	
23) 2,4-Dimethylphenol	0.000	0	N.D.	
24) Bis(2-chloroethoxy)met...	0.000	0	N.D.	
25) 2,4-Dichlorophenol	0.000	0	N.D.	
28) Benzaldehyde	0.000	0	N.D.	
29) Acetophenone	0.000	0	N.D.	
38) 4-Chloroaniline	0.000	0	N.D.	
40) p-Chloro-m-cresol	0.000	0	N.D.	
43) Hexachlorocyclopentadiene	0.000	0	N.D.	
44) 2,4,6-Trichlorophenol	0.000	0	N.D.	
45) 2,4,5-Trichlorophenol	0.000	0	N.D.	
48) 2-Nitroaniline	0.000	0	N.D.	
51) Dimethyl phthalate	0.000	0	N.D.	d
53) 2,6-Dinitrotoluene	0.000	0	N.D.	d
60) Caprolactam	0.000	0	N.D.	
61) 1,2,4,5-Tetrachloroben...	0.000	0	N.D.	
62) Biphenyl	0.000	0	N.D.	
64) 3-Nitroaniline	0.000	0	N.D.	
66) 2,4-Dinitrophenol	0.000	0	N.D.	
67) Dibenzofuran	0.000	0	N.D.	
68) 2,4-Dinitrotoluene	0.000	0	N.D.	d
69) 4-Nitrophenol	0.000	0	N.D.	
71) 2,3,4,6-Tetrachlorophenol	0.000	0	N.D.	
72) Diethyl phthalate	0.000	0	N.D.	

Data Path : I:\8270\Dakota\240625RVT\
Data File : 938723-1.D
Acq On : 25 Jun 2024 10:18 am
Operator : Dakota:ljg
Sample : WG1938723-1,32,,gmr
Misc : WG1938967,WG1938723,ical21225
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 26 08:51:41 2024
Quant Method : I:\8270\dakota\240625RVT\FS240618RVT_14D_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Jun 25 10:36:42 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\dakota\240625RVT\ABN0625.D
: 2 - I:\8270\dakota\240625RVT\ADP0625.D
: 3 - I:\8270\dakota\240625RVT\AP90625.D
Sub List : 8270TCL_REV2 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
74) 4-Chlorophenyl phenyl ...	0.000		0	N.D.		
75) 4-Nitroaniline	0.000		0	N.D.		
76) 4,6-Dinitro-o-cresol	0.000		0	N.D.		
77) NDPA/DPA	0.000		0	N.D.		
80) 4-Bromophenyl phenyl e...	0.000		0	N.D.		
87) Atrazine	0.000		0	N.D.		
91) Carbazole	0.000		0	N.D.		
92) Di-n-butylphthalate	0.000		0	N.D.		
97) Butyl benzyl phthalate	0.000		0	N.D.		
106) 3,3'-Dichlorobenzidine	0.000		0	N.D.		
108) Bis(2-ethylhexyl)phtha...	0.000		0	N.D.	d	
109) Di-n-octylphthalate	0.000		0	N.D.	d	

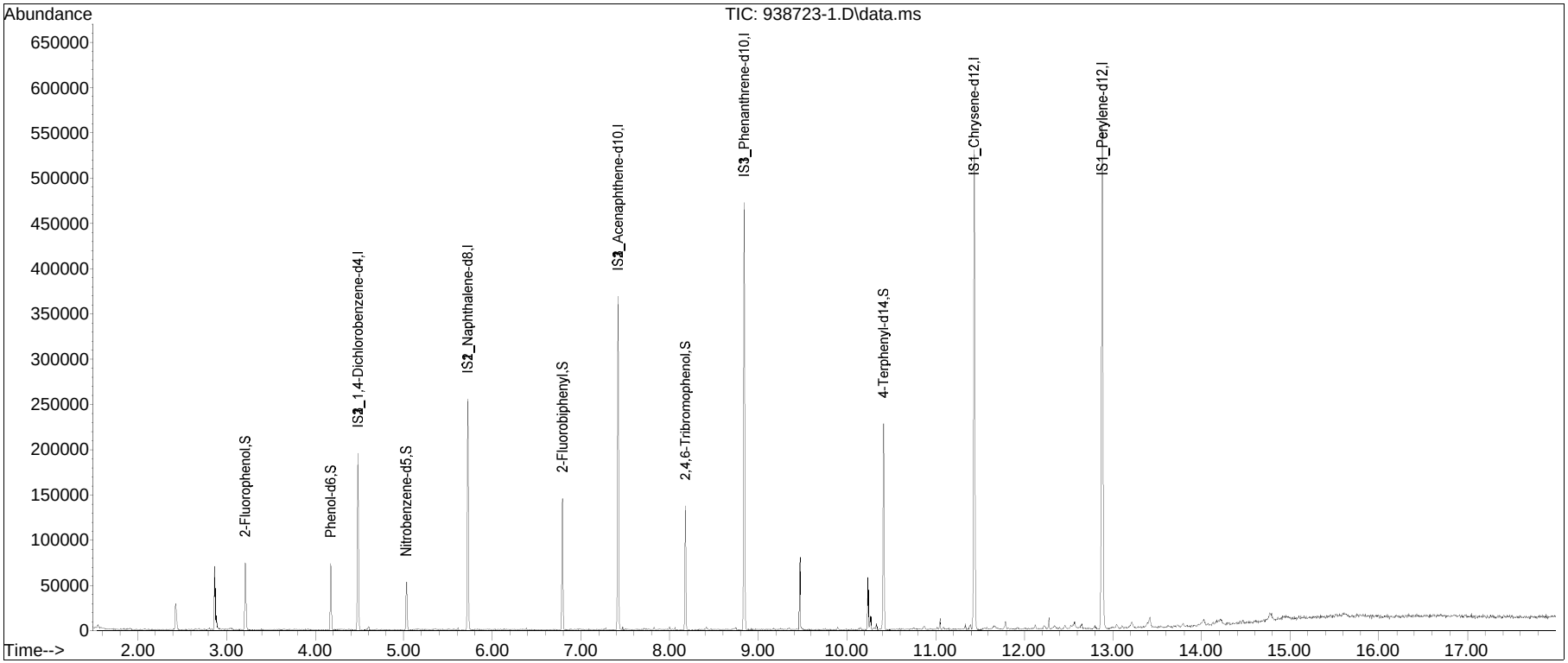
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\240625RVT\
Data File : 938723-1.D
Acq On : 25 Jun 2024 10:18 am
Operator : Dakota:ljg
Sample : WG1938723-1,32,,gmr
Misc : WG1938967,WG1938723,ical21225
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 26 08:51:41 2024
Quant Method : I:\8270\dakota\240625RVT\FS240618RVT_14D_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Jun 25 10:36:42 2024
Response via : Initial Calibration

Sub List : 8270TCL_REV2 - TCL/CT/MA5RVT\AP90625.D•



Manual Integration Report

Data Path	: I:\8270\Dakota\240625RVT\	QMethod	: FS240618RVT_14D_Dakota.m
Data File	: 938723-1.D	Operator	: Dakota:ljg
Date Inj'd	: 6/25/2024 10:18 am	Instrument	: Dakota
Sample	: WG1938723-1,32,,gmr	Quant Date	: 6/25/2024 10:36 am

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\240624RVT\
Data File : 938279-2.D
Acq On : 24 Jun 2024 5:00 pm
Operator : Dakota:jg
Sample : WG1938279-2,32,,HNY
Misc : WG1938645,WG1938279,ical21225
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 25 20:12:52 2024
Quant Method : I:\8270\Dakota\240624RVT\FS240618RVT_14D_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Jun 25 20:11:47 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\240624RVT\ABN0624.D
: 2 - I:\8270\Dakota\240624RVT\ADP0624.D
: 3 - I:\8270\Dakota\240624RVT\AP90624.D
Sub List : 8270TCL_REV2 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) IS1_1,4-Dichlorobenzen...	4.505	152	29398	4.000	ug/ml	0.00
Standard Area 1 = 25255			Recovery = 116.40%			
27) IS2_1,4-Dichlorobenzen...	4.505	152	29398	4.000	ug/ml	0.00
Standard Area 3 = 26504			Recovery = 110.92%			
32) IS3_1,4-Dichlorobenzen...	4.505	152	29398	4.000	ug/ml	0.00
Standard Area 2 = 26042			Recovery = 112.89%			
35) IS1_Naphthalene-d8	5.739	136	104560	4.000	ug/ml	0.00
Standard Area 1 = 92102			Recovery = 113.53%			
55) IS2_Naphthalene-d8	5.739	136	104560	4.000	ug/ml	0.00
Standard Area 3 = 100155			Recovery = 104.40%			
63) IS1_Acenaphthene-d10	7.436	164	68879	4.000	ug/ml	0.00
Standard Area 1 = 69151			Recovery = 99.61%			
83) IS2_Acenaphthene-d10	7.436	164	68879	4.000	ug/ml	0.00
Standard Area 3 = 69129			Recovery = 99.64%			
86) IS3_Acenaphthene-d10	7.436	164	68879	4.000	ug/ml	0.00
Standard Area 2 = 63201			Recovery = 108.98%			
88) IS1_Phenanthrene-d10	8.856	188	153748	4.000	ug/ml	0.00
Standard Area 1 = 156078			Recovery = 98.51%			
100) IS3_Phenanthrene-d10	8.856	188	153748	4.000	ug/ml	0.00
Standard Area 2 = 157977			Recovery = 97.32%			
104) IS1_Chrysene-d12	11.458	240	149750	4.000	ug/ml	0.00
Standard Area 1 = 161664			Recovery = 92.63%			
113) IS1_Perylene-d12	12.903	264	181092	4.000	ug/ml	0.00
Standard Area 1 = 190313			Recovery = 95.15%			
System Monitoring Compounds						
4) 2-Fluorophenol	3.234	112	23138	3.063	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 153.15%#			
7) Phenol-d6	4.194	99	25579	2.683	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 134.15%#			
19) Nitrobenzene-d5	5.049	82	15222	1.529	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 152.90%#			
46) 2-Fluorobiphenyl	6.808	172	41534	1.585	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 158.50%#			
79) 2,4,6-Tribromophenol	8.194	330	15442	3.430	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 171.50%#			

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\240624RVT\
Data File : 938279-2.D
Acq On : 24 Jun 2024 5:00 pm
Operator : Dakota:jg
Sample : WG1938279-2,32,,HNY
Misc : WG1938645,WG1938279,ical21225
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 25 20:12:52 2024
Quant Method : I:\8270\Dakota\240624RVT\FS240618RVT_14D_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Jun 25 20:11:47 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\240624RVT\ABN0624.D
: 2 - I:\8270\Dakota\240624RVT\ADP0624.D
: 3 - I:\8270\Dakota\240624RVT\AP90624.D
Sub List : 8270TCL_REV2 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
96) 4-Terphenyl-d14	10.429	244	66099	1.653	ug/ml	0.00

Spiked Amount 1.000 Range 30 - 130 Recovery = 165.30%#

Target Compounds						Qvalue
6) 2-Chlorophenol	4.300	128	27315	3.231	ug/ml	89
8) Phenol	4.203	94	29223	2.630	ug/ml	91
9) Bis(2-chloroethyl)ether	4.272	93	22376	3.072	ug/ml	92
14) Bis(2-chloroisopropyl)...	4.803	45	30704	2.826	ug/ml#	38
15) 2-Methylphenol	4.797	108	23438	3.070	ug/ml	96
17) n-Nitrosodi-n-propylamine	4.931	70	19556	2.917	ug/ml#	87
18) 3-Methylphenol/4-Methy...	4.949	108	26199	3.254	ug/ml	99
20) Nitrobenzene	5.067	77	29006	3.041	ug/ml	91
21) Isophorone	5.307	82	51673	3.090	ug/ml#	93
22) 2-Nitrophenol	5.381	139	14061	2.971	ug/ml	93
23) 2,4-Dimethylphenol	5.462	107	22307	2.768	ug/ml	95
24) Bis(2-chloroethoxy)met...	5.546	93	31905	3.104	ug/ml#	95
25) 2,4-Dichlorophenol	5.618	162	30241	3.325	ug/ml#	91
28) Benzaldehyde	4.070	105	21777	2.860	ug/ml	99
29) Acetophenone	4.909	105	37473	2.878	ug/ml#	78
38) 4-Chloroaniline	5.832	65	9646	2.907	ug/ml	95
40) p-Chloro-m-cresol	6.332	107	25786	3.391	ug/ml	94
43) Hexachlorocyclopentadiene	6.609	237	20206	2.665	ug/ml	100
44) 2,4,6-Trichlorophenol	6.724	196	25004	3.231	ug/ml	99
45) 2,4,5-Trichlorophenol	6.752	196	28715	3.472	ug/ml	99
48) 2-Nitroaniline	7.013	138	18637	3.221	ug/ml	83
51) Dimethyl phthalate	7.215	163	80844	2.996	ug/ml#	97
53) 2,6-Dinitrotoluene	7.256	165	16789	3.151	ug/ml#	79
60) Caprolactam	6.127	55	5322	1.522	ug/ml#	62
61) 1,2,4,5-Tetrachloroben...	6.606	216	37042	2.837	ug/ml#	94
62) Biphenyl	6.895	154	78127	2.796	ug/ml	96
64) 3-Nitroaniline	7.408	138	16032	3.137	ug/ml#	93
66) 2,4-Dinitrophenol	7.507	184	10474	2.966	ug/ml#	83
67) Dibenzofuran	7.635	168	104243	3.181	ug/ml	89
68) 2,4-Dinitrotoluene	7.641	165	23407	3.363	ug/ml	92
69) 4-Nitrophenol	7.601	65	13575	3.171	ug/ml#	86
71) 2,3,4,6-Tetrachlorophenol	7.765	232	24564	3.559	ug/ml	99
72) Diethyl phthalate	7.902	149	82867	3.119	ug/ml	99

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\240624RVT\
Data File : 938279-2.D
Acq On : 24 Jun 2024 5:00 pm
Operator : Dakota:jg
Sample : WG1938279-2,32,,HNY
Misc : WG1938645,WG1938279,ical21225
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 25 20:12:52 2024
Quant Method : I:\8270\Dakota\240624RVT\FS240618RVT_14D_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Jun 25 20:11:47 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\240624RVT\ABN0624.D
: 2 - I:\8270\Dakota\240624RVT\ADP0624.D
: 3 - I:\8270\Dakota\240624RVT\AP90624.D
Sub List : 8270TCL_REV2 - TCL/CT/MA

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
74)	4-Chlorophenyl phenyl ...	7.983	204	40327	3.175	ug/ml#	83
75)	4-Nitroaniline	7.992	138	14816	2.943	ug/ml#	81
76)	4,6-Dinitro-o-cresol	8.029	198	14564	3.317	ug/ml#	57
77)	NDPA/DPA	8.101	169	69895	3.265	ug/ml	93
80)	4-Bromophenyl phenyl e...	8.449	248	26569	3.144	ug/ml#	79
87)	Atrazine	8.639	200	22504	2.904	ug/ml	90
91)	Carbazole	9.096	167	128717	3.389	ug/ml	99
92)	Di-n-butylphthalate	9.493	149	142706	3.273	ug/ml	98
97)	Butyl benzyl phthalate	10.948	149	66321	3.385	ug/ml	85
106)	3,3'-Dichlorobenzidine	11.455	252	58419	3.152	ug/ml#	96
108)	Bis(2-ethylhexyl)phtha...	11.582	149	98725	3.515	ug/ml#	90
109)	Di-n-octylphthalate	12.250	149	164239	3.507	ug/ml#	71

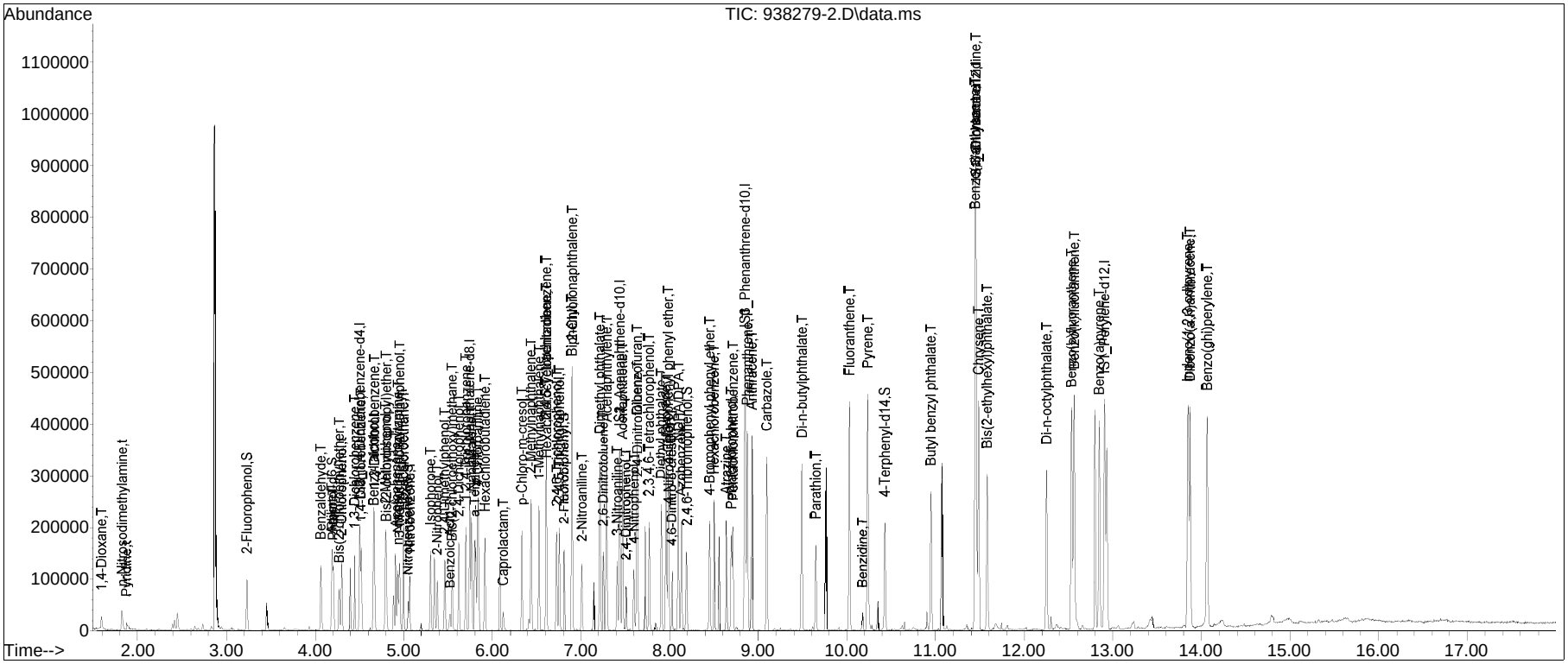
(#) = qualifier out of range (m) = manual integration (+) = signals summed

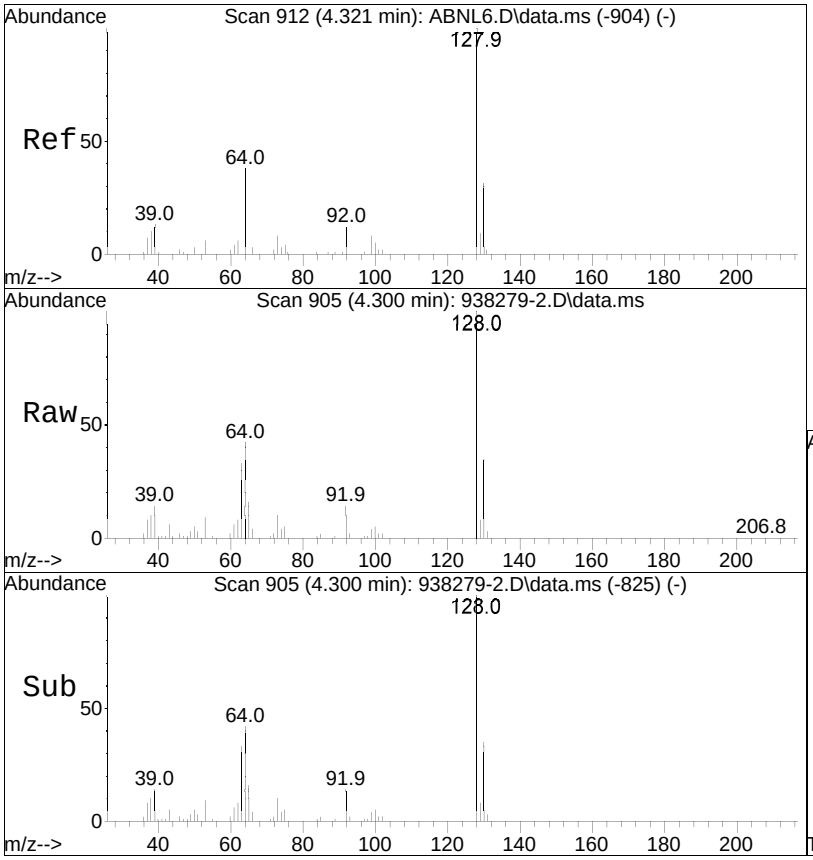
Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\240624RVT\
Data File : 938279-2.D
Acq On : 24 Jun 2024 5:00 pm
Operator : Dakota:jg
Sample : WG1938279-2,32,,HNY
Misc : WG1938645,WG1938279,ical21225
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 25 20:12:52 2024
Quant Method : I:\8270\Dakota\240624RVT\FS240618RVT_14D_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Jun 25 20:11:47 2024
Response via : Initial Calibration

Sub List : 8270TCL_REV2 - TCL/CT/MA4RVT\AP90624.D•

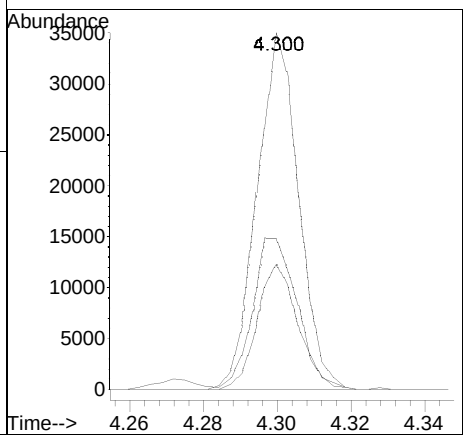


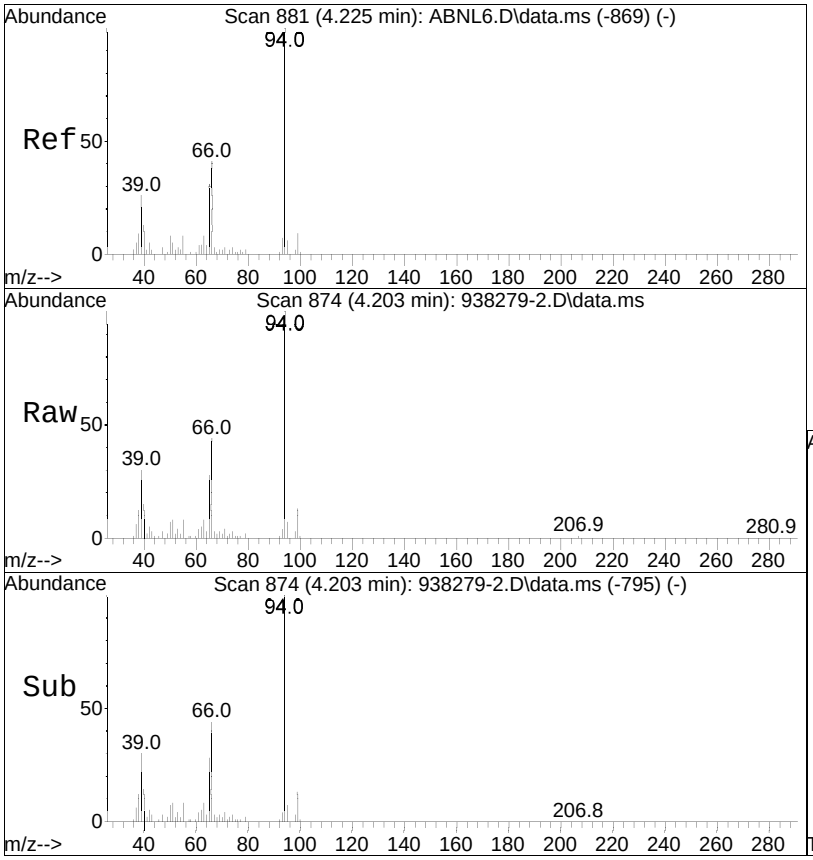


#6
2-Chlorophenol
Concen: 3.23 ug/ml
RT: 4.300 min Scan# 905
Delta R.T. 0.000 min
Lab File: 938279-2.D
Acq: 24 Jun 2024 5:00 pm

Tgt Ion:128 Resp: 27315

Ion	Ratio	Lower	Upper
128	100		
64	45.2	45.1	67.7
130	34.8	26.2	39.4

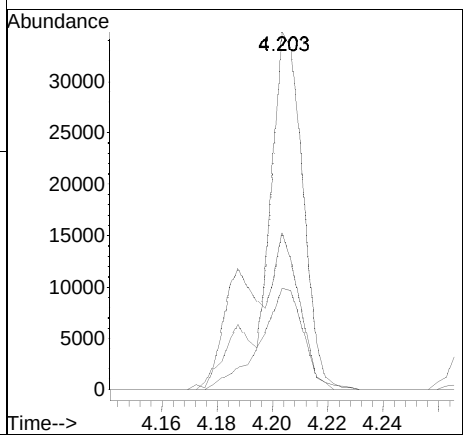


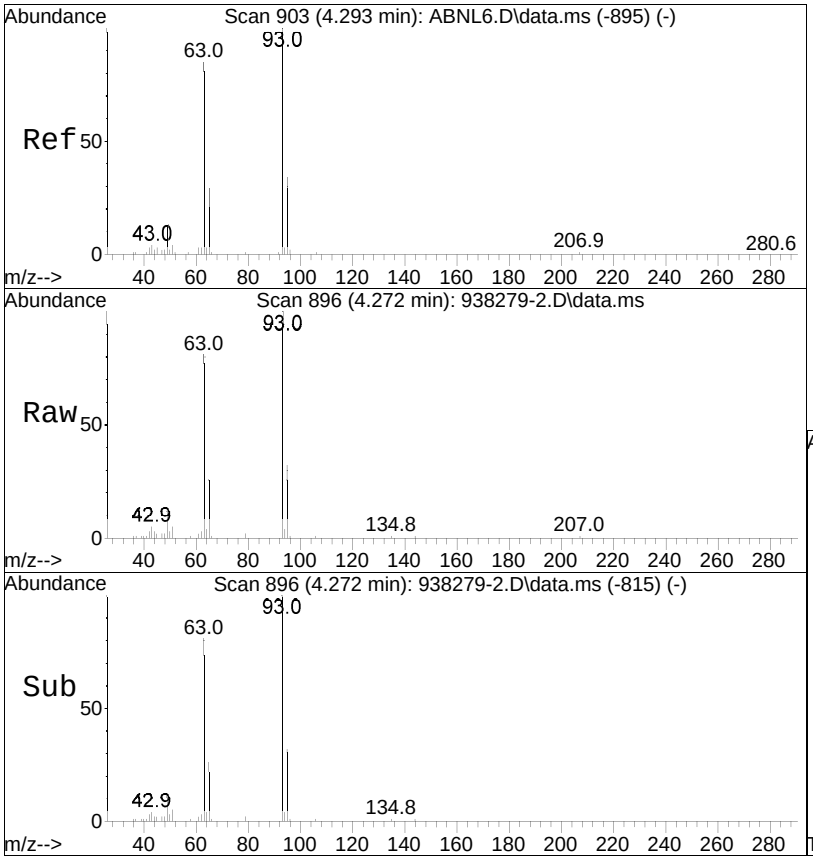


#8
Phenol
Concen: 2.63 ug/ml
RT: 4.203 min Scan# 874
Delta R.T. -0.003 min
Lab File: 938279-2.D
Acq: 24 Jun 2024 5:00 pm

Tgt Ion: 94 Resp: 29223

Ion	Ratio	Lower	Upper
94	100		
65	29.0	26.0	39.0
66	35.0	33.8	50.8

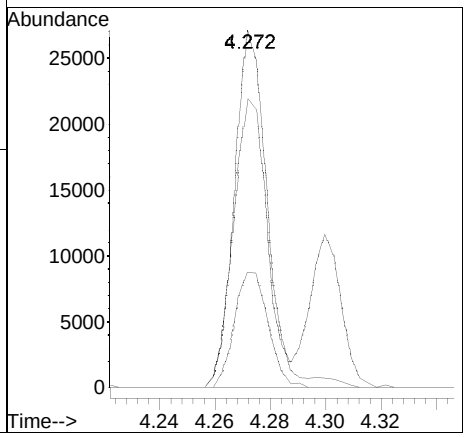


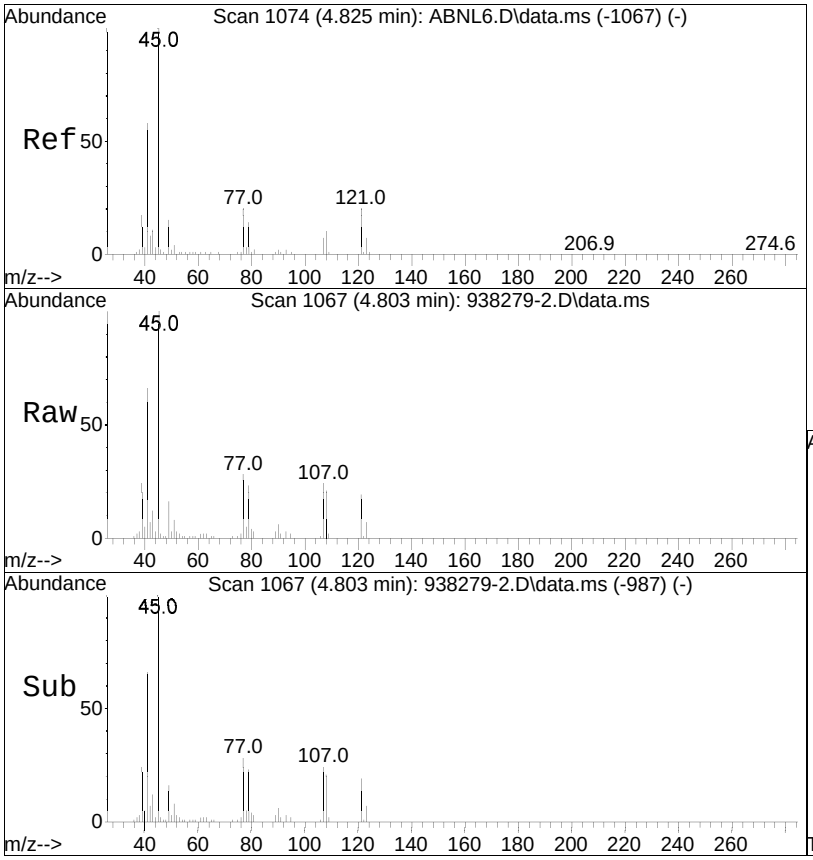


#9
Bis(2-chloroethyl)ether
Concen: 3.07 ug/ml
RT: 4.272 min Scan# 896
Delta R.T. 0.000 min
Lab File: 938279-2.D
Acq: 24 Jun 2024 5:00 pm

Tgt Ion: 93 Resp: 22376

Ion	Ratio	Lower	Upper
93	100		
63	83.1	74.6	111.8
95	33.1	25.9	38.9

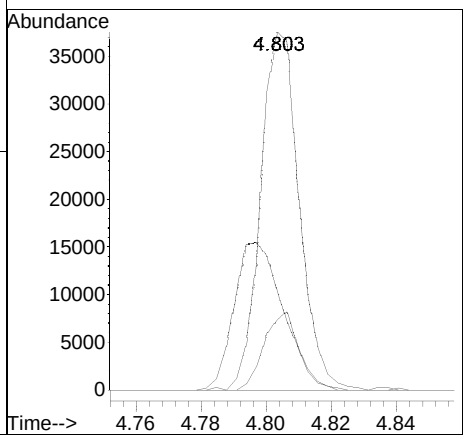


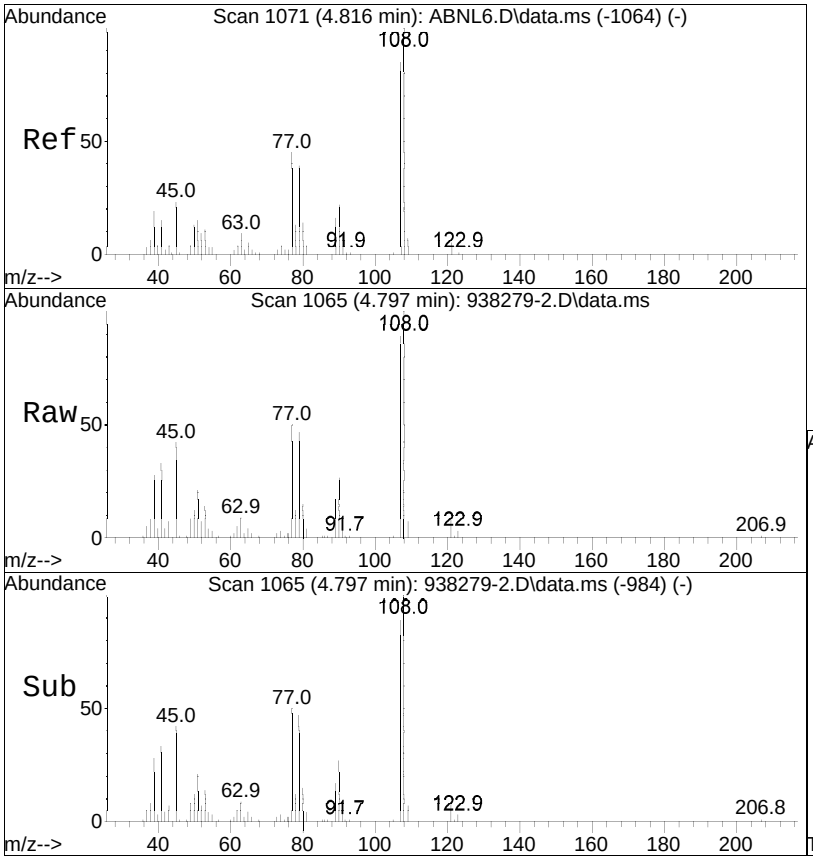


#14
Bis(2-chloroisopropyl)ether
Concen: 2.83 ug/ml
RT: 4.803 min Scan# 1067
Delta R.T. 0.000 min
Lab File: 938279-2.D
Acq: 24 Jun 2024 5:00 pm

Tgt Ion: 45 Resp: 30704

Ion	Ratio	Lower	Upper
45	100		
121	20.1	9.8	14.6#
77	52.3	6.1	9.1#

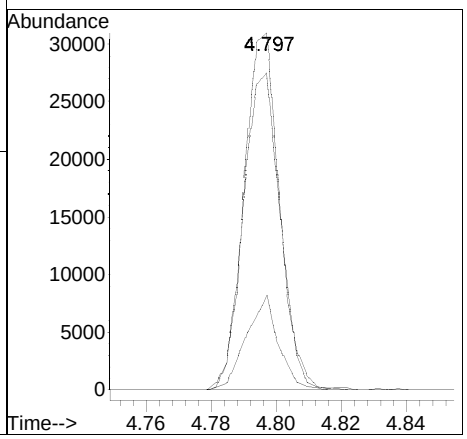


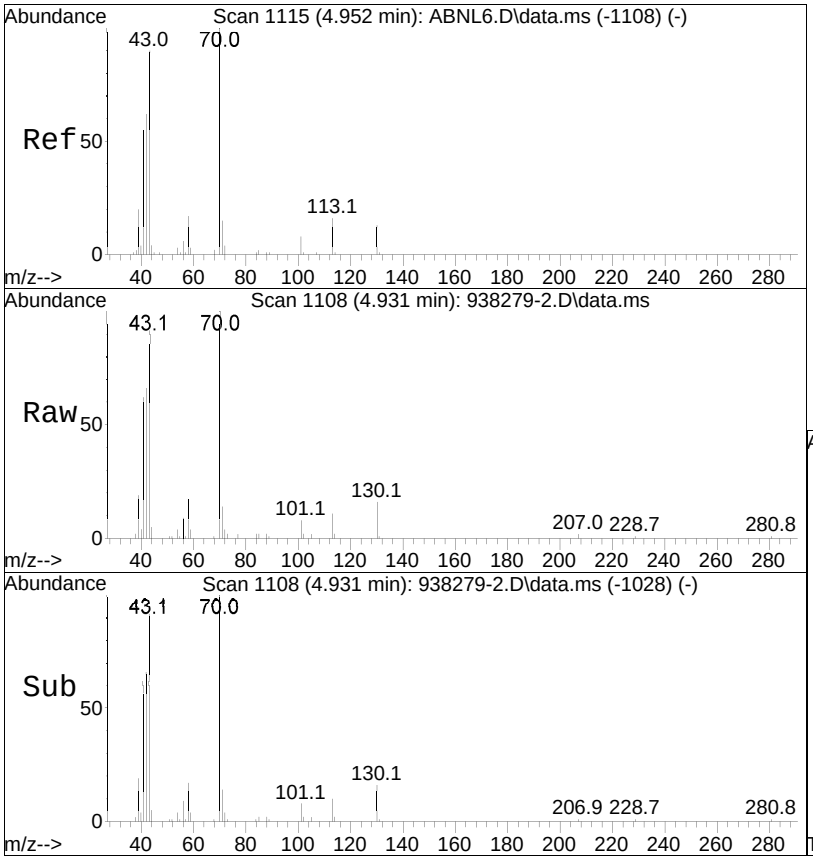


#15
2-Methylphenol
Concen: 3.07 ug/ml
RT: 4.797 min Scan# 1065
Delta R.T. 0.003 min
Lab File: 938279-2.D
Acq: 24 Jun 2024 5:00 pm

Tgt Ion:108 Resp: 23438

Ion	Ratio	Lower	Upper
108	100		
107	92.5	70.7	106.1
90	24.1	18.7	28.1

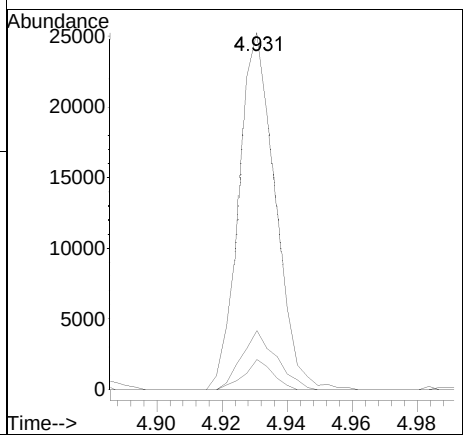


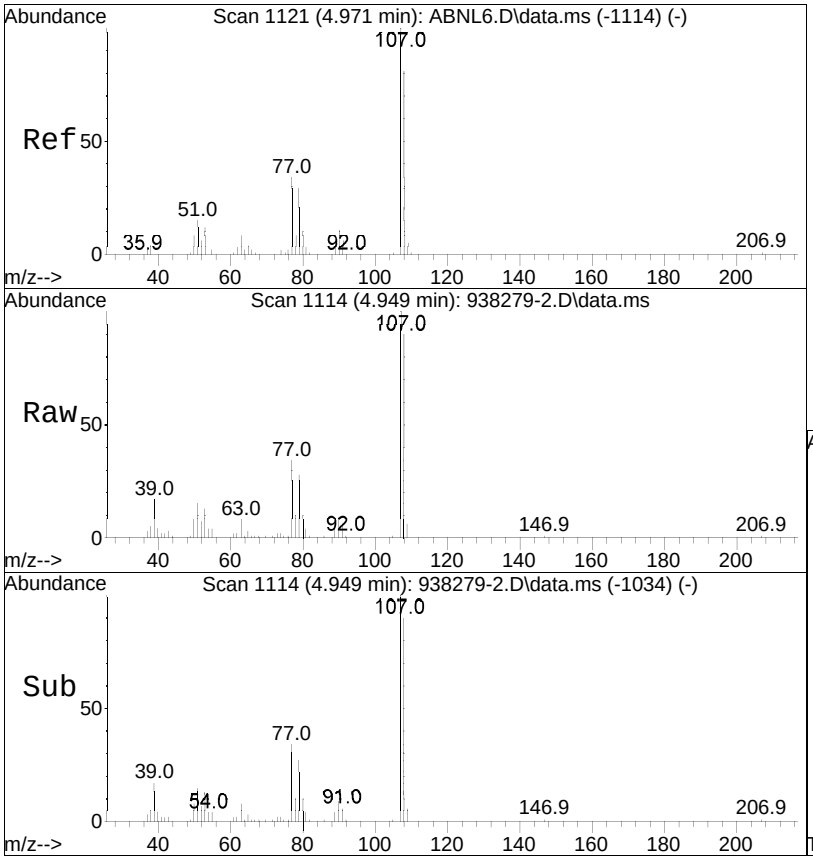


#17
n-Nitrosodi-n-propylamine
Concen: 2.92 ug/ml
RT: 4.931 min Scan# 1108
Delta R.T. 0.000 min
Lab File: 938279-2.D
Acq: 24 Jun 2024 5:00 pm

Tgt Ion: 70 Resp: 19556

Ion	Ratio	Lower	Upper
70	100		
130	15.8	18.2	27.4#
101	6.7	7.8	11.8#

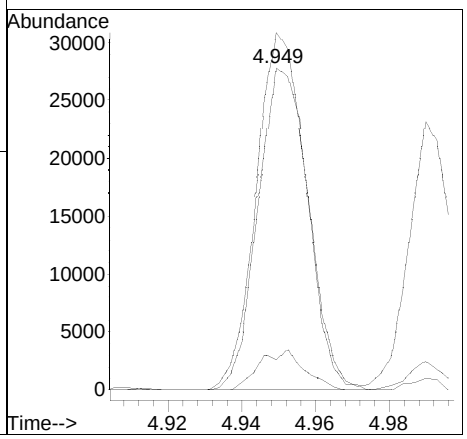


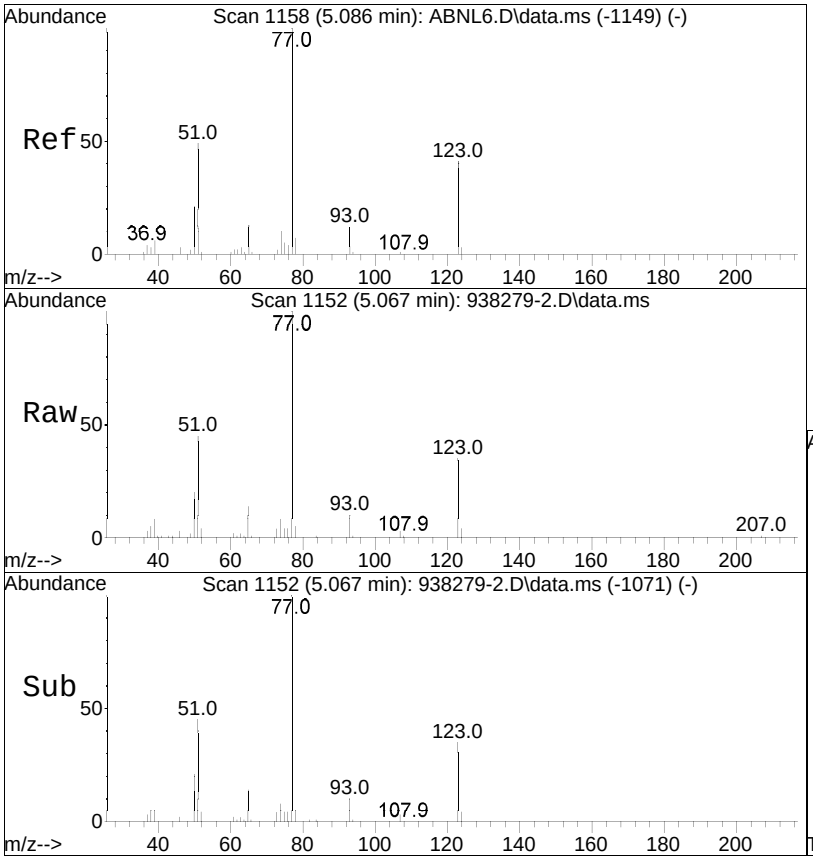


#18
3-Methylphenol/4-Methylphenol
Concen: 3.25 ug/ml
RT: 4.949 min Scan# 1114
Delta R.T. 0.000 min
Lab File: 938279-2.D
Acq: 24 Jun 2024 5:00 pm

Tgt Ion:108 Resp: 26199

Ion	Ratio	Lower	Upper
108	100		
107	111.7	88.6	132.8
90	11.3	8.8	13.2

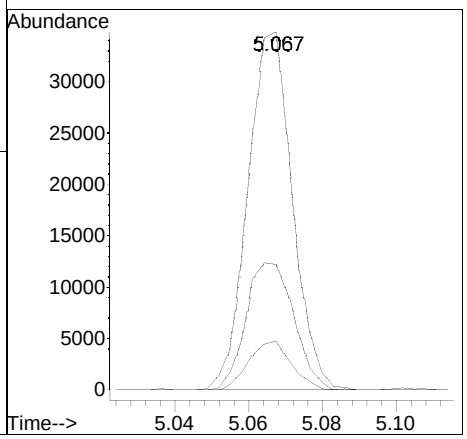


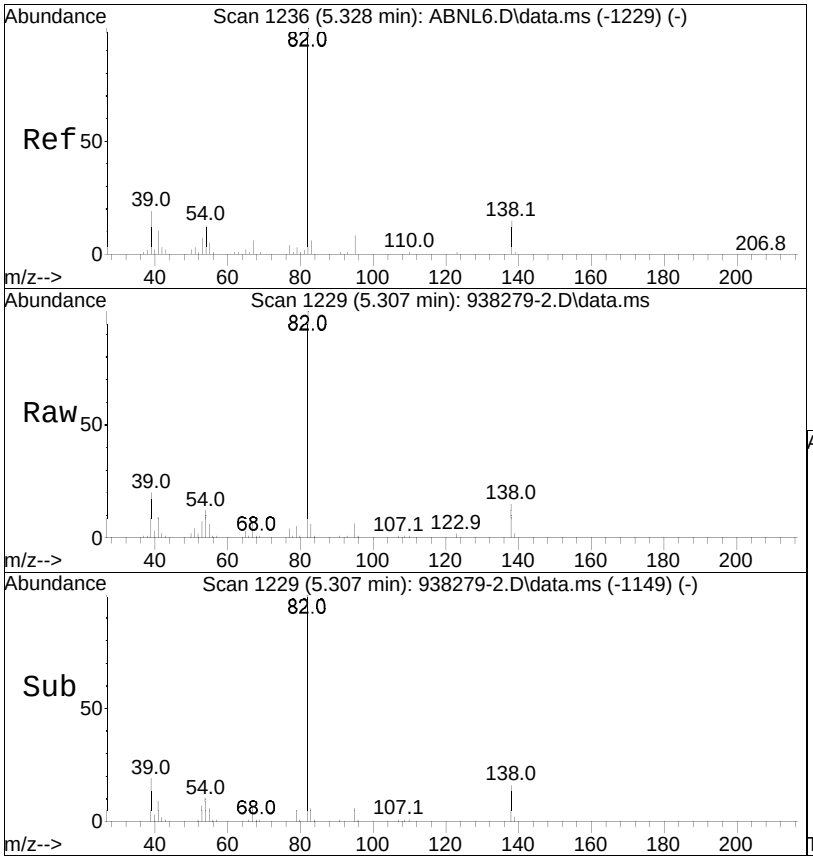


#20
Nitrobenzene
Concen: 3.04 ug/ml
RT: 5.067 min Scan# 1152
Delta R.T. 0.003 min
Lab File: 938279-2.D
Acq: 24 Jun 2024 5:00 pm

Tgt Ion: 77 Resp: 29006

Ion	Ratio	Lower	Upper
77	100		
123	38.3	36.3	54.5
65	13.3	11.6	17.4

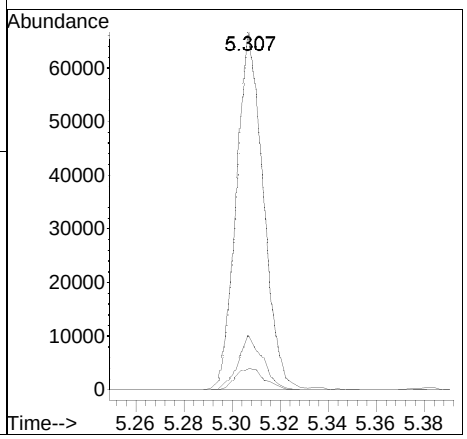


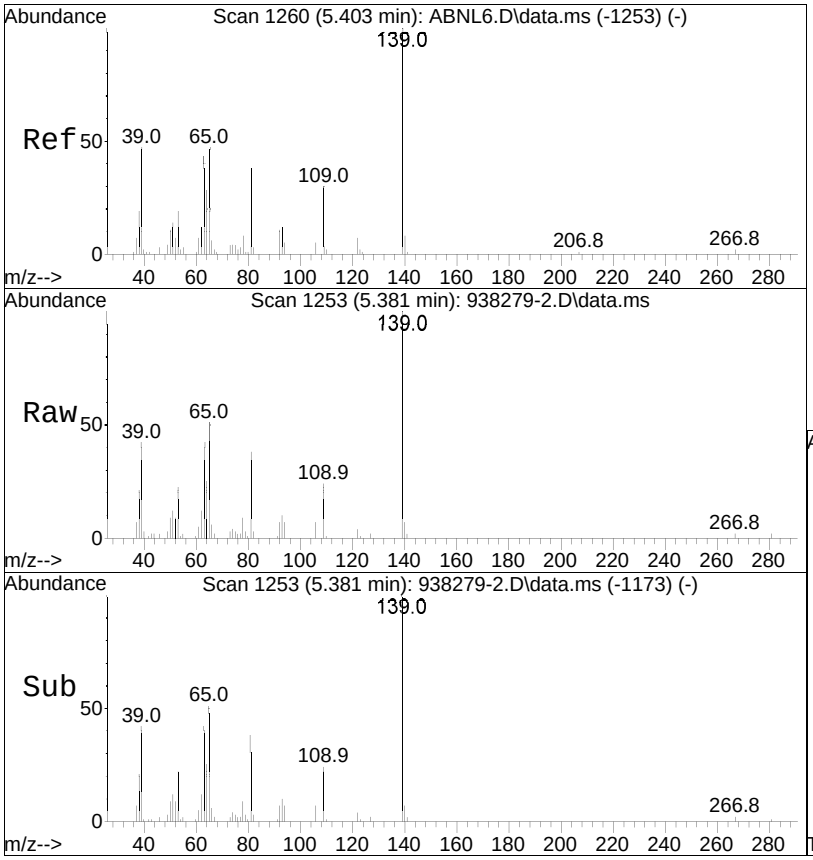


#21
Isophorone
Concen: 3.09 ug/ml
RT: 5.307 min Scan# 1229
Delta R.T. 0.000 min
Lab File: 938279-2.D
Acq: 24 Jun 2024 5:00 pm

Tgt Ion: 82 Resp: 51673

Ion	Ratio	Lower	Upper
82	100		
138	14.0	14.7	22.1#
95	6.6	5.2	7.8

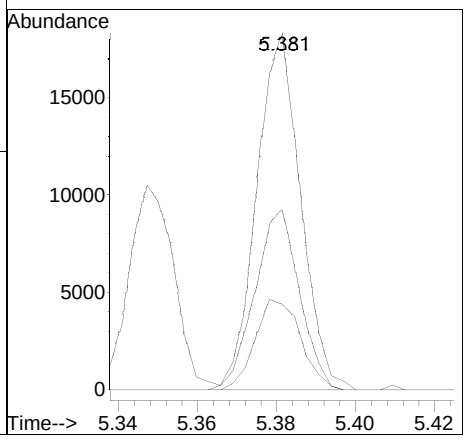


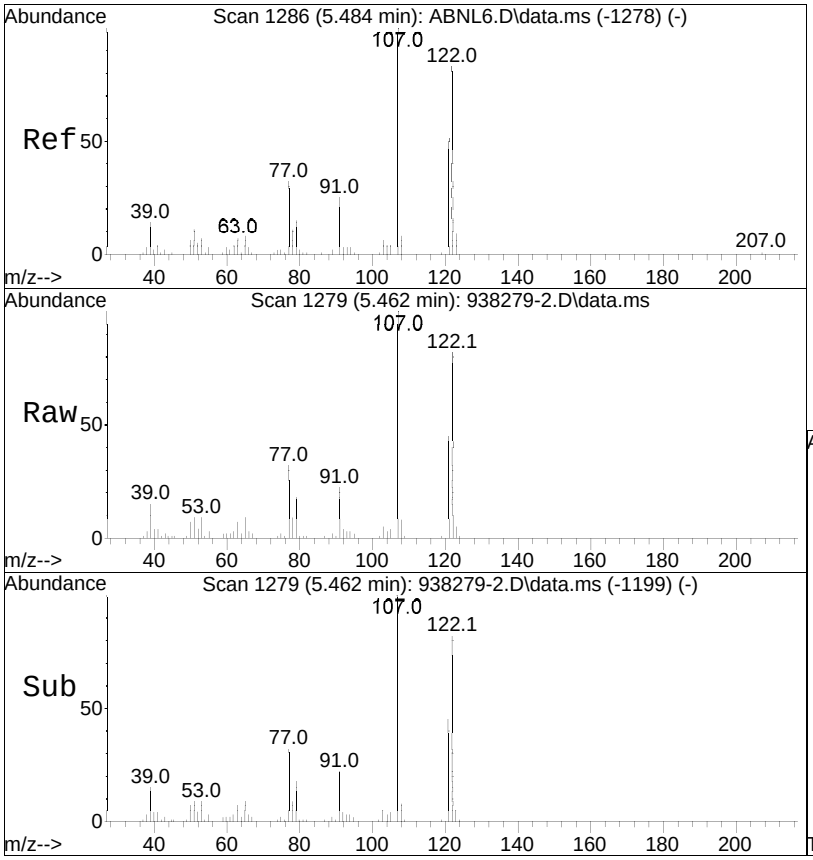


#22
2-Nitrophenol
Concen: 2.97 ug/ml
RT: 5.381 min Scan# 1253
Delta R.T. 0.000 min
Lab File: 938279-2.D
Acq: 24 Jun 2024 5:00 pm

Tgt Ion:139 Resp: 14061

Ion	Ratio	Lower	Upper
139	100		
109	26.4	19.4	29.0
65	51.2	46.1	69.1

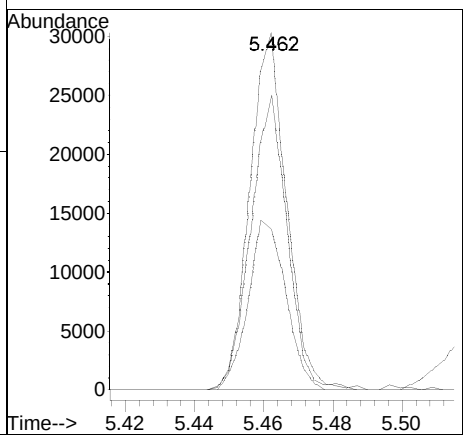


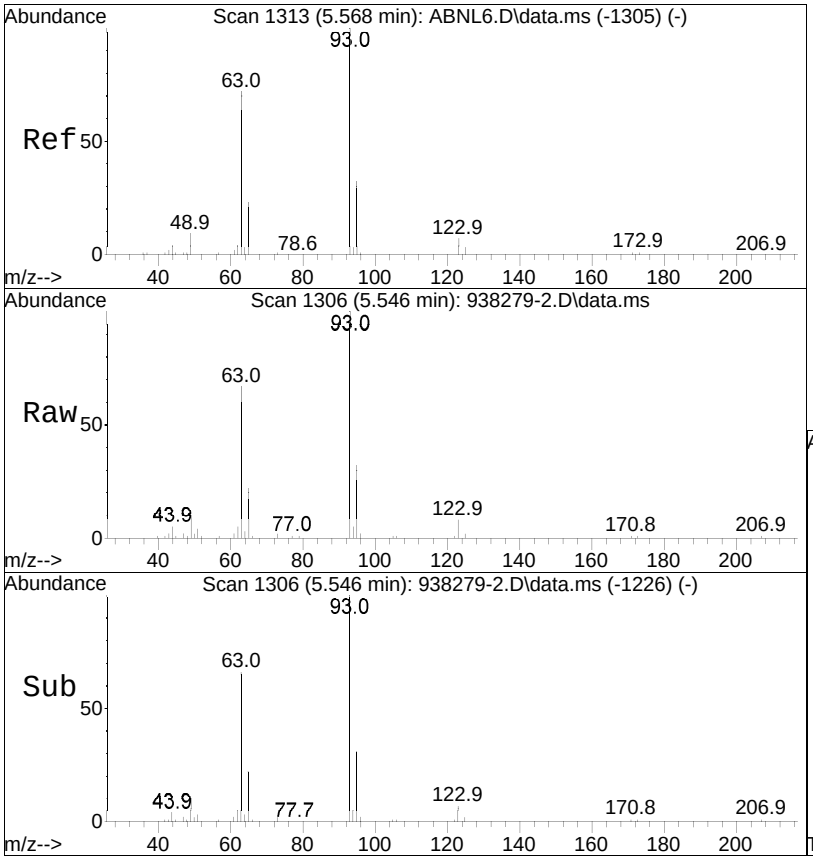


#23
2,4-Dimethylphenol
Concen: 2.77 ug/ml
RT: 5.462 min Scan# 1279
Delta R.T. 0.000 min
Lab File: 938279-2.D
Acq: 24 Jun 2024 5:00 pm

Tgt Ion:107 Resp: 22307

Ion	Ratio	Lower	Upper
107	100		
121	48.8	40.0	60.0
122	81.7	70.2	105.4

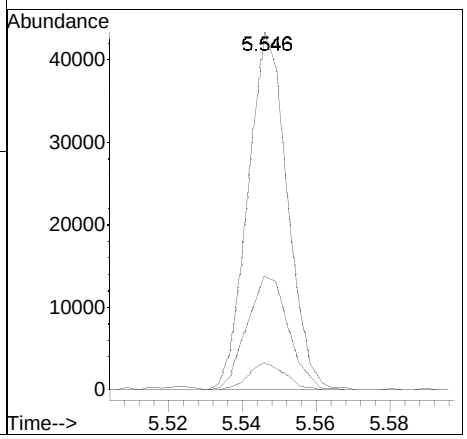


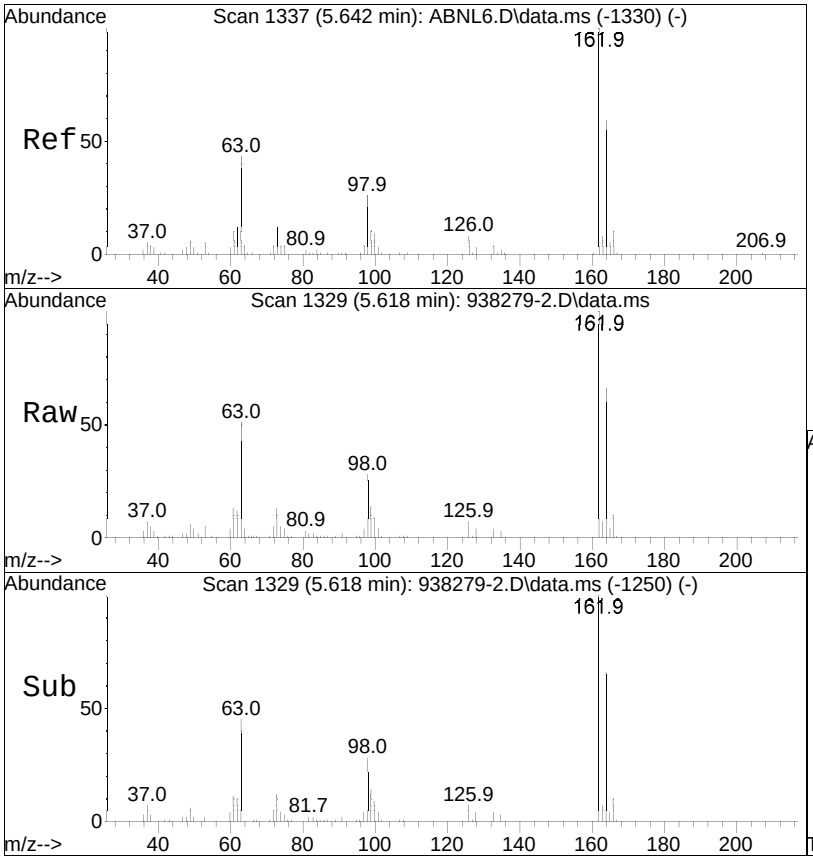


#24
Bis(2-chloroethoxy)methane
Concen: 3.10 ug/ml
RT: 5.546 min Scan# 1306
Delta R.T. 0.000 min
Lab File: 938279-2.D
Acq: 24 Jun 2024 5:00 pm

Tgt Ion: 93 Resp: 31905

Ion	Ratio	Lower	Upper
93	100		
95	33.6	25.8	38.8
123	7.2	10.1	15.1#

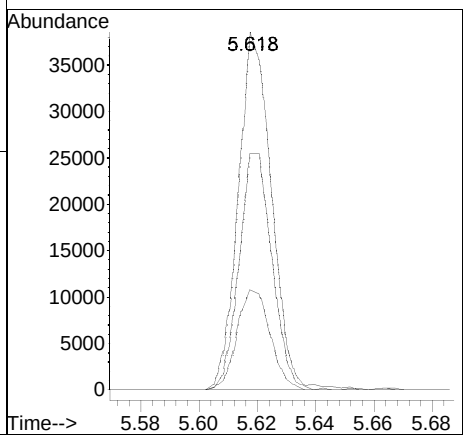


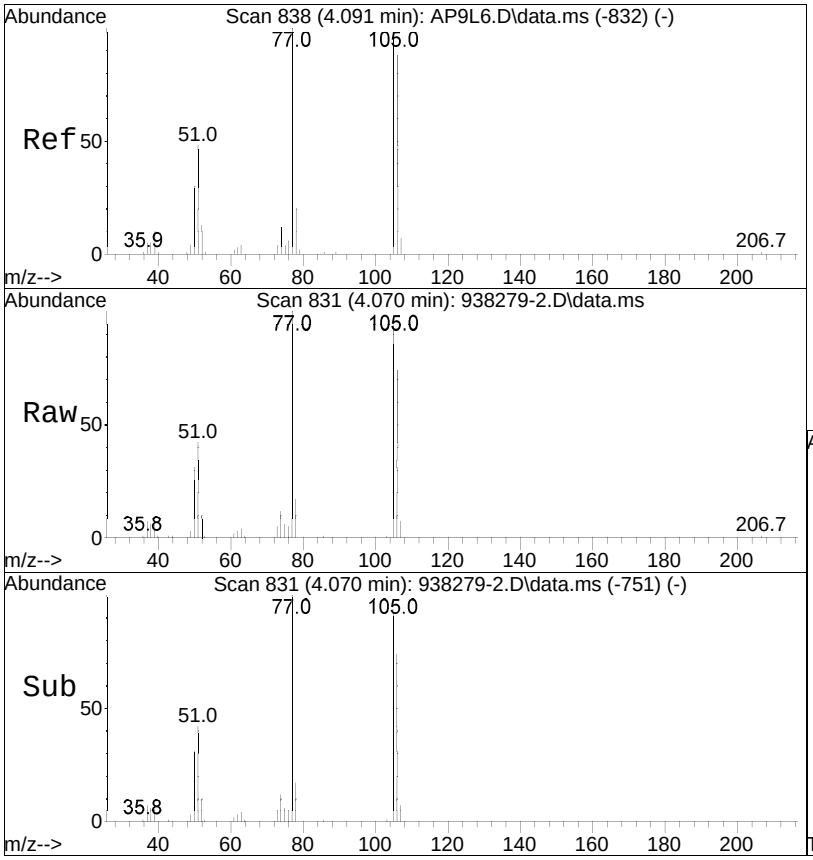


#25
2,4-Dichlorophenol
Concen: 3.33 ug/ml
RT: 5.618 min Scan# 1329
Delta R.T. -0.003 min
Lab File: 938279-2.D
Acq: 24 Jun 2024 5:00 pm

Tgt Ion:162 Resp: 30241

Ion	Ratio	Lower	Upper
162	100		
164	65.4	51.0	76.4
98	28.1	32.2	48.2#

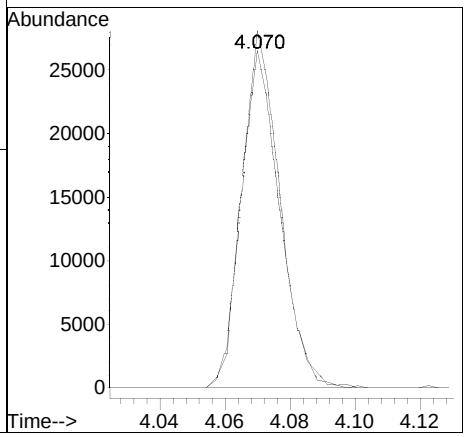


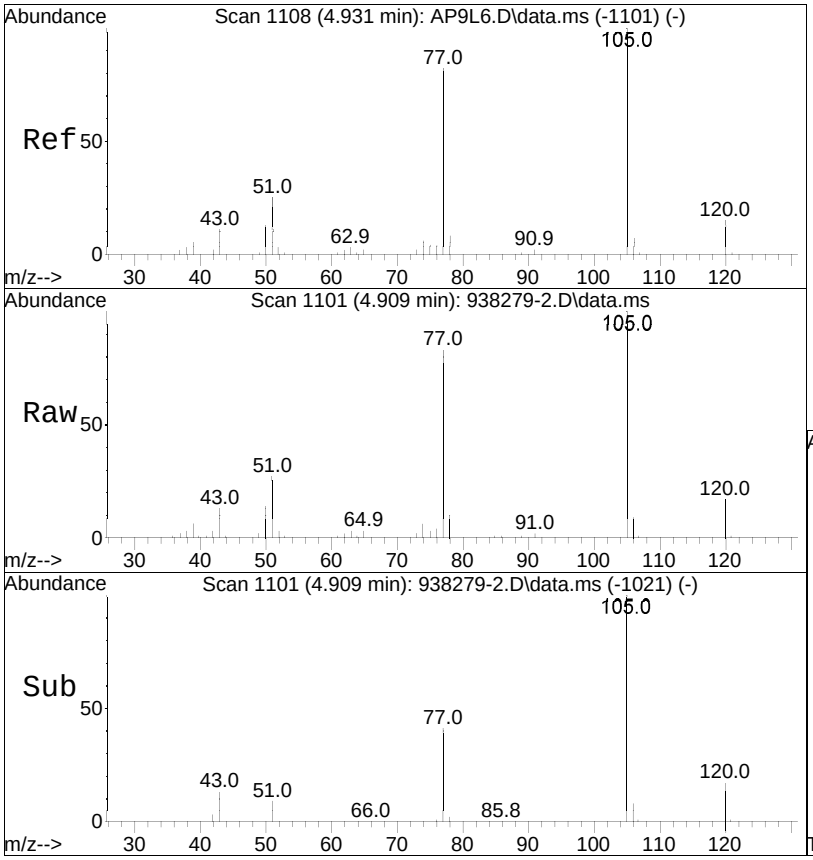


#28
Benzaldehyde
Concen: 2.86 ug/ml
RT: 4.070 min Scan# 831
Delta R.T. -0.000 min
Lab File: 938279-2.D
Acq: 24 Jun 2024 5:00 pm

Tgt Ion:105 Resp: 21777

Ion	Ratio	Lower	Upper
105	100		
77	104.3	82.2	123.4

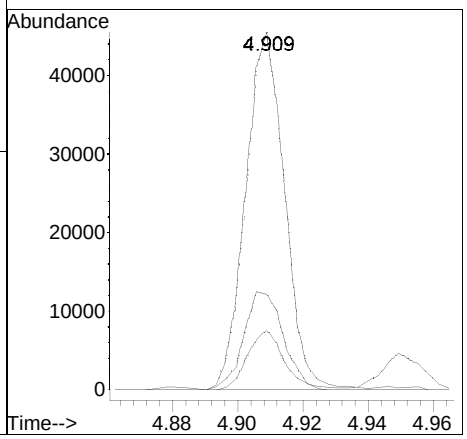


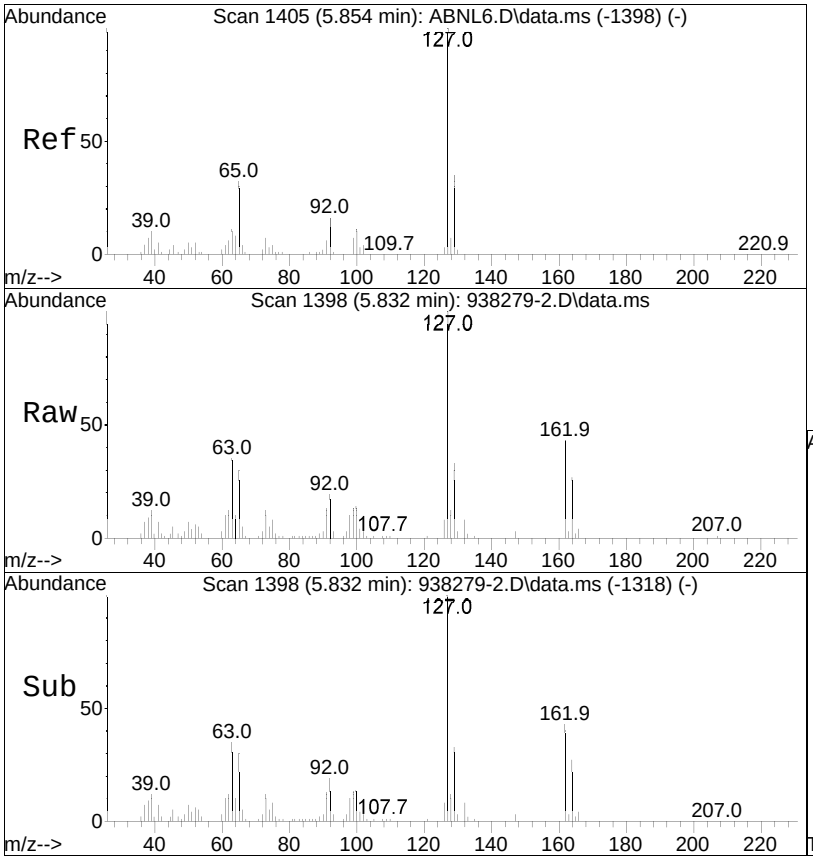


#29
Acetophenone
Concen: 2.88 ug/ml
RT: 4.909 min Scan# 1101
Delta R.T. -0.000 min
Lab File: 938279-2.D
Acq: 24 Jun 2024 5:00 pm

Tgt Ion:105 Resp: 37473

Ion	Ratio	Lower	Upper
105	100		
120	15.5	20.5	30.7#
51	28.7	34.9	52.3#

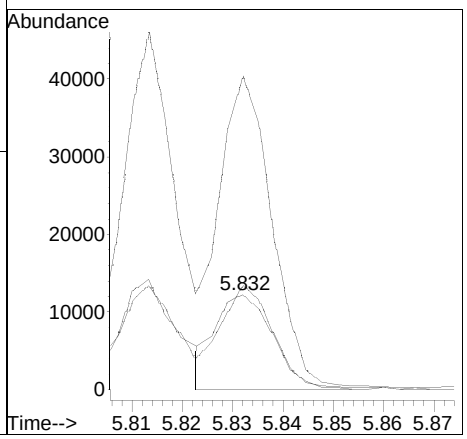


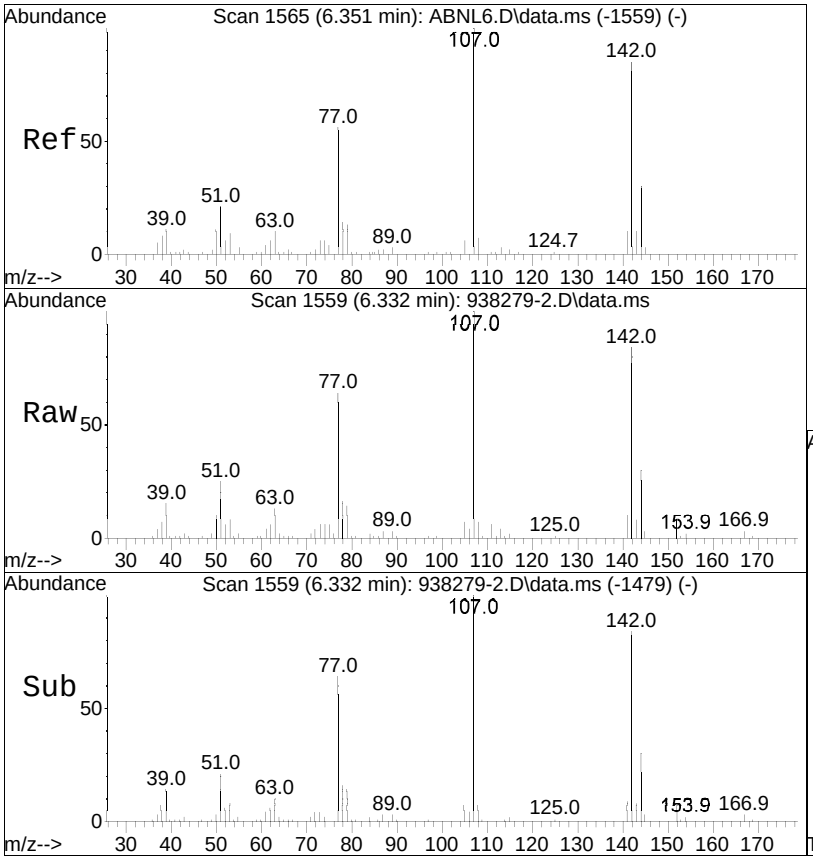


#38
4-Chloroaniline
Concen: 2.91 ug/ml
RT: 5.832 min Scan# 1398
Delta R.T. 0.000 min
Lab File: 938279-2.D
Acq: 24 Jun 2024 5:00 pm

Tgt Ion: 65 Resp: 9646

Ion	Ratio	Lower	Upper
65	100		
127	304.9	237.6	356.4
129	103.0	76.3	114.5

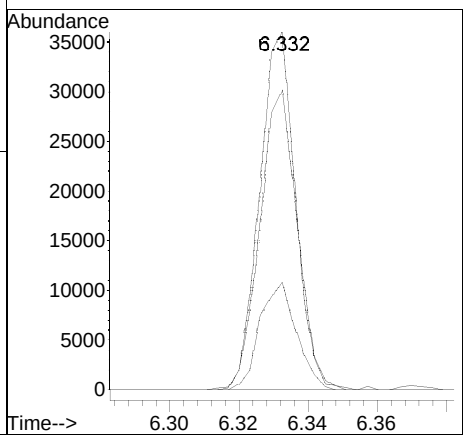


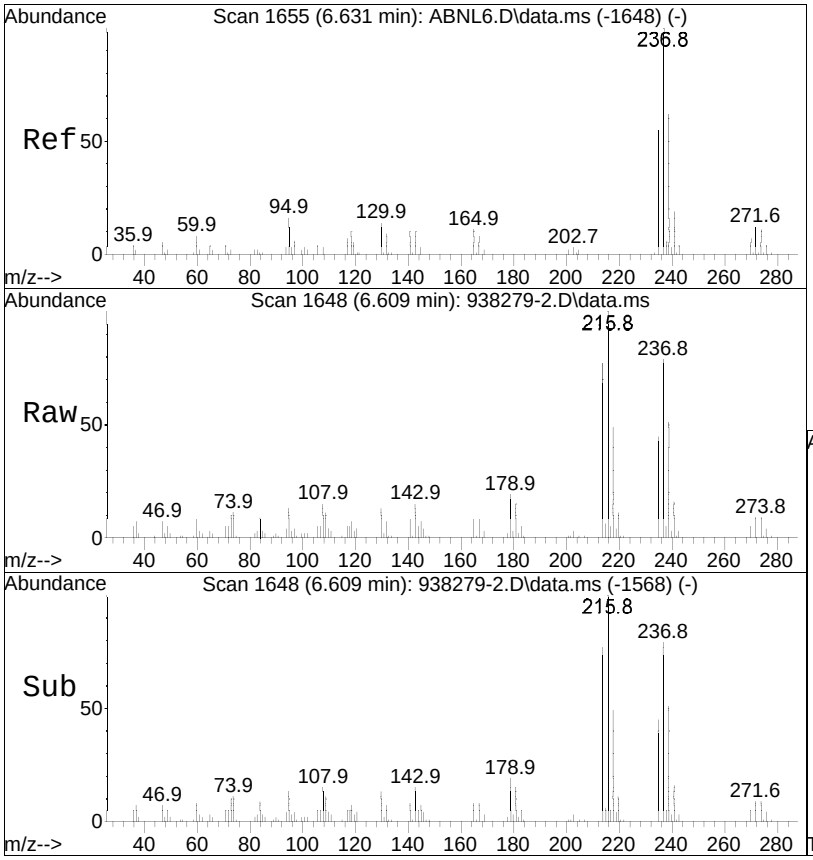


#40
p-Chloro-m-cresol
Concen: 3.39 ug/ml
RT: 6.332 min Scan# 1559
Delta R.T. 0.000 min
Lab File: 938279-2.D
Acq: 24 Jun 2024 5:00 pm

Tgt Ion:107 Resp: 25786

Ion	Ratio	Lower	Upper
107	100		
144	30.8	20.9	31.3
142	87.2	66.1	99.1

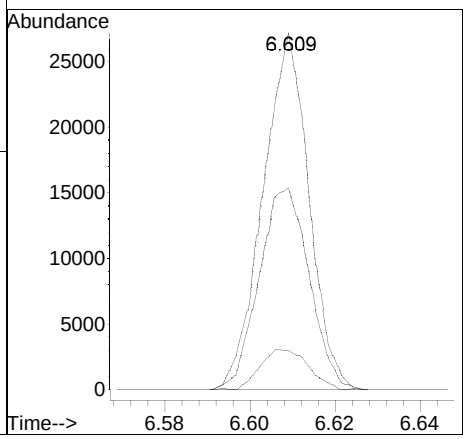


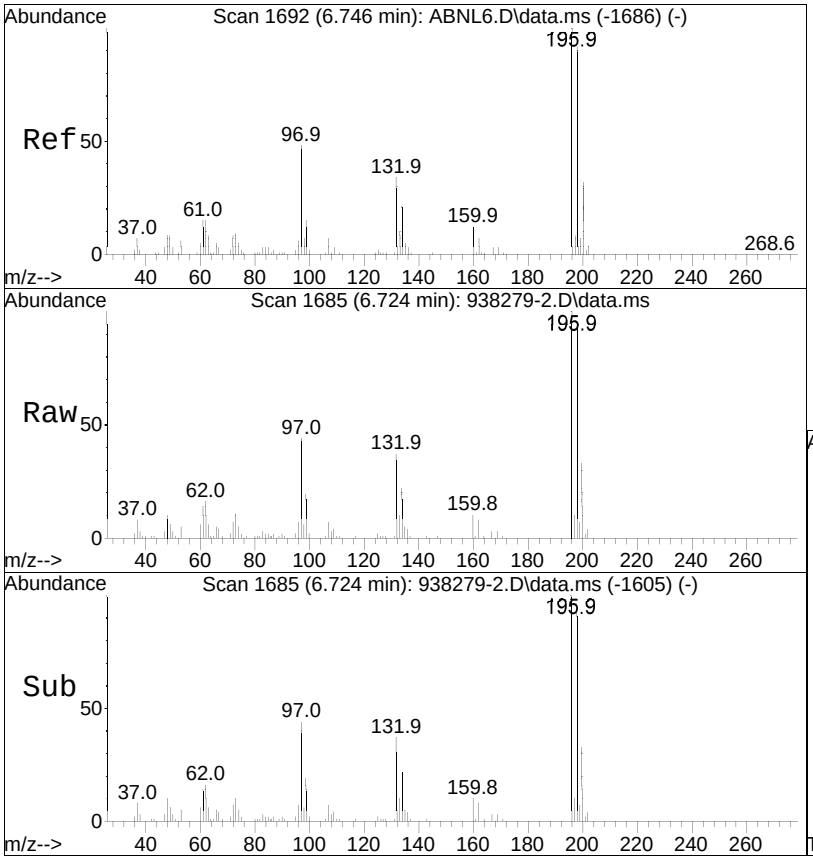


#43
Hexachlorocyclopentadiene
Concen: 2.66 ug/ml
RT: 6.609 min Scan# 1648
Delta R.T. 0.000 min
Lab File: 938279-2.D
Acq: 24 Jun 2024 5:00 pm

Tgt Ion:237 Resp: 20206

Ion	Ratio	Lower	Upper
237	100		
235	62.0	49.7	74.5
272	12.3	9.8	14.6

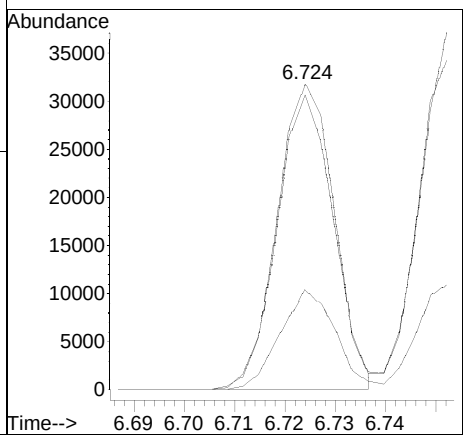


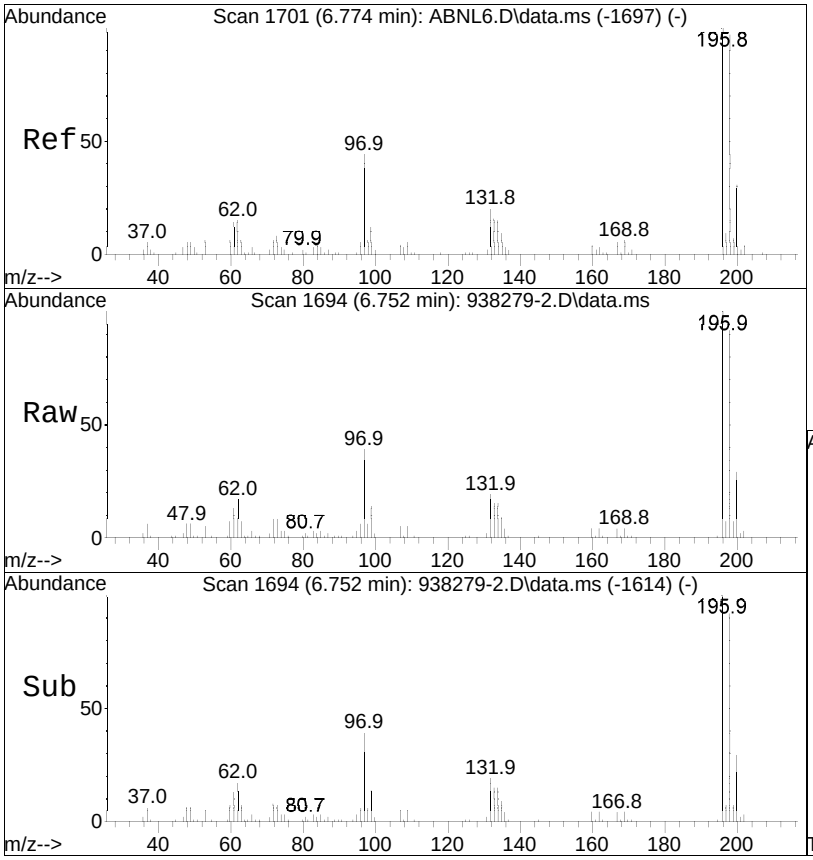


#44
2,4,6-Trichlorophenol
Concen: 3.23 ug/ml
RT: 6.724 min Scan# 1685
Delta R.T. 0.000 min
Lab File: 938279-2.D
Acq: 24 Jun 2024 5:00 pm

Tgt Ion:196 Resp: 25004

Ion	Ratio	Lower	Upper
196	100		
198	96.6	77.5	116.3
200	32.0	23.8	35.6

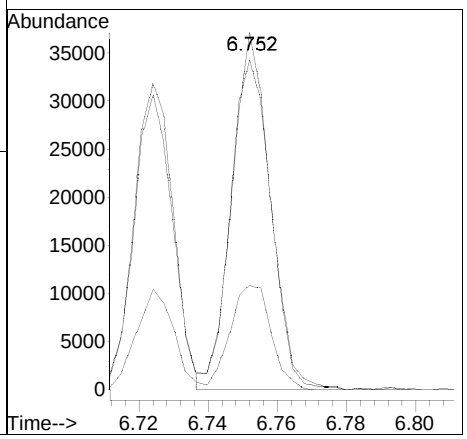


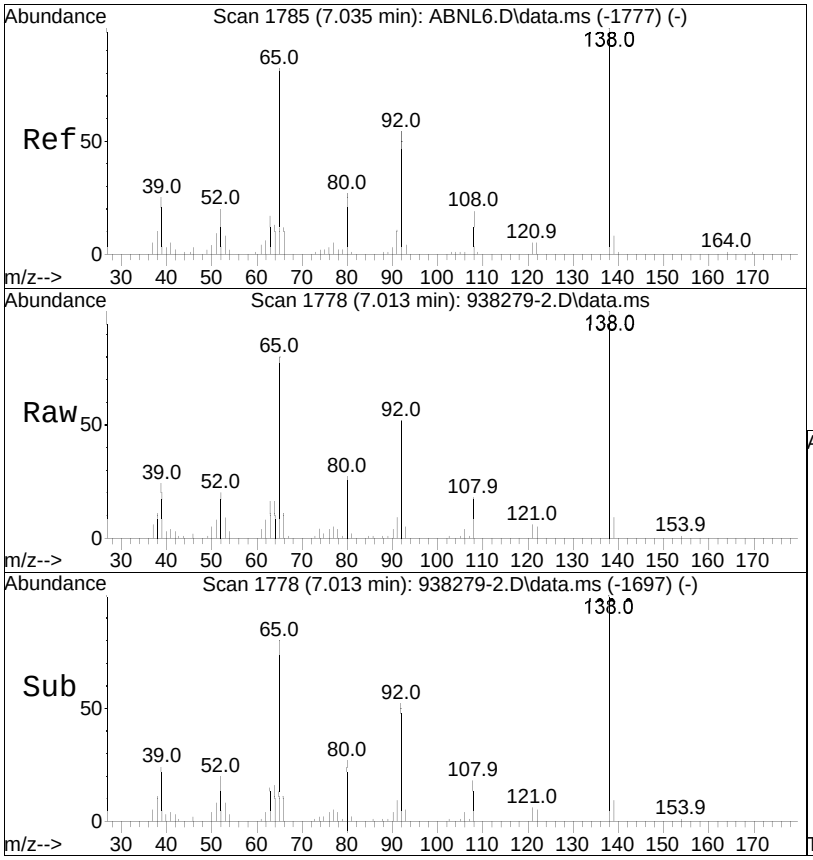


#45
2,4,5-Trichlorophenol
Concen: 3.47 ug/ml
RT: 6.752 min Scan# 1694
Delta R.T. 0.000 min
Lab File: 938279-2.D
Acq: 24 Jun 2024 5:00 pm

Tgt Ion:196 Resp: 28715

Ion	Ratio	Lower	Upper
196	100		
200	31.1	25.4	38.0
198	95.9	78.0	117.0

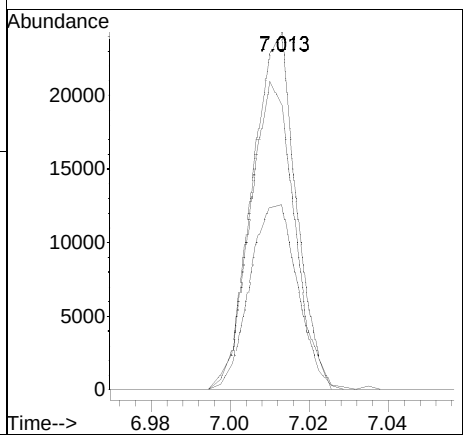


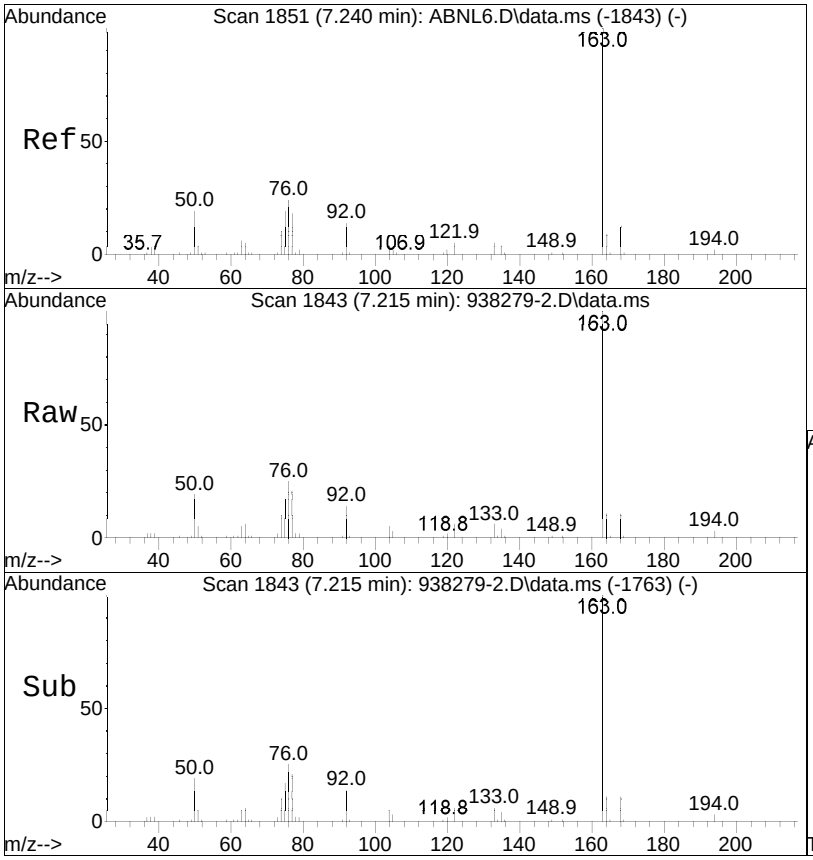


#48
2-Nitroaniline
Concen: 3.22 ug/ml
RT: 7.013 min Scan# 1778
Delta R.T. 0.003 min
Lab File: 938279-2.D
Acq: 24 Jun 2024 5:00 pm

Tgt Ion:138 Resp: 18637

Ion	Ratio	Lower	Upper
138	100		
92	56.5	53.5	80.3
65	86.8	86.3	129.5

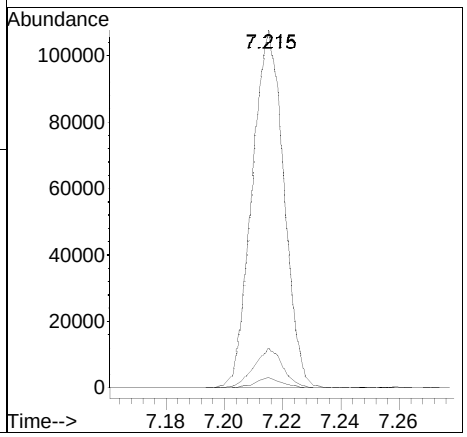


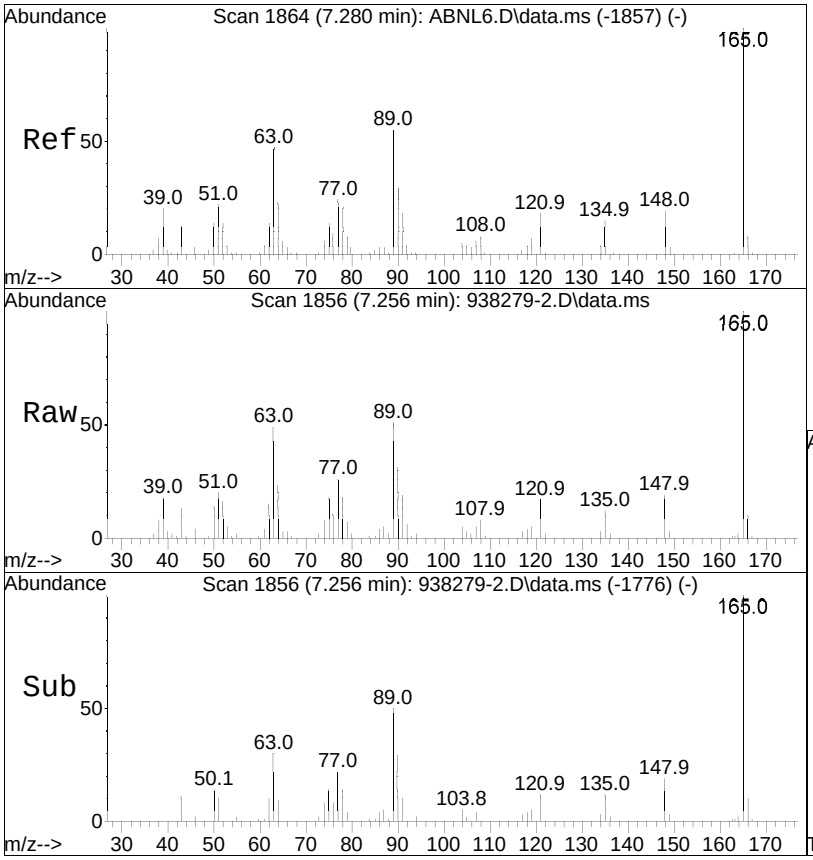


#51
Dimethyl phthalate
Concen: 3.00 ug/ml
RT: 7.215 min Scan# 1843
Delta R.T. 0.000 min
Lab File: 938279-2.D
Acq: 24 Jun 2024 5:00 pm

Tgt Ion:163 Resp: 80844

Ion	Ratio	Lower	Upper
163	100		
194	2.6	3.5	5.3#
164	10.3	7.9	11.9

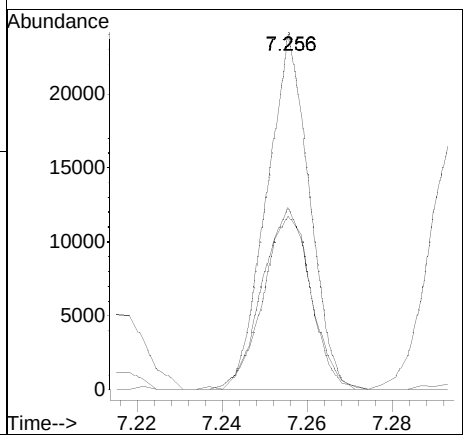


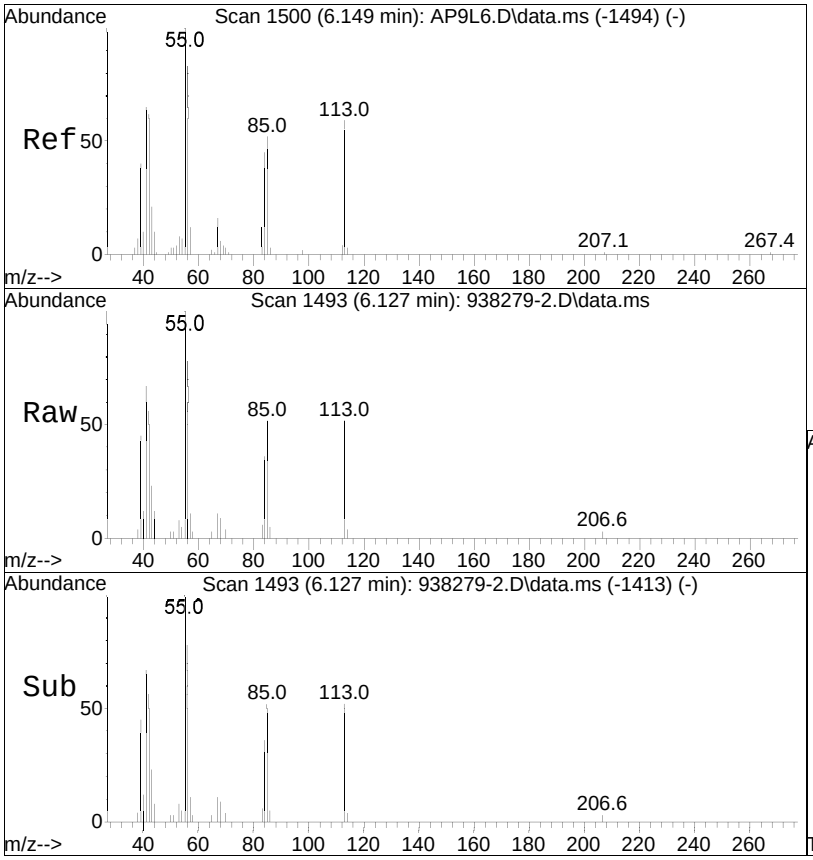


#53
2,6-Dinitrotoluene
Concen: 3.15 ug/ml
RT: 7.256 min Scan# 1856
Delta R.T. 0.000 min
Lab File: 938279-2.D
Acq: 24 Jun 2024 5:00 pm

Tgt Ion:165 Resp: 16789

Ion	Ratio	Lower	Upper
165	100		
89	57.9	54.2	81.2
63	54.8	64.2	96.2#

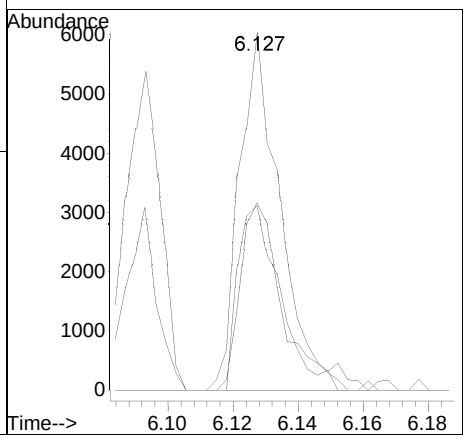


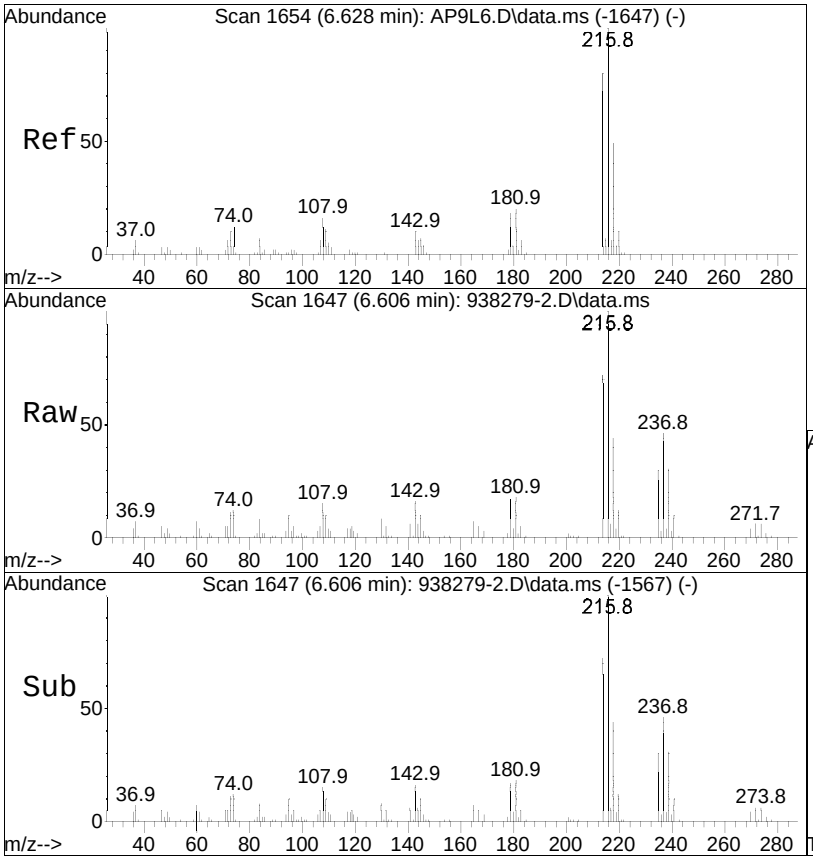


#60
Caprolactam
Concen: 1.52 ug/ml
RT: 6.127 min Scan# 1493
Delta R.T. -0.000 min
Lab File: 938279-2.D
Acq: 24 Jun 2024 5:00 pm

Tgt Ion: 55 Resp: 5322

Ion	Ratio	Lower	Upper
55	100		
85	52.8	19.8	29.6#
113	52.8	29.6	44.4#

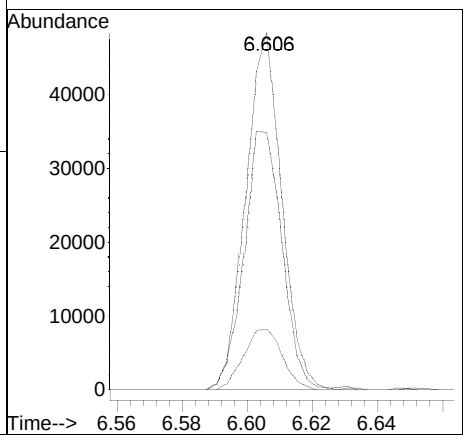


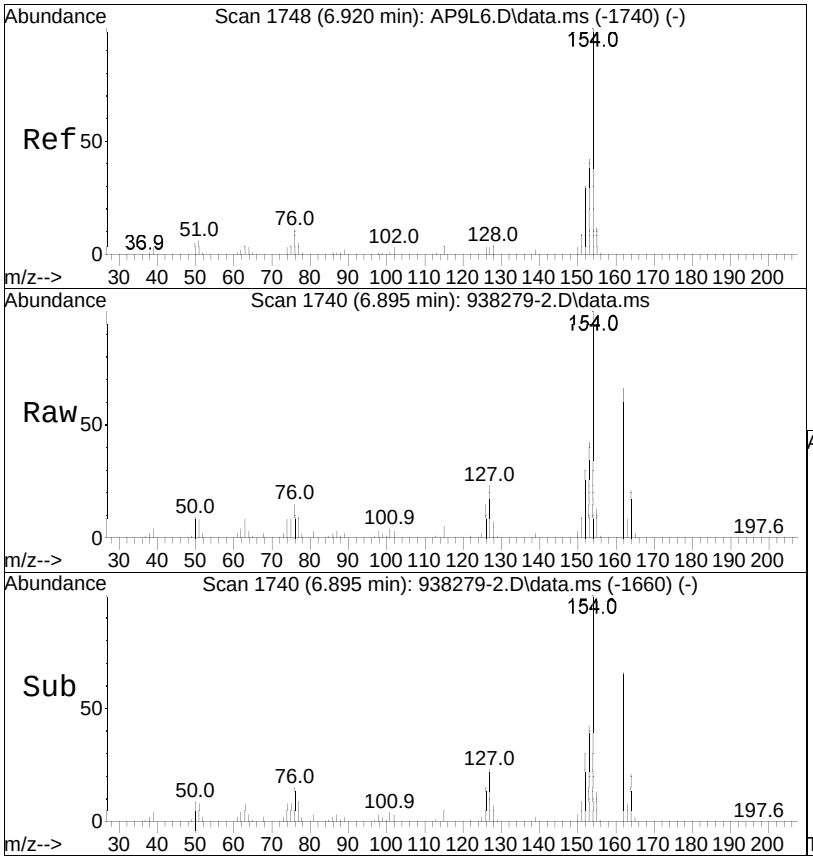


#61
1,2,4,5-Tetrachlorobenzene
Concen: 2.84 ug/ml
RT: 6.606 min Scan# 1647
Delta R.T. -0.000 min
Lab File: 938279-2.D
Acq: 24 Jun 2024 5:00 pm

Tgt Ion:216 Resp: 37042

Ion	Ratio	Lower	Upper
216	100		
214	76.1	63.7	95.5
179	18.3	19.0	28.6#

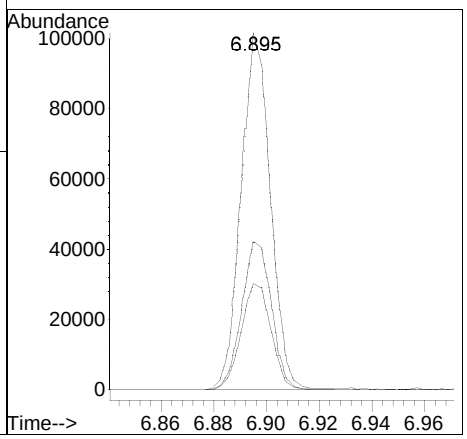


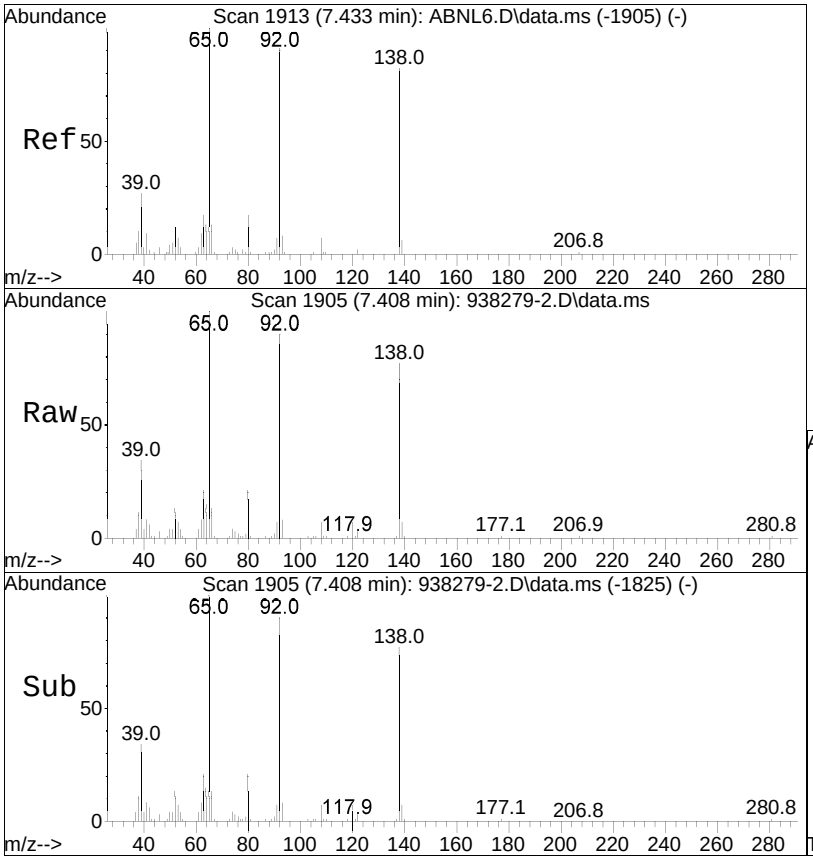


#62
Biphenyl
Concen: 2.80 ug/ml
RT: 6.895 min Scan# 1740
Delta R.T. -0.000 min
Lab File: 938279-2.D
Acq: 24 Jun 2024 5:00 pm

Tgt Ion:154 Resp: 78127

Ion	Ratio	Lower	Upper
154	100		
153	42.4	32.3	48.5
152	30.5	22.5	33.7

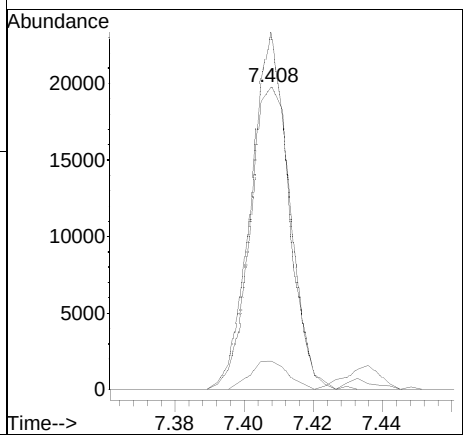


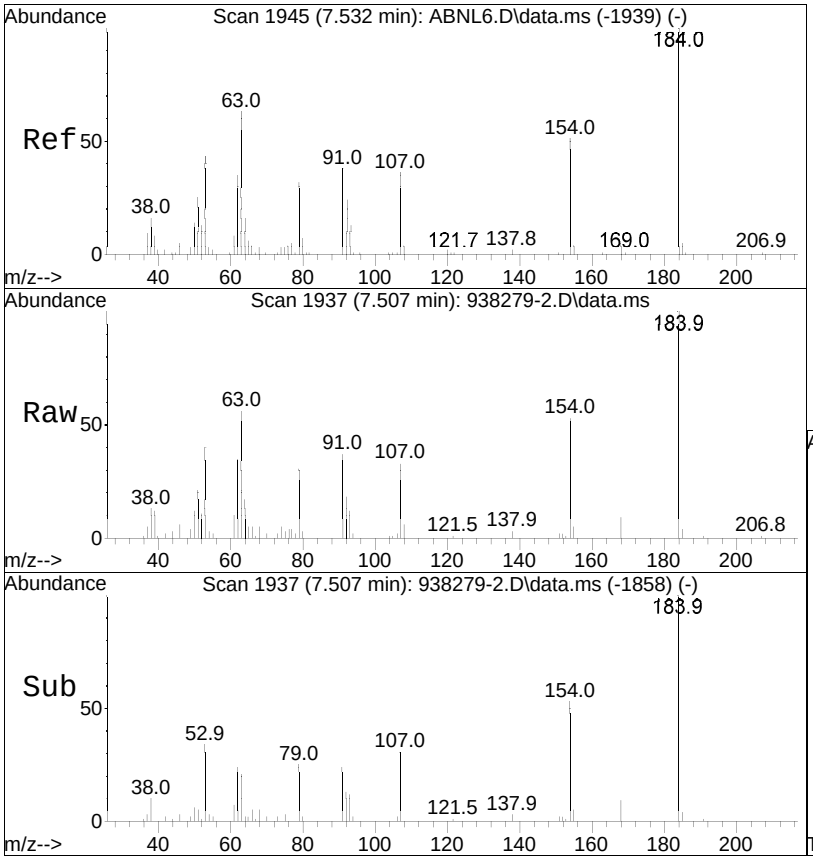


#64
3-Nitroaniline
Concen: 3.14 ug/ml
RT: 7.408 min Scan# 1905
Delta R.T. 0.000 min
Lab File: 938279-2.D
Acq: 24 Jun 2024 5:00 pm

Tgt Ion:138 Resp: 16032

Ion	Ratio	Lower	Upper
138	100		
92	109.9	93.4	140.2
108	8.8	9.5	14.3#

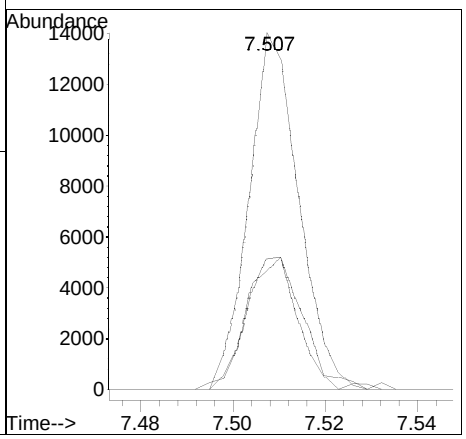


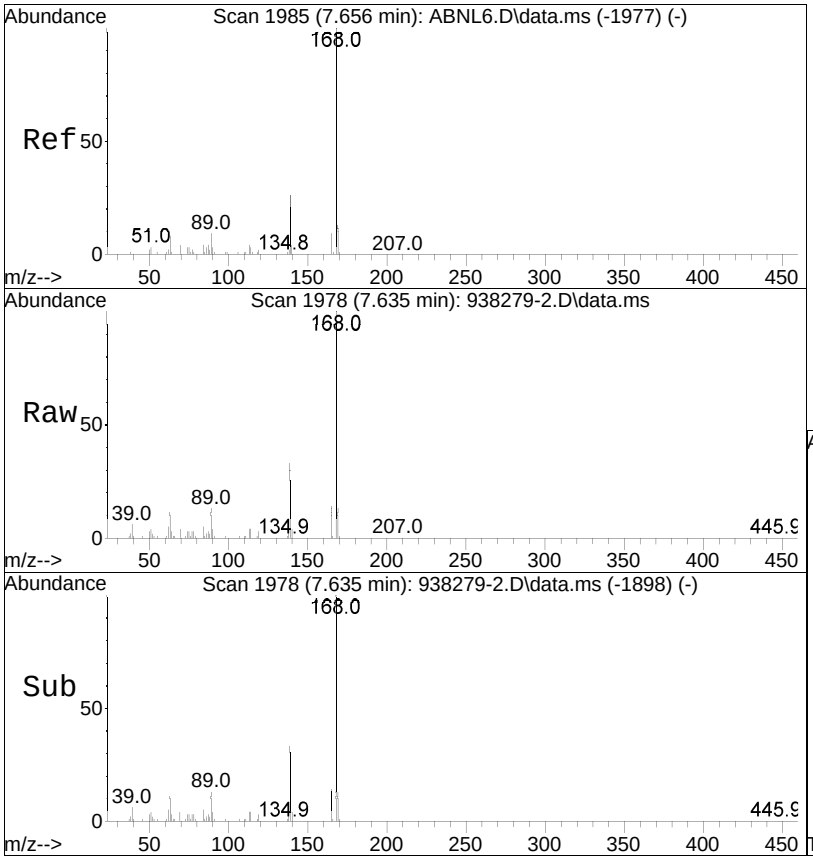


#66
2,4-Dinitrophenol
Concen: 2.97 ug/ml
RT: 7.507 min Scan# 1937
Delta R.T. -0.003 min
Lab File: 938279-2.D
Acq: 24 Jun 2024 5:00 pm

Tgt Ion:184 Resp: 10474

Ion	Ratio	Lower	Upper
184	100		
107	38.7	37.7	56.5
91	42.3	46.3	69.5#

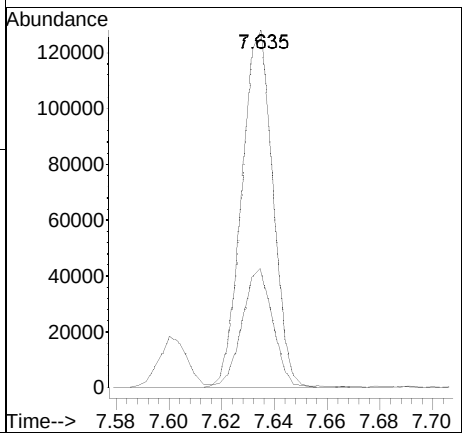


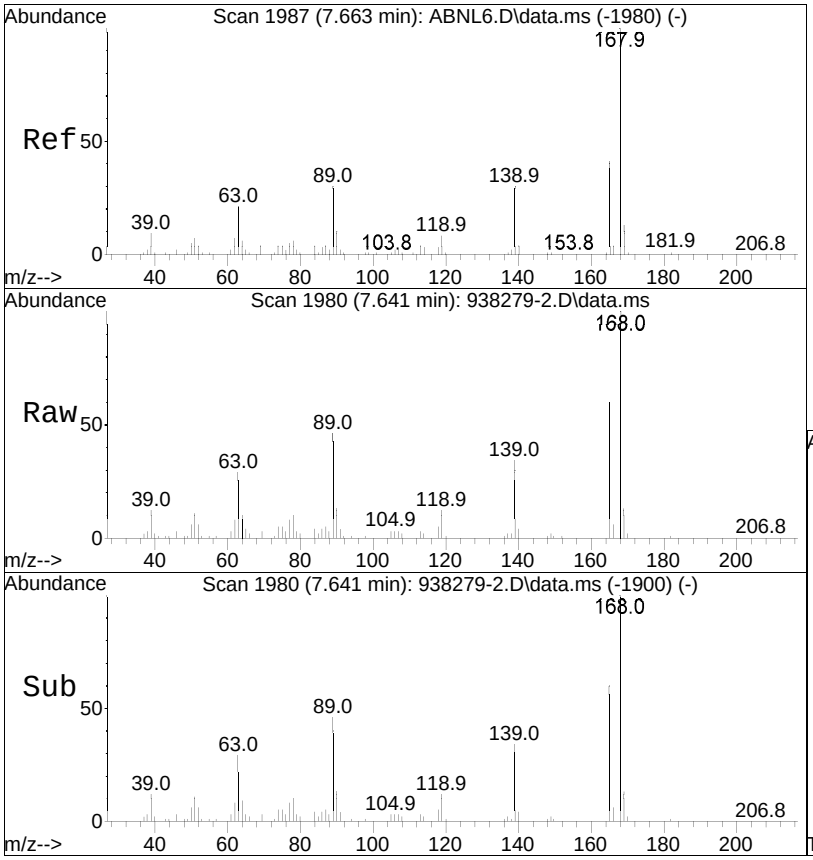


#67
Dibenzofuran
Concen: 3.18 ug/ml
RT: 7.635 min Scan# 1978
Delta R.T. 0.000 min
Lab File: 938279-2.D
Acq: 24 Jun 2024 5:00 pm

Tgt Ion:168 Resp: 104243

Ion	Ratio	Lower	Upper
168	100		
139	32.8	31.4	47.2

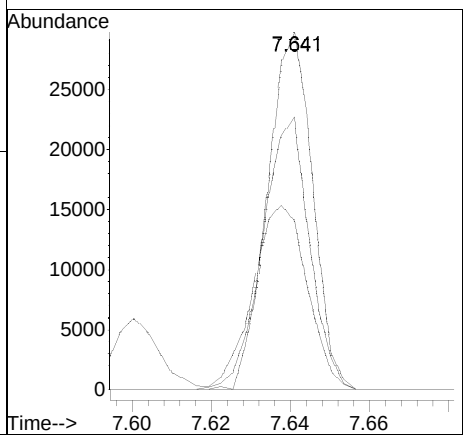


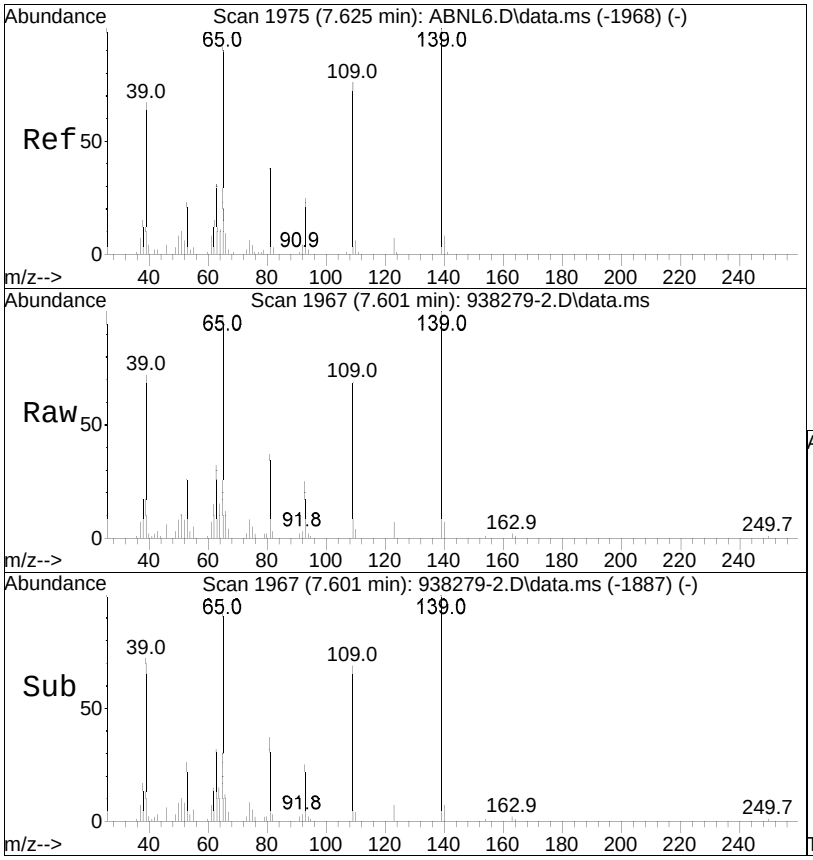


#68
2,4-Dinitrotoluene
Concen: 3.36 ug/ml
RT: 7.641 min Scan# 1980
Delta R.T. 0.000 min
Lab File: 938279-2.D
Acq: 24 Jun 2024 5:00 pm

Tgt Ion:165 Resp: 23407

Ion	Ratio	Lower	Upper
165	100		
89	79.3	72.0	108.0
63	62.3	52.7	79.1

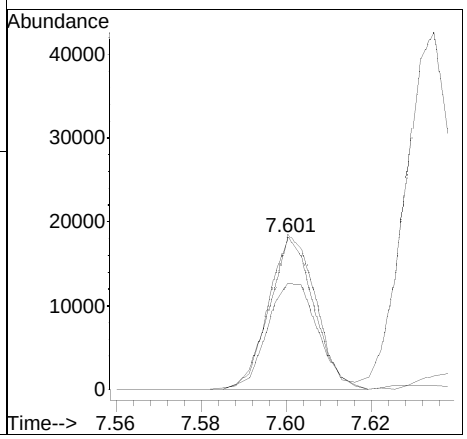


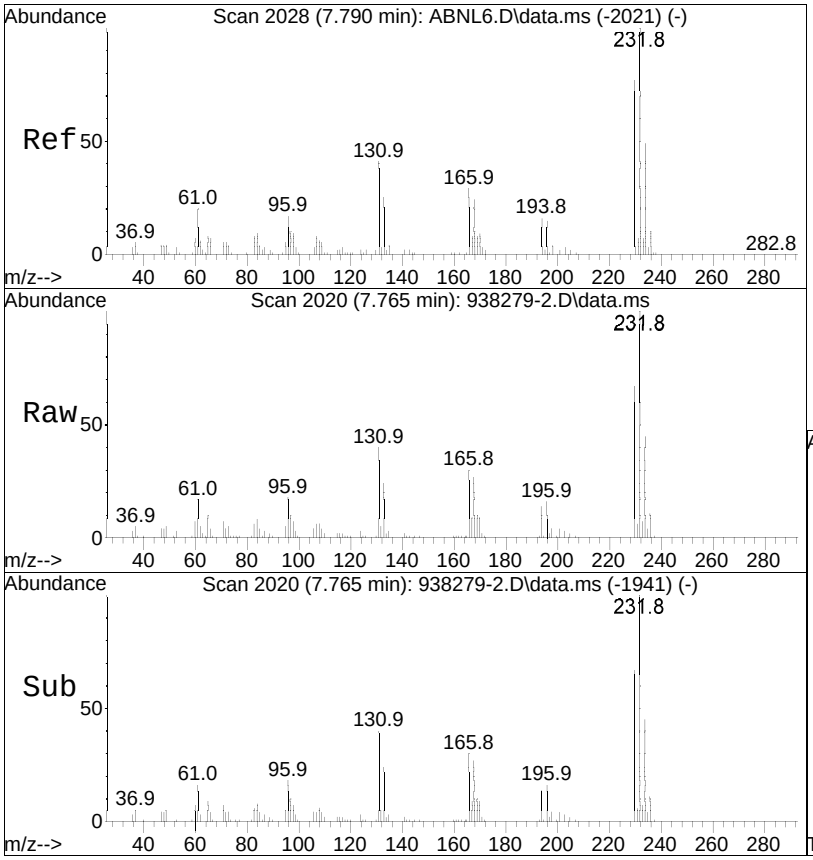


#69
4-Nitrophenol
Concen: 3.17 ug/ml
RT: 7.601 min Scan# 1967
Delta R.T. 0.000 min
Lab File: 938279-2.D
Acq: 24 Jun 2024 5:00 pm

Tgt Ion: 65 Resp: 13575

Ion	Ratio	Lower	Upper
65	100		
109	77.8	47.4	71.2#
139	102.3	76.6	115.0

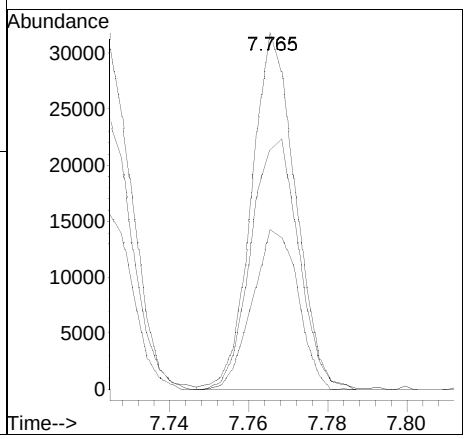


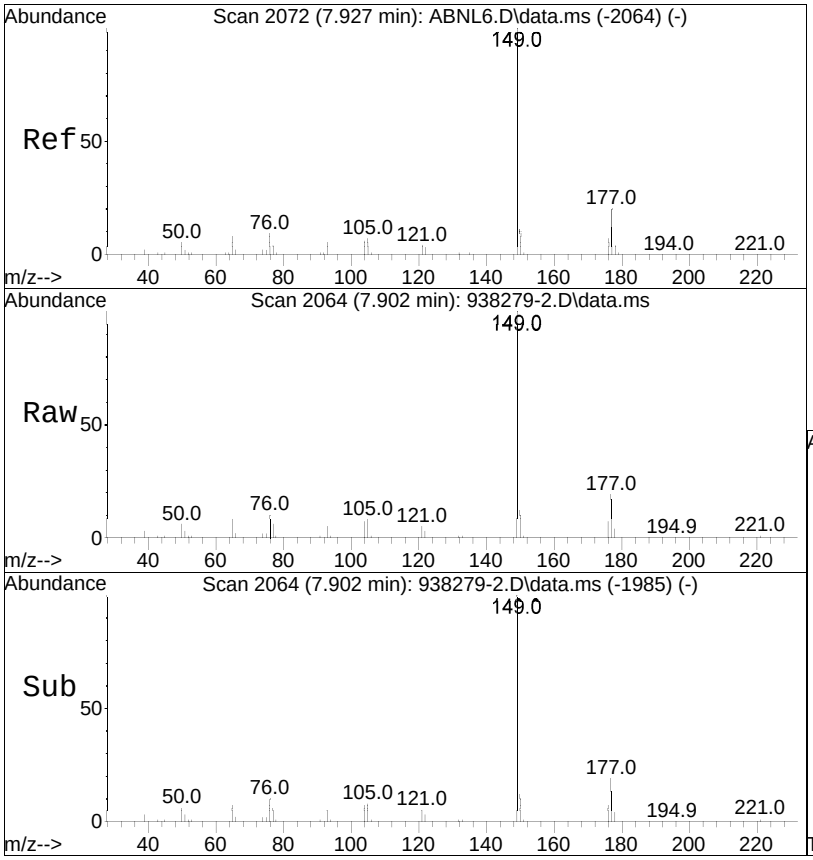


#71
2,3,4,6-Tetrachlorophenol
Concen: 3.56 ug/ml
RT: 7.765 min Scan# 2020
Delta R.T. -0.003 min
Lab File: 938279-2.D
Acq: 24 Jun 2024 5:00 pm

Tgt Ion:232 Resp: 24564

Ion	Ratio	Lower	Upper
232	100		
230	76.8	61.8	92.8
234	47.0	36.2	54.2

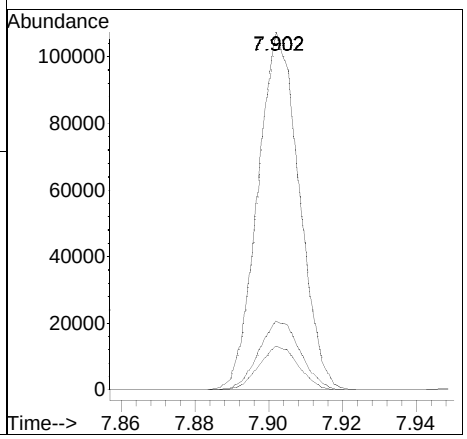


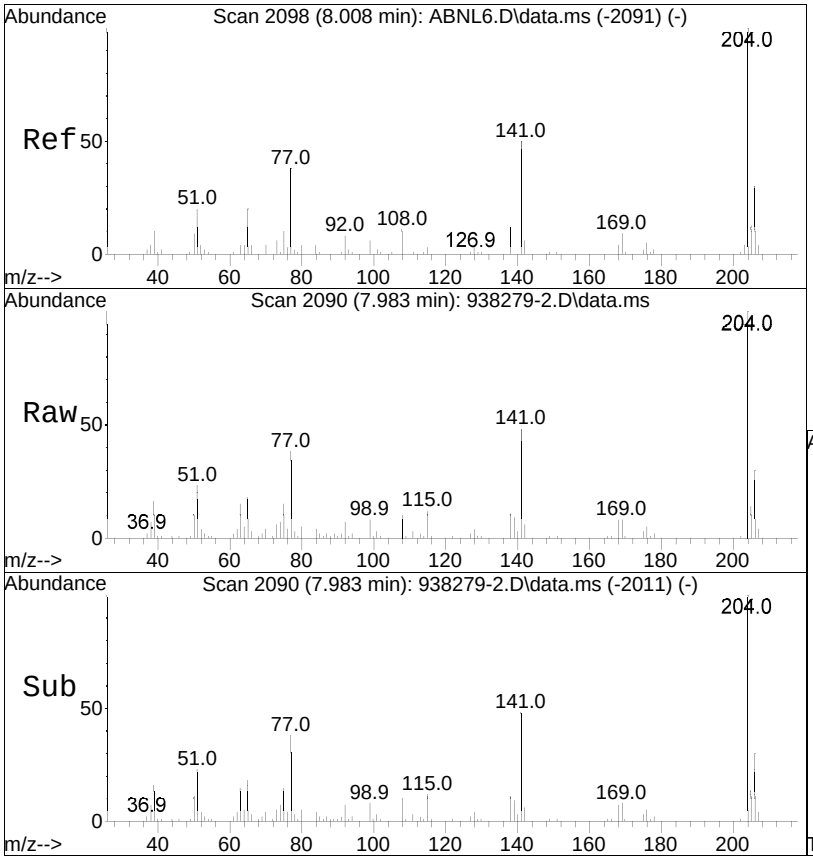


#72
Diethyl phthalate
Concen: 3.12 ug/ml
RT: 7.902 min Scan# 2064
Delta R.T. -0.003 min
Lab File: 938279-2.D
Acq: 24 Jun 2024 5:00 pm

Tgt Ion:149 Resp: 82867

Ion	Ratio	Lower	Upper
149	100		
177	19.5	16.1	24.1
150	11.7	9.4	14.2

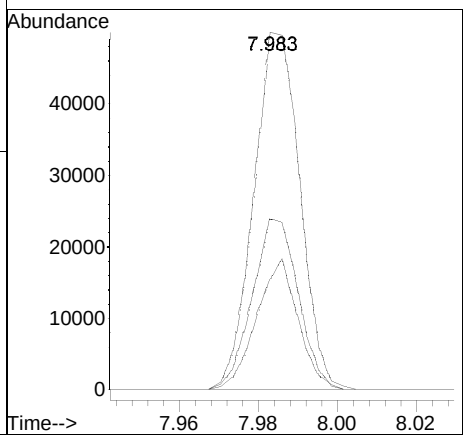


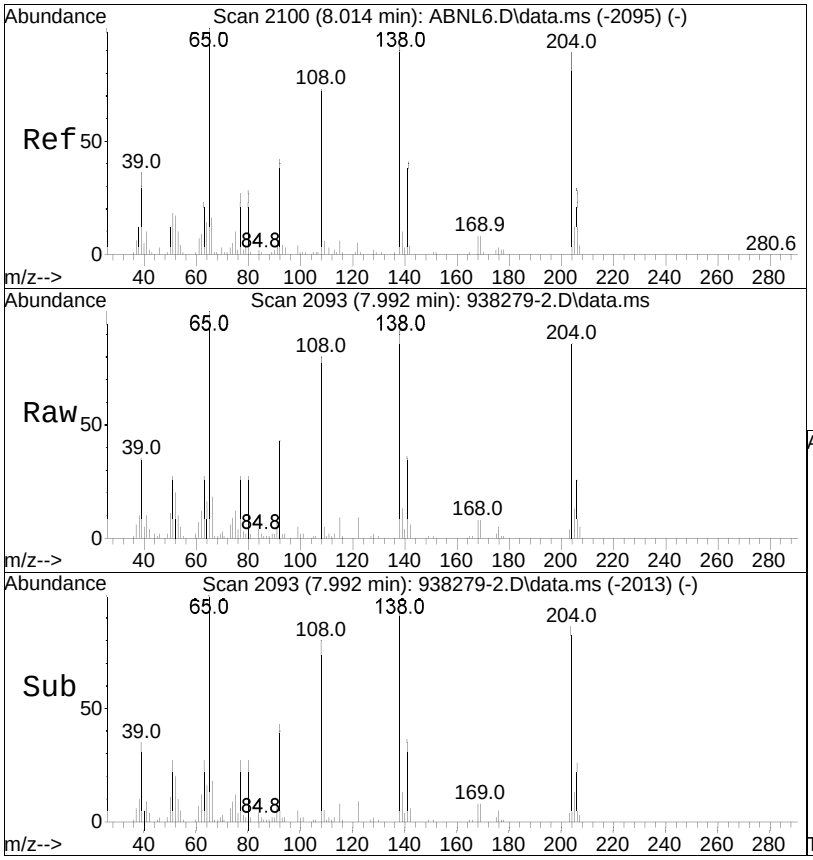


#74
4-Chlorophenyl phenyl ether
Concen: 3.17 ug/ml
RT: 7.983 min Scan# 2090
Delta R.T. -0.003 min
Lab File: 938279-2.D
Acq: 24 Jun 2024 5:00 pm

Tgt Ion:204 Resp: 40327

Ion	Ratio	Lower	Upper
204	100		
206	33.0	25.8	38.6
141	47.6	53.6	80.4#

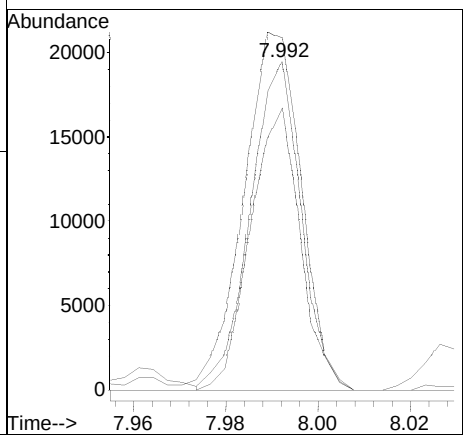


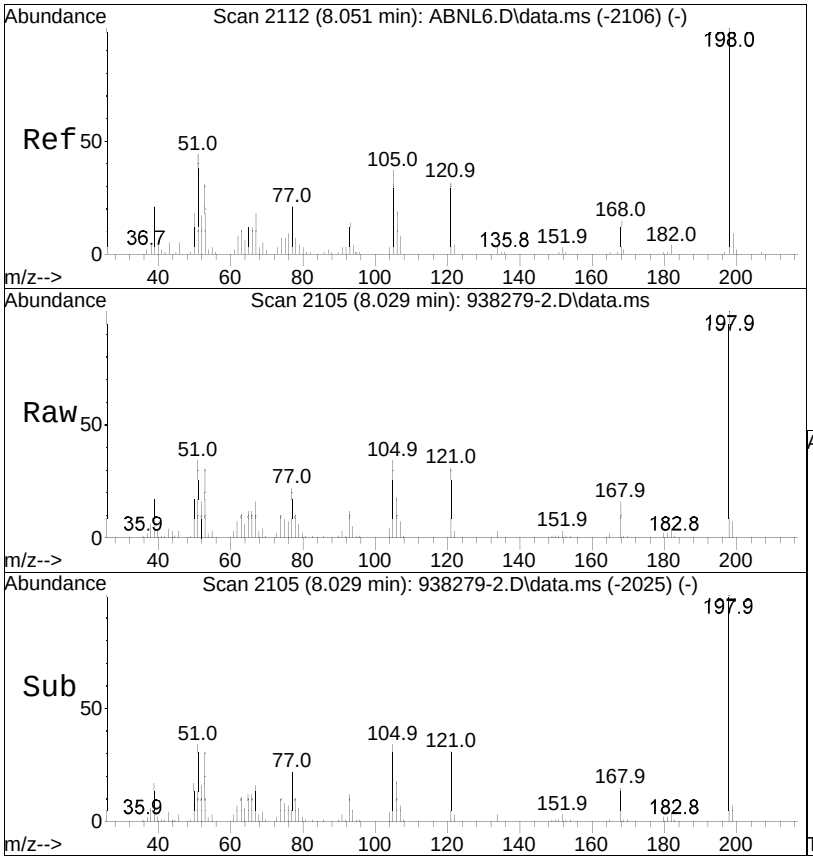


#75
4-Nitroaniline
Concen: 2.94 ug/ml
RT: 7.992 min Scan# 2093
Delta R.T. 0.000 min
Lab File: 938279-2.D
Acq: 24 Jun 2024 5:00 pm

Tgt Ion:138 Resp: 14816

Ion	Ratio	Lower	Upper
138	100		
108	84.2	52.1	78.1#
65	123.7	115.0	172.6

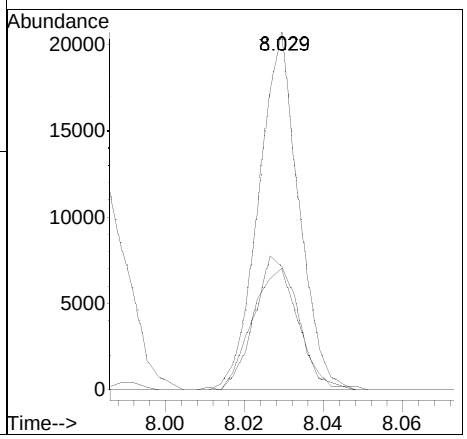


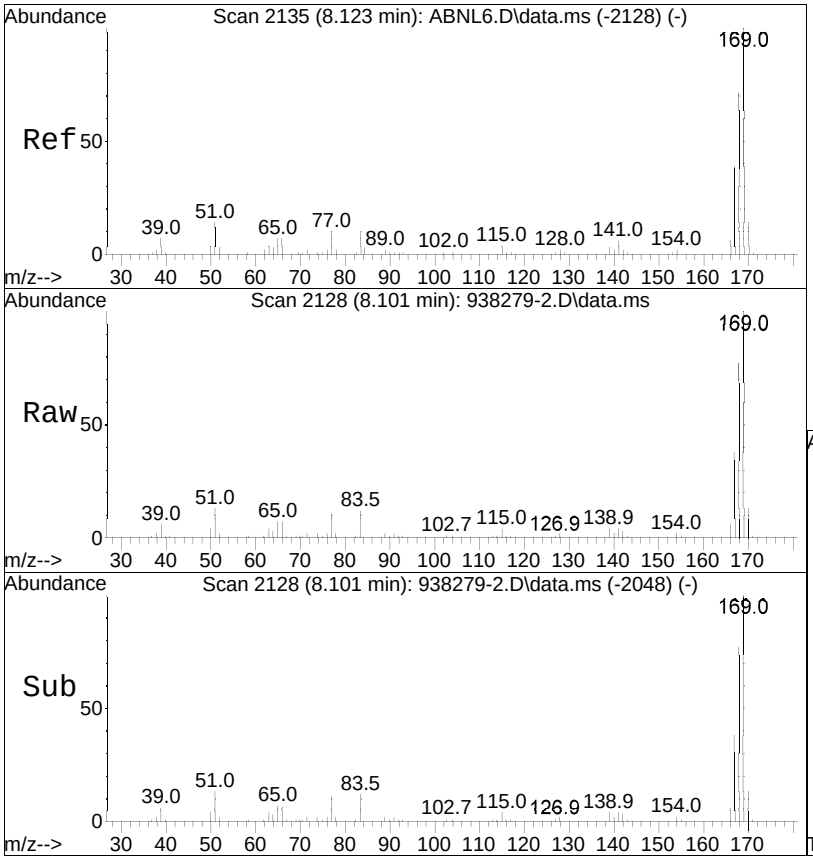


#76
4,6-Dinitro-o-cresol
Concen: 3.32 ug/ml
RT: 8.029 min Scan# 2105
Delta R.T. 0.000 min
Lab File: 938279-2.D
Acq: 24 Jun 2024 5:00 pm

Tgt Ion:198 Resp: 14564

Ion	Ratio	Lower	Upper
198	100		
51	42.2	76.0	114.0#
105	38.4	45.6	68.4#

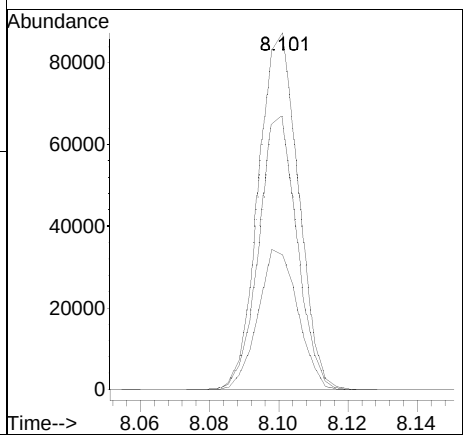


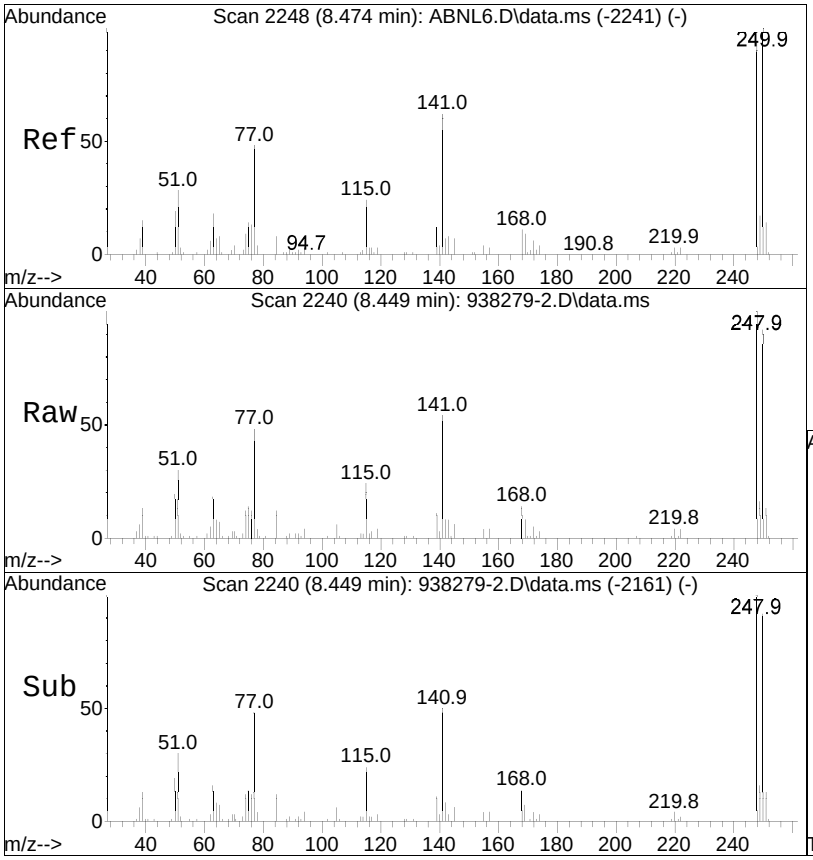


#77
NDPA/DPA
Concen: 3.27 ug/ml
RT: 8.101 min Scan# 2128
Delta R.T. 0.000 min
Lab File: 938279-2.D
Acq: 24 Jun 2024 5:00 pm

Tgt Ion:169 Resp: 69895

Ion	Ratio	Lower	Upper
169	100		
168	73.6	54.0	81.0
167	39.4	28.6	42.8

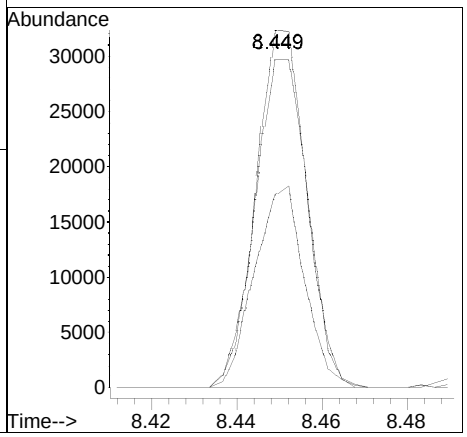


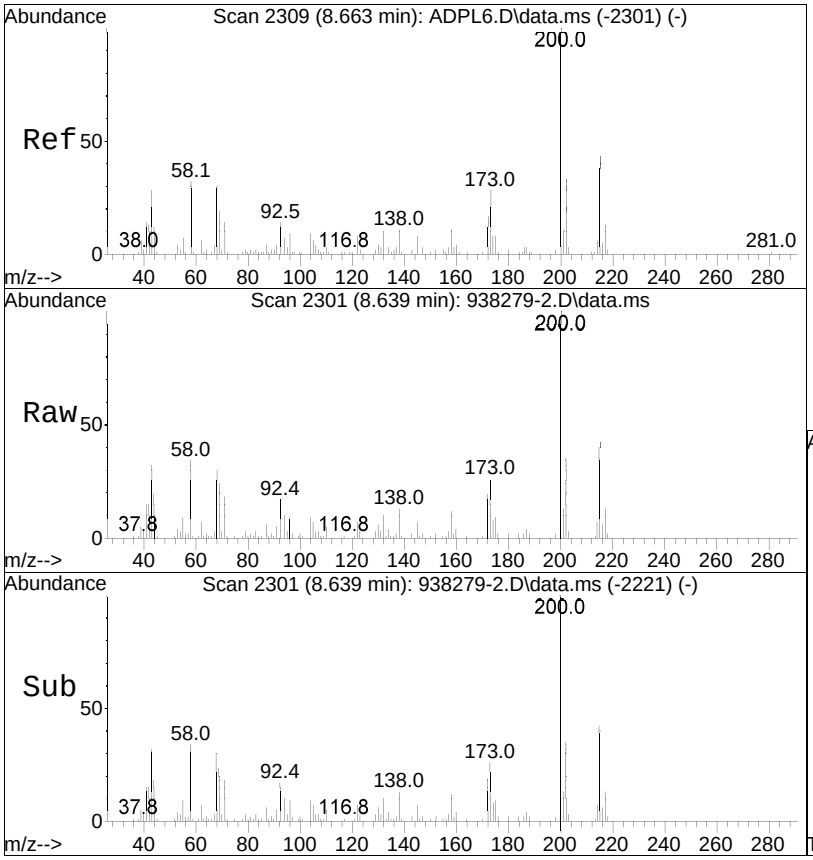


#80
4-Bromophenyl phenyl ether
Concen: 3.14 ug/ml
RT: 8.449 min Scan# 2240
Delta R.T. -0.003 min
Lab File: 938279-2.D
Acq: 24 Jun 2024 5:00 pm

Tgt Ion:248 Resp: 26569

Ion	Ratio	Lower	Upper
248	100		
141	55.8	76.6	114.8#
250	95.3	77.3	115.9

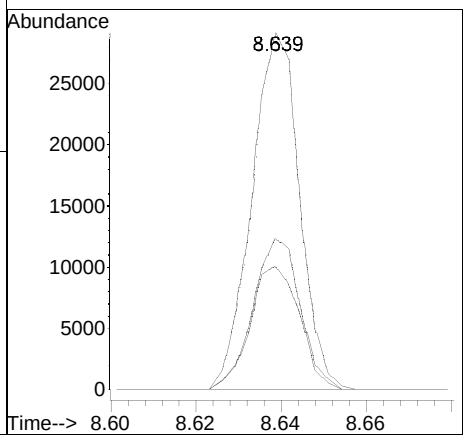


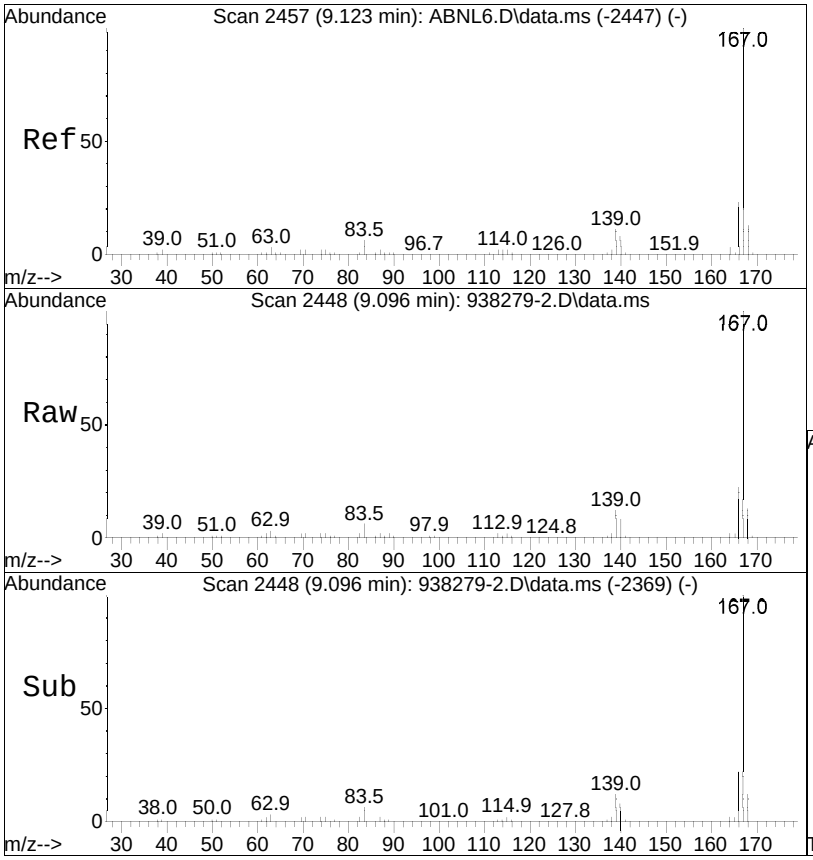


#87
Atrazine
Concen: 2.90 ug/ml
RT: 8.639 min Scan# 2301
Delta R.T. 0.000 min
Lab File: 938279-2.D
Acq: 24 Jun 2024 5:00 pm

Tgt Ion:200 Resp: 22504

Ion	Ratio	Lower	Upper
200	100		
202	35.9	25.8	38.6
215	42.0	40.2	60.4

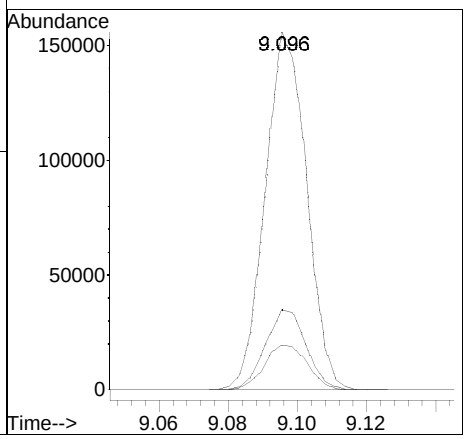


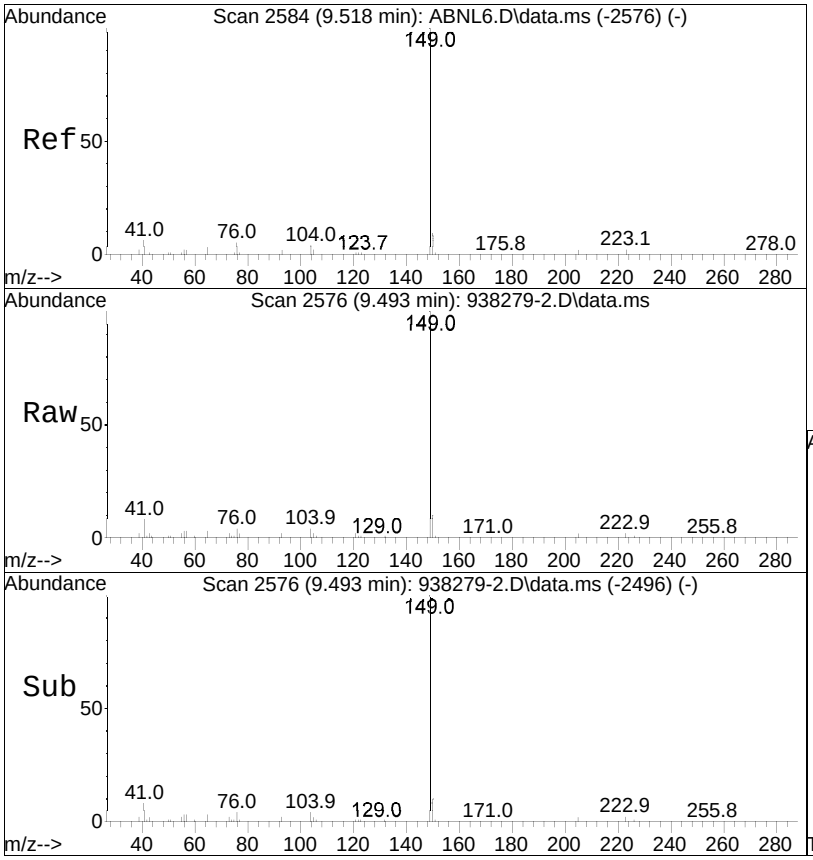


#91
Carbazole
Concen: 3.39 ug/ml
RT: 9.096 min Scan# 2448
Delta R.T. -0.003 min
Lab File: 938279-2.D
Acq: 24 Jun 2024 5:00 pm

Tgt Ion:167 Resp: 128717

Ion	Ratio	Lower	Upper
167	100		
168	13.1	10.6	15.8
166	22.2	17.4	26.0

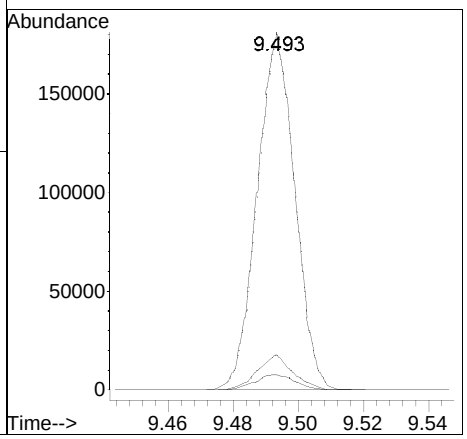


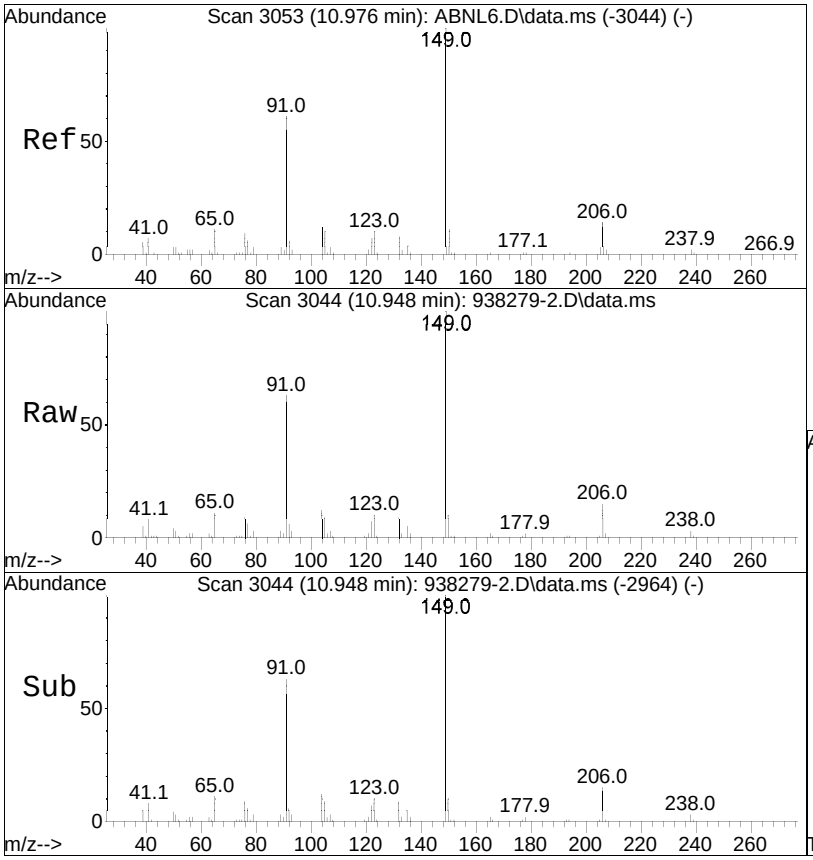


#92
Di-n-butylphthalate
Concen: 3.27 ug/ml
RT: 9.493 min Scan# 2576
Delta R.T. 0.000 min
Lab File: 938279-2.D
Acq: 24 Jun 2024 5:00 pm

Tgt Ion:149 Resp: 142706

Ion	Ratio	Lower	Upper
149	100		
150	9.3	7.0	10.6
104	4.7	4.5	6.7

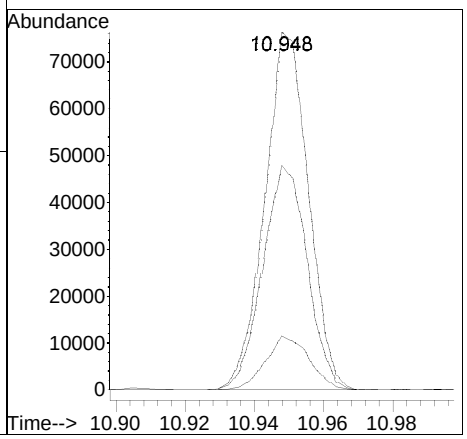


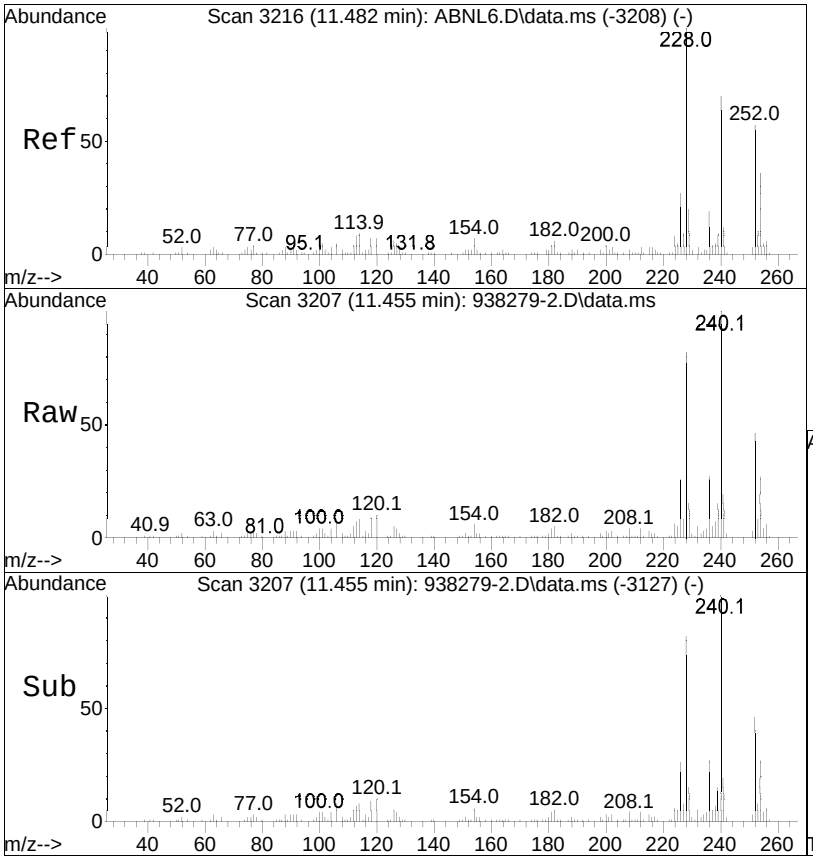


#97
Butyl benzyl phthalate
Concen: 3.39 ug/ml
RT: 10.948 min Scan# 3044
Delta R.T. 0.000 min
Lab File: 938279-2.D
Acq: 24 Jun 2024 5:00 pm

Tgt Ion:149 Resp: 66321

Ion	Ratio	Lower	Upper
149	100		
91	64.2	63.3	94.9
206	15.2	13.9	20.9

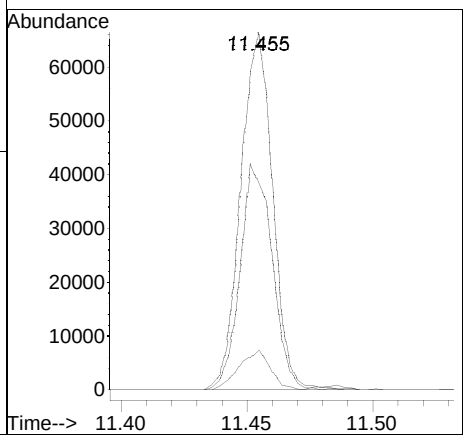


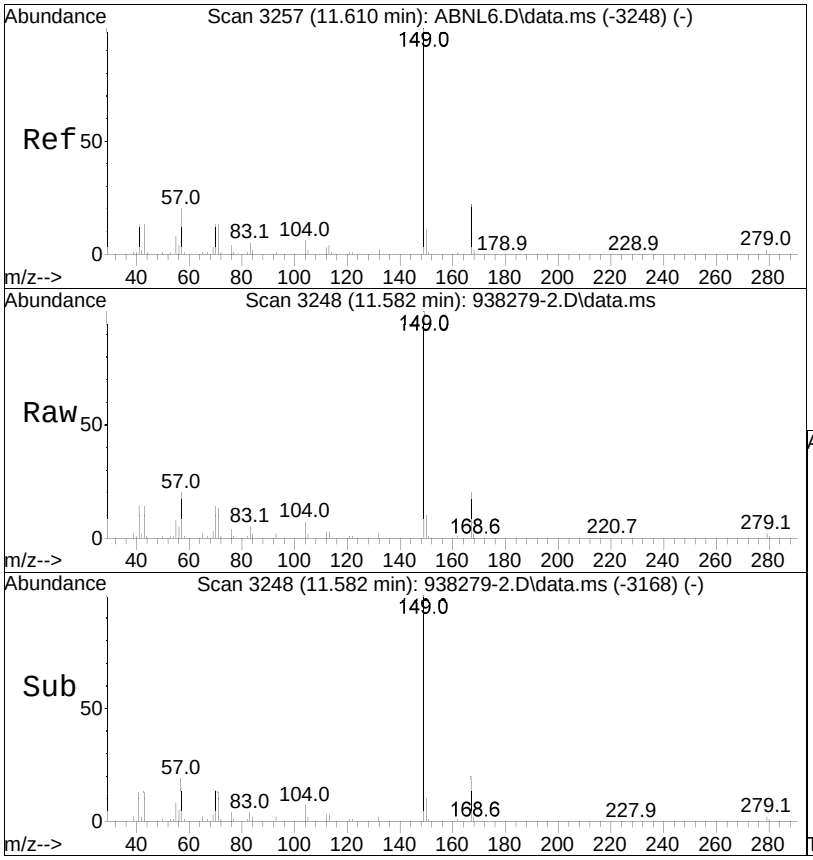


#106
3,3'-Dichlorobenzidine
Concen: 3.15 ug/ml
RT: 11.455 min Scan# 3207
Delta R.T. 0.000 min
Lab File: 938279-2.D
Acq: 24 Jun 2024 5:00 pm

Tgt Ion:252 Resp: 58419

Ion	Ratio	Lower	Upper
252	100		
126	11.1	14.5	21.7#
254	63.4	51.2	76.8

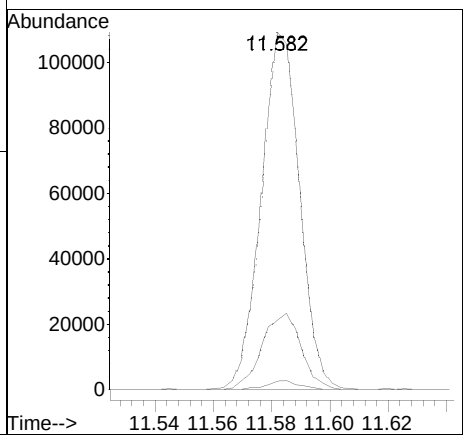


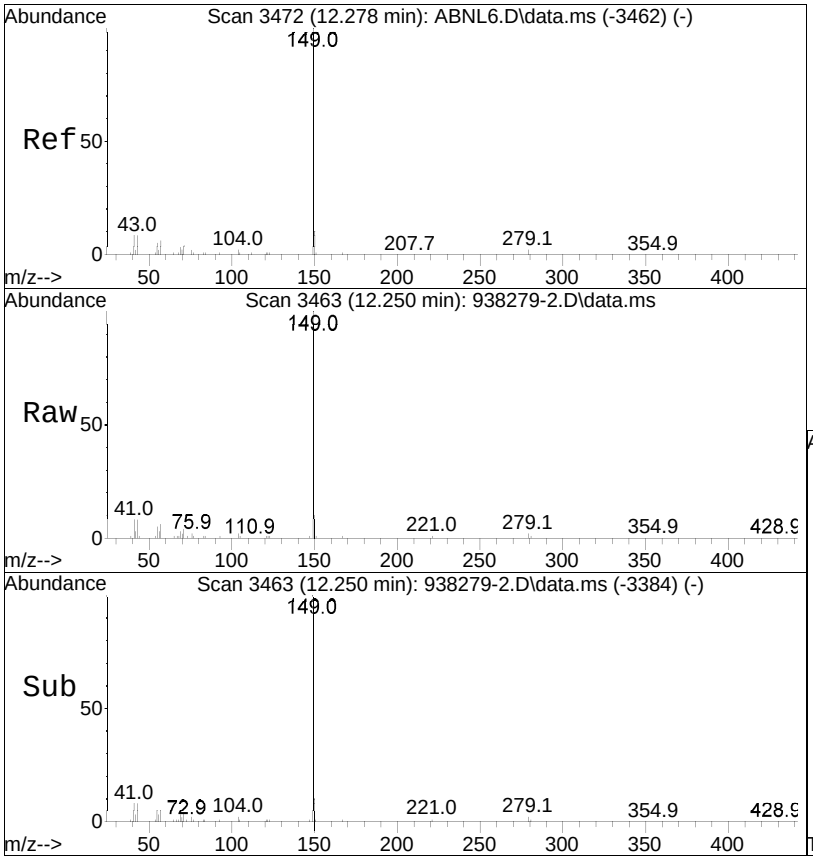


#108
Bis(2-ethylhexyl)phthalate
Concen: 3.51 ug/ml
RT: 11.582 min Scan# 3248
Delta R.T. 0.000 min
Lab File: 938279-2.D
Acq: 24 Jun 2024 5:00 pm

Tgt Ion:149 Resp: 98725

Ion	Ratio	Lower	Upper
149	100		
167	22.0	22.1	33.1#
279	1.9	3.0	4.4#

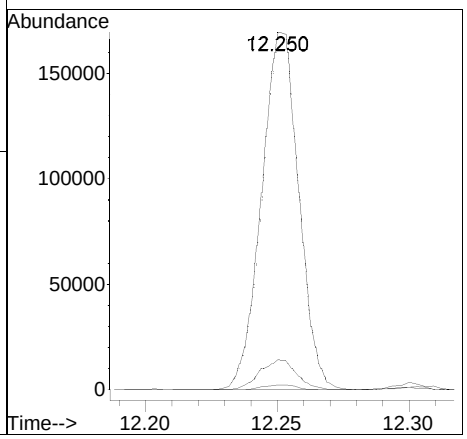




#109
Di-n-octylphthalate
Concen: 3.51 ug/ml
RT: 12.250 min Scan# 3463
Delta R.T. -0.003 min
Lab File: 938279-2.D
Acq: 24 Jun 2024 5:00 pm

Tgt Ion:149 Resp: 164239

Ion	Ratio	Lower	Upper
149	100		
43	8.6	18.8	28.2#
167	1.3	1.3	1.9



Manual Integration Report

Data Path	: I:\8270\Dakota\240624RVT\	QMethod	: FS240618RVT_14D_Dakota.m
Data File	: 938279-2.D	Operator	: Dakota:jg
Date Inj'd	: 6/24/2024 5:00 pm	Instrument	: Dakota
Sample	: WG1938279-2,32,,HNY	Quant Date	: 6/25/2024 8:13 pm

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\240625RVT\
Data File : 938723-2.D
Acq On : 25 Jun 2024 10:40 am
Operator : Dakota:ljg
Sample : WG1938723-2,32,,gmr
Misc : WG1938967,WG1938723,ical21225
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 26 08:52:56 2024
Quant Method : I:\8270\dakota\240625RVT\FS240618RVT_14D_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Jun 25 10:59:32 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\dakota\240625RVT\ABN0625.D
: 2 - I:\8270\dakota\240625RVT\ADP0625.D
: 3 - I:\8270\dakota\240625RVT\AP90625.D
Sub List : 8270TCL_REV2 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) IS1_1,4-Dichlorobenzen...	4.486	152	30130	4.000	ug/ml	0.00
Standard Area 1 = 26257			Recovery = 114.75%			
27) IS2_1,4-Dichlorobenzen...	4.486	152	30130	4.000	ug/ml	0.00
Standard Area 3 = 27010			Recovery = 111.55%			
32) IS3_1,4-Dichlorobenzen...	4.486	152	30130	4.000	ug/ml	0.00
Standard Area 2 = 29091			Recovery = 103.57%			
35) IS1_Naphthalene-d8	5.720	136	104667	4.000	ug/ml	0.00
Standard Area 1 = 95039			Recovery = 110.13%			
55) IS2_Naphthalene-d8	5.720	136	104667	4.000	ug/ml	0.00
Standard Area 3 = 101426			Recovery = 103.20%			
63) IS1_Acenaphthene-d10	7.417	164	73044	4.000	ug/ml	0.00
Standard Area 1 = 67008			Recovery = 109.01%			
83) IS2_Acenaphthene-d10	7.417	164	73044	4.000	ug/ml	0.00
Standard Area 3 = 69385			Recovery = 105.27%			
86) IS3_Acenaphthene-d10	7.417	164	73044	4.000	ug/ml	0.00
Standard Area 2 = 69313			Recovery = 105.38%			
88) IS1_Phenanthrene-d10	8.840	188	170021	4.000	ug/ml	0.00
Standard Area 1 = 156879			Recovery = 108.38%			
100) IS3_Phenanthrene-d10	8.840	188	170021	4.000	ug/ml	0.00
Standard Area 2 = 162640			Recovery = 104.54%			
104) IS1_Chrysene-d12	11.439	240	176864	4.000	ug/ml	0.00
Standard Area 1 = 168902			Recovery = 104.71%			
113) IS1_Perylene-d12	12.881	264	209230	4.000	ug/ml	0.00
Standard Area 1 = 203294			Recovery = 102.92%			
System Monitoring Compounds						
4) 2-Fluorophenol	3.215	112	17741	2.292	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 114.60%#			
7) Phenol-d6	4.175	99	18310	1.874	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 93.70%			
19) Nitrobenzene-d5	5.030	82	13358	1.310	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 131.00%#			
46) 2-Fluorobiphenyl	6.789	172	35092	1.338	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 133.80%#			
79) 2,4,6-Tribromophenol	8.178	330	14206	2.976	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 148.80%#			

Data Path : I:\8270\Dakota\240625RVT\
Data File : 938723-2.D
Acq On : 25 Jun 2024 10:40 am
Operator : Dakota:ljg
Sample : WG1938723-2,32,,gmr
Misc : WG1938967,WG1938723,ical21225
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 26 08:52:56 2024
Quant Method : I:\8270\dakota\240625RVT\FS240618RVT_14D_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Jun 25 10:59:32 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\dakota\240625RVT\ABN0625.D
: 2 - I:\8270\dakota\240625RVT\ADP0625.D
: 3 - I:\8270\dakota\240625RVT\AP90625.D
Sub List : 8270TCL_REV2 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
96) 4-Terphenyl-d14	10.410	244	62549	1.415	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 141.50%#			
Target Compounds						Qvalue
6) 2-Chlorophenol	4.281	128	23704	2.736	ug/ml#	90
8) Phenol	4.188	94	20642M6	1.813	ug/ml	
9) Bis(2-chloroethyl)ether	4.253	93	19263	2.580	ug/ml	97
14) Bis(2-chloroisopropyl)...	4.787	45	27101	2.434	ug/ml#	41
15) 2-Methylphenol	4.778	108	19614	2.507	ug/ml	98
17) n-Nitrosodi-n-propylamine	4.915	70	17940	2.611	ug/ml#	87
18) 3-Methylphenol/4-Methy...	4.934	108	21035	2.549	ug/ml	97
20) Nitrobenzene	5.049	77	26168	2.676	ug/ml	90
21) Isophorone	5.291	82	44652	2.606	ug/ml#	92
22) 2-Nitrophenol	5.362	139	11560	2.384	ug/ml	96
23) 2,4-Dimethylphenol	5.443	107	19568	2.369	ug/ml	98
24) Bis(2-chloroethoxy)met...	5.530	93	27340	2.595	ug/ml#	93
25) 2,4-Dichlorophenol	5.602	162	26910	2.887	ug/ml#	91
28) Benzaldehyde	4.054	105	18904	2.422	ug/ml	98
29) Acetophenone	4.890	105	32675	2.449	ug/ml#	79
38) 4-Chloroaniline	5.816	65	9849	2.965	ug/ml	95
40) p-Chloro-m-cresol	6.314	107	22188	2.915	ug/ml	89
43) Hexachlorocyclopentadiene	6.590	237	15949	2.101	ug/ml	98
44) 2,4,6-Trichlorophenol	6.705	196	22471	2.901	ug/ml	98
45) 2,4,5-Trichlorophenol	6.736	196	25964	3.136	ug/ml	97
48) 2-Nitroaniline	6.994	138	17314	2.989	ug/ml#	80
51) Dimethyl phthalate	7.199	163	74334	2.752	ug/ml#	98
53) 2,6-Dinitrotoluene	7.240	165	15048	2.821	ug/ml#	77
60) Caprolactam	6.112	55	4753	1.358	ug/ml#	53
61) 1,2,4,5-Tetrachloroben...	6.587	216	32689	2.501	ug/ml#	96
62) Biphenyl	6.879	154	69152	2.472	ug/ml	98
64) 3-Nitroaniline	7.392	138	15303	2.823	ug/ml#	90
66) 2,4-Dinitrophenol	7.492	184	8815	2.417	ug/ml	88
67) Dibenzofuran	7.616	168	89614	2.579	ug/ml	89
68) 2,4-Dinitrotoluene	7.622	165	20600	2.791	ug/ml	93
69) 4-Nitrophenol	7.588	65	11525	2.538	ug/ml#	86
71) 2,3,4,6-Tetrachlorophenol	7.750	232	21117	2.885	ug/ml	95
72) Diethyl phthalate	7.886	149	76948	2.731	ug/ml	99

Data Path : I:\8270\Dakota\240625RVT\
Data File : 938723-2.D
Acq On : 25 Jun 2024 10:40 am
Operator : Dakota:ljg
Sample : WG1938723-2,32,,gmr
Misc : WG1938967,WG1938723,ical21225
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 26 08:52:56 2024
Quant Method : I:\8270\dakota\240625RVT\FS240618RVT_14D_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Jun 25 10:59:32 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\dakota\240625RVT\ABN0625.D
: 2 - I:\8270\dakota\240625RVT\ADP0625.D
: 3 - I:\8270\dakota\240625RVT\AP90625.D
Sub List : 8270TCL_REV2 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
74) 4-Chlorophenyl phenyl ...	7.967	204	35358	2.625	ug/ml#	86
75) 4-Nitroaniline	7.976	138	14530	2.722	ug/ml#	81
76) 4,6-Dinitro-o-cresol	8.011	198	13071	2.807	ug/ml#	57
77) NDPA/DPA	8.085	169	61008	2.688	ug/ml	90
80) 4-Bromophenyl phenyl e...	8.433	248	23588	2.632	ug/ml#	78
87) Atrazine	8.623	200	22276	2.711	ug/ml	92
91) Carbazole	9.080	167	120730	2.875	ug/ml	99
92) Di-n-butylphthalate	9.478	149	138893	2.881	ug/ml	99
97) Butyl benzyl phthalate	10.932	149	64703	2.987	ug/ml#	84
106) 3,3'-Dichlorobenzidine	11.436	252	57436	2.624	ug/ml#	95
108) Bis(2-ethylhexyl)phtha...	11.566	149	99782	3.008	ug/ml#	88
109) Di-n-octylphthalate	12.231	149	166781	3.015	ug/ml#	71

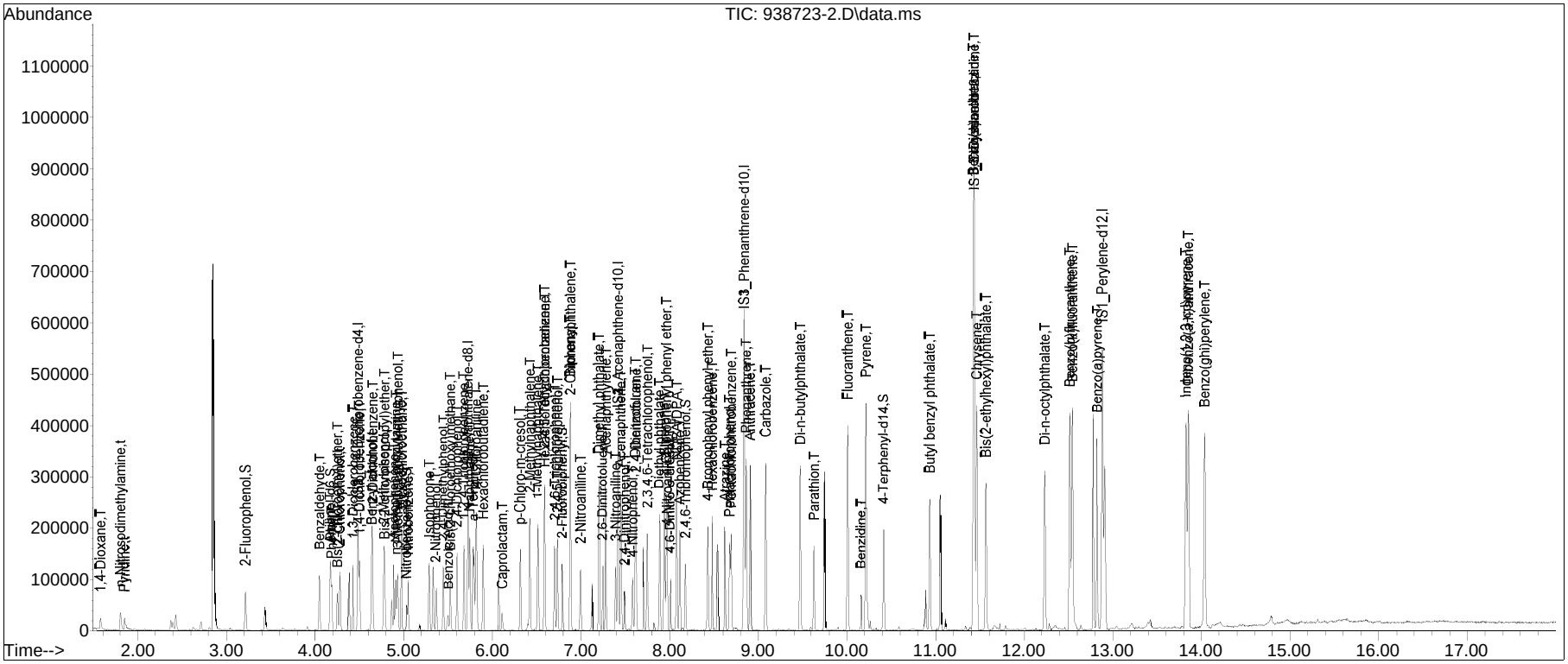
(#) = qualifier out of range (m) = manual integration (+) = signals summed

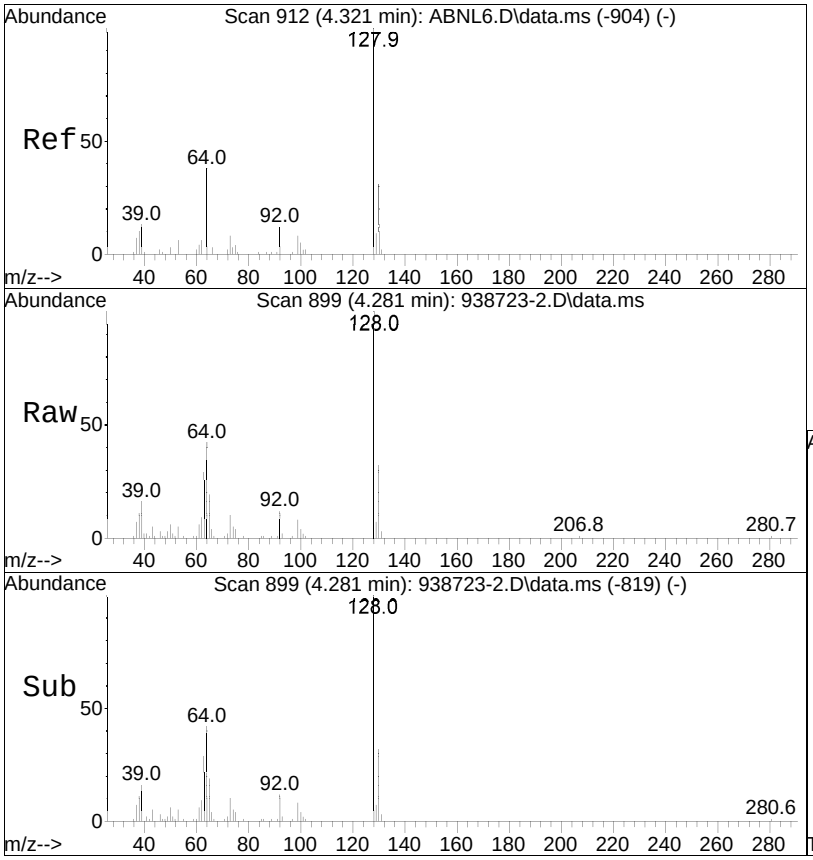
Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\240625RVT\
Data File : 938723-2.D
Acq On : 25 Jun 2024 10:40 am
Operator : Dakota:ljg
Sample : WG1938723-2,32,,gmr
Misc : WG1938967,WG1938723,ical21225
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 26 08:52:56 2024
Quant Method : I:\8270\dakota\240625RVT\FS240618RVT_14D_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Jun 25 10:59:32 2024
Response via : Initial Calibration

Sub List : 8270TCL_REV2 - TCL/CT/MA5RVT\AP90625.D•

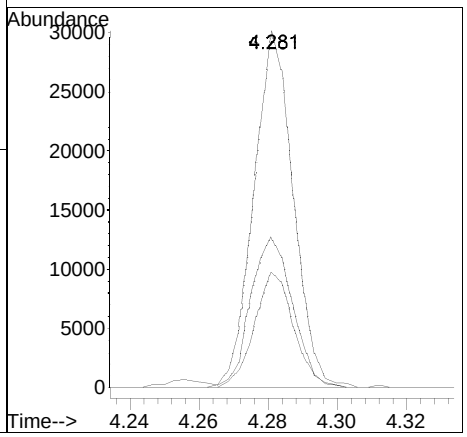


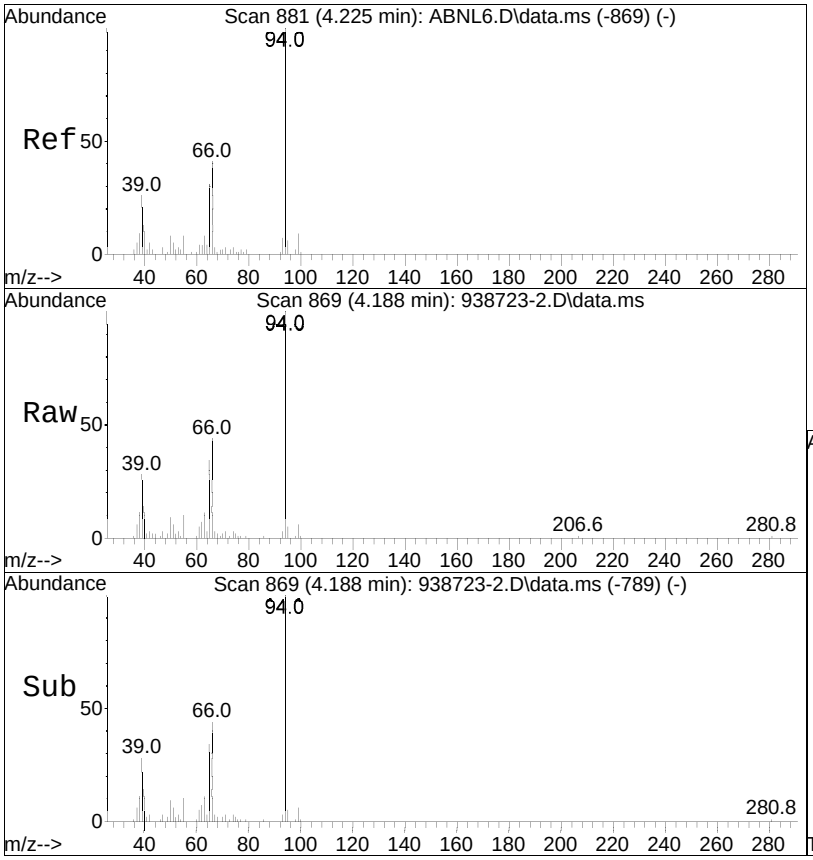


#6
2-Chlorophenol
Concen: 2.74 ug/ml
RT: 4.281 min Scan# 899
Delta R.T. -0.000 min
Lab File: 938723-2.D
Acq: 25 Jun 2024 10:40 am

Tgt Ion:128 Resp: 23704

Ion	Ratio	Lower	Upper
128	100		
64	44.7	45.1	67.7#
130	32.3	26.2	39.4

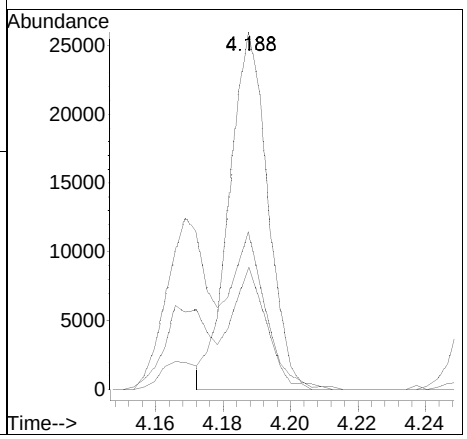


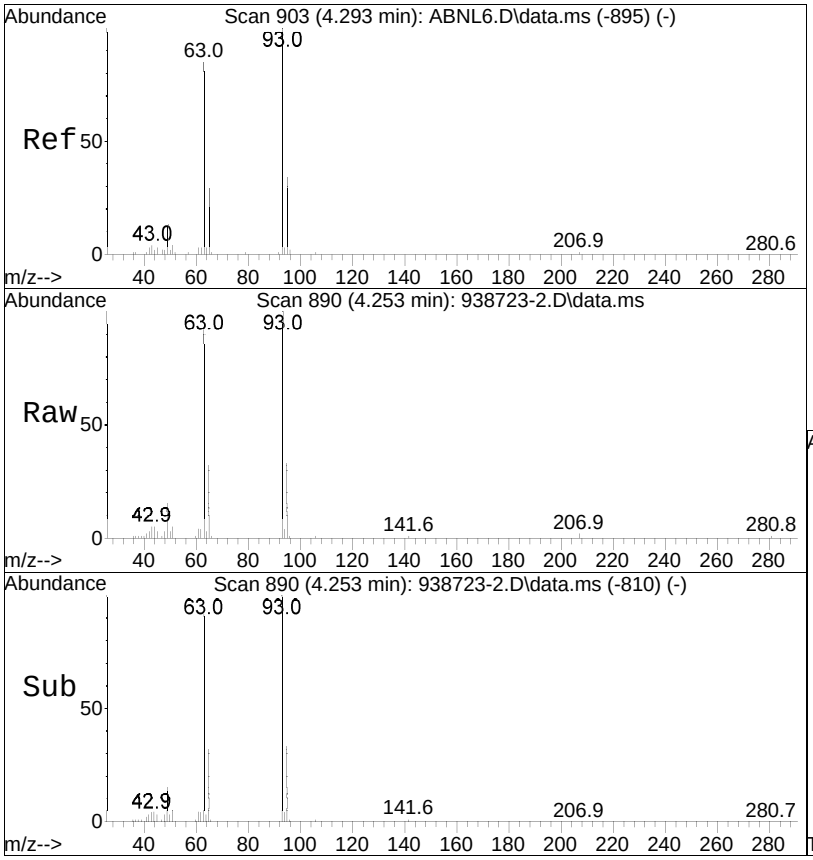


#8
Phenol
Concen: 1.81 ug/ml M6
RT: 4.188 min Scan# 869
Delta R.T. -0.000 min
Lab File: 938723-2.D
Acq: 25 Jun 2024 10:40 am

Tgt Ion: 94 Resp: 20642

Ion	Ratio	Lower	Upper
94	100		
65	30.1	26.0	39.0
66	39.3	33.8	50.8

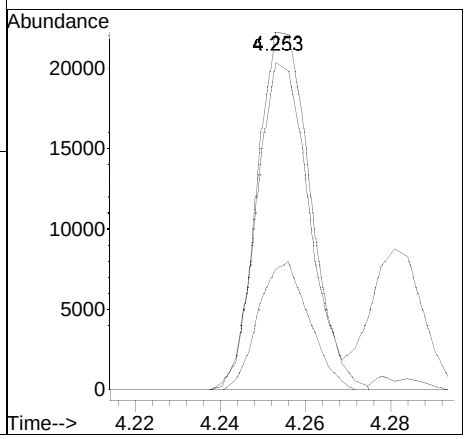


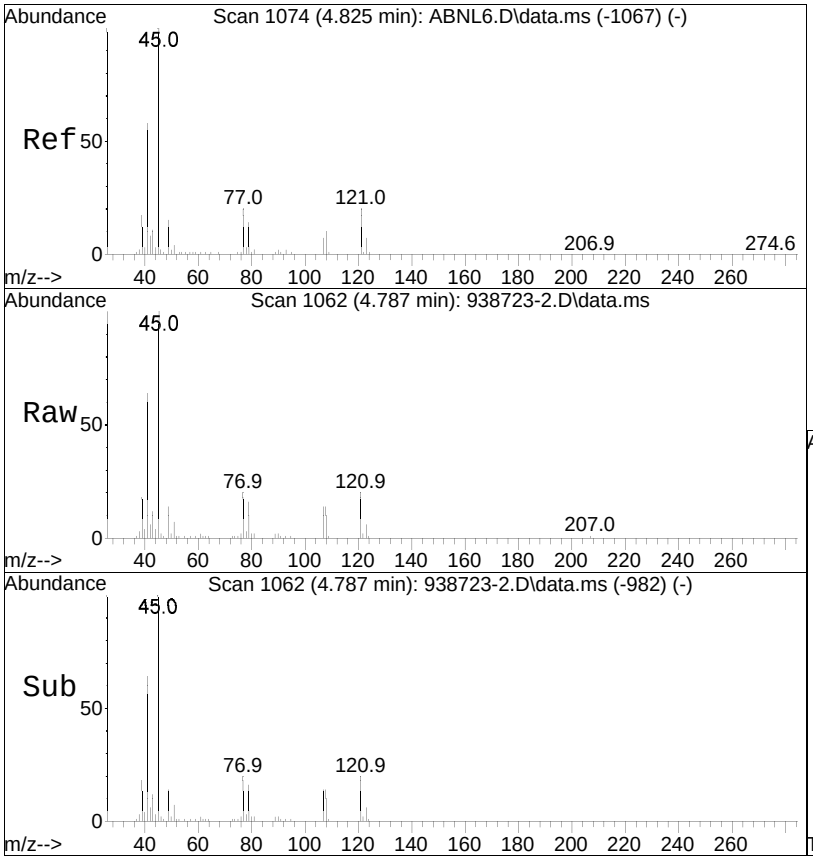


#9
Bis(2-chloroethyl)ether
Concen: 2.58 ug/ml
RT: 4.253 min Scan# 890
Delta R.T. -0.003 min
Lab File: 938723-2.D
Acq: 25 Jun 2024 10:40 am

Tgt Ion: 93 Resp: 19263

Ion	Ratio	Lower	Upper
93	100		
63	90.1	74.6	111.8
95	34.2	25.9	38.9

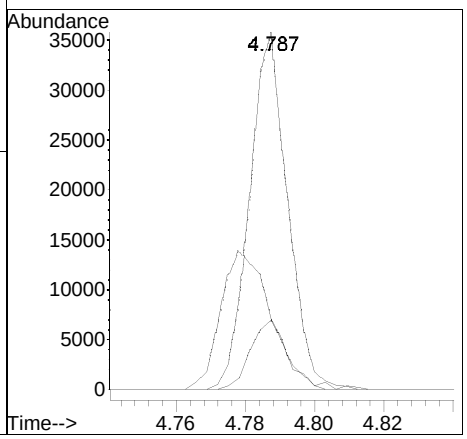


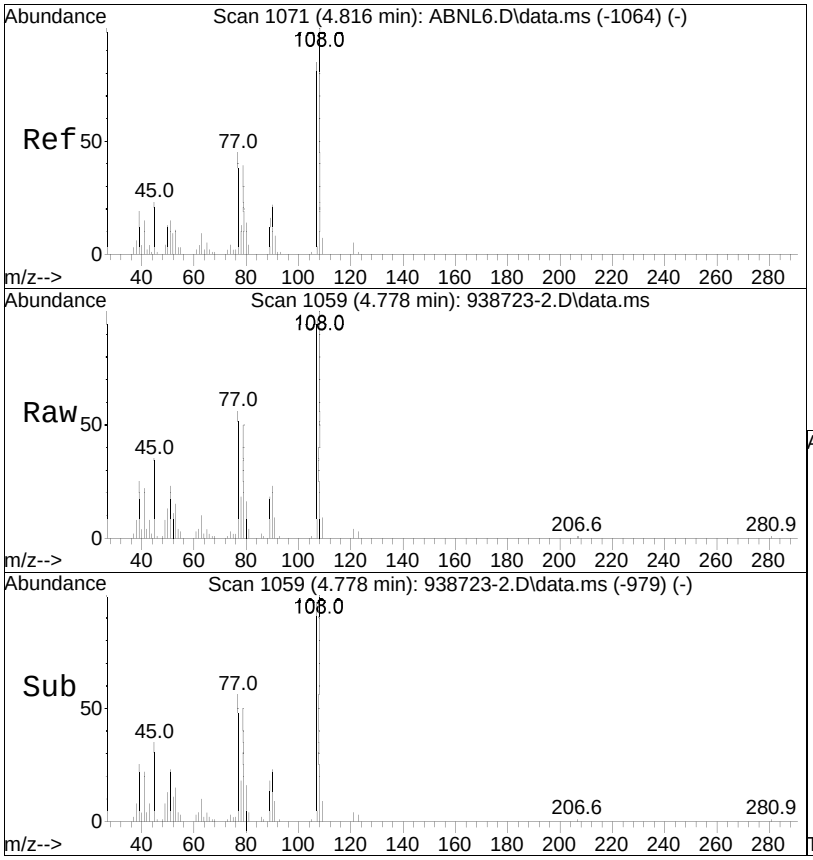


#14
Bis(2-chloroisopropyl)ether
Concen: 2.43 ug/ml
RT: 4.787 min Scan# 1062
Delta R.T. -0.000 min
Lab File: 938723-2.D
Acq: 25 Jun 2024 10:40 am

Tgt Ion: 45 Resp: 27101

Ion	Ratio	Lower	Upper
45	100		
121	18.8	9.8	14.6#
77	52.0	6.1	9.1#

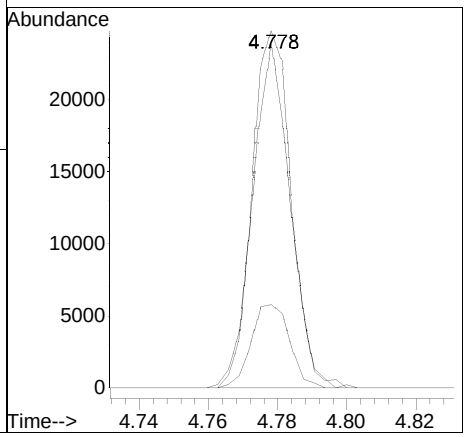


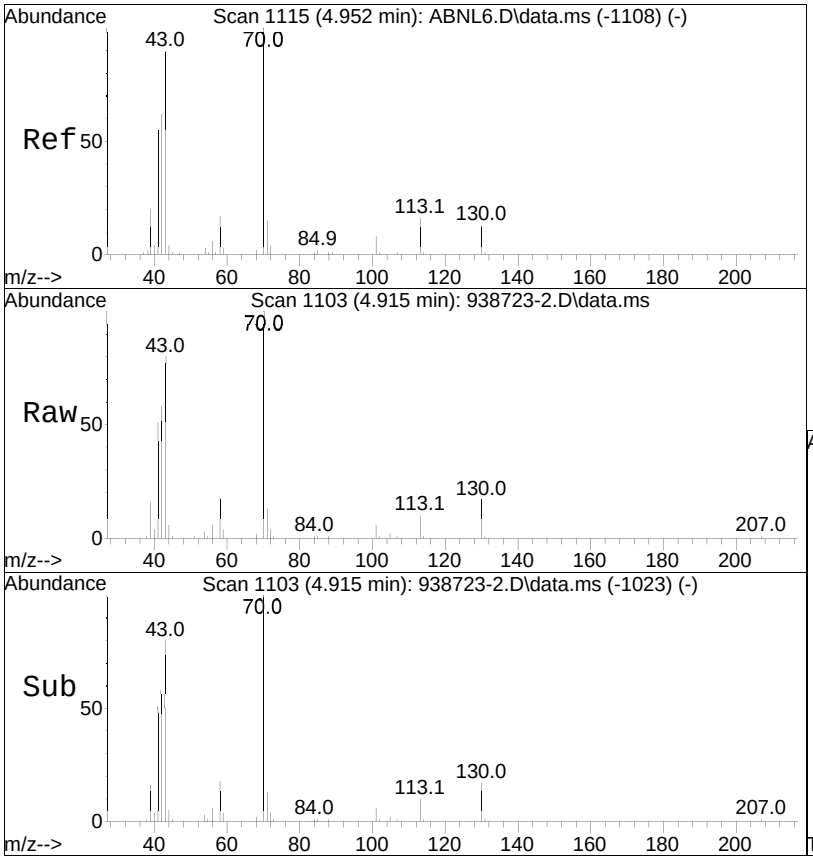


#15
2-Methylphenol
Concen: 2.51 ug/ml
RT: 4.778 min Scan# 1059
Delta R.T. -0.000 min
Lab File: 938723-2.D
Acq: 25 Jun 2024 10:40 am

Tgt Ion:108 Resp: 19614

Ion	Ratio	Lower	Upper
108	100		
107	90.6	70.7	106.1
90	22.8	18.7	28.1

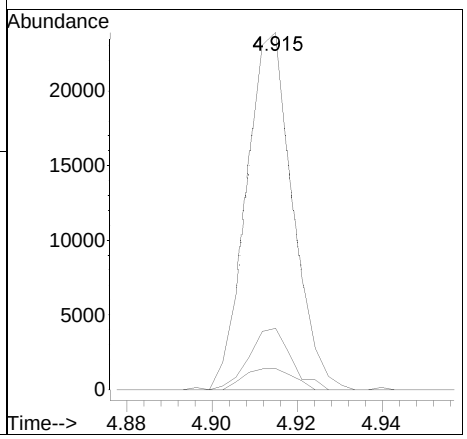


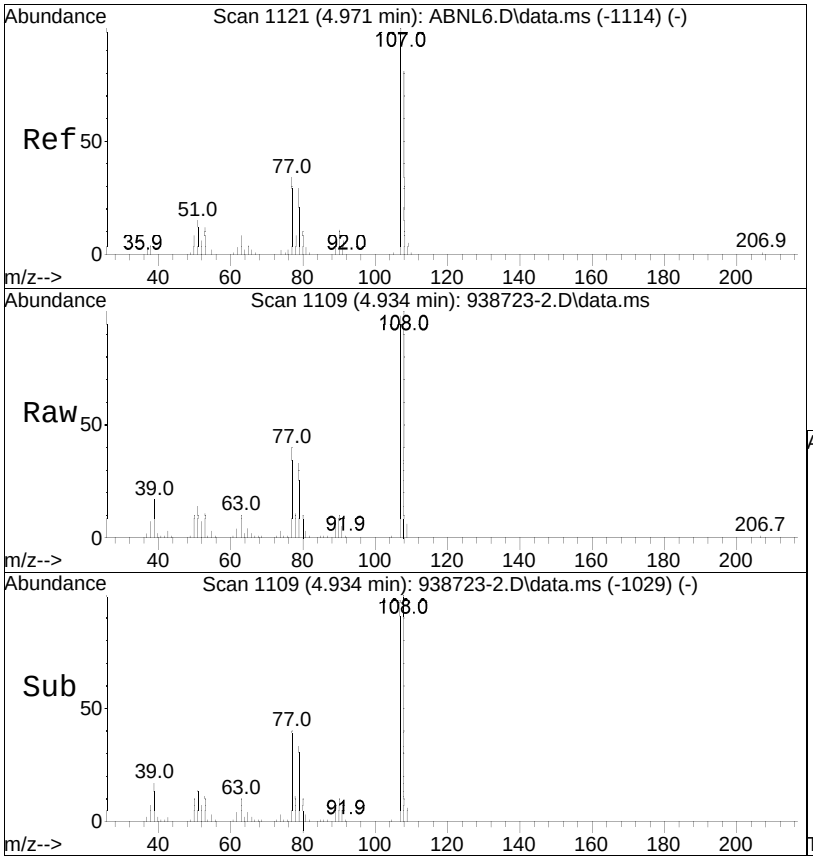


#17
n-Nitrosodi-n-propylamine
Concen: 2.61 ug/ml
RT: 4.915 min Scan# 1103
Delta R.T. -0.000 min
Lab File: 938723-2.D
Acq: 25 Jun 2024 10:40 am

Tgt Ion: 70 Resp: 17940

Ion	Ratio	Lower	Upper
70	100		
130	15.7	18.2	27.4#
101	6.5	7.8	11.8#

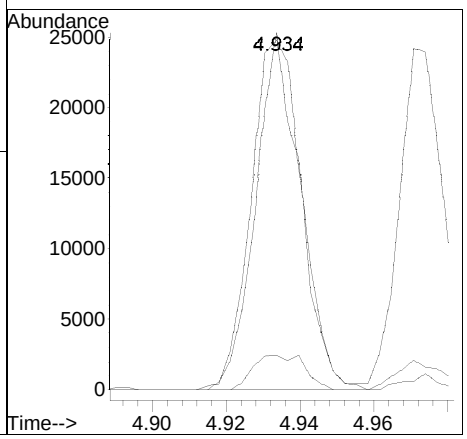


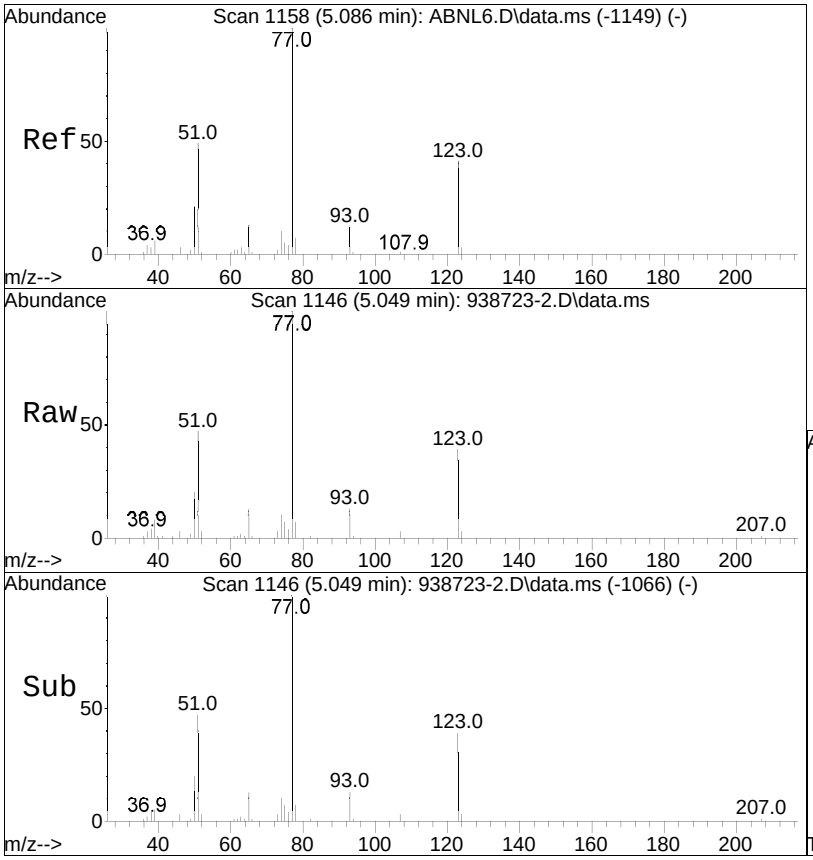


#18
3-Methylphenol/4-Methylphenol
Concen: 2.55 ug/ml
RT: 4.934 min Scan# 1109
Delta R.T. -0.000 min
Lab File: 938723-2.D
Acq: 25 Jun 2024 10:40 am

Tgt Ion:108 Resp: 21035

Ion	Ratio	Lower	Upper
108	100		
107	113.6	88.6	132.8
90	11.4	8.8	13.2

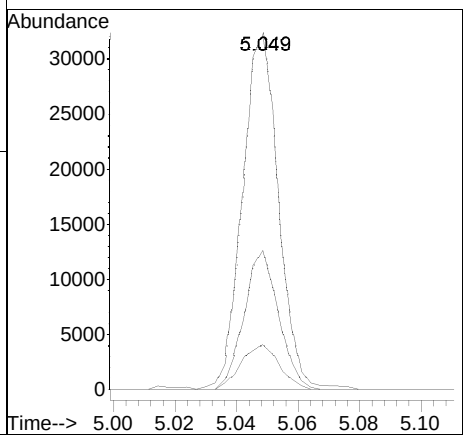


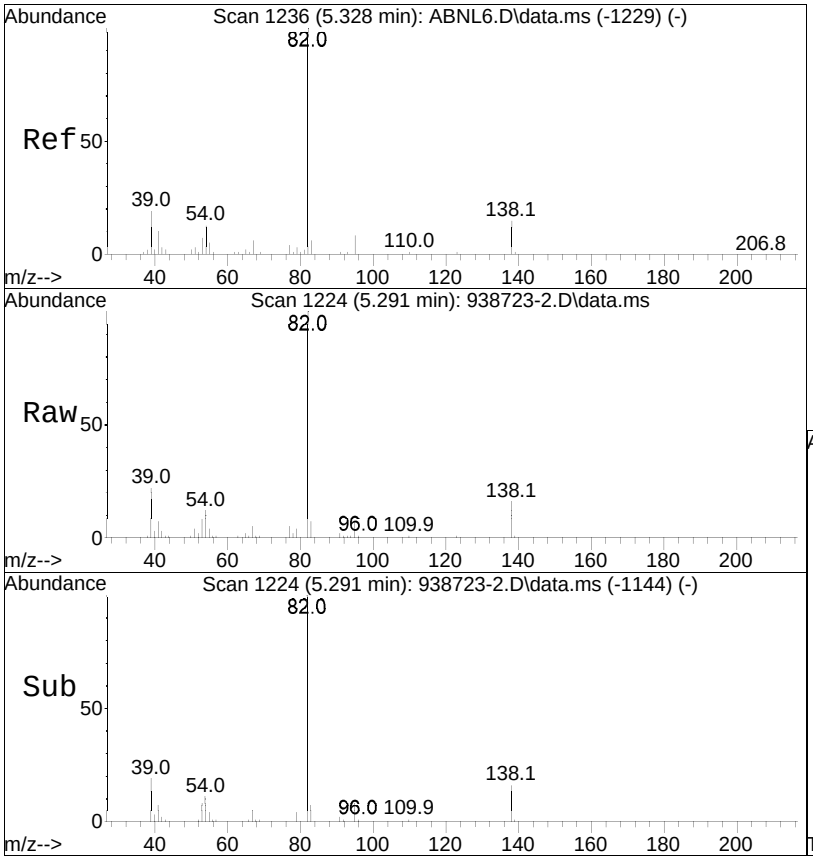


#20
Nitrobenzene
Concen: 2.68 ug/ml
RT: 5.049 min Scan# 1146
Delta R.T. -0.000 min
Lab File: 938723-2.D
Acq: 25 Jun 2024 10:40 am

Tgt Ion: 77 Resp: 26168

Ion	Ratio	Lower	Upper
77	100		
123	37.5	36.3	54.5
65	13.5	11.6	17.4

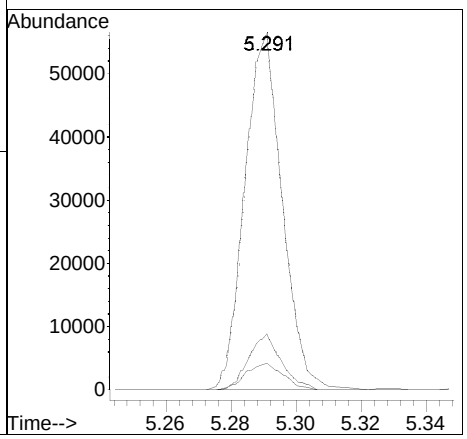


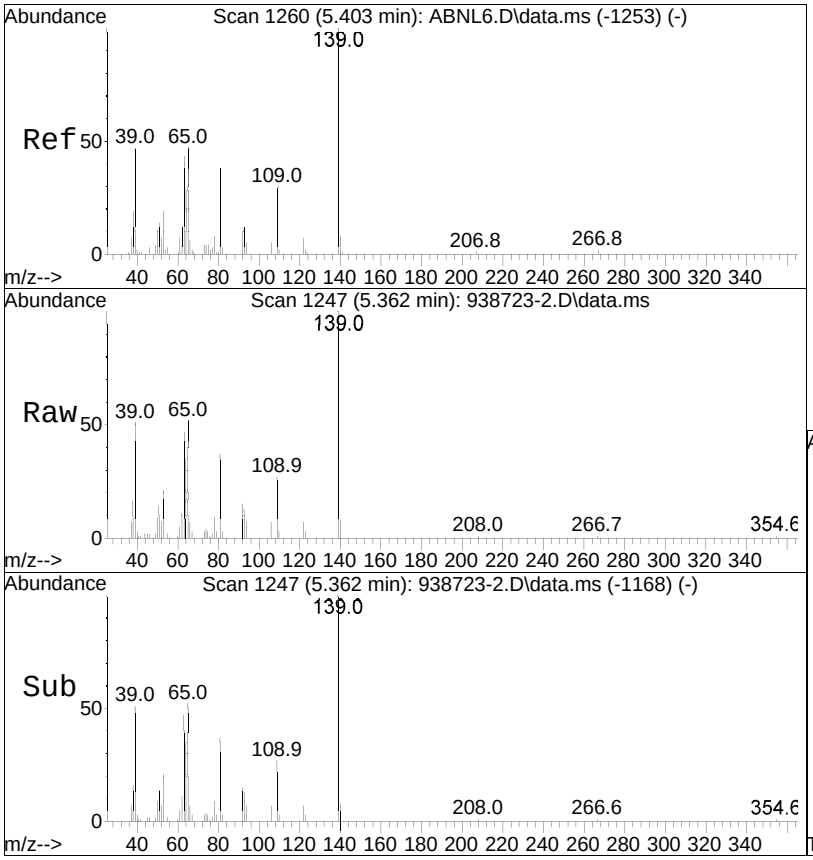


#21
Isophorone
Concen: 2.61 ug/ml
RT: 5.291 min Scan# 1224
Delta R.T. -0.000 min
Lab File: 938723-2.D
Acq: 25 Jun 2024 10:40 am

Tgt Ion: 82 Resp: 44652

Ion	Ratio	Lower	Upper
82	100		
138	13.8	14.7	22.1#
95	7.5	5.2	7.8

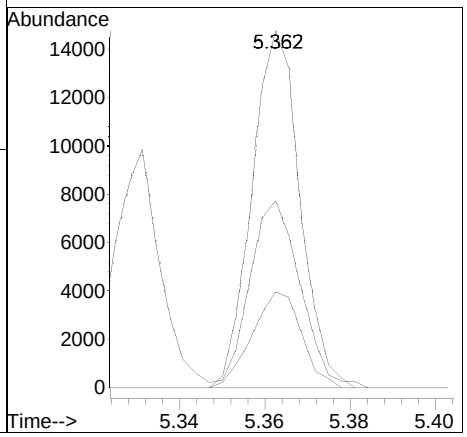


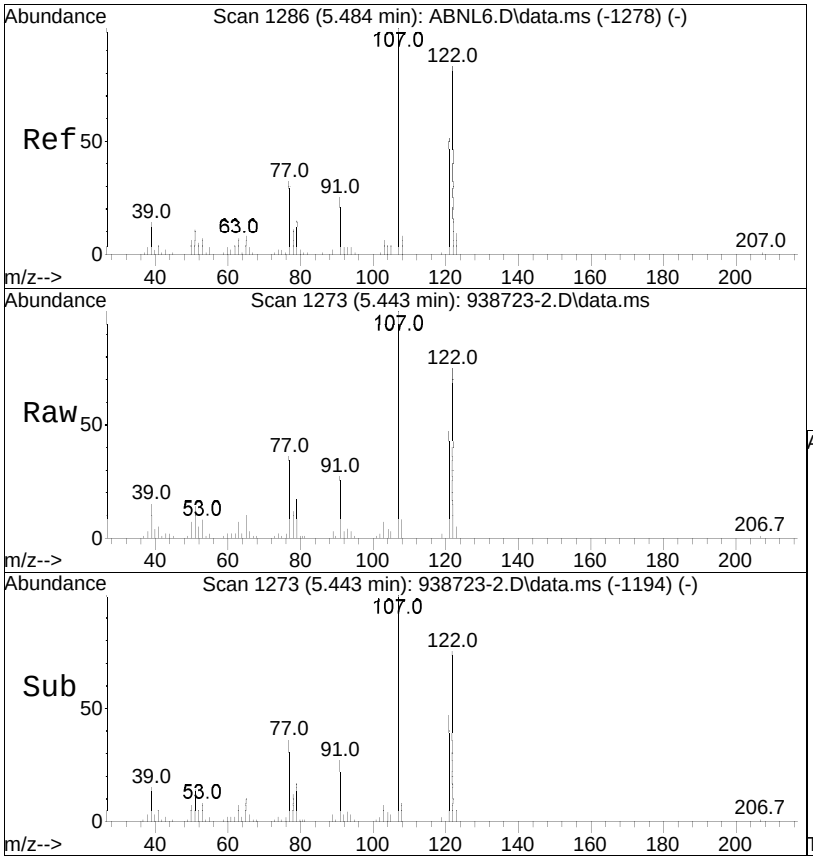


#22
2-Nitrophenol
Concen: 2.38 ug/ml
RT: 5.362 min Scan# 1247
Delta R.T. -0.003 min
Lab File: 938723-2.D
Acq: 25 Jun 2024 10:40 am

Tgt Ion:139 Resp: 11560

Ion	Ratio	Lower	Upper
139	100		
109	27.7	19.4	29.0
65	55.2	46.1	69.1

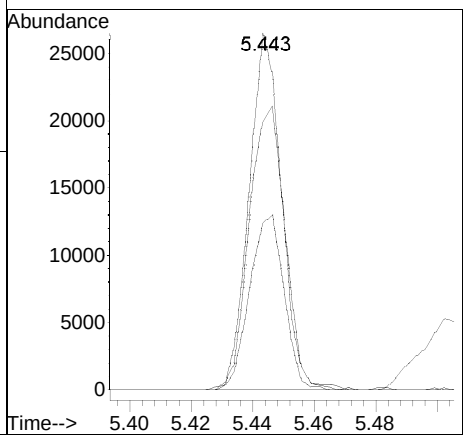


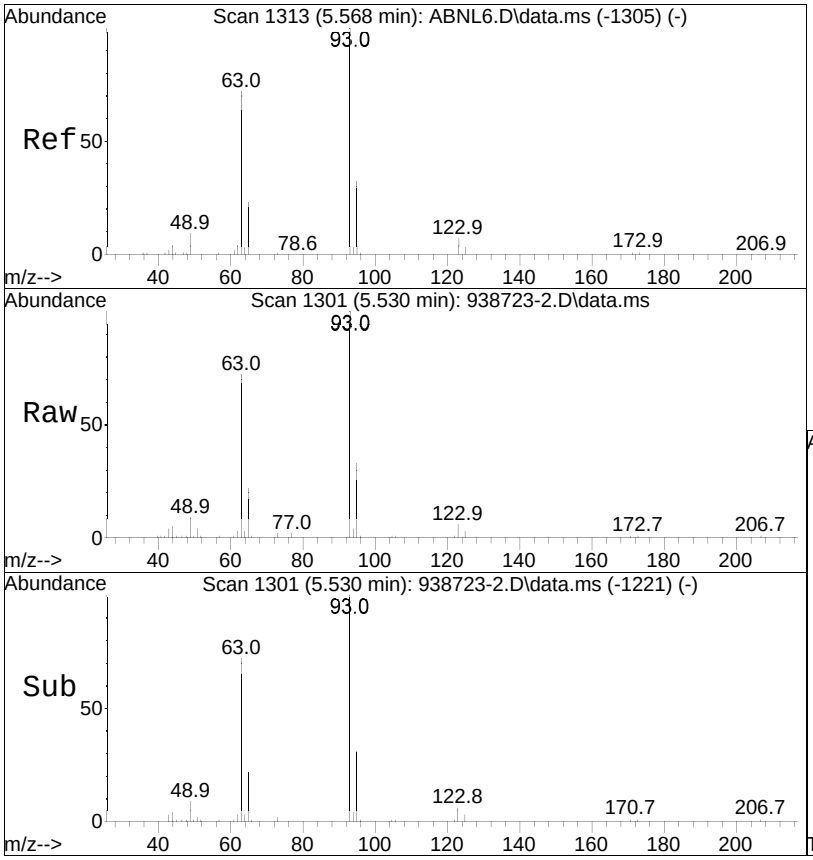


#23
2,4-Dimethylphenol
Concen: 2.37 ug/ml
RT: 5.443 min Scan# 1273
Delta R.T. -0.003 min
Lab File: 938723-2.D
Acq: 25 Jun 2024 10:40 am

Tgt Ion:107 Resp: 19568

Ion	Ratio	Lower	Upper
107	100		
121	51.5	40.0	60.0
122	85.5	70.2	105.4

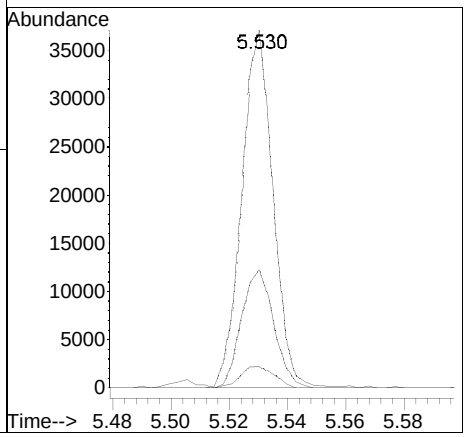


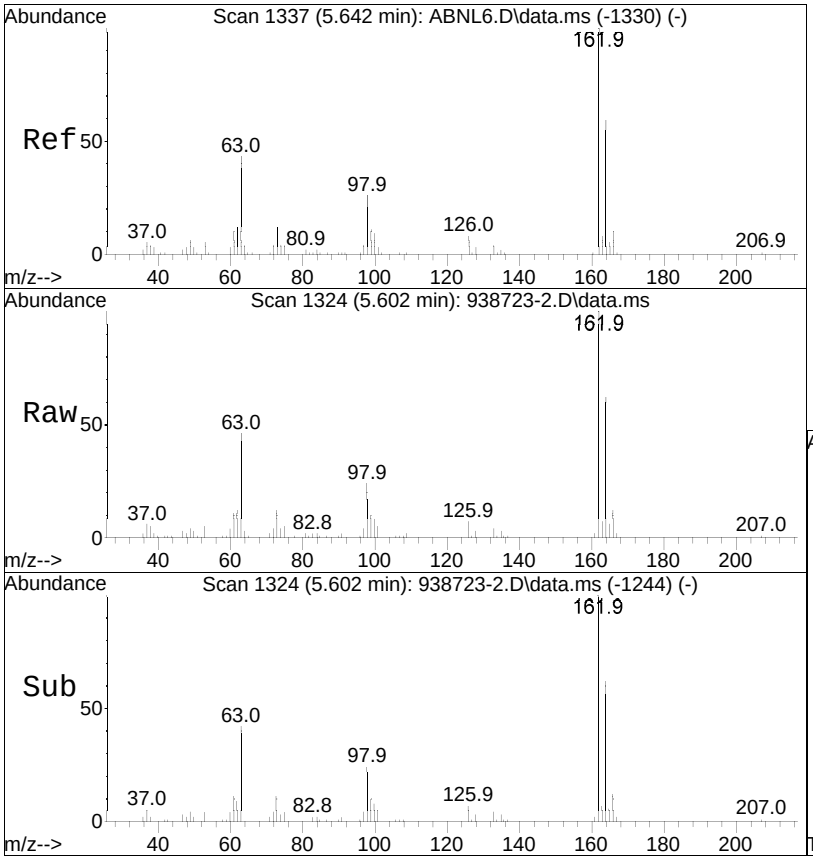


#24
Bis(2-chloroethoxy)methane
Concen: 2.60 ug/ml
RT: 5.530 min Scan# 1301
Delta R.T. -0.000 min
Lab File: 938723-2.D
Acq: 25 Jun 2024 10:40 am

Tgt Ion: 93 Resp: 27340

Ion	Ratio	Lower	Upper
93	100		
95	34.1	25.8	38.8
123	6.6	10.1	15.1#

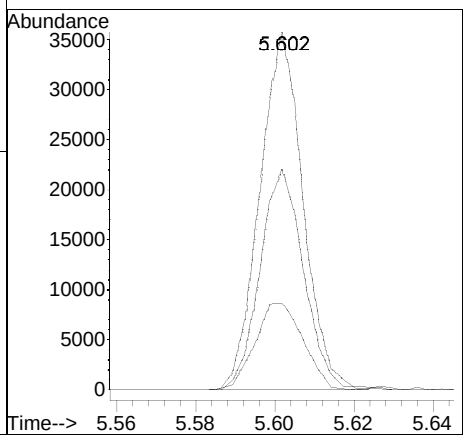


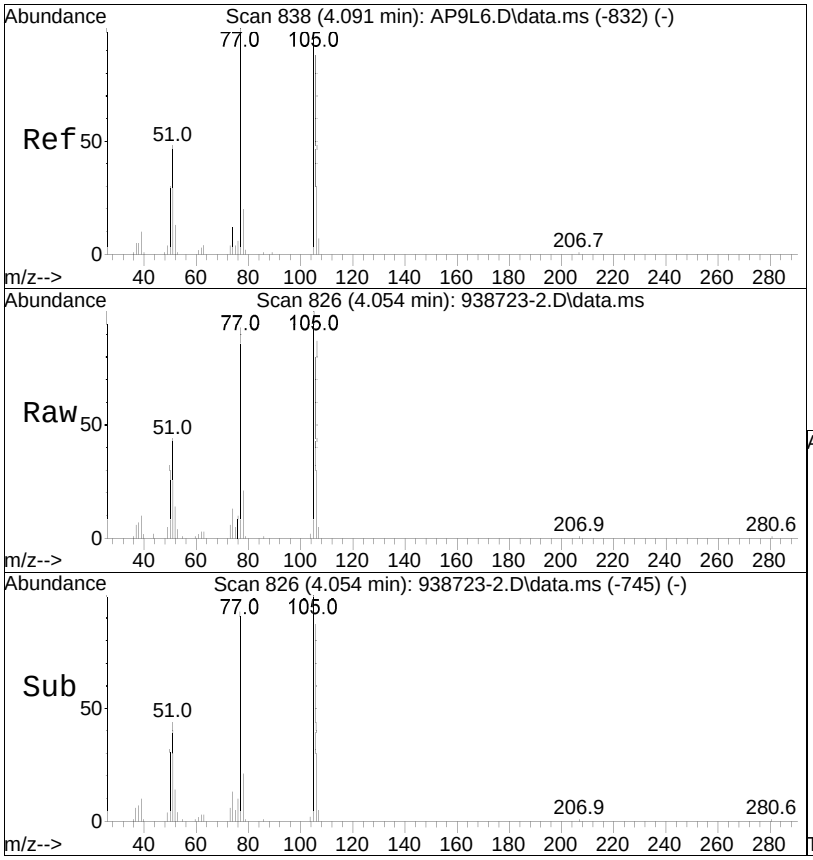


#25
2,4-Dichlorophenol
Concen: 2.89 ug/ml
RT: 5.602 min Scan# 1324
Delta R.T. -0.000 min
Lab File: 938723-2.D
Acq: 25 Jun 2024 10:40 am

Tgt Ion:162 Resp: 26910

Ion	Ratio	Lower	Upper
162	100		
164	62.5	51.0	76.4
98	27.2	32.2	48.2#

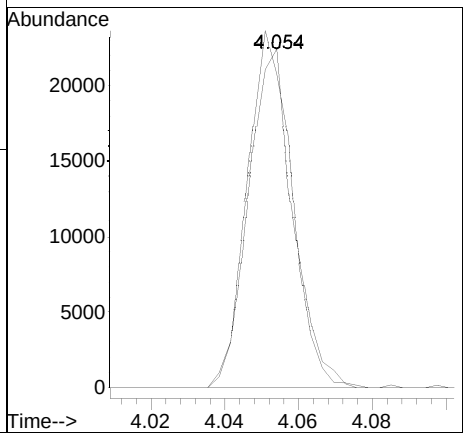


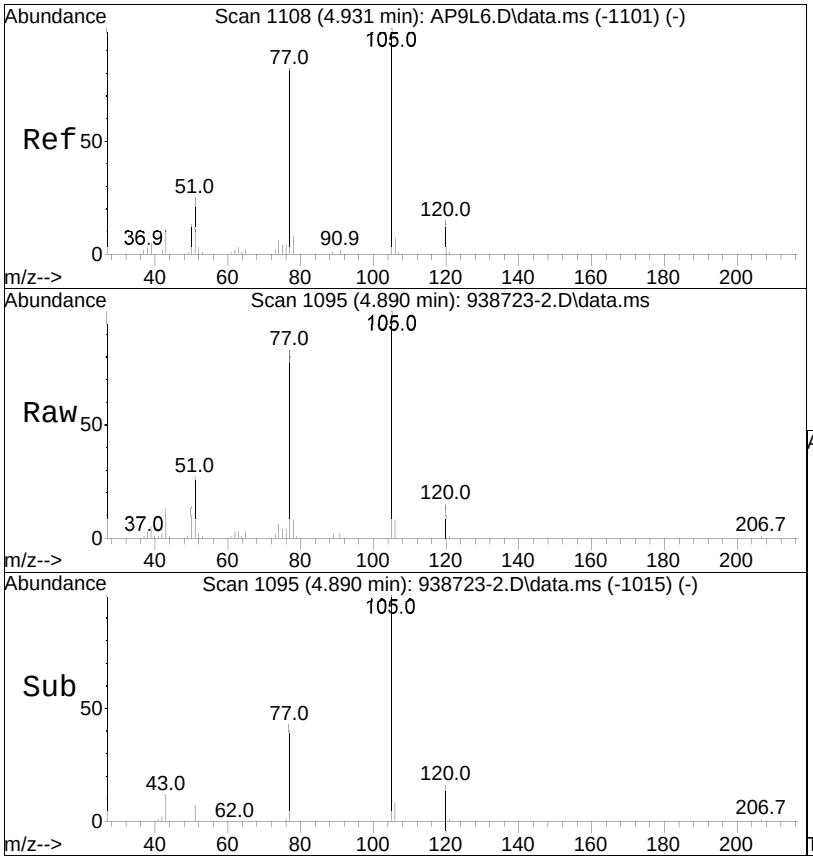


#28
Benzaldehyde
Concen: 2.42 ug/ml
RT: 4.054 min Scan# 826
Delta R.T. 0.003 min
Lab File: 938723-2.D
Acq: 25 Jun 2024 10:40 am

Tgt Ion:105 Resp: 18904

Ion	Ratio	Lower	Upper
105	100		
77	104.4	82.2	123.4

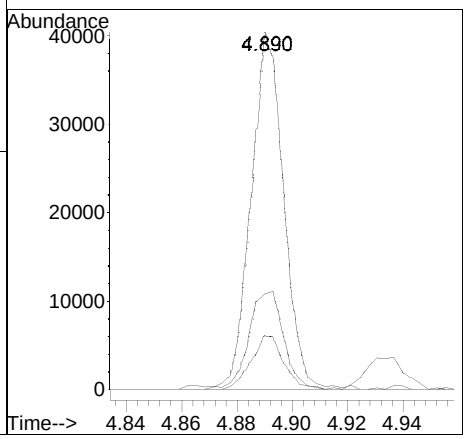


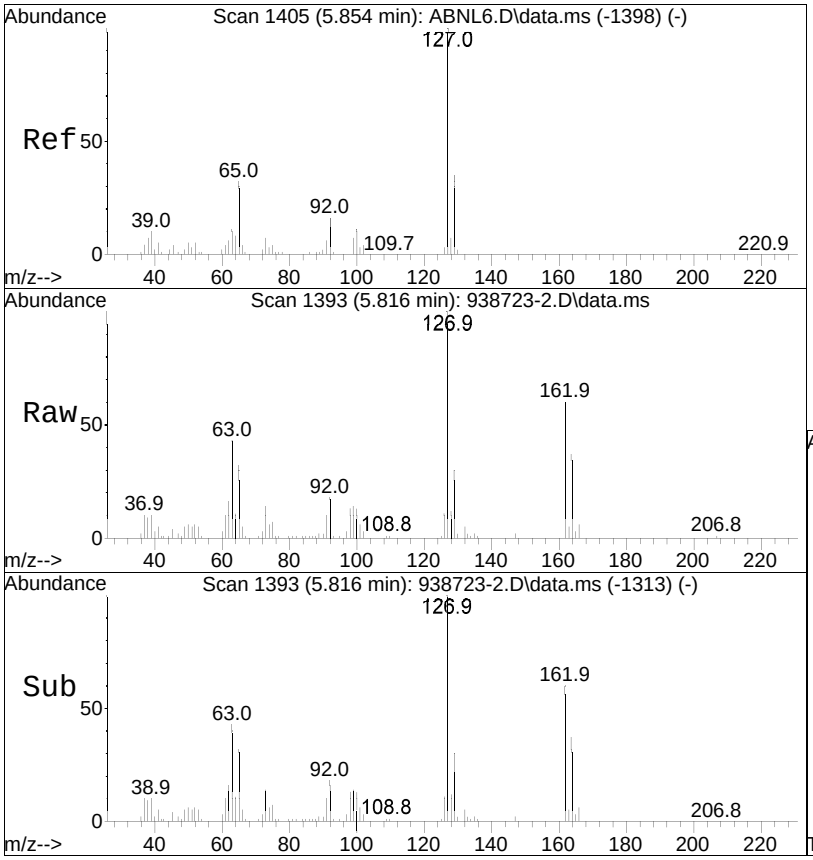


#29
Acetophenone
Concen: 2.45 ug/ml
RT: 4.890 min Scan# 1095
Delta R.T. -0.000 min
Lab File: 938723-2.D
Acq: 25 Jun 2024 10:40 am

Tgt Ion:105 Resp: 32675

Ion	Ratio	Lower	Upper
105	100		
120	15.2	20.5	30.7#
51	29.4	34.9	52.3#

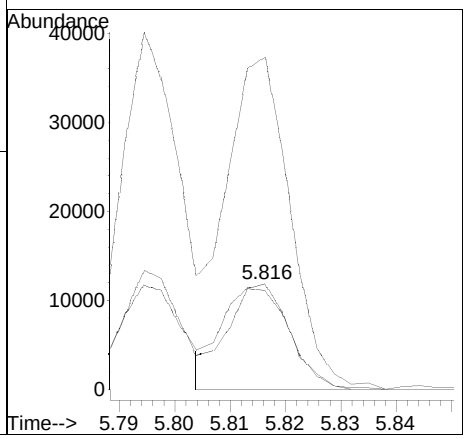


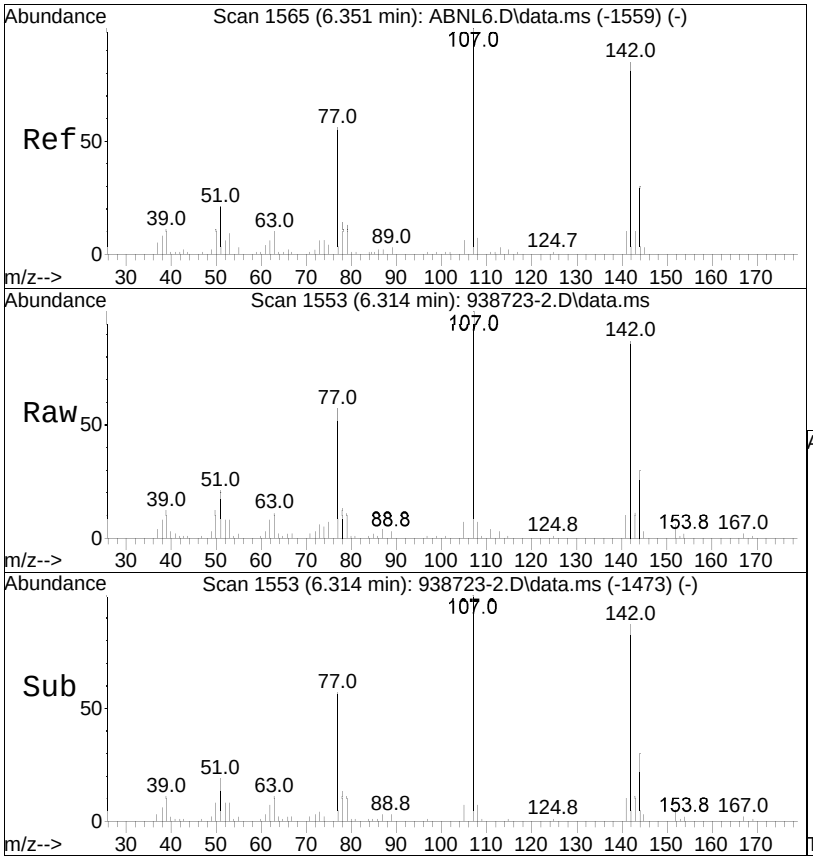


#38
4-Chloroaniline
Concen: 2.97 ug/ml
RT: 5.816 min Scan# 1393
Delta R.T. -0.000 min
Lab File: 938723-2.D
Acq: 25 Jun 2024 10:40 am

Tgt Ion: 65 Resp: 9849

Ion	Ratio	Lower	Upper
65	100		
127	306.5	237.6	356.4
129	92.0	76.3	114.5

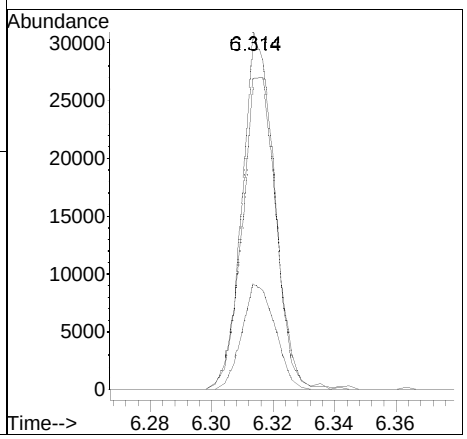


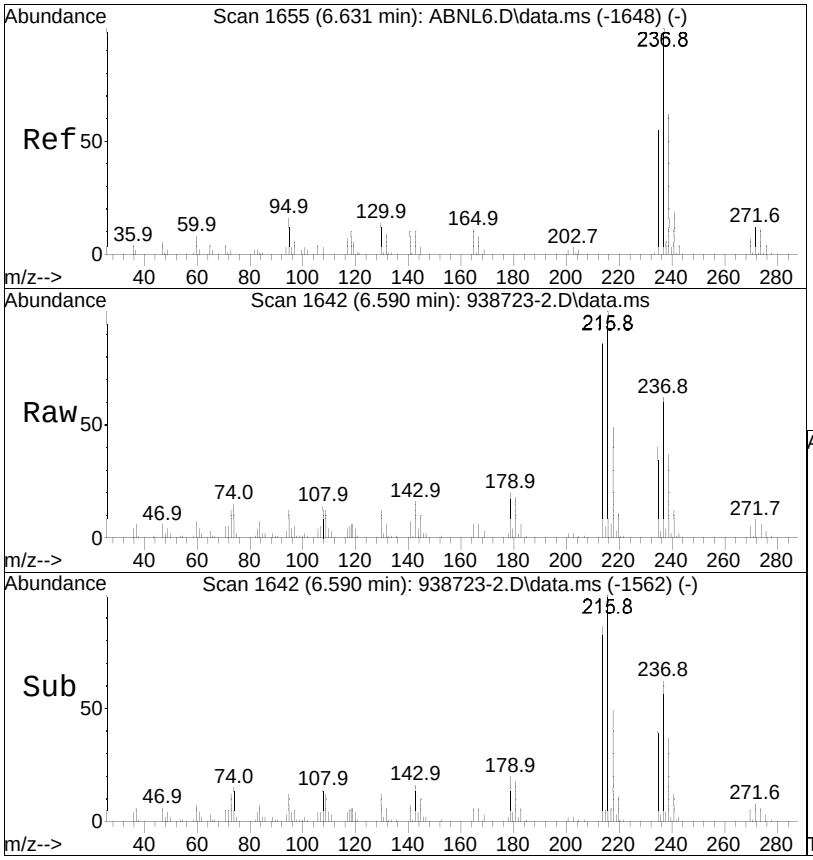


#40
p-Chloro-m-cresol
Concen: 2.92 ug/ml
RT: 6.314 min Scan# 1553
Delta R.T. -0.000 min
Lab File: 938723-2.D
Acq: 25 Jun 2024 10:40 am

Tgt Ion:107 Resp: 22188

Ion	Ratio	Lower	Upper
107	100		
144	30.7	20.9	31.3
142	92.9	66.1	99.1

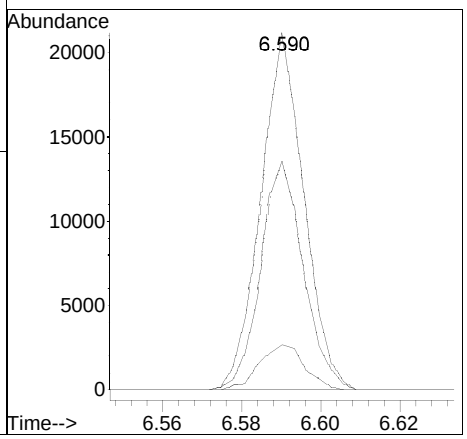


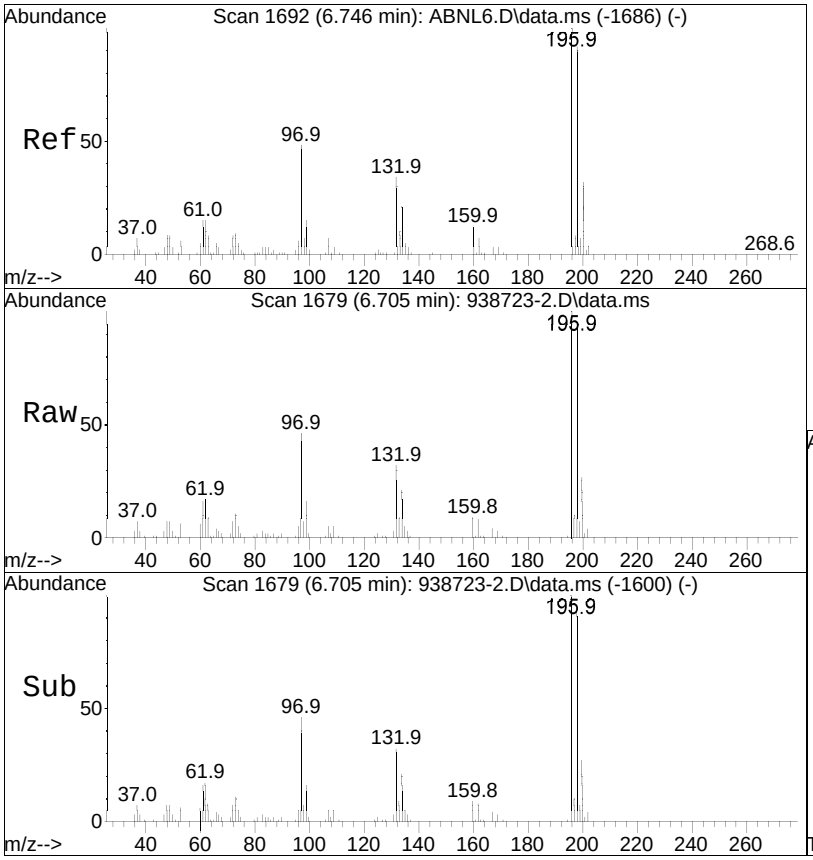


#43
Hexachlorocyclopentadiene
Concen: 2.10 ug/ml
RT: 6.590 min Scan# 1642
Delta R.T. -0.000 min
Lab File: 938723-2.D
Acq: 25 Jun 2024 10:40 am

Tgt Ion:237 Resp: 15949

Ion	Ratio	Lower	Upper
237	100		
235	63.6	49.7	74.5
272	13.4	9.8	14.6

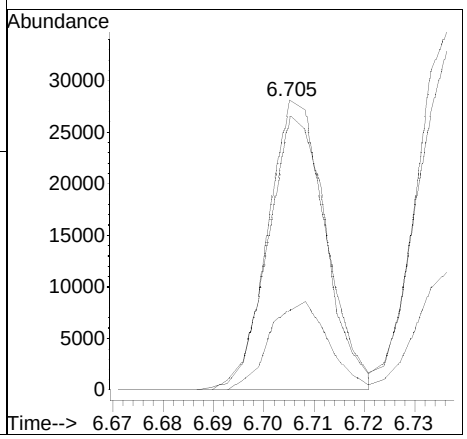


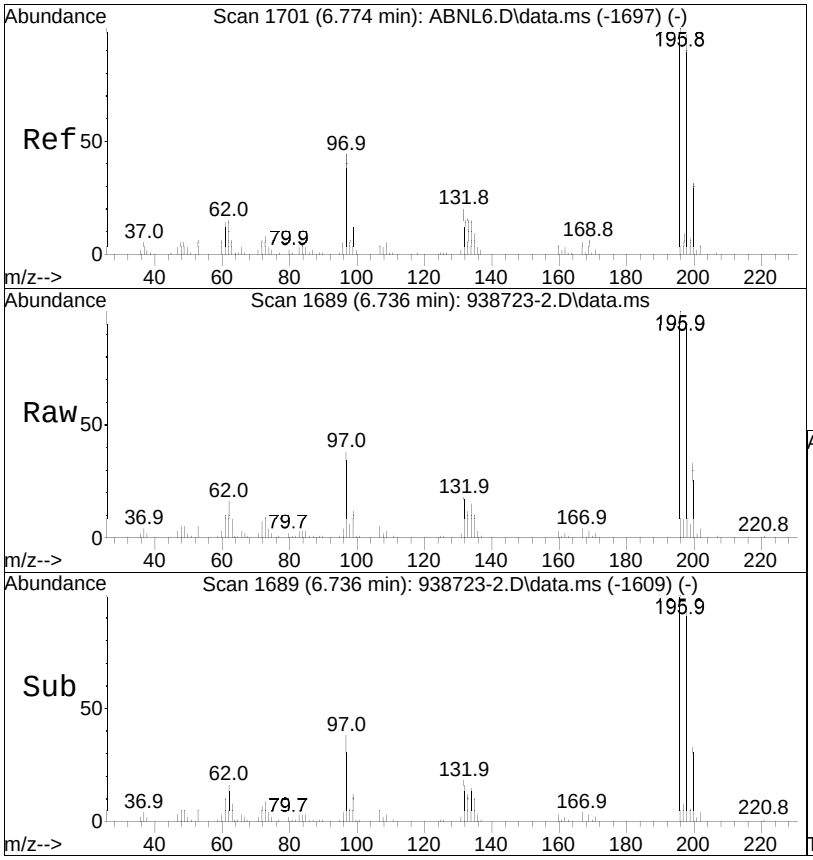


#44
2,4,6-Trichlorophenol
Concen: 2.90 ug/ml
RT: 6.705 min Scan# 1679
Delta R.T. -0.003 min
Lab File: 938723-2.D
Acq: 25 Jun 2024 10:40 am

Tgt Ion:196 Resp: 22471

Ion	Ratio	Lower	Upper
196	100		
198	94.5	77.5	116.3
200	31.0	23.8	35.6

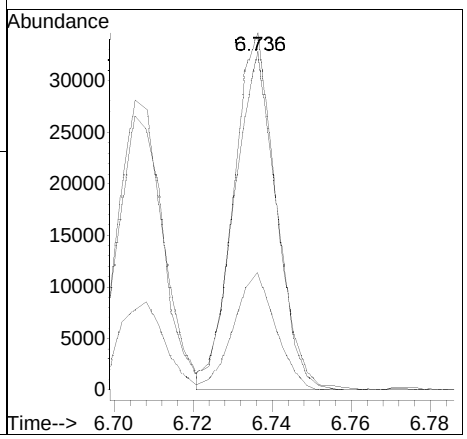


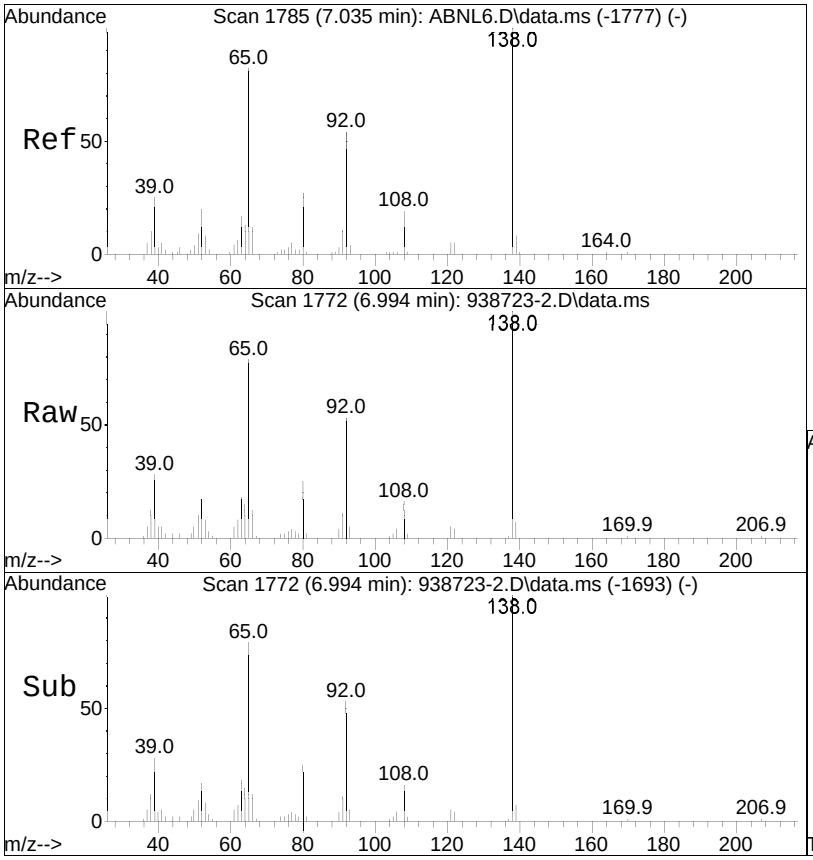


#45
2,4,5-Trichlorophenol
Concen: 3.14 ug/ml
RT: 6.736 min Scan# 1689
Delta R.T. -0.000 min
Lab File: 938723-2.D
Acq: 25 Jun 2024 10:40 am

Tgt Ion:196 Resp: 25964

Ion	Ratio	Lower	Upper
196	100		
200	32.6	25.4	38.0
198	93.7	78.0	117.0

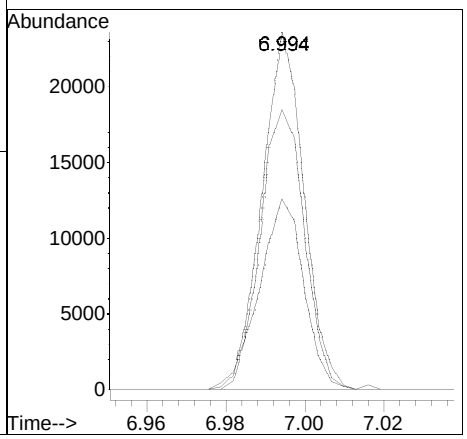


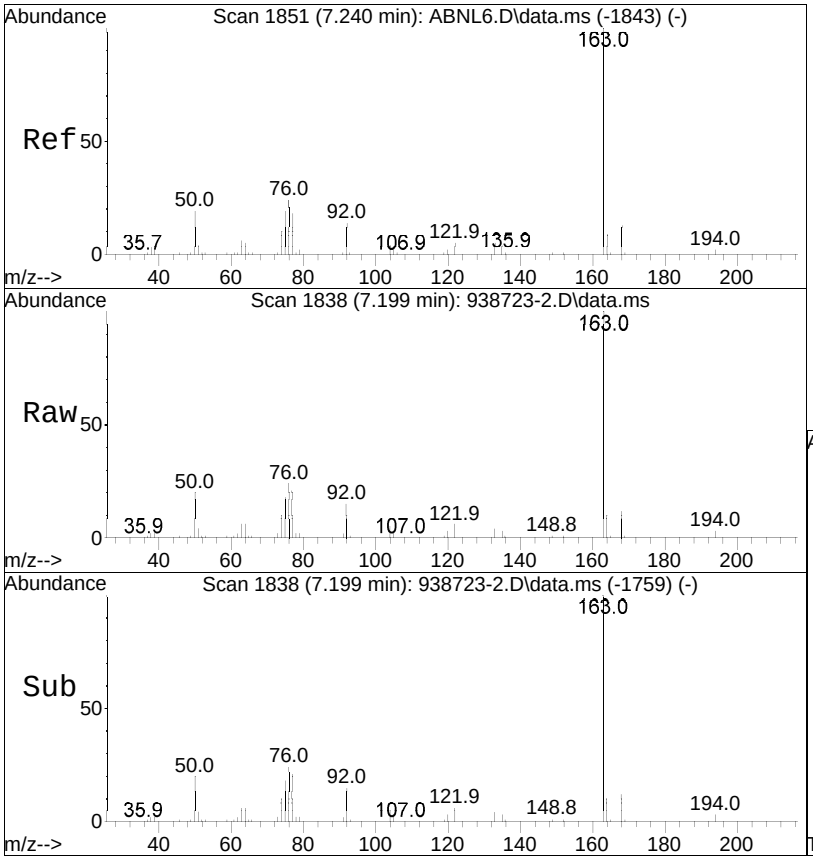


#48
2-Nitroaniline
Concen: 2.99 ug/ml
RT: 6.994 min Scan# 1772
Delta R.T. -0.003 min
Lab File: 938723-2.D
Acq: 25 Jun 2024 10:40 am

Tgt Ion:138 Resp: 17314

Ion	Ratio	Lower	Upper
138	100		
92	55.8	53.5	80.3
65	83.5	86.3	129.5#

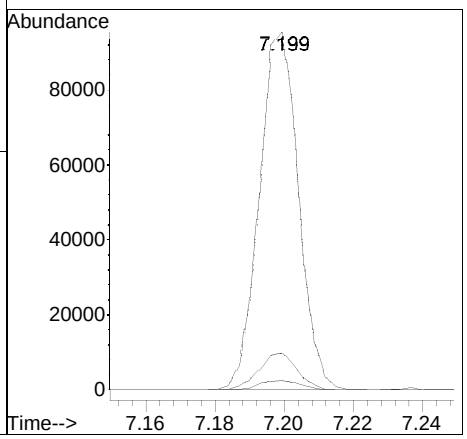


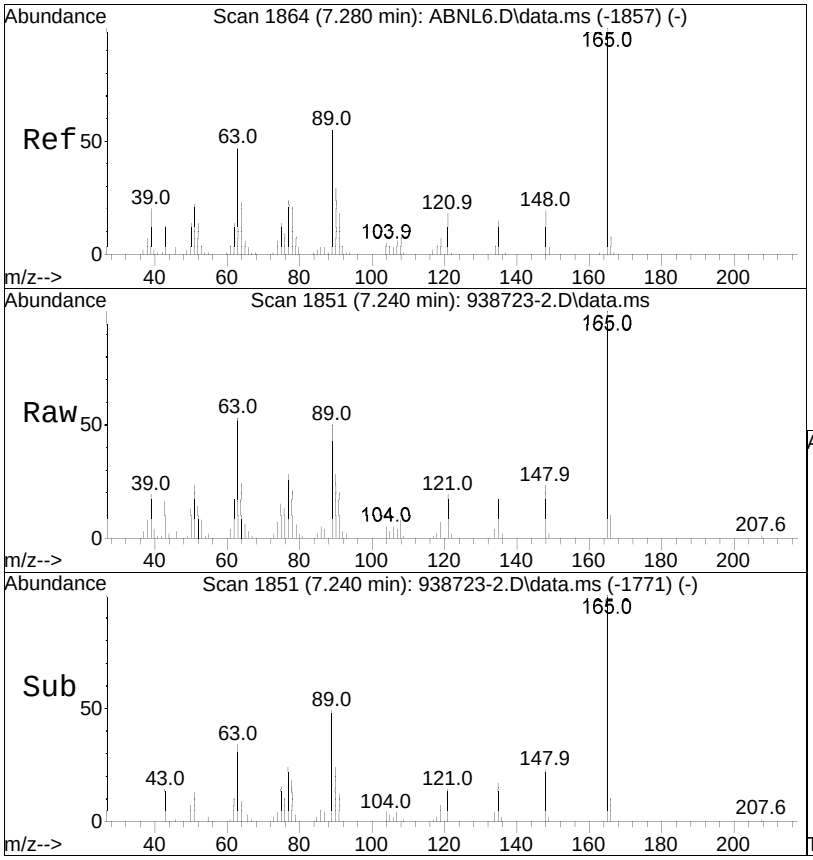


#51
Dimethyl phthalate
Concen: 2.75 ug/ml
RT: 7.199 min Scan# 1838
Delta R.T. -0.003 min
Lab File: 938723-2.D
Acq: 25 Jun 2024 10:40 am

Tgt Ion:163 Resp: 74334

Ion	Ratio	Lower	Upper
163	100		
194	2.8	3.5	5.3#
164	10.2	7.9	11.9

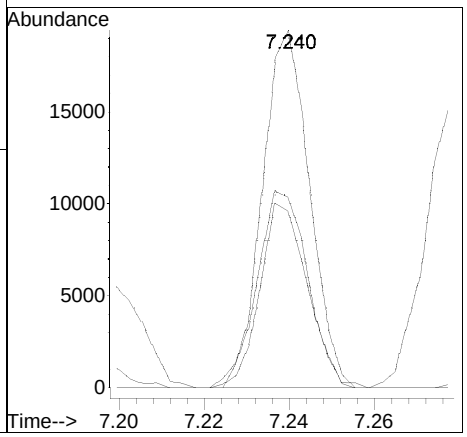


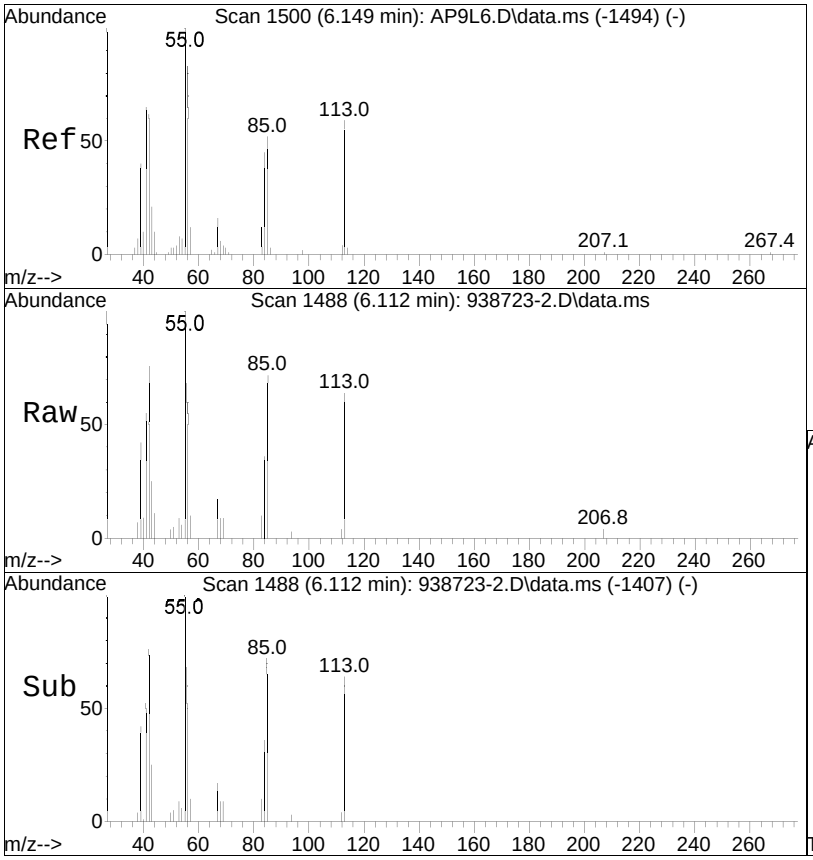


#53
2,6-Dinitrotoluene
Concen: 2.82 ug/ml
RT: 7.240 min Scan# 1851
Delta R.T. -0.000 min
Lab File: 938723-2.D
Acq: 25 Jun 2024 10:40 am

Tgt Ion:165 Resp: 15048

Ion	Ratio	Lower	Upper
165	100		
89	51.4	54.2	81.2#
63	58.4	64.2	96.2#

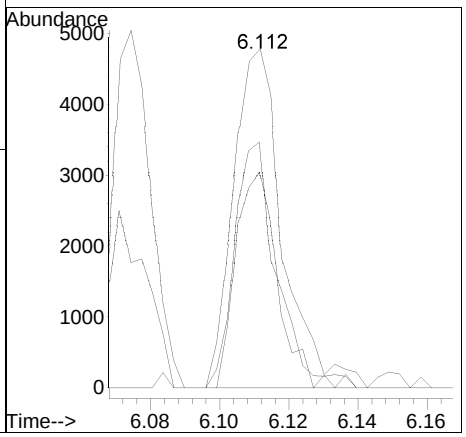


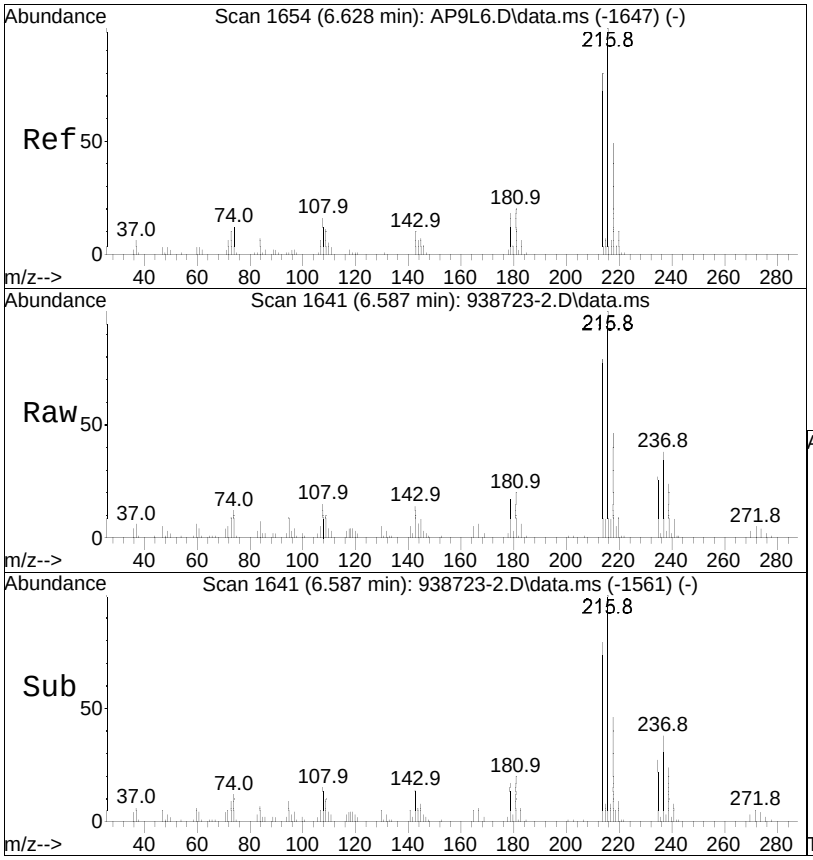


#60
Caprolactam
Concen: 1.36 ug/ml
RT: 6.112 min Scan# 1488
Delta R.T. 0.003 min
Lab File: 938723-2.D
Acq: 25 Jun 2024 10:40 am

Tgt Ion: 55 Resp: 4753

Ion	Ratio	Lower	Upper
55	100		
85	61.8	19.8	29.6#
113	54.3	29.6	44.4#

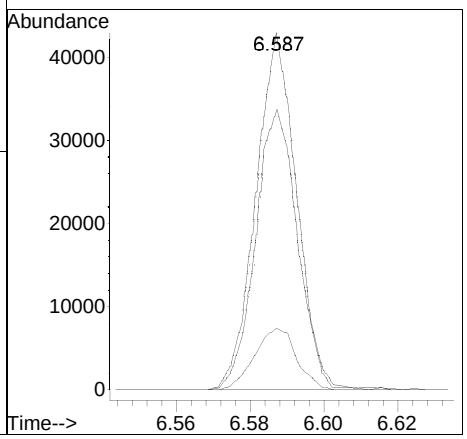


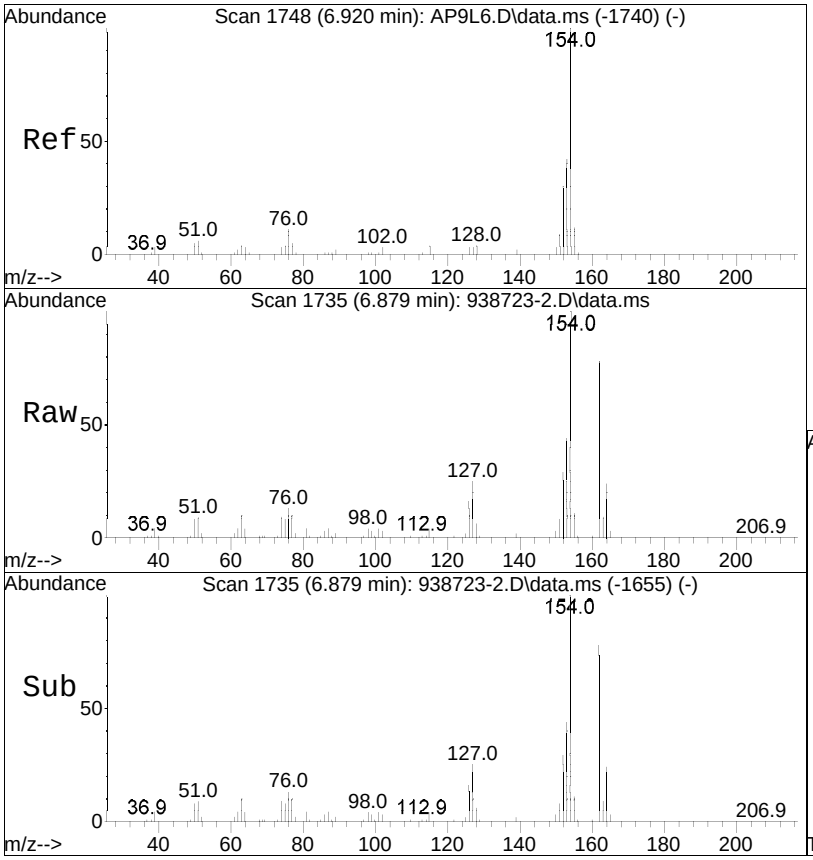


#61
1,2,4,5-Tetrachlorobenzene
Concen: 2.50 ug/ml
RT: 6.587 min Scan# 1641
Delta R.T. -0.000 min
Lab File: 938723-2.D
Acq: 25 Jun 2024 10:40 am

Tgt Ion:216 Resp: 32689

Ion	Ratio	Lower	Upper
216	100		
214	80.8	63.7	95.5
179	17.9	19.0	28.6#

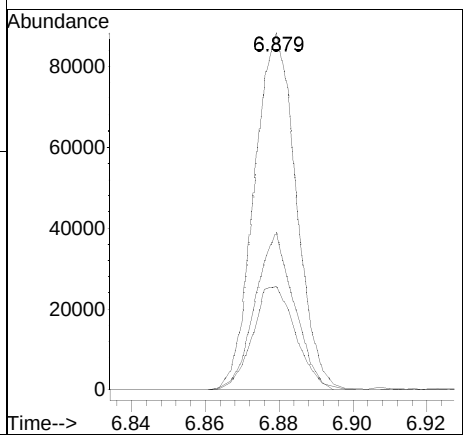


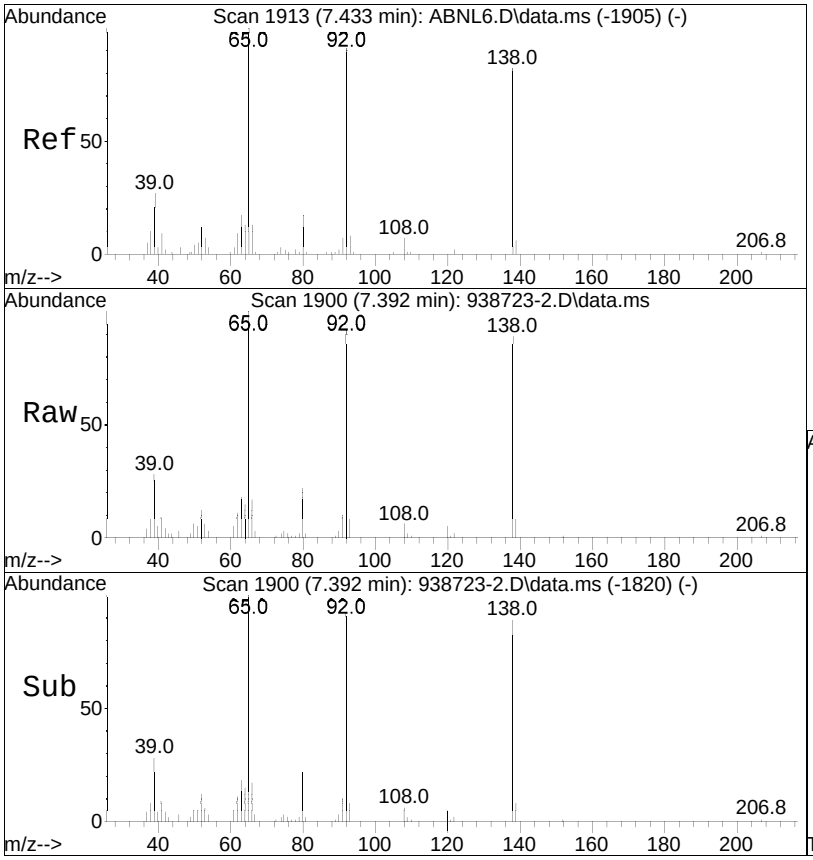


#62
Biphenyl
Concen: 2.47 ug/ml
RT: 6.879 min Scan# 1735
Delta R.T. -0.000 min
Lab File: 938723-2.D
Acq: 25 Jun 2024 10:40 am

Tgt Ion:154 Resp: 69152

Ion	Ratio	Lower	Upper
154	100		
153	41.3	32.3	48.5
152	30.1	22.5	33.7

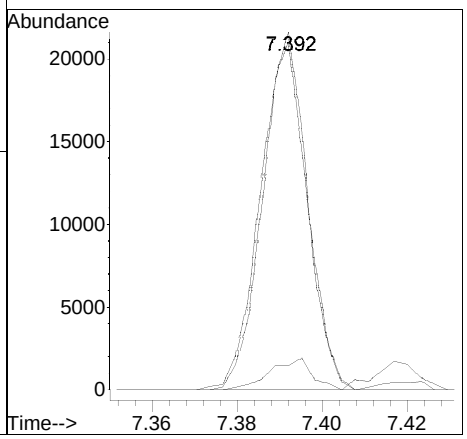


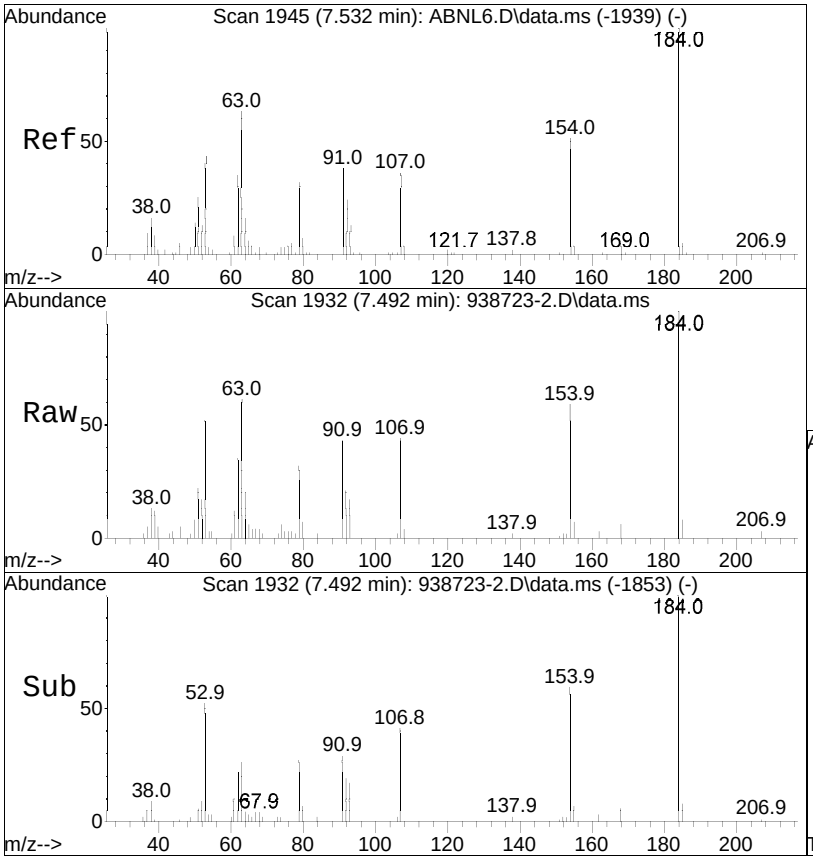


#64
3-Nitroaniline
Concen: 2.82 ug/ml
RT: 7.392 min Scan# 1900
Delta R.T. -0.000 min
Lab File: 938723-2.D
Acq: 25 Jun 2024 10:40 am

Tgt Ion:138 Resp: 15303

Ion	Ratio	Lower	Upper
138	100		
92	105.5	93.4	140.2
108	8.5	9.5	14.3#

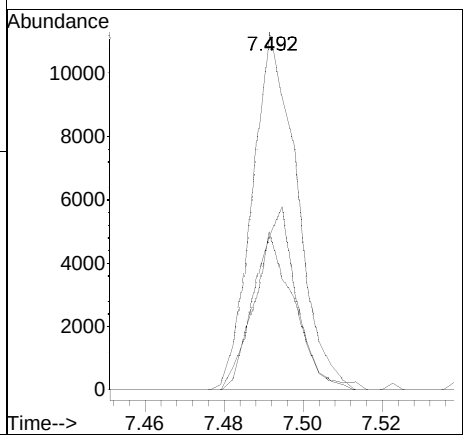


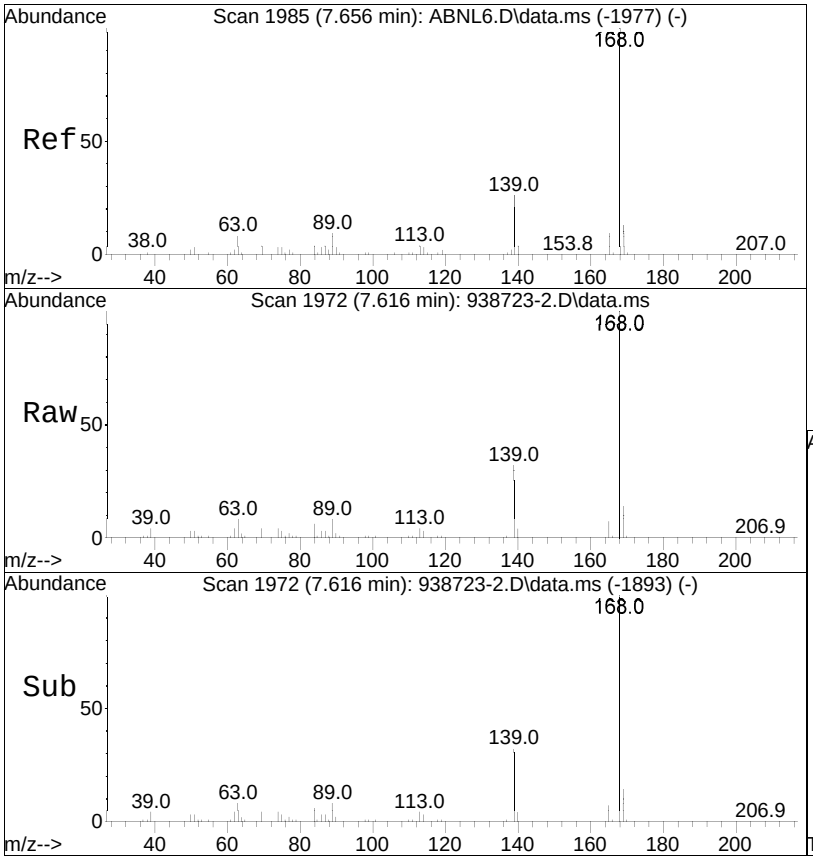


#66
2,4-Dinitrophenol
Concen: 2.42 ug/ml
RT: 7.492 min Scan# 1932
Delta R.T. -0.003 min
Lab File: 938723-2.D
Acq: 25 Jun 2024 10:40 am

Tgt Ion:184 Resp: 8815

Ion	Ratio	Lower	Upper
184	100		
107	40.1	37.7	56.5
91	47.8	46.3	69.5

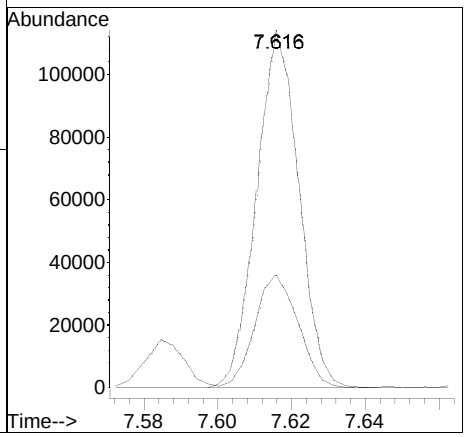


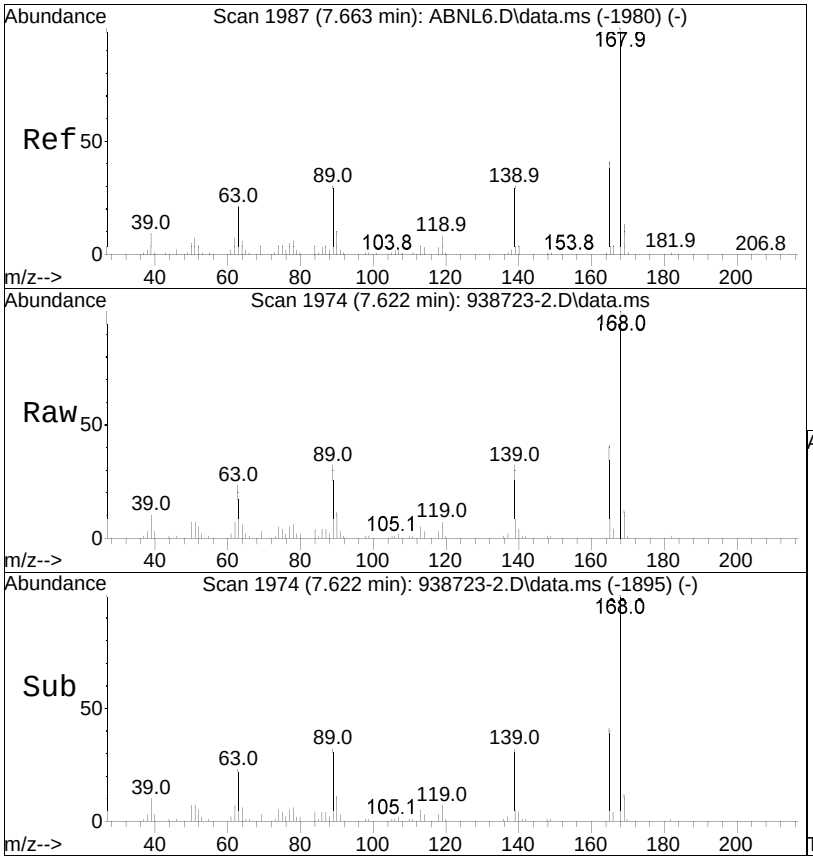


#67
Dibenzofuran
Concen: 2.58 ug/ml
RT: 7.616 min Scan# 1972
Delta R.T. -0.003 min
Lab File: 938723-2.D
Acq: 25 Jun 2024 10:40 am

Tgt Ion:168 Resp: 89614

Ion	Ratio	Lower	Upper
168	100		
139	32.5	31.4	47.2

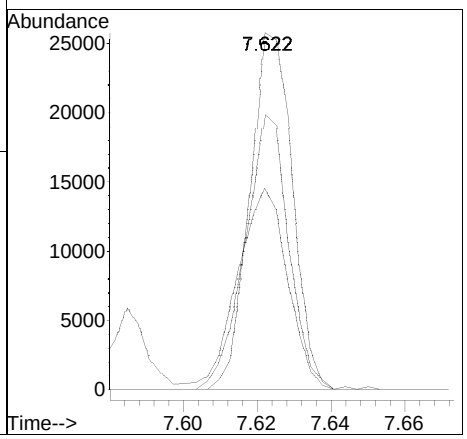


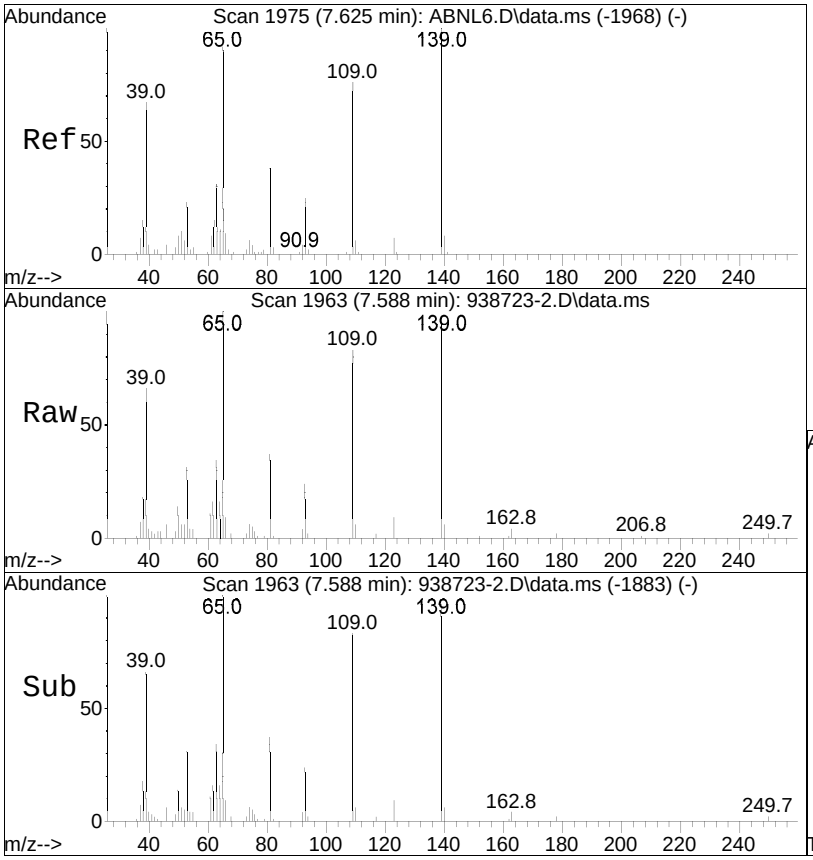


#68
2,4-Dinitrotoluene
Concen: 2.79 ug/ml
RT: 7.622 min Scan# 1974
Delta R.T. -0.003 min
Lab File: 938723-2.D
Acq: 25 Jun 2024 10:40 am

Tgt Ion:165 Resp: 20600

Ion	Ratio	Lower	Upper
165	100		
89	78.9	72.0	108.0
63	66.0	52.7	79.1

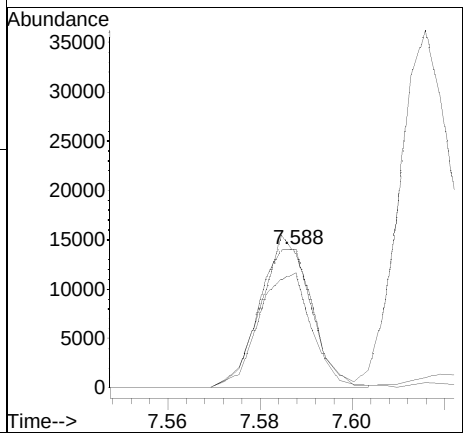


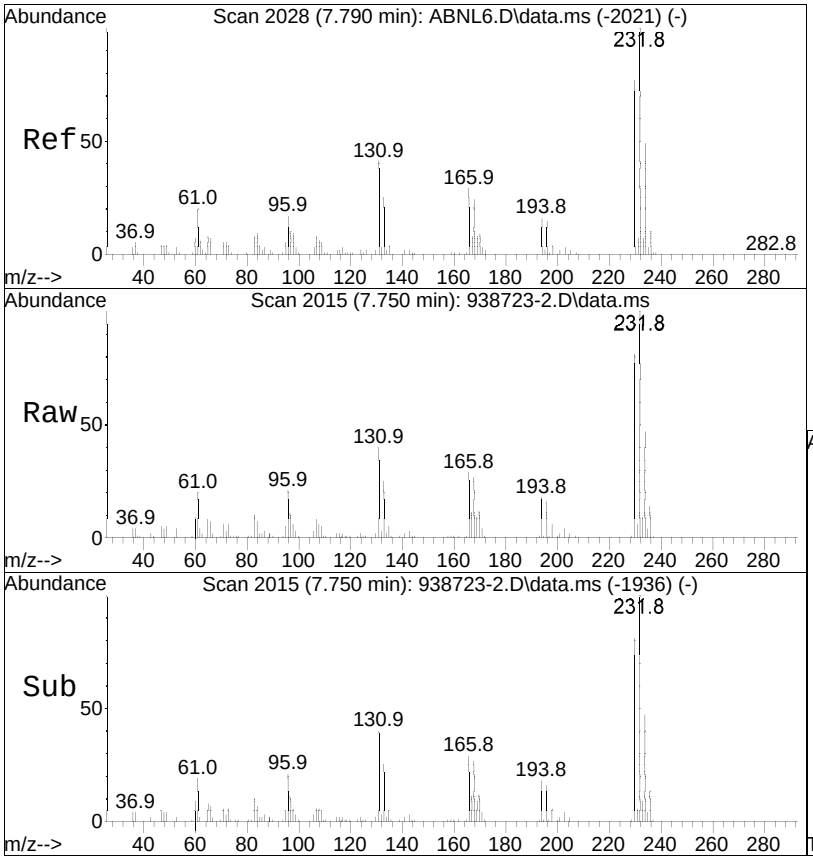


#69
4-Nitrophenol
Concen: 2.54 ug/ml
RT: 7.588 min Scan# 1963
Delta R.T. -0.000 min
Lab File: 938723-2.D
Acq: 25 Jun 2024 10:40 am

Tgt Ion: 65 Resp: 11525

Ion	Ratio	Lower	Upper
65	100		
109	80.9	47.4	71.2#
139	100.3	76.6	115.0

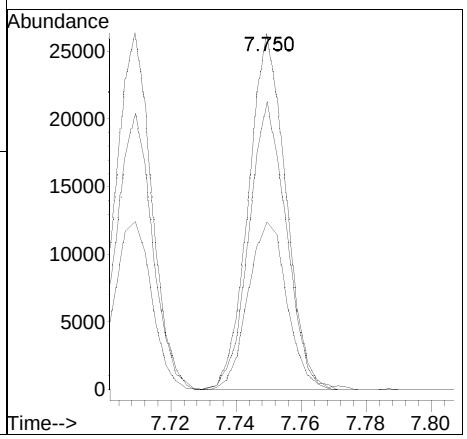


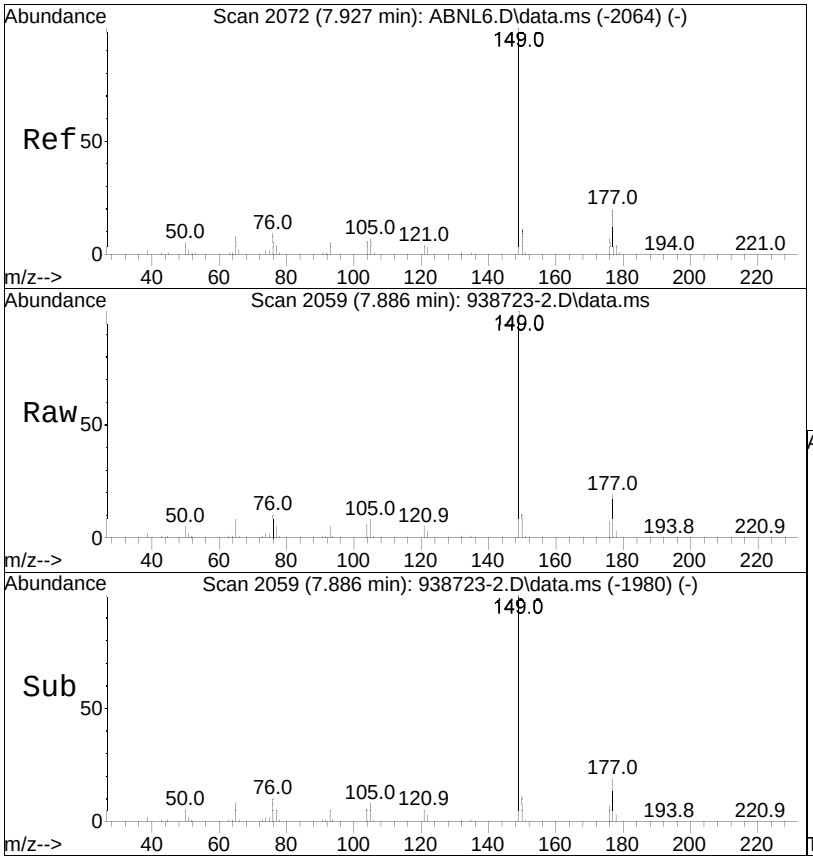


#71
2,3,4,6-Tetrachlorophenol
Concen: 2.89 ug/ml
RT: 7.750 min Scan# 2015
Delta R.T. -0.003 min
Lab File: 938723-2.D
Acq: 25 Jun 2024 10:40 am

Tgt Ion:232 Resp: 21117

Ion	Ratio	Lower	Upper
232	100		
230	80.7	61.8	92.8
234	49.0	36.2	54.2

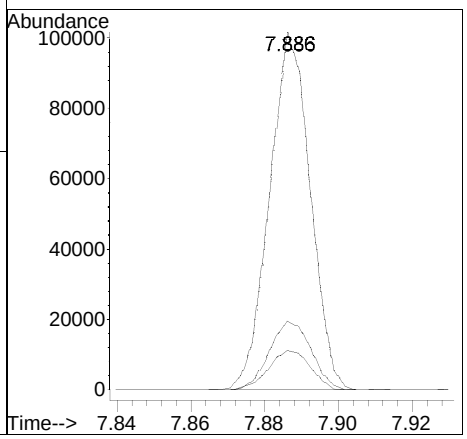


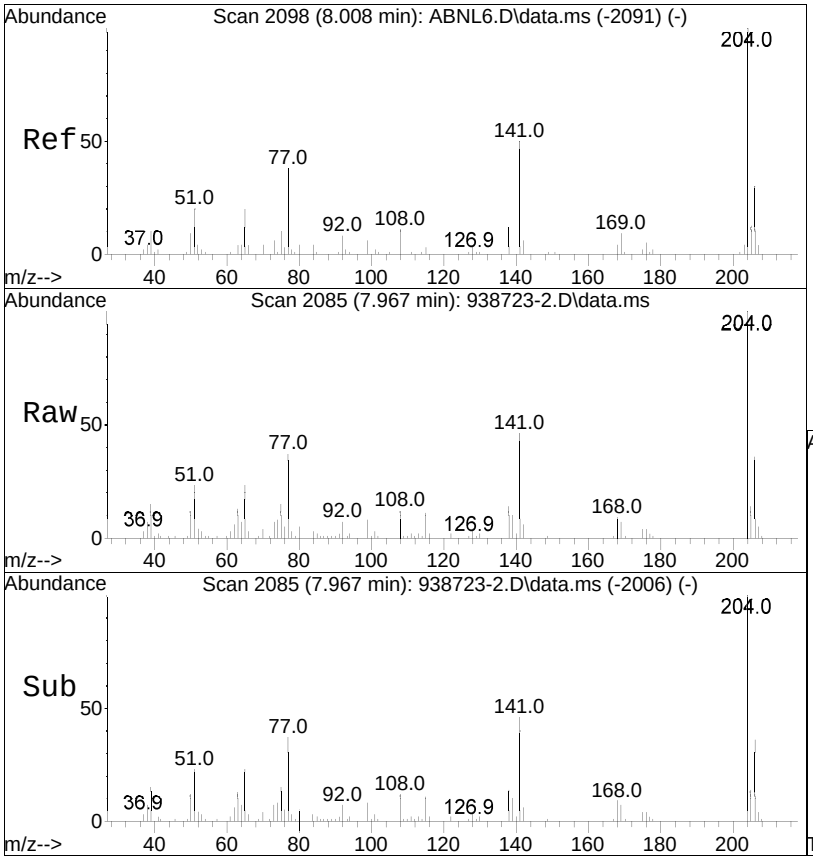


#72
Diethyl phthalate
Concen: 2.73 ug/ml
RT: 7.886 min Scan# 2059
Delta R.T. -0.003 min
Lab File: 938723-2.D
Acq: 25 Jun 2024 10:40 am

Tgt Ion:149 Resp: 76948

Ion	Ratio	Lower	Upper
149	100		
177	19.8	16.1	24.1
150	11.5	9.4	14.2

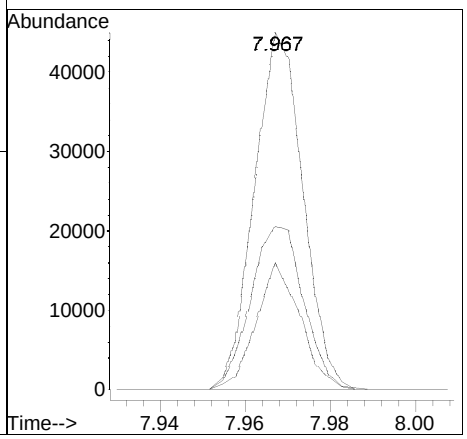


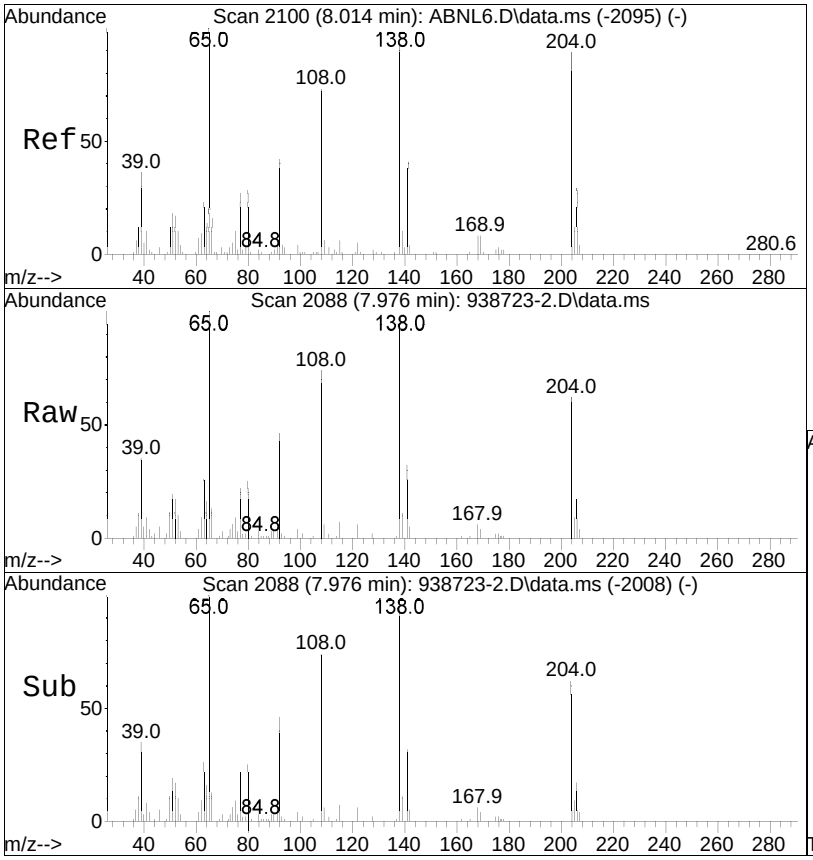


#74
4-Chlorophenyl phenyl ether
Concen: 2.62 ug/ml
RT: 7.967 min Scan# 2085
Delta R.T. -0.003 min
Lab File: 938723-2.D
Acq: 25 Jun 2024 10:40 am

Tgt Ion:204 Resp: 35358

Ion	Ratio	Lower	Upper
204	100		
206	32.4	25.8	38.6
141	50.0	53.6	80.4#

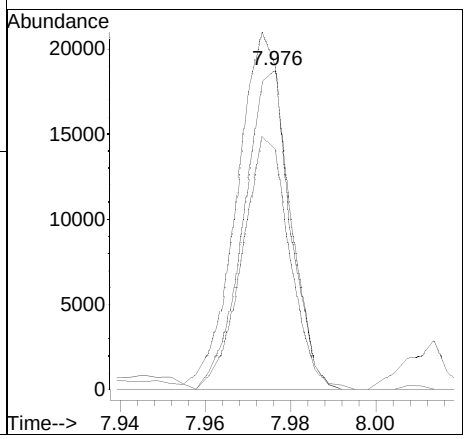


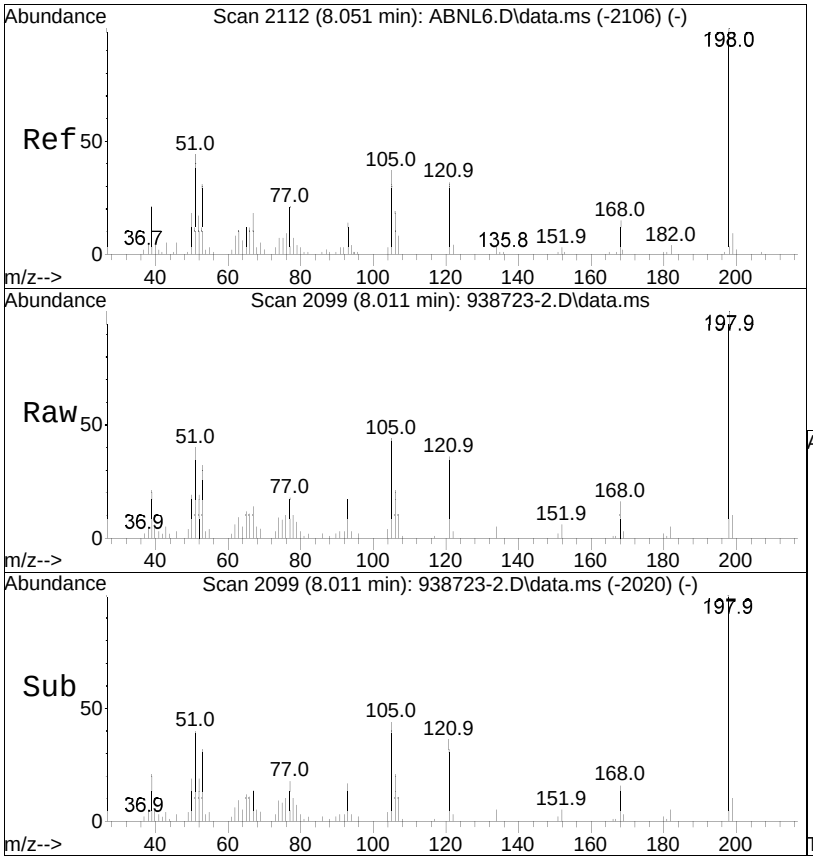


#75
4-Nitroaniline
Concen: 2.72 ug/ml
RT: 7.976 min Scan# 2088
Delta R.T. -0.000 min
Lab File: 938723-2.D
Acq: 25 Jun 2024 10:40 am

Tgt Ion:138 Resp: 14530

Ion	Ratio	Lower	Upper
138	100		
108	78.9	52.1	78.1#
65	119.7	115.0	172.6

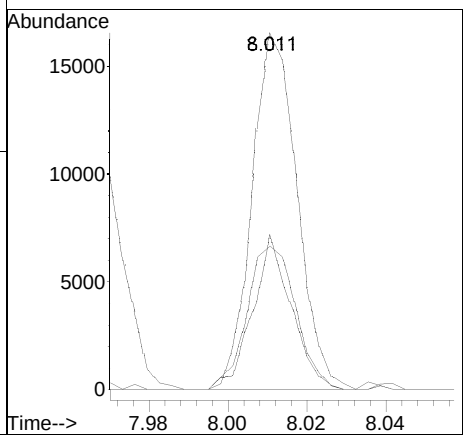


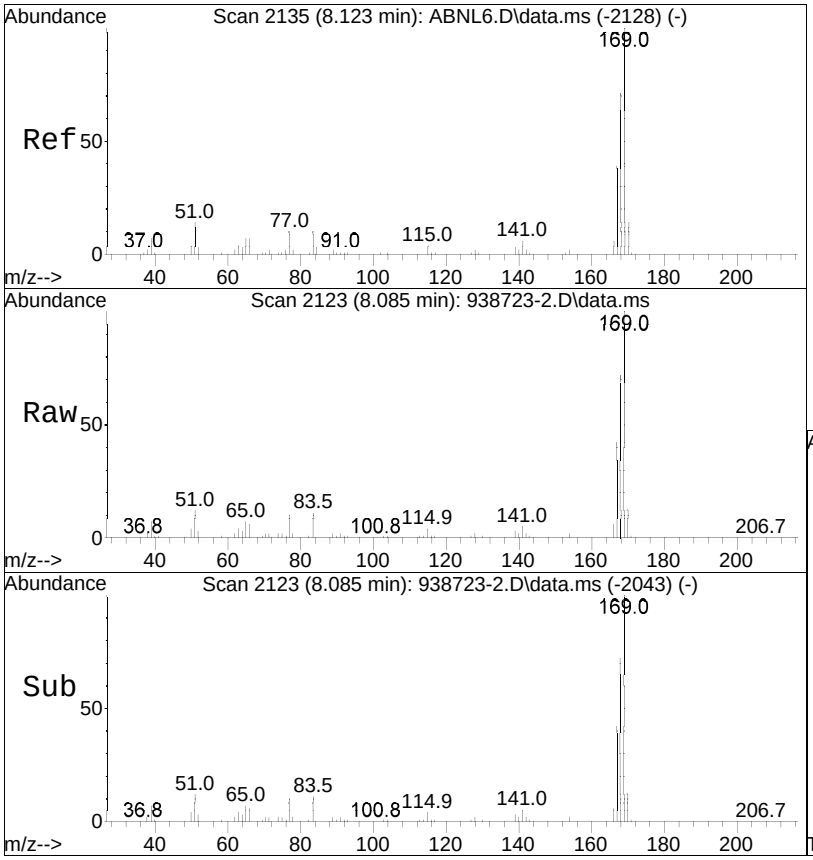


#76
4,6-Dinitro-o-cresol
Concen: 2.81 ug/ml
RT: 8.011 min Scan# 2099
Delta R.T. -0.003 min
Lab File: 938723-2.D
Acq: 25 Jun 2024 10:40 am

Tgt Ion:198 Resp: 13071

Ion	Ratio	Lower	Upper
198	100		
51	43.7	76.0	114.0#
105	37.4	45.6	68.4#

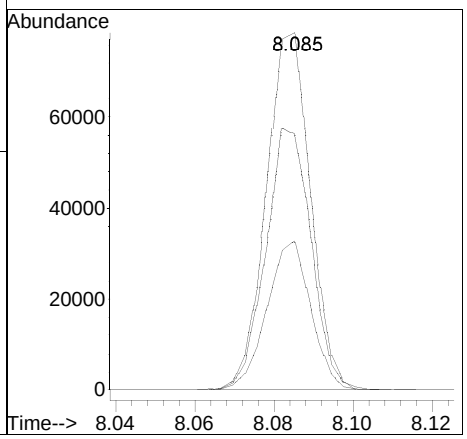


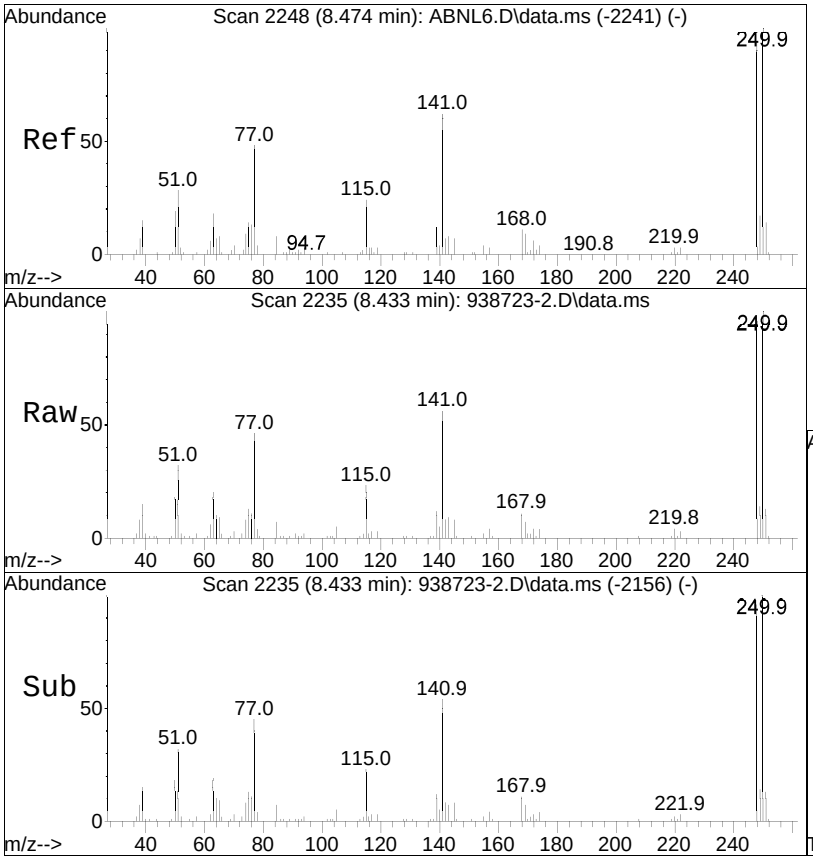


#77
NDPA/DPA
Concen: 2.69 ug/ml
RT: 8.085 min Scan# 2123
Delta R.T. -0.000 min
Lab File: 938723-2.D
Acq: 25 Jun 2024 10:40 am

Tgt Ion:169 Resp: 61008

Ion	Ratio	Lower	Upper
169	100		
168	75.1	54.0	81.0
167	41.5	28.6	42.8

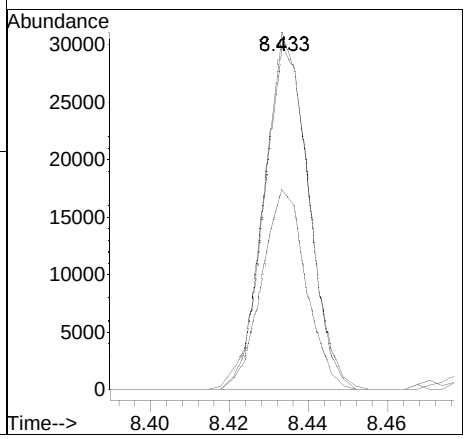


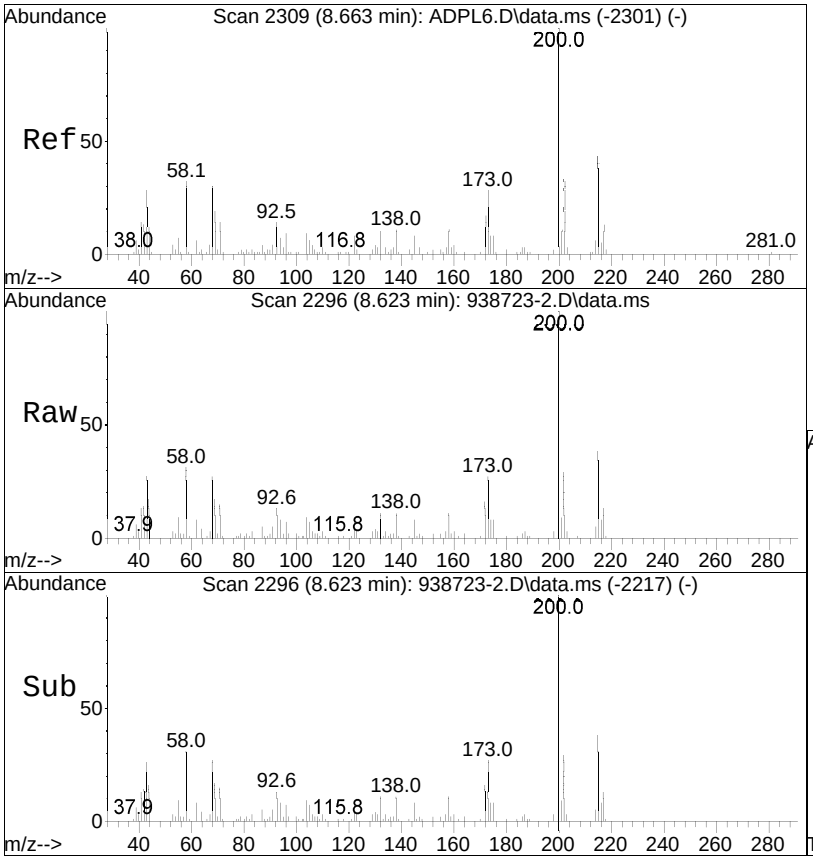


#80
4-Bromophenyl phenyl ether
Concen: 2.63 ug/ml
RT: 8.433 min Scan# 2235
Delta R.T. -0.003 min
Lab File: 938723-2.D
Acq: 25 Jun 2024 10:40 am

Tgt Ion:248 Resp: 23588

Ion	Ratio	Lower	Upper
248	100		
141	57.2	76.6	114.8#
250	101.6	77.3	115.9

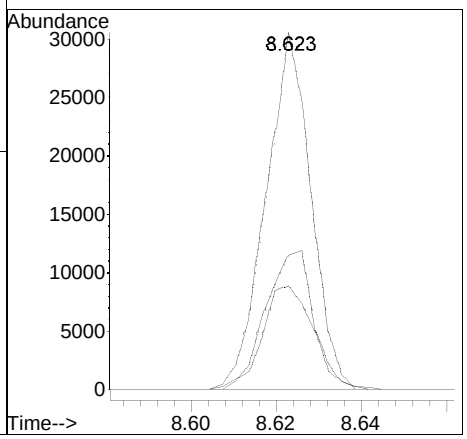


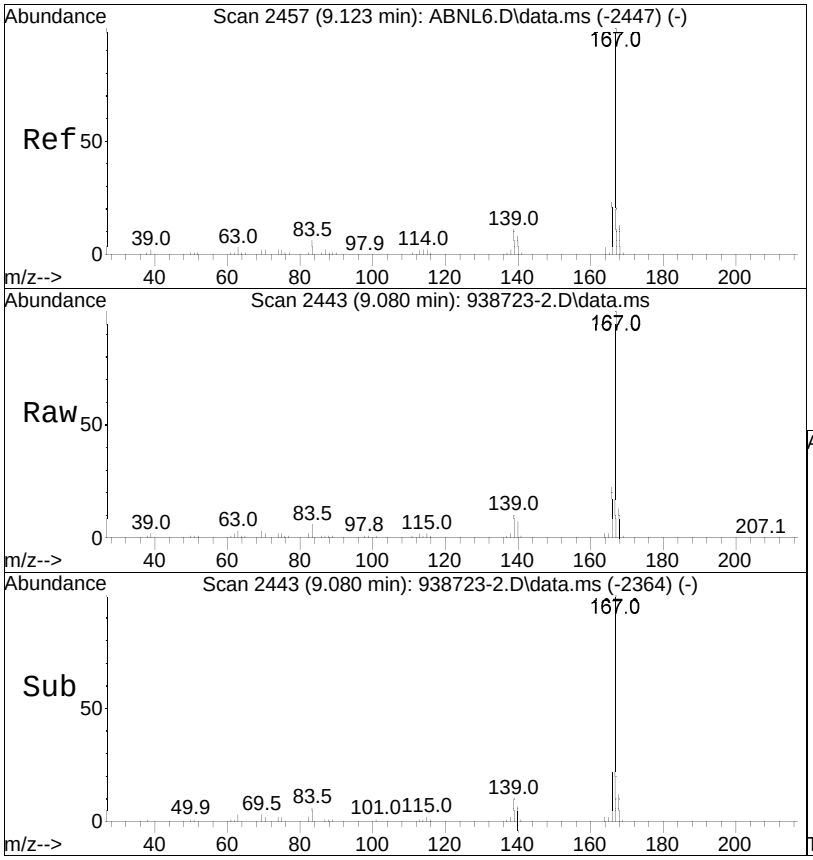


#87
Atrazine
Concen: 2.71 ug/ml
RT: 8.623 min Scan# 2296
Delta R.T. -0.003 min
Lab File: 938723-2.D
Acq: 25 Jun 2024 10:40 am

Tgt Ion:200 Resp: 22276

Ion	Ratio	Lower	Upper
200	100		
202	33.0	25.8	38.6
215	41.8	40.2	60.4

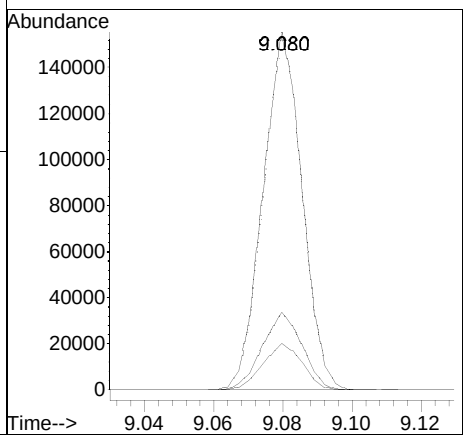


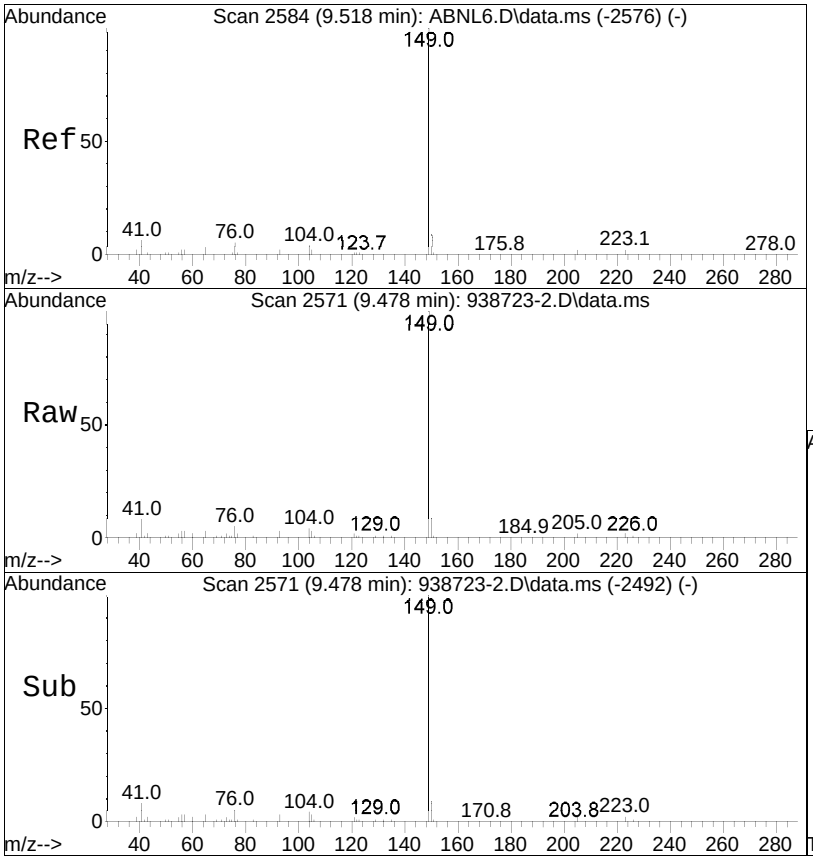


#91
Carbazole
Concen: 2.87 ug/ml
RT: 9.080 min Scan# 2443
Delta R.T. -0.003 min
Lab File: 938723-2.D
Acq: 25 Jun 2024 10:40 am

Tgt Ion:167 Resp: 120730

Ion	Ratio	Lower	Upper
167	100		
168	13.2	10.6	15.8
166	22.3	17.4	26.0

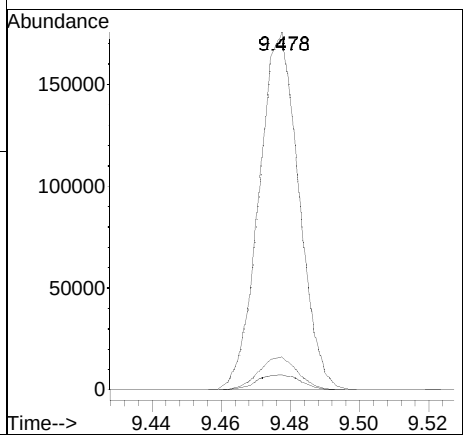


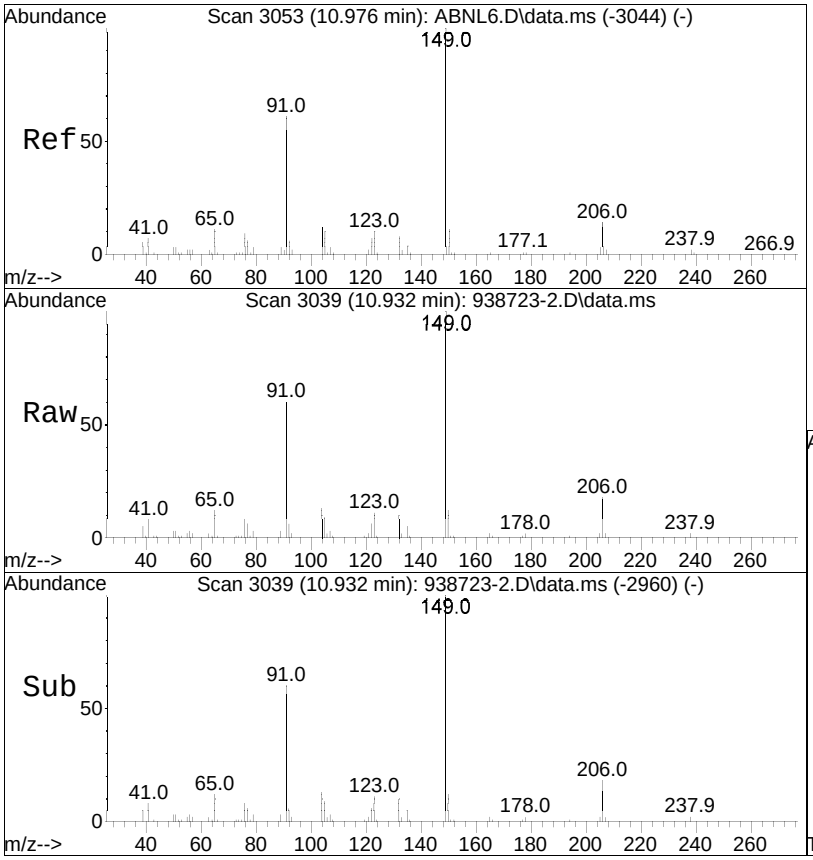


#92
Di-n-butylphthalate
Concen: 2.88 ug/ml
RT: 9.478 min Scan# 2571
Delta R.T. -0.003 min
Lab File: 938723-2.D
Acq: 25 Jun 2024 10:40 am

Tgt Ion:149 Resp: 138893

Ion	Ratio	Lower	Upper
149	100		
150	9.0	7.0	10.6
104	4.7	4.5	6.7

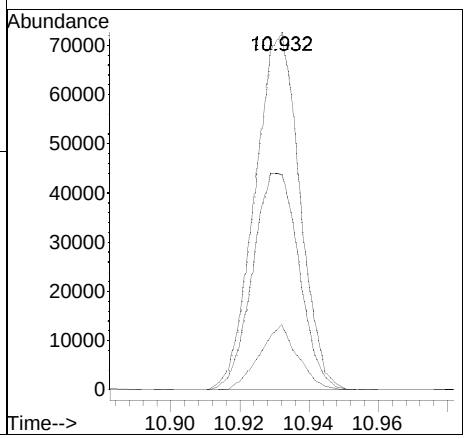


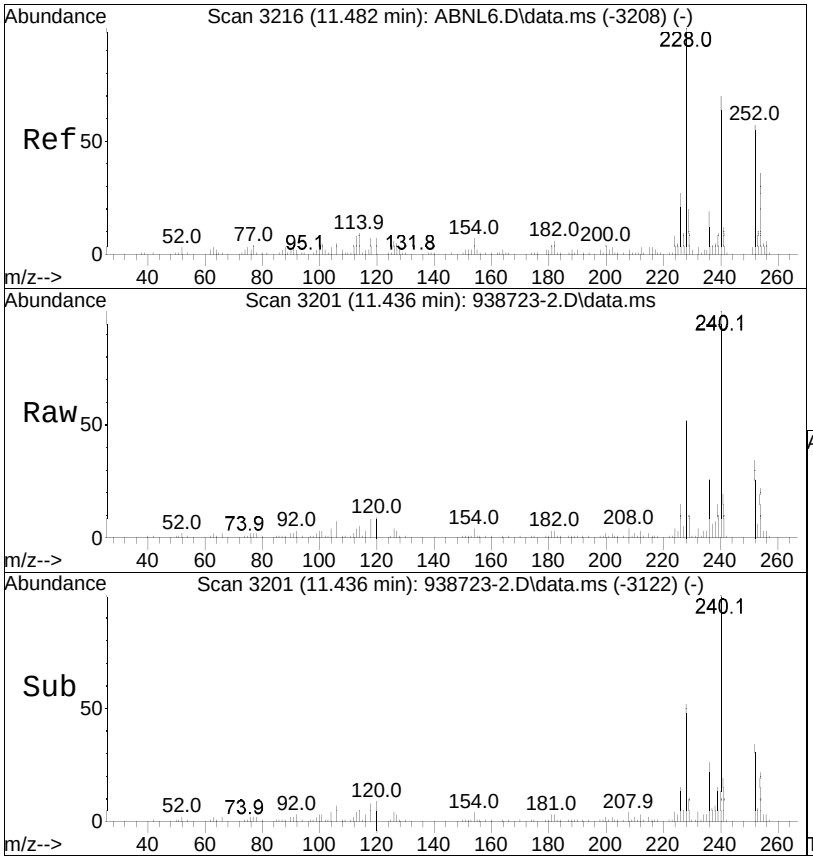


#97
Butyl benzyl phthalate
Concen: 2.99 ug/ml
RT: 10.932 min Scan# 3039
Delta R.T. -0.003 min
Lab File: 938723-2.D
Acq: 25 Jun 2024 10:40 am

Tgt Ion:149 Resp: 64703

Ion	Ratio	Lower	Upper
149	100		
91	63.0	63.3	94.9#
206	15.6	13.9	20.9

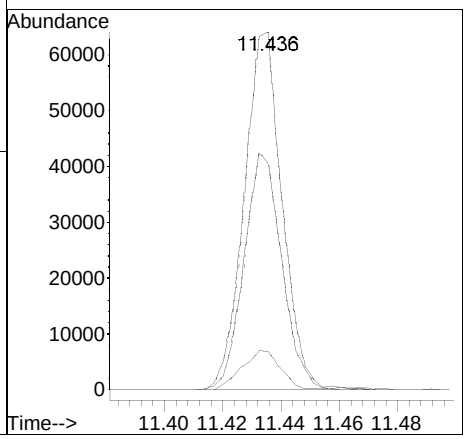


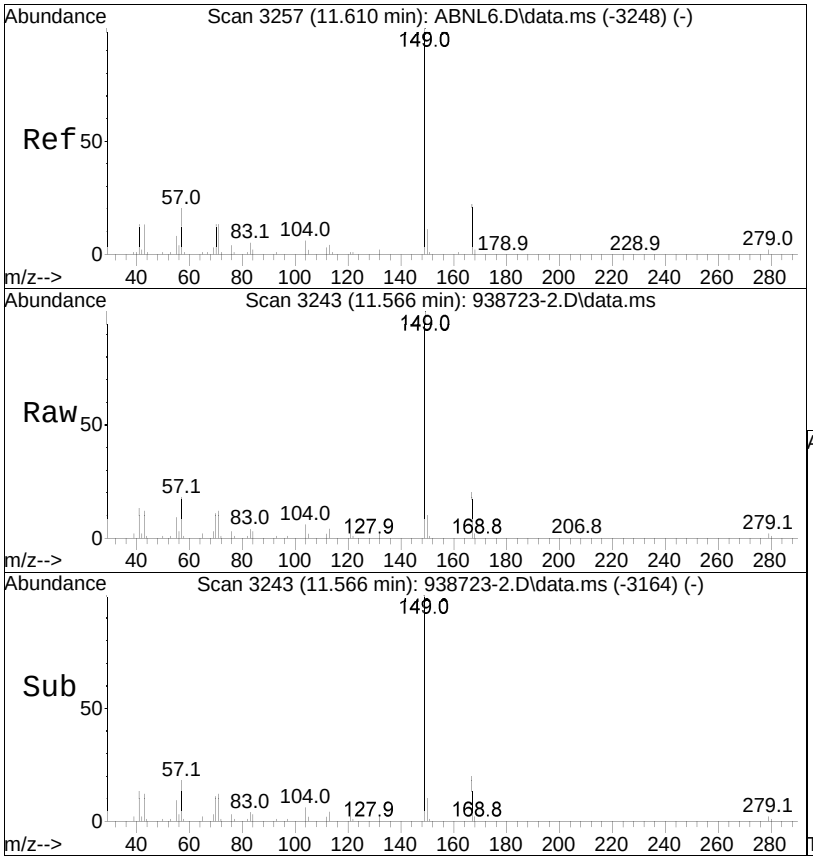


#106
3,3'-Dichlorobenzidine
Concen: 2.62 ug/ml
RT: 11.436 min Scan# 3201
Delta R.T. -0.003 min
Lab File: 938723-2.D
Acq: 25 Jun 2024 10:40 am

Tgt Ion:252 Resp: 57436

Ion	Ratio	Lower	Upper
252	100		
126	11.4	14.5	21.7#
254	65.9	51.2	76.8

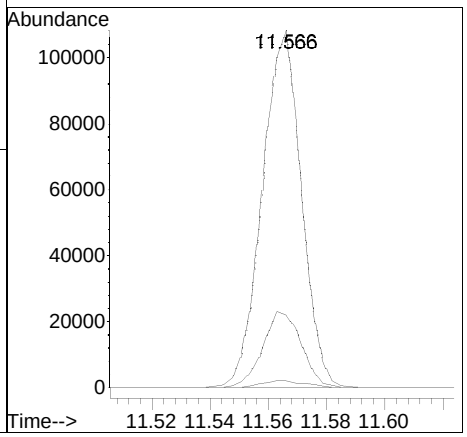


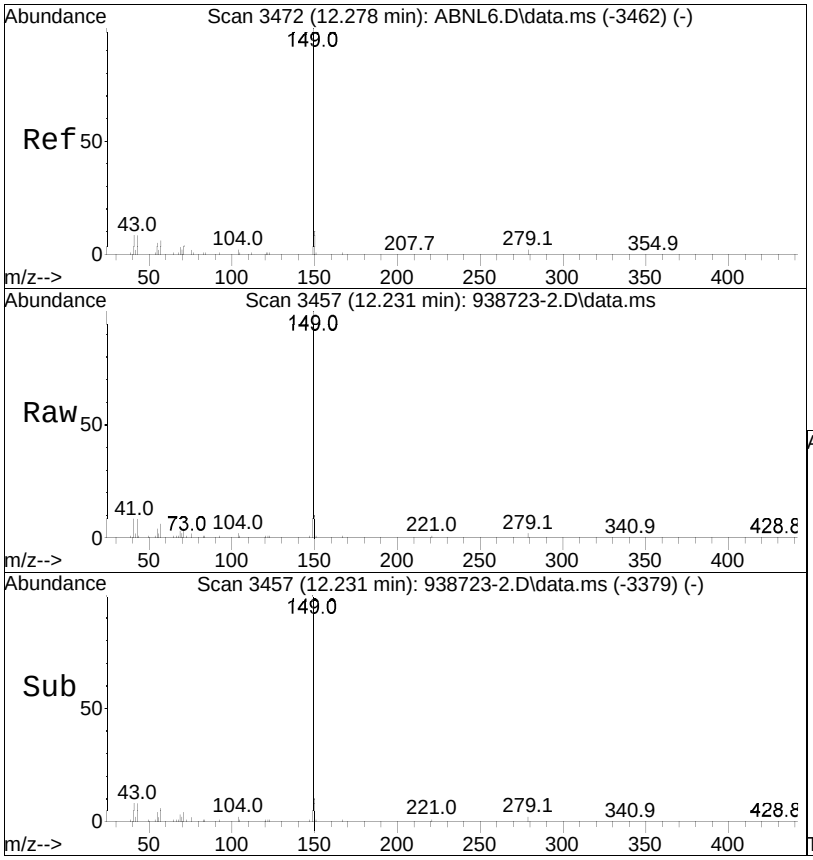


#108
Bis(2-ethylhexyl)phthalate
Concen: 3.01 ug/ml
RT: 11.566 min Scan# 3243
Delta R.T. -0.003 min
Lab File: 938723-2.D
Acq: 25 Jun 2024 10:40 am

Tgt Ion:149 Resp: 99782

Ion	Ratio	Lower	Upper
149	100		
167	21.1	22.1	33.1#
279	1.9	3.0	4.4#

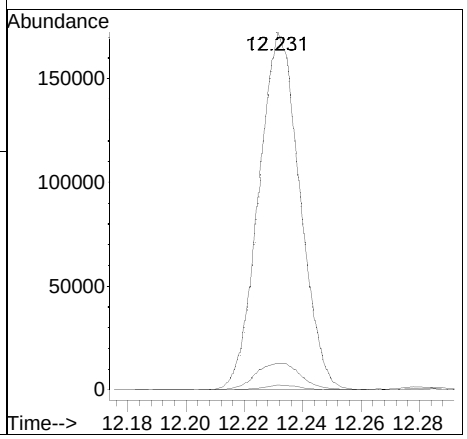




#109
Di-n-octylphthalate
Concen: 3.02 ug/ml
RT: 12.231 min Scan# 3457
Delta R.T. -0.006 min
Lab File: 938723-2.D
Acq: 25 Jun 2024 10:40 am

Tgt Ion:149 Resp: 166781

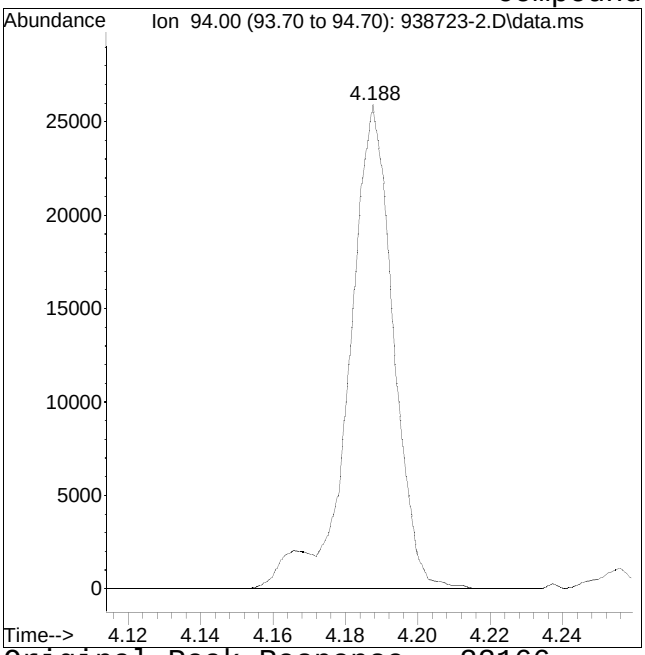
Ion	Ratio	Lower	Upper
149	100		
43	8.5	18.8	28.2#
167	1.2	1.3	1.9#



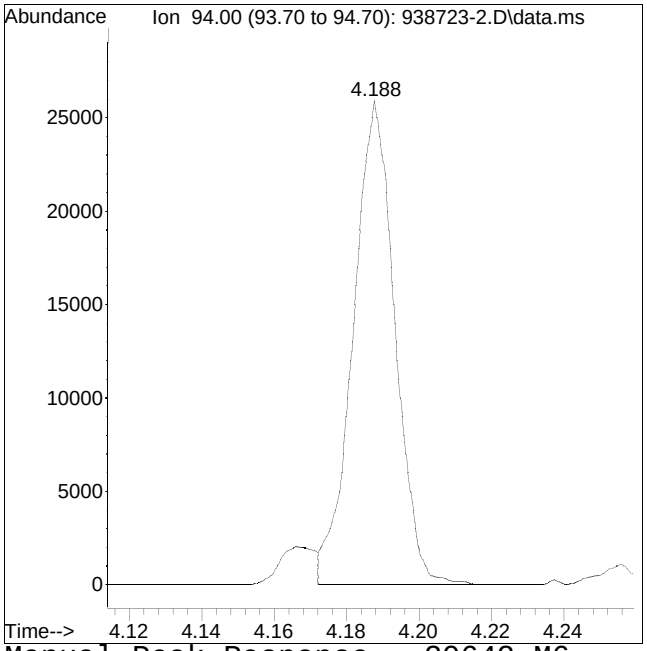
Manual Integration Report

Data Path : I:\8270\Dakota\240625RVT\ QMethod : FS240618RVT_14D_Dakota.m
Data File : 938723-2.D Operator : Dakota:ljg
Date Inj'd : 6/25/2024 10:40 am Instrument : Dakota
Sample : WG1938723-2,32,,gmr Quant Date : 6/25/2024 10:59 am

Compound #8: Phenol



Original Peak Response = 22166



Manual Peak Response = 20642 M6

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\240624RVT\
Data File : 938279-3.D
Acq On : 24 Jun 2024 5:22 pm
Operator : Dakota:jg
Sample : WG1938279-3,32,,HNY
Misc : WG1938645,WG1938279,ical21225
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jun 25 20:12:57 2024
Quant Method : I:\8270\Dakota\240624RVT\FS240618RVT_14D_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Jun 25 20:11:47 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\240624RVT\ABN0624.D
: 2 - I:\8270\Dakota\240624RVT\ADP0624.D
: 3 - I:\8270\Dakota\240624RVT\AP90624.D
Sub List : 8270TCL_REV2 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) IS1_1,4-Dichlorobenzen...	4.505	152	29383	4.000	ug/ml	0.00
Standard Area 1 = 25255			Recovery = 116.35%			
27) IS2_1,4-Dichlorobenzen...	4.505	152	29383	4.000	ug/ml	0.00
Standard Area 3 = 26504			Recovery = 110.86%			
32) IS3_1,4-Dichlorobenzen...	4.505	152	29383	4.000	ug/ml	0.00
Standard Area 2 = 26042			Recovery = 112.83%			
35) IS1_Naphthalene-d8	5.739	136	105208	4.000	ug/ml	0.00
Standard Area 1 = 92102			Recovery = 114.23%			
55) IS2_Naphthalene-d8	5.739	136	105208	4.000	ug/ml	0.00
Standard Area 3 = 100155			Recovery = 105.05%			
63) IS1_Acenaphthene-d10	7.436	164	69106	4.000	ug/ml	0.00
Standard Area 1 = 69151			Recovery = 99.93%			
83) IS2_Acenaphthene-d10	7.436	164	69106	4.000	ug/ml	0.00
Standard Area 3 = 69129			Recovery = 99.97%			
86) IS3_Acenaphthene-d10	7.436	164	69106	4.000	ug/ml	0.00
Standard Area 2 = 63201			Recovery = 109.34%			
88) IS1_Phenanthrene-d10	8.856	188	153675	4.000	ug/ml	0.00
Standard Area 1 = 156078			Recovery = 98.46%			
100) IS3_Phenanthrene-d10	8.856	188	153675	4.000	ug/ml	0.00
Standard Area 2 = 157977			Recovery = 97.28%			
104) IS1_Chrysene-d12	11.458	240	151643	4.000	ug/ml	0.00
Standard Area 1 = 161664			Recovery = 93.80%			
113) IS1_Perylene-d12	12.903	264	176626	4.000	ug/ml	0.00
Standard Area 1 = 190313			Recovery = 92.81%			
System Monitoring Compounds						
4) 2-Fluorophenol	3.234	112	21477	2.845	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 142.25%#			
7) Phenol-d6	4.194	99	23853	2.503	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 125.15%#			
19) Nitrobenzene-d5	5.049	82	14366	1.444	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 144.40%#			
46) 2-Fluorobiphenyl	6.808	172	40025	1.518	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 151.80%#			
79) 2,4,6-Tribromophenol	8.194	330	14823	3.282	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 164.10%#			

Data Path : I:\8270\Dakota\240624RVT\
Data File : 938279-3.D
Acq On : 24 Jun 2024 5:22 pm
Operator : Dakota:jg
Sample : WG1938279-3,32,,HNY
Misc : WG1938645,WG1938279,ical21225
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jun 25 20:12:57 2024
Quant Method : I:\8270\Dakota\240624RVT\FS240618RVT_14D_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Jun 25 20:11:47 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\240624RVT\ABN0624.D
: 2 - I:\8270\Dakota\240624RVT\ADP0624.D
: 3 - I:\8270\Dakota\240624RVT\AP90624.D
Sub List : 8270TCL_REV2 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
96) 4-Terphenyl-d14	10.429	244	61541	1.540	ug/ml	0.00

Spiked Amount 1.000 Range 30 - 130 Recovery = 154.00%#

Target Compounds					Qvalue
6) 2-Chlorophenol	4.300	128	25088	2.969 ug/ml	90
8) Phenol	4.203	94	28126	2.533 ug/ml	92
9) Bis(2-chloroethyl)ether	4.272	93	20184	2.772 ug/ml	97
14) Bis(2-chloroisopropyl)...	4.803	45	29999	2.763 ug/ml#	40
15) 2-Methylphenol	4.794	108	22429	2.940 ug/ml	95
17) n-Nitrosodi-n-propylamine	4.931	70	19327	2.885 ug/ml#	86
18) 3-Methylphenol/4-Methy...	4.952	108	24362	3.028 ug/ml	93
20) Nitrobenzene	5.064	77	28287	2.967 ug/ml	92
21) Isophorone	5.307	82	48214	2.885 ug/ml#	93
22) 2-Nitrophenol	5.381	139	14595	3.086 ug/ml	87
23) 2,4-Dimethylphenol	5.462	107	22601	2.805 ug/ml	96
24) Bis(2-chloroethoxy)met...	5.546	93	29965	2.917 ug/ml#	96
25) 2,4-Dichlorophenol	5.621	162	28068	3.088 ug/ml#	92
28) Benzaldehyde	4.070	105	20719	2.722 ug/ml	100
29) Acetophenone	4.909	105	36661	2.817 ug/ml#	77
38) 4-Chloroaniline	5.832	65	9982	2.990 ug/ml	95
40) p-Chloro-m-cresol	6.332	107	23981	3.134 ug/ml	96
43) Hexachlorocyclopentadiene	6.609	237	19474	2.552 ug/ml	96
44) 2,4,6-Trichlorophenol	6.724	196	23318	2.995 ug/ml	97
45) 2,4,5-Trichlorophenol	6.752	196	28354	3.407 ug/ml	98
48) 2-Nitroaniline	7.010	138	17314	2.974 ug/ml	89
51) Dimethyl phthalate	7.215	163	79111	2.913 ug/ml#	98
53) 2,6-Dinitrotoluene	7.255	165	16017	2.988 ug/ml#	77
60) Caprolactam	6.127	55	4991	1.419 ug/ml#	56
61) 1,2,4,5-Tetrachloroben...	6.606	216	35784	2.724 ug/ml#	96
62) Biphenyl	6.895	154	76963	2.738 ug/ml	98
64) 3-Nitroaniline	7.408	138	15640	3.050 ug/ml#	92
66) 2,4-Dinitrophenol	7.510	184	9479	2.706 ug/ml#	82
67) Dibenzofuran	7.635	168	98699	3.002 ug/ml	88
68) 2,4-Dinitrotoluene	7.641	165	21766	3.117 ug/ml	93
69) 4-Nitrophenol	7.604	65	12623	2.939 ug/ml#	89
71) 2,3,4,6-Tetrachlorophenol	7.765	232	22777	3.290 ug/ml	99
72) Diethyl phthalate	7.902	149	78205	2.934 ug/ml	99

Data Path : I:\8270\Dakota\240624RVT\
Data File : 938279-3.D
Acq On : 24 Jun 2024 5:22 pm
Operator : Dakota:jg
Sample : WG1938279-3,32,,HNY
Misc : WG1938645,WG1938279,ical21225
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jun 25 20:12:57 2024
Quant Method : I:\8270\Dakota\240624RVT\FS240618RVT_14D_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Jun 25 20:11:47 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\240624RVT\ABN0624.D
: 2 - I:\8270\Dakota\240624RVT\ADP0624.D
: 3 - I:\8270\Dakota\240624RVT\AP90624.D
Sub List : 8270TCL_REV2 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
74) 4-Chlorophenyl phenyl ...	7.986	204	39493	3.099	ug/ml#	84
75) 4-Nitroaniline	7.992	138	15487	3.066	ug/ml#	84
76) 4,6-Dinitro-o-cresol	8.029	198	13765	3.125	ug/ml#	57
77) NDPA/DPA	8.101	169	66548	3.099	ug/ml	94
80) 4-Bromophenyl phenyl e...	8.452	248	25284	2.983	ug/ml#	76
87) Atrazine	8.639	200	21550	2.772	ug/ml	91
91) Carbazole	9.095	167	119195	3.140	ug/ml	98
92) Di-n-butylphthalate	9.493	149	134495	3.086	ug/ml#	97
97) Butyl benzyl phthalate	10.948	149	60315	3.080	ug/ml	85
106) 3,3'-Dichlorobenzidine	11.454	252	55844	2.976	ug/ml#	96
108) Bis(2-ethylhexyl)phtha...	11.582	149	90107	3.168	ug/ml#	90
109) Di-n-octylphthalate	12.253	149	147443	3.109	ug/ml#	71

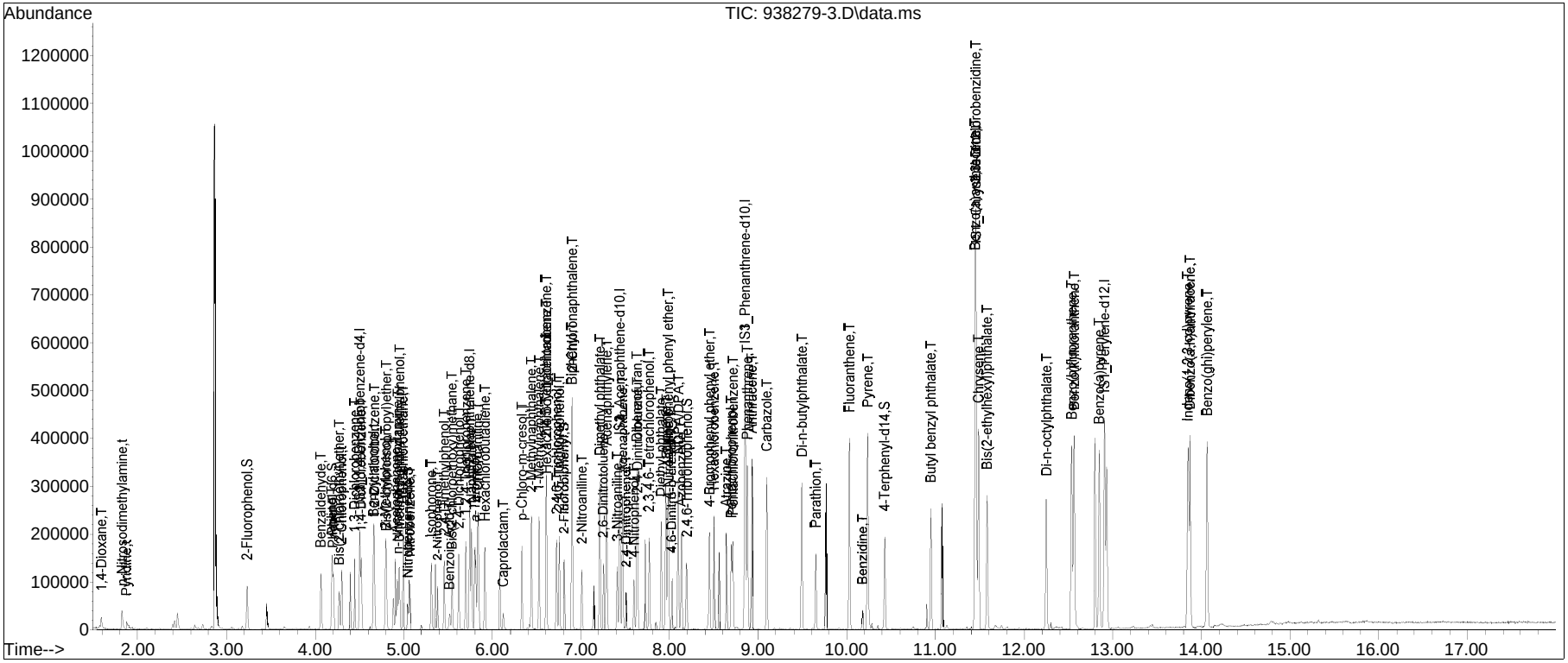
(#) = qualifier out of range (m) = manual integration (+) = signals summed

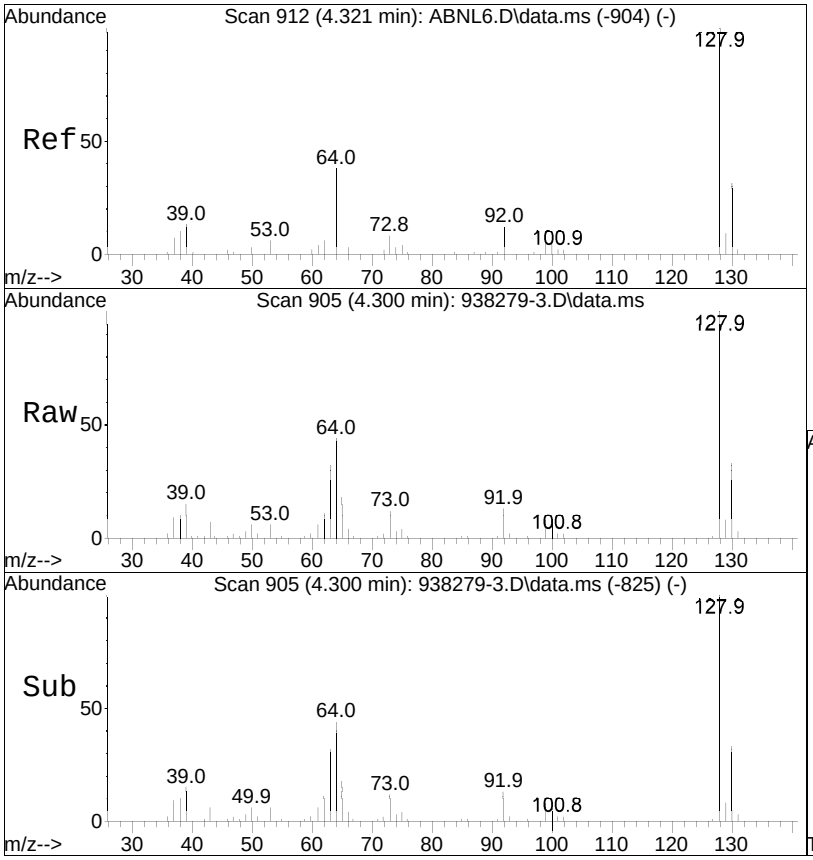
Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\240624RVT\
Data File : 938279-3.D
Acq On : 24 Jun 2024 5:22 pm
Operator : Dakota:jg
Sample : WG1938279-3,32,,HNY
Misc : WG1938645,WG1938279,ical21225
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jun 25 20:12:57 2024
Quant Method : I:\8270\Dakota\240624RVT\FS240618RVT_14D_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Jun 25 20:11:47 2024
Response via : Initial Calibration

Sub List : 8270TCL_REV2 - TCL/CT/MA4RVT\AP90624.D•

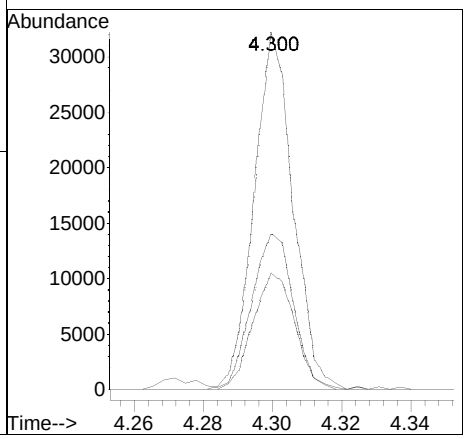


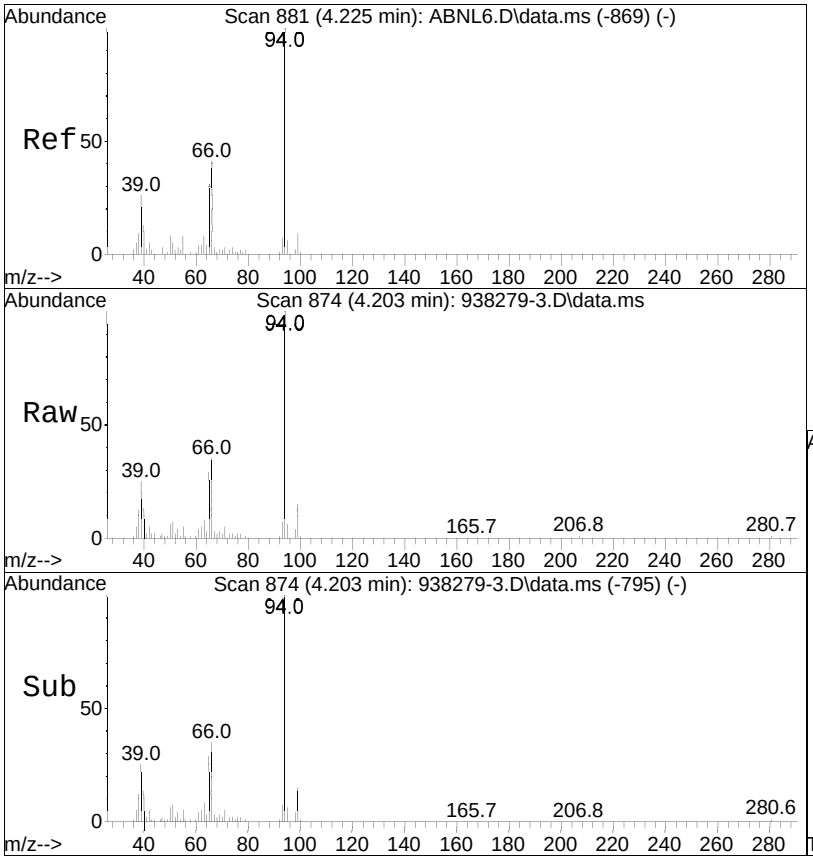


#6
2-Chlorophenol
Concen: 2.97 ug/ml
RT: 4.300 min Scan# 905
Delta R.T. 0.000 min
Lab File: 938279-3.D
Acq: 24 Jun 2024 5:22 pm

Tgt Ion:128 Resp: 25088

Ion	Ratio	Lower	Upper
128	100		
64	46.5	45.1	67.7
130	34.9	26.2	39.4

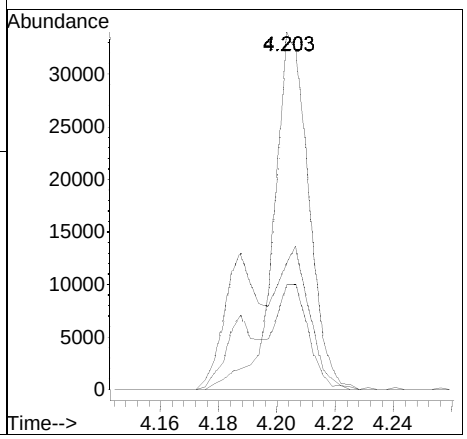


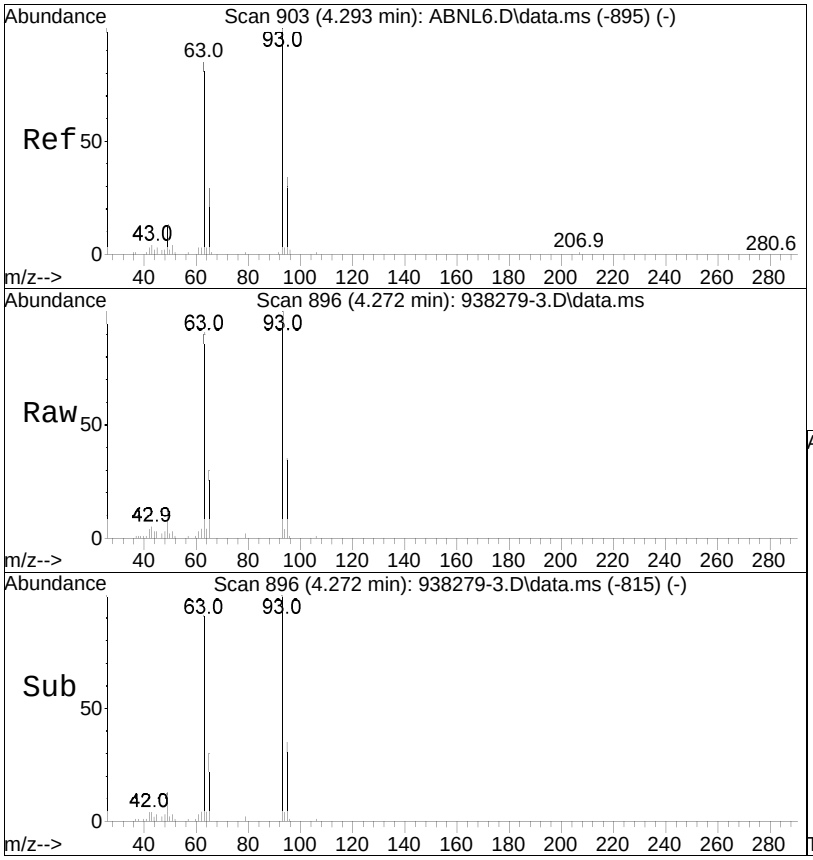


#8
Phenol
Concen: 2.53 ug/ml
RT: 4.203 min Scan# 874
Delta R.T. -0.003 min
Lab File: 938279-3.D
Acq: 24 Jun 2024 5:22 pm

Tgt Ion: 94 Resp: 28126

Ion	Ratio	Lower	Upper
94	100		
65	29.3	26.0	39.0
66	35.9	33.8	50.8

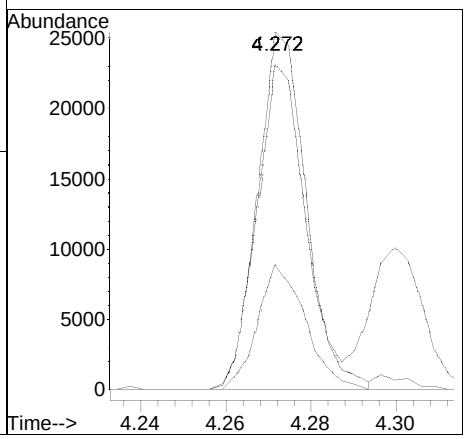


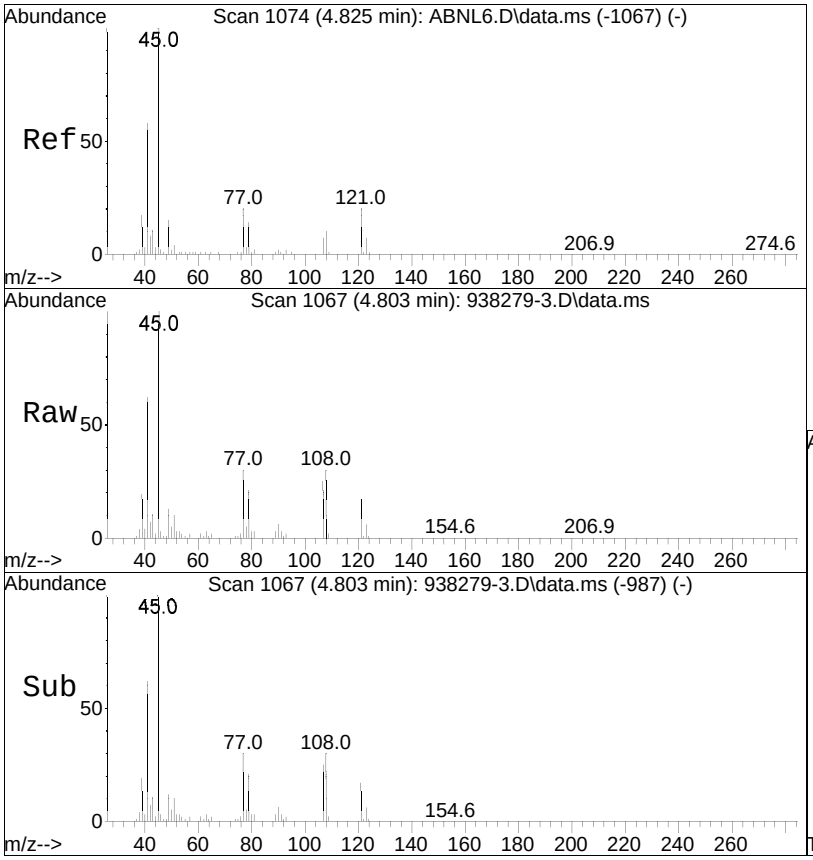


#9
Bis(2-chloroethyl)ether
Concen: 2.77 ug/ml
RT: 4.272 min Scan# 896
Delta R.T. 0.000 min
Lab File: 938279-3.D
Acq: 24 Jun 2024 5:22 pm

Tgt Ion: 93 Resp: 20184

Ion	Ratio	Lower	Upper
93	100		
63	90.7	74.6	111.8
95	34.5	25.9	38.9

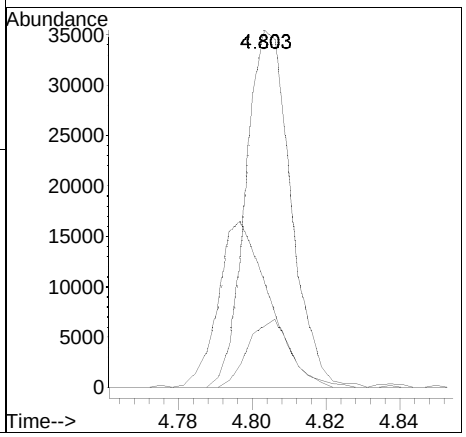


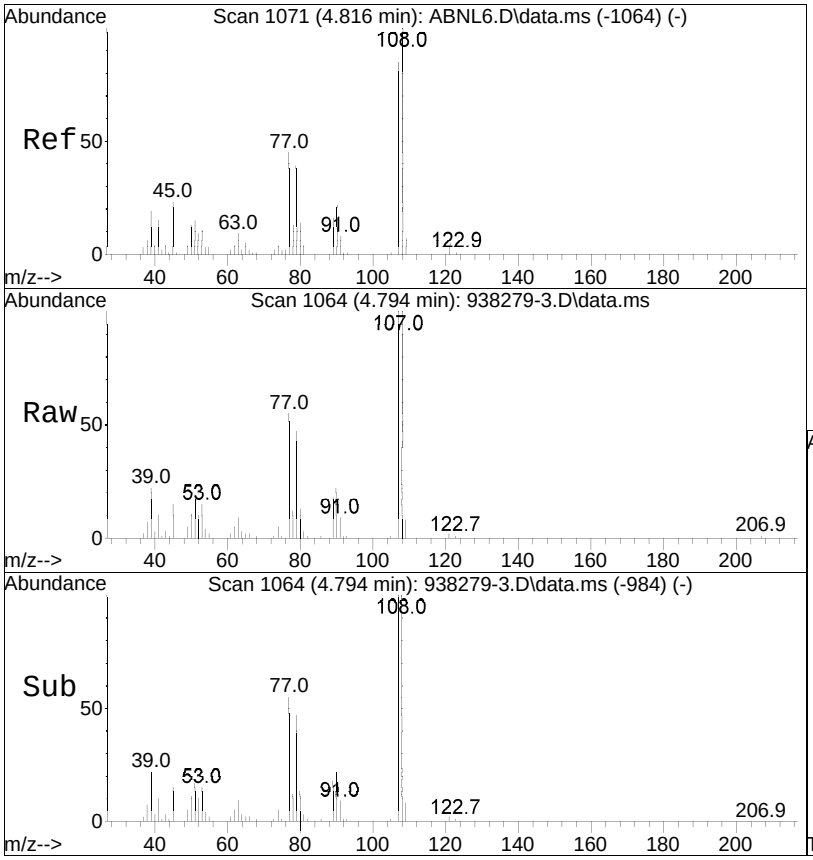


#14
Bis(2-chloroisopropyl)ether
Concen: 2.76 ug/ml
RT: 4.803 min Scan# 1067
Delta R.T. 0.000 min
Lab File: 938279-3.D
Acq: 24 Jun 2024 5:22 pm

Tgt Ion: 45 Resp: 29999

Ion	Ratio	Lower	Upper
45	100		
121	18.2	9.8	14.6#
77	53.2	6.1	9.1#

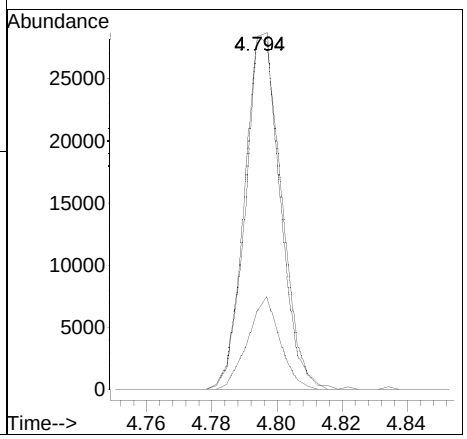


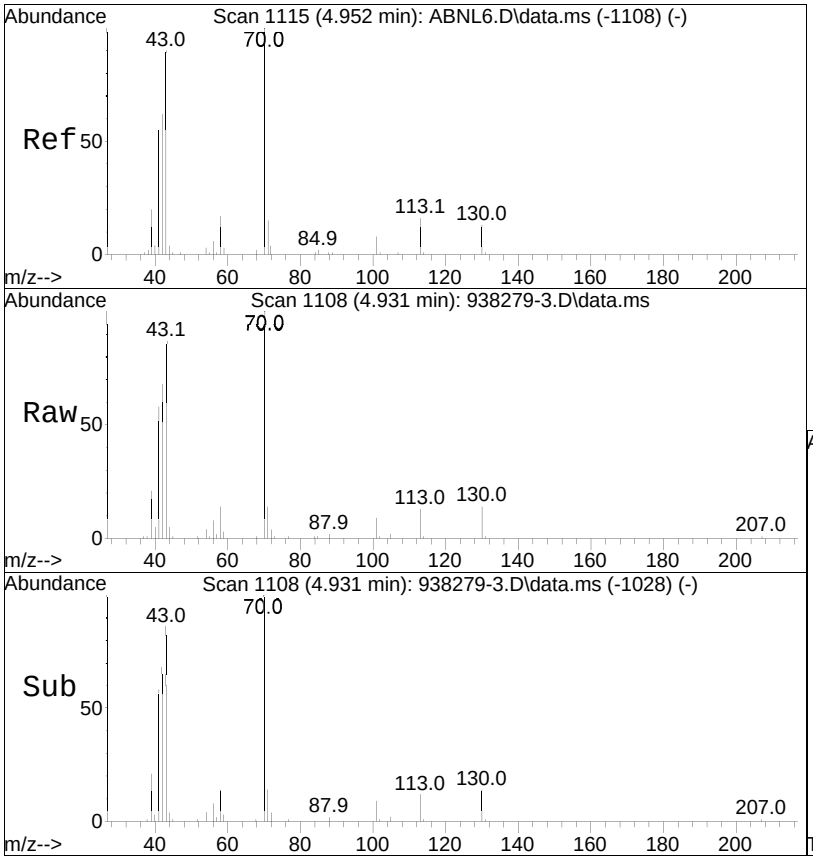


#15
2-Methylphenol
Concen: 2.94 ug/ml
RT: 4.794 min Scan# 1064
Delta R.T. 0.000 min
Lab File: 938279-3.D
Acq: 24 Jun 2024 5:22 pm

Tgt Ion:108 Resp: 22429

Ion	Ratio	Lower	Upper
108	100		
107	94.4	70.7	106.1
90	23.0	18.7	28.1

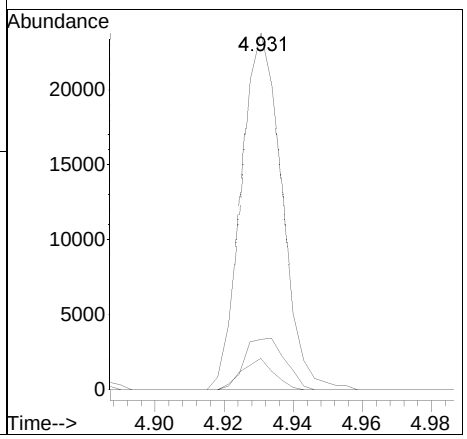


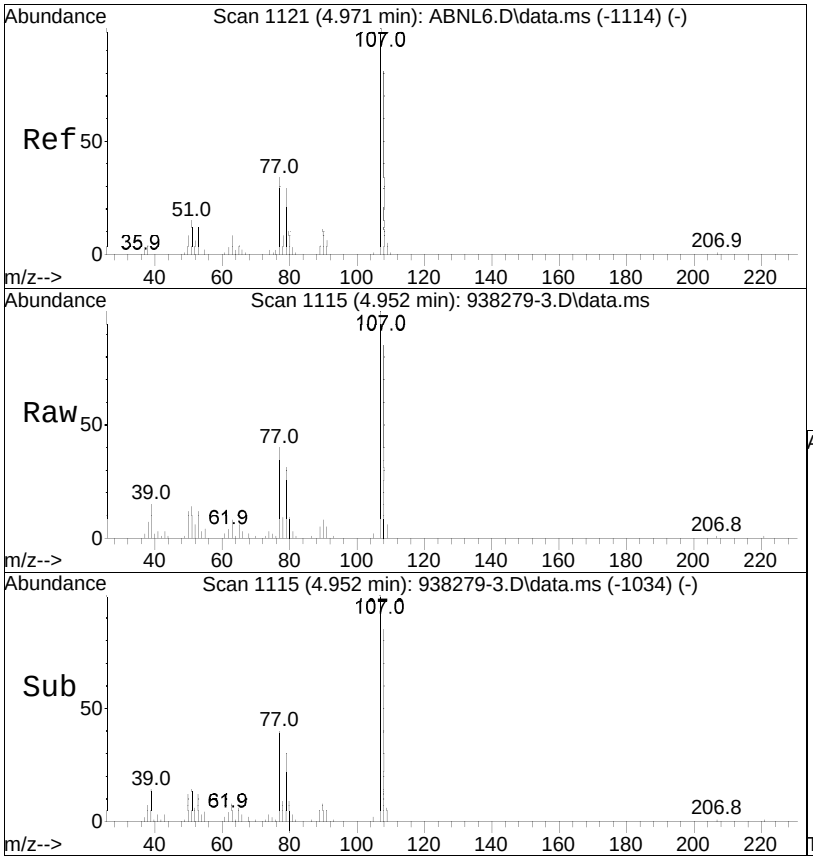


#17
n-Nitrosodi-n-propylamine
Concen: 2.88 ug/ml
RT: 4.931 min Scan# 1108
Delta R.T. 0.000 min
Lab File: 938279-3.D
Acq: 24 Jun 2024 5:22 pm

Tgt Ion: 70 Resp: 19327

Ion	Ratio	Lower	Upper
70	100		
130	14.5	18.2	27.4#
101	6.9	7.8	11.8#

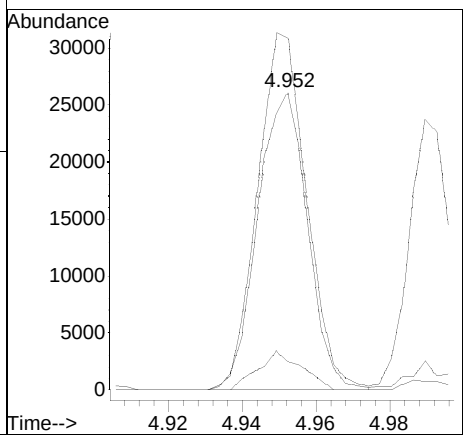


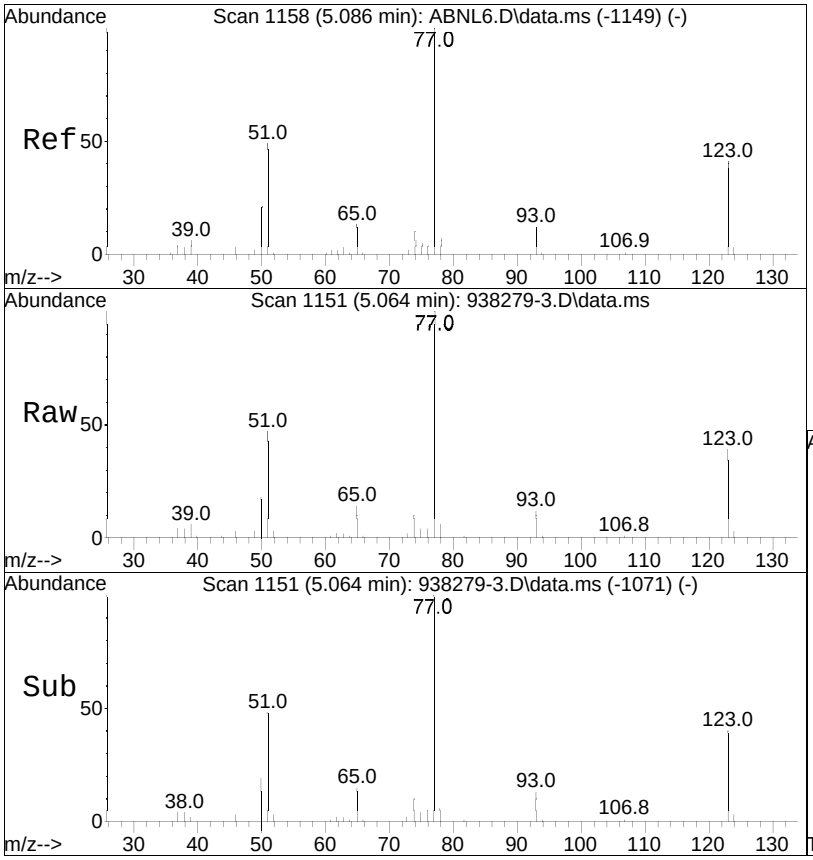


#18
3-Methylphenol/4-Methylphenol
Concen: 3.03 ug/ml
RT: 4.952 min Scan# 1115
Delta R.T. 0.003 min
Lab File: 938279-3.D
Acq: 24 Jun 2024 5:22 pm

Tgt Ion:108 Resp: 24362

Ion	Ratio	Lower	Upper
108	100		
107	118.4	88.6	132.8
90	11.4	8.8	13.2

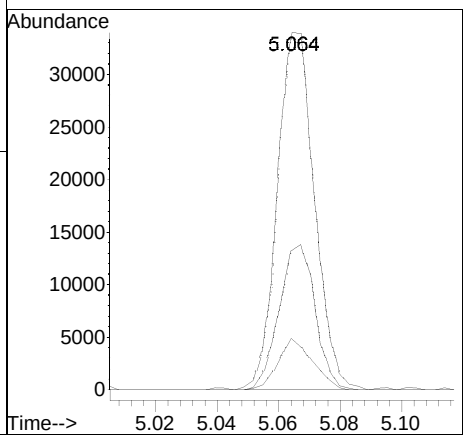


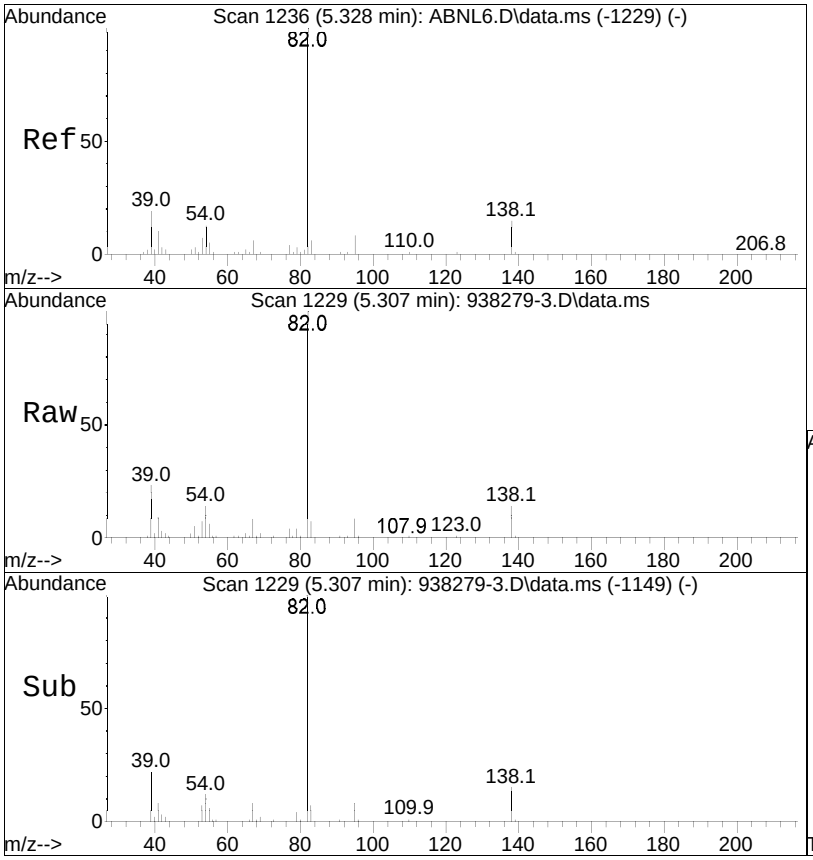


#20
Nitrobenzene
Concen: 2.97 ug/ml
RT: 5.064 min Scan# 1151
Delta R.T. 0.000 min
Lab File: 938279-3.D
Acq: 24 Jun 2024 5:22 pm

Tgt Ion: 77 Resp: 28287

Ion	Ratio	Lower	Upper
77	100		
123	39.4	36.3	54.5
65	13.5	11.6	17.4

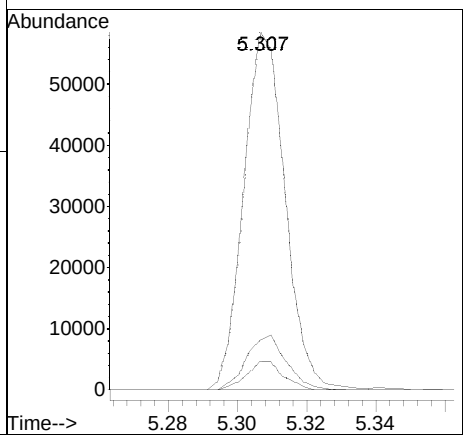


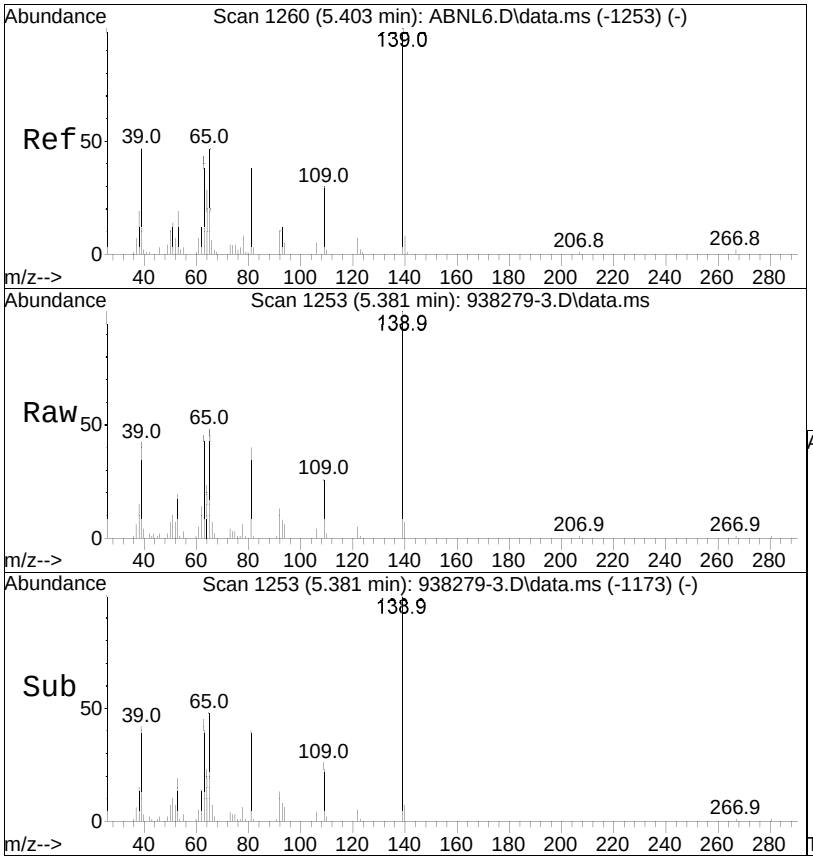


#21
Isophorone
Concen: 2.88 ug/ml
RT: 5.307 min Scan# 1229
Delta R.T. 0.000 min
Lab File: 938279-3.D
Acq: 24 Jun 2024 5:22 pm

Tgt Ion: 82 Resp: 48214

Ion	Ratio	Lower	Upper
82	100		
138	14.7	14.7	22.1#
95	7.1	5.2	7.8

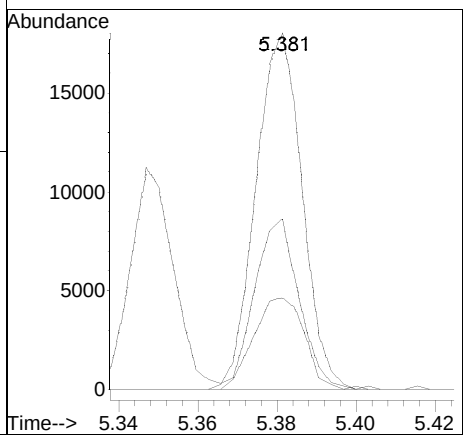


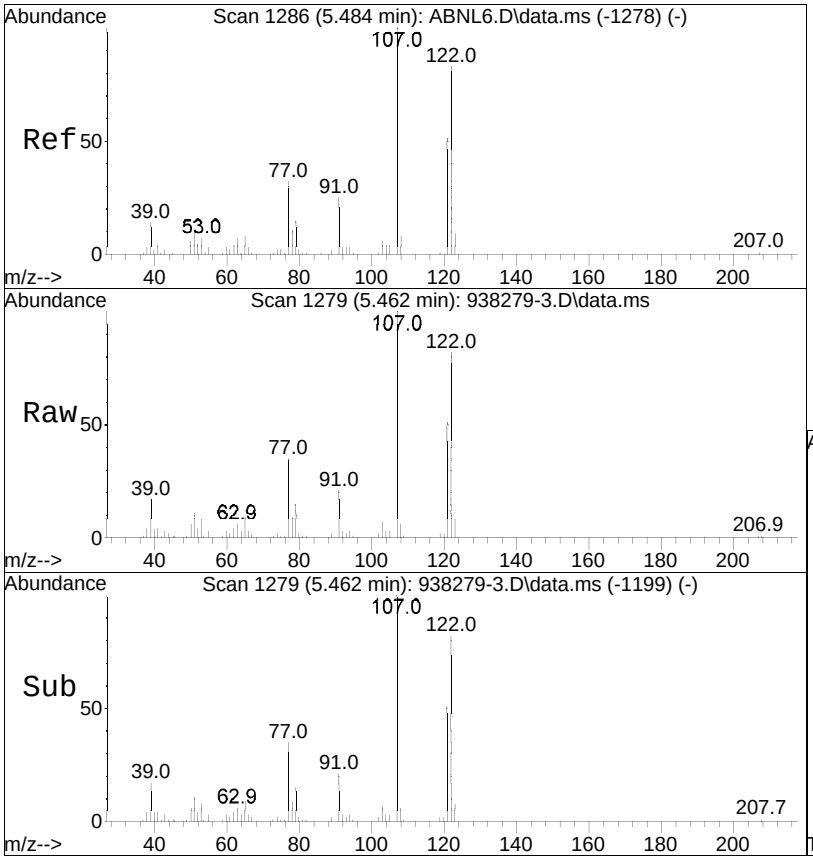


#22
2-Nitrophenol
Concen: 3.09 ug/ml
RT: 5.381 min Scan# 1253
Delta R.T. 0.000 min
Lab File: 938279-3.D
Acq: 24 Jun 2024 5:22 pm

Tgt Ion:139 Resp: 14595

Ion	Ratio	Lower	Upper
139	100		
109	28.3	19.4	29.0
65	46.3	46.1	69.1

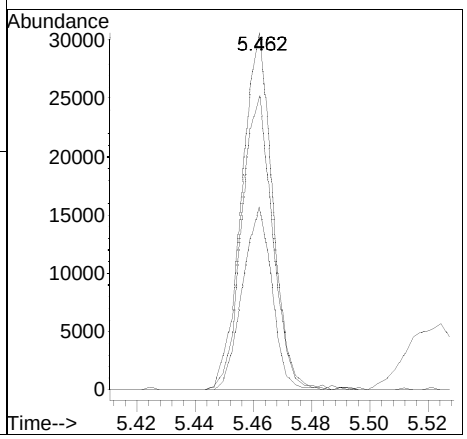


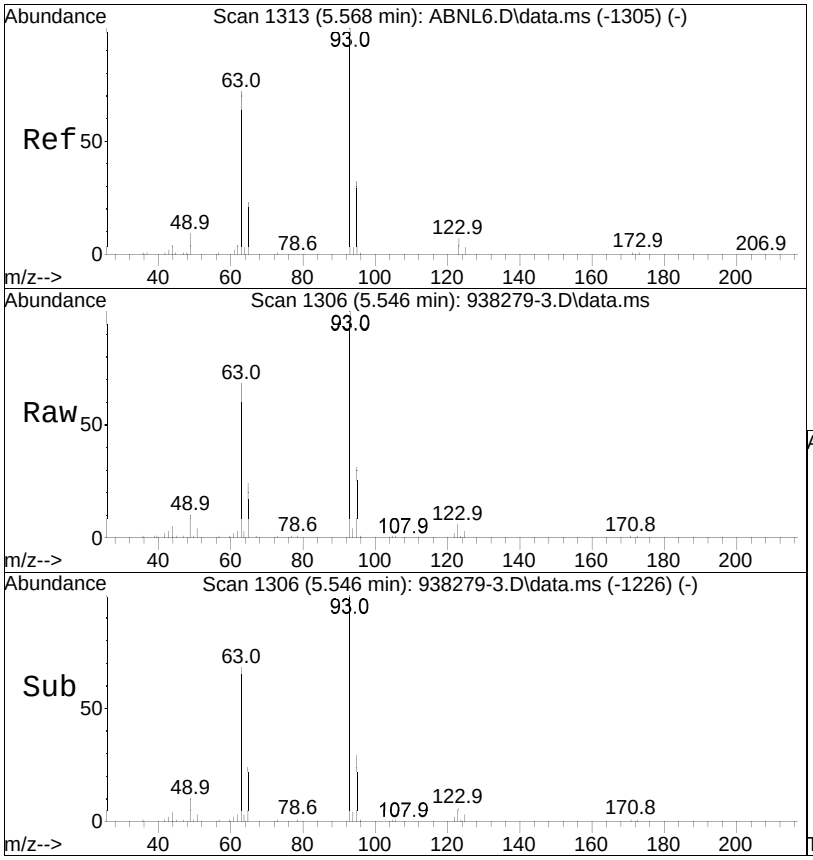


#23
2,4-Dimethylphenol
Concen: 2.81 ug/ml
RT: 5.462 min Scan# 1279
Delta R.T. 0.000 min
Lab File: 938279-3.D
Acq: 24 Jun 2024 5:22 pm

Tgt Ion:107 Resp: 22601

Ion	Ratio	Lower	Upper
107	100		
121	49.0	40.0	60.0
122	82.5	70.2	105.4

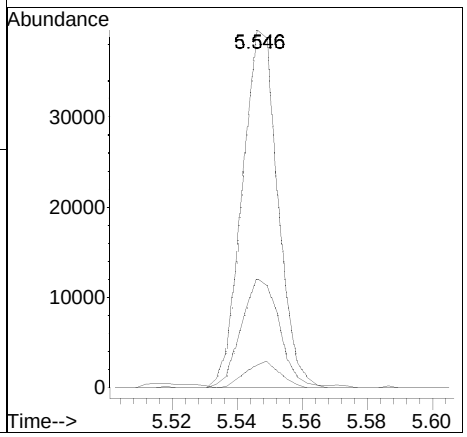


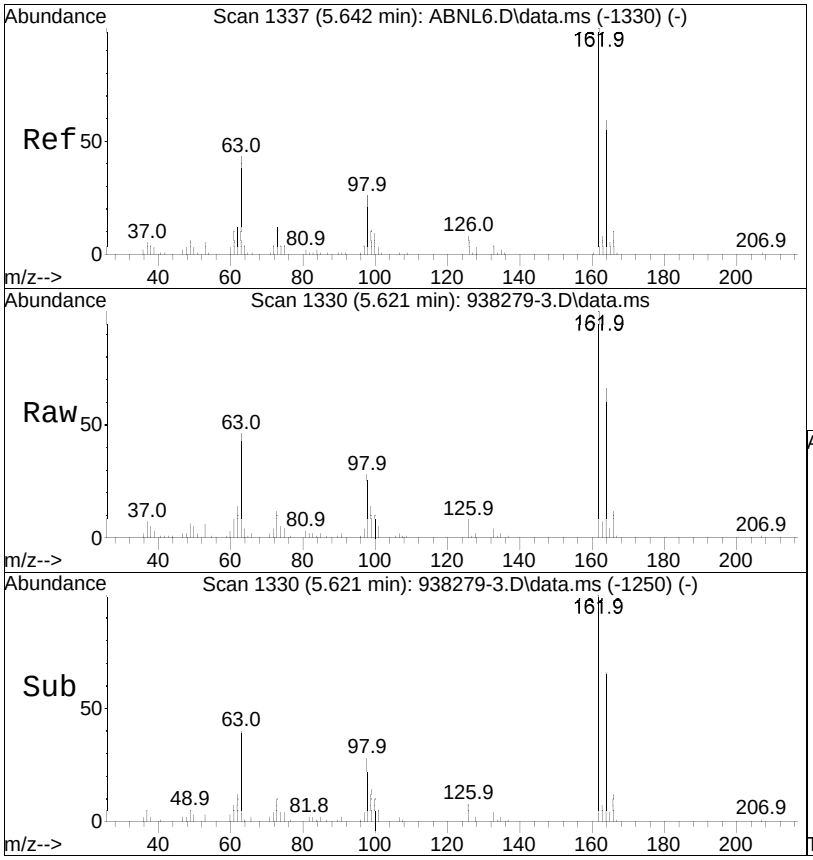


#24
Bis(2-chloroethoxy)methane
Concen: 2.92 ug/ml
RT: 5.546 min Scan# 1306
Delta R.T. 0.000 min
Lab File: 938279-3.D
Acq: 24 Jun 2024 5:22 pm

Tgt Ion: 93 Resp: 29965

Ion	Ratio	Lower	Upper
93	100		
95	32.5	25.8	38.8
123	7.2	10.1	15.1#

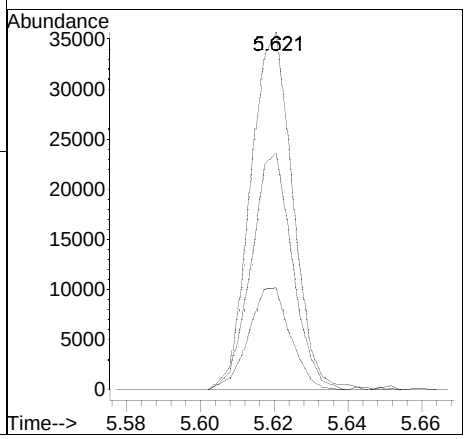


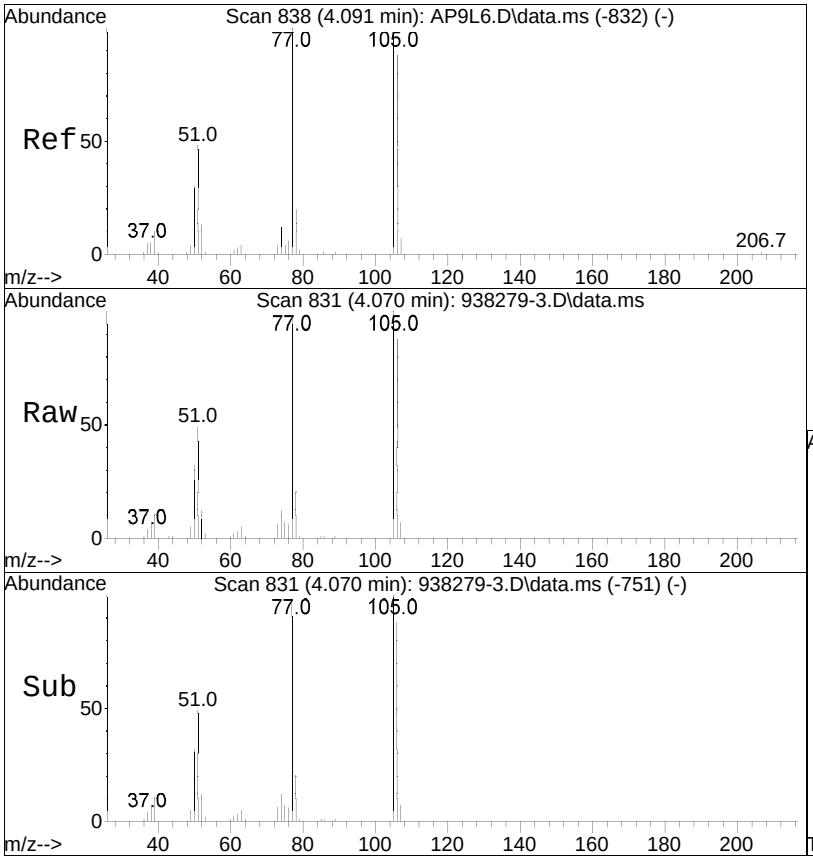


#25
2,4-Dichlorophenol
Concen: 3.09 ug/ml
RT: 5.621 min Scan# 1330
Delta R.T. 0.000 min
Lab File: 938279-3.D
Acq: 24 Jun 2024 5:22 pm

Tgt Ion:162 Resp: 28068

Ion	Ratio	Lower	Upper
162	100		
164	65.3	51.0	76.4
98	28.6	32.2	48.2#

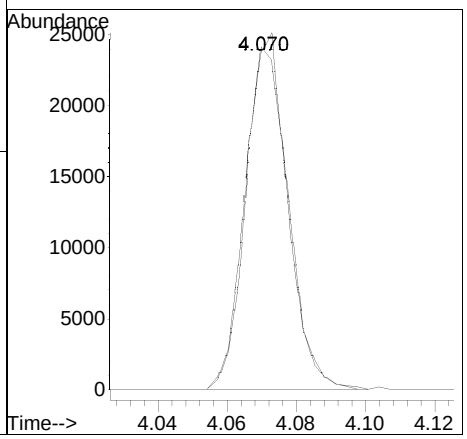


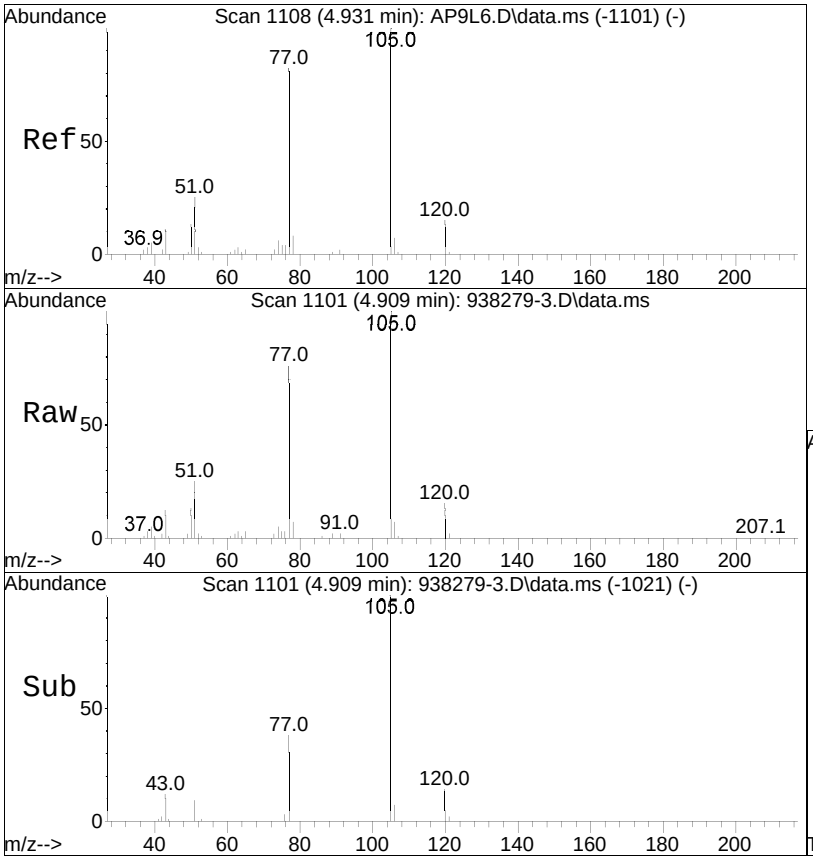


#28
Benzaldehyde
Concen: 2.72 ug/ml
RT: 4.070 min Scan# 831
Delta R.T. -0.000 min
Lab File: 938279-3.D
Acq: 24 Jun 2024 5:22 pm

Tgt Ion:105 Resp: 20719

Ion	Ratio	Lower	Upper
105	100		
77	102.5	82.2	123.4

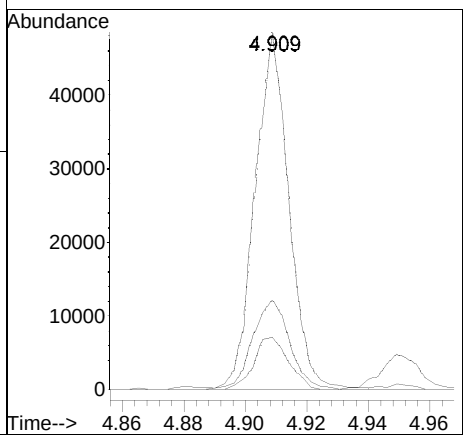


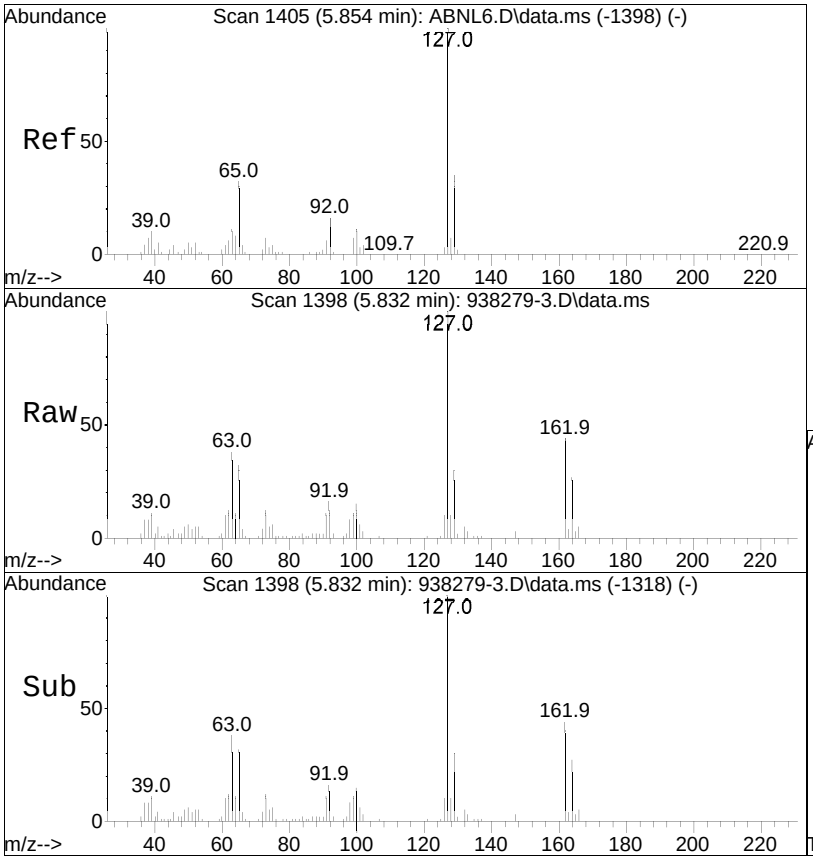


#29
Acetophenone
Concen: 2.82 ug/ml
RT: 4.909 min Scan# 1101
Delta R.T. -0.000 min
Lab File: 938279-3.D
Acq: 24 Jun 2024 5:22 pm

Tgt Ion:105 Resp: 36661

Ion	Ratio	Lower	Upper
105	100		
120	15.2	20.5	30.7#
51	27.4	34.9	52.3#

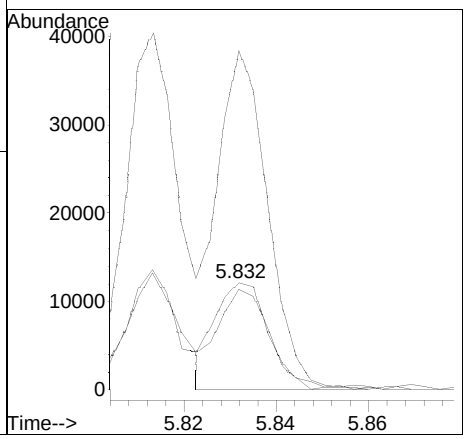


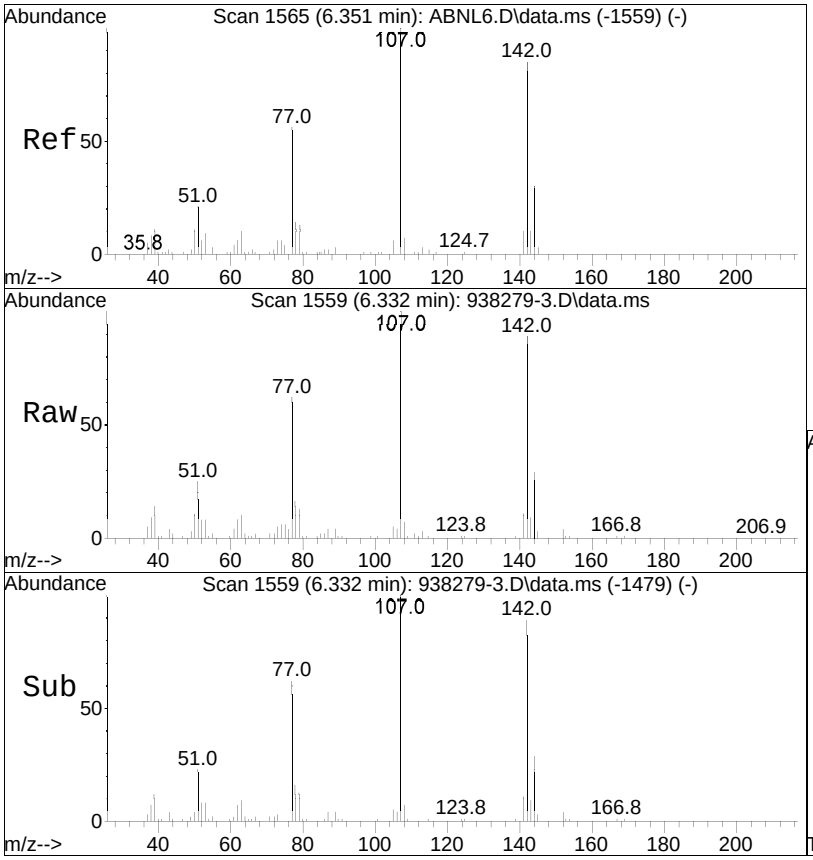


#38
4-Chloroaniline
Concen: 2.99 ug/ml
RT: 5.832 min Scan# 1398
Delta R.T. 0.000 min
Lab File: 938279-3.D
Acq: 24 Jun 2024 5:22 pm

Tgt Ion: 65 Resp: 9982

Ion	Ratio	Lower	Upper
65	100		
127	292.1	237.6	356.4
129	84.6	76.3	114.5

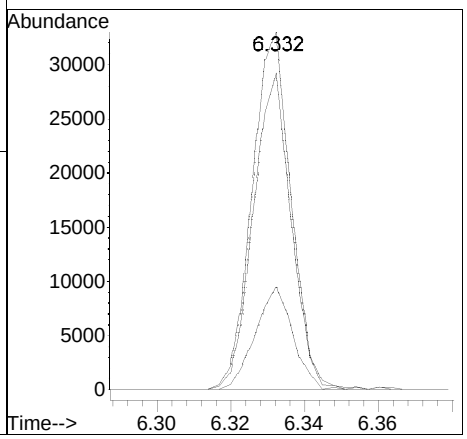


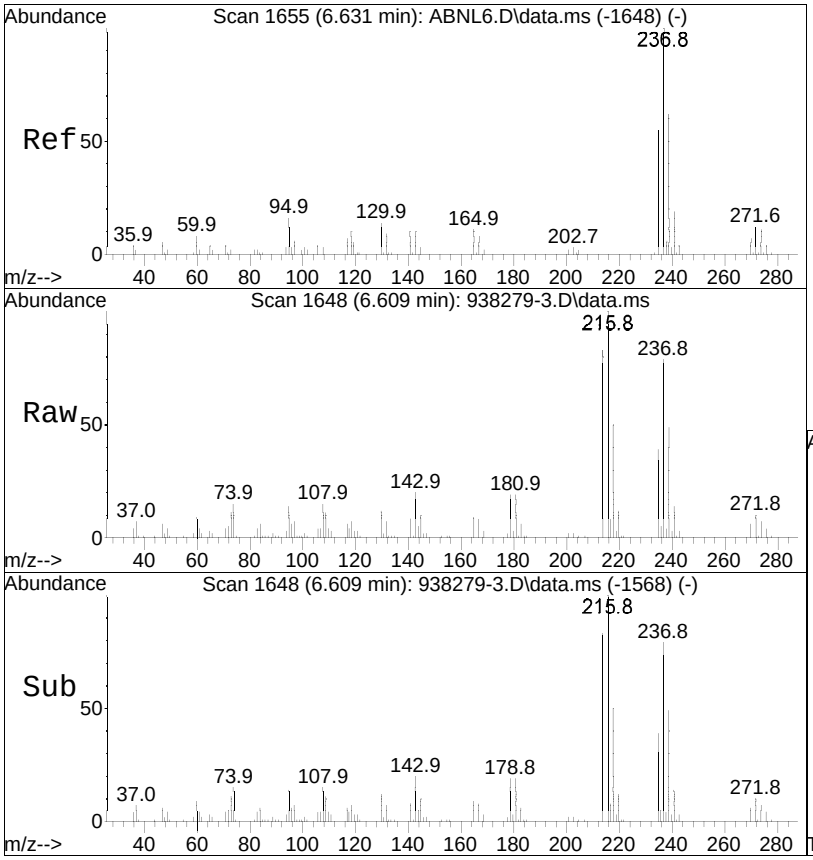


#40
p-Chloro-m-cresol
Concen: 3.13 ug/ml
RT: 6.332 min Scan# 1559
Delta R.T. 0.000 min
Lab File: 938279-3.D
Acq: 24 Jun 2024 5:22 pm

Tgt Ion:107 Resp: 23981

Ion	Ratio	Lower	Upper
107	100		
144	27.8	20.9	31.3
142	85.9	66.1	99.1

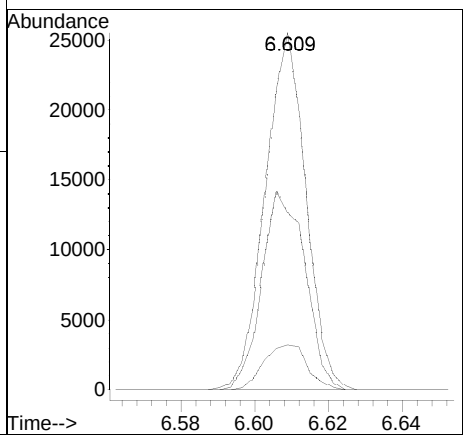


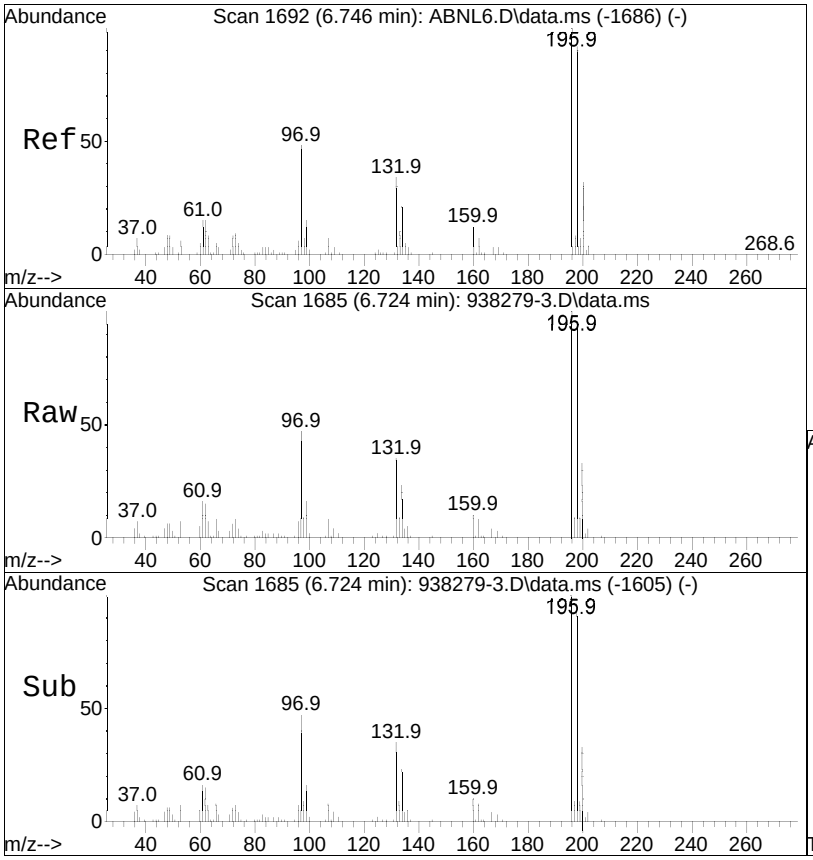


#43
Hexachlorocyclopentadiene
Concen: 2.55 ug/ml
RT: 6.609 min Scan# 1648
Delta R.T. 0.000 min
Lab File: 938279-3.D
Acq: 24 Jun 2024 5:22 pm

Tgt Ion:237 Resp: 19474

Ion	Ratio	Lower	Upper
237	100		
235	59.2	49.7	74.5
272	13.7	9.8	14.6

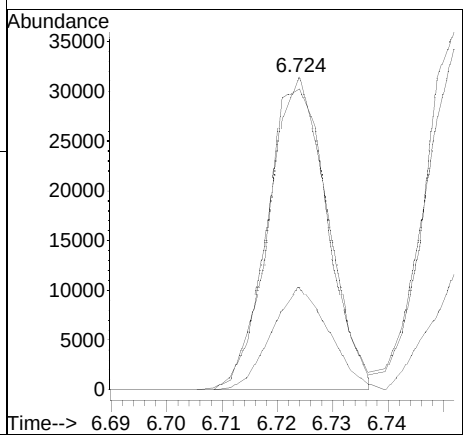


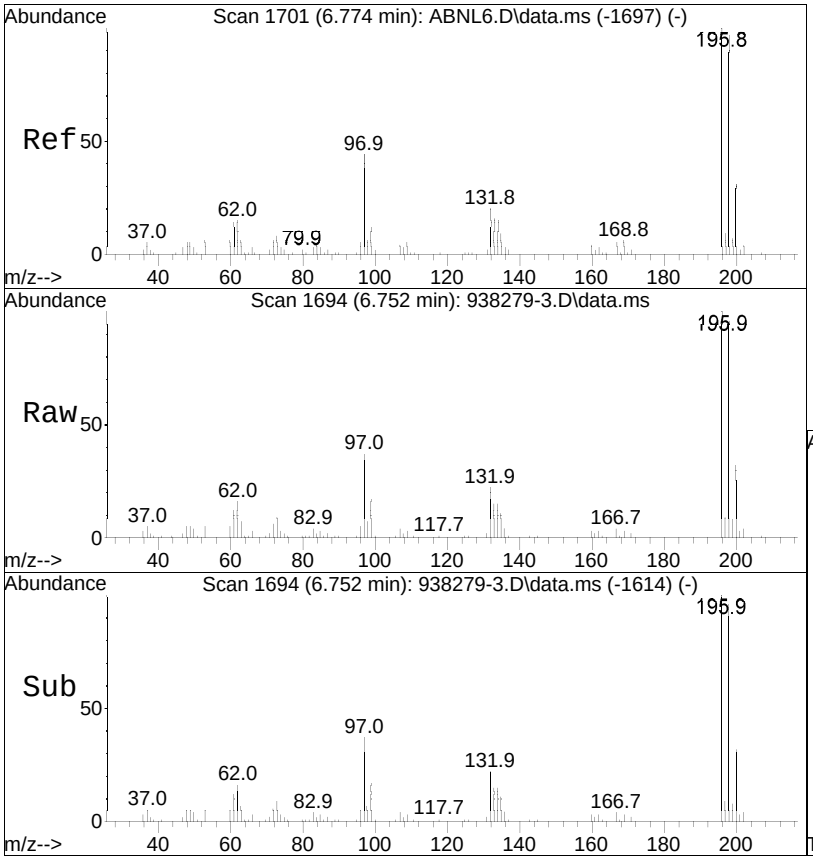


#44
2,4,6-Trichlorophenol
Concen: 2.99 ug/ml
RT: 6.724 min Scan# 1685
Delta R.T. 0.000 min
Lab File: 938279-3.D
Acq: 24 Jun 2024 5:22 pm

Tgt Ion:196 Resp: 23318

Ion	Ratio	Lower	Upper
196	100		
198	99.7	77.5	116.3
200	31.9	23.8	35.6

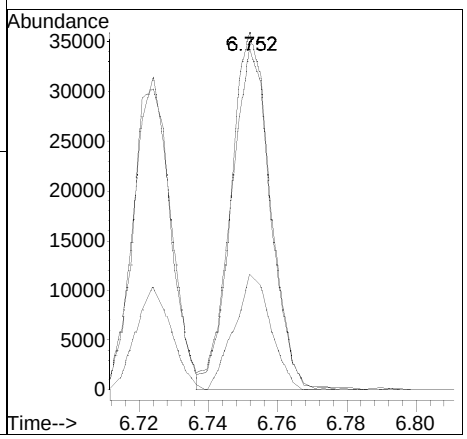


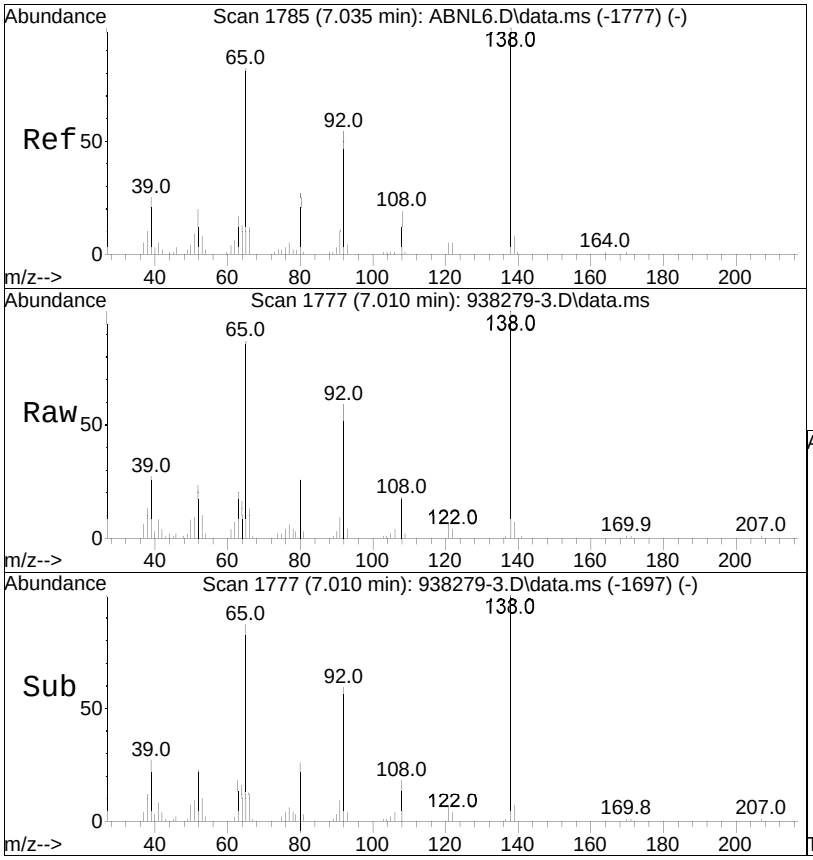


#45
2,4,5-Trichlorophenol
Concen: 3.41 ug/ml
RT: 6.752 min Scan# 1694
Delta R.T. 0.000 min
Lab File: 938279-3.D
Acq: 24 Jun 2024 5:22 pm

Tgt Ion:196 Resp: 28354

Ion	Ratio	Lower	Upper
196	100		
200	30.4	25.4	38.0
198	95.8	78.0	117.0

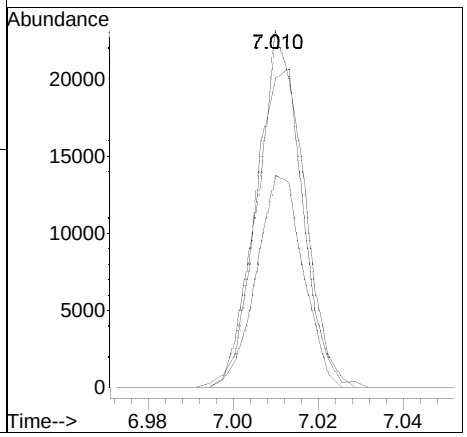


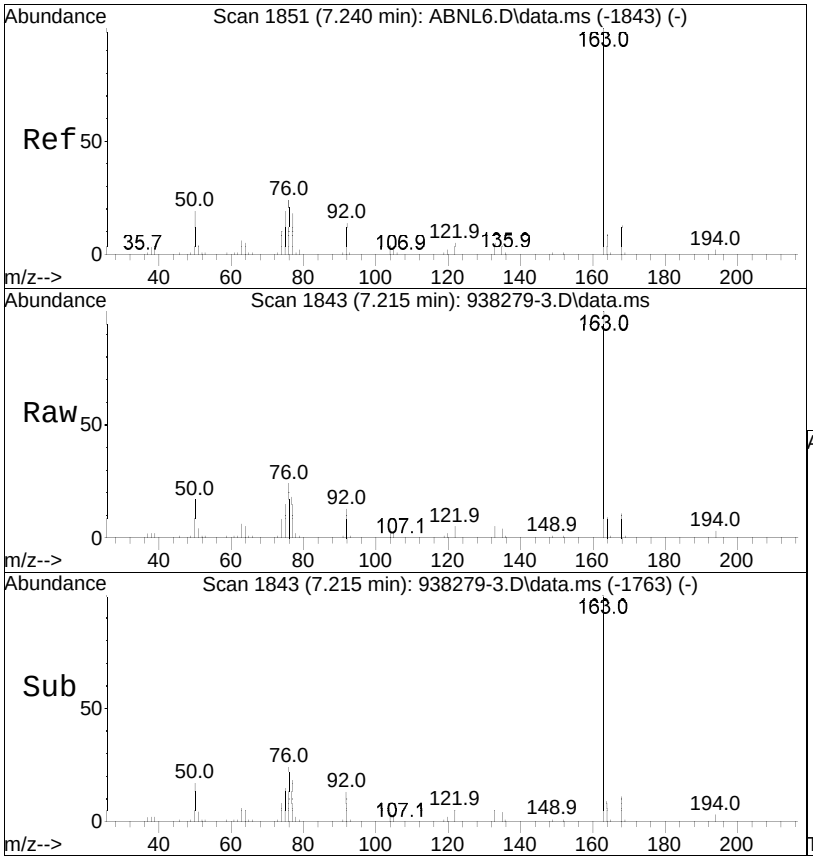


#48
2-Nitroaniline
Concen: 2.97 ug/ml
RT: 7.010 min Scan# 1777
Delta R.T. 0.000 min
Lab File: 938279-3.D
Acq: 24 Jun 2024 5:22 pm

Tgt Ion:138 Resp: 17314

Ion	Ratio	Lower	Upper
138	100		
92	60.5	53.5	80.3
65	93.8	86.3	129.5

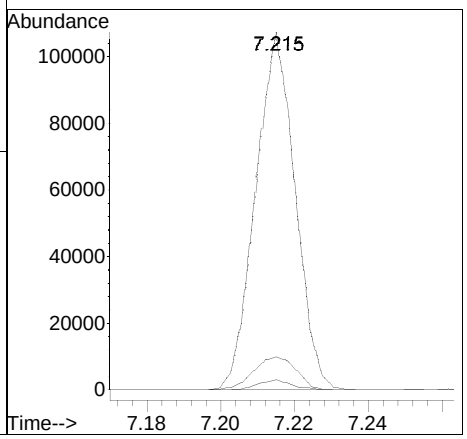


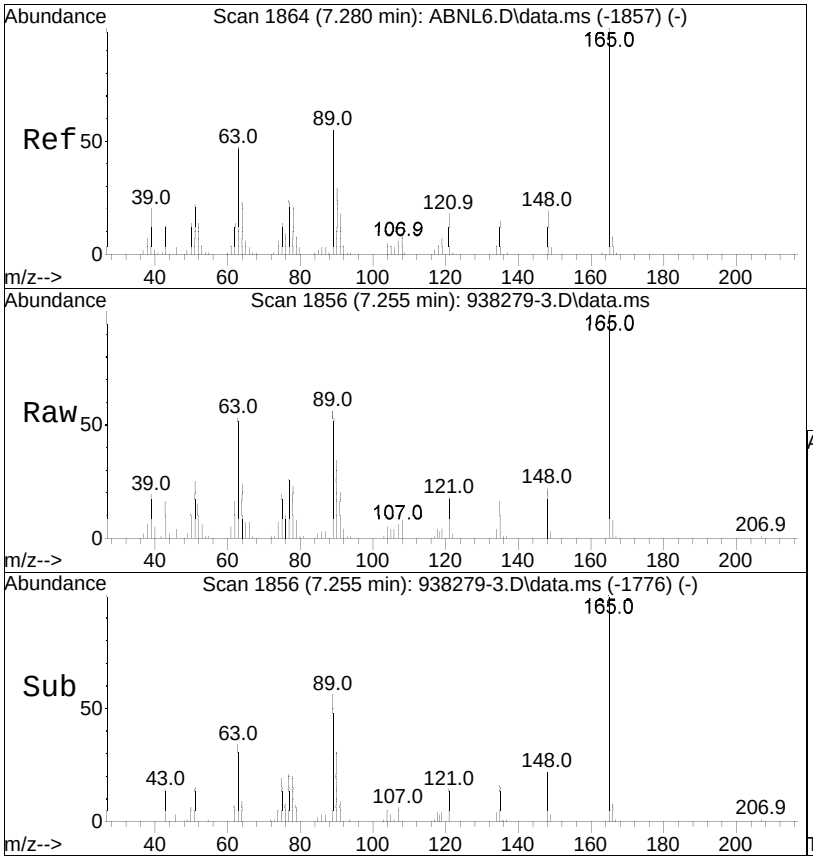


#51
Dimethyl phthalate
Concen: 2.91 ug/ml
RT: 7.215 min Scan# 1843
Delta R.T. 0.000 min
Lab File: 938279-3.D
Acq: 24 Jun 2024 5:22 pm

Tgt Ion:163 Resp: 79111

Ion	Ratio	Lower	Upper
163	100		
194	2.5	3.5	5.3#
164	10.1	7.9	11.9

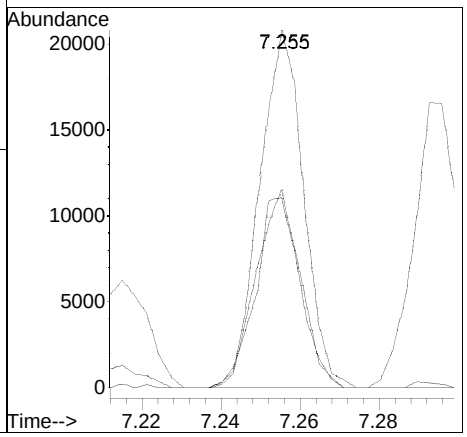


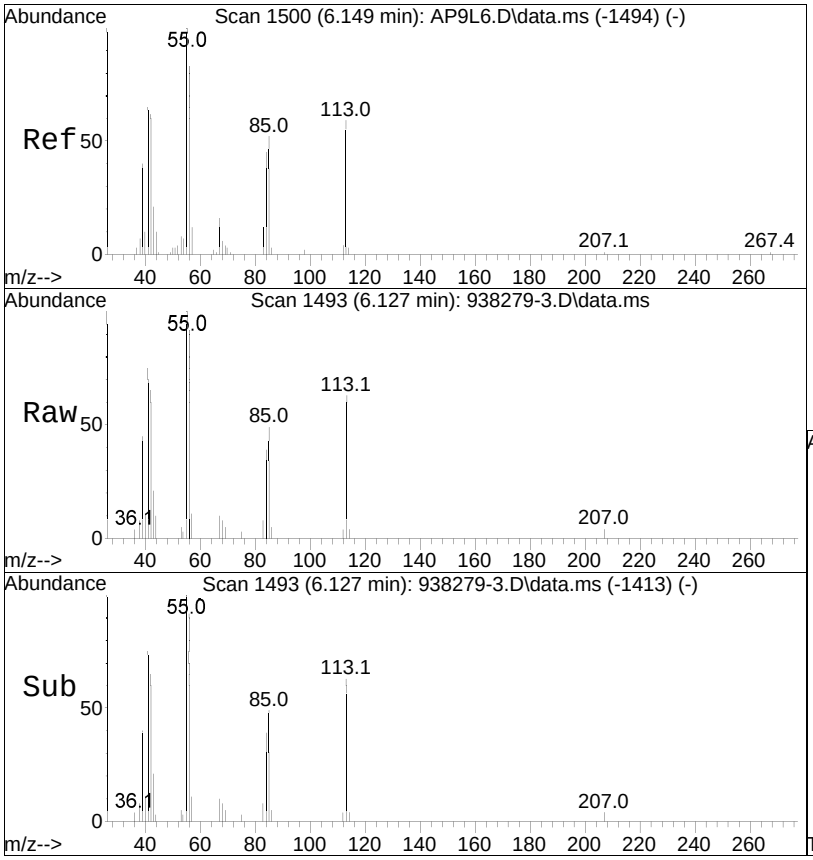


#53
2,6-Dinitrotoluene
Concen: 2.99 ug/ml
RT: 7.255 min Scan# 1856
Delta R.T. 0.000 min
Lab File: 938279-3.D
Acq: 24 Jun 2024 5:22 pm

Tgt Ion:165 Resp: 16017

Ion	Ratio	Lower	Upper
165	100		
89	55.7	54.2	81.2
63	54.1	64.2	96.2#

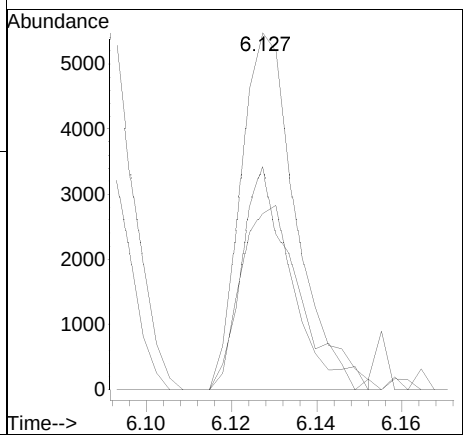


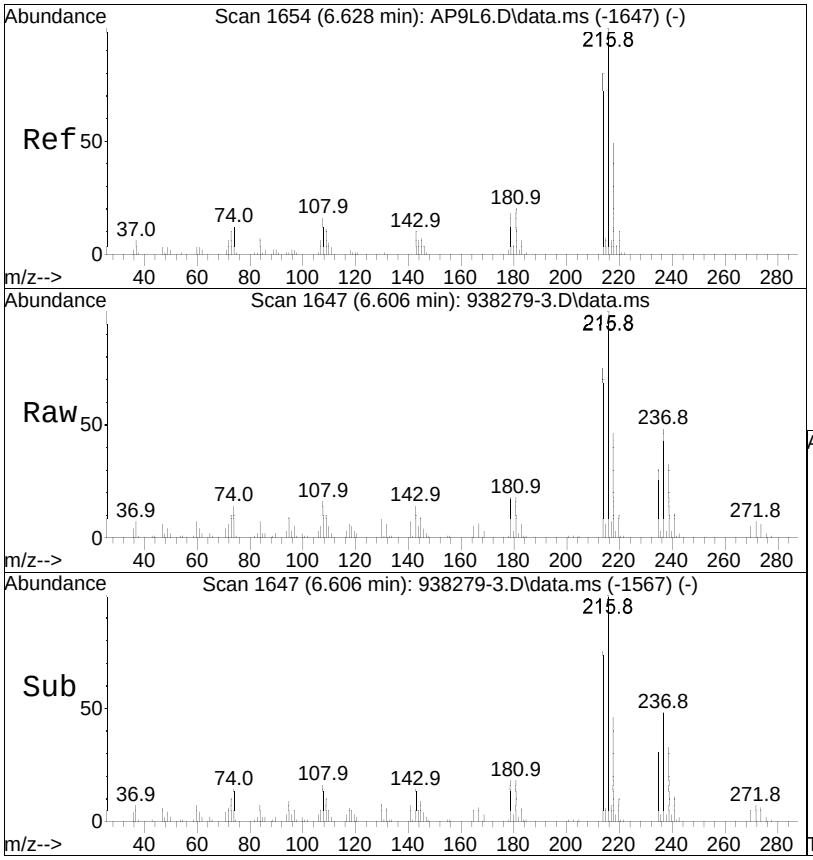


#60
Caprolactam
Concen: 1.42 ug/ml
RT: 6.127 min Scan# 1493
Delta R.T. -0.000 min
Lab File: 938279-3.D
Acq: 24 Jun 2024 5:22 pm

Tgt Ion: 55 Resp: 4991

Ion	Ratio	Lower	Upper
55	100		
85	52.3	19.8	29.6#
113	58.3	29.6	44.4#

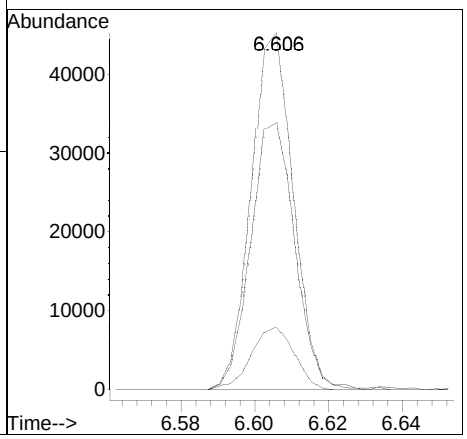


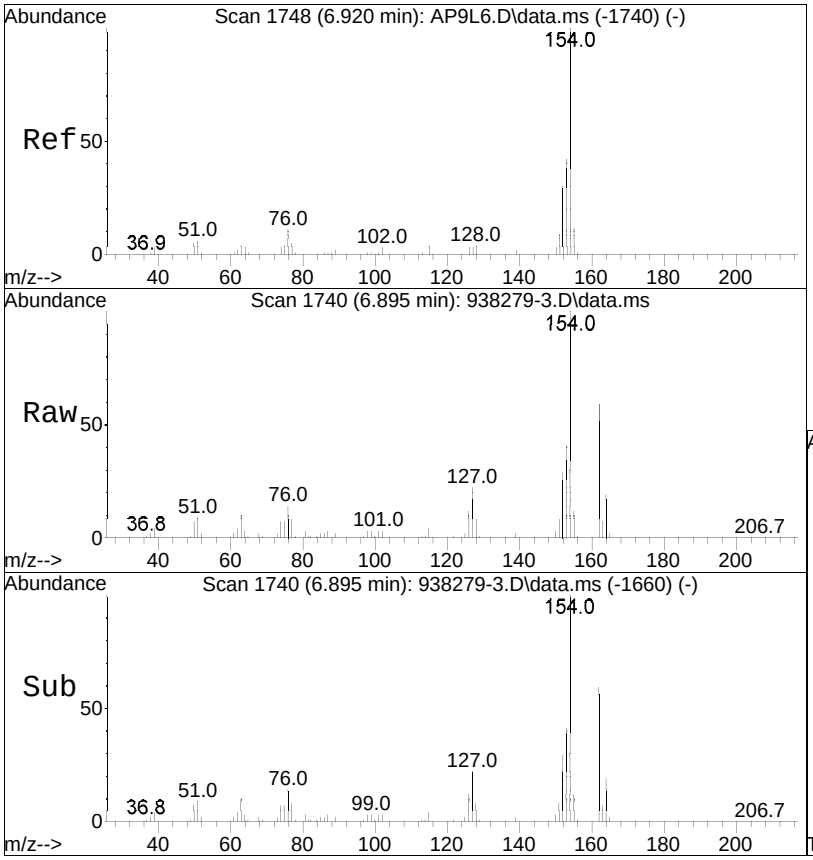


#61
1,2,4,5-Tetrachlorobenzene
Concen: 2.72 ug/ml
RT: 6.606 min Scan# 1647
Delta R.T. -0.000 min
Lab File: 938279-3.D
Acq: 24 Jun 2024 5:22 pm

Tgt Ion:216 Resp: 35784

Ion	Ratio	Lower	Upper
216	100		
214	78.3	63.7	95.5
179	18.1	19.0	28.6#

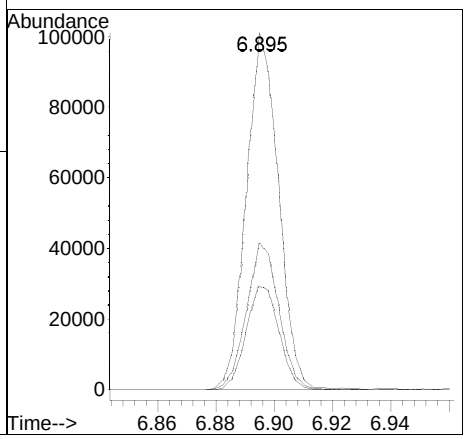


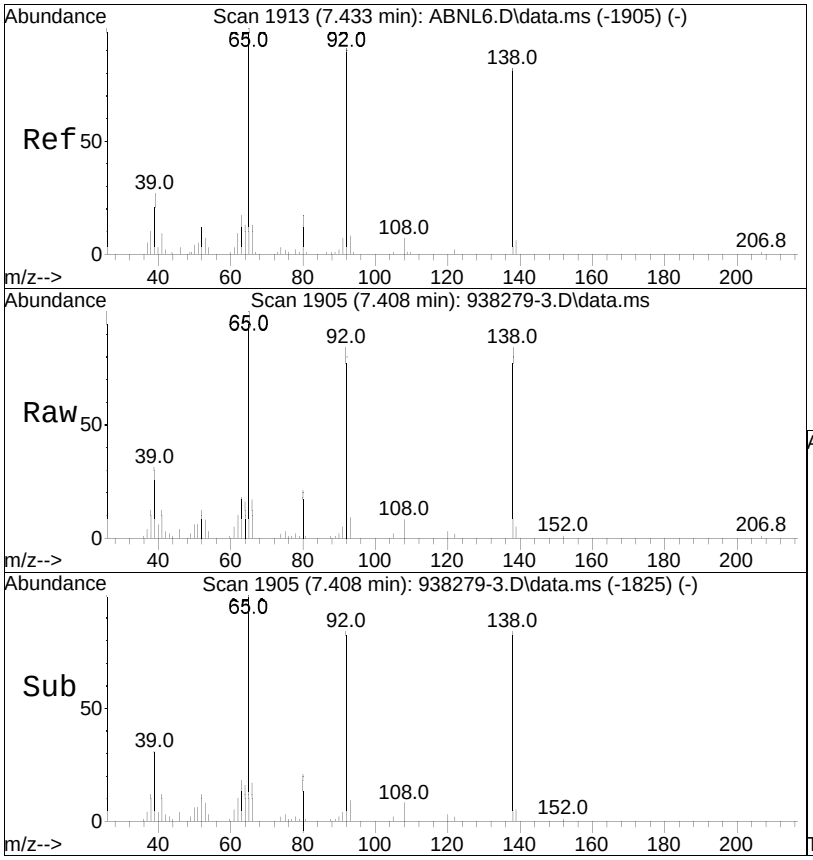


#62
Biphenyl
Concen: 2.74 ug/ml
RT: 6.895 min Scan# 1740
Delta R.T. -0.000 min
Lab File: 938279-3.D
Acq: 24 Jun 2024 5:22 pm

Tgt Ion:154 Resp: 76963

Ion	Ratio	Lower	Upper
154	100		
153	41.5	32.3	48.5
152	30.0	22.5	33.7

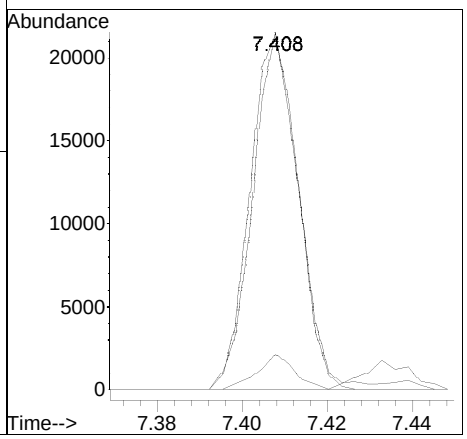


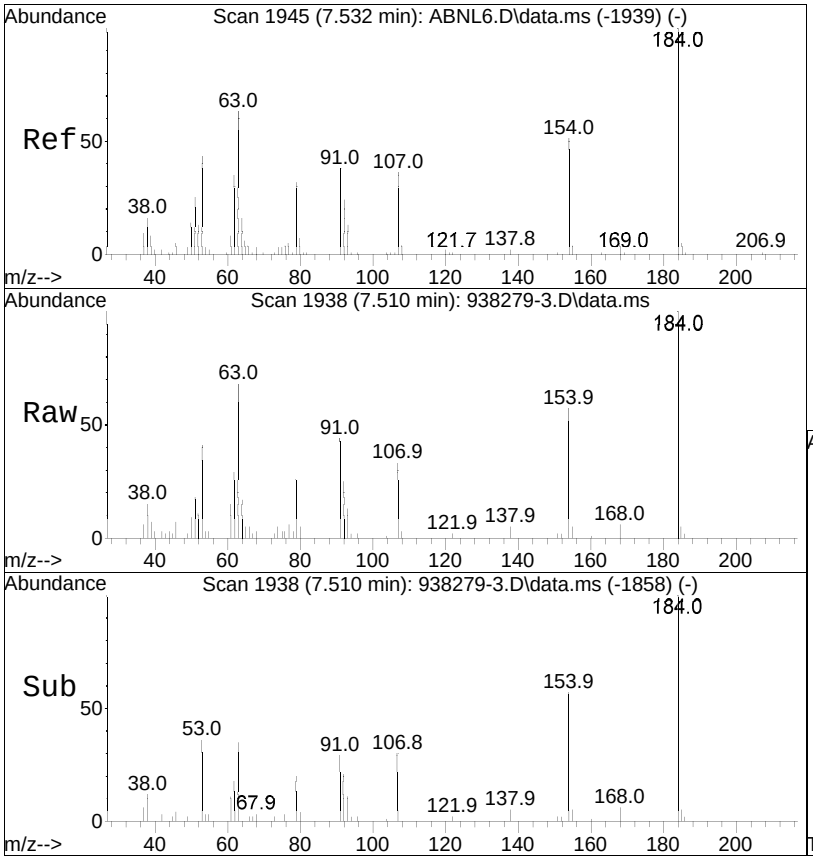


#64
3-Nitroaniline
Concen: 3.05 ug/ml
RT: 7.408 min Scan# 1905
Delta R.T. 0.000 min
Lab File: 938279-3.D
Acq: 24 Jun 2024 5:22 pm

Tgt Ion:138 Resp: 15640

Ion	Ratio	Lower	Upper
138	100		
92	108.2	93.4	140.2
108	8.2	9.5	14.3#

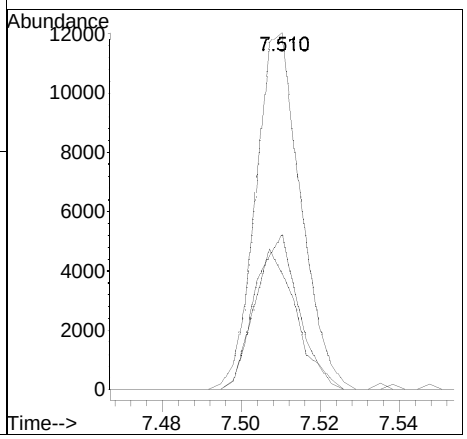


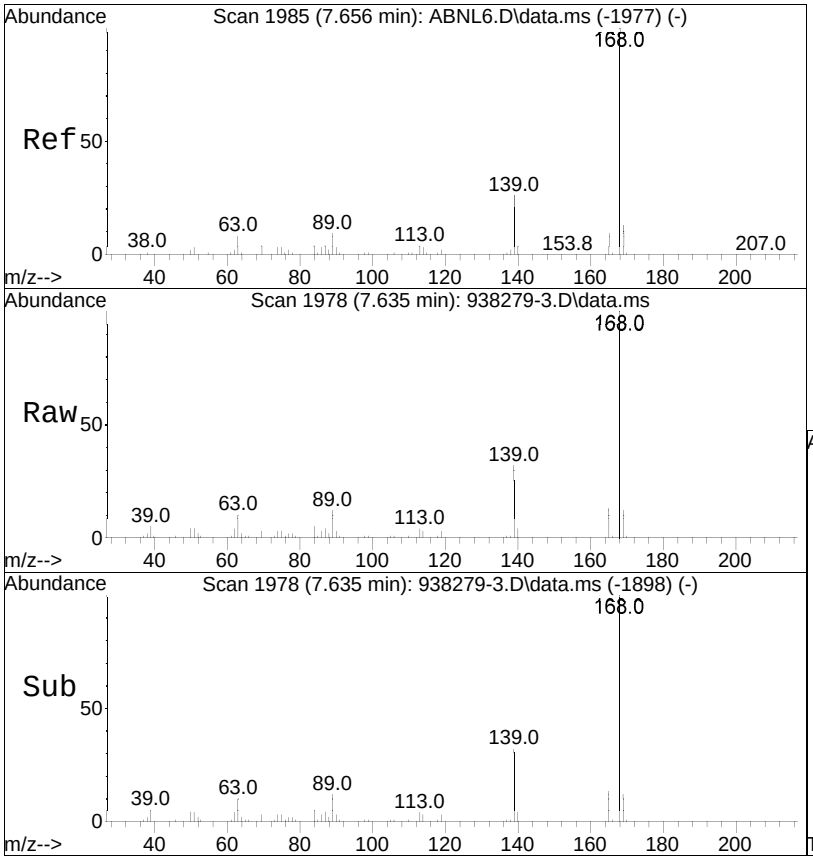


#66
2,4-Dinitrophenol
Concen: 2.71 ug/ml
RT: 7.510 min Scan# 1938
Delta R.T. 0.000 min
Lab File: 938279-3.D
Acq: 24 Jun 2024 5:22 pm

Tgt Ion:184 Resp: 9479

Ion	Ratio	Lower	Upper
184	100		
107	37.7	37.7	56.5#
91	42.0	46.3	69.5#

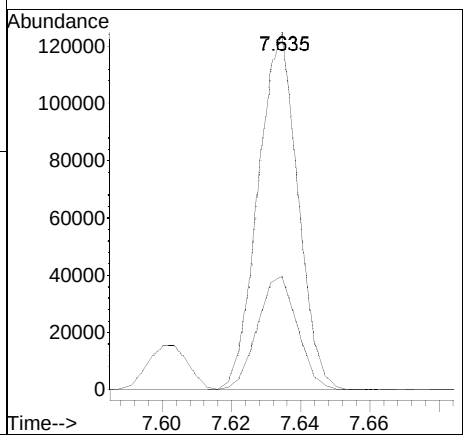


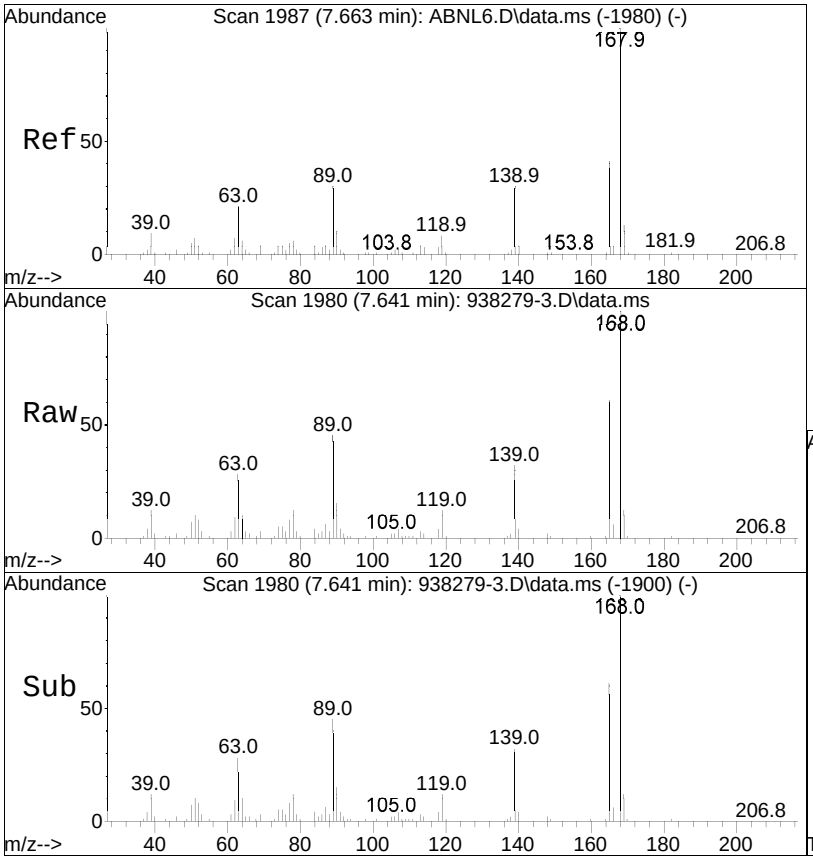


#67
Dibenzofuran
Concen: 3.00 ug/ml
RT: 7.635 min Scan# 1978
Delta R.T. 0.000 min
Lab File: 938279-3.D
Acq: 24 Jun 2024 5:22 pm

Tgt Ion:168 Resp: 98699

Ion	Ratio	Lower	Upper
168	100		
139	32.2	31.4	47.2

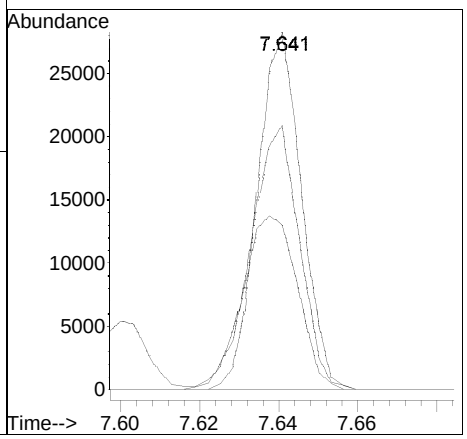


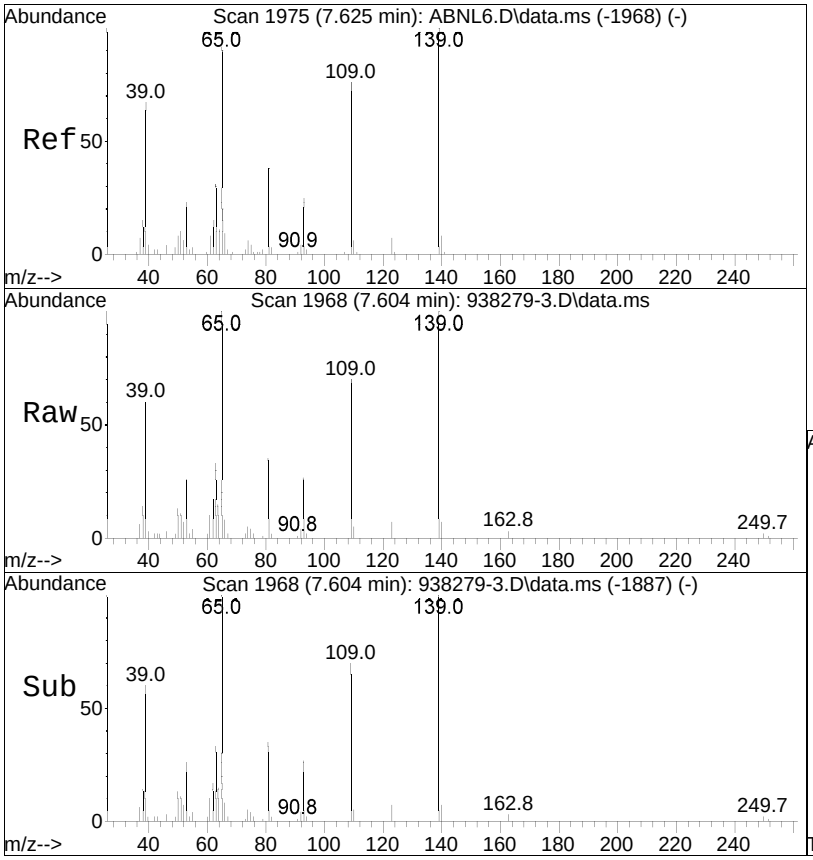


#68
2,4-Dinitrotoluene
Concen: 3.12 ug/ml
RT: 7.641 min Scan# 1980
Delta R.T. 0.000 min
Lab File: 938279-3.D
Acq: 24 Jun 2024 5:22 pm

Tgt Ion:165 Resp: 21766

Ion	Ratio	Lower	Upper
165	100		
89	82.1	72.0	108.0
63	61.2	52.7	79.1

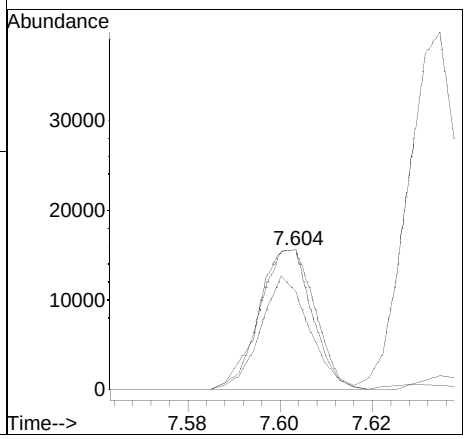


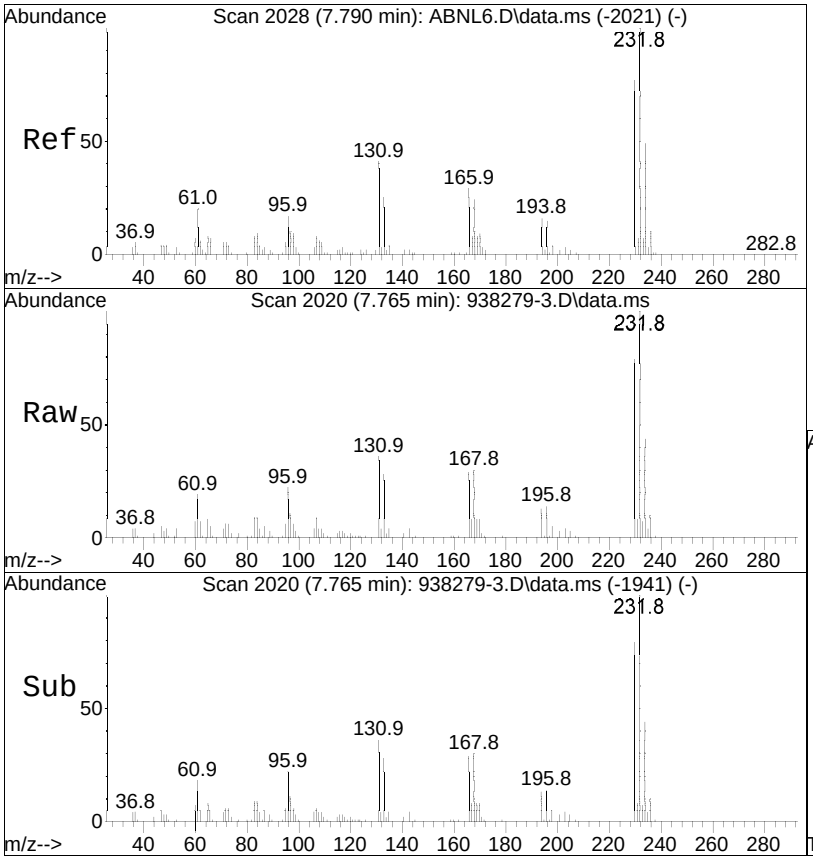


#69
4-Nitrophenol
Concen: 2.94 ug/ml
RT: 7.604 min Scan# 1968
Delta R.T. 0.003 min
Lab File: 938279-3.D
Acq: 24 Jun 2024 5:22 pm

Tgt Ion: 65 Resp: 12623

Ion	Ratio	Lower	Upper
65	100		
109	73.4	47.4	71.2#
139	102.2	76.6	115.0

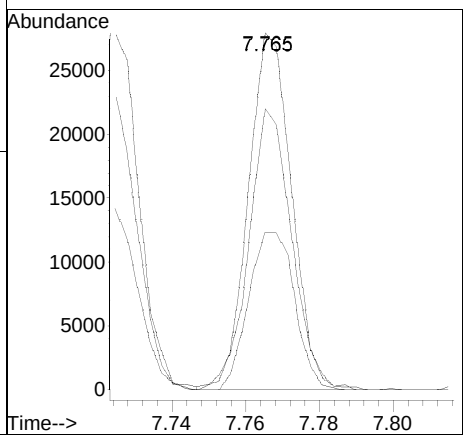


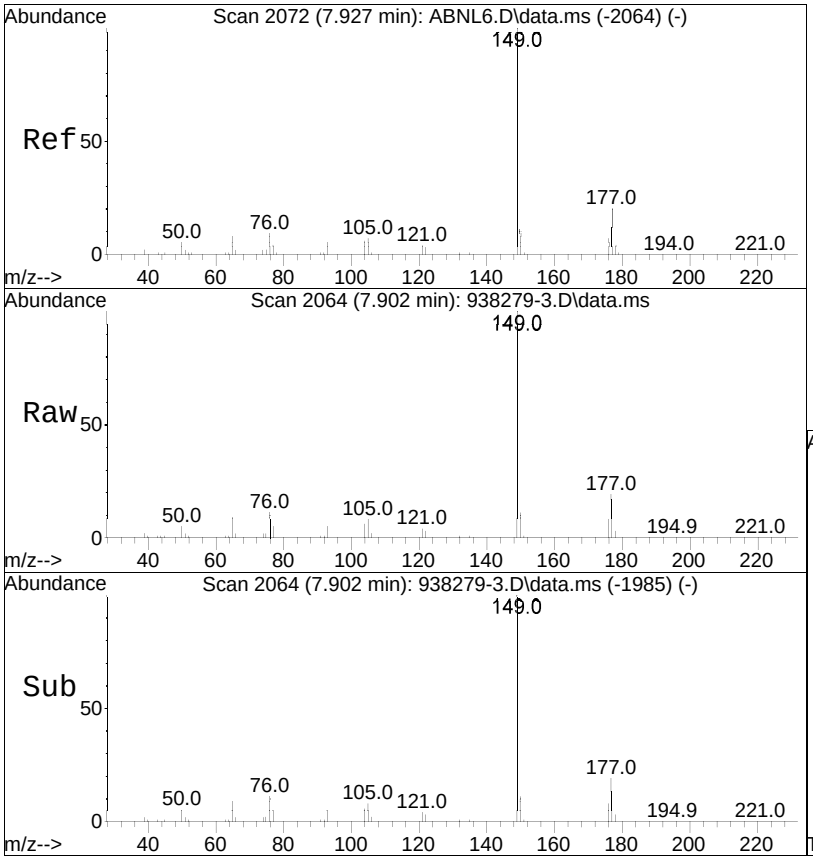


#71
2,3,4,6-Tetrachlorophenol
Concen: 3.29 ug/ml
RT: 7.765 min Scan# 2020
Delta R.T. -0.003 min
Lab File: 938279-3.D
Acq: 24 Jun 2024 5:22 pm

Tgt Ion:232 Resp: 22777

Ion	Ratio	Lower	Upper
232	100		
230	78.0	61.8	92.8
234	47.0	36.2	54.2

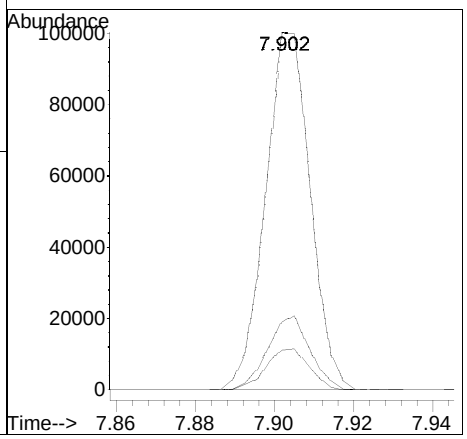


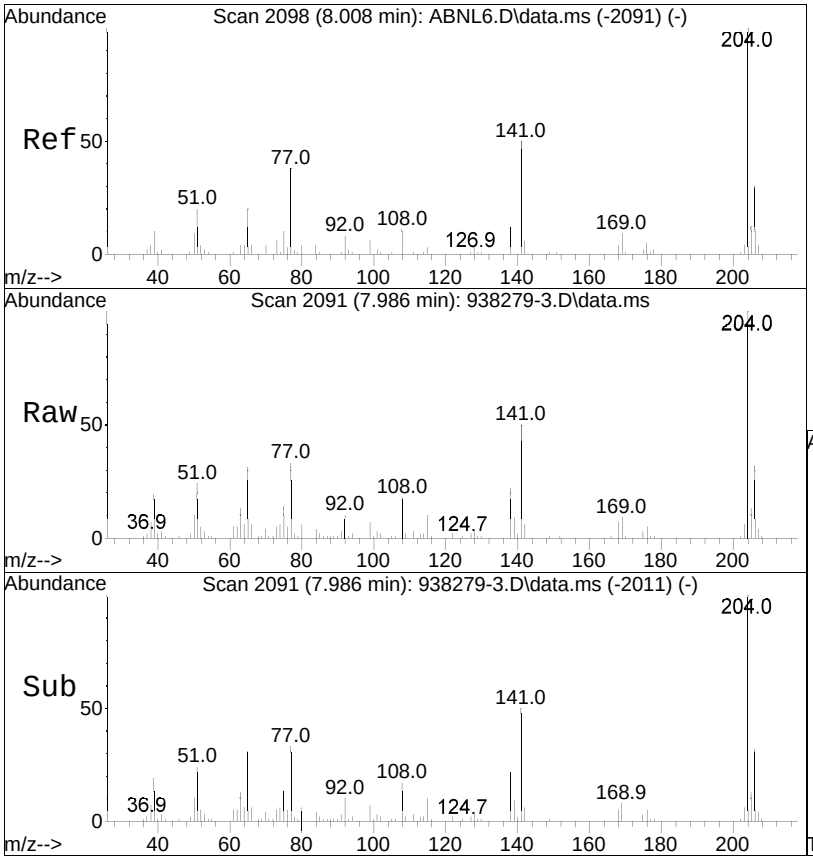


#72
Diethyl phthalate
Concen: 2.93 ug/ml
RT: 7.902 min Scan# 2064
Delta R.T. -0.003 min
Lab File: 938279-3.D
Acq: 24 Jun 2024 5:22 pm

Tgt Ion:149 Resp: 78205

Ion	Ratio	Lower	Upper
149	100		
177	19.7	16.1	24.1
150	11.3	9.4	14.2

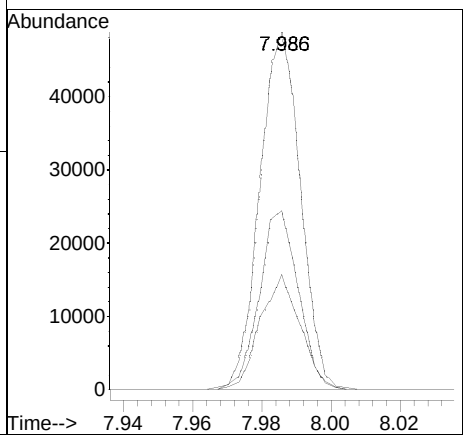


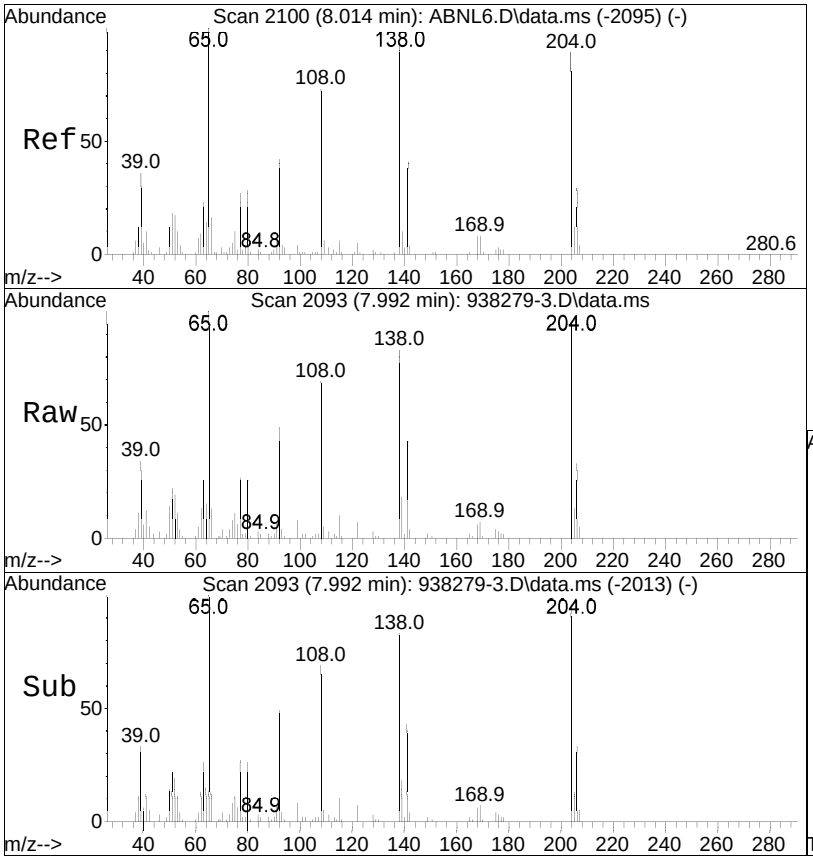


#74
4-Chlorophenyl phenyl ether
Concen: 3.10 ug/ml
RT: 7.986 min Scan# 2091
Delta R.T. 0.000 min
Lab File: 938279-3.D
Acq: 24 Jun 2024 5:22 pm

Tgt Ion:204 Resp: 39493

Ion	Ratio	Lower	Upper
204	100		
206	31.8	25.8	38.6
141	48.1	53.6	80.4#

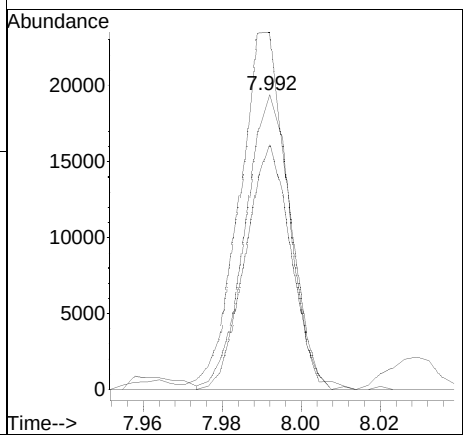


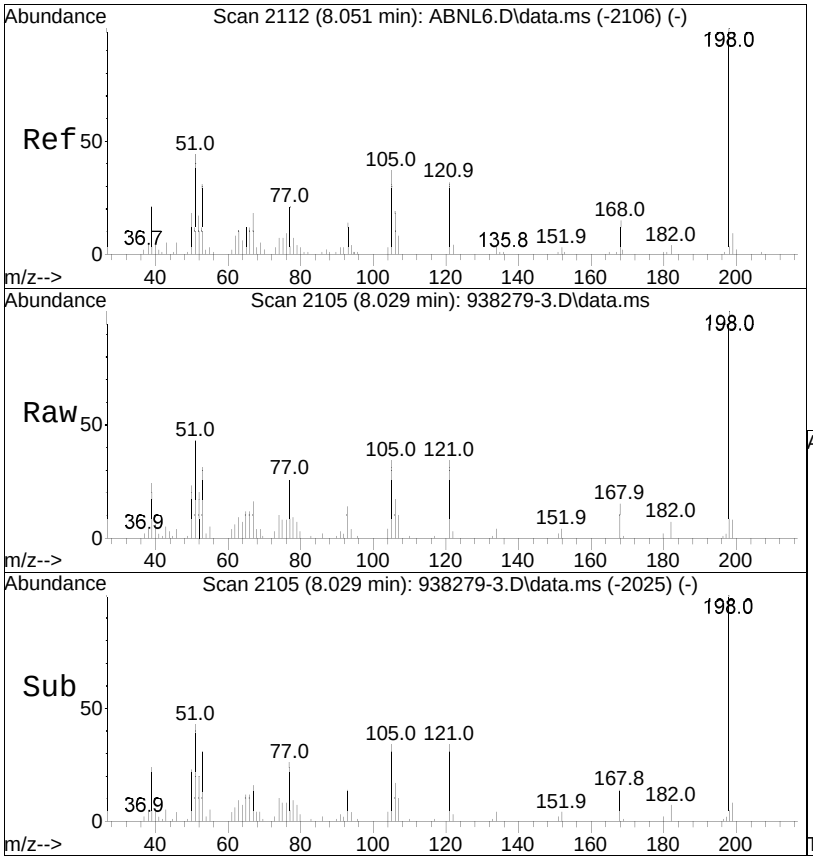


#75
4-Nitroaniline
Concen: 3.07 ug/ml
RT: 7.992 min Scan# 2093
Delta R.T. 0.000 min
Lab File: 938279-3.D
Acq: 24 Jun 2024 5:22 pm

Tgt Ion:138 Resp: 15487

Ion	Ratio	Lower	Upper
138	100		
108	82.9	52.1	78.1#
65	128.5	115.0	172.6

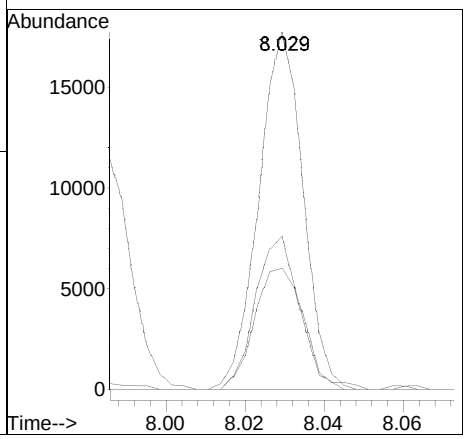


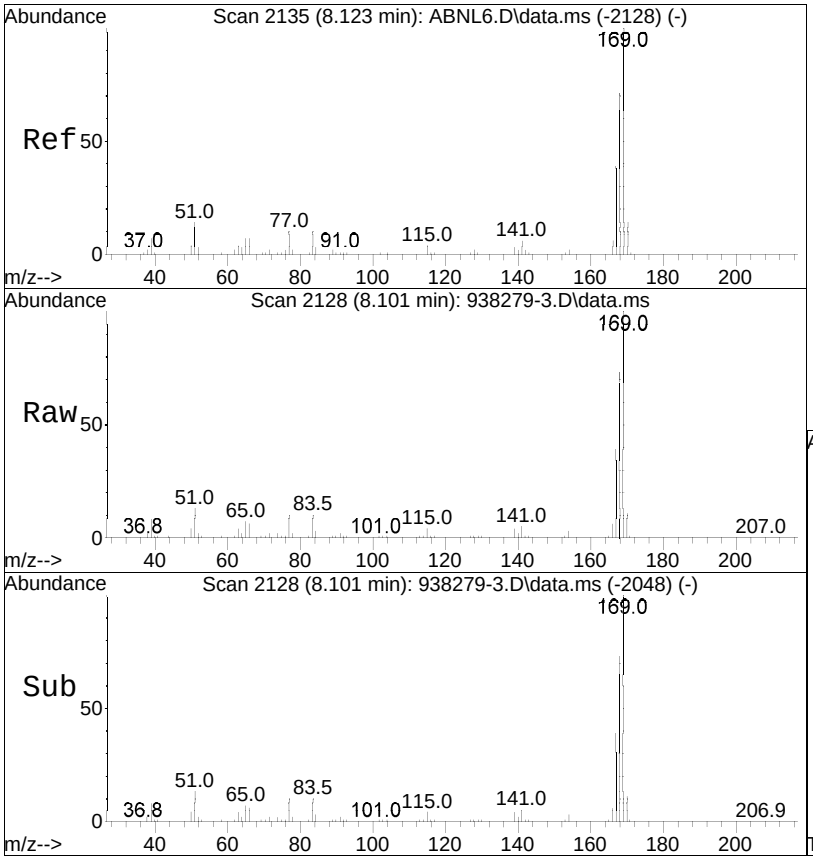


#76
4,6-Dinitro-o-cresol
Concen: 3.12 ug/ml
RT: 8.029 min Scan# 2105
Delta R.T. 0.000 min
Lab File: 938279-3.D
Acq: 24 Jun 2024 5:22 pm

Tgt Ion:198 Resp: 13765

Ion	Ratio	Lower	Upper
198	100		
51	43.7	76.0	114.0#
105	36.9	45.6	68.4#

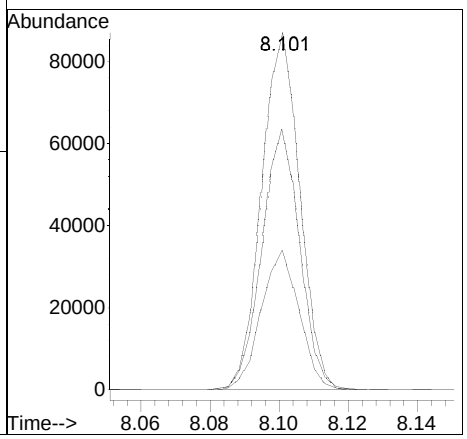


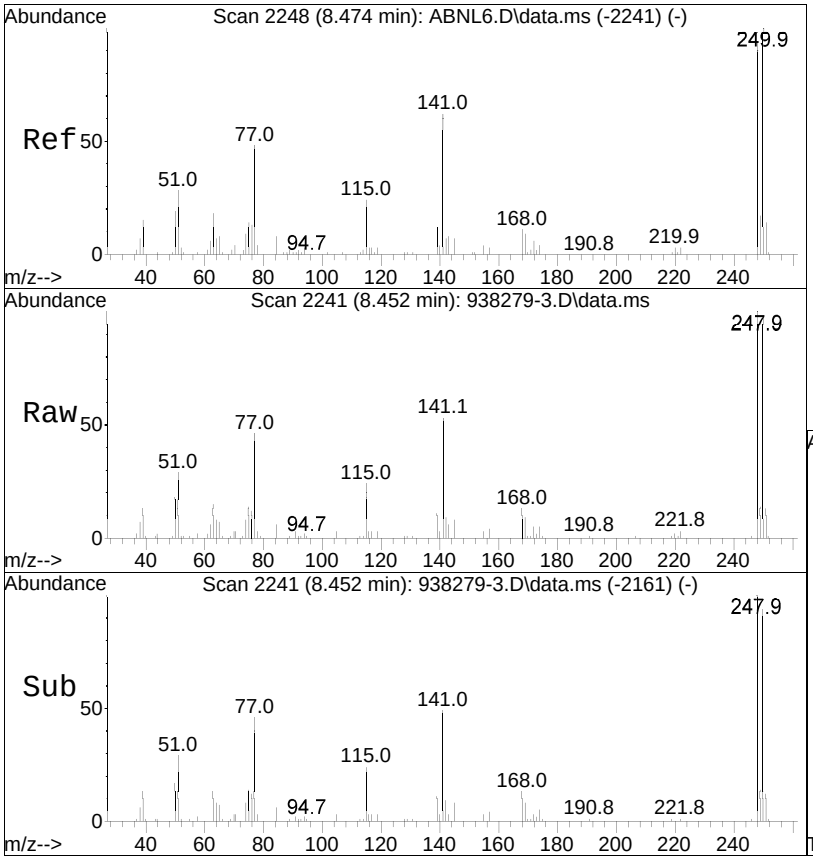


#77
NDPA/DPA
Concen: 3.10 ug/ml
RT: 8.101 min Scan# 2128
Delta R.T. 0.000 min
Lab File: 938279-3.D
Acq: 24 Jun 2024 5:22 pm

Tgt Ion:169 Resp: 66548

Ion	Ratio	Lower	Upper
169	100		
168	72.7	54.0	81.0
167	39.1	28.6	42.8

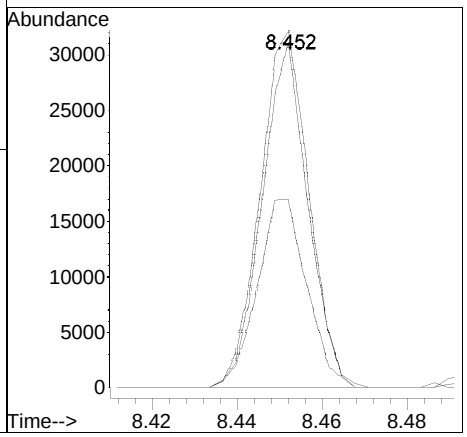


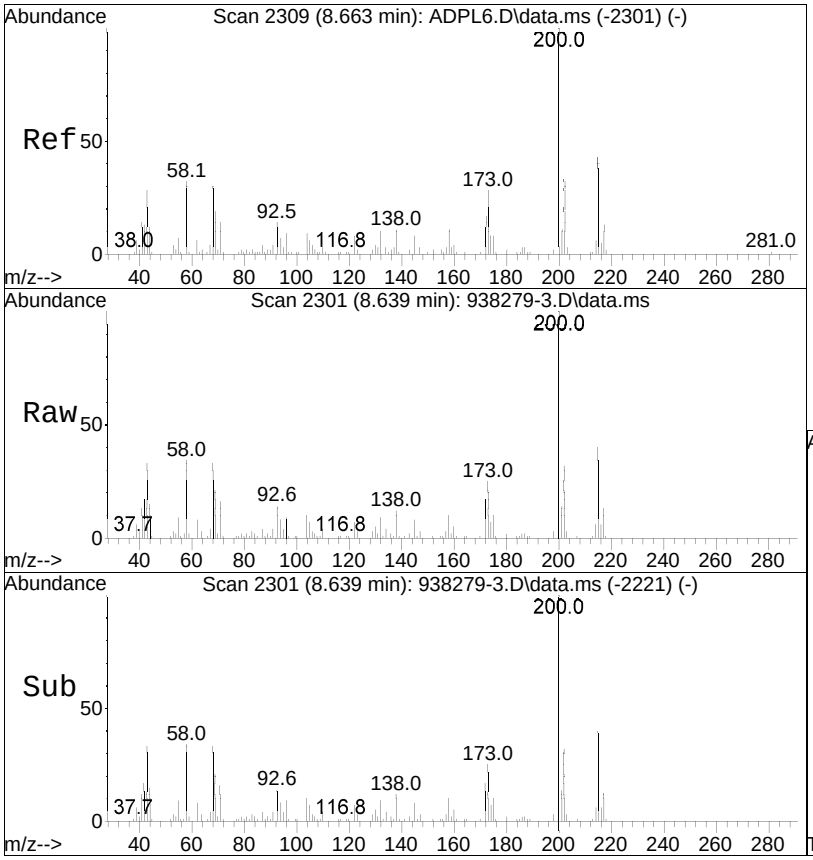


#80
4-Bromophenyl phenyl ether
Concen: 2.98 ug/ml
RT: 8.452 min Scan# 2241
Delta R.T. 0.000 min
Lab File: 938279-3.D
Acq: 24 Jun 2024 5:22 pm

Tgt Ion:248 Resp: 25284

Ion	Ratio	Lower	Upper
248	100		
141	53.8	76.6	114.8#
250	91.4	77.3	115.9

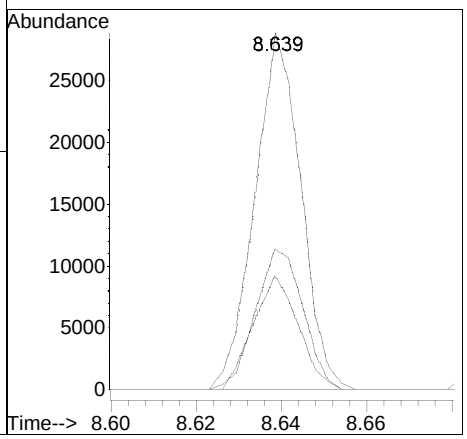


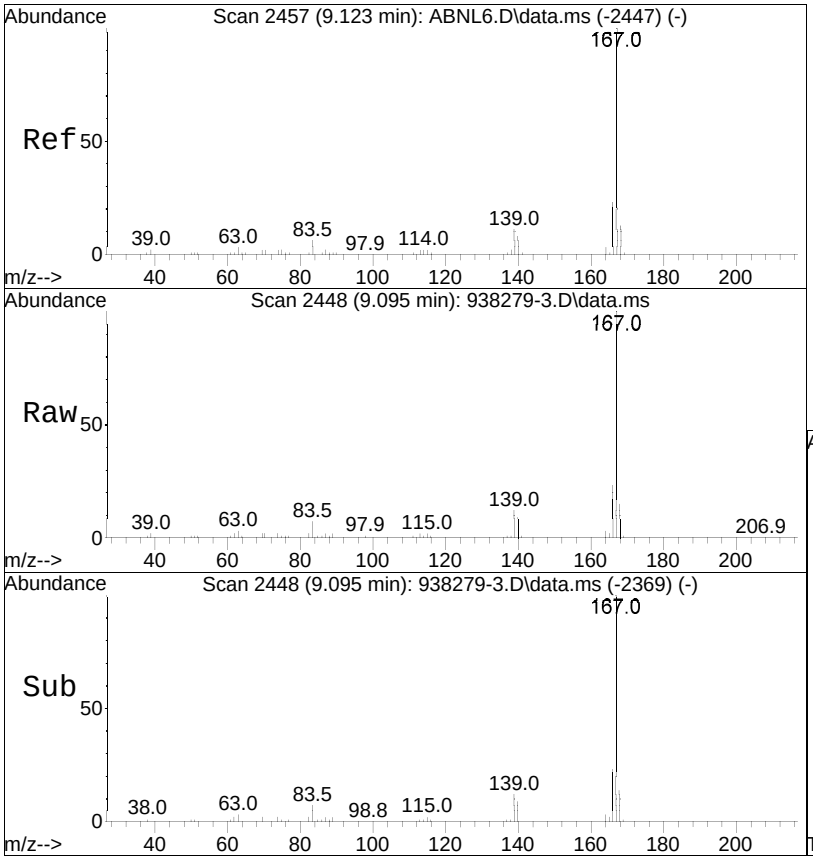


#87
Atrazine
Concen: 2.77 ug/ml
RT: 8.639 min Scan# 2301
Delta R.T. -0.000 min
Lab File: 938279-3.D
Acq: 24 Jun 2024 5:22 pm

Tgt Ion:200 Resp: 21550

Ion	Ratio	Lower	Upper
200	100		
202	31.4	25.8	38.6
215	40.8	40.2	60.4

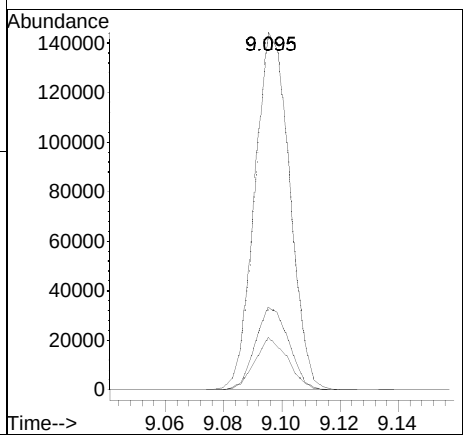


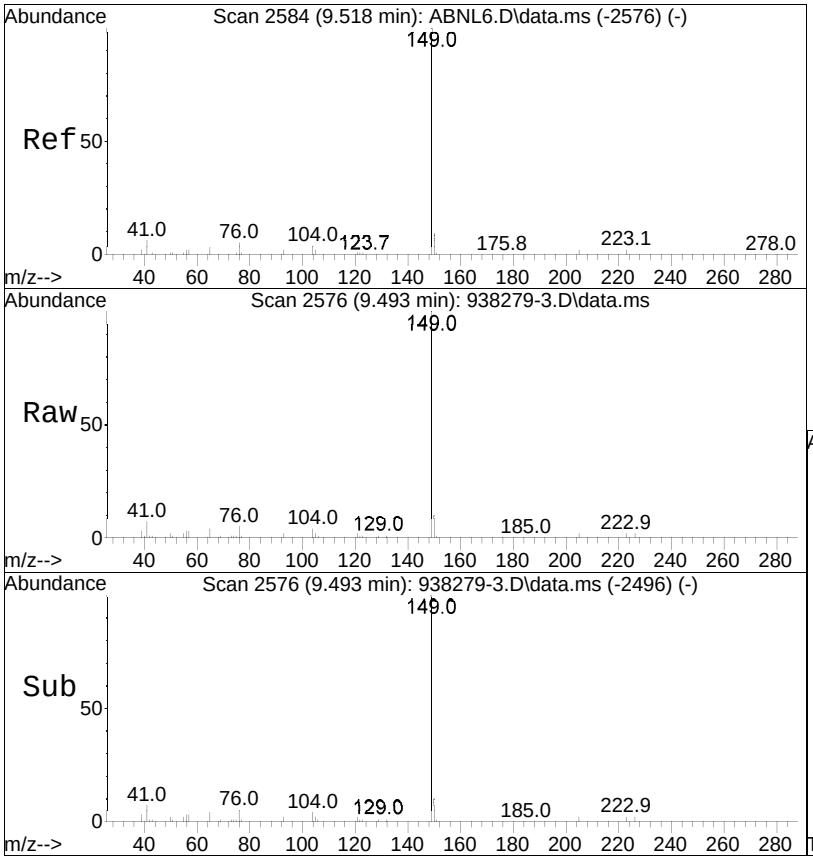


#91
Carbazole
Concen: 3.14 ug/ml
RT: 9.095 min Scan# 2448
Delta R.T. -0.003 min
Lab File: 938279-3.D
Acq: 24 Jun 2024 5:22 pm

Tgt Ion:167 Resp: 119195

Ion	Ratio	Lower	Upper
167	100		
168	14.0	10.6	15.8
166	22.3	17.4	26.0

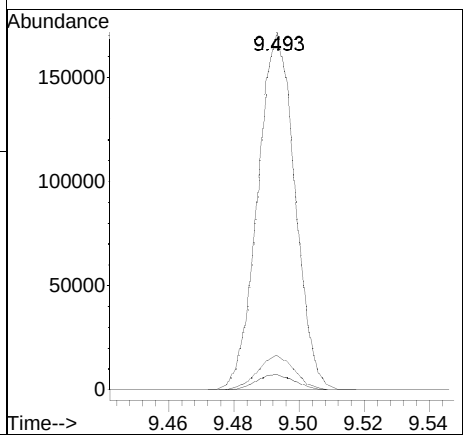


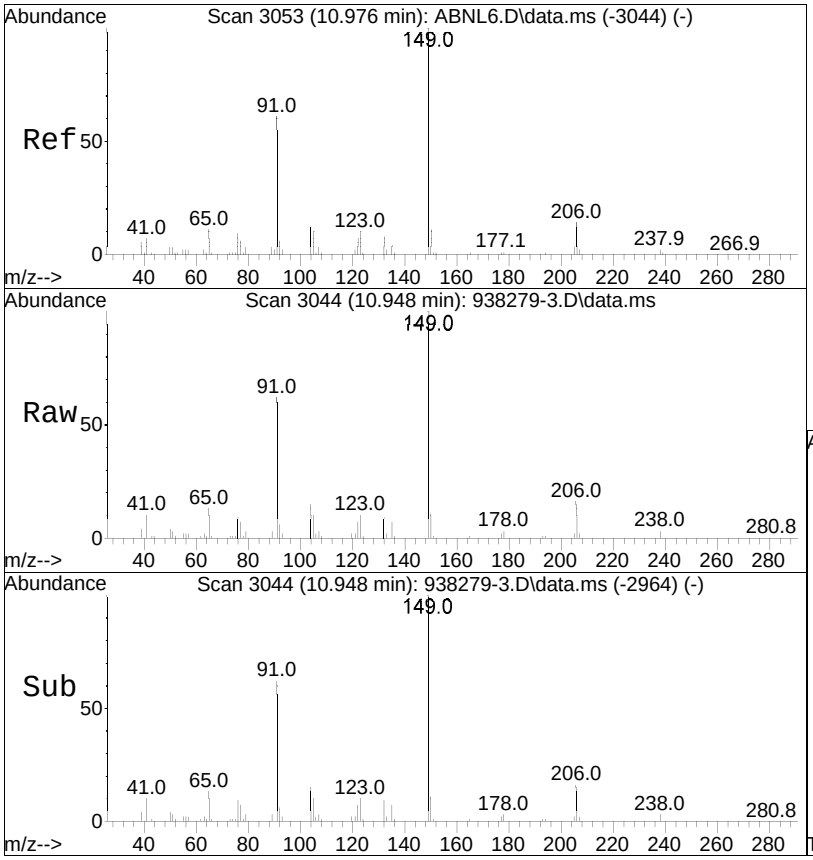


#92
Di-n-butylphthalate
Concen: 3.09 ug/ml
RT: 9.493 min Scan# 2576
Delta R.T. 0.000 min
Lab File: 938279-3.D
Acq: 24 Jun 2024 5:22 pm

Tgt Ion:149 Resp: 134495

Ion	Ratio	Lower	Upper
149	100		
150	9.5	7.0	10.6
104	4.4	4.5	6.7#

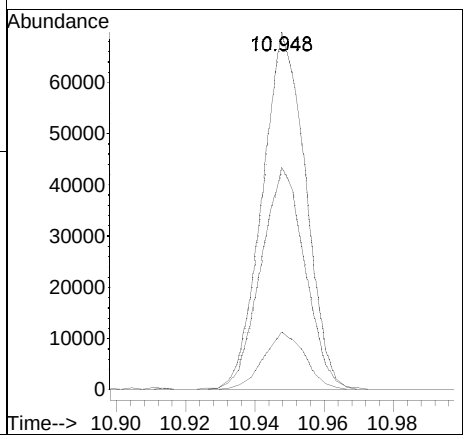


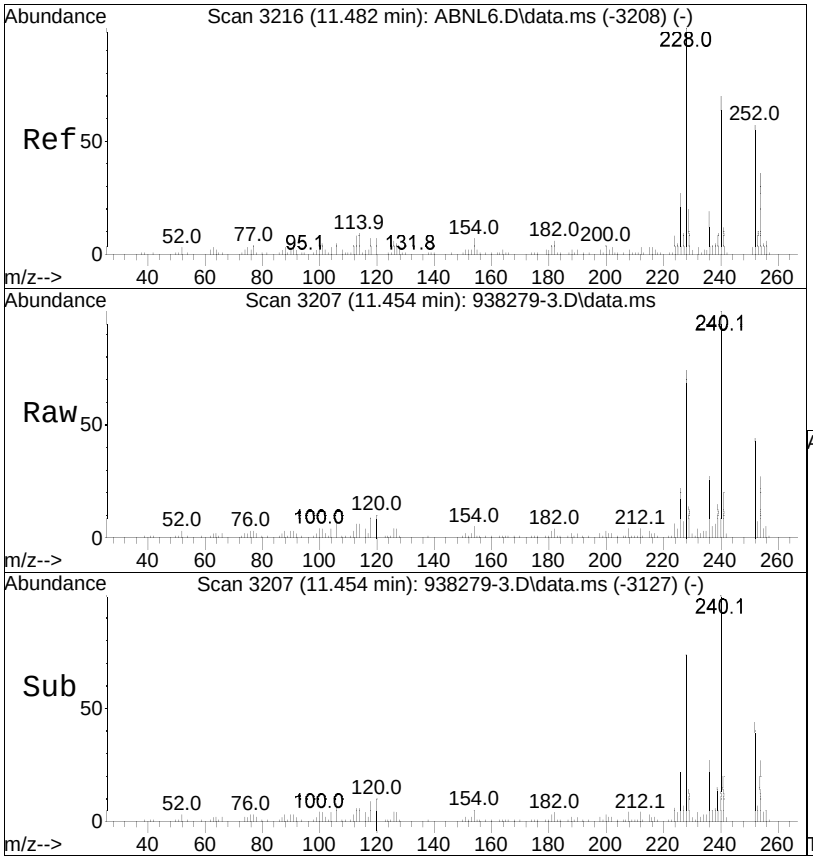


#97
Butyl benzyl phthalate
Concen: 3.08 ug/ml
RT: 10.948 min Scan# 3044
Delta R.T. 0.000 min
Lab File: 938279-3.D
Acq: 24 Jun 2024 5:22 pm

Tgt Ion:149 Resp: 60315

Ion	Ratio	Lower	Upper
149	100		
91	63.4	63.3	94.9
206	15.4	13.9	20.9

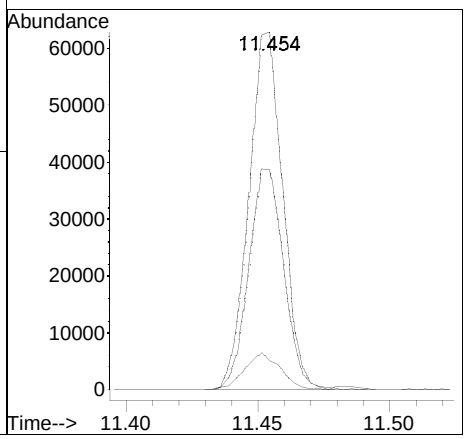


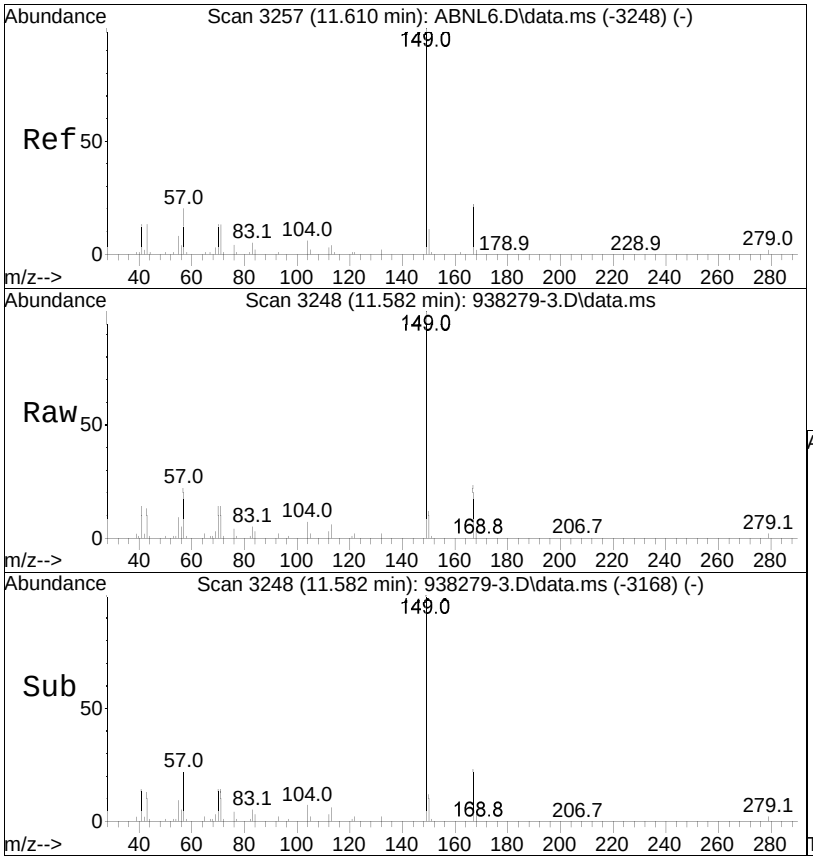


#106
3,3'-Dichlorobenzidine
Concen: 2.98 ug/ml
RT: 11.454 min Scan# 3207
Delta R.T. 0.000 min
Lab File: 938279-3.D
Acq: 24 Jun 2024 5:22 pm

Tgt Ion:252 Resp: 55844

Ion	Ratio	Lower	Upper
252	100		
126	11.1	14.5	21.7#
254	63.6	51.2	76.8

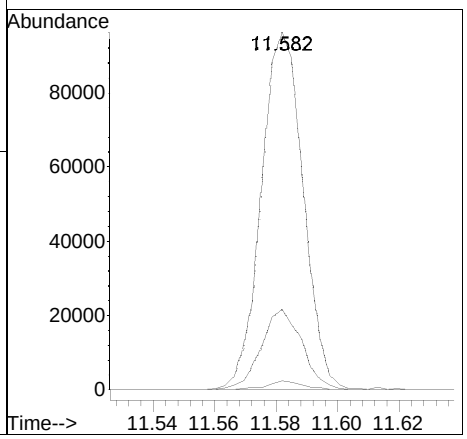


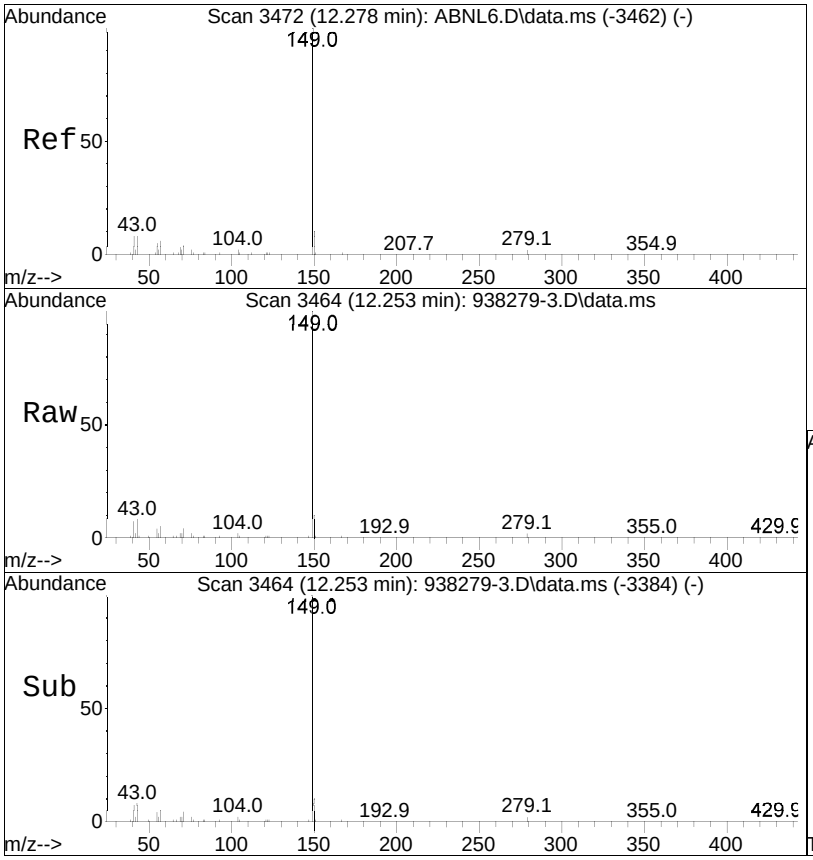


#108
Bis(2-ethylhexyl)phthalate
Concen: 3.17 ug/ml
RT: 11.582 min Scan# 3248
Delta R.T. 0.000 min
Lab File: 938279-3.D
Acq: 24 Jun 2024 5:22 pm

Tgt Ion:149 Resp: 90107

Ion	Ratio	Lower	Upper
149	100		
167	21.8	22.1	33.1#
279	1.9	3.0	4.4#

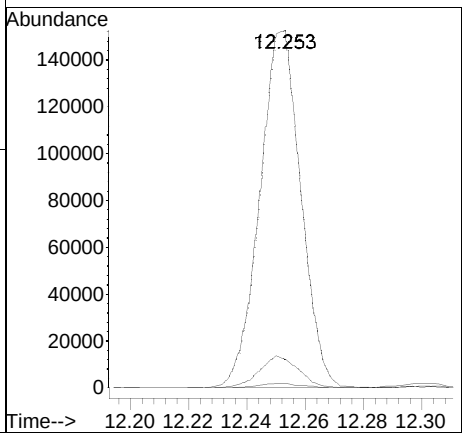




#109
Di-n-octylphthalate
Concen: 3.11 ug/ml
RT: 12.253 min Scan# 3464
Delta R.T. 0.000 min
Lab File: 938279-3.D
Acq: 24 Jun 2024 5:22 pm

Tgt Ion:149 Resp: 147443

Ion	Ratio	Lower	Upper
149	100		
43	8.6	18.8	28.2#
167	1.2	1.3	1.9#



Manual Integration Report

Data Path	: I:\8270\Dakota\240624RVT\	QMethod	: FS240618RVT_14D_Dakota.m
Data File	: 938279-3.D	Operator	: Dakota:jg
Date Inj'd	: 6/24/2024 5:22 pm	Instrument	: Dakota
Sample	: WG1938279-3,32,,HNY	Quant Date	: 6/25/2024 8:13 pm

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\240625RVT\
Data File : 938723-3.D
Acq On : 25 Jun 2024 11:03 am
Operator : Dakota:ljg
Sample : WG1938723-3,32,,gmr
Misc : WG1938967,WG1938723,ical21225
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 26 08:54:24 2024
Quant Method : I:\8270\dakota\240625RVT\FS240618RVT_14D_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Jun 25 11:23:13 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\dakota\240625RVT\ABN0625.D
: 2 - I:\8270\dakota\240625RVT\ADP0625.D
: 3 - I:\8270\dakota\240625RVT\AP90625.D
Sub List : 8270TCL_REV2 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) IS1_1,4-Dichlorobenzen...	4.486	152	29829	4.000	ug/ml		0.00
Standard Area 1 = 26257			Recovery = 113.60%				
27) IS2_1,4-Dichlorobenzen...	4.486	152	29829	4.000	ug/ml		0.00
Standard Area 3 = 27010			Recovery = 110.44%				
32) IS3_1,4-Dichlorobenzen...	4.486	152	29829	4.000	ug/ml		0.00
Standard Area 2 = 29091			Recovery = 102.54%				
35) IS1_Naphthalene-d8	5.720	136	103043	4.000	ug/ml		0.00
Standard Area 1 = 95039			Recovery = 108.42%				
55) IS2_Naphthalene-d8	5.720	136	103043	4.000	ug/ml		0.00
Standard Area 3 = 101426			Recovery = 101.59%				
63) IS1_Acenaphthene-d10	7.417	164	70177	4.000	ug/ml		0.00
Standard Area 1 = 67008			Recovery = 104.73%				
83) IS2_Acenaphthene-d10	7.417	164	70177	4.000	ug/ml		0.00
Standard Area 3 = 69385			Recovery = 101.14%				
86) IS3_Acenaphthene-d10	7.417	164	70177	4.000	ug/ml		0.00
Standard Area 2 = 69313			Recovery = 101.25%				
88) IS1_Phenanthrene-d10	8.841	188	170115	4.000	ug/ml		0.00
Standard Area 1 = 156879			Recovery = 108.44%				
100) IS3_Phenanthrene-d10	8.841	188	170115	4.000	ug/ml		0.00
Standard Area 2 = 162640			Recovery = 104.60%				
104) IS1_Chrysene-d12	11.439	240	177836	4.000	ug/ml	#	0.00
Standard Area 1 = 168902			Recovery = 105.29%				
113) IS1_Perylene-d12	12.881	264	202493	4.000	ug/ml		0.00
Standard Area 1 = 203294			Recovery = 99.61%				
System Monitoring Compounds							
4) 2-Fluorophenol	3.215	112	19809	2.584	ug/ml		0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 129.20%#				
7) Phenol-d6	4.175	99	20607	2.130	ug/ml		0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 106.50%				
19) Nitrobenzene-d5	5.030	82	15499	1.535	ug/ml		0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 153.50%#				
46) 2-Fluorobiphenyl	6.792	172	40478	1.567	ug/ml		0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 156.70%#				
79) 2,4,6-Tribromophenol	8.179	330	15699	3.423	ug/ml		0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 171.15%#				

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\240625RVT\
Data File : 938723-3.D
Acq On : 25 Jun 2024 11:03 am
Operator : Dakota:ljg
Sample : WG1938723-3,32,,gmr
Misc : WG1938967,WG1938723,ical21225
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 26 08:54:24 2024
Quant Method : I:\8270\dakota\240625RVT\FS240618RVT_14D_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Jun 25 11:23:13 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\dakota\240625RVT\ABN0625.D
: 2 - I:\8270\dakota\240625RVT\ADP0625.D
: 3 - I:\8270\dakota\240625RVT\AP90625.D
Sub List : 8270TCL_REV2 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
96) 4-Terphenyl-d14	10.410	244	68977	1.559	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 155.90%#			
Target Compounds						Qvalue
6) 2-Chlorophenol	4.281	128	26672	3.109	ug/ml#	88
8) Phenol	4.188	94	23378M6	2.074	ug/ml	
9) Bis(2-chloroethyl)ether	4.256	93	21384	2.893	ug/ml	97
14) Bis(2-chloroisopropyl)...	4.788	45	32223	2.923	ug/ml#	40
15) 2-Methylphenol	4.778	108	23238	3.000	ug/ml	99
17) n-Nitrosodi-n-propylamine	4.915	70	21176	3.113	ug/ml#	88
18) 3-Methylphenol/4-Methy...	4.934	108	24683	3.022	ug/ml	99
20) Nitrobenzene	5.049	77	28849	2.980	ug/ml	96
21) Isophorone	5.291	82	51555	3.039	ug/ml#	93
22) 2-Nitrophenol	5.360	139	14734	3.069	ug/ml	92
23) 2,4-Dimethylphenol	5.447	107	22072	2.699	ug/ml	98
24) Bis(2-chloroethoxy)met...	5.530	93	31156	2.987	ug/ml#	95
25) 2,4-Dichlorophenol	5.602	162	29967	3.248	ug/ml#	93
28) Benzaldehyde	4.051	105	21688	2.807	ug/ml	100
29) Acetophenone	4.890	105	37991	2.876	ug/ml#	77
38) 4-Chloroaniline	5.813	65	9898	3.027	ug/ml	93
40) p-Chloro-m-cresol	6.314	107	25974	3.466	ug/ml	95
43) Hexachlorocyclopentadiene	6.590	237	18798	2.515	ug/ml	99
44) 2,4,6-Trichlorophenol	6.708	196	25036	3.283	ug/ml	98
45) 2,4,5-Trichlorophenol	6.736	196	28792	3.532	ug/ml	98
48) 2-Nitroaniline	6.994	138	18758	3.290	ug/ml	85
51) Dimethyl phthalate	7.199	163	84461	3.176	ug/ml#	97
53) 2,6-Dinitrotoluene	7.240	165	16558	3.153	ug/ml#	81
60) Caprolactam	6.109	55	5574	1.618	ug/ml#	68
61) 1,2,4,5-Tetrachloroben...	6.587	216	38282	2.975	ug/ml#	96
62) Biphenyl	6.879	154	80873	2.937	ug/ml	97
64) 3-Nitroaniline	7.392	138	16633	3.194	ug/ml#	93
66) 2,4-Dinitrophenol	7.495	184	10527	2.930	ug/ml#	85
67) Dibenzofuran	7.616	168	104327	3.125	ug/ml	88
68) 2,4-Dinitrotoluene	7.625	165	24099	3.398	ug/ml	95
69) 4-Nitrophenol	7.585	65	12887	2.954	ug/ml#	89
71) 2,3,4,6-Tetrachlorophenol	7.750	232	24230	3.446	ug/ml	97
72) Diethyl phthalate	7.886	149	84865	3.135	ug/ml	99

Data Path : I:\8270\Dakota\240625RVT\
Data File : 938723-3.D
Acq On : 25 Jun 2024 11:03 am
Operator : Dakota:ljg
Sample : WG1938723-3,32,,gmr
Misc : WG1938967,WG1938723,ical21225
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 26 08:54:24 2024
Quant Method : I:\8270\dakota\240625RVT\FS240618RVT_14D_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Jun 25 11:23:13 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\dakota\240625RVT\ABN0625.D
: 2 - I:\8270\dakota\240625RVT\ADP0625.D
: 3 - I:\8270\dakota\240625RVT\AP90625.D
Sub List : 8270TCL_REV2 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
74) 4-Chlorophenyl phenyl ...	7.967	204	39930	3.085	ug/ml#	85
75) 4-Nitroaniline	7.973	138	15657	3.053	ug/ml#	80
76) 4,6-Dinitro-o-cresol	8.014	198	14636	3.272	ug/ml#	57
77) NDPA/DPA	8.085	169	69873	3.204	ug/ml	91
80) 4-Bromophenyl phenyl e...	8.433	248	26910	3.126	ug/ml#	80
87) Atrazine	8.623	200	23749	3.008	ug/ml	91
91) Carbazole	9.080	167	133684	3.182	ug/ml	98
92) Di-n-butylphthalate	9.478	149	154787	3.208	ug/ml	99
97) Butyl benzyl phthalate	10.929	149	70716	3.262	ug/ml	85
106) 3,3'-Dichlorobenzidine	11.436	252	60418	2.745	ug/ml#	96
108) Bis(2-ethylhexyl)phtha...	11.563	149	108857	3.263	ug/ml#	88
109) Di-n-octylphthalate	12.232	149	180899	3.253	ug/ml#	72

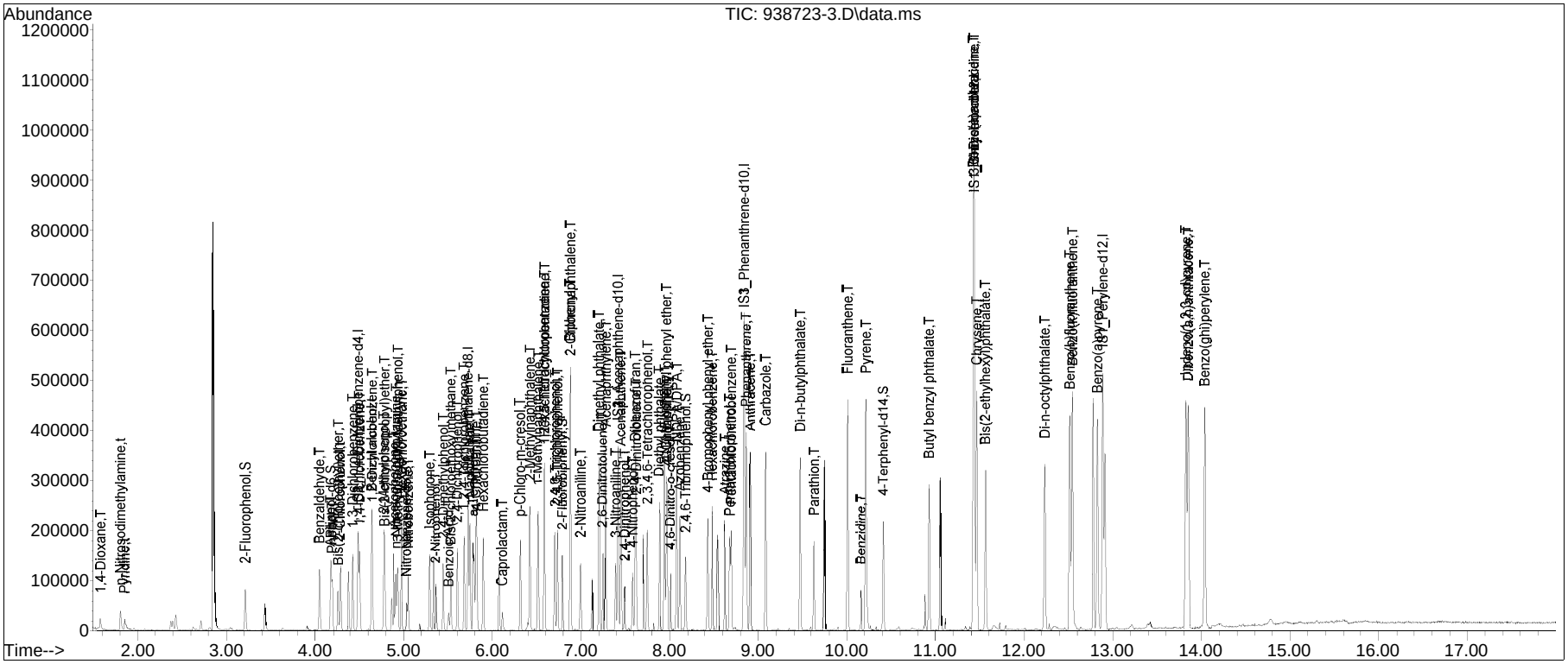
(#) = qualifier out of range (m) = manual integration (+) = signals summed

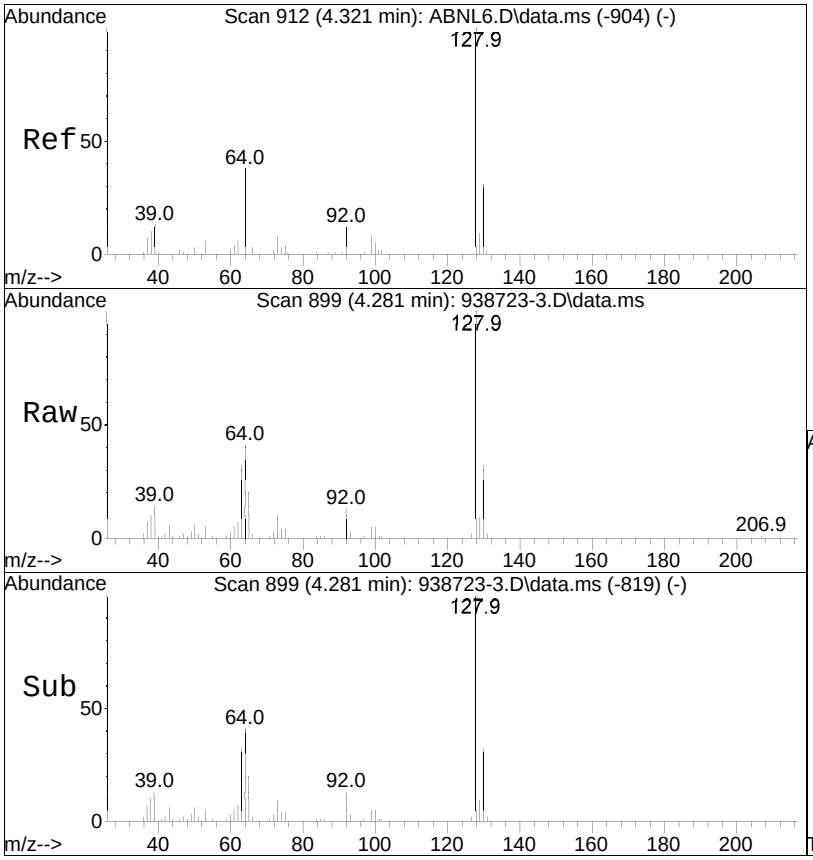
Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\240625RVT\
Data File : 938723-3.D
Acq On : 25 Jun 2024 11:03 am
Operator : Dakota:ljg
Sample : WG1938723-3,32,,gmr
Misc : WG1938967,WG1938723,ical21225
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 26 08:54:24 2024
Quant Method : I:\8270\dakota\240625RVT\FS240618RVT_14D_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Jun 25 11:23:13 2024
Response via : Initial Calibration

Sub List : 8270TCL_REV2 - TCL/CT/MA5RVT\AP90625.D•

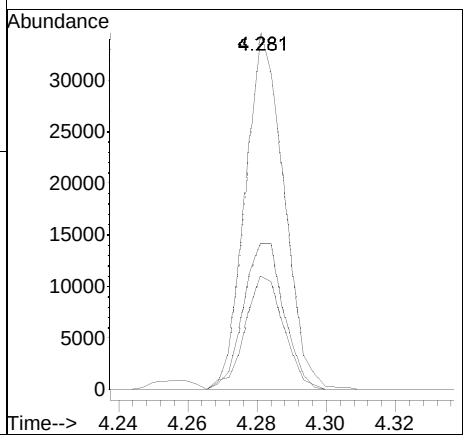


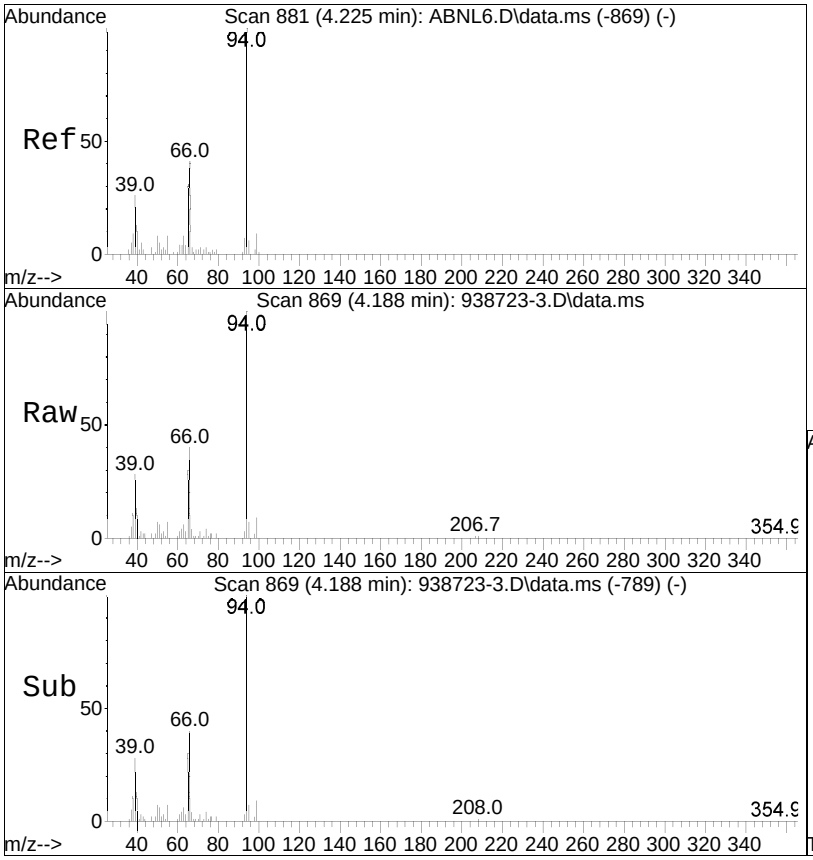


#6
2-Chlorophenol
Concen: 3.11 ug/ml
RT: 4.281 min Scan# 899
Delta R.T. -0.000 min
Lab File: 938723-3.D
Acq: 25 Jun 2024 11:03 am

Tgt Ion:128 Resp: 26672

Ion	Ratio	Lower	Upper
128	100		
64	42.9	45.1	67.7#
130	32.3	26.2	39.4

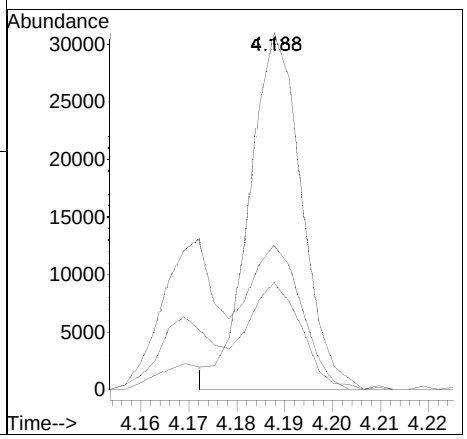


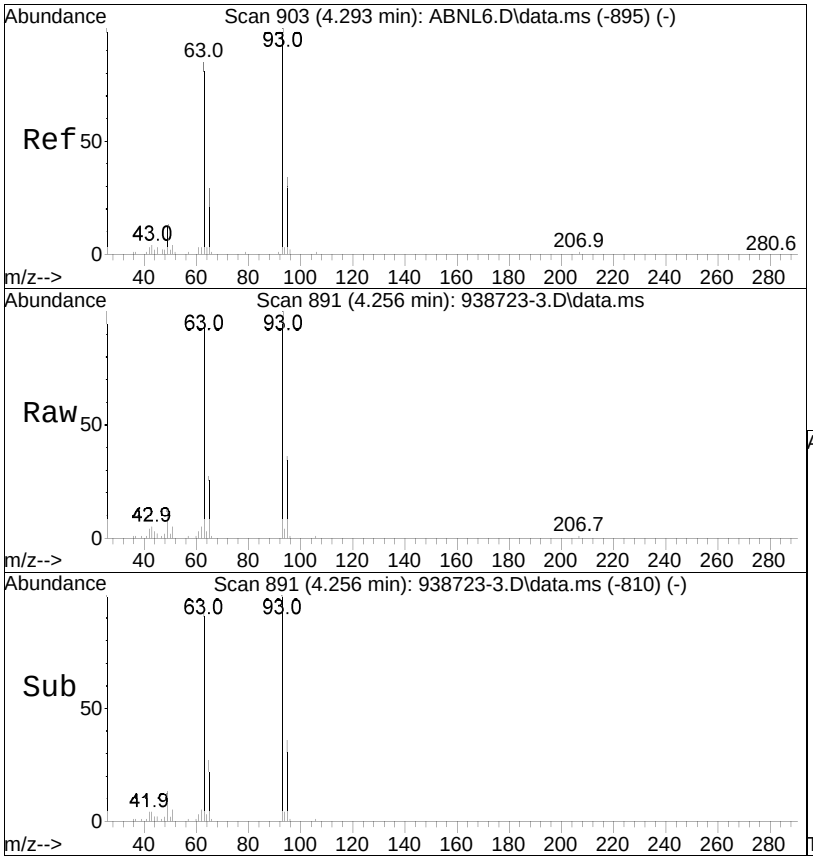


#8
Phenol
Concen: 2.07 ug/ml M6
RT: 4.188 min Scan# 869
Delta R.T. -0.000 min
Lab File: 938723-3.D
Acq: 25 Jun 2024 11:03 am

Tgt Ion: 94 Resp: 23378

Ion	Ratio	Lower	Upper
94	100		
65	29.8	26.0	39.0
66	41.2	33.8	50.8

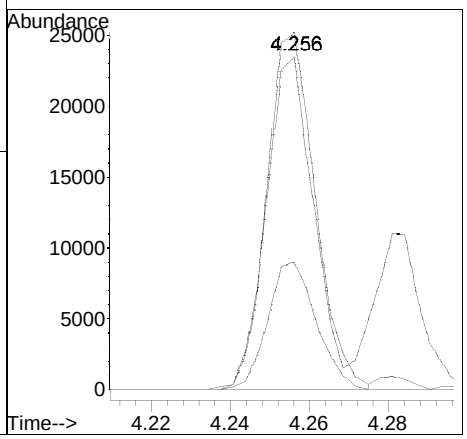


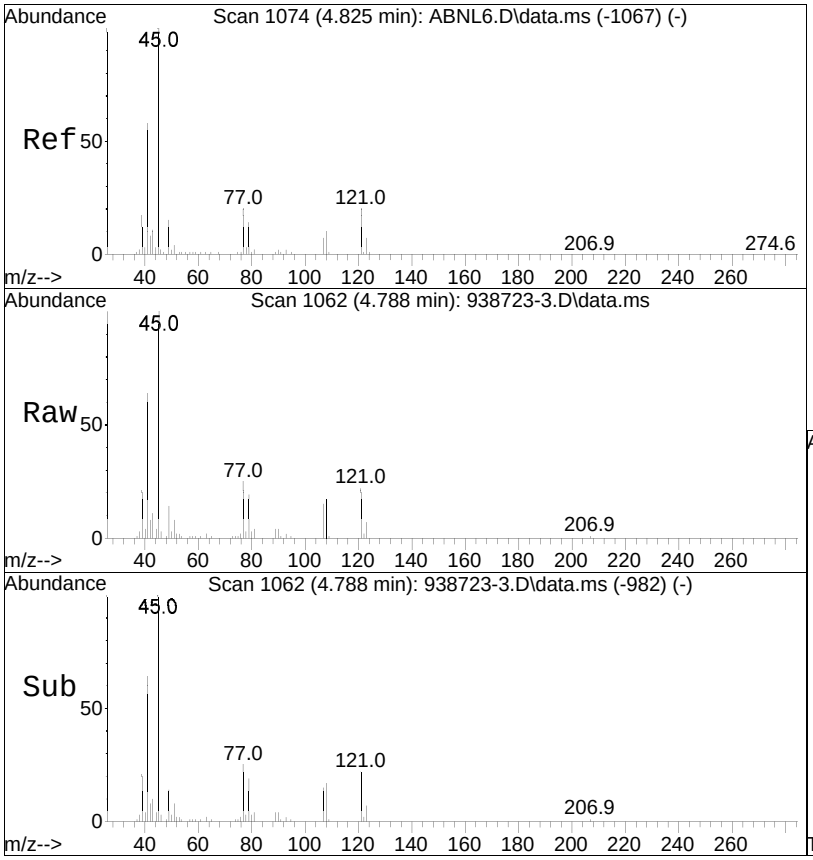


#9
Bis(2-chloroethyl)ether
Concen: 2.89 ug/ml
RT: 4.256 min Scan# 891
Delta R.T. -0.000 min
Lab File: 938723-3.D
Acq: 25 Jun 2024 11:03 am

Tgt Ion: 93 Resp: 21384

Ion	Ratio	Lower	Upper
93	100		
63	90.7	74.6	111.8
95	35.7	25.9	38.9

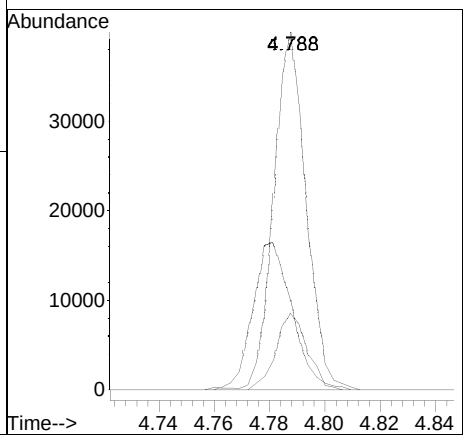


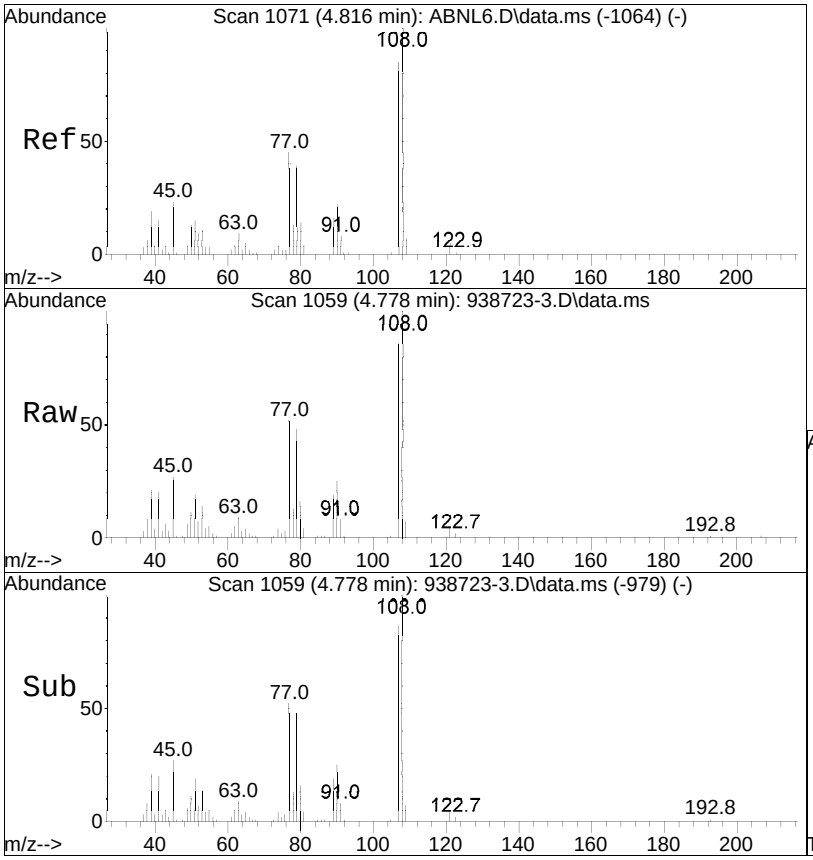


#14
Bis(2-chloroisopropyl)ether
Concen: 2.92 ug/ml
RT: 4.788 min Scan# 1062
Delta R.T. -0.000 min
Lab File: 938723-3.D
Acq: 25 Jun 2024 11:03 am

Tgt Ion: 45 Resp: 32223

Ion	Ratio	Lower	Upper
45	100		
121	20.8	9.8	14.6#
77	50.1	6.1	9.1#

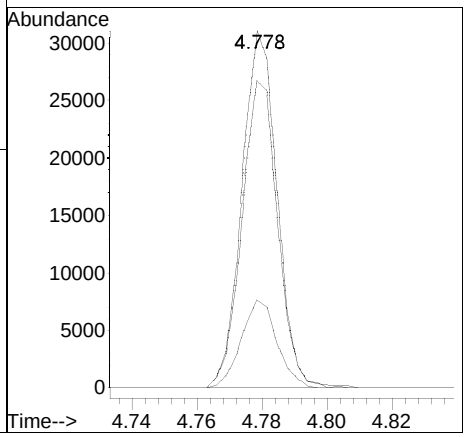


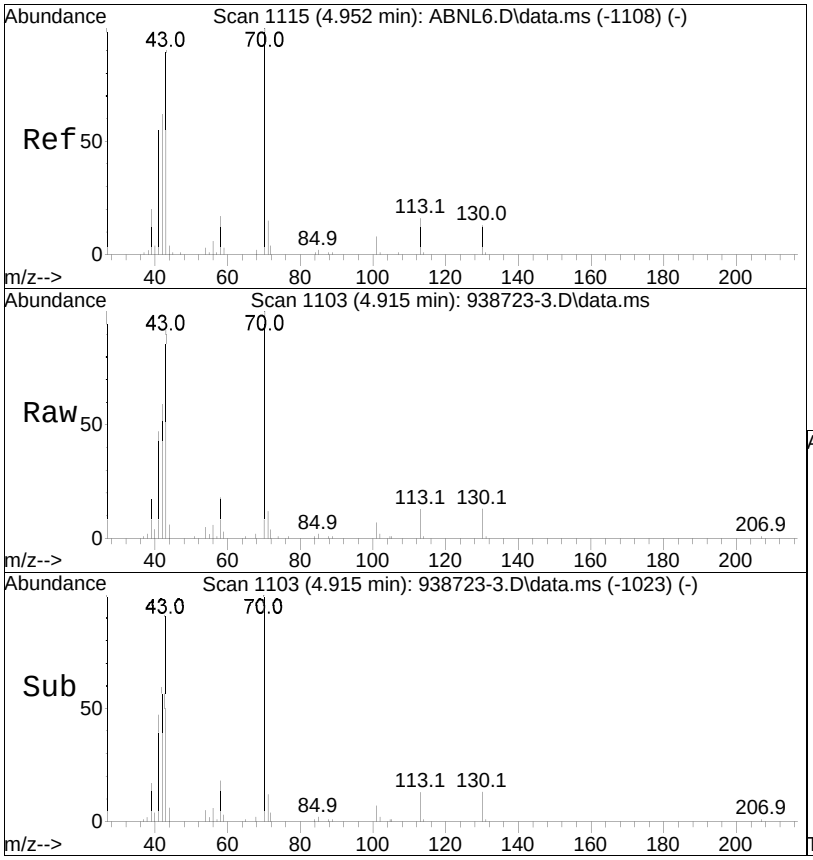


#15
2-Methylphenol
Concen: 3.00 ug/ml
RT: 4.778 min Scan# 1059
Delta R.T. -0.000 min
Lab File: 938723-3.D
Acq: 25 Jun 2024 11:03 am

Tgt Ion:108 Resp: 23238

Ion	Ratio	Lower	Upper
108	100		
107	87.5	70.7	106.1
90	25.1	18.7	28.1

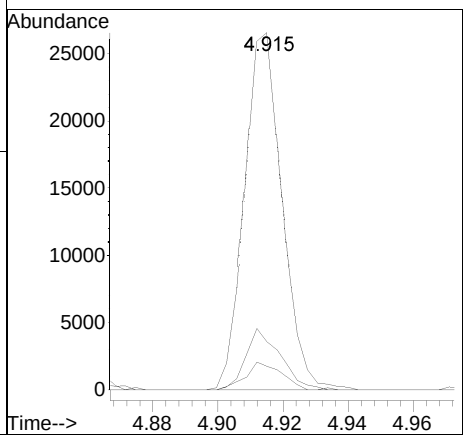


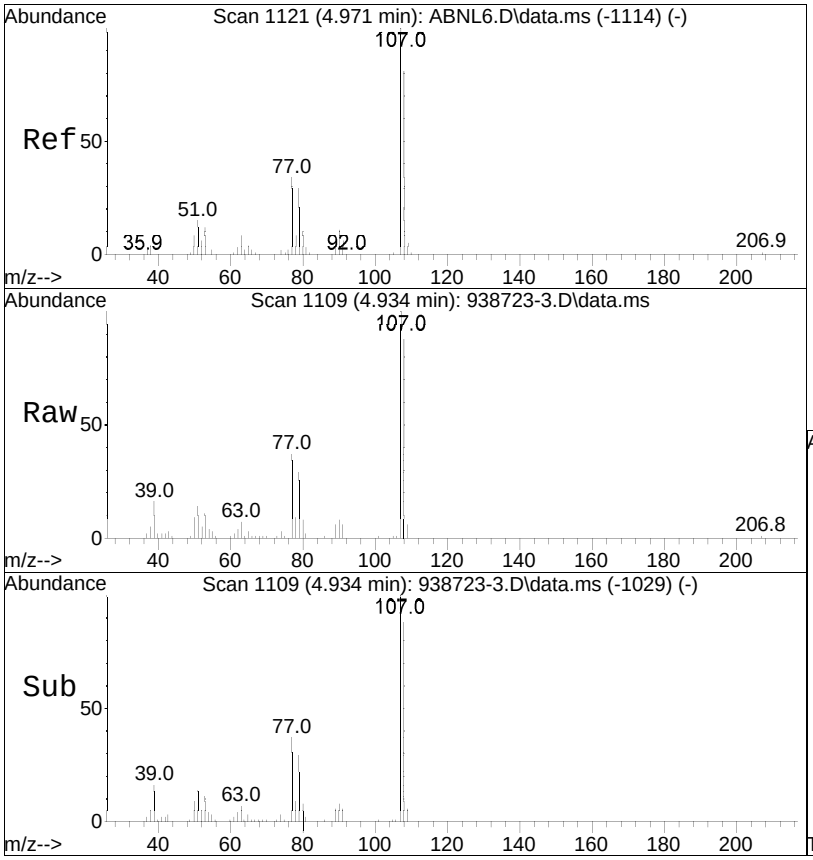


#17
n-Nitrosodi-n-propylamine
Concen: 3.11 ug/ml
RT: 4.915 min Scan# 1103
Delta R.T. -0.000 min
Lab File: 938723-3.D
Acq: 25 Jun 2024 11:03 am

Tgt Ion: 70 Resp: 21176

Ion	Ratio	Lower	Upper
70	100		
130	15.7	18.2	27.4#
101	7.4	7.8	11.8#

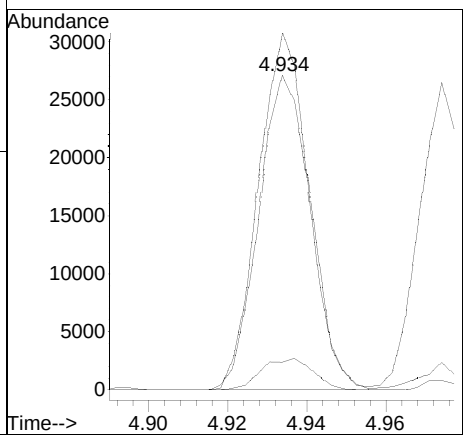


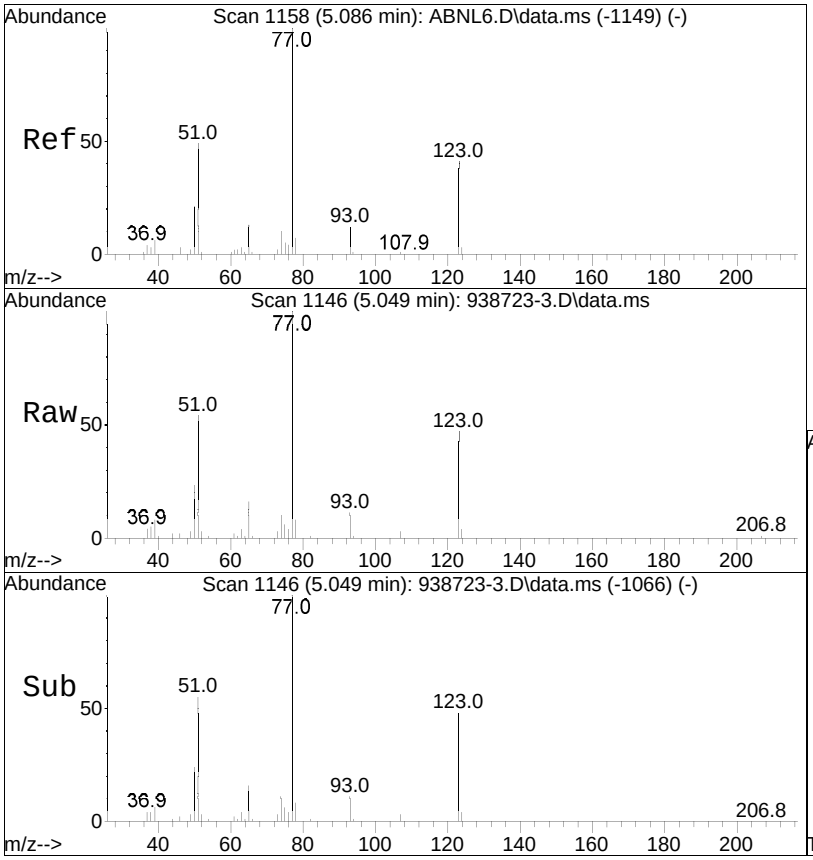


#18
3-Methylphenol/4-Methylphenol
Concen: 3.02 ug/ml
RT: 4.934 min Scan# 1109
Delta R.T. -0.000 min
Lab File: 938723-3.D
Acq: 25 Jun 2024 11:03 am

Tgt Ion:108 Resp: 24683

Ion	Ratio	Lower	Upper
108	100		
107	111.6	88.6	132.8
90	10.2	8.8	13.2

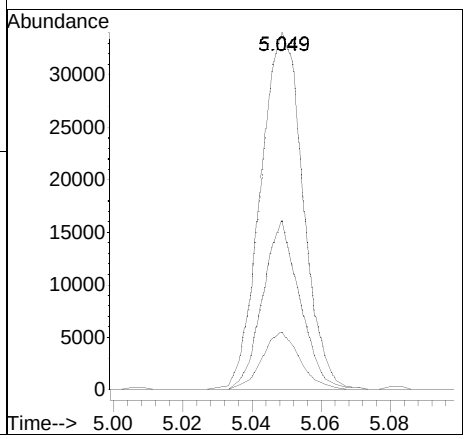


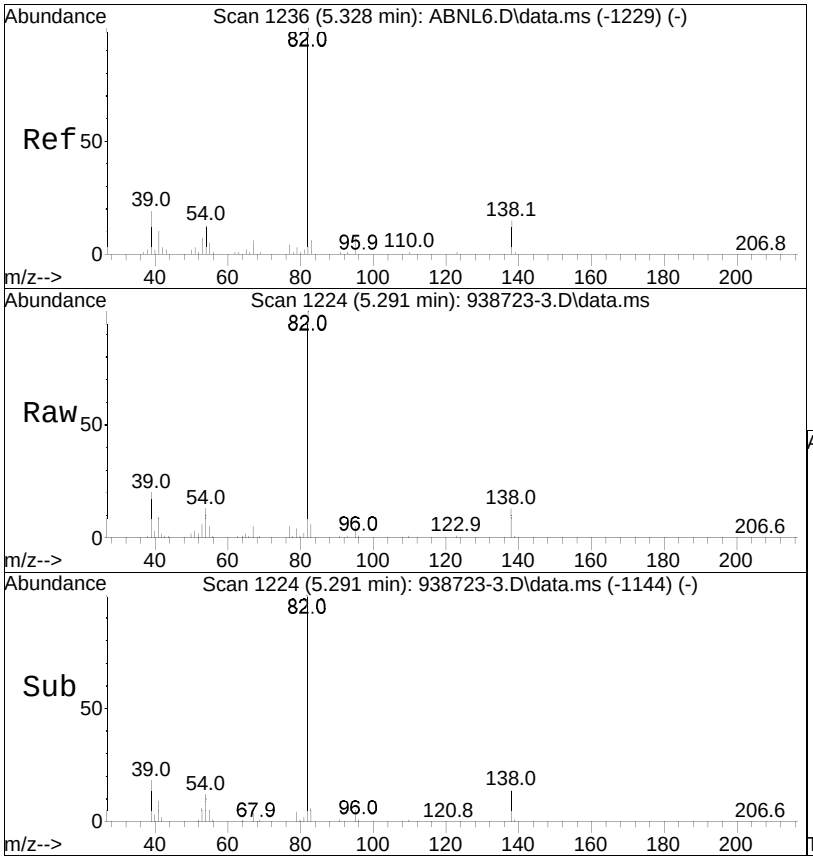


#20
Nitrobenzene
Concen: 2.98 ug/ml
RT: 5.049 min Scan# 1146
Delta R.T. -0.000 min
Lab File: 938723-3.D
Acq: 25 Jun 2024 11:03 am

Tgt Ion: 77 Resp: 28849

Ion	Ratio	Lower	Upper
77	100		
123	41.6	36.3	54.5
65	14.4	11.6	17.4

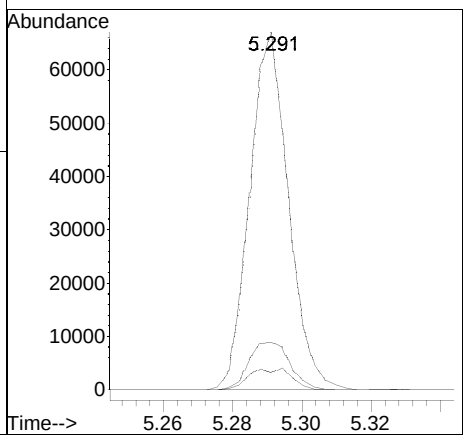


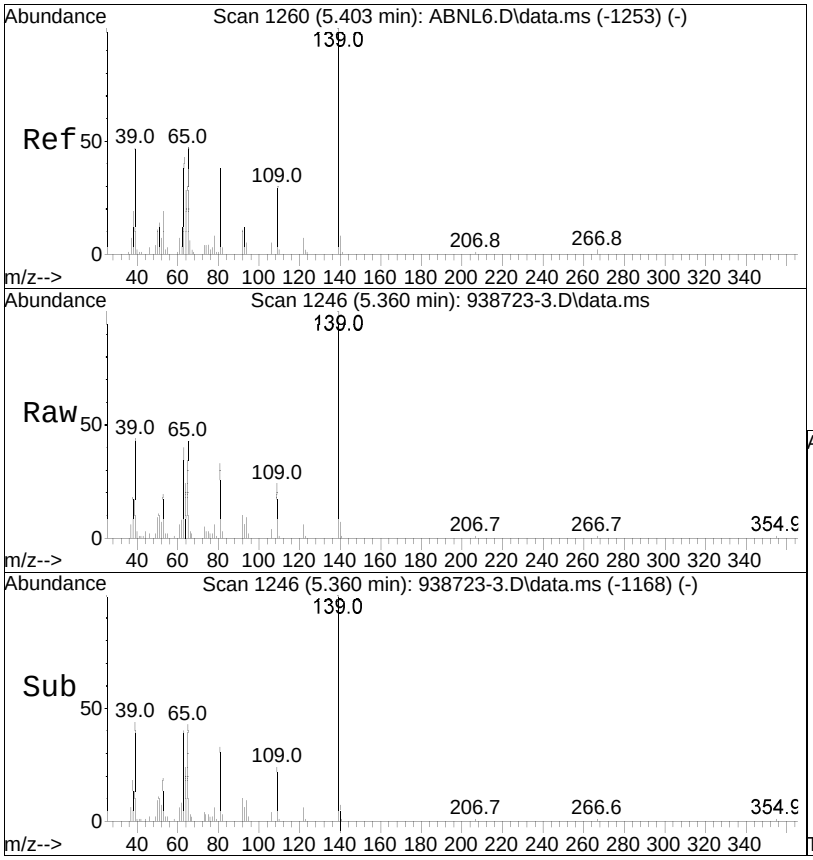


#21
Isophorone
Concen: 3.04 ug/ml
RT: 5.291 min Scan# 1224
Delta R.T. -0.000 min
Lab File: 938723-3.D
Acq: 25 Jun 2024 11:03 am

Tgt Ion: 82 Resp: 51555

Ion	Ratio	Lower	Upper
82	100		
138	14.3	14.7	22.1#
95	6.7	5.2	7.8

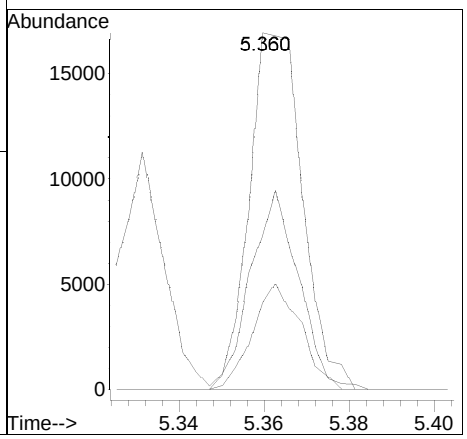


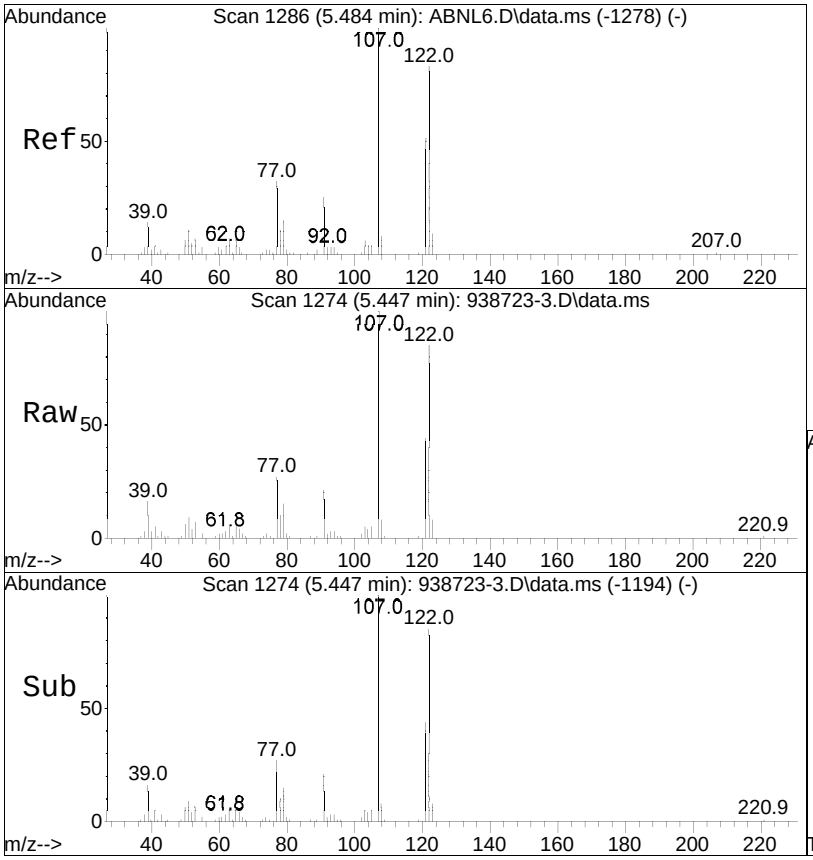


#22
2-Nitrophenol
Concen: 3.07 ug/ml
RT: 5.360 min Scan# 1246
Delta R.T. -0.006 min
Lab File: 938723-3.D
Acq: 25 Jun 2024 11:03 am

Tgt Ion:139 Resp: 14734

Ion	Ratio	Lower	Upper
139	100		
109	27.0	19.4	29.0
65	50.4	46.1	69.1

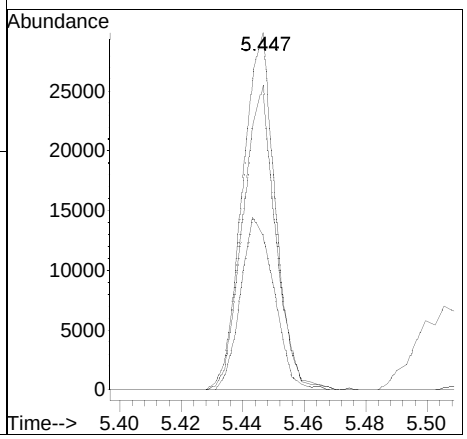


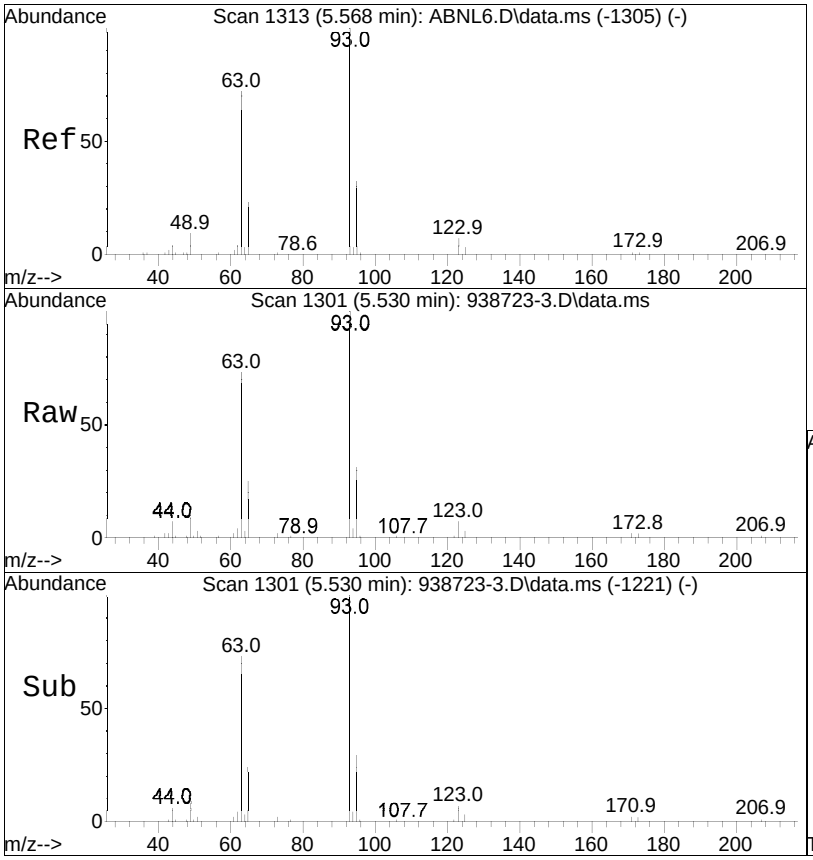


#23
2,4-Dimethylphenol
Concen: 2.70 ug/ml
RT: 5.447 min Scan# 1274
Delta R.T. -0.000 min
Lab File: 938723-3.D
Acq: 25 Jun 2024 11:03 am

Tgt Ion:107 Resp: 22072

Ion	Ratio	Lower	Upper
107	100		
121	49.6	40.0	60.0
122	84.8	70.2	105.4

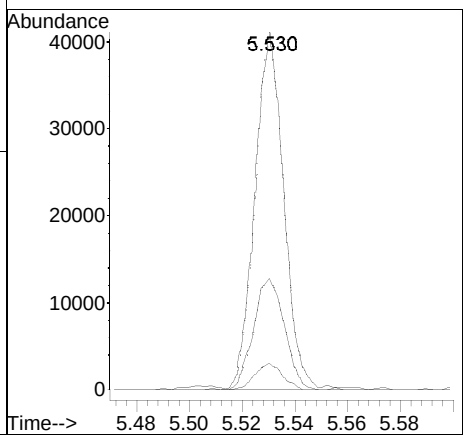


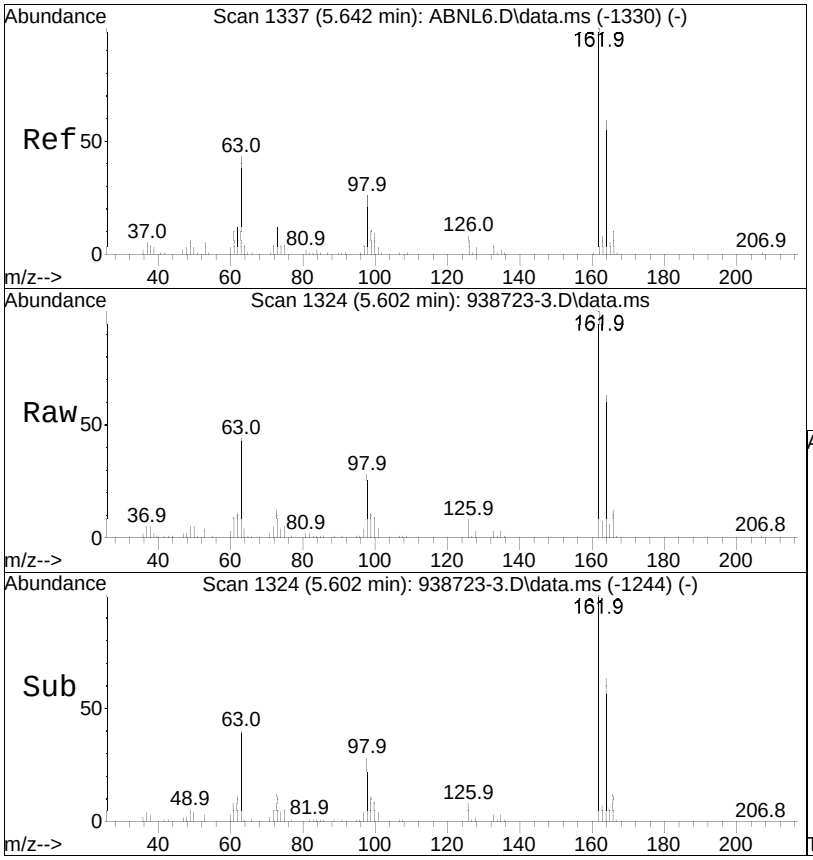


#24
Bis(2-chloroethoxy)methane
Concen: 2.99 ug/ml
RT: 5.530 min Scan# 1301
Delta R.T. -0.000 min
Lab File: 938723-3.D
Acq: 25 Jun 2024 11:03 am

Tgt Ion: 93 Resp: 31156

Ion	Ratio	Lower	Upper
93	100		
95	33.3	25.8	38.8
123	7.2	10.1	15.1#

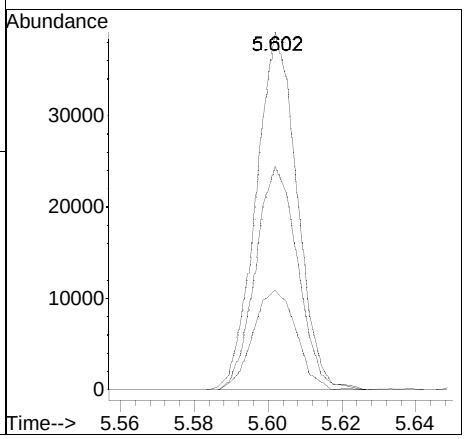


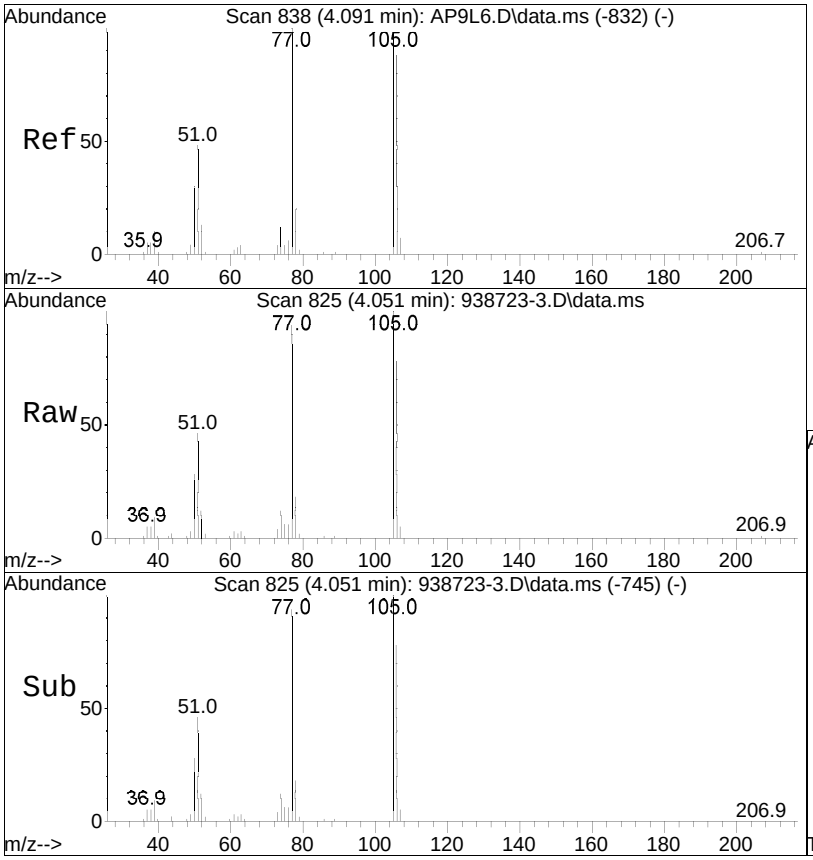


#25
2,4-Dichlorophenol
Concen: 3.25 ug/ml
RT: 5.602 min Scan# 1324
Delta R.T. -0.000 min
Lab File: 938723-3.D
Acq: 25 Jun 2024 11:03 am

Tgt Ion:162 Resp: 29967

Ion	Ratio	Lower	Upper
162	100		
164	64.5	51.0	76.4
98	29.7	32.2	48.2#

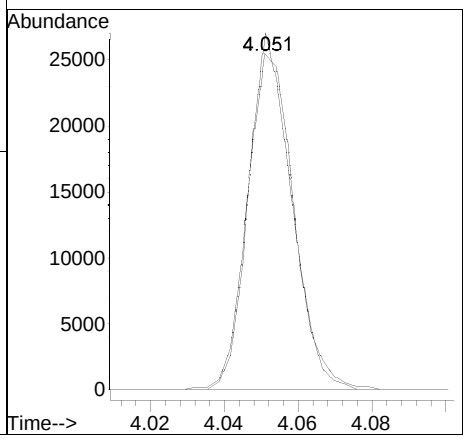


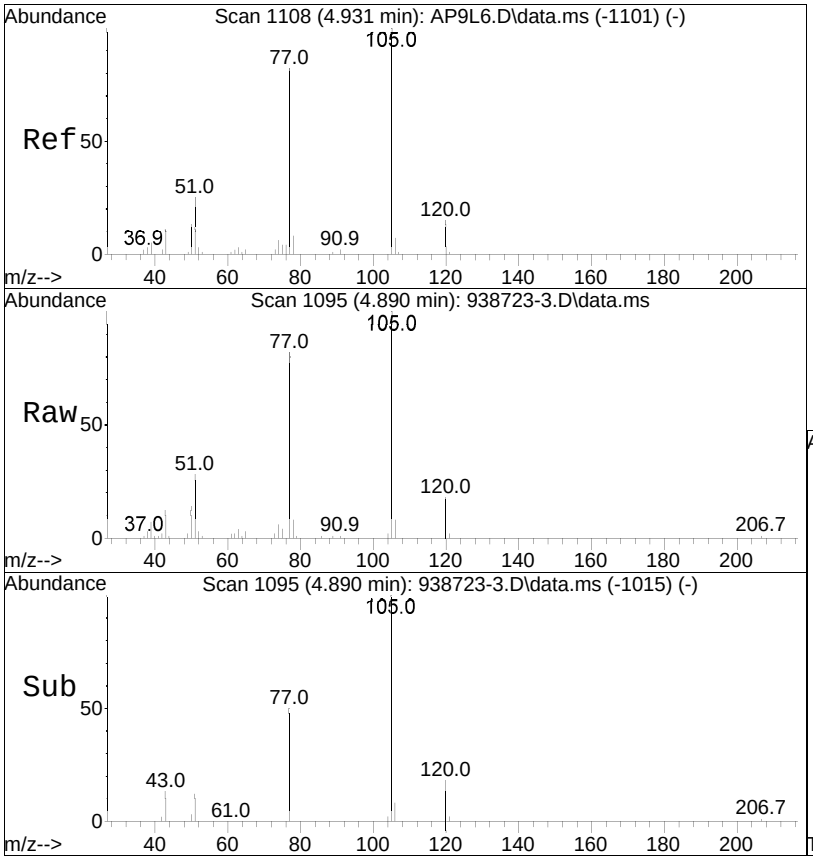


#28
Benzaldehyde
Concen: 2.81 ug/ml
RT: 4.051 min Scan# 825
Delta R.T. 0.000 min
Lab File: 938723-3.D
Acq: 25 Jun 2024 11:03 am

Tgt Ion:105 Resp: 21688

Ion	Ratio	Lower	Upper
105	100		
77	103.1	82.2	123.4

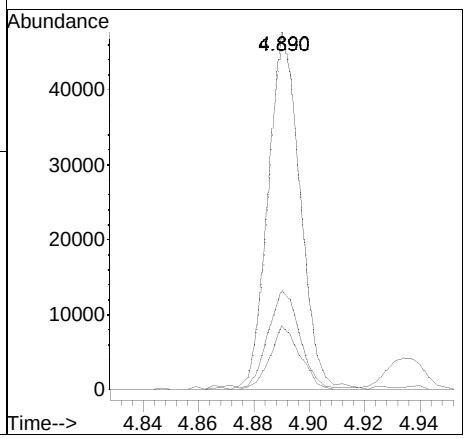


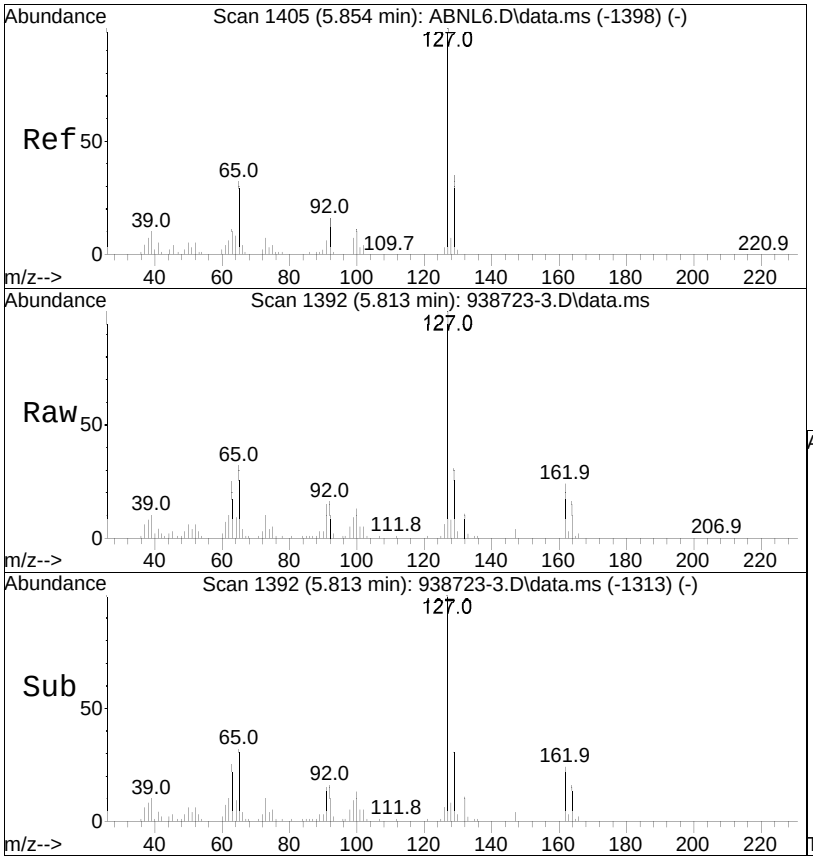


#29
Acetophenone
Concen: 2.88 ug/ml
RT: 4.890 min Scan# 1095
Delta R.T. 0.000 min
Lab File: 938723-3.D
Acq: 25 Jun 2024 11:03 am

Tgt Ion:105 Resp: 37991

Ion	Ratio	Lower	Upper
105	100		
120	16.7	20.5	30.7#
51	27.1	34.9	52.3#

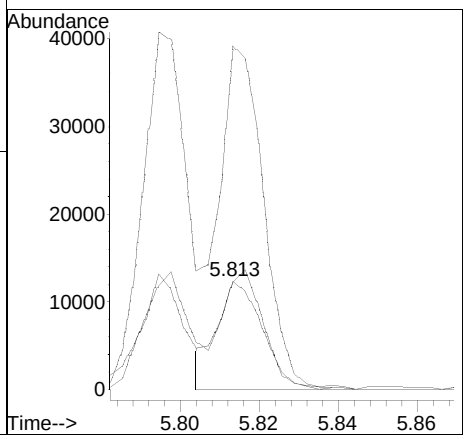


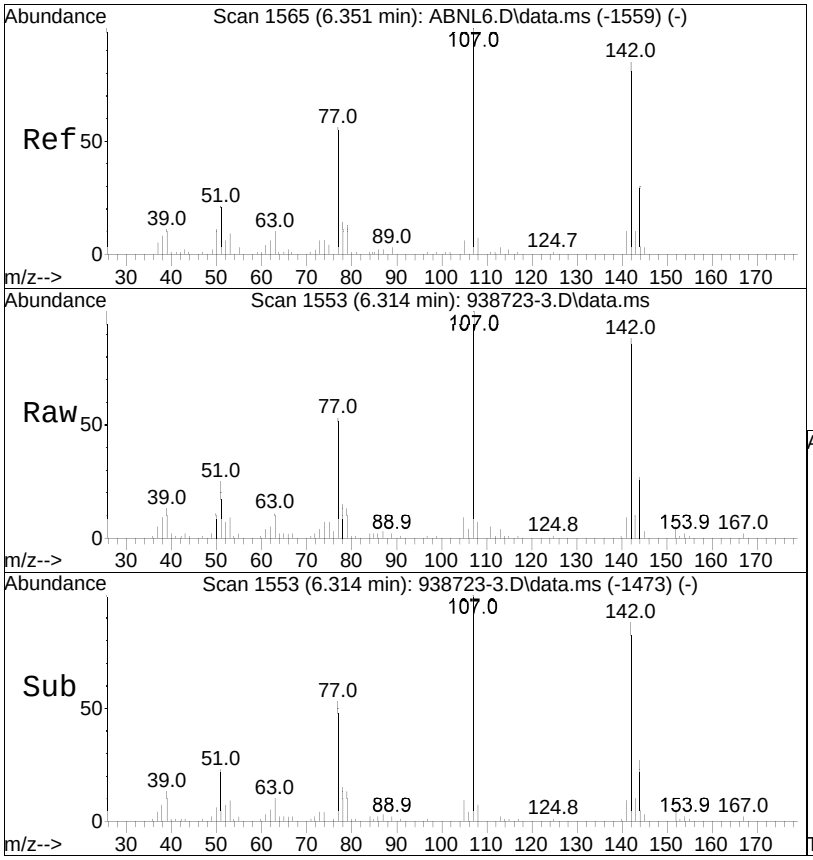


#38
4-Chloroaniline
Concen: 3.03 ug/ml
RT: 5.813 min Scan# 1392
Delta R.T. -0.003 min
Lab File: 938723-3.D
Acq: 25 Jun 2024 11:03 am

Tgt Ion: 65 Resp: 9898

Ion	Ratio	Lower	Upper
65	100		
127	314.2	237.6	356.4
129	97.9	76.3	114.5

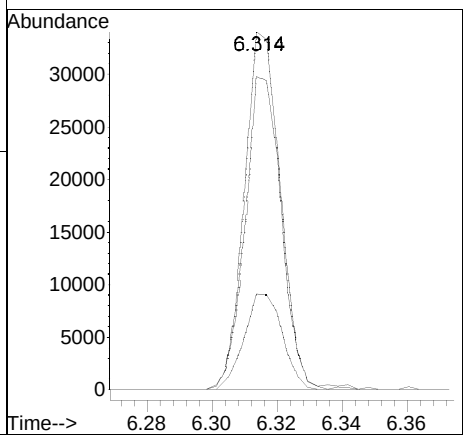


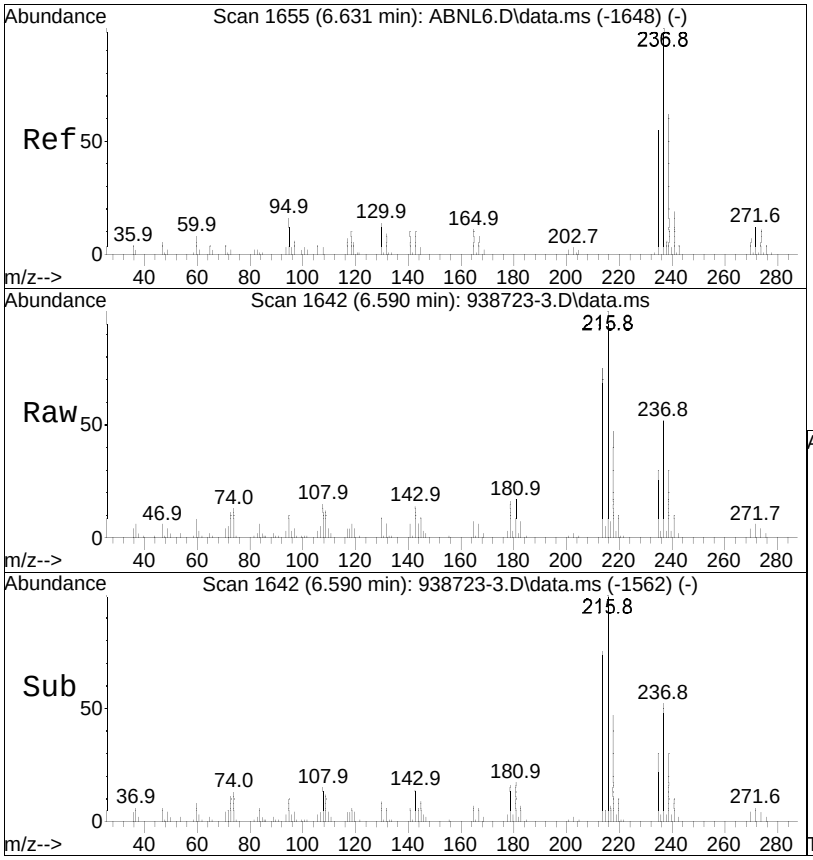


#40
p-Chloro-m-cresol
Concen: 3.47 ug/ml
RT: 6.314 min Scan# 1553
Delta R.T. -0.000 min
Lab File: 938723-3.D
Acq: 25 Jun 2024 11:03 am

Tgt Ion:107 Resp: 25974

Ion	Ratio	Lower	Upper
107	100		
144	28.5	20.9	31.3
142	87.6	66.1	99.1

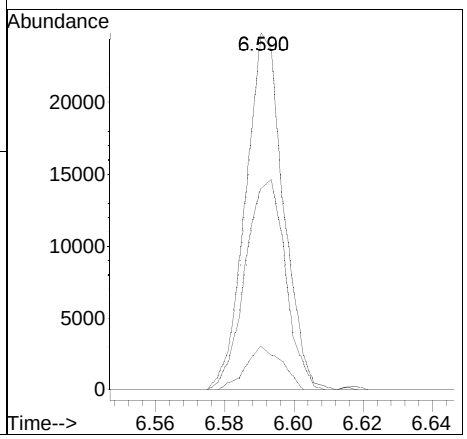


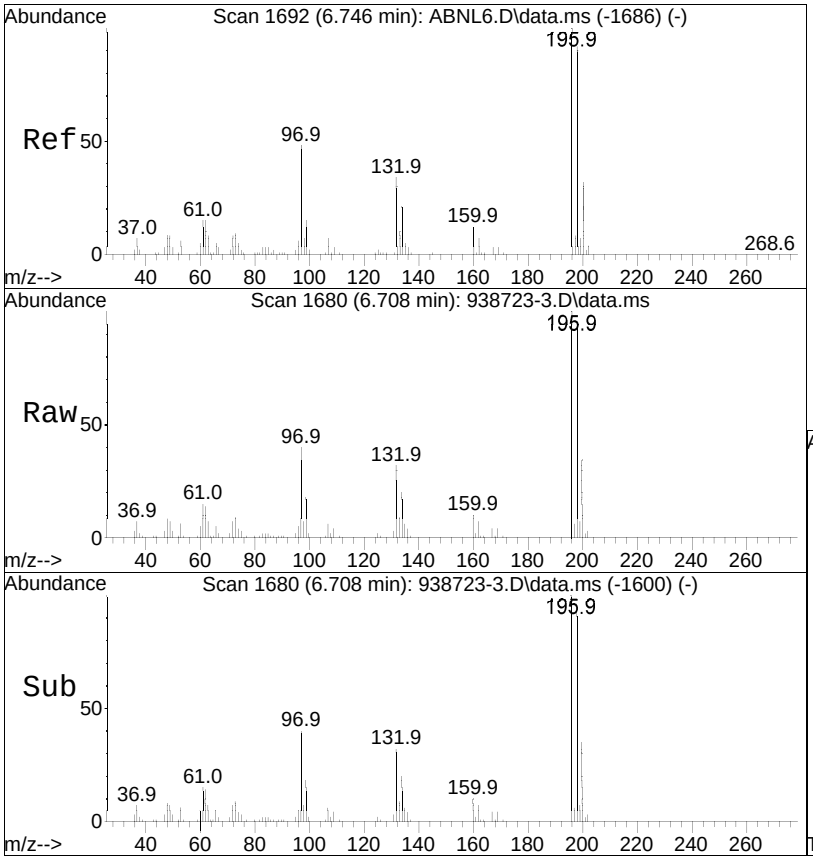


#43
Hexachlorocyclopentadiene
Concen: 2.52 ug/ml
RT: 6.590 min Scan# 1642
Delta R.T. -0.000 min
Lab File: 938723-3.D
Acq: 25 Jun 2024 11:03 am

Tgt Ion:237 Resp: 18798

Ion	Ratio	Lower	Upper
237	100		
235	62.9	49.7	74.5
272	11.8	9.8	14.6

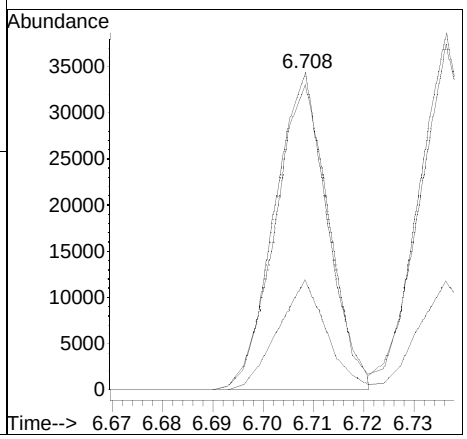


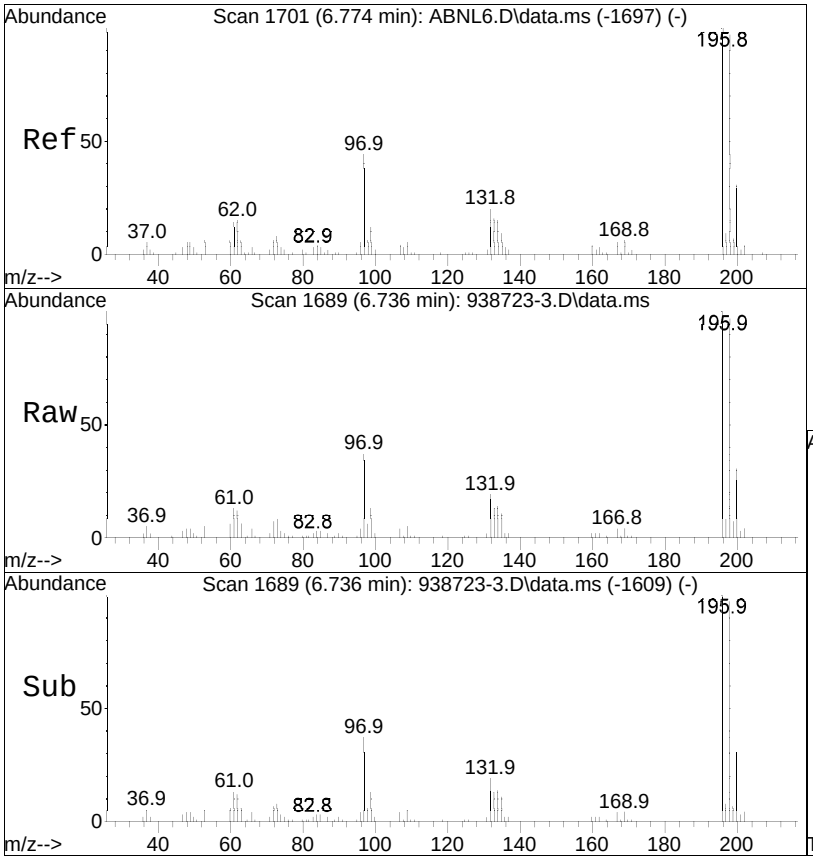


#44
2,4,6-Trichlorophenol
Concen: 3.28 ug/ml
RT: 6.708 min Scan# 1680
Delta R.T. -0.000 min
Lab File: 938723-3.D
Acq: 25 Jun 2024 11:03 am

Tgt Ion:196 Resp: 25036

Ion	Ratio	Lower	Upper
196	100		
198	98.3	77.5	116.3
200	32.1	23.8	35.6

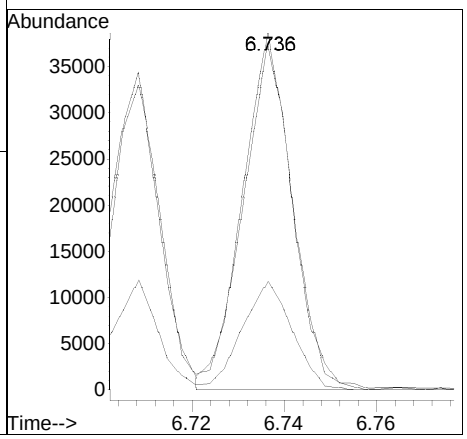


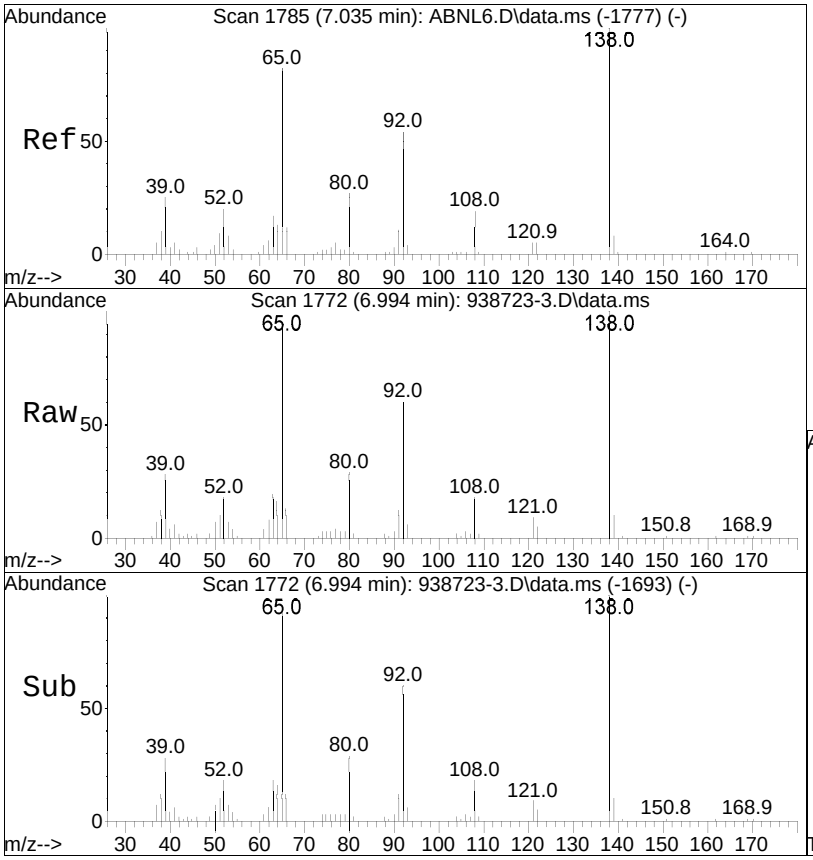


#45
2,4,5-Trichlorophenol
Concen: 3.53 ug/ml
RT: 6.736 min Scan# 1689
Delta R.T. -0.000 min
Lab File: 938723-3.D
Acq: 25 Jun 2024 11:03 am

Tgt Ion:196 Resp: 28792

Ion	Ratio	Lower	Upper
196	100		
200	30.9	25.4	38.0
198	95.7	78.0	117.0

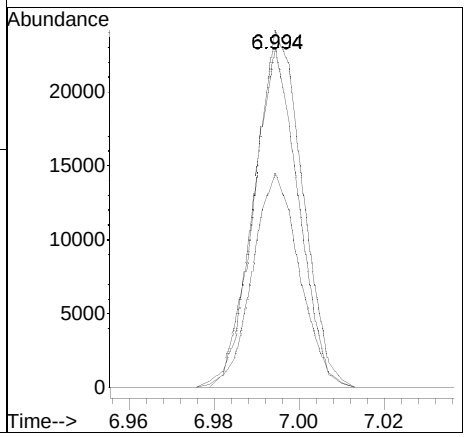


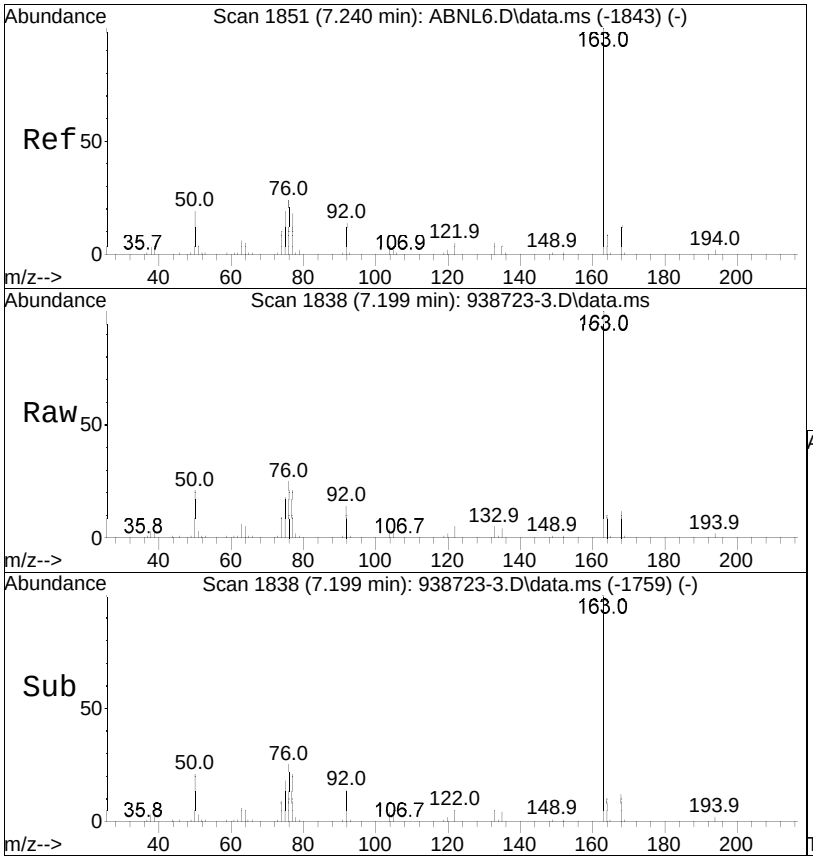


#48
2-Nitroaniline
Concen: 3.29 ug/ml
RT: 6.994 min Scan# 1772
Delta R.T. -0.003 min
Lab File: 938723-3.D
Acq: 25 Jun 2024 11:03 am

Tgt Ion:138 Resp: 18758

Ion	Ratio	Lower	Upper
138	100		
92	59.1	53.5	80.3
65	89.3	86.3	129.5

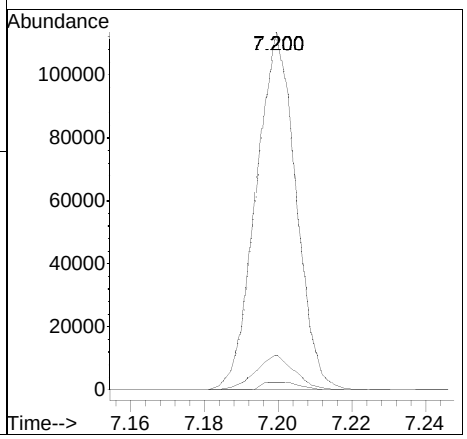


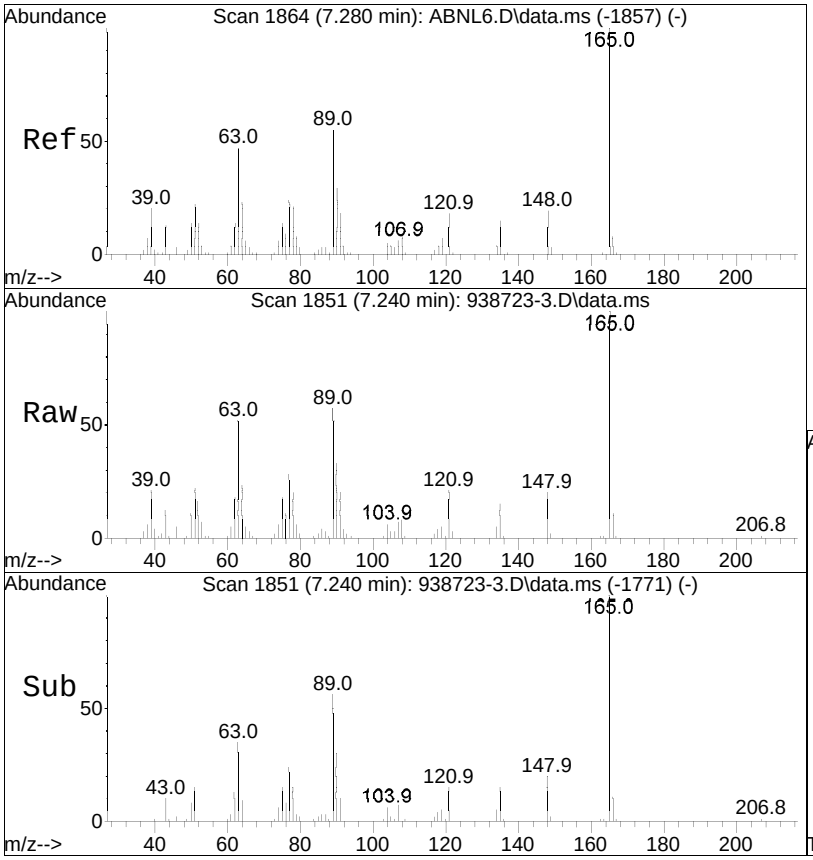


#51
Dimethyl phthalate
Concen: 3.18 ug/ml
RT: 7.199 min Scan# 1838
Delta R.T. -0.003 min
Lab File: 938723-3.D
Acq: 25 Jun 2024 11:03 am

Tgt Ion:163 Resp: 84461

Ion	Ratio	Lower	Upper
163	100		
194	2.1	3.5	5.3#
164	9.6	7.9	11.9

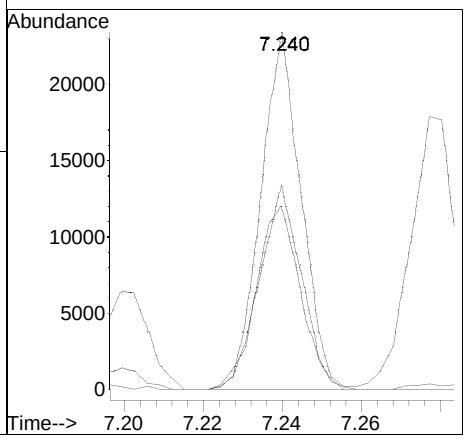


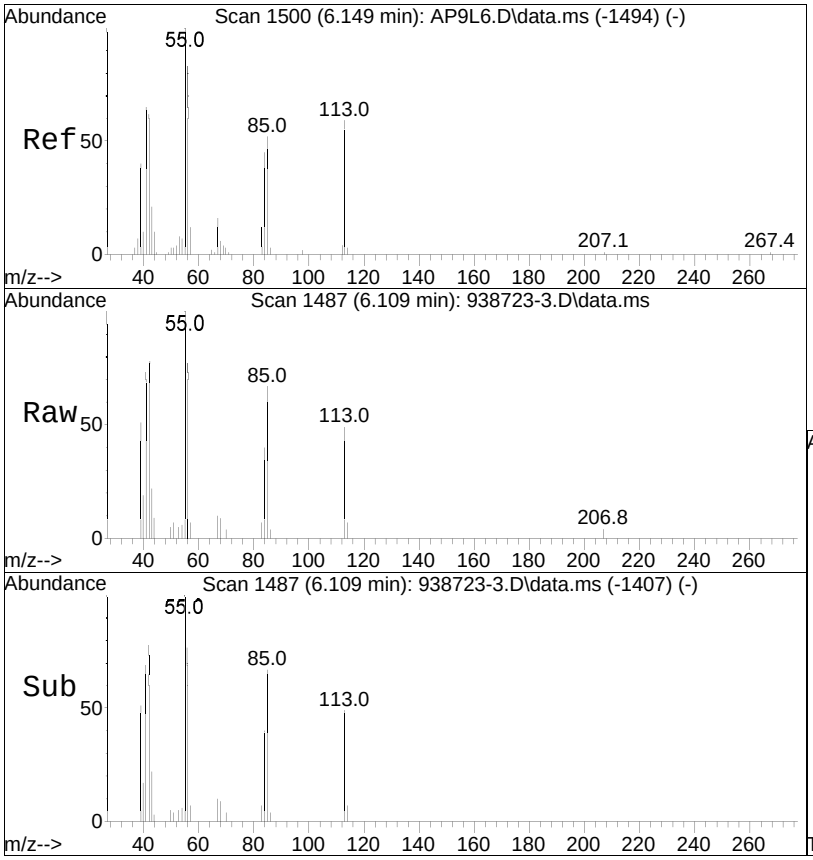


#53
2,6-Dinitrotoluene
Concen: 3.15 ug/ml
RT: 7.240 min Scan# 1851
Delta R.T. -0.000 min
Lab File: 938723-3.D
Acq: 25 Jun 2024 11:03 am

Tgt Ion:165 Resp: 16558

Ion	Ratio	Lower	Upper
165	100		
89	59.4	54.2	81.2
63	56.8	64.2	96.2#

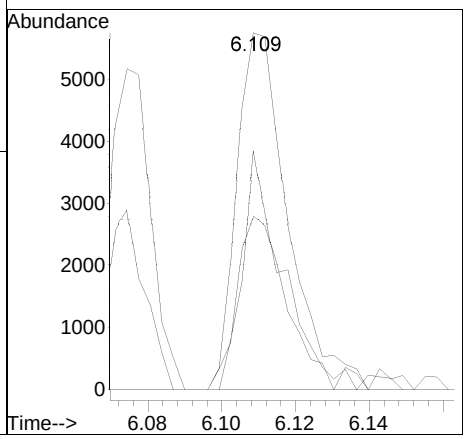


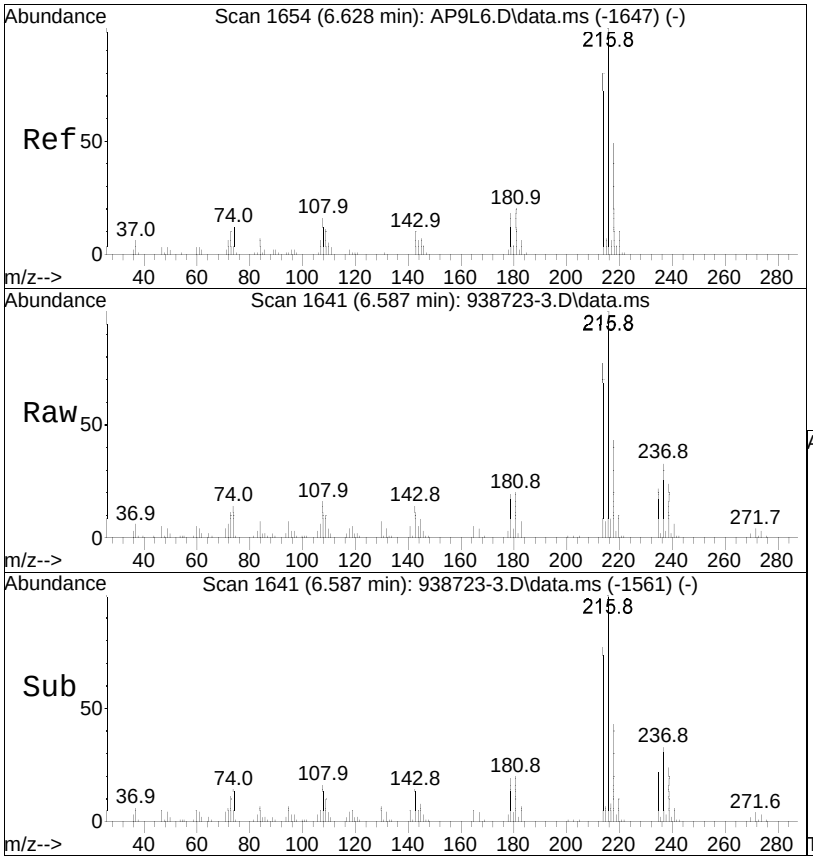


#60
Caprolactam
Concen: 1.62 ug/ml
RT: 6.109 min Scan# 1487
Delta R.T. 0.000 min
Lab File: 938723-3.D
Acq: 25 Jun 2024 11:03 am

Tgt Ion: 55 Resp: 5574

Ion	Ratio	Lower	Upper
55	100		
85	52.2	19.8	29.6#
113	46.6	29.6	44.4#

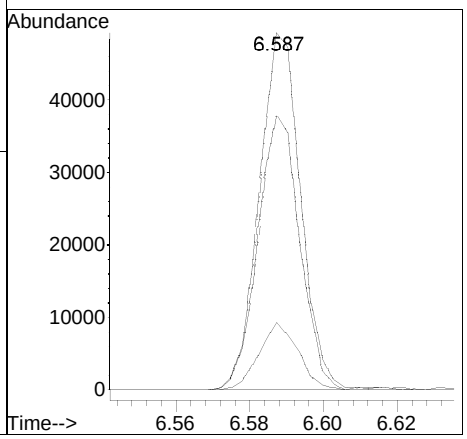


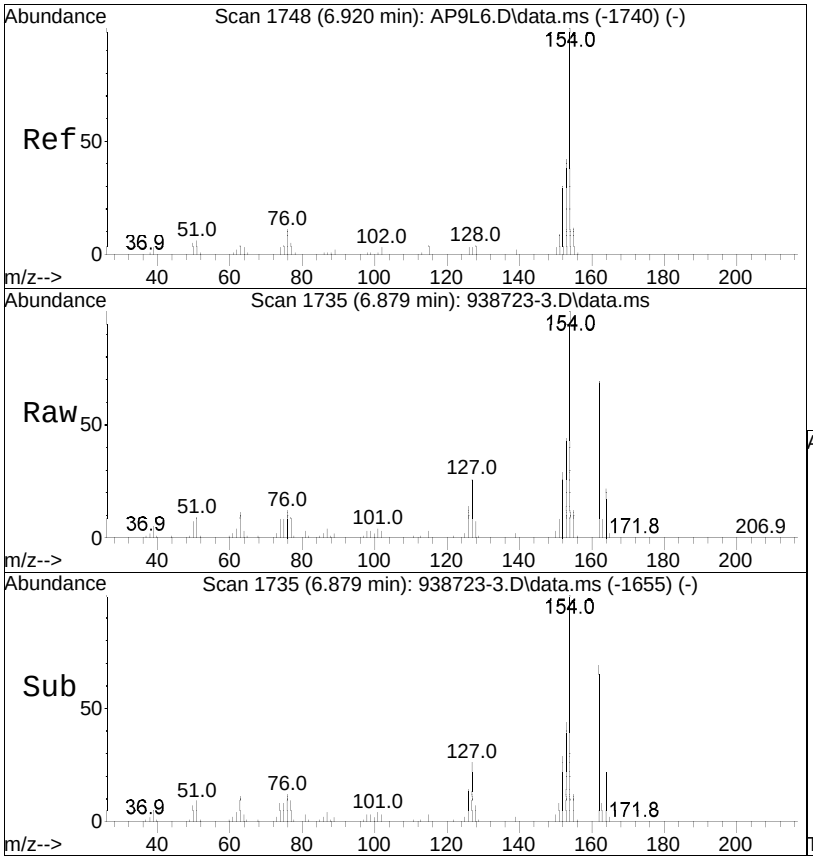


#61
1,2,4,5-Tetrachlorobenzene
Concen: 2.98 ug/ml
RT: 6.587 min Scan# 1641
Delta R.T. 0.000 min
Lab File: 938723-3.D
Acq: 25 Jun 2024 11:03 am

Tgt Ion:216 Resp: 38282

Ion	Ratio	Lower	Upper
216	100		
214	77.8	63.7	95.5
179	17.9	19.0	28.6#

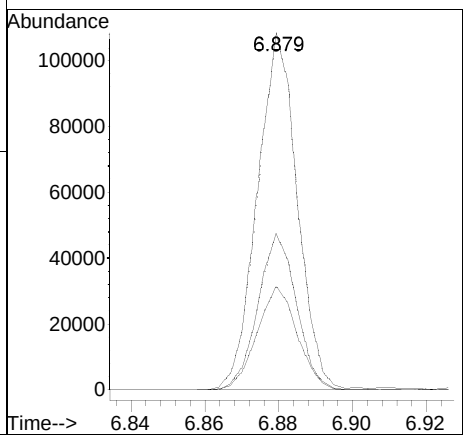


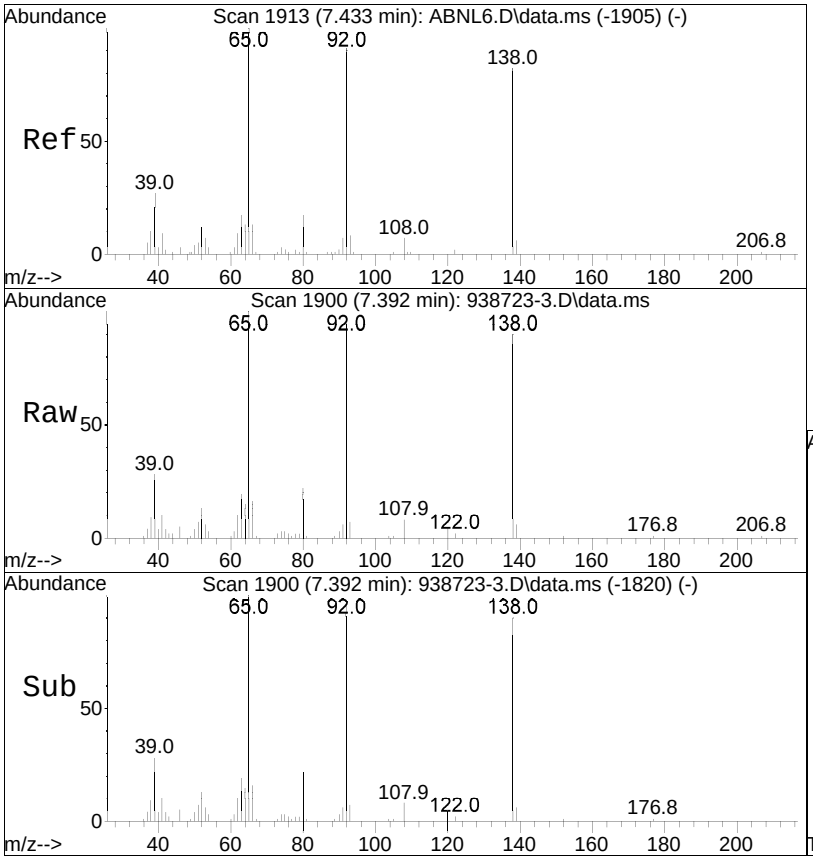


#62
Biphenyl
Concen: 2.94 ug/ml
RT: 6.879 min Scan# 1735
Delta R.T. 0.000 min
Lab File: 938723-3.D
Acq: 25 Jun 2024 11:03 am

Tgt Ion:154 Resp: 80873

Ion	Ratio	Lower	Upper
154	100		
153	42.5	32.3	48.5
152	29.3	22.5	33.7

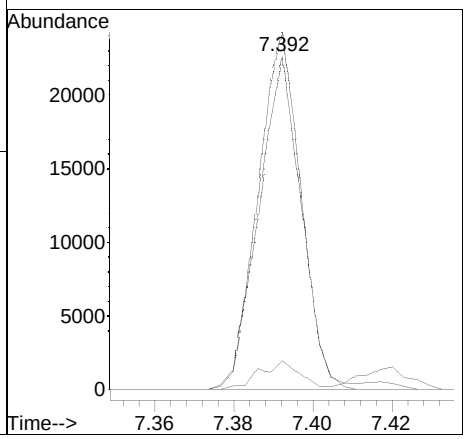


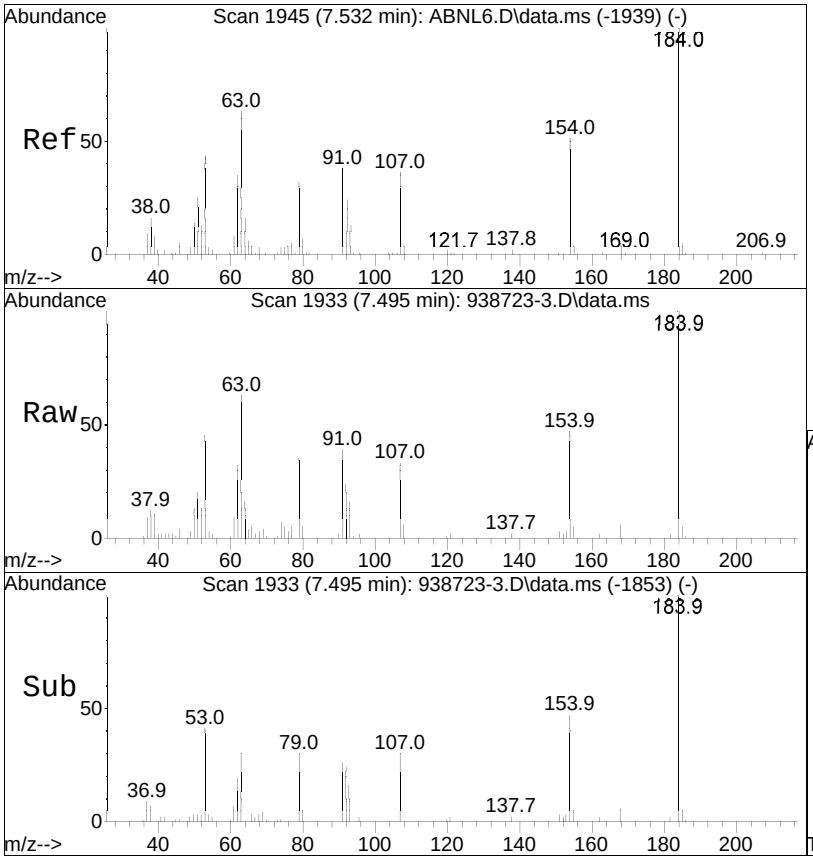


#64
3-Nitroaniline
Concen: 3.19 ug/ml
RT: 7.392 min Scan# 1900
Delta R.T. -0.000 min
Lab File: 938723-3.D
Acq: 25 Jun 2024 11:03 am

Tgt Ion:138 Resp: 16633

Ion	Ratio	Lower	Upper
138	100		
92	109.4	93.4	140.2
108	8.5	9.5	14.3#

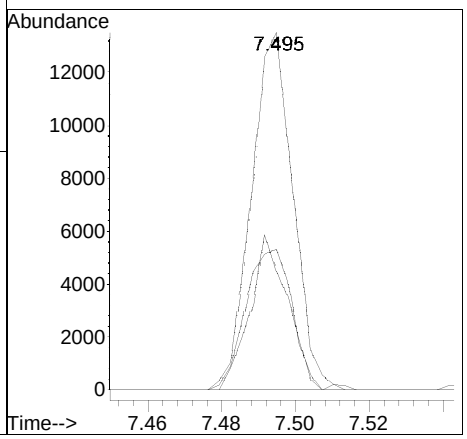


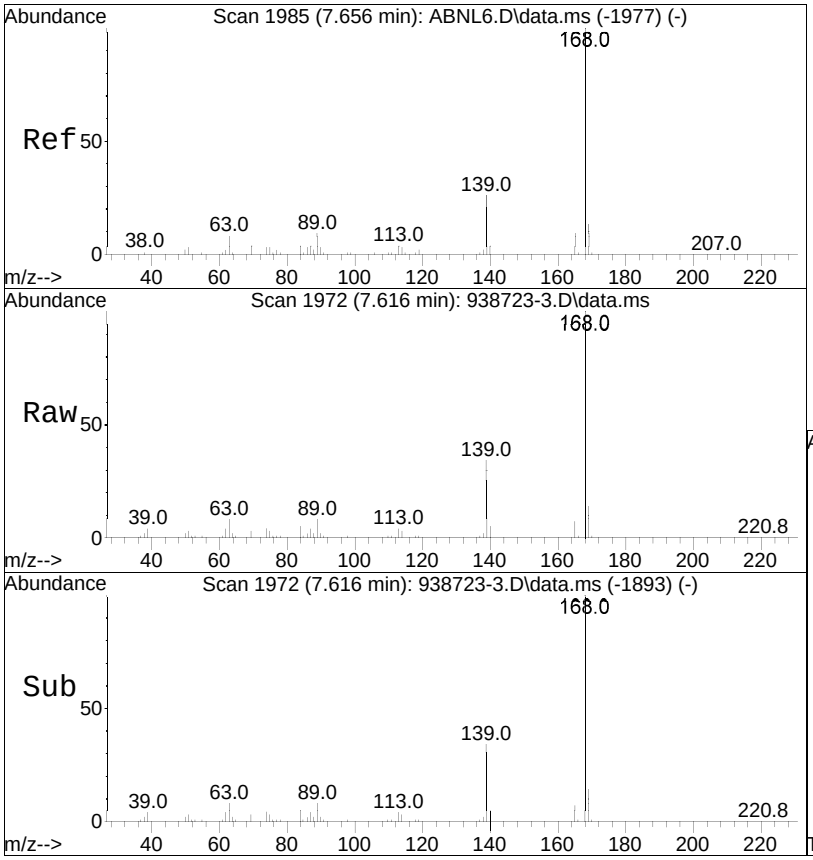


#66
2,4-Dinitrophenol
Concen: 2.93 ug/ml
RT: 7.495 min Scan# 1933
Delta R.T. -0.000 min
Lab File: 938723-3.D
Acq: 25 Jun 2024 11:03 am

Tgt Ion:184 Resp: 10527

Ion	Ratio	Lower	Upper
184	100		
107	39.3	37.7	56.5
91	44.3	46.3	69.5#

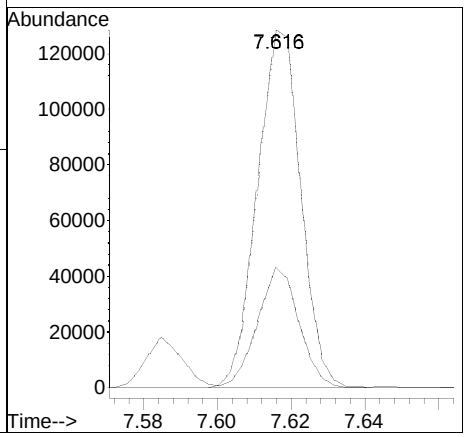


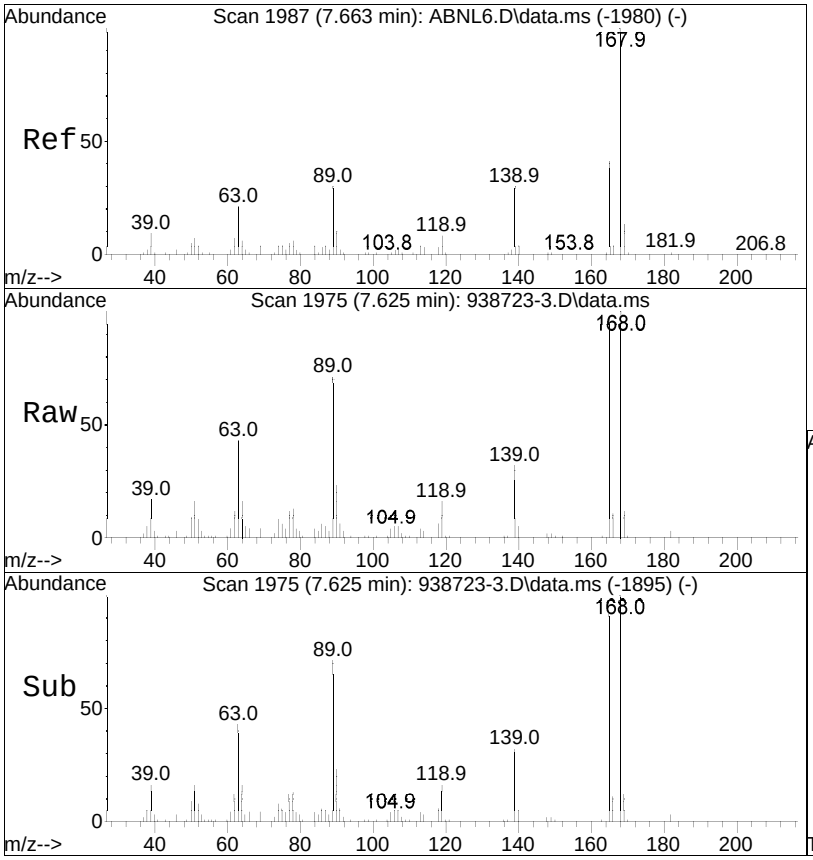


#67
Dibenzofuran
Concen: 3.12 ug/ml
RT: 7.616 min Scan# 1972
Delta R.T. -0.003 min
Lab File: 938723-3.D
Acq: 25 Jun 2024 11:03 am

Tgt Ion:168 Resp: 104327

Ion	Ratio	Lower	Upper
168	100		
139	32.3	31.4	47.2

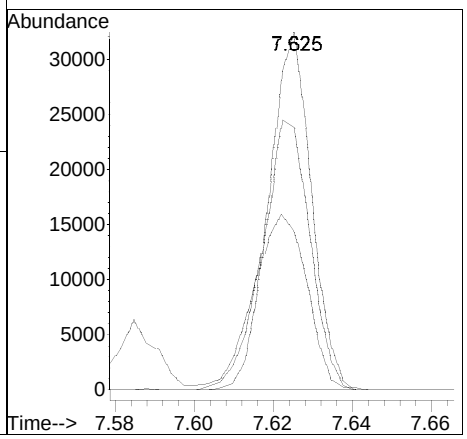


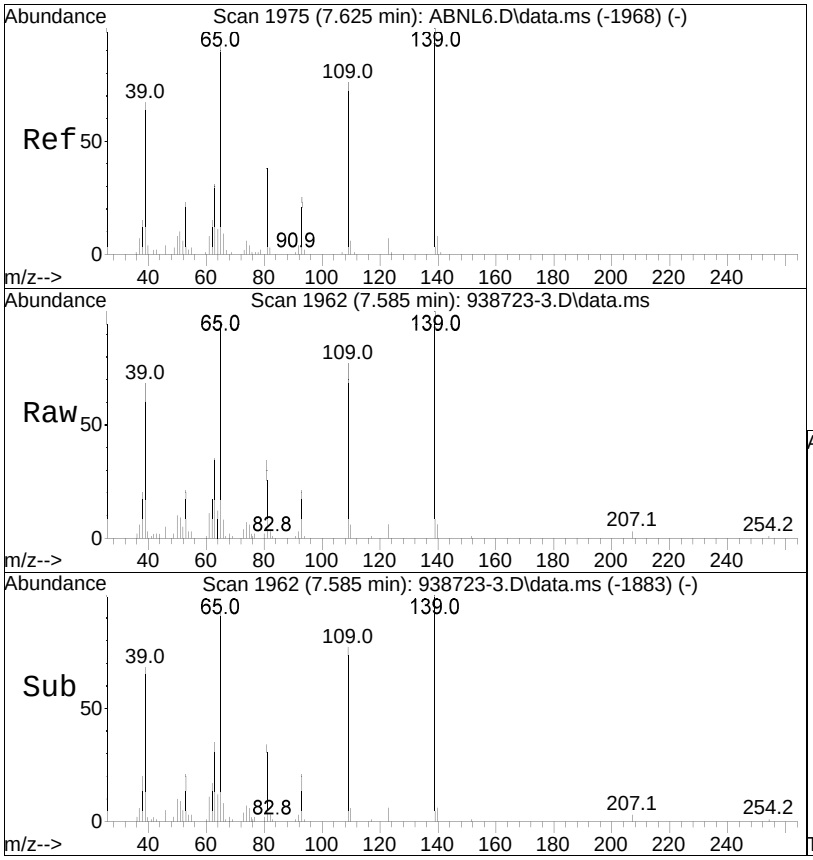


#68
2,4-Dinitrotoluene
Concen: 3.40 ug/ml
RT: 7.625 min Scan# 1975
Delta R.T. -0.000 min
Lab File: 938723-3.D
Acq: 25 Jun 2024 11:03 am

Tgt Ion:165 Resp: 24099

Ion	Ratio	Lower	Upper
165	100		
89	85.0	72.0	108.0
63	62.5	52.7	79.1

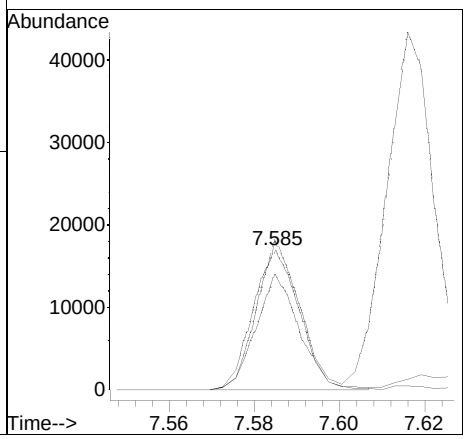


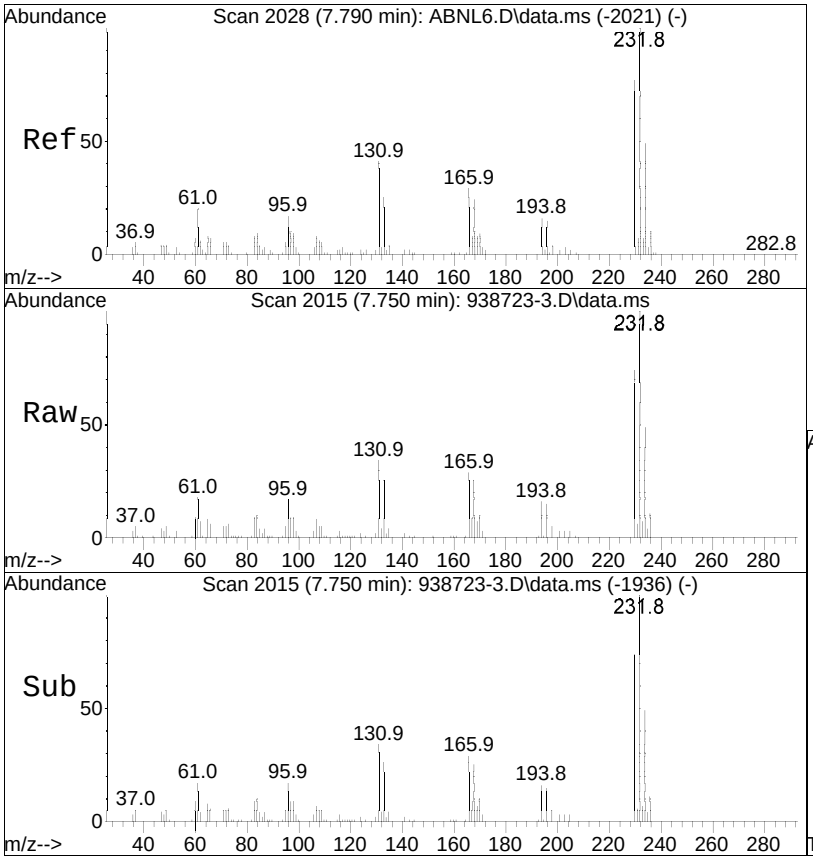


#69
4-Nitrophenol
Concen: 2.95 ug/ml
RT: 7.585 min Scan# 1962
Delta R.T. -0.003 min
Lab File: 938723-3.D
Acq: 25 Jun 2024 11:03 am

Tgt Ion: 65 Resp: 12887

Ion	Ratio	Lower	Upper
65	100		
109	77.0	47.4	71.2#
139	98.9	76.6	115.0

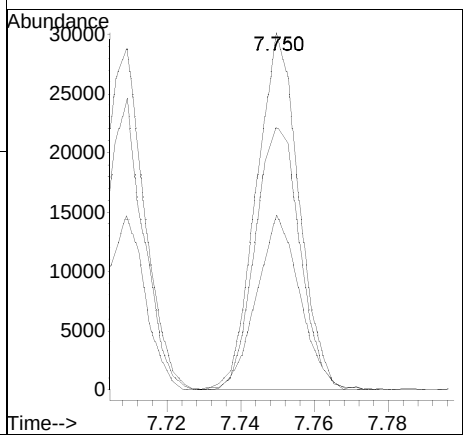


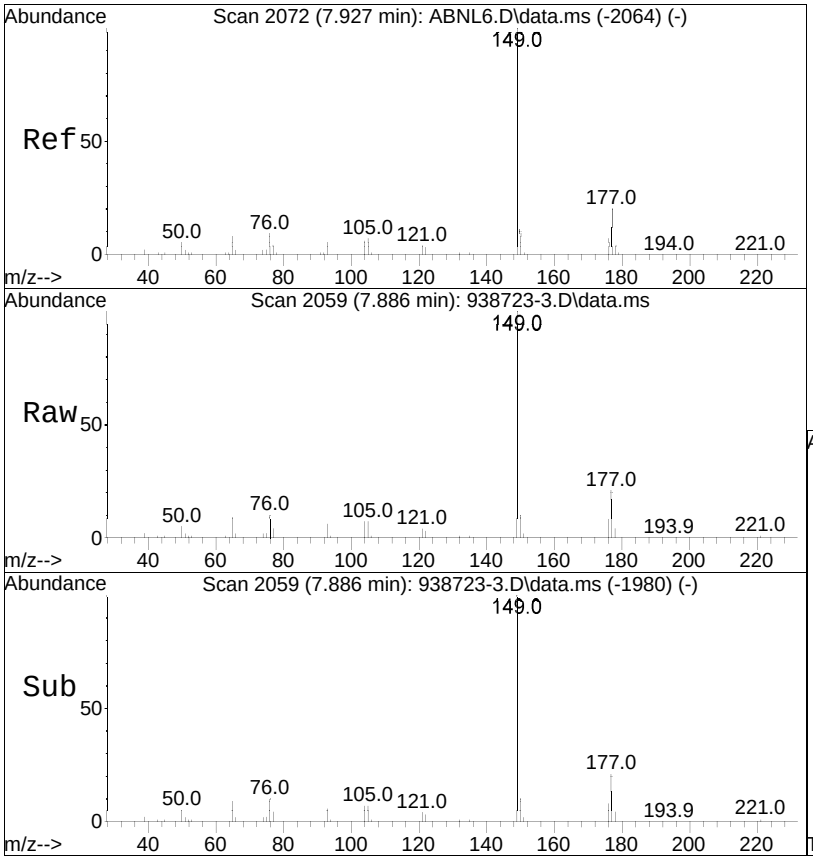


#71
2,3,4,6-Tetrachlorophenol
Concen: 3.45 ug/ml
RT: 7.750 min Scan# 2015
Delta R.T. -0.003 min
Lab File: 938723-3.D
Acq: 25 Jun 2024 11:03 am

Tgt Ion:232 Resp: 24230

Ion	Ratio	Lower	Upper
232	100		
230	77.5	61.8	92.8
234	49.5	36.2	54.2

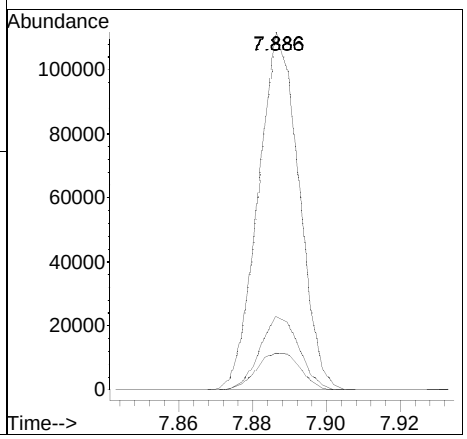


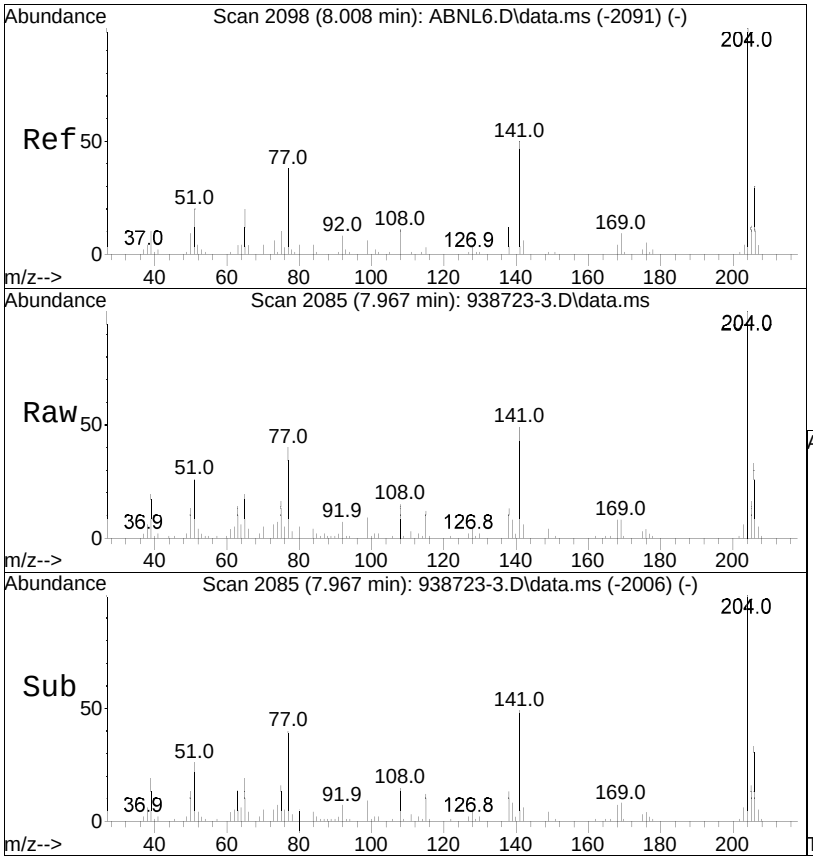


#72
Diethyl phthalate
Concen: 3.14 ug/ml
RT: 7.886 min Scan# 2059
Delta R.T. -0.003 min
Lab File: 938723-3.D
Acq: 25 Jun 2024 11:03 am

Tgt Ion:149 Resp: 84865

Ion	Ratio	Lower	Upper
149	100		
177	20.0	16.1	24.1
150	11.3	9.4	14.2

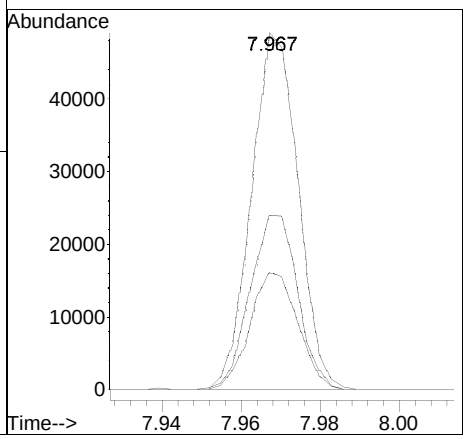


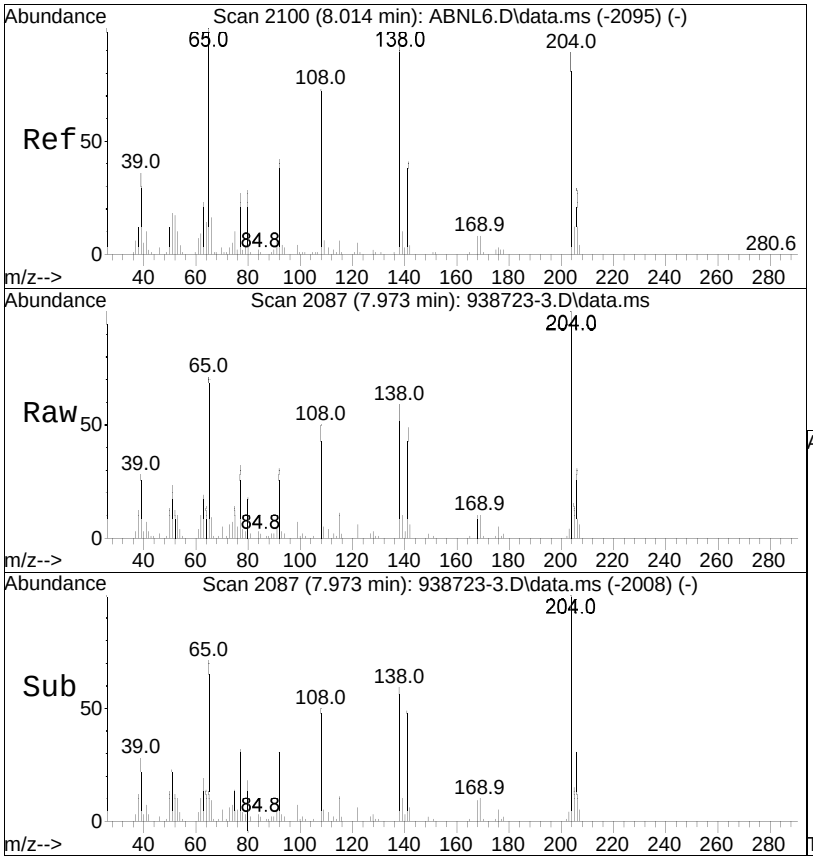


#74
4-Chlorophenyl phenyl ether
Concen: 3.09 ug/ml
RT: 7.967 min Scan# 2085
Delta R.T. -0.003 min
Lab File: 938723-3.D
Acq: 25 Jun 2024 11:03 am

Tgt Ion:204 Resp: 39930

Ion	Ratio	Lower	Upper
204	100		
206	33.9	25.8	38.6
141	49.9	53.6	80.4#

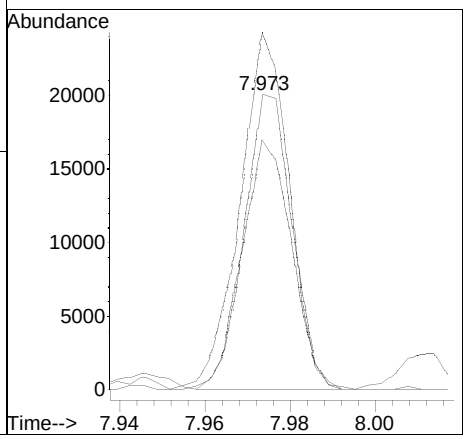


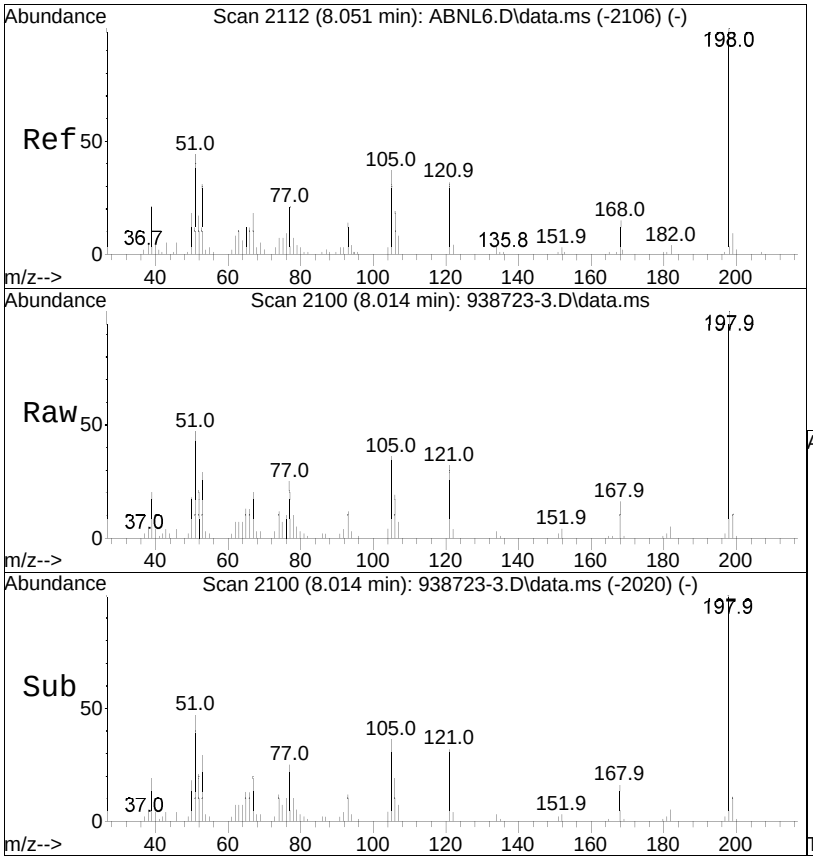


#75
4-Nitroaniline
Concen: 3.05 ug/ml
RT: 7.973 min Scan# 2087
Delta R.T. -0.003 min
Lab File: 938723-3.D
Acq: 25 Jun 2024 11:03 am

Tgt Ion:138 Resp: 15657

Ion	Ratio	Lower	Upper
138	100		
108	87.7	52.1	78.1#
65	123.8	115.0	172.6

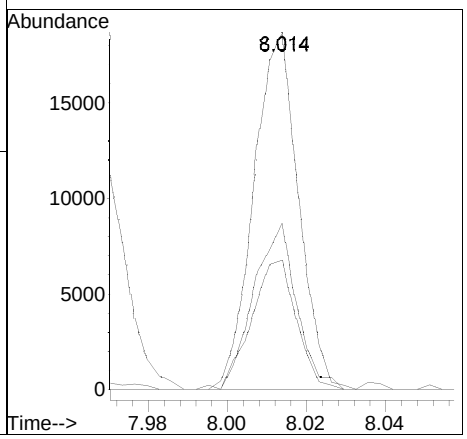


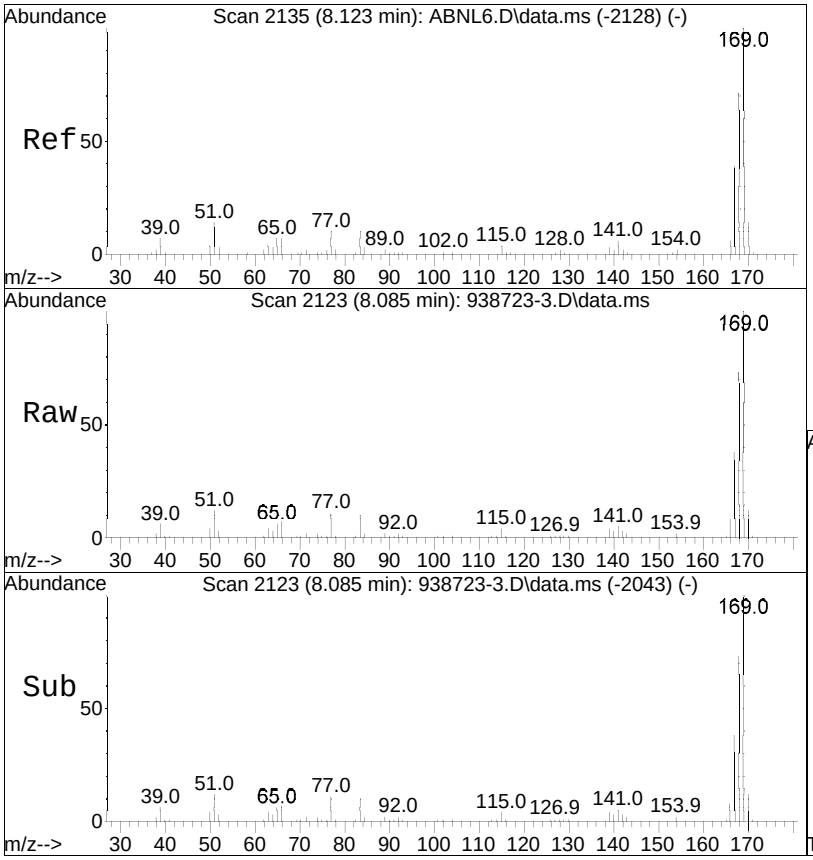


#76
4,6-Dinitro-o-cresol
Concen: 3.27 ug/ml
RT: 8.014 min Scan# 2100
Delta R.T. -0.000 min
Lab File: 938723-3.D
Acq: 25 Jun 2024 11:03 am

Tgt Ion:198 Resp: 14636

Ion	Ratio	Lower	Upper
198	100		
51	45.1	76.0	114.0#
105	36.4	45.6	68.4#

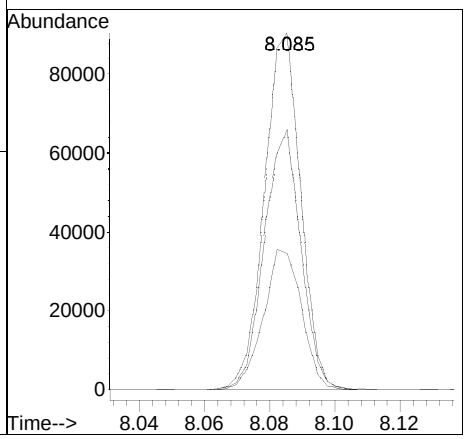


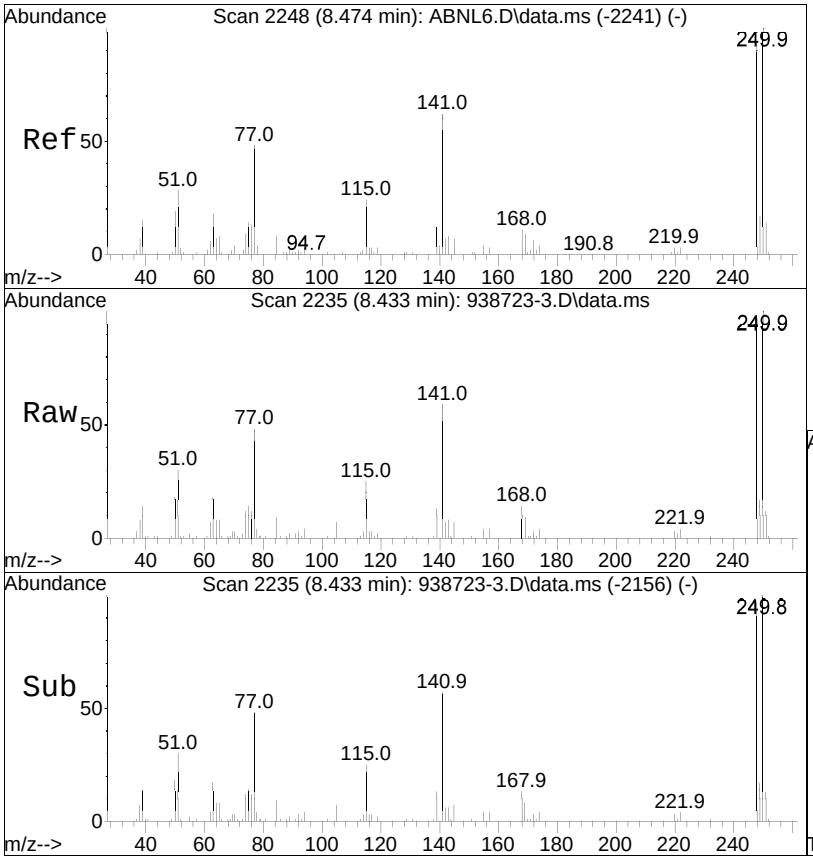


#77
NDPA/DPA
Concen: 3.20 ug/ml
RT: 8.085 min Scan# 2123
Delta R.T. -0.000 min
Lab File: 938723-3.D
Acq: 25 Jun 2024 11:03 am

Tgt Ion:169 Resp: 69873

Ion	Ratio	Lower	Upper
169	100		
168	73.6	54.0	81.0
167	41.7	28.6	42.8

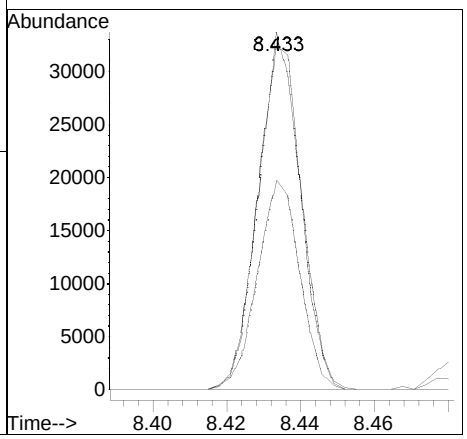


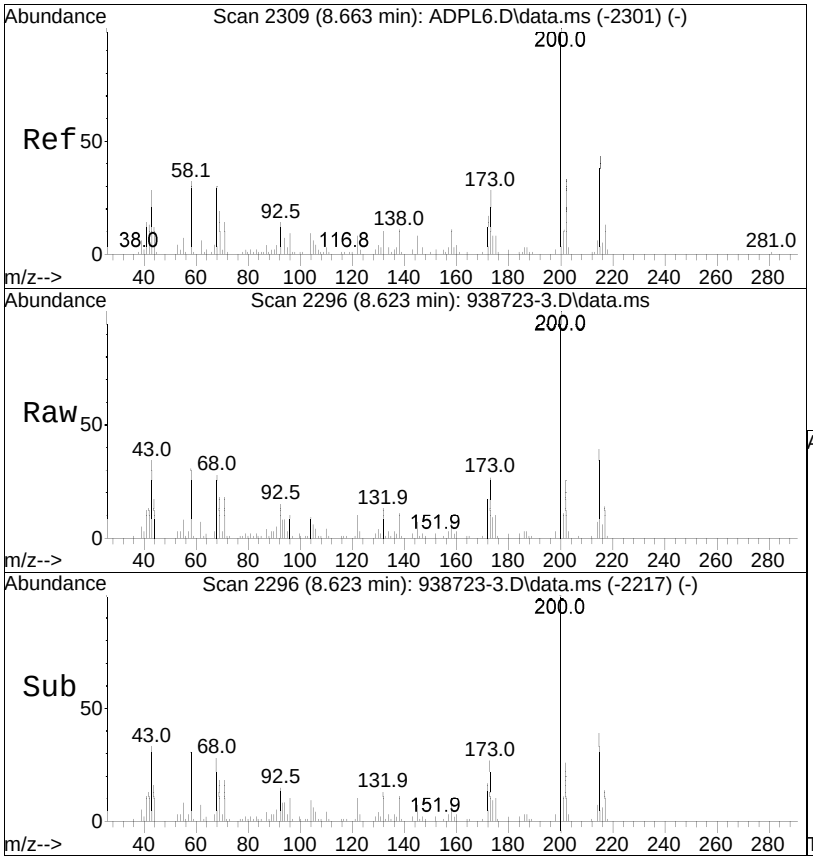


#80
4-Bromophenyl phenyl ether
Concen: 3.13 ug/ml
RT: 8.433 min Scan# 2235
Delta R.T. -0.003 min
Lab File: 938723-3.D
Acq: 25 Jun 2024 11:03 am

Tgt Ion:248 Resp: 26910

Ion	Ratio	Lower	Upper
248	100		
141	58.2	76.6	114.8#
250	97.6	77.3	115.9

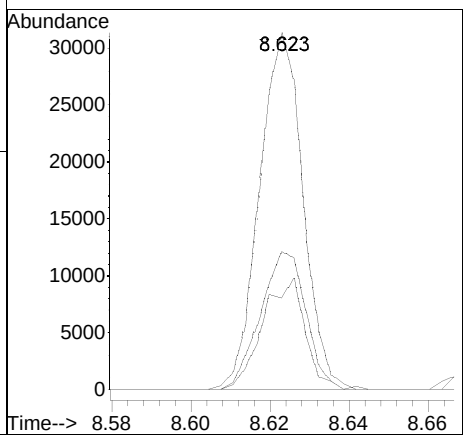


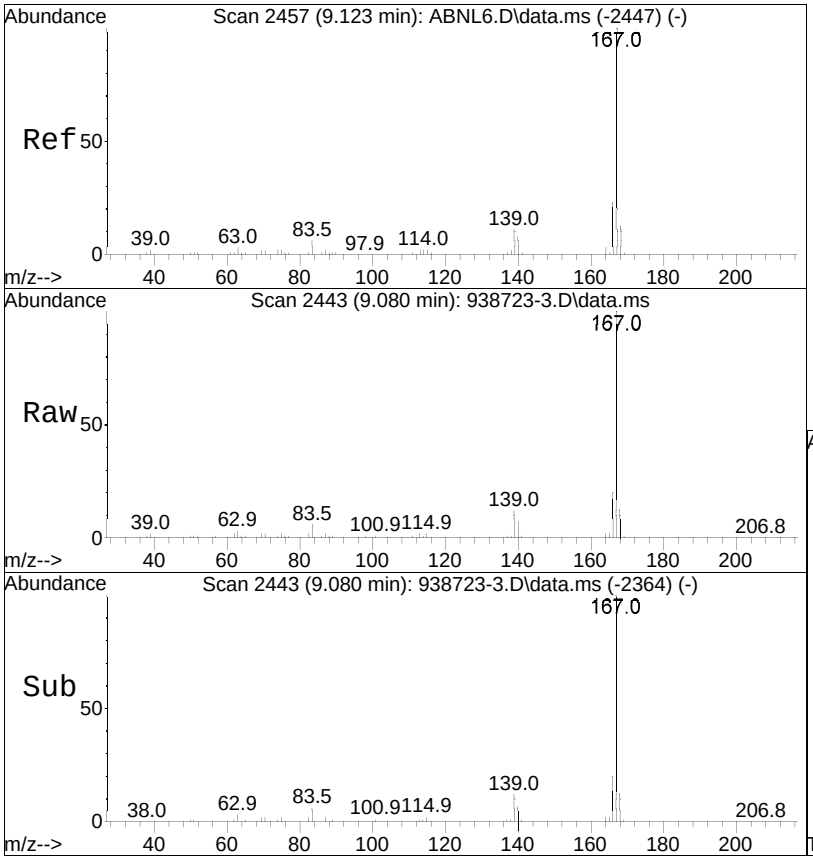


#87
Atrazine
Concen: 3.01 ug/ml
RT: 8.623 min Scan# 2296
Delta R.T. -0.003 min
Lab File: 938723-3.D
Acq: 25 Jun 2024 11:03 am

Tgt Ion:200 Resp: 23749

Ion	Ratio	Lower	Upper
200	100		
202	30.6	25.8	38.6
215	40.8	40.2	60.4

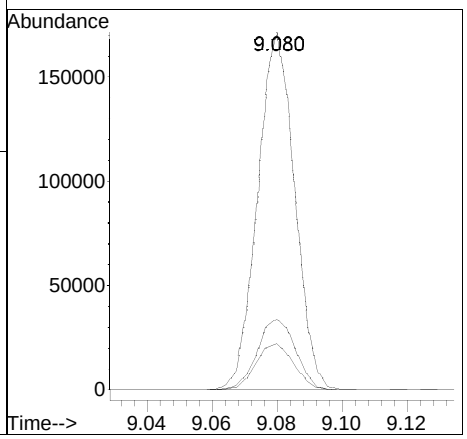


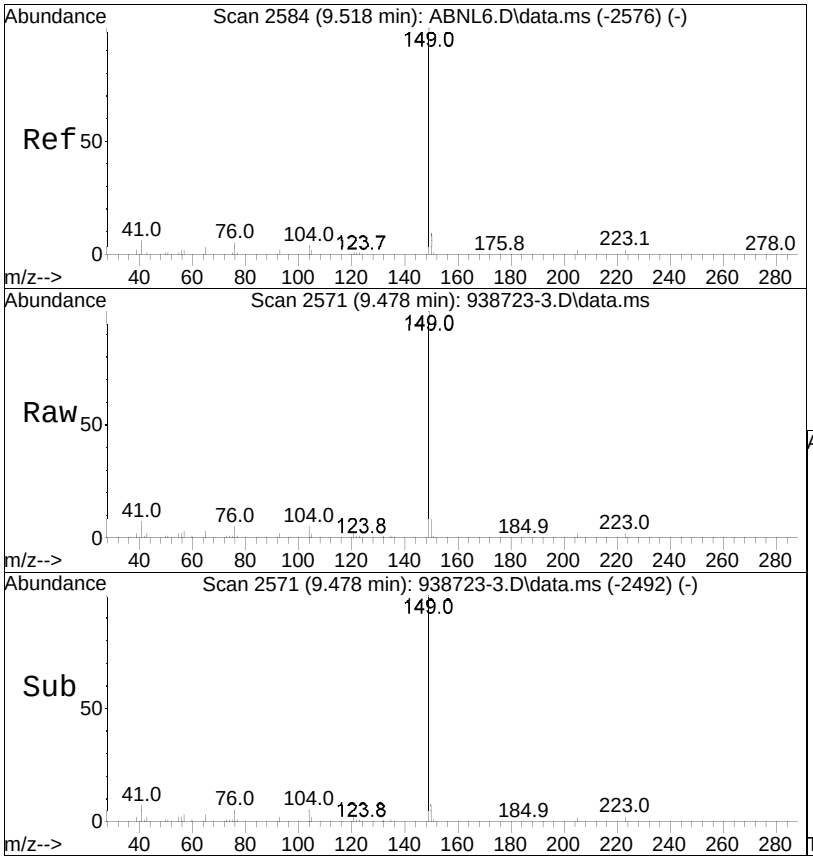


#91
Carbazole
Concen: 3.18 ug/ml
RT: 9.080 min Scan# 2443
Delta R.T. -0.003 min
Lab File: 938723-3.D
Acq: 25 Jun 2024 11:03 am

Tgt Ion:167 Resp: 133684

Ion	Ratio	Lower	Upper
167	100		
168	13.6	10.6	15.8
166	20.7	17.4	26.0

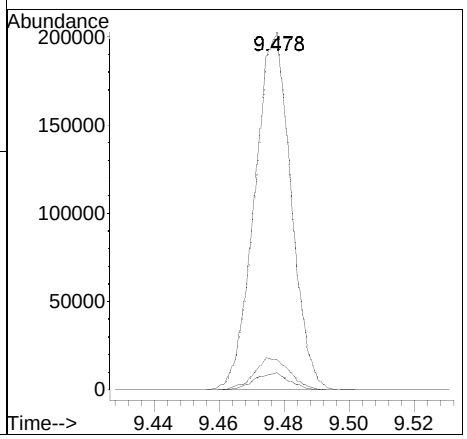


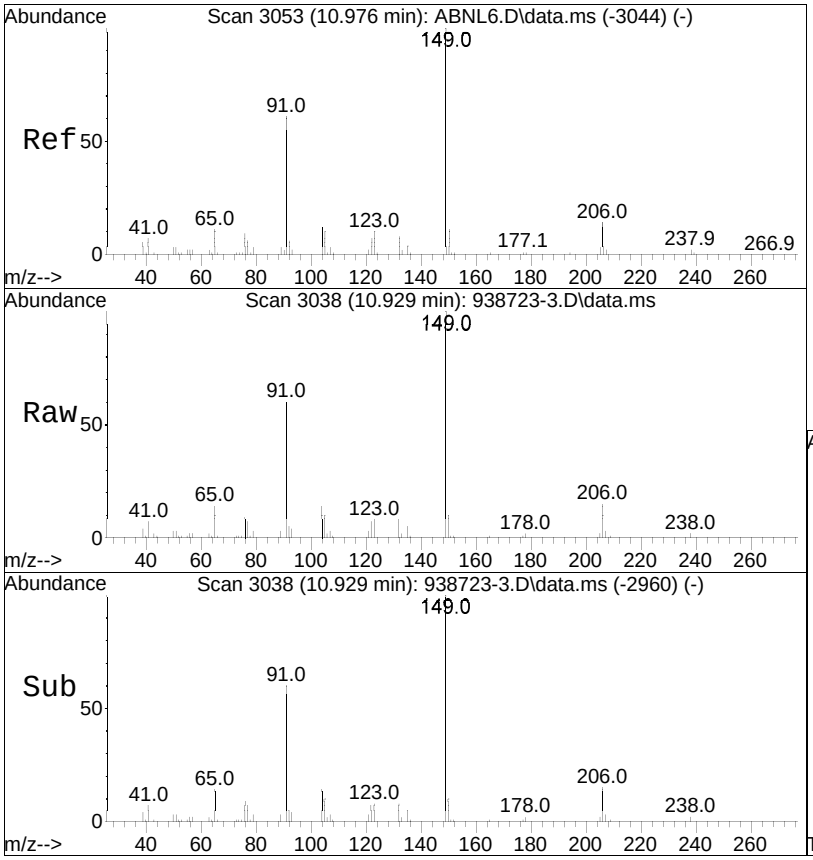


#92
Di-n-butylphthalate
Concen: 3.21 ug/ml
RT: 9.478 min Scan# 2571
Delta R.T. -0.003 min
Lab File: 938723-3.D
Acq: 25 Jun 2024 11:03 am

Tgt Ion:149 Resp: 154787

Ion	Ratio	Lower	Upper
149	100		
150	8.8	7.0	10.6
104	4.6	4.5	6.7

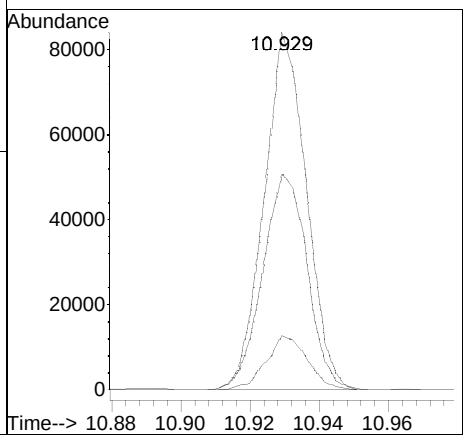


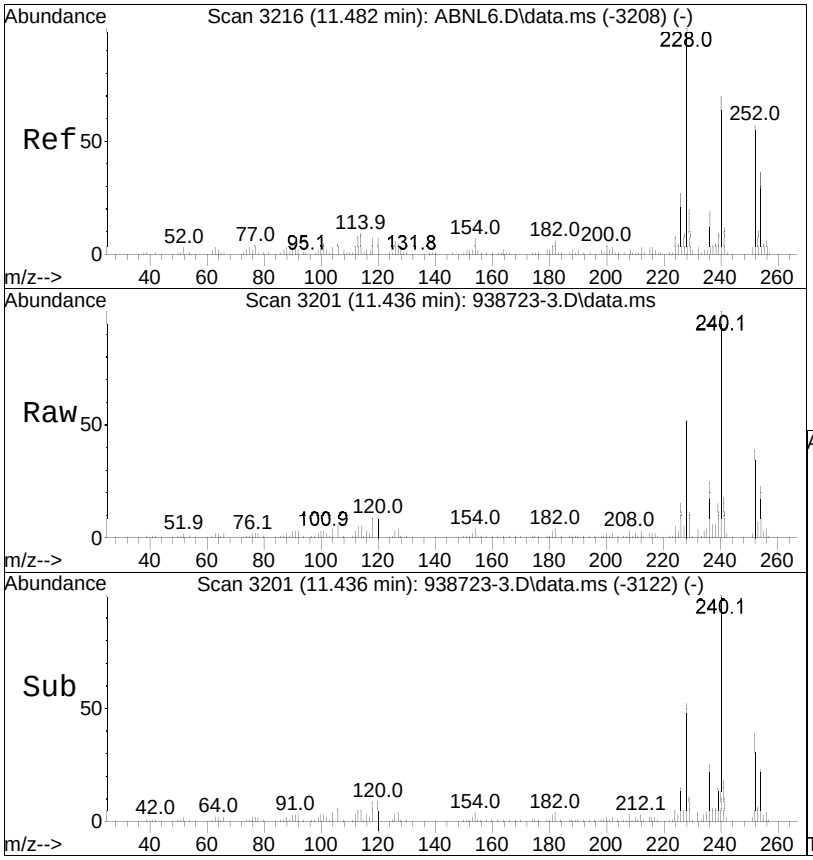


#97
Butyl benzyl phthalate
Concen: 3.26 ug/ml
RT: 10.929 min Scan# 3038
Delta R.T. -0.006 min
Lab File: 938723-3.D
Acq: 25 Jun 2024 11:03 am

Tgt Ion:149 Resp: 70716

Ion	Ratio	Lower	Upper
149	100		
91	63.7	63.3	94.9
206	14.9	13.9	20.9

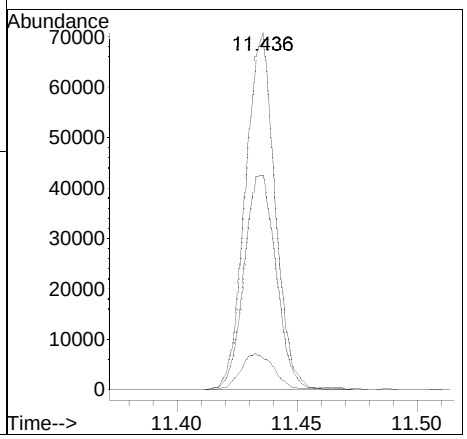


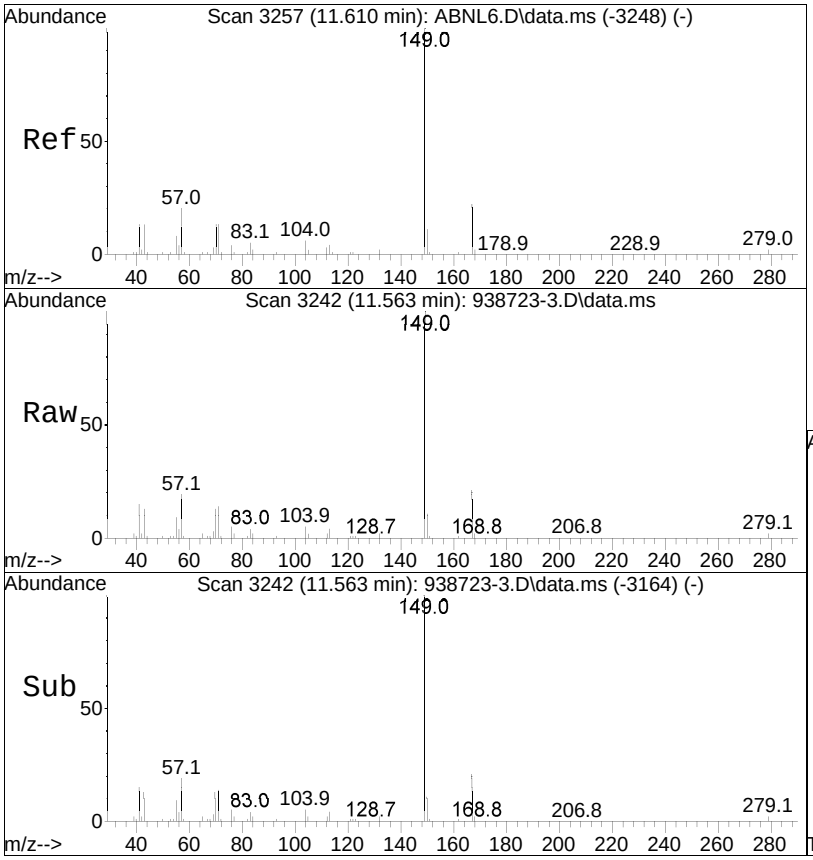


#106
3,3'-Dichlorobenzidine
Concen: 2.75 ug/ml
RT: 11.436 min Scan# 3201
Delta R.T. -0.003 min
Lab File: 938723-3.D
Acq: 25 Jun 2024 11:03 am

Tgt Ion:252 Resp: 60418

Ion	Ratio	Lower	Upper
252	100		
126	11.5	14.5	21.7#
254	64.6	51.2	76.8

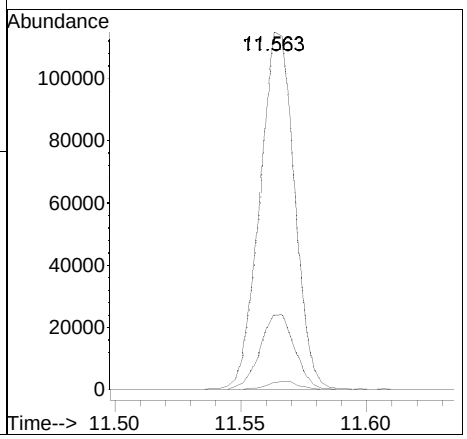


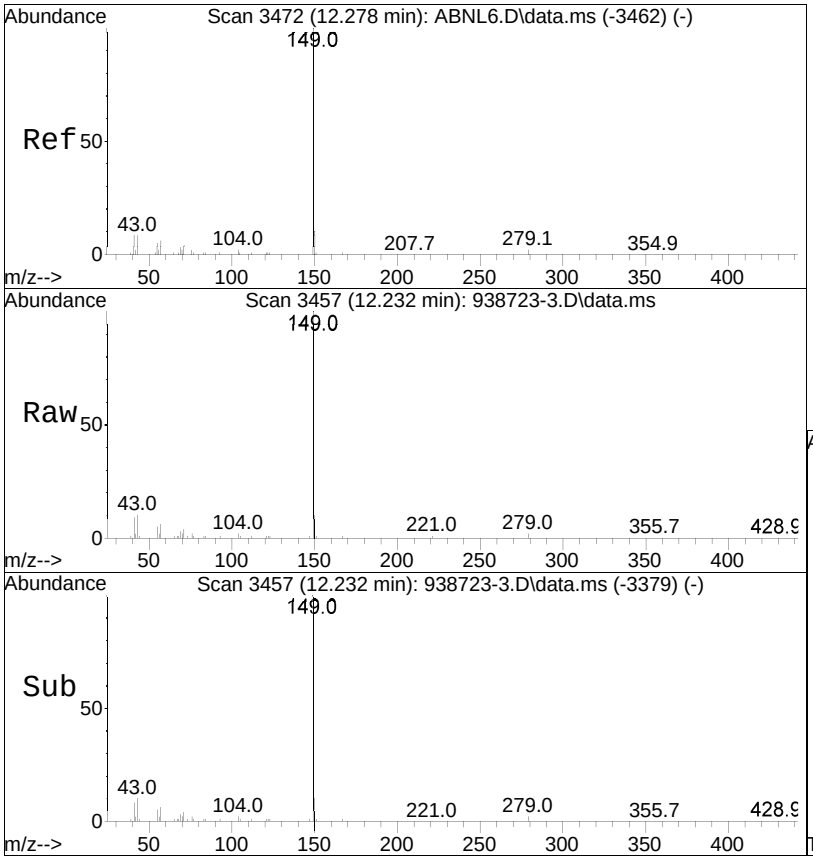


#108
Bis(2-ethylhexyl)phthalate
Concen: 3.26 ug/ml
RT: 11.563 min Scan# 3242
Delta R.T. -0.006 min
Lab File: 938723-3.D
Acq: 25 Jun 2024 11:03 am

Tgt Ion:149 Resp: 108857

Ion	Ratio	Lower	Upper
149	100		
167	21.1	22.1	33.1#
279	1.9	3.0	4.4#

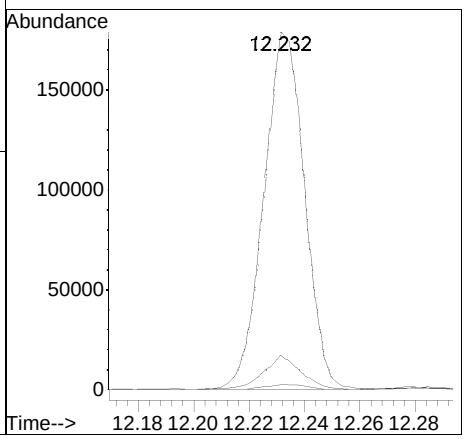




#109
Di-n-octylphthalate
Concen: 3.25 ug/ml
RT: 12.232 min Scan# 3457
Delta R.T. -0.006 min
Lab File: 938723-3.D
Acq: 25 Jun 2024 11:03 am

Tgt Ion:149 Resp: 180899

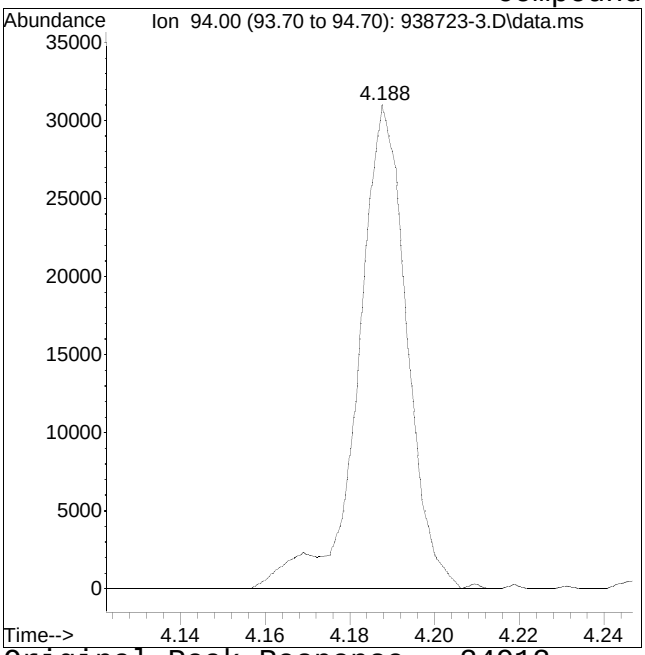
Ion	Ratio	Lower	Upper
149	100		
43	8.9	18.8	28.2#
167	1.2	1.3	1.9#



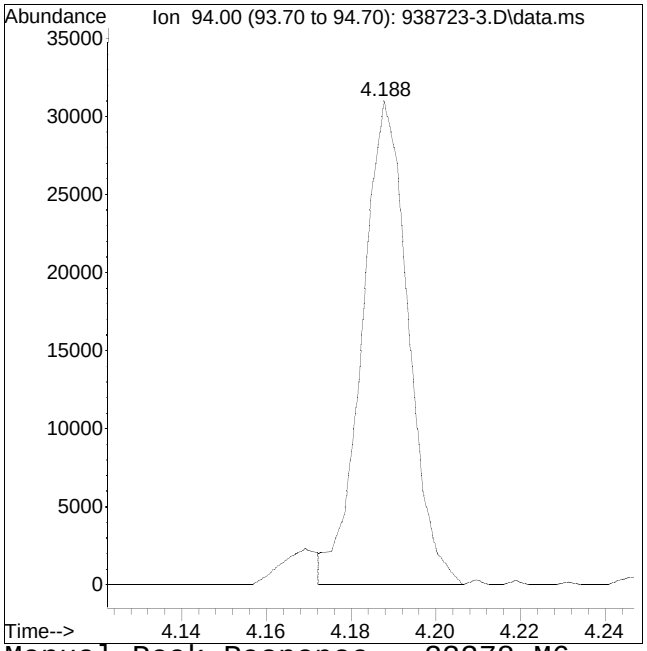
Manual Integration Report

Data Path : I:\8270\Dakota\240625RVT\ QMethod : FS240618RVT_14D_Dakota.m
Data File : 938723-3.D Operator : Dakota:ljg
Date Inj'd : 6/25/2024 11:03 am Instrument : Dakota
Sample : WG1938723-3,32,,gmr Quant Date : 6/25/2024 11:23 am

Compound #8: Phenol



Original Peak Response = 24912



Manual Peak Response = 23378 M6

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\240624RVT\
Data File : 938279-4.D
Acq On : 24 Jun 2024 7:14 pm
Operator : Dakota:jg
Sample : WG1938279-4,32,,HNY
Misc : WG1938645,WG1938279,ical21225
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jun 25 20:13:02 2024
Quant Method : I:\8270\Dakota\240624RVT\FS240618RVT_14D_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Jun 25 20:11:47 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\240624RVT\ABN0624.D
: 2 - I:\8270\Dakota\240624RVT\ADP0624.D
: 3 - I:\8270\Dakota\240624RVT\AP90624.D
Sub List : 8270TCL_combo_REV1 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) IS1_1,4-Dichlorobenzen...	4.505	152	29926	4.000	ug/ml	0.00
Standard Area 1 = 25255			Recovery = 118.50%			
27) IS2_1,4-Dichlorobenzen...	4.505	152	29926	4.000	ug/ml	0.00
Standard Area 3 = 26504			Recovery = 112.91%			
35) IS1_Naphthalene-d8	5.739	136	102399	4.000	ug/ml	# 0.00
Standard Area 1 = 92102			Recovery = 111.18%			
55) IS2_Naphthalene-d8	5.739	136	102399	4.000	ug/ml	# 0.00
Standard Area 3 = 100155			Recovery = 102.24%			
63) IS1_Acenaphthene-d10	7.433	164	67529	4.000	ug/ml	0.00
Standard Area 1 = 69151			Recovery = 97.65%			
83) IS2_Acenaphthene-d10	7.433	164	67529	4.000	ug/ml	0.00
Standard Area 3 = 69129			Recovery = 97.69%			
86) IS3_Acenaphthene-d10	7.433	164	67529	4.000	ug/ml	0.00
Standard Area 2 = 63201			Recovery = 106.85%			
88) IS1_Phenanthrene-d10	8.856	188	147381	4.000	ug/ml	0.00
Standard Area 1 = 156078			Recovery = 94.43%			
100) IS3_Phenanthrene-d10	8.856	188	147381	4.000	ug/ml	0.00
Standard Area 2 = 157977			Recovery = 93.29%			
104) IS1_Chrysene-d12	11.458	240	141221	4.000	ug/ml	0.00
Standard Area 1 = 161664			Recovery = 87.35%			
113) IS1_Perylene-d12	12.903	264	163885	4.000	ug/ml	0.00
Standard Area 1 = 190313			Recovery = 86.11%			
System Monitoring Compounds						
4) 2-Fluorophenol	3.234	112	21796	2.834	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 141.70%#			
7) Phenol-d6	4.194	99	23612	2.433	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 121.65%#			
19) Nitrobenzene-d5	5.049	82	15239	1.504	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 150.40%#			
46) 2-Fluorobiphenyl	6.808	172	42503	1.656	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 165.60%#			
79) 2,4,6-Tribromophenol	8.197	330	15467	3.504	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 175.20%#			
96) 4-Terphenyl-d14	10.429	244	64085	1.672	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 167.20%#			

Data Path : I:\8270\Dakota\240624RVT\
Data File : 938279-4.D
Acq On : 24 Jun 2024 7:14 pm
Operator : Dakota:jg
Sample : WG1938279-4,32,,HNY
Misc : WG1938645,WG1938279,ical21225
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jun 25 20:13:02 2024
Quant Method : I:\8270\Dakota\240624RVT\FS240618RVT_14D_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Jun 25 20:11:47 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\240624RVT\ABN0624.D
: 2 - I:\8270\Dakota\240624RVT\ADP0624.D
: 3 - I:\8270\Dakota\240624RVT\AP90624.D
Sub List : 8270TCL_combo_REV1 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Target Compounds						Qvalue
6) 2-Chlorophenol	4.300	128	28271	3.285	ug/ml#	88
8) Phenol	4.206	94	28412	2.512	ug/ml	98
9) Bis(2-chloroethyl)ether	4.272	93	22819	3.077	ug/ml	96
14) Bis(2-chloroisopropyl)...	4.803	45	33193	3.002	ug/ml#	44
15) 2-Methylphenol	4.797	108	24151	3.108	ug/ml	97
17) n-Nitrosodi-n-propylamine	4.931	70	20123	2.949	ug/ml#	87
18) 3-Methylphenol/4-Methy...	4.952	108	25731	3.140	ug/ml	97
20) Nitrobenzene	5.064	77	30678	3.159	ug/ml	91
21) Isophorone	5.307	82	51160	3.006	ug/ml#	94
22) 2-Nitrophenol	5.381	139	15239	3.164	ug/ml	90
23) 2,4-Dimethylphenol	5.462	107	21985	2.679	ug/ml	96
24) Bis(2-chloroethoxy)met...	5.546	93	32546	3.111	ug/ml#	94
25) 2,4-Dichlorophenol	5.621	162	31540	3.407	ug/ml#	90
28) Benzaldehyde	4.070	105	22472	2.899	ug/ml	97
29) Acetophenone	4.909	105	38658	2.917	ug/ml#	79
38) 4-Chloroaniline	5.832	65	10086	3.104	ug/ml	95
40) p-Chloro-m-cresol	6.332	107	26247	3.525	ug/ml	95
43) Hexachlorocyclopentadiene	6.609	237	21031	2.832	ug/ml	98
44) 2,4,6-Trichlorophenol	6.724	196	26465	3.492	ug/ml	96
45) 2,4,5-Trichlorophenol	6.752	196	29009	3.581	ug/ml	98
48) 2-Nitroaniline	7.013	138	18281	3.226	ug/ml	86
51) Dimethyl phthalate	7.215	163	82626	3.126	ug/ml#	97
53) 2,6-Dinitrotoluene	7.255	165	16885	3.236	ug/ml#	77
60) Caprolactam	6.127	55	5753	1.680	ug/ml#	50
61) 1,2,4,5-Tetrachloroben...	6.606	216	37344	2.920	ug/ml#	95
62) Biphenyl	6.895	154	81649	2.984	ug/ml	98
64) 3-Nitroaniline	7.408	138	15786	3.150	ug/ml#	95
66) 2,4-Dinitrophenol	7.507	184	10311	2.977	ug/ml#	85
67) Dibenzofuran	7.632	168	104793	3.262	ug/ml#	86
68) 2,4-Dinitrotoluene	7.641	165	23544	3.450	ug/ml	90
69) 4-Nitrophenol	7.600	65	12287	2.927	ug/ml#	81
71) 2,3,4,6-Tetrachlorophenol	7.768	232	23851	3.525	ug/ml	97
72) Diethyl phthalate	7.902	149	82651	3.173	ug/ml	97
74) 4-Chlorophenyl phenyl ...	7.986	204	41741	3.352	ug/ml#	84
75) 4-Nitroaniline	7.992	138	16118	3.266	ug/ml#	79
76) 4,6-Dinitro-o-cresol	8.029	198	14331	3.329	ug/ml#	59

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\240624RVT\
Data File : 938279-4.D
Acq On : 24 Jun 2024 7:14 pm
Operator : Dakota:jg
Sample : WG1938279-4,32,,HNY
Misc : WG1938645,WG1938279,ical21225
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jun 25 20:13:02 2024
Quant Method : I:\8270\Dakota\240624RVT\FS240618RVT_14D_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Jun 25 20:11:47 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\240624RVT\ABN0624.D
: 2 - I:\8270\Dakota\240624RVT\ADP0624.D
: 3 - I:\8270\Dakota\240624RVT\AP90624.D
Sub List : 8270TCL_combo_REV1 - TCL/CT/MA

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
77)	NDPA/DPA	8.101	169	68232	3.251	ug/ml	91
80)	4-Bromophenyl phenyl e...	8.452	248	26324	3.178	ug/ml#	79
87)	Atrazine	8.639	200	22791	3.000	ug/ml	93
91)	Carbazole	9.099	167	124909	3.431	ug/ml	99
92)	Di-n-butylphthalate	9.493	149	145658	3.485	ug/ml#	98
97)	Butyl benzyl phthalate	10.948	149	65285	3.476	ug/ml#	83
106)	3,3'-Dichlorobenzidine	11.454	252	52261	2.990	ug/ml#	94
108)	Bis(2-ethylhexyl)phtha...	11.582	149	96069	3.627	ug/ml#	90
109)	Di-n-octylphthalate	12.253	149	160375	3.631	ug/ml#	72

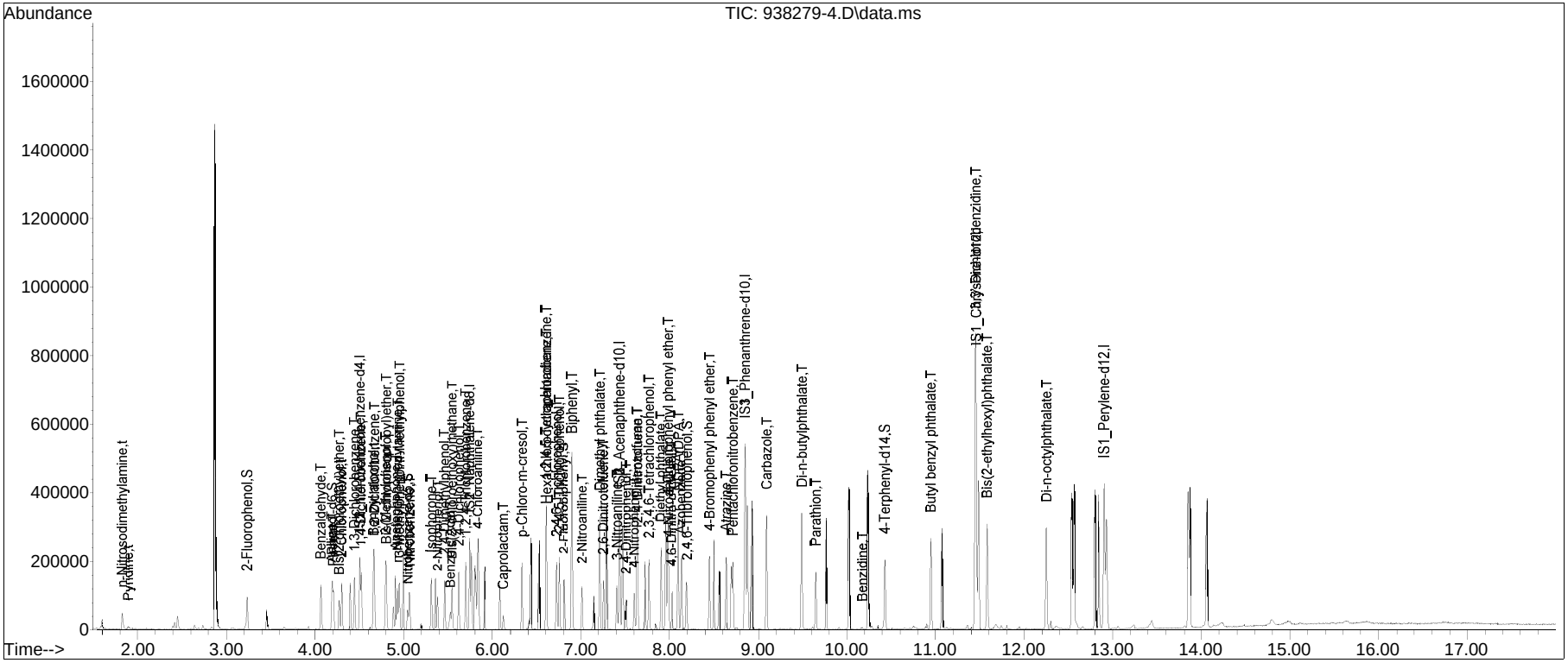
(#) = qualifier out of range (m) = manual integration (+) = signals summed

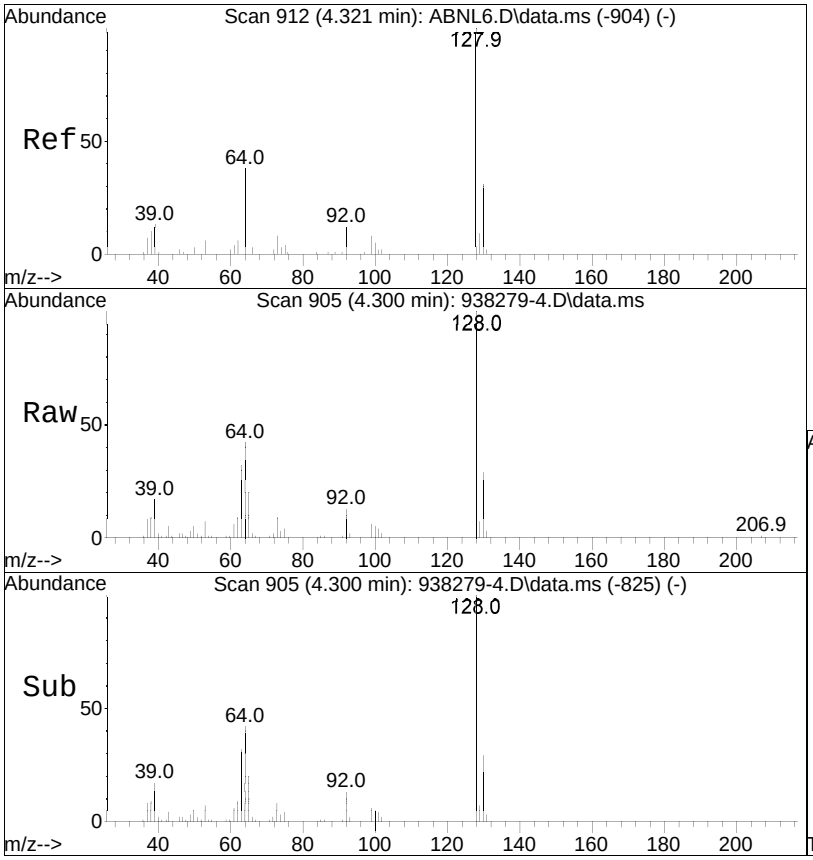
Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\240624RVT\
Data File : 938279-4.D
Acq On : 24 Jun 2024 7:14 pm
Operator : Dakota:jg
Sample : WG1938279-4,32,,HNY
Misc : WG1938645,WG1938279,ical21225
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jun 25 20:13:02 2024
Quant Method : I:\8270\Dakota\240624RVT\FS240618RVT_14D_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Jun 25 20:11:47 2024
Response via : Initial Calibration

Sub List : 8270TCL_combo_REV1 - TCL/CT/MAP90624.D•

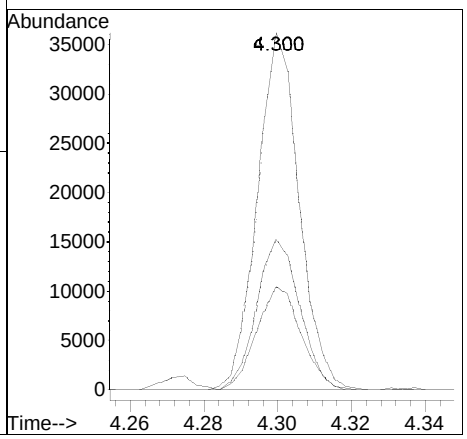


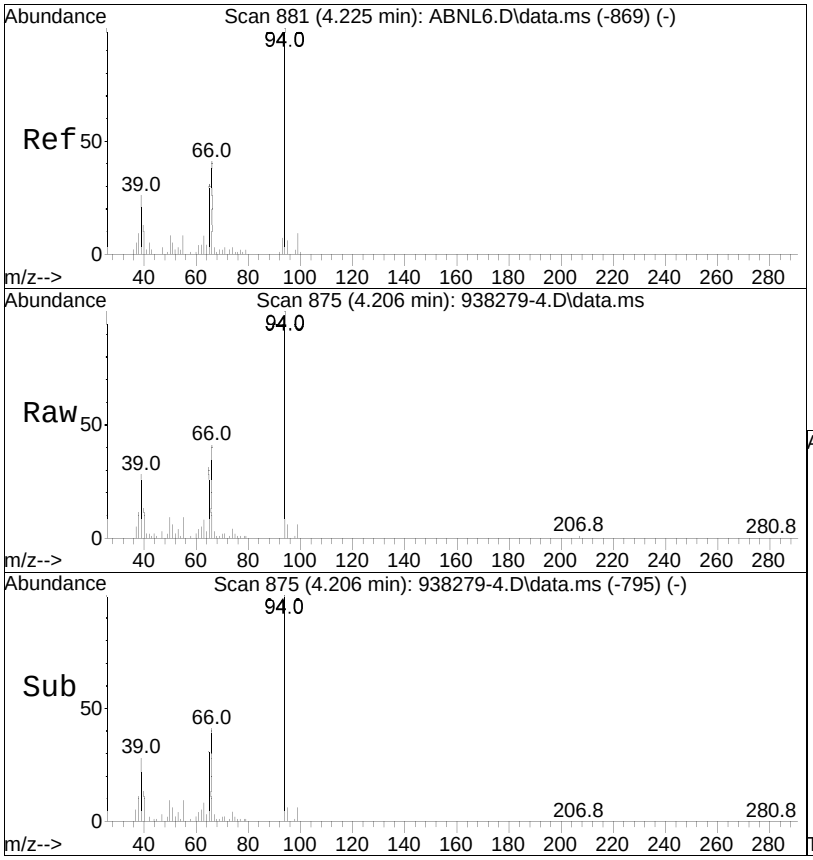


#6
2-Chlorophenol
Concen: 3.29 ug/ml
RT: 4.300 min Scan# 905
Delta R.T. 0.000 min
Lab File: 938279-4.D
Acq: 24 Jun 2024 7:14 pm

Tgt Ion:128 Resp: 28271

Ion	Ratio	Lower	Upper
128	100		
64	43.7	45.1	67.7#
130	31.2	26.2	39.4

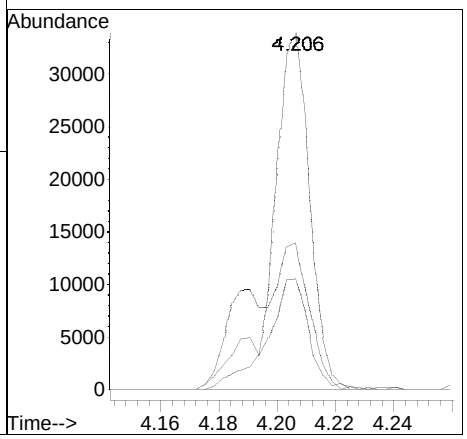


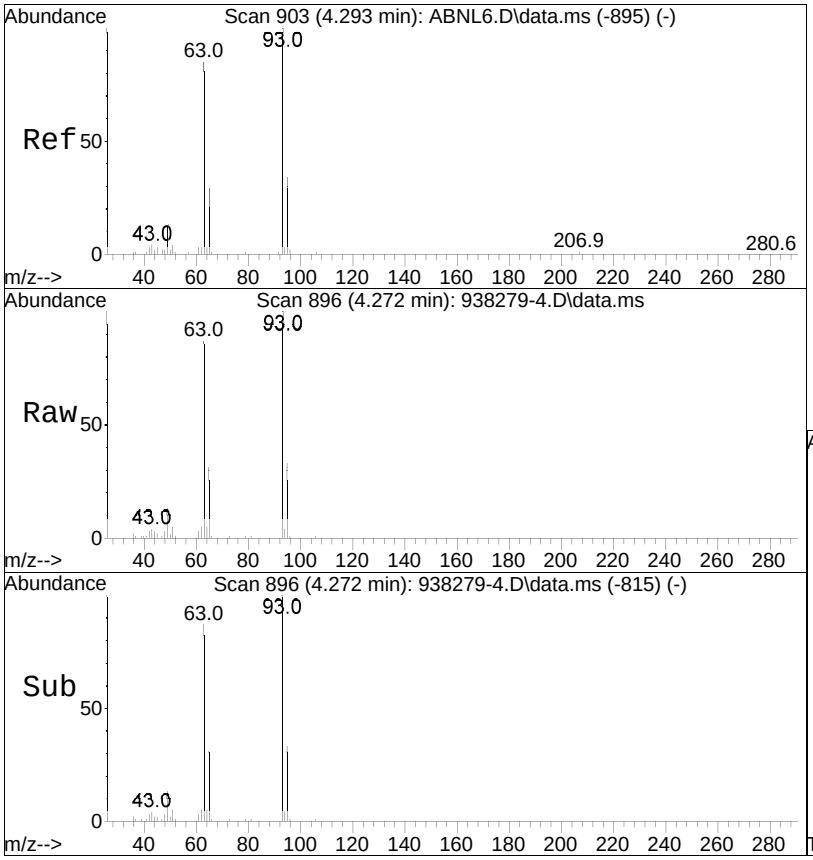


#8
Phenol
Concen: 2.51 ug/ml
RT: 4.206 min Scan# 875
Delta R.T. 0.000 min
Lab File: 938279-4.D
Acq: 24 Jun 2024 7:14 pm

Tgt Ion: 94 Resp: 28412

Ion	Ratio	Lower	Upper
94	100		
65	30.1	26.0	39.0
66	42.3	33.8	50.8

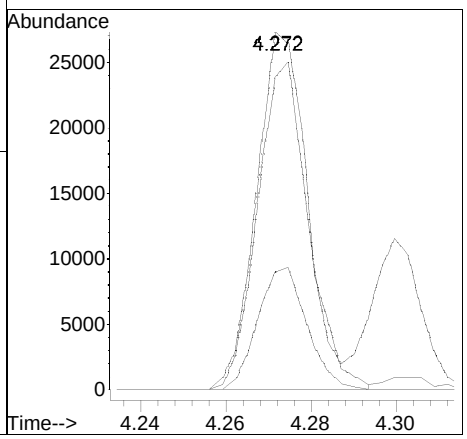


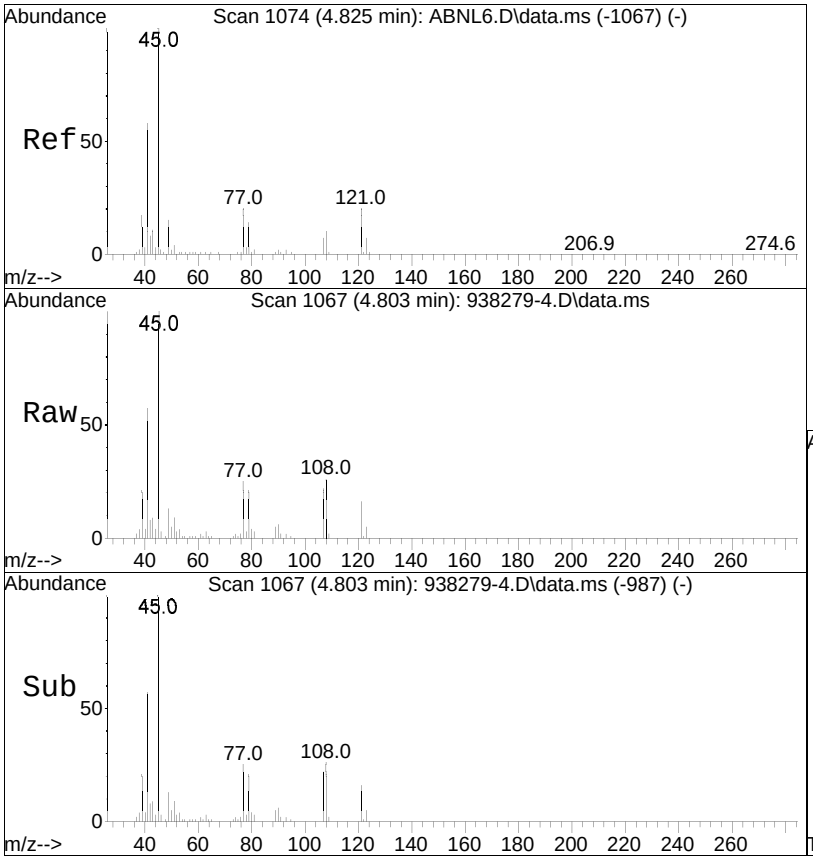


#9
Bis(2-chloroethyl)ether
Concen: 3.08 ug/ml
RT: 4.272 min Scan# 896
Delta R.T. 0.000 min
Lab File: 938279-4.D
Acq: 24 Jun 2024 7:14 pm

Tgt Ion: 93 Resp: 22819

Ion	Ratio	Lower	Upper
93	100		
63	88.3	74.6	111.8
95	32.7	25.9	38.9

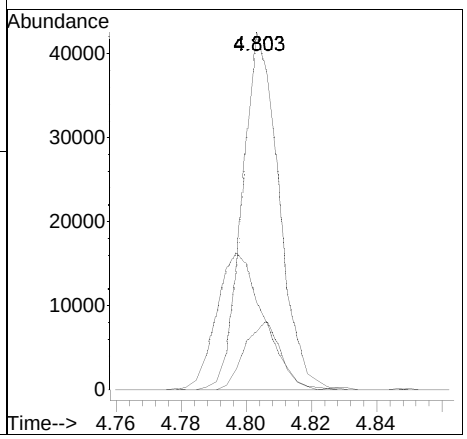


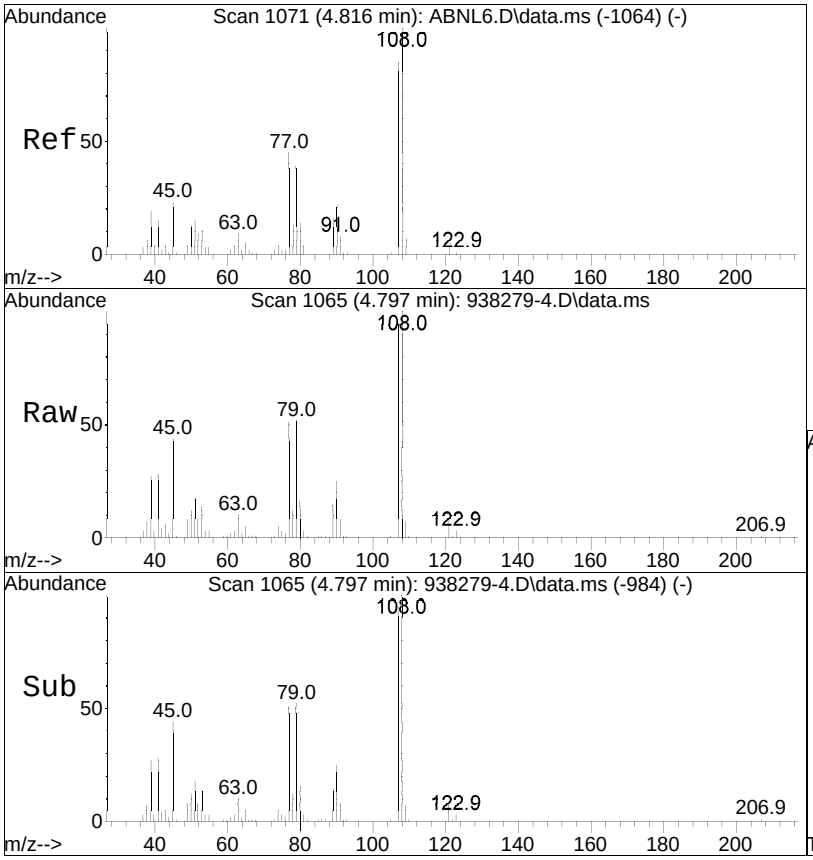


#14
Bis(2-chloroisopropyl)ether
Concen: 3.00 ug/ml
RT: 4.803 min Scan# 1067
Delta R.T. 0.000 min
Lab File: 938279-4.D
Acq: 24 Jun 2024 7:14 pm

Tgt Ion: 45 Resp: 33193

Ion	Ratio	Lower	Upper
45	100		
121	18.8	9.8	14.6#
77	49.2	6.1	9.1#

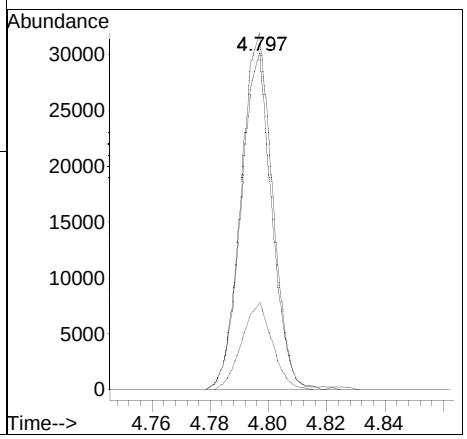


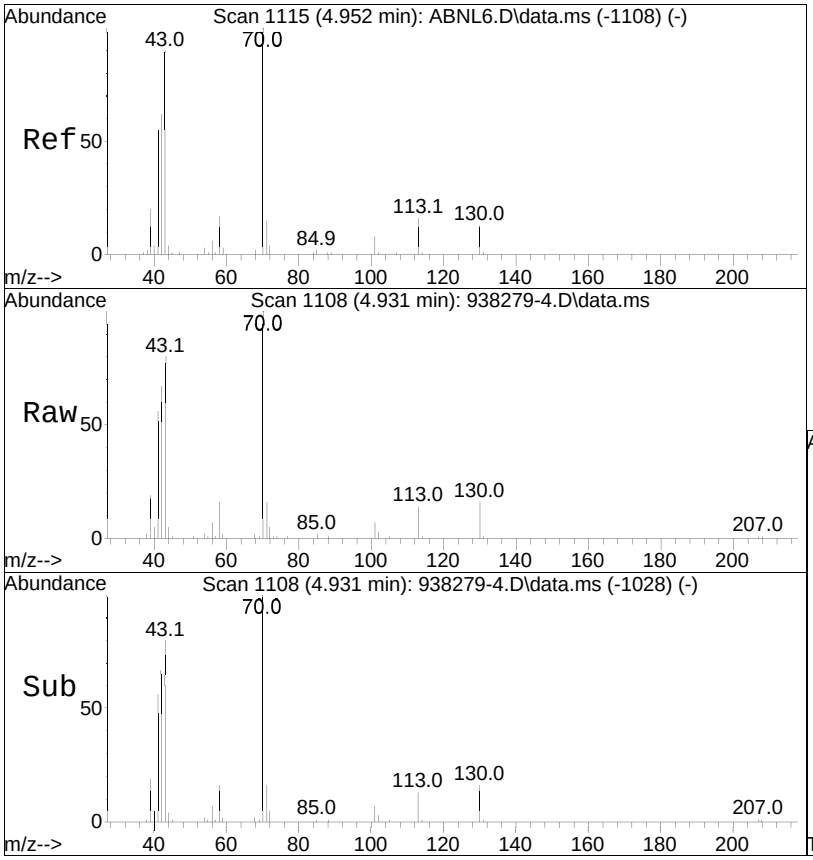


#15
2-Methylphenol
Concen: 3.11 ug/ml
RT: 4.797 min Scan# 1065
Delta R.T. 0.003 min
Lab File: 938279-4.D
Acq: 24 Jun 2024 7:14 pm

Tgt Ion:108 Resp: 24151

Ion	Ratio	Lower	Upper
108	100		
107	91.6	70.7	106.1
90	23.6	18.7	28.1

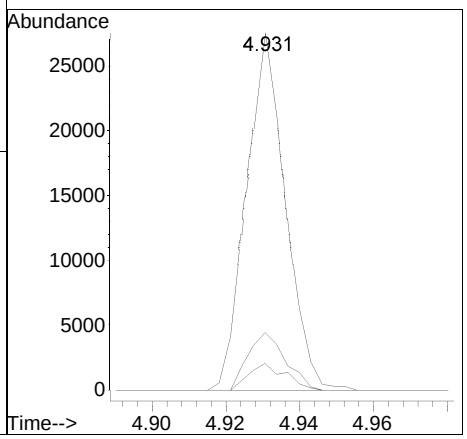


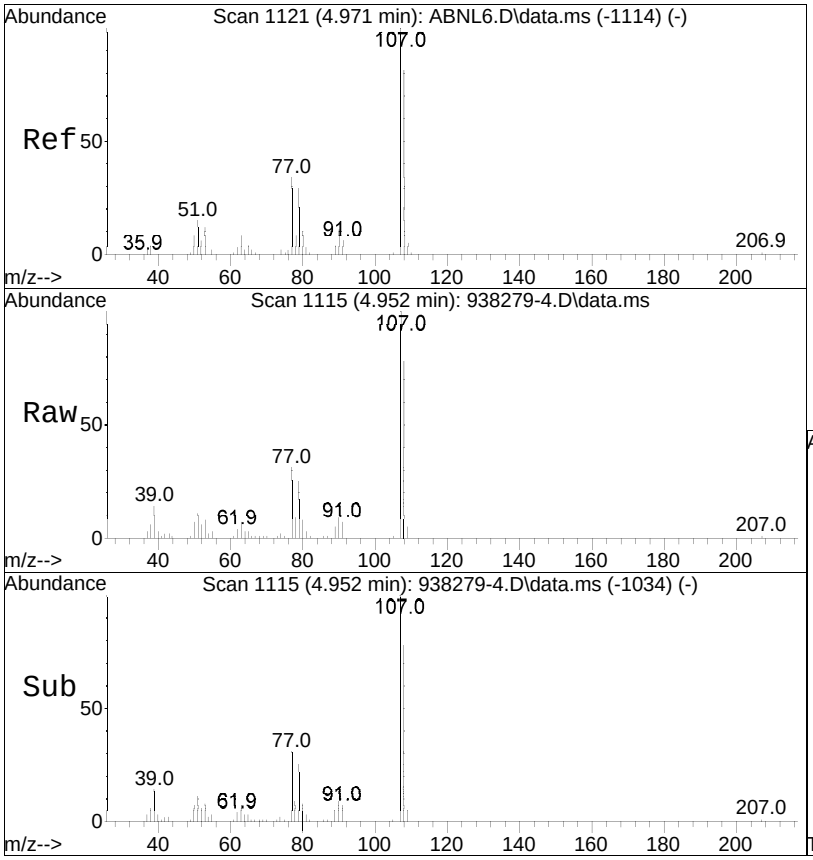


#17
n-Nitrosodi-n-propylamine
Concen: 2.95 ug/ml
RT: 4.931 min Scan# 1108
Delta R.T. 0.000 min
Lab File: 938279-4.D
Acq: 24 Jun 2024 7:14 pm

Tgt Ion: 70 Resp: 20123

Ion	Ratio	Lower	Upper
70	100		
130	15.4	18.2	27.4#
101	7.0	7.8	11.8#

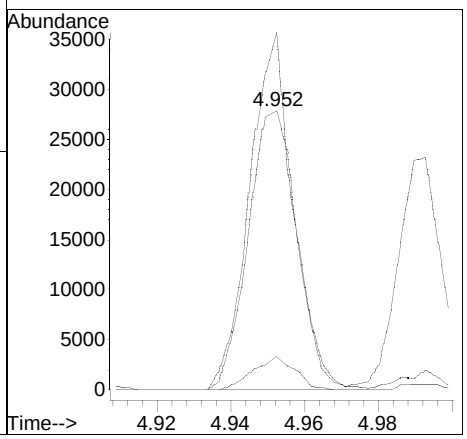


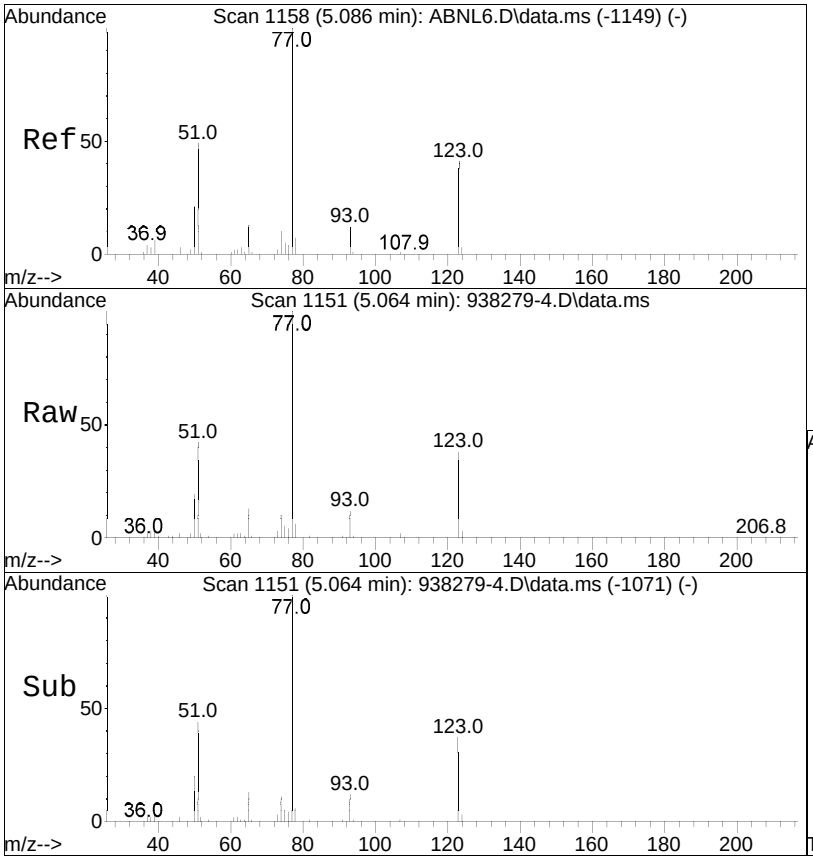


#18
3-Methylphenol/4-Methylphenol
Concen: 3.14 ug/ml
RT: 4.952 min Scan# 1115
Delta R.T. 0.003 min
Lab File: 938279-4.D
Acq: 24 Jun 2024 7:14 pm

Tgt Ion:108 Resp: 25731

Ion	Ratio	Lower	Upper
108	100		
107	113.9	88.6	132.8
90	10.3	8.8	13.2

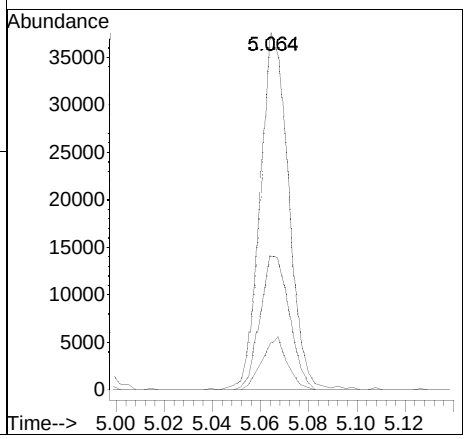


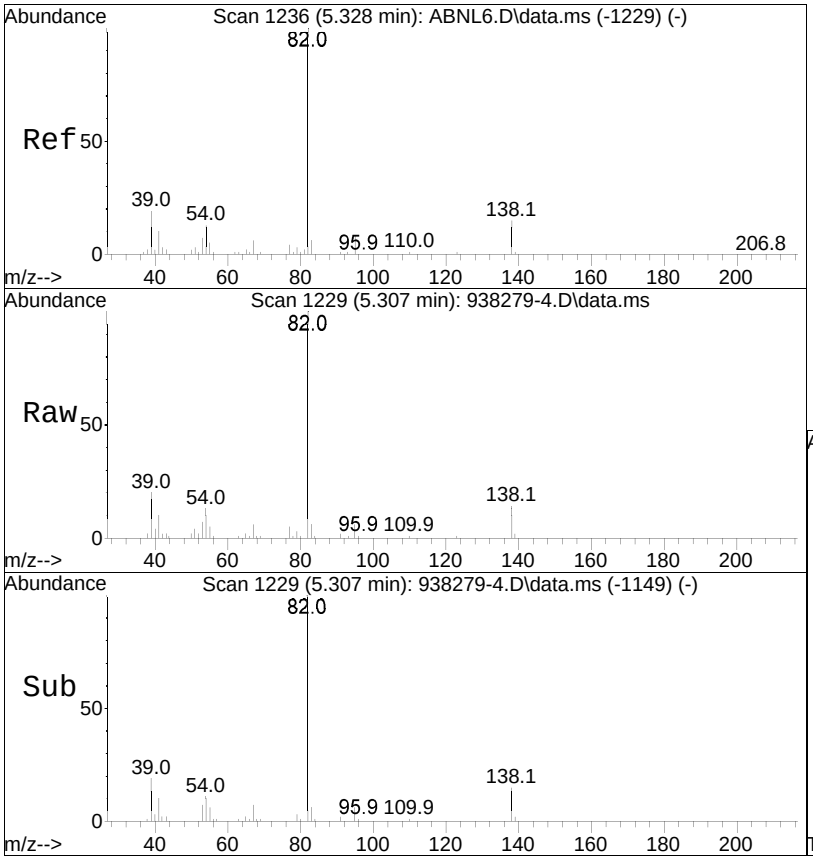


#20
Nitrobenzene
Concen: 3.16 ug/ml
RT: 5.064 min Scan# 1151
Delta R.T. 0.000 min
Lab File: 938279-4.D
Acq: 24 Jun 2024 7:14 pm

Tgt Ion: 77 Resp: 30678

Ion	Ratio	Lower	Upper
77	100		
123	38.6	36.3	54.5
65	13.1	11.6	17.4

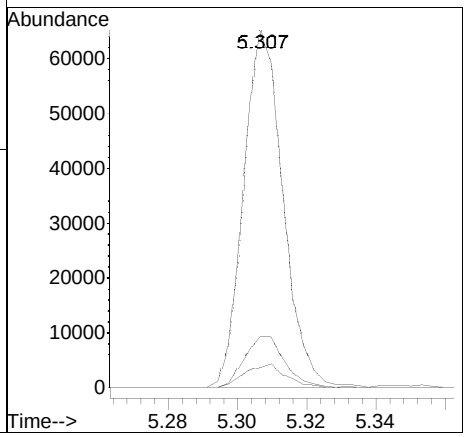


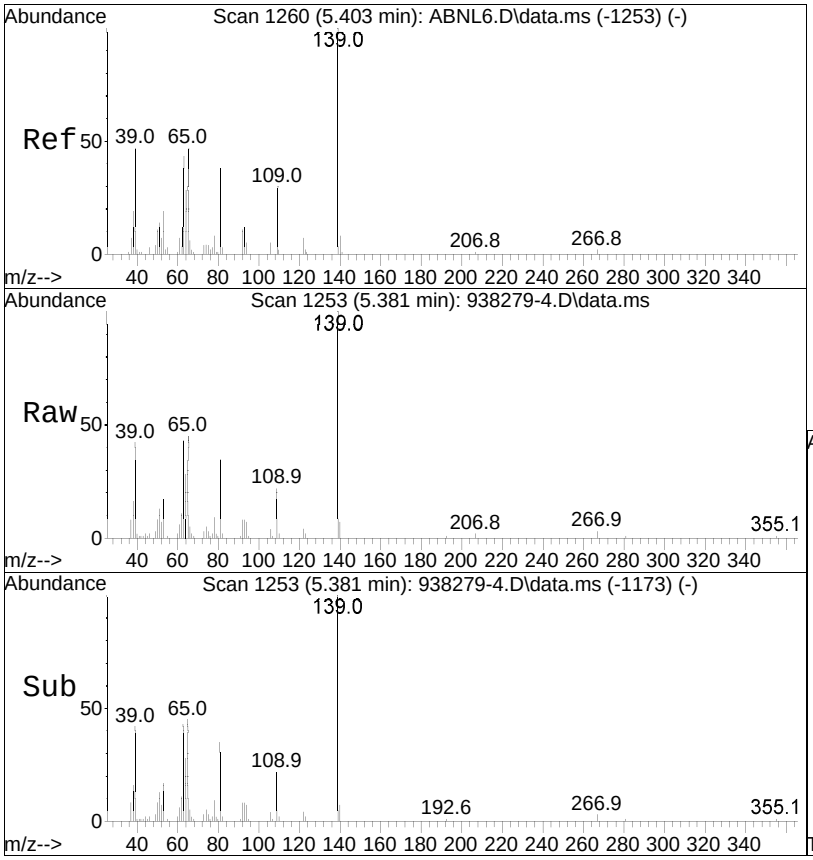


#21
Isophorone
Concen: 3.01 ug/ml
RT: 5.307 min Scan# 1229
Delta R.T. 0.000 min
Lab File: 938279-4.D
Acq: 24 Jun 2024 7:14 pm

Tgt Ion: 82 Resp: 51160

Ion	Ratio	Lower	Upper
82	100		
138	14.6	14.7	22.1#
95	6.8	5.2	7.8

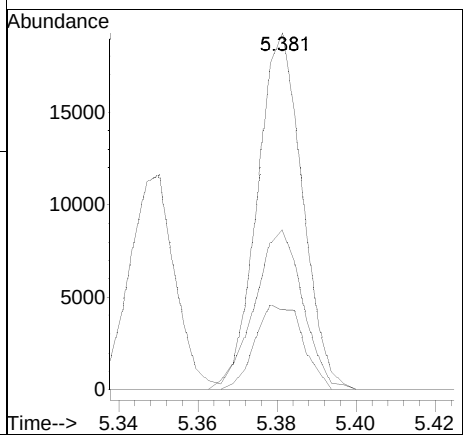


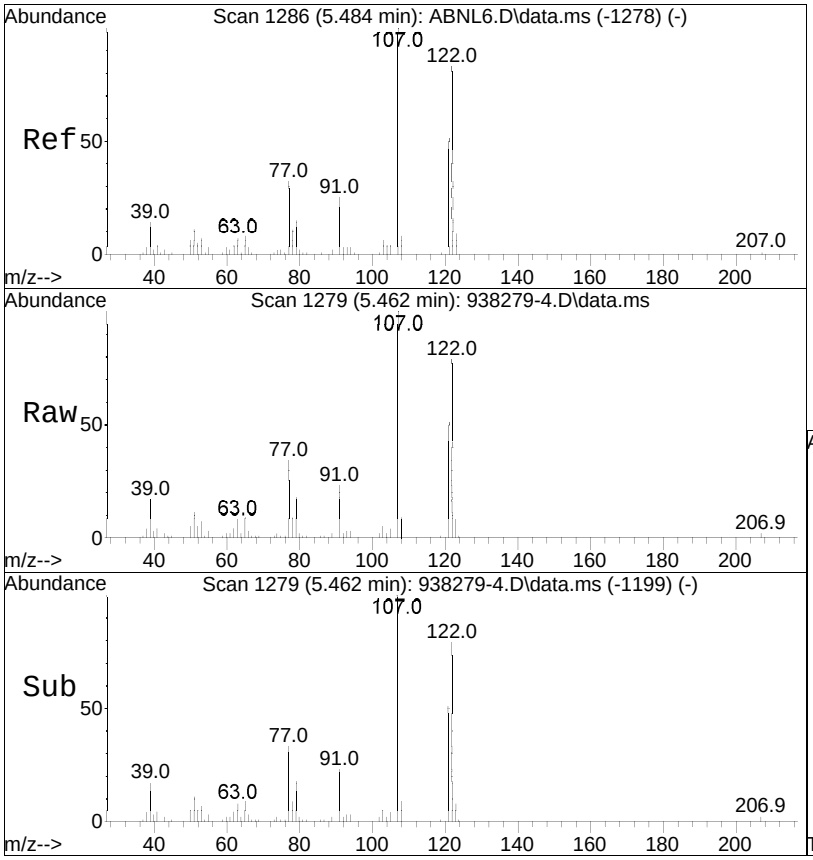


#22
2-Nitrophenol
Concen: 3.16 ug/ml
RT: 5.381 min Scan# 1253
Delta R.T. 0.000 min
Lab File: 938279-4.D
Acq: 24 Jun 2024 7:14 pm

Tgt Ion:139 Resp: 15239

Ion	Ratio	Lower	Upper
139	100		
109	25.2	19.4	29.0
65	47.7	46.1	69.1

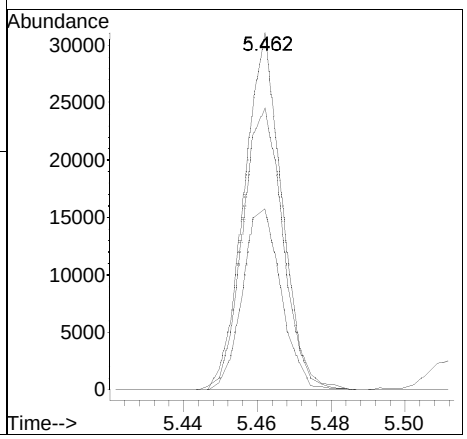


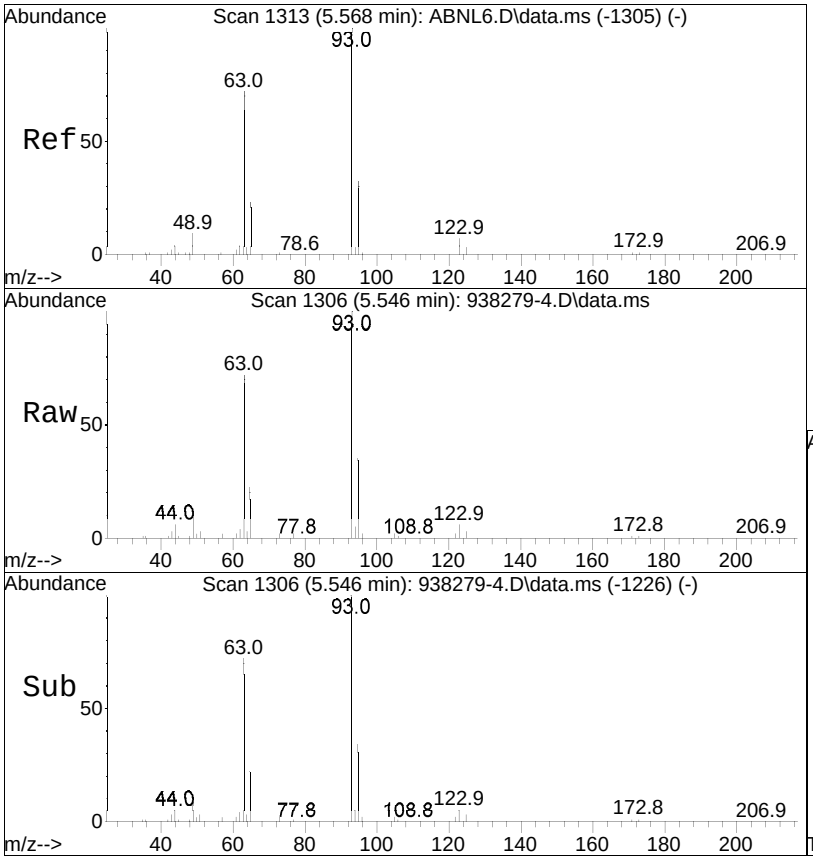


#23
2,4-Dimethylphenol
Concen: 2.68 ug/ml
RT: 5.462 min Scan# 1279
Delta R.T. 0.000 min
Lab File: 938279-4.D
Acq: 24 Jun 2024 7:14 pm

Tgt Ion:107 Resp: 21985

Ion	Ratio	Lower	Upper
107	100		
121	52.4	40.0	60.0
122	84.4	70.2	105.4

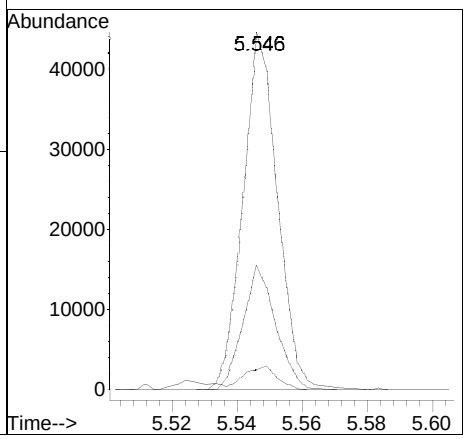


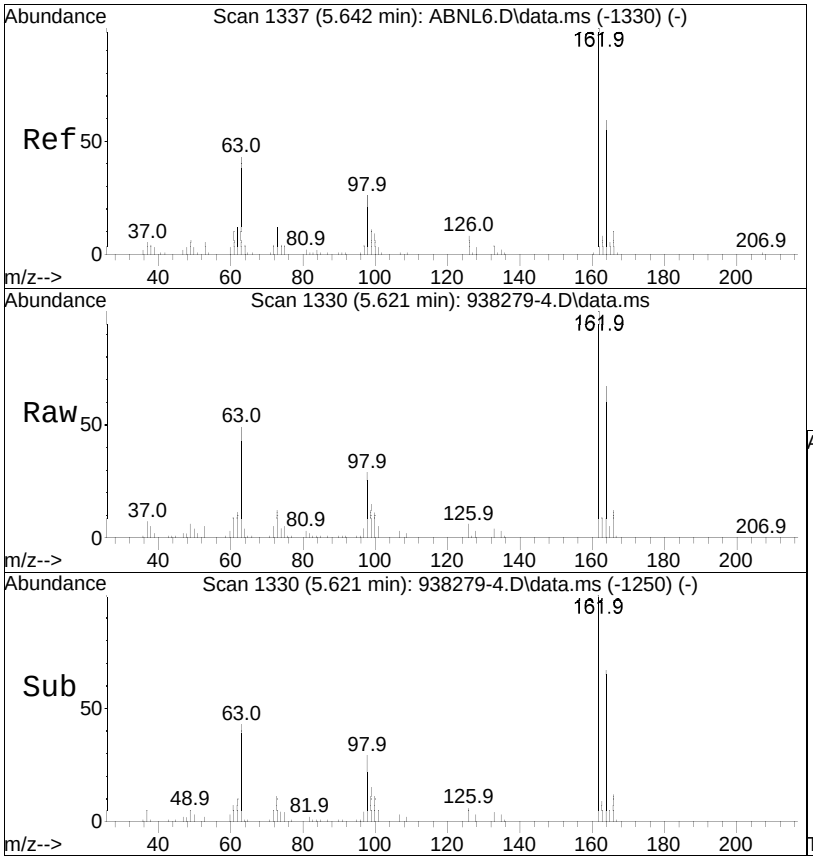


#24
Bis(2-chloroethoxy)methane
Concen: 3.11 ug/ml
RT: 5.546 min Scan# 1306
Delta R.T. 0.000 min
Lab File: 938279-4.D
Acq: 24 Jun 2024 7:14 pm

Tgt Ion: 93 Resp: 32546

Ion	Ratio	Lower	Upper
93	100		
95	33.3	25.8	38.8
123	6.4	10.1	15.1#

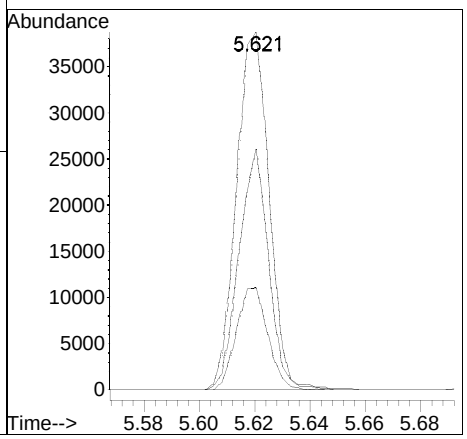


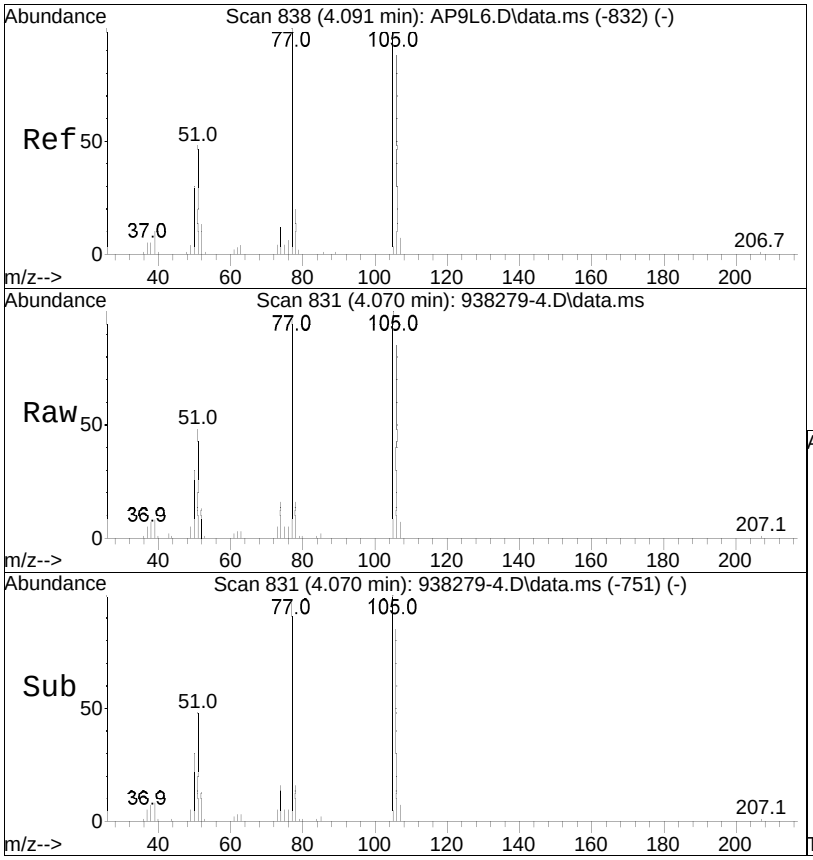


#25
2,4-Dichlorophenol
Concen: 3.41 ug/ml
RT: 5.621 min Scan# 1330
Delta R.T. 0.000 min
Lab File: 938279-4.D
Acq: 24 Jun 2024 7:14 pm

Tgt Ion:162 Resp: 31540

Ion	Ratio	Lower	Upper
162	100		
164	61.2	51.0	76.4
98	27.6	32.2	48.2#

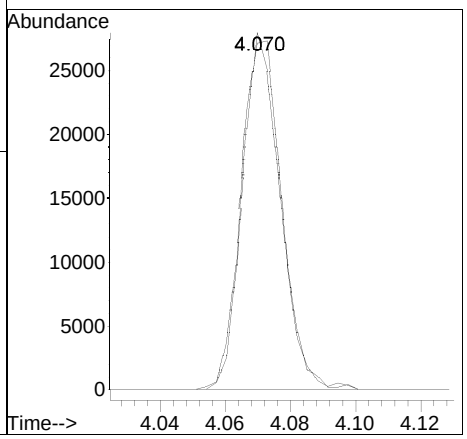


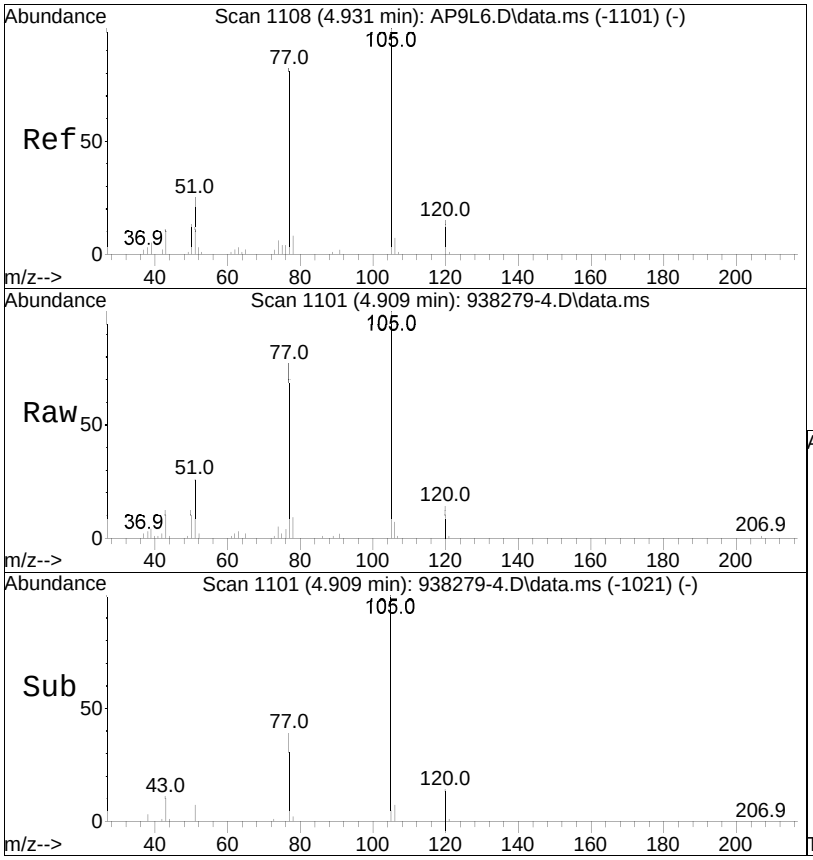


#28
Benzaldehyde
Concen: 2.90 ug/ml
RT: 4.070 min Scan# 831
Delta R.T. -0.000 min
Lab File: 938279-4.D
Acq: 24 Jun 2024 7:14 pm

Tgt Ion:105 Resp: 22472

Ion	Ratio	Lower	Upper
105	100		
77	106.1	82.2	123.4

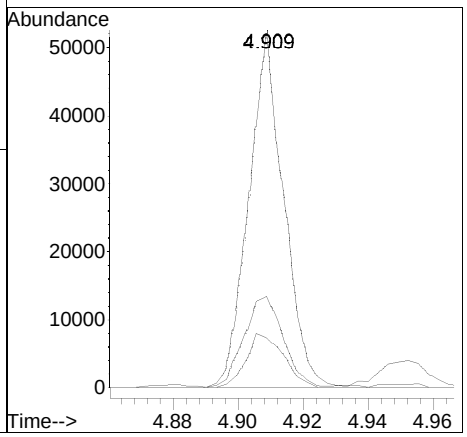


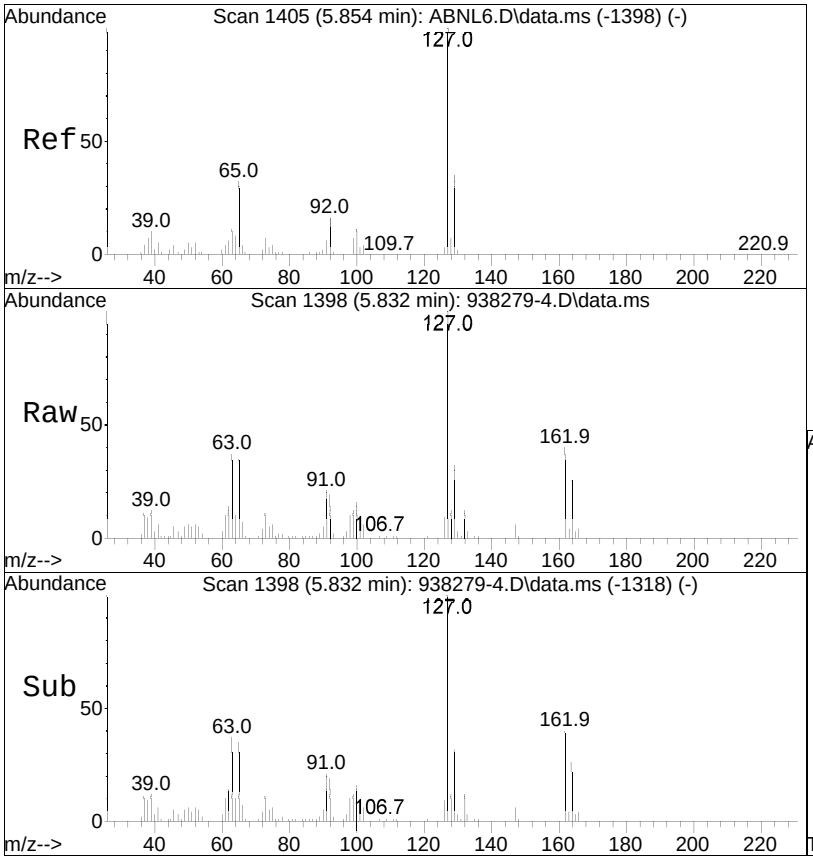


#29
Acetophenone
Concen: 2.92 ug/ml
RT: 4.909 min Scan# 1101
Delta R.T. -0.000 min
Lab File: 938279-4.D
Acq: 24 Jun 2024 7:14 pm

Tgt Ion:105 Resp: 38658

Ion	Ratio	Lower	Upper
105	100		
120	16.3	20.5	30.7#
51	29.1	34.9	52.3#

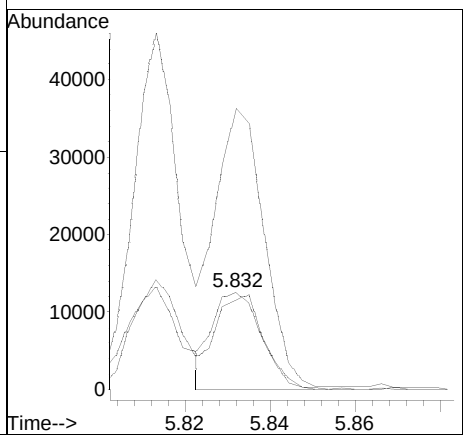


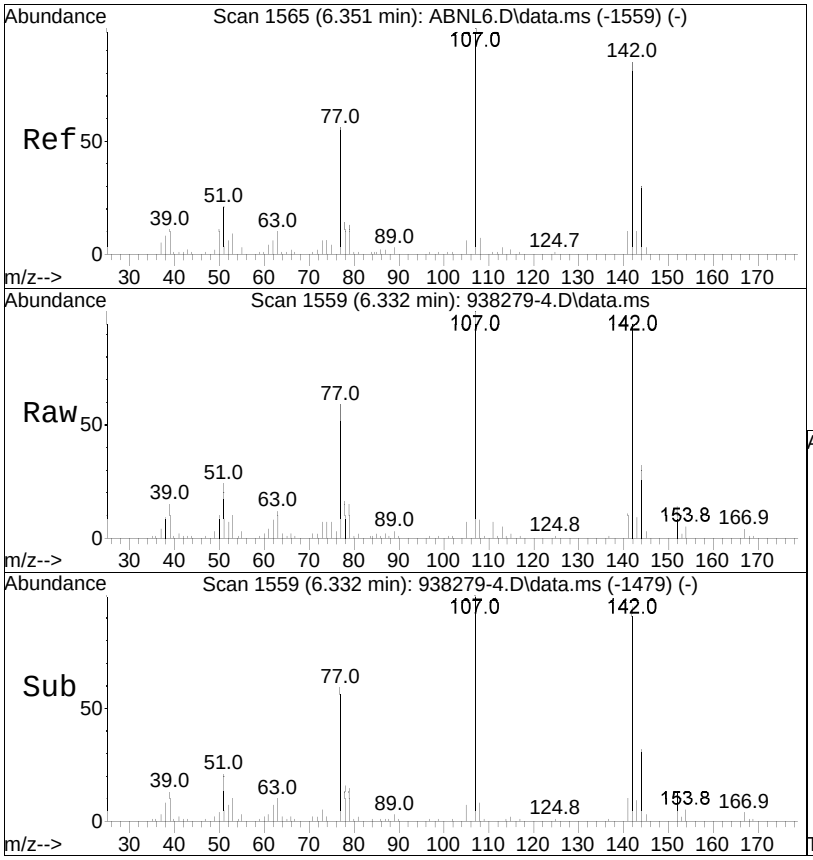


#38
4-Chloroaniline
Concen: 3.10 ug/ml
RT: 5.832 min Scan# 1398
Delta R.T. 0.000 min
Lab File: 938279-4.D
Acq: 24 Jun 2024 7:14 pm

Tgt Ion: 65 Resp: 10086

Ion	Ratio	Lower	Upper
65	100		
127	283.4	237.6	356.4
129	95.8	76.3	114.5

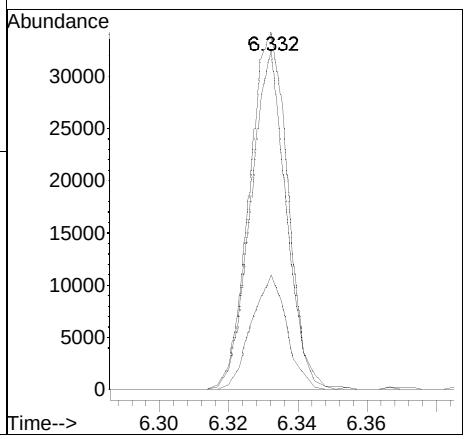


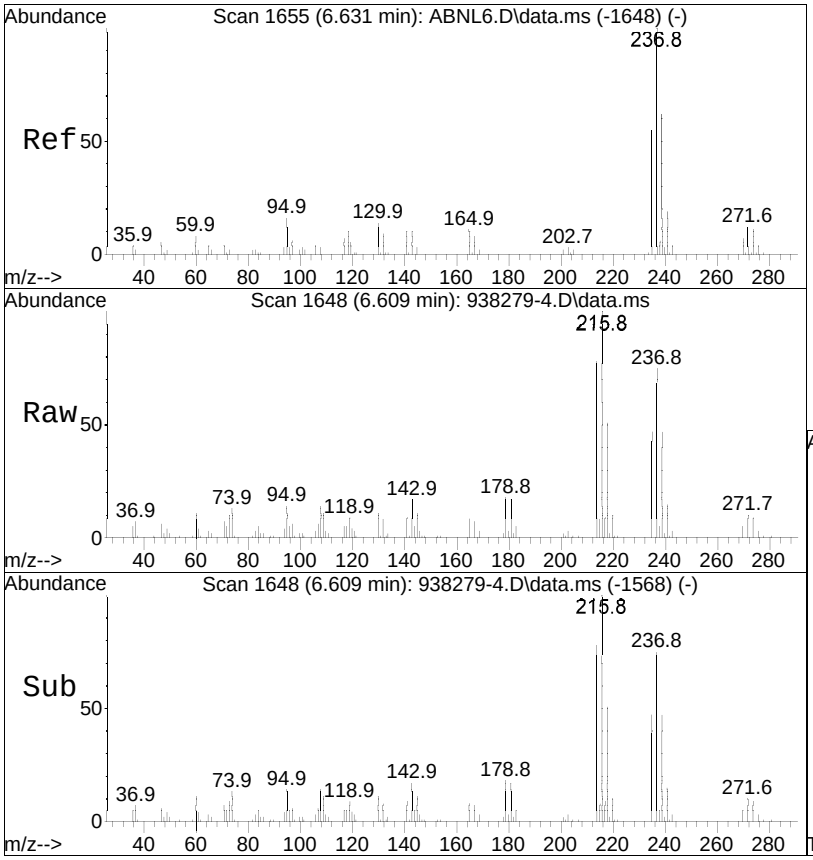


#40
p-Chloro-m-cresol
Concen: 3.52 ug/ml
RT: 6.332 min Scan# 1559
Delta R.T. 0.000 min
Lab File: 938279-4.D
Acq: 24 Jun 2024 7:14 pm

Tgt Ion:107 Resp: 26247

Ion	Ratio	Lower	Upper
107	100		
144	29.3	20.9	31.3
142	87.1	66.1	99.1

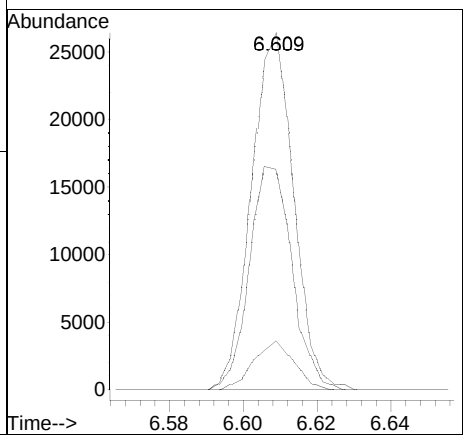


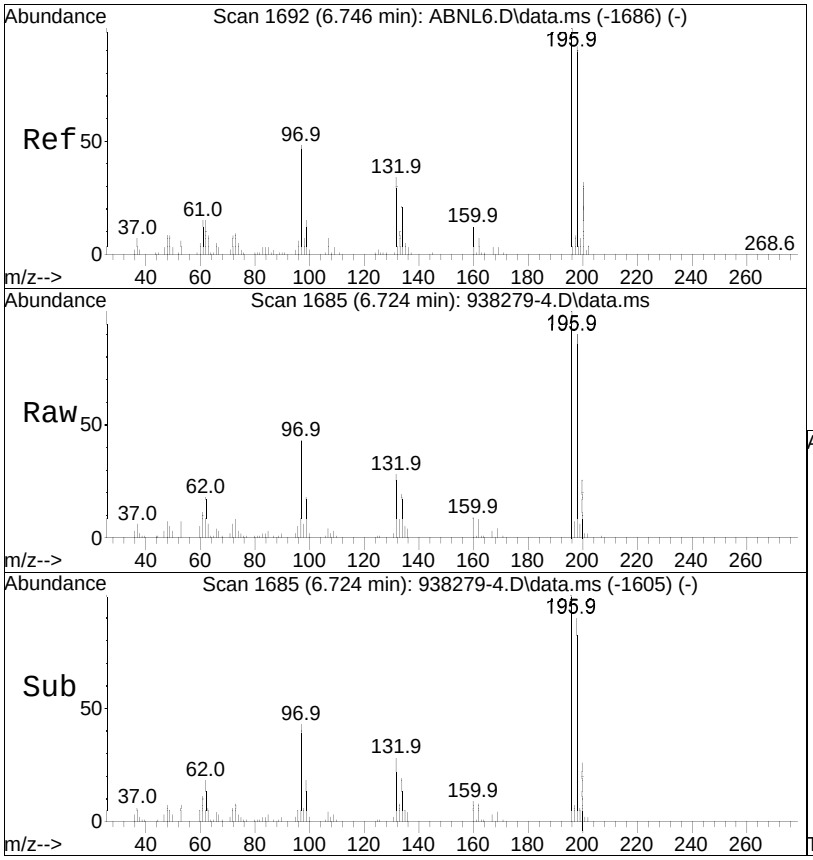


#43
Hexachlorocyclopentadiene
Concen: 2.83 ug/ml
RT: 6.609 min Scan# 1648
Delta R.T. 0.000 min
Lab File: 938279-4.D
Acq: 24 Jun 2024 7:14 pm

Tgt Ion:237 Resp: 21031

Ion	Ratio	Lower	Upper
237	100		
235	63.3	49.7	74.5
272	13.2	9.8	14.6

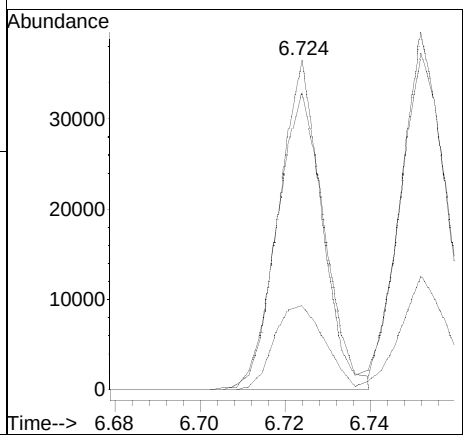


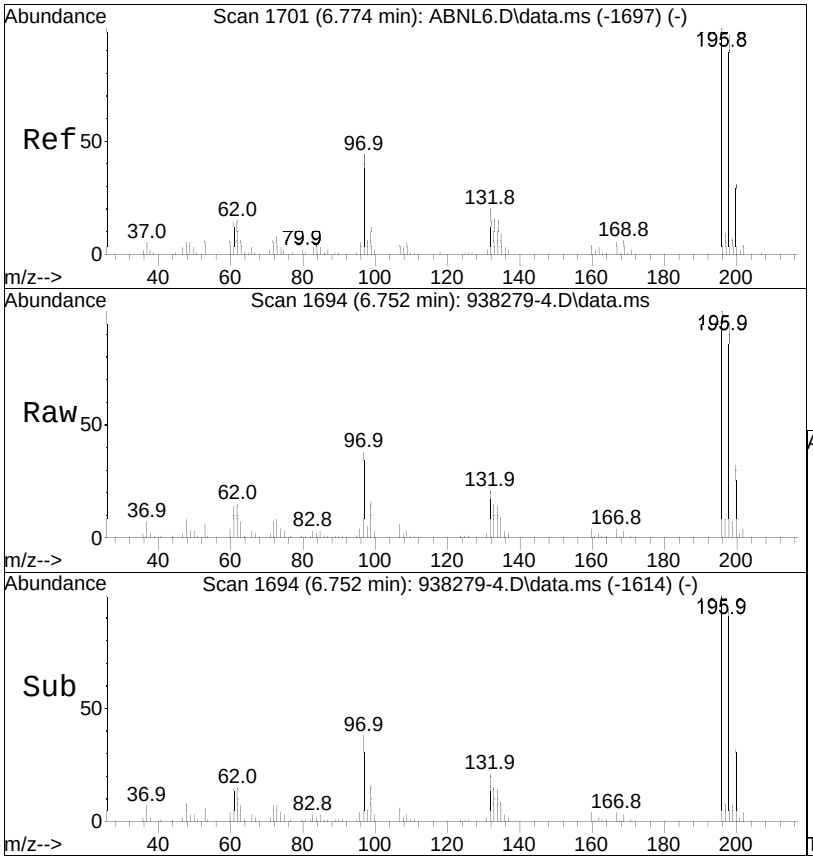


#44
2,4,6-Trichlorophenol
Concen: 3.49 ug/ml
RT: 6.724 min Scan# 1685
Delta R.T. 0.000 min
Lab File: 938279-4.D
Acq: 24 Jun 2024 7:14 pm

Tgt Ion:196 Resp: 26465

Ion	Ratio	Lower	Upper
196	100		
198	92.5	77.5	116.3
200	29.2	23.8	35.6

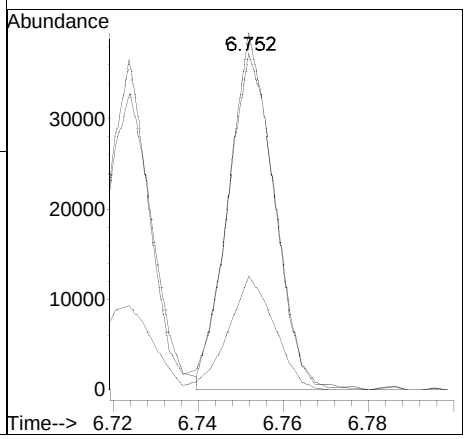


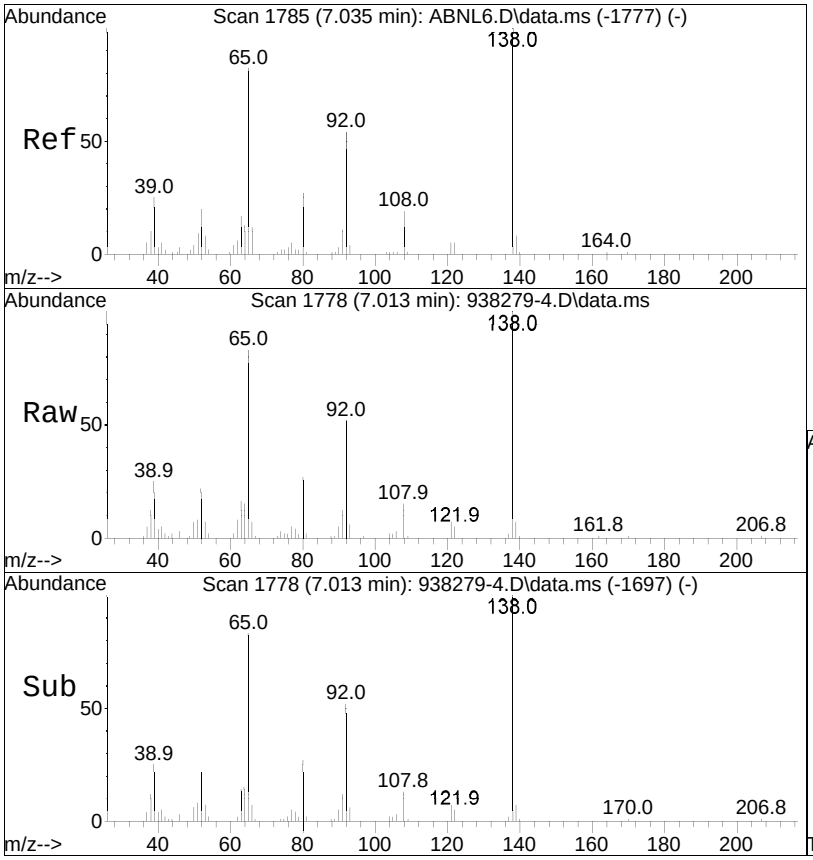


#45
2,4,5-Trichlorophenol
Concen: 3.58 ug/ml
RT: 6.752 min Scan# 1694
Delta R.T. 0.000 min
Lab File: 938279-4.D
Acq: 24 Jun 2024 7:14 pm

Tgt Ion:196 Resp: 29009

Ion	Ratio	Lower	Upper
196	100		
200	32.5	25.4	38.0
198	100.0	78.0	117.0

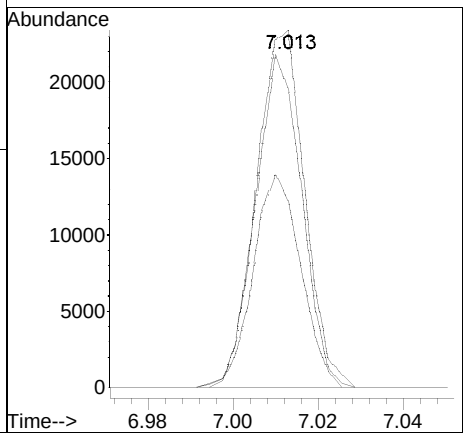


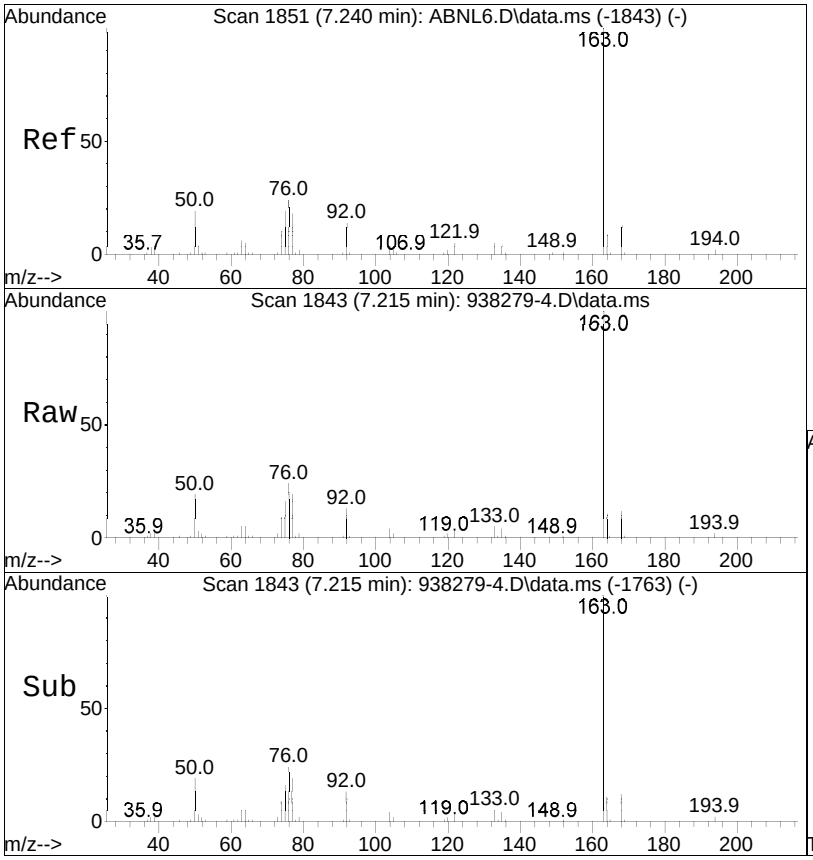


#48
2-Nitroaniline
Concen: 3.23 ug/ml
RT: 7.013 min Scan# 1778
Delta R.T. 0.003 min
Lab File: 938279-4.D
Acq: 24 Jun 2024 7:14 pm

Tgt Ion:138 Resp: 18281

Ion	Ratio	Lower	Upper
138	100		
92	59.1	53.5	80.3
65	89.9	86.3	129.5

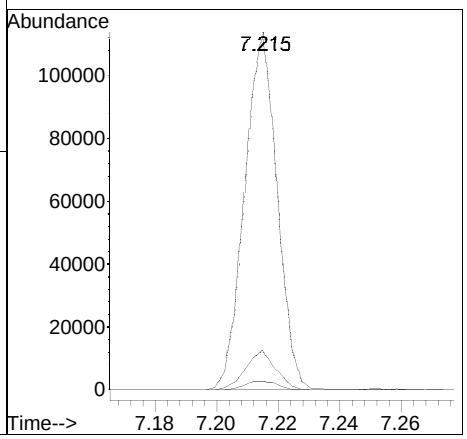


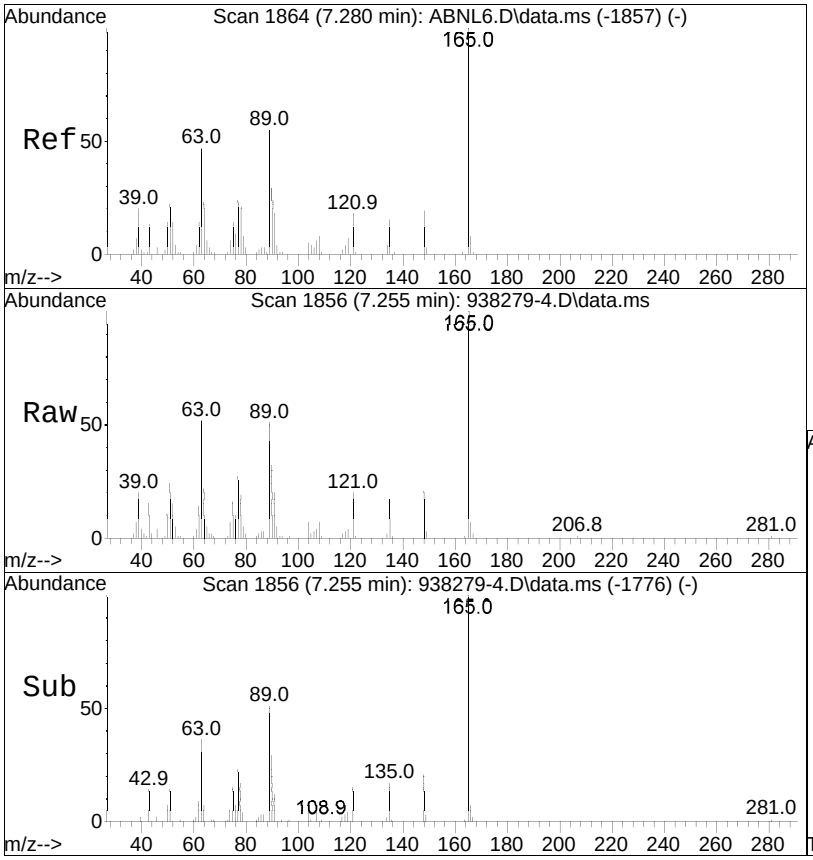


#51
Dimethyl phthalate
Concen: 3.13 ug/ml
RT: 7.215 min Scan# 1843
Delta R.T. 0.000 min
Lab File: 938279-4.D
Acq: 24 Jun 2024 7:14 pm

Tgt Ion:163 Resp: 82626

Ion	Ratio	Lower	Upper
163	100		
194	2.4	3.5	5.3#
164	10.3	7.9	11.9

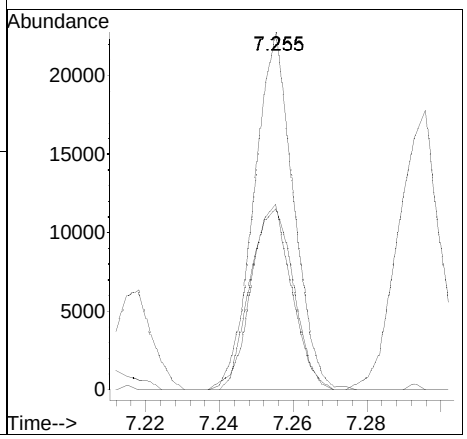


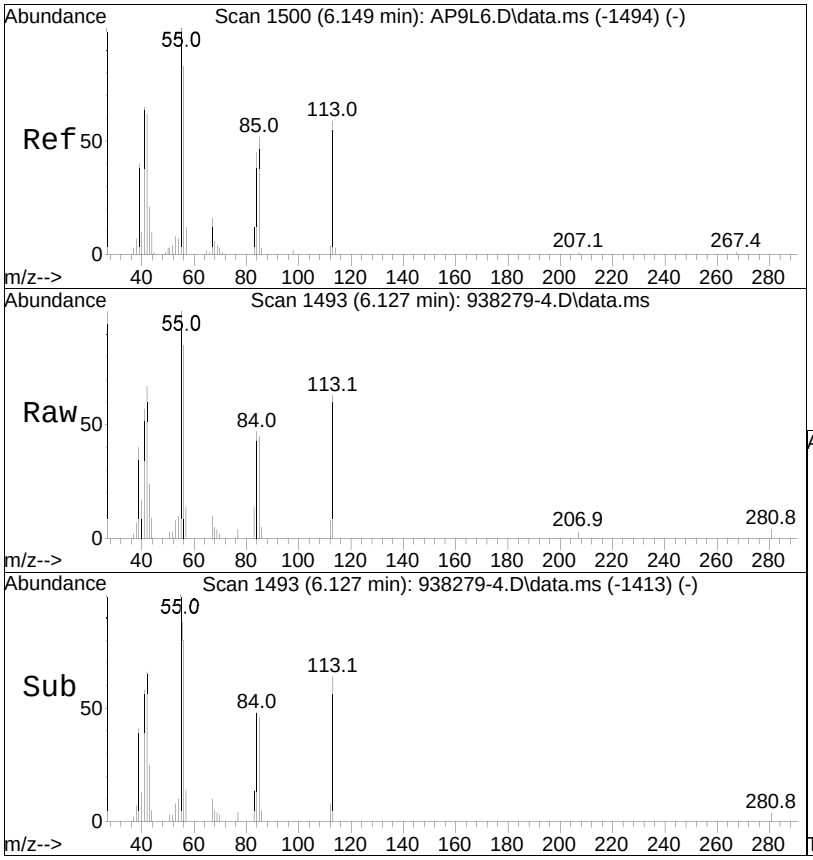


#53
2,6-Dinitrotoluene
Concen: 3.24 ug/ml
RT: 7.255 min Scan# 1856
Delta R.T. 0.000 min
Lab File: 938279-4.D
Acq: 24 Jun 2024 7:14 pm

Tgt Ion:165 Resp: 16885

Ion	Ratio	Lower	Upper
165	100		
89	55.9	54.2	81.2
63	53.5	64.2	96.2#

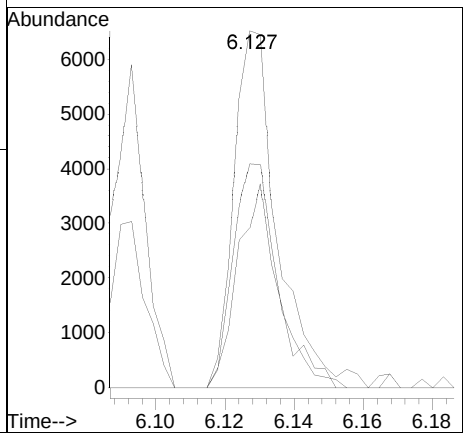


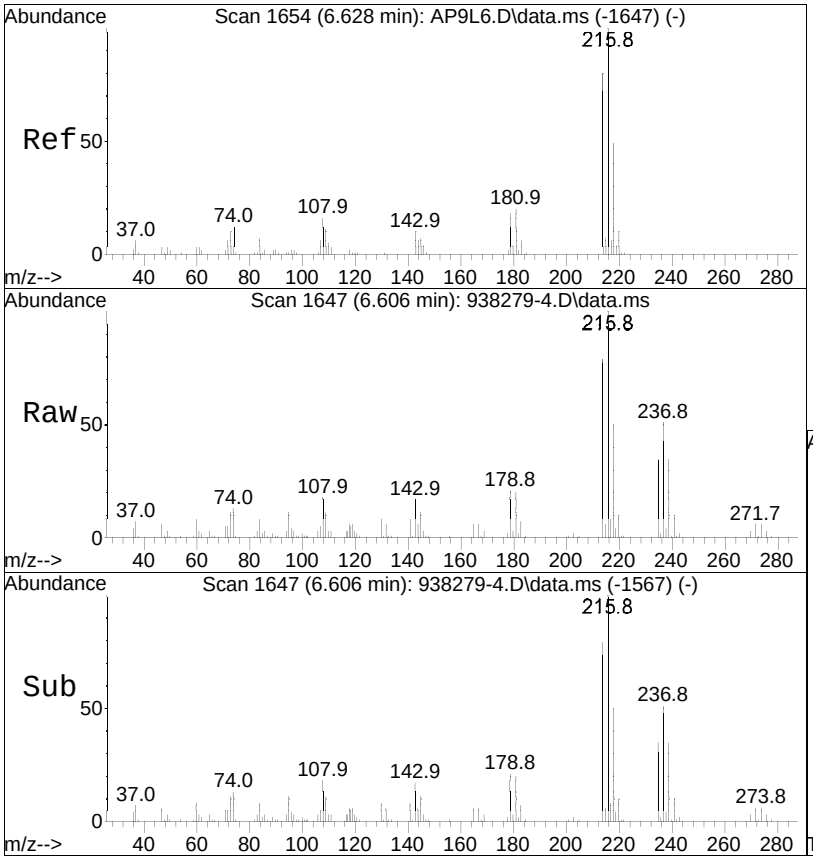


#60
Caprolactam
Concen: 1.68 ug/ml
RT: 6.127 min Scan# 1493
Delta R.T. -0.000 min
Lab File: 938279-4.D
Acq: 24 Jun 2024 7:14 pm

Tgt Ion: 55 Resp: 5753

Ion	Ratio	Lower	Upper
55	100		
85	53.5	19.8	29.6#
113	63.5	29.6	44.4#

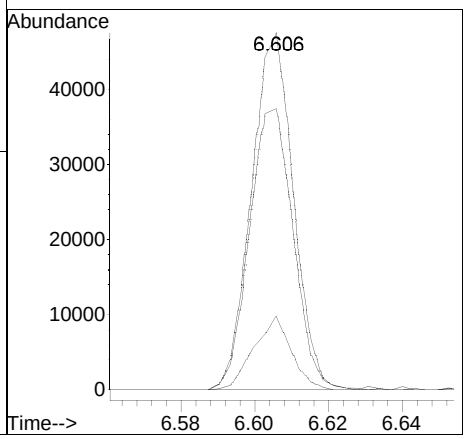


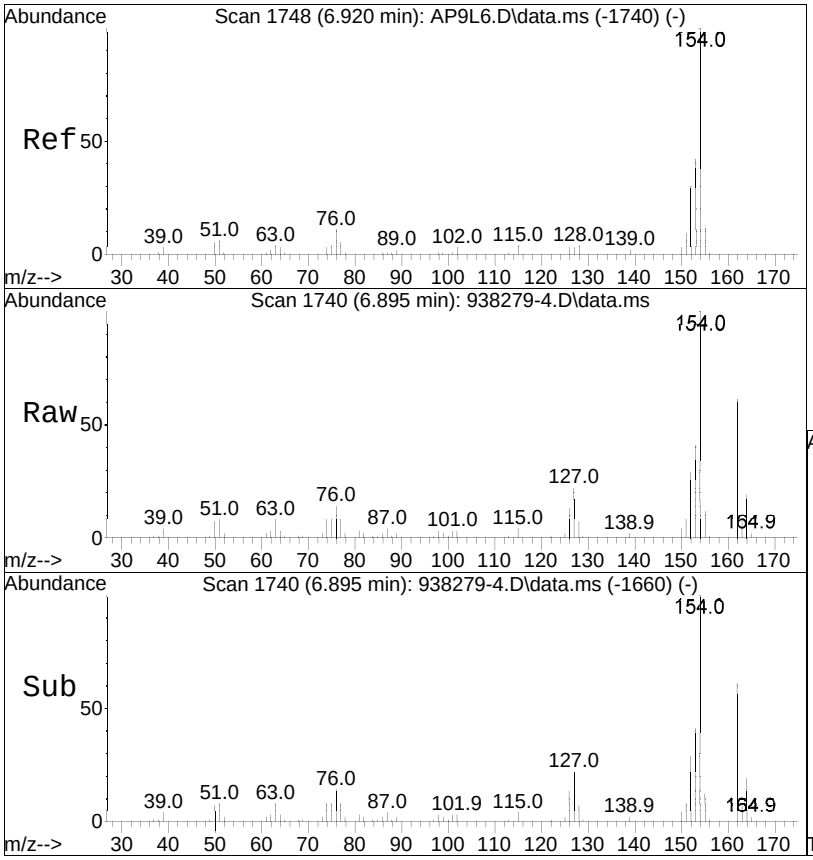


#61
1,2,4,5-Tetrachlorobenzene
Concen: 2.92 ug/ml
RT: 6.606 min Scan# 1647
Delta R.T. -0.000 min
Lab File: 938279-4.D
Acq: 24 Jun 2024 7:14 pm

Tgt Ion:216 Resp: 37344

Ion	Ratio	Lower	Upper
216	100		
214	82.1	63.7	95.5
179	18.5	19.0	28.6#

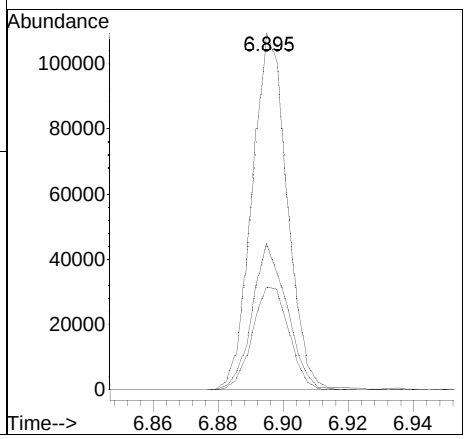


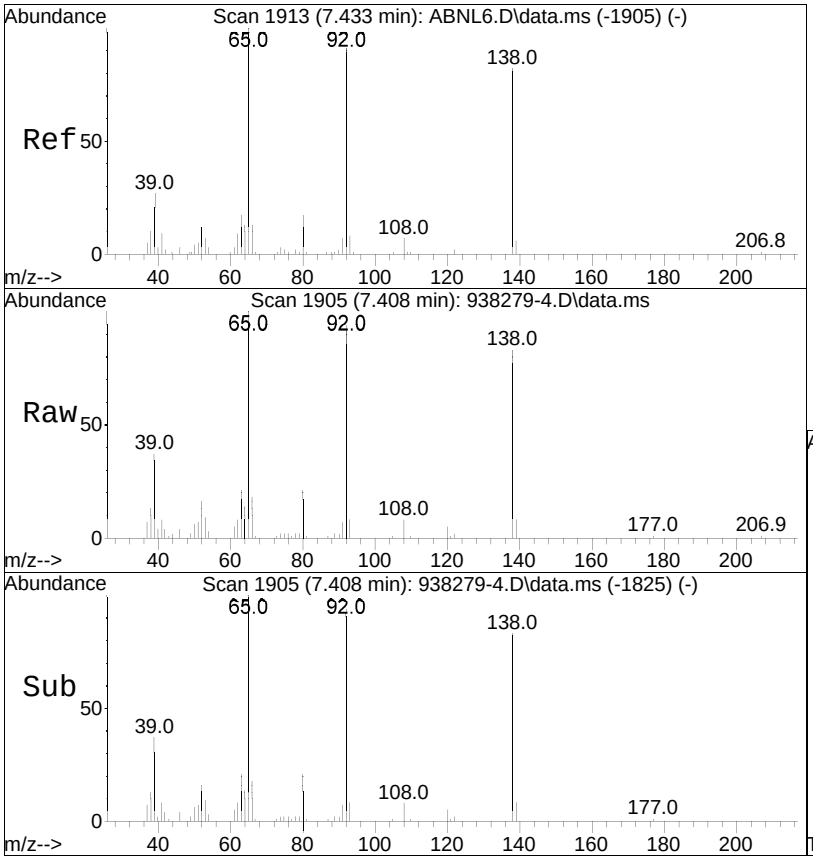


#62
Biphenyl
Concen: 2.98 ug/ml
RT: 6.895 min Scan# 1740
Delta R.T. -0.000 min
Lab File: 938279-4.D
Acq: 24 Jun 2024 7:14 pm

Tgt Ion:154 Resp: 81649

Ion	Ratio	Lower	Upper
154	100		
153	40.7	32.3	48.5
152	30.0	22.5	33.7

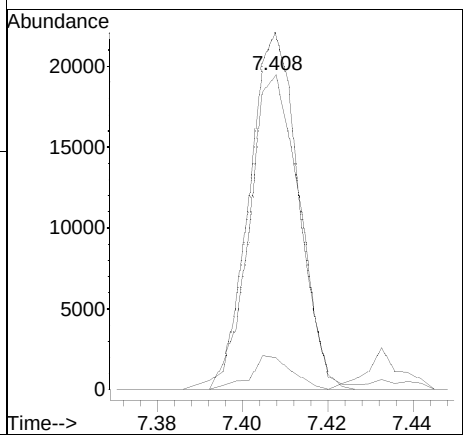


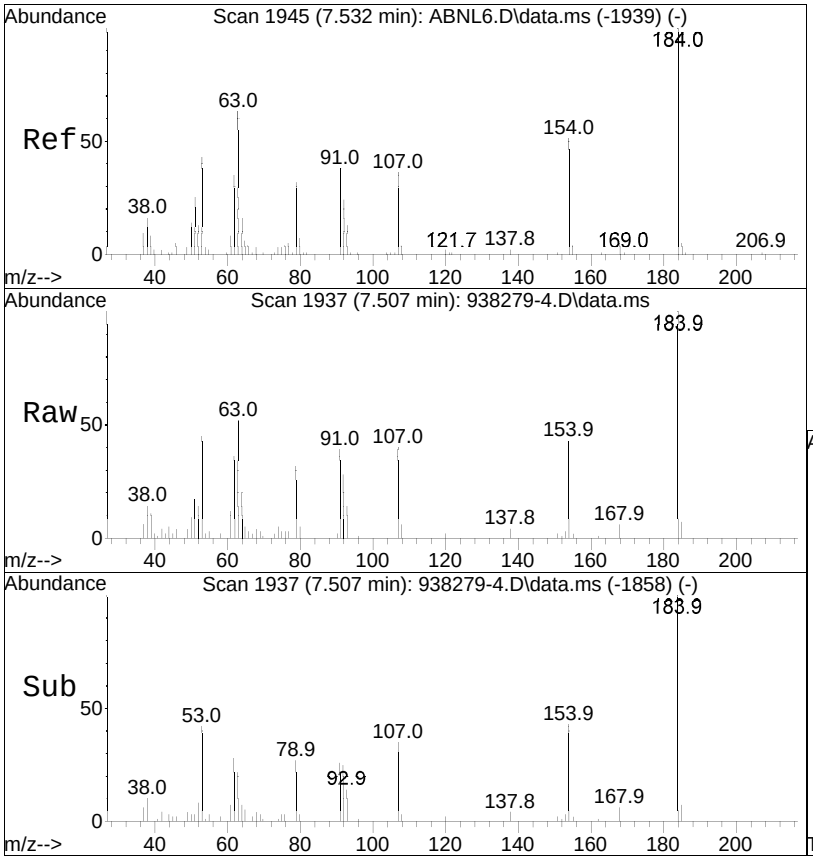


#64
3-Nitroaniline
Concen: 3.15 ug/ml
RT: 7.408 min Scan# 1905
Delta R.T. 0.000 min
Lab File: 938279-4.D
Acq: 24 Jun 2024 7:14 pm

Tgt Ion:138 Resp: 15786

Ion	Ratio	Lower	Upper
138	100		
92	111.8	93.4	140.2
108	8.9	9.5	14.3#

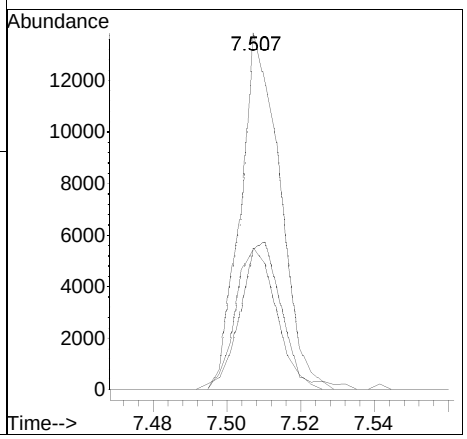


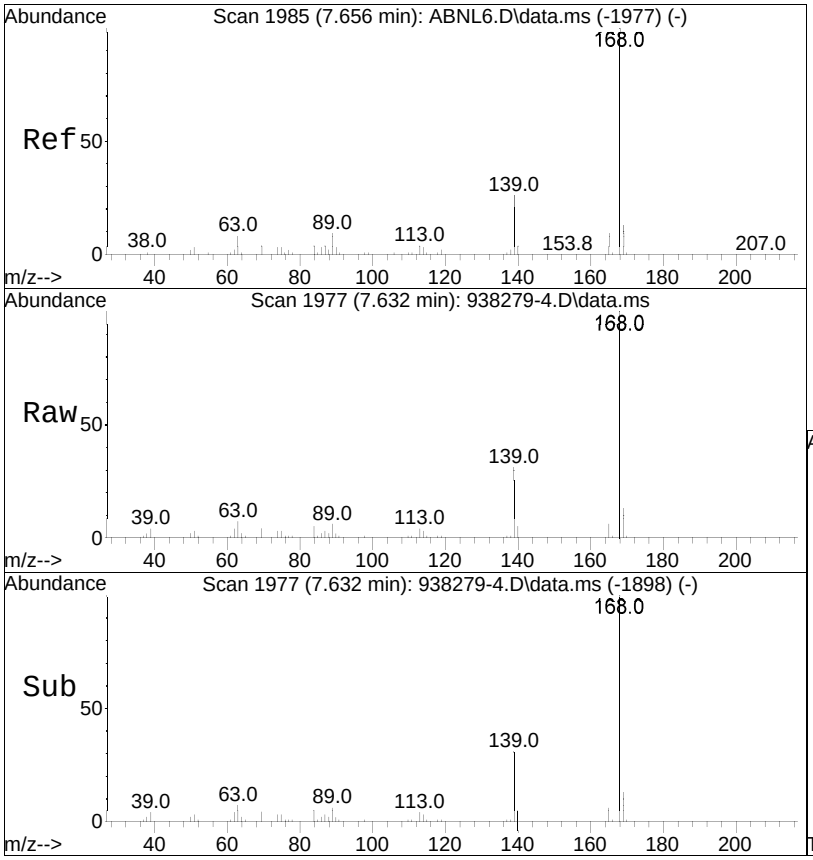


#66
2,4-Dinitrophenol
Concen: 2.98 ug/ml
RT: 7.507 min Scan# 1937
Delta R.T. -0.003 min
Lab File: 938279-4.D
Acq: 24 Jun 2024 7:14 pm

Tgt Ion:184 Resp: 10311

Ion	Ratio	Lower	Upper
184	100		
107	37.7	37.7	56.5
91	46.3	46.3	69.5#

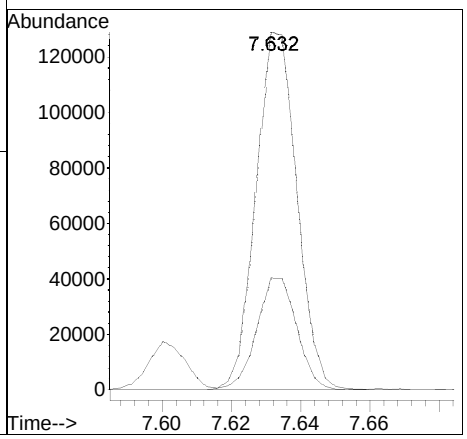


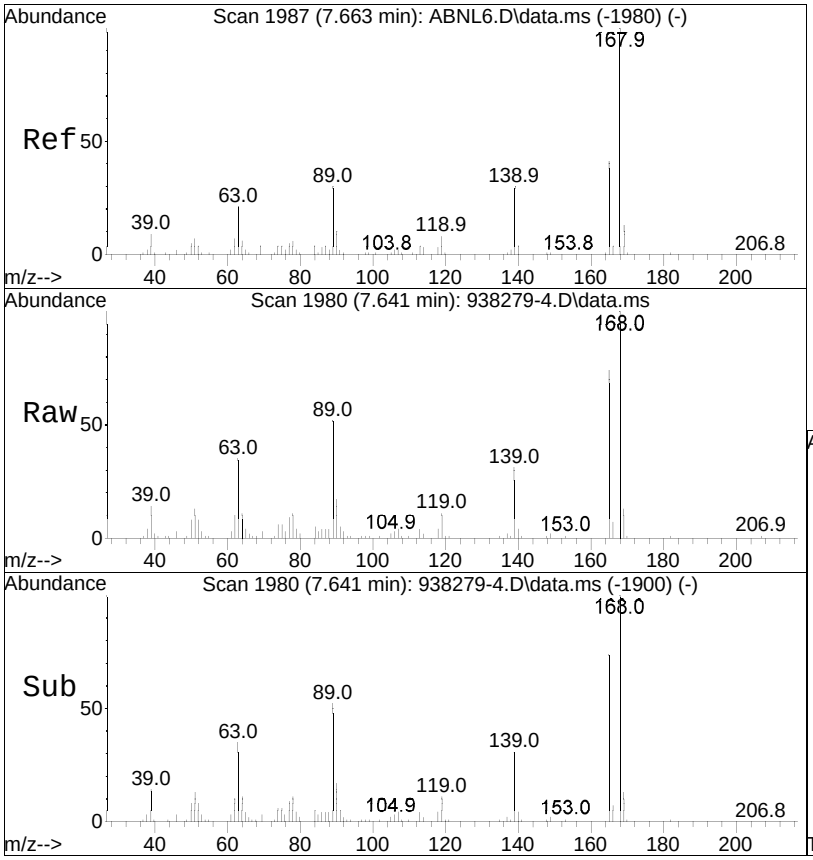


#67
Dibenzofuran
Concen: 3.26 ug/ml
RT: 7.632 min Scan# 1977
Delta R.T. -0.003 min
Lab File: 938279-4.D
Acq: 24 Jun 2024 7:14 pm

Tgt Ion:168 Resp: 104793

Ion	Ratio	Lower	Upper
168	100		
139	30.9	31.4	47.2#

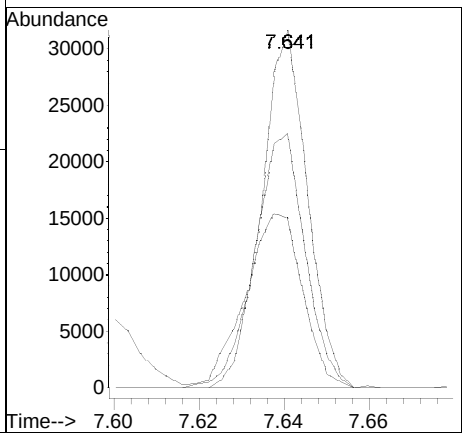


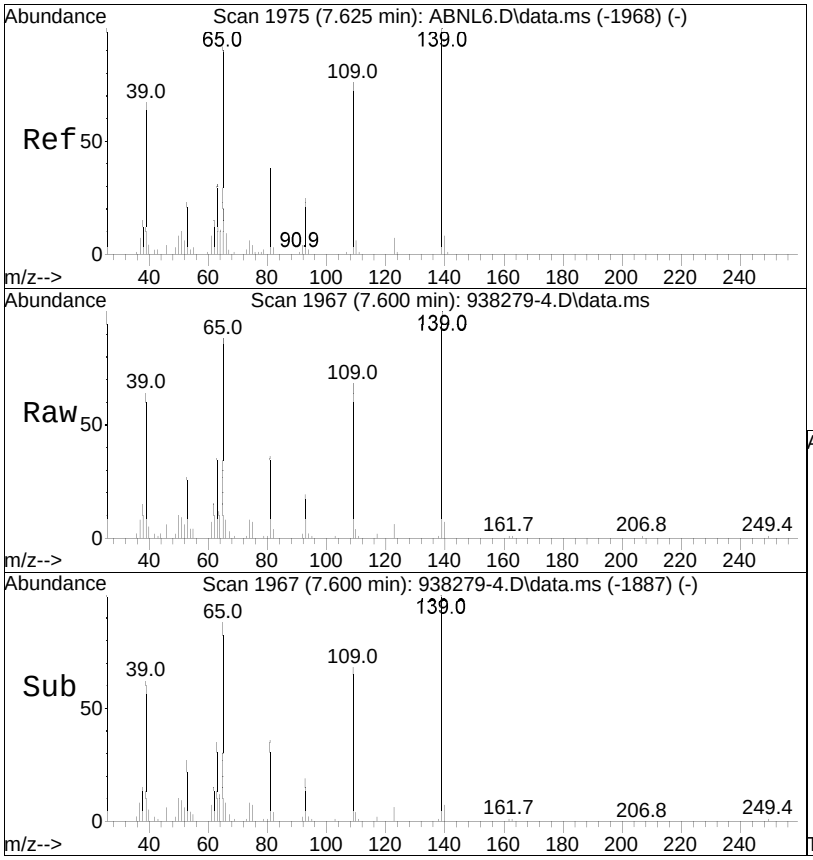


#68
2,4-Dinitrotoluene
Concen: 3.45 ug/ml
RT: 7.641 min Scan# 1980
Delta R.T. 0.000 min
Lab File: 938279-4.D
Acq: 24 Jun 2024 7:14 pm

Tgt Ion:165 Resp: 23544

Ion	Ratio	Lower	Upper
165	100		
89	78.0	72.0	108.0
63	61.2	52.7	79.1

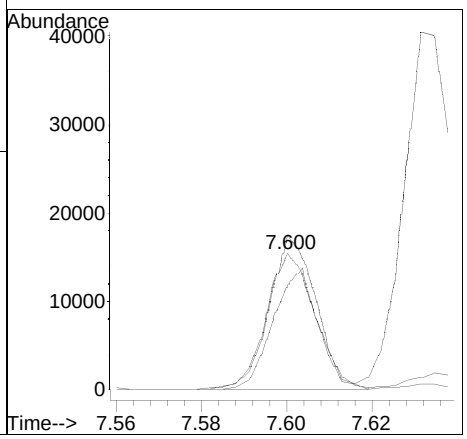


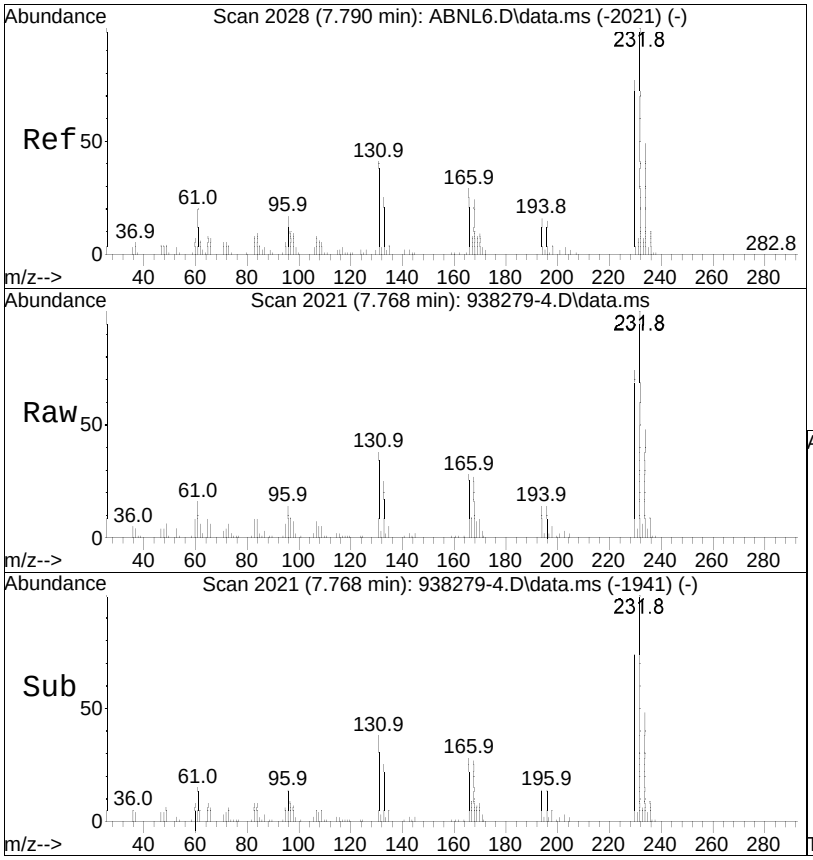


#69
4-Nitrophenol
Concen: 2.93 ug/ml
RT: 7.600 min Scan# 1967
Delta R.T. 0.000 min
Lab File: 938279-4.D
Acq: 24 Jun 2024 7:14 pm

Tgt Ion: 65 Resp: 12287

Ion	Ratio	Lower	Upper
65	100		
109	81.5	47.4	71.2#
139	107.8	76.6	115.0

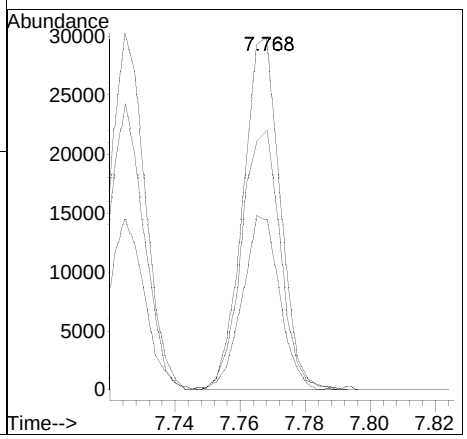


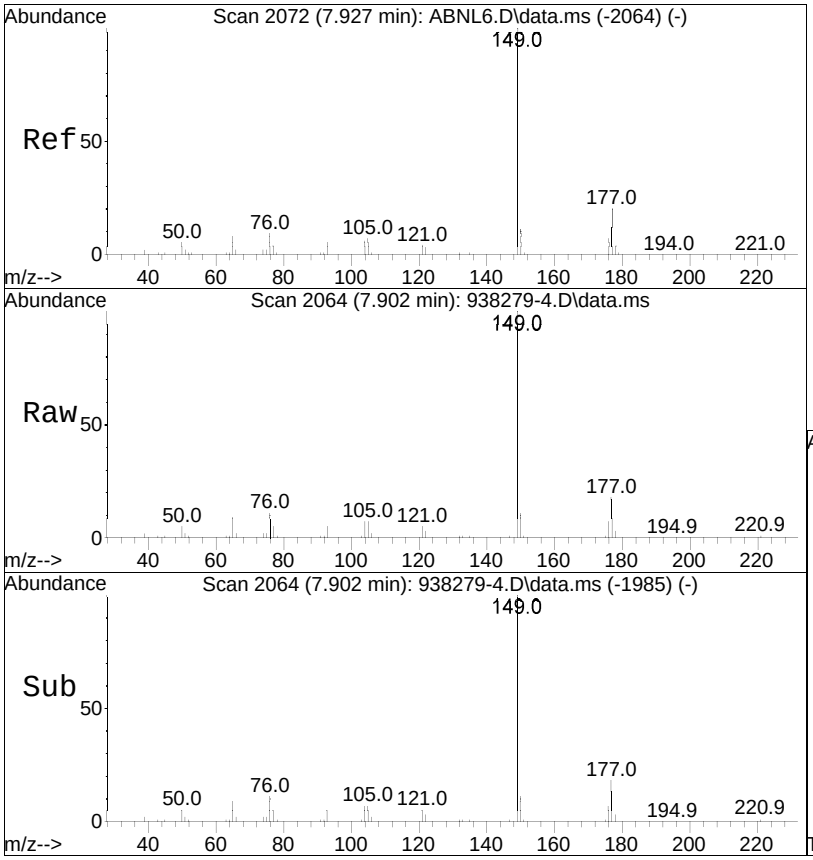


#71
2,3,4,6-Tetrachlorophenol
Concen: 3.53 ug/ml
RT: 7.768 min Scan# 2021
Delta R.T. 0.000 min
Lab File: 938279-4.D
Acq: 24 Jun 2024 7:14 pm

Tgt Ion:232 Resp: 23851

Ion	Ratio	Lower	Upper
232	100		
230	77.1	61.8	92.8
234	49.6	36.2	54.2

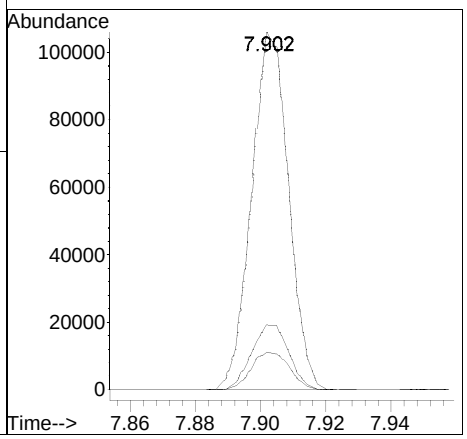


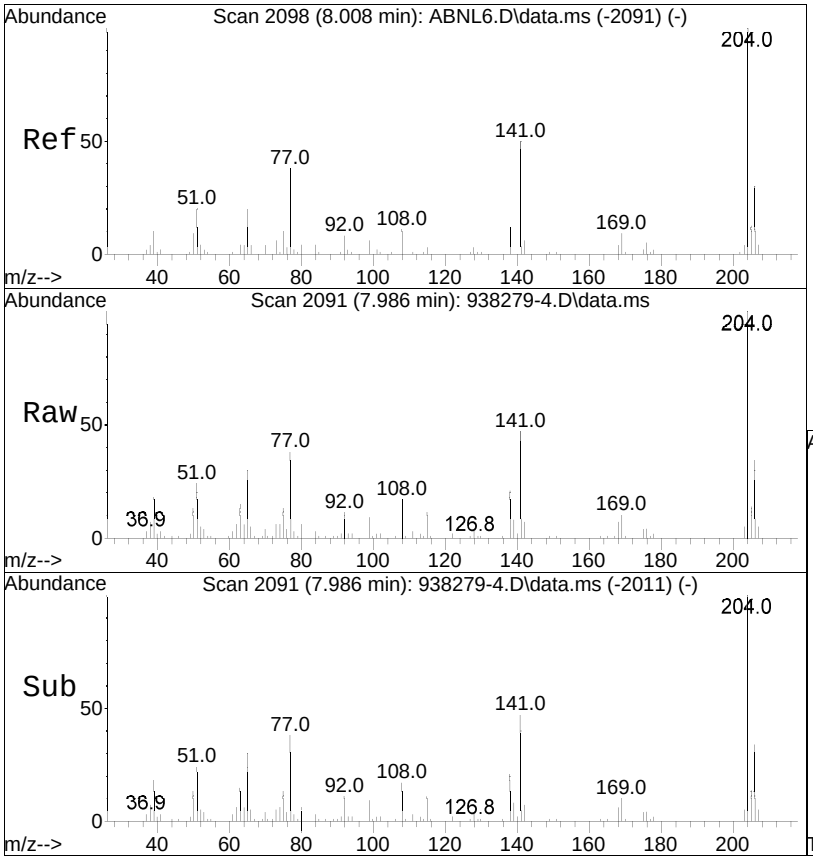


#72
Diethyl phthalate
Concen: 3.17 ug/ml
RT: 7.902 min Scan# 2064
Delta R.T. -0.003 min
Lab File: 938279-4.D
Acq: 24 Jun 2024 7:14 pm

Tgt Ion:149 Resp: 82651

Ion	Ratio	Lower	Upper
149	100		
177	18.7	16.1	24.1
150	11.2	9.4	14.2

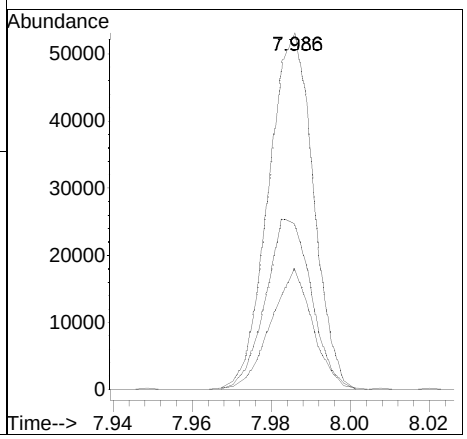


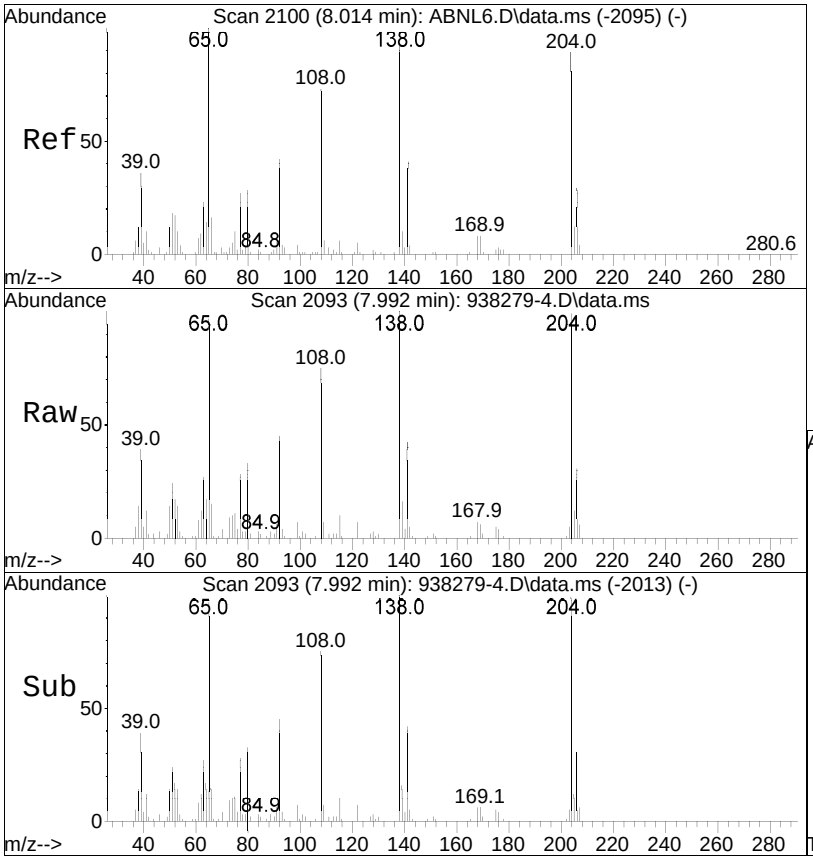


#74
4-Chlorophenyl phenyl ether
Concen: 3.35 ug/ml
RT: 7.986 min Scan# 2091
Delta R.T. 0.000 min
Lab File: 938279-4.D
Acq: 24 Jun 2024 7:14 pm

Tgt Ion:204 Resp: 41741

Ion	Ratio	Lower	Upper
204	100		
206	31.9	25.8	38.6
141	48.8	53.6	80.4#

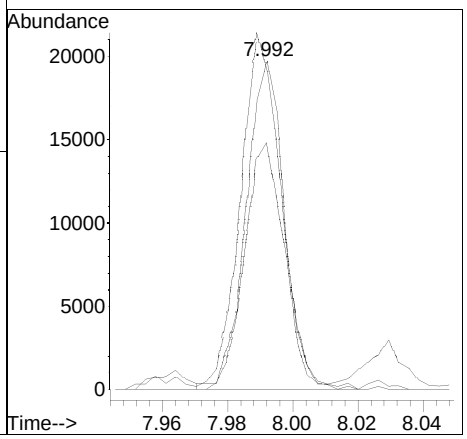


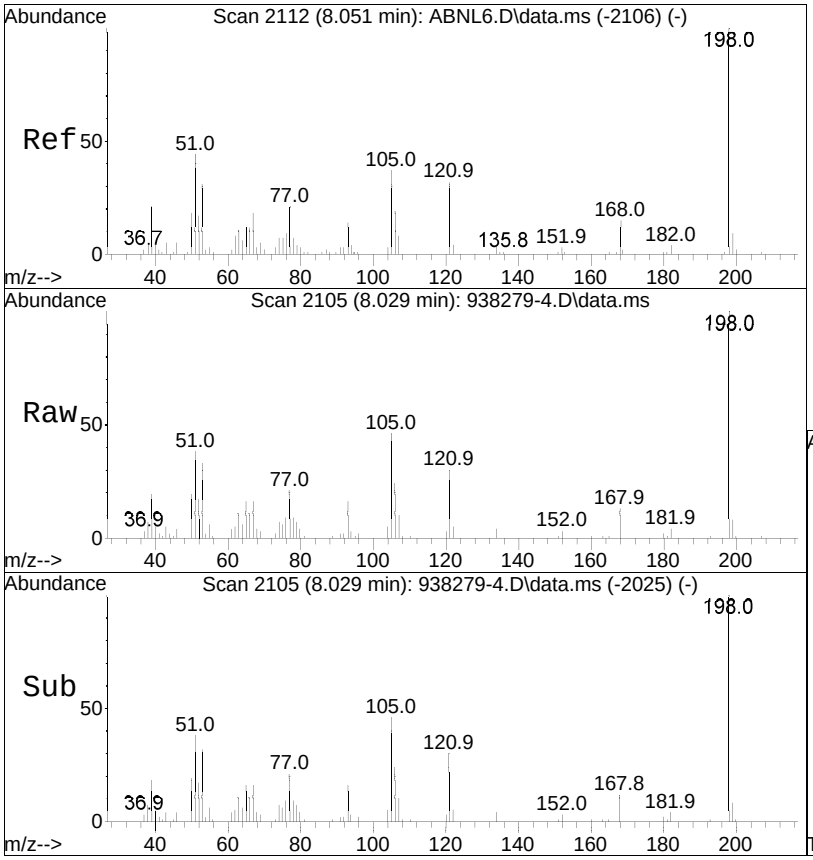


#75
4-Nitroaniline
Concen: 3.27 ug/ml
RT: 7.992 min Scan# 2093
Delta R.T. 0.000 min
Lab File: 938279-4.D
Acq: 24 Jun 2024 7:14 pm

Tgt Ion:138 Resp: 16118

Ion	Ratio	Lower	Upper
138	100		
108	77.7	52.1	78.1
65	114.5	115.0	172.6#

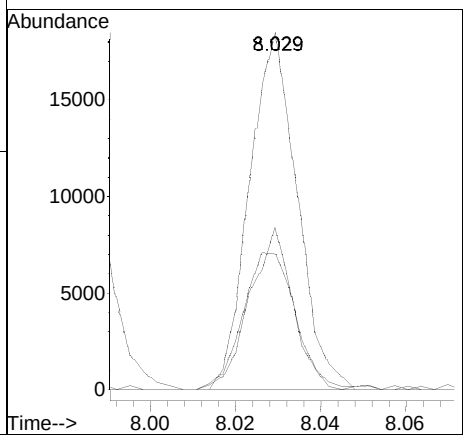


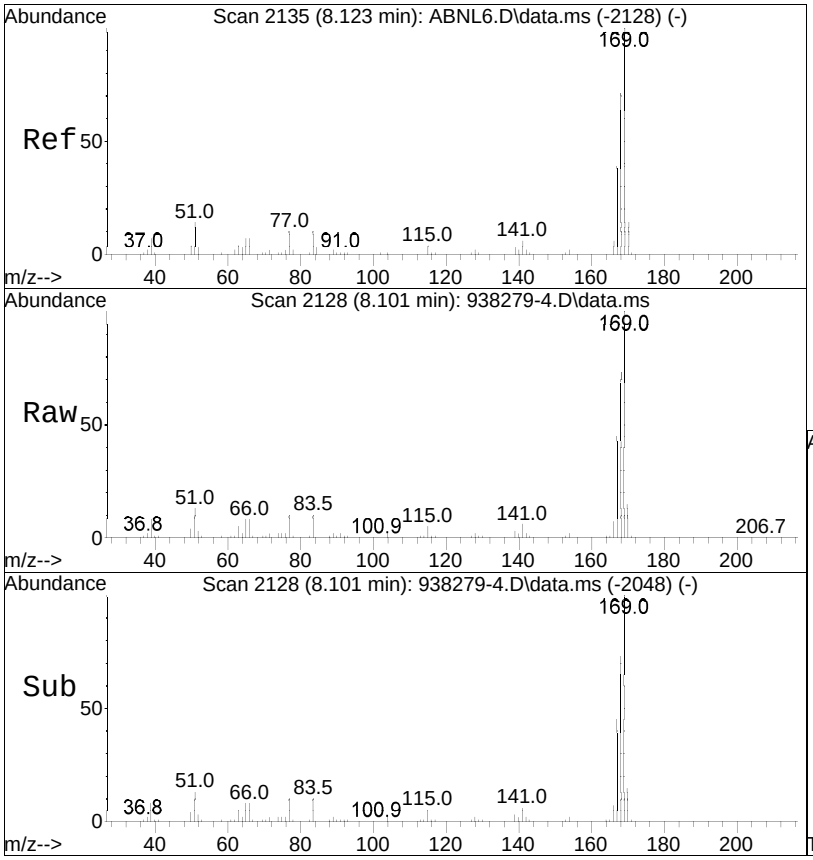


#76
4,6-Dinitro-o-cresol
Concen: 3.33 ug/ml
RT: 8.029 min Scan# 2105
Delta R.T. 0.000 min
Lab File: 938279-4.D
Acq: 24 Jun 2024 7:14 pm

Tgt Ion:198 Resp: 14331

Ion	Ratio	Lower	Upper
198	100		
51	43.2	76.0	114.0#
105	41.1	45.6	68.4#

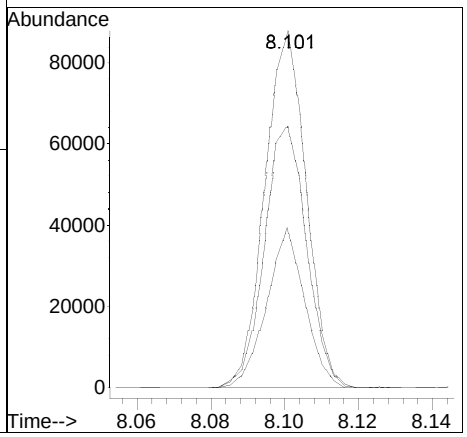


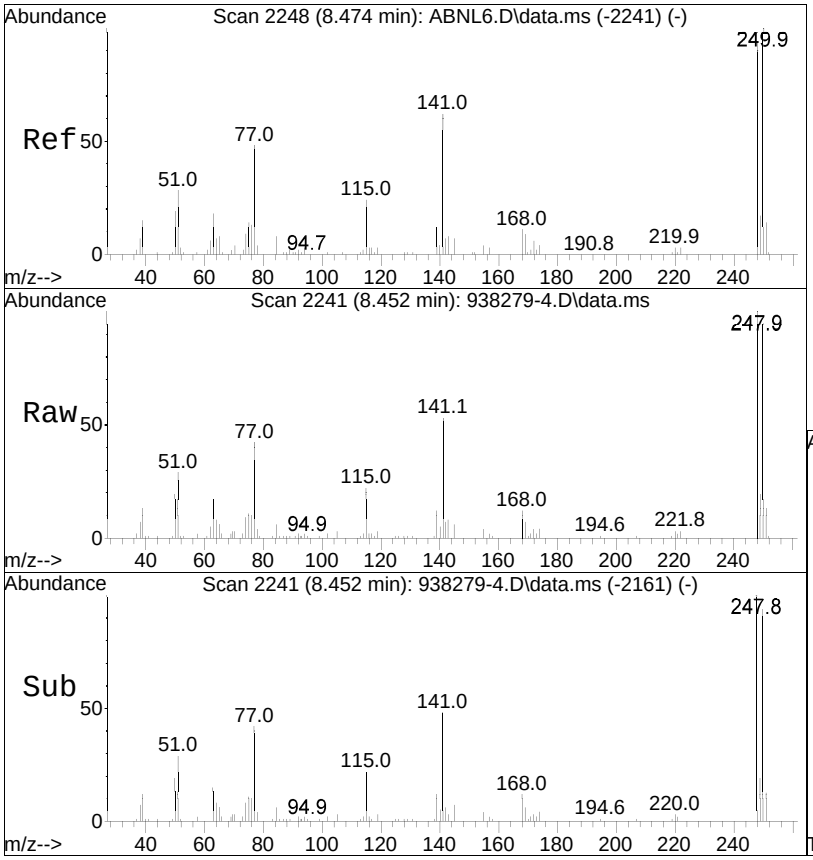


#77
NDPA/DPA
Concen: 3.25 ug/ml
RT: 8.101 min Scan# 2128
Delta R.T. 0.000 min
Lab File: 938279-4.D
Acq: 24 Jun 2024 7:14 pm

Tgt Ion:169 Resp: 68232

Ion	Ratio	Lower	Upper
169	100		
168	75.0	54.0	81.0
167	41.5	28.6	42.8

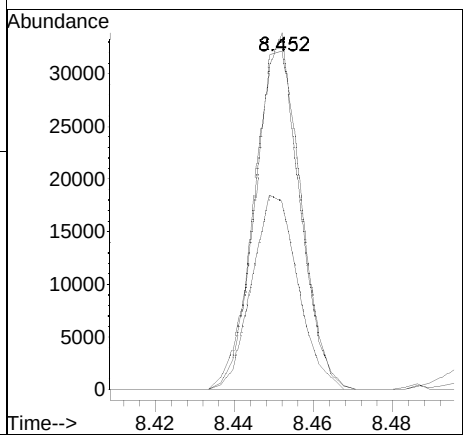


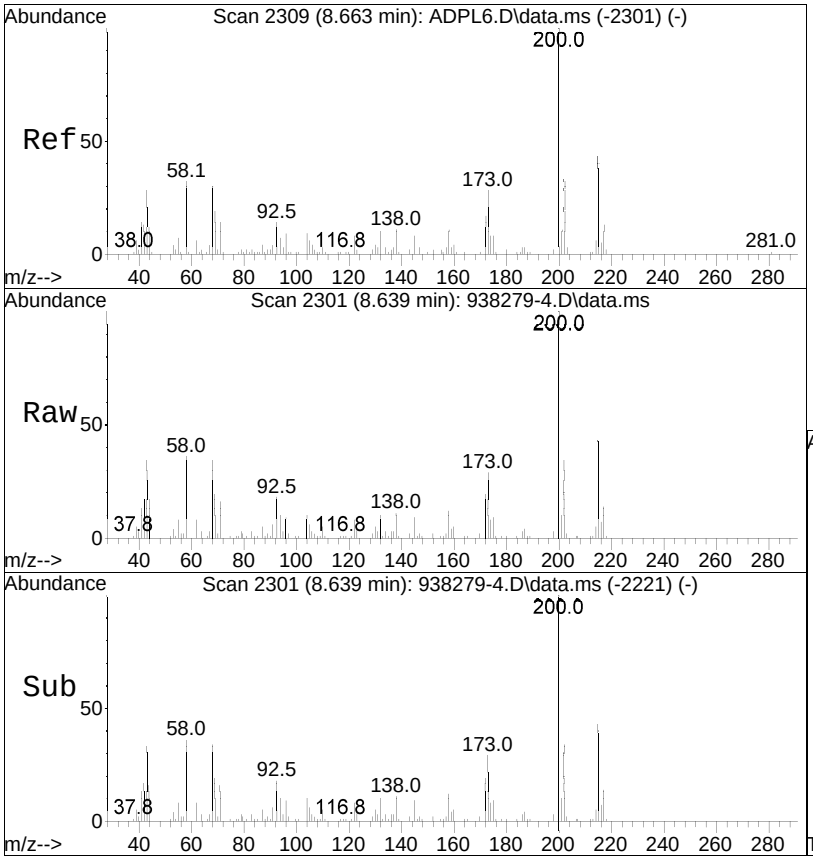


#80
4-Bromophenyl phenyl ether
Concen: 3.18 ug/ml
RT: 8.452 min Scan# 2241
Delta R.T. 0.000 min
Lab File: 938279-4.D
Acq: 24 Jun 2024 7:14 pm

Tgt Ion:248 Resp: 26324

Ion	Ratio	Lower	Upper
248	100		
141	56.6	76.6	114.8#
250	99.2	77.3	115.9

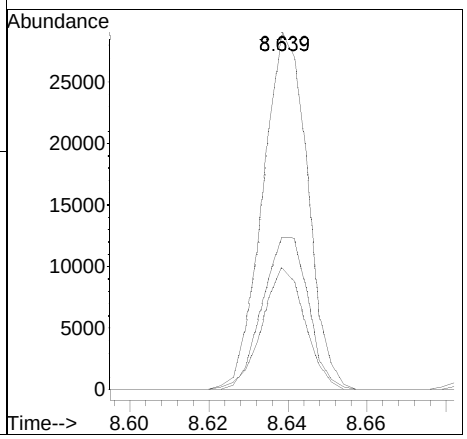


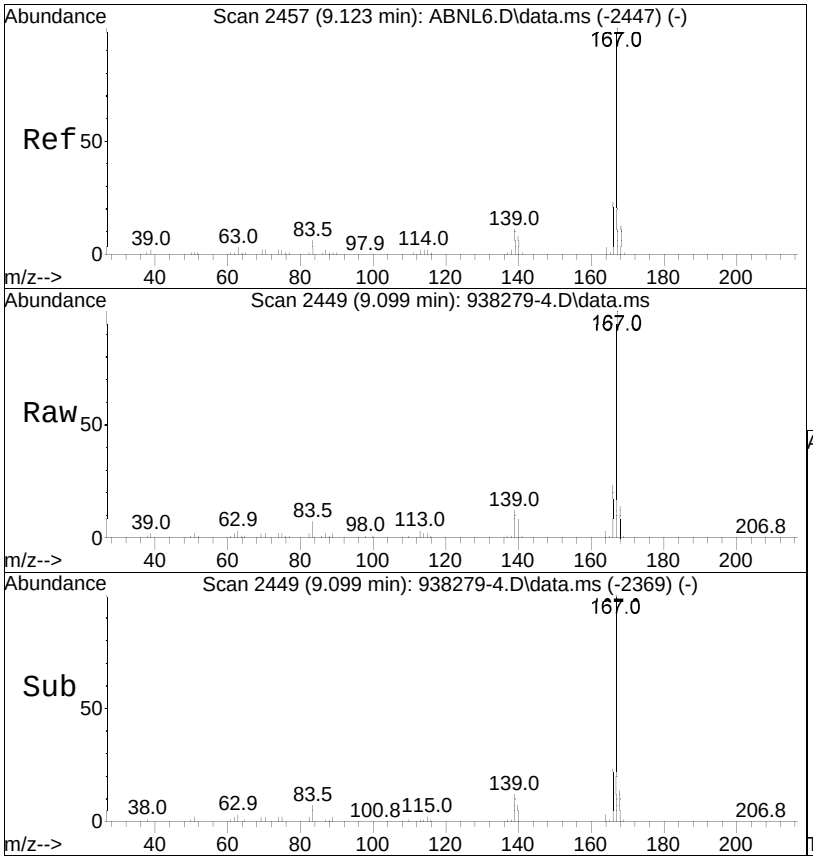


#87
Atrazine
Concen: 3.00 ug/ml
RT: 8.639 min Scan# 2301
Delta R.T. -0.000 min
Lab File: 938279-4.D
Acq: 24 Jun 2024 7:14 pm

Tgt Ion:200 Resp: 22791

Ion	Ratio	Lower	Upper
200	100		
202	32.9	25.8	38.6
215	43.4	40.2	60.4

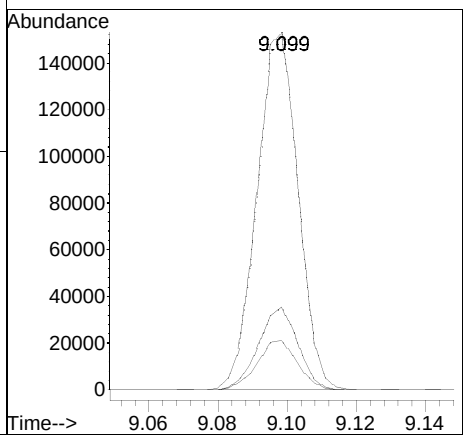


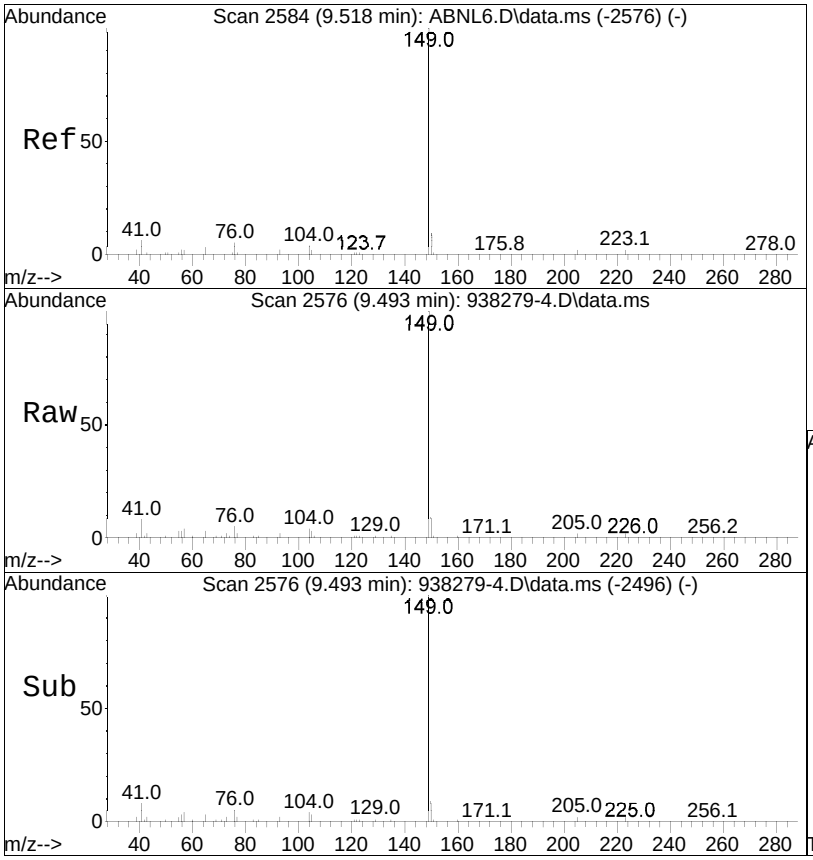


#91
Carbazole
Concen: 3.43 ug/ml
RT: 9.099 min Scan# 2449
Delta R.T. 0.000 min
Lab File: 938279-4.D
Acq: 24 Jun 2024 7:14 pm

Tgt Ion:167 Resp: 124909

Ion	Ratio	Lower	Upper
167	100		
168	13.7	10.6	15.8
166	22.3	17.4	26.0

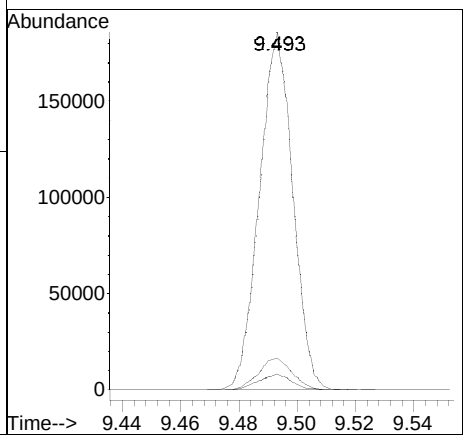


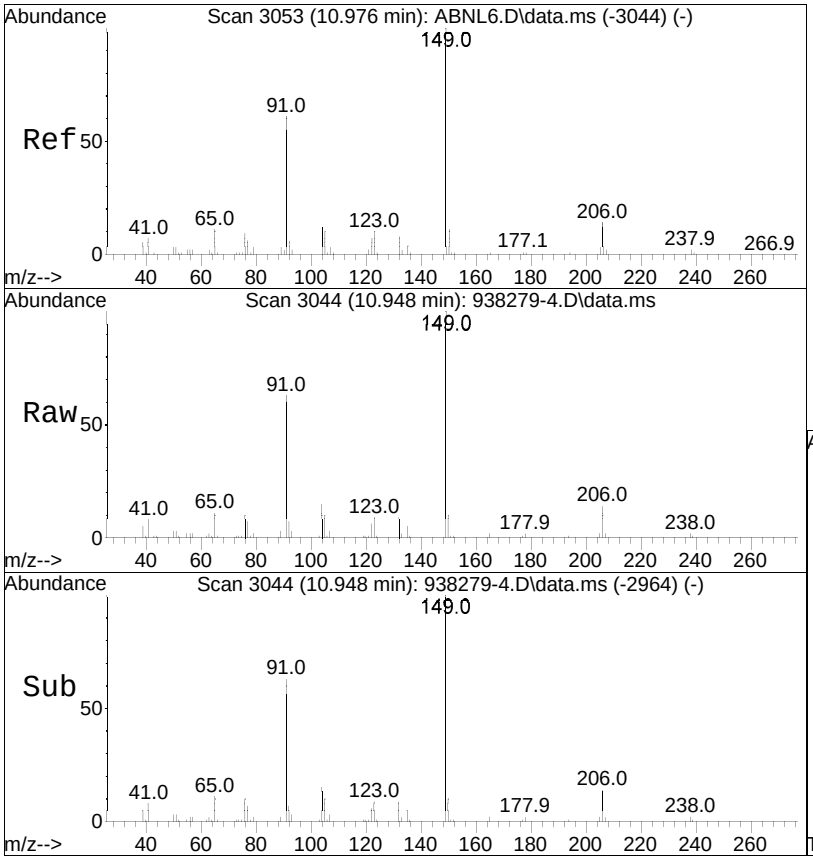


#92
Di-n-butylphthalate
Concen: 3.48 ug/ml
RT: 9.493 min Scan# 2576
Delta R.T. 0.000 min
Lab File: 938279-4.D
Acq: 24 Jun 2024 7:14 pm

Tgt Ion:149 Resp: 145658

Ion	Ratio	Lower	Upper
149	100		
150	9.0	7.0	10.6
104	4.4	4.5	6.7#

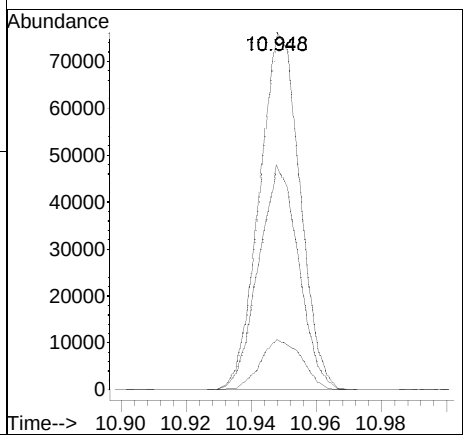


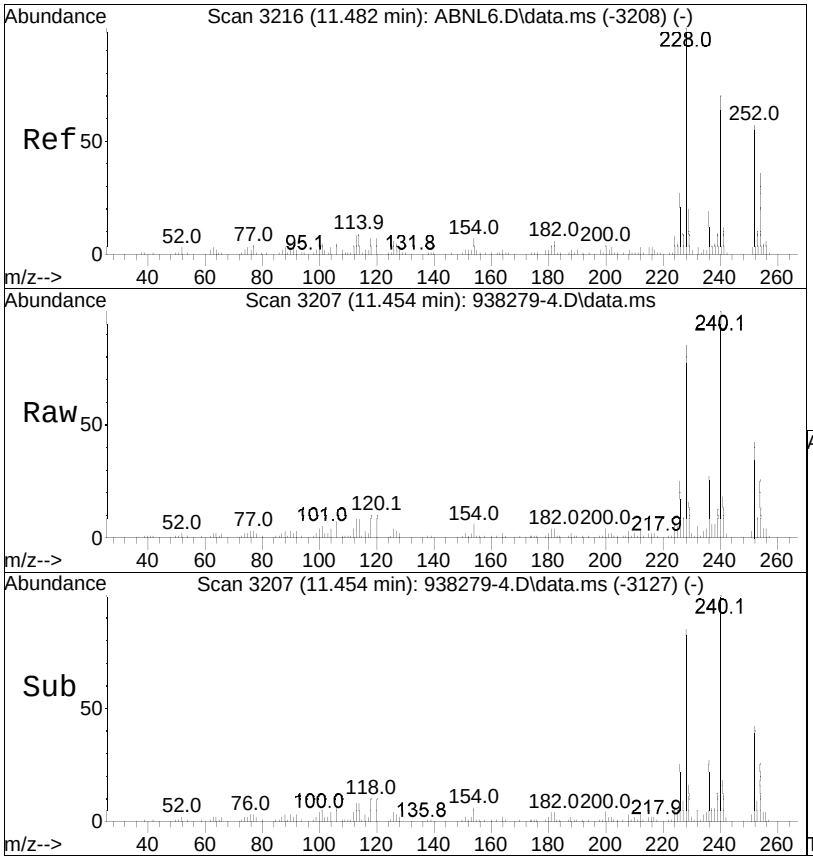


#97
Butyl benzyl phthalate
Concen: 3.48 ug/ml
RT: 10.948 min Scan# 3044
Delta R.T. 0.000 min
Lab File: 938279-4.D
Acq: 24 Jun 2024 7:14 pm

Tgt Ion:149 Resp: 65285

Ion	Ratio	Lower	Upper
149	100		
91	62.4	63.3	94.9#
206	14.7	13.9	20.9

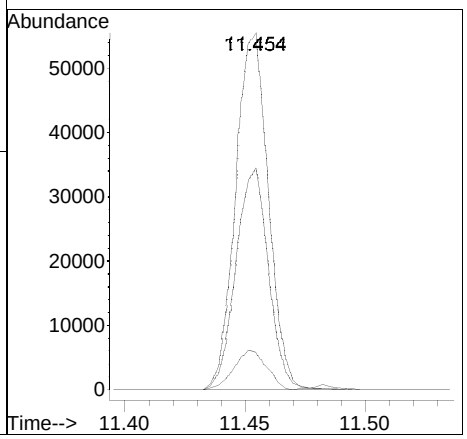


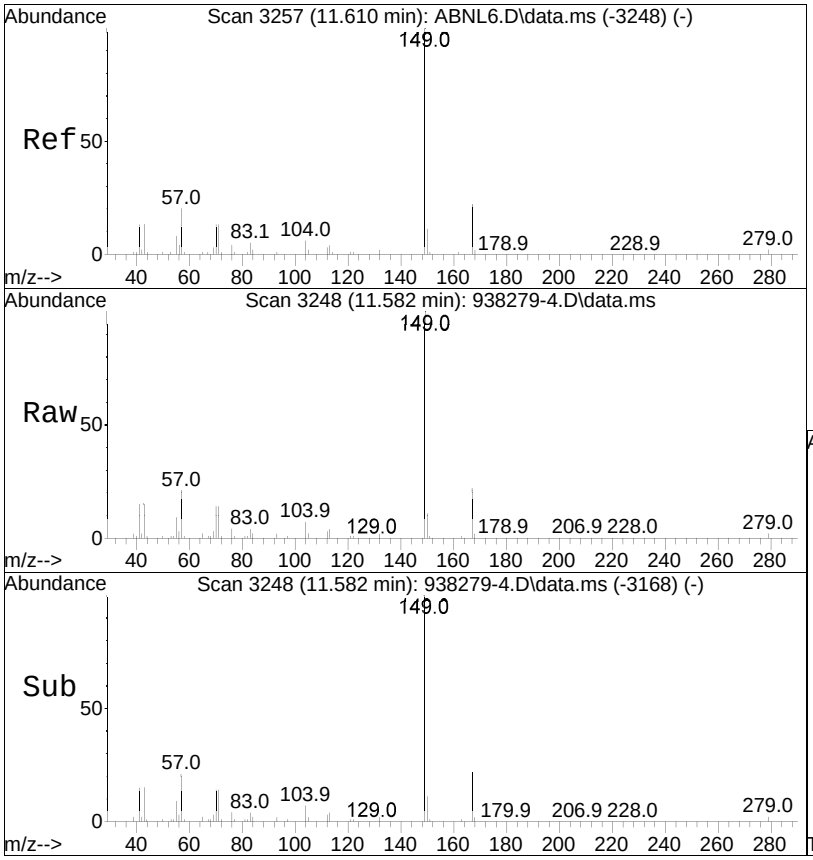


#106
3,3'-Dichlorobenzidine
Concen: 2.99 ug/ml
RT: 11.454 min Scan# 3207
Delta R.T. 0.000 min
Lab File: 938279-4.D
Acq: 24 Jun 2024 7:14 pm

Tgt Ion:252 Resp: 52261

Ion	Ratio	Lower	Upper
252	100		
126	11.2	14.5	21.7#
254	61.8	51.2	76.8

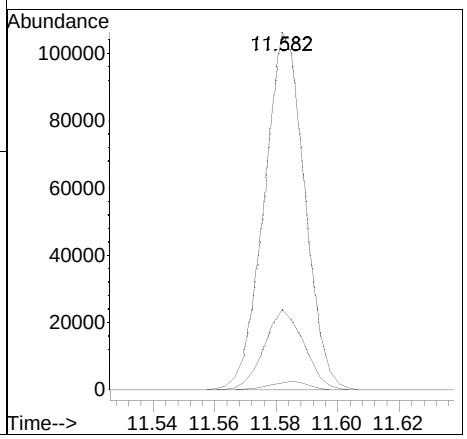


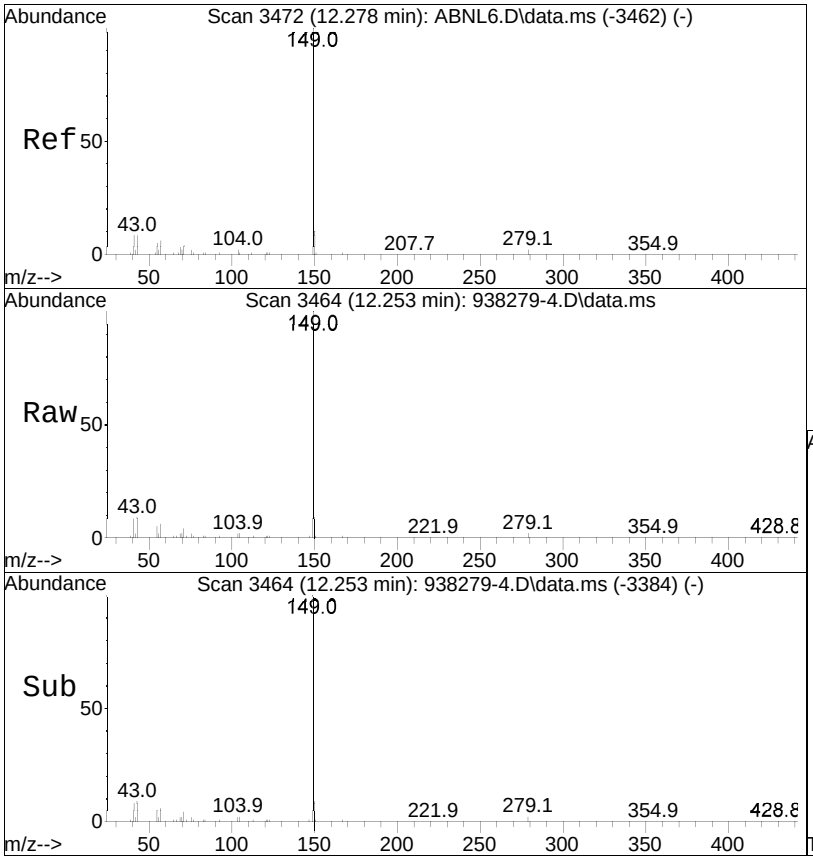


#108
Bis(2-ethylhexyl)phthalate
Concen: 3.63 ug/ml
RT: 11.582 min Scan# 3248
Delta R.T. 0.000 min
Lab File: 938279-4.D
Acq: 24 Jun 2024 7:14 pm

Tgt Ion:149 Resp: 96069

Ion	Ratio	Lower	Upper
149	100		
167	22.1	22.1	33.1
279	2.2	3.0	4.4#

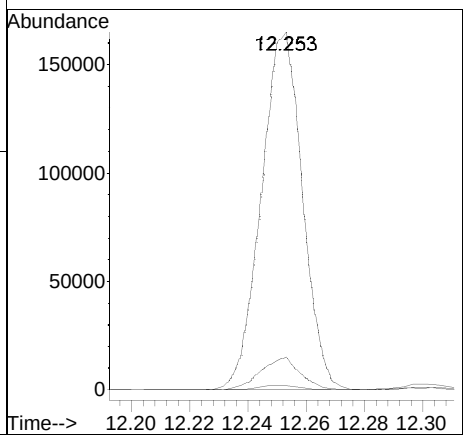




#109
Di-n-octylphthalate
Concen: 3.63 ug/ml
RT: 12.253 min Scan# 3464
Delta R.T. 0.000 min
Lab File: 938279-4.D
Acq: 24 Jun 2024 7:14 pm

Tgt Ion:149 Resp: 160375

Ion	Ratio	Lower	Upper
149	100		
43	9.0	18.8	28.2#
167	1.3	1.3	1.9



Manual Integration Report

Data Path	: I:\8270\Dakota\240624RVT\	QMethod	: FS240618RVT_14D_Dakota.m
Data File	: 938279-4.D	Operator	: Dakota:jg
Date Inj'd	: 6/24/2024 7:14 pm	Instrument	: Dakota
Sample	: WG1938279-4,32,,HNY	Quant Date	: 6/25/2024 8:13 pm

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\240624RVT\
Data File : 938279-5.D
Acq On : 24 Jun 2024 7:37 pm
Operator : Dakota:jg
Sample : WG1938279-5,32,,HNY
Misc : WG1938645,WG1938279,ical21225
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Jun 25 20:13:07 2024
Quant Method : I:\8270\Dakota\240624RVT\FS240618RVT_14D_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Jun 25 20:11:47 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\240624RVT\ABN0624.D
: 2 - I:\8270\Dakota\240624RVT\ADP0624.D
: 3 - I:\8270\Dakota\240624RVT\AP90624.D
Sub List : 8270TCL_combo_REV1 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) IS1_1,4-Dichlorobenzen...	4.505	152	31260	4.000	ug/ml	0.00
Standard Area 1 = 25255			Recovery = 123.78%			
27) IS2_1,4-Dichlorobenzen...	4.505	152	31260	4.000	ug/ml	0.00
Standard Area 3 = 26504			Recovery = 117.94%			
35) IS1_Naphthalene-d8	5.739	136	103107	4.000	ug/ml	# 0.00
Standard Area 1 = 92102			Recovery = 111.95%			
55) IS2_Naphthalene-d8	5.739	136	103107	4.000	ug/ml	# 0.00
Standard Area 3 = 100155			Recovery = 102.95%			
63) IS1_Acenaphthene-d10	7.436	164	67696	4.000	ug/ml	0.00
Standard Area 1 = 69151			Recovery = 97.90%			
83) IS2_Acenaphthene-d10	7.436	164	67696	4.000	ug/ml	0.00
Standard Area 3 = 69129			Recovery = 97.93%			
86) IS3_Acenaphthene-d10	7.436	164	67696	4.000	ug/ml	0.00
Standard Area 2 = 63201			Recovery = 107.11%			
88) IS1_Phenanthrene-d10	8.856	188	148411	4.000	ug/ml	0.00
Standard Area 1 = 156078			Recovery = 95.09%			
100) IS3_Phenanthrene-d10	8.856	188	148411	4.000	ug/ml	0.00
Standard Area 2 = 157977			Recovery = 93.94%			
104) IS1_Chrysene-d12	11.458	240	144928	4.000	ug/ml	0.00
Standard Area 1 = 161664			Recovery = 89.65%			
113) IS1_Perylene-d12	12.903	264	172929	4.000	ug/ml	0.00
Standard Area 1 = 190313			Recovery = 90.87%			
System Monitoring Compounds						
4) 2-Fluorophenol	3.234	112	21775	2.711	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 135.55%#			
7) Phenol-d6	4.194	99	24076	2.375	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 118.75%#			
19) Nitrobenzene-d5	5.046	82	14283	1.350	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 135.00%#			
46) 2-Fluorobiphenyl	6.808	172	37848	1.464	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 146.40%#			
79) 2,4,6-Tribromophenol	8.194	330	14205	3.211	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 160.55%#			
96) 4-Terphenyl-d14	10.426	244	56824	1.472	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 147.20%#			

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\240624RVT\
Data File : 938279-5.D
Acq On : 24 Jun 2024 7:37 pm
Operator : Dakota:jg
Sample : WG1938279-5,32,,HNY
Misc : WG1938645,WG1938279,ical21225
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Jun 25 20:13:07 2024
Quant Method : I:\8270\Dakota\240624RVT\FS240618RVT_14D_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Jun 25 20:11:47 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\240624RVT\ABN0624.D
: 2 - I:\8270\Dakota\240624RVT\ADP0624.D
: 3 - I:\8270\Dakota\240624RVT\AP90624.D
Sub List : 8270TCL_combo_REV1 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Target Compounds						Qvalue
6) 2-Chlorophenol	4.300	128	26224	2.917	ug/ml	91
8) Phenol	4.206	94	28191	2.386	ug/ml	96
9) Bis(2-chloroethyl)ether	4.272	93	21866	2.823	ug/ml	98
14) Bis(2-chloroisopropyl)...	4.803	45	31121	2.694	ug/ml#	37
15) 2-Methylphenol	4.797	108	23462	2.890	ug/ml	100
17) n-Nitrosodi-n-propylamine	4.931	70	19780	2.775	ug/ml#	87
18) 3-Methylphenol/4-Methy...	4.952	108	23535	2.749	ug/ml	94
20) Nitrobenzene	5.064	77	27835	2.744	ug/ml	97
21) Isophorone	5.307	82	49162	2.765	ug/ml#	92
22) 2-Nitrophenol	5.381	139	14344	2.851	ug/ml	89
23) 2,4-Dimethylphenol	5.462	107	20497	2.391	ug/ml	99
24) Bis(2-chloroethoxy)met...	5.546	93	30912	2.828	ug/ml#	95
25) 2,4-Dichlorophenol	5.621	162	28931	2.992	ug/ml#	93
28) Benzaldehyde	4.070	105	20295	2.507	ug/ml	95
29) Acetophenone	4.909	105	37780	2.729	ug/ml#	78
38) 4-Chloroaniline	5.832	65	9329	2.851	ug/ml	99
40) p-Chloro-m-cresol	6.332	107	23994	3.200	ug/ml	97
43) Hexachlorocyclopentadiene	6.609	237	20250	2.708	ug/ml	98
44) 2,4,6-Trichlorophenol	6.724	196	23110	3.029	ug/ml	99
45) 2,4,5-Trichlorophenol	6.752	196	26741	3.278	ug/ml	96
48) 2-Nitroaniline	7.010	138	17167	3.009	ug/ml	86
51) Dimethyl phthalate	7.215	163	74183	2.787	ug/ml#	98
53) 2,6-Dinitrotoluene	7.255	165	15052	2.865	ug/ml#	79
60) Caprolactam	6.127	55	5252	1.523	ug/ml#	66
61) 1,2,4,5-Tetrachloroben...	6.606	216	35818	2.782	ug/ml#	96
62) Biphenyl	6.895	154	75169	2.728	ug/ml	97
64) 3-Nitroaniline	7.408	138	15040	2.994	ug/ml#	93
66) 2,4-Dinitrophenol	7.510	184	9202	2.684	ug/ml	85
67) Dibenzofuran	7.635	168	94596	2.937	ug/ml	89
68) 2,4-Dinitrotoluene	7.641	165	19969	2.919	ug/ml	94
69) 4-Nitrophenol	7.600	65	12229	2.906	ug/ml#	88
71) 2,3,4,6-Tetrachlorophenol	7.765	232	21395	3.154	ug/ml	98
72) Diethyl phthalate	7.902	149	74229	2.843	ug/ml	98
74) 4-Chlorophenyl phenyl ...	7.986	204	38821	3.110	ug/ml#	81
75) 4-Nitroaniline	7.992	138	14104	2.851	ug/ml#	81
76) 4,6-Dinitro-o-cresol	8.029	198	12189	2.825	ug/ml#	60

Data Path : I:\8270\Dakota\240624RVT\
Data File : 938279-5.D
Acq On : 24 Jun 2024 7:37 pm
Operator : Dakota:jg
Sample : WG1938279-5,32,,HNY
Misc : WG1938645,WG1938279,ical21225
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Jun 25 20:13:07 2024
Quant Method : I:\8270\Dakota\240624RVT\FS240618RVT_14D_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Jun 25 20:11:47 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\240624RVT\ABN0624.D
: 2 - I:\8270\Dakota\240624RVT\ADP0624.D
: 3 - I:\8270\Dakota\240624RVT\AP90624.D
Sub List : 8270TCL_combo_REV1 - TCL/CT/MA

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
77)	NDPA/DPA	8.101	169	62789	2.985	ug/ml	92
80)	4-Bromophenyl phenyl e...	8.452	248	24004	2.890	ug/ml#	79
87)	Atrazine	8.639	200	20617	2.707	ug/ml	92
91)	Carbazole	9.095	167	113186	3.088	ug/ml	99
92)	Di-n-butylphthalate	9.493	149	127109	3.020	ug/ml#	98
97)	Butyl benzyl phthalate	10.948	149	56593	2.993	ug/ml	86
106)	3,3'-Dichlorobenzidine	11.455	252	50047	2.790	ug/ml#	96
108)	Bis(2-ethylhexyl)phtha...	11.582	149	85679	3.152	ug/ml#	92
109)	Di-n-octylphthalate	12.250	149	145114	3.202	ug/ml#	72

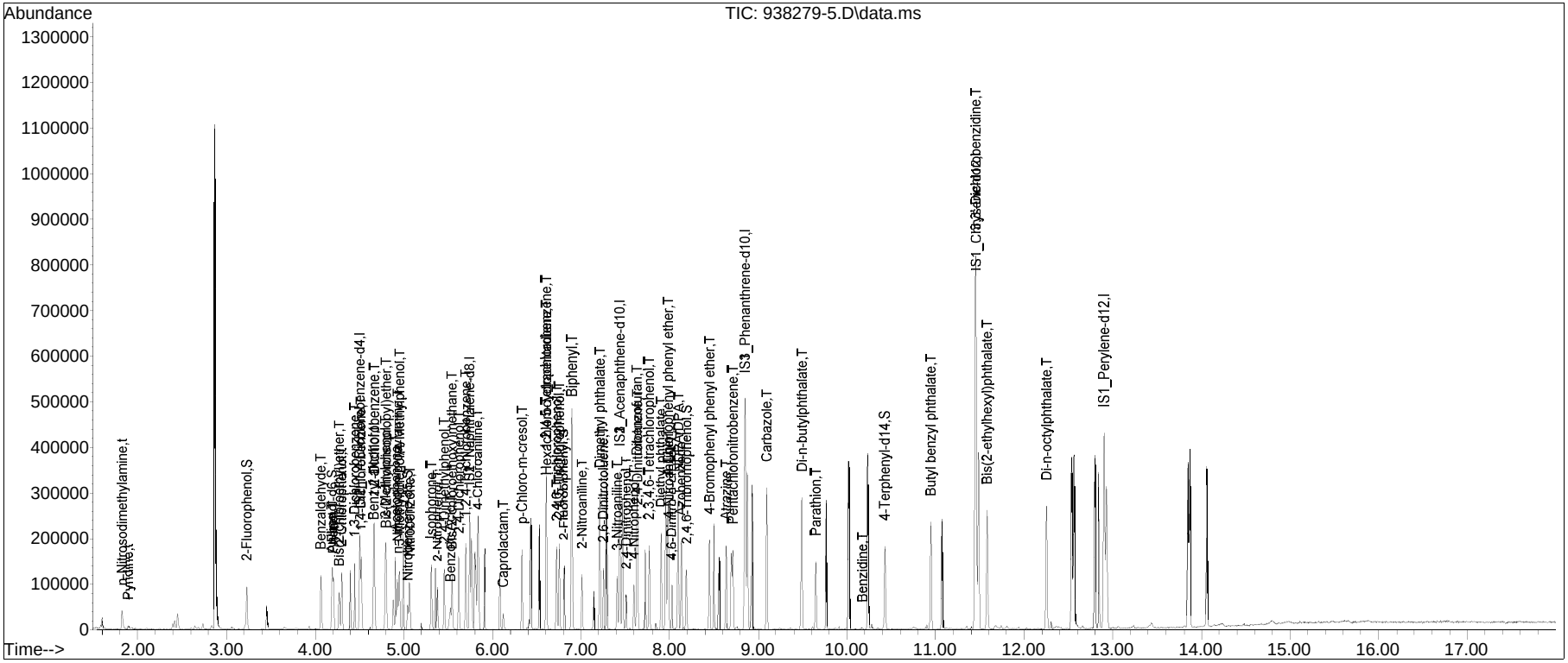
(#) = qualifier out of range (m) = manual integration (+) = signals summed

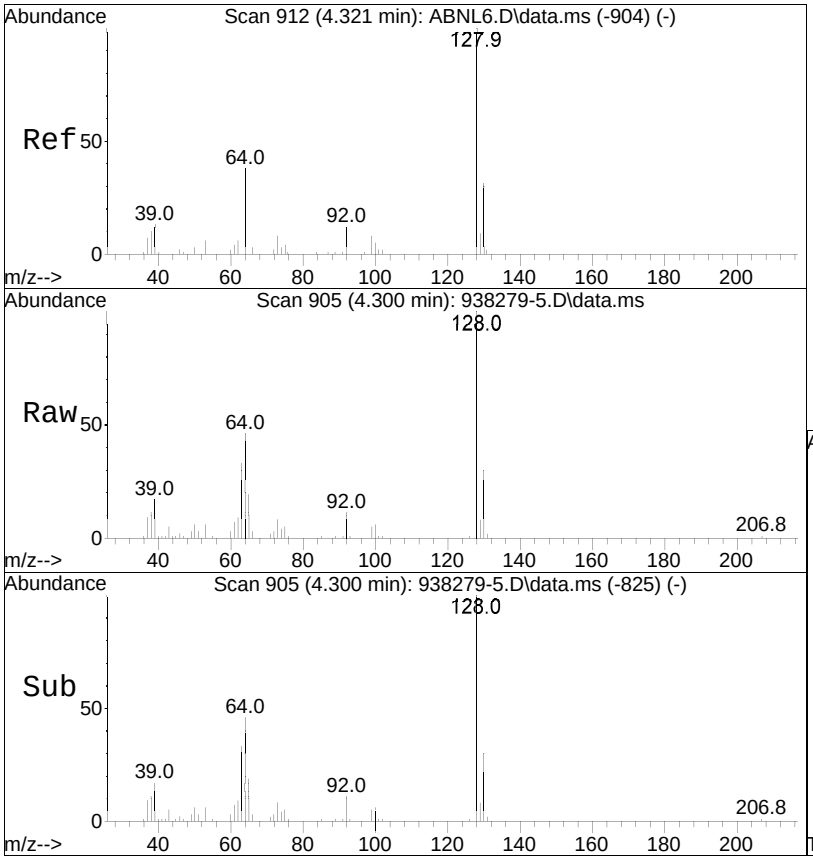
Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\240624RVT\
Data File : 938279-5.D
Acq On : 24 Jun 2024 7:37 pm
Operator : Dakota:jg
Sample : WG1938279-5,32,,HNY
Misc : WG1938645,WG1938279,ical21225
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Jun 25 20:13:07 2024
Quant Method : I:\8270\Dakota\240624RVT\FS240618RVT_14D_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Jun 25 20:11:47 2024
Response via : Initial Calibration

Sub List : 8270TCL_combo_REV1 - TCL/CT/MAP90624.D•

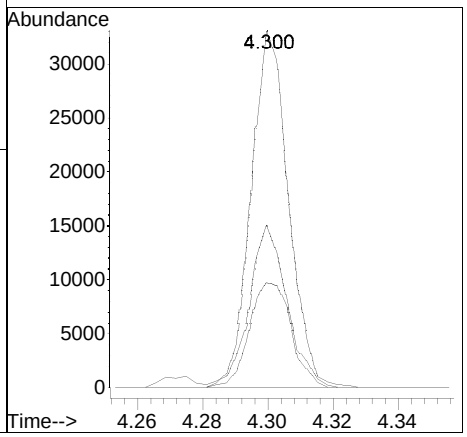


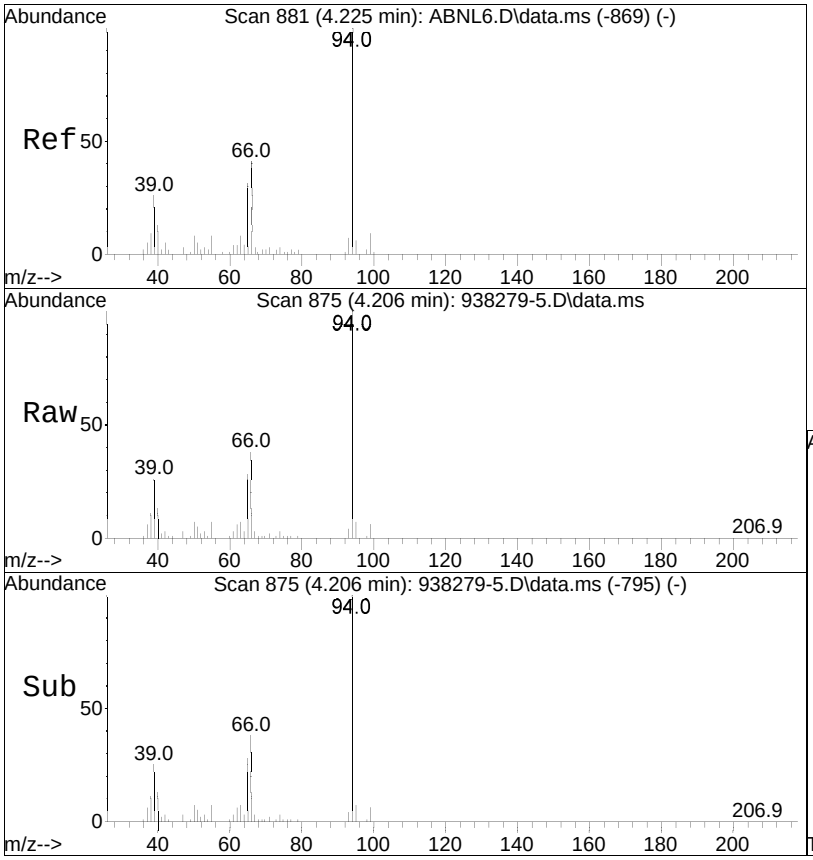


#6
2-Chlorophenol
Concen: 2.92 ug/ml
RT: 4.300 min Scan# 905
Delta R.T. 0.000 min
Lab File: 938279-5.D
Acq: 24 Jun 2024 7:37 pm

Tgt Ion:128 Resp: 26224

Ion	Ratio	Lower	Upper
128	100		
64	46.2	45.1	67.7
130	33.0	26.2	39.4

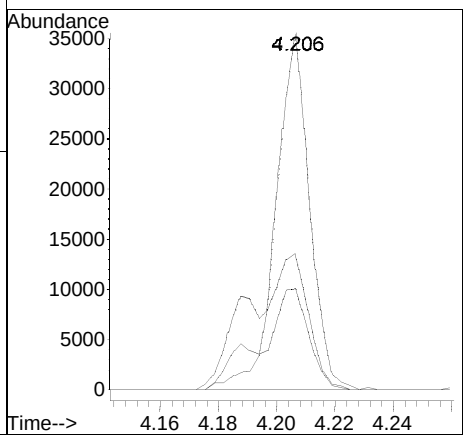


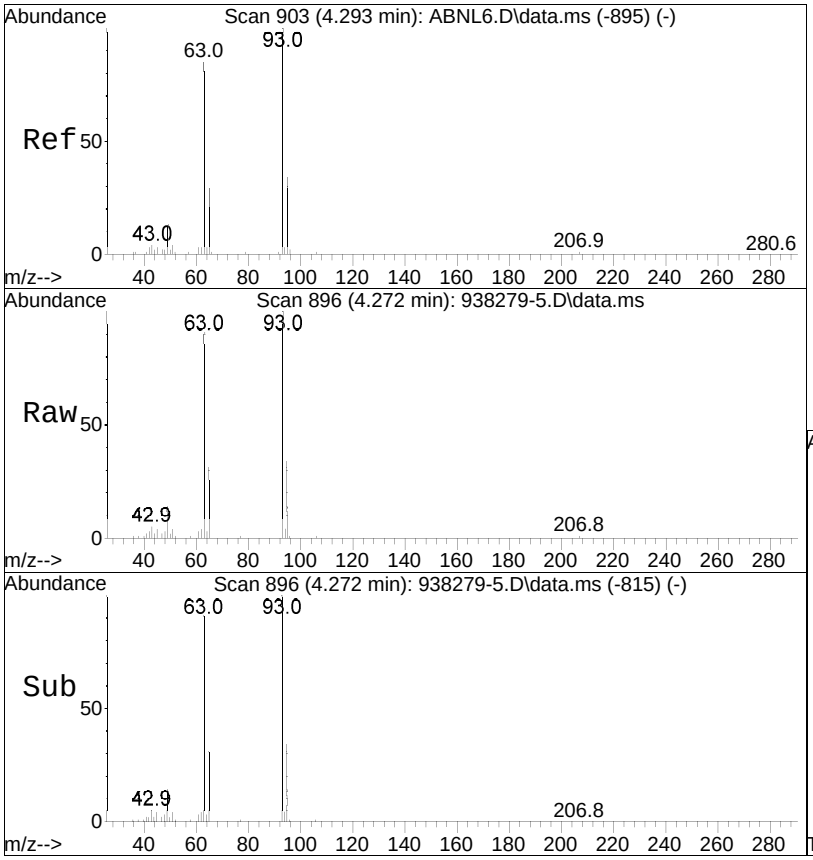


#8
Phenol
Concen: 2.39 ug/ml
RT: 4.206 min Scan# 875
Delta R.T. 0.000 min
Lab File: 938279-5.D
Acq: 24 Jun 2024 7:37 pm

Tgt Ion: 94 Resp: 28191

Ion	Ratio	Lower	Upper
94	100		
65	29.1	26.0	39.0
66	41.3	33.8	50.8

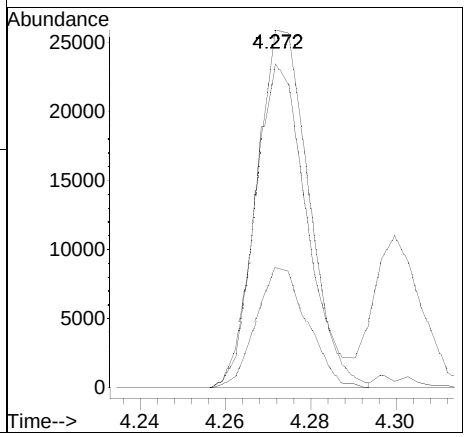


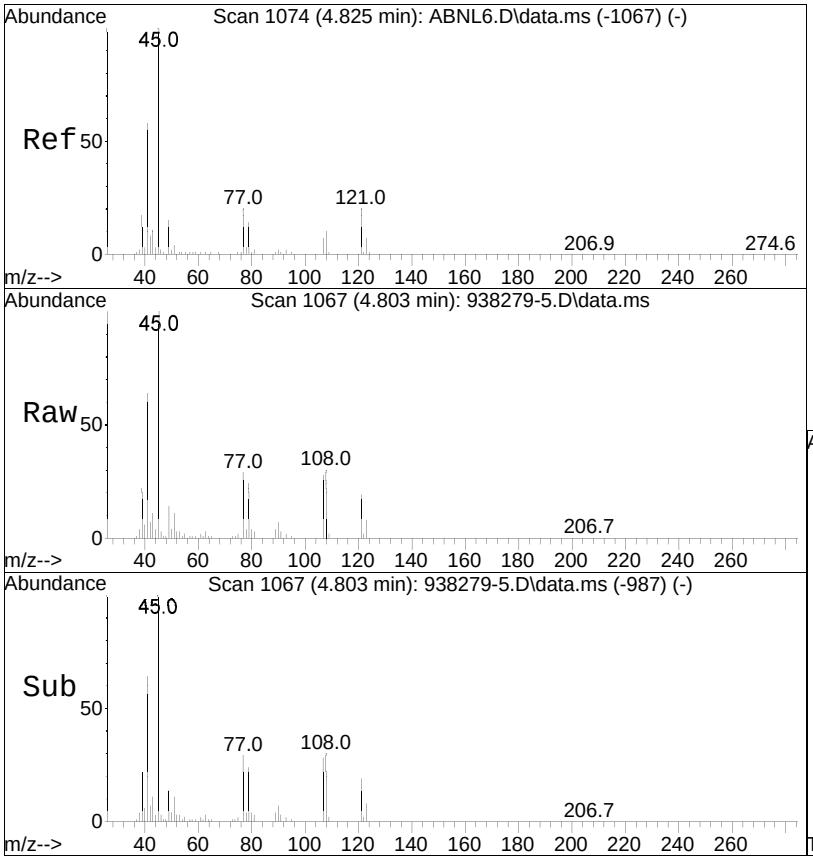


#9
Bis(2-chloroethyl)ether
Concen: 2.82 ug/ml
RT: 4.272 min Scan# 896
Delta R.T. 0.000 min
Lab File: 938279-5.D
Acq: 24 Jun 2024 7:37 pm

Tgt Ion: 93 Resp: 21866

Ion	Ratio	Lower	Upper
93	100		
63	91.5	74.6	111.8
95	33.2	25.9	38.9

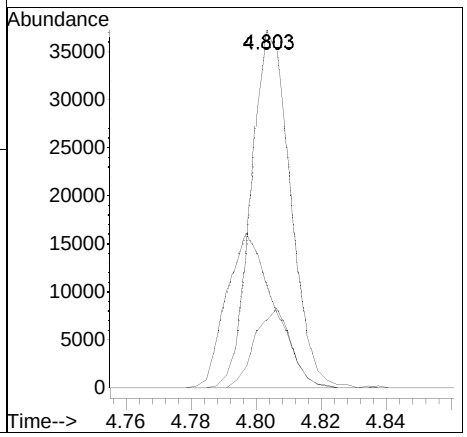


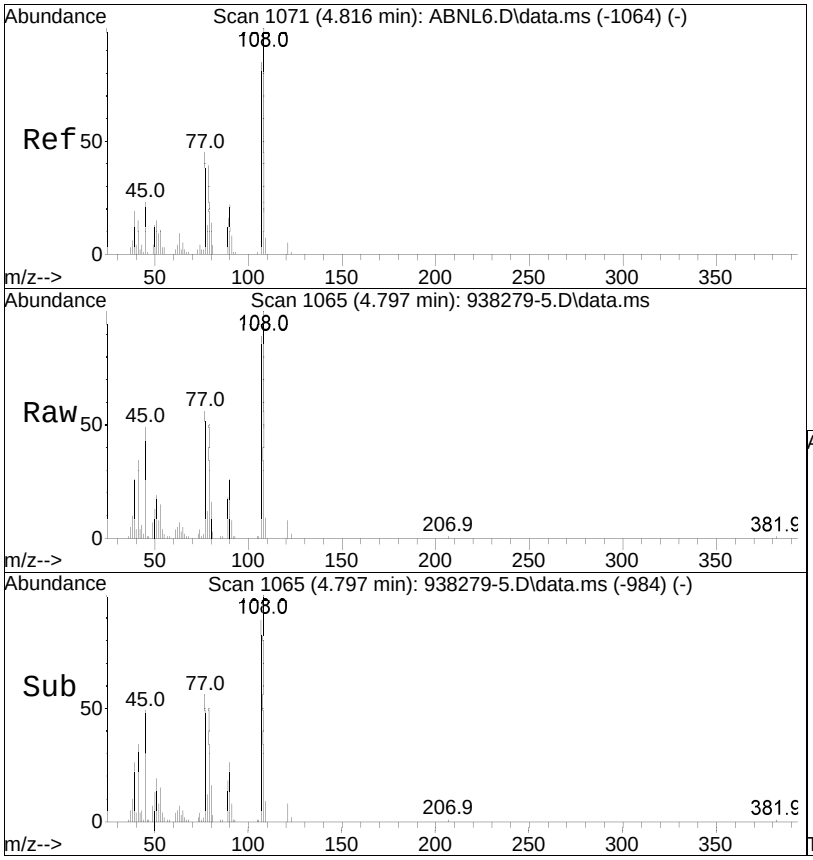


#14
Bis(2-chloroisopropyl)ether
Concen: 2.69 ug/ml
RT: 4.803 min Scan# 1067
Delta R.T. 0.000 min
Lab File: 938279-5.D
Acq: 24 Jun 2024 7:37 pm

Tgt Ion: 45 Resp: 31121

Ion	Ratio	Lower	Upper
45	100		
121	20.8	9.8	14.6#
77	52.2	6.1	9.1#

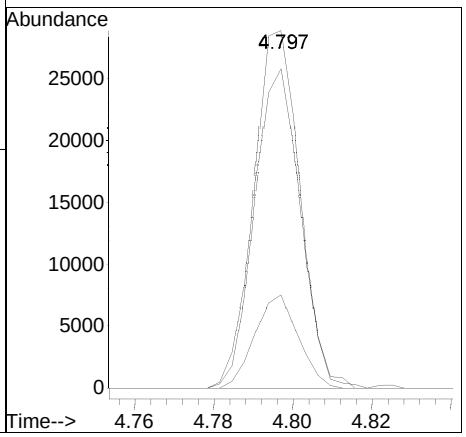


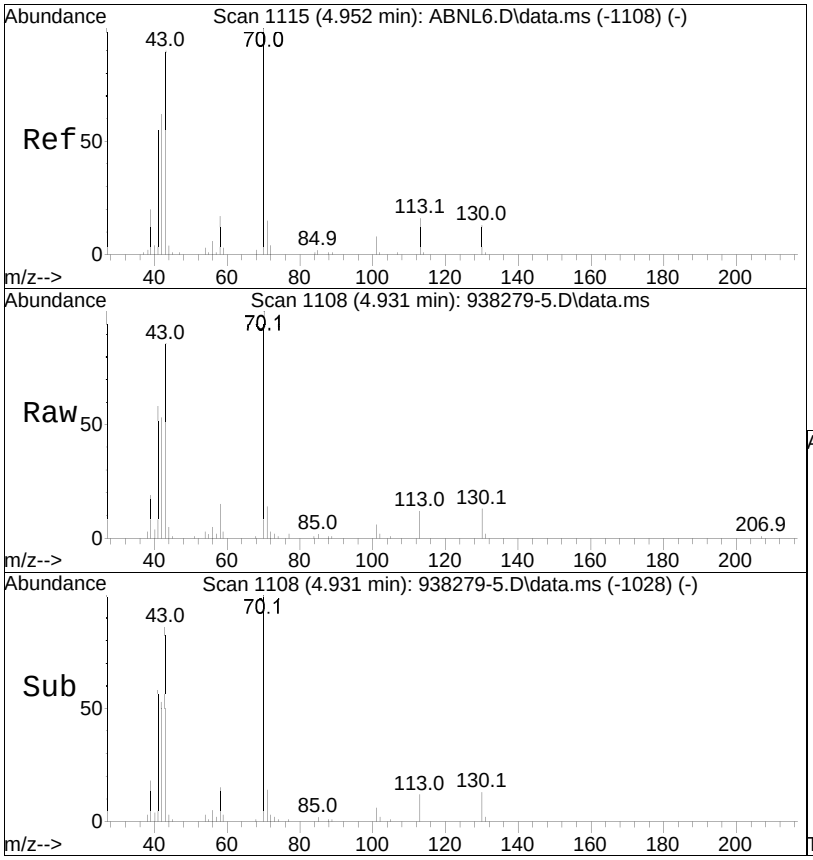


#15
2-Methylphenol
Concen: 2.89 ug/ml
RT: 4.797 min Scan# 1065
Delta R.T. 0.003 min
Lab File: 938279-5.D
Acq: 24 Jun 2024 7:37 pm

Tgt Ion:108 Resp: 23462

Ion	Ratio	Lower	Upper
108	100		
107	88.3	70.7	106.1
90	24.4	18.7	28.1

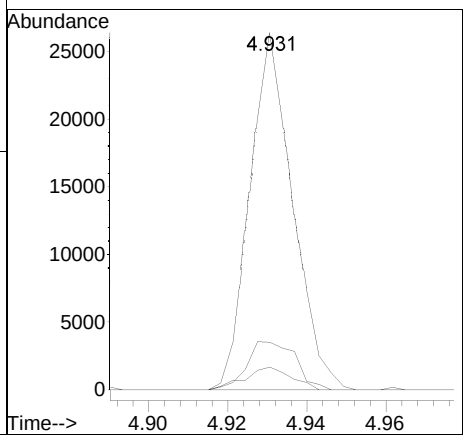


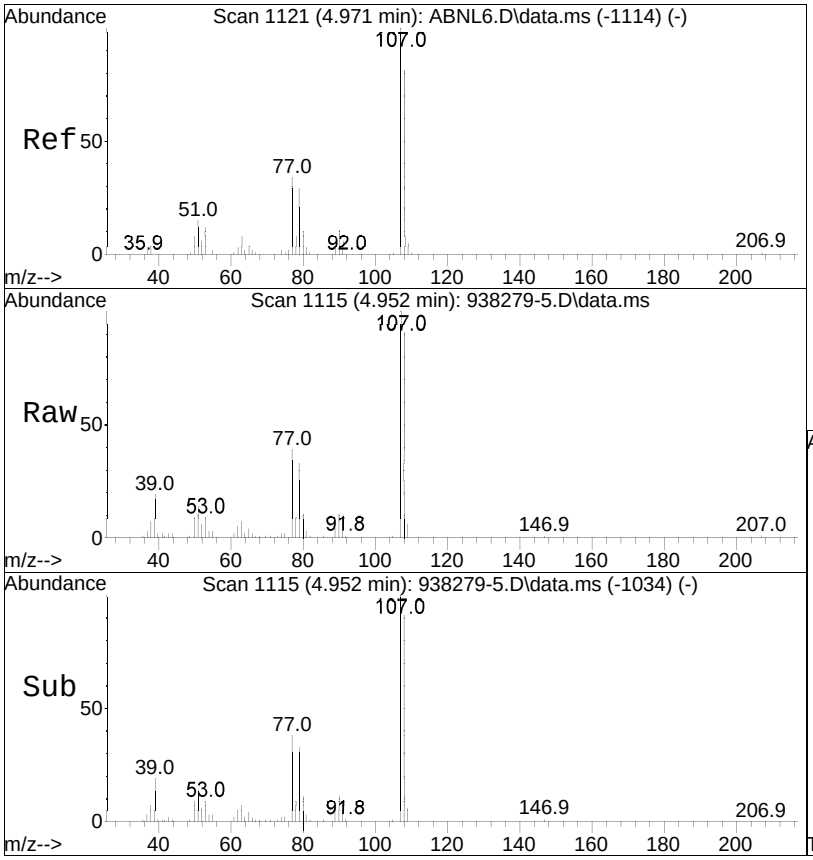


#17
n-Nitrosodi-n-propylamine
Concen: 2.77 ug/ml
RT: 4.931 min Scan# 1108
Delta R.T. 0.000 min
Lab File: 938279-5.D
Acq: 24 Jun 2024 7:37 pm

Tgt Ion: 70 Resp: 19780

Ion	Ratio	Lower	Upper
70	100		
130	15.3	18.2	27.4#
101	6.9	7.8	11.8#

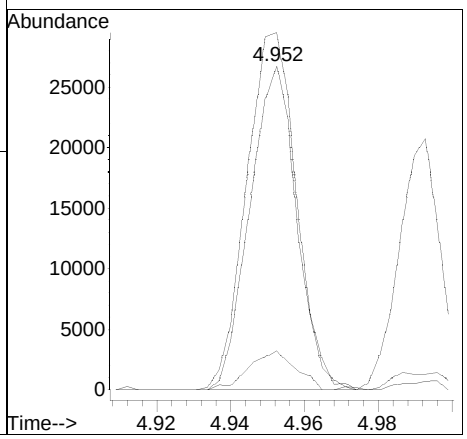


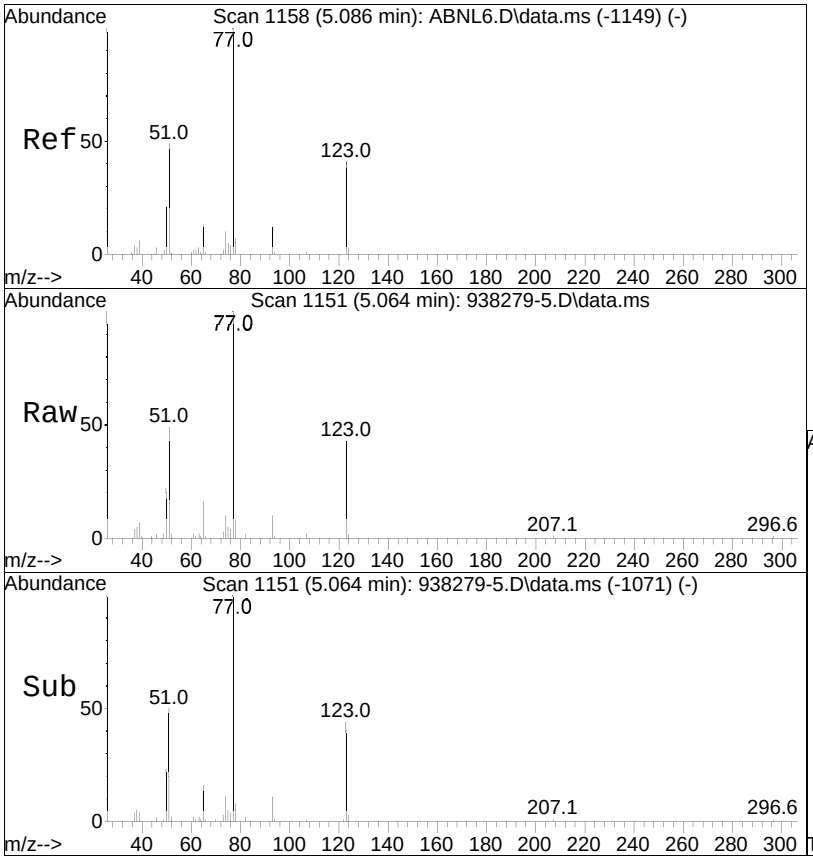


#18
3-Methylphenol/4-Methylphenol
Concen: 2.75 ug/ml
RT: 4.952 min Scan# 1115
Delta R.T. 0.003 min
Lab File: 938279-5.D
Acq: 24 Jun 2024 7:37 pm

Tgt Ion:108 Resp: 23535

Ion	Ratio	Lower	Upper
108	100		
107	117.8	88.6	132.8
90	11.9	8.8	13.2

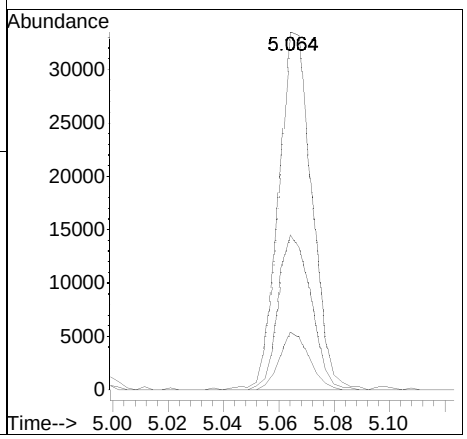


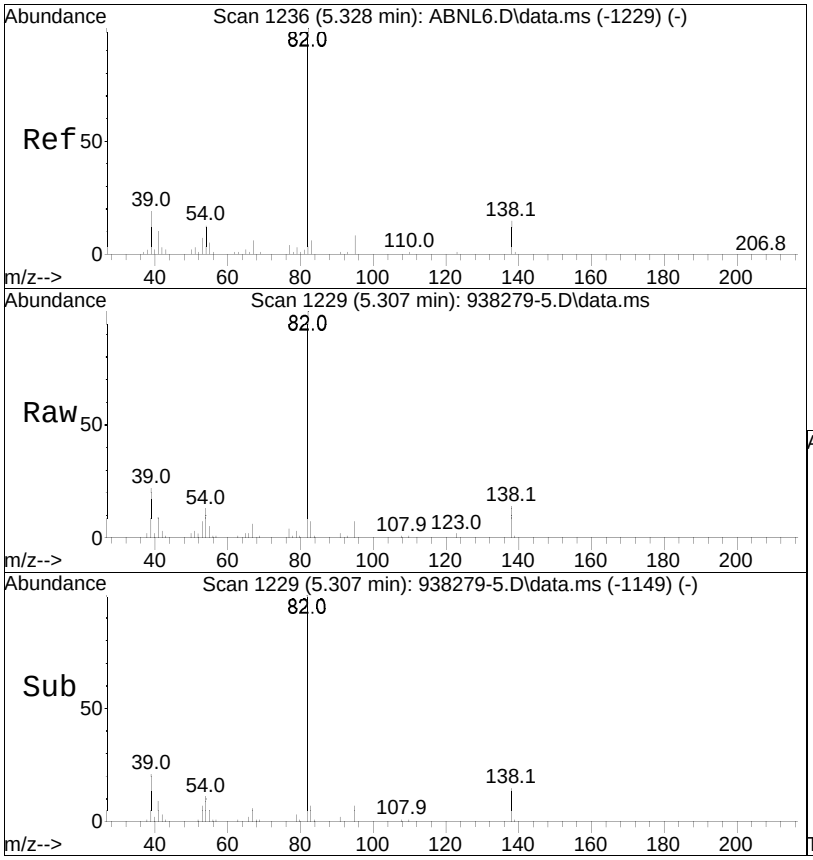


#20
Nitrobenzene
Concen: 2.74 ug/ml
RT: 5.064 min Scan# 1151
Delta R.T. 0.000 min
Lab File: 938279-5.D
Acq: 24 Jun 2024 7:37 pm

Tgt Ion: 77 Resp: 27835

Ion	Ratio	Lower	Upper
77	100		
123	42.7	36.3	54.5
65	14.4	11.6	17.4

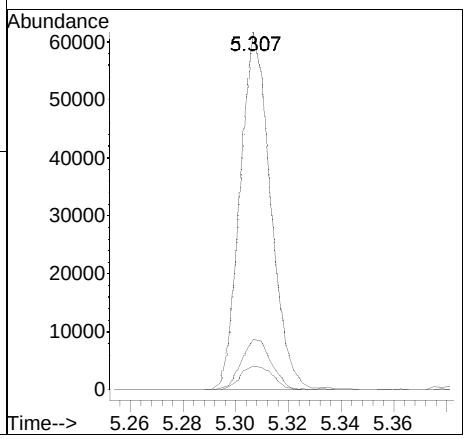


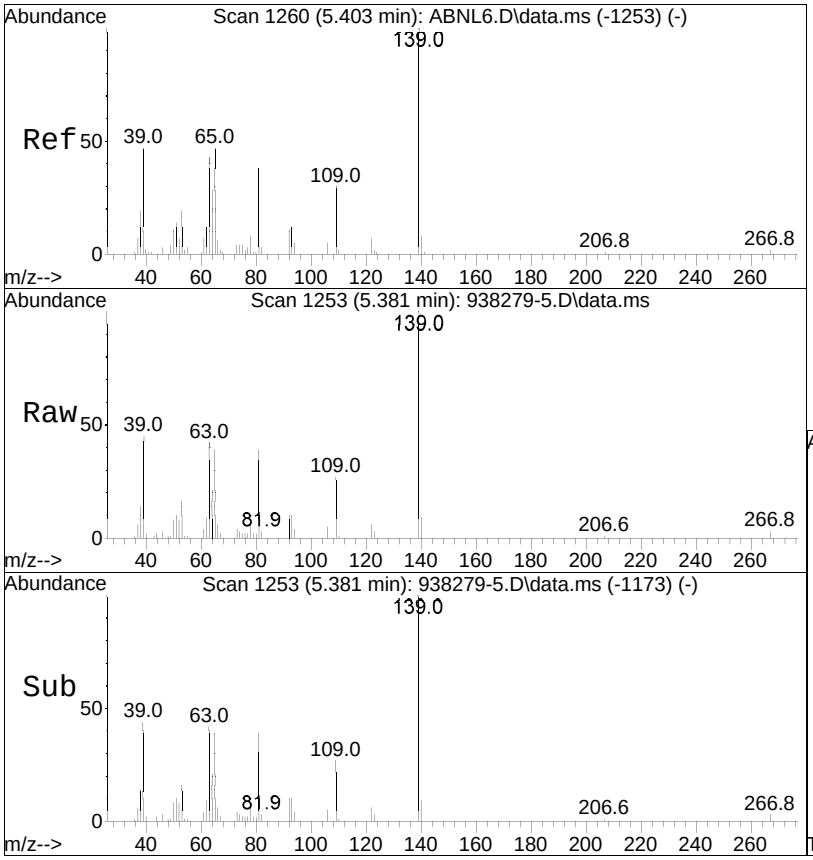


#21
Isophorone
Concen: 2.77 ug/ml
RT: 5.307 min Scan# 1229
Delta R.T. 0.000 min
Lab File: 938279-5.D
Acq: 24 Jun 2024 7:37 pm

Tgt Ion: 82 Resp: 49162

Ion	Ratio	Lower	Upper
82	100		
138	14.1	14.7	22.1#
95	7.2	5.2	7.8

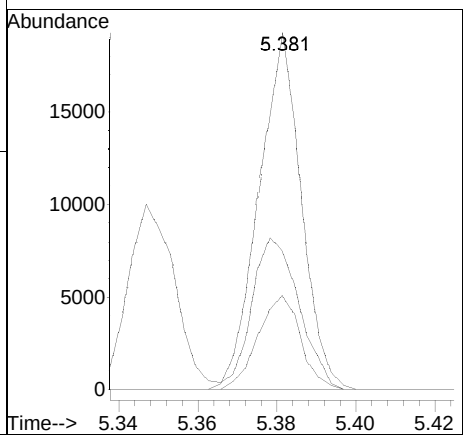


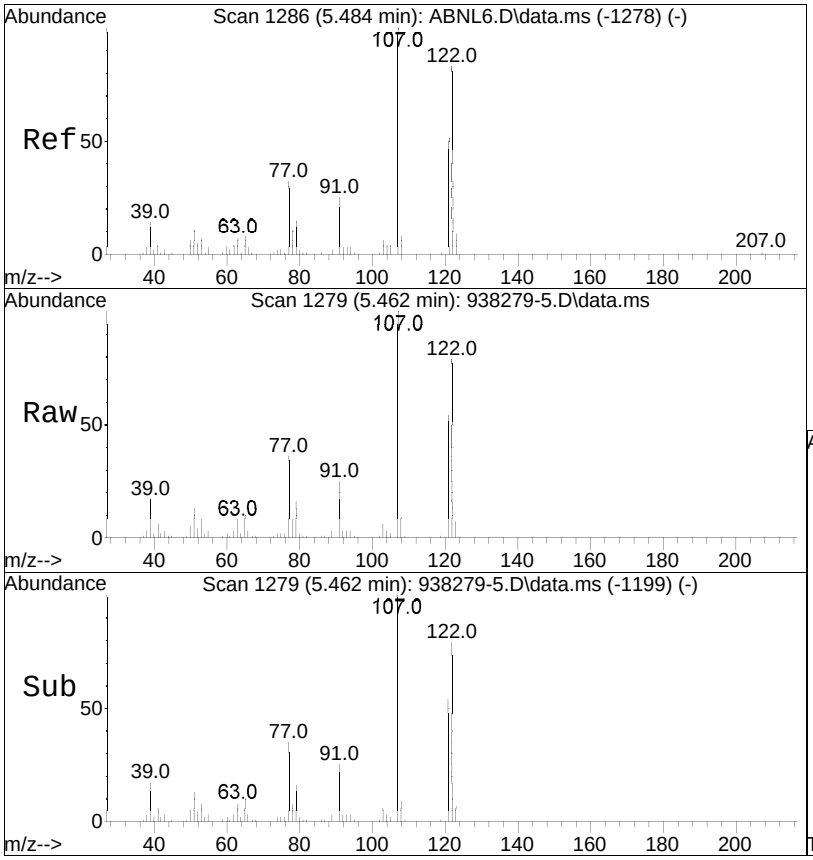


#22
2-Nitrophenol
Concen: 2.85 ug/ml
RT: 5.381 min Scan# 1253
Delta R.T. 0.000 min
Lab File: 938279-5.D
Acq: 24 Jun 2024 7:37 pm

Tgt Ion:139 Resp: 14344

Ion	Ratio	Lower	Upper
139	100		
109	26.5	19.4	29.0
65	47.2	46.1	69.1

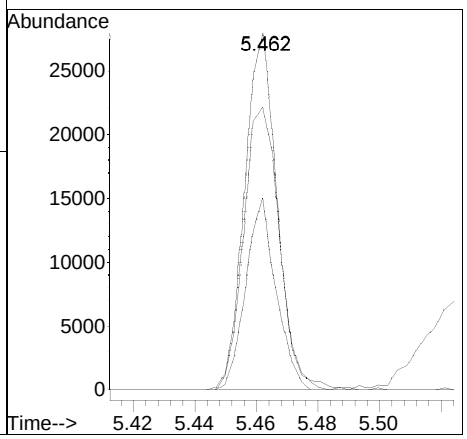


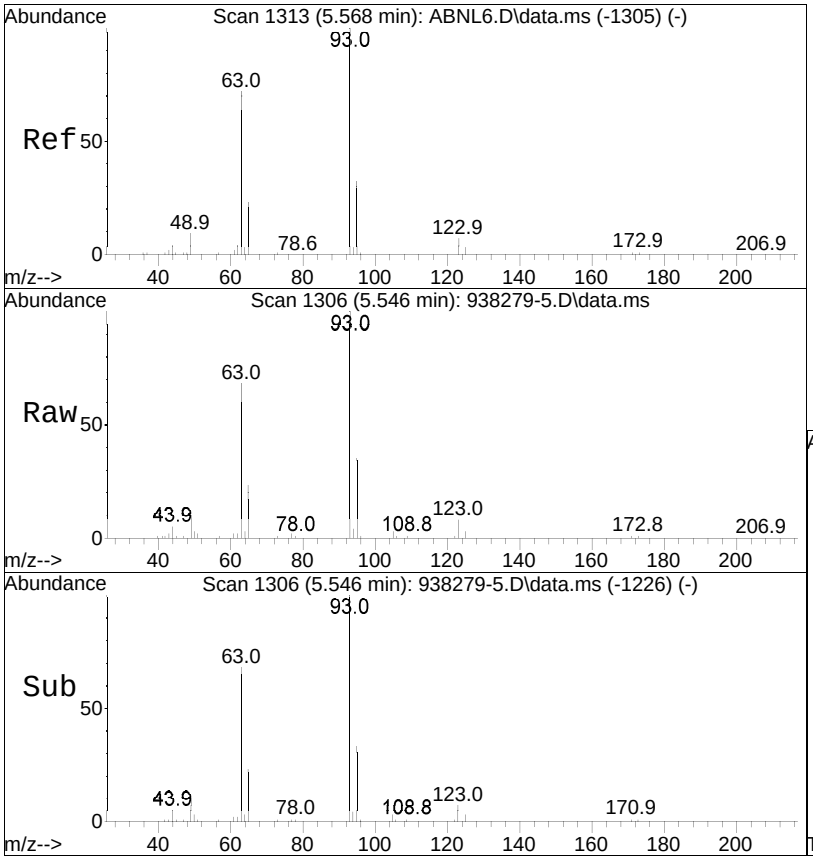


#23
2,4-Dimethylphenol
Concen: 2.39 ug/ml
RT: 5.462 min Scan# 1279
Delta R.T. 0.000 min
Lab File: 938279-5.D
Acq: 24 Jun 2024 7:37 pm

Tgt Ion:107 Resp: 20497

Ion	Ratio	Lower	Upper
107	100		
121	50.0	40.0	60.0
122	86.1	70.2	105.4

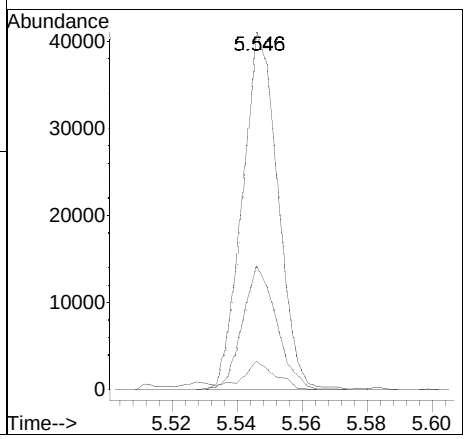


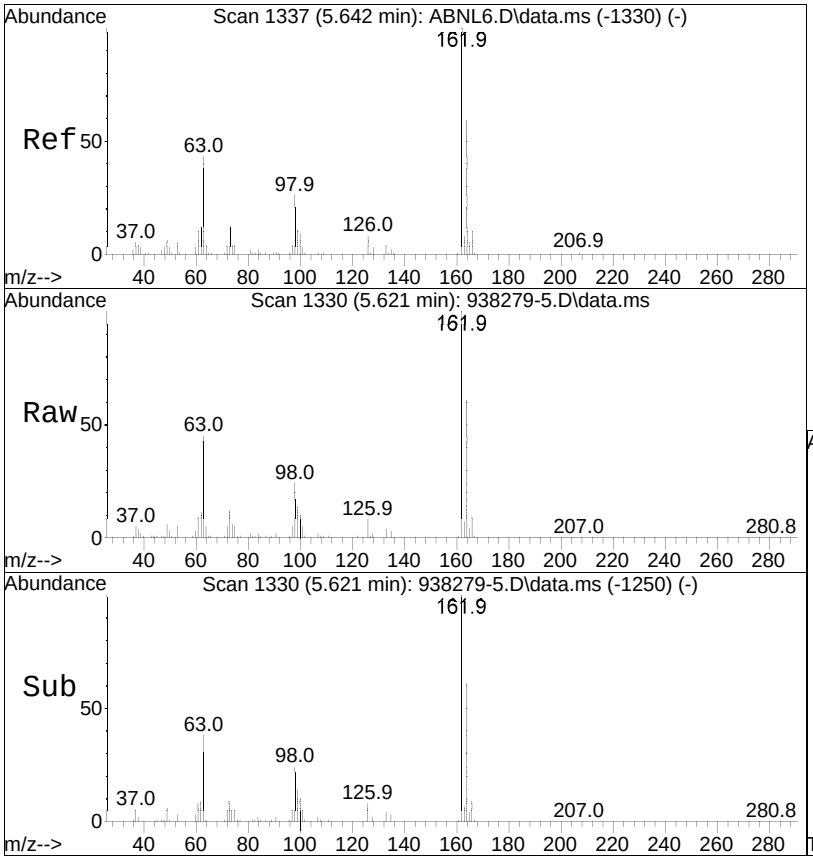


#24
Bis(2-chloroethoxy)methane
Concen: 2.83 ug/ml
RT: 5.546 min Scan# 1306
Delta R.T. 0.000 min
Lab File: 938279-5.D
Acq: 24 Jun 2024 7:37 pm

Tgt Ion: 93 Resp: 30912

Ion	Ratio	Lower	Upper
93	100		
95	33.5	25.8	38.8
123	7.4	10.1	15.1#

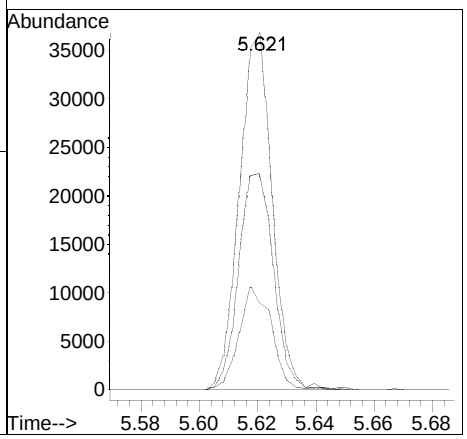


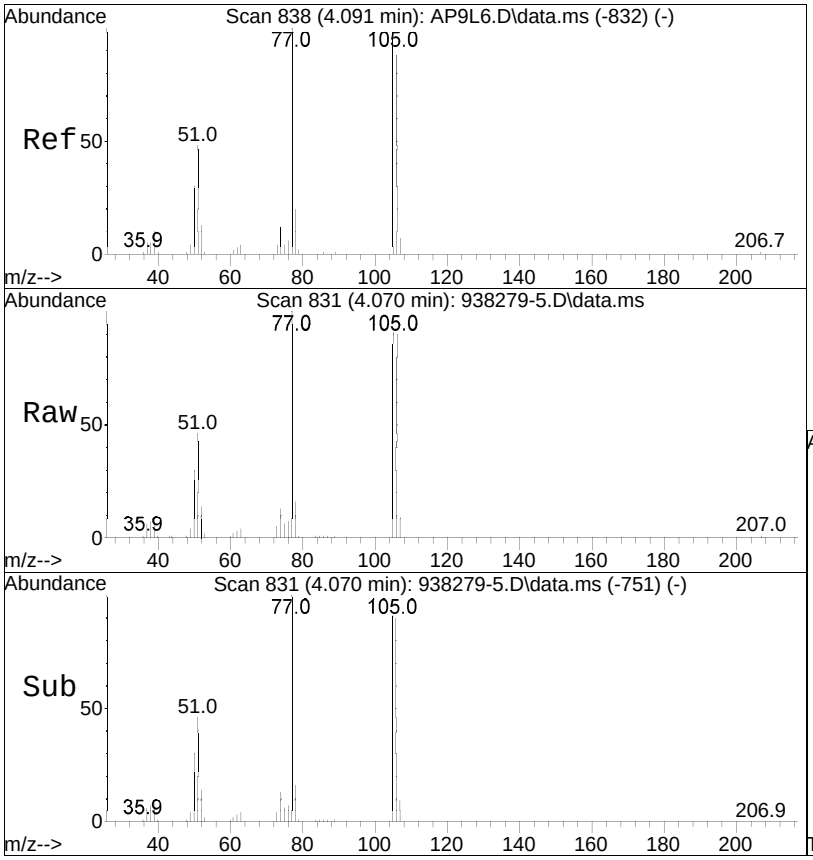


#25
2,4-Dichlorophenol
Concen: 2.99 ug/ml
RT: 5.621 min Scan# 1330
Delta R.T. 0.000 min
Lab File: 938279-5.D
Acq: 24 Jun 2024 7:37 pm

Tgt Ion:162 Resp: 28931

Ion	Ratio	Lower	Upper
162	100		
164	64.0	51.0	76.4
98	28.8	32.2	48.2#

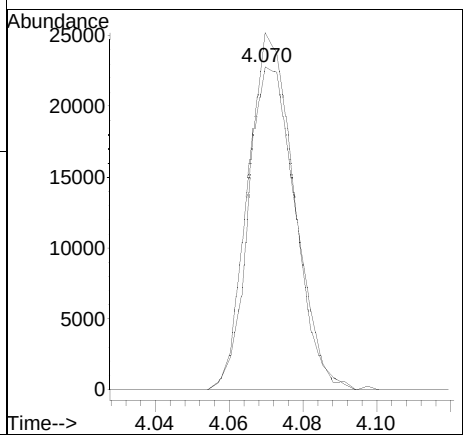


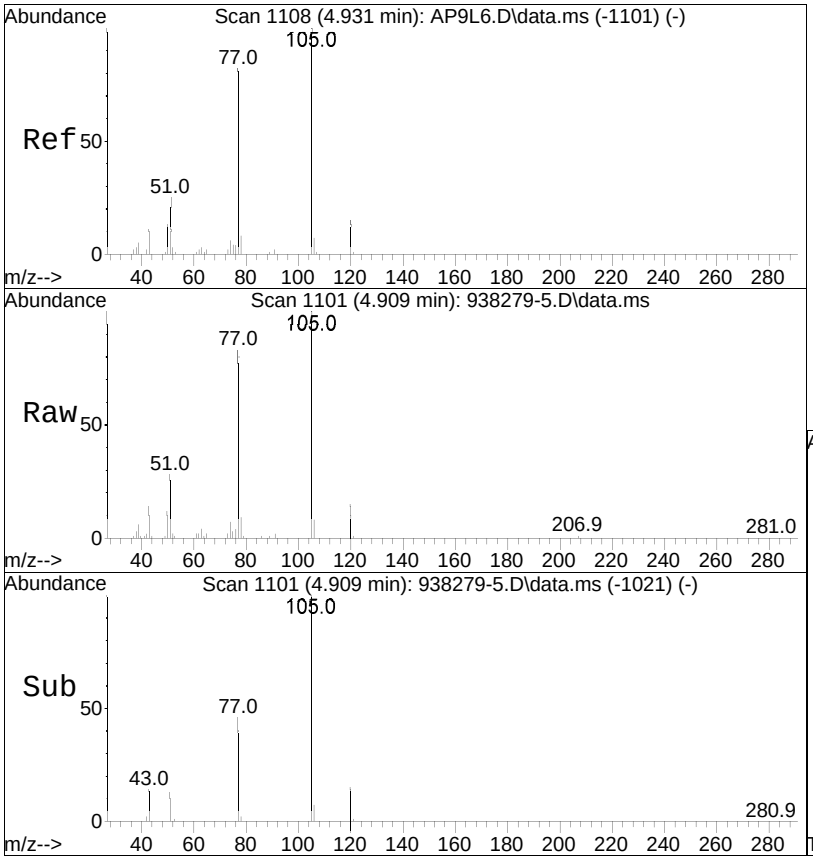


#28
Benzaldehyde
Concen: 2.51 ug/ml
RT: 4.070 min Scan# 831
Delta R.T. -0.000 min
Lab File: 938279-5.D
Acq: 24 Jun 2024 7:37 pm

Tgt Ion:105 Resp: 20295

Ion	Ratio	Lower	Upper
105	100		
77	107.4	82.2	123.4

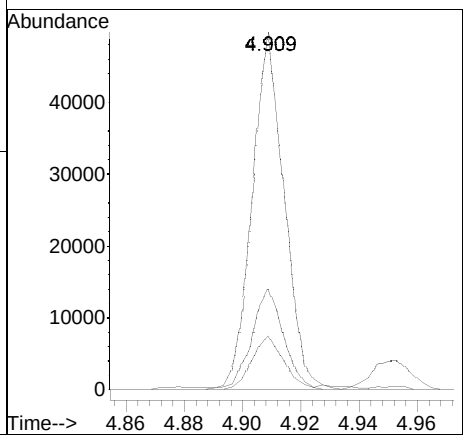


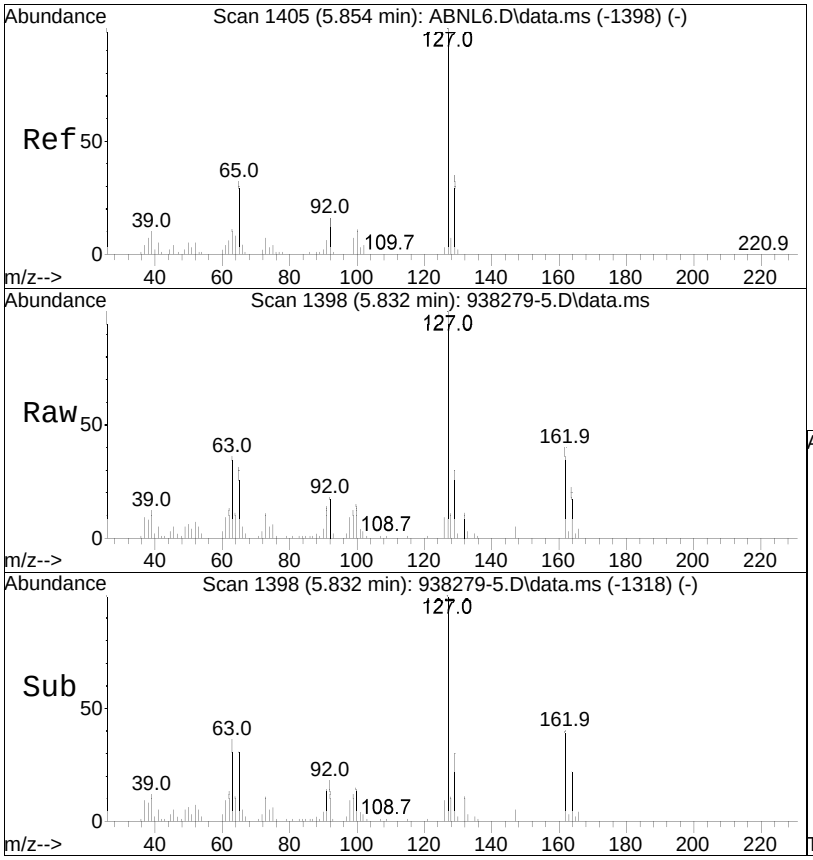


#29
Acetophenone
Concen: 2.73 ug/ml
RT: 4.909 min Scan# 1101
Delta R.T. -0.000 min
Lab File: 938279-5.D
Acq: 24 Jun 2024 7:37 pm

Tgt Ion:105 Resp: 37780

Ion	Ratio	Lower	Upper
105	100		
120	14.8	20.5	30.7#
51	28.7	34.9	52.3#

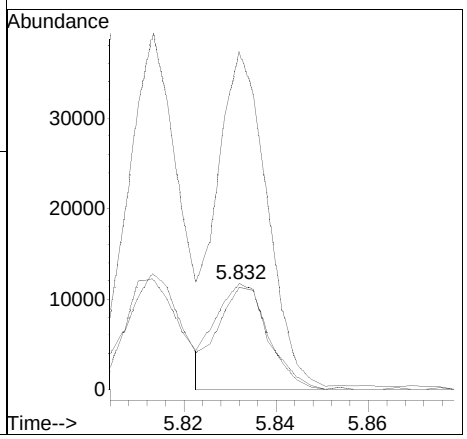


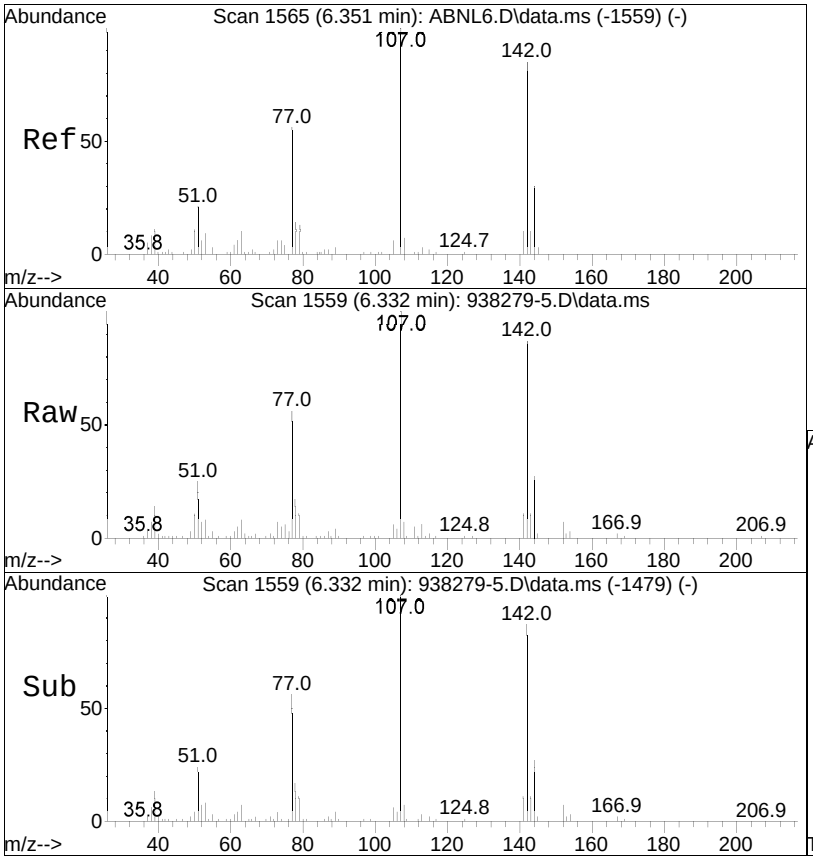


#38
4-Chloroaniline
Concen: 2.85 ug/ml
RT: 5.832 min Scan# 1398
Delta R.T. 0.000 min
Lab File: 938279-5.D
Acq: 24 Jun 2024 7:37 pm

Tgt Ion: 65 Resp: 9329

Ion	Ratio	Lower	Upper
65	100		
127	297.7	237.6	356.4
129	92.6	76.3	114.5

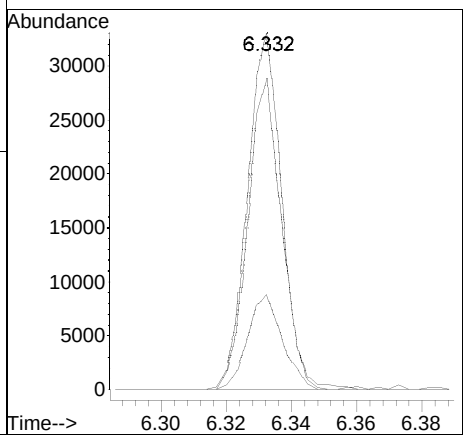


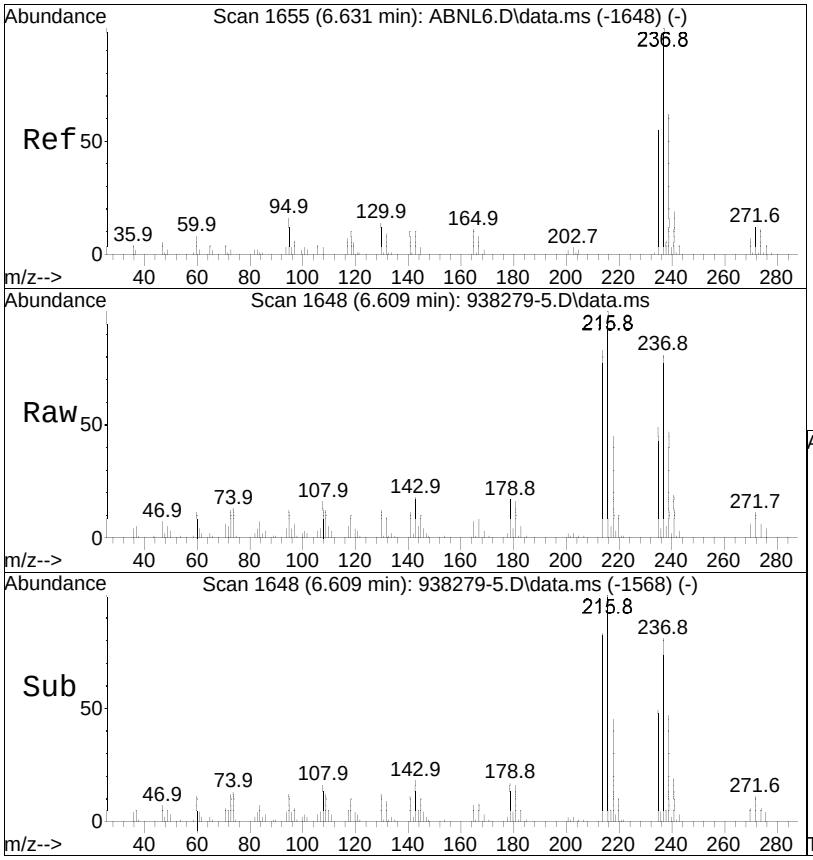


#40
p-Chloro-m-cresol
Concen: 3.20 ug/ml
RT: 6.332 min Scan# 1559
Delta R.T. 0.000 min
Lab File: 938279-5.D
Acq: 24 Jun 2024 7:37 pm

Tgt Ion:107 Resp: 23994

Ion	Ratio	Lower	Upper
107	100		
144	27.1	20.9	31.3
142	85.4	66.1	99.1

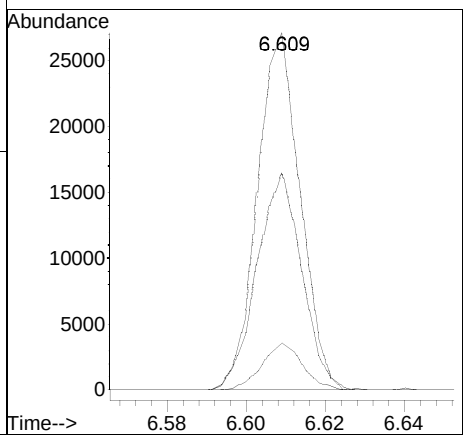


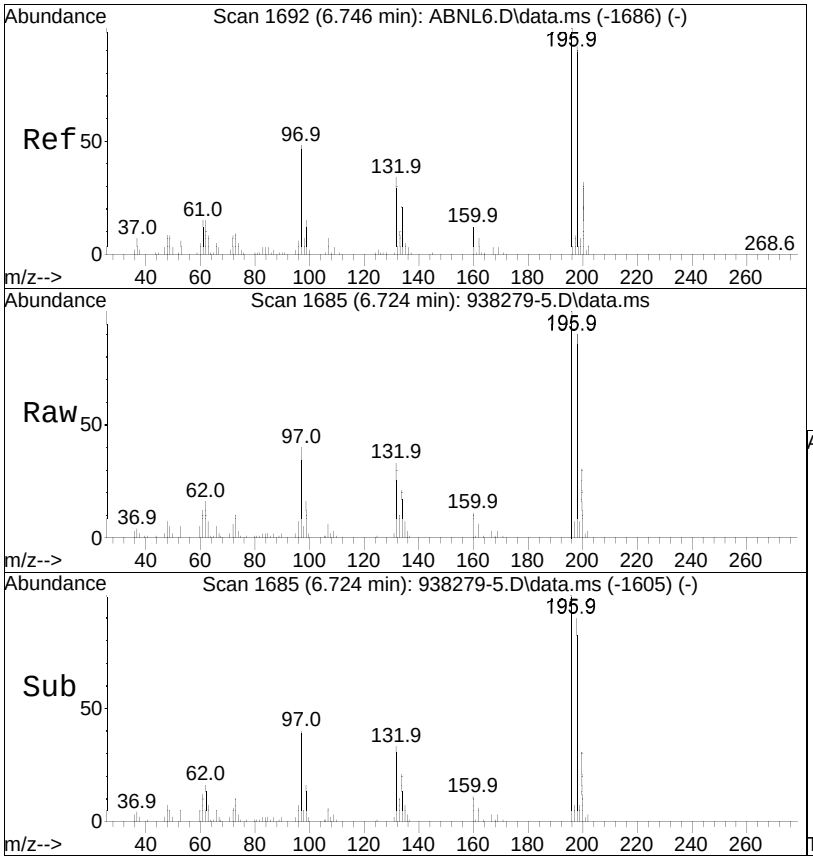


#43
Hexachlorocyclopentadiene
Concen: 2.71 ug/ml
RT: 6.609 min Scan# 1648
Delta R.T. 0.000 min
Lab File: 938279-5.D
Acq: 24 Jun 2024 7:37 pm

Tgt Ion:237 Resp: 20250

Ion	Ratio	Lower	Upper
237	100		
235	63.7	49.7	74.5
272	12.5	9.8	14.6

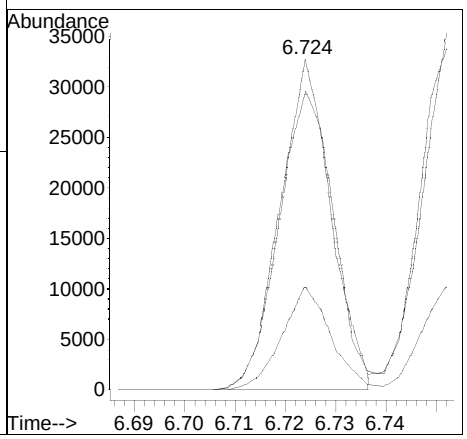


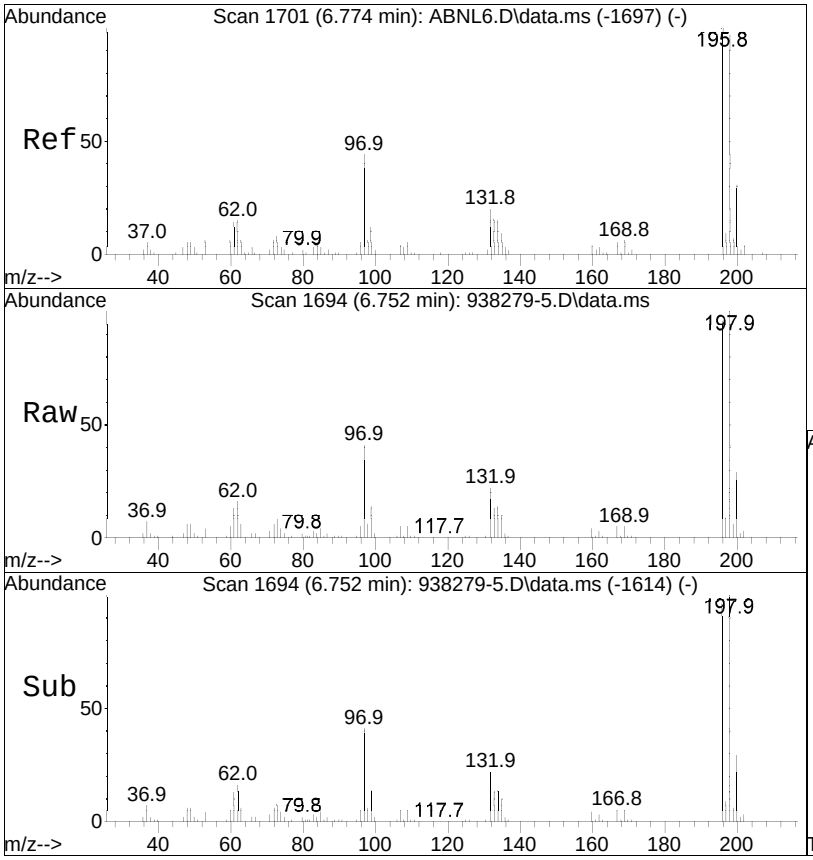


#44
2,4,6-Trichlorophenol
Concen: 3.03 ug/ml
RT: 6.724 min Scan# 1685
Delta R.T. 0.000 min
Lab File: 938279-5.D
Acq: 24 Jun 2024 7:37 pm

Tgt Ion:196 Resp: 23110

Ion	Ratio	Lower	Upper
196	100		
198	98.3	77.5	116.3
200	30.0	23.8	35.6

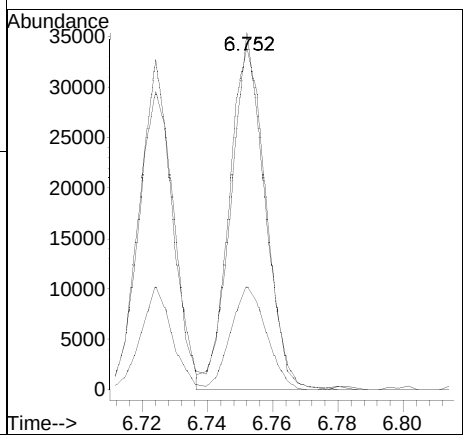


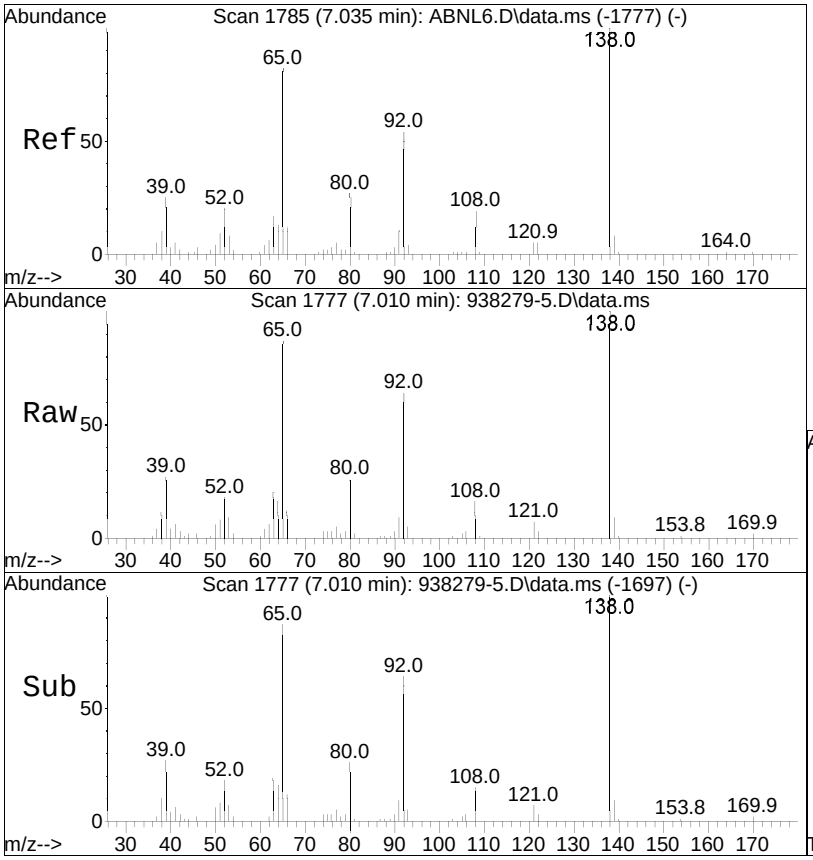


#45
2,4,5-Trichlorophenol
Concen: 3.28 ug/ml
RT: 6.752 min Scan# 1694
Delta R.T. 0.000 min
Lab File: 938279-5.D
Acq: 24 Jun 2024 7:37 pm

Tgt Ion:196 Resp: 26741

Ion	Ratio	Lower	Upper
196	100		
200	29.0	25.4	38.0
198	93.8	78.0	117.0

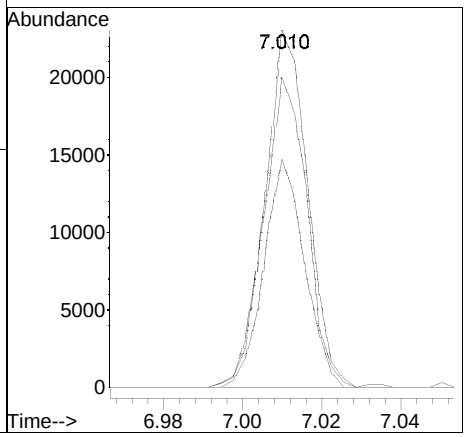


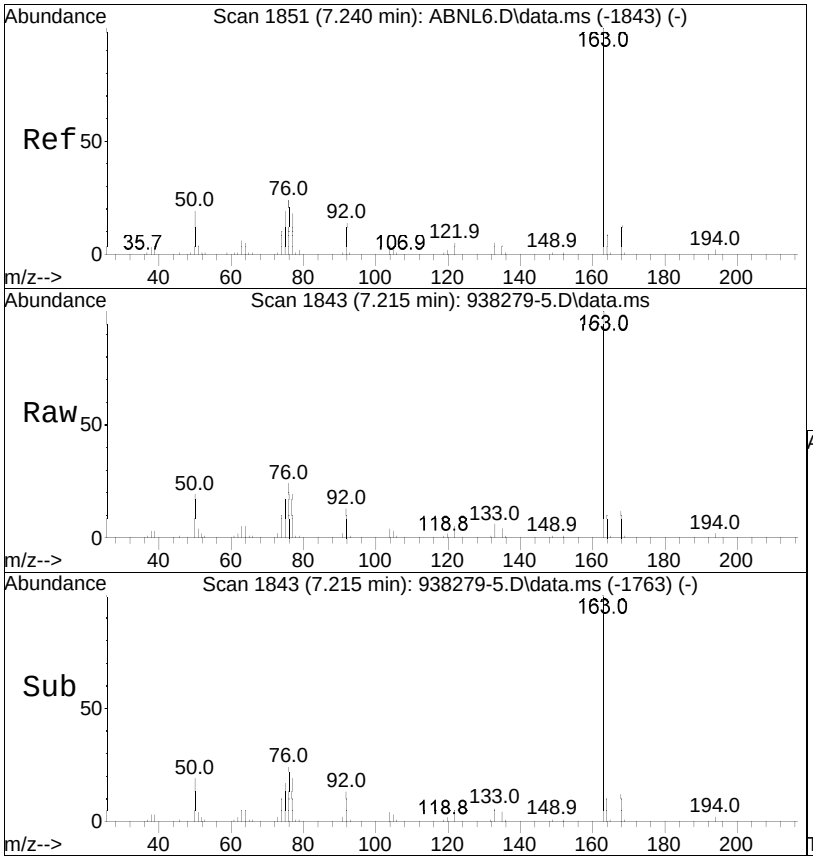


#48
2-Nitroaniline
Concen: 3.01 ug/ml
RT: 7.010 min Scan# 1777
Delta R.T. 0.000 min
Lab File: 938279-5.D
Acq: 24 Jun 2024 7:37 pm

Tgt Ion:138 Resp: 17167

Ion	Ratio	Lower	Upper
138	100		
92	61.0	53.5	80.3
65	88.6	86.3	129.5

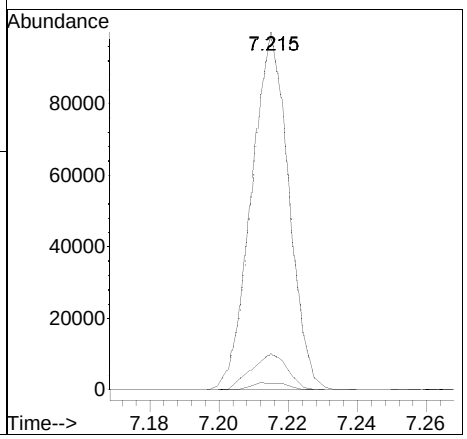


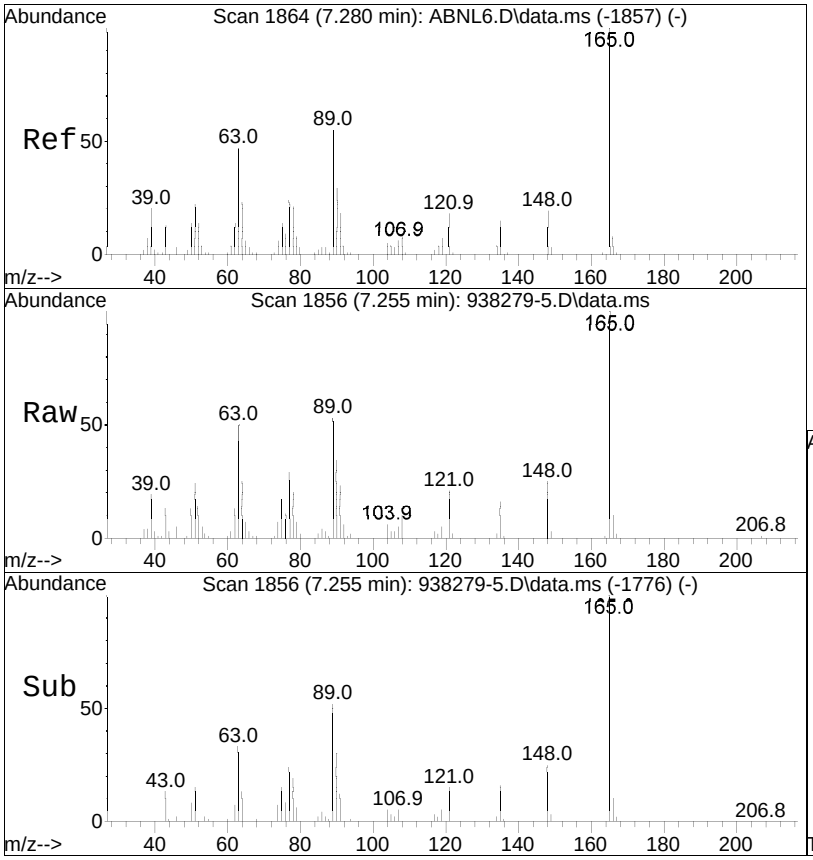


#51
Dimethyl phthalate
Concen: 2.79 ug/ml
RT: 7.215 min Scan# 1843
Delta R.T. 0.000 min
Lab File: 938279-5.D
Acq: 24 Jun 2024 7:37 pm

Tgt Ion:163 Resp: 74183

Ion	Ratio	Lower	Upper
163	100		
194	2.1	3.5	5.3#
164	10.0	7.9	11.9

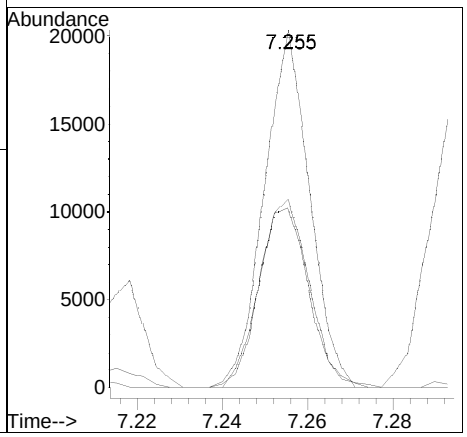


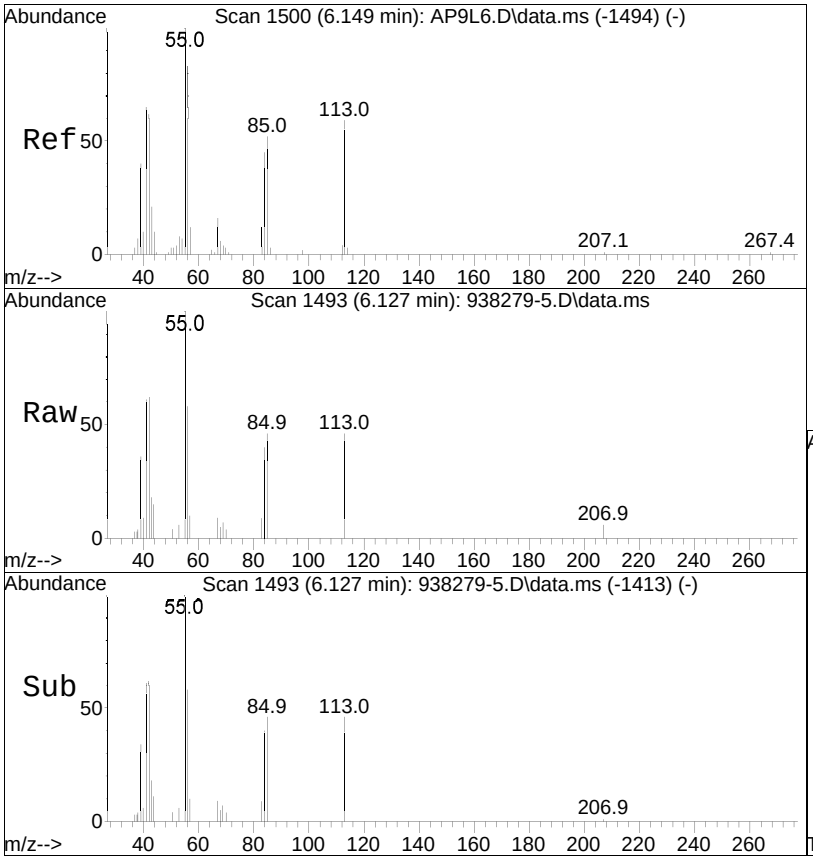


#53
2,6-Dinitrotoluene
Concen: 2.86 ug/ml
RT: 7.255 min Scan# 1856
Delta R.T. 0.000 min
Lab File: 938279-5.D
Acq: 24 Jun 2024 7:37 pm

Tgt Ion:165 Resp: 15052

Ion	Ratio	Lower	Upper
165	100		
89	57.3	54.2	81.2
63	55.8	64.2	96.2#

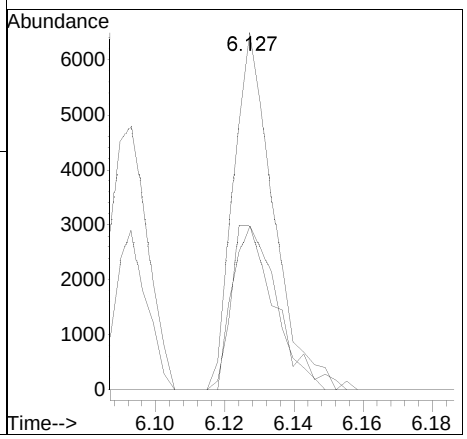


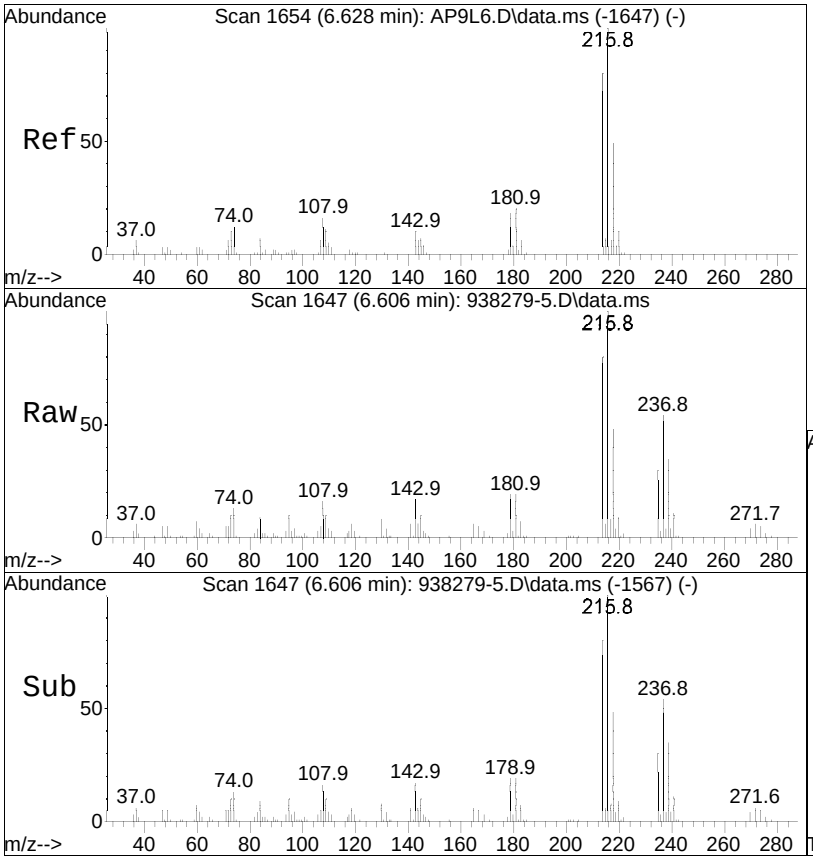


#60
Caprolactam
Concen: 1.52 ug/ml
RT: 6.127 min Scan# 1493
Delta R.T. -0.000 min
Lab File: 938279-5.D
Acq: 24 Jun 2024 7:37 pm

Tgt Ion: 55 Resp: 5252

Ion	Ratio	Lower	Upper
55	100		
85	50.8	19.8	29.6#
113	49.8	29.6	44.4#

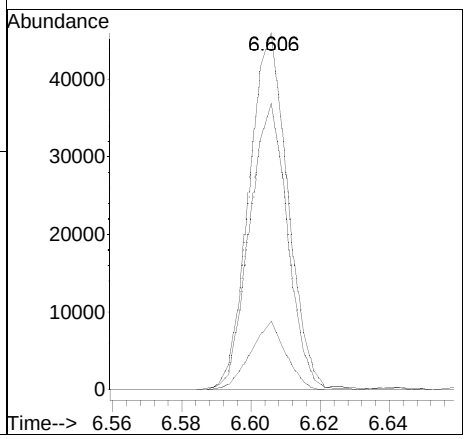


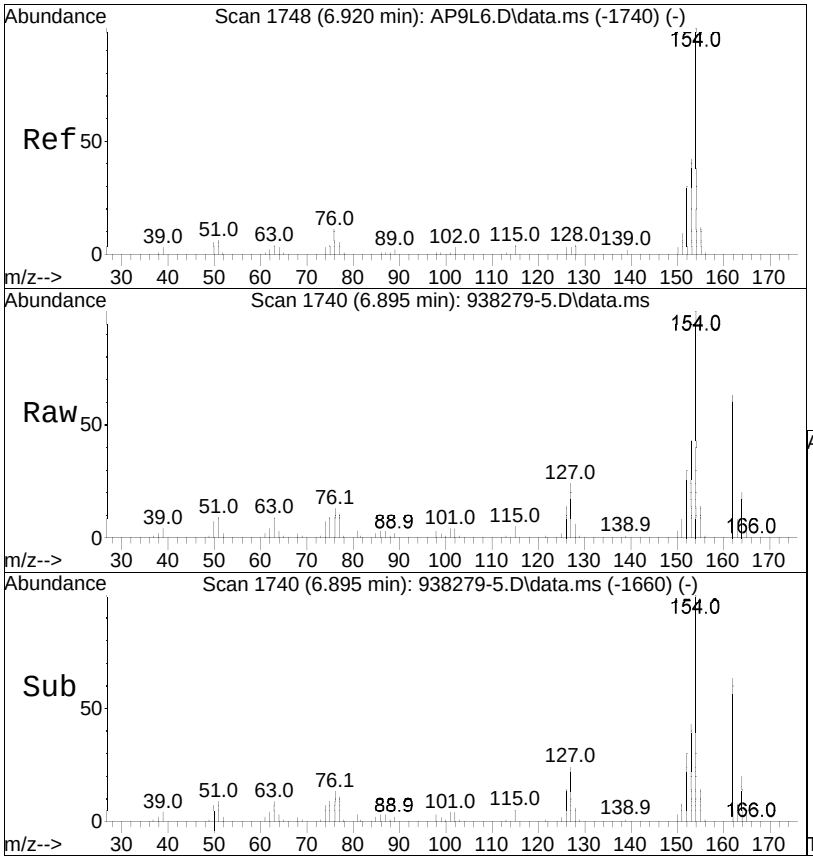


#61
1,2,4,5-Tetrachlorobenzene
Concen: 2.78 ug/ml
RT: 6.606 min Scan# 1647
Delta R.T. -0.000 min
Lab File: 938279-5.D
Acq: 24 Jun 2024 7:37 pm

Tgt Ion:216 Resp: 35818

Ion	Ratio	Lower	Upper
216	100		
214	78.6	63.7	95.5
179	17.5	19.0	28.6#

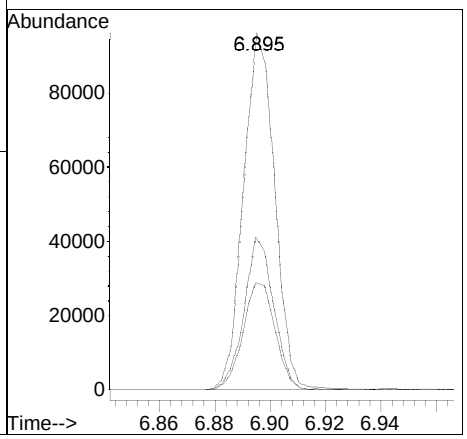


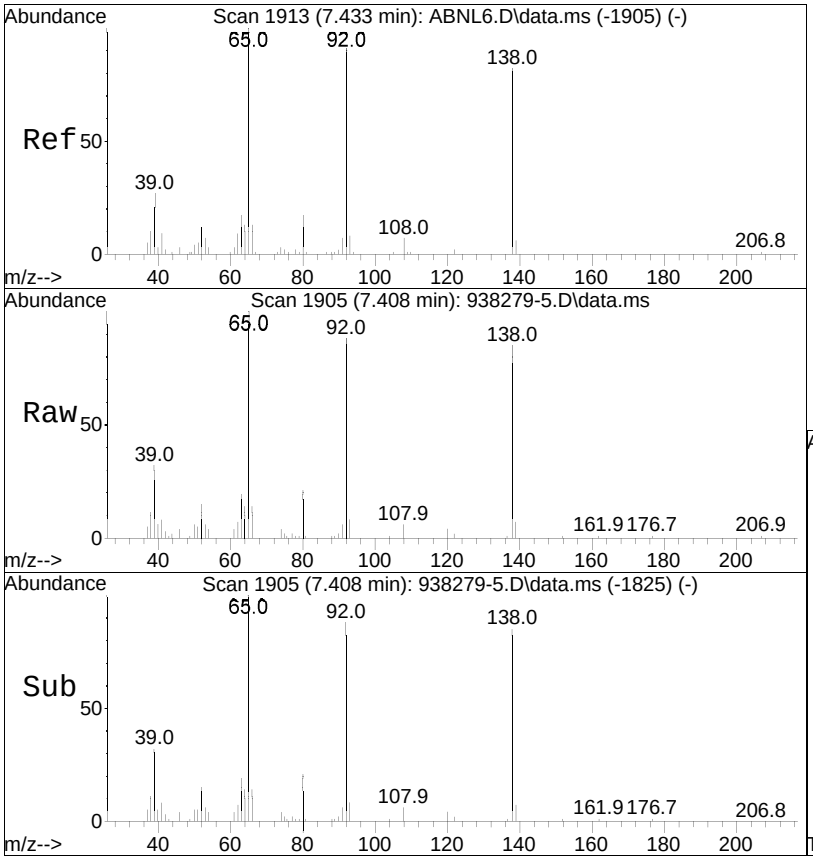


#62
Biphenyl
Concen: 2.73 ug/ml
RT: 6.895 min Scan# 1740
Delta R.T. -0.000 min
Lab File: 938279-5.D
Acq: 24 Jun 2024 7:37 pm

Tgt Ion:154 Resp: 75169

Ion	Ratio	Lower	Upper
154	100		
153	40.8	32.3	48.5
152	30.9	22.5	33.7

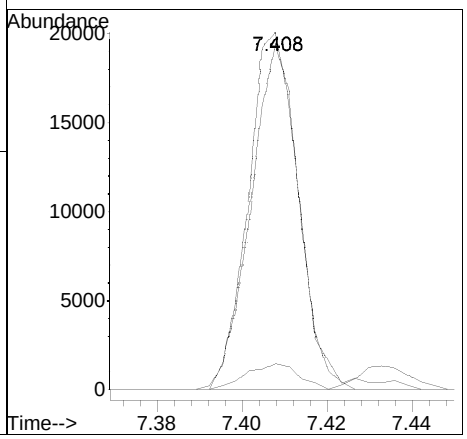


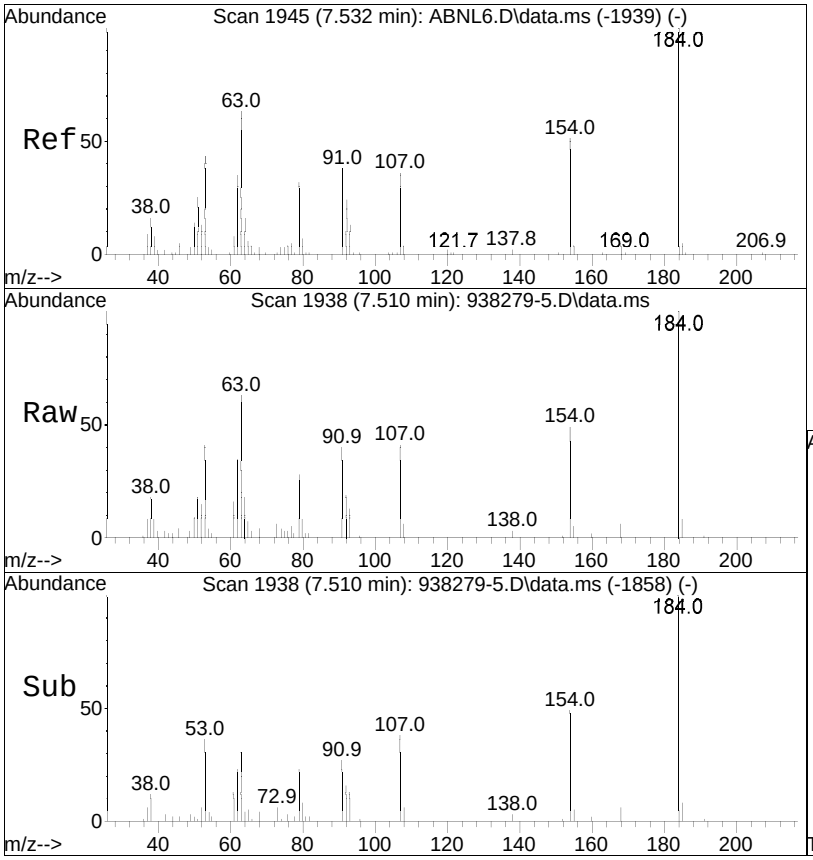


#64
3-Nitroaniline
Concen: 2.99 ug/ml
RT: 7.408 min Scan# 1905
Delta R.T. 0.000 min
Lab File: 938279-5.D
Acq: 24 Jun 2024 7:37 pm

Tgt Ion:138 Resp: 15040

Ion	Ratio	Lower	Upper
138	100		
92	109.7	93.4	140.2
108	8.1	9.5	14.3#

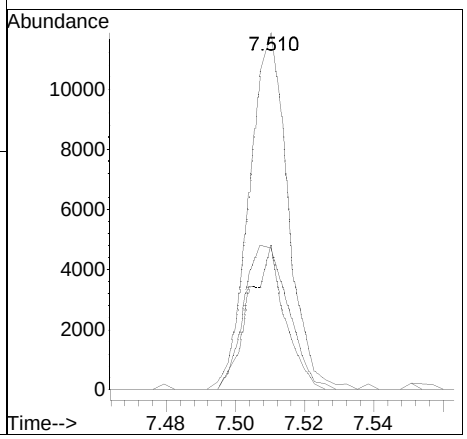


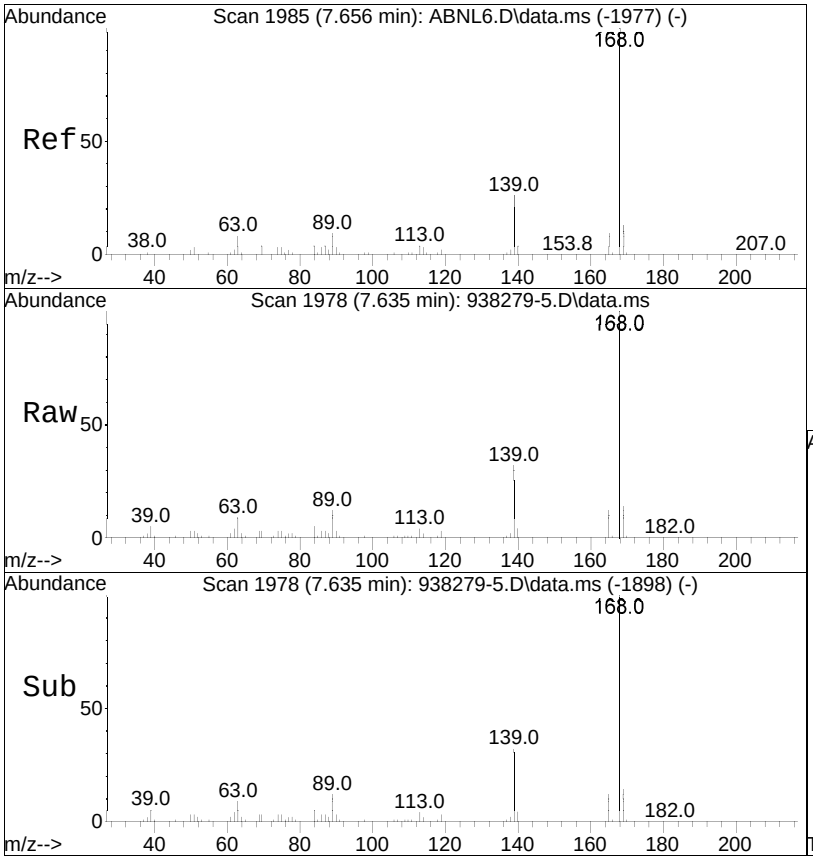


#66
2,4-Dinitrophenol
Concen: 2.68 ug/ml
RT: 7.510 min Scan# 1938
Delta R.T. 0.000 min
Lab File: 938279-5.D
Acq: 24 Jun 2024 7:37 pm

Tgt Ion:184 Resp: 9202

Ion	Ratio	Lower	Upper
184	100		
107	37.8	37.7	56.5
91	46.3	46.3	69.5

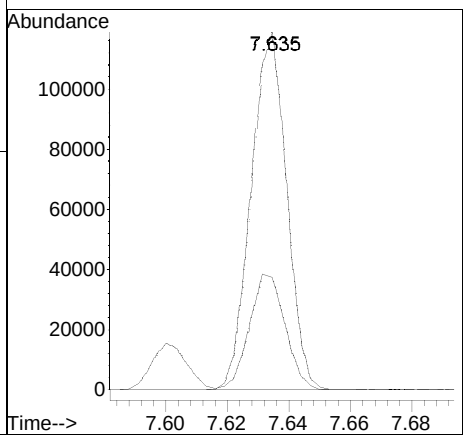


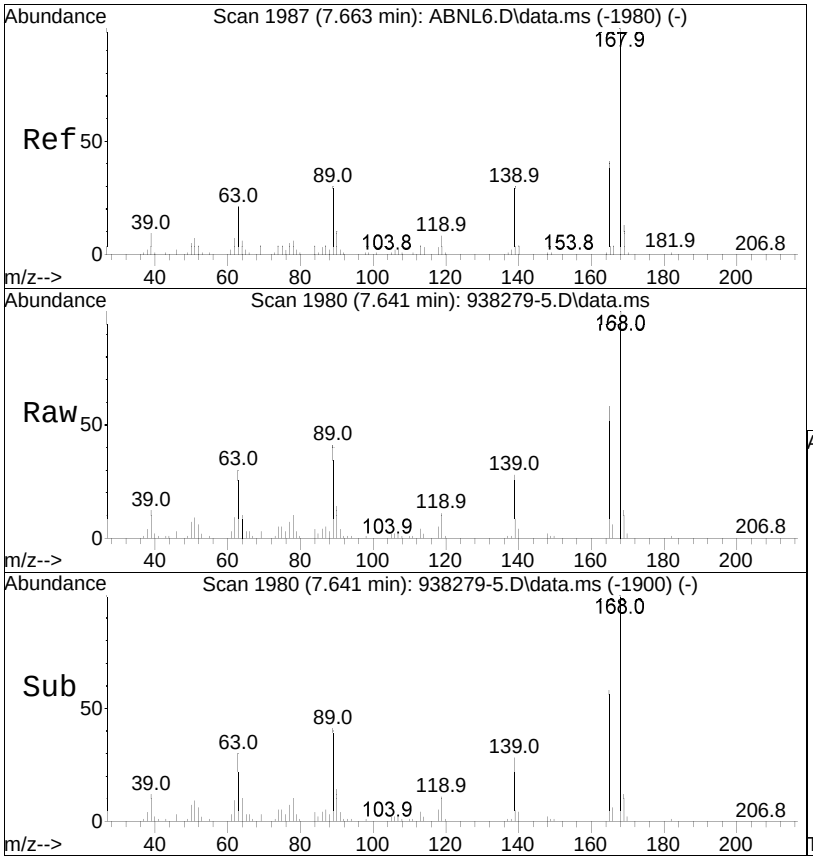


#67
Dibenzofuran
Concen: 2.94 ug/ml
RT: 7.635 min Scan# 1978
Delta R.T. 0.000 min
Lab File: 938279-5.D
Acq: 24 Jun 2024 7:37 pm

Tgt Ion:168 Resp: 94596

Ion	Ratio	Lower	Upper
168	100		
139	32.6	31.4	47.2

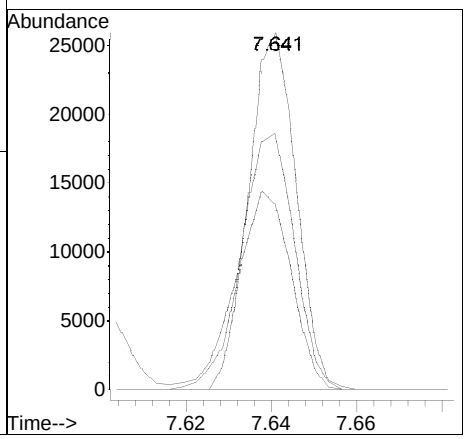


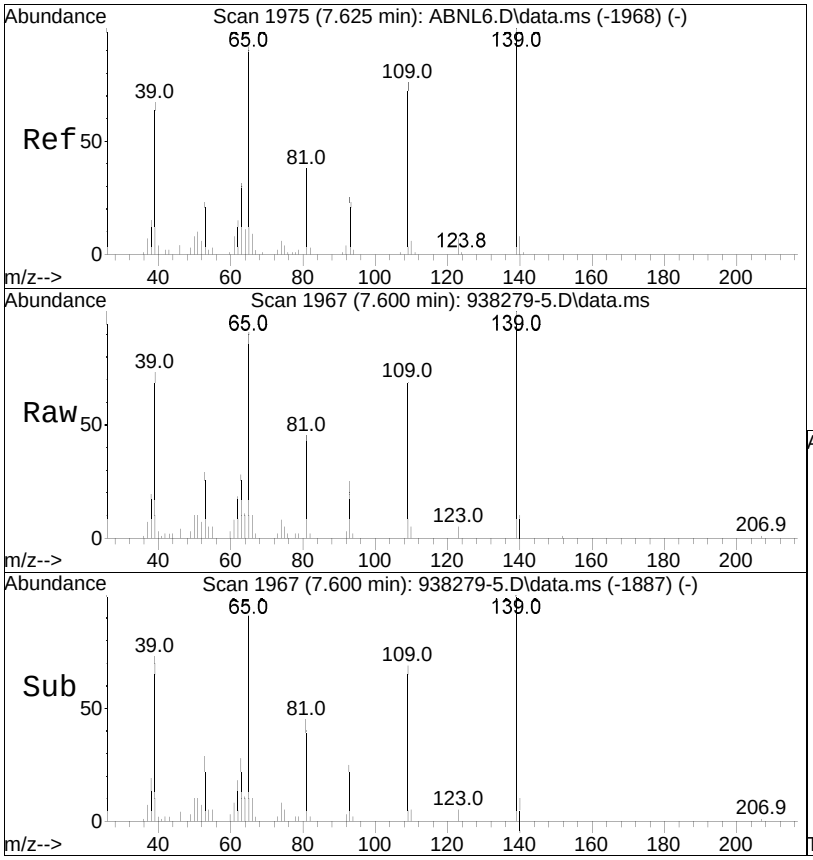


#68
2,4-Dinitrotoluene
Concen: 2.92 ug/ml
RT: 7.641 min Scan# 1980
Delta R.T. 0.000 min
Lab File: 938279-5.D
Acq: 24 Jun 2024 7:37 pm

Tgt Ion:165 Resp: 19969

Ion	Ratio	Lower	Upper
165	100		
89	80.2	72.0	108.0
63	65.3	52.7	79.1

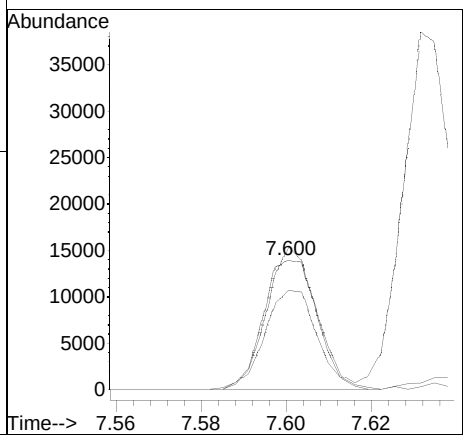


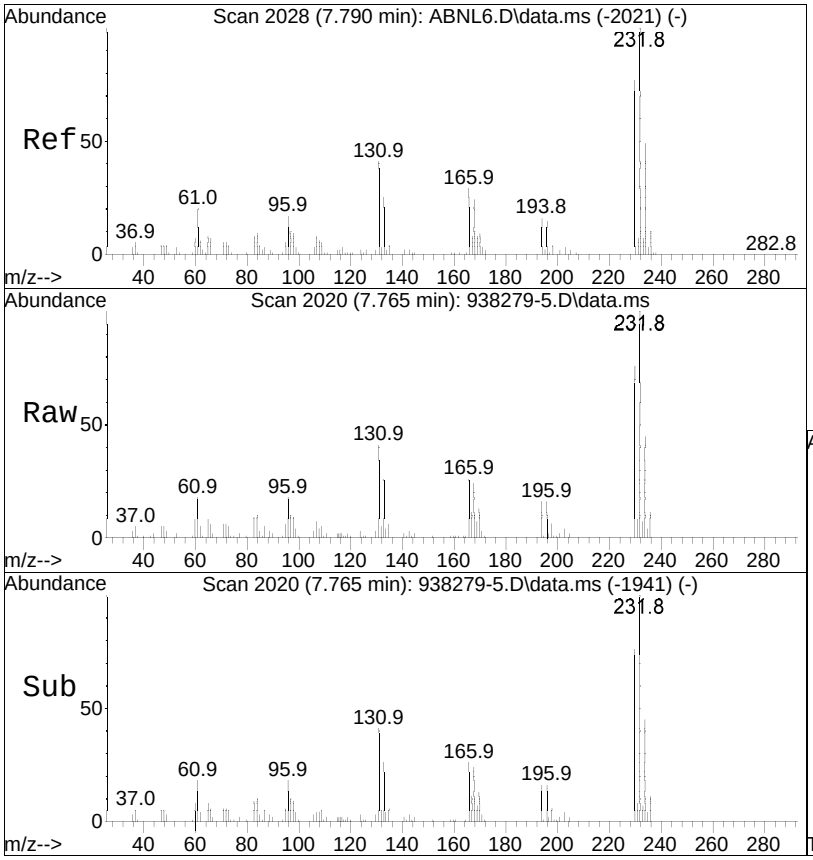


#69
4-Nitrophenol
Concen: 2.91 ug/ml
RT: 7.600 min Scan# 1967
Delta R.T. 0.000 min
Lab File: 938279-5.D
Acq: 24 Jun 2024 7:37 pm

Tgt Ion: 65 Resp: 12229

Ion	Ratio	Lower	Upper
65	100		
109	75.0	47.4	71.2#
139	101.4	76.6	115.0

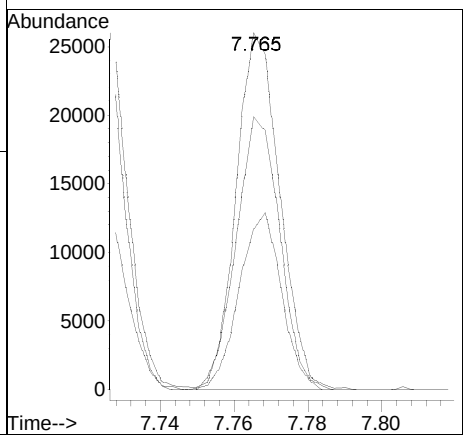


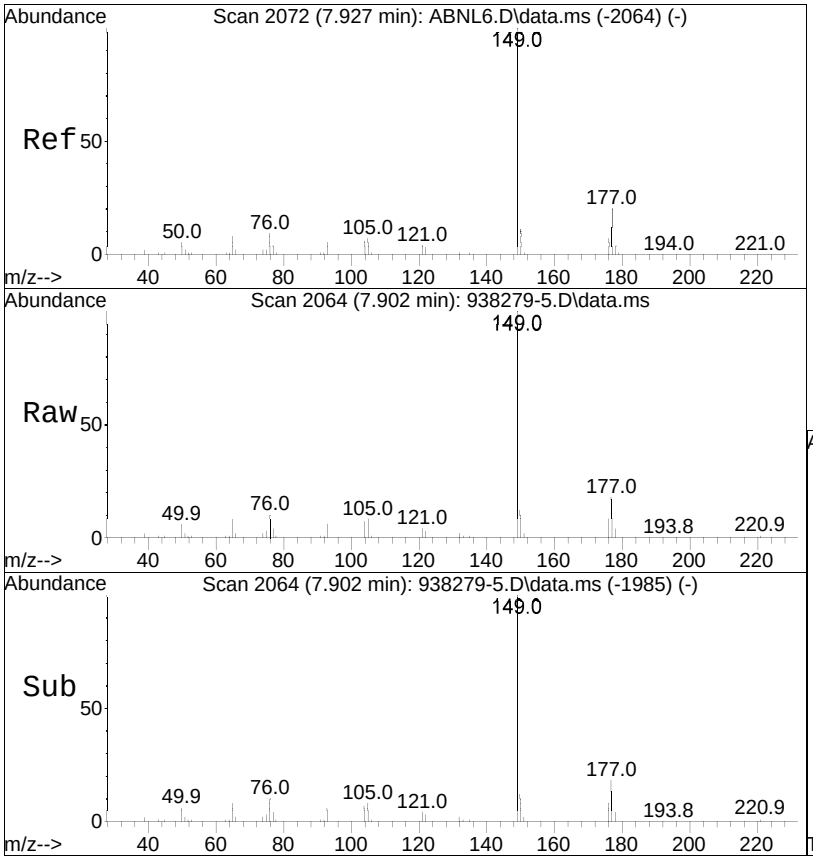


#71
2,3,4,6-Tetrachlorophenol
Concen: 3.15 ug/ml
RT: 7.765 min Scan# 2020
Delta R.T. -0.003 min
Lab File: 938279-5.D
Acq: 24 Jun 2024 7:37 pm

Tgt Ion:232 Resp: 21395

Ion	Ratio	Lower	Upper
232	100		
230	76.6	61.8	92.8
234	48.2	36.2	54.2

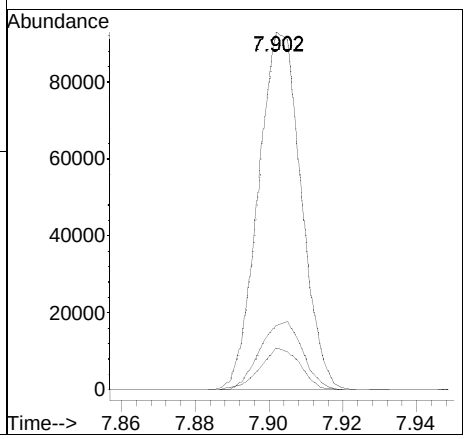


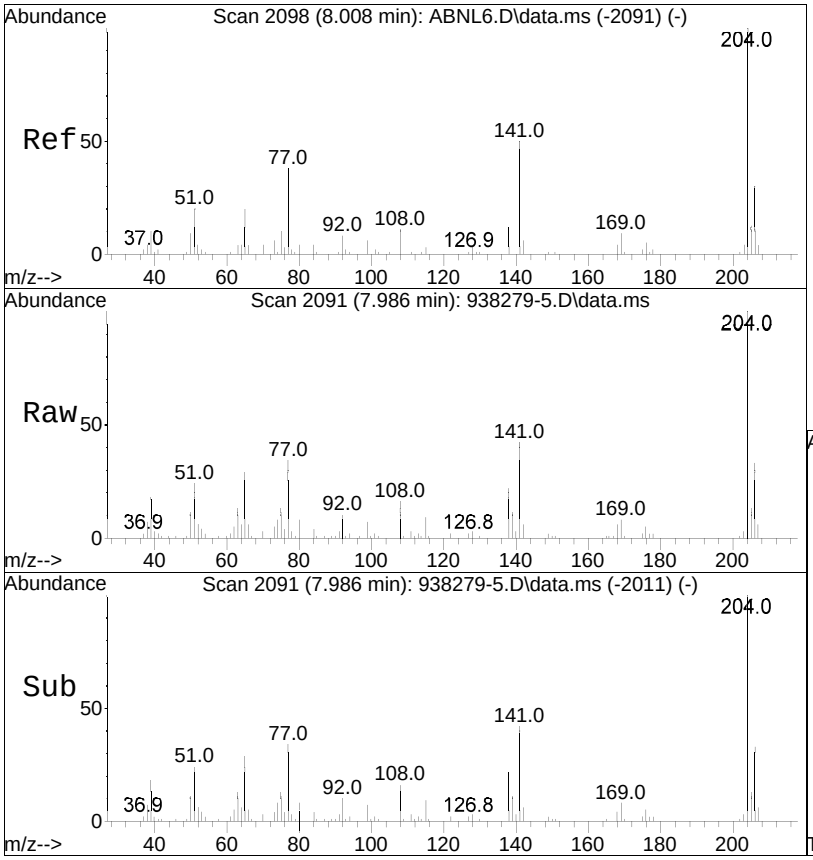


#72
Diethyl phthalate
Concen: 2.84 ug/ml
RT: 7.902 min Scan# 2064
Delta R.T. -0.003 min
Lab File: 938279-5.D
Acq: 24 Jun 2024 7:37 pm

Tgt Ion:149 Resp: 74229

Ion	Ratio	Lower	Upper
149	100		
177	19.1	16.1	24.1
150	11.2	9.4	14.2

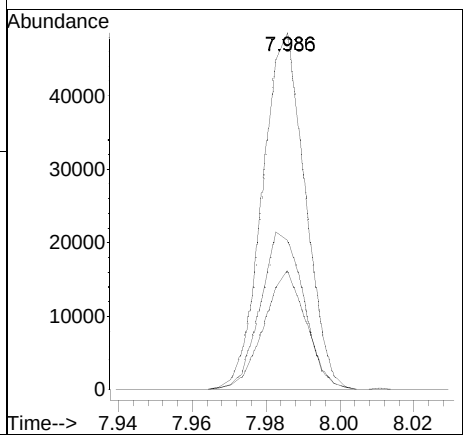


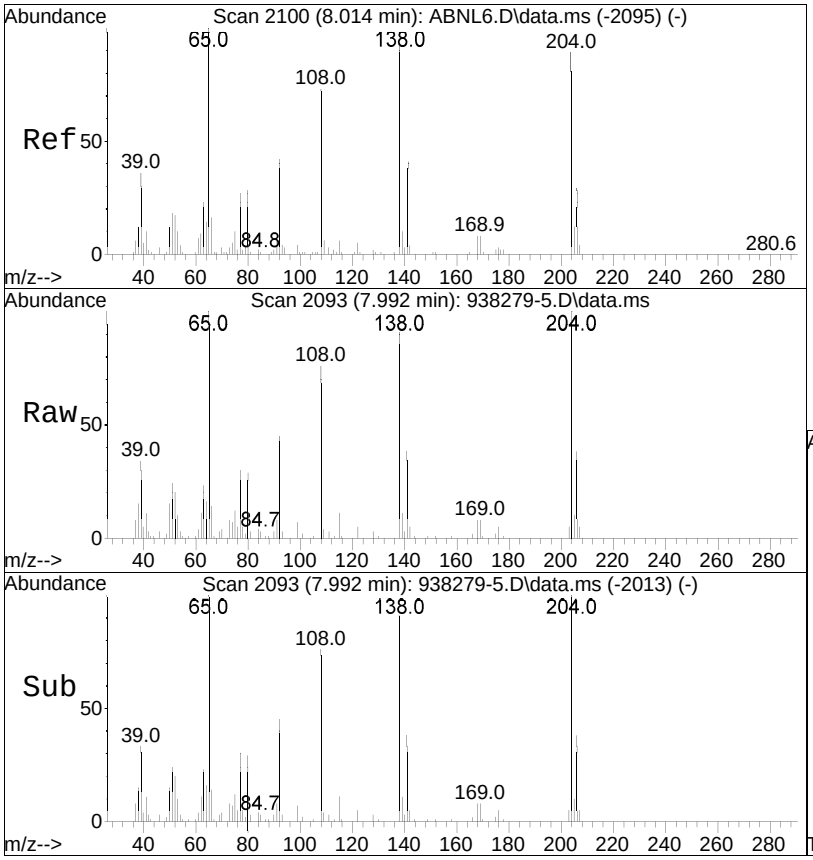


#74
4-Chlorophenyl phenyl ether
Concen: 3.11 ug/ml
RT: 7.986 min Scan# 2091
Delta R.T. 0.000 min
Lab File: 938279-5.D
Acq: 24 Jun 2024 7:37 pm

Tgt Ion:204 Resp: 38821

Ion	Ratio	Lower	Upper
204	100		
206	33.4	25.8	38.6
141	44.9	53.6	80.4#

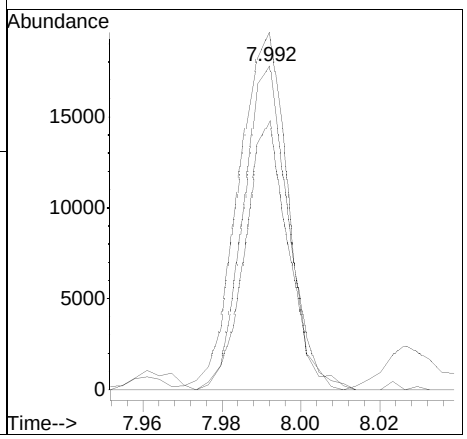


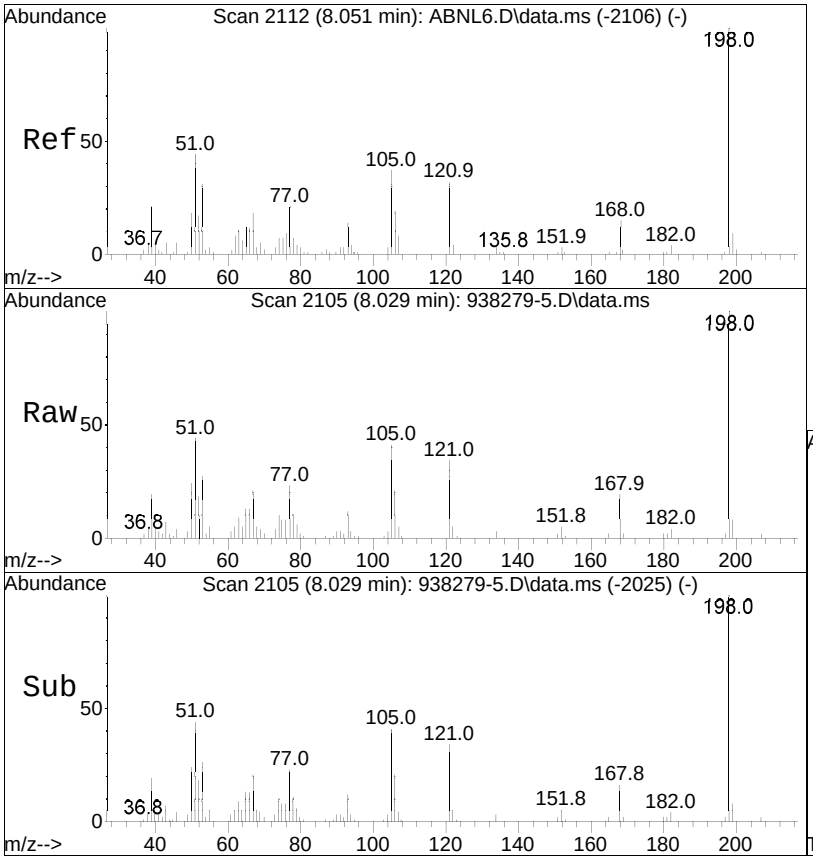


#75
4-Nitroaniline
Concen: 2.85 ug/ml
RT: 7.992 min Scan# 2093
Delta R.T. 0.000 min
Lab File: 938279-5.D
Acq: 24 Jun 2024 7:37 pm

Tgt Ion:138 Resp: 14104

Ion	Ratio	Lower	Upper
138	100		
108	80.0	52.1	78.1#
65	120.4	115.0	172.6

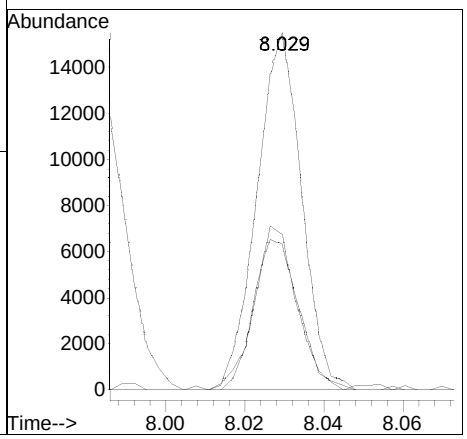


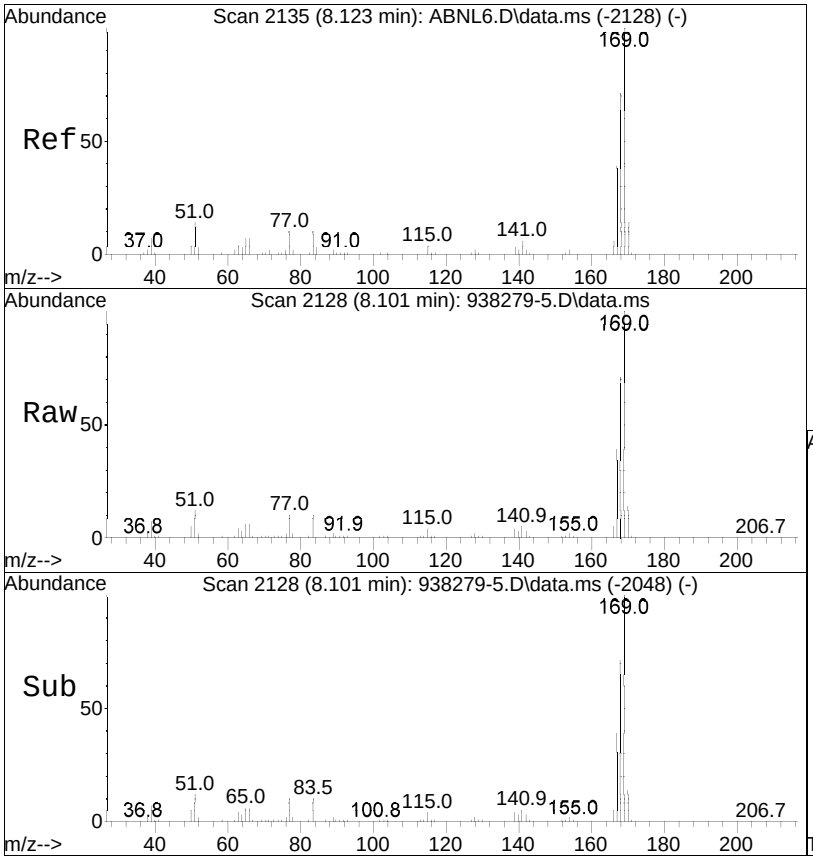


#76
4,6-Dinitro-o-cresol
Concen: 2.82 ug/ml
RT: 8.029 min Scan# 2105
Delta R.T. 0.000 min
Lab File: 938279-5.D
Acq: 24 Jun 2024 7:37 pm

Tgt Ion:198 Resp: 12189

Ion	Ratio	Lower	Upper
198	100		
51	43.6	76.0	114.0#
105	42.6	45.6	68.4#

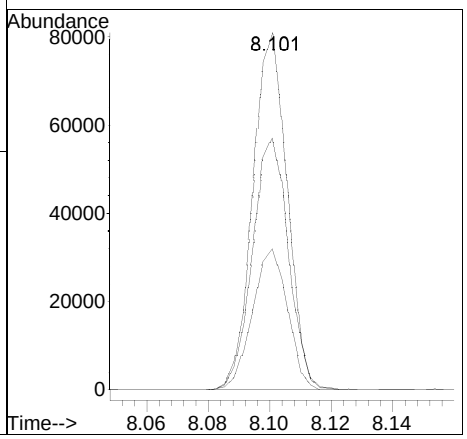


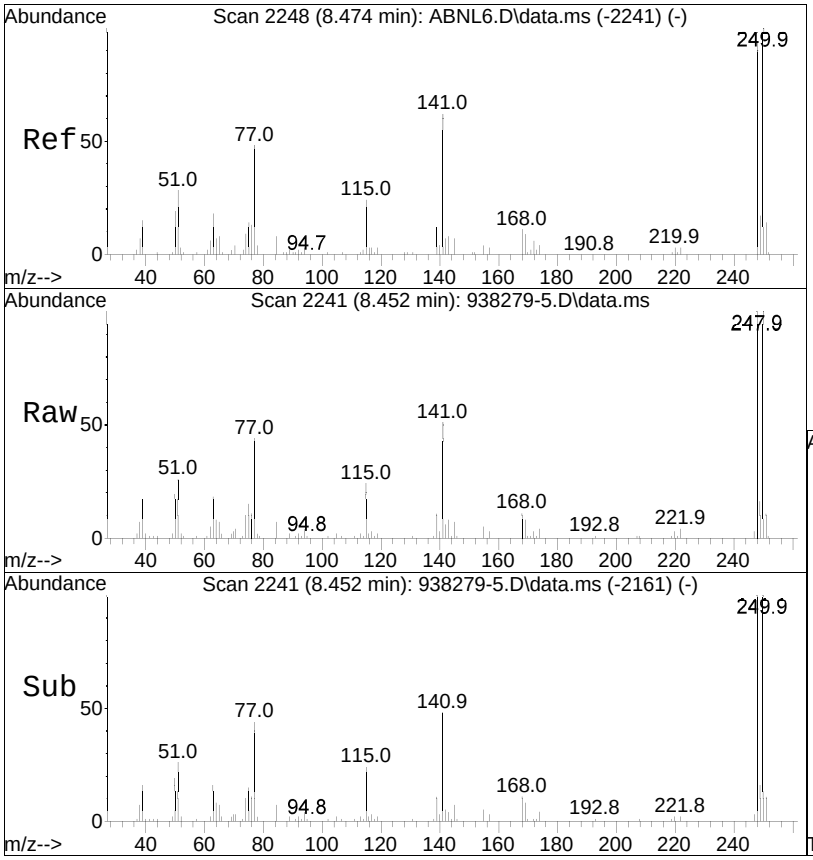


#77
NDPA/DPA
Concen: 2.98 ug/ml
RT: 8.101 min Scan# 2128
Delta R.T. 0.000 min
Lab File: 938279-5.D
Acq: 24 Jun 2024 7:37 pm

Tgt Ion:169 Resp: 62789

Ion	Ratio	Lower	Upper
169	100		
168	73.5	54.0	81.0
167	40.5	28.6	42.8

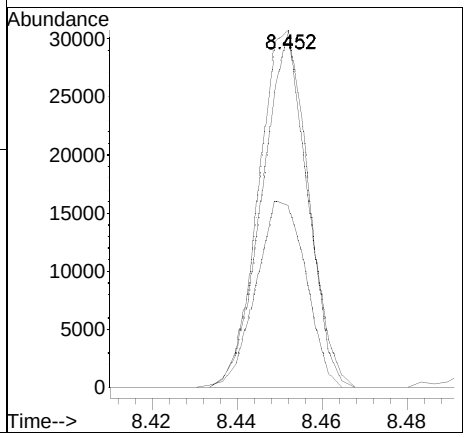


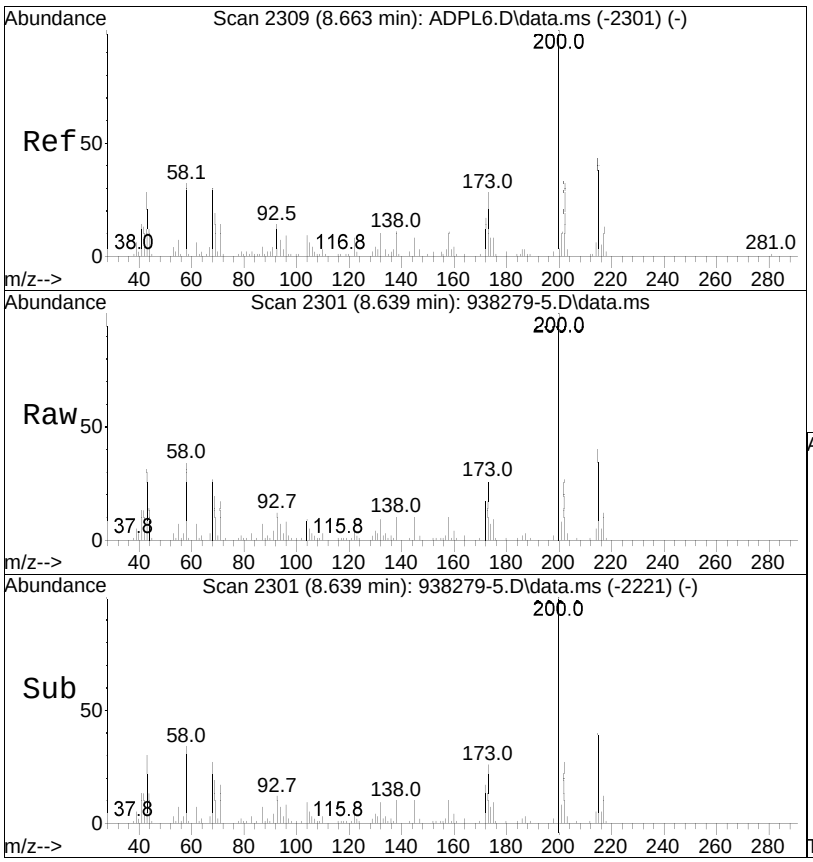


#80
4-Bromophenyl phenyl ether
Concen: 2.89 ug/ml
RT: 8.452 min Scan# 2241
Delta R.T. 0.000 min
Lab File: 938279-5.D
Acq: 24 Jun 2024 7:37 pm

Tgt Ion:248 Resp: 24004

Ion	Ratio	Lower	Upper
248	100		
141	54.1	76.6	114.8#
250	96.5	77.3	115.9

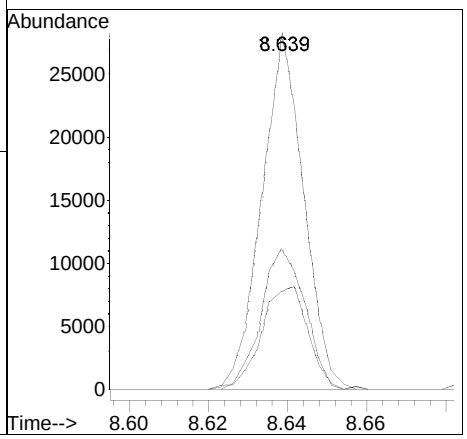


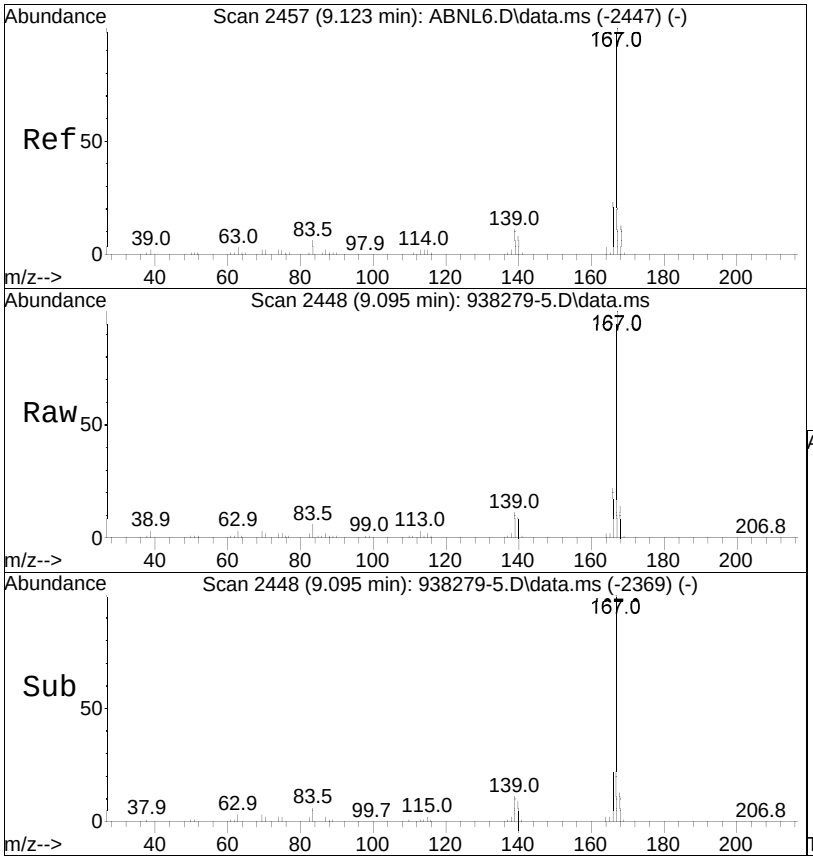


#87
Atrazine
Concen: 2.71 ug/ml
RT: 8.639 min Scan# 2301
Delta R.T. -0.000 min
Lab File: 938279-5.D
Acq: 24 Jun 2024 7:37 pm

Tgt Ion:200 Resp: 20617

Ion	Ratio	Lower	Upper
200	100		
202	32.6	25.8	38.6
215	41.8	40.2	60.4

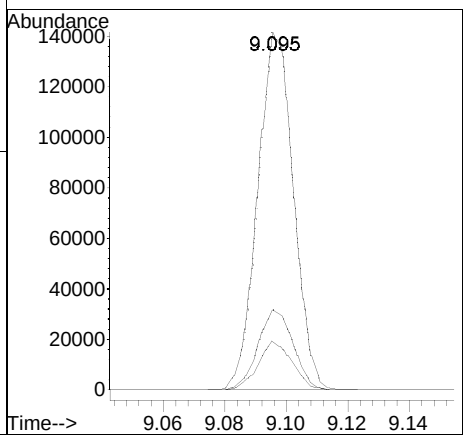


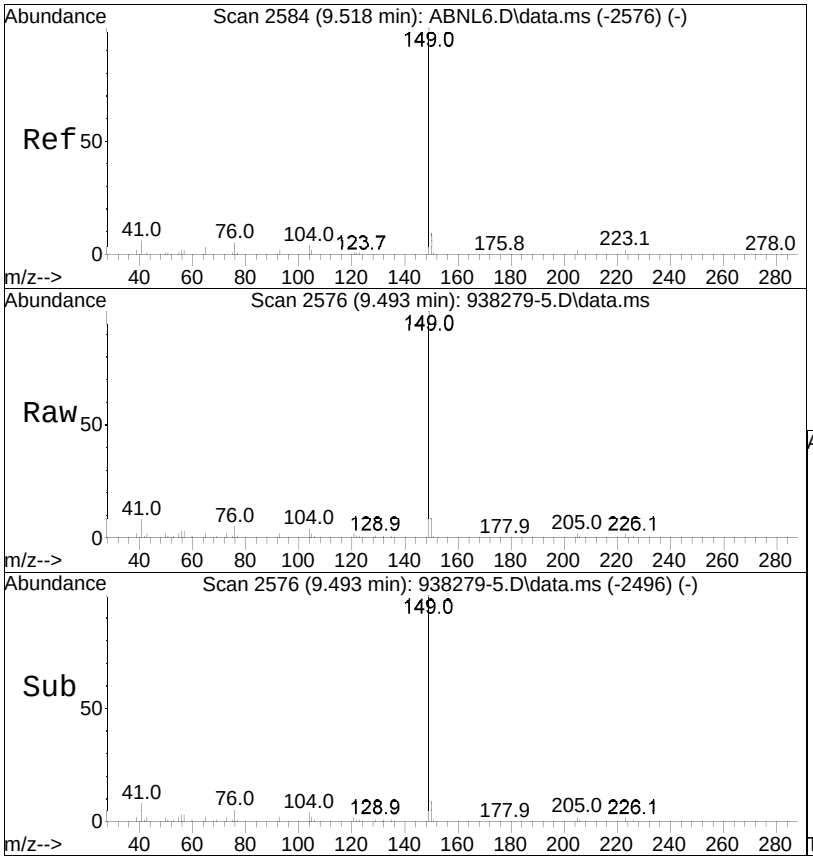


#91
Carbazole
Concen: 3.09 ug/ml
RT: 9.095 min Scan# 2448
Delta R.T. -0.003 min
Lab File: 938279-5.D
Acq: 24 Jun 2024 7:37 pm

Tgt Ion:167 Resp: 113186

Ion	Ratio	Lower	Upper
167	100		
168	13.1	10.6	15.8
166	22.2	17.4	26.0

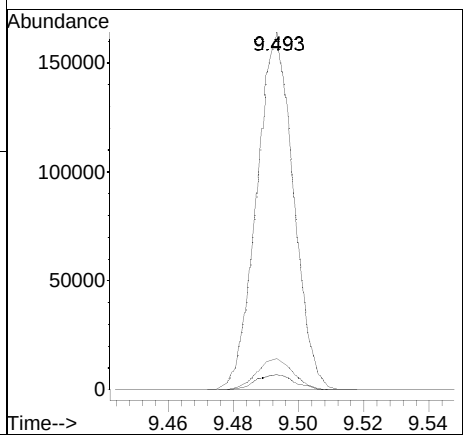


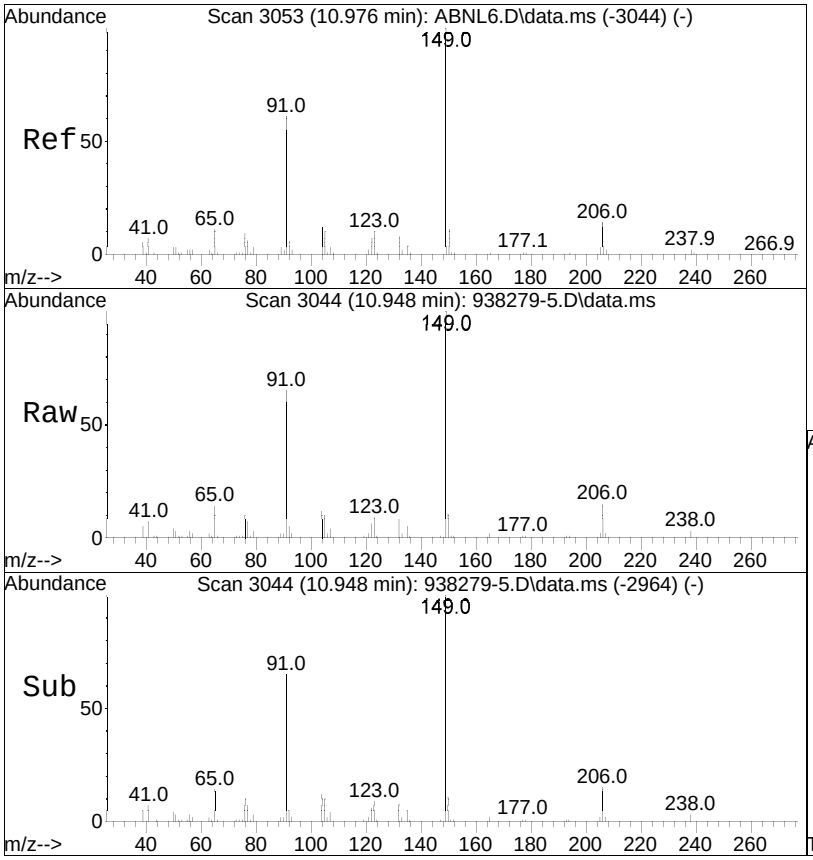


#92
Di-n-butylphthalate
Concen: 3.02 ug/ml
RT: 9.493 min Scan# 2576
Delta R.T. 0.000 min
Lab File: 938279-5.D
Acq: 24 Jun 2024 7:37 pm

Tgt Ion:149 Resp: 127109

Ion	Ratio	Lower	Upper
149	100		
150	8.6	7.0	10.6
104	4.5	4.5	6.7#

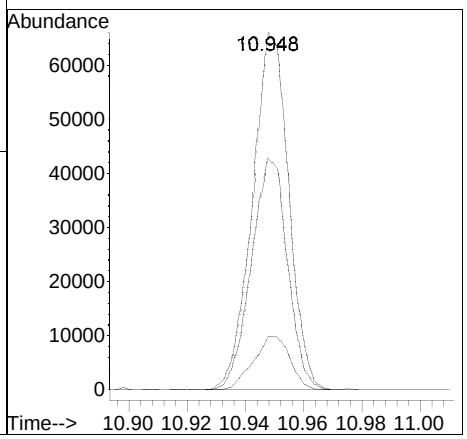


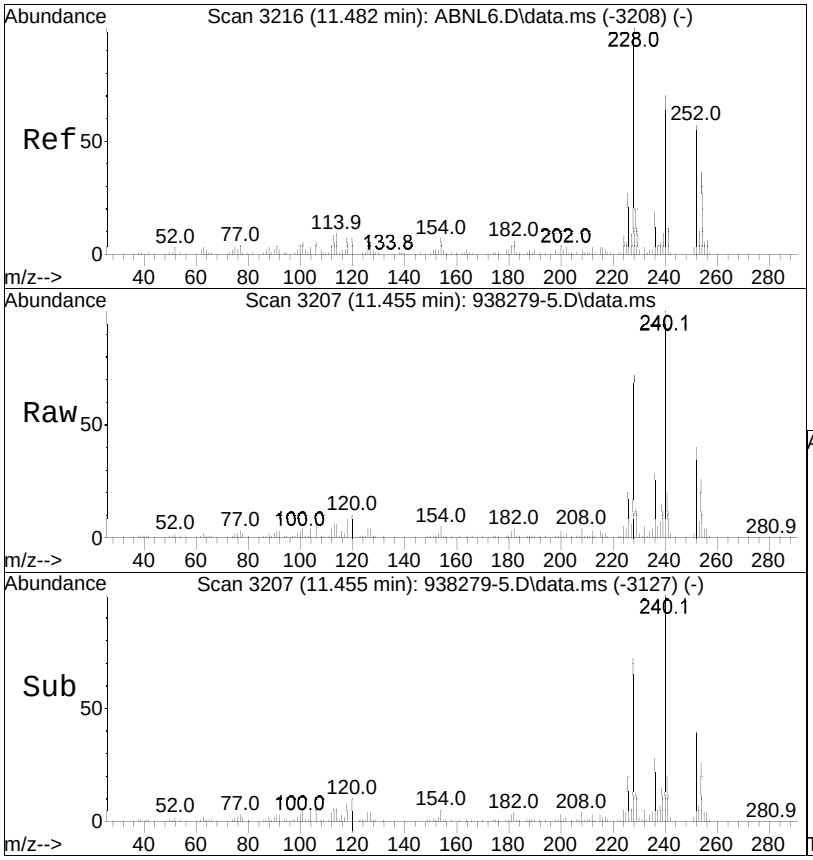


#97
Butyl benzyl phthalate
Concen: 2.99 ug/ml
RT: 10.948 min Scan# 3044
Delta R.T. 0.000 min
Lab File: 938279-5.D
Acq: 24 Jun 2024 7:37 pm

Tgt Ion:149 Resp: 56593

Ion	Ratio	Lower	Upper
149	100		
91	64.6	63.3	94.9
206	15.5	13.9	20.9

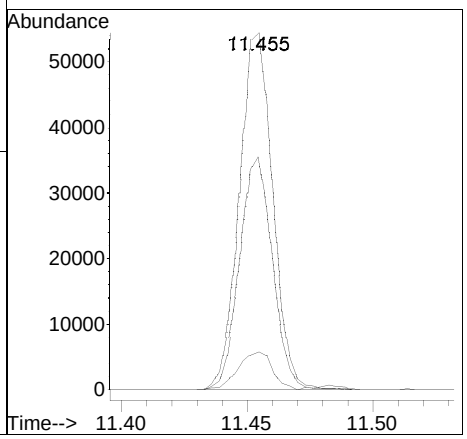


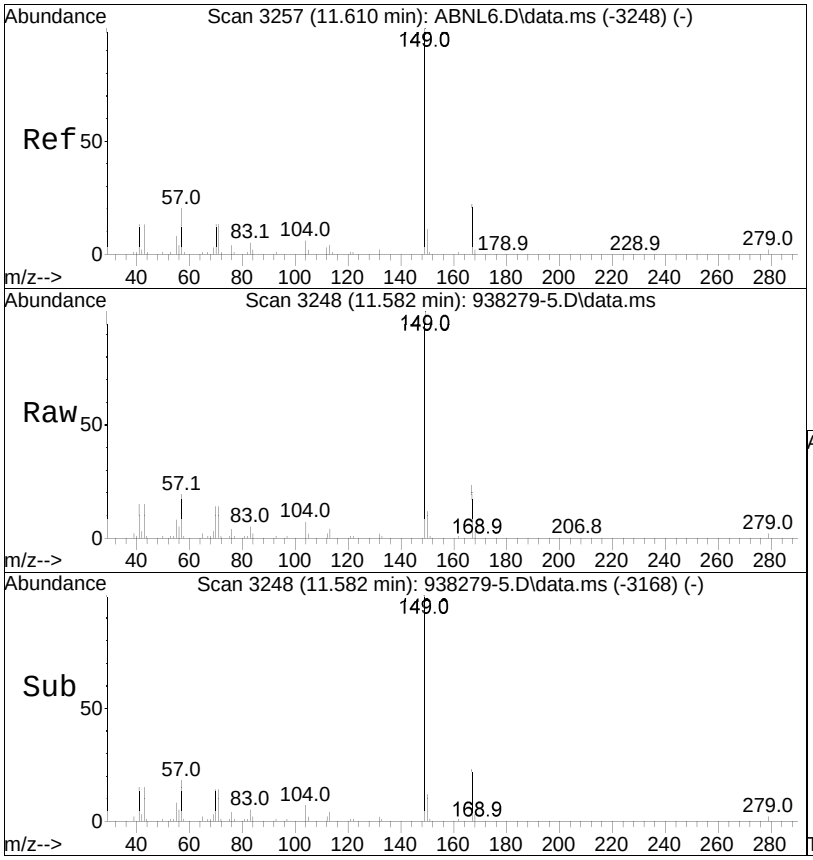


#106
3,3'-Dichlorobenzidine
Concen: 2.79 ug/ml
RT: 11.455 min Scan# 3207
Delta R.T. 0.000 min
Lab File: 938279-5.D
Acq: 24 Jun 2024 7:37 pm

Tgt Ion:252 Resp: 50047

Ion	Ratio	Lower	Upper
252	100		
126	11.1	14.5	21.7#
254	64.1	51.2	76.8

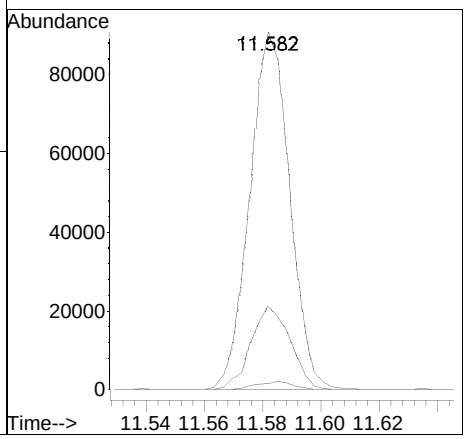


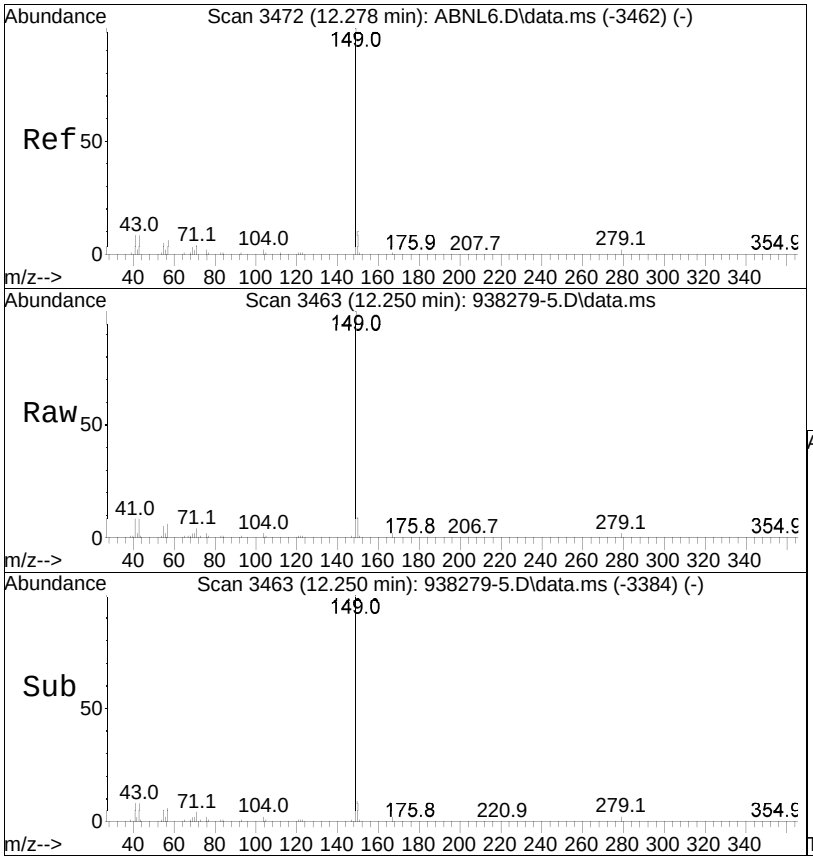


#108
Bis(2-ethylhexyl)phthalate
Concen: 3.15 ug/ml
RT: 11.582 min Scan# 3248
Delta R.T. 0.000 min
Lab File: 938279-5.D
Acq: 24 Jun 2024 7:37 pm

Tgt Ion:149 Resp: 85679

Ion	Ratio	Lower	Upper
149	100		
167	23.0	22.1	33.1
279	1.9	3.0	4.4#

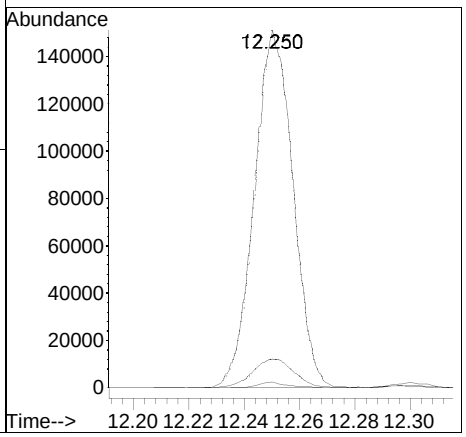




#109
Di-n-octylphthalate
Concen: 3.20 ug/ml
RT: 12.250 min Scan# 3463
Delta R.T. -0.003 min
Lab File: 938279-5.D
Acq: 24 Jun 2024 7:37 pm

Tgt Ion:149 Resp: 145114

Ion	Ratio	Lower	Upper
149	100		
43	8.9	18.8	28.2#
167	1.3	1.3	1.9



Manual Integration Report

Data Path	: I:\8270\Dakota\240624RVT\	QMethod	: FS240618RVT_14D_Dakota.m
Data File	: 938279-5.D	Operator	: Dakota:jg
Date Inj'd	: 6/24/2024 7:37 pm	Instrument	: Dakota
Sample	: WG1938279-5,32,,HNY	Quant Date	: 6/25/2024 8:13 pm

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

Calculation of Semi Volatile Organic Compounds

Aqueous Concentration Formula: Amt * DF * 1000 * (1/Vo) * Vf

Where:
DF = Dilution Factor
Vo = Volume of Sample (mL)
Vf = Extraction Lab Final Volume (mL)

Soil Concentration Formula: Amt * DF * 1000 * (1/Wt) * Vf * (100/TS)
Where:
DF = Dilution Factor
Wt = Weight of Sample (g)
Vf = Extraction Lab Final Volume (mL)
TS = Total Solids

ALPHA ANALYTICAL LABORATORIES, INC.

Alpha WORK GROUP REPORT (wk02)

Jun 26 2024, 01:23 pm

Work Group: WG1938279 for Department: 2 Organic Preparation

Created: 23-JUN-24 Due: Operator: FMM

Sample	Client ID	C	Product	Matrix	Stat	UA	HOLD	DUE	PR	Location
L2434679-02	MW-6A	C	NYTCL-8270-LVI	WATER	DONE	U	0625	0626	S0	Amber-A.25
L2434679-03	MW-6B	C	NYTCL-8270-LVI	WATER	DONE	U	0625	0626	S0	Amber-A.25
L2434679-04	MW-6C	C	NYTCL-8270-LVI	WATER	DONE	U	0625	0626	S0	Amber-A.25
L2434679-05	MW-7A	C	NYTCL-8270-LVI	WATER	DONE	U	0625	0626	S0	Amber-A.25
L2434679-06	MW-7B	C	NYTCL-8270-LVI	WATER	DONE	U	0625	0626	S0	Amber-A.25
L2434679-07	MW-7C	C	NYTCL-8270-LVI	WATER	DONE	U	0625	0626	S0	Amber-A.25
L2434679-08	MW-8A	C	NYTCL-8270-LVI	WATER	DONE	U	0625	0626	S0	Amber-A.25
L2434679-09	MW-8B	C	NYTCL-8270-LVI	WATER	DONE	U	0625	0626	S0	Amber-A.25
L2434679-11	DUP	C	NYTCL-8270-LVI	WATER	DONE	U	0625	0626	S0	Amber-A.25
L2434679-12	EB	C	NYTCL-8270-LVI	WATER	DONE	U	0625	0626	S0	Amber-A.25
L2434679-14	MW-8B2	C	NYTCL-8270-LVI	WATER	DONE	U	0625	0626	S0	Amber-A.25
WG1938279-1	Laboratory Method Bl	S	NYTCL-8270-LVI	WATER	DONE	U				
WG1938279-2	Laboratory Control S	S	NYTCL-8270-LVI	WATER	DONE	U				
WG1938279-3	LCS Duplicate	S	NYTCL-8270-LVI	WATER	DONE	U				
WG1938279-4	Matrix Spike	S	NYTCL-8270-LVI	WATER	DONE	U				
WG1938279-5	Matrix Spike Duplica	S	NYTCL-8270-LVI	WATER	DONE	U				

Comments:

WG1938279-3	WG1938279-2
WG1938279-4	L2434679-03
WG1938279-5	L2434679-03

ALPHA ANALYTICAL LABORATORIES, INC.

Alpha WORK GROUP REPORT (wk02)

Jun 26 2024, 01:23 pm

Work Group: WG1938723 for Department: 2 Organic Preparation

Created: 24-JUN-24 Due: Operator: DAE

Sample	Client ID	C	Product	Matrix	Stat	UA	HOLD	DUE	PR	Location
L2434679-01	MW-3A	C	NYTCL-8270-LVI	WATER	DONE	U	0626	0626	S0	Amber-A.25
L2434679-10	MW-9B	C	NYTCL-8270-LVI	WATER	DONE	U	0626	0626	S0	Amber-A.25
WG1938723-1	Laboratory Method Bl	S	NYTCL-8270-LVI	WATER	DONE	U				
WG1938723-2	Laboratory Control S	S	NYTCL-8270-LVI	WATER	DONE	U				
WG1938723-3	LCS Duplicate	S	NYTCL-8270-LVI	WATER	DONE	U				

Comments:

WG1938723-3 WG1938723-2

Analysis log File

Total Files Reported in Log : 33
Log Generated From Directory: I:\8270\Dakota\240618ical\

No.	DATA FILE	INJ METH	SAMPLE NAME	MISC	DATE INJ'D
1	Tune1.D	ABNRVT.M	Tune Lot#10812	WG1938219,,	6/18/2024 11:59 am
2	ABNL9.D	ABNRVT.M	IL2,32,,ABNL50 Lot# 107	WG1938219,,	6/18/2024 12:22 pm
3	ABNL8.D	ABNRVT.M	IL3,32,,ABNL25 Lot# 107	WG1938219,,	6/18/2024 12:45 pm
4	ABNL7.D	ABNRVT.M	IL4,32,,ABNL10 Lot# 107	WG1938219,,	6/18/2024 1:07 pm
5	ABNL6.D	ABNRVT.M	IL5,32,,ABNL5 Lot# 1078	WG1938219,,	6/18/2024 1:30 pm
6	ABNL5.D	ABNRVT.M	IL6,32,,ABNL2.5 Lot# 10	WG1938219,,	6/18/2024 1:52 pm
7	ABNL4.D	ABNRVT.M	IL7,32,,ABNL1 Lot# 1078	WG1938219,,	6/18/2024 2:15 pm
8	ABNL3.D	ABNRVT.M	IL8,32,,ABNL0.5 Lot# 10	WG1938219,,	6/18/2024 2:38 pm
9	ABNL2.D	ABNRVT.M	IL9,32,,ABNL0.2 Lot# 10	WG1938219,,	6/18/2024 3:00 pm
10	ABNL1.D	ABNRVT.M	IL10,32,,ABNL0.1 Lot# 1	WG1938219,,	6/18/2024 3:23 pm
11	AP9L9.D	ABNRVT.M	IL2,32,,AP9L50 Lot# 107	WG1938219,,	6/18/2024 3:46 pm
12	AP9L8.D	ABNRVT.M	IL3,32,,AP9L25 Lot# 107	WG1938219,,	6/18/2024 4:08 pm
13	AP9L7.D	ABNRVT.M	IL4,32,,AP9L10 Lot# 107	WG1938219,,	6/18/2024 4:31 pm
14	AP9L6.D	ABNRVT.M	IL5,32,,AP9L5 Lot# 1079	WG1938219,,	6/18/2024 4:54 pm
15	AP9L5.D	ABNRVT.M	IL6,32,,AP9L2.5 Lot# 10	WG1938219,,	6/18/2024 5:16 pm
16	AP9L4.D	ABNRVT.M	IL7,32,,AP9L1 Lot# 1079	WG1938219,,	6/18/2024 5:39 pm
17	AP9L3.D	ABNRVT.M	IL8,32,,AP9L0.5 Lot# 10	WG1938219,,	6/18/2024 6:02 pm
18	AP9L2.D	ABNRVT.M	IL9,32,,AP9L0.2 Lot# 10	WG1938219,,	6/18/2024 6:24 pm
19	AP9L1.D	ABNRVT.M	IL10,32,,AP9L0.1 Lot# 1	WG1938219,,	6/18/2024 6:47 pm
20	ABNICV.D	ABNRVT.M	CQICV1,32,,ABNICV Lot#	WG1938219,,	6/18/2024 7:10 pm
21	Tune2.D	ABNRVT.M	Tune Lot#10812	WG1938219,,	6/18/2024 8:19 pm
22	AP9ICV.D	ABNRVT.M	CQICV2,32,,AP9ICV Lot#	WG1938219,,	6/18/2024 8:41 pm
23	ADPL9.D	ABNRVT.M	IL2,32,,ADPL50 Lot# 107	WG1938219,,	6/18/2024 9:04 pm
24	ADPL8.D	ABNRVT.M	IL3,32,,ADPL25 Lot# 107	WG1938219,,	6/18/2024 9:26 pm
25	ADPL7.D	ABNRVT.M	IL4,32,,ADPL10 Lot# 107	WG1938219,,	6/18/2024 9:49 pm
26	ADPL6.D	ABNRVT.M	IL5,32,,ADPL5 Lot# 1079	WG1938219,,	6/18/2024 10:11 pm
27	ADPL5.D	ABNRVT.M	IL6,32,,ADPL2.5 Lot# 10	WG1938219,,	6/18/2024 10:34 pm
28	ADPL4.D	ABNRVT.M	IL7,32,,ADPL1 Lot# 1080	WG1938219,,	6/18/2024 10:56 pm
29	ADPL3.D	ABNRVT.M	IL8,32,,ADPL0.5 Lot# 10	WG1938219,,	6/18/2024 11:19 pm
30	ADPL2.D	ABNRVT.M	IL9,32,,ADPL0.2 Lot# 10	WG1938219,,	6/18/2024 11:41 pm
31	Blank.D	ABNRVT.M	Instrument Blank	WG1938219,,	6/19/2024 12:48 am
32	ADPICV.D	ABNRVT.M	CQICV3,32,,ADPICV Lot#	WG1938219,,	6/19/2024 12:26 am
33	ADPL1.D	ABNRVT.M	IL10,32,,ADPL0.1 Lot# 1	WG1938219,,	6/19/2024 12:04 am

Dep.: GCMS
Inst: Dakota
Date: **06/24/24**
Run:

Method
GC: **8270 FS RVT**

Seq: **WG1938645**

Vial	Data File	Sample	CCAL	notes
100	DEG0624	wg-1,32,,Degdftpp Lot#10853		
96	ABN0624	wg-3,32,,ABN 10777 HNY0619A		
97	AP90624	wg-4,32,,AP9 10776 HNY0619A		
98	ADP0624	wg-5,32,,ADP 10751 HNY0619A		
1	934928-1	WG1934928-1,32,,RV,HNY		
2	938087-1	WG1938087-1,32,,HNY		
3	938087-2	WG1938087-2,32,,HNY		
4	938087-3	WG1938087-3,32,,HNY		
5	938279-1	WG1938279-1,32,,HNY		
6	938279-2	WG1938279-2,32,,HNY		
7	938279-3	WG1938279-3,32,,HNY		
8	937225-1	WG1937225-1,32,,HNY		
9	937225-2	WG1937225-2,32,,HNY		
10	937225-3	WG1937225-3,32,,HNY		
11	34294-03	L2434294-03,32,,HNY		
12	938279-4	WG1938279-4,32,,HNY		
13	938279-5	WG1938279-5,32,,HNY		
14	34679-03	L2434679-03,32,,HNY		
15	34679-04	L2434679-04,32,,HNY		
16	34679-05	L2434679-05,32,,HNY		
17	34679-06	L2434679-06,32,,HNY		
18	34679-07	L2434679-07,32,,HNY		
19	34679-08	L2434679-08,32,,HNY		
20	34679-09	L2434679-09,32,,HNY		
21	34679-11	L2434679-11,32,,HNY		
22	34679-12	L2434679-12,32,,HNY		
23	34679-14	L2434679-14,32,,HNY		
24	34679-02	L2434679-02,32,,HNY		
25	33383-04	L2433383-04,32,,HNY		gmr 06/25

Dep.: GCMS
Inst: Dakota
Date: **06/25/24**
Run:

Method
GC: **8270 FS RVT**

Seq: **WG1938967**

Vial	Data File	Sample	CCAL	notes
100	DEG0625	wg-1,32,,Degdftpp Lot#10853		
96	ABN0625	wg-3,32,,ABN 10777 HNY0619A		
97	AP90625	wg-4,32,,AP9 10776 HNY0619A		
98	ADP0625	wg-5,32,,ADP 10751 HNY0619A		
1	938158-1	WG1938158-1,32,,gmr		
2	938158-2	WG1938158-2,32,,gmr		
3	938158-3	WG1938158-3,32,,gmr		
4	938723-1	WG1938723-1,32,,gmr		
5	938723-2	WG1938723-2,32,,gmr		
6	938723-3	WG1938723-3,32,,gmr		
7	34202-01	L2434202-01,32,,gmr		
8	168-01d1	L2431168-01d,32,10,RV,HNY		
9	34679-01	L2434679-01,32,,gmr		
10	34679-10	L2434679-10,32,,gmr		
11	938158-4	WG1938158-4,32,,gmr		
12	938158-5	WG1938158-5,32,,gmr		
13	22662-30	L2422662-30,32,,gmr		

ORGANIC ELN REPORT

Workgroup: WG1938723

Prep Method: EPA 3510C
Solvent Type: DCM
Surrogate Type: ABN
Spike Type: ABN
Spike Verify by: DAE
Lims Spikelot: 8270-LVI

Lot #: EI560
Lot #: 10743aa,11/06/2024,
Lot #: 10685am,10/11/2024,10727ay,(

Additional Reagents/Stds

H2SO4	A050725
Na2SO4	23L0461008
NaOH	10NNaOH060824

Conc.Method: Buchi
Solvent Type: DCM
Lot #: ei560

Additional Reagents/Stds

Cleanup 1

Cleanup Method 1:
Cleanup Method 2:
Solvent Type:
Lot #:

Additional Reagents/Stds

Sample/ Type	Extraction: Extract Date	Analyst	Sample Vol ml	Ph	Surr Amt ml	Spike Amt ml	Concentration: Conc Date	Analyst	Final Vol ml	Conc Unit
L2434679-01 WATER	06/24/24 17:10	Daniel Erhagbai	275	<2,>12	1		06/24/24 22:37	Victor Kono	1	H
L2434679-10 WATER	06/24/24 17:10	Daniel Erhagbai	275	<2,>12	1		06/24/24 22:37	Victor Kono	1	H
WG1938723-1 BLANK	06/24/24 17:10	Daniel Erhagbai	275	<2,>12	1		06/24/24 22:37	Victor Kono	1	H
	Sharing Qc's with WG1938725									
WG1938723-2 LCS	06/24/24 17:10	Daniel Erhagbai	275	<2,>12	1	1	06/24/24 22:37	Victor Kono	1	H
WG1938723-3 LCSD	06/24/24 17:10	Daniel Erhagbai	275	<2,>12	1	1	06/24/24 22:37	Victor Kono	1	H

Reported: 26-JUN-24 01:23 PM

ORGANIC ELN REPORT

Workgroup: WG1938279

Prep Method: EPA 3510C
Solvent Type: DCM **Lot #:** EI560
Surrogate Type: ABN **Lot #:** 10743aa,11/06/2024,4c,25,7
Spike Type: ABN **Lot #:** 10685am,10/11/2024,10727ay,(
Spike Verify by: FMM
Lims Spikelot: 8270-LVI

Additional Reagents/Stds

H2SO4	A052024
Na2SO4	23L0461008
NaOH	10NNaOH060824

Conc.Method: Buchi
Solvent Type: DCM
Lot #: EI560

Additional Reagents/Stds

Cleanup 1

Cleanup Method 1:
Cleanup Method 2:
Solvent Type: **Lot #:**

Additional Reagents/Stds

Sample/ Type	Extraction: Extract Date	Analyst	Sample Vol ml	Ph	Surr Amt ml	Spike Amt ml	Concentration: Conc Date	Analyst	Final Vol ml	Conc Unit
L2434679-02 WATER	06/24/24 05:05	Francis Mbro-Menyah	275	<2,>12	1		06/24/24 09:25	Grace Tran	1	H
L2434679-03 WATER	06/23/24 23:55	Francis Mbro-Menyah	275	<2,>12	1		06/24/24 06:11	Alaina Ohara-Cruz	1	H
L2434679-04 WATER	06/23/24 23:55	Francis Mbro-Menyah	275	<2,>12	1		06/24/24 05:28	Alaina Ohara-Cruz	1	H
L2434679-05 WATER	06/23/24 23:55	Francis Mbro-Menyah	275	<2,>12	1		06/24/24 05:28	Alaina Ohara-Cruz	1	H
L2434679-06 WATER	06/23/24 23:55	Francis Mbro-Menyah	275	<2,>12	1		06/24/24 06:18	Alaina Ohara-Cruz	1	H

Reported: 26-JUN-24 01:23 PM

ORGANIC ELN REPORT

Workgroup: WG1938279

Sample/ Type	Extraction						Concentration			
	Extract Date	Analyst	Sample Vol **ml**	Ph	Surr Amt **ml**	Spike Amt **ml**	Conc Date	Analyst	Final Vol **ml**	Conc Unit
L2434679-07 WATER	06/23/24 23:55	Francis Mbro-Menyah	275	<2,>12	1		06/24/24 05:28	Alaina Ohara-Cruz	1	H
L2434679-08 WATER	06/23/24 23:55	Francis Mbro-Menyah	275	<2,>12	1		06/24/24 06:11	Alaina Ohara-Cruz	1	H
L2434679-09 WATER	06/23/24 23:55	Francis Mbro-Menyah	275	<2,>12	1		06/24/24 05:28	Alaina Ohara-Cruz	1	H
L2434679-11 WATER	06/23/24 23:55	Francis Mbro-Menyah	275	<2,>12	1		06/24/24 07:17	Grace Tran	1	H
L2434679-12 WATER	06/23/24 23:55	Francis Mbro-Menyah	275	<2,>12	1		06/24/24 07:17	Grace Tran	1	H
L2434679-14 WATER	06/23/24 23:55	Francis Mbro-Menyah	275	<2,>12	1		06/24/24 07:17	Grace Tran	1	H
WG1938279-1 BLANK	06/23/24 23:55 **WG1938280**	Francis Mbro-Menyah	275	<2,>12	1		06/24/24 05:27	Alaina Ohara-Cruz	1	H
WG1938279-2 LCS	06/23/24 23:55	Francis Mbro-Menyah	275	<2,>12	1	1	06/24/24 05:28	Alaina Ohara-Cruz	1	H

Reported: 26-JUN-24 01:23 PM

ORGANIC ELN REPORT

Workgroup: WG1938279

Sample/ Type	Extraction						Concentration			
	Extract Date	Analyst	Sample Vol **ml**	Ph	Surr Amt **ml**	Spike Amt **ml**	Conc Date	Analyst	Final Vol **ml**	Conc Unit
WG1938279-3 LCSD	06/23/24 23:55	Francis Mbro-Menyah	275	<2,>12	1	1	06/24/24 05:28	Alaina Ohara-Cruz	1	H
WG1938279-4 MS	06/23/24 23:55	Francis Mbro-Menyah	275	<2,>12	1	1	06/24/24 06:11	Alaina Ohara-Cruz	1	H
WG1938279-5 MSD	06/23/24 23:55	Francis Mbro-Menyah	275	<2,>12	1	1	06/24/24 06:11	Alaina Ohara-Cruz	1	H

Semivolatiles Data
by Method 8270D-SIM

Semivolatiles QC Summary

Surrogate Recovery Summary
Form 2
Semivolatiles

Client: Alpha Geoscience
Project Name: RANCO MINE

Lab Number: L2434679
Project Number: 12123
Matrix: Water

CLIENT ID (LAB SAMPLE NO.)	S1 (2FP)	S2 (PHL)	S3 (NBZ)	S4 (FBP)	S5 (TBP)	S6 (TPH)	TOT OUT
MW-3A (L2434679-01)	53	46	85	64	57	66	0
MW-6A (L2434679-02)	57	52	77	60	61	58	0
MW-6B (L2434679-03)	70	61	99	77	79	78	0
MW-6C (L2434679-04)	77	67	107	83	87	82	0
MW-7A (L2434679-05)	77	68	107	84	95	89	0
MW-7B (L2434679-06)	80	71	110	86	95	92	0
MW-7C (L2434679-07)	78	69	105	83	94	92	0
MW-8A (L2434679-08)	81	72	112	88	92	90	0
MW-8B (L2434679-09)	75	65	108	87	87	89	0
MW-9B (L2434679-10)	56	47	92	69	69	75	0
DUP (L2434679-11)	54	47	78	61	62	62	0
EB (L2434679-12)	65	56	91	71	75	73	0
MW-8B2 (L2434679-14)	67	59	93	72	73	72	0
WG1938280-1BLANK	68	60	124*	79	84	85	1
WG1938280-2LCS	68	64	92	67	83	75	0
WG1938280-3LCSD	65	60	88	64	80	69	0
MW-6BMS	67	61	94	69	87	77	0
MW-6BMSD	64	59	87	61	73	66	0
WG1938725-1BLANK	63	51	96	77	70	77	0
WG1938725-2LCS	56	50	83	58	68	65	0
WG1938725-3LCSD	66	59	99	69	81	76	0

QC LIMITS

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

*** Values outside of QC limits**

Laboratory Control Sample Summary
Form 3
Semivolatiles

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Matrix (Level)	: WATER (LOW)		
LCS Sample ID	: WG1938280-2	**Analysis Date** : 06/24/24 12:18	**File ID** : 938280-2
LCSD Sample ID	: WG1938280-3	**Analysis Date** : 06/24/24 12:35	**File ID** : 938280-3

	Laboratory Control Sample			Laboratory Control Duplicate					
Parameter	True (ug/l)	Found (ug/l)	%R	True (ug/l)	Found (ug/l)	%R	RPD	Recovery Limits	RPD Limit
Acenaphthene	18	12	69	18	12	66	4	40-140	40
2-Chloronaphthalene	18	12	65	18	11	62	5	40-140	40
Fluoranthene	18	14	78	18	13	73	7	40-140	40
Hexachlorobutadiene	18	10	58	18	10	55	5	40-140	40
Naphthalene	18	12	66	18	11	63	5	40-140	40
Benzo(a)anthracene	18	13	74	18	13	70	6	40-140	40
Benzo(a)pyrene	18	14	78	18	13	73	7	40-140	40
Benzo(b)fluoranthene	18	14	76	18	13	72	5	40-140	40
Benzo(k)fluoranthene	18	14	79	18	13	73	8	40-140	40
Chrysene	18	13	72	18	12	68	6	40-140	40
Acenaphthylene	18	12	66	18	12	65	2	40-140	40
Anthracene	18	14	74	18	13	72	3	40-140	40
Benzo(ghi)perylene	18	14	75	18	12	69	8	40-140	40
Fluorene	18	13	74	18	13	70	6	40-140	40
Phenanthrene	18	13	71	18	12	67	6	40-140	40
Dibenzo(a,h)anthracene	18	15	82	18	14	76	8	40-140	40
Indeno(1,2,3-cd)pyrene	18	15	83	18	14	75	10	40-140	40
Pyrene	18	14	80	18	14	75	6	40-140	40
2-Methylnaphthalene	18	12	67	18	12	64	5	40-140	40
Pentachlorophenol	18	16	88	18	15	82	7	40-140	40
Hexachlorobenzene	18	12	68	18	12	65	5	40-140	40
Hexachloroethane	18	13	70	18	11	63	11	40-140	40

Laboratory Control Sample Summary
Form 3
Semivolatiles

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Matrix (Level)	: WATER (LOW)		
LCS Sample ID	: WG1938725-2	**Analysis Date** : 06/25/24 11:02	**File ID** : 938725-2
LCSD Sample ID	: WG1938725-3	**Analysis Date** : 06/25/24 11:19	**File ID** : 938725-3

	Laboratory Control Sample			Laboratory Control Duplicate					
Parameter	True (ug/l)	Found (ug/l)	%R	True (ug/l)	Found (ug/l)	%R	RPD	Recovery Limits	RPD Limit
Acenaphthene	18	11	60	18	13	72	18	40-140	40
2-Chloronaphthalene	18	10	57	18	12	68	18	40-140	40
Fluoranthene	18	12	67	18	15	81	19	40-140	40
Hexachlorobutadiene	18	9.0	50	18	11	59	17	40-140	40
Naphthalene	18	11	58	18	13	69	17	40-140	40
Benzo(a)anthracene	18	11	62	18	13	74	18	40-140	40
Benzo(a)pyrene	18	12	65	18	14	78	18	40-140	40
Benzo(b)fluoranthene	18	12	65	18	14	76	16	40-140	40
Benzo(k)fluoranthene	18	12	66	18	15	81	20	40-140	40
Chrysene	18	11	62	18	14	74	18	40-140	40
Acenaphthylene	18	11	60	18	13	72	18	40-140	40
Anthracene	18	12	63	18	14	75	17	40-140	40
Benzo(ghi)perylene	18	11	63	18	14	74	16	40-140	40
Fluorene	18	11	63	18	14	78	21	40-140	40
Phenanthrene	18	11	60	18	13	72	18	40-140	40
Dibenzo(a,h)anthracene	18	12	69	18	15	81	16	40-140	40
Indeno(1,2,3-cd)pyrene	18	12	68	18	15	82	19	40-140	40
Pyrene	18	13	70	18	15	83	17	40-140	40
2-Methylnaphthalene	18	11	59	18	13	71	18	40-140	40
Pentachlorophenol	18	13	70	18	15	82	16	40-140	40
Hexachlorobenzene	18	9.8	54	18	12	63	15	40-140	40
Hexachloroethane	18	11	59	18	13	72	20	40-140	40

Matrix Spike Sample Summary
Form 3
Semivolatiles

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Client Sample ID	: MW-6B	**Matrix (Level)**	: WATER (LOW)
Lab Sample ID	: L2434679-03	**Analysis Date**	: 06/24/24 12:51
Matrix Spike	: WG1938280-4	**MS Analysis Date**	: 06/24/24 13:08
Matrix Spike Dup	: WG1938280-5	**MSD Analysis Date**	: 06/24/24 13:25

		Matrix Spike Sample			Matrix Spike Duplicate					
Parameter	Sample Conc. (ug/l)	Spike Added (ug/l)	Spike Conc. (ug/l)	%R	Spike Added (ug/l)	Spike Conc. (ug/l)	%R	RPD	Recovery Limits	RPD Limit
Acenaphthene	ND	18.2	13	72	18.2	11	61	17	40-140	40
2-Chloronaphthalene	ND	18.2	12	66	18.2	11	61	9	40-140	40
Fluoranthene	ND	18.2	15	83	18.2	13	72	14	40-140	40
Hexachlorobutadiene	ND	18.2	11	61	18.2	9.9	54	11	40-140	40
Naphthalene	0.12	18.2	12	65	18.2	11	60	9	40-140	40
Benzo(a)anthracene	ND	18.2	14	77	18.2	12	66	15	40-140	40
Benzo(a)pyrene	ND	18.2	15	83	18.2	12	66	22	40-140	40
Benzo(b)fluoranthene	ND	18.2	14	77	18.2	12	66	15	40-140	40
Benzo(k)fluoranthene	ND	18.2	15	83	18.2	13	72	14	40-140	40
Chrysene	ND	18.2	14	77	18.2	12	66	15	40-140	40
Acenaphthylene	ND	18.2	13	72	18.2	11	61	17	40-140	40
Anthracene	ND	18.2	14	77	18.2	12	66	15	40-140	40
Benzo(ghi)perylene	ND	18.2	14	77	18.2	12	66	15	40-140	40
Fluorene	ND	18.2	14	77	18.2	12	66	15	40-140	40
Phenanthrene	0.03J	18.2	13	72	18.2	11	61	17	40-140	40
Dibenzo(a,h)anthracene	ND	18.2	15	83	18.2	13	72	14	40-140	40
Indeno(1,2,3-cd)pyrene	ND	18.2	15	83	18.2	13	72	14	40-140	40
Pyrene	ND	18.2	15	83	18.2	13	72	14	40-140	40
2-Methylnaphthalene	ND	18.2	13	72	18.2	11	61	17	40-140	40
Pentachlorophenol	ND	18.2	17	94	18.2	14	77	19	40-140	40
Hexachlorobenzene	ND	18.2	13	72	18.2	11	61	17	40-140	40
Hexachloroethane	ND	18.2	13	72	18.2	12	66	8	40-140	40

Method Blank Summary
Form 4
Semivolatiles

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Lab Sample ID	: WG1938280-1	**Lab File ID**	: 938280-1
Instrument ID	: SV128	**Extraction Date**	: 06/23/24
Matrix	: WATER	**Analysis Date**	: 06/24/24 12:02
Level	: LOW		

Client Sample No.	Lab Sample ID	Analysis Date
WG1938280-2LCS	WG1938280-2	06/24/24 12:18
WG1938280-3LCSD	WG1938280-3	06/24/24 12:35
MW-6B	L2434679-03	06/24/24 12:51
MW-6BMS	WG1938280-4	06/24/24 13:08
MW-6BMSD	WG1938280-5	06/24/24 13:25
MW-6A	L2434679-02	06/24/24 13:41
MW-6C	L2434679-04	06/24/24 13:58
MW-7A	L2434679-05	06/24/24 14:14
MW-7B	L2434679-06	06/24/24 14:31
MW-7C	L2434679-07	06/24/24 14:48
MW-8A	L2434679-08	06/24/24 15:04
MW-8B	L2434679-09	06/24/24 15:21
DUP	L2434679-11	06/24/24 15:38
EB	L2434679-12	06/24/24 15:54
MW-8B2	L2434679-14	06/24/24 16:11

Method Blank Summary
Form 4
Semivolatiles

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Lab Sample ID	: WG1938725-1	**Lab File ID**	: 938725-1
Instrument ID	: SV128	**Extraction Date**	: 06/24/24
Matrix	: WATER	**Analysis Date**	: 06/25/24 10:45
Level	: LOW		

Client Sample No.	Lab Sample ID	Analysis Date
WG1938725-2LCS	WG1938725-2	06/25/24 11:02
WG1938725-3LCSD	WG1938725-3	06/25/24 11:19
MW-3A	L2434679-01	06/25/24 11:53
MW-9B	L2434679-10	06/25/24 12:10

Instrument Performance Check (Tune) Summary
Form 5
Semivolatiles
Decafluorotriphenylphosphine (DFTPP)

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Instrument ID	: SV128	**Analysis Date**	: 12/11/23 13:03
Tune Standard	: R1775555-1	**Tune File ID**	: TUNE_tune

m/e	Ion Abundance Criteria	%Relative Abundance
51	10.0 - 80.0% of Base Peak	44.3
68	Less than 2.0% of mass 69	0.6 (1.6)1
69		100
70	Less than 2.0% of mass 69	0.2 (.5)1
127	10.0 - 80.0% of Base Peak	50
197	Less than 2.0% of mass 198	0
198	Base Peak, or >50% of mass 442	100
199	5.0 - 9.0% of mass 198	6.8
275	10.0 - 60.0% of Base Peak	27.1
365	Greater than 1.0% of mass 198	3.6
441	Present, but less than 24% of mass 442	18.5
442	Base Peak, or >50% of mass 198	93.6
443	15.0 - 24.0% of mass 442	19.1 (20.5)2

1-Value is % of mass 69 2-Value is % of mass 442

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

Client Sample ID	Lab Sample ID	File ID	Analysis Date/Time
IL10	R1775555-3	IL10	12/11/23 13:27
IL9	R1775555-12	IL9	12/11/23 13:44
IL8	R1775555-11	IL8	12/11/23 14:00
IL7	R1775555-10	IL7	12/11/23 14:17
IL6	R1775555-9	IL6	12/11/23 14:33
IL5	R1775555-8	IL5	12/11/23 14:50
IL4	R1775555-7	IL4	12/11/23 15:06
IL3	R1775555-6	IL3	12/11/23 15:23
IL2	R1775555-5	IL2	12/11/23 15:40

Instrument Performance Check (Tune) Summary
Form 5
Semivolatiles
Decafluorotriphenylphosphine (DFTPP)

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Instrument ID	: SV128	**Analysis Date**	: 12/13/23 06:43
Tune Standard	: R1775555-2	**Tune File ID**	: TUNEa_tune

m/e	Ion Abundance Criteria	%Relative Abundance
51	10.0 - 80.0% of Base Peak	44.9
68	Less than 2.0% of mass 69	0.6 (1.6)1
69		100
70	Less than 2.0% of mass 69	0.1 (.3)1
127	10.0 - 80.0% of Base Peak	49.2
197	Less than 2.0% of mass 198	0
198	Base Peak, or >50% of mass 442	100
199	5.0 - 9.0% of mass 198	7
275	10.0 - 60.0% of Base Peak	26.1
365	Greater than 1.0% of mass 198	3.4
441	Present, but less than 24% of mass 442	18.3
442	Base Peak, or >50% of mass 198	93
443	15.0 - 24.0% of mass 442	17.4 (18.7)2

1-Value is % of mass 69 2-Value is % of mass 442

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

Client Sample ID	Lab Sample ID	File ID	Analysis Date/Time
IL1a	R1775555-4	IL1A	12/13/23 07:14
ICV Quant Report	R1775555-13	ICVA	12/13/23 07:30

Instrument Performance Check (Tune) Summary
Form 5
Semivolatiles
Decafluorotriphenylphosphine (DFTPP)

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Instrument ID	: SV128	**Analysis Date**	: 06/24/24 11:04
Tune Standard	: WG1938533-1	**Tune File ID**	: deg0624_tune

m/e	Ion Abundance Criteria	%Relative Abundance
51	10.0 - 80.0% of Base Peak	55.3
68	Less than 2.0% of mass 69	0.7 (1.6)1
69		100
70	Less than 2.0% of mass 69	0 (0)1
127	10.0 - 80.0% of Base Peak	52.1
197	Less than 2.0% of mass 198	0
198	Base Peak, or >50% of mass 442	100
199	5.0 - 9.0% of mass 198	6.7
275	10.0 - 60.0% of Base Peak	23
365	Greater than 1.0% of mass 198	2.7
441	Present, but less than 24% of mass 442	17.8
442	Base Peak, or >50% of mass 198	62.6
443	15.0 - 24.0% of mass 442	12.8 (20.4)2

1-Value is % of mass 69 2-Value is % of mass 442

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

Client Sample ID	Lab Sample ID	File ID	Analysis Date/Time
WG1938533-4TFACTOR-B	WG1938533-4	DEG0624	06/24/24 11:04
WG1938533-5TFACTOR-P	WG1938533-5	DEG0624	06/24/24 11:04
WG1938533-3CCAL	WG1938533-3	CCV0624	06/24/24 11:21
WG1938280-1BLANK	WG1938280-1	938280-1	06/24/24 12:02
WG1938280-2LCS	WG1938280-2	938280-2	06/24/24 12:18
WG1938280-3LCSD	WG1938280-3	938280-3	06/24/24 12:35
MW-6B	L2434679-03	34679-03	06/24/24 12:51
WG1938280-4MS	WG1938280-4	938280-4	06/24/24 13:08
WG1938280-5MSD	WG1938280-5	938280-5	06/24/24 13:25
MW-6A	L2434679-02	34679-02	06/24/24 13:41
MW-6C	L2434679-04	34679-04	06/24/24 13:58
MW-7A	L2434679-05	34679-05	06/24/24 14:14
MW-7B	L2434679-06	34679-06	06/24/24 14:31
MW-7C	L2434679-07	34679-07	06/24/24 14:48
MW-8A	L2434679-08	34679-08	06/24/24 15:04
MW-8B	L2434679-09	34679-09	06/24/24 15:21
DUP	L2434679-11	34679-11	06/24/24 15:38
EB	L2434679-12	34679-12	06/24/24 15:54
MW-8B2	L2434679-14	34679-14	06/24/24 16:11

Instrument Performance Check (Tune) Summary
Form 5
Semivolatiles
Decafluorotriphenylphosphine (DFTPP)

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Instrument ID	: SV128	**Analysis Date**	: 06/25/24 09:43
Tune Standard	: WG1939038-1	**Tune File ID**	: deg0625_tune

m/e	Ion Abundance Criteria	%Relative Abundance
51	10.0 - 80.0% of Base Peak	55.3
68	Less than 2.0% of mass 69	0.4 (1)1
69		100
70	Less than 2.0% of mass 69	0 (0)1
127	10.0 - 80.0% of Base Peak	49.2
197	Less than 2.0% of mass 198	0
198	Base Peak, or >50% of mass 442	100
199	5.0 - 9.0% of mass 198	6.5
275	10.0 - 60.0% of Base Peak	21.7
365	Greater than 1.0% of mass 198	2.7
441	Present, but less than 24% of mass 442	19
442	Base Peak, or >50% of mass 198	60
443	15.0 - 24.0% of mass 442	12.1 (20.1)2

1-Value is % of mass 69 2-Value is % of mass 442

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

Client Sample ID	Lab Sample ID	File ID	Analysis Date/Time
WG1939038-4TFACTOR-B	WG1939038-4	DEG0625	06/25/24 09:43
WG1939038-5TFACTOR-P	WG1939038-5	DEG0625	06/25/24 09:43
WG1939038-3CCAL	WG1939038-3	CCV0625	06/25/24 10:01
WG1938725-1BLANK	WG1938725-1	938725-1	06/25/24 10:45
WG1938725-2LCS	WG1938725-2	938725-2	06/25/24 11:02
WG1938725-3LCSD	WG1938725-3	938725-3	06/25/24 11:19
MW-3A	L2434679-01	34679-01	06/25/24 11:53
MW-9B	L2434679-10	34679-10	06/25/24 12:10

Internal Standard Area and RT Summary
Form 8a
Semivolatiles

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Instrument ID	: SV128	**Analysis Date**	: 06/24/24 11:21:00
Sample No	: WG1938533-3	**Lab File ID**	: CCV0624

	1,4-Dichlorobenzene-d4		Naphthalene-d8		Acenaphthene-d10	
	Area	RT	Area	RT	Area	RT
WG1938533-3	4069	2.31	14375	2.98	8180	3.96
Upper Limit	8138	2.81	28750	3.48	16360	4.46
Lower Limit	2035	1.81	7188	2.48	4090	3.46
Sample ID						
WG1938280-1 BLANK	3765	2.29	12909	2.97	7122	3.96
WG1938280-2 LCS	3879	2.30	14581	2.97	7588	3.96
WG1938280-3 LCSD	4042	2.30	15122	2.97	7956	3.96
MW-6B	3963	2.30	13711	2.97	7588	3.96
MW-6B MS	3967	2.30	14938	2.98	7878	3.96
MW-6B MSD	4047	2.30	15127	2.97	8025	3.96
MW-6A	4348	2.30	15171	2.97	8890	3.96
MW-6C	3694	2.30	12864	2.97	7108	3.96
MW-7A	3643	2.30	12670	2.98	7030	3.96
MW-7B	3544	2.30	12273	2.98	6819	3.96
MW-7C	3663	2.30	12644	2.97	6955	3.96
MW-8A	3714	2.30	12984	2.97	7125	3.96
MW-8B	3750	2.30	13011	2.97	7144	3.96
DUP	4350	2.30	15015	2.98	8358	3.96
EB	4165	2.30	14440	2.98	8098	3.96
MW-8B2	4389	2.30	15248	2.97	8499	3.96

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

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

* Values outside of QC limits

Internal Standard Area and RT Summary
Form 8a
Semivolatiles

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Instrument ID	: SV128	**Analysis Date**	: 06/24/24 11:21:00
Sample No	: WG1938533-3	**Lab File ID**	: CCV0624

	Phenanthrene-d10		Chrysene-d12		Perylene-d12	
	Area	RT	Area	RT	Area	RT
WG1938533-3	17962	4.81	16460	6.39	18271	7.72
Upper Limit	35924	5.31	32920	6.89	36542	8.22
Lower Limit	8981	4.31	8230	5.89	9136	7.22
Sample ID						
WG1938280-1 BLANK	15506	4.81	13633	6.40	15342	7.72
WG1938280-2 LCS	16327	4.81	15077	6.39	17177	7.70
WG1938280-3 LCSD	17085	4.81	15556	6.39	17742	7.70
MW-6B	16686	4.81	15166	6.38	16640	7.70
MW-6B MS	17128	4.81	16749	6.39	19742	7.70
MW-6B MSD	17143	4.81	16234	6.39	19593	7.70
MW-6A	20150	4.81	18415	6.39	21381	7.70
MW-6C	15469	4.81	14025	6.39	15873	7.69
MW-7A	15182	4.81	13967	6.39	15565	7.70
MW-7B	14931	4.81	13641	6.39	15123	7.70
MW-7C	15161	4.81	13577	6.39	14421	7.70
MW-8A	15849	4.81	14139	6.38	15869	7.70
MW-8B	15832	4.81	14231	6.39	16062	7.69
DUP	18515	4.81	16871	6.39	19157	7.70
EB	17819	4.81	16285	6.39	18512	7.70
MW-8B2	18863	4.81	17053	6.39	18980	7.70

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

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

* Values outside of QC limits

Internal Standard Area and RT Summary
Form 8a
Semivolatiles

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Instrument ID	: SV128	**Analysis Date**	: 06/25/24 10:01:00
Sample No	: WG1939038-3	**Lab File ID**	: CCV0625

	1,4-Dichlorobenzene-d4		Naphthalene-d8		Acenaphthene-d10	
	Area	RT	Area	RT	Area	RT
WG1939038-3	3868	2.31	14097	2.98	8577	3.97
Upper Limit	7736	2.81	28194	3.48	17154	4.47
Lower Limit	1934	1.81	7049	2.48	4289	3.47
Sample ID						
WG1938725-1 BLANK	3047	2.29	10623	2.97	6184	3.96
WG1938725-2 LCS	3329	2.30	12685	2.97	7005	3.96
WG1938725-3 LCSD	3348	2.30	13111	2.97	7118	3.96
MW-3A	3213	2.30	11506	2.98	6875	3.96
MW-9B	3302	2.30	11649	2.98	6896	3.96

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

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

* Values outside of QC limits

Internal Standard Area and RT Summary
Form 8a
Semivolatiles

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Instrument ID	: SV128	**Analysis Date**	: 06/25/24 10:01:00
Sample No	: WG1939038-3	**Lab File ID**	: CCV0625

	Phenanthrene-d10		Chrysene-d12		Perylene-d12	
	Area	RT	Area	RT	Area	RT
WG1939038-3	20055	4.81	19835	6.39	22257	7.70
Upper Limit	40110	5.31	39670	6.89	44514	8.20
Lower Limit	10028	4.31	9918	5.89	11129	7.20
Sample ID						
WG1938725-1 BLANK	14074	4.81	13105	6.40	14863	7.71
WG1938725-2 LCS	15621	4.81	14868	6.39	17110	7.69
WG1938725-3 LCSD	16144	4.81	15304	6.39	17436	7.70
MW-3A	15991	4.81	16332	6.39	19704	7.70
MW-9B	16157	4.81	16424	6.39	19276	7.70

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

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

* Values outside of QC limits

Date Created: 03/07/23
Created By: Jason Hebert
File: PM14021-1
Page: 1

EPA 8270E Low Level PAH (WATER)

Holding Time: 7 days
Container/Sample Preservation: 2 - Amber 1000ml unpreserved

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria		
Acenaphthene	83-32-9	0.1	0.035	ug/l	40-140	40	40-140	40	40			
2-Chloronaphthalene	91-58-7	0.2	0.035	ug/l	40-140	40	40-140	40	40			
Fluoranthene	206-44-0	0.1	0.038	ug/l	40-140	40	40-140	40	40			
Hexachlorobutadiene	87-68-3	0.5	0.036	ug/l	40-140	40	40-140	40	40			
Naphthalene	91-20-3	0.1	0.043	ug/l	40-140	40	40-140	40	40			
Benzo(a)anthracene	56-55-3	0.1	0.018	ug/l	40-140	40	40-140	40	40			
Benzo(a)pyrene	50-32-8	0.1	0.039	ug/l	40-140	40	40-140	40	40			
Benzo(b)fluoranthene	205-99-2	0.1	0.016	ug/l	40-140	40	40-140	40	40			
Benzo(k)fluoranthene	207-08-9	0.1	0.042	ug/l	40-140	40	40-140	40	40			
Chrysene	218-01-9	0.1	0.038	ug/l	40-140	40	40-140	40	40			
Acenaphthylene	208-96-8	0.1	0.035	ug/l	40-140	40	40-140	40	40			
Anthracene	120-12-7	0.1	0.035	ug/l	40-140	40	40-140	40	40			
Benzo(ghi)perylene	191-24-2	0.1	0.042	ug/l	40-140	40	40-140	40	40			
Fluorene	86-73-7	0.1	0.037	ug/l	40-140	40	40-140	40	40			
Phenanthrene	85-01-8	0.1	0.015	ug/l	40-140	40	40-140	40	40			
Dibenzo(a,h)anthracene	53-70-3	0.1	0.039	ug/l	40-140	40	40-140	40	40			
Indeno(1,2,3-cd)Pyrene	193-39-5	0.1	0.04	ug/l	40-140	40	40-140	40	40			
Pyrene	129-00-0	0.1	0.04	ug/l	40-140	40	40-140	40	40			
1-Methylnaphthalene	90-12-0	0.1	0.041	ug/l	40-140	40	40-140	40	40			
2-Methylnaphthalene	91-57-6	0.1	0.045	ug/l	40-140	40	40-140	40	40			
Pentachlorophenol	87-86-5	0.8	0.22	ug/l	40-140	40	40-140	40	40			
Hexachlorobenzene	118-74-1	0.8	0.032	ug/l	40-140	40	40-140	40	40			
Hexachloroethane	67-72-1	0.8	0.03	ug/l	40-140	40	40-140	40	40			
2-Fluorophenol	*367-12-4*									*21-120*		
Phenol-d6	*13127-88-3*									*10-120*		
Nitrobenzene-d5	*4165-60-0*									*23-120*		
2-Fluorobiphenyl	*321-60-8*									*15-120*		
2,4,6-Tribromophenol	*118-79-6*									*10-120*		
4-Terphenyl-d14	*1718-51-0*									*41-149*		

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

Date Created: 03/07/23
Created By: Jason Hebert
File: PM14022-1
Page: 1

EPA 8270E Low Level PAH (SOIL)

Holding Time: 14 days
Container/Sample Preservation: 1 - Glass 250ml/8oz unpreserved

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria		
Acenaphthene	83-32-9	6.68	1.4028	ug/kg	40-140	50	40-140	50	50			
2-Chloronaphthalene	91-58-7	6.68	0.8684	ug/kg	40-140	50	40-140	50	50			
Fluoranthene	206-44-0	6.68	0.4676	ug/kg	40-140	50	40-140	50	50			
Hexachlorobutadiene	87-68-3	6.68	0.9352	ug/kg	34-107	50	40-140	50	50			
Naphthalene	91-20-3	6.68	1.2024	ug/kg	40-140	50	40-140	50	50			
Benzo(a)anthracene	56-55-3	6.68	0.6346	ug/kg	40-140	50	40-140	50	50			
Benzo(a)pyrene	50-32-8	6.68	0.8016	ug/kg	40-140	50	40-140	50	50			
Benzo(b)fluoranthene	205-99-2	6.68	0.6346	ug/kg	40-140	50	40-140	50	50			
Benzo(k)fluoranthene	207-08-9	6.68	0.6012	ug/kg	40-140	50	40-140	50	50			
Chrysene	218-01-9	6.68	0.501	ug/kg	40-140	50	40-140	50	50			
Acenaphthylene	208-96-8	6.68	0.835	ug/kg	40-140	50	40-140	50	50			
Anthracene	120-12-7	6.68	0.5344	ug/kg	40-140	50	40-140	50	50			
Benzo(ghi)perylene	191-24-2	6.68	0.5678	ug/kg	40-140	50	40-140	50	50			
Fluorene	86-73-7	6.68	0.8016	ug/kg	40-140	50	40-140	50	50			
Phenanthrene	85-01-8	6.68	0.5678	ug/kg	40-140	50	40-140	50	50			
Dibenzo(a,h)anthracene	53-70-3	6.68	0.668	ug/kg	40-140	50	40-140	50	50			
Indeno(1,2,3-cd)Pyrene	193-39-5	6.68	0.8016	ug/kg	40-140	50	40-140	50	50			
Pyrene	129-00-0	6.68	0.4676	ug/kg	35-142	50	35-142	50	50			
1-Methylnaphthalene	90-12-0	6.68	1.0354	ug/kg	40-140	50	40-140	50	50			
2-Methylnaphthalene	91-57-6	6.68	1.9038	ug/kg	40-140	50	40-140	50	50			
Pentachlorophenol	87-86-5	26.72	2.9392	ug/kg	17-109	50	17-109	50	50			
Hexachlorobenzene	118-74-1	6.68	0.7014	ug/kg	40-140	50	40-140	50	50			
Hexachloroethane	67-72-1	6.68	1.2358	ug/kg	29-106	50	40-140	50	50			
2-Fluorophenol	*367-12-4*									*25-120*		
Phenol-d6	*13127-88-3*									*10-120*		
Nitrobenzene-d5	*4165-60-0*									*23-120*		
2-Fluorobiphenyl	*321-60-8*									*30-120*		
2,4,6-Tribromophenol	*118-79-6*									*10-136*		
4-Terphenyl-d14	*1718-51-0*									*18-120*		

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

Semivolatile Sample Data

Results Summary
Form 1
Semivolatile Organics by GC/MS-SIM

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Lab ID	: L2434679-01	**Date Collected**	: 06/19/24 09:30
Client ID	: MW-3A	**Date Received**	: 06/19/24
Sample Location	: MANORVILLE, NY	**Date Analyzed**	: 06/25/24 11:53
Sample Matrix	: WATER	**Date Extracted**	: 06/24/24
Analytical Method	: 1,8270E-SIM	**Dilution Factor**	: 1
Lab File ID	: 34679-01	**Analyst**	: JJW
Sample Amount	: 275 ml	**Instrument ID**	: SV128
Extraction Method	: EPA 3510C	**GC Column**	: RXI-5SilM
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
83-32-9	Acenaphthene	ND	0.10	0.01	U
91-58-7	2-Chloronaphthalene	ND	0.20	0.02	U
206-44-0	Fluoranthene	ND	0.10	0.02	U
87-68-3	Hexachlorobutadiene	ND	0.50	0.05	U
91-20-3	Naphthalene	ND	0.10	0.05	U
56-55-3	Benzo(a)anthracene	ND	0.10	0.02	U
50-32-8	Benzo(a)pyrene	ND	0.10	0.02	U
205-99-2	Benzo(b)fluoranthene	ND	0.10	0.01	U
207-08-9	Benzo(k)fluoranthene	ND	0.10	0.01	U
218-01-9	Chrysene	ND	0.10	0.01	U
208-96-8	Acenaphthylene	ND	0.10	0.01	U
120-12-7	Anthracene	ND	0.10	0.01	U
191-24-2	Benzo(ghi)perylene	ND	0.10	0.01	U
86-73-7	Fluorene	ND	0.10	0.01	U
85-01-8	Phenanthrene	ND	0.10	0.02	U
53-70-3	Dibenzo(a,h)anthracene	ND	0.10	0.01	U
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.10	0.01	U
129-00-0	Pyrene	ND	0.10	0.02	U
91-57-6	2-Methylnaphthalene	ND	0.10	0.02	U
87-86-5	Pentachlorophenol	ND	0.80	0.01	U
118-74-1	Hexachlorobenzene	ND	0.80	0.01	U
67-72-1	Hexachloroethane	ND	0.80	0.06	U

Results Summary
Form 1
Semivolatile Organics by GC/MS-SIM

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Lab ID	: L2434679-02	**Date Collected**	: 06/18/24 16:35
Client ID	: MW-6A	**Date Received**	: 06/19/24
Sample Location	: MANORVILLE, NY	**Date Analyzed**	: 06/24/24 13:41
Sample Matrix	: WATER	**Date Extracted**	: 06/24/24
Analytical Method	: 1,8270E-SIM	**Dilution Factor**	: 1
Lab File ID	: 34679-02	**Analyst**	: JJW
Sample Amount	: 275 ml	**Instrument ID**	: SV128
Extraction Method	: EPA 3510C	**GC Column**	: RXI-5SilM
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
83-32-9	Acenaphthene	ND	0.10	0.01	U
91-58-7	2-Chloronaphthalene	ND	0.20	0.02	U
206-44-0	Fluoranthene	ND	0.10	0.02	U
87-68-3	Hexachlorobutadiene	ND	0.50	0.05	U
91-20-3	Naphthalene	ND	0.10	0.05	U
56-55-3	Benzo(a)anthracene	ND	0.10	0.02	U
50-32-8	Benzo(a)pyrene	ND	0.10	0.02	U
205-99-2	Benzo(b)fluoranthene	ND	0.10	0.01	U
207-08-9	Benzo(k)fluoranthene	ND	0.10	0.01	U
218-01-9	Chrysene	ND	0.10	0.01	U
208-96-8	Acenaphthylene	ND	0.10	0.01	U
120-12-7	Anthracene	ND	0.10	0.01	U
191-24-2	Benzo(ghi)perylene	ND	0.10	0.01	U
86-73-7	Fluorene	ND	0.10	0.01	U
85-01-8	Phenanthrene	ND	0.10	0.02	U
53-70-3	Dibenzo(a,h)anthracene	ND	0.10	0.01	U
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.10	0.01	U
129-00-0	Pyrene	ND	0.10	0.02	U
91-57-6	2-Methylnaphthalene	ND	0.10	0.02	U
87-86-5	Pentachlorophenol	ND	0.80	0.01	U
118-74-1	Hexachlorobenzene	ND	0.80	0.01	U
67-72-1	Hexachloroethane	ND	0.80	0.06	U

Results Summary
Form 1
Semivolatile Organics by GC/MS-SIM

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Lab ID	: L2434679-03	**Date Collected**	: 06/18/24 14:50
Client ID	: MW-6B	**Date Received**	: 06/19/24
Sample Location	: MANORVILLE, NY	**Date Analyzed**	: 06/24/24 12:51
Sample Matrix	: WATER	**Date Extracted**	: 06/23/24
Analytical Method	: 1,8270E-SIM	**Dilution Factor**	: 1
Lab File ID	: 34679-03	**Analyst**	: JJW
Sample Amount	: 275 ml	**Instrument ID**	: SV128
Extraction Method	: EPA 3510C	**GC Column**	: RXI-5SilM
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
83-32-9	Acenaphthene	ND	0.10	0.01	U
91-58-7	2-Chloronaphthalene	ND	0.20	0.02	U
206-44-0	Fluoranthene	ND	0.10	0.02	U
87-68-3	Hexachlorobutadiene	ND	0.50	0.05	U
91-20-3	Naphthalene	0.12	0.10	0.05	
56-55-3	Benzo(a)anthracene	ND	0.10	0.02	U
50-32-8	Benzo(a)pyrene	ND	0.10	0.02	U
205-99-2	Benzo(b)fluoranthene	ND	0.10	0.01	U
207-08-9	Benzo(k)fluoranthene	ND	0.10	0.01	U
218-01-9	Chrysene	ND	0.10	0.01	U
208-96-8	Acenaphthylene	ND	0.10	0.01	U
120-12-7	Anthracene	ND	0.10	0.01	U
191-24-2	Benzo(ghi)perylene	ND	0.10	0.01	U
86-73-7	Fluorene	ND	0.10	0.01	U
85-01-8	Phenanthrene	0.03	0.10	0.02	J
53-70-3	Dibenzo(a,h)anthracene	ND	0.10	0.01	U
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.10	0.01	U
129-00-0	Pyrene	ND	0.10	0.02	U
91-57-6	2-Methylnaphthalene	ND	0.10	0.02	U
87-86-5	Pentachlorophenol	ND	0.80	0.01	U
118-74-1	Hexachlorobenzene	ND	0.80	0.01	U
67-72-1	Hexachloroethane	ND	0.80	0.06	U

Results Summary
Form 1
Semivolatile Organics by GC/MS-SIM

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Lab ID	: L2434679-04	**Date Collected**	: 06/18/24 14:49
Client ID	: MW-6C	**Date Received**	: 06/19/24
Sample Location	: MANORVILLE, NY	**Date Analyzed**	: 06/24/24 13:58
Sample Matrix	: WATER	**Date Extracted**	: 06/23/24
Analytical Method	: 1,8270E-SIM	**Dilution Factor**	: 1
Lab File ID	: 34679-04	**Analyst**	: JJW
Sample Amount	: 275 ml	**Instrument ID**	: SV128
Extraction Method	: EPA 3510C	**GC Column**	: RXI-5SilM
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
83-32-9	Acenaphthene	ND	0.10	0.01	U
91-58-7	2-Chloronaphthalene	ND	0.20	0.02	U
206-44-0	Fluoranthene	ND	0.10	0.02	U
87-68-3	Hexachlorobutadiene	ND	0.50	0.05	U
91-20-3	Naphthalene	0.07	0.10	0.05	J
56-55-3	Benzo(a)anthracene	ND	0.10	0.02	U
50-32-8	Benzo(a)pyrene	ND	0.10	0.02	U
205-99-2	Benzo(b)fluoranthene	ND	0.10	0.01	U
207-08-9	Benzo(k)fluoranthene	ND	0.10	0.01	U
218-01-9	Chrysene	ND	0.10	0.01	U
208-96-8	Acenaphthylene	ND	0.10	0.01	U
120-12-7	Anthracene	ND	0.10	0.01	U
191-24-2	Benzo(ghi)perylene	ND	0.10	0.01	U
86-73-7	Fluorene	ND	0.10	0.01	U
85-01-8	Phenanthrene	ND	0.10	0.02	U
53-70-3	Dibenzo(a,h)anthracene	ND	0.10	0.01	U
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.10	0.01	U
129-00-0	Pyrene	ND	0.10	0.02	U
91-57-6	2-Methylnaphthalene	ND	0.10	0.02	U
87-86-5	Pentachlorophenol	ND	0.80	0.01	U
118-74-1	Hexachlorobenzene	ND	0.80	0.01	U
67-72-1	Hexachloroethane	ND	0.80	0.06	U

Results Summary
Form 1
Semivolatile Organics by GC/MS-SIM

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Lab ID	: L2434679-05	**Date Collected**	: 06/18/24 10:15
Client ID	: MW-7A	**Date Received**	: 06/19/24
Sample Location	: MANORVILLE, NY	**Date Analyzed**	: 06/24/24 14:14
Sample Matrix	: WATER	**Date Extracted**	: 06/23/24
Analytical Method	: 1,8270E-SIM	**Dilution Factor**	: 1
Lab File ID	: 34679-05	**Analyst**	: JJW
Sample Amount	: 275 ml	**Instrument ID**	: SV128
Extraction Method	: EPA 3510C	**GC Column**	: RXI-5SilM
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
83-32-9	Acenaphthene	ND	0.10	0.01	U
91-58-7	2-Chloronaphthalene	ND	0.20	0.02	U
206-44-0	Fluoranthene	ND	0.10	0.02	U
87-68-3	Hexachlorobutadiene	ND	0.50	0.05	U
91-20-3	Naphthalene	0.09	0.10	0.05	J
56-55-3	Benzo(a)anthracene	ND	0.10	0.02	U
50-32-8	Benzo(a)pyrene	ND	0.10	0.02	U
205-99-2	Benzo(b)fluoranthene	ND	0.10	0.01	U
207-08-9	Benzo(k)fluoranthene	ND	0.10	0.01	U
218-01-9	Chrysene	ND	0.10	0.01	U
208-96-8	Acenaphthylene	ND	0.10	0.01	U
120-12-7	Anthracene	ND	0.10	0.01	U
191-24-2	Benzo(ghi)perylene	ND	0.10	0.01	U
86-73-7	Fluorene	0.02	0.10	0.01	J
85-01-8	Phenanthrene	0.03	0.10	0.02	J
53-70-3	Dibenzo(a,h)anthracene	ND	0.10	0.01	U
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.10	0.01	U
129-00-0	Pyrene	ND	0.10	0.02	U
91-57-6	2-Methylnaphthalene	ND	0.10	0.02	U
87-86-5	Pentachlorophenol	ND	0.80	0.01	U
118-74-1	Hexachlorobenzene	ND	0.80	0.01	U
67-72-1	Hexachloroethane	ND	0.80	0.06	U

Results Summary
Form 1
Semivolatile Organics by GC/MS-SIM

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Lab ID	: L2434679-06	**Date Collected**	: 06/18/24 12:05
Client ID	: MW-7B	**Date Received**	: 06/19/24
Sample Location	: MANORVILLE, NY	**Date Analyzed**	: 06/24/24 14:31
Sample Matrix	: WATER	**Date Extracted**	: 06/23/24
Analytical Method	: 1,8270E-SIM	**Dilution Factor**	: 1
Lab File ID	: 34679-06	**Analyst**	: JJW
Sample Amount	: 275 ml	**Instrument ID**	: SV128
Extraction Method	: EPA 3510C	**GC Column**	: RXI-5SilM
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
83-32-9	Acenaphthene	ND	0.10	0.01	U
91-58-7	2-Chloronaphthalene	ND	0.20	0.02	U
206-44-0	Fluoranthene	ND	0.10	0.02	U
87-68-3	Hexachlorobutadiene	ND	0.50	0.05	U
91-20-3	Naphthalene	0.06	0.10	0.05	J
56-55-3	Benzo(a)anthracene	ND	0.10	0.02	U
50-32-8	Benzo(a)pyrene	ND	0.10	0.02	U
205-99-2	Benzo(b)fluoranthene	ND	0.10	0.01	U
207-08-9	Benzo(k)fluoranthene	ND	0.10	0.01	U
218-01-9	Chrysene	0.01	0.10	0.01	J
208-96-8	Acenaphthylene	ND	0.10	0.01	U
120-12-7	Anthracene	ND	0.10	0.01	U
191-24-2	Benzo(ghi)perylene	ND	0.10	0.01	U
86-73-7	Fluorene	ND	0.10	0.01	U
85-01-8	Phenanthrene	ND	0.10	0.02	U
53-70-3	Dibenzo(a,h)anthracene	ND	0.10	0.01	U
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.10	0.01	U
129-00-0	Pyrene	ND	0.10	0.02	U
91-57-6	2-Methylnaphthalene	ND	0.10	0.02	U
87-86-5	Pentachlorophenol	ND	0.80	0.01	U
118-74-1	Hexachlorobenzene	ND	0.80	0.01	U
67-72-1	Hexachloroethane	ND	0.80	0.06	U

Results Summary
Form 1
Semivolatile Organics by GC/MS-SIM

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Lab ID	: L2434679-07	**Date Collected**	: 06/18/24 12:12
Client ID	: MW-7C	**Date Received**	: 06/19/24
Sample Location	: MANORVILLE, NY	**Date Analyzed**	: 06/24/24 14:48
Sample Matrix	: WATER	**Date Extracted**	: 06/23/24
Analytical Method	: 1,8270E-SIM	**Dilution Factor**	: 1
Lab File ID	: 34679-07	**Analyst**	: JJW
Sample Amount	: 275 ml	**Instrument ID**	: SV128
Extraction Method	: EPA 3510C	**GC Column**	: RXI-5SilM
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
83-32-9	Acenaphthene	ND	0.10	0.01	U
91-58-7	2-Chloronaphthalene	ND	0.20	0.02	U
206-44-0	Fluoranthene	ND	0.10	0.02	U
87-68-3	Hexachlorobutadiene	ND	0.50	0.05	U
91-20-3	Naphthalene	ND	0.10	0.05	U
56-55-3	Benzo(a)anthracene	0.02	0.10	0.02	J
50-32-8	Benzo(a)pyrene	ND	0.10	0.02	U
205-99-2	Benzo(b)fluoranthene	ND	0.10	0.01	U
207-08-9	Benzo(k)fluoranthene	ND	0.10	0.01	U
218-01-9	Chrysene	ND	0.10	0.01	U
208-96-8	Acenaphthylene	ND	0.10	0.01	U
120-12-7	Anthracene	ND	0.10	0.01	U
191-24-2	Benzo(ghi)perylene	ND	0.10	0.01	U
86-73-7	Fluorene	ND	0.10	0.01	U
85-01-8	Phenanthrene	ND	0.10	0.02	U
53-70-3	Dibenzo(a,h)anthracene	ND	0.10	0.01	U
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.10	0.01	U
129-00-0	Pyrene	ND	0.10	0.02	U
91-57-6	2-Methylnaphthalene	ND	0.10	0.02	U
87-86-5	Pentachlorophenol	ND	0.80	0.01	U
118-74-1	Hexachlorobenzene	ND	0.80	0.01	U
67-72-1	Hexachloroethane	ND	0.80	0.06	U

Results Summary
Form 1
Semivolatile Organics by GC/MS-SIM

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Lab ID	: L2434679-08	**Date Collected**	: 06/18/24 16:47
Client ID	: MW-8A	**Date Received**	: 06/19/24
Sample Location	: MANORVILLE, NY	**Date Analyzed**	: 06/24/24 15:04
Sample Matrix	: WATER	**Date Extracted**	: 06/23/24
Analytical Method	: 1,8270E-SIM	**Dilution Factor**	: 1
Lab File ID	: 34679-08	**Analyst**	: JJW
Sample Amount	: 275 ml	**Instrument ID**	: SV128
Extraction Method	: EPA 3510C	**GC Column**	: RXI-5SilM
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
83-32-9	Acenaphthene	ND	0.10	0.01	U
91-58-7	2-Chloronaphthalene	ND	0.20	0.02	U
206-44-0	Fluoranthene	ND	0.10	0.02	U
87-68-3	Hexachlorobutadiene	ND	0.50	0.05	U
91-20-3	Naphthalene	ND	0.10	0.05	U
56-55-3	Benzo(a)anthracene	ND	0.10	0.02	U
50-32-8	Benzo(a)pyrene	ND	0.10	0.02	U
205-99-2	Benzo(b)fluoranthene	ND	0.10	0.01	U
207-08-9	Benzo(k)fluoranthene	ND	0.10	0.01	U
218-01-9	Chrysene	ND	0.10	0.01	U
208-96-8	Acenaphthylene	ND	0.10	0.01	U
120-12-7	Anthracene	ND	0.10	0.01	U
191-24-2	Benzo(ghi)perylene	ND	0.10	0.01	U
86-73-7	Fluorene	ND	0.10	0.01	U
85-01-8	Phenanthrene	ND	0.10	0.02	U
53-70-3	Dibenzo(a,h)anthracene	ND	0.10	0.01	U
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.10	0.01	U
129-00-0	Pyrene	ND	0.10	0.02	U
91-57-6	2-Methylnaphthalene	ND	0.10	0.02	U
87-86-5	Pentachlorophenol	ND	0.80	0.01	U
118-74-1	Hexachlorobenzene	ND	0.80	0.01	U
67-72-1	Hexachloroethane	ND	0.80	0.06	U

Results Summary
Form 1
Semivolatile Organics by GC/MS-SIM

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Lab ID	: L2434679-09	**Date Collected**	: 06/18/24 18:25
Client ID	: MW-8B	**Date Received**	: 06/19/24
Sample Location	: MANORVILLE, NY	**Date Analyzed**	: 06/24/24 15:21
Sample Matrix	: WATER	**Date Extracted**	: 06/23/24
Analytical Method	: 1,8270E-SIM	**Dilution Factor**	: 1
Lab File ID	: 34679-09	**Analyst**	: JJW
Sample Amount	: 275 ml	**Instrument ID**	: SV128
Extraction Method	: EPA 3510C	**GC Column**	: RXI-5SilM
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
83-32-9	Acenaphthene	ND	0.10	0.01	U
91-58-7	2-Chloronaphthalene	ND	0.20	0.02	U
206-44-0	Fluoranthene	ND	0.10	0.02	U
87-68-3	Hexachlorobutadiene	ND	0.50	0.05	U
91-20-3	Naphthalene	0.05	0.10	0.05	J
56-55-3	Benzo(a)anthracene	ND	0.10	0.02	U
50-32-8	Benzo(a)pyrene	ND	0.10	0.02	U
205-99-2	Benzo(b)fluoranthene	ND	0.10	0.01	U
207-08-9	Benzo(k)fluoranthene	ND	0.10	0.01	U
218-01-9	Chrysene	ND	0.10	0.01	U
208-96-8	Acenaphthylene	ND	0.10	0.01	U
120-12-7	Anthracene	ND	0.10	0.01	U
191-24-2	Benzo(ghi)perylene	ND	0.10	0.01	U
86-73-7	Fluorene	ND	0.10	0.01	U
85-01-8	Phenanthrene	ND	0.10	0.02	U
53-70-3	Dibenzo(a,h)anthracene	ND	0.10	0.01	U
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.10	0.01	U
129-00-0	Pyrene	ND	0.10	0.02	U
91-57-6	2-Methylnaphthalene	ND	0.10	0.02	U
87-86-5	Pentachlorophenol	ND	0.80	0.01	U
118-74-1	Hexachlorobenzene	ND	0.80	0.01	U
67-72-1	Hexachloroethane	ND	0.80	0.06	U

Results Summary
Form 1
Semivolatile Organics by GC/MS-SIM

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Lab ID	: L2434679-10	**Date Collected**	: 06/19/24 11:00
Client ID	: MW-9B	**Date Received**	: 06/19/24
Sample Location	: MANORVILLE, NY	**Date Analyzed**	: 06/25/24 12:10
Sample Matrix	: WATER	**Date Extracted**	: 06/24/24
Analytical Method	: 1,8270E-SIM	**Dilution Factor**	: 1
Lab File ID	: 34679-10	**Analyst**	: JJW
Sample Amount	: 275 ml	**Instrument ID**	: SV128
Extraction Method	: EPA 3510C	**GC Column**	: RXI-5SilM
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
83-32-9	Acenaphthene	ND	0.10	0.01	U
91-58-7	2-Chloronaphthalene	ND	0.20	0.02	U
206-44-0	Fluoranthene	ND	0.10	0.02	U
87-68-3	Hexachlorobutadiene	ND	0.50	0.05	U
91-20-3	Naphthalene	ND	0.10	0.05	U
56-55-3	Benzo(a)anthracene	ND	0.10	0.02	U
50-32-8	Benzo(a)pyrene	ND	0.10	0.02	U
205-99-2	Benzo(b)fluoranthene	ND	0.10	0.01	U
207-08-9	Benzo(k)fluoranthene	ND	0.10	0.01	U
218-01-9	Chrysene	ND	0.10	0.01	U
208-96-8	Acenaphthylene	ND	0.10	0.01	U
120-12-7	Anthracene	ND	0.10	0.01	U
191-24-2	Benzo(ghi)perylene	ND	0.10	0.01	U
86-73-7	Fluorene	ND	0.10	0.01	U
85-01-8	Phenanthrene	ND	0.10	0.02	U
53-70-3	Dibenzo(a,h)anthracene	ND	0.10	0.01	U
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.10	0.01	U
129-00-0	Pyrene	ND	0.10	0.02	U
91-57-6	2-Methylnaphthalene	ND	0.10	0.02	U
87-86-5	Pentachlorophenol	ND	0.80	0.01	U
118-74-1	Hexachlorobenzene	ND	0.80	0.01	U
67-72-1	Hexachloroethane	ND	0.80	0.06	U

Results Summary
Form 1
Semivolatile Organics by GC/MS-SIM

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Lab ID	: L2434679-11	**Date Collected**	: 06/18/24 00:00
Client ID	: DUP	**Date Received**	: 06/19/24
Sample Location	: MANORVILLE, NY	**Date Analyzed**	: 06/24/24 15:38
Sample Matrix	: WATER	**Date Extracted**	: 06/23/24
Analytical Method	: 1,8270E-SIM	**Dilution Factor**	: 1
Lab File ID	: 34679-11	**Analyst**	: JJW
Sample Amount	: 275 ml	**Instrument ID**	: SV128
Extraction Method	: EPA 3510C	**GC Column**	: RXI-5SilM
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
83-32-9	Acenaphthene	ND	0.10	0.01	U
91-58-7	2-Chloronaphthalene	ND	0.20	0.02	U
206-44-0	Fluoranthene	ND	0.10	0.02	U
87-68-3	Hexachlorobutadiene	ND	0.50	0.05	U
91-20-3	Naphthalene	ND	0.10	0.05	U
56-55-3	Benzo(a)anthracene	ND	0.10	0.02	U
50-32-8	Benzo(a)pyrene	ND	0.10	0.02	U
205-99-2	Benzo(b)fluoranthene	ND	0.10	0.01	U
207-08-9	Benzo(k)fluoranthene	ND	0.10	0.01	U
218-01-9	Chrysene	ND	0.10	0.01	U
208-96-8	Acenaphthylene	ND	0.10	0.01	U
120-12-7	Anthracene	ND	0.10	0.01	U
191-24-2	Benzo(ghi)perylene	ND	0.10	0.01	U
86-73-7	Fluorene	ND	0.10	0.01	U
85-01-8	Phenanthrene	ND	0.10	0.02	U
53-70-3	Dibenzo(a,h)anthracene	ND	0.10	0.01	U
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.10	0.01	U
129-00-0	Pyrene	ND	0.10	0.02	U
91-57-6	2-Methylnaphthalene	ND	0.10	0.02	U
87-86-5	Pentachlorophenol	ND	0.80	0.01	U
118-74-1	Hexachlorobenzene	ND	0.80	0.01	U
67-72-1	Hexachloroethane	ND	0.80	0.06	U

Results Summary
Form 1
Semivolatile Organics by GC/MS-SIM

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Lab ID	: L2434679-12	**Date Collected**	: 06/18/24 19:00
Client ID	: EB	**Date Received**	: 06/19/24
Sample Location	: MANORVILLE, NY	**Date Analyzed**	: 06/24/24 15:54
Sample Matrix	: WATER	**Date Extracted**	: 06/23/24
Analytical Method	: 1,8270E-SIM	**Dilution Factor**	: 1
Lab File ID	: 34679-12	**Analyst**	: JJW
Sample Amount	: 275 ml	**Instrument ID**	: SV128
Extraction Method	: EPA 3510C	**GC Column**	: RXI-5SilM
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
83-32-9	Acenaphthene	ND	0.10	0.01	U
91-58-7	2-Chloronaphthalene	ND	0.20	0.02	U
206-44-0	Fluoranthene	ND	0.10	0.02	U
87-68-3	Hexachlorobutadiene	ND	0.50	0.05	U
91-20-3	Naphthalene	ND	0.10	0.05	U
56-55-3	Benzo(a)anthracene	ND	0.10	0.02	U
50-32-8	Benzo(a)pyrene	ND	0.10	0.02	U
205-99-2	Benzo(b)fluoranthene	ND	0.10	0.01	U
207-08-9	Benzo(k)fluoranthene	ND	0.10	0.01	U
218-01-9	Chrysene	ND	0.10	0.01	U
208-96-8	Acenaphthylene	ND	0.10	0.01	U
120-12-7	Anthracene	ND	0.10	0.01	U
191-24-2	Benzo(ghi)perylene	ND	0.10	0.01	U
86-73-7	Fluorene	ND	0.10	0.01	U
85-01-8	Phenanthrene	ND	0.10	0.02	U
53-70-3	Dibenzo(a,h)anthracene	ND	0.10	0.01	U
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.10	0.01	U
129-00-0	Pyrene	ND	0.10	0.02	U
91-57-6	2-Methylnaphthalene	ND	0.10	0.02	U
87-86-5	Pentachlorophenol	ND	0.80	0.01	U
118-74-1	Hexachlorobenzene	ND	0.80	0.01	U
67-72-1	Hexachloroethane	ND	0.80	0.06	U

Results Summary
Form 1
Semivolatile Organics by GC/MS-SIM

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Lab ID	: L2434679-14	**Date Collected**	: 06/18/24 18:07
Client ID	: MW-8B2	**Date Received**	: 06/19/24
Sample Location	: MANORVILLE, NY	**Date Analyzed**	: 06/24/24 16:11
Sample Matrix	: WATER	**Date Extracted**	: 06/23/24
Analytical Method	: 1,8270E-SIM	**Dilution Factor**	: 1
Lab File ID	: 34679-14	**Analyst**	: JJW
Sample Amount	: 275 ml	**Instrument ID**	: SV128
Extraction Method	: EPA 3510C	**GC Column**	: RXI-5SilM
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
83-32-9	Acenaphthene	ND	0.10	0.01	U
91-58-7	2-Chloronaphthalene	ND	0.20	0.02	U
206-44-0	Fluoranthene	ND	0.10	0.02	U
87-68-3	Hexachlorobutadiene	ND	0.50	0.05	U
91-20-3	Naphthalene	0.06	0.10	0.05	J
56-55-3	Benzo(a)anthracene	ND	0.10	0.02	U
50-32-8	Benzo(a)pyrene	ND	0.10	0.02	U
205-99-2	Benzo(b)fluoranthene	ND	0.10	0.01	U
207-08-9	Benzo(k)fluoranthene	ND	0.10	0.01	U
218-01-9	Chrysene	ND	0.10	0.01	U
208-96-8	Acenaphthylene	ND	0.10	0.01	U
120-12-7	Anthracene	ND	0.10	0.01	U
191-24-2	Benzo(ghi)perylene	ND	0.10	0.01	U
86-73-7	Fluorene	ND	0.10	0.01	U
85-01-8	Phenanthrene	ND	0.10	0.02	U
53-70-3	Dibenzo(a,h)anthracene	ND	0.10	0.01	U
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.10	0.01	U
129-00-0	Pyrene	ND	0.10	0.02	U
91-57-6	2-Methylnaphthalene	ND	0.10	0.02	U
87-86-5	Pentachlorophenol	ND	0.80	0.01	U
118-74-1	Hexachlorobenzene	ND	0.80	0.01	U
67-72-1	Hexachloroethane	ND	0.80	0.06	U

Results Summary
Form 1
Semivolatile Organics by GC/MS-SIM

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Lab ID	: WG1938280-1	**Date Collected**	: NA
Client ID	: WG1938280-1BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 06/24/24 12:02
Sample Matrix	: WATER	**Date Extracted**	: 06/23/24
Analytical Method	: 1,8270E-SIM	**Dilution Factor**	: 1
Lab File ID	: 938280-1	**Analyst**	: JJW
Sample Amount	: 275 ml	**Instrument ID**	: SV128
Extraction Method	: EPA 3510C	**GC Column**	: RXI-5SilM
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
83-32-9	Acenaphthene	0.02	0.10	0.01	J
91-58-7	2-Chloronaphthalene	ND	0.20	0.02	U
206-44-0	Fluoranthene	ND	0.10	0.02	U
87-68-3	Hexachlorobutadiene	ND	0.50	0.05	U
91-20-3	Naphthalene	0.07	0.10	0.05	J
56-55-3	Benzo(a)anthracene	ND	0.10	0.02	U
50-32-8	Benzo(a)pyrene	ND	0.10	0.02	U
205-99-2	Benzo(b)fluoranthene	ND	0.10	0.01	U
207-08-9	Benzo(k)fluoranthene	0.01	0.10	0.01	J
218-01-9	Chrysene	ND	0.10	0.01	U
208-96-8	Acenaphthylene	ND	0.10	0.01	U
120-12-7	Anthracene	0.02	0.10	0.01	J
191-24-2	Benzo(ghi)perylene	ND	0.10	0.01	U
86-73-7	Fluorene	0.02	0.10	0.01	J
85-01-8	Phenanthrene	0.03	0.10	0.02	J
53-70-3	Dibenzo(a,h)anthracene	ND	0.10	0.01	U
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.10	0.01	U
129-00-0	Pyrene	ND	0.10	0.02	U
91-57-6	2-Methylnaphthalene	0.03	0.10	0.02	J
87-86-5	Pentachlorophenol	ND	0.80	0.01	U
118-74-1	Hexachlorobenzene	0.01	0.80	0.01	J
67-72-1	Hexachloroethane	ND	0.80	0.06	U

Results Summary
Form 1
Semivolatile Organics by GC/MS-SIM

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Lab ID	: WG1938725-1	**Date Collected**	: NA
Client ID	: WG1938725-1BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 06/25/24 10:45
Sample Matrix	: WATER	**Date Extracted**	: 06/24/24
Analytical Method	: 1,8270E-SIM	**Dilution Factor**	: 1
Lab File ID	: 938725-1	**Analyst**	: RP
Sample Amount	: 275 ml	**Instrument ID**	: SV128
Extraction Method	: EPA 3510C	**GC Column**	: RXI-5SilM
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
83-32-9	Acenaphthene	ND	0.10	0.01	U
91-58-7	2-Chloronaphthalene	ND	0.20	0.02	U
206-44-0	Fluoranthene	ND	0.10	0.02	U
87-68-3	Hexachlorobutadiene	ND	0.50	0.05	U
91-20-3	Naphthalene	ND	0.10	0.05	U
56-55-3	Benzo(a)anthracene	ND	0.10	0.02	U
50-32-8	Benzo(a)pyrene	ND	0.10	0.02	U
205-99-2	Benzo(b)fluoranthene	ND	0.10	0.01	U
207-08-9	Benzo(k)fluoranthene	ND	0.10	0.01	U
218-01-9	Chrysene	ND	0.10	0.01	U
208-96-8	Acenaphthylene	ND	0.10	0.01	U
120-12-7	Anthracene	ND	0.10	0.01	U
191-24-2	Benzo(ghi)perylene	ND	0.10	0.01	U
86-73-7	Fluorene	ND	0.10	0.01	U
85-01-8	Phenanthrene	ND	0.10	0.02	U
53-70-3	Dibenzo(a,h)anthracene	ND	0.10	0.01	U
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.10	0.01	U
129-00-0	Pyrene	ND	0.10	0.02	U
91-57-6	2-Methylnaphthalene	ND	0.10	0.02	U
87-86-5	Pentachlorophenol	ND	0.80	0.01	U
118-74-1	Hexachlorobenzene	ND	0.80	0.01	U
67-72-1	Hexachloroethane	ND	0.80	0.06	U

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV128\240624\
Data File : 34679-03.D
Acq On : 24 Jun 2024 12:51 pm
Operator : SV128:jjw
Sample : L2434679-03,32,,jjw
Misc : WG1938533,WG1938280,ical20676
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 27 14:15:11 2024
Quant Method : I:\8270sim\sv128\240624\SIM-LVI_231211_sv128.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 24 11:39:29 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270sim\sv128\240624\ccv0624.D
Sub List : DEFAULT - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.303	152	3963	4000.000	ng/ml	0.00
Standard Area 1 = 4069			Recovery = 97.39%			
8) Naphthalene-d8	2.972	136	13711	4000.000	ng/ml	0.00
Standard Area 1 = 14375			Recovery = 95.38%			
17) Acenaphthene-d10	3.958	164	7588	4000.000	ng/ml	0.00
Standard Area 1 = 8180			Recovery = 92.76%			
22) Phenanthrene-d10	4.805	188	16686	4000.000	ng/ml	# 0.00
Standard Area 1 = 17962			Recovery = 92.90%			
31) Chrysene-d12	6.384	240	15166	4000.000	ng/ml	0.00
Standard Area 1 = 16460			Recovery = 92.14%			
36) Perylene-d12	7.696	264	16640	4000.000	ng/ml	-0.02
Standard Area 1 = 18271			Recovery = 91.07%			
System Monitoring Compounds						
2) 2-Fluorophenol	1.695	112	3502	3509.197	ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 70.18%			
3) Phenol-d6	2.106	99	3579	3068.714	ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 61.37%			
7) Nitrobenzene-d5	2.584	82	2331	2473.139	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 98.93%			
13) 2-Fluorobiphenyl	3.574	172	5603	1926.949	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 77.08%			
21) 2,4,6-Tribromophenol	4.407	330	1501	3958.499	ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 79.17%			
30) 4-Terphenyl-d14	5.727	244	6767	1946.611	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 77.86%			
Target Compounds						Qvalue
6) Hexachloroethane	0.000		0	N.D.		
9) Naphthalene	2.984	128	121M1	34.413	ng/ml	
10) Hexachlorobutadiene	0.000		0	N.D.		
11) 2-Methylnaphthalene	3.367	142	9M6	4.007	ng/ml	
14) 2-Chloronaphthalene	0.000		0	N.D.		
16) Acenaphthylene	0.000		0	N.D.	d	
18) Acenaphthene	0.000		0	N.D.	d	
20) Fluorene	4.270	166	8M3	3.090	ng/ml	
24) Hexachlorobenzene	0.000		0	N.D.	d	
25) Pentachlorophenol	0.000		0	N.D.		

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV128\240624\
Data File : 34679-03.D
Acq On : 24 Jun 2024 12:51 pm
Operator : SV128:jjw
Sample : L2434679-03,32,,jjw
Misc : WG1938533,WG1938280,ical20676
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 27 14:15:11 2024
Quant Method : I:\8270sim\sv128\240624\SIM-LVI_231211_sv128.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 24 11:39:29 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270sim\sv128\240624\ccv0624.D
Sub List : DEFAULT - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
26) Phenanthrene	4.820	178	31M6	6.870	ng/ml	
27) Anthracene	0.000		0	N.D.	d	
28) Fluoranthene	5.506	202	24M1	4.841	ng/ml	
29) Pyrene	5.637	202	18	3.510	ng/ml#	76
32) Benzo[a]anthracene	6.384	228	58M1	4.134	ng/ml	
34) Chrysene	6.403	228	10M3	1.913	ng/ml	
37) Benzo[b]fluoranthene	0.000		0	N.D.	d	
38) Benzo[k]fluoranthene	0.000		0	N.D.	d	
39) Benzo[a]pyrene	0.000		0	N.D.	d	
40) Indeno[1,2,3-cd]pyrene	0.000		0	N.D.	d	
41) Dibenzo[a,h]anthracene	0.000		0	N.D.		
42) Benzo[g,h,i]perylene	0.000		0	N.D.	d	

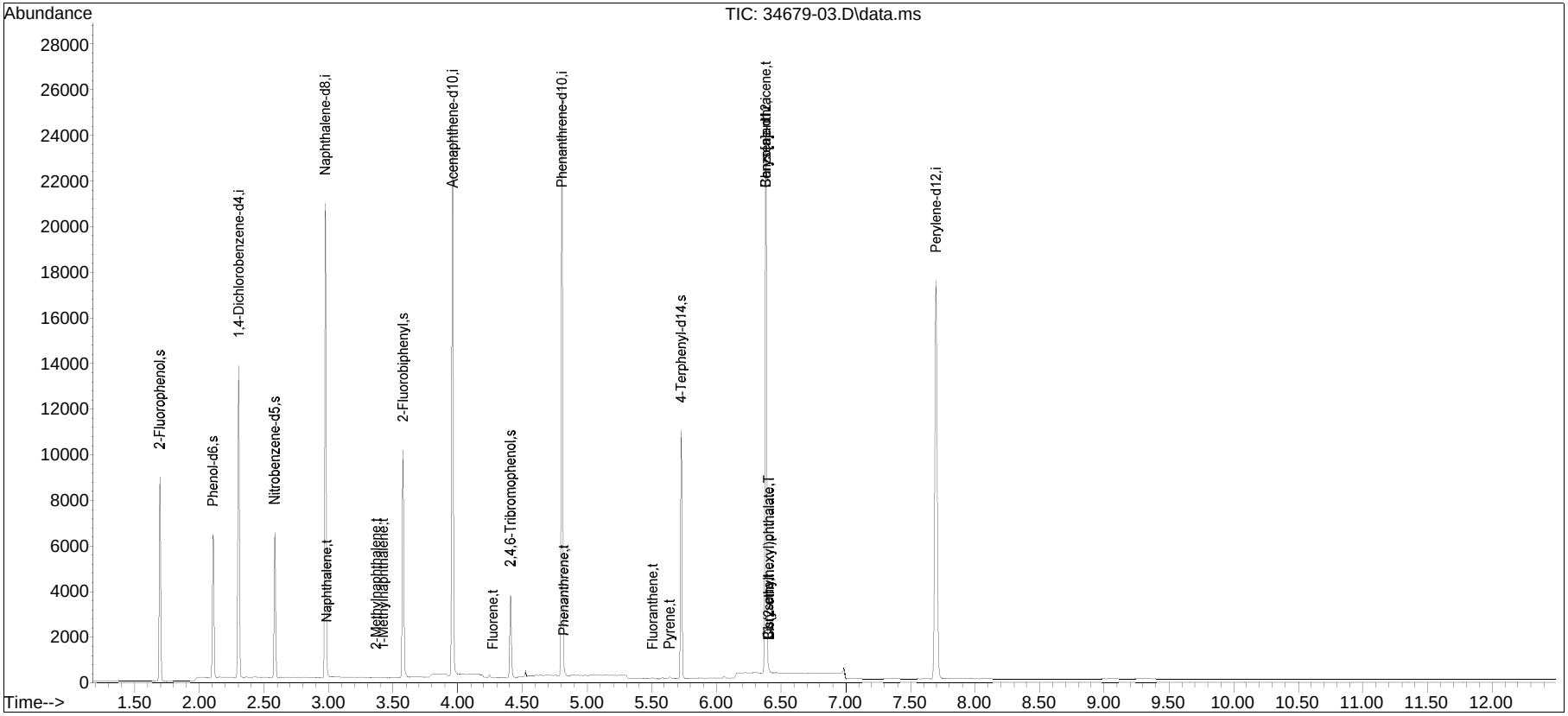
(#) = qualifier out of range (m) = manual integration (+) = signals summed

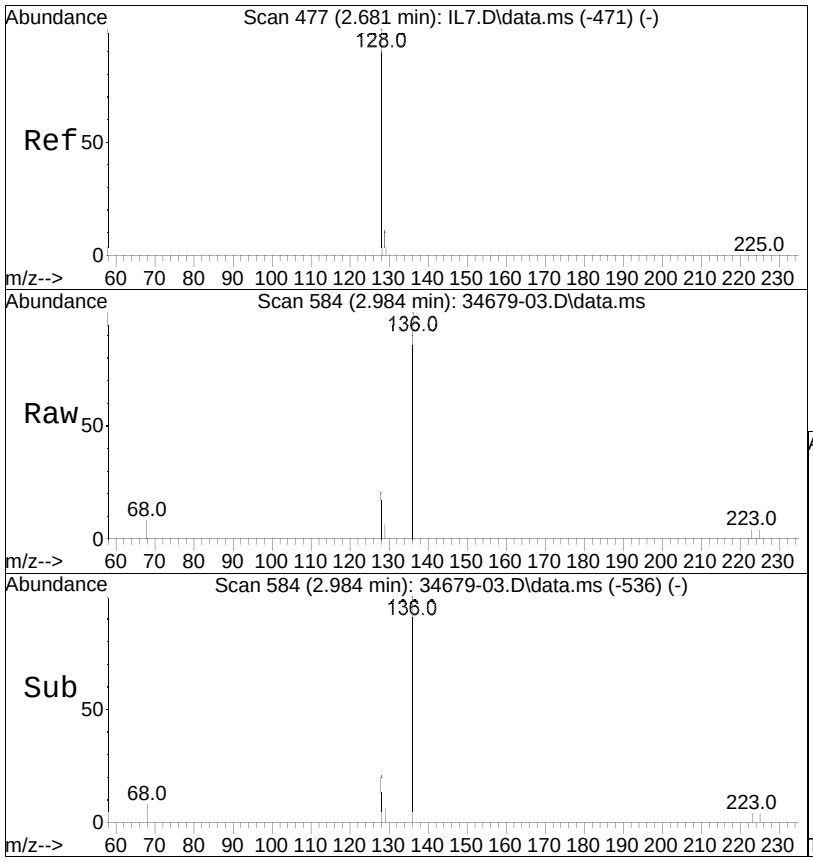
Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV128\240624\
Data File : 34679-03.D
Acq On : 24 Jun 2024 12:51 pm
Operator : SV128:jjw
Sample : L2434679-03,32,,jjw
Misc : WG1938533,WG1938280,ical20676
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 27 14:15:11 2024
Quant Method : I:\8270sim\sv128\240624\SIM-LVI_231211_sv128.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 24 11:39:29 2024
Response via : Initial Calibration

Sub List : DEFAULT - All compounds listedv0624.D•

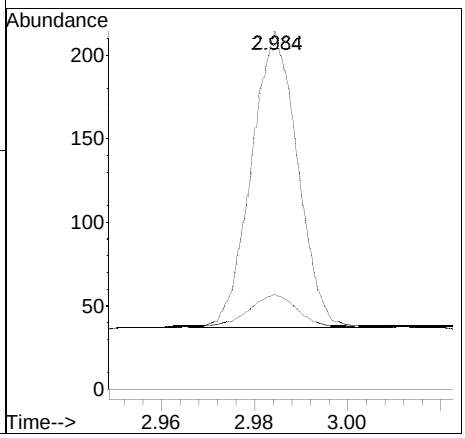


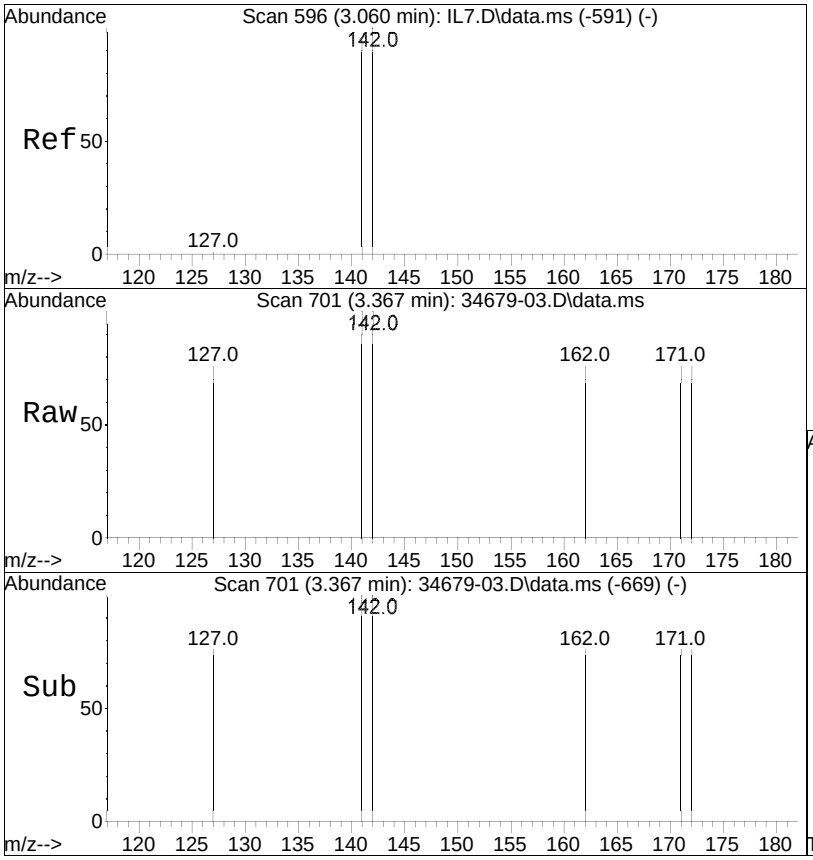


#9
Naphthalene
Concen: 34.41 ng/ml M1
RT: 2.984 min Scan# 584
Delta R.T. -0.003 min
Lab File: 34679-03.D
Acq: 24 Jun 2024 12:51 pm

Tgt Ion:128 Resp: 121

Ion	Ratio	Lower	Upper
128	100		
129	19.0	8.8	13.2#
127	0.0	0.0	0.0

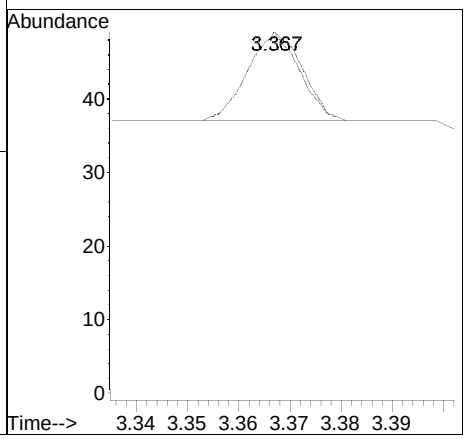


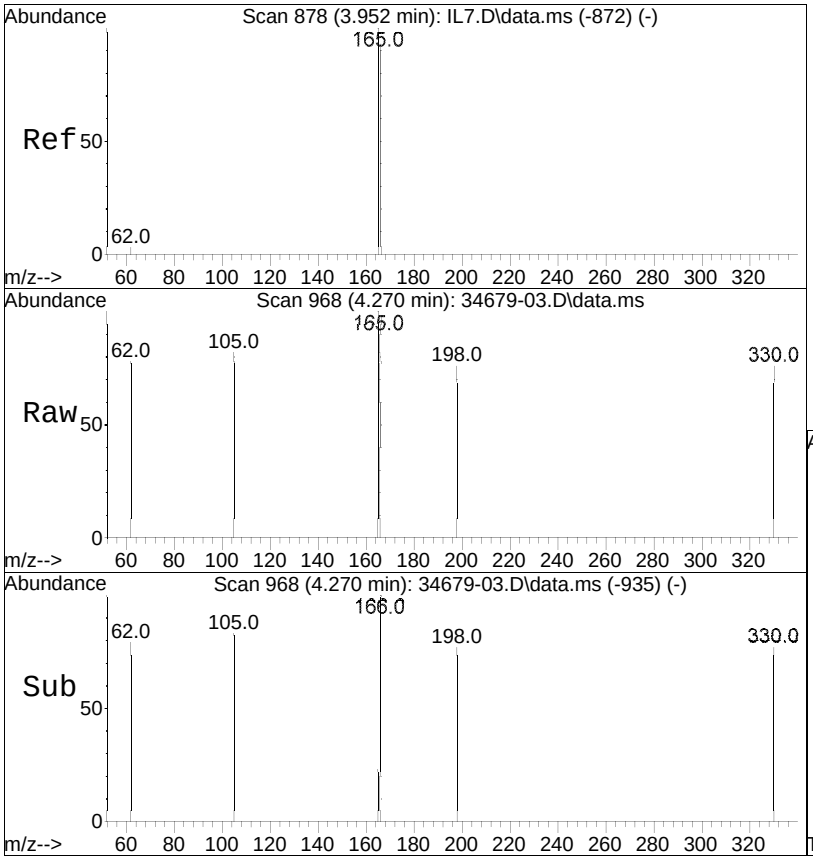


#11
2-Methylnaphthalene
Concen: 4.01 ng/ml M6
RT: 3.367 min Scan# 701
Delta R.T. -0.003 min
Lab File: 34679-03.D
Acq: 24 Jun 2024 12:51 pm

Tgt Ion:142 Resp: 9

Ion	Ratio	Lower	Upper
142	100		
141	88.9	75.9	113.9

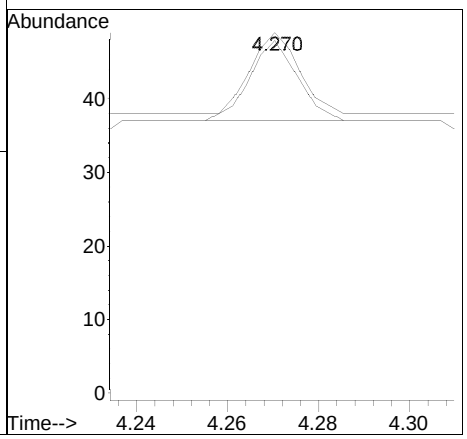


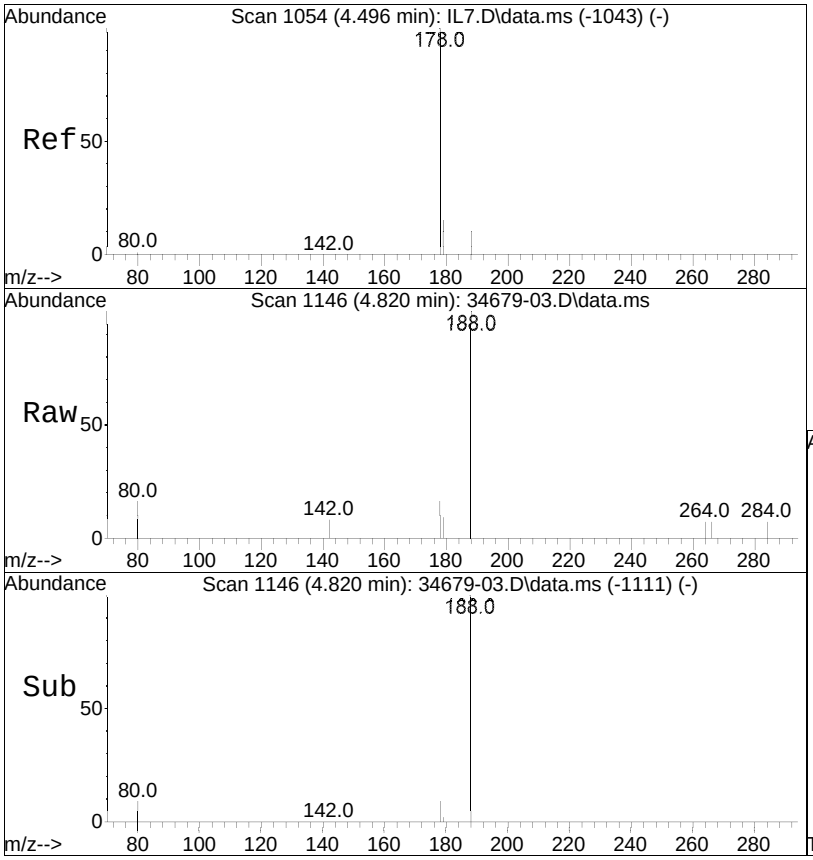


#20
Fluorene
Concen: 3.09 ng/ml M3
RT: 4.270 min Scan# 968
Delta R.T. -0.003 min
Lab File: 34679-03.D
Acq: 24 Jun 2024 12:51 pm

Tgt Ion:166 Resp: 8

Ion	Ratio	Lower	Upper
166	100		
165	100.0	85.7	128.5

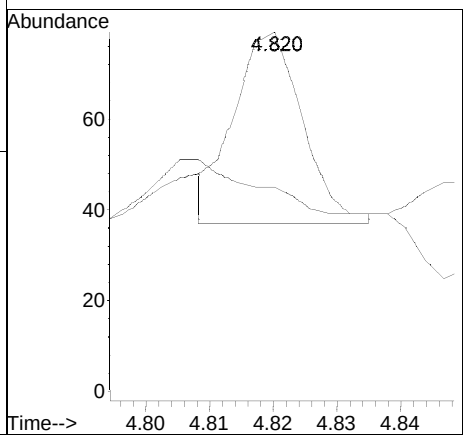


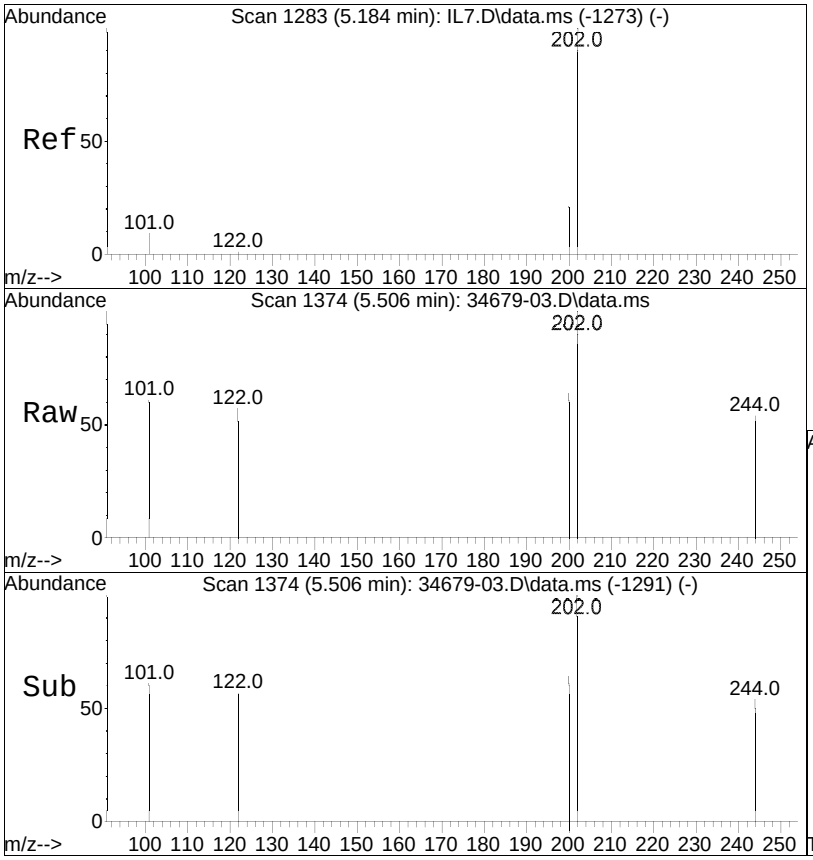


#26
Phenanthrene
Concen: 6.87 ng/ml M6
RT: 4.820 min Scan# 1146
Delta R.T. -0.003 min
Lab File: 34679-03.D
Acq: 24 Jun 2024 12:51 pm

Tgt Ion:178 Resp: 31

Ion	Ratio	Lower	Upper
178	100		
179	16.1	12.2	18.4

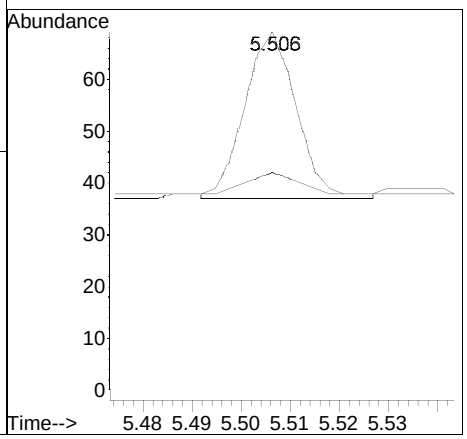


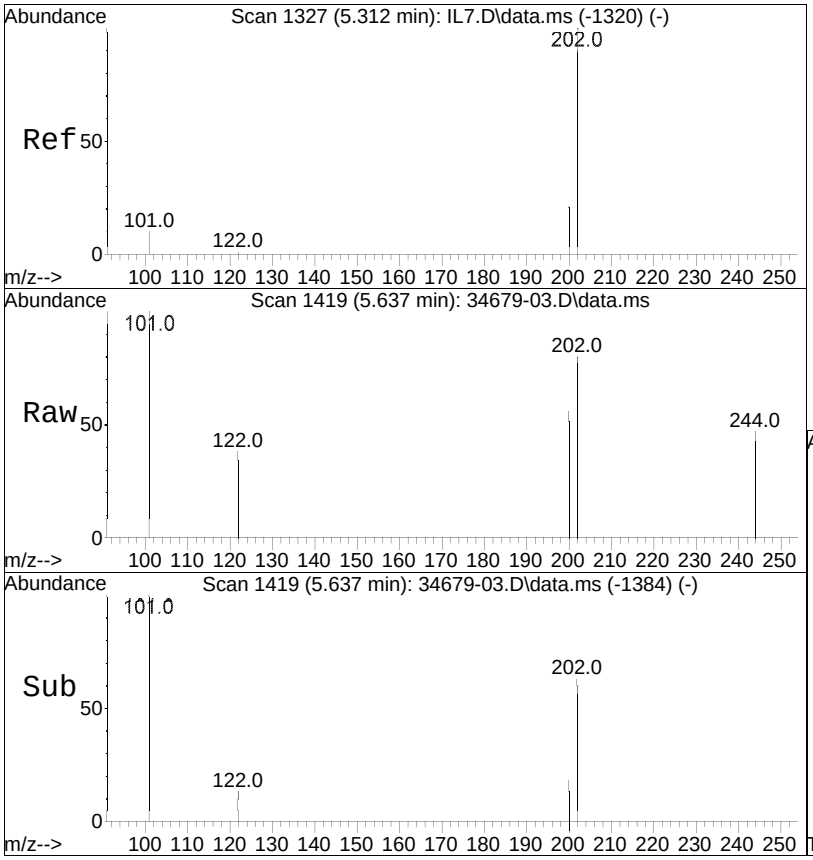


#28
Fluoranthene
Concen: 4.84 ng/ml M1
RT: 5.506 min Scan# 1374
Delta R.T. -0.003 min
Lab File: 34679-03.D
Acq: 24 Jun 2024 12:51 pm

Tgt Ion:202 Resp: 24

Ion	Ratio	Lower	Upper
202	100		
101	12.5	7.2	10.8#

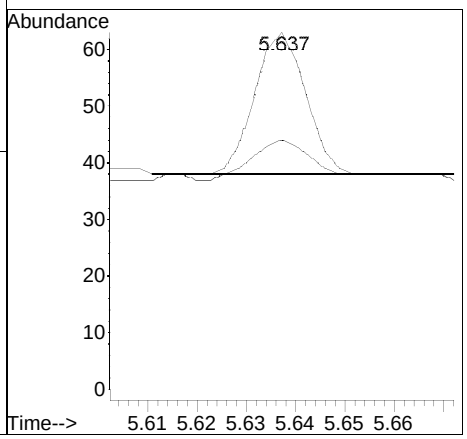


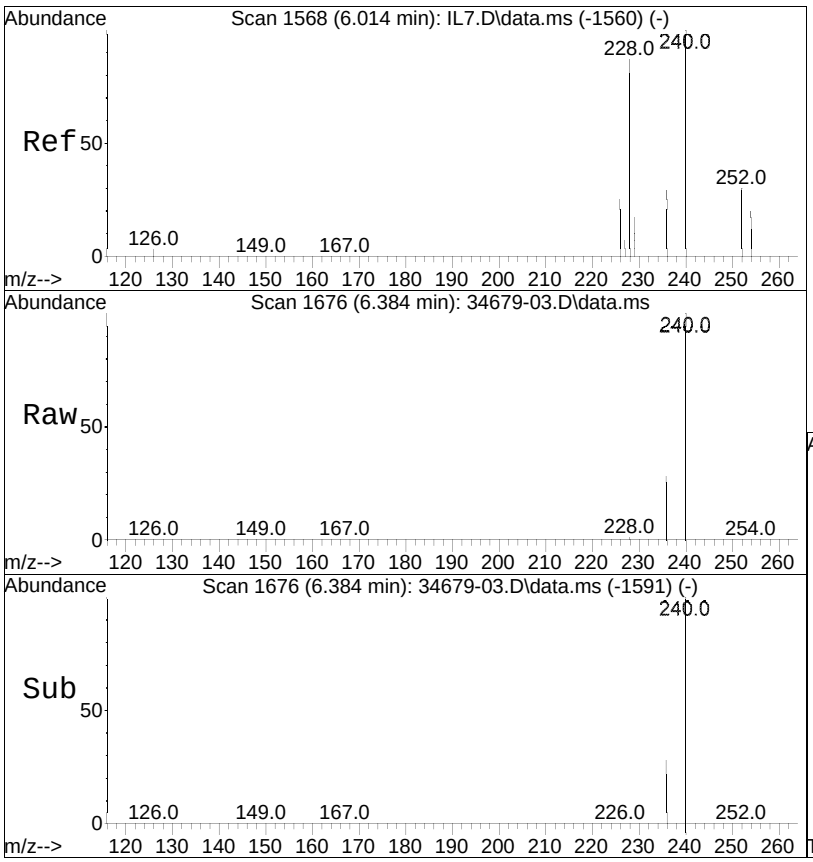


#29
Pyrene
Concen: 3.51 ng/ml
RT: 5.637 min Scan# 1419
Delta R.T. -0.003 min
Lab File: 34679-03.D
Acq: 24 Jun 2024 12:51 pm

Tgt Ion:202 Resp: 18

Ion	Ratio	Lower	Upper
202	100		
200	33.3	17.7	26.5#

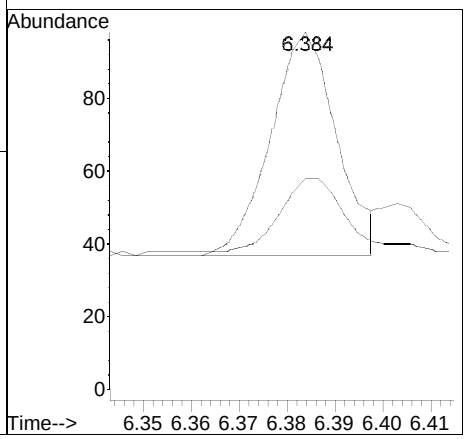


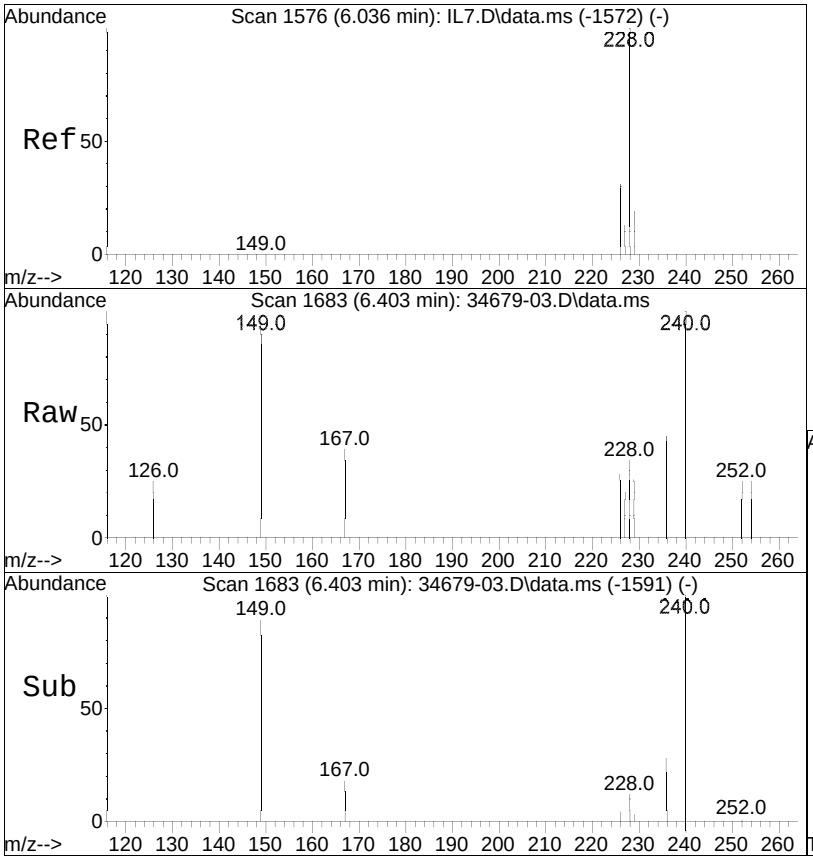


#32
Benzo[a]anthracene
Concen: 4.13 ng/ml M1
RT: 6.384 min Scan# 1676
Delta R.T. -0.002 min
Lab File: 34679-03.D
Acq: 24 Jun 2024 12:51 pm

Tgt Ion:228 Resp: 58

Ion	Ratio	Lower	Upper
228	100		
229	34.5	15.7	23.5#

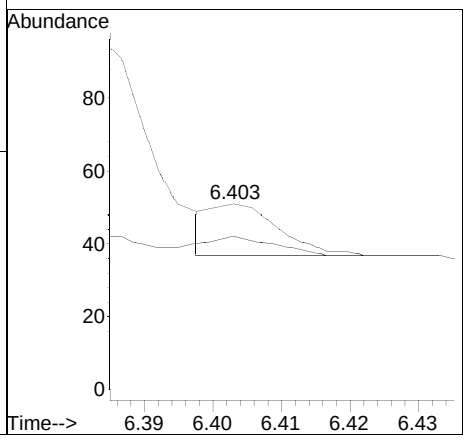




#34
Chrysene
Concen: 1.91 ng/ml M3
RT: 6.403 min Scan# 1683
Delta R.T. -0.008 min
Lab File: 34679-03.D
Acq: 24 Jun 2024 12:51 pm

Tgt Ion:228 Resp: 10

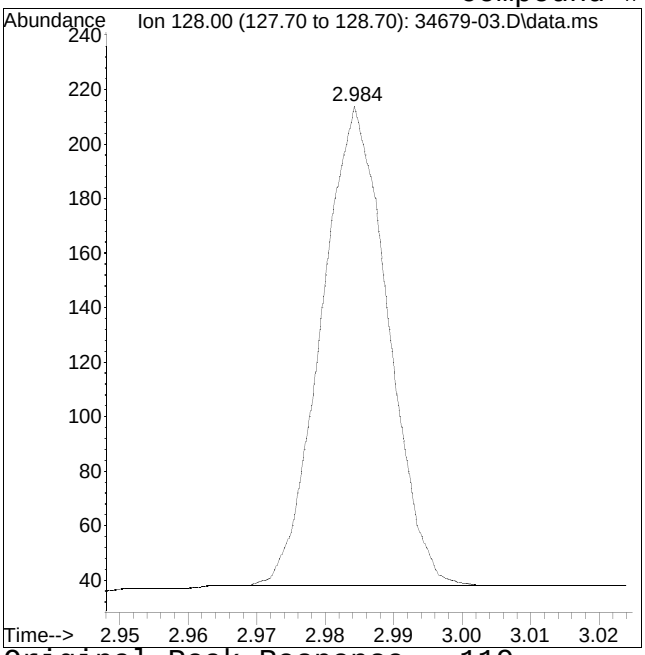
Ion	Ratio	Lower	Upper
228	100		
226	40.0	24.6	36.8#

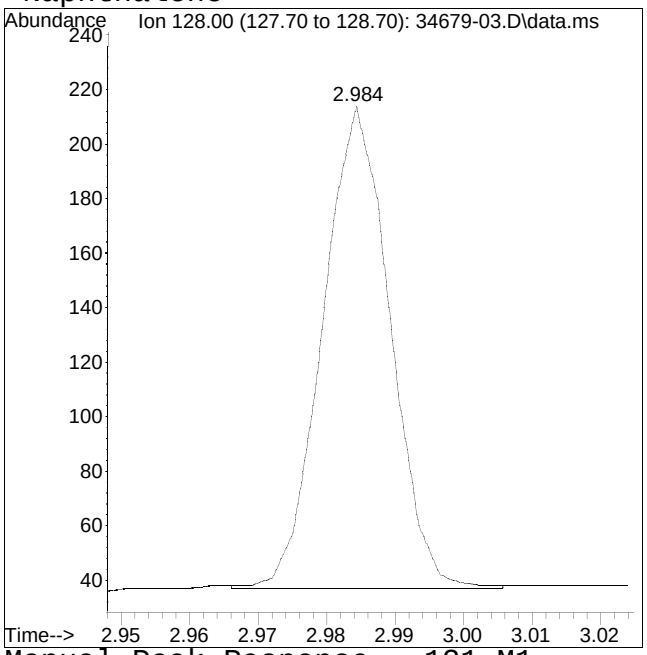


Manual Integration Report

Data Path : I:\8270SIM\SV128\240624\ QMethod : SIM-LVI_231211_sv128.M
Data File : 34679-03.D Operator : SV128:jjw
Date Inj'd : 6/24/2024 12:51 pm Instrument : SV128
Sample : L2434679-03,32,,jjw Quant Date : 6/24/2024 1:11 pm

Compound #9: Naphthalene



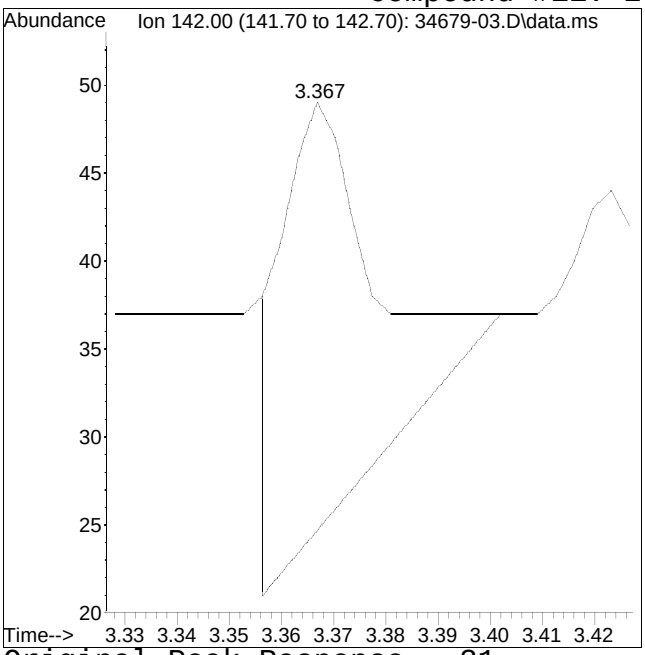


Original Peak Response = 119 Manual Peak Response = 121 M1
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

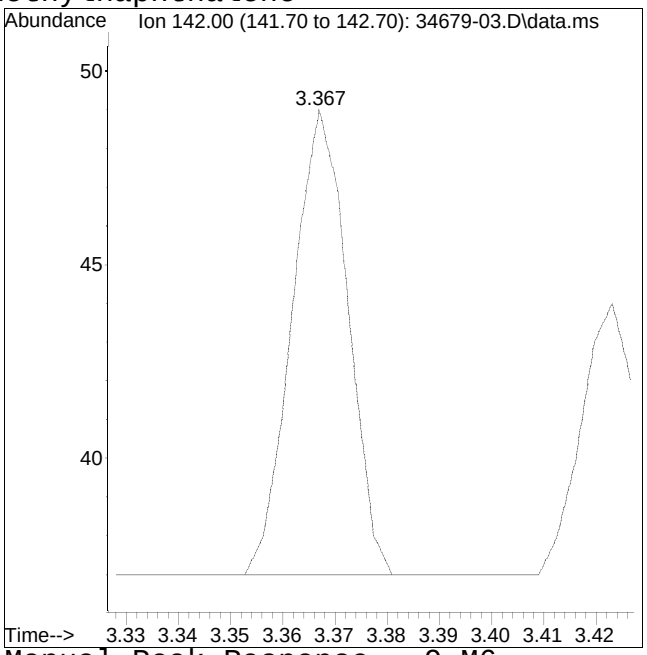
Manual Integration Report

Data Path : I:\8270SIM\SV128\240624\ QMethod : SIM-LVI_231211_sv128.M
Data File : 34679-03.D Operator : SV128:jjw
Date Inj'd : 6/24/2024 12:51 pm Instrument : SV128
Sample : L2434679-03,32,,jjw Quant Date : 6/24/2024 1:11 pm

Compound #11: 2-Methylnaphthalene



Original Peak Response = 31



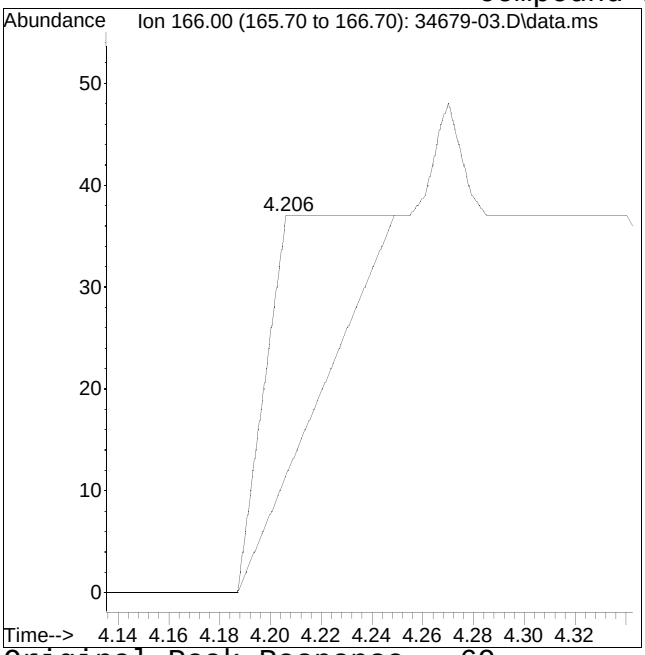
Manual Peak Response = 9 M6

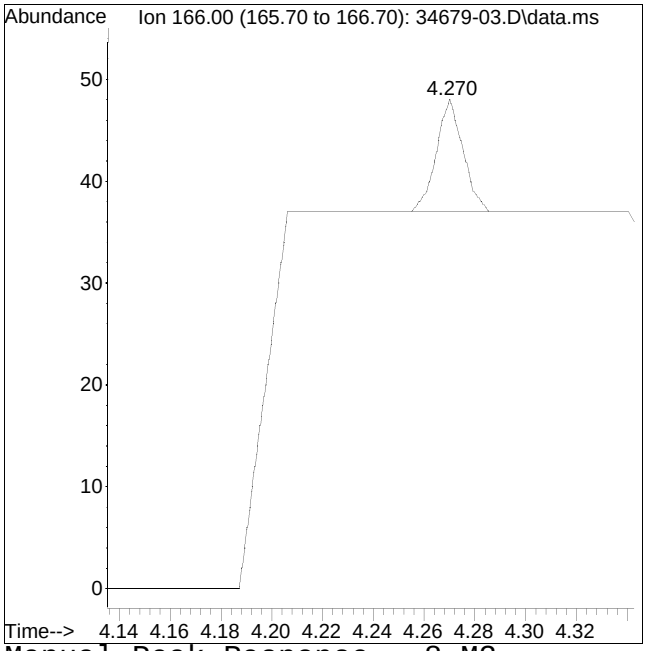
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

Data Path : I:\8270SIM\SV128\240624\ QMethod : SIM-LVI_231211_sv128.M
Data File : 34679-03.D Operator : SV128:jjw
Date Inj'd : 6/24/2024 12:51 pm Instrument : SV128
Sample : L2434679-03,32,,jjw Quant Date : 6/24/2024 1:11 pm

Compound #20: Fluorene





Original Peak Response = 69 Manual Peak Response = 8 M3

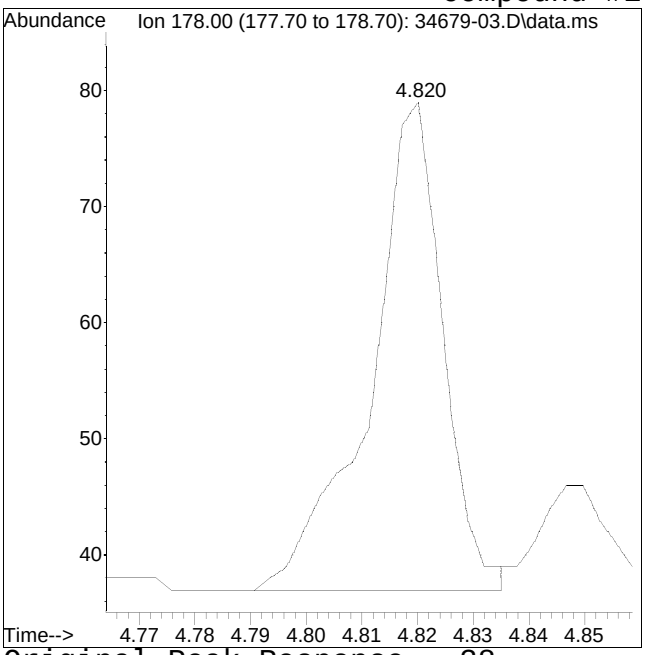
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

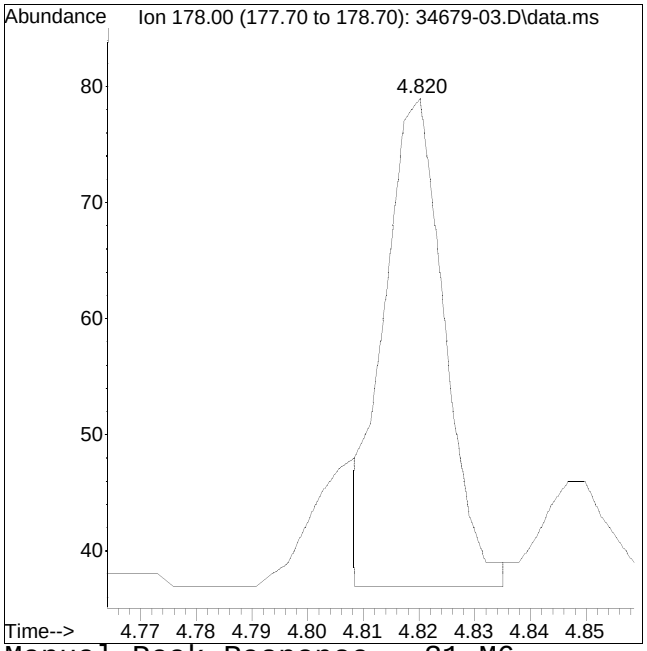
Data Path : I:\8270SIM\SV128\240624\
Data File : 34679-03.D
Date Inj'd : 6/24/2024 12:51 pm
Sample : L2434679-03,32,,jjw

QMethod : SIM-LVI_231211_sv128.M
Operator : SV128:jjw
Instrument : SV128
Quant Date : 6/24/2024 1:11 pm

Compound #26: Phenanthrene



Original Peak Response = 38



Manual Peak Response = 31 M6

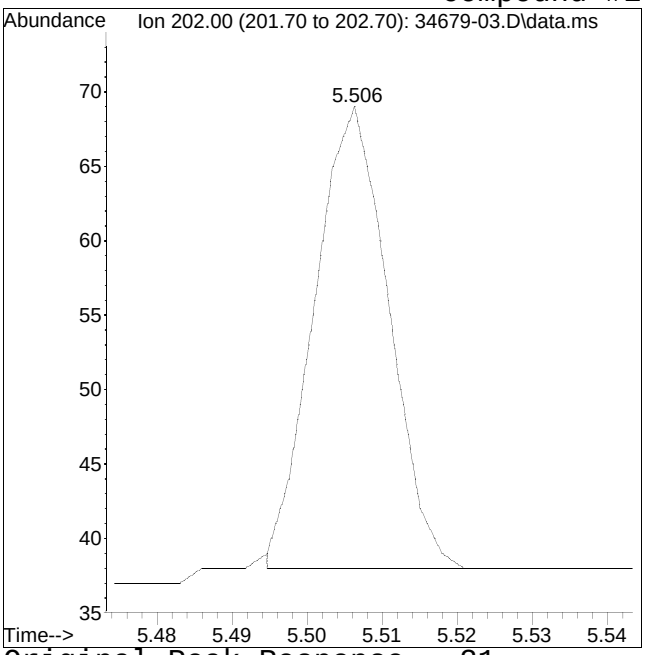
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

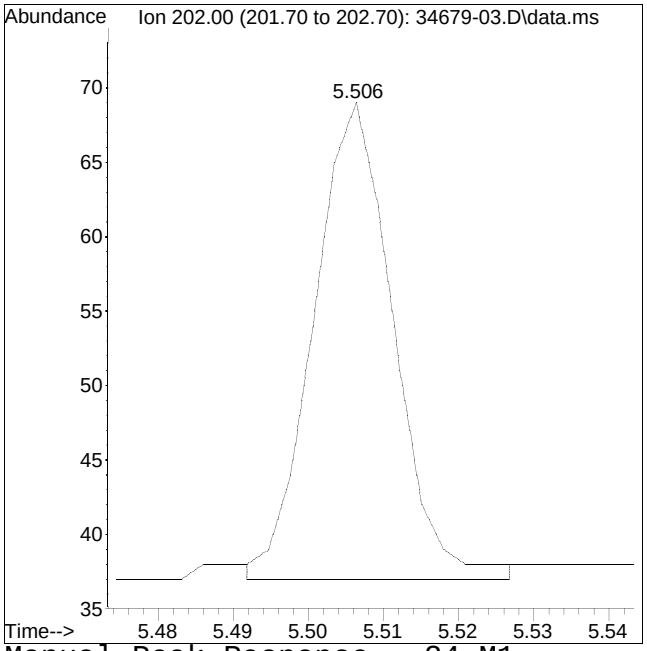
Data Path : I:\8270SIM\SV128\240624\
Data File : 34679-03.D
Date Inj'd : 6/24/2024 12:51 pm
Sample : L2434679-03,32,,jjw

QMethod : SIM-LVI_231211_sv128.M
Operator : SV128:jjw
Instrument : SV128
Quant Date : 6/24/2024 1:11 pm

Compound #28: Fluoranthene



Original Peak Response = 21



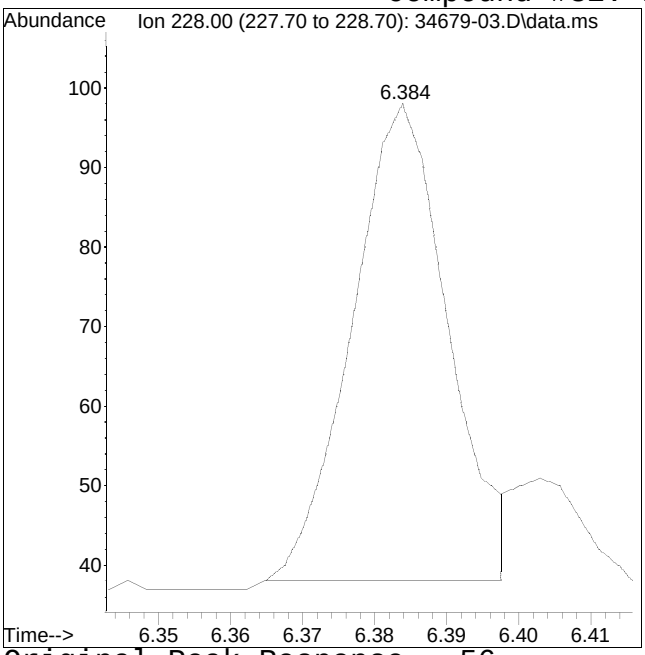
Manual Peak Response = 24 M1

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

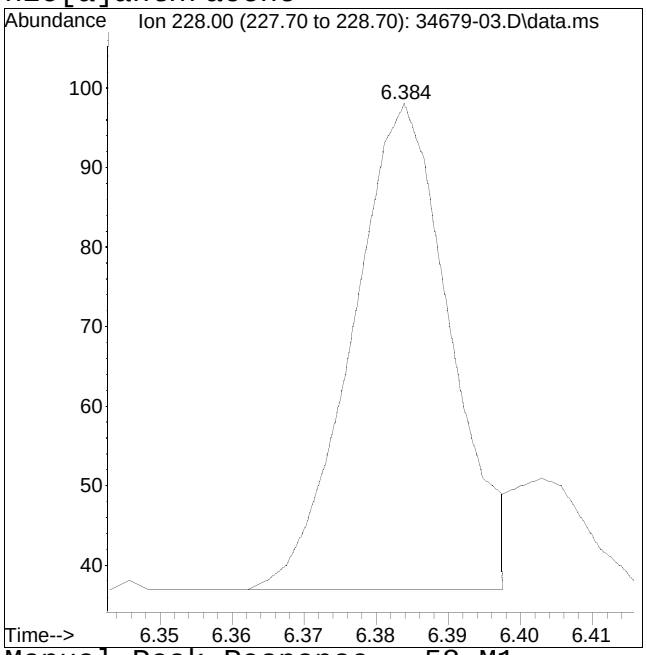
Manual Integration Report

Data Path : I:\8270SIM\SV128\240624\ QMethod : SIM-LVI_231211_sv128.M
Data File : 34679-03.D Operator : SV128:jjw
Date Inj'd : 6/24/2024 12:51 pm Instrument : SV128
Sample : L2434679-03,32,,jjw Quant Date : 6/24/2024 1:11 pm

Compound #32: Benzo[a]anthracene



Original Peak Response = 56



Manual Peak Response = 58 M1

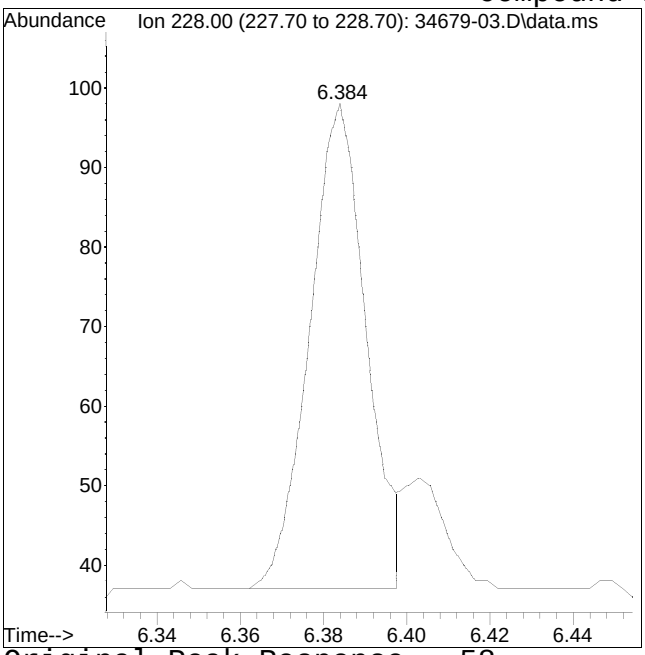
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

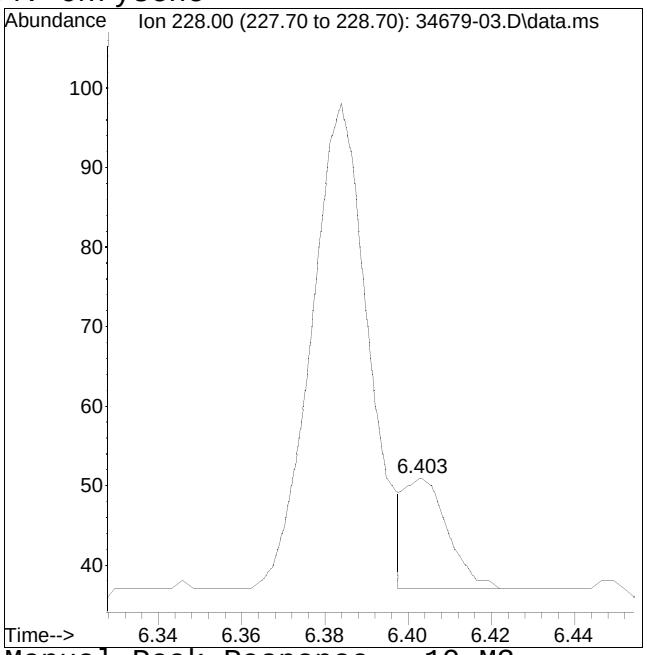
Manual Integration Report

Data Path : I:\8270SIM\SV128\240624\
Data File : 34679-03.D
Date Inj'd : 6/24/2024 12:51 pm
Sample : L2434679-03,32,,jjw

QMethod : SIM-LVI_231211_sv128.M
Operator : SV128:jjw
Instrument : SV128
Quant Date : 6/24/2024 1:11 pm

Compound #34: Chrysene





Original Peak Response = 58 Manual Peak Response = 10 M3

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV128\240624\
Data File : 34679-02.D
Acq On : 24 Jun 2024 01:41 pm
Operator : SV128:jjw
Sample : L2434679-02,32,,jjw
Misc : WG1938533,WG1938280,ical20676
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jun 27 14:13:26 2024
Quant Method : I:\8270sim\sv128\240624\SIM-LVI_231211_sv128.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 24 11:39:29 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270sim\sv128\240624\ccv0624.D
Sub List : DEFAULT - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.304	152	4348	4000.000	ng/ml	0.00
Standard Area 1 = 4069			Recovery = 106.86%			
8) Naphthalene-d8	2.973	136	15171	4000.000	ng/ml	0.00
Standard Area 1 = 14375			Recovery = 105.54%			
17) Acenaphthene-d10	3.959	164	8890	4000.000	ng/ml	0.00
Standard Area 1 = 8180			Recovery = 108.68%			
22) Phenanthrene-d10	4.808	188	20150	4000.000	ng/ml	0.00
Standard Area 1 = 17962			Recovery = 112.18%			
31) Chrysene-d12	6.386	240	18415	4000.000	ng/ml	0.00
Standard Area 1 = 16460			Recovery = 111.88%			
36) Perylene-d12	7.699	264	21381	4000.000	ng/ml	-0.02
Standard Area 1 = 18271			Recovery = 117.02%			
System Monitoring Compounds						
2) 2-Fluorophenol	1.695	112	3143	2870.586	ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 57.41%			
3) Phenol-d6	2.107	99	3333	2604.741	ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 52.09%			
7) Nitrobenzene-d5	2.585	82	1995	1929.228	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 77.17%			
13) 2-Fluorobiphenyl	3.575	172	4851	1507.773	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 60.31%			
21) 2,4,6-Tribromophenol	4.408	330	1358	3056.857	ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 61.14%			
30) 4-Terphenyl-d14	5.727	244	6035	1437.598	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 57.50%			
Target Compounds						Qvalue
6) Hexachloroethane	0.000		0	N.D.		
9) Naphthalene	2.985	128	25M1	6.426	ng/ml	
10) Hexachlorobutadiene	0.000		0	N.D.		
11) 2-Methylnaphthalene	0.000		0	N.D.	d	
14) 2-Chloronaphthalene	0.000		0	N.D.		
16) Acenaphthylene	0.000		0	N.D.		
18) Acenaphthene	0.000		0	N.D.	d	
20) Fluorene	0.000		0	N.D.	d	
24) Hexachlorobenzene	0.000		0	N.D.	d	
25) Pentachlorophenol	0.000		0	N.D.	d	

Data Path : I:\8270SIM\SV128\240624\
Data File : 34679-02.D
Acq On : 24 Jun 2024 01:41 pm
Operator : SV128:jjw
Sample : L2434679-02,32,,jjw
Misc : WG1938533,WG1938280,ical20676
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jun 27 14:13:26 2024
Quant Method : I:\8270sim\sv128\240624\SIM-LVI_231211_sv128.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 24 11:39:29 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270sim\sv128\240624\ccv0624.D
Sub List : DEFAULT - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
26) Phenanthrene	4.820	178	14M6	2.569	ng/ml	
27) Anthracene	4.847	178	4M3	0.760	ng/ml	
28) Fluoranthene	0.000		0	N.D.	d	
29) Pyrene	0.000		0	N.D.	d	
32) Benzo[a]anthracene	0.000		0	N.D.	d	
34) Chrysene	0.000		0	N.D.	d	
37) Benzo[b]fluoranthene	0.000		0	N.D.	d	
38) Benzo[k]fluoranthene	0.000		0	N.D.	d	
39) Benzo[a]pyrene	0.000		0	N.D.	d	
40) Indeno[1,2,3-cd]pyrene	0.000		0	N.D.		
41) Dibenzo[a,h]anthracene	0.000		0	N.D.		
42) Benzo[g,h,i]perylene	0.000		0	N.D.	d	

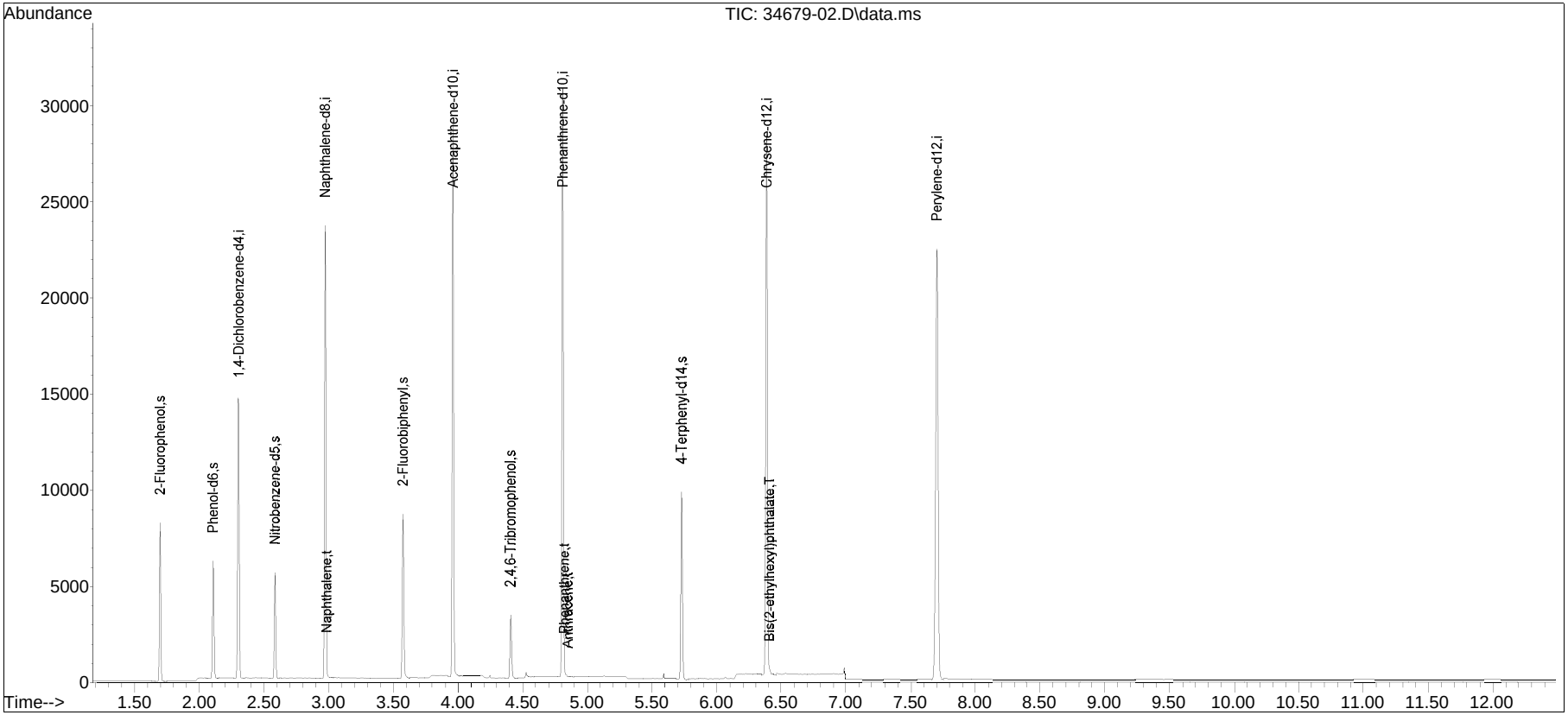
(#) = qualifier out of range (m) = manual integration (+) = signals summed

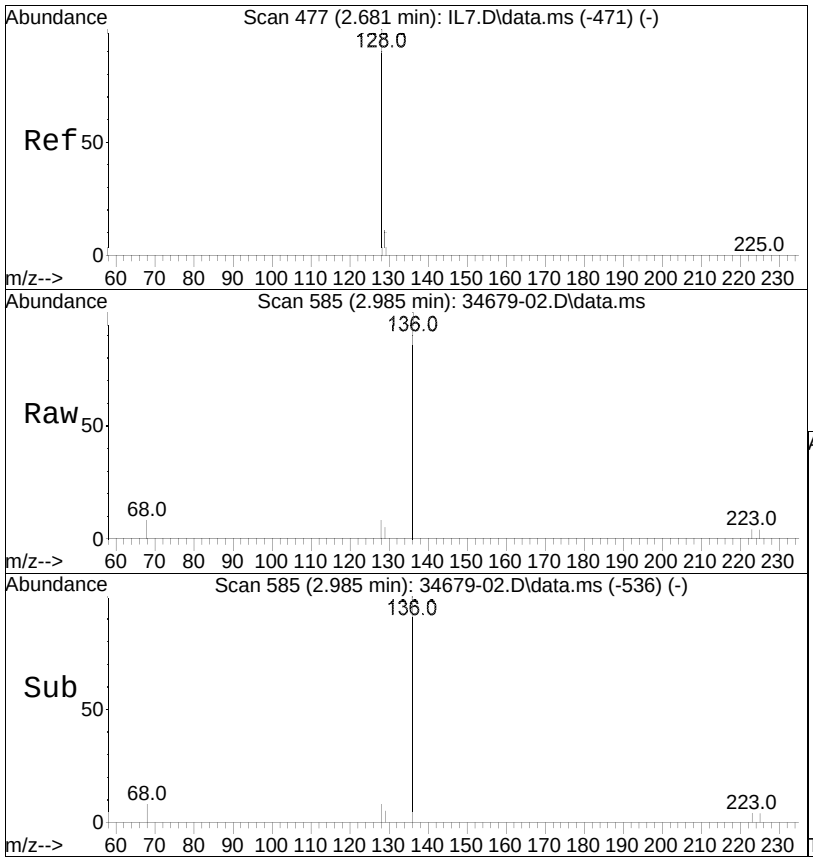
Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV128\240624\
Data File : 34679-02.D
Acq On : 24 Jun 2024 01:41 pm
Operator : SV128:jjw
Sample : L2434679-02,32,,jjw
Misc : WG1938533,WG1938280,ical20676
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jun 27 14:13:26 2024
Quant Method : I:\8270sim\sv128\240624\SIM-LVI_231211_sv128.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 24 11:39:29 2024
Response via : Initial Calibration

Sub List : DEFAULT - All compounds listedv0624.D•

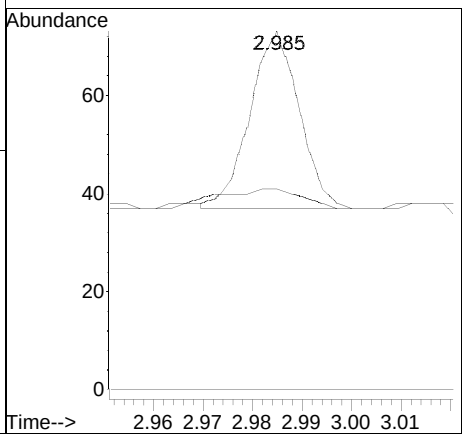


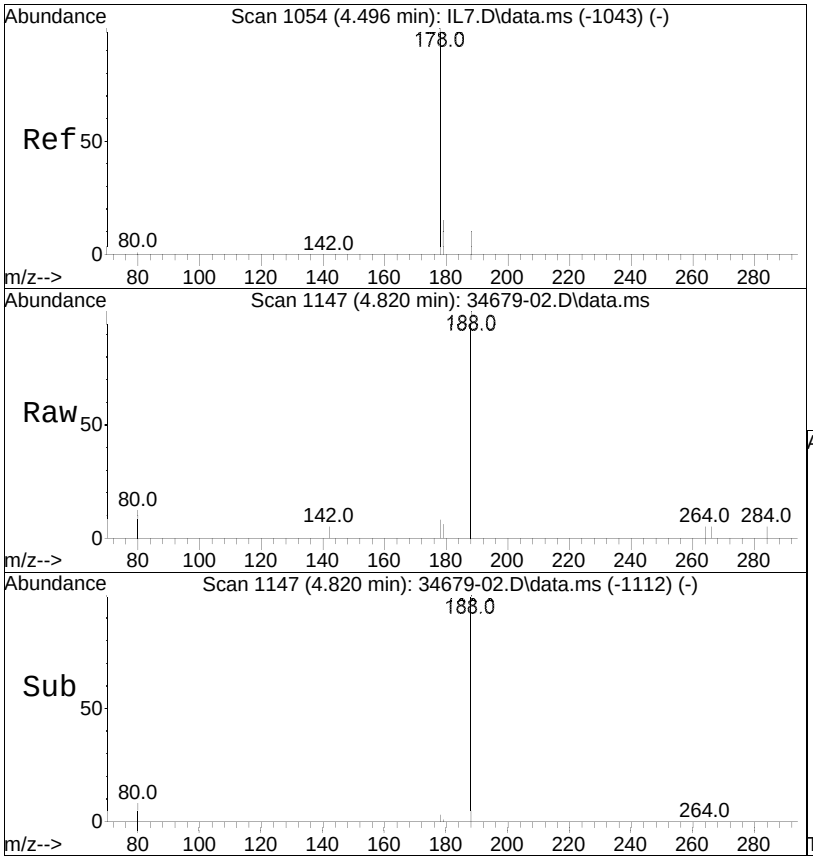


#9
Naphthalene
Concen: 6.43 ng/ml M1
RT: 2.985 min Scan# 585
Delta R.T. -0.002 min
Lab File: 34679-02.D
Acq: 24 Jun 2024 01:41 pm

Tgt Ion:128 Resp: 25

Ion	Ratio	Lower	Upper
128	100		
129	12.0	8.8	13.2
127	0.0	0.0	0.0

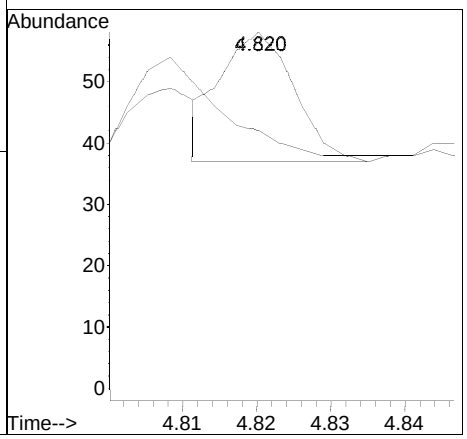


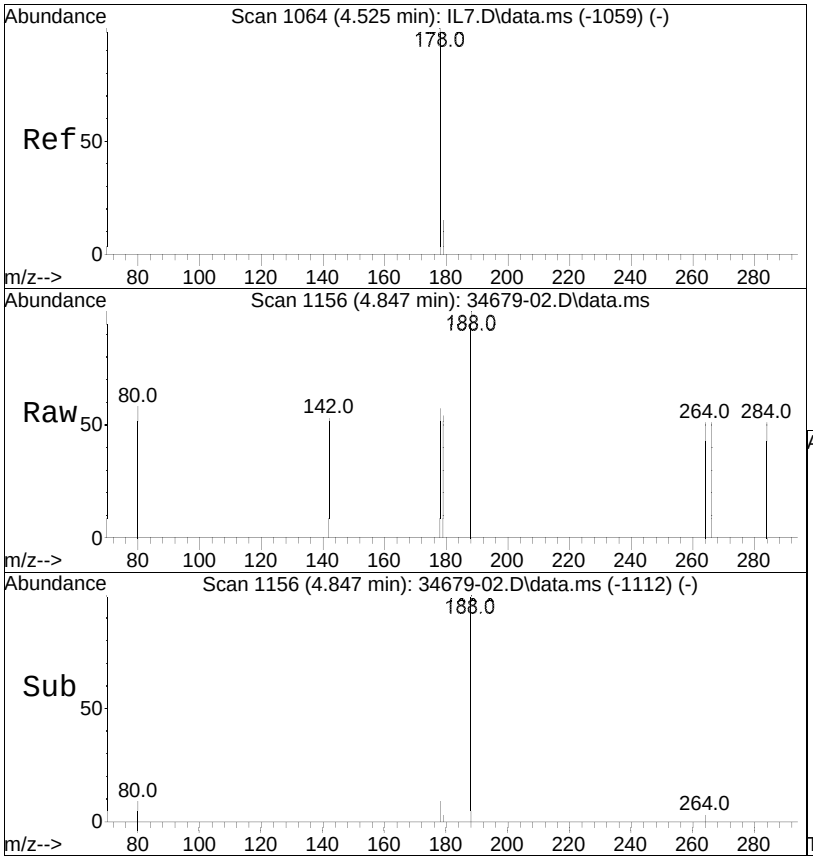


#26
Phenanthrene
Concen: 2.57 ng/ml M6
RT: 4.820 min Scan# 1147
Delta R.T. -0.003 min
Lab File: 34679-02.D
Acq: 24 Jun 2024 01:41 pm

Tgt Ion:178 Resp: 14

Ion	Ratio	Lower	Upper
178	100		
179	14.3	12.2	18.4

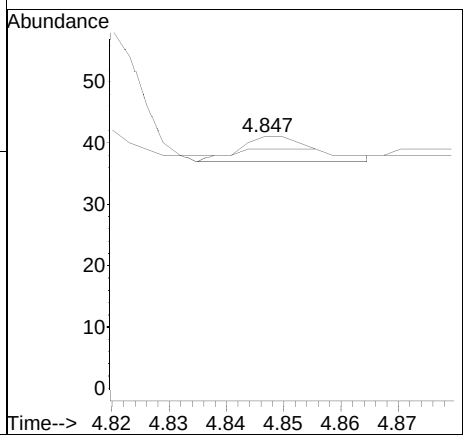




#27
Anthracene
Concen: 0.76 ng/ml M3
RT: 4.847 min Scan# 1156
Delta R.T. -0.006 min
Lab File: 34679-02.D
Acq: 24 Jun 2024 01:41 pm

Tgt Ion:178 Resp: 4

Ion	Ratio	Lower	Upper
178	100		
179	25.0	12.2	18.2#

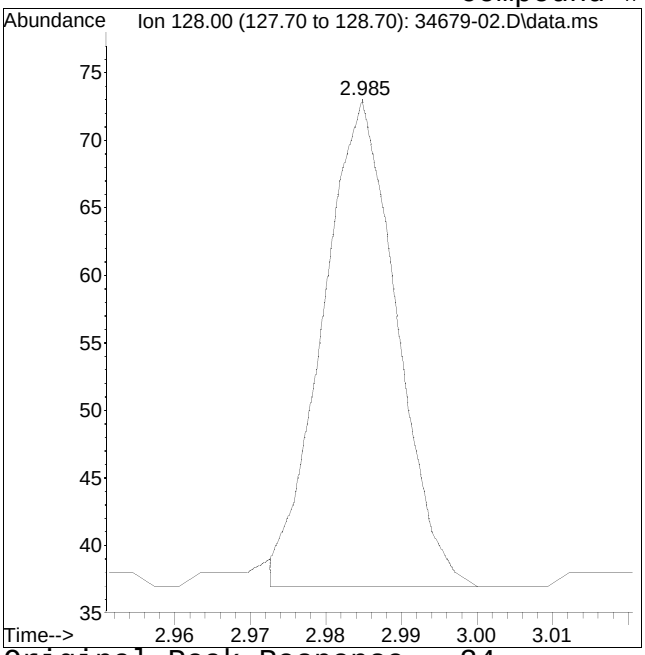


Manual Integration Report

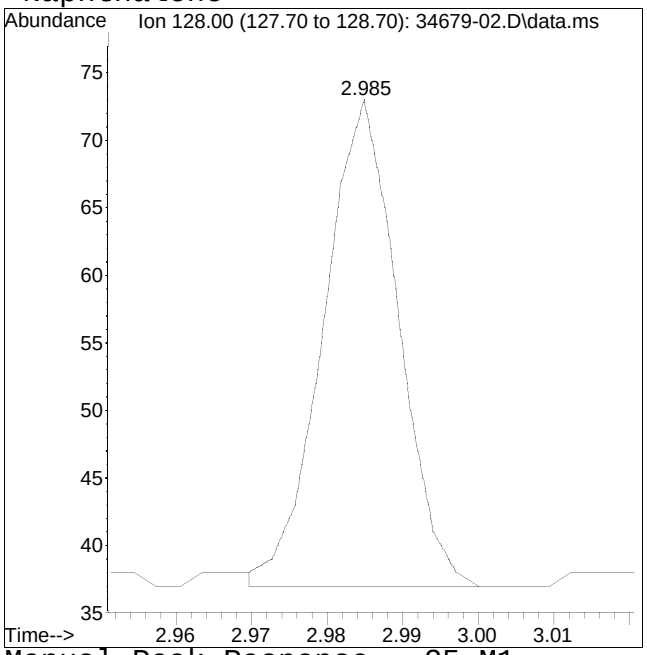
Data Path : I:\8270SIM\SV128\240624\
Data File : 34679-02.D
Date Inj'd : 6/24/2024 1:41 pm
Sample : L2434679-02,32,,jjw

QMethod : SIM-LVI_231211_sv128.M
Operator : SV128:jjw
Instrument : SV128
Quant Date : 6/24/2024 1:54 pm

Compound #9: Naphthalene



Original Peak Response = 24



Manual Peak Response = 25 M1

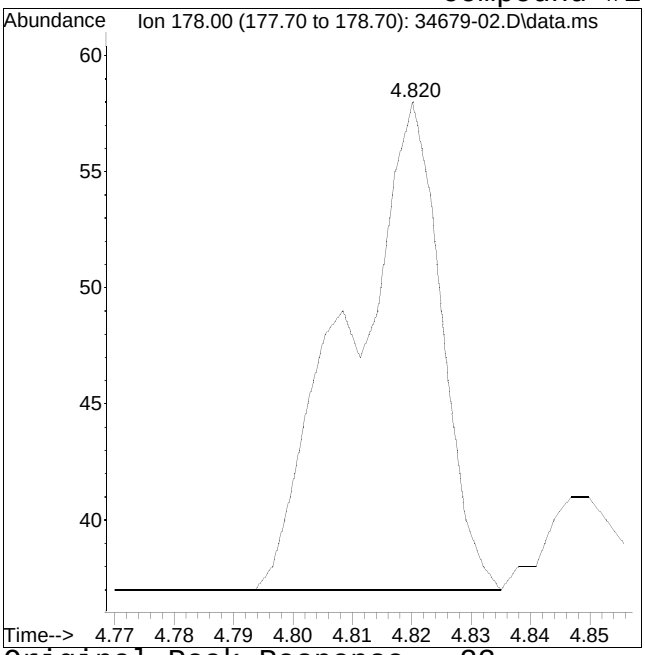
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Manual Integration Report

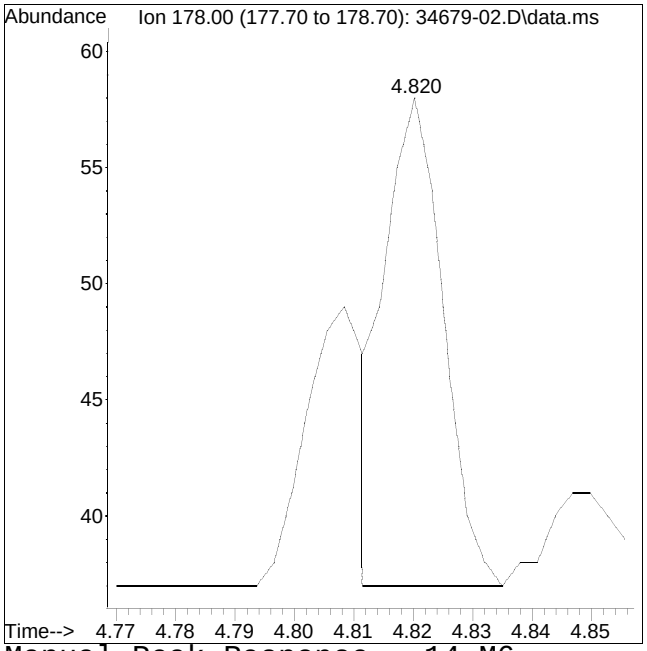
Data Path : I:\8270SIM\SV128\240624\
Data File : 34679-02.D
Date Inj'd : 6/24/2024 1:41 pm
Sample : L2434679-02,32,,jjw

QMethod : SIM-LVI_231211_sv128.M
Operator : SV128:jjw
Instrument : SV128
Quant Date : 6/24/2024 1:54 pm

Compound #26: Phenanthrene



Original Peak Response = 23



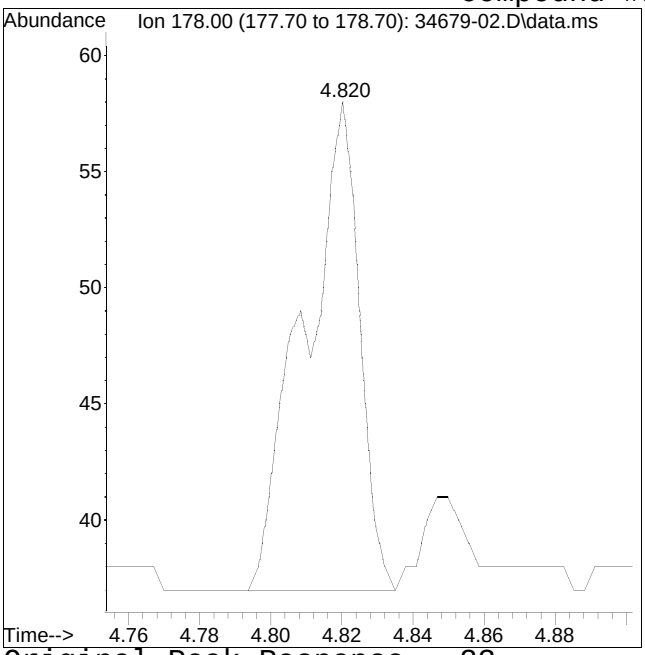
Manual Peak Response = 14 M6

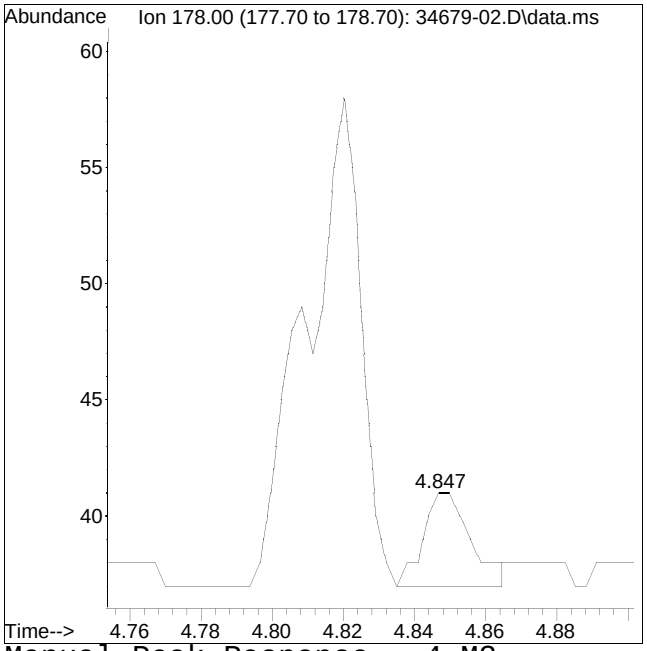
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

Data Path : I:\8270SIM\SV128\240624\ QMethod : SIM-LVI_231211_sv128.M
Data File : 34679-02.D Operator : SV128:jjw
Date Inj'd : 6/24/2024 1:41 pm Instrument : SV128
Sample : L2434679-02,32,,jjw Quant Date : 6/24/2024 1:54 pm

Compound #27: Anthracene





Original Peak Response = 23 Manual Peak Response = 4 M3

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV128\240624\
Data File : 34679-04.D
Acq On : 24 Jun 2024 01:58 pm
Operator : SV128:jjw
Sample : L2434679-04,32,,jjw
Misc : WG1938533,WG1938280,ical20676
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jun 27 14:17:58 2024
Quant Method : I:\8270sim\sv128\240624\SIM-LVI_231211_sv128.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 24 11:39:29 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270sim\sv128\240624\ccv0624.D
Sub List : DEFAULT - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.301	152	3694	4000.000	ng/ml	0.00
Standard Area 1 = 4069			Recovery = 90.78%			
8) Naphthalene-d8	2.974	136	12864	4000.000	ng/ml	0.00
Standard Area 1 = 14375			Recovery = 89.49%			
17) Acenaphthene-d10	3.959	164	7108	4000.000	ng/ml	0.00
Standard Area 1 = 8180			Recovery = 86.89%			
22) Phenanthrene-d10	4.806	188	15469	4000.000	ng/ml	0.00
Standard Area 1 = 17962			Recovery = 86.12%			
31) Chrysene-d12	6.385	240	14025	4000.000	ng/ml	0.00
Standard Area 1 = 16460			Recovery = 85.21%			
36) Perylene-d12	7.694	264	15873	4000.000	ng/ml	-0.02
Standard Area 1 = 18271			Recovery = 86.88%			
System Monitoring Compounds						
2) 2-Fluorophenol	1.695	112	3599	3869.017	ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 77.38%			
3) Phenol-d6	2.108	99	3634	3342.772	ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 66.86%			
7) Nitrobenzene-d5	2.586	82	2343	2666.893	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 106.68%			
13) 2-Fluorobiphenyl	3.573	172	5648	2070.320	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 82.81%			
21) 2,4,6-Tribromophenol	4.408	330	1550	4363.765	ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 87.28%			
30) 4-Terphenyl-d14	5.728	244	6595	2046.387	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 81.86%			
Target Compounds						Qvalue
6) Hexachloroethane	0.000		0	N.D.		
9) Naphthalene	2.983	128	65M7	19.704	ng/ml	
10) Hexachlorobutadiene	0.000		0	N.D.		
11) 2-Methylnaphthalene	3.369	142	8M3	3.796	ng/ml	
14) 2-Chloronaphthalene	0.000		0	N.D.		
16) Acenaphthylene	0.000		0	N.D.		
18) Acenaphthene	0.000		0	N.D.		
20) Fluorene	4.268	166	7M3	2.887	ng/ml	
24) Hexachlorobenzene	0.000		0	N.D.	d	
25) Pentachlorophenol	0.000		0	N.D.		

Data Path : I:\8270SIM\SV128\240624\
Data File : 34679-04.D
Acq On : 24 Jun 2024 01:58 pm
Operator : SV128:jjw
Sample : L2434679-04,32,,jjw
Misc : WG1938533,WG1938280,ical20676
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jun 27 14:17:58 2024
Quant Method : I:\8270sim\sv128\240624\SIM-LVI_231211_sv128.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 24 11:39:29 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270sim\sv128\240624\ccv0624.D
Sub List : DEFAULT - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
26) Phenanthrene	4.821	178	23M6	5.498	ng/ml	
27) Anthracene	0.000		0	N.D.	d	
28) Fluoranthene	5.507	202	10M6	2.176	ng/ml	
29) Pyrene	0.000		0	N.D.	d	
32) Benzo[a]anthracene	0.000		0	N.D.	d	
34) Chrysene	0.000		0	N.D.	d	
37) Benzo[b]fluoranthene	0.000		0	N.D.		
38) Benzo[k]fluoranthene	0.000		0	N.D.		
39) Benzo[a]pyrene	0.000		0	N.D.	d	
40) Indeno[1,2,3-cd]pyrene	0.000		0	N.D.		
41) Dibenzo[a,h]anthracene	0.000		0	N.D.		
42) Benzo[g,h,i]perylene	0.000		0	N.D.		

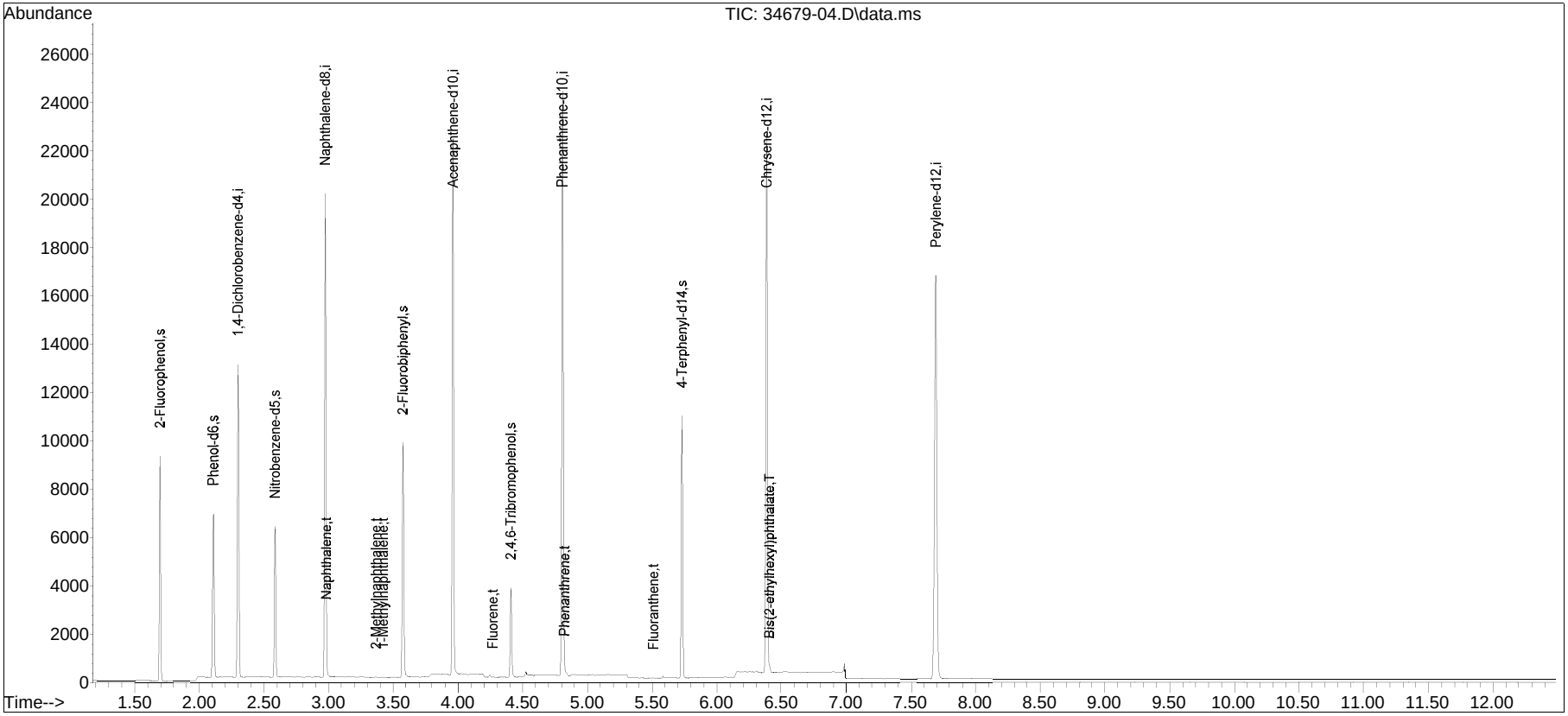
(#) = qualifier out of range (m) = manual integration (+) = signals summed

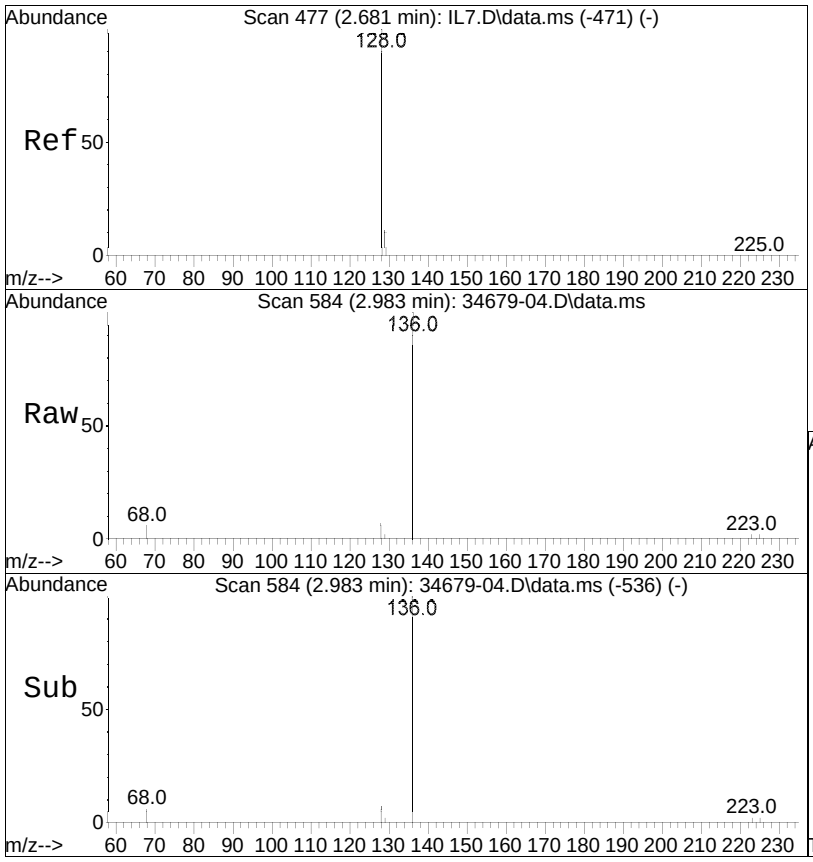
Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV128\240624\
Data File : 34679-04.D
Acq On : 24 Jun 2024 01:58 pm
Operator : SV128:jjw
Sample : L2434679-04,32,,jjw
Misc : WG1938533,WG1938280,ical20676
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jun 27 14:17:58 2024
Quant Method : I:\8270sim\sv128\240624\SIM-LVI_231211_sv128.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 24 11:39:29 2024
Response via : Initial Calibration

Sub List : DEFAULT - All compounds listedv0624.D•

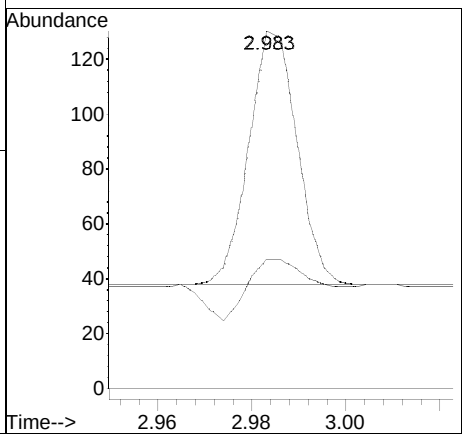


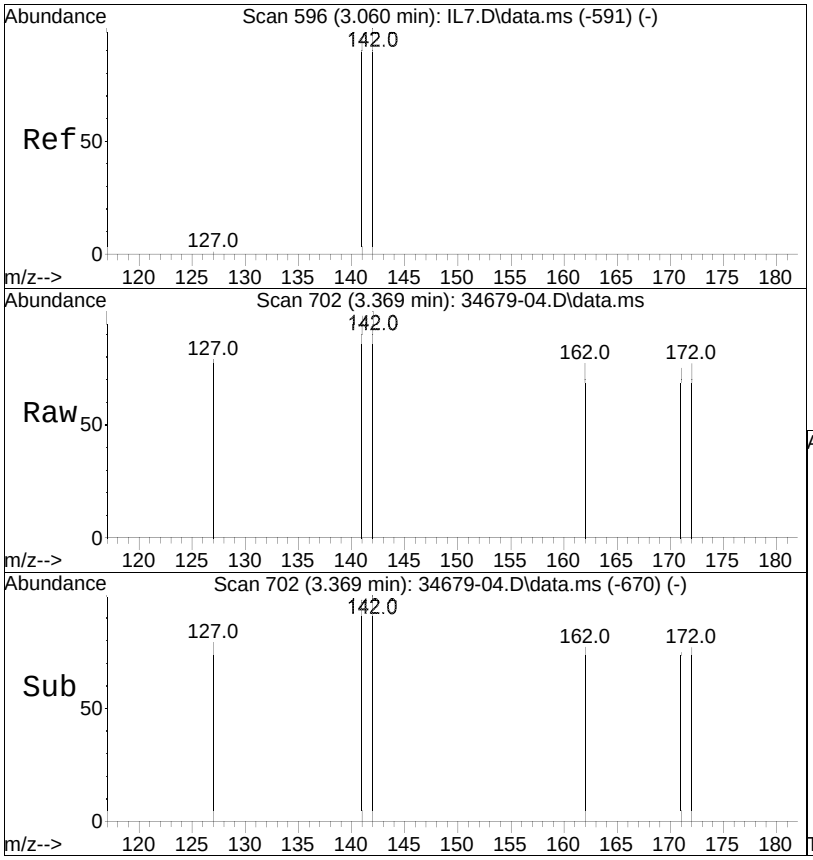


#9
Naphthalene
Concen: 19.70 ng/ml M7
RT: 2.983 min Scan# 584
Delta R.T. -0.004 min
Lab File: 34679-04.D
Acq: 24 Jun 2024 01:58 pm

Tgt Ion:128 Resp: 65

Ion	Ratio	Lower	Upper
128	100		
129	13.8	8.8	13.2#
127	0.0	0.0	0.0

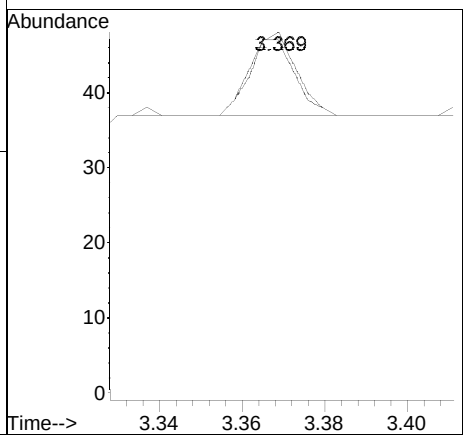


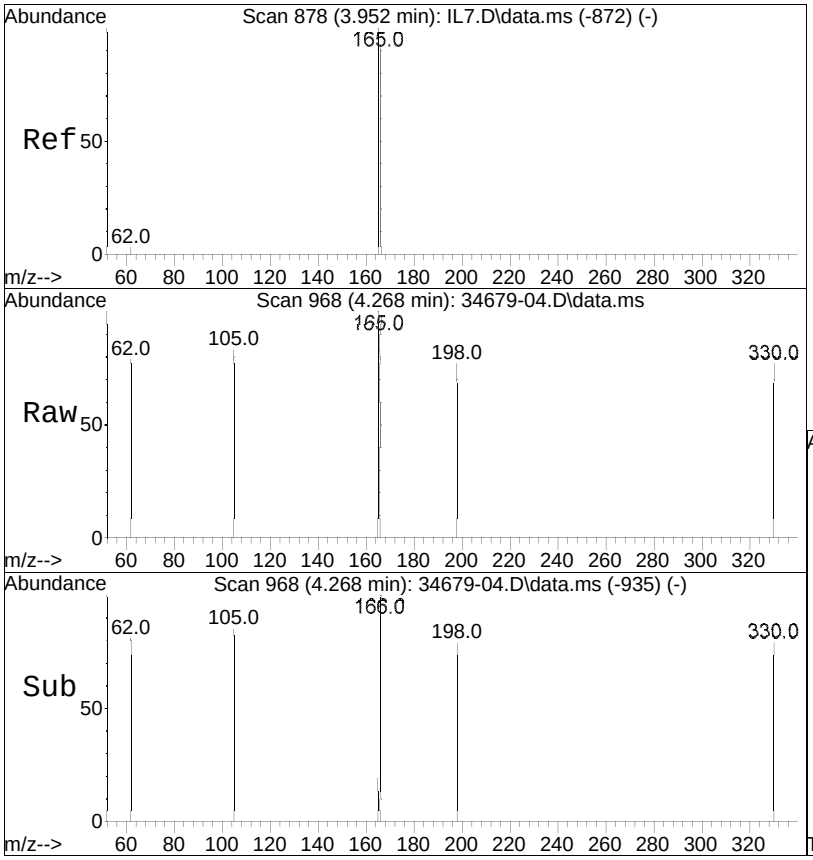


#11
2-Methylnaphthalene
Concen: 3.80 ng/ml M3
RT: 3.369 min Scan# 702
Delta R.T. -0.001 min
Lab File: 34679-04.D
Acq: 24 Jun 2024 01:58 pm

Tgt Ion:142 Resp: 8

Ion	Ratio	Lower	Upper
142	100		
141	100.0	75.9	113.9

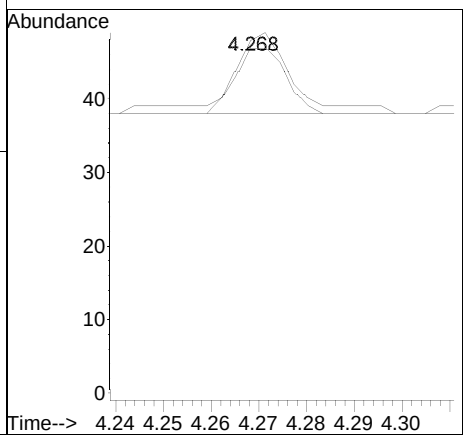


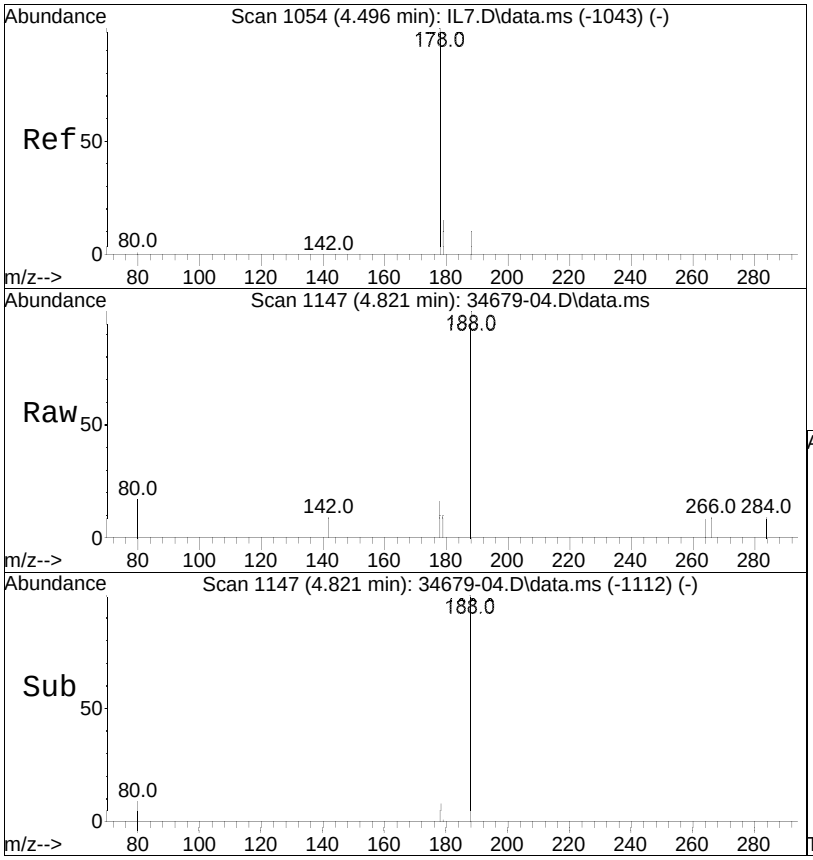


#20
Fluorene
Concen: 2.89 ng/ml M3
RT: 4.268 min Scan# 968
Delta R.T. -0.005 min
Lab File: 34679-04.D
Acq: 24 Jun 2024 01:58 pm

Tgt Ion:166 Resp: 7

Ion	Ratio	Lower	Upper
166	100		
165	114.3	85.7	128.5

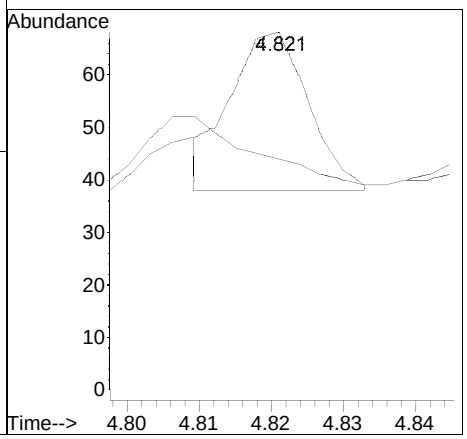


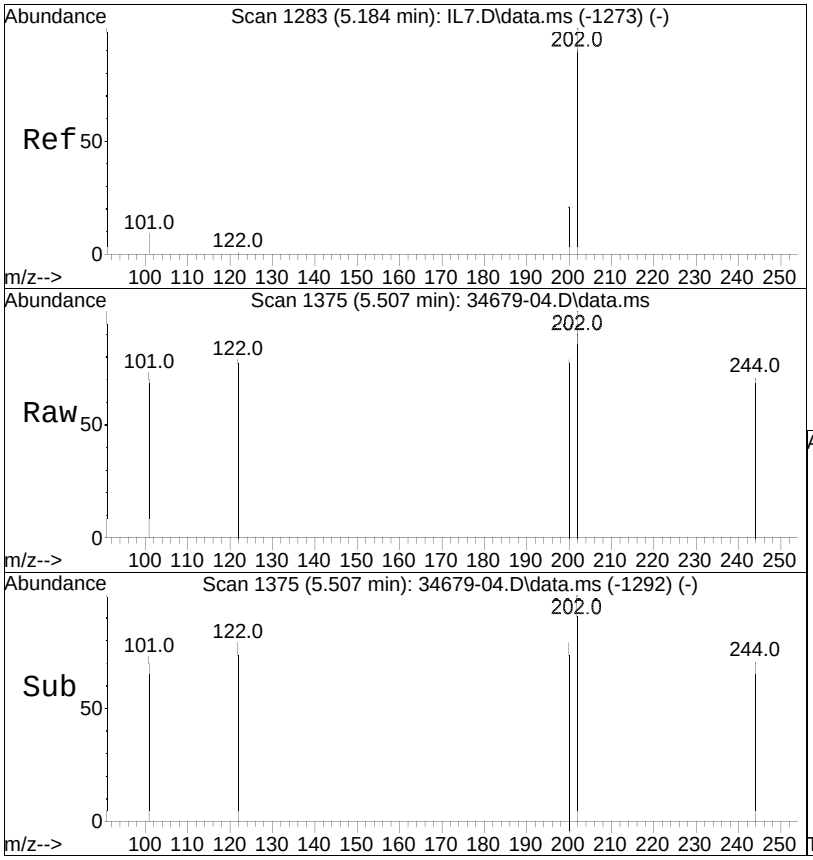


#26
Phenanthrene
Concen: 5.50 ng/ml M6
RT: 4.821 min Scan# 1147
Delta R.T. -0.002 min
Lab File: 34679-04.D
Acq: 24 Jun 2024 01:58 pm

Tgt Ion:178 Resp: 23

Ion	Ratio	Lower	Upper
178	100		
179	13.0	12.2	18.4

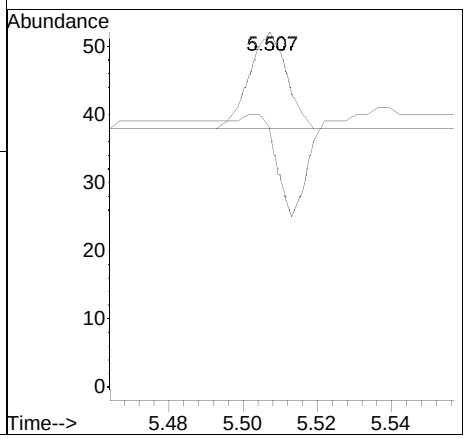




#28
Fluoranthene
Concen: 2.18 ng/ml M6
RT: 5.507 min Scan# 1375
Delta R.T. -0.002 min
Lab File: 34679-04.D
Acq: 24 Jun 2024 01:58 pm

Tgt Ion:202 Resp: 10

Ion	Ratio	Lower	Upper
202	100		
101	10.0	7.2	10.8

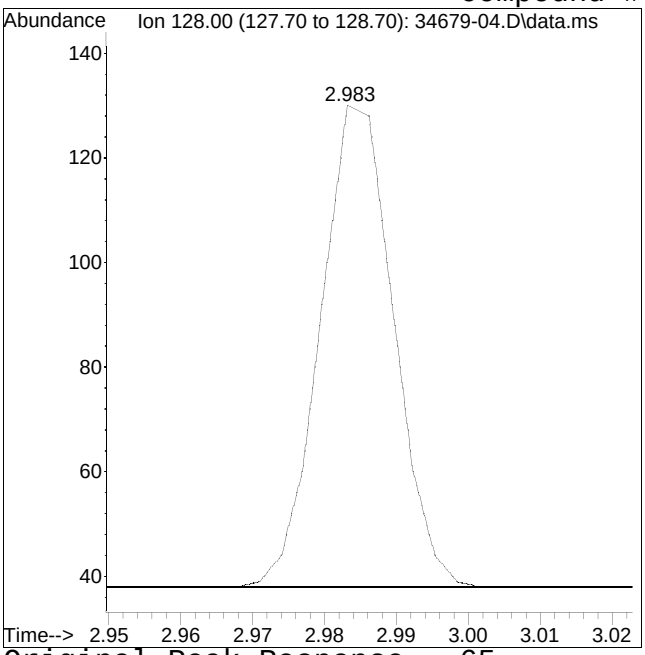


Manual Integration Report

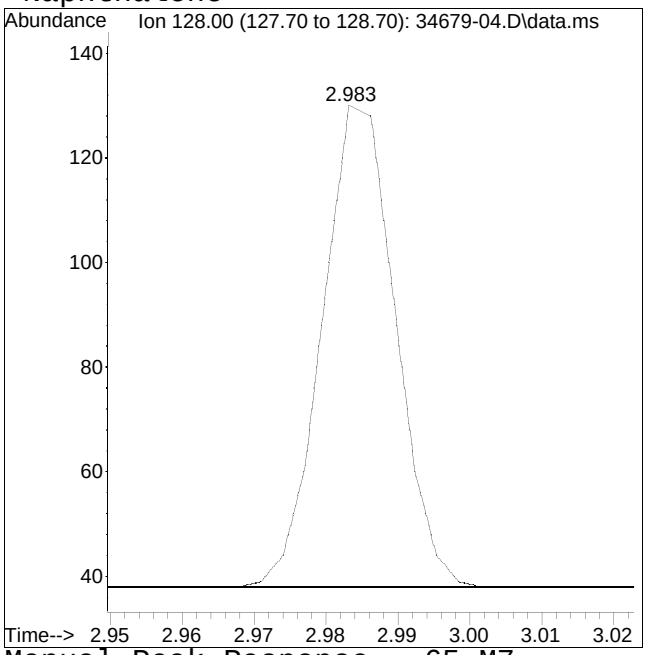
Data Path : I:\8270SIM\SV128\240624\
Data File : 34679-04.D
Date Inj'd : 6/24/2024 1:58 pm
Sample : L2434679-04,32,,jjw

QMethod : SIM-LVI_231211_sv128.M
Operator : SV128:jjw
Instrument : SV128
Quant Date : 6/24/2024 2:11 pm

Compound #9: Naphthalene



Original Peak Response = 65



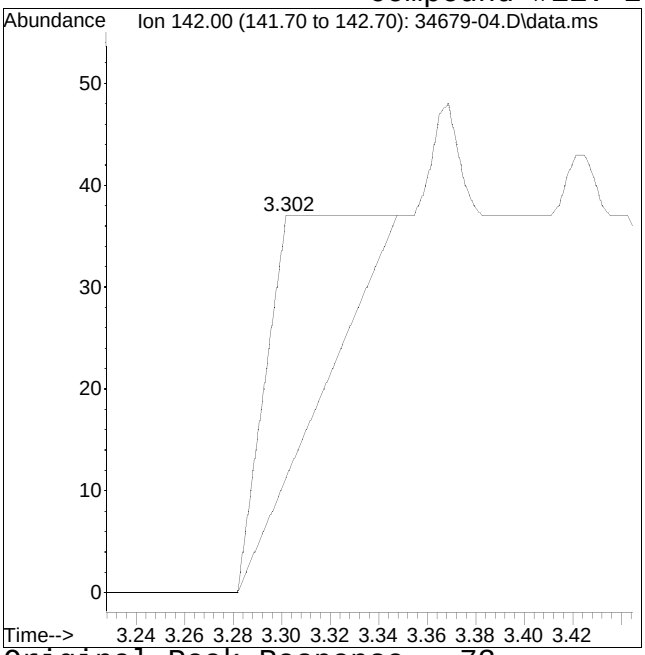
Manual Peak Response = 65 M7

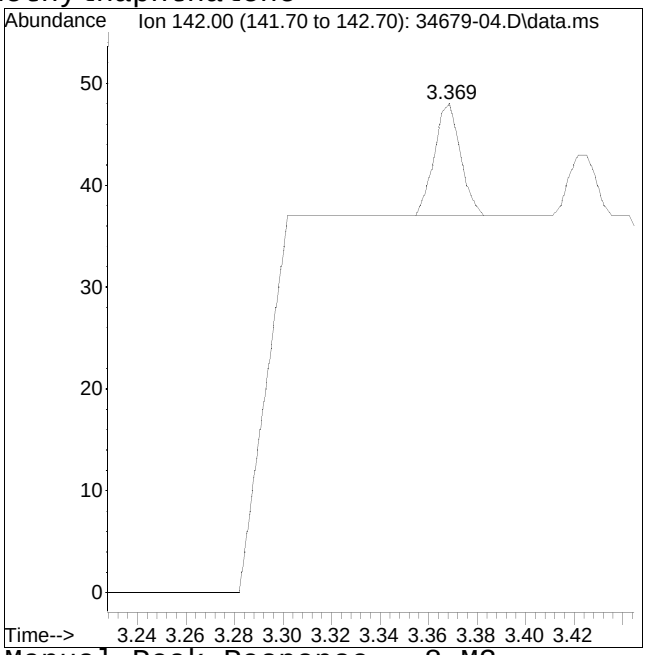
M7 = A qualifier ion was manually integrated (only for GC/MS data).

Manual Integration Report

Data Path : I:\8270SIM\SV128\240624\ QMethod : SIM-LVI_231211_sv128.M
Data File : 34679-04.D Operator : SV128:jjw
Date Inj'd : 6/24/2024 1:58 pm Instrument : SV128
Sample : L2434679-04,32,,jjw Quant Date : 6/24/2024 2:11 pm

Compound #11: 2-Methylnaphthalene





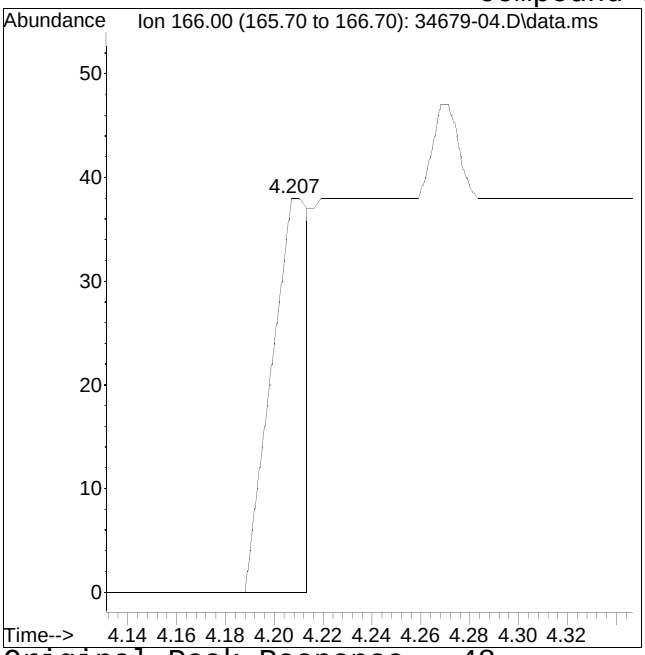
Original Peak Response = 73 Manual Peak Response = 8 M3

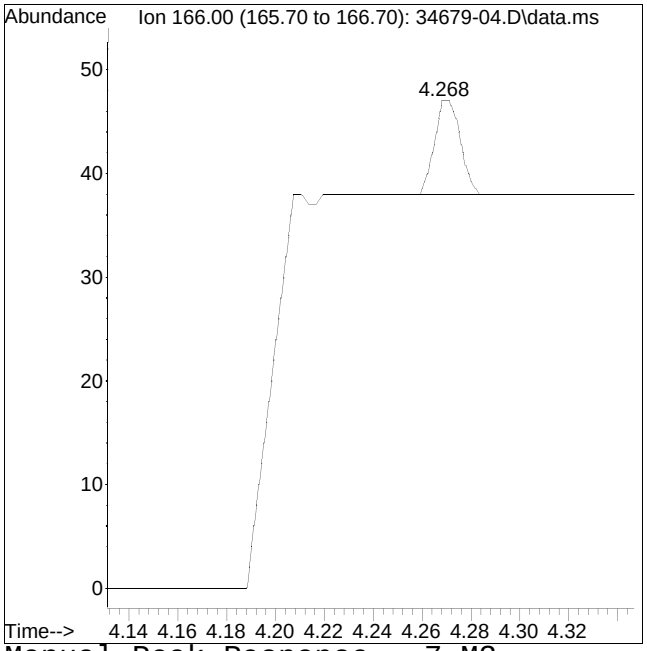
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\8270SIM\SV128\240624\ QMethod : SIM-LVI_231211_sv128.M
Data File : 34679-04.D Operator : SV128:jjw
Date Inj'd : 6/24/2024 1:58 pm Instrument : SV128
Sample : L2434679-04,32,,jjw Quant Date : 6/24/2024 2:11 pm

Compound #20: Fluorene





Original Peak Response = 48 Manual Peak Response = 7 M3

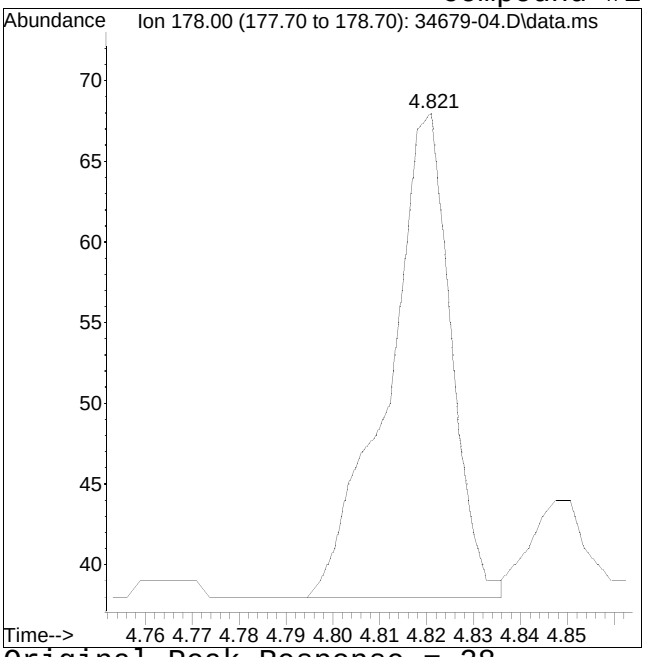
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

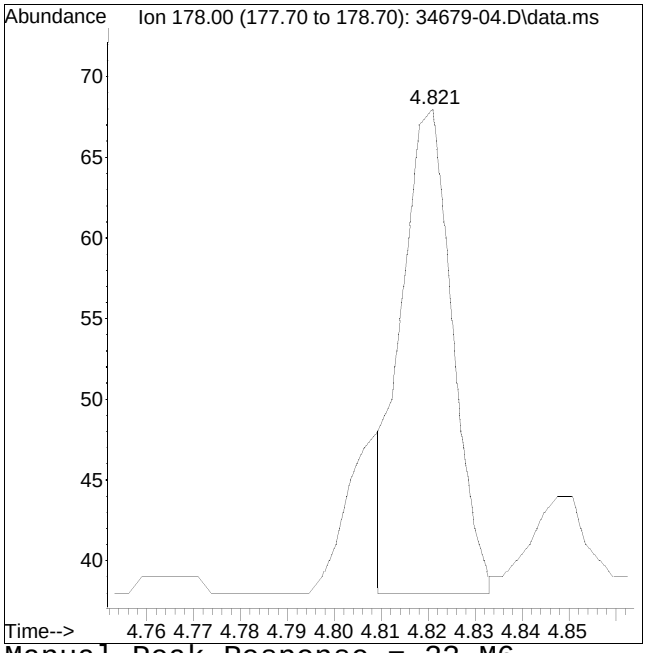
Data Path : I:\8270SIM\SV128\240624\
Data File : 34679-04.D
Date Inj'd : 6/24/2024 1:58 pm
Sample : L2434679-04,32,,jjw

QMethod : SIM-LVI_231211_sv128.M
Operator : SV128:jjw
Instrument : SV128
Quant Date : 6/24/2024 2:11 pm

Compound #26: Phenanthrene



Original Peak Response = 28



Manual Peak Response = 23 M6

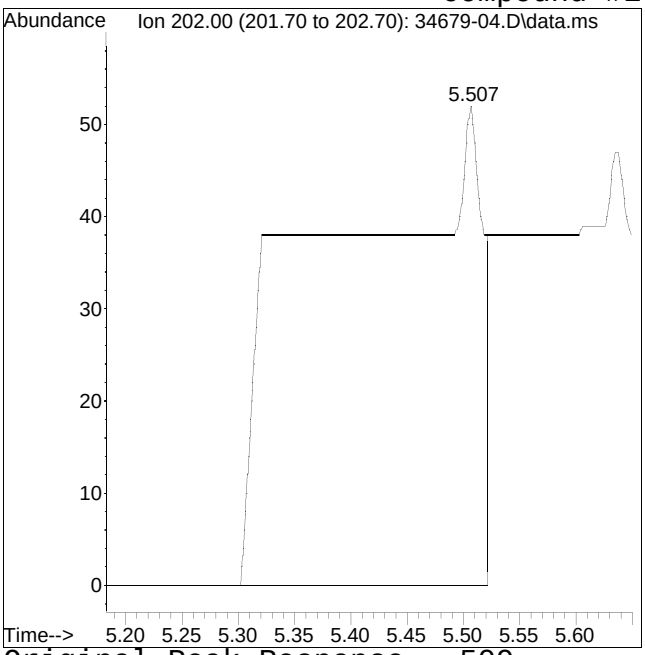
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

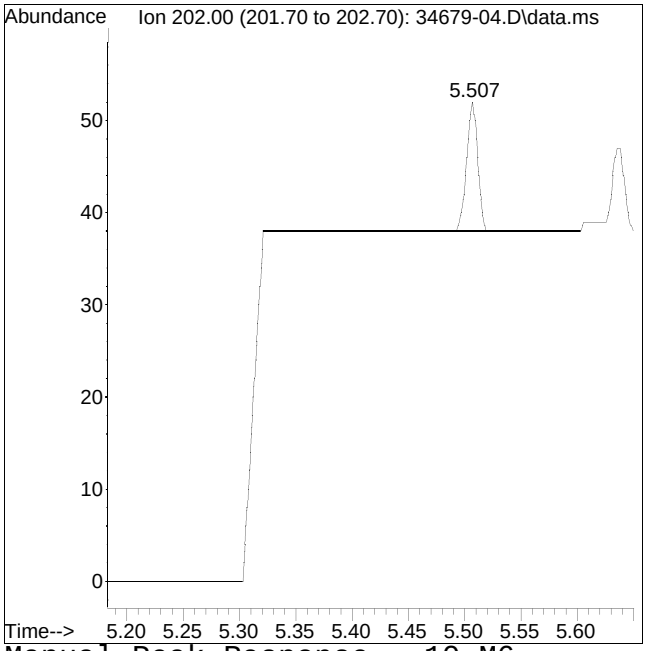
Data Path : I:\8270SIM\SV128\240624\
Data File : 34679-04.D
Date Inj'd : 6/24/2024 1:58 pm
Sample : L2434679-04,32,,jjw

QMethod : SIM-LVI_231211_sv128.M
Operator : SV128:jjw
Instrument : SV128
Quant Date : 6/24/2024 2:11 pm

Compound #28: Fluoranthene



Original Peak Response = 509



Manual Peak Response = 10 M6

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV128\240624\
Data File : 34679-05.D
Acq On : 24 Jun 2024 02:14 pm
Operator : SV128:jjw
Sample : L2434679-05,32,,jjw
Misc : WG1938533,WG1938280,ical20676
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jun 27 14:20:01 2024
Quant Method : I:\8270sim\sv128\240624\SIM-LVI_231211_sv128.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 24 11:39:29 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270sim\sv128\240624\ccv0624.D
Sub List : DEFAULT - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.302	152	3643	4000.000	ng/ml	0.00
Standard Area 1 = 4069			Recovery = 89.53%			
8) Naphthalene-d8	2.975	136	12670	4000.000	ng/ml	0.00
Standard Area 1 = 14375			Recovery = 88.14%			
17) Acenaphthene-d10	3.958	164	7030	4000.000	ng/ml	0.00
Standard Area 1 = 8180			Recovery = 85.94%			
22) Phenanthrene-d10	4.805	188	15182	4000.000	ng/ml	0.00
Standard Area 1 = 17962			Recovery = 84.52%			
31) Chrysene-d12	6.386	240	13967	4000.000	ng/ml	0.00
Standard Area 1 = 16460			Recovery = 84.85%			
36) Perylene-d12	7.695	264	15565	4000.000	ng/ml	-0.02
Standard Area 1 = 18271			Recovery = 85.19%			
System Monitoring Compounds						
2) 2-Fluorophenol	1.695	112	3525	3842.516	ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 76.85%			
3) Phenol-d6	2.108	99	3621	3377.444	ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 67.55%			
7) Nitrobenzene-d5	2.584	82	2309	2664.986	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 106.60%			
13) 2-Fluorobiphenyl	3.574	172	5656	2104.997	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 84.20%			
21) 2,4,6-Tribromophenol	4.407	330	1664	4736.692	ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 94.73%			
30) 4-Terphenyl-d14	5.727	244	7044	2227.028	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 89.08%			
Target Compounds						Qvalue
6) Hexachloroethane	0.000		0	N.D.		
9) Naphthalene	2.984	128	77M7	23.699	ng/ml	
10) Hexachlorobutadiene	0.000		0	N.D.		
11) 2-Methylnaphthalene	3.367	142	12M6	5.781	ng/ml	
14) 2-Chloronaphthalene	0.000		0	N.D.		
16) Acenaphthylene	0.000		0	N.D.		
18) Acenaphthene	0.000		0	N.D.		
20) Fluorene	4.270	166	10M6	4.169	ng/ml	
24) Hexachlorobenzene	0.000		0	N.D.	d	
25) Pentachlorophenol	0.000		0	N.D.	d	

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV128\240624\
Data File : 34679-05.D
Acq On : 24 Jun 2024 02:14 pm
Operator : SV128:jjw
Sample : L2434679-05,32,,jjw
Misc : WG1938533,WG1938280,ical20676
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jun 27 14:20:01 2024
Quant Method : I:\8270sim\sv128\240624\SIM-LVI_231211_sv128.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 24 11:39:29 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270sim\sv128\240624\ccv0624.D
Sub List : DEFAULT - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
26) Phenanthrene	4.820	178	28M6	6.820	ng/ml	
27) Anthracene	4.846	178	7M4	1.765	ng/ml	
28) Fluoranthene	0.000		0	N.D.	d	
29) Pyrene	0.000		0	N.D.	d	
32) Benzo[a]anthracene	6.383	228	50M6	3.452	ng/ml	
34) Chrysene	6.400	228	5M3	1.038	ng/ml	
37) Benzo[b]fluoranthene	0.000		0	N.D.	d	
38) Benzo[k]fluoranthene	0.000		0	N.D.	d	
39) Benzo[a]pyrene	0.000		0	N.D.	d	
40) Indeno[1,2,3-cd]pyrene	0.000		0	N.D.		
41) Dibenzo[a,h]anthracene	0.000		0	N.D.		
42) Benzo[g,h,i]perylene	0.000		0	N.D.	d	

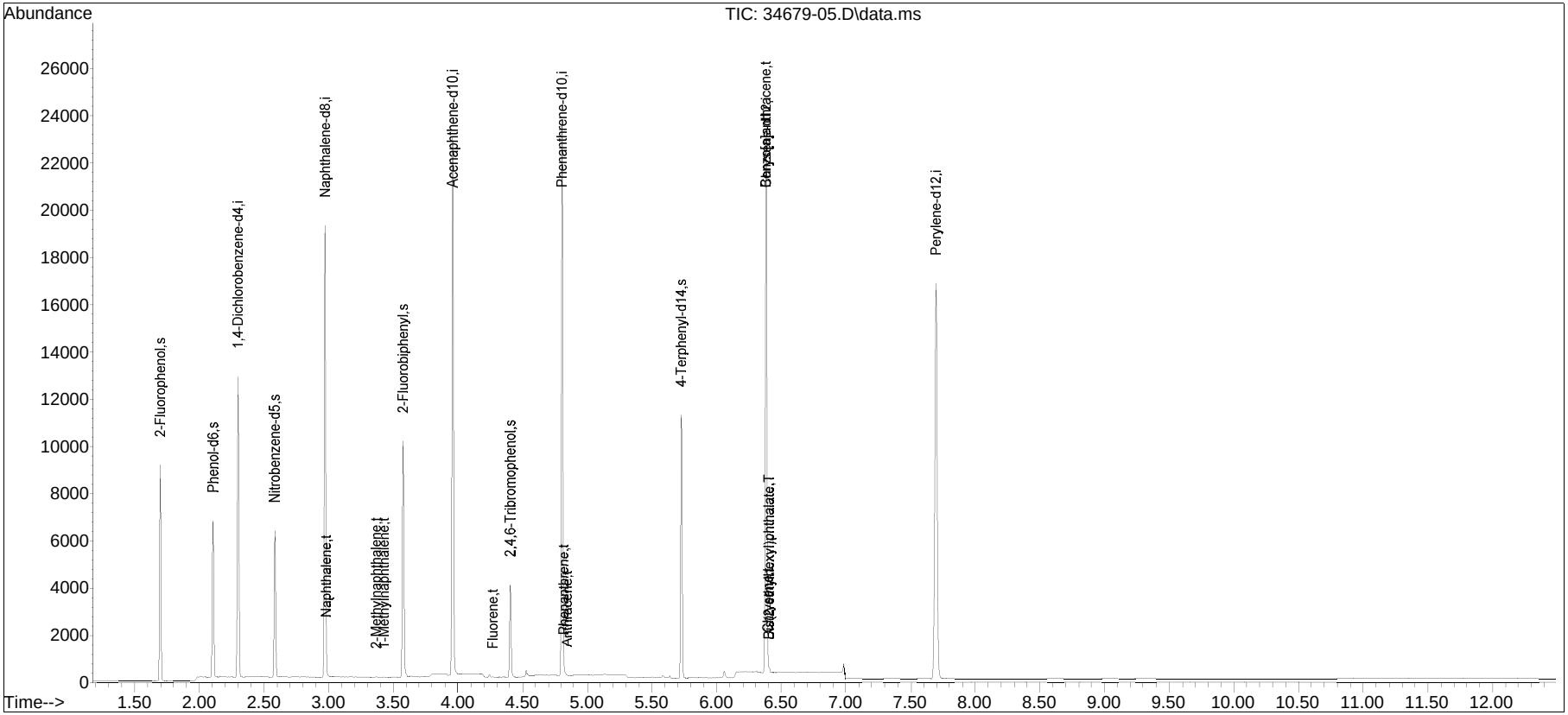
(#) = qualifier out of range (m) = manual integration (+) = signals summed

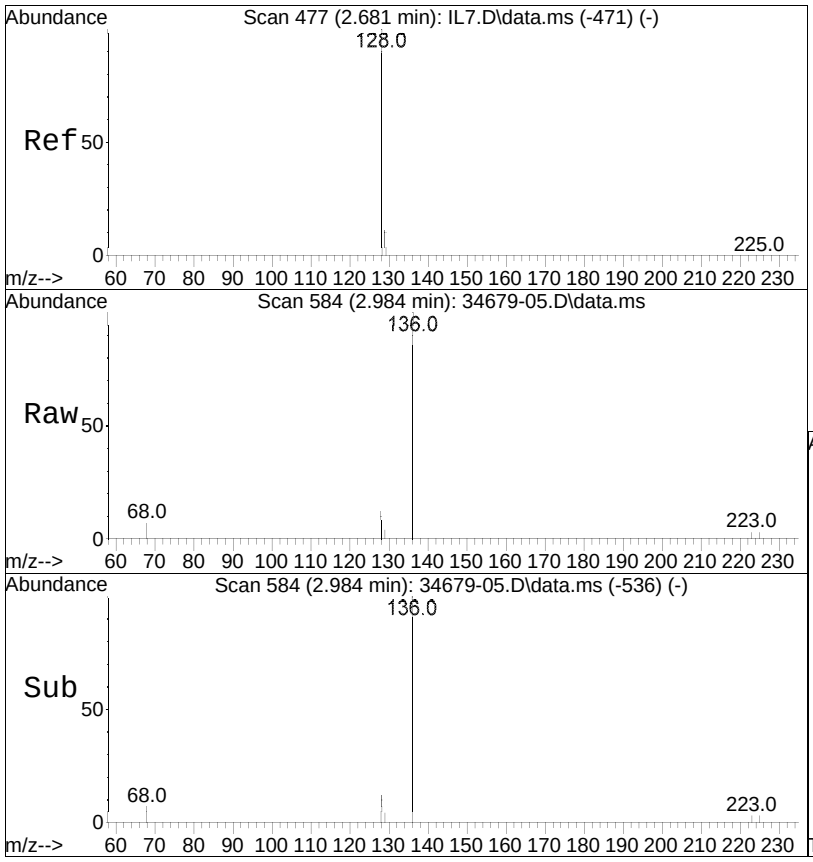
Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV128\240624\
Data File : 34679-05.D
Acq On : 24 Jun 2024 02:14 pm
Operator : SV128:jjw
Sample : L2434679-05,32,,jjw
Misc : WG1938533,WG1938280,ical20676
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jun 27 14:20:01 2024
Quant Method : I:\8270sim\sv128\240624\SIM-LVI_231211_sv128.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 24 11:39:29 2024
Response via : Initial Calibration

Sub List : DEFAULT - All compounds listedv0624.D•

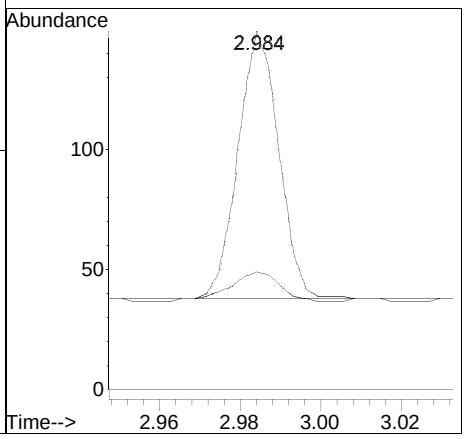


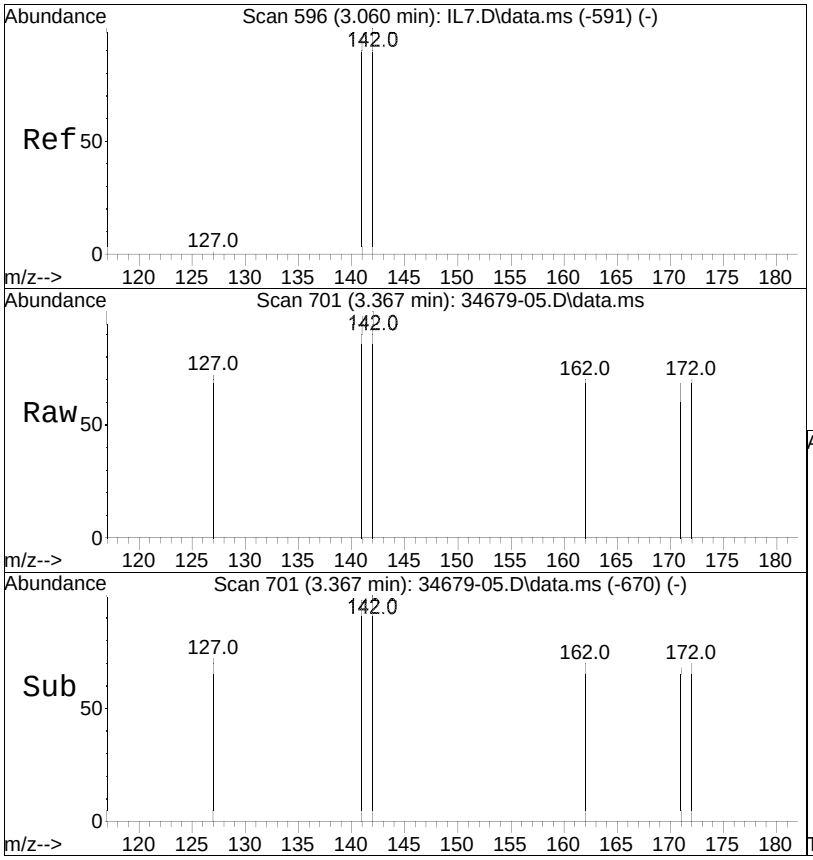


#9
Naphthalene
Concen: 23.70 ng/ml M7
RT: 2.984 min Scan# 584
Delta R.T. -0.003 min
Lab File: 34679-05.D
Acq: 24 Jun 2024 02:14 pm

Tgt Ion:128 Resp: 77

Ion	Ratio	Lower	Upper
128	100		
129	18.2	8.8	13.2#
127	0.0	0.0	0.0

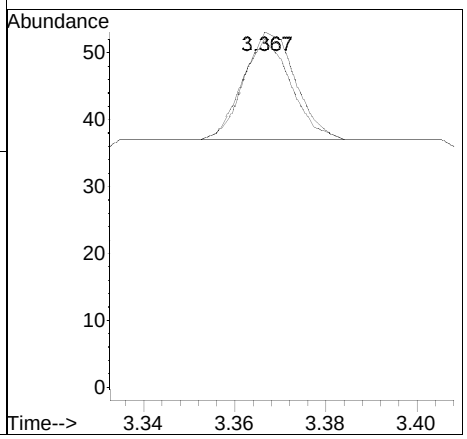


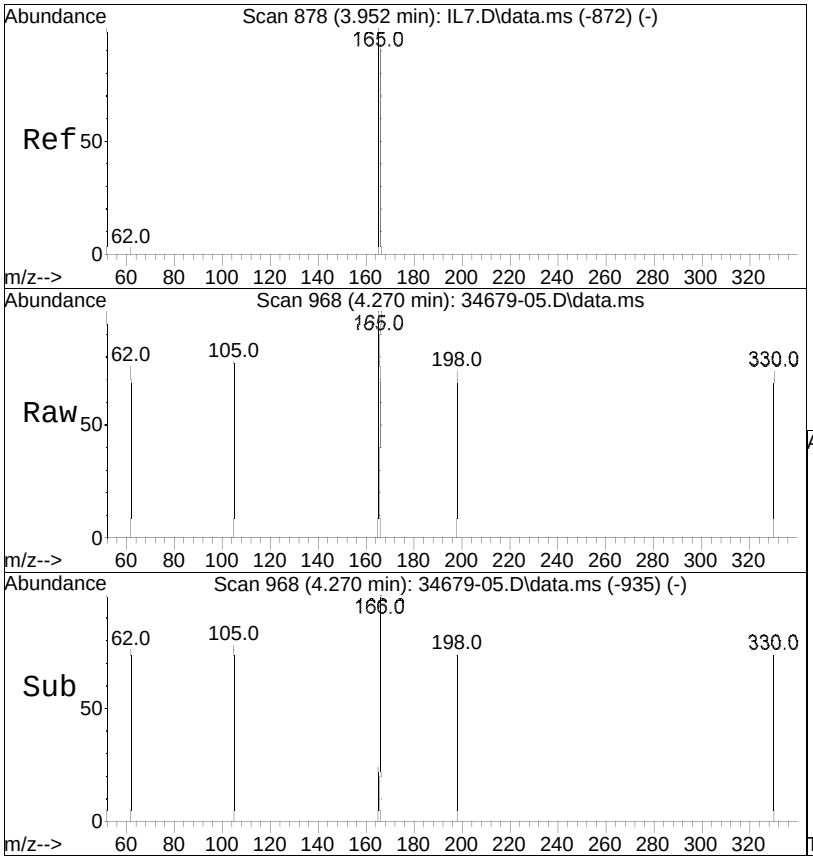


#11
2-Methylnaphthalene
Concen: 5.78 ng/ml M6
RT: 3.367 min Scan# 701
Delta R.T. -0.003 min
Lab File: 34679-05.D
Acq: 24 Jun 2024 02:14 pm

Tgt Ion:142 Resp: 12

Ion	Ratio	Lower	Upper
142	100		
141	91.7	75.9	113.9

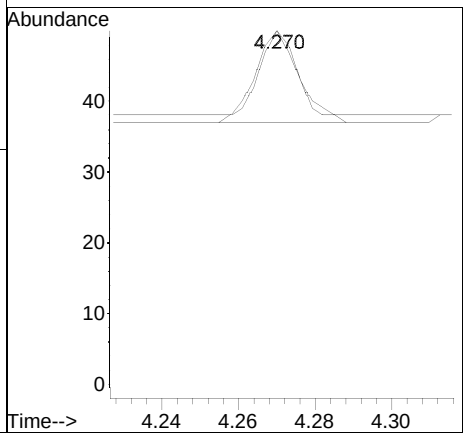


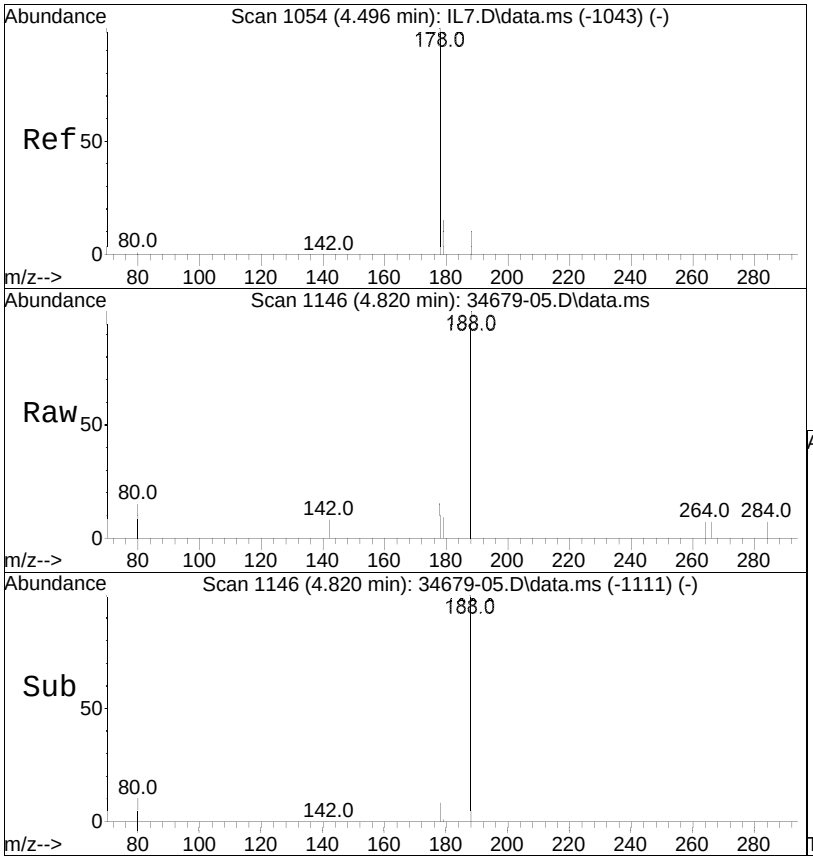


#20
Fluorene
Concen: 4.17 ng/ml M6
RT: 4.270 min Scan# 968
Delta R.T. -0.003 min
Lab File: 34679-05.D
Acq: 24 Jun 2024 02:14 pm

Tgt Ion:166 Resp: 10

Ion	Ratio	Lower	Upper
166	100		
165	100.0	85.7	128.5

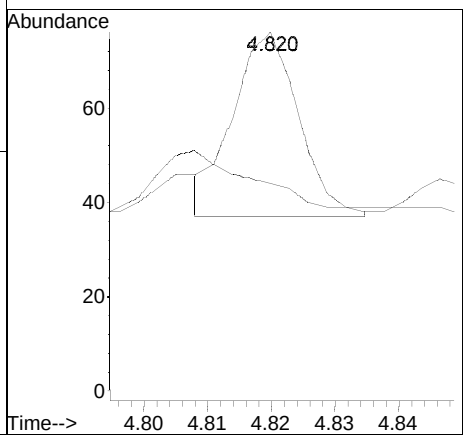


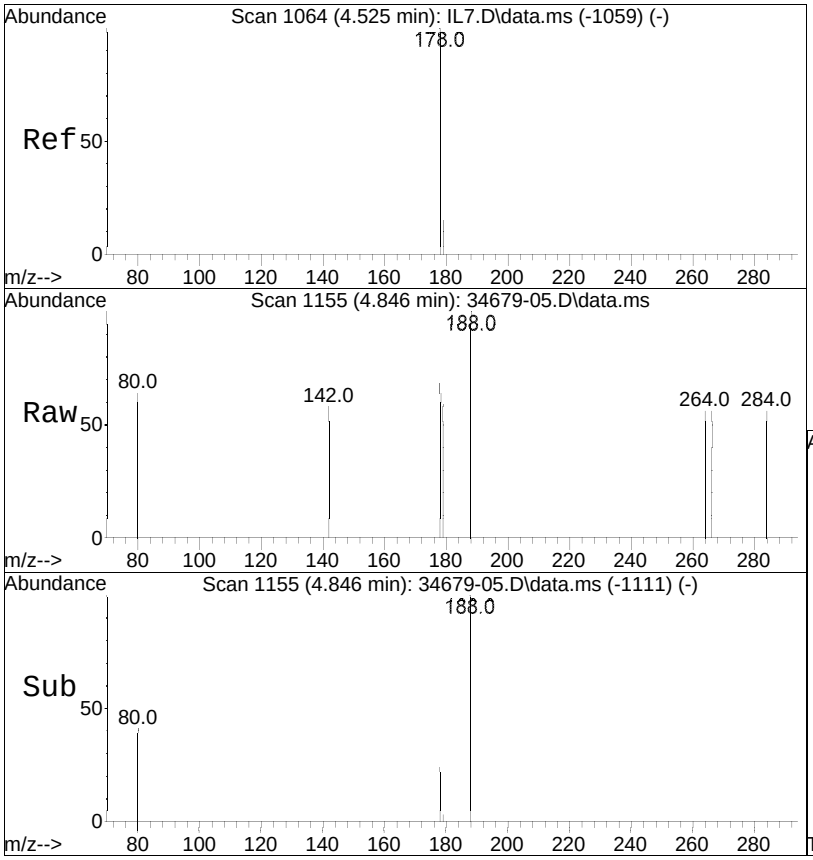


#26
Phenanthrene
Concen: 6.82 ng/ml M6
RT: 4.820 min Scan# 1146
Delta R.T. -0.003 min
Lab File: 34679-05.D
Acq: 24 Jun 2024 02:14 pm

Tgt Ion:178 Resp: 28

Ion	Ratio	Lower	Upper
178	100		
179	17.9	12.2	18.4

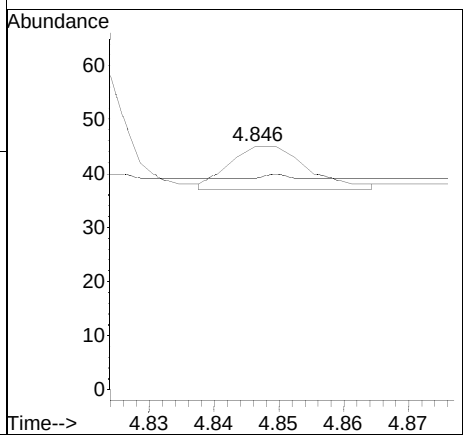


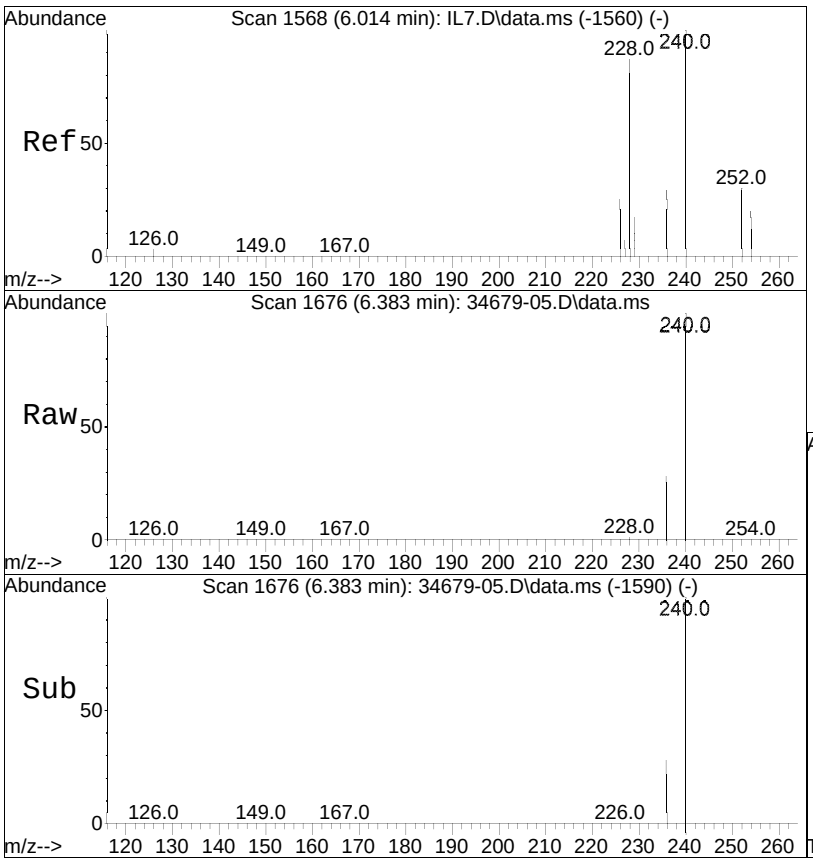


#27
Anthracene
Concen: 1.76 ng/ml M4
RT: 4.846 min Scan# 1155
Delta R.T. -0.006 min
Lab File: 34679-05.D
Acq: 24 Jun 2024 02:14 pm

Tgt Ion:178 Resp: 7

Ion	Ratio	Lower	Upper
178	100		
179	14.3	12.2	18.2

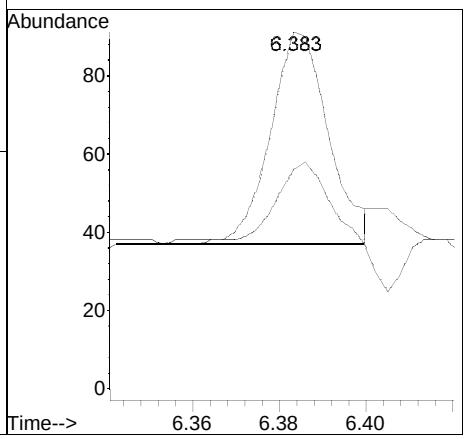


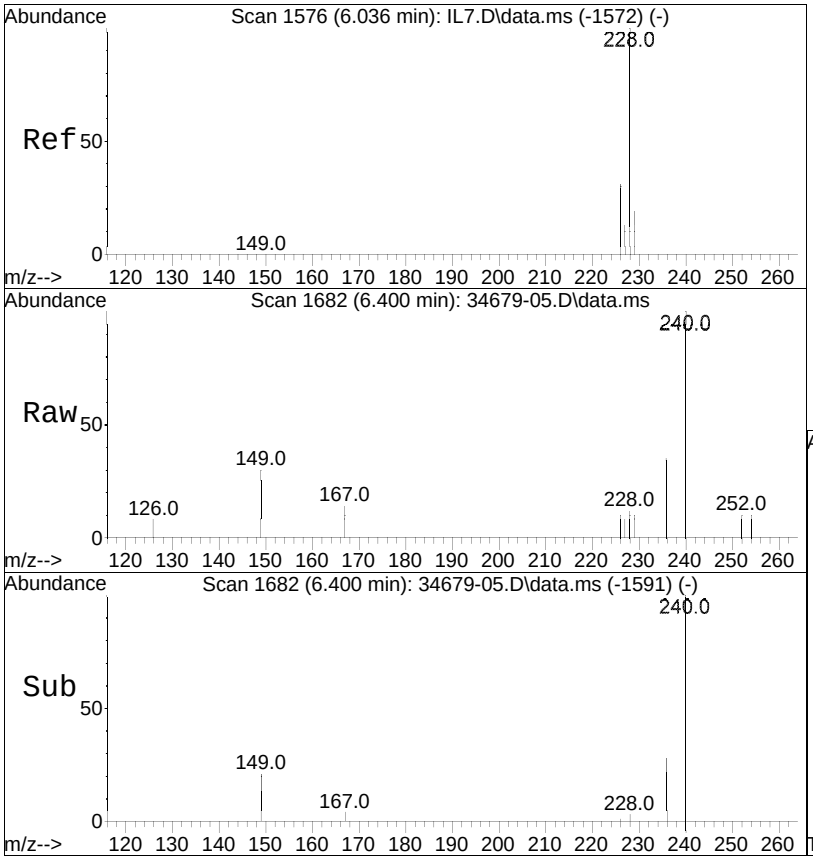


#32
Benzo[a]anthracene
Concen: 3.45 ng/ml M6
RT: 6.383 min Scan# 1676
Delta R.T. -0.003 min
Lab File: 34679-05.D
Acq: 24 Jun 2024 02:14 pm

Tgt Ion:228 Resp: 50

Ion	Ratio	Lower	Upper
228	100		
229	34.0	15.7	23.5#

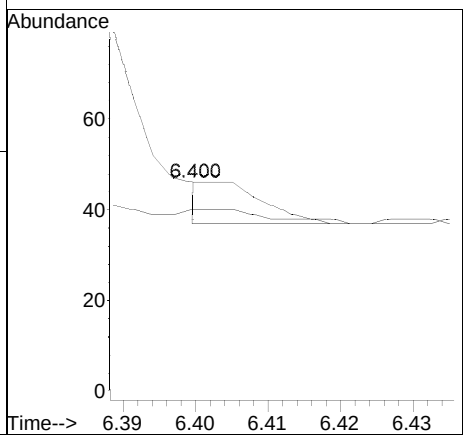




#34
Chrysene
Concen: 1.04 ng/ml M3
RT: 6.400 min Scan# 1682
Delta R.T. -0.011 min
Lab File: 34679-05.D
Acq: 24 Jun 2024 02:14 pm

Tgt Ion:228 Resp: 5

Ion	Ratio	Lower	Upper
228	100		
226	40.0	24.6	36.8#

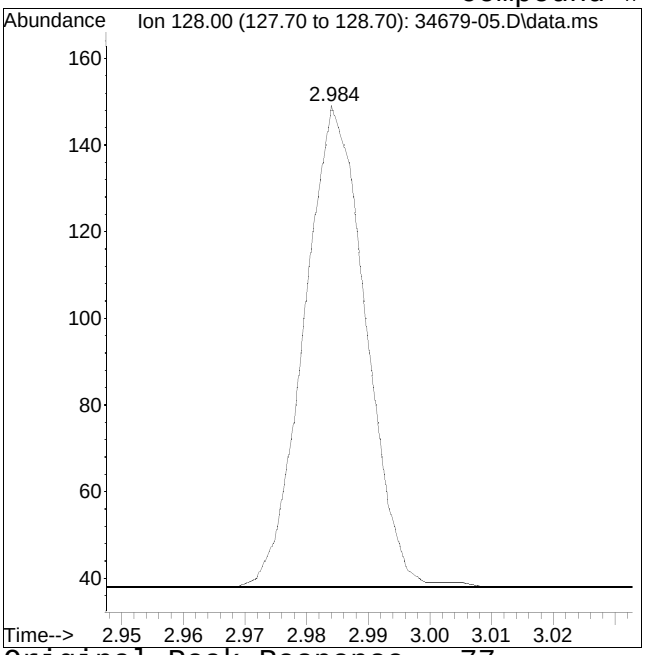


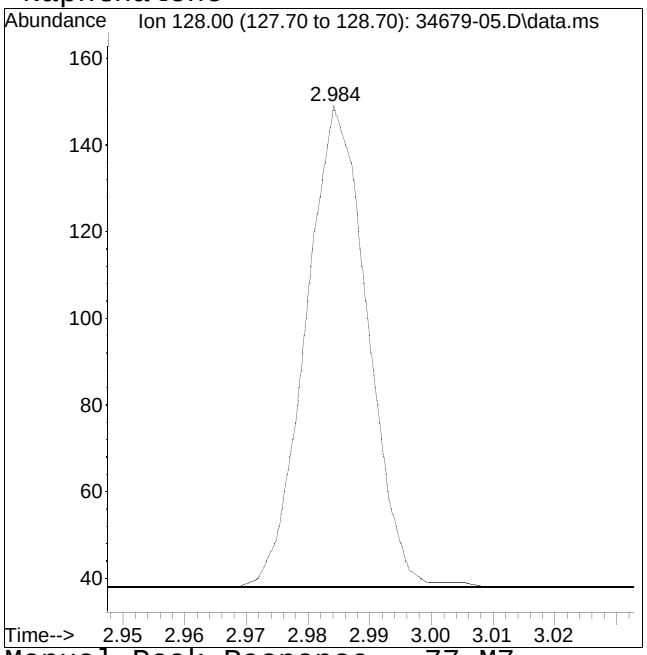
Manual Integration Report

Data Path : I:\8270SIM\SV128\240624\
Data File : 34679-05.D
Date Inj'd : 6/24/2024 2:14 pm
Sample : L2434679-05,32,,jjw

QMethod : SIM-LVI_231211_sv128.M
Operator : SV128:jjw
Instrument : SV128
Quant Date : 6/24/2024 2:27 pm

Compound #9: Naphthalene



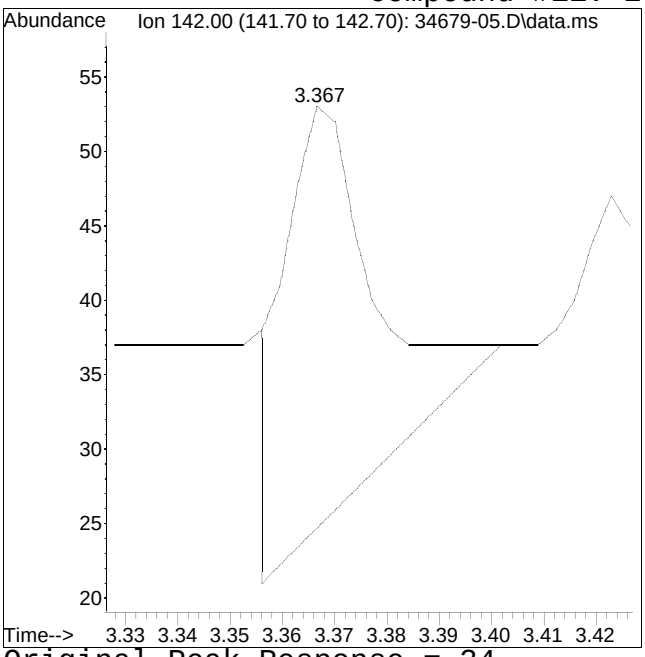


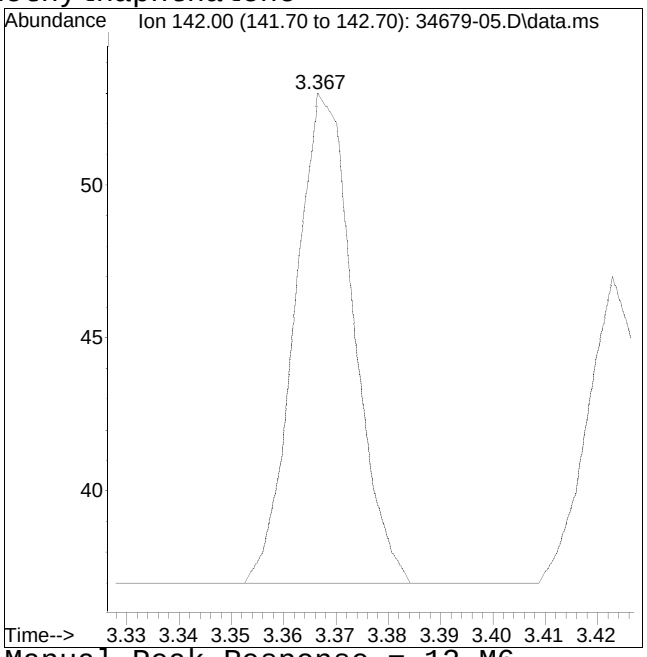
Original Peak Response = 77 Manual Peak Response = 77 M7
M7 = A qualifier ion was manually integrated (only for GC/MS data).

Manual Integration Report

Data Path : I:\8270SIM\SV128\240624\ QMethod : SIM-LVI_231211_sv128.M
Data File : 34679-05.D Operator : SV128:jjw
Date Inj'd : 6/24/2024 2:14 pm Instrument : SV128
Sample : L2434679-05,32,,jjw Quant Date : 6/24/2024 2:27 pm

Compound #11: 2-Methylnaphthalene





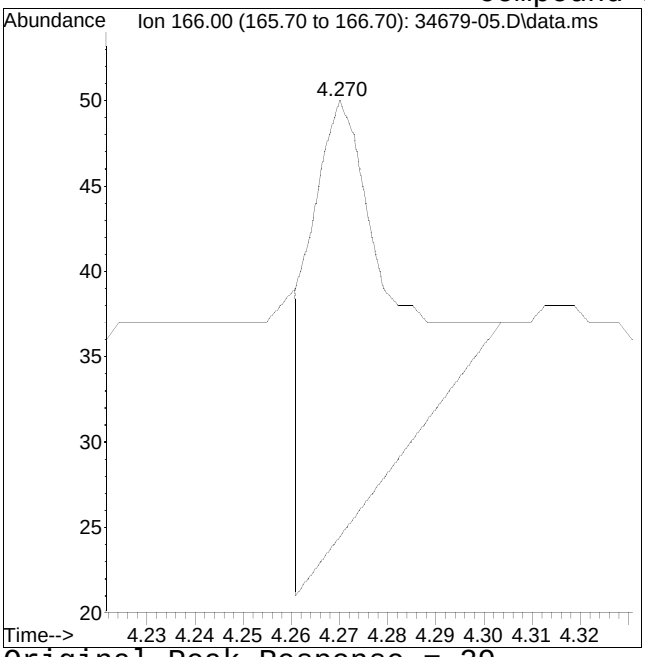
Original Peak Response = 34 Manual Peak Response = 12 M6
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

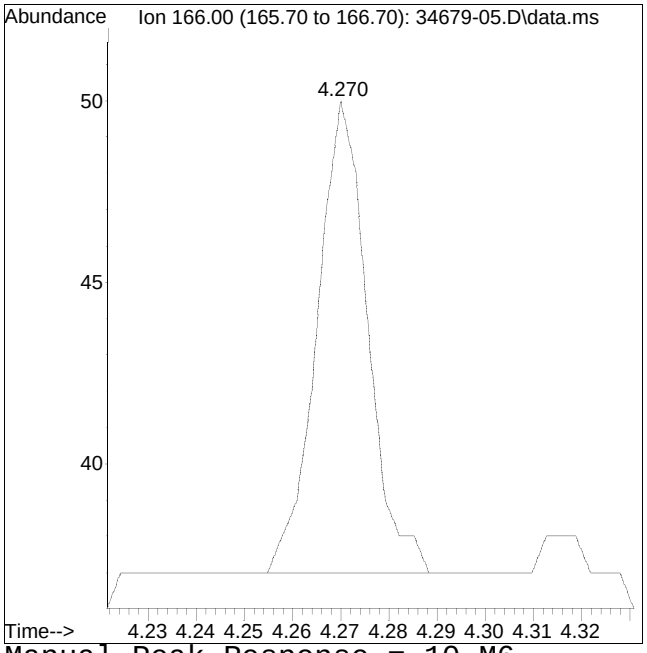
Data Path : I:\8270SIM\SV128\240624\
Data File : 34679-05.D
Date Inj'd : 6/24/2024 2:14 pm
Sample : L2434679-05,32,,jjw

QMethod : SIM-LVI_231211_sv128.M
Operator : SV128:jjw
Instrument : SV128
Quant Date : 6/24/2024 2:27 pm

Compound #20: Fluorene



Original Peak Response = 29



Manual Peak Response = 10 M6

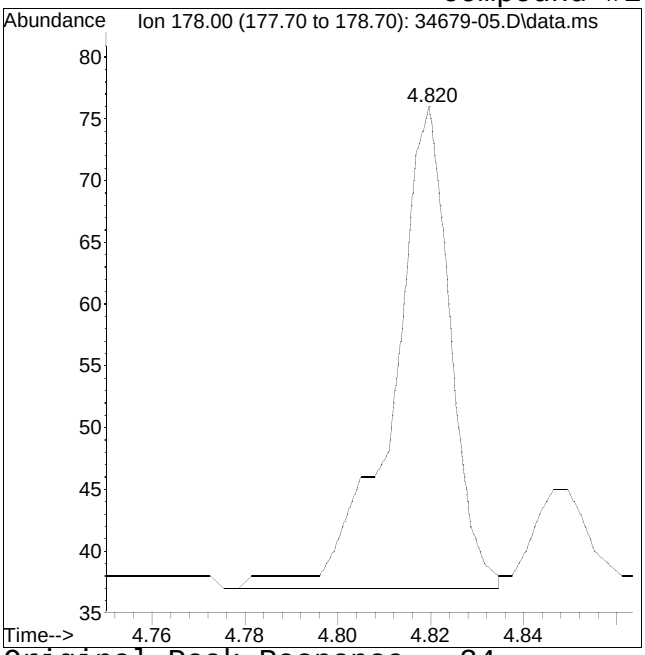
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

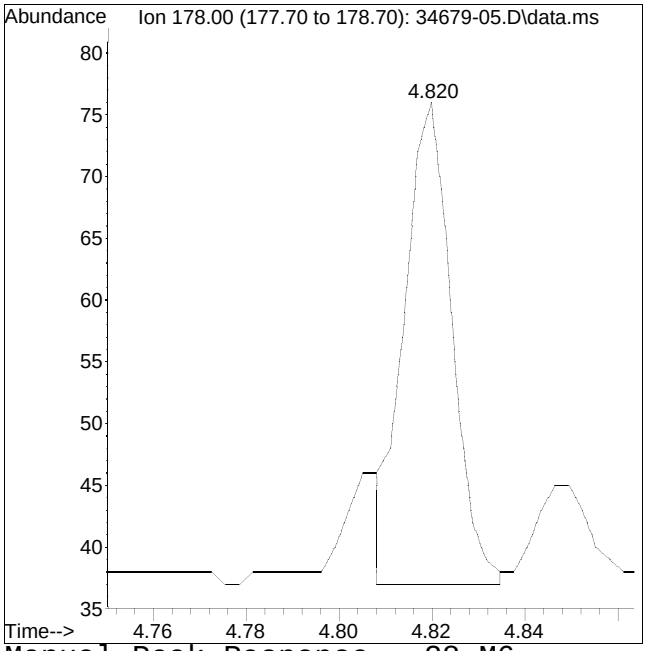
Data Path : I:\8270SIM\SV128\240624\
Data File : 34679-05.D
Date Inj'd : 6/24/2024 2:14 pm
Sample : L2434679-05,32,,jjw

QMethod : SIM-LVI_231211_sv128.M
Operator : SV128:jjw
Instrument : SV128
Quant Date : 6/24/2024 2:27 pm

Compound #26: Phenanthrene



Original Peak Response = 34



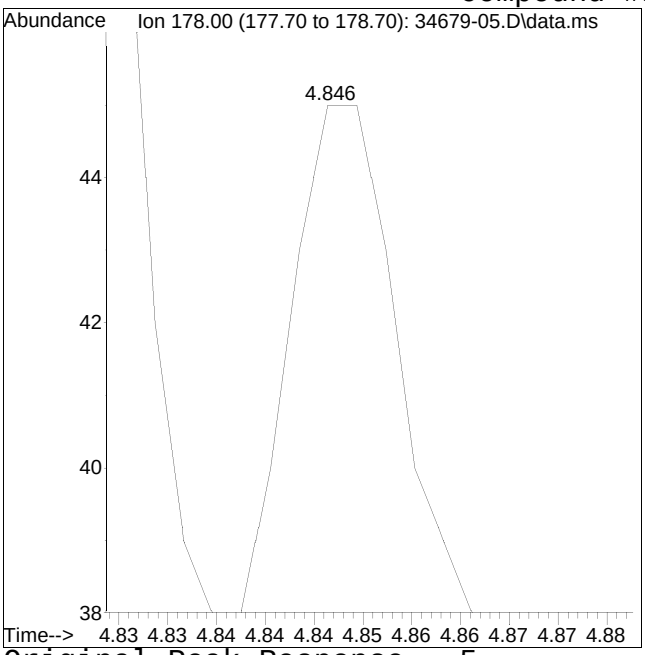
Manual Peak Response = 28 M6

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

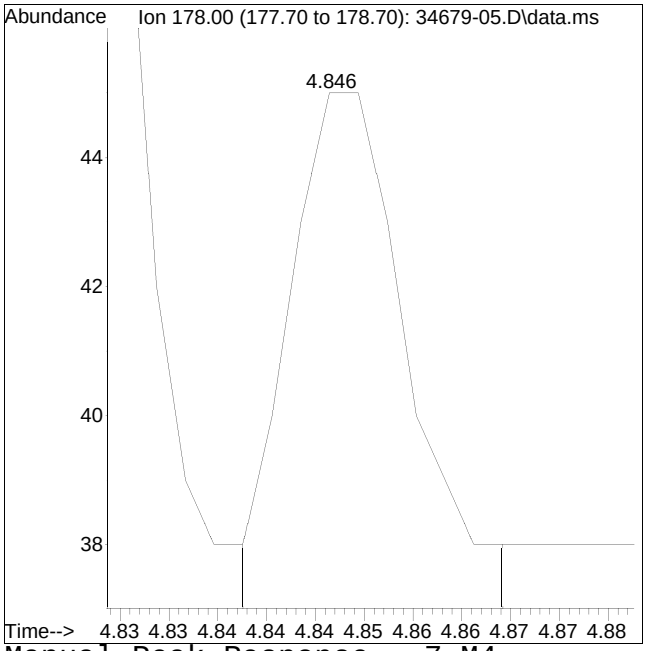
Manual Integration Report

Data Path : I:\8270SIM\SV128\240624\ QMethod : SIM-LVI_231211_sv128.M
Data File : 34679-05.D Operator : SV128:jjw
Date Inj'd : 6/24/2024 2:14 pm Instrument : SV128
Sample : L2434679-05,32,,jjw Quant Date : 6/24/2024 2:27 pm

Compound #27: Anthracene



Original Peak Response = 5



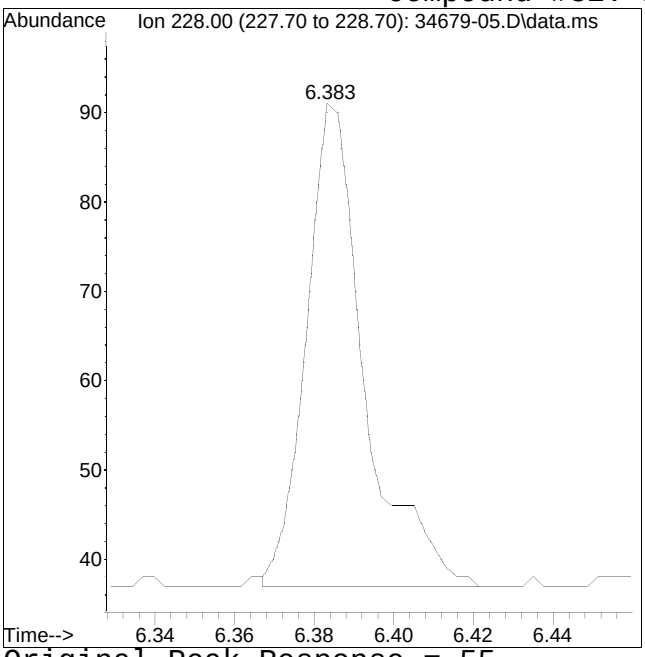
Manual Peak Response = 7 M4

M4 = Poor automated baseline construction.

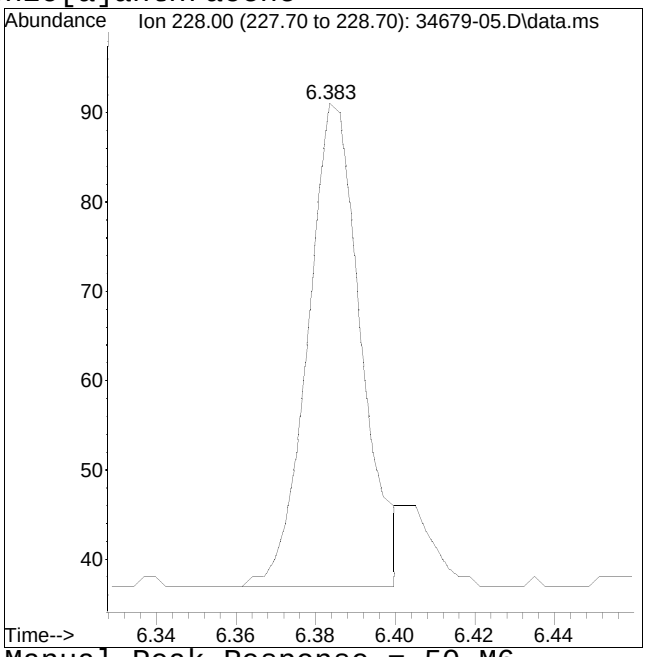
Manual Integration Report

Data Path : I:\8270SIM\SV128\240624\ QMethod : SIM-LVI_231211_sv128.M
Data File : 34679-05.D Operator : SV128:jjw
Date Inj'd : 6/24/2024 2:14 pm Instrument : SV128
Sample : L2434679-05,32,,jjw Quant Date : 6/24/2024 2:27 pm

Compound #32: Benzo[a]anthracene



Original Peak Response = 55



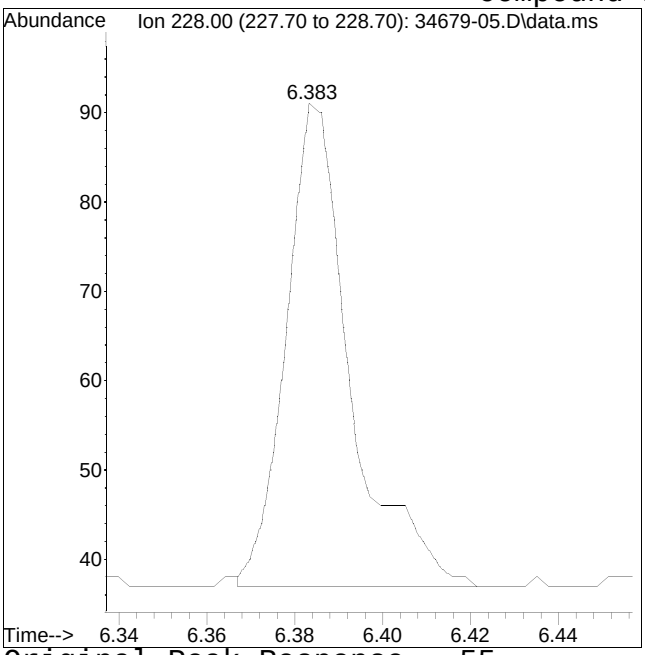
Manual Peak Response = 50 M6

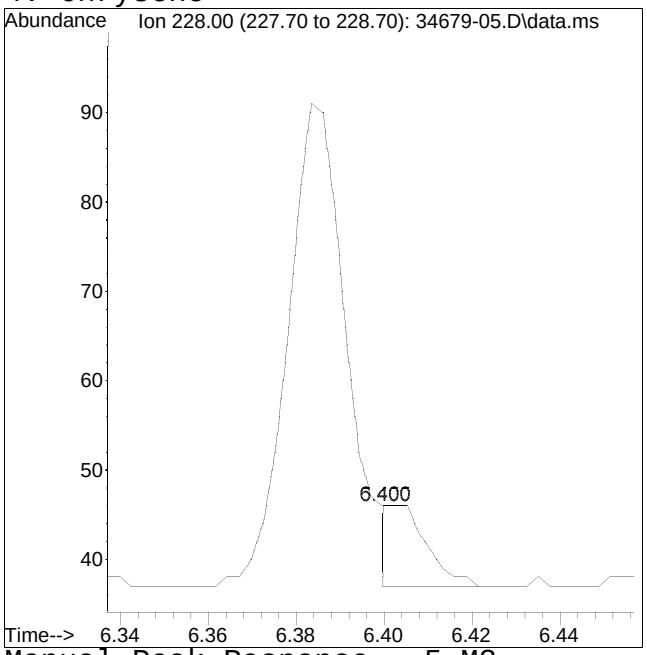
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

Data Path : I:\8270SIM\SV128\240624\ QMethod : SIM-LVI_231211_sv128.M
Data File : 34679-05.D Operator : SV128:jjw
Date Inj'd : 6/24/2024 2:14 pm Instrument : SV128
Sample : L2434679-05,32,,jjw Quant Date : 6/24/2024 2:27 pm

Compound #34: Chrysene





Original Peak Response = 55 Manual Peak Response = 5 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV128\240624\
Data File : 34679-06.D
Acq On : 24 Jun 2024 02:31 pm
Operator : SV128:jjw
Sample : L2434679-06,32,,jjw
Misc : WG1938533,WG1938280,ical20676
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jun 27 14:22:31 2024
Quant Method : I:\8270sim\sv128\240624\SIM-LVI_231211_sv128.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 24 11:39:29 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270sim\sv128\240624\ccv0624.D
Sub List : DEFAULT - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	2.302	152	3544	4000.000	ng/ml		0.00
Standard Area 1 = 4069			Recovery = 87.10%				
8) Naphthalene-d8	2.975	136	12273	4000.000	ng/ml		0.00
Standard Area 1 = 14375			Recovery = 85.38%				
17) Acenaphthene-d10	3.958	164	6819	4000.000	ng/ml		0.00
Standard Area 1 = 8180			Recovery = 83.36%				
22) Phenanthrene-d10	4.808	188	14931	4000.000	ng/ml	#	0.00
Standard Area 1 = 17962			Recovery = 83.13%				
31) Chrysene-d12	6.386	240	13641	4000.000	ng/ml		0.00
Standard Area 1 = 16460			Recovery = 82.87%				
36) Perylene-d12	7.695	264	15123	4000.000	ng/ml		-0.02
Standard Area 1 = 18271			Recovery = 82.77%				
System Monitoring Compounds							
2) 2-Fluorophenol	1.695	112	3584	4015.966	ng/ml		0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 80.32%				
3) Phenol-d6	2.108	99	3695	3542.742	ng/ml		0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 70.85%				
7) Nitrobenzene-d5	2.587	82	2322	2754.855	ng/ml		0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 110.19%				
13) 2-Fluorobiphenyl	3.574	172	5574	2141.583	ng/ml		0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 85.66%				
21) 2,4,6-Tribromophenol	4.410	330	1617	4745.330	ng/ml		0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 94.91%				
30) 4-Terphenyl-d14	5.727	244	7126	2290.827	ng/ml		0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 91.63%				
Target Compounds							Qvalue
6) Hexachloroethane	0.000		0	N.D.			
9) Naphthalene	2.984	128	49M7	15.569	ng/ml		
10) Hexachlorobutadiene	0.000		0	N.D.			
11) 2-Methylnaphthalene	3.366	142	8M3	3.979	ng/ml		
14) 2-Chloronaphthalene	0.000		0	N.D.			
16) Acenaphthylene	0.000		0	N.D.	d		
18) Acenaphthene	0.000		0	N.D.			
20) Fluorene	4.270	166	6M3	2.579	ng/ml		
24) Hexachlorobenzene	0.000		0	N.D.	d		
25) Pentachlorophenol	0.000		0	N.D.			

Data Path : I:\8270SIM\SV128\240624\
Data File : 34679-06.D
Acq On : 24 Jun 2024 02:31 pm
Operator : SV128:jjw
Sample : L2434679-06,32,,jjw
Misc : WG1938533,WG1938280,ical20676
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jun 27 14:22:31 2024
Quant Method : I:\8270sim\sv128\240624\SIM-LVI_231211_sv128.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 24 11:39:29 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270sim\sv128\240624\ccv0624.D
Sub List : DEFAULT - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
26) Phenanthrene	4.820	178	22M6	5.449	ng/ml	
27) Anthracene	4.849	178	7M7	1.794	ng/ml	
28) Fluoranthene	5.506	202	21M4	4.734	ng/ml	
29) Pyrene	5.637	202	20M6	4.358	ng/ml	
32) Benzo[a]anthracene	6.383	228	57	5.122	ng/ml#	58
34) Chrysene	6.402	228	16M4	3.402	ng/ml	
37) Benzo[b]fluoranthene	0.000		0	N.D.	d	
38) Benzo[k]fluoranthene	0.000		0	N.D.	d	
39) Benzo[a]pyrene	7.626	252	12M7	2.910	ng/ml	
40) Indeno[1,2,3-cd]pyrene	9.011	276	10M7	2.425	ng/ml	
41) Dibenzo[a,h]anthracene	0.000		0	N.D.	d	
42) Benzo[g,h,i]perylene	9.377	276	12M7	2.800	ng/ml	

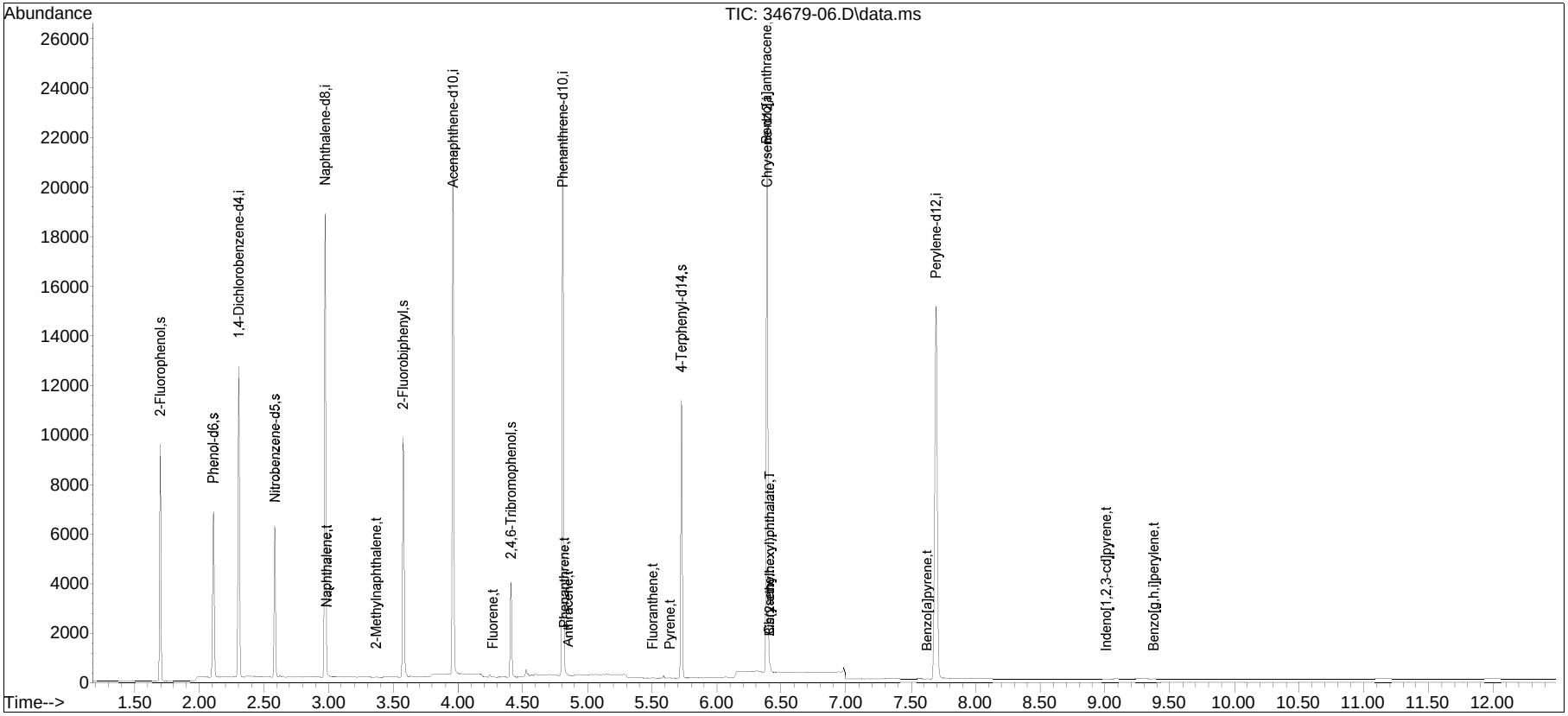
(#) = qualifier out of range (m) = manual integration (+) = signals summed

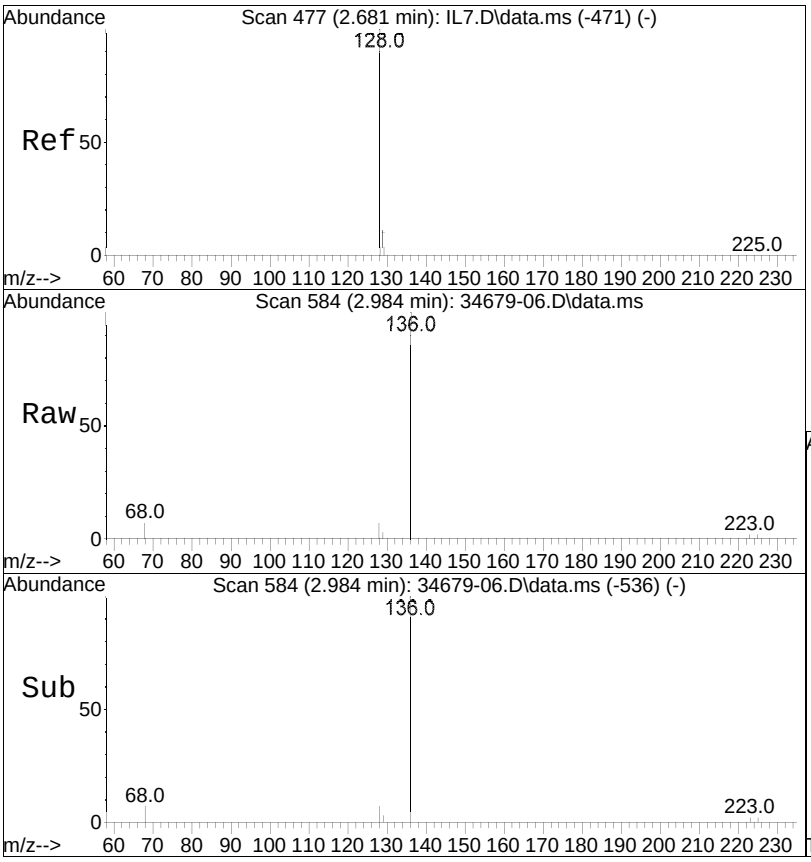
Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV128\240624\
Data File : 34679-06.D
Acq On : 24 Jun 2024 02:31 pm
Operator : SV128:jjw
Sample : L2434679-06,32,,jjw
Misc : WG1938533,WG1938280,ical20676
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jun 27 14:22:31 2024
Quant Method : I:\8270sim\sv128\240624\SIM-LVI_231211_sv128.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 24 11:39:29 2024
Response via : Initial Calibration

Sub List : DEFAULT - All compounds listedv0624.D•

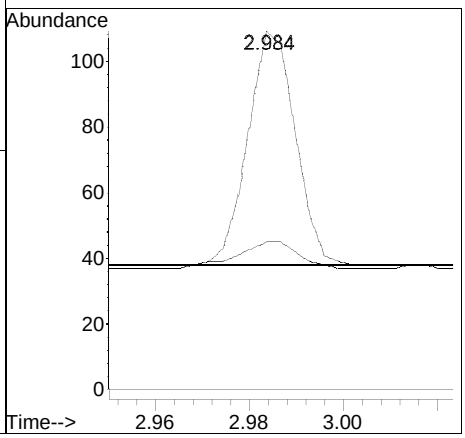


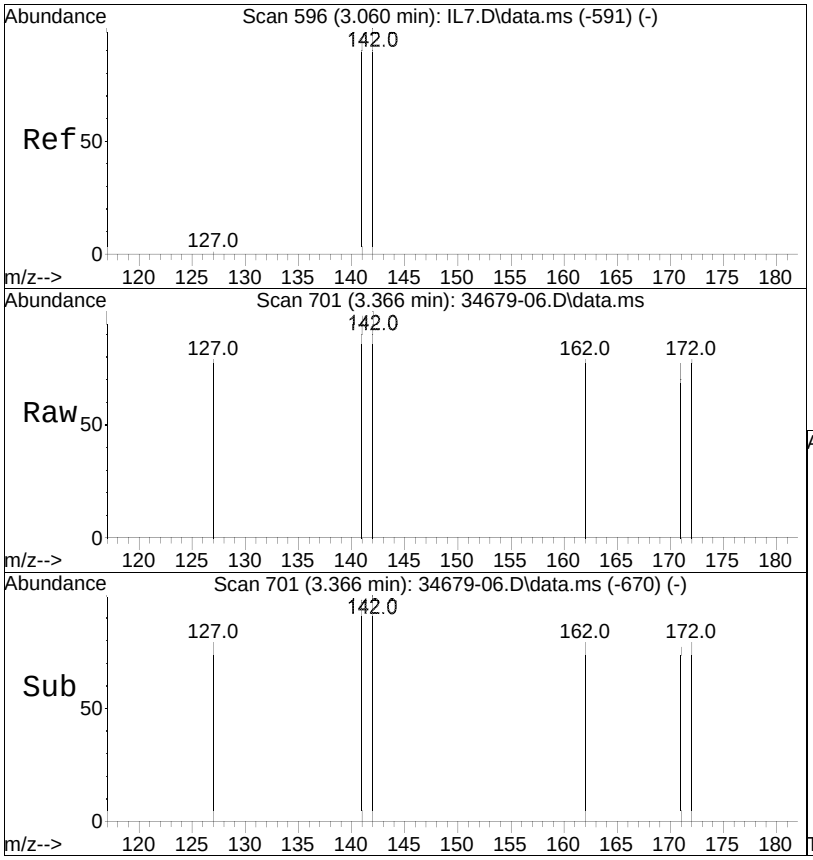


#9
Naphthalene
Concen: 15.57 ng/ml M7
RT: 2.984 min Scan# 584
Delta R.T. -0.003 min
Lab File: 34679-06.D
Acq: 24 Jun 2024 02:31 pm

Tgt Ion:128 Resp: 49

Ion	Ratio	Lower	Upper
128	100		
129	12.2	8.8	13.2
127	0.0	0.0	0.0

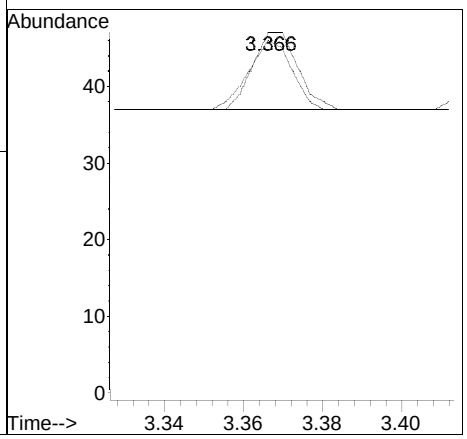


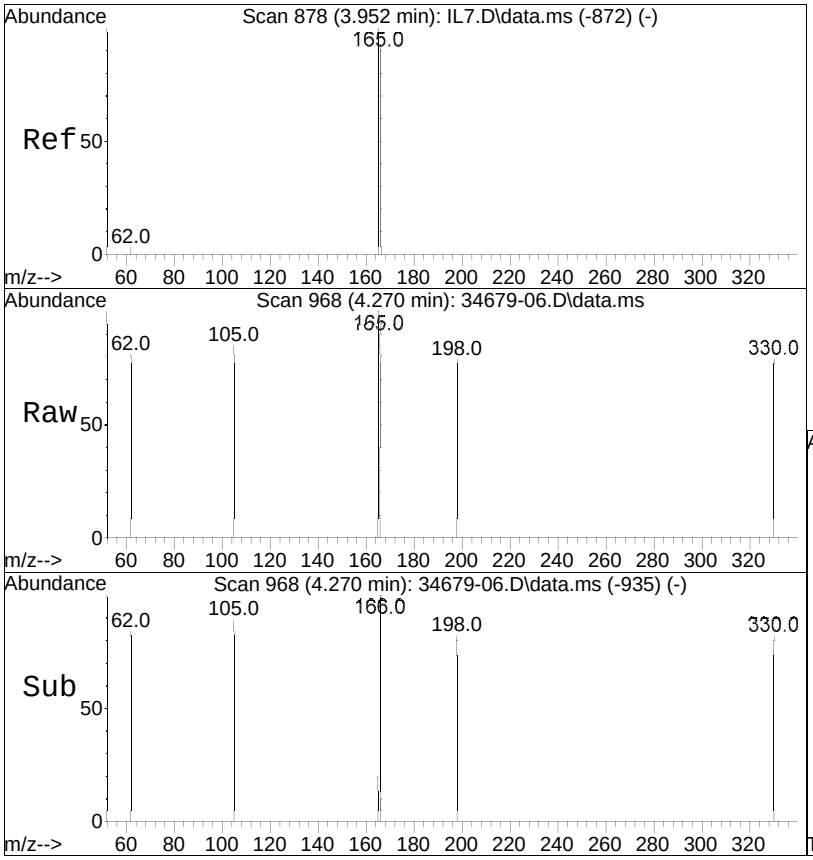


#11
2-Methylnaphthalene
Concen: 3.98 ng/ml M3
RT: 3.366 min Scan# 701
Delta R.T. -0.004 min
Lab File: 34679-06.D
Acq: 24 Jun 2024 02:31 pm

Tgt Ion:142 Resp: 8

Ion	Ratio	Lower	Upper
142	100		
141	87.5	75.9	113.9

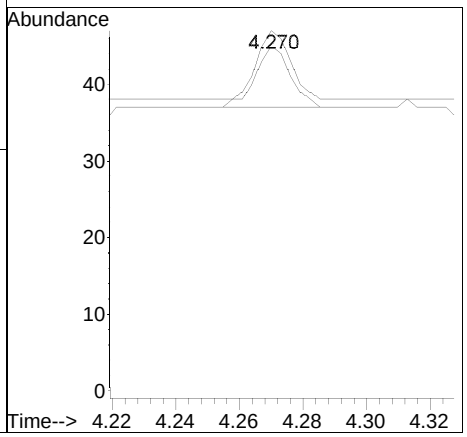


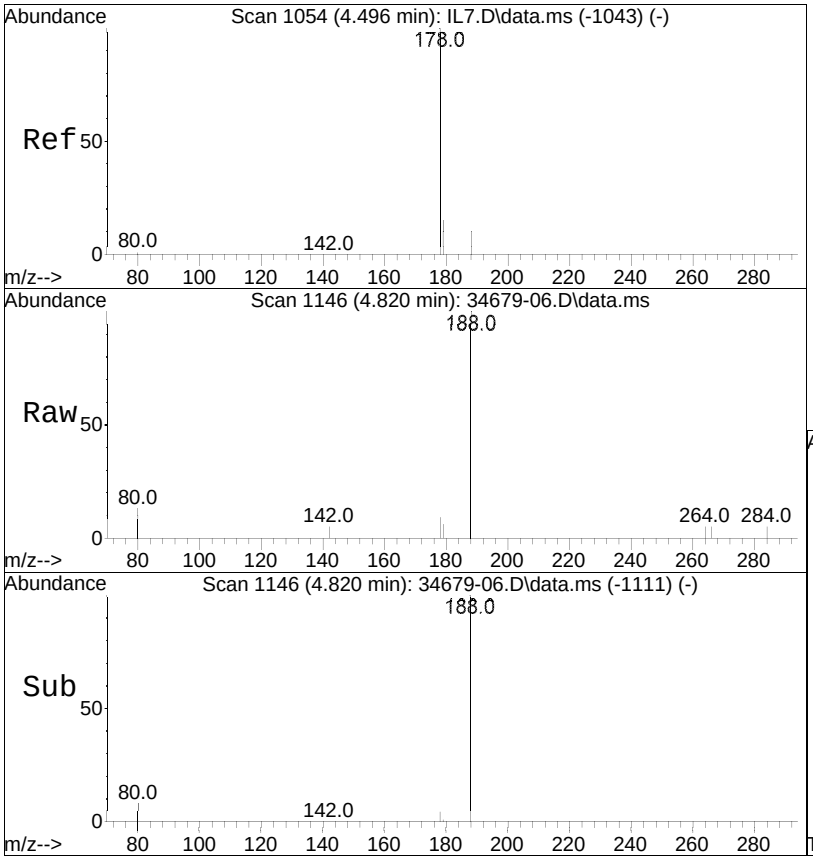


#20
Fluorene
Concen: 2.58 ng/ml M3
RT: 4.270 min Scan# 968
Delta R.T. -0.003 min
Lab File: 34679-06.D
Acq: 24 Jun 2024 02:31 pm

Tgt Ion:166 Resp: 6

Ion	Ratio	Lower	Upper
166	100		
165	116.7	85.7	128.5

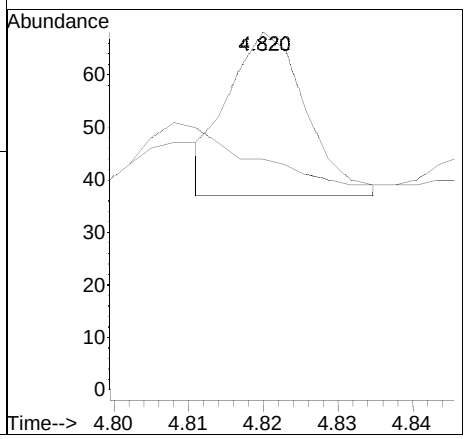


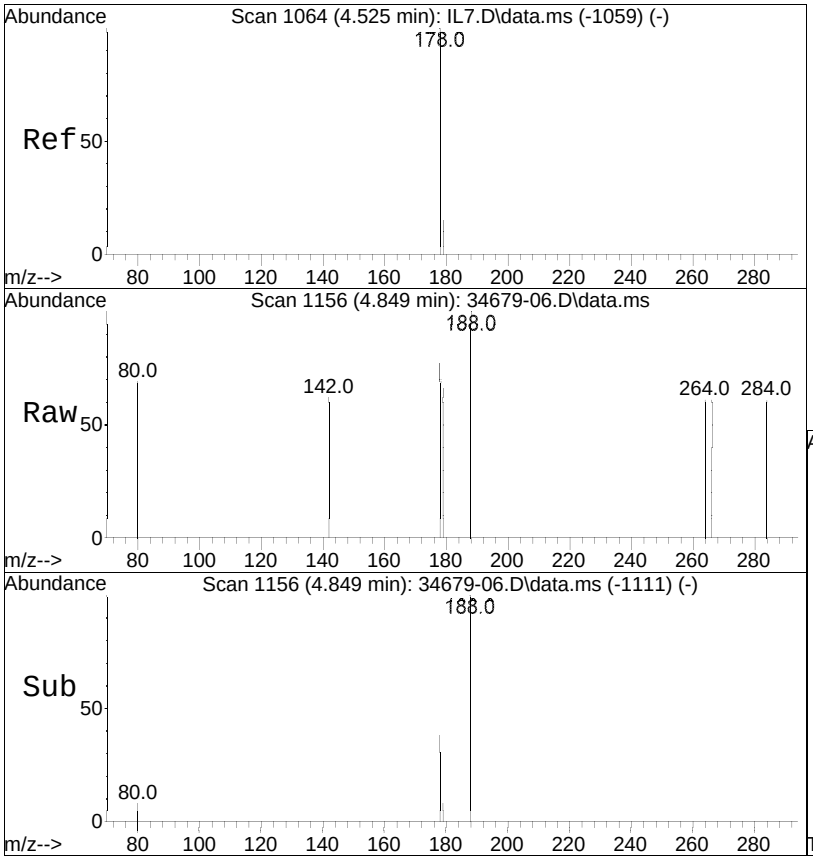


#26
Phenanthrene
Concen: 5.45 ng/ml M6
RT: 4.820 min Scan# 1146
Delta R.T. -0.003 min
Lab File: 34679-06.D
Acq: 24 Jun 2024 02:31 pm

Tgt Ion:178 Resp: 22

Ion	Ratio	Lower	Upper
178	100		
179	13.6	12.2	18.4

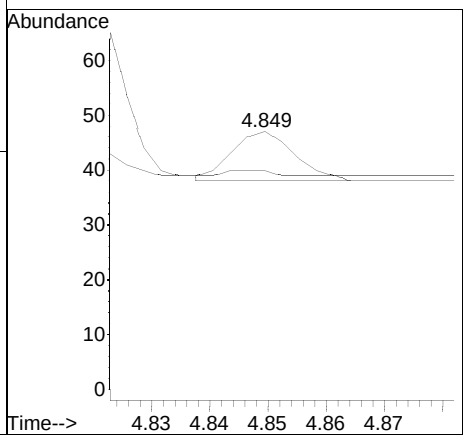


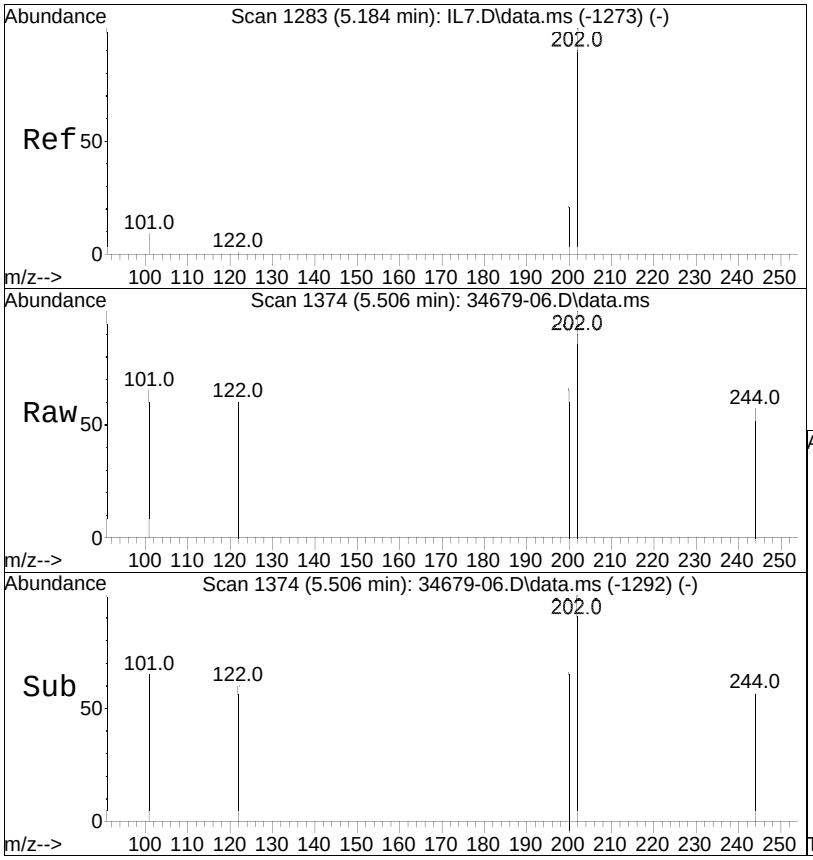


#27
Anthracene
Concen: 1.79 ng/ml M7
RT: 4.849 min Scan# 1156
Delta R.T. -0.003 min
Lab File: 34679-06.D
Acq: 24 Jun 2024 02:31 pm

Tgt Ion:178 Resp: 7

Ion	Ratio	Lower	Upper
178	100		
179	14.3	12.2	18.2

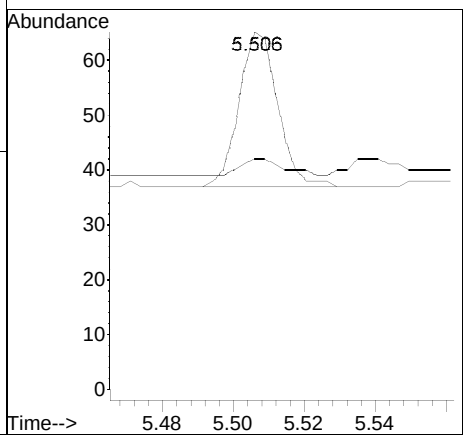


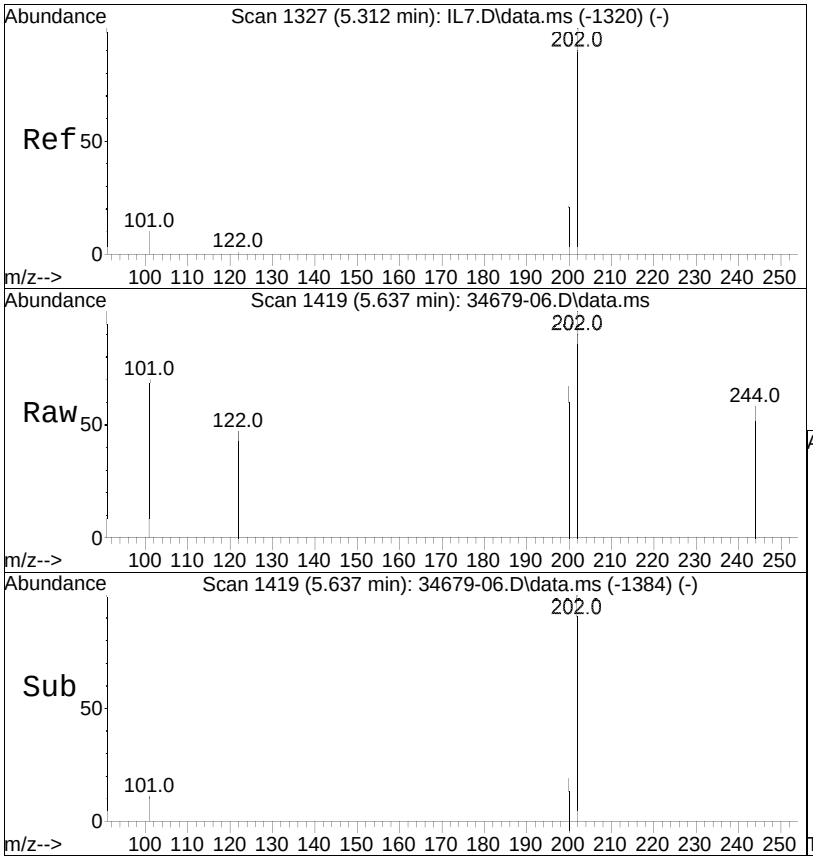


#28
Fluoranthene
Concen: 4.73 ng/ml M4
RT: 5.506 min Scan# 1374
Delta R.T. -0.003 min
Lab File: 34679-06.D
Acq: 24 Jun 2024 02:31 pm

Tgt Ion:202 Resp: 21

Ion	Ratio	Lower	Upper
202	100		
101	9.5	7.2	10.8

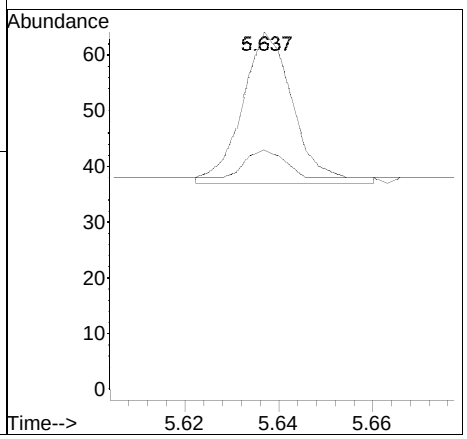


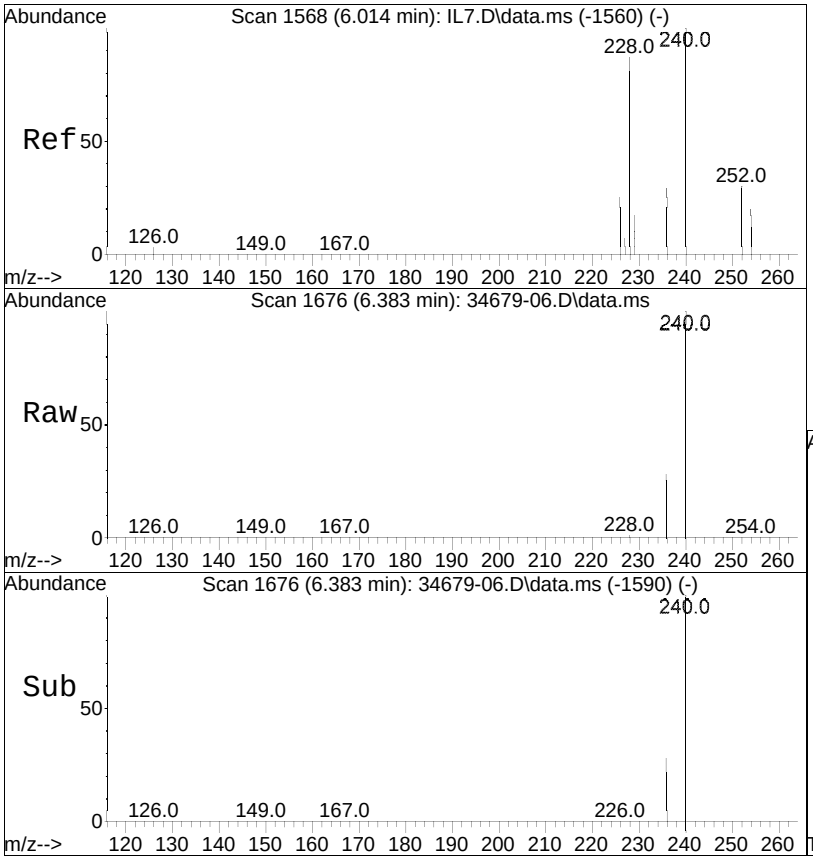


#29
Pyrene
Concen: 4.36 ng/ml M6
RT: 5.637 min Scan# 1419
Delta R.T. -0.003 min
Lab File: 34679-06.D
Acq: 24 Jun 2024 02:31 pm

Tgt Ion:202 Resp: 20

Ion	Ratio	Lower	Upper
202	100		
200	20.0	17.7	26.5

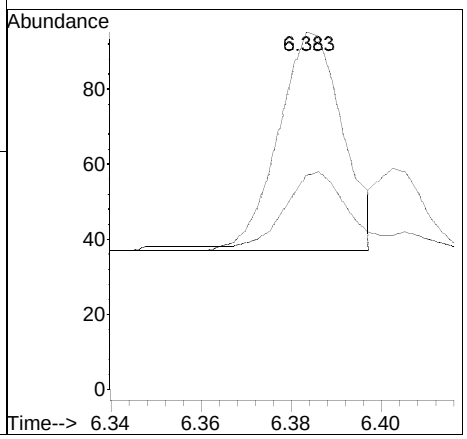


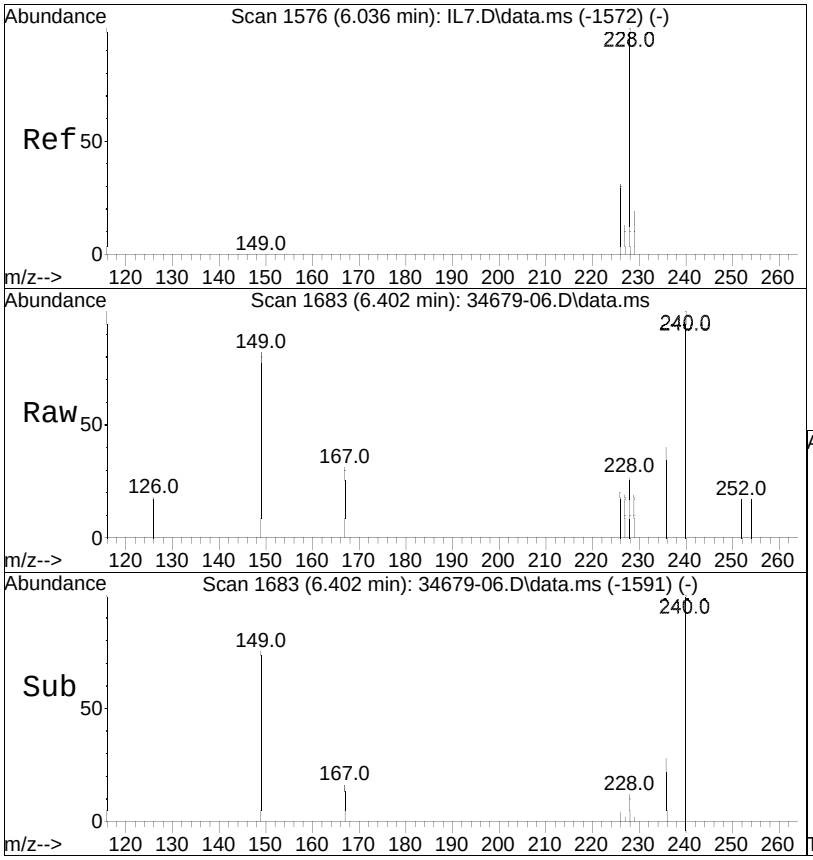


#32
Benzo[a]anthracene
Concen: 5.12 ng/ml
RT: 6.383 min Scan# 1676
Delta R.T. -0.003 min
Lab File: 34679-06.D
Acq: 24 Jun 2024 02:31 pm

Tgt Ion:228 Resp: 57

Ion	Ratio	Lower	Upper
228	100		
229	38.6	15.7	23.5#

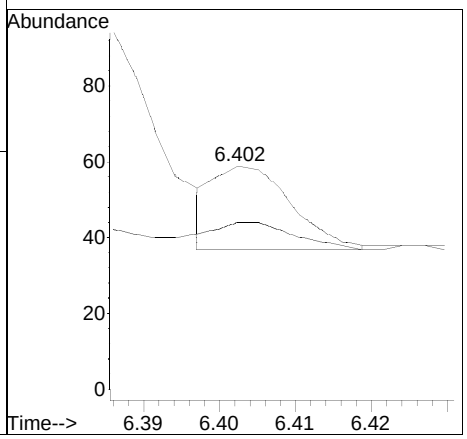


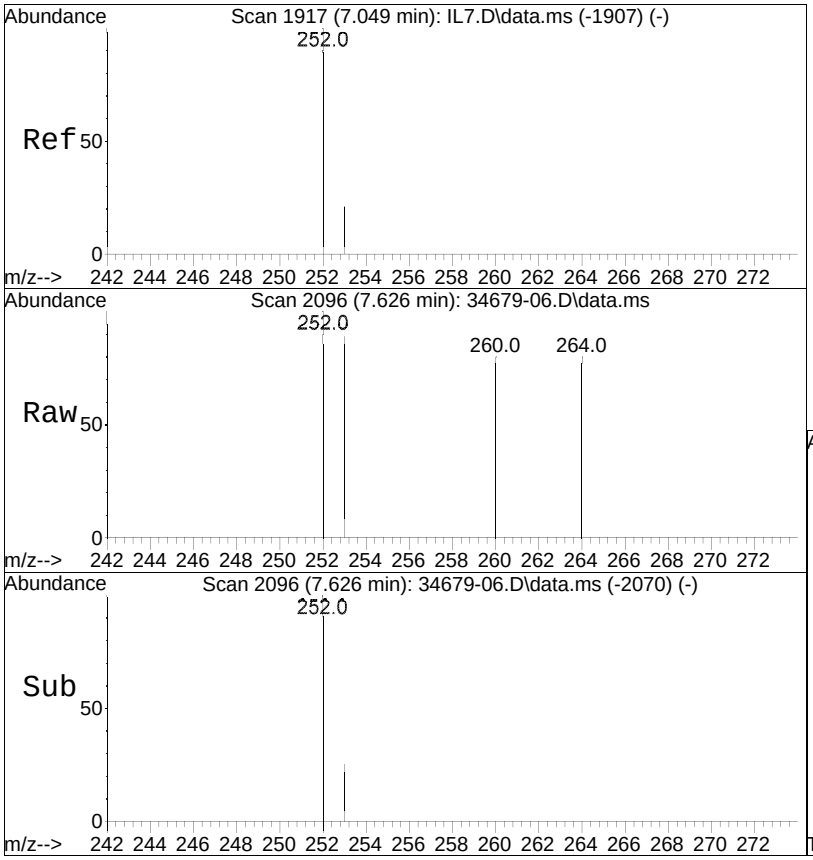


#34
Chrysene
Concen: 3.40 ng/ml M4
RT: 6.402 min Scan# 1683
Delta R.T. -0.008 min
Lab File: 34679-06.D
Acq: 24 Jun 2024 02:31 pm

Tgt Ion:228 Resp: 16

Ion	Ratio	Lower	Upper
228	100		
226	37.5	24.6	36.8#

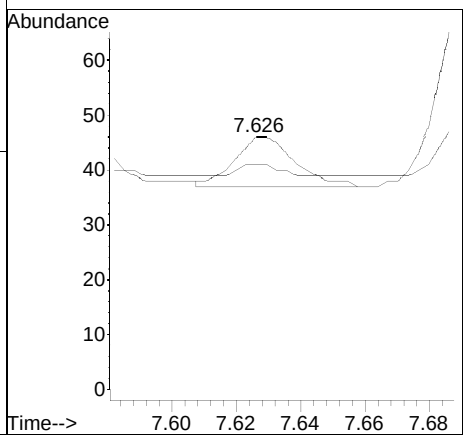


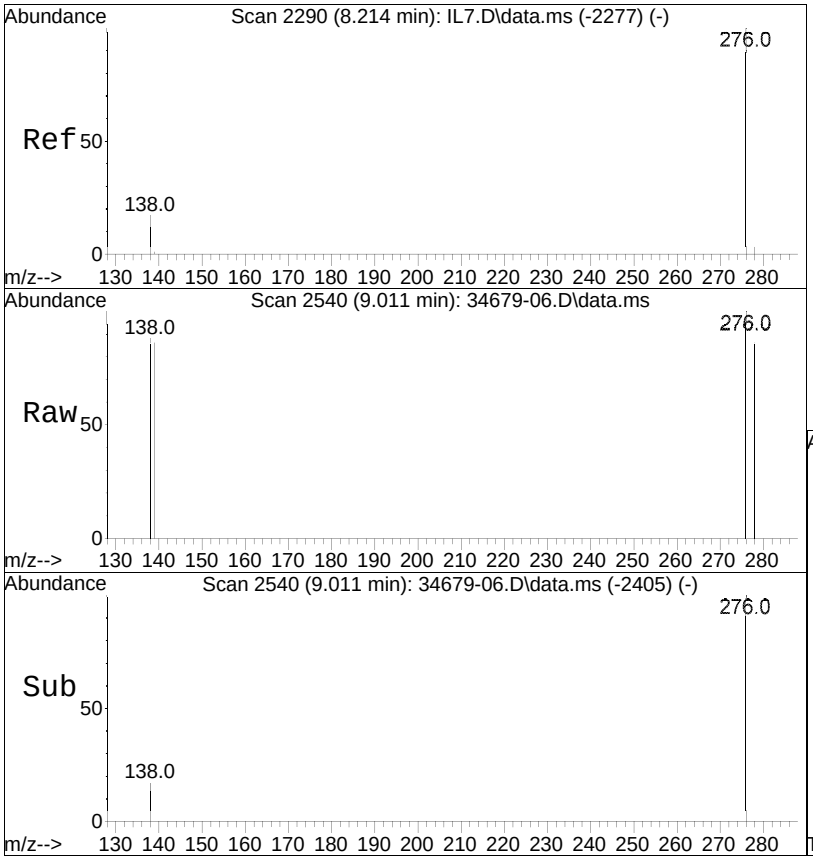


#39
Benzo[a]pyrene
Concen: 2.91 ng/ml M7
RT: 7.626 min Scan# 2096
Delta R.T. -0.019 min
Lab File: 34679-06.D
Acq: 24 Jun 2024 02:31 pm

Tgt Ion:252 Resp: 12

Ion	Ratio	Lower	Upper
252	100		
253	25.0	17.3	25.9

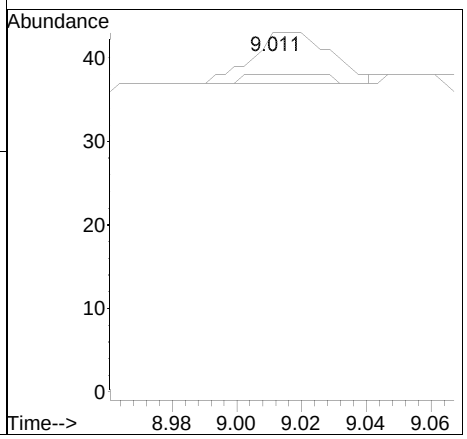


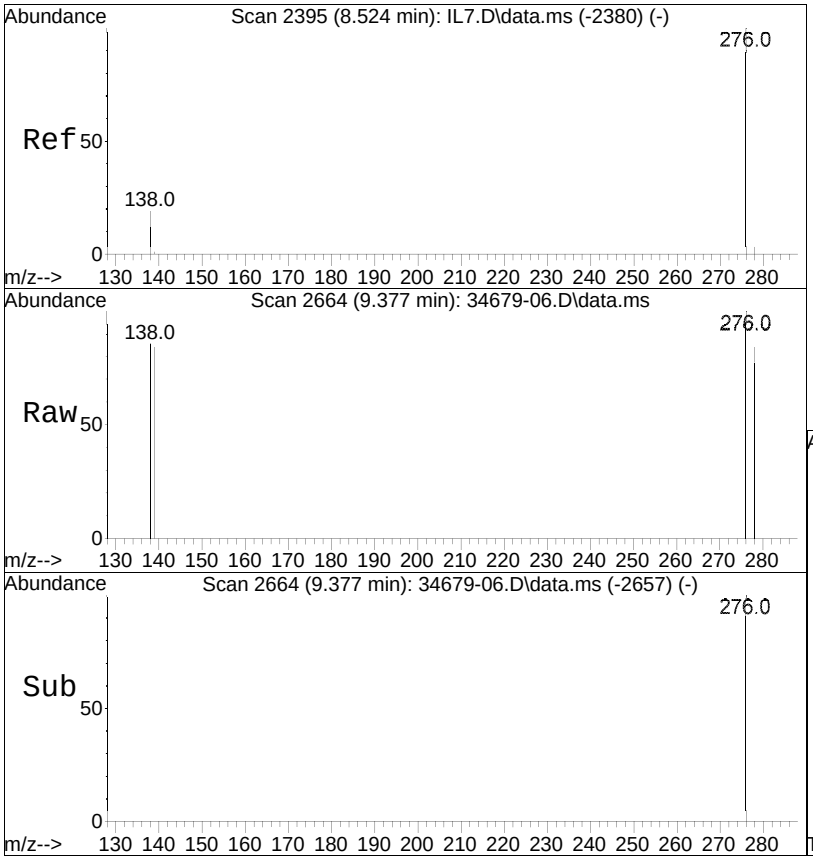


#40
Indeno[1,2,3-cd]pyrene
Concen: 2.42 ng/ml M7
RT: 9.011 min Scan# 2540
Delta R.T. -0.029 min
Lab File: 34679-06.D
Acq: 24 Jun 2024 02:31 pm

Tgt Ion:276 Resp: 10

Ion	Ratio	Lower	Upper
276	100		
138	20.0	13.4	20.2

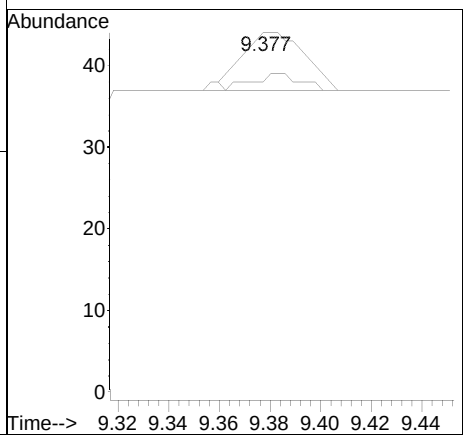




#42
Benzo[g,h,i]perylene
Concen: 2.80 ng/ml M7
RT: 9.377 min Scan# 2664
Delta R.T. -0.029 min
Lab File: 34679-06.D
Acq: 24 Jun 2024 02:31 pm

Tgt Ion:276 Resp: 12

Ion	Ratio	Lower	Upper
276	100		
138	25.0	14.8	22.2#

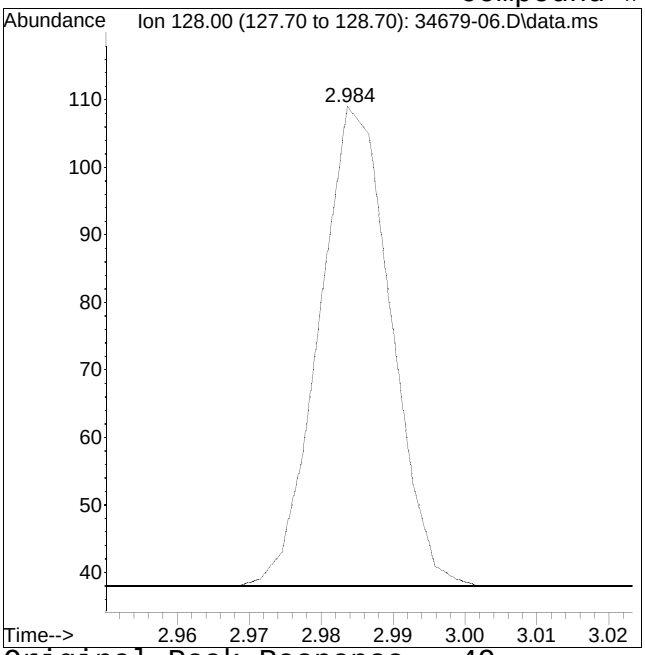


Manual Integration Report

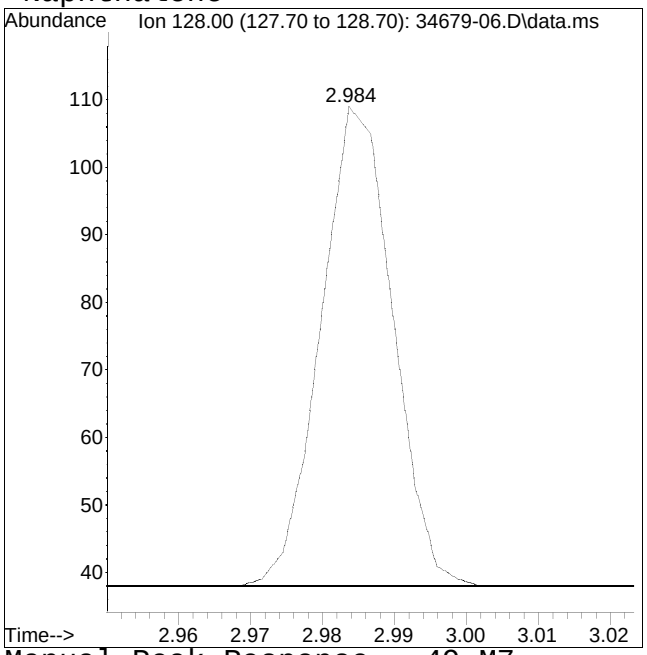
Data Path : I:\8270SIM\SV128\240624\
Data File : 34679-06.D
Date Inj'd : 6/24/2024 2:31 pm
Sample : L2434679-06,32,,jjw

QMethod : SIM-LVI_231211_sv128.M
Operator : SV128:jjw
Instrument : SV128
Quant Date : 6/24/2024 2:46 pm

Compound #9: Naphthalene



Original Peak Response = 49



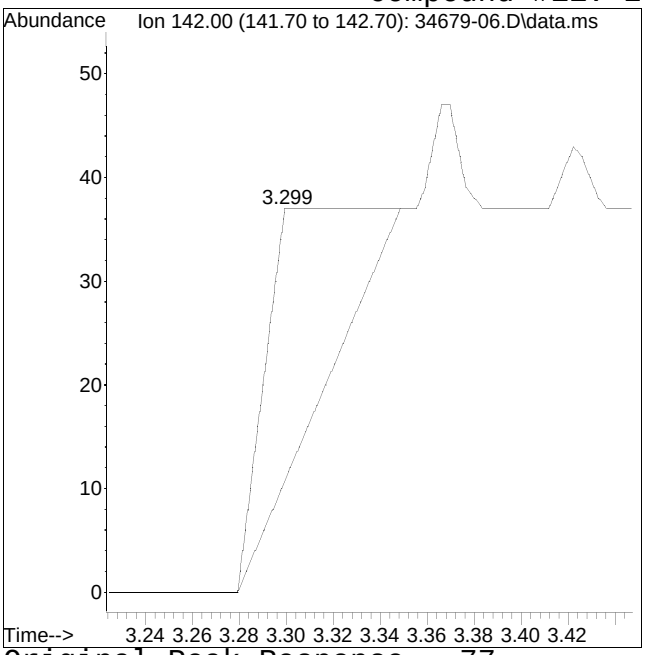
Manual Peak Response = 49 M7

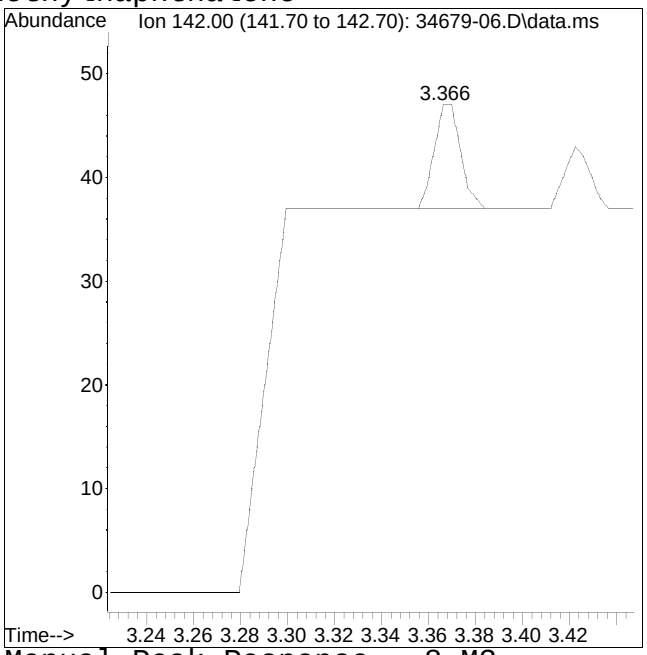
M7 = A qualifier ion was manually integrated (only for GC/MS data).

Manual Integration Report

Data Path : I:\8270SIM\SV128\240624\ QMethod : SIM-LVI_231211_sv128.M
Data File : 34679-06.D Operator : SV128:jjw
Date Inj'd : 6/24/2024 2:31 pm Instrument : SV128
Sample : L2434679-06,32,,jjw Quant Date : 6/24/2024 2:46 pm

Compound #11: 2-Methylnaphthalene





Original Peak Response = 77 Manual Peak Response = 8 M3

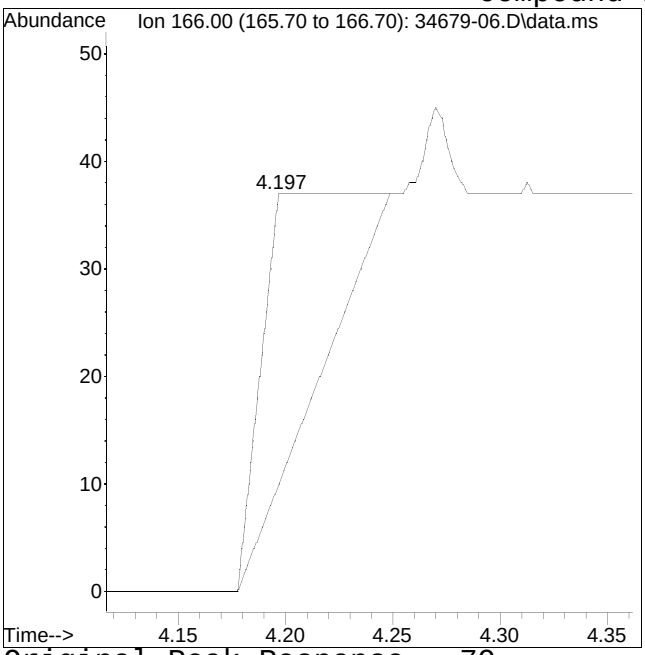
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

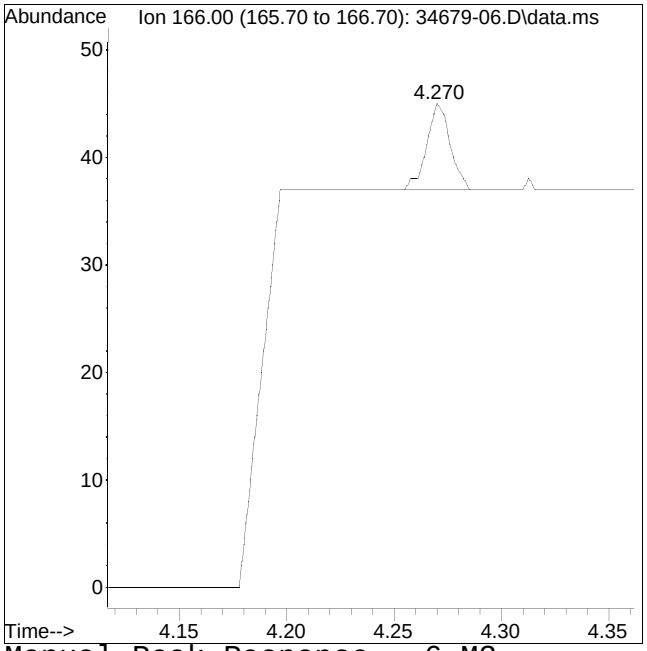
Data Path : I:\8270SIM\SV128\240624\
Data File : 34679-06.D
Date Inj'd : 6/24/2024 2:31 pm
Sample : L2434679-06,32,,jjw

QMethod : SIM-LVI_231211_sv128.M
Operator : SV128:jjw
Instrument : SV128
Quant Date : 6/24/2024 2:46 pm

Compound #20: Fluorene



Original Peak Response = 79



Manual Peak Response = 6 M3

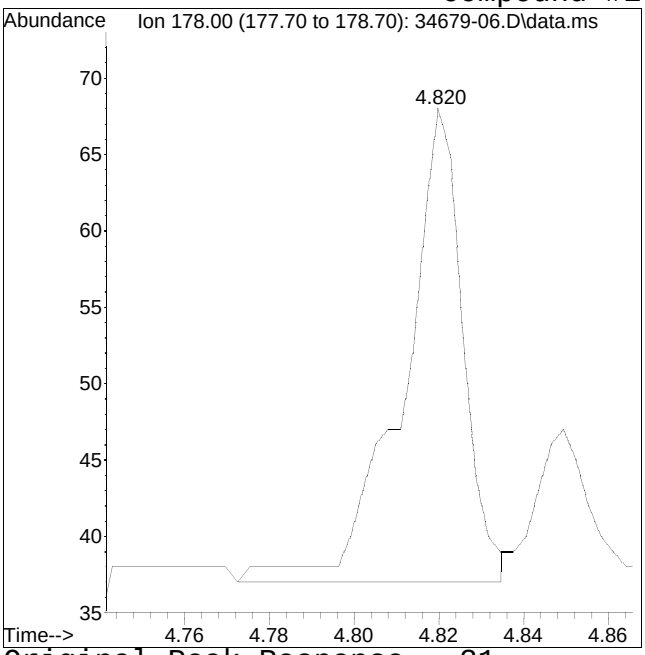
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

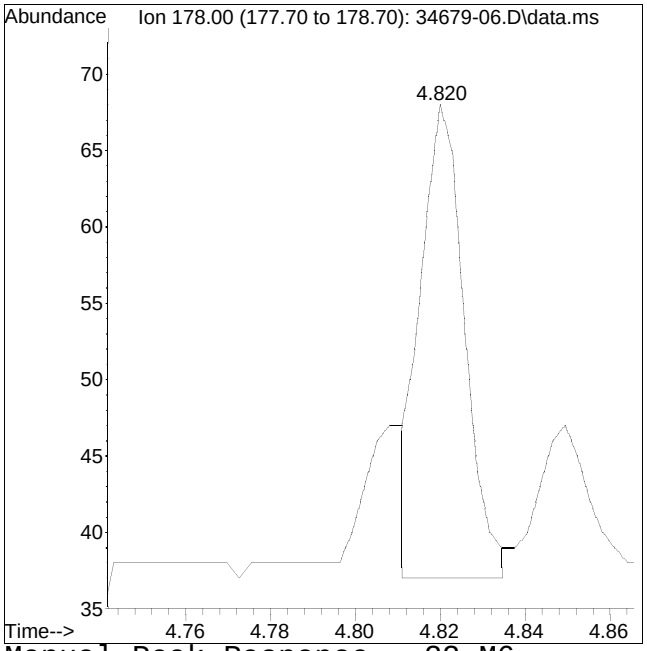
Data Path : I:\8270SIM\SV128\240624\
Data File : 34679-06.D
Date Inj'd : 6/24/2024 2:31 pm
Sample : L2434679-06,32,,jjw

QMethod : SIM-LVI_231211_sv128.M
Operator : SV128:jjw
Instrument : SV128
Quant Date : 6/24/2024 2:46 pm

Compound #26: Phenanthrene



Original Peak Response = 31



Manual Peak Response = 22 M6

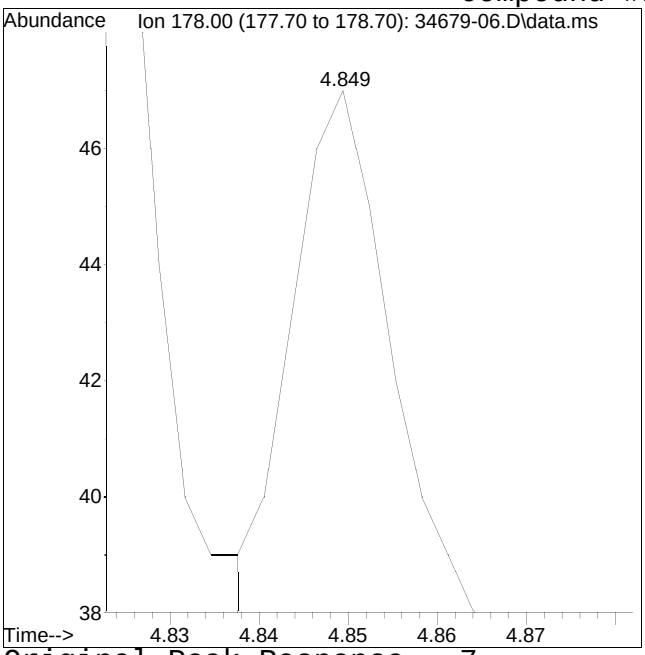
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

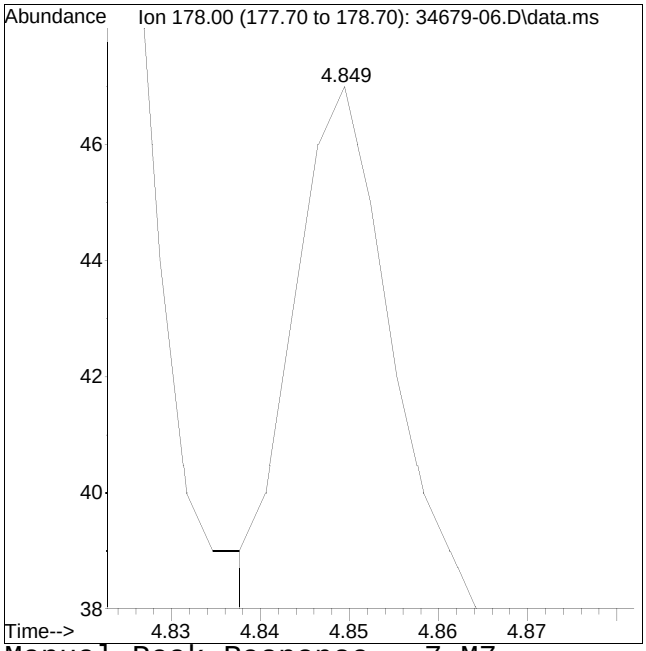
Data Path : I:\8270SIM\SV128\240624\
Data File : 34679-06.D
Date Inj'd : 6/24/2024 2:31 pm
Sample : L2434679-06,32,,jjw

QMethod : SIM-LVI_231211_sv128.M
Operator : SV128:jjw
Instrument : SV128
Quant Date : 6/24/2024 2:46 pm

Compound #27: Anthracene



Original Peak Response = 7



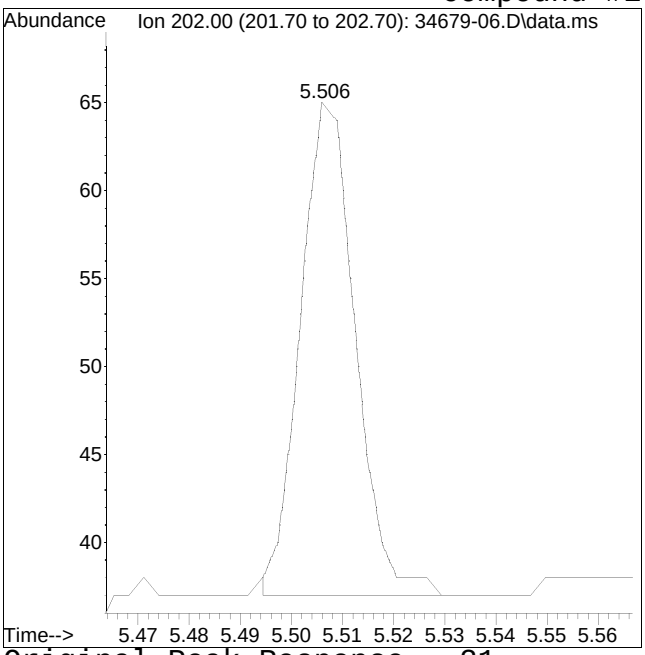
Manual Peak Response = 7 M7

M7 = A qualifier ion was manually integrated (only for GC/MS data).

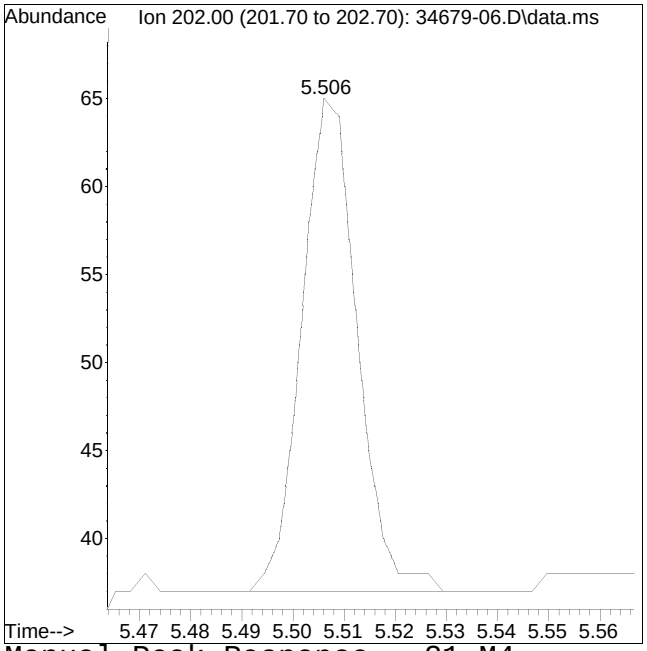
Manual Integration Report

Data Path : I:\8270SIM\SV128\240624\ QMethod : SIM-LVI_231211_sv128.M
Data File : 34679-06.D Operator : SV128:jjw
Date Inj'd : 6/24/2024 2:31 pm Instrument : SV128
Sample : L2434679-06,32,,jjw Quant Date : 6/24/2024 2:46 pm

Compound #28: Fluoranthene



Original Peak Response = 21



Manual Peak Response = 21 M4

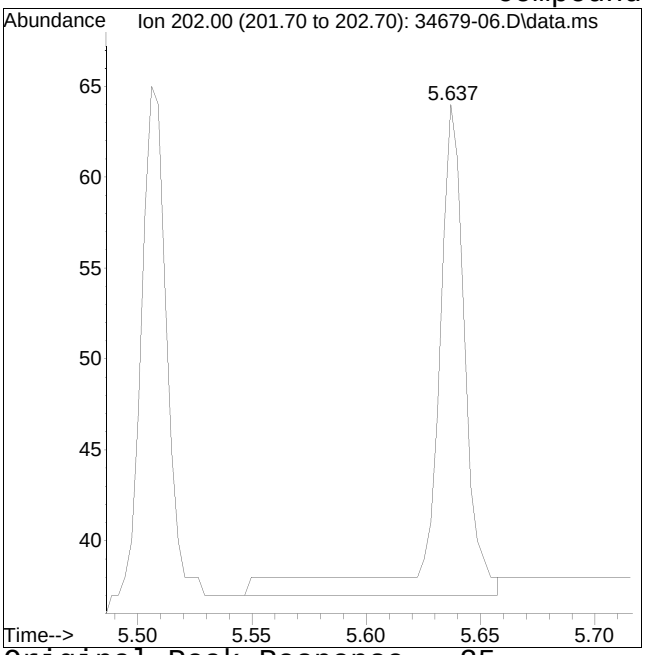
M4 = Poor automated baseline construction.

Manual Integration Report

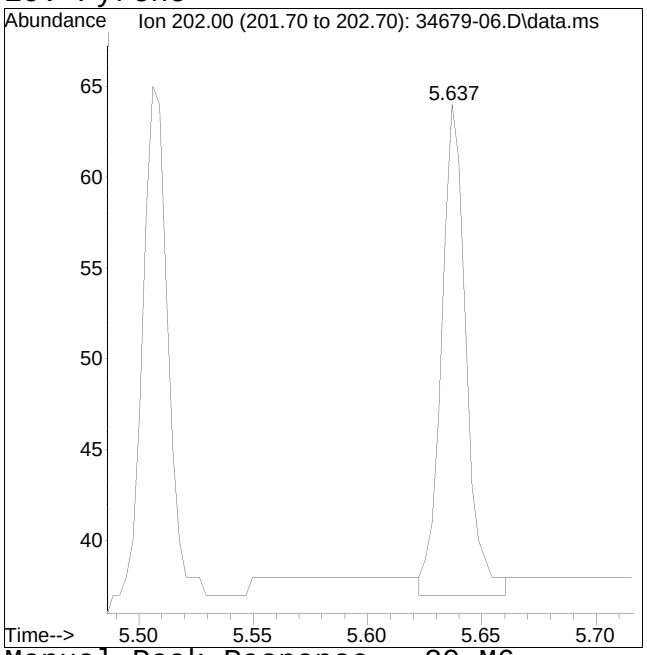
Data Path : I:\8270SIM\SV128\240624\
Data File : 34679-06.D
Date Inj'd : 6/24/2024 2:31 pm
Sample : L2434679-06,32,,jjw

QMethod : SIM-LVI_231211_sv128.M
Operator : SV128:jjw
Instrument : SV128
Quant Date : 6/24/2024 2:46 pm

Compound #29: Pyrene



Original Peak Response = 25



Manual Peak Response = 20 M6

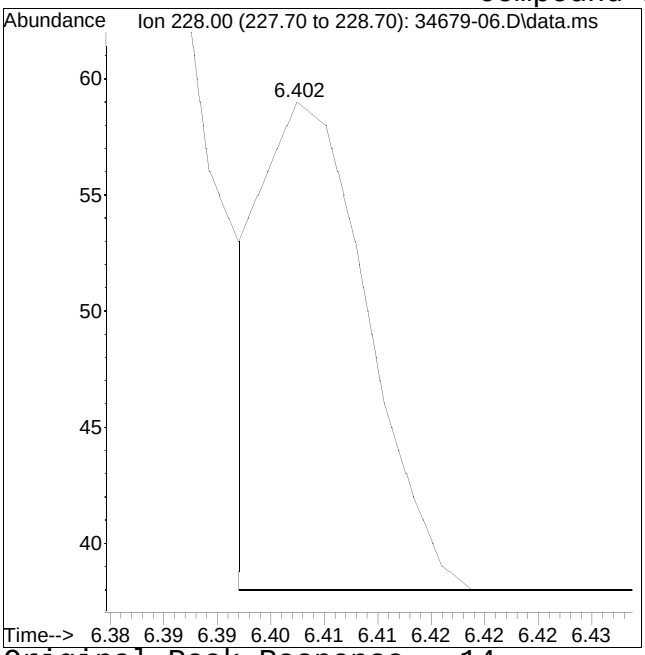
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

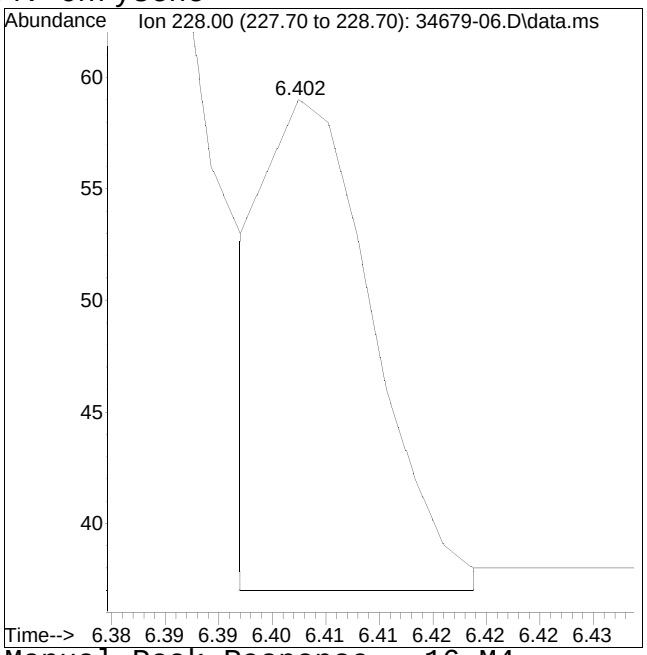
Data Path : I:\8270SIM\SV128\240624\
Data File : 34679-06.D
Date Inj'd : 6/24/2024 2:31 pm
Sample : L2434679-06,32,,jjw

QMethod : SIM-LVI_231211_sv128.M
Operator : SV128:jjw
Instrument : SV128
Quant Date : 6/24/2024 2:46 pm

Compound #34: Chrysene



Original Peak Response = 14



Manual Peak Response = 16 M4

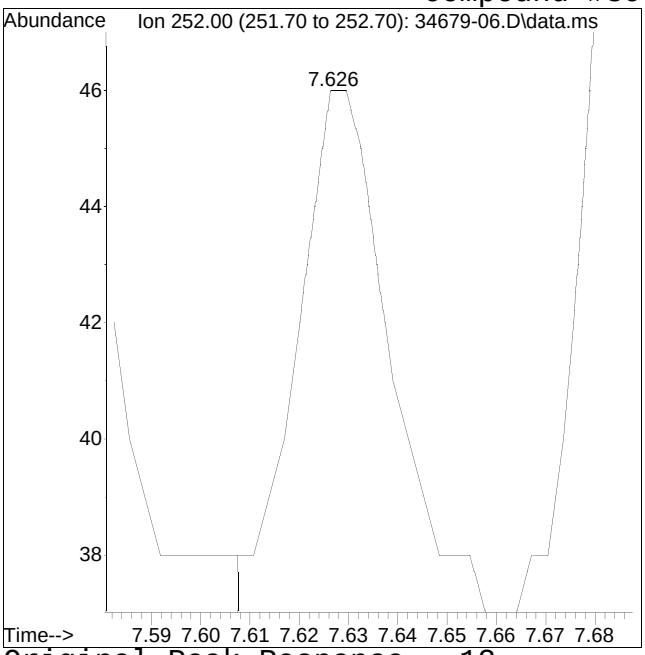
M4 = Poor automated baseline construction.

Manual Integration Report

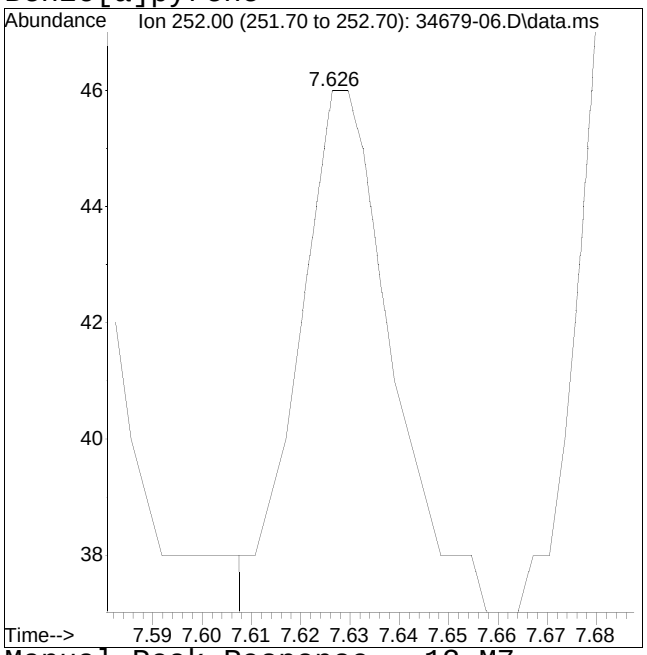
Data Path : I:\8270SIM\SV128\240624\
Data File : 34679-06.D
Date Inj'd : 6/24/2024 2:31 pm
Sample : L2434679-06,32,,jjw

QMethod : SIM-LVI_231211_sv128.M
Operator : SV128:jjw
Instrument : SV128
Quant Date : 6/24/2024 2:46 pm

Compound #39: Benzo[a]pyrene



Original Peak Response = 12



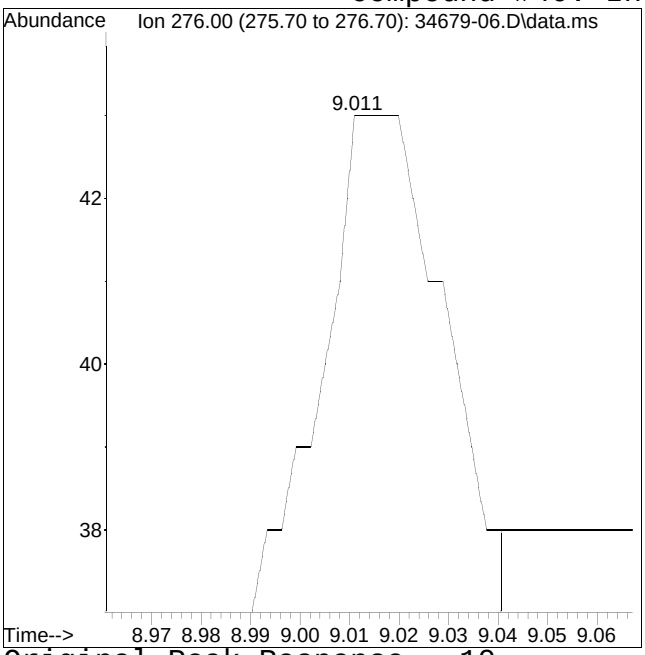
Manual Peak Response = 12 M7

M7 = A qualifier ion was manually integrated (only for GC/MS data).

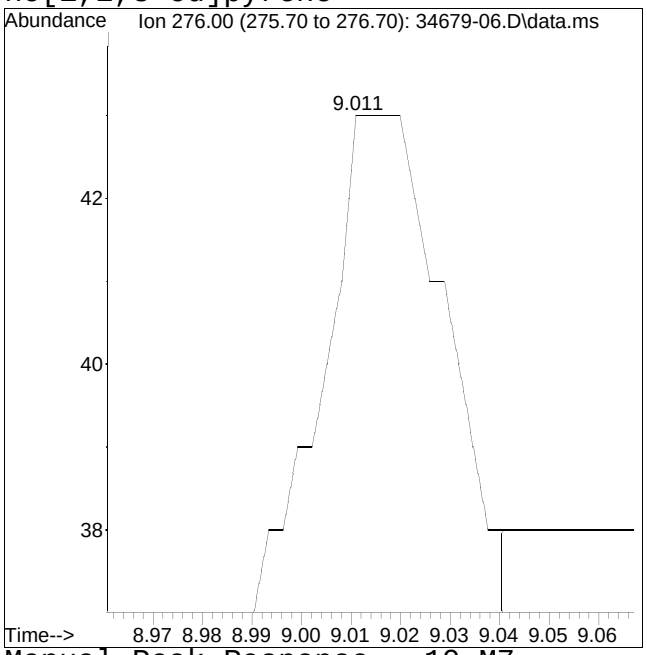
Manual Integration Report

Data Path : I:\8270SIM\SV128\240624\ QMethod : SIM-LVI_231211_sv128.M
Data File : 34679-06.D Operator : SV128:jjw
Date Inj'd : 6/24/2024 2:31 pm Instrument : SV128
Sample : L2434679-06,32,,jjw Quant Date : 6/24/2024 2:46 pm

Compound #40: Indeno[1,2,3-cd]pyrene



Original Peak Response = 10



Manual Peak Response = 10 M7

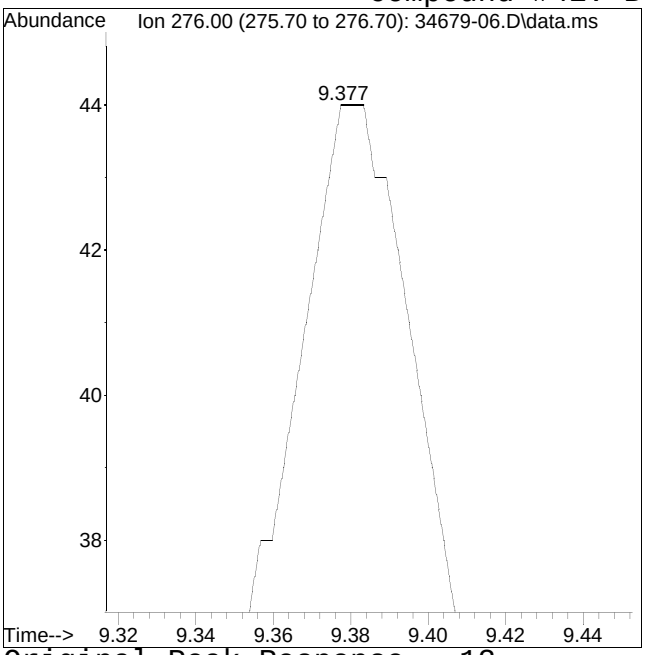
M7 = A qualifier ion was manually integrated (only for GC/MS data).

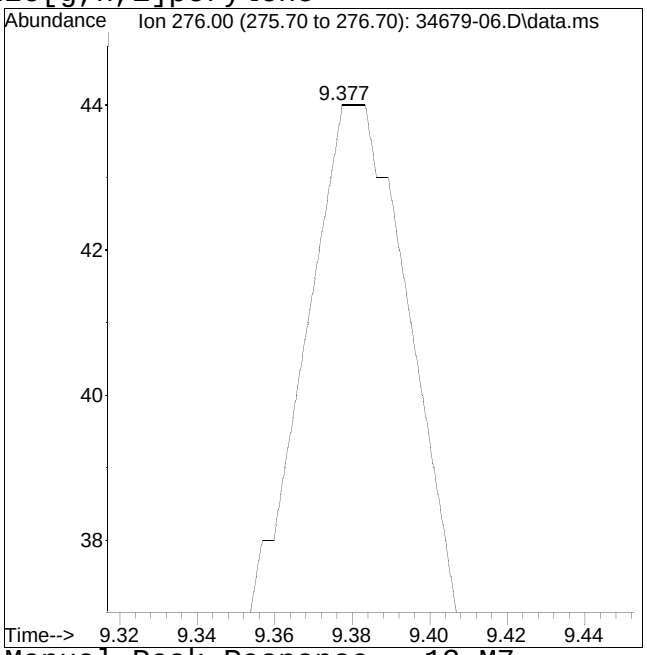
Manual Integration Report

Data Path : I:\8270SIM\SV128\240624\
Data File : 34679-06.D
Date Inj'd : 6/24/2024 2:31 pm
Sample : L2434679-06,32,,jjw

QMethod : SIM-LVI_231211_sv128.M
Operator : SV128:jjw
Instrument : SV128
Quant Date : 6/24/2024 2:46 pm

Compound #42: Benzo[g,h,i]perylene





Original Peak Response = 12 Manual Peak Response = 12 M7

M7 = A qualifier ion was manually integrated (only for GC/MS data).

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV128\240624\
Data File : 34679-07.D
Acq On : 24 Jun 2024 02:48 pm
Operator : SV128:jjw
Sample : L2434679-07,32,,jjw
Misc : WG1938533,WG1938280,ical20676
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jun 27 14:24:57 2024
Quant Method : I:\8270sim\sv128\240624\SIM-LVI_231211_sv128.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 24 11:39:29 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270sim\sv128\240624\ccv0624.D
Sub List : DEFAULT - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.304	152	3663	4000.000	ng/ml	0.00
Standard Area 1 = 4069			Recovery = 90.02%			
8) Naphthalene-d8	2.973	136	12644	4000.000	ng/ml	0.00
Standard Area 1 = 14375			Recovery = 87.96%			
17) Acenaphthene-d10	3.959	164	6955	4000.000	ng/ml	0.00
Standard Area 1 = 8180			Recovery = 85.02%			
22) Phenanthrene-d10	4.808	188	15161	4000.000	ng/ml	# 0.00
Standard Area 1 = 17962			Recovery = 84.41%			
31) Chrysene-d12	6.386	240	13577	4000.000	ng/ml	0.00
Standard Area 1 = 16460			Recovery = 82.48%			
36) Perylene-d12	7.696	264	14421	4000.000	ng/ml	-0.02
Standard Area 1 = 18271			Recovery = 78.93%			
System Monitoring Compounds						
2) 2-Fluorophenol	1.695	112	3606	3909.350	ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 78.19%			
3) Phenol-d6	2.107	99	3743	3472.175	ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 69.44%			
7) Nitrobenzene-d5	2.585	82	2296	2635.513	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 105.42%			
13) 2-Fluorobiphenyl	3.575	172	5572	2077.999	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 83.12%			
21) 2,4,6-Tribromophenol	4.408	330	1637	4710.084	ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 94.20%			
30) 4-Terphenyl-d14	5.727	244	7250	2295.332	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 91.81%			
Target Compounds						Qvalue
6) Hexachloroethane	0.000		0	N.D.	d	
9) Naphthalene	2.985	128	27M1	8.327	ng/ml	
10) Hexachlorobutadiene	0.000		0	N.D.		
11) 2-Methylnaphthalene	0.000		0	N.D.	d	
14) 2-Chloronaphthalene	0.000		0	N.D.		
16) Acenaphthylene	0.000		0	N.D.	d	
18) Acenaphthene	0.000		0	N.D.		
20) Fluorene	0.000		0	N.D.	d	
24) Hexachlorobenzene	0.000		0	N.D.	d	
25) Pentachlorophenol	0.000		0	N.D.		

Data Path : I:\8270SIM\SV128\240624\
Data File : 34679-07.D
Acq On : 24 Jun 2024 02:48 pm
Operator : SV128:jjw
Sample : L2434679-07,32,,jjw
Misc : WG1938533,WG1938280,ical20676
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jun 27 14:24:57 2024
Quant Method : I:\8270sim\sv128\240624\SIM-LVI_231211_sv128.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 24 11:39:29 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270sim\sv128\240624\ccv0624.D
Sub List : DEFAULT - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
26) Phenanthrene	4.820	178	16M6	3.903	ng/ml	
27) Anthracene	0.000		0	N.D.	d	
28) Fluoranthene	5.506	202	17M4	3.774	ng/ml	
29) Pyrene	5.637	202	16M6	3.433	ng/ml	
32) Benzo[a]anthracene	6.386	228	59M1	5.588	ng/ml	
34) Chrysene	6.405	228	13M3	2.777	ng/ml	
37) Benzo[b]fluoranthene	7.294	252	11M7	2.463	ng/ml	
38) Benzo[k]fluoranthene	7.316	252	8M7	1.925	ng/ml	
39) Benzo[a]pyrene	7.630	252	9M7	2.289	ng/ml	
40) Indeno[1,2,3-cd]pyrene	9.017	276	8M7	2.034	ng/ml	
41) Dibenzo[a,h]anthracene	0.000		0	N.D.	d	
42) Benzo[g,h,i]perylene	9.380	276	10M7	2.447	ng/ml	

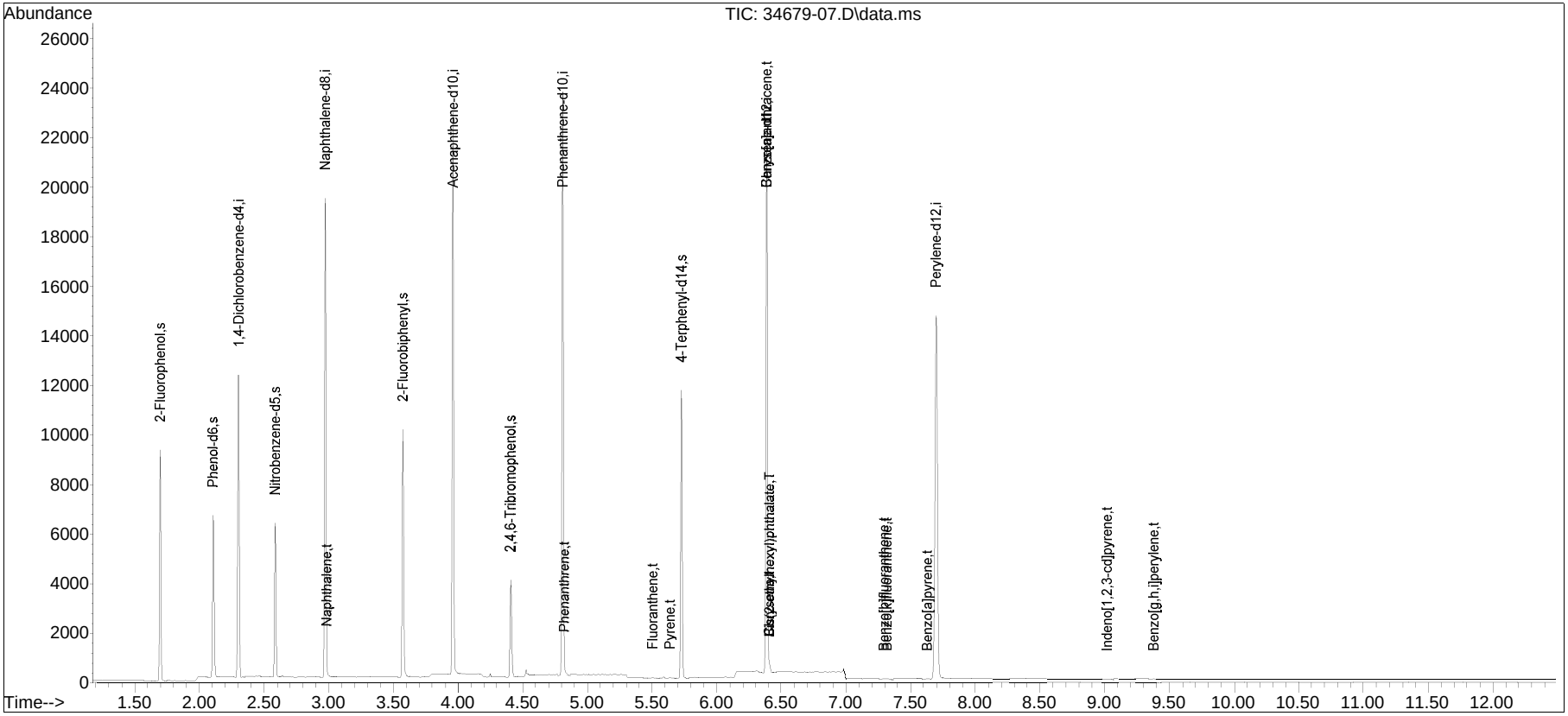
(#) = qualifier out of range (m) = manual integration (+) = signals summed

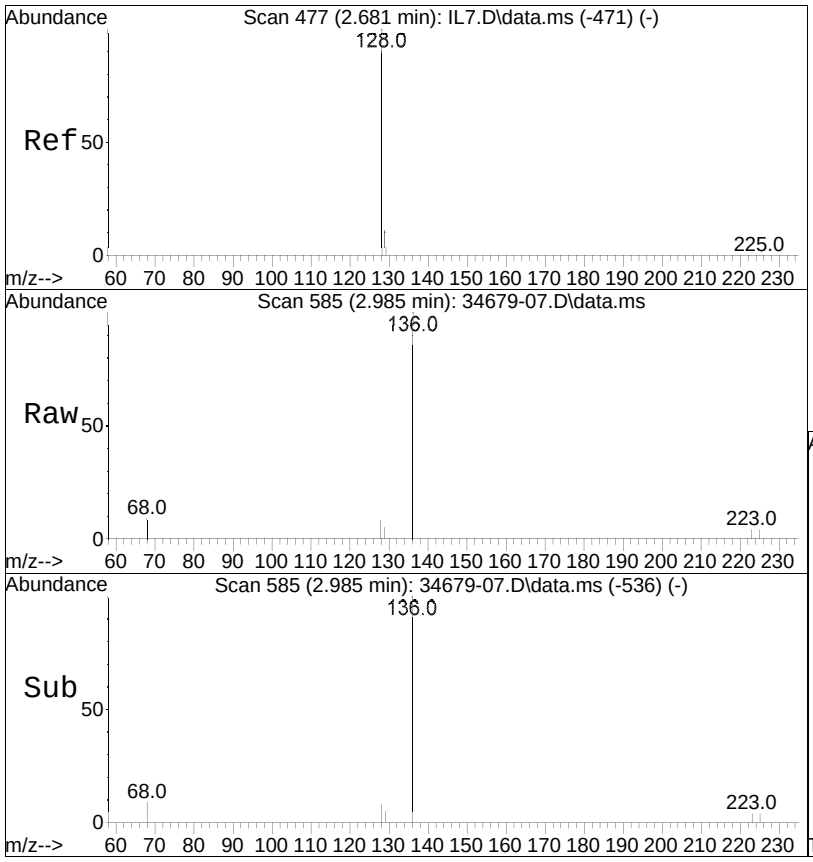
Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV128\240624\
Data File : 34679-07.D
Acq On : 24 Jun 2024 02:48 pm
Operator : SV128:jjw
Sample : L2434679-07,32,,jjw
Misc : WG1938533,WG1938280,ical20676
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jun 27 14:24:57 2024
Quant Method : I:\8270sim\sv128\240624\SIM-LVI_231211_sv128.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 24 11:39:29 2024
Response via : Initial Calibration

Sub List : DEFAULT - All compounds listedv0624.D•

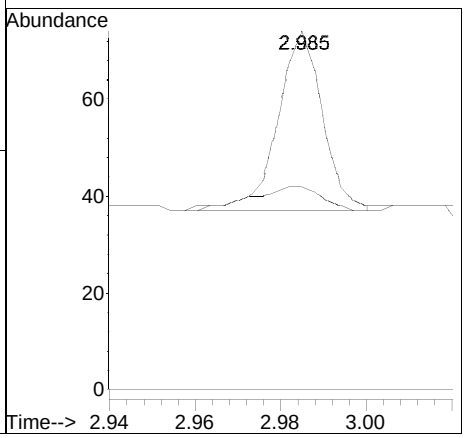


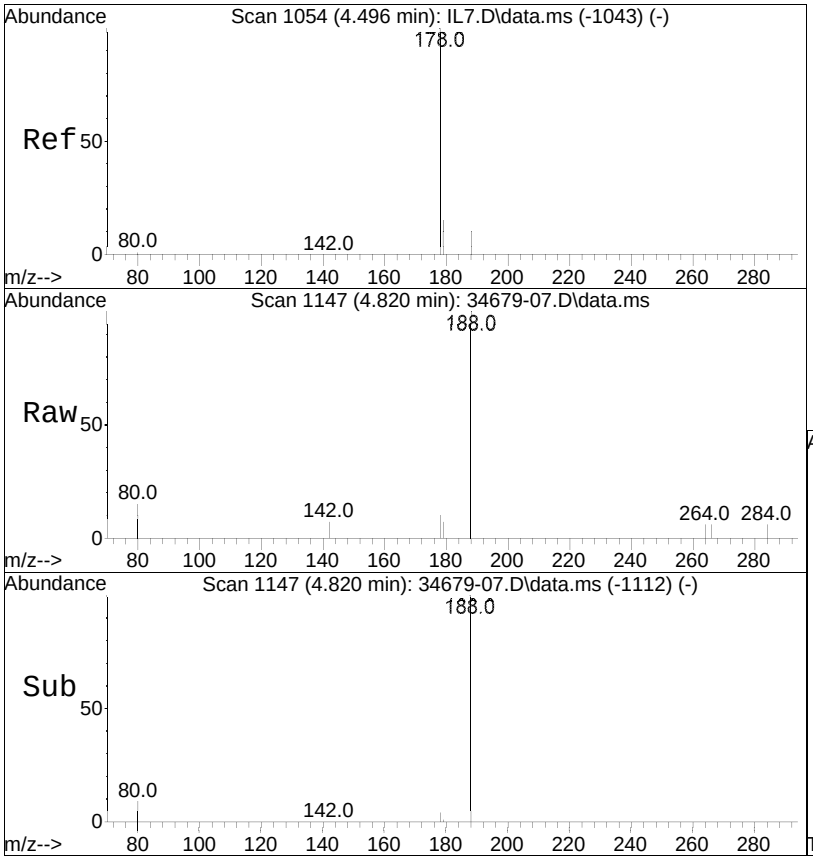


#9
Naphthalene
Concen: 8.33 ng/ml M1
RT: 2.985 min Scan# 585
Delta R.T. -0.002 min
Lab File: 34679-07.D
Acq: 24 Jun 2024 02:48 pm

Tgt Ion:128 Resp: 27

Ion	Ratio	Lower	Upper
128	100		
129	18.5	8.8	13.2#
127	0.0	0.0	0.0

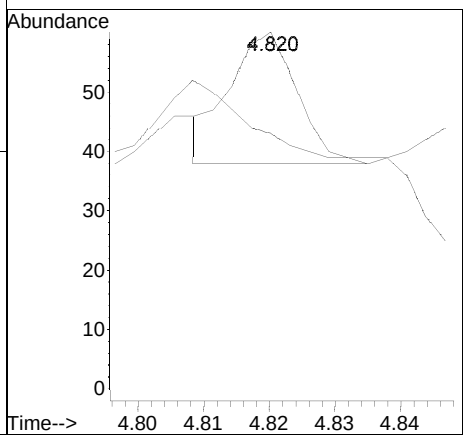


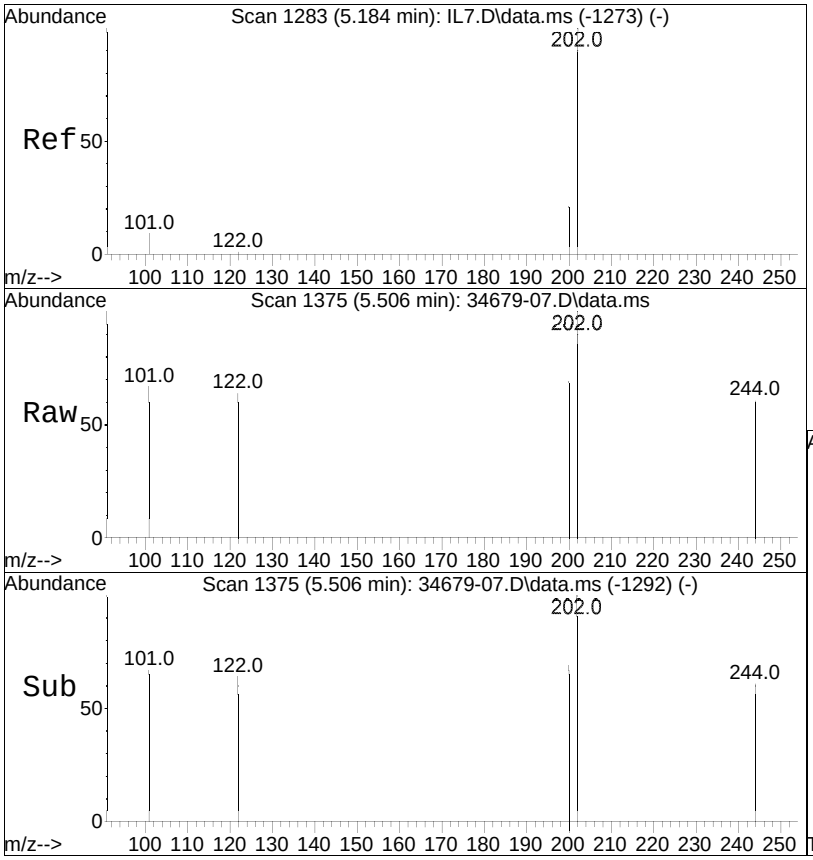


#26
Phenanthrene
Concen: 3.90 ng/ml M6
RT: 4.820 min Scan# 1147
Delta R.T. -0.003 min
Lab File: 34679-07.D
Acq: 24 Jun 2024 02:48 pm

Tgt Ion:178 Resp: 16

Ion	Ratio	Lower	Upper
178	100		
179	18.8	12.2	18.4#

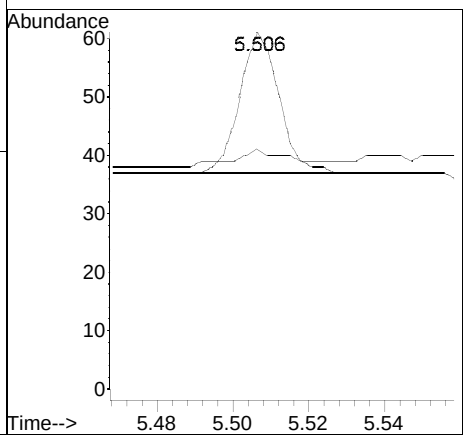


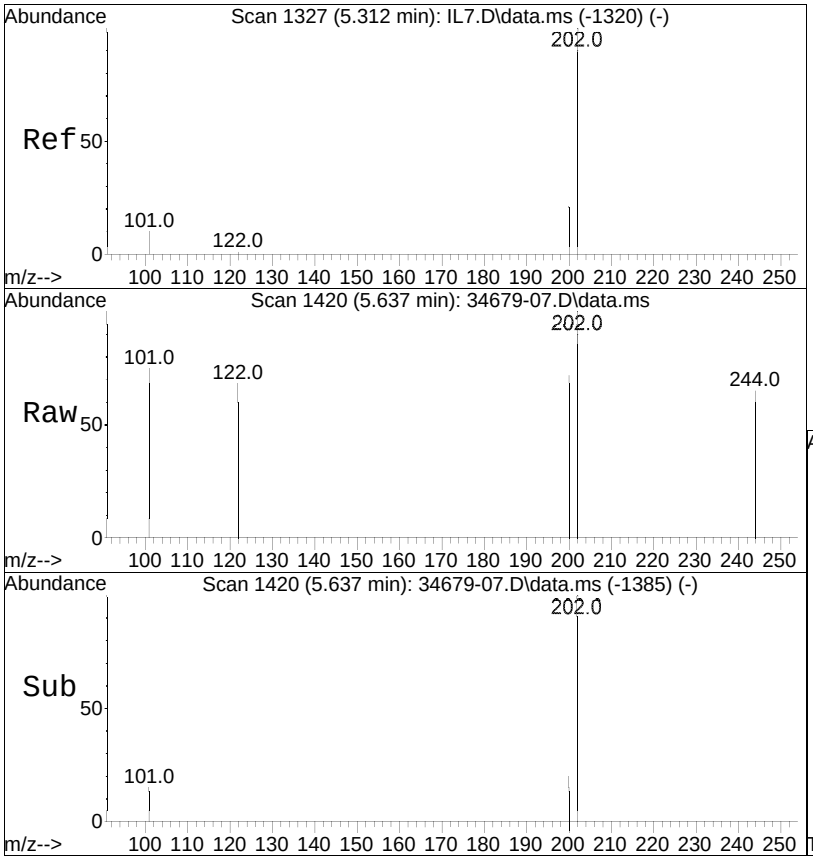


#28
Fluoranthene
Concen: 3.77 ng/ml M4
RT: 5.506 min Scan# 1375
Delta R.T. -0.003 min
Lab File: 34679-07.D
Acq: 24 Jun 2024 02:48 pm

Tgt Ion:202 Resp: 17

Ion	Ratio	Lower	Upper
202	100		
101	17.6	7.2	10.8#

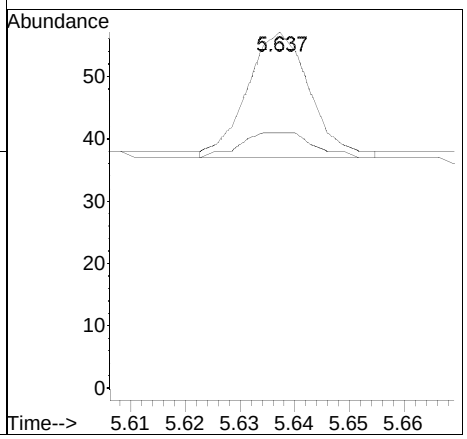


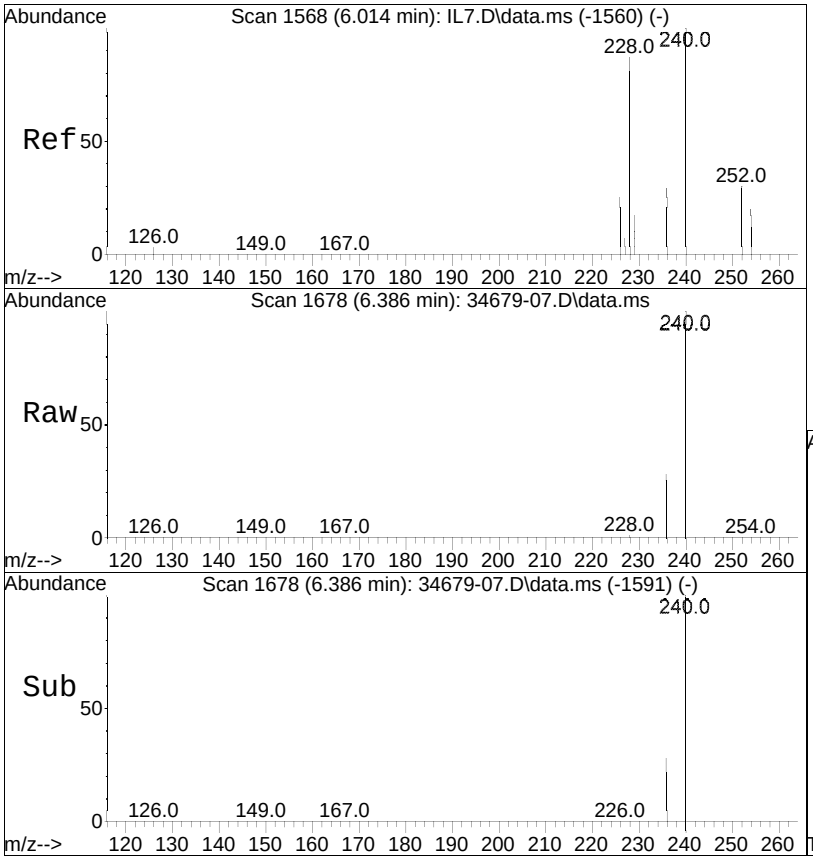


#29
Pyrene
Concen: 3.43 ng/ml M6
RT: 5.637 min Scan# 1420
Delta R.T. -0.003 min
Lab File: 34679-07.D
Acq: 24 Jun 2024 02:48 pm

Tgt Ion:202 Resp: 16

Ion	Ratio	Lower	Upper
202	100		
200	25.0	17.7	26.5

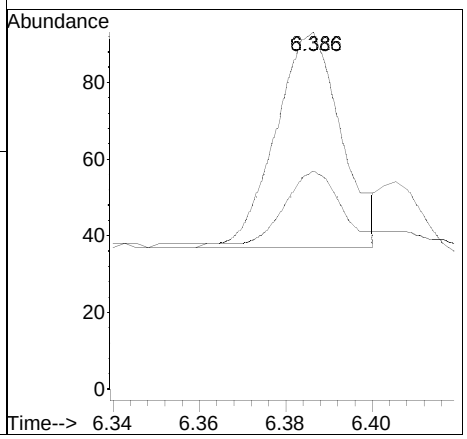


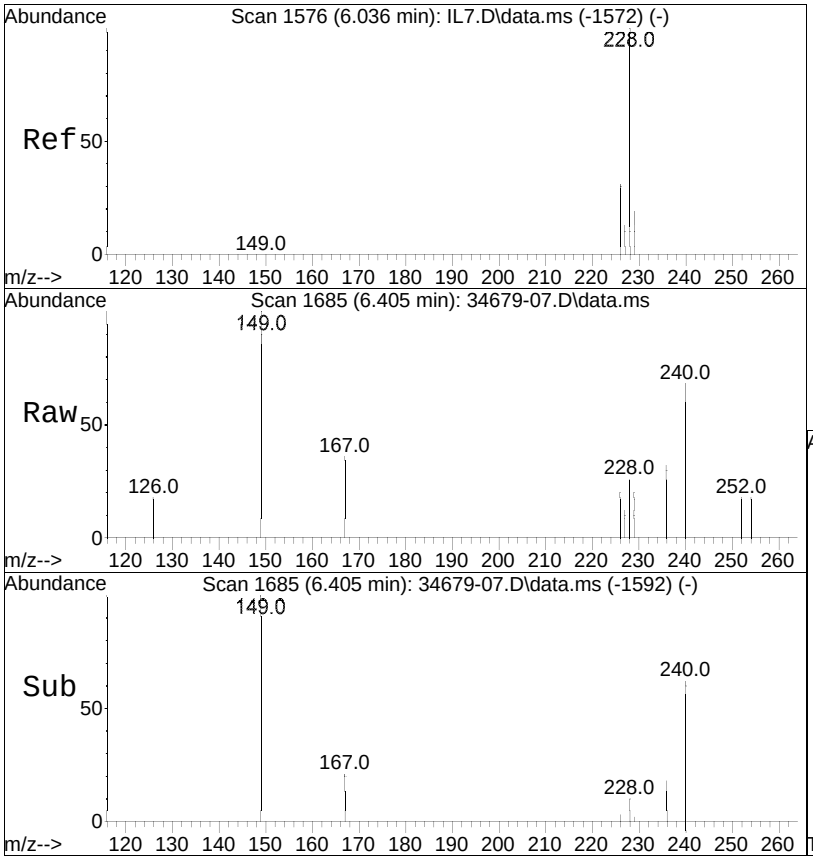


#32
Benzo[a]anthracene
Concen: 5.59 ng/ml M1
RT: 6.386 min Scan# 1678
Delta R.T. 0.000 min
Lab File: 34679-07.D
Acq: 24 Jun 2024 02:48 pm

Tgt Ion:228 Resp: 59

Ion	Ratio	Lower	Upper
228	100		
229	32.2	15.7	23.5#

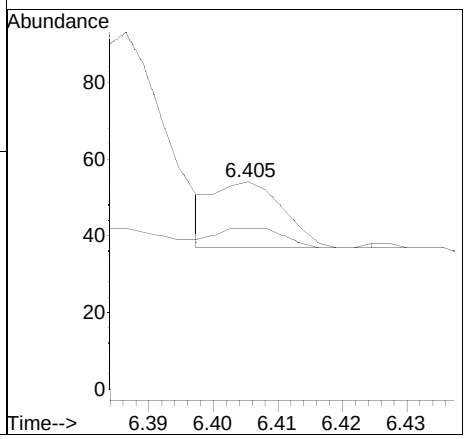


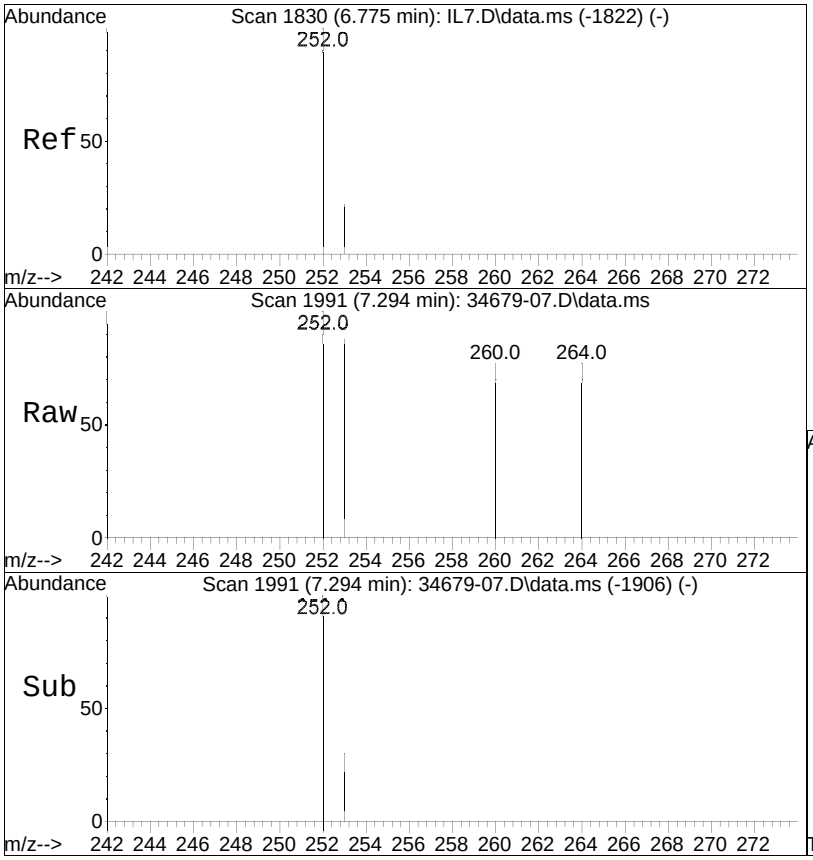


#34
Chrysene
Concen: 2.78 ng/ml M3
RT: 6.405 min Scan# 1685
Delta R.T. -0.005 min
Lab File: 34679-07.D
Acq: 24 Jun 2024 02:48 pm

Tgt Ion:228 Resp: 13

Ion	Ratio	Lower	Upper
228	100		
226	30.8	24.6	36.8

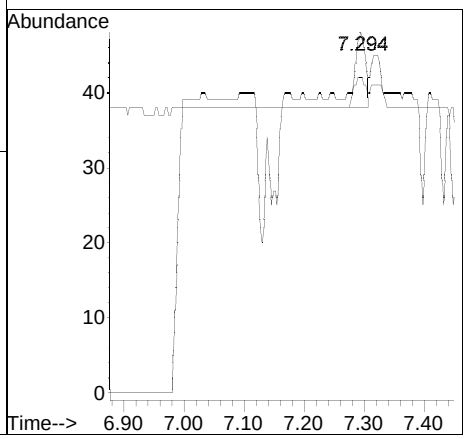


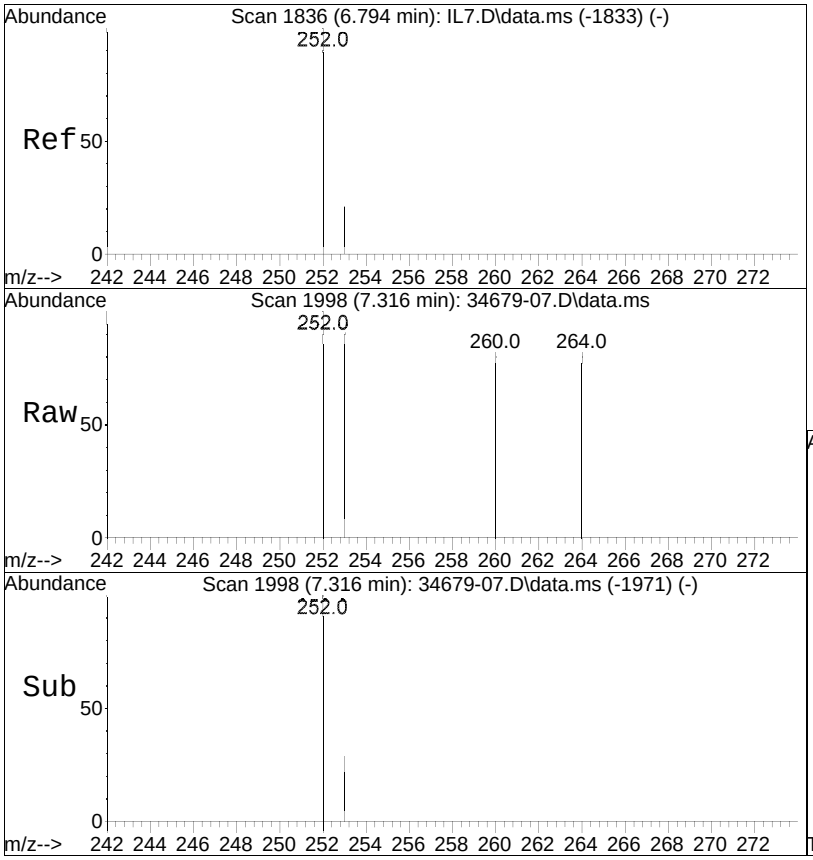


#37
Benzo[b]fluoranthene
Concen: 2.46 ng/ml M7
RT: 7.294 min Scan# 1991
Delta R.T. -0.012 min
Lab File: 34679-07.D
Acq: 24 Jun 2024 02:48 pm

Tgt Ion:252 Resp: 11

Ion	Ratio	Lower	Upper
252	100		
253	36.4	17.1	25.7#

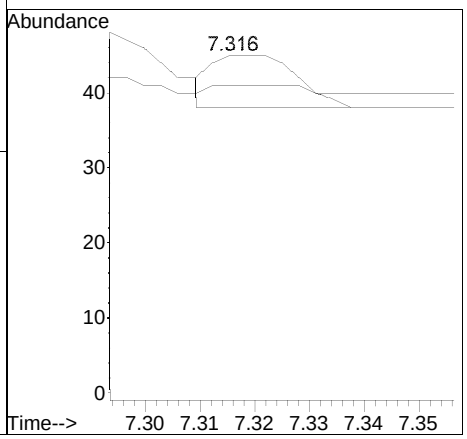


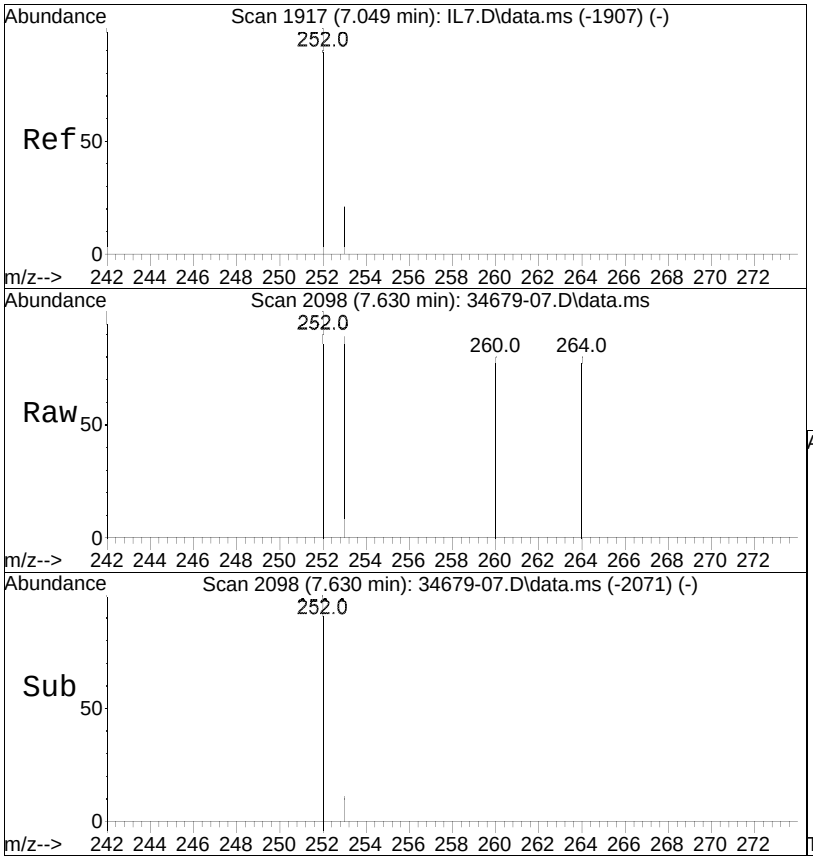


#38
Benzo[k]fluoranthene
Concen: 1.92 ng/ml M7
RT: 7.316 min Scan# 1998
Delta R.T. -0.016 min
Lab File: 34679-07.D
Acq: 24 Jun 2024 02:48 pm

Tgt Ion:252 Resp: 8

Ion	Ratio	Lower	Upper
252	100		
253	37.5	17.3	25.9#

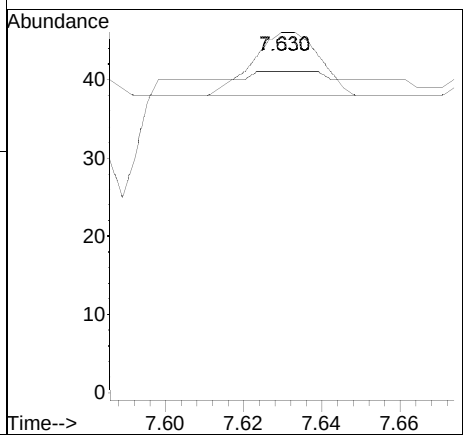


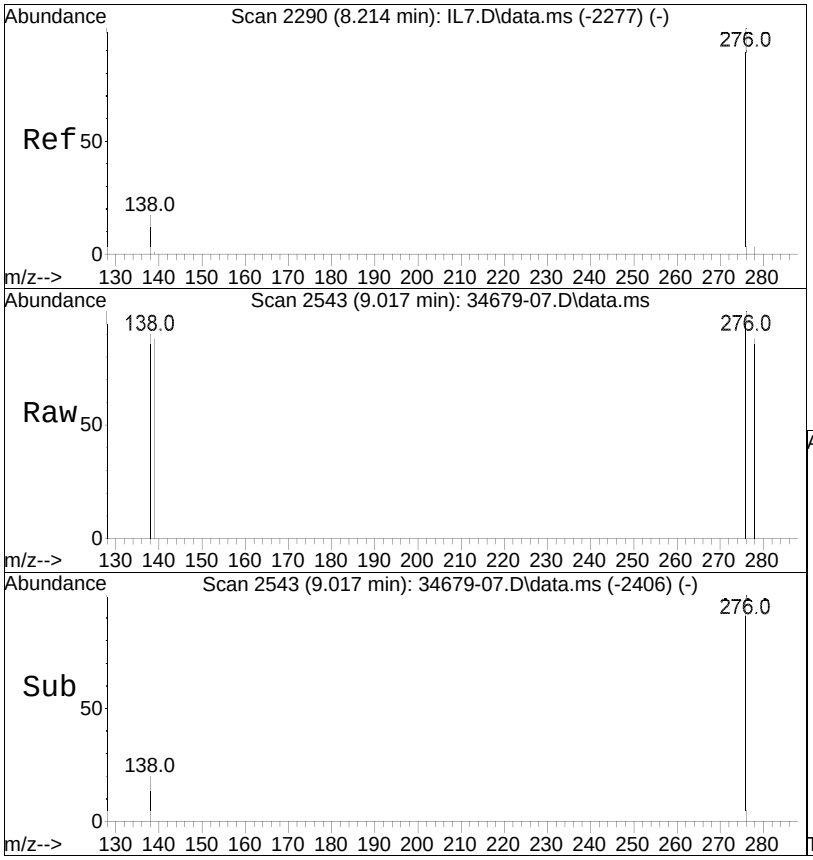


#39
Benzo[a]pyrene
Concen: 2.29 ng/ml M7
RT: 7.630 min Scan# 2098
Delta R.T. -0.016 min
Lab File: 34679-07.D
Acq: 24 Jun 2024 02:48 pm

Tgt Ion:252 Resp: 9

Ion	Ratio	Lower	Upper
252	100		
253	33.3	17.3	25.9#

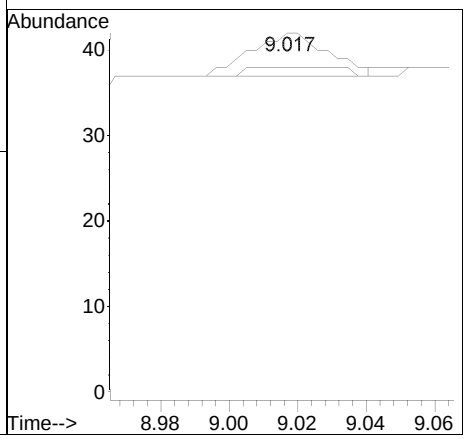


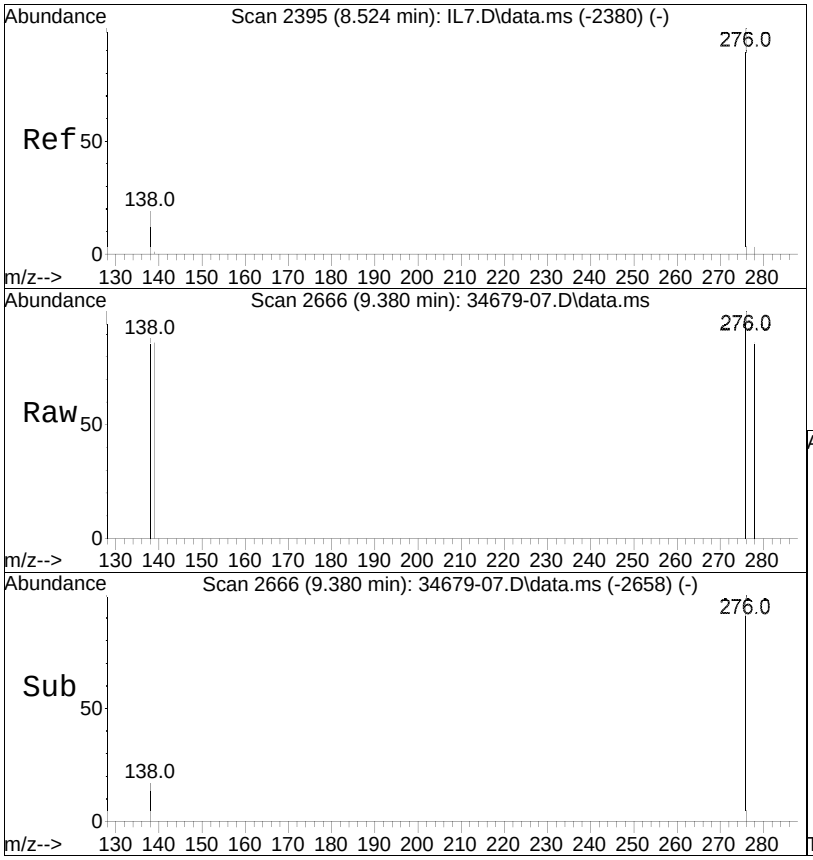


#40
Indeno[1,2,3-cd]pyrene
Concen: 2.03 ng/ml M7
RT: 9.017 min Scan# 2543
Delta R.T. -0.024 min
Lab File: 34679-07.D
Acq: 24 Jun 2024 02:48 pm

Tgt Ion:276 Resp: 8

Ion	Ratio	Lower	Upper
276	100		
138	25.0	13.4	20.2#

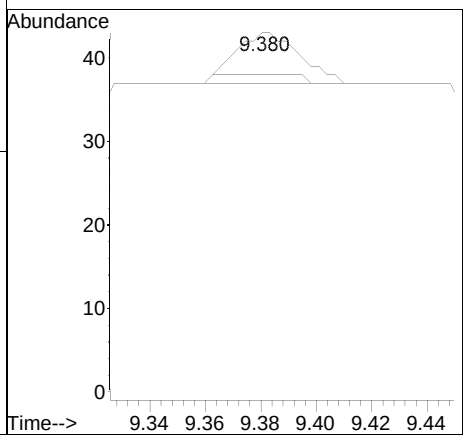




#42
Benzo[g,h,i]perylene
Concen: 2.45 ng/ml M7
RT: 9.380 min Scan# 2666
Delta R.T. -0.026 min
Lab File: 34679-07.D
Acq: 24 Jun 2024 02:48 pm

Tgt Ion:276 Resp: 10

Ion	Ratio	Lower	Upper
276	100		
138	20.0	14.8	22.2

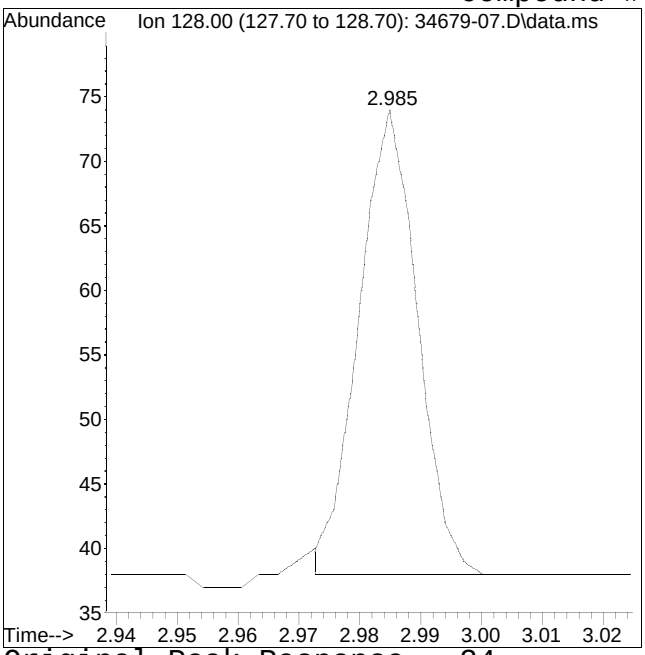


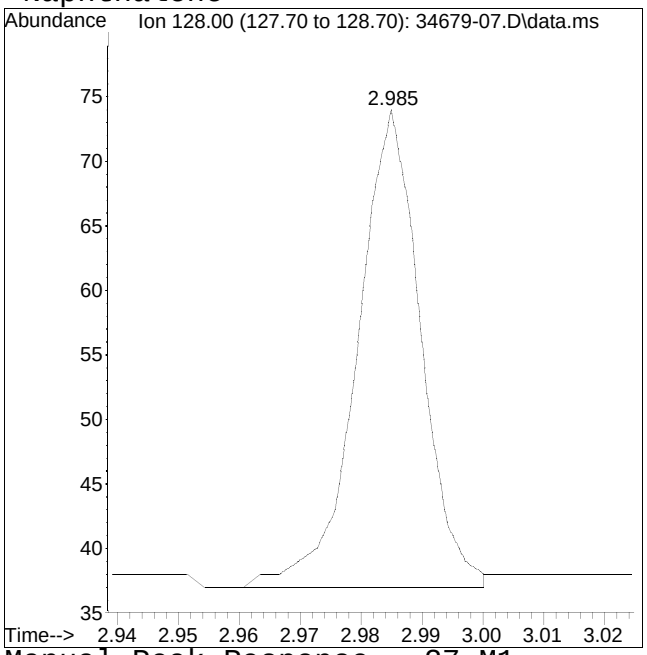
Manual Integration Report

Data Path : I:\8270SIM\SV128\240624\
Data File : 34679-07.D
Date Inj'd : 6/24/2024 2:48 pm
Sample : L2434679-07,32,,jjw

QMethod : SIM-LVI_231211_sv128.M
Operator : SV128:jjw
Instrument : SV128
Quant Date : 6/24/2024 3:01 pm

Compound #9: Naphthalene





Original Peak Response = 24 Manual Peak Response = 27 M1

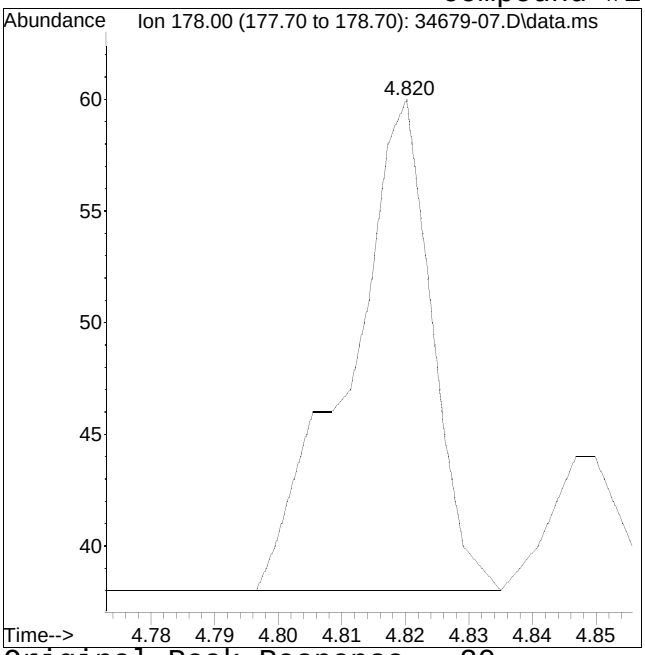
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Manual Integration Report

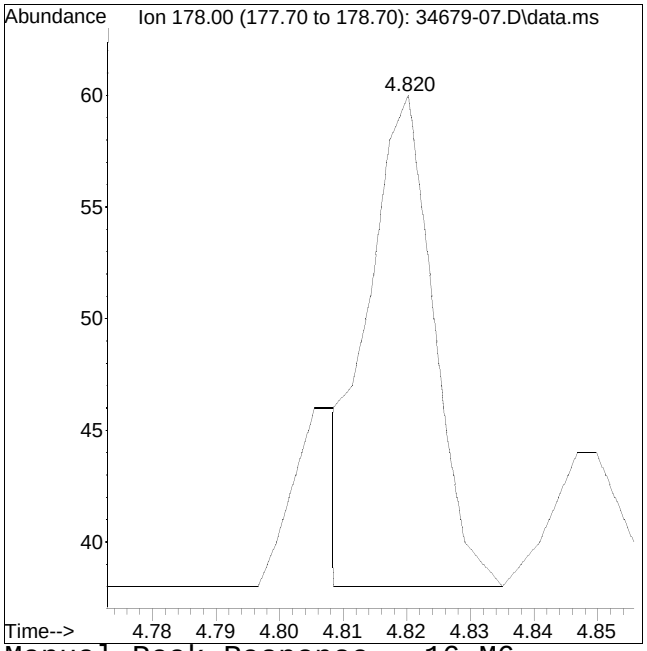
Data Path : I:\8270SIM\SV128\240624\
Data File : 34679-07.D
Date Inj'd : 6/24/2024 2:48 pm
Sample : L2434679-07,32,,jjw

QMethod : SIM-LVI_231211_sv128.M
Operator : SV128:jjw
Instrument : SV128
Quant Date : 6/24/2024 3:01 pm

Compound #26: Phenanthrene



Original Peak Response = 20



Manual Peak Response = 16 M6

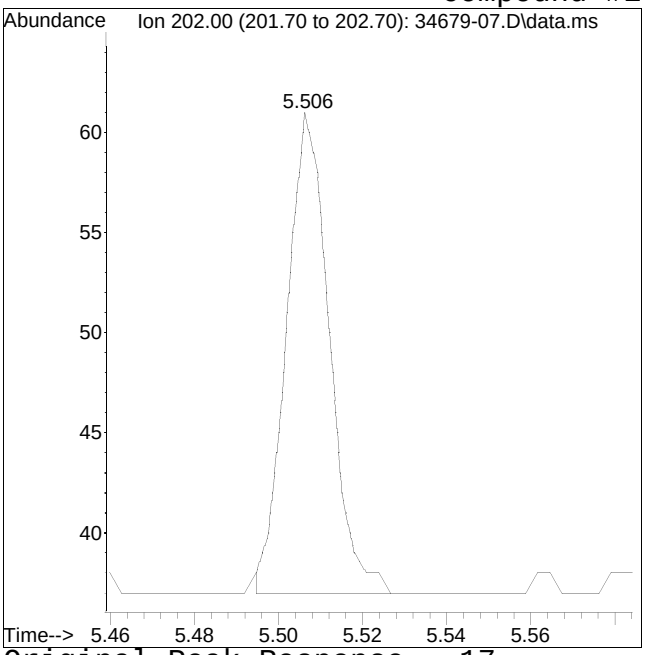
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

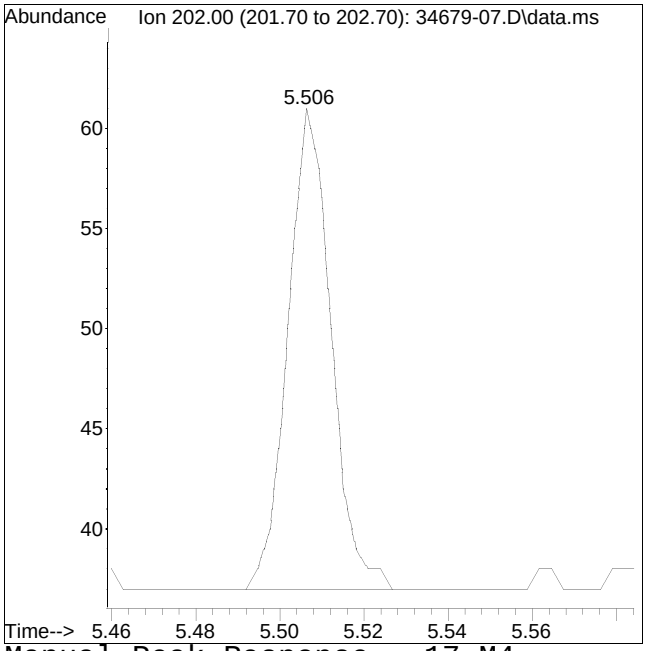
Data Path : I:\8270SIM\SV128\240624\
Data File : 34679-07.D
Date Inj'd : 6/24/2024 2:48 pm
Sample : L2434679-07,32,,jjw

QMethod : SIM-LVI_231211_sv128.M
Operator : SV128:jjw
Instrument : SV128
Quant Date : 6/24/2024 3:01 pm

Compound #28: Fluoranthene



Original Peak Response = 17



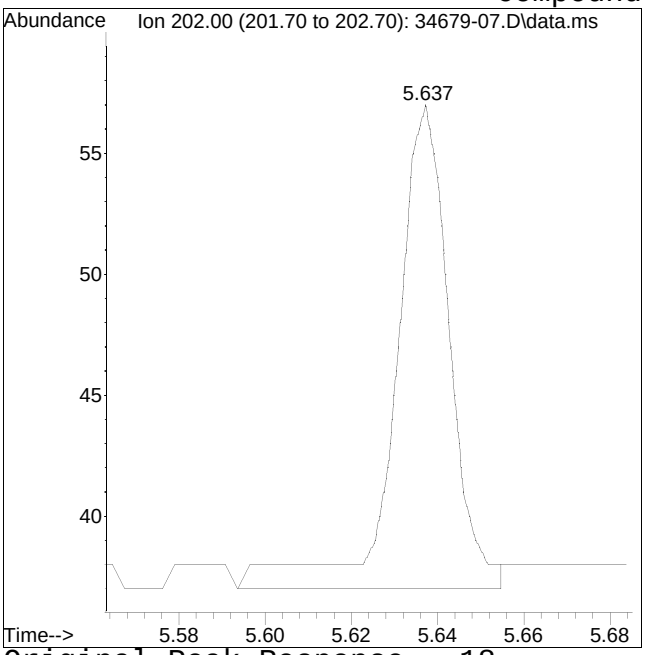
Manual Peak Response = 17 M4

M4 = Poor automated baseline construction.

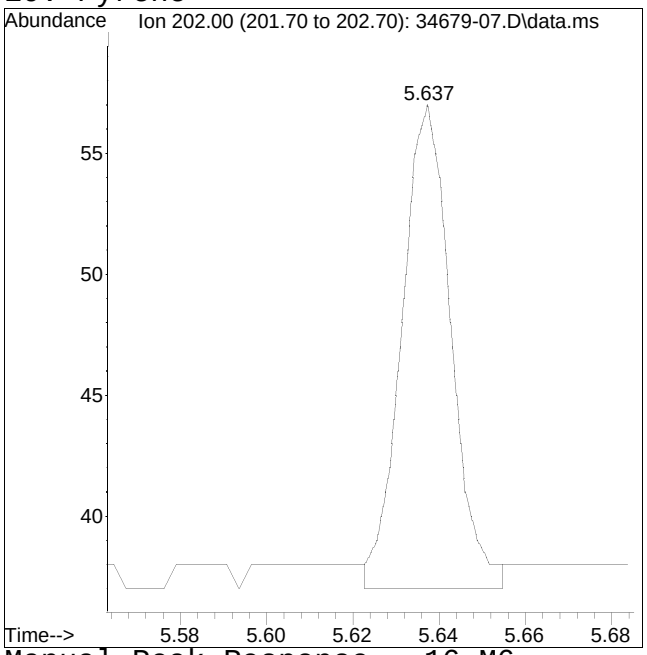
Manual Integration Report

Data Path : I:\8270SIM\SV128\240624\ QMethod : SIM-LVI_231211_sv128.M
Data File : 34679-07.D Operator : SV128:jjw
Date Inj'd : 6/24/2024 2:48 pm Instrument : SV128
Sample : L2434679-07,32,,jjw Quant Date : 6/24/2024 3:01 pm

Compound #29: Pyrene



Original Peak Response = 18



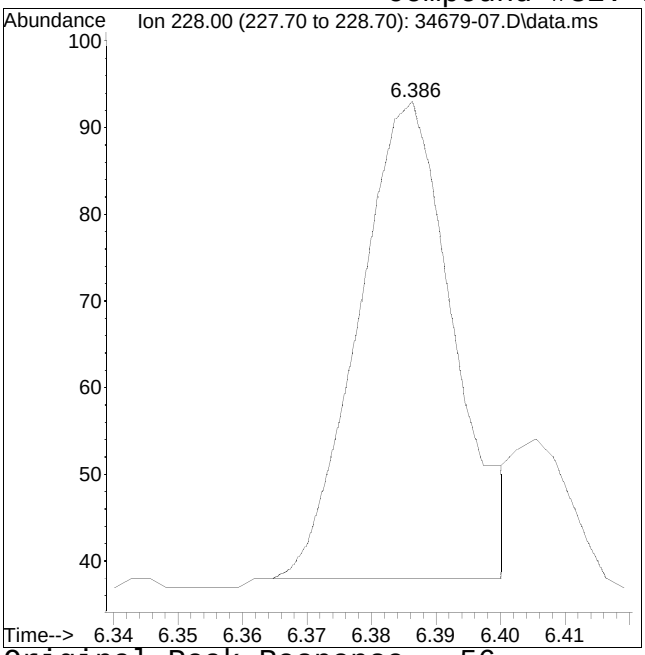
Manual Peak Response = 16 M6

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

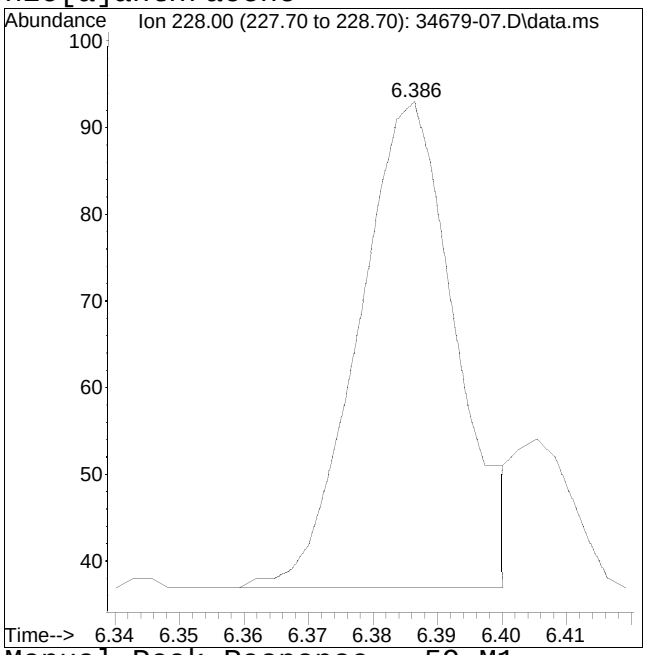
Manual Integration Report

Data Path : I:\8270SIM\SV128\240624\ QMethod : SIM-LVI_231211_sv128.M
Data File : 34679-07.D Operator : SV128:jjw
Date Inj'd : 6/24/2024 2:48 pm Instrument : SV128
Sample : L2434679-07,32,,jjw Quant Date : 6/24/2024 3:01 pm

Compound #32: Benzo[a]anthracene



Original Peak Response = 56



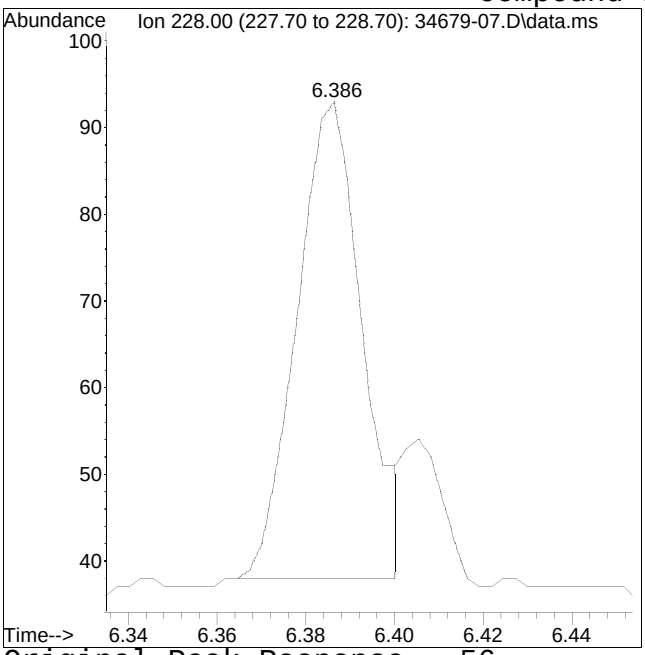
Manual Peak Response = 59 M1

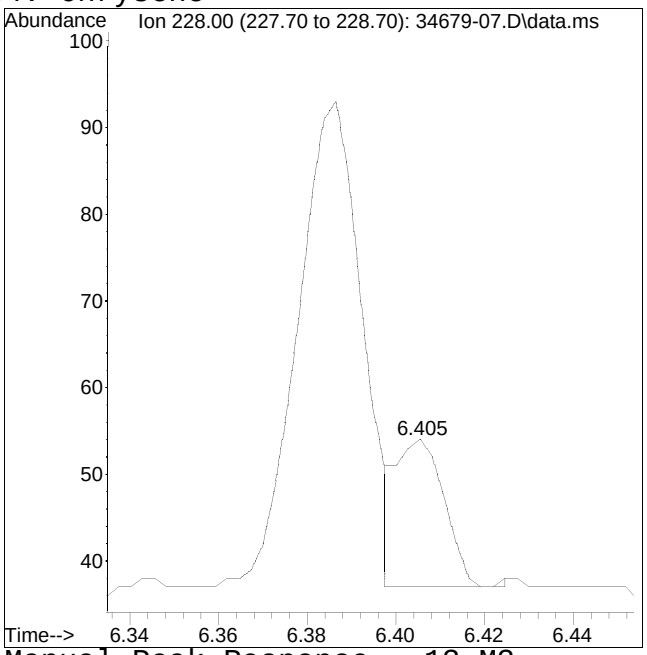
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Manual Integration Report

Data Path : I:\8270SIM\SV128\240624\ QMethod : SIM-LVI_231211_sv128.M
Data File : 34679-07.D Operator : SV128:jjw
Date Inj'd : 6/24/2024 2:48 pm Instrument : SV128
Sample : L2434679-07,32,,jjw Quant Date : 6/24/2024 3:01 pm

Compound #34: Chrysene



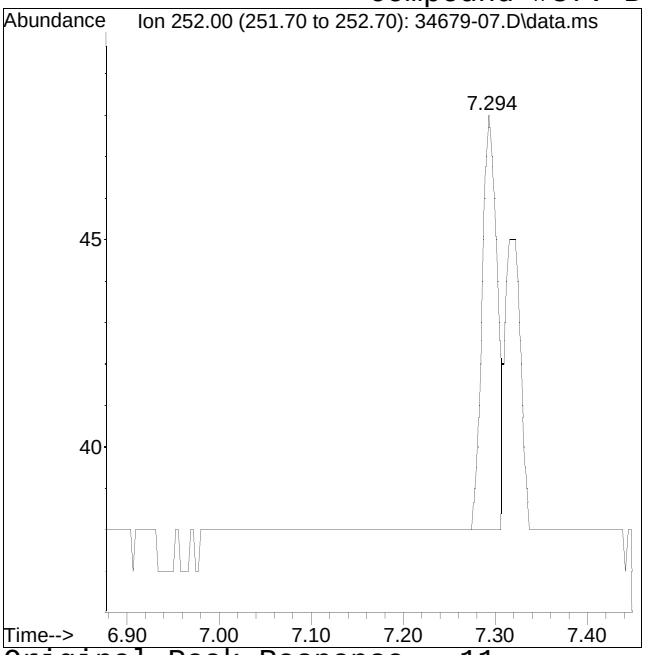


Original Peak Response = 56 Manual Peak Response = 13 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

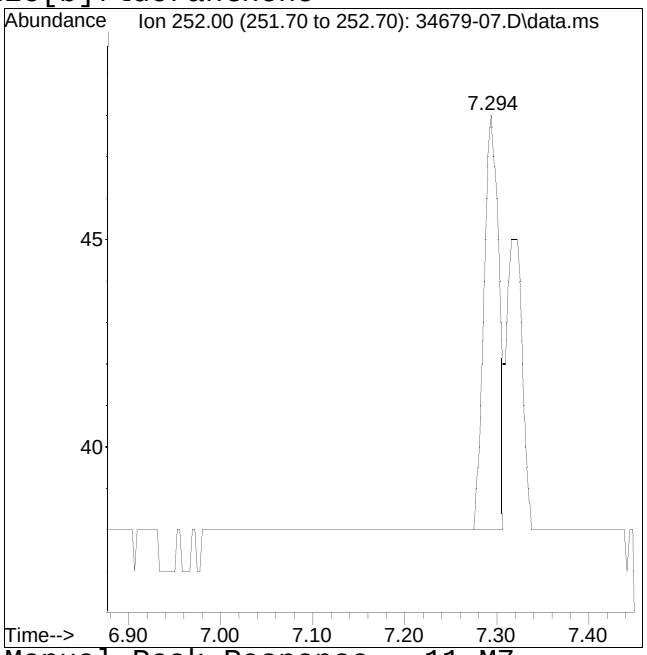
Manual Integration Report

Data Path : I:\8270SIM\SV128\240624\ QMethod : SIM-LVI_231211_sv128.M
Data File : 34679-07.D Operator : SV128:jjw
Date Inj'd : 6/24/2024 2:48 pm Instrument : SV128
Sample : L2434679-07,32,,jjw Quant Date : 6/24/2024 3:01 pm

Compound #37: Benzo[b]fluoranthene



Original Peak Response = 11



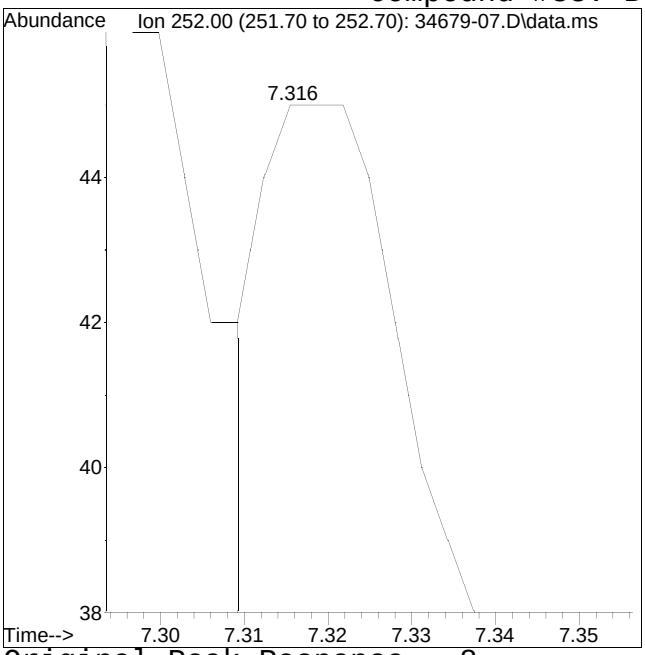
Manual Peak Response = 11 M7

M7 = A qualifier ion was manually integrated (only for GC/MS data).

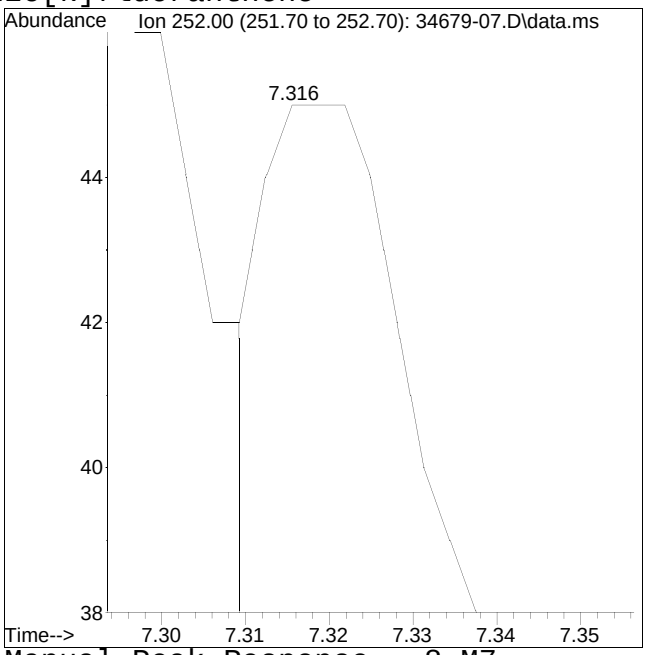
Manual Integration Report

Data Path : I:\8270SIM\SV128\240624\ QMethod : SIM-LVI_231211_sv128.M
Data File : 34679-07.D Operator : SV128:jjw
Date Inj'd : 6/24/2024 2:48 pm Instrument : SV128
Sample : L2434679-07,32,,jjw Quant Date : 6/24/2024 3:01 pm

Compound #38: Benzo[k]fluoranthene



Original Peak Response = 8



Manual Peak Response = 8 M7

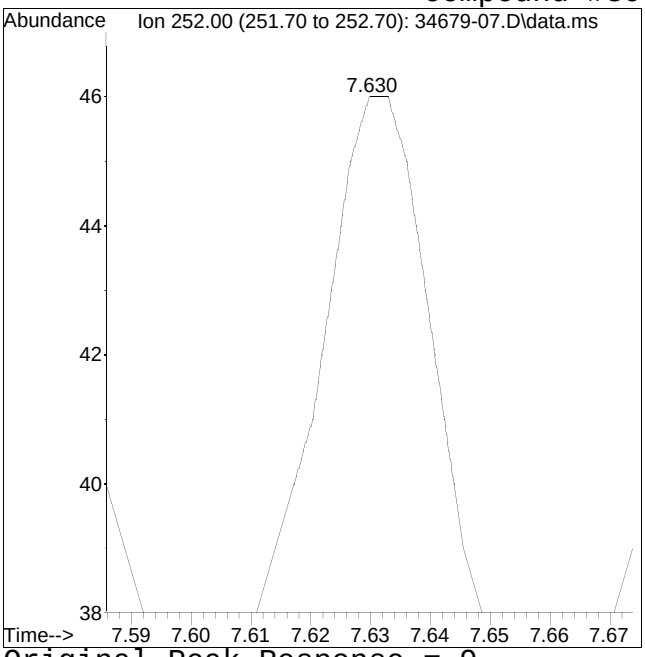
M7 = A qualifier ion was manually integrated (only for GC/MS data).

Manual Integration Report

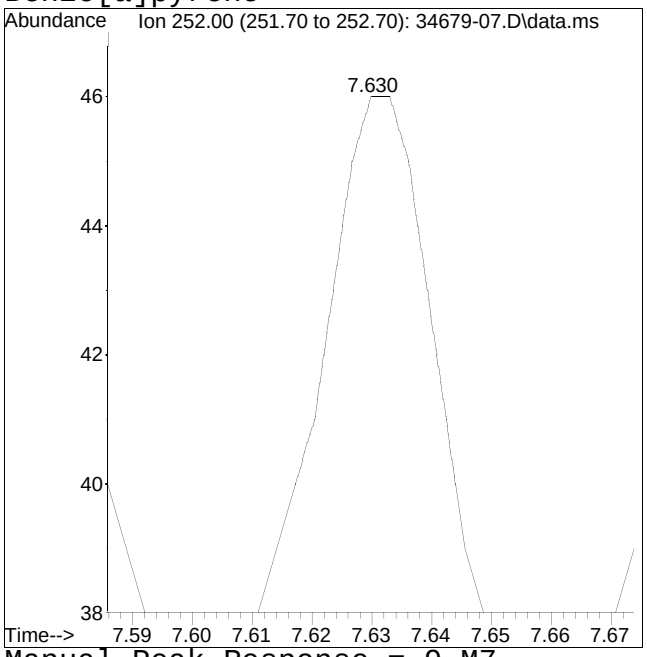
Data Path : I:\8270SIM\SV128\240624\
Data File : 34679-07.D
Date Inj'd : 6/24/2024 2:48 pm
Sample : L2434679-07,32,,jjw

QMethod : SIM-LVI_231211_sv128.M
Operator : SV128:jjw
Instrument : SV128
Quant Date : 6/24/2024 3:01 pm

Compound #39: Benzo[a]pyrene



Original Peak Response = 9



Manual Peak Response = 9 M7

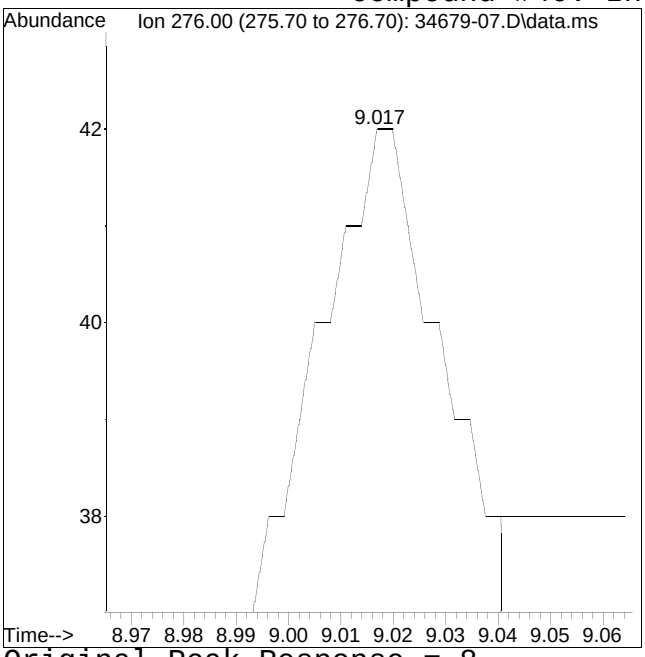
M7 = A qualifier ion was manually integrated (only for GC/MS data).

Manual Integration Report

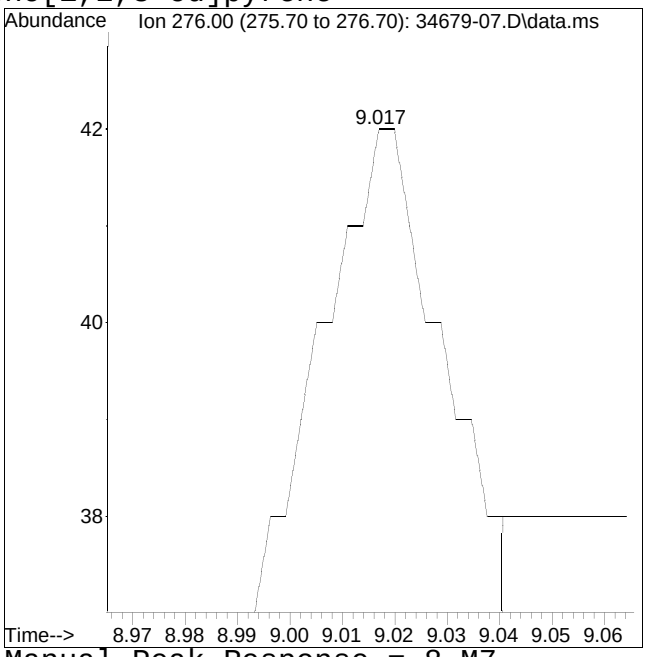
Data Path : I:\8270SIM\SV128\240624\
Data File : 34679-07.D
Date Inj'd : 6/24/2024 2:48 pm
Sample : L2434679-07,32,,jjw

QMethod : SIM-LVI_231211_sv128.M
Operator : SV128:jjw
Instrument : SV128
Quant Date : 6/24/2024 3:01 pm

Compound #40: Indeno[1,2,3-cd]pyrene



Original Peak Response = 8



Manual Peak Response = 8 M7

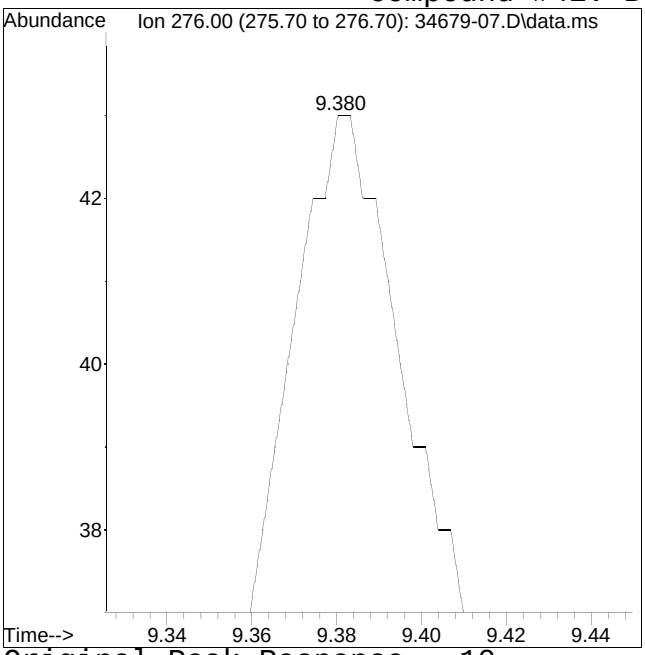
M7 = A qualifier ion was manually integrated (only for GC/MS data).

Manual Integration Report

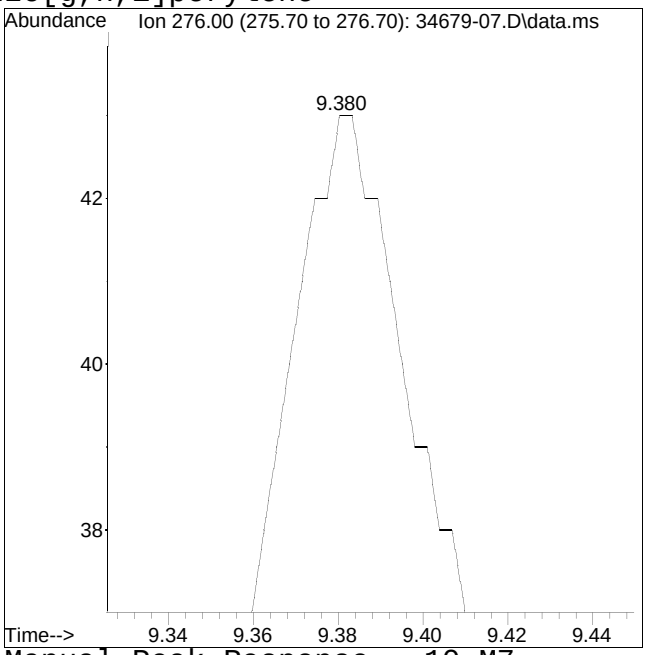
Data Path : I:\8270SIM\SV128\240624\
Data File : 34679-07.D
Date Inj'd : 6/24/2024 2:48 pm
Sample : L2434679-07,32,,jjw

QMethod : SIM-LVI_231211_sv128.M
Operator : SV128:jjw
Instrument : SV128
Quant Date : 6/24/2024 3:01 pm

Compound #42: Benzo[g,h,i]perylene



Original Peak Response = 10



Manual Peak Response = 10 M7

M7 = A qualifier ion was manually integrated (only for GC/MS data).

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV128\240624\
Data File : 34679-08.D
Acq On : 24 Jun 2024 03:04 pm
Operator : SV128:jjw
Sample : L2434679-08,32,,jjw
Misc : WG1938533,WG1938280,ical20676
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jun 27 14:26:20 2024
Quant Method : I:\8270sim\sv128\240624\SIM-LVI_231211_sv128.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 24 11:39:29 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270sim\sv128\240624\ccv0624.D
Sub List : DEFAULT - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.304	152	3714	4000.000	ng/ml	0.00
Standard Area 1 = 4069			Recovery = 91.28%			
8) Naphthalene-d8	2.973	136	12984	4000.000	ng/ml	0.00
Standard Area 1 = 14375			Recovery = 90.32%			
17) Acenaphthene-d10	3.958	164	7125	4000.000	ng/ml	0.00
Standard Area 1 = 8180			Recovery = 87.10%			
22) Phenanthrene-d10	4.808	188	15849	4000.000	ng/ml	0.00
Standard Area 1 = 17962			Recovery = 88.24%			
31) Chrysene-d12	6.384	240	14139	4000.000	ng/ml	0.00
Standard Area 1 = 16460			Recovery = 85.90%			
36) Perylene-d12	7.695	264	15869	4000.000	ng/ml	-0.02
Standard Area 1 = 18271			Recovery = 86.85%			
System Monitoring Compounds						
2) 2-Fluorophenol	1.695	112	3809	4072.722	ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 81.45%			
3) Phenol-d6	2.107	99	3920	3586.435	ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 71.73%			
7) Nitrobenzene-d5	2.585	82	2465	2790.649	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 111.63%			
13) 2-Fluorobiphenyl	3.575	172	6070	2204.443	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 88.18%			
21) 2,4,6-Tribromophenol	4.407	330	1643	4614.555	ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 92.29%			
30) 4-Terphenyl-d14	5.727	244	7453	2257.171	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 90.29%			
Target Compounds						Qvalue
6) Hexachloroethane	0.000		0	N.D.		
9) Naphthalene	2.985	128	10M4	3.003	ng/ml	
10) Hexachlorobutadiene	0.000		0	N.D.		
11) 2-Methylnaphthalene	0.000		0	N.D.	d	
14) 2-Chloronaphthalene	0.000		0	N.D.	d	
16) Acenaphthylene	0.000		0	N.D.		
18) Acenaphthene	0.000		0	N.D.	d	
20) Fluorene	0.000		0	N.D.	d	
24) Hexachlorobenzene	0.000		0	N.D.	d	
25) Pentachlorophenol	0.000		0	N.D.		

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV128\240624\
Data File : 34679-08.D
Acq On : 24 Jun 2024 03:04 pm
Operator : SV128:jjw
Sample : L2434679-08,32,,jjw
Misc : WG1938533,WG1938280,ical20676
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jun 27 14:26:20 2024
Quant Method : I:\8270sim\sv128\240624\SIM-LVI_231211_sv128.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 24 11:39:29 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270sim\sv128\240624\ccv0624.D
Sub List : DEFAULT - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
26) Phenanthrene	4.820	178	12M6	2.800	ng/ml	
27) Anthracene	0.000		0	N.D.	d	
28) Fluoranthene	0.000		0	N.D.		
29) Pyrene	0.000		0	N.D.	d	
32) Benzo[a]anthracene	0.000		0	N.D.	d	
34) Chrysene	0.000		0	N.D.	d	
37) Benzo[b]fluoranthene	0.000		0	N.D.		
38) Benzo[k]fluoranthene	0.000		0	N.D.		
39) Benzo[a]pyrene	0.000		0	N.D.	d	
40) Indeno[1,2,3-cd]pyrene	0.000		0	N.D.		
41) Dibenzo[a,h]anthracene	0.000		0	N.D.	d	
42) Benzo[g,h,i]perylene	0.000		0	N.D.		

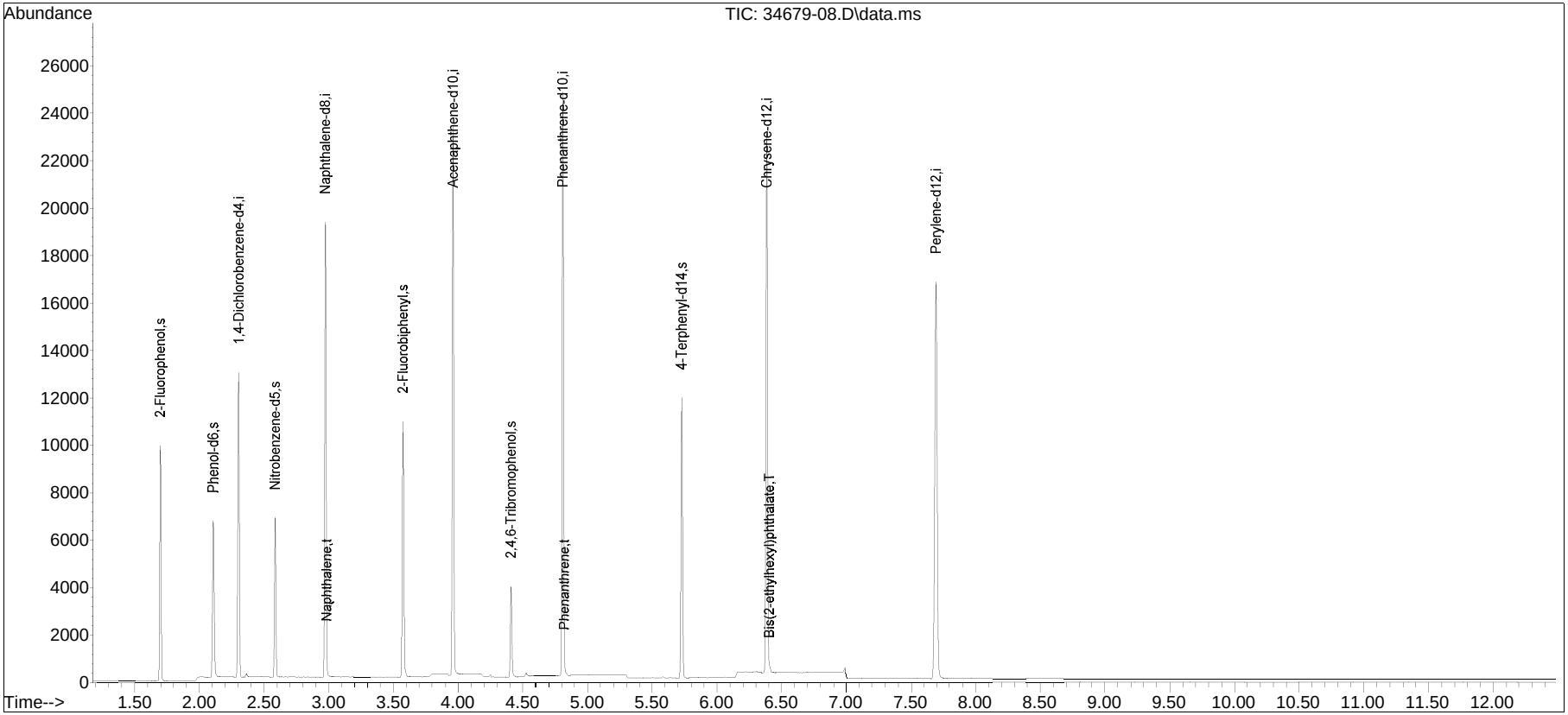
(#) = qualifier out of range (m) = manual integration (+) = signals summed

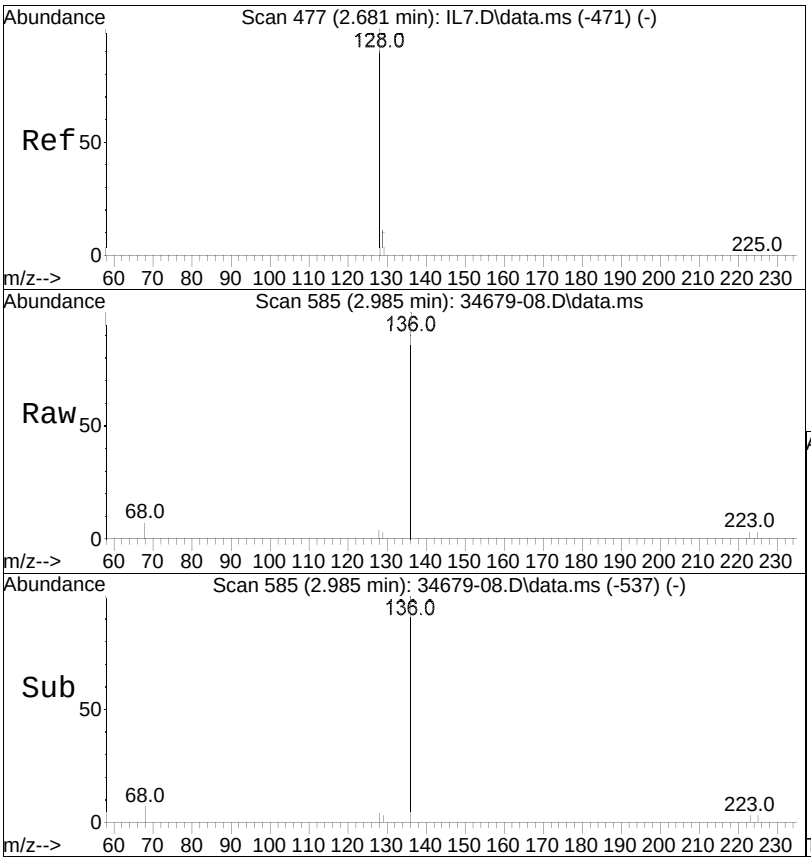
Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV128\240624\
Data File : 34679-08.D
Acq On : 24 Jun 2024 03:04 pm
Operator : SV128:jjw
Sample : L2434679-08,32,,jjw
Misc : WG1938533,WG1938280,ical20676
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jun 27 14:26:20 2024
Quant Method : I:\8270sim\sv128\240624\SIM-LVI_231211_sv128.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 24 11:39:29 2024
Response via : Initial Calibration

Sub List : DEFAULT - All compounds listedv0624.D•

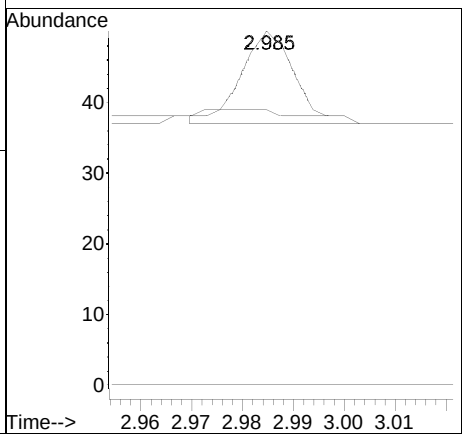


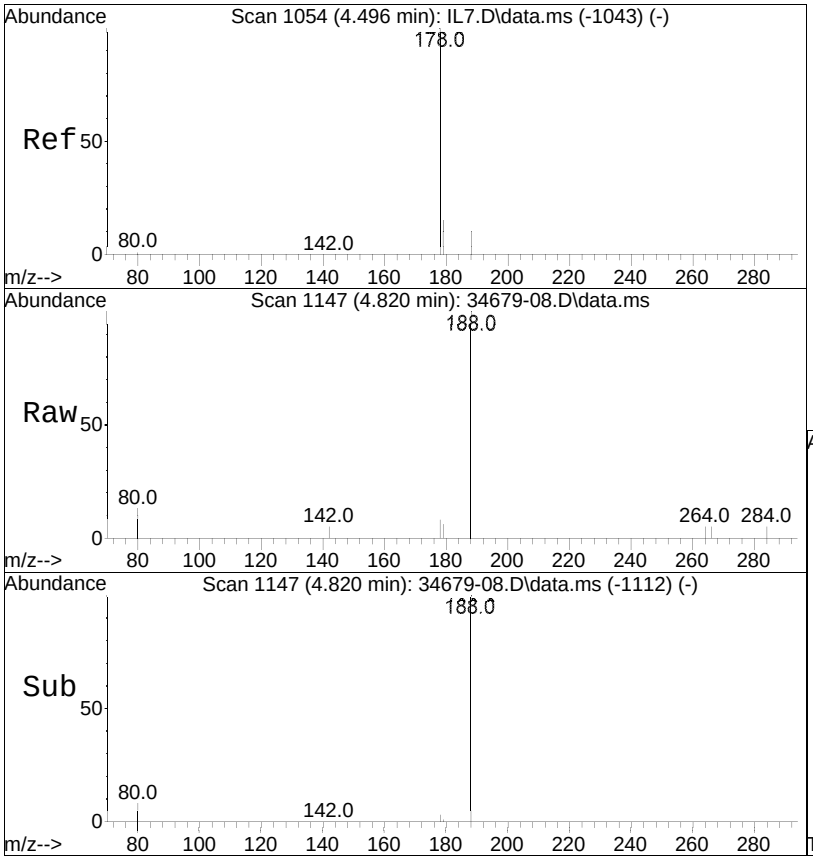


#9
Naphthalene
Concen: 3.00 ng/ml M4
RT: 2.985 min Scan# 585
Delta R.T. -0.002 min
Lab File: 34679-08.D
Acq: 24 Jun 2024 03:04 pm

Tgt Ion:128 Resp: 10

Ion	Ratio	Lower	Upper
128	100		
129	20.0	8.8	13.2#
127	0.0	0.0	0.0

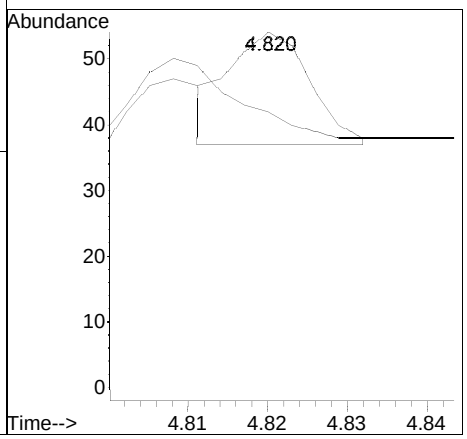




#26
Phenanthrene
Concen: 2.80 ng/ml M6
RT: 4.820 min Scan# 1147
Delta R.T. -0.003 min
Lab File: 34679-08.D
Acq: 24 Jun 2024 03:04 pm

Tgt Ion:178 Resp: 12

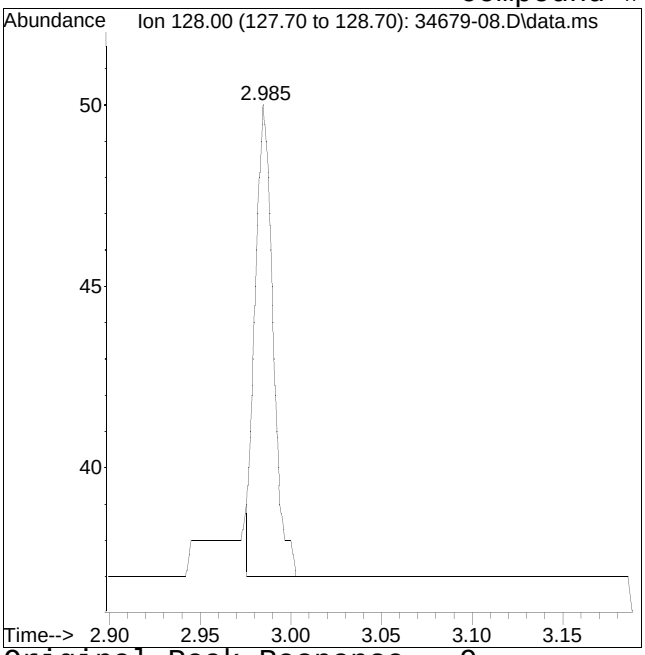
Ion	Ratio	Lower	Upper
178	100		
179	25.0	12.2	18.4#



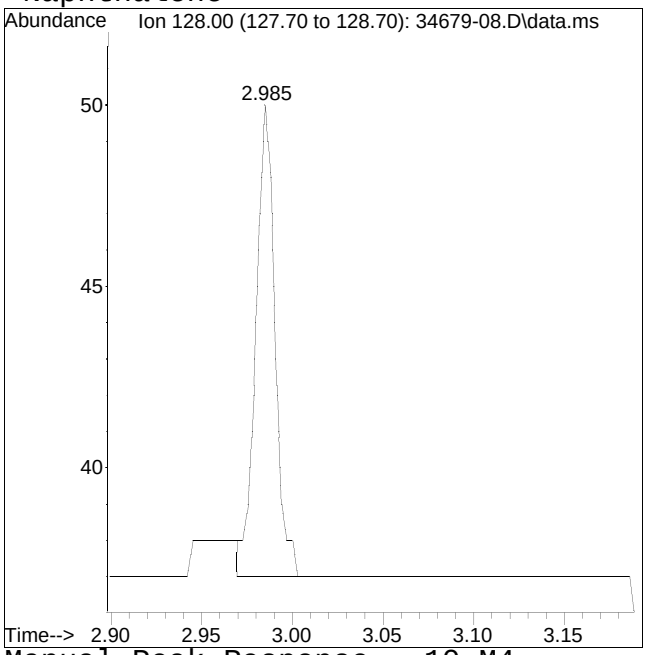
Manual Integration Report

Data Path : I:\8270SIM\SV128\240624\ QMethod : SIM-LVI_231211_sv128.M
Data File : 34679-08.D Operator : SV128:jjw
Date Inj'd : 6/24/2024 3:04 pm Instrument : SV128
Sample : L2434679-08,32,,jjw Quant Date : 6/24/2024 3:18 pm

Compound #9: Naphthalene



Original Peak Response = 9



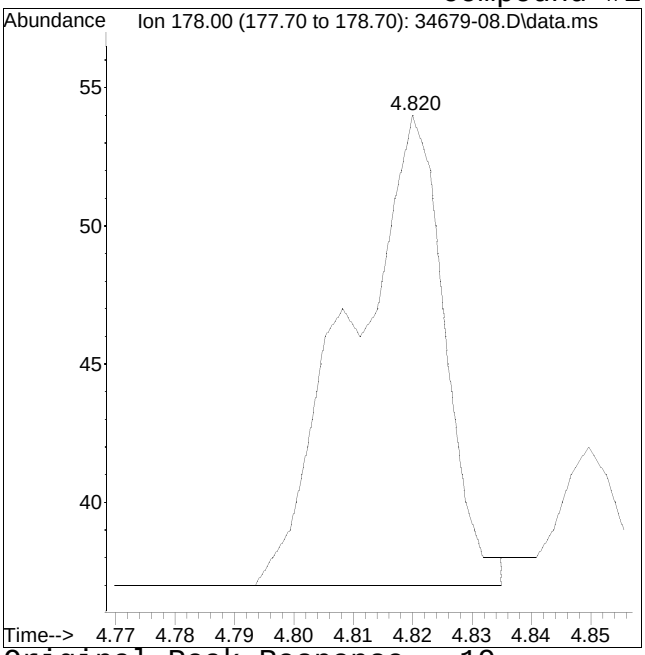
Manual Peak Response = 10 M4

M4 = Poor automated baseline construction.

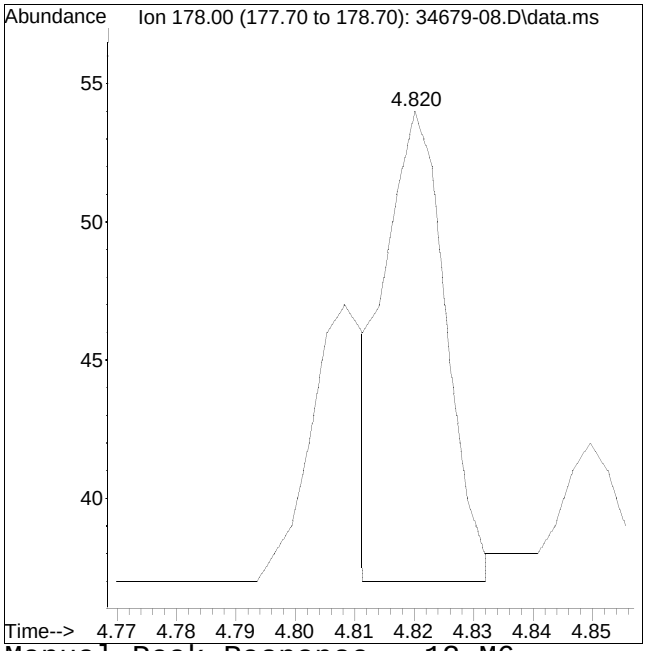
Manual Integration Report

Data Path : I:\8270SIM\SV128\240624\ QMethod : SIM-LVI_231211_sv128.M
Data File : 34679-08.D Operator : SV128:jjw
Date Inj'd : 6/24/2024 3:04 pm Instrument : SV128
Sample : L2434679-08,32,,jjw Quant Date : 6/24/2024 3:18 pm

Compound #26: Phenanthrene



Original Peak Response = 19



Manual Peak Response = 12 M6

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV128\240624\
Data File : 34679-09.D
Acq On : 24 Jun 2024 03:21 pm
Operator : SV128:jjw
Sample : L2434679-09,32,,jjw
Misc : WG1938533,WG1938280,ical20676
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Jun 27 14:30:17 2024
Quant Method : I:\8270sim\sv128\240624\SIM-LVI_231211_sv128.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 24 11:39:29 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270sim\sv128\240624\ccv0624.D
Sub List : DEFAULT - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.304	152	3750	4000.000	ng/ml	0.00
Standard Area 1 = 4069			Recovery = 92.16%			
8) Naphthalene-d8	2.973	136	13011	4000.000	ng/ml	0.00
Standard Area 1 = 14375			Recovery = 90.51%			
17) Acenaphthene-d10	3.960	164	7144	4000.000	ng/ml	0.00
Standard Area 1 = 8180			Recovery = 87.33%			
22) Phenanthrene-d10	4.806	188	15832	4000.000	ng/ml	# 0.00
Standard Area 1 = 17962			Recovery = 88.14%			
31) Chrysene-d12	6.385	240	14231	4000.000	ng/ml	0.00
Standard Area 1 = 16460			Recovery = 86.46%			
36) Perylene-d12	7.694	264	16062	4000.000	ng/ml	-0.02
Standard Area 1 = 18271			Recovery = 87.91%			
System Monitoring Compounds						
2) 2-Fluorophenol	1.695	112	3527	3734.994	ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 74.70%			
3) Phenol-d6	2.107	99	3606	3267.482	ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 65.35%			
7) Nitrobenzene-d5	2.585	82	2415	2707.797	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 108.31%			
13) 2-Fluorobiphenyl	3.575	172	5970	2163.627	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 86.55%			
21) 2,4,6-Tribromophenol	4.408	330	1556	4358.582	ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 87.17%			
30) 4-Terphenyl-d14	5.728	244	7362	2232.006	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 89.28%			
Target Compounds						Qvalue
6) Hexachloroethane	0.000		0	N.D.		
9) Naphthalene	2.985	128	48M4	14.386	ng/ml	
10) Hexachlorobutadiene	0.000		0	N.D.		
11) 2-Methylnaphthalene	3.367	142	6M3	2.815	ng/ml	
14) 2-Chloronaphthalene	0.000		0	N.D.		
16) Acenaphthylene	0.000		0	N.D.	d	
18) Acenaphthene	0.000		0	N.D.		
20) Fluorene	0.000		0	N.D.	d	
24) Hexachlorobenzene	0.000		0	N.D.	d	
25) Pentachlorophenol	0.000		0	N.D.		

Data Path : I:\8270SIM\SV128\240624\
Data File : 34679-09.D
Acq On : 24 Jun 2024 03:21 pm
Operator : SV128:jjw
Sample : L2434679-09,32,,jjw
Misc : WG1938533,WG1938280,ical20676
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Jun 27 14:30:17 2024
Quant Method : I:\8270sim\sv128\240624\SIM-LVI_231211_sv128.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 24 11:39:29 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270sim\sv128\240624\ccv0624.D
Sub List : DEFAULT - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
26) Phenanthrene	4.818	178	15M6	3.504	ng/ml	
27) Anthracene	0.000		0	N.D.	d	
28) Fluoranthene	0.000		0	N.D.		
29) Pyrene	0.000		0	N.D.	d	
32) Benzo[a]anthracene	0.000		0	N.D.	d	
34) Chrysene	0.000		0	N.D.	d	
37) Benzo[b]fluoranthene	0.000		0	N.D.		
38) Benzo[k]fluoranthene	0.000		0	N.D.		
39) Benzo[a]pyrene	0.000		0	N.D.	d	
40) Indeno[1,2,3-cd]pyrene	0.000		0	N.D.		
41) Dibenzo[a,h]anthracene	0.000		0	N.D.		
42) Benzo[g,h,i]perylene	0.000		0	N.D.		

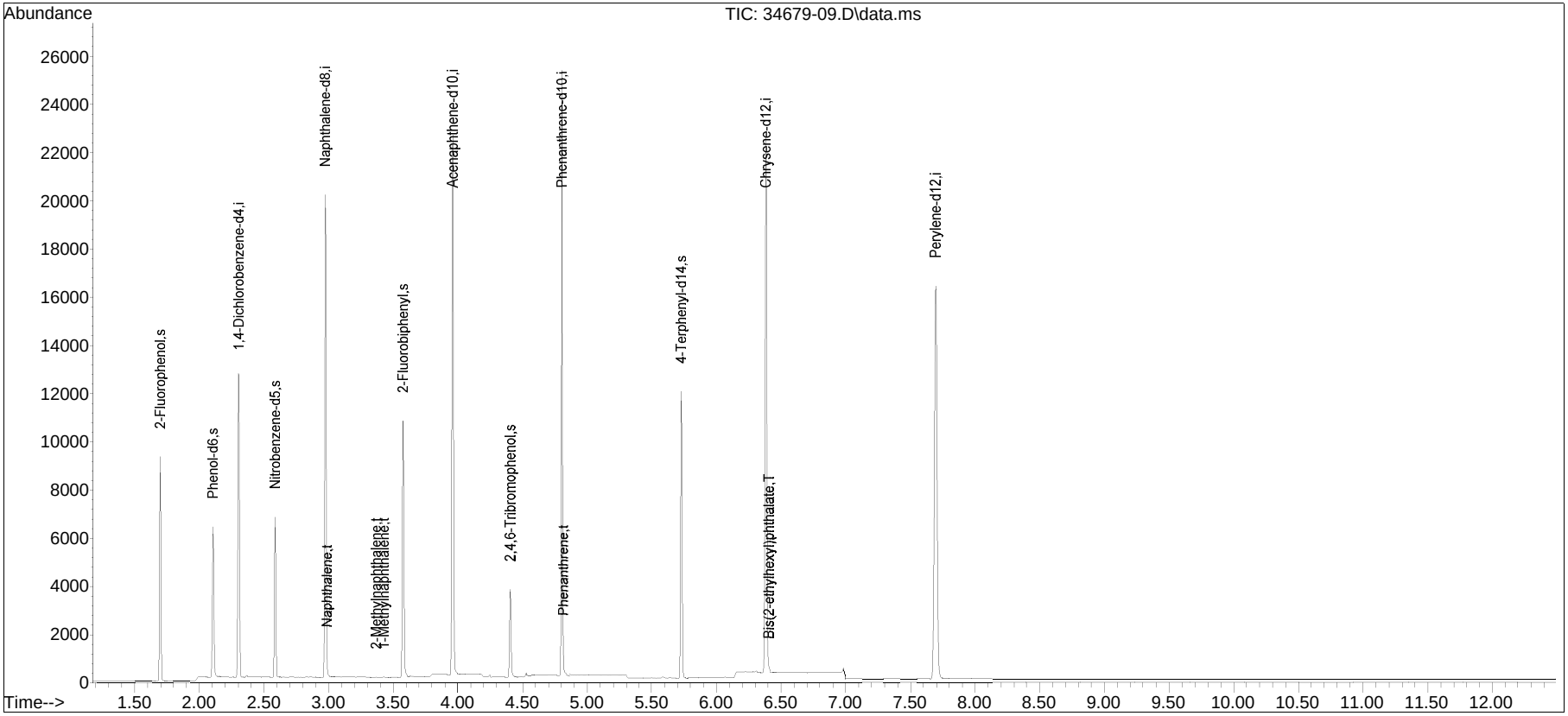
(#) = qualifier out of range (m) = manual integration (+) = signals summed

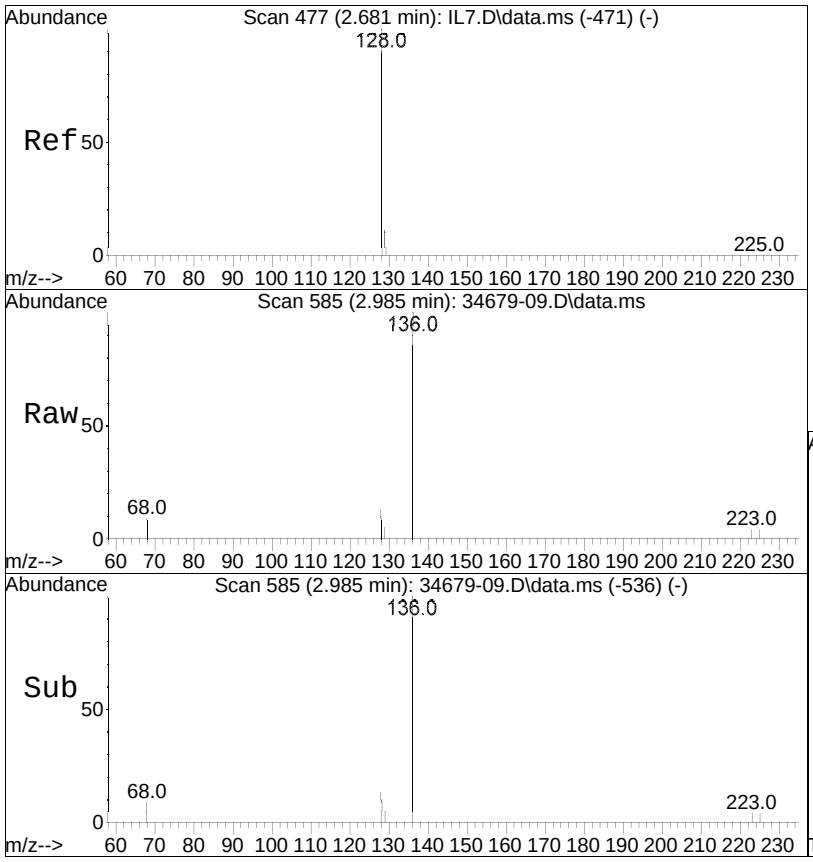
Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV128\240624\
Data File : 34679-09.D
Acq On : 24 Jun 2024 03:21 pm
Operator : SV128:jjw
Sample : L2434679-09,32,,jjw
Misc : WG1938533,WG1938280,ical20676
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Jun 27 14:30:17 2024
Quant Method : I:\8270sim\sv128\240624\SIM-LVI_231211_sv128.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 24 11:39:29 2024
Response via : Initial Calibration

Sub List : DEFAULT - All compounds listedv0624.D•

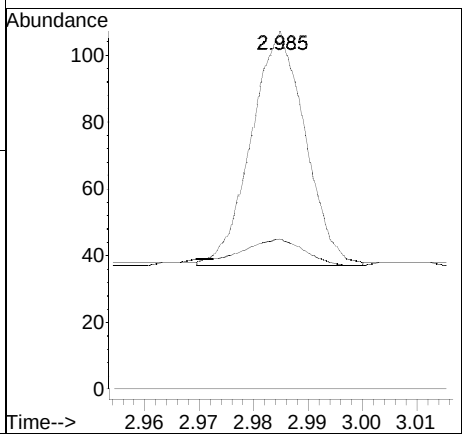


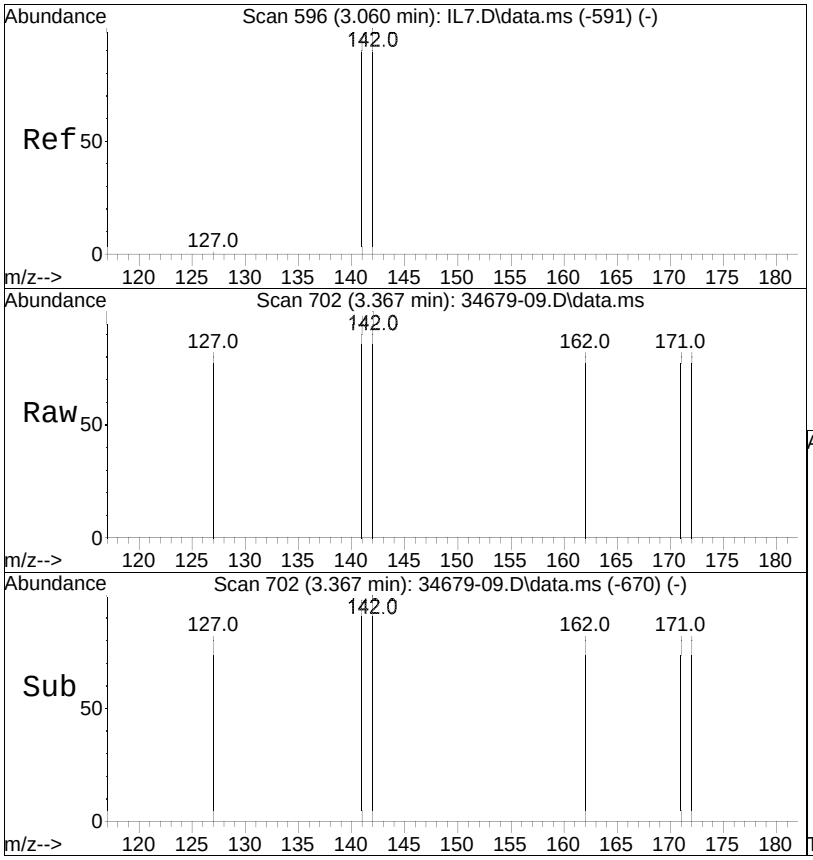


#9
Naphthalene
Concen: 14.39 ng/ml M4
RT: 2.985 min Scan# 585
Delta R.T. -0.002 min
Lab File: 34679-09.D
Acq: 24 Jun 2024 03:21 pm

Tgt Ion:128 Resp: 48

Ion	Ratio	Lower	Upper
128	100		
129	12.5	8.8	13.2
127	0.0	0.0	0.0

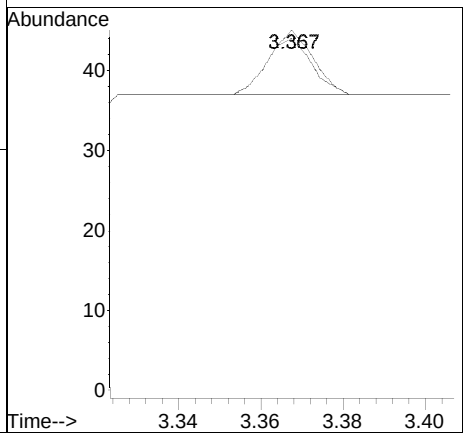


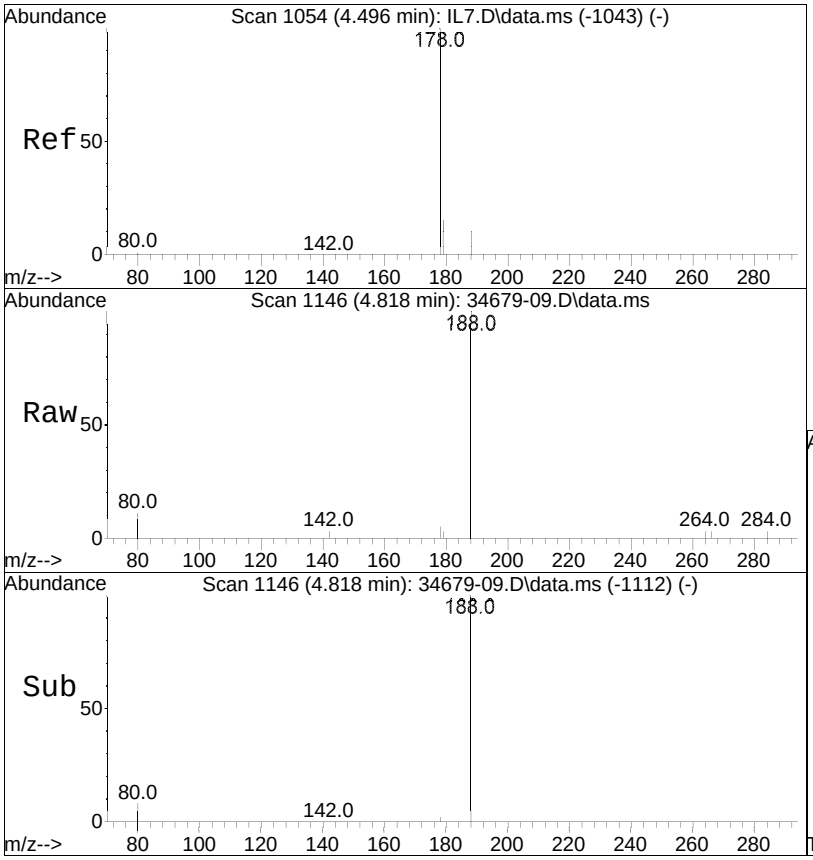


#11
2-Methylnaphthalene
Concen: 2.81 ng/ml M3
RT: 3.367 min Scan# 702
Delta R.T. -0.002 min
Lab File: 34679-09.D
Acq: 24 Jun 2024 03:21 pm

Tgt Ion:142 Resp: 6

Ion	Ratio	Lower	Upper
142	100		
141	83.3	75.9	113.9

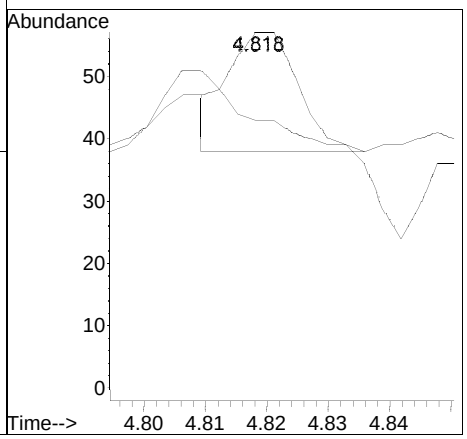




#26
Phenanthrene
Concen: 3.50 ng/ml M6
RT: 4.818 min Scan# 1146
Delta R.T. -0.005 min
Lab File: 34679-09.D
Acq: 24 Jun 2024 03:21 pm

Tgt Ion:178 Resp: 15

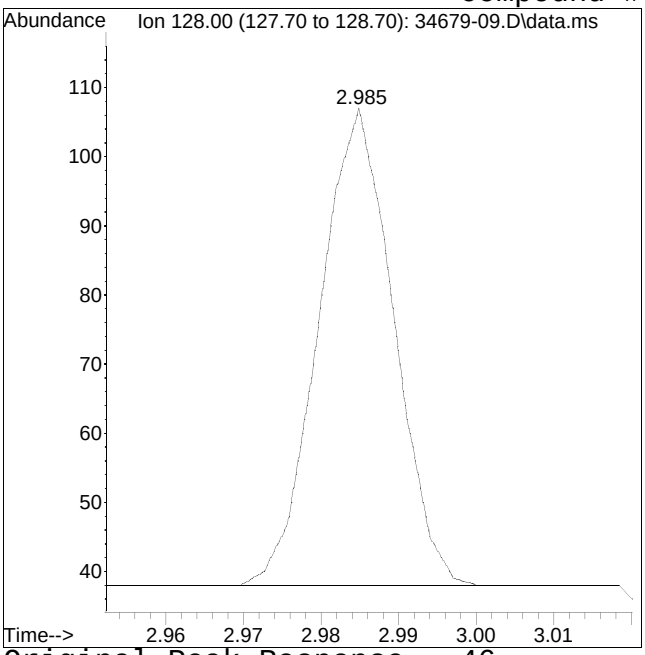
Ion	Ratio	Lower	Upper
178	100		
179	20.0	12.2	18.4#



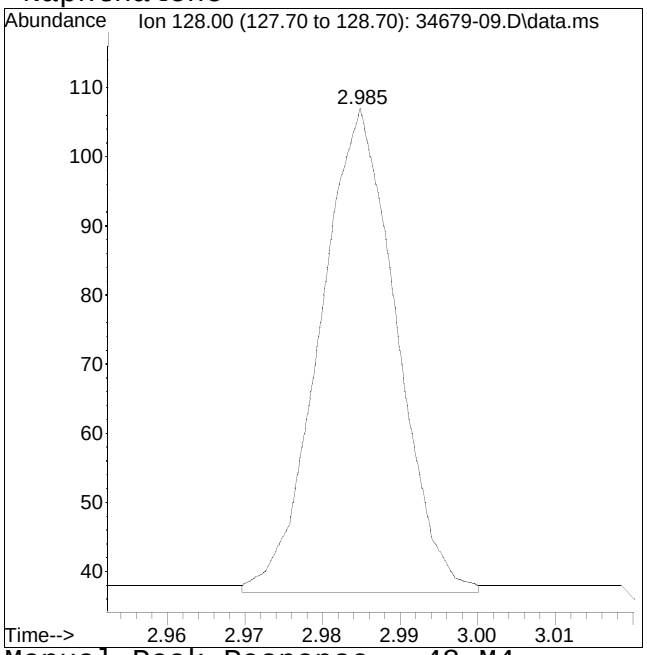
Manual Integration Report

Data Path	: I:\8270SIM\SV128\240624\	QMethod	: SIM-LVI_231211_sv128.M
Data File	: 34679-09.D	Operator	: SV128:jjw
Date Inj'd	: 6/24/2024 3:21 pm	Instrument	: SV128
Sample	: L2434679-09,32,,jjw	Quant Date	: 6/24/2024 3:34 pm

Compound #9: Naphthalene



Original Peak Response = 46



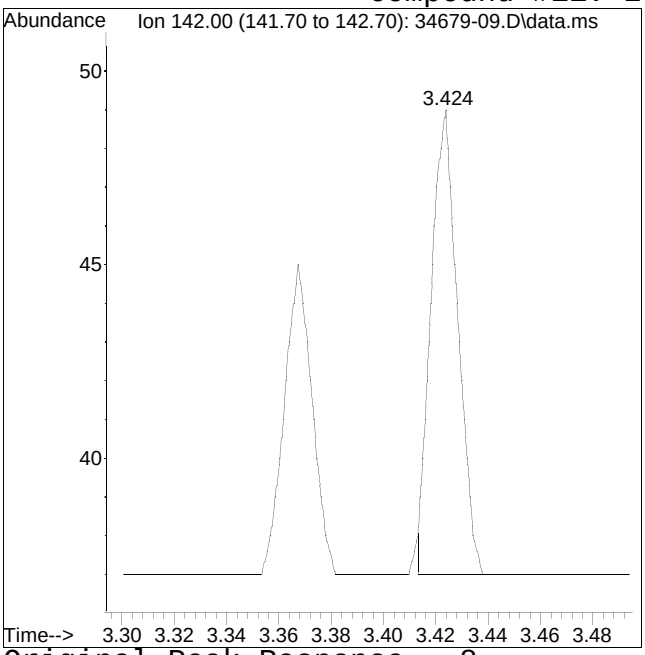
Manual Peak Response = 48 M4

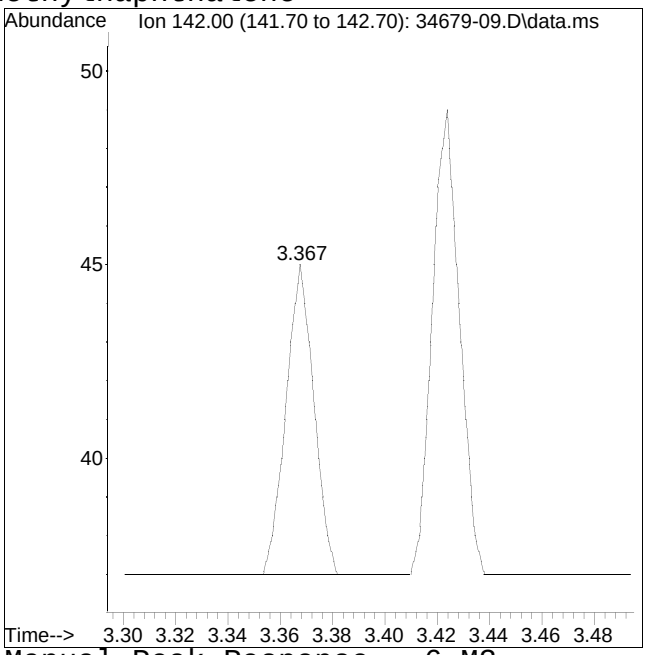
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\8270SIM\SV128\240624\ QMethod : SIM-LVI_231211_sv128.M
Data File : 34679-09.D Operator : SV128:jjw
Date Inj'd : 6/24/2024 3:21 pm Instrument : SV128
Sample : L2434679-09,32,,jjw Quant Date : 6/24/2024 3:34 pm

Compound #11: 2-Methylnaphthalene





Original Peak Response = 8 Manual Peak Response = 6 M3

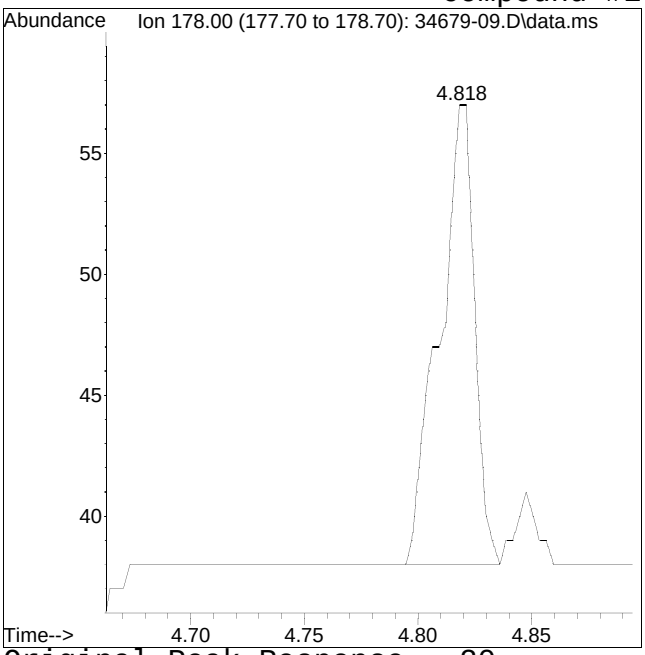
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

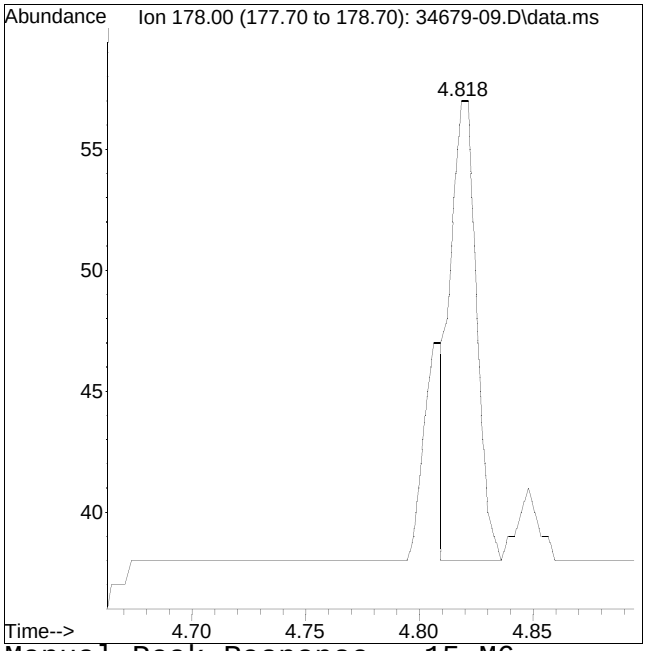
Data Path : I:\8270SIM\SV128\240624\
Data File : 34679-09.D
Date Inj'd : 6/24/2024 3:21 pm
Sample : L2434679-09,32,,jjw

QMethod : SIM-LVI_231211_sv128.M
Operator : SV128:jjw
Instrument : SV128
Quant Date : 6/24/2024 3:34 pm

Compound #26: Phenanthrene



Original Peak Response = 20



Manual Peak Response = 15 M6

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV128\240624\
Data File : 34679-11.D
Acq On : 24 Jun 2024 03:38 pm
Operator : SV128:jjw
Sample : L2434679-11,32,,jjw
Misc : WG1938533,WG1938280,ical20676
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Jun 27 14:31:03 2024
Quant Method : I:\8270sim\sv128\240624\SIM-LVI_231211_sv128.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 24 11:39:29 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270sim\sv128\240624\ccv0624.D
Sub List : DEFAULT - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.302	152	4350	4000.000	ng/ml	0.00
Standard Area 1 = 4069			Recovery = 106.91%			
8) Naphthalene-d8	2.975	136	15015	4000.000	ng/ml	0.00
Standard Area 1 = 14375			Recovery = 104.45%			
17) Acenaphthene-d10	3.958	164	8358	4000.000	ng/ml	0.00
Standard Area 1 = 8180			Recovery = 102.18%			
22) Phenanthrene-d10	4.808	188	18515	4000.000	ng/ml	0.00
Standard Area 1 = 17962			Recovery = 103.08%			
31) Chrysene-d12	6.386	240	16871	4000.000	ng/ml	0.00
Standard Area 1 = 16460			Recovery = 102.50%			
36) Perylene-d12	7.695	264	19157	4000.000	ng/ml	-0.02
Standard Area 1 = 18271			Recovery = 104.85%			
System Monitoring Compounds						
2) 2-Fluorophenol	1.695	112	2970	2711.333	ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 54.23%			
3) Phenol-d6	2.109	99	3001	2344.204	ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 46.88%			
7) Nitrobenzene-d5	2.587	82	2017	1949.606	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 77.98%			
13) 2-Fluorobiphenyl	3.574	172	4867	1528.462	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 61.14%			
21) 2,4,6-Tribromophenol	4.410	330	1299	3110.168	ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 62.20%			
30) 4-Terphenyl-d14	5.730	244	5976	1549.252	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 61.97%			

Target Compounds			Qvalue
6) Hexachloroethane	0.000	0	N.D.
9) Naphthalene	0.000	0	N.D.
10) Hexachlorobutadiene	0.000	0	N.D.
11) 2-Methylnaphthalene	0.000	0	N.D. d
14) 2-Chloronaphthalene	0.000	0	N.D.
16) Acenaphthylene	0.000	0	N.D.
18) Acenaphthene	0.000	0	N.D. d
20) Fluorene	0.000	0	N.D. d
24) Hexachlorobenzene	0.000	0	N.D. d
25) Pentachlorophenol	0.000	0	N.D.

Data Path : I:\8270SIM\SV128\240624\
Data File : 34679-11.D
Acq On : 24 Jun 2024 03:38 pm
Operator : SV128:jjw
Sample : L2434679-11,32,,jjw
Misc : WG1938533,WG1938280,ical20676
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Jun 27 14:31:03 2024
Quant Method : I:\8270sim\sv128\240624\SIM-LVI_231211_sv128.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 24 11:39:29 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270sim\sv128\240624\ccv0624.D
Sub List : DEFAULT - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
26) Phenanthrene	0.000		0	N.D.	d	
27) Anthracene	0.000		0	N.D.	d	
28) Fluoranthene	0.000		0	N.D.		
29) Pyrene	0.000		0	N.D.	d	
32) Benzo[a]anthracene	0.000		0	N.D.	d	
34) Chrysene	0.000		0	N.D.	d	
37) Benzo[b]fluoranthene	0.000		0	N.D.	d	
38) Benzo[k]fluoranthene	0.000		0	N.D.	d	
39) Benzo[a]pyrene	0.000		0	N.D.	d	
40) Indeno[1,2,3-cd]pyrene	0.000		0	N.D.		
41) Dibenzo[a,h]anthracene	0.000		0	N.D.		
42) Benzo[g,h,i]perylene	0.000		0	N.D.		

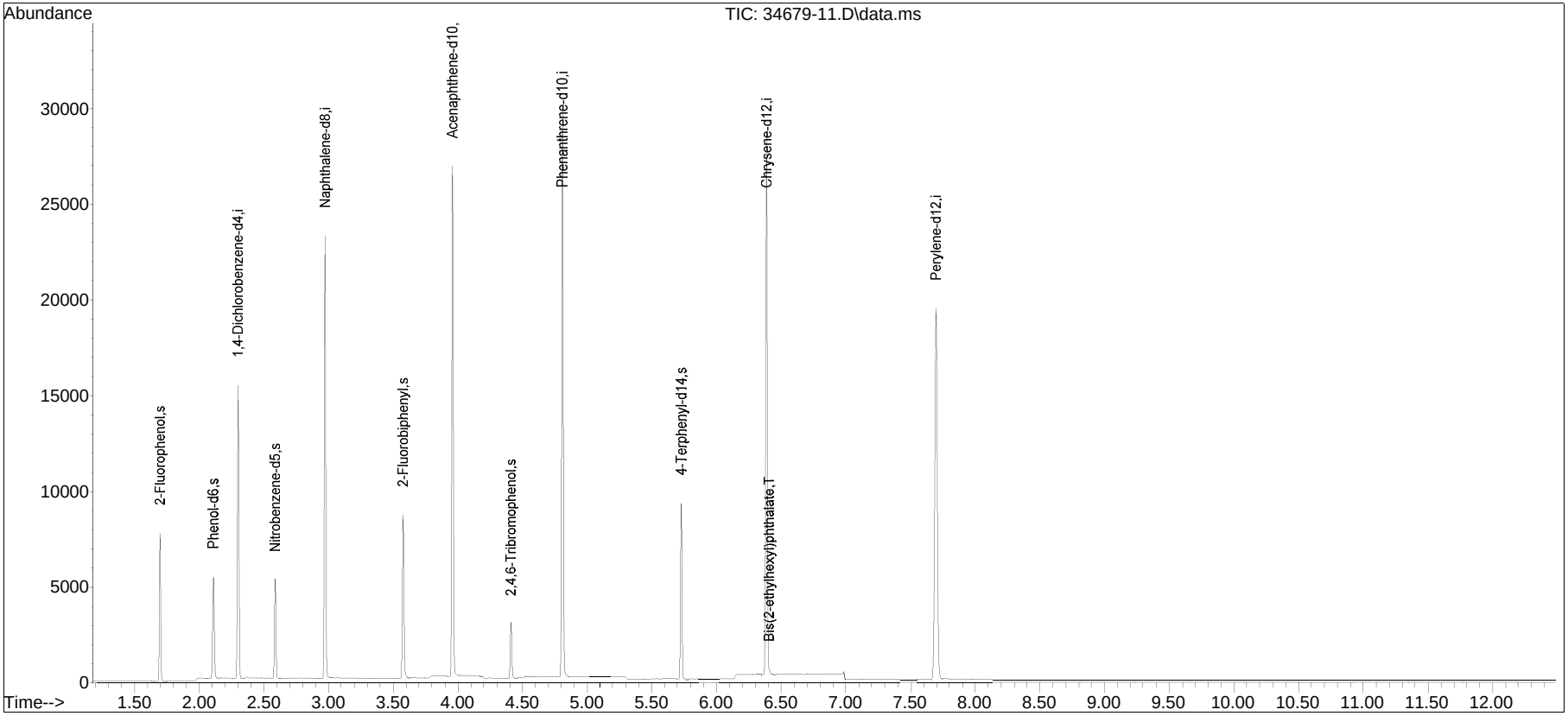
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV128\240624\
Data File : 34679-11.D
Acq On : 24 Jun 2024 03:38 pm
Operator : SV128:jjw
Sample : L2434679-11,32,,jjw
Misc : WG1938533,WG1938280,ical20676
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Jun 27 14:31:03 2024
Quant Method : I:\8270sim\sv128\240624\SIM-LVI_231211_sv128.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 24 11:39:29 2024
Response via : Initial Calibration

Sub List : DEFAULT - All compounds listedv0624.D•



Manual Integration Report

Data Path	: I:\8270SIM\SV128\240624\	QMethod	: SIM-LVI_231211_sv128.M
Data File	: 34679-11.D	Operator	: SV128:jjw
Date Inj'd	: 6/24/2024 3:38 pm	Instrument	: SV128
Sample	: L2434679-11,32,,jjw	Quant Date	: 6/24/2024 3:51 pm

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV128\240624\
Data File : 34679-12.D
Acq On : 24 Jun 2024 03:54 pm
Operator : SV128:jjw
Sample : L2434679-12,32,,jjw
Misc : WG1938533,WG1938280,ical20676
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Jun 27 14:32:22 2024
Quant Method : I:\8270sim\sv128\240624\SIM-LVI_231211_sv128.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 24 11:39:29 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270sim\sv128\240624\ccv0624.D
Sub List : DEFAULT - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.302	152	4165	4000.000	ng/ml	0.00
Standard Area 1 = 4069			Recovery = 102.36%			
8) Naphthalene-d8	2.975	136	14440	4000.000	ng/ml	0.00
Standard Area 1 = 14375			Recovery = 100.45%			
17) Acenaphthene-d10	3.958	164	8098	4000.000	ng/ml	0.00
Standard Area 1 = 8180			Recovery = 99.00%			
22) Phenanthrene-d10	4.808	188	17819	4000.000	ng/ml	0.00
Standard Area 1 = 17962			Recovery = 99.20%			
31) Chrysene-d12	6.386	240	16285	4000.000	ng/ml	0.00
Standard Area 1 = 16460			Recovery = 98.94%			
36) Perylene-d12	7.695	264	18512	4000.000	ng/ml	-0.02
Standard Area 1 = 18271			Recovery = 101.32%			
System Monitoring Compounds						
2) 2-Fluorophenol	1.695	112	3392	3234.123	ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 64.68%			
3) Phenol-d6	2.108	99	3421	2790.981	ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 55.82%			
7) Nitrobenzene-d5	2.587	82	2252	2273.441	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 90.94%			
13) 2-Fluorobiphenyl	3.574	172	5438	1775.787	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 71.03%			
21) 2,4,6-Tribromophenol	4.410	330	1515	3743.794	ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 74.88%			
30) 4-Terphenyl-d14	5.730	244	6761	1821.222	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 72.85%			
Target Compounds						Qvalue
6) Hexachloroethane	0.000		0	N.D.		
9) Naphthalene	2.984	128	29M1	7.831	ng/ml	
10) Hexachlorobutadiene	0.000		0	N.D.		
11) 2-Methylnaphthalene	0.000		0	N.D.	d	
14) 2-Chloronaphthalene	0.000		0	N.D.		
16) Acenaphthylene	0.000		0	N.D.		
18) Acenaphthene	0.000		0	N.D.	d	
20) Fluorene	0.000		0	N.D.	d	
24) Hexachlorobenzene	0.000		0	N.D.	d	
25) Pentachlorophenol	0.000		0	N.D.		

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV128\240624\
Data File : 34679-12.D
Acq On : 24 Jun 2024 03:54 pm
Operator : SV128:jjw
Sample : L2434679-12,32,,jjw
Misc : WG1938533,WG1938280,ical20676
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Jun 27 14:32:22 2024
Quant Method : I:\8270sim\sv128\240624\SIM-LVI_231211_sv128.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 24 11:39:29 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270sim\sv128\240624\ccv0624.D
Sub List : DEFAULT - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
26) Phenanthrene	4.819	178	10M6	2.075	ng/ml	
27) Anthracene	0.000		0	N.D.	d	
28) Fluoranthene	0.000		0	N.D.		
29) Pyrene	0.000		0	N.D.	d	
32) Benzo[a]anthracene	0.000		0	N.D.	d	
34) Chrysene	0.000		0	N.D.	d	
37) Benzo[b]fluoranthene	0.000		0	N.D.		
38) Benzo[k]fluoranthene	0.000		0	N.D.		
39) Benzo[a]pyrene	0.000		0	N.D.	d	
40) Indeno[1,2,3-cd]pyrene	0.000		0	N.D.	d	
41) Dibenzo[a,h]anthracene	0.000		0	N.D.		
42) Benzo[g,h,i]perylene	0.000		0	N.D.		

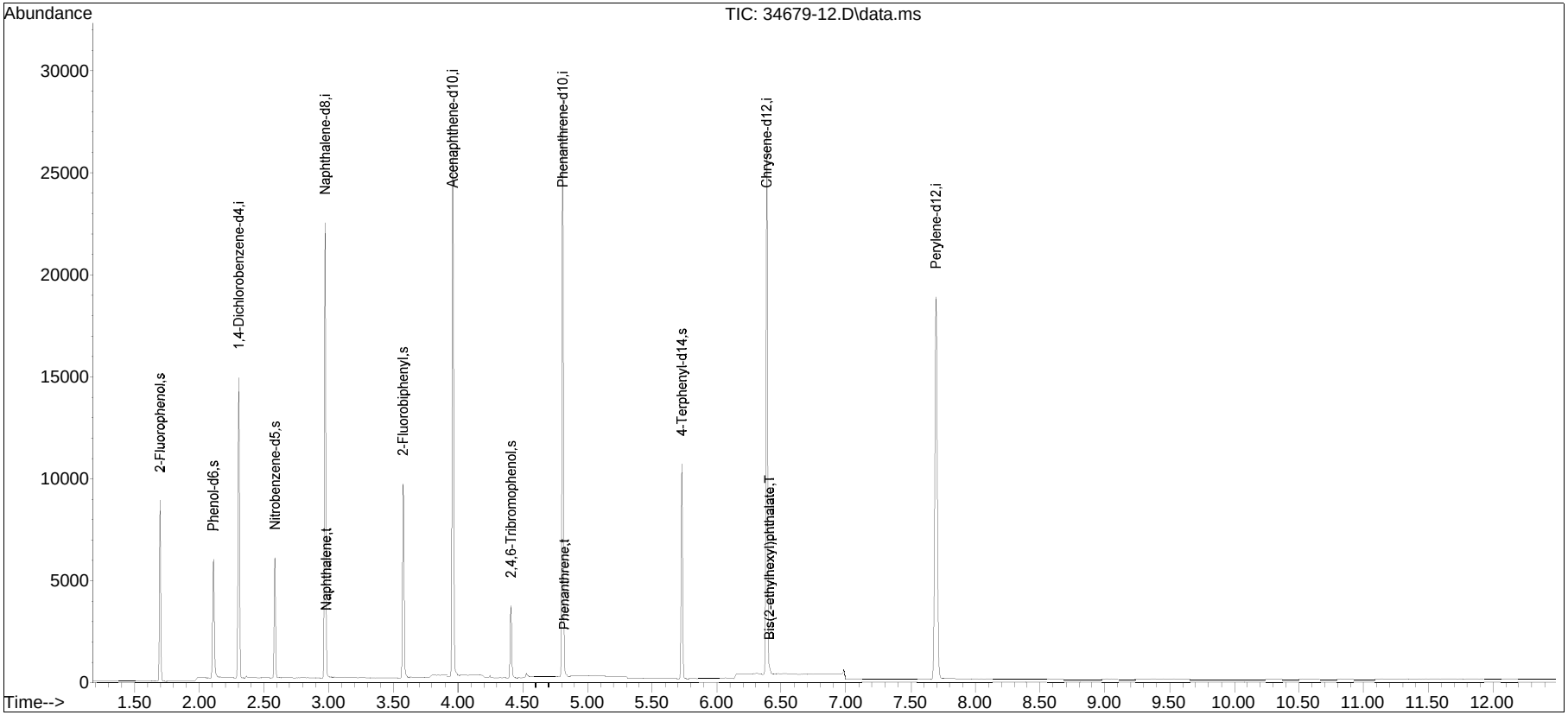
(#) = qualifier out of range (m) = manual integration (+) = signals summed

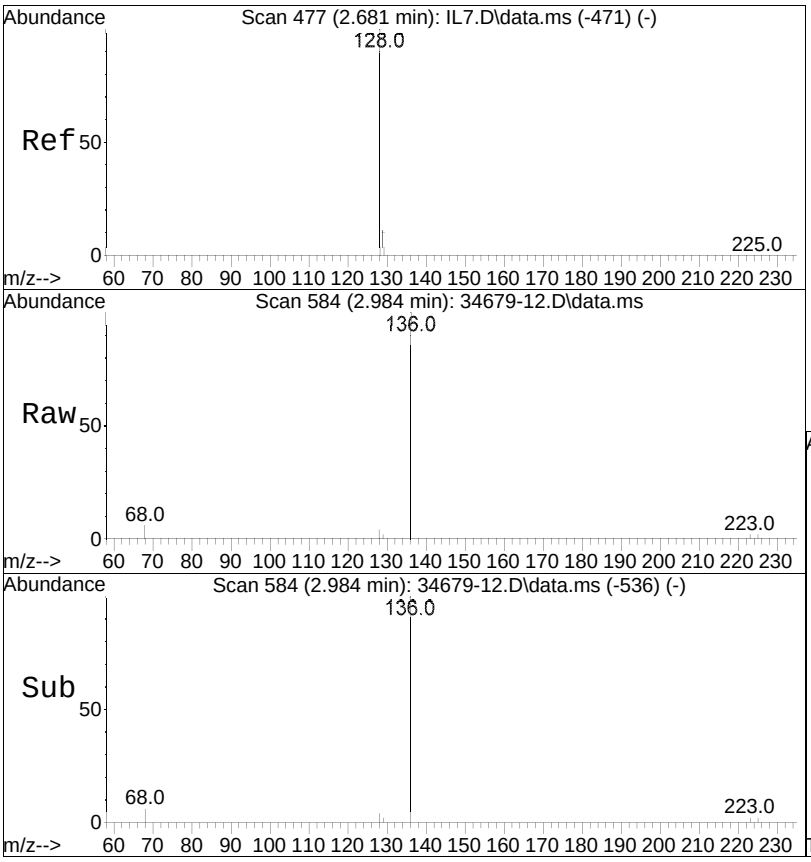
Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV128\240624\
Data File : 34679-12.D
Acq On : 24 Jun 2024 03:54 pm
Operator : SV128:jjw
Sample : L2434679-12,32,,jjw
Misc : WG1938533,WG1938280,ical20676
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Jun 27 14:32:22 2024
Quant Method : I:\8270sim\sv128\240624\SIM-LVI_231211_sv128.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 24 11:39:29 2024
Response via : Initial Calibration

Sub List : DEFAULT - All compounds listedv0624.D•

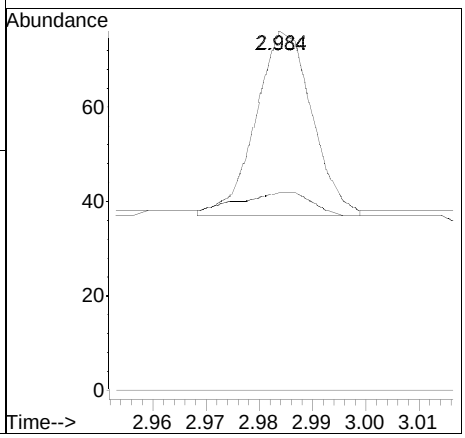


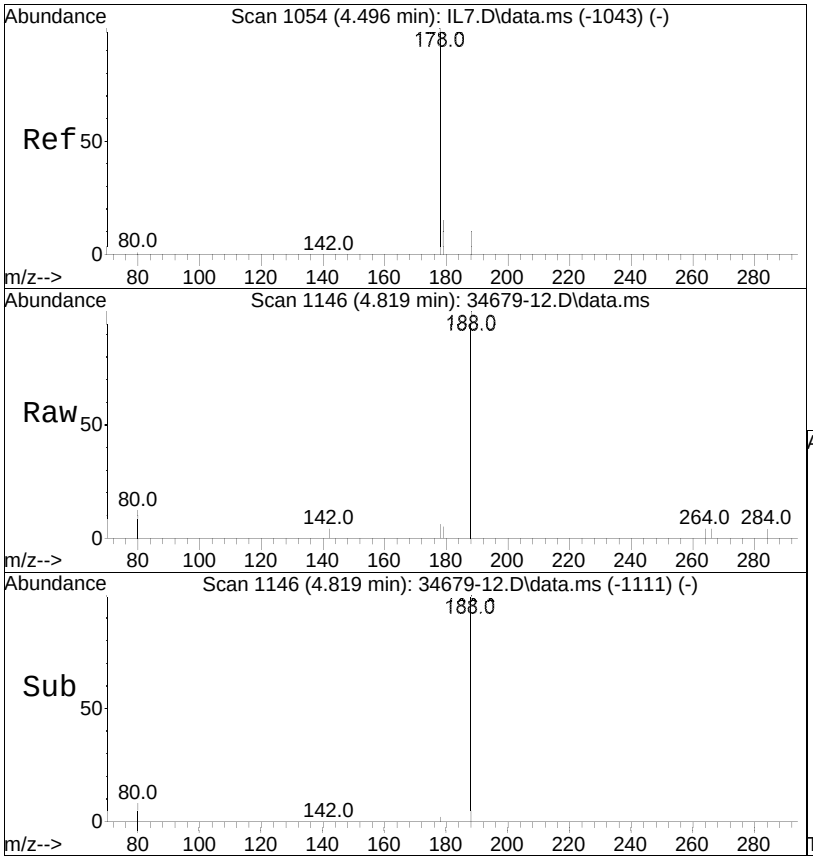


#9
Naphthalene
Concen: 7.83 ng/ml M1
RT: 2.984 min Scan# 584
Delta R.T. -0.003 min
Lab File: 34679-12.D
Acq: 24 Jun 2024 03:54 pm

Tgt Ion:128 Resp: 29

Ion	Ratio	Lower	Upper
128	100		
129	13.8	8.8	13.2#
127	0.0	0.0	0.0

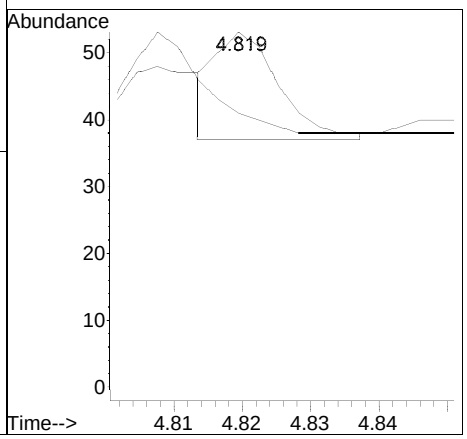




#26
Phenanthrene
Concen: 2.08 ng/ml M6
RT: 4.819 min Scan# 1146
Delta R.T. -0.004 min
Lab File: 34679-12.D
Acq: 24 Jun 2024 03:54 pm

Tgt Ion:178 Resp: 10

Ion	Ratio	Lower	Upper
178	100		
179	20.0	12.2	18.4#

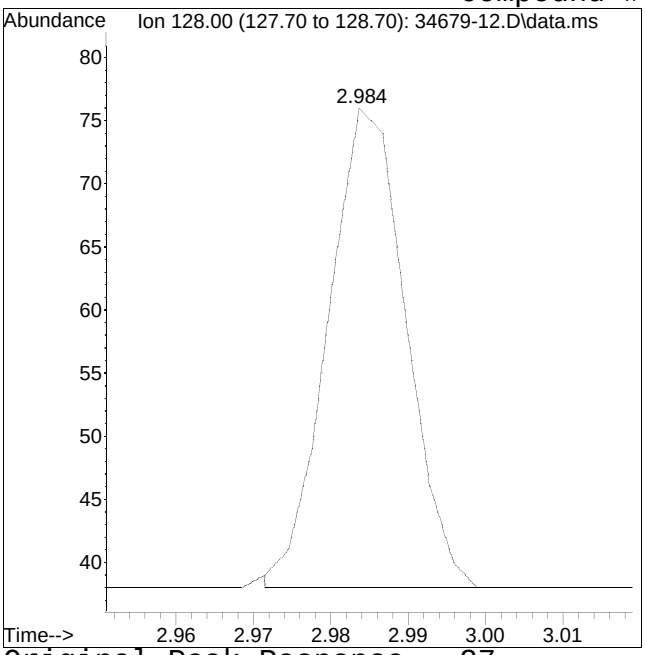


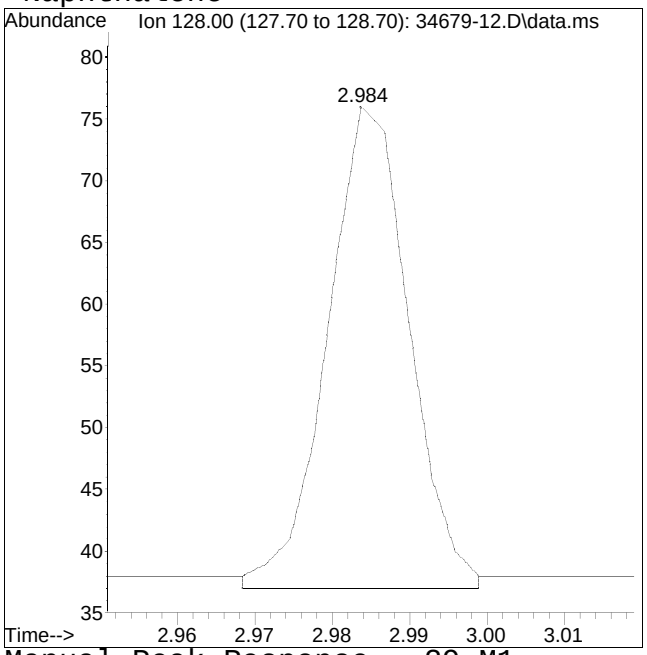
Manual Integration Report

Data Path : I:\8270SIM\SV128\240624\
Data File : 34679-12.D
Date Inj'd : 6/24/2024 3:54 pm
Sample : L2434679-12,32,,jjw

QMethod : SIM-LVI_231211_sv128.M
Operator : SV128:jjw
Instrument : SV128
Quant Date : 6/24/2024 4:08 pm

Compound #9: Naphthalene





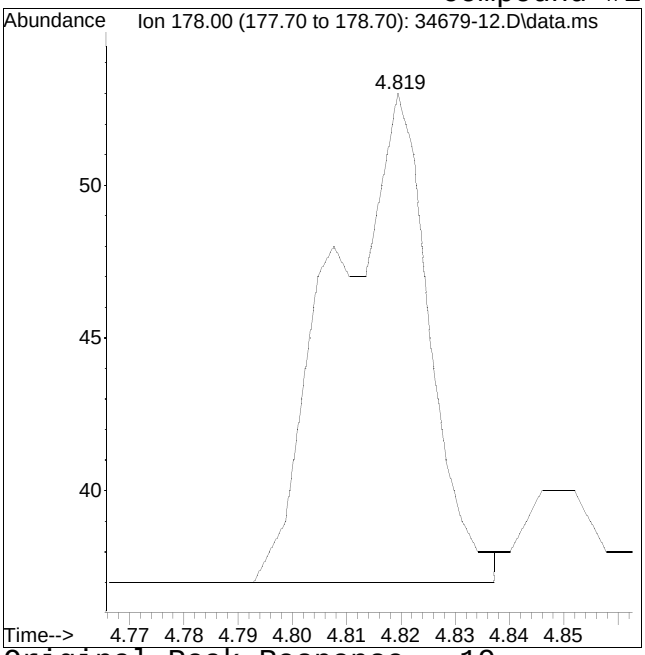
Original Peak Response = 27 Manual Peak Response = 29 M1

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

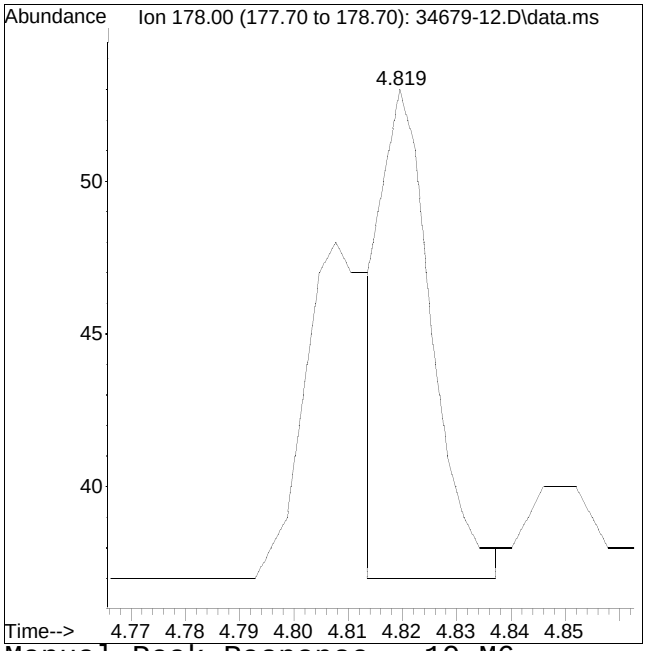
Manual Integration Report

Data Path : I:\8270SIM\SV128\240624\ QMethod : SIM-LVI_231211_sv128.M
Data File : 34679-12.D Operator : SV128:jjw
Date Inj'd : 6/24/2024 3:54 pm Instrument : SV128
Sample : L2434679-12,32,,jjw Quant Date : 6/24/2024 4:08 pm

Compound #26: Phenanthrene



Original Peak Response = 19



Manual Peak Response = 10 M6

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV128\240624\
Data File : 34679-14.D
Acq On : 24 Jun 2024 04:11 pm
Operator : SV128:jjw
Sample : L2434679-14,32,,jjw
Misc : WG1938533,WG1938280,ical20676
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Jun 27 14:33:39 2024
Quant Method : I:\8270sim\sv128\240624\SIM-LVI_231211_sv128.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 24 11:39:29 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270sim\sv128\240624\ccv0624.D
Sub List : DEFAULT - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.301	152	4389	4000.000	ng/ml	0.00
Standard Area 1 = 4069			Recovery = 107.86%			
8) Naphthalene-d8	2.974	136	15248	4000.000	ng/ml	0.00
Standard Area 1 = 14375			Recovery = 106.07%			
17) Acenaphthene-d10	3.960	164	8499	4000.000	ng/ml	0.00
Standard Area 1 = 8180			Recovery = 103.90%			
22) Phenanthrene-d10	4.807	188	18863	4000.000	ng/ml	0.00
Standard Area 1 = 17962			Recovery = 105.02%			
31) Chrysene-d12	6.388	240	17053	4000.000	ng/ml	0.00
Standard Area 1 = 16460			Recovery = 103.60%			
36) Perylene-d12	7.697	264	18980	4000.000	ng/ml	-0.02
Standard Area 1 = 18271			Recovery = 103.88%			
System Monitoring Compounds						
2) 2-Fluorophenol	1.695	112	3710	3356.789	ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 67.14%			
3) Phenol-d6	2.108	99	3808	2948.154	ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 58.96%			
7) Nitrobenzene-d5	2.586	82	2419	2317.397	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 92.70%			
13) 2-Fluorobiphenyl	3.576	172	5857	1811.261	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 72.45%			
21) 2,4,6-Tribromophenol	4.409	330	1549	3647.209	ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 72.94%			
30) 4-Terphenyl-d14	5.732	244	7062	1797.017	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 71.88%			
Target Compounds						Qvalue
6) Hexachloroethane	0.000		0	N.D.		
9) Naphthalene	2.986	128	67M1	17.135	ng/ml	
10) Hexachlorobutadiene	0.000		0	N.D.		
11) 2-Methylnaphthalene	0.000		0	N.D.	d	
14) 2-Chloronaphthalene	0.000		0	N.D.		
16) Acenaphthylene	0.000		0	N.D.		
18) Acenaphthene	0.000		0	N.D.	d	
20) Fluorene	0.000		0	N.D.	d	
24) Hexachlorobenzene	0.000		0	N.D.	d	
25) Pentachlorophenol	0.000		0	N.D.		

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV128\240624\
Data File : 34679-14.D
Acq On : 24 Jun 2024 04:11 pm
Operator : SV128:jjw
Sample : L2434679-14,32,,jjw
Misc : WG1938533,WG1938280,ical20676
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Jun 27 14:33:39 2024
Quant Method : I:\8270sim\sv128\240624\SIM-LVI_231211_sv128.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 24 11:39:29 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270sim\sv128\240624\ccv0624.D
Sub List : DEFAULT - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
26) Phenanthrene	4.819	178	14M6	2.745	ng/ml	
27) Anthracene	0.000		0	N.D.		d
28) Fluoranthene	0.000		0	N.D.		d
29) Pyrene	0.000		0	N.D.		d
32) Benzo[a]anthracene	0.000		0	N.D.		d
34) Chrysene	0.000		0	N.D.		d
37) Benzo[b]fluoranthene	0.000		0	N.D.		
38) Benzo[k]fluoranthene	0.000		0	N.D.		
39) Benzo[a]pyrene	0.000		0	N.D.		d
40) Indeno[1,2,3-cd]pyrene	0.000		0	N.D.		
41) Dibenzo[a,h]anthracene	0.000		0	N.D.		
42) Benzo[g,h,i]perylene	0.000		0	N.D.		

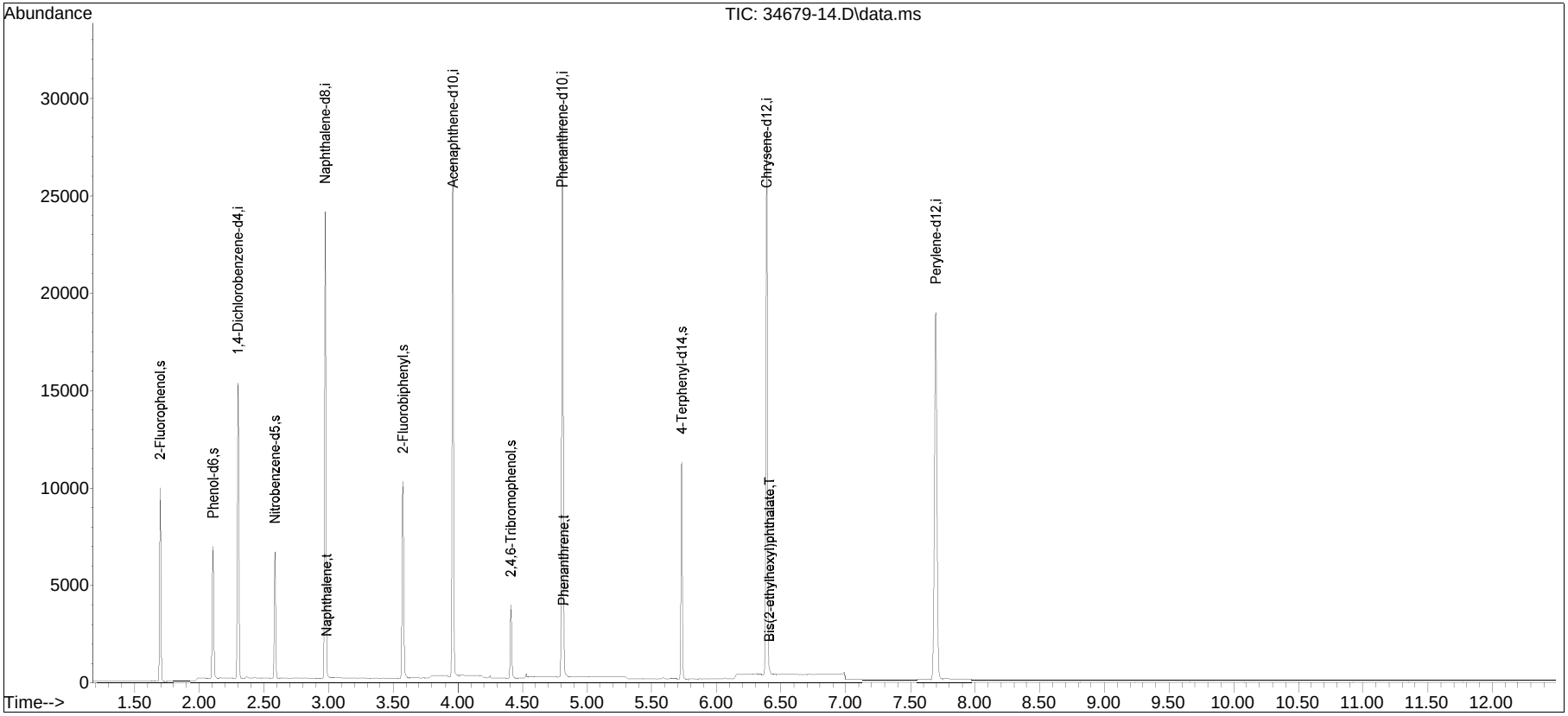
(#) = qualifier out of range (m) = manual integration (+) = signals summed

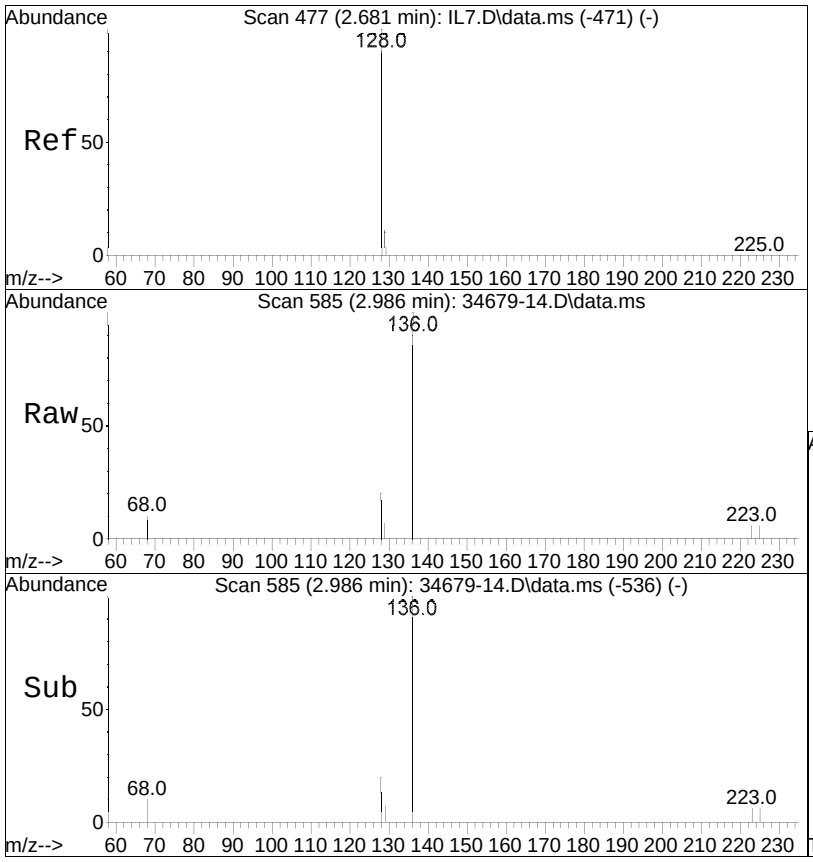
Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV128\240624\
Data File : 34679-14.D
Acq On : 24 Jun 2024 04:11 pm
Operator : SV128:jjw
Sample : L2434679-14,32,,jjw
Misc : WG1938533,WG1938280,ical20676
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Jun 27 14:33:39 2024
Quant Method : I:\8270sim\sv128\240624\SIM-LVI_231211_sv128.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 24 11:39:29 2024
Response via : Initial Calibration

Sub List : DEFAULT - All compounds listedv0624.D•

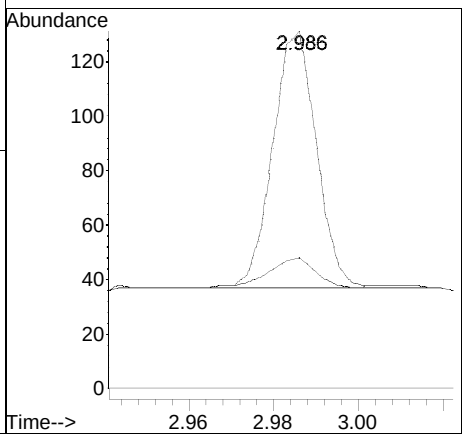


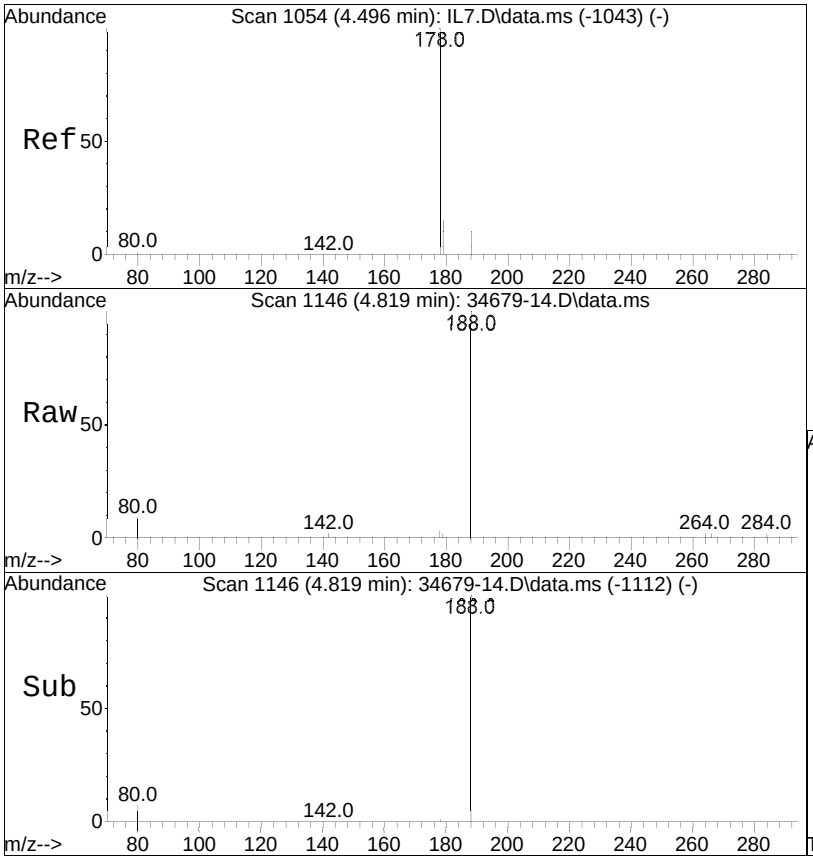


#9
Naphthalene
Concen: 17.13 ng/ml M1
RT: 2.986 min Scan# 585
Delta R.T. -0.001 min
Lab File: 34679-14.D
Acq: 24 Jun 2024 04:11 pm

Tgt Ion:128 Resp: 67

Ion	Ratio	Lower	Upper
128	100		
129	13.4	8.8	13.2#
127	0.0	0.0	0.0

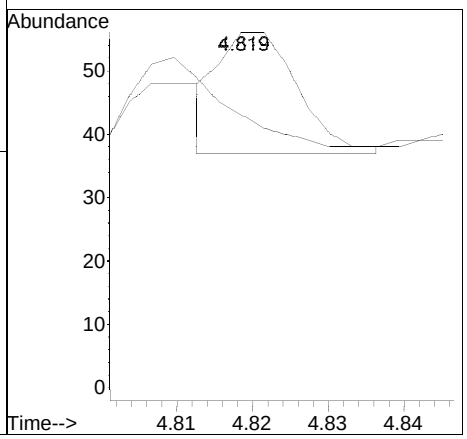




#26
Phenanthrene
Concen: 2.74 ng/ml M6
RT: 4.819 min Scan# 1146
Delta R.T. -0.005 min
Lab File: 34679-14.D
Acq: 24 Jun 2024 04:11 pm

Tgt Ion:178 Resp: 14

Ion	Ratio	Lower	Upper
178	100		
179	21.4	12.2	18.4#

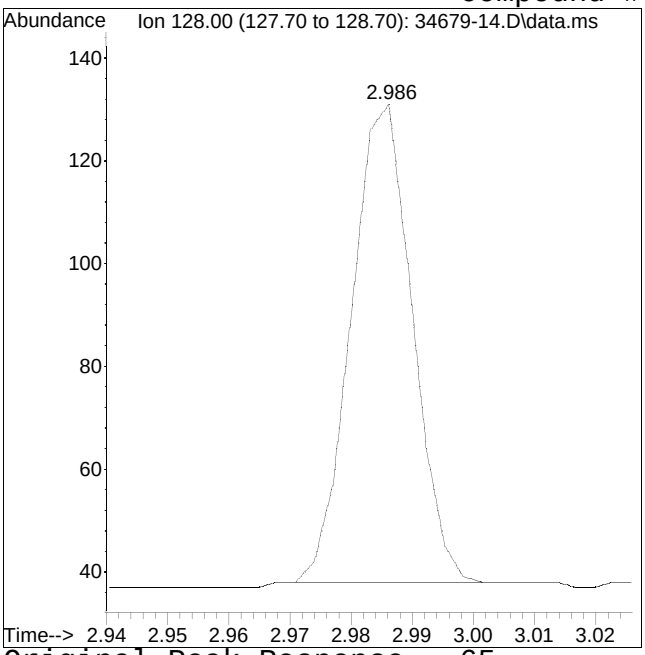


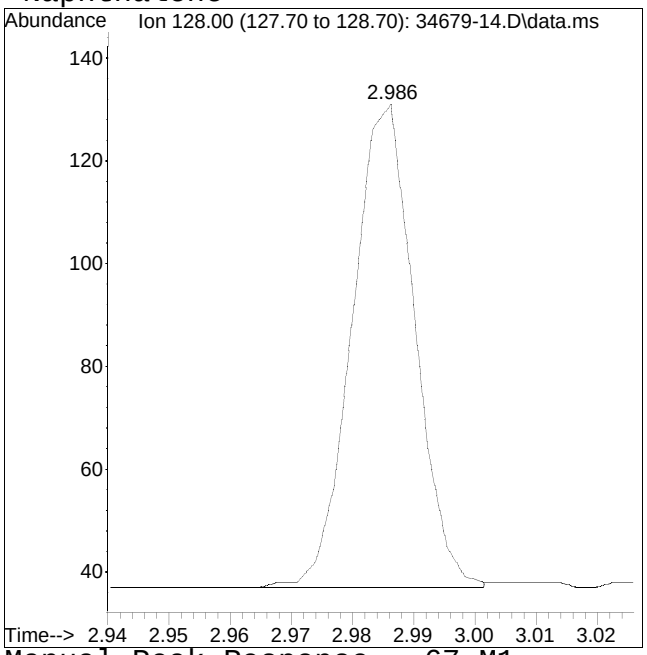
Manual Integration Report

Data Path : I:\8270SIM\SV128\240624\
Data File : 34679-14.D
Date Inj'd : 6/24/2024 4:11 pm
Sample : L2434679-14,32,,jjw

QMethod : SIM-LVI_231211_sv128.M
Operator : SV128:jjw
Instrument : SV128
Quant Date : 6/24/2024 4:24 pm

Compound #9: Naphthalene





Original Peak Response = 65 Manual Peak Response = 67 M1

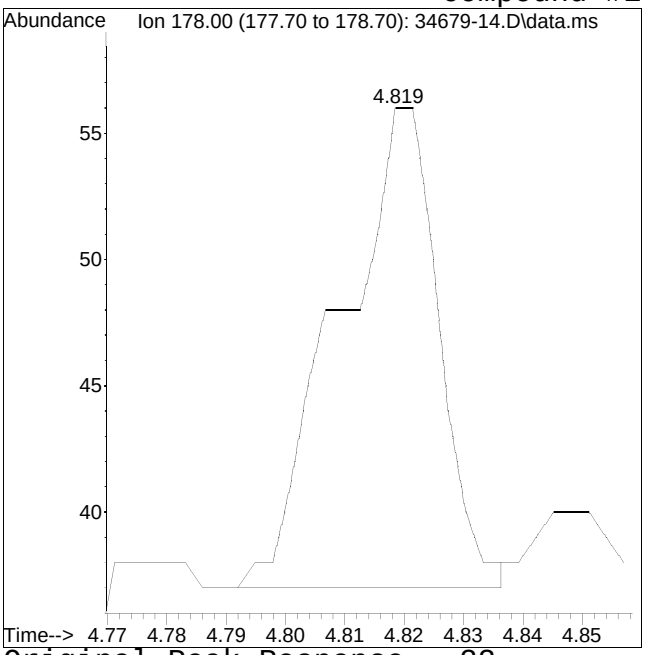
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Manual Integration Report

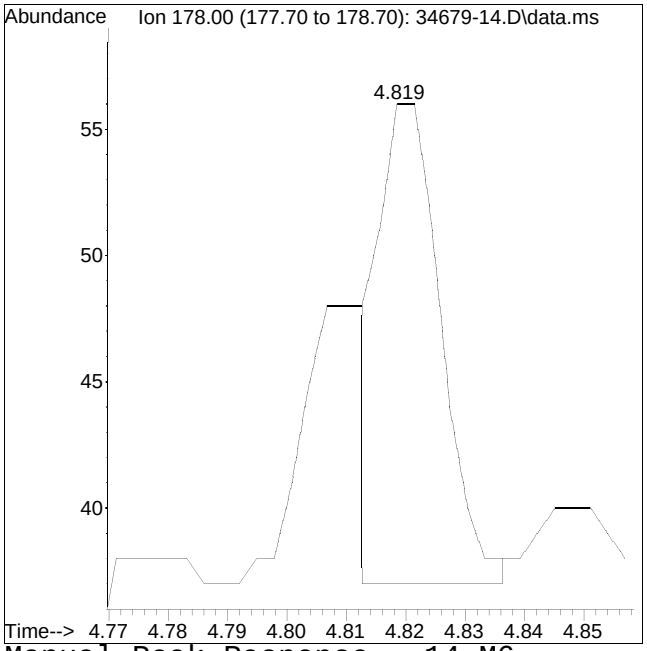
Data Path : I:\8270SIM\SV128\240624\
Data File : 34679-14.D
Date Inj'd : 6/24/2024 4:11 pm
Sample : L2434679-14,32,,jjw

QMethod : SIM-LVI_231211_sv128.M
Operator : SV128:jjw
Instrument : SV128
Quant Date : 6/24/2024 4:24 pm

Compound #26: Phenanthrene



Original Peak Response = 22



Manual Peak Response = 14 M6

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV128\240625\
Data File : 34679-01.D
Acq On : 25 Jun 2024 11:53 am
Operator : SV128:jjw
Sample : L2434679-01,32,,jjw
Misc : WG1939038,WG1938725,ical20676
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 27 15:28:20 2024
Quant Method : I:\8270sim\sv128\240625\SIM-LVI_231211_sv128.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Jun 25 10:22:00 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270sim\sv128\240625\ccv0625.D
Sub List : DEFAULT - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.302	152	3213	4000.000	ng/ml	0.00
Standard Area 1 = 3868			Recovery = 83.07%			
8) Naphthalene-d8	2.975	136	11506	4000.000	ng/ml	# 0.00
Standard Area 1 = 14097			Recovery = 81.62%			
17) Acenaphthene-d10	3.962	164	6875	4000.000	ng/ml	0.00
Standard Area 1 = 8577			Recovery = 80.16%			
22) Phenanthrene-d10	4.809	188	15991	4000.000	ng/ml	0.00
Standard Area 1 = 20055			Recovery = 79.74%			
31) Chrysene-d12	6.387	240	16332	4000.000	ng/ml	0.00
Standard Area 1 = 19835			Recovery = 82.34%			
36) Perylene-d12	7.696	264	19704	4000.000	ng/ml	0.00
Standard Area 1 = 22257			Recovery = 88.53%			
System Monitoring Compounds						
2) 2-Fluorophenol	1.690	112	2161	2670.913	ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 53.42%			
3) Phenol-d6	2.105	99	2154	2278.000	ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 45.56%			
7) Nitrobenzene-d5	2.584	82	1632	2135.697	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 85.43%			
13) 2-Fluorobiphenyl	3.578	172	3890	1594.204	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 63.77%			
21) 2,4,6-Tribromophenol	4.411	330	971	2826.335	ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 56.53%			
30) 4-Terphenyl-d14	5.731	244	5486	1646.704	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 65.87%			
Target Compounds						Qvalue
6) Hexachloroethane	0.000		0	N.D.		
9) Naphthalene	2.988	128	18M6	6.100	ng/ml	
10) Hexachlorobutadiene	0.000		0	N.D.		
11) 2-Methylnaphthalene	0.000		0	N.D.	d	
14) 2-Chloronaphthalene	0.000		0	N.D.	d	
16) Acenaphthylene	0.000		0	N.D.	d	
18) Acenaphthene	0.000		0	N.D.	d	
20) Fluorene	0.000		0	N.D.		
24) Hexachlorobenzene	0.000		0	N.D.	d	
25) Pentachlorophenol	0.000		0	N.D.		

Data Path : I:\8270SIM\SV128\240625\
Data File : 34679-01.D
Acq On : 25 Jun 2024 11:53 am
Operator : SV128:jjw
Sample : L2434679-01,32,,jjw
Misc : WG1939038,WG1938725,ical20676
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 27 15:28:20 2024
Quant Method : I:\8270sim\sv128\240625\SIM-LVI_231211_sv128.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Jun 25 10:22:00 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270sim\sv128\240625\ccv0625.D
Sub List : DEFAULT - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
26) Phenanthrene	4.821	178	11M6	2.544	ng/ml	
27) Anthracene	0.000		0	N.D.	d	
28) Fluoranthene	0.000		0	N.D.		
29) Pyrene	0.000		0	N.D.	d	
32) Benzo[a]anthracene	0.000		0	N.D.	d	
34) Chrysene	0.000		0	N.D.	d	
37) Benzo[b]fluoranthene	0.000		0	N.D.	d	
38) Benzo[k]fluoranthene	0.000		0	N.D.	d	
39) Benzo[a]pyrene	0.000		0	N.D.	d	
40) Indeno[1,2,3-cd]pyrene	0.000		0	N.D.		
41) Dibenzo[a,h]anthracene	0.000		0	N.D.		
42) Benzo[g,h,i]perylene	0.000		0	N.D.		

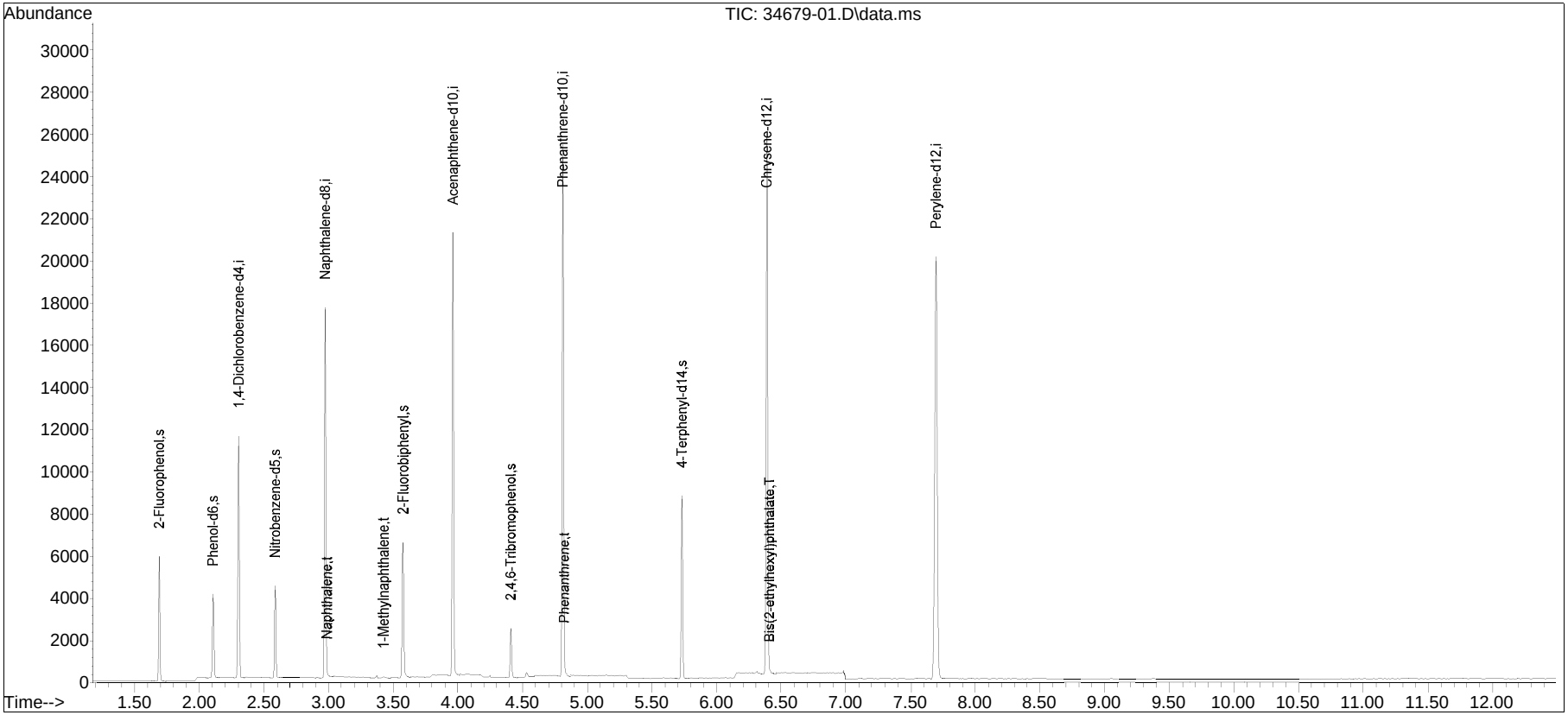
(#) = qualifier out of range (m) = manual integration (+) = signals summed

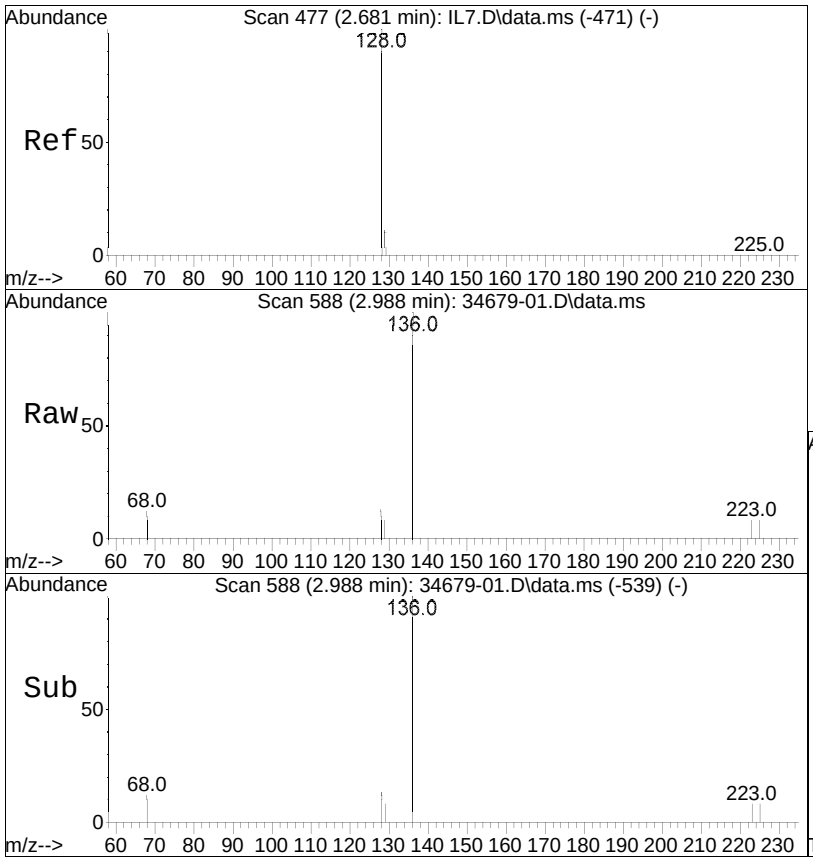
Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV128\240625\
Data File : 34679-01.D
Acq On : 25 Jun 2024 11:53 am
Operator : SV128:jjw
Sample : L2434679-01,32,,jjw
Misc : WG1939038,WG1938725,ical20676
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 27 15:28:20 2024
Quant Method : I:\8270sim\sv128\240625\SIM-LVI_231211_sv128.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Jun 25 10:22:00 2024
Response via : Initial Calibration

Sub List : DEFAULT - All compounds listedv0625.D•

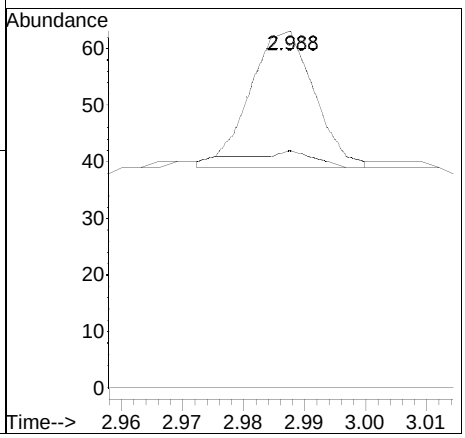


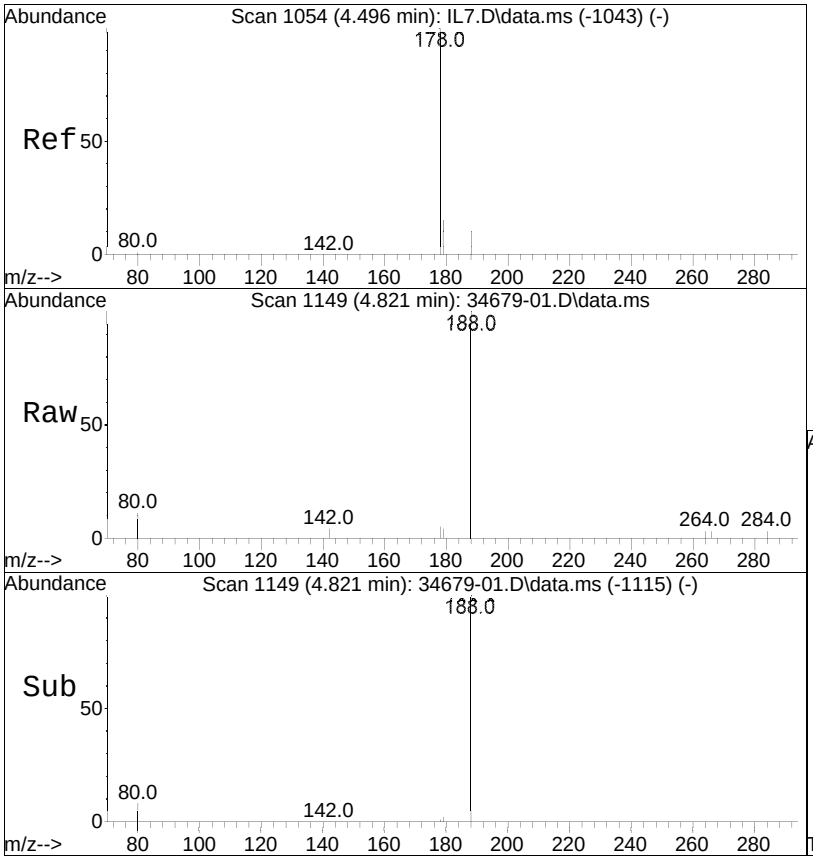


#9
Naphthalene
Concen: 6.10 ng/ml M6
RT: 2.988 min Scan# 588
Delta R.T. -0.000 min
Lab File: 34679-01.D
Acq: 25 Jun 2024 11:53 am

Tgt Ion:128 Resp: 18

Ion	Ratio	Lower	Upper
128	100		
129	11.1	8.8	13.2
127	0.0	0.0	0.0

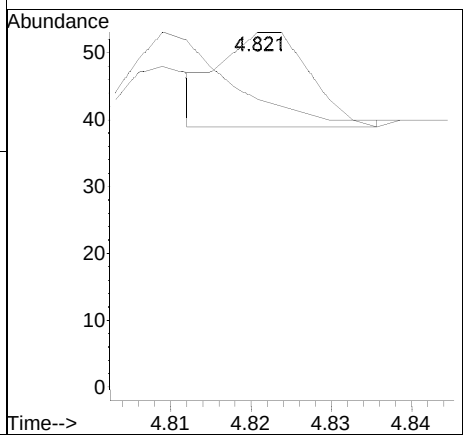




#26
Phenanthrene
Concen: 2.54 ng/ml M6
RT: 4.821 min Scan# 1149
Delta R.T. -0.005 min
Lab File: 34679-01.D
Acq: 25 Jun 2024 11:53 am

Tgt Ion:178 Resp: 11

Ion	Ratio	Lower	Upper
178	100		
179	18.2	12.2	18.4

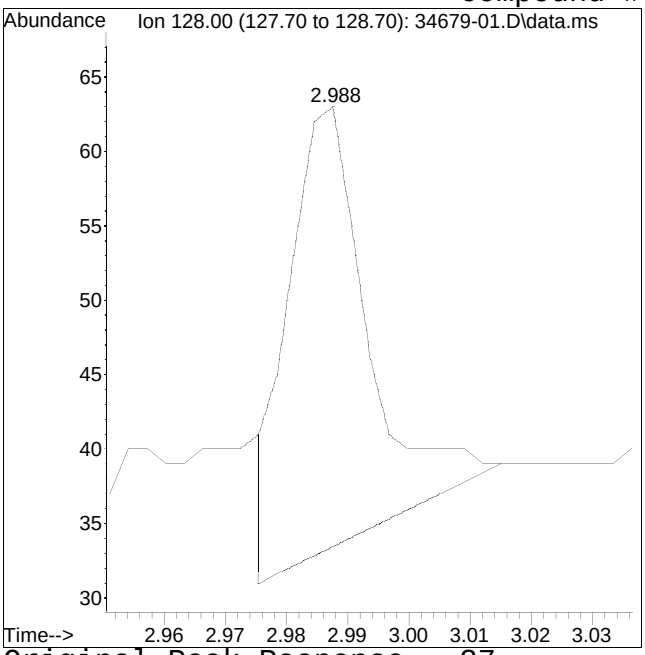


Manual Integration Report

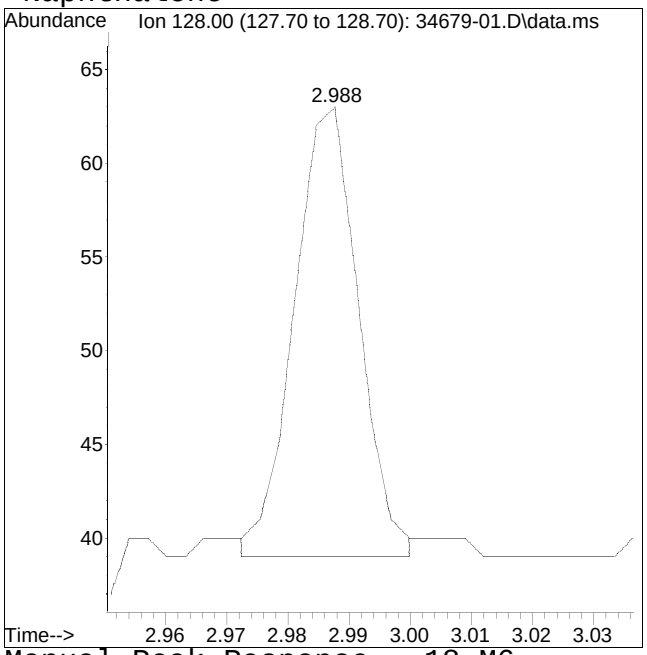
Data Path : I:\8270SIM\SV128\240625\
Data File : 34679-01.D
Date Inj'd : 6/25/2024 11:53 am
Sample : L2434679-01,32,,jjw

QMethod : SIM-LVI_231211_sv128.M
Operator : SV128:jjw
Instrument : SV128
Quant Date : 6/25/2024 12:11 pm

Compound #9: Naphthalene



Original Peak Response = 27



Manual Peak Response = 18 M6

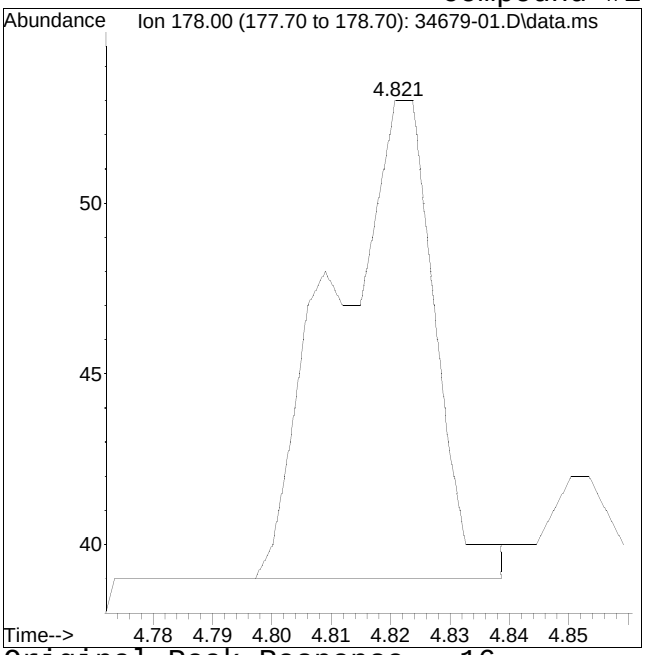
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

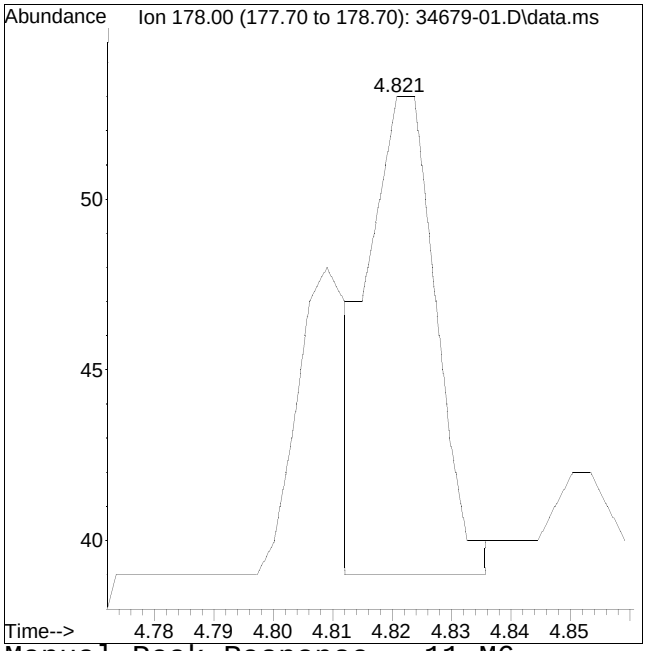
Data Path : I:\8270SIM\SV128\240625\
Data File : 34679-01.D
Date Inj'd : 6/25/2024 11:53 am
Sample : L2434679-01,32,,jjw

QMethod : SIM-LVI_231211_sv128.M
Operator : SV128:jjw
Instrument : SV128
Quant Date : 6/25/2024 12:11 pm

Compound #26: Phenanthrene



Original Peak Response = 16



Manual Peak Response = 11 M6

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV128\240625\
Data File : 34679-10.D
Acq On : 25 Jun 2024 12:10 pm
Operator : SV128:jjw
Sample : L2434679-10,32,,jjw
Misc : WG1939038,WG1938725,ical20676
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 27 15:29:31 2024
Quant Method : I:\8270sim\sv128\240625\SIM-LVI_231211_sv128.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Jun 25 10:22:00 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270sim\sv128\240625\ccv0625.D
Sub List : DEFAULT - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.301	152	3302	4000.000	ng/ml	0.00
Standard Area 1 = 3868			Recovery = 85.37%			
8) Naphthalene-d8	2.977	136	11649	4000.000	ng/ml	0.00
Standard Area 1 = 14097			Recovery = 82.63%			
17) Acenaphthene-d10	3.963	164	6896	4000.000	ng/ml	0.00
Standard Area 1 = 8577			Recovery = 80.40%			
22) Phenanthrene-d10	4.812	188	16157	4000.000	ng/ml	0.00
Standard Area 1 = 20055			Recovery = 80.56%			
31) Chrysene-d12	6.390	240	16424	4000.000	ng/ml	0.00
Standard Area 1 = 19835			Recovery = 82.80%			
36) Perylene-d12	7.699	264	19276	4000.000	ng/ml	0.00
Standard Area 1 = 22257			Recovery = 86.61%			
System Monitoring Compounds						
2) 2-Fluorophenol	1.690	112	2341	2815.400	ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 56.31%			
3) Phenol-d6	2.104	99	2298	2364.785	ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 47.30%			
7) Nitrobenzene-d5	2.586	82	1797	2288.238	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 91.53%			
13) 2-Fluorobiphenyl	3.579	172	4253	1721.573	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 68.86%			
21) 2,4,6-Tribromophenol	4.412	330	1194	3464.848	ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 69.30%			
30) 4-Terphenyl-d14	5.734	244	6272	1863.291	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 74.53%			
Target Compounds						Qvalue
6) Hexachloroethane	0.000		0	N.D.		
9) Naphthalene	2.986	128	16M1	5.356	ng/ml	
10) Hexachlorobutadiene	0.000		0	N.D.		
11) 2-Methylnaphthalene	0.000		0	N.D.	d	
14) 2-Chloronaphthalene	0.000		0	N.D.		
16) Acenaphthylene	0.000		0	N.D.		
18) Acenaphthene	0.000		0	N.D.		
20) Fluorene	0.000		0	N.D.	d	
24) Hexachlorobenzene	0.000		0	N.D.	d	
25) Pentachlorophenol	0.000		0	N.D.		

Data Path : I:\8270SIM\SV128\240625\
Data File : 34679-10.D
Acq On : 25 Jun 2024 12:10 pm
Operator : SV128:jjw
Sample : L2434679-10,32,,jjw
Misc : WG1939038,WG1938725,ical20676
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 27 15:29:31 2024
Quant Method : I:\8270sim\sv128\240625\SIM-LVI_231211_sv128.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Jun 25 10:22:00 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270sim\sv128\240625\ccv0625.D
Sub List : DEFAULT - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
26) Phenanthrene	0.000		0	N.D.	d	
27) Anthracene	0.000		0	N.D.	d	
28) Fluoranthene	0.000		0	N.D.		
29) Pyrene	0.000		0	N.D.	d	
32) Benzo[a]anthracene	0.000		0	N.D.	d	
34) Chrysene	0.000		0	N.D.	d	
37) Benzo[b]fluoranthene	0.000		0	N.D.	d	
38) Benzo[k]fluoranthene	0.000		0	N.D.	d	
39) Benzo[a]pyrene	0.000		0	N.D.	d	
40) Indeno[1,2,3-cd]pyrene	0.000		0	N.D.		
41) Dibenzo[a,h]anthracene	0.000		0	N.D.	d	
42) Benzo[g,h,i]perylene	0.000		0	N.D.	d	

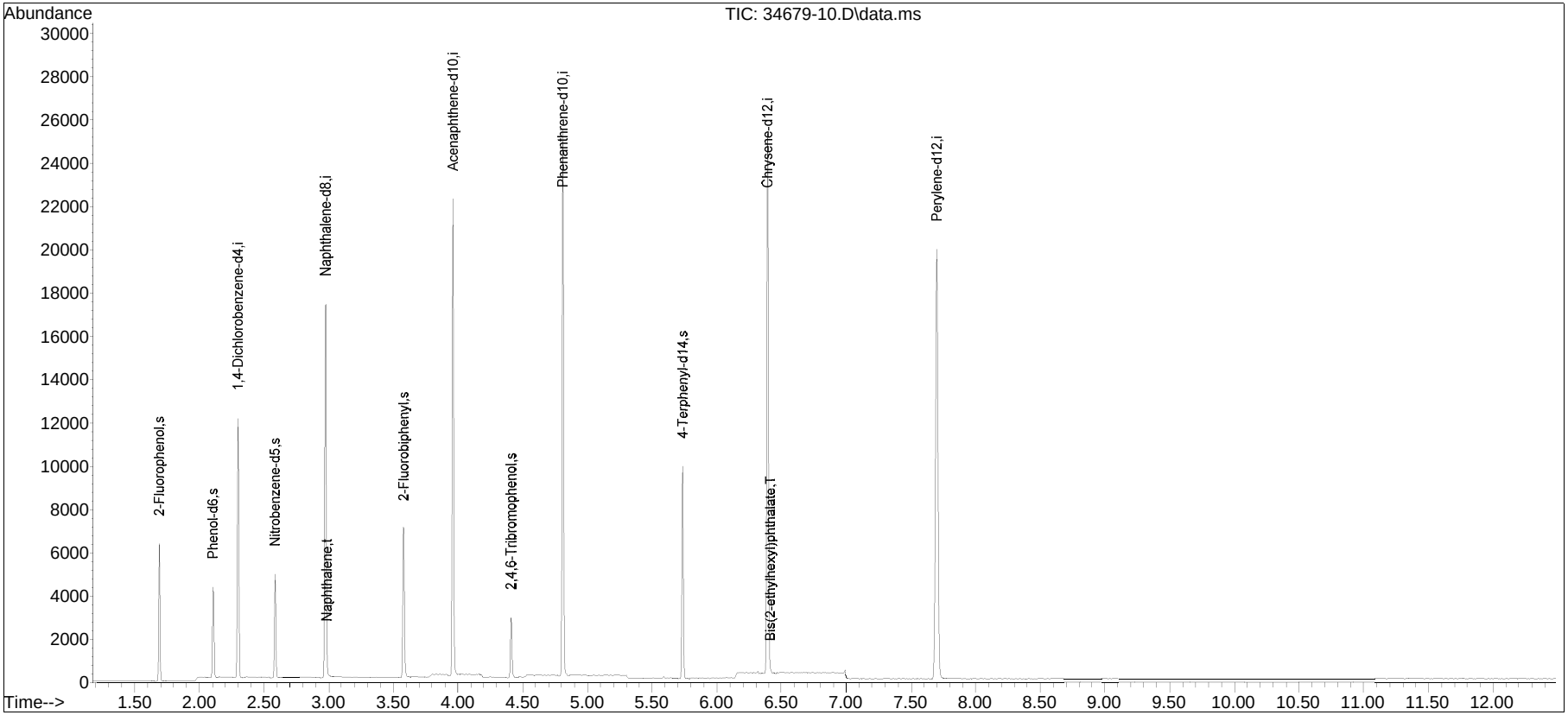
(#) = qualifier out of range (m) = manual integration (+) = signals summed

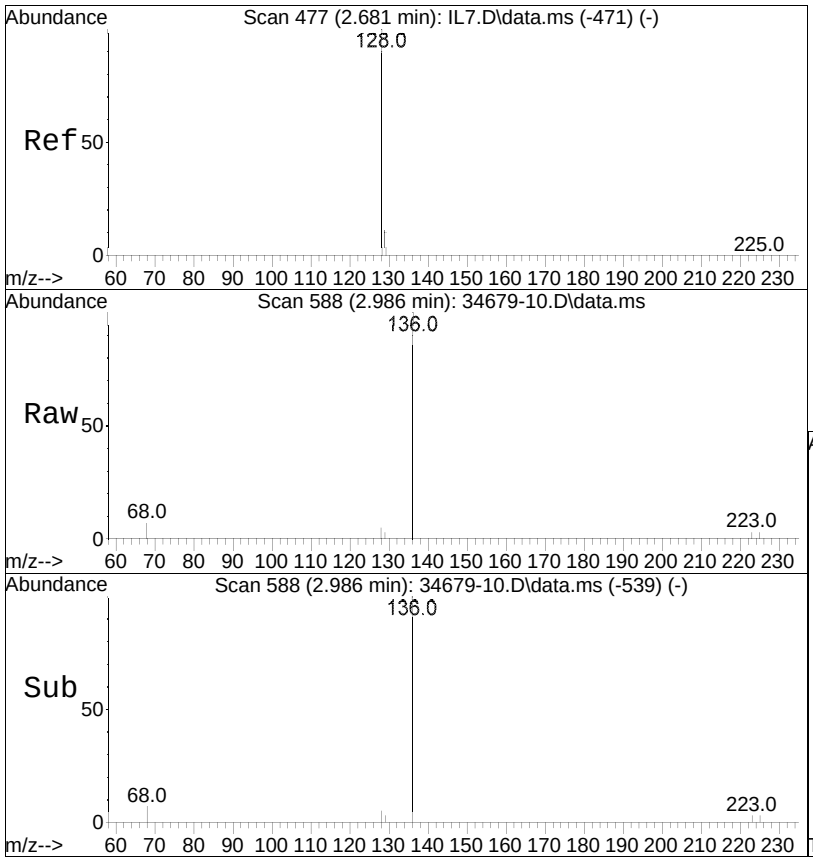
Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV128\240625\
Data File : 34679-10.D
Acq On : 25 Jun 2024 12:10 pm
Operator : SV128:jjw
Sample : L2434679-10,32,,jjw
Misc : WG1939038,WG1938725,ical20676
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 27 15:29:31 2024
Quant Method : I:\8270sim\sv128\240625\SIM-LVI_231211_sv128.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Jun 25 10:22:00 2024
Response via : Initial Calibration

Sub List : DEFAULT - All compounds listedv0625.D•

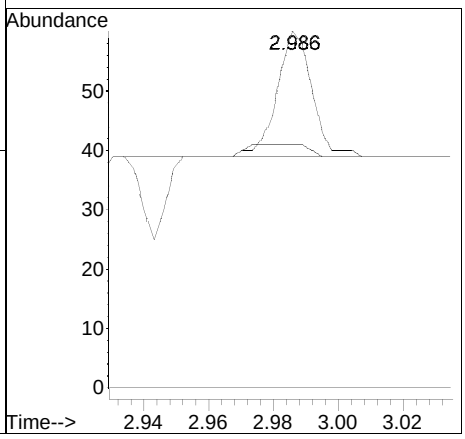




#9
Naphthalene
Concen: 5.36 ng/ml M1
RT: 2.986 min Scan# 588
Delta R.T. -0.002 min
Lab File: 34679-10.D
Acq: 25 Jun 2024 12:10 pm

Tgt Ion:128 Resp: 16

Ion	Ratio	Lower	Upper
128	100		
129	18.8	8.8	13.2#
127	0.0	0.0	0.0

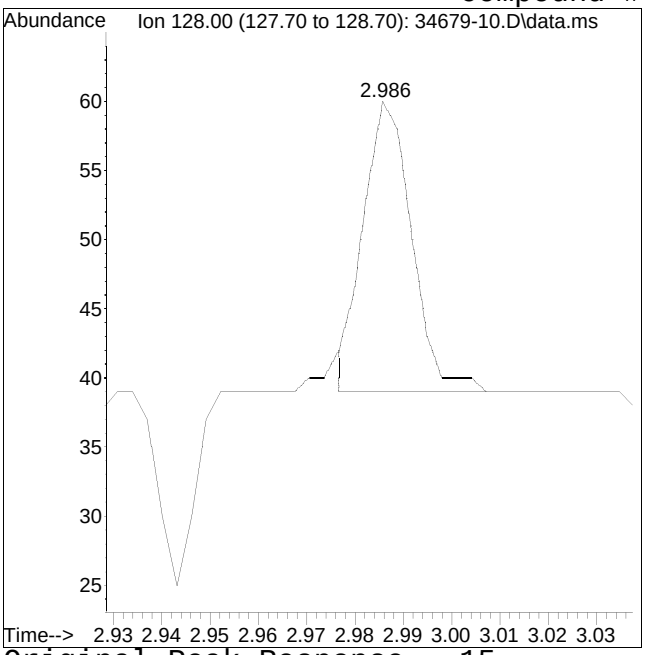


Manual Integration Report

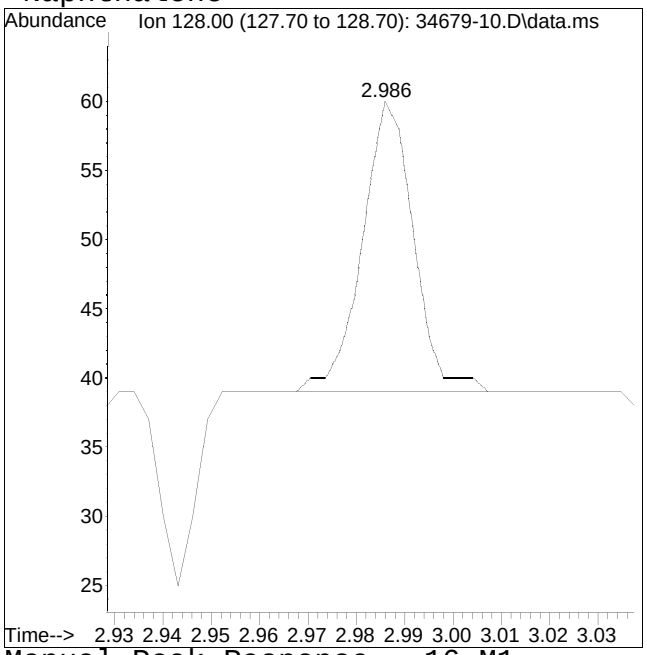
Data Path : I:\8270SIM\SV128\240625\
Data File : 34679-10.D
Date Inj'd : 6/25/2024 12:10 pm
Sample : L2434679-10,32,,jjw

QMethod : SIM-LVI_231211_sv128.M
Operator : SV128:jjw
Instrument : SV128
Quant Date : 6/25/2024 12:24 pm

Compound #9: Naphthalene



Original Peak Response = 15



Manual Peak Response = 16 M1

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

Semivolatiles Standards Data

Initial Calibration

Initial Calibration Summary
Form 6
Semivolatiles

Client	**: Alpha Geoscience**	**Lab Number**	**: L2434679**
Project Name	**: RANCO MINE**	**Project Number**	**: 12123**
Instrument ID	**: SV128**	**Ical Ref**	**: ICAL20676**
Calibration dates	**: 12/11/23 13:27 12/13/23 07:14**		

Calibration Files
L1 =IL1a.D L2 =IL2.D L3 =IL3.D L4 =IL4.D L5 =IL5.D L6 =IL6.D L7 =IL7.D L8 =IL8.D
L9 =IL9.D L10 =IL10.D

		Compound	L1	L2	L3	L4	L5	L6	L7	L8	L9	L10	Avg	%RSD
1)	i	1,4-Dichlorobenzene-d4	ISTD											
2)	s	2-Fluorophenol	0.817	0.995	1.007	0.984	1.029	1.065	1.064	1.060	1.045	1.007		7.69
3)	s	Phenol-d6	1.051	1.144	1.147	1.149	1.172	1.246	1.241	1.222	1.222	1.177		5.34
4)	T	bis(2-Chloroethyl)ether	0.934	0.995	1.007	1.025	1.000	1.017	1.039	1.025	1.007	1.005		3.00
5)	T	n-Nitrosodi-n-propylamine		0.647	0.656	0.663	0.675	0.743	0.761	0.729	0.743	0.702		6.60
6)	t	Hexachloroethane		0.448	0.445	0.497	0.488	0.492	0.492	0.488	0.471	0.478		4.36
7)	s	Nitrobenzene-d5	0.817	0.895	0.913	0.932	0.923	1.015	1.028	1.021	1.016	0.951		7.69
8)	i	Naphthalene-d8	ISTD											
9)	t	Naphthalene	1.009	1.040	1.028	1.033	1.042	1.051	1.042	1.004	0.984	1.026		2.14
10)	t	Hexachlorobutadiene		0.245	0.234	0.236	0.235	0.235	0.238	0.233	0.223	0.235		2.60
11)	t	2-Methylnaphthalene	0.606	0.635	0.628	0.660	0.655	0.689	0.697	0.668	0.660	0.655		4.43
12)	t	1-Methylnaphthalene		0.606	0.593	0.609	0.601	0.648	0.650	0.619	0.610	0.617		3.40
13)	s	2-Fluorobiphenyl	0.807	0.852	0.821	0.842	0.824	0.907	0.894	0.848	0.840	0.848		3.89
14)	t	2-Chloronaphthalene	0.673	0.722	0.683	0.713	0.698	0.754	0.754	0.713	0.710	0.713		3.90
15)	t	2,6-Dinitrotoluene			0.083	0.090	0.092	0.122	0.136	0.140	0.151		*Q	0.9997
16)	t	Acenaphthylene	0.976	0.996	0.959	1.030	0.995	1.140	1.165	1.123	1.128	1.057		7.66
17)	i	Acenaphthene-d10	ISTD											
18)	t	Acenaphthene		1.354	1.374	1.357	1.343	1.391	1.381	1.331	1.287	1.352		2.43
19)	t	2,4-Dinitrotoluene			0.185	0.204	0.213	0.278	0.312	0.329	0.342		*Q	0.9996
20)	t	Fluorene	1.279	1.301	1.308	1.352	1.326	1.459	1.453	1.405	1.399	1.365		4.90
21)	s	2,4,6-Tribromophenol		0.186	0.159	0.171	0.175	0.213	0.226	0.232	0.238	0.200		15.42
22)	i	Phenanthrene-d10	ISTD											
23)	T	4,6-Dinitro-o-cresol					0.050	0.056	0.068	0.080	0.082	0.085	*L	0.9989
24)	t	Hexachlorobenzene	0.287	0.266	0.260	0.278	0.267	0.268	0.265	0.271	0.259	0.242	0.266	4.47
25)	t	Pentachlorophenol		0.065	0.069	0.075	0.092	0.115	0.142				*Q	0.9994
26)	t	Phenanthrene	1.181	1.118	1.084	1.073	1.063	1.089	1.091	1.042	0.996	1.082		4.70
27)	t	Anthracene	1.092	1.027	1.000	1.014	1.015	1.072	1.106	1.064	1.017	1.045		3.71
28)	t	Fluoranthene	1.151	1.131	1.035	1.150	1.152	1.253	1.275	1.273	1.275	1.188		7.13
29)	t	Pyrene	1.210	1.157	1.084	1.134	1.119	1.345	1.359	1.336	1.322	1.230		9.02
30)	s	4-Terphenyl-d14	0.886	0.832	0.702	0.745	0.726	0.905	0.920	0.897	0.889	0.833		10.33
31)	i	Chrysene-d12	ISTD											
32)	t	Benzo[a]anthracene	2.630	1.800	1.496	1.470	1.404	1.422	1.470	1.423	1.434		*L	0.9999
33)	t	3,3'-Dichlorobenzidine			0.446	0.461	0.523	0.515	0.561	0.578	0.576		*L	0.9997
34)	t	Chrysene	1.367	1.427	1.407	1.395	1.389	1.426	1.395	1.345	1.259	1.379		3.78
35)	T	bis(2-Ethylhexyl)phthalate					0.502	0.515	0.606	0.756	0.808	0.841	*Q	0.9992
36)	i	Perylene-d12	ISTD											

Initial Calibration Summary
Form 6
Semivolatiles

Client	**: Alpha Geoscience**	**Lab Number**	**: L2434679**
Project Name	**: RANCO MINE**	**Project Number**	**: 12123**
Instrument ID	**: SV128**	**Ical Ref**	**: ICAL20676**
Calibration dates	**: 12/11/23 13:27 12/13/23 07:14**		

Calibration Files
L1 =IL1a.D L2 =IL2.D L3 =IL3.D L4 =IL4.D L5 =IL5.D L6 =IL6.D L7 =IL7.D L8 =IL8.D
L9 =IL9.D L10 =IL10.D

	Compound	L1	L2	L3	L4	L5	L6	L7	L8	L9	L10	Avg	%RSD
37) t	Benzo[b]fluoranthene		1.149	1.175	1.189	1.269	1.207	1.255	1.335	1.272	1.298	1.239	4.99
38) t	Benzo[k]fluoranthene		1.090	1.024	1.066	1.082	1.137	1.185	1.281	1.299	1.210	1.153	8.42
39) t	Benzo[a]pyrene		1.002	1.011	1.004	1.051	1.072	1.133	1.198	1.189	1.157	1.091	7.32
40) t	Indeno[1,2,3-cd]pyrene		1.031	1.120	1.075	1.058	1.095	1.134	1.133	1.107	1.063	1.091	3.32
41) t	Dibenzo[a,h]anthracene		1.002	1.011	0.969	0.996	1.069	1.164	1.160	1.120	1.043	1.059	6.93
42) t	Benzo[g,h,i]perylene		1.120	1.147	1.145	1.117	1.178	1.224	1.169	1.068	1.035	1.134	5.06

Response Factor Report SV128

Method Path : I:\8270SIM\SV128\231211LVIical\
Method File : SIM-LVI_231211_sv128.M
Title : Semivolatiles by GC/MS by modified 8270
Last Update : Fri Dec 15 14:46:27 2023
Response Via : Initial Calibration

Calibration Files
L1 =IL1a.D L2 =IL2.D L3 =IL3.D L4 =IL4.D L5 =IL5.D L6 =IL6.D L7 =IL7.D L8 =IL8.D
L9 =IL9.D L10 =IL10.D

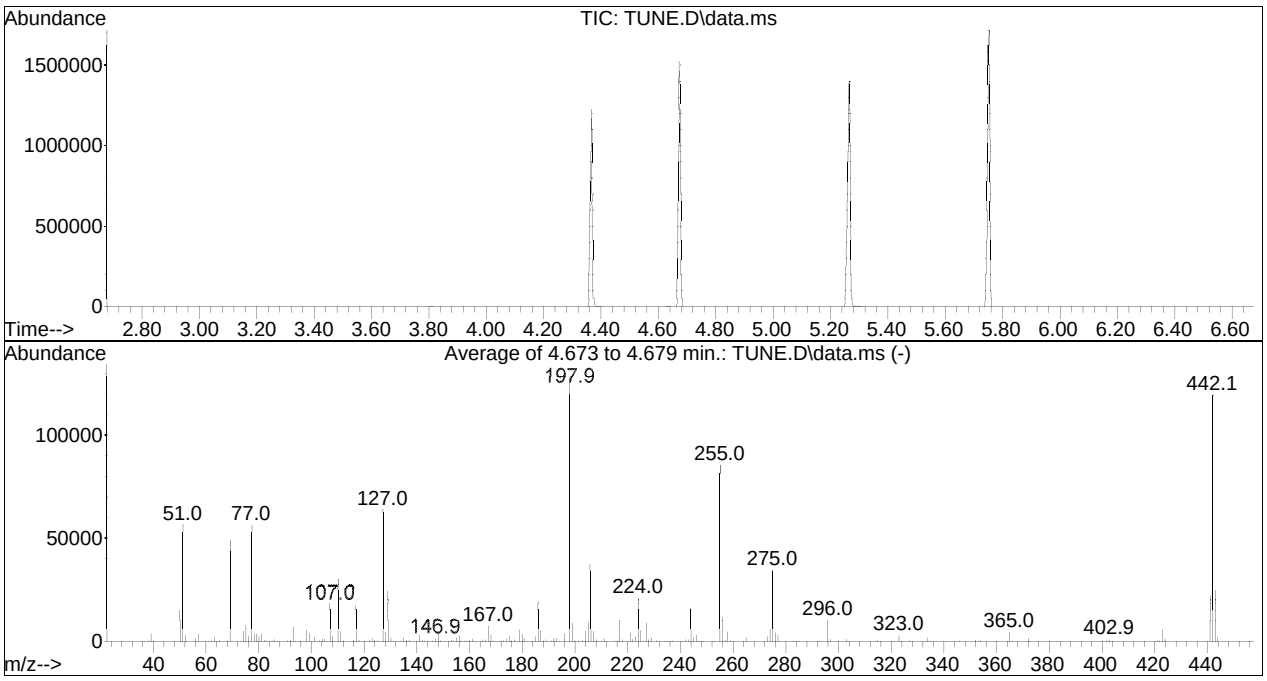
		Compound	L1	L2	L3	L4	L5	L6	L7	L8	L9	L10	Avg	%RSD
1)	i	1,4-Dichlorobenzene-d4	ISTD											
2)	s	2-Fluorophenol	0.817	0.995	1.007	0.984	1.029	1.065	1.064	1.060	1.045	1.007		7.69
3)	s	Phenol-d6	1.051	1.144	1.147	1.149	1.172	1.246	1.241	1.222	1.222	1.177		5.34
4)	T	bis(2-Chloroethyl)ether	0.934	0.995	1.007	1.025	1.000	1.017	1.039	1.025	1.007	1.005		3.00
5)	T	n-Nitrosodi-n-propylamine		0.647	0.656	0.663	0.675	0.743	0.761	0.729	0.743	0.702		6.60
6)	t	Hexachloroethane		0.448	0.445	0.497	0.488	0.492	0.492	0.488	0.471	0.478		4.36
7)	s	Nitrobenzene-d5	0.817	0.895	0.913	0.932	0.923	1.015	1.028	1.021	1.016	0.951		7.69
8)	i	Naphthalene-d8	ISTD											
9)	t	Naphthalene	1.009	1.040	1.028	1.033	1.042	1.051	1.042	1.004	0.984	1.026		2.14
10)	t	Hexachlorobutadiene		0.245	0.234	0.236	0.235	0.235	0.238	0.233	0.223	0.235		2.60
11)	t	2-Methylnaphthalene	0.606	0.635	0.628	0.660	0.655	0.689	0.697	0.668	0.660	0.655		4.43
12)	t	1-Methylnaphthalene		0.606	0.593	0.609	0.601	0.648	0.650	0.619	0.610	0.617		3.40
13)	s	2-Fluorobiphenyl	0.807	0.852	0.821	0.842	0.824	0.907	0.894	0.848	0.840	0.848		3.89
14)	t	2-Chloronaphthalene	0.673	0.722	0.683	0.713	0.698	0.754	0.754	0.713	0.710	0.713		3.90
15)	t	2,6-Dinitrotoluene			0.083	0.090	0.092	0.122	0.136	0.140	0.151		*Q	0.9997
16)	t	Acenaphthylene	0.976	0.996	0.959	1.030	0.995	1.140	1.165	1.123	1.128	1.057		7.66
17)	i	Acenaphthene-d10	ISTD											
18)	t	Acenaphthene		1.354	1.374	1.357	1.343	1.391	1.381	1.331	1.287	1.352		2.43
19)	t	2,4-Dinitrotoluene			0.185	0.204	0.213	0.278	0.312	0.329	0.342		*Q	0.9996
20)	t	Fluorene	1.279	1.301	1.308	1.352	1.326	1.459	1.453	1.405	1.399	1.365		4.90
21)	s	2,4,6-Tribromophenol		0.186	0.159	0.171	0.175	0.213	0.226	0.232	0.238	0.200		15.42
22)	i	Phenanthrene-d10	ISTD											
23)	T	4,6-Dinitro-o-cresol				0.050	0.056	0.068	0.080	0.082	0.085		*L	0.9989
24)	t	Hexachlorobenzene	0.287	0.266	0.260	0.278	0.267	0.268	0.265	0.271	0.259	0.242	0.266	4.47
25)	t	Pentachlorophenol		0.065	0.069	0.075	0.092	0.115	0.142				*Q	0.9994
26)	t	Phenanthrene	1.181	1.118	1.084	1.073	1.063	1.089	1.091	1.042	0.996	1.082		4.70
27)	t	Anthracene	1.092	1.027	1.000	1.014	1.015	1.072	1.106	1.064	1.017	1.045		3.71
28)	t	Fluoranthene	1.151	1.131	1.035	1.150	1.152	1.253	1.275	1.273	1.275	1.188		7.13
29)	t	Pyrene	1.210	1.157	1.084	1.134	1.119	1.345	1.359	1.336	1.322	1.230		9.02
30)	s	4-Terphenyl-d14	0.886	0.832	0.702	0.745	0.726	0.905	0.920	0.897	0.889	0.833		10.33
31)	i	Chrysene-d12	ISTD											
32)	t	Benzo[a]anthracene	2.630	1.800	1.496	1.470	1.404	1.422	1.470	1.423	1.434		*L	0.9999
33)	t	3,3'-Dichlorobenzidine			0.446	0.461	0.523	0.515	0.561	0.578	0.576		*L	0.9997
34)	t	Chrysene	1.367	1.427	1.407	1.395	1.389	1.426	1.395	1.345	1.259	1.379		3.78
35)	T	bis(2-Ethylhexyl)phthalate				0.502	0.515	0.606	0.756	0.808	0.841		*Q	0.9992
36)	i	Perylene-d12	ISTD											
37)	t	Benzo[b]fluora...	1.149	1.175	1.189	1.269	1.207	1.255	1.335	1.272	1.298	1.239		4.99
38)	t	Benzo[k]fluora...	1.090	1.024	1.066	1.082	1.137	1.185	1.281	1.299	1.210	1.153		8.42
39)	t	Benzo[a]pyrene	1.002	1.011	1.004	1.051	1.072	1.133	1.198	1.189	1.157	1.091		7.32
40)	t	Indeno[1,2,3-c...	1.031	1.120	1.075	1.058	1.095	1.134	1.133	1.107	1.063	1.091		3.32
41)	t	Dibenzo[a,h]anthracene	1.002	1.011	0.969	0.996	1.069	1.164	1.160	1.120	1.043	1.059		6.93
42)	t	Benzo[g,h,i]pe...	1.120	1.147	1.145	1.117	1.178	1.224	1.169	1.068	1.035	1.134		5.06

(#) = Out of Range

Data Path : I:\8270SIM\SV128\231211LVIical\
Data File : TUNE.D
Acq On : 11 Dec 2023 01:03 pm
Operator : SV128:dv
Sample : TUNE
Misc : WG1864557,,ical
ALS Vial : 48 Sample Multiplier: 1

Integration File: rteint.p

Method : I:\8270SIM\SV128\231211LVIical\SIM-LVI_231211_sv128.M
Title : Semivolatiles by GC/MS by modified 8270
Last Update : Fri Dec 15 14:46:27 2023



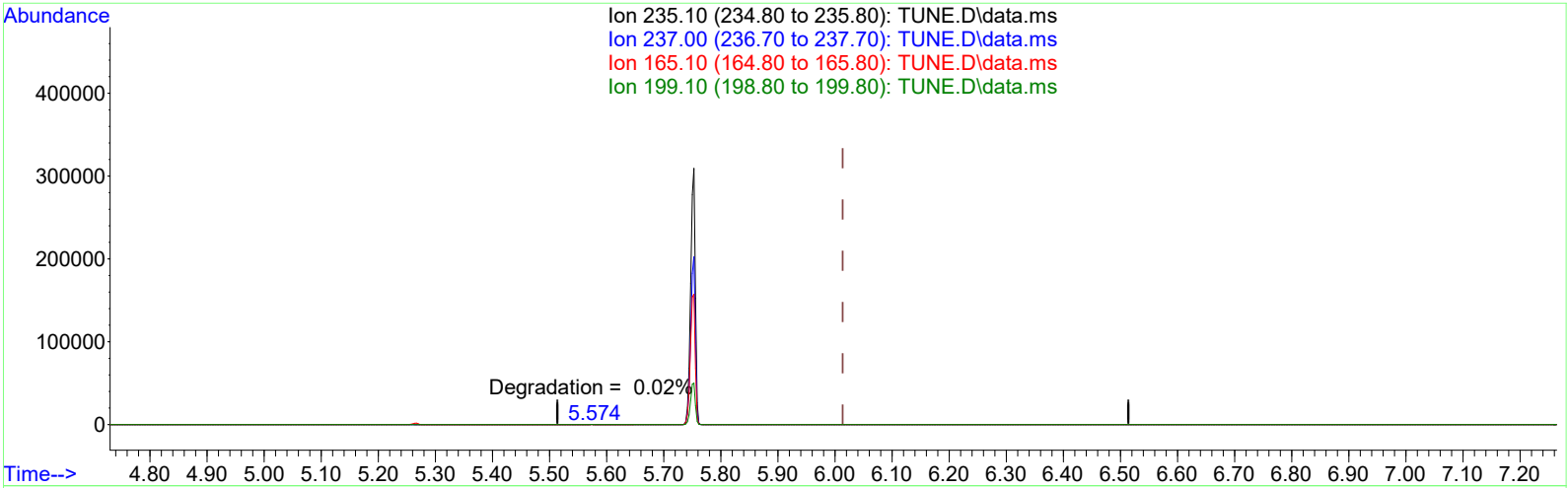
Spectrum Information: Average of 4.673 to 4.679 min.

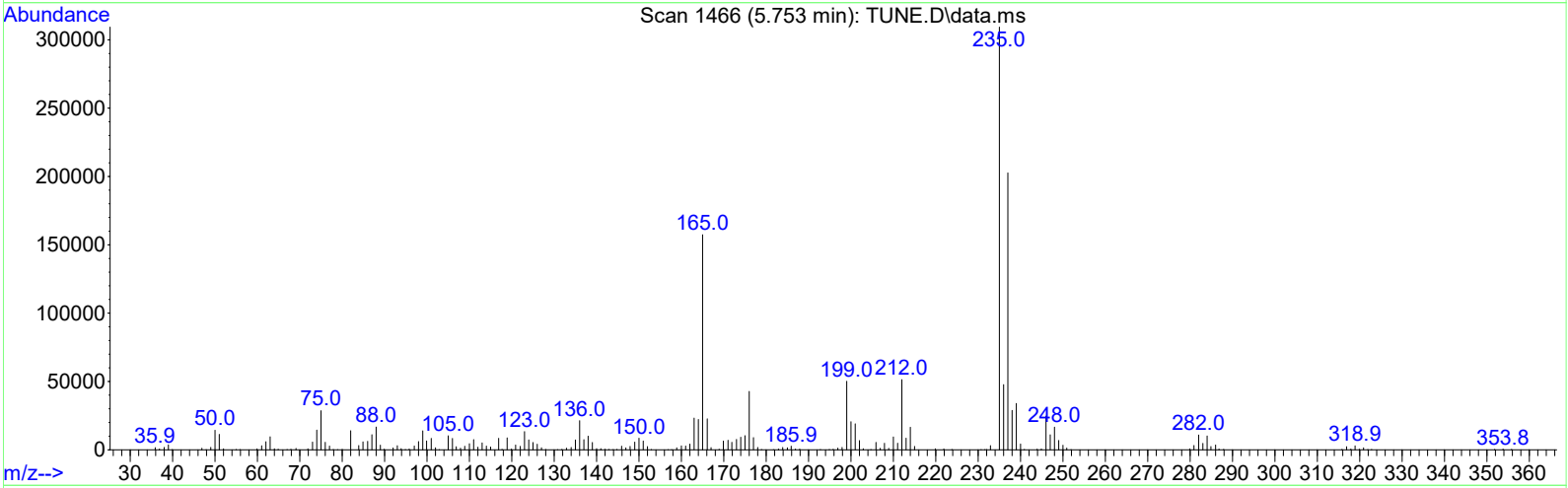
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	44.3	56645	PASS
68	69	0.00	2	1.6	806	PASS
69	69	100	100	100.0	48989	PASS
70	69	0.00	2	0.5	226	PASS
127	198	10	80	50.0	63984	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	127888	PASS
199	198	5	9	6.8	8746	PASS
275	198	10	60	27.1	34715	PASS
365	198	1	100	3.6	4548	PASS
441	442	0.01	24	18.5	22151	PASS
442	198	50	100	93.6	119712	PASS
443	442	15	24	20.5	24488	PASS

Quantitation Report (Qedit)

Data Path : I:\8270SIM\SV128\231211LVIical\
Data File : TUNE.D
Acq On : 11 Dec 2023 01:03 pm
Operator : SV128:dv
Sample : TUNE
Misc : WG1864557,,ical
ALS Vial : 48 Sample Multiplier: 1

Quant Time: Dec 11 13:22:21 2023
Quant Method : I:\8270SIM\SV128\231211LVIical\dftppsv128.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Nov 10 08:59:52 2023
Response via : Continuing Cal File: C:\ENVDEMO\BNADATA\DLWB002.D





TIC: TUNE.D\data.ms

(6) ddt (T)

5.753min (-0.261) 28.85

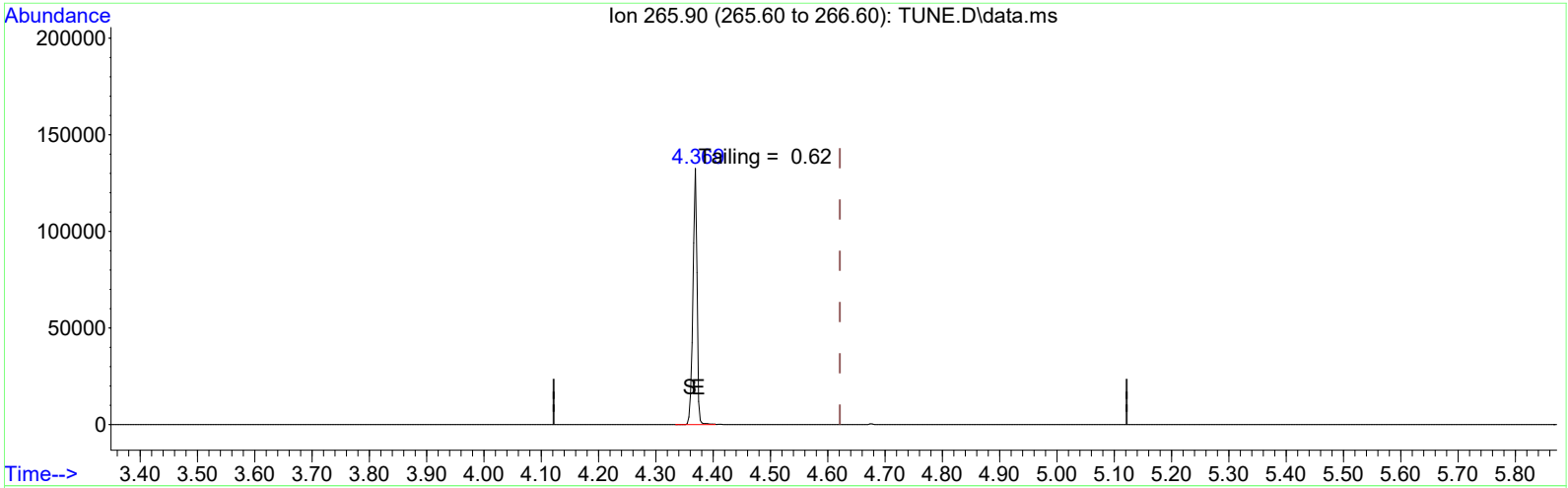
response 175838

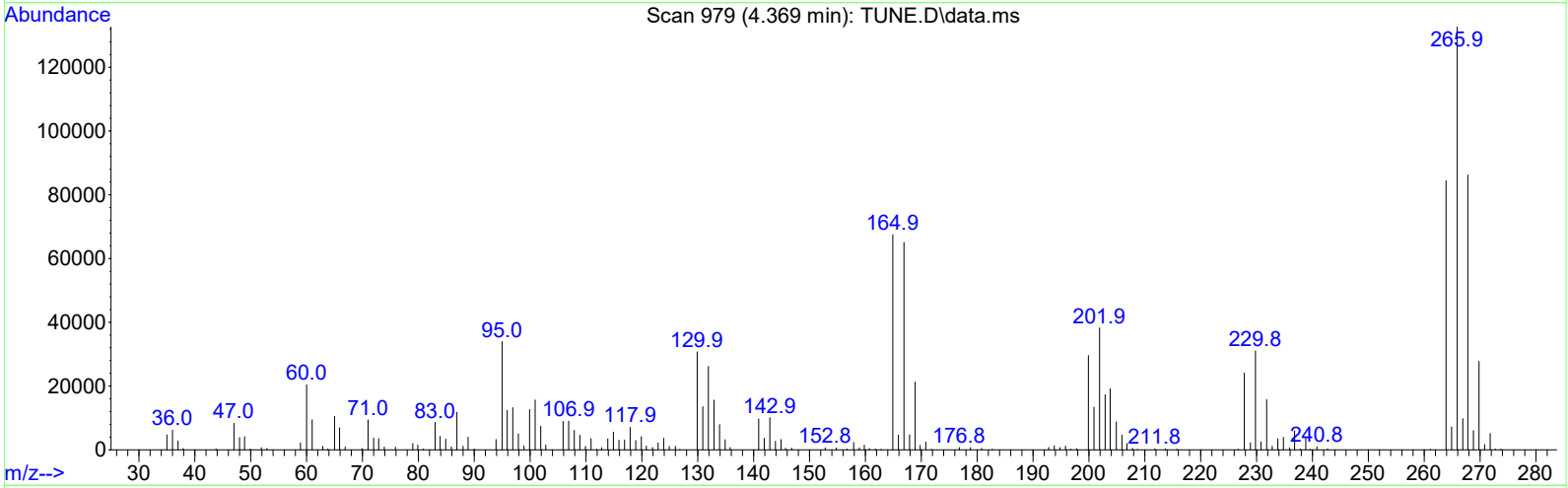
Ion	Exp%	Act%
235.10	100.00	100.00
237.00	65.60	64.76
165.10	53.30	52.57
199.10	17.10	16.62

Quantitation Report (Qedit)

Data Path : I:\8270SIM\SV128\231211LVIical\
Data File : TUNE.D
Acq On : 11 Dec 2023 01:03 pm
Operator : SV128:dv
Sample : TUNE
Misc : WG1864557,,ical
ALS Vial : 48 Sample Multiplier: 1

Quant Time: Dec 11 13:22:21 2023
Quant Method : I:\8270SIM\SV128\231211LVIical\dftppsv128.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Nov 10 08:59:52 2023
Response via : Continuing Cal File: C:\ENVDEMO\BNADATA\DLWB002.D





TIC: TUNE.D\data.ms

(1) pentachlorophenol (T)

4.369min (-0.253) 31.32

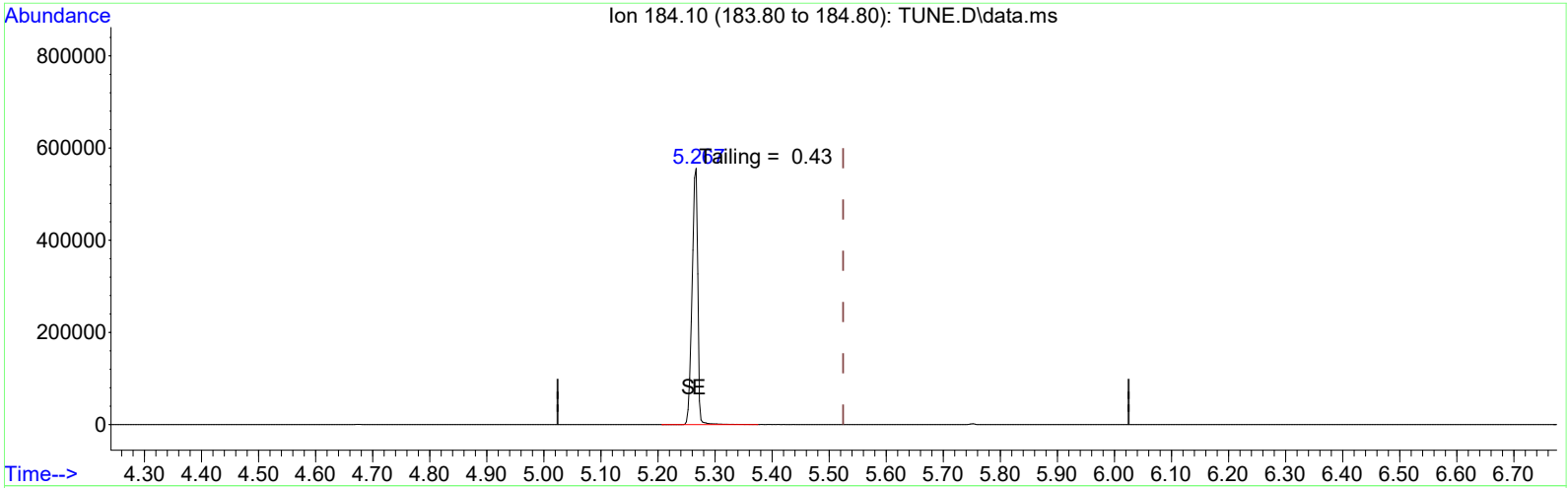
response 65782

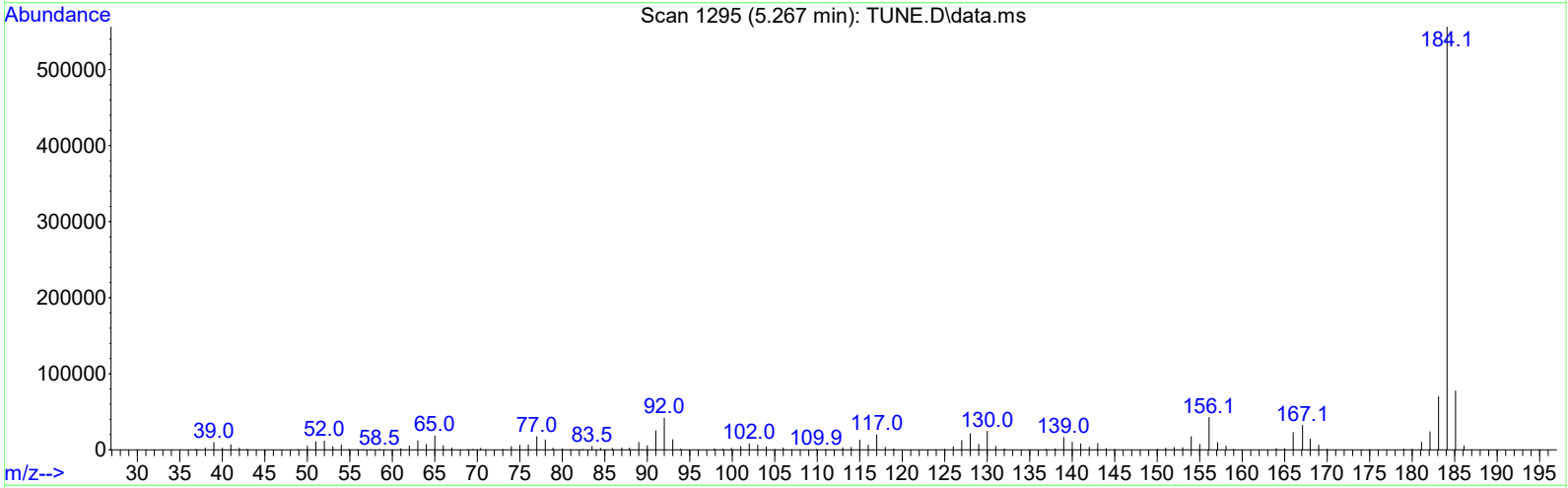
Ion	Exp%	Act%
265.90	100.00	100.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\8270SIM\SV128\231211LVIical\
Data File : TUNE.D
Acq On : 11 Dec 2023 01:03 pm
Operator : SV128:dv
Sample : TUNE
Misc : WG1864557,,ical
ALS Vial : 48 Sample Multiplier: 1

Quant Time: Dec 11 13:22:21 2023
Quant Method : I:\8270SIM\SV128\231211LVIical\dftppsv128.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Nov 10 08:59:52 2023
Response via : Continuing Cal File: C:\ENVDEMO\BNADATA\DLWB002.D





TIC: TUNE.D\data.ms

(3) benzidine (T)

5.267min (-0.258) 37.75

response 384268

Ion	Exp%	Act%
184.10	100.00	100.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV128\231211LVIical\
Data File : IL10.D
Acq On : 11 Dec 2023 01:27 pm
Operator : SV128:dv
Sample : IL10,32,, 20.0 Lot#10186
Misc : WG1864557,,ical
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 18 10:40:51 2023
Quant Method : I:\8270SIM\SV128\231211LVIical\SIM-LVI_231211_sv128.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Dec 15 13:51:47 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\SV128\231211LVIical\IL7.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	1.990	152	3478	4000.000	ng/ml	#-0.02
Standard Area 1 = 2982			Recovery = 116.63%			
8) Naphthalene-d8	2.657	136	12243	4000.000	ng/ml	-0.02
Standard Area 1 = 10566			Recovery = 115.87%			
17) Acenaphthene-d10	3.646	164	7153M1	4000.000	ng/ml	0.00
Standard Area 1 = 6070			Recovery = 117.84%			
22) Phenanthrene-d10	4.502	188	16546	4000.000	ng/ml	0.02
Standard Area 1 = 13526			Recovery = 122.33%			
31) Chrysene-d12	6.055	240	16227	4000.000	ng/ml	0.04
Standard Area 1 = 12766			Recovery = 127.11%			
36) Perylene-d12	7.167	264	17481M1	4000.000	ng/ml	0.06
Standard Area 1 = 15405			Recovery = 113.48%			
System Monitoring Compounds						
2) 2-Fluorophenol	1.394	112	18175	20752.029	ng/ml	-0.03
Spiked Amount 5000.000	Range 15 - 110		Recovery = 415.04%#			
3) Phenol-d6	1.807	99	21251	20761.969	ng/ml	-0.02
Spiked Amount 5000.000	Range 15 - 110		Recovery = 415.24%#			
7) Nitrobenzene-d5	2.272	82	17667	21358.142	ng/ml	-0.02
Spiked Amount 2500.000	Range 30 - 130		Recovery = 854.33%#			
13) 2-Fluorobiphenyl	3.267	172	51428M3	19548.938	ng/ml	0.0
0						
Spiked Amount 2500.000	Range 30 - 130		Recovery = 781.96%#			
21) 2,4,6-Tribromophenol	4.102	330	8498	23774.184	ng/ml	0.01
Spiked Amount 5000.000	Range 15 - 110		Recovery = 475.48%#			
30) 4-Terphenyl-d14	5.446	244	73530	21330.785	ng/ml	0.03
Spiked Amount 2500.000	Range 30 - 130		Recovery = 853.23%#			
Target Compounds						Qvalue
4) Bis(2-chloroethyl)ether	1.856	93	17512	19777.142	ng/ml	97
5) n-nitrosodi-n-propylamine	2.199	70	12913	20092.521	ng/ml#	87
6) Hexachloroethane	2.247	117	8198	19736.576	ng/ml	81
9) Naphthalene	2.666	128	60240	19186.849	ng/ml#	100
10) Hexachlorobutadiene	2.745	225	13674	19012.900	ng/ml	99

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV128\231211LVIical\
Data File : IL10.D
Acq On : 11 Dec 2023 01:27 pm
Operator : SV128:dv
Sample : IL10,32,, 20.0 Lot#10186
Misc : WG1864557,,ical
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 18 10:40:51 2023
Quant Method : I:\8270SIM\SV128\231211LVIical\SIM-LVI_231211_sv128.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Dec 15 13:51:47 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\SV128\231211LVIical\IL7.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
11) 2-Methylnaphthalene	3.054	142	40429	20157.396	ng/ml	100
12) 1-Methylnaphthalene	3.109	142	37367	19783.617	ng/ml	100
14) 2-Chloronaphthalene	3.328	162	43490	19917.743	ng/ml	99
15) 2,6-Dinitrotoluene	3.537	165	9244M4	26008.947	ng/ml	
16) Acenaphthylene	3.564	152	69041M3	21205.345	ng/ml	
18) Acenaphthene	3.665	153	46036	18991.937	ng/ml	100
19) 2,4-Dinitrotoluene	3.768	165	12221	25677.113	ng/ml	92
20) Fluorene	3.961	166	50041	20483.915	ng/ml	99
23) 4,6-Dinitro-o-cresol	4.004	198	7032	24221.131	ng/ml	91
24) Hexachlorobenzene	4.286	284	20009	18332.687	ng/ml	97
25) Pentachlorophenol	4.402	266	12185M6	26900.783	ng/ml	
26) Phenanthrene	4.517	178	82367	18409.226	ng/ml	100
27) Anthracene	4.543	178	84113	19455.941	ng/ml	100
28) Fluoranthene	5.208	202	105522	21466.674	ng/ml	100
29) Pyrene	5.339	202	109378	21506.233	ng/ml	99
32) Benzo[a]anthracene	6.049	228	116366	17290.036	ng/ml	100
33) 3,3'-Dichlorobenzidine	6.046	252	46728	22036.988	ng/ml	99
34) Chrysene	6.071	228	102120	18254.890	ng/ml	99
35) Bis(2-ethylhexyl)phtha...	6.109	149	68214	25045.818	ng/ml	99
37) Benzo[b]fluoranthene	6.831	252	113469	20816.811	ng/ml	99
38) Benzo[k]fluoranthene	6.856	252	105755	20992.307	ng/ml	99
39) Benzo[a]pyrene	7.117	252	101168	21222.214	ng/ml	100
40) Indeno[1,2,3-cd]pyrene	8.319	276	92907	19490.762	ng/ml	100
41) Dibenzo[a,h]anthracene	8.364	278	91169M6	19671.137	ng/ml	
42) Benzo[g,h,i]perylene	8.644	276	90468M2	18088.508	ng/ml	

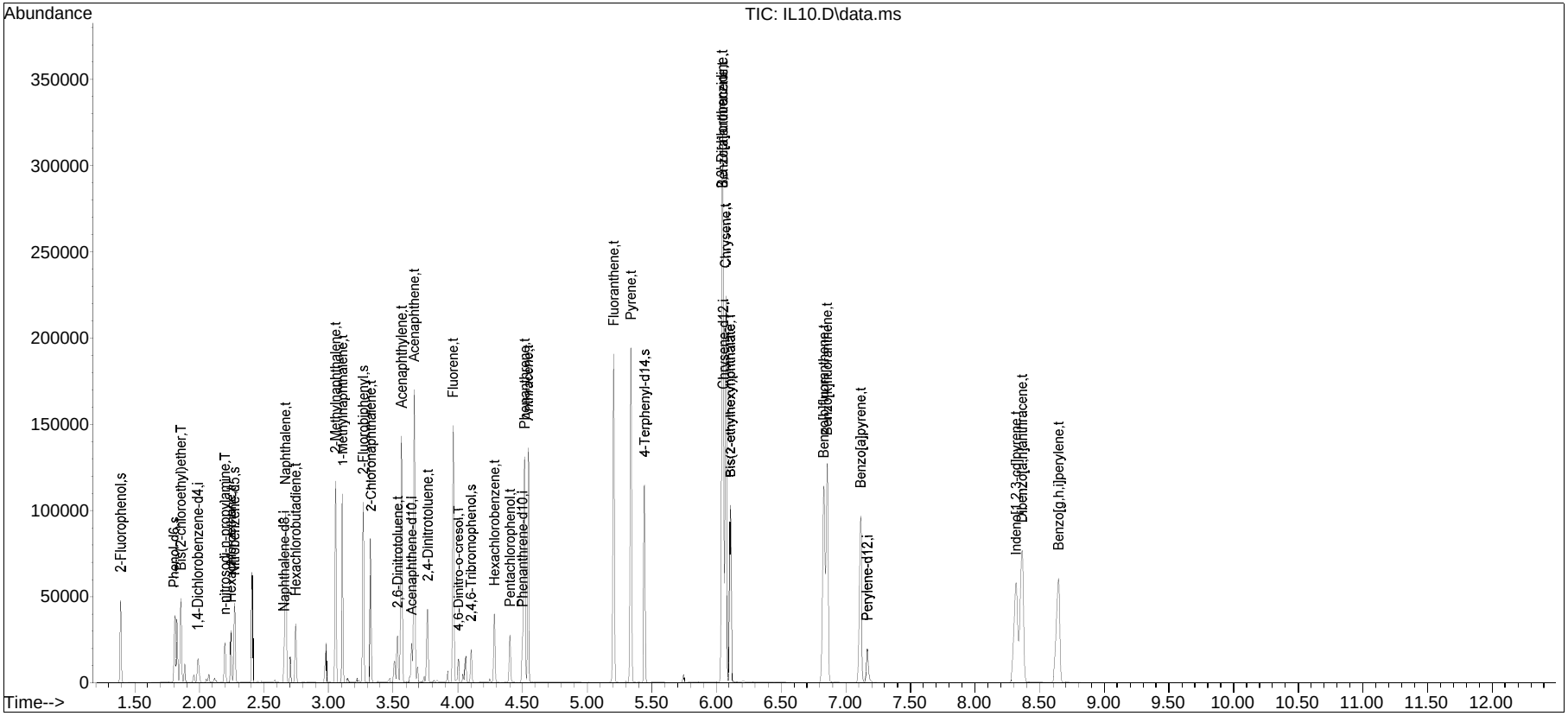
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV128\231211LVIical\
Data File : IL10.D
Acq On : 11 Dec 2023 01:27 pm
Operator : SV128:dv
Sample : IL10,32,, 20.0 Lot#10186
Misc : WG1864557,,ical
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 18 10:40:51 2023
Quant Method : I:\8270SIM\SV128\231211LVIical\SIM-LVI_231211_sv128.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Dec 15 13:51:47 2023
Response via : Initial Calibration

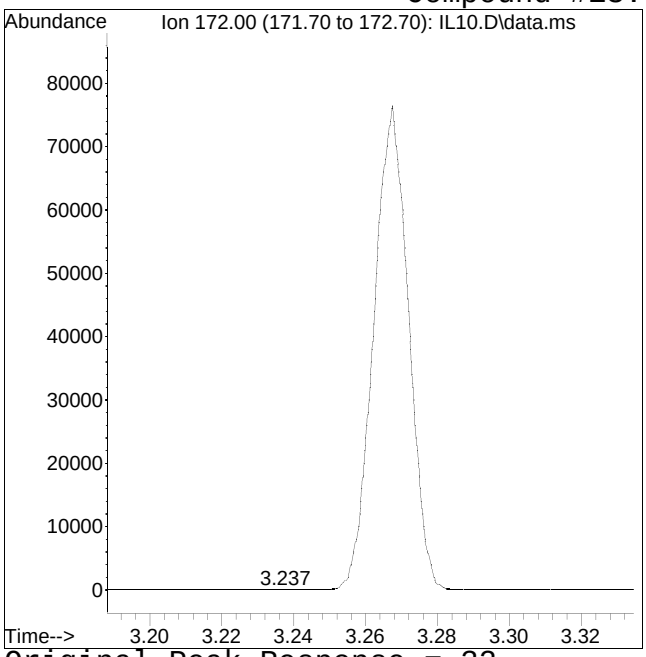
Sub List : Default - All compounds listedical\IL7.D•

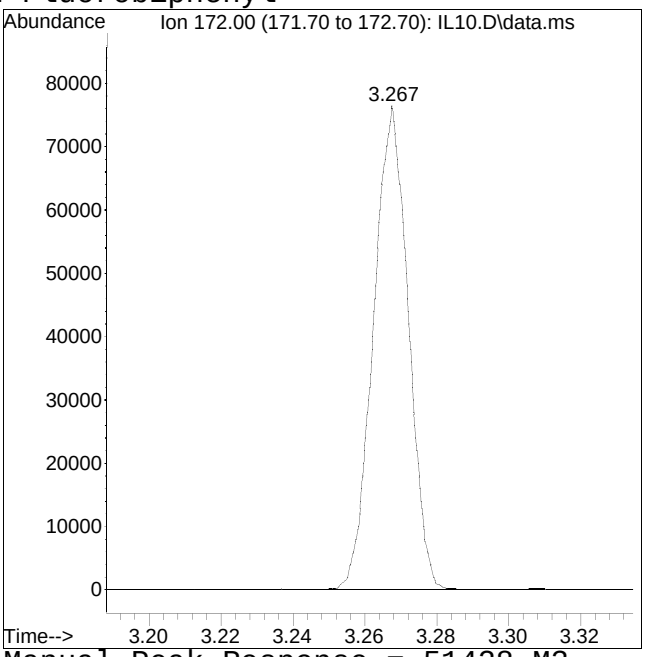


Manual Integration Report

Data Path : I:\8270SIM\SV128\231211LVIQMethod : SIM-LVI_231211_sv128.M
Data File : IL10.D Operator : SV128:dv
Date Inj'd : 12/11/2023 1:27 pm Instrument : SV128
Sample : IL10,32,, 20.0 Lot#10186 Quant Date : 12/15/2023 1:52 pm

Compound #13: 2-Fluorobiphenyl



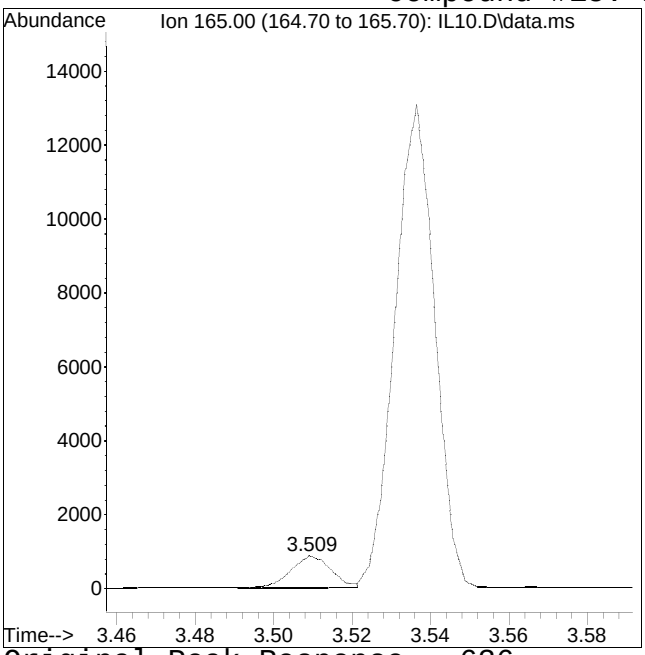


Original Peak Response = 32 Manual Peak Response = 51428 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

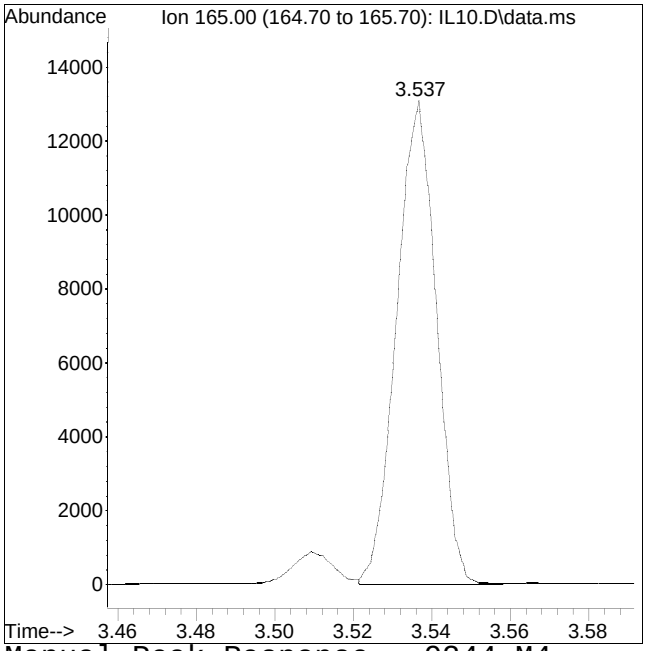
Manual Integration Report

Data Path : I:\8270SIM\SV128\231211LVIQ
Data File : IL10.D
Date Inj'd : 12/11/2023 1:27 pm
Sample : IL10,32,, 20.0 Lot#10186
Method : SIM-LVI_231211_sv128.M
Operator : SV128:dv
Instrument : SV128
Quant Date : 12/15/2023 1:52 pm

Compound #15: 2,6-Dinitrotoluene



Original Peak Response = 636



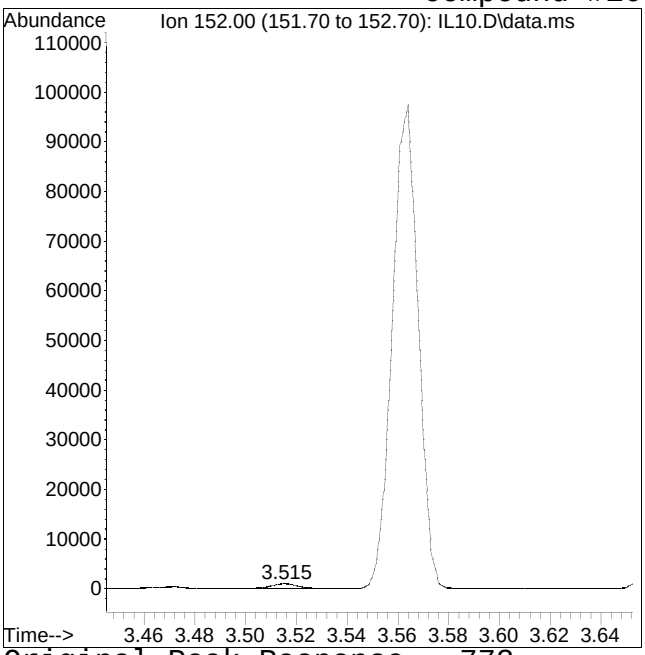
Manual Peak Response = 9244 M4

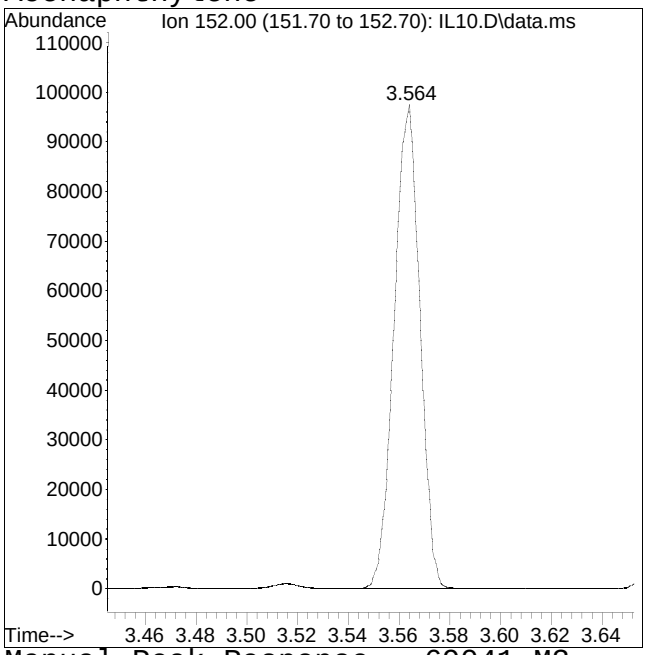
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\8270SIM\SV128\231211LVIQMethod : SIM-LVI_231211_sv128.M
Data File : IL10.D Operator : SV128:dv
Date Inj'd : 12/11/2023 1:27 pm Instrument : SV128
Sample : IL10,32,, 20.0 Lot#10186 Quant Date : 12/15/2023 1:52 pm

Compound #16: Acenaphthylene





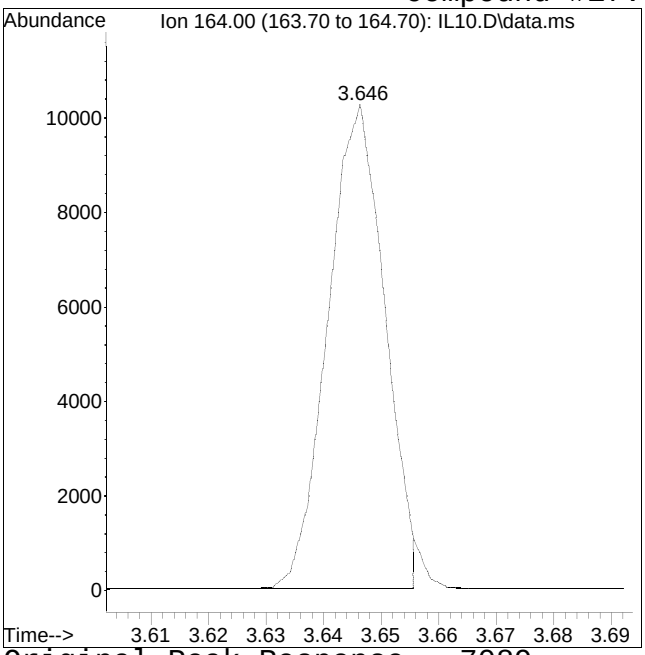
Original Peak Response = 773 Manual Peak Response = 69041 M3

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

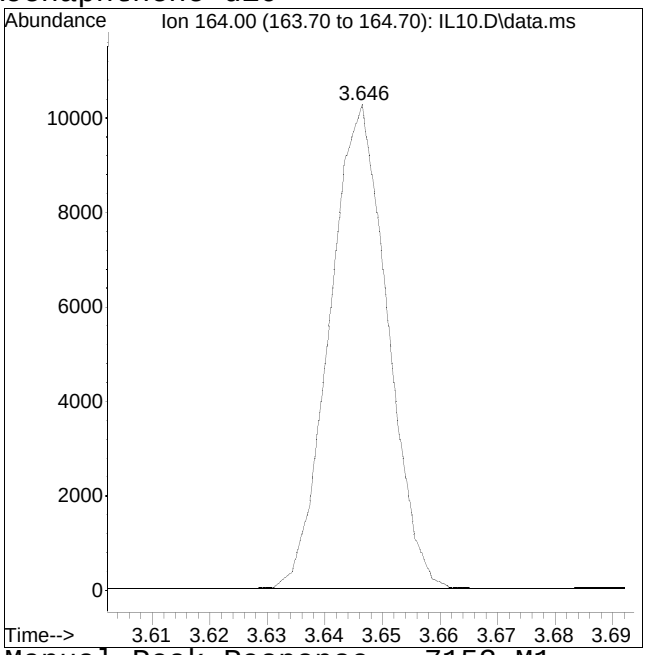
Manual Integration Report

Data Path : I:\8270SIM\SV128\231211LVIQMethod : SIM-LVI_231211_sv128.M
Data File : IL10.D Operator : SV128:dv
Date Inj'd : 12/11/2023 1:27 pm Instrument : SV128
Sample : IL10,32,, 20.0 Lot#10186 Quant Date : 12/15/2023 1:52 pm

Compound #17: Acenaphthene-d10



Original Peak Response = 7089



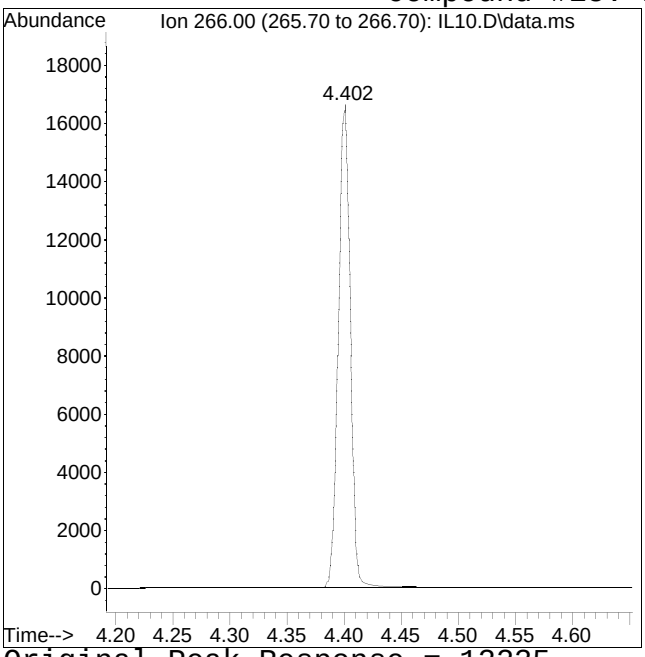
Manual Peak Response = 7153 M1

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

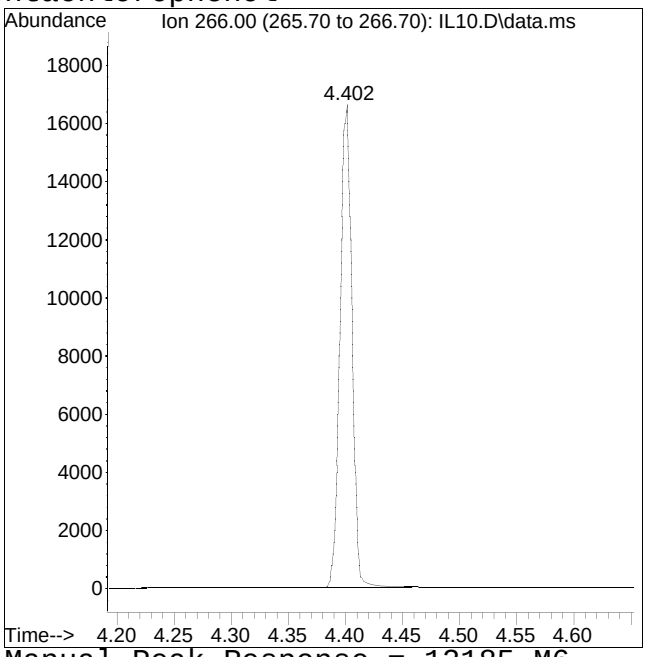
Manual Integration Report

Data Path : I:\8270SIM\SV128\231211LVIQMethod : SIM-LVI_231211_sv128.M
Data File : IL10.D Operator : SV128:dv
Date Inj'd : 12/11/2023 1:27 pm Instrument : SV128
Sample : IL10,32,, 20.0 Lot#10186 Quant Date : 12/15/2023 1:52 pm

Compound #25: Pentachlorophenol



Original Peak Response = 12235



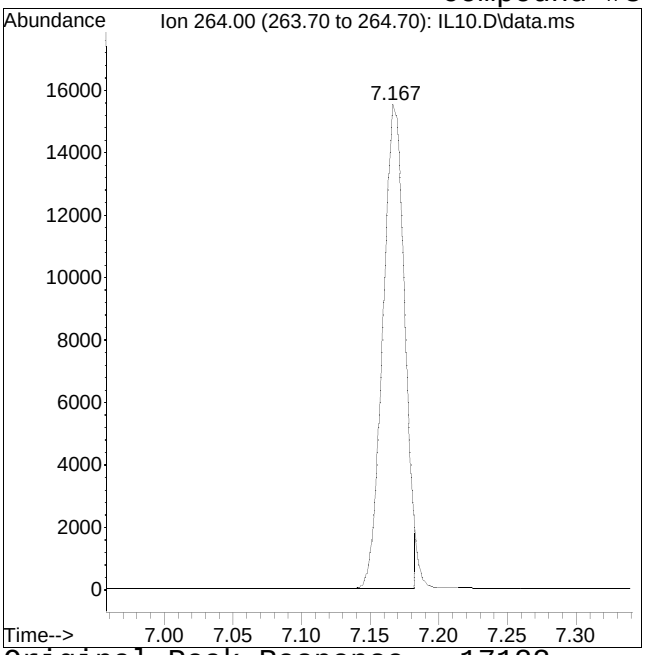
Manual Peak Response = 12185 M6

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

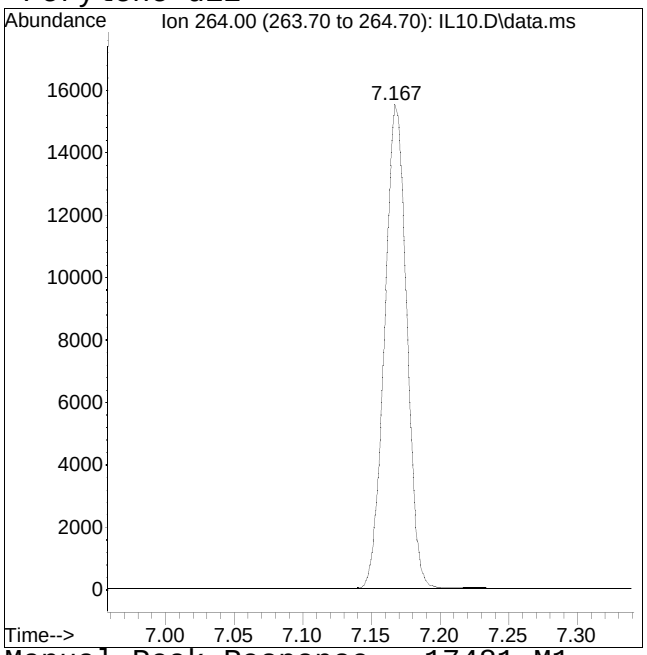
Manual Integration Report

Data Path : I:\8270SIM\SV128\231211LVIQMethod : SIM-LVI_231211_sv128.M
Data File : IL10.D Operator : SV128:dv
Date Inj'd : 12/11/2023 1:27 pm Instrument : SV128
Sample : IL10,32,, 20.0 Lot#10186 Quant Date : 12/15/2023 1:52 pm

Compound #36: Perylene-d12



Original Peak Response = 17122



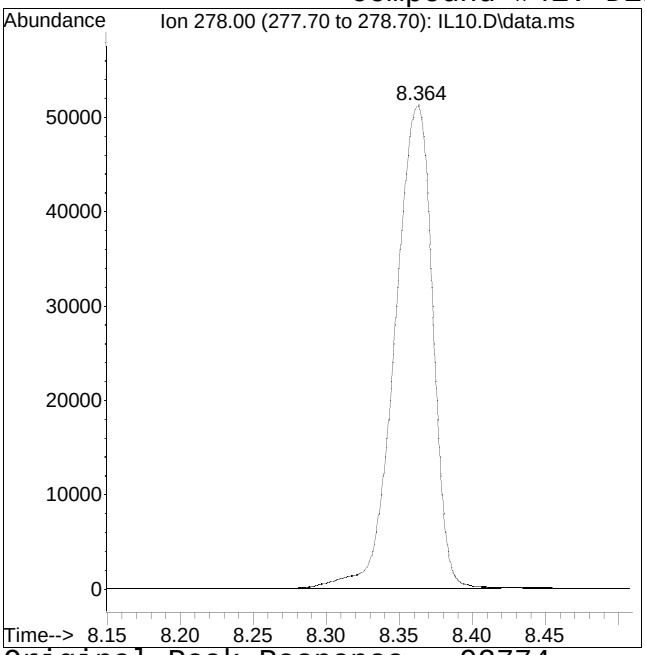
Manual Peak Response = 17481 M1

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

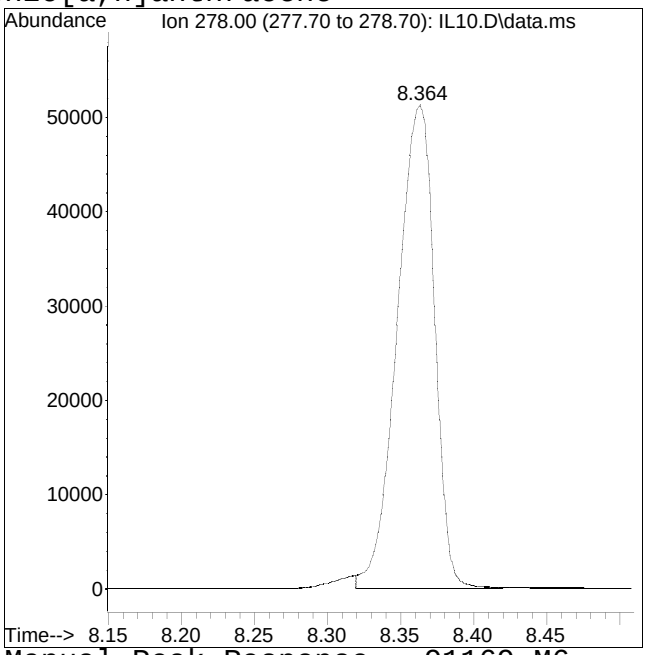
Manual Integration Report

Data Path : I:\8270SIM\SV128\231211LVIQMethod : SIM-LVI_231211_sv128.M
Data File : IL10.D Operator : SV128:dv
Date Inj'd : 12/11/2023 1:27 pm Instrument : SV128
Sample : IL10,32,, 20.0 Lot#10186 Quant Date : 12/15/2023 1:52 pm

Compound #41: Dibenzo[a,h]anthracene



Original Peak Response = 92774



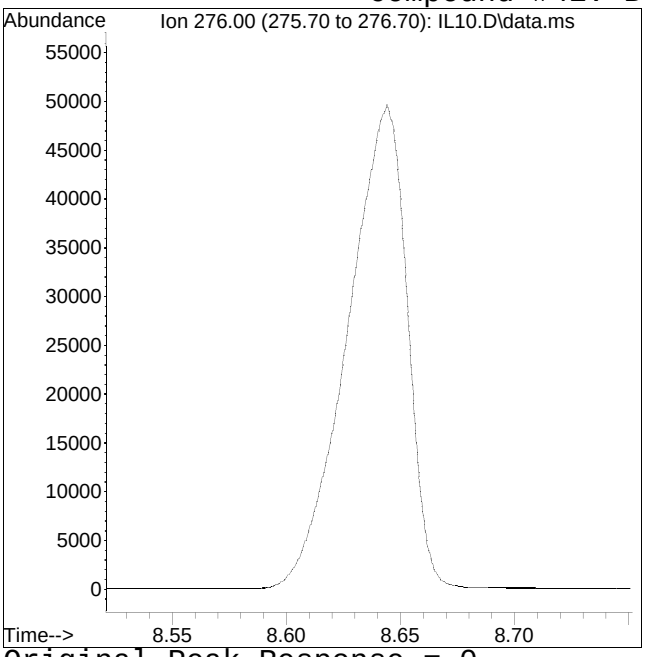
Manual Peak Response = 91169 M6

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

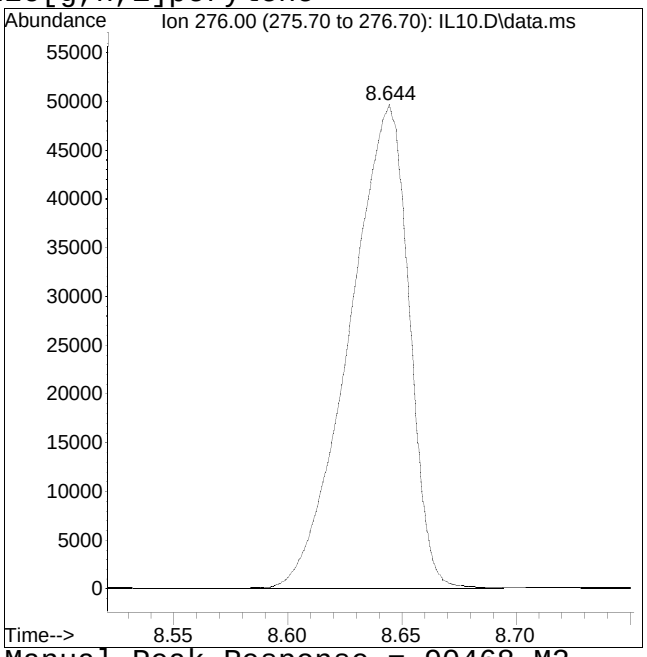
Manual Integration Report

Data Path : I:\8270SIM\SV128\231211LVIQMethod : SIM-LVI_231211_sv128.M
Data File : IL10.D Operator : SV128:dv
Date Inj'd : 12/11/2023 1:27 pm Instrument : SV128
Sample : IL10,32,, 20.0 Lot#10186 Quant Date : 12/15/2023 1:52 pm

Compound #42: Benzo[g,h,i]perylene



Original Peak Response = 0



Manual Peak Response = 90468 M2

M2 = Peak not found by automatic integration algorithm.

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV128\231211LVIical\
Data File : IL9.D
Acq On : 11 Dec 2023 01:44 pm
Operator : SV128:dv
Sample : IL9,32,, 10.0 Lot#10227
Misc : WG1864557,,ical
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 15 13:49:14 2023
Quant Method : I:\8270SIM\SV128\231211LVIical\SIM-LVI_231211_sv128.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Dec 15 13:43:56 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\SV128\231211LVIical\IL7.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.003	152	4089	4000.000	ng/ml	#-0.01
Standard Area 1 = 2982			Recovery = 137.12%			
8) Naphthalene-d8	2.662	136	14115	4000.000	ng/ml	-0.01
Standard Area 1 = 10566			Recovery = 133.59%			
17) Acenaphthene-d10	3.636	164	7935	4000.000	ng/ml	0.00
Standard Area 1 = 6070			Recovery = 130.72%			
22) Phenanthrene-d10	4.483	188	17150	4000.000	ng/ml	0.00
Standard Area 1 = 13526			Recovery = 126.79%			
31) Chrysene-d12	6.024	240	16597	4000.000	ng/ml	0.00
Standard Area 1 = 12766			Recovery = 130.01%			
36) Perylene-d12	7.110	264	18758	4000.000	ng/ml	0.00
Standard Area 1 = 15405			Recovery = 121.77%			
System Monitoring Compounds						
2) 2-Fluorophenol	1.413	112	10839	10526.593	ng/ml	-0.01
Spiked Amount 5000.000	Range 15 - 110		Recovery = 210.53%#			
3) Phenol-d6	1.824	99	12494	10382.529	ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 207.65%#			
7) Nitrobenzene-d5	2.283	82	10441	10736.315	ng/ml	-0.01
Spiked Amount 2500.000	Range 30 - 130		Recovery = 429.45%#			
13) 2-Fluorobiphenyl	3.263	172	29935	9869.832	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 394.79%#			
21) 2,4,6-Tribromophenol	4.085	330	4599	11598.280	ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 231.97%#			
30) 4-Terphenyl-d14	5.419	244	38465	10765.567	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 430.62%#			
Target Compounds						Qvalue
4) Bis(2-chloroethyl)ether	1.873	93	10477	10064.152	ng/ml	97
5) n-nitrosodi-n-propylamine	2.210	70	7451	9861.303	ng/ml	99
6) Hexachloroethane	2.259	117	4991	10218.468	ng/ml	99
9) Naphthalene	2.674	128	35444	9791.932	ng/ml#	100
10) Hexachlorobutadiene	2.750	225	8212	9903.956	ng/ml	100
11) 2-Methylnaphthalene	3.053	142	23577	10196.167	ng/ml	100

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV128\231211LVIical\
Data File : IL9.D
Acq On : 11 Dec 2023 01:44 pm
Operator : SV128:dv
Sample : IL9,32,, 10.0 Lot#10227
Misc : WG1864557,,ical
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 15 13:49:14 2023
Quant Method : I:\8270SIM\SV128\231211LVIical\SIM-LVI_231211_sv128.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Dec 15 13:43:56 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\SV128\231211LVIical\IL7.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
12) 1-Methylnaphthalene	3.108	142	21843	10030.826 ng/ml	99
14) 2-Chloronaphthalene	3.321	162	25161	9995.064 ng/ml	99
15) 2,6-Dinitrotoluene	3.526	165	4948	12075.343 ng/ml	99
16) Acenaphthylene	3.554	152	39626	10556.634 ng/ml	100
18) Acenaphthene	3.655	153	26405	9819.721 ng/ml	100
19) 2,4-Dinitrotoluene	3.755	165	6530	12367.842 ng/ml	94
20) Fluorene	3.948	166	27869	10283.706 ng/ml	100
23) 4,6-Dinitro-o-cresol	3.985	198	3511M6	11660.138 ng/ml	
24) Hexachlorobenzene	4.268	284	11102M6	9813.656 ng/ml	
25) Pentachlorophenol	4.380	266	6194M6	13178.841 ng/ml	
26) Phenanthrene	4.495	178	44667	9631.590 ng/ml	100
27) Anthracene	4.525	178	45607	10177.697 ng/ml	99
28) Fluoranthene	5.184	202	54565	10595.557 ng/ml	100
29) Pyrene	5.312	202	57292	10868.191 ng/ml	99
32) Benzo[a]anthracene	6.016	228	59053	8578.679 ng/ml	100
33) 3,3'-Dichlorobenzidine	6.013	252	23962	11048.587 ng/ml	99
34) Chrysene	6.040	228	55804	9753.093 ng/ml	99
35) Bis(2-ethylhexyl)phtha...	6.073	149	33533	12037.679 ng/ml	99
37) Benzo[b]fluoranthene	6.780	252	59643	10197.089 ng/ml	96
38) Benzo[k]fluoranthene	6.802	252	60932	11271.570 ng/ml	96
39) Benzo[a]pyrene	7.057	252	55738	10896.290 ng/ml	100
40) Indeno[1,2,3-cd]pyrene	8.231	276	51925	10151.650 ng/ml	100
41) Dibenzo[a,h]anthracene	8.269	278	52512M6	10558.946 ng/ml	
42) Benzo[g,h,i]perylene	8.547	276	50079	9321.411 ng/ml	100

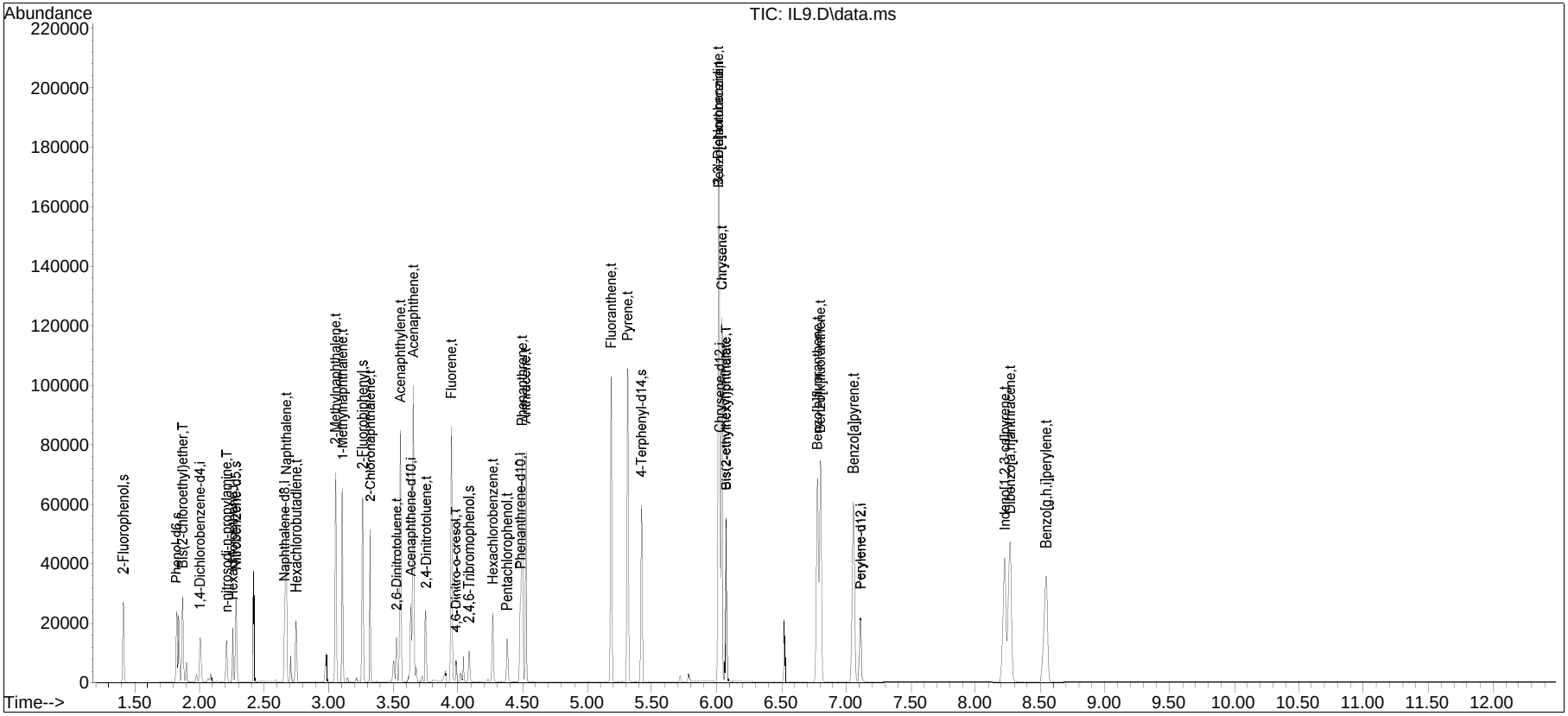
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV128\231211LVIical\
Data File : IL9.D
Acq On : 11 Dec 2023 01:44 pm
Operator : SV128:dv
Sample : IL9,32,, 10.0 Lot#10227
Misc : WG1864557,,ical
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 15 13:49:14 2023
Quant Method : I:\8270SIM\SV128\231211LVIical\SIM-LVI_231211_sv128.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Dec 15 13:43:56 2023
Response via : Initial Calibration

Sub List : Default - All compounds listedical\IL7.D•

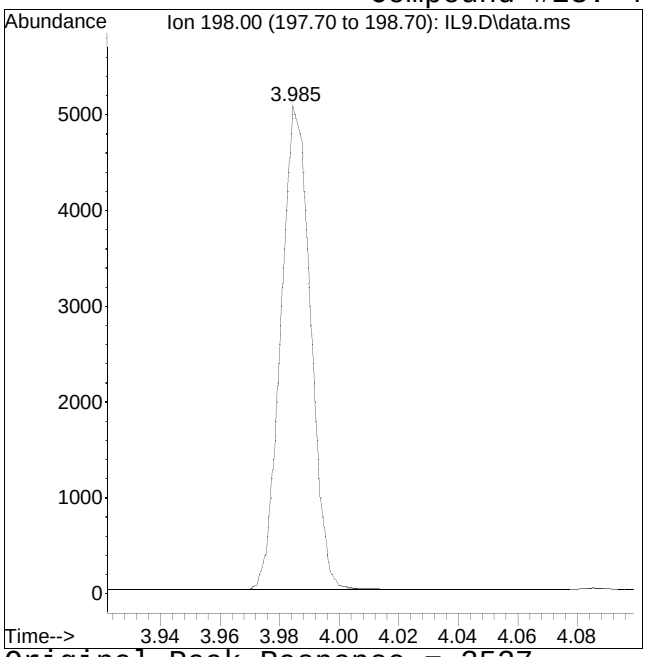


Manual Integration Report

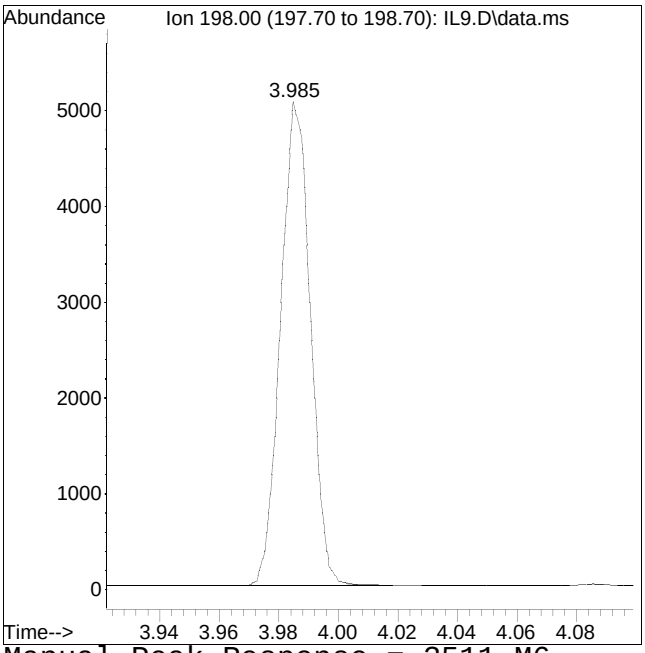
Data Path : I:\8270SIM\SV128\231211LVIQ
Data File : IL9.D
Date Inj'd : 12/11/2023 1:44 pm
Sample : IL9,32,, 10.0 Lot#10227

Method : SIM-LVI_231211_sv128.M
Operator : SV128:dv
Instrument : SV128
Quant Date : 12/15/2023 1:43 pm

Compound #23: 4,6-Dinitro-o-cresol



Original Peak Response = 3527



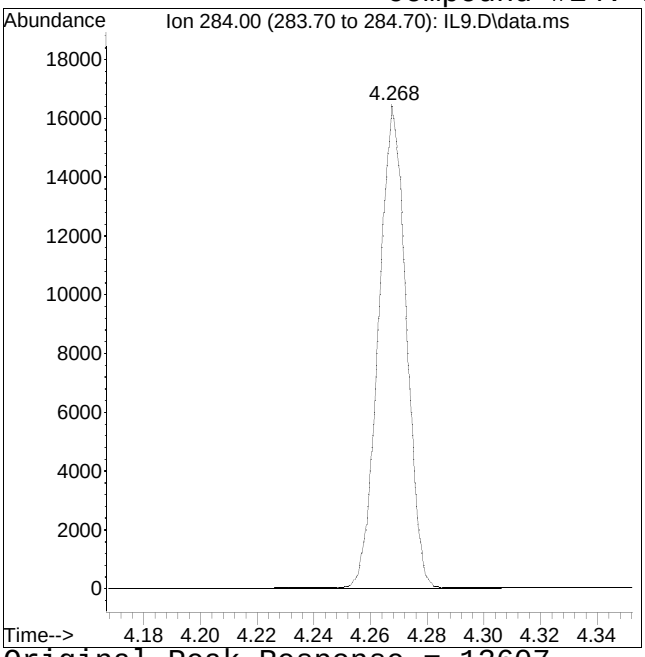
Manual Peak Response = 3511 M6

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

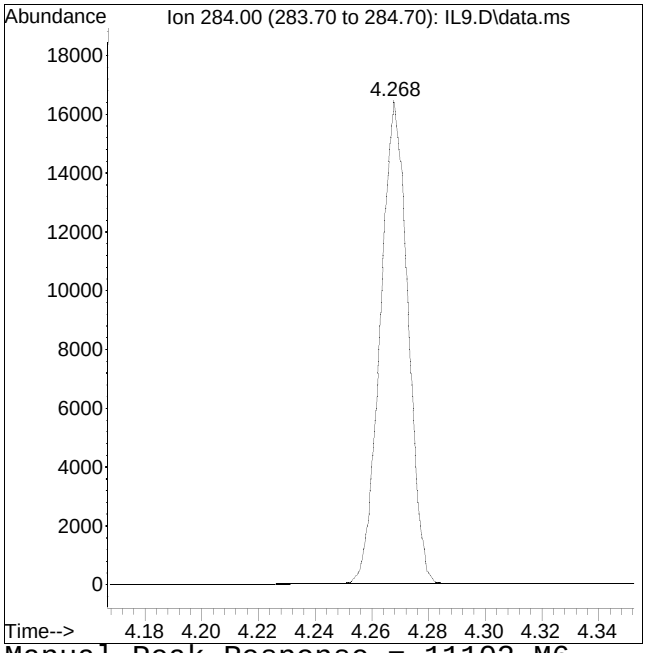
Manual Integration Report

Data Path : I:\8270SIM\SV128\231211LVIQMethod : SIM-LVI_231211_sv128.M
Data File : IL9.D Operator : SV128:dv
Date Inj'd : 12/11/2023 1:44 pm Instrument : SV128
Sample : IL9,32,, 10.0 Lot#10227 Quant Date : 12/15/2023 1:43 pm

Compound #24: Hexachlorobenzene



Original Peak Response = 13607



Manual Peak Response = 11102 M6

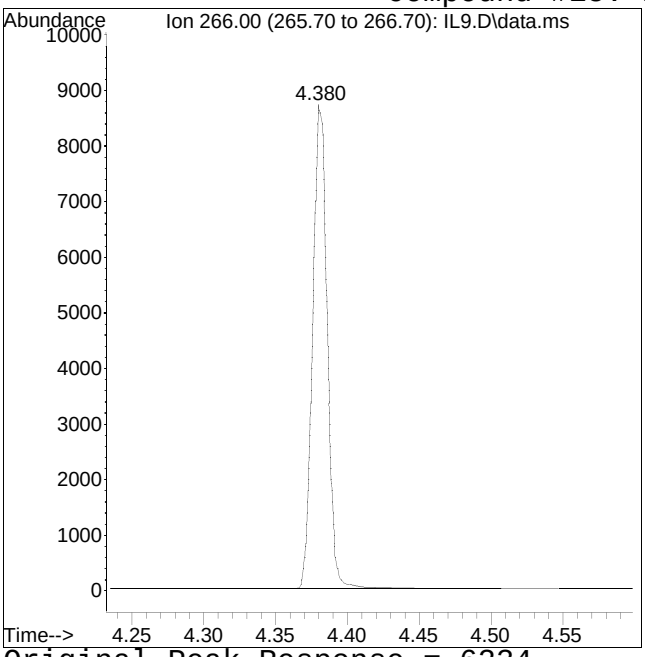
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

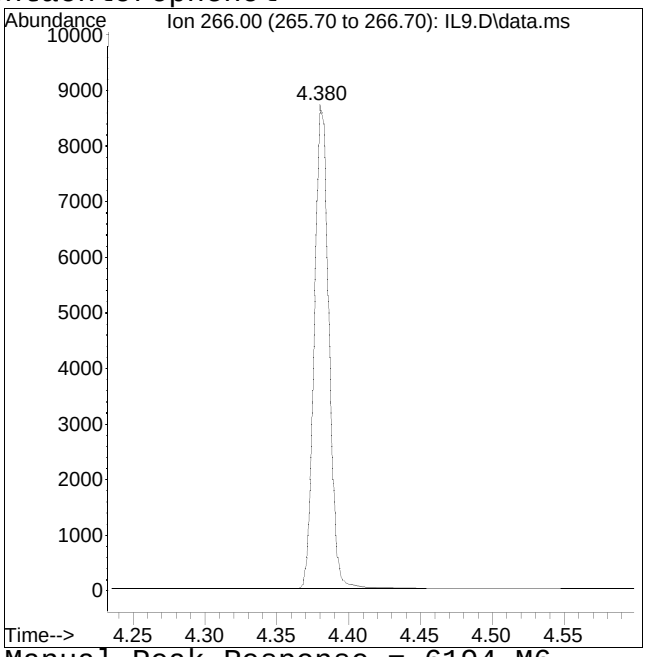
Data Path : I:\8270SIM\SV128\231211LVIQ
Data File : IL9.D
Date Inj'd : 12/11/2023 1:44 pm
Sample : IL9,32,, 10.0 Lot#10227

Method : SIM-LVI_231211_sv128.M
Operator : SV128:dv
Instrument : SV128
Quant Date : 12/15/2023 1:43 pm

Compound #25: Pentachlorophenol



Original Peak Response = 6234



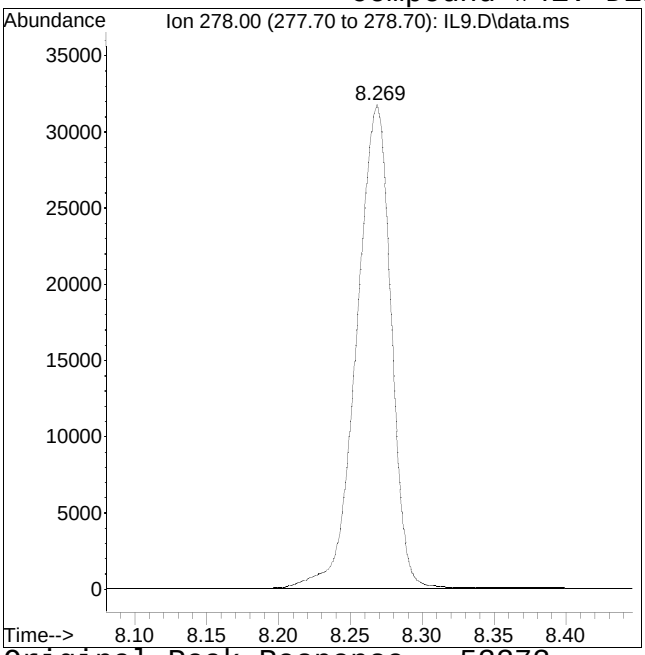
Manual Peak Response = 6194 M6

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

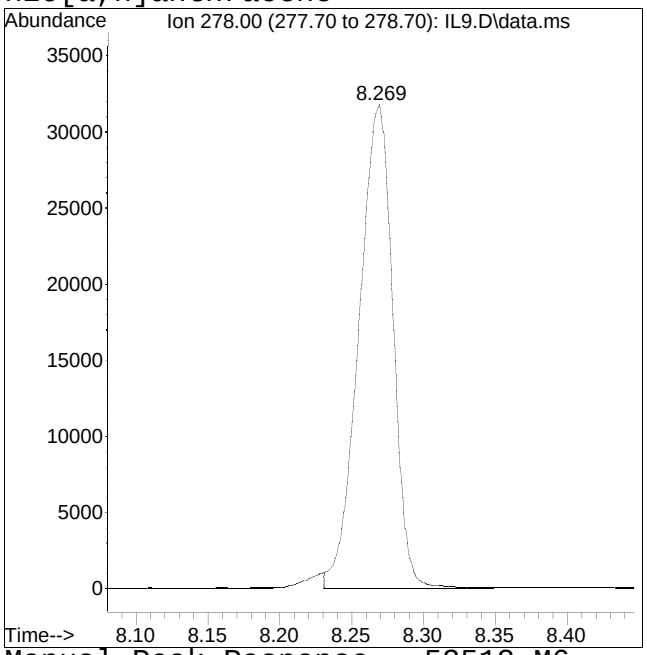
Manual Integration Report

Data Path : I:\8270SIM\SV128\231211LVIQMethod : SIM-LVI_231211_sv128.M
Data File : IL9.D Operator : SV128:dv
Date Inj'd : 12/11/2023 1:44 pm Instrument : SV128
Sample : IL9,32,, 10.0 Lot#10227 Quant Date : 12/15/2023 1:43 pm

Compound #41: Dibenzo[a,h]anthracene



Original Peak Response = 53373



Manual Peak Response = 52512 M6

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV128\231211LVIical\
Data File : IL8.D
Acq On : 11 Dec 2023 02:00 pm
Operator : SV128:dv
Sample : IL8,32,, 5.0 Lot#10228
Misc : WG1864557,,ical
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Dec 15 13:51:20 2023
Quant Method : I:\8270SIM\SV128\231211LVIical\SIM-LVI_231211_sv128.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Dec 15 13:43:50 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\SV128\231211LVIical\IL7.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.007	152	3491	4000.000	ng/ml	0.00
Standard Area 1 = 2982			Recovery = 117.07%			
8) Naphthalene-d8	2.666	136	12086	4000.000	ng/ml	0.00
Standard Area 1 = 10566			Recovery = 114.39%			
17) Acenaphthene-d10	3.640	164	6945	4000.000	ng/ml	0.00
Standard Area 1 = 6070			Recovery = 114.42%			
22) Phenanthrene-d10	4.484	188	14579	4000.000	ng/ml	0.00
Standard Area 1 = 13526			Recovery = 107.79%			
31) Chrysene-d12	6.022	240	13118	4000.000	ng/ml	0.00
Standard Area 1 = 12766			Recovery = 102.76%			
36) Perylene-d12	7.104	264	14285	4000.000	ng/ml	0.00
Standard Area 1 = 15405			Recovery = 92.73%			
System Monitoring Compounds						
2) 2-Fluorophenol	1.416	112	4642	5280.451	ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 105.61%			
3) Phenol-d6	1.828	99	5414	5269.715	ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 105.39%			
7) Nitrobenzene-d5	2.290	82	4487	5404.263	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 216.17%#			
13) 2-Fluorobiphenyl	3.267	172	13511	5202.550	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 208.10%#			
21) 2,4,6-Tribromophenol	4.089	330	1963	5656.205	ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 113.12%#			
30) 4-Terphenyl-d14	5.420	244	16767	5520.303	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 220.81%#			
Target Compounds						Qvalue
4) Bis(2-chloroethyl)ether	1.877	93	4535	5102.521	ng/ml	97
5) n-nitrosodi-n-propylamine	2.213	70	3320	5146.656	ng/ml	100
6) Hexachloroethane	2.265	117	2148M6	5151.098	ng/ml	
9) Naphthalene	2.678	128	15738	5077.776	ng/ml#	100
10) Hexachlorobutadiene	2.754	225	3598	5067.797	ng/ml	100
11) 2-Methylnaphthalene	3.057	142	10535	5320.853	ng/ml	99
12) 1-Methylnaphthalene	3.112	142	9816	5264.502	ng/ml	100
14) 2-Chloronaphthalene	3.325	162	11387	5282.814	ng/ml	100
15) 2,6-Dinitrotoluene	3.527	165	2059	5868.464	ng/ml	99
16) Acenaphthylene	3.558	152	17597	5474.975	ng/ml	100
18) Acenaphthene	3.655	153	11986	5092.862	ng/ml	99

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV128\231211LVIical\
Data File : IL8.D
Acq On : 11 Dec 2023 02:00 pm
Operator : SV128:dv
Sample : IL8,32,, 5.0 Lot#10228
Misc : WG1864557,,ical
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Dec 15 13:51:20 2023
Quant Method : I:\8270SIM\SV128\231211LVIical\SIM-LVI_231211_sv128.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Dec 15 13:43:50 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\SV128\231211LVIical\IL7.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
19) 2,4-Dinitrotoluene	3.756	165	2708	5860.087	ng/ml	97
20) Fluorene	3.949	166	12611	5316.826	ng/ml	99
23) 4,6-Dinitro-o-cresol	3.985	198	1460M4	5703.771	ng/ml	
24) Hexachlorobenzene	4.268	284	4932M6	5128.485	ng/ml	
25) Pentachlorophenol	4.384	266	2585	6469.980	ng/ml	99
26) Phenanthrene	4.496	178	19885	5043.978	ng/ml	100
27) Anthracene	4.526	178	20155	5290.993	ng/ml	100
28) Fluoranthene	5.184	202	23239M6	5308.398	ng/ml	
29) Pyrene	5.312	202	24764	5526.122	ng/ml	100
32) Benzo[a]anthracene	6.014	228	24102	4429.896	ng/ml	100
33) 3,3'-Dichlorobenzidine	6.011	252	9200	5367.023	ng/ml	99
34) Chrysene	6.036	228	22882	5059.796	ng/ml	99
35) Bis(2-ethylhexyl)phtha...	6.071	149	12397	5630.525	ng/ml	98
37) Benzo[b]fluoranthene	6.774	252	23830	5349.917	ng/ml	100
38) Benzo[k]fluoranthene	6.796	252	22868	5554.864	ng/ml	99
39) Benzo[a]pyrene	7.051	252	21394	5491.937	ng/ml	100
40) Indeno[1,2,3-cd]pyrene	8.219	276	20237	5195.323	ng/ml	100
41) Dibenzo[a,h]anthracene	8.260	278	20722	5471.419	ng/ml	100
42) Benzo[g,h,i]perylene	8.532	276	20873	5101.727	ng/ml	99

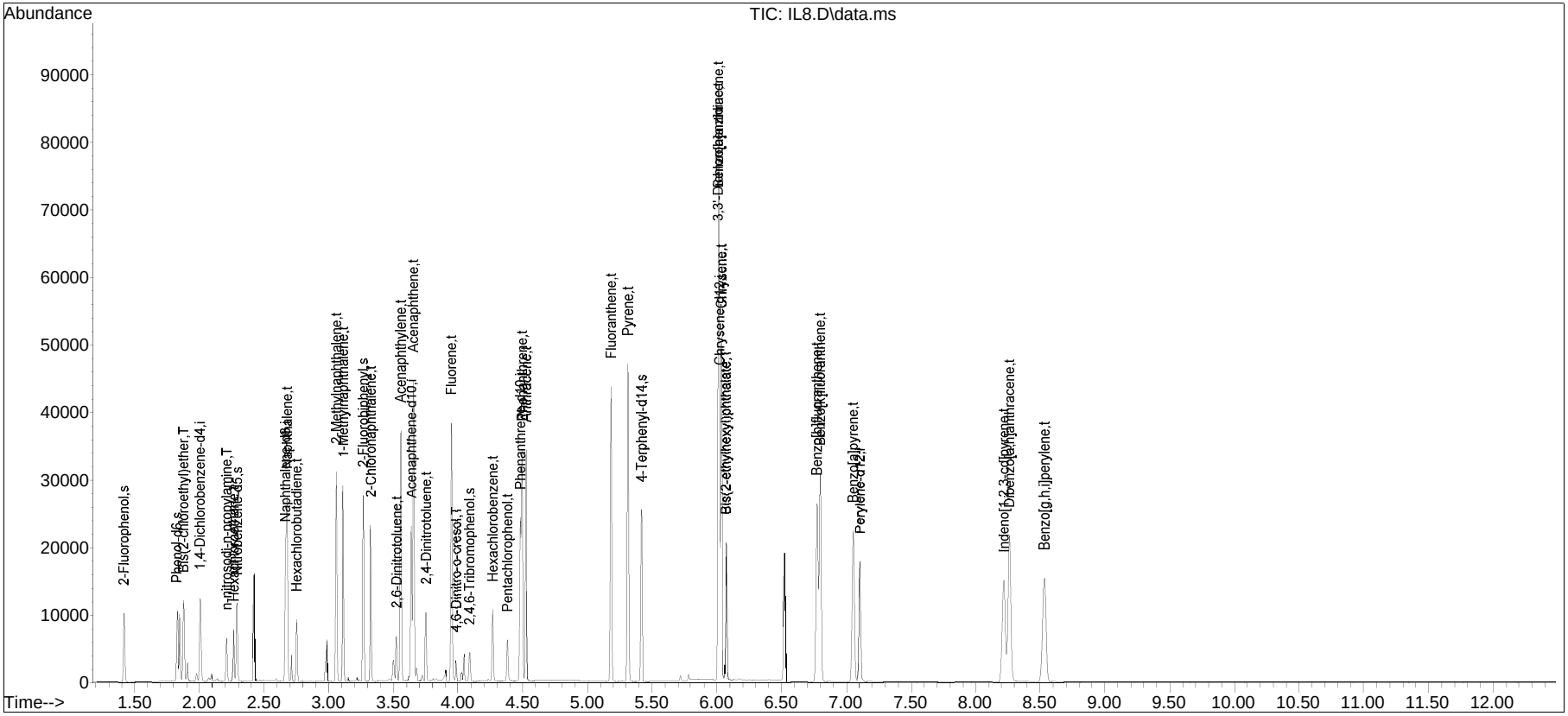
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV128\231211LVIical\
Data File : IL8.D
Acq On : 11 Dec 2023 02:00 pm
Operator : SV128:dv
Sample : IL8,32,, 5.0 Lot#10228
Misc : WG1864557,,ical
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Dec 15 13:51:20 2023
Quant Method : I:\8270SIM\SV128\231211LVIical\SIM-LVI_231211_sv128.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Dec 15 13:43:50 2023
Response via : Initial Calibration

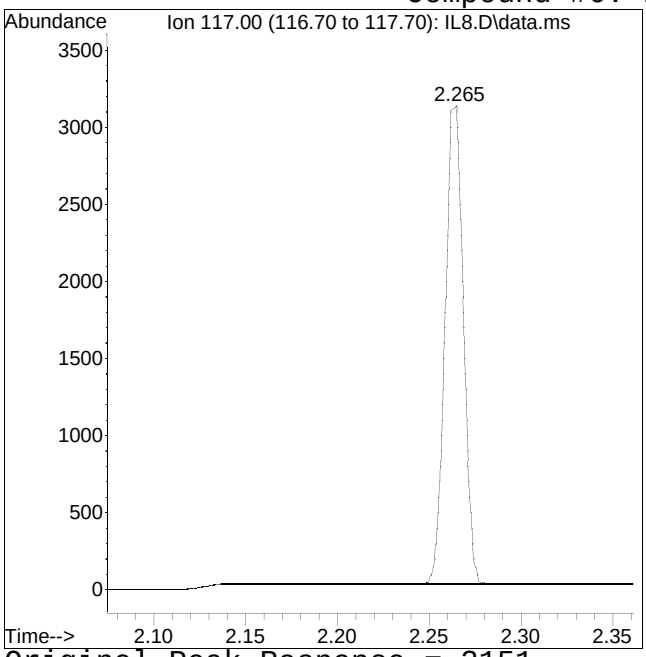
Sub List : Default - All compounds listedical\IL7.D•



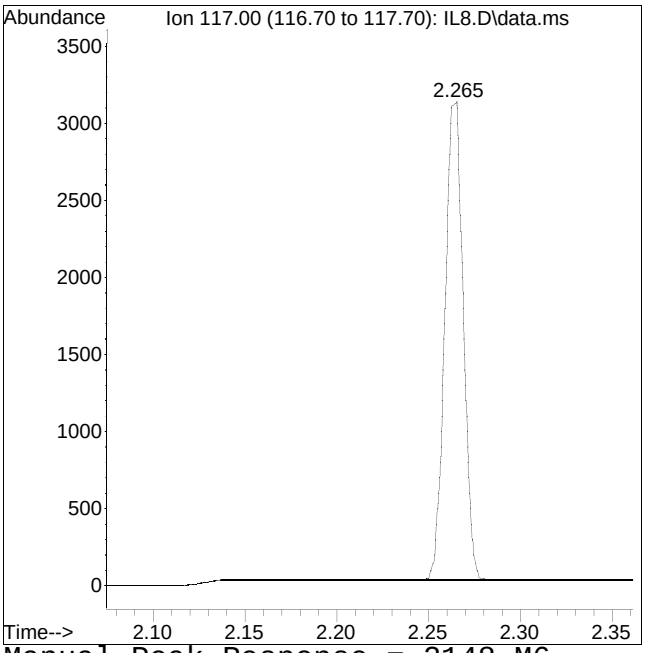
Manual Integration Report

Data Path : I:\8270SIM\SV128\231211LVIQMethod : SIM-LVI_231211_sv128.M
Data File : IL8.D Operator : SV128:dv
Date Inj'd : 12/11/2023 2:00 pm Instrument : SV128
Sample : IL8,32,, 5.0 Lot#10228 Quant Date : 12/15/2023 1:43 pm

Compound #6: Hexachloroethane



Original Peak Response = 2151



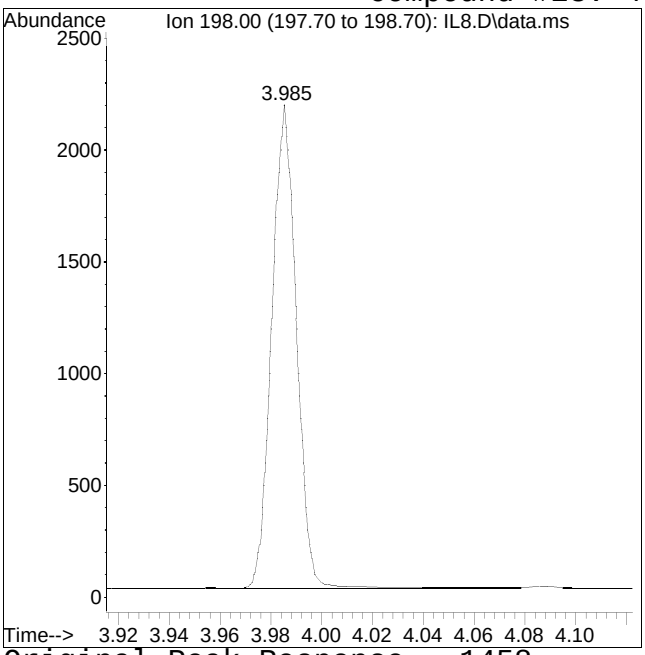
Manual Peak Response = 2148 M6

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

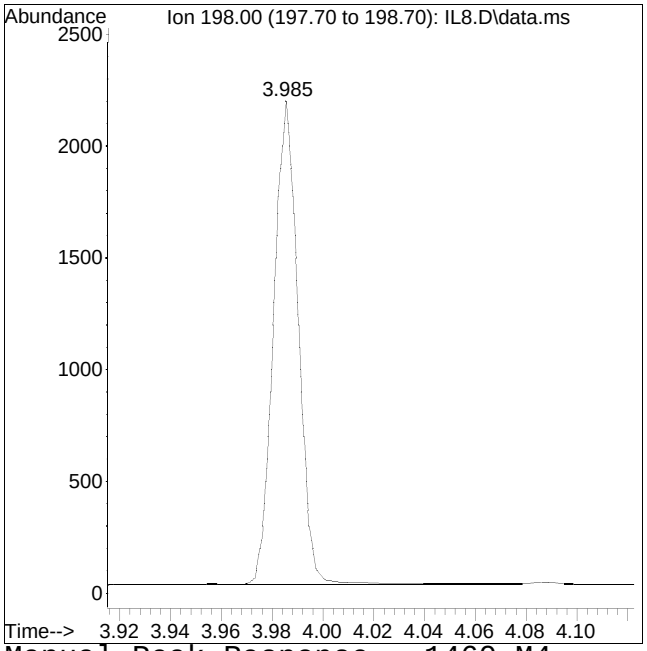
Manual Integration Report

Data Path : I:\8270SIM\SV128\231211LVIQMethod : SIM-LVI_231211_sv128.M
Data File : IL8.D Operator : SV128:dv
Date Inj'd : 12/11/2023 2:00 pm Instrument : SV128
Sample : IL8,32,, 5.0 Lot#10228 Quant Date : 12/15/2023 1:43 pm

Compound #23: 4,6-Dinitro-o-cresol



Original Peak Response = 1458



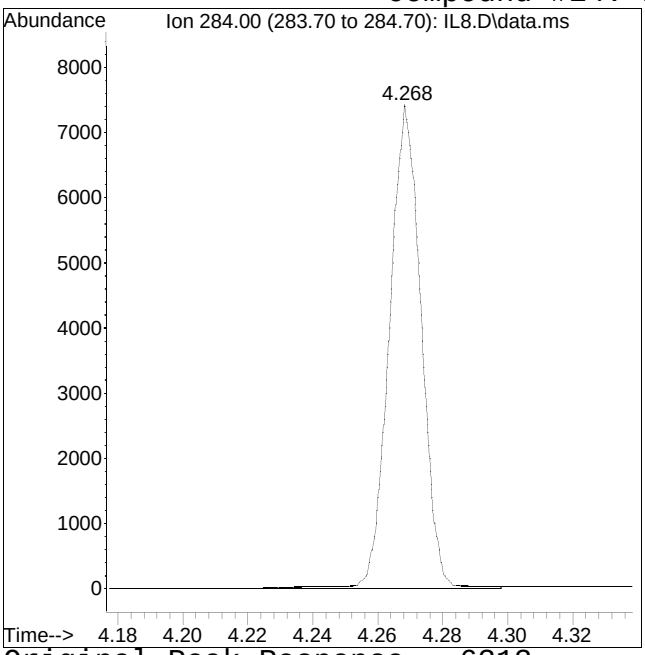
Manual Peak Response = 1460 M4

M4 = Poor automated baseline construction.

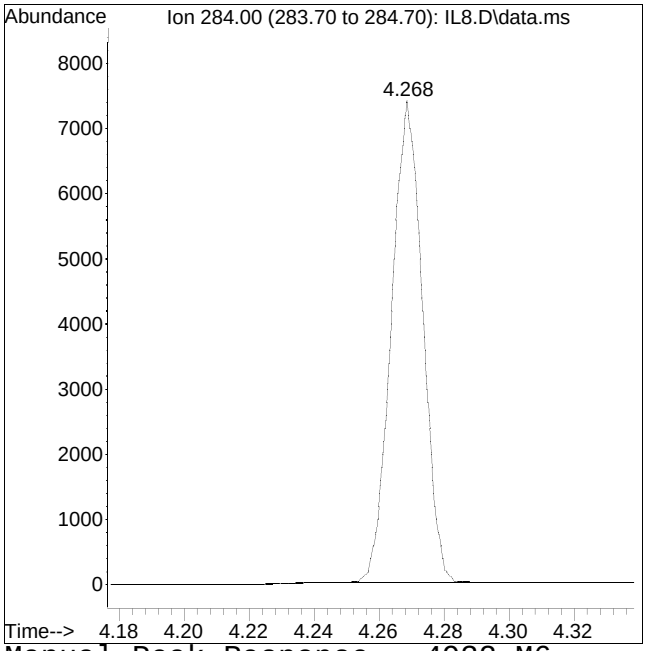
Manual Integration Report

Data Path : I:\8270SIM\SV128\231211LVIQMethod : SIM-LVI_231211_sv128.M
Data File : IL8.D Operator : SV128:dv
Date Inj'd : 12/11/2023 2:00 pm Instrument : SV128
Sample : IL8,32,, 5.0 Lot#10228 Quant Date : 12/15/2023 1:43 pm

Compound #24: Hexachlorobenzene



Original Peak Response = 6313



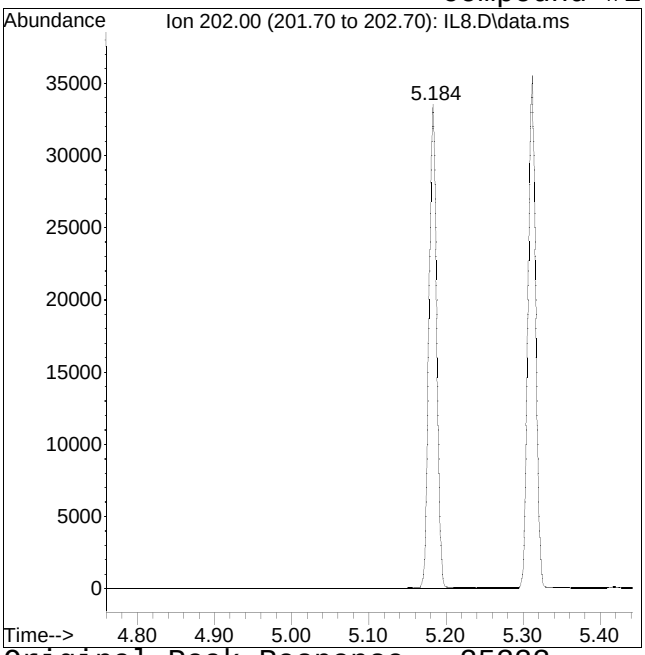
Manual Peak Response = 4932 M6

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

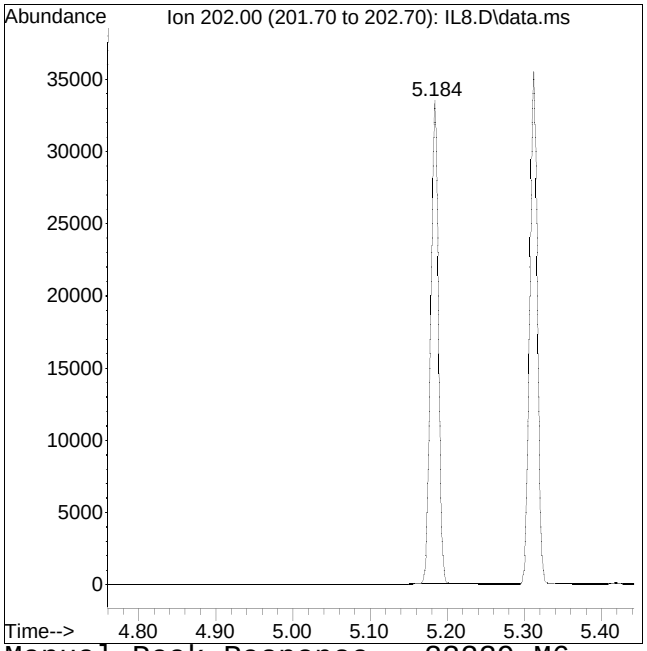
Manual Integration Report

Data Path : I:\8270SIM\SV128\231211LVIQMethod : SIM-LVI_231211_sv128.M
Data File : IL8.D Operator : SV128:dv
Date Inj'd : 12/11/2023 2:00 pm Instrument : SV128
Sample : IL8,32,, 5.0 Lot#10228 Quant Date : 12/15/2023 1:43 pm

Compound #28: Fluoranthene



Original Peak Response = 25333



Manual Peak Response = 23239 M6

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV128\231211LVIical\
Data File : IL7.D
Acq On : 11 Dec 2023 02:17 pm
Operator : SV128:dv
Sample : IL7,32,, 1.0 Lot#10229
Misc : WG1864557,,ical
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Dec 18 10:39:47 2023
Quant Method : I:\8270SIM\SV128\231211LVIical\SIM-LVI_231211_sv128.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Dec 15 13:43:25 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\SV128\231211LVIical\IL7.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.014	152	2982M1	4000.000	ng/ml	0.00
Standard Area 1 = 2982			Recovery = 100.00%			
8) Naphthalene-d8	2.672	136	10566	4000.000	ng/ml	0.00
Standard Area 1 = 10566			Recovery = 100.00%			
17) Acenaphthene-d10	3.640	164	6068	4000.000	ng/ml	0.00
Standard Area 1 = 6070			Recovery = 99.97%			
22) Phenanthrene-d10	4.484	188	13526	4000.000	ng/ml	0.00
Standard Area 1 = 13526			Recovery = 100.00%			
31) Chrysene-d12	6.019	240	12773	4000.000	ng/ml	0.00
Standard Area 1 = 12766			Recovery = 100.05%			
36) Perylene-d12	7.102	264	15389	4000.000	ng/ml	0.00
Standard Area 1 = 15405			Recovery = 99.90%			
System Monitoring Compounds						
2) 2-Fluorophenol	1.424	112	794M6	1057.374	ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 21.15%			
3) Phenol-d6	1.831	99	929M6	1058.588	ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 21.17%			
7) Nitrobenzene-d5	2.293	82	757M6	1067.379	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 42.70%			
13) 2-Fluorobiphenyl	3.270	172	2395	1054.888	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 42.20%			
21) 2,4,6-Tribromophenol	4.089	330	323	1065.207	ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 21.30%			
30) 4-Terphenyl-d14	5.420	244	3059	1085.539	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 43.42%			
Target Compounds						Qvalue
4) Bis(2-chloroethyl)ether	1.884	93	758	998.433	ng/ml	100
5) n-nitrosodi-n-propylamine	2.220	70	554	1005.400	ng/ml	100
6) Hexachloroethane	2.268	117	367	1030.324	ng/ml	100
9) Naphthalene	2.681	128	2776	1024.508	ng/ml#	100
10) Hexachlorobutadiene	2.757	225	620	998.899	ng/ml	100
11) 2-Methylnaphthalene	3.060	142	1820M6	1051.453	ng/ml	
12) 1-Methylnaphthalene	3.115	142	1712	1050.264	ng/ml	100
14) 2-Chloronaphthalene	3.328	162	1992M6	1057.103	ng/ml	

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV128\231211LVIical\
Data File : IL7.D
Acq On : 11 Dec 2023 02:17 pm
Operator : SV128:dv
Sample : IL7,32,, 1.0 Lot#10229
Misc : WG1864557,,ical
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Dec 18 10:39:47 2023
Quant Method : I:\8270SIM\SV128\231211LVIical\SIM-LVI_231211_sv128.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Dec 15 13:43:25 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\SV128\231211LVIical\IL7.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
15) 2,6-Dinitrotoluene	3.527	165	321M4	1046.514	ng/ml	
16) Acenaphthylene	3.558	152	3011M6	1071.584	ng/ml	
18) Acenaphthene	3.658	153	2110	1026.117	ng/ml	100
19) 2,4-Dinitrotoluene	3.756	165	422	1045.188	ng/ml	100
20) Fluorene	3.952	166	2214M6	1068.334	ng/ml	
23) 4,6-Dinitro-o-cresol	3.985	198	229M6	964.280	ng/ml	
24) Hexachlorobenzene	4.268	284	897M6	1005.349	ng/ml	
25) Pentachlorophenol	4.384	266	388	1046.725	ng/ml	100
26) Phenanthrene	4.496	178	3682	1006.676	ng/ml	100
27) Anthracene	4.525	178	3624	1025.418	ng/ml	100
28) Fluoranthene	5.184	202	4237	1043.189	ng/ml	100
29) Pyrene	5.312	202	4548	1093.902	ng/ml	100
32) Benzo[a]anthracene	6.014	228	4541	857.169	ng/ml	100
33) 3,3'-Dichlorobenzidine	6.011	252	1643M4	984.369	ng/ml	
34) Chrysene	6.036	228	4555	1034.432	ng/ml	100
35) Bis(2-ethylhexyl)phtha...	6.071	149	1935	902.585	ng/ml	100
37) Benzo[b]fluoranthene	6.775	252	4827M6	1005.936	ng/ml	
38) Benzo[k]fluoranthene	6.794	252	4558	1027.755	ng/ml	100
39) Benzo[a]pyrene	7.049	252	4358	1038.462	ng/ml	100
40) Indeno[1,2,3-cd]pyrene	8.214	276	4364	1039.970	ng/ml	100
41) Dibenzo[a,h]anthracene	8.256	278	4480	1098.035	ng/ml	100
42) Benzo[g,h,i]perylene	8.524	276	4710M3	1068.619	ng/ml	

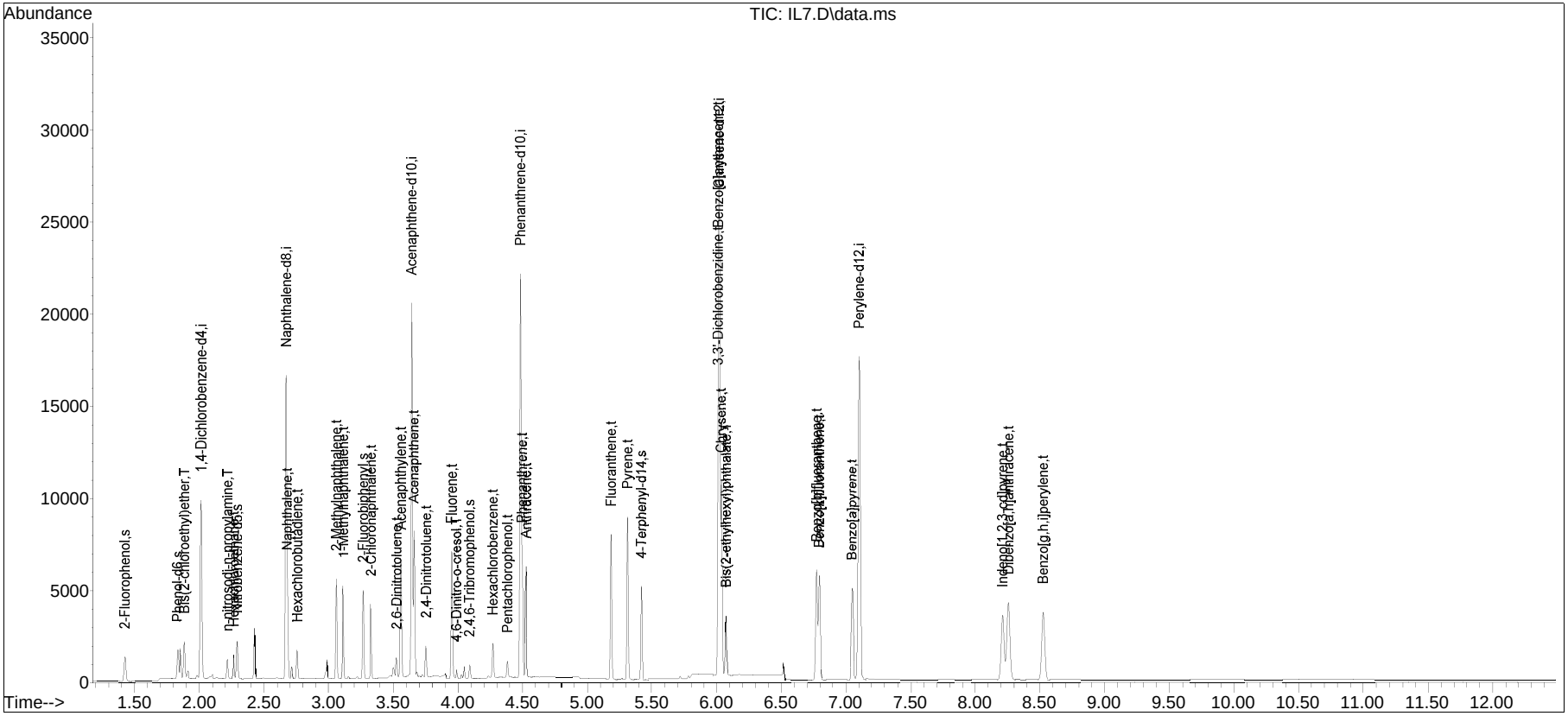
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV128\231211LVIical\
Data File : IL7.D
Acq On : 11 Dec 2023 02:17 pm
Operator : SV128:dv
Sample : IL7,32,, 1.0 Lot#10229
Misc : WG1864557,,ical
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Dec 18 10:39:47 2023
Quant Method : I:\8270SIM\SV128\231211LVIical\SIM-LVI_231211_sv128.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Dec 15 13:43:25 2023
Response via : Initial Calibration

Sub List : Default - All compounds listedical\IL7.D•

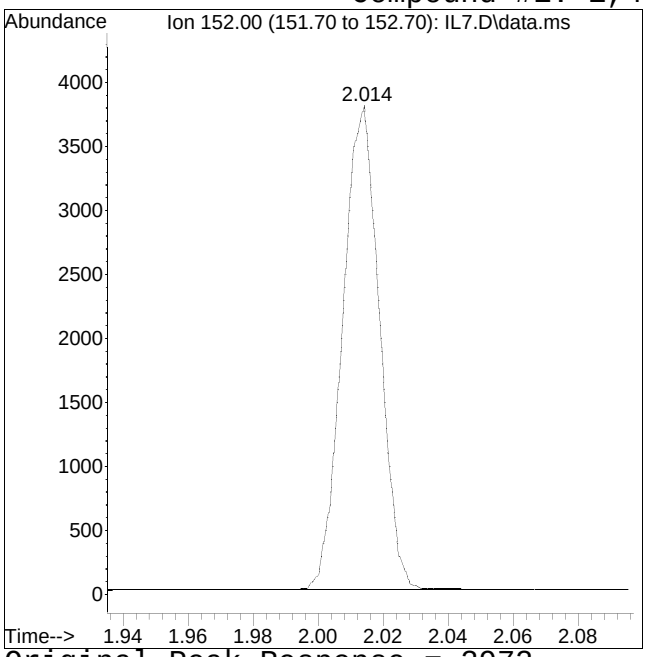


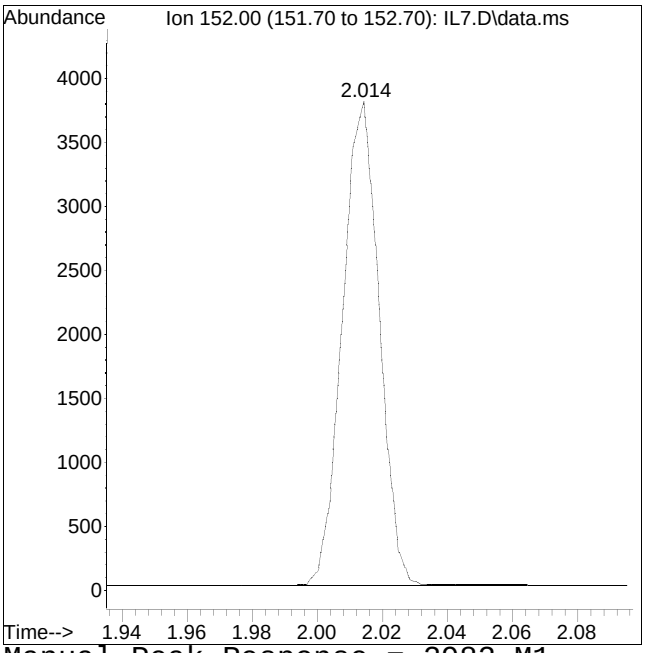
Manual Integration Report

Data Path : I:\8270SIM\SV128\231211LVIQ
Data File : IL7.D
Date Inj'd : 12/11/2023 2:17 pm
Sample : IL7,32,, 1.0 Lot#10229

Method : SIM-LVI_231211_sv128.M
Operator : SV128:dv
Instrument : SV128
Quant Date : 12/15/2023 1:43 pm

Compound #1: 1,4-Dichlorobenzene-d4





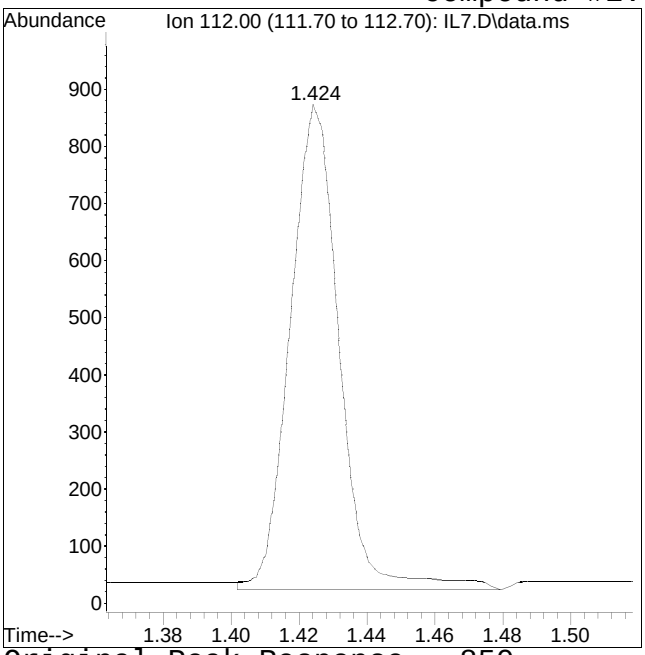
Original Peak Response = 2972 Manual Peak Response = 2982 M1

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

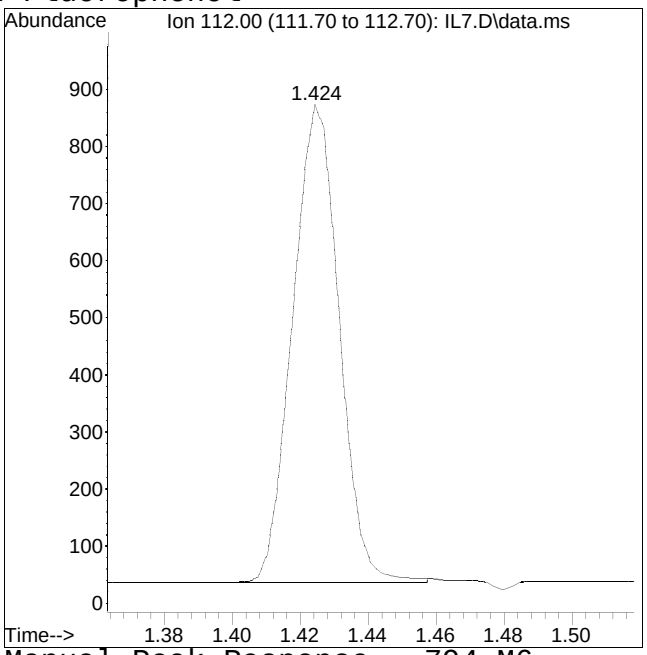
Manual Integration Report

Data Path : I:\8270SIM\SV128\231211LVIQMethod : SIM-LVI_231211_sv128.M
Data File : IL7.D Operator : SV128:dv
Date Inj'd : 12/11/2023 2:17 pm Instrument : SV128
Sample : IL7,32,, 1.0 Lot#10229 Quant Date : 12/15/2023 1:43 pm

Compound #2: 2-Fluorophenol



Original Peak Response = 850



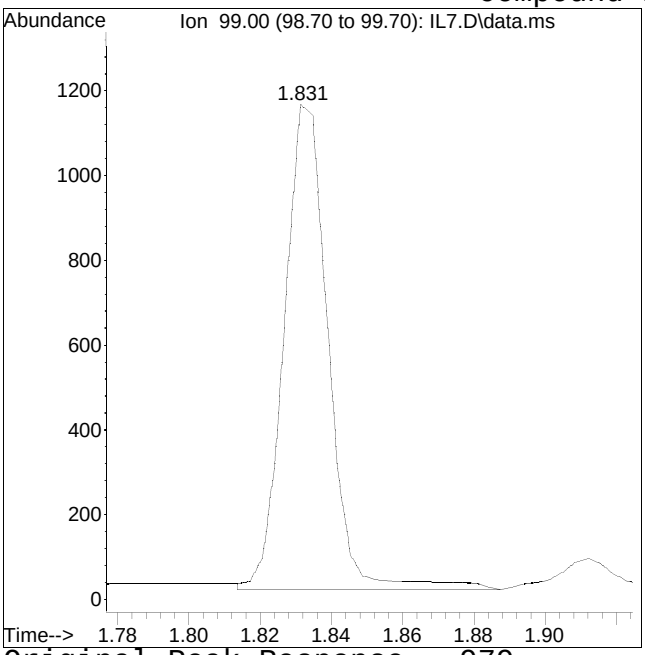
Manual Peak Response = 794 M6

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

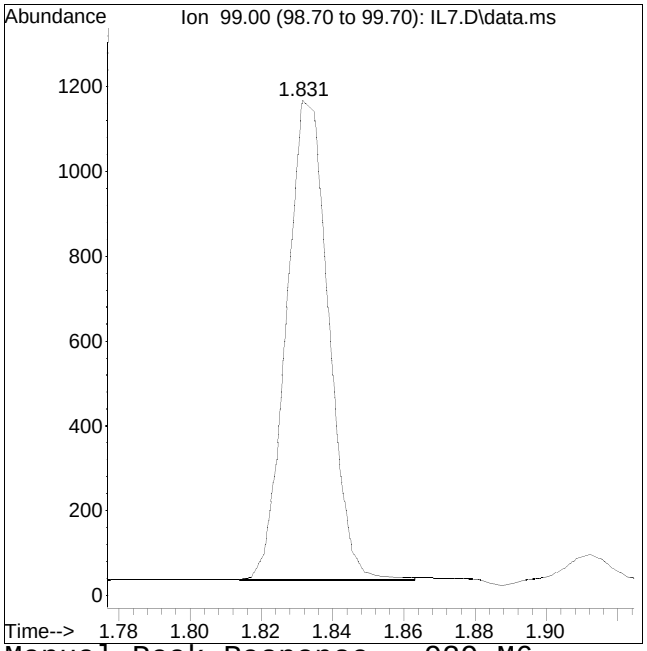
Manual Integration Report

Data Path : I:\8270SIM\SV128\231211LVIQMethod : SIM-LVI_231211_sv128.M
Data File : IL7.D Operator : SV128:dv
Date Inj'd : 12/11/2023 2:17 pm Instrument : SV128
Sample : IL7,32,, 1.0 Lot#10229 Quant Date : 12/15/2023 1:43 pm

Compound #3: Phenol-d6



Original Peak Response = 979



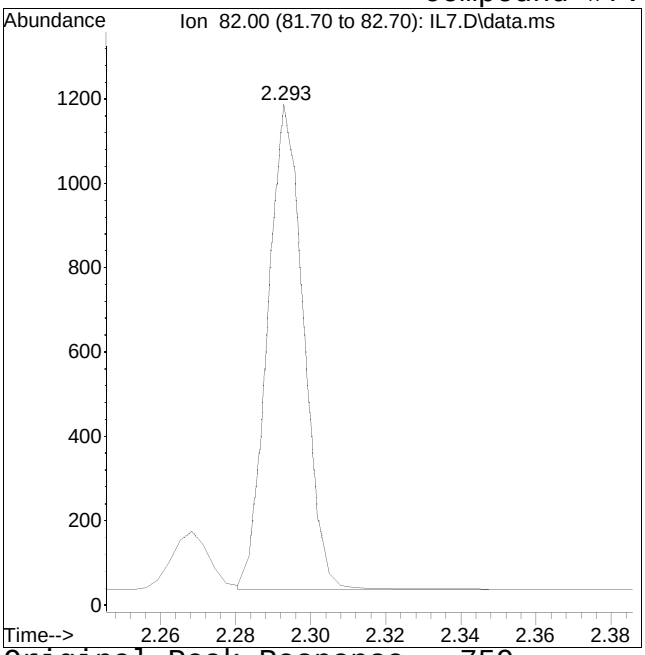
Manual Peak Response = 929 M6

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

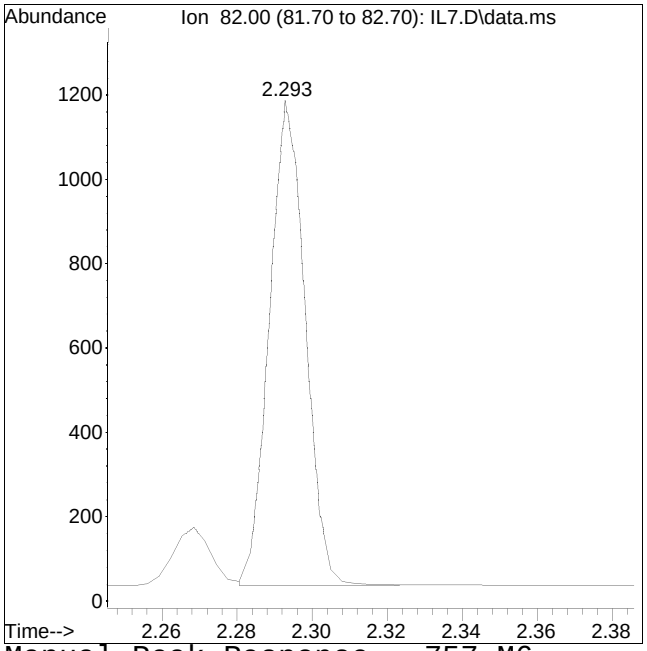
Manual Integration Report

Data Path : I:\8270SIM\SV128\231211LVIQMethod : SIM-LVI_231211_sv128.M
Data File : IL7.D Operator : SV128:dv
Date Inj'd : 12/11/2023 2:17 pm Instrument : SV128
Sample : IL7,32,, 1.0 Lot#10229 Quant Date : 12/15/2023 1:43 pm

Compound #7: Nitrobenzene-d5



Original Peak Response = 759



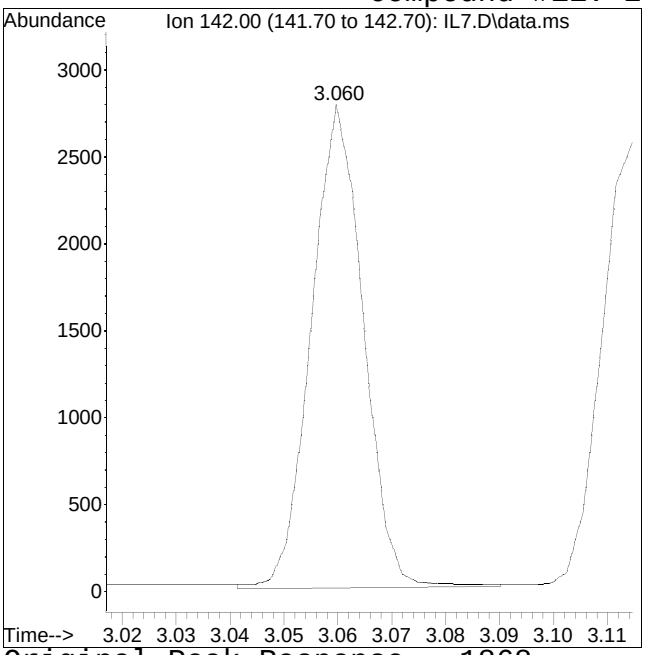
Manual Peak Response = 757 M6

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

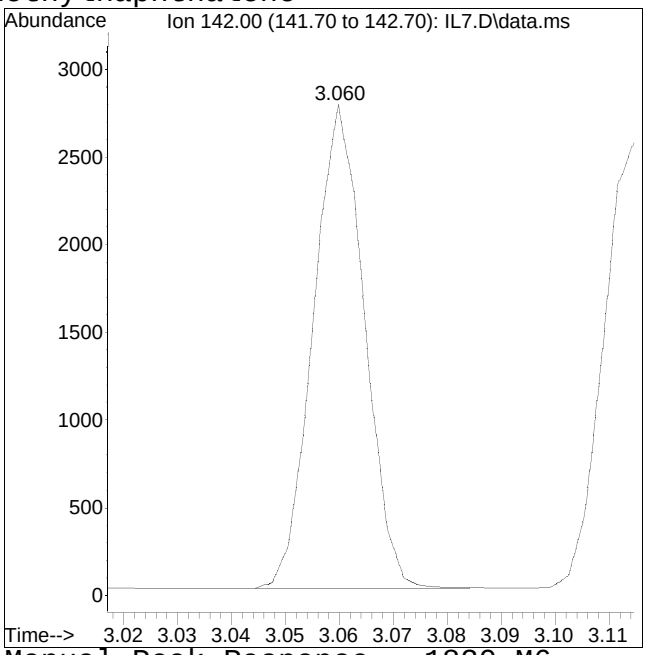
Manual Integration Report

Data Path : I:\8270SIM\SV128\231211LVIQMethod : SIM-LVI_231211_sv128.M
Data File : IL7.D Operator : SV128:dv
Date Inj'd : 12/11/2023 2:17 pm Instrument : SV128
Sample : IL7,32,, 1.0 Lot#10229 Quant Date : 12/15/2023 1:43 pm

Compound #11: 2-Methylnaphthalene



Original Peak Response = 1868



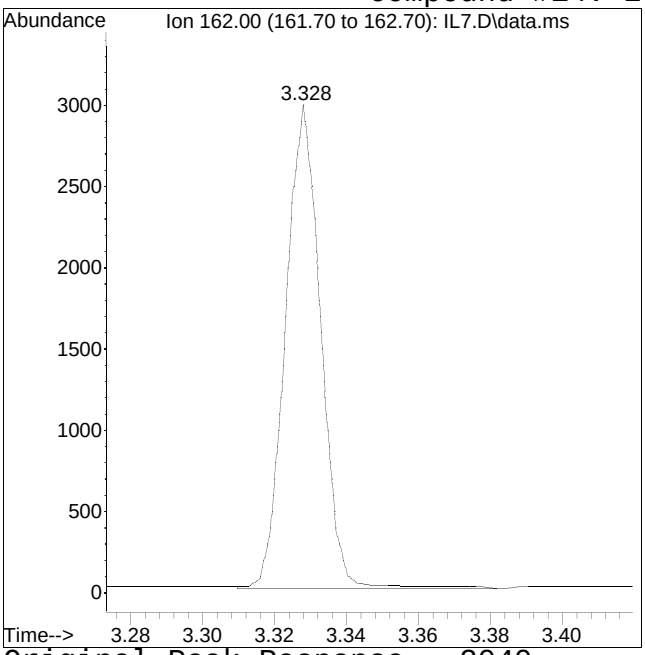
Manual Peak Response = 1820 M6

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

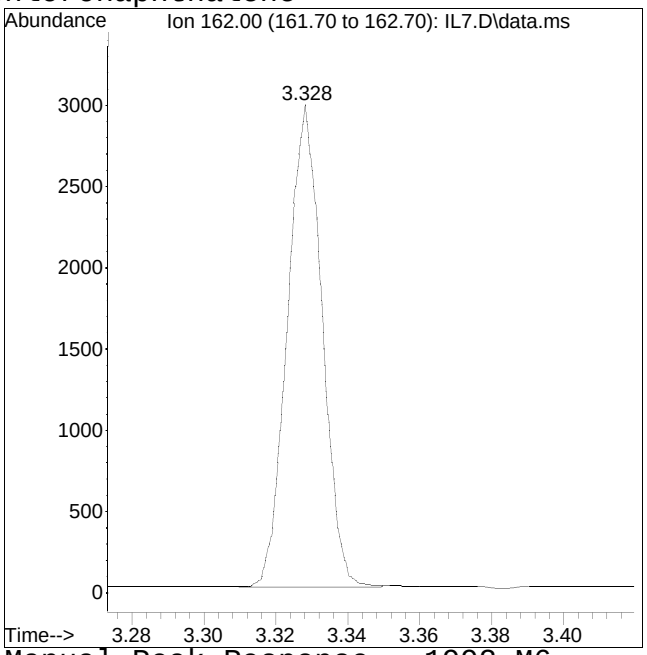
Manual Integration Report

Data Path : I:\8270SIM\SV128\231211LVIQMethod : SIM-LVI_231211_sv128.M
Data File : IL7.D Operator : SV128:dv
Date Inj'd : 12/11/2023 2:17 pm Instrument : SV128
Sample : IL7,32,, 1.0 Lot#10229 Quant Date : 12/15/2023 1:43 pm

Compound #14: 2-Chloronaphthalene



Original Peak Response = 2040



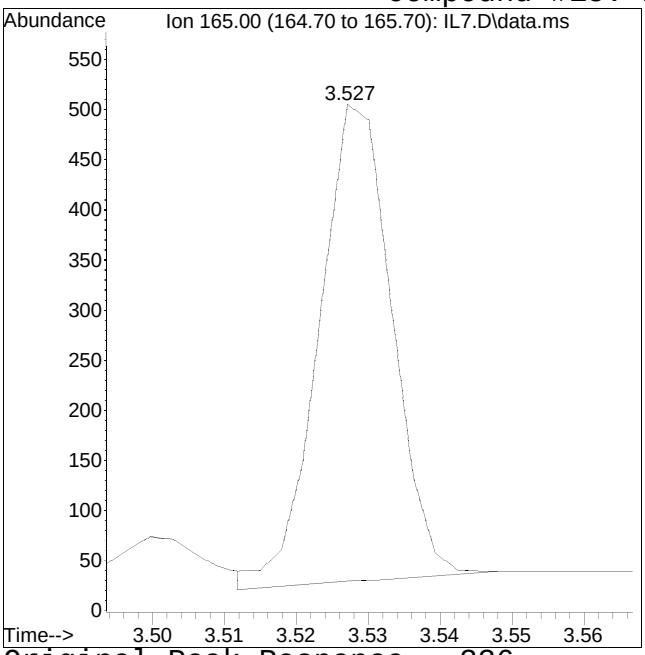
Manual Peak Response = 1992 M6

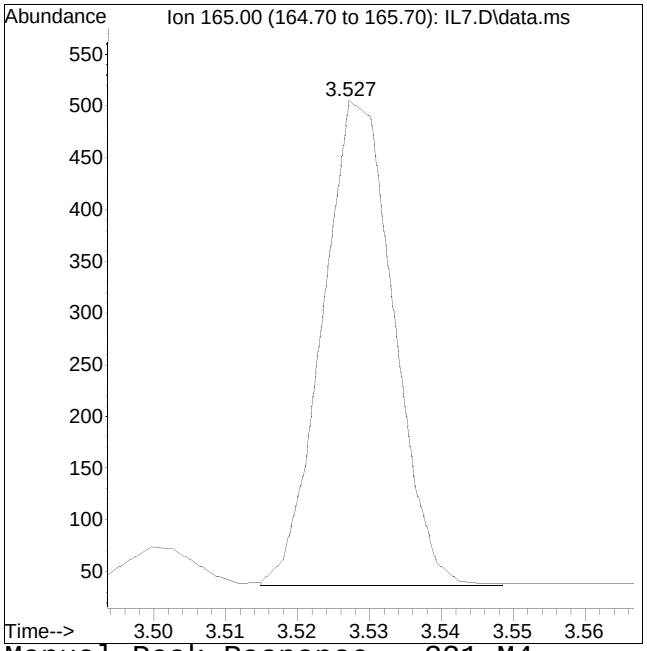
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

Data Path : I:\8270SIM\SV128\231211LVIQMethod : SIM-LVI_231211_sv128.M
Data File : IL7.D Operator : SV128:dv
Date Inj'd : 12/11/2023 2:17 pm Instrument : SV128
Sample : IL7,32,, 1.0 Lot#10229 Quant Date : 12/15/2023 1:43 pm

Compound #15: 2,6-Dinitrotoluene



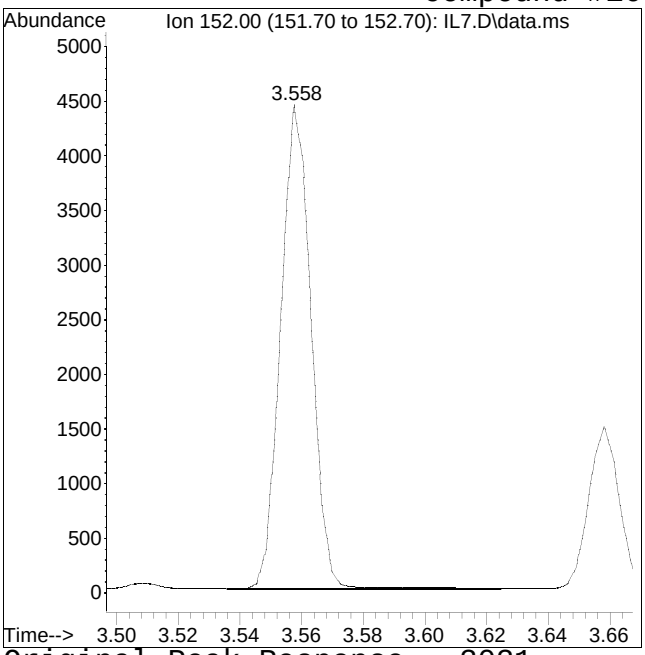


Original Peak Response = 336 Manual Peak Response = 321 M4
M4 = Poor automated baseline construction.

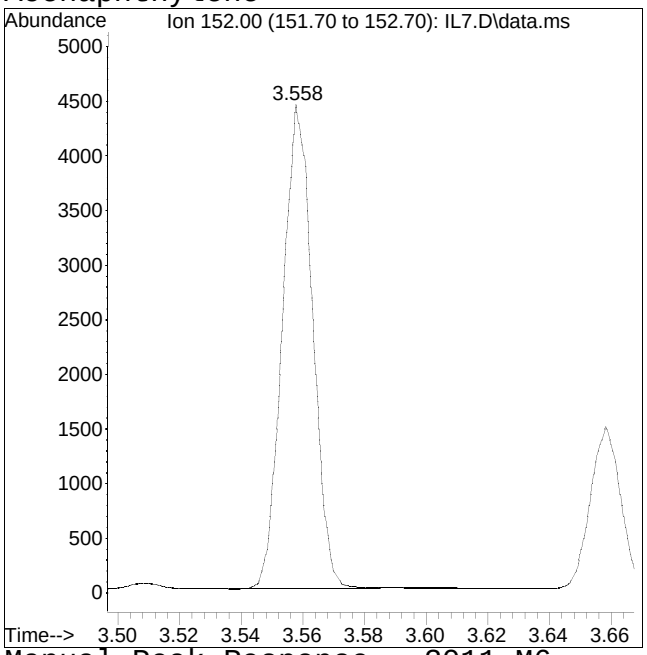
Manual Integration Report

Data Path : I:\8270SIM\SV128\231211LVIQMethod : SIM-LVI_231211_sv128.M
Data File : IL7.D Operator : SV128:dv
Date Inj'd : 12/11/2023 2:17 pm Instrument : SV128
Sample : IL7,32,, 1.0 Lot#10229 Quant Date : 12/15/2023 1:43 pm

Compound #16: Acenaphthylene



Original Peak Response = 3031



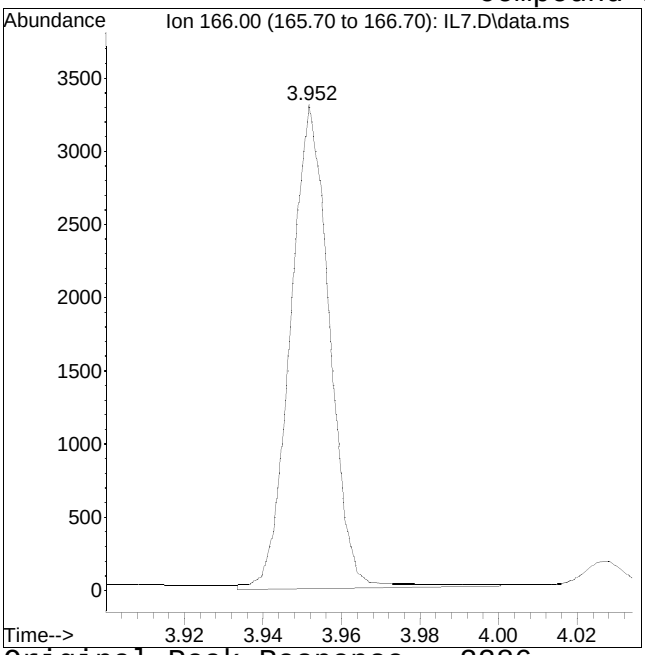
Manual Peak Response = 3011 M6

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

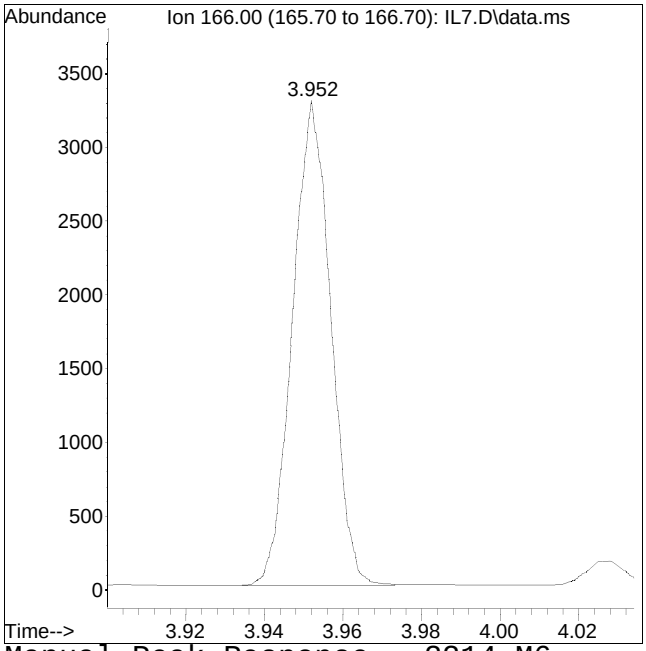
Manual Integration Report

Data Path : I:\8270SIM\SV128\231211LVIQMethod : SIM-LVI_231211_sv128.M
Data File : IL7.D Operator : SV128:dv
Date Inj'd : 12/11/2023 2:17 pm Instrument : SV128
Sample : IL7,32,, 1.0 Lot#10229 Quant Date : 12/15/2023 1:43 pm

Compound #20: Fluorene



Original Peak Response = 2286



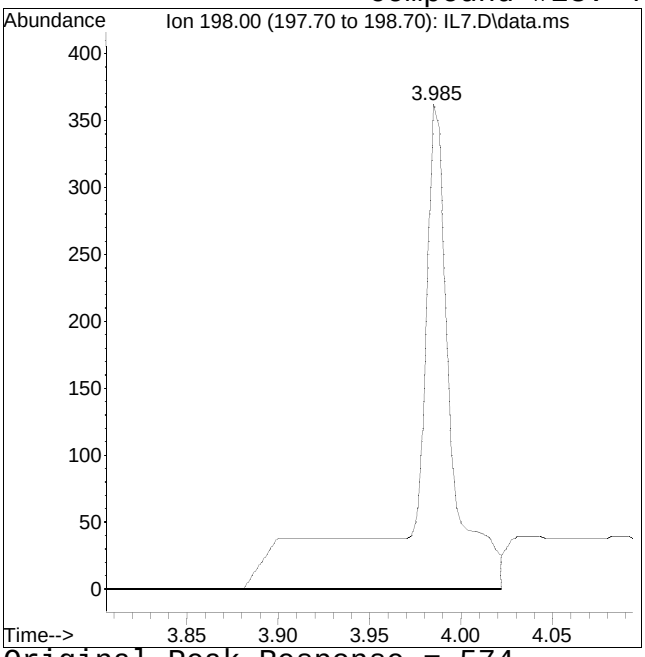
Manual Peak Response = 2214 M6

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

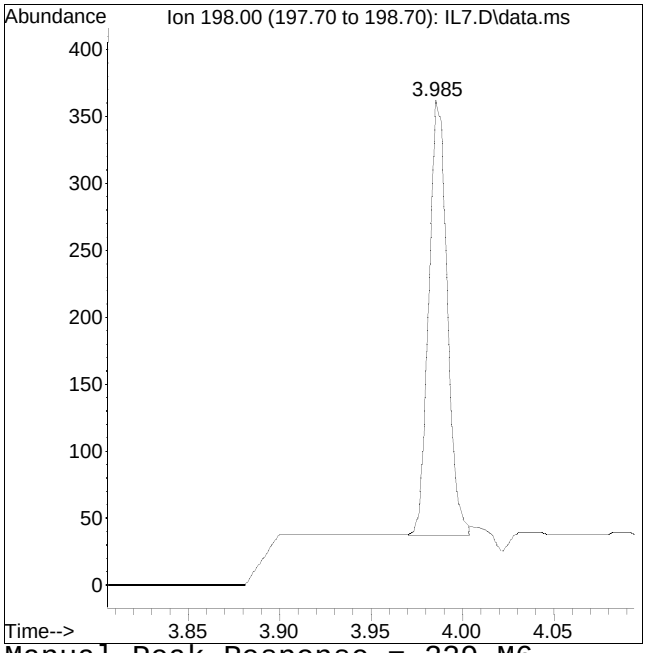
Manual Integration Report

Data Path : I:\8270SIM\SV128\231211LVIQMethod : SIM-LVI_231211_sv128.M
Data File : IL7.D Operator : SV128:dv
Date Inj'd : 12/11/2023 2:17 pm Instrument : SV128
Sample : IL7,32,, 1.0 Lot#10229 Quant Date : 12/15/2023 1:43 pm

Compound #23: 4,6-Dinitro-o-cresol



Original Peak Response = 574



Manual Peak Response = 229 M6

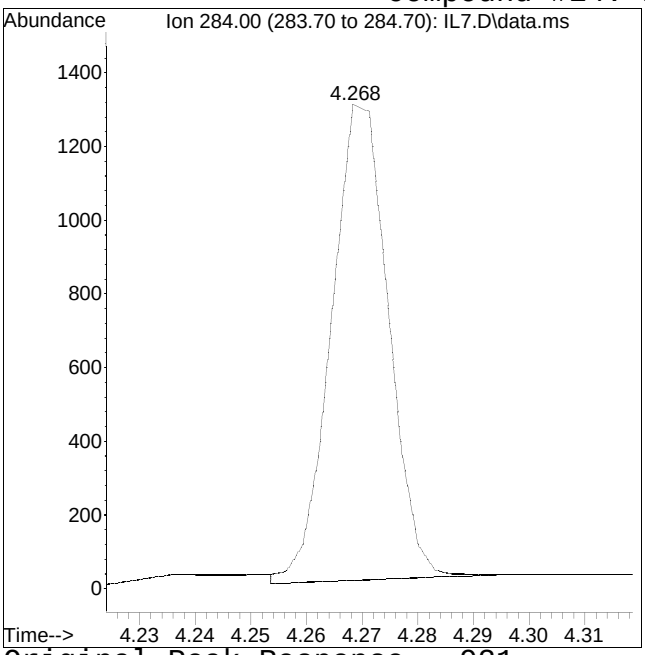
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

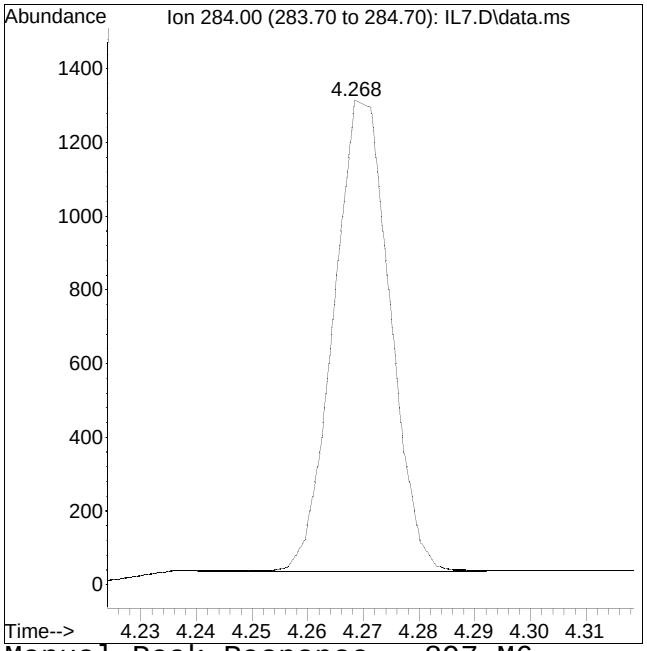
Data Path : I:\8270SIM\SV128\231211LVIQ
Data File : IL7.D
Date Inj'd : 12/11/2023 2:17 pm
Sample : IL7,32,, 1.0 Lot#10229

Method : SIM-LVI_231211_sv128.M
Operator : SV128:dv
Instrument : SV128
Quant Date : 12/15/2023 1:43 pm

Compound #24: Hexachlorobenzene



Original Peak Response = 921



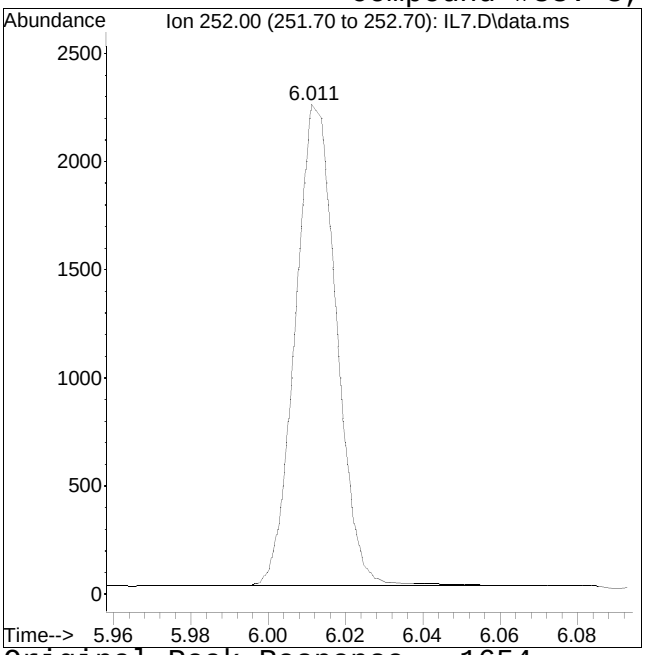
Manual Peak Response = 897 M6

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

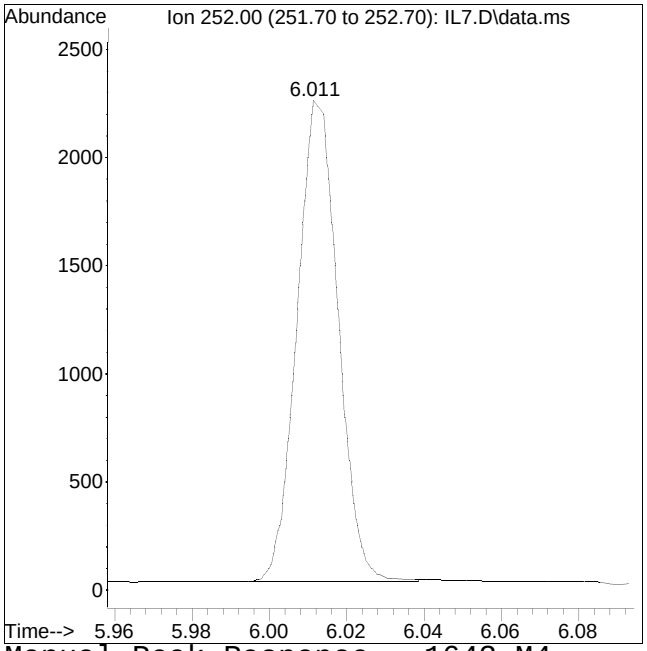
Manual Integration Report

Data Path : I:\8270SIM\SV128\231211LVIQMethod : SIM-LVI_231211_sv128.M
Data File : IL7.D Operator : SV128:dv
Date Inj'd : 12/11/2023 2:17 pm Instrument : SV128
Sample : IL7,32,, 1.0 Lot#10229 Quant Date : 12/15/2023 1:43 pm

Compound #33: 3,3'-Dichlorobenzidine



Original Peak Response = 1654



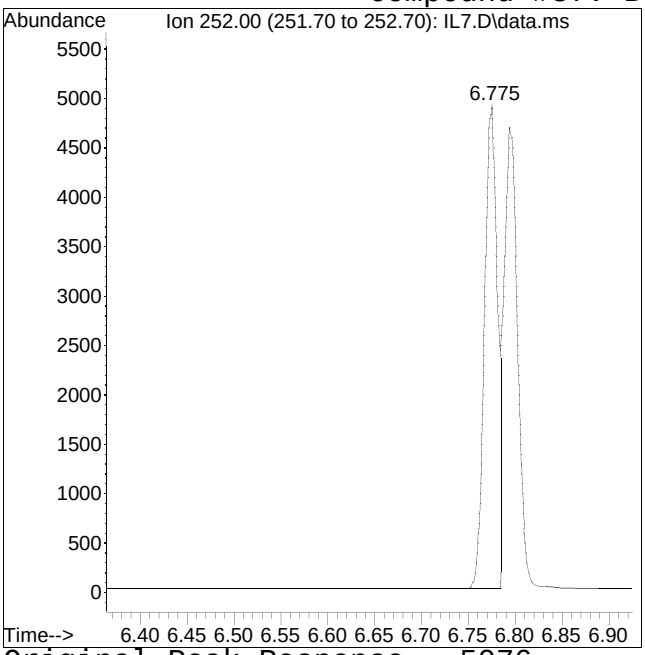
Manual Peak Response = 1643 M4

M4 = Poor automated baseline construction.

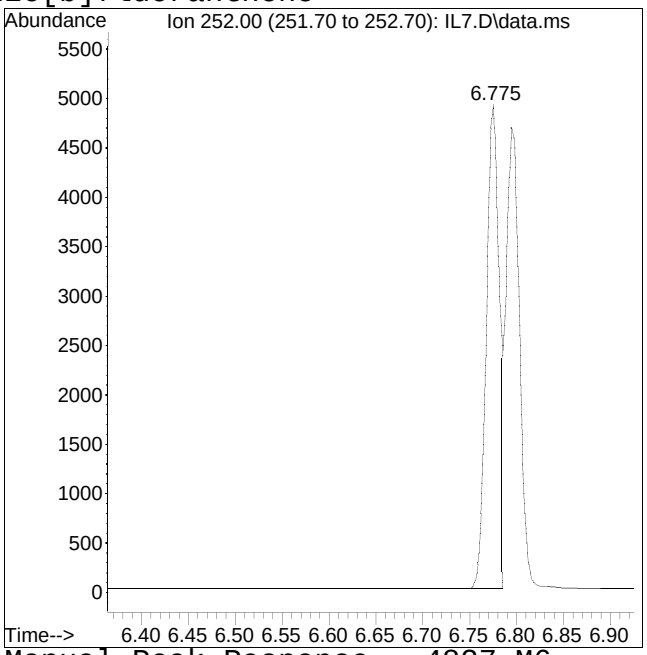
Manual Integration Report

Data Path : I:\8270SIM\SV128\231211LVIQMethod : SIM-LVI_231211_sv128.M
Data File : IL7.D Operator : SV128:dv
Date Inj'd : 12/11/2023 2:17 pm Instrument : SV128
Sample : IL7,32,, 1.0 Lot#10229 Quant Date : 12/15/2023 1:43 pm

Compound #37: Benzo[b]fluoranthene



Original Peak Response = 5076



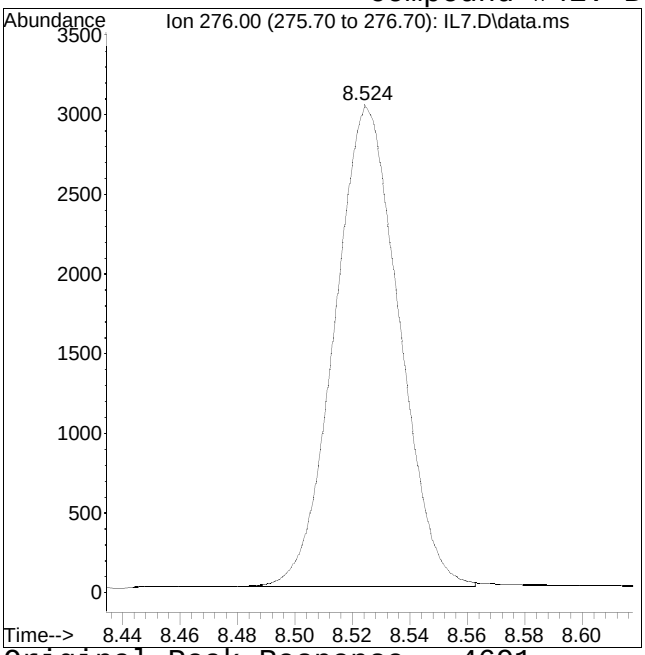
Manual Peak Response = 4827 M6

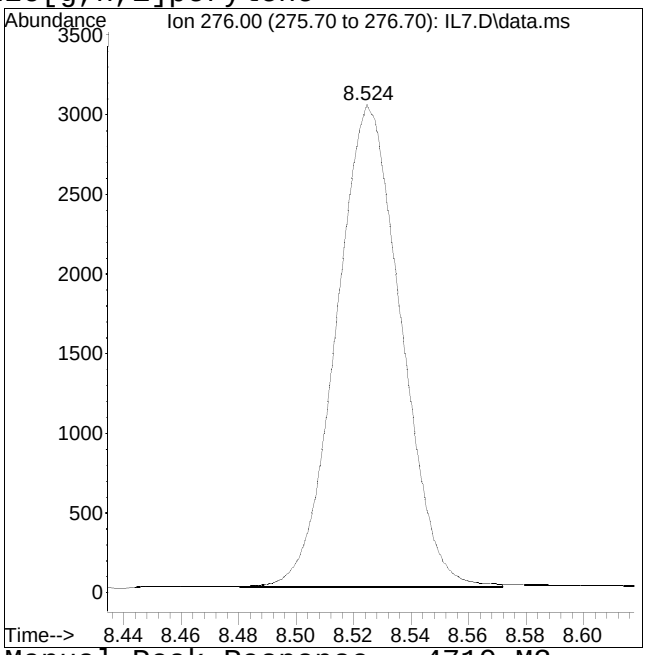
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

Data Path : I:\8270SIM\SV128\231211LVIQMethod : SIM-LVI_231211_sv128.M
Data File : IL7.D Operator : SV128:dv
Date Inj'd : 12/11/2023 2:17 pm Instrument : SV128
Sample : IL7,32,, 1.0 Lot#10229 Quant Date : 12/15/2023 1:43 pm

Compound #42: Benzo[g,h,i]perylene





Original Peak Response = 4691 Manual Peak Response = 4710 M3

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV128\231211LVIical\
Data File : IL6.D
Acq On : 11 Dec 2023 02:33 pm
Operator : SV128:dv
Sample : IL6,32,, 0.25 Lot#10230
Misc : WG1864557,,ical
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Dec 18 10:39:18 2023
Quant Method : I:\8270SIM\SV128\231211LVIical\SIM-LVI_231211_sv128.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Dec 15 13:43:04 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\SV128\231211LVIical\IL7.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.014	152	3344	4000.000	ng/ml	0.00
Standard Area 1 = 2982			Recovery = 112.14%			
8) Naphthalene-d8	2.670	136	11366	4000.000	ng/ml	0.00
Standard Area 1 = 10566			Recovery = 107.57%			
17) Acenaphthene-d10	3.642	164	5935	4000.000	ng/ml	0.00
Standard Area 1 = 6070			Recovery = 97.78%			
22) Phenanthrene-d10	4.483	188	11352	4000.000	ng/ml	0.00
Standard Area 1 = 13526			Recovery = 83.93%			
31) Chrysene-d12	6.018	240	8420	4000.000	ng/ml	0.00
Standard Area 1 = 12766			Recovery = 65.96%			
36) Perylene-d12	7.103	264	9369	4000.000	ng/ml	0.00
Standard Area 1 = 15405			Recovery = 60.82%			
System Monitoring Compounds						
2) 2-Fluorophenol	1.424	112	215	255.322	ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 5.11%#			
3) Phenol-d6	1.834	99	245M6	248.954	ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 4.98%#			
7) Nitrobenzene-d5	2.295	82	193	242.673	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 9.71%#			
13) 2-Fluorobiphenyl	3.269	172	585	239.530	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 9.58%#			
21) 2,4,6-Tribromophenol	4.091	330	65	219.164	ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 4.38%#			
30) 4-Terphenyl-d14	5.419	244	515	217.756	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 8.71%#			
Target Compounds						Qvalue
4) Bis(2-chloroethyl)ether	1.887	93	209M1	245.492	ng/ml	
5) n-nitrosodi-n-propylamine	2.221	70	141	228.186	ng/ml	98
6) Hexachloroethane	2.270	117	102	255.358	ng/ml	99
9) Naphthalene	2.683	128	740	253.881	ng/ml#	100
10) Hexachlorobutadiene	2.759	225	167	250.121	ng/ml	100
11) 2-Methylnaphthalene	3.062	142	465	249.732	ng/ml	100
12) 1-Methylnaphthalene	3.116	142	427	243.515	ng/ml	98
14) 2-Chloronaphthalene	3.330	162	496	244.688	ng/ml	100
15) 2,6-Dinitrotoluene	3.529	165	65M4	196.996	ng/ml	
16) Acenaphthylene	3.559	152	707	233.904	ng/ml	99

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV128\231211LVIical\
Data File : IL6.D
Acq On : 11 Dec 2023 02:33 pm
Operator : SV128:dv
Sample : IL6,32,, 0.25 Lot#10230
Misc : WG1864557,,ical
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Dec 18 10:39:18 2023
Quant Method : I:\8270SIM\SV128\231211LVIical\SIM-LVI_231211_sv128.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Dec 15 13:43:04 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\SV128\231211LVIical\IL7.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
18) Acenaphthene	3.660	153	498M6	247.610	ng/ml	
19) 2,4-Dinitrotoluene	3.758	165	79	200.048	ng/ml	93
20) Fluorene	3.954	166	492M6	242.728	ng/ml	
23) 4,6-Dinitro-o-cresol	3.987	198	40M6	200.689	ng/ml	
24) Hexachlorobenzene	4.270	284	190M6	253.732	ng/ml	
25) Pentachlorophenol	4.385	266	65	208.935	ng/ml	95
26) Phenanthrene	4.498	178	754	245.626	ng/ml	97
27) Anthracene	4.527	178	720	242.741	ng/ml	100
28) Fluoranthene	5.183	202	817	239.675	ng/ml	98
29) Pyrene	5.311	202	794	227.549	ng/ml	99
32) Benzo[a]anthracene	6.013	228	739	211.612	ng/ml	98
33) 3,3'-Dichlorobenzidine	6.010	252	275	249.939	ng/ml#	95
34) Chrysene	6.034	228	731	251.833	ng/ml	98
35) Bis(2-ethylhexyl)phtha...	6.070	149	271	191.760	ng/ml	99
37) Benzo[b]fluoranthene	6.773	252	707M6	242.008	ng/ml	
38) Benzo[k]fluoranthene	6.795	252	666	246.664	ng/ml	100
39) Benzo[a]pyrene	7.046	252	628	245.799	ng/ml	95
40) Indeno[1,2,3-cd]pyrene	8.209	276	641	250.906	ng/ml	94
41) Dibenzo[a,h]anthracene	8.251	278	626	252.017	ng/ml	99
42) Benzo[g,h,i]perylene	8.519	276	690	257.139	ng/ml	99

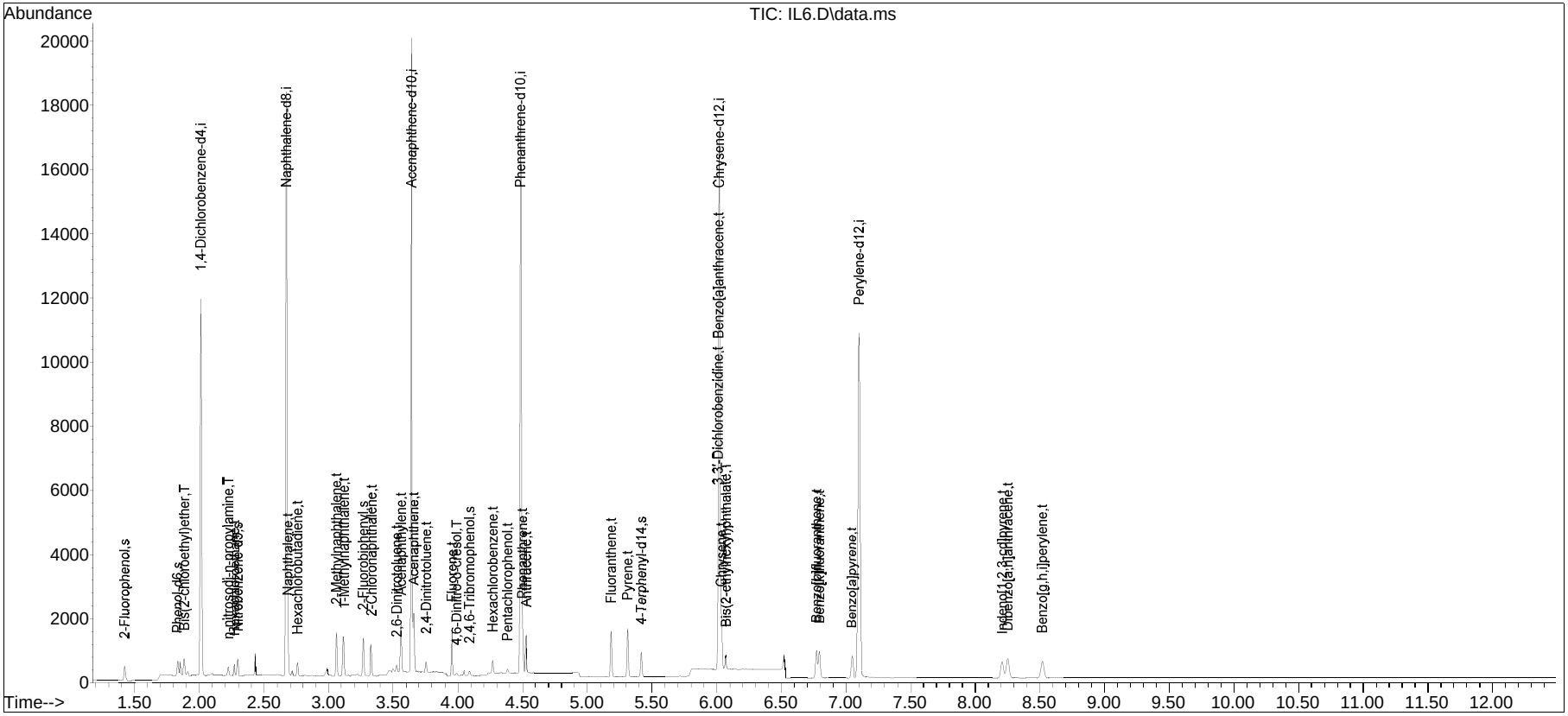
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV128\231211LVIical\
Data File : IL6.D
Acq On : 11 Dec 2023 02:33 pm
Operator : SV128:dv
Sample : IL6,32,, 0.25 Lot#10230
Misc : WG1864557,,ical
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Dec 18 10:39:18 2023
Quant Method : I:\8270SIM\SV128\231211LVIical\SIM-LVI_231211_sv128.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Dec 15 13:43:04 2023
Response via : Initial Calibration

Sub List : Default - All compounds listedical\IL7.D•

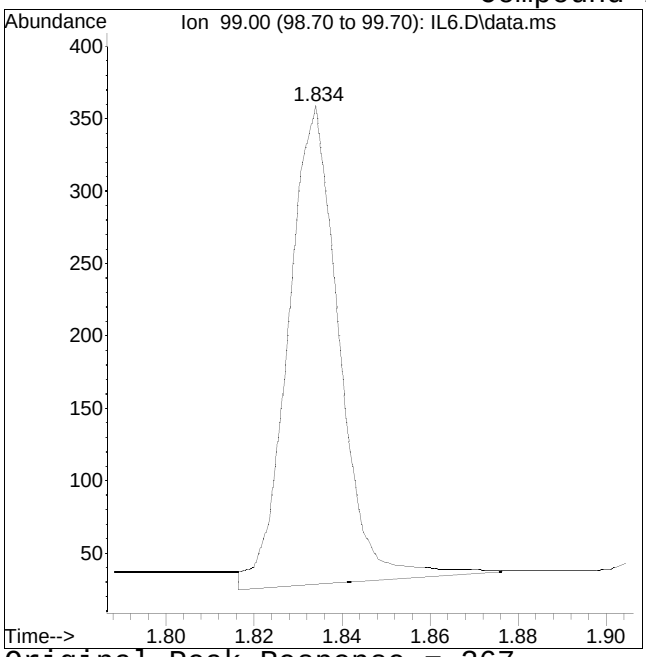


Manual Integration Report

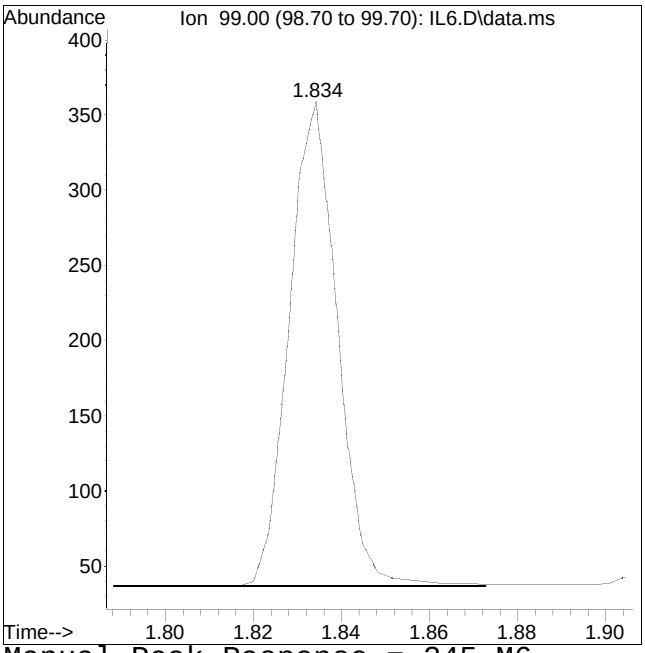
Data Path : I:\8270SIM\SV128\231211LVIQ
Data File : IL6.D
Date Inj'd : 12/11/2023 2:33 pm
Sample : IL6,32,, 0.25 Lot#10230

Method : SIM-LVI_231211_sv128.M
Operator : SV128:dv
Instrument : SV128
Quant Date : 12/15/2023 1:43 pm

Compound #3: Phenol-d6



Original Peak Response = 267



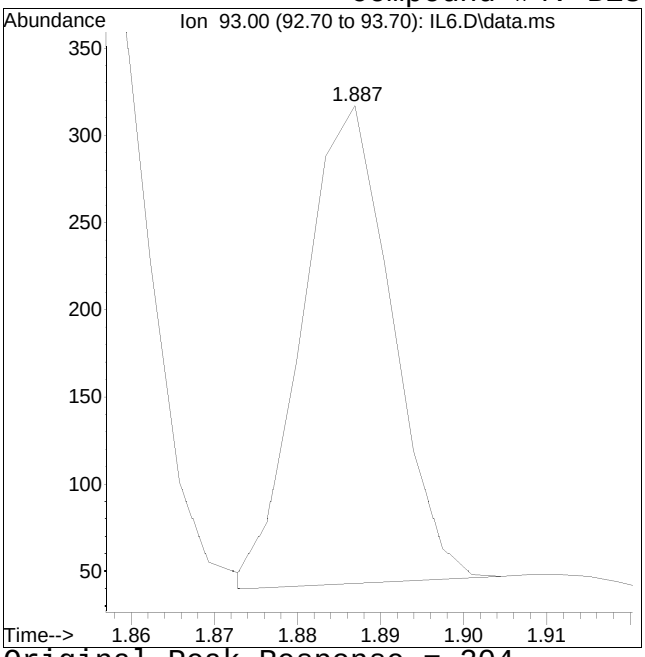
Manual Peak Response = 245 M6

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

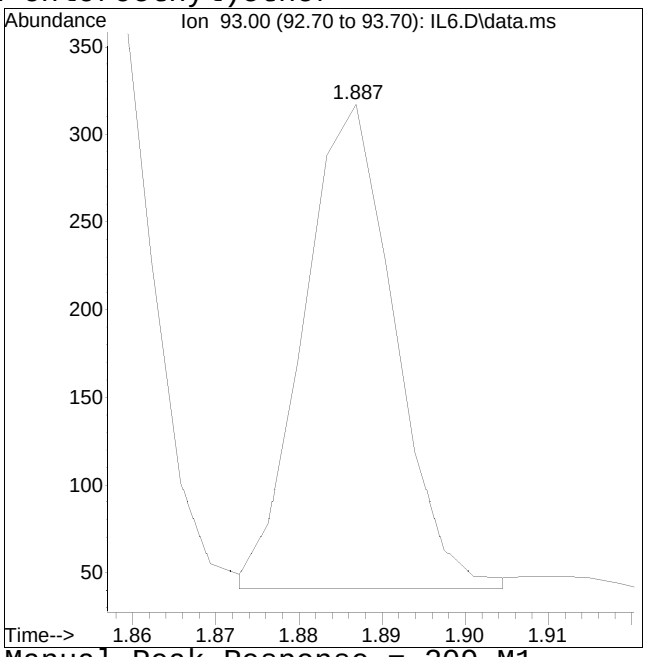
Manual Integration Report

Data Path : I:\8270SIM\SV128\231211LVIQMethod : SIM-LVI_231211_sv128.M
Data File : IL6.D Operator : SV128:dv
Date Inj'd : 12/11/2023 2:33 pm Instrument : SV128
Sample : IL6,32,, 0.25 Lot#10230 Quant Date : 12/15/2023 1:43 pm

Compound #4: Bis(2-chloroethyl)ether



Original Peak Response = 204



Manual Peak Response = 209 M1

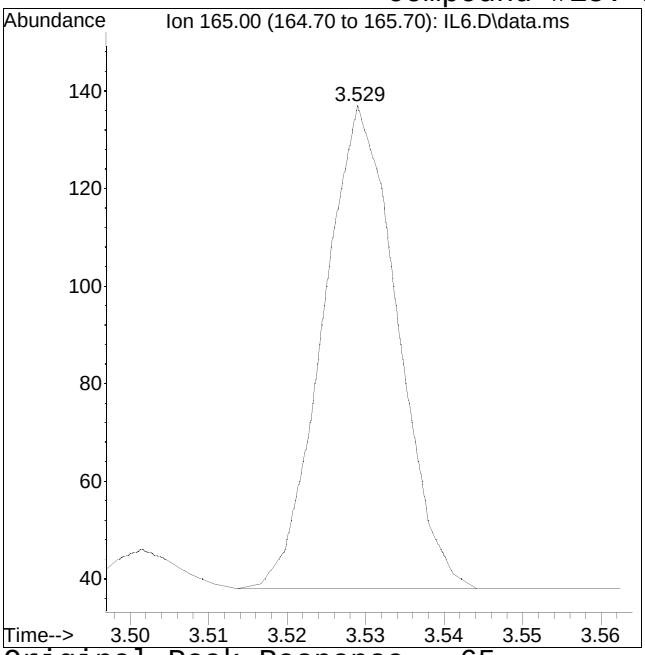
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Manual Integration Report

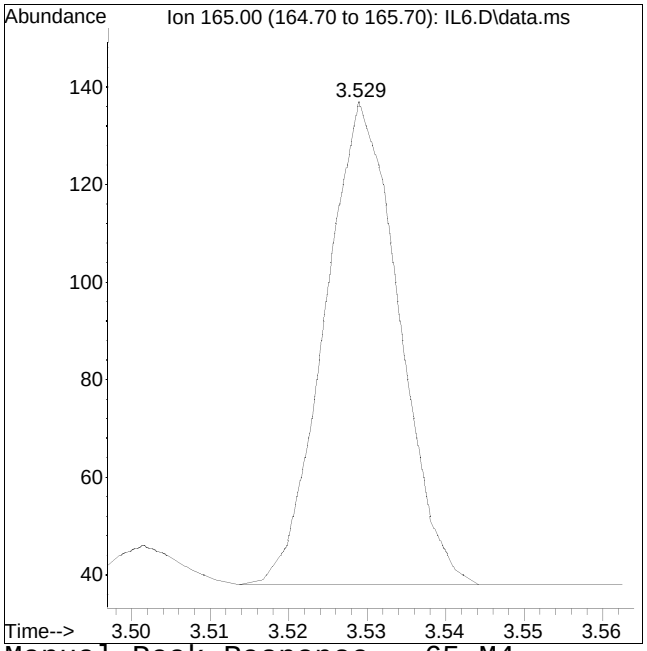
Data Path : I:\8270SIM\SV128\231211LVIQ
Data File : IL6.D
Date Inj'd : 12/11/2023 2:33 pm
Sample : IL6,32,, 0.25 Lot#10230

Method : SIM-LVI_231211_sv128.M
Operator : SV128:dv
Instrument : SV128
Quant Date : 12/15/2023 1:43 pm

Compound #15: 2,6-Dinitrotoluene



Original Peak Response = 65



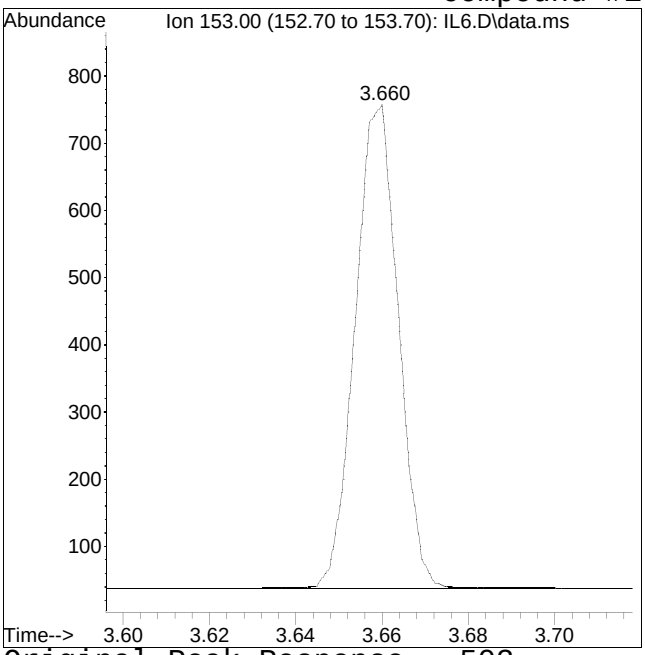
Manual Peak Response = 65 M4

M4 = Poor automated baseline construction.

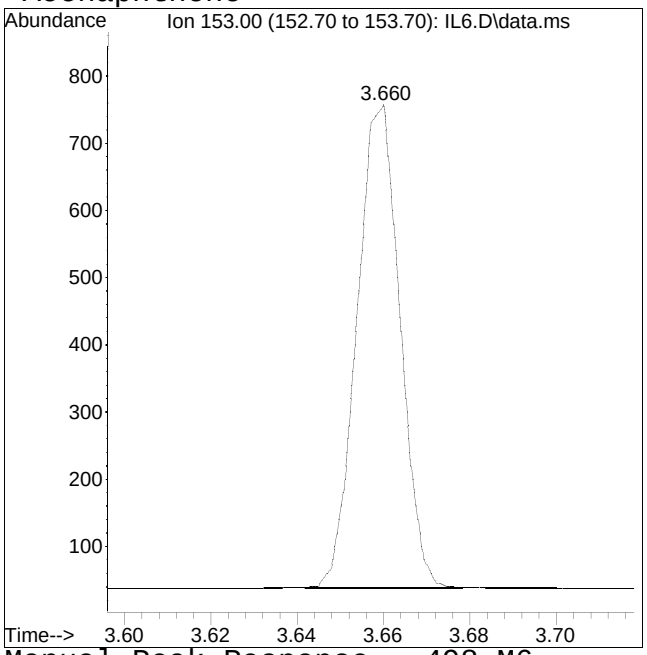
Manual Integration Report

Data Path : I:\8270SIM\SV128\231211LVIQMethod : SIM-LVI_231211_sv128.M
Data File : IL6.D Operator : SV128:dv
Date Inj'd : 12/11/2023 2:33 pm Instrument : SV128
Sample : IL6,32,, 0.25 Lot#10230 Quant Date : 12/15/2023 1:43 pm

Compound #18: Acenaphthene



Original Peak Response = 503



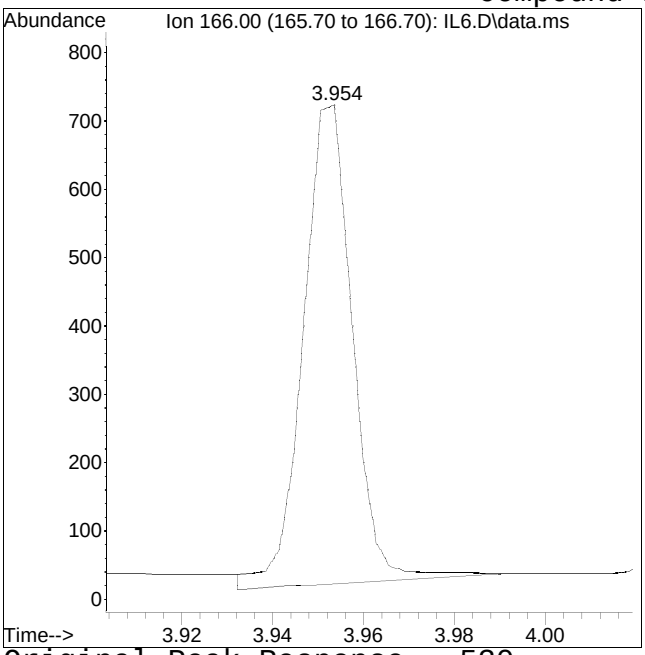
Manual Peak Response = 498 M6

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

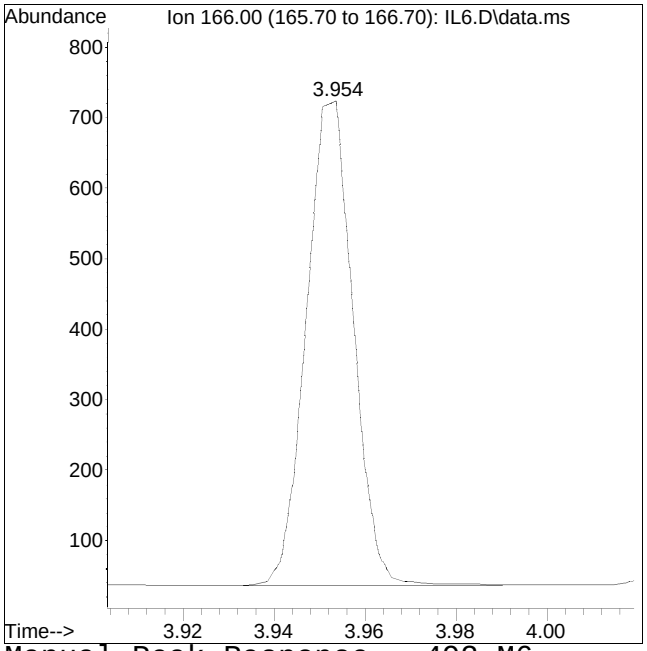
Manual Integration Report

Data Path : I:\8270SIM\SV128\231211LVIQMethod : SIM-LVI_231211_sv128.M
Data File : IL6.D Operator : SV128:dv
Date Inj'd : 12/11/2023 2:33 pm Instrument : SV128
Sample : IL6,32,, 0.25 Lot#10230 Quant Date : 12/15/2023 1:43 pm

Compound #20: Fluorene



Original Peak Response = 530



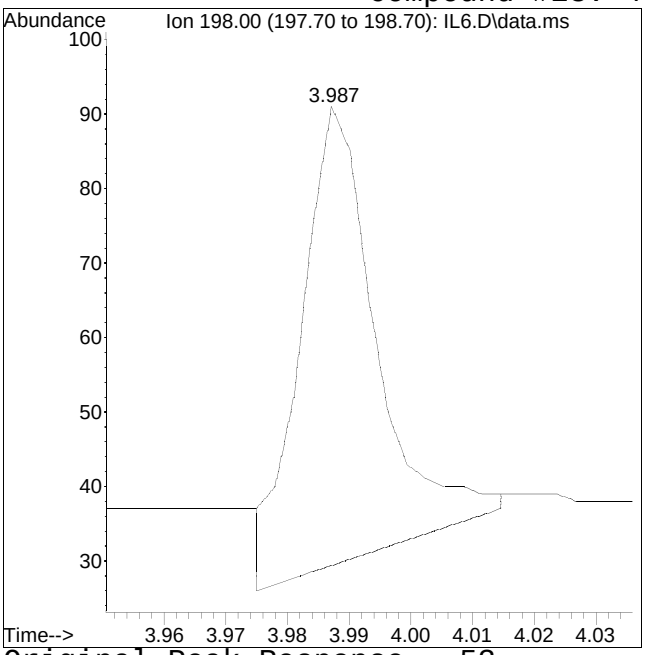
Manual Peak Response = 492 M6

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

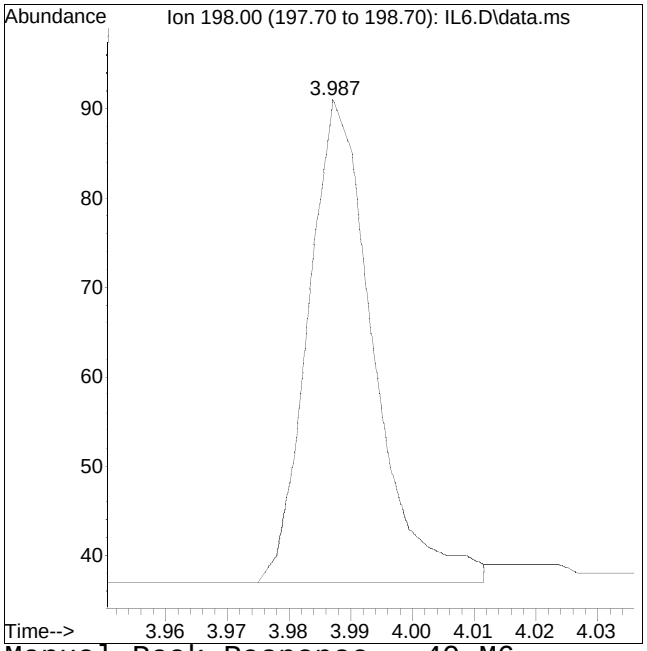
Manual Integration Report

Data Path : I:\8270SIM\SV128\231211LVIQMethod : SIM-LVI_231211_sv128.M
Data File : IL6.D Operator : SV128:dv
Date Inj'd : 12/11/2023 2:33 pm Instrument : SV128
Sample : IL6,32,, 0.25 Lot#10230 Quant Date : 12/15/2023 1:43 pm

Compound #23: 4,6-Dinitro-o-cresol



Original Peak Response = 53



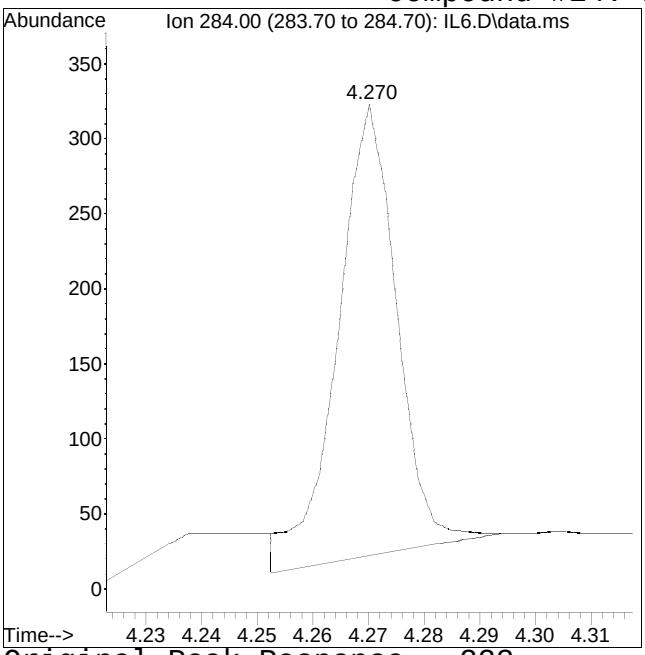
Manual Peak Response = 40 M6

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

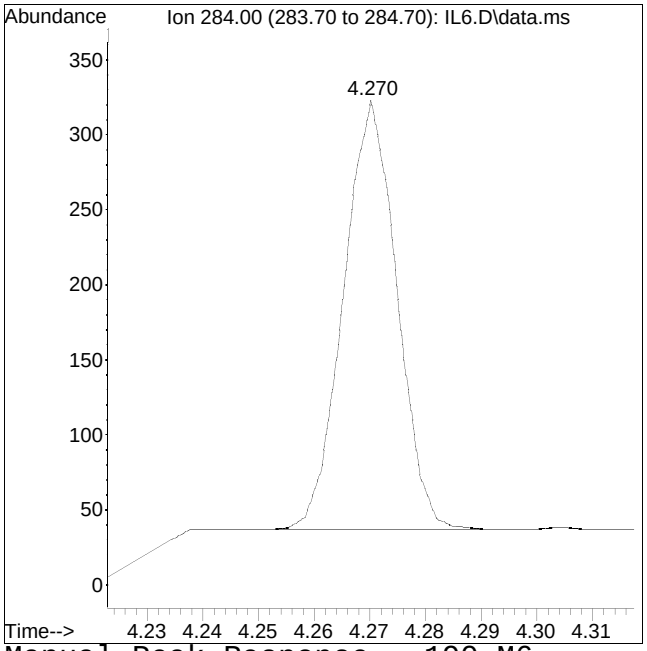
Manual Integration Report

Data Path : I:\8270SIM\SV128\231211LVIQMethod : SIM-LVI_231211_sv128.M
Data File : IL6.D Operator : SV128:dv
Date Inj'd : 12/11/2023 2:33 pm Instrument : SV128
Sample : IL6,32,, 0.25 Lot#10230 Quant Date : 12/15/2023 1:43 pm

Compound #24: Hexachlorobenzene



Original Peak Response = 223



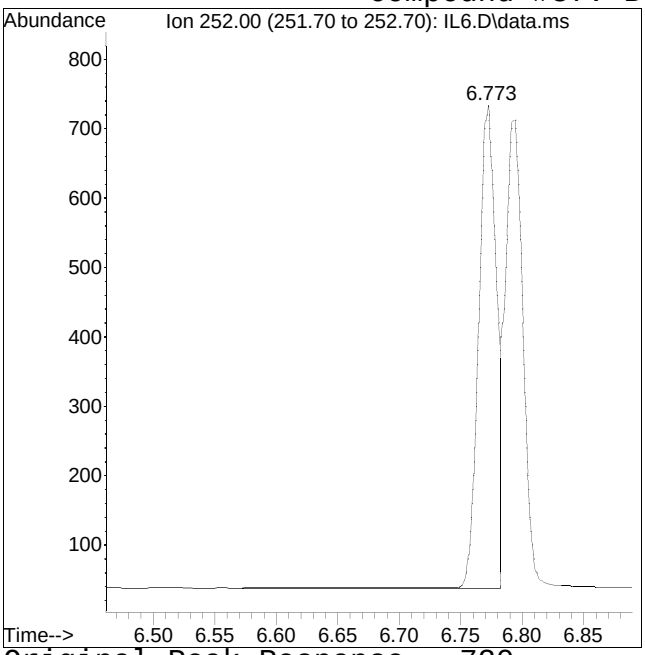
Manual Peak Response = 190 M6

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

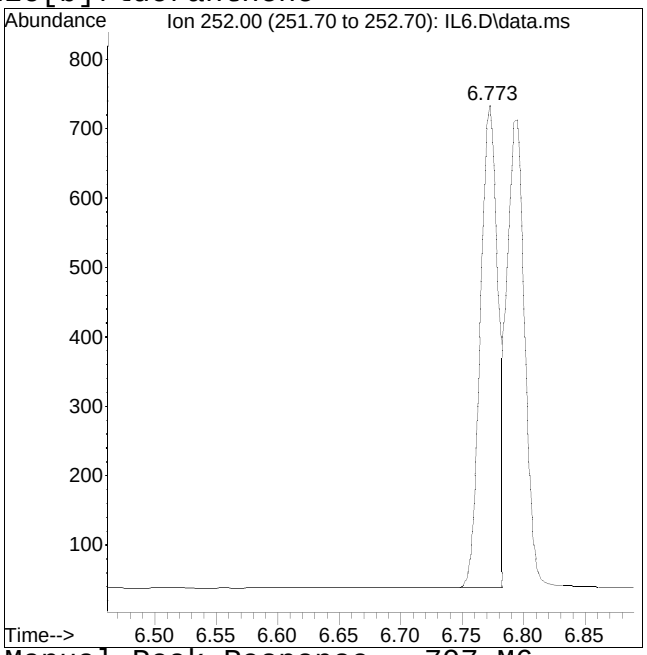
Manual Integration Report

Data Path : I:\8270SIM\SV128\231211LVIQMethod : SIM-LVI_231211_sv128.M
Data File : IL6.D Operator : SV128:dv
Date Inj'd : 12/11/2023 2:33 pm Instrument : SV128
Sample : IL6,32,, 0.25 Lot#10230 Quant Date : 12/15/2023 1:43 pm

Compound #37: Benzo[b]fluoranthene



Original Peak Response = 720



Manual Peak Response = 707 M6

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV128\231211LVIical\
Data File : IL5.D
Acq On : 11 Dec 2023 02:50 pm
Operator : SV128:dv
Sample : IL5,32,, 0.1 Lot#10231
Misc : WG1864557,,ical
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Dec 18 10:43:34 2023
Quant Method : I:\8270SIM\SV128\231211LVIical\SIM-LVI_231211_sv128.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Dec 15 14:30:01 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\SV128\231211LVIical\IL7.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.016	152	3863	4000.000	ng/ml	0.00
Standard Area 1 = 2982			Recovery = 129.54%			
8) Naphthalene-d8	2.673	136	13403	4000.000	ng/ml	0.00
Standard Area 1 = 10566			Recovery = 126.85%			
17) Acenaphthene-d10	3.641	164	7249	4000.000	ng/ml	0.00
Standard Area 1 = 6070			Recovery = 119.42%			
22) Phenanthrene-d10	4.482	188	14396	4000.000	ng/ml	0.00
Standard Area 1 = 13526			Recovery = 106.43%			
31) Chrysene-d12	6.018	240	10750	4000.000	ng/ml	0.00
Standard Area 1 = 12766			Recovery = 84.21%			
36) Perylene-d12	7.100	264	11570	4000.000	ng/ml	0.00
Standard Area 1 = 15405			Recovery = 75.11%			
System Monitoring Compounds						
2) 2-Fluorophenol	1.427	112	95	97.660	ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 1.95%#			
3) Phenol-d6	1.836	99	111M6	97.638	ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 1.95%#			
7) Nitrobenzene-d5	2.297	82	90	97.960	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 3.92%#			
13) 2-Fluorobiphenyl	3.271	172	282	99.212	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 3.97%#			
21) 2,4,6-Tribromophenol	4.090	330	31	85.578	ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 1.71%#			
30) 4-Terphenyl-d14	5.418	244	268	89.357	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 3.57%#			
Target Compounds						Qvalue
4) Bis(2-chloroethyl)ether	1.889	93	99M6	101.961	ng/ml	
5) n-nitrosodi-n-propylamine	2.224	70	64M6	90.419	ng/ml	
6) Hexachloroethane	2.270	117	48	104.042	ng/ml	98
9) Naphthalene	2.682	128	346	100.666	ng/ml#	99
10) Hexachlorobutadiene	2.758	225	79	100.339	ng/ml	98
11) 2-Methylnaphthalene	3.061	142	221	100.652	ng/ml	99
12) 1-Methylnaphthalene	3.116	142	204	98.659	ng/ml	99
14) 2-Chloronaphthalene	3.329	162	239	99.986	ng/ml	99
15) 2,6-Dinitrotoluene	3.528	165	30M7	98.152	ng/ml	
16) Acenaphthylene	3.559	152	345M6	97.432	ng/ml	

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV128\231211LVIical\
Data File : IL5.D
Acq On : 11 Dec 2023 02:50 pm
Operator : SV128:dv
Sample : IL5,32,, 0.1 Lot#10231
Misc : WG1864557,,ical
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Dec 18 10:43:34 2023
Quant Method : I:\8270SIM\SV128\231211LVIical\SIM-LVI_231211_sv128.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Dec 15 14:30:01 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\SV128\231211LVIical\IL7.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
18) Acenaphthene	3.660	153	246	100.389	ng/ml	98
19) 2,4-Dinitrotoluene	3.757	165	37	98.564	ng/ml	89
20) Fluorene	3.953	166	245M6	99.066	ng/ml	
23) 4,6-Dinitro-o-cresol	3.987	198	18M4	122.436	ng/ml	
24) Hexachlorobenzene	4.270	284	96M6	100.216	ng/ml	
25) Pentachlorophenol	4.385	266	27	69.591	ng/ml	99
26) Phenanthrene	4.497	178	386	99.156	ng/ml	96
27) Anthracene	4.527	178	365	97.036	ng/ml	98
28) Fluoranthene	5.183	202	414M4	96.800	ng/ml	
29) Pyrene	5.311	202	408	92.203	ng/ml	98
32) Benzo[a]anthracene	6.012	228	395M4	90.967	ng/ml	
33) 3,3'-Dichlorobenzidine	6.010	252	124M4	98.033	ng/ml	
34) Chrysene	6.034	228	375	101.185	ng/ml	98
35) Bis(2-ethylhexyl)phtha...	6.069	149	135	120.644	ng/ml	99
37) Benzo[b]fluoranthene	6.770	252	367M7	102.428	ng/ml	
38) Benzo[k]fluoranthene	6.792	252	313	93.872	ng/ml	100
39) Benzo[a]pyrene	7.046	252	304	96.351	ng/ml	100
40) Indeno[1,2,3-cd]pyrene	8.209	276	306M6	96.992	ng/ml	
41) Dibenzo[a,h]anthracene	8.250	278	288M6	93.887	ng/ml	
42) Benzo[g,h,i]perylene	8.519	276	323	98.498	ng/ml	100

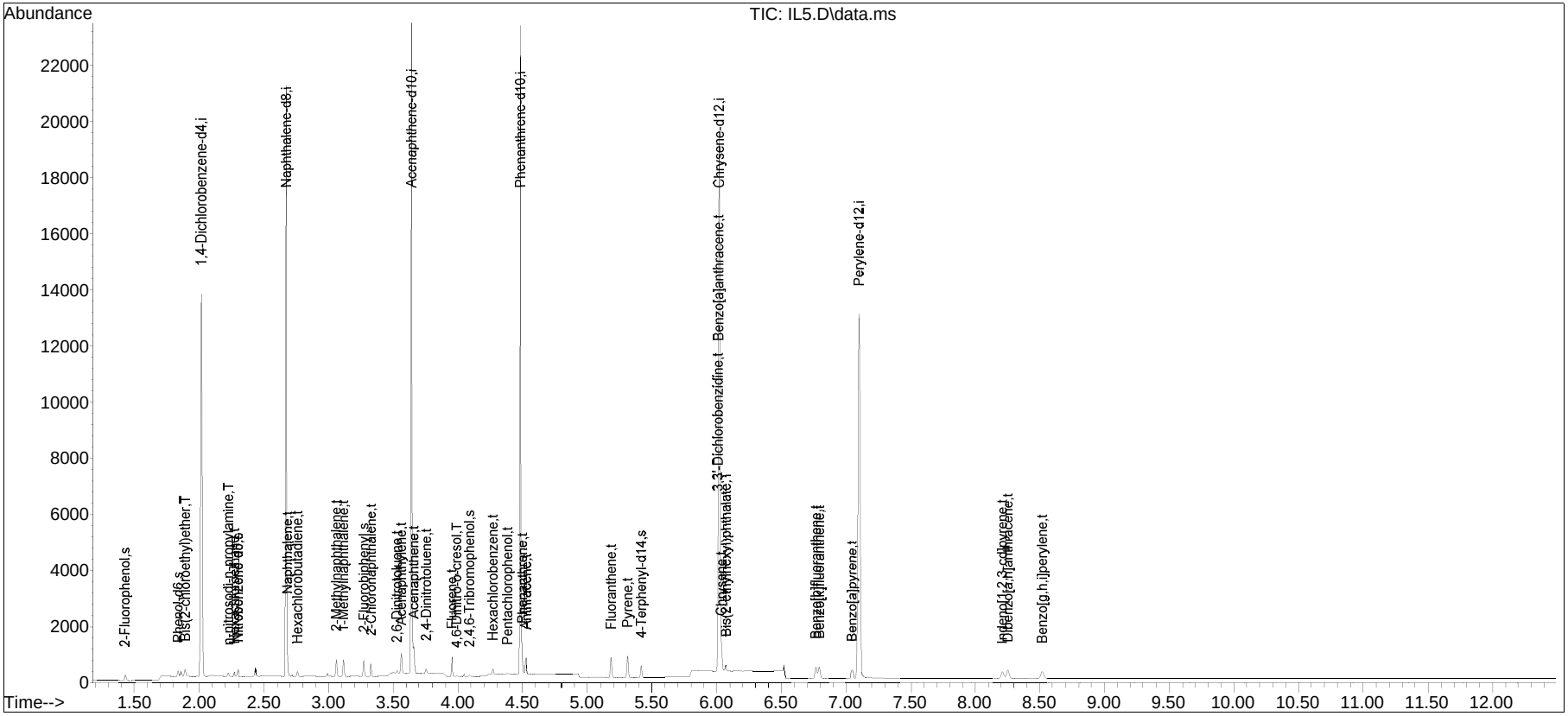
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV128\231211LVIical\
Data File : IL5.D
Acq On : 11 Dec 2023 02:50 pm
Operator : SV128:dv
Sample : IL5,32,, 0.1 Lot#10231
Misc : WG1864557,,ical
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Dec 18 10:43:34 2023
Quant Method : I:\8270SIM\SV128\231211LVIical\SIM-LVI_231211_sv128.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Dec 15 14:30:01 2023
Response via : Initial Calibration

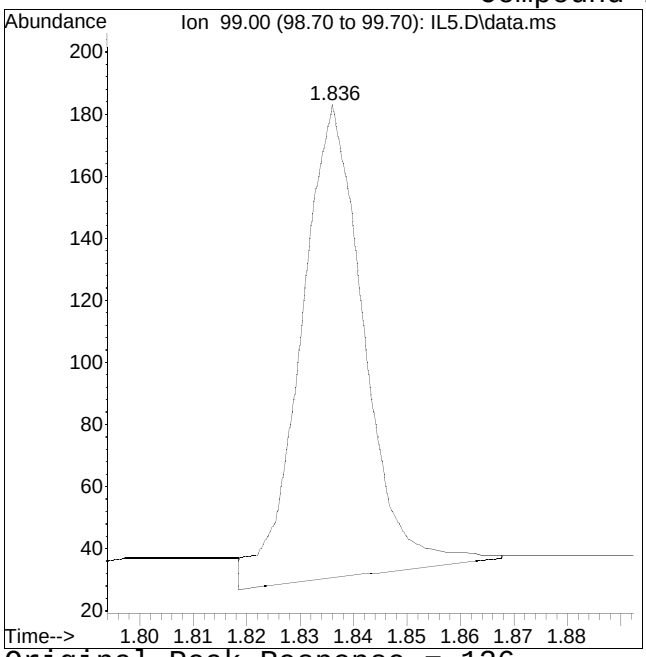
Sub List : Default - All compounds listedical\IL7.D•



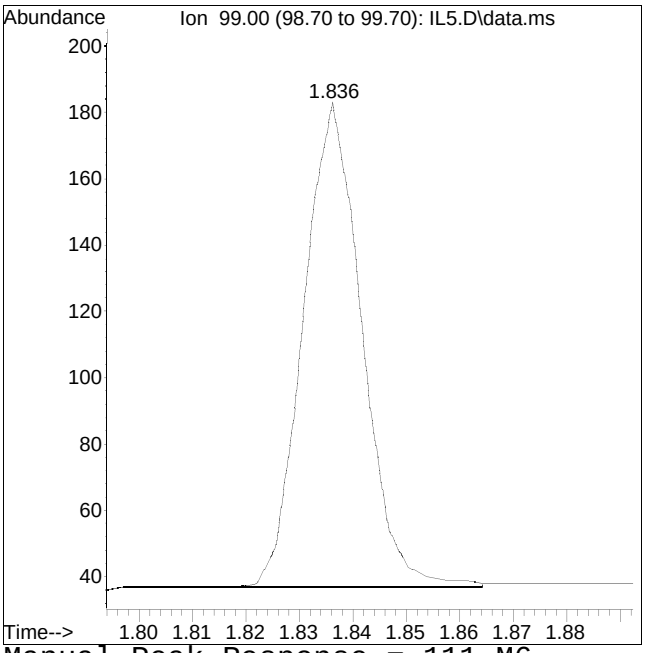
Manual Integration Report

Data Path : I:\8270SIM\SV128\231211LVIQMethod : SIM-LVI_231211_sv128.M
Data File : IL5.D Operator : SV128:dv
Date Inj'd : 12/11/2023 2:50 pm Instrument : SV128
Sample : IL5,32,, 0.1 Lot#10231 Quant Date : 12/15/2023 2:30 pm

Compound #3: Phenol-d6



Original Peak Response = 126



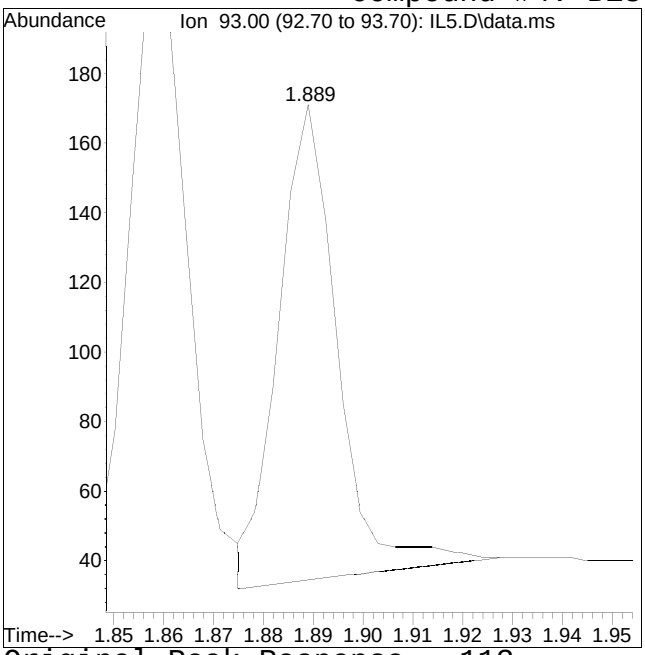
Manual Peak Response = 111 M6

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

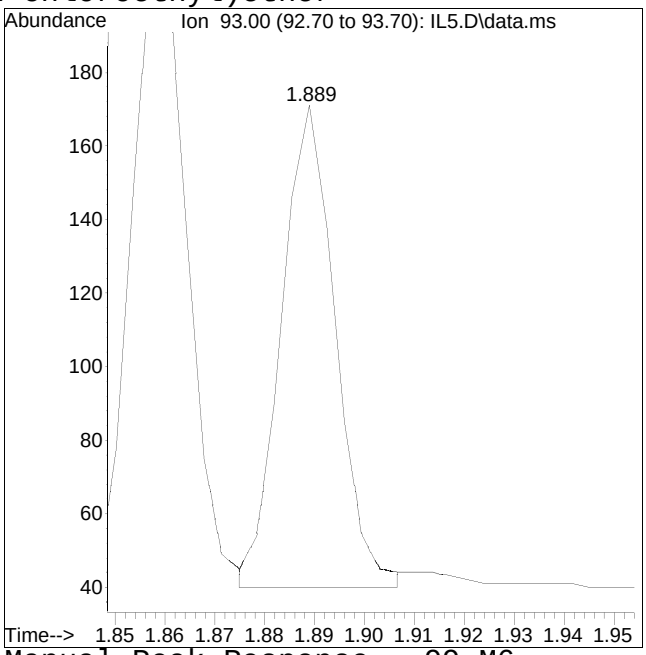
Manual Integration Report

Data Path : I:\8270SIM\SV128\231211LVIQMethod : SIM-LVI_231211_sv128.M
Data File : IL5.D Operator : SV128:dv
Date Inj'd : 12/11/2023 2:50 pm Instrument : SV128
Sample : IL5,32,, 0.1 Lot#10231 Quant Date : 12/15/2023 2:30 pm

Compound #4: Bis(2-chloroethyl)ether



Original Peak Response = 113



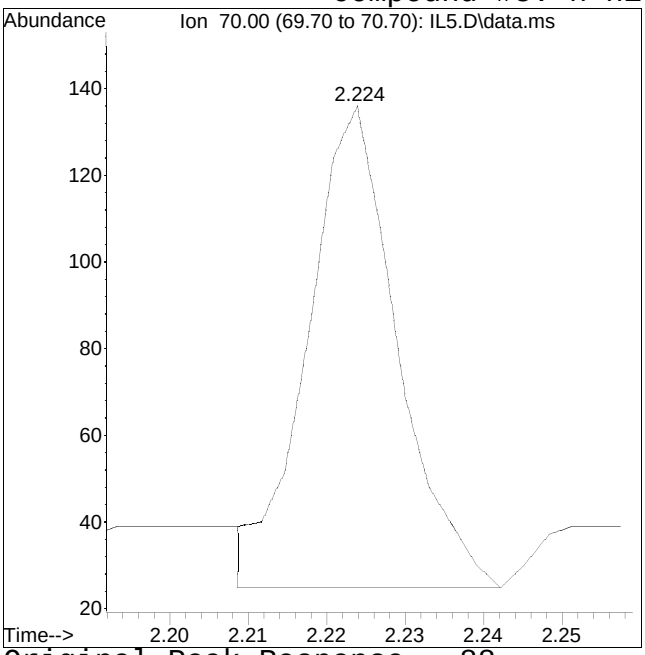
Manual Peak Response = 99 M6

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

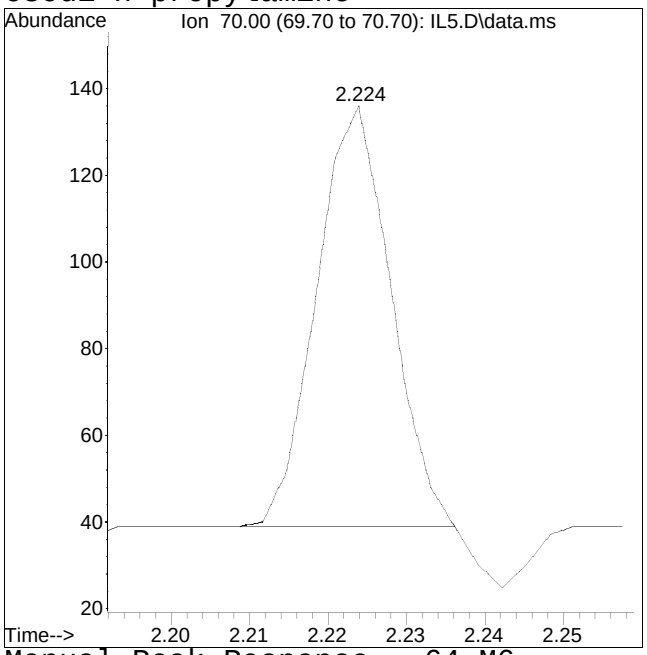
Manual Integration Report

Data Path : I:\8270SIM\SV128\231211LVIQMethod : SIM-LVI_231211_sv128.M
Data File : IL5.D Operator : SV128:dv
Date Inj'd : 12/11/2023 2:50 pm Instrument : SV128
Sample : IL5,32,, 0.1 Lot#10231 Quant Date : 12/15/2023 2:30 pm

Compound #5: n-nitrosodi-n-propylamine



Original Peak Response = 88



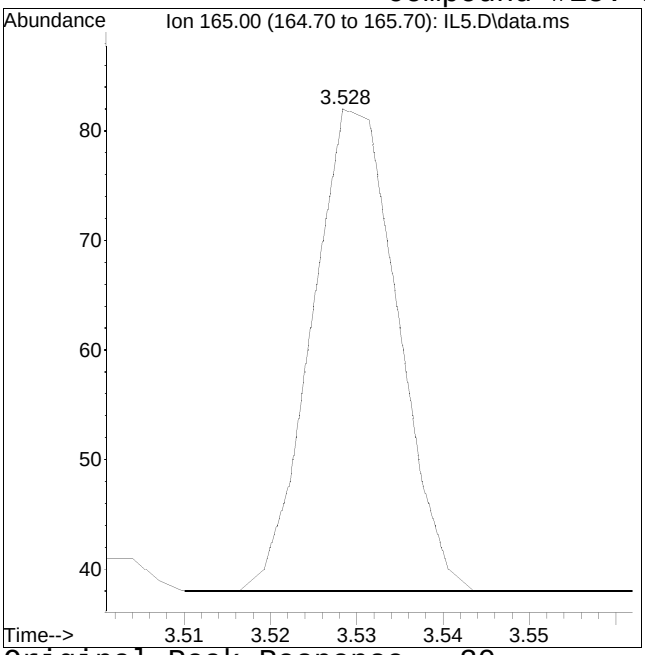
Manual Peak Response = 64 M6

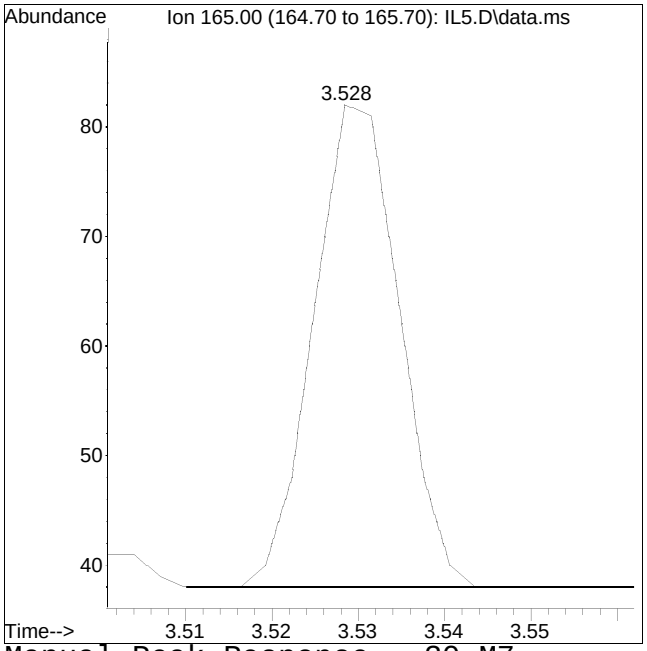
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

Data Path : I:\8270SIM\SV128\231211LVIQMethod : SIM-LVI_231211_sv128.M
Data File : IL5.D Operator : SV128:dv
Date Inj'd : 12/11/2023 2:50 pm Instrument : SV128
Sample : IL5,32,, 0.1 Lot#10231 Quant Date : 12/15/2023 2:30 pm

Compound #15: 2,6-Dinitrotoluene



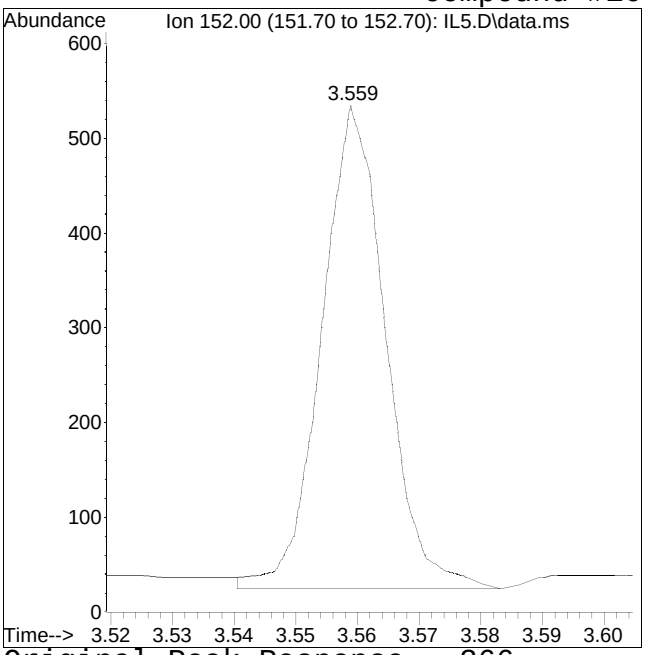


Original Peak Response = 30 Manual Peak Response = 30 M7
M7 = A qualifier ion was manually integrated (only for GC/MS data).

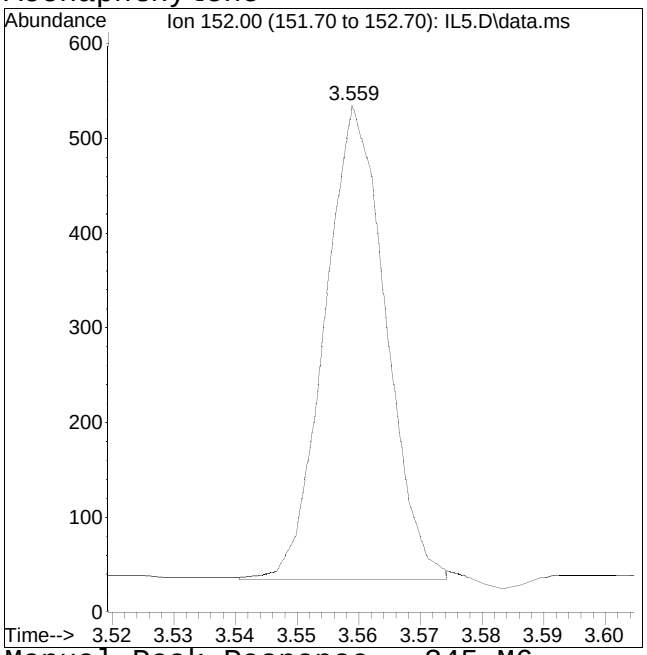
Manual Integration Report

Data Path : I:\8270SIM\SV128\231211LVIQMethod : SIM-LVI_231211_sv128.M
Data File : IL5.D Operator : SV128:dv
Date Inj'd : 12/11/2023 2:50 pm Instrument : SV128
Sample : IL5,32,, 0.1 Lot#10231 Quant Date : 12/15/2023 2:30 pm

Compound #16: Acenaphthylene



Original Peak Response = 366



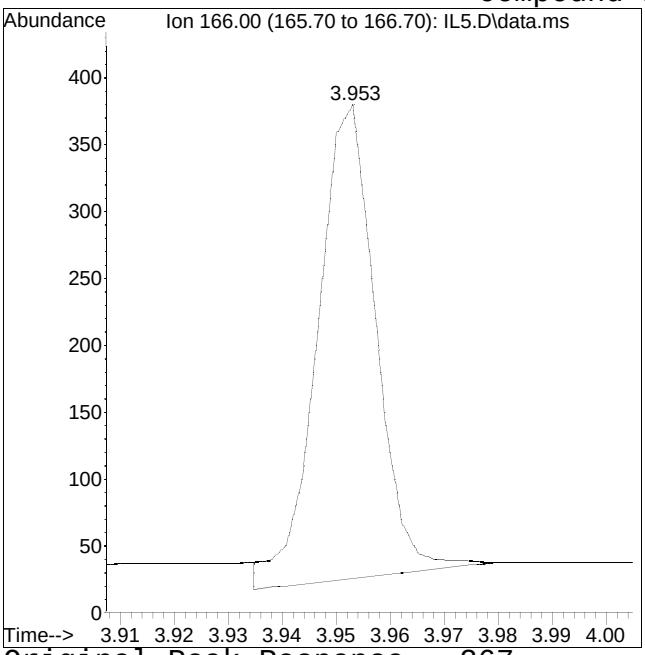
Manual Peak Response = 345 M6

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

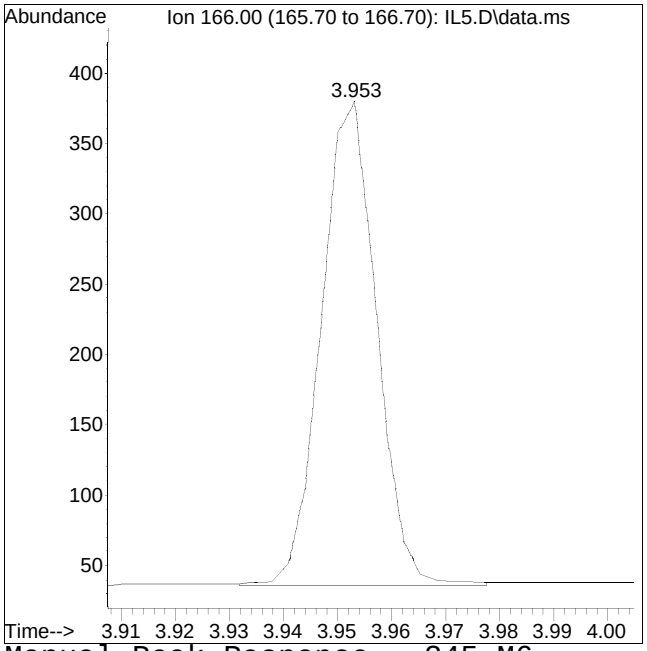
Manual Integration Report

Data Path : I:\8270SIM\SV128\231211LVIQMethod : SIM-LVI_231211_sv128.M
Data File : IL5.D Operator : SV128:dv
Date Inj'd : 12/11/2023 2:50 pm Instrument : SV128
Sample : IL5,32,, 0.1 Lot#10231 Quant Date : 12/15/2023 2:30 pm

Compound #20: Fluorene



Original Peak Response = 267



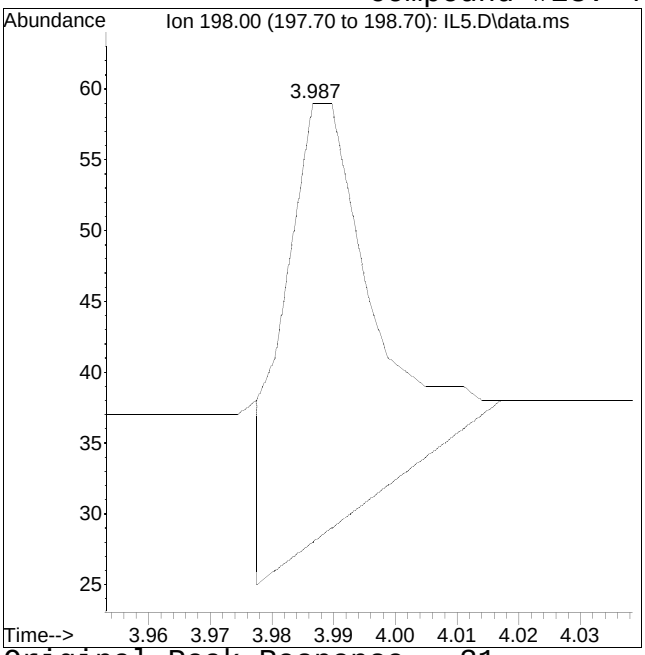
Manual Peak Response = 245 M6

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

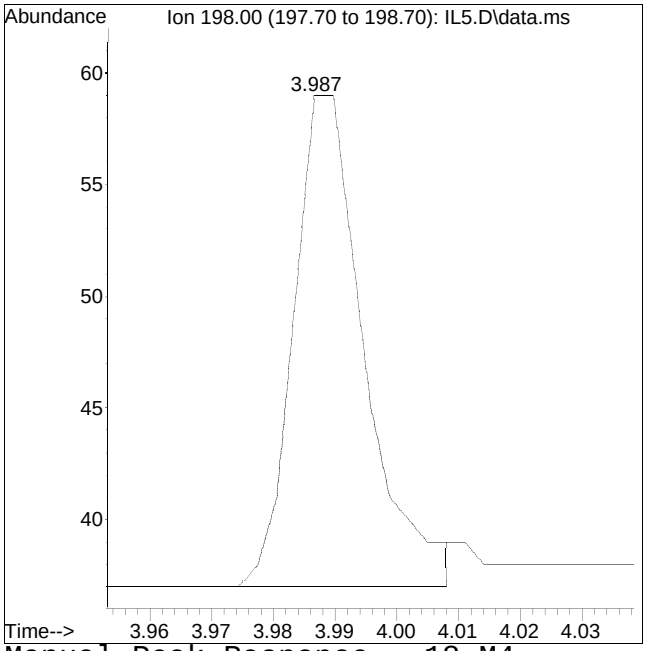
Manual Integration Report

Data Path : I:\8270SIM\SV128\231211LVIQMethod : SIM-LVI_231211_sv128.M
Data File : IL5.D Operator : SV128:dv
Date Inj'd : 12/11/2023 2:50 pm Instrument : SV128
Sample : IL5,32,, 0.1 Lot#10231 Quant Date : 12/15/2023 2:30 pm

Compound #23: 4,6-Dinitro-o-cresol



Original Peak Response = 31



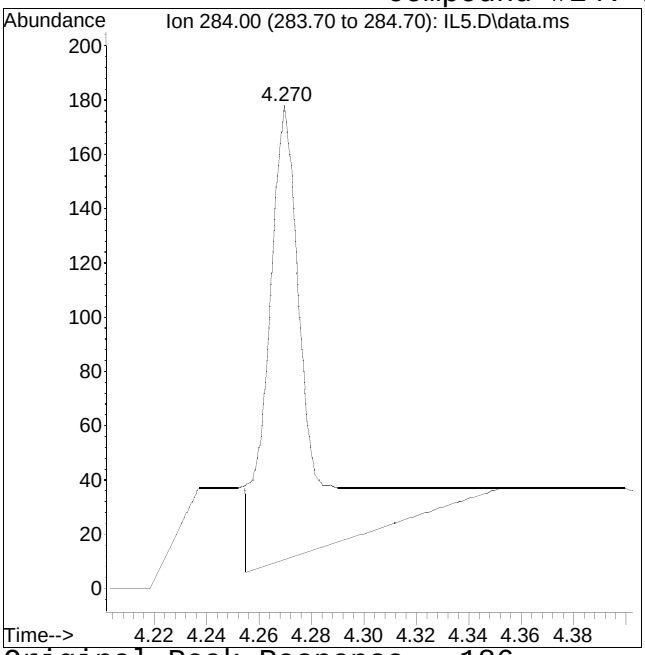
Manual Peak Response = 18 M4

M4 = Poor automated baseline construction.

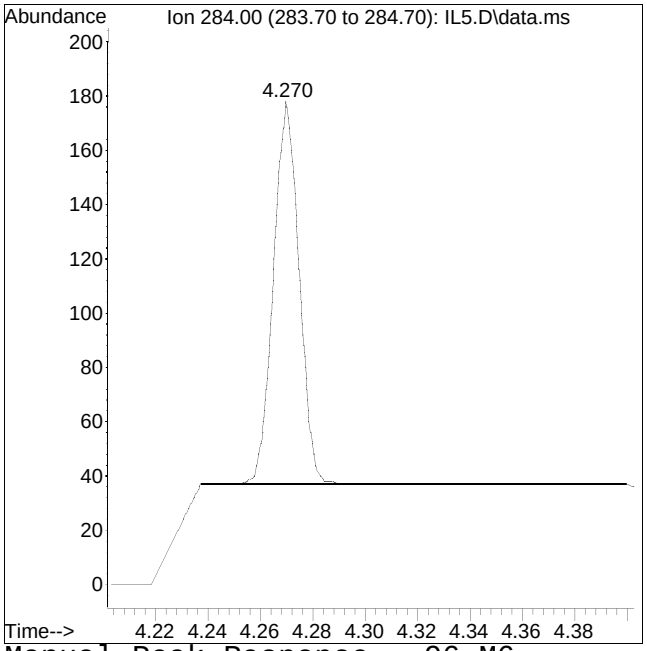
Manual Integration Report

Data Path : I:\8270SIM\SV128\231211LVIQMethod : SIM-LVI_231211_sv128.M
Data File : IL5.D Operator : SV128:dv
Date Inj'd : 12/11/2023 2:50 pm Instrument : SV128
Sample : IL5,32,, 0.1 Lot#10231 Quant Date : 12/15/2023 2:30 pm

Compound #24: Hexachlorobenzene



Original Peak Response = 186



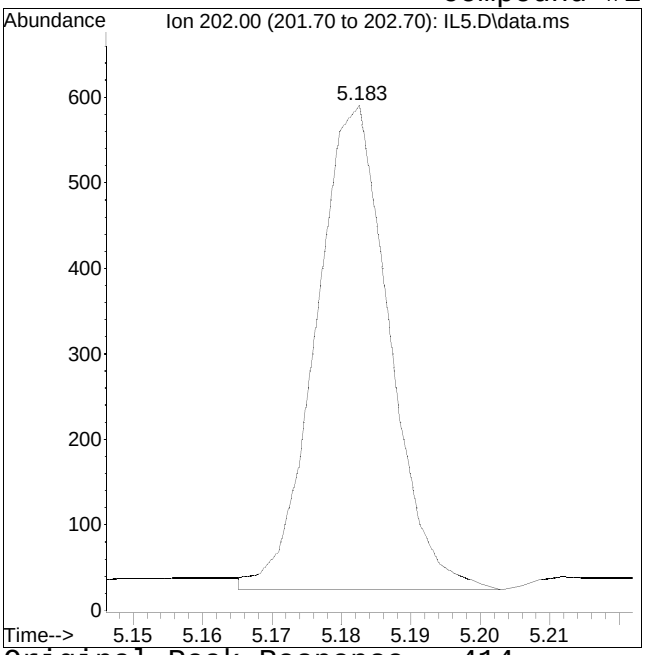
Manual Peak Response = 96 M6

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

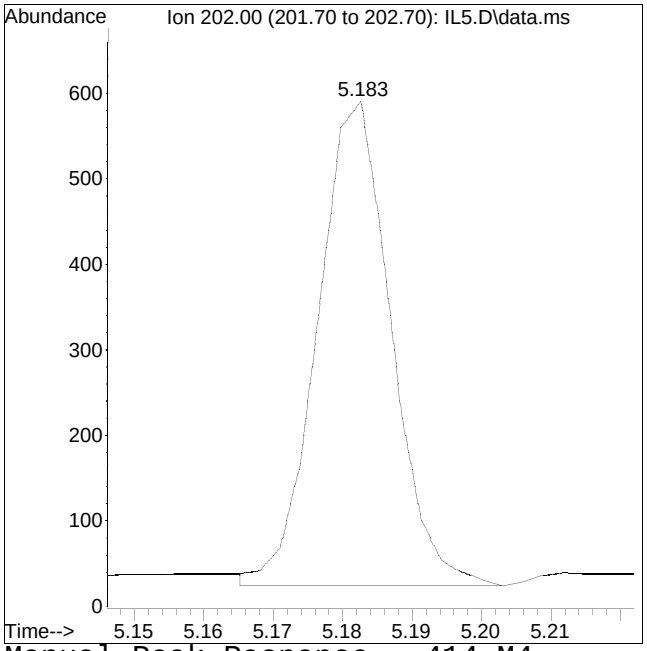
Manual Integration Report

Data Path : I:\8270SIM\SV128\231211LVIQMethod : SIM-LVI_231211_sv128.M
Data File : IL5.D Operator : SV128:dv
Date Inj'd : 12/11/2023 2:50 pm Instrument : SV128
Sample : IL5,32,, 0.1 Lot#10231 Quant Date : 12/15/2023 2:30 pm

Compound #28: Fluoranthene



Original Peak Response = 414



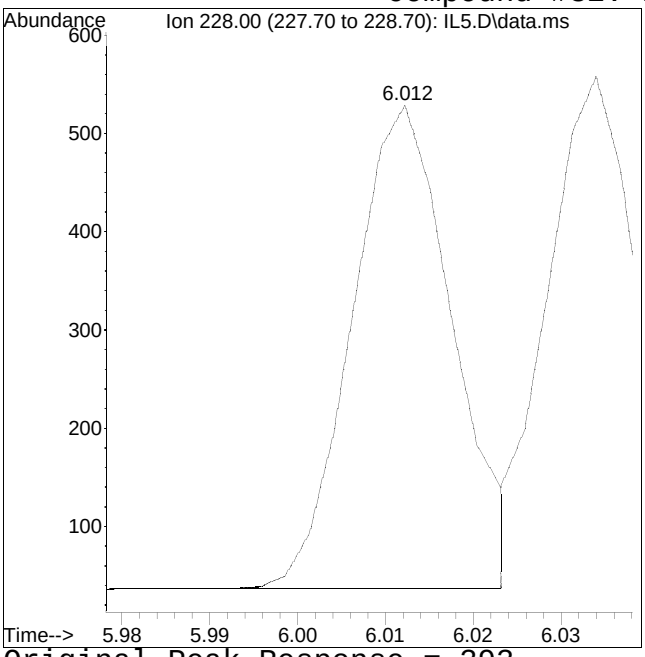
Manual Peak Response = 414 M4

M4 = Poor automated baseline construction.

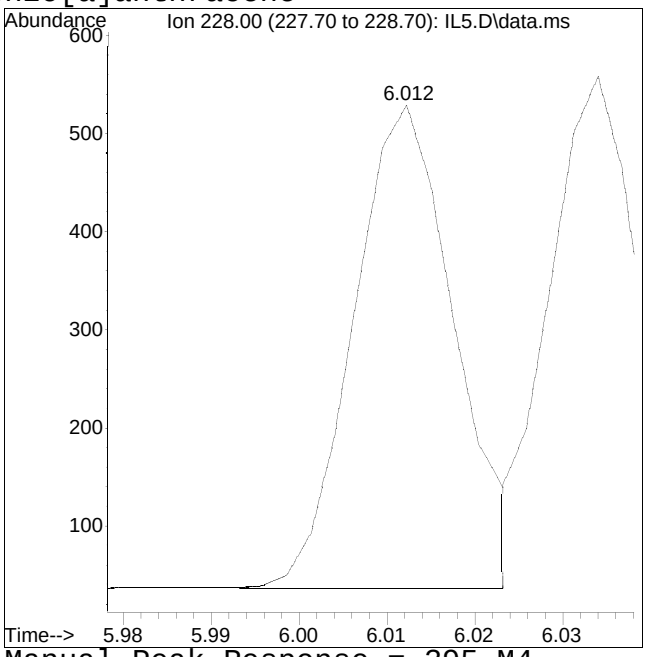
Manual Integration Report

Data Path : I:\8270SIM\SV128\231211LVIQMethod : SIM-LVI_231211_sv128.M
Data File : IL5.D Operator : SV128:dv
Date Inj'd : 12/11/2023 2:50 pm Instrument : SV128
Sample : IL5,32,, 0.1 Lot#10231 Quant Date : 12/15/2023 2:30 pm

Compound #32: Benzo[a]anthracene



Original Peak Response = 393



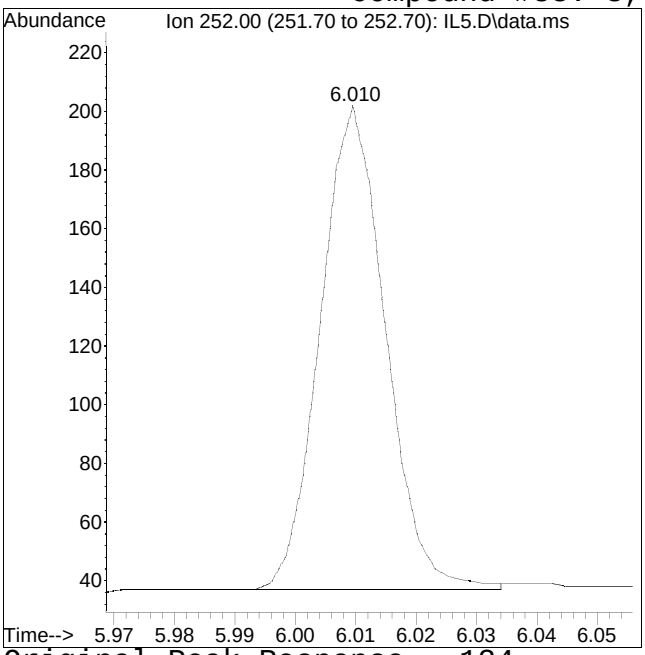
Manual Peak Response = 395 M4

M4 = Poor automated baseline construction.

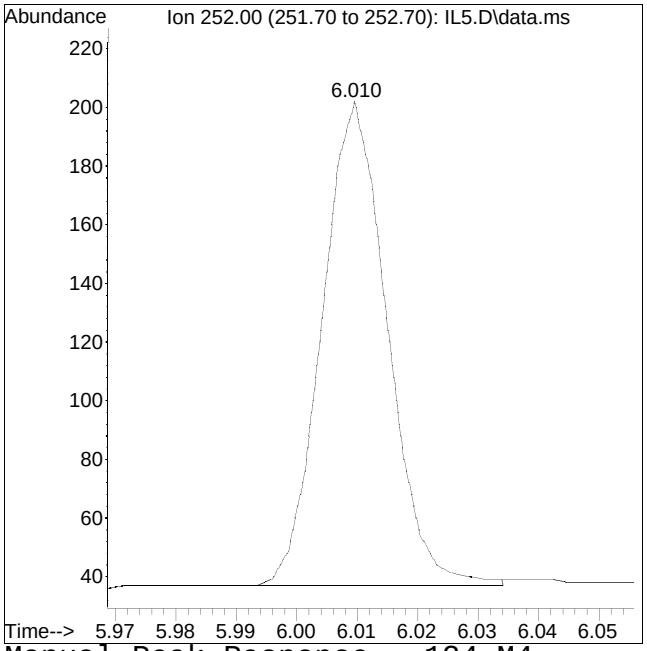
Manual Integration Report

Data Path : I:\8270SIM\SV128\231211LVIQMethod : SIM-LVI_231211_sv128.M
Data File : IL5.D Operator : SV128:dv
Date Inj'd : 12/11/2023 2:50 pm Instrument : SV128
Sample : IL5,32,, 0.1 Lot#10231 Quant Date : 12/15/2023 2:30 pm

Compound #33: 3,3'-Dichlorobenzidine



Original Peak Response = 124



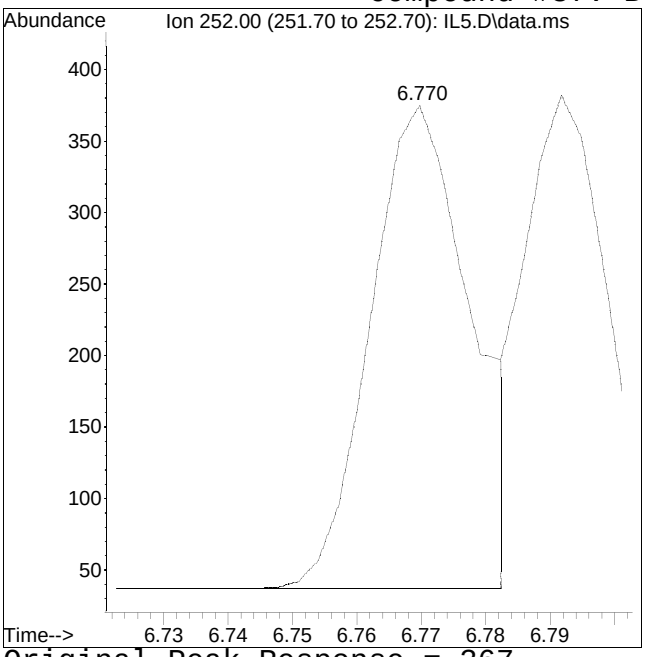
Manual Peak Response = 124 M4

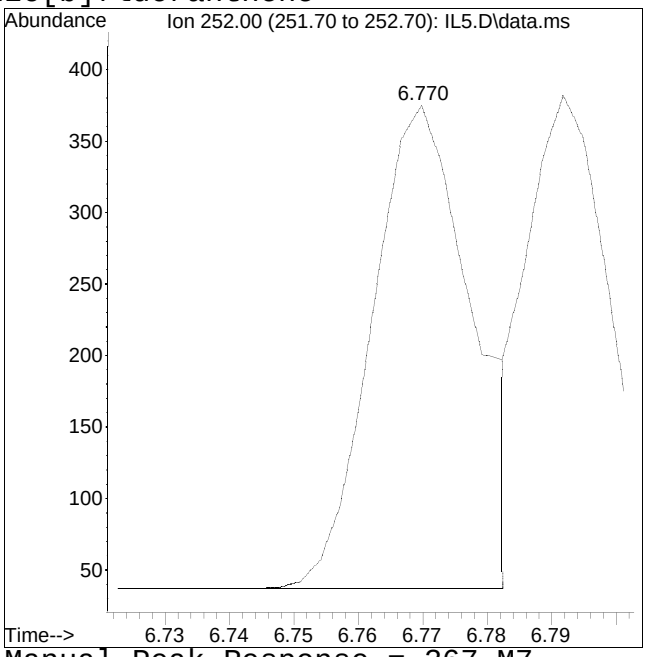
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\8270SIM\SV128\231211LVIQMethod : SIM-LVI_231211_sv128.M
Data File : IL5.D Operator : SV128:dv
Date Inj'd : 12/11/2023 2:50 pm Instrument : SV128
Sample : IL5,32,, 0.1 Lot#10231 Quant Date : 12/15/2023 2:30 pm

Compound #37: Benzo[b]fluoranthene



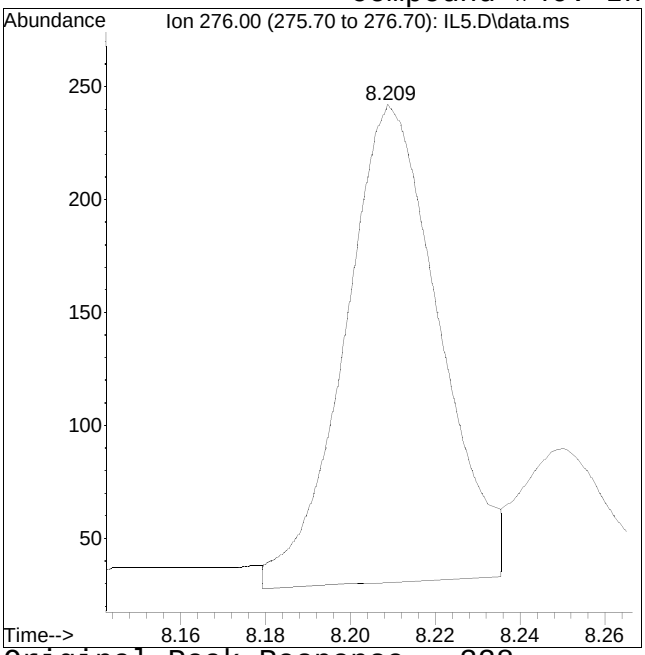


Original Peak Response = 367 Manual Peak Response = 367 M7
M7 = A qualifier ion was manually integrated (only for GC/MS data).

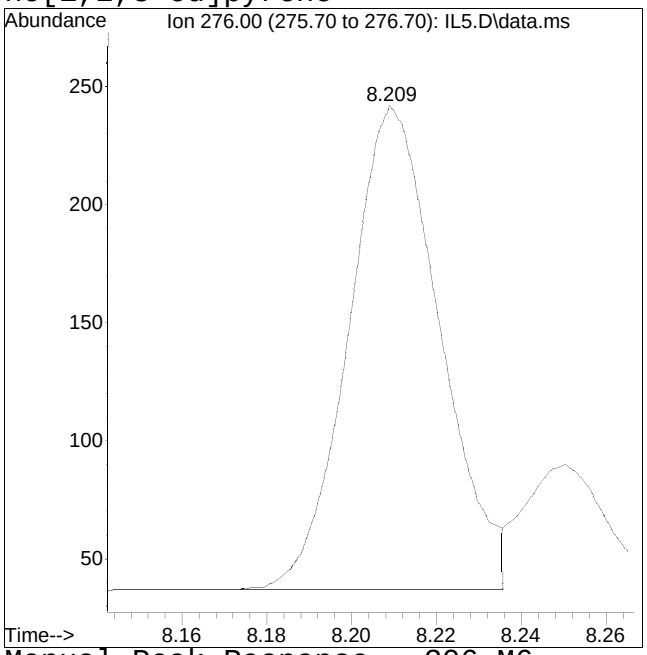
Manual Integration Report

Data Path : I:\8270SIM\SV128\231211LVIQMethod : SIM-LVI_231211_sv128.M
Data File : IL5.D Operator : SV128:dv
Date Inj'd : 12/11/2023 2:50 pm Instrument : SV128
Sample : IL5,32,, 0.1 Lot#10231 Quant Date : 12/15/2023 2:30 pm

Compound #40: Indeno[1,2,3-cd]pyrene



Original Peak Response = 328



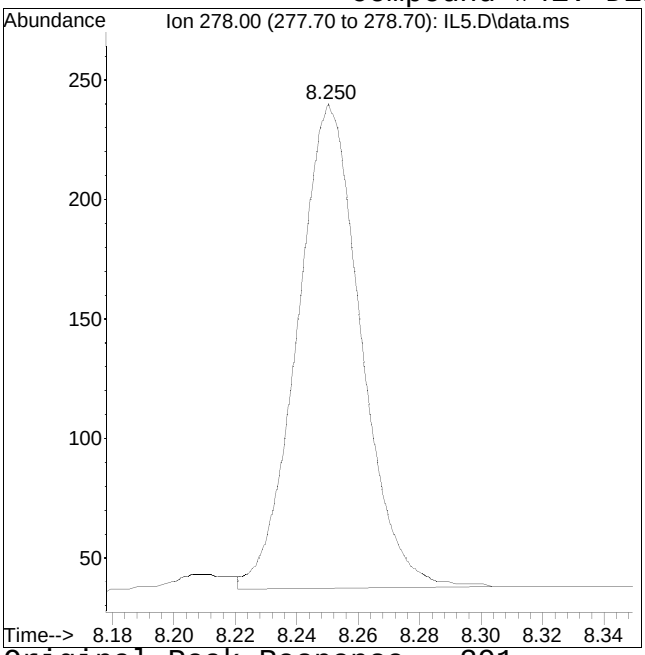
Manual Peak Response = 306 M6

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

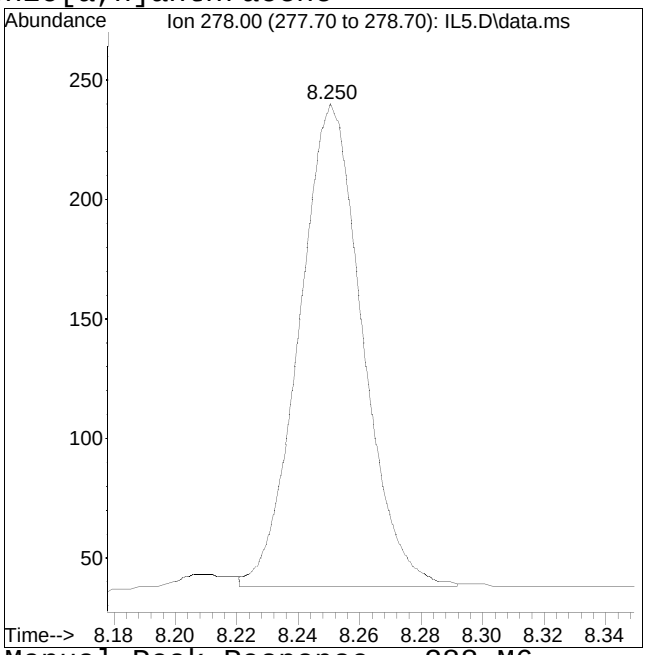
Manual Integration Report

Data Path : I:\8270SIM\SV128\231211LVIQMethod : SIM-LVI_231211_sv128.M
Data File : IL5.D Operator : SV128:dv
Date Inj'd : 12/11/2023 2:50 pm Instrument : SV128
Sample : IL5,32,, 0.1 Lot#10231 Quant Date : 12/15/2023 2:30 pm

Compound #41: Dibenzo[a,h]anthracene



Original Peak Response = 291



Manual Peak Response = 288 M6

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV128\231211LVIical\
Data File : IL4.D
Acq On : 11 Dec 2023 03:06 pm
Operator : SV128:dv
Sample : IL4,32,, 0.05 Lot#10232
Misc : WG1864557,,ical
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Dec 15 14:45:03 2023
Quant Method : I:\8270SIM\SV128\231211LVIical\SIM-LVI_231211_sv128.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Dec 15 14:39:52 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\SV128\231211LVIical\IL7.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.017	152	3417	4000.000	ng/ml	0.00
Standard Area 1 = 2982			Recovery = 114.59%			
8) Naphthalene-d8	2.674	136	11600	4000.000	ng/ml	0.00
Standard Area 1 = 10566			Recovery = 109.79%			
17) Acenaphthene-d10	3.642	164	6056	4000.000	ng/ml	0.00
Standard Area 1 = 6070			Recovery = 99.77%			
22) Phenanthrene-d10	4.486	188	11517	4000.000	ng/ml	0.00
Standard Area 1 = 13526			Recovery = 85.15%			
31) Chrysene-d12	6.018	240	8074	4000.000	ng/ml	0.00
Standard Area 1 = 12766			Recovery = 63.25%			
36) Perylene-d12	7.100	264	9082	4000.000	ng/ml	0.00
Standard Area 1 = 15405			Recovery = 58.95%			
System Monitoring Compounds						
2) 2-Fluorophenol	1.427	112	43	49.973	ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 1.00%#			
3) Phenol-d6	1.838	99	49M6	48.727	ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 0.97%#			
7) Nitrobenzene-d5	2.298	82	39M6	47.990	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 1.92%#			
13) 2-Fluorobiphenyl	3.272	172	119	48.374	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 1.93%#			
21) 2,4,6-Tribromophenol	4.091	330	12	39.653	ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 0.79%#			
30) 4-Terphenyl-d14	5.419	244	101	42.094	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 1.68%#			
Target Compounds						Qvalue
4) Bis(2-chloroethyl)ether	1.890	93	43M6	50.067	ng/ml	
5) n-nitrosodi-n-propylamine	2.225	70	28	46.701	ng/ml	98
6) Hexachloroethane	2.270	117	19	46.559	ng/ml	89
9) Naphthalene	2.683	128	149	50.089	ng/ml#	98
10) Hexachlorobutadiene	2.759	225	34M4	49.896	ng/ml	
11) 2-Methylnaphthalene	3.062	142	91	47.887	ng/ml	99
12) 1-Methylnaphthalene	3.116	142	86	48.056	ng/ml	100
14) 2-Chloronaphthalene	3.330	162	99	47.854	ng/ml	99
15) 2,6-Dinitrotoluene	3.529	165	12M4	60.971	ng/ml	

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV128\231211LVIical\
Data File : IL4.D
Acq On : 11 Dec 2023 03:06 pm
Operator : SV128:dv
Sample : IL4,32,, 0.05 Lot#10232
Misc : WG1864557,,ical
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Dec 15 14:45:03 2023
Quant Method : I:\8270SIM\SV128\231211LVIical\SIM-LVI_231211_sv128.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Dec 15 14:39:52 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\SV128\231211LVIical\IL7.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
16) Acenaphthylene	3.559	152	139M6	45.357	ng/ml	
18) Acenaphthene	3.660	153	104M6	50.802	ng/ml	
19) 2,4-Dinitrotoluene	3.758	165	14	61.942	ng/ml	89
20) Fluorene	3.954	166	99M6	47.916	ng/ml	
23) 4,6-Dinitro-o-cresol	0.000		0	N.D.	d	
24) Hexachlorobenzene	4.270	284	40M6	52.195	ng/ml	
25) Pentachlorophenol	4.385	266	10	65.903	ng/ml	97
26) Phenanthrene	4.498	178	156M6	50.091	ng/ml	
27) Anthracene	4.527	178	144	47.853	ng/ml	99
28) Fluoranthene	5.183	202	149M7	43.547	ng/ml	
29) Pyrene	5.311	202	156	44.067	ng/ml	98
32) Benzo[a]anthracene	6.013	228	151	46.277	ng/ml	92
33) 3,3'-Dichlorobenzidine	6.010	252	45M7	56.469	ng/ml	
34) Chrysene	6.034	228	142	51.015	ng/ml	98
35) Bis(2-ethylhexyl)phtha...	6.070	149	48	84.822	ng/ml	95
37) Benzo[b]fluoranthene	6.770	252	135M4	48.000	ng/ml	
38) Benzo[k]fluoranthene	6.795	252	121	46.231	ng/ml	98
39) Benzo[a]pyrene	7.046	252	114	46.030	ng/ml	99
40) Indeno[1,2,3-cd]pyrene	8.209	276	122M1	49.263	ng/ml	
41) Dibenzo[a,h]anthracene	8.251	278	110M4	45.733	ng/ml	
42) Benzo[g,h,i]perylene	8.519	276	130	50.503	ng/ml	98

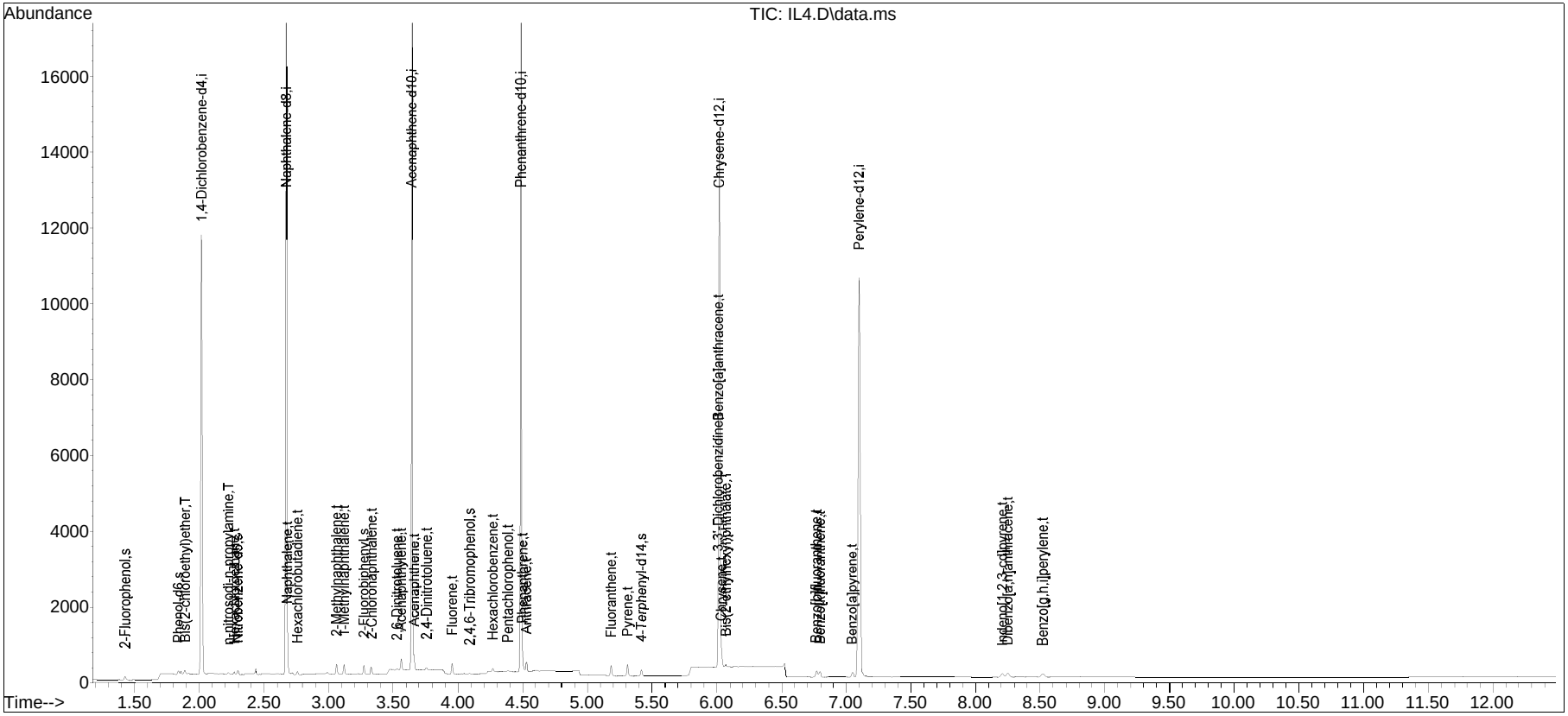
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV128\231211LVIical\
Data File : IL4.D
Acq On : 11 Dec 2023 03:06 pm
Operator : SV128:dv
Sample : IL4,32,, 0.05 Lot#10232
Misc : WG1864557,,ical
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Dec 15 14:45:03 2023
Quant Method : I:\8270SIM\SV128\231211LVIical\SIM-LVI_231211_sv128.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Dec 15 14:39:52 2023
Response via : Initial Calibration

Sub List : Default - All compounds listedical\IL7.D•

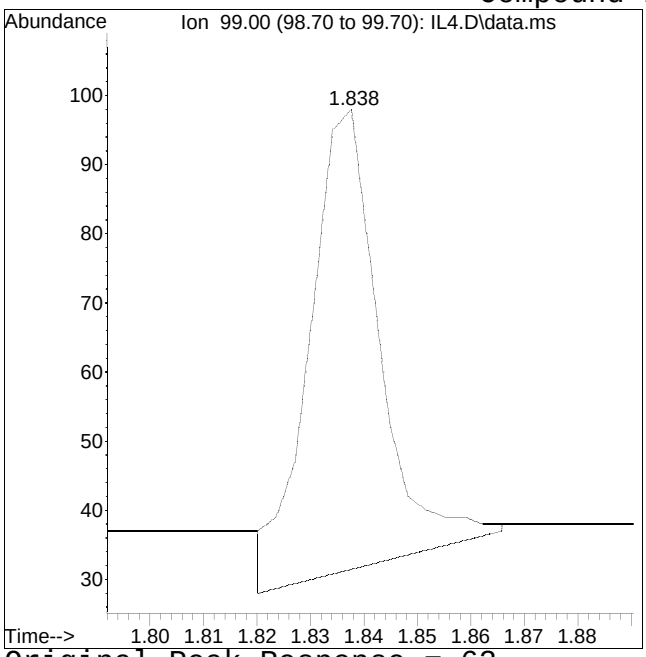


Manual Integration Report

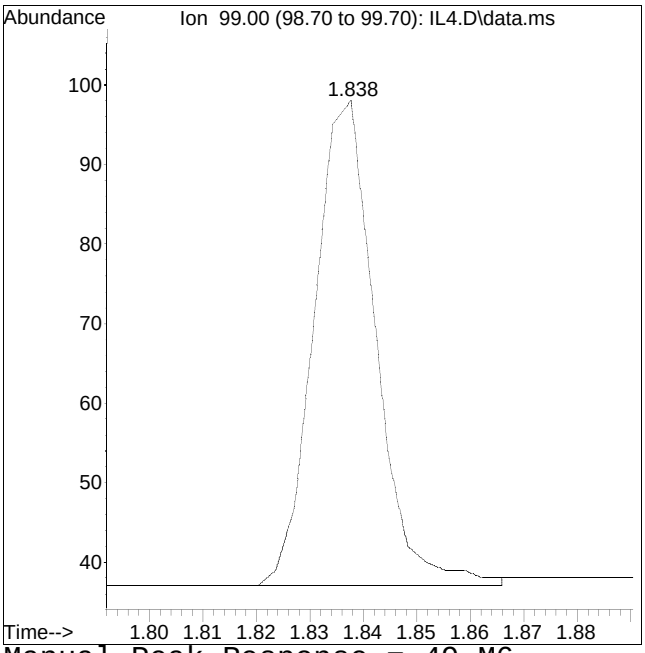
Data Path : I:\8270SIM\SV128\231211LVIQ
Data File : IL4.D
Date Inj'd : 12/11/2023 3:06 pm
Sample : IL4,32,, 0.05 Lot#10232

Method : SIM-LVI_231211_sv128.M
Operator : SV128:dv
Instrument : SV128
Quant Date : 12/15/2023 2:39 pm

Compound #3: Phenol-d6



Original Peak Response = 62



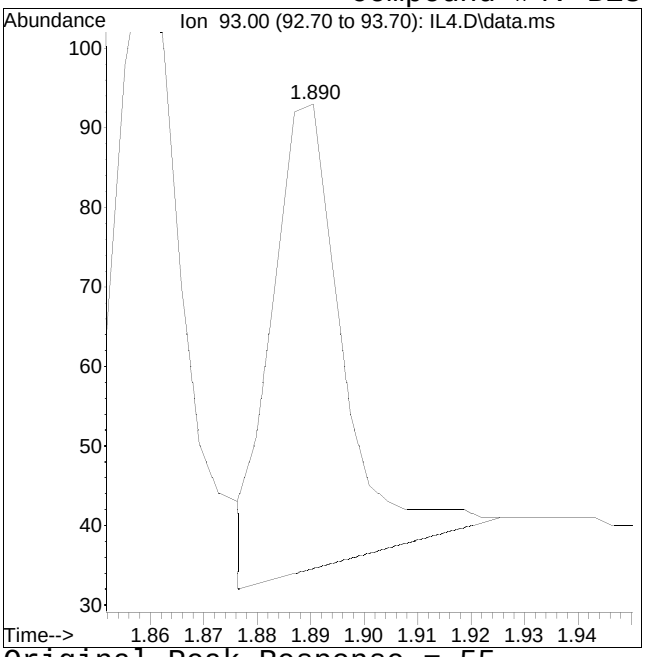
Manual Peak Response = 49 M6

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

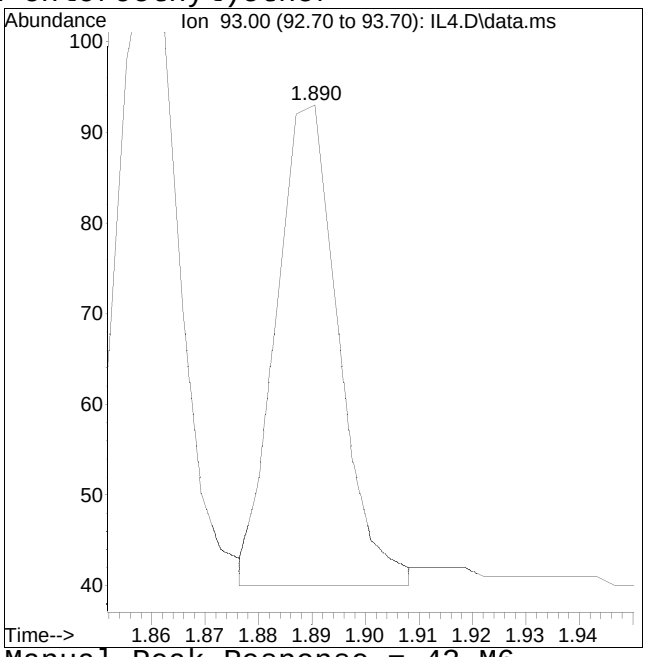
Manual Integration Report

Data Path : I:\8270SIM\SV128\231211LVIQMethod : SIM-LVI_231211_sv128.M
Data File : IL4.D Operator : SV128:dv
Date Inj'd : 12/11/2023 3:06 pm Instrument : SV128
Sample : IL4,32,, 0.05 Lot#10232 Quant Date : 12/15/2023 2:39 pm

Compound #4: Bis(2-chloroethyl)ether



Original Peak Response = 55



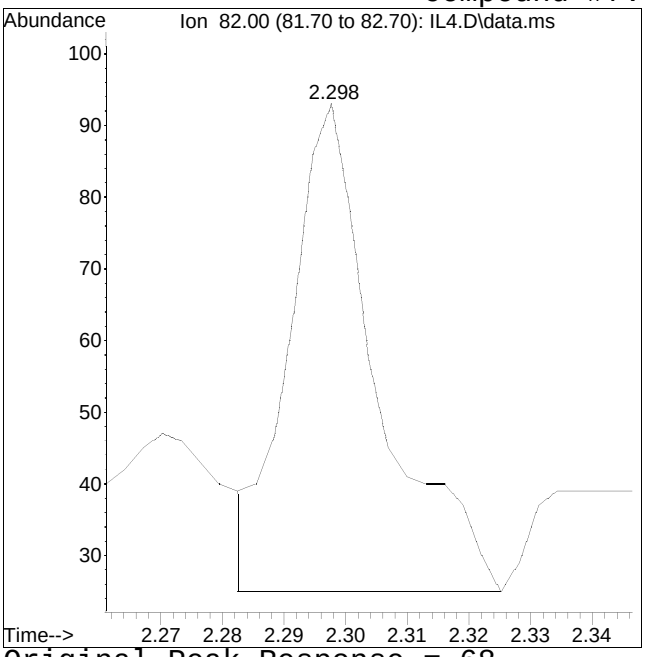
Manual Peak Response = 43 M6

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

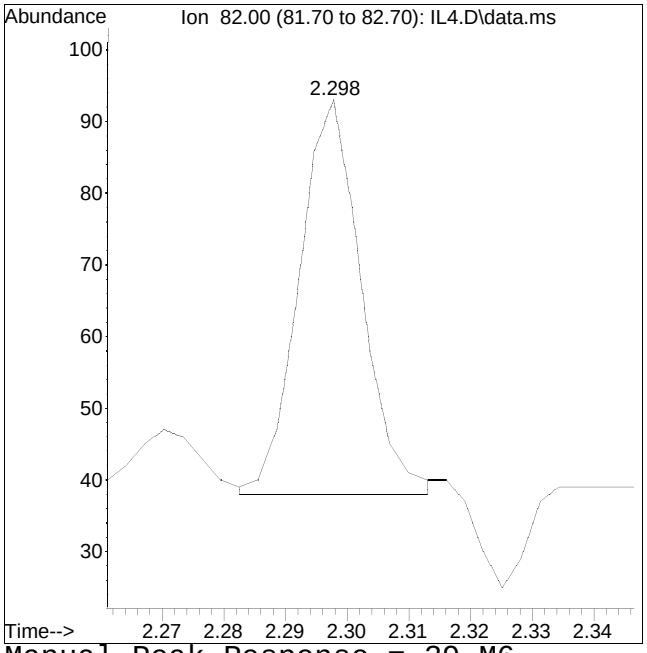
Manual Integration Report

Data Path : I:\8270SIM\SV128\231211LVIQMethod : SIM-LVI_231211_sv128.M
Data File : IL4.D Operator : SV128:dv
Date Inj'd : 12/11/2023 3:06 pm Instrument : SV128
Sample : IL4,32,, 0.05 Lot#10232 Quant Date : 12/15/2023 2:39 pm

Compound #7: Nitrobenzene-d5



Original Peak Response = 68



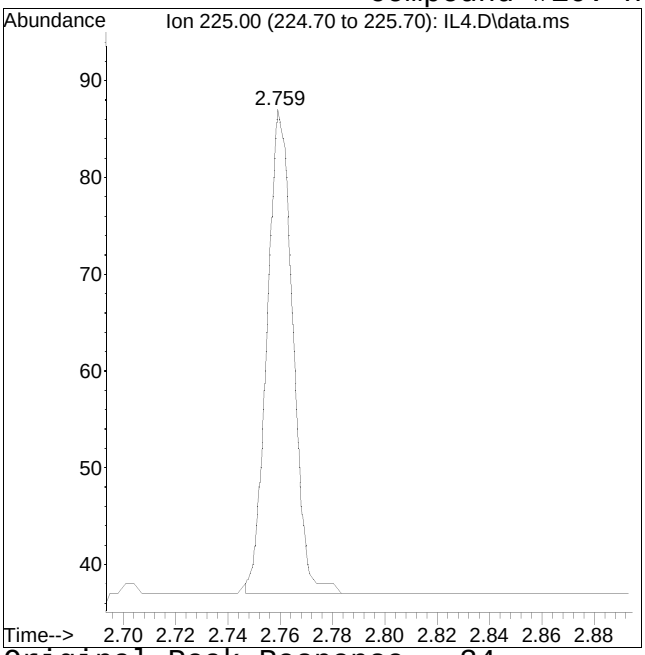
Manual Peak Response = 39 M6

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

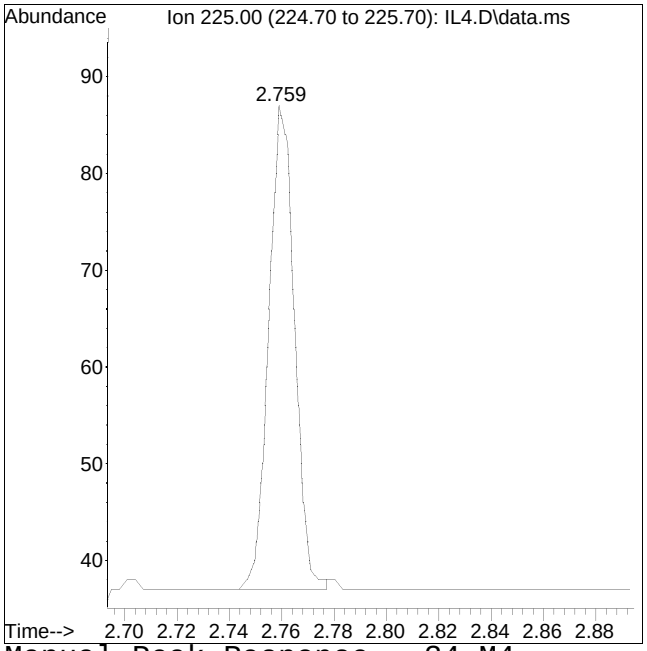
Manual Integration Report

Data Path : I:\8270SIM\SV128\231211LVIQMethod : SIM-LVI_231211_sv128.M
Data File : IL4.D Operator : SV128:dv
Date Inj'd : 12/11/2023 3:06 pm Instrument : SV128
Sample : IL4,32,, 0.05 Lot#10232 Quant Date : 12/15/2023 2:39 pm

Compound #10: Hexachlorobutadiene



Original Peak Response = 34



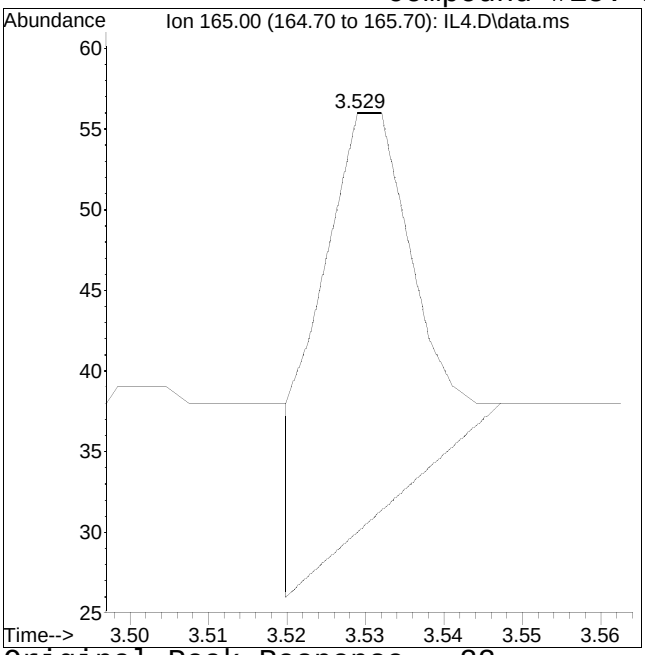
Manual Peak Response = 34 M4

M4 = Poor automated baseline construction.

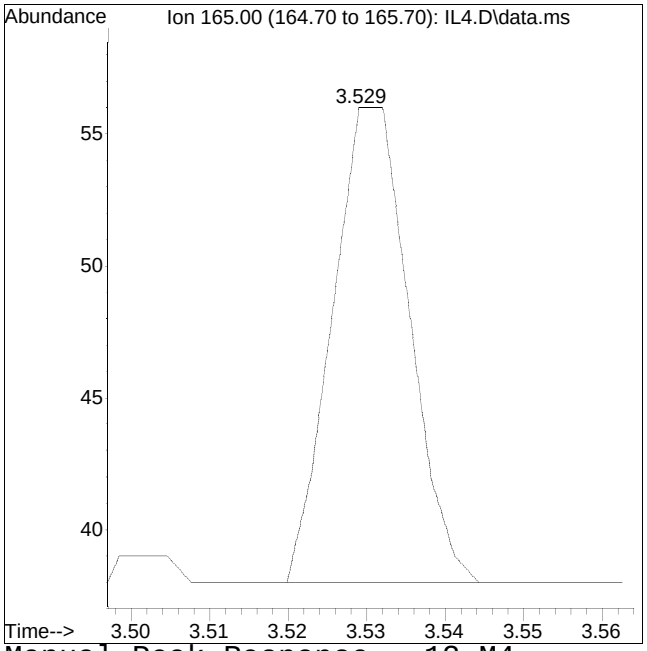
Manual Integration Report

Data Path : I:\8270SIM\SV128\231211LVIQMethod : SIM-LVI_231211_sv128.M
Data File : IL4.D Operator : SV128:dv
Date Inj'd : 12/11/2023 3:06 pm Instrument : SV128
Sample : IL4,32,, 0.05 Lot#10232 Quant Date : 12/15/2023 2:39 pm

Compound #15: 2,6-Dinitrotoluene



Original Peak Response = 22



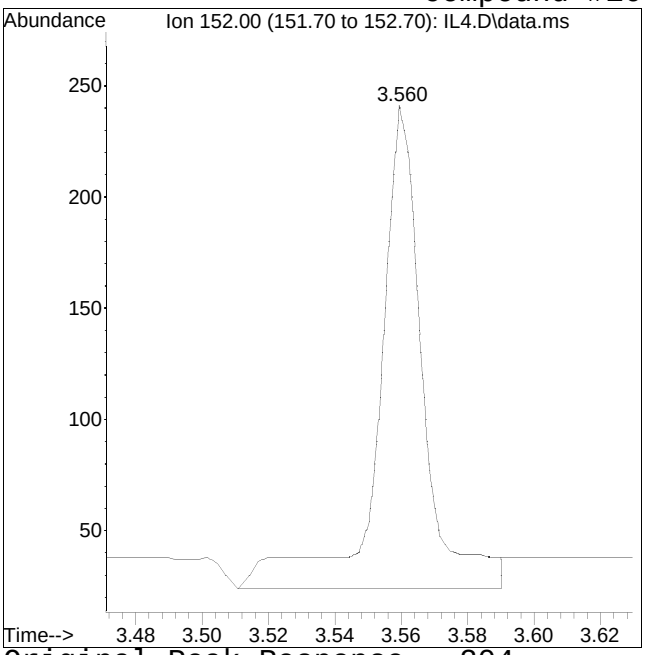
Manual Peak Response = 12 M4

M4 = Poor automated baseline construction.

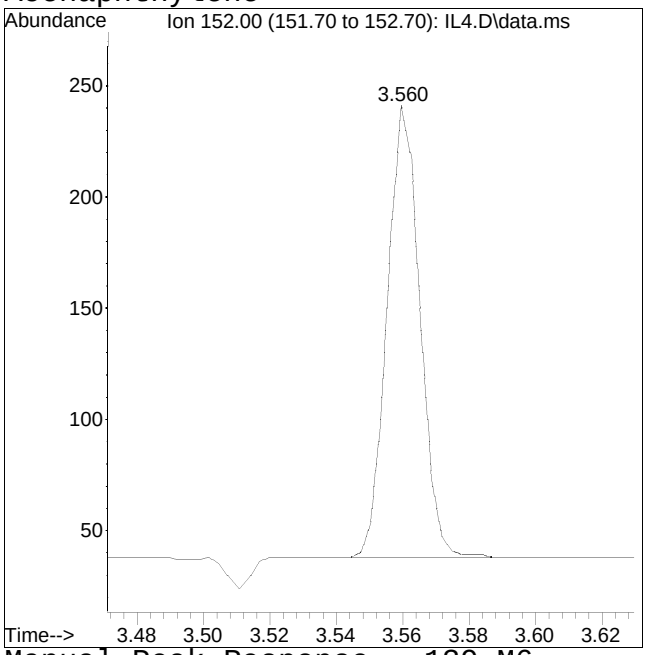
Manual Integration Report

Data Path : I:\8270SIM\SV128\231211LVIQMethod : SIM-LVI_231211_sv128.M
Data File : IL4.D Operator : SV128:dv
Date Inj'd : 12/11/2023 3:06 pm Instrument : SV128
Sample : IL4,32,, 0.05 Lot#10232 Quant Date : 12/15/2023 2:39 pm

Compound #16: Acenaphthylene



Original Peak Response = 204



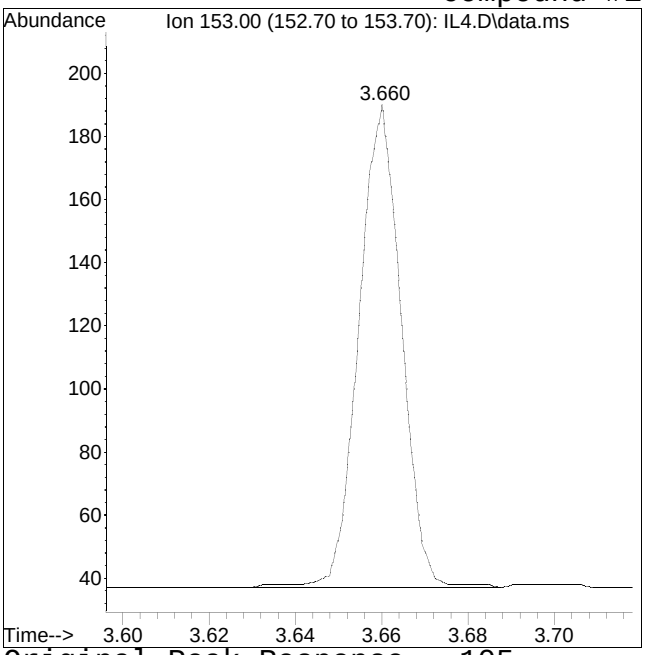
Manual Peak Response = 139 M6

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

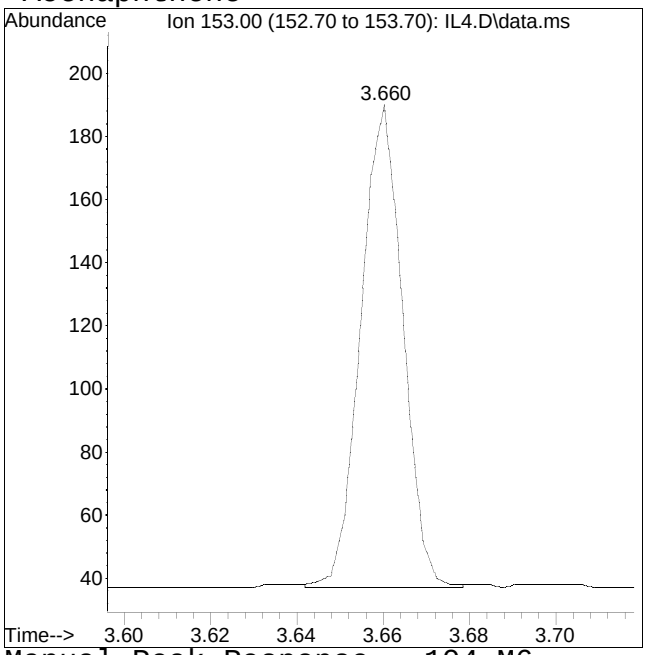
Manual Integration Report

Data Path : I:\8270SIM\SV128\231211LVIQMethod : SIM-LVI_231211_sv128.M
Data File : IL4.D Operator : SV128:dv
Date Inj'd : 12/11/2023 3:06 pm Instrument : SV128
Sample : IL4,32,, 0.05 Lot#10232 Quant Date : 12/15/2023 2:39 pm

Compound #18: Acenaphthene



Original Peak Response = 105



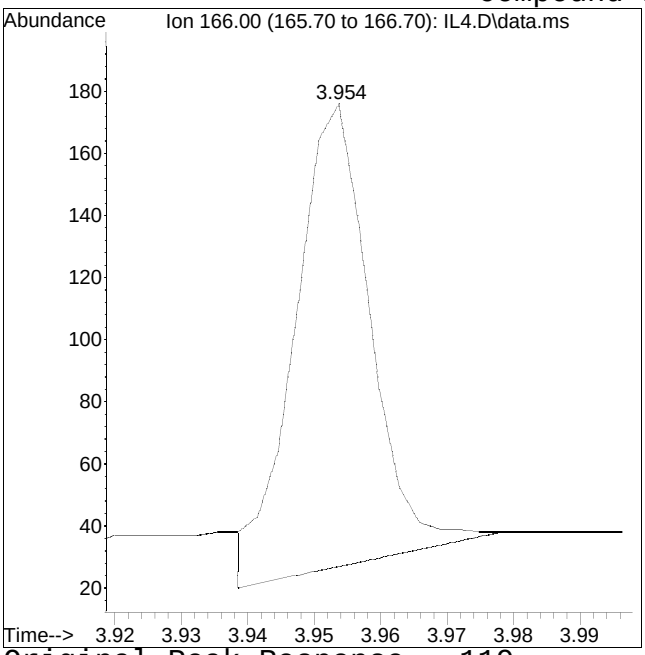
Manual Peak Response = 104 M6

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

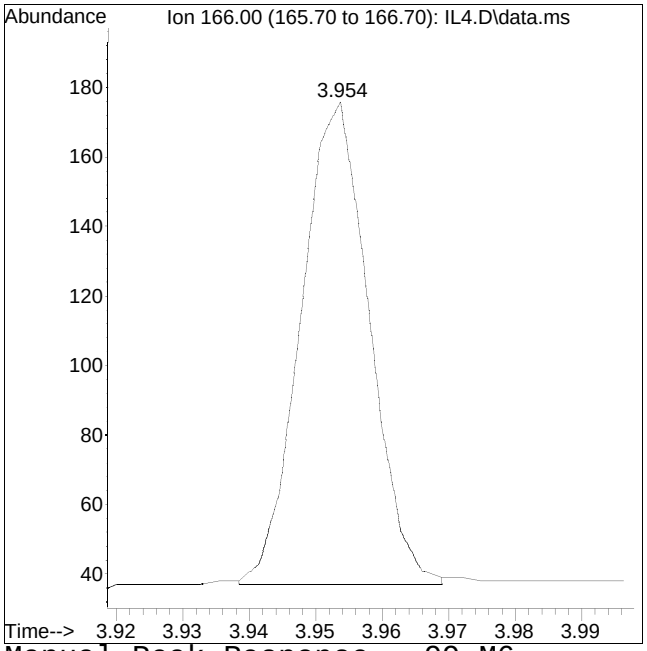
Manual Integration Report

Data Path : I:\8270SIM\SV128\231211LVIQMethod : SIM-LVI_231211_sv128.M
Data File : IL4.D Operator : SV128:dv
Date Inj'd : 12/11/2023 3:06 pm Instrument : SV128
Sample : IL4,32,, 0.05 Lot#10232 Quant Date : 12/15/2023 2:39 pm

Compound #20: Fluorene



Original Peak Response = 119



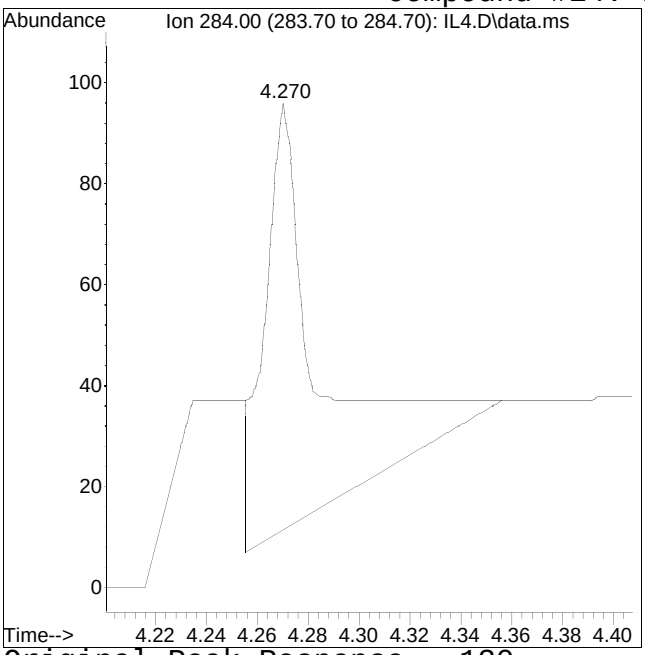
Manual Peak Response = 99 M6

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

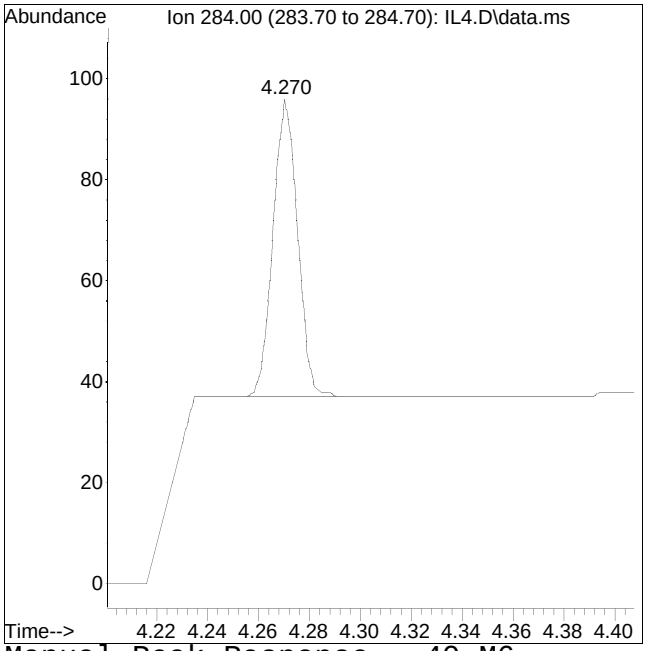
Manual Integration Report

Data Path : I:\8270SIM\SV128\231211LVIQMethod : SIM-LVI_231211_sv128.M
Data File : IL4.D Operator : SV128:dv
Date Inj'd : 12/11/2023 3:06 pm Instrument : SV128
Sample : IL4,32,, 0.05 Lot#10232 Quant Date : 12/15/2023 2:39 pm

Compound #24: Hexachlorobenzene



Original Peak Response = 130



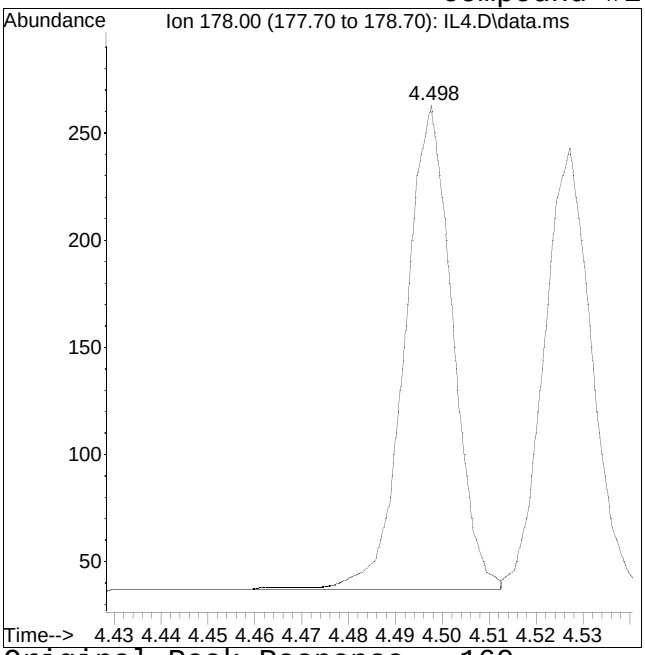
Manual Peak Response = 40 M6

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

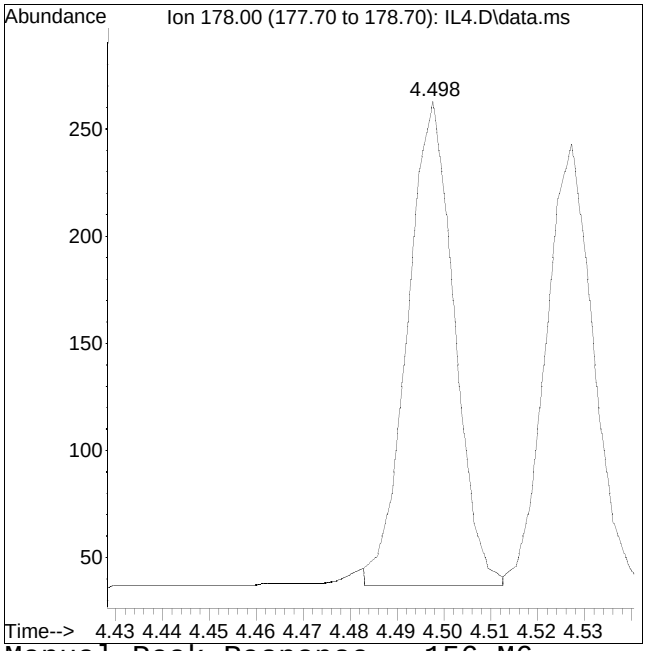
Manual Integration Report

Data Path : I:\8270SIM\SV128\231211LVIQMethod : SIM-LVI_231211_sv128.M
Data File : IL4.D Operator : SV128:dv
Date Inj'd : 12/11/2023 3:06 pm Instrument : SV128
Sample : IL4,32,, 0.05 Lot#10232 Quant Date : 12/15/2023 2:39 pm

Compound #26: Phenanthrene



Original Peak Response = 160



Manual Peak Response = 156 M6

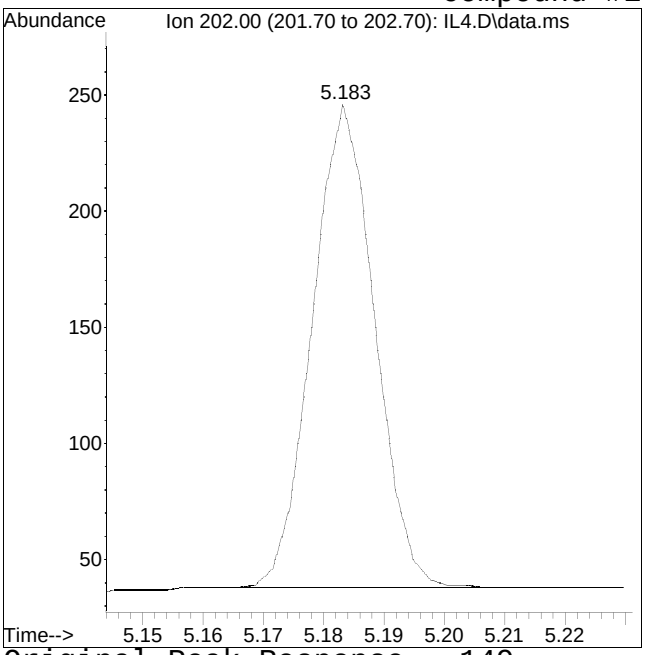
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

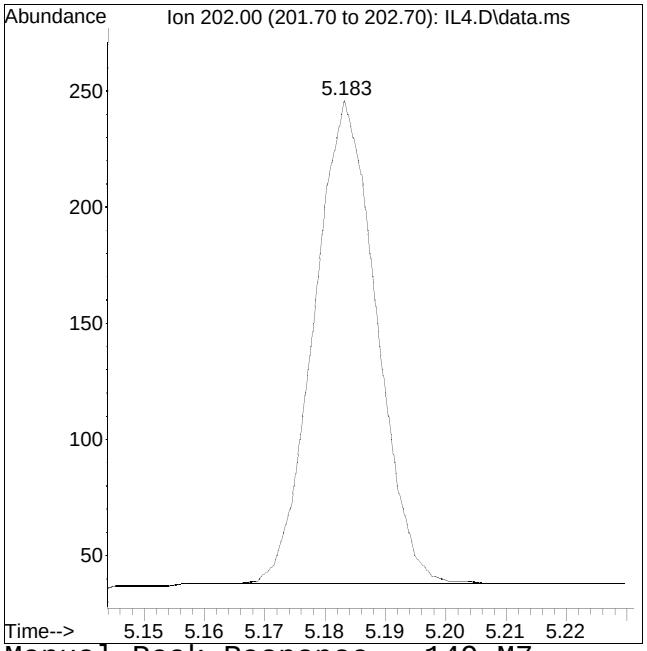
Manual Integration Report

Data Path : I:\8270SIM\SV128\231211LVIQ
Data File : IL4.D
Date Inj'd : 12/11/2023 3:06 pm
Sample : IL4,32,, 0.05 Lot#10232

Method : SIM-LVI_231211_sv128.M
Operator : SV128:dv
Instrument : SV128
Quant Date : 12/15/2023 2:39 pm

Compound #28: Fluoranthene





Original Peak Response = 149 Manual Peak Response = 149 M7

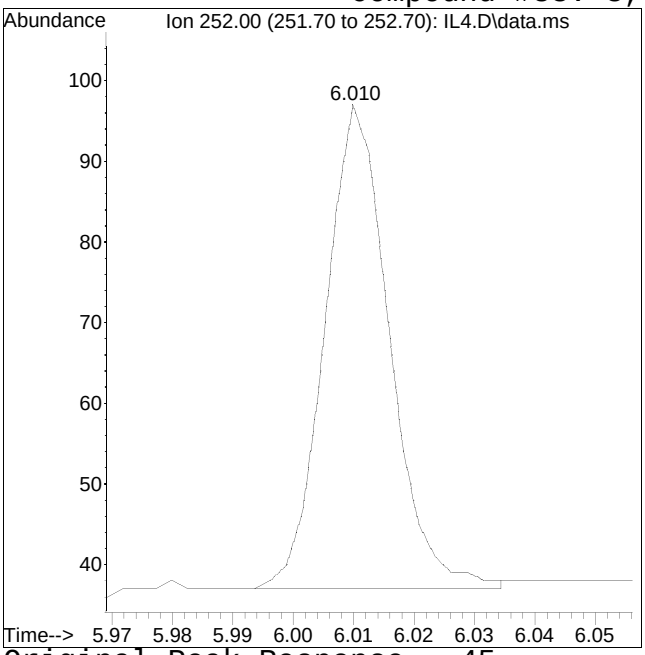
M7 = A qualifier ion was manually integrated (only for GC/MS data).

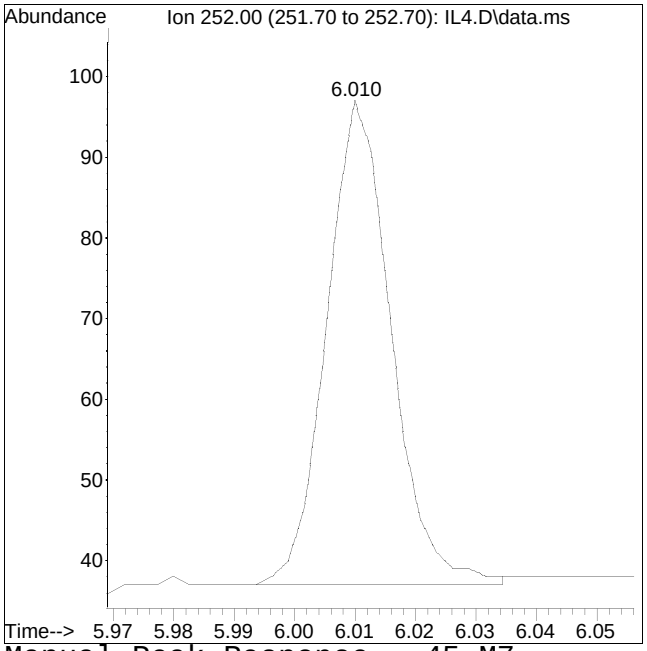
Manual Integration Report

Data Path : I:\8270SIM\SV128\231211LVIQ
Data File : IL4.D
Date Inj'd : 12/11/2023 3:06 pm
Sample : IL4,32,, 0.05 Lot#10232

Method : SIM-LVI_231211_sv128.M
Operator : SV128:dv
Instrument : SV128
Quant Date : 12/15/2023 2:39 pm

Compound #33: 3,3'-Dichlorobenzidine





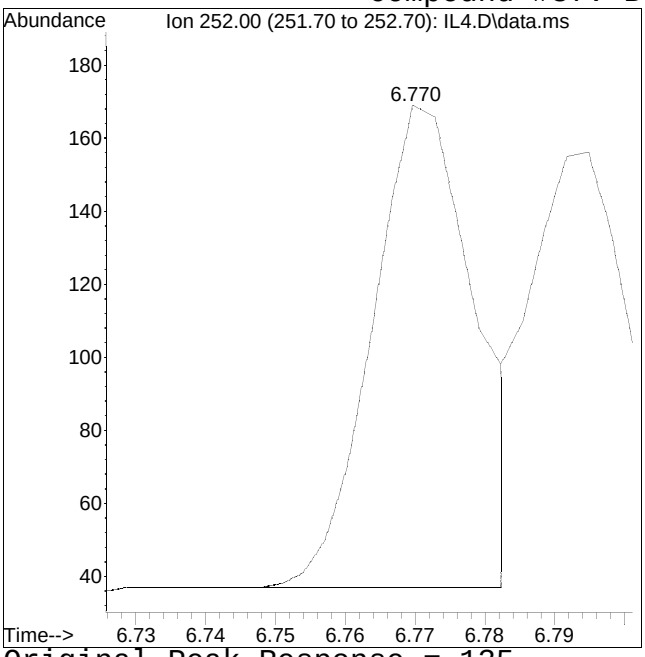
Original Peak Response = 45 Manual Peak Response = 45 M7

M7 = A qualifier ion was manually integrated (only for GC/MS data).

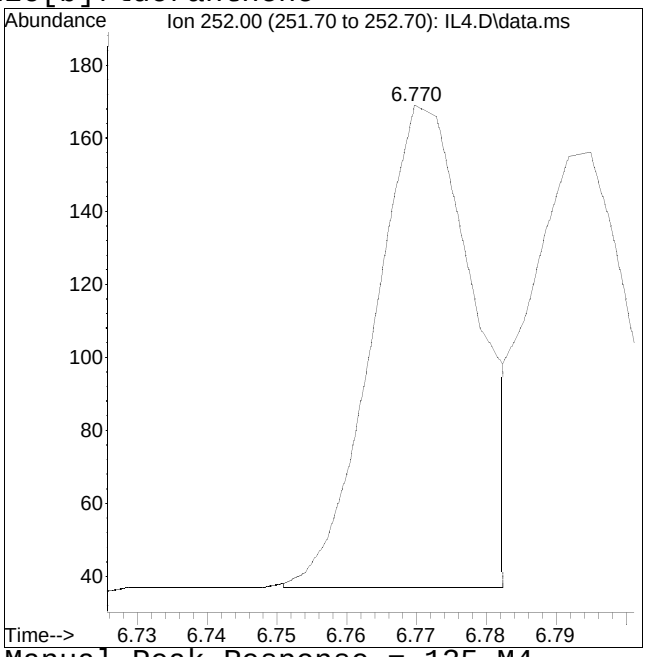
Manual Integration Report

Data Path : I:\8270SIM\SV128\231211LVIQMethod : SIM-LVI_231211_sv128.M
Data File : IL4.D Operator : SV128:dv
Date Inj'd : 12/11/2023 3:06 pm Instrument : SV128
Sample : IL4,32,, 0.05 Lot#10232 Quant Date : 12/15/2023 2:39 pm

Compound #37: Benzo[b]fluoranthene



Original Peak Response = 135



Manual Peak Response = 135 M4

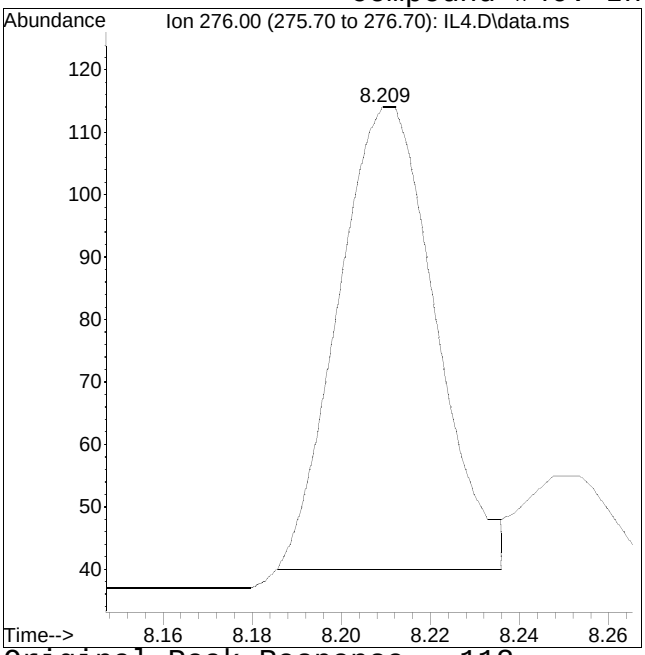
M4 = Poor automated baseline construction.

Manual Integration Report

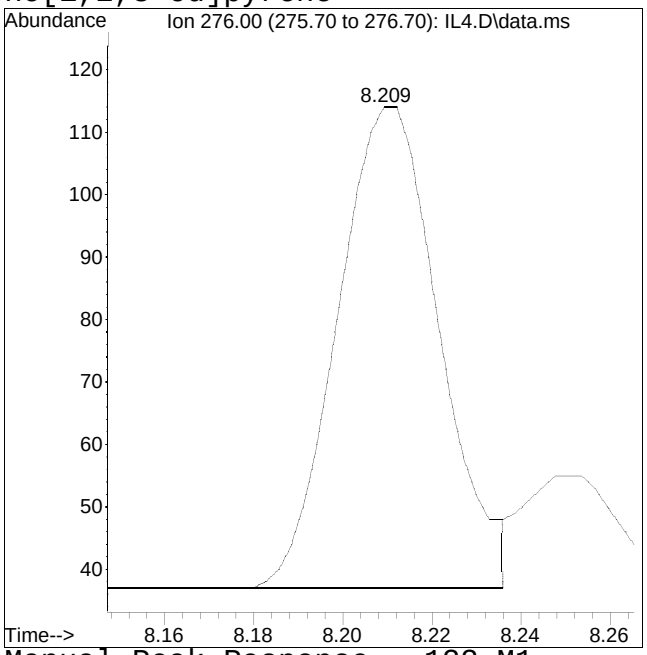
Data Path : I:\8270SIM\SV128\231211LVIQ
Data File : IL4.D
Date Inj'd : 12/11/2023 3:06 pm
Sample : IL4,32,, 0.05 Lot#10232

Method : SIM-LVI_231211_sv128.M
Operator : SV128:dv
Instrument : SV128
Quant Date : 12/15/2023 2:39 pm

Compound #40: Indeno[1,2,3-cd]pyrene



Original Peak Response = 112



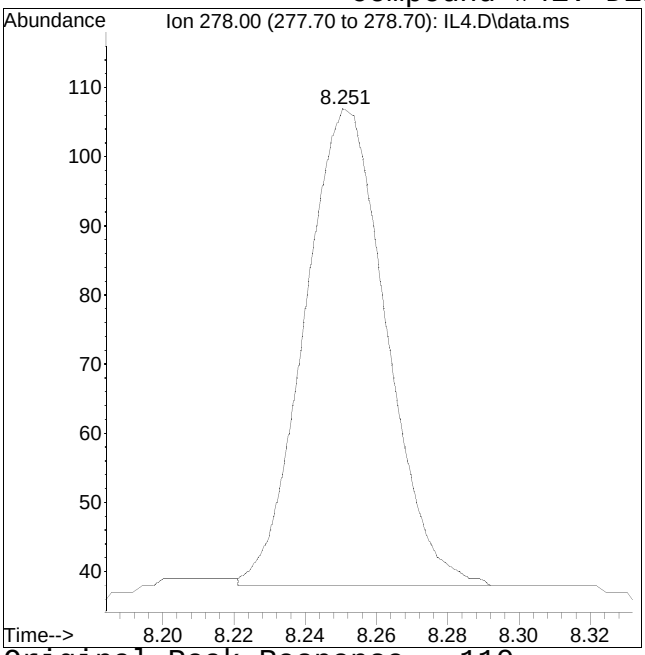
Manual Peak Response = 122 M1

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

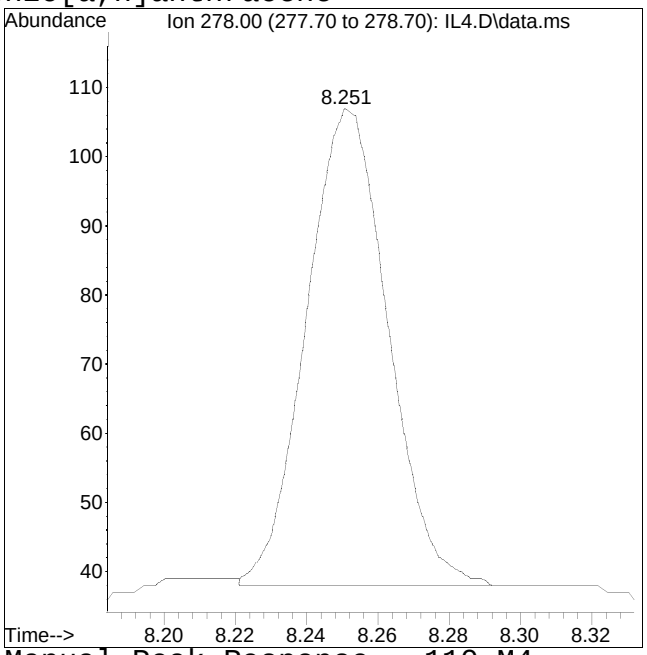
Manual Integration Report

Data Path : I:\8270SIM\SV128\231211LVIQMethod : SIM-LVI_231211_sv128.M
Data File : IL4.D Operator : SV128:dv
Date Inj'd : 12/11/2023 3:06 pm Instrument : SV128
Sample : IL4,32,, 0.05 Lot#10232 Quant Date : 12/15/2023 2:39 pm

Compound #41: Dibenzo[a,h]anthracene



Original Peak Response = 110



Manual Peak Response = 110 M4

M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV128\231211LVIical\
Data File : IL3.D
Acq On : 11 Dec 2023 03:23 pm
Operator : SV128:dv
Sample : IL3,32,, 0.025 Lot#10233
Misc : WG1864557,,ical
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Dec 15 14:43:54 2023
Quant Method : I:\8270SIM\SV128\231211LVIical\SIM-LVI_231211_sv128.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Dec 15 14:42:17 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\SV128\231211LVIical\IL7.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.014	152	3217	4000.000	ng/ml	0.00
Standard Area 1 = 2982			Recovery = 107.88%			
8) Naphthalene-d8	2.672	136	11081	4000.000	ng/ml	0.00
Standard Area 1 = 10566			Recovery = 104.87%			
17) Acenaphthene-d10	3.643	164	6028	4000.000	ng/ml	0.00
Standard Area 1 = 6070			Recovery = 99.31%			
22) Phenanthrene-d10	4.484	188	12310	4000.000	ng/ml	0.00
Standard Area 1 = 13526			Recovery = 91.01%			
31) Chrysene-d12	6.019	240	9868	4000.000	ng/ml	0.00
Standard Area 1 = 12766			Recovery = 77.30%			
36) Perylene-d12	7.101	264	11715	4000.000	ng/ml	0.00
Standard Area 1 = 15405			Recovery = 76.05%			
System Monitoring Compounds						
2) 2-Fluorophenol	1.427	112	20	24.688	ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 0.49%#			
3) Phenol-d6	1.835	99	23M6	24.294	ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 0.49%#			
7) Nitrobenzene-d5	2.299	82	18	23.526	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 0.94%#			
13) 2-Fluorobiphenyl	3.270	172	59	25.107	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 1.00%#			
21) 2,4,6-Tribromophenol	4.089	330	7M7	23.238	ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 0.46%#			
30) 4-Terphenyl-d14	5.420	244	64	24.955	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 1.00%#			
Target Compounds						Qvalue
4) Bis(2-chloroethyl)ether	1.888	93	20M6	24.735	ng/ml	
5) n-nitrosodi-n-propylamine	2.226	70	13M2	23.031	ng/ml	
6) Hexachloroethane	2.271	117	9	23.425	ng/ml	93
9) Naphthalene	2.684	128	72M7	25.338	ng/ml	
10) Hexachlorobutadiene	2.760	225	17M7	26.116	ng/ml	
11) 2-Methylnaphthalene	3.063	142	44M7	24.239	ng/ml	
12) 1-Methylnaphthalene	3.118	142	42	24.569	ng/ml	98
14) 2-Chloronaphthalene	3.331	162	50	25.301	ng/ml	94
15) 2,6-Dinitrotoluene	0.000		0	N.D.	d	

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV128\231211LVIical\
Data File : IL3.D
Acq On : 11 Dec 2023 03:23 pm
Operator : SV128:dv
Sample : IL3,32,, 0.025 Lot#10233
Misc : WG1864557,,ical
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Dec 15 14:43:54 2023
Quant Method : I:\8270SIM\SV128\231211LVIical\SIM-LVI_231211_sv128.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Dec 15 14:42:17 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\SV128\231211LVIical\IL7.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
16) Acenaphthylene	3.561	152	69	23.570	ng/ml	97
18) Acenaphthene	3.661	153	51M6	25.028	ng/ml	
19) 2,4-Dinitrotoluene	0.000		0	N.D.	d	
20) Fluorene	3.952	166	49	23.826	ng/ml	85
23) 4,6-Dinitro-o-cresol	0.000		0	N.D.	d	
24) Hexachlorobenzene	4.271	284	20M6	24.416	ng/ml	
25) Pentachlorophenol	4.384	266	5M2	30.617	ng/ml	
26) Phenanthrene	4.499	178	86M6	25.835	ng/ml	
27) Anthracene	4.529	178	79M4	24.561	ng/ml	
28) Fluoranthene	5.184	202	87M7	23.789	ng/ml	
29) Pyrene	5.312	202	89	23.521	ng/ml	97
32) Benzo[a]anthracene	6.014	228	111	27.834	ng/ml	92
33) 3,3'-Dichlorobenzidine	0.000		0	N.D.	d	
34) Chrysene	6.036	228	88	25.867	ng/ml	98
35) Bis(2-ethylhexyl)phtha...	0.000		0	N.D.	d	
37) Benzo[b]fluoranthene	6.771	252	86M6	23.705	ng/ml	
38) Benzo[k]fluoranthene	6.793	252	75	22.215	ng/ml	97
39) Benzo[a]pyrene	7.044	252	74	23.163	ng/ml	97
40) Indeno[1,2,3-cd]pyrene	8.207	276	82M1	25.670	ng/ml	
41) Dibenzo[a,h]anthracene	8.251	278	74	23.851	ng/ml	96
42) Benzo[g,h,i]perylene	8.517	276	84	25.298	ng/ml	93

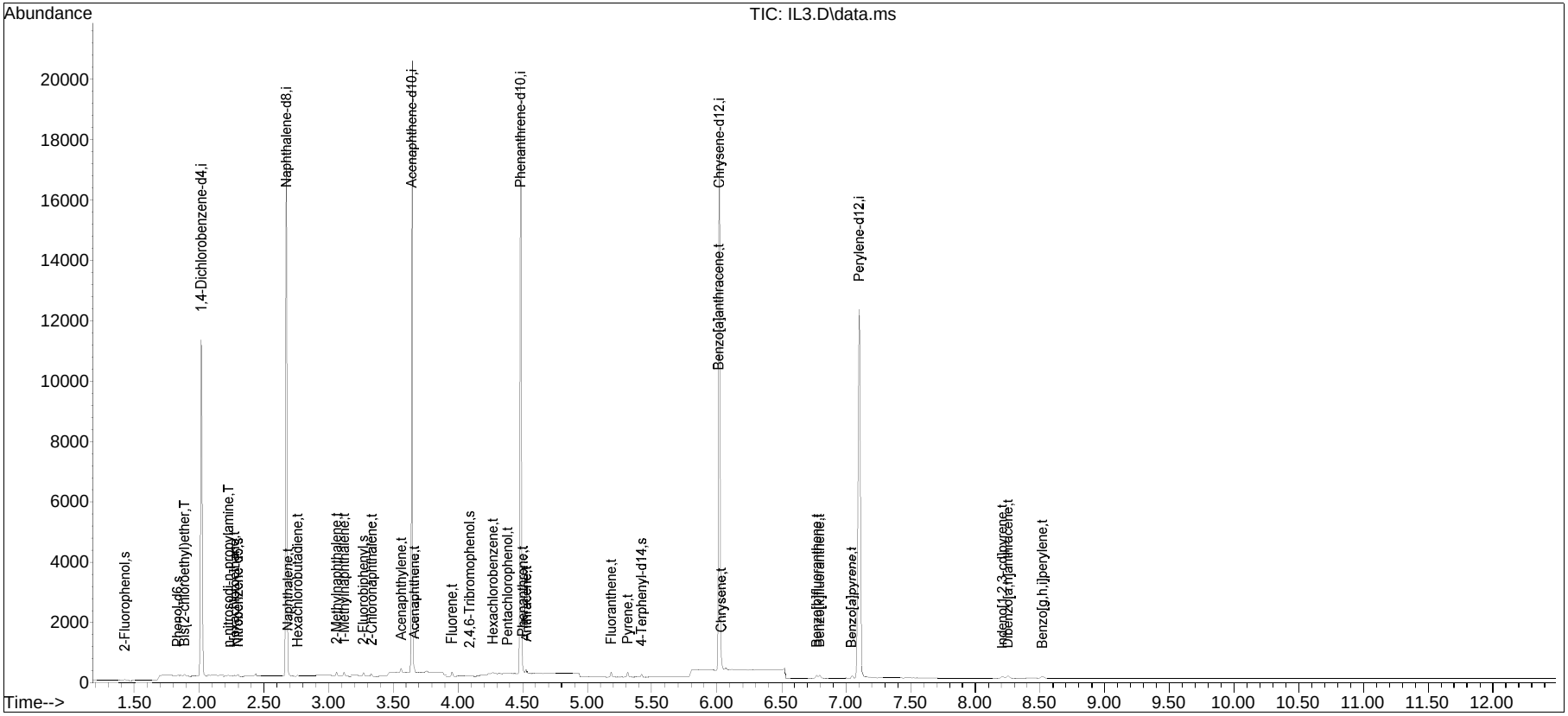
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV128\231211LVIical\
Data File : IL3.D
Acq On : 11 Dec 2023 03:23 pm
Operator : SV128:dv
Sample : IL3,32,, 0.025 Lot#10233
Misc : WG1864557,,ical
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Dec 15 14:43:54 2023
Quant Method : I:\8270SIM\SV128\231211LVIical\SIM-LVI_231211_sv128.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Dec 15 14:42:17 2023
Response via : Initial Calibration

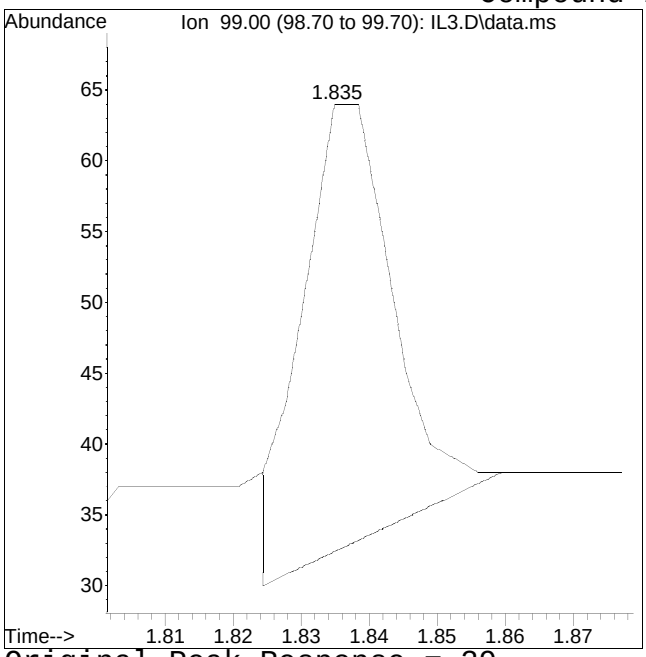
Sub List : Default - All compounds listedical\IL7.D•



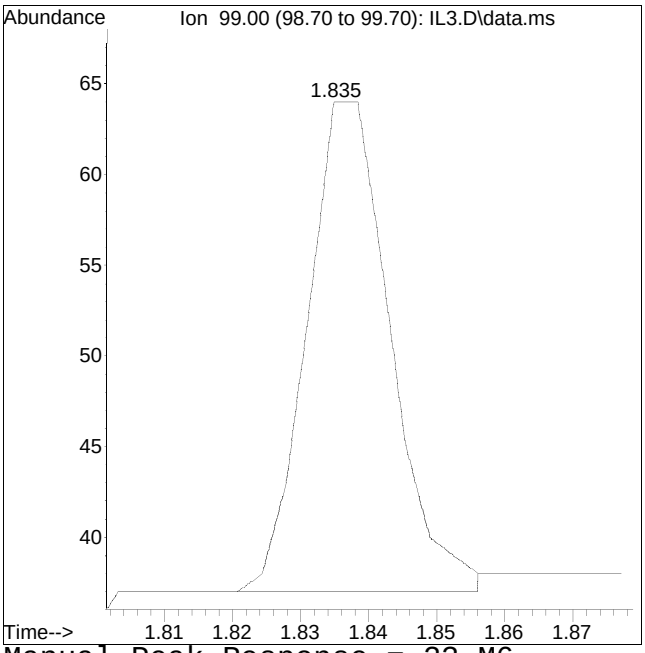
Manual Integration Report

Data Path : I:\8270SIM\SV128\231211LVIQ
Data File : IL3.D
Date Inj'd : 12/11/2023 3:23 pm
Sample : IL3,32,, 0.025 Lot#10233
Method : SIM-LVI_231211_sv128.M
Operator : SV128:dv
Instrument : SV128
Quant Date : 12/15/2023 2:42 pm

Compound #3: Phenol-d6



Original Peak Response = 29



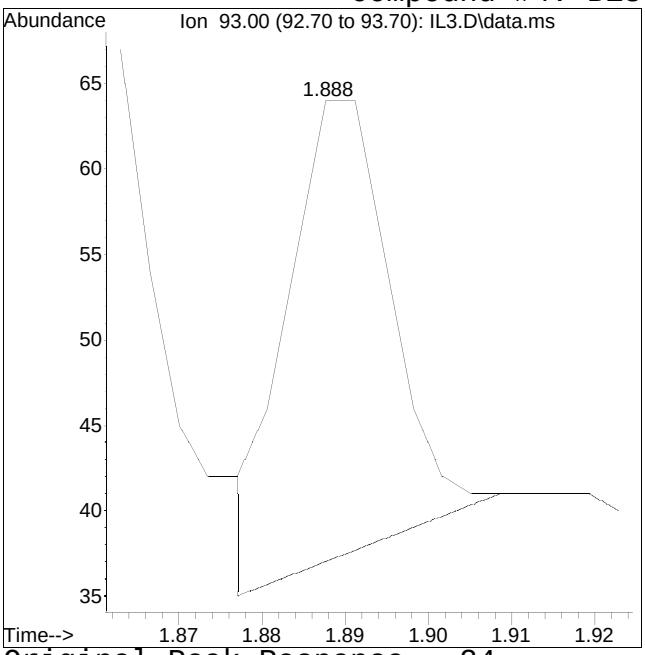
Manual Peak Response = 23 M6

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

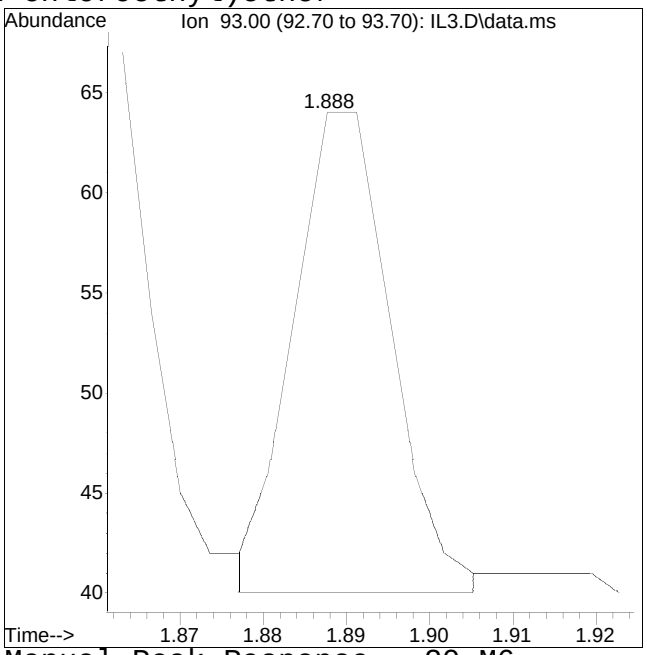
Manual Integration Report

Data Path : I:\8270SIM\SV128\231211LVIQMethod : SIM-LVI_231211_sv128.M
Data File : IL3.D Operator : SV128:dv
Date Inj'd : 12/11/2023 3:23 pm Instrument : SV128
Sample : IL3,32,, 0.025 Lot#10233 Quant Date : 12/15/2023 2:42 pm

Compound #4: Bis(2-chloroethyl)ether



Original Peak Response = 24



Manual Peak Response = 20 M6

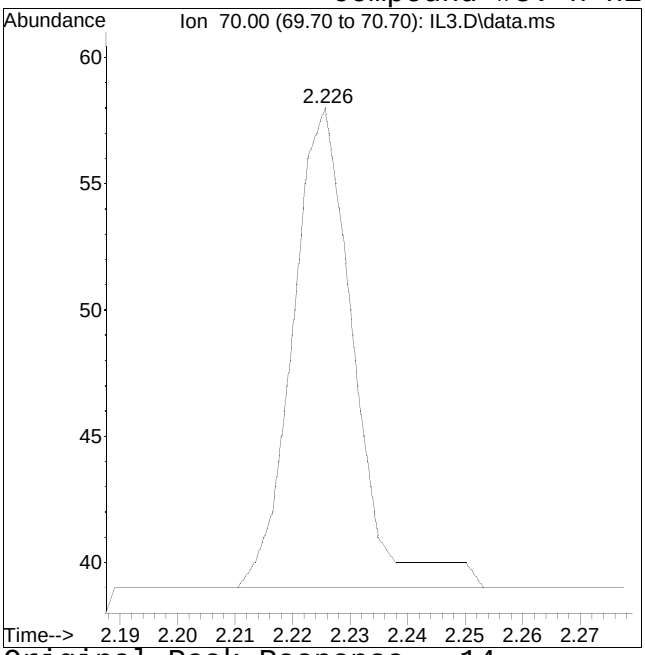
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

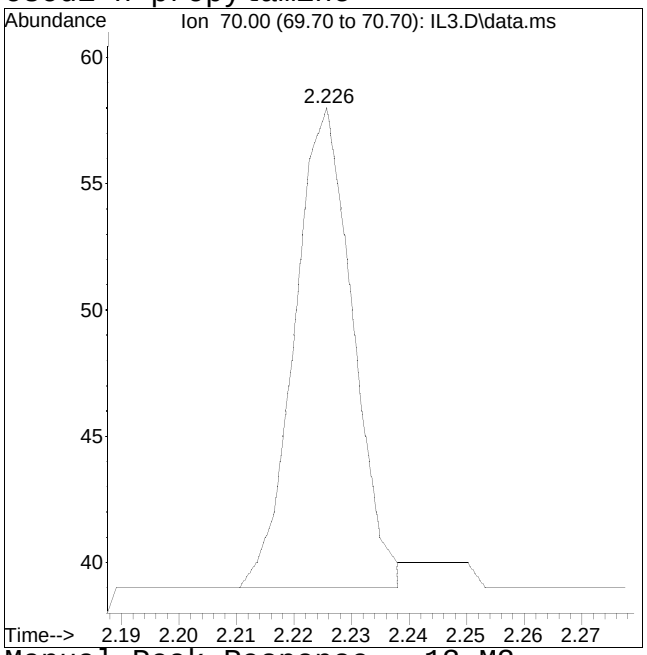
Data Path : I:\8270SIM\SV128\231211LVIQ
Data File : IL3.D
Date Inj'd : 12/11/2023 3:23 pm
Sample : IL3,32,, 0.025 Lot#10233

Method : SIM-LVI_231211_sv128.M
Operator : SV128:dv
Instrument : SV128
Quant Date : 12/15/2023 2:42 pm

Compound #5: n-nitrosodi-n-propylamine



Original Peak Response = 14



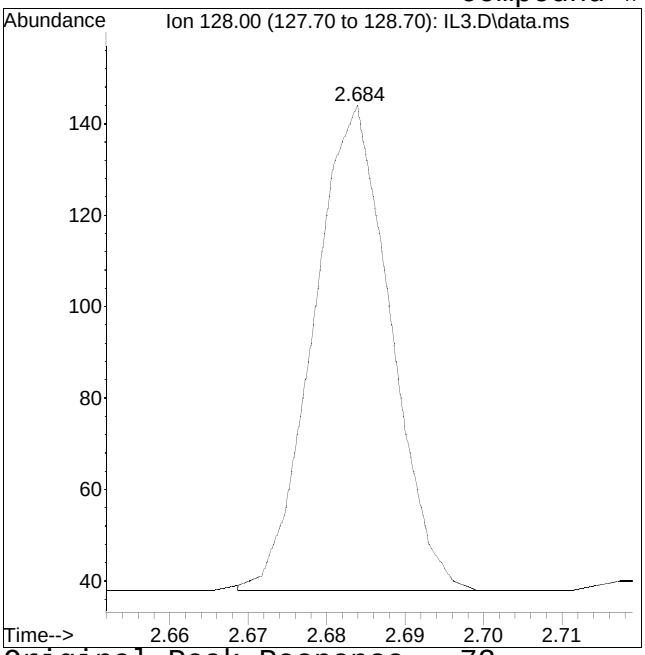
Manual Peak Response = 13 M2

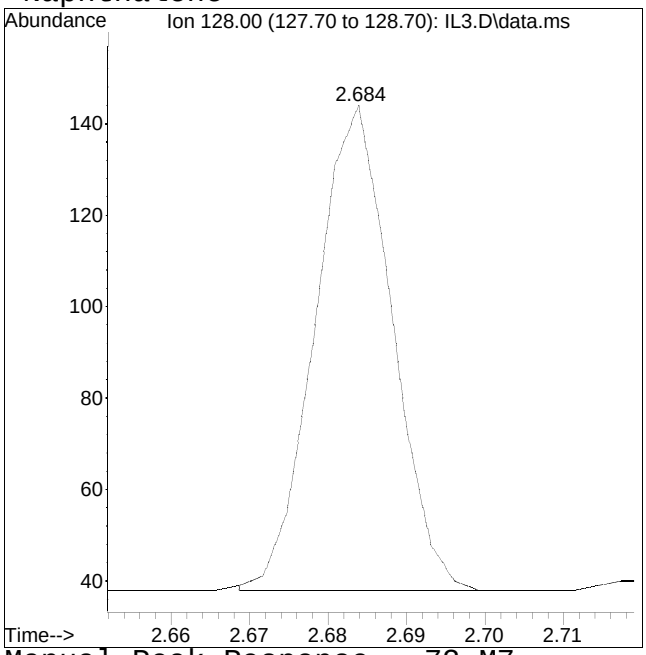
M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

Data Path : I:\8270SIM\SV128\231211LVIQ
Data File : IL3.D
Date Inj'd : 12/11/2023 3:23 pm
Sample : IL3,32,, 0.025 Lot#10233
Method : SIM-LVI_231211_sv128.M
Operator : SV128:dv
Instrument : SV128
Quant Date : 12/15/2023 2:42 pm

Compound #9: Naphthalene





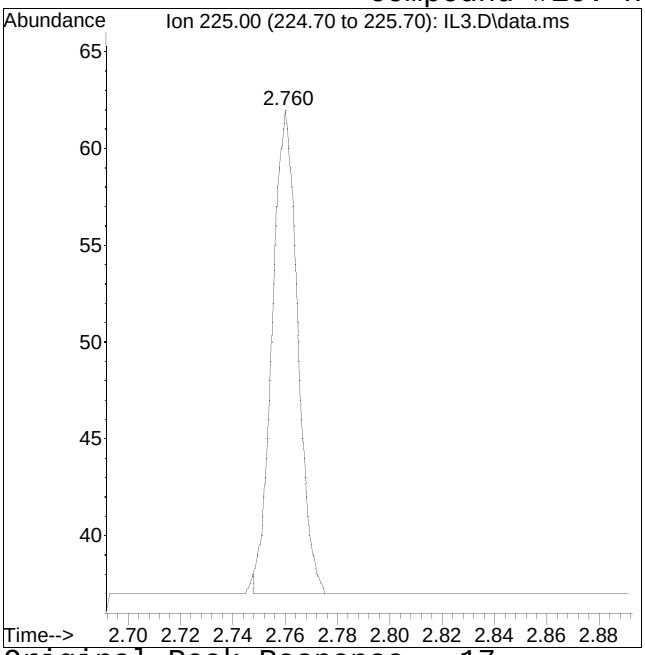
Original Peak Response = 72
Manual Peak Response = 72 M7
M7 = A qualifier ion was manually integrated (only for GC/MS data).

Manual Integration Report

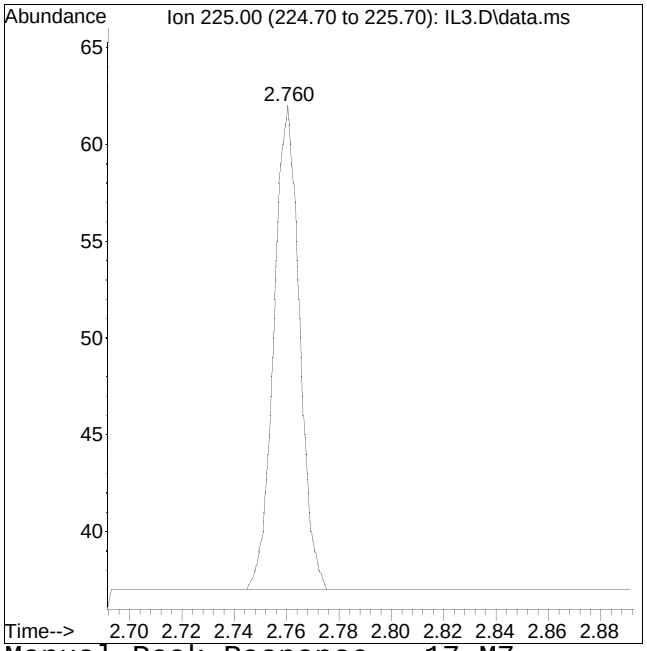
Data Path : I:\8270SIM\SV128\231211LVIQ
Data File : IL3.D
Date Inj'd : 12/11/2023 3:23 pm
Sample : IL3,32,, 0.025 Lot#10233

Method : SIM-LVI_231211_sv128.M
Operator : SV128:dv
Instrument : SV128
Quant Date : 12/15/2023 2:42 pm

Compound #10: Hexachlorobutadiene



Original Peak Response = 17



Manual Peak Response = 17 M7

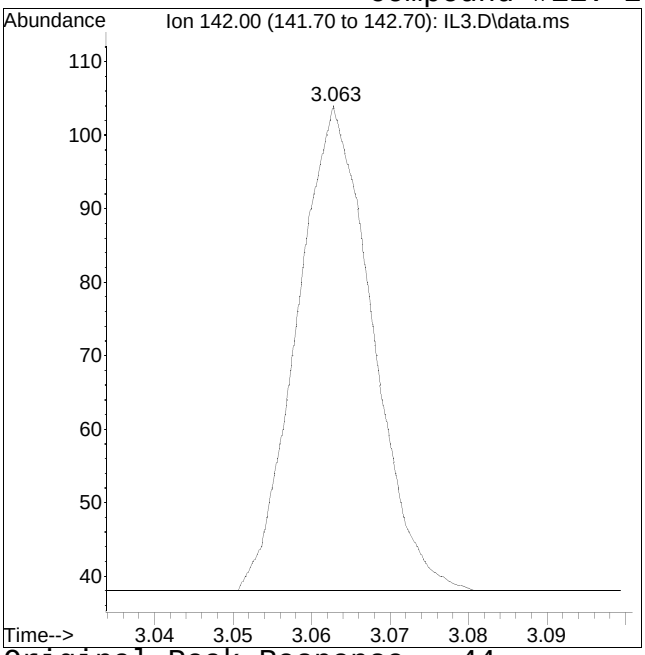
M7 = A qualifier ion was manually integrated (only for GC/MS data).

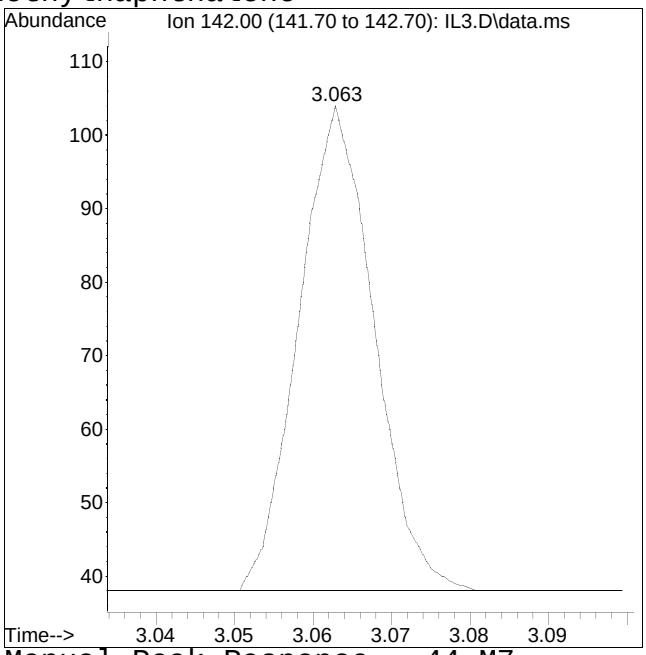
Manual Integration Report

Data Path : I:\8270SIM\SV128\231211LVIQ
Data File : IL3.D
Date Inj'd : 12/11/2023 3:23 pm
Sample : IL3,32,, 0.025 Lot#10233

Method : SIM-LVI_231211_sv128.M
Operator : SV128:dv
Instrument : SV128
Quant Date : 12/15/2023 2:42 pm

Compound #11: 2-Methylnaphthalene



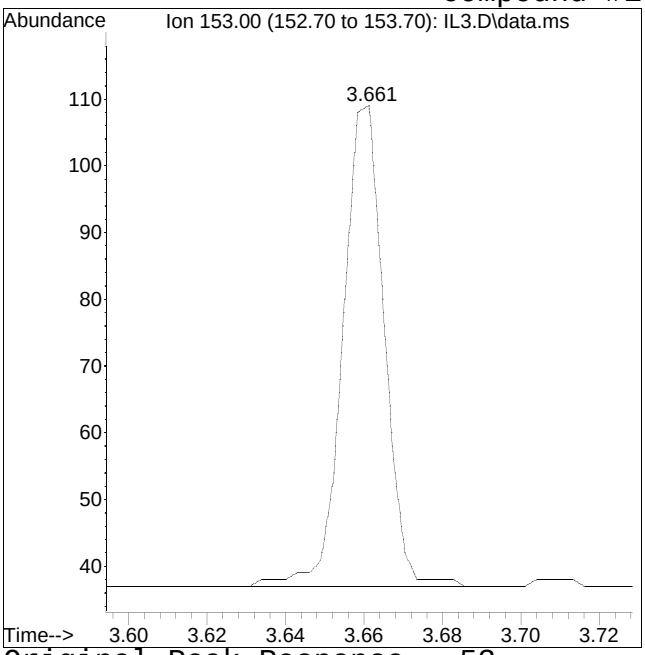


Original Peak Response = 44
Manual Peak Response = 44 M7
M7 = A qualifier ion was manually integrated (only for GC/MS data).

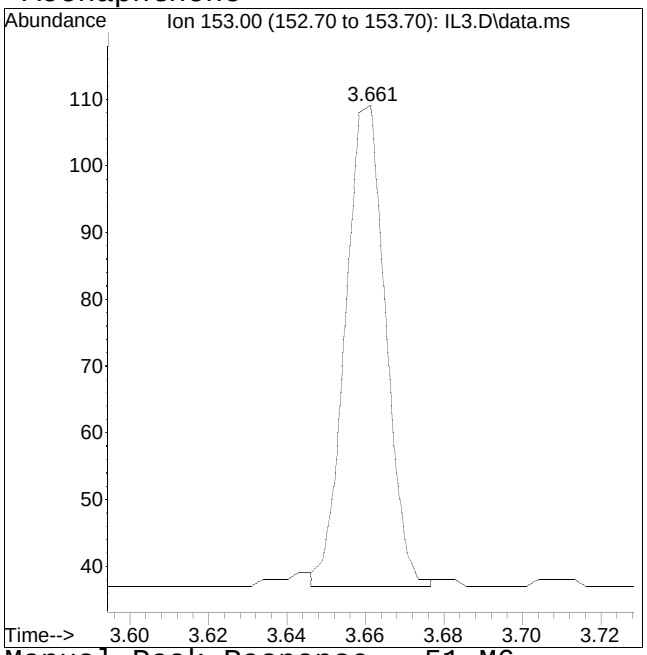
Manual Integration Report

Data Path : I:\8270SIM\SV128\231211LVIQMethod : SIM-LVI_231211_sv128.M
Data File : IL3.D Operator : SV128:dv
Date Inj'd : 12/11/2023 3:23 pm Instrument : SV128
Sample : IL3,32,, 0.025 Lot#10233 Quant Date : 12/15/2023 2:42 pm

Compound #18: Acenaphthene



Original Peak Response = 53



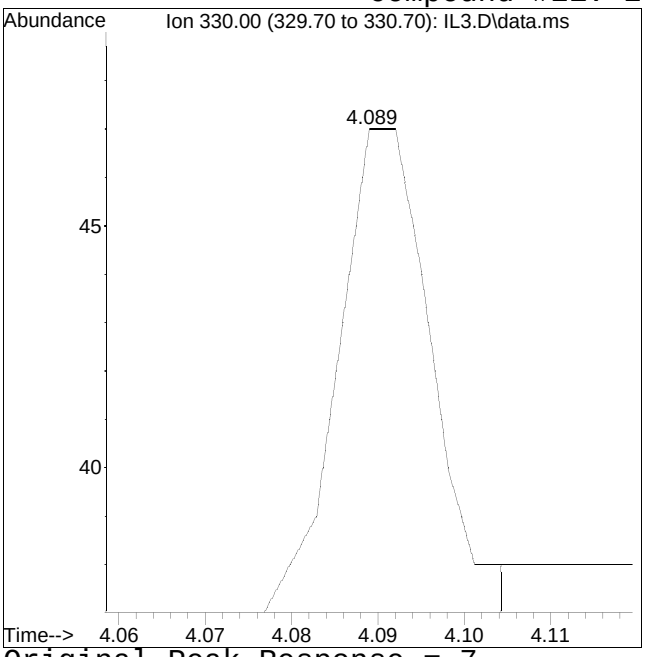
Manual Peak Response = 51 M6

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

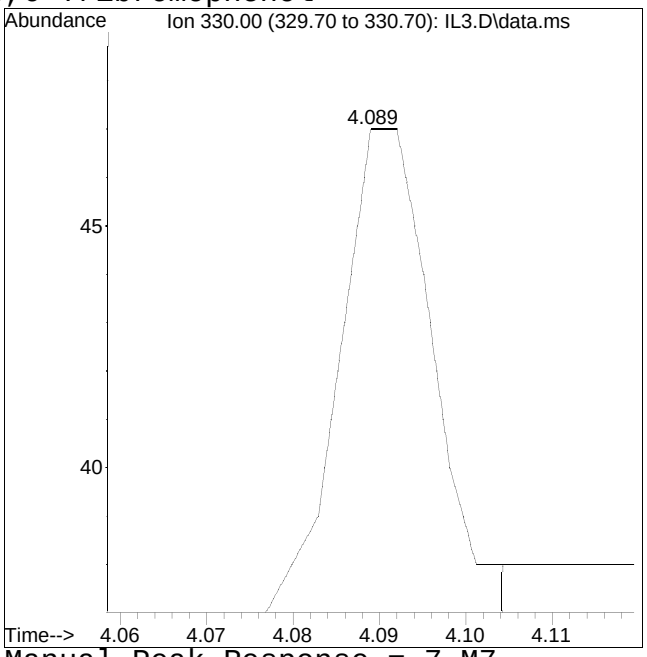
Manual Integration Report

Data Path : I:\8270SIM\SV128\231211LVIQMethod : SIM-LVI_231211_sv128.M
Data File : IL3.D Operator : SV128:dv
Date Inj'd : 12/11/2023 3:23 pm Instrument : SV128
Sample : IL3,32,, 0.025 Lot#10233 Quant Date : 12/15/2023 2:42 pm

Compound #21: 2,4,6-Tribromophenol



Original Peak Response = 7



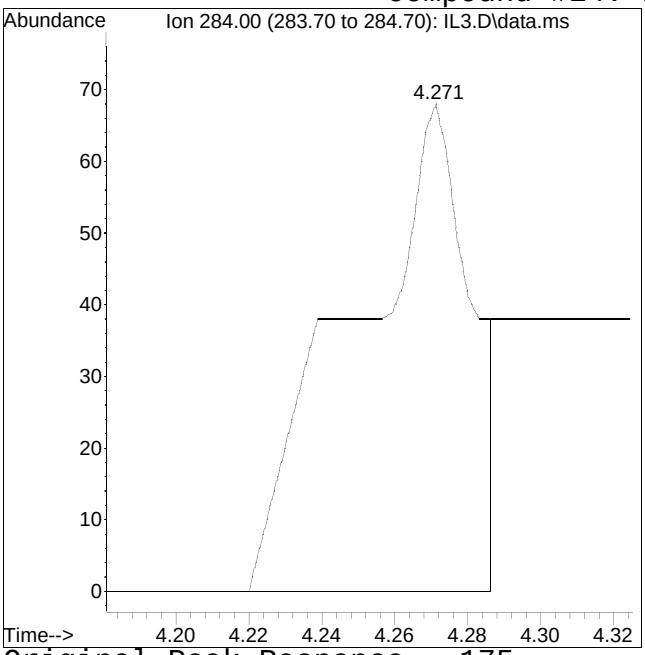
Manual Peak Response = 7 M7

M7 = A qualifier ion was manually integrated (only for GC/MS data).

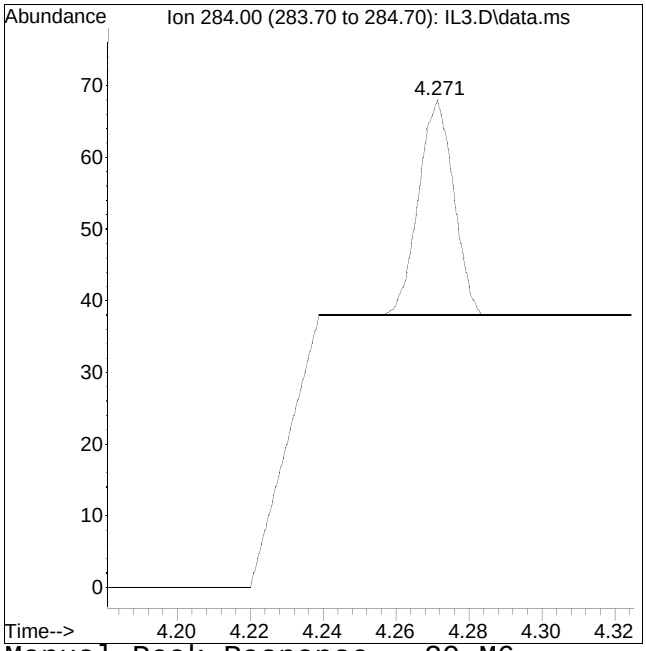
Manual Integration Report

Data Path : I:\8270SIM\SV128\231211LVIQMethod : SIM-LVI_231211_sv128.M
Data File : IL3.D Operator : SV128:dv
Date Inj'd : 12/11/2023 3:23 pm Instrument : SV128
Sample : IL3,32,, 0.025 Lot#10233 Quant Date : 12/15/2023 2:42 pm

Compound #24: Hexachlorobenzene



Original Peak Response = 175



Manual Peak Response = 20 M6

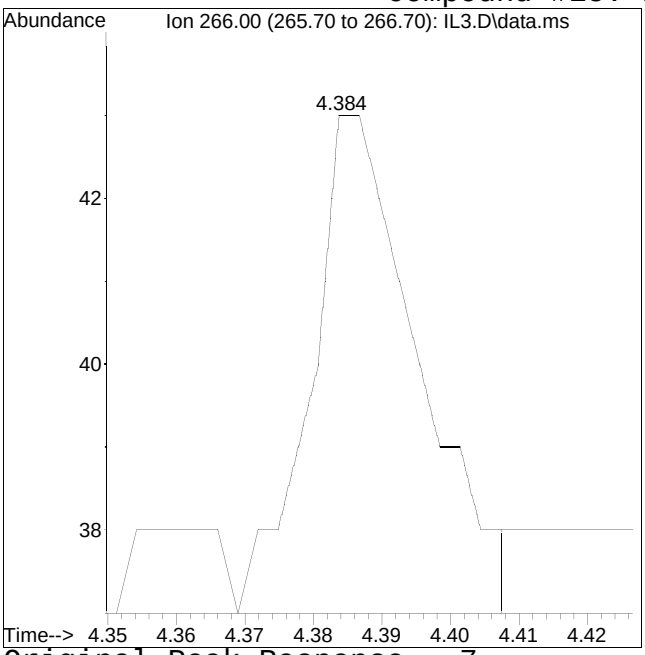
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

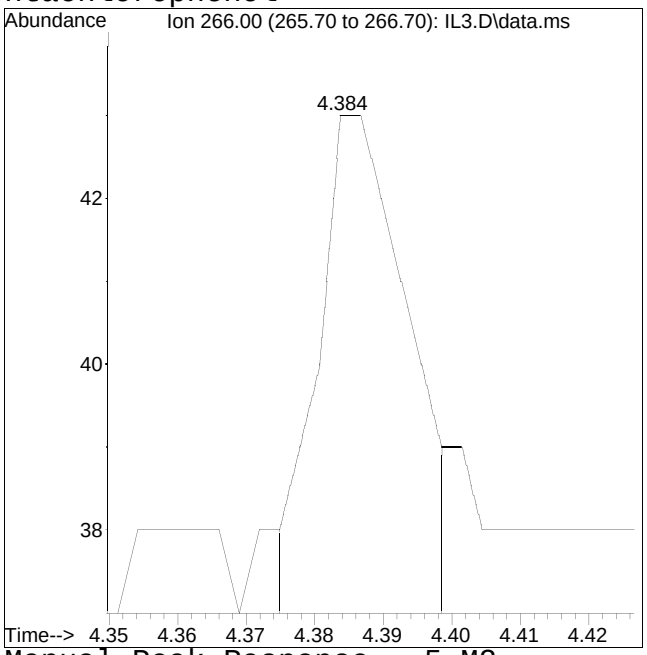
Data Path : I:\8270SIM\SV128\231211LVIQ
Data File : IL3.D
Date Inj'd : 12/11/2023 3:23 pm
Sample : IL3,32,, 0.025 Lot#10233

Method : SIM-LVI_231211_sv128.M
Operator : SV128:dv
Instrument : SV128
Quant Date : 12/15/2023 2:42 pm

Compound #25: Pentachlorophenol



Original Peak Response = 7



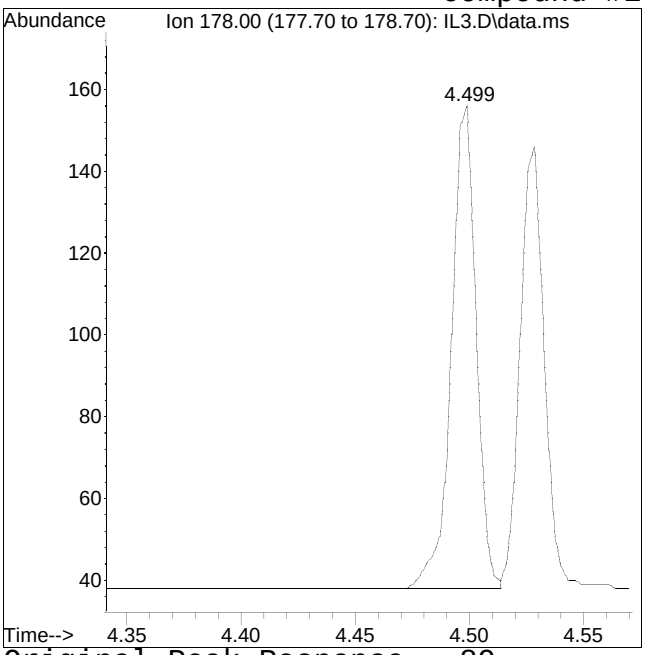
Manual Peak Response = 5 M2

M2 = Peak not found by automatic integration algorithm.

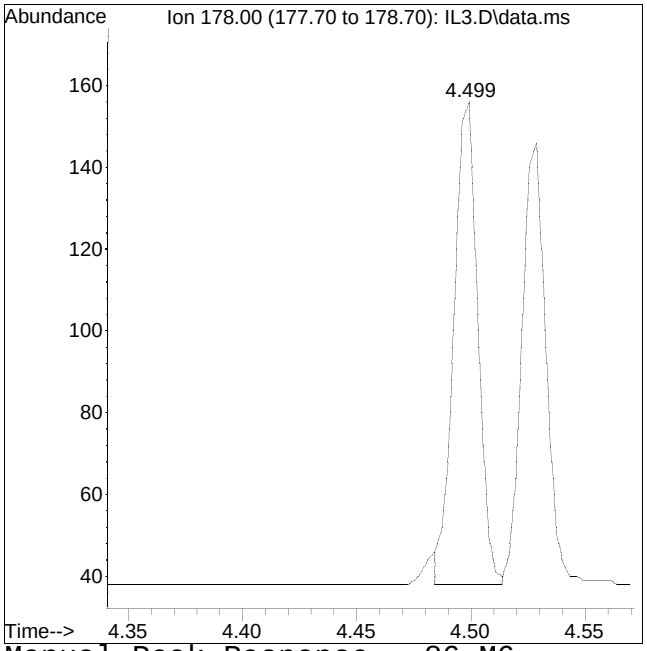
Manual Integration Report

Data Path : I:\8270SIM\SV128\231211LVIQMethod : SIM-LVI_231211_sv128.M
Data File : IL3.D Operator : SV128:dv
Date Inj'd : 12/11/2023 3:23 pm Instrument : SV128
Sample : IL3,32,, 0.025 Lot#10233 Quant Date : 12/15/2023 2:42 pm

Compound #26: Phenanthrene



Original Peak Response = 89



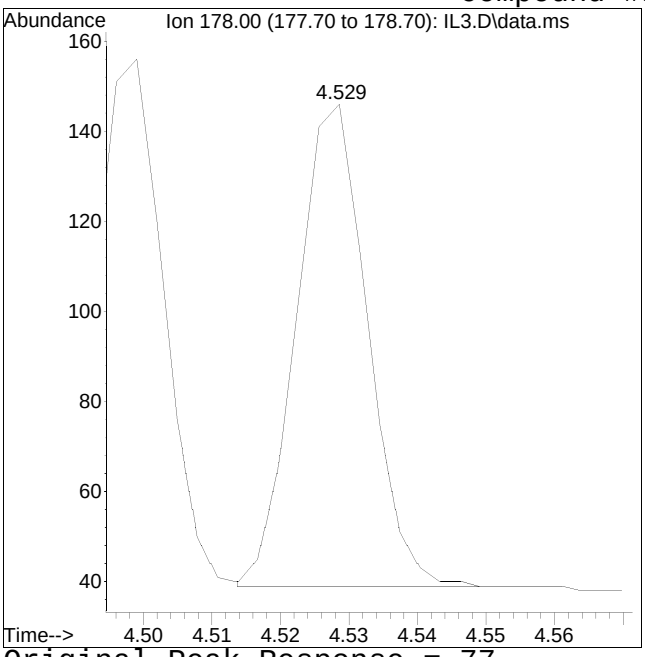
Manual Peak Response = 86 M6

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

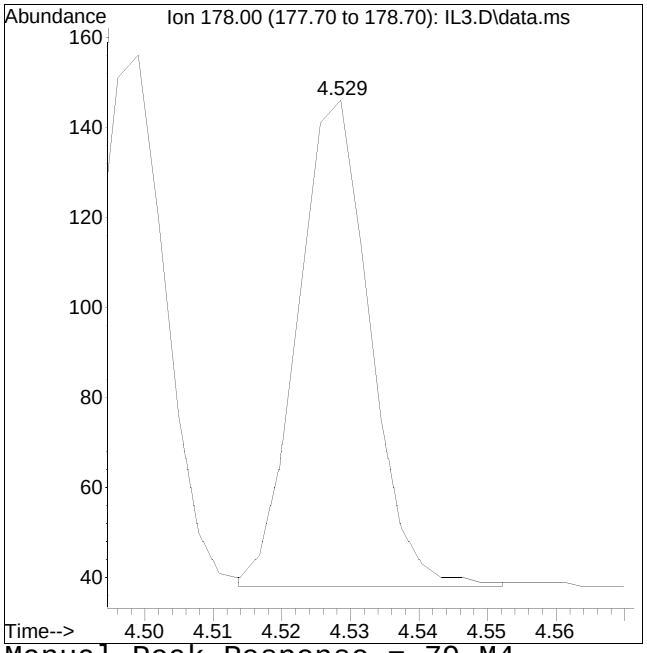
Manual Integration Report

Data Path : I:\8270SIM\SV128\231211LVIQMethod : SIM-LVI_231211_sv128.M
Data File : IL3.D Operator : SV128:dv
Date Inj'd : 12/11/2023 3:23 pm Instrument : SV128
Sample : IL3,32,, 0.025 Lot#10233 Quant Date : 12/15/2023 2:42 pm

Compound #27: Anthracene



Original Peak Response = 77



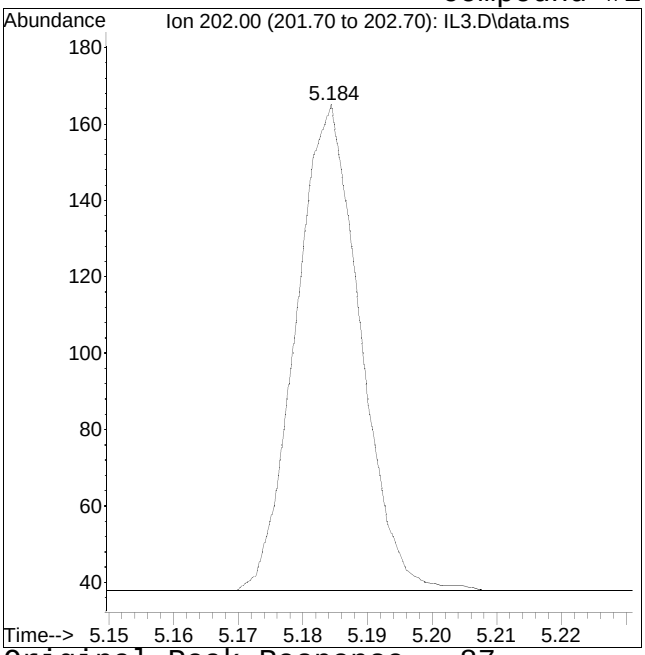
Manual Peak Response = 79 M4

M4 = Poor automated baseline construction.

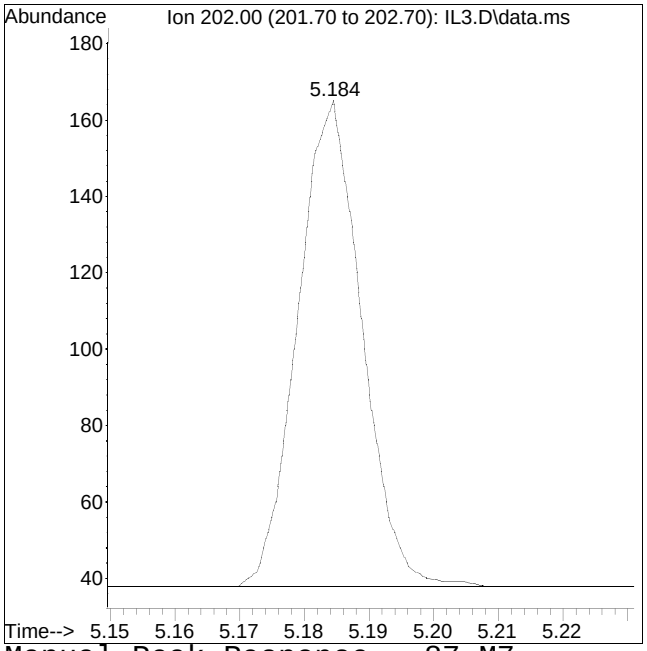
Manual Integration Report

Data Path : I:\8270SIM\SV128\231211LVIQ
Data File : IL3.D
Date Inj'd : 12/11/2023 3:23 pm
Sample : IL3,32,, 0.025 Lot#10233
Method : SIM-LVI_231211_sv128.M
Operator : SV128:dv
Instrument : SV128
Quant Date : 12/15/2023 2:42 pm

Compound #28: Fluoranthene



Original Peak Response = 87

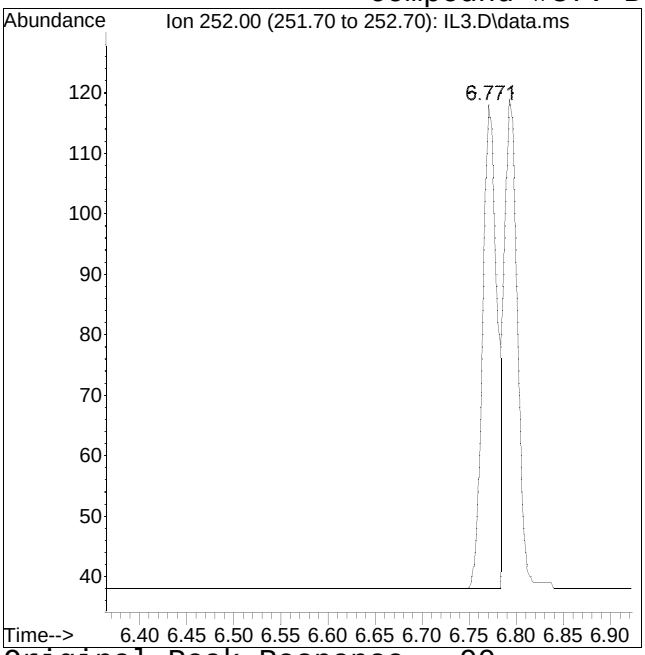


Manual Peak Response = 87 M7

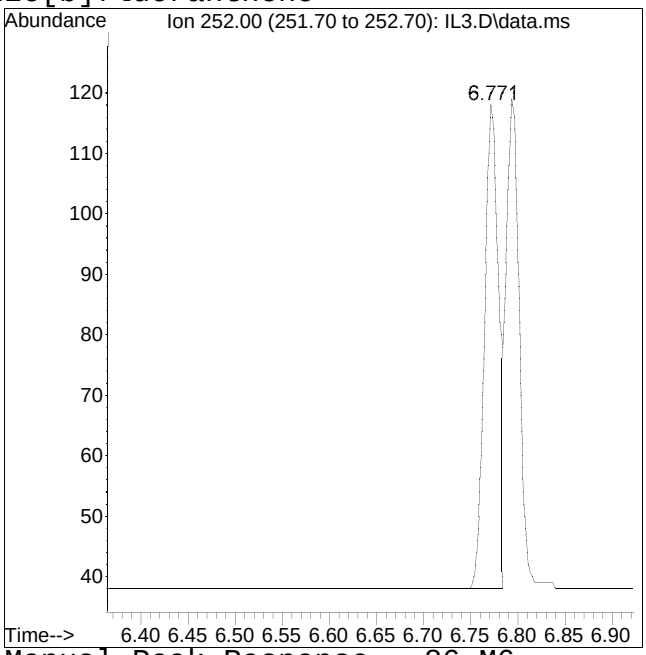
M7 = A qualifier ion was manually integrated (only for GC/MS data).

Data Path : I:\8270SIM\SV128\231211LVIQMethod : SIM-LVI_231211_sv128.M
Data File : IL3.D Operator : SV128:dv
Date Inj'd : 12/11/2023 3:23 pm Instrument : SV128
Sample : IL3,32,, 0.025 Lot#10233 Quant Date : 12/15/2023 2:42 pm

Compound #37: Benzo[b]fluoranthene



Original Peak Response = 90



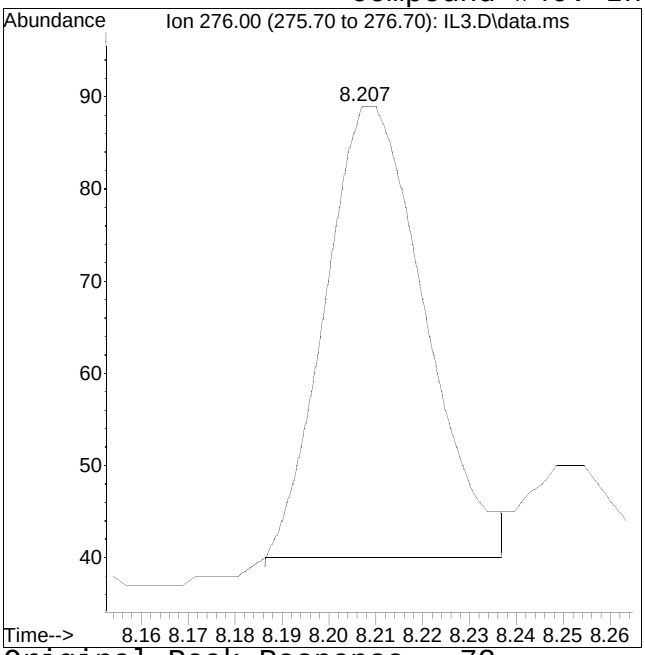
Manual Peak Response = 86 M6

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

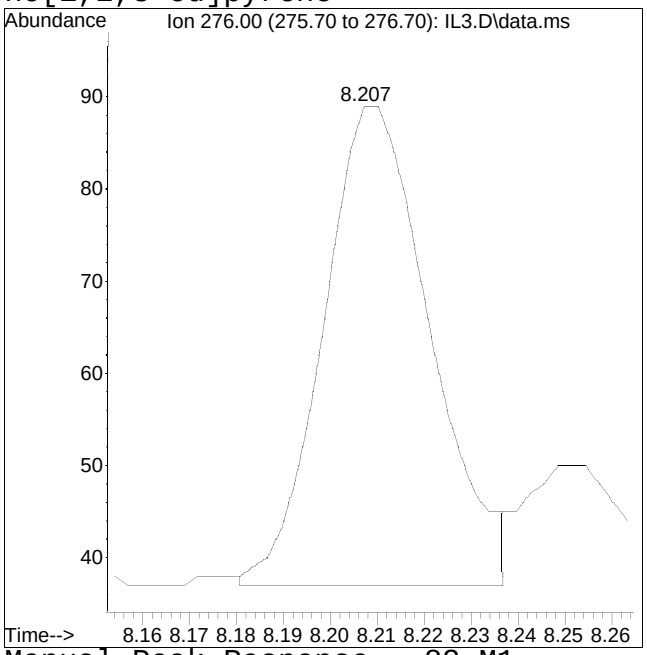
Manual Integration Report

Data Path : I:\8270SIM\SV128\231211LVIQMethod : SIM-LVI_231211_sv128.M
Data File : IL3.D Operator : SV128:dv
Date Inj'd : 12/11/2023 3:23 pm Instrument : SV128
Sample : IL3,32,, 0.025 Lot#10233 Quant Date : 12/15/2023 2:42 pm

Compound #40: Indeno[1,2,3-cd]pyrene



Original Peak Response = 72



Manual Peak Response = 82 M1

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV128\231211LVIical\
Data File : IL2.D
Acq On : 11 Dec 2023 03:40 pm
Operator : SV128:dv
Sample : IL2,32,, 0.01 Lot#10234
Misc : WG1864557,,ical
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Dec 15 14:48:57 2023
Quant Method : I:\8270SIM\SV128\231211LVIical\SIM-LVI_231211_sv128.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Dec 15 14:46:36 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\SV128\231211LVIical\IL7.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.016	152	3426	4000.000	ng/ml	0.00
Standard Area 1 = 2982			Recovery = 114.89%			
8) Naphthalene-d8	2.673	136	11890	4000.000	ng/ml	0.00
Standard Area 1 = 10566			Recovery = 112.53%			
17) Acenaphthene-d10	3.641	164	6567	4000.000	ng/ml	0.00
Standard Area 1 = 6070			Recovery = 108.19%			
22) Phenanthrene-d10	4.485	188	13551	4000.000	ng/ml	0.00
Standard Area 1 = 13526			Recovery = 100.18%			
31) Chrysene-d12	6.023	240	11409	4000.000	ng/ml	0.00
Standard Area 1 = 12766			Recovery = 89.37%			
36) Perylene-d12	7.115	264	13573	4000.000	ng/ml	0.01
Standard Area 1 = 15405			Recovery = 88.11%			
System Monitoring Compounds						
2) 2-Fluorophenol	1.424	112	7M7	8.114	ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 0.16%#			
3) Phenol-d6	1.837	99	9M6	8.926	ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 0.18%#			
7) Nitrobenzene-d5	2.297	82	7	8.591	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 0.34%#			
13) 2-Fluorobiphenyl	3.271	172	24M6	9.518	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 0.38%#			
21) 2,4,6-Tribromophenol	0.000	330	0	0.000	ng/ml	
Spiked Amount 5000.000	Range 15 - 110		Recovery = 0.00%#			
30) 4-Terphenyl-d14	5.421	244	30M7	10.626	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 0.43%#			
Target Compounds						Qvalue
4) Bis(2-chloroethyl)ether	1.890	93	8M4	9.290	ng/ml	
5) n-nitrosodi-n-propylamine	2.224	70	6M7	9.981	ng/ml	
6) Hexachloroethane	0.000		0	N.D.	d	
9) Naphthalene	2.682	128	30M6	9.839	ng/ml	
10) Hexachlorobutadiene	0.000		0	N.D.		
11) 2-Methylnaphthalene	3.064	142	18M6	9.241	ng/ml	
12) 1-Methylnaphthalene	3.116	142	18	9.813	ng/ml	97

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV128\231211LVIical\
Data File : IL2.D
Acq On : 11 Dec 2023 03:40 pm
Operator : SV128:dv
Sample : IL2,32,, 0.01 Lot#10234
Misc : WG1864557,,ical
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Dec 15 14:48:57 2023
Quant Method : I:\8270SIM\SV128\231211LVIical\SIM-LVI_231211_sv128.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Dec 15 14:46:36 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\SV128\231211LVIical\IL7.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
14) 2-Chloronaphthalene	3.332	162	20M6	9.432	ng/ml	
15) 2,6-Dinitrotoluene	0.000		0	N.D.	d	
16) Acenaphthylene	3.562	152	29M7	9.232	ng/ml	
18) Acenaphthene	3.659	153	22M6	9.910	ng/ml	
19) 2,4-Dinitrotoluene	0.000		0	N.D.		
20) Fluorene	3.953	166	21M6	9.373	ng/ml	
23) 4,6-Dinitro-o-cresol	0.000		0	N.D.		
24) Hexachlorobenzene	4.272	284	9M6	9.981	ng/ml	
25) Pentachlorophenol	0.000		0	N.D.		
26) Phenanthrene	4.497	178	40M6	10.916	ng/ml	
27) Anthracene	4.526	178	37	10.450	ng/ml	96
28) Fluoranthene	5.185	202	39M7	9.687	ng/ml	
29) Pyrene	5.313	202	41	9.843	ng/ml	100
32) Benzo[a]anthracene	6.020	228	75M1	11.804	ng/ml	
33) 3,3'-Dichlorobenzidine	0.000		0	N.D.	d	
34) Chrysene	6.039	228	39M6	9.915	ng/ml	
35) Bis(2-ethylhexyl)phtha...	0.000		0	N.D.	d	
37) Benzo[b]fluoranthene	6.782	252	39M4	9.278	ng/ml	
38) Benzo[k]fluoranthene	6.801	252	37	9.459	ng/ml	94
39) Benzo[a]pyrene	7.055	252	34	9.186	ng/ml	96
40) Indeno[1,2,3-cd]pyrene	8.223	276	35M1	9.457	ng/ml	
41) Dibenzo[a,h]anthracene	8.268	278	34M7	9.459	ng/ml	
42) Benzo[g,h,i]perylene	8.534	276	38	9.878	ng/ml	94

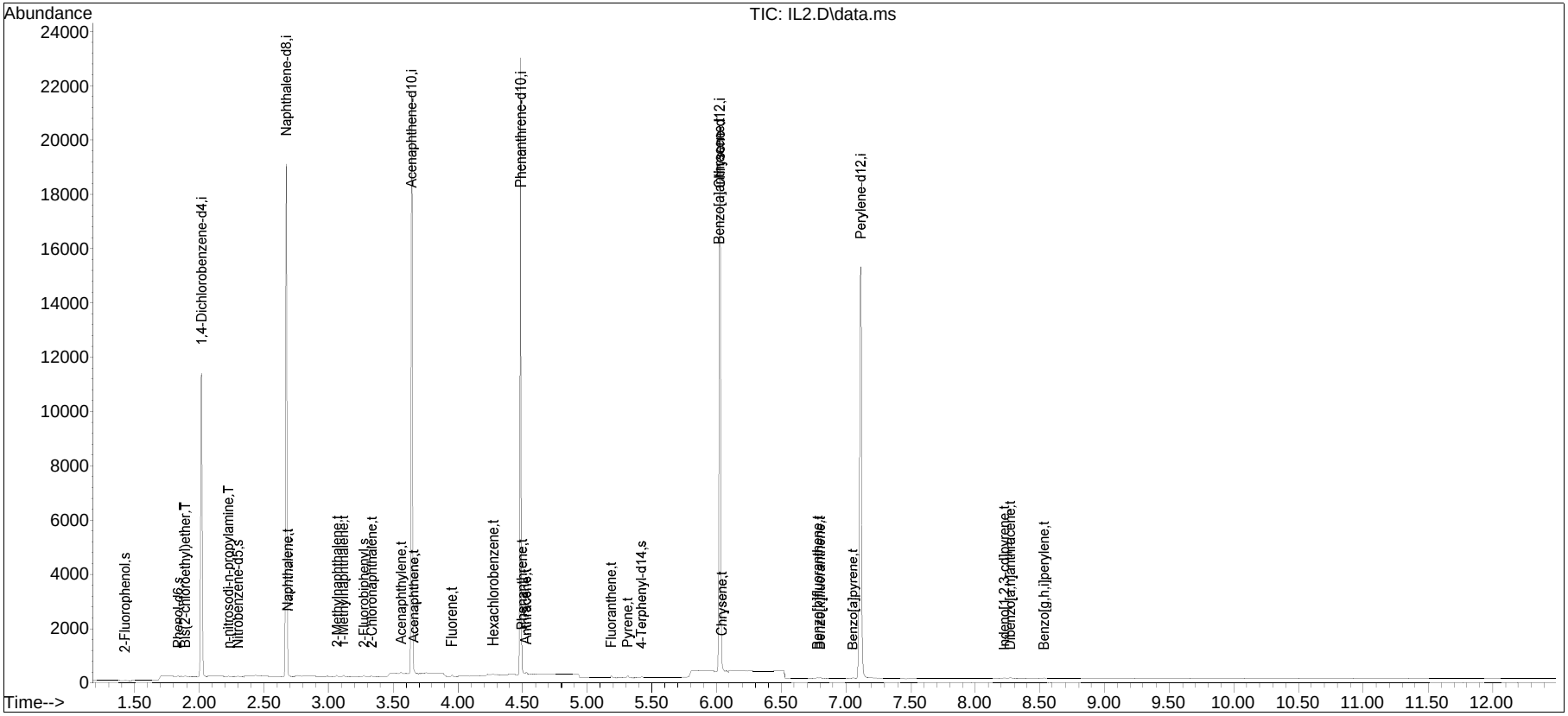
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV128\231211LVIical\
Data File : IL2.D
Acq On : 11 Dec 2023 03:40 pm
Operator : SV128:dv
Sample : IL2,32,, 0.01 Lot#10234
Misc : WG1864557,,ical
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Dec 15 14:48:57 2023
Quant Method : I:\8270SIM\SV128\231211LVIical\SIM-LVI_231211_sv128.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Dec 15 14:46:36 2023
Response via : Initial Calibration

Sub List : Default - All compounds listedical\IL7.D•

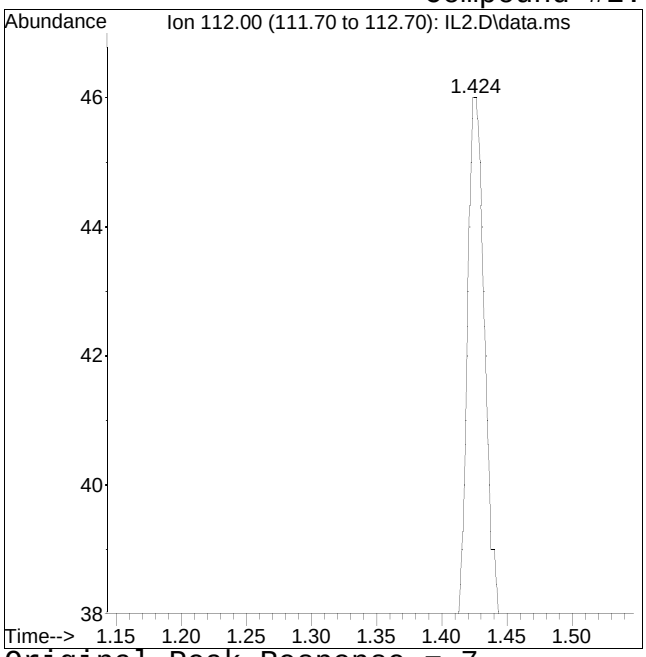


Manual Integration Report

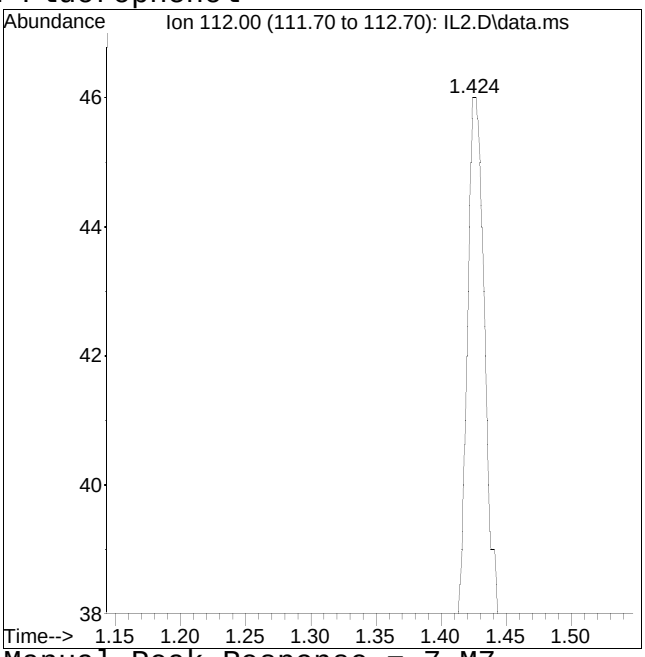
Data Path : I:\8270SIM\SV128\231211LVIQ
Data File : IL2.D
Date Inj'd : 12/11/2023 3:40 pm
Sample : IL2,32,, 0.01 Lot#10234

Method : SIM-LVI_231211_sv128.M
Operator : SV128:dv
Instrument : SV128
Quant Date : 12/15/2023 2:46 pm

Compound #2: 2-Fluorophenol



Original Peak Response = 7



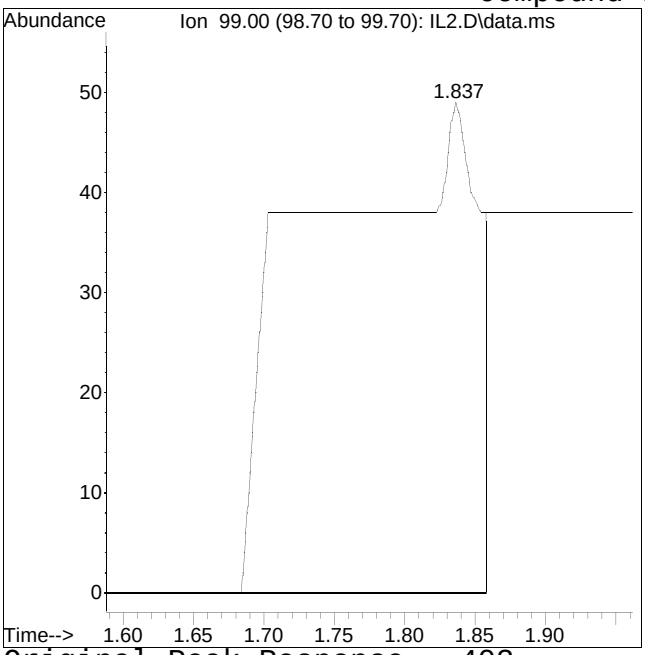
Manual Peak Response = 7 M7

M7 = A qualifier ion was manually integrated (only for GC/MS data).

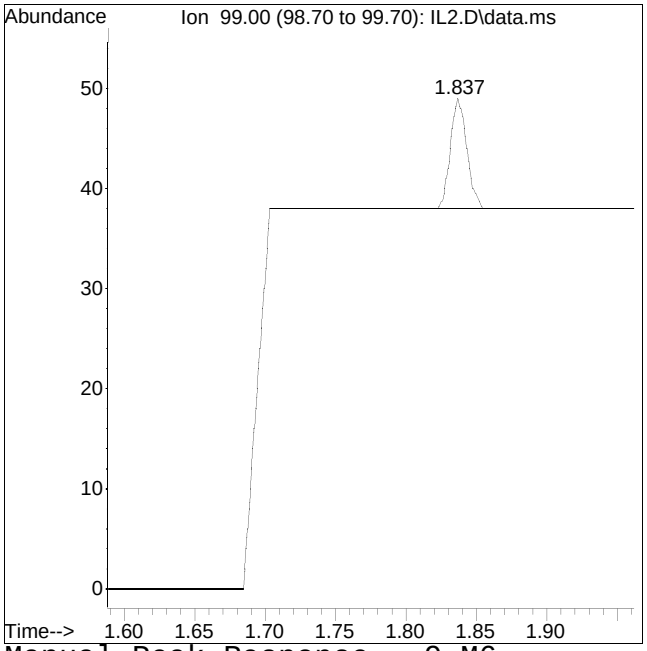
Manual Integration Report

Data Path : I:\8270SIM\SV128\231211LVIQMethod : SIM-LVI_231211_sv128.M
Data File : IL2.D Operator : SV128:dv
Date Inj'd : 12/11/2023 3:40 pm Instrument : SV128
Sample : IL2,32,, 0.01 Lot#10234 Quant Date : 12/15/2023 2:46 pm

Compound #3: Phenol-d6



Original Peak Response = 403



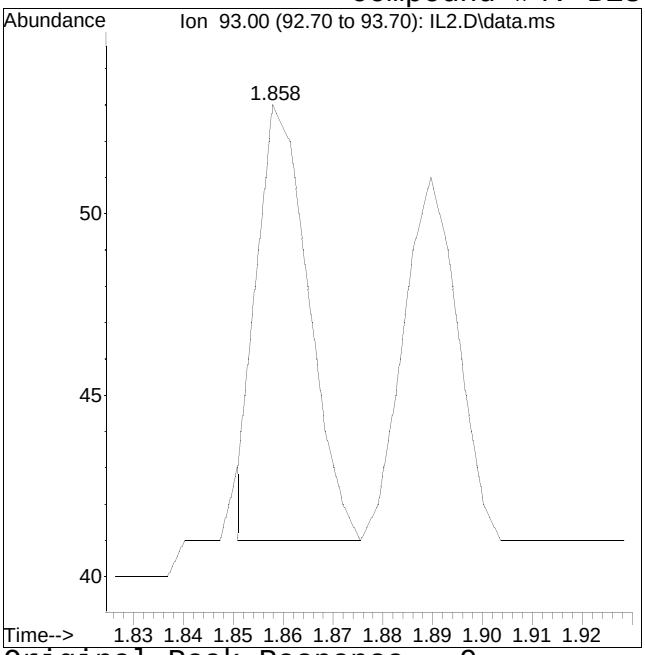
Manual Peak Response = 9 M6

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

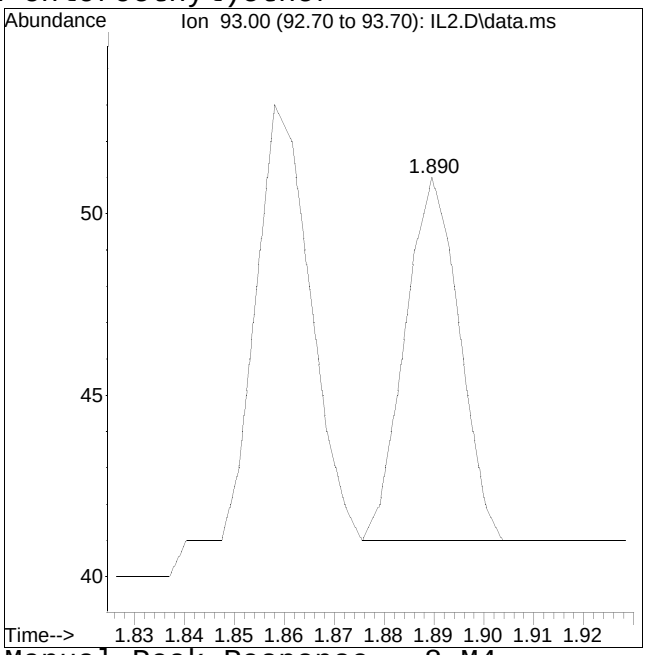
Manual Integration Report

Data Path : I:\8270SIM\SV128\231211LVIQMethod : SIM-LVI_231211_sv128.M
Data File : IL2.D Operator : SV128:dv
Date Inj'd : 12/11/2023 3:40 pm Instrument : SV128
Sample : IL2,32,, 0.01 Lot#10234 Quant Date : 12/15/2023 2:46 pm

Compound #4: Bis(2-chloroethyl)ether



Original Peak Response = 9



Manual Peak Response = 8 M4

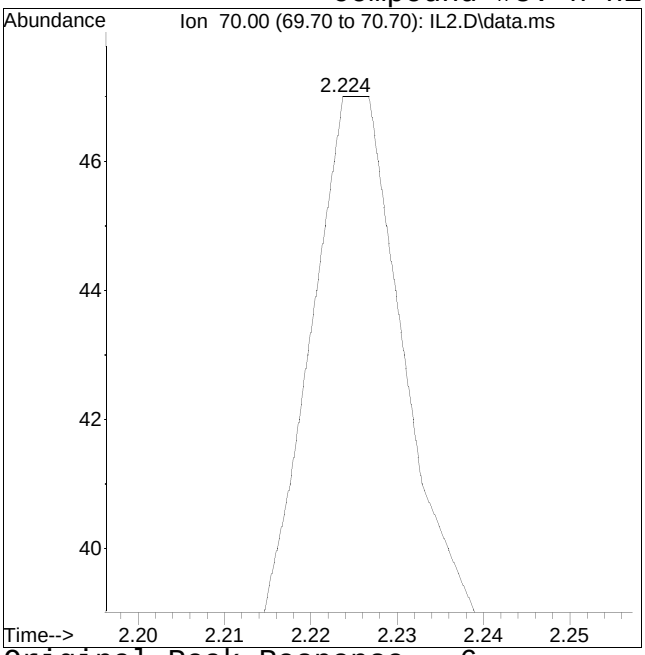
M4 = Poor automated baseline construction.

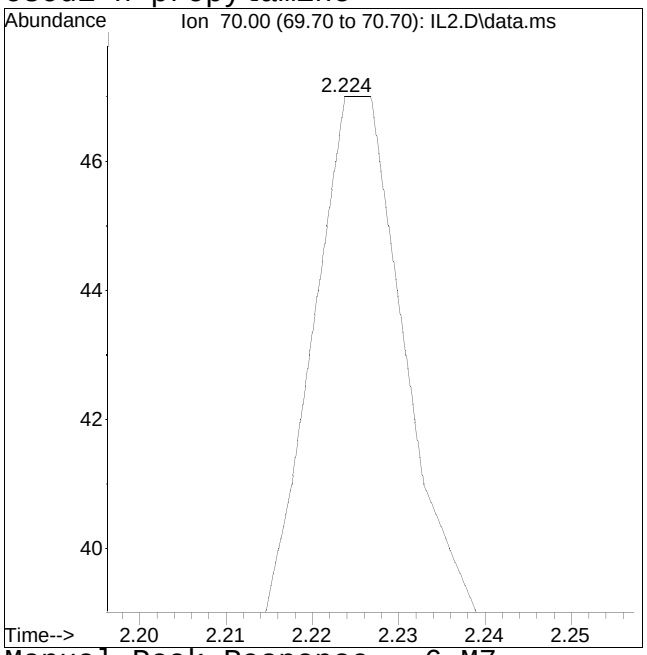
Manual Integration Report

Data Path : I:\8270SIM\SV128\231211LVIQ
Data File : IL2.D
Date Inj'd : 12/11/2023 3:40 pm
Sample : IL2,32,, 0.01 Lot#10234

Method : SIM-LVI_231211_sv128.M
Operator : SV128:dv
Instrument : SV128
Quant Date : 12/15/2023 2:46 pm

Compound #5: n-nitrosodi-n-propylamine



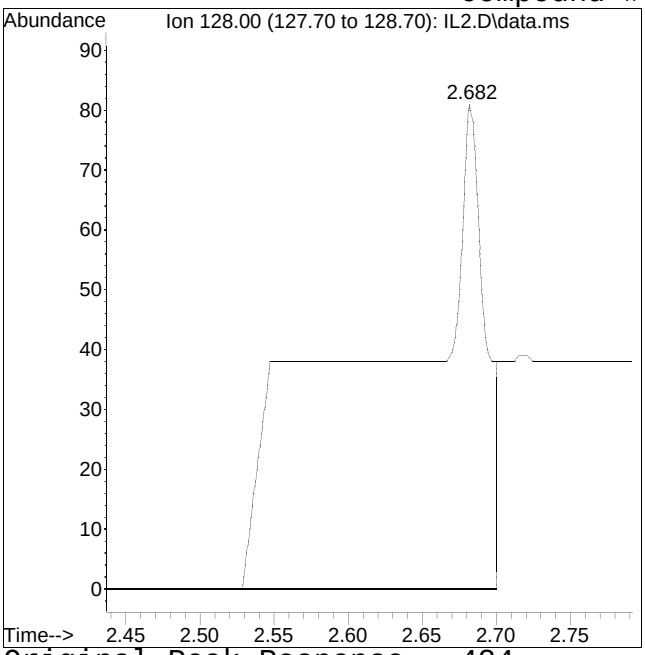


Original Peak Response = 6
Manual Peak Response = 6 M7
M7 = A qualifier ion was manually integrated (only for GC/MS data).

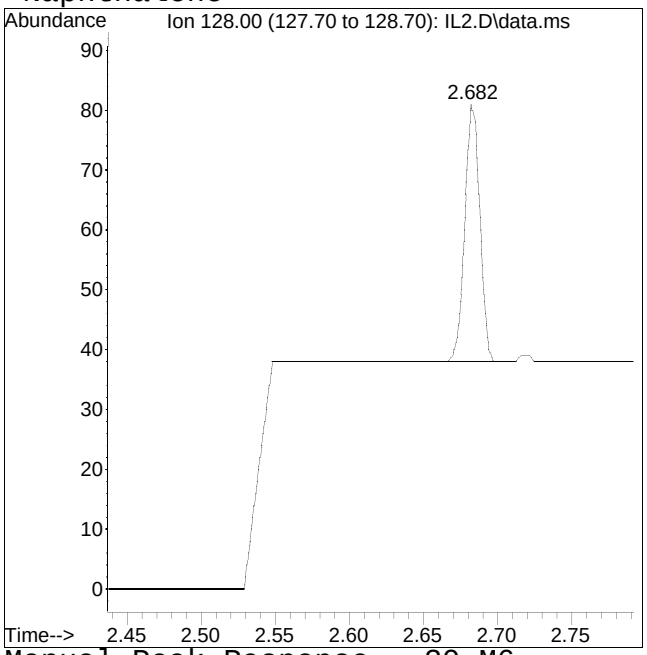
Manual Integration Report

Data Path : I:\8270SIM\SV128\231211LVIQMethod : SIM-LVI_231211_sv128.M
Data File : IL2.D Operator : SV128:dv
Date Inj'd : 12/11/2023 3:40 pm Instrument : SV128
Sample : IL2,32,, 0.01 Lot#10234 Quant Date : 12/15/2023 2:46 pm

Compound #9: Naphthalene



Original Peak Response = 424



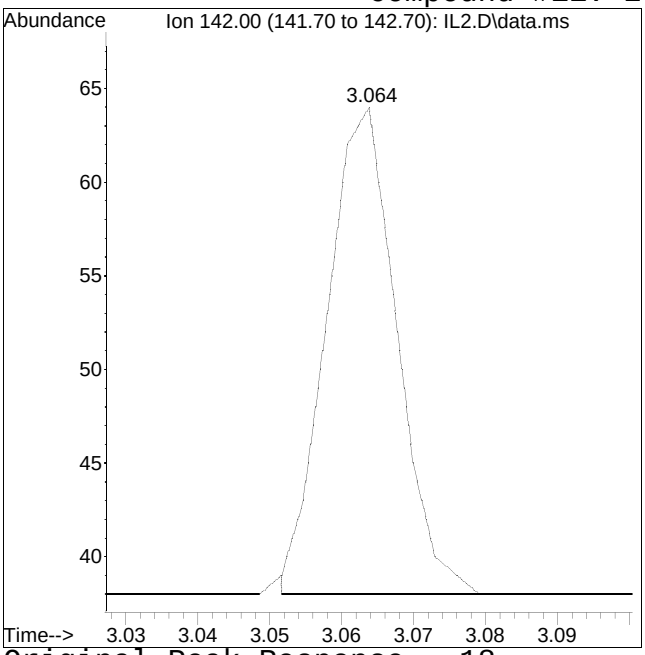
Manual Peak Response = 30 M6

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

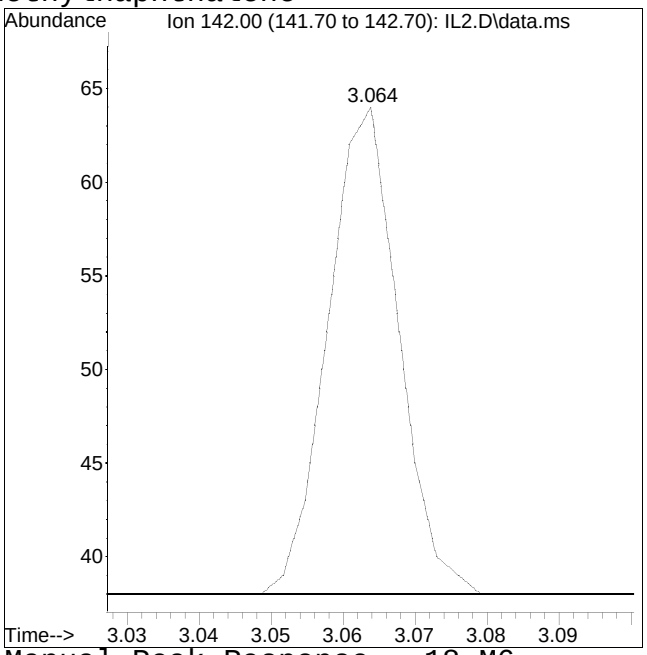
Manual Integration Report

Data Path : I:\8270SIM\SV128\231211LVIQMethod : SIM-LVI_231211_sv128.M
Data File : IL2.D Operator : SV128:dv
Date Inj'd : 12/11/2023 3:40 pm Instrument : SV128
Sample : IL2,32,, 0.01 Lot#10234 Quant Date : 12/15/2023 2:46 pm

Compound #11: 2-Methylnaphthalene



Original Peak Response = 18



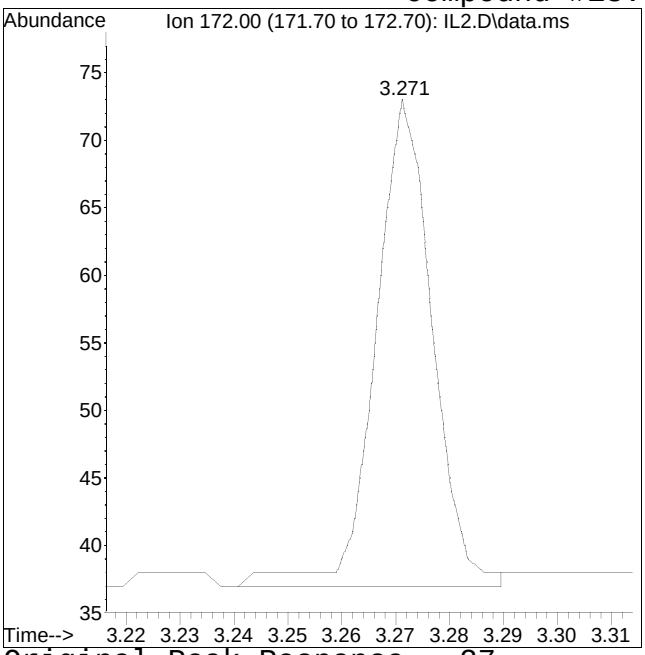
Manual Peak Response = 18 M6

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

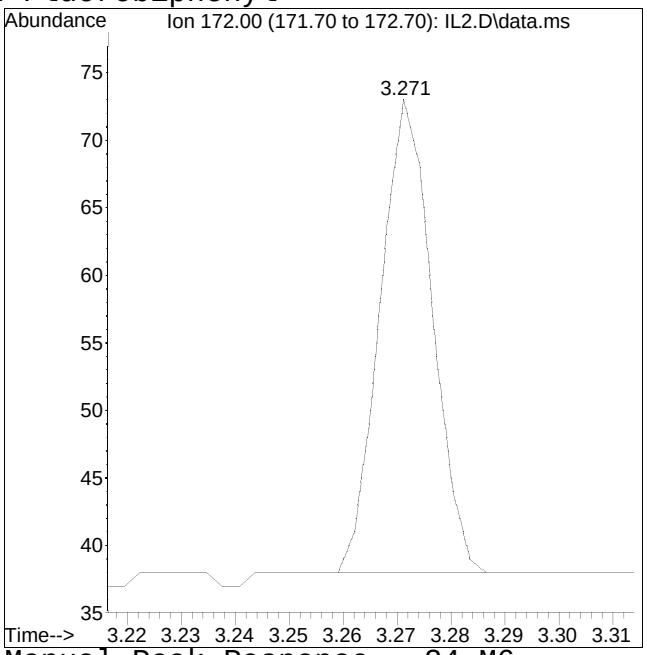
Manual Integration Report

Data Path : I:\8270SIM\SV128\231211LVIQMethod : SIM-LVI_231211_sv128.M
Data File : IL2.D Operator : SV128:dv
Date Inj'd : 12/11/2023 3:40 pm Instrument : SV128
Sample : IL2,32,, 0.01 Lot#10234 Quant Date : 12/15/2023 2:46 pm

Compound #13: 2-Fluorobiphenyl



Original Peak Response = 27



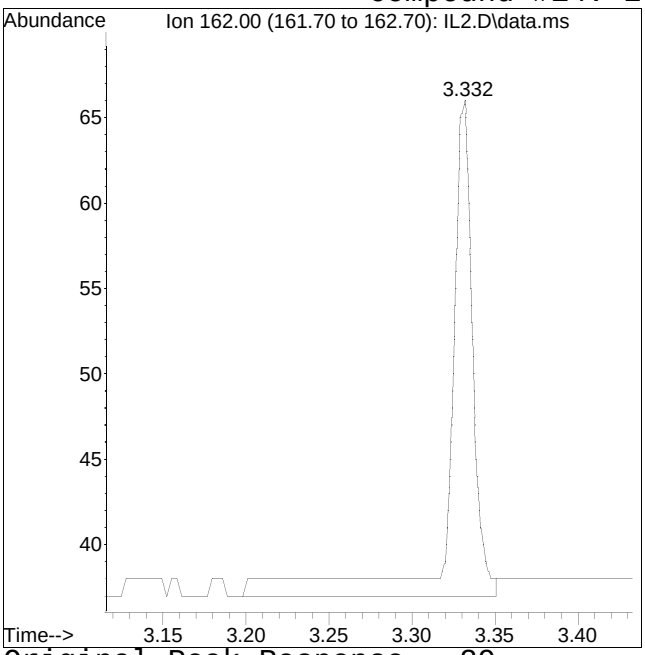
Manual Peak Response = 24 M6

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

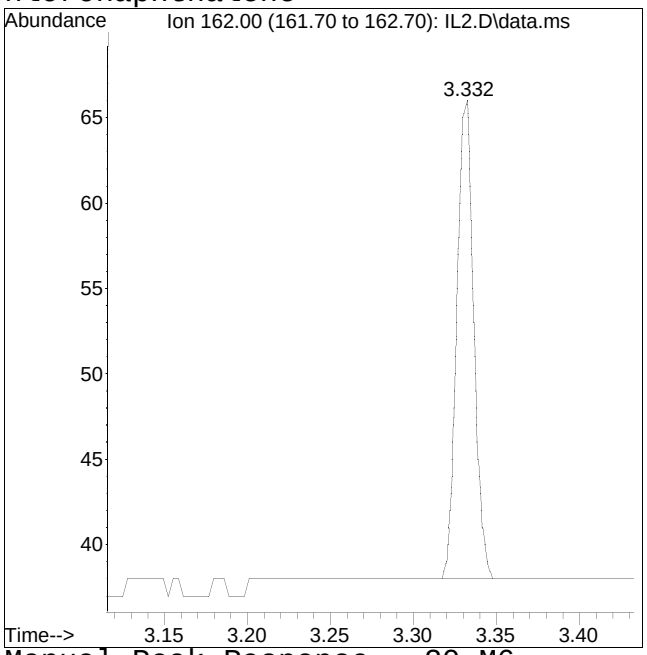
Manual Integration Report

Data Path : I:\8270SIM\SV128\231211LVIQMethod : SIM-LVI_231211_sv128.M
Data File : IL2.D Operator : SV128:dv
Date Inj'd : 12/11/2023 3:40 pm Instrument : SV128
Sample : IL2,32,, 0.01 Lot#10234 Quant Date : 12/15/2023 2:46 pm

Compound #14: 2-Chloronaphthalene



Original Peak Response = 29



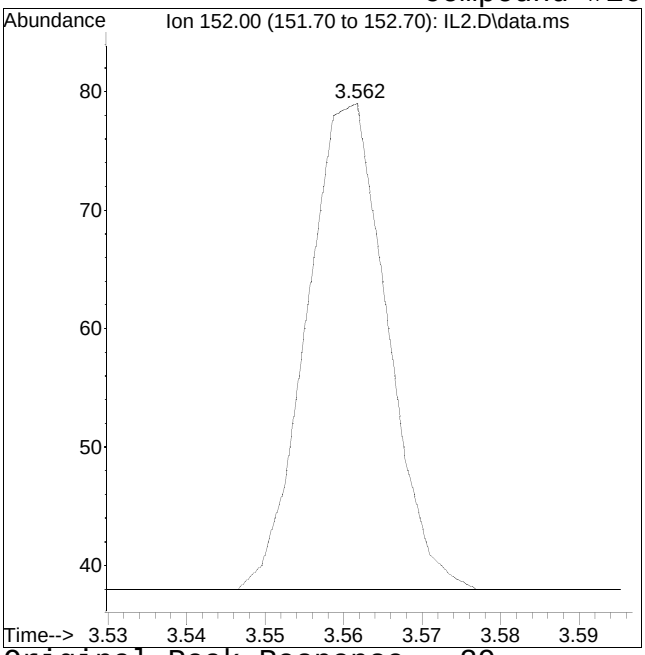
Manual Peak Response = 20 M6

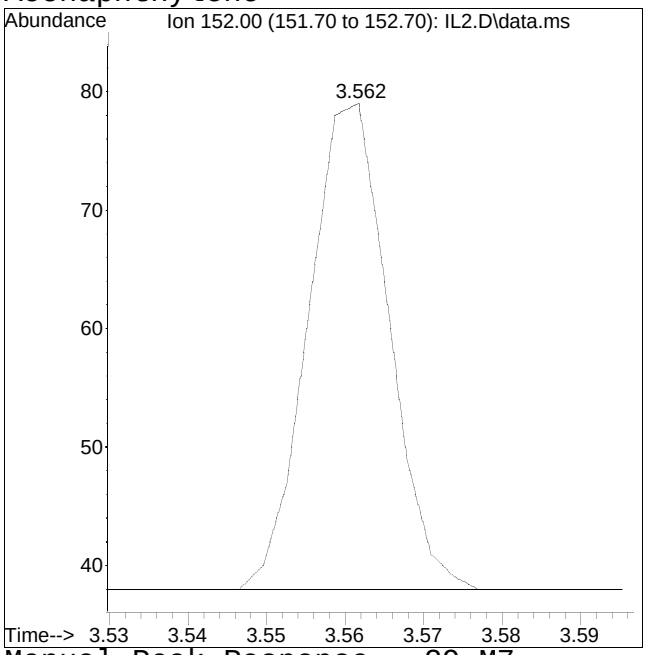
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

Data Path : I:\8270SIM\SV128\231211LVIQMethod : SIM-LVI_231211_sv128.M
Data File : IL2.D Operator : SV128:dv
Date Inj'd : 12/11/2023 3:40 pm Instrument : SV128
Sample : IL2,32,, 0.01 Lot#10234 Quant Date : 12/15/2023 2:46 pm

Compound #16: Acenaphthylene



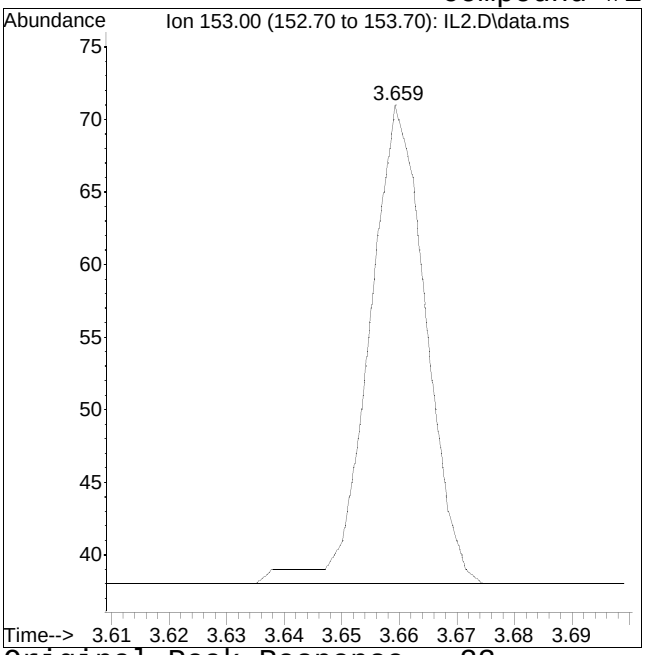


Original Peak Response = 29 Manual Peak Response = 29 M7
M7 = A qualifier ion was manually integrated (only for GC/MS data).

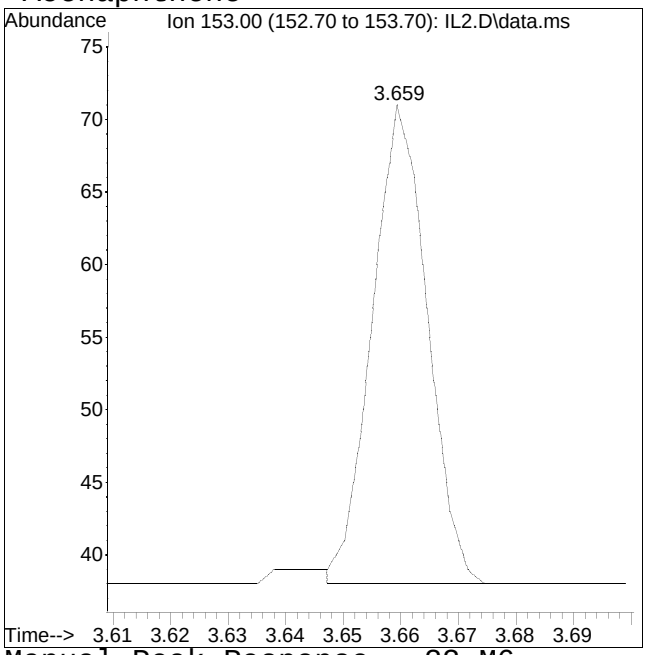
Manual Integration Report

Data Path : I:\8270SIM\SV128\231211LVIQMethod : SIM-LVI_231211_sv128.M
Data File : IL2.D Operator : SV128:dv
Date Inj'd : 12/11/2023 3:40 pm Instrument : SV128
Sample : IL2,32,, 0.01 Lot#10234 Quant Date : 12/15/2023 2:46 pm

Compound #18: Acenaphthene



Original Peak Response = 23



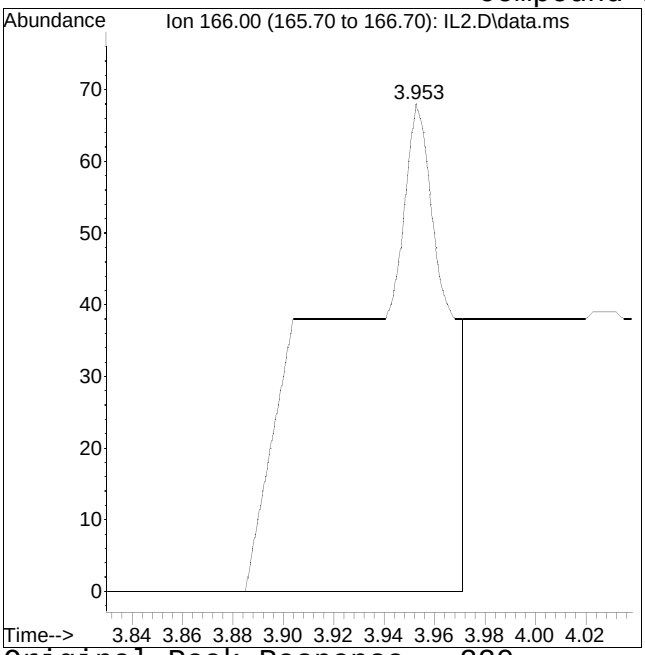
Manual Peak Response = 22 M6

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

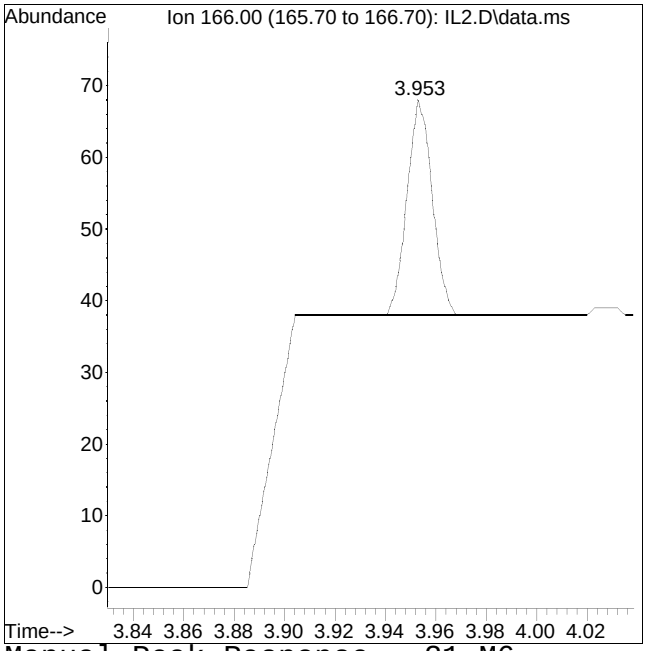
Manual Integration Report

Data Path : I:\8270SIM\SV128\231211LVIQMethod : SIM-LVI_231211_sv128.M
Data File : IL2.D Operator : SV128:dv
Date Inj'd : 12/11/2023 3:40 pm Instrument : SV128
Sample : IL2,32,, 0.01 Lot#10234 Quant Date : 12/15/2023 2:46 pm

Compound #20: Fluorene



Original Peak Response = 220

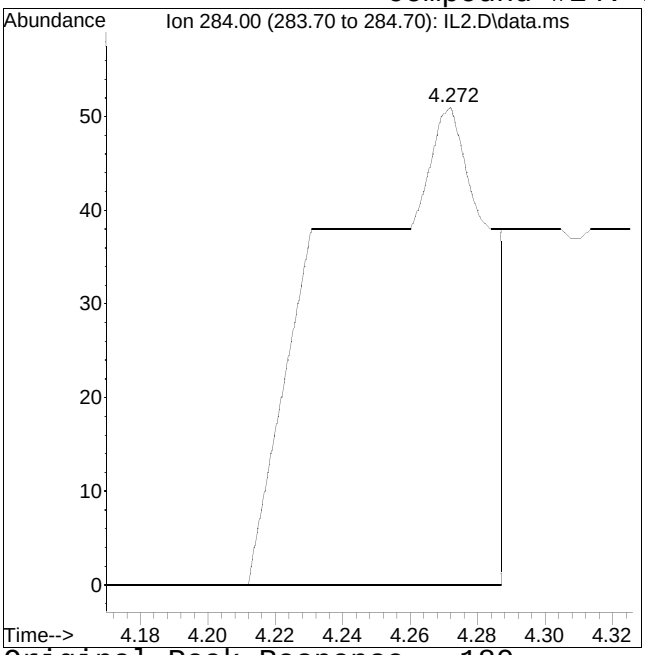


Manual Peak Response = 21 M6

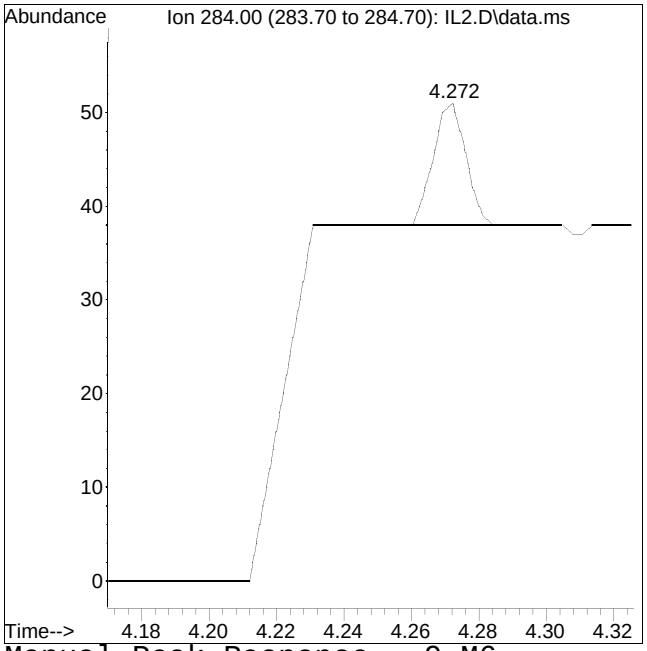
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Data Path : I:\8270SIM\SV128\231211LVIQMethod : SIM-LVI_231211_sv128.M
Data File : IL2.D Operator : SV128:dv
Date Inj'd : 12/11/2023 3:40 pm Instrument : SV128
Sample : IL2,32,, 0.01 Lot#10234 Quant Date : 12/15/2023 2:46 pm

Compound #24: Hexachlorobenzene



Original Peak Response = 180



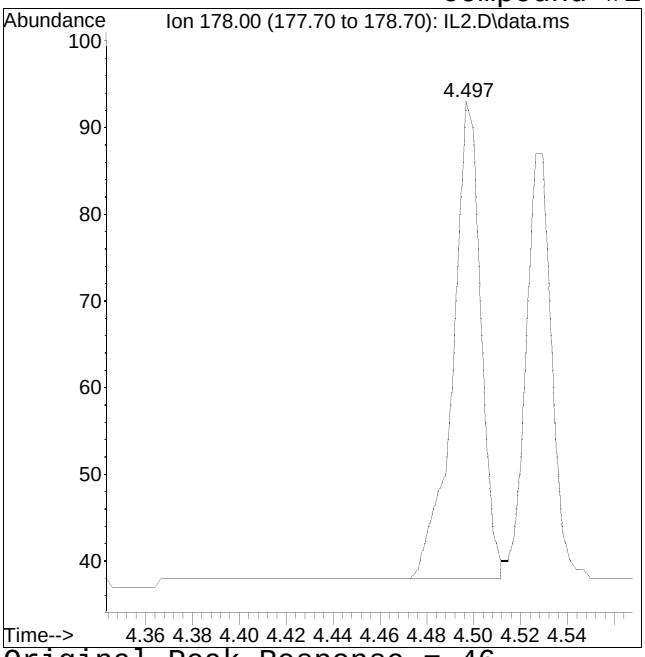
Manual Peak Response = 9 M6

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

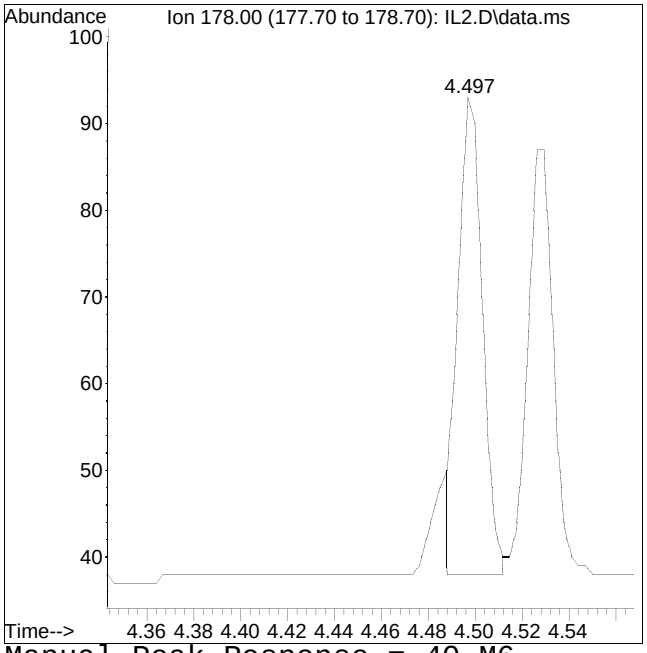
Manual Integration Report

Data Path : I:\8270SIM\SV128\231211LVIQMethod : SIM-LVI_231211_sv128.M
Data File : IL2.D Operator : SV128:dv
Date Inj'd : 12/11/2023 3:40 pm Instrument : SV128
Sample : IL2,32,, 0.01 Lot#10234 Quant Date : 12/15/2023 2:46 pm

Compound #26: Phenanthrene



Original Peak Response = 46



Manual Peak Response = 40 M6

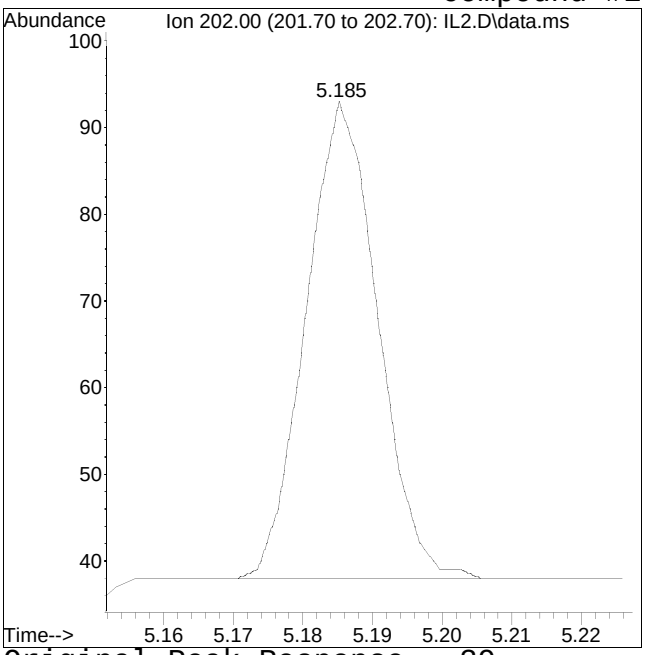
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

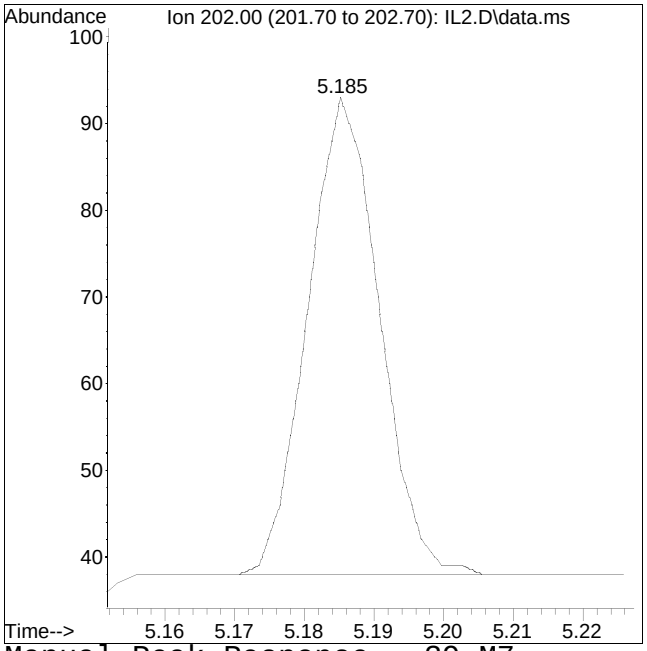
Data Path : I:\8270SIM\SV128\231211LVIQ
Data File : IL2.D
Date Inj'd : 12/11/2023 3:40 pm
Sample : IL2,32,, 0.01 Lot#10234

Method : SIM-LVI_231211_sv128.M
Operator : SV128:dv
Instrument : SV128
Quant Date : 12/15/2023 2:46 pm

Compound #28: Fluoranthene



Original Peak Response = 39



Manual Peak Response = 39 M7

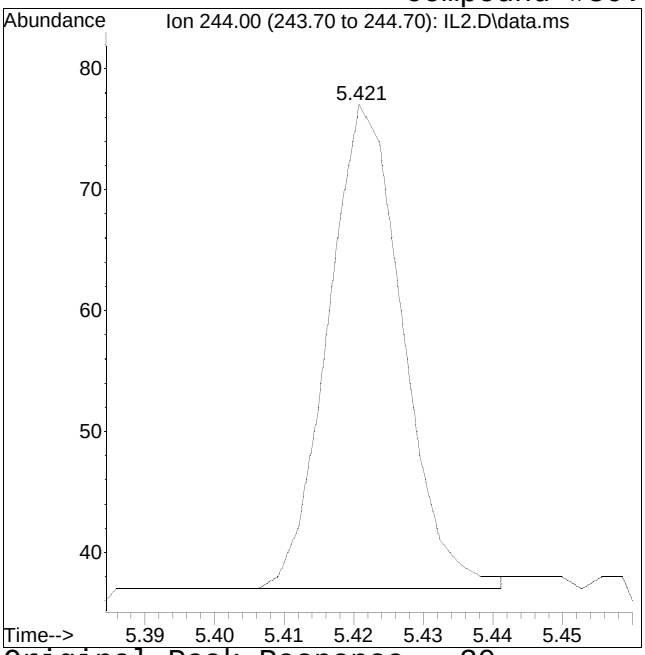
M7 = A qualifier ion was manually integrated (only for GC/MS data).

Manual Integration Report

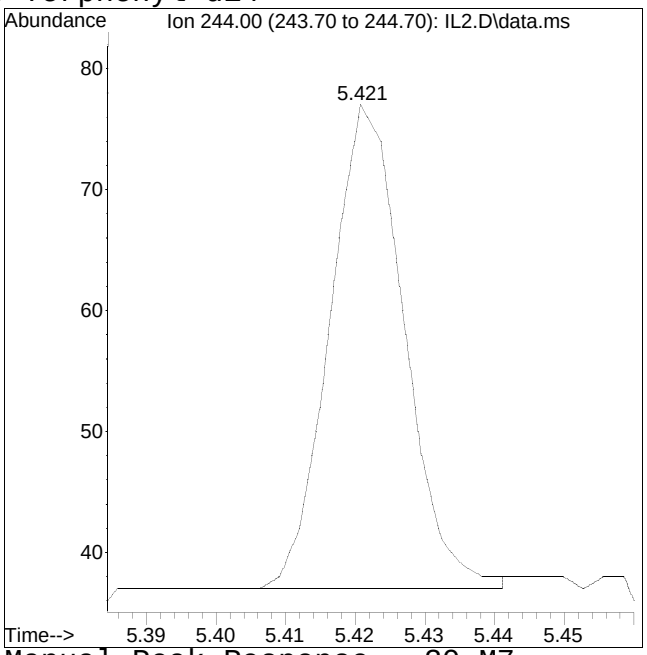
Data Path : I:\8270SIM\SV128\231211LVIQ
Data File : IL2.D
Date Inj'd : 12/11/2023 3:40 pm
Sample : IL2,32,, 0.01 Lot#10234

Method : SIM-LVI_231211_sv128.M
Operator : SV128:dv
Instrument : SV128
Quant Date : 12/15/2023 2:46 pm

Compound #30: 4-Terphenyl-d14



Original Peak Response = 30



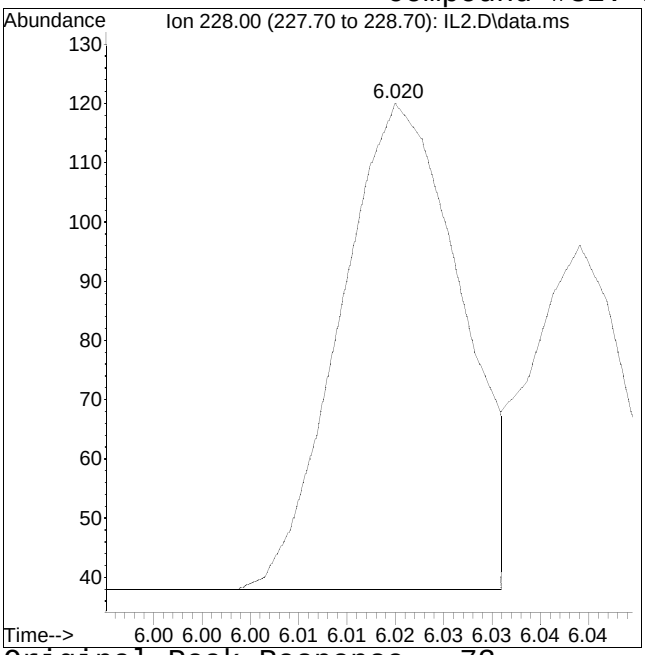
Manual Peak Response = 30 M7

M7 = A qualifier ion was manually integrated (only for GC/MS data).

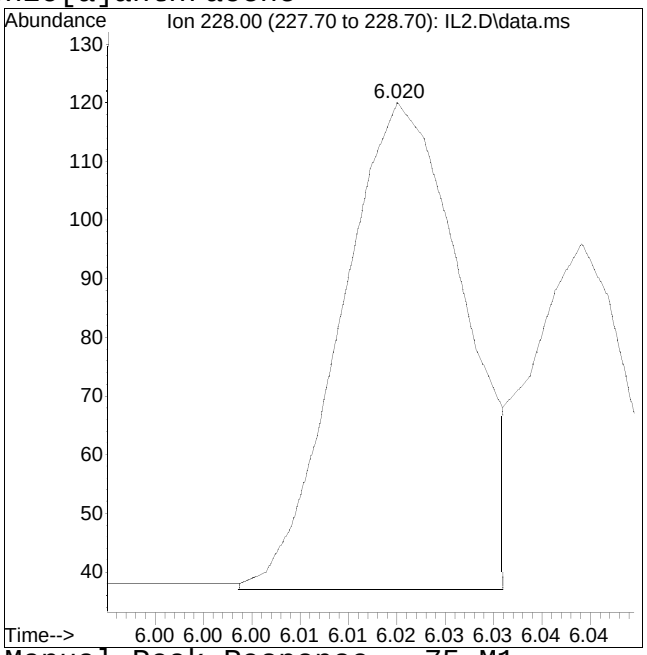
Manual Integration Report

Data Path : I:\8270SIM\SV128\231211LVIQMethod : SIM-LVI_231211_sv128.M
Data File : IL2.D Operator : SV128:dv
Date Inj'd : 12/11/2023 3:40 pm Instrument : SV128
Sample : IL2,32,, 0.01 Lot#10234 Quant Date : 12/15/2023 2:46 pm

Compound #32: Benzo[a]anthracene



Original Peak Response = 73



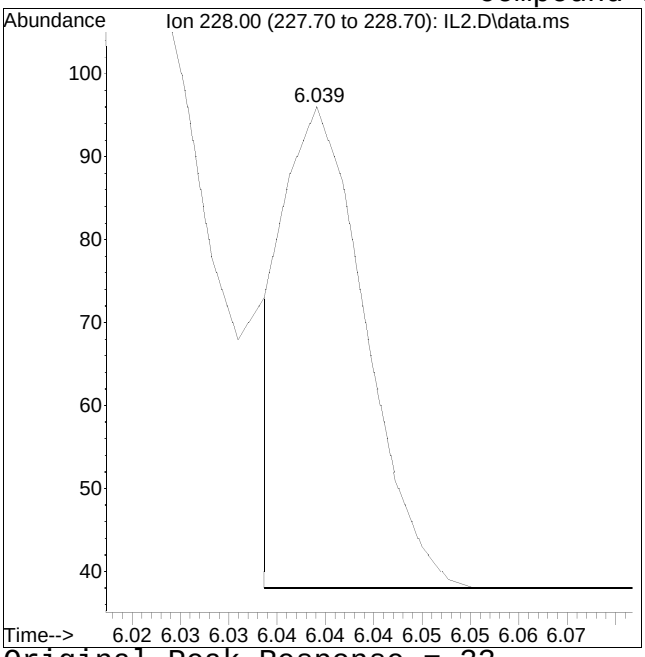
Manual Peak Response = 75 M1

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

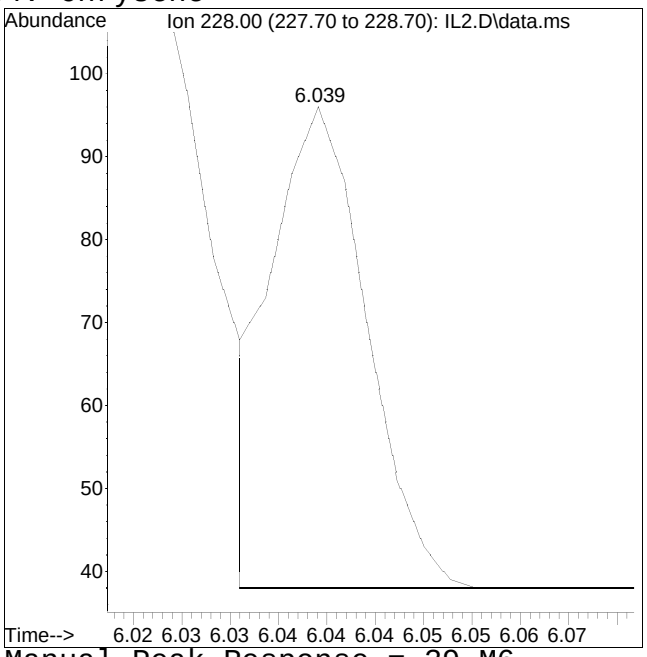
Manual Integration Report

Data Path : I:\8270SIM\SV128\231211LVIQMethod : SIM-LVI_231211_sv128.M
Data File : IL2.D Operator : SV128:dv
Date Inj'd : 12/11/2023 3:40 pm Instrument : SV128
Sample : IL2,32,, 0.01 Lot#10234 Quant Date : 12/15/2023 2:46 pm

Compound #34: Chrysene



Original Peak Response = 33



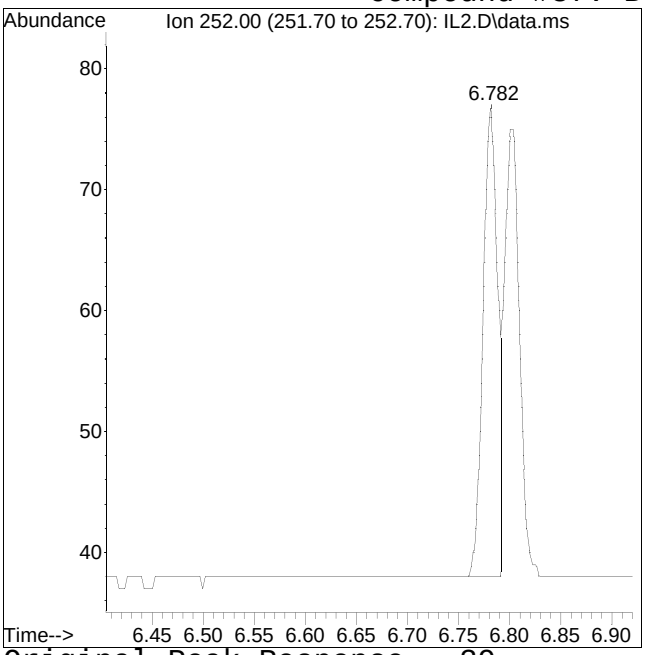
Manual Peak Response = 39 M6

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

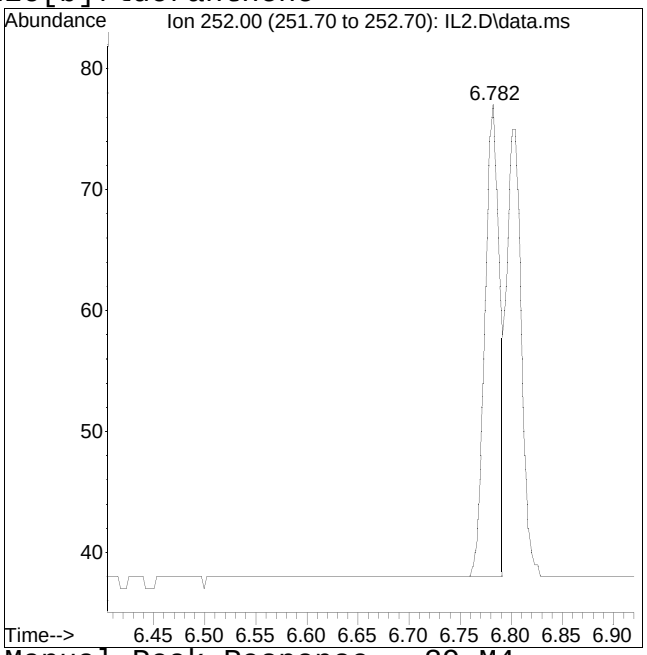
Manual Integration Report

Data Path : I:\8270SIM\SV128\231211LVIQMethod : SIM-LVI_231211_sv128.M
Data File : IL2.D Operator : SV128:dv
Date Inj'd : 12/11/2023 3:40 pm Instrument : SV128
Sample : IL2,32,, 0.01 Lot#10234 Quant Date : 12/15/2023 2:46 pm

Compound #37: Benzo[b]fluoranthene



Original Peak Response = 39



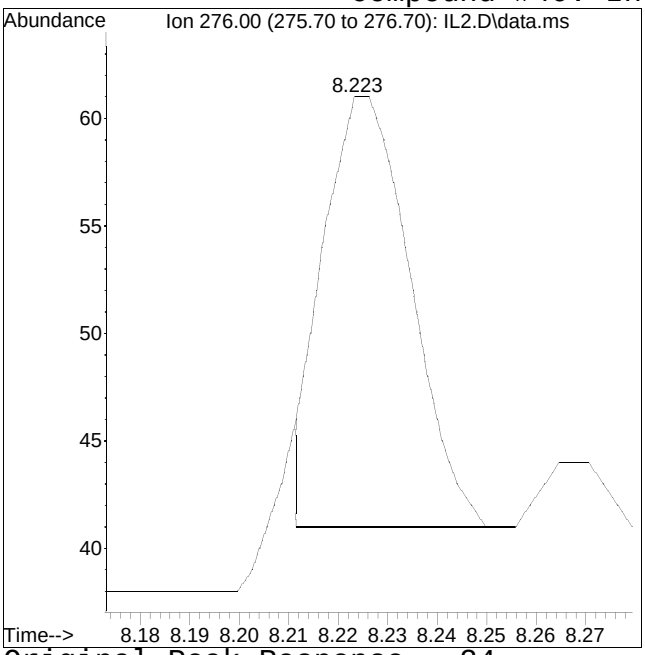
Manual Peak Response = 39 M4

M4 = Poor automated baseline construction.

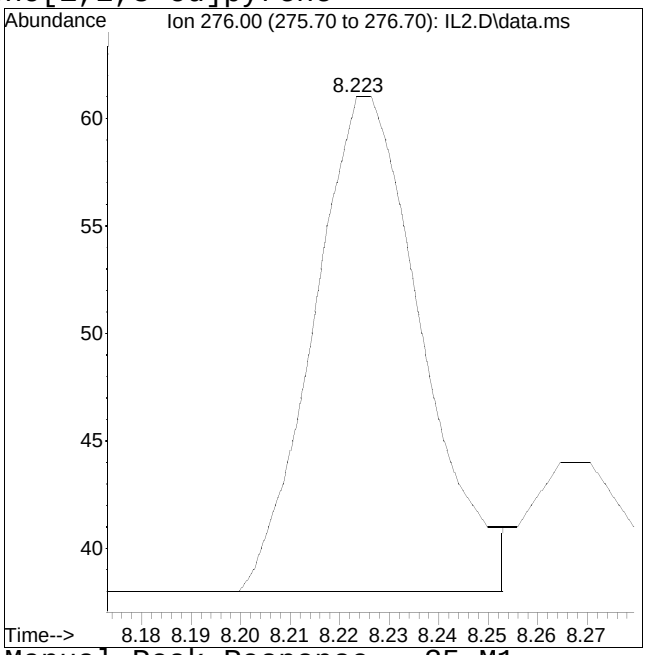
Manual Integration Report

Data Path : I:\8270SIM\SV128\231211LVIQMethod : SIM-LVI_231211_sv128.M
Data File : IL2.D Operator : SV128:dv
Date Inj'd : 12/11/2023 3:40 pm Instrument : SV128
Sample : IL2,32,, 0.01 Lot#10234 Quant Date : 12/15/2023 2:46 pm

Compound #40: Indeno[1,2,3-cd]pyrene



Original Peak Response = 24



Manual Peak Response = 35 M1

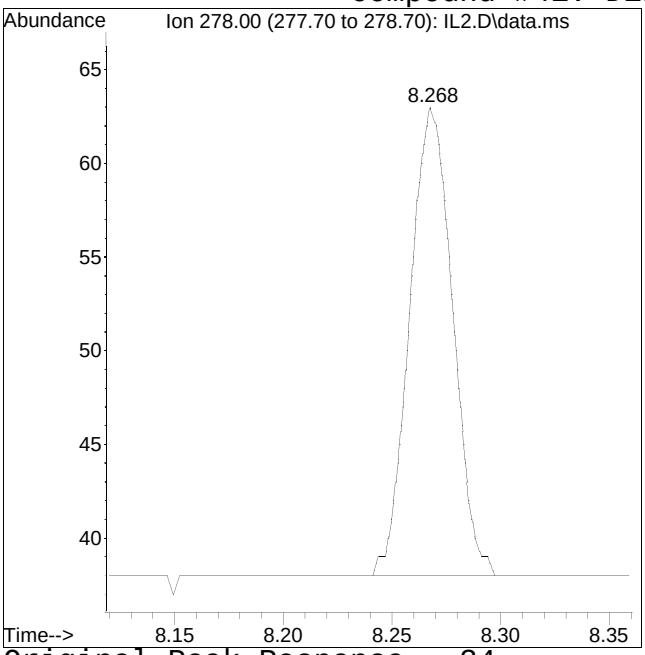
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Manual Integration Report

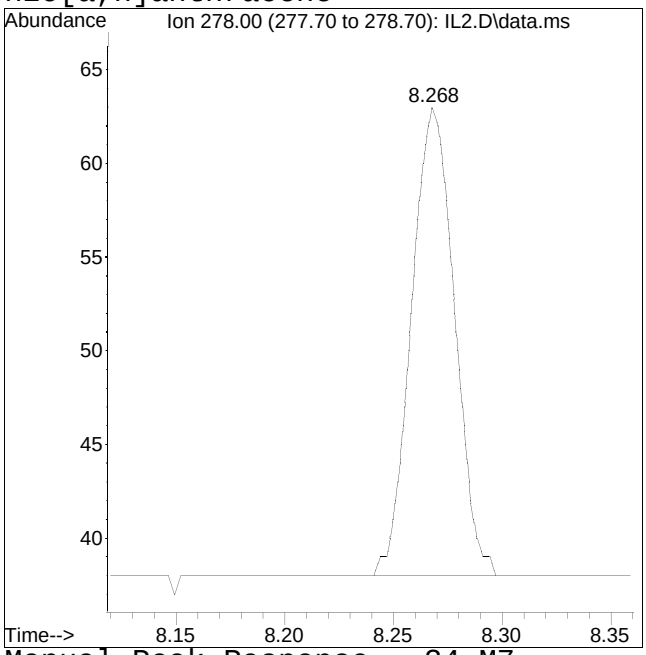
Data Path : I:\8270SIM\SV128\231211LVIQ
Data File : IL2.D
Date Inj'd : 12/11/2023 3:40 pm
Sample : IL2,32,, 0.01 Lot#10234

Method : SIM-LVI_231211_sv128.M
Operator : SV128:dv
Instrument : SV128
Quant Date : 12/15/2023 2:46 pm

Compound #41: Dibenzo[a,h]anthracene



Original Peak Response = 34



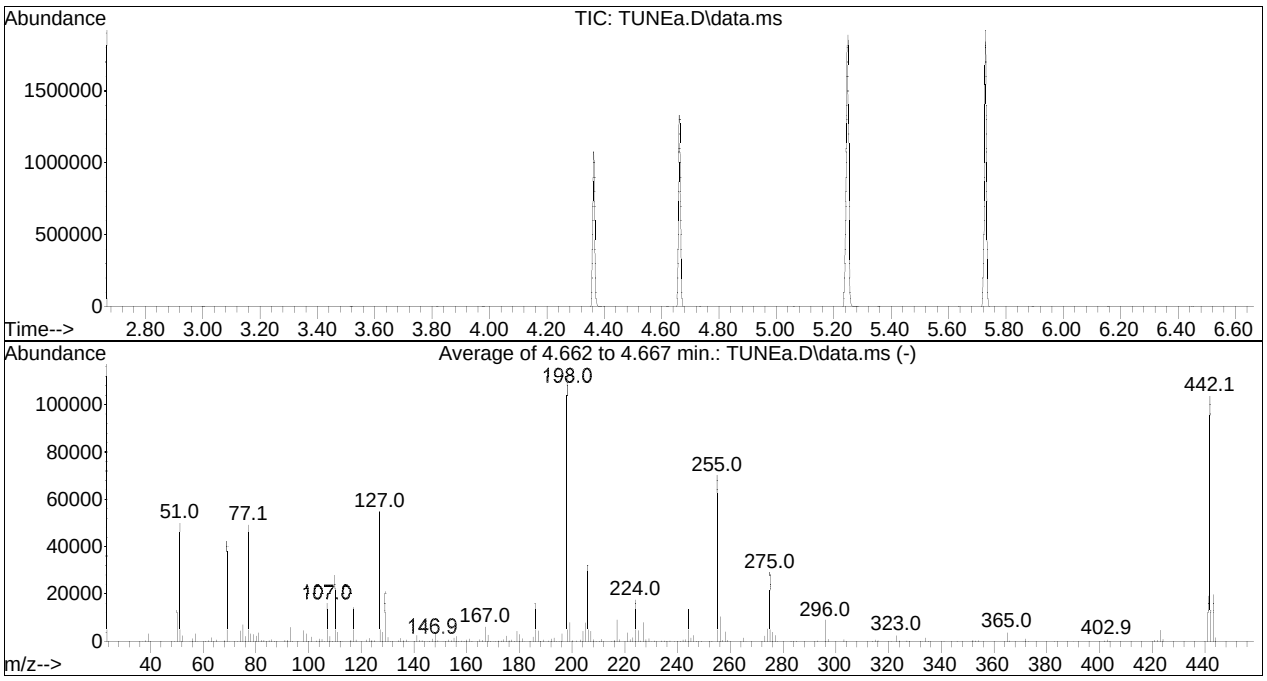
Manual Peak Response = 34 M7

M7 = A qualifier ion was manually integrated (only for GC/MS data).

Data Path : I:\8270SIM\SV128\231211LVIical\
Data File : TUNEa.D
Acq On : 13 Dec 2023 06:43 am
Operator : SV128:dv
Sample : TUNEa
Misc : WG1864557,,ical
ALS Vial : 48 Sample Multiplier: 1

Integration File: rteint.p

Method : I:\8270SIM\SV128\231211LVIical\SIM-LVI_231211_sv128.M
Title : Semivolatiles by GC/MS by modified 8270
Last Update : Fri Dec 15 14:46:27 2023



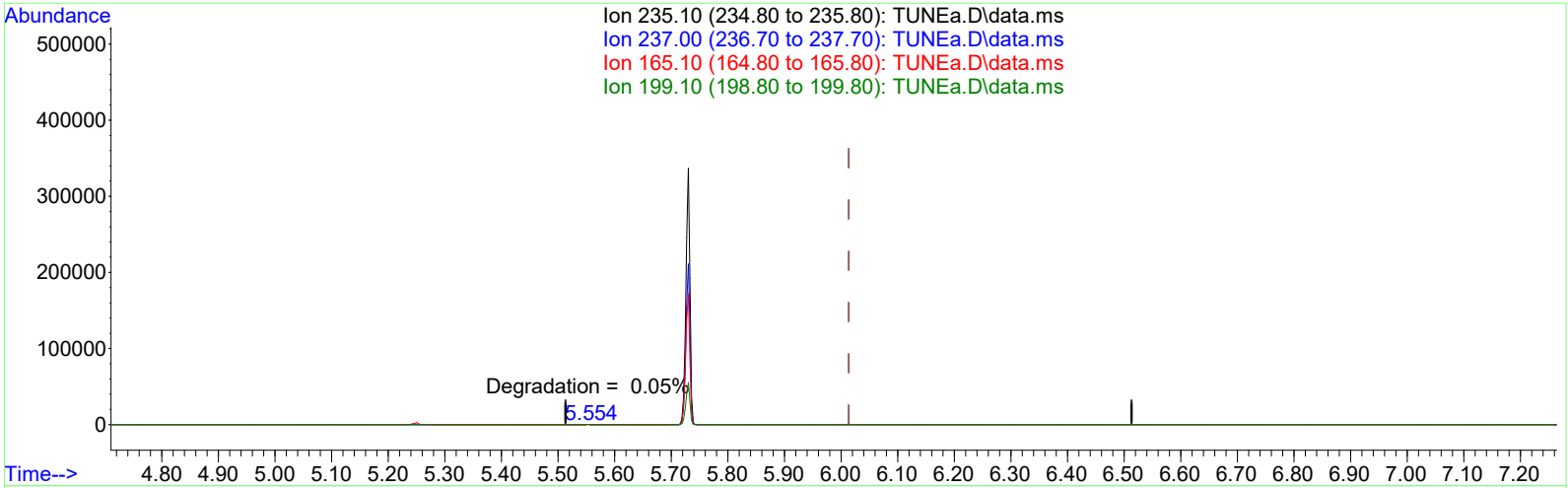
Spectrum Information: Average of 4.662 to 4.667 min.

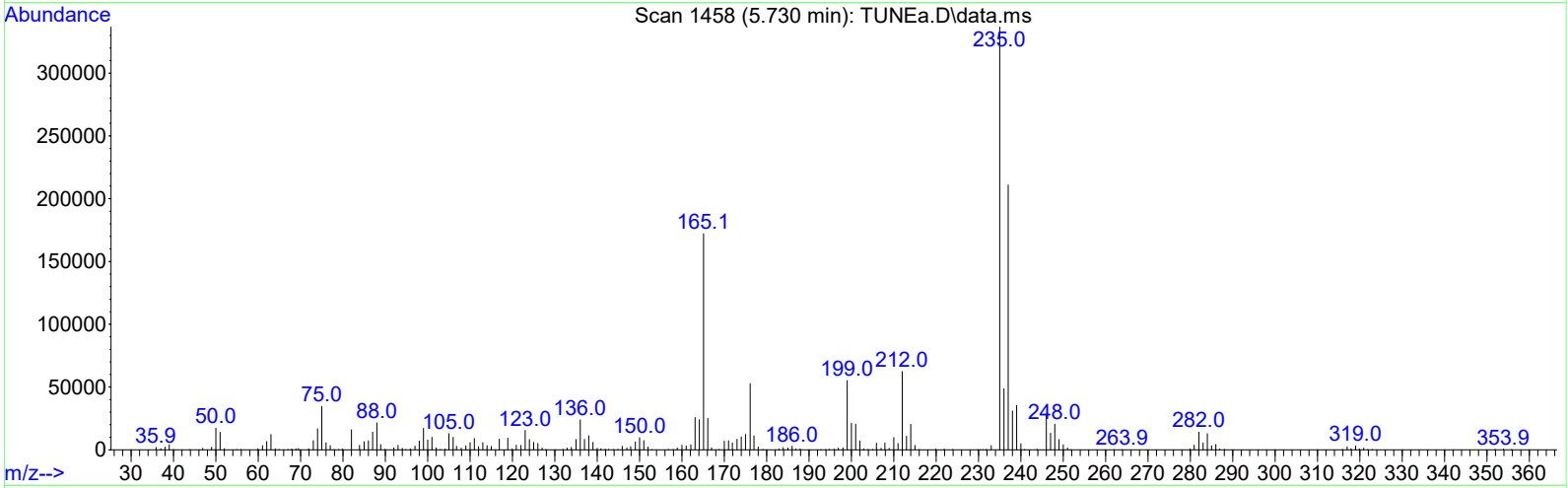
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	44.9	49992	PASS
68	69	0.00	2	1.6	697	PASS
69	69	100	100	100.0	42256	PASS
70	69	0.00	2	0.3	135	PASS
127	198	10	80	49.2	54872	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	111429	PASS
199	198	5	9	7.0	7820	PASS
275	198	10	60	26.1	29043	PASS
365	198	1	100	3.4	3734	PASS
441	442	0.01	24	18.3	18990	PASS
442	198	50	100	93.0	103651	PASS
443	442	15	24	18.7	19420	PASS

Quantitation Report (Qedit)

Data Path : I:\8270SIM\SV128\231211LVIical\
Data File : TUNEa.D
Acq On : 13 Dec 2023 06:43 am
Operator : SV128:dv
Sample : TUNEa
Misc : WG1864557,,ical
ALS Vial : 48 Sample Multiplier: 1

Quant Time: Dec 13 07:09:11 2023
Quant Method : I:\8270SIM\SV128\231211LVIical\dftppsv128.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Nov 10 08:59:52 2023
Response via : Continuing Cal File: C:\ENVDEMO\BNADATA\DLWB002.D





TIC: TUNEa.D\data.ms

(6) ddt (T)

5.730min (-0.284) 27.15

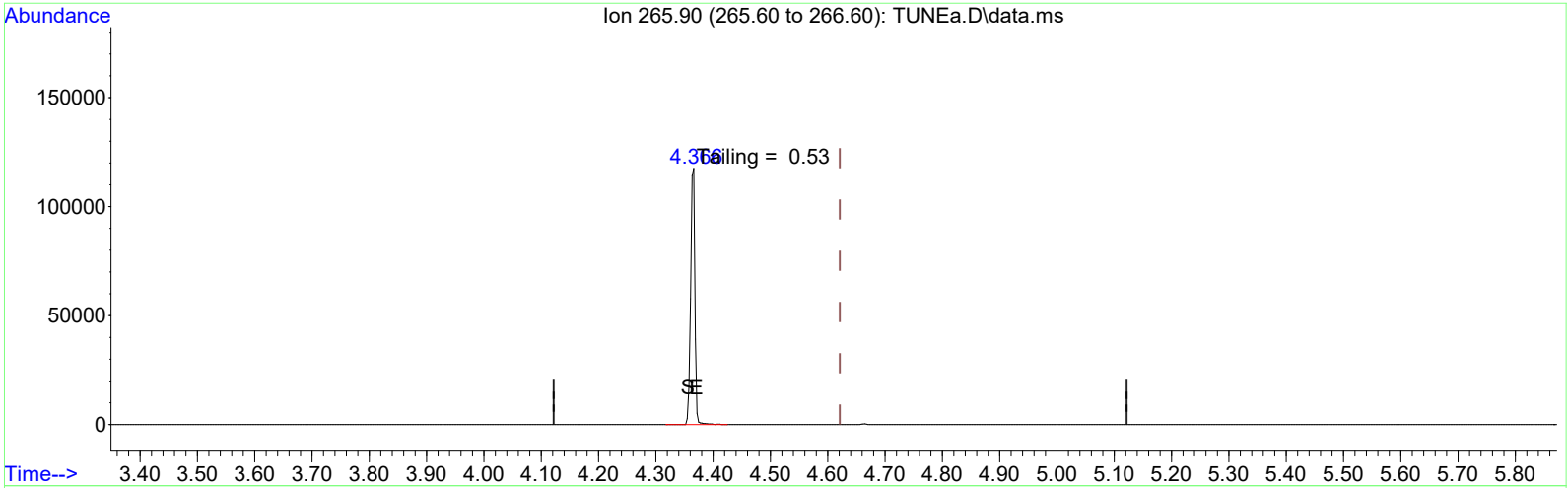
response 165502

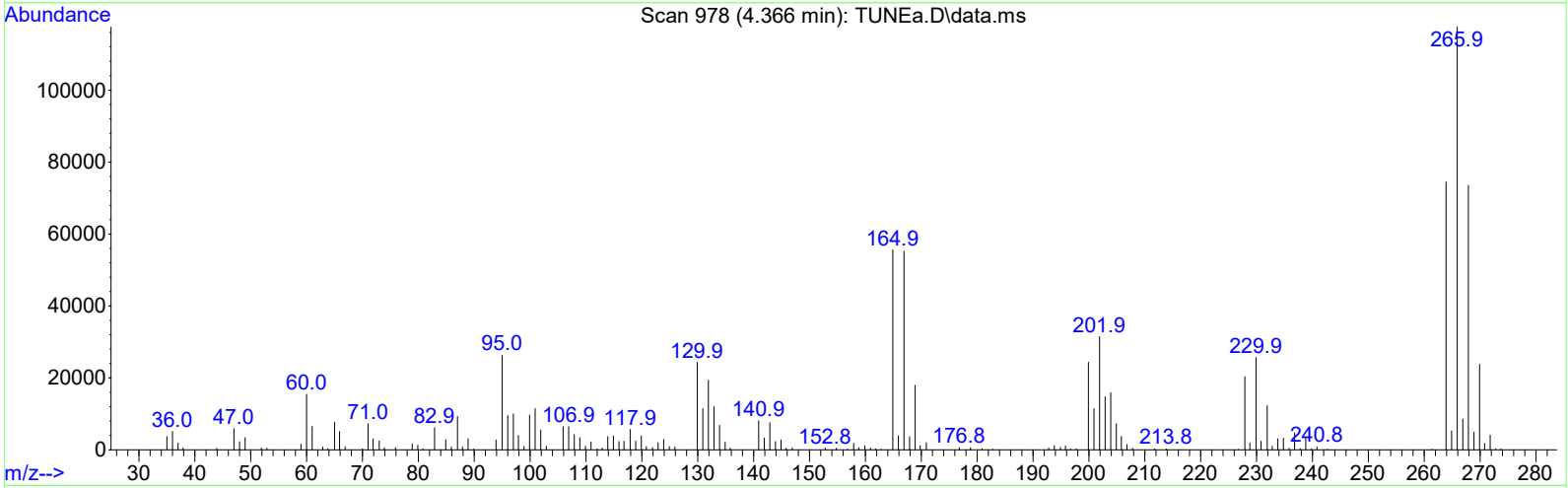
Ion	Exp%	Act%
235.10	100.00	100.00
237.00	65.60	63.83
165.10	53.30	52.31
199.10	17.10	16.53

Quantitation Report (Qedit)

Data Path : I:\8270SIM\SV128\231211LVIical\
Data File : TUNEa.D
Acq On : 13 Dec 2023 06:43 am
Operator : SV128:dv
Sample : TUNEa
Misc : WG1864557,,ical
ALS Vial : 48 Sample Multiplier: 1

Quant Time: Dec 13 07:09:11 2023
Quant Method : I:\8270SIM\SV128\231211LVIical\dftppsv128.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Nov 10 08:59:52 2023
Response via : Continuing Cal File: C:\ENVDEMO\BNADATA\DLWB002.D





TIC: TUNEa.D\data.ms

(1) pentachlorophenol (T)

4.366min (-0.256) 29.13

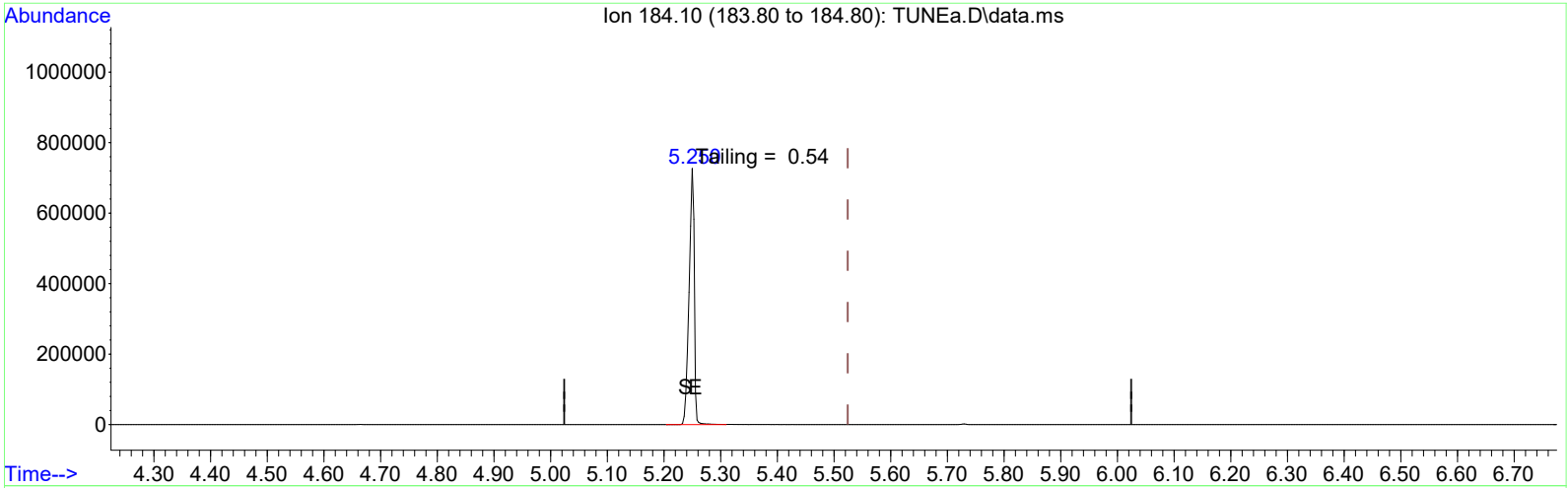
response 61186

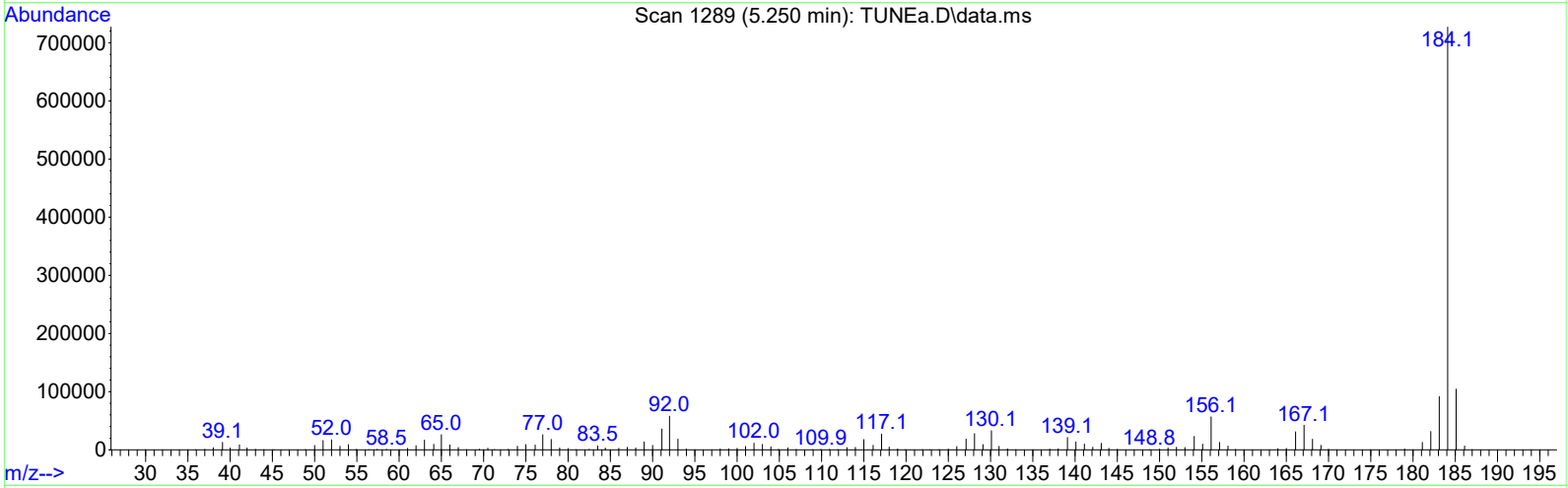
Ion	Exp%	Act%
265.90	100.00	100.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\8270SIM\SV128\231211LVIical\
Data File : TUNEa.D
Acq On : 13 Dec 2023 06:43 am
Operator : SV128:dv
Sample : TUNEa
Misc : WG1864557,,ical
ALS Vial : 48 Sample Multiplier: 1

Quant Time: Dec 13 07:09:11 2023
Quant Method : I:\8270SIM\SV128\231211LVIical\dftppsv128.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Nov 10 08:59:52 2023
Response via : Continuing Cal File: C:\ENVDEMO\BNADATA\DLWB002.D





TIC: TUNEa.D\data.ms

(3) benzidine (T)

5.250min (-0.275) 45.33

response 461477

Ion	Exp%	Act%
184.10	100.00	100.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV128\231211LVIical\
Data File : IL1a.D
Acq On : 13 Dec 2023 07:14 am
Operator : SV128:dv
Sample : IL1,32,, 0.005 Lot#10235
Misc : WG1864557,,ical
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Dec 15 14:18:03 2023
Quant Method : I:\8270SIM\SV128\231211LVIical\SIM-LVI_231211_sv128.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Dec 15 13:42:32 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\SV128\231211LVIical\IL7.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.007	152	3658	4000.000	ng/ml	0.00
Standard Area 1 = 2982			Recovery = 122.67%			
8) Naphthalene-d8	2.669	136	12572	4000.000	ng/ml	0.00
Standard Area 1 = 10566			Recovery = 118.99%			
17) Acenaphthene-d10	3.650	164	7113	4000.000	ng/ml	0.00
Standard Area 1 = 6070			Recovery = 117.18%			
22) Phenanthrene-d10	4.499	188	16727	4000.000	ng/ml	0.02
Standard Area 1 = 13526			Recovery = 123.67%			
31) Chrysene-d12	6.039	240	17171	4000.000	ng/ml	0.02
Standard Area 1 = 12766			Recovery = 134.51%			
36) Perylene-d12	7.131	264	18670	4000.000	ng/ml	0.03
Standard Area 1 = 15414			Recovery = 121.12%			
System Monitoring Compounds						
2) 2-Fluorophenol	0.000	112	0	0.000	ng/ml	
Spiked Amount 5000.000	Range 15 - 110		Recovery = 0.00%#			
3) Phenol-d6	0.000	99	0	0.000	ng/ml	
Spiked Amount 5000.000	Range 15 - 110		Recovery = 0.00%#			
7) Nitrobenzene-d5	0.000	82	0	0.000	ng/ml	
Spiked Amount 2500.000	Range 30 - 130		Recovery = 0.00%#			
13) 2-Fluorobiphenyl	0.000	172	0d	0.000	ng/ml	
Spiked Amount 2500.000	Range 30 - 130		Recovery = 0.00%#			
21) 2,4,6-Tribromophenol	0.000	330	0	0.000	ng/ml	
Spiked Amount 5000.000	Range 15 - 110		Recovery = 0.00%#			
30) 4-Terphenyl-d14	0.000	244	0d	0.000	ng/ml	
Spiked Amount 2500.000	Range 30 - 130		Recovery = 0.00%#			

Target Compounds			Qvalue
4) Bis(2-chloroethyl)ether	0.000	0	N.D.
5) n-nitrosodi-n-propylamine	0.000	0	N.D.
6) Hexachloroethane	0.000	0	N.D.
9) Naphthalene	0.000	0	N.D. d
10) Hexachlorobutadiene	0.000	0	N.D.
11) 2-Methylnaphthalene	0.000	0	N.D. d
12) 1-Methylnaphthalene	0.000	0	N.D. d
14) 2-Chloronaphthalene	0.000	0	N.D. d
15) 2,6-Dinitrotoluene	0.000	0	N.D. d
16) Acenaphthylene	0.000	0	N.D. d
18) Acenaphthene	0.000	0	N.D. d

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV128\231211LVIical\
Data File : IL1a.D
Acq On : 13 Dec 2023 07:14 am
Operator : SV128:dv
Sample : IL1,32,, 0.005 Lot#10235
Misc : WG1864557,,ical
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Dec 15 14:18:03 2023
Quant Method : I:\8270SIM\SV128\231211LVIical\SIM-LVI_231211_sv128.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Dec 15 13:42:32 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\SV128\231211LVIical\IL7.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
19) 2,4-Dinitrotoluene	0.000		0	N.D.		
20) Fluorene	0.000		0	N.D.	d	
23) 4,6-Dinitro-o-cresol	0.000		0	N.D.	d	
24) Hexachlorobenzene	4.284	284	6M2	5.438	ng/ml	
25) Pentachlorophenol	0.000		0	N.D.	d	
26) Phenanthrene	0.000		0	N.D.	d	
27) Anthracene	0.000		0	N.D.	d	
28) Fluoranthene	0.000		0	N.D.	d	
29) Pyrene	0.000		0	N.D.	d	
32) Benzo[a]anthracene	0.000		0	N.D.	d	
33) 3,3'-Dichlorobenzidine	0.000		0	N.D.	d	
34) Chrysene	0.000		0	N.D.	d	
35) Bis(2-ethylhexyl)phtha...	0.000		0	N.D.	d	
37) Benzo[b]fluoranthene	0.000		0	N.D.	d	
38) Benzo[k]fluoranthene	0.000		0	N.D.	d	
39) Benzo[a]pyrene	0.000		0	N.D.	d	
40) Indeno[1,2,3-cd]pyrene	0.000		0	N.D.		
41) Dibenzo[a,h]anthracene	0.000		0	N.D.	d	
42) Benzo[g,h,i]perylene	0.000		0	N.D.	d	

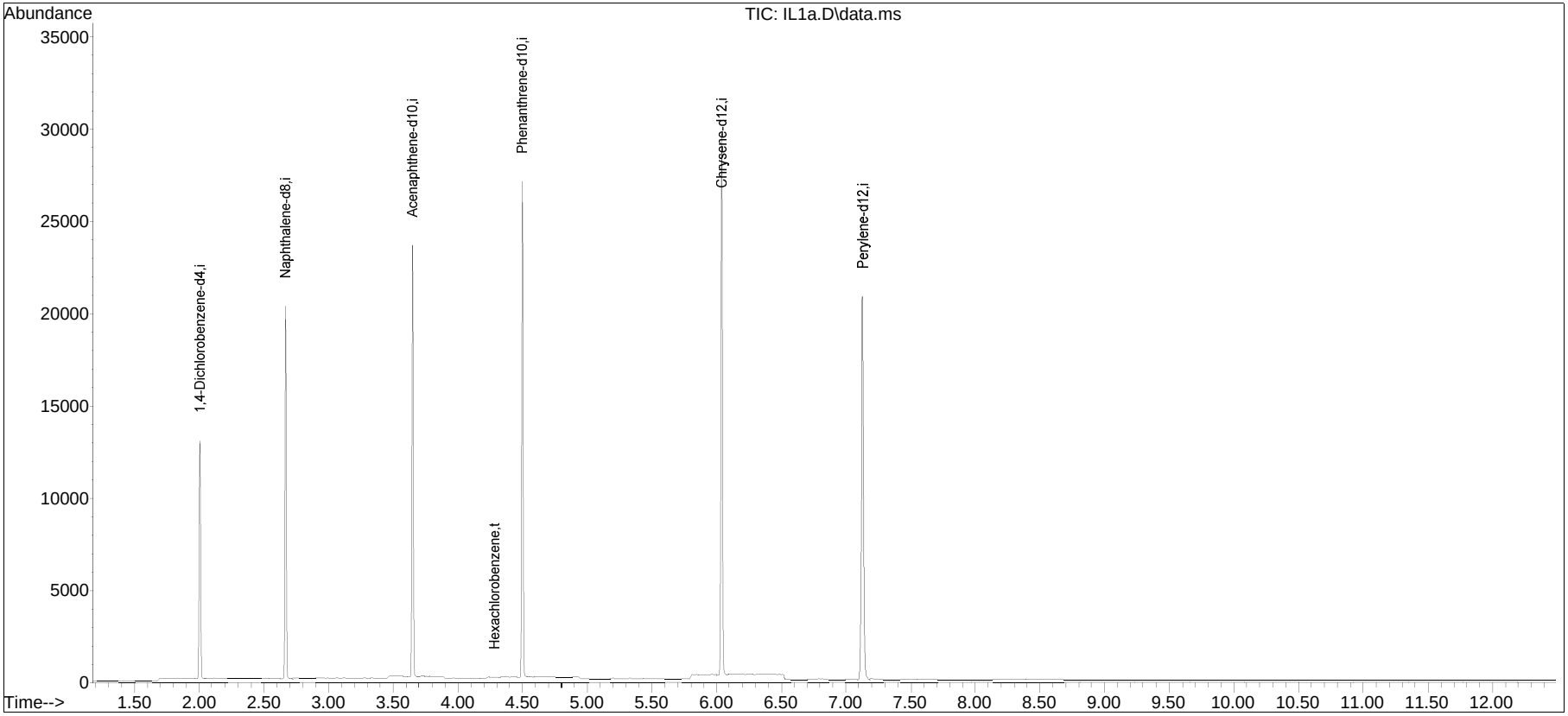
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV128\231211LVIical\
Data File : IL1a.D
Acq On : 13 Dec 2023 07:14 am
Operator : SV128:dv
Sample : IL1,32,, 0.005 Lot#10235
Misc : WG1864557,,ical
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Dec 15 14:18:03 2023
Quant Method : I:\8270SIM\SV128\231211LVIical\SIM-LVI_231211_sv128.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Dec 15 13:42:32 2023
Response via : Initial Calibration

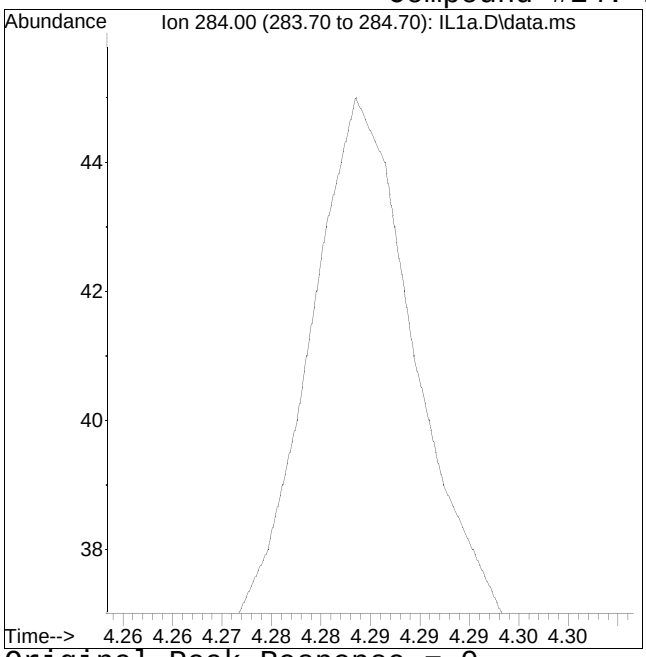
Sub List : Default - All compounds listedical\IL7.D•



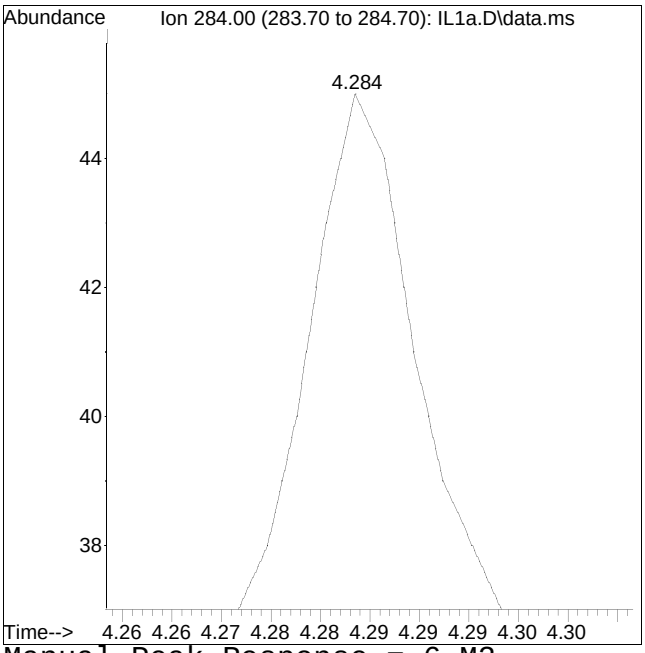
Manual Integration Report

Data Path : I:\8270SIM\SV128\231211LVIQ
Data File : IL1a.D
Date Inj'd : 12/13/2023 7:14 am
Sample : IL1,32,, 0.005 Lot#10235
Method : SIM-LVI_231211_sv128.M
Operator : SV128:dv
Instrument : SV128
Quant Date : 12/15/2023 1:42 pm

Compound #24: Hexachlorobenzene



Original Peak Response = 0



Manual Peak Response = 6 M2

M2 = Peak not found by automatic integration algorithm.

Evaluate Continuing Calibration Report

Data Path : I:\8270SIM\SV128\231211LVIical\
Data File : ICVa.D
Acq On : 13 Dec 2023 07:30 am
Operator : SV128:dv
Sample : CQICV,32,, 1.0 Lot#10193
Misc : WG1864557,,ical
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Dec 15 14:50:16 2023
Quant Method : I:\8270SIM\SV128\231211LVIical\SIM-LVI_231211_sv128.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Dec 15 14:46:27 2023
Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	i	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	128	0.00
2	s	2-Fluorophenol	1.007	1.037	-3.0	124	0.00
3	s	Phenol-d6	1.177	1.239	-5.3	127	0.00
4	T	Bis(2-chloroethyl)ether	1.005	1.070	-6.5	134	0.00
5	T	n-nitrosodi-n-propylamine	0.702	0.753	-7.3	129	0.00
6	t	Hexachloroethane	0.478	0.488	-2.1	126	0.00
7	s	Nitrobenzene-d5	0.951	0.962	-1.2	121	0.00
8	i	Naphthalene-d8	1.000	1.000	0.0	129	0.00
9	t	Naphthalene	1.026	1.073	-4.6	132	0.00
10	t	Hexachlorobutadiene	0.235	0.250	-6.4	137	0.00
11	t	2-Methylnaphthalene	0.655	0.710	-8.4	133	0.00
12	t	1-Methylnaphthalene	0.617	0.686	-11.2	137	0.00
13	s	2-Fluorobiphenyl	0.848	0.920	-8.5	131	0.00
14	t	2-Chloronaphthalene	0.713	0.789	-10.7	135	0.00
15	t	2,6-Dinitrotoluene	*1000.000	1011.588	-1.2	136	0.00
16	t	Acenaphthylene	1.057	1.218	-15.2	138	0.00
17	i	Acenaphthene-d10	1.000	1.000	0.0	135	0.00
18	t	Acenaphthene	1.352	1.393	-3.0	135	0.00
19	t	2,4-Dinitrotoluene	*1000.000	956.844	4.3	137	0.00
20	t	Fluorene	1.365	1.571	-15.1	145	0.00
21	s	2,4,6-Tribromophenol	0.200	0.229	-14.5	145	0.00
22	i	Phenanthrene-d10	1.000	1.000	0.0	142	0.00
23	T	4,6-Dinitro-o-cresol	*1000.000	840.102	16.0	136	0.00
24	t	Hexachlorobenzene	0.266	0.298	-12.0	159	0.00
25	t	Pentachlorophenol	*1000.000	992.296	0.8	136	0.00
26	t	Phenanthrene	1.082	1.146	-5.9	149	0.00
27	t	Anthracene	1.045	1.114	-6.6	147	0.00
28	t	Fluoranthene	1.188	1.389	-16.9	157	0.00
29	t	Pyrene	1.230	1.476	-20.0	155	0.00
30	s	4-Terphenyl-d14	0.833	0.948	-13.8	148	0.00
31	i	Chrysene-d12	1.000	1.000	0.0	149	0.00
32	t	Benzo[a]anthracene	*1000.000	1041.854	-4.2	157	0.00
33	t	3,3'-Dichlorobenzidine	*1000.000	905.755	9.4	147	0.00
34	t	Chrysene	1.379	1.437	-4.2	150	0.00
35	T	Bis(2-ethylhexyl)phthalate	*1000.000	966.341	3.4	167	0.00

Evaluate Continuing Calibration Report

Data Path : I:\8270SIM\SV128\231211LVIical\
Data File : ICVa.D
Acq On : 13 Dec 2023 07:30 am
Operator : SV128:dv
Sample : CQICV,32,, 1.0 Lot#10193
Misc : WG1864557,,ical
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Dec 15 14:50:16 2023
Quant Method : I:\8270SIM\SV128\231211LVIical\SIM-LVI_231211_sv128.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Dec 15 14:46:27 2023
Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
36	i	Perylene-d12	1.000	1.000	0.0	135	0.00
37	t	Benzo[b]fluoranthene	1.239	1.337	-7.9	143	0.00
38	t	Benzo[k]fluoranthene	1.153	1.268	-10.0	144	0.00
39	t	Benzo[a]pyrene	1.091	1.113	-2.0	132	0.00
40	t	Indeno[1,2,3-cd]pyrene	1.091	1.063	2.6	126	0.00
41	t	Dibenzo[a,h]anthracene	1.059	1.111	-4.9	128	-0.01
42	t	Benzo[g,h,i]perylene	1.134	1.108	2.3	122	-0.02

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV128\231211LVIical\
Data File : ICVa.D
Acq On : 13 Dec 2023 07:30 am
Operator : SV128:dv
Sample : CQICV,32,, 1.0 Lot#10193
Misc : WG1864557,,ical
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Dec 15 14:50:16 2023
Quant Method : I:\8270SIM\SV128\231211LVIical\SIM-LVI_231211_sv128.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Dec 15 14:46:27 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\SV128\231211LVIical\IL7.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.013	152	3803	4000.000	ng/ml	0.00
Standard Area 1 = 2982			Recovery = 127.53%			
8) Naphthalene-d8	2.670	136	13634	4000.000	ng/ml	0.00
Standard Area 1 = 10566			Recovery = 129.04%			
17) Acenaphthene-d10	3.638	164	8164	4000.000	ng/ml	0.00
Standard Area 1 = 6068			Recovery = 134.54%			
22) Phenanthrene-d10	4.482	188	19146	4000.000	ng/ml	0.00
Standard Area 1 = 13526			Recovery = 141.55%			
31) Chrysene-d12	6.017	240	19021	4000.000	ng/ml	0.00
Standard Area 1 = 12773			Recovery = 148.92%			
36) Perylene-d12	7.098	264	20705	4000.000	ng/ml	0.00
Standard Area 1 = 15389			Recovery = 134.54%			
System Monitoring Compounds						
2) 2-Fluorophenol	1.421	112	986	1029.595	ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 20.59%			
3) Phenol-d6	1.830	99	1178	1052.538	ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 21.05%			
7) Nitrobenzene-d5	2.291	82	915	1011.638	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 40.47%			
13) 2-Fluorobiphenyl	3.268	172	3137	1084.951	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 43.40%			
21) 2,4,6-Tribromophenol	4.087	330	468	1147.149	ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 22.94%			
30) 4-Terphenyl-d14	5.415	244	4538	1137.684	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 45.51%			
Target Compounds						Qvalue
4) Bis(2-chloroethyl)ether	1.882	93	1017	1063.947	ng/ml	98
5) n-nitrosodi-n-propylamine	2.217	70	716	1073.002	ng/ml	98
6) Hexachloroethane	2.266	117	464	1021.610	ng/ml	100
9) Naphthalene	2.679	128	3657	1045.953	ng/ml#	100
10) Hexachlorobutadiene	2.755	225	851	1062.554	ng/ml	97
11) 2-Methylnaphthalene	3.058	142	2421	1083.939	ng/ml	98
12) 1-Methylnaphthalene	3.112	142	2338	1111.555	ng/ml	100
14) 2-Chloronaphthalene	3.326	162	2688	1105.474	ng/ml	100
15) 2,6-Dinitrotoluene	3.525	165	437	1011.588	ng/ml	94
16) Acenaphthylene	3.555	152	4153	1152.979	ng/ml	99
18) Acenaphthene	3.656	153	2844	1030.521	ng/ml	100

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV128\231211LVIical\
Data File : ICVa.D
Acq On : 13 Dec 2023 07:30 am
Operator : SV128:dv
Sample : CQICV,32,, 1.0 Lot#10193
Misc : WG1864557,,ical
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Dec 15 14:50:16 2023
Quant Method : I:\8270SIM\SV128\231211LVIical\SIM-LVI_231211_sv128.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Dec 15 14:46:27 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\SV128\231211LVIical\IL7.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
19) 2,4-Dinitrotoluene	3.754	165	579	956.844	ng/ml	98
20) Fluorene	3.950	166	3206	1151.054	ng/ml	99
23) 4,6-Dinitro-o-cresol	3.983	198	311	840.102	ng/ml	99
24) Hexachlorobenzene	4.266	284	1424	1117.736	ng/ml	91
25) Pentachlorophenol	4.378	266	526	992.296	ng/ml	98
26) Phenanthrene	4.494	178	5486	1059.627	ng/ml	100
27) Anthracene	4.520	178	5333	1066.045	ng/ml	99
28) Fluoranthene	5.179	202	6647	1168.591	ng/ml	100
29) Pyrene	5.307	202	7064M6	1200.328	ng/ml	
32) Benzo[a]anthracene	6.011	228	7149	1041.854	ng/ml	100
33) 3,3'-Dichlorobenzidine	6.009	252	2423	905.755	ng/ml	100
34) Chrysene	6.033	228	6835	1042.316	ng/ml	99
35) Bis(2-ethylhexyl)phtha...	6.069	149	3228	966.341	ng/ml	100
37) Benzo[b]fluoranthene	6.768	252	6921	1079.393	ng/ml	100
38) Benzo[k]fluoranthene	6.790	252	6561	1099.564	ng/ml	100
39) Benzo[a]pyrene	7.042	252	5759	1019.966	ng/ml	100
40) Indeno[1,2,3-cd]pyrene	8.205	276	5501	974.346	ng/ml	99
41) Dibenzo[a,h]anthracene	8.243	278	5753	1049.156	ng/ml	96
42) Benzo[g,h,i]perylene	8.509	276	5736	977.442	ng/ml	98

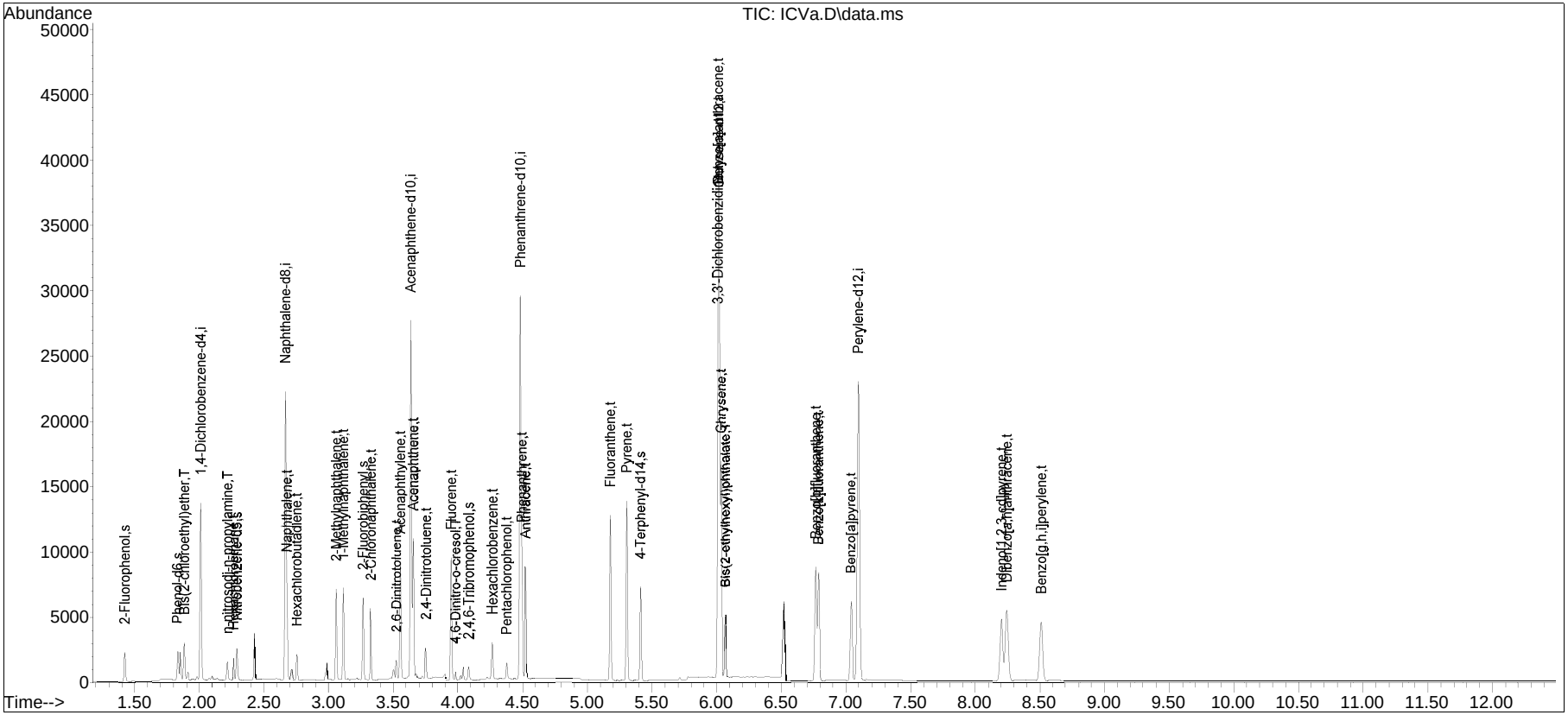
(#) = qualifier out of range (m) = manual integration (+) = signals summed

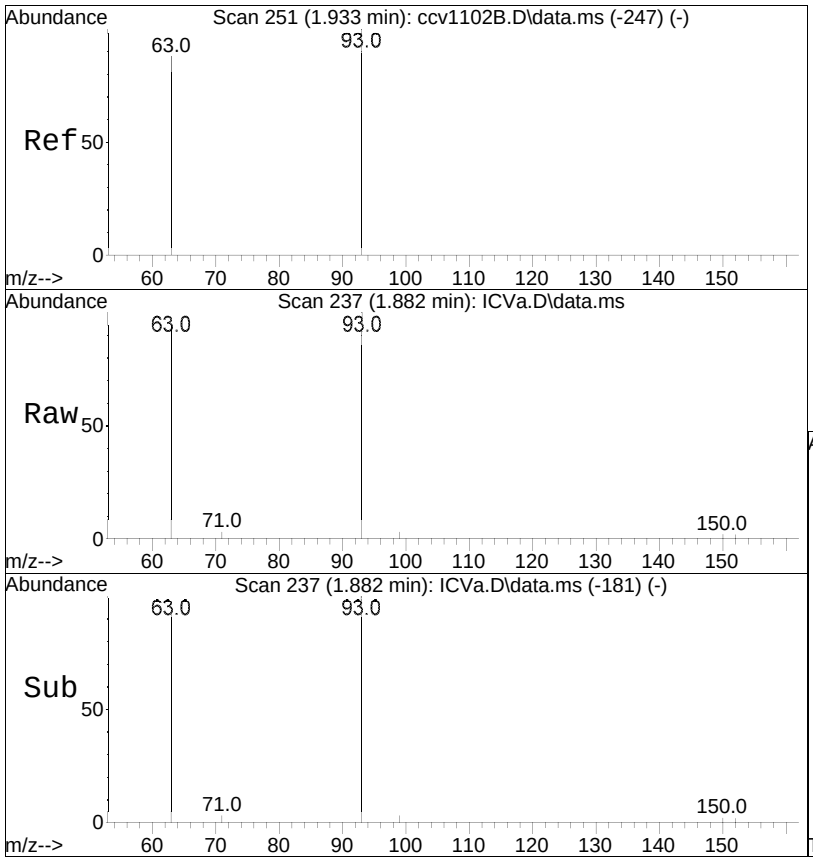
Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV128\231211LVIical\
Data File : ICVa.D
Acq On : 13 Dec 2023 07:30 am
Operator : SV128:dv
Sample : CQICV,32,, 1.0 Lot#10193
Misc : WG1864557,,ical
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Dec 15 14:50:16 2023
Quant Method : I:\8270SIM\SV128\231211LVIical\SIM-LVI_231211_sv128.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Dec 15 14:46:27 2023
Response via : Initial Calibration

Sub List : Default - All compounds listedical\IL7.D•

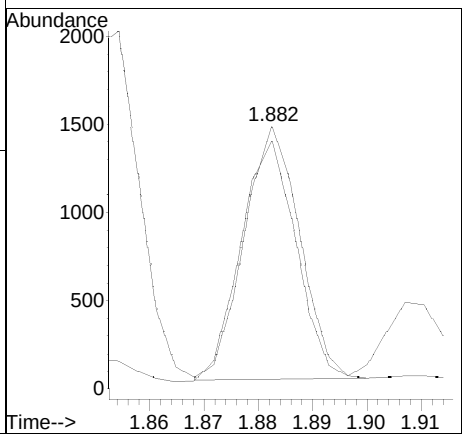


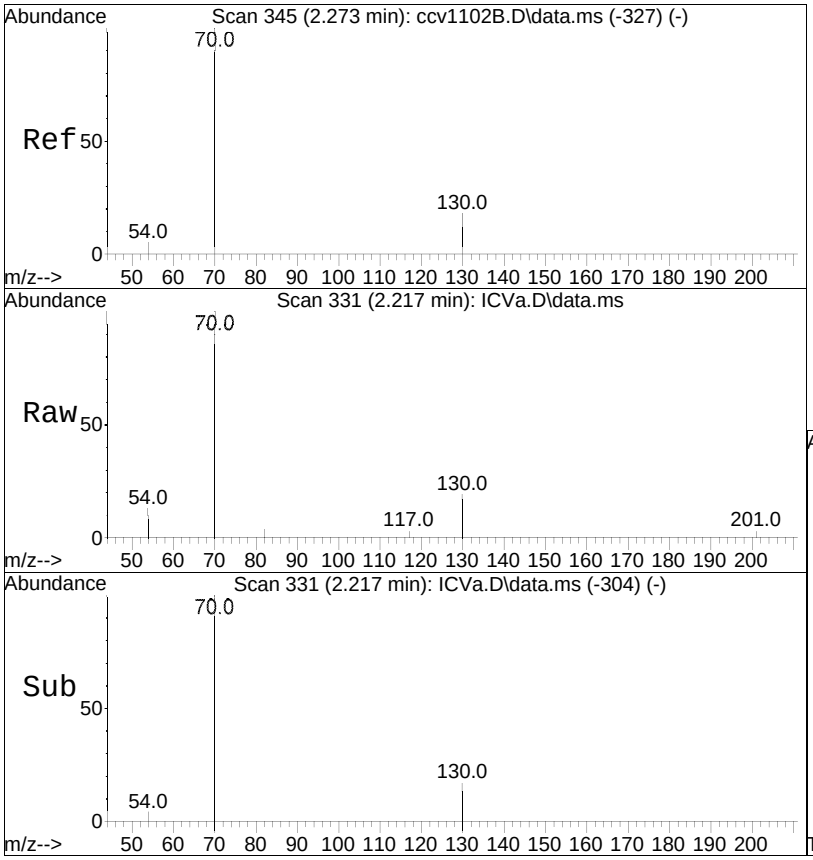


#4
Bis(2-chloroethyl)ether
Concen: 1063.95 ng/ml
RT: 1.882 min Scan# 237
Delta R.T. -0.002 min
Lab File: ICVa.D
Acq: 13 Dec 2023 07:30 am

Tgt Ion: 93 Resp: 1017

Ion	Ratio	Lower	Upper
93	100		
63	99.0	77.3	115.9

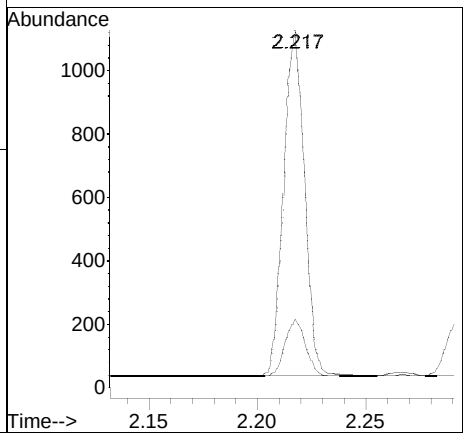


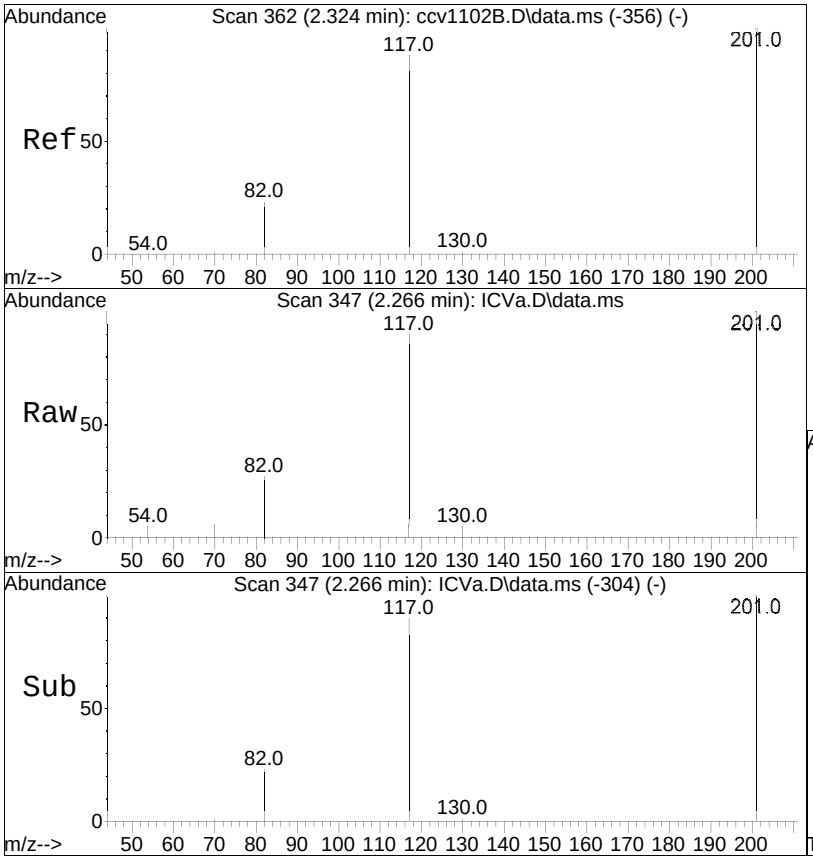


#5
n-nitrosodi-n-propylamine
Concen: 1073.00 ng/ml
RT: 2.217 min Scan# 331
Delta R.T. -0.003 min
Lab File: ICVa.D
Acq: 13 Dec 2023 07:30 am

Tgt Ion: 70 Resp: 716

Ion	Ratio	Lower	Upper
70	100		
130	16.3	13.6	20.4

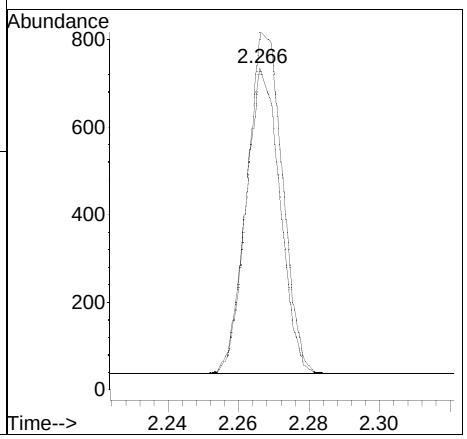


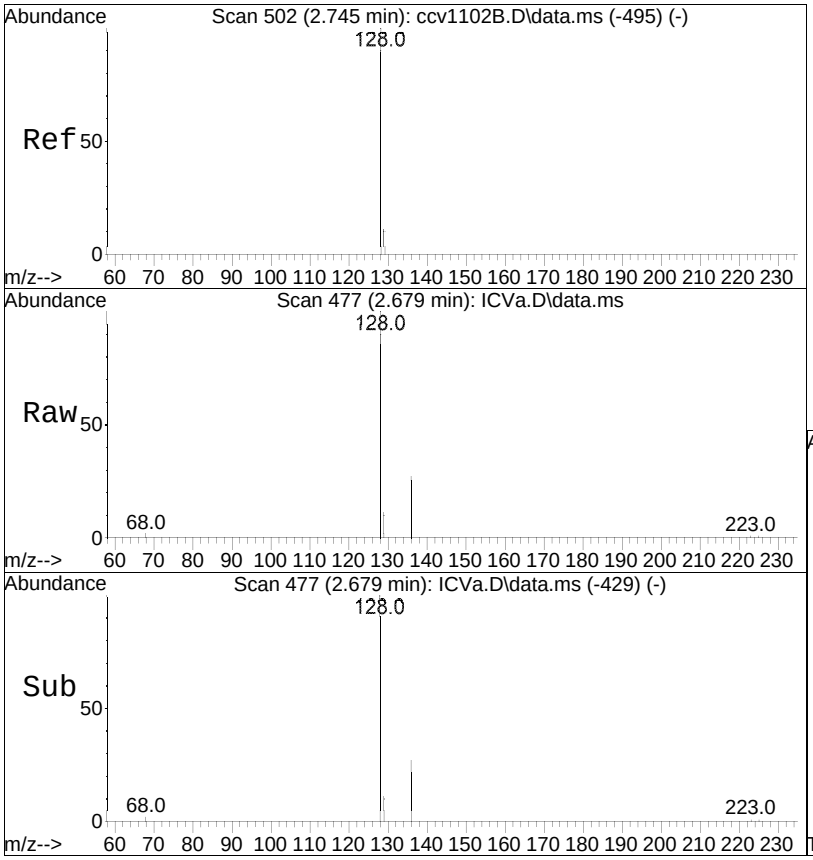


#6
Hexachloroethane
Concen: 1021.61 ng/ml
RT: 2.266 min Scan# 347
Delta R.T. -0.002 min
Lab File: ICVa.D
Acq: 13 Dec 2023 07:30 am

Tgt Ion:117 Resp: 464

Ion	Ratio	Lower	Upper
117	100		
201	115.1	91.8	137.6

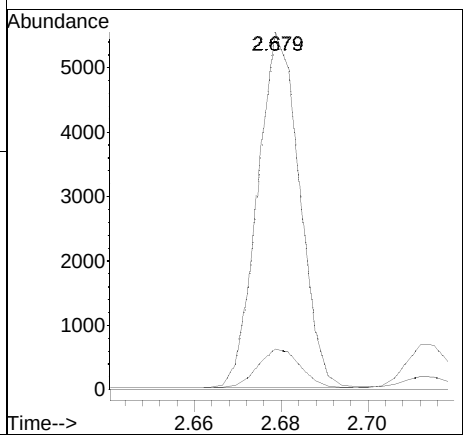


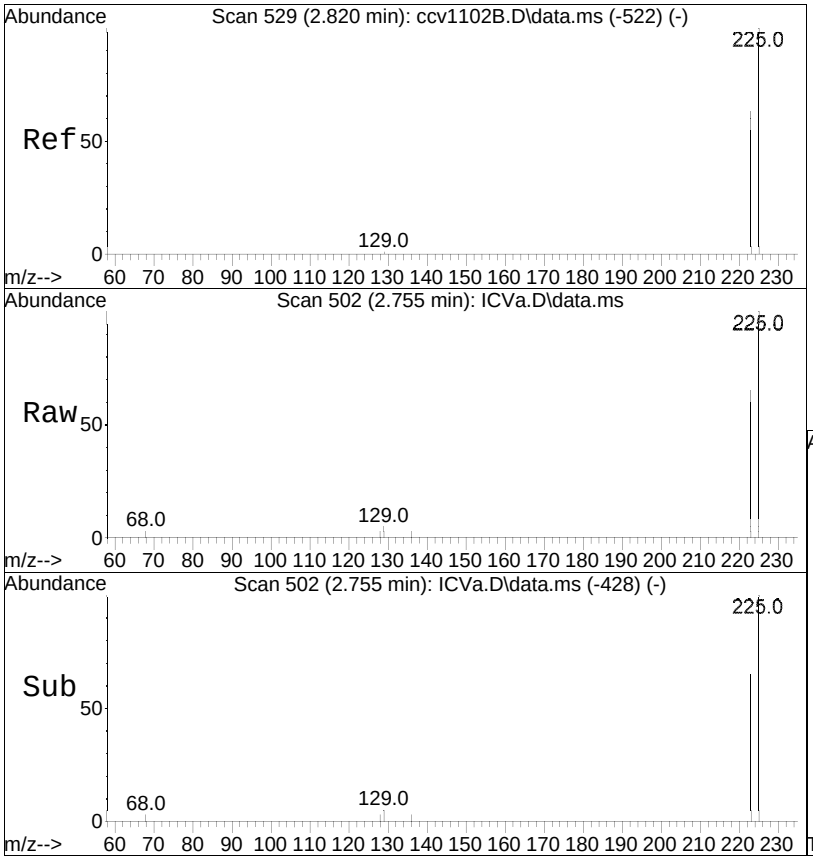


#9
Naphthalene
Concen: 1045.95 ng/ml
RT: 2.679 min Scan# 477
Delta R.T. -0.002 min
Lab File: ICVa.D
Acq: 13 Dec 2023 07:30 am

Tgt Ion:128 Resp: 3657

Ion	Ratio	Lower	Upper
128	100		
129	10.9	8.8	13.2
127	0.0	0.0	0.0

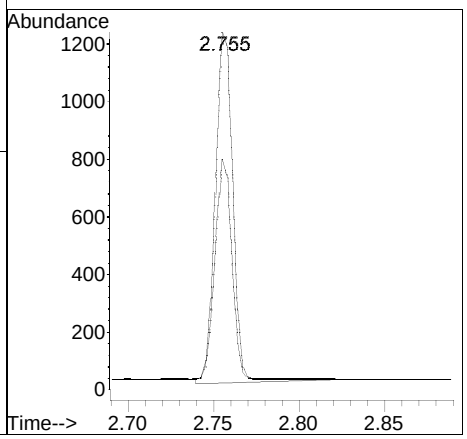


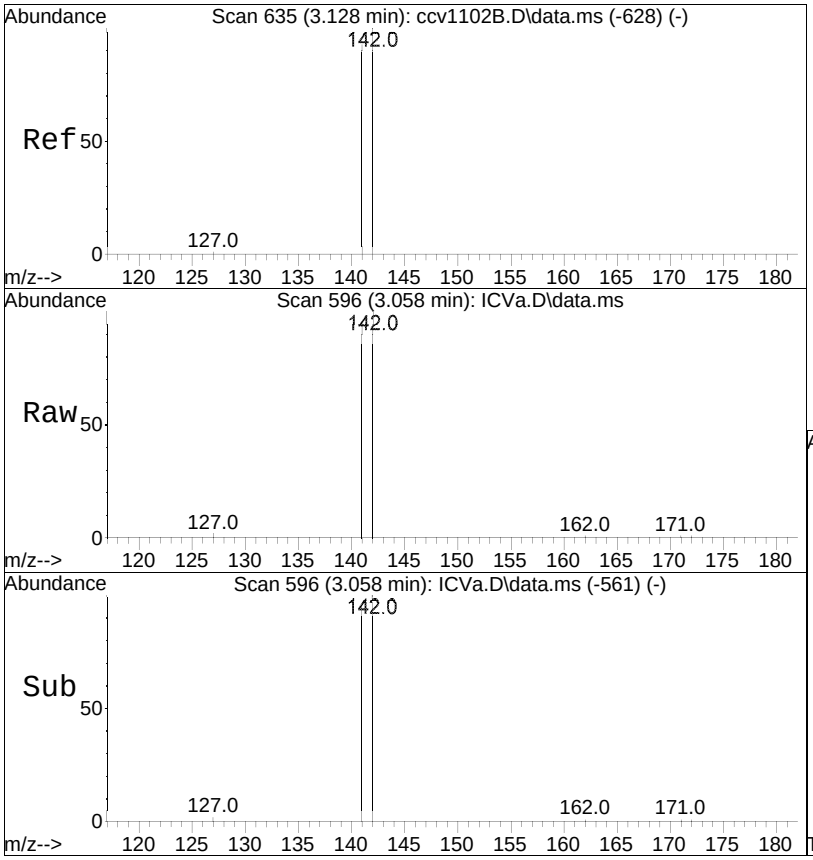


#10
Hexachlorobutadiene
Concen: 1062.55 ng/ml
RT: 2.755 min Scan# 502
Delta R.T. -0.002 min
Lab File: ICVa.D
Acq: 13 Dec 2023 07:30 am

Tgt Ion:225 Resp: 851

Ion	Ratio	Lower	Upper
225	100		
223	59.8	49.9	74.9

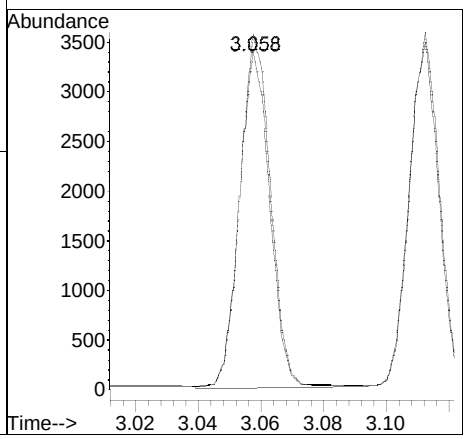


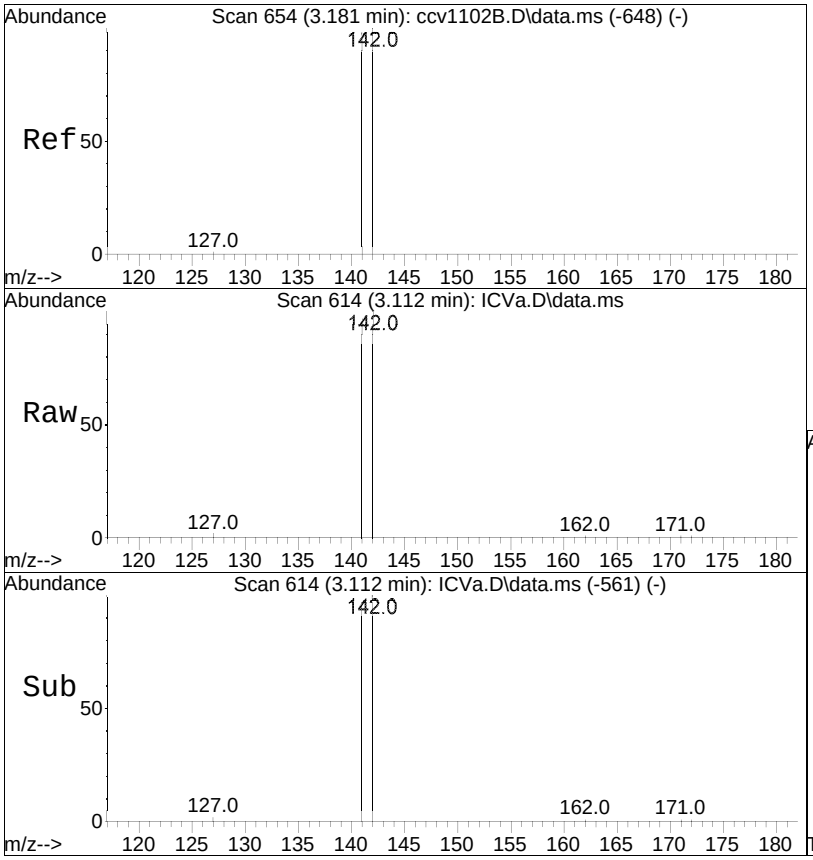


#11
2-Methylnaphthalene
Concen: 1083.94 ng/ml
RT: 3.058 min Scan# 596
Delta R.T. -0.002 min
Lab File: ICVa.D
Acq: 13 Dec 2023 07:30 am

Tgt Ion:142 Resp: 2421

Ion	Ratio	Lower	Upper
142	100		
141	92.7	75.9	113.9

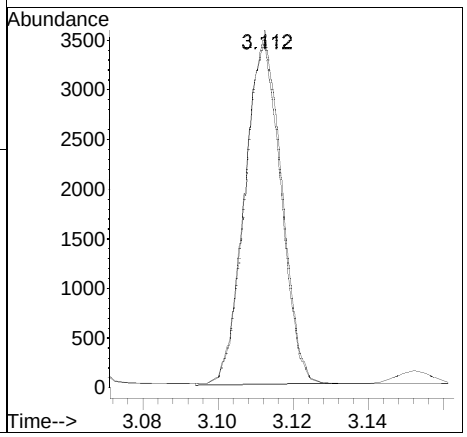


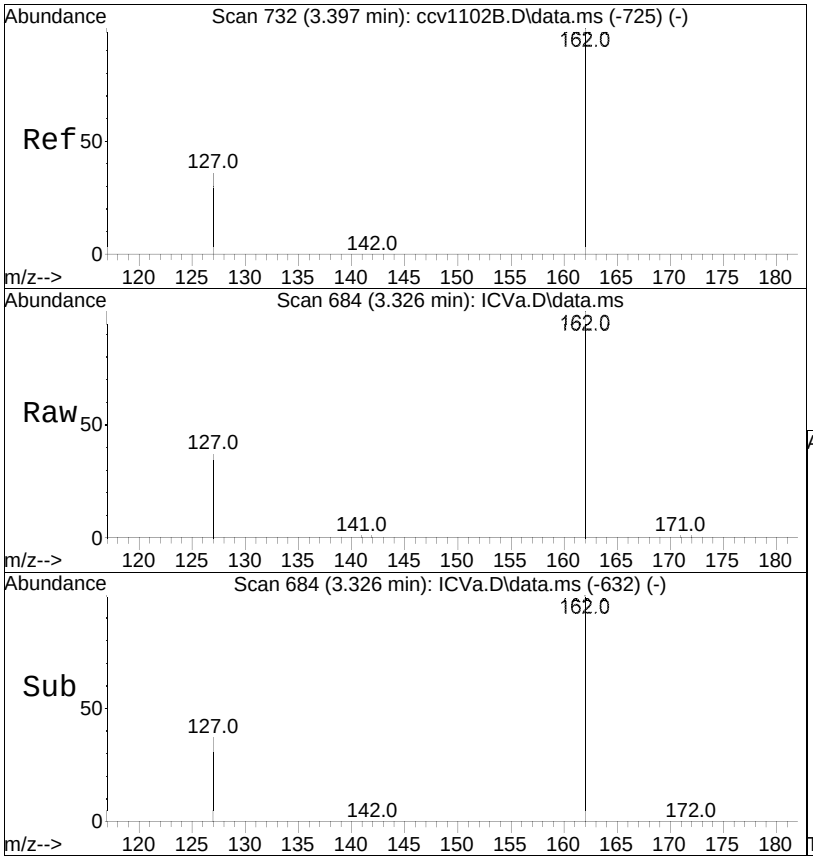


#12
1-Methylnaphthalene
Concen: 1111.55 ng/ml
RT: 3.112 min Scan# 614
Delta R.T. -0.003 min
Lab File: ICVa.D
Acq: 13 Dec 2023 07:30 am

Tgt Ion:142 Resp: 2338

Ion	Ratio	Lower	Upper
142	100		
141	97.6	77.9	116.9

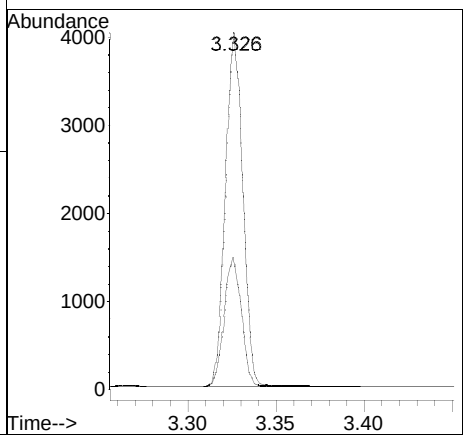


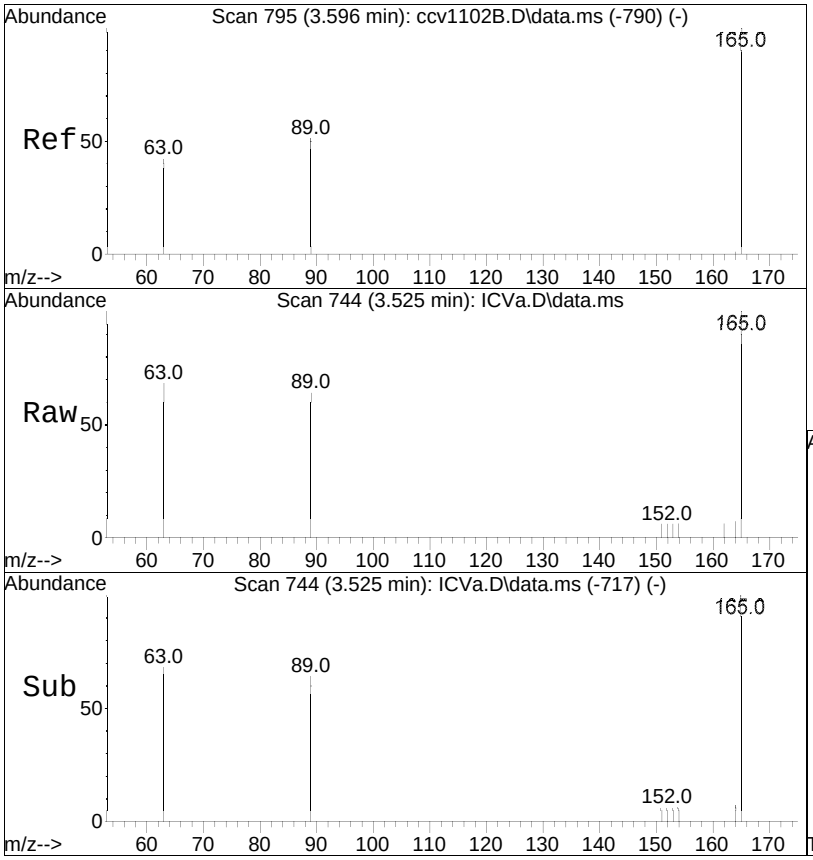


#14
2-Chloronaphthalene
Concen: 1105.47 ng/ml
RT: 3.326 min Scan# 684
Delta R.T. -0.002 min
Lab File: ICVa.D
Acq: 13 Dec 2023 07:30 am

Tgt Ion:162 Resp: 2688

Ion	Ratio	Lower	Upper
162	100		
127	36.5	29.3	43.9

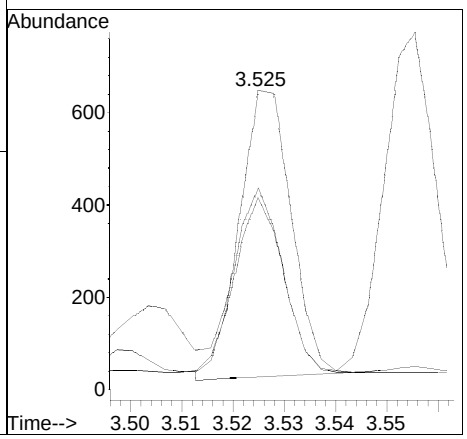


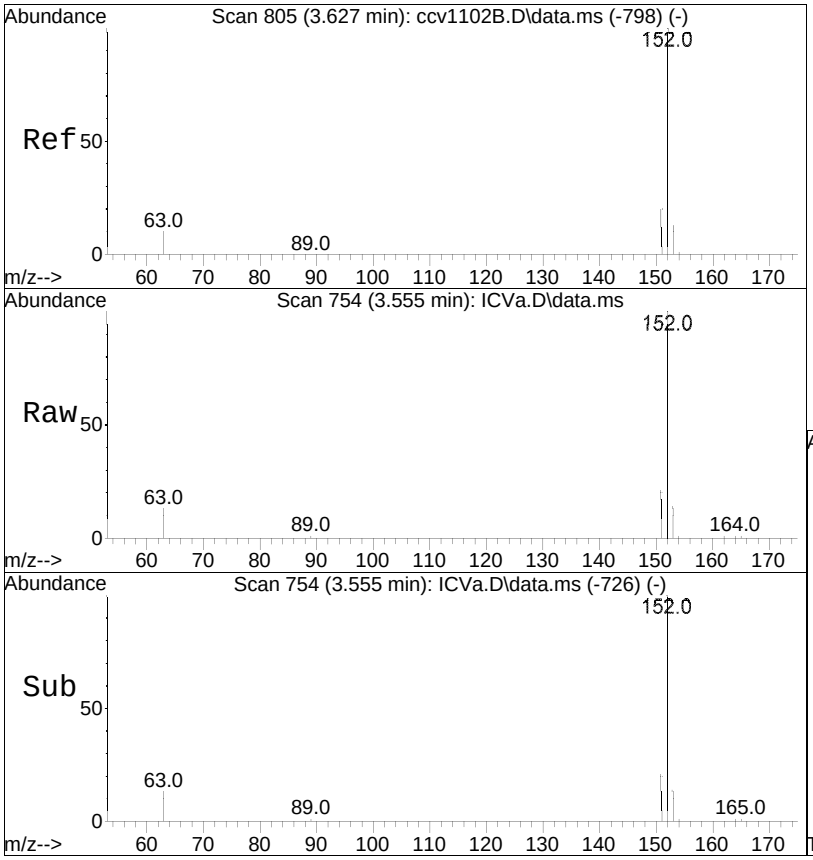


#15
2,6-Dinitrotoluene
Concen: 1011.59 ng/ml
RT: 3.525 min Scan# 744
Delta R.T. -0.002 min
Lab File: ICVa.D
Acq: 13 Dec 2023 07:30 am

Tgt Ion:165 Resp: 437

Ion	Ratio	Lower	Upper
165	100		
89	56.8	46.6	70.0
63	67.3	47.8	71.8

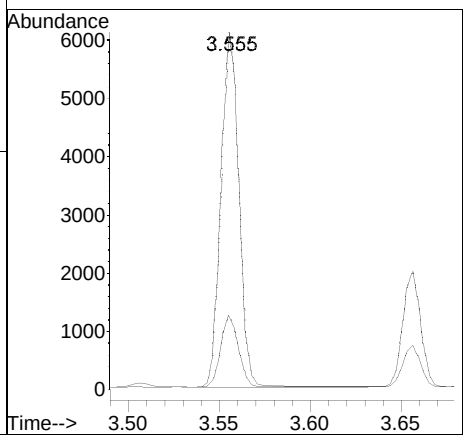


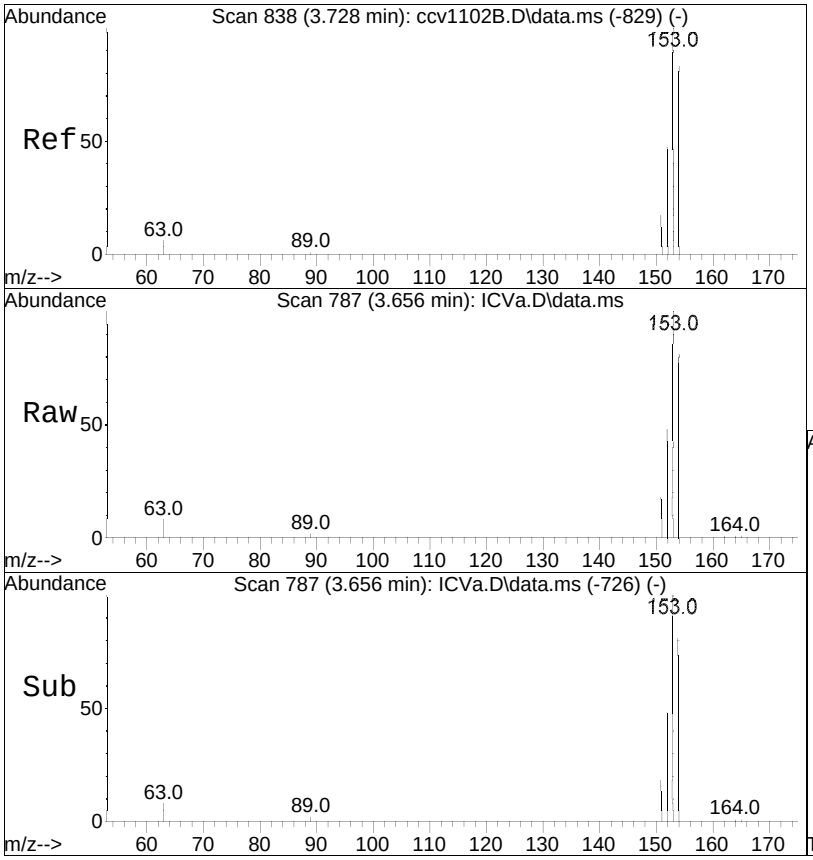


#16
Acenaphthylene
Concen: 1152.98 ng/ml
RT: 3.555 min Scan# 754
Delta R.T. -0.003 min
Lab File: ICVa.D
Acq: 13 Dec 2023 07:30 am

Tgt Ion:152 Resp: 4153

Ion	Ratio	Lower	Upper
152	100		
151	20.2	16.4	24.6

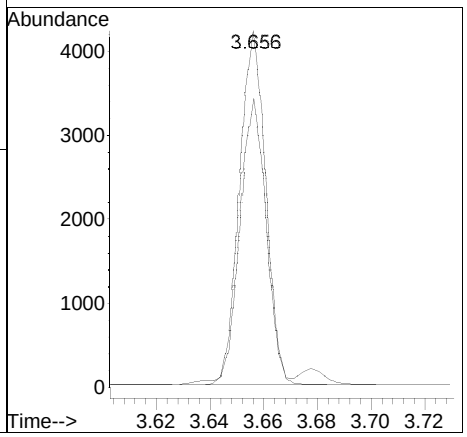


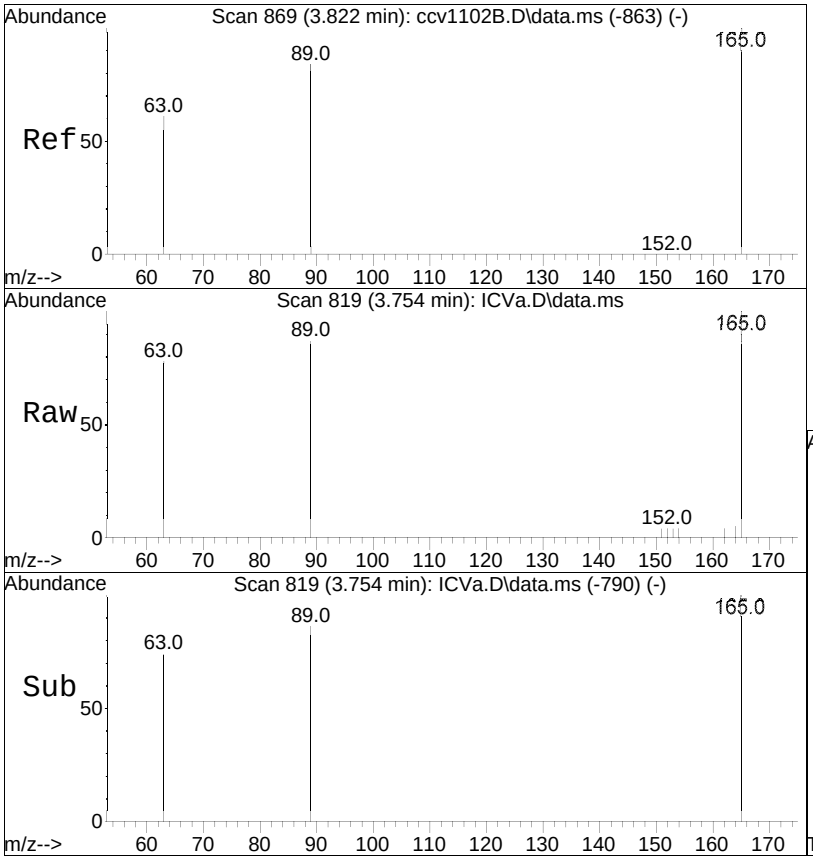


#18
Acenaphthene
Concen: 1030.52 ng/ml
RT: 3.656 min Scan# 787
Delta R.T. -0.002 min
Lab File: ICVa.D
Acq: 13 Dec 2023 07:30 am

Tgt Ion:153 Resp: 2844

Ion	Ratio	Lower	Upper
153	100		
154	82.0	65.8	98.6

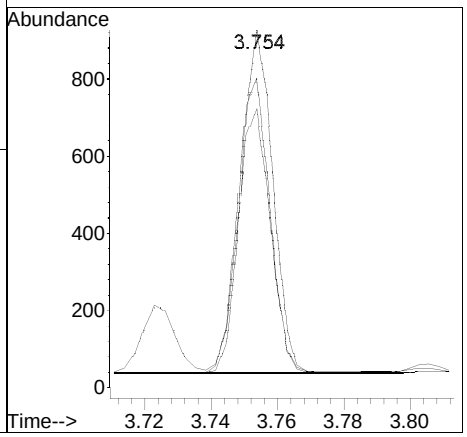


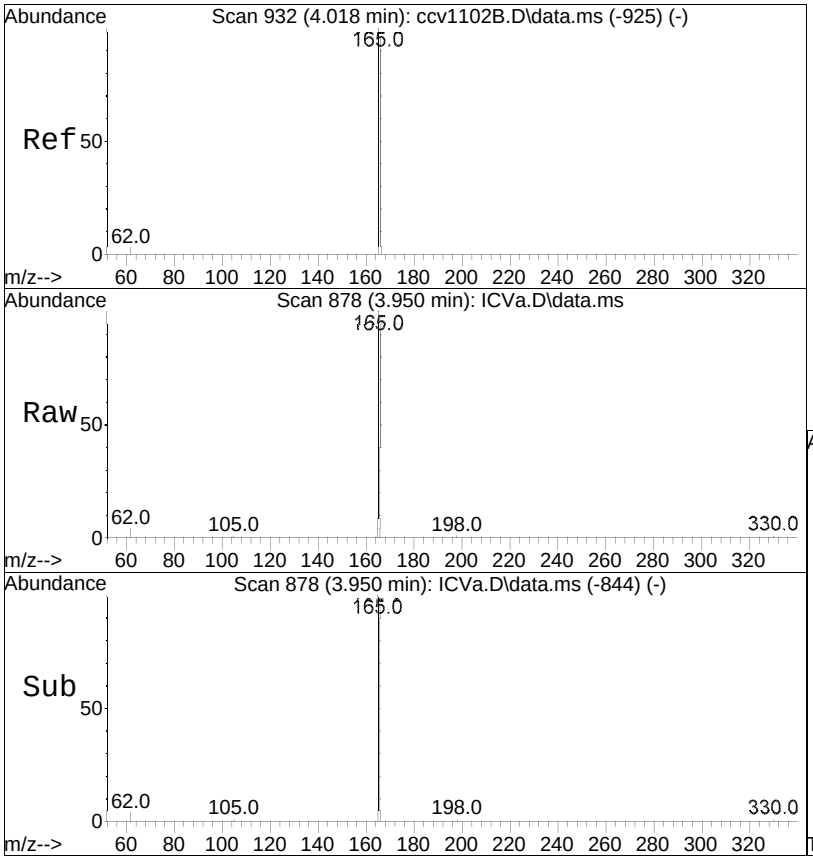


#19
2,4-Dinitrotoluene
Concen: 956.84 ng/ml
RT: 3.754 min Scan# 819
Delta R.T. -0.002 min
Lab File: ICVa.D
Acq: 13 Dec 2023 07:30 am

Tgt Ion:165 Resp: 579

Ion	Ratio	Lower	Upper
165	100		
89	89.5	70.6	105.8
63	80.1	62.7	94.1

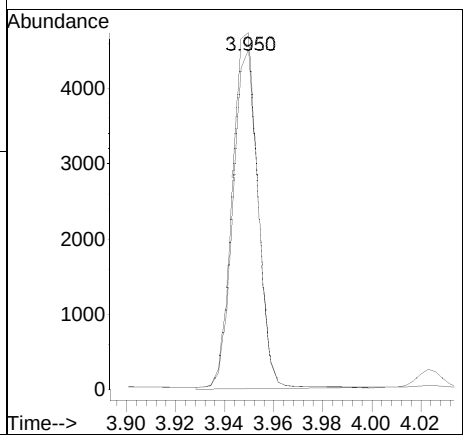


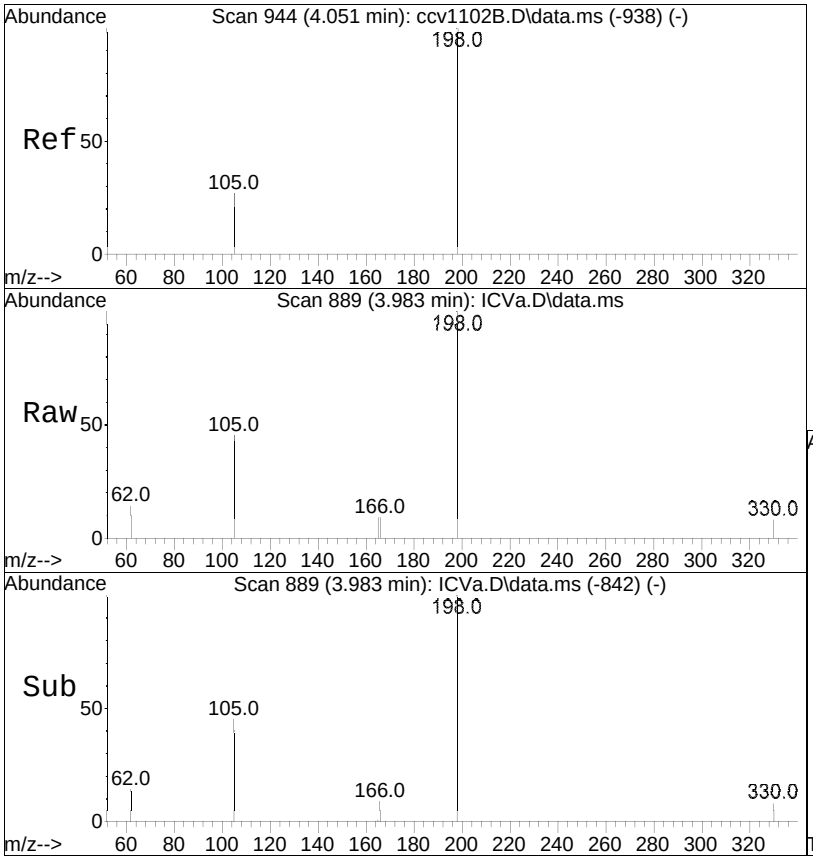


#20
Fluorene
Concen: 1151.05 ng/ml
RT: 3.950 min Scan# 878
Delta R.T. -0.002 min
Lab File: ICVa.D
Acq: 13 Dec 2023 07:30 am

Tgt Ion:166 Resp: 3206

Ion	Ratio	Lower	Upper
166	100		
165	106.1	85.7	128.5

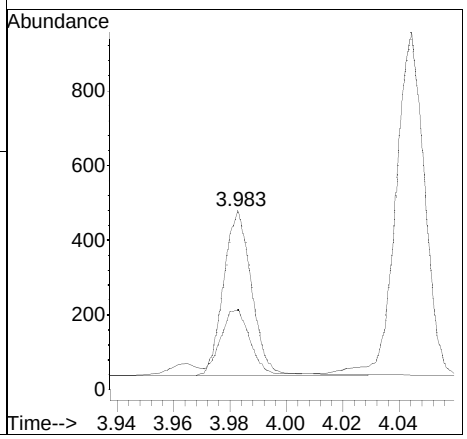


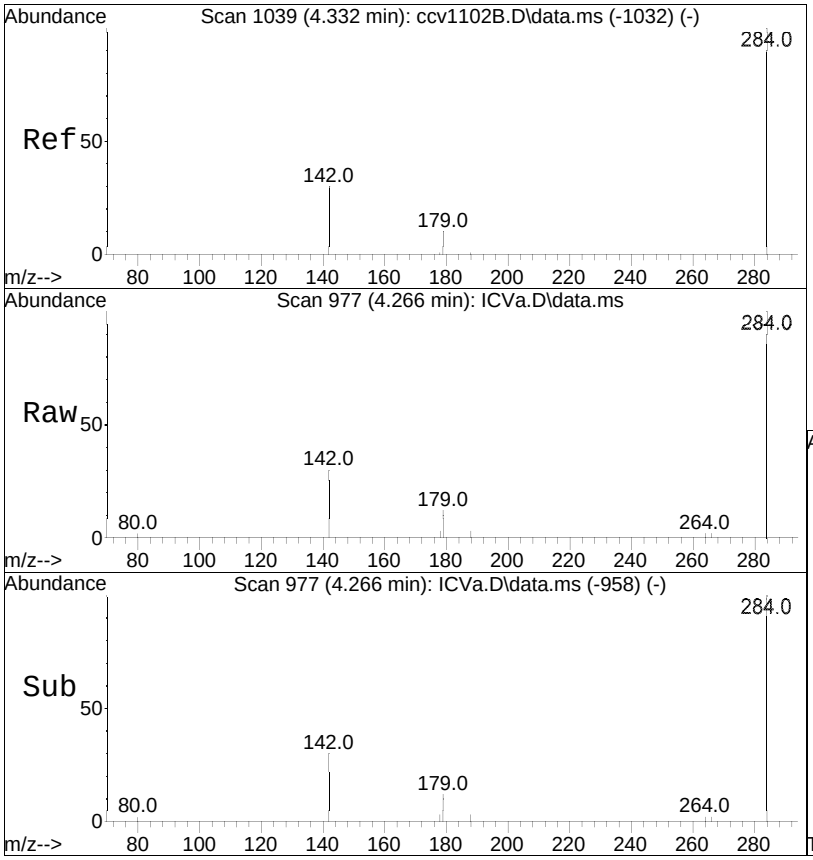


#23
4,6-Dinitro-o-cresol
Concen: 840.10 ng/ml
RT: 3.983 min Scan# 889
Delta R.T. -0.002 min
Lab File: ICVa.D
Acq: 13 Dec 2023 07:30 am

Tgt Ion:198 Resp: 311

Ion	Ratio	Lower	Upper
198	100		
105	40.2	31.4	47.2

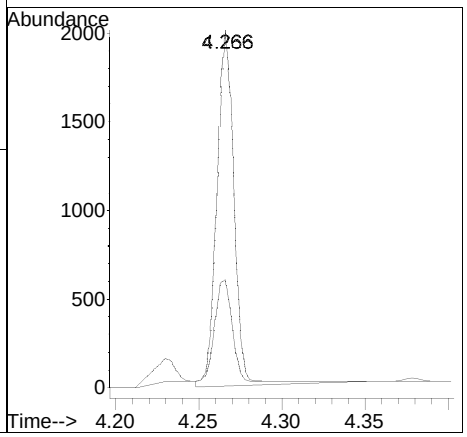


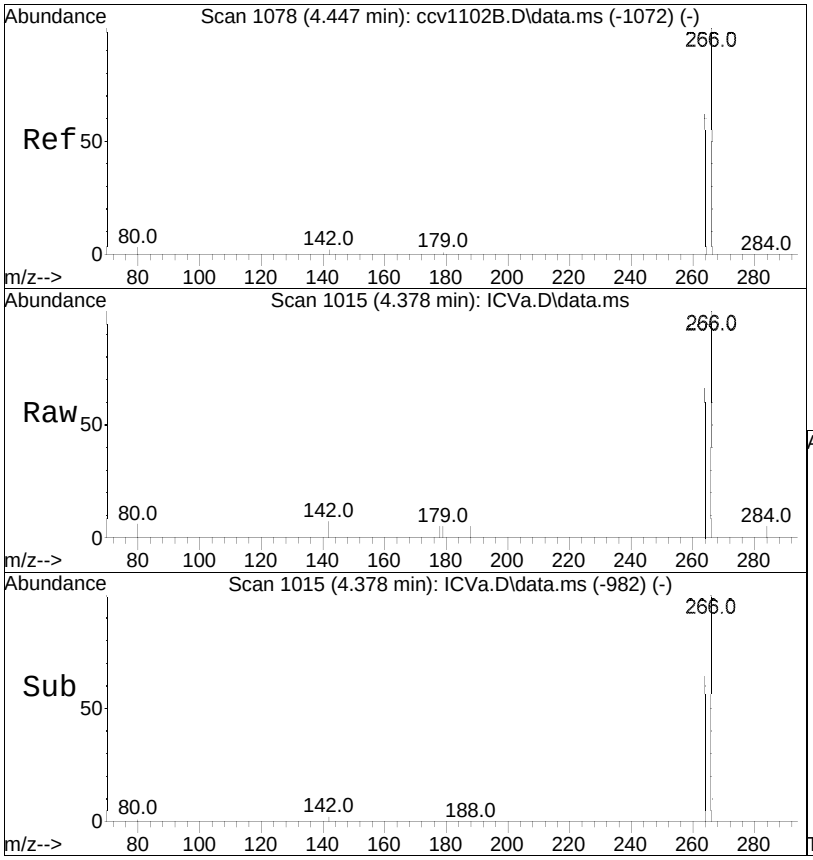


#24
Hexachlorobenzene
Concen: 1117.74 ng/ml
RT: 4.266 min Scan# 977
Delta R.T. -0.002 min
Lab File: ICVa.D
Acq: 13 Dec 2023 07:30 am

Tgt Ion:284 Resp: 1424

Ion	Ratio	Lower	Upper
284	100		
142	34.9	23.9	35.9

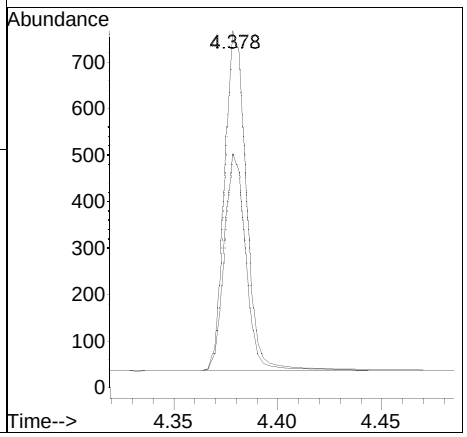


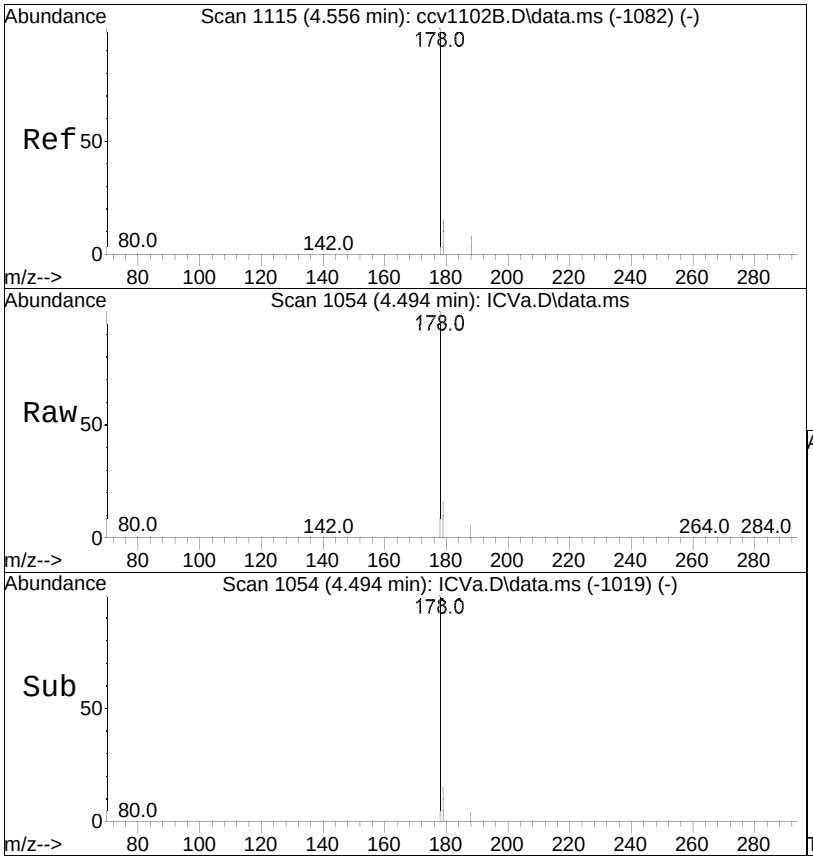


#25
Pentachlorophenol
Concen: 992.30 ng/ml
RT: 4.378 min Scan# 1015
Delta R.T. -0.006 min
Lab File: ICVa.D
Acq: 13 Dec 2023 07:30 am

Tgt Ion:266 Resp: 526

Ion	Ratio	Lower	Upper
266	100		
264	63.3	49.7	74.5

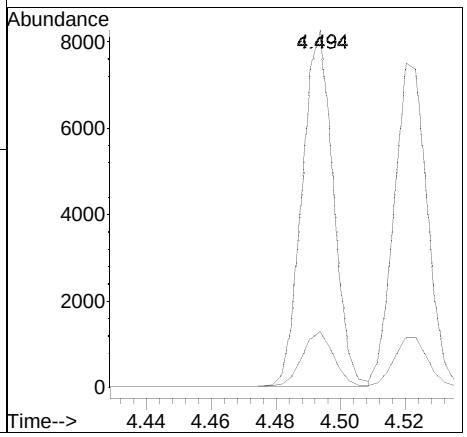


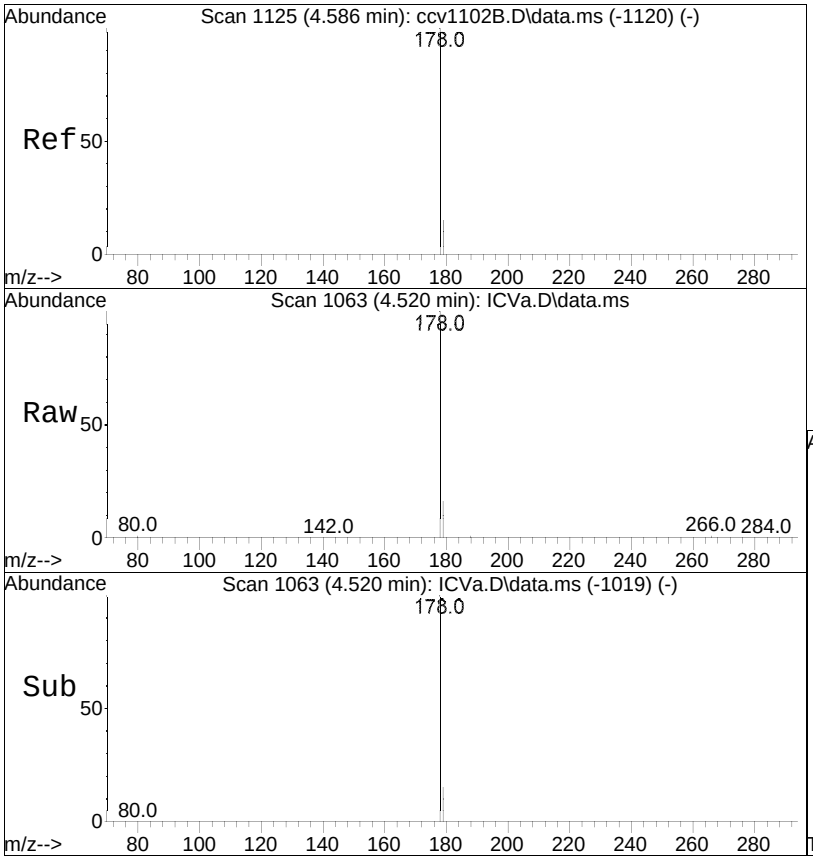


#26
Phenanthrene
Concen: 1059.63 ng/ml
RT: 4.494 min Scan# 1054
Delta R.T. -0.002 min
Lab File: ICVa.D
Acq: 13 Dec 2023 07:30 am

Tgt Ion:178 Resp: 5486

Ion	Ratio	Lower	Upper
178	100		
179	15.4	12.2	18.4

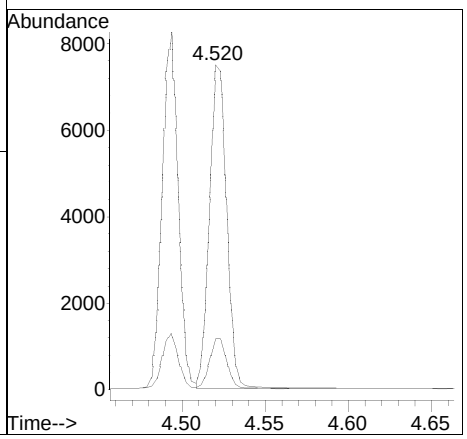


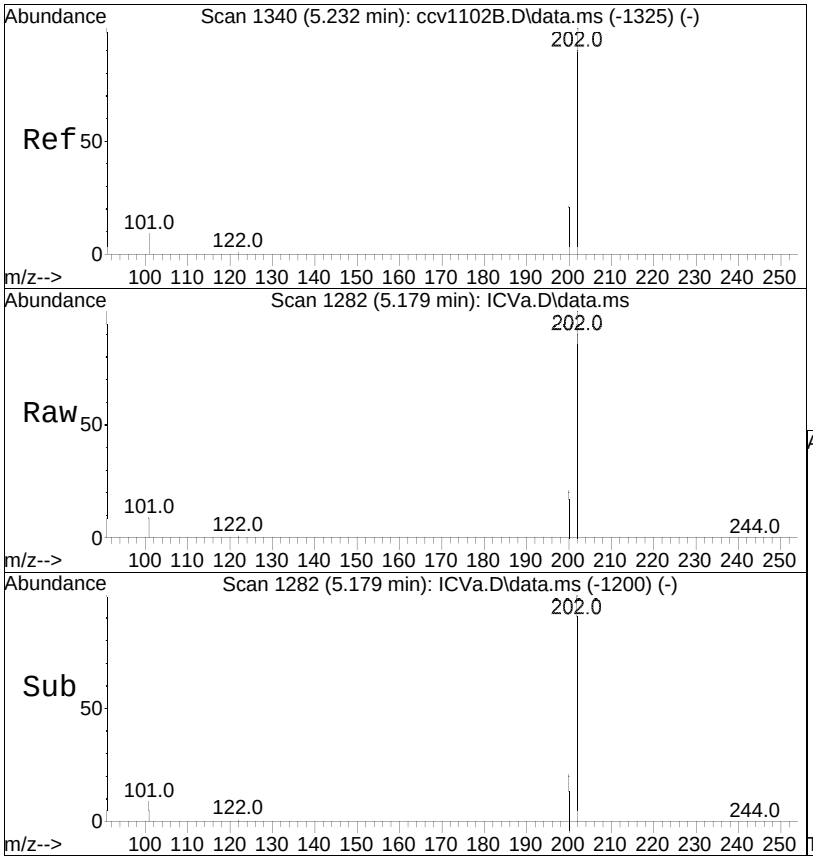


#27
Anthracene
Concen: 1066.05 ng/ml
RT: 4.520 min Scan# 1063
Delta R.T. -0.005 min
Lab File: ICVa.D
Acq: 13 Dec 2023 07:30 am

Tgt Ion:178 Resp: 5333

Ion	Ratio	Lower	Upper
178	100		
179	15.8	12.2	18.2

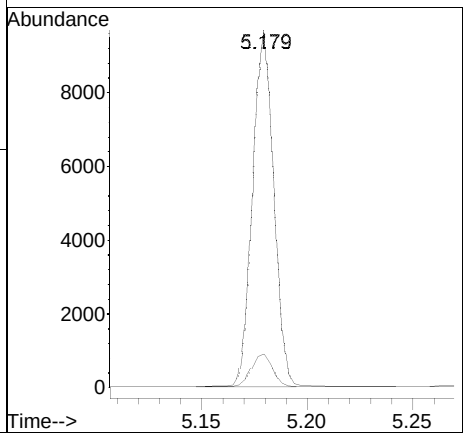


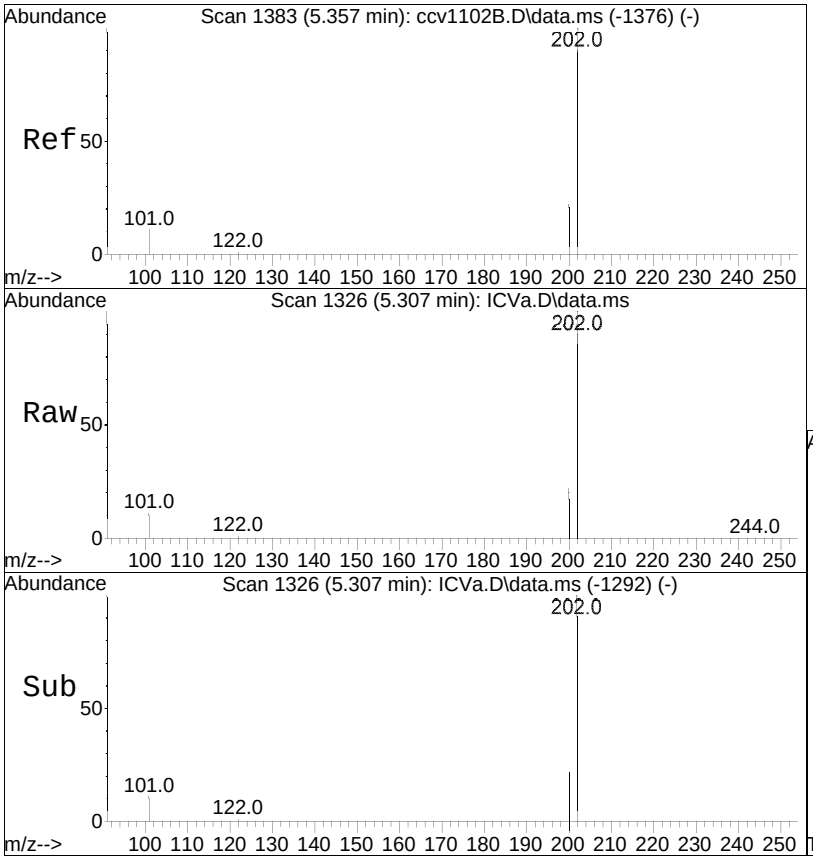


#28
Fluoranthene
Concen: 1168.59 ng/ml
RT: 5.179 min Scan# 1282
Delta R.T. -0.005 min
Lab File: ICVa.D
Acq: 13 Dec 2023 07:30 am

Tgt Ion:202 Resp: 6647

Ion	Ratio	Lower	Upper
202	100		
101	9.1	7.2	10.8

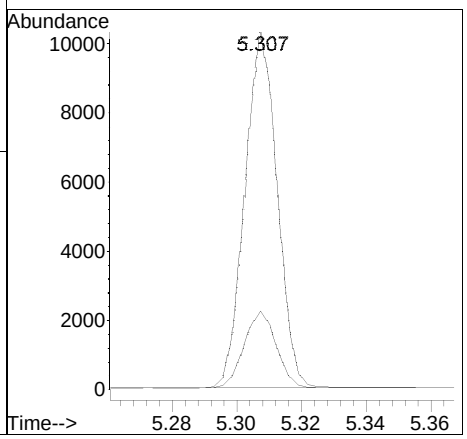


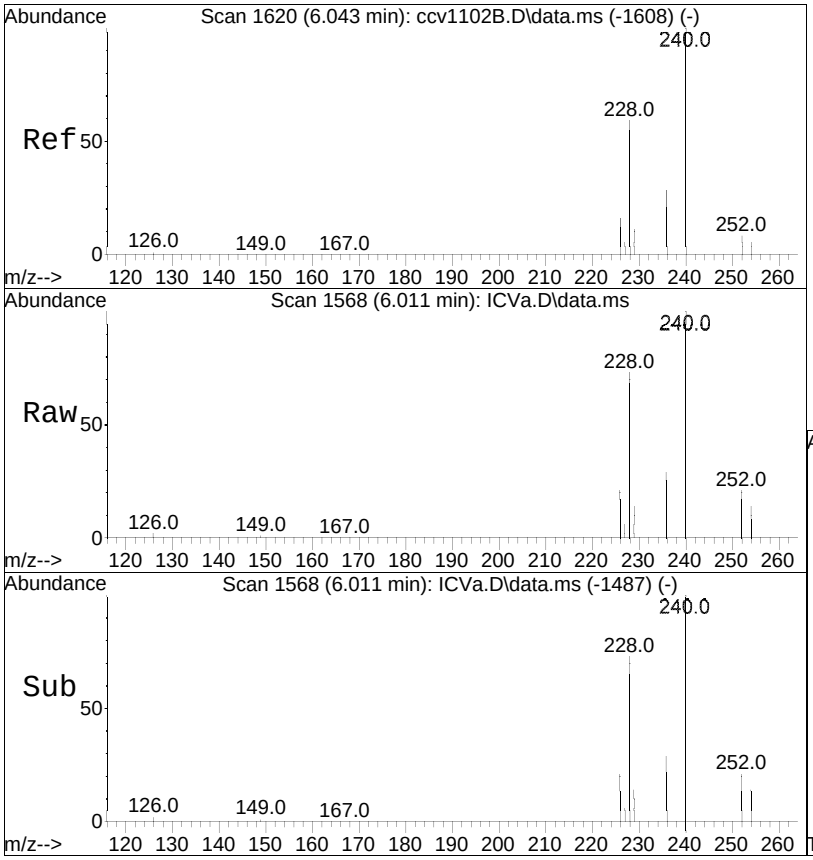


#29
Pyrene
Concen: 1200.33 ng/ml M6
RT: 5.307 min Scan# 1326
Delta R.T. -0.005 min
Lab File: ICVa.D
Acq: 13 Dec 2023 07:30 am

Tgt Ion:202 Resp: 7064

Ion	Ratio	Lower	Upper
202	100		
200	21.7	17.7	26.5

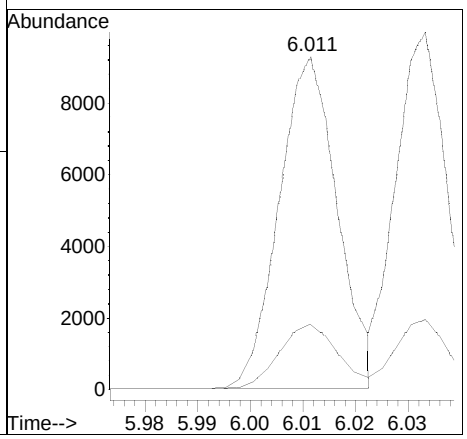


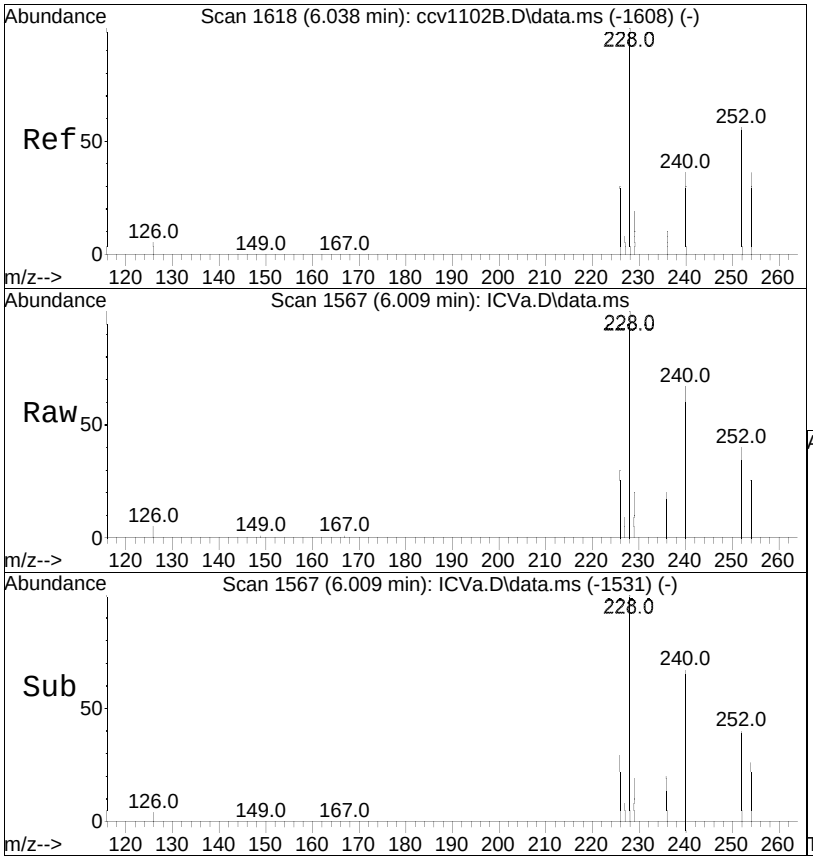


#32
Benzo[a]anthracene
Concen: 1041.85 ng/ml
RT: 6.011 min Scan# 1568
Delta R.T. -0.003 min
Lab File: ICVa.D
Acq: 13 Dec 2023 07:30 am

Tgt Ion:228 Resp: 7149

Ion	Ratio	Lower	Upper
228	100		
229	19.5	15.7	23.5

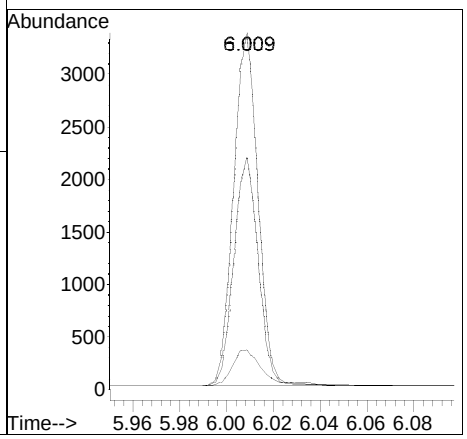


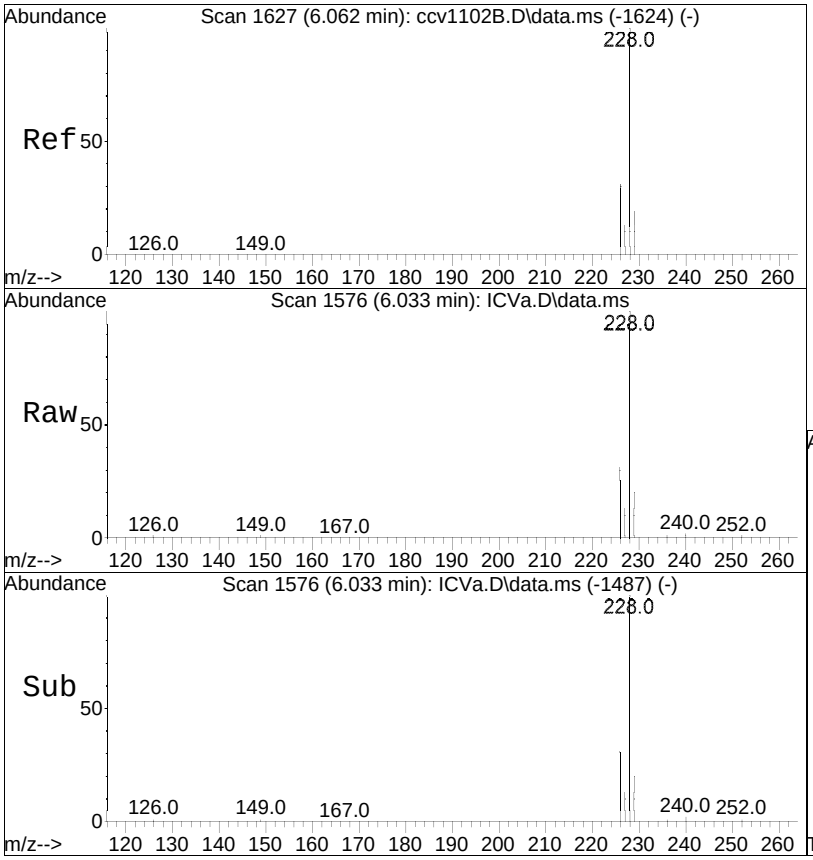


#33
3,3'-Dichlorobenzidine
Concen: 905.76 ng/ml
RT: 6.009 min Scan# 1567
Delta R.T. -0.002 min
Lab File: ICVa.D
Acq: 13 Dec 2023 07:30 am

Tgt Ion:252 Resp: 2423

Ion	Ratio	Lower	Upper
252	100		
126	11.8	9.4	14.0
254	64.7	51.8	77.6

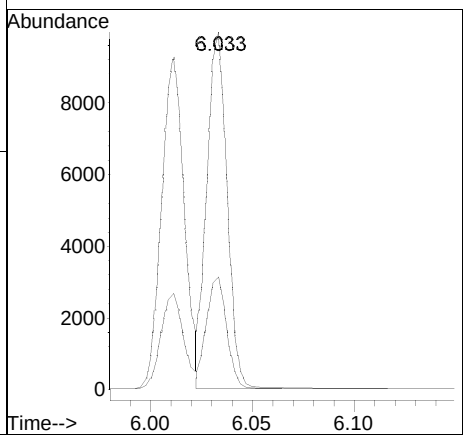


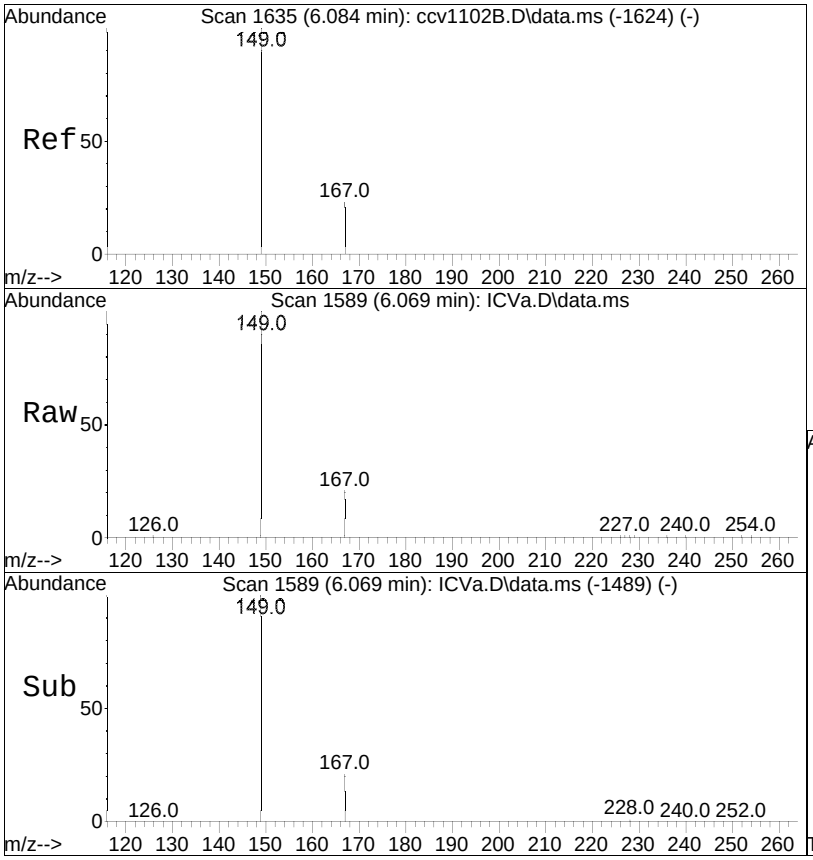


#34
Chrysene
Concen: 1042.32 ng/ml
RT: 6.033 min Scan# 1576
Delta R.T. -0.003 min
Lab File: ICVa.D
Acq: 13 Dec 2023 07:30 am

Tgt Ion:228 Resp: 6835

Ion	Ratio	Lower	Upper
228	100		
226	31.2	24.6	36.8

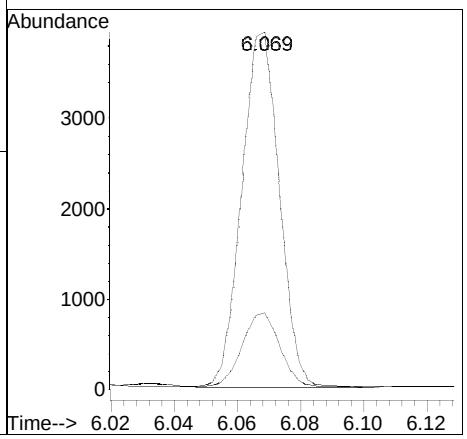


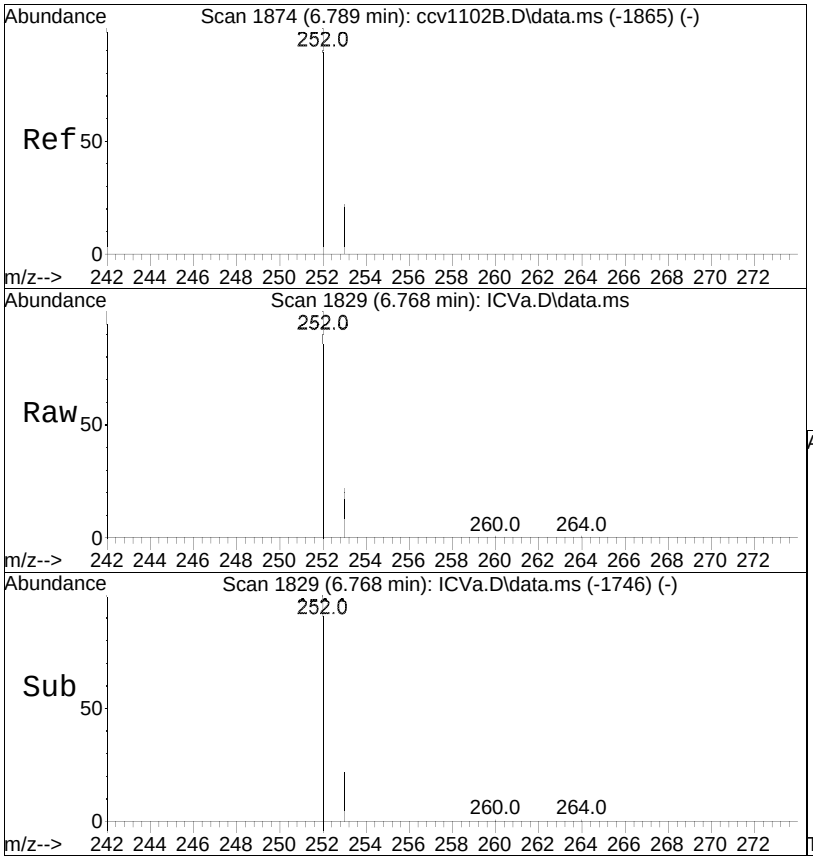


#35
Bis(2-ethylhexyl)phthalate
Concen: 966.34 ng/ml
RT: 6.069 min Scan# 1589
Delta R.T. -0.002 min
Lab File: ICVa.D
Acq: 13 Dec 2023 07:30 am

Tgt Ion:149 Resp: 3228

Ion	Ratio	Lower	Upper
149	100		
167	20.4	16.4	24.6

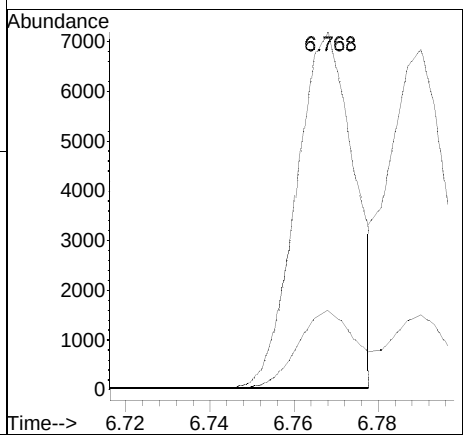


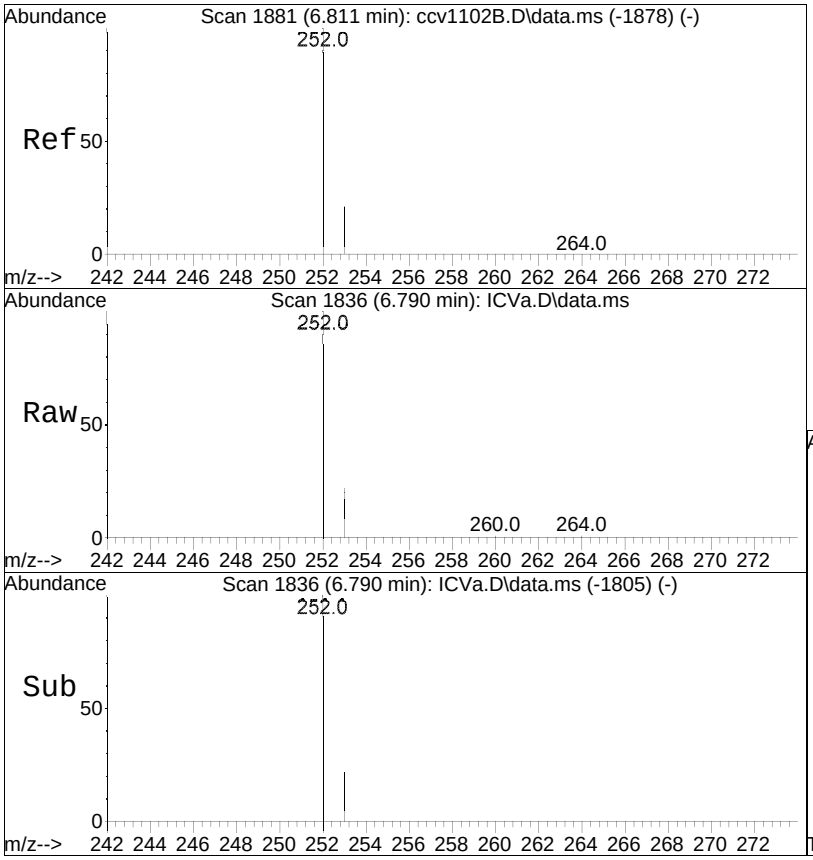


#37
Benzo[b]fluoranthene
Concen: 1079.39 ng/ml
RT: 6.768 min Scan# 1829
Delta R.T. -0.007 min
Lab File: ICVa.D
Acq: 13 Dec 2023 07:30 am

Tgt Ion:252 Resp: 6921

Ion	Ratio	Lower	Upper
252	100		
253	21.4	17.1	25.7

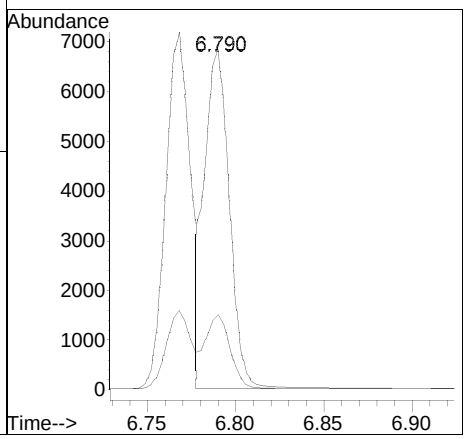


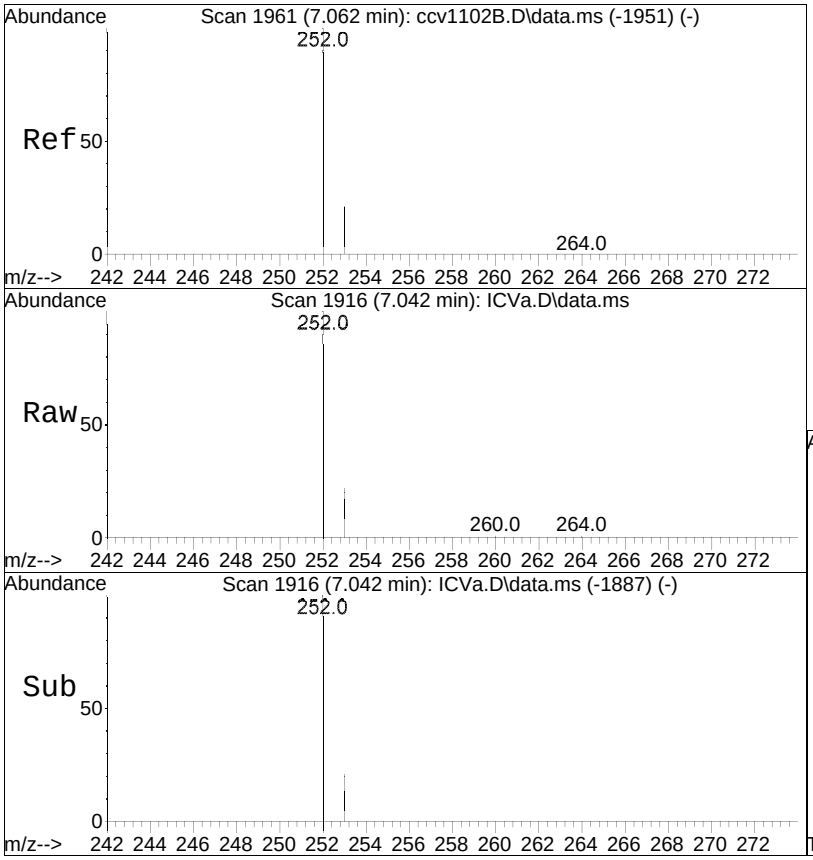


#38
Benzo[k]fluoranthene
Concen: 1099.56 ng/ml
RT: 6.790 min Scan# 1836
Delta R.T. -0.004 min
Lab File: ICVa.D
Acq: 13 Dec 2023 07:30 am

Tgt Ion:252 Resp: 6561

Ion	Ratio	Lower	Upper
252	100		
253	21.8	17.3	25.9

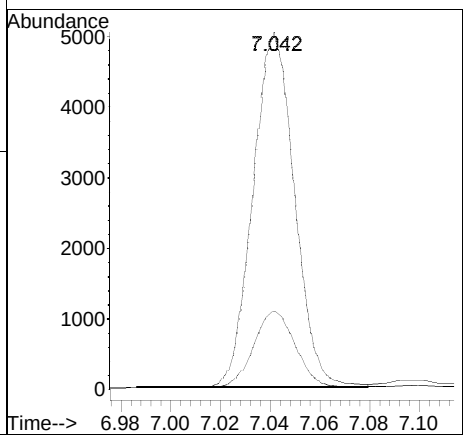


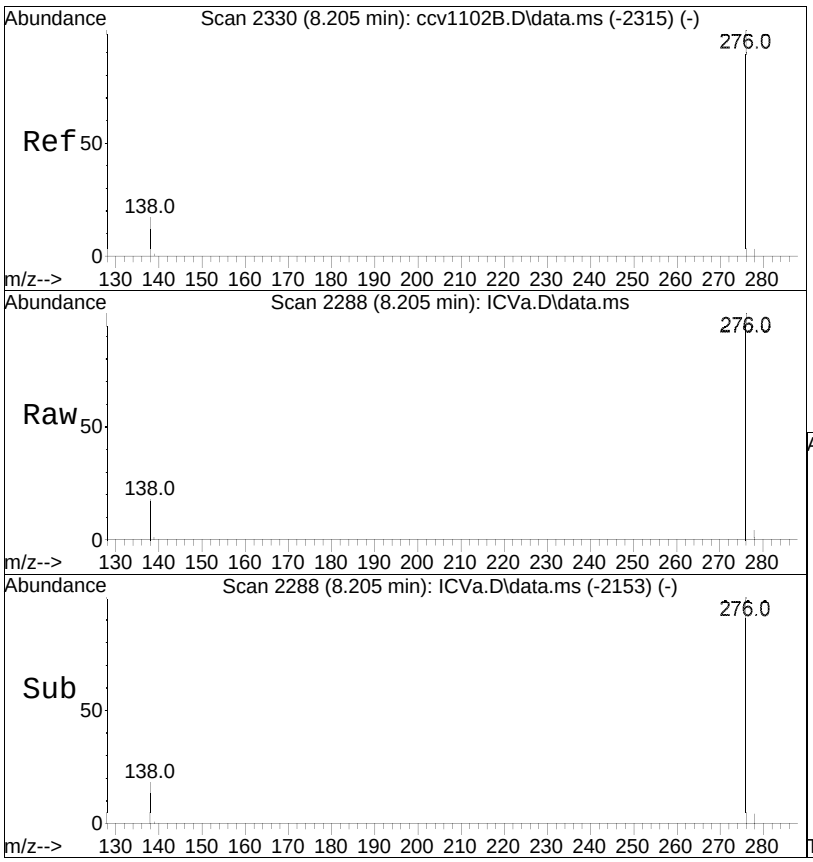


#39
Benzo[a]pyrene
Concen: 1019.97 ng/ml
RT: 7.042 min Scan# 1916
Delta R.T. -0.007 min
Lab File: ICVa.D
Acq: 13 Dec 2023 07:30 am

Tgt Ion:252 Resp: 5759

Ion	Ratio	Lower	Upper
252	100		
253	21.5	17.3	25.9

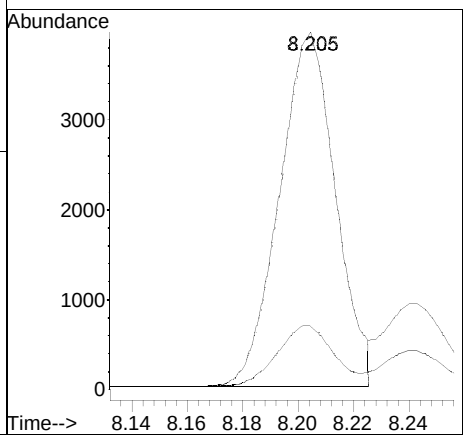


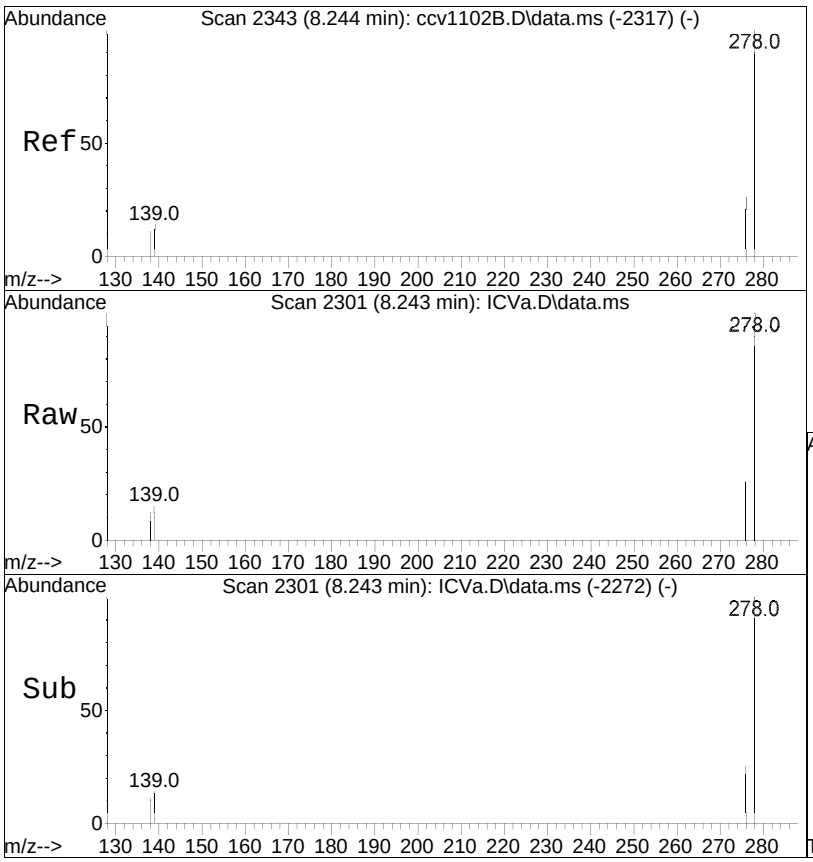


#40
Indeno[1,2,3-cd]pyrene
Concen: 974.35 ng/ml
RT: 8.205 min Scan# 2288
Delta R.T. -0.009 min
Lab File: ICVa.D
Acq: 13 Dec 2023 07:30 am

Tgt Ion:276 Resp: 5501

Ion	Ratio	Lower	Upper
276	100		
138	17.3	13.4	20.2

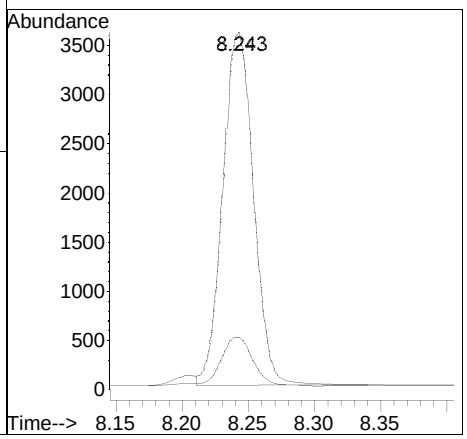


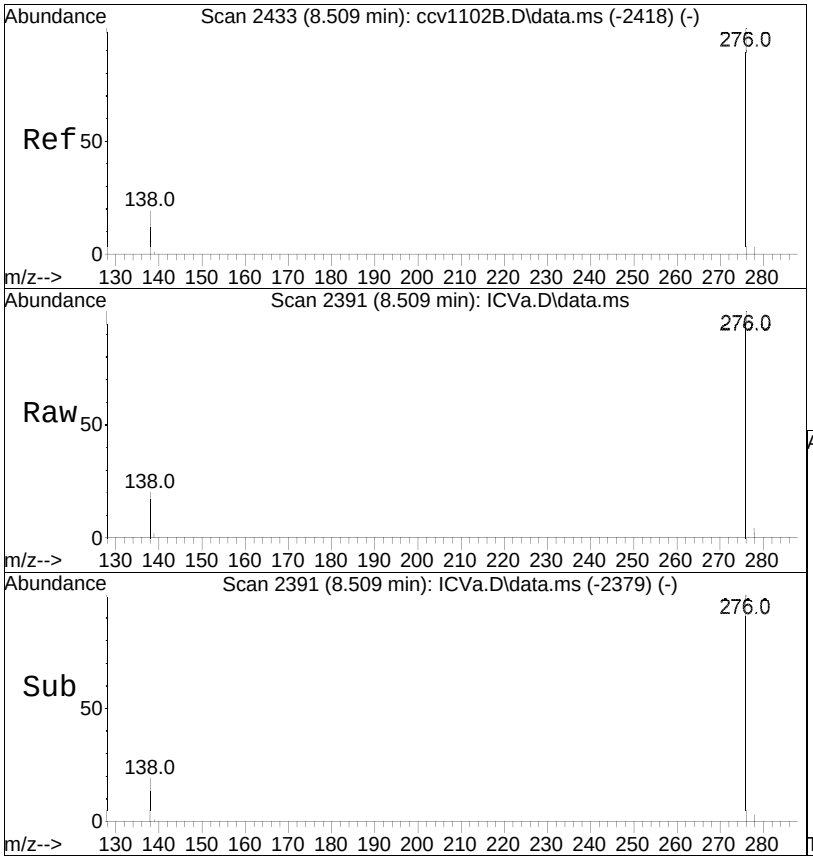


#41
Dibenzo[a,h]anthracene
Concen: 1049.16 ng/ml
RT: 8.243 min Scan# 2301
Delta R.T. -0.013 min
Lab File: ICVa.D
Acq: 13 Dec 2023 07:30 am

Tgt Ion:278 Resp: 5753

Ion	Ratio	Lower	Upper
278	100		
139	15.2	10.9	16.3

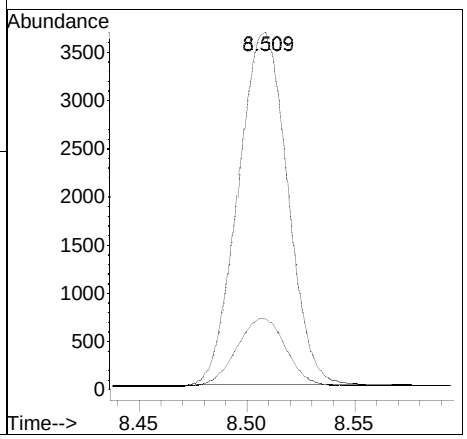




#42
Benzo[g,h,i]perylene
Concen: 977.44 ng/ml
RT: 8.509 min Scan# 2391
Delta R.T. -0.015 min
Lab File: ICVa.D
Acq: 13 Dec 2023 07:30 am

Tgt Ion:276 Resp: 5736

Ion	Ratio	Lower	Upper
276	100		
138	19.3	14.8	22.2

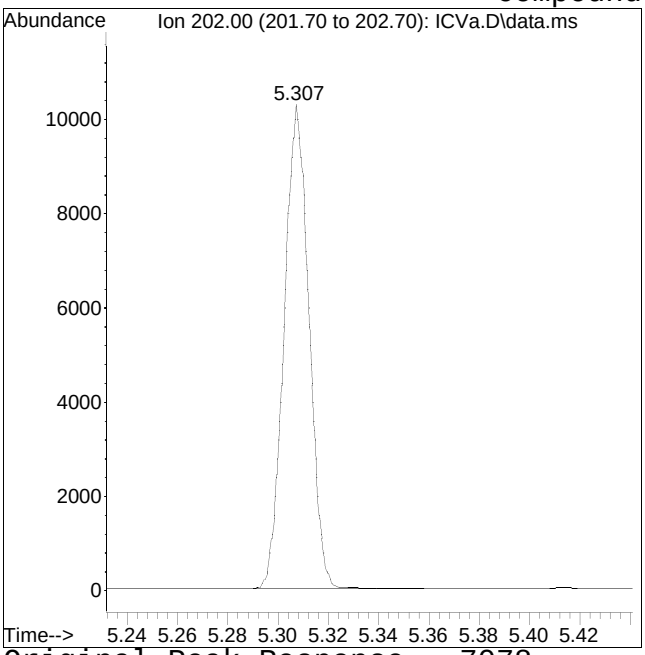


Manual Integration Report

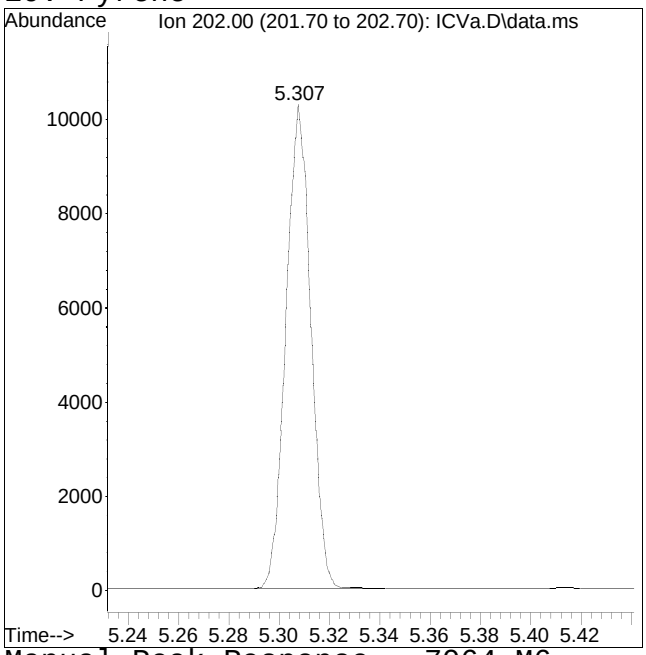
Data Path : I:\8270SIM\SV128\231211LVIQ
Data File : ICVa.D
Date Inj'd : 12/13/2023 7:30 am
Sample : CQICV,32,, 1.0 Lot#10193

Method : SIM-LVI_231211_sv128.M
Operator : SV128:dv
Instrument : SV128
Quant Date : 12/15/2023 2:49 pm

Compound #29: Pyrene



Original Peak Response = 7078



Manual Peak Response = 7064 M6

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

Evaluate Relative Error Report SV128

Method Path : I:\8270SIM\SV128\231211LVIical\
Method File : SIM-LVI_231211_sv128.M
Title : Semivolatiles by GC/MS by modified 8270
Last Update : Fri Dec 15 14:46:27 2023

	COMPOUND	CalFit	Units	TrueMid	MidConc	%RE	TrueLow	LowConc	%RE
15 T	2,6-Dinitrotoluene	Q	ng/ml	1000.0	960.739	-3.9	50.00	60.971	21.9
19 T	2,4-Dinitrotoluene	Q	ng/ml	1000.0	938.996	-6.1	50.00	61.942	23.9
23 T	4,6-Dinitro-o-cresol	L	ng/ml	1000.0	872.974	-12.7	100.00	122.436	22.4
25 T	Pentachlorophenol	Q	ng/ml	1000.0	1032.686	3.3	25.00	30.617	22.5
32 T	Benzo[a]anthracene	L	ng/ml	1000.0	985.139	-1.5	10.00	11.804	18.0
33 T	3,3'-Dichlorobenzidine	L	ng/ml	1000.0	914.437	-8.6	50.00	56.469	12.9
35 T	Bis(2-ethylhexyl)phthalate	Q	ng/ml	1000.0	868.853	-13.1	100.00	120.644	20.6

Calibration Correlation Report

	COMPOUND	CalFit	CoefOfDet	QuadTerm	LinTerm	Constant
15 T	2,6-Dinitrotoluene	Quadratic	0.999696	0.004409	0.129334	-0.000937941
19 T	2,4-Dinitrotoluene	Quadratic	0.999553	0.007782	0.304686	-0.00240833
23 T	4,6-Dinitro-o-cresol	Linear	0.998918	0.000000	0.0835668	-0.00130756
25 T	Pentachlorophenol	Quadratic	0.999367	0.029885	0.104939	-0.00039882
32 T	Benzo[a]anthracene	Linear	0.999858	0.000000	1.434	0.00234217
33 T	3,3'-Dichlorobenzidine	Linear	0.999682	0.000000	0.573715	-0.00252584
35 T	Bis(2-ethylhexyl)phthalate	Quadratic	0.999239	0.021999	0.73731	-0.00969992

Continuing Calibration

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Alpha Geoscience		**Lab Number**	: L2434679	
Project Name	: RANCO MINE		**Project Number**	: 12123	
Instrument ID	: SV128		**Calibration Date**	: 06/24/24 11:21	
Lab File ID	: CCV0624		**Init. Calib. Date(s)**	: 12/11/23	12/13/23
Sample No	: WG1938533-3		**Init. Calib. Times**	: 13:27	07:14
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
1,4-Dichlorobenzene-d4	1	1	.05	0	20	136	0
2-Fluorophenol	1.007	1.015	.05	-0.8	20	130	0
Phenol-d6	1.177	1.28	.05	-8.8	20	140	0
Bis(2-chloroethyl)ether	1.005	1.081	.05	-7.6	20	145	0
n-nitrosodi-n-propylamine	0.702	0.77	.05	-9.7	20	141	0
Hexachloroethane	0.478	0.497	.05	-4	20	138	0
Nitrobenzene-d5	0.951	1.197	.05	-25.9*	20	161	0
Naphthalene-d8	1	1	.05	0	20	136	0
Naphthalene	1.026	0.99	.05	3.5	20	128	0
Hexachlorobutadiene	0.235	0.215	.05	8.5	20	125	0
2-Methylnaphthalene	0.655	0.659	.05	-0.6	20	130	0
1-Methylnaphthalene	0.617	0.596	.05	3.4	20	125	0
2-Fluorobiphenyl	0.848	0.825	.05	2.7	20	124	0
2-Chloronaphthalene	0.713	0.69	.05	3.2	20	125	0
2,6-Dinitrotoluene	1000	1136.77	.05	-13.7	20	162	0
Acenaphthylene	1.057	1.004	.05	5	20	120	0
Acenaphthene-d10	1	1	.05	0	20	135	0
Acenaphthene	1.352	1.277	.05	5.5	20	124	0
2,4-Dinitrotoluene	1000	1102.368	.05	-10.2	20	159	0
Fluorene	1.365	1.355	.05	0.7	20	125	0
2,4,6-Tribromophenol	0.2	0.199	.05	0.5	20	126	0
Phenanthrene-d10	1	1	.05	0	20	133	0
4,6-Dinitro-o-cresol	1000	1200.475	.05	-20	20	186	0
Hexachlorobenzene	0.266	0.253	.05	4.9	20	127	0
Pentachlorophenol	1000	1189.799	.05	-19	20	155	0
Phenanthrene	1.082	1.008	.05	6.8	20	123	0
Anthracene	1.045	0.965	.05	7.7	20	120	0
Fluoranthene	1.188	1.151	.05	3.1	20	122	0
Pyrene	1.23	1.227	.05	0.2	20	121	0
4-Terphenyl-d14	0.833	0.777	.05	6.7	20	114	0
Chrysene-d12	1	1	.05	0	20	129	0
Benzo[a]anthracene	1000	889.428	.05	11.1	20	116	0
3,3'-Dichlorobenzidine	1000	829.187	.05	17.1	20	117	0
Chrysene	1.379	1.296	.05	6	20	117	0
Bis(2-ethylhexyl)phthalate	1000	922.991	.05	7.7	20	137	0
Perylene-d12	1	1	.05	0	20	119	0
Benzo[b]fluoranthene	1.239	1.173	.05	5.3	20	111	0
Benzo[k]fluoranthene	1.153	1.129	.05	2.1	20	113	0
Benzo[a]pyrene	1.091	1.051	.05	3.7	20	110	0
Indeno[1,2,3-cd]pyrene	1.091	1.08	.05	1	20	113	0
Dibenzo[a,h]anthracene	1.059	1.06	.05	-0.1	20	108	0
Benzo[g,h,i]perylene	1.134	1.083	.05	4.5	20	105	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Alpha Geoscience		**Lab Number**	: L2434679	
Project Name	: RANCO MINE		**Project Number**	: 12123	
Instrument ID	: SV128		**Calibration Date**	: 06/25/24 10:01	
Lab File ID	: CCV0625		**Init. Calib. Date(s)**	: 12/11/23	12/13/23
Sample No	: WG1939038-3		**Init. Calib. Times**	: 13:27	07:14
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
1,4-Dichlorobenzene-d4	1	1	.05	0	20	130	0
2-Fluorophenol	1.007	1.036	.05	-2.9	20	126	0
Phenol-d6	1.177	1.29	.05	-9.6	20	134	0
Bis(2-chloroethyl)ether	1.005	1.111	.05	-10.5	20	142	0
n-nitrosodi-n-propylamine	0.702	0.81	.05	-15.4	20	141	0
Hexachloroethane	0.478	0.486	.05	-1.7	20	128	0
Nitrobenzene-d5	0.951	1.242	.05	-30.6*	20	159	0
Naphthalene-d8	1	1	.05	0	20	133	0
Naphthalene	1.026	0.994	.05	3.1	20	126	0
Hexachlorobutadiene	0.235	0.216	.05	8.1	20	123	0
2-Methylnaphthalene	0.655	0.674	.05	-2.9	20	130	0
1-Methylnaphthalene	0.617	0.634	.05	-2.8	20	130	0
2-Fluorobiphenyl	0.848	0.871	.05	-2.7	20	128	0
2-Chloronaphthalene	0.713	0.708	.05	0.7	20	125	0
2,6-Dinitrotoluene	1000	1420.312	.05	-42*	20	200	0
Acenaphthylene	1.057	1.107	.05	-4.7	20	130	0
Acenaphthene-d10	1	1	.05	0	20	141	0
Acenaphthene	1.352	1.262	.05	6.7	20	128	0
2,4-Dinitrotoluene	1000	1200.999	.05	-20.1*	20	182	0
Fluorene	1.365	1.359	.05	0.4	20	132	0
2,4,6-Tribromophenol	0.2	0.195	.05	2.5	20	130	0
Phenanthrene-d10	1	1	.05	0	20	148	0
4,6-Dinitro-o-cresol	1000	1205.831	.05	-20.6*	20	209	0
Hexachlorobenzene	0.266	0.223	.05	16.2	20	125	0
Pentachlorophenol	1000	1181.618	.05	-18.2	20	172	0
Phenanthrene	1.082	0.996	.05	7.9	20	136	0
Anthracene	1.045	0.957	.05	8.4	20	132	0
Fluoranthene	1.188	1.21	.05	-1.9	20	143	0
Pyrene	1.23	1.267	.05	-3	20	140	0
4-Terphenyl-d14	0.833	0.812	.05	2.5	20	133	0
Chrysene-d12	1	1	.05	0	20	155	0
Benzo[a]anthracene	1000	880.982	.05	11.9	20	139	0
3,3'-Dichlorobenzidine	1000	799.709	.05	20	20	135	0
Chrysene	1.379	1.283	.05	7	20	140	0
Bis(2-ethylhexyl)phthalate	1000	947.426	.05	5.3	20	170	0
Perylene-d12	1	1	.05	0	20	145	0
Benzo[b]fluoranthene	1.239	1.161	.05	6.3	20	134	0
Benzo[k]fluoranthene	1.153	1.121	.05	2.8	20	137	0
Benzo[a]pyrene	1.091	1.045	.05	4.2	20	133	0
Indeno[1,2,3-cd]pyrene	1.091	1.057	.05	3.1	20	135	0
Dibenzo[a,h]anthracene	1.059	1.039	.05	1.9	20	129	0
Benzo[g,h,i]perylene	1.134	1.054	.05	7.1	20	125	0

*** Value outside of QC limits.**

Evaluate Continuing Calibration Report

Data Path : I:\8270SIM\SV128\240624\
Data File : ccv0624.D
Acq On : 24 Jun 2024 11:21 am
Operator : SV128:jjw
Sample : wg1938533-3,32,,ICV 10475 (0617)
Misc : wg1938533,,ical20676
ALS Vial : 49 Sample Multiplier: 1

Quant Time: Jun 24 11:38:45 2024
Quant Method : I:\8270SIM\SV128\240624\SIM-LVI_231211_sv128.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 24 11:39:30 2024
Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	i	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	136	0.00
2	s	2-Fluorophenol	1.007	1.015	-0.8	130	0.00
3	s	Phenol-d6	1.177	1.280	-8.8	140	0.00
4	T	Bis(2-chloroethyl)ether	1.005	1.081	-7.6	145	0.00
5	T	n-nitrosodi-n-propylamine	0.702	0.770	-9.7	141	0.00
6	t	Hexachloroethane	0.478	0.497	-4.0	138	0.00
7	s	Nitrobenzene-d5	0.951	1.197	-25.9#	161	0.00
8	i	Naphthalene-d8	1.000	1.000	0.0	136	0.00
9	t	Naphthalene	1.026	0.990	3.5	128	0.00
10	t	Hexachlorobutadiene	0.235	0.215	8.5	125	0.00
11	t	2-Methylnaphthalene	0.655	0.659	-0.6	130	0.00
12	t	1-Methylnaphthalene	0.617	0.596	3.4	125	0.00
13	s	2-Fluorobiphenyl	0.848	0.825	2.7	124	0.00
14	t	2-Chloronaphthalene	0.713	0.690	3.2	125	0.00
15	t	2,6-Dinitrotoluene	*1000.000	1136.770	-13.7	162	0.00
16	t	Acenaphthylene	1.057	1.004	5.0	120	0.00
17	i	Acenaphthene-d10	1.000	1.000	0.0	135	0.00
18	t	Acenaphthene	1.352	1.277	5.5	124	0.00
19	t	2,4-Dinitrotoluene	*1000.000	1102.368	-10.2	159	0.00
20	t	Fluorene	1.365	1.355	0.7	125	0.00
21	s	2,4,6-Tribromophenol	0.200	0.199	0.5	126	0.00
22	i	Phenanthrene-d10	1.000	1.000	0.0	133	0.00
23	T	4,6-Dinitro-o-cresol	*1000.000	1200.475	-20.0#	186	0.00
24	t	Hexachlorobenzene	0.266	0.253	4.9	127	0.00
25	t	Pentachlorophenol	*1000.000	1189.799	-19.0	155	0.00
26	t	Phenanthrene	1.082	1.008	6.8	123	0.00
27	t	Anthracene	1.045	0.965	7.7	120	0.00
28	t	Fluoranthene	1.188	1.151	3.1	122	0.00
29	t	Pyrene	1.230	1.227	0.2	121	0.00
30	s	4-Terphenyl-d14	0.833	0.777	6.7	114	0.00
31	i	Chrysene-d12	1.000	1.000	0.0	129	0.00
32	t	Benzo[a]anthracene	*1000.000	889.428	11.1	116	0.00
33	t	3,3'-Dichlorobenzidine	*1000.000	829.187	17.1	117	0.00
34	t	Chrysene	1.379	1.296	6.0	117	0.00
35	T	Bis(2-ethylhexyl)phthalate	*1000.000	922.991	7.7	137	0.00

Evaluate Continuing Calibration Report

Data Path : I:\8270SIM\SV128\240624\
Data File : ccv0624.D
Acq On : 24 Jun 2024 11:21 am
Operator : SV128:jjw
Sample : wg1938533-3,32,,ICV 10475 (0617)
Misc : wg1938533,,ical20676
ALS Vial : 49 Sample Multiplier: 1

Quant Time: Jun 24 11:38:45 2024
Quant Method : I:\8270SIM\SV128\240624\SIM-LVI_231211_sv128.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 24 11:39:30 2024
Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
36	i	Perylene-d12	1.000	1.000	0.0	119	0.00
37	t	Benzo[b]fluoranthene	1.239	1.173	5.3	111	0.00
38	t	Benzo[k]fluoranthene	1.153	1.129	2.1	113	0.00
39	t	Benzo[a]pyrene	1.091	1.051	3.7	110	0.00
40	t	Indeno[1,2,3-cd]pyrene	1.091	1.080	1.0	113	0.00
41	t	Dibenzo[a,h]anthracene	1.059	1.060	-0.1	108	0.00
42	t	Benzo[g,h,i]perylene	1.134	1.083	4.5	105	0.00

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV128\240624\
Data File : ccv0624.D
Acq On : 24 Jun 2024 11:21 am
Operator : SV128:jjw
Sample : wg1938533-3,32,,ICV 10475 (0617)
Misc : wg1938533,,ical20676
ALS Vial : 49 Sample Multiplier: 1

Quant Time: Jun 24 11:38:45 2024
Quant Method : I:\8270SIM\SV128\240624\SIM-LVI_231211_sv128.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 24 11:39:30 2024
Response via : Initial Calibration

Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.306	152	4069	4000.000	ng/ml	0.00
8) Naphthalene-d8	2.978	136	14375	4000.000	ng/ml	0.00
17) Acenaphthene-d10	3.962	164	8180	4000.000	ng/ml	0.00
22) Phenanthrene-d10	4.811	188	17962	4000.000	ng/ml	0.00
31) Chrysene-d12	6.392	240	16460	4000.000	ng/ml	0.00
36) Perylene-d12	7.715	264	18271	4000.000	ng/ml	0.00
System Monitoring Compounds						
2) 2-Fluorophenol	1.695	112	1033	1008.157	ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 20.16%			
3) Phenol-d6	2.109	99	1302	1087.282	ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 21.75%			
7) Nitrobenzene-d5	2.590	82	1218	1258.606	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 50.34%			
13) 2-Fluorobiphenyl	3.577	172	2966	972.931	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 38.92%			
21) 2,4,6-Tribromophenol	4.410	330	407	995.676	ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 19.91%			
30) 4-Terphenyl-d14	5.733	244	3488	932.088	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 37.28%			
Target Compounds						Qvalue
4) Bis(2-chloroethyl)ether	2.165	93	1100	1075.549	ng/ml	93
5) n-nitrosodi-n-propylamine	2.507	70	783M6	1096.700	ng/ml	
6) Hexachloroethane	2.568	117	506	1041.253	ng/ml	93
9) Naphthalene	2.987	128	3559	965.452	ng/ml#	100
10) Hexachlorobutadiene	3.063	225	774	916.596	ng/ml	99
11) 2-Methylnaphthalene	3.370	142	2367	1005.133	ng/ml	99
12) 1-Methylnaphthalene	3.426	142	2143	966.327	ng/ml	99
14) 2-Chloronaphthalene	3.644	162	2481	967.746	ng/ml	98
15) 2,6-Dinitrotoluene	3.836	165	520	1136.770	ng/ml#	81
16) Acenaphthylene	3.879	152	3607	949.776	ng/ml	99
18) Acenaphthene	3.980	153	2611	944.243	ng/ml	92
19) 2,4-Dinitrotoluene	4.068	165	672	1102.368	ng/ml	88
20) Fluorene	4.273	166	2770	992.571	ng/ml	97
23) 4,6-Dinitro-o-cresol	4.301	198	427	1200.475	ng/ml#	59
24) Hexachlorobenzene	4.595	284	1135	949.617	ng/ml#	86
25) Pentachlorophenol	4.705	266	601	1189.799	ng/ml	100
26) Phenanthrene	4.823	178	4525	931.621	ng/ml	99
27) Anthracene	4.853	178	4335	923.669	ng/ml	100

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV128\240624\
Data File : ccv0624.D
Acq On : 24 Jun 2024 11:21 am
Operator : SV128:jjw
Sample : wg1938533-3,32,,ICV 10475 (0617)
Misc : wg1938533,,ical20676
ALS Vial : 49 Sample Multiplier: 1

Quant Time: Jun 24 11:38:45 2024
Quant Method : I:\8270SIM\SV128\240624\SIM-LVI_231211_sv128.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 24 11:39:30 2024
Response via : Initial Calibration

Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
28) Fluoranthene	5.509	202	5170	968.837	ng/ml	98
29) Pyrene	5.640	202	5512	998.348	ng/ml	97
32) Benzo[a]anthracene	6.386	228	5287	889.428	ng/ml	99
33) 3,3'-Dichlorobenzidine	6.370	252	1916	829.187	ng/ml	99
34) Chrysene	6.411	228	5333	939.801	ng/ml	99
35) Bis(2-ethylhexyl)phtha...	6.414	149	2660	922.991	ng/ml	98
37) Benzo[b]fluoranthene	7.306	252	5360	947.302	ng/ml	100
38) Benzo[k]fluoranthene	7.331	252	5155	979.021	ng/ml	100
39) Benzo[a]pyrene	7.645	252	4799	963.168	ng/ml	99
40) Indeno[1,2,3-cd]pyrene	9.040	276	4932	989.937	ng/ml	97
41) Dibenzo[a,h]anthracene	9.082	278	4843M6	1000.859	ng/ml	
42) Benzo[g,h,i]perylene	9.407	276	4946M1	955.100	ng/ml	

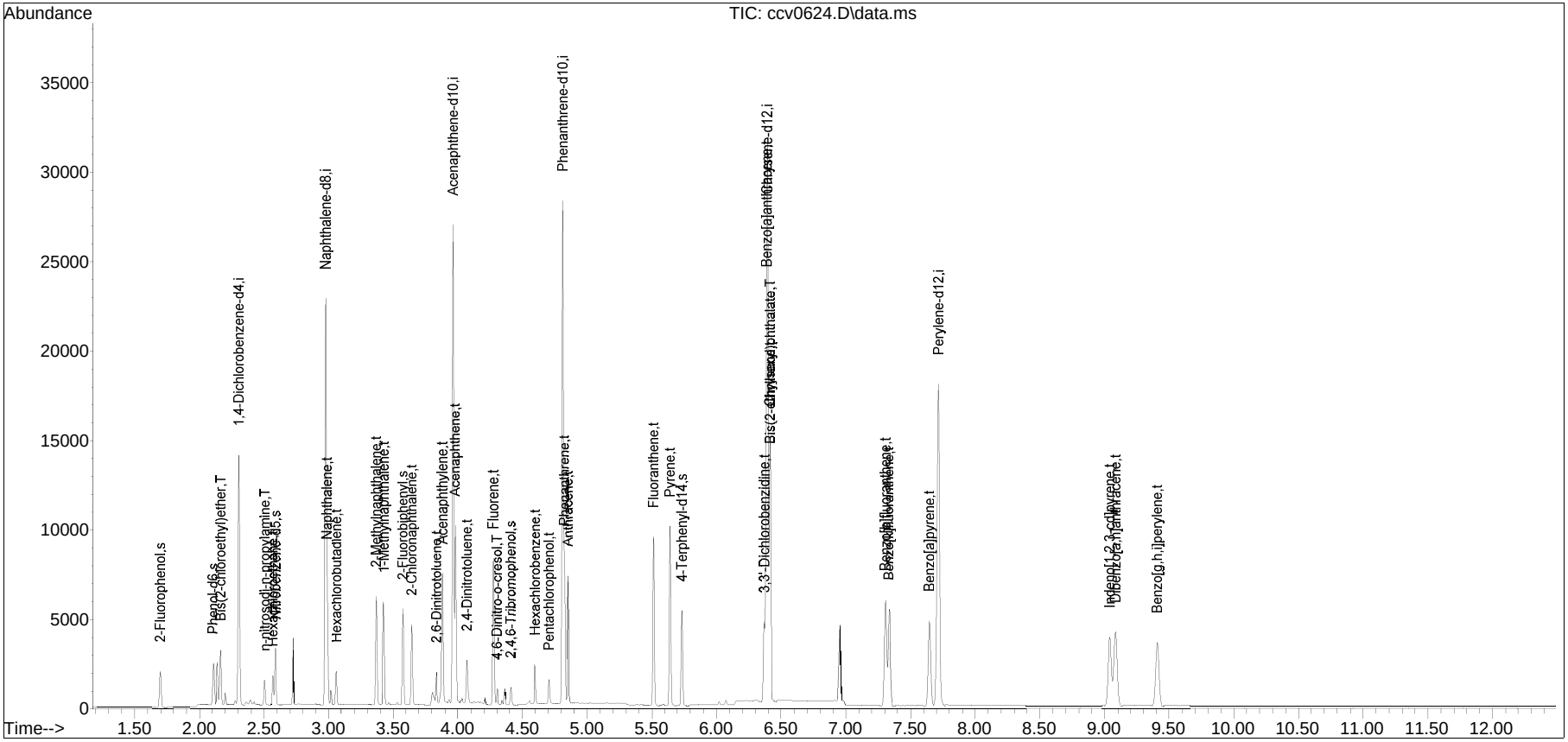
(#) = qualifier out of range (m) = manual integration (+) = signals summed

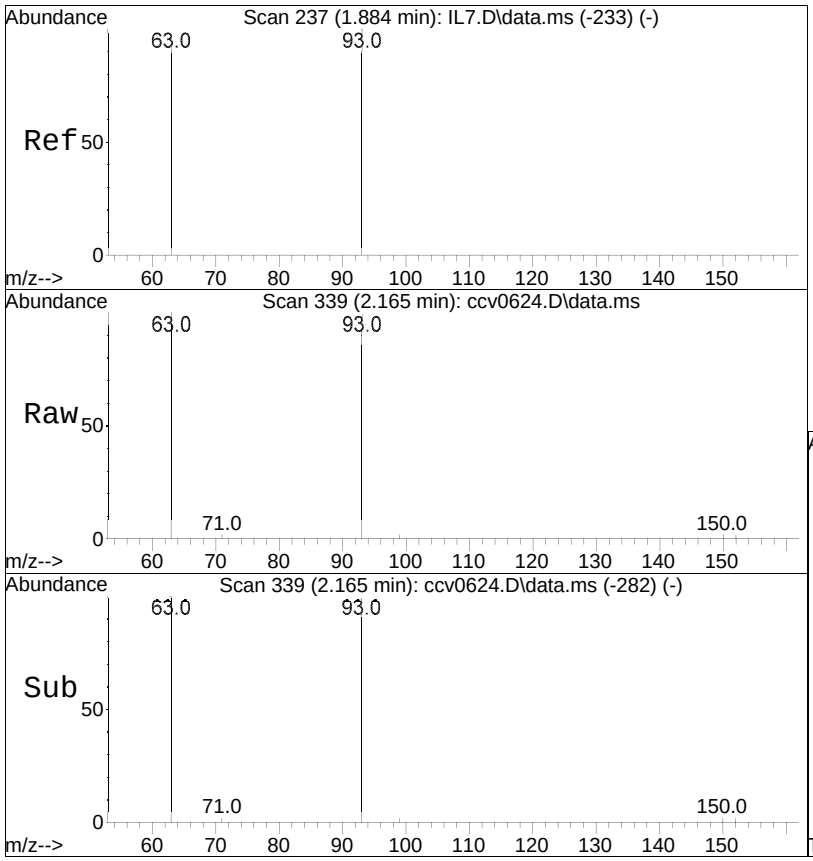
Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV128\240624\
Data File : ccv0624.D
Acq On : 24 Jun 2024 11:21 am
Operator : SV128:jjw
Sample : wg1938533-3,32,,ICV 10475 (0617)
Misc : wg1938533,,ical20676
ALS Vial : 49 Sample Multiplier: 1

Quant Time: Jun 24 11:38:45 2024
Quant Method : I:\8270SIM\SV128\240624\SIM-LVI_231211_sv128.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 24 11:39:30 2024
Response via : Initial Calibration

Sub List : Default - All compounds listed

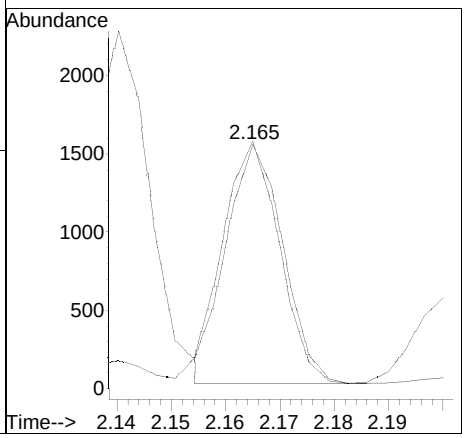


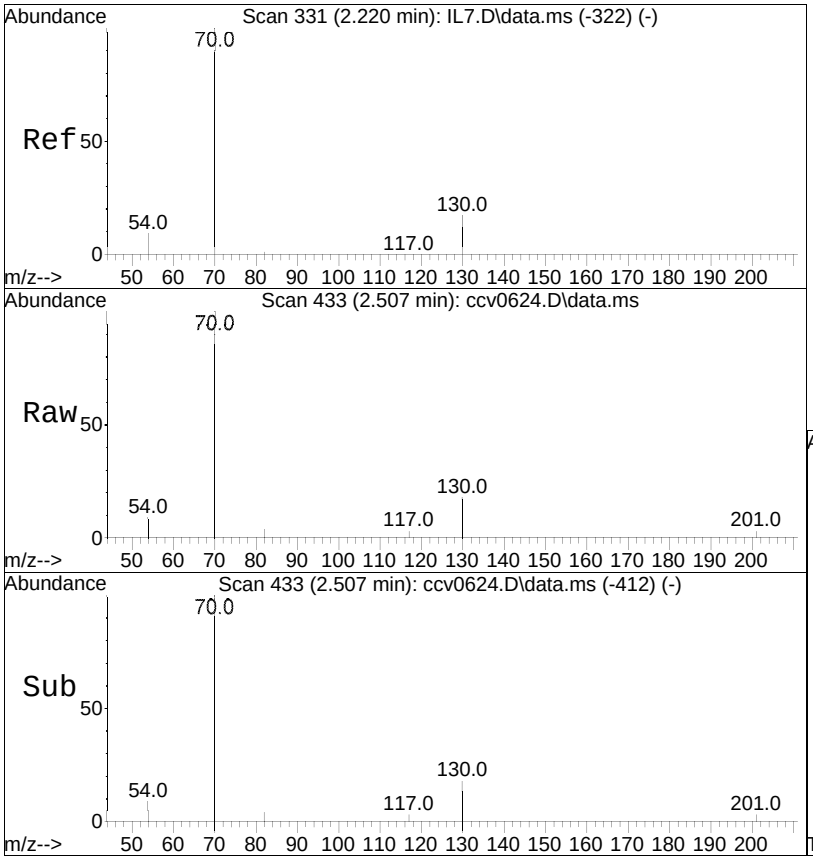


#4
Bis(2-chloroethyl)ether
Concen: 1075.55 ng/ml
RT: 2.165 min Scan# 339
Delta R.T. 0.000 min
Lab File: ccv0624.D
Acq: 24 Jun 2024 11:21 am

Tgt Ion: 93 Resp: 1100

Ion	Ratio	Lower	Upper
93	100		
63	103.0	77.3	115.9

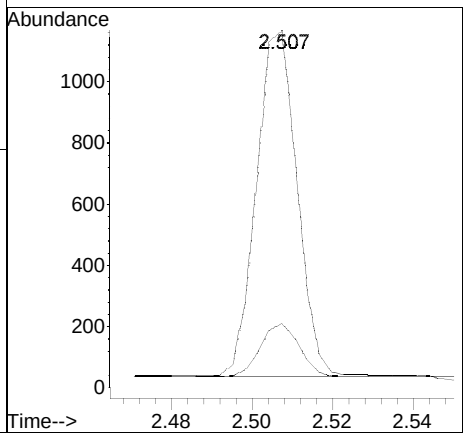


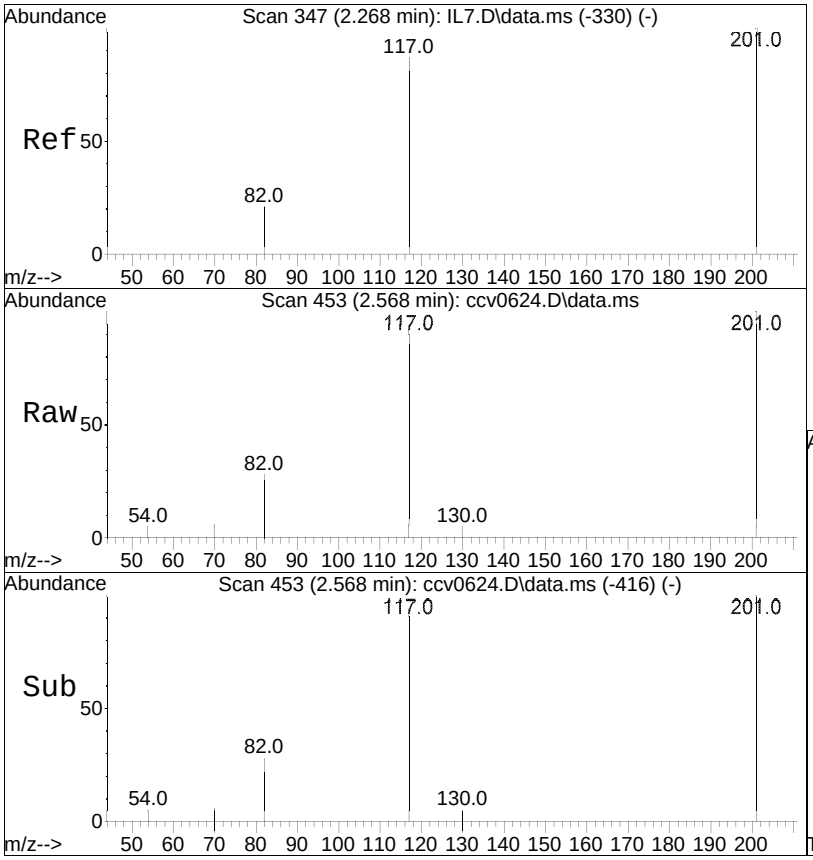


#5
n-nitrosodi-n-propylamine
Concen: 1096.70 ng/ml M6
RT: 2.507 min Scan# 433
Delta R.T. 0.000 min
Lab File: ccv0624.D
Acq: 24 Jun 2024 11:21 am

Tgt Ion: 70 Resp: 783

Ion	Ratio	Lower	Upper
70	100		
130	20.9	13.6	20.4#

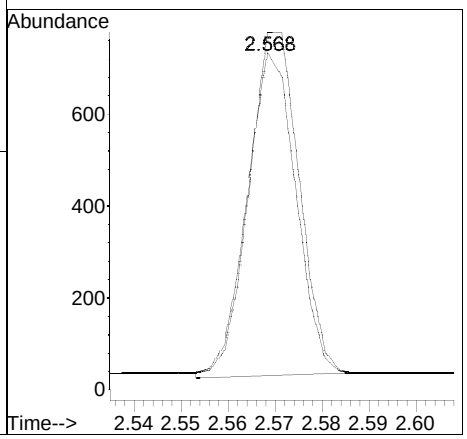


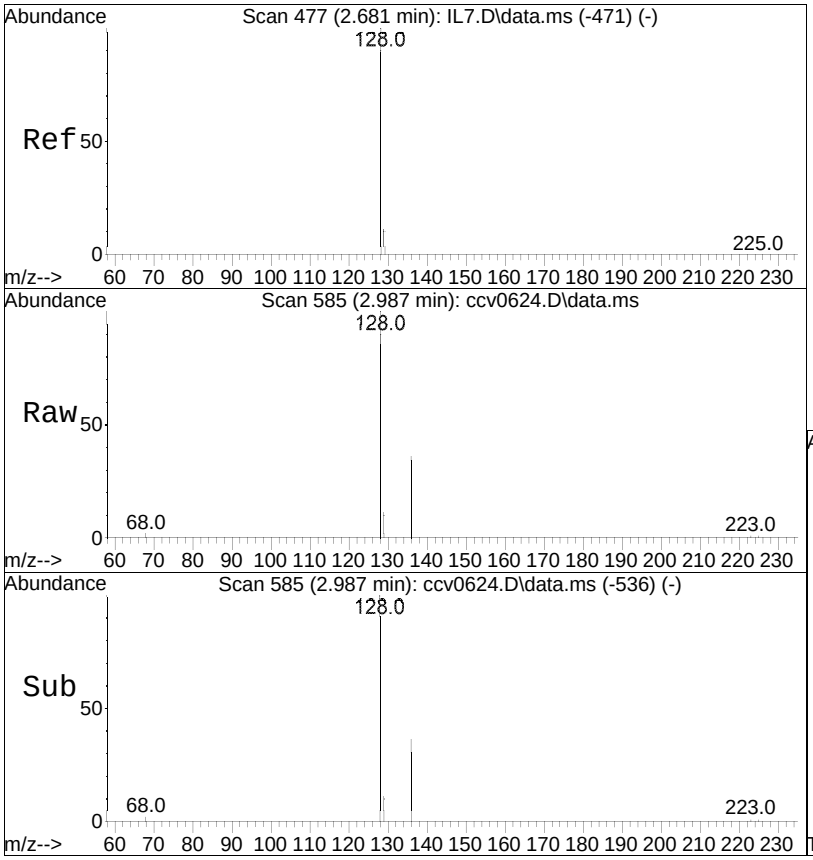


#6
Hexachloroethane
Concen: 1041.25 ng/ml
RT: 2.568 min Scan# 453
Delta R.T. 0.000 min
Lab File: ccv0624.D
Acq: 24 Jun 2024 11:21 am

Tgt Ion:117 Resp: 506

Ion	Ratio	Lower	Upper
117	100		
201	107.1	91.8	137.6

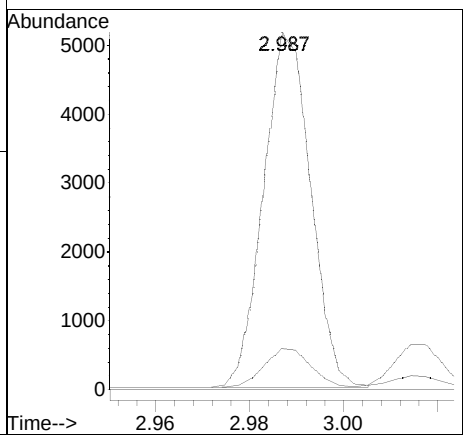


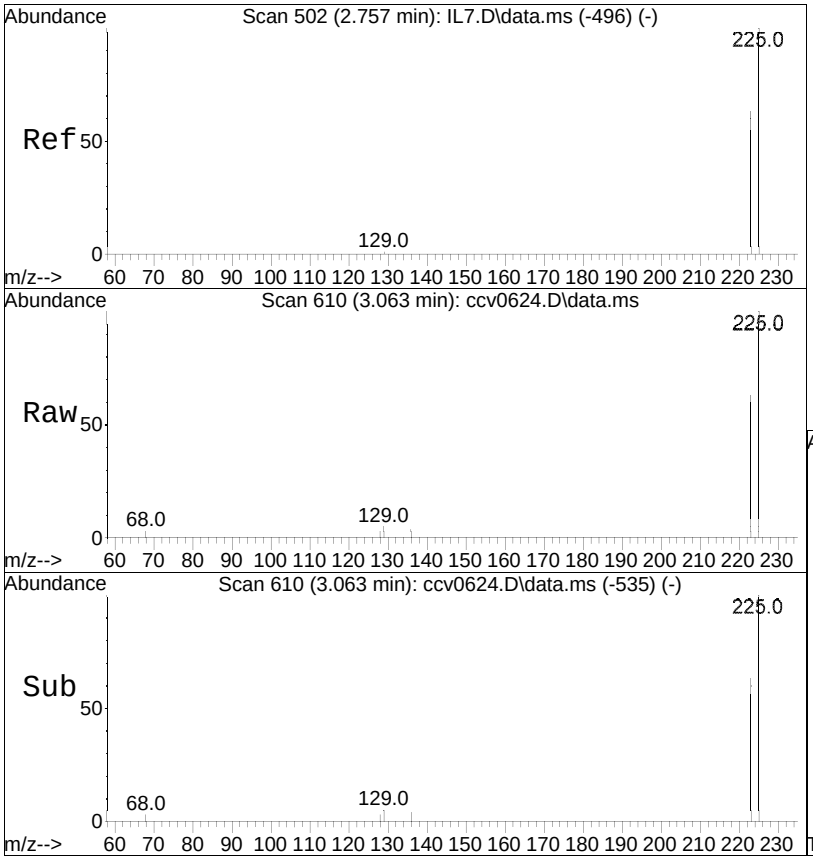


#9
Naphthalene
Concen: 965.45 ng/ml
RT: 2.987 min Scan# 585
Delta R.T. 0.000 min
Lab File: ccv0624.D
Acq: 24 Jun 2024 11:21 am

Tgt Ion:128 Resp: 3559

Ion	Ratio	Lower	Upper
128	100		
129	10.9	8.8	13.2
127	0.0	0.0	0.0

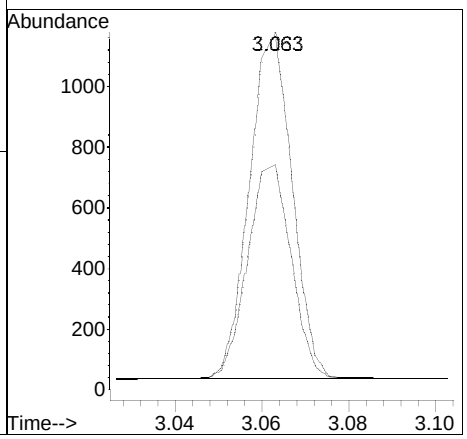


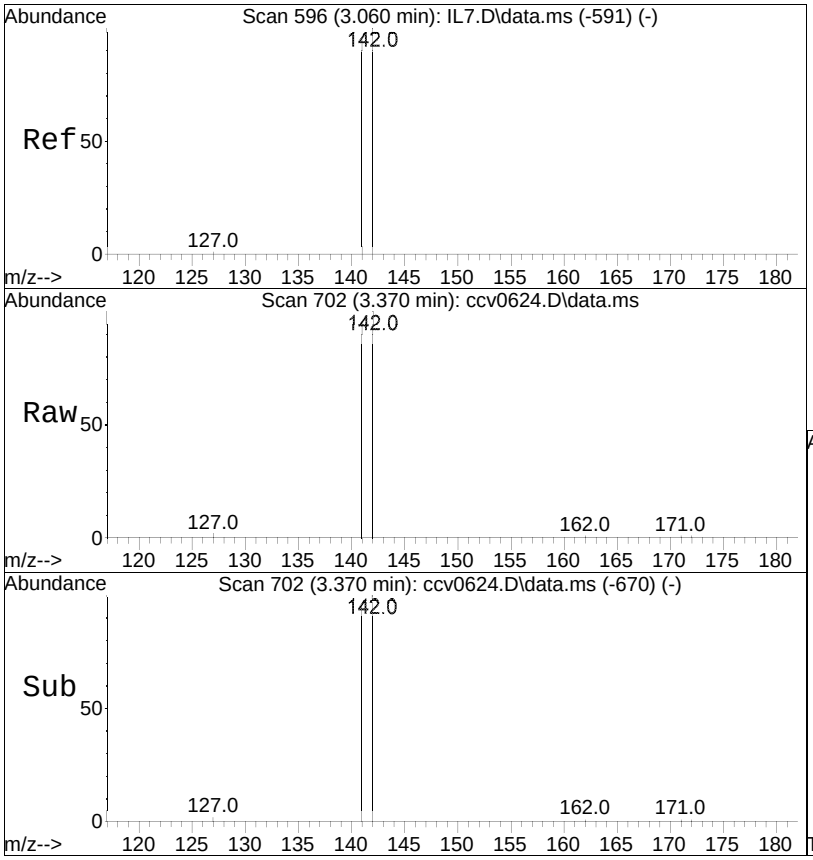


#10
Hexachlorobutadiene
Concen: 916.60 ng/ml
RT: 3.063 min Scan# 610
Delta R.T. 0.000 min
Lab File: ccv0624.D
Acq: 24 Jun 2024 11:21 am

Tgt Ion:225 Resp: 774

Ion	Ratio	Lower	Upper
225	100		
223	63.0	49.9	74.9

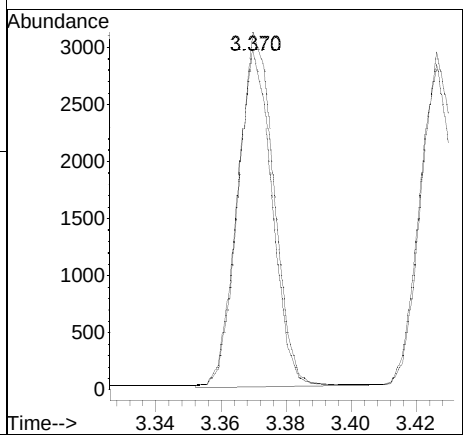


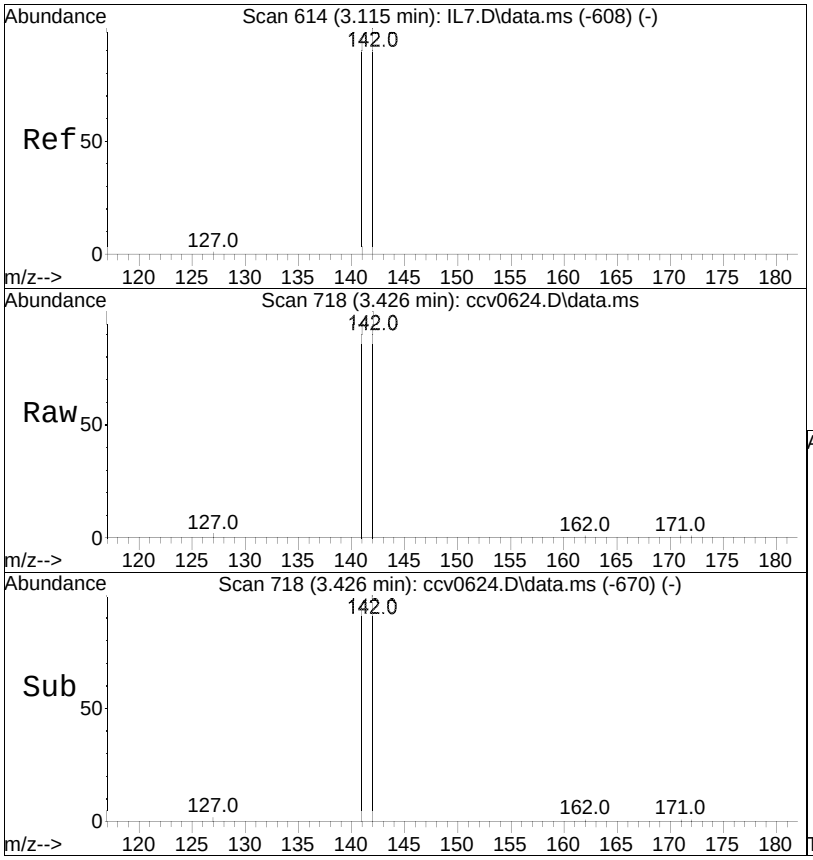


#11
2-Methylnaphthalene
Concen: 1005.13 ng/ml
RT: 3.370 min Scan# 702
Delta R.T. 0.000 min
Lab File: ccv0624.D
Acq: 24 Jun 2024 11:21 am

Tgt Ion:142 Resp: 2367

Ion	Ratio	Lower	Upper
142	100		
141	93.7	75.9	113.9

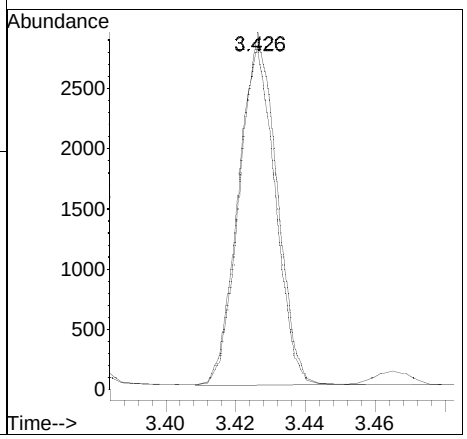


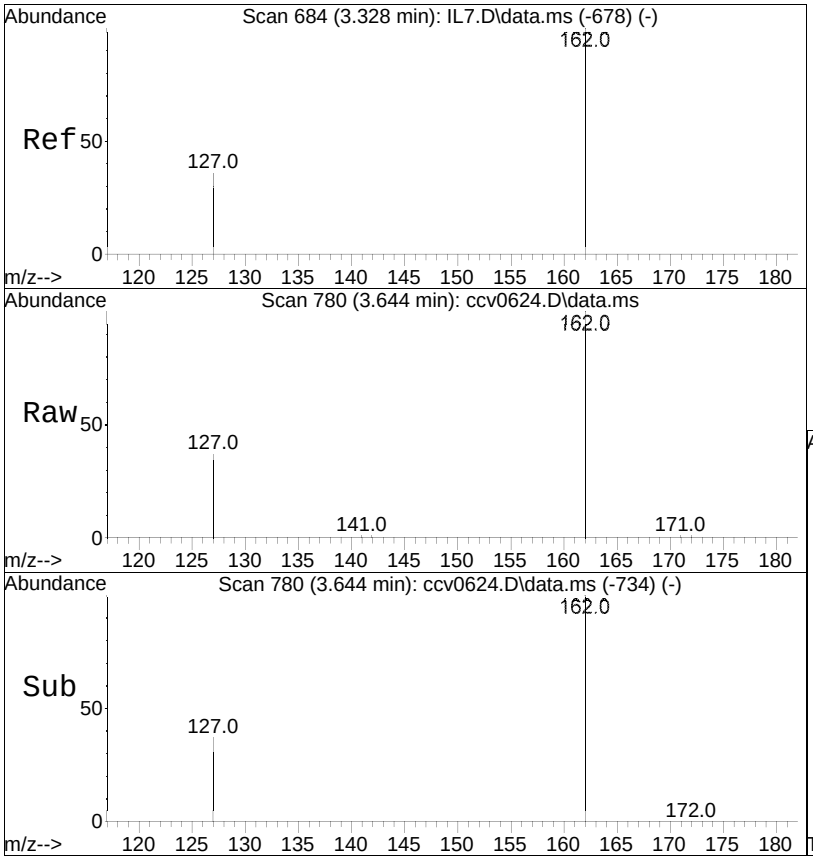


#12
1-Methylnaphthalene
Concen: 966.33 ng/ml
RT: 3.426 min Scan# 718
Delta R.T. 0.000 min
Lab File: ccv0624.D
Acq: 24 Jun 2024 11:21 am

Tgt Ion:142 Resp: 2143

Ion	Ratio	Lower	Upper
142	100		
141	98.7	77.9	116.9

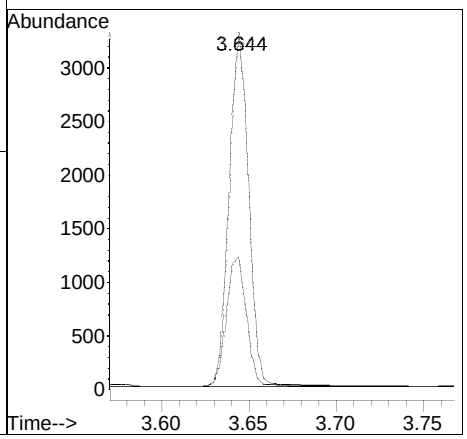


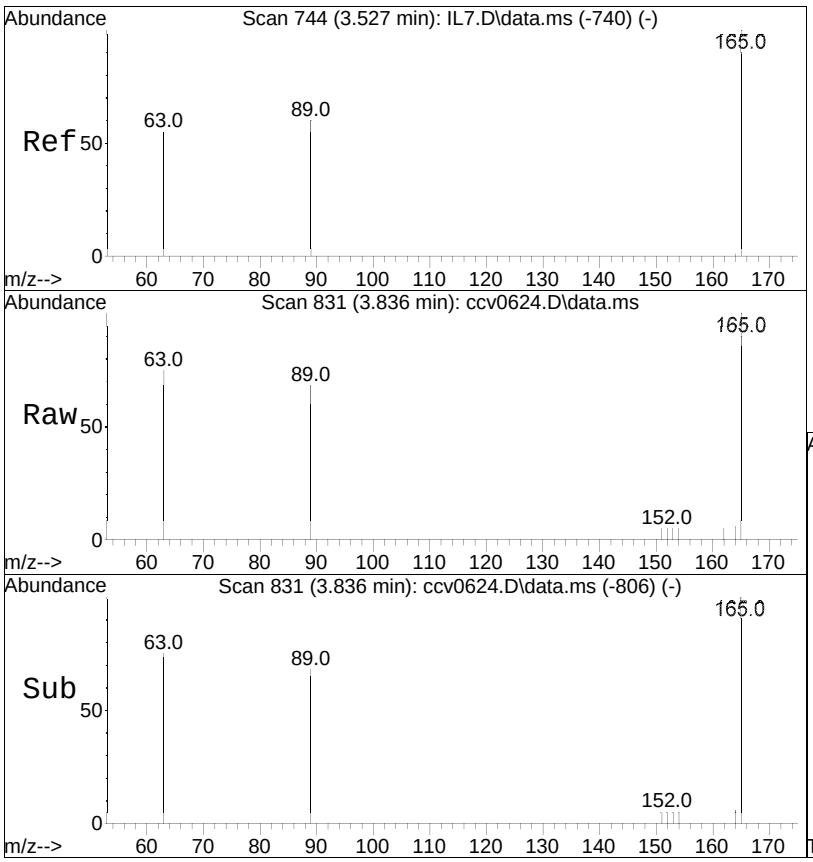


#14
2-Chloronaphthalene
Concen: 967.75 ng/ml
RT: 3.644 min Scan# 780
Delta R.T. 0.000 min
Lab File: ccv0624.D
Acq: 24 Jun 2024 11:21 am

Tgt Ion:162 Resp: 2481

Ion	Ratio	Lower	Upper
162	100		
127	37.7	29.3	43.9

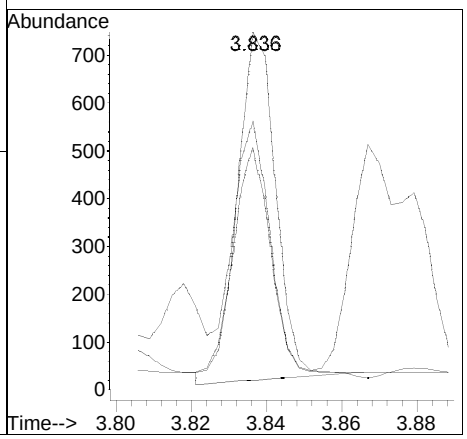


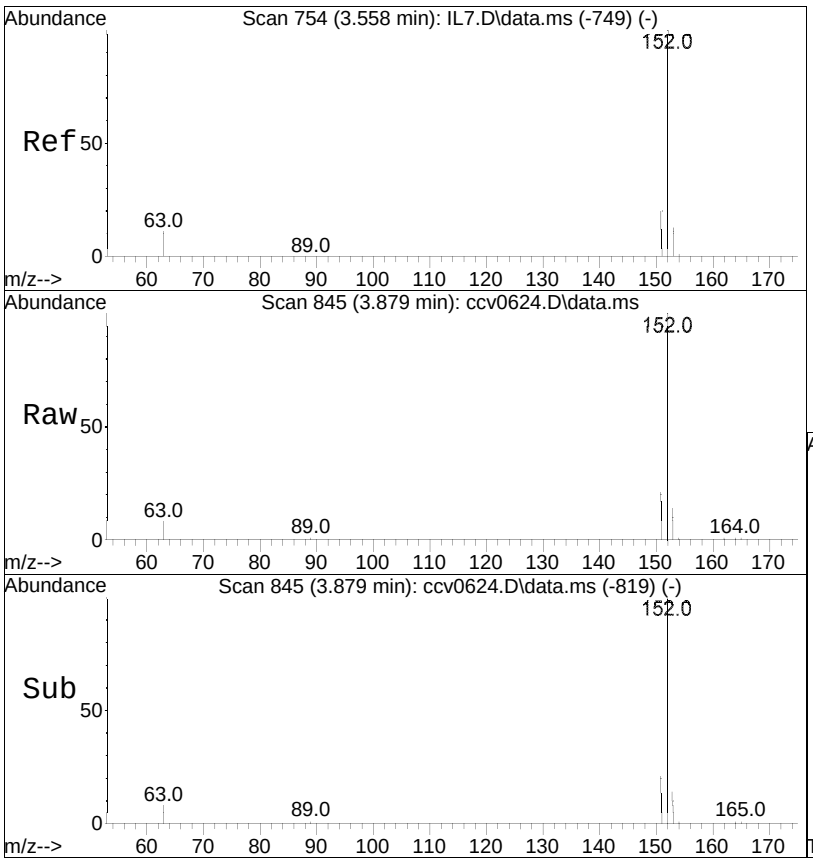


#15
2,6-Dinitrotoluene
Concen: 1136.77 ng/ml
RT: 3.836 min Scan# 831
Delta R.T. 0.000 min
Lab File: ccv0624.D
Acq: 24 Jun 2024 11:21 am

Tgt Ion:165 Resp: 520

Ion	Ratio	Lower	Upper
165	100		
89	70.6	46.6	70.0#
63	75.8	47.8	71.8#

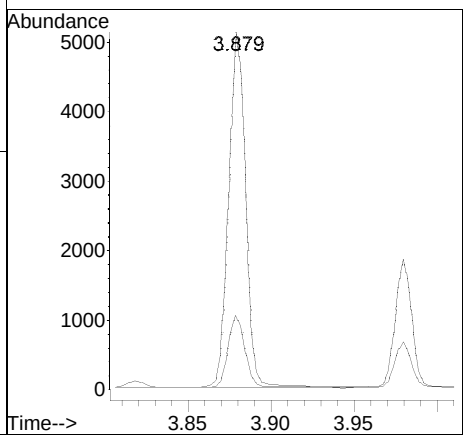


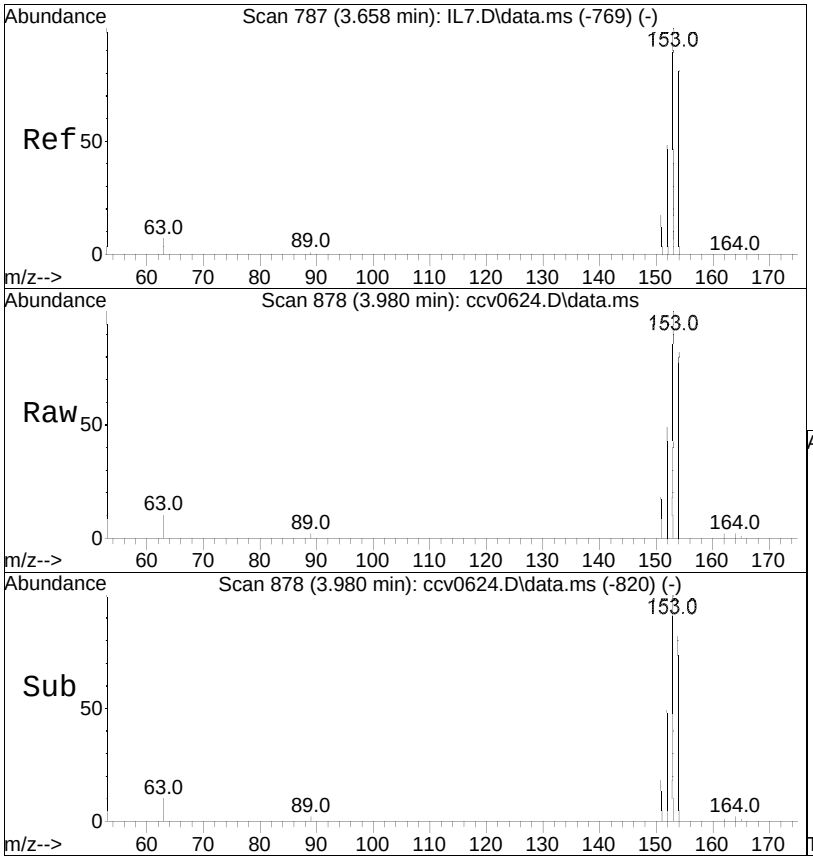


#16
Acenaphthylene
Concen: 949.78 ng/ml
RT: 3.879 min Scan# 845
Delta R.T. 0.000 min
Lab File: ccv0624.D
Acq: 24 Jun 2024 11:21 am

Tgt Ion:152 Resp: 3607

Ion	Ratio	Lower	Upper
152	100		
151	19.9	16.4	24.6

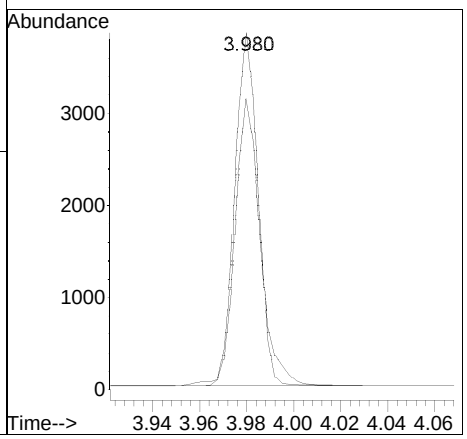


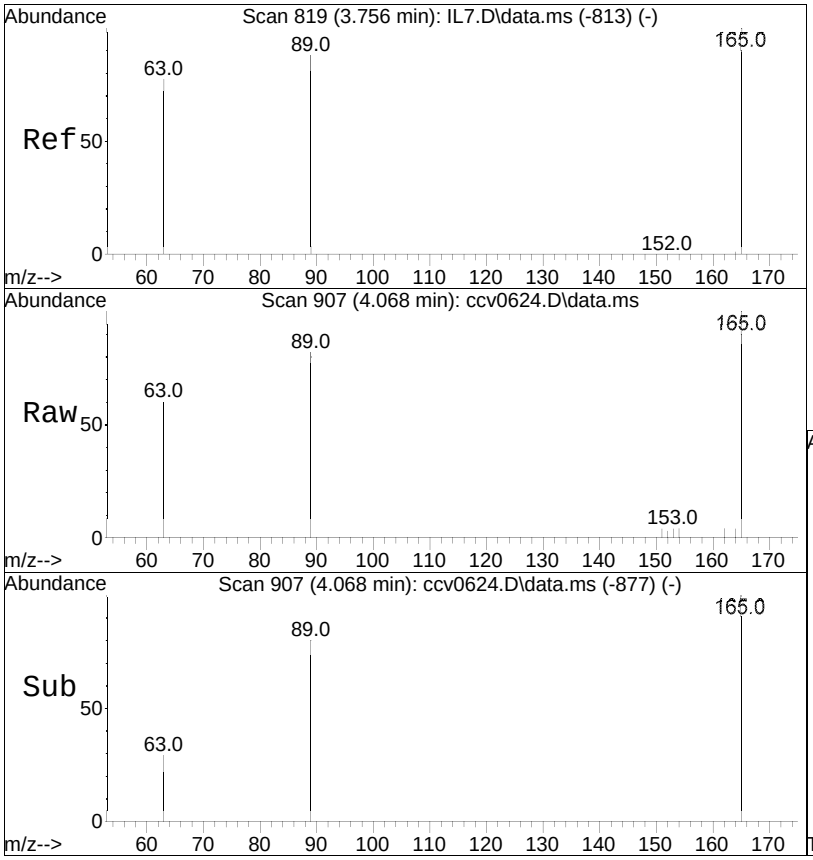


#18
Acenaphthene
Concen: 944.24 ng/ml
RT: 3.980 min Scan# 878
Delta R.T. 0.000 min
Lab File: ccv0624.D
Acq: 24 Jun 2024 11:21 am

Tgt Ion:153 Resp: 2611

Ion	Ratio	Lower	Upper
153	100		
154	89.5	65.8	98.6

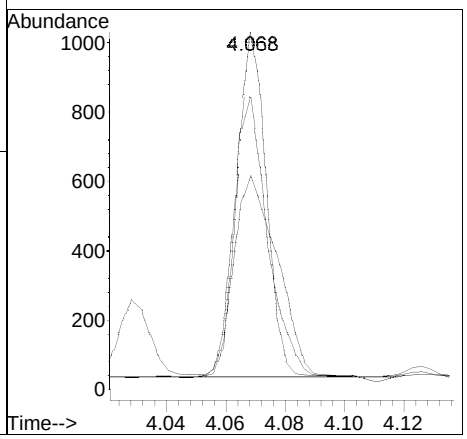


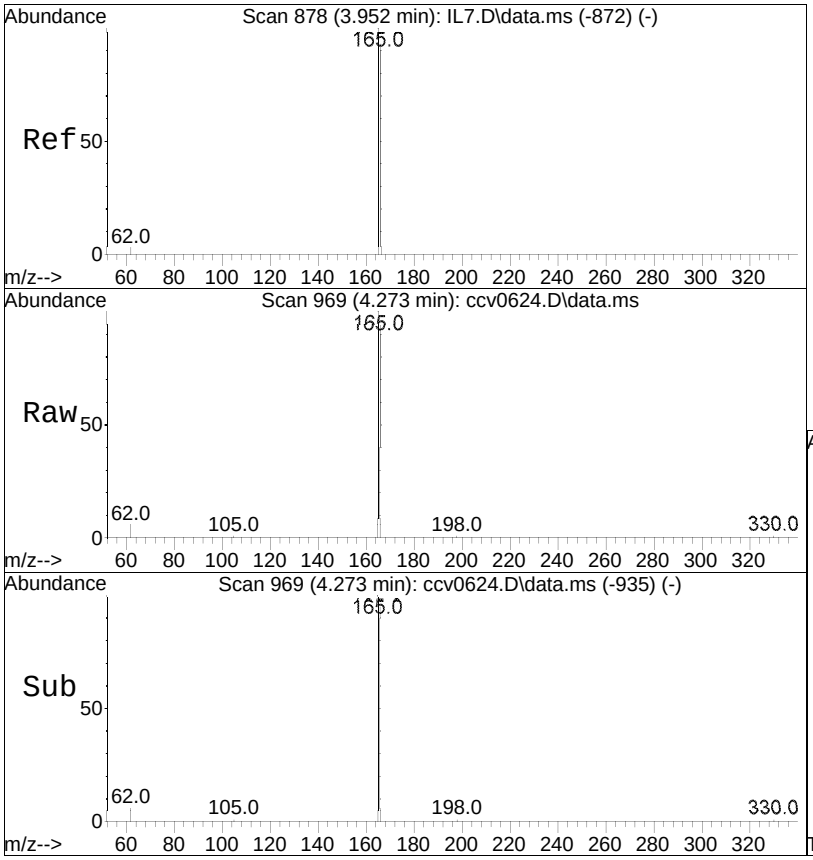


#19
2,4-Dinitrotoluene
Concen: 1102.37 ng/ml
RT: 4.068 min Scan# 907
Delta R.T. 0.000 min
Lab File: ccv0624.D
Acq: 24 Jun 2024 11:21 am

Tgt Ion:165 Resp: 672

Ion	Ratio	Lower	Upper
165	100		
89	95.8	70.6	105.8
63	93.0	62.7	94.1

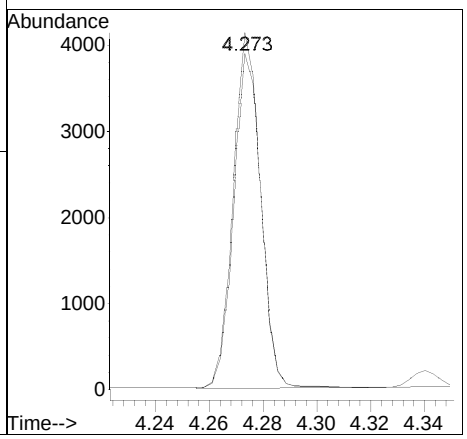


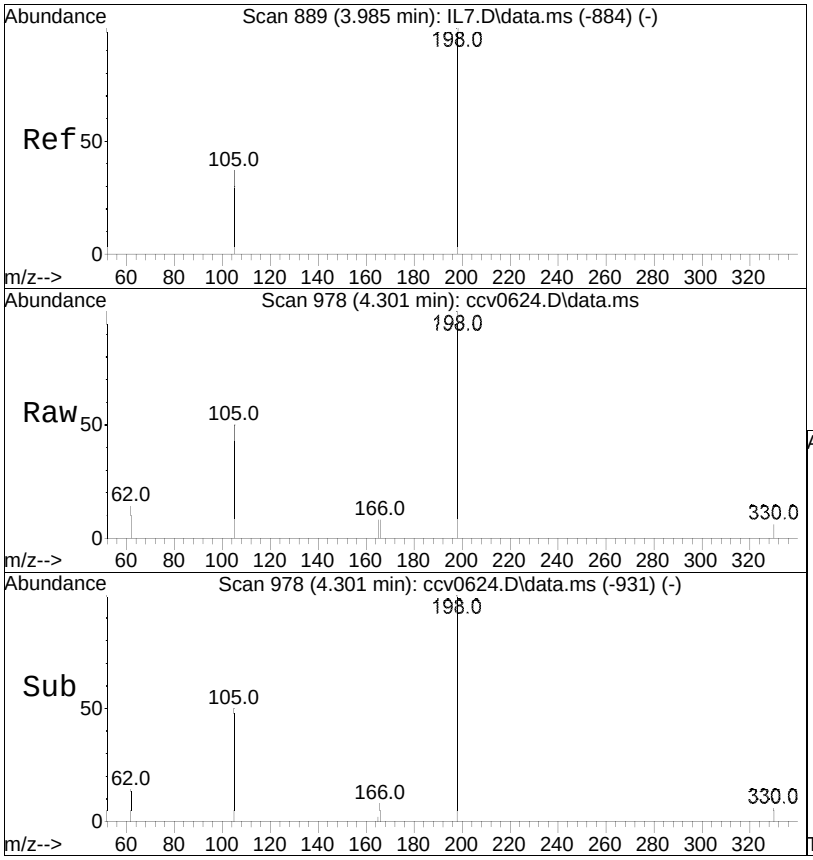


#20
Fluorene
Concen: 992.57 ng/ml
RT: 4.273 min Scan# 969
Delta R.T. 0.000 min
Lab File: ccv0624.D
Acq: 24 Jun 2024 11:21 am

Tgt Ion:166 Resp: 2770

Ion	Ratio	Lower	Upper
166	100		
165	103.5	85.7	128.5

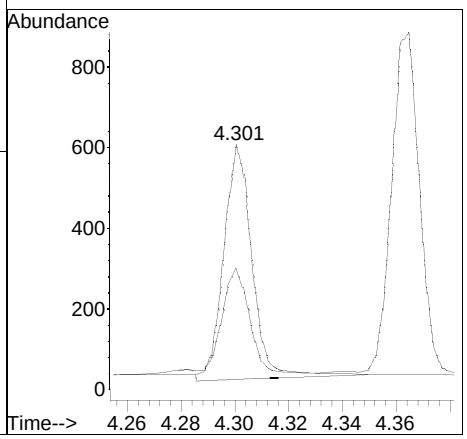


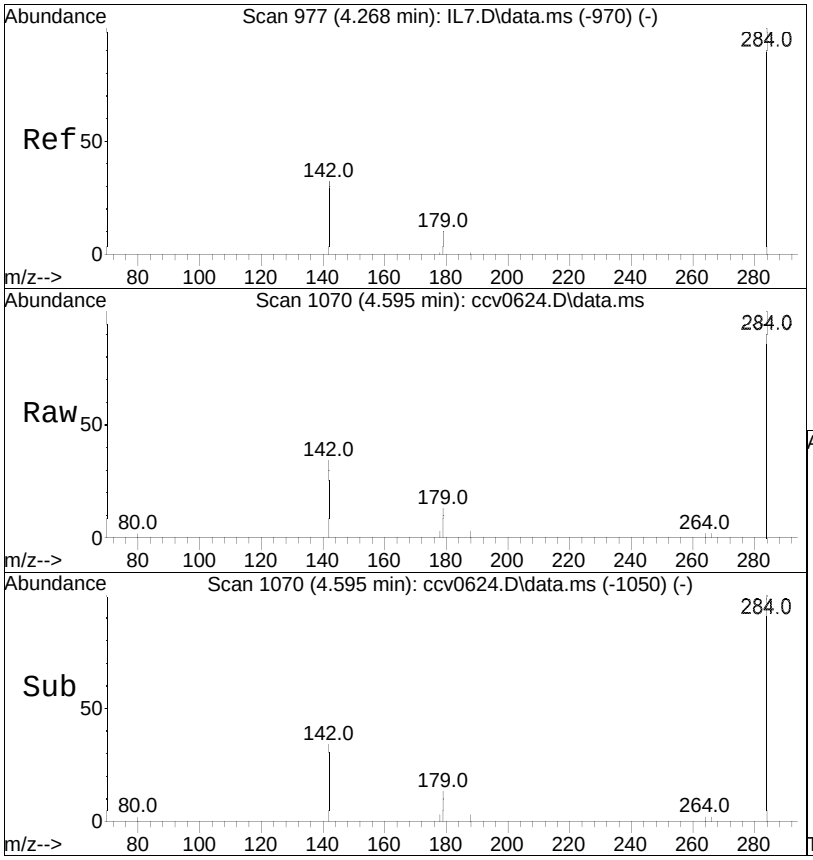


#23
4,6-Dinitro-o-cresol
Concen: 1200.47 ng/ml
RT: 4.301 min Scan# 978
Delta R.T. 0.000 min
Lab File: ccv0624.D
Acq: 24 Jun 2024 11:21 am

Tgt Ion:198 Resp: 427

Ion	Ratio	Lower	Upper
198	100		
105	64.2	31.4	47.2#

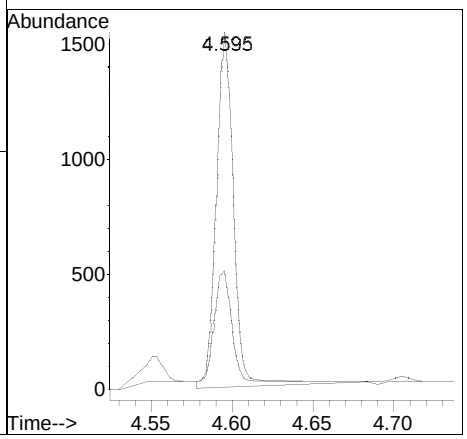


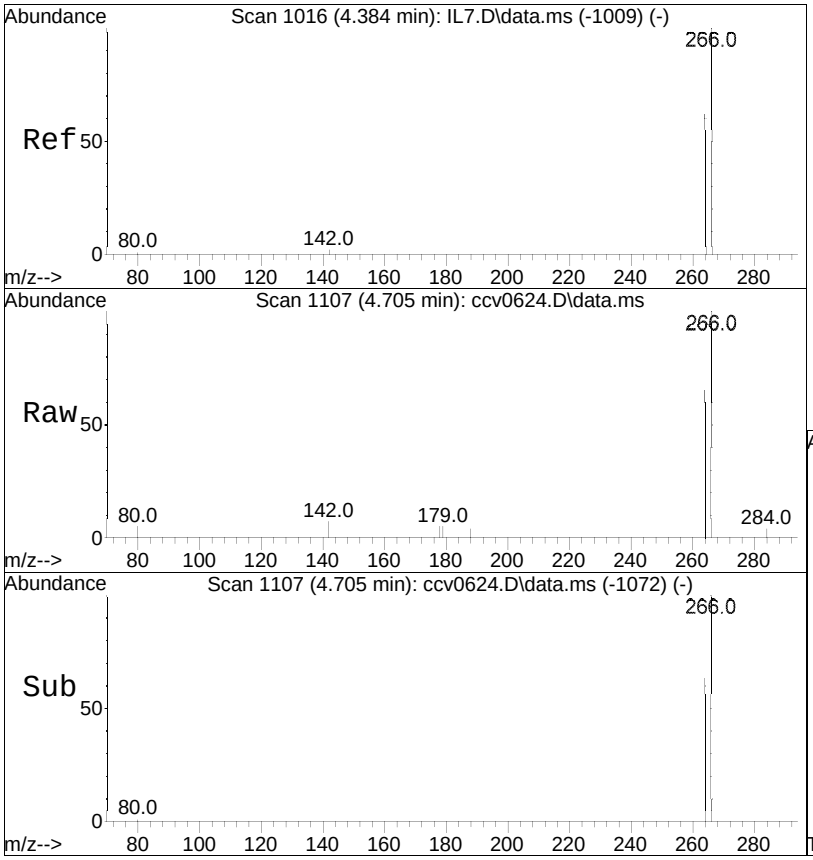


#24
Hexachlorobenzene
Concen: 949.62 ng/ml
RT: 4.595 min Scan# 1070
Delta R.T. 0.000 min
Lab File: ccv0624.D
Acq: 24 Jun 2024 11:21 am

Tgt Ion:284 Resp: 1135

Ion	Ratio	Lower	Upper
284	100		
142	37.5	23.9	35.9#

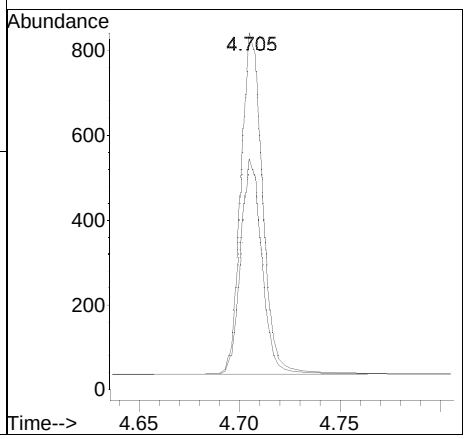


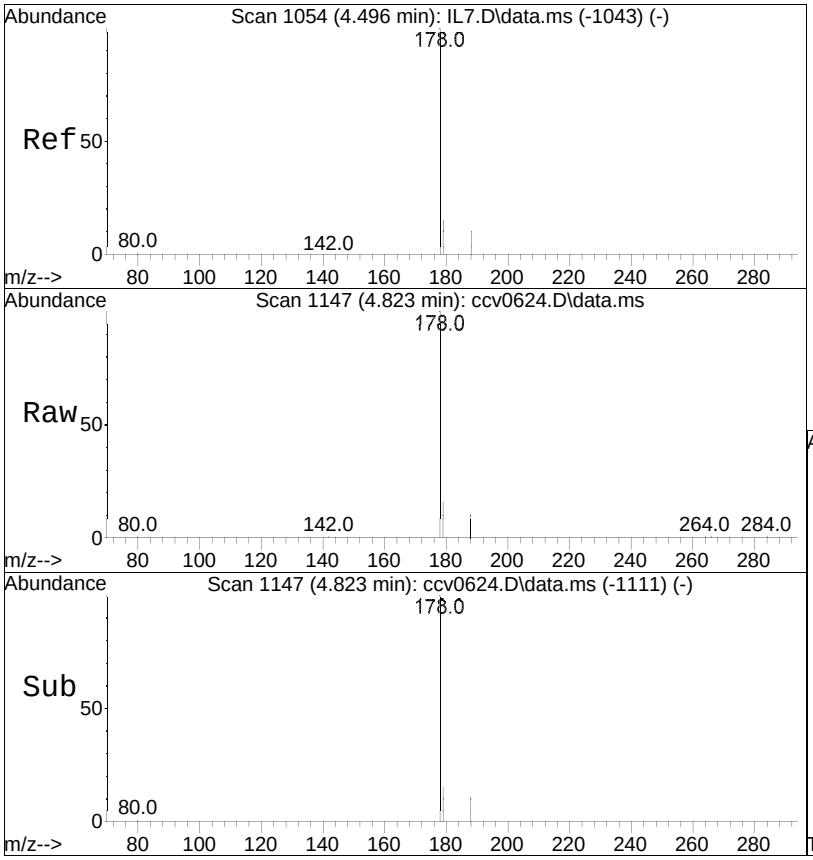


#25
Pentachlorophenol
Concen: 1189.80 ng/ml
RT: 4.705 min Scan# 1107
Delta R.T. 0.000 min
Lab File: ccv0624.D
Acq: 24 Jun 2024 11:21 am

Tgt Ion:266 Resp: 601

Ion	Ratio	Lower	Upper
266	100		
264	61.9	49.7	74.5

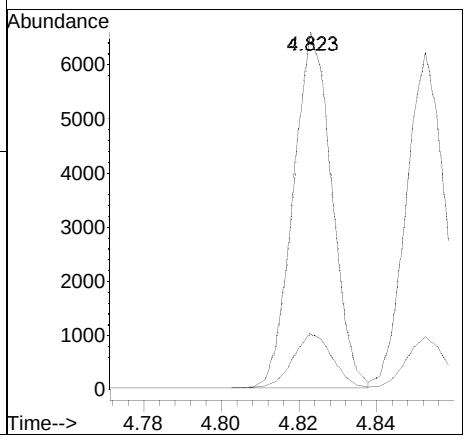


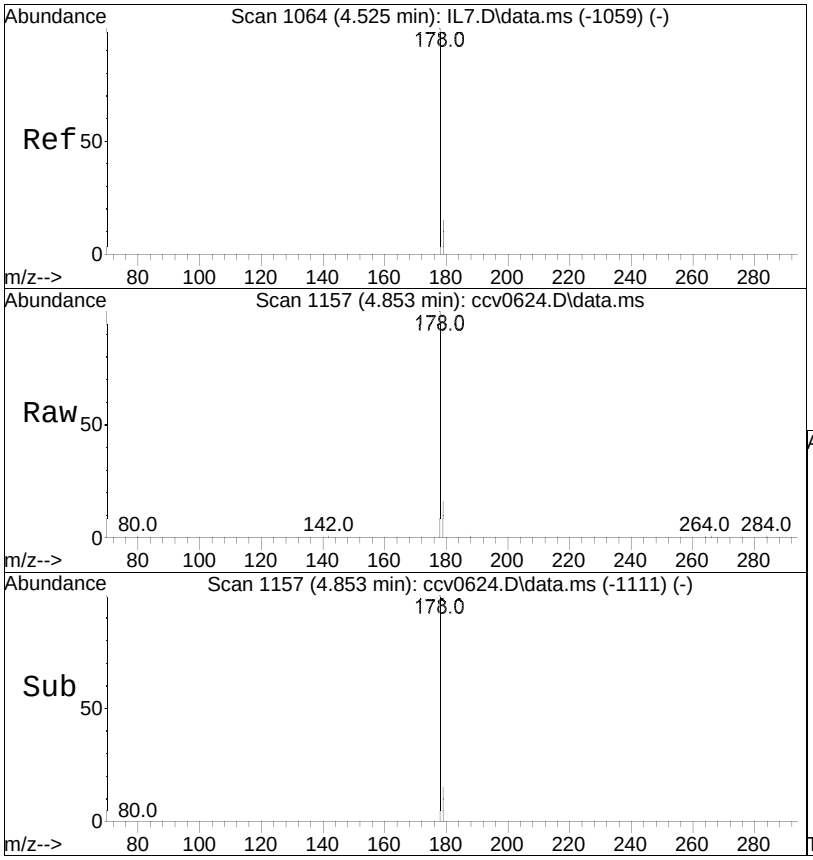


#26
Phenanthrene
Concen: 931.62 ng/ml
RT: 4.823 min Scan# 1147
Delta R.T. 0.000 min
Lab File: ccv0624.D
Acq: 24 Jun 2024 11:21 am

Tgt Ion:178 Resp: 4525

Ion	Ratio	Lower	Upper
178	100		
179	15.5	12.2	18.4

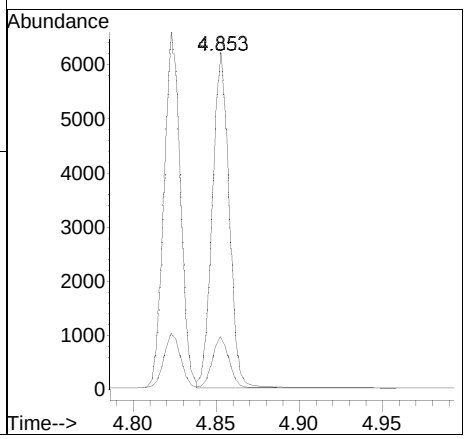


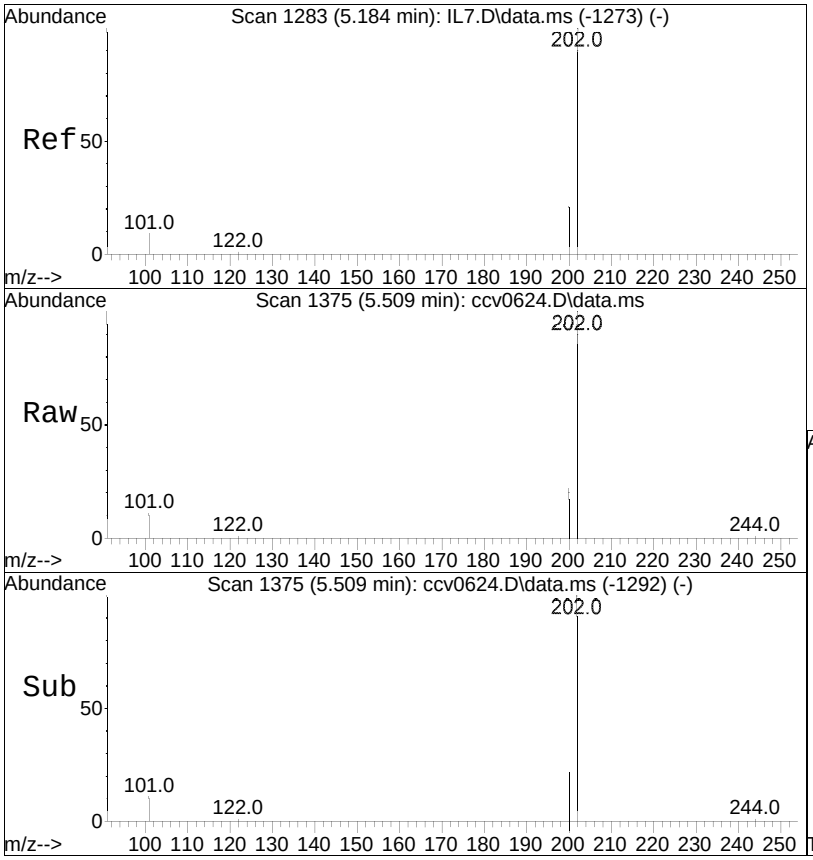


#27
Anthracene
Concen: 923.67 ng/ml
RT: 4.853 min Scan# 1157
Delta R.T. 0.000 min
Lab File: ccv0624.D
Acq: 24 Jun 2024 11:21 am

Tgt Ion:178 Resp: 4335

Ion	Ratio	Lower	Upper
178	100		
179	15.1	12.2	18.2

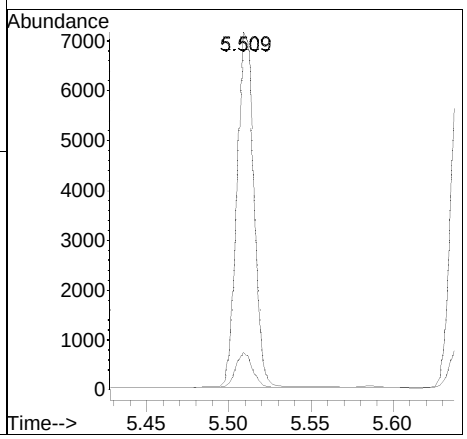


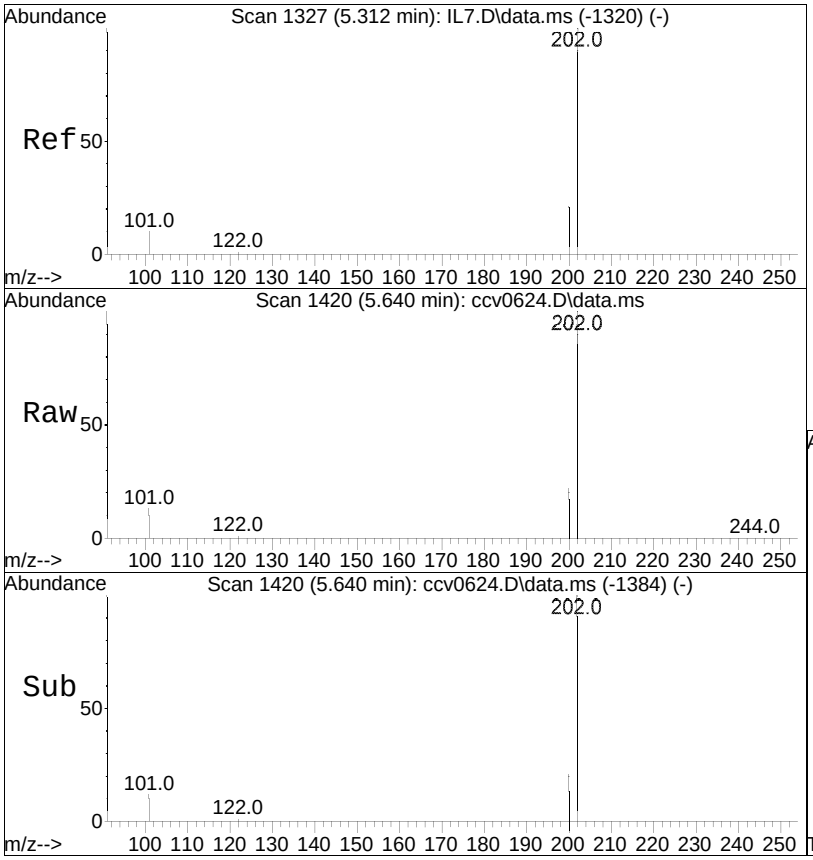


#28
Fluoranthene
Concen: 968.84 ng/ml
RT: 5.509 min Scan# 1375
Delta R.T. 0.000 min
Lab File: ccv0624.D
Acq: 24 Jun 2024 11:21 am

Tgt Ion:202 Resp: 5170

Ion	Ratio	Lower	Upper
202	100		
101	9.7	7.2	10.8

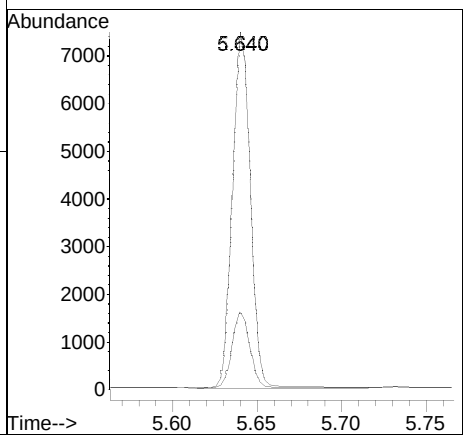


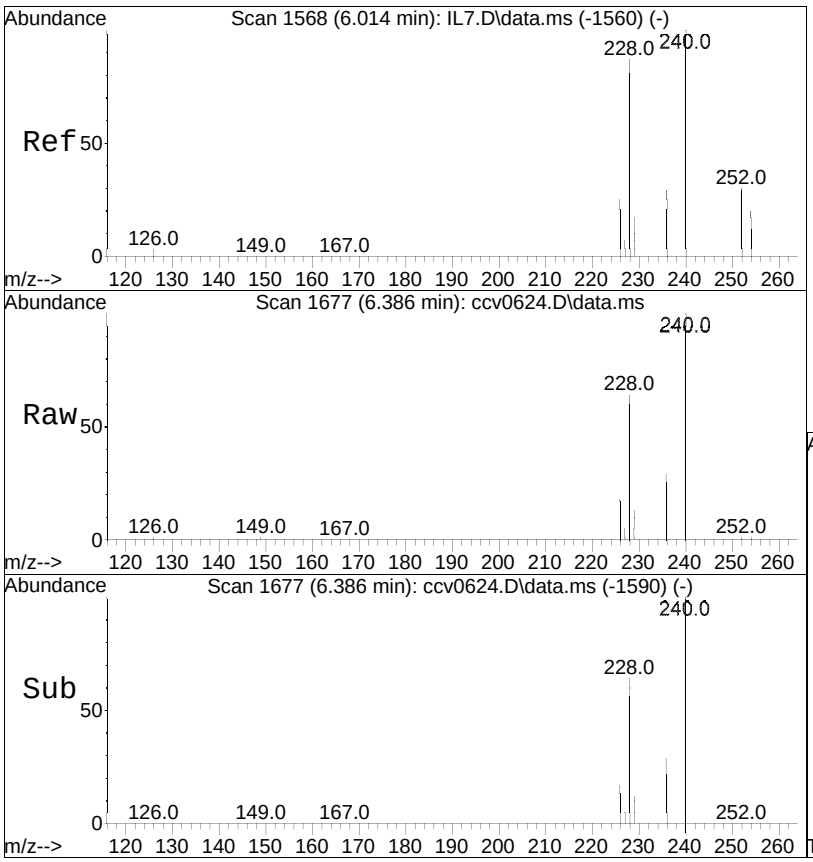


#29
Pyrene
Concen: 998.35 ng/ml
RT: 5.640 min Scan# 1420
Delta R.T. 0.000 min
Lab File: ccv0624.D
Acq: 24 Jun 2024 11:21 am

Tgt Ion:202 Resp: 5512

Ion	Ratio	Lower	Upper
202	100		
200	20.8	17.7	26.5

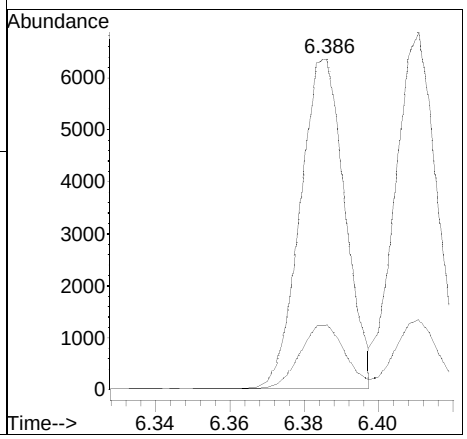


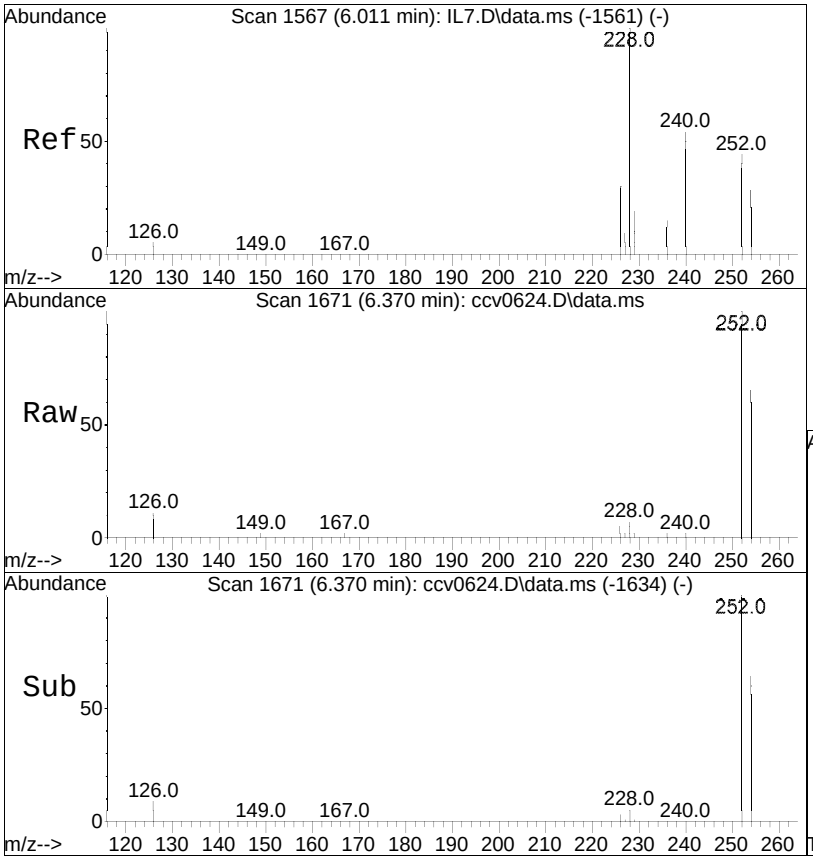


#32
Benzo[a]anthracene
Concen: 889.43 ng/ml
RT: 6.386 min Scan# 1677
Delta R.T. 0.000 min
Lab File: ccv0624.D
Acq: 24 Jun 2024 11:21 am

Tgt Ion:228 Resp: 5287

Ion	Ratio	Lower	Upper
228	100		
229	19.3	15.7	23.5

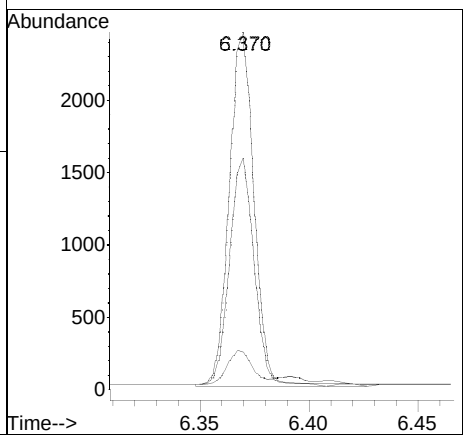


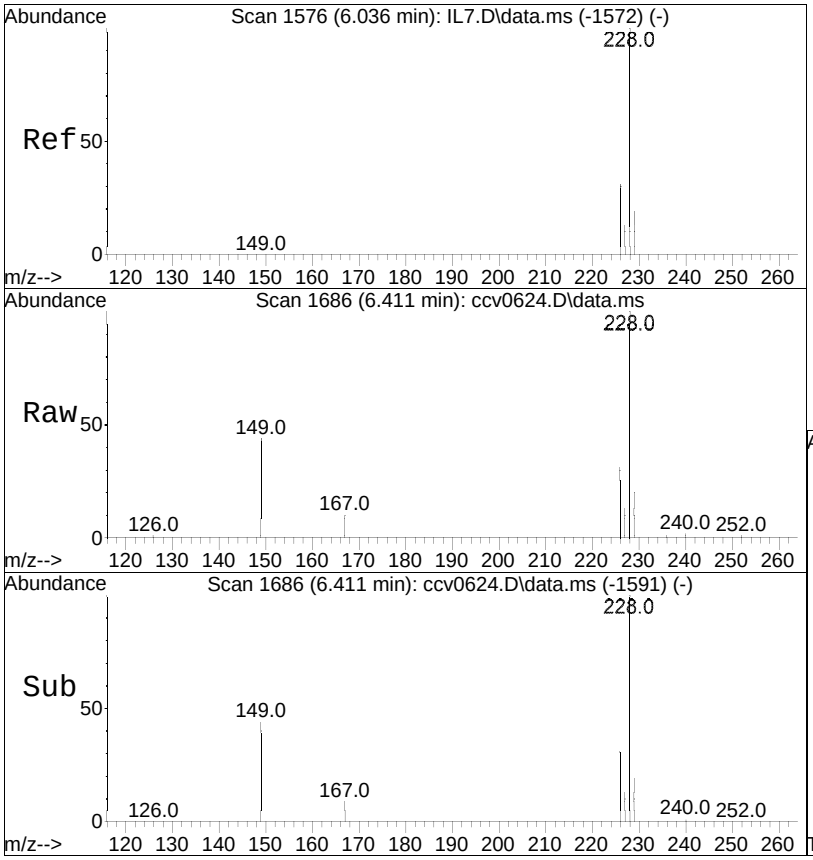


#33
3,3'-Dichlorobenzidine
Concen: 829.19 ng/ml
RT: 6.370 min Scan# 1671
Delta R.T. 0.000 min
Lab File: ccv0624.D
Acq: 24 Jun 2024 11:21 am

Tgt Ion:252 Resp: 1916

Ion	Ratio	Lower	Upper
252	100		
126	9.6	9.4	14.0
254	64.1	51.8	77.6

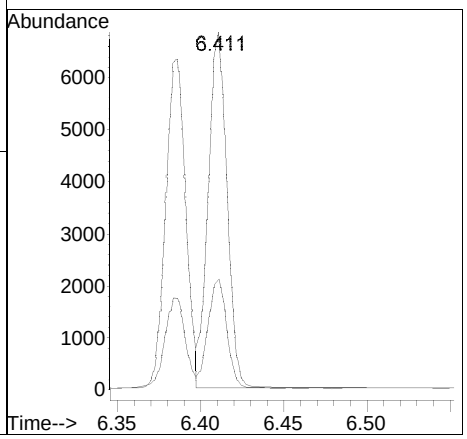


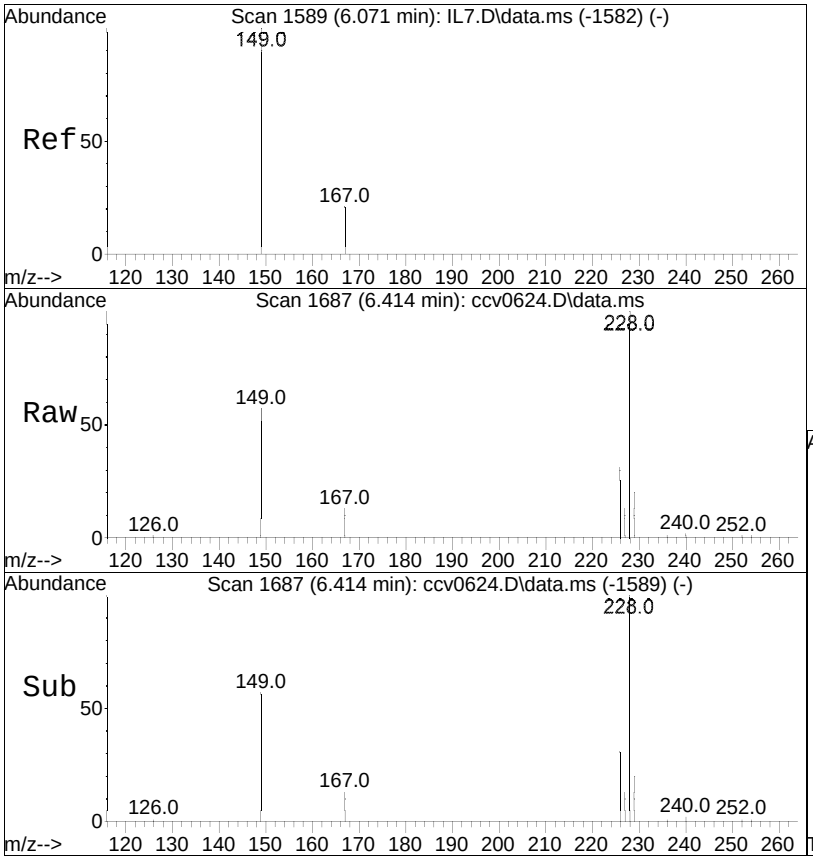


#34
Chrysene
Concen: 939.80 ng/ml
RT: 6.411 min Scan# 1686
Delta R.T. 0.000 min
Lab File: ccv0624.D
Acq: 24 Jun 2024 11:21 am

Tgt Ion:228 Resp: 5333

Ion	Ratio	Lower	Upper
228	100		
226	31.3	24.6	36.8

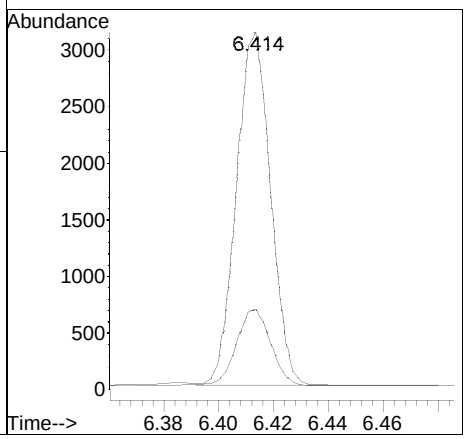


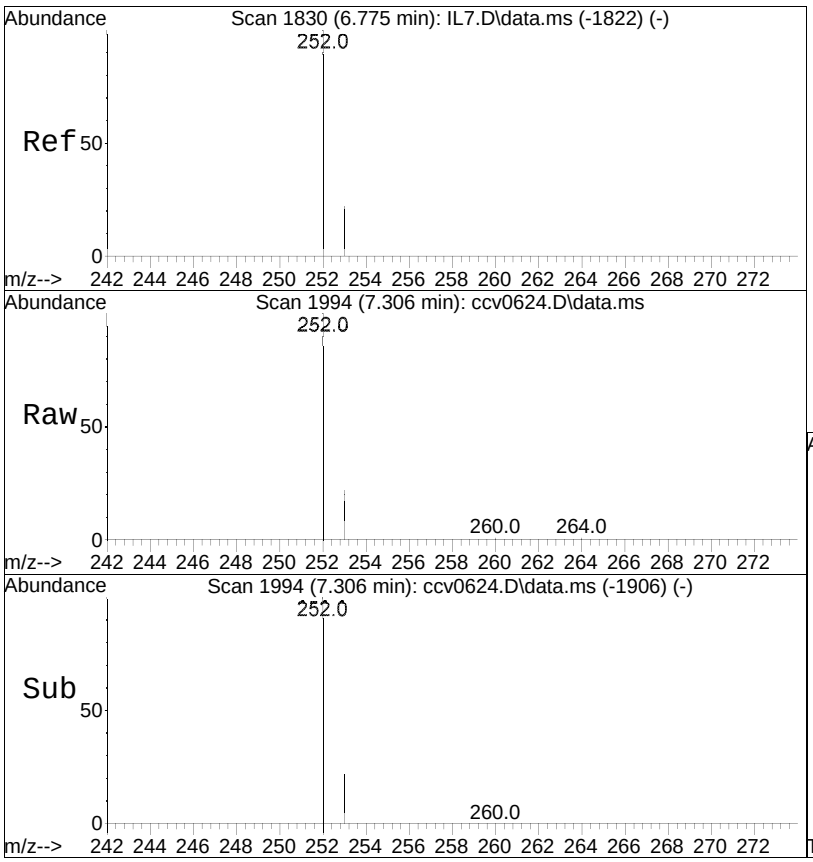


#35
Bis(2-ethylhexyl)phthalate
Concen: 922.99 ng/ml
RT: 6.414 min Scan# 1687
Delta R.T. 0.000 min
Lab File: ccv0624.D
Acq: 24 Jun 2024 11:21 am

Tgt Ion:149 Resp: 2660

Ion	Ratio	Lower	Upper
149	100		
167	21.6	16.4	24.6

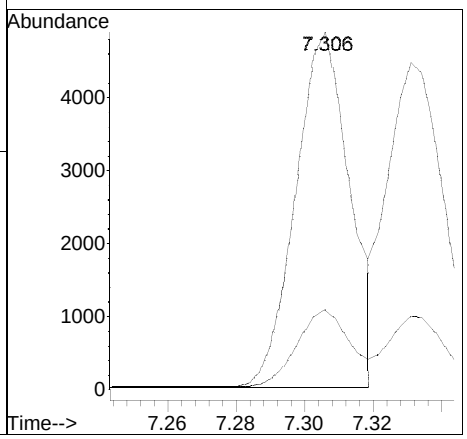


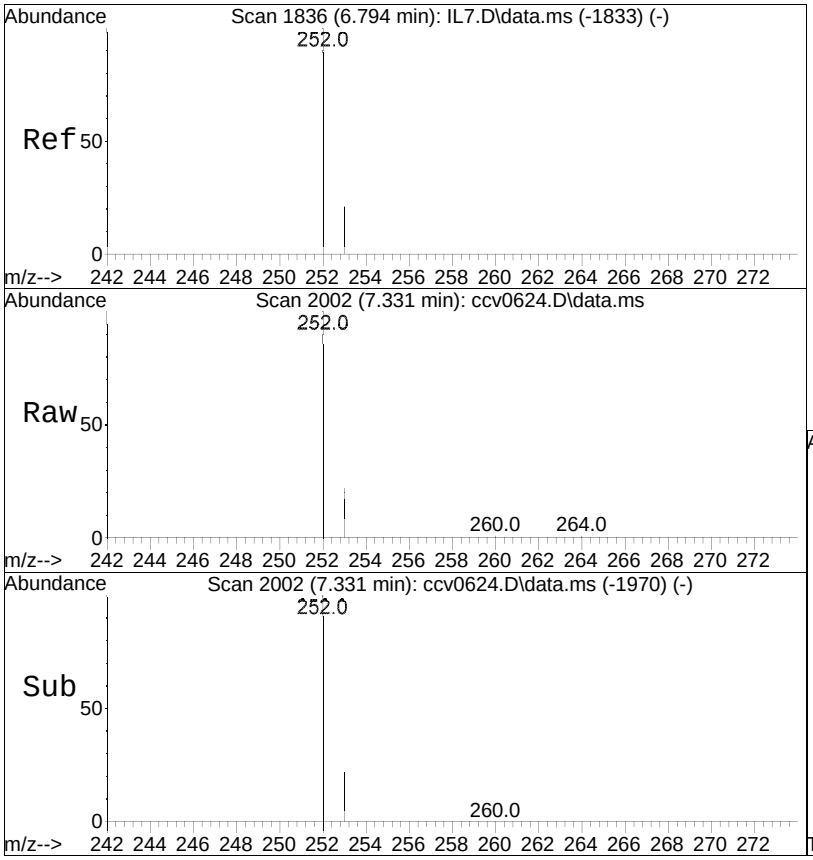


#37
Benzo[b]fluoranthene
Concen: 947.30 ng/ml
RT: 7.306 min Scan# 1994
Delta R.T. 0.000 min
Lab File: ccv0624.D
Acq: 24 Jun 2024 11:21 am

Tgt Ion:252 Resp: 5360

Ion	Ratio	Lower	Upper
252	100		
253	21.5	17.1	25.7

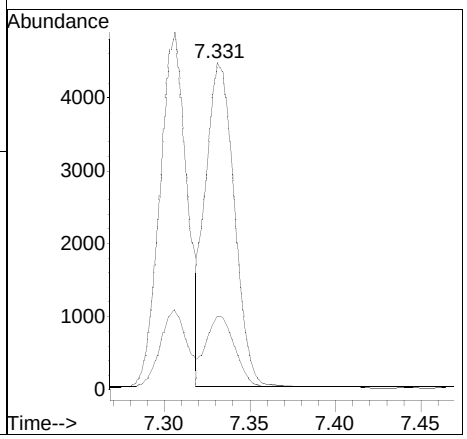


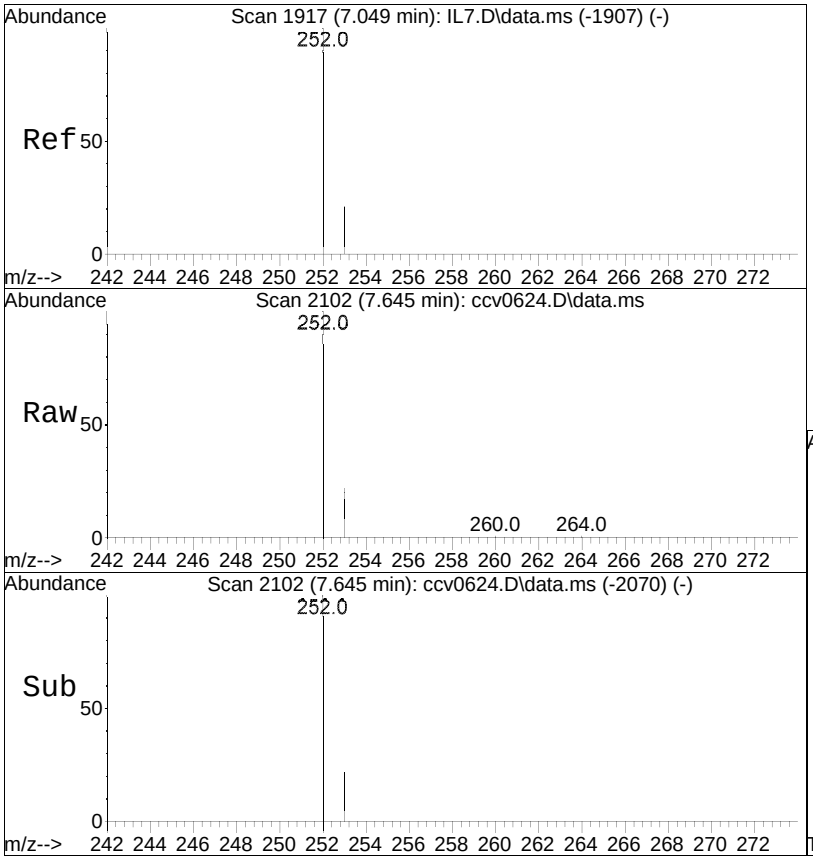


#38
Benzo[k]fluoranthene
Concen: 979.02 ng/ml
RT: 7.331 min Scan# 2002
Delta R.T. 0.000 min
Lab File: ccv0624.D
Acq: 24 Jun 2024 11:21 am

Tgt Ion:252 Resp: 5155

Ion	Ratio	Lower	Upper
252	100		
253	21.7	17.3	25.9

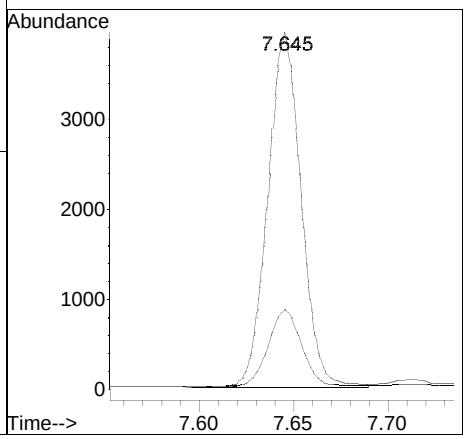


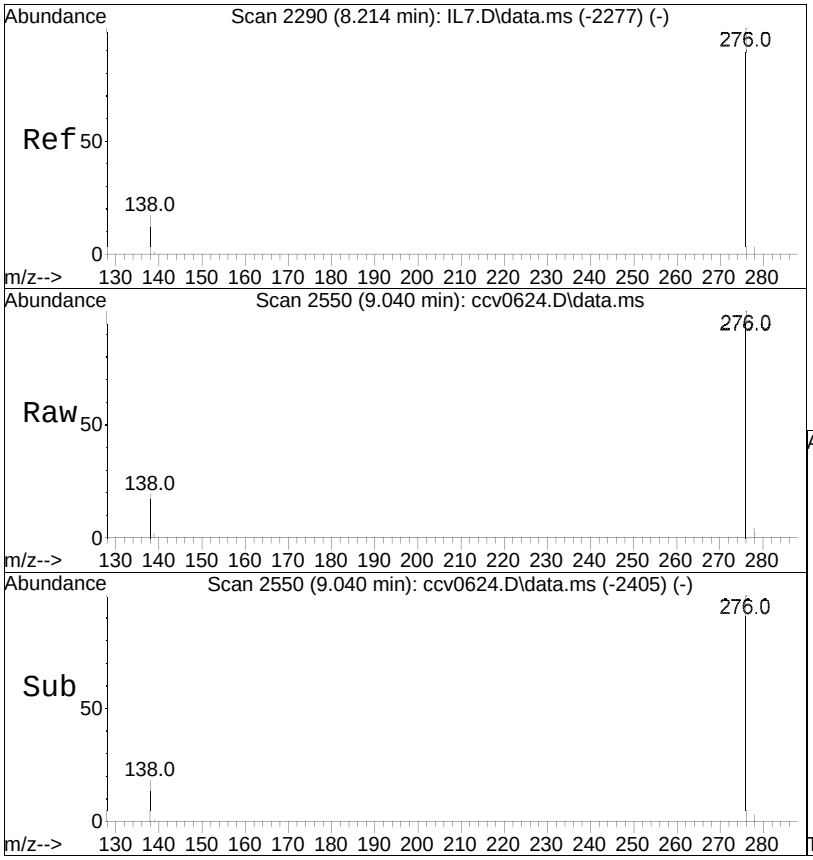


#39
Benzo[a]pyrene
Concen: 963.17 ng/ml
RT: 7.645 min Scan# 2102
Delta R.T. 0.000 min
Lab File: ccv0624.D
Acq: 24 Jun 2024 11:21 am

Tgt Ion:252 Resp: 4799

Ion	Ratio	Lower	Upper
252	100		
253	21.3	17.3	25.9

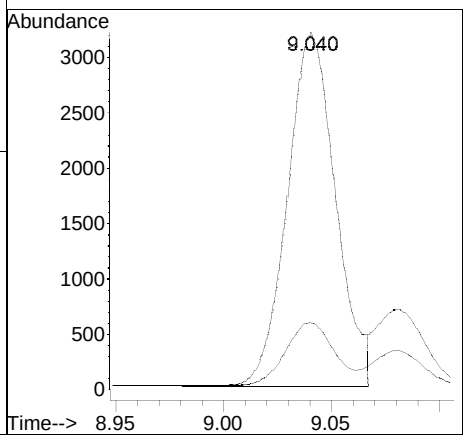


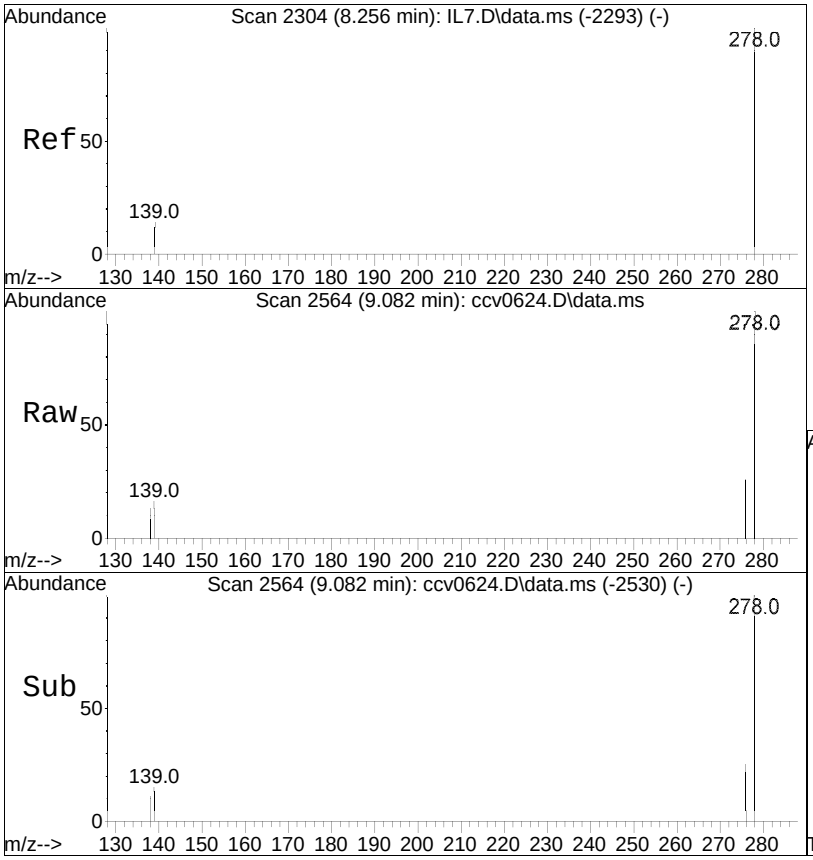


#40
Indeno[1,2,3-cd]pyrene
Concen: 989.94 ng/ml
RT: 9.040 min Scan# 2550
Delta R.T. 0.000 min
Lab File: ccv0624.D
Acq: 24 Jun 2024 11:21 am

Tgt Ion:276 Resp: 4932

Ion	Ratio	Lower	Upper
276	100		
138	18.3	13.4	20.2

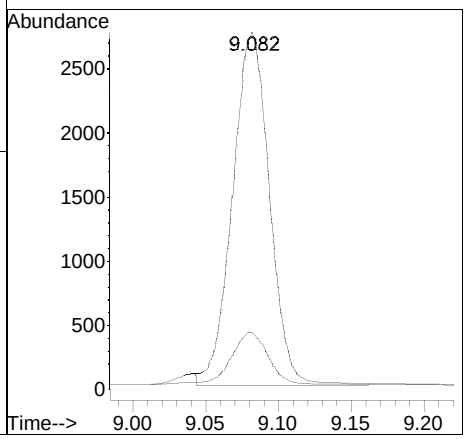


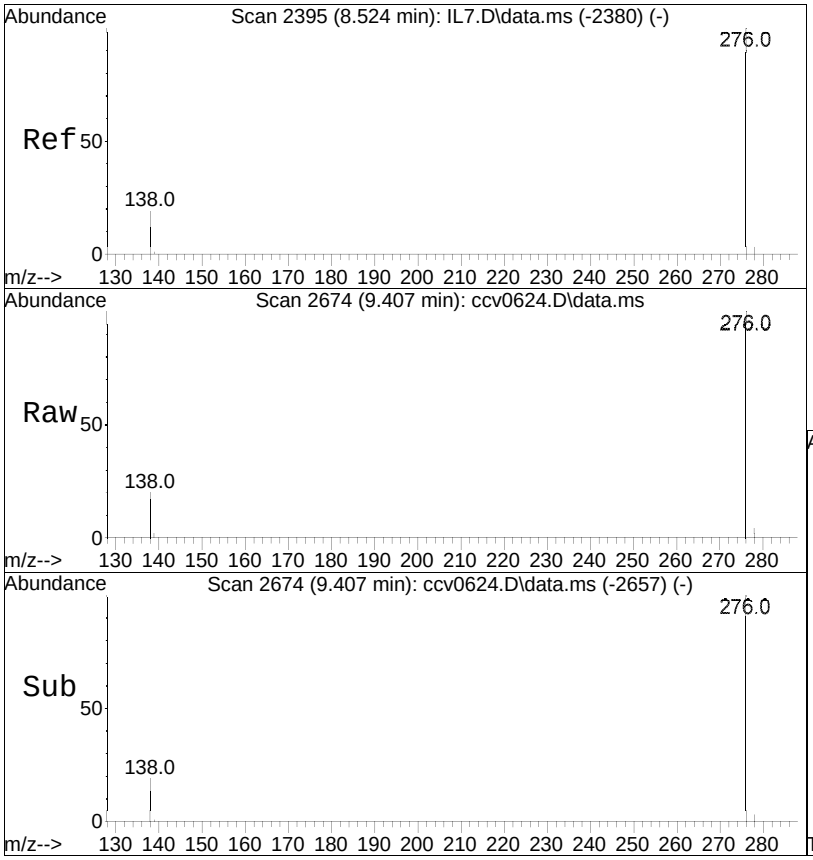


#41
Dibenzo[a,h]anthracene
Concen: 1000.86 ng/ml M6
RT: 9.082 min Scan# 2564
Delta R.T. 0.000 min
Lab File: ccv0624.D
Acq: 24 Jun 2024 11:21 am

Tgt Ion:278 Resp: 4843

Ion	Ratio	Lower	Upper
278	100		
139	15.0	10.9	16.3

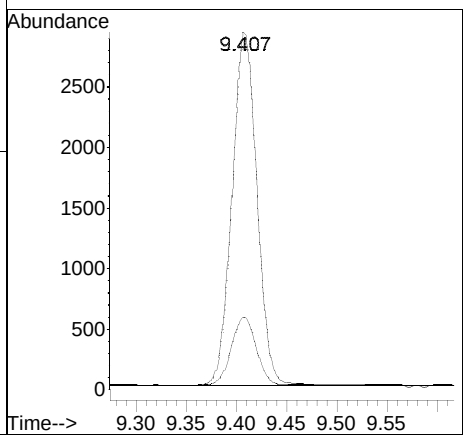




#42
Benzo[g,h,i]perylene
Concen: 955.10 ng/ml M1
RT: 9.407 min Scan# 2674
Delta R.T. 0.000 min
Lab File: ccv0624.D
Acq: 24 Jun 2024 11:21 am

Tgt Ion:276 Resp: 4946

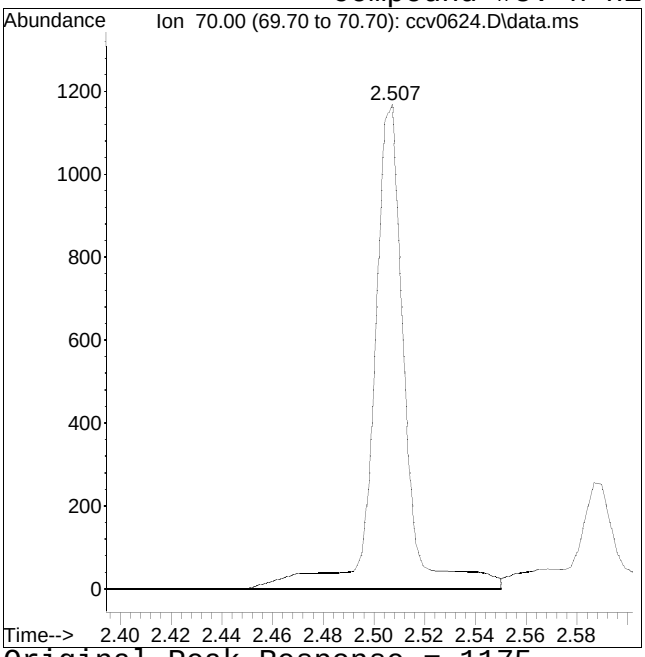
Ion	Ratio	Lower	Upper
276	100		
138	19.5	14.8	22.2



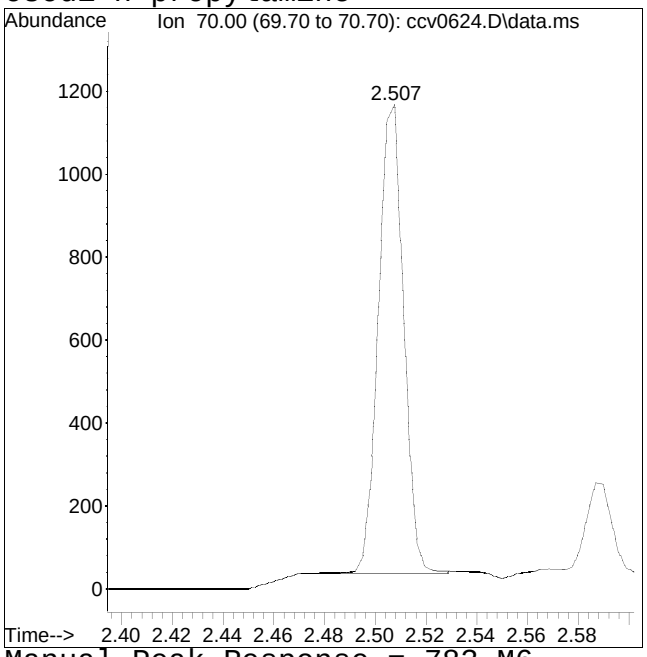
Manual Integration Report

Data Path : I:\8270SIM\SV128\240624\ QMethod : SIM-LVI_231211_sv128.M
Data File : ccv0624.D Operator : SV128:jjw
Date Inj'd : 6/24/2024 11:21 am Instrument : SV128
Sample : wg1938533-3,32,,ICV 10475 Quant Date : 6/24/2024 11:39 am

Compound #5: n-nitrosodi-n-propylamine



Original Peak Response = 1175



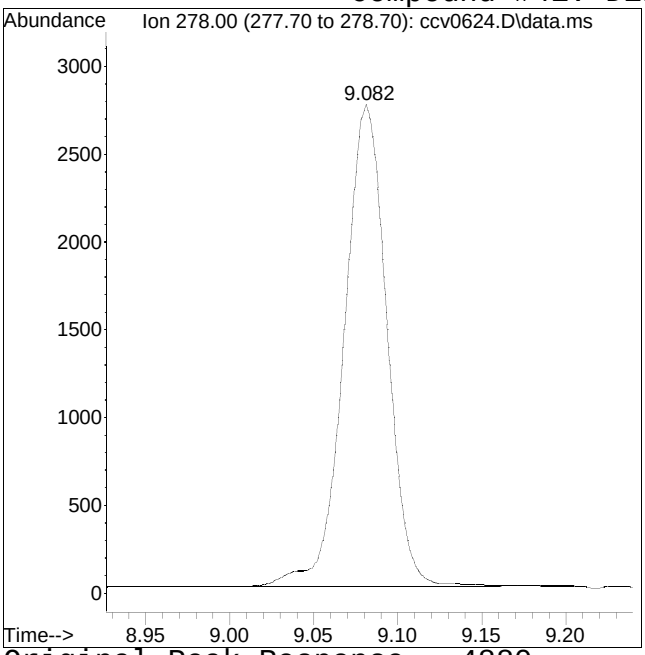
Manual Peak Response = 783 M6

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

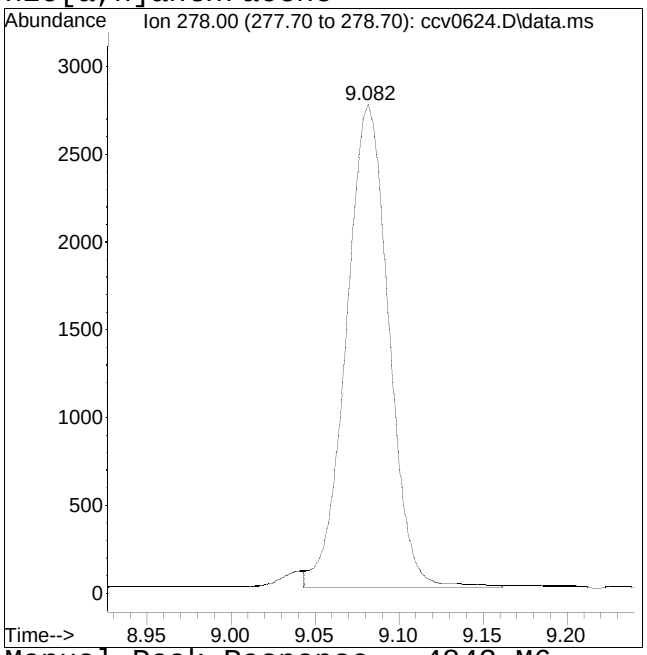
Manual Integration Report

Data Path : I:\8270SIM\SV128\240624\ QMethod : SIM-LVI_231211_sv128.M
Data File : ccv0624.D Operator : SV128:jjw
Date Inj'd : 6/24/2024 11:21 am Instrument : SV128
Sample : wg1938533-3,32,,ICV 10475 Quant Date : 6/24/2024 11:39 am

Compound #41: Dibenzo[a,h]anthracene



Original Peak Response = 4880



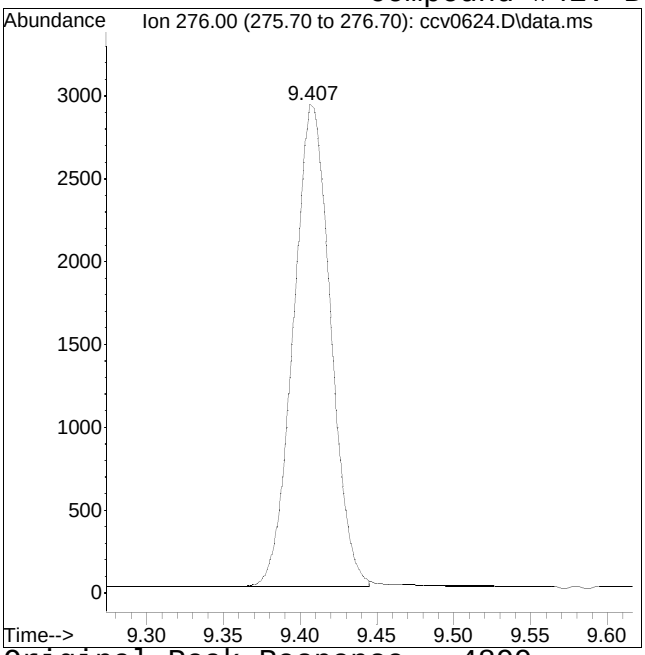
Manual Peak Response = 4843 M6

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

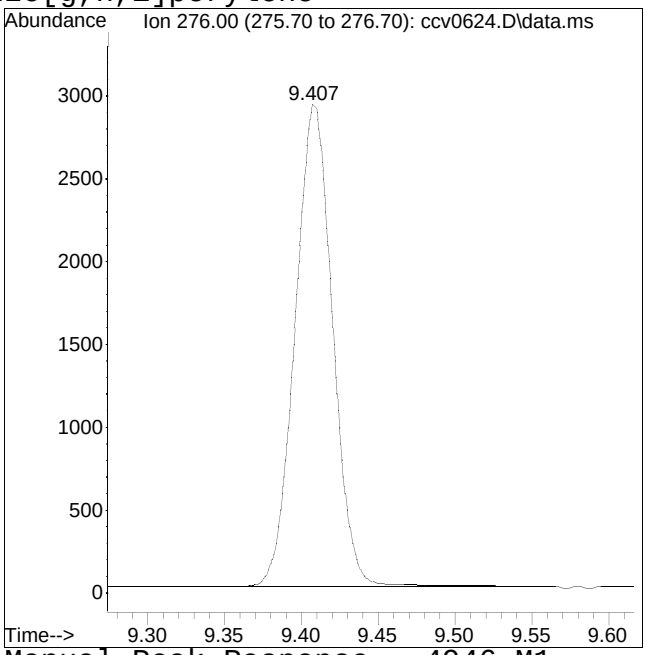
Manual Integration Report

Data Path : I:\8270SIM\SV128\240624\ QMethod : SIM-LVI_231211_sv128.M
Data File : ccv0624.D Operator : SV128:jjw
Date Inj'd : 6/24/2024 11:21 am Instrument : SV128
Sample : wg1938533-3,32,,ICV 10475 Quant Date : 6/24/2024 11:39 am

Compound #42: Benzo[g,h,i]perylene



Original Peak Response = 4899



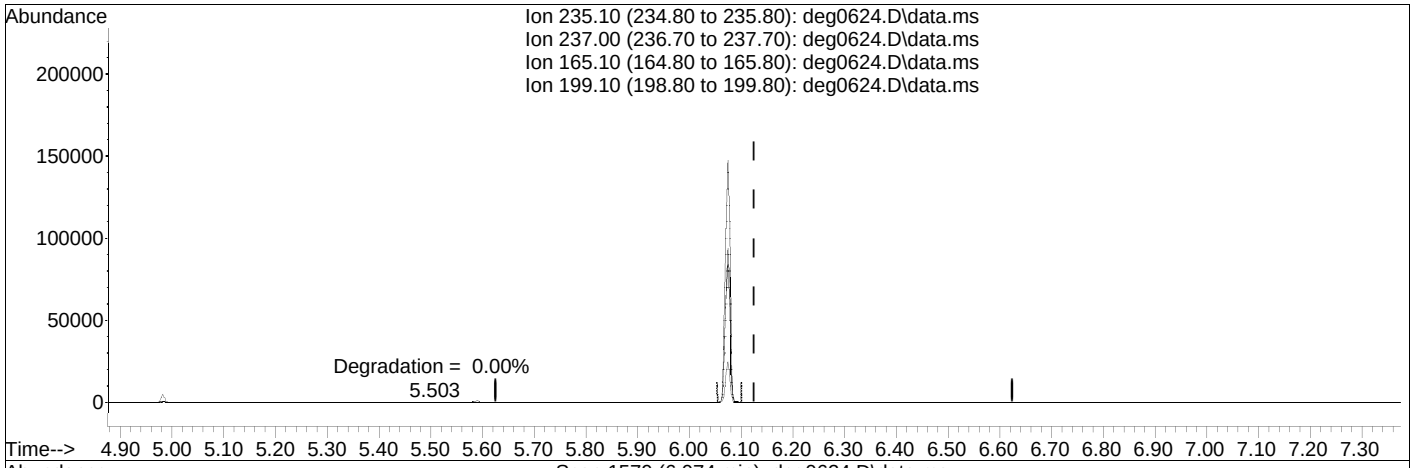
Manual Peak Response = 4946 M1

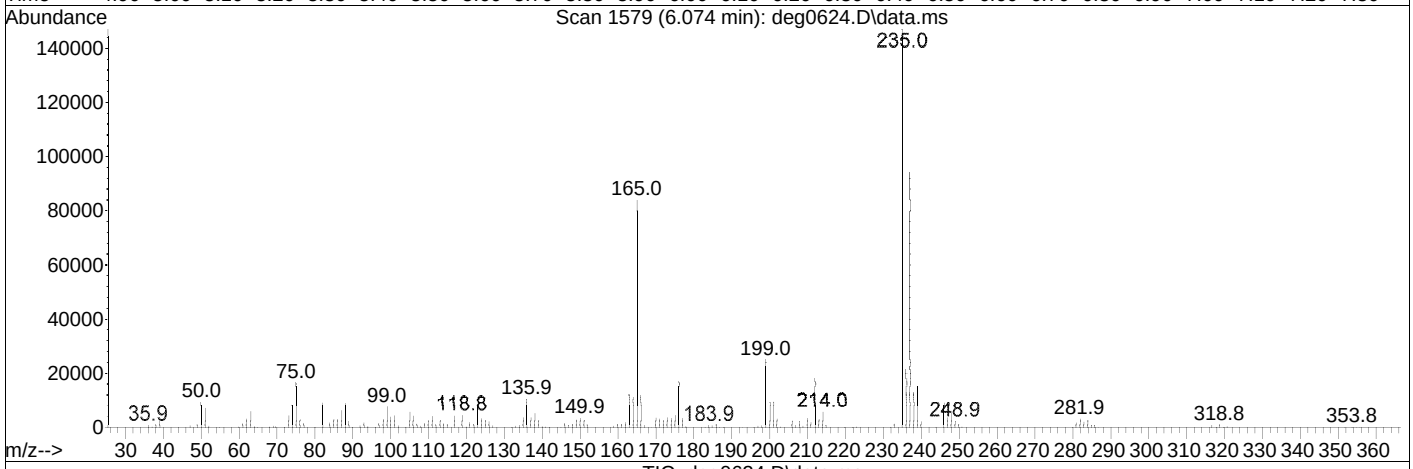
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Quantitation Report (Qedit)

Data Path : I:\8270SIM\SV128\240624\
Data File : deg0624.D
Acq On : 24 Jun 2024 11:04 am
Operator : SV128:jjw
Sample : WG1938533-2,32,, dftpp sv128 lot# 10744
Misc : WG1938533,,ical20676
ALS Vial : 48 Sample Multiplier: 1

Quant Time: Jun 24 11:18:48 2024
Quant Method : I:\8270SIM\SV128\240624\dftppsv128.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Sat Jun 22 16:12:16 2024
Response via : Continuing Cal File: C:\ENVDEMO\BNADATA\DLWB002.D





TIC: deg0624.D\data.ms

(6) ddt (T)

6.074min (-0.051) 13.90

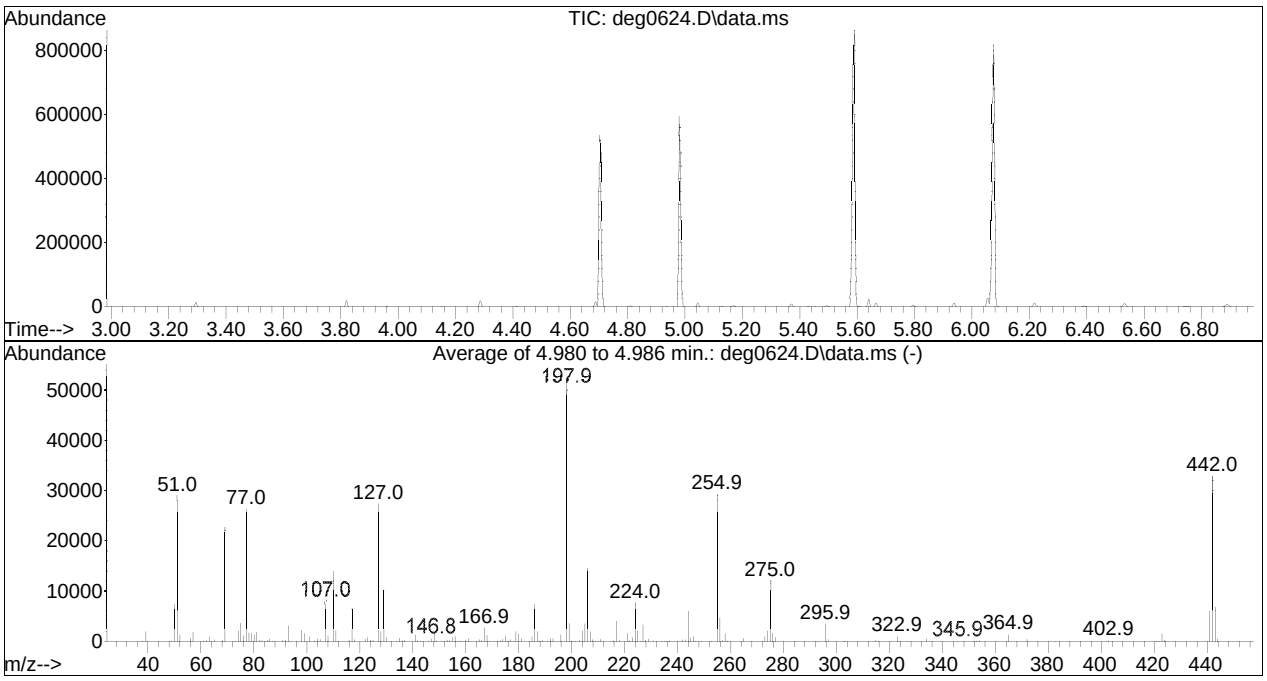
response 84712

Ion	Exp%	Act%
235.10	100.00	100.00
237.00	65.60	63.66
165.10	53.30	56.75
199.10	17.10	16.62

Data Path : I:\8270SIM\SV128\240624\
Data File : deg0624.D
Acq On : 24 Jun 2024 11:04 am
Operator : SV128:jjw
Sample : WG1938533-1,32,, dftpp sv128 lot# 10744
Misc : WG1938533,,ical20676
ALS Vial : 48 Sample Multiplier: 1

Integration File: rteint.p

Method : I:\8270SIM\SV128\240624\SIM-LVI_231211_sv128.M
Title : Semivolatiles by GC/MS by modified 8270
Last Update : Mon Jun 24 11:39:29 2024



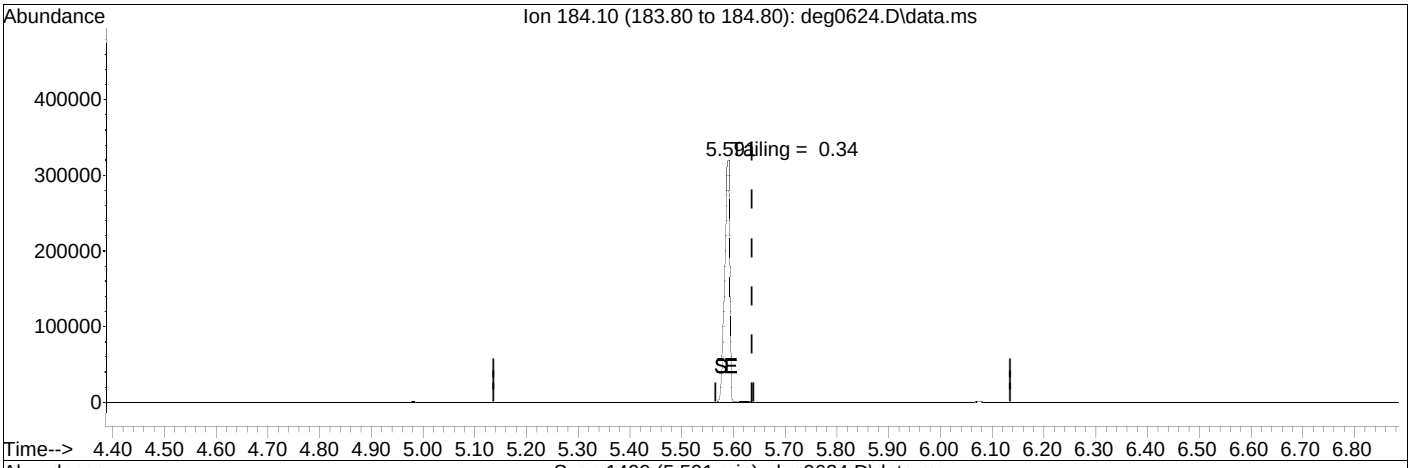
Spectrum Information: Average of 4.980 to 4.986 min.

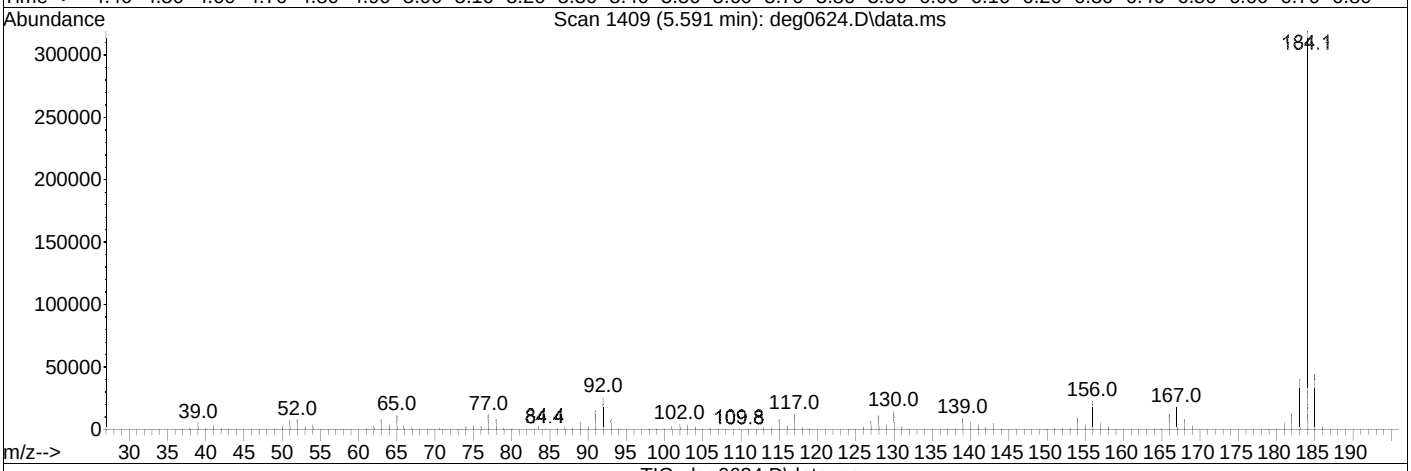
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	55.3	29027	PASS
68	69	0.00	2	1.6	367	PASS
69	69	100	100	100.0	22509	PASS
70	69	0.00	2	0.0	0	PASS
127	198	10	80	52.1	27347	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	52448	PASS
199	198	5	9	6.7	3539	PASS
275	198	10	60	23.0	12051	PASS
365	198	1	100	2.7	1432	PASS
441	442	0.01	24	17.8	5846	PASS
442	198	50	100	62.6	32827	PASS
443	442	15	24	20.4	6709	PASS

Quantitation Report (Qedit)

Data Path : I:\8270SIM\SV128\240624\
Data File : deg0624.D
Acq On : 24 Jun 2024 11:04 am
Operator : SV128:jjw
Sample : WG1938533-4,32,, dftpp sv128 lot# 10744
Misc : WG1938533,,ical20676
ALS Vial : 48 Sample Multiplier: 1

Quant Time: Jun 24 11:18:48 2024
Quant Method : I:\8270SIM\SV128\240624\dftppsv128.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Sat Jun 22 16:12:16 2024
Response via : Continuing Cal File: C:\ENVDEMO\BNADATA\DLWB002.D





TIC: deg0624.D\data.ms

(3) benzidine (T)

5.591min (-0.045) 20.14

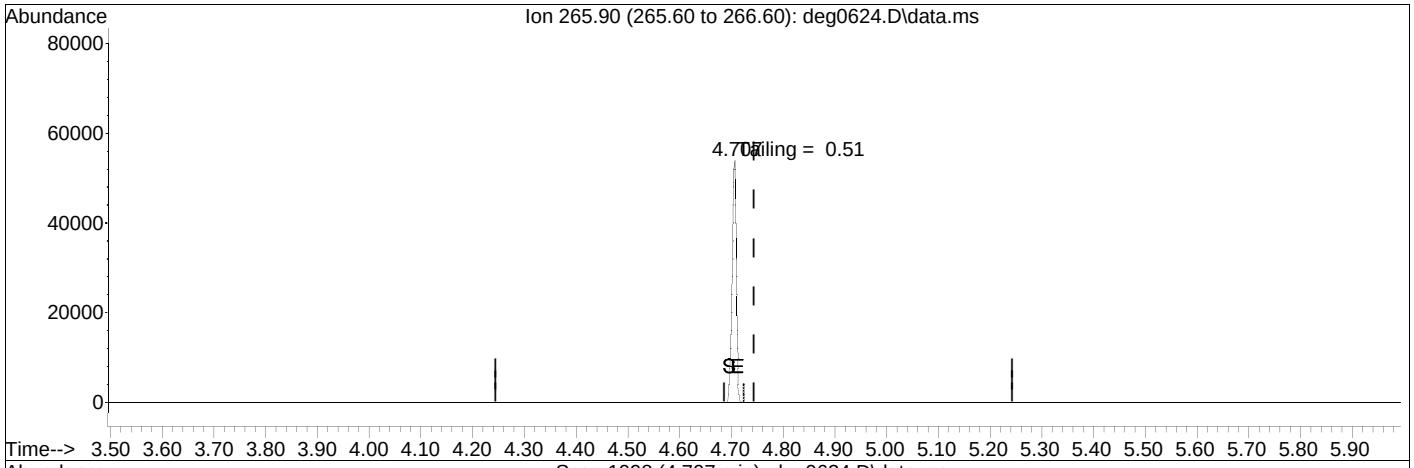
response 205028

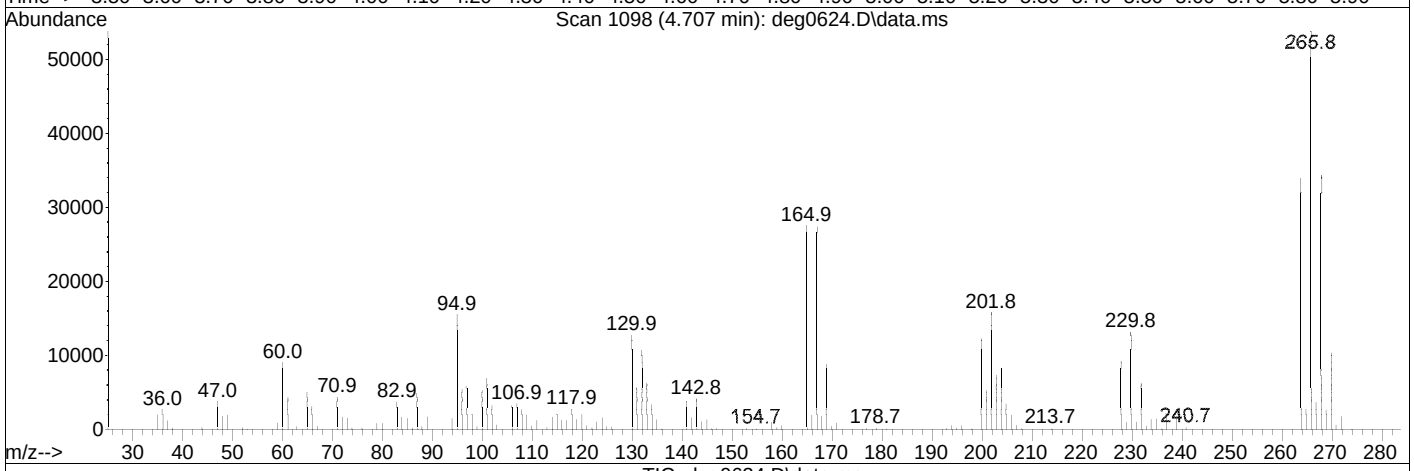
Ion	Exp%	Act%
184.10	100.00	100.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\8270SIM\SV128\240624\
Data File : deg0624.D
Acq On : 24 Jun 2024 11:04 am
Operator : SV128:jjw
Sample : WG1938533-5,32,, dftpp sv128 lot# 10744
Misc : WG1938533,,ical20676
ALS Vial : 48 Sample Multiplier: 1

Quant Time: Jun 24 11:18:48 2024
Quant Method : I:\8270SIM\SV128\240624\dftppsv128.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Sat Jun 22 16:12:16 2024
Response via : Continuing Cal File: C:\ENVDEMO\BNADATA\DLWB002.D





TIC: deg0624.D\data.ms

(1) pentachlorophenol (T)

4.707min (-0.037) 14.15

response 29710

Ion	Exp%	Act%
265.90	100.00	100.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Alpha Geoscience	**Lab Number**	: L2434679		
Project Name	: RANCO MINE	**Project Number**	: 12123		
Instrument ID	: SV128	**Calibration Date**	: 06/24/24 11:21		
Lab File ID	: CCV0624	**Init. Calib. Date(s)**	: 12/11/23	12/13/23	
Sample No	: WG1938533-3	**Init. Calib. Times**	: 13:27	07:14	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
1,4-Dichlorobenzene-d4	1	1	.05	0	20	136	0
2-Fluorophenol	1.007	1.015	.05	-0.8	20	130	0
Phenol-d6	1.177	1.28	.05	-8.8	20	140	0
Bis(2-chloroethyl)ether	1.005	1.081	.05	-7.6	20	145	0
n-nitrosodi-n-propylamine	0.702	0.77	.05	-9.7	20	141	0
Hexachloroethane	0.478	0.497	.05	-4	20	138	0
Nitrobenzene-d5	0.951	1.197	.05	-25.9*	20	161	0
Naphthalene-d8	1	1	.05	0	20	136	0
Naphthalene	1.026	0.99	.05	3.5	20	128	0
Hexachlorobutadiene	0.235	0.215	.05	8.5	20	125	0
2-Methylnaphthalene	0.655	0.659	.05	-0.6	20	130	0
1-Methylnaphthalene	0.617	0.596	.05	3.4	20	125	0
2-Fluorobiphenyl	0.848	0.825	.05	2.7	20	124	0
2-Chloronaphthalene	0.713	0.69	.05	3.2	20	125	0
2,6-Dinitrotoluene	1000	1136.77	.05	-13.7	20	162	0
Acenaphthylene	1.057	1.004	.05	5	20	120	0
Acenaphthene-d10	1	1	.05	0	20	135	0
Acenaphthene	1.352	1.277	.05	5.5	20	124	0
2,4-Dinitrotoluene	1000	1102.368	.05	-10.2	20	159	0
Fluorene	1.365	1.355	.05	0.7	20	125	0
2,4,6-Tribromophenol	0.2	0.199	.05	0.5	20	126	0
Phenanthrene-d10	1	1	.05	0	20	133	0
4,6-Dinitro-o-cresol	1000	1200.475	.05	-20	20	186	0
Hexachlorobenzene	0.266	0.253	.05	4.9	20	127	0
Pentachlorophenol	1000	1189.799	.05	-19	20	155	0
Phenanthrene	1.082	1.008	.05	6.8	20	123	0
Anthracene	1.045	0.965	.05	7.7	20	120	0
Fluoranthene	1.188	1.151	.05	3.1	20	122	0
Pyrene	1.23	1.227	.05	0.2	20	121	0
4-Terphenyl-d14	0.833	0.777	.05	6.7	20	114	0
Chrysene-d12	1	1	.05	0	20	129	0
Benzo[a]anthracene	1000	889.428	.05	11.1	20	116	0
3,3'-Dichlorobenzidine	1000	829.187	.05	17.1	20	117	0
Chrysene	1.379	1.296	.05	6	20	117	0
Bis(2-ethylhexyl)phthalate	1000	922.991	.05	7.7	20	137	0
Perylene-d12	1	1	.05	0	20	119	0
Benzo[b]fluoranthene	1.239	1.173	.05	5.3	20	111	0
Benzo[k]fluoranthene	1.153	1.129	.05	2.1	20	113	0
Benzo[a]pyrene	1.091	1.051	.05	3.7	20	110	0
Indeno[1,2,3-cd]pyrene	1.091	1.08	.05	1	20	113	0
Dibenzo[a,h]anthracene	1.059	1.06	.05	-0.1	20	108	0
Benzo[g,h,i]perylene	1.134	1.083	.05	4.5	20	105	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Alpha Geoscience		**Lab Number**	: L2434679	
Project Name	: RANCO MINE		**Project Number**	: 12123	
Instrument ID	: SV128		**Calibration Date**	: 06/25/24 10:01	
Lab File ID	: CCV0625		**Init. Calib. Date(s)**	: 12/11/23	12/13/23
Sample No	: WG1939038-3		**Init. Calib. Times**	: 13:27	07:14
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
1,4-Dichlorobenzene-d4	1	1	.05	0	20	130	0
2-Fluorophenol	1.007	1.036	.05	-2.9	20	126	0
Phenol-d6	1.177	1.29	.05	-9.6	20	134	0
Bis(2-chloroethyl)ether	1.005	1.111	.05	-10.5	20	142	0
n-nitrosodi-n-propylamine	0.702	0.81	.05	-15.4	20	141	0
Hexachloroethane	0.478	0.486	.05	-1.7	20	128	0
Nitrobenzene-d5	0.951	1.242	.05	-30.6*	20	159	0
Naphthalene-d8	1	1	.05	0	20	133	0
Naphthalene	1.026	0.994	.05	3.1	20	126	0
Hexachlorobutadiene	0.235	0.216	.05	8.1	20	123	0
2-Methylnaphthalene	0.655	0.674	.05	-2.9	20	130	0
1-Methylnaphthalene	0.617	0.634	.05	-2.8	20	130	0
2-Fluorobiphenyl	0.848	0.871	.05	-2.7	20	128	0
2-Chloronaphthalene	0.713	0.708	.05	0.7	20	125	0
2,6-Dinitrotoluene	1000	1420.312	.05	-42*	20	200	0
Acenaphthylene	1.057	1.107	.05	-4.7	20	130	0
Acenaphthene-d10	1	1	.05	0	20	141	0
Acenaphthene	1.352	1.262	.05	6.7	20	128	0
2,4-Dinitrotoluene	1000	1200.999	.05	-20.1*	20	182	0
Fluorene	1.365	1.359	.05	0.4	20	132	0
2,4,6-Tribromophenol	0.2	0.195	.05	2.5	20	130	0
Phenanthrene-d10	1	1	.05	0	20	148	0
4,6-Dinitro-o-cresol	1000	1205.831	.05	-20.6*	20	209	0
Hexachlorobenzene	0.266	0.223	.05	16.2	20	125	0
Pentachlorophenol	1000	1181.618	.05	-18.2	20	172	0
Phenanthrene	1.082	0.996	.05	7.9	20	136	0
Anthracene	1.045	0.957	.05	8.4	20	132	0
Fluoranthene	1.188	1.21	.05	-1.9	20	143	0
Pyrene	1.23	1.267	.05	-3	20	140	0
4-Terphenyl-d14	0.833	0.812	.05	2.5	20	133	0
Chrysene-d12	1	1	.05	0	20	155	0
Benzo[a]anthracene	1000	880.982	.05	11.9	20	139	0
3,3'-Dichlorobenzidine	1000	799.709	.05	20	20	135	0
Chrysene	1.379	1.283	.05	7	20	140	0
Bis(2-ethylhexyl)phthalate	1000	947.426	.05	5.3	20	170	0
Perylene-d12	1	1	.05	0	20	145	0
Benzo[b]fluoranthene	1.239	1.161	.05	6.3	20	134	0
Benzo[k]fluoranthene	1.153	1.121	.05	2.8	20	137	0
Benzo[a]pyrene	1.091	1.045	.05	4.2	20	133	0
Indeno[1,2,3-cd]pyrene	1.091	1.057	.05	3.1	20	135	0
Dibenzo[a,h]anthracene	1.059	1.039	.05	1.9	20	129	0
Benzo[g,h,i]perylene	1.134	1.054	.05	7.1	20	125	0

*** Value outside of QC limits.**

Evaluate Continuing Calibration Report

Data Path : I:\8270SIM\SV128\240625\
Data File : ccv0625.D
Acq On : 25 Jun 2024 10:01 am
Operator : SV128:rp
Sample : WG1939038-3,32,,ICV 10475 (0617)
Misc : WG1939038,,ical20676
ALS Vial : 49 Sample Multiplier: 1

Quant Time: Jun 25 10:21:17 2024
Quant Method : I:\8270SIM\SV128\240625\SIM-LVI_231211_sv128.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Jun 25 10:22:01 2024
Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	i	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	130	0.00
2	s	2-Fluorophenol	1.007	1.036	-2.9	126	0.00
3	s	Phenol-d6	1.177	1.290	-9.6	134	0.00
4	T	Bis(2-chloroethyl)ether	1.005	1.111	-10.5	142	0.00
5	T	n-nitrosodi-n-propylamine	0.702	0.810	-15.4	141	0.00
6	t	Hexachloroethane	0.478	0.486	-1.7	128	0.00
7	s	Nitrobenzene-d5	0.951	1.242	-30.6#	159	0.00
8	i	Naphthalene-d8	1.000	1.000	0.0	133	0.00
9	t	Naphthalene	1.026	0.994	3.1	126	0.00
10	t	Hexachlorobutadiene	0.235	0.216	8.1	123	0.00
11	t	2-Methylnaphthalene	0.655	0.674	-2.9	130	0.00
12	t	1-Methylnaphthalene	0.617	0.634	-2.8	130	0.00
13	s	2-Fluorobiphenyl	0.848	0.871	-2.7	128	0.00
14	t	2-Chloronaphthalene	0.713	0.708	0.7	125	0.00
15	t	2,6-Dinitrotoluene	*1000.000	1420.312	-42.0#	200	0.00
16	t	Acenaphthylene	1.057	1.107	-4.7	130	0.00
17	i	Acenaphthene-d10	1.000	1.000	0.0	141	0.00
18	t	Acenaphthene	1.352	1.262	6.7	128	0.00
19	t	2,4-Dinitrotoluene	*1000.000	1200.999	-20.1#	182	0.00
20	t	Fluorene	1.365	1.359	0.4	132	0.00
21	s	2,4,6-Tribromophenol	0.200	0.195	2.5	130	0.00
22	i	Phenanthrene-d10	1.000	1.000	0.0	148	0.00
23	T	4,6-Dinitro-o-cresol	*1000.000	1205.831	-20.6#	209	0.00
24	t	Hexachlorobenzene	0.266	0.223	16.2	125	0.00
25	t	Pentachlorophenol	*1000.000	1181.618	-18.2	172	0.00
26	t	Phenanthrene	1.082	0.996	7.9	136	0.00
27	t	Anthracene	1.045	0.957	8.4	132	0.00
28	t	Fluoranthene	1.188	1.210	-1.9	143	0.00
29	t	Pyrene	1.230	1.267	-3.0	140	0.00
30	s	4-Terphenyl-d14	0.833	0.812	2.5	133	0.00
31	i	Chrysene-d12	1.000	1.000	0.0	155	0.00
32	t	Benzo[a]anthracene	*1000.000	880.982	11.9	139	0.00
33	t	3,3'-Dichlorobenzidine	*1000.000	799.709	20.0#	135	0.00
34	t	Chrysene	1.379	1.283	7.0	140	0.00
35	T	Bis(2-ethylhexyl)phthalate	*1000.000	947.426	5.3	170	0.00

Evaluate Continuing Calibration Report

Data Path : I:\8270SIM\SV128\240625\
Data File : ccv0625.D
Acq On : 25 Jun 2024 10:01 am
Operator : SV128:rp
Sample : WG1939038-3,32,,ICV 10475 (0617)
Misc : WG1939038,,ical20676
ALS Vial : 49 Sample Multiplier: 1

Quant Time: Jun 25 10:21:17 2024
Quant Method : I:\8270SIM\SV128\240625\SIM-LVI_231211_sv128.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Jun 25 10:22:01 2024
Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
36	i	Perylene-d12	1.000	1.000	0.0	145	0.00
37	t	Benzo[b]fluoranthene	1.239	1.161	6.3	134	0.00
38	t	Benzo[k]fluoranthene	1.153	1.121	2.8	137	0.00
39	t	Benzo[a]pyrene	1.091	1.045	4.2	133	0.00
40	t	Indeno[1,2,3-cd]pyrene	1.091	1.057	3.1	135	0.00
41	t	Dibenzo[a,h]anthracene	1.059	1.039	1.9	129	0.00
42	t	Benzo[g,h,i]perylene	1.134	1.054	7.1	125	0.00

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV128\240625\
Data File : ccv0625.D
Acq On : 25 Jun 2024 10:01 am
Operator : SV128:rp
Sample : WG1939038-3,32,,ICV 10475 (0617)
Misc : WG1939038,,ical20676
ALS Vial : 49 Sample Multiplier: 1

Quant Time: Jun 25 10:21:17 2024
Quant Method : I:\8270SIM\SV128\240625\SIM-LVI_231211_sv128.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Jun 25 10:22:01 2024
Response via : Initial Calibration

Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.306	152	3868	4000.000	ng/ml	0.00
8) Naphthalene-d8	2.979	136	14097	4000.000	ng/ml	0.00
17) Acenaphthene-d10	3.965	164	8577	4000.000	ng/ml	0.00
22) Phenanthrene-d10	4.811	188	20055	4000.000	ng/ml	0.00
31) Chrysene-d12	6.389	240	19835	4000.000	ng/ml	0.00
36) Perylene-d12	7.699	264	22257	4000.000	ng/ml	0.00
System Monitoring Compounds						
2) 2-Fluorophenol	1.690	112	1002	1028.720	ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 20.57%			
3) Phenol-d6	2.106	99	1247M6	1095.466	ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 21.91%			
7) Nitrobenzene-d5	2.588	82	1201	1305.530	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 52.22%			
13) 2-Fluorobiphenyl	3.579	172	3069	1026.571	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 41.06%			
21) 2,4,6-Tribromophenol	4.414	330	419	977.588	ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 19.55%			
30) 4-Terphenyl-d14	5.733	244	4072	974.587	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 38.98%			
Target Compounds						Qvalue
4) Bis(2-chloroethyl)ether	2.162	93	1074	1104.697	ng/ml	94
5) n-nitrosodi-n-propylamine	2.505	70	783	1153.690	ng/ml	96
6) Hexachloroethane	2.569	117	470	1017.431	ng/ml	93
9) Naphthalene	2.988	128	3503	969.000	ng/ml#	100
10) Hexachlorobutadiene	3.064	225	760	917.766	ng/ml	95
11) 2-Methylnaphthalene	3.374	142	2374	1027.986	ng/ml	97
12) 1-Methylnaphthalene	3.427	142	2233	1026.767	ng/ml	95
14) 2-Chloronaphthalene	3.645	162	2496	992.797	ng/ml	98
15) 2,6-Dinitrotoluene	3.840	165	642	1420.312	ng/ml	95
16) Acenaphthylene	3.882	152	3901	1047.447	ng/ml	98
18) Acenaphthene	3.983	153	2705	932.958	ng/ml	90
19) 2,4-Dinitrotoluene	4.071	165	770	1200.999	ng/ml	94
20) Fluorene	4.276	166	2915	996.181	ng/ml	98
23) 4,6-Dinitro-o-cresol	4.304	198	479M6	1205.831	ng/ml	
24) Hexachlorobenzene	4.598	284	1117	837.024	ng/ml	89
25) Pentachlorophenol	4.708	266	666	1181.618	ng/ml	89
26) Phenanthrene	4.826	178	4993	920.692	ng/ml	100

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV128\240625\
Data File : ccv0625.D
Acq On : 25 Jun 2024 10:01 am
Operator : SV128:rp
Sample : WG1939038-3,32,,ICV 10475 (0617)
Misc : WG1939038,,ical20676
ALS Vial : 49 Sample Multiplier: 1

Quant Time: Jun 25 10:21:17 2024
Quant Method : I:\8270SIM\SV128\240625\SIM-LVI_231211_sv128.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Jun 25 10:22:01 2024
Response via : Initial Calibration

Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
27) Anthracene	4.856	178	4796	915.248	ng/ml	96
28) Fluoranthene	5.512	202	6068M6	1018.445	ng/ml	
29) Pyrene	5.643	202	6351	1030.260	ng/ml	99
32) Benzo[a]anthracene	6.384	228	6311	880.982	ng/ml	99
33) 3,3'-Dichlorobenzidine	6.367	252	2225	799.709	ng/ml	99
34) Chrysene	6.408	228	6364	930.662	ng/ml	100
35) Bis(2-ethylhexyl)phtha...	6.411	149	3296	947.426	ng/ml	95
37) Benzo[b]fluoranthene	7.296	252	6461	937.387	ng/ml	100
38) Benzo[k]fluoranthene	7.322	252	6236	972.221	ng/ml	100
39) Benzo[a]pyrene	7.633	252	5813	957.740	ng/ml	100
40) Indeno[1,2,3-cd]pyrene	9.017	276	5882	969.181	ng/ml	99
41) Dibenzo[a,h]anthracene	9.058	278	5781M6	980.747	ng/ml	
42) Benzo[g,h,i]perylene	9.380	276	5865M1	929.733	ng/ml	

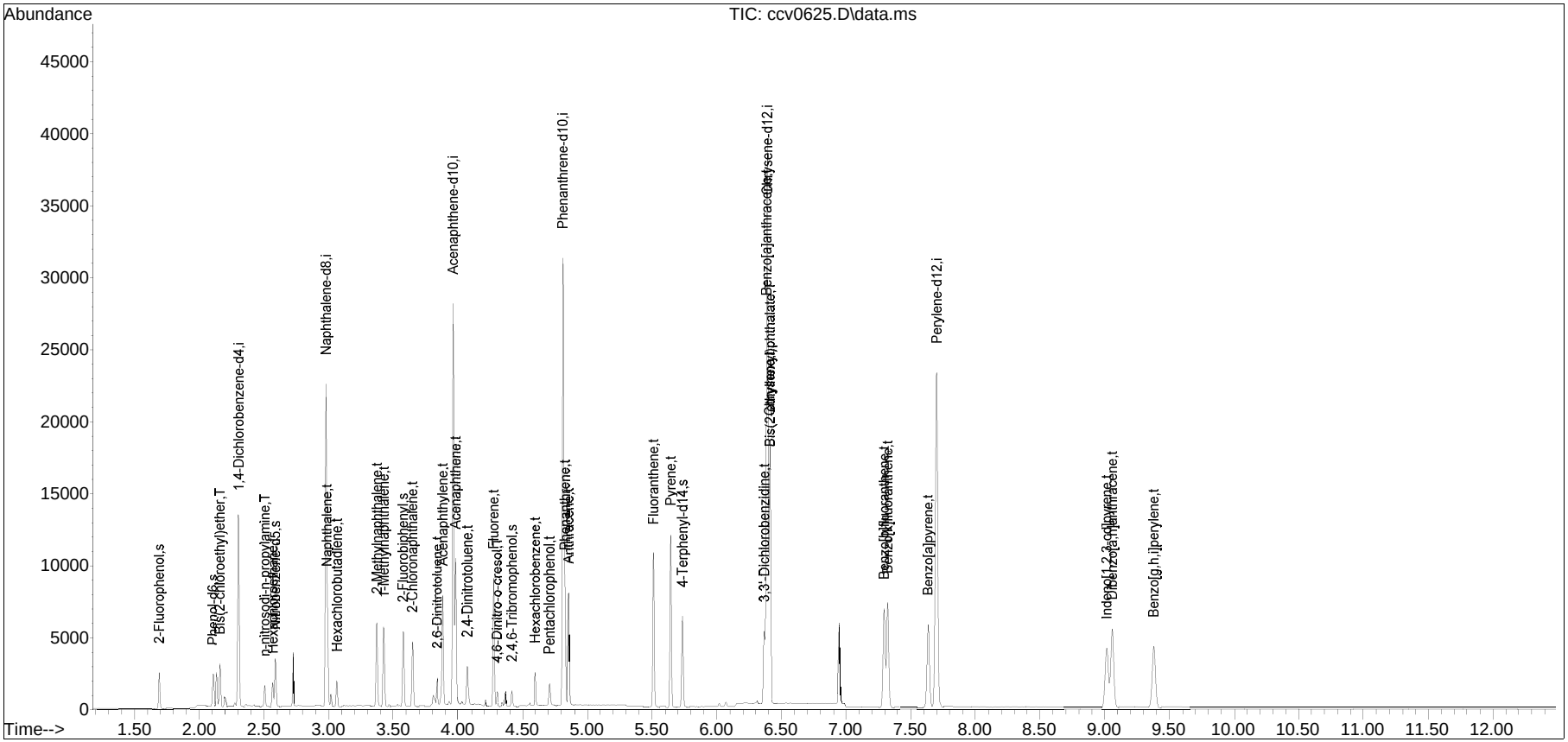
(#) = qualifier out of range (m) = manual integration (+) = signals summed

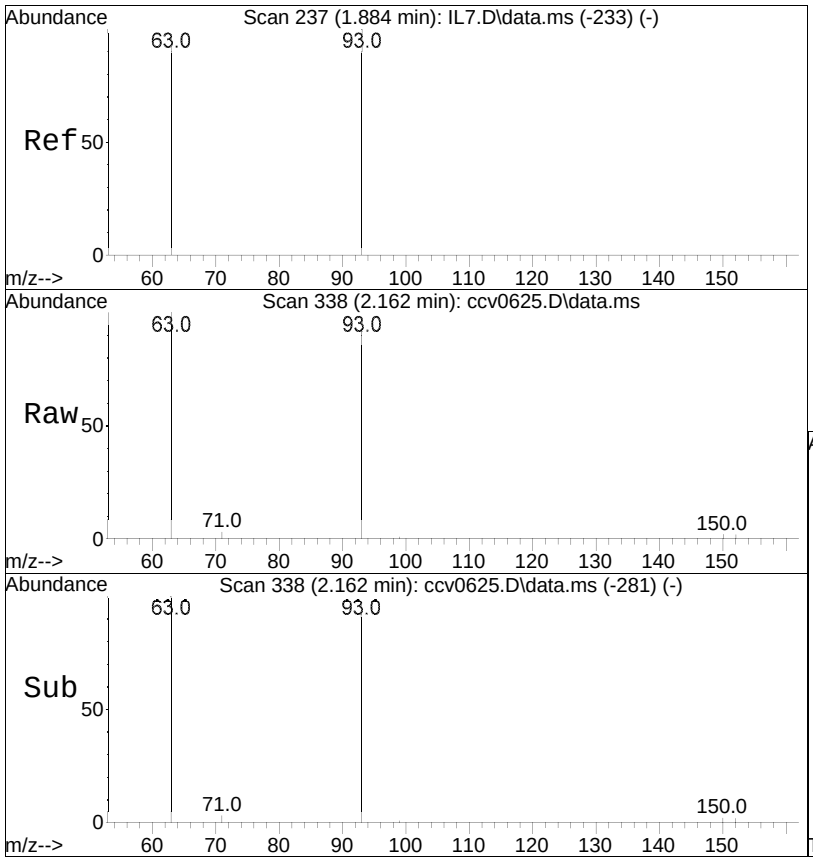
Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV128\240625\
Data File : ccv0625.D
Acq On : 25 Jun 2024 10:01 am
Operator : SV128:rp
Sample : WG1939038-3,32,,ICV 10475 (0617)
Misc : WG1939038,,ical20676
ALS Vial : 49 Sample Multiplier: 1

Quant Time: Jun 25 10:21:17 2024
Quant Method : I:\8270SIM\SV128\240625\SIM-LVI_231211_sv128.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Jun 25 10:22:01 2024
Response via : Initial Calibration

Sub List : Default - All compounds listed

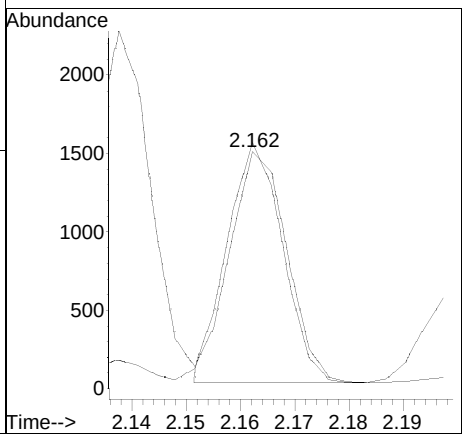


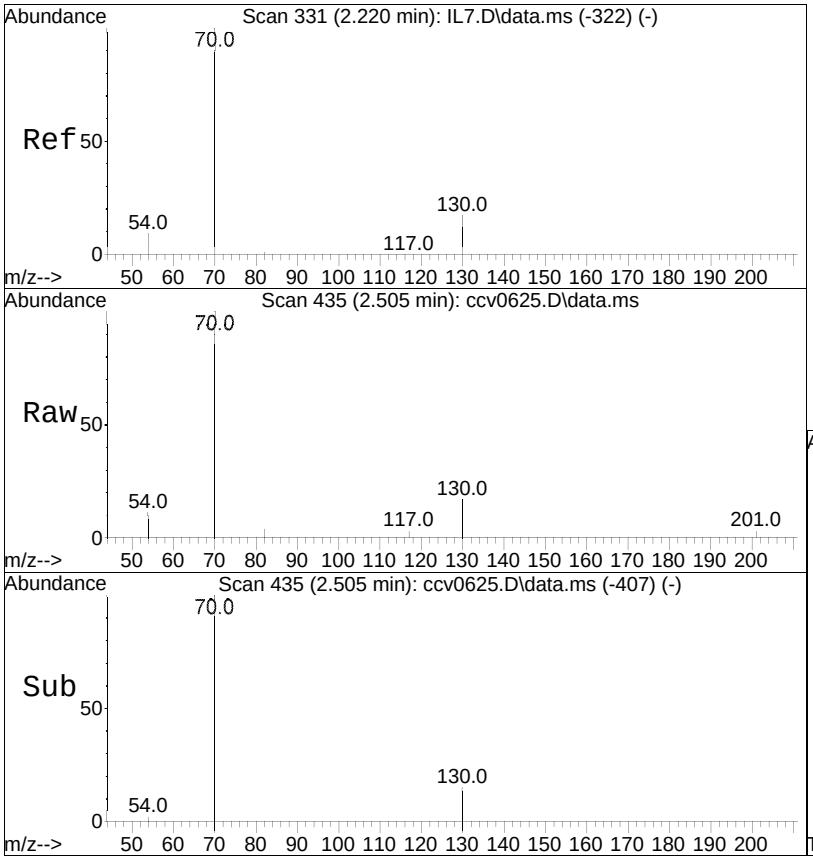


#4
Bis(2-chloroethyl)ether
Concen: 1104.70 ng/ml
RT: 2.162 min Scan# 338
Delta R.T. 0.000 min
Lab File: ccv0625.D
Acq: 25 Jun 2024 10:01 am

Tgt Ion: 93 Resp: 1074

Ion	Ratio	Lower	Upper
93	100		
63	102.3	77.3	115.9

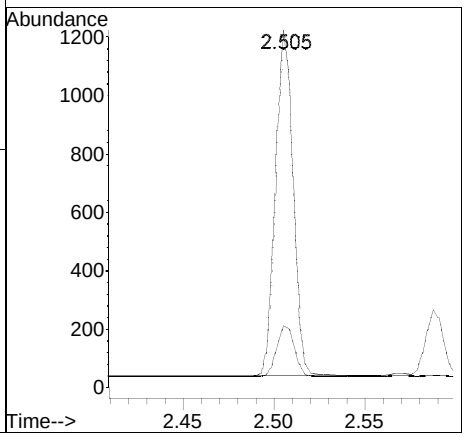


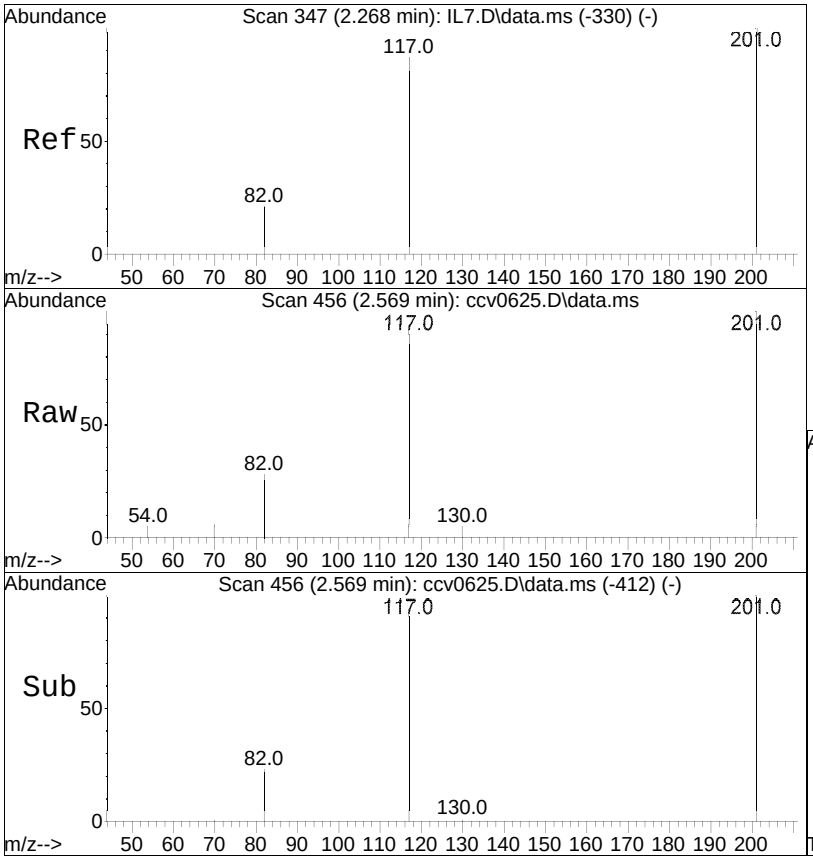


#5
n-nitrosodi-n-propylamine
Concen: 1153.69 ng/ml
RT: 2.505 min Scan# 435
Delta R.T. 0.000 min
Lab File: ccv0625.D
Acq: 25 Jun 2024 10:01 am

Tgt Ion: 70 Resp: 783

Ion	Ratio	Lower	Upper
70	100		
130	15.1	13.6	20.4

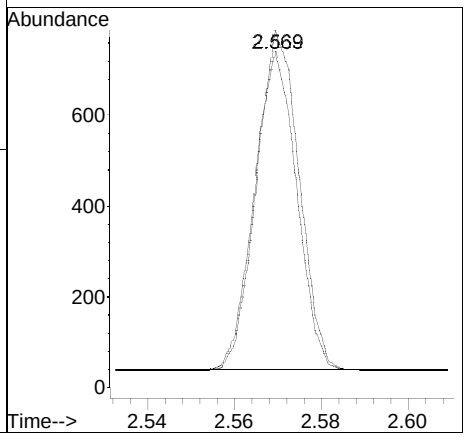


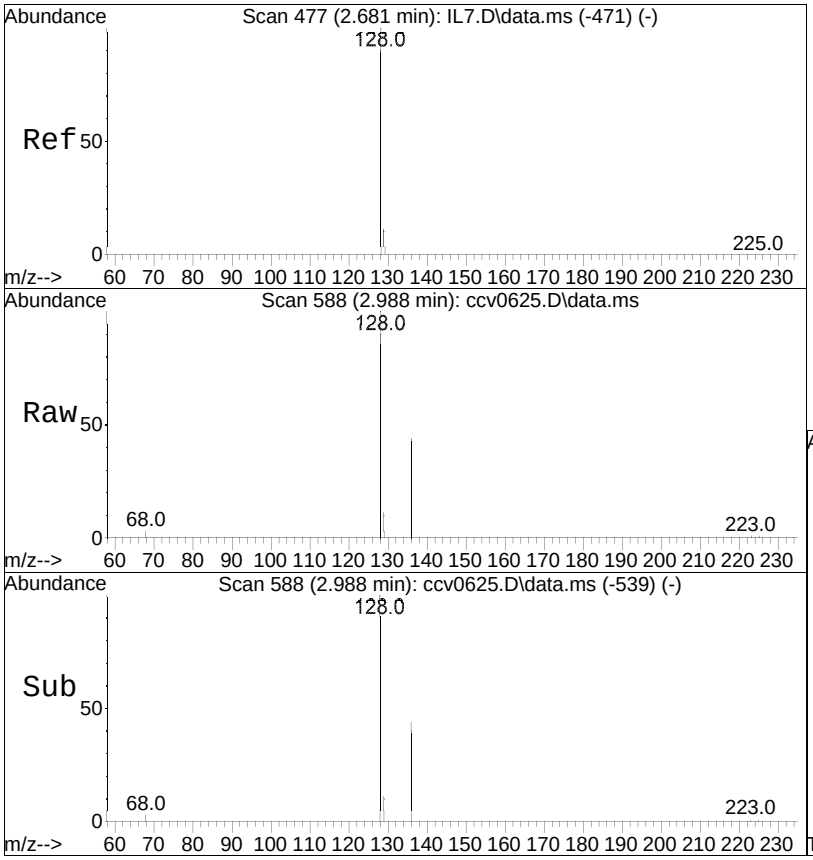


#6
Hexachloroethane
Concen: 1017.43 ng/ml
RT: 2.569 min Scan# 456
Delta R.T. 0.000 min
Lab File: ccv0625.D
Acq: 25 Jun 2024 10:01 am

Tgt Ion:117 Resp: 470

Ion	Ratio	Lower	Upper
117	100		
201	107.7	91.8	137.6

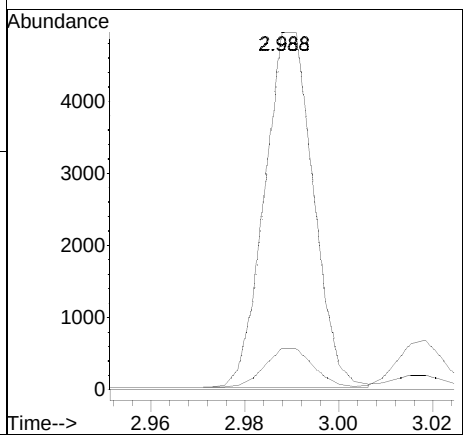


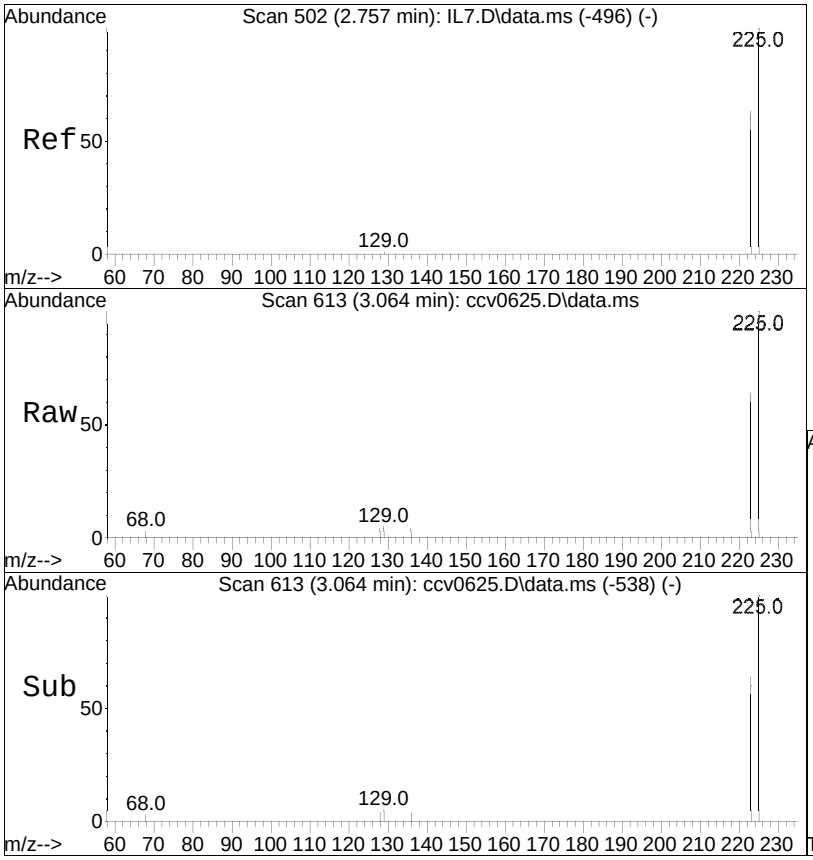


#9
Naphthalene
Concen: 969.00 ng/ml
RT: 2.988 min Scan# 588
Delta R.T. 0.000 min
Lab File: ccv0625.D
Acq: 25 Jun 2024 10:01 am

Tgt Ion:128 Resp: 3503

Ion	Ratio	Lower	Upper
128	100		
129	11.0	8.8	13.2
127	0.0	0.0	0.0

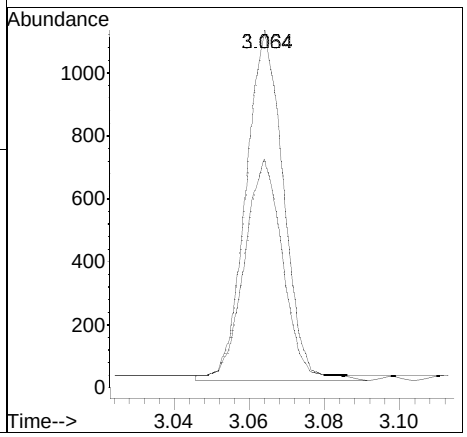


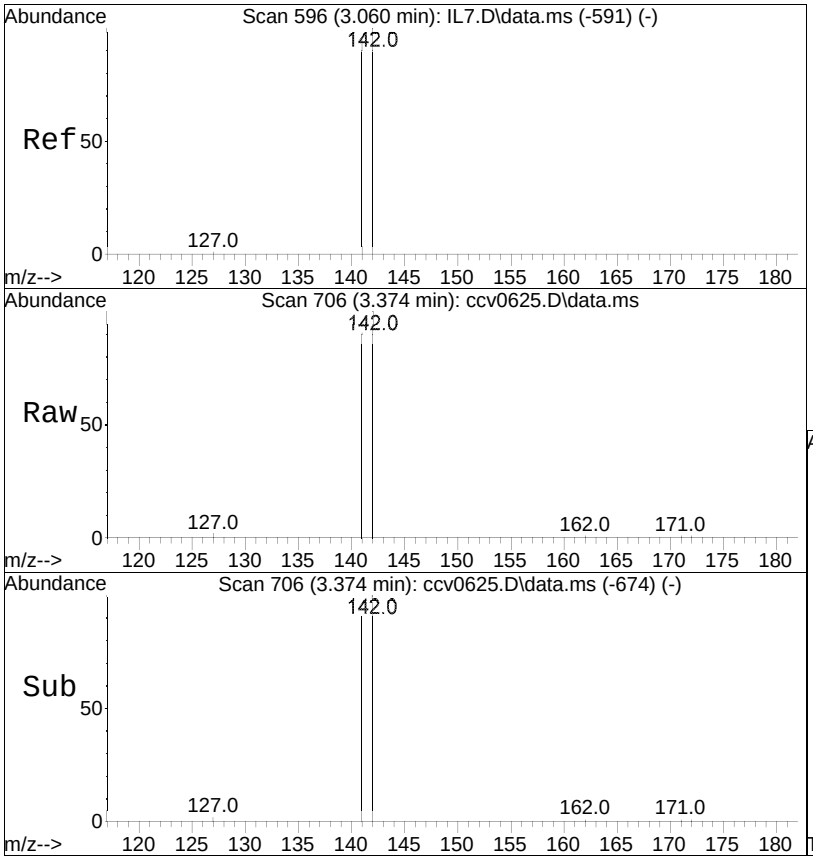


#10
Hexachlorobutadiene
Concen: 917.77 ng/ml
RT: 3.064 min Scan# 613
Delta R.T. 0.000 min
Lab File: ccv0625.D
Acq: 25 Jun 2024 10:01 am

Tgt Ion:225 Resp: 760

Ion	Ratio	Lower	Upper
225	100		
223	66.4	49.9	74.9

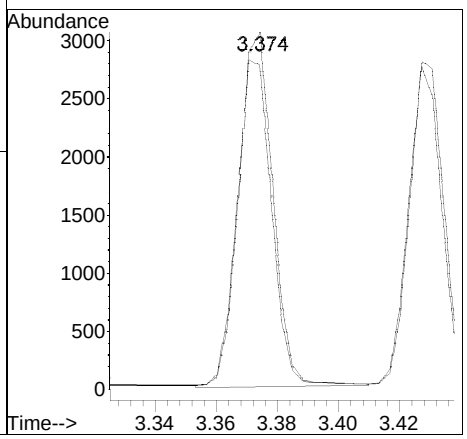


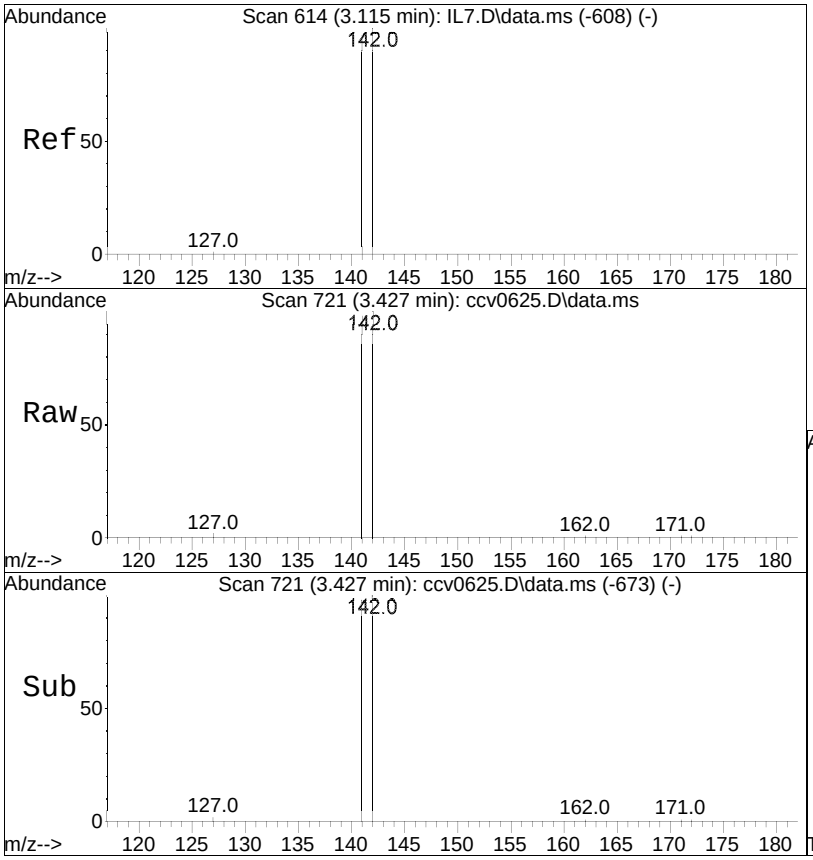


#11
2-Methylnaphthalene
Concen: 1027.99 ng/ml
RT: 3.374 min Scan# 706
Delta R.T. 0.000 min
Lab File: ccv0625.D
Acq: 25 Jun 2024 10:01 am

Tgt Ion:142 Resp: 2374

Ion	Ratio	Lower	Upper
142	100		
141	92.1	75.9	113.9

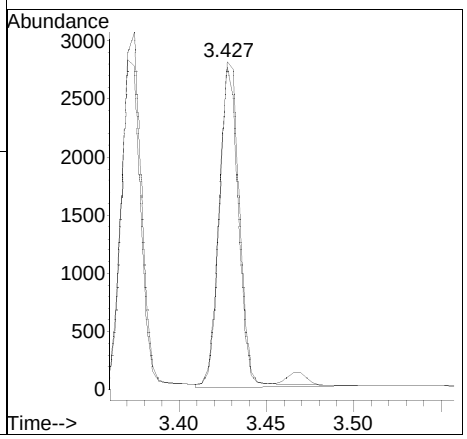


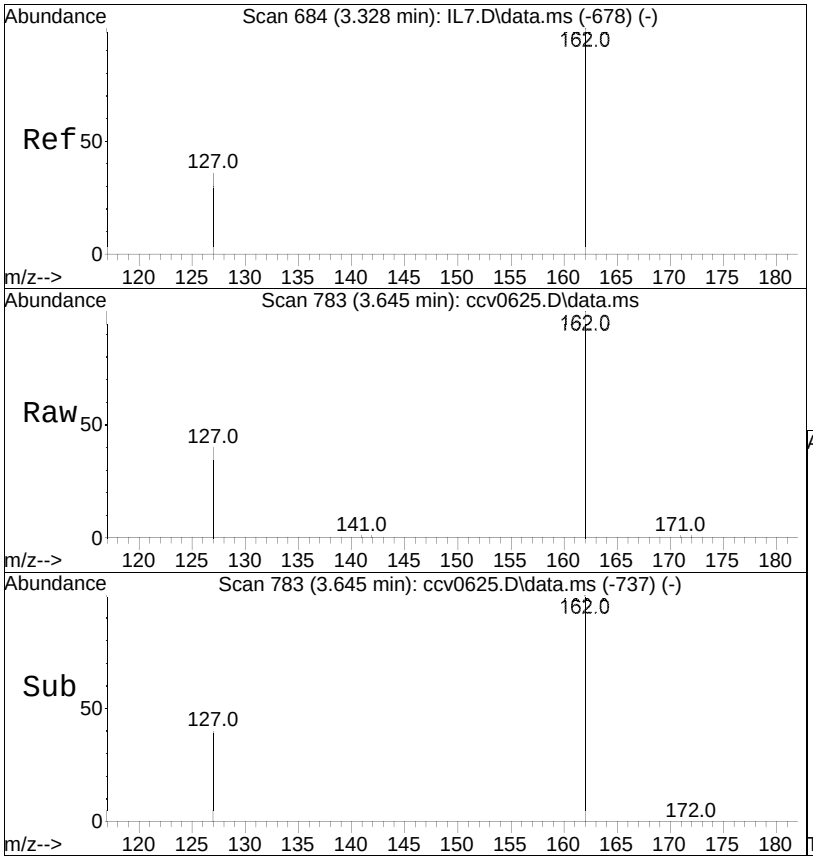


#12
1-Methylnaphthalene
Concen: 1026.77 ng/ml
RT: 3.427 min Scan# 721
Delta R.T. 0.000 min
Lab File: ccv0625.D
Acq: 25 Jun 2024 10:01 am

Tgt Ion:142 Resp: 2233

Ion	Ratio	Lower	Upper
142	100		
141	92.6	77.9	116.9

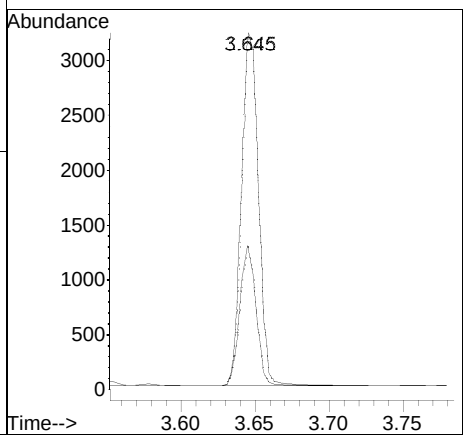


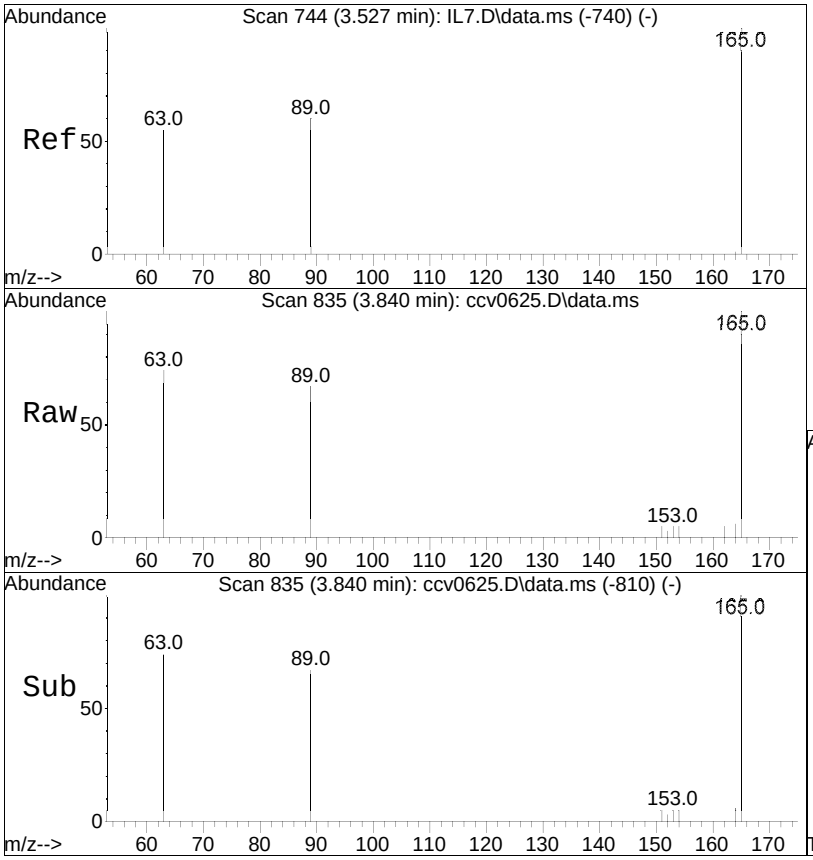


#14
2-Chloronaphthalene
Concen: 992.80 ng/ml
RT: 3.645 min Scan# 783
Delta R.T. 0.000 min
Lab File: ccv0625.D
Acq: 25 Jun 2024 10:01 am

Tgt Ion:162 Resp: 2496

Ion	Ratio	Lower	Upper
162	100		
127	38.0	29.3	43.9

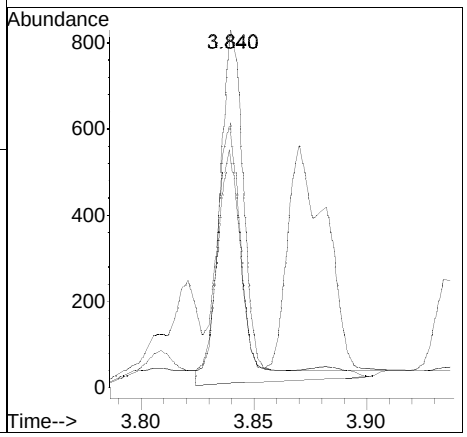


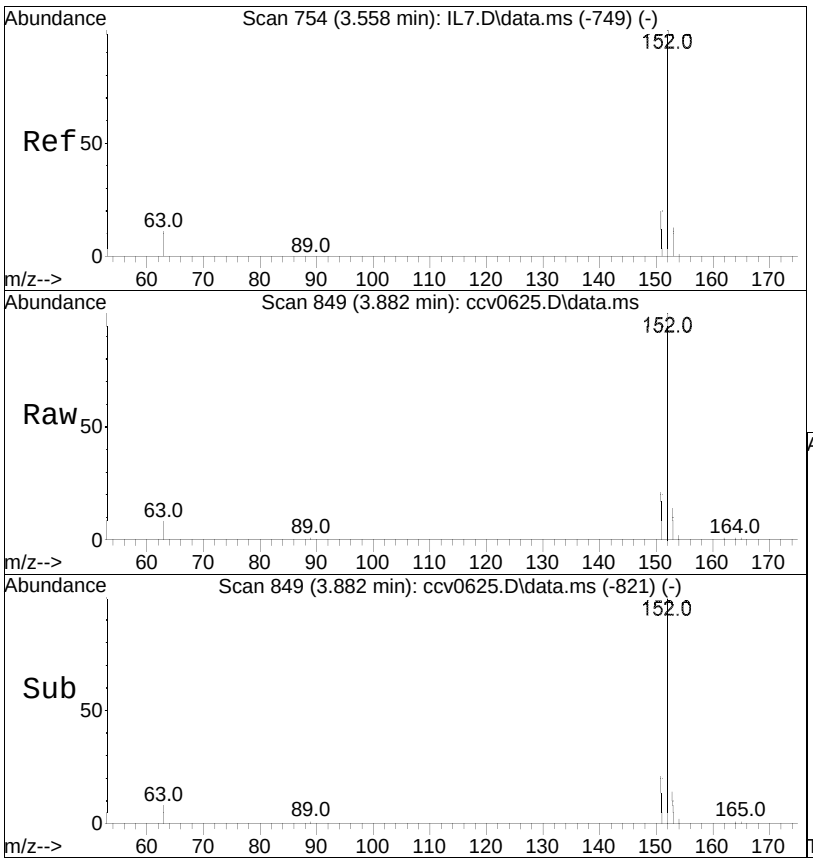


#15
2,6-Dinitrotoluene
Concen: 1420.31 ng/ml
RT: 3.840 min Scan# 835
Delta R.T. 0.000 min
Lab File: ccv0625.D
Acq: 25 Jun 2024 10:01 am

Tgt Ion:165 Resp: 642

Ion	Ratio	Lower	Upper
165	100		
89	57.6	46.6	70.0
63	67.1	47.8	71.8

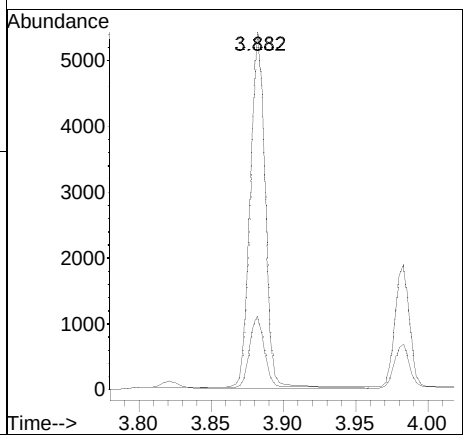


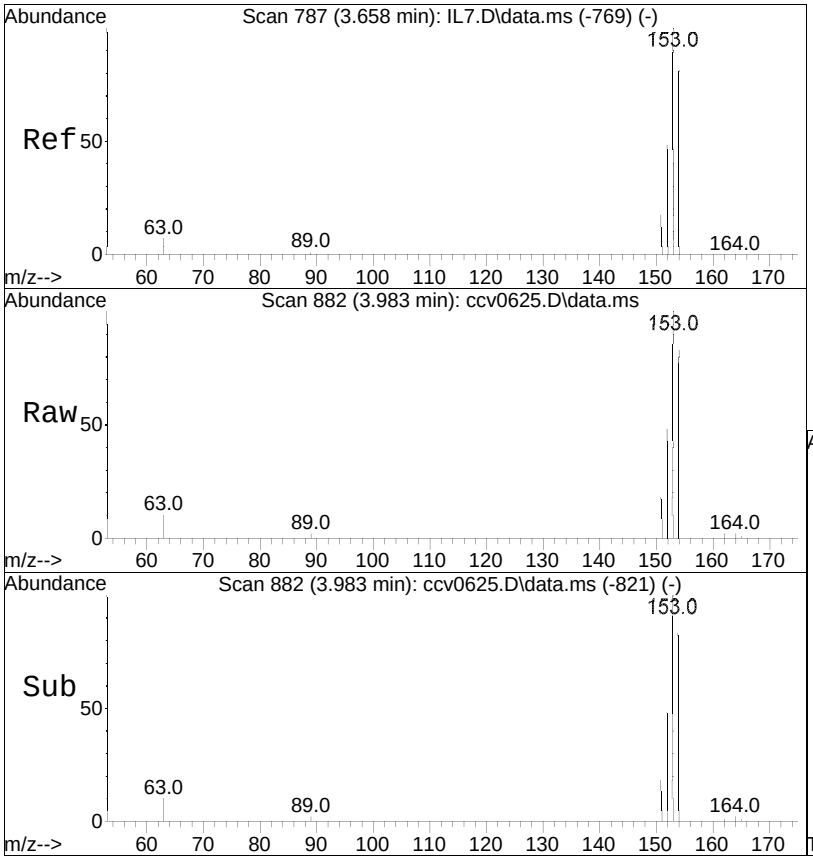


#16
Acenaphthylene
Concen: 1047.45 ng/ml
RT: 3.882 min Scan# 849
Delta R.T. 0.000 min
Lab File: ccv0625.D
Acq: 25 Jun 2024 10:01 am

Tgt Ion:152 Resp: 3901

Ion	Ratio	Lower	Upper
152	100		
151	19.4	16.4	24.6

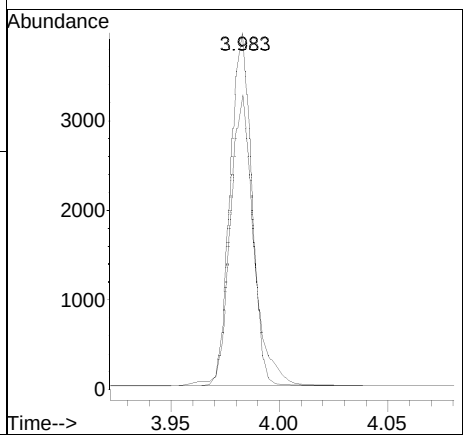


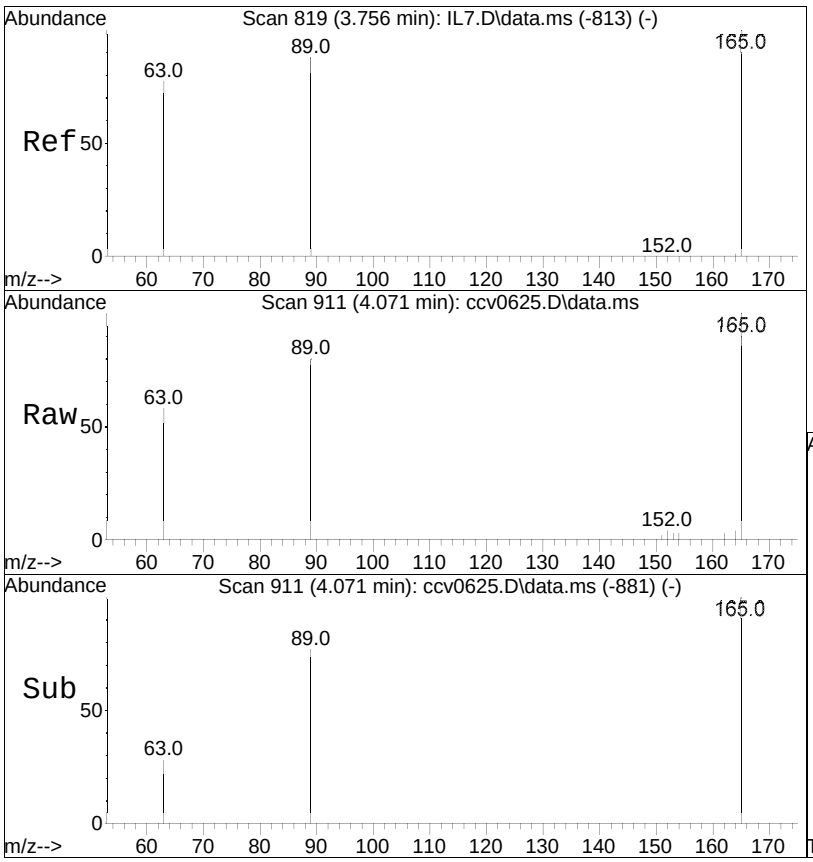


#18
Acenaphthene
Concen: 932.96 ng/ml
RT: 3.983 min Scan# 882
Delta R.T. 0.000 min
Lab File: ccv0625.D
Acq: 25 Jun 2024 10:01 am

Tgt Ion:153 Resp: 2705

Ion	Ratio	Lower	Upper
153	100		
154	90.8	65.8	98.6

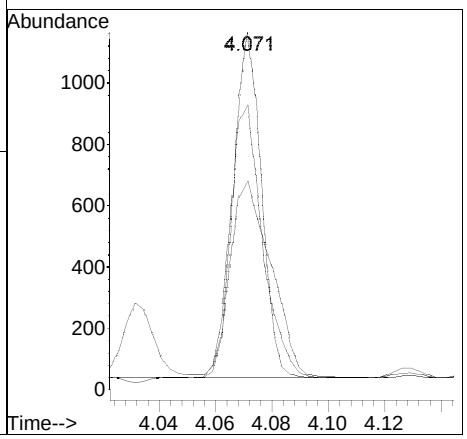


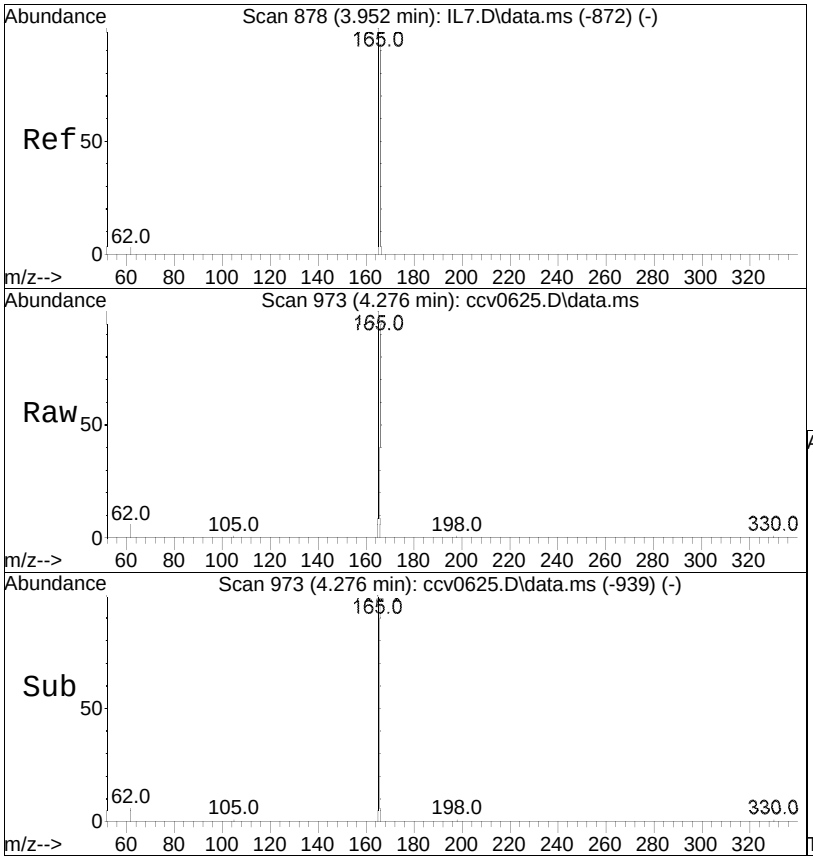


#19
2,4-Dinitrotoluene
Concen: 1201.00 ng/ml
RT: 4.071 min Scan# 911
Delta R.T. 0.000 min
Lab File: ccv0625.D
Acq: 25 Jun 2024 10:01 am

Tgt Ion:165 Resp: 770

Ion	Ratio	Lower	Upper
165	100		
89	95.7	70.6	105.8
63	82.5	62.7	94.1

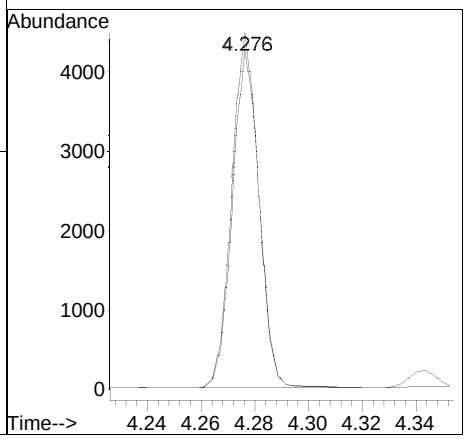


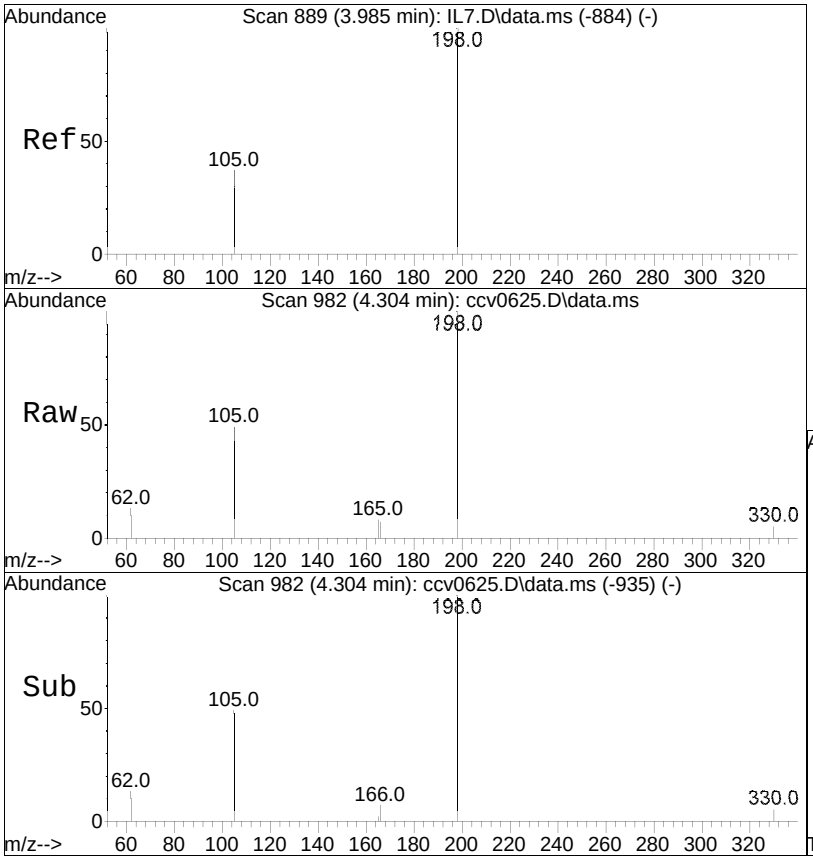


#20
Fluorene
Concen: 996.18 ng/ml
RT: 4.276 min Scan# 973
Delta R.T. 0.000 min
Lab File: ccv0625.D
Acq: 25 Jun 2024 10:01 am

Tgt Ion:166 Resp: 2915

Ion	Ratio	Lower	Upper
166	100		
165	105.4	85.7	128.5

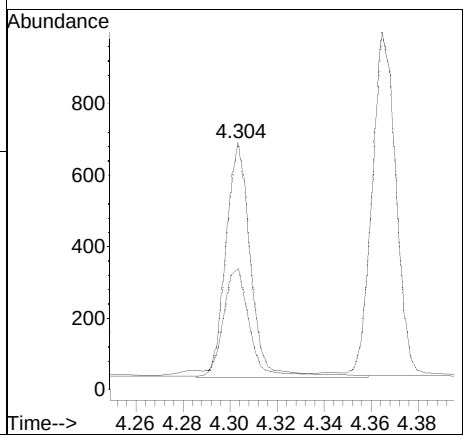


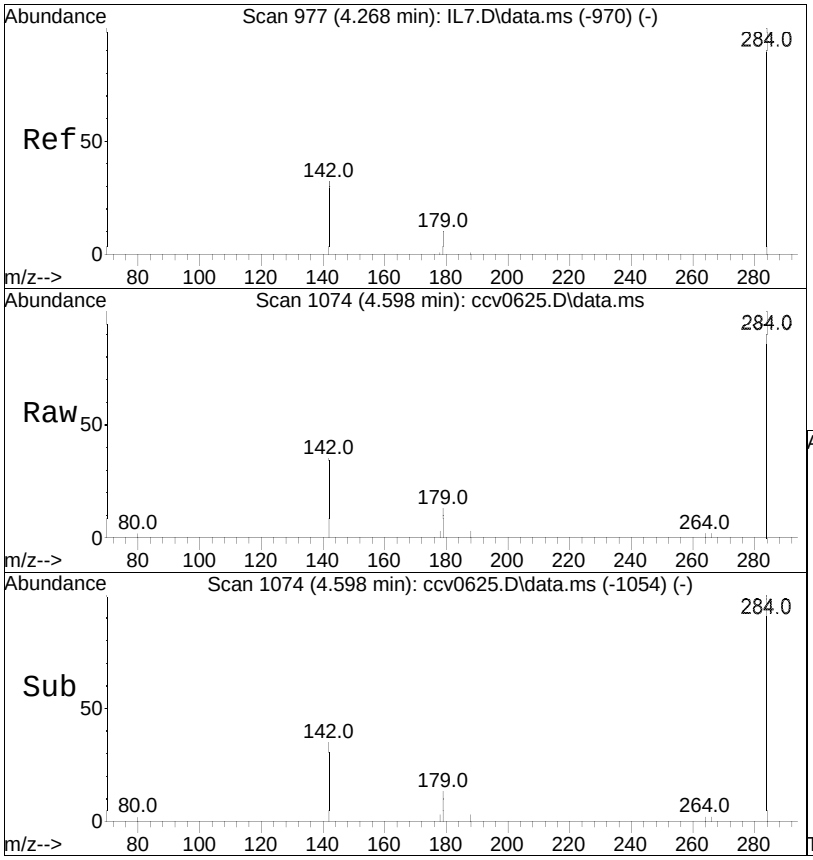


#23
4,6-Dinitro-o-cresol
Concen: 1205.83 ng/ml M6
RT: 4.304 min Scan# 982
Delta R.T. 0.000 min
Lab File: ccv0625.D
Acq: 25 Jun 2024 10:01 am

Tgt Ion:198 Resp: 479

Ion	Ratio	Lower	Upper
198	100		
105	43.8	31.4	47.2

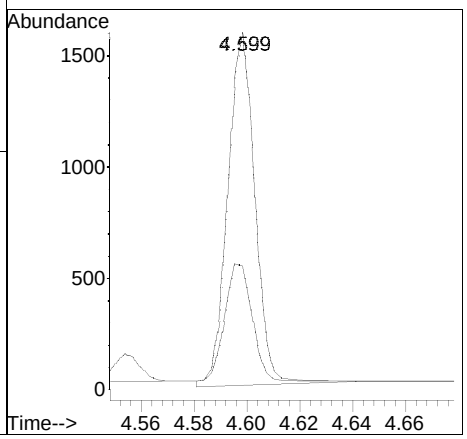


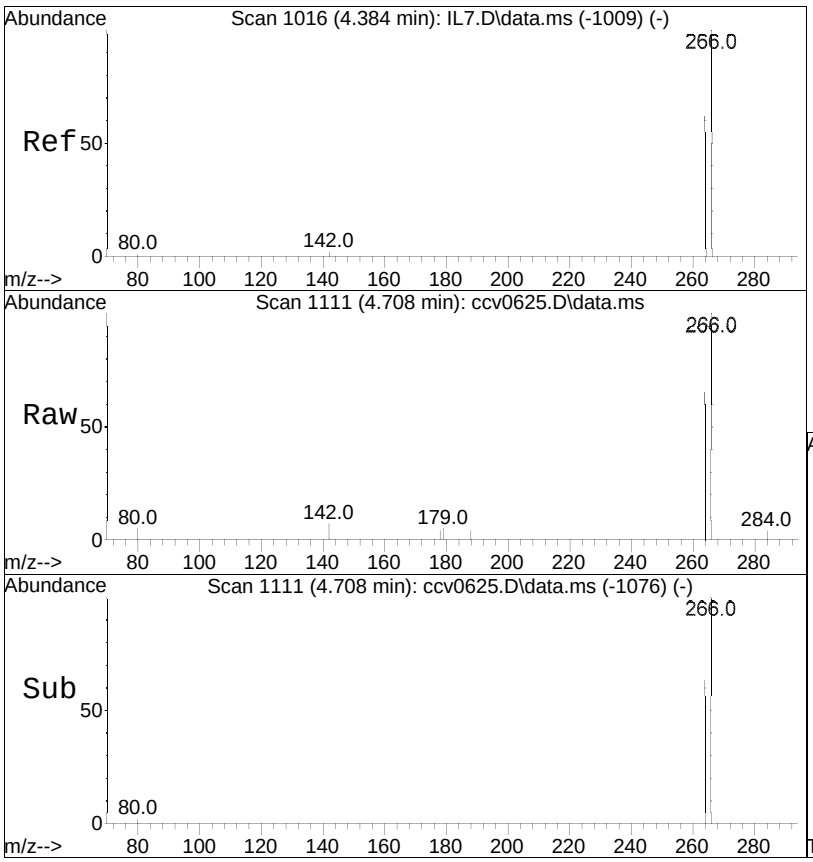


#24
Hexachlorobenzene
Concen: 837.02 ng/ml
RT: 4.598 min Scan# 1074
Delta R.T. 0.000 min
Lab File: ccv0625.D
Acq: 25 Jun 2024 10:01 am

Tgt Ion:284 Resp: 1117

Ion	Ratio	Lower	Upper
284	100		
142	35.8	23.9	35.9

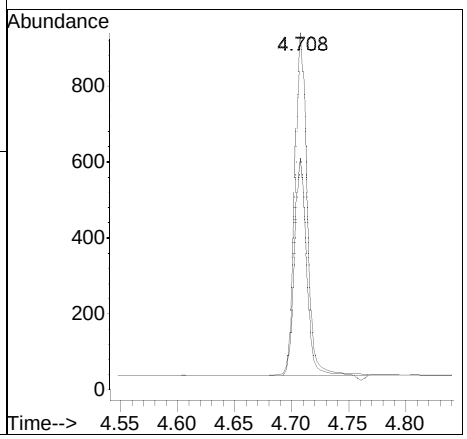


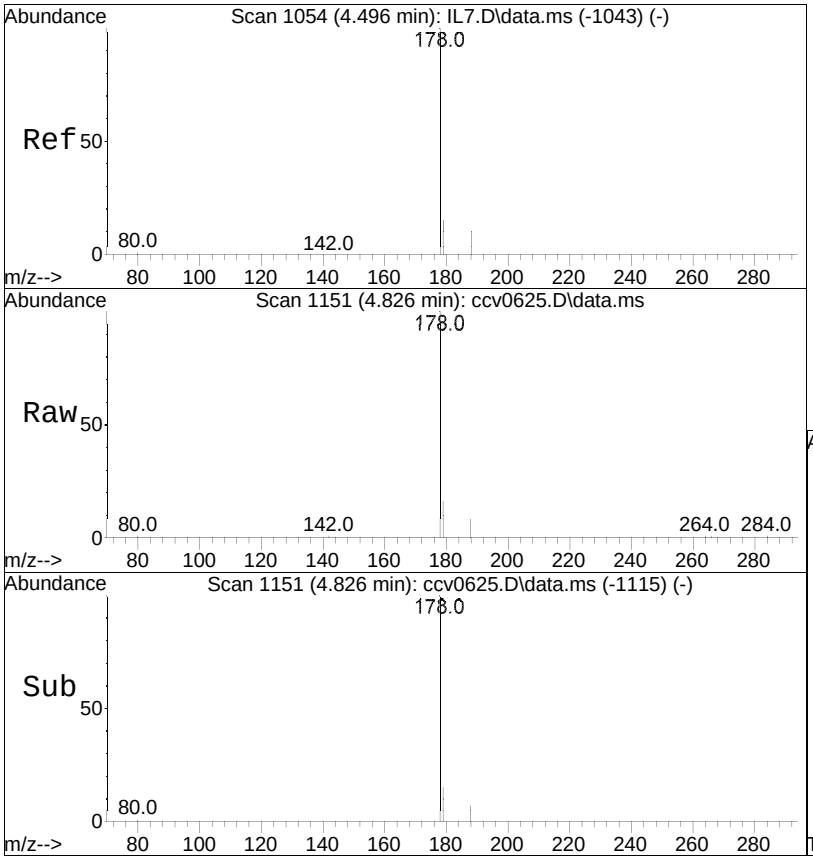


#25
Pentachlorophenol
Concen: 1181.62 ng/ml
RT: 4.708 min Scan# 1111
Delta R.T. 0.000 min
Lab File: ccv0625.D
Acq: 25 Jun 2024 10:01 am

Tgt Ion:266 Resp: 666

Ion	Ratio	Lower	Upper
266	100		
264	70.4	49.7	74.5

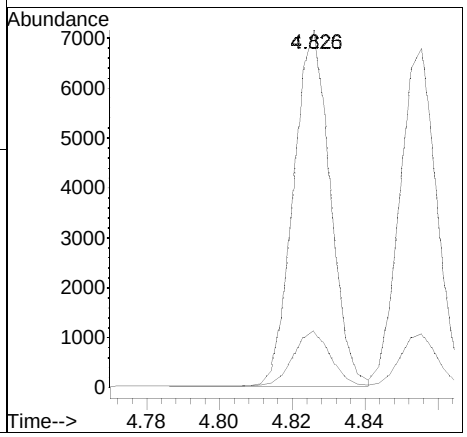


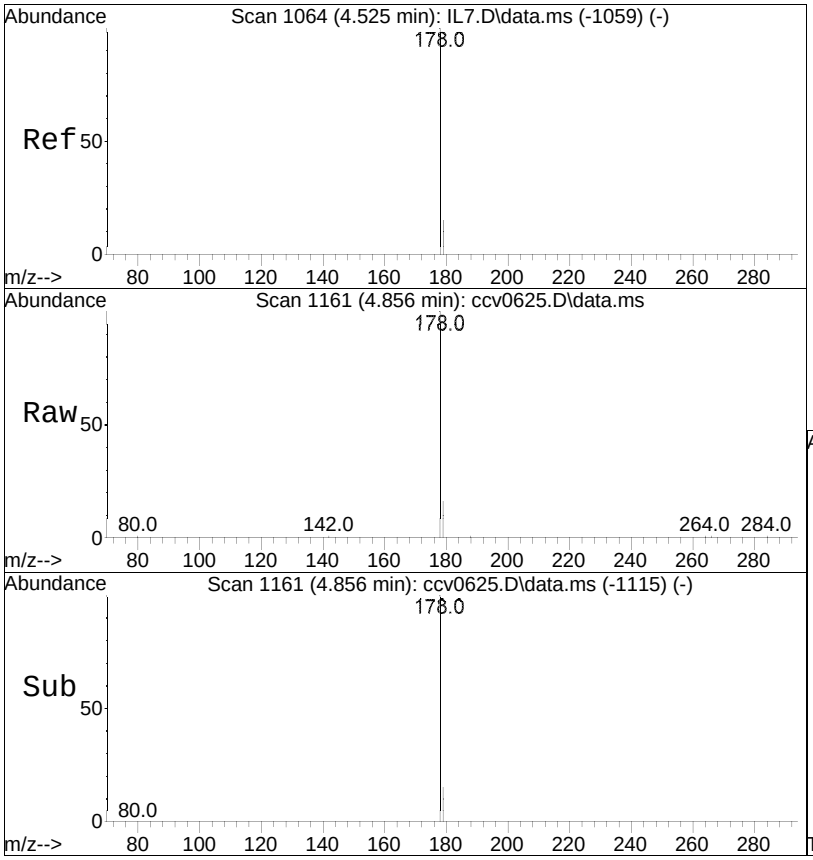


#26
Phenanthrene
Concen: 920.69 ng/ml
RT: 4.826 min Scan# 1151
Delta R.T. 0.000 min
Lab File: ccv0625.D
Acq: 25 Jun 2024 10:01 am

Tgt Ion:178 Resp: 4993

Ion	Ratio	Lower	Upper
178	100		
179	15.4	12.2	18.4

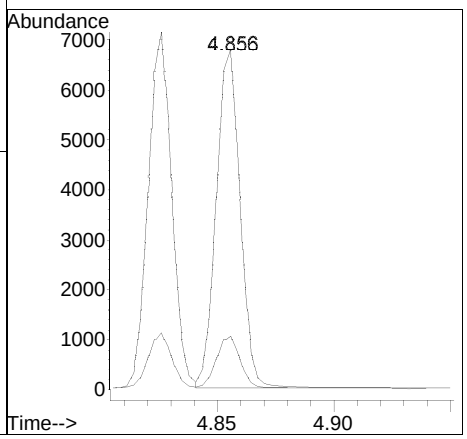


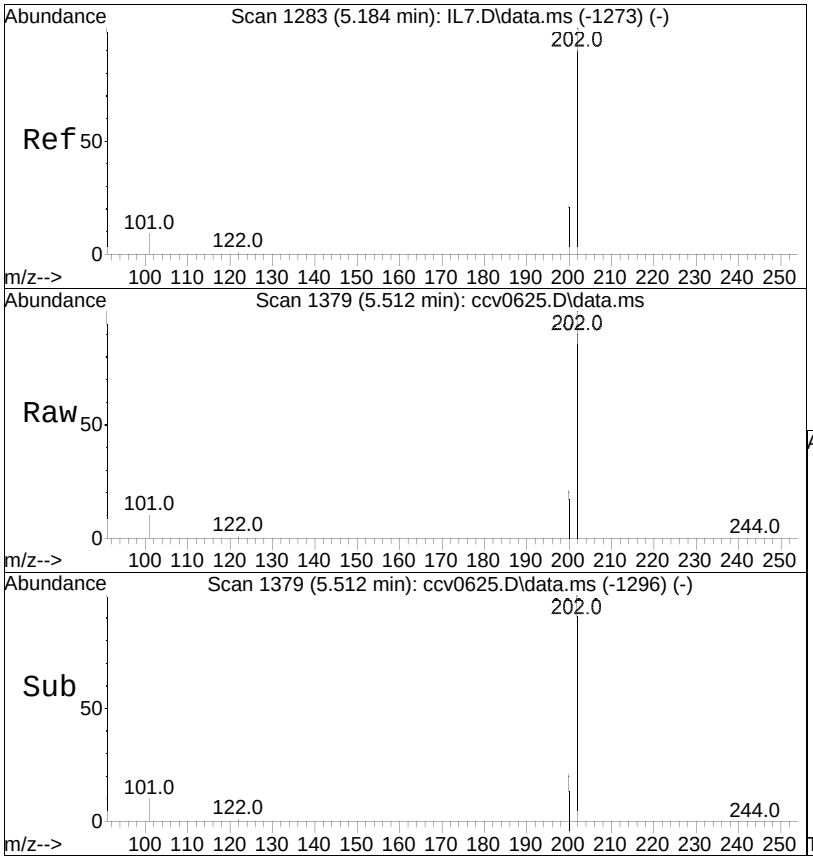


#27
Anthracene
Concen: 915.25 ng/ml
RT: 4.856 min Scan# 1161
Delta R.T. 0.000 min
Lab File: ccv0625.D
Acq: 25 Jun 2024 10:01 am

Tgt Ion:178 Resp: 4796

Ion	Ratio	Lower	Upper
178	100		
179	16.8	12.2	18.2

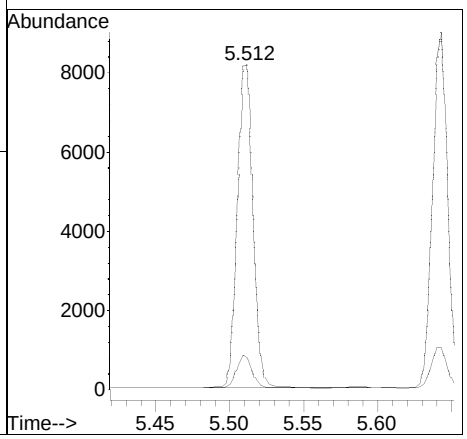


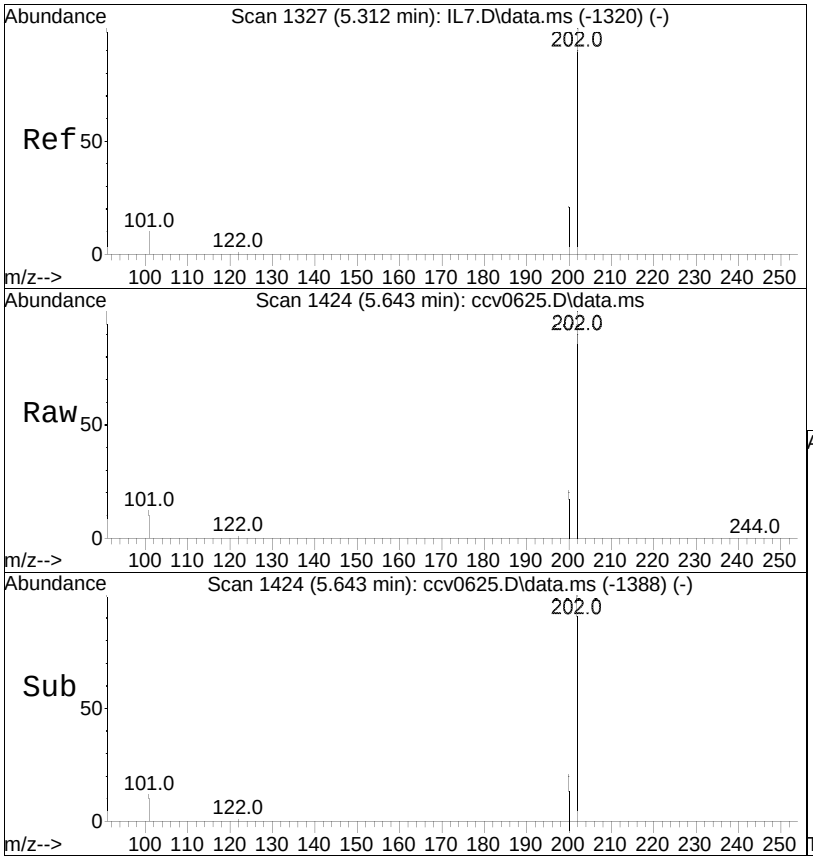


#28
Fluoranthene
Concen: 1018.45 ng/ml M6
RT: 5.512 min Scan# 1379
Delta R.T. 0.000 min
Lab File: ccv0625.D
Acq: 25 Jun 2024 10:01 am

Tgt Ion:202 Resp: 6068

Ion	Ratio	Lower	Upper
202	100		
101	10.9	7.2	10.8#

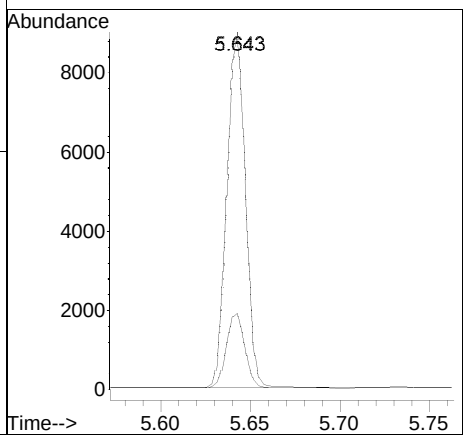


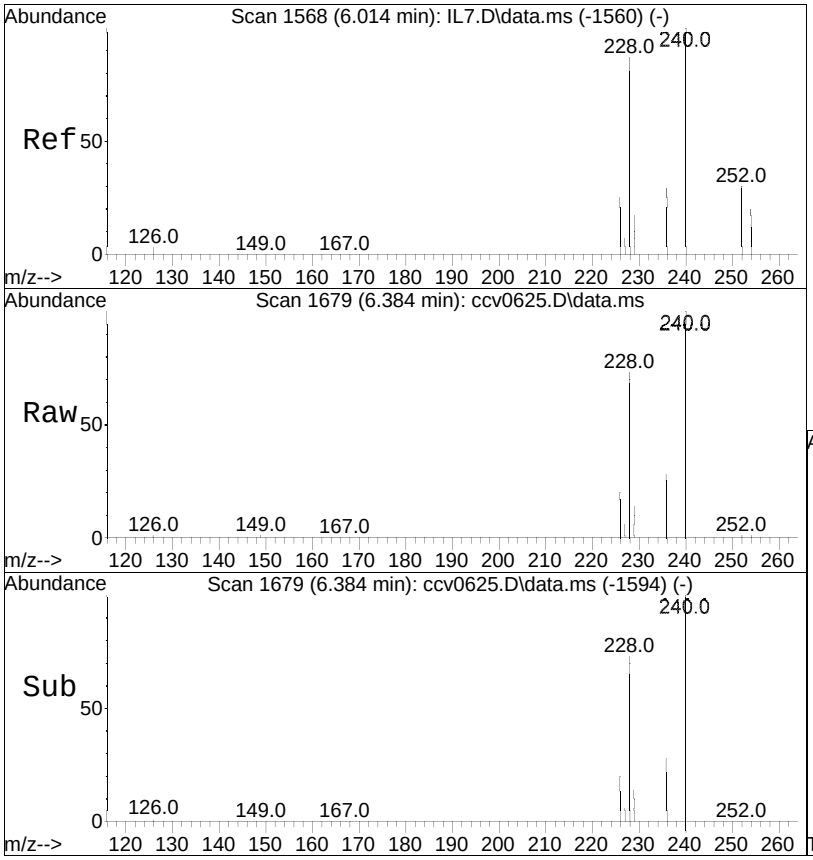


#29
Pyrene
Concen: 1030.26 ng/ml
RT: 5.643 min Scan# 1424
Delta R.T. 0.000 min
Lab File: ccv0625.D
Acq: 25 Jun 2024 10:01 am

Tgt Ion:202 Resp: 6351

Ion	Ratio	Lower	Upper
202	100		
200	22.5	17.7	26.5

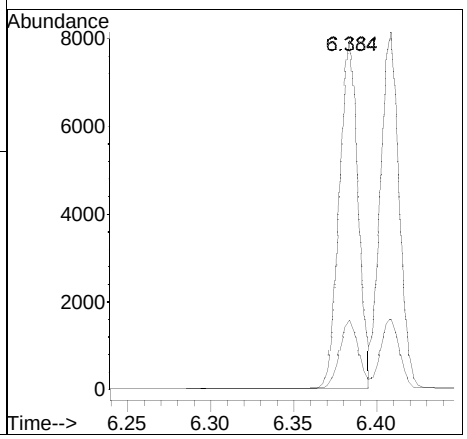


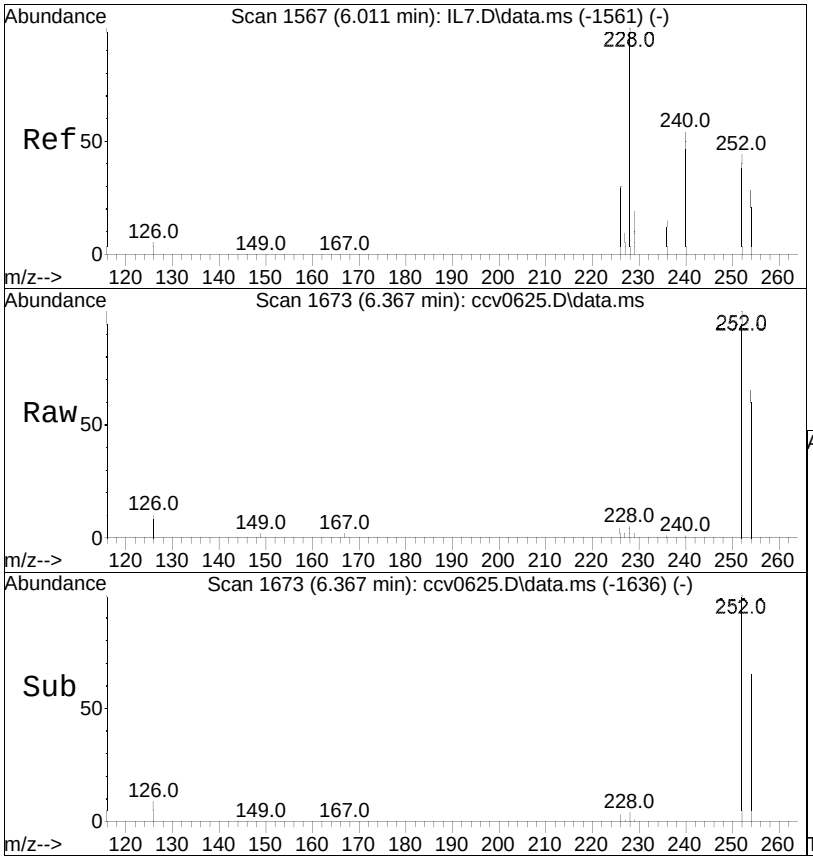


#32
Benzo[a]anthracene
Concen: 880.98 ng/ml
RT: 6.384 min Scan# 1679
Delta R.T. 0.000 min
Lab File: ccv0625.D
Acq: 25 Jun 2024 10:01 am

Tgt Ion:228 Resp: 6311

Ion	Ratio	Lower	Upper
228	100		
229	19.2	15.7	23.5

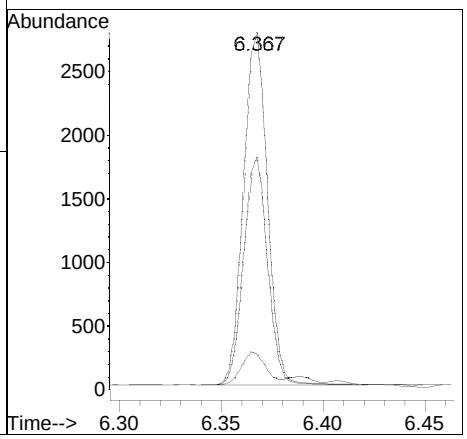


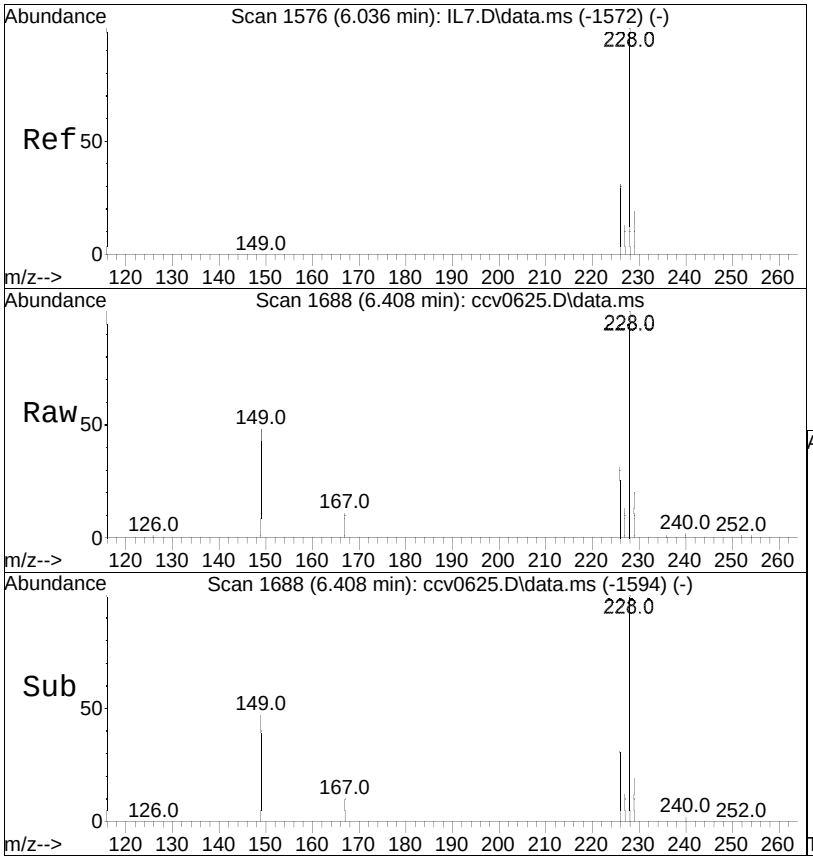


#33
3,3'-Dichlorobenzidine
Concen: 799.71 ng/ml
RT: 6.367 min Scan# 1673
Delta R.T. 0.000 min
Lab File: ccv0625.D
Acq: 25 Jun 2024 10:01 am

Tgt Ion:252 Resp: 2225

Ion	Ratio	Lower	Upper
252	100		
126	9.8	9.4	14.0
254	64.8	51.8	77.6

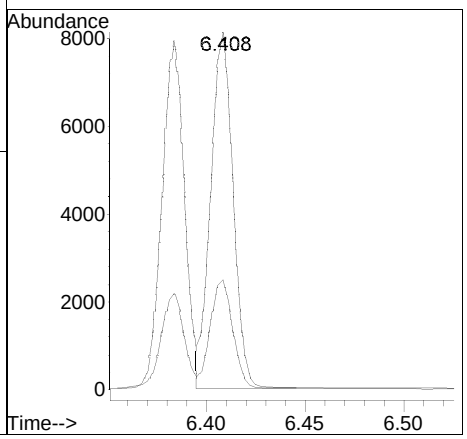


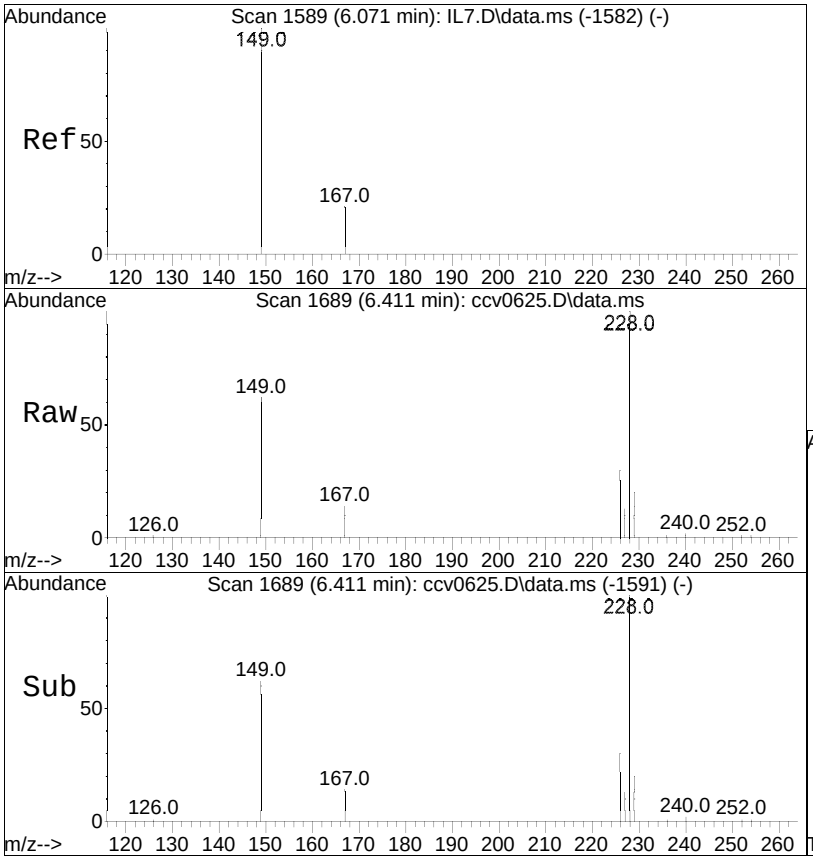


#34
Chrysene
Concen: 930.66 ng/ml
RT: 6.408 min Scan# 1688
Delta R.T. 0.000 min
Lab File: ccv0625.D
Acq: 25 Jun 2024 10:01 am

Tgt Ion:228 Resp: 6364

Ion	Ratio	Lower	Upper
228	100		
226	30.6	24.6	36.8

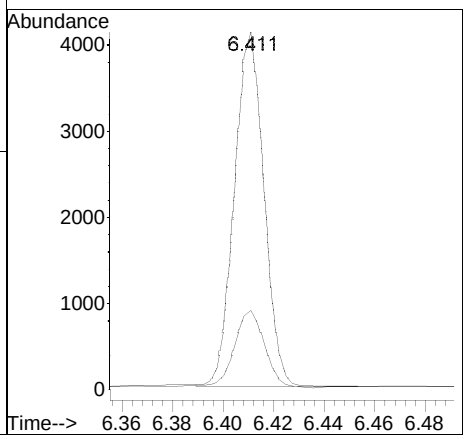


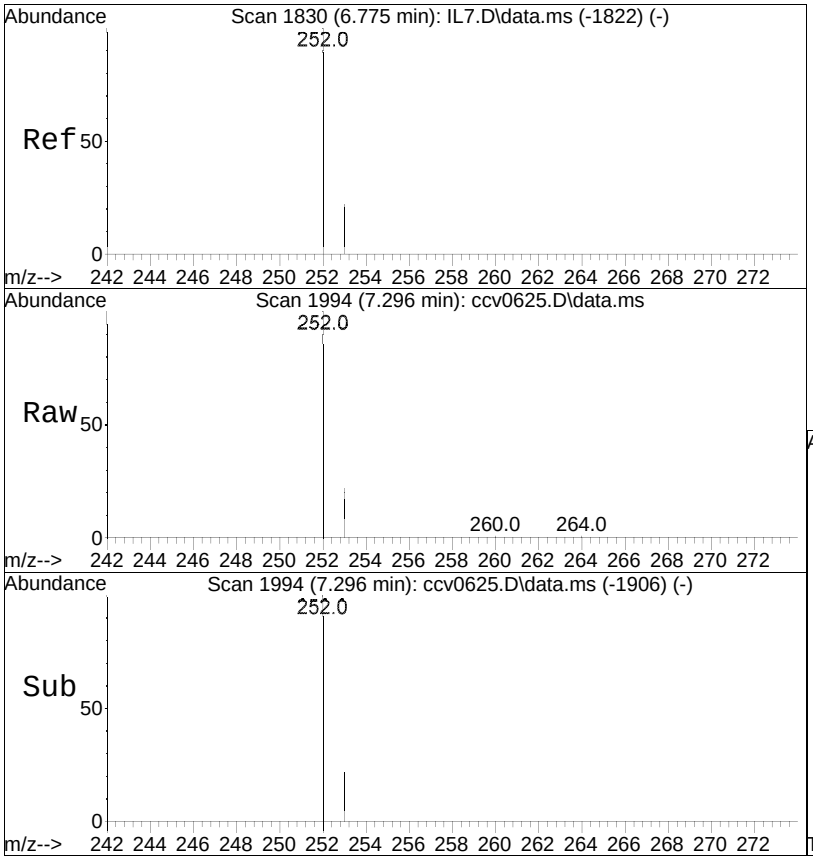


#35
Bis(2-ethylhexyl)phthalate
Concen: 947.43 ng/ml
RT: 6.411 min Scan# 1689
Delta R.T. 0.000 min
Lab File: ccv0625.D
Acq: 25 Jun 2024 10:01 am

Tgt Ion:149 Resp: 3296

Ion	Ratio	Lower	Upper
149	100		
167	23.0	16.4	24.6

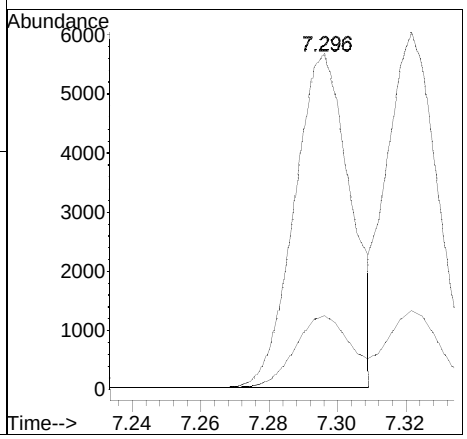


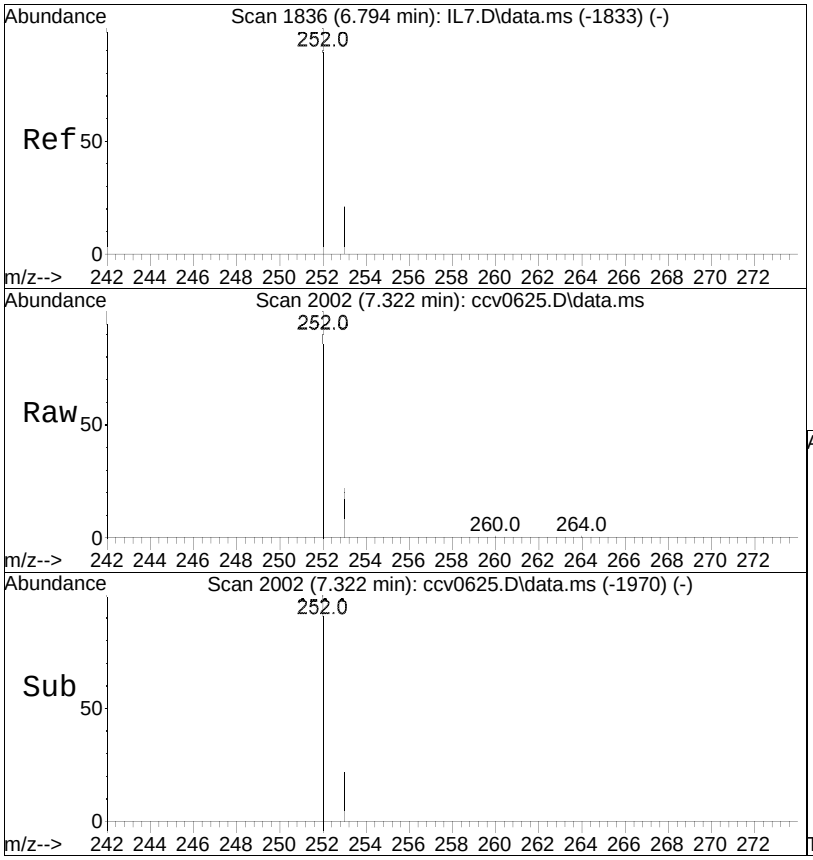


#37
Benzo[b]fluoranthene
Concen: 937.39 ng/ml
RT: 7.296 min Scan# 1994
Delta R.T. 0.000 min
Lab File: ccv0625.D
Acq: 25 Jun 2024 10:01 am

Tgt Ion:252 Resp: 6461

Ion	Ratio	Lower	Upper
252	100		
253	21.5	17.1	25.7

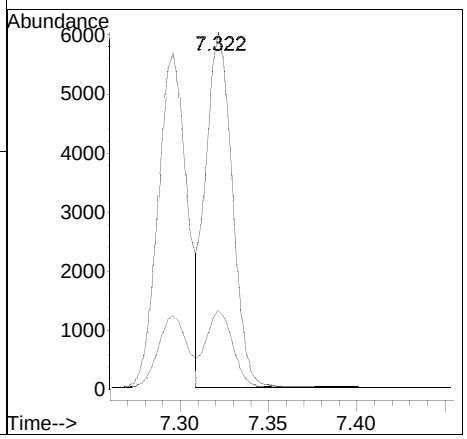


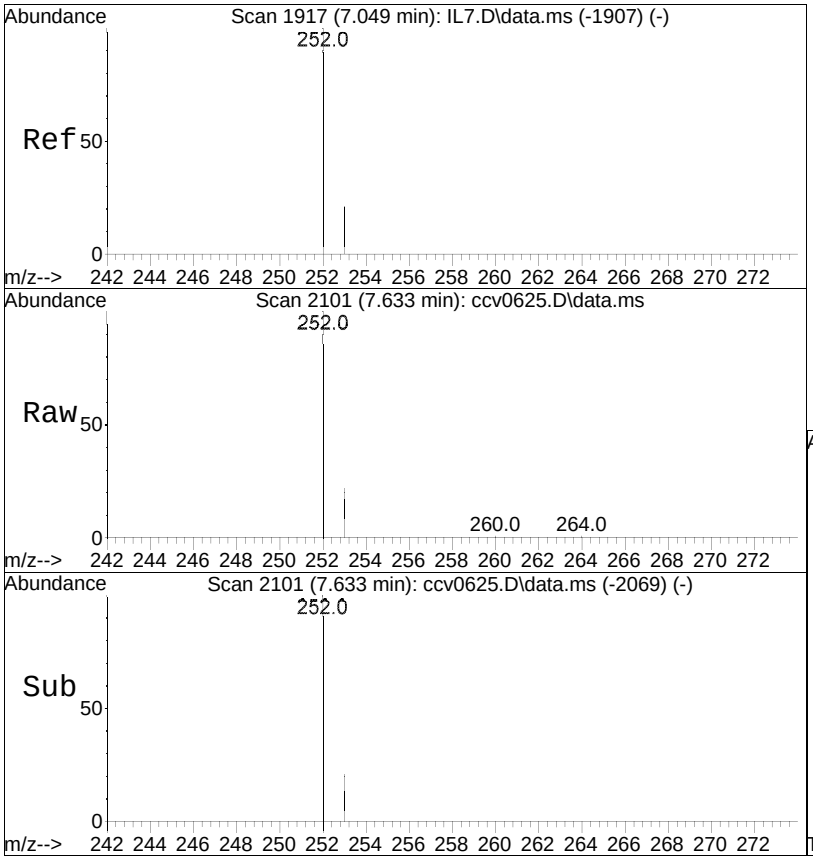


#38
Benzo[k]fluoranthene
Concen: 972.22 ng/ml
RT: 7.322 min Scan# 2002
Delta R.T. 0.000 min
Lab File: ccv0625.D
Acq: 25 Jun 2024 10:01 am

Tgt Ion:252 Resp: 6236

Ion	Ratio	Lower	Upper
252	100		
253	21.8	17.3	25.9

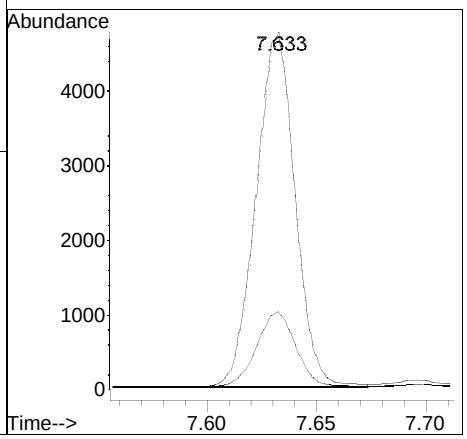


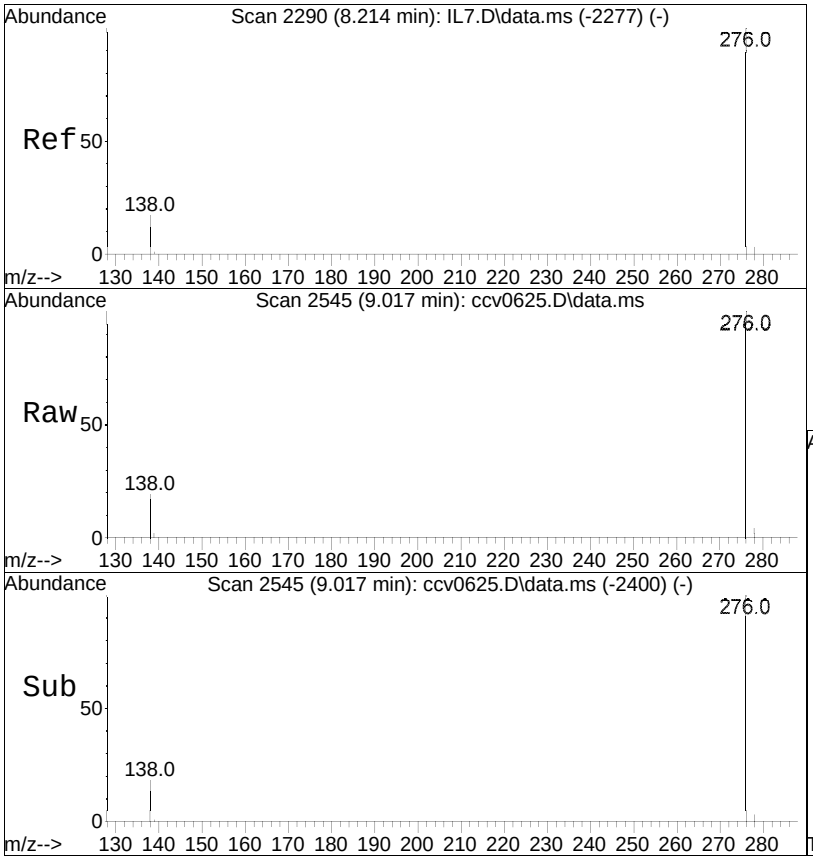


#39
Benzo[a]pyrene
Concen: 957.74 ng/ml
RT: 7.633 min Scan# 2101
Delta R.T. 0.000 min
Lab File: ccv0625.D
Acq: 25 Jun 2024 10:01 am

Tgt Ion:252 Resp: 5813

Ion	Ratio	Lower	Upper
252	100		
253	21.4	17.3	25.9

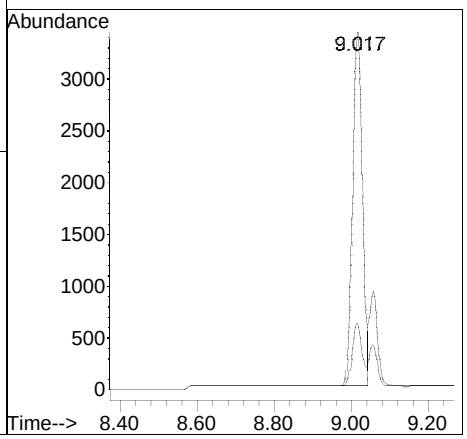


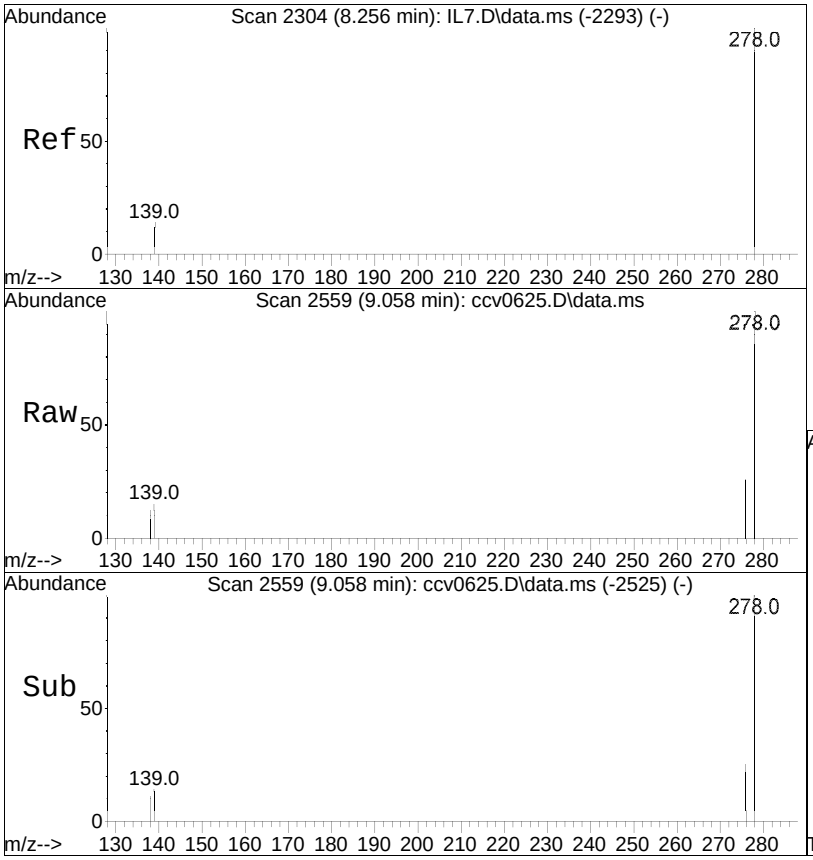


#40
Indeno[1,2,3-cd]pyrene
Concen: 969.18 ng/ml
RT: 9.017 min Scan# 2545
Delta R.T. 0.000 min
Lab File: ccv0625.D
Acq: 25 Jun 2024 10:01 am

Tgt Ion:276 Resp: 5882

Ion	Ratio	Lower	Upper
276	100		
138	17.4	13.4	20.2

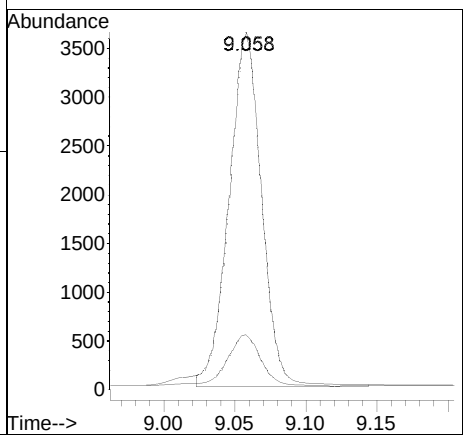


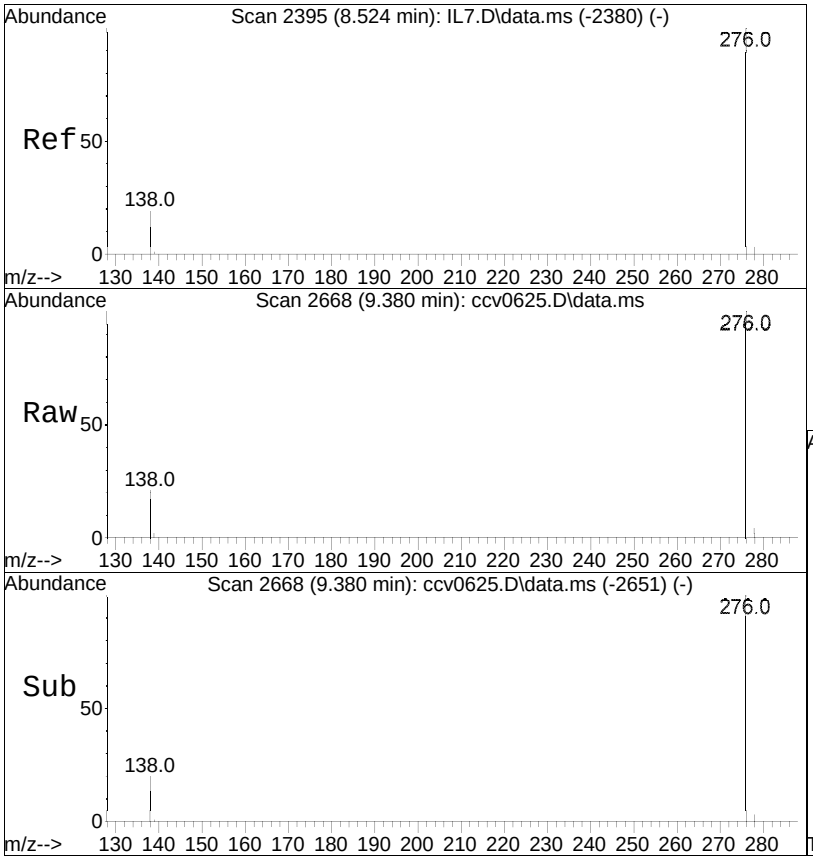


#41
Dibenzo[a,h]anthracene
Concen: 980.75 ng/ml M6
RT: 9.058 min Scan# 2559
Delta R.T. 0.000 min
Lab File: ccv0625.D
Acq: 25 Jun 2024 10:01 am

Tgt Ion:278 Resp: 5781

Ion	Ratio	Lower	Upper
278	100		
139	14.5	10.9	16.3

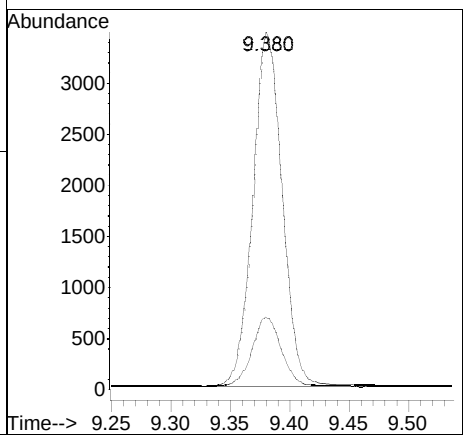




#42
Benzo[g,h,i]perylene
Concen: 929.73 ng/ml M1
RT: 9.380 min Scan# 2668
Delta R.T. 0.000 min
Lab File: ccv0625.D
Acq: 25 Jun 2024 10:01 am

Tgt Ion:276 Resp: 5865

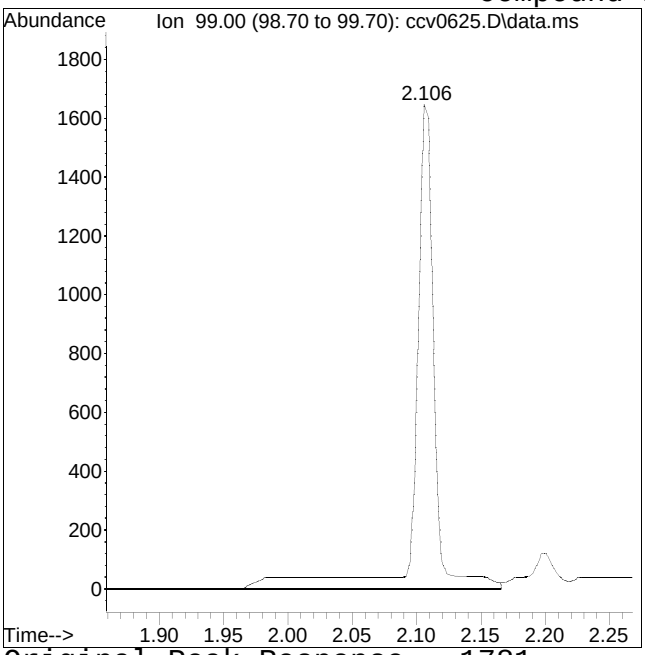
Ion	Ratio	Lower	Upper
276	100		
138	19.1	14.8	22.2



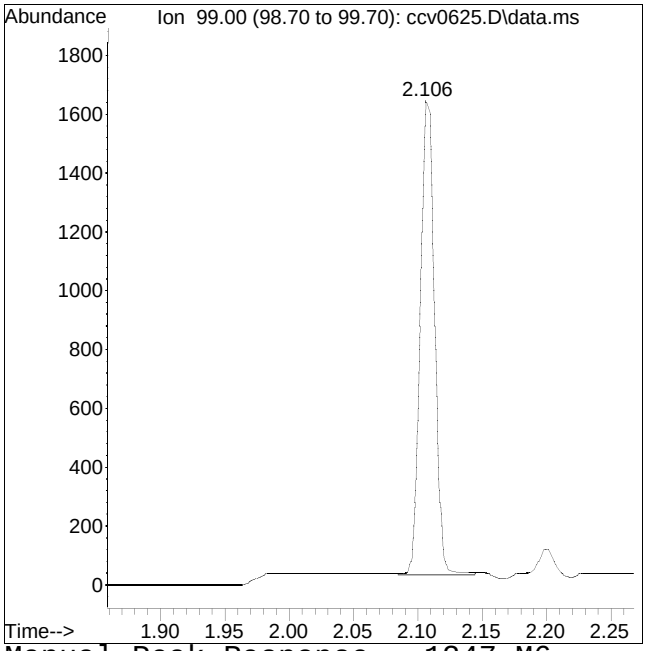
Manual Integration Report

Data Path : I:\8270SIM\SV128\240625\ QMethod : SIM-LVI_231211_sv128.M
Data File : ccv0625.D Operator : SV128:rp
Date Inj'd : 6/25/2024 10:01 am Instrument : SV128
Sample : WG1939038-3,32,,ICV 10475 Quant Date : 6/25/2024 10:22 am

Compound #3: Phenol-d6



Original Peak Response = 1781



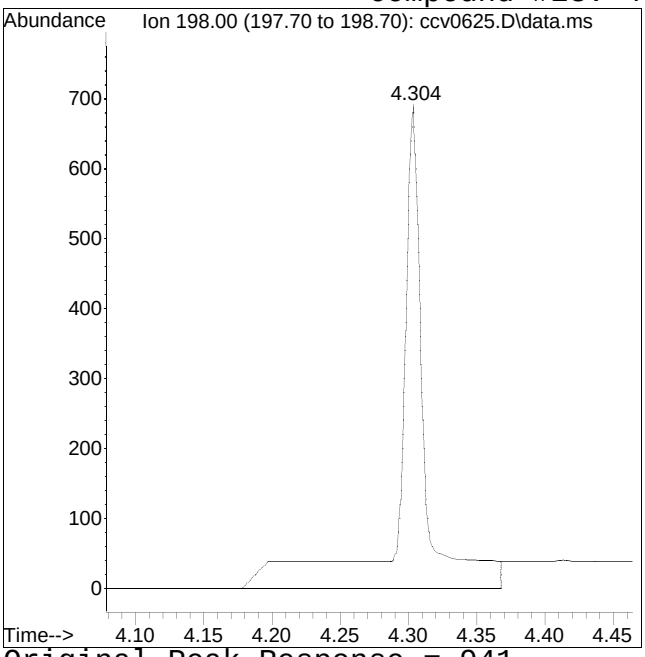
Manual Peak Response = 1247 M6

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

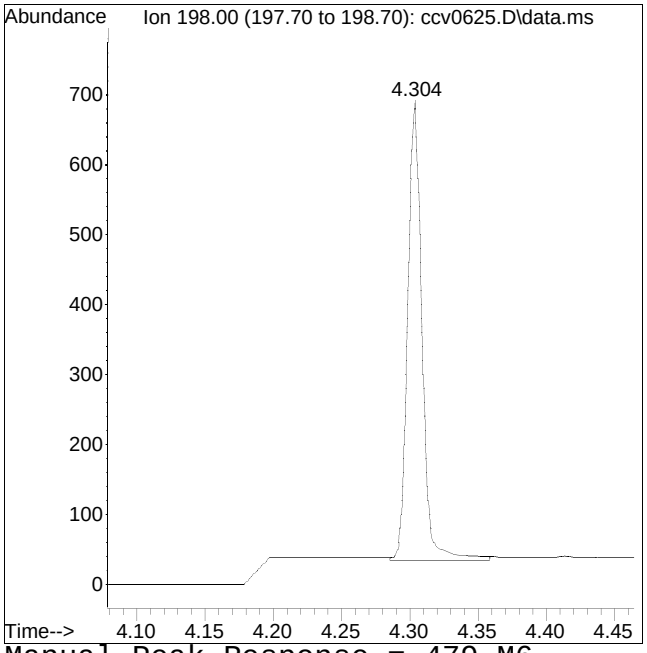
Manual Integration Report

Data Path : I:\8270SIM\SV128\240625\ QMethod : SIM-LVI_231211_sv128.M
Data File : ccv0625.D Operator : SV128:rp
Date Inj'd : 6/25/2024 10:01 am Instrument : SV128
Sample : WG1939038-3,32,,ICV 10475 Quant Date : 6/25/2024 10:22 am

Compound #23: 4,6-Dinitro-o-cresol



Original Peak Response = 941



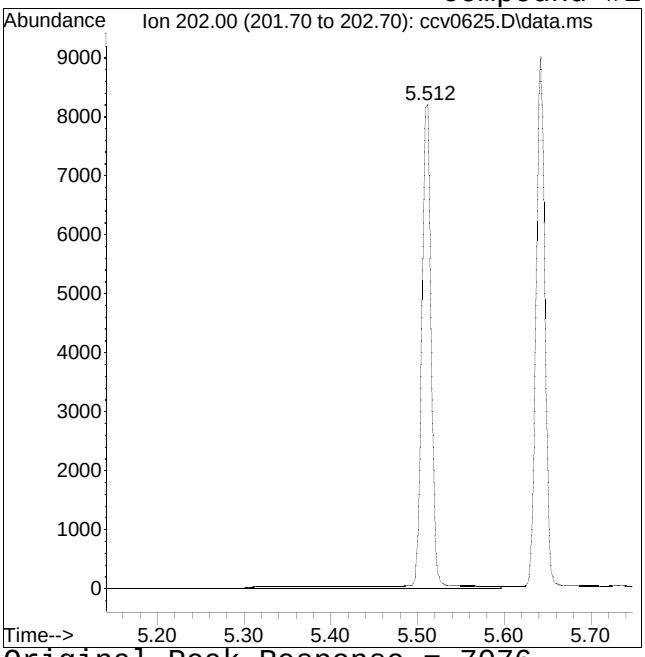
Manual Peak Response = 479 M6

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

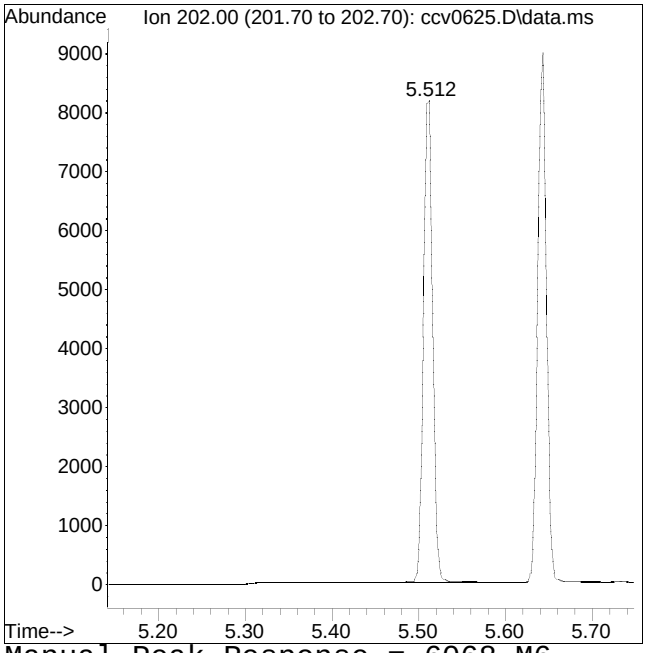
Manual Integration Report

Data Path : I:\8270SIM\SV128\240625\ QMethod : SIM-LVI_231211_sv128.M
Data File : ccv0625.D Operator : SV128:rp
Date Inj'd : 6/25/2024 10:01 am Instrument : SV128
Sample : WG1939038-3,32,,ICV 10475 Quant Date : 6/25/2024 10:22 am

Compound #28: Fluoranthene



Original Peak Response = 7076



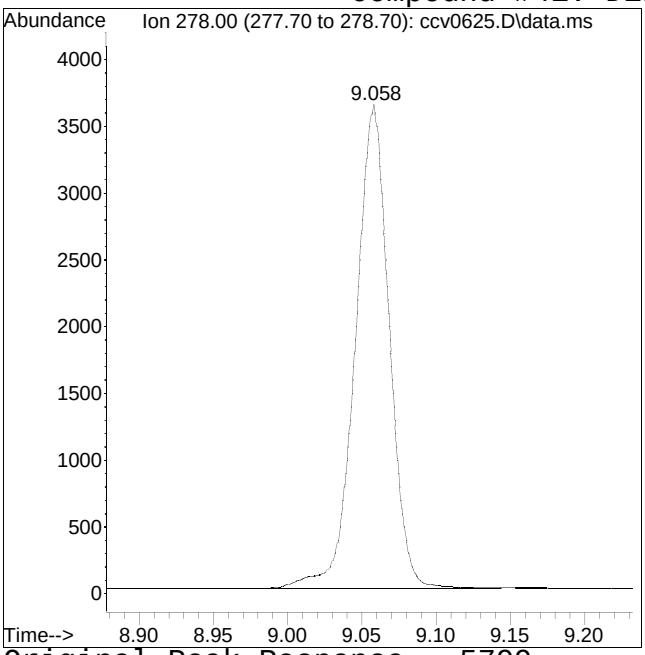
Manual Peak Response = 6068 M6

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

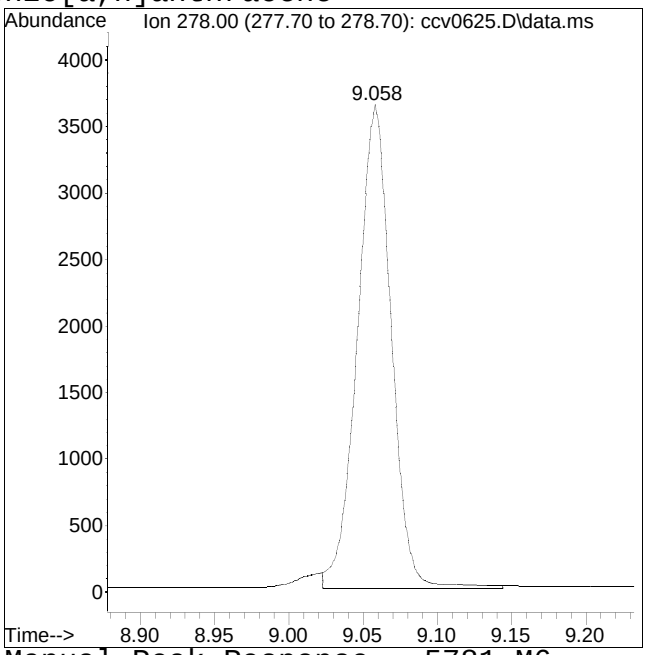
Manual Integration Report

Data Path : I:\8270SIM\SV128\240625\ QMethod : SIM-LVI_231211_sv128.M
Data File : ccv0625.D Operator : SV128:rp
Date Inj'd : 6/25/2024 10:01 am Instrument : SV128
Sample : WG1939038-3,32,,ICV 10475 Quant Date : 6/25/2024 10:22 am

Compound #41: Dibenzo[a,h]anthracene



Original Peak Response = 5799



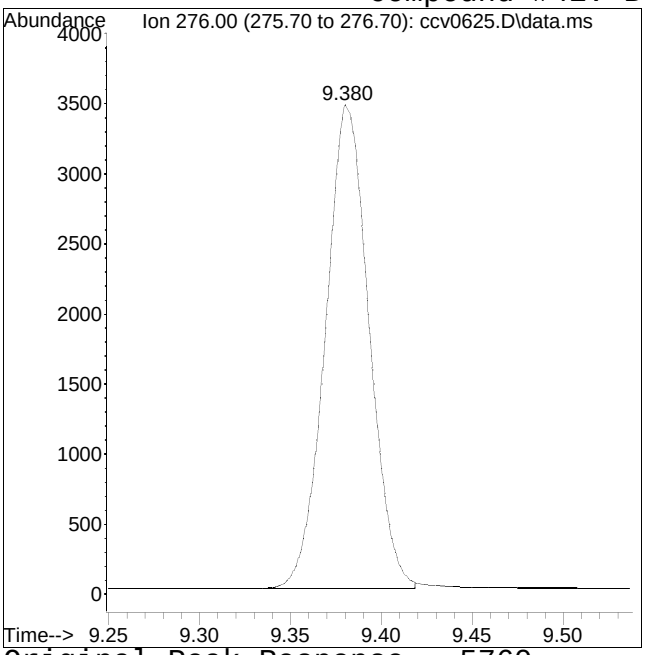
Manual Peak Response = 5781 M6

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

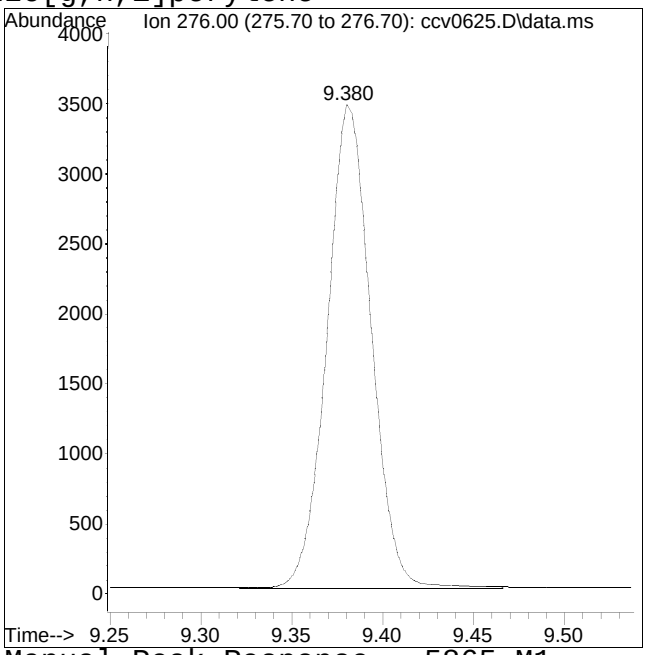
Manual Integration Report

Data Path : I:\8270SIM\SV128\240625\ QMethod : SIM-LVI_231211_sv128.M
Data File : ccv0625.D Operator : SV128:rp
Date Inj'd : 6/25/2024 10:01 am Instrument : SV128
Sample : WG1939038-3,32,,ICV 10475 Quant Date : 6/25/2024 10:22 am

Compound #42: Benzo[g,h,i]perylene



Original Peak Response = 5760



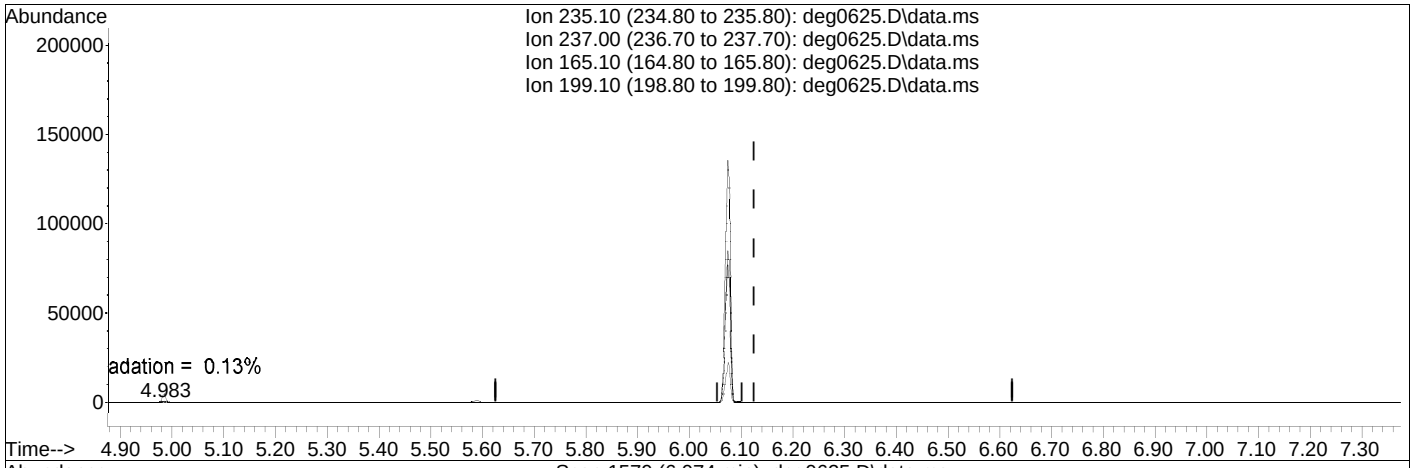
Manual Peak Response = 5865 M1

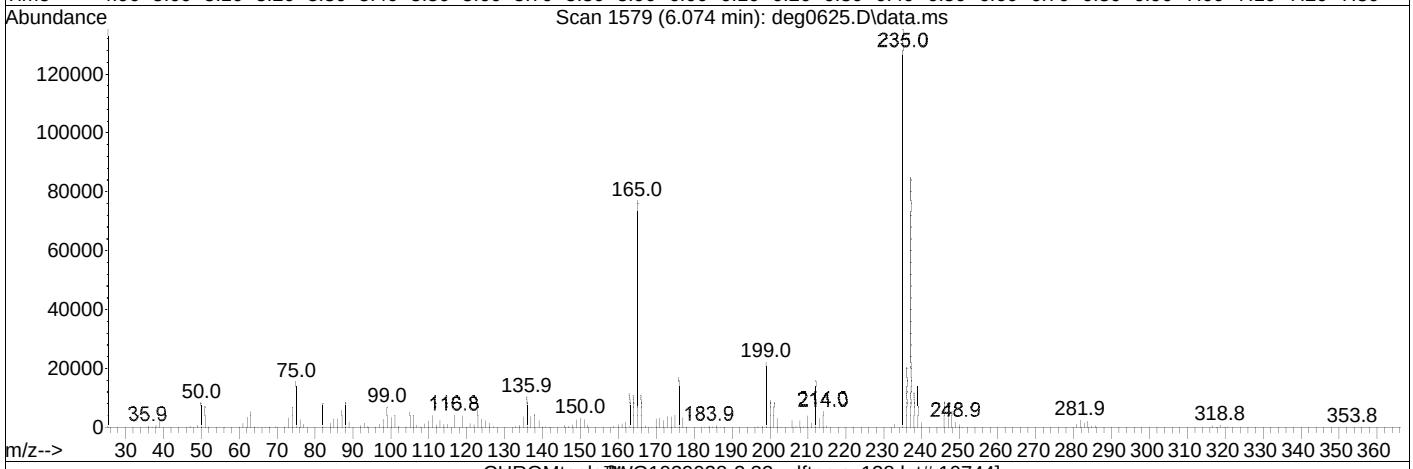
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Quantitation Report (Qedit)

Data Path : I:\8270SIM\SV128\240625\
Data File : deg0625.D
Acq On : 25 Jun 2024 09:43 am
Operator : SV128:jjw
Sample : WG1939038-2,32,, dftpp sv128 lot# 10744
Misc : WG1939038,,ical20676
ALS Vial : 48 Sample Multiplier: 1

Quant Time: Jun 25 09:57:59 2024
Quant Method : I:\8270SIM\SV128\240625\dftppsv128.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Sat Jun 22 16:12:16 2024
Response via : Continuing Cal File: C:\ENVDEMO\BNADATA\DLWB002.D





CHROMtools™ [WG1939038-2,32,, dftpp sv128 lot# 10744]

(6) ddt (T)

6.074min (-0.051) 13.63

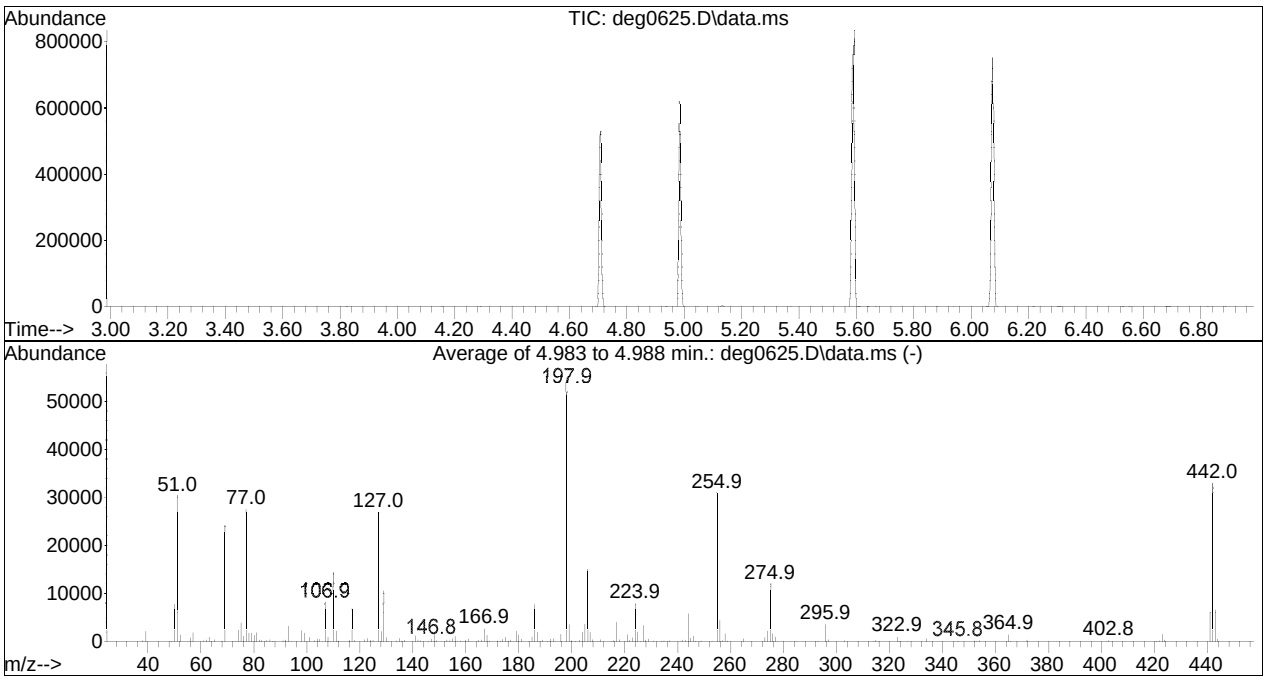
response 83106

Ion	Exp%	Act%
235.10	100.00	100.00
237.00	65.60	63.46
165.10	53.30	56.23
199.10	17.10	16.56

Data Path : I:\8270SIM\SV128\240625\
Data File : deg0625.D
Acq On : 25 Jun 2024 09:43 am
Operator : SV128:jjw
Sample : WG1939038-1,32,, dftpp sv128 lot# 10744
Misc : WG1939038,,ical20676
ALS Vial : 48 Sample Multiplier: 1

Integration File: rteint.p

Method : I:\8270SIM\SV128\240625\SIM-LVI_231211_sv128.M
Title : Semivolatiles by GC/MS by modified 8270
Last Update : Tue Jun 25 10:22:00 2024



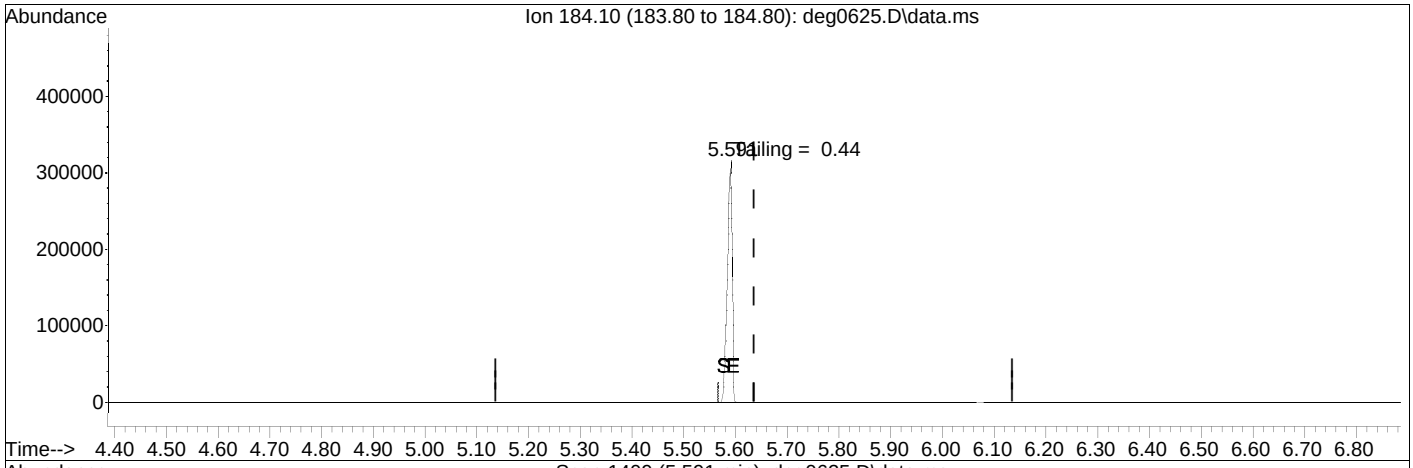
Spectrum Information: Average of 4.983 to 4.988 min.

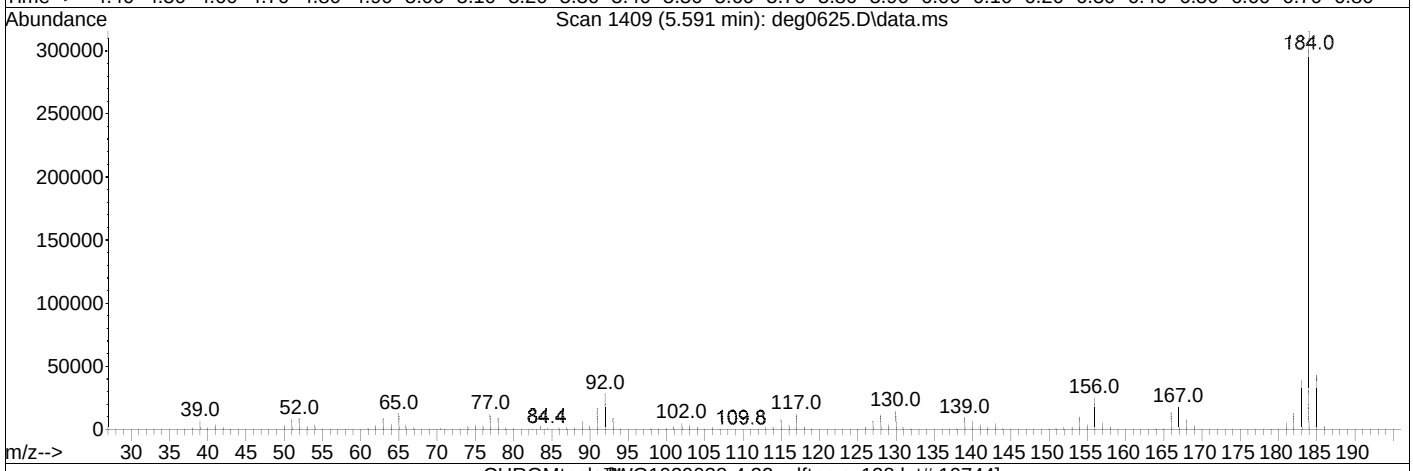
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	55.3	30395	PASS
68	69	0.00	2	1.0	233	PASS
69	69	100	100	100.0	24147	PASS
70	69	0.00	2	0.0	0	PASS
127	198	10	80	49.2	27032	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	54981	PASS
199	198	5	9	6.5	3582	PASS
275	198	10	60	21.7	11947	PASS
365	198	1	100	2.7	1471	PASS
441	442	0.01	24	19.0	6263	PASS
442	198	50	100	60.0	32976	PASS
443	442	15	24	20.1	6632	PASS

Quantitation Report (Qedit)

Data Path : I:\8270SIM\SV128\240625\
Data File : deg0625.D
Acq On : 25 Jun 2024 09:43 am
Operator : SV128:jjw
Sample : WG1939038-4,32,, dftpp sv128 lot# 10744
Misc : WG1939038,,ical20676
ALS Vial : 48 Sample Multiplier: 1

Quant Time: Jun 25 09:57:59 2024
Quant Method : I:\8270SIM\SV128\240625\dftppsv128.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Sat Jun 22 16:12:16 2024
Response via : Continuing Cal File: C:\ENVDEMO\BNADATA\DLWB002.D





CHROMtools™ [WG1939038-4,32,, dftpp sv128 lot# 10744]

(3) benzidine (T)

5.591min (-0.045) 18.75

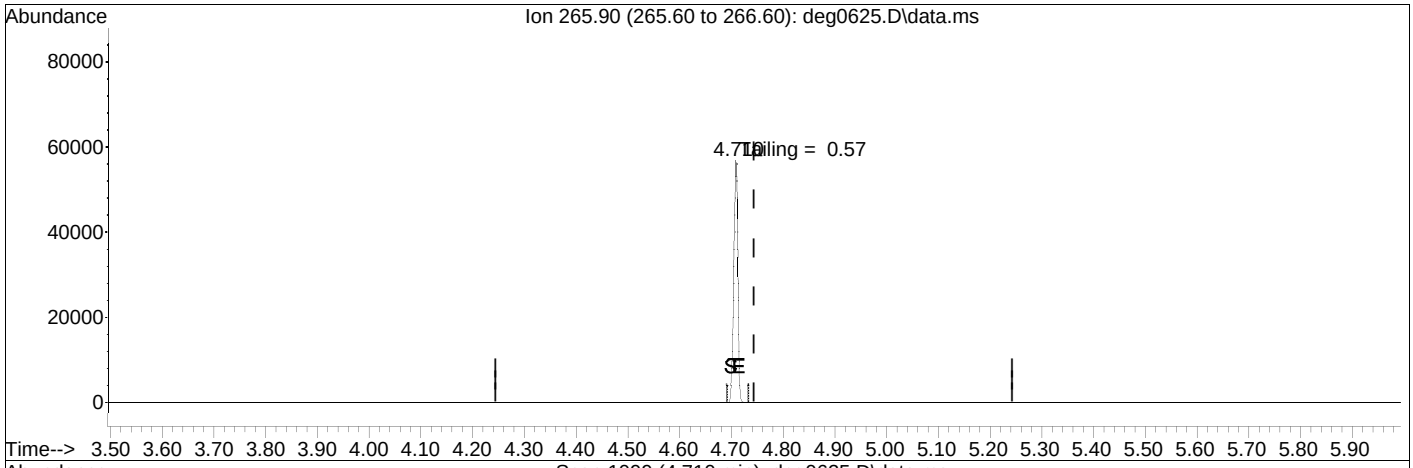
response 190840

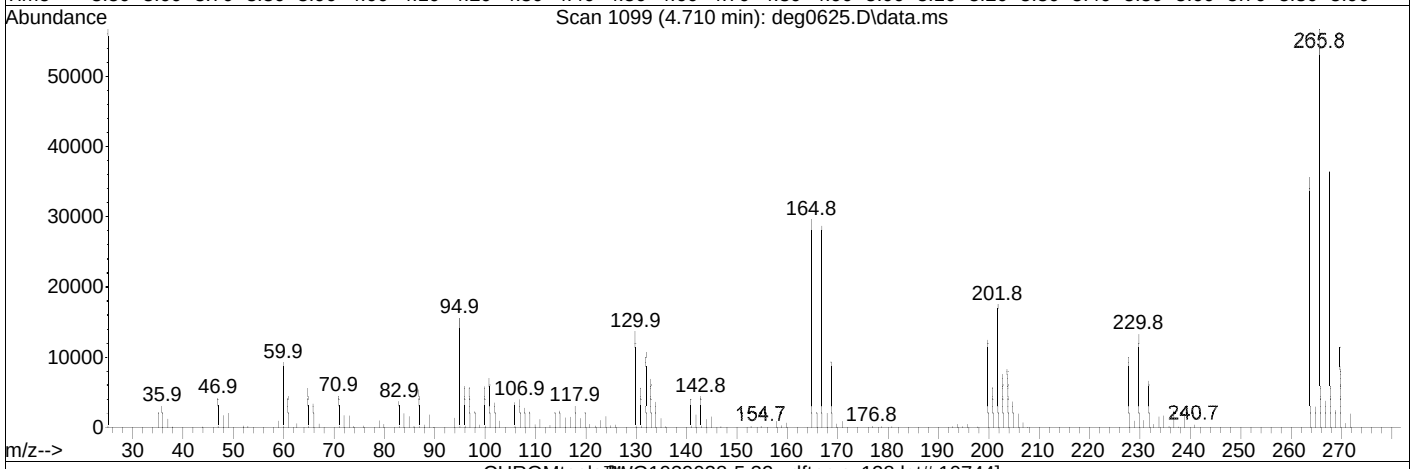
Ion	Exp%	Act%
184.10	100.00	100.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\8270SIM\SV128\240625\
Data File : deg0625.D
Acq On : 25 Jun 2024 09:43 am
Operator : SV128:jjw
Sample : WG1939038-5,32,, dftpp sv128 lot# 10744
Misc : WG1939038,,ical20676
ALS Vial : 48 Sample Multiplier: 1

Quant Time: Jun 25 09:57:59 2024
Quant Method : I:\8270SIM\SV128\240625\dftppsv128.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Sat Jun 22 16:12:16 2024
Response via : Continuing Cal File: C:\ENVDEMO\BNADATA\DLWB002.D





CHROMtools™ [WG1939038-5,32,, dftpp sv128 lot# 10744]

(1) pentachlorophenol (T)

4.710min (-0.034) 13.67

response 28715

Ion	Exp%	Act%
265.90	100.00	100.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Semivolatiles Raw QC Data

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV128\240624\
Data File : 938280-1.D
Acq On : 24 Jun 2024 12:02 pm
Operator : SV128:jjw
Sample : WG1938280-1,32,,jjw
Misc : WG1938533,WG1938280,ical20676
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 27 14:01:48 2024
Quant Method : I:\8270sim\sv128\240624\SIM-LVI_231211_sv128.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 24 11:39:29 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270sim\sv128\240624\ccv0624.D
Sub List : DEFAULT - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.294	152	3765	4000.000	ng/ml	-0.01
Standard Area 1 = 4069			Recovery = 92.53%			
8) Naphthalene-d8	2.970	136	12909	4000.000	ng/ml	0.00
Standard Area 1 = 14375			Recovery = 89.80%			
17) Acenaphthene-d10	3.959	164	7122	4000.000	ng/ml	0.00
Standard Area 1 = 8180			Recovery = 87.07%			
22) Phenanthrene-d10	4.809	188	15506	4000.000	ng/ml	0.00
Standard Area 1 = 17962			Recovery = 86.33%			
31) Chrysene-d12	6.398	240	13633	4000.000	ng/ml	0.00
Standard Area 1 = 16460			Recovery = 82.83%			
36) Perylene-d12	7.721	264	15342	4000.000	ng/ml	0.00
Standard Area 1 = 18271			Recovery = 83.97%			
System Monitoring Compounds						
2) 2-Fluorophenol	1.684	112	3206	3381.538	ng/ml	-0.01
Spiked Amount 5000.000	Range 15 - 110		Recovery = 67.63%			
3) Phenol-d6	2.097	99	3323	2999.053	ng/ml	-0.01
Spiked Amount 5000.000	Range 15 - 110		Recovery = 59.98%			
7) Nitrobenzene-d5	2.579	82	2769	3092.347	ng/ml	-0.01
Spiked Amount 2500.000	Range 30 - 130		Recovery = 123.69%			
13) 2-Fluorobiphenyl	3.572	172	5406	1974.705	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 78.99%			
21) 2,4,6-Tribromophenol	4.411	330	1491	4189.409	ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 83.79%			
30) 4-Terphenyl-d14	5.734	244	6859	2123.226	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 84.93%			
Target Compounds						Qvalue
6) Hexachloroethane	0.000		0	N.D.		
9) Naphthalene	2.979	128	59M6	17.823	ng/ml	
10) Hexachlorobutadiene	0.000		0	N.D.		
11) 2-Methylnaphthalene	3.364	142	15M6	7.093	ng/ml	
14) 2-Chloronaphthalene	0.000		0	N.D.	d	
16) Acenaphthylene	0.000		0	N.D.	d	
18) Acenaphthene	3.977	153	11M4	4.569	ng/ml	
20) Fluorene	4.271	166	16M6	6.585	ng/ml	
24) Hexachlorobenzene	4.593	284	4M3	3.877	ng/ml	
25) Pentachlorophenol	0.000		0	N.D.	d	

Data Path : I:\8270SIM\SV128\240624\
Data File : 938280-1.D
Acq On : 24 Jun 2024 12:02 pm
Operator : SV128:jjw
Sample : WG1938280-1,32,,jjw
Misc : WG1938533,WG1938280,ical20676
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 27 14:01:48 2024
Quant Method : I:\8270sim\sv128\240624\SIM-LVI_231211_sv128.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 24 11:39:29 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270sim\sv128\240624\ccv0624.D
Sub List : DEFAULT - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
26) Phenanthrene	4.824	178	34M6	8.109	ng/ml	
27) Anthracene	4.853	178	18M4	4.443	ng/ml	
28) Fluoranthene	5.513	202	23M6	4.993	ng/ml	
29) Pyrene	5.644	202	21	4.406	ng/ml	96
32) Benzo[a]anthracene	0.000		0	N.D.	d	
34) Chrysene	0.000		0	N.D.	d	
37) Benzo[b]fluoranthene	7.313	252	14M7	2.947	ng/ml	
38) Benzo[k]fluoranthene	7.344	252	13M7	2.940	ng/ml	
39) Benzo[a]pyrene	7.655	252	10M7	2.390	ng/ml	
40) Indeno[1,2,3-cd]pyrene	0.000		0	N.D.	d	
41) Dibenzo[a,h]anthracene	0.000		0	N.D.	d	
42) Benzo[g,h,i]perylene	9.413	276	14M7	3.220	ng/ml	

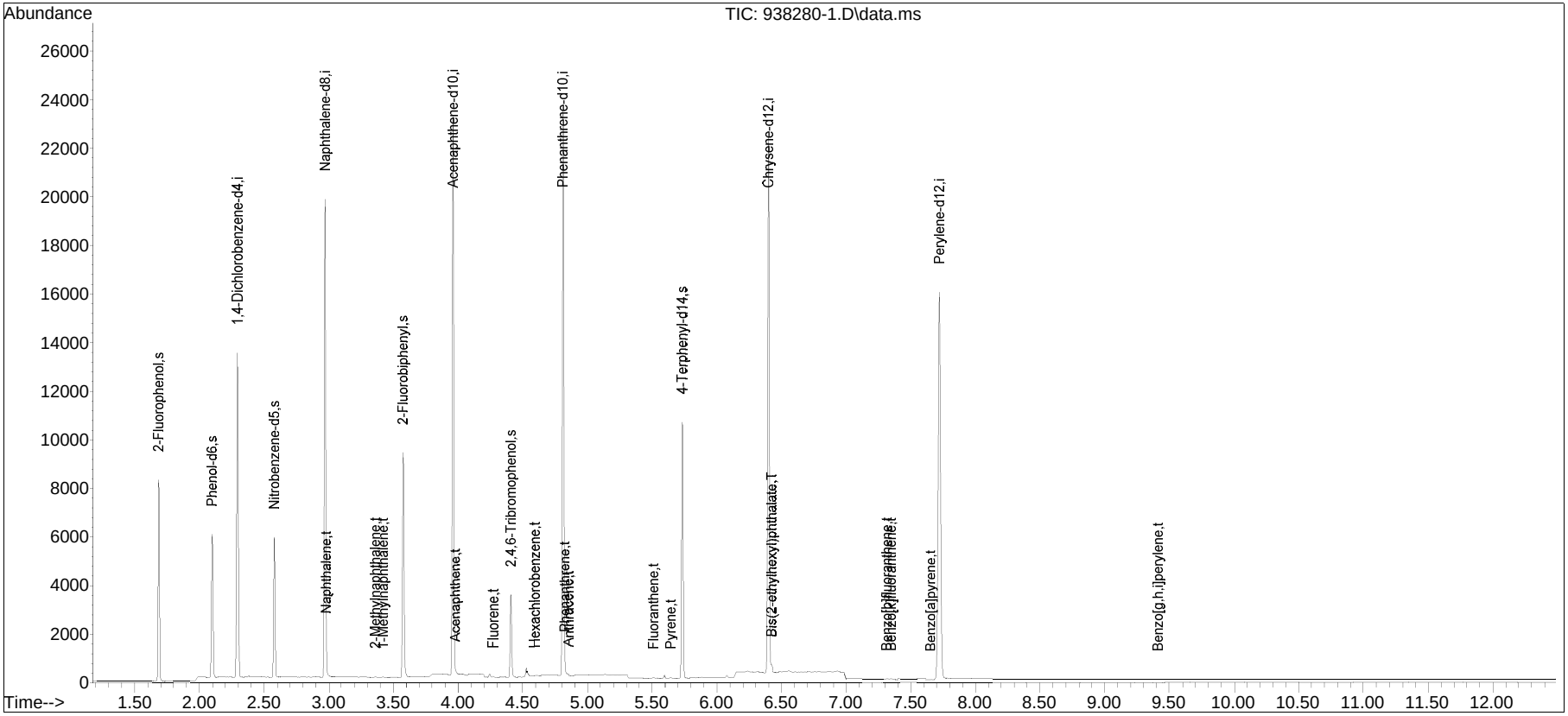
(#) = qualifier out of range (m) = manual integration (+) = signals summed

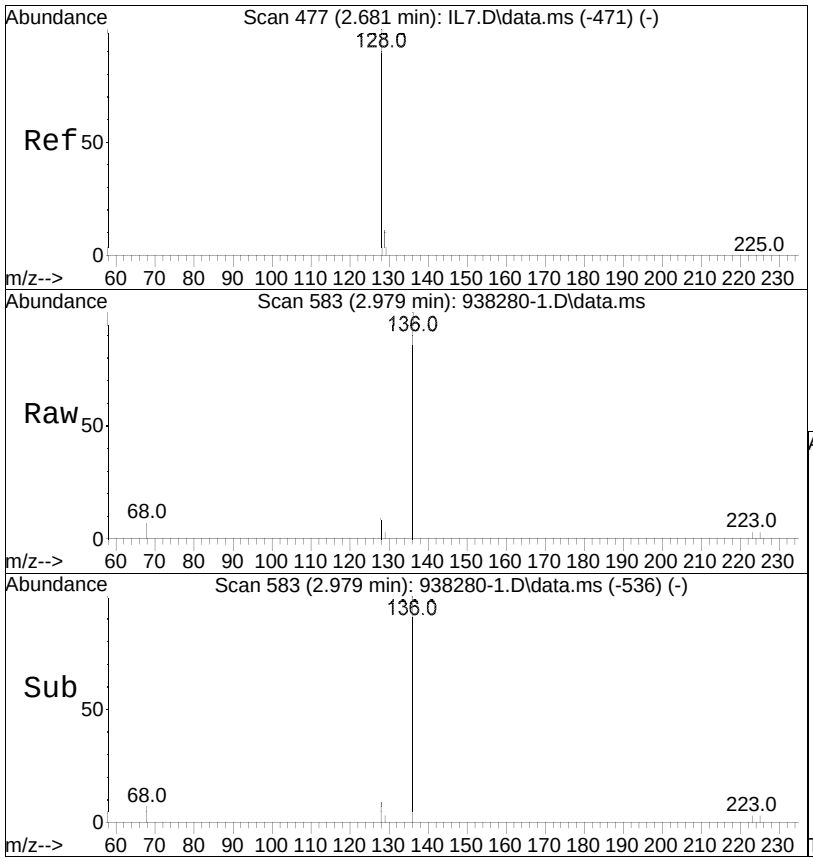
Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV128\240624\
Data File : 938280-1.D
Acq On : 24 Jun 2024 12:02 pm
Operator : SV128:jjw
Sample : WG1938280-1,32,,jjw
Misc : WG1938533,WG1938280,ical20676
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 27 14:01:48 2024
Quant Method : I:\8270sim\sv128\240624\SIM-LVI_231211_sv128.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 24 11:39:29 2024
Response via : Initial Calibration

Sub List : DEFAULT - All compounds listedv0624.D•

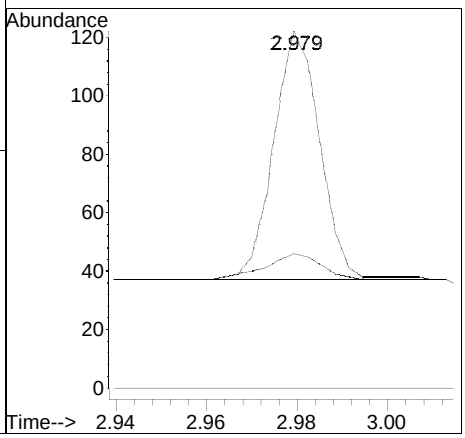


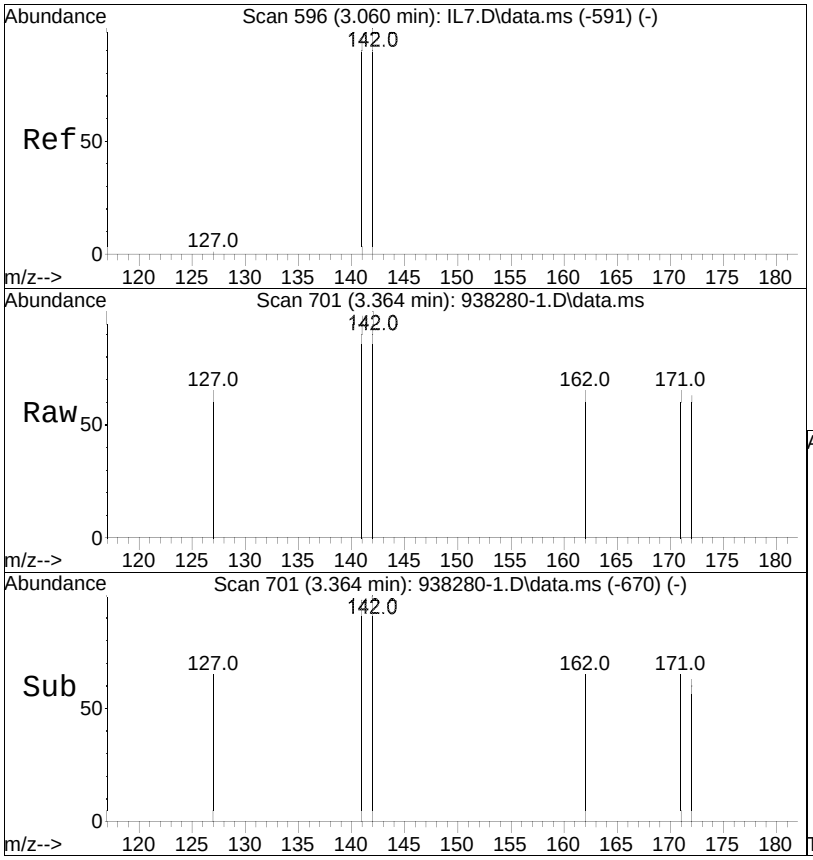


#9
Naphthalene
Concen: 17.82 ng/ml M6
RT: 2.979 min Scan# 583
Delta R.T. -0.008 min
Lab File: 938280-1.D
Acq: 24 Jun 2024 12:02 pm

Tgt Ion:128 Resp: 59

Ion	Ratio	Lower	Upper
128	100		
129	11.9	8.8	13.2
127	0.0	0.0	0.0

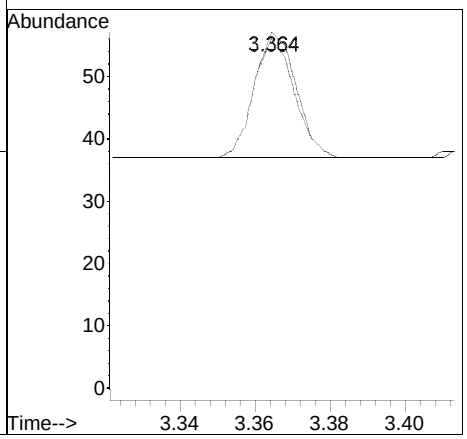


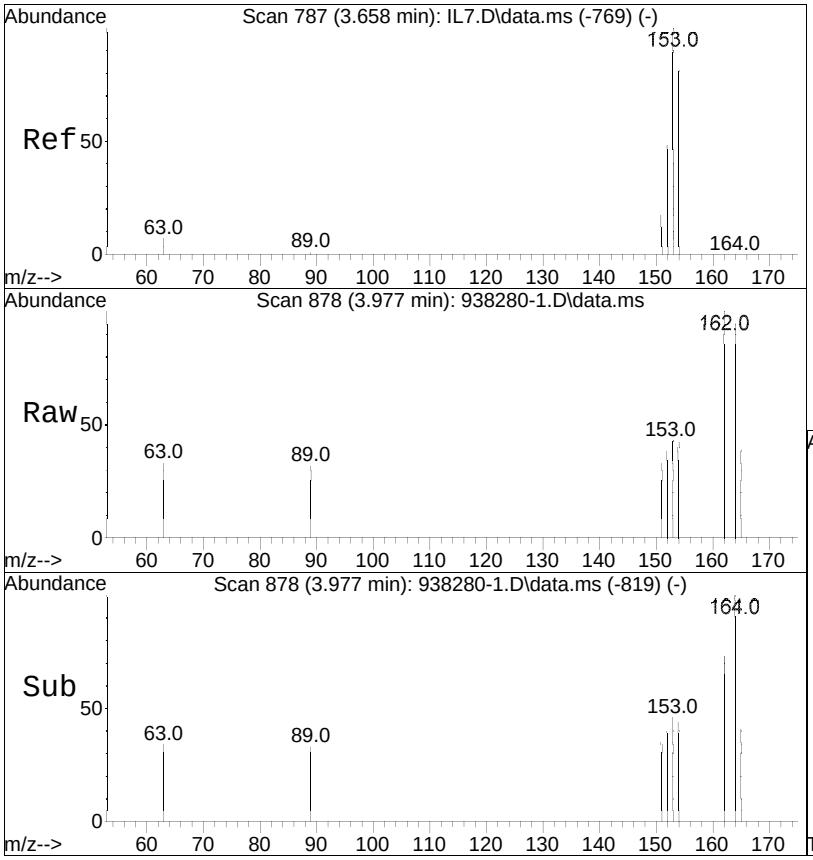


#11
2-Methylnaphthalene
Concen: 7.09 ng/ml M6
RT: 3.364 min Scan# 701
Delta R.T. -0.005 min
Lab File: 938280-1.D
Acq: 24 Jun 2024 12:02 pm

Tgt Ion:142 Resp: 15

Ion	Ratio	Lower	Upper
142	100		
141	93.3	75.9	113.9

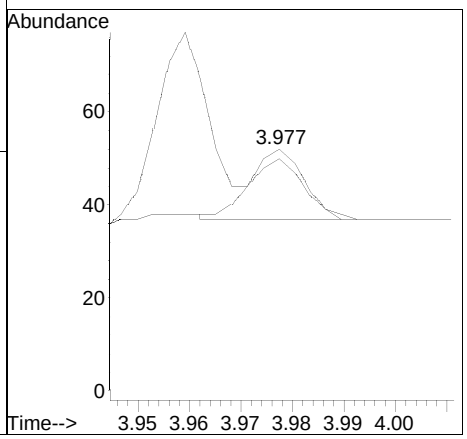


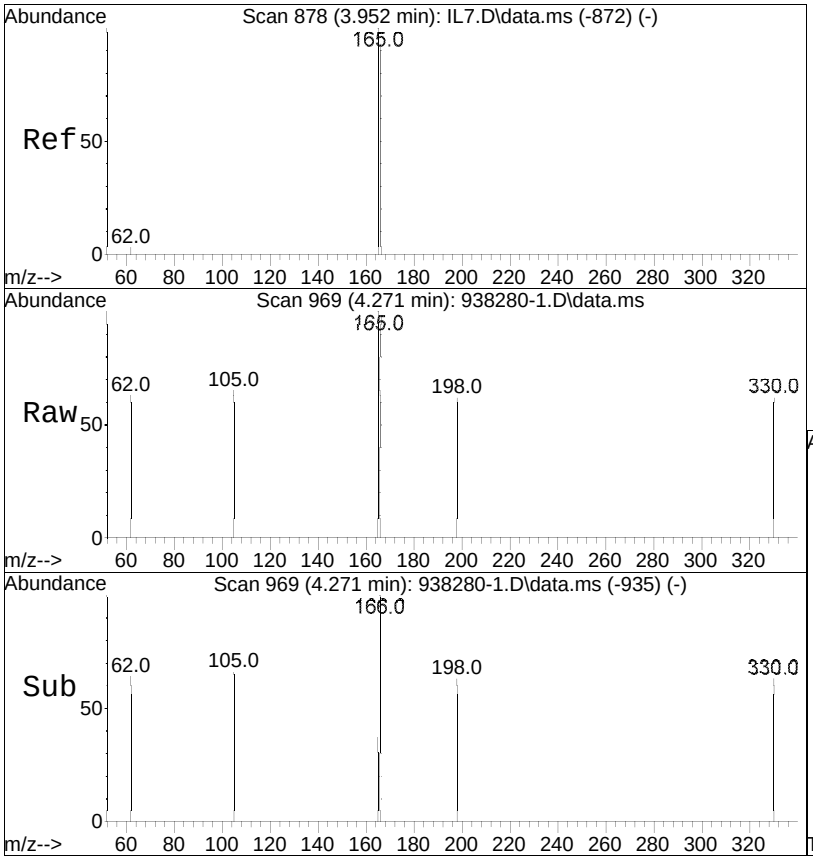


#18
Acenaphthene
Concen: 4.57 ng/ml M4
RT: 3.977 min Scan# 878
Delta R.T. -0.002 min
Lab File: 938280-1.D
Acq: 24 Jun 2024 12:02 pm

Tgt Ion:153 Resp: 11

Ion	Ratio	Lower	Upper
153	100		
154	72.7	65.8	98.6

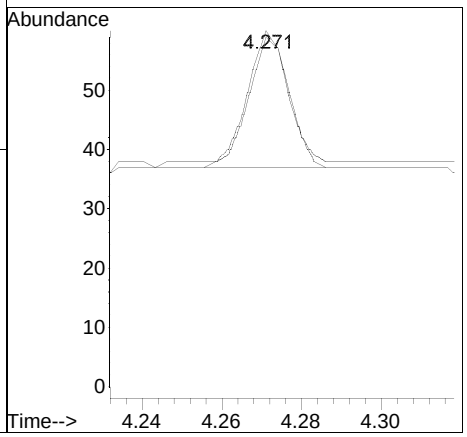


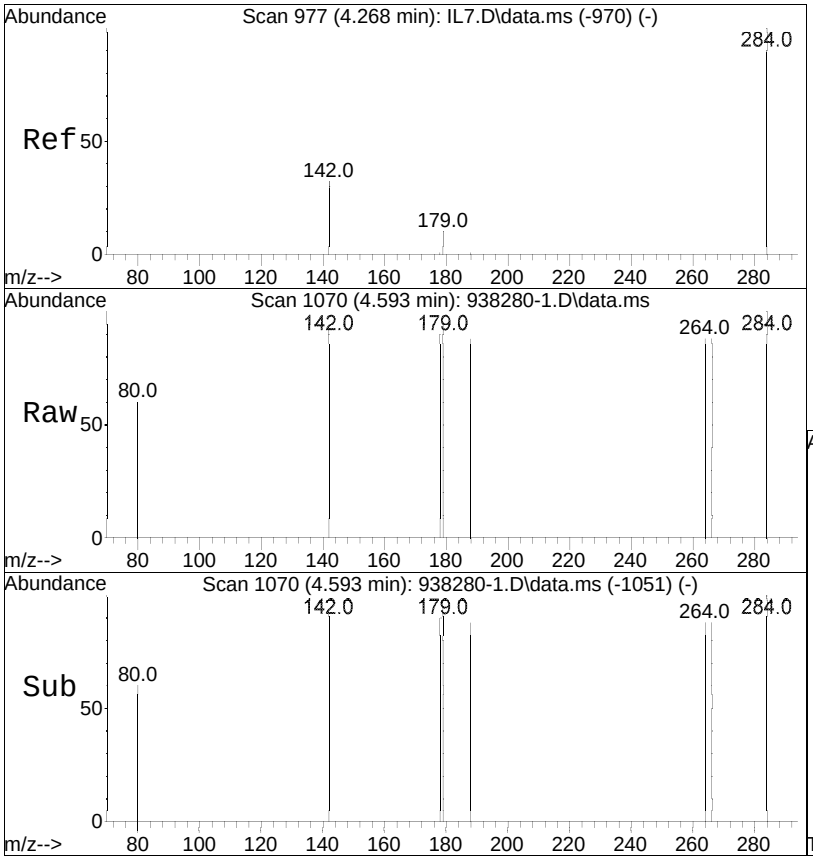


#20
Fluorene
Concen: 6.58 ng/ml M6
RT: 4.271 min Scan# 969
Delta R.T. -0.002 min
Lab File: 938280-1.D
Acq: 24 Jun 2024 12:02 pm

Tgt Ion:166 Resp: 16

Ion	Ratio	Lower	Upper
166	100		
165	112.5	85.7	128.5

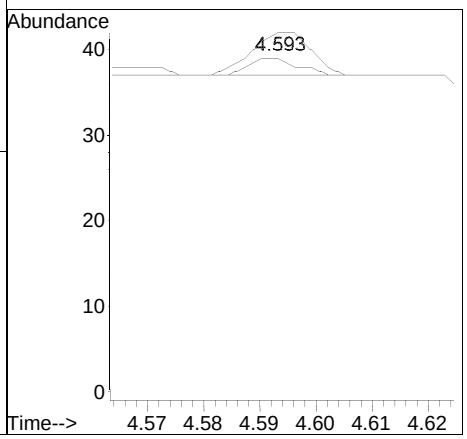


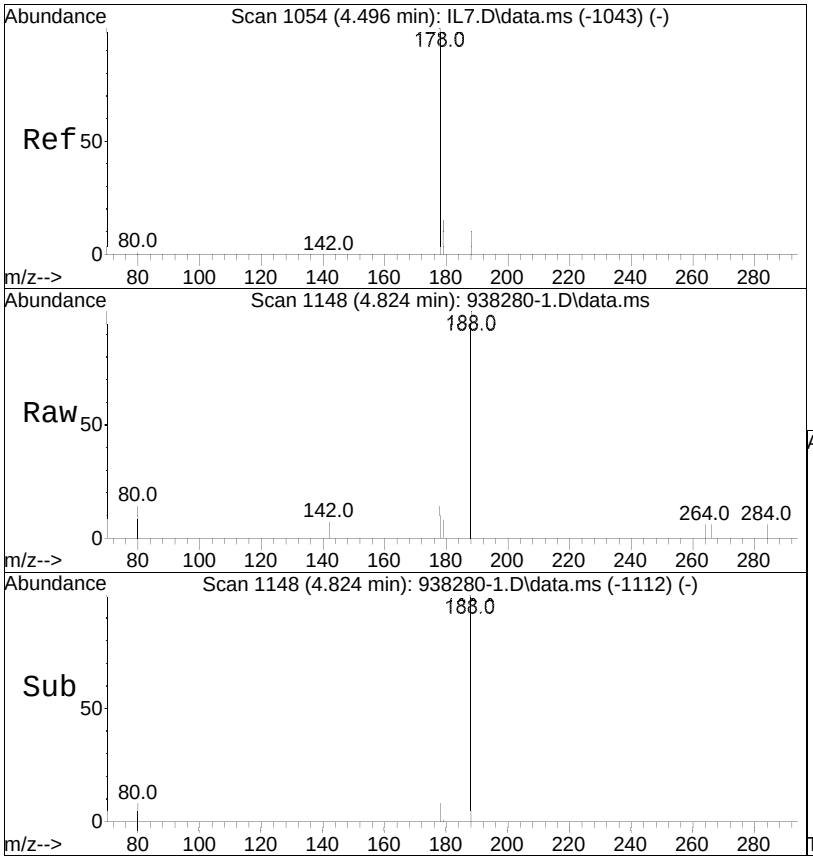


#24
Hexachlorobenzene
Concen: 3.88 ng/ml M3
RT: 4.593 min Scan# 1070
Delta R.T. -0.002 min
Lab File: 938280-1.D
Acq: 24 Jun 2024 12:02 pm

Tgt Ion:284 Resp: 4

Ion	Ratio	Lower	Upper
284	100		
142	25.0	23.9	35.9

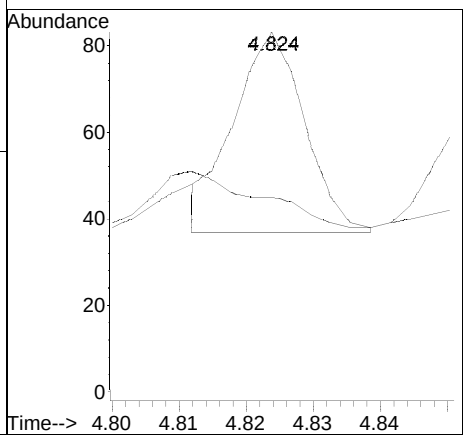


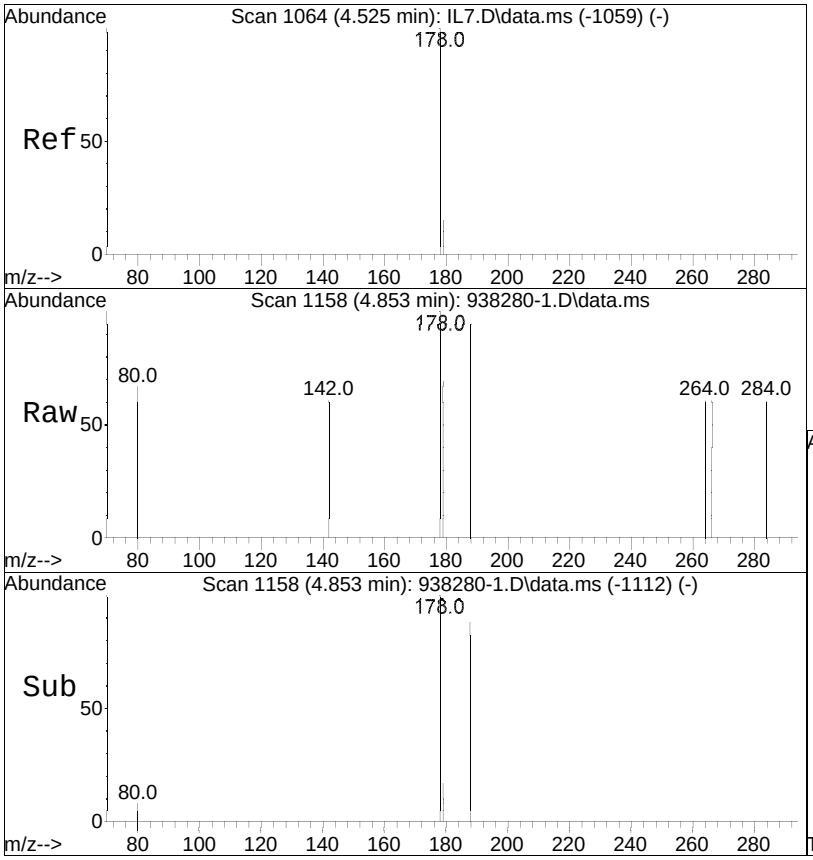


#26
Phenanthrene
Concen: 8.11 ng/ml M6
RT: 4.824 min Scan# 1148
Delta R.T. 0.001 min
Lab File: 938280-1.D
Acq: 24 Jun 2024 12:02 pm

Tgt Ion:178 Resp: 34

Ion	Ratio	Lower	Upper
178	100		
179	14.7	12.2	18.4

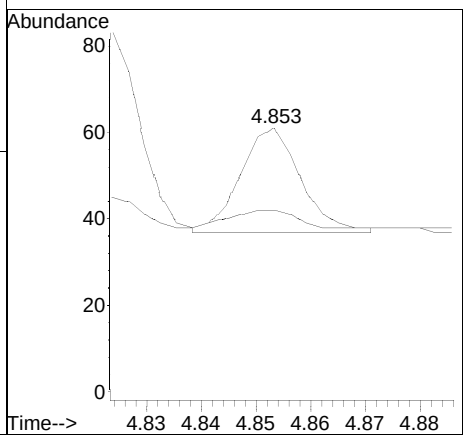


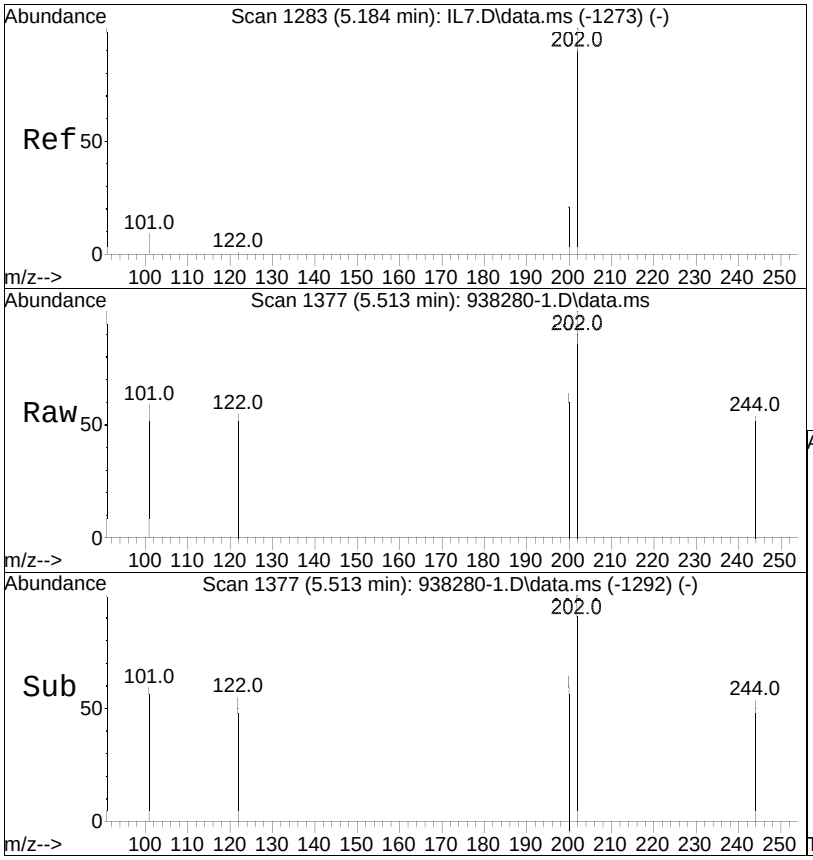


#27
Anthracene
Concen: 4.44 ng/ml M4
RT: 4.853 min Scan# 1158
Delta R.T. 0.001 min
Lab File: 938280-1.D
Acq: 24 Jun 2024 12:02 pm

Tgt Ion:178 Resp: 18

Ion	Ratio	Lower	Upper
178	100		
179	16.7	12.2	18.2

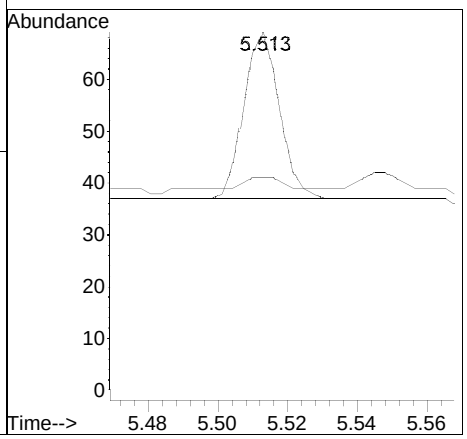


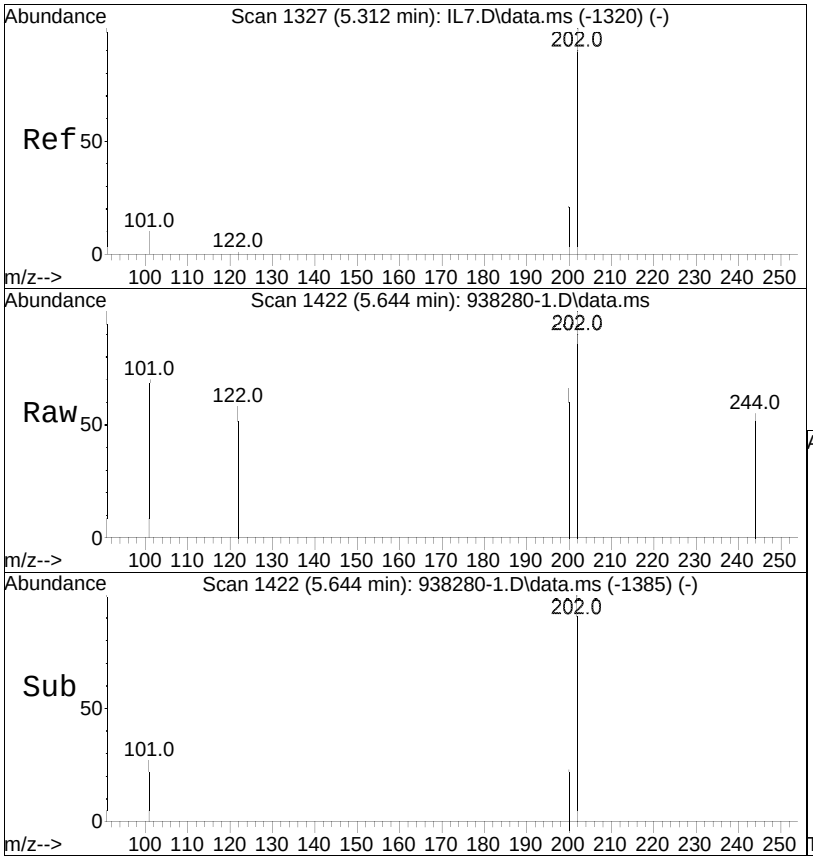


#28
Fluoranthene
Concen: 4.99 ng/ml M6
RT: 5.513 min Scan# 1377
Delta R.T. 0.004 min
Lab File: 938280-1.D
Acq: 24 Jun 2024 12:02 pm

Tgt Ion:202 Resp: 23

Ion	Ratio	Lower	Upper
202	100		
101	13.0	7.2	10.8#

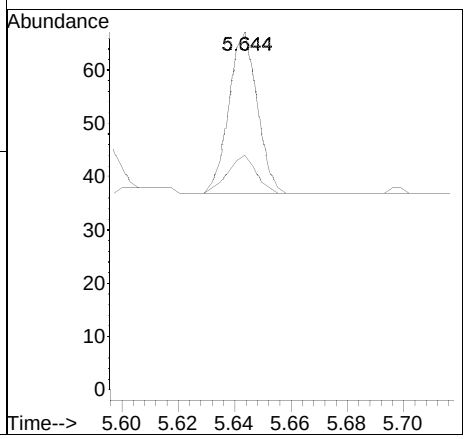


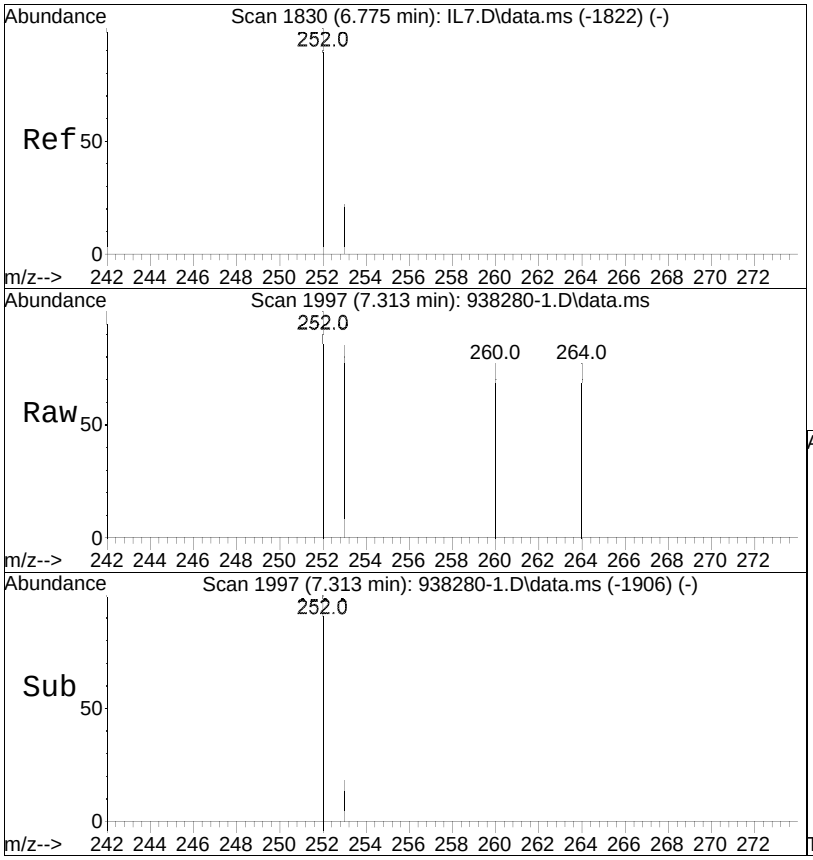


#29
Pyrene
Concen: 4.41 ng/ml
RT: 5.644 min Scan# 1422
Delta R.T. 0.004 min
Lab File: 938280-1.D
Acq: 24 Jun 2024 12:02 pm

Tgt Ion:202 Resp: 21

Ion	Ratio	Lower	Upper
202	100		
200	23.8	17.7	26.5

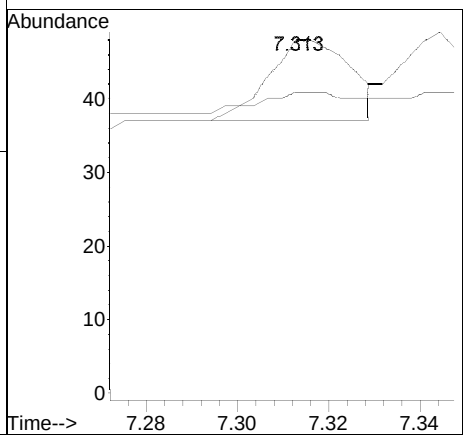


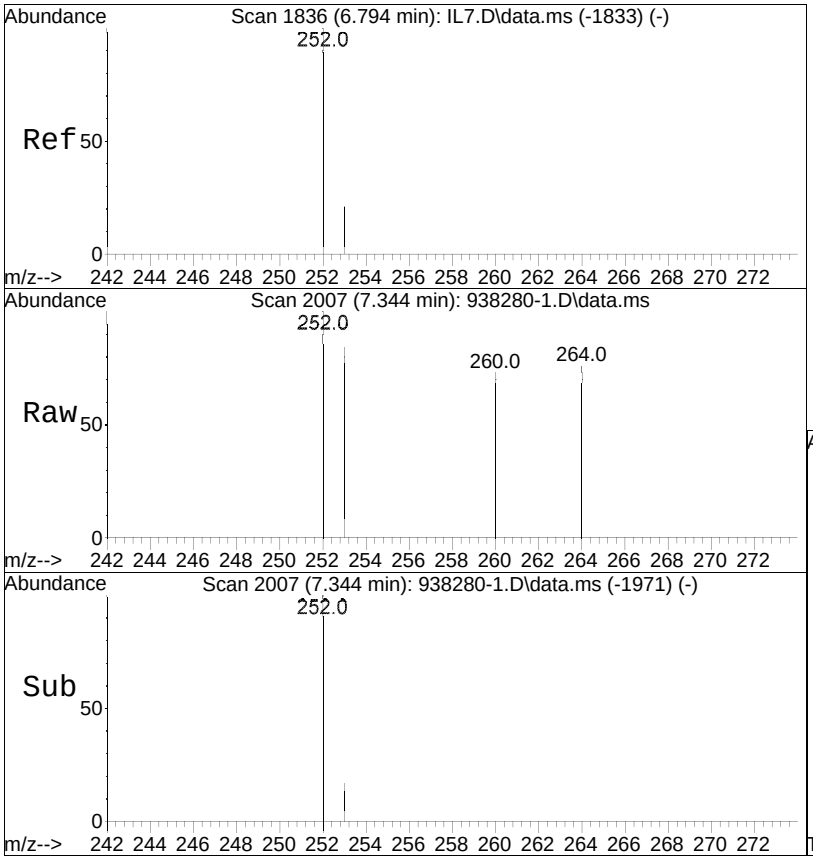


#37
Benzo[b]fluoranthene
Concen: 2.95 ng/ml M7
RT: 7.313 min Scan# 1997
Delta R.T. 0.007 min
Lab File: 938280-1.D
Acq: 24 Jun 2024 12:02 pm

Tgt Ion:252 Resp: 14

Ion	Ratio	Lower	Upper
252	100		
253	28.6	17.1	25.7#

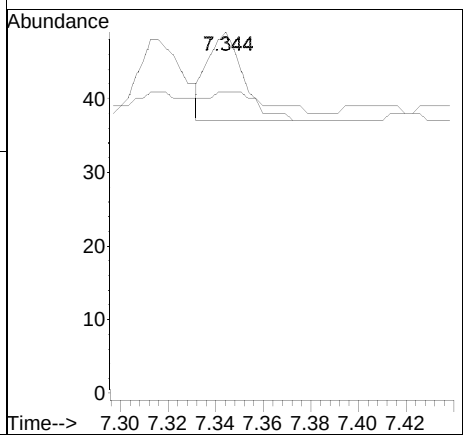


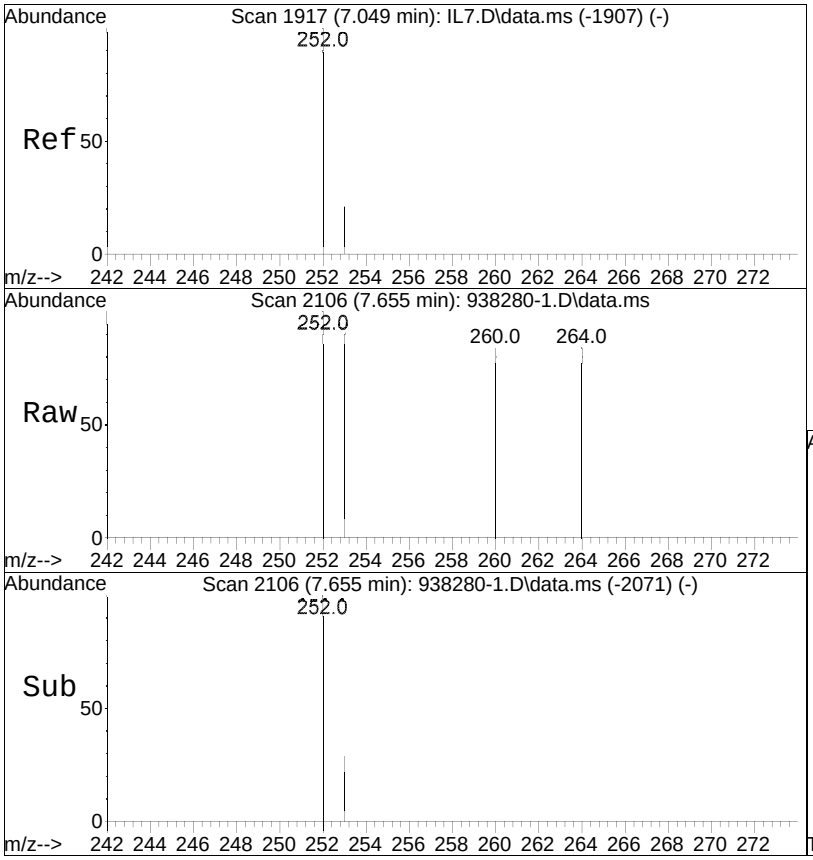


#38
Benzo[k]fluoranthene
Concen: 2.94 ng/ml M7
RT: 7.344 min Scan# 2007
Delta R.T. 0.013 min
Lab File: 938280-1.D
Acq: 24 Jun 2024 12:02 pm

Tgt Ion:252 Resp: 13

Ion	Ratio	Lower	Upper
252	100		
253	30.8	17.3	25.9#

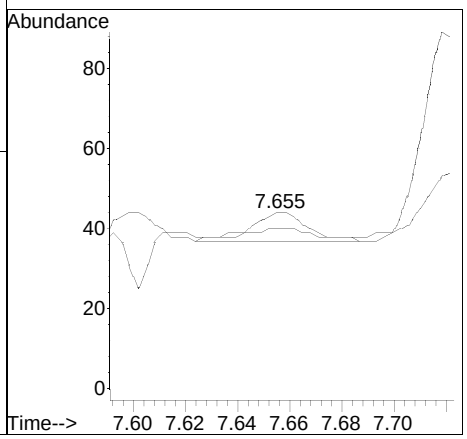


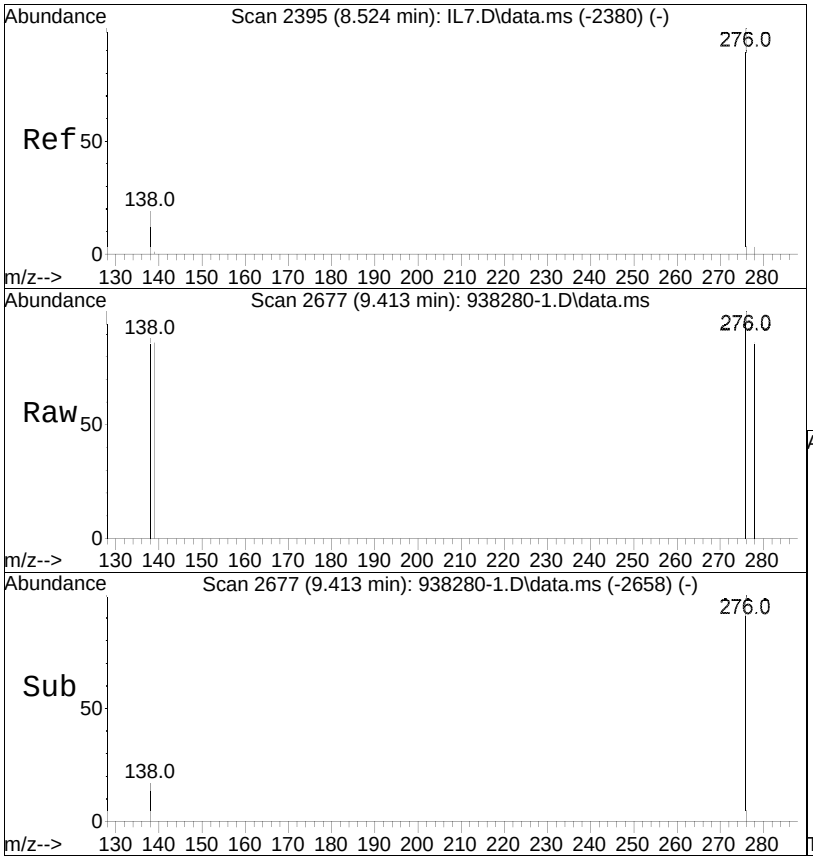


#39
Benzo[a]pyrene
Concen: 2.39 ng/ml M7
RT: 7.655 min Scan# 2106
Delta R.T. 0.010 min
Lab File: 938280-1.D
Acq: 24 Jun 2024 12:02 pm

Tgt Ion:252 Resp: 10

Ion	Ratio	Lower	Upper
252	100		
253	20.0	17.3	25.9

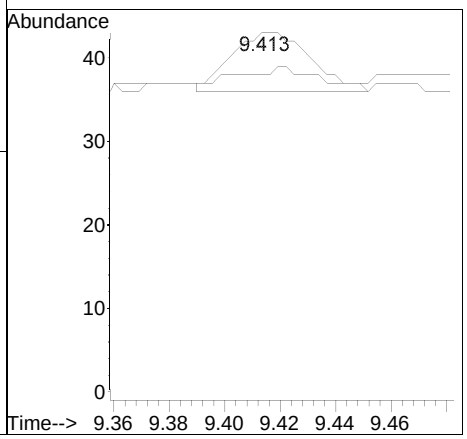




#42
Benzo[g,h,i]perylene
Concen: 3.22 ng/ml M7
RT: 9.413 min Scan# 2677
Delta R.T. 0.007 min
Lab File: 938280-1.D
Acq: 24 Jun 2024 12:02 pm

Tgt Ion:276 Resp: 14

Ion	Ratio	Lower	Upper
276	100		
138	21.4	14.8	22.2

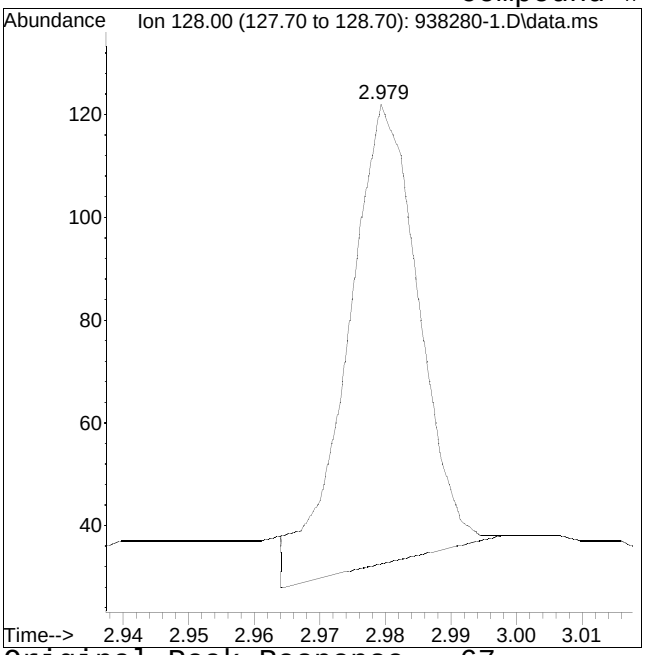


Manual Integration Report

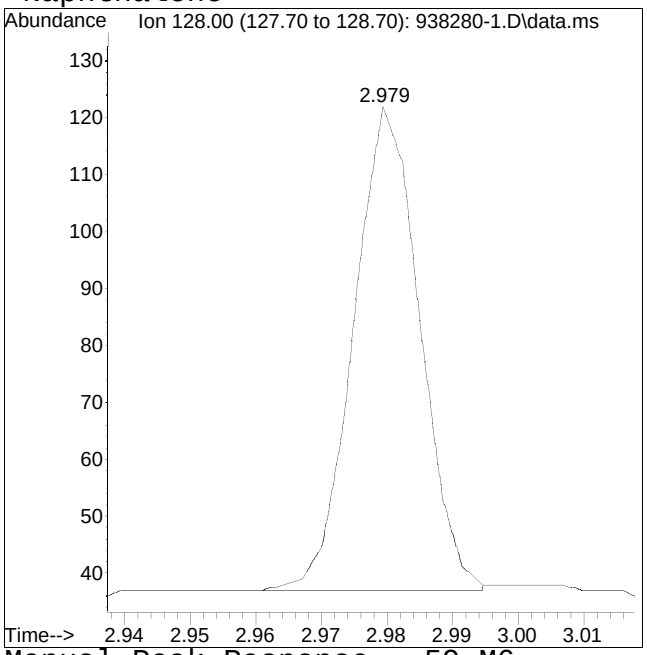
Data Path : I:\8270SIM\SV128\240624\
Data File : 938280-1.D
Date Inj'd : 6/24/2024 12:02 pm
Sample : WG1938280-1,32,,jjw

QMethod : SIM-LVI_231211_sv128.M
Operator : SV128:jjw
Instrument : SV128
Quant Date : 6/24/2024 12:15 pm

Compound #9: Naphthalene



Original Peak Response = 67



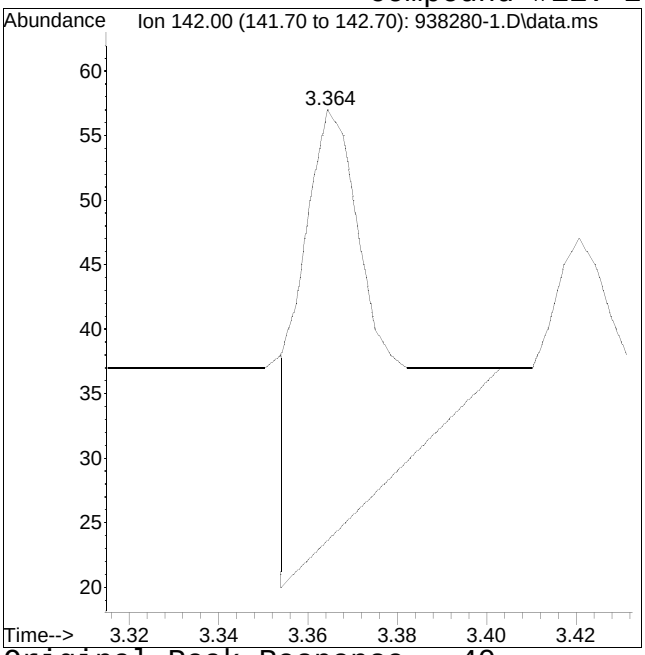
Manual Peak Response = 59 M6

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

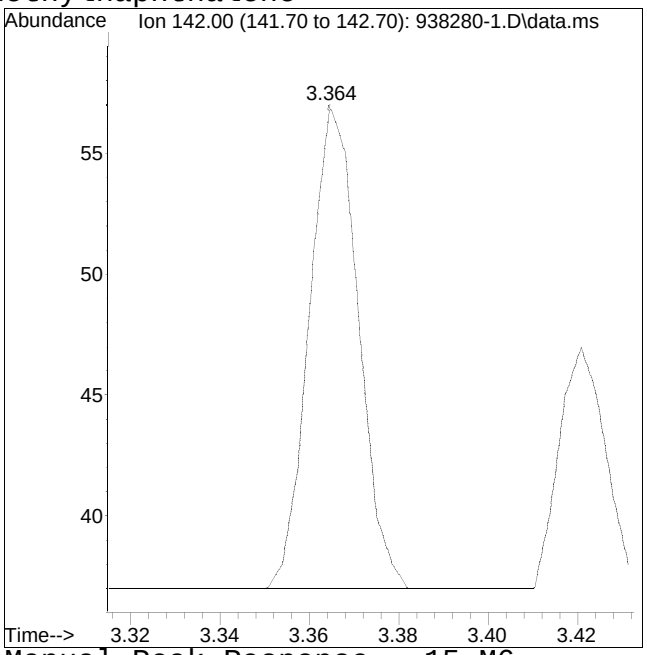
Manual Integration Report

Data Path : I:\8270SIM\SV128\240624\ QMethod : SIM-LVI_231211_sv128.M
Data File : 938280-1.D Operator : SV128:jjw
Date Inj'd : 6/24/2024 12:02 pm Instrument : SV128
Sample : WG1938280-1,32,,jjw Quant Date : 6/24/2024 12:15 pm

Compound #11: 2-Methylnaphthalene



Original Peak Response = 40



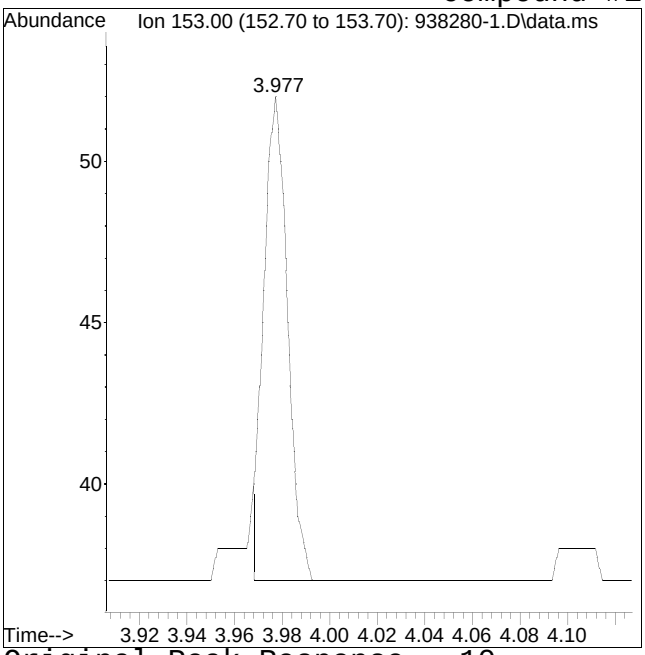
Manual Peak Response = 15 M6

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

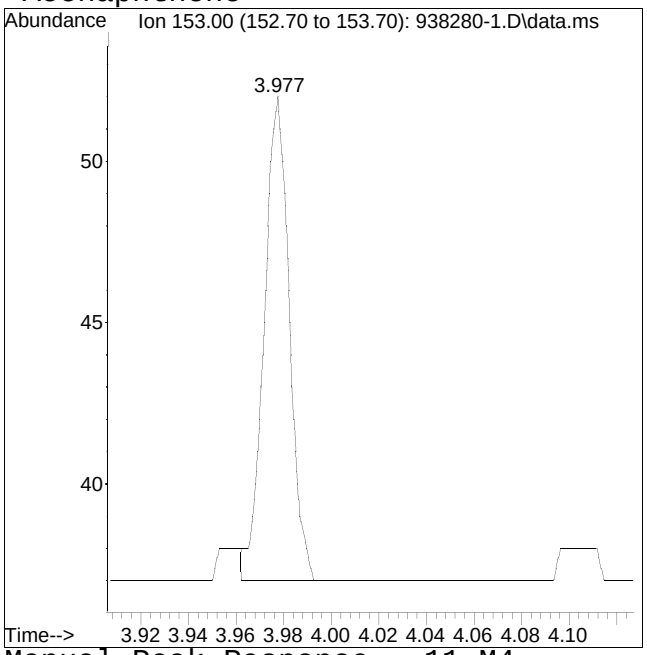
Manual Integration Report

Data Path : I:\8270SIM\SV128\240624\ QMethod : SIM-LVI_231211_sv128.M
Data File : 938280-1.D Operator : SV128:jjw
Date Inj'd : 6/24/2024 12:02 pm Instrument : SV128
Sample : WG1938280-1,32,,jjw Quant Date : 6/24/2024 12:15 pm

Compound #18: Acenaphthene



Original Peak Response = 10



Manual Peak Response = 11 M4

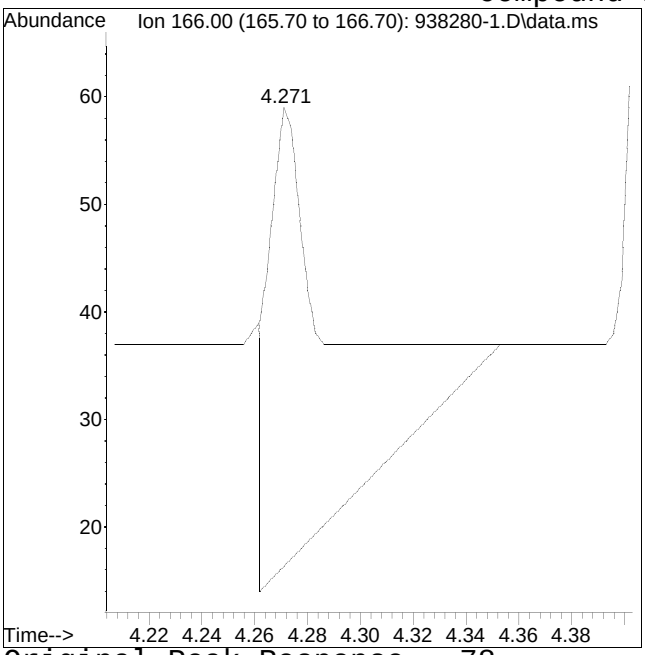
M4 = Poor automated baseline construction.

Manual Integration Report

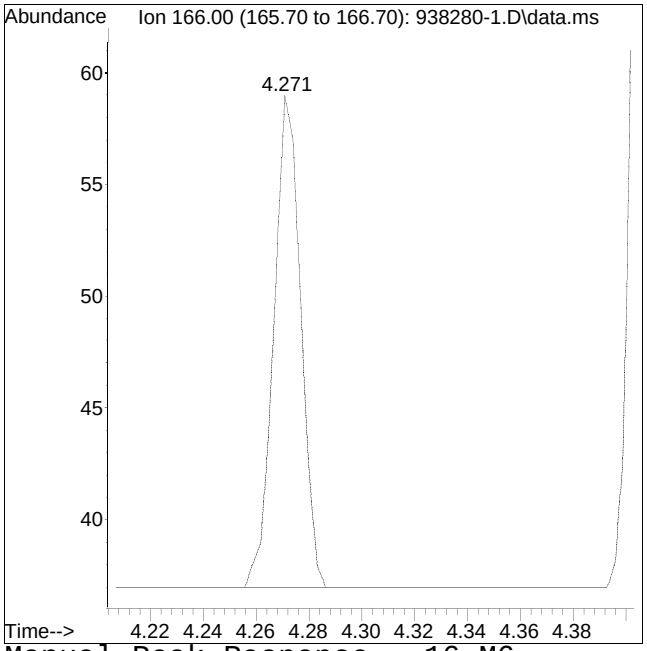
Data Path : I:\8270SIM\SV128\240624\
Data File : 938280-1.D
Date Inj'd : 6/24/2024 12:02 pm
Sample : WG1938280-1,32,,jjw

QMethod : SIM-LVI_231211_sv128.M
Operator : SV128:jjw
Instrument : SV128
Quant Date : 6/24/2024 12:15 pm

Compound #20: Fluorene



Original Peak Response = 78



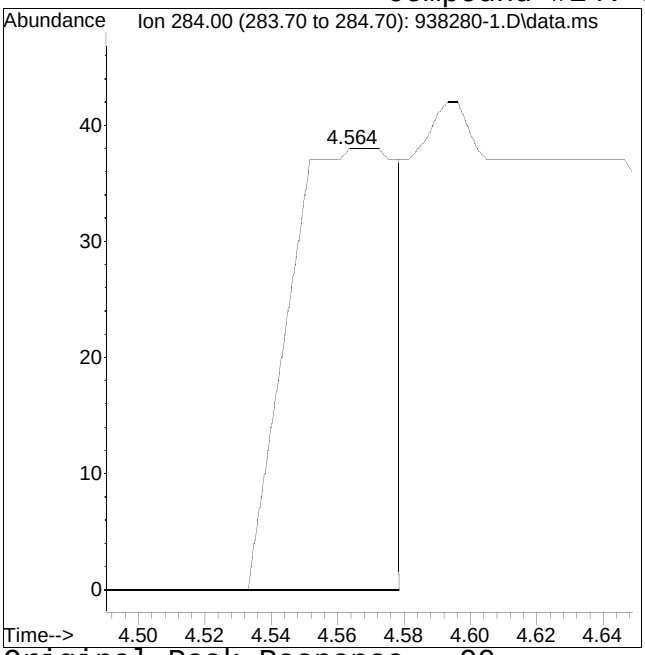
Manual Peak Response = 16 M6

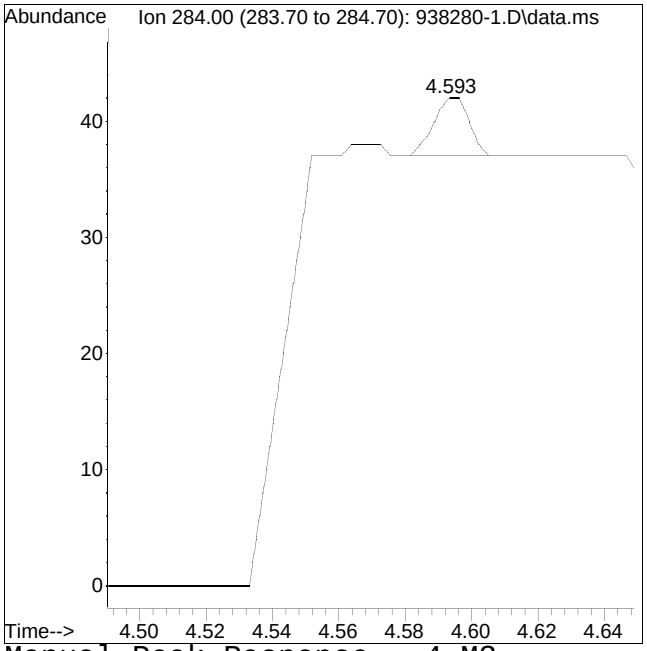
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

Data Path : I:\8270SIM\SV128\240624\ QMethod : SIM-LVI_231211_sv128.M
Data File : 938280-1.D Operator : SV128:jjw
Date Inj'd : 6/24/2024 12:02 pm Instrument : SV128
Sample : WG1938280-1,32,,jjw Quant Date : 6/24/2024 12:15 pm

Compound #24: Hexachlorobenzene





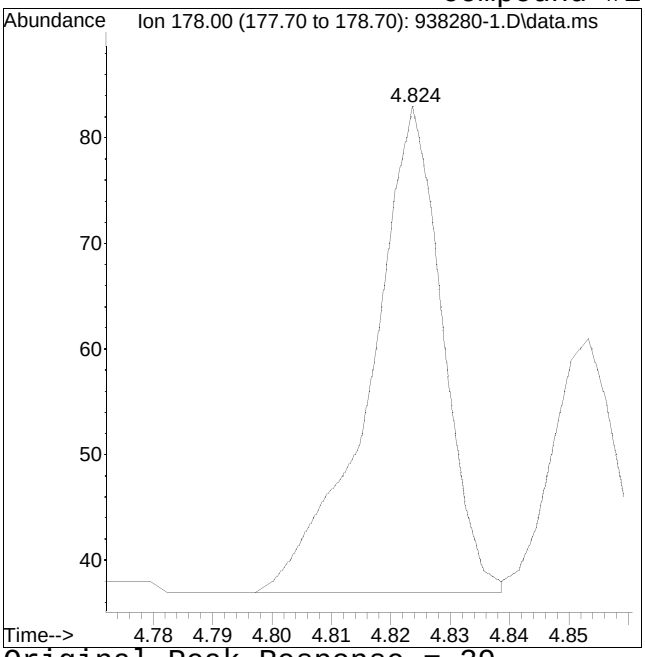
Original Peak Response = 99 Manual Peak Response = 4 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

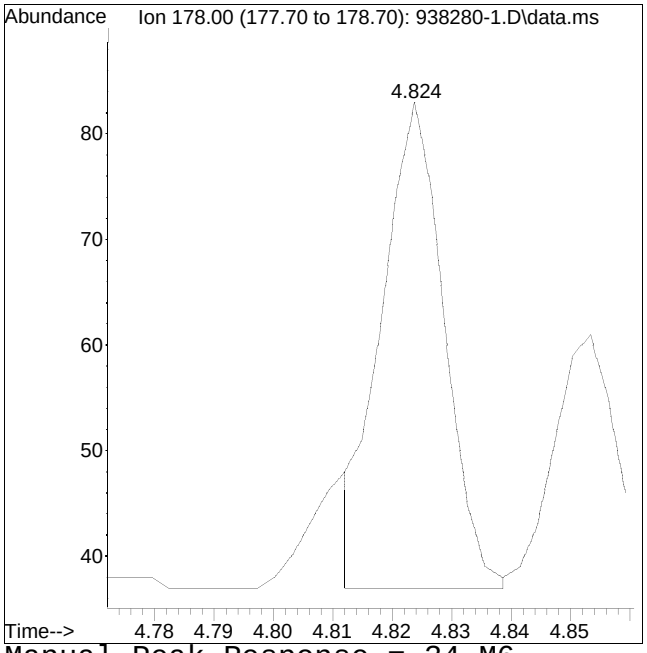
Data Path : I:\8270SIM\SV128\240624\
Data File : 938280-1.D
Date Inj'd : 6/24/2024 12:02 pm
Sample : WG1938280-1,32,,jjw

QMethod : SIM-LVI_231211_sv128.M
Operator : SV128:jjw
Instrument : SV128
Quant Date : 6/24/2024 12:15 pm

Compound #26: Phenanthrene



Original Peak Response = 39



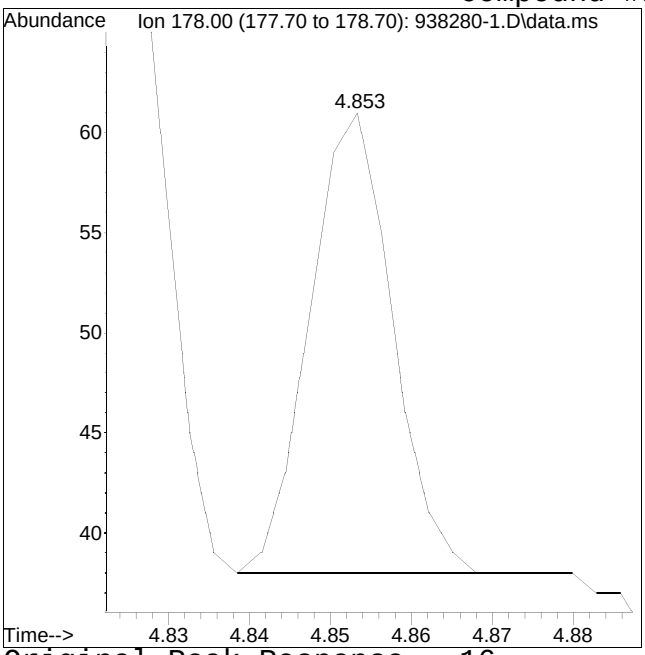
Manual Peak Response = 34 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

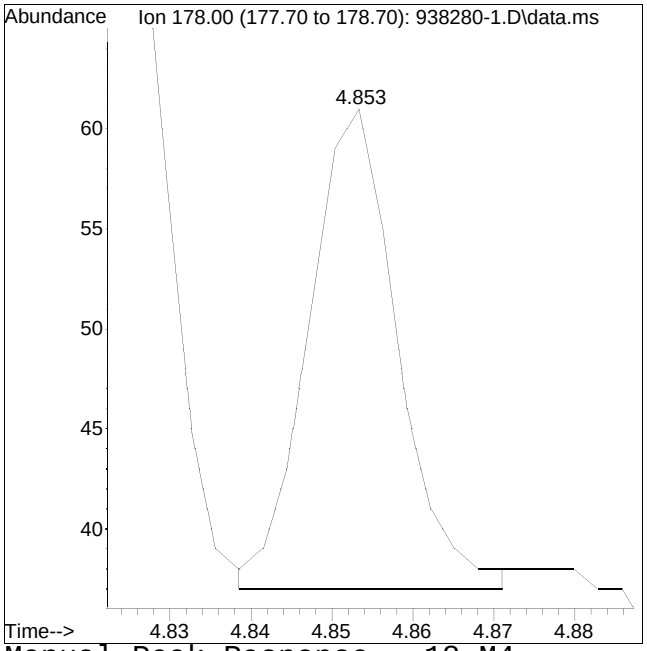
Manual Integration Report

Data Path : I:\8270SIM\SV128\240624\ QMethod : SIM-LVI_231211_sv128.M
Data File : 938280-1.D Operator : SV128:jjw
Date Inj'd : 6/24/2024 12:02 pm Instrument : SV128
Sample : WG1938280-1,32,,jjw Quant Date : 6/24/2024 12:15 pm

Compound #27: Anthracene



Original Peak Response = 16



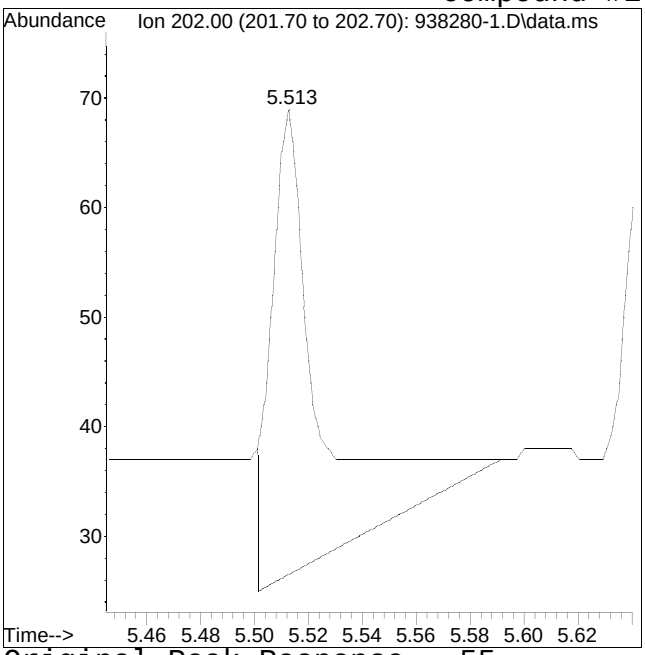
Manual Peak Response = 18 M4

M4 = Poor automated baseline construction.

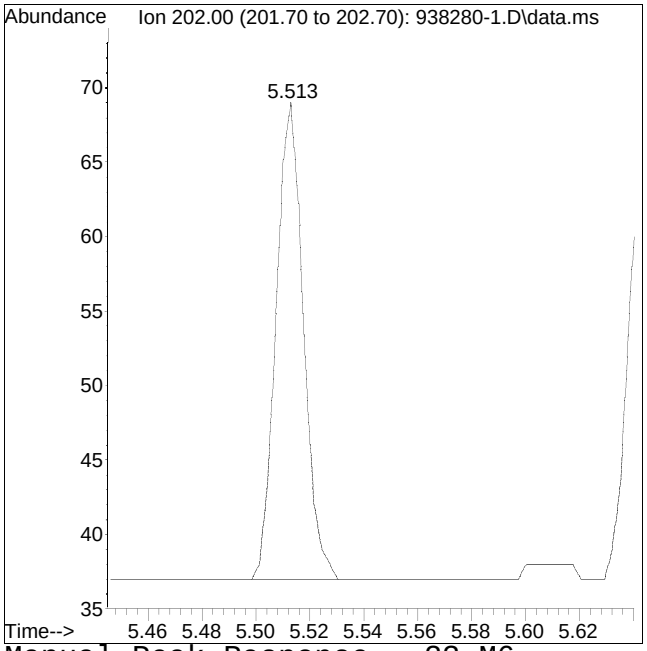
Manual Integration Report

Data Path : I:\8270SIM\SV128\240624\ QMethod : SIM-LVI_231211_sv128.M
Data File : 938280-1.D Operator : SV128:jjw
Date Inj'd : 6/24/2024 12:02 pm Instrument : SV128
Sample : WG1938280-1,32,,jjw Quant Date : 6/24/2024 12:15 pm

Compound #28: Fluoranthene



Original Peak Response = 55



Manual Peak Response = 23 M6

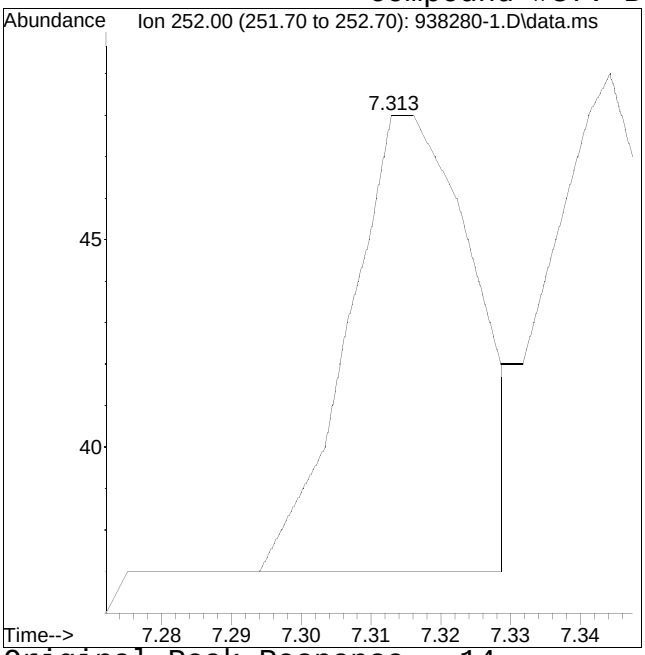
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

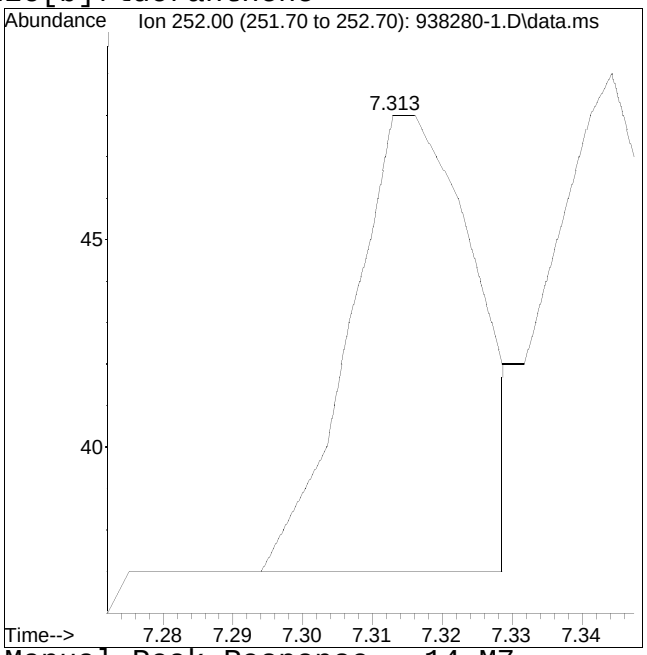
Data Path : I:\8270SIM\SV128\240624\
Data File : 938280-1.D
Date Inj'd : 6/24/2024 12:02 pm
Sample : WG1938280-1,32,,jjw

QMethod : SIM-LVI_231211_sv128.M
Operator : SV128:jjw
Instrument : SV128
Quant Date : 6/24/2024 12:15 pm

Compound #37: Benzo[b]fluoranthene



Original Peak Response = 14



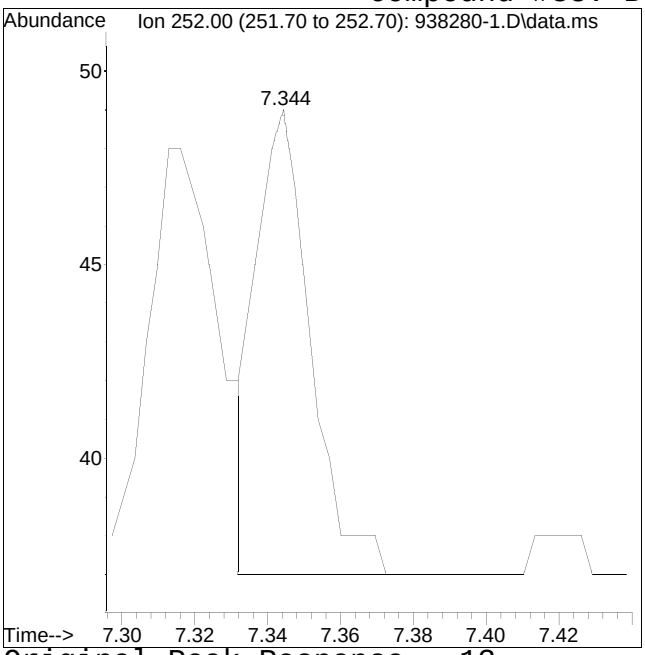
Manual Peak Response = 14 M7

M7 = A qualifier ion was manually integrated (only for GC/MS data).

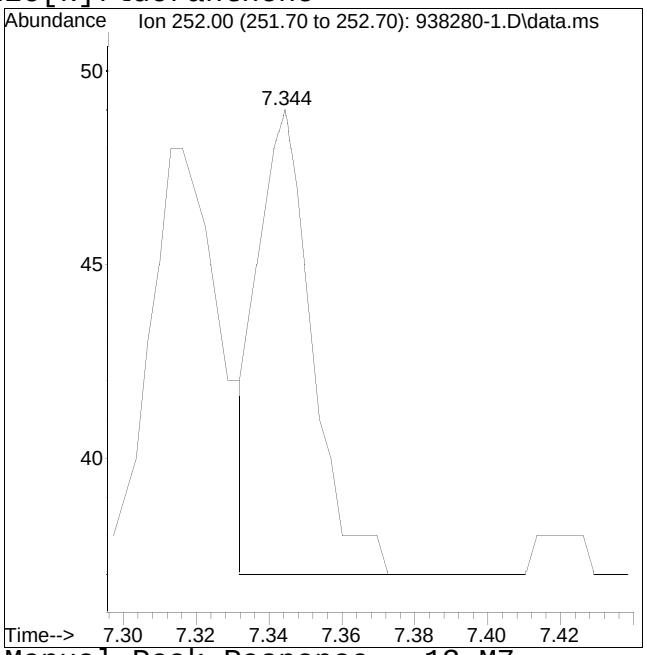
Manual Integration Report

Data Path : I:\8270SIM\SV128\240624\ QMethod : SIM-LVI_231211_sv128.M
Data File : 938280-1.D Operator : SV128:jjw
Date Inj'd : 6/24/2024 12:02 pm Instrument : SV128
Sample : WG1938280-1,32,,jjw Quant Date : 6/24/2024 12:15 pm

Compound #38: Benzo[k]fluoranthene



Original Peak Response = 13



Manual Peak Response = 13 M7

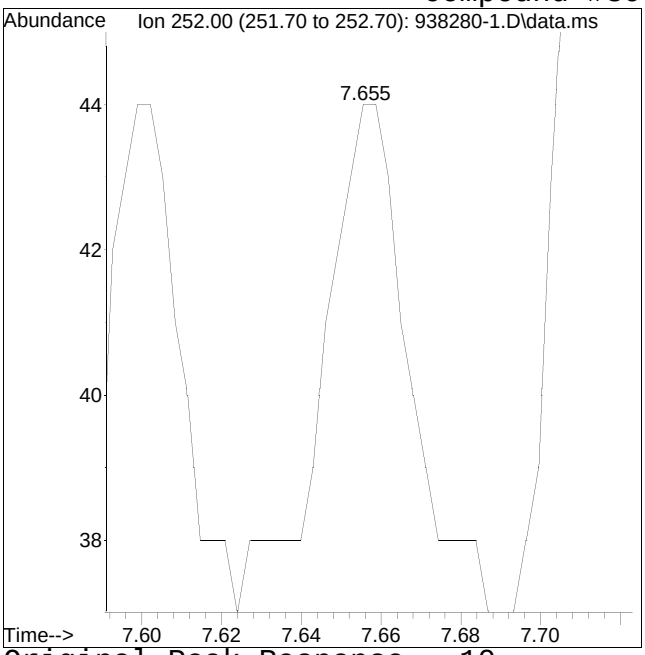
M7 = A qualifier ion was manually integrated (only for GC/MS data).

Manual Integration Report

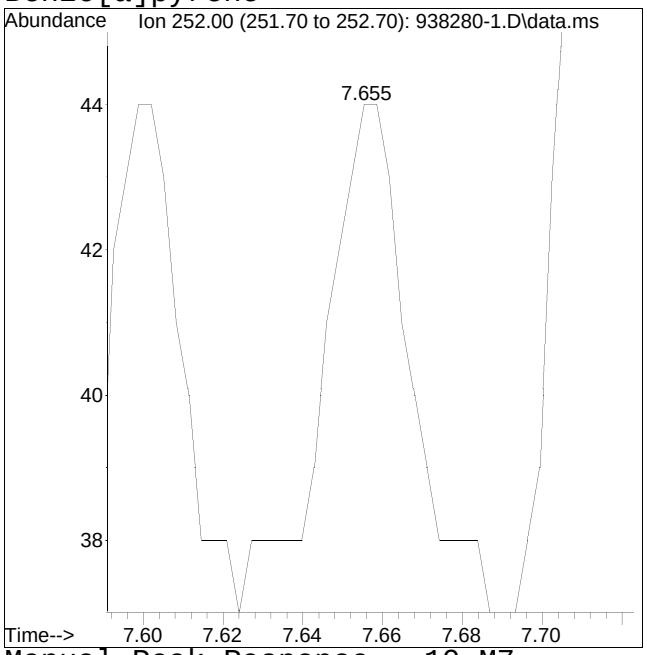
Data Path : I:\8270SIM\SV128\240624\
Data File : 938280-1.D
Date Inj'd : 6/24/2024 12:02 pm
Sample : WG1938280-1,32,,jjw

QMethod : SIM-LVI_231211_sv128.M
Operator : SV128:jjw
Instrument : SV128
Quant Date : 6/24/2024 12:15 pm

Compound #39: Benzo[a]pyrene



Original Peak Response = 10



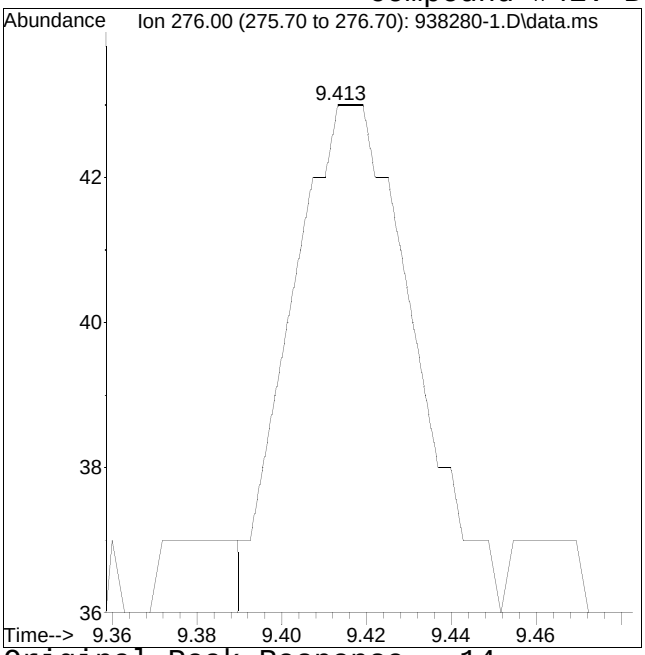
Manual Peak Response = 10 M7

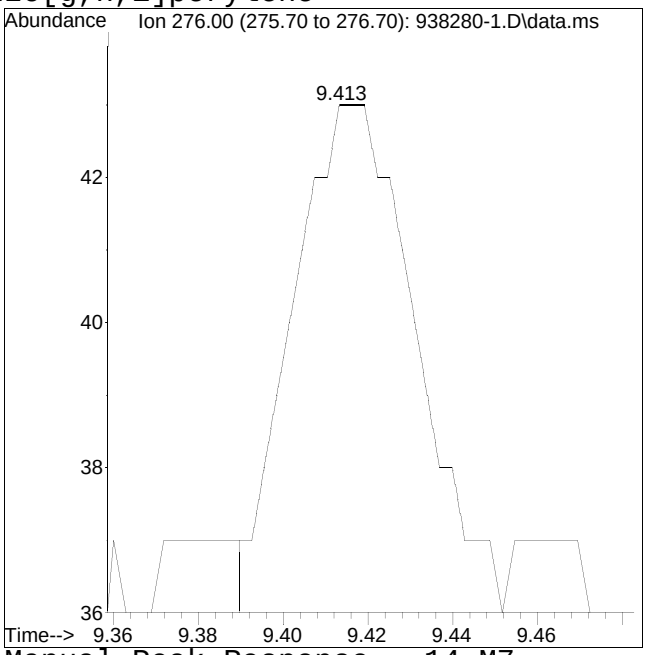
M7 = A qualifier ion was manually integrated (only for GC/MS data).

Manual Integration Report

Data Path : I:\8270SIM\SV128\240624\ QMethod : SIM-LVI_231211_sv128.M
Data File : 938280-1.D Operator : SV128:jjw
Date Inj'd : 6/24/2024 12:02 pm Instrument : SV128
Sample : WG1938280-1,32,,jjw Quant Date : 6/24/2024 12:15 pm

Compound #42: Benzo[g,h,i]perylene





Original Peak Response = 14 Manual Peak Response = 14 M7
M7 = A qualifier ion was manually integrated (only for GC/MS data).

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV128\240625\
Data File : 938725-1.D
Acq On : 25 Jun 2024 10:45 am
Operator : SV128:rp
Sample : WG1938725-1,32,,jjw
Misc : WG1939038,WG1938725,ical20676
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 25 12:22:19 2024
Quant Method : I:\8270sim\sv128\240625\SIM-LVI_231211_sv128.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Jun 25 10:22:00 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270sim\sv128\240625\ccv0625.D
Sub List : DEFAULT - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.292	152	3047	4000.000	ng/ml	-0.01
Standard Area 1 = 3868			Recovery = 78.77%			
8) Naphthalene-d8	2.969	136	10623	4000.000	ng/ml	0.00
Standard Area 1 = 14097			Recovery = 75.36%			
17) Acenaphthene-d10	3.962	164	6184M6	4000.000	ng/ml	0.00
Standard Area 1 = 8577			Recovery = 72.10%			
22) Phenanthrene-d10	4.811	188	14074	4000.000	ng/ml	0.00
Standard Area 1 = 20055			Recovery = 70.18%			
31) Chrysene-d12	6.397	240	13105	4000.000	ng/ml	0.00
Standard Area 1 = 19835			Recovery = 66.07%			
36) Perylene-d12	7.712	264	14863	4000.000	ng/ml	0.01
Standard Area 1 = 22257			Recovery = 66.78%			
System Monitoring Compounds						
2) 2-Fluorophenol	1.679	112	2413	3144.855	ng/ml	-0.01
Spiked Amount 5000.000	Range 15 - 110		Recovery = 62.90%			
3) Phenol-d6	2.095	99	2283M6	2545.964	ng/ml	-0.01
Spiked Amount 5000.000	Range 15 - 110		Recovery = 50.92%			
7) Nitrobenzene-d5	2.578	82	1741	2402.462	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 96.10%			
13) 2-Fluorobiphenyl	3.575	172	4319	1917.144	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 76.69%			
21) 2,4,6-Tribromophenol	4.411	330	1078	3488.401	ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 69.77%			
30) 4-Terphenyl-d14	5.736	244	5676	1935.798	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 77.43%			
Target Compounds						Qvalue
6) Hexachloroethane	0.000		0	N.D.		
9) Naphthalene	2.978	128	25M7	9.177	ng/ml	
10) Hexachlorobutadiene	0.000		0	N.D.		
11) 2-Methylnaphthalene	0.000		0	N.D.		
14) 2-Chloronaphthalene	0.000		0	N.D.		
16) Acenaphthylene	0.000		0	N.D.	d	
18) Acenaphthene	0.000		0	N.D.		
20) Fluorene	0.000		0	N.D.	d	
24) Hexachlorobenzene	0.000		0	N.D.	d	

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV128\240625\
Data File : 938725-1.D
Acq On : 25 Jun 2024 10:45 am
Operator : SV128:rp
Sample : WG1938725-1,32,,jjw
Misc : WG1939038,WG1938725,ical20676
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 25 12:22:19 2024
Quant Method : I:\8270sim\sv128\240625\SIM-LVI_231211_sv128.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Jun 25 10:22:00 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270sim\sv128\240625\ccv0625.D
Sub List : DEFAULT - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
25) Pentachlorophenol	0.000		0	N.D.		
26) Phenanthrene	0.000		0	N.D.	d	
27) Anthracene	0.000		0	N.D.	d	
28) Fluoranthene	5.512	202	9M6	2.152	ng/ml	
29) Pyrene	5.643	202	11M7	2.543	ng/ml	
32) Benzo[a]anthracene	6.397	228	49M6	3.896	ng/ml	
34) Chrysene	6.414	228	5M3	1.107	ng/ml	
37) Benzo[b]fluoranthene	0.000		0	N.D.	d	
38) Benzo[k]fluoranthene	0.000		0	N.D.	d	
39) Benzo[a]pyrene	0.000		0	N.D.	d	
40) Indeno[1,2,3-cd]pyrene	0.000		0	N.D.		
41) Dibenzo[a,h]anthracene	0.000		0	N.D.		
42) Benzo[g,h,i]perylene	0.000		0	N.D.		

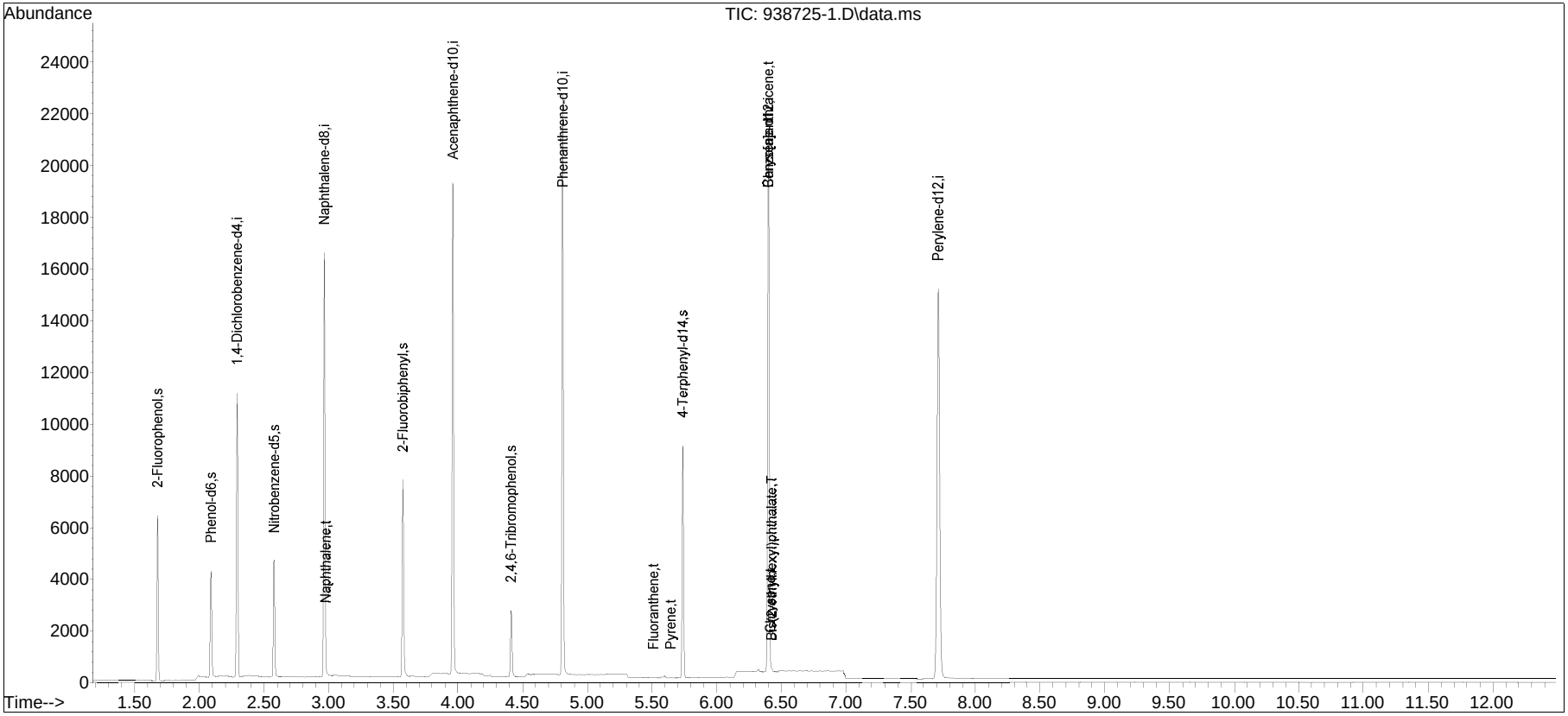
(#) = qualifier out of range (m) = manual integration (+) = signals summed

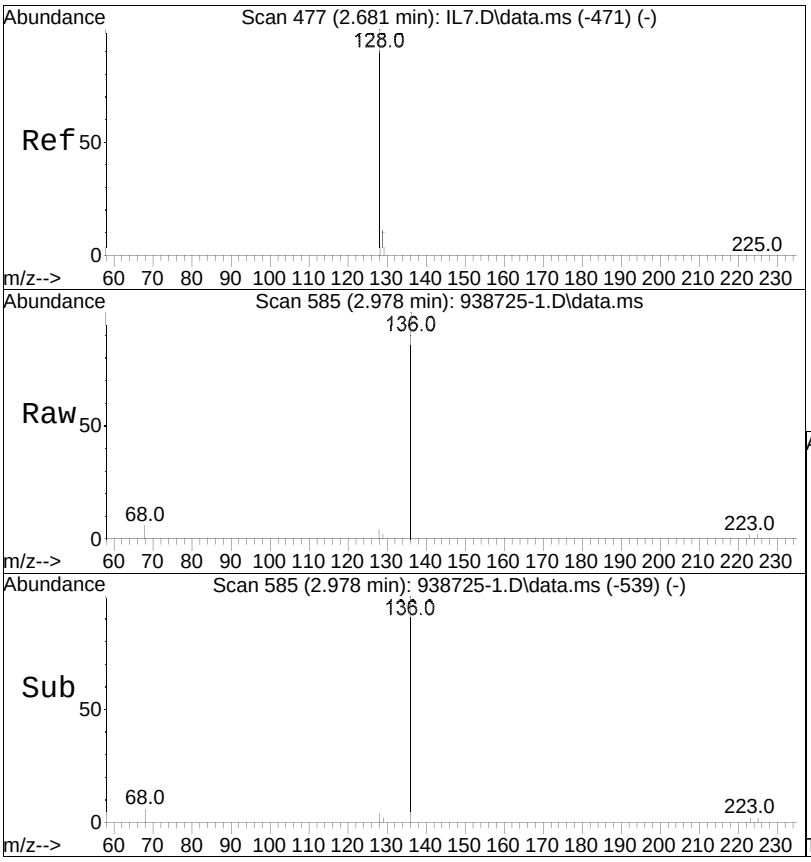
Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV128\240625\
Data File : 938725-1.D
Acq On : 25 Jun 2024 10:45 am
Operator : SV128:rp
Sample : WG1938725-1,32,,jjw
Misc : WG1939038,WG1938725,ical20676
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 25 12:22:19 2024
Quant Method : I:\8270sim\sv128\240625\SIM-LVI_231211_sv128.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Jun 25 10:22:00 2024
Response via : Initial Calibration

Sub List : DEFAULT - All compounds listedv0625.D•

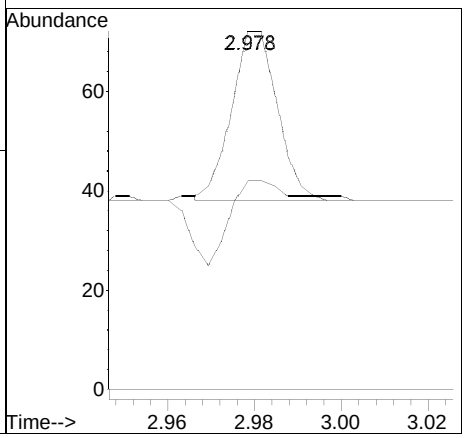


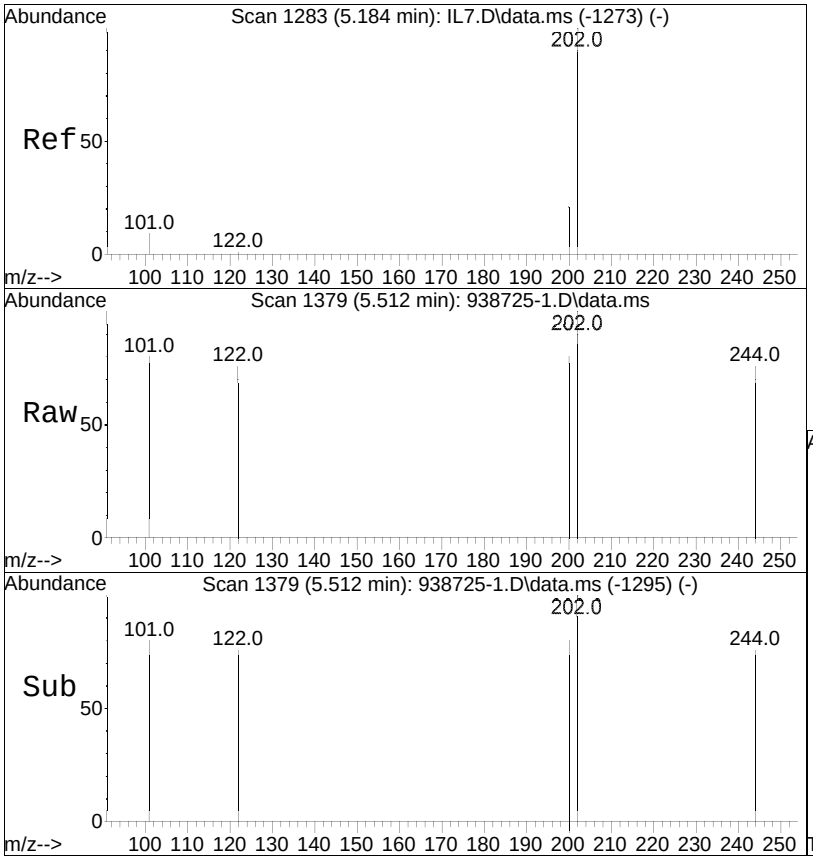


#9
Naphthalene
Concen: 9.18 ng/ml M7
RT: 2.978 min Scan# 585
Delta R.T. -0.009 min
Lab File: 938725-1.D
Acq: 25 Jun 2024 10:45 am

Tgt Ion:128 Resp: 25

Ion	Ratio	Lower	Upper
128	100		
129	8.0	8.8	13.2#
127	0.0	0.0	0.0

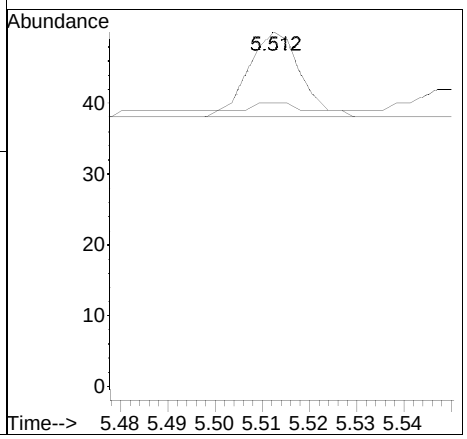


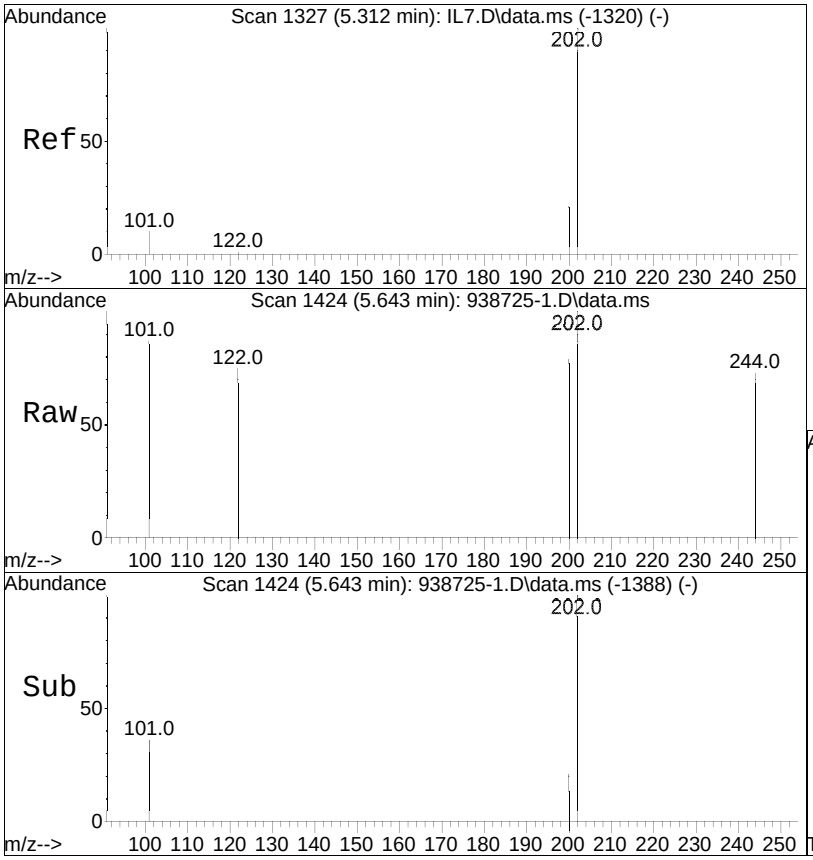


#28
Fluoranthene
Concen: 2.15 ng/ml M6
RT: 5.512 min Scan# 1379
Delta R.T. 0.000 min
Lab File: 938725-1.D
Acq: 25 Jun 2024 10:45 am

Tgt Ion:202 Resp: 9

Ion	Ratio	Lower	Upper
202	100		
101	11.1	7.2	10.8#

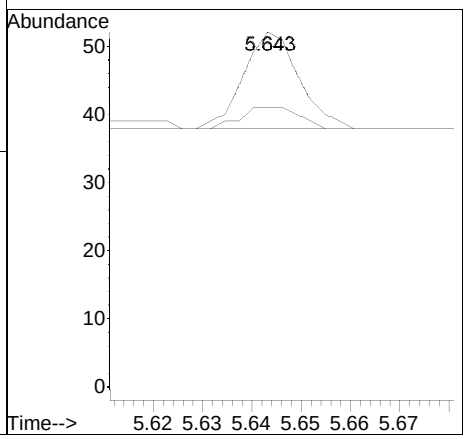


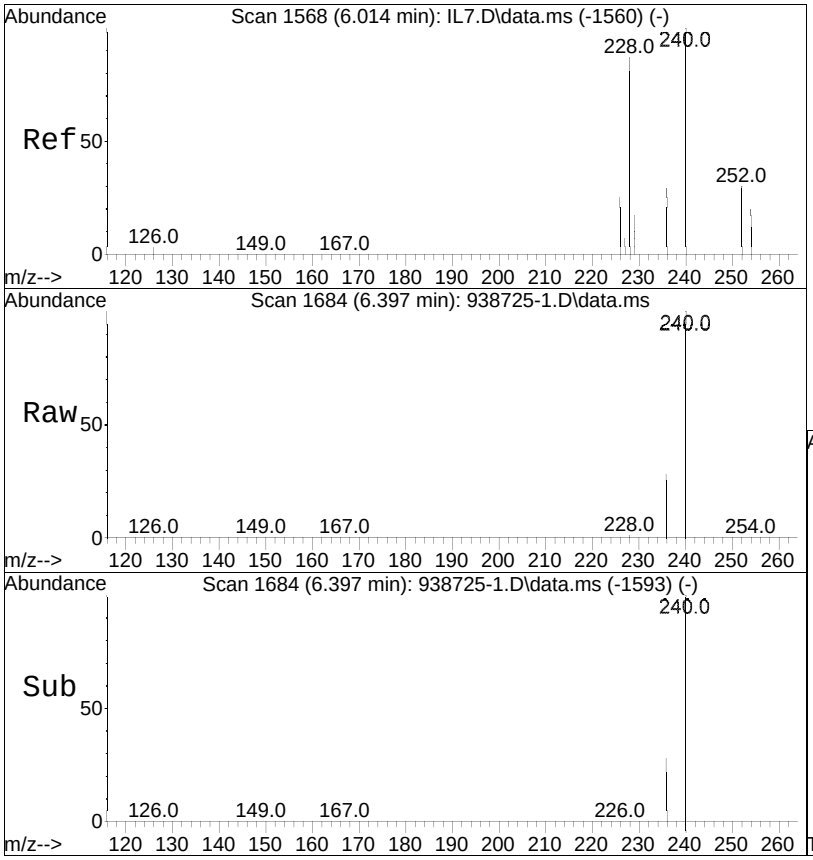


#29
Pyrene
Concen: 2.54 ng/ml M7
RT: 5.643 min Scan# 1424
Delta R.T. 0.000 min
Lab File: 938725-1.D
Acq: 25 Jun 2024 10:45 am

Tgt Ion:202 Resp: 11

Ion	Ratio	Lower	Upper
202	100		
200	18.2	17.7	26.5

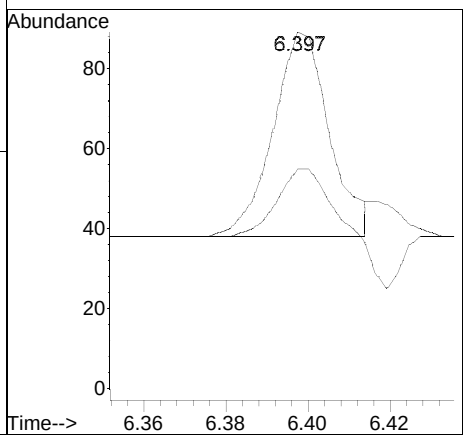


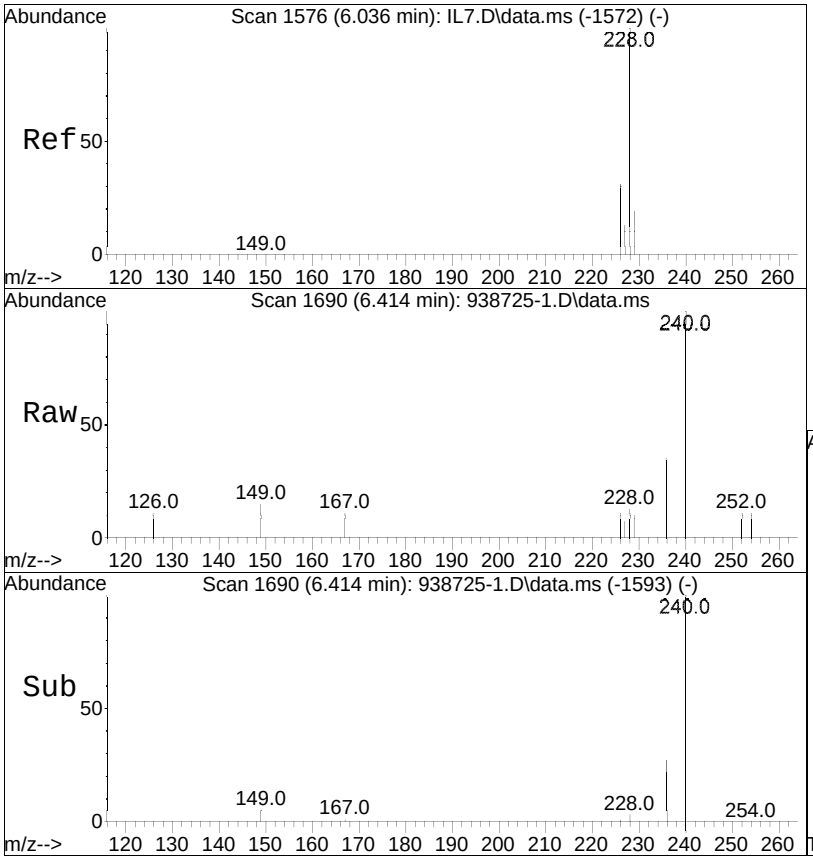


#32
Benzo[a]anthracene
Concen: 3.90 ng/ml M6
RT: 6.397 min Scan# 1684
Delta R.T. 0.014 min
Lab File: 938725-1.D
Acq: 25 Jun 2024 10:45 am

Tgt Ion:228 Resp: 49

Ion	Ratio	Lower	Upper
228	100		
229	34.7	15.7	23.5#

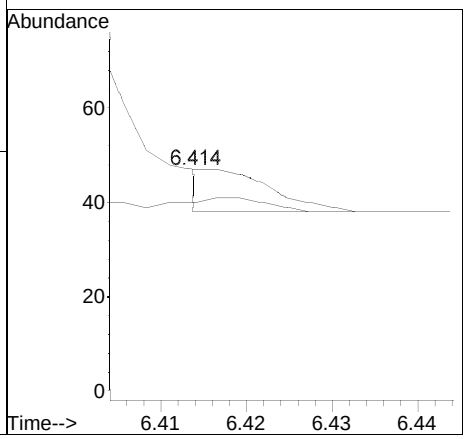




#34
Chrysene
Concen: 1.11 ng/ml M3
RT: 6.414 min Scan# 1690
Delta R.T. 0.005 min
Lab File: 938725-1.D
Acq: 25 Jun 2024 10:45 am

Tgt Ion:228 Resp: 5

Ion	Ratio	Lower	Upper
228	100		
226	60.0	24.6	36.8#

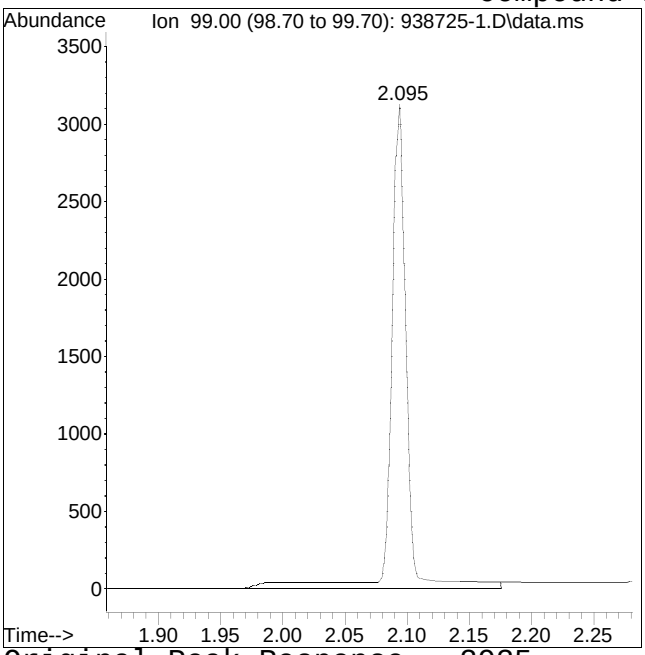


Manual Integration Report

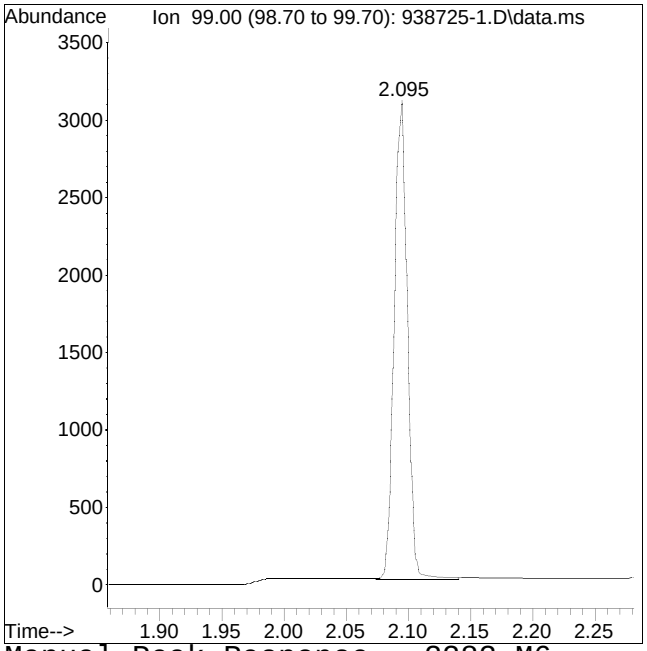
Data Path : I:\8270SIM\SV128\240625\
Data File : 938725-1.D
Date Inj'd : 6/25/2024 10:45 am
Sample : WG1938725-1,32,,jjw

QMethod : SIM-LVI_231211_sv128.M
Operator : SV128:rp
Instrument : SV128
Quant Date : 6/25/2024 10:58 am

Compound #3: Phenol-d6



Original Peak Response = 2935



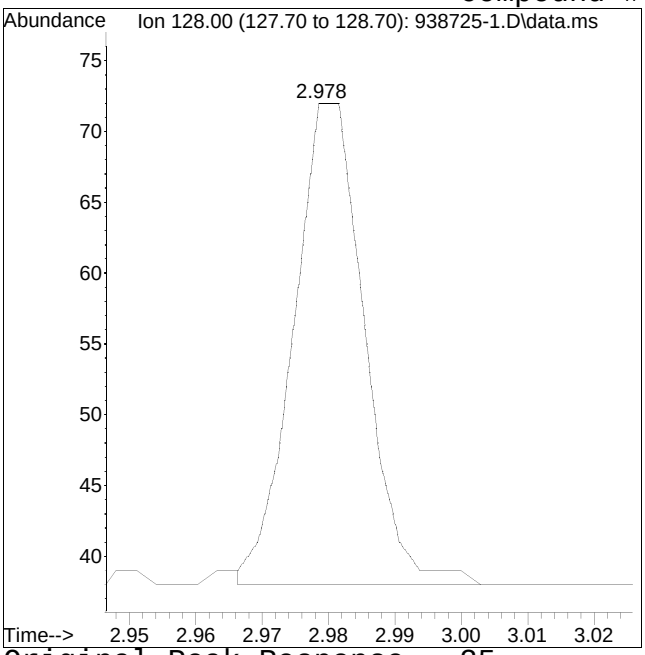
Manual Peak Response = 2283 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

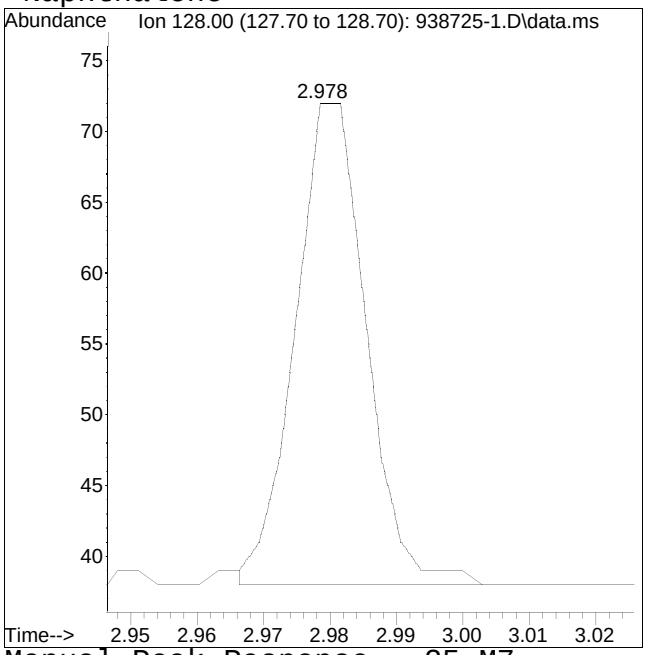
Manual Integration Report

Data Path : I:\8270SIM\SV128\240625\ QMethod : SIM-LVI_231211_sv128.M
Data File : 938725-1.D Operator : SV128:rp
Date Inj'd : 6/25/2024 10:45 am Instrument : SV128
Sample : WG1938725-1,32,,jjw Quant Date : 6/25/2024 10:58 am

Compound #9: Naphthalene



Original Peak Response = 25



Manual Peak Response = 25 M7

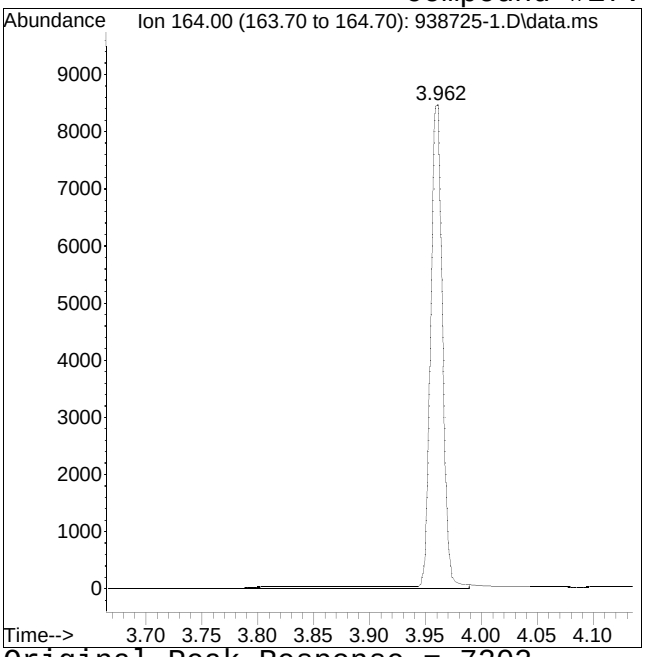
M7 = A qualifier ion was manually integrated (only for GC/MS data).

Manual Integration Report

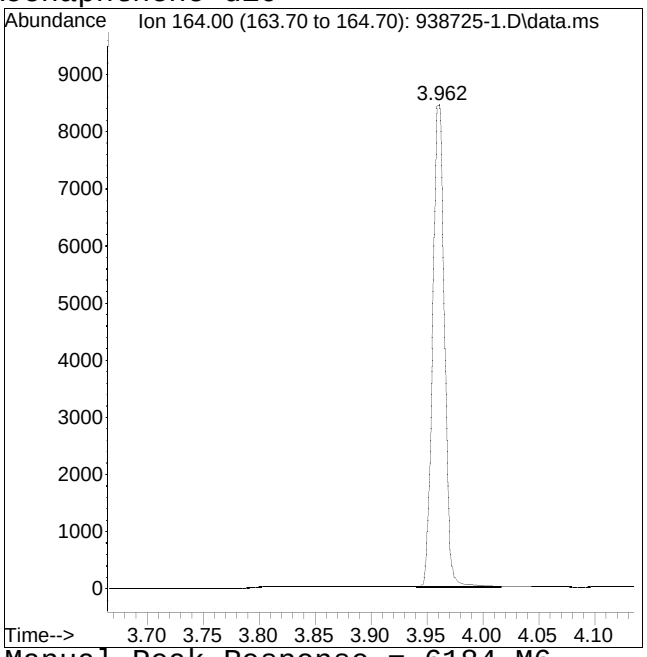
Data Path : I:\8270SIM\SV128\240625\
Data File : 938725-1.D
Date Inj'd : 6/25/2024 10:45 am
Sample : WG1938725-1,32,,jjw

QMethod : SIM-LVI_231211_sv128.M
Operator : SV128:rp
Instrument : SV128
Quant Date : 6/25/2024 10:58 am

Compound #17: Acenaphthene-d10



Original Peak Response = 7202



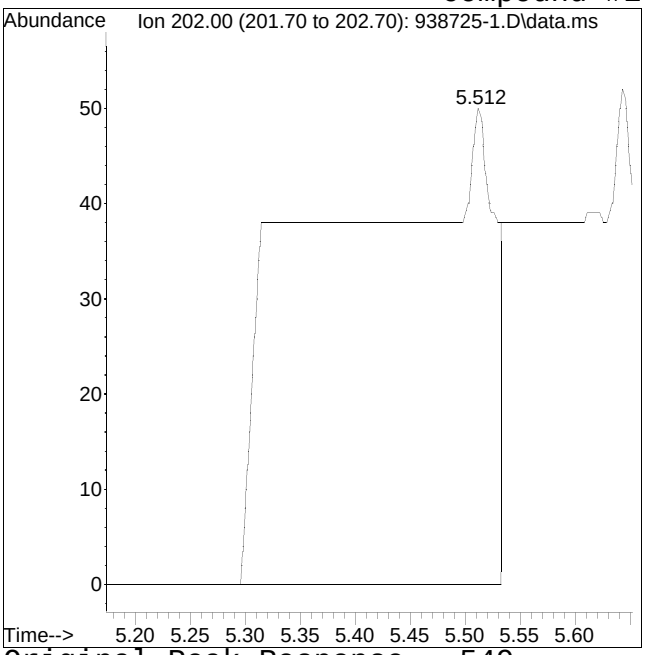
Manual Peak Response = 6184 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

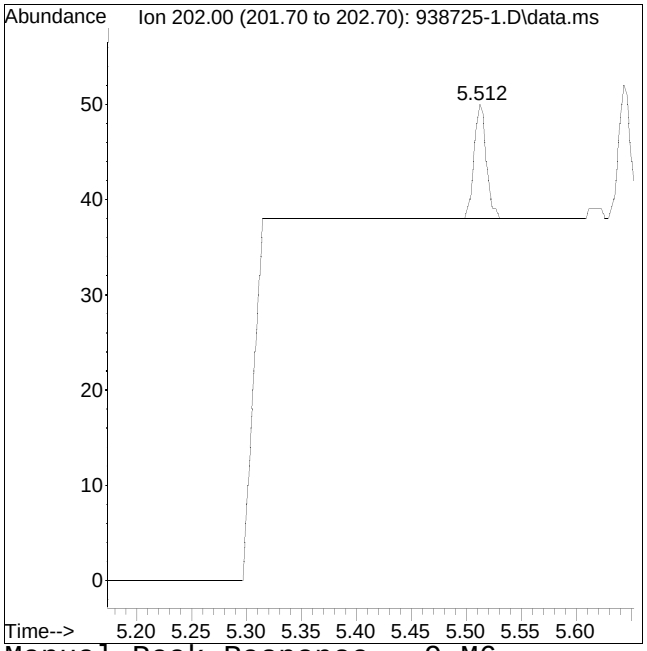
Manual Integration Report

Data Path : I:\8270SIM\SV128\240625\ QMethod : SIM-LVI_231211_sv128.M
Data File : 938725-1.D Operator : SV128:rp
Date Inj'd : 6/25/2024 10:45 am Instrument : SV128
Sample : WG1938725-1,32,,jjw Quant Date : 6/25/2024 10:58 am

Compound #28: Fluoranthene



Original Peak Response = 549



Manual Peak Response = 9 M6

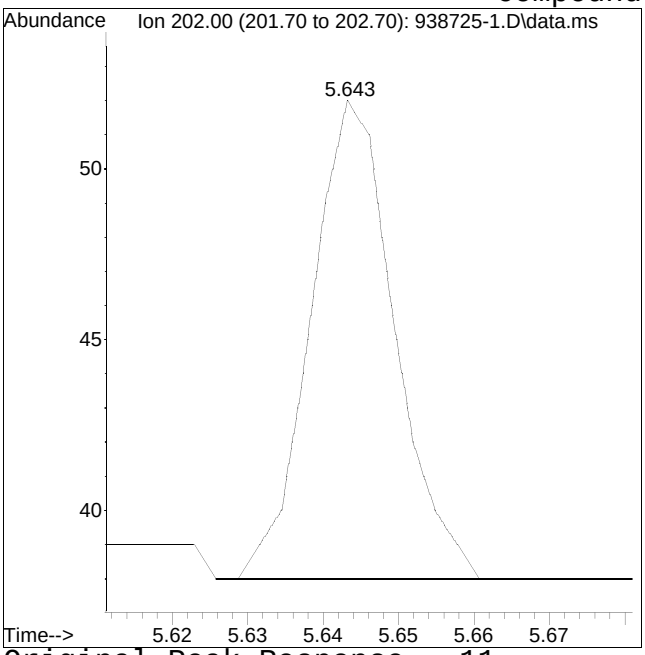
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

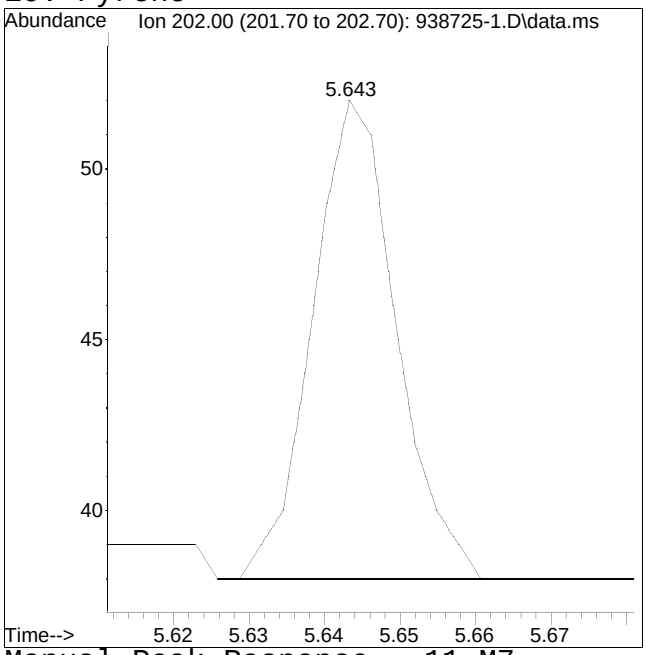
Manual Integration Report

Data Path : I:\8270SIM\SV128\240625\
Data File : 938725-1.D
Date Inj'd : 6/25/2024 10:45 am
Sample : WG1938725-1,32,,jjw

QMethod : SIM-LVI_231211_sv128.M
Operator : SV128:rp
Instrument : SV128
Quant Date : 6/25/2024 10:58 am

Compound #29: Pyrene





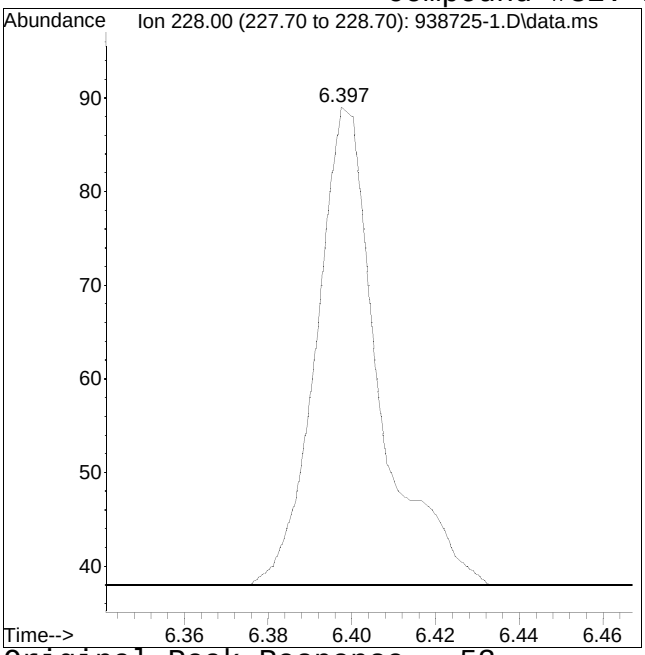
Original Peak Response = 11
Manual Peak Response = 11 M7
M7 = A qualifier ion was manually integrated (only for GC/MS data).

Manual Integration Report

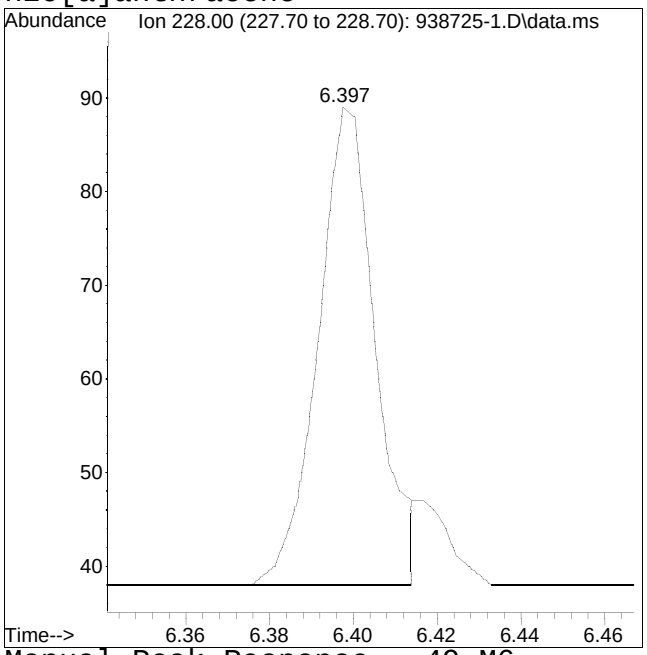
Data Path : I:\8270SIM\SV128\240625\
Data File : 938725-1.D
Date Inj'd : 6/25/2024 10:45 am
Sample : WG1938725-1,32,,jjw

QMethod : SIM-LVI_231211_sv128.M
Operator : SV128:rp
Instrument : SV128
Quant Date : 6/25/2024 10:58 am

Compound #32: Benzo[a]anthracene



Original Peak Response = 53



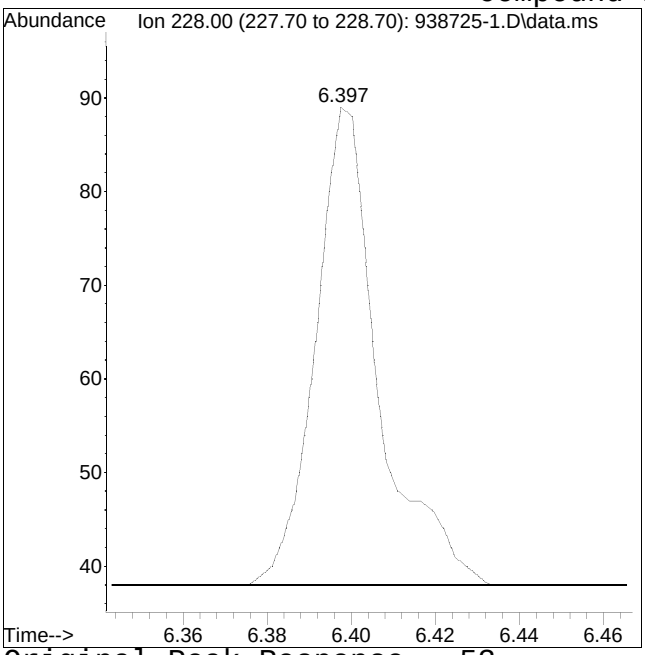
Manual Peak Response = 49 M6

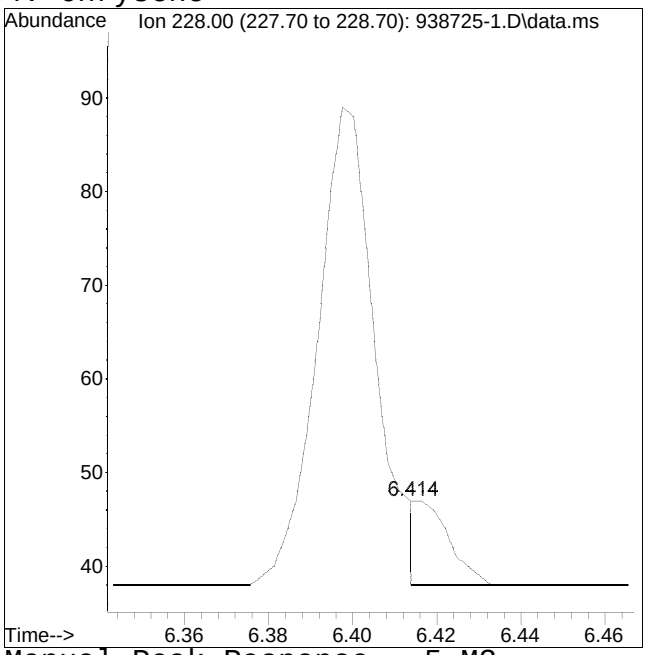
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

Data Path : I:\8270SIM\SV128\240625\ QMethod : SIM-LVI_231211_sv128.M
Data File : 938725-1.D Operator : SV128:rp
Date Inj'd : 6/25/2024 10:45 am Instrument : SV128
Sample : WG1938725-1,32,,jjw Quant Date : 6/25/2024 10:58 am

Compound #34: Chrysene





Original Peak Response = 53 Manual Peak Response = 5 M3

M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV128\240624\
Data File : 938280-2.D
Acq On : 24 Jun 2024 12:18 pm
Operator : SV128:jjw
Sample : WG1938280-2,32,,jjw
Misc : WG1938533,WG1938280,ical20676
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 27 14:10:42 2024
Quant Method : I:\8270sim\sv128\240624\SIM-LVI_231211_sv128.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 24 11:39:29 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270sim\sv128\240624\ccv0624.D
Sub List : DEFAULT - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.303	152	3879	4000.000	ng/ml	0.00
Standard Area 1 = 4069			Recovery = 95.33%			
8) Naphthalene-d8	2.972	136	14581	4000.000	ng/ml	# 0.00
Standard Area 1 = 14375			Recovery = 101.43%			
17) Acenaphthene-d10	3.957	164	7588	4000.000	ng/ml	0.00
Standard Area 1 = 8180			Recovery = 92.76%			
22) Phenanthrene-d10	4.807	188	16327	4000.000	ng/ml	# 0.00
Standard Area 1 = 17962			Recovery = 90.90%			
31) Chrysene-d12	6.388	240	15077	4000.000	ng/ml	0.00
Standard Area 1 = 16460			Recovery = 91.60%			
36) Perylene-d12	7.700	264	17177	4000.000	ng/ml	-0.01
Standard Area 1 = 18271			Recovery = 94.01%			
System Monitoring Compounds						
2) 2-Fluorophenol	1.695	112	3315	3393.747	ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 67.87%			
3) Phenol-d6	2.106	99	3641	3189.478	ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 63.79%			
7) Nitrobenzene-d5	2.584	82	2131	2309.904	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 92.40%			
13) 2-Fluorobiphenyl	3.573	172	5150	1665.477	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 66.62%			
21) 2,4,6-Tribromophenol	4.406	330	1577	4158.929	ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 83.18%			
30) 4-Terphenyl-d14	5.726	244	6390	1878.580	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 75.14%			
Target Compounds						Qvalue
6) Hexachloroethane	2.565	117	1610	3475.358	ng/ml	93
9) Naphthalene	2.984	128	12328	3296.975	ng/ml#	99
10) Hexachlorobutadiene	3.057	225	2470	2883.729	ng/ml	100
11) 2-Methylnaphthalene	3.366	142	8026	3360.045	ng/ml	98
14) 2-Chloronaphthalene	3.640	162	8453	3250.619	ng/ml	91
16) Acenaphthylene	3.875	152	12824	3329.039	ng/ml	99
18) Acenaphthene	3.975	153	8869	3457.621	ng/ml	88
20) Fluorene	4.269	166	9544	3686.704	ng/ml	99
24) Hexachlorobenzene	4.591	284	3670	3378.056	ng/ml	94
25) Pentachlorophenol	4.700	266	2477	4412.084	ng/ml	99

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV128\240624\
Data File : 938280-2.D
Acq On : 24 Jun 2024 12:18 pm
Operator : SV128:jjw
Sample : WG1938280-2,32,,jjw
Misc : WG1938533,WG1938280,ical20676
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 27 14:10:42 2024
Quant Method : I:\8270sim\sv128\240624\SIM-LVI_231211_sv128.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 24 11:39:29 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270sim\sv128\240624\ccv0624.D
Sub List : DEFAULT - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
26) Phenanthrene	4.819	178	15657	3546.316	ng/ml	100
27) Anthracene	4.848	178	15891	3725.006	ng/ml	100
28) Fluoranthene	5.505	202	18808	3877.493	ng/ml	96
29) Pyrene	5.636	202	20036	3992.381	ng/ml	98
32) Benzo[a]anthracene	6.380	228	20016	3696.623	ng/ml	99
34) Chrysene	6.404	228	18645	3587.084	ng/ml	100
37) Benzo[b]fluoranthene	7.301	252	20127	3783.709	ng/ml	100
38) Benzo[k]fluoranthene	7.326	252	19616	3962.677	ng/ml	99
39) Benzo[a]pyrene	7.637	252	18168	3878.588	ng/ml	100
40) Indeno[1,2,3-cd]pyrene	9.030	276	19351	4131.452	ng/ml	97
41) Dibenzo[a,h]anthracene	9.068	278	18654M6	4100.581	ng/ml	
42) Benzo[g,h,i]perylene	9.396	276	18183M1	3734.868	ng/ml	

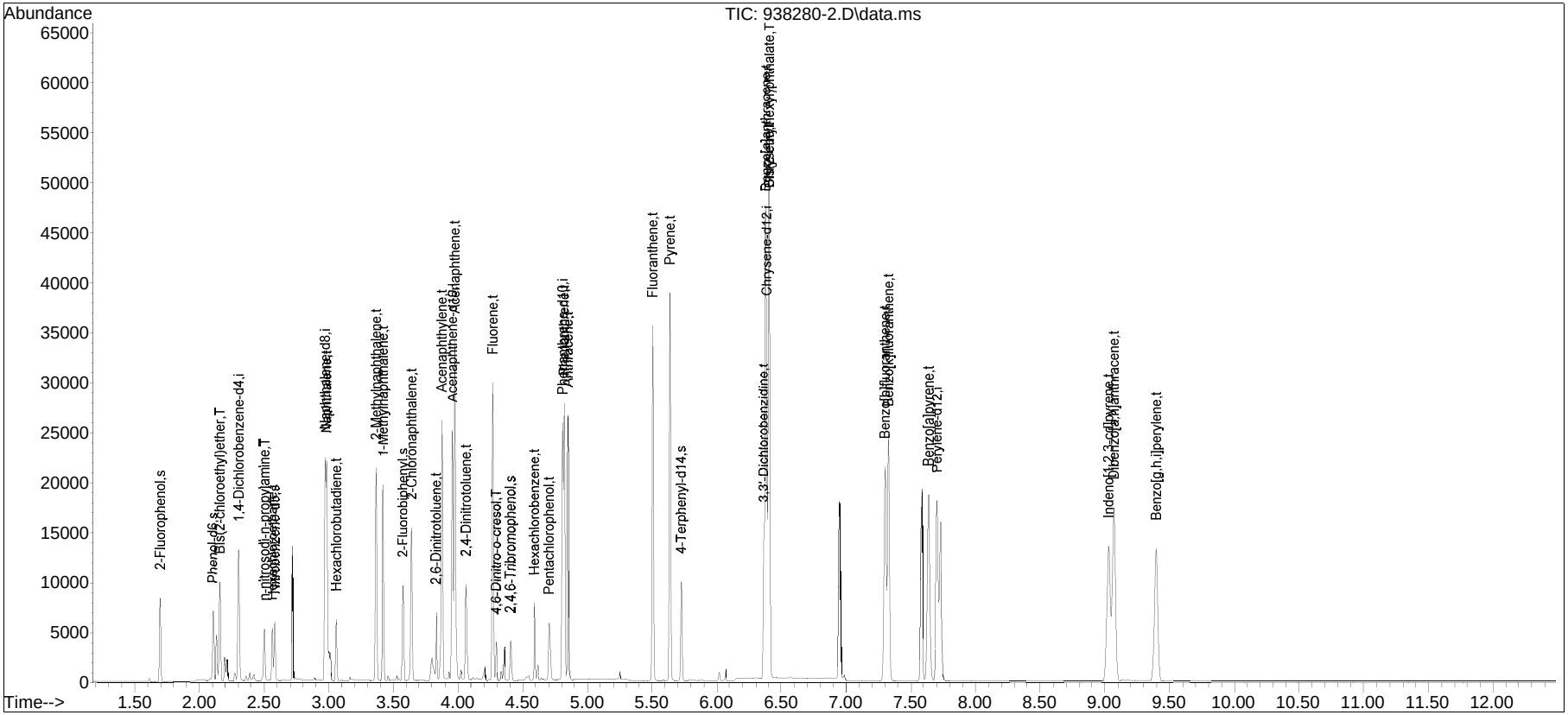
(#) = qualifier out of range (m) = manual integration (+) = signals summed

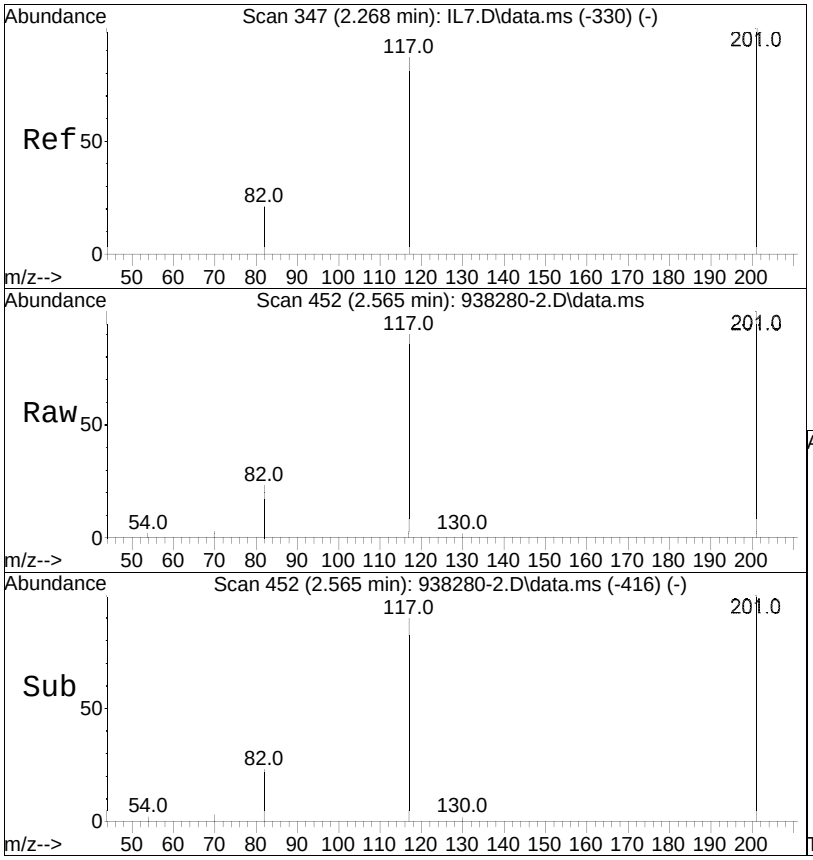
Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV128\240624\
Data File : 938280-2.D
Acq On : 24 Jun 2024 12:18 pm
Operator : SV128:jjw
Sample : WG1938280-2,32,,jjw
Misc : WG1938533,WG1938280,ical20676
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 27 14:10:42 2024
Quant Method : I:\8270sim\sv128\240624\SIM-LVI_231211_sv128.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 24 11:39:29 2024
Response via : Initial Calibration

Sub List : DEFAULT - All compounds listedv0624.D•

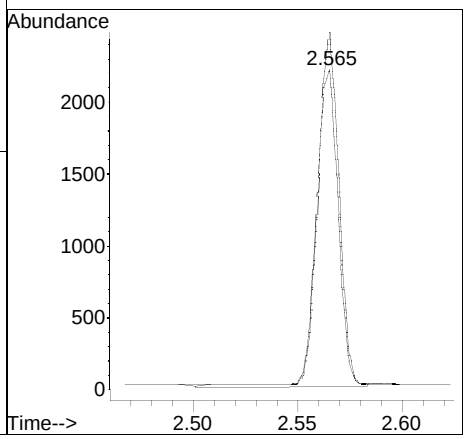


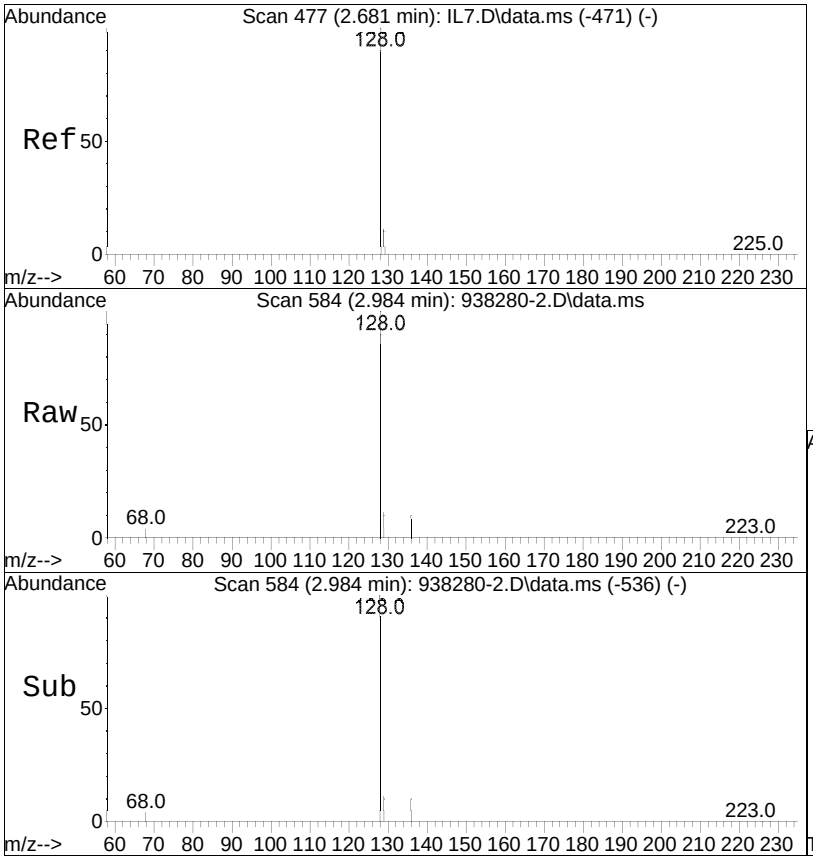


#6
Hexachloroethane
Concen: 3475.36 ng/ml
RT: 2.565 min Scan# 452
Delta R.T. -0.003 min
Lab File: 938280-2.D
Acq: 24 Jun 2024 12:18 pm

Tgt Ion:117 Resp: 1610

Ion	Ratio	Lower	Upper
117	100		
201	106.9	91.8	137.6

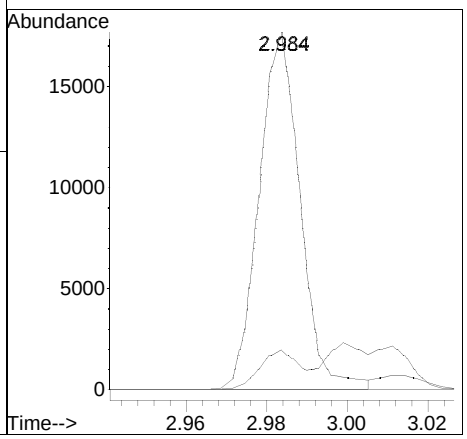


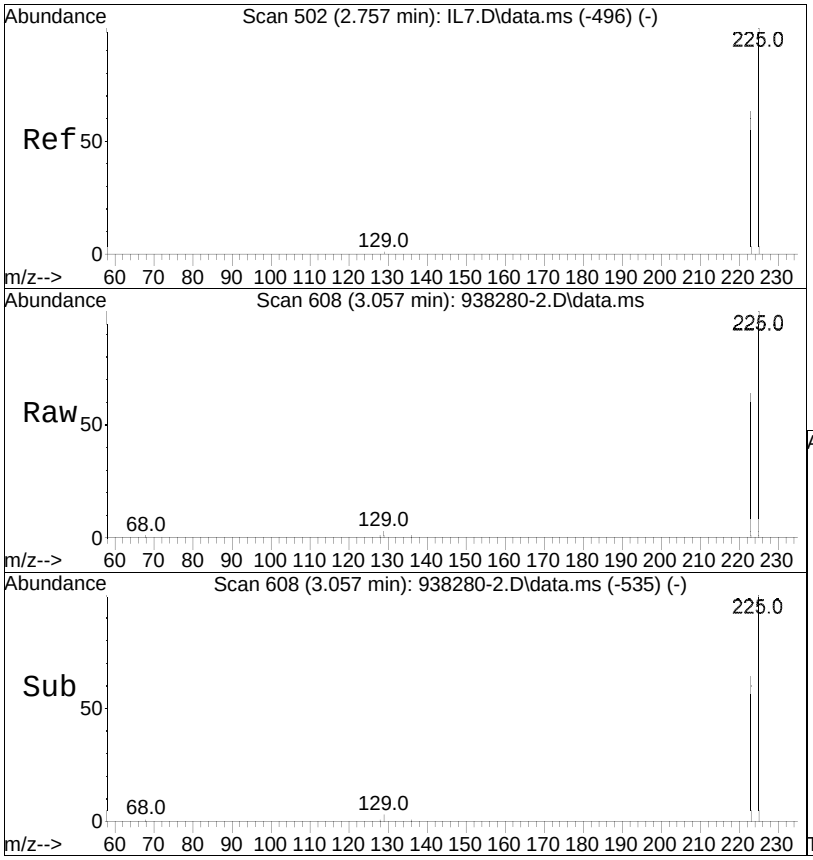


#9
Naphthalene
Concen: 3296.97 ng/ml
RT: 2.984 min Scan# 584
Delta R.T. -0.003 min
Lab File: 938280-2.D
Acq: 24 Jun 2024 12:18 pm

Tgt Ion:128 Resp: 12328

Ion	Ratio	Lower	Upper
128	100		
129	10.6	8.8	13.2
127	0.0	0.0	0.0

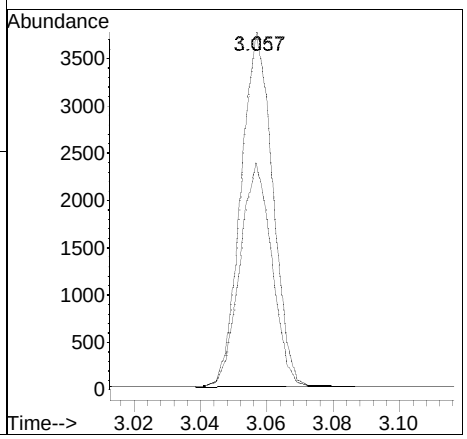


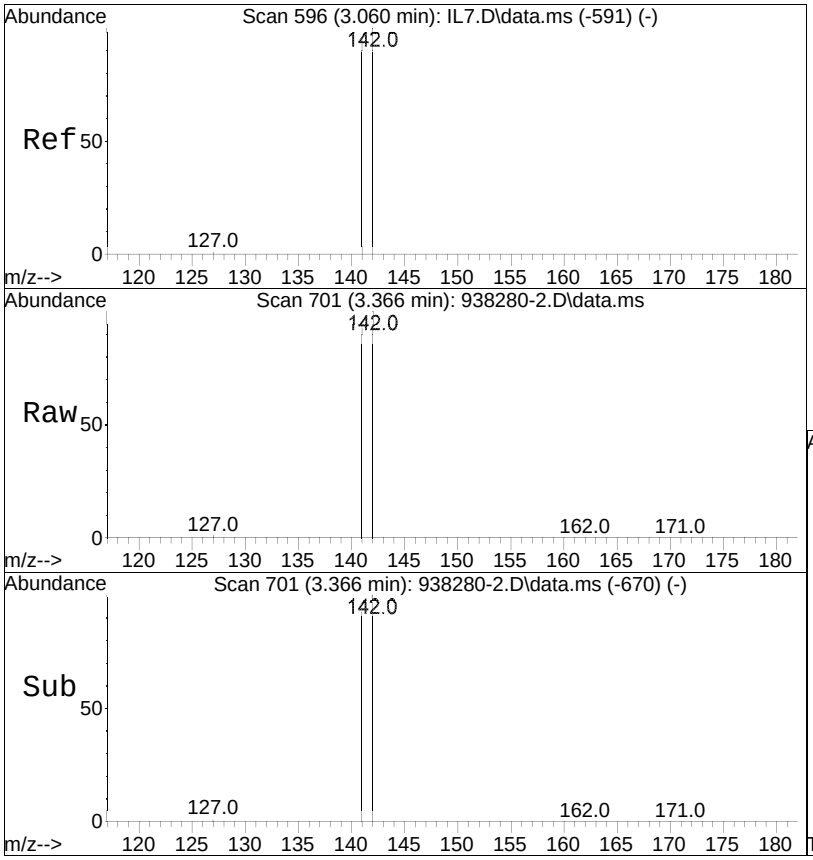


#10
Hexachlorobutadiene
Concen: 2883.73 ng/ml
RT: 3.057 min Scan# 608
Delta R.T. -0.006 min
Lab File: 938280-2.D
Acq: 24 Jun 2024 12:18 pm

Tgt Ion:225 Resp: 2470

Ion	Ratio	Lower	Upper
225	100		
223	62.8	49.9	74.9

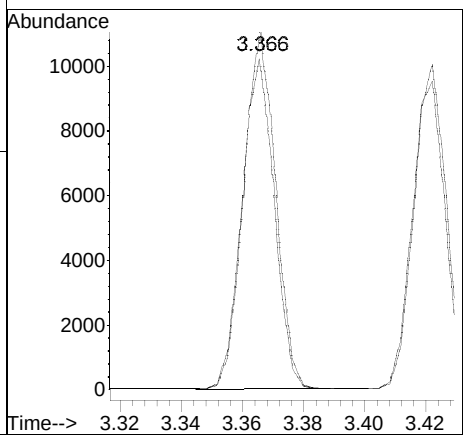


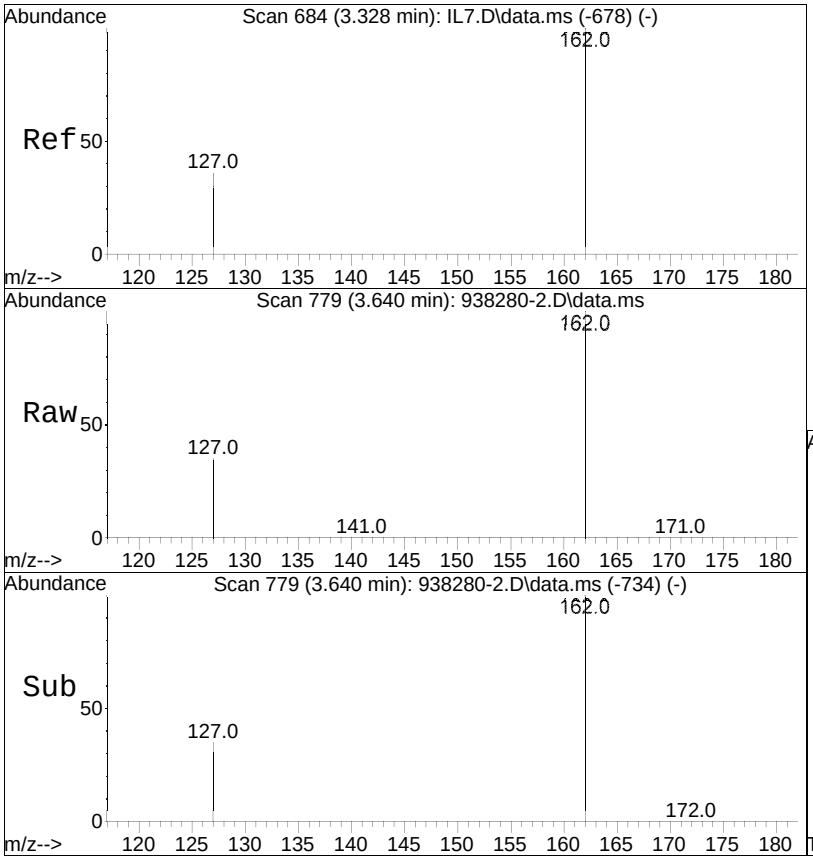


#11
2-Methylnaphthalene
Concen: 3360.05 ng/ml
RT: 3.366 min Scan# 701
Delta R.T. -0.004 min
Lab File: 938280-2.D
Acq: 24 Jun 2024 12:18 pm

Tgt Ion:142 Resp: 8026

Ion	Ratio	Lower	Upper
142	100		
141	92.8	75.9	113.9

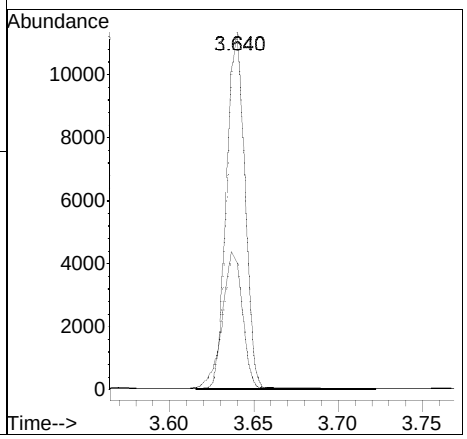


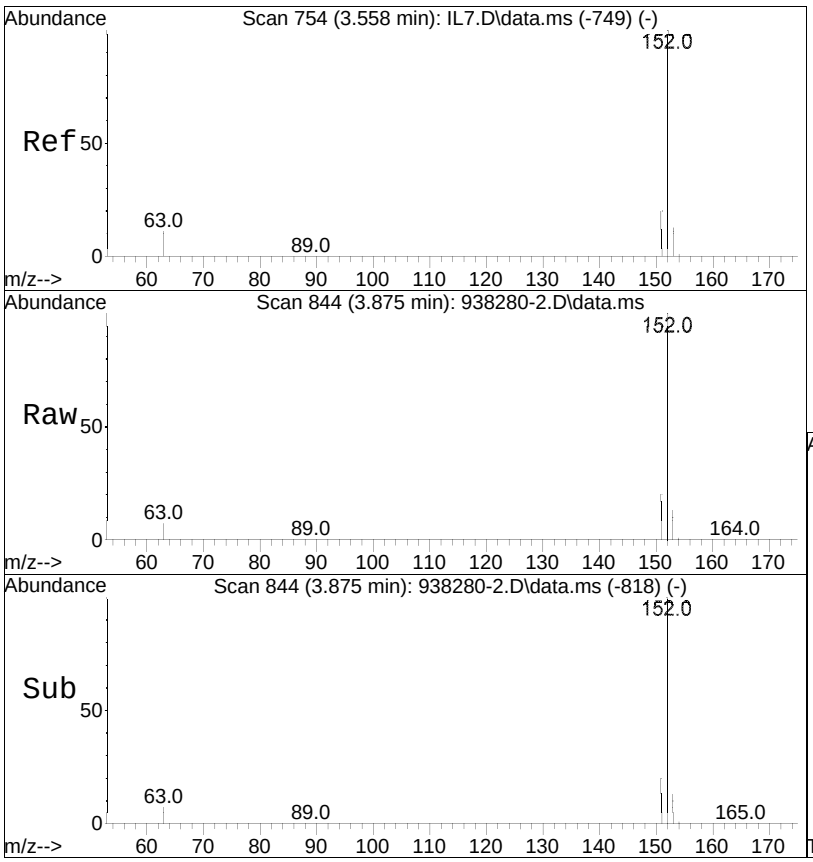


#14
2-Chloronaphthalene
Concen: 3250.62 ng/ml
RT: 3.640 min Scan# 779
Delta R.T. -0.004 min
Lab File: 938280-2.D
Acq: 24 Jun 2024 12:18 pm

Tgt Ion:162 Resp: 8453

Ion	Ratio	Lower	Upper
162	100		
127	42.0	29.3	43.9

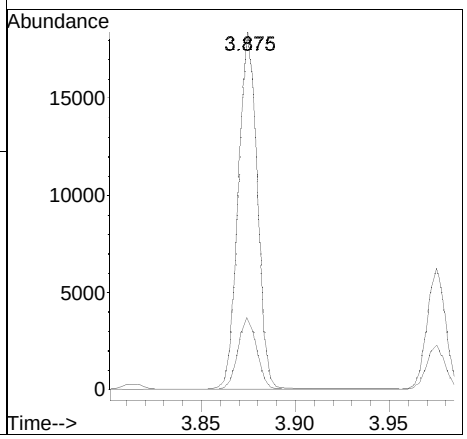


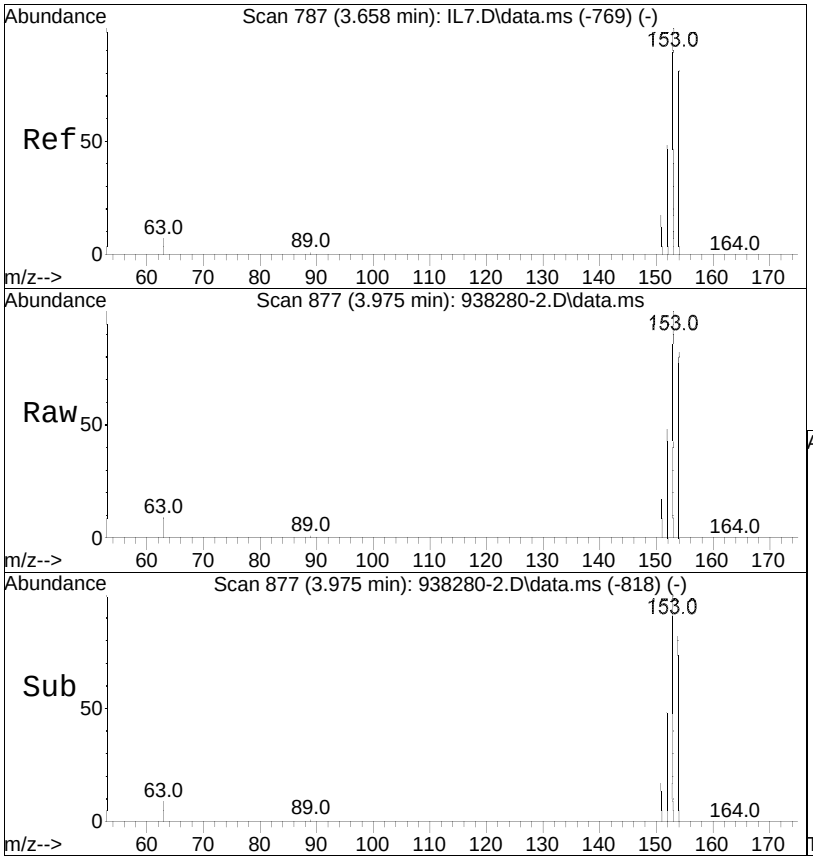


#16
Acenaphthylene
Concen: 3329.04 ng/ml
RT: 3.875 min Scan# 844
Delta R.T. -0.005 min
Lab File: 938280-2.D
Acq: 24 Jun 2024 12:18 pm

Tgt Ion:152 Resp: 12824

Ion	Ratio	Lower	Upper
152	100		
151	19.9	16.4	24.6

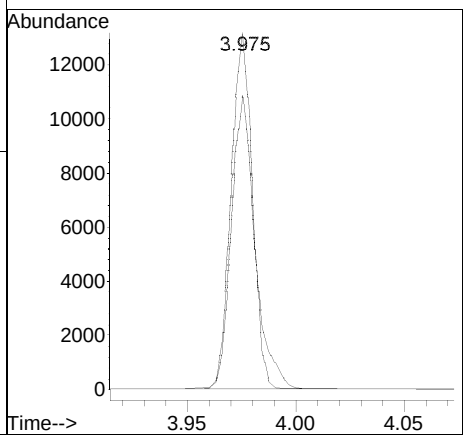


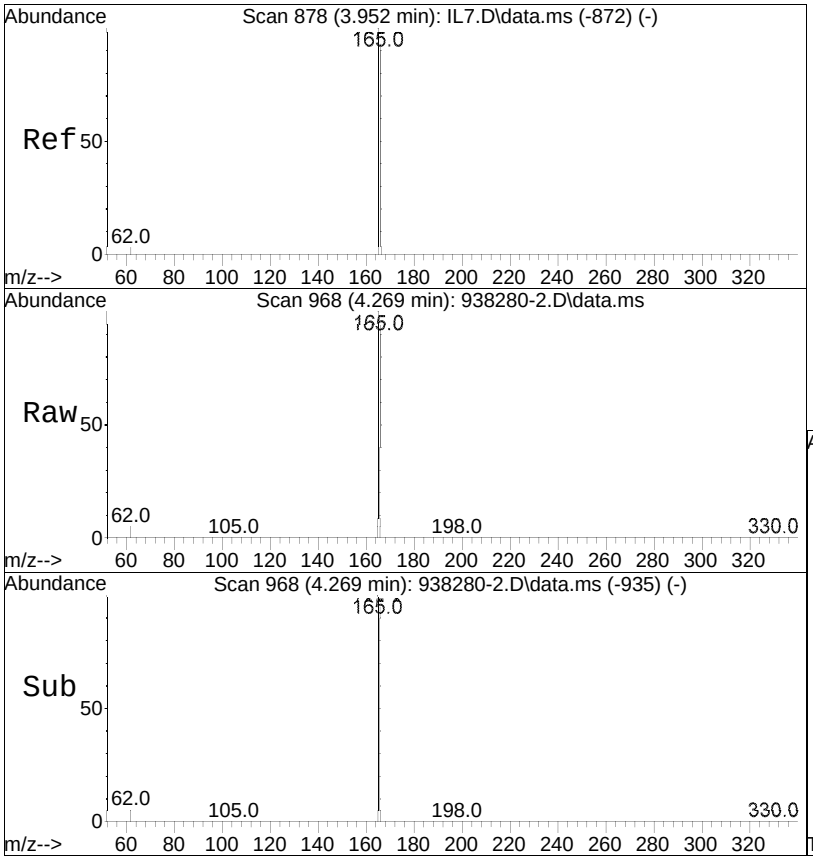


#18
Acenaphthene
Concen: 3457.62 ng/ml
RT: 3.975 min Scan# 877
Delta R.T. -0.005 min
Lab File: 938280-2.D
Acq: 24 Jun 2024 12:18 pm

Tgt Ion:153 Resp: 8869

Ion	Ratio	Lower	Upper
153	100		
154	92.9	65.8	98.6

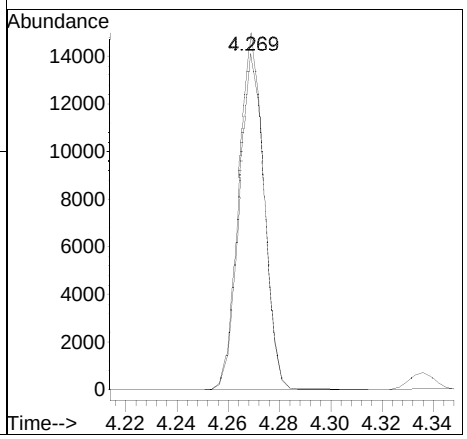


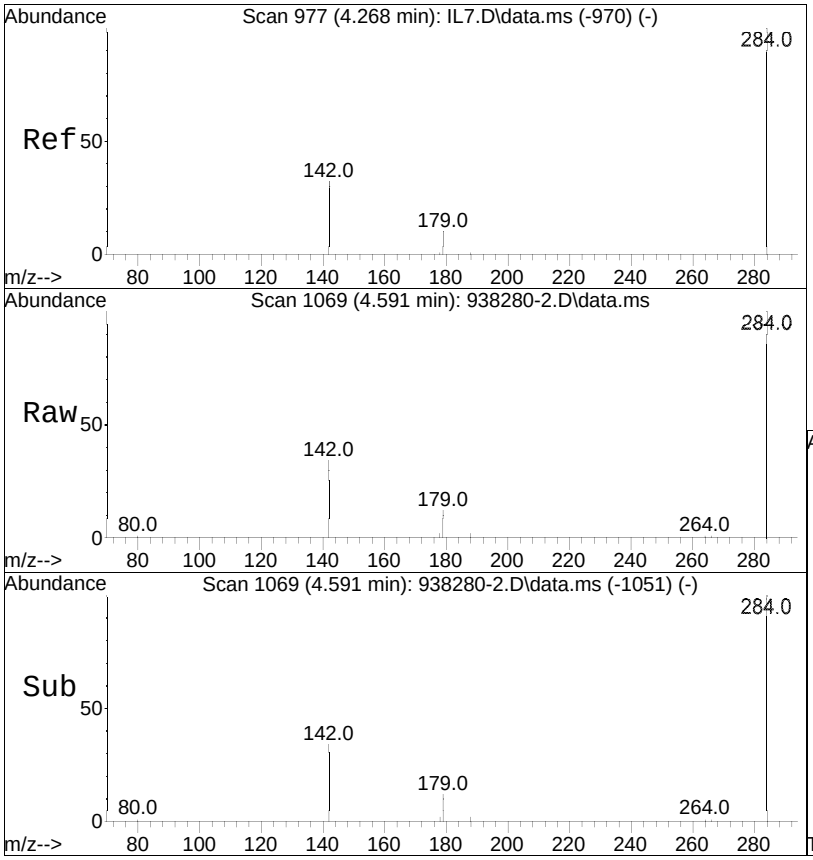


#20
Fluorene
Concen: 3686.70 ng/ml
RT: 4.269 min Scan# 968
Delta R.T. -0.005 min
Lab File: 938280-2.D
Acq: 24 Jun 2024 12:18 pm

Tgt Ion:166 Resp: 9544

Ion	Ratio	Lower	Upper
166	100		
165	105.6	85.7	128.5

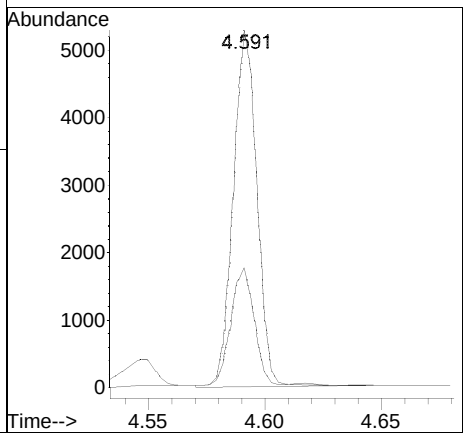


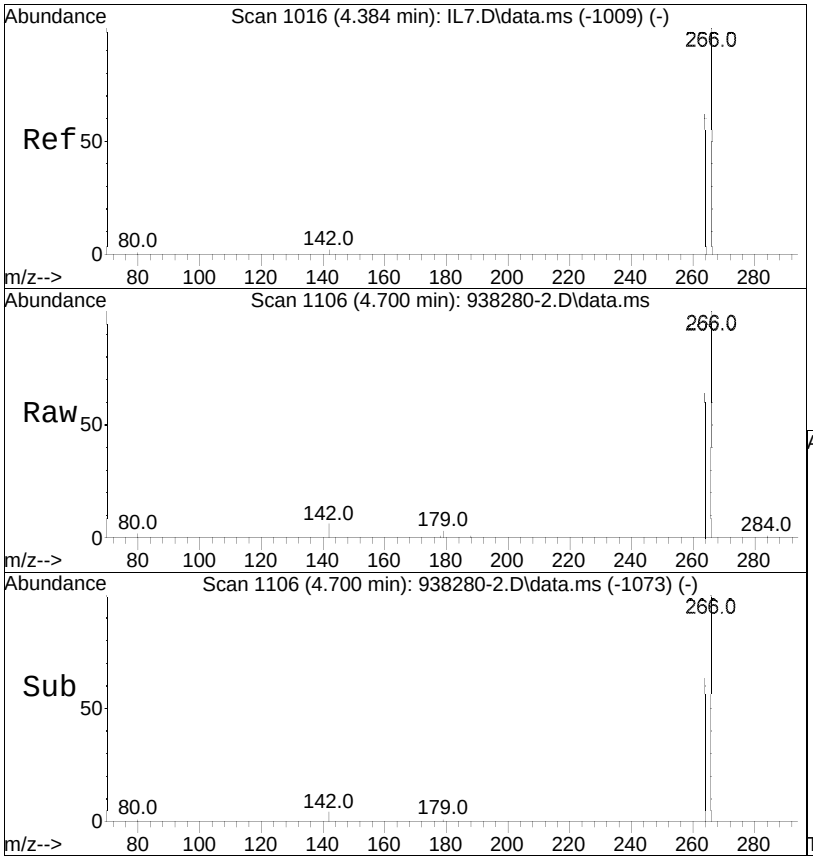


#24
Hexachlorobenzene
Concen: 3378.06 ng/ml
RT: 4.591 min Scan# 1069
Delta R.T. -0.004 min
Lab File: 938280-2.D
Acq: 24 Jun 2024 12:18 pm

Tgt Ion:284 Resp: 3670

Ion	Ratio	Lower	Upper
284	100		
142	33.4	23.9	35.9

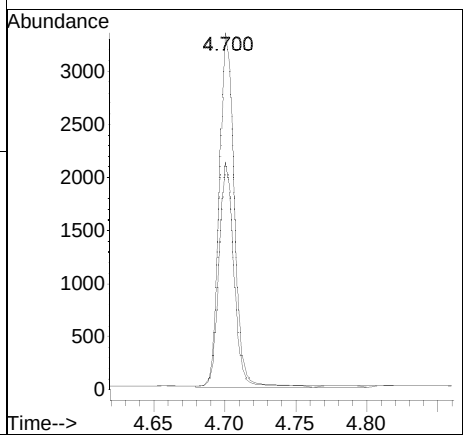


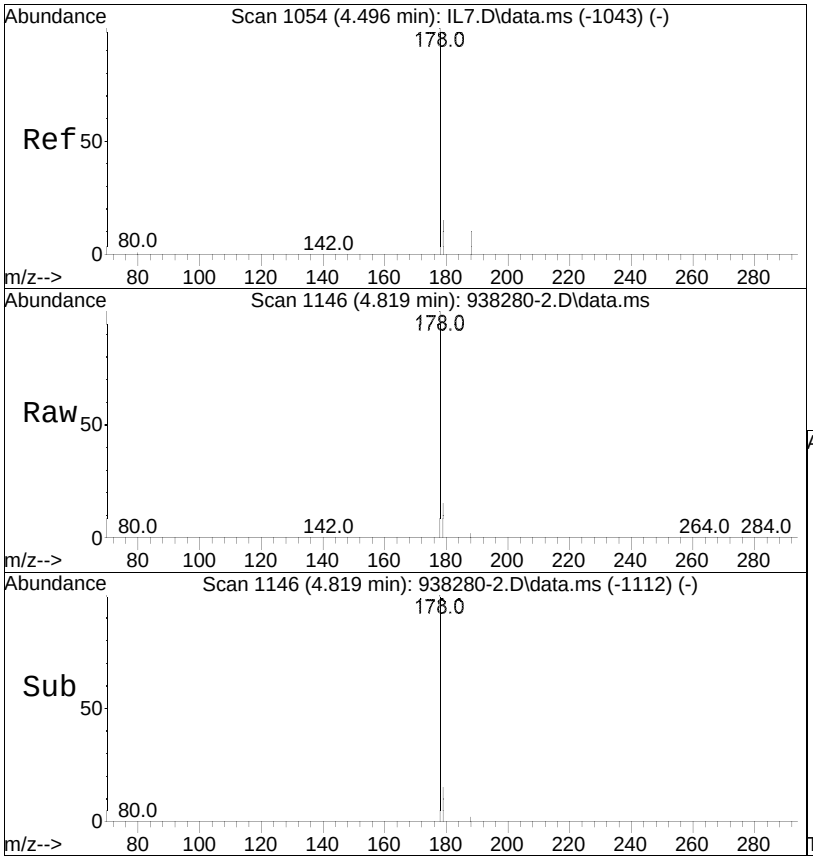


#25
Pentachlorophenol
Concen: 4412.08 ng/ml
RT: 4.700 min Scan# 1106
Delta R.T. -0.004 min
Lab File: 938280-2.D
Acq: 24 Jun 2024 12:18 pm

Tgt Ion:266 Resp: 2477

Ion	Ratio	Lower	Upper
266	100		
264	62.9	49.7	74.5

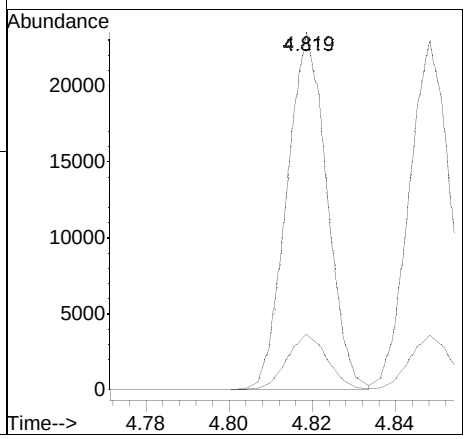


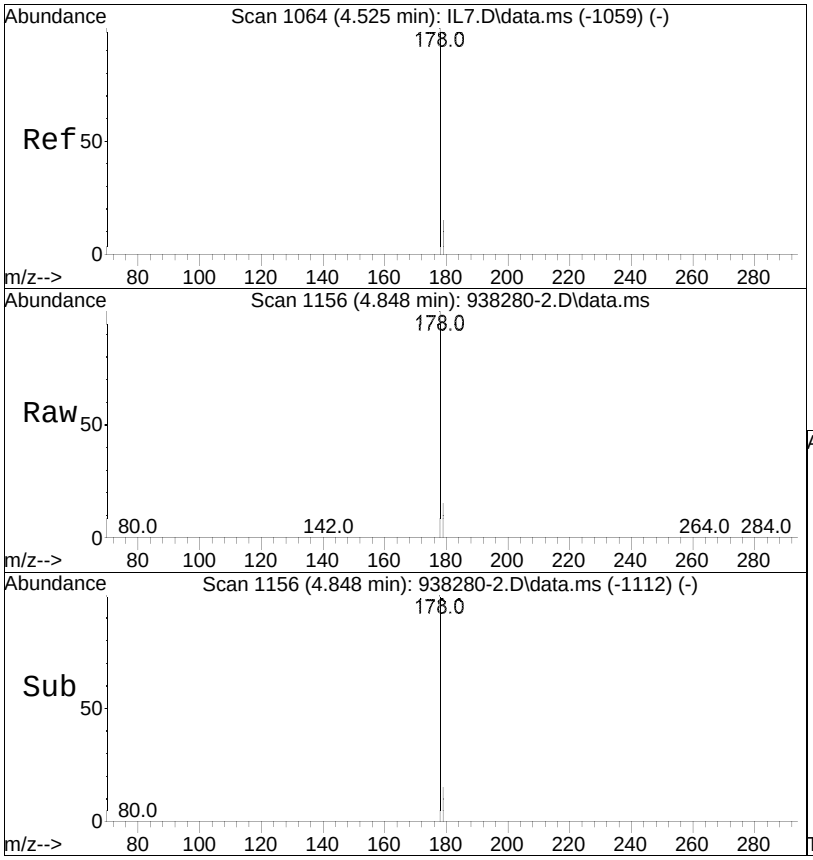


#26
Phenanthrene
Concen: 3546.32 ng/ml
RT: 4.819 min Scan# 1146
Delta R.T. -0.004 min
Lab File: 938280-2.D
Acq: 24 Jun 2024 12:18 pm

Tgt Ion:178 Resp: 15657

Ion	Ratio	Lower	Upper
178	100		
179	15.3	12.2	18.4

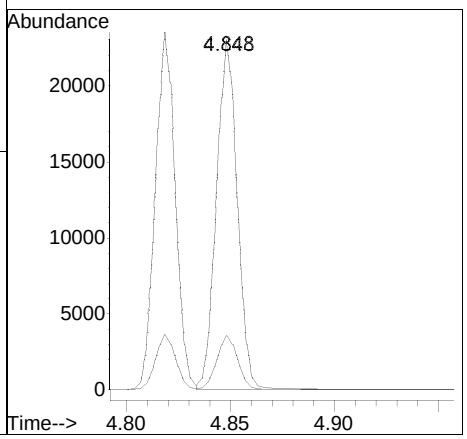


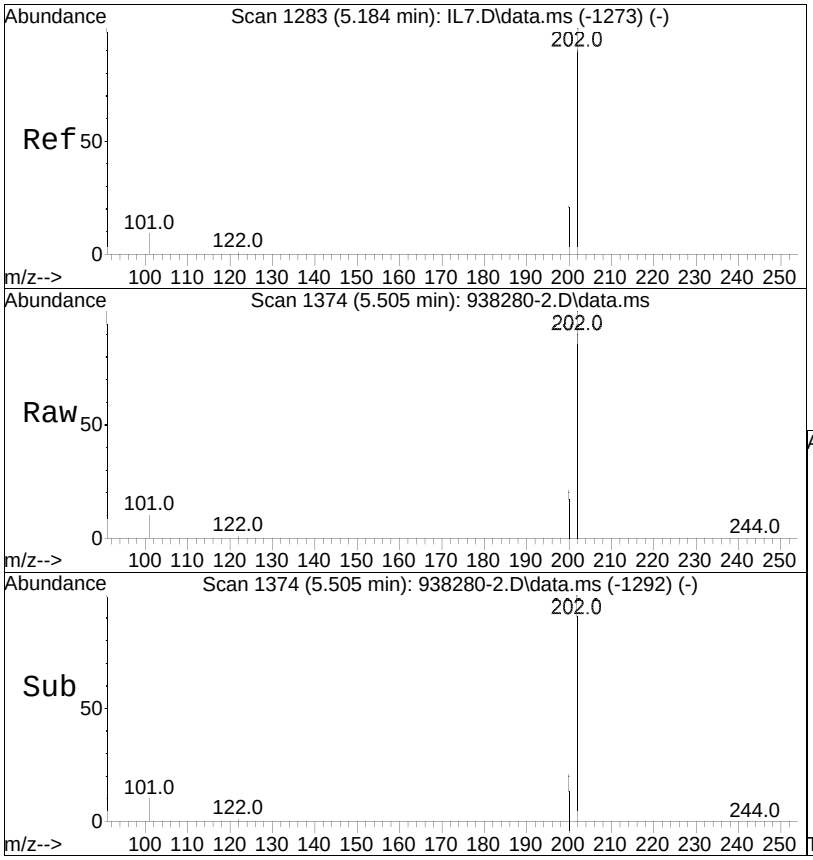


#27
Anthracene
Concen: 3725.01 ng/ml
RT: 4.848 min Scan# 1156
Delta R.T. -0.004 min
Lab File: 938280-2.D
Acq: 24 Jun 2024 12:18 pm

Tgt Ion:178 Resp: 15891

Ion	Ratio	Lower	Upper
178	100		
179	15.3	12.2	18.2

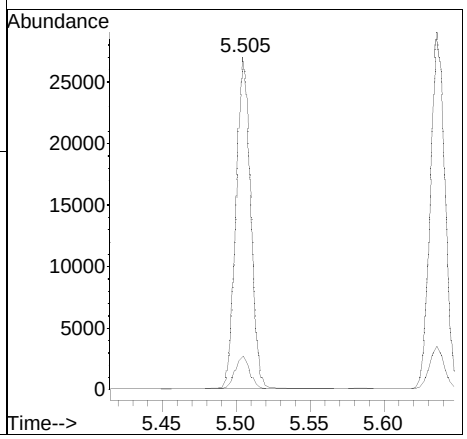


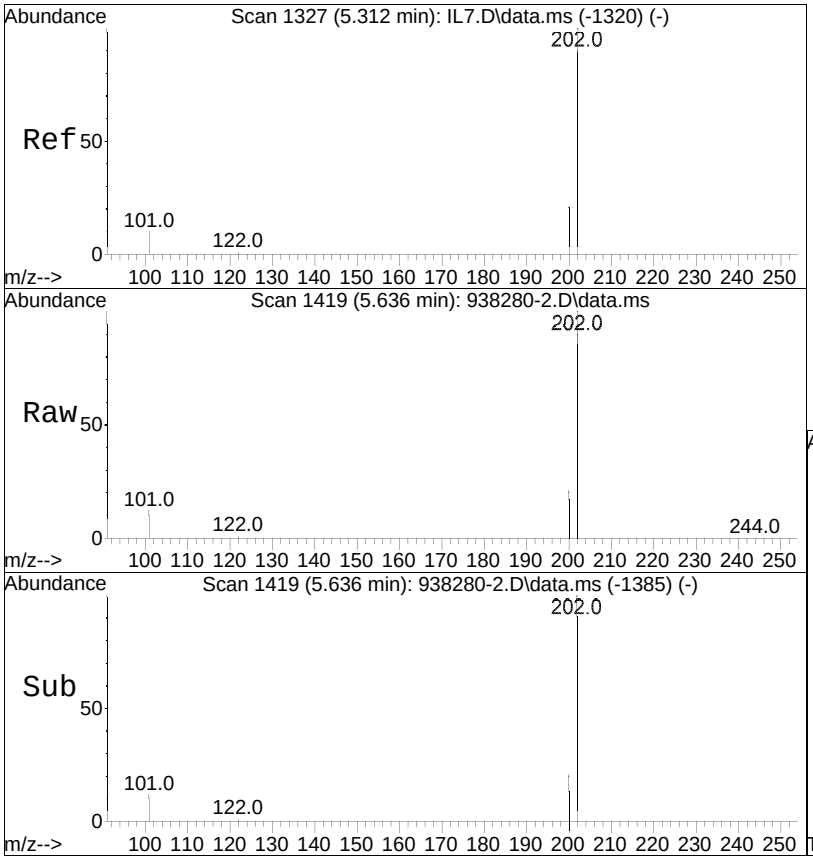


#28
Fluoranthene
Concen: 3877.49 ng/ml
RT: 5.505 min Scan# 1374
Delta R.T. -0.004 min
Lab File: 938280-2.D
Acq: 24 Jun 2024 12:18 pm

Tgt Ion:202 Resp: 18808

Ion	Ratio	Lower	Upper
202	100		
101	10.3	7.2	10.8

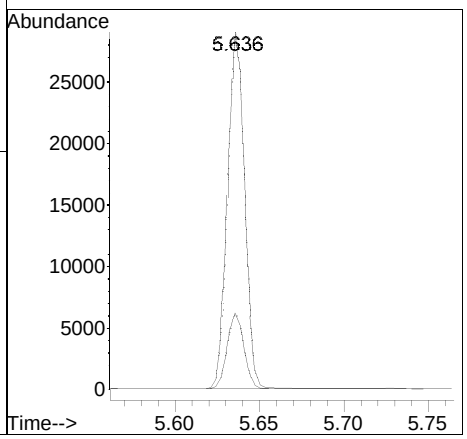


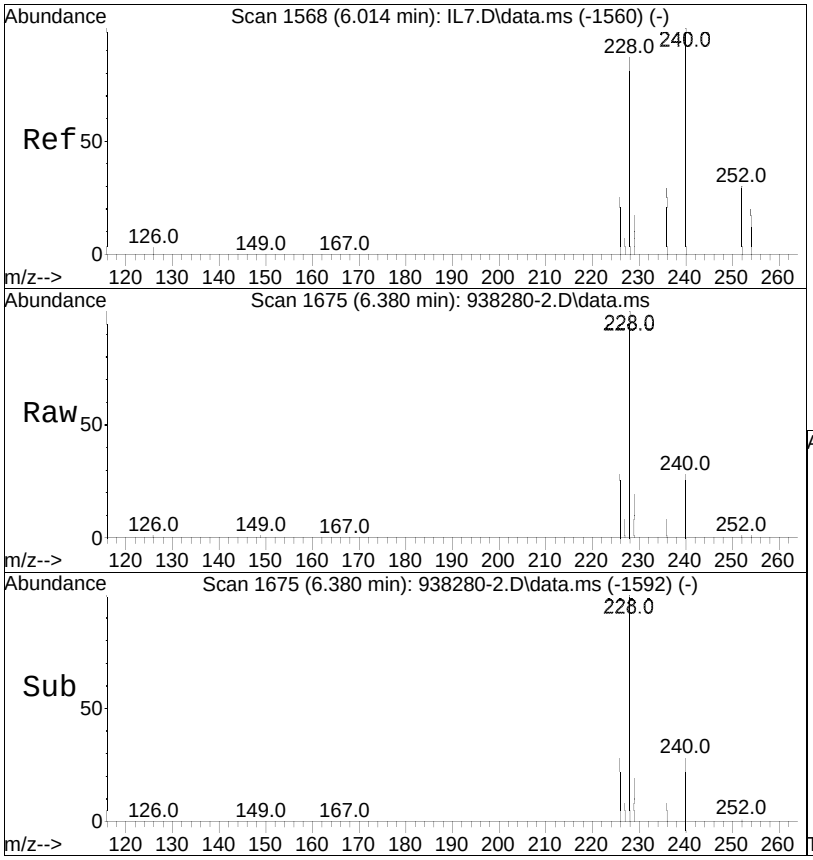


#29
Pyrene
Concen: 3992.38 ng/ml
RT: 5.636 min Scan# 1419
Delta R.T. -0.004 min
Lab File: 938280-2.D
Acq: 24 Jun 2024 12:18 pm

Tgt Ion:202 Resp: 20036

Ion	Ratio	Lower	Upper
202	100		
200	21.3	17.7	26.5

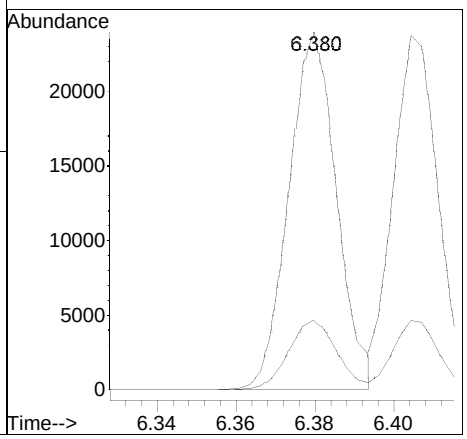


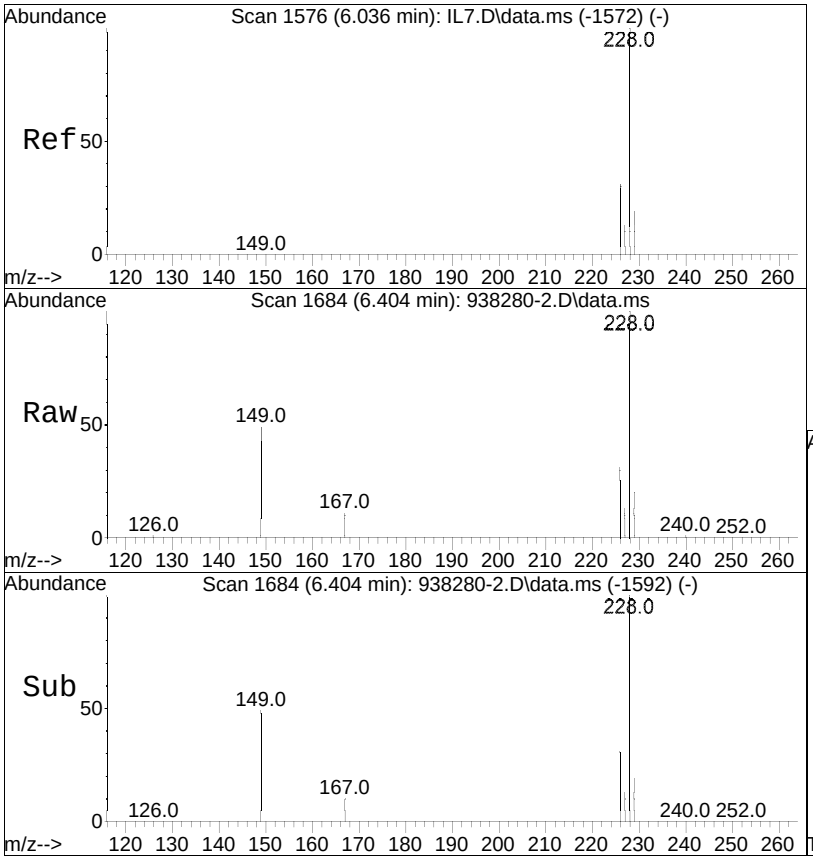


#32
Benzo[a]anthracene
Concen: 3696.62 ng/ml
RT: 6.380 min Scan# 1675
Delta R.T. -0.006 min
Lab File: 938280-2.D
Acq: 24 Jun 2024 12:18 pm

Tgt Ion:228 Resp: 20016

Ion	Ratio	Lower	Upper
228	100		
229	19.4	15.7	23.5

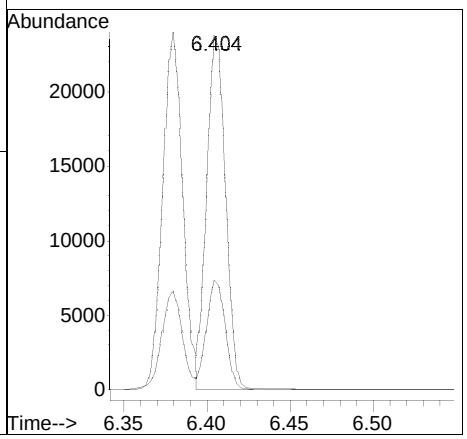


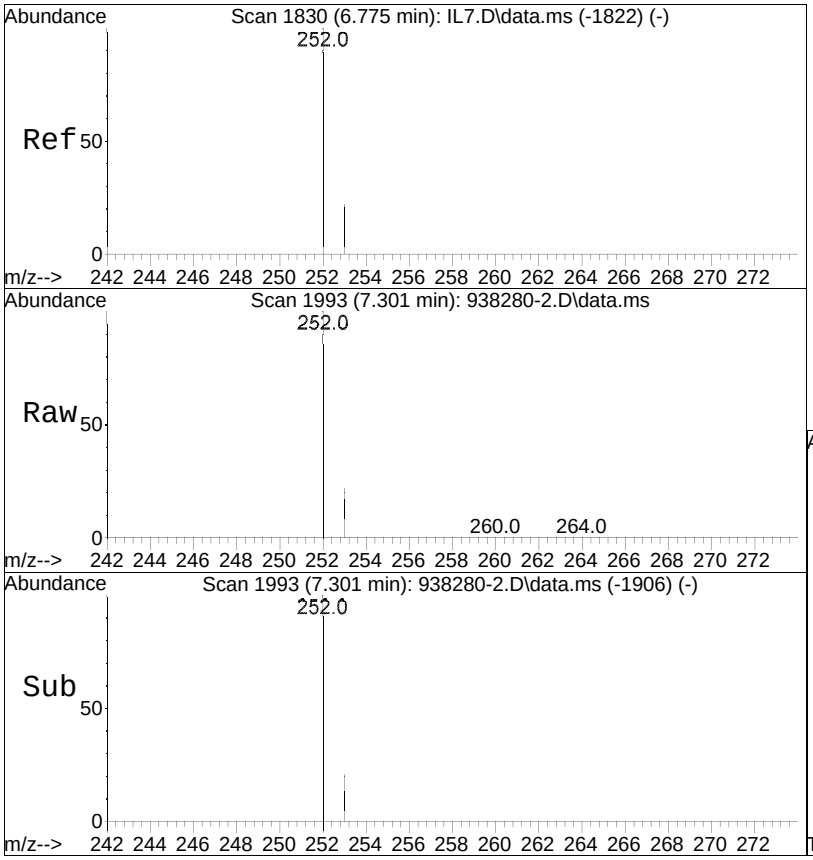


#34
Chrysene
Concen: 3587.08 ng/ml
RT: 6.404 min Scan# 1684
Delta R.T. -0.006 min
Lab File: 938280-2.D
Acq: 24 Jun 2024 12:18 pm

Tgt Ion:228 Resp: 18645

Ion	Ratio	Lower	Upper
228	100		
226	30.6	24.6	36.8

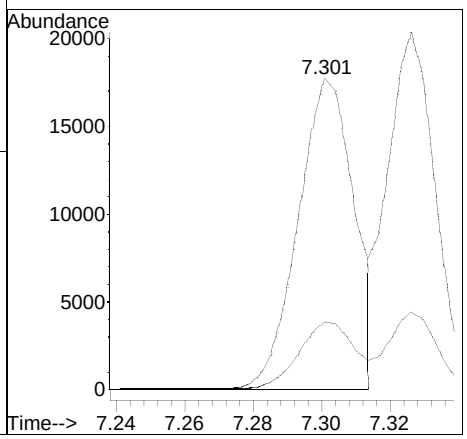


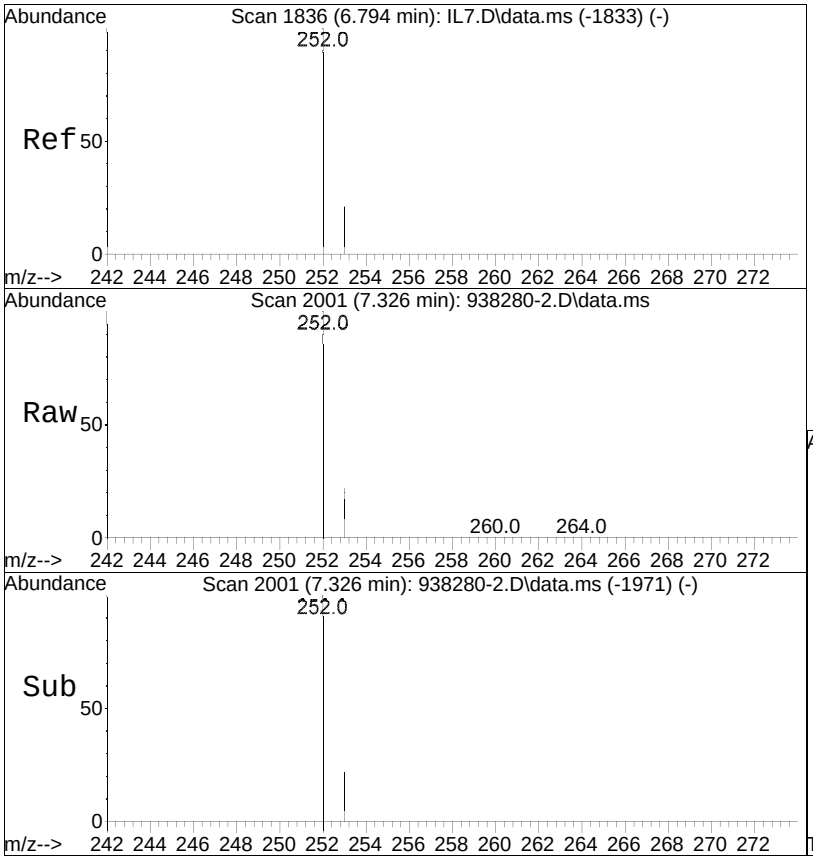


#37
Benzo[b]fluoranthene
Concen: 3783.71 ng/ml
RT: 7.301 min Scan# 1993
Delta R.T. -0.005 min
Lab File: 938280-2.D
Acq: 24 Jun 2024 12:18 pm

Tgt Ion:252 Resp: 20127

Ion	Ratio	Lower	Upper
252	100		
253	21.5	17.1	25.7

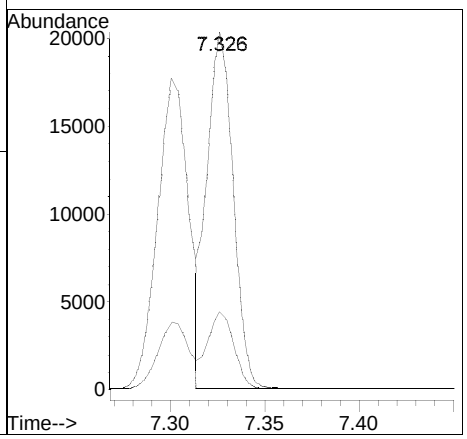


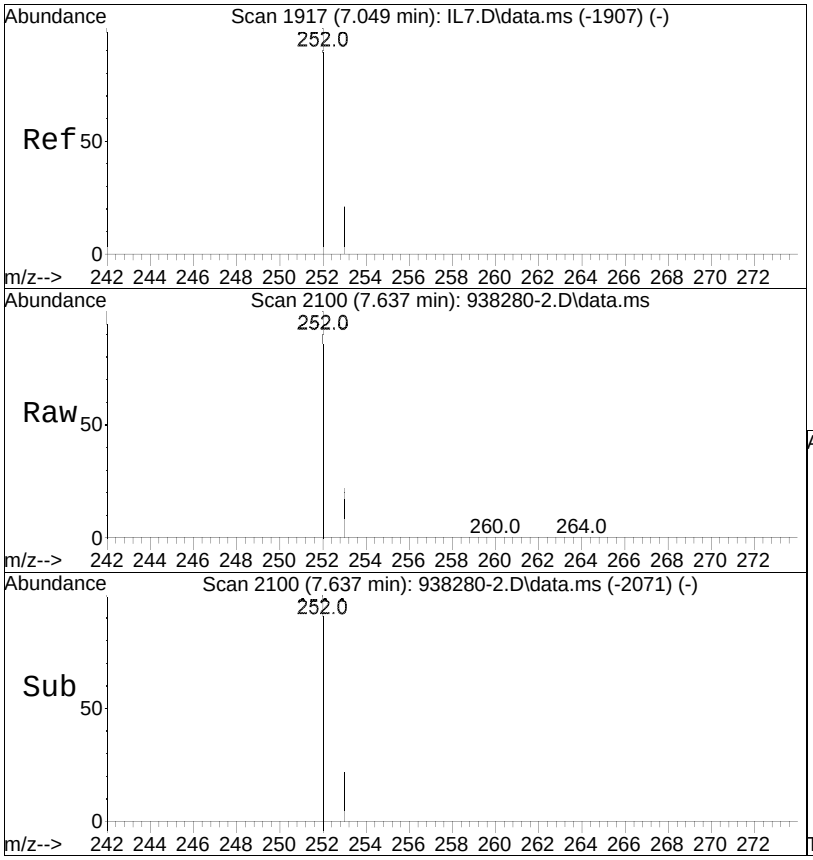


#38
Benzo[k]fluoranthene
Concen: 3962.68 ng/ml
RT: 7.326 min Scan# 2001
Delta R.T. -0.005 min
Lab File: 938280-2.D
Acq: 24 Jun 2024 12:18 pm

Tgt Ion:252 Resp: 19616

Ion	Ratio	Lower	Upper
252	100		
253	21.9	17.3	25.9

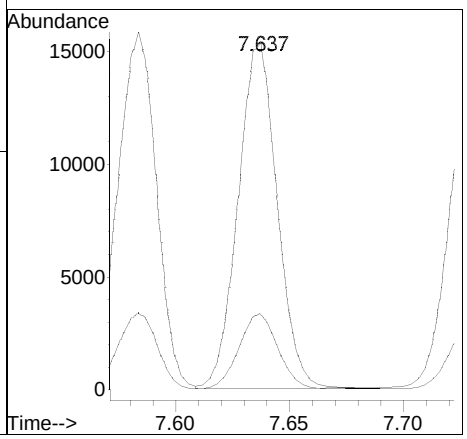


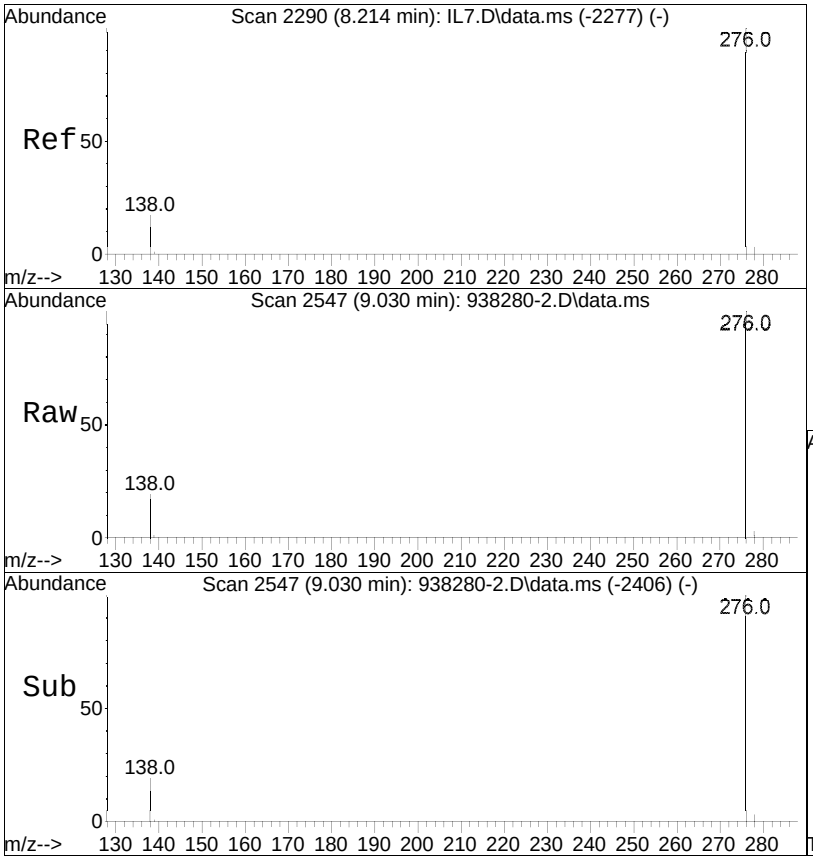


#39
Benzo[a]pyrene
Concen: 3878.59 ng/ml
RT: 7.637 min Scan# 2100
Delta R.T. -0.008 min
Lab File: 938280-2.D
Acq: 24 Jun 2024 12:18 pm

Tgt Ion:252 Resp: 18168

Ion	Ratio	Lower	Upper
252	100		
253	21.6	17.3	25.9

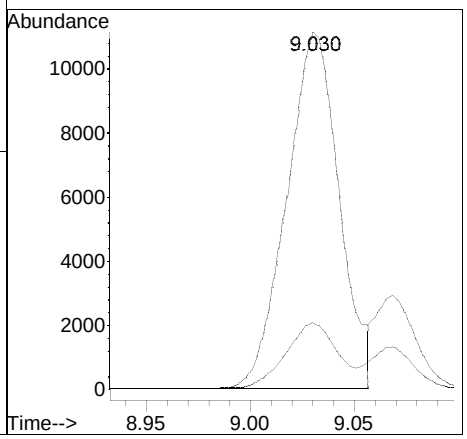


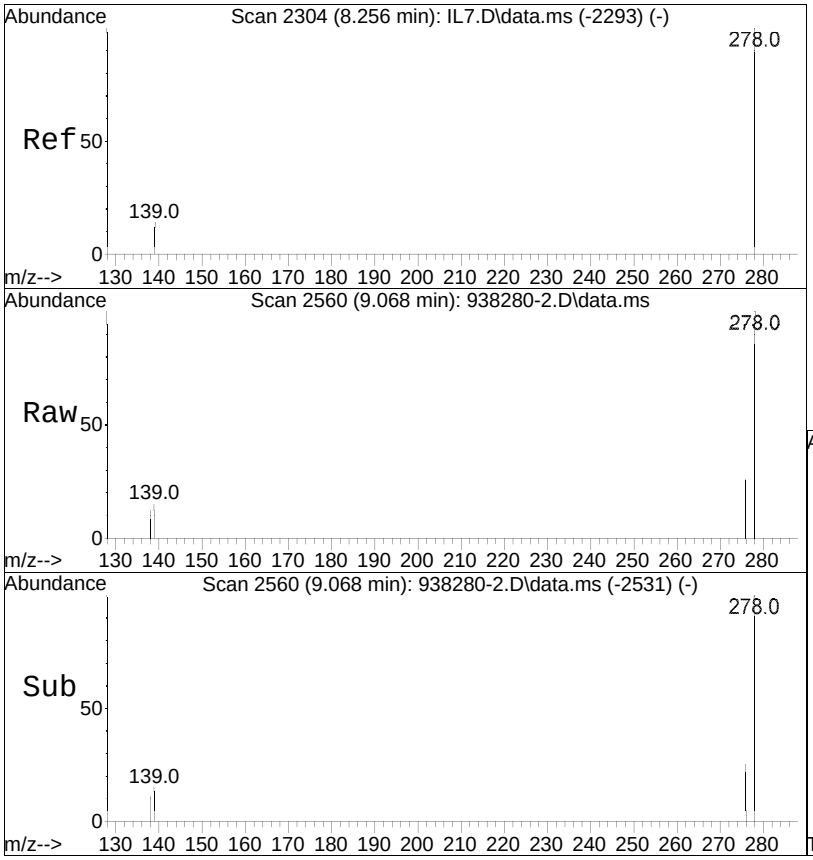


#40
Indeno[1,2,3-cd]pyrene
Concen: 4131.45 ng/ml
RT: 9.030 min Scan# 2547
Delta R.T. -0.010 min
Lab File: 938280-2.D
Acq: 24 Jun 2024 12:18 pm

Tgt Ion:276 Resp: 19351

Ion	Ratio	Lower	Upper
276	100		
138	18.2	13.4	20.2

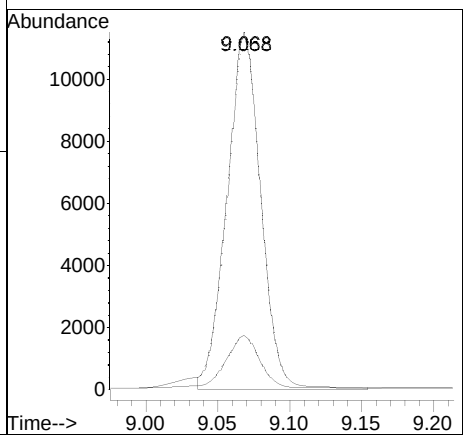


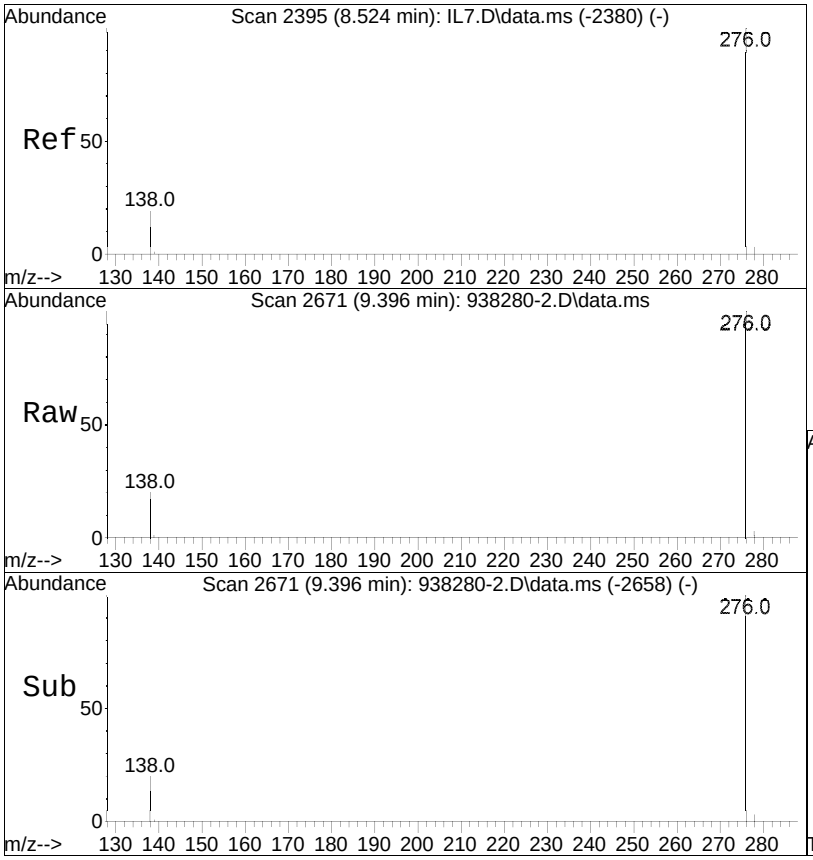


#41
Dibenzo[a,h]anthracene
Concen: 4100.58 ng/ml M6
RT: 9.068 min Scan# 2560
Delta R.T. -0.013 min
Lab File: 938280-2.D
Acq: 24 Jun 2024 12:18 pm

Tgt Ion:278 Resp: 18654

Ion	Ratio	Lower	Upper
278	100		
139	15.8	10.9	16.3

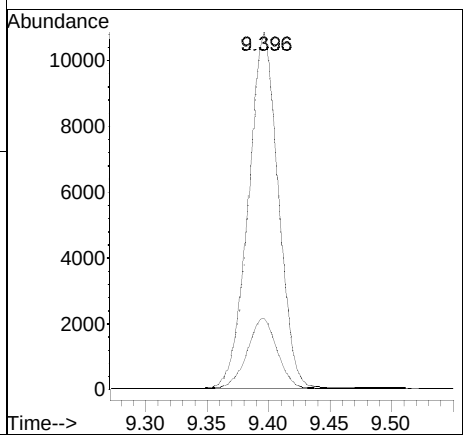




#42
Benzo[g,h,i]perylene
Concen: 3734.87 ng/ml M1
RT: 9.396 min Scan# 2671
Delta R.T. -0.010 min
Lab File: 938280-2.D
Acq: 24 Jun 2024 12:18 pm

Tgt Ion:276 Resp: 18183

Ion	Ratio	Lower	Upper
276	100		
138	19.7	14.8	22.2

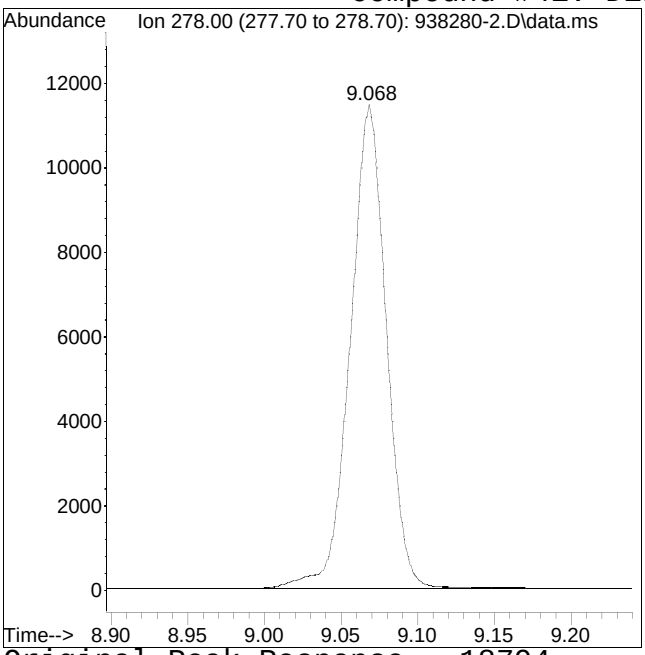


Manual Integration Report

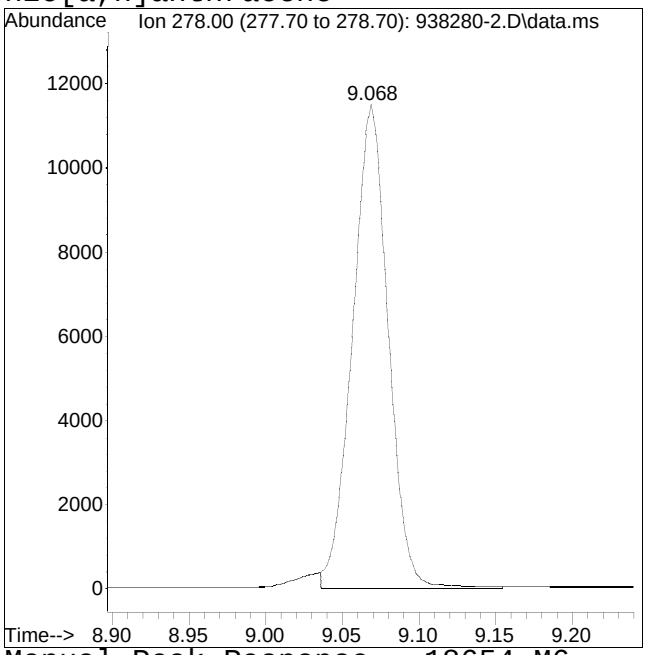
Data Path : I:\8270SIM\SV128\240624\
Data File : 938280-2.D
Date Inj'd : 6/24/2024 12:18 pm
Sample : WG1938280-2,32,,jjw

QMethod : SIM-LVI_231211_sv128.M
Operator : SV128:jjw
Instrument : SV128
Quant Date : 6/24/2024 12:32 pm

Compound #41: Dibenzo[a,h]anthracene



Original Peak Response = 18794



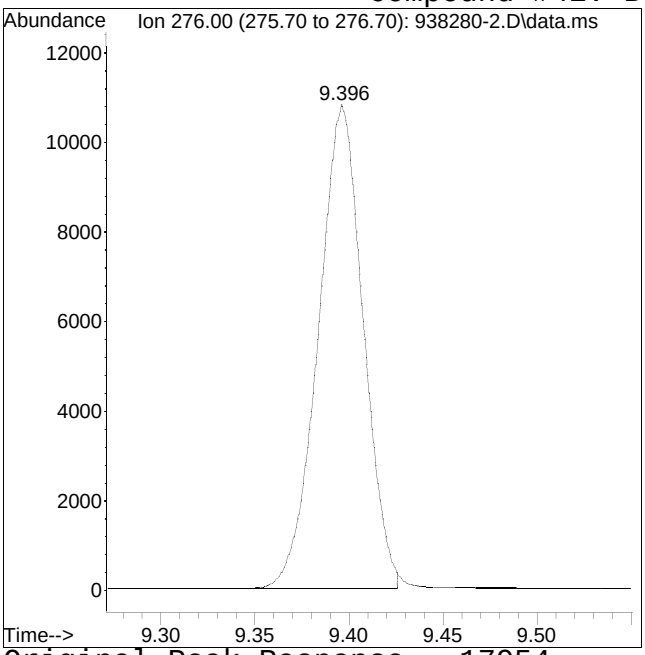
Manual Peak Response = 18654 M6

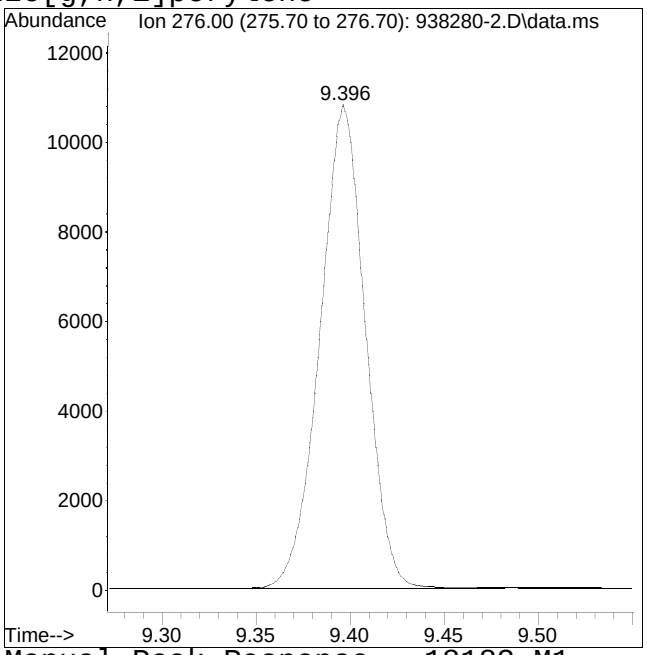
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

Data Path : I:\8270SIM\SV128\240624\ QMethod : SIM-LVI_231211_sv128.M
Data File : 938280-2.D Operator : SV128:jjw
Date Inj'd : 6/24/2024 12:18 pm Instrument : SV128
Sample : WG1938280-2,32,,jjw Quant Date : 6/24/2024 12:32 pm

Compound #42: Benzo[g,h,i]perylene





Original Peak Response = 17954 Manual Peak Response = 18183 M1
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV128\240625\
Data File : 938725-2.D
Acq On : 25 Jun 2024 11:02 am
Operator : SV128:rp
Sample : WG1938725-2,32,,jjw
Misc : WG1939038,WG1938725,ical20676
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 25 12:32:19 2024
Quant Method : I:\8270sim\sv128\240625\SIM-LVI_231211_sv128.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Jun 25 10:22:00 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270sim\sv128\240625\ccv0625.D
Sub List : DEFAULT - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.298	152	3329	4000.000	ng/ml	0.00
Standard Area 1 = 3868			Recovery = 86.07%			
8) Naphthalene-d8	2.970	136	12685	4000.000	ng/ml	0.00
Standard Area 1 = 14097			Recovery = 89.98%			
17) Acenaphthene-d10	3.957	164	7005	4000.000	ng/ml	0.00
Standard Area 1 = 8577			Recovery = 81.67%			
22) Phenanthrene-d10	4.807	188	15621	4000.000	ng/ml	0.00
Standard Area 1 = 20055			Recovery = 77.89%			
31) Chrysene-d12	6.388	240	14868	4000.000	ng/ml	0.00
Standard Area 1 = 19835			Recovery = 74.96%			
36) Perylene-d12	7.694	264	17110	4000.000	ng/ml	0.00
Standard Area 1 = 22257			Recovery = 76.87%			
System Monitoring Compounds						
2) 2-Fluorophenol	1.690	112	2358	2812.845	ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 56.26%			
3) Phenol-d6	2.101	99	2430	2480.340	ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 49.61%			
7) Nitrobenzene-d5	2.582	82	1633	2062.541	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 82.50%			
13) 2-Fluorobiphenyl	3.573	172	3900	1449.749	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 57.99%			
21) 2,4,6-Tribromophenol	4.409	330	1195	3413.791	ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 68.28%			
30) 4-Terphenyl-d14	5.729	244	5270	1619.336	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 64.77%			
Target Compounds						Qvalue
6) Hexachloroethane	2.564	117	1175	2955.409	ng/ml	94
9) Naphthalene	2.983	128	9497	2919.485	ng/ml#	98
10) Hexachlorobutadiene	3.056	225	1850	2482.711	ng/ml	96
11) 2-Methylnaphthalene	3.365	142	6161	2964.790	ng/ml	99
14) 2-Chloronaphthalene	3.640	162	6499	2872.755	ng/ml	91
16) Acenaphthylene	3.875	152	10107	3015.883	ng/ml	98
18) Acenaphthene	3.976	153	7051	2977.643	ng/ml	91
20) Fluorene	4.272	166	7535	3152.901	ng/ml	98
24) Hexachlorobenzene	4.591	284	2789	2683.162	ng/ml	92
25) Pentachlorophenol	4.704	266	1794	3513.758	ng/ml	94

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV128\240625\
Data File : 938725-2.D
Acq On : 25 Jun 2024 11:02 am
Operator : SV128:rp
Sample : WG1938725-2,32,,jjw
Misc : WG1939038,WG1938725,ical20676
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 25 12:32:19 2024
Quant Method : I:\8270sim\sv128\240625\SIM-LVI_231211_sv128.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Jun 25 10:22:00 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270sim\sv128\240625\ccv0625.D
Sub List : DEFAULT - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
26) Phenanthrene	4.822	178	12583	2978.864	ng/ml	100
27) Anthracene	4.848	178	12916	3164.473	ng/ml	100
28) Fluoranthene	5.508	202	15621	3366.005	ng/ml	98
29) Pyrene	5.639	202	16821	3503.244	ng/ml	99
32) Benzo[a]anthracene	6.380	228	16557	3099.734	ng/ml	100
34) Chrysene	6.407	228	15828	3087.931	ng/ml	100
37) Benzo[b]fluoranthene	7.295	252	17309	3266.690	ng/ml	100
38) Benzo[k]fluoranthene	7.320	252	16295	3304.684	ng/ml	100
39) Benzo[a]pyrene	7.628	252	15197	3257.029	ng/ml	100
40) Indeno[1,2,3-cd]pyrene	9.010	276	15874	3402.382	ng/ml	99
41) Dibenzo[a,h]anthracene	9.051	278	15664M6	3456.793	ng/ml	
42) Benzo[g,h,i]perylene	9.373	276	15295	3153.963	ng/ml	98

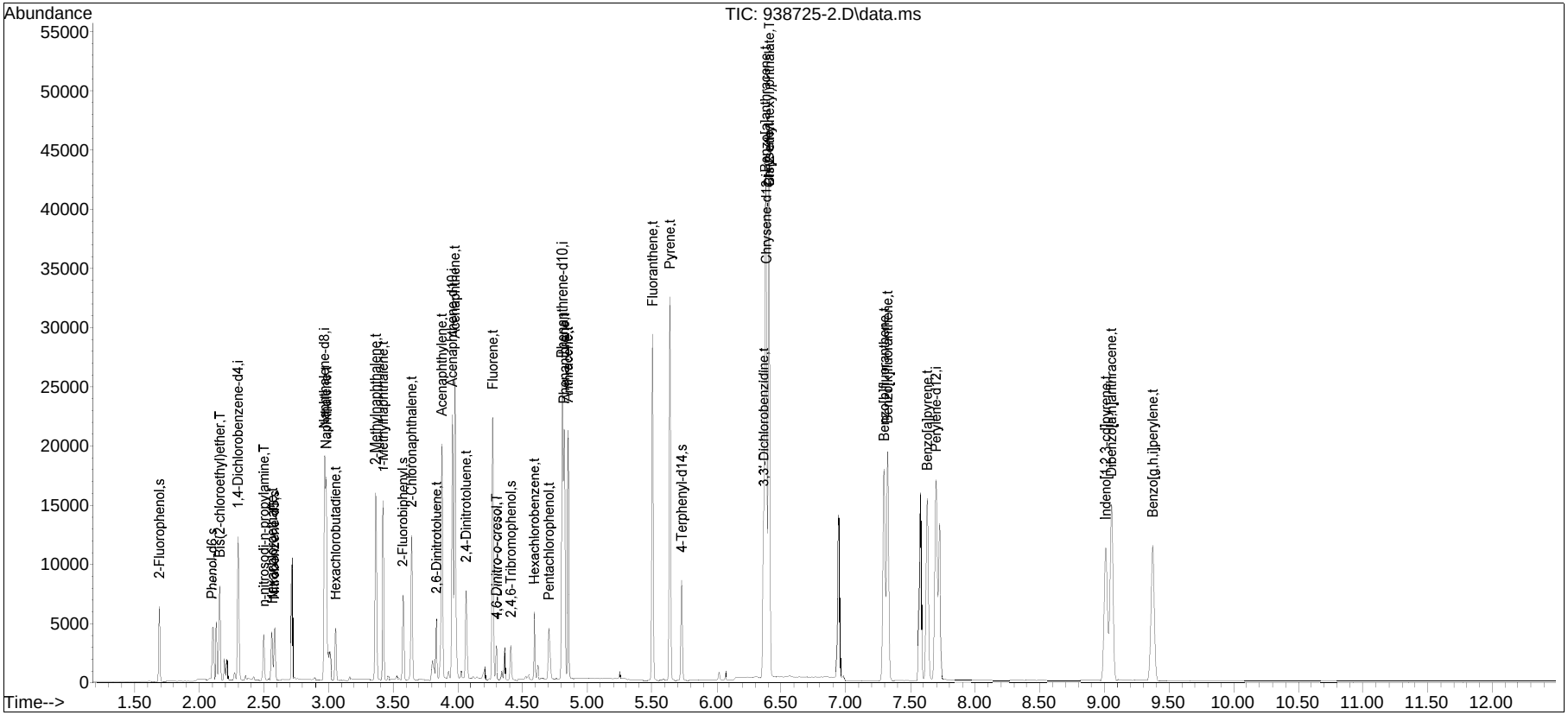
(#) = qualifier out of range (m) = manual integration (+) = signals summed

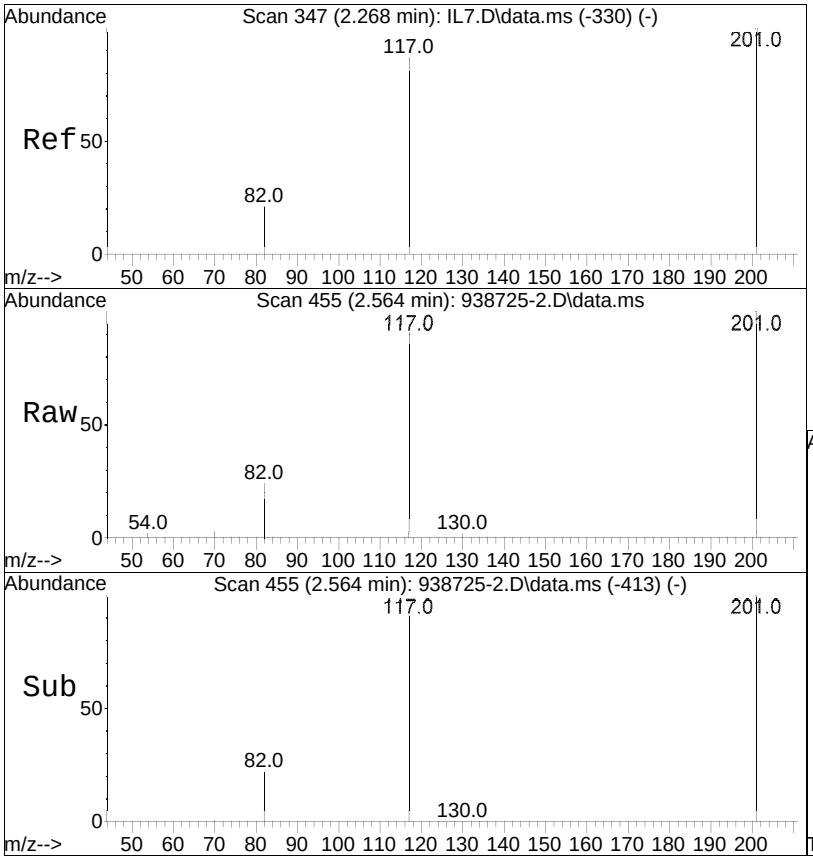
Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV128\240625\
Data File : 938725-2.D
Acq On : 25 Jun 2024 11:02 am
Operator : SV128:rp
Sample : WG1938725-2,32,,jjw
Misc : WG1939038,WG1938725,ical20676
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 25 12:32:19 2024
Quant Method : I:\8270sim\sv128\240625\SIM-LVI_231211_sv128.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Jun 25 10:22:00 2024
Response via : Initial Calibration

Sub List : DEFAULT - All compounds listedv0625.D•

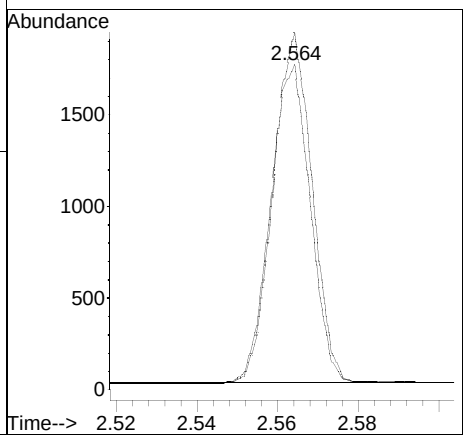


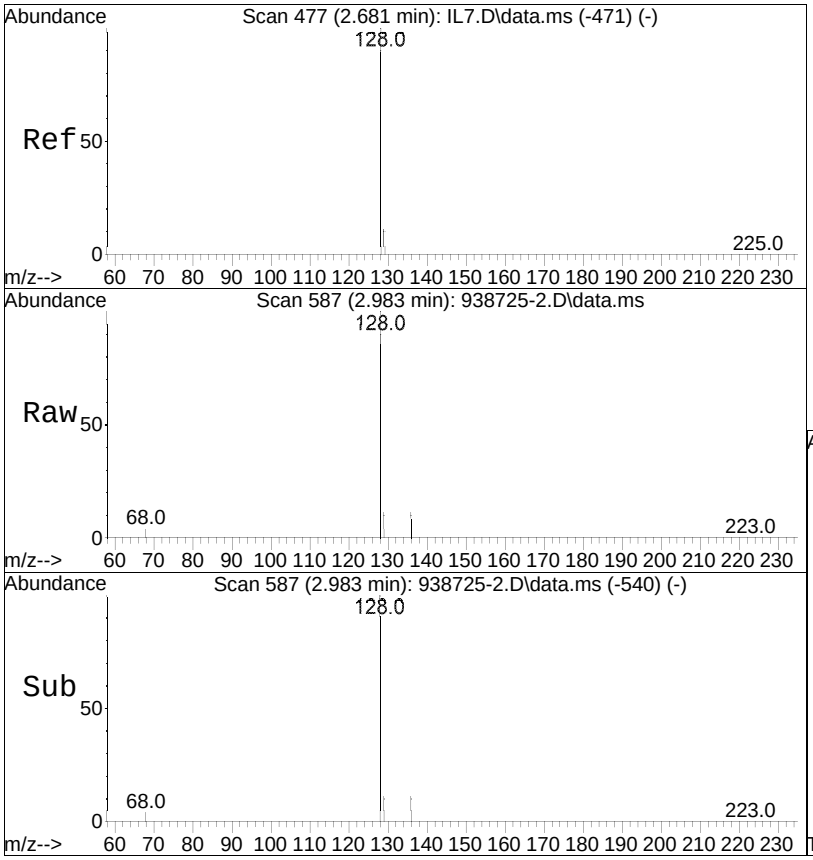


#6
Hexachloroethane
Concen: 2955.41 ng/ml
RT: 2.564 min Scan# 455
Delta R.T. -0.005 min
Lab File: 938725-2.D
Acq: 25 Jun 2024 11:02 am

Tgt Ion:117 Resp: 1175

Ion	Ratio	Lower	Upper
117	100		
201	107.9	91.8	137.6

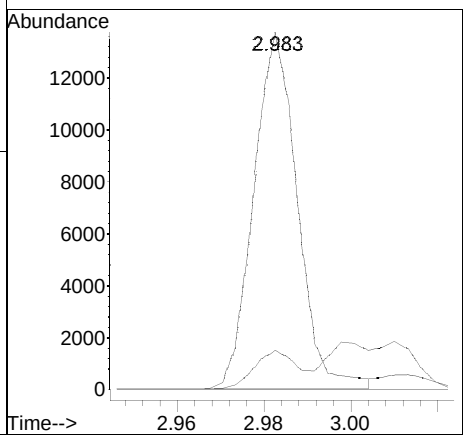


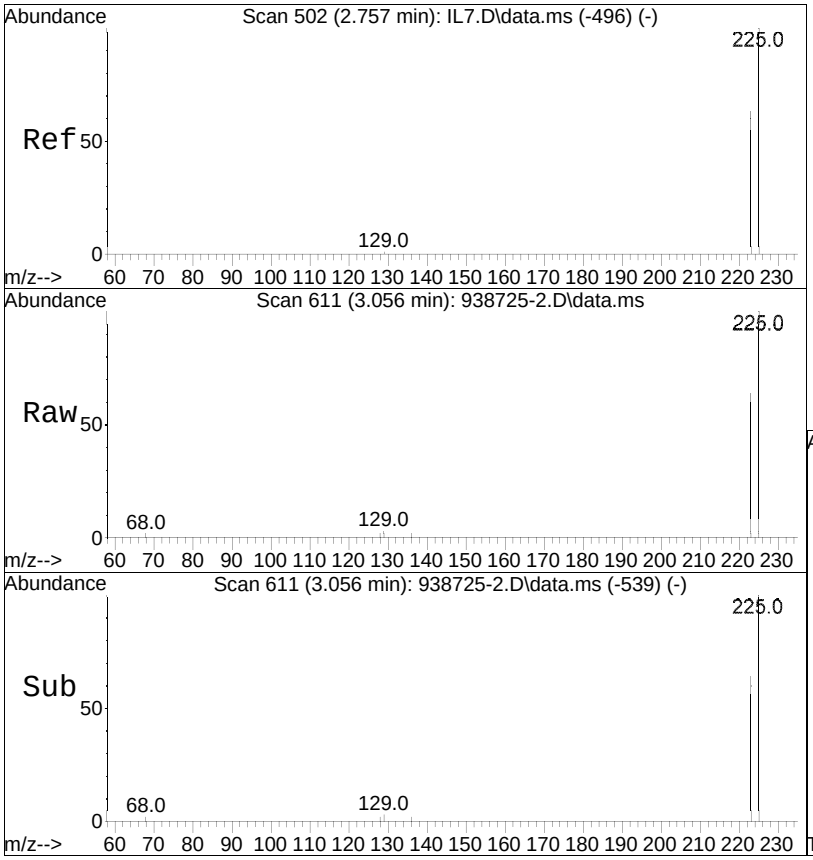


#9
Naphthalene
Concen: 2919.49 ng/ml
RT: 2.983 min Scan# 587
Delta R.T. -0.005 min
Lab File: 938725-2.D
Acq: 25 Jun 2024 11:02 am

Tgt Ion:128 Resp: 9497

Ion	Ratio	Lower	Upper
128	100		
129	11.6	8.8	13.2
127	0.0	0.0	0.0

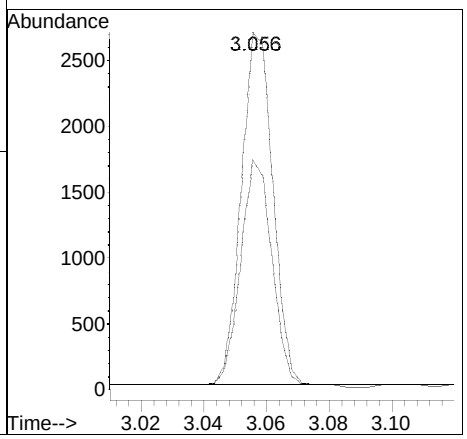


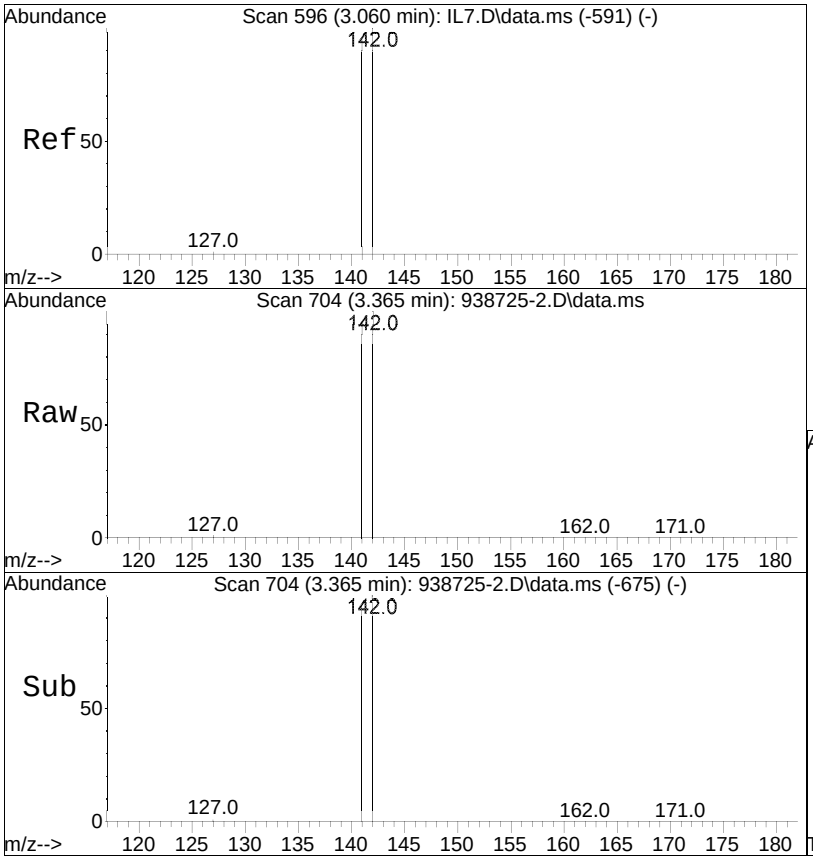


#10
Hexachlorobutadiene
Concen: 2482.71 ng/ml
RT: 3.056 min Scan# 611
Delta R.T. -0.008 min
Lab File: 938725-2.D
Acq: 25 Jun 2024 11:02 am

Tgt Ion:225 Resp: 1850

Ion	Ratio	Lower	Upper
225	100		
223	65.4	49.9	74.9

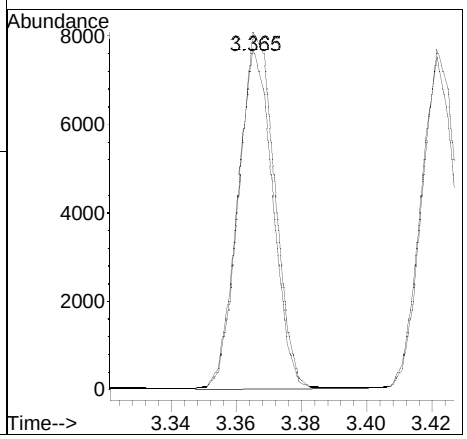


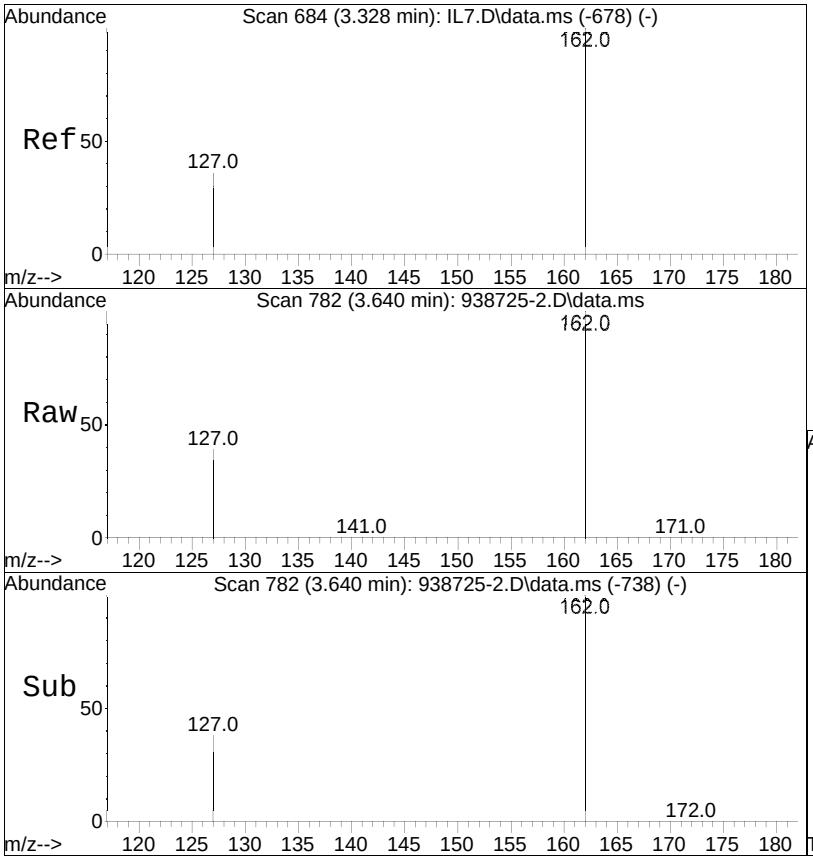


#11
2-Methylnaphthalene
Concen: 2964.79 ng/ml
RT: 3.365 min Scan# 704
Delta R.T. -0.009 min
Lab File: 938725-2.D
Acq: 25 Jun 2024 11:02 am

Tgt Ion:142 Resp: 6161

Ion	Ratio	Lower	Upper
142	100		
141	93.7	75.9	113.9

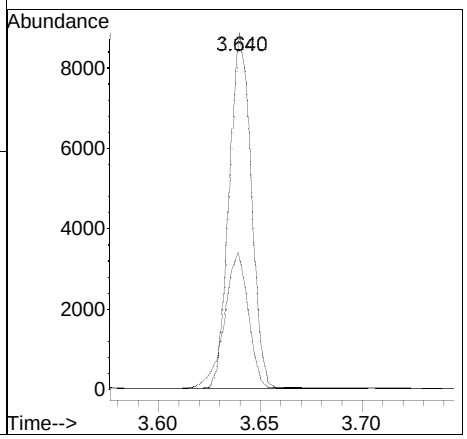


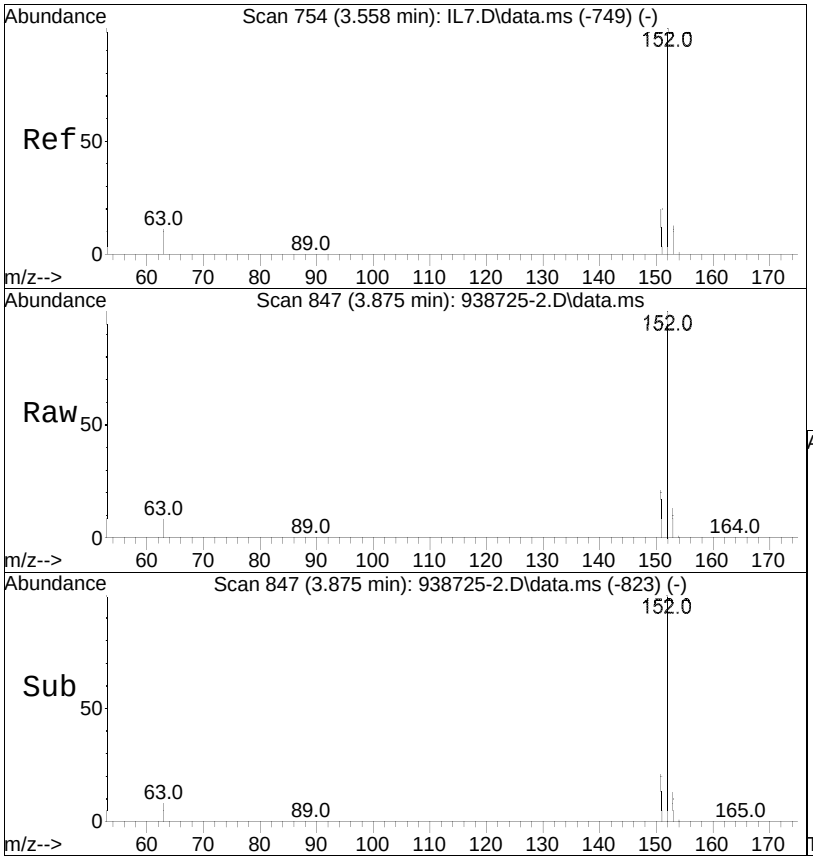


#14
2-Chloronaphthalene
Concen: 2872.75 ng/ml
RT: 3.640 min Scan# 782
Delta R.T. -0.006 min
Lab File: 938725-2.D
Acq: 25 Jun 2024 11:02 am

Tgt Ion:162 Resp: 6499

Ion	Ratio	Lower	Upper
162	100		
127	41.9	29.3	43.9

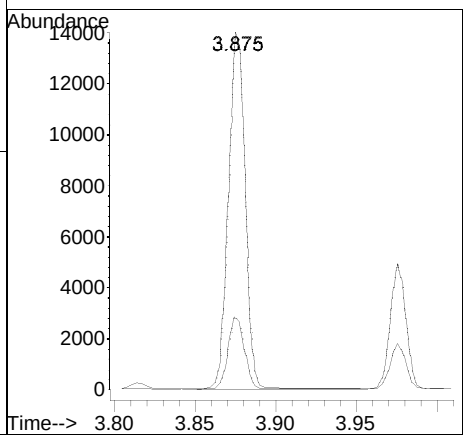


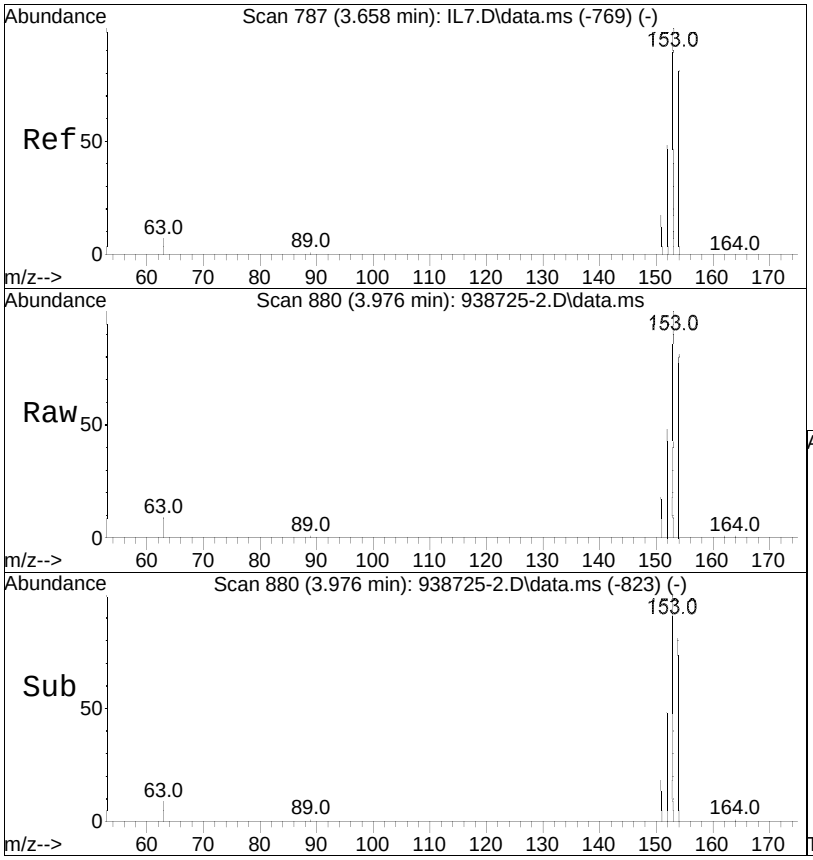


#16
Acenaphthylene
Concen: 3015.88 ng/ml
RT: 3.875 min Scan# 847
Delta R.T. -0.007 min
Lab File: 938725-2.D
Acq: 25 Jun 2024 11:02 am

Tgt Ion:152 Resp: 10107

Ion	Ratio	Lower	Upper
152	100		
151	19.6	16.4	24.6

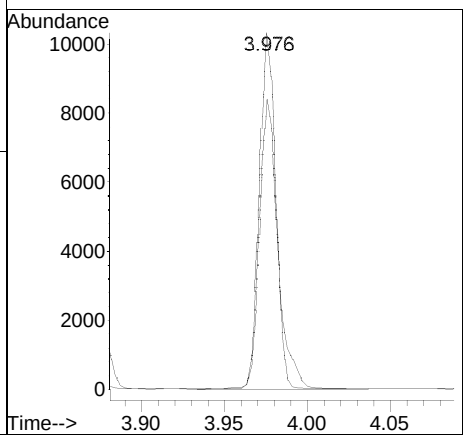


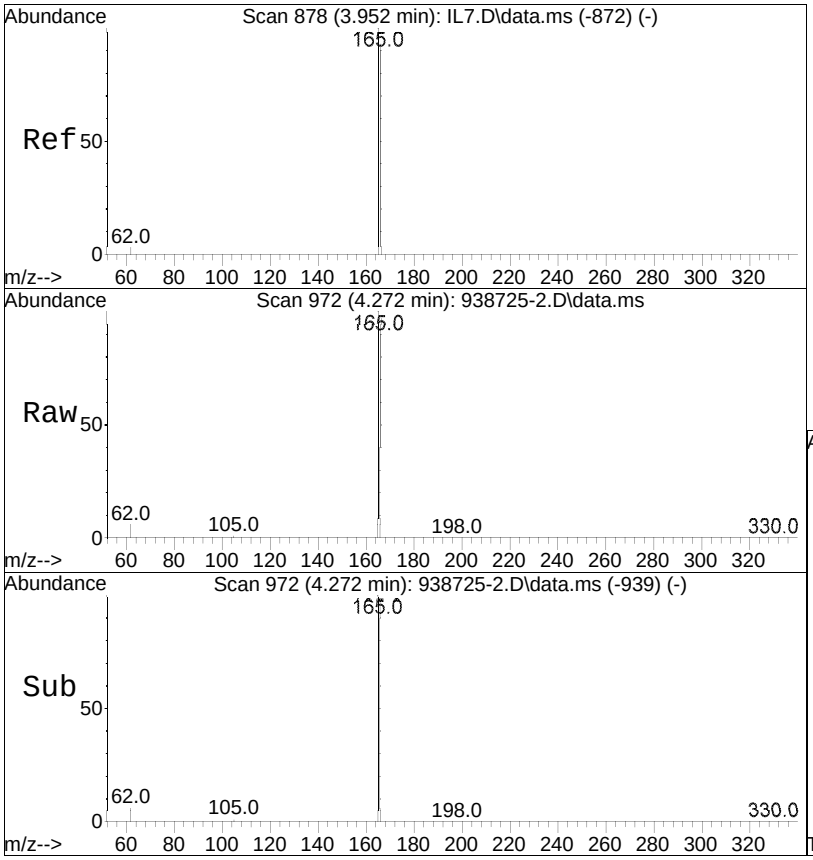


#18
Acenaphthene
Concen: 2977.64 ng/ml
RT: 3.976 min Scan# 880
Delta R.T. -0.007 min
Lab File: 938725-2.D
Acq: 25 Jun 2024 11:02 am

Tgt Ion:153 Resp: 7051

Ion	Ratio	Lower	Upper
153	100		
154	89.9	65.8	98.6

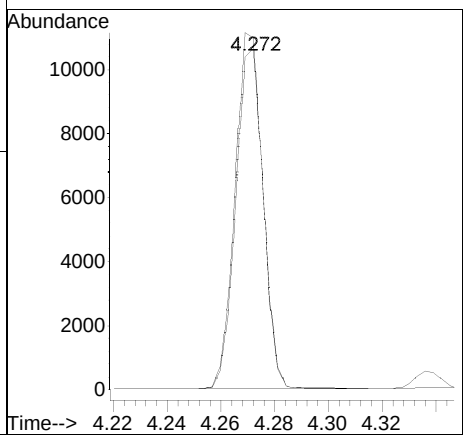


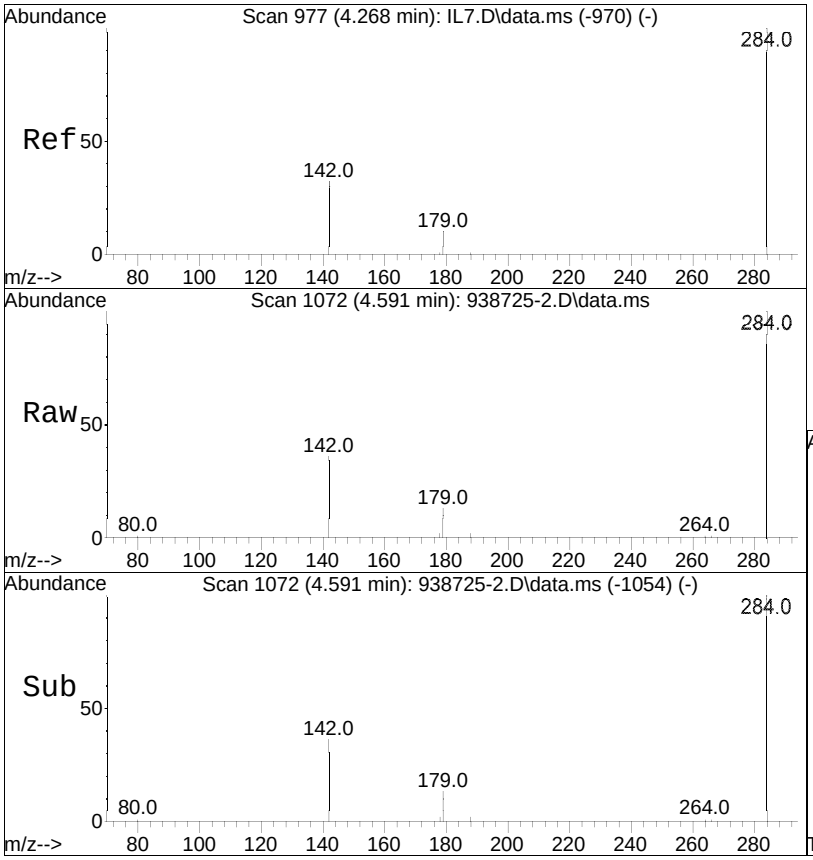


#20
Fluorene
Concen: 3152.90 ng/ml
RT: 4.272 min Scan# 972
Delta R.T. -0.004 min
Lab File: 938725-2.D
Acq: 25 Jun 2024 11:02 am

Tgt Ion:166 Resp: 7535

Ion	Ratio	Lower	Upper
166	100		
165	105.5	85.7	128.5

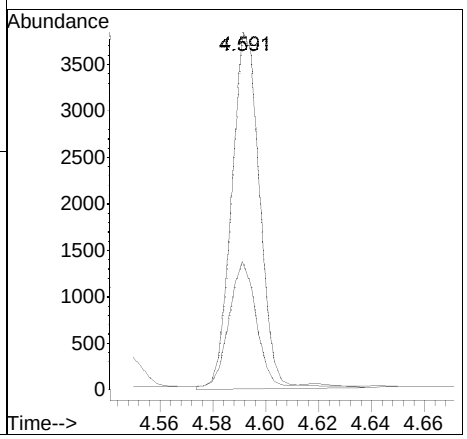


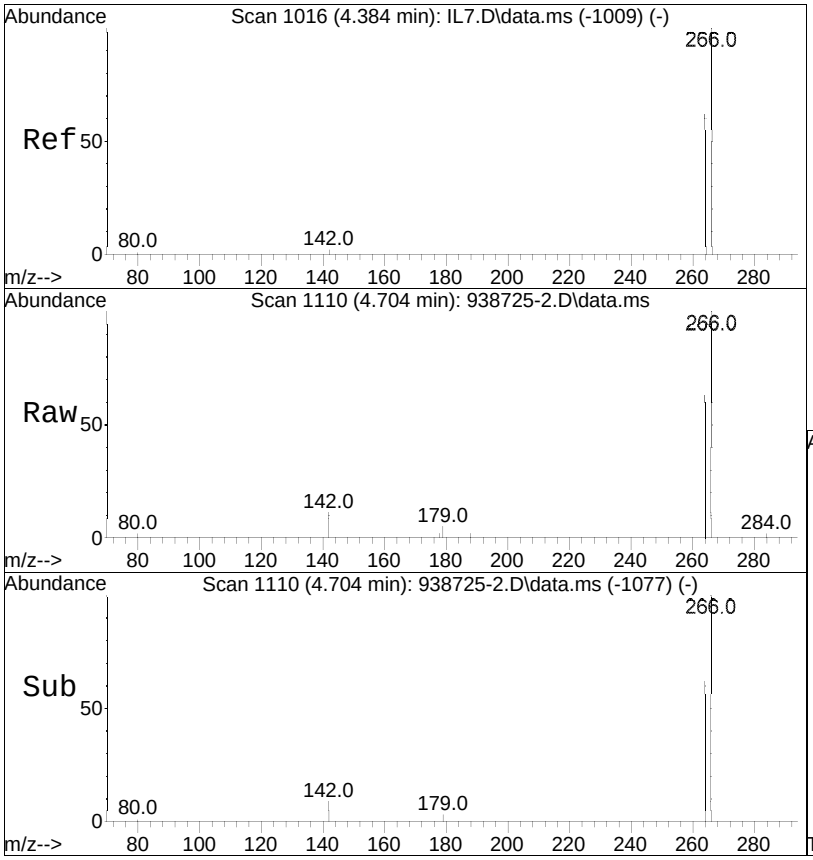


#24
Hexachlorobenzene
Concen: 2683.16 ng/ml
RT: 4.591 min Scan# 1072
Delta R.T. -0.007 min
Lab File: 938725-2.D
Acq: 25 Jun 2024 11:02 am

Tgt Ion:284 Resp: 2789

Ion	Ratio	Lower	Upper
284	100		
142	34.5	23.9	35.9

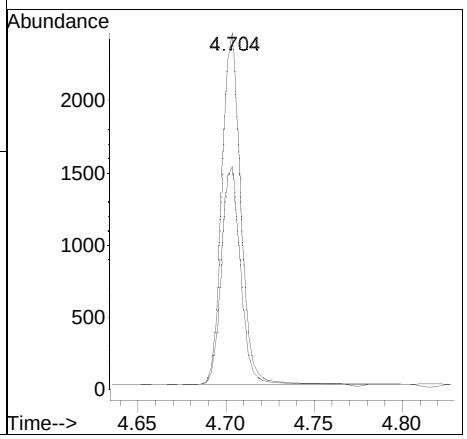


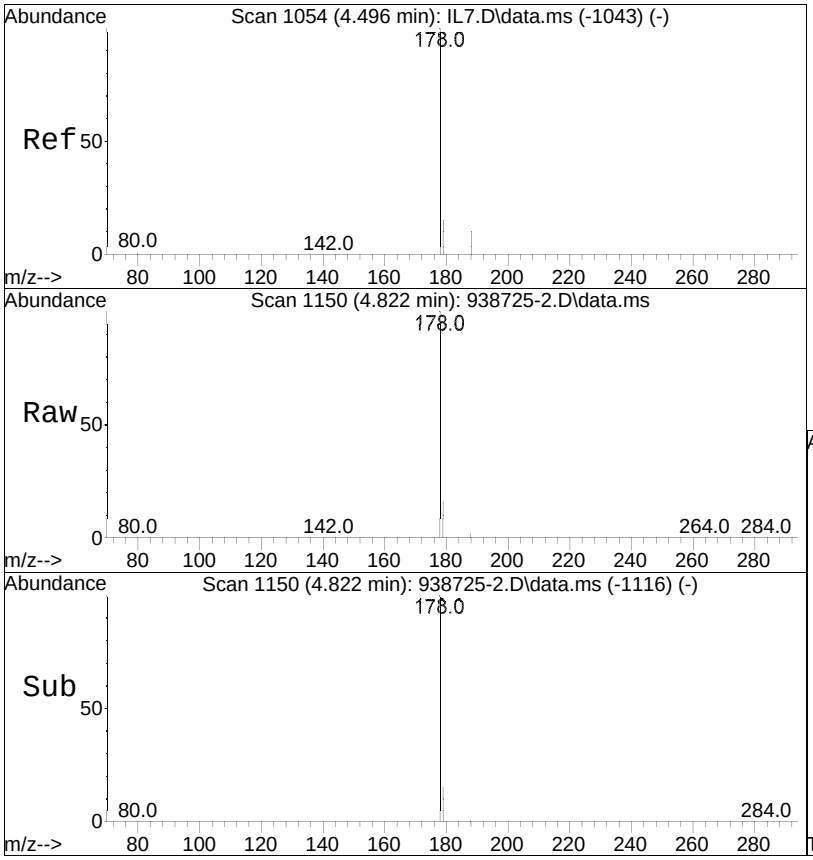


#25
Pentachlorophenol
Concen: 3513.76 ng/ml
RT: 4.704 min Scan# 1110
Delta R.T. -0.004 min
Lab File: 938725-2.D
Acq: 25 Jun 2024 11:02 am

Tgt Ion:266 Resp: 1794

Ion	Ratio	Lower	Upper
266	100		
264	66.8	49.7	74.5

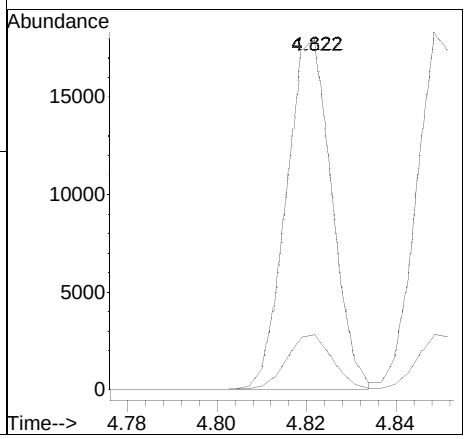


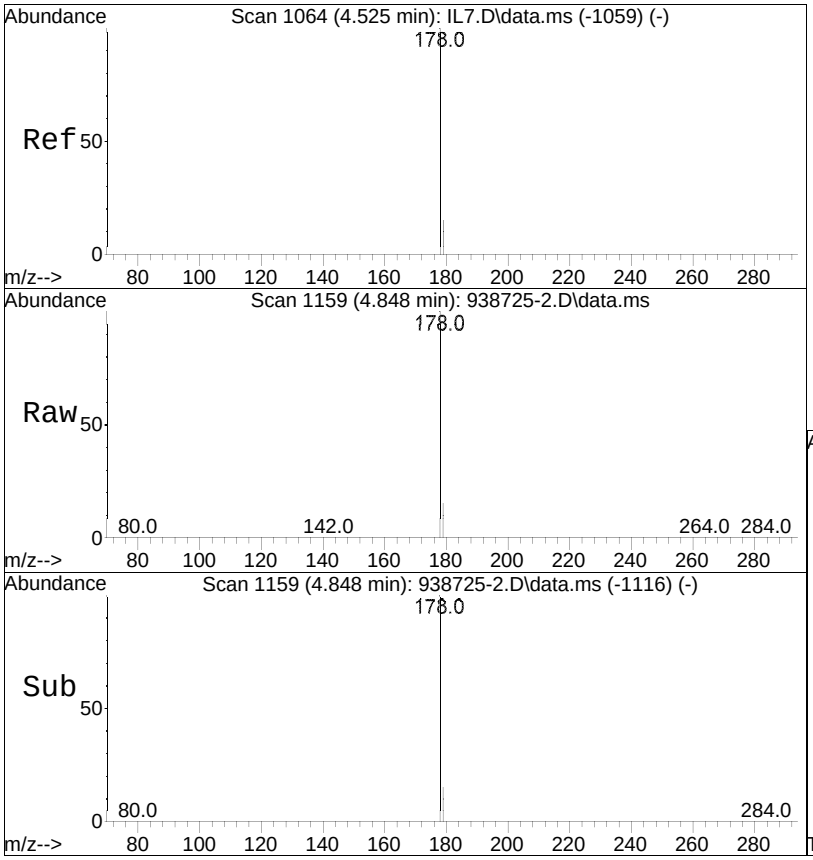


#26
Phenanthrene
Concen: 2978.86 ng/ml
RT: 4.822 min Scan# 1150
Delta R.T. -0.004 min
Lab File: 938725-2.D
Acq: 25 Jun 2024 11:02 am

Tgt Ion:178 Resp: 12583

Ion	Ratio	Lower	Upper
178	100		
179	15.5	12.2	18.4

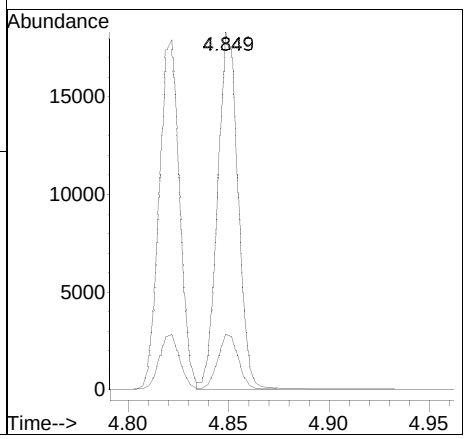


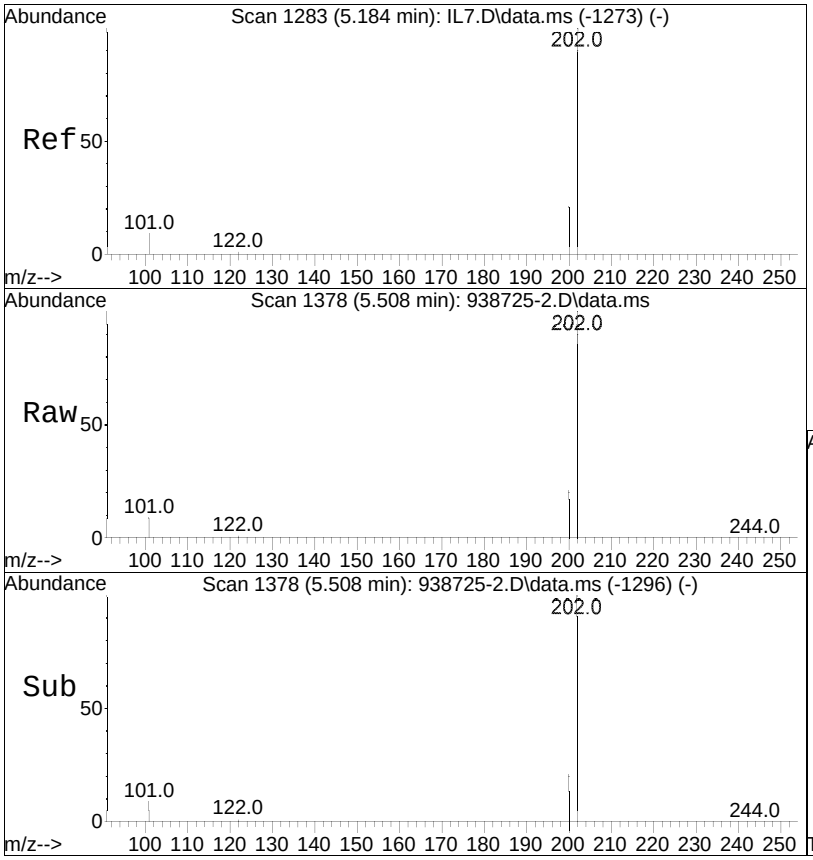


#27
Anthracene
Concen: 3164.47 ng/ml
RT: 4.848 min Scan# 1159
Delta R.T. -0.007 min
Lab File: 938725-2.D
Acq: 25 Jun 2024 11:02 am

Tgt Ion:178 Resp: 12916

Ion	Ratio	Lower	Upper
178	100		
179	15.2	12.2	18.2

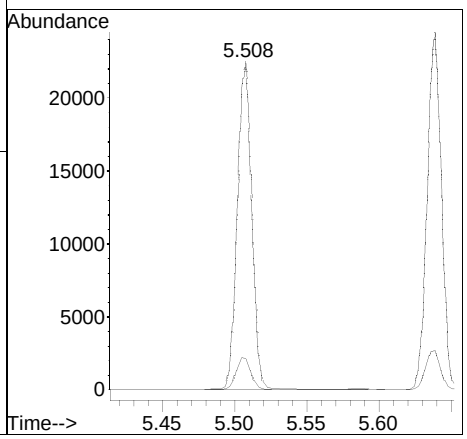


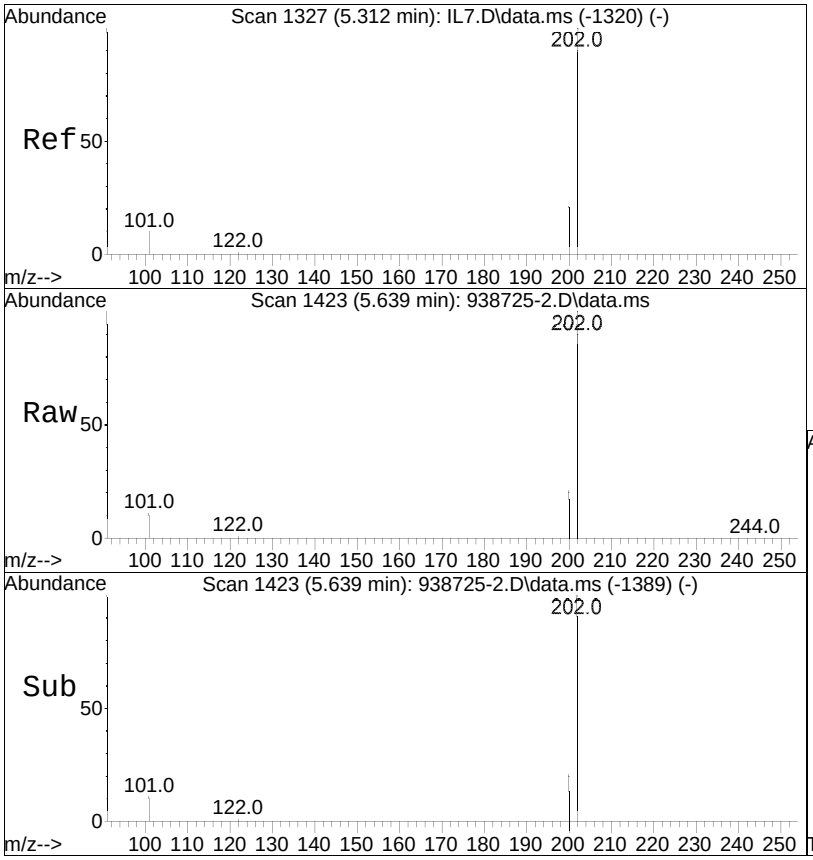


#28
Fluoranthene
Concen: 3366.01 ng/ml
RT: 5.508 min Scan# 1378
Delta R.T. -0.004 min
Lab File: 938725-2.D
Acq: 25 Jun 2024 11:02 am

Tgt Ion:202 Resp: 15621

Ion	Ratio	Lower	Upper
202	100		
101	9.7	7.2	10.8

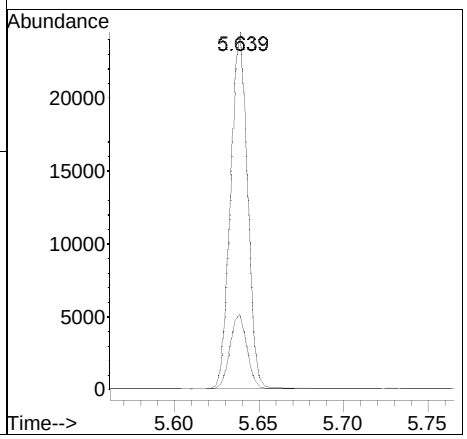


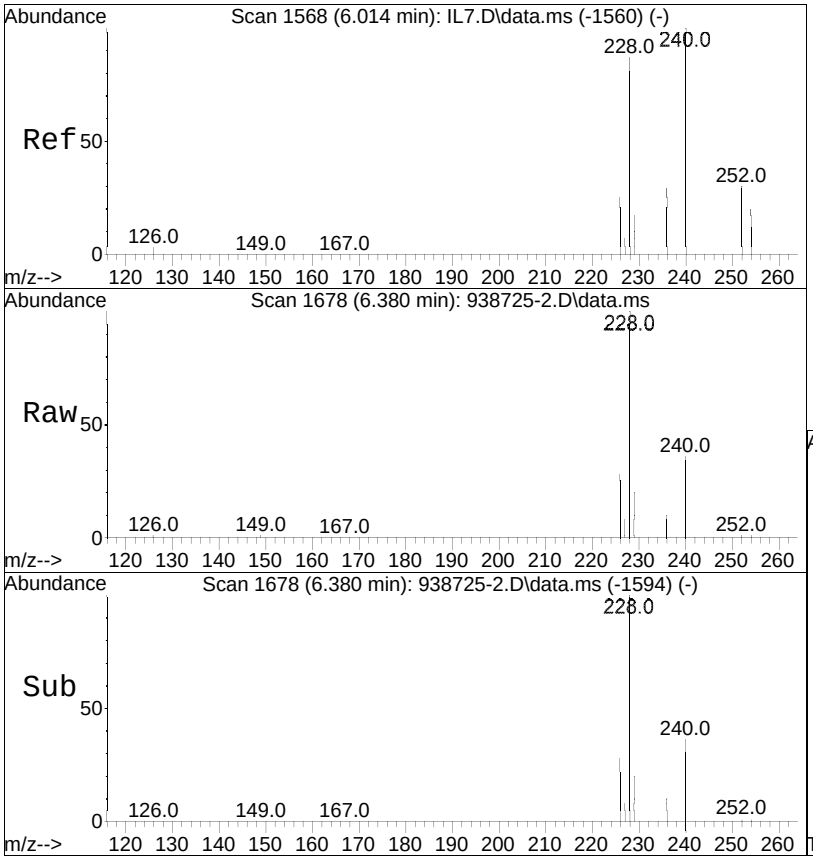


#29
Pyrene
Concen: 3503.24 ng/ml
RT: 5.639 min Scan# 1423
Delta R.T. -0.004 min
Lab File: 938725-2.D
Acq: 25 Jun 2024 11:02 am

Tgt Ion:202 Resp: 16821

Ion	Ratio	Lower	Upper
202	100		
200	21.7	17.7	26.5

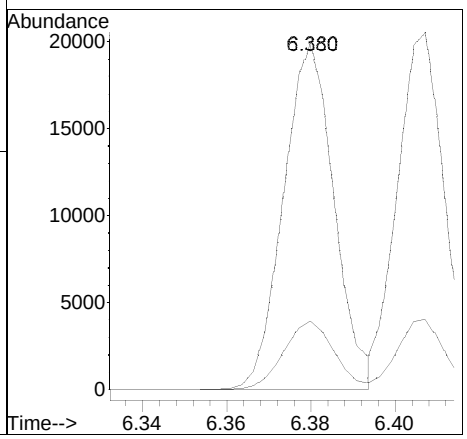


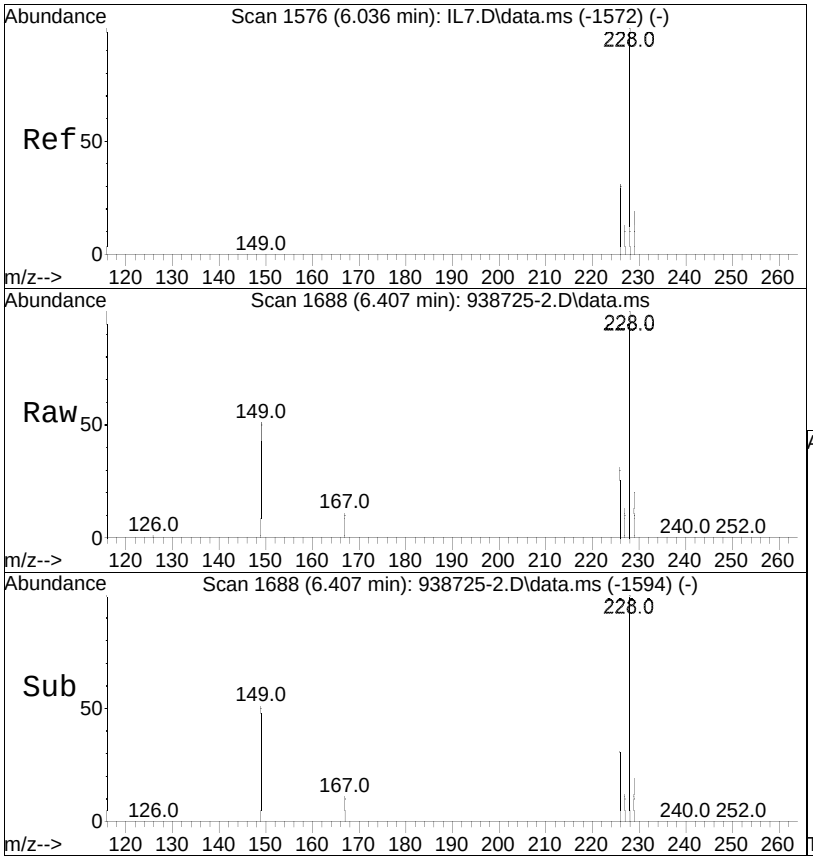


#32
Benzo[a]anthracene
Concen: 3099.73 ng/ml
RT: 6.380 min Scan# 1678
Delta R.T. -0.004 min
Lab File: 938725-2.D
Acq: 25 Jun 2024 11:02 am

Tgt Ion:228 Resp: 16557

Ion	Ratio	Lower	Upper
228	100		
229	19.5	15.7	23.5

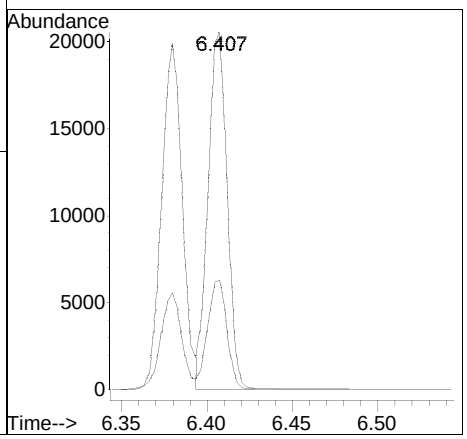


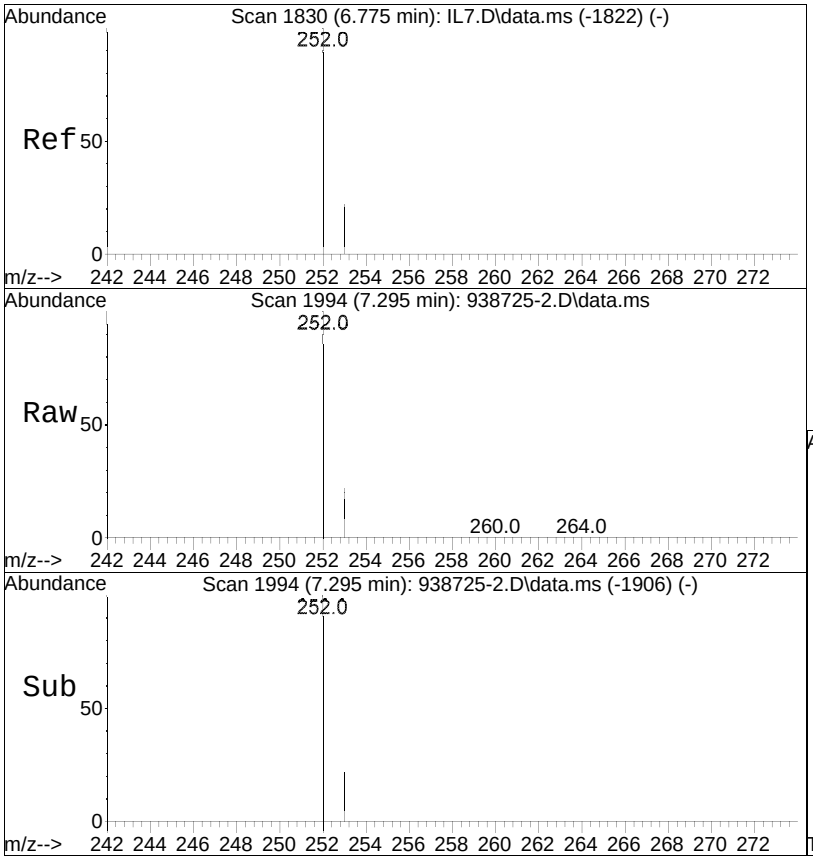


#34
Chrysene
Concen: 3087.93 ng/ml
RT: 6.407 min Scan# 1688
Delta R.T. -0.001 min
Lab File: 938725-2.D
Acq: 25 Jun 2024 11:02 am

Tgt Ion:228 Resp: 15828

Ion	Ratio	Lower	Upper
228	100		
226	30.9	24.6	36.8

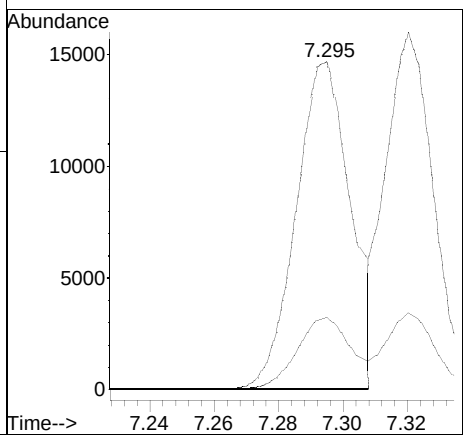


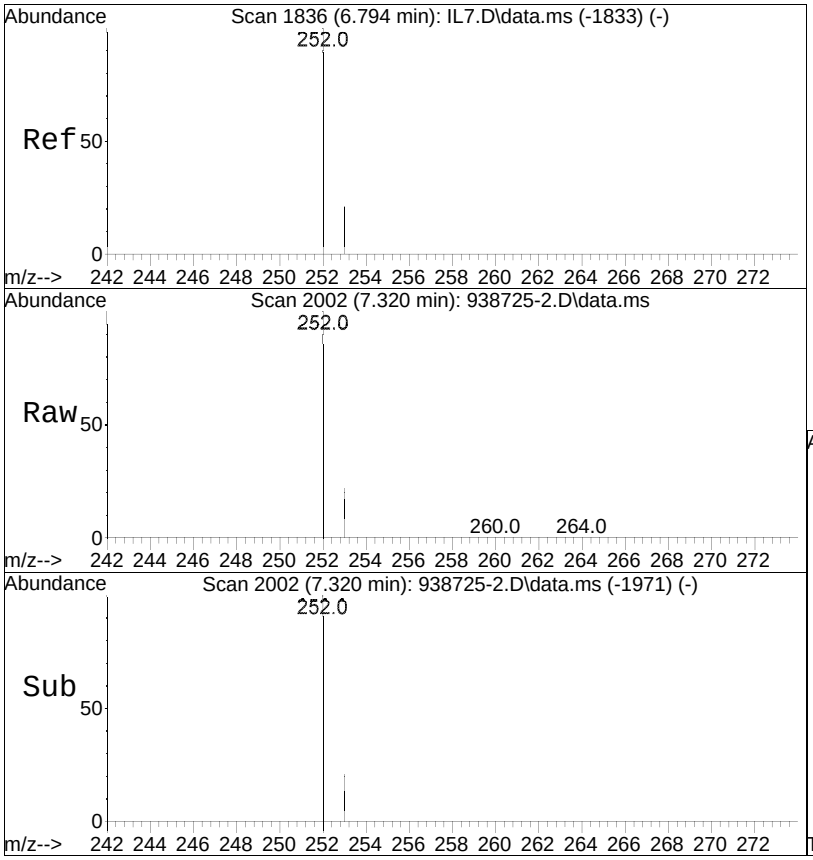


#37
Benzo[b]fluoranthene
Concen: 3266.69 ng/ml
RT: 7.295 min Scan# 1994
Delta R.T. -0.001 min
Lab File: 938725-2.D
Acq: 25 Jun 2024 11:02 am

Tgt Ion:252 Resp: 17309

Ion	Ratio	Lower	Upper
252	100		
253	21.6	17.1	25.7

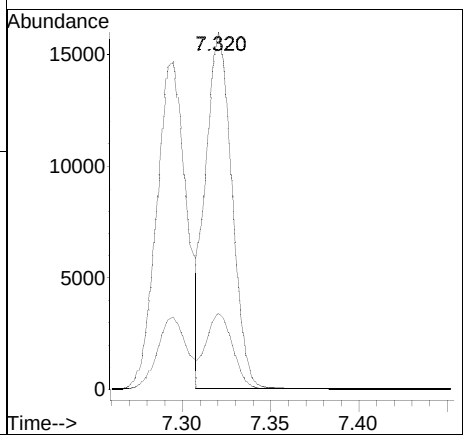


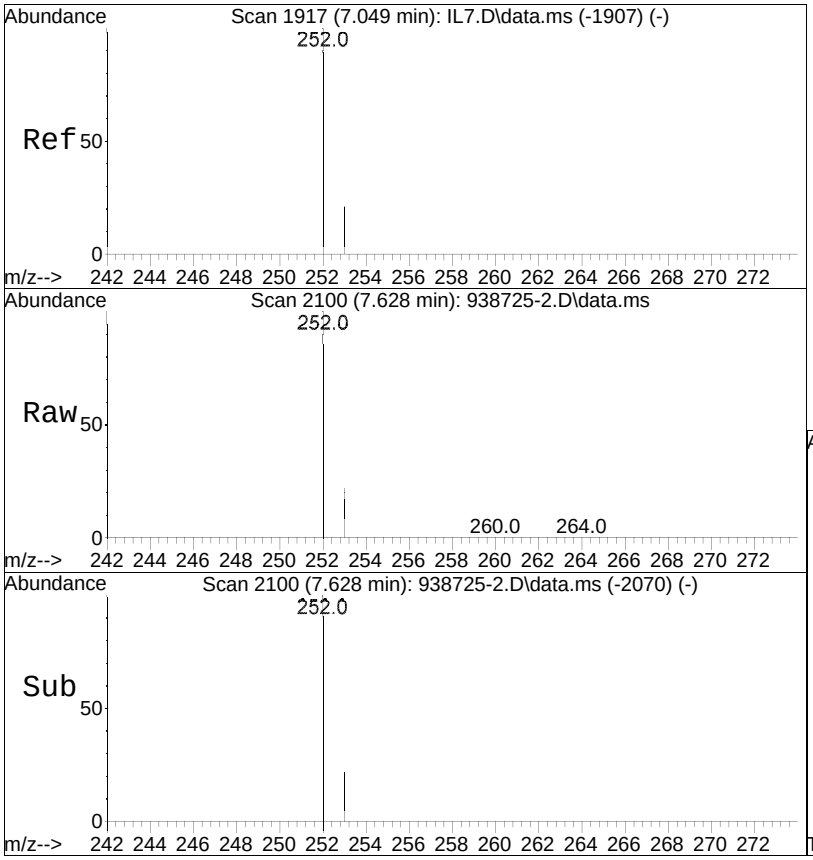


#38
Benzo[k]fluoranthene
Concen: 3304.68 ng/ml
RT: 7.320 min Scan# 2002
Delta R.T. -0.001 min
Lab File: 938725-2.D
Acq: 25 Jun 2024 11:02 am

Tgt Ion:252 Resp: 16295

Ion	Ratio	Lower	Upper
252	100		
253	21.7	17.3	25.9

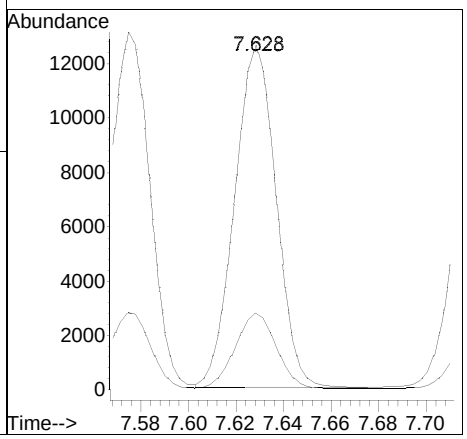


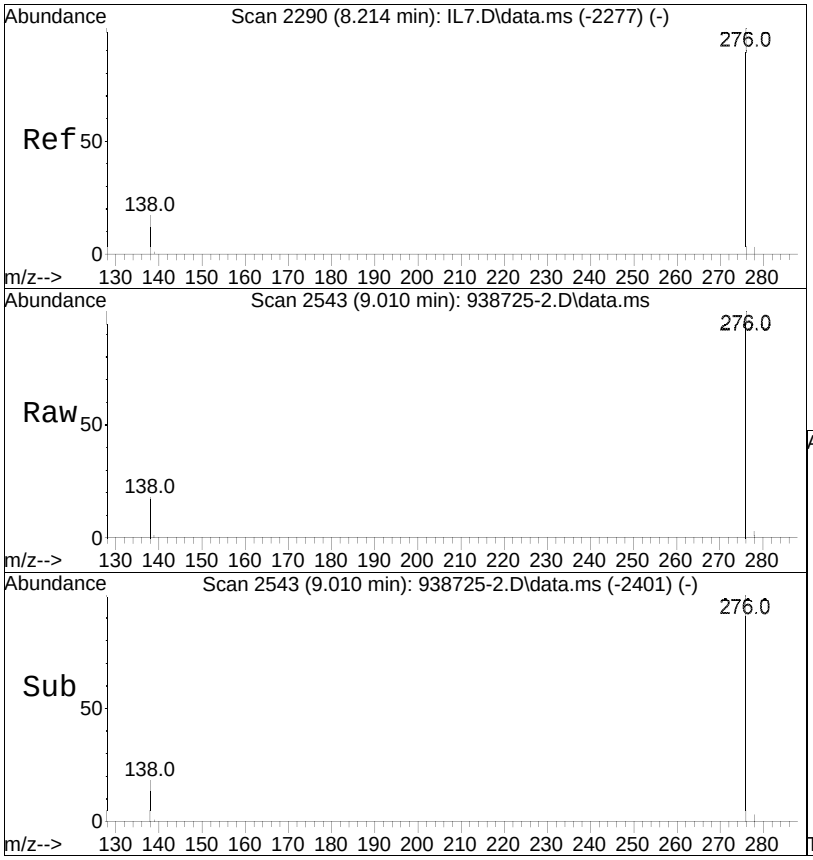


#39
Benzo[a]pyrene
Concen: 3257.03 ng/ml
RT: 7.628 min Scan# 2100
Delta R.T. -0.004 min
Lab File: 938725-2.D
Acq: 25 Jun 2024 11:02 am

Tgt Ion:252 Resp: 15197

Ion	Ratio	Lower	Upper
252	100		
253	21.7	17.3	25.9

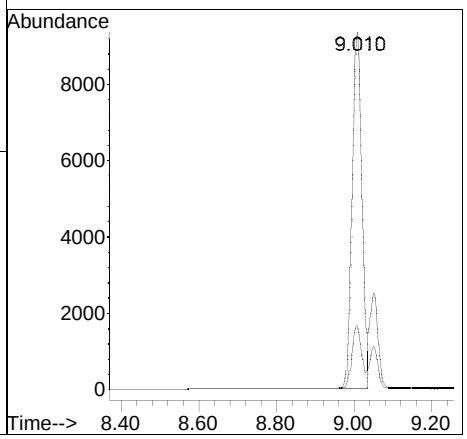


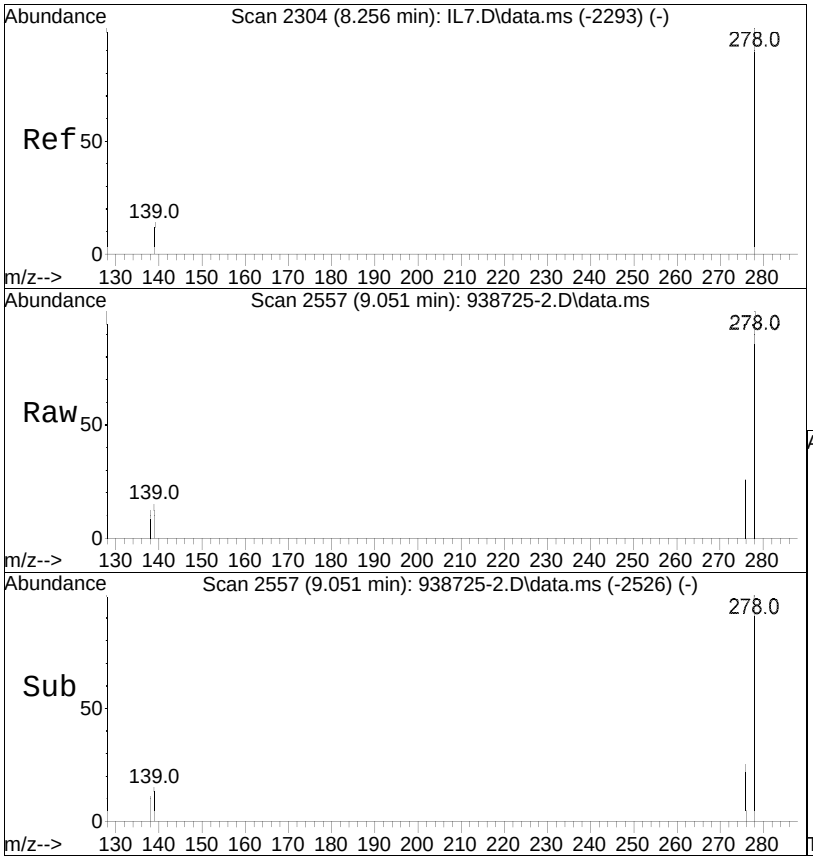


#40
Indeno[1,2,3-cd]pyrene
Concen: 3402.38 ng/ml
RT: 9.010 min Scan# 2543
Delta R.T. -0.007 min
Lab File: 938725-2.D
Acq: 25 Jun 2024 11:02 am

Tgt Ion:276 Resp: 15874

Ion	Ratio	Lower	Upper
276	100		
138	17.4	13.4	20.2

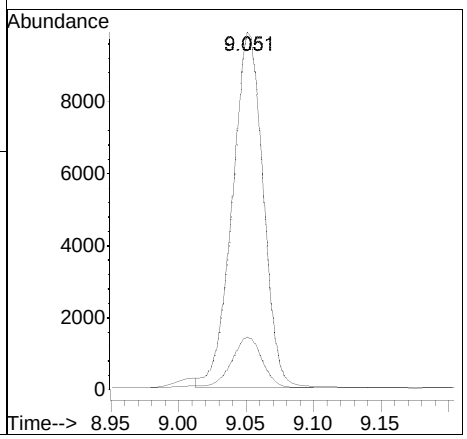


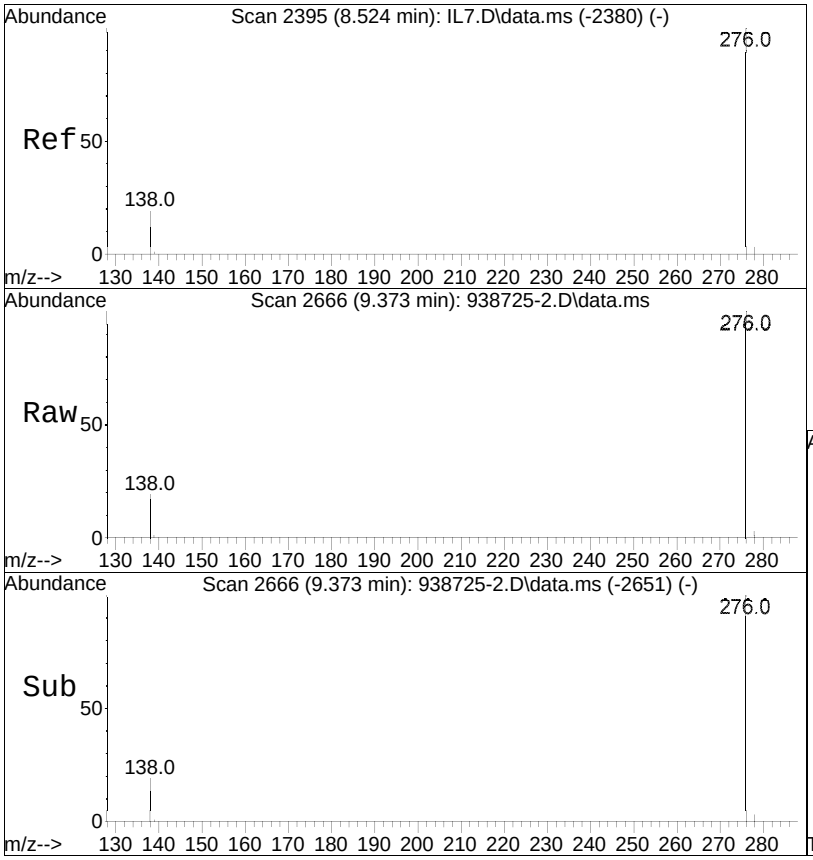


#41
Dibenzo[a,h]anthracene
Concen: 3456.79 ng/ml M6
RT: 9.051 min Scan# 2557
Delta R.T. -0.007 min
Lab File: 938725-2.D
Acq: 25 Jun 2024 11:02 am

Tgt Ion:278 Resp: 15664

Ion	Ratio	Lower	Upper
278	100		
139	14.8	10.9	16.3

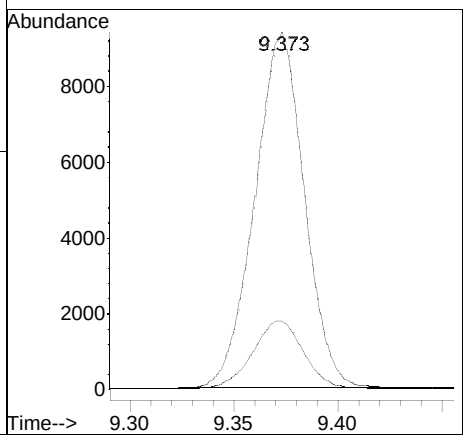




#42
Benzo[g,h,i]perylene
Concen: 3153.96 ng/ml
RT: 9.373 min Scan# 2666
Delta R.T. -0.007 min
Lab File: 938725-2.D
Acq: 25 Jun 2024 11:02 am

Tgt Ion:276 Resp: 15295

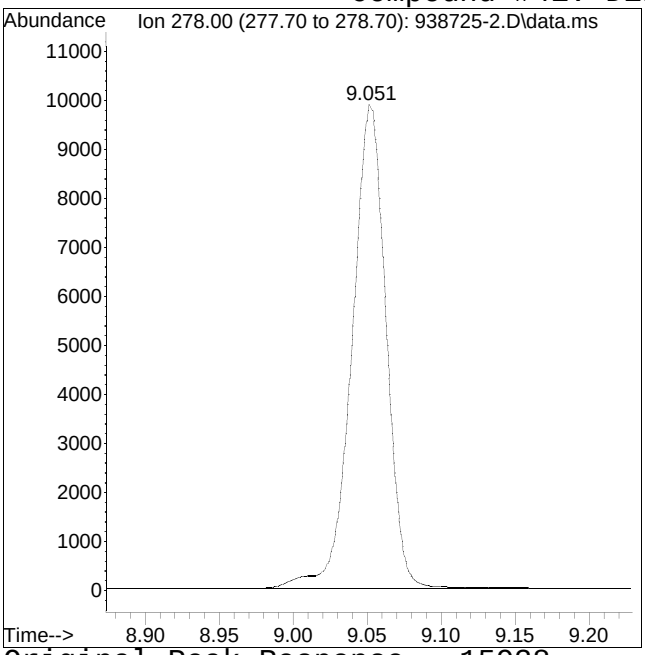
Ion	Ratio	Lower	Upper
276	100		
138	19.4	14.8	22.2



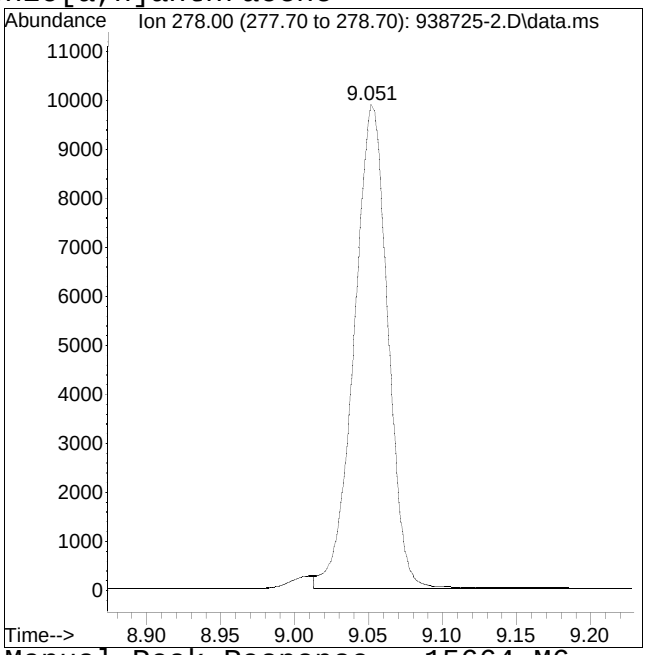
Manual Integration Report

Data Path : I:\8270SIM\SV128\240625\ QMethod : SIM-LVI_231211_sv128.M
Data File : 938725-2.D Operator : SV128:rp
Date Inj'd : 6/25/2024 11:02 am Instrument : SV128
Sample : WG1938725-2,32,,jjw Quant Date : 6/25/2024 11:18 am

Compound #41: Dibenzo[a,h]anthracene



Original Peak Response = 15938



Manual Peak Response = 15664 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV128\240624\
Data File : 938280-3.D
Acq On : 24 Jun 2024 12:35 pm
Operator : SV128:jjw
Sample : WG1938280-3,32,,jjw
Misc : WG1938533,WG1938280,ical20676
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 27 14:12:01 2024
Quant Method : I:\8270sim\sv128\240624\SIM-LVI_231211_sv128.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 24 11:39:29 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270sim\sv128\240624\ccv0624.D
Sub List : DEFAULT - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.303	152	4042	4000.000	ng/ml	0.00
Standard Area 1 = 4069			Recovery = 99.34%			
8) Naphthalene-d8	2.972	136	15122	4000.000	ng/ml	# 0.00
Standard Area 1 = 14375			Recovery = 105.20%			
17) Acenaphthene-d10	3.959	164	7956	4000.000	ng/ml	0.00
Standard Area 1 = 8180			Recovery = 97.26%			
22) Phenanthrene-d10	4.805	188	17085	4000.000	ng/ml	# 0.00
Standard Area 1 = 17962			Recovery = 95.12%			
31) Chrysene-d12	6.389	240	15556	4000.000	ng/ml	0.00
Standard Area 1 = 16460			Recovery = 94.51%			
36) Perylene-d12	7.702	264	17742	4000.000	ng/ml	-0.01
Standard Area 1 = 18271			Recovery = 97.10%			
System Monitoring Compounds						
2) 2-Fluorophenol	1.695	112	3317	3258.854	ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 65.18%			
3) Phenol-d6	2.106	99	3578	3007.896	ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 60.16%			
7) Nitrobenzene-d5	2.584	82	2119	2204.271	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 88.17%			
13) 2-Fluorobiphenyl	3.575	172	5124	1597.786	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 63.91%			
21) 2,4,6-Tribromophenol	4.407	330	1581	3976.621	ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 79.53%			
30) 4-Terphenyl-d14	5.727	244	6164	1731.741	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 69.27%			
Target Compounds						Qvalue
6) Hexachloroethane	2.566	117	1518	3144.625	ng/ml	94
9) Naphthalene	2.984	128	12185	3142.148	ng/ml#	99
10) Hexachlorobutadiene	3.058	225	2451	2759.173	ng/ml	99
11) 2-Methylnaphthalene	3.367	142	7976	3219.654	ng/ml	98
14) 2-Chloronaphthalene	3.638	162	8426	3124.314	ng/ml	91
16) Acenaphthylene	3.876	152	12916	3232.969	ng/ml	98
18) Acenaphthene	3.977	153	8929	3320.001	ng/ml	89
20) Fluorene	4.270	166	9541	3515.073	ng/ml	98
24) Hexachlorobenzene	4.590	284	3702	3256.332	ng/ml	94
25) Pentachlorophenol	4.702	266	2384	4123.443	ng/ml	99

Data Path : I:\8270SIM\SV128\240624\
Data File : 938280-3.D
Acq On : 24 Jun 2024 12:35 pm
Operator : SV128:jjw
Sample : WG1938280-3,32,,jjw
Misc : WG1938533,WG1938280,ical20676
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 27 14:12:01 2024
Quant Method : I:\8270sim\sv128\240624\SIM-LVI_231211_sv128.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 24 11:39:29 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270sim\sv128\240624\ccv0624.D
Sub List : DEFAULT - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
26) Phenanthrene	4.820	178	15562	3368.416	ng/ml	99
27) Anthracene	4.847	178	15965	3576.318	ng/ml	100
28) Fluoranthene	5.506	202	18490	3642.811	ng/ml	96
29) Pyrene	5.637	202	19818	3773.742	ng/ml	98
32) Benzo[a]anthracene	6.381	228	19529	3495.270	ng/ml	99
34) Chrysene	6.406	228	18172	3388.433	ng/ml	98
37) Benzo[b]fluoranthene	7.300	252	19839	3610.798	ng/ml	100
38) Benzo[k]fluoranthene	7.325	252	18744	3665.939	ng/ml	100
39) Benzo[a]pyrene	7.636	252	17618	3641.395	ng/ml	100
40) Indeno[1,2,3-cd]pyrene	9.026	276	18106	3742.541	ng/ml	97
41) Dibenzo[a,h]anthracene	9.070	278	17922M6	3814.210	ng/ml	
42) Benzo[g,h,i]perylene	9.392	276	17317M1	3443.714	ng/ml	

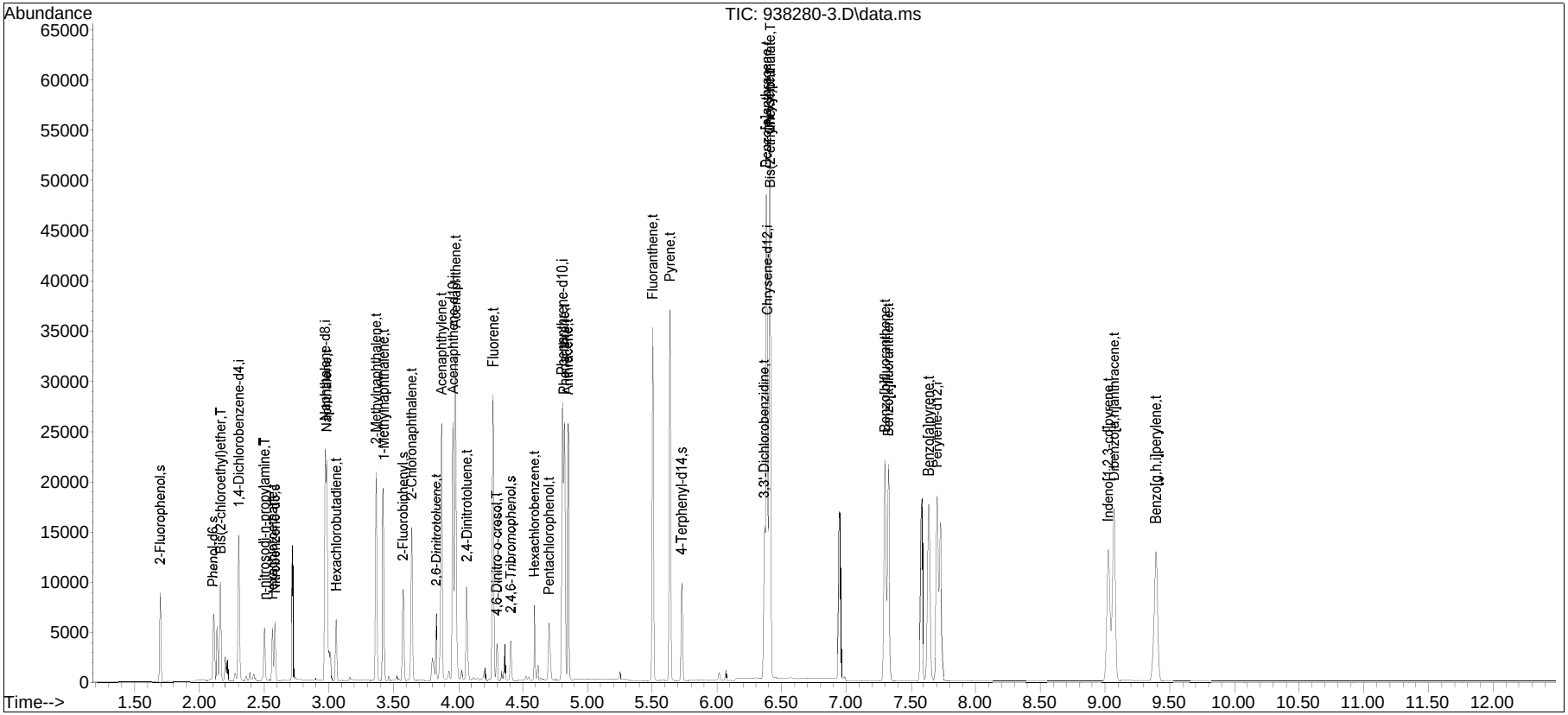
(#) = qualifier out of range (m) = manual integration (+) = signals summed

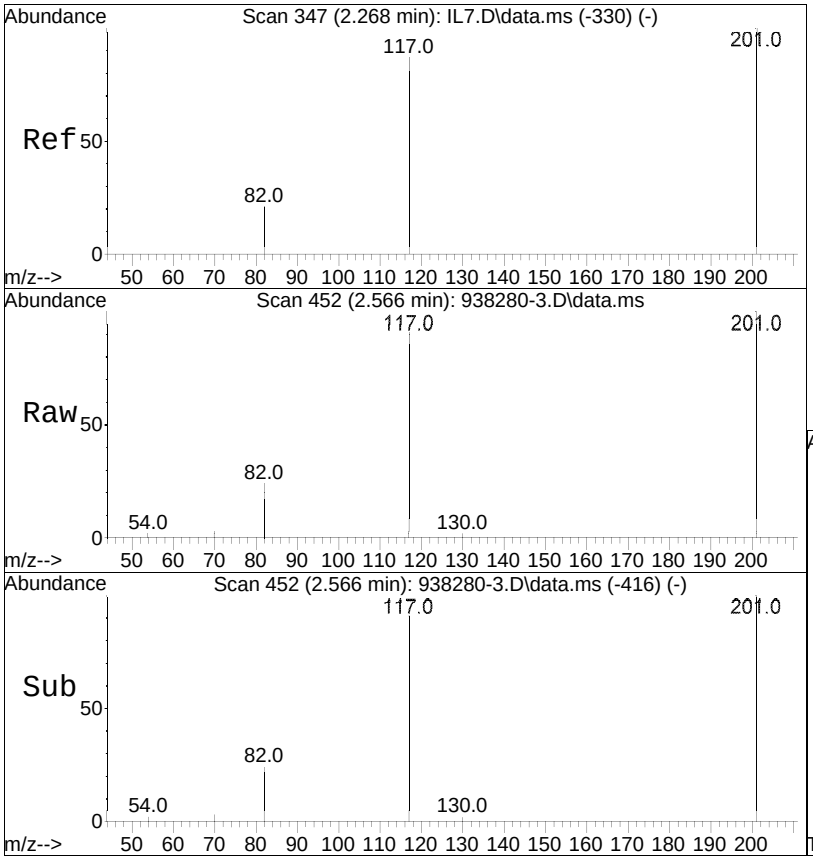
Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV128\240624\
Data File : 938280-3.D
Acq On : 24 Jun 2024 12:35 pm
Operator : SV128:jjw
Sample : WG1938280-3,32,,jjw
Misc : WG1938533,WG1938280,ical20676
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 27 14:12:01 2024
Quant Method : I:\8270sim\sv128\240624\SIM-LVI_231211_sv128.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 24 11:39:29 2024
Response via : Initial Calibration

Sub List : DEFAULT - All compounds listedv0624.D•

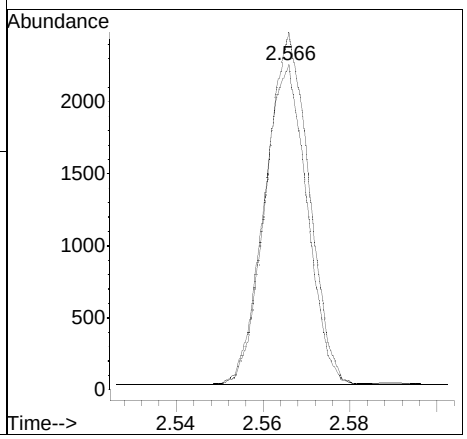


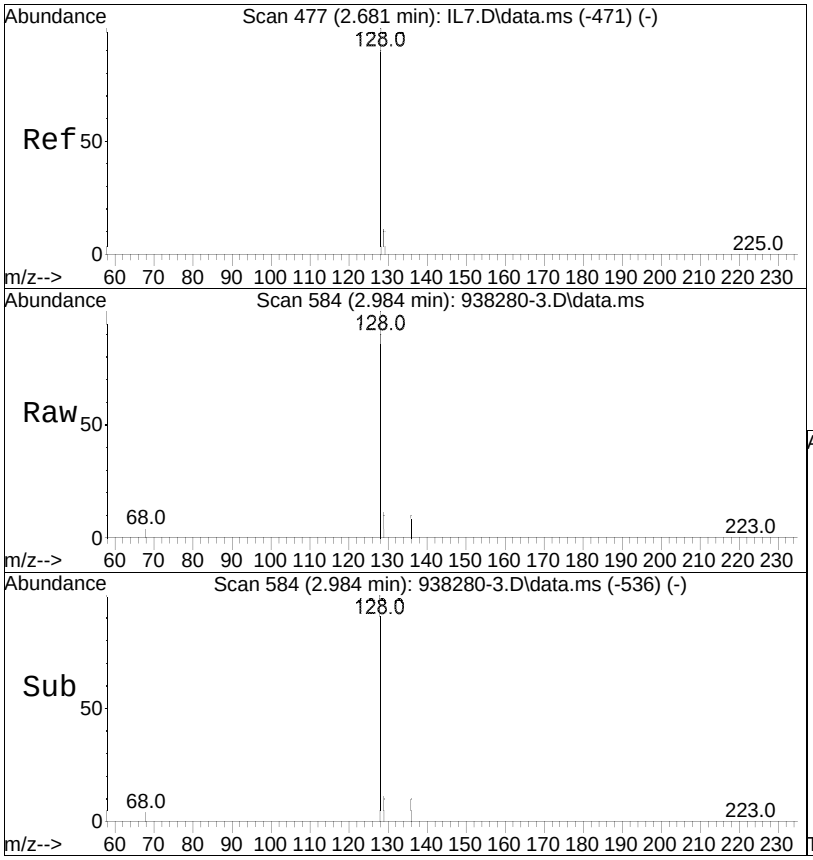


#6
Hexachloroethane
Concen: 3144.63 ng/ml
RT: 2.566 min Scan# 452
Delta R.T. -0.003 min
Lab File: 938280-3.D
Acq: 24 Jun 2024 12:35 pm

Tgt Ion:117 Resp: 1518

Ion	Ratio	Lower	Upper
117	100		
201	108.6	91.8	137.6

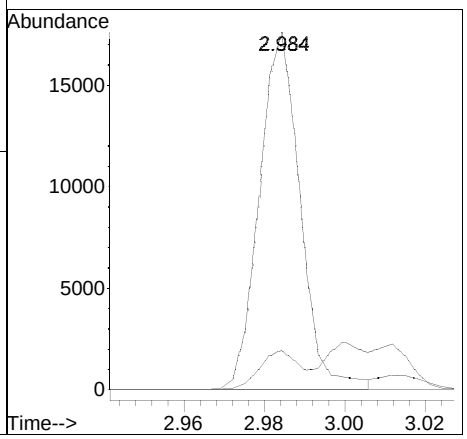


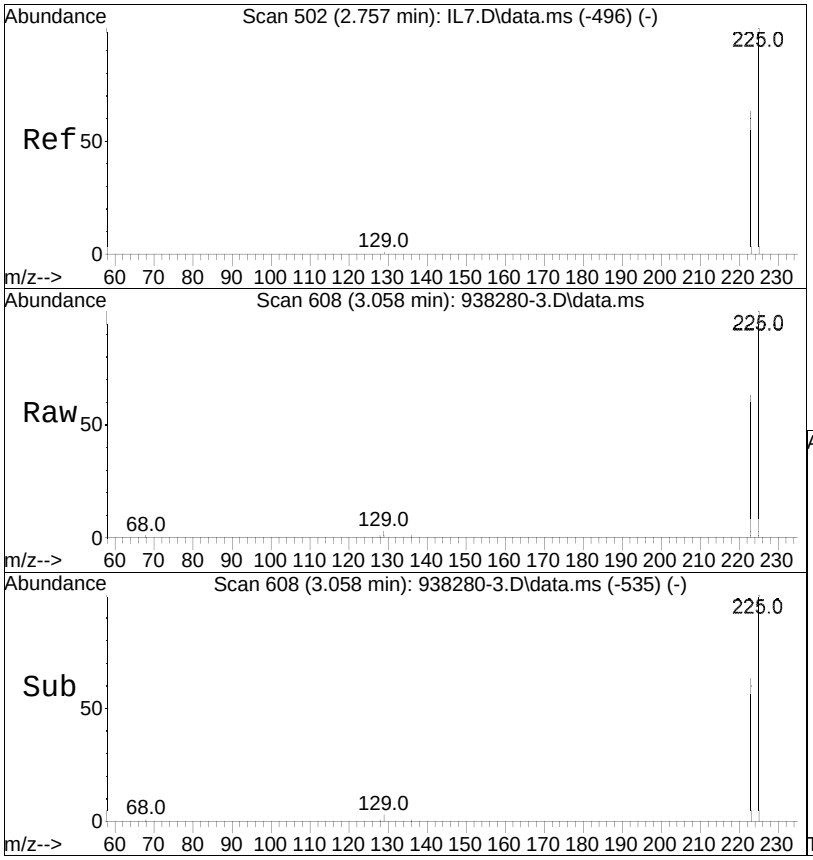


#9
Naphthalene
Concen: 3142.15 ng/ml
RT: 2.984 min Scan# 584
Delta R.T. -0.002 min
Lab File: 938280-3.D
Acq: 24 Jun 2024 12:35 pm

Tgt Ion:128 Resp: 12185

Ion	Ratio	Lower	Upper
128	100		
129	10.6	8.8	13.2
127	0.0	0.0	0.0

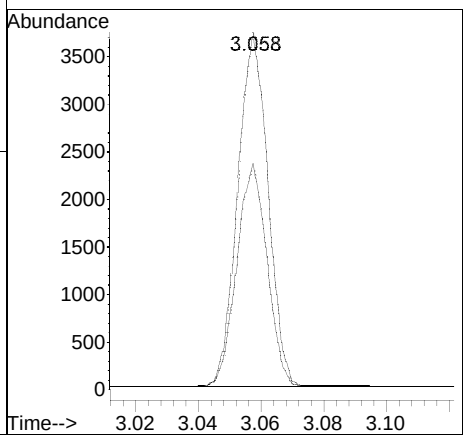


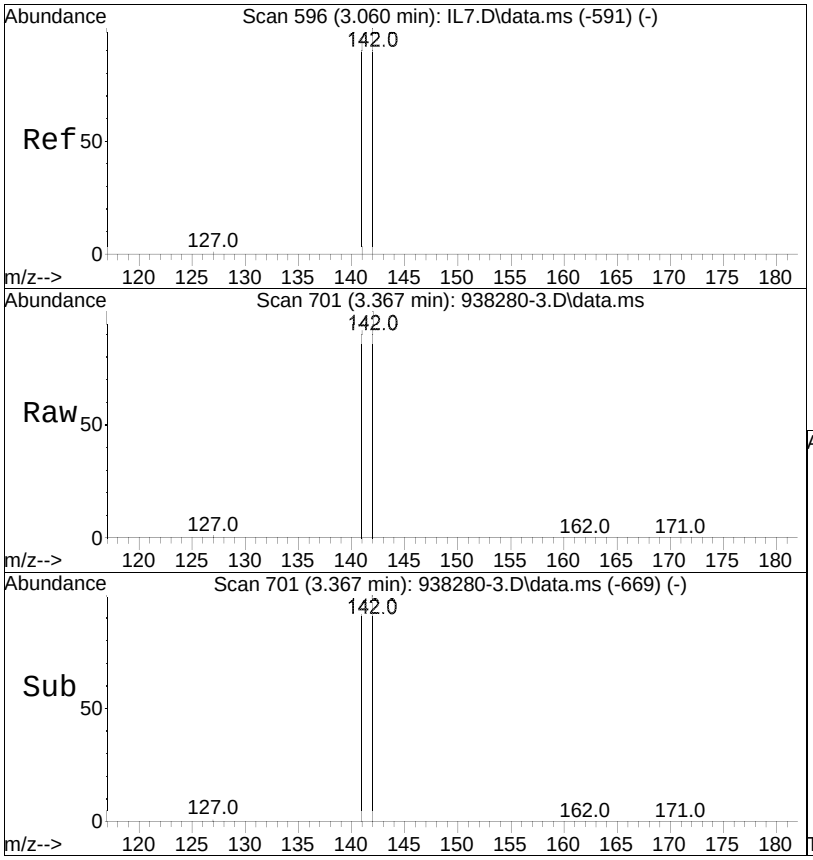


#10
Hexachlorobutadiene
Concen: 2759.17 ng/ml
RT: 3.058 min Scan# 608
Delta R.T. -0.006 min
Lab File: 938280-3.D
Acq: 24 Jun 2024 12:35 pm

Tgt Ion:225 Resp: 2451

Ion	Ratio	Lower	Upper
225	100		
223	63.1	49.9	74.9

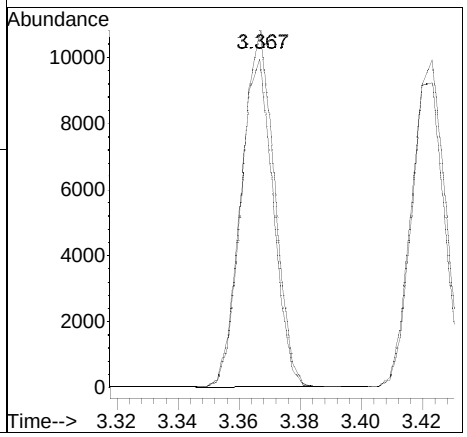


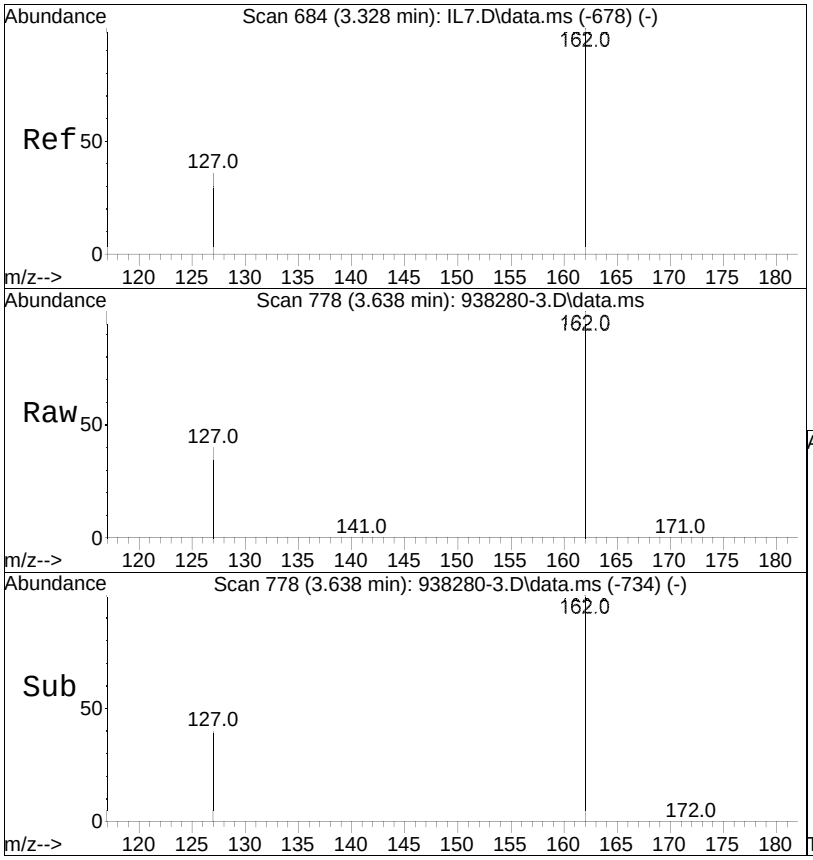


#11
2-Methylnaphthalene
Concen: 3219.65 ng/ml
RT: 3.367 min Scan# 701
Delta R.T. -0.003 min
Lab File: 938280-3.D
Acq: 24 Jun 2024 12:35 pm

Tgt Ion:142 Resp: 7976

Ion	Ratio	Lower	Upper
142	100		
141	92.9	75.9	113.9

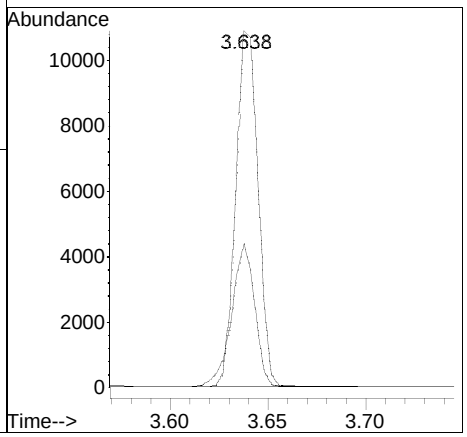


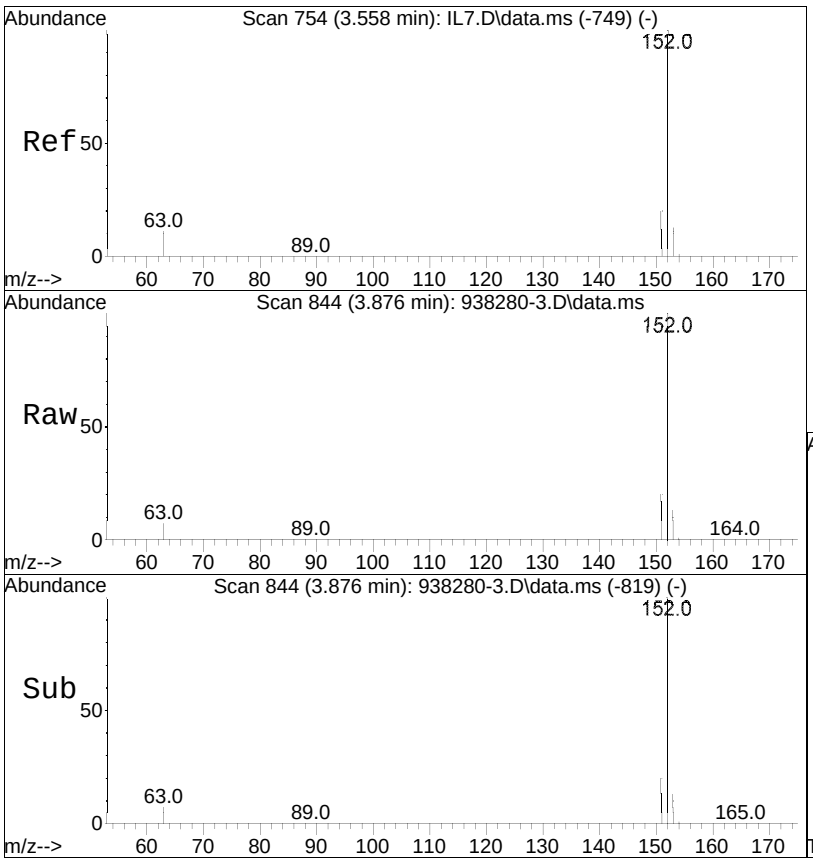


#14
2-Chloronaphthalene
Concen: 3124.31 ng/ml
RT: 3.638 min Scan# 778
Delta R.T. -0.006 min
Lab File: 938280-3.D
Acq: 24 Jun 2024 12:35 pm

Tgt Ion:162 Resp: 8426

Ion	Ratio	Lower	Upper
162	100		
127	41.7	29.3	43.9

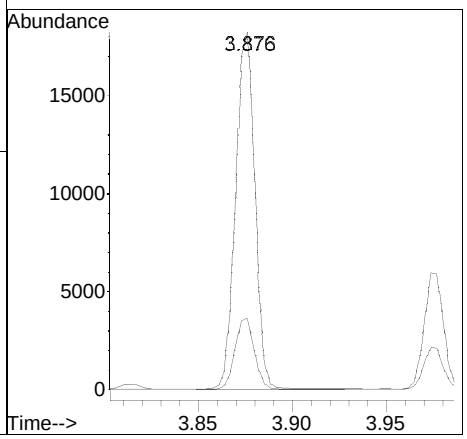


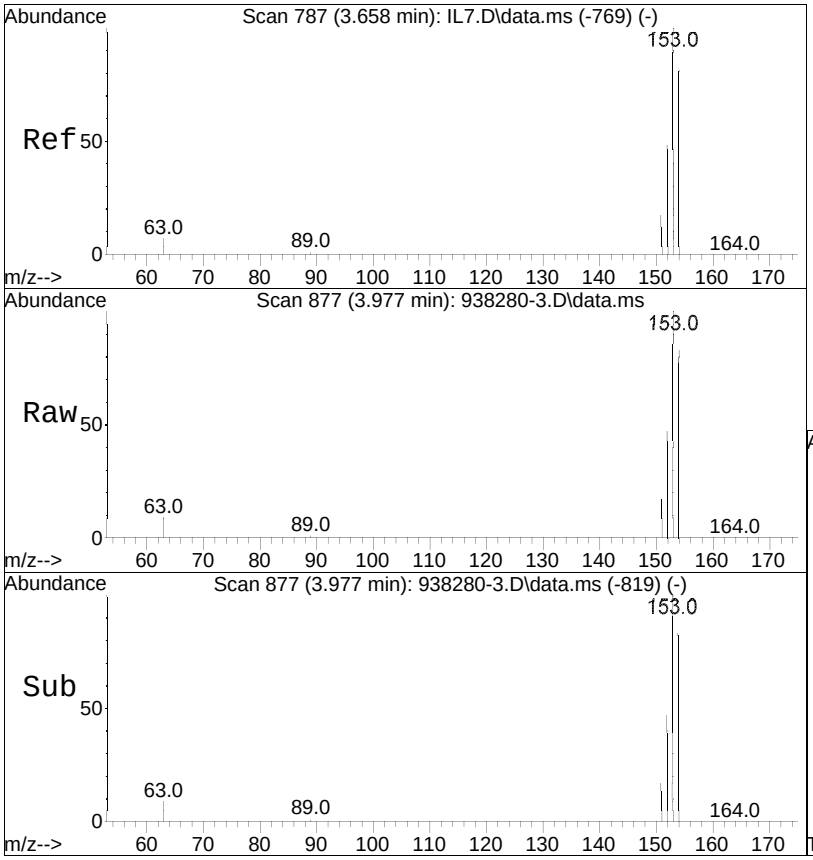


#16
Acenaphthylene
Concen: 3232.97 ng/ml
RT: 3.876 min Scan# 844
Delta R.T. -0.003 min
Lab File: 938280-3.D
Acq: 24 Jun 2024 12:35 pm

Tgt Ion:152 Resp: 12916

Ion	Ratio	Lower	Upper
152	100		
151	19.8	16.4	24.6

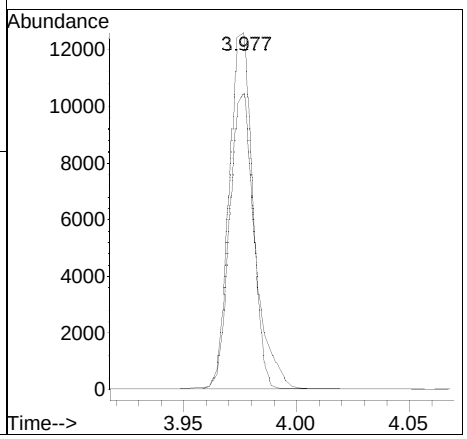


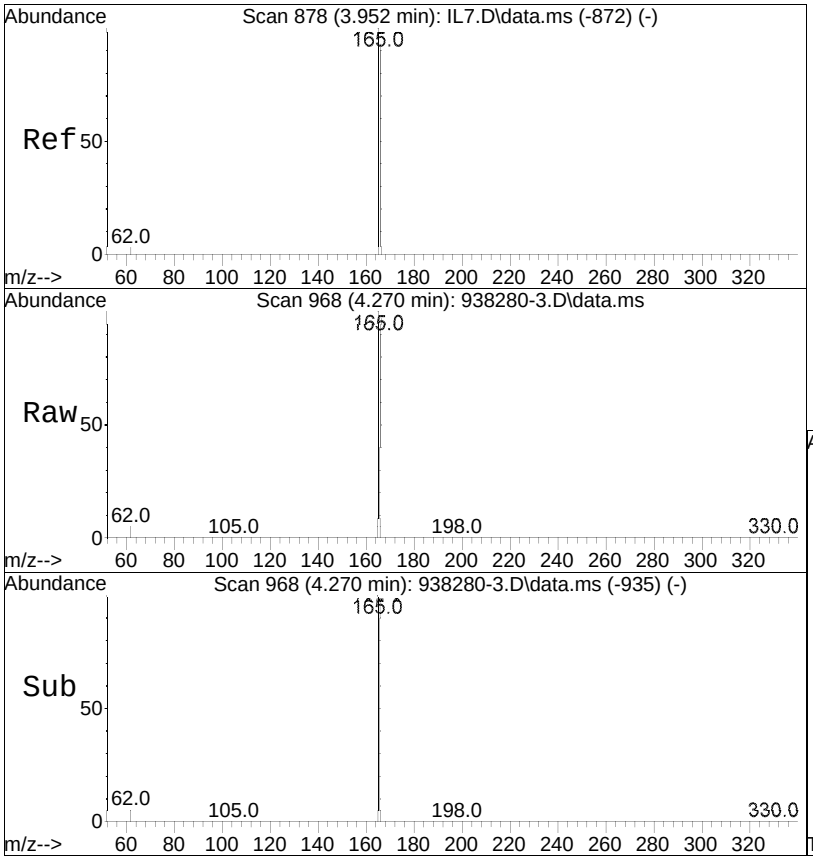


#18
Acenaphthene
Concen: 3320.00 ng/ml
RT: 3.977 min Scan# 877
Delta R.T. -0.003 min
Lab File: 938280-3.D
Acq: 24 Jun 2024 12:35 pm

Tgt Ion:153 Resp: 8929

Ion	Ratio	Lower	Upper
153	100		
154	91.8	65.8	98.6

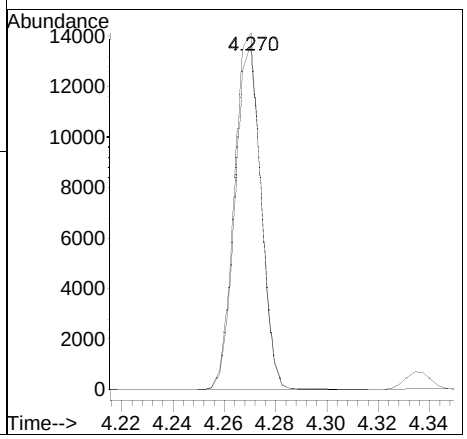


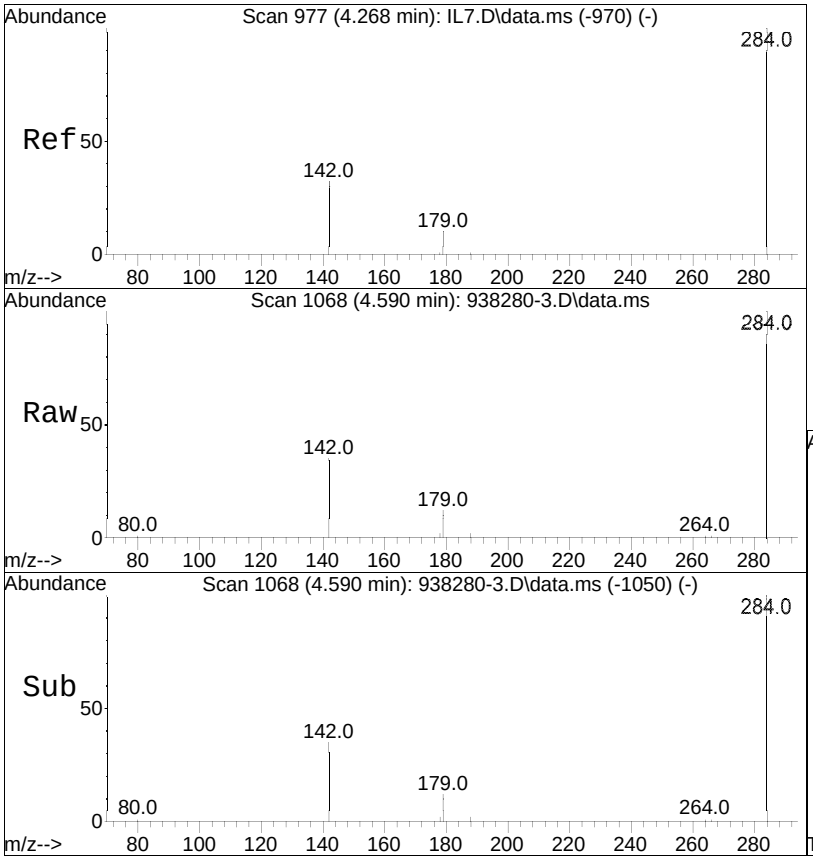


#20
Fluorene
Concen: 3515.07 ng/ml
RT: 4.270 min Scan# 968
Delta R.T. -0.003 min
Lab File: 938280-3.D
Acq: 24 Jun 2024 12:35 pm

Tgt Ion:166 Resp: 9541

Ion	Ratio	Lower	Upper
166	100		
165	104.9	85.7	128.5

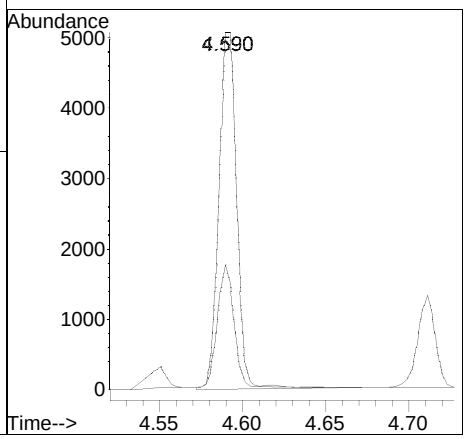


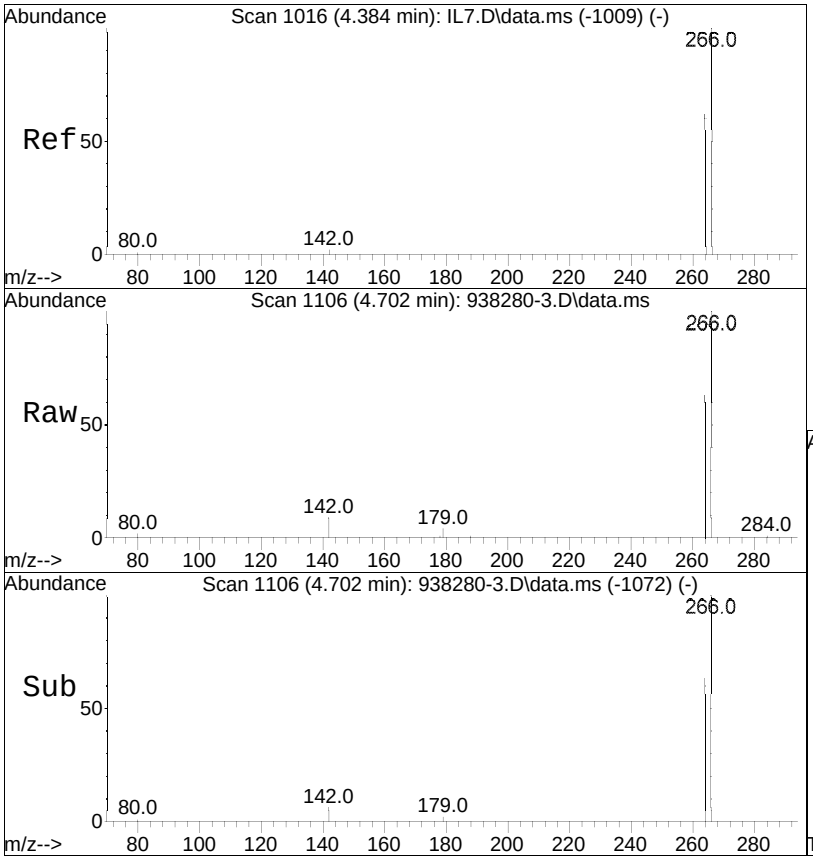


#24
Hexachlorobenzene
Concen: 3256.33 ng/ml
RT: 4.590 min Scan# 1068
Delta R.T. -0.006 min
Lab File: 938280-3.D
Acq: 24 Jun 2024 12:35 pm

Tgt Ion:284 Resp: 3702

Ion	Ratio	Lower	Upper
284	100		
142	32.9	23.9	35.9

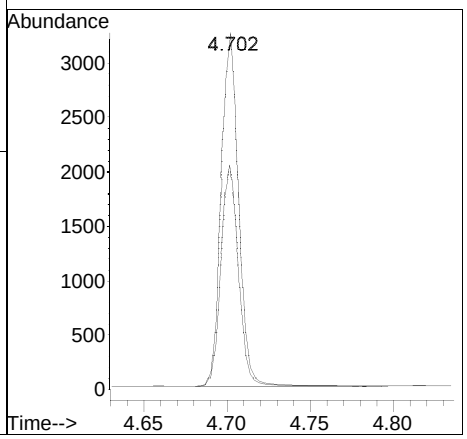


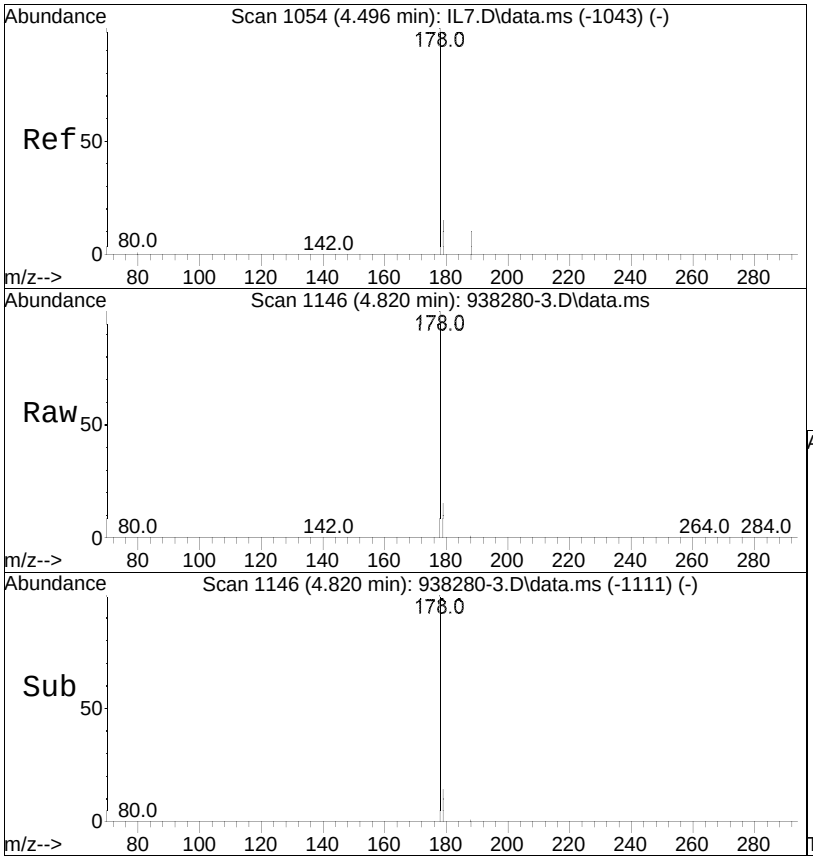


#25
Pentachlorophenol
Concen: 4123.44 ng/ml
RT: 4.702 min Scan# 1106
Delta R.T. -0.003 min
Lab File: 938280-3.D
Acq: 24 Jun 2024 12:35 pm

Tgt Ion:266 Resp: 2384

Ion	Ratio	Lower	Upper
266	100		
264	61.4	49.7	74.5

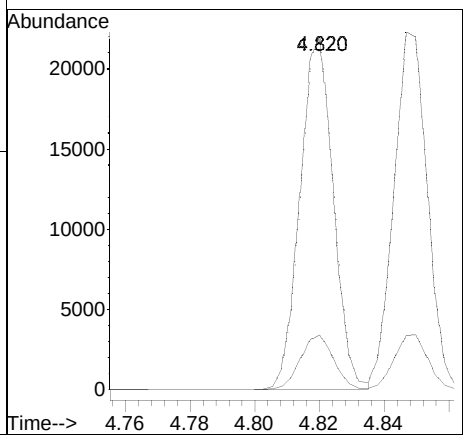


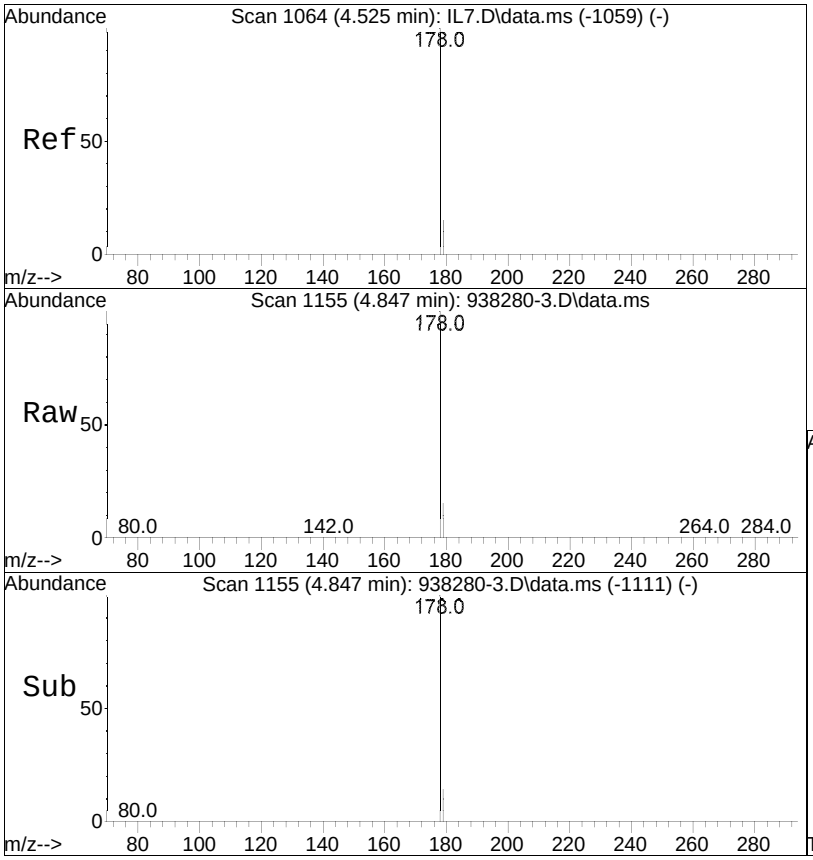


#26
Phenanthrene
Concen: 3368.42 ng/ml
RT: 4.820 min Scan# 1146
Delta R.T. -0.003 min
Lab File: 938280-3.D
Acq: 24 Jun 2024 12:35 pm

Tgt Ion:178 Resp: 15562

Ion	Ratio	Lower	Upper
178	100		
179	15.7	12.2	18.4

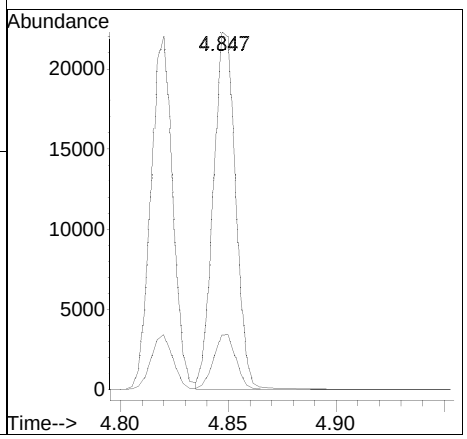


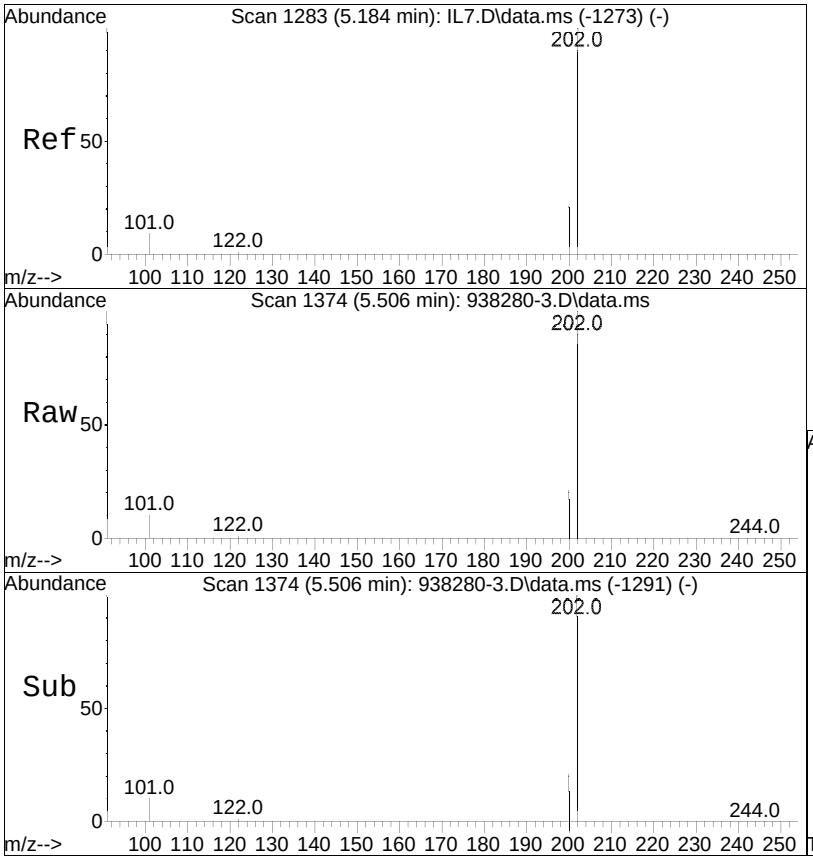


#27
Anthracene
Concen: 3576.32 ng/ml
RT: 4.847 min Scan# 1155
Delta R.T. -0.006 min
Lab File: 938280-3.D
Acq: 24 Jun 2024 12:35 pm

Tgt Ion:178 Resp: 15965

Ion	Ratio	Lower	Upper
178	100		
179	15.3	12.2	18.2

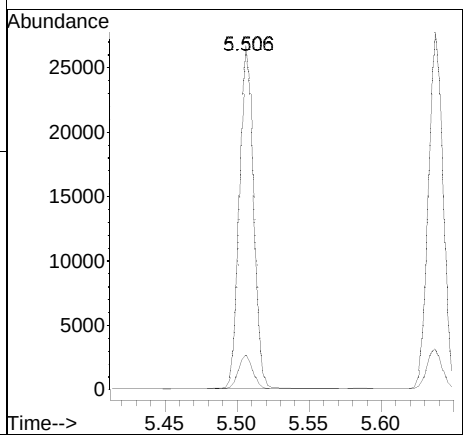


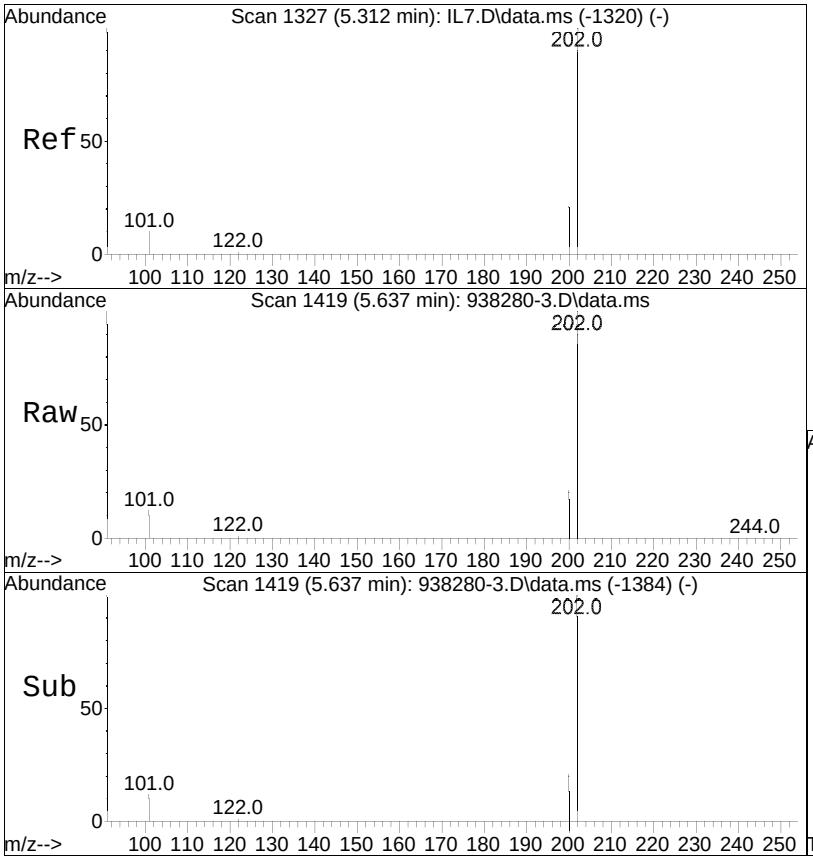


#28
Fluoranthene
Concen: 3642.81 ng/ml
RT: 5.506 min Scan# 1374
Delta R.T. -0.003 min
Lab File: 938280-3.D
Acq: 24 Jun 2024 12:35 pm

Tgt Ion:202 Resp: 18490

Ion	Ratio	Lower	Upper
202	100		
101	10.5	7.2	10.8

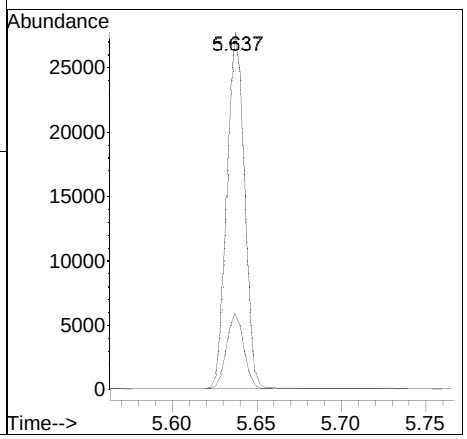


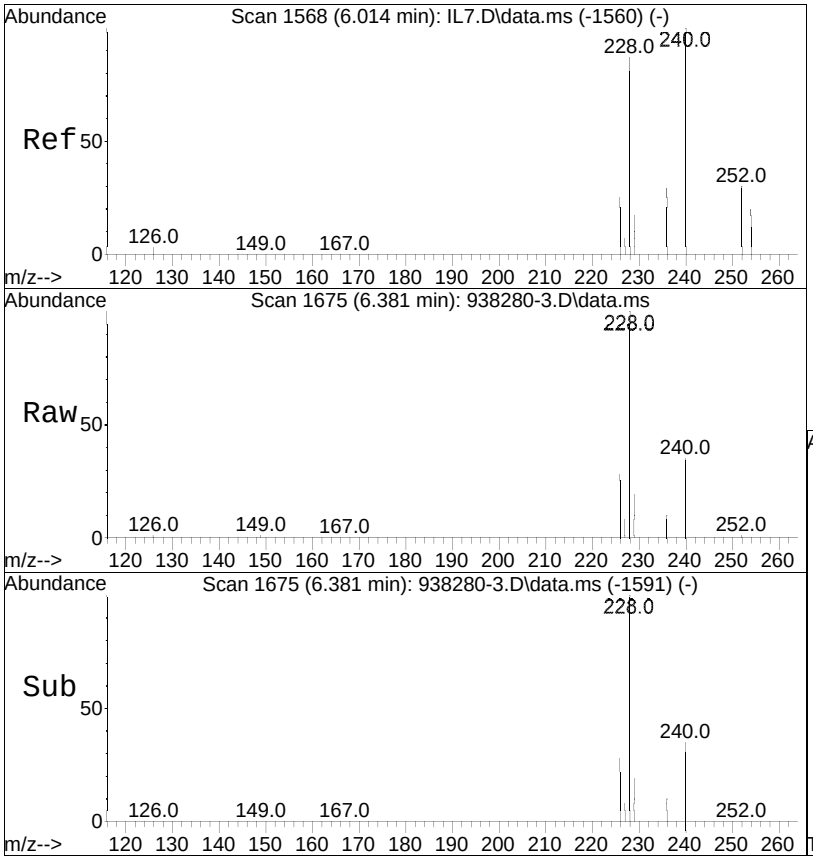


#29
Pyrene
Concen: 3773.74 ng/ml
RT: 5.637 min Scan# 1419
Delta R.T. -0.003 min
Lab File: 938280-3.D
Acq: 24 Jun 2024 12:35 pm

Tgt Ion:202 Resp: 19818

Ion	Ratio	Lower	Upper
202	100		
200	21.2	17.7	26.5

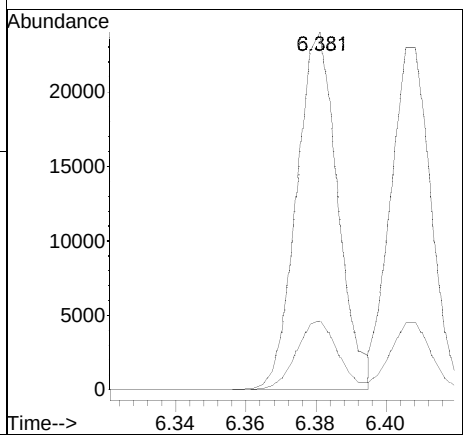


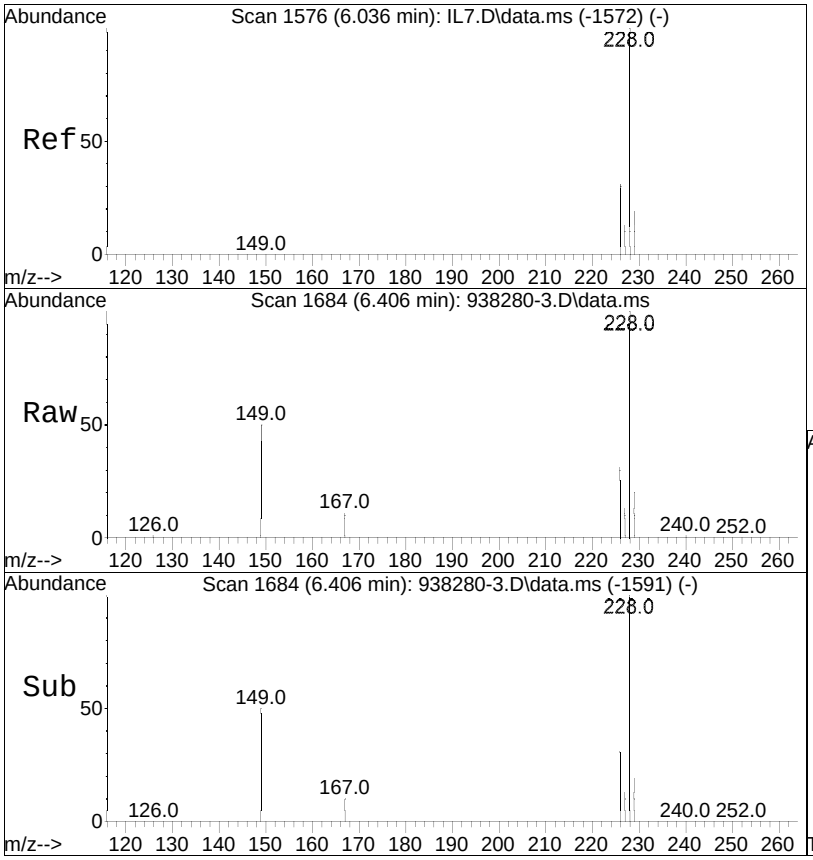


#32
Benzo[a]anthracene
Concen: 3495.27 ng/ml
RT: 6.381 min Scan# 1675
Delta R.T. -0.005 min
Lab File: 938280-3.D
Acq: 24 Jun 2024 12:35 pm

Tgt Ion:228 Resp: 19529

Ion	Ratio	Lower	Upper
228	100		
229	19.3	15.7	23.5

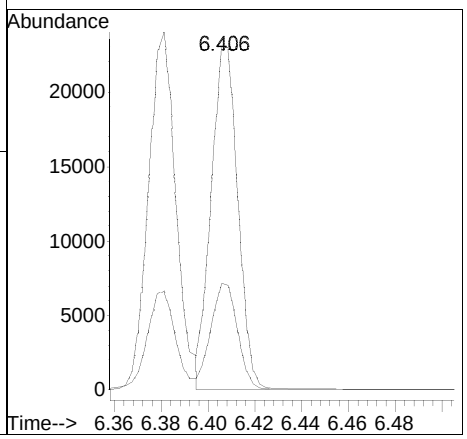


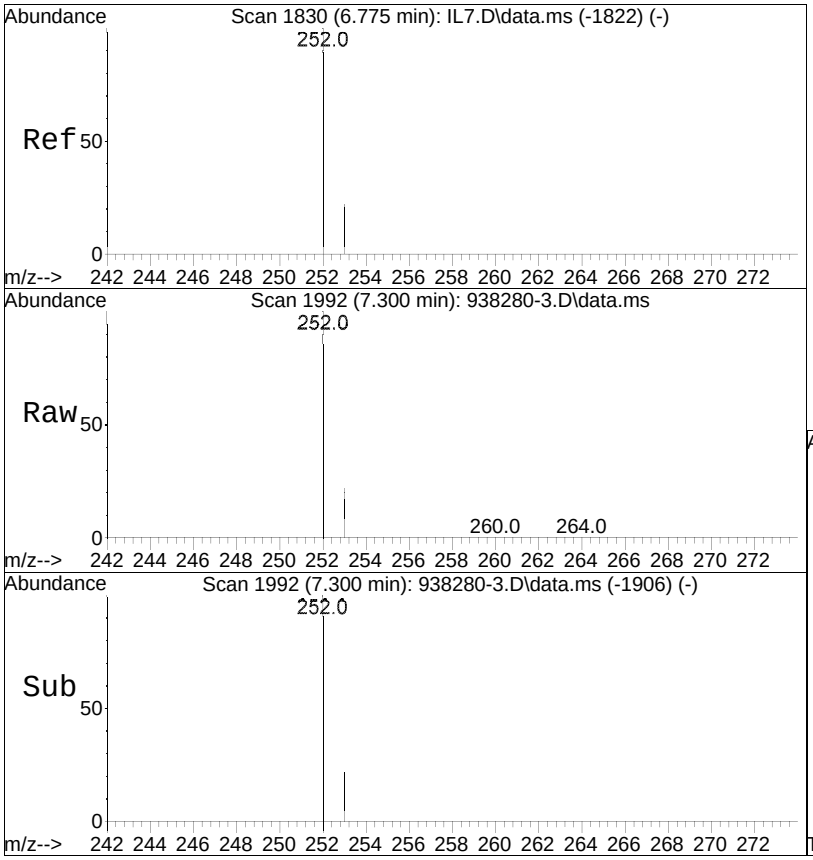


#34
Chrysene
Concen: 3388.43 ng/ml
RT: 6.406 min Scan# 1684
Delta R.T. -0.005 min
Lab File: 938280-3.D
Acq: 24 Jun 2024 12:35 pm

Tgt Ion:228 Resp: 18172

Ion	Ratio	Lower	Upper
228	100		
226	31.5	24.6	36.8

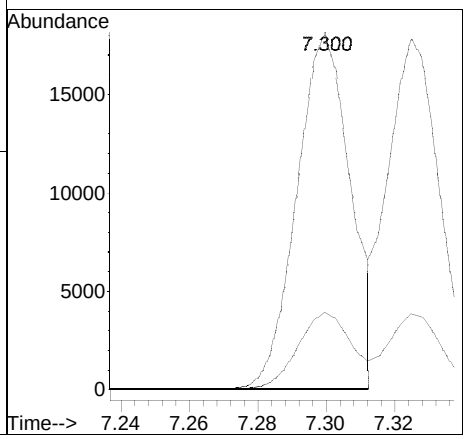


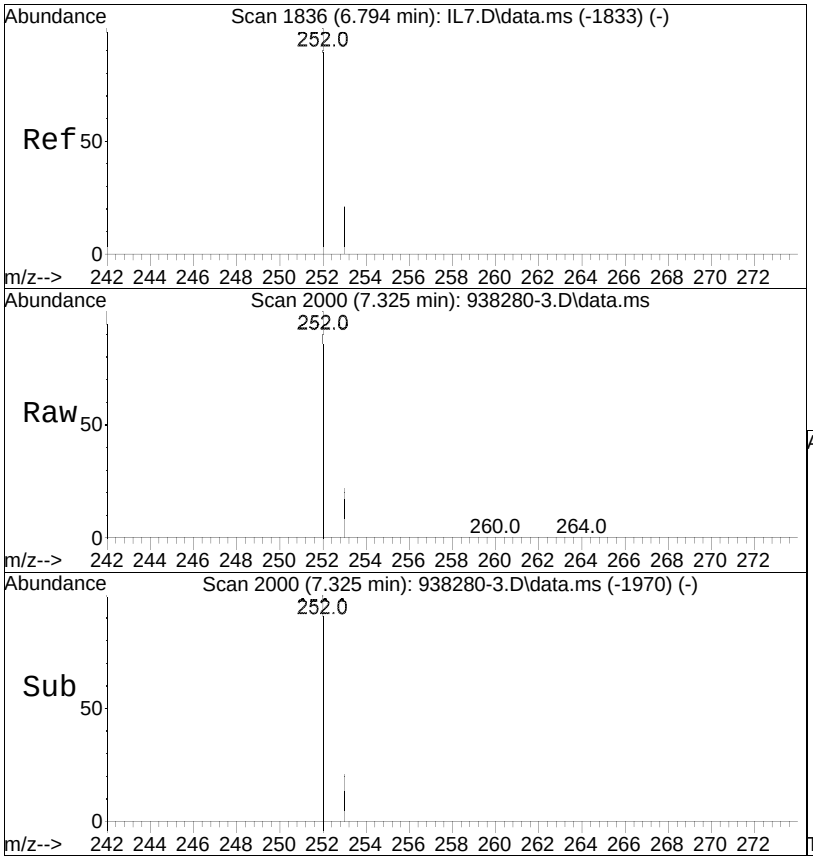


#37
Benzo[b]fluoranthene
Concen: 3610.80 ng/ml
RT: 7.300 min Scan# 1992
Delta R.T. -0.006 min
Lab File: 938280-3.D
Acq: 24 Jun 2024 12:35 pm

Tgt Ion:252 Resp: 19839

Ion	Ratio	Lower	Upper
252	100		
253	21.5	17.1	25.7

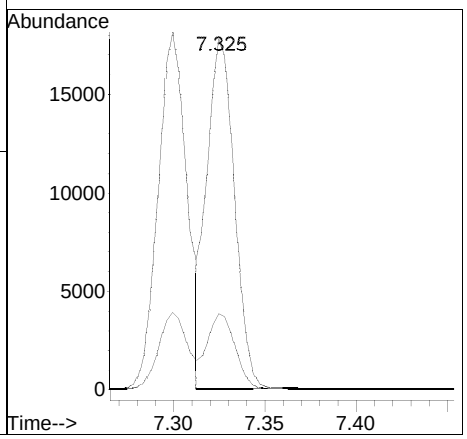


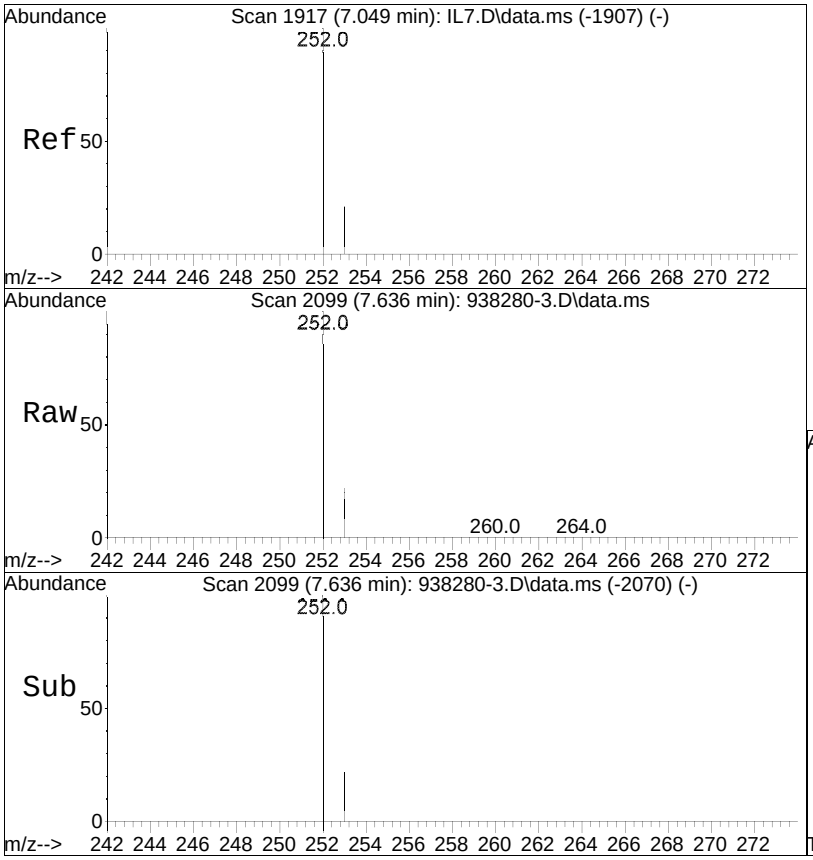


#38
Benzo[k]fluoranthene
Concen: 3665.94 ng/ml
RT: 7.325 min Scan# 2000
Delta R.T. -0.006 min
Lab File: 938280-3.D
Acq: 24 Jun 2024 12:35 pm

Tgt Ion:252 Resp: 18744

Ion	Ratio	Lower	Upper
252	100		
253	21.8	17.3	25.9

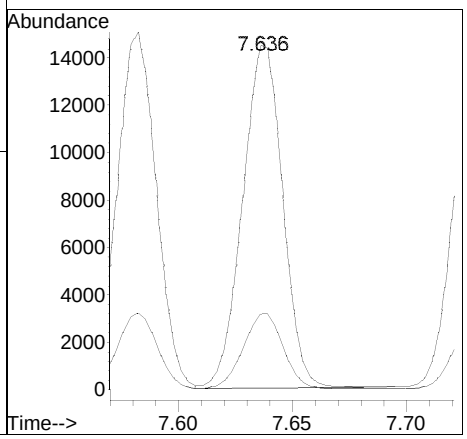


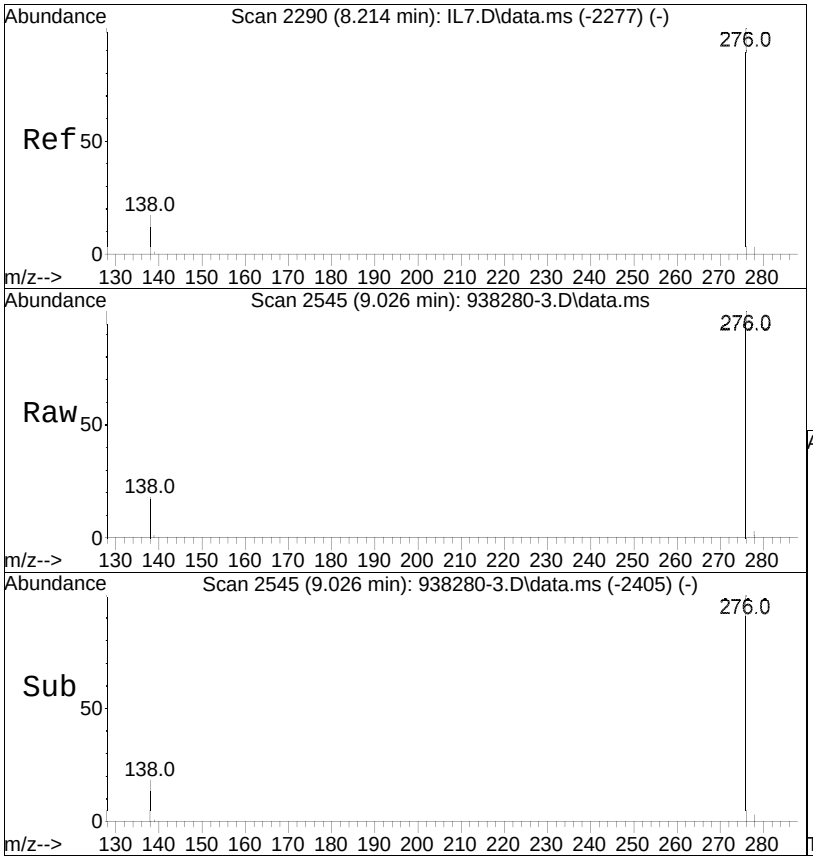


#39
Benzo[a]pyrene
Concen: 3641.40 ng/ml
RT: 7.636 min Scan# 2099
Delta R.T. -0.009 min
Lab File: 938280-3.D
Acq: 24 Jun 2024 12:35 pm

Tgt Ion:252 Resp: 17618

Ion	Ratio	Lower	Upper
252	100		
253	21.6	17.3	25.9

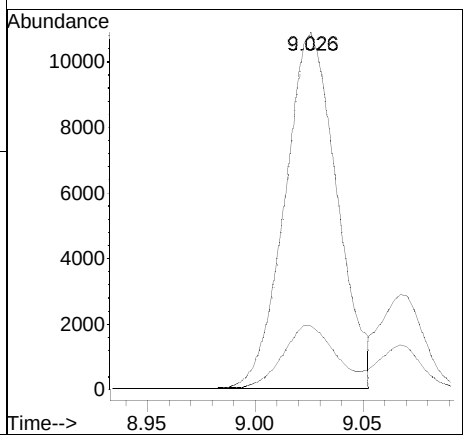


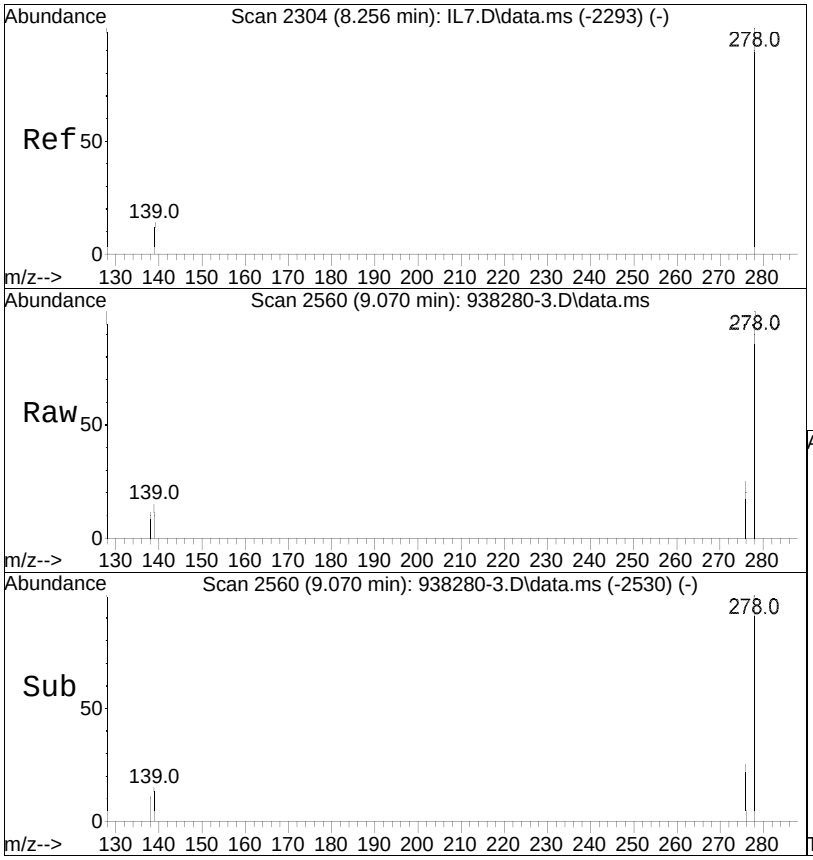


#40
Indeno[1,2,3-cd]pyrene
Concen: 3742.54 ng/ml
RT: 9.026 min Scan# 2545
Delta R.T. -0.015 min
Lab File: 938280-3.D
Acq: 24 Jun 2024 12:35 pm

Tgt Ion:276 Resp: 18106

Ion	Ratio	Lower	Upper
276	100		
138	18.2	13.4	20.2

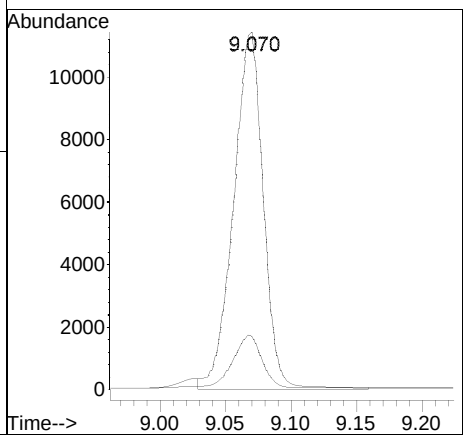


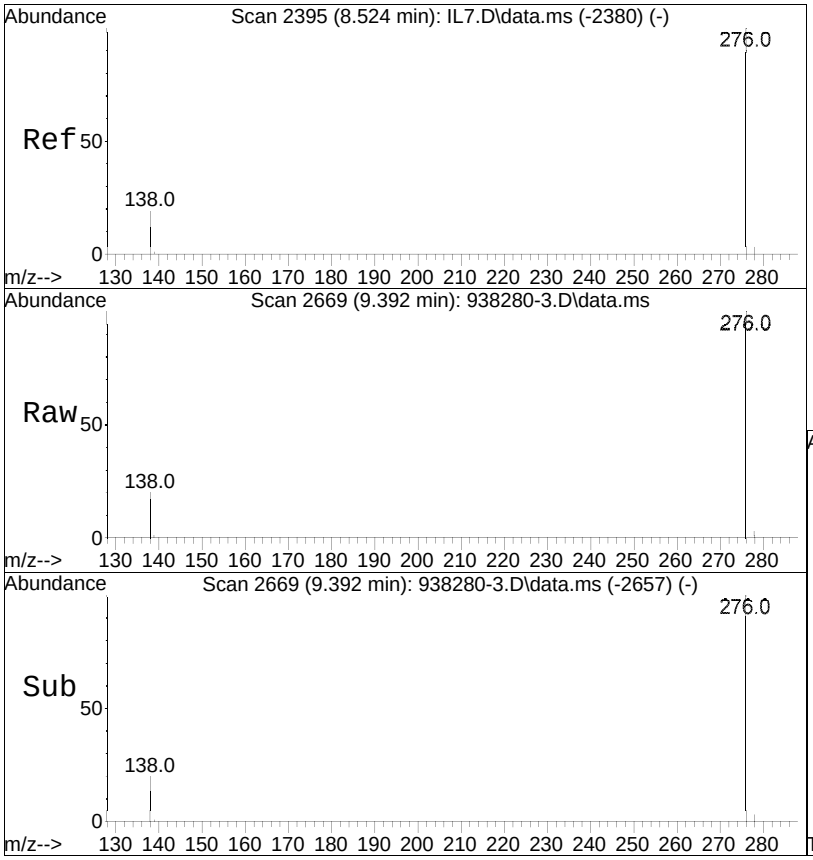


#41
Dibenzo[a,h]anthracene
Concen: 3814.21 ng/ml M6
RT: 9.070 min Scan# 2560
Delta R.T. -0.012 min
Lab File: 938280-3.D
Acq: 24 Jun 2024 12:35 pm

Tgt Ion:278 Resp: 17922

Ion	Ratio	Lower	Upper
278	100		
139	15.0	10.9	16.3

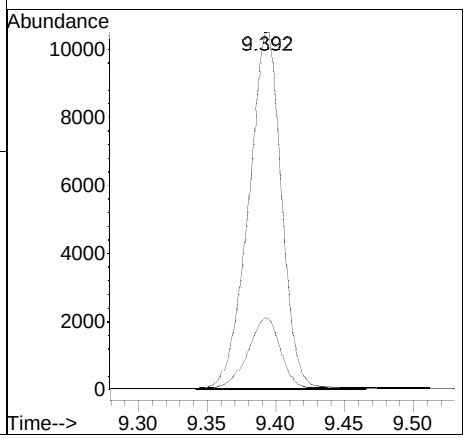




#42
Benzo[g,h,i]perylene
Concen: 3443.71 ng/ml M1
RT: 9.392 min Scan# 2669
Delta R.T. -0.015 min
Lab File: 938280-3.D
Acq: 24 Jun 2024 12:35 pm

Tgt Ion:276 Resp: 17317

Ion	Ratio	Lower	Upper
276	100		
138	19.6	14.8	22.2

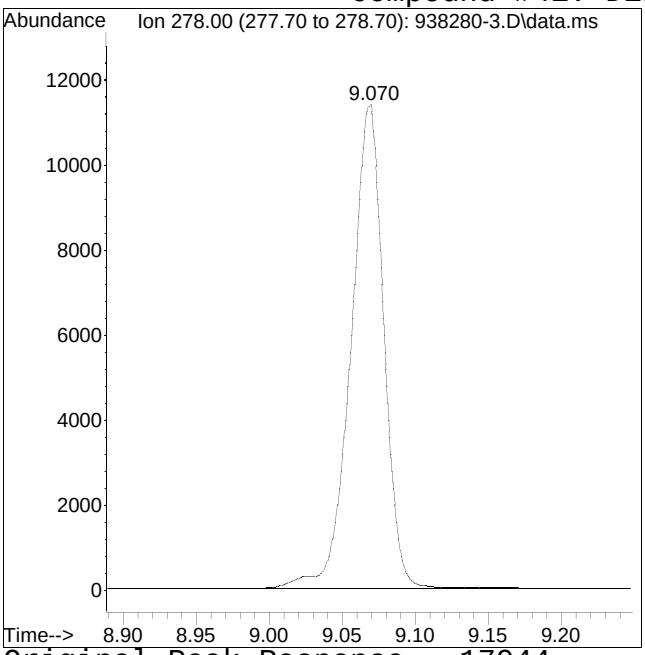


Manual Integration Report

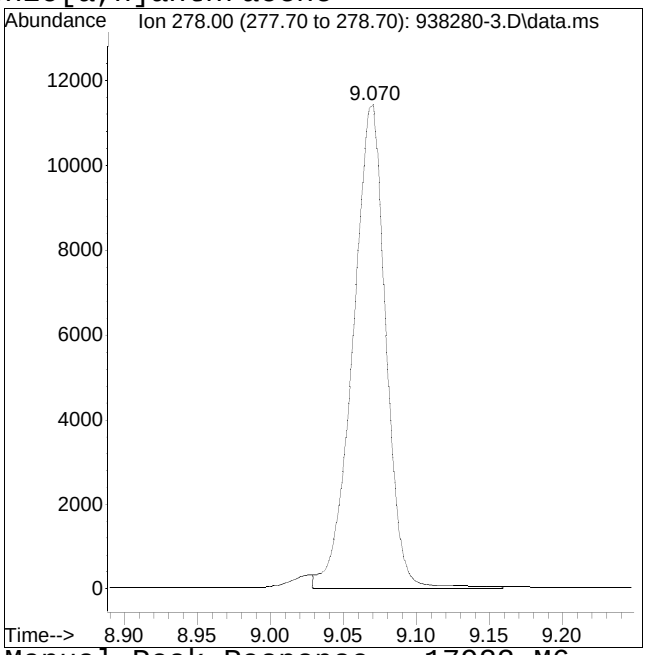
Data Path : I:\8270SIM\SV128\240624\
Data File : 938280-3.D
Date Inj'd : 6/24/2024 12:35 pm
Sample : WG1938280-3,32,,jjw

QMethod : SIM-LVI_231211_sv128.M
Operator : SV128:jjw
Instrument : SV128
Quant Date : 6/24/2024 12:52 pm

Compound #41: Dibenzo[a,h]anthracene



Original Peak Response = 17944



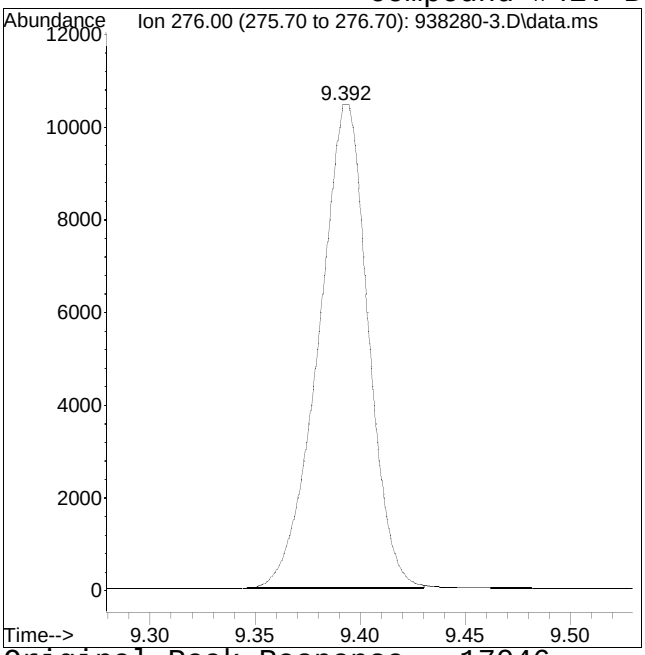
Manual Peak Response = 17922 M6

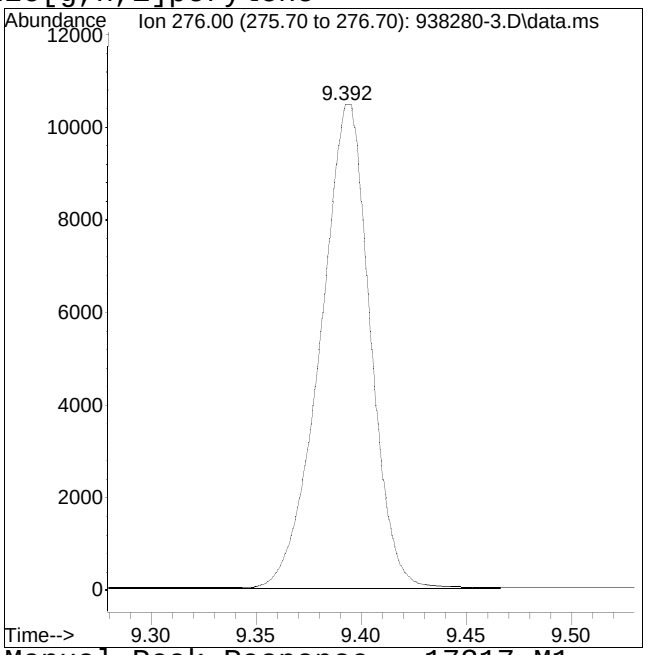
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

Data Path : I:\8270SIM\SV128\240624\ QMethod : SIM-LVI_231211_sv128.M
Data File : 938280-3.D Operator : SV128:jjw
Date Inj'd : 6/24/2024 12:35 pm Instrument : SV128
Sample : WG1938280-3,32,,jjw Quant Date : 6/24/2024 12:52 pm

Compound #42: Benzo[g,h,i]perylene





Original Peak Response = 17046 Manual Peak Response = 17317 M1
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV128\240625\
Data File : 938725-3.D
Acq On : 25 Jun 2024 11:19 am
Operator : SV128:rp
Sample : WG1938725-3,32,,jjw
Misc : WG1939038,WG1938725,ical20676
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 25 12:33:17 2024
Quant Method : I:\8270sim\sv128\240625\SIM-LVI_231211_sv128.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Jun 25 10:22:00 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270sim\sv128\240625\ccv0625.D
Sub List : DEFAULT - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	2.301	152	3348	4000.000	ng/ml		0.00
Standard Area 1 = 3868			Recovery = 86.56%				
8) Naphthalene-d8	2.974	136	13111	4000.000	ng/ml	#	0.00
Standard Area 1 = 14097			Recovery = 93.01%				
17) Acenaphthene-d10	3.959	164	7118	4000.000	ng/ml		0.00
Standard Area 1 = 8577			Recovery = 82.99%				
22) Phenanthrene-d10	4.809	188	16144	4000.000	ng/ml		0.00
Standard Area 1 = 20055			Recovery = 80.50%				
31) Chrysene-d12	6.393	240	15304	4000.000	ng/ml		0.00
Standard Area 1 = 19835			Recovery = 77.16%				
36) Perylene-d12	7.700	264	17436	4000.000	ng/ml		0.00
Standard Area 1 = 22257			Recovery = 78.34%				
System Monitoring Compounds							
2) 2-Fluorophenol	1.690	112	2798	3318.776	ng/ml		0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 66.38%				
3) Phenol-d6	2.104	99	2914	2957.487	ng/ml		0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 59.15%				
7) Nitrobenzene-d5	2.583	82	1968	2471.553	ng/ml		0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 98.86%				
13) 2-Fluorobiphenyl	3.576	172	4811	1730.288	ng/ml		0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 69.21%				
21) 2,4,6-Tribromophenol	4.411	330	1447	4068.063	ng/ml		0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 81.36%				
30) 4-Terphenyl-d14	5.731	244	6361	1891.253	ng/ml		0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 75.65%				
Target Compounds							Qvalue
6) Hexachloroethane	2.564	117	1436	3591.389	ng/ml		95
9) Naphthalene	2.986	128	11657	3467.060	ng/ml	#	99
10) Hexachlorobutadiene	3.059	225	2262	2936.984	ng/ml		95
11) 2-Methylnaphthalene	3.368	142	7615	3545.417	ng/ml		99
14) 2-Chloronaphthalene	3.643	162	7956	3402.526	ng/ml		90
16) Acenaphthylene	3.880	152	12456	3596.048	ng/ml		99
18) Acenaphthene	3.978	153	8623	3583.691	ng/ml		89
20) Fluorene	4.274	166	9522	3921.077	ng/ml		96
24) Hexachlorobenzene	4.596	284	3398	3163.147	ng/ml		92
25) Pentachlorophenol	4.706	266	2243	4109.011	ng/ml		93

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV128\240625\
Data File : 938725-3.D
Acq On : 25 Jun 2024 11:19 am
Operator : SV128:rp
Sample : WG1938725-3,32,,jjw
Misc : WG1939038,WG1938725,ical20676
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 25 12:33:17 2024
Quant Method : I:\8270sim\sv128\240625\SIM-LVI_231211_sv128.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Jun 25 10:22:00 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270sim\sv128\240625\ccv0625.D
Sub List : DEFAULT - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
26) Phenanthrene	4.824	178	15733	3603.925	ng/ml	99
27) Anthracene	4.854	178	15855	3758.696	ng/ml	100
28) Fluoranthene	5.510	202	19341	4032.576	ng/ml	98
29) Pyrene	5.641	202	20508	4132.754	ng/ml	98
32) Benzo[a]anthracene	6.385	228	20235	3681.612	ng/ml	100
34) Chrysene	6.409	228	19602	3715.262	ng/ml	100
37) Benzo[b]fluoranthene	7.298	252	20577	3810.844	ng/ml	100
38) Benzo[k]fluoranthene	7.323	252	20387	4057.252	ng/ml	100
39) Benzo[a]pyrene	7.634	252	18512	3893.322	ng/ml	100
40) Indeno[1,2,3-cd]pyrene	9.018	276	19400	4080.389	ng/ml	99
41) Dibenzo[a,h]anthracene	9.059	278	18702M6	4050.064	ng/ml	
42) Benzo[g,h,i]perylene	9.387	276	18379	3719.050	ng/ml	98

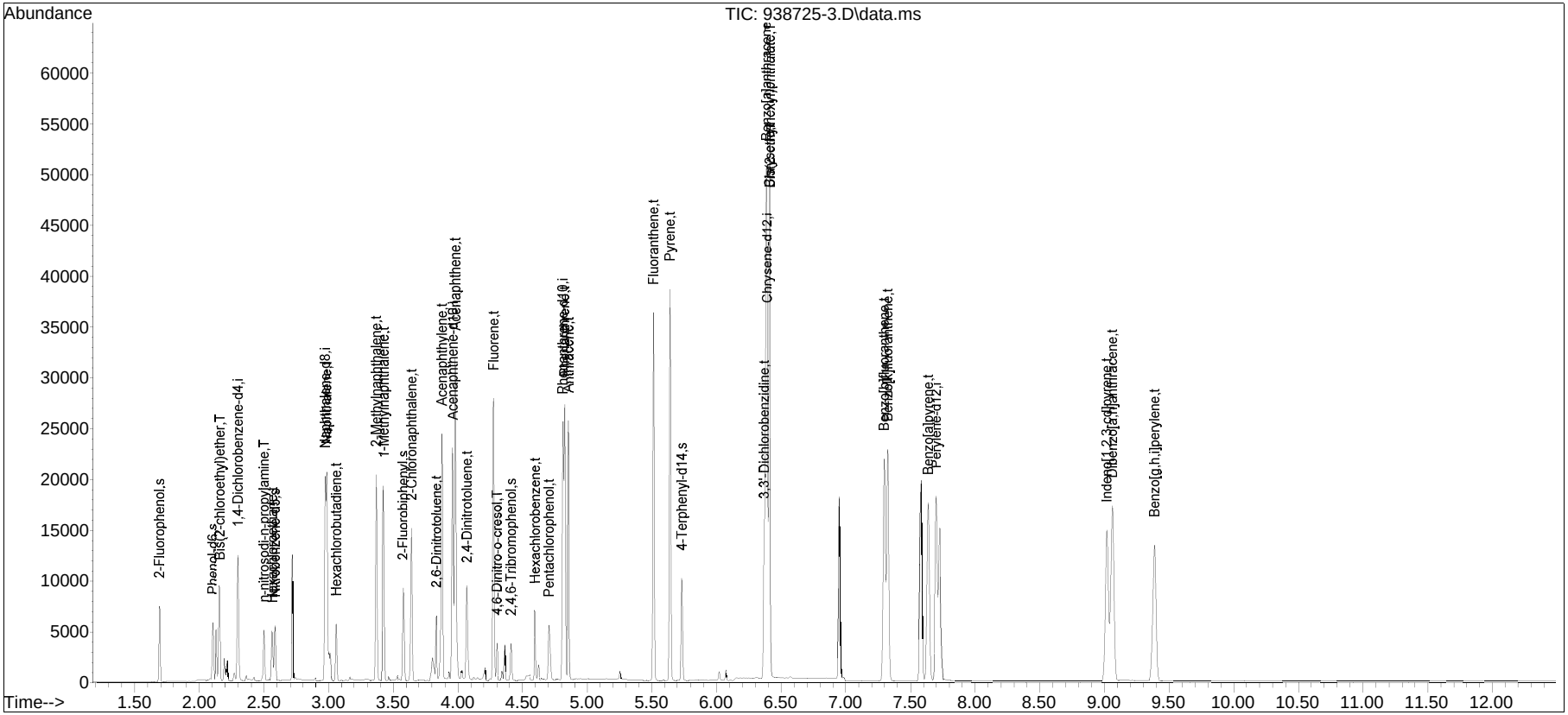
(#) = qualifier out of range (m) = manual integration (+) = signals summed

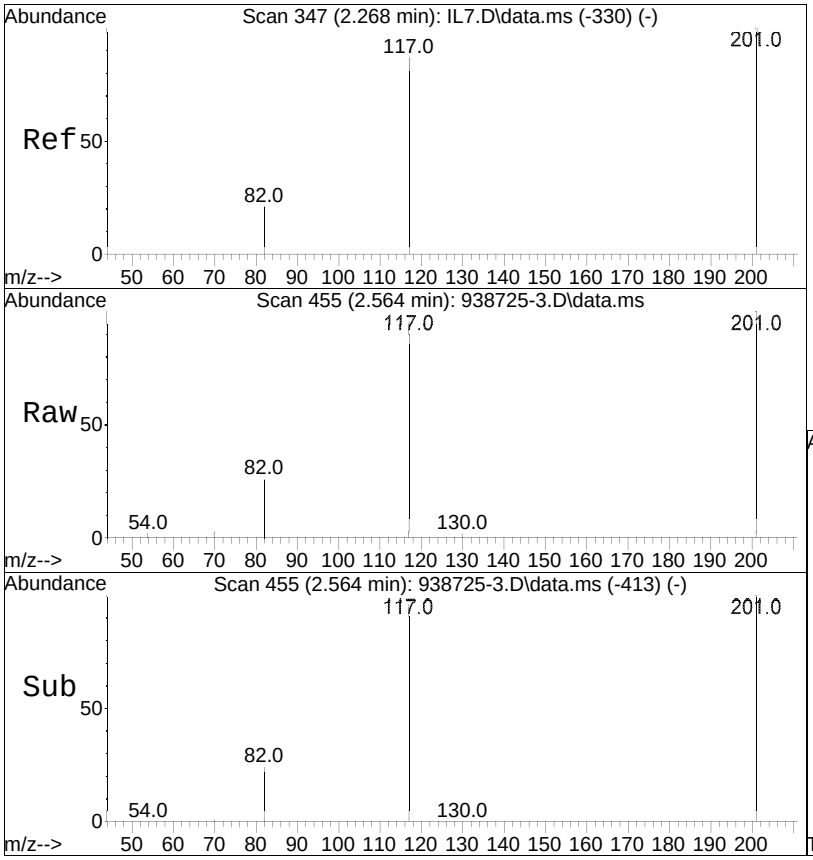
Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV128\240625\
Data File : 938725-3.D
Acq On : 25 Jun 2024 11:19 am
Operator : SV128:rp
Sample : WG1938725-3,32,,jjw
Misc : WG1939038,WG1938725,ical20676
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 25 12:33:17 2024
Quant Method : I:\8270sim\sv128\240625\SIM-LVI_231211_sv128.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Jun 25 10:22:00 2024
Response via : Initial Calibration

Sub List : DEFAULT - All compounds listedv0625.D•

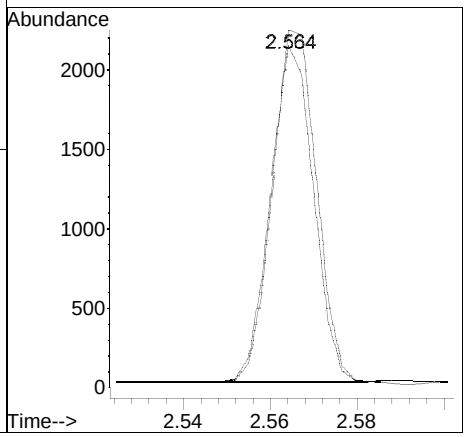


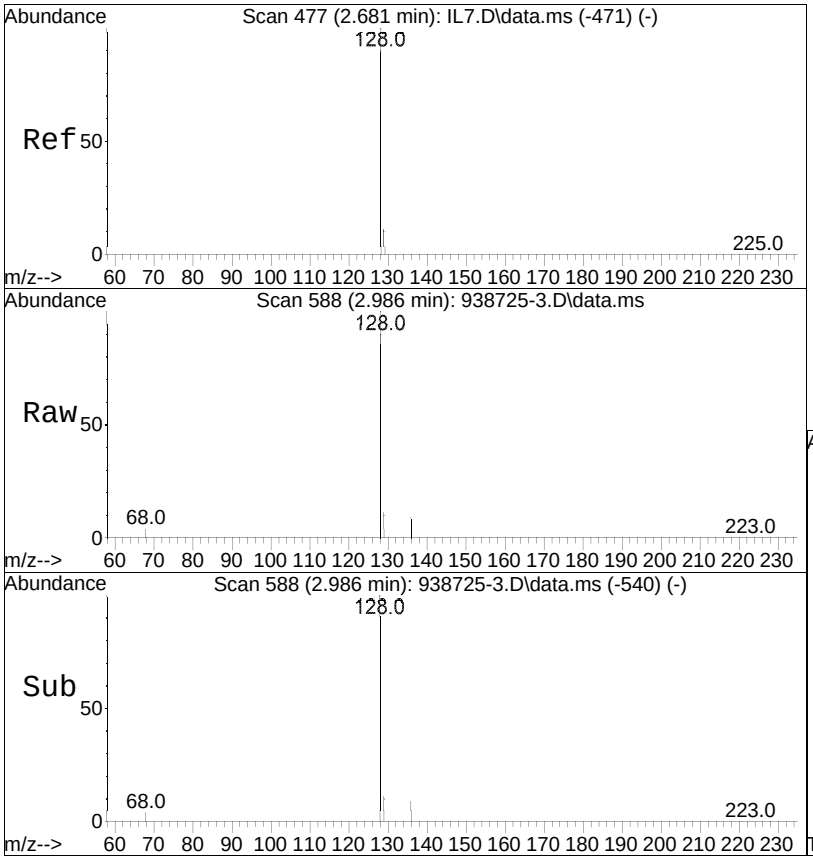


#6
Hexachloroethane
Concen: 3591.39 ng/ml
RT: 2.564 min Scan# 455
Delta R.T. -0.005 min
Lab File: 938725-3.D
Acq: 25 Jun 2024 11:19 am

Tgt Ion:117 Resp: 1436

Ion	Ratio	Lower	Upper
117	100		
201	109.5	91.8	137.6

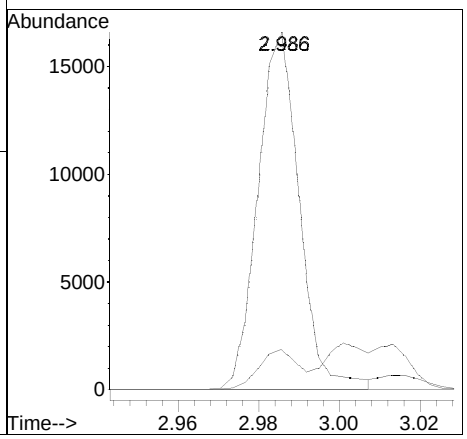


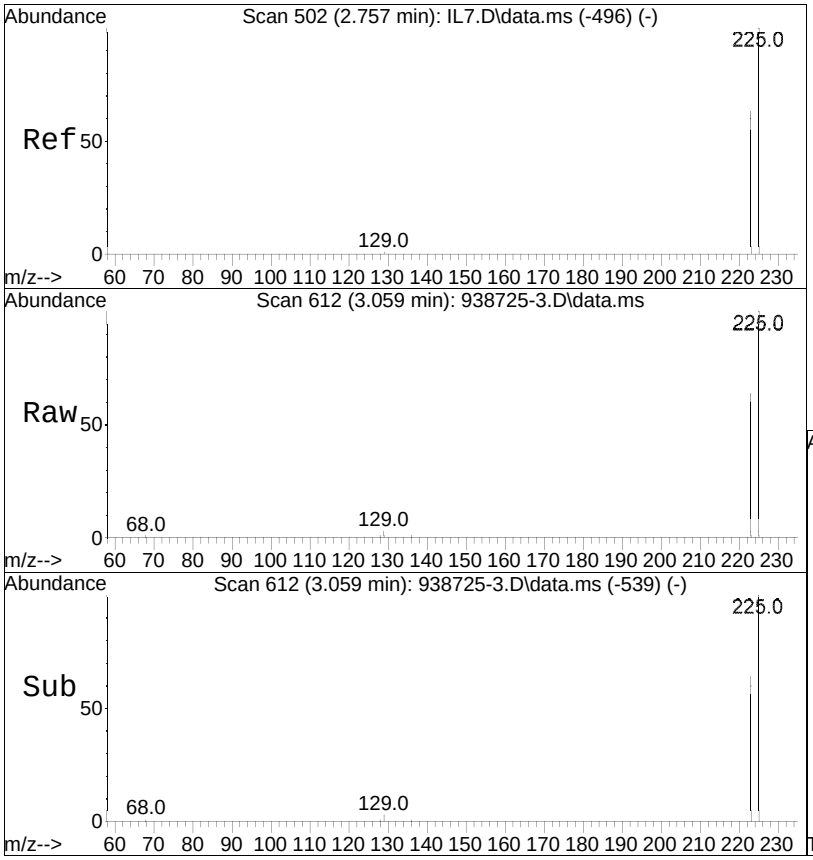


#9
Naphthalene
Concen: 3467.06 ng/ml
RT: 2.986 min Scan# 588
Delta R.T. -0.002 min
Lab File: 938725-3.D
Acq: 25 Jun 2024 11:19 am

Tgt Ion:128 Resp: 11657

Ion	Ratio	Lower	Upper
128	100		
129	10.7	8.8	13.2
127	0.0	0.0	0.0

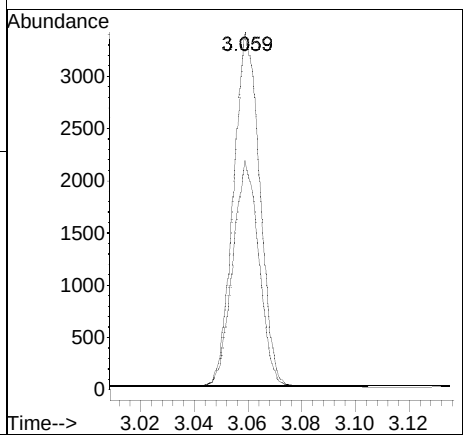


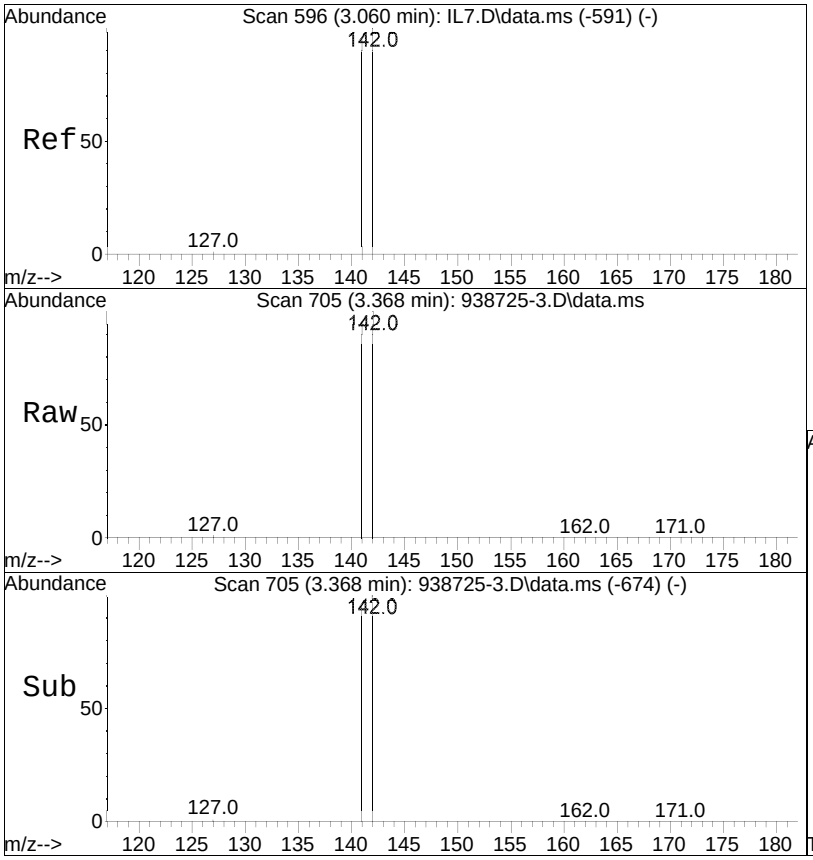


#10
Hexachlorobutadiene
Concen: 2936.98 ng/ml
RT: 3.059 min Scan# 612
Delta R.T. -0.005 min
Lab File: 938725-3.D
Acq: 25 Jun 2024 11:19 am

Tgt Ion:225 Resp: 2262

Ion	Ratio	Lower	Upper
225	100		
223	66.0	49.9	74.9

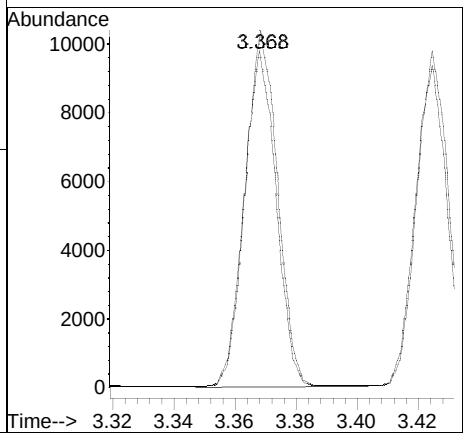


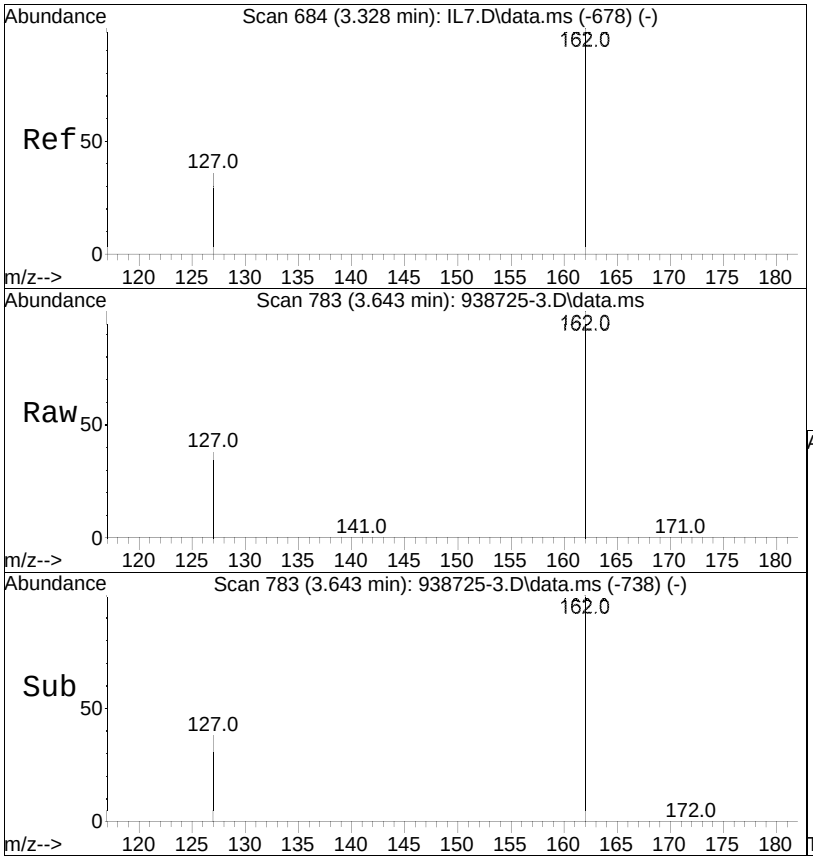


#11
2-Methylnaphthalene
Concen: 3545.42 ng/ml
RT: 3.368 min Scan# 705
Delta R.T. -0.006 min
Lab File: 938725-3.D
Acq: 25 Jun 2024 11:19 am

Tgt Ion:142 Resp: 7615

Ion	Ratio	Lower	Upper
142	100		
141	93.8	75.9	113.9

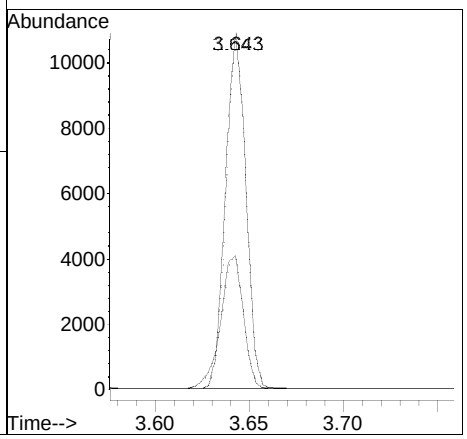


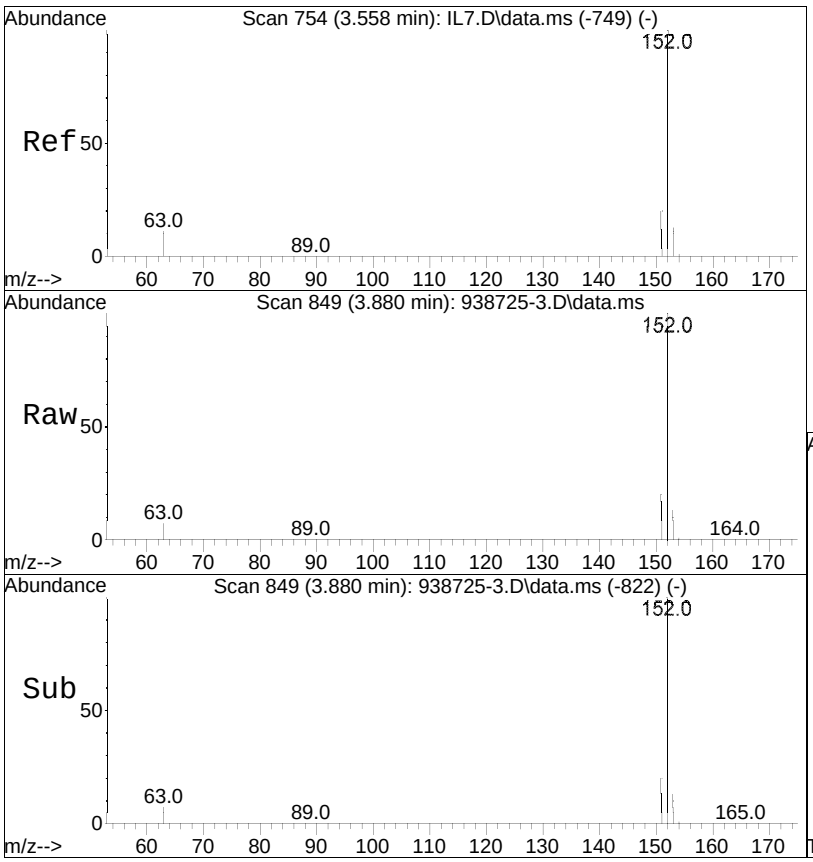


#14
2-Chloronaphthalene
Concen: 3402.53 ng/ml
RT: 3.643 min Scan# 783
Delta R.T. -0.003 min
Lab File: 938725-3.D
Acq: 25 Jun 2024 11:19 am

Tgt Ion:162 Resp: 7956

Ion	Ratio	Lower	Upper
162	100		
127	42.4	29.3	43.9

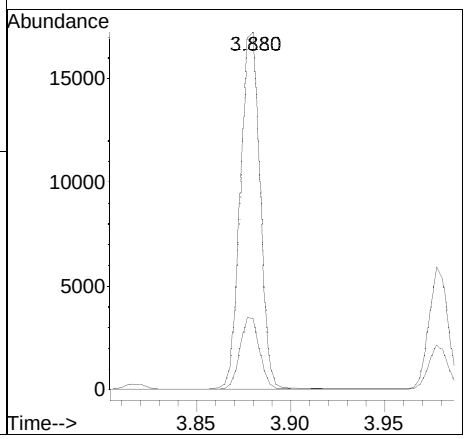


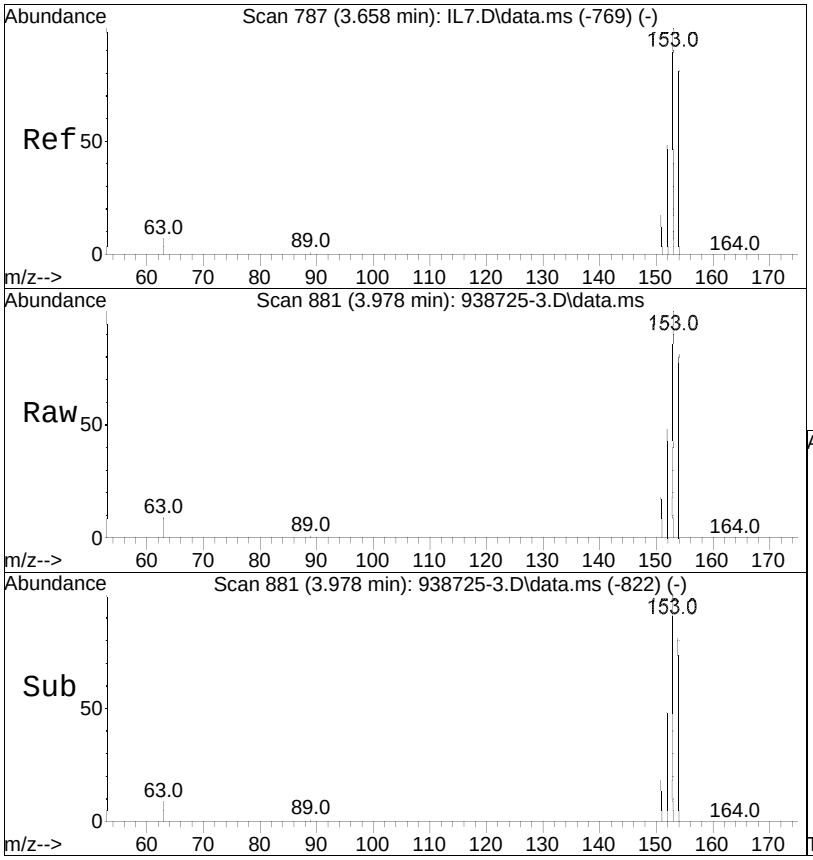


#16
Acenaphthylene
Concen: 3596.05 ng/ml
RT: 3.880 min Scan# 849
Delta R.T. -0.002 min
Lab File: 938725-3.D
Acq: 25 Jun 2024 11:19 am

Tgt Ion:152 Resp: 12456

Ion	Ratio	Lower	Upper
152	100		
151	19.9	16.4	24.6

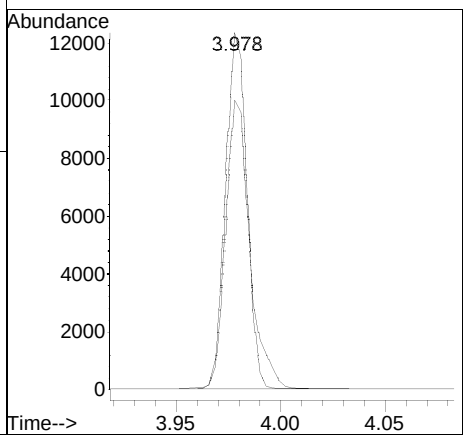


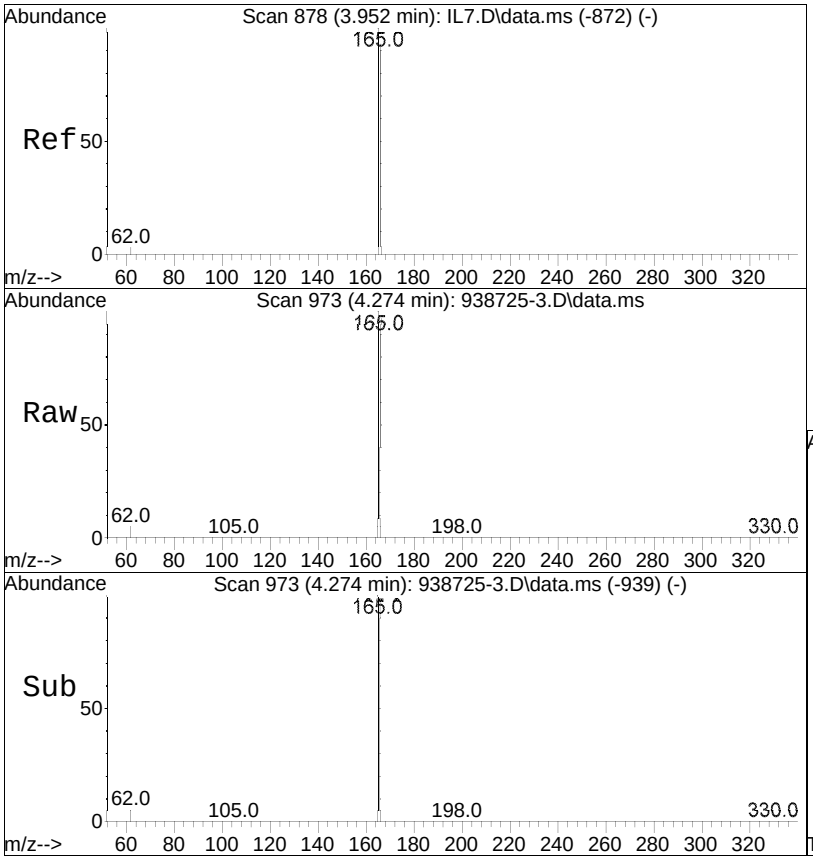


#18
Acenaphthene
Concen: 3583.69 ng/ml
RT: 3.978 min Scan# 881
Delta R.T. -0.005 min
Lab File: 938725-3.D
Acq: 25 Jun 2024 11:19 am

Tgt Ion:153 Resp: 8623

Ion	Ratio	Lower	Upper
153	100		
154	91.8	65.8	98.6

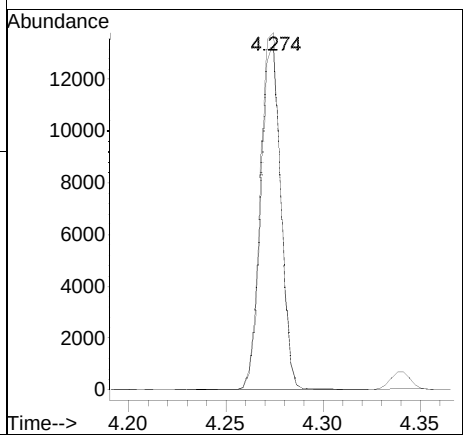


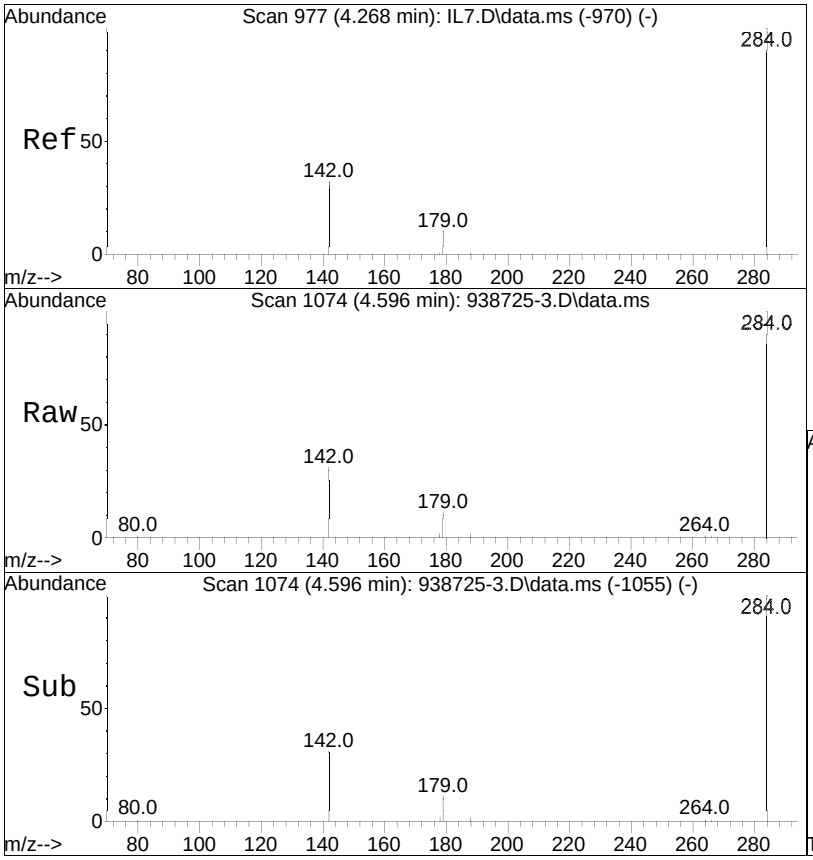


#20
Fluorene
Concen: 3921.08 ng/ml
RT: 4.274 min Scan# 973
Delta R.T. -0.002 min
Lab File: 938725-3.D
Acq: 25 Jun 2024 11:19 am

Tgt Ion:166 Resp: 9522

Ion	Ratio	Lower	Upper
166	100		
165	103.3	85.7	128.5

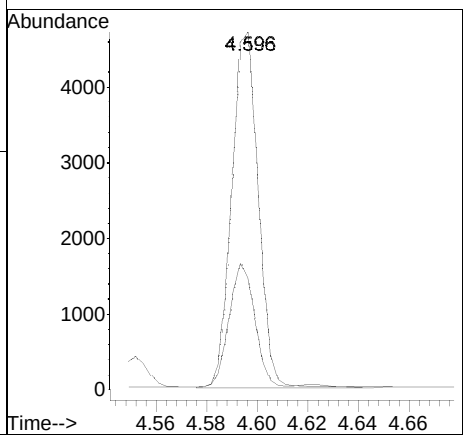


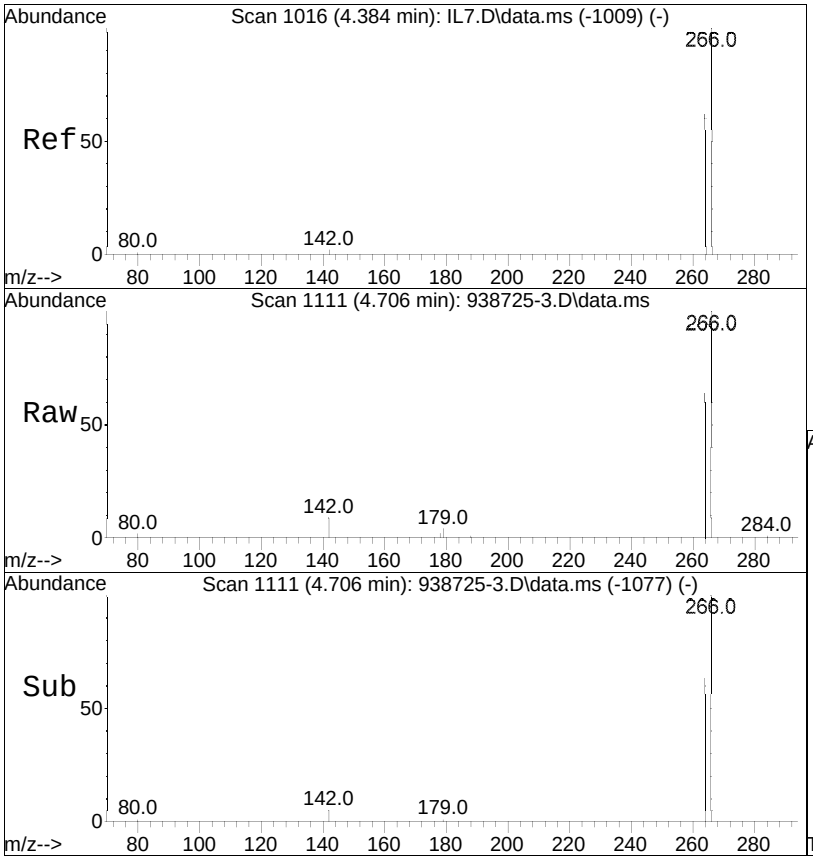


#24
Hexachlorobenzene
Concen: 3163.15 ng/ml
RT: 4.596 min Scan# 1074
Delta R.T. -0.002 min
Lab File: 938725-3.D
Acq: 25 Jun 2024 11:19 am

Tgt Ion:284 Resp: 3398

Ion	Ratio	Lower	Upper
284	100		
142	34.3	23.9	35.9

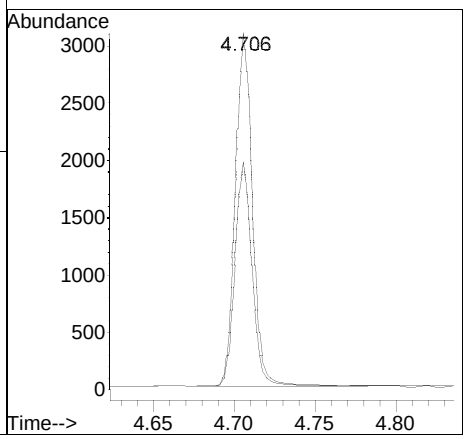


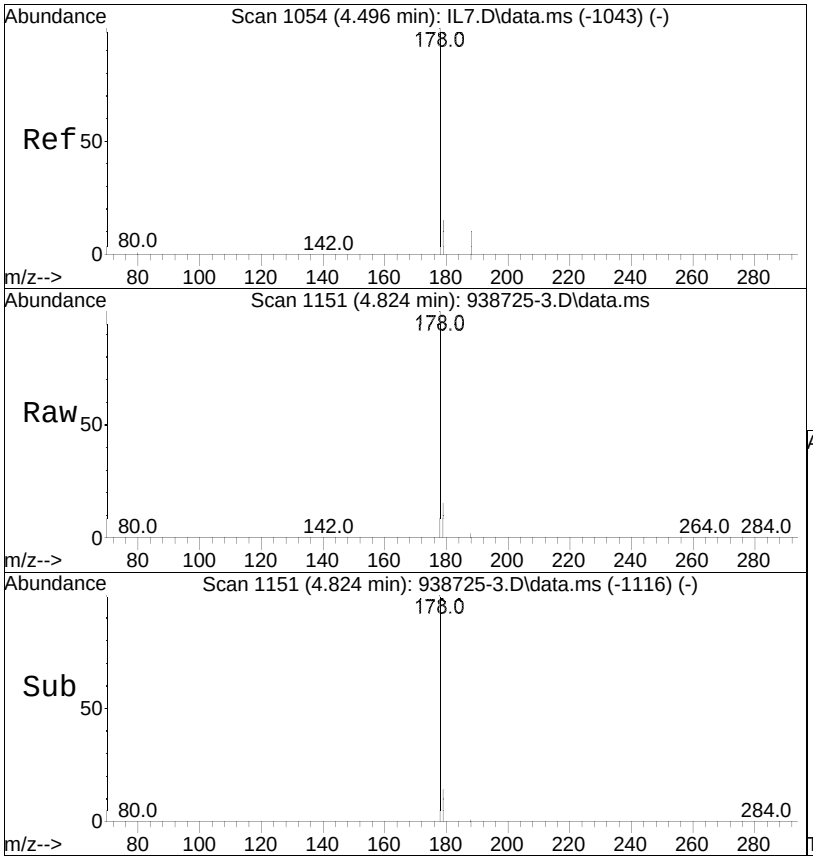


#25
Pentachlorophenol
Concen: 4109.01 ng/ml
RT: 4.706 min Scan# 1111
Delta R.T. -0.002 min
Lab File: 938725-3.D
Acq: 25 Jun 2024 11:19 am

Tgt Ion:266 Resp: 2243

Ion	Ratio	Lower	Upper
266	100		
264	67.4	49.7	74.5

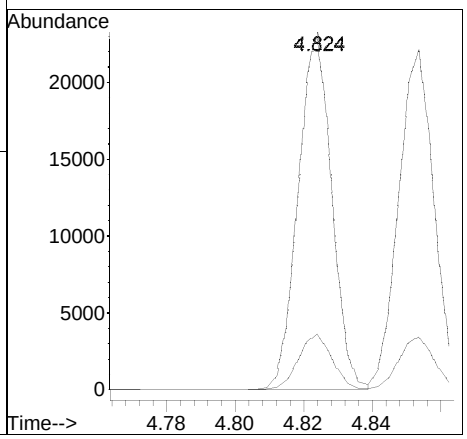


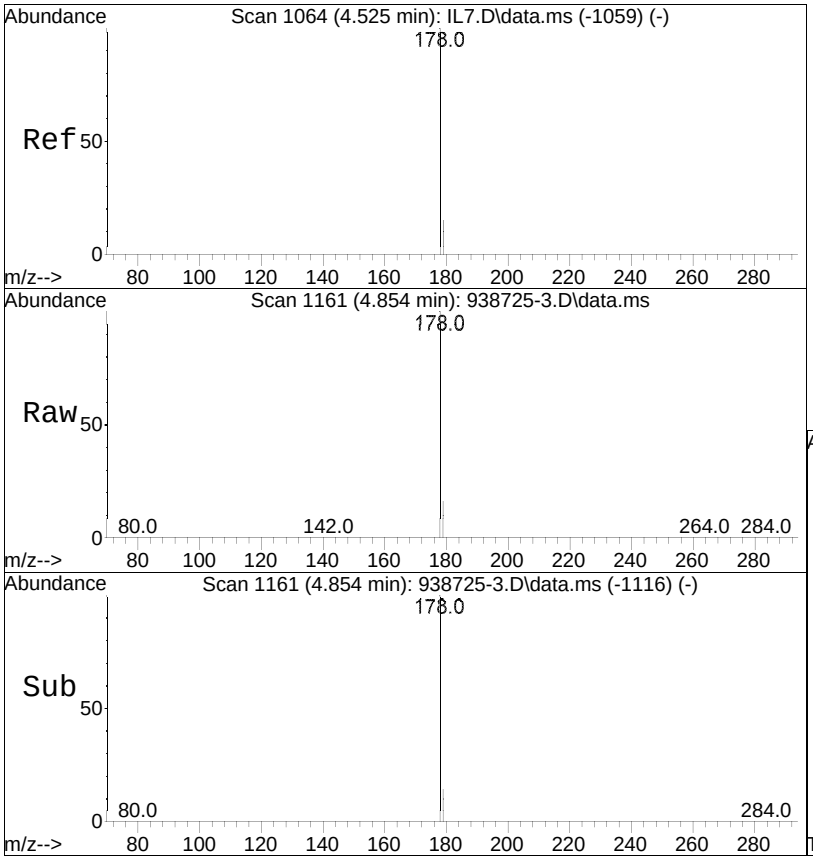


#26
Phenanthrene
Concen: 3603.92 ng/ml
RT: 4.824 min Scan# 1151
Delta R.T. -0.002 min
Lab File: 938725-3.D
Acq: 25 Jun 2024 11:19 am

Tgt Ion:178 Resp: 15733

Ion	Ratio	Lower	Upper
178	100		
179	15.5	12.2	18.4

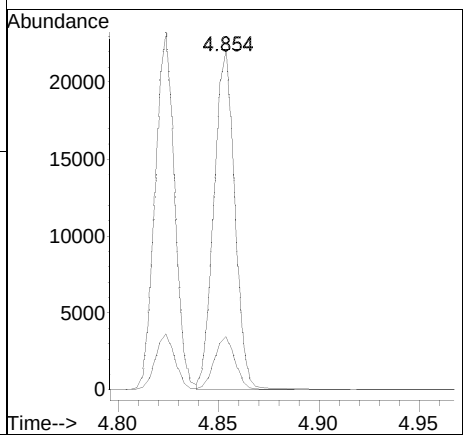


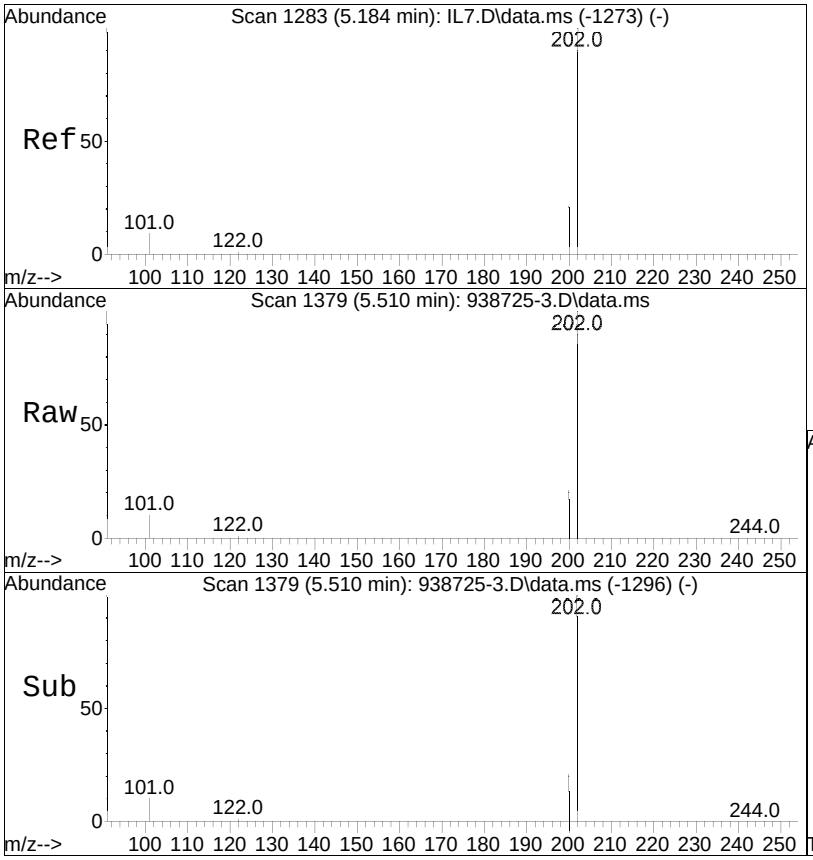


#27
Anthracene
Concen: 3758.70 ng/ml
RT: 4.854 min Scan# 1161
Delta R.T. -0.002 min
Lab File: 938725-3.D
Acq: 25 Jun 2024 11:19 am

Tgt Ion:178 Resp: 15855

Ion	Ratio	Lower	Upper
178	100		
179	15.4	12.2	18.2

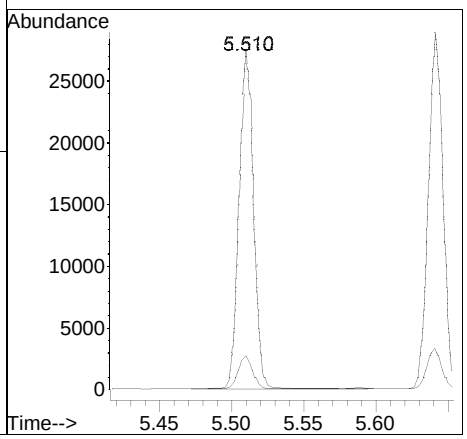


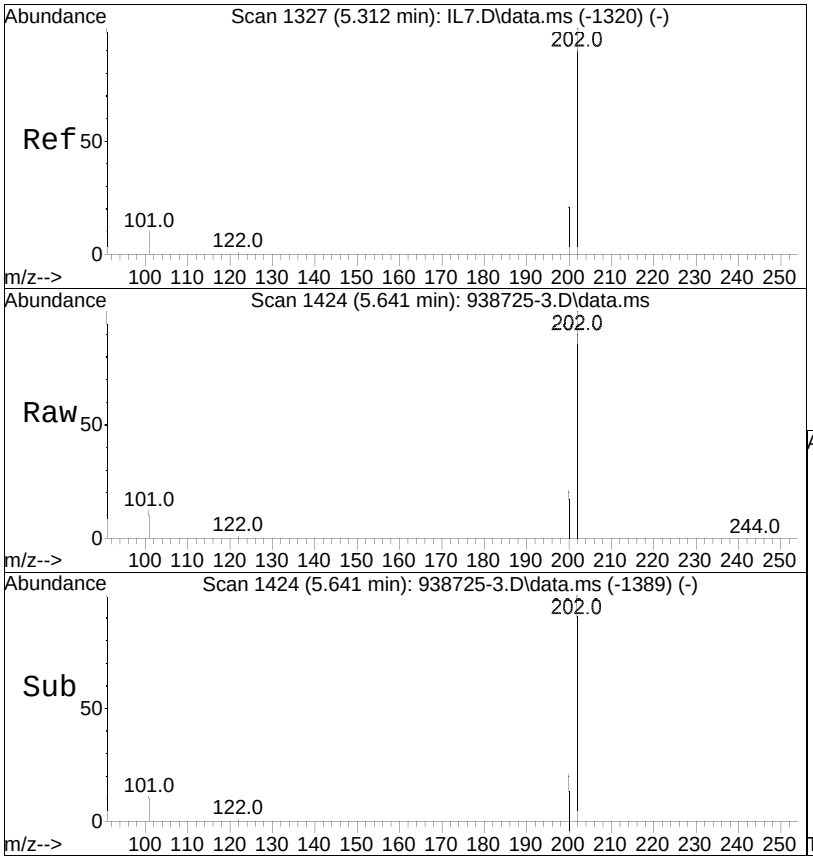


#28
Fluoranthene
Concen: 4032.58 ng/ml
RT: 5.510 min Scan# 1379
Delta R.T. -0.002 min
Lab File: 938725-3.D
Acq: 25 Jun 2024 11:19 am

Tgt Ion:202 Resp: 19341

Ion	Ratio	Lower	Upper
202	100		
101	9.8	7.2	10.8

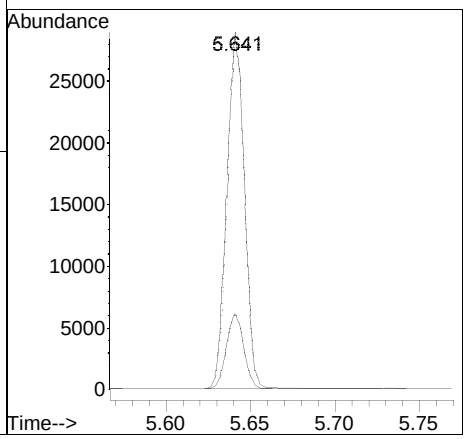


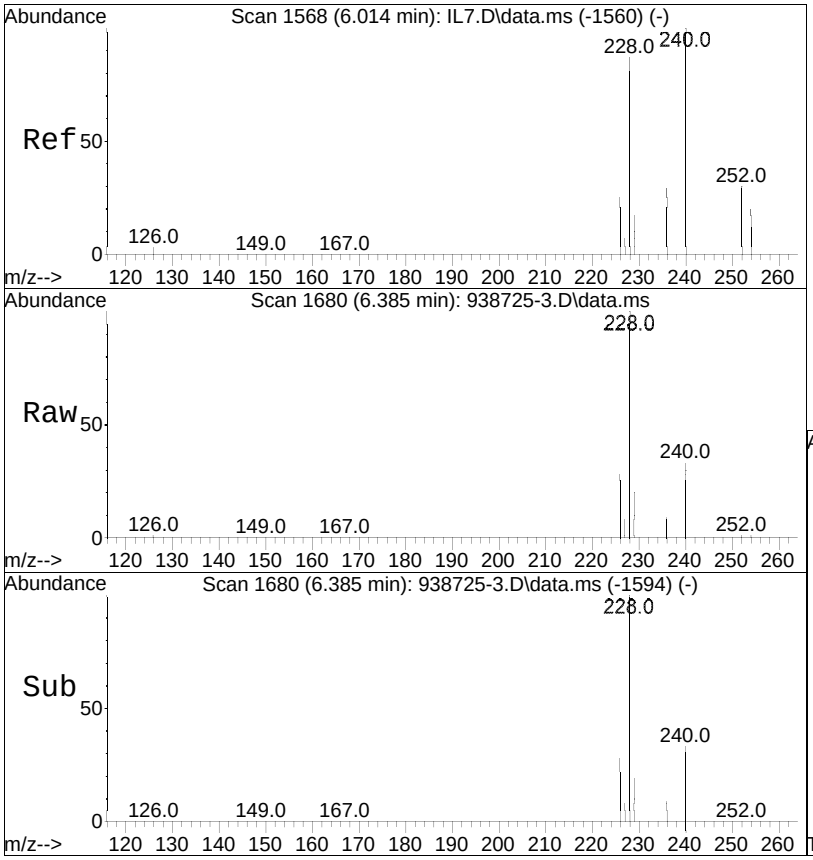


#29
Pyrene
Concen: 4132.75 ng/ml
RT: 5.641 min Scan# 1424
Delta R.T. -0.002 min
Lab File: 938725-3.D
Acq: 25 Jun 2024 11:19 am

Tgt Ion:202 Resp: 20508

Ion	Ratio	Lower	Upper
202	100		
200	21.2	17.7	26.5

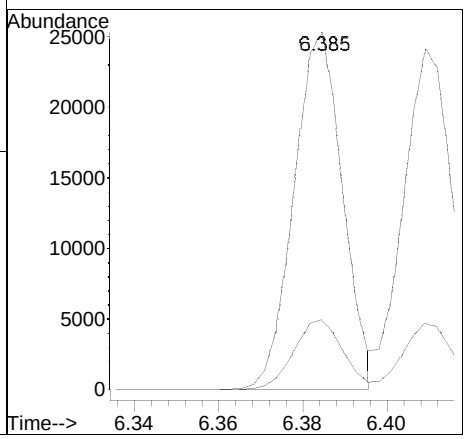


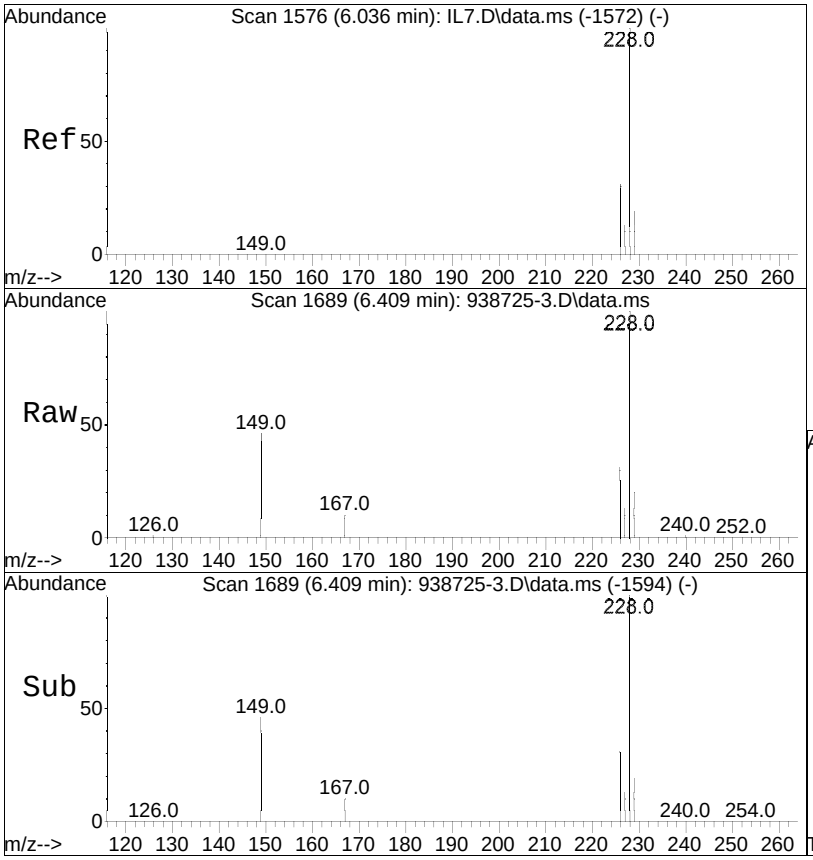


#32
Benzo[a]anthracene
Concen: 3681.61 ng/ml
RT: 6.385 min Scan# 1680
Delta R.T. 0.001 min
Lab File: 938725-3.D
Acq: 25 Jun 2024 11:19 am

Tgt Ion:228 Resp: 20235

Ion	Ratio	Lower	Upper
228	100		
229	19.5	15.7	23.5

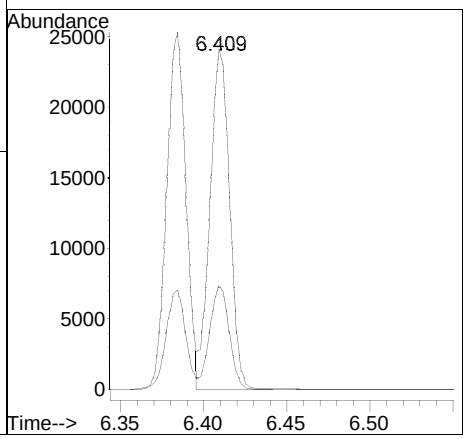


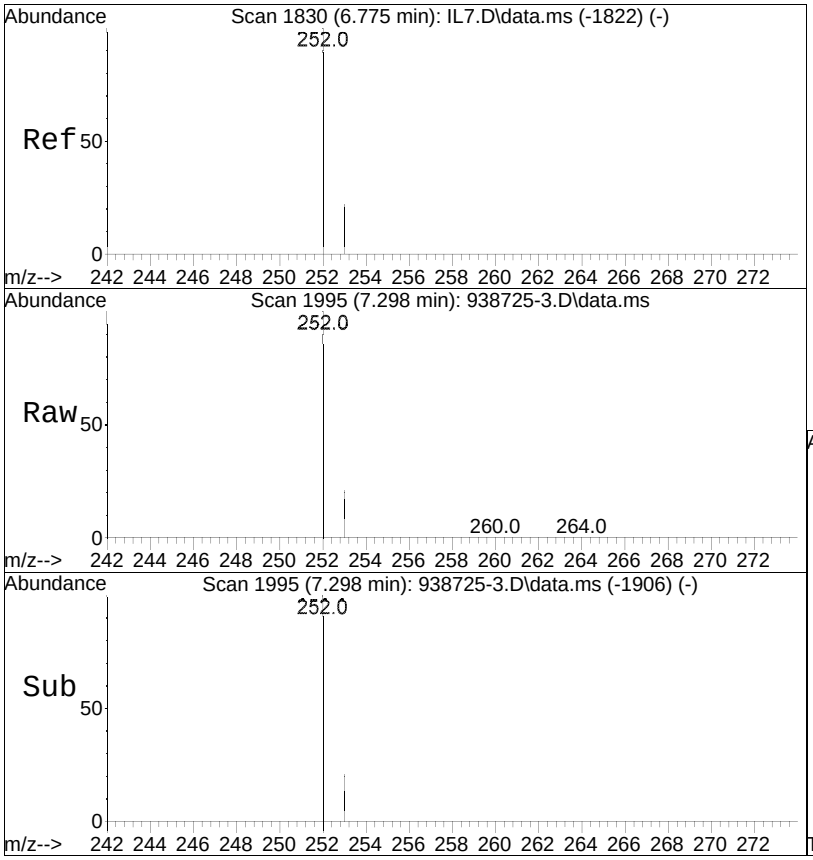


#34
Chrysene
Concen: 3715.26 ng/ml
RT: 6.409 min Scan# 1689
Delta R.T. 0.001 min
Lab File: 938725-3.D
Acq: 25 Jun 2024 11:19 am

Tgt Ion:228 Resp: 19602

Ion	Ratio	Lower	Upper
228	100		
226	30.5	24.6	36.8

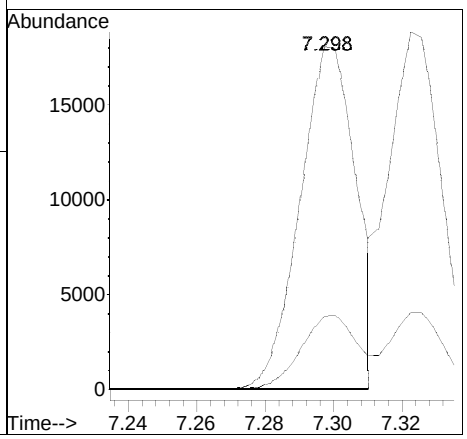


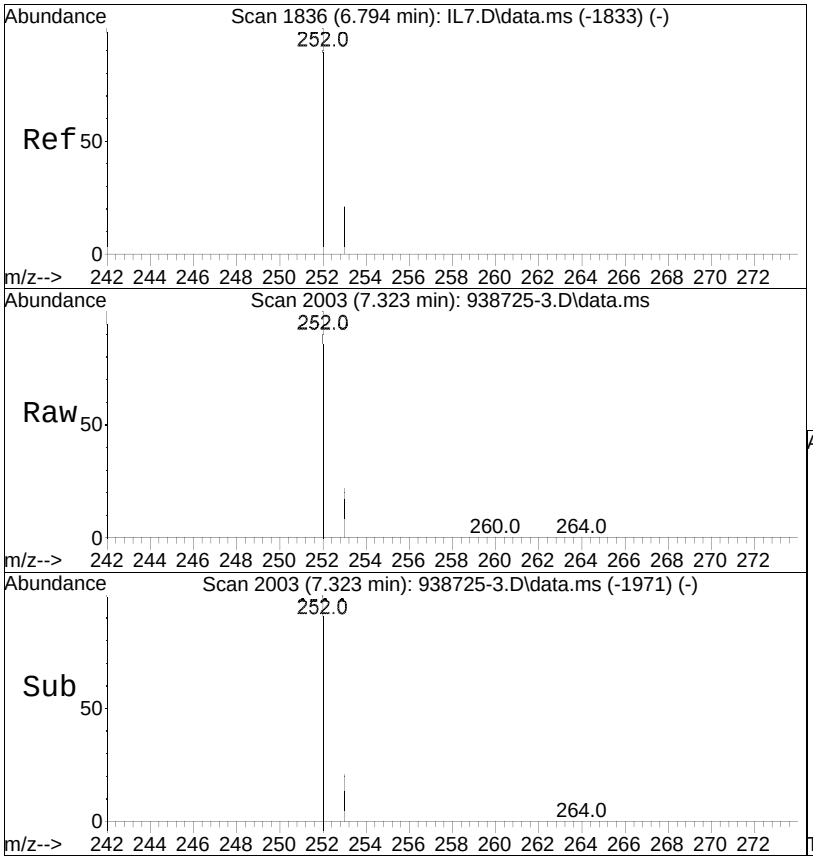


#37
Benzo[b]fluoranthene
Concen: 3810.84 ng/ml
RT: 7.298 min Scan# 1995
Delta R.T. 0.001 min
Lab File: 938725-3.D
Acq: 25 Jun 2024 11:19 am

Tgt Ion:252 Resp: 20577

Ion	Ratio	Lower	Upper
252	100		
253	21.4	17.1	25.7

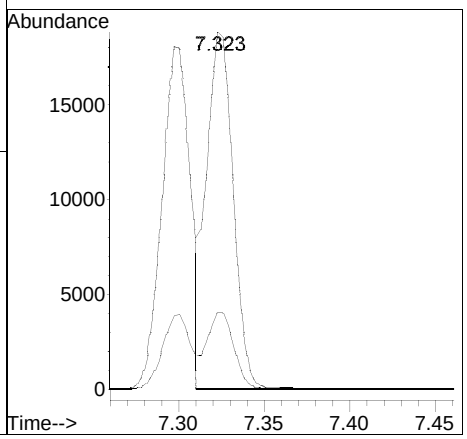


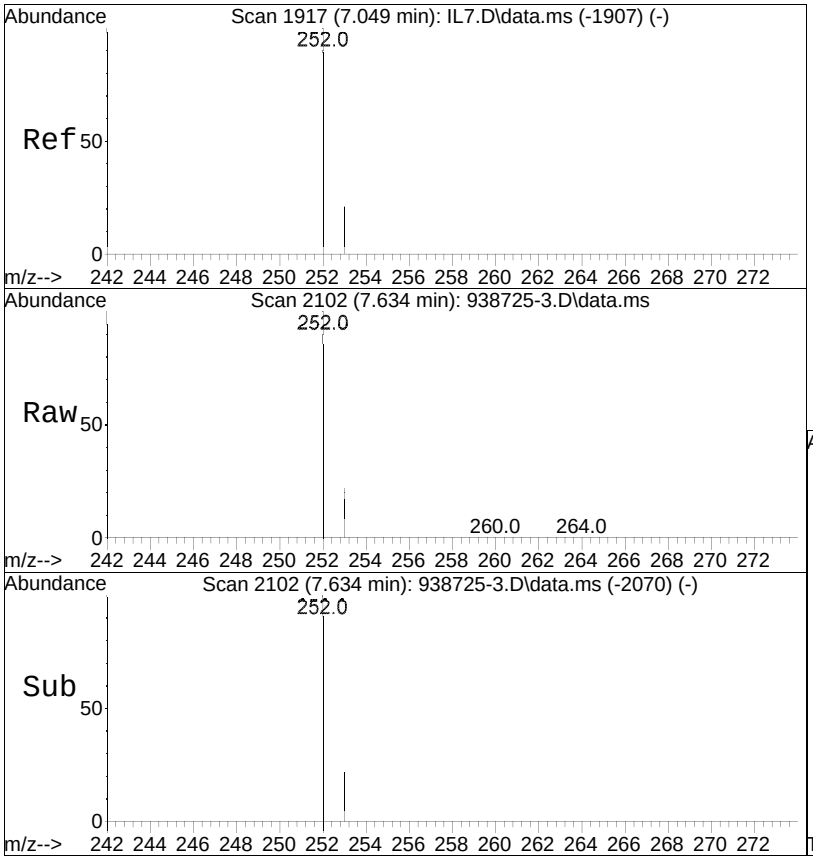


#38
Benzo[k]fluoranthene
Concen: 4057.25 ng/ml
RT: 7.323 min Scan# 2003
Delta R.T. 0.001 min
Lab File: 938725-3.D
Acq: 25 Jun 2024 11:19 am

Tgt Ion:252 Resp: 20387

Ion	Ratio	Lower	Upper
252	100		
253	21.8	17.3	25.9

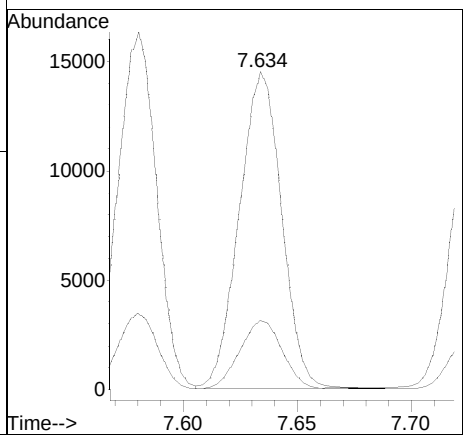


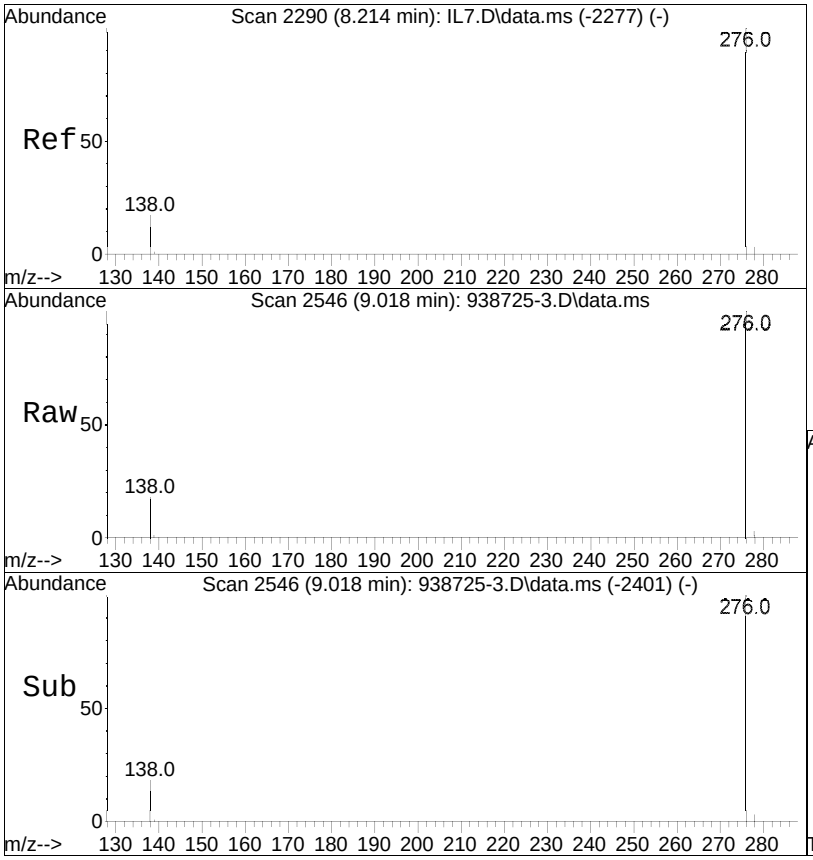


#39
Benzo[a]pyrene
Concen: 3893.32 ng/ml
RT: 7.634 min Scan# 2102
Delta R.T. 0.001 min
Lab File: 938725-3.D
Acq: 25 Jun 2024 11:19 am

Tgt Ion:252 Resp: 18512

Ion	Ratio	Lower	Upper
252	100		
253	21.7	17.3	25.9

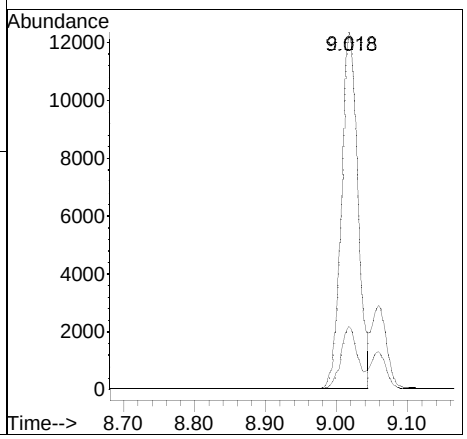


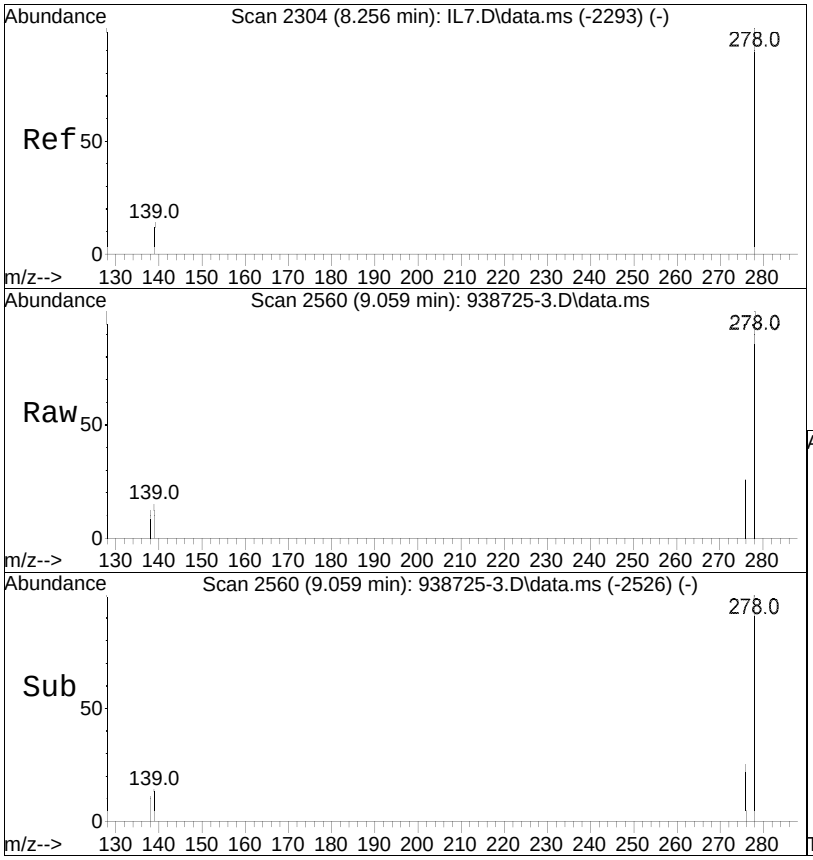


#40
Indeno[1,2,3-cd]pyrene
Concen: 4080.39 ng/ml
RT: 9.018 min Scan# 2546
Delta R.T. 0.001 min
Lab File: 938725-3.D
Acq: 25 Jun 2024 11:19 am

Tgt Ion:276 Resp: 19400

Ion	Ratio	Lower	Upper
276	100		
138	17.3	13.4	20.2

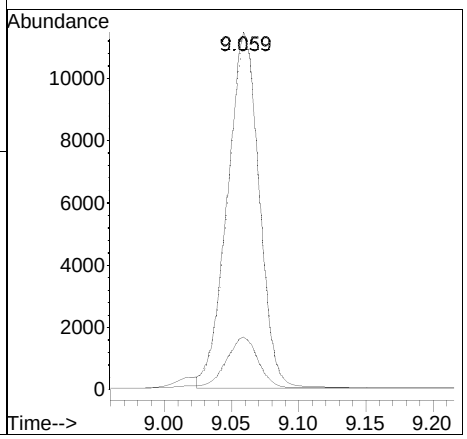


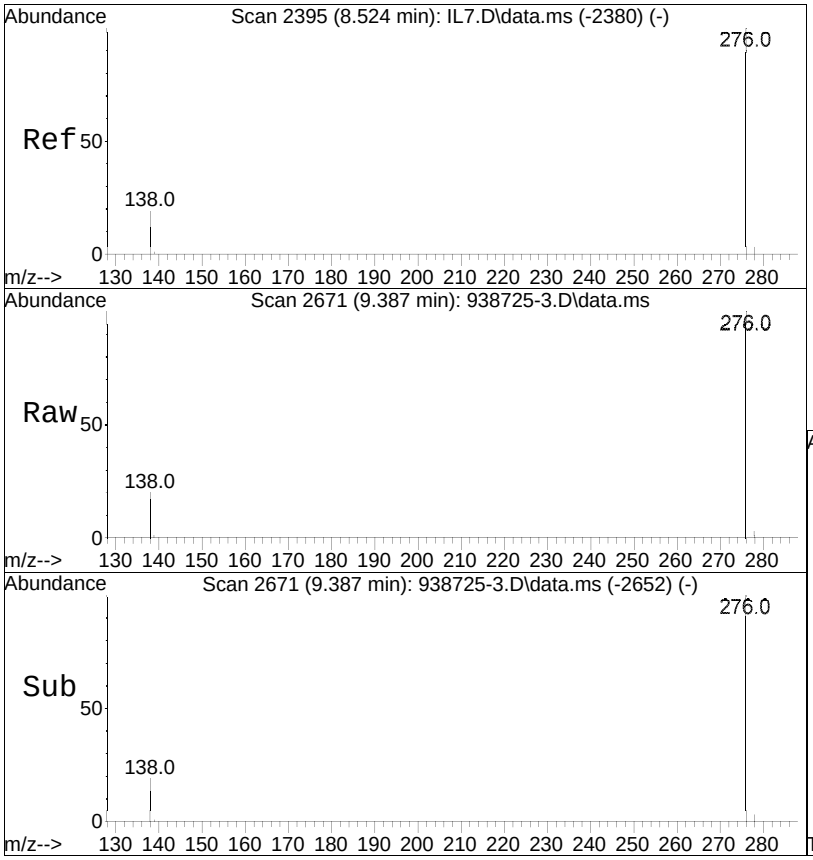


#41
Dibenzo[a,h]anthracene
Concen: 4050.06 ng/ml M6
RT: 9.059 min Scan# 2560
Delta R.T. 0.001 min
Lab File: 938725-3.D
Acq: 25 Jun 2024 11:19 am

Tgt Ion:278 Resp: 18702

Ion	Ratio	Lower	Upper
278	100		
139	14.9	10.9	16.3

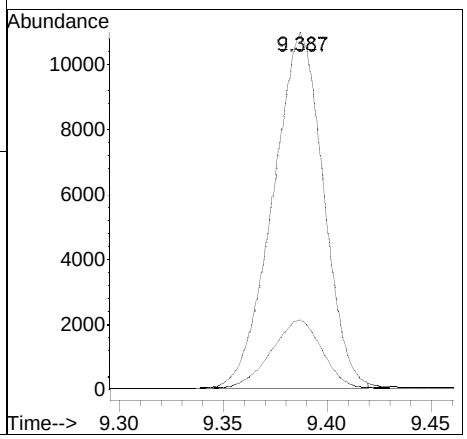




#42
Benzo[g,h,i]perylene
Concen: 3719.05 ng/ml
RT: 9.387 min Scan# 2671
Delta R.T. 0.007 min
Lab File: 938725-3.D
Acq: 25 Jun 2024 11:19 am

Tgt Ion:276 Resp: 18379

Ion	Ratio	Lower	Upper
276	100		
138	19.4	14.8	22.2

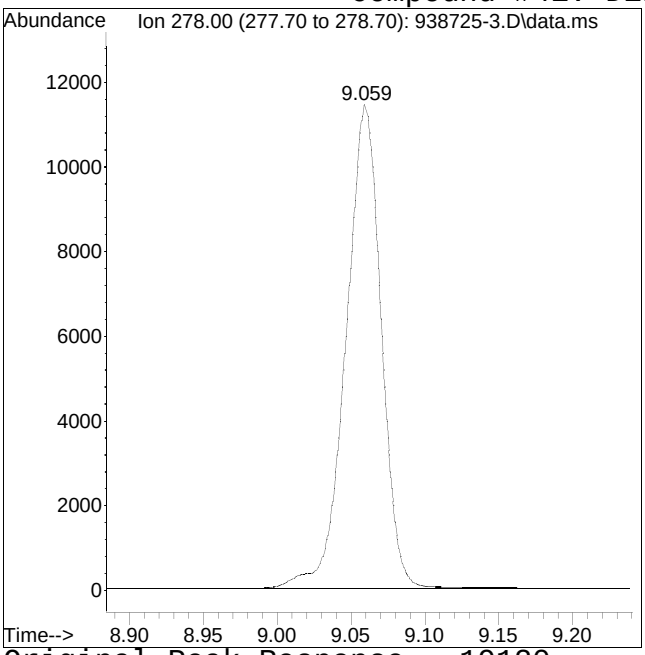


Manual Integration Report

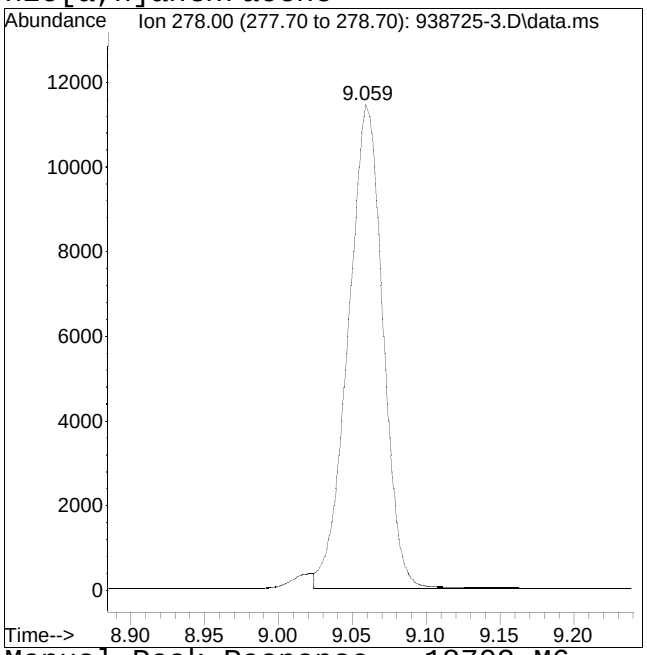
Data Path : I:\8270SIM\SV128\240625\
Data File : 938725-3.D
Date Inj'd : 6/25/2024 11:19 am
Sample : WG1938725-3,32,,jjw

QMethod : SIM-LVI_231211_sv128.M
Operator : SV128:rp
Instrument : SV128
Quant Date : 6/25/2024 11:32 am

Compound #41: Dibenzo[a,h]anthracene



Original Peak Response = 19120



Manual Peak Response = 18702 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV128\240624\
Data File : 938280-4.D
Acq On : 24 Jun 2024 01:08 pm
Operator : SV128:jjw
Sample : WG1938280-4,32,,jjw
Misc : WG1938533,WG1938280,ical20676
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 27 14:34:47 2024
Quant Method : I:\8270sim\sv128\240624\SIM-LVI_231211_sv128.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 24 11:39:29 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270sim\sv128\240624\ccv0624.D
Sub List : DEFAULT - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.302	152	3967	4000.000	ng/ml	0.00
Standard Area 1 = 4069			Recovery = 97.49%			
8) Naphthalene-d8	2.975	136	14938	4000.000	ng/ml	0.00
Standard Area 1 = 14375			Recovery = 103.92%			
17) Acenaphthene-d10	3.960	164	7878	4000.000	ng/ml	0.00
Standard Area 1 = 8180			Recovery = 96.31%			
22) Phenanthrene-d10	4.807	188	17128	4000.000	ng/ml	0.00
Standard Area 1 = 17962			Recovery = 95.36%			
31) Chrysene-d12	6.388	240	16749	4000.000	ng/ml	0.00
Standard Area 1 = 16460			Recovery = 101.76%			
36) Perylene-d12	7.700	264	19742	4000.000	ng/ml	-0.01
Standard Area 1 = 18271			Recovery = 108.05%			
System Monitoring Compounds						
2) 2-Fluorophenol	1.695	112	3345	3348.495	ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 66.97%			
3) Phenol-d6	2.109	99	3549	3039.923	ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 60.80%			
7) Nitrobenzene-d5	2.584	82	2207	2339.216	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 93.57%			
13) 2-Fluorobiphenyl	3.573	172	5471	1727.003	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 69.08%			
21) 2,4,6-Tribromophenol	4.409	330	1713	4351.295	ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 87.03%			
30) 4-Terphenyl-d14	5.729	244	6913	1937.292	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 77.49%			
Target Compounds						Qvalue
6) Hexachloroethane	2.565	117	1714	3617.779	ng/ml	93
9) Naphthalene	2.984	128	12949	3380.291	ng/ml#	99
10) Hexachlorobutadiene	3.060	225	2643	3011.963	ng/ml	100
11) 2-Methylnaphthalene	3.366	142	8507	3476.300	ng/ml	98
14) 2-Chloronaphthalene	3.640	162	9065	3402.654	ng/ml	91
16) Acenaphthylene	3.878	152	13712	3474.490	ng/ml	100
18) Acenaphthene	3.975	153	9597	3603.708	ng/ml	89
20) Fluorene	4.272	166	10333	3844.551	ng/ml	98
24) Hexachlorobenzene	4.594	284	3977	3489.443	ng/ml	95
25) Pentachlorophenol	4.703	266	2728	4587.702	ng/ml	99

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV128\240624\
Data File : 938280-4.D
Acq On : 24 Jun 2024 01:08 pm
Operator : SV128:jjw
Sample : WG1938280-4,32,,jjw
Misc : WG1938533,WG1938280,ical20676
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 27 14:34:47 2024
Quant Method : I:\8270sim\sv128\240624\SIM-LVI_231211_sv128.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 24 11:39:29 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270sim\sv128\240624\ccv0624.D
Sub List : DEFAULT - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
26) Phenanthrene	4.822	178	17102	3692.458	ng/ml	99
27) Anthracene	4.848	178	17233	3850.671	ng/ml	100
28) Fluoranthene	5.508	202	20865	4100.403	ng/ml	98
29) Pyrene	5.639	202	22249	4226.017	ng/ml	98
32) Benzo[a]anthracene	6.379	228	22670	3768.948	ng/ml	100
34) Chrysene	6.407	228	21519	3726.724	ng/ml	100
37) Benzo[b]fluoranthene	7.298	252	23718	3879.475	ng/ml	97
38) Benzo[k]fluoranthene	7.327	252	23575	4143.679	ng/ml	97
39) Benzo[a]pyrene	7.635	252	21634	4018.458	ng/ml	100
40) Indeno[1,2,3-cd]pyrene	9.030	276	22888	4251.707	ng/ml	98
41) Dibenzo[a,h]anthracene	9.066	278	22178M6	4241.817	ng/ml	
42) Benzo[g,h,i]perylene	9.390	276	21267M1	3800.775	ng/ml	

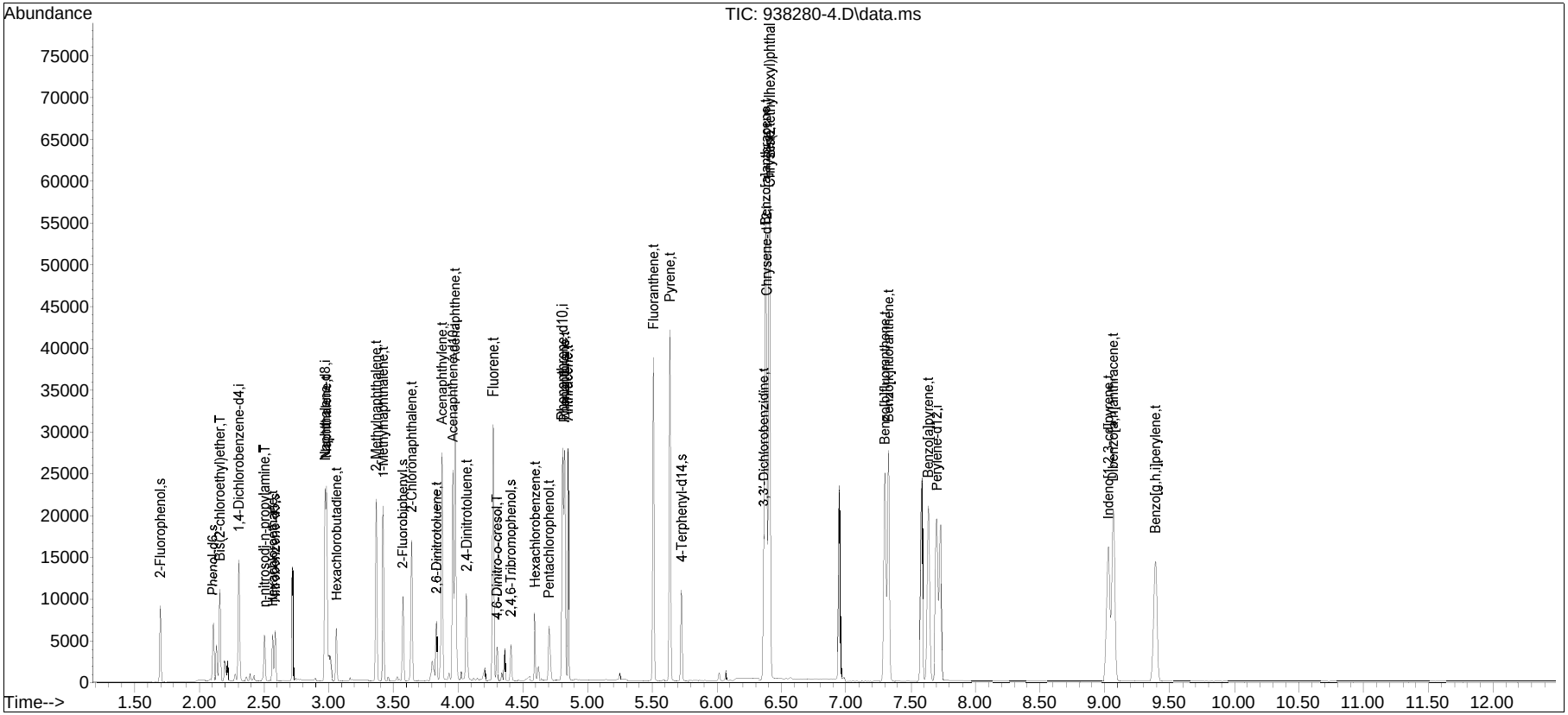
(#) = qualifier out of range (m) = manual integration (+) = signals summed

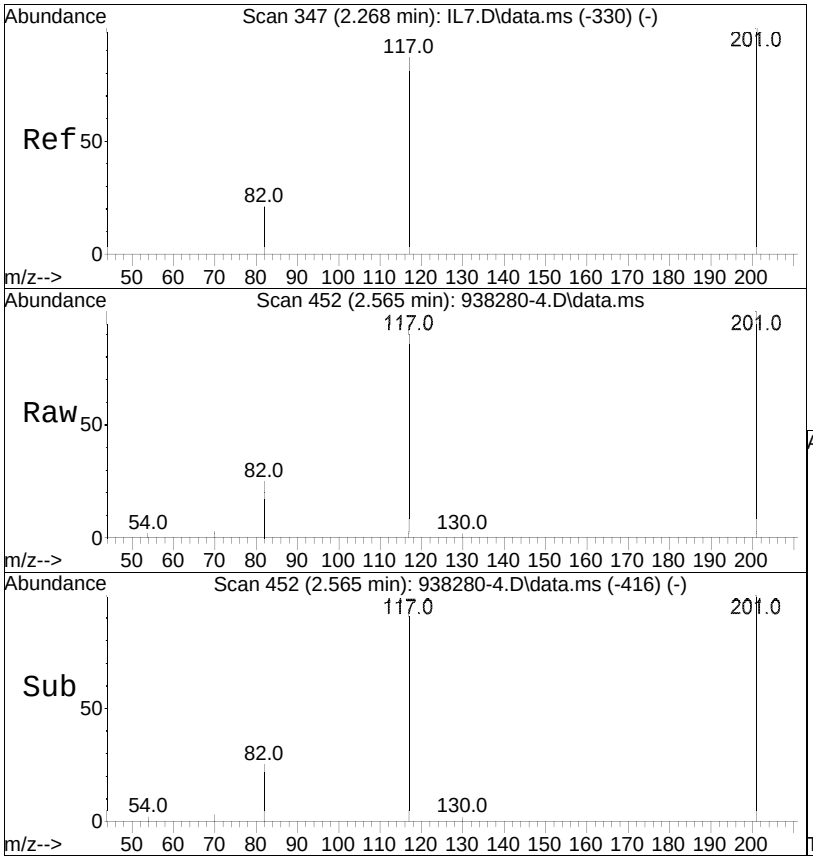
Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV128\240624\
Data File : 938280-4.D
Acq On : 24 Jun 2024 01:08 pm
Operator : SV128:jjw
Sample : WG1938280-4,32,,jjw
Misc : WG1938533,WG1938280,ical20676
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 27 14:34:47 2024
Quant Method : I:\8270sim\sv128\240624\SIM-LVI_231211_sv128.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 24 11:39:29 2024
Response via : Initial Calibration

Sub List : DEFAULT - All compounds listedv0624.D•

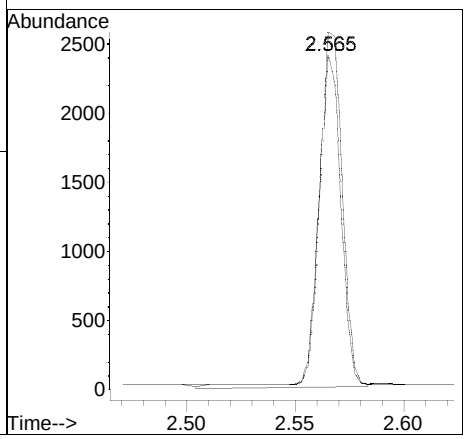


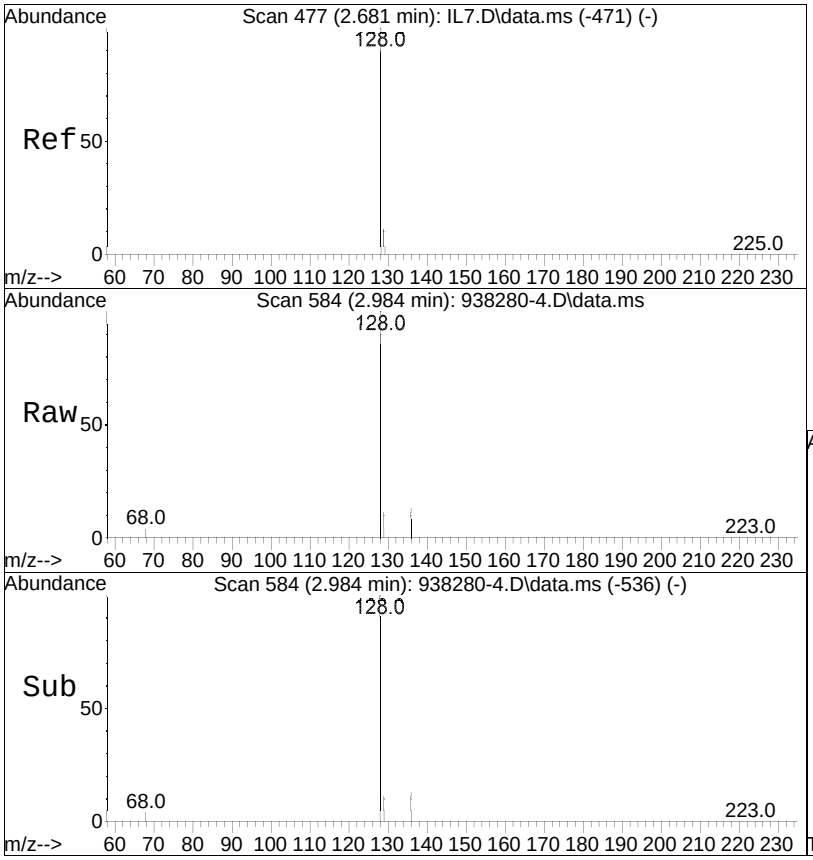


#6
Hexachloroethane
Concen: 3617.78 ng/ml
RT: 2.565 min Scan# 452
Delta R.T. -0.003 min
Lab File: 938280-4.D
Acq: 24 Jun 2024 01:08 pm

Tgt Ion:117 Resp: 1714

Ion	Ratio	Lower	Upper
117	100		
201	107.6	91.8	137.6

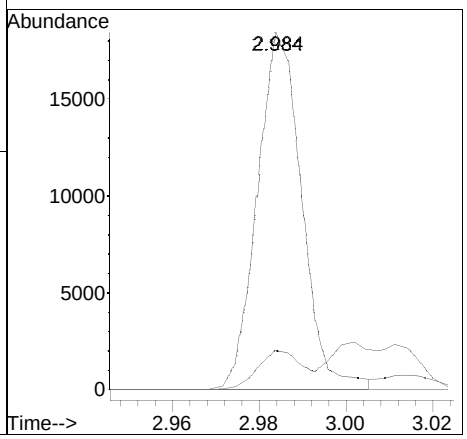


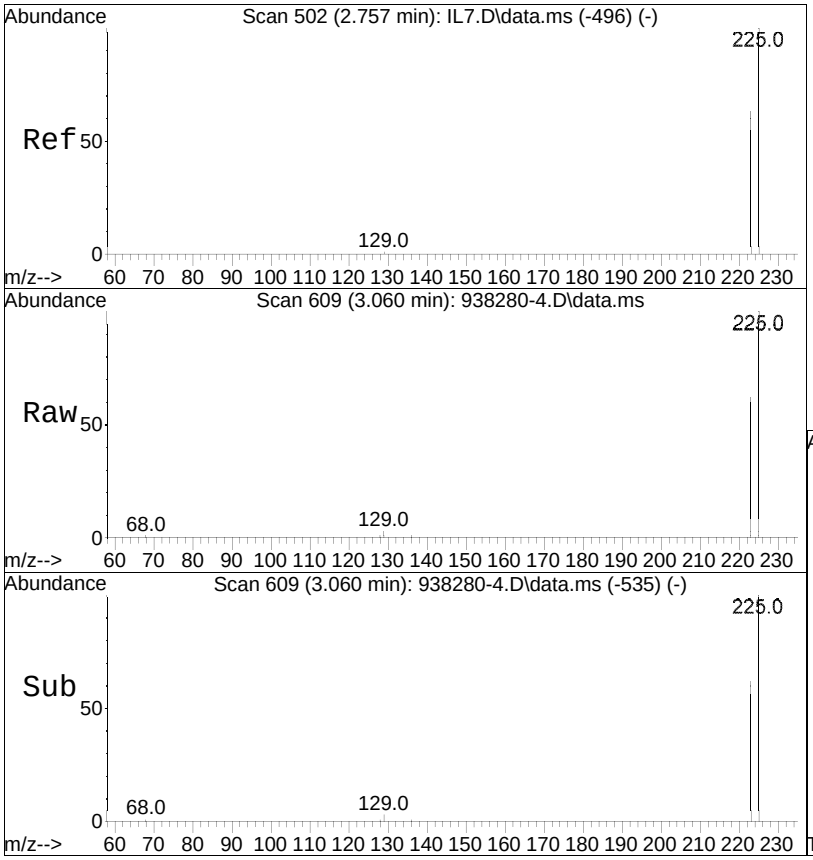


#9
Naphthalene
Concen: 3380.29 ng/ml
RT: 2.984 min Scan# 584
Delta R.T. -0.003 min
Lab File: 938280-4.D
Acq: 24 Jun 2024 01:08 pm

Tgt Ion:128 Resp: 12949

Ion	Ratio	Lower	Upper
128	100		
129	11.3	8.8	13.2
127	0.0	0.0	0.0

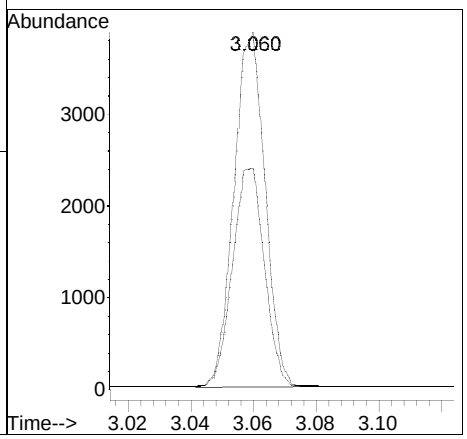


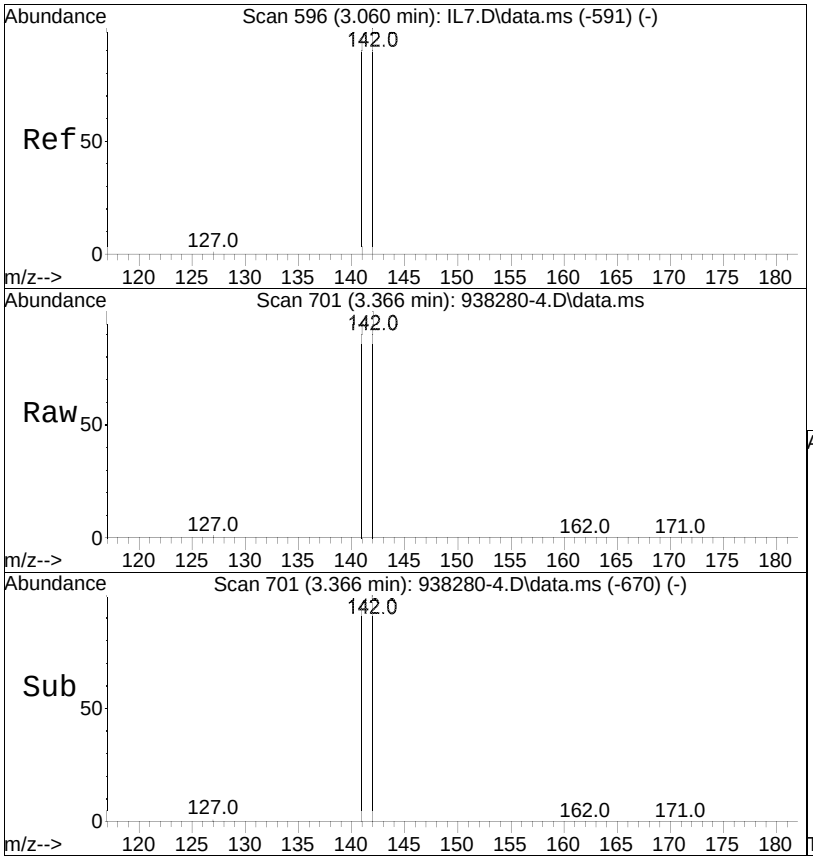


#10
Hexachlorobutadiene
Concen: 3011.96 ng/ml
RT: 3.060 min Scan# 609
Delta R.T. -0.003 min
Lab File: 938280-4.D
Acq: 24 Jun 2024 01:08 pm

Tgt Ion:225 Resp: 2643

Ion	Ratio	Lower	Upper
225	100		
223	62.6	49.9	74.9

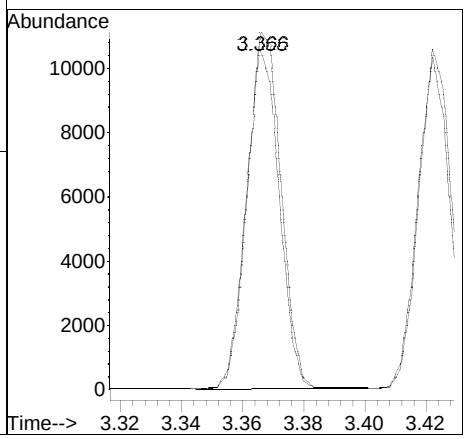


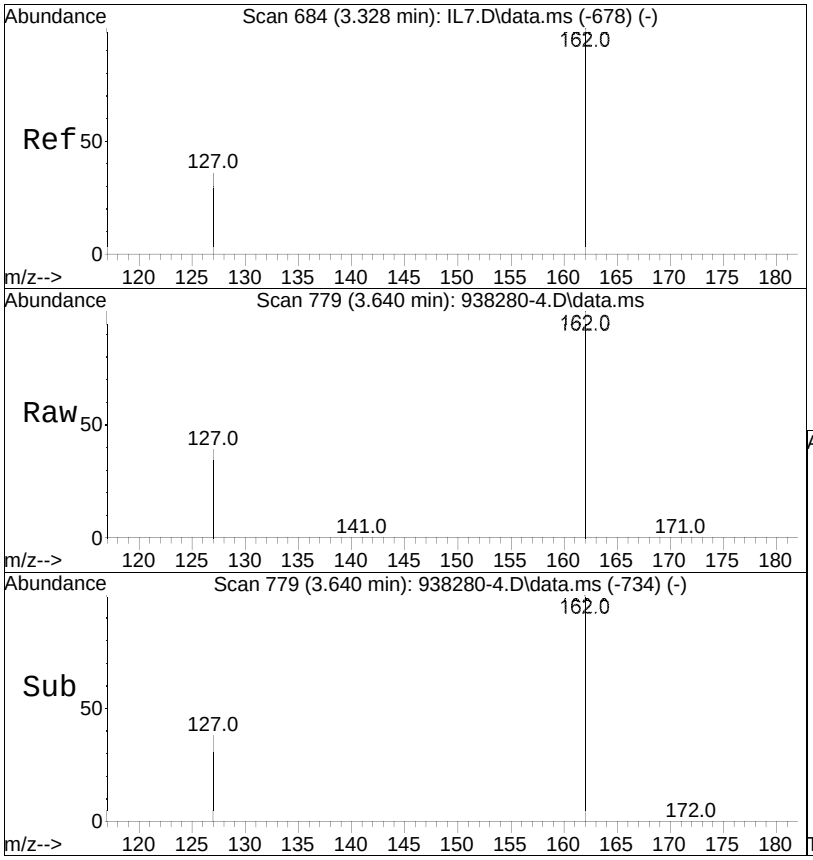


#11
2-Methylnaphthalene
Concen: 3476.30 ng/ml
RT: 3.366 min Scan# 701
Delta R.T. -0.004 min
Lab File: 938280-4.D
Acq: 24 Jun 2024 01:08 pm

Tgt Ion:142 Resp: 8507

Ion	Ratio	Lower	Upper
142	100		
141	92.9	75.9	113.9

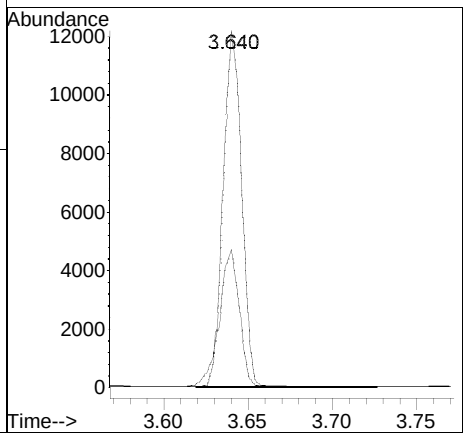


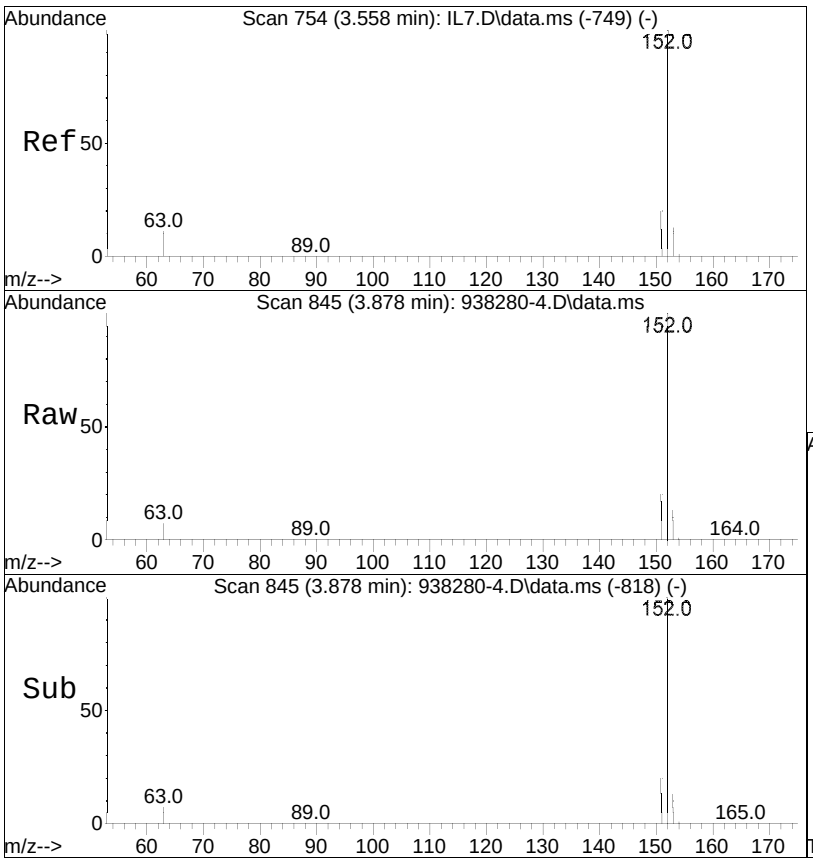


#14
2-Chloronaphthalene
Concen: 3402.65 ng/ml
RT: 3.640 min Scan# 779
Delta R.T. -0.004 min
Lab File: 938280-4.D
Acq: 24 Jun 2024 01:08 pm

Tgt Ion:162 Resp: 9065

Ion	Ratio	Lower	Upper
162	100		
127	42.2	29.3	43.9

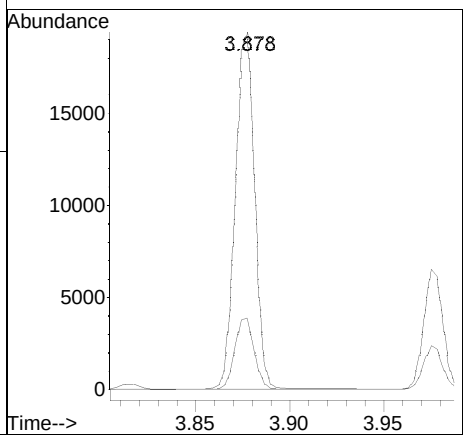


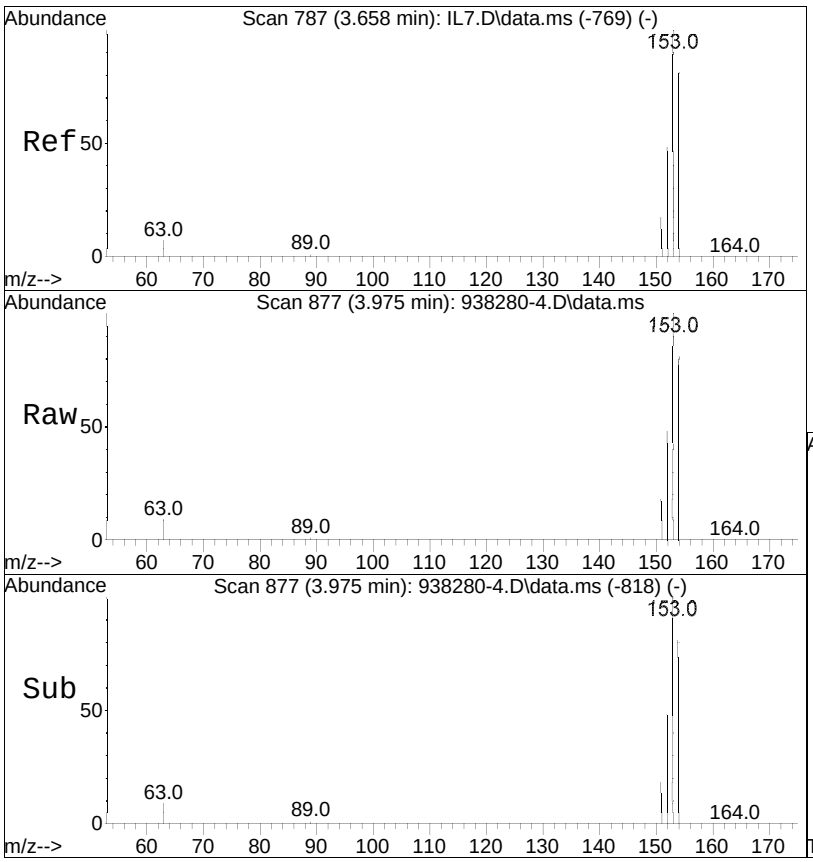


#16
Acenaphthylene
Concen: 3474.49 ng/ml
RT: 3.878 min Scan# 845
Delta R.T. -0.002 min
Lab File: 938280-4.D
Acq: 24 Jun 2024 01:08 pm

Tgt Ion:152 Resp: 13712

Ion	Ratio	Lower	Upper
152	100		
151	20.3	16.4	24.6

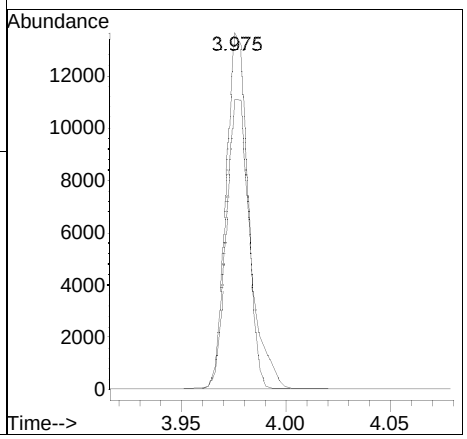


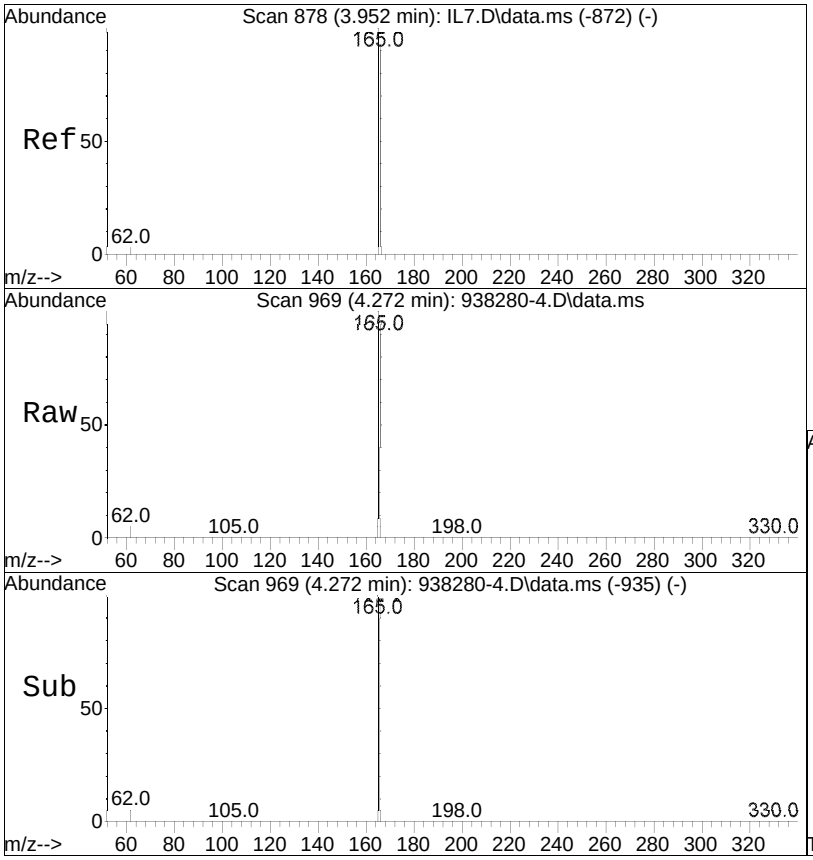


#18
Acenaphthene
Concen: 3603.71 ng/ml
RT: 3.975 min Scan# 877
Delta R.T. -0.005 min
Lab File: 938280-4.D
Acq: 24 Jun 2024 01:08 pm

Tgt Ion:153 Resp: 9597

Ion	Ratio	Lower	Upper
153	100		
154	92.3	65.8	98.6

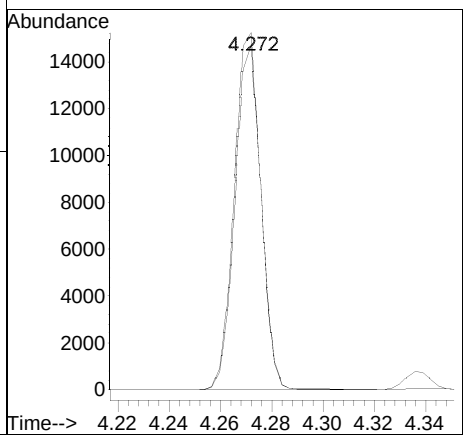


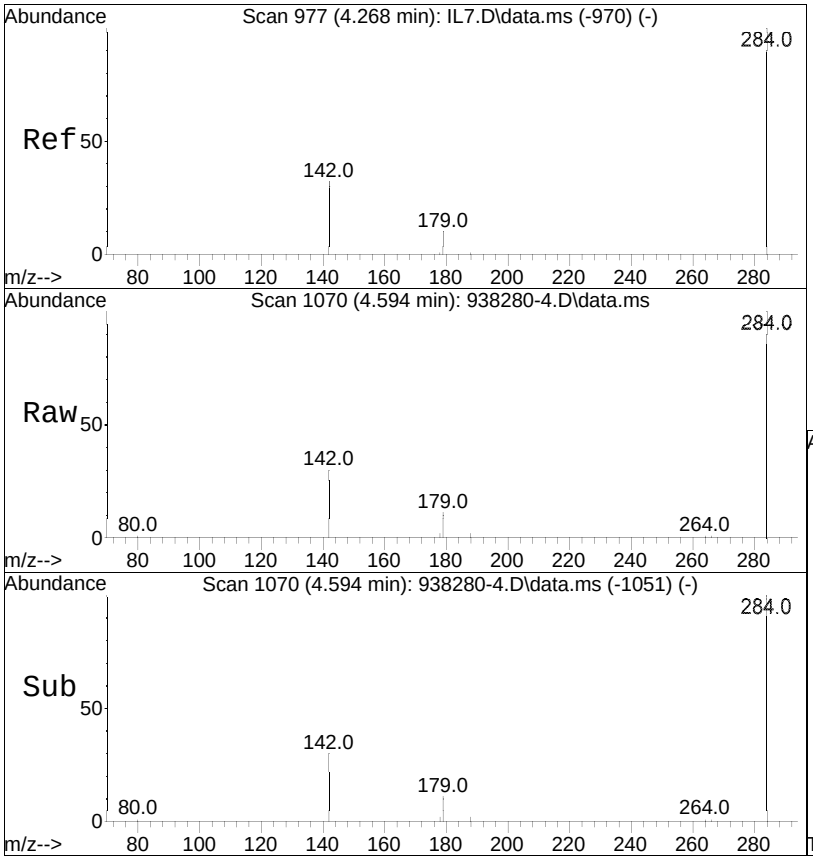


#20
Fluorene
Concen: 3844.55 ng/ml
RT: 4.272 min Scan# 969
Delta R.T. -0.002 min
Lab File: 938280-4.D
Acq: 24 Jun 2024 01:08 pm

Tgt Ion:166 Resp: 10333

Ion	Ratio	Lower	Upper
166	100		
165	105.2	85.7	128.5

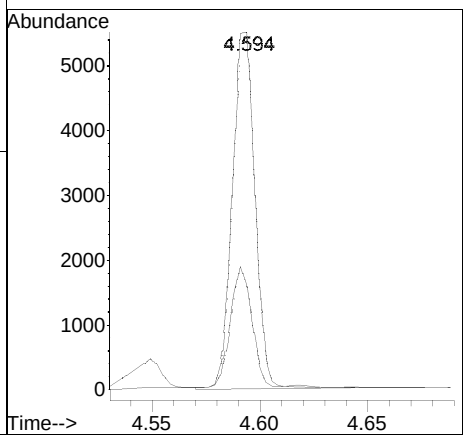


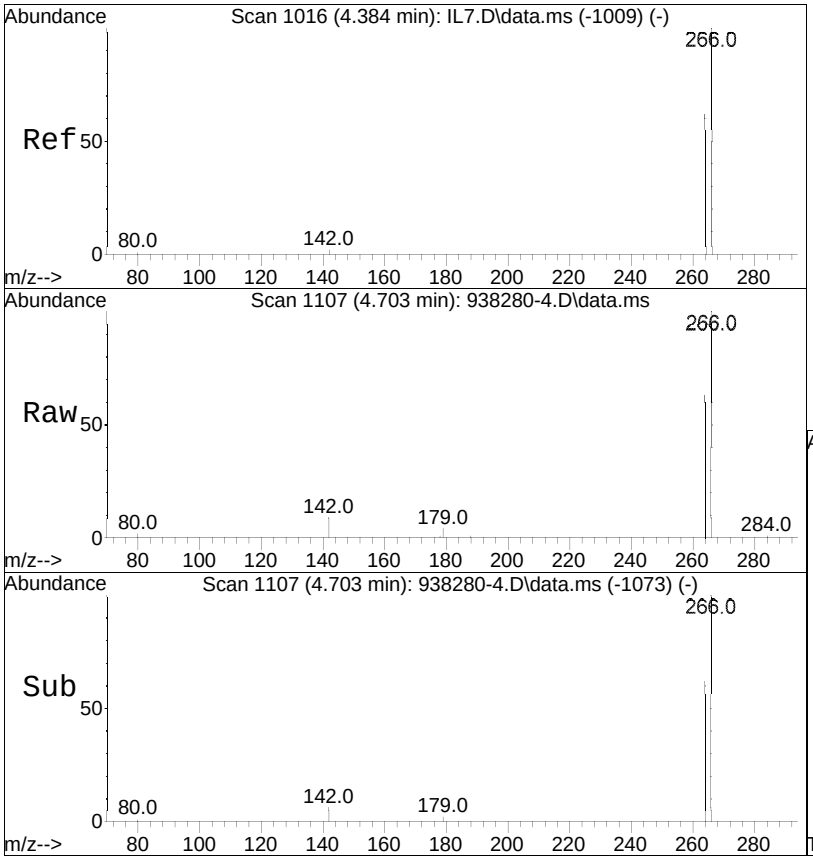


#24
Hexachlorobenzene
Concen: 3489.44 ng/ml
RT: 4.594 min Scan# 1070
Delta R.T. -0.002 min
Lab File: 938280-4.D
Acq: 24 Jun 2024 01:08 pm

Tgt Ion:284 Resp: 3977

Ion	Ratio	Lower	Upper
284	100		
142	32.9	23.9	35.9

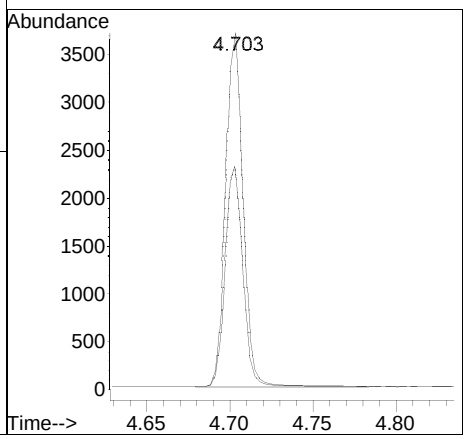


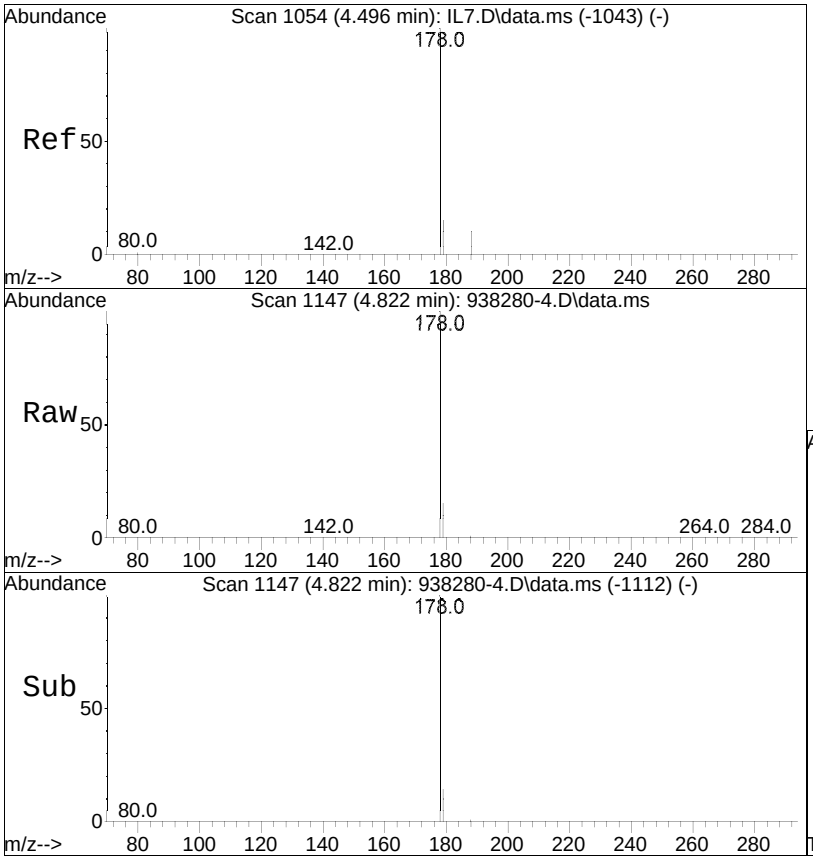


#25
Pentachlorophenol
Concen: 4587.70 ng/ml
RT: 4.703 min Scan# 1107
Delta R.T. -0.002 min
Lab File: 938280-4.D
Acq: 24 Jun 2024 01:08 pm

Tgt Ion:266 Resp: 2728

Ion	Ratio	Lower	Upper
266	100		
264	61.2	49.7	74.5

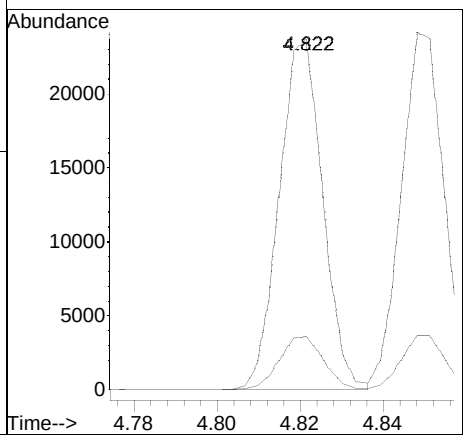


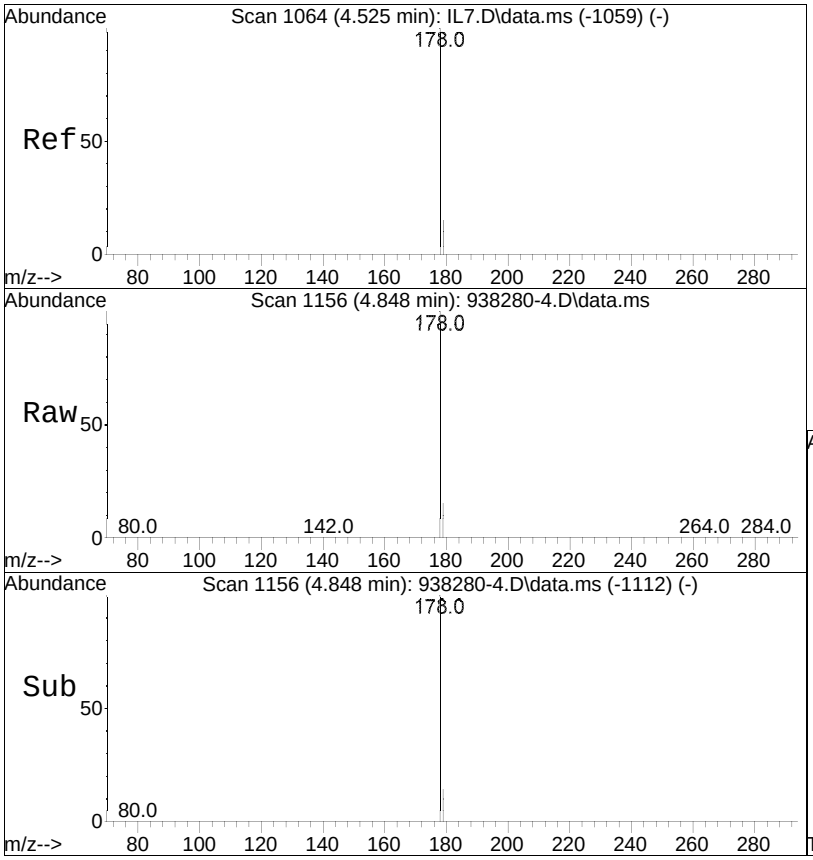


#26
Phenanthrene
Concen: 3692.46 ng/ml
RT: 4.822 min Scan# 1147
Delta R.T. -0.002 min
Lab File: 938280-4.D
Acq: 24 Jun 2024 01:08 pm

Tgt Ion:178 Resp: 17102

Ion	Ratio	Lower	Upper
178	100		
179	15.6	12.2	18.4

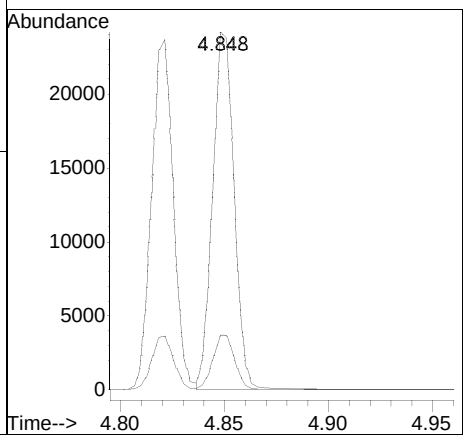


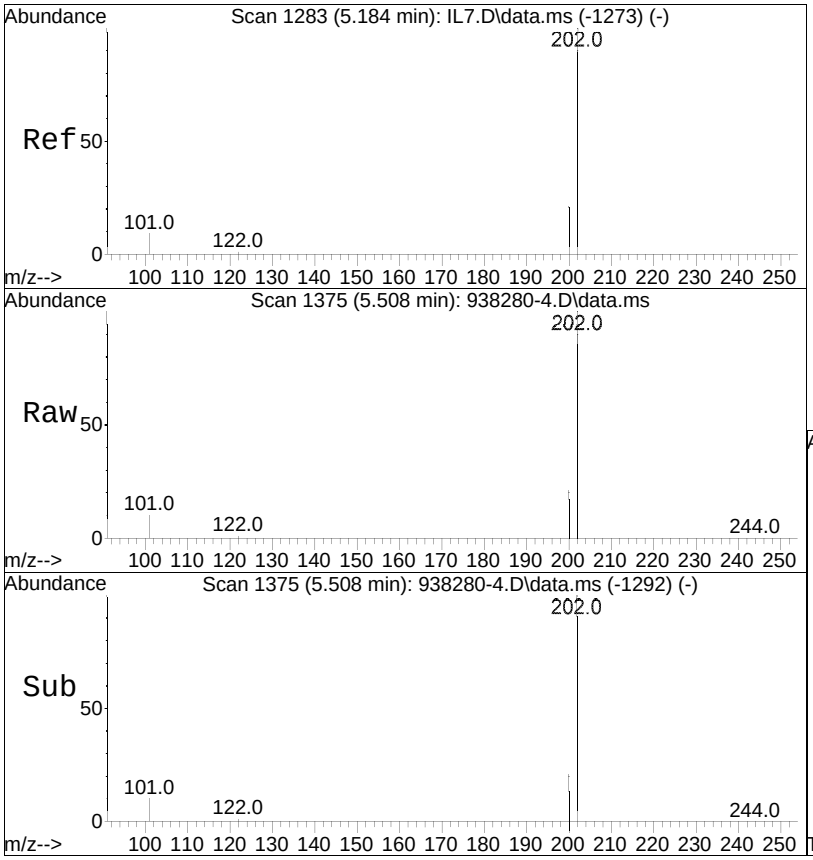


#27
Anthracene
Concen: 3850.67 ng/ml
RT: 4.848 min Scan# 1156
Delta R.T. -0.004 min
Lab File: 938280-4.D
Acq: 24 Jun 2024 01:08 pm

Tgt Ion:178 Resp: 17233

Ion	Ratio	Lower	Upper
178	100		
179	15.3	12.2	18.2

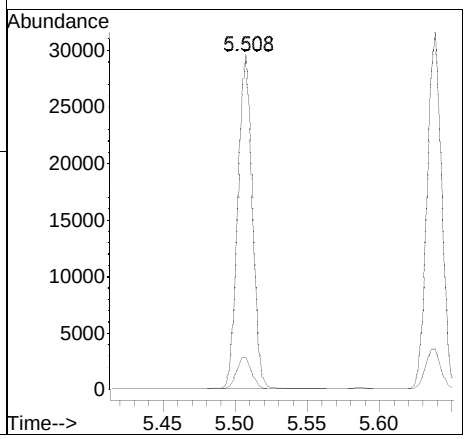


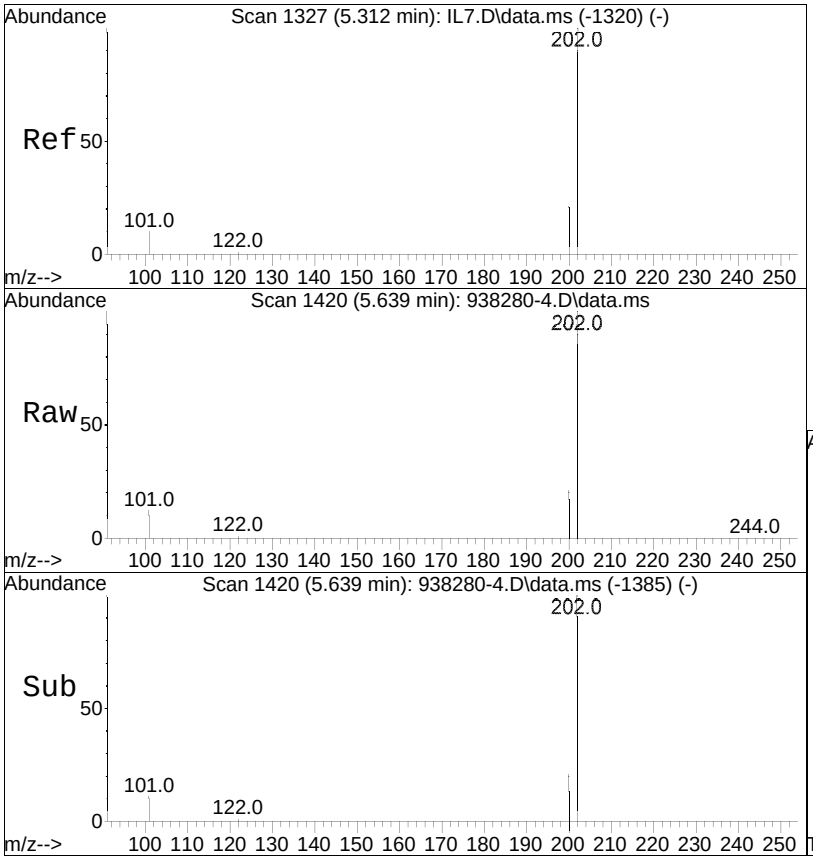


#28
Fluoranthene
Concen: 4100.40 ng/ml
RT: 5.508 min Scan# 1375
Delta R.T. -0.001 min
Lab File: 938280-4.D
Acq: 24 Jun 2024 01:08 pm

Tgt Ion:202 Resp: 20865

Ion	Ratio	Lower	Upper
202	100		
101	9.8	7.2	10.8

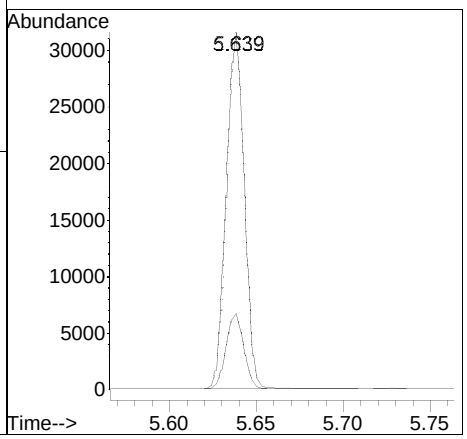


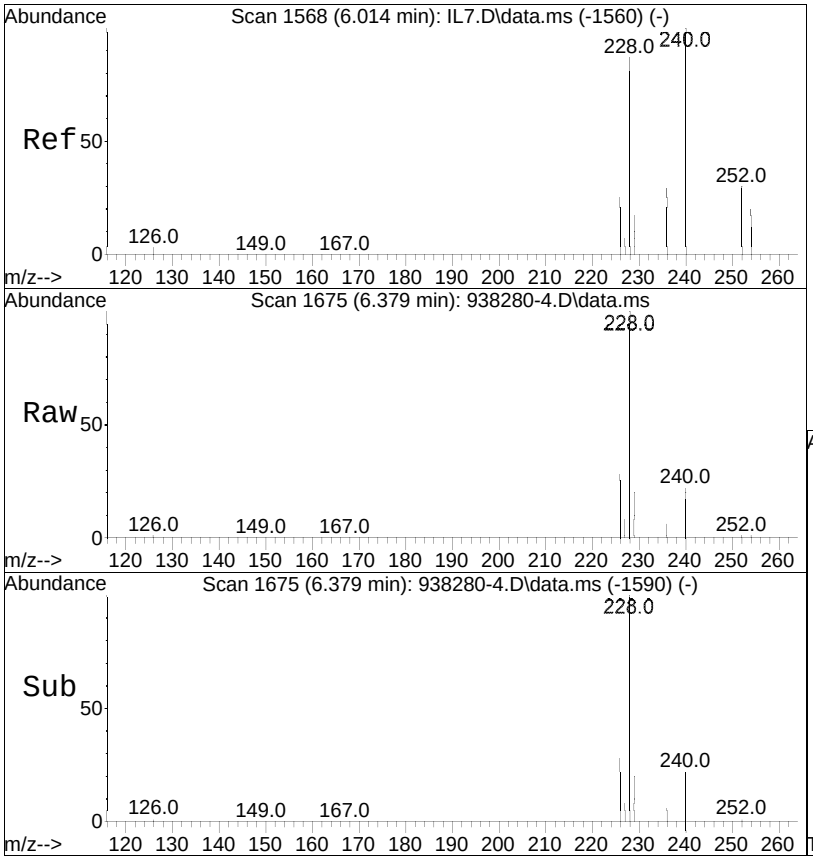


#29
Pyrene
Concen: 4226.02 ng/ml
RT: 5.639 min Scan# 1420
Delta R.T. -0.001 min
Lab File: 938280-4.D
Acq: 24 Jun 2024 01:08 pm

Tgt Ion:202 Resp: 22249

Ion	Ratio	Lower	Upper
202	100		
200	21.2	17.7	26.5

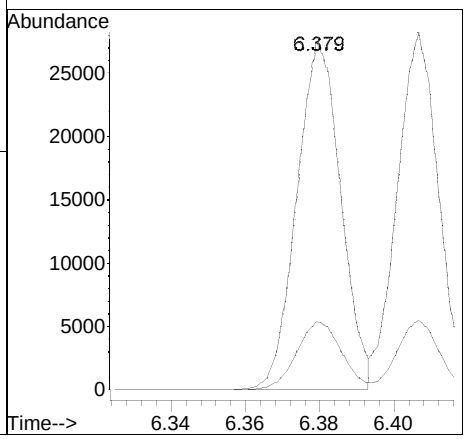


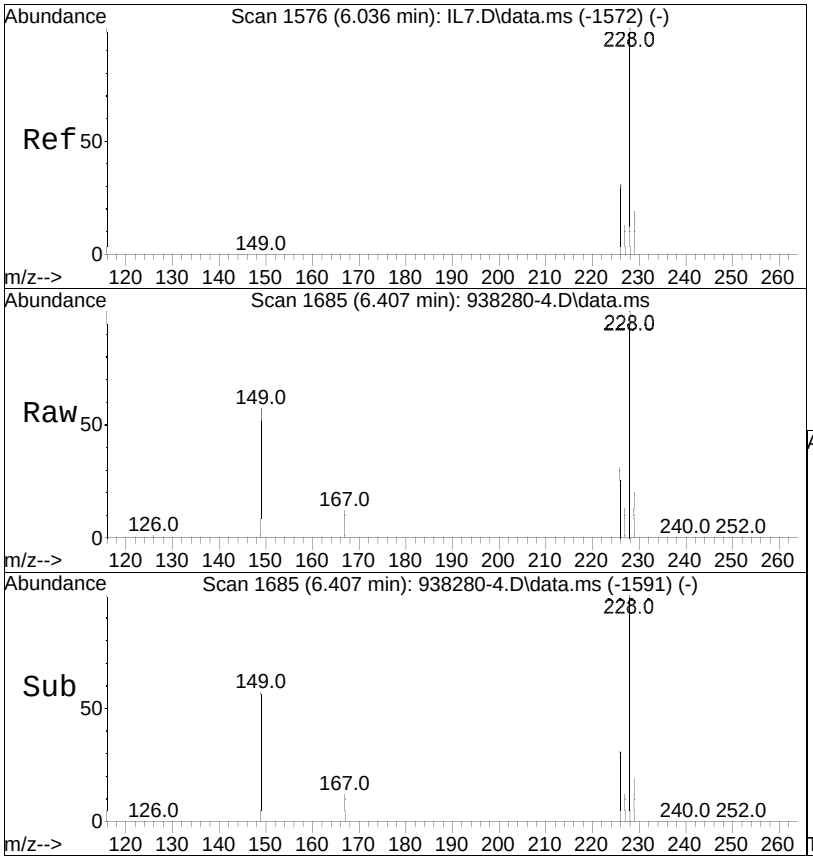


#32
Benzo[a]anthracene
Concen: 3768.95 ng/ml
RT: 6.379 min Scan# 1675
Delta R.T. -0.007 min
Lab File: 938280-4.D
Acq: 24 Jun 2024 01:08 pm

Tgt Ion:228 Resp: 22670

Ion	Ratio	Lower	Upper
228	100		
229	19.6	15.7	23.5

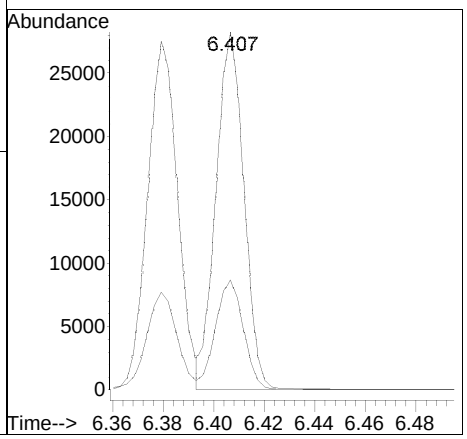


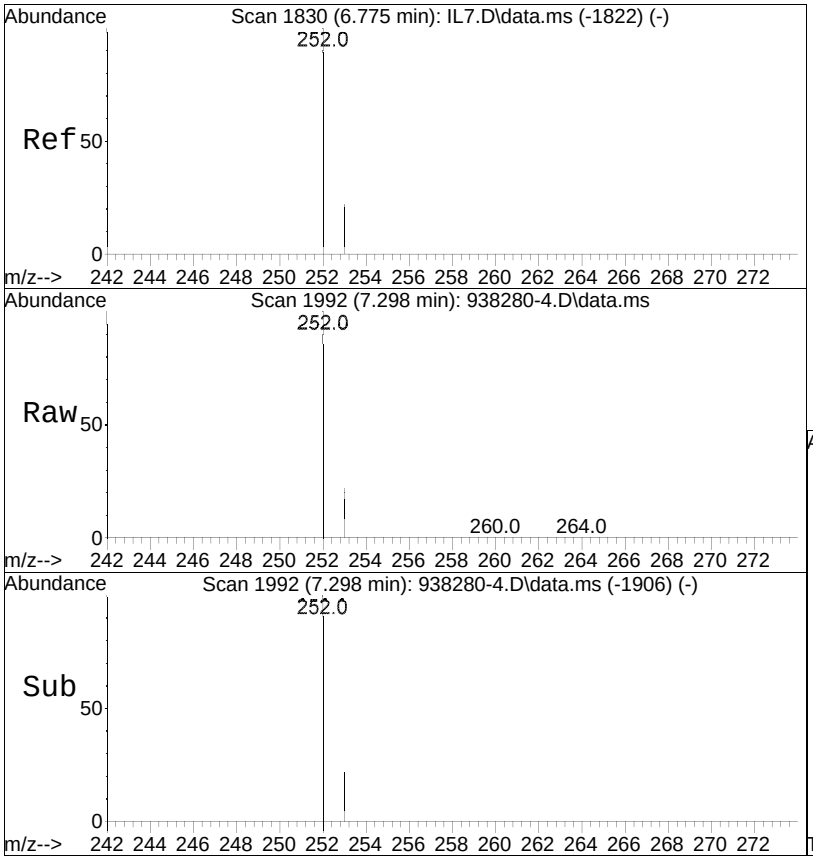


#34
Chrysene
Concen: 3726.72 ng/ml
RT: 6.407 min Scan# 1685
Delta R.T. -0.004 min
Lab File: 938280-4.D
Acq: 24 Jun 2024 01:08 pm

Tgt Ion:228 Resp: 21519

Ion	Ratio	Lower	Upper
228	100		
226	30.7	24.6	36.8

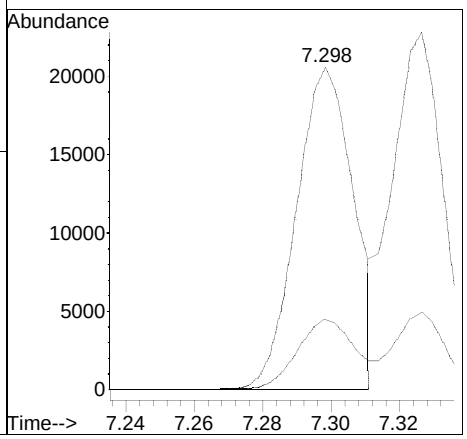


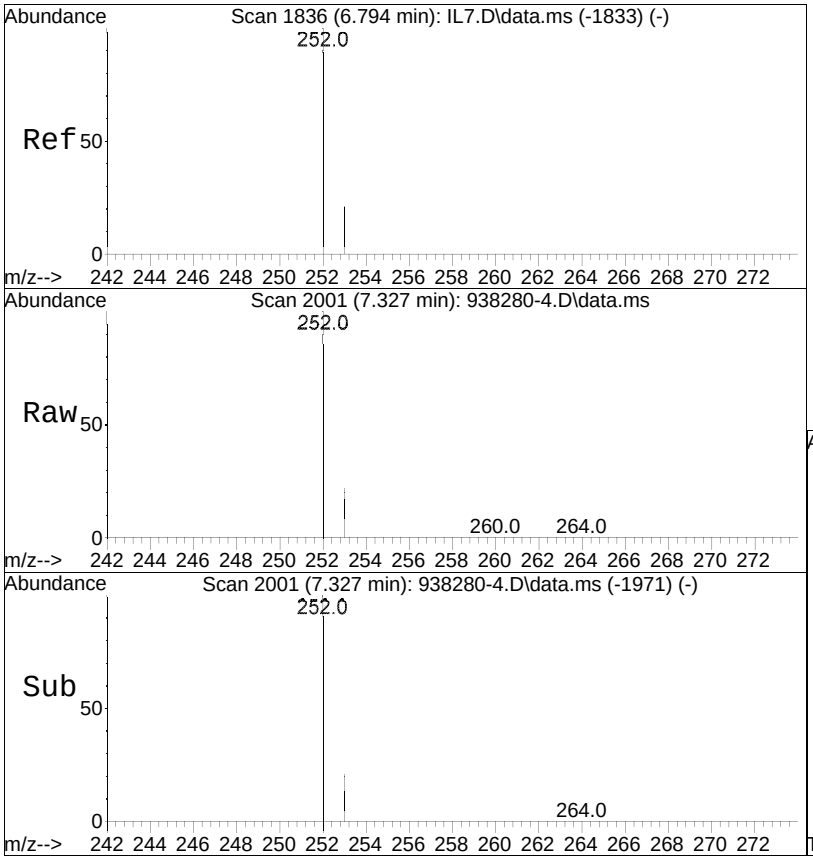


#37
Benzo[b]fluoranthene
Concen: 3879.47 ng/ml
RT: 7.298 min Scan# 1992
Delta R.T. -0.008 min
Lab File: 938280-4.D
Acq: 24 Jun 2024 01:08 pm

Tgt Ion:252 Resp: 23718

Ion	Ratio	Lower	Upper
252	100		
253	23.0	17.1	25.7

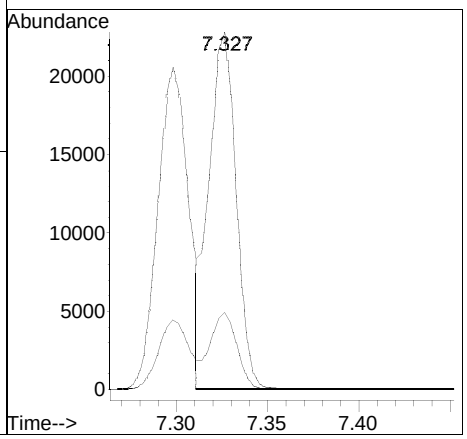


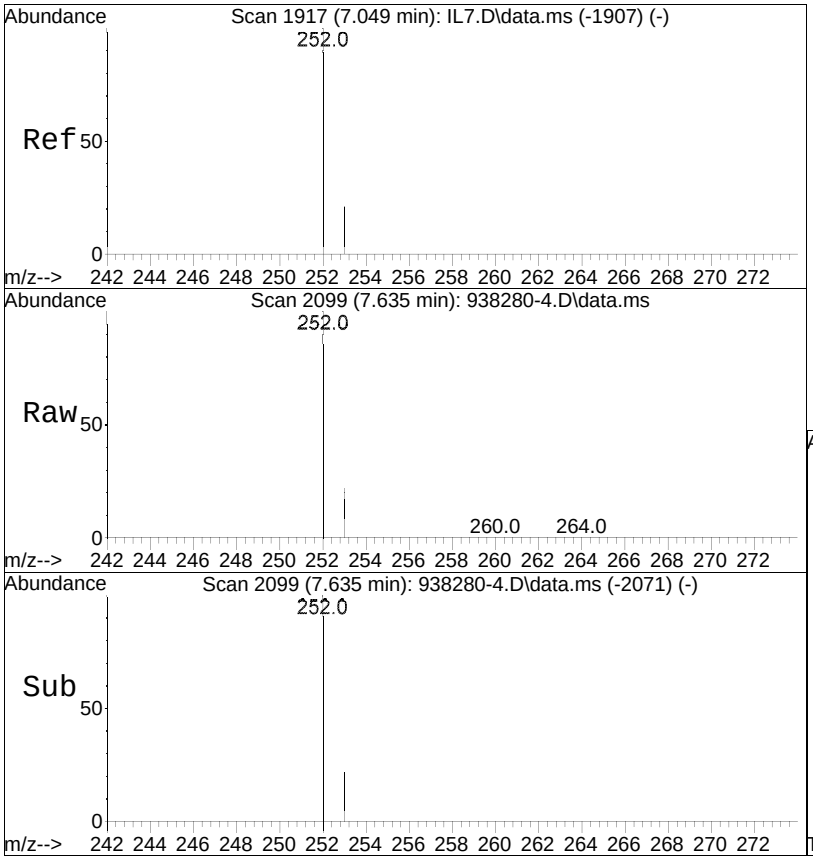


#38
Benzo[k]fluoranthene
Concen: 4143.68 ng/ml
RT: 7.327 min Scan# 2001
Delta R.T. -0.005 min
Lab File: 938280-4.D
Acq: 24 Jun 2024 01:08 pm

Tgt Ion:252 Resp: 23575

Ion	Ratio	Lower	Upper
252	100		
253	20.3	17.3	25.9

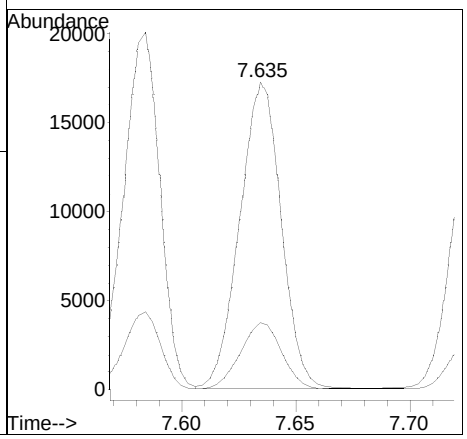


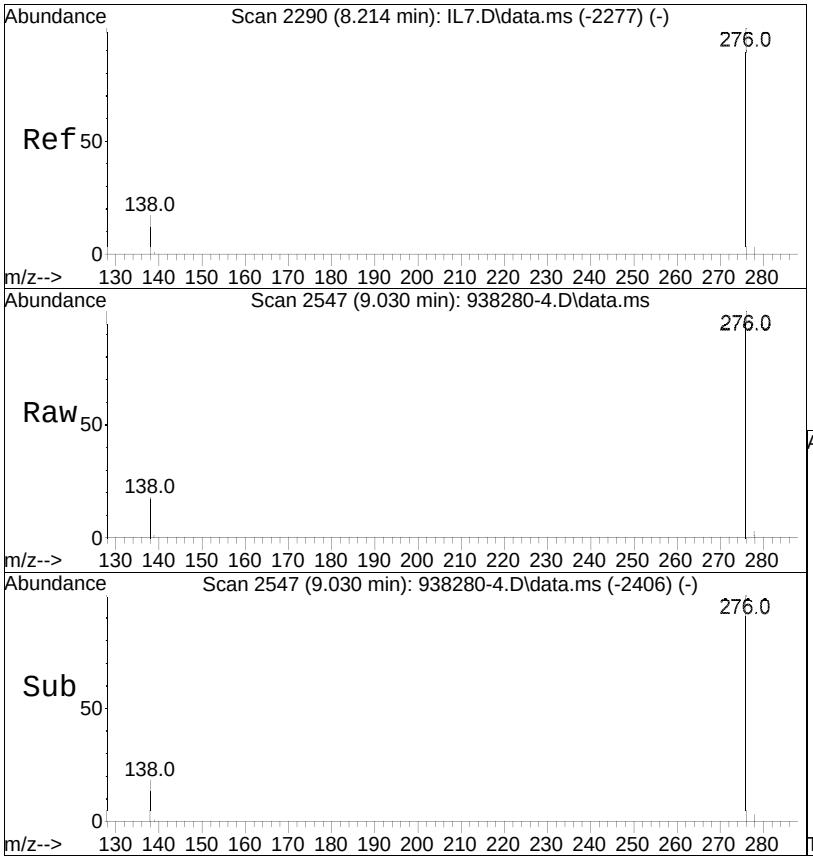


#39
Benzo[a]pyrene
Concen: 4018.46 ng/ml
RT: 7.635 min Scan# 2099
Delta R.T. -0.011 min
Lab File: 938280-4.D
Acq: 24 Jun 2024 01:08 pm

Tgt Ion:252 Resp: 21634

Ion	Ratio	Lower	Upper
252	100		
253	21.7	17.3	25.9

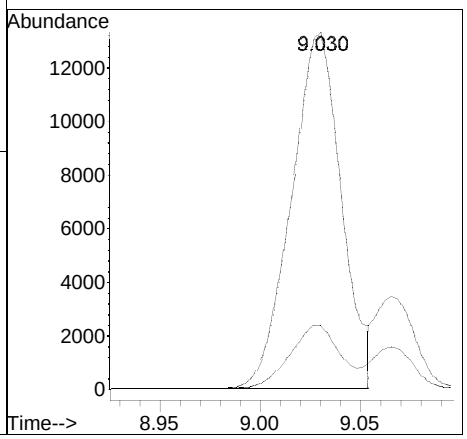


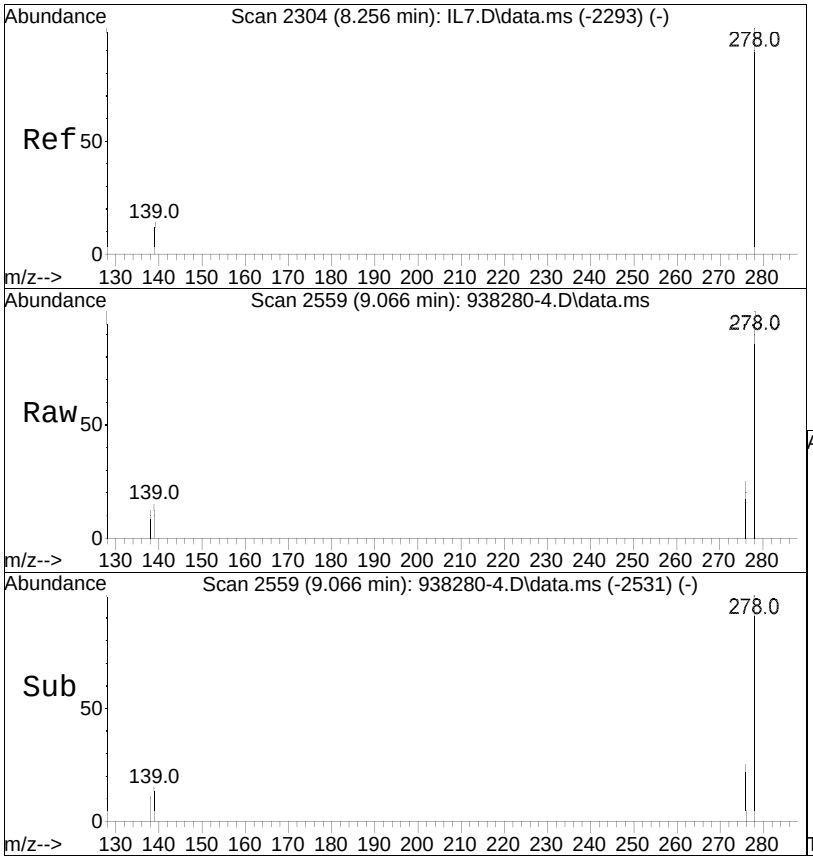


#40
Indeno[1,2,3-cd]pyrene
Concen: 4251.71 ng/ml
RT: 9.030 min Scan# 2547
Delta R.T. -0.010 min
Lab File: 938280-4.D
Acq: 24 Jun 2024 01:08 pm

Tgt Ion:276 Resp: 22888

Ion	Ratio	Lower	Upper
276	100		
138	17.8	13.4	20.2

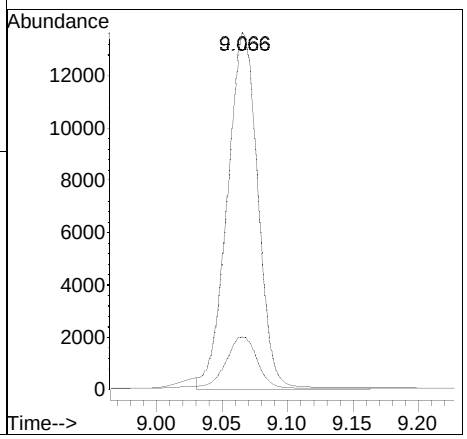


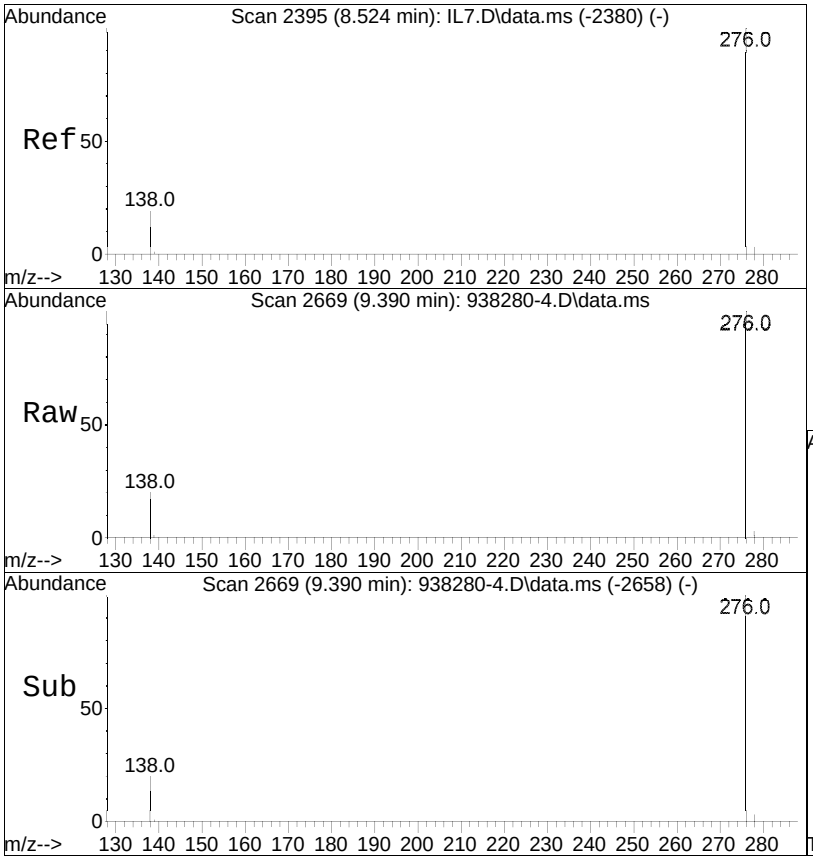


#41
Dibenzo[a,h]anthracene
Concen: 4241.82 ng/ml M6
RT: 9.066 min Scan# 2559
Delta R.T. -0.016 min
Lab File: 938280-4.D
Acq: 24 Jun 2024 01:08 pm

Tgt Ion:278 Resp: 22178

Ion	Ratio	Lower	Upper
278	100		
139	15.0	10.9	16.3

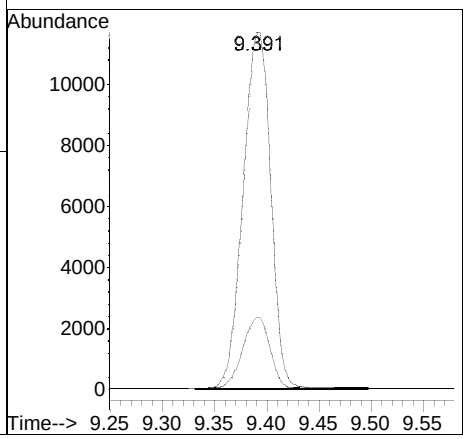




#42
Benzo[g,h,i]perylene
Concen: 3800.77 ng/ml M1
RT: 9.390 min Scan# 2669
Delta R.T. -0.016 min
Lab File: 938280-4.D
Acq: 24 Jun 2024 01:08 pm

Tgt Ion:276 Resp: 21267

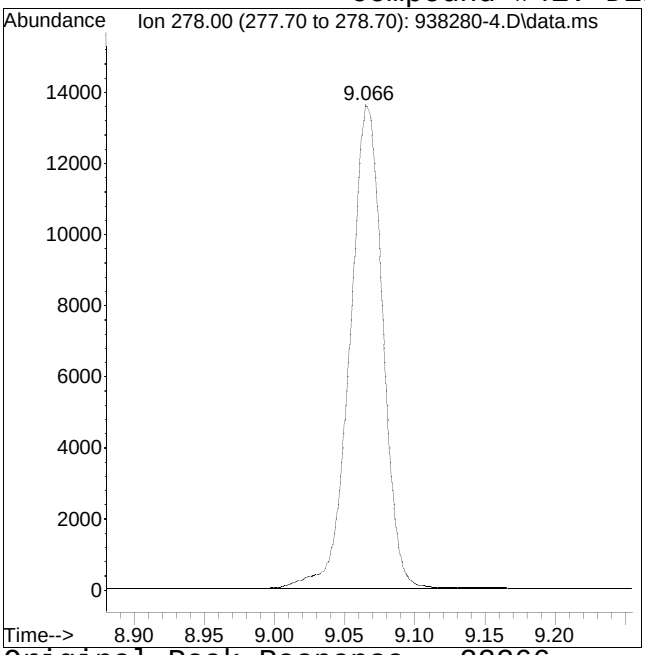
Ion	Ratio	Lower	Upper
276	100		
138	19.5	14.8	22.2



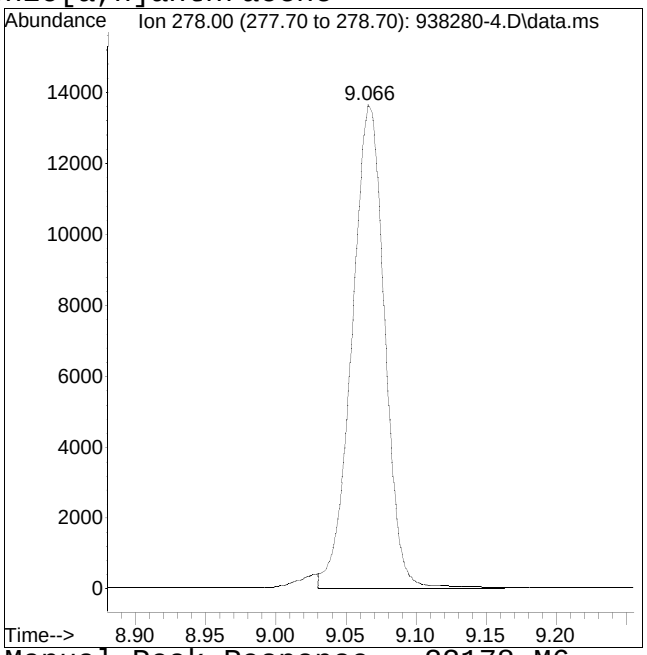
Manual Integration Report

Data Path : I:\8270SIM\SV128\240624\ QMethod : SIM-LVI_231211_sv128.M
Data File : 938280-4.D Operator : SV128:jjw
Date Inj'd : 6/24/2024 1:08 pm Instrument : SV128
Sample : WG1938280-4,32,,jjw Quant Date : 6/24/2024 1:21 pm

Compound #41: Dibenzo[a,h]anthracene



Original Peak Response = 22266



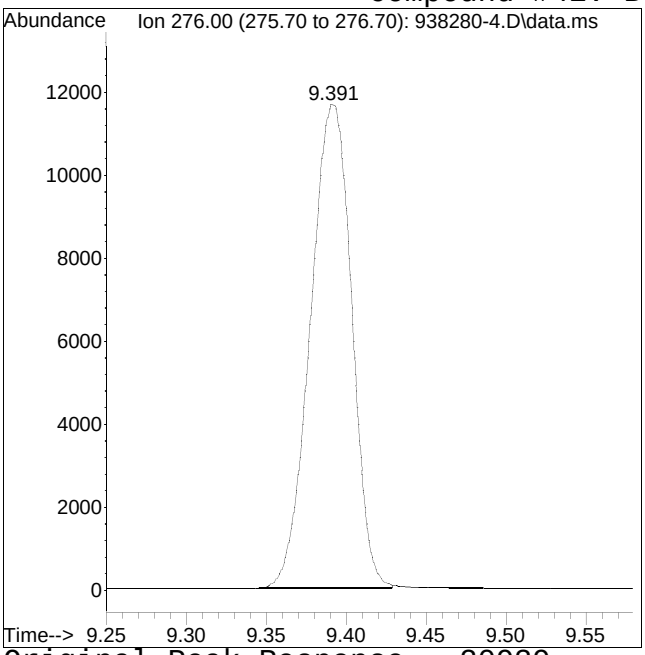
Manual Peak Response = 22178 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

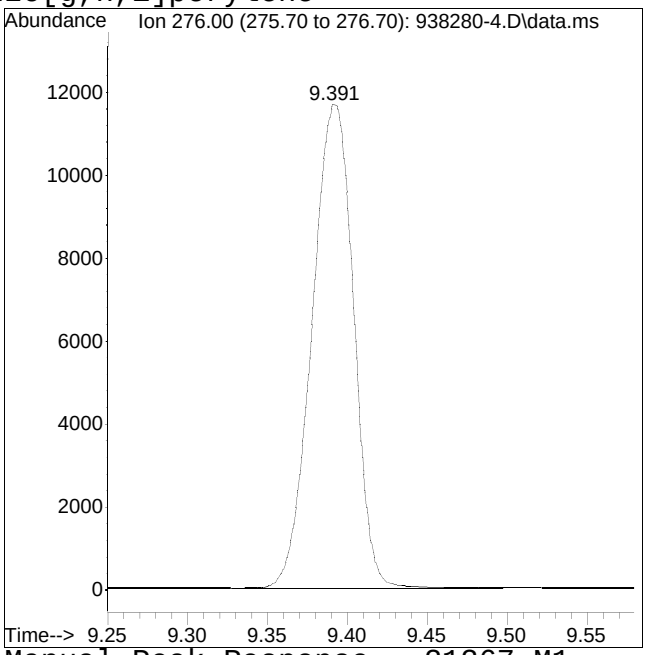
Manual Integration Report

Data Path : I:\8270SIM\SV128\240624\ QMethod : SIM-LVI_231211_sv128.M
Data File : 938280-4.D Operator : SV128:jjw
Date Inj'd : 6/24/2024 1:08 pm Instrument : SV128
Sample : WG1938280-4,32,,jjw Quant Date : 6/24/2024 1:21 pm

Compound #42: Benzo[g,h,i]perylene



Original Peak Response = 20939



Manual Peak Response = 21267 M1

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV128\240624\
Data File : 938280-5.D
Acq On : 24 Jun 2024 01:25 pm
Operator : SV128:jjw
Sample : WG1938280-5,32,,jjw
Misc : WG1938533,WG1938280,ical20676
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 27 14:35:59 2024
Quant Method : I:\8270sim\sv128\240624\SIM-LVI_231211_sv128.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 24 11:39:29 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270sim\sv128\240624\ccv0624.D
Sub List : DEFAULT - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.303	152	4047	4000.000	ng/ml	0.00
Standard Area 1 = 4069			Recovery = 99.46%			
8) Naphthalene-d8	2.972	136	15127	4000.000	ng/ml	0.00
Standard Area 1 = 14375			Recovery = 105.23%			
17) Acenaphthene-d10	3.959	164	8025	4000.000	ng/ml	0.00
Standard Area 1 = 8180			Recovery = 98.11%			
22) Phenanthrene-d10	4.808	188	17143	4000.000	ng/ml	0.00
Standard Area 1 = 17962			Recovery = 95.44%			
31) Chrysene-d12	6.387	240	16234	4000.000	ng/ml	0.00
Standard Area 1 = 16460			Recovery = 98.63%			
36) Perylene-d12	7.699	264	19593	4000.000	ng/ml	-0.02
Standard Area 1 = 18271			Recovery = 107.24%			
System Monitoring Compounds						
2) 2-Fluorophenol	1.695	112	3263	3201.840	ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 64.04%			
3) Phenol-d6	2.106	99	3523	2958.000	ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 59.16%			
7) Nitrobenzene-d5	2.584	82	2085	2166.223	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 86.65%			
13) 2-Fluorobiphenyl	3.575	172	4887	1523.380	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 60.94%			
21) 2,4,6-Tribromophenol	4.408	330	1473	3673.118	ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 73.46%			
30) 4-Terphenyl-d14	5.727	244	5898	1651.404	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 66.06%			
Target Compounds						Qvalue
6) Hexachloroethane	2.566	117	1578	3264.880	ng/ml	94
9) Naphthalene	2.985	128	11927	3074.601	ng/ml#	98
10) Hexachlorobutadiene	3.058	225	2425	2729.002	ng/ml	99
11) 2-Methylnaphthalene	3.367	142	7723	3116.495	ng/ml	98
14) 2-Chloronaphthalene	3.641	162	8232	3051.371	ng/ml	92
16) Acenaphthylene	3.876	152	12246	3064.250	ng/ml	99
18) Acenaphthene	3.977	153	8461	3118.938	ng/ml	87
20) Fluorene	4.270	166	9018	3293.824	ng/ml	98
24) Hexachlorobenzene	4.593	284	3429	3005.992	ng/ml	94
25) Pentachlorophenol	4.702	266	2269	3949.643	ng/ml	98

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV128\240624\
Data File : 938280-5.D
Acq On : 24 Jun 2024 01:25 pm
Operator : SV128:jjw
Sample : WG1938280-5,32,,jjw
Misc : WG1938533,WG1938280,ical20676
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 27 14:35:59 2024
Quant Method : I:\8270sim\sv128\240624\SIM-LVI_231211_sv128.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 24 11:39:29 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270sim\sv128\240624\ccv0624.D
Sub List : DEFAULT - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
26) Phenanthrene	4.820	178	14565	3141.948	ng/ml	100
27) Anthracene	4.850	178	14936	3334.492	ng/ml	100
28) Fluoranthene	5.506	202	17776M6	3490.294	ng/ml	
29) Pyrene	5.637	202	18759	3560.002	ng/ml	98
32) Benzo[a]anthracene	6.381	228	18683	3203.657	ng/ml	100
34) Chrysene	6.406	228	17894	3197.245	ng/ml	99
37) Benzo[b]fluoranthene	7.297	252	19249	3172.439	ng/ml	100
38) Benzo[k]fluoranthene	7.325	252	19701	3489.096	ng/ml	99
39) Benzo[a]pyrene	7.636	252	18019	3372.435	ng/ml	100
40) Indeno[1,2,3-cd]pyrene	9.026	276	19517	3653.077	ng/ml	96
41) Dibenzo[a,h]anthracene	9.064	278	19188M6	3697.852	ng/ml	
42) Benzo[g,h,i]perylene	9.389	276	18931M1	3409.021	ng/ml	

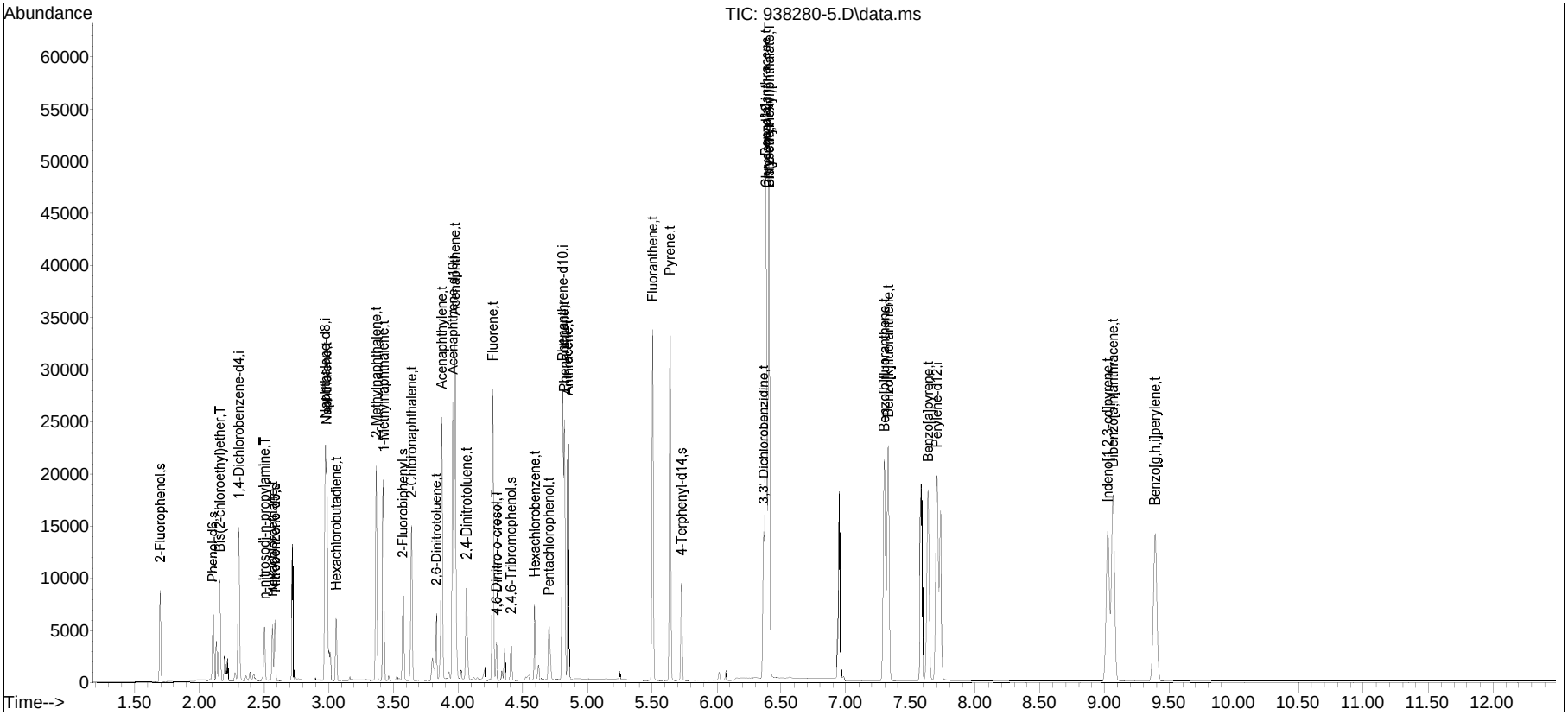
(#) = qualifier out of range (m) = manual integration (+) = signals summed

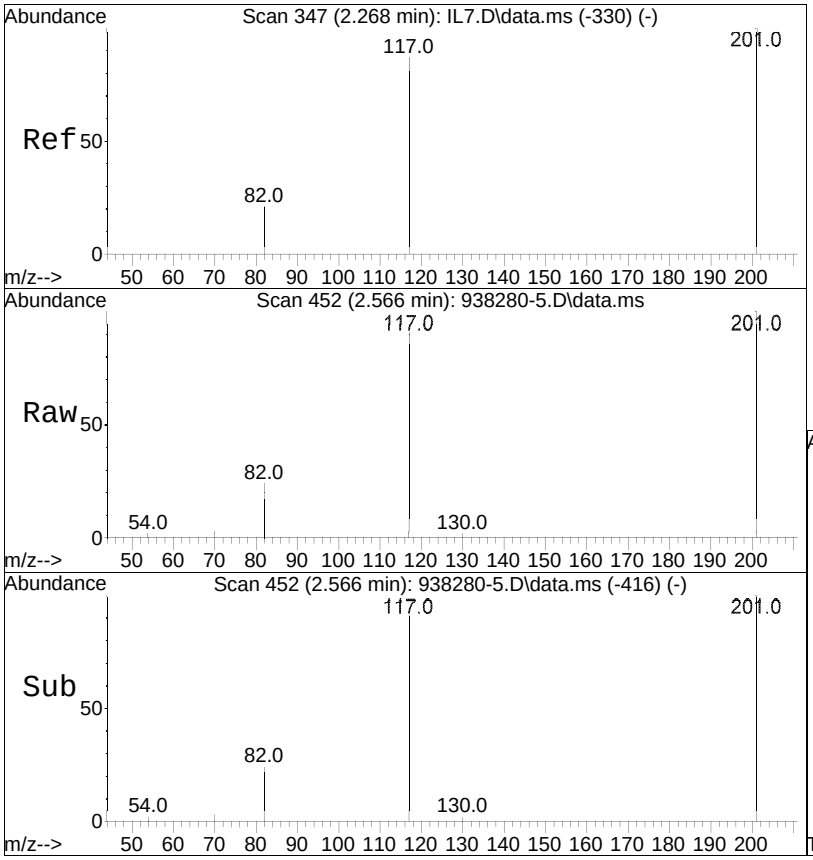
Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV128\240624\
Data File : 938280-5.D
Acq On : 24 Jun 2024 01:25 pm
Operator : SV128:jjw
Sample : WG1938280-5,32,,jjw
Misc : WG1938533,WG1938280,ical20676
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 27 14:35:59 2024
Quant Method : I:\8270sim\sv128\240624\SIM-LVI_231211_sv128.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 24 11:39:29 2024
Response via : Initial Calibration

Sub List : DEFAULT - All compounds listedv0624.D•

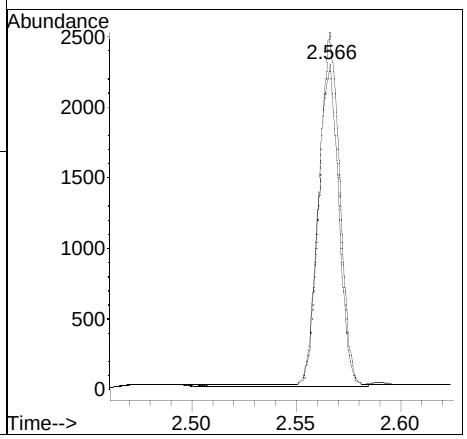


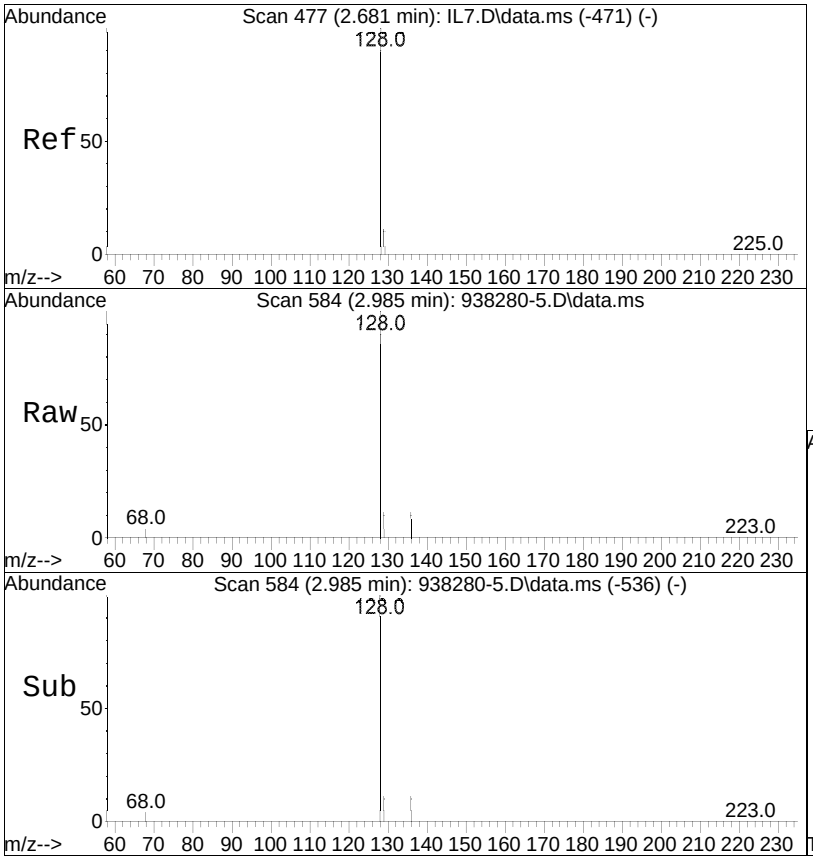


#6
Hexachloroethane
Concen: 3264.88 ng/ml
RT: 2.566 min Scan# 452
Delta R.T. -0.002 min
Lab File: 938280-5.D
Acq: 24 Jun 2024 01:25 pm

Tgt Ion:117 Resp: 1578

Ion	Ratio	Lower	Upper
117	100		
201	108.5	91.8	137.6

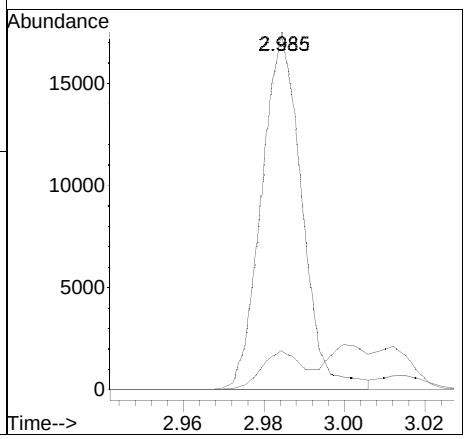


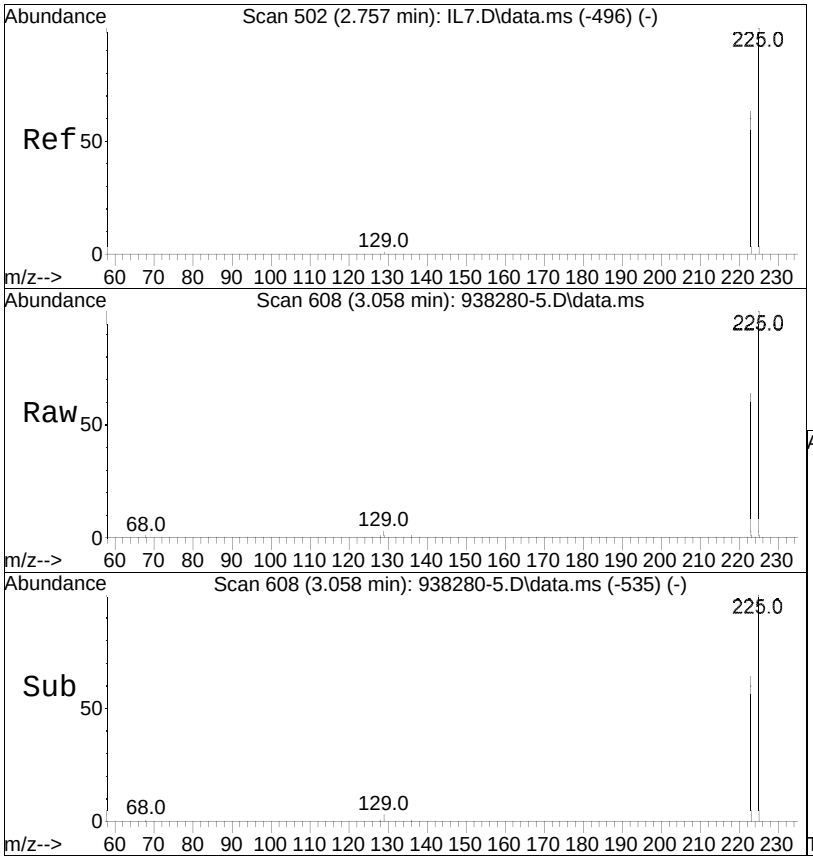


#9
Naphthalene
Concen: 3074.60 ng/ml
RT: 2.985 min Scan# 584
Delta R.T. -0.002 min
Lab File: 938280-5.D
Acq: 24 Jun 2024 01:25 pm

Tgt Ion:128 Resp: 11927

Ion	Ratio	Lower	Upper
128	100		
129	10.4	8.8	13.2
127	0.0	0.0	0.0

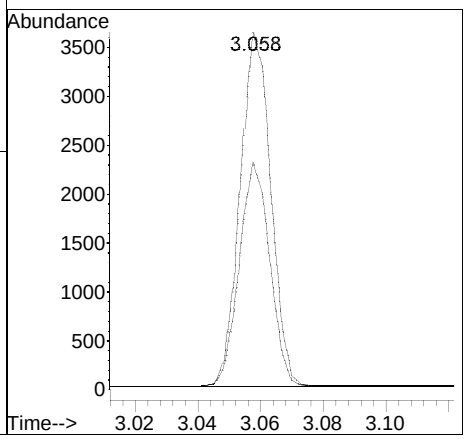


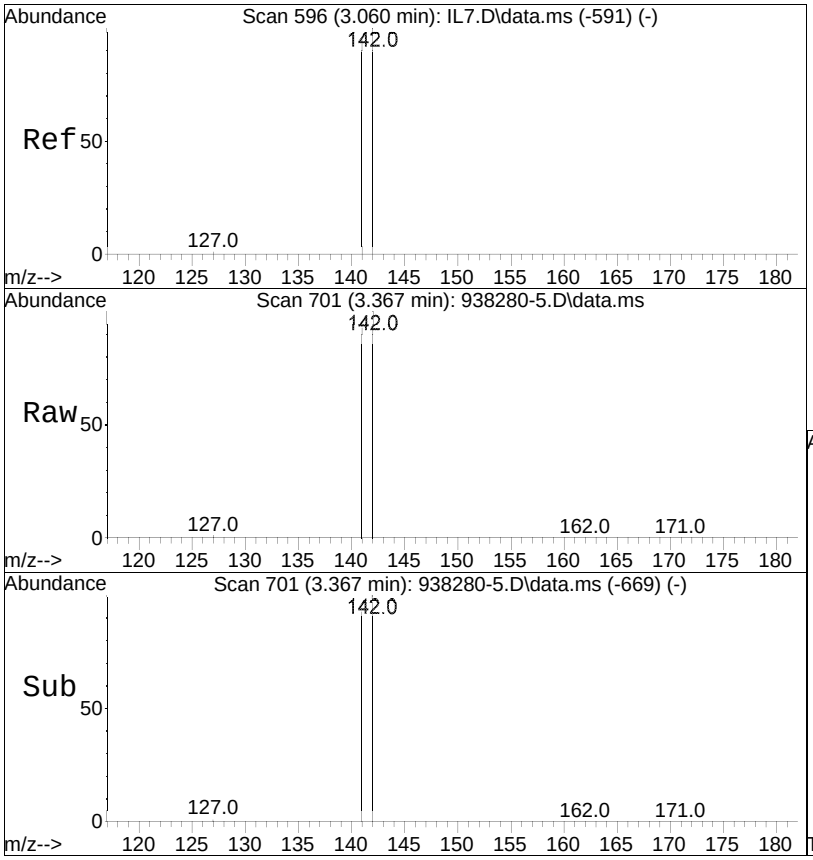


#10
Hexachlorobutadiene
Concen: 2729.00 ng/ml
RT: 3.058 min Scan# 608
Delta R.T. -0.005 min
Lab File: 938280-5.D
Acq: 24 Jun 2024 01:25 pm

Tgt Ion:225 Resp: 2425

Ion	Ratio	Lower	Upper
225	100		
223	62.9	49.9	74.9

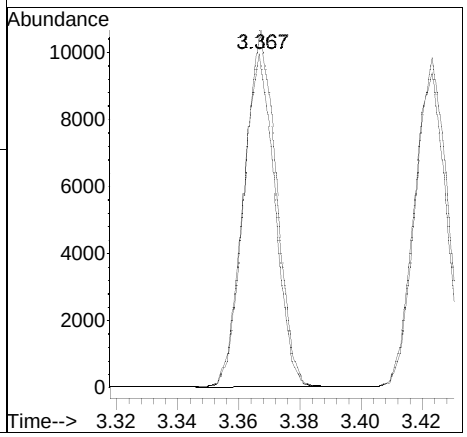


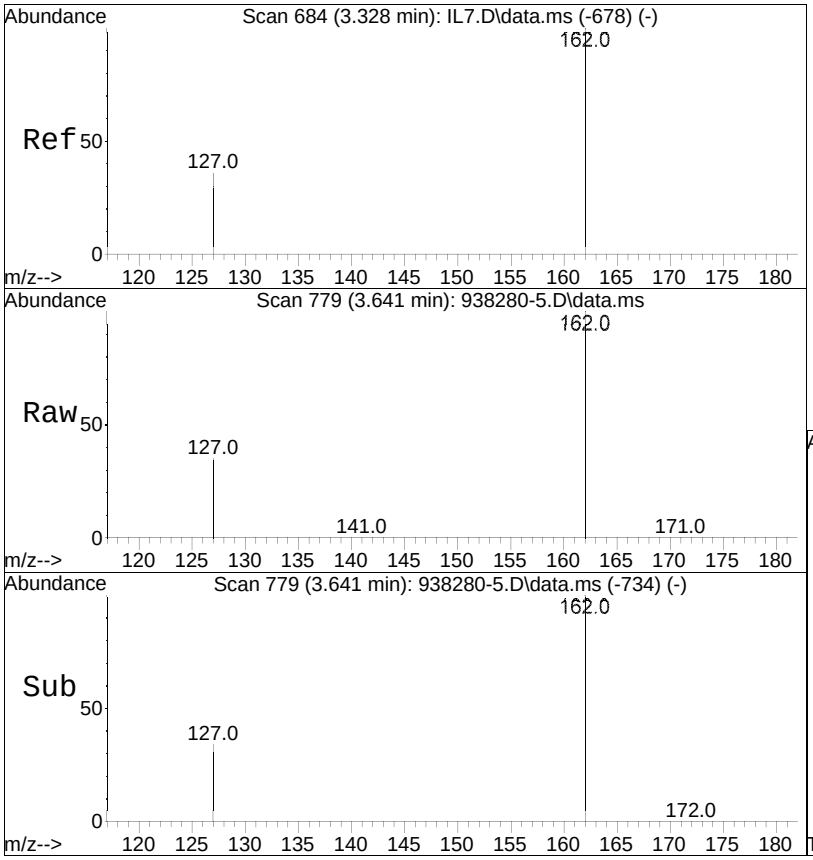


#11
2-Methylnaphthalene
Concen: 3116.50 ng/ml
RT: 3.367 min Scan# 701
Delta R.T. -0.003 min
Lab File: 938280-5.D
Acq: 24 Jun 2024 01:25 pm

Tgt Ion:142 Resp: 7723

Ion	Ratio	Lower	Upper
142	100		
141	92.9	75.9	113.9

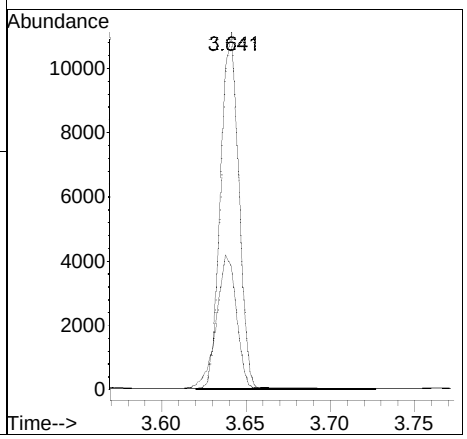


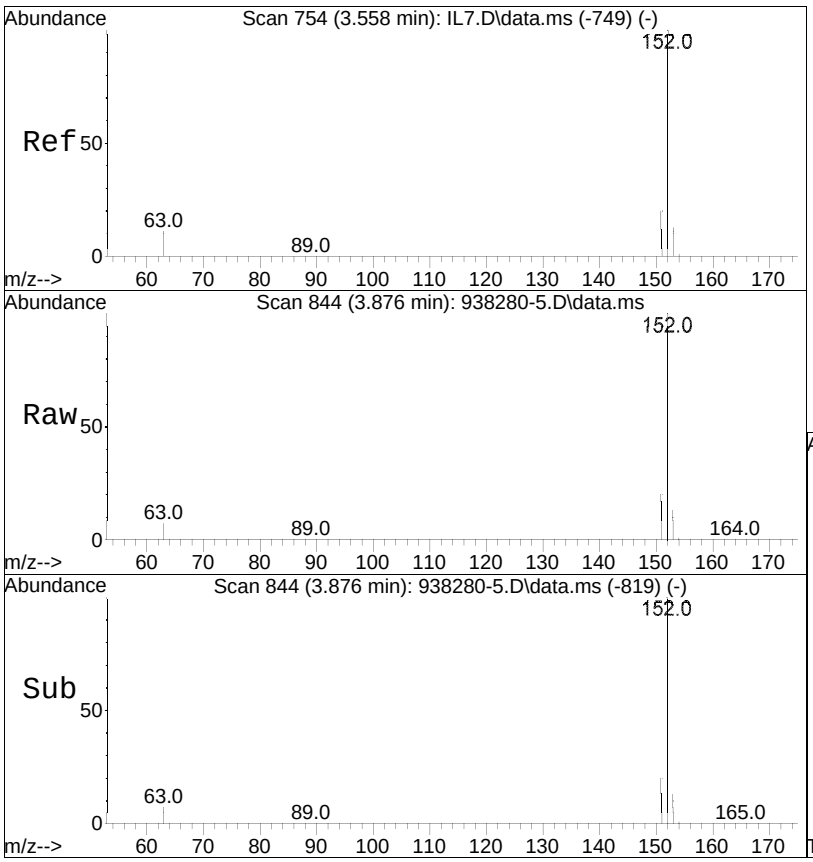


#14
2-Chloronaphthalene
Concen: 3051.37 ng/ml
RT: 3.641 min Scan# 779
Delta R.T. -0.003 min
Lab File: 938280-5.D
Acq: 24 Jun 2024 01:25 pm

Tgt Ion:162 Resp: 8232

Ion	Ratio	Lower	Upper
162	100		
127	41.1	29.3	43.9

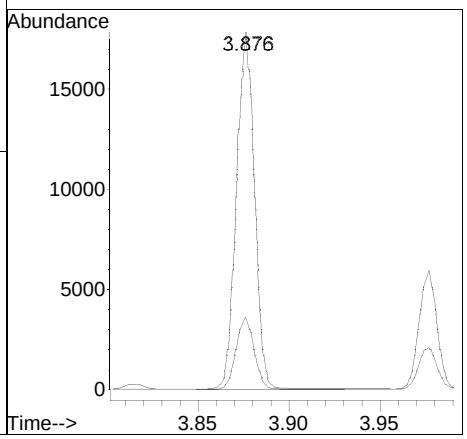


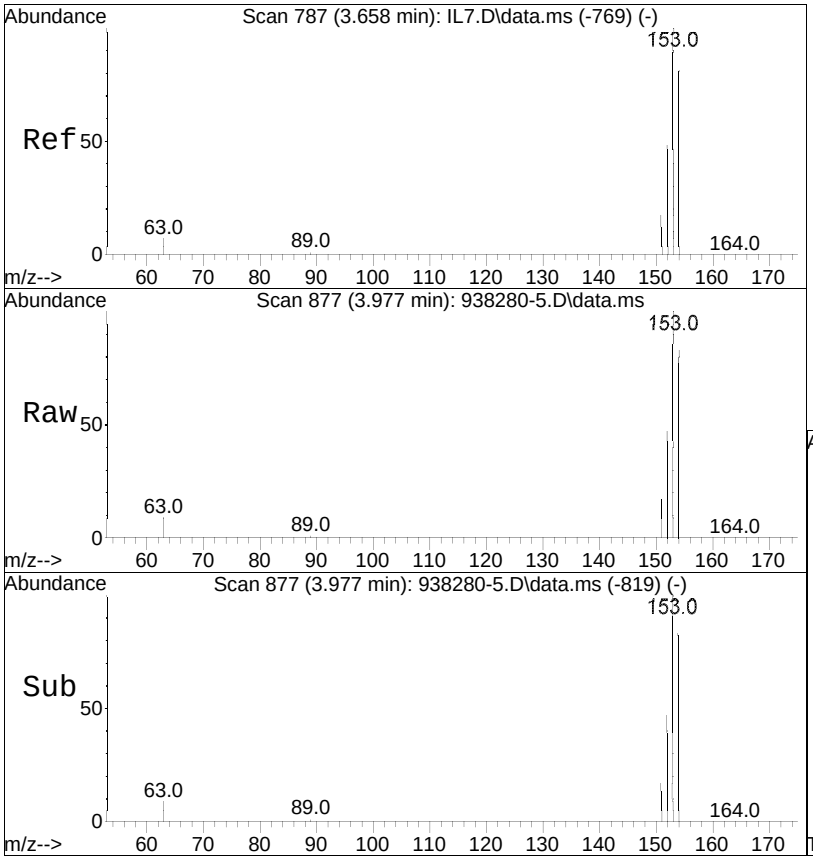


#16
Acenaphthylene
Concen: 3064.25 ng/ml
RT: 3.876 min Scan# 844
Delta R.T. -0.003 min
Lab File: 938280-5.D
Acq: 24 Jun 2024 01:25 pm

Tgt Ion:152 Resp: 12246

Ion	Ratio	Lower	Upper
152	100		
151	19.9	16.4	24.6

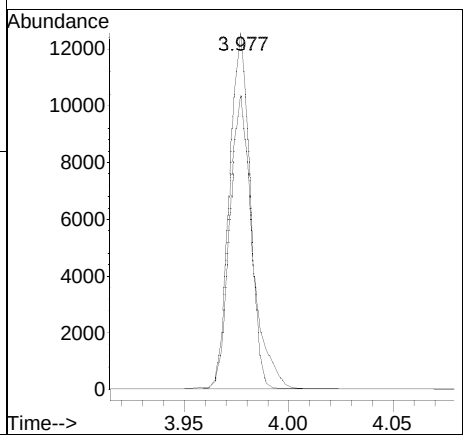


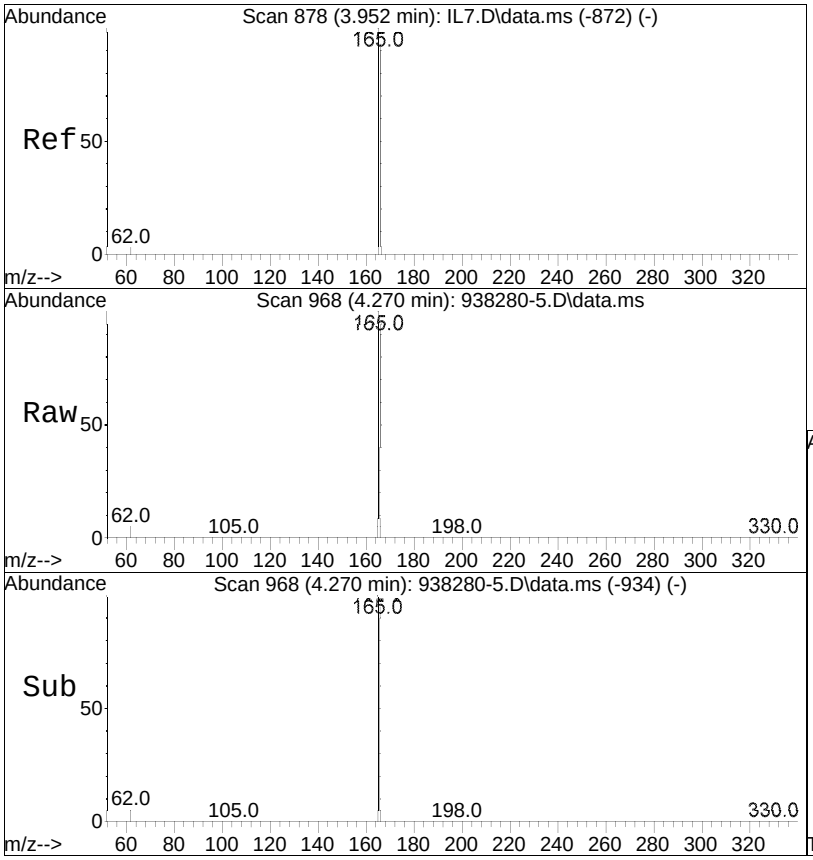


#18
Acenaphthene
Concen: 3118.94 ng/ml
RT: 3.977 min Scan# 877
Delta R.T. -0.003 min
Lab File: 938280-5.D
Acq: 24 Jun 2024 01:25 pm

Tgt Ion:153 Resp: 8461

Ion	Ratio	Lower	Upper
153	100		
154	93.4	65.8	98.6

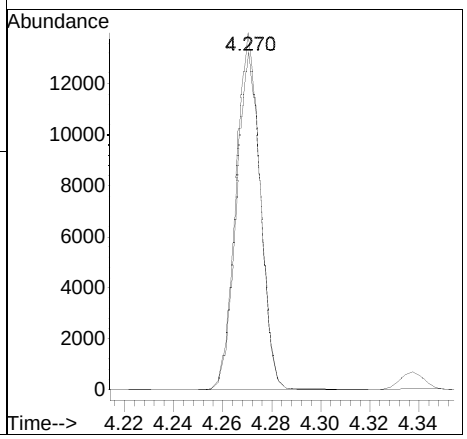


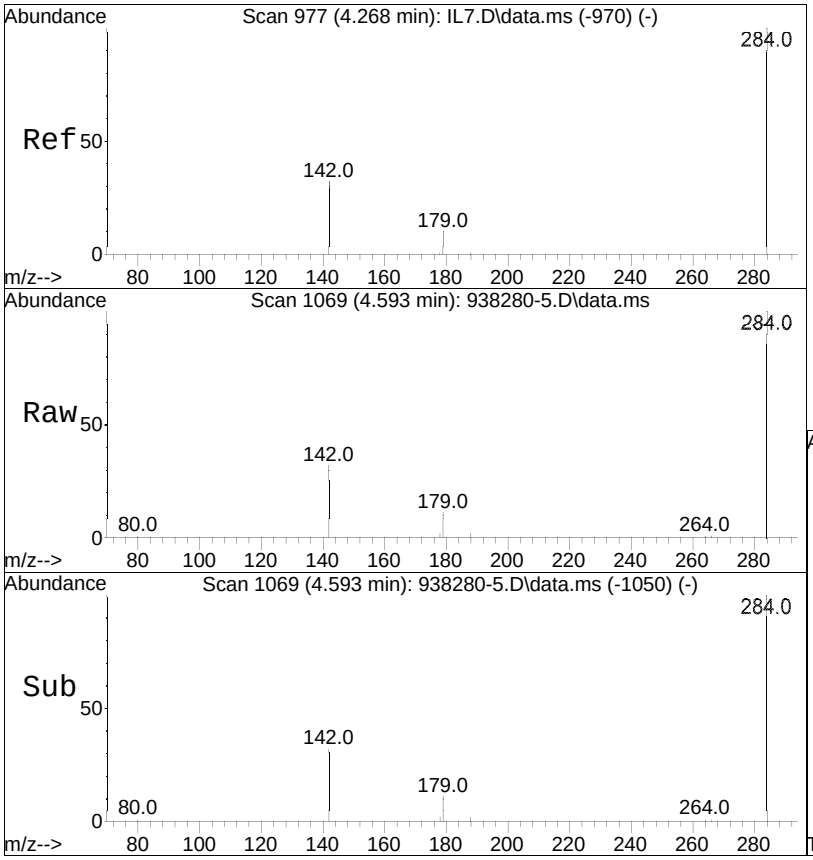


#20
Fluorene
Concen: 3293.82 ng/ml
RT: 4.270 min Scan# 968
Delta R.T. -0.003 min
Lab File: 938280-5.D
Acq: 24 Jun 2024 01:25 pm

Tgt Ion:166 Resp: 9018

Ion	Ratio	Lower	Upper
166	100		
165	105.5	85.7	128.5

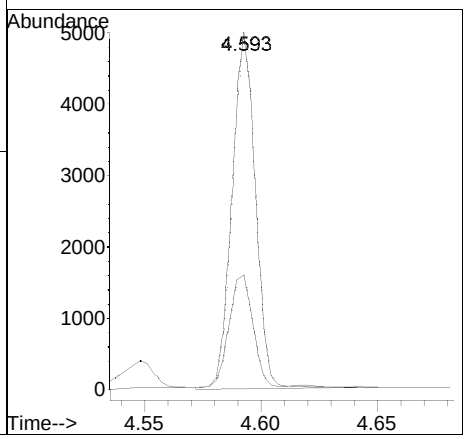


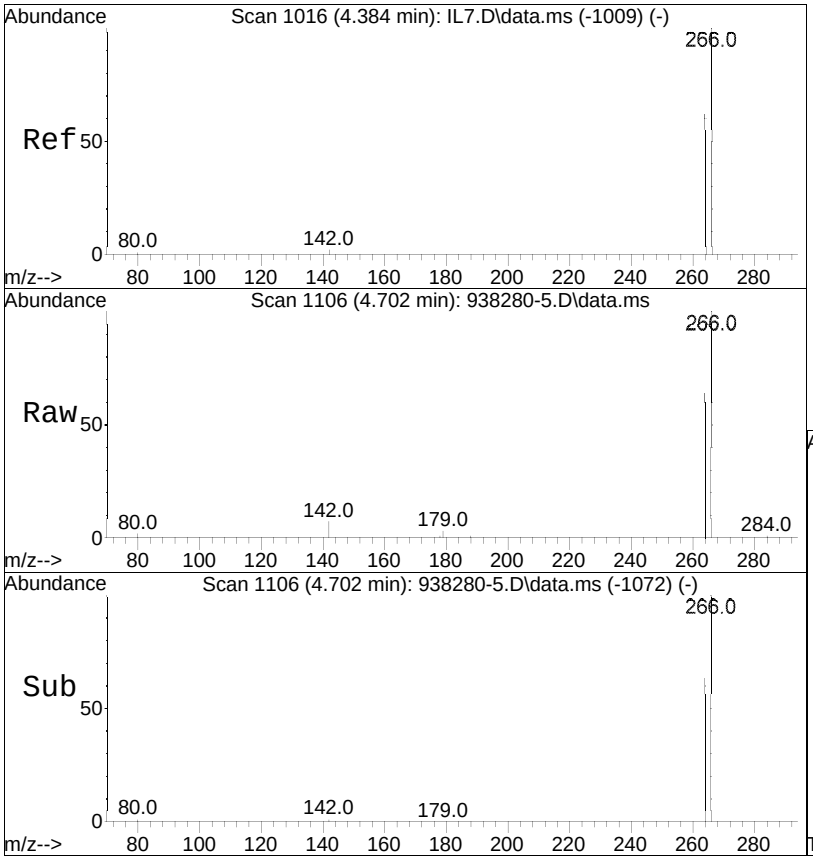


#24
Hexachlorobenzene
Concen: 3005.99 ng/ml
RT: 4.593 min Scan# 1069
Delta R.T. -0.003 min
Lab File: 938280-5.D
Acq: 24 Jun 2024 01:25 pm

Tgt Ion:284 Resp: 3429

Ion	Ratio	Lower	Upper
284	100		
142	33.1	23.9	35.9

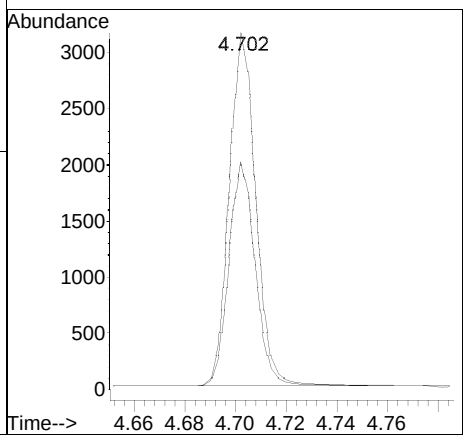


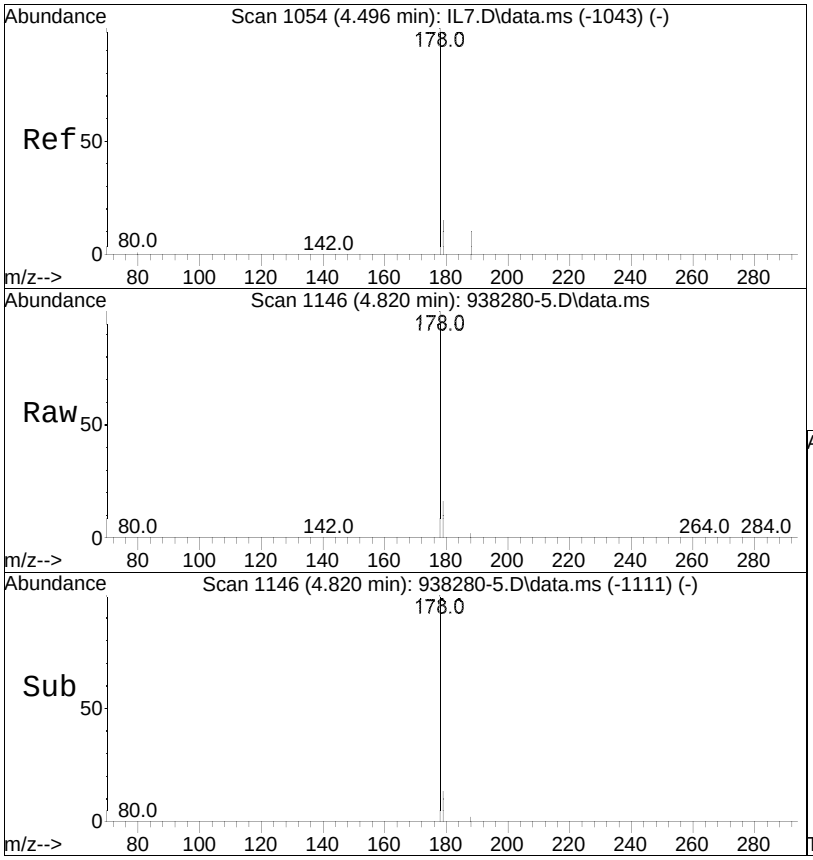


#25
Pentachlorophenol
Concen: 3949.64 ng/ml
RT: 4.702 min Scan# 1106
Delta R.T. -0.003 min
Lab File: 938280-5.D
Acq: 24 Jun 2024 01:25 pm

Tgt Ion:266 Resp: 2269

Ion	Ratio	Lower	Upper
266	100		
264	63.4	49.7	74.5

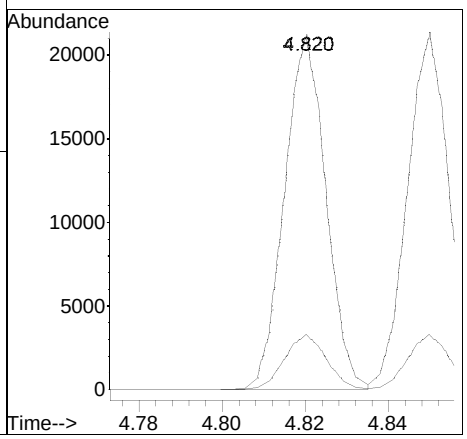


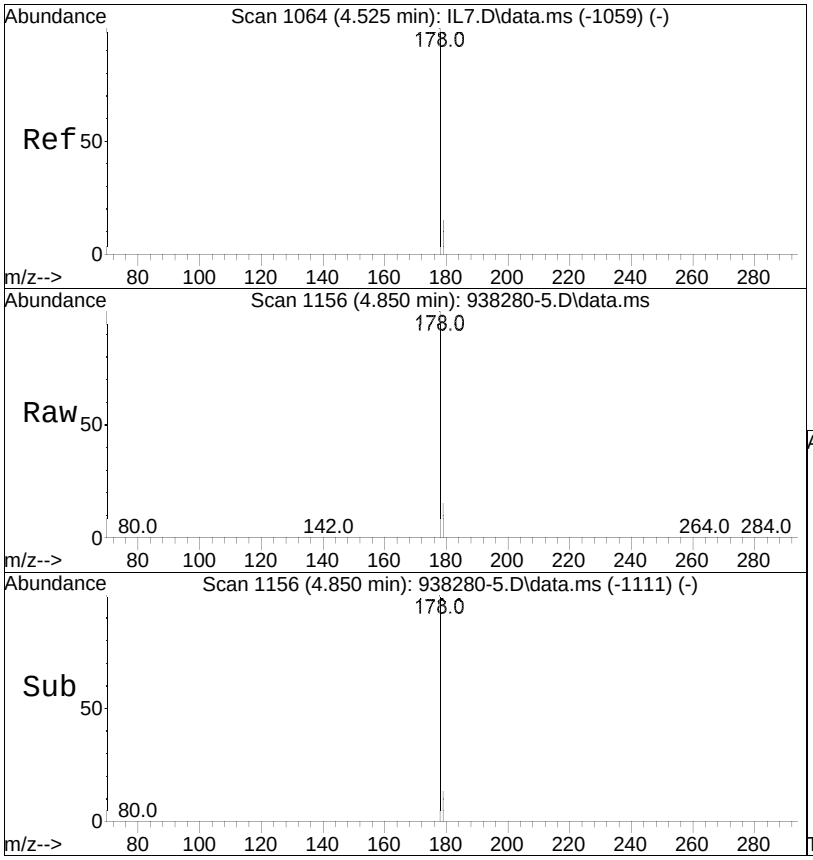


#26
Phenanthrene
Concen: 3141.95 ng/ml
RT: 4.820 min Scan# 1146
Delta R.T. -0.003 min
Lab File: 938280-5.D
Acq: 24 Jun 2024 01:25 pm

Tgt Ion:178 Resp: 14565

Ion	Ratio	Lower	Upper
178	100		
179	15.4	12.2	18.4

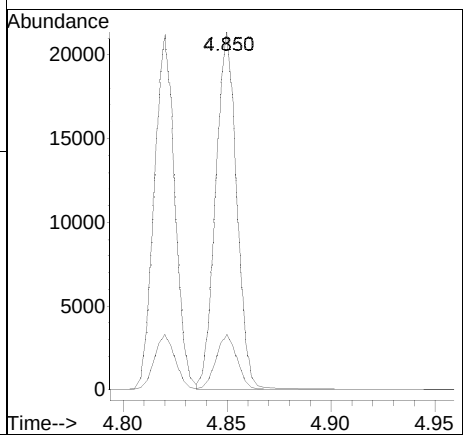


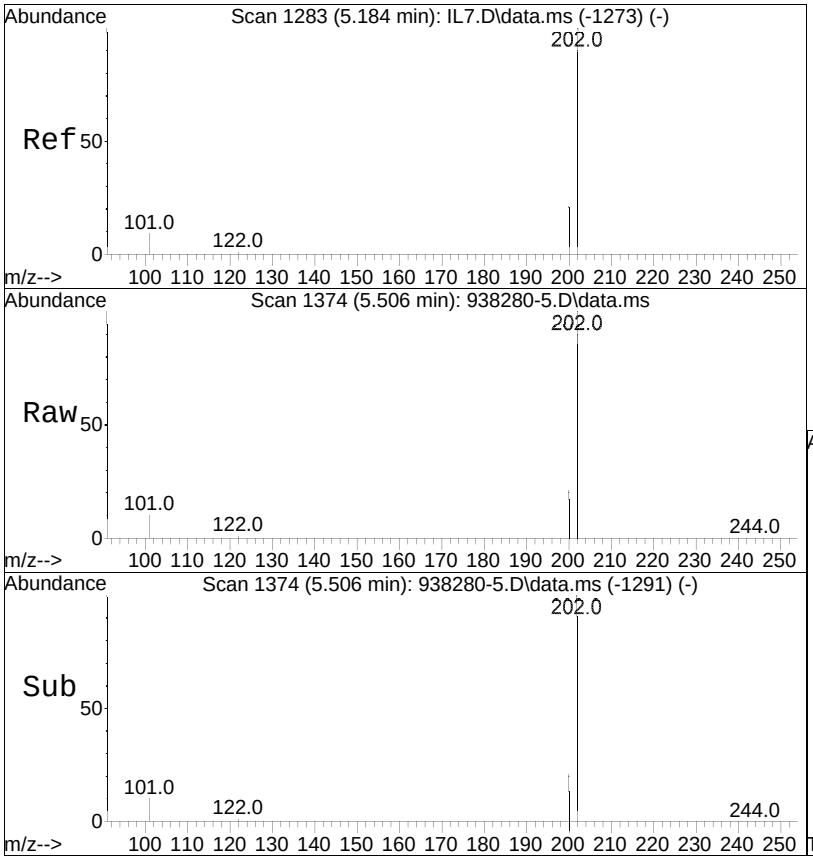


#27
Anthracene
Concen: 3334.49 ng/ml
RT: 4.850 min Scan# 1156
Delta R.T. -0.003 min
Lab File: 938280-5.D
Acq: 24 Jun 2024 01:25 pm

Tgt Ion:178 Resp: 14936

Ion	Ratio	Lower	Upper
178	100		
179	15.3	12.2	18.2

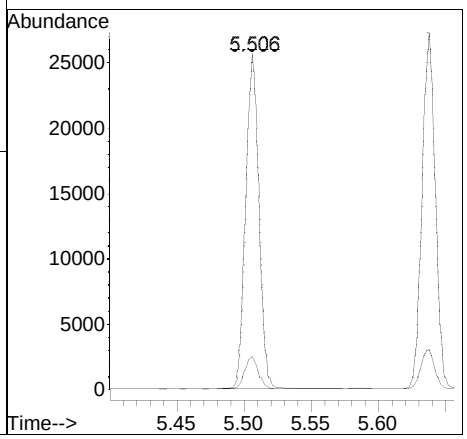


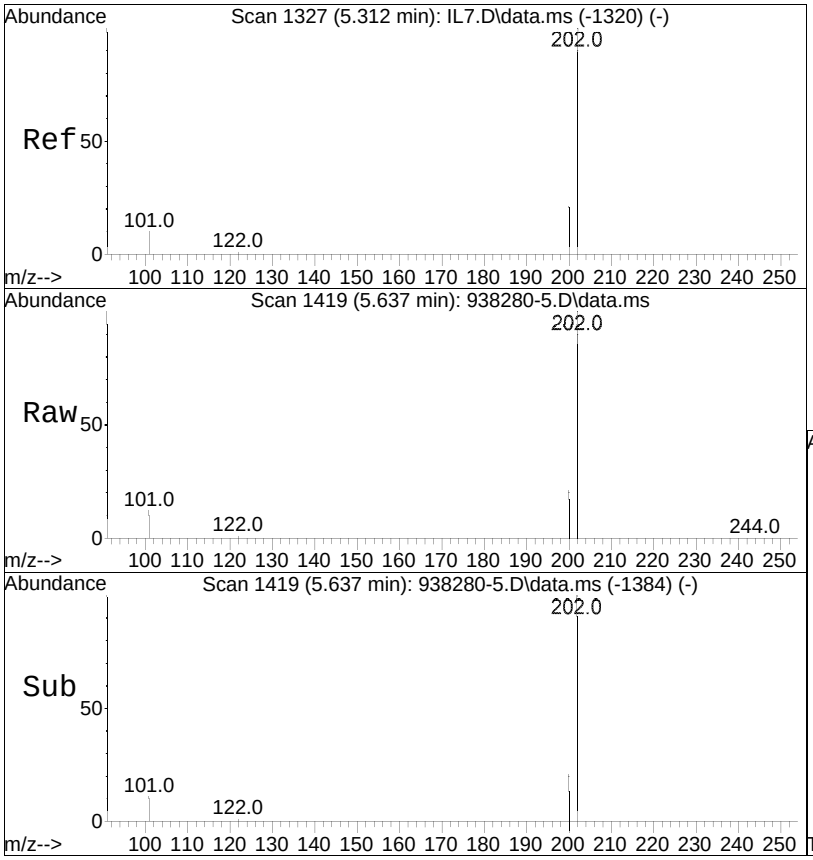


#28
Fluoranthene
Concen: 3490.29 ng/ml M6
RT: 5.506 min Scan# 1374
Delta R.T. -0.003 min
Lab File: 938280-5.D
Acq: 24 Jun 2024 01:25 pm

Tgt Ion:202 Resp: 17776

Ion	Ratio	Lower	Upper
202	100		
101	10.1	7.2	10.8

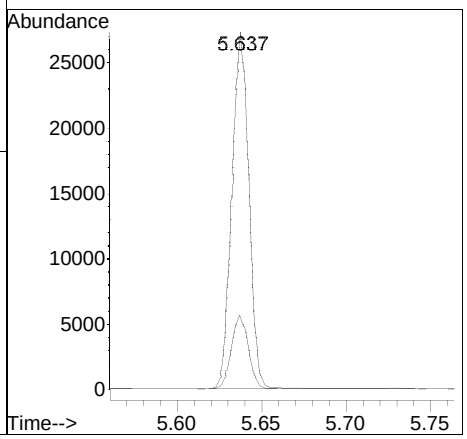


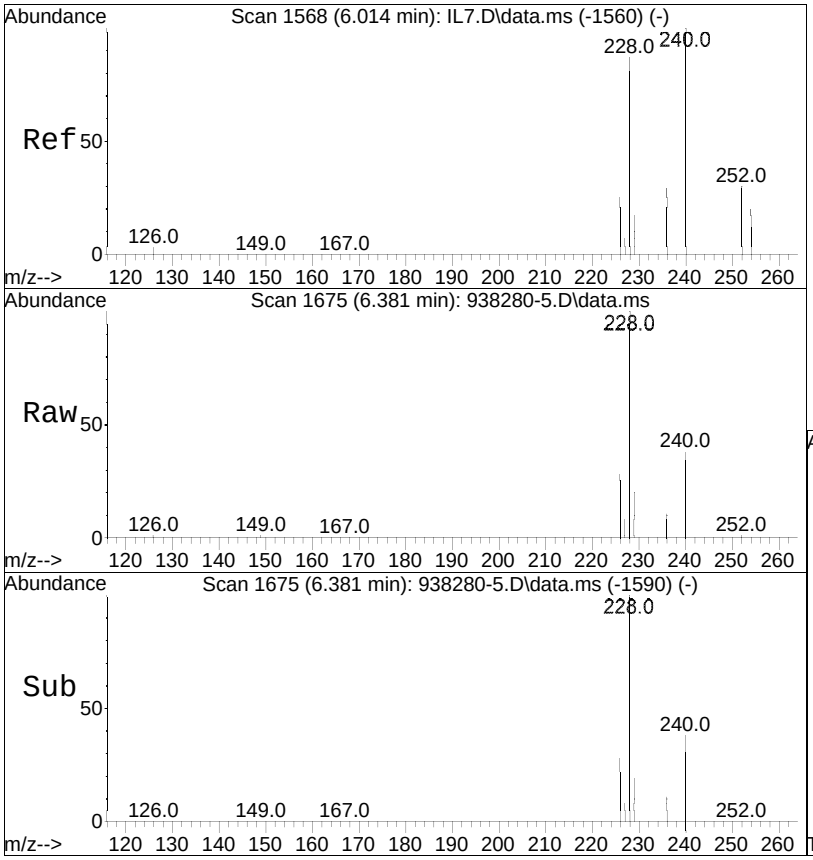


#29
Pyrene
Concen: 3560.00 ng/ml
RT: 5.637 min Scan# 1419
Delta R.T. -0.003 min
Lab File: 938280-5.D
Acq: 24 Jun 2024 01:25 pm

Tgt Ion:202 Resp: 18759

Ion	Ratio	Lower	Upper
202	100		
200	21.3	17.7	26.5

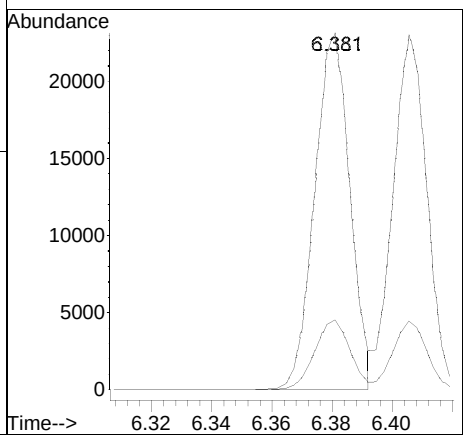


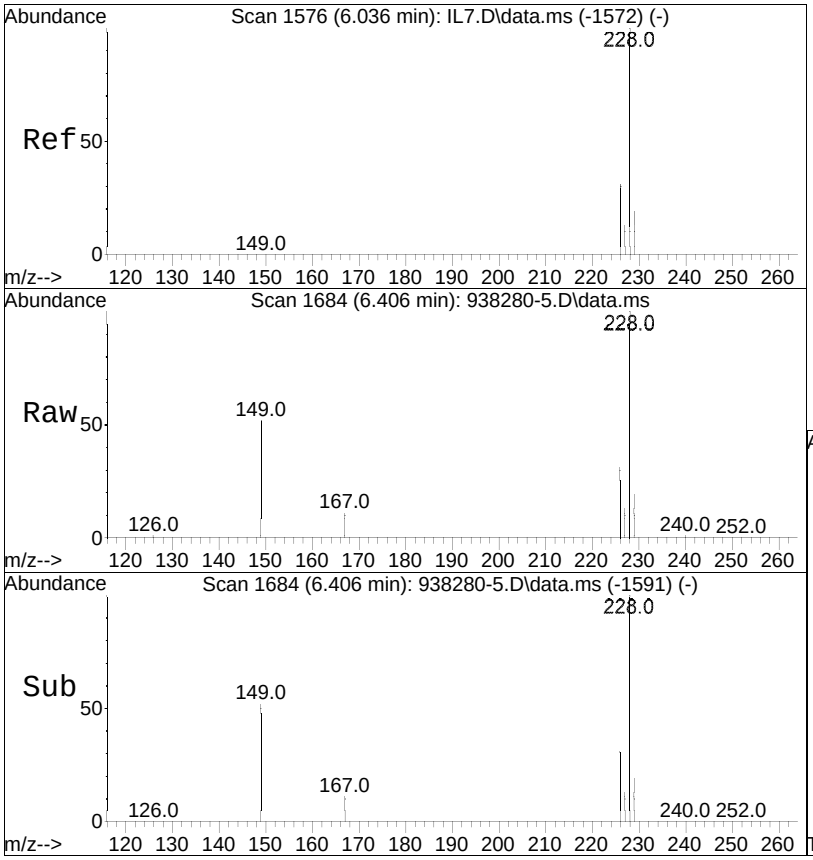


#32
Benzo[a]anthracene
Concen: 3203.66 ng/ml
RT: 6.381 min Scan# 1675
Delta R.T. -0.005 min
Lab File: 938280-5.D
Acq: 24 Jun 2024 01:25 pm

Tgt Ion:228 Resp: 18683

Ion	Ratio	Lower	Upper
228	100		
229	19.4	15.7	23.5

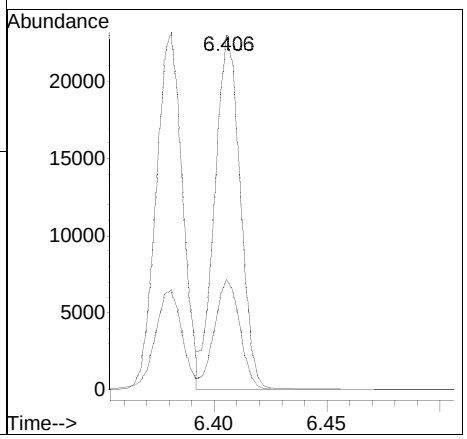


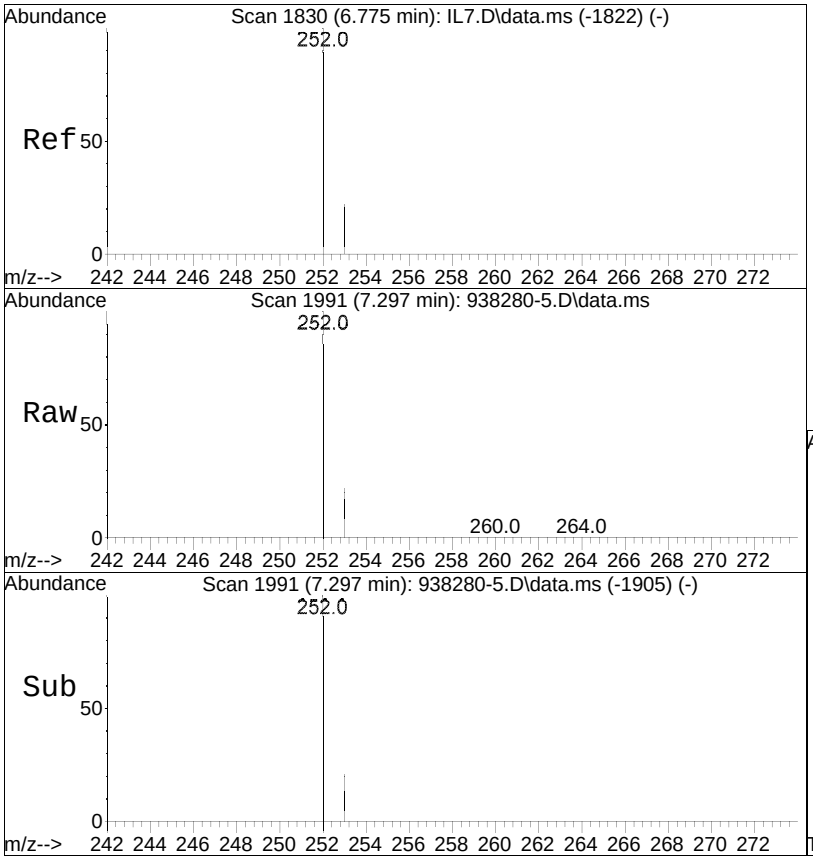


#34
Chrysene
Concen: 3197.25 ng/ml
RT: 6.406 min Scan# 1684
Delta R.T. -0.005 min
Lab File: 938280-5.D
Acq: 24 Jun 2024 01:25 pm

Tgt Ion:228 Resp: 17894

Ion	Ratio	Lower	Upper
228	100		
226	31.0	24.6	36.8

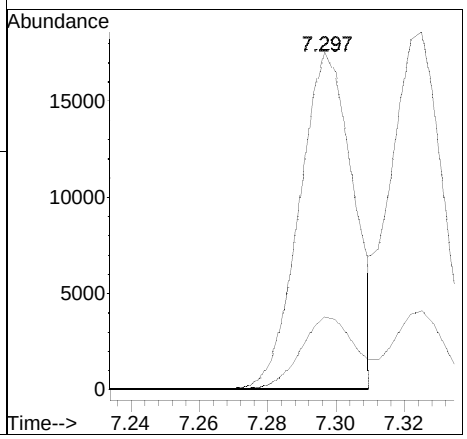


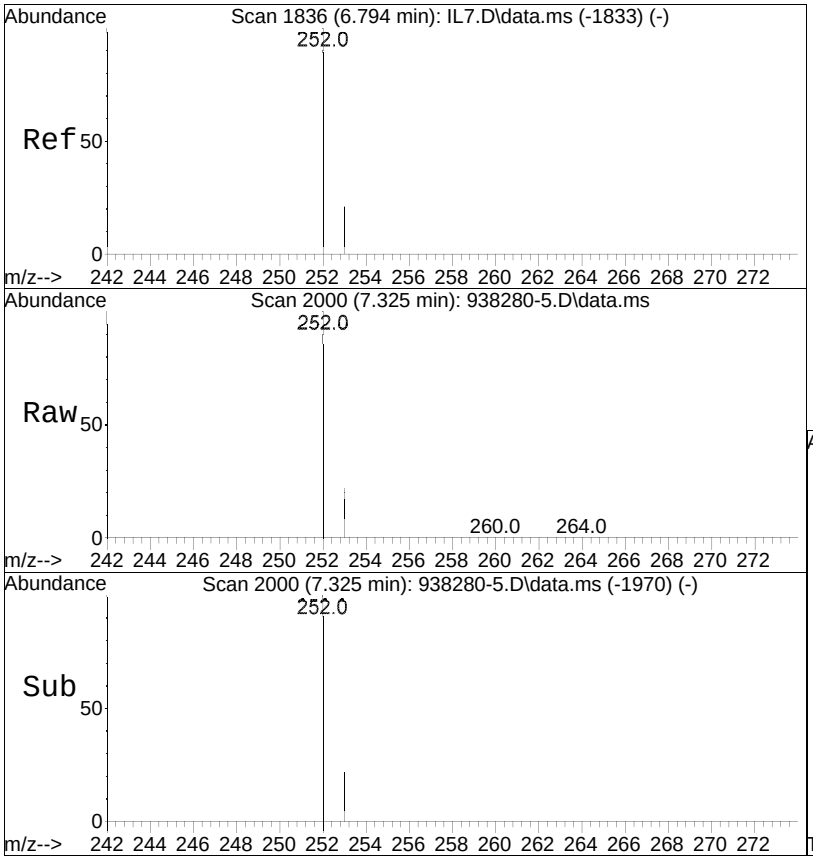


#37
Benzo[b]fluoranthene
Concen: 3172.44 ng/ml
RT: 7.297 min Scan# 1991
Delta R.T. -0.009 min
Lab File: 938280-5.D
Acq: 24 Jun 2024 01:25 pm

Tgt Ion:252 Resp: 19249

Ion	Ratio	Lower	Upper
252	100		
253	21.4	17.1	25.7

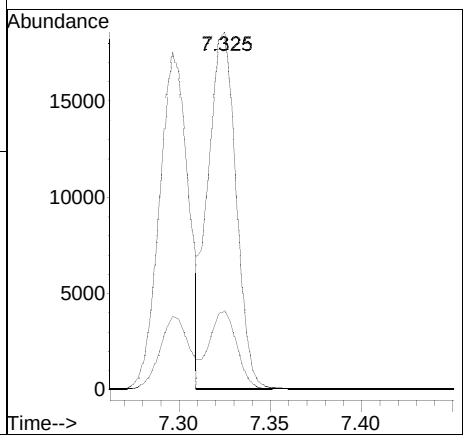


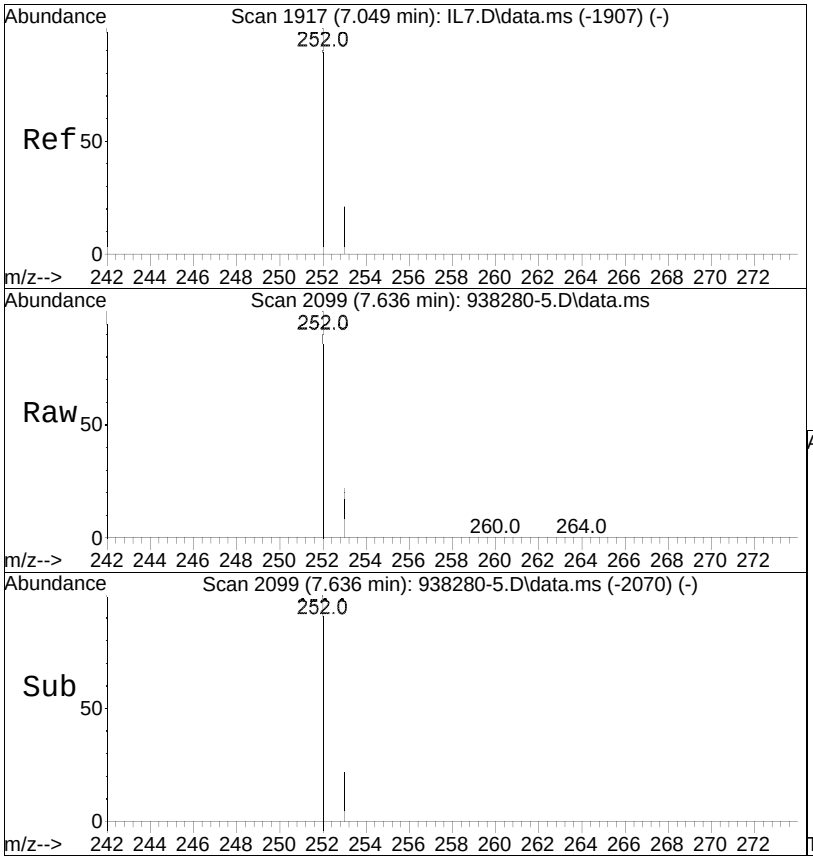


#38
Benzo[k]fluoranthene
Concen: 3489.10 ng/ml
RT: 7.325 min Scan# 2000
Delta R.T. -0.006 min
Lab File: 938280-5.D
Acq: 24 Jun 2024 01:25 pm

Tgt Ion:252 Resp: 19701

Ion	Ratio	Lower	Upper
252	100		
253	21.9	17.3	25.9

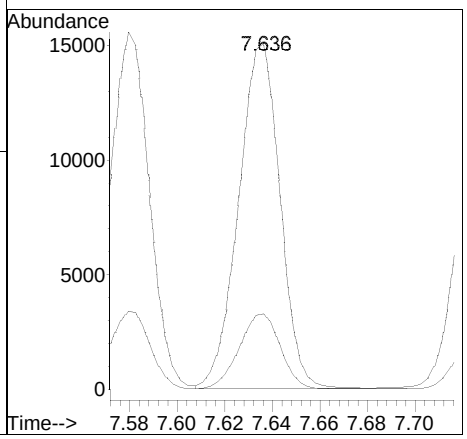


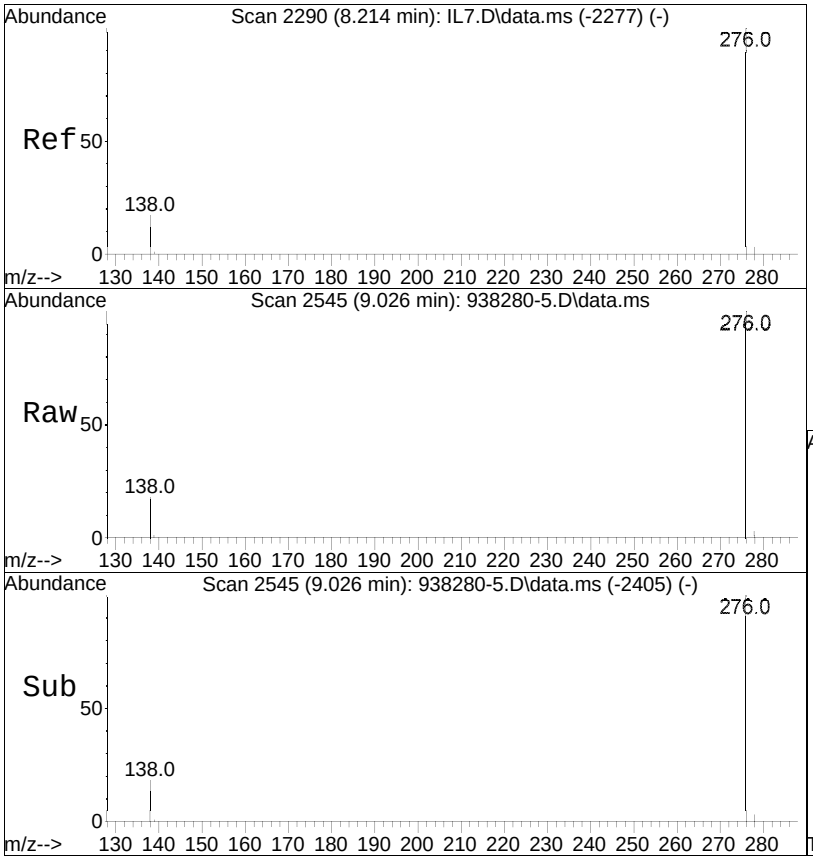


#39
Benzo[a]pyrene
Concen: 3372.43 ng/ml
RT: 7.636 min Scan# 2099
Delta R.T. -0.009 min
Lab File: 938280-5.D
Acq: 24 Jun 2024 01:25 pm

Tgt Ion:252 Resp: 18019

Ion	Ratio	Lower	Upper
252	100		
253	21.6	17.3	25.9

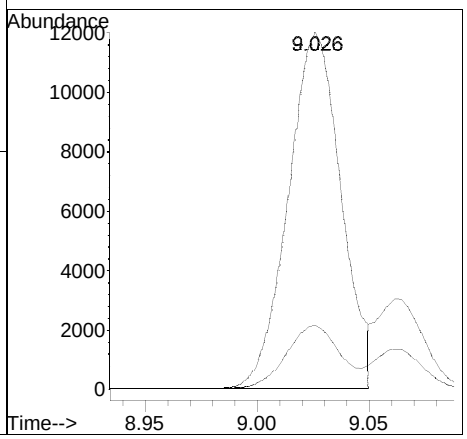


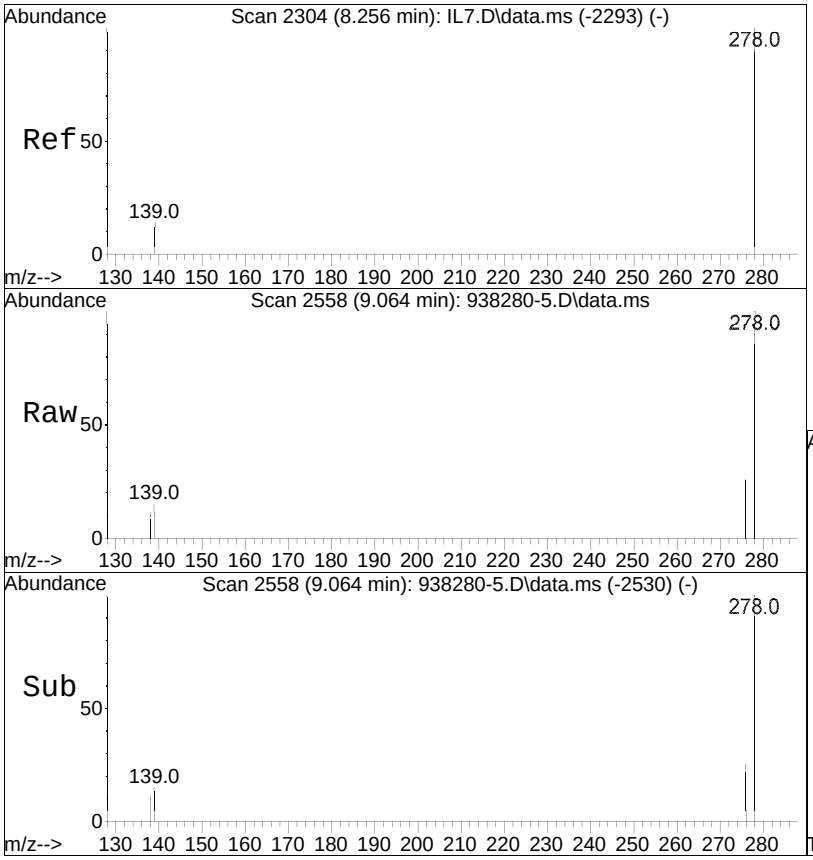


#40
Indeno[1,2,3-cd]pyrene
Concen: 3653.08 ng/ml
RT: 9.026 min Scan# 2545
Delta R.T. -0.015 min
Lab File: 938280-5.D
Acq: 24 Jun 2024 01:25 pm

Tgt Ion:276 Resp: 19517

Ion	Ratio	Lower	Upper
276	100		
138	18.3	13.4	20.2

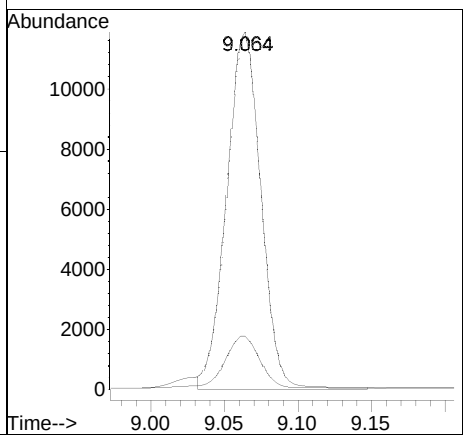


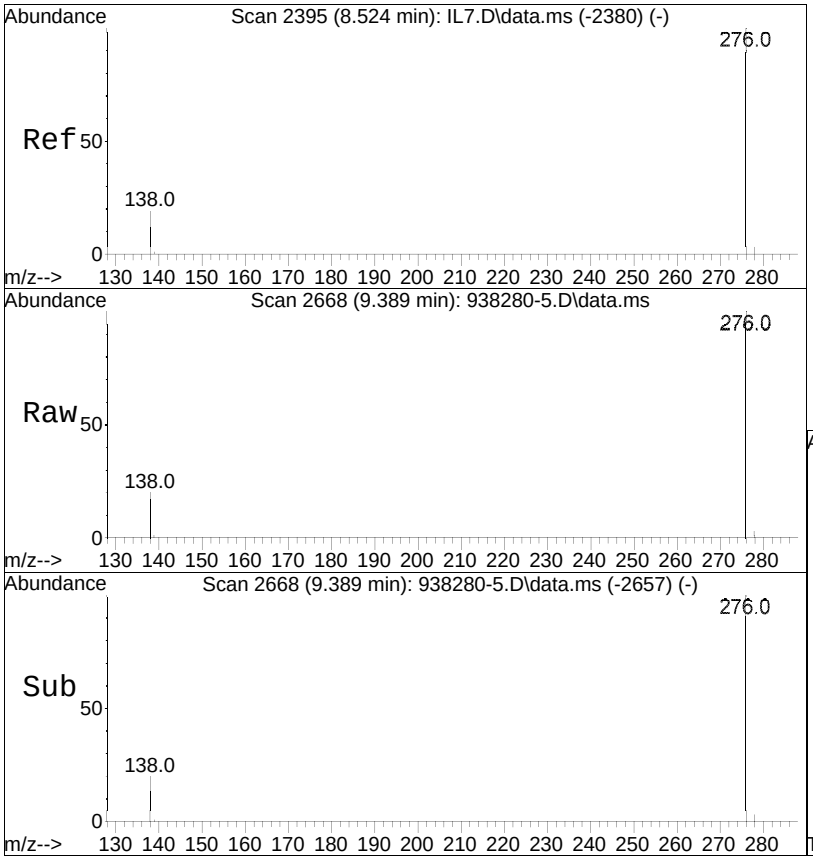


#41
Dibenzo[a,h]anthracene
Concen: 3697.85 ng/ml M6
RT: 9.064 min Scan# 2558
Delta R.T. -0.017 min
Lab File: 938280-5.D
Acq: 24 Jun 2024 01:25 pm

Tgt Ion:278 Resp: 19188

Ion	Ratio	Lower	Upper
278	100		
139	15.4	10.9	16.3

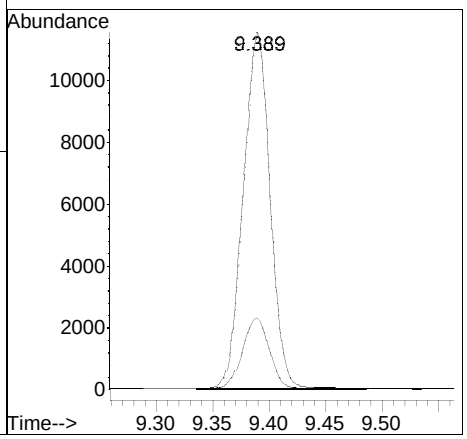




#42
Benzo[g,h,i]perylene
Concen: 3409.02 ng/ml M1
RT: 9.389 min Scan# 2668
Delta R.T. -0.017 min
Lab File: 938280-5.D
Acq: 24 Jun 2024 01:25 pm

Tgt Ion:276 Resp: 18931

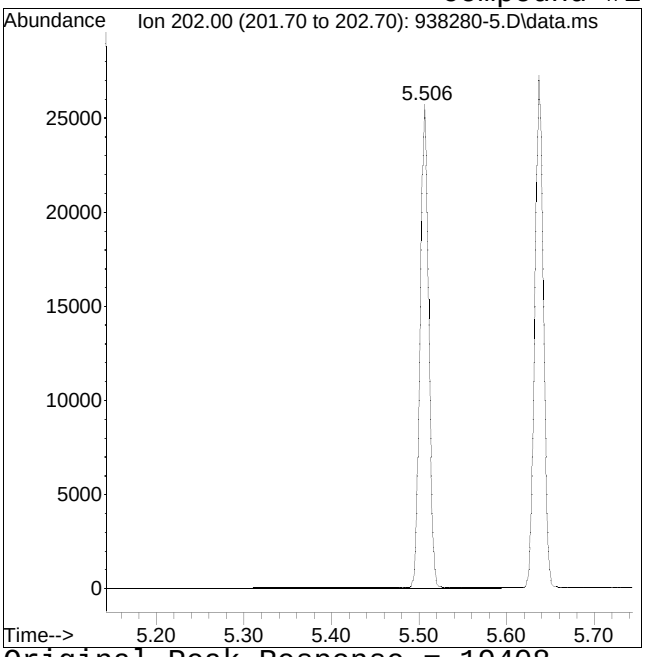
Ion	Ratio	Lower	Upper
276	100		
138	19.6	14.8	22.2



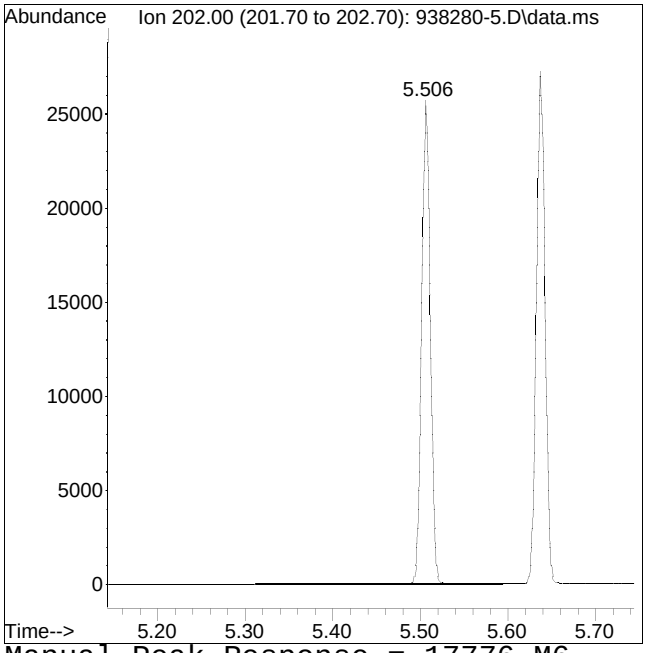
Manual Integration Report

Data Path : I:\8270SIM\SV128\240624\ QMethod : SIM-LVI_231211_sv128.M
Data File : 938280-5.D Operator : SV128:jjw
Date Inj'd : 6/24/2024 1:25 pm Instrument : SV128
Sample : WG1938280-5,32,,jjw Quant Date : 6/24/2024 1:38 pm

Compound #28: Fluoranthene



Original Peak Response = 19408



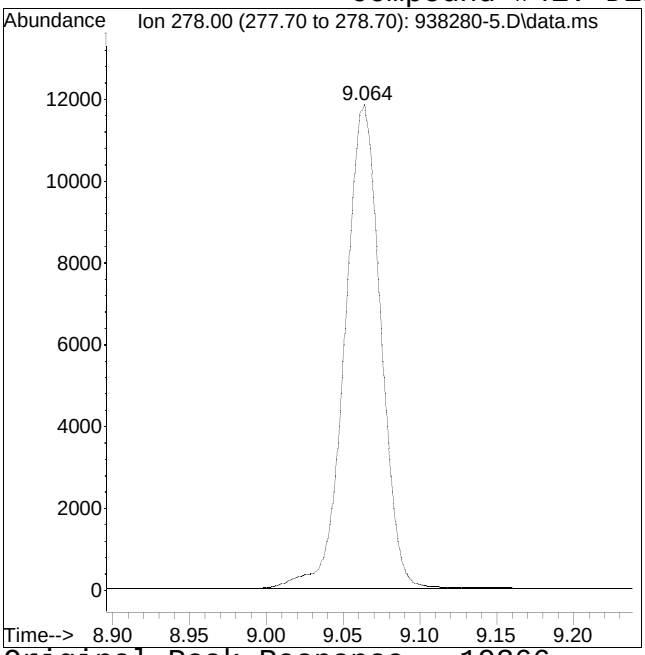
Manual Peak Response = 17776 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

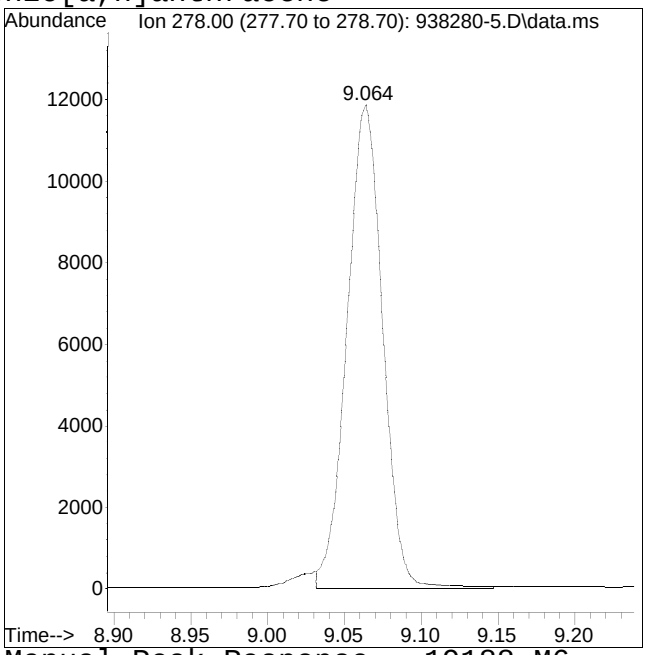
Manual Integration Report

Data Path : I:\8270SIM\SV128\240624\ QMethod : SIM-LVI_231211_sv128.M
Data File : 938280-5.D Operator : SV128:jjw
Date Inj'd : 6/24/2024 1:25 pm Instrument : SV128
Sample : WG1938280-5,32,,jjw Quant Date : 6/24/2024 1:38 pm

Compound #41: Dibenzo[a,h]anthracene



Original Peak Response = 19366



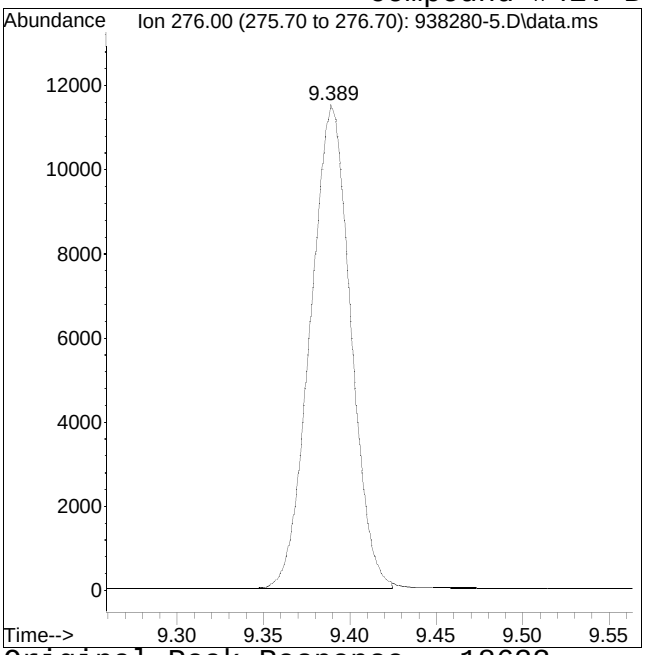
Manual Peak Response = 19188 M6

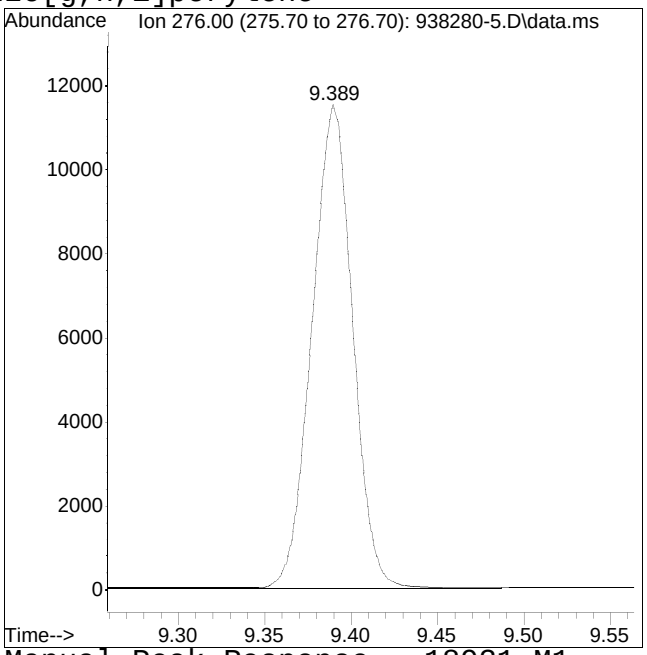
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

Data Path : I:\8270SIM\SV128\240624\ QMethod : SIM-LVI_231211_sv128.M
Data File : 938280-5.D Operator : SV128:jjw
Date Inj'd : 6/24/2024 1:25 pm Instrument : SV128
Sample : WG1938280-5,32,,jjw Quant Date : 6/24/2024 1:38 pm

Compound #42: Benzo[g,h,i]perylene





Original Peak Response = 18633 Manual Peak Response = 18931 M1
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Calculation of Semi Volatile Organic Compounds

Aqueous Concentration Formula: Amt * DF * 1000 * (1/Vo) * Vf

Where:
DF = Dilution Factor
Vo = Volume of Sample (mL)
Vf = Extraction Lab Final Volume (mL)

Soil Concentration Formula: Amt * DF * 1000 * (1/Wt) * Vf * (100/TS)
Where:
DF = Dilution Factor
Wt = Weight of Sample (g)
Vf = Extraction Lab Final Volume (mL)
TS = Total Solids

ALPHA ANALYTICAL LABORATORIES, INC.

Alpha WORK GROUP REPORT (wk02)

Jun 27 2024, 04:25 pm

Work Group: WG1938280 for Department: 2 Organic Preparation

Created: 23-JUN-24 Due: Operator: FMM

Sample	Client ID	C	Product	Matrix	Stat	UA	HOLD	DUE	PR	Location
L2434679-02	MW-6A	C	NYTCL-8270-SIM-LVI	WATER	DONE	U	0625	0626	S0	Amber-A.25
L2434679-03	MW-6B	C	NYTCL-8270-SIM-LVI	WATER	DONE	U	0625	0626	S0	Amber-A.25
L2434679-04	MW-6C	C	NYTCL-8270-SIM-LVI	WATER	DONE	U	0625	0626	S0	Amber-A.25
L2434679-05	MW-7A	C	NYTCL-8270-SIM-LVI	WATER	DONE	U	0625	0626	S0	Amber-A.25
L2434679-06	MW-7B	C	NYTCL-8270-SIM-LVI	WATER	DONE	U	0625	0626	S0	Amber-A.25
L2434679-07	MW-7C	C	NYTCL-8270-SIM-LVI	WATER	DONE	U	0625	0626	S0	Amber-A.25
L2434679-08	MW-8A	C	NYTCL-8270-SIM-LVI	WATER	DONE	U	0625	0626	S0	Amber-A.25
L2434679-09	MW-8B	C	NYTCL-8270-SIM-LVI	WATER	DONE	U	0625	0626	S0	Amber-A.25
L2434679-11	DUP	C	NYTCL-8270-SIM-LVI	WATER	DONE	U	0625	0626	S0	Amber-A.25
L2434679-12	EB	C	NYTCL-8270-SIM-LVI	WATER	DONE	U	0625	0626	S0	Amber-A.25
L2434679-14	MW-8B2	C	NYTCL-8270-SIM-LVI	WATER	DONE	U	0625	0626	S0	Amber-A.25
WG1938280-1	Laboratory Method Bl	S	NYTCL-8270-SIM-LVI	WATER	DONE	U				
WG1938280-2	Laboratory Control S	S	NYTCL-8270-SIM-LVI	WATER	DONE	U				
WG1938280-3	LCS Duplicate	S	NYTCL-8270-SIM-LVI	WATER	DONE	U				
WG1938280-4	Matrix Spike	S	NYTCL-8270-SIM-LVI	WATER	DONE	U				
WG1938280-5	Matrix Spike Duplica	S	NYTCL-8270-SIM-LVI	WATER	DONE	U				

Comments:

WG1938280-3	WG1938280-2
WG1938280-4	L2434679-03
WG1938280-5	L2434679-03

ALPHA ANALYTICAL LABORATORIES, INC.

Alpha WORK GROUP REPORT (wk02)

Jun 27 2024, 04:25 pm

Work Group: WG1938725 for Department: 2 Organic Preparation

Created: 24-JUN-24 Due: Operator: DAE

Sample	Client ID	C	Product	Matrix	Stat	UA	HOLD	DUE	PR	Location
L2433752-01	EFFLUENT LINDE 1	C	NYTCL-8270-SIM-LVI	WATER	DONE	U	0621	0621	S0	Amber-A.25
L2434679-01	MW-3A	C	NYTCL-8270-SIM-LVI	WATER	DONE	U	0626	0626	S0	Amber-A.25
L2434679-10	MW-9B	C	NYTCL-8270-SIM-LVI	WATER	DONE	U	0626	0626	S0	Amber-A.25
WG1938725-1	Laboratory Method Bl	S	NYTCL-8270-SIM-LVI	WATER	DONE	U				
WG1938725-2	Laboratory Control S	S	NYTCL-8270-SIM-LVI	WATER	DONE	U				
WG1938725-3	LCS Duplicate	S	NYTCL-8270-SIM-LVI	WATER	DONE	U				

Comments:

WG1938725-3 WG1938725-2

Analysis log File

Total Files Reported in Log : 15
Log Generated From Directory: I:\8270SIM\SV128\231211LVIical\

No.	DATA FILE	INJ METH	SAMPLE NAME	MISC	DATE INJ'D
1	TUNE.D	DFTPPfast.M	TUNE	WG1864557,,ical	12/11/2023 1:03 pm
2	IL10.D	fast-SIM-LVI	IL10,32,, 20.0 Lot#1018	WG1864557,,ical	12/11/2023 1:27 pm
3	IL9.D	fast-SIM-LVI	IL9,32,, 10.0 Lot#10227	WG1864557,,ical	12/11/2023 1:44 pm
4	IL8.D	fast-SIM-LVI	IL8,32,, 5.0 Lot#10228	WG1864557,,ical	12/11/2023 2:00 pm
5	IL7.D	fast-SIM-LVI	IL7,32,, 1.0 Lot#10229	WG1864557,,ical	12/11/2023 2:17 pm
6	IL6.D	fast-SIM-LVI	IL6,32,, 0.25 Lot#10230	WG1864557,,ical	12/11/2023 2:33 pm
7	IL5.D	fast-SIM-LVI	IL5,32,, 0.1 Lot#10231	WG1864557,,ical	12/11/2023 2:50 pm
8	IL4.D	fast-SIM-LVI	IL4,32,, 0.05 Lot#10232	WG1864557,,ical	12/11/2023 3:06 pm
9	IL3.D	fast-SIM-LVI	IL3,32,, 0.025 Lot#1023	WG1864557,,ical	12/11/2023 3:23 pm
10	IL2.D	fast-SIM-LVI	IL2,32,, 0.01 Lot#10234	WG1864557,,ical	12/11/2023 3:40 pm
11	insblk.D	fast-SIM-LVI			12/11/2023 4:30 pm
12	TUNEa.D	DFTPPfast.M	TUNEa	WG1864557,,ical	12/13/2023 6:43 am
13	IL1a.D	fast-SIM-LVI	IL1,32,, 0.005 Lot#1023	WG1864557,,ical	12/13/2023 7:14 am
14	ICVa.D	fast-SIM-LVI	CQICV,32,, 1.0 Lot#1019	WG1864557,,ical	12/13/2023 7:30 am
15	insblka.D	fast-SIM-LVI			12/13/2023 7:46 am

Dep.: GCMS
Inst: SV128
Date: **06/24/24**
Run:

Method
GC: 8270 SIMLVI

Seq: WG1938533

Vial	Data File	Sample	ICAL	notes	initials
48	deg0624	wg-1,32,, dftpp sv128 lot# 10744			
49	ccv0624	wg-3,32,,ICV 10475 (0617)			
50	blk0624	instrument blank			
1	938280-1	WG1938280-1,32,,jjw			
2	938280-2	WG1938280-2,32,,jjw			
3	938280-3	WG1938280-3,32,,jjw			
4	34679-03	L2434679-03,32,,jjw			
5	938280-4	WG1938280-4,32,,jjw			
6	938280-5	WG1938280-5,32,,jjw			
7	34679-02	L2434679-02,32,,jjw			
8	34679-04	L2434679-04,32,,jjw			
9	34679-05	L2434679-05,32,,jjw			
10	34679-06	L2434679-06,32,,jjw			
11	34679-07	L2434679-07,32,,jjw			
12	34679-08	L2434679-08,32,,jjw			
13	34679-09	L2434679-09,32,,jjw			
14	34679-11	L2434679-11,32,,jjw			
15	34679-12	L2434679-12,32,,jjw			
16	34679-14	L2434679-14,32,,jjw			
17	938159-2	WG1938159-2,32,,jjw			
18	938159-3	WG1938159-3,32,,jjw			
19	938159-1	WG1938159-1,32,,jjw			
20	34202-01	L2434202-01,32,,jjw			
21	938159-4	WG1938159-4,32,,jjw			
22	938159-5	WG1938159-5,32,,jjw			
23	22662-30	L2422662-30,32,,jjw			
24	488-01d1	L2434488-01d,32,5,MD,jjw		HNY – 6/25	

Dep.: GCMS
Inst: SV128
Date: **06/25/24**
Run:

Method
GC: 8270 SIMLVI

Seq: WG1939038

Vial	Data File	Sample	ICAL	notes	initials
48	deg0625	wg-1,32,, dftpp sv128 lot# 10744	20676		06/25/24
49	ccv0625	wg-3,32,,ICV 10475 (0617)			RAP
50	blk0625	instrument blank			
1	938725-1	WG1938725-1,32,,jjw			
2	938725-2	WG1938725-2,32,,jjw			
3	938725-3	WG1938725-3,32,,jjw			
4	33752-01	L2433752-01,32,,jjw			
5	34679-01	L2434679-01,32,,jjw			
6	34679-10	L2434679-10,32,,jjw			

ORGANIC ELN REPORT

Workgroup: WG1938725

Prep Method: EPA 3510C
Solvent Type: DCM
Surrogate Type: ABN
Spike Type: ABN-SIM
Spike Verify by: DAE
Lims Spikelot: 8270-LVI

Lot #: EI560
Lot #: 10743aa,11/06/2024,
Lot #: 10685am,10/11/2024,10727ay,(

Additional Reagents/Stds

H2SO4	A050724
Na2SO4	23L0461008
NaOH	10NNaOH060824

Conc.Method: Buchi
Solvent Type: DCM
Lot #: ei560

Additional Reagents/Stds

Cleanup 1

Cleanup Method 1:
Cleanup Method 2:
Solvent Type:
Lot #:

Additional Reagents/Stds

Sample/ Type	Extraction: Extract Date	Analyst	Sample Vol ml	Ph	Surr Amt ml	Spike Amt ml	Concentration: Conc Date	Analyst	Final Vol ml	Conc Unit
L2433752-01 WATER	06/24/24 17:14	Daniel Erhagbai	275	<2,>12	1		06/24/24 22:37	Victor Kono	1	H
L2434679-01 WATER	06/24/24 17:12	Daniel Erhagbai	275	<2,>12	1		06/24/24 22:37	Victor Kono	1	H
L2434679-10 WATER	06/24/24 17:12	Daniel Erhagbai	275	<2,>12	1		06/24/24 22:37	Victor Kono	1	H
WG1938725-1 BLANK	06/24/24 17:10	Daniel Erhagbai	275	<2,>12	1		06/24/24 22:37	Victor Kono	1	H
	Sharing Qc's with WG1938723									
WG1938725-2 LCS	06/24/24 17:10	Daniel Erhagbai	275	<2,>12	1	1	06/24/24 22:37	Victor Kono	1	H
WG1938725-3 LCSD	06/24/24 17:10	Daniel Erhagbai	275	<2,>12	1	1	06/24/24 22:37	Victor Kono	1	H

Reported: 27-JUN-24 04:25 PM

ORGANIC ELN REPORT

Workgroup: WG1938280

Prep Method: EPA 3510C
Solvent Type: DCM
Surrogate Type: ABN
Spike Type: ABN-SIM
Spike Verify by: FMM
Lims Spikelot: 8270-LVI

Lot #: EI560
Lot #: 10743aa,11/06/2024,4c,25,7
Lot #: 10685am,10/11/2024,10727ay,(

Additional Reagents/Stds

H2SO4	A052024
Na2SO4	23L0461008
NaOH	10NNaOH060824

Conc.Method: Buchi
Solvent Type: DCM
Lot #: EI560

Additional Reagents/Stds

Cleanup 1

Cleanup Method 1:
Cleanup Method 2:
Solvent Type: **Lot #:**

Additional Reagents/Stds

Sample/ Type	Extraction: Extract Date	Analyst	Sample Vol ml	Ph	Surr Amt ml	Spike Amt ml	Concentration: Conc Date	Analyst	Final Vol ml	Conc Unit
L2434679-02 WATER	06/24/24 05:05	Francis Mbro-Menyah	275	<2,>12	1		06/24/24 09:25	Grace Tran	1	H
L2434679-03 WATER	06/23/24 23:56	Francis Mbro-Menyah	275	<2,>12	1		06/24/24 06:11	Alaina Ohara-Cruz	1	H
L2434679-04 WATER	06/23/24 23:56	Francis Mbro-Menyah	275	<2,>12	1		06/24/24 05:28	Alaina Ohara-Cruz	1	H
L2434679-05 WATER	06/23/24 23:56	Francis Mbro-Menyah	275	<2,>12	1		06/24/24 05:28	Alaina Ohara-Cruz	1	H
L2434679-06 WATER	06/23/24 23:56	Francis Mbro-Menyah	275	<2,>12	1		06/24/24 06:18	Alaina Ohara-Cruz	1	H

Reported: 27-JUN-24 04:25 PM

ORGANIC ELN REPORT

Workgroup: WG1938280

Sample/ Type	Extraction						Concentration			
	Extract Date	Analyst	Sample Vol **ml**	Ph	Surr Amt **ml**	Spike Amt **ml**	Conc Date	Analyst	Final Vol **ml**	Conc Unit
L2434679-07 WATER	06/23/24 23:56	Francis Mbro-Menyah	275	<2,>12	1		06/24/24 05:28	Alaina Ohara-Cruz	1	H
L2434679-08 WATER	06/23/24 23:56	Francis Mbro-Menyah	275	<2,>12	1		06/24/24 06:11	Alaina Ohara-Cruz	1	H
L2434679-09 WATER	06/23/24 23:56	Francis Mbro-Menyah	275	<2,>12	1		06/24/24 05:28	Alaina Ohara-Cruz	1	H
L2434679-11 WATER	06/23/24 23:56	Francis Mbro-Menyah	275	<2,>12	1		06/24/24 07:17	Grace Tran	1	H
L2434679-12 WATER	06/23/24 23:56	Francis Mbro-Menyah	275	<2,>12	1		06/24/24 07:17	Grace Tran	1	H
L2434679-14 WATER	06/23/24 23:56	Francis Mbro-Menyah	275	<2,>12	1		06/24/24 07:17	Grace Tran	1	H
WG1938280-1 BLANK	06/23/24 23:56 **WG1938279**	Francis Mbro-Menyah	275	<2,>12	1		06/24/24 05:27	Alaina Ohara-Cruz	1	H
WG1938280-2 LCS	06/23/24 23:56	Francis Mbro-Menyah	275	<2,>12	1	1	06/24/24 05:28	Alaina Ohara-Cruz	1	H

Reported: 27-JUN-24 04:25 PM

ORGANIC ELN REPORT

Workgroup: WG1938280

Sample/ Type	Extraction						Concentration			
	Extract Date	Analyst	Sample Vol **ml**	Ph	Surr Amt **ml**	Spike Amt **ml**	Conc Date	Analyst	Final Vol **ml**	Conc Unit
WG1938280-3 LCSD	06/23/24 23:56	Francis Mbro-Menyah	275	<2,>12	1	1	06/24/24 05:28	Alaina Ohara-Cruz	1	H
WG1938280-4 MS	06/23/24 23:56	Francis Mbro-Menyah	275	<2,>12	1	1	06/24/24 06:11	Alaina Ohara-Cruz	1	H
WG1938280-5 MSD	06/23/24 23:56	Francis Mbro-Menyah	275	<2,>12	1	1	06/24/24 06:11	Alaina Ohara-Cruz	1	H

Reported: 27-JUN-24 04:25 PM

GC Extractable Analysis
Herbicides

Semivolatiles QC Summary

Surrogate Recovery Summary
Form 2
Pesticides

Client: Alpha Geoscience
Project Name: RANCO MINE

Lab Number: L2434679
Project Number: 12123
Matrix: Water

GC Column 1: STX-CLP1
GC Column 2: STX-CLP2

CLIENT ID (LAB SAMPLE NO.)	1 %REC	2 %REC	1 %REC	2 %REC	OTHER (1)	OTHER (2)	TOT OUT
MW-3A (L2434679-01)	71	63	--	--			0
MW-6A (L2434679-02)	83	77	--	--			0
MW-6B (L2434679-03)	86	78	--	--			0
MW-6C (L2434679-04)	81	75	--	--			0
MW-7A (L2434679-05)	73	66	--	--			0
MW-7B (L2434679-06)	69	64	--	--			0
MW-7C (L2434679-07)	75	67	--	--			0
MW-8A (L2434679-08)	86	77	--	--			0
MW-8B (L2434679-09)	81	73	--	--			0
MW-9B (L2434679-10)	71	63	--	--			0
DUP (L2434679-11)	86	76	--	--			0
EB (L2434679-12)	89	80	--	--			0
MW-8B2 (L2434679-14)	65	58	--	--			0
WG1938239-1BLANK	100	105	--	--			0
WG1938239-2LCS	106	120	--	--			0
WG1938239-3LCSD	104	118	--	--			0
MW-6BMS	65	84	--	--			0
MW-6BMSD	76	92	--	--			0

QC LIMITS
(30-150) S1 = DCAA

*** Values outside of QC limits**

FORM II HERB-APA

Laboratory Control Sample Summary
Form 3
Pesticides

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Matrix (Level)	: WATER (LOW)		
LCS Sample ID	: WG1938239-2 **Analysis Date** : 06/24/24 13:14	**File ID**	: 16240624a-05
LCSD Sample ID	: WG1938239-3 **Analysis Date** : 06/24/24 13:32	**File ID**	: 16240624a-06

	Laboratory Control Sample			Laboratory Control Duplicate					
Parameter	True (ug/l)	Found (ug/l)	%R	True (ug/l)	Found (ug/l)	%R	RPD	Recovery Limits	RPD Limit
2,4-D	5	4.81	96	5	4.64	93	3	30-150	25
2,4,5-T	5	5.80	116	5	5.58	112	4	30-150	25
2,4,5-TP (Silvex)	5	5.24	105	5	5.09	102	3	30-150	25

Matrix Spike Sample Summary
Form 3
Pesticides

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Client Sample ID	: MW-6B	**Matrix (Level)**	: WATER (LOW)
Lab Sample ID	: L2434679-03	**Analysis Date**	: 06/24/24 21:43
Matrix Spike	: WG1938239-4	**MS Analysis Date**	: 06/24/24 22:01
Matrix Spike Dup	: WG1938239-5	**MSD Analysis Date**	: 06/24/24 22:20

		Matrix Spike Sample			Matrix Spike Duplicate					
Parameter	Sample Conc. (ug/l)	Spike Added (ug/l)	Spike Conc. (ug/l)	%R	Spike Added (ug/l)	Spike Conc. (ug/l)	%R	RPD	Recovery Limits	RPD Limit
2,4-D	ND	5	3.29J	66	5	4.20J	84	24	30-150	25
2,4,5-T	ND	5	3.81	76	5	4.61	92	19	30-150	25
2,4,5-TP (Silvex)	ND	5	3.75	75	5	4.29	86	13	30-150	25

Method Blank Summary
Form 4
Pesticides

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Lab Sample ID	: WG1938239-1	**Lab File ID**	: 16240624a-04
Matrix	: WATER	**Extraction Date**	: 06/23/24
Analysis Date (1)	: 06/24/24 12:55	**Analysis Date (2)**	: 06/24/24 12:55
Instrument ID (1)	: PEST16	**Instrument ID (2)**	: PEST16

Client Sample No.	Lab Sample ID	Analysis Date 1	Analysis Date 2
WG1938239-2LCS	WG1938239-2	06/24/24 13:14	06/24/24 13:14
WG1938239-3LCSD	WG1938239-3	06/24/24 13:32	06/24/24 13:32
MW-6B	L2434679-03	06/24/24 21:43	06/24/24 21:43
MW-6BMS	WG1938239-4	06/24/24 22:01	06/24/24 22:01
MW-6BMSD	WG1938239-5	06/24/24 22:20	06/24/24 22:20
MW-3A	L2434679-01	06/24/24 23:14	06/24/24 23:14
MW-6A	L2434679-02	06/24/24 23:32	06/24/24 23:32
MW-6C	L2434679-04	06/25/24 00:09	06/25/24 00:09
MW-7A	L2434679-05	06/25/24 00:27	06/25/24 00:27
MW-7B	L2434679-06	06/25/24 00:45	06/25/24 00:45
MW-7C	L2434679-07	06/25/24 01:04	06/25/24 01:04
MW-8A	L2434679-08	06/25/24 01:22	06/25/24 01:22
MW-8B	L2434679-09	06/25/24 01:40	06/25/24 01:40
MW-9B	L2434679-10	06/25/24 01:58	06/25/24 01:58
DUP	L2434679-11	06/25/24 02:16	06/25/24 02:16
EB	L2434679-12	06/25/24 02:35	06/25/24 02:35
MW-8B2	L2434679-14	06/25/24 02:53	06/25/24 02:53

Analytical Sequence
Form 8b
Pesticides

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Instrument ID	: PEST22	**Initial Calib. Date(s)**	: 04/12/24 04/12/24

Client ID	Lab ID	Date/Time Analyzed
Herbicides L1	R1816363-1	04/12/24 06:35
Herbicides L2	R1816363-2	04/12/24 06:54
Herbicides L3	R1816363-3	04/12/24 07:12
Herbicides L4	R1816363-4	04/12/24 07:31
Herbicides L5	R1816363-5	04/12/24 07:49
Herbicides L6	R1816363-6	04/12/24 08:08
R1816363-7 ICV	R1816363-7	04/12/24 08:26
WG1938492-2 CCAL	WG1938492-2	06/24/24 16:07
MW-6B	L2434679-03	06/24/24 21:43
MW-6B MS	WG1938239-4	06/24/24 22:01
MW-6B MSD	WG1938239-5	06/24/24 22:20
MW-3A	L2434679-01	06/24/24 23:14
MW-6A	L2434679-02	06/24/24 23:32
WG1938492-3 CCAL	WG1938492-3	06/24/24 23:51
MW-6C	L2434679-04	06/25/24 00:09
MW-7A	L2434679-05	06/25/24 00:27
MW-7B	L2434679-06	06/25/24 00:45
MW-7C	L2434679-07	06/25/24 01:04
MW-8A	L2434679-08	06/25/24 01:22
MW-8B	L2434679-09	06/25/24 01:40
MW-9B	L2434679-10	06/25/24 01:58
DUP	L2434679-11	06/25/24 02:16
EB	L2434679-12	06/25/24 02:35
MW-8B2	L2434679-14	06/25/24 02:53

Analytical Sequence
Form 8b
Pesticides

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Instrument ID	: PEST16	**Initial Calib. Date(s)**	: 05/21/24 05/21/24

Client ID	Lab ID	Date/Time Analyzed
Herbicides L1	R1832466-2	05/21/24 18:01
Herbicides L2	R1832466-3	05/21/24 18:20
Herbicides L3	R1832466-4	05/21/24 18:38
Herbicides L4	R1832466-5	05/21/24 18:57
Herbicides L5	R1832466-6	05/21/24 19:15
Herbicides L6	R1832466-7	05/21/24 19:34
R1832466-1 ICV	R1832466-1	05/21/24 19:53
WG1938572-1 CCAL	WG1938572-1	06/24/24 05:47
WG1938239-1 BLANK	WG1938239-1	06/24/24 12:55
WG1938239-2 LCS	WG1938239-2	06/24/24 13:14
WG1938239-3 LCSD	WG1938239-3	06/24/24 13:32

Date Created: 03/07/23
Created By: Jason Hebert
File: PM14024-1
Page: 1

Herbicides -EPA 8151A Long List (WATER)

Holding Time: 7 days
Container/Sample Preservation: 2 - Amber 1000ml unpreserved

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria		
MCPP	93-65-2	500	58.5	ug/l	30-150	25	30-150	25	25			
MCPA	94-74-6	500	63.2	ug/l	30-150	25	30-150	25	25			
Dalapon	75-99-0	20	0.81	ug/l	30-150	25	30-150	25	25			
Dicamba	1918-00-9	1	0.243	ug/l	30-150	25	30-150	25	25			
Dichloroprop	120-36-5	10	0.564	ug/l	30-150	25	30-150	25	25			
2,4-D	94-75-7	10	0.498	ug/l	30-150	25	30-150	25	25			
2,4-DB	94-82-6	10	0.729	ug/l	30-150	25	30-150	25	25			
2,4,5-T	93-76-5	2	0.531	ug/l	30-150	25	30-150	25	25			
2,4,5-TP (Silvex)	93-72-1	2	0.539	ug/l	30-150	25	30-150	25	25			
Dinoseb	88-85-7	5	0.573	ug/l	30-150	25	30-150	25	25			
DCAA	*19719-28-9*									*30-150*		

Please Note that the RL information provided in this table is calculated using a 100% Solids factor. (Soil/Solids only)
Please Note that the information provided in this table is subject to change at anytime at the discretion of Alpha Analytical, Inc.

Date Created: 03/07/23
Created By: Jason Hebert
File: PM14022-1
Page: 1

Herbicides -EPA 8151A Long List (SOIL)

Holding Time: 14 days
Container/Sample Preservation: 1 - Glass 250ml/8oz unpreserved

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria		
MCPP	93-65-2	3.33	1.04895	mg/kg	30-150	30	30-150	30	30			
MCPA	94-74-6	3.33	0.94239	mg/kg	30-150	30	30-150	30	30			
Dalapon	75-99-0	0.0333	0.0108891	mg/kg	30-150	30	30-150	30	30			
Dicamba	1918-00-9	0.0333	0.0055944	mg/kg	30-150	30	30-150	30	30			
Dichloroprop	120-36-5	0.0333	0.0095571	mg/kg	30-150	30	30-150	30	30			
2,4-D	94-75-7	0.1665	0.0104895	mg/kg	30-150	30	30-150	30	30			
2,4-DB	94-82-6	0.1665	0.0085581	mg/kg	30-150	30	30-150	30	30			
2,4,5-T	93-76-5	0.1665	0.0051615	mg/kg	30-150	30	30-150	30	30			
2,4,5-TP (Silvex)	93-72-1	0.1665	0.0044289	mg/kg	30-150	30	30-150	30	30			
DCAA	*19719-28-9*									*30-150*		

Please Note that the RL information provided in this table is calculated using a 100% Solids factor. (Soil/Solids only)
Please Note that the information provided in this table is subject to change at anytime at the discretion of Alpha Analytical, Inc.

Herbicide Sample Data

Results Summary
Form 1
Chlorinated Herbicides by GC

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Lab ID	: L2434679-01	**Date Collected**	: 06/19/24 09:30
Client ID	: MW-3A	**Date Received**	: 06/19/24
Sample Location	: MANORVILLE, NY	**Date Analyzed**	: 06/24/24 23:14
Sample Matrix	: WATER	**Date Extracted**	: 06/23/24
Analytical Method	: 1,8151A	**Dilution Factor**	: 1
Lab File ID	: 22240624a-34	**Analyst**	: JAG
Sample Amount	: 1000 ml	**Instrument ID**	: PEST22
Extraction Method	: EPA 8151A	**GC Column**	: STX-CLP1
Extract Volume	: 10000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL
Sulfur Cleanup	: N		

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
94-75-7	2,4-D	ND	10.0	0.498	U
93-76-5	2,4,5-T	ND	2.00	0.531	U
93-72-1	2,4,5-TP (Silvex)	ND	2.00	0.539	U

Results Summary
Form 1
Chlorinated Herbicides by GC

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Lab ID	: L2434679-02	**Date Collected**	: 06/18/24 16:35
Client ID	: MW-6A	**Date Received**	: 06/19/24
Sample Location	: MANORVILLE, NY	**Date Analyzed**	: 06/24/24 23:32
Sample Matrix	: WATER	**Date Extracted**	: 06/23/24
Analytical Method	: 1,8151A	**Dilution Factor**	: 1
Lab File ID	: 22240624a-35	**Analyst**	: JAG
Sample Amount	: 1000 ml	**Instrument ID**	: PEST22
Extraction Method	: EPA 8151A	**GC Column**	: STX-CLP1
Extract Volume	: 10000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL
Sulfur Cleanup	: N		

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
94-75-7	2,4-D	ND	10.0	0.498	U
93-76-5	2,4,5-T	ND	2.00	0.531	U
93-72-1	2,4,5-TP (Silvex)	ND	2.00	0.539	U

Results Summary
Form 1
Chlorinated Herbicides by GC

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Lab ID	: L2434679-03	**Date Collected**	: 06/18/24 14:50
Client ID	: MW-6B	**Date Received**	: 06/19/24
Sample Location	: MANORVILLE, NY	**Date Analyzed**	: 06/24/24 21:43
Sample Matrix	: WATER	**Date Extracted**	: 06/23/24
Analytical Method	: 1,8151A	**Dilution Factor**	: 1
Lab File ID	: 22240624a-29	**Analyst**	: JAG
Sample Amount	: 1000 ml	**Instrument ID**	: PEST22
Extraction Method	: EPA 8151A	**GC Column**	: STX-CLP1
Extract Volume	: 10000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL
Sulfur Cleanup	: N		

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
94-75-7	2,4-D	ND	10.0	0.498	U
93-76-5	2,4,5-T	ND	2.00	0.531	U
93-72-1	2,4,5-TP (Silvex)	ND	2.00	0.539	U

Results Summary
Form 1
Chlorinated Herbicides by GC

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Lab ID	: L2434679-04	**Date Collected**	: 06/18/24 14:49
Client ID	: MW-6C	**Date Received**	: 06/19/24
Sample Location	: MANORVILLE, NY	**Date Analyzed**	: 06/25/24 00:09
Sample Matrix	: WATER	**Date Extracted**	: 06/23/24
Analytical Method	: 1,8151A	**Dilution Factor**	: 1
Lab File ID	: 22240624a-37	**Analyst**	: JAG
Sample Amount	: 1000 ml	**Instrument ID**	: PEST22
Extraction Method	: EPA 8151A	**GC Column**	: STX-CLP1
Extract Volume	: 10000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL
Sulfur Cleanup	: N		

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
94-75-7	2,4-D	ND	10.0	0.498	U
93-76-5	2,4,5-T	ND	2.00	0.531	U
93-72-1	2,4,5-TP (Silvex)	ND	2.00	0.539	U

Results Summary
Form 1
Chlorinated Herbicides by GC

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Lab ID	: L2434679-05	**Date Collected**	: 06/18/24 10:15
Client ID	: MW-7A	**Date Received**	: 06/19/24
Sample Location	: MANORVILLE, NY	**Date Analyzed**	: 06/25/24 00:27
Sample Matrix	: WATER	**Date Extracted**	: 06/23/24
Analytical Method	: 1,8151A	**Dilution Factor**	: 1
Lab File ID	: 22240624a-38	**Analyst**	: JAG
Sample Amount	: 1000 ml	**Instrument ID**	: PEST22
Extraction Method	: EPA 8151A	**GC Column**	: STX-CLP1
Extract Volume	: 10000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL
Sulfur Cleanup	: N		

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
94-75-7	2,4-D	ND	10.0	0.498	U
93-76-5	2,4,5-T	ND	2.00	0.531	U
93-72-1	2,4,5-TP (Silvex)	ND	2.00	0.539	U

Results Summary
Form 1
Chlorinated Herbicides by GC

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Lab ID	: L2434679-06	**Date Collected**	: 06/18/24 12:05
Client ID	: MW-7B	**Date Received**	: 06/19/24
Sample Location	: MANORVILLE, NY	**Date Analyzed**	: 06/25/24 00:45
Sample Matrix	: WATER	**Date Extracted**	: 06/23/24
Analytical Method	: 1,8151A	**Dilution Factor**	: 1
Lab File ID	: 22240624a-39	**Analyst**	: JAG
Sample Amount	: 1000 ml	**Instrument ID**	: PEST22
Extraction Method	: EPA 8151A	**GC Column**	: STX-CLP1
Extract Volume	: 10000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL
Sulfur Cleanup	: N		

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
94-75-7	2,4-D	ND	10.0	0.498	U
93-76-5	2,4,5-T	ND	2.00	0.531	U
93-72-1	2,4,5-TP (Silvex)	ND	2.00	0.539	U

Results Summary
Form 1
Chlorinated Herbicides by GC

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Lab ID	: L2434679-07	**Date Collected**	: 06/18/24 12:12
Client ID	: MW-7C	**Date Received**	: 06/19/24
Sample Location	: MANORVILLE, NY	**Date Analyzed**	: 06/25/24 01:04
Sample Matrix	: WATER	**Date Extracted**	: 06/23/24
Analytical Method	: 1,8151A	**Dilution Factor**	: 1
Lab File ID	: 22240624a-40	**Analyst**	: JAG
Sample Amount	: 1000 ml	**Instrument ID**	: PEST22
Extraction Method	: EPA 8151A	**GC Column**	: STX-CLP1
Extract Volume	: 10000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL
Sulfur Cleanup	: N		

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
94-75-7	2,4-D	ND	10.0	0.498	U
93-76-5	2,4,5-T	ND	2.00	0.531	U
93-72-1	2,4,5-TP (Silvex)	ND	2.00	0.539	U

Results Summary
Form 1
Chlorinated Herbicides by GC

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Lab ID	: L2434679-08	**Date Collected**	: 06/18/24 16:47
Client ID	: MW-8A	**Date Received**	: 06/19/24
Sample Location	: MANORVILLE, NY	**Date Analyzed**	: 06/25/24 01:22
Sample Matrix	: WATER	**Date Extracted**	: 06/23/24
Analytical Method	: 1,8151A	**Dilution Factor**	: 1
Lab File ID	: 22240624a-41	**Analyst**	: JAG
Sample Amount	: 1000 ml	**Instrument ID**	: PEST22
Extraction Method	: EPA 8151A	**GC Column**	: STX-CLP1
Extract Volume	: 10000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL
Sulfur Cleanup	: N		

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
94-75-7	2,4-D	ND	10.0	0.498	U
93-76-5	2,4,5-T	ND	2.00	0.531	U
93-72-1	2,4,5-TP (Silvex)	ND	2.00	0.539	U

Results Summary
Form 1
Chlorinated Herbicides by GC

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Lab ID	: L2434679-09	**Date Collected**	: 06/18/24 18:25
Client ID	: MW-8B	**Date Received**	: 06/19/24
Sample Location	: MANORVILLE, NY	**Date Analyzed**	: 06/25/24 01:40
Sample Matrix	: WATER	**Date Extracted**	: 06/23/24
Analytical Method	: 1,8151A	**Dilution Factor**	: 1
Lab File ID	: 22240624a-42	**Analyst**	: JAG
Sample Amount	: 1000 ml	**Instrument ID**	: PEST22
Extraction Method	: EPA 8151A	**GC Column**	: STX-CLP1
Extract Volume	: 10000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL
Sulfur Cleanup	: N		

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
94-75-7	2,4-D	ND	10.0	0.498	U
93-76-5	2,4,5-T	ND	2.00	0.531	U
93-72-1	2,4,5-TP (Silvex)	ND	2.00	0.539	U

Results Summary
Form 1
Chlorinated Herbicides by GC

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Lab ID	: L2434679-10	**Date Collected**	: 06/19/24 11:00
Client ID	: MW-9B	**Date Received**	: 06/19/24
Sample Location	: MANORVILLE, NY	**Date Analyzed**	: 06/25/24 01:58
Sample Matrix	: WATER	**Date Extracted**	: 06/23/24
Analytical Method	: 1,8151A	**Dilution Factor**	: 1
Lab File ID	: 22240624a-43	**Analyst**	: JAG
Sample Amount	: 1000 ml	**Instrument ID**	: PEST22
Extraction Method	: EPA 8151A	**GC Column**	: STX-CLP1
Extract Volume	: 10000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL
Sulfur Cleanup	: N		

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
94-75-7	2,4-D	ND	10.0	0.498	U
93-76-5	2,4,5-T	ND	2.00	0.531	U
93-72-1	2,4,5-TP (Silvex)	ND	2.00	0.539	U

Results Summary
Form 1
Chlorinated Herbicides by GC

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Lab ID	: L2434679-11	**Date Collected**	: 06/18/24 00:00
Client ID	: DUP	**Date Received**	: 06/19/24
Sample Location	: MANORVILLE, NY	**Date Analyzed**	: 06/25/24 02:16
Sample Matrix	: WATER	**Date Extracted**	: 06/23/24
Analytical Method	: 1,8151A	**Dilution Factor**	: 1
Lab File ID	: 22240624a-44	**Analyst**	: JAG
Sample Amount	: 1000 ml	**Instrument ID**	: PEST22
Extraction Method	: EPA 8151A	**GC Column**	: STX-CLP1
Extract Volume	: 10000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL
Sulfur Cleanup	: N		

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
94-75-7	2,4-D	ND	10.0	0.498	U
93-76-5	2,4,5-T	ND	2.00	0.531	U
93-72-1	2,4,5-TP (Silvex)	ND	2.00	0.539	U

Results Summary
Form 1
Chlorinated Herbicides by GC

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Lab ID	: L2434679-12	**Date Collected**	: 06/18/24 19:00
Client ID	: EB	**Date Received**	: 06/19/24
Sample Location	: MANORVILLE, NY	**Date Analyzed**	: 06/25/24 02:35
Sample Matrix	: WATER	**Date Extracted**	: 06/23/24
Analytical Method	: 1,8151A	**Dilution Factor**	: 1
Lab File ID	: 22240624a-45	**Analyst**	: JAG
Sample Amount	: 1000 ml	**Instrument ID**	: PEST22
Extraction Method	: EPA 8151A	**GC Column**	: STX-CLP1
Extract Volume	: 10000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL
Sulfur Cleanup	: N		

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
94-75-7	2,4-D	ND	10.0	0.498	U
93-76-5	2,4,5-T	ND	2.00	0.531	U
93-72-1	2,4,5-TP (Silvex)	ND	2.00	0.539	U

Results Summary
Form 1
Chlorinated Herbicides by GC

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Lab ID	: L2434679-14	**Date Collected**	: 06/18/24 18:07
Client ID	: MW-8B2	**Date Received**	: 06/19/24
Sample Location	: MANORVILLE, NY	**Date Analyzed**	: 06/25/24 02:53
Sample Matrix	: WATER	**Date Extracted**	: 06/23/24
Analytical Method	: 1,8151A	**Dilution Factor**	: 1
Lab File ID	: 22240624a-46	**Analyst**	: JAG
Sample Amount	: 1000 ml	**Instrument ID**	: PEST22
Extraction Method	: EPA 8151A	**GC Column**	: STX-CLP1
Extract Volume	: 10000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL
Sulfur Cleanup	: N		

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
94-75-7	2,4-D	ND	10.0	0.498	U
93-76-5	2,4,5-T	ND	2.00	0.531	U
93-72-1	2,4,5-TP (Silvex)	ND	2.00	0.539	U

Results Summary
Form 1
Chlorinated Herbicides by GC

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Lab ID	: WG1938239-1	**Date Collected**	: NA
Client ID	: WG1938239-1BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 06/24/24 12:55
Sample Matrix	: WATER	**Date Extracted**	: 06/23/24
Analytical Method	: 1,8151A	**Dilution Factor**	: 1
Lab File ID	: 16240624a-04	**Analyst**	: AKM
Sample Amount	: 1000 ml	**Instrument ID**	: PEST16
Extraction Method	: EPA 8151A	**GC Column**	: STX-CLP1
Extract Volume	: 10000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL
Sulfur Cleanup	: N		

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
94-75-7	2,4-D	ND	10.0	0.498	U
93-76-5	2,4,5-T	ND	2.00	0.531	U
93-72-1	2,4,5-TP (Silvex)	ND	2.00	0.539	U

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest22\2024\240624a\
Data File : 22240624a-29.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 24 Jun 2024 21:43
Operator : pest22:jag
Sample : L2434679-03,42,,
Misc : wg1938492,WG1938239,ical21040
ALS Vial : 29 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 25 06:47:39 2024
Quant Method : I:\PEST\Pest22\2024\240624a\Herb22_2024_04_12_mgL_ICAL21040.m
Quant Title : herb
QLast Update : Sun Jun 23 09:11:26 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PEST\Pest22\2024\240624a\22240624a-20.D
Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	mg/l	mg/l
Internal Standards						
1) i 4,4'-DBOB	8.527	8.523	865.3E6	941.3E6	0.250M4	0.250M4
Standard Area 1 : #1 = 1169717395				Recovery =	73.98%	
Standard Area 1 : #2 = 1259817404				Recovery =	74.71%	
System Monitoring Compounds						
3) s DCAA (surrog	6.986	7.453	306.9E6	297.0E6	0.431	0.389M4
Spiked Amount 0.500	Range 30 - 150		Recovery =	86.20%	77.80%	
Target Compounds						
8) t 2,4-D	0.000	0.000	0	0	N.D. d	N.D. d
9) t 2,4,5-TP (Si	0.000	0.000	0	0	N.D. d	N.D. d
10) t 2,4,5-T	0.000	0.000	0	0	N.D. d	N.D. d
SemiQuant Compounds - Not Calibrated on this Instrument						

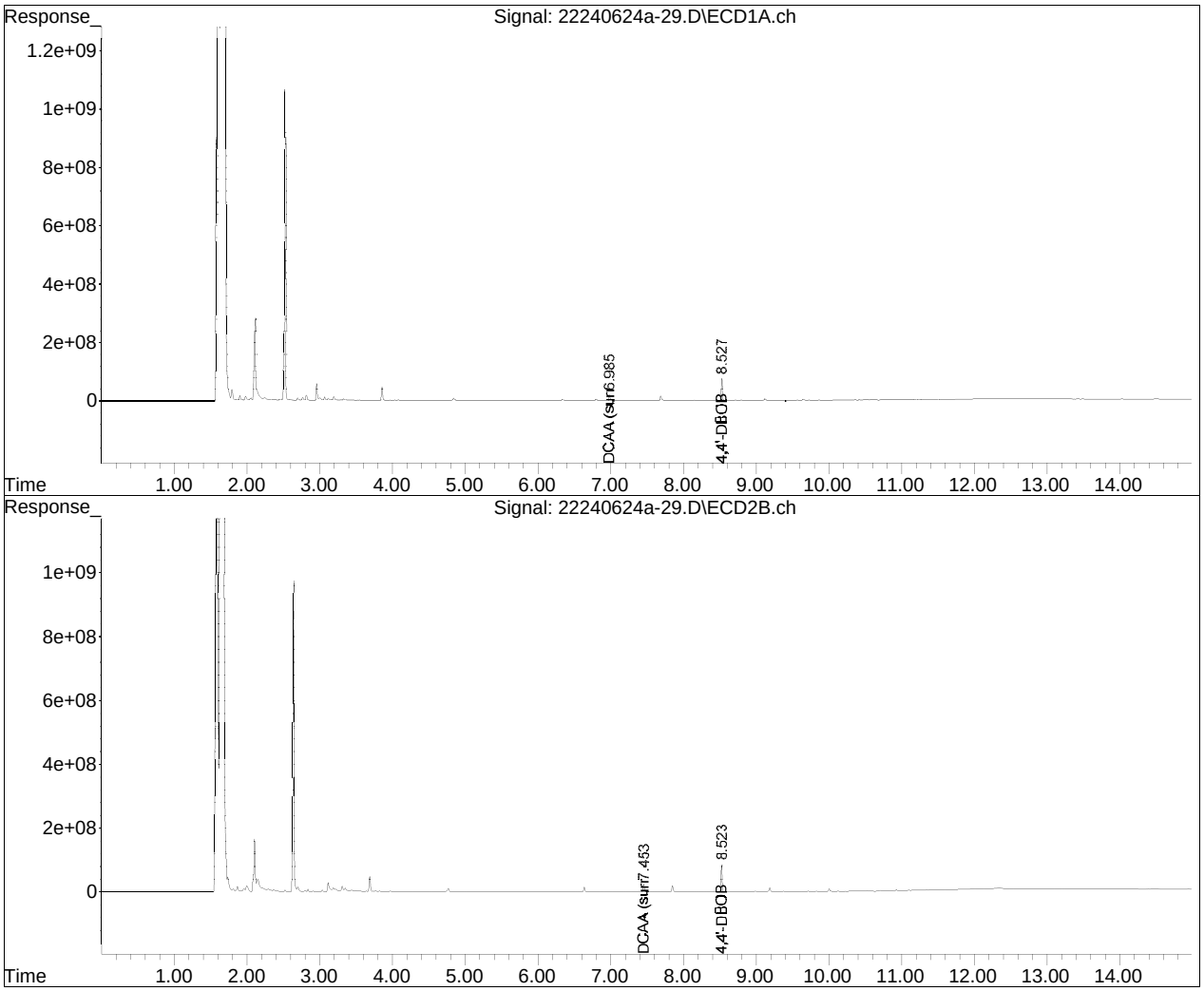
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listeda\22240624a-20.D•

Data Path : I:\PEST\Pest22\2024\240624a\
Data File : 22240624a-29.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 24 Jun 2024 21:43
Operator : pest22:jag
Sample : L2434679-03,42,,
Misc : wg1938492,WG1938239,ical21040
ALS Vial : 29 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 25 06:47:39 2024
Quant Method : I:\PEST\Pest22\2024\240624a\Herb22_2024_04_12_mgL_ICAL21040.m
Quant Title : herb
QLast Update : Sun Jun 23 09:11:26 2024
Response via : Initial Calibration
Integrator: ChemStation

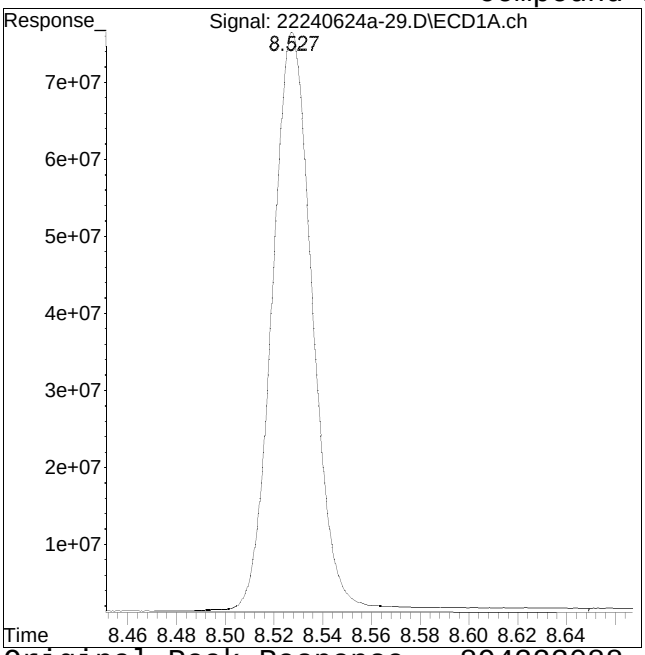
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

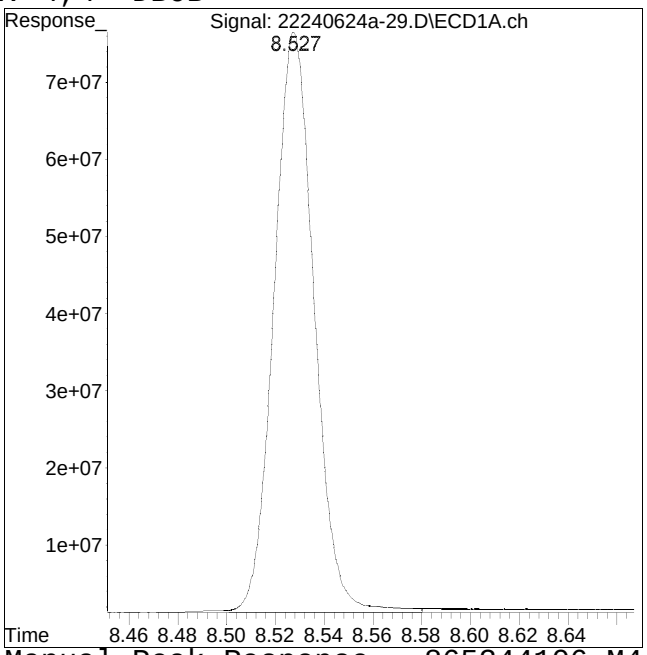


Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240624QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240624a-29.D Operator : pest22:jag
Date Inj'd : 6/24/2024 21:43 Instrument : Pest22
Sample : L2434679-03,42,, Quant Date : 6/25/2024 6:47 am

Compound #1: 4,4'-DBOB



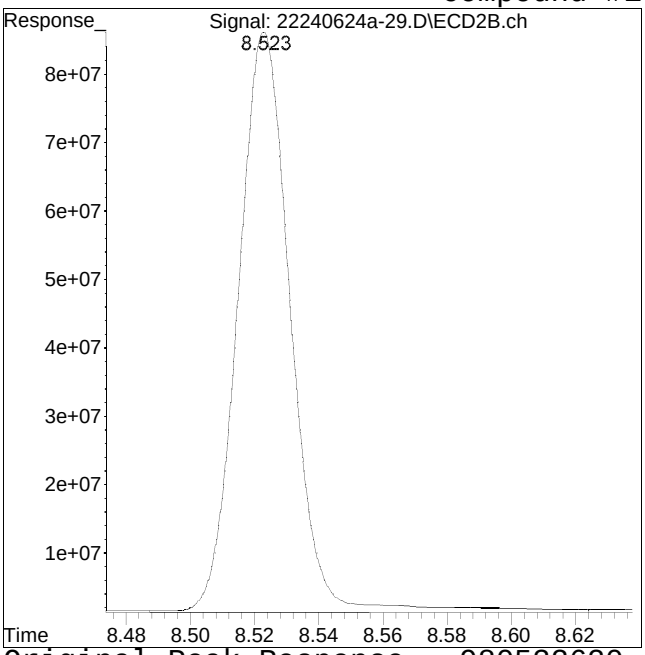


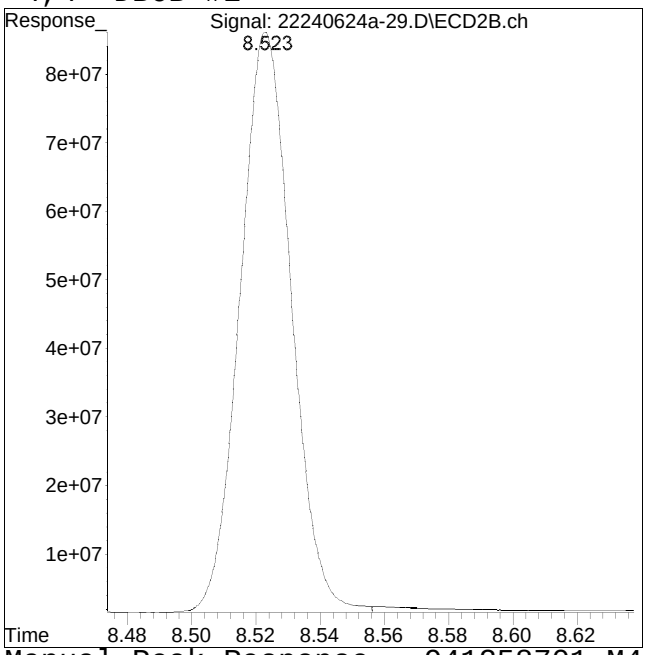
Original Peak Response = 894323088 Manual Peak Response = 865344106 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240624QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240624a-29.D Operator : pest22:jag
Date Inj'd : 6/24/2024 21:43 Instrument : Pest22
Sample : L2434679-03,42,, Quant Date : 6/25/2024 6:47 am

Compound #14: 4,4'-DBOB #2



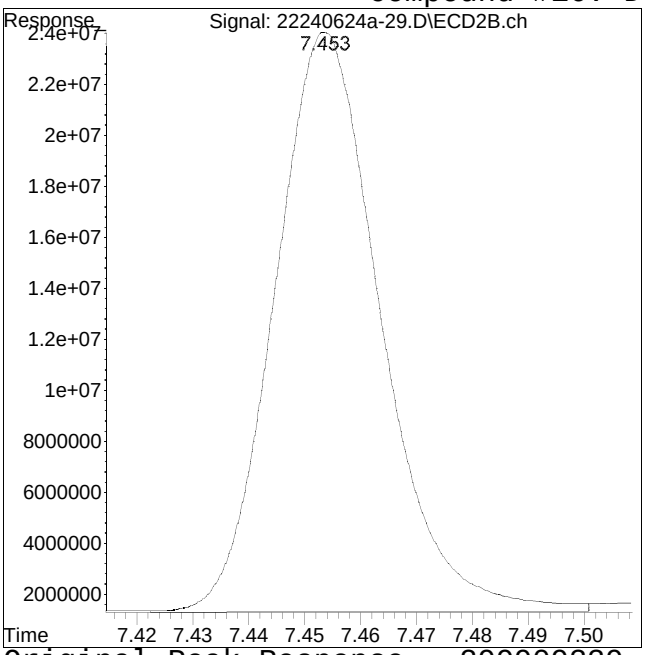


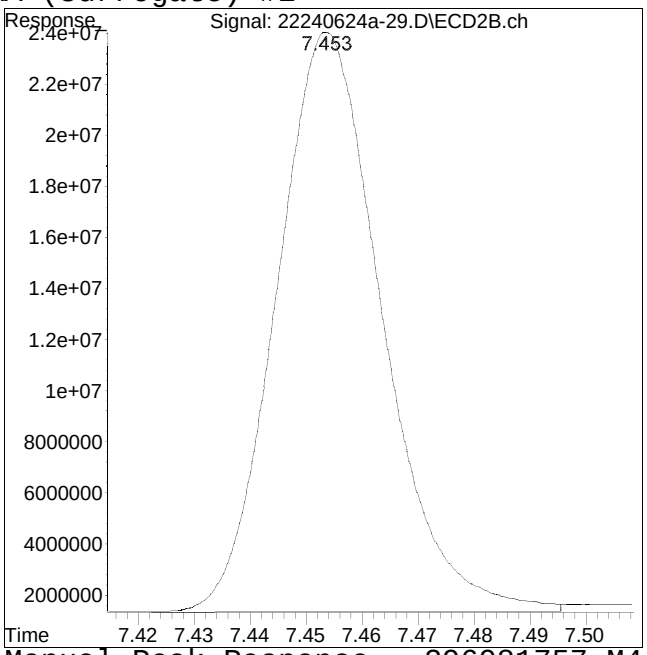
Original Peak Response = 980532620 Manual Peak Response = 941258701 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240624QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240624a-29.D Operator : pest22:jag
Date Inj'd : 6/24/2024 21:43 Instrument : Pest22
Sample : L2434679-03,42,, Quant Date : 6/25/2024 6:47 am

Compound #16: DCAA (surrogate) #2





Original Peak Response = 299909339 Manual Peak Response = 296981757 M4
M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest22\2024\240624a\
Data File : 22240624a-34.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 24 Jun 2024 23:14
Operator : pest22:jag
Sample : L2434679-01,42,,
Misc : wg1938492,WG1938239,ical21040
ALS Vial : 34 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 25 06:47:57 2024
Quant Method : I:\PEST\Pest22\2024\240624a\Herb22_2024_04_12_mgL_ICAL21040.m
Quant Title : herb
QLast Update : Sun Jun 23 09:11:26 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PEST\Pest22\2024\240624a\22240624a-20.D
Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	mg/l	mg/l
Internal Standards						
1) i 4,4'-DBOB	8.527	8.523	859.2E6	952.2E6	0.250M4	0.250M3
Standard Area 1 : #1 = 1169717395				Recovery =	73.46%	
Standard Area 1 : #2 = 1259817404				Recovery =	75.58%	
System Monitoring Compounds						
3) s DCAA (surrog	6.986	7.454	252.2E6	244.6E6	0.357M4	0.317M4
Spiked Amount 0.500	Range 30 - 150		Recovery =	71.40%	63.40%	
Target Compounds						
8) t 2,4-D	0.000	0.000	0	0	N.D. d	N.D. d
9) t 2,4,5-TP (Si	0.000	0.000	0	0	N.D. d	N.D. d
10) t 2,4,5-T	0.000	0.000	0	0	N.D. d	N.D. d
SemiQuant Compounds - Not Calibrated on this Instrument						

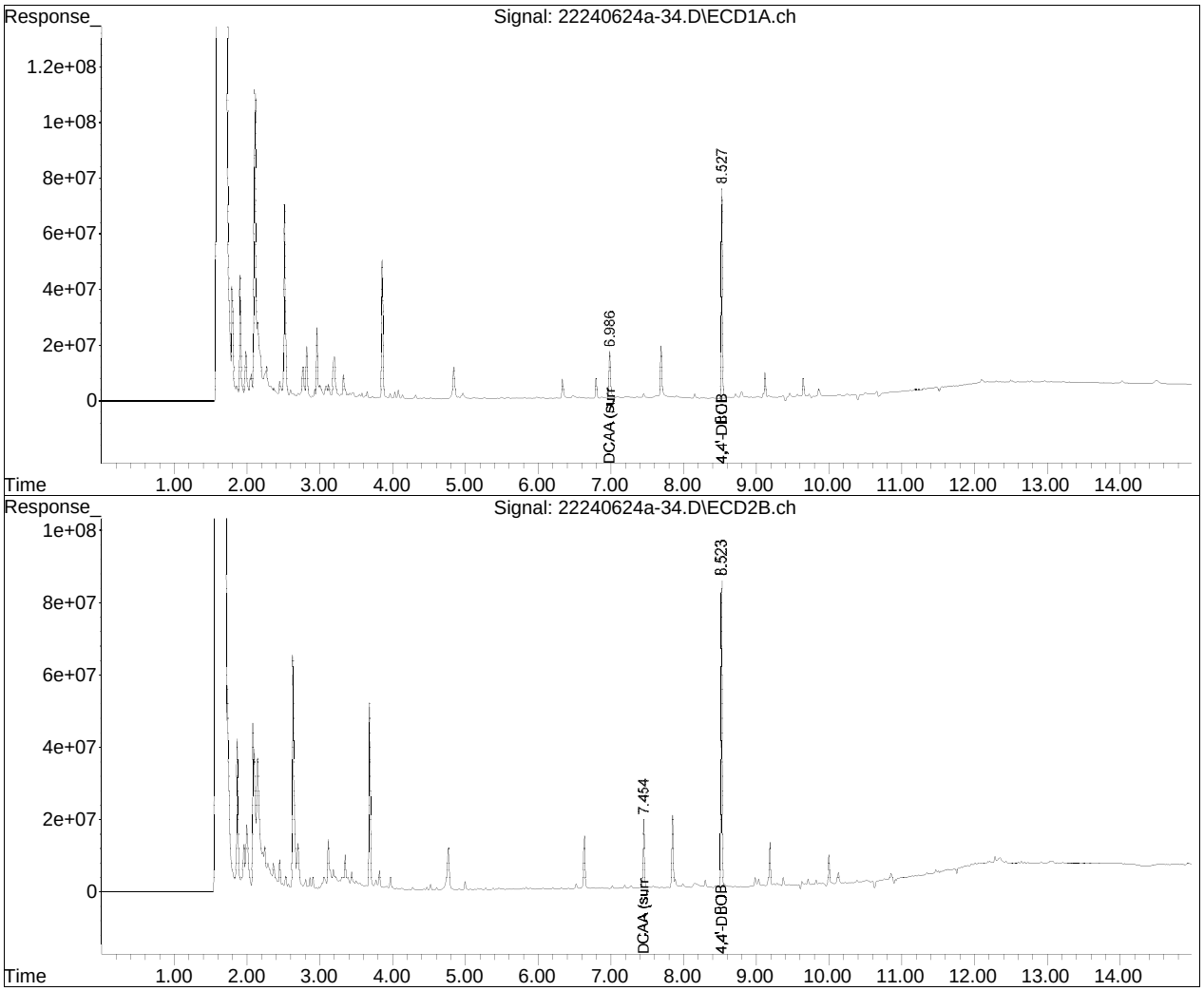
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listeda\22240624a-20.D•

Data Path : I:\PEST\Pest22\2024\240624a\
Data File : 22240624a-34.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 24 Jun 2024 23:14
Operator : pest22:jag
Sample : L2434679-01,42,,
Misc : wg1938492,WG1938239,ical21040
ALS Vial : 34 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 25 06:47:57 2024
Quant Method : I:\PEST\Pest22\2024\240624a\Herb22_2024_04_12_mgL_ICAL21040.m
Quant Title : herb
QLast Update : Sun Jun 23 09:11:26 2024
Response via : Initial Calibration
Integrator: ChemStation

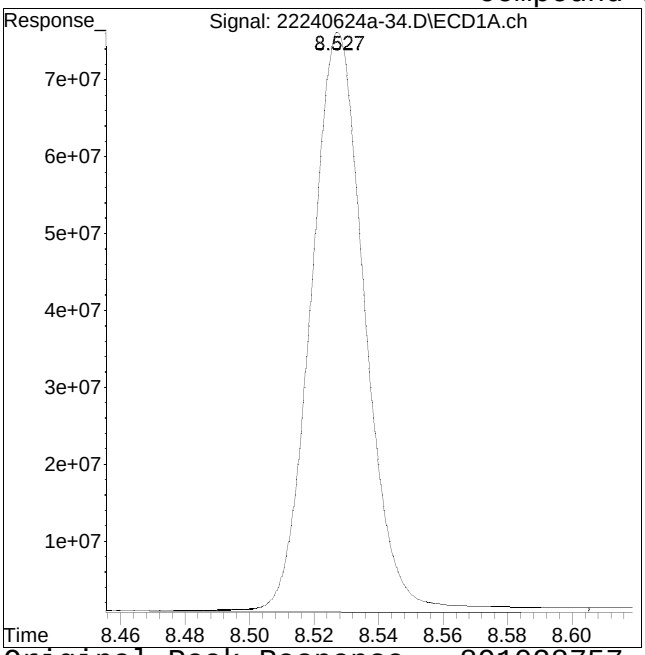
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

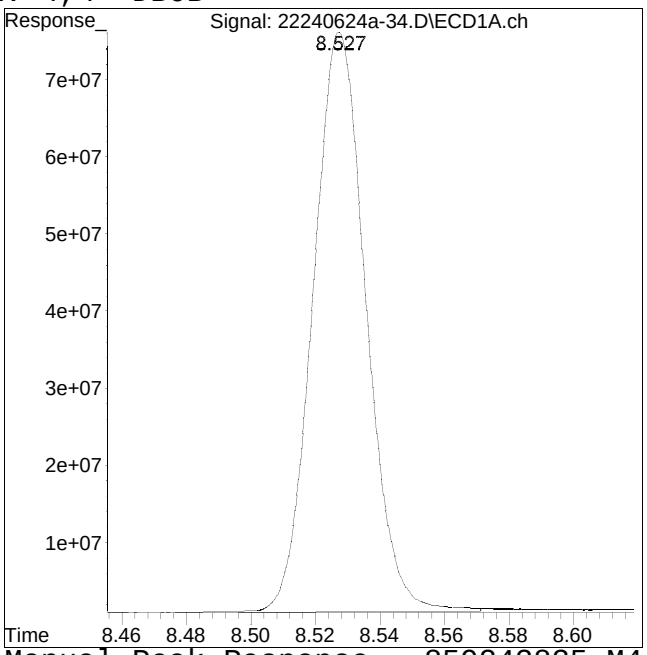


Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240624QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240624a-34.D Operator : pest22:jag
Date Inj'd : 6/24/2024 23:14 Instrument : Pest22
Sample : L2434679-01,42,, Quant Date : 6/25/2024 6:47 am

Compound #1: 4,4'-DBOB



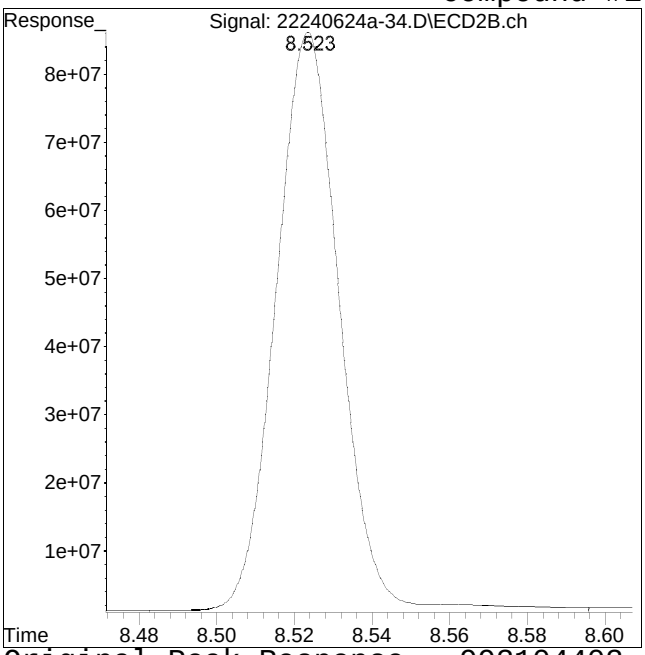


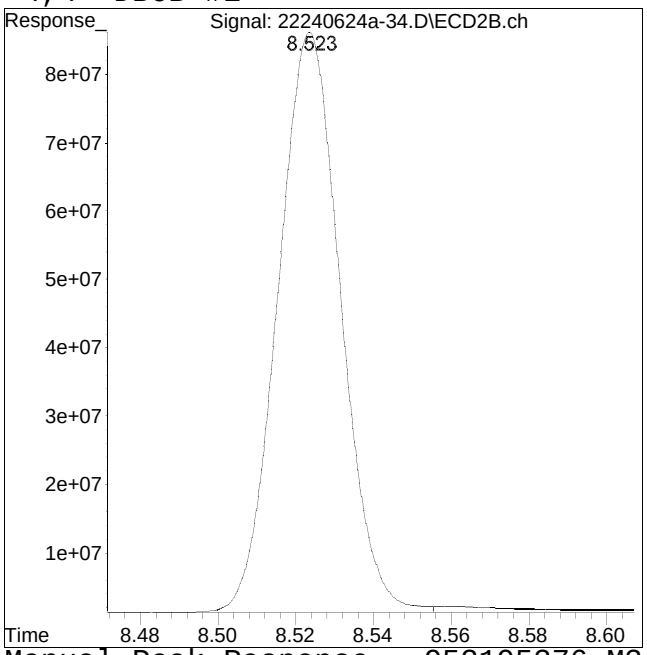
Original Peak Response = 891028757 Manual Peak Response = 859243835 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240624QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240624a-34.D Operator : pest22:jag
Date Inj'd : 6/24/2024 23:14 Instrument : Pest22
Sample : L2434679-01,42,, Quant Date : 6/25/2024 6:47 am

Compound #14: 4,4'-DBOB #2



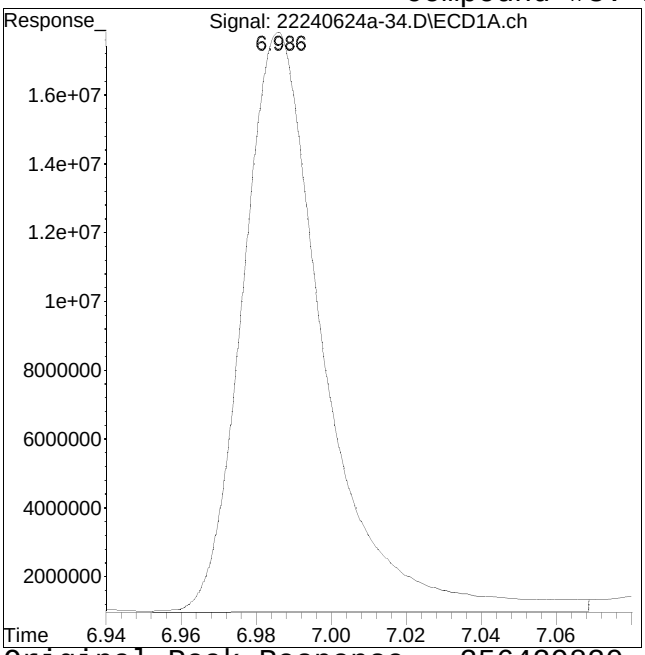


Original Peak Response = 993104403 Manual Peak Response = 952195376 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

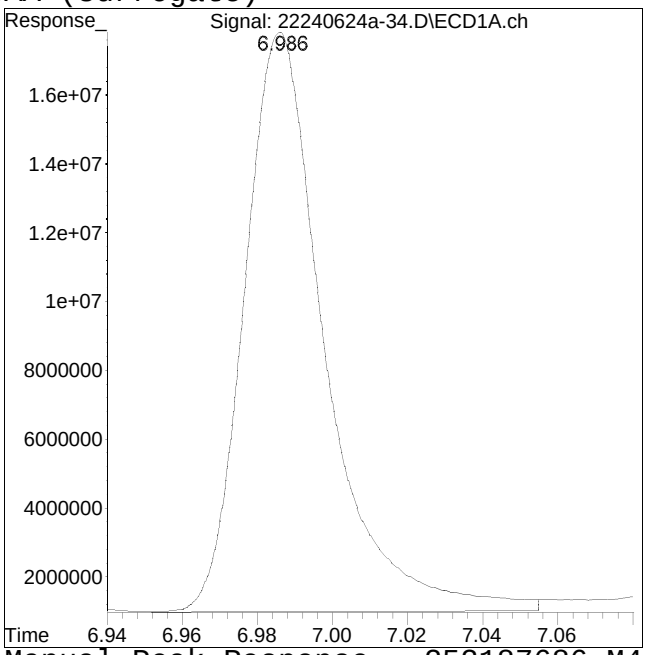
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240624QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240624a-34.D Operator : pest22:jag
Date Inj'd : 6/24/2024 23:14 Instrument : Pest22
Sample : L2434679-01,42,, Quant Date : 6/25/2024 6:47 am

Compound #3: DCAA (surrogate)



Original Peak Response = 256429820



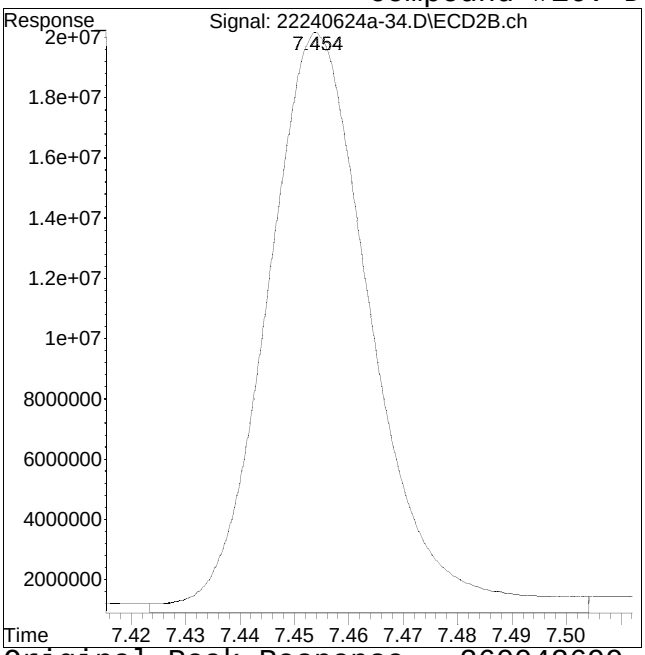
Manual Peak Response = 252187686 M4

M4 = Poor automated baseline construction.

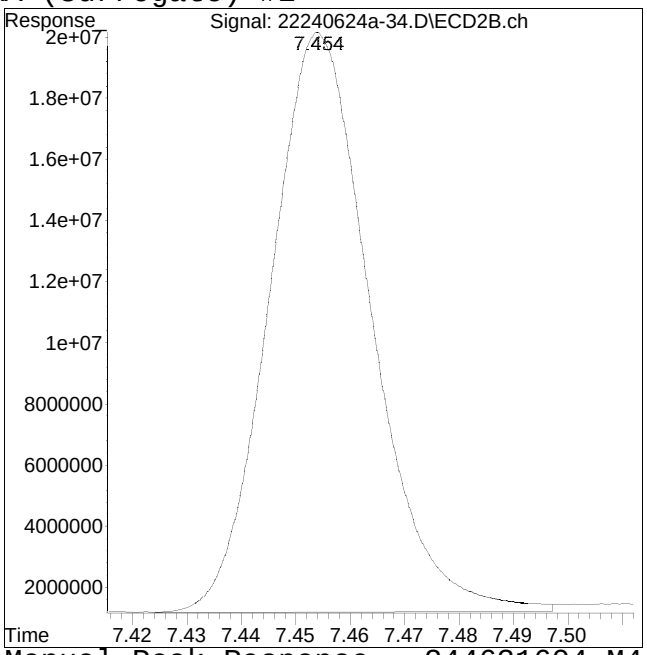
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240624QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240624a-34.D Operator : pest22:jag
Date Inj'd : 6/24/2024 23:14 Instrument : Pest22
Sample : L2434679-01,42,, Quant Date : 6/25/2024 6:47 am

Compound #16: DCAA (surrogate) #2



Original Peak Response = 260042699



Manual Peak Response = 244631604 M4

M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest22\2024\240624a\
Data File : 22240624a-35.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 24 Jun 2024 23:32
Operator : pest22:jag
Sample : L2434679-02,42,,
Misc : wg1938492,WG1938239,ical21040
ALS Vial : 35 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 25 06:47:58 2024
Quant Method : I:\PEST\Pest22\2024\240624a\Herb22_2024_04_12_mgL_ICAL21040.m
Quant Title : herb
QLast Update : Sun Jun 23 09:11:26 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PEST\Pest22\2024\240624a\22240624a-20.D
Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	mg/l	mg/l
Internal Standards						
1) i 4,4'-DBOB	8.528	8.523	867.5E6	945.4E6	0.250M4	0.250M3
Standard Area 1 : #1 = 1169717395				Recovery =	74.16%	
Standard Area 1 : #2 = 1259817404				Recovery =	75.04%	
System Monitoring Compounds						
3) s DCAA (surrog	6.986	7.454	295.0E6	296.4E6	0.413M4	0.387M4
Spiked Amount	0.500	Range 30 - 150		Recovery =	82.60%	77.40%
Target Compounds						
8) t 2,4-D	0.000	0.000	0	0	N.D. d	N.D. d
9) t 2,4,5-TP (Si	0.000	0.000	0	0	N.D. d	N.D. d
10) t 2,4,5-T	0.000	0.000	0	0	N.D. d	N.D. d
SemiQuant Compounds - Not Calibrated on this Instrument						

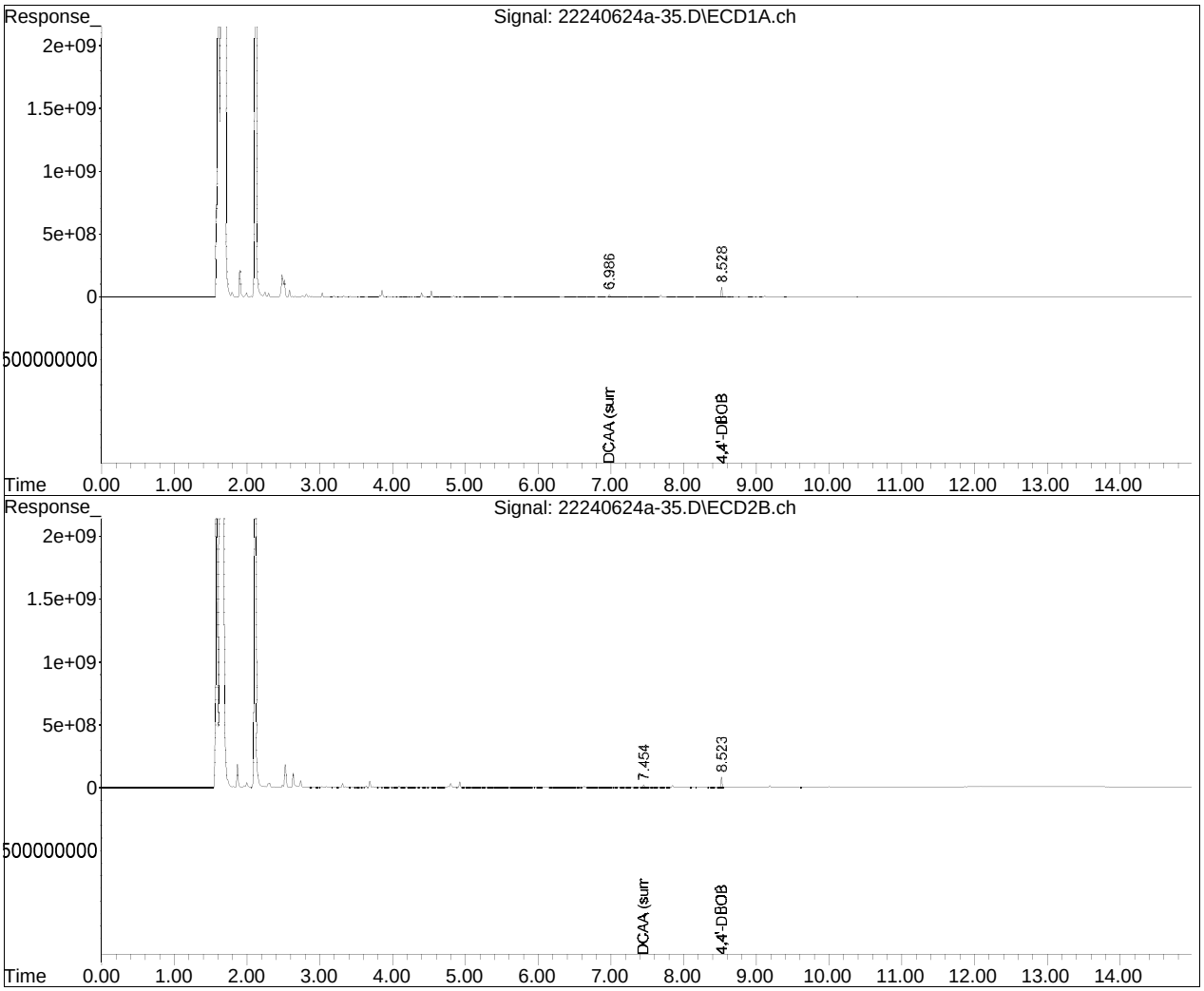
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listeda\22240624a-20.D•

Data Path : I:\PEST\Pest22\2024\240624a\
Data File : 22240624a-35.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 24 Jun 2024 23:32
Operator : pest22:jag
Sample : L2434679-02,42,,
Misc : wg1938492,WG1938239,ical21040
ALS Vial : 35 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 25 06:47:58 2024
Quant Method : I:\PEST\Pest22\2024\240624a\Herb22_2024_04_12_mgL_ICAL21040.m
Quant Title : herb
QLast Update : Sun Jun 23 09:11:26 2024
Response via : Initial Calibration
Integrator: ChemStation

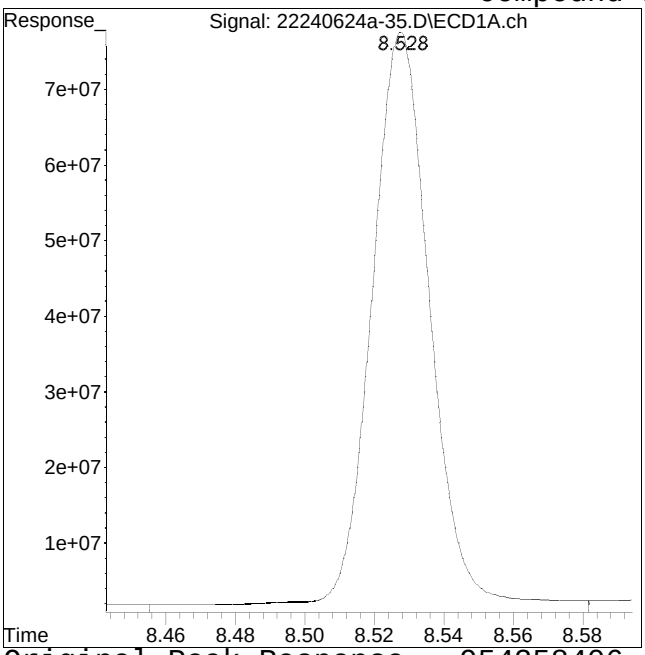
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

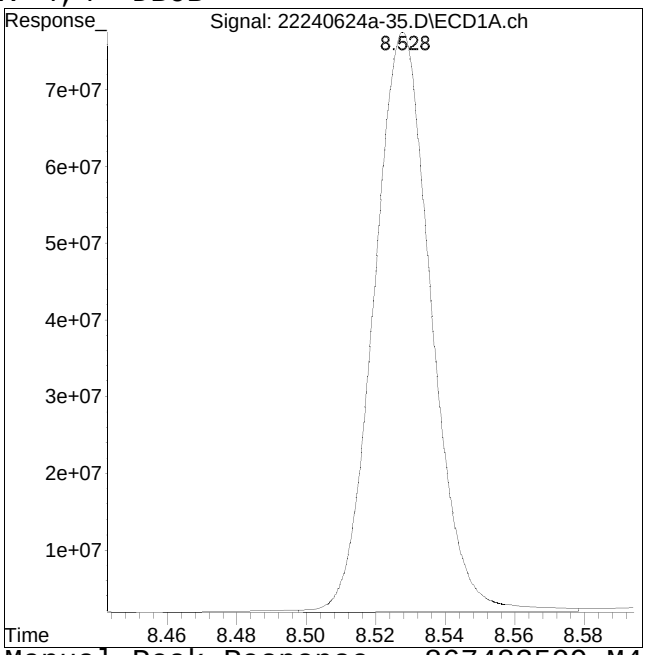


Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240624QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240624a-35.D Operator : pest22:jag
Date Inj'd : 6/24/2024 23:32 Instrument : Pest22
Sample : L2434679-02,42,, Quant Date : 6/25/2024 6:47 am

Compound #1: 4,4'-DBOB



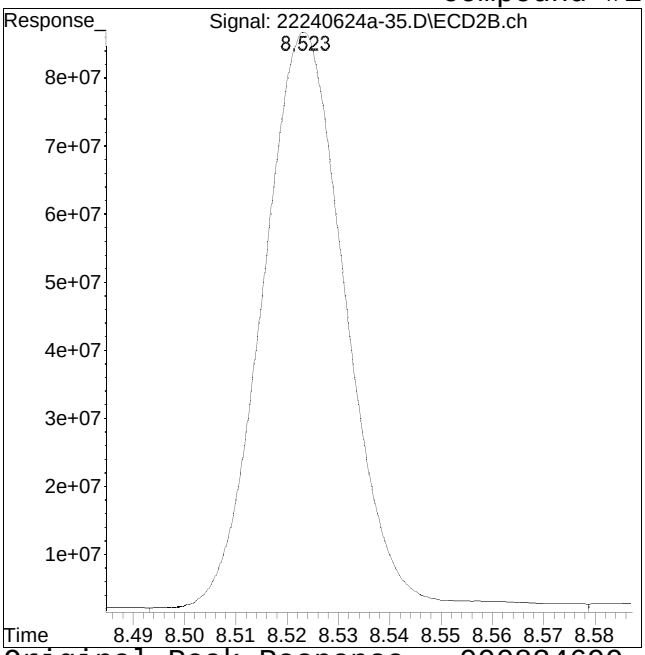


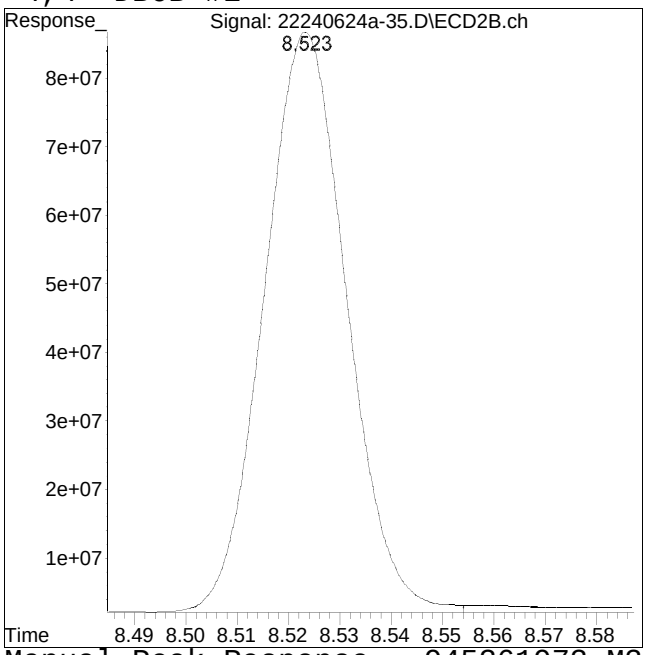
Original Peak Response = 954358406 Manual Peak Response = 867483599 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240624QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240624a-35.D Operator : pest22:jag
Date Inj'd : 6/24/2024 23:32 Instrument : Pest22
Sample : L2434679-02,42,, Quant Date : 6/25/2024 6:47 am

Compound #14: 4,4'-DBOB #2



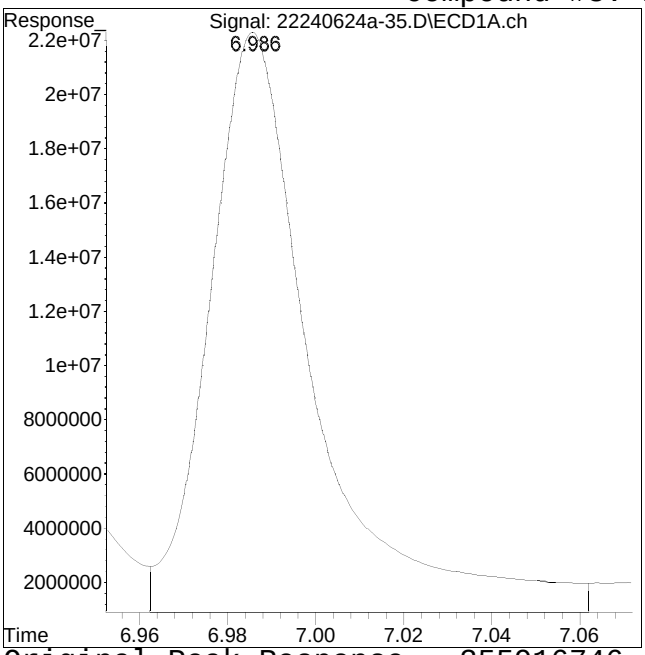


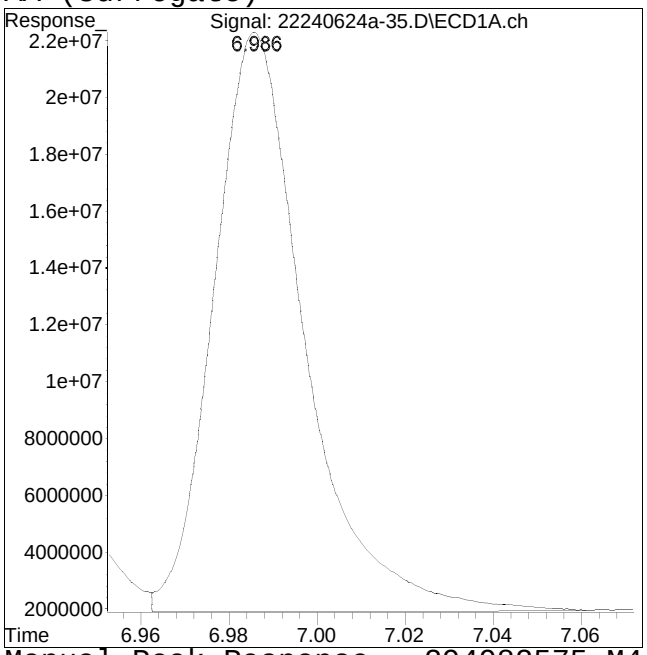
Original Peak Response = 990834699 Manual Peak Response = 945361973 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240624QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240624a-35.D Operator : pest22:jag
Date Inj'd : 6/24/2024 23:32 Instrument : Pest22
Sample : L2434679-02,42,, Quant Date : 6/25/2024 6:47 am

Compound #3: DCAA (surrogate)



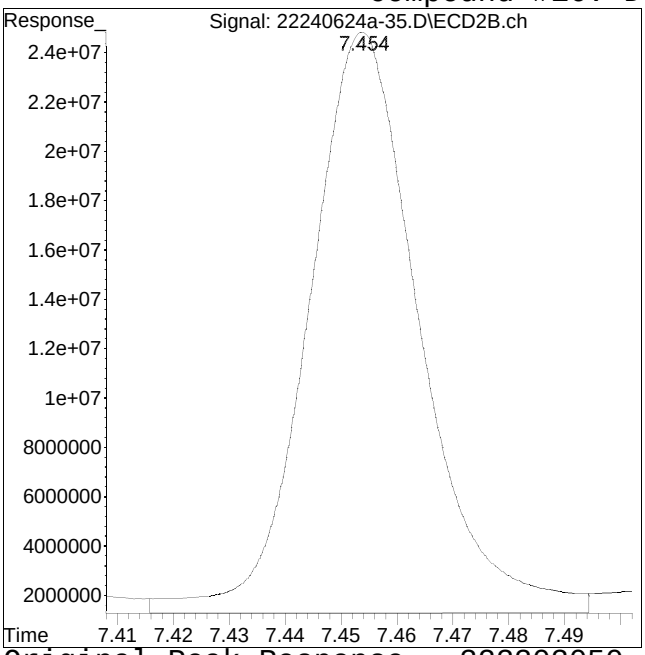


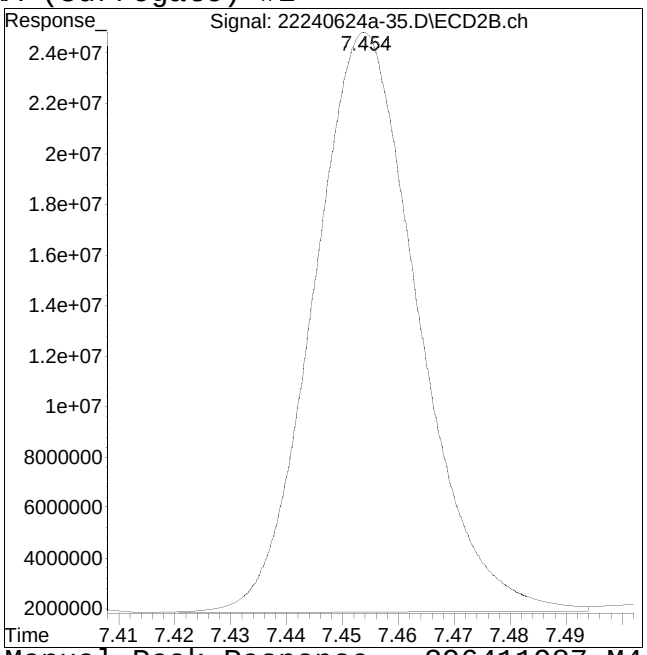
Original Peak Response = 355916746 Manual Peak Response = 294982575 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240624QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240624a-35.D Operator : pest22:jag
Date Inj'd : 6/24/2024 23:32 Instrument : Pest22
Sample : L2434679-02,42,, Quant Date : 6/25/2024 6:47 am

Compound #16: DCAA (surrogate) #2





Original Peak Response = 323303050 Manual Peak Response = 296411987 M4
M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest22\2024\240624a\
Data File : 22240624a-37.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 25 Jun 2024 00:09
Operator : pest22:jag
Sample : L2434679-04,42,,
Misc : wg1938492,WG1938239,ical21040
ALS Vial : 37 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 25 06:48:41 2024
Quant Method : I:\PEST\Pest22\2024\240624a\Herb22_2024_04_12_mgL_ICAL21040.m
Quant Title : herb
QLast Update : Sun Jun 23 09:11:26 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PEST\Pest22\2024\240624a\22240624a-36.D
Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	mg/l	mg/l
Internal Standards						
1) i 4,4'-DBOB	8.528	8.523	895.8E6	972.3E6	0.250M3	0.250M3
Standard Area 1 : #1 = 921040679			Recovery = 97.26%			
Standard Area 1 : #2 = 1001798454			Recovery = 97.06%			
System Monitoring Compounds						
3) s DCAA (surrog	6.985	7.454	298.0E6	294.0E6	0.404M4	0.373M4
Spiked Amount 0.500	Range 30 - 150		Recovery = 80.80%		74.60%	
Target Compounds						
8) t 2,4-D	0.000	0.000	0	0	N.D. d	N.D. d
9) t 2,4,5-TP (Si	0.000	0.000	0	0	N.D. d	N.D. d
10) t 2,4,5-T	0.000	0.000	0	0	N.D. d	N.D. d
SemiQuant Compounds - Not Calibrated on this Instrument						

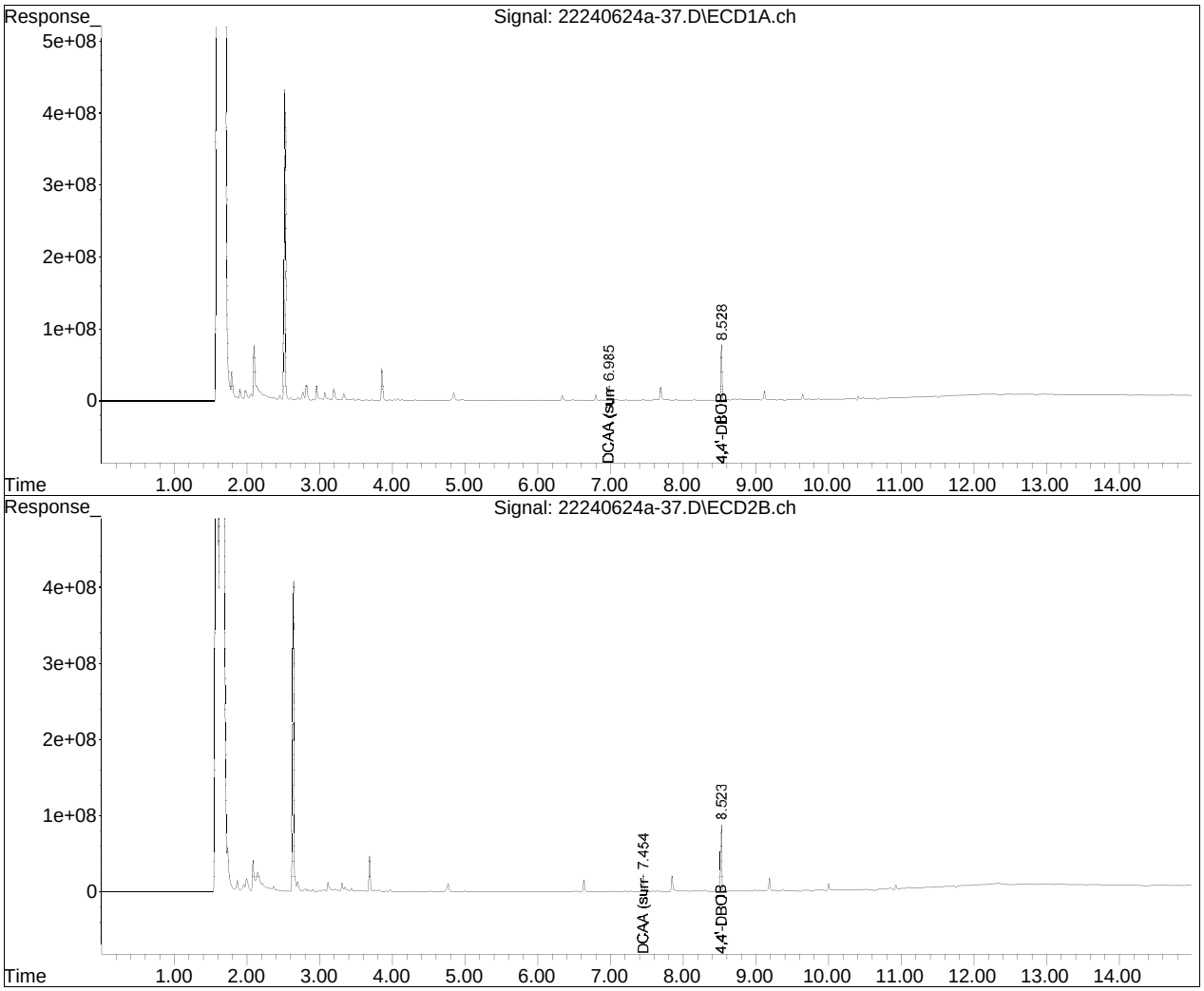
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listeda\22240624a-36.D•

Data Path : I:\PEST\Pest22\2024\240624a\
Data File : 22240624a-37.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 25 Jun 2024 00:09
Operator : pest22:jag
Sample : L2434679-04,42,,
Misc : wg1938492,WG1938239,ical21040
ALS Vial : 37 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 25 06:48:41 2024
Quant Method : I:\PEST\Pest22\2024\240624a\Herb22_2024_04_12_mgL_ICAL21040.m
Quant Title : herb
QLast Update : Sun Jun 23 09:11:26 2024
Response via : Initial Calibration
Integrator: ChemStation

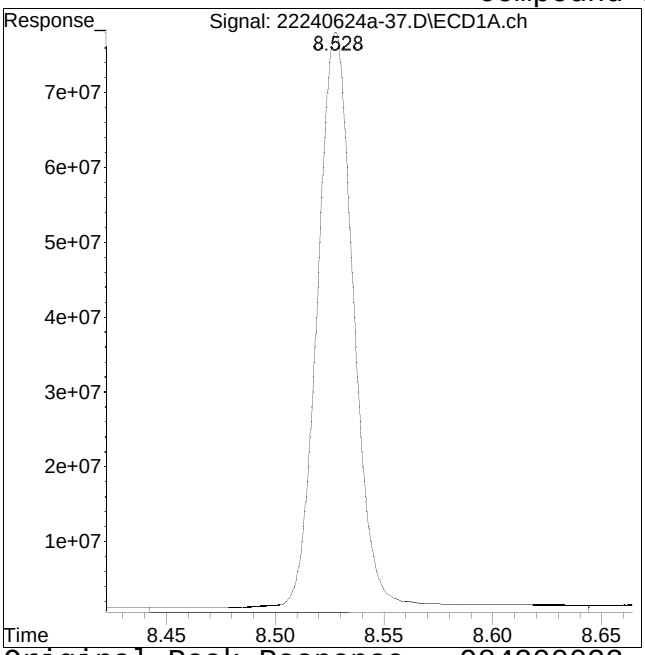
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

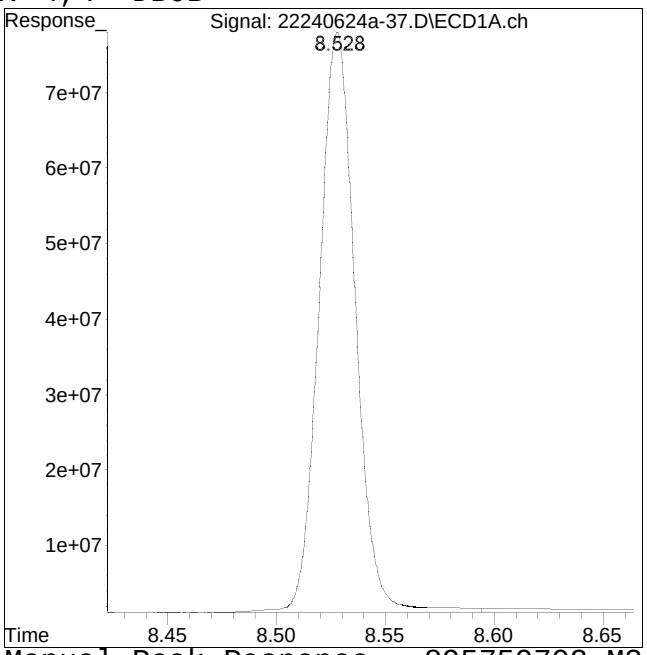


Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240624QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240624a-37.D Operator : pest22:jag
Date Inj'd : 6/25/2024 0:09 Instrument : Pest22
Sample : L2434679-04,42,, Quant Date : 6/25/2024 6:48 am

Compound #1: 4,4'-DBOB



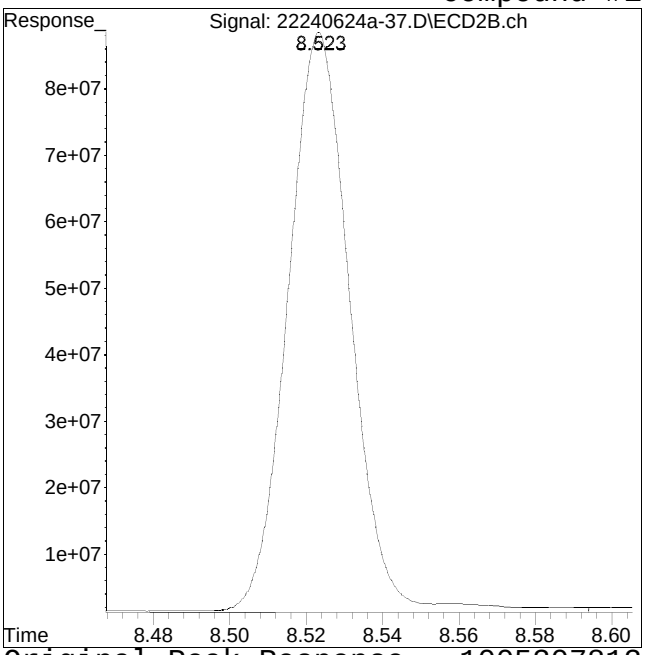


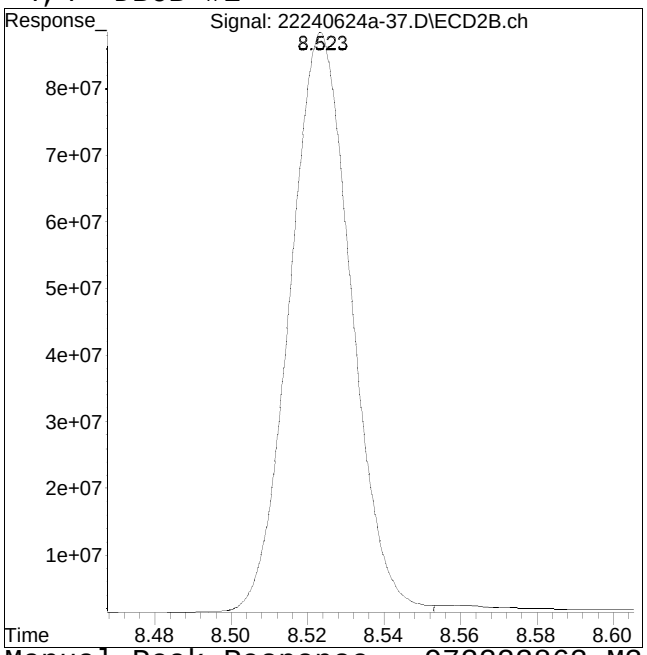
Original Peak Response = 984200033 Manual Peak Response = 895759792 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240624QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240624a-37.D Operator : pest22:jag
Date Inj'd : 6/25/2024 0:09 Instrument : Pest22
Sample : L2434679-04,42,, Quant Date : 6/25/2024 6:48 am

Compound #14: 4,4'-DBOB #2



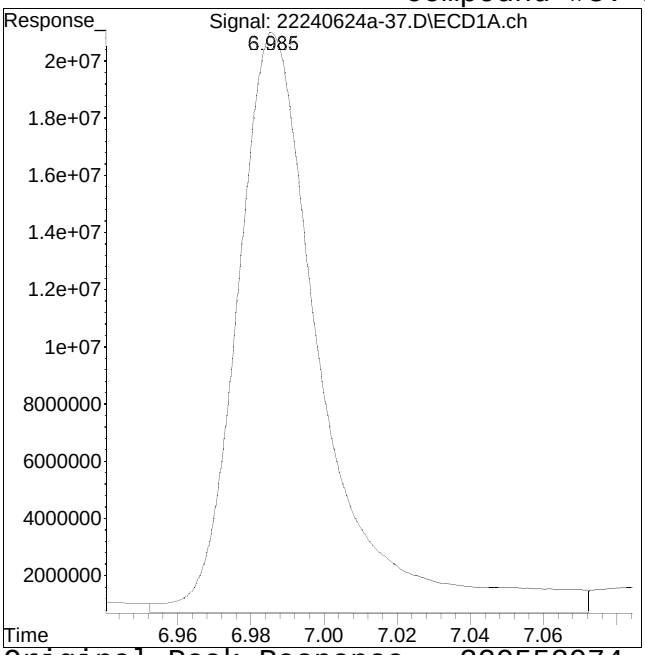


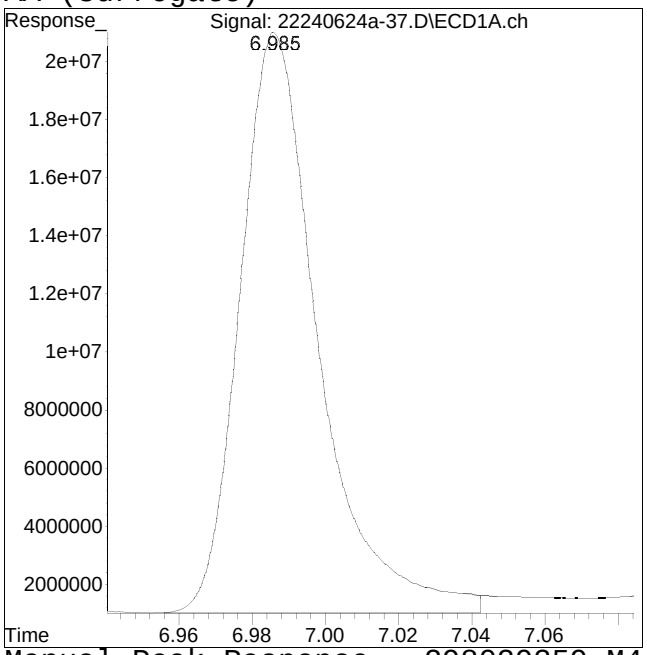
Original Peak Response = 1005307813 Manual Peak Response = 972323863 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240624QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240624a-37.D Operator : pest22:jag
Date Inj'd : 6/25/2024 0:09 Instrument : Pest22
Sample : L2434679-04,42,, Quant Date : 6/25/2024 6:48 am

Compound #3: DCAA (surrogate)



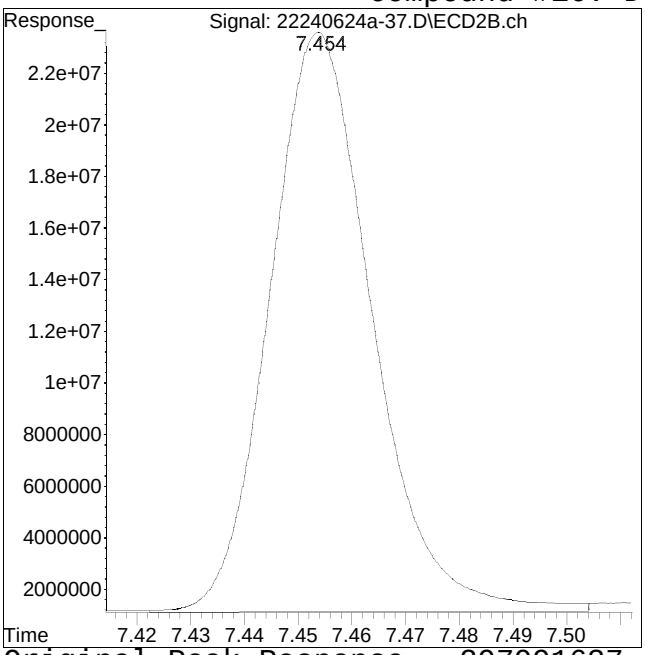


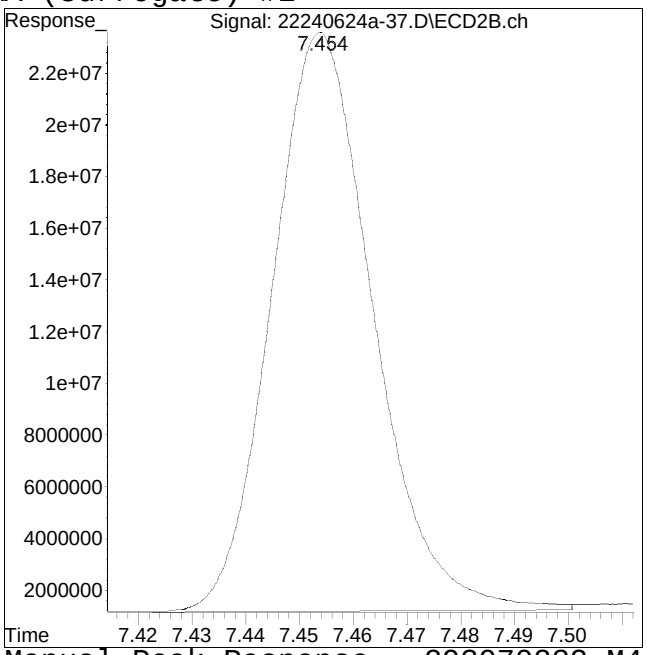
Original Peak Response = 329552974 Manual Peak Response = 298029359 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240624QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240624a-37.D Operator : pest22:jag
Date Inj'd : 6/25/2024 0:09 Instrument : Pest22
Sample : L2434679-04,42,, Quant Date : 6/25/2024 6:48 am

Compound #16: DCAA (surrogate) #2





Original Peak Response = 297991637 Manual Peak Response = 293970232 M4
M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest22\2024\240624a\
Data File : 22240624a-38.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 25 Jun 2024 00:27
Operator : pest22:jag
Sample : L2434679-05,42,,
Misc : wg1938492,WG1938239,ical21040
ALS Vial : 38 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 25 06:48:55 2024
Quant Method : I:\PEST\Pest22\2024\240624a\Herb22_2024_04_12_mgL_ICAL21040.m
Quant Title : herb
QLast Update : Sun Jun 23 09:11:26 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PEST\Pest22\2024\240624a\22240624a-36.D
Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	mg/l	mg/l
Internal Standards						
1) i 4,4'-DBOB	8.528	8.523	895.6E6	995.1E6	0.250M3	0.250M2
Standard Area 1 : #1 = 921040679				Recovery =	97.24%	
Standard Area 1 : #2 = 1001798454				Recovery =	99.33%	
System Monitoring Compounds						
3) s DCAA (surrog	6.986	7.453	268.7E6	266.0E6	0.365M4	0.330M4
Spiked Amount	0.500	Range 30 - 150		Recovery =	73.00%	66.00%
Target Compounds						
8) t 2,4-D	0.000	0.000	0	0	N.D. d	N.D. d
9) t 2,4,5-TP (Si	0.000	0.000	0	0	N.D. d	N.D. d
10) t 2,4,5-T	0.000	0.000	0	0	N.D. d	N.D. d
SemiQuant Compounds - Not Calibrated on this Instrument						

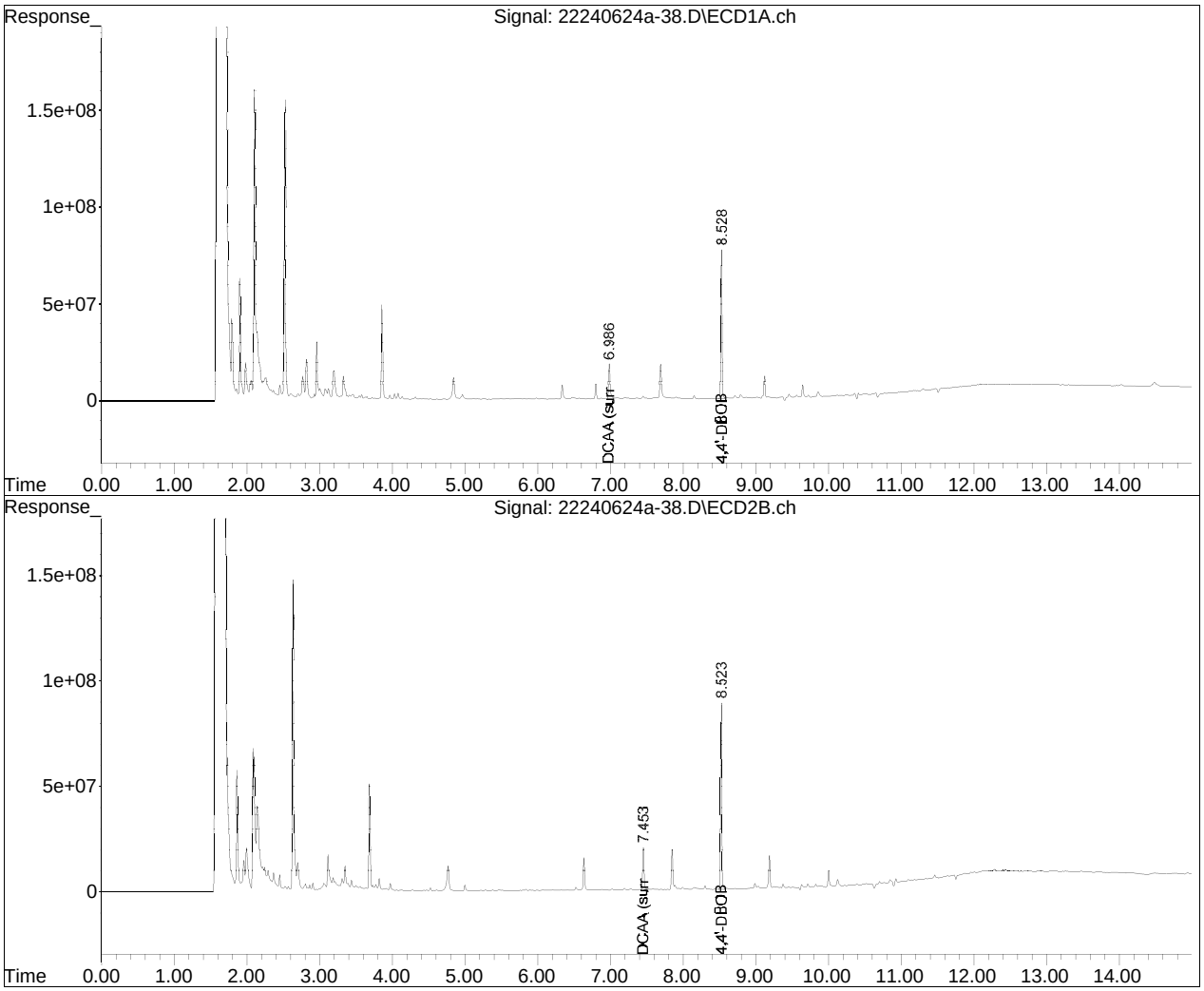
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listeda\22240624a-36.D•

Data Path : I:\PEST\Pest22\2024\240624a\
Data File : 22240624a-38.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 25 Jun 2024 00:27
Operator : pest22:jag
Sample : L2434679-05,42,,
Misc : wg1938492,WG1938239,ical21040
ALS Vial : 38 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 25 06:48:55 2024
Quant Method : I:\PEST\Pest22\2024\240624a\Herb22_2024_04_12_mgL_ICAL21040.m
Quant Title : herb
QLast Update : Sun Jun 23 09:11:26 2024
Response via : Initial Calibration
Integrator: ChemStation

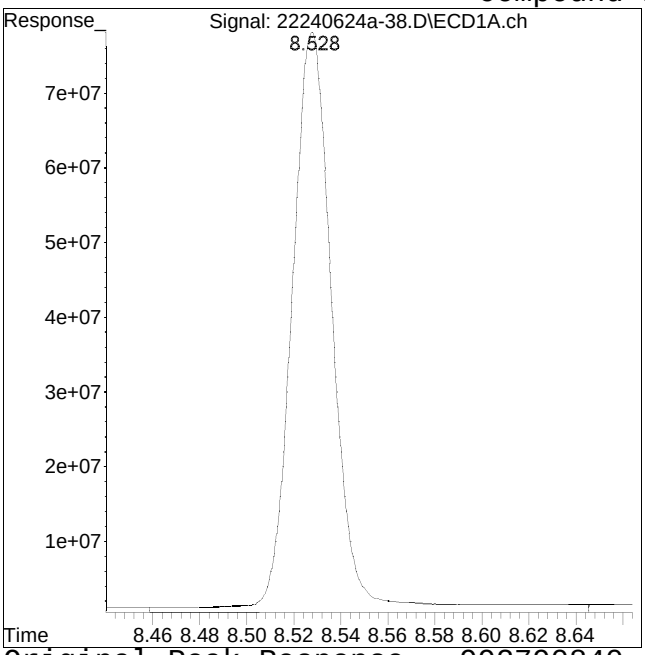
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

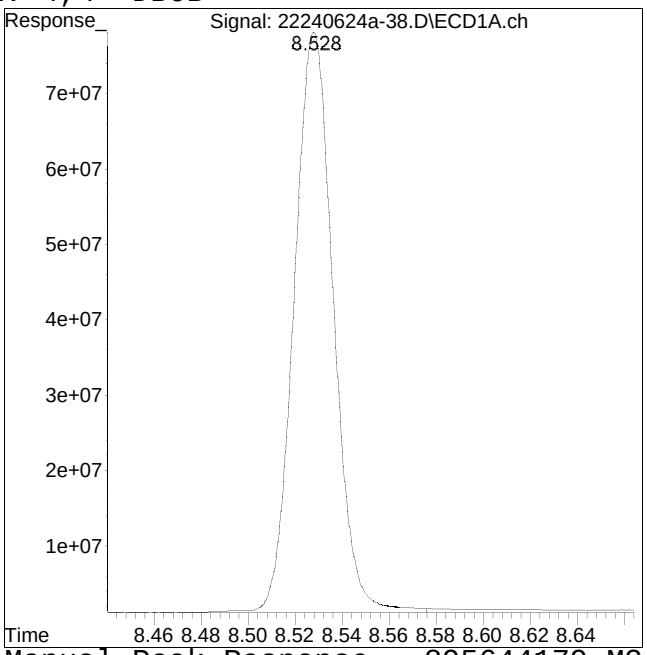


Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240624QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240624a-38.D Operator : pest22:jag
Date Inj'd : 6/25/2024 0:27 Instrument : Pest22
Sample : L2434679-05,42,, Quant Date : 6/25/2024 6:48 am

Compound #1: 4,4'-DBOB



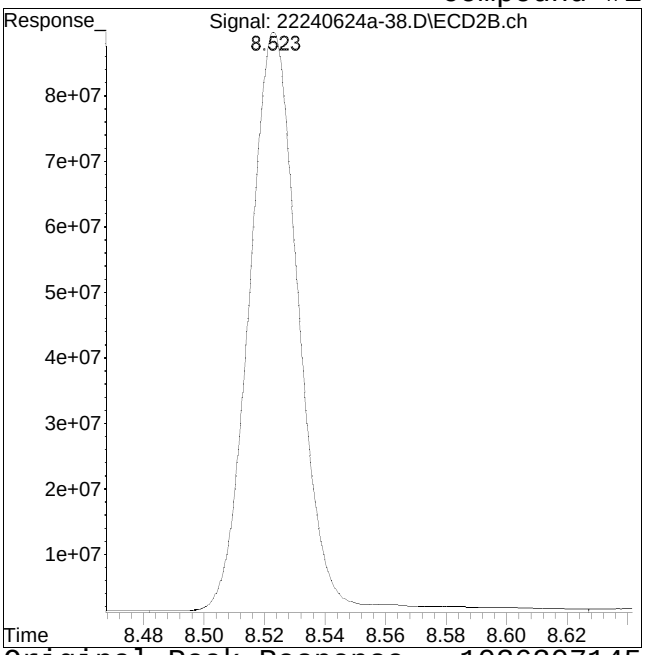


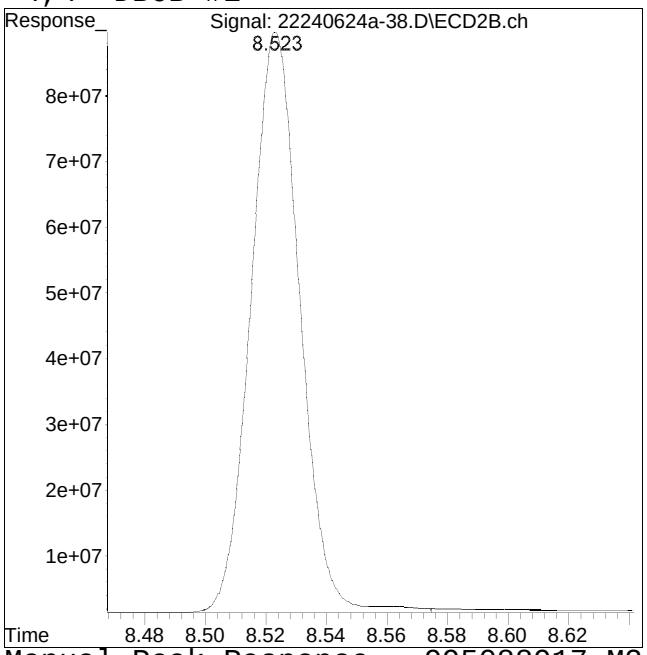
Original Peak Response = 992790840 Manual Peak Response = 895644179 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240624QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240624a-38.D Operator : pest22:jag
Date Inj'd : 6/25/2024 0:27 Instrument : Pest22
Sample : L2434679-05,42,, Quant Date : 6/25/2024 6:48 am

Compound #14: 4,4'-DBOB #2



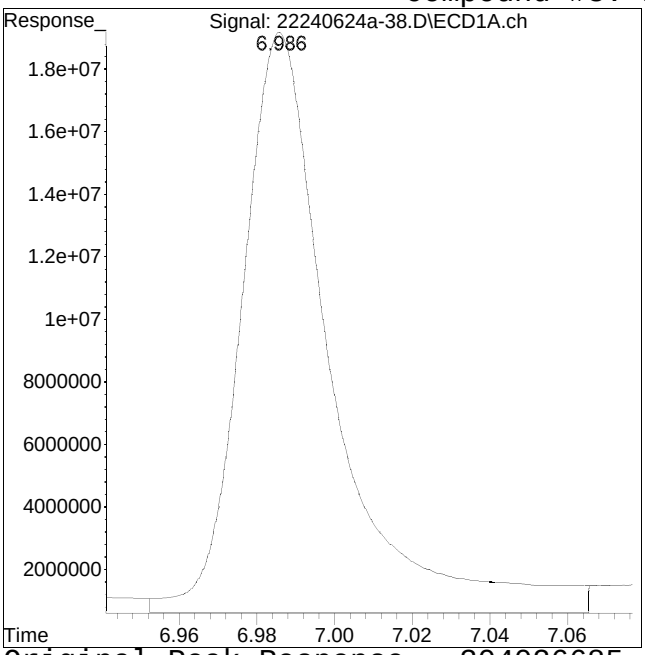


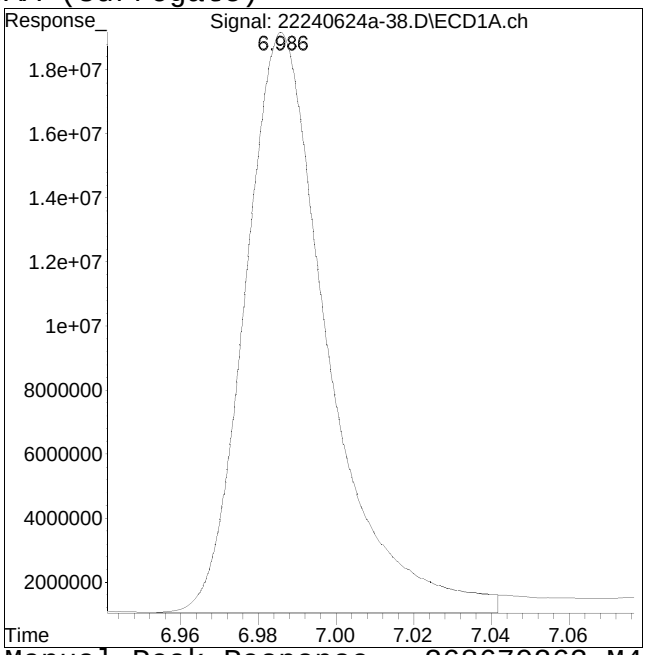
Original Peak Response = 1036307145 Manual Peak Response = 995088917 M2
M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240624QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240624a-38.D Operator : pest22:jag
Date Inj'd : 6/25/2024 0:27 Instrument : Pest22
Sample : L2434679-05,42,, Quant Date : 6/25/2024 6:48 am

Compound #3: DCAA (surrogate)



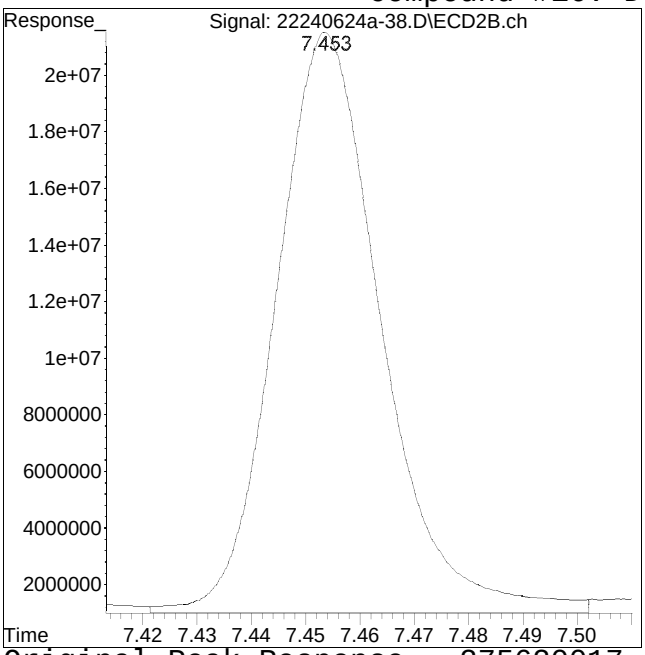


Original Peak Response = 304026685 Manual Peak Response = 268670263 M4
M4 = Poor automated baseline construction.

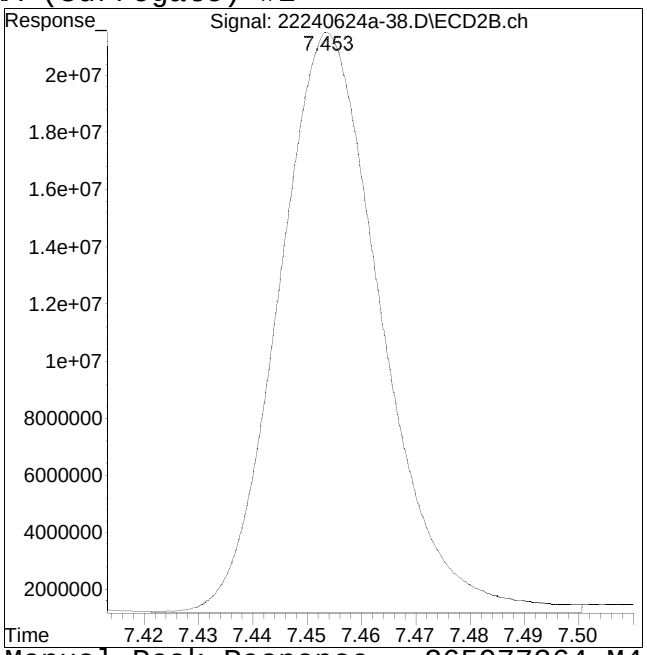
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240624QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240624a-38.D Operator : pest22:jag
Date Inj'd : 6/25/2024 0:27 Instrument : Pest22
Sample : L2434679-05,42,, Quant Date : 6/25/2024 6:48 am

Compound #16: DCAA (surrogate) #2



Original Peak Response = 275620017



Manual Peak Response = 265977364 M4

M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest22\2024\240624a\
Data File : 22240624a-39.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 25 Jun 2024 00:45
Operator : pest22:jag
Sample : L2434679-06,42,,
Misc : wg1938492,WG1938239,ical21040
ALS Vial : 39 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 25 06:48:56 2024
Quant Method : I:\PEST\Pest22\2024\240624a\Herb22_2024_04_12_mgL_ICAL21040.m
Quant Title : herb
QLast Update : Sun Jun 23 09:11:26 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PEST\Pest22\2024\240624a\22240624a-36.D
Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	mg/l	mg/l
Internal Standards						
1) i 4,4'-DBOB	8.527	8.523	888.0E6	964.3E6	0.250M4	0.250M3
Standard Area 1 : #1 = 921040679				Recovery =	96.41%	
Standard Area 1 : #2 = 1001798454				Recovery =	96.26%	
System Monitoring Compounds						
3) s DCAA (surrog	6.985	7.454	252.4E6	249.8E6	0.345M4	0.320M4
Spiked Amount	0.500	Range 30 - 150		Recovery =	69.00%	64.00%
Target Compounds						
8) t 2,4-D	0.000	0.000	0	0	N.D. d	N.D. d
9) t 2,4,5-TP (Si	0.000	0.000	0	0	N.D. d	N.D. d
10) t 2,4,5-T	0.000	0.000	0	0	N.D. d	N.D. d
SemiQuant Compounds - Not Calibrated on this Instrument						

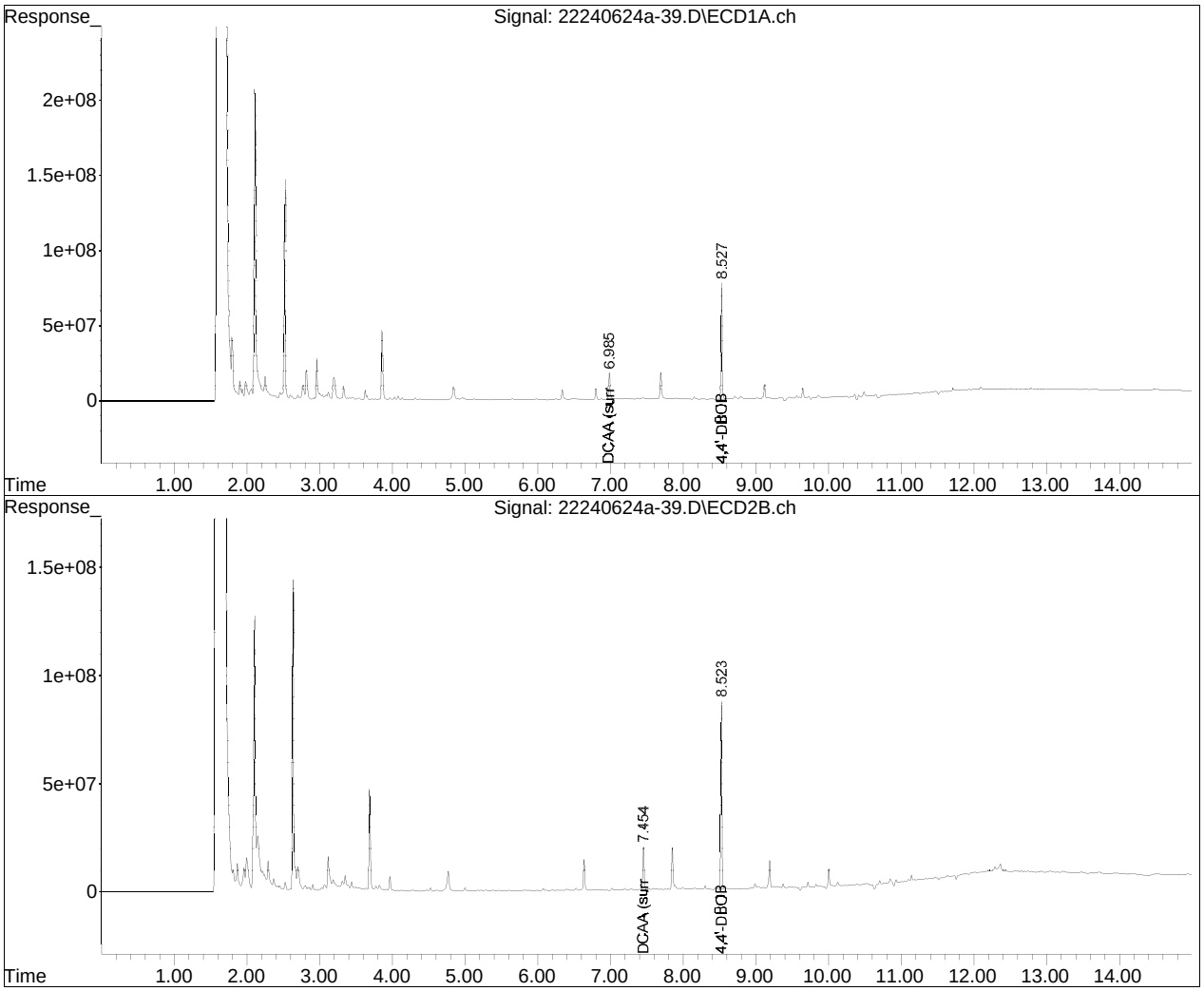
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listeda\22240624a-36.D•

Data Path : I:\PEST\Pest22\2024\240624a\
Data File : 22240624a-39.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 25 Jun 2024 00:45
Operator : pest22:jag
Sample : L2434679-06,42,,
Misc : wg1938492,WG1938239,ical21040
ALS Vial : 39 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 25 06:48:56 2024
Quant Method : I:\PEST\Pest22\2024\240624a\Herb22_2024_04_12_mgL_ICAL21040.m
Quant Title : herb
QLast Update : Sun Jun 23 09:11:26 2024
Response via : Initial Calibration
Integrator: ChemStation

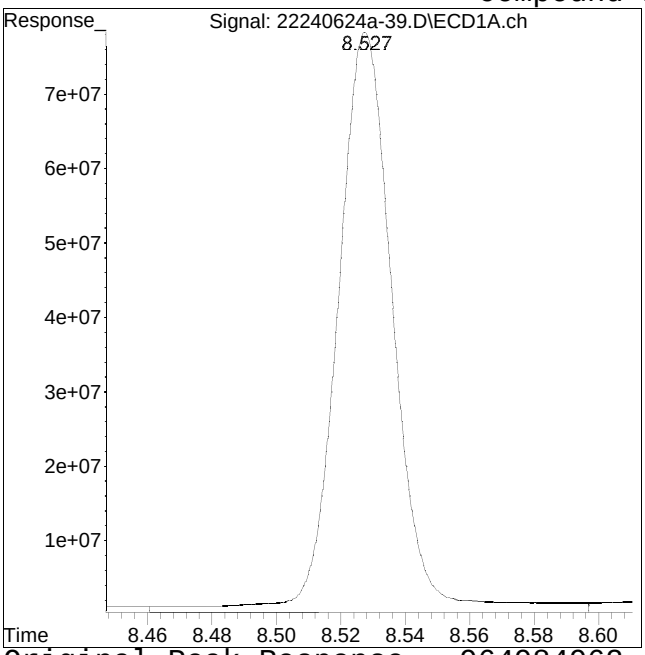
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

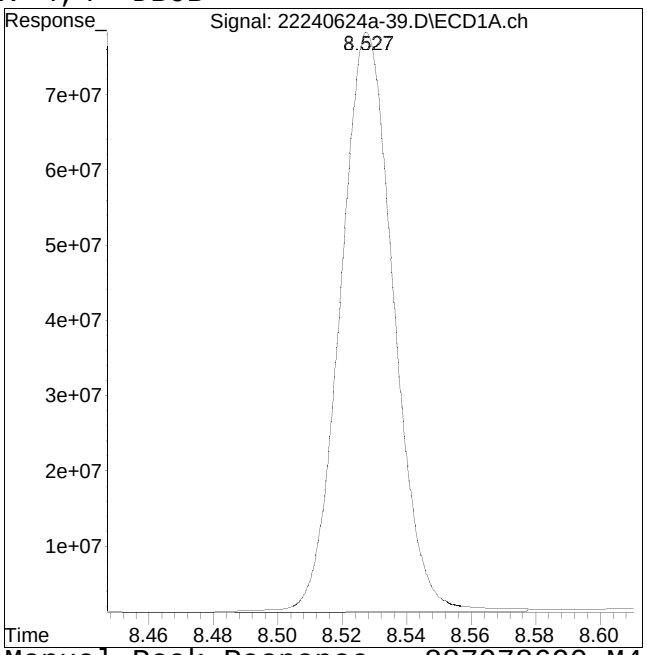


Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240624QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240624a-39.D Operator : pest22:jag
Date Inj'd : 6/25/2024 0:45 Instrument : Pest22
Sample : L2434679-06,42,, Quant Date : 6/25/2024 6:48 am

Compound #1: 4,4'-DBOB



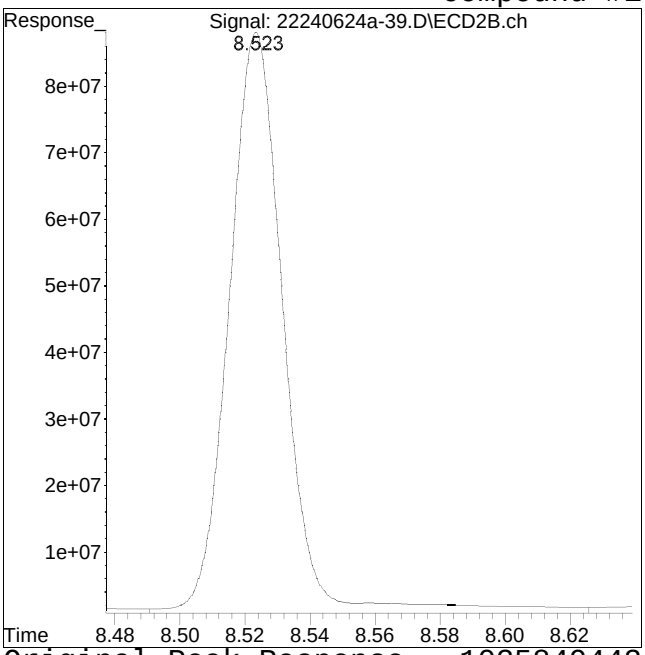


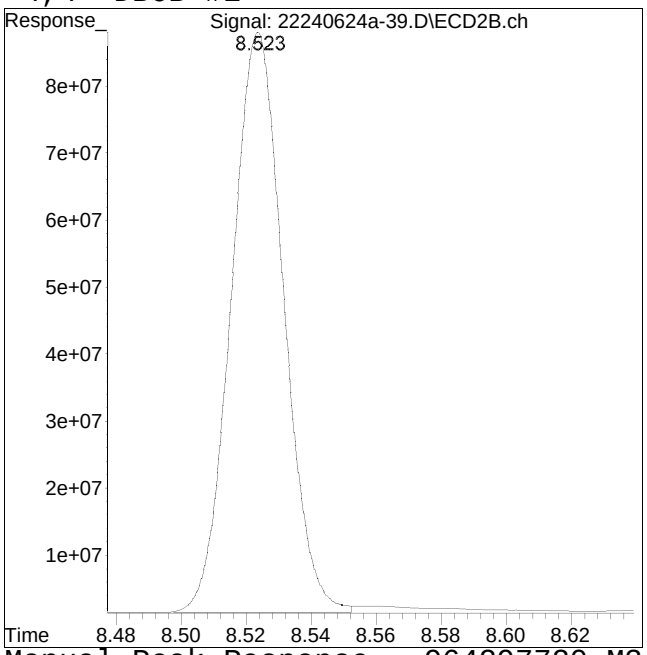
Original Peak Response = 964984962 Manual Peak Response = 887978690 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240624QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240624a-39.D Operator : pest22:jag
Date Inj'd : 6/25/2024 0:45 Instrument : Pest22
Sample : L2434679-06,42,, Quant Date : 6/25/2024 6:48 am

Compound #14: 4,4'-DBOB #2



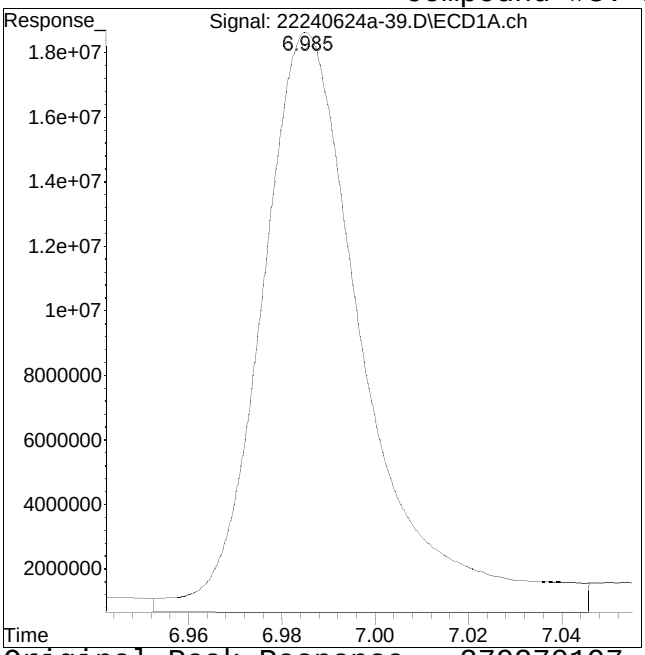


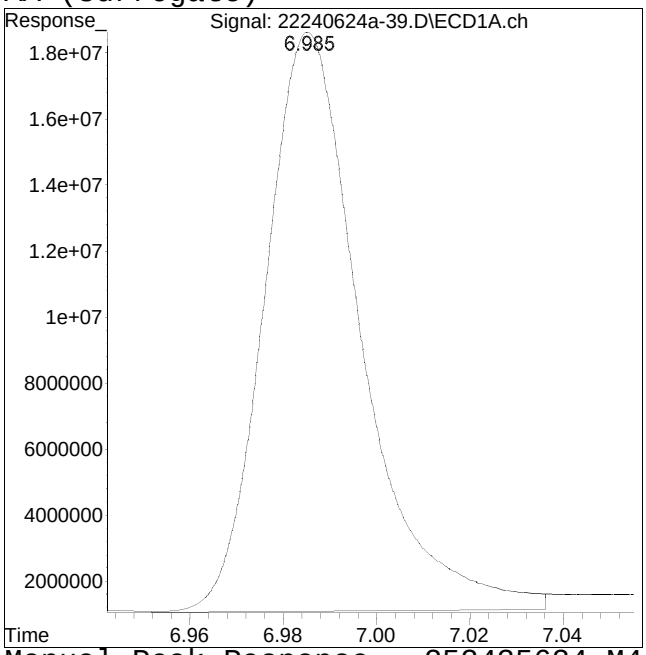
Original Peak Response = 1035849443 Manual Peak Response = 964297720 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240624QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240624a-39.D Operator : pest22:jag
Date Inj'd : 6/25/2024 0:45 Instrument : Pest22
Sample : L2434679-06,42,, Quant Date : 6/25/2024 6:48 am

Compound #3: DCAA (surrogate)



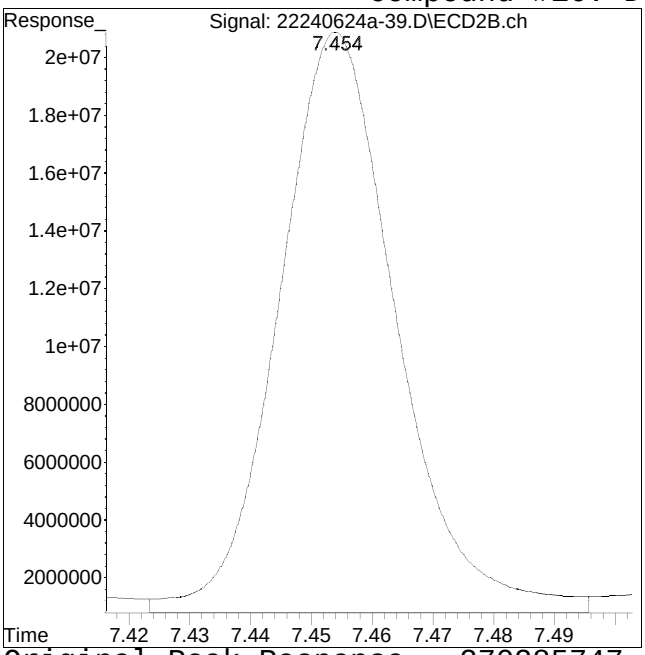


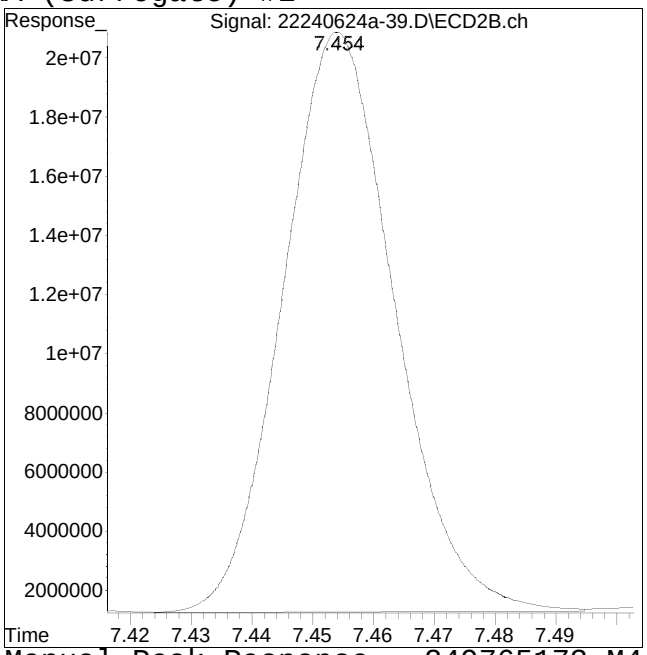
Original Peak Response = 279270197 Manual Peak Response = 252435624 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240624QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240624a-39.D Operator : pest22:jag
Date Inj'd : 6/25/2024 0:45 Instrument : Pest22
Sample : L2434679-06,42,, Quant Date : 6/25/2024 6:48 am

Compound #16: DCAA (surrogate) #2





Original Peak Response = 270285747 Manual Peak Response = 249765173 M4
M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest22\2024\240624a\
Data File : 22240624a-40.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 25 Jun 2024 01:04
Operator : pest22:jag
Sample : L2434679-07,42,,
Misc : wg1938492,WG1938239,ical21040
ALS Vial : 40 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 25 06:48:58 2024
Quant Method : I:\PEST\Pest22\2024\240624a\Herb22_2024_04_12_mgL_ICAL21040.m
Quant Title : herb
QLast Update : Sun Jun 23 09:11:26 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PEST\Pest22\2024\240624a\22240624a-36.D
Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	mg/l	mg/l
Internal Standards						
1) i 4,4'-DBOB	8.527	8.523	873.7E6	972.0E6	0.250M4	0.250M3
Standard Area 1 : #1 = 921040679			Recovery = 94.86%			
Standard Area 1 : #2 = 1001798454			Recovery = 97.02%			
System Monitoring Compounds						
3) s DCAA (surrog	6.986	7.454	269.8E6	264.4E6	0.375M4	0.336M4
Spiked Amount 0.500	Range 30 - 150		Recovery = 75.00%		67.20%	
Target Compounds						
8) t 2,4-D	0.000	0.000	0	0	N.D. d	N.D. d
9) t 2,4,5-TP (Si	0.000	0.000	0	0	N.D. d	N.D. d
10) t 2,4,5-T	0.000	0.000	0	0	N.D. d	N.D. d
SemiQuant Compounds - Not Calibrated on this Instrument						

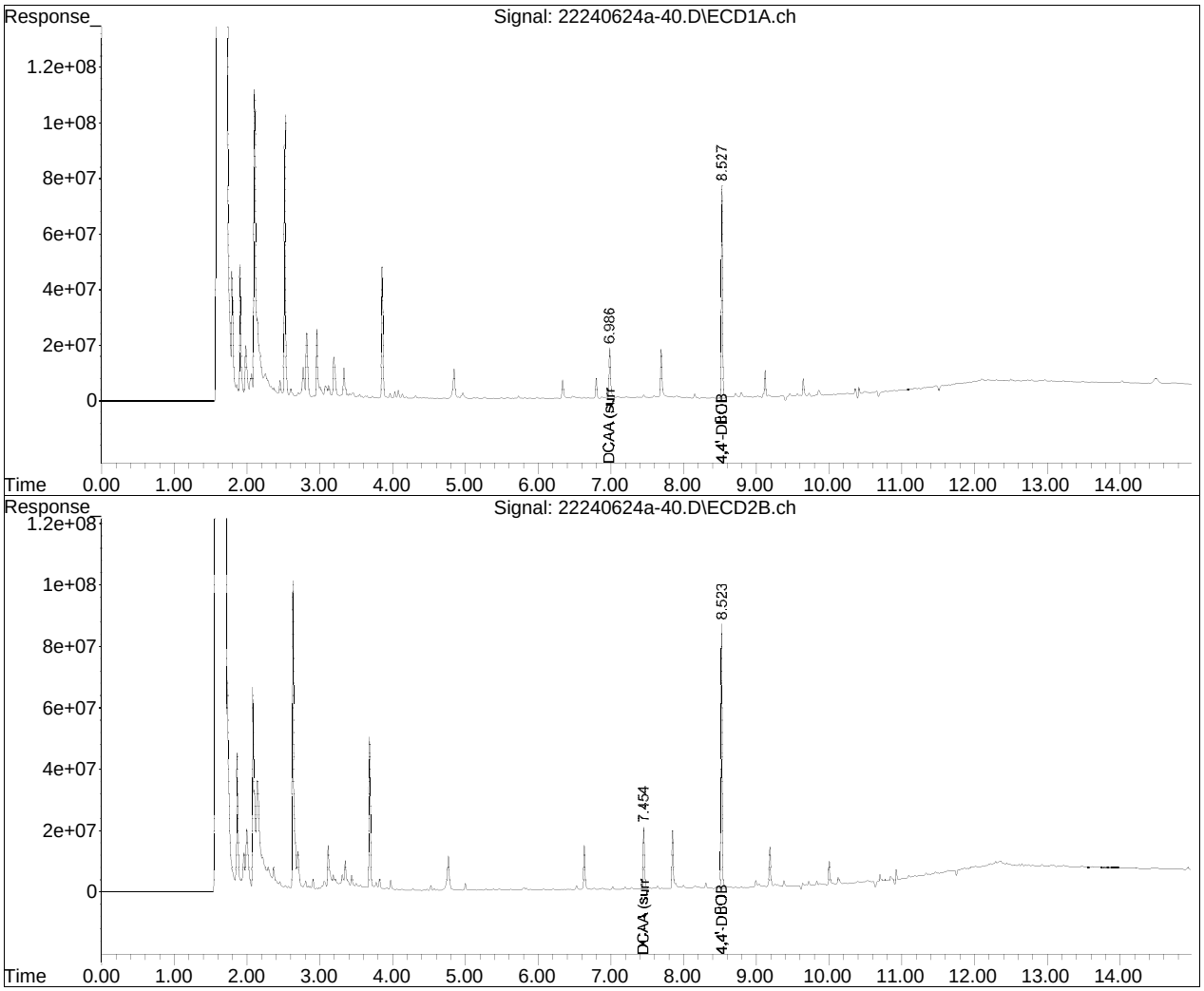
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listeda\22240624a-36.D•

Data Path : I:\PEST\Pest22\2024\240624a\
Data File : 22240624a-40.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 25 Jun 2024 01:04
Operator : pest22:jag
Sample : L2434679-07,42,,
Misc : wg1938492,WG1938239,ical21040
ALS Vial : 40 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 25 06:48:58 2024
Quant Method : I:\PEST\Pest22\2024\240624a\Herb22_2024_04_12_mgL_ICAL21040.m
Quant Title : herb
QLast Update : Sun Jun 23 09:11:26 2024
Response via : Initial Calibration
Integrator: ChemStation

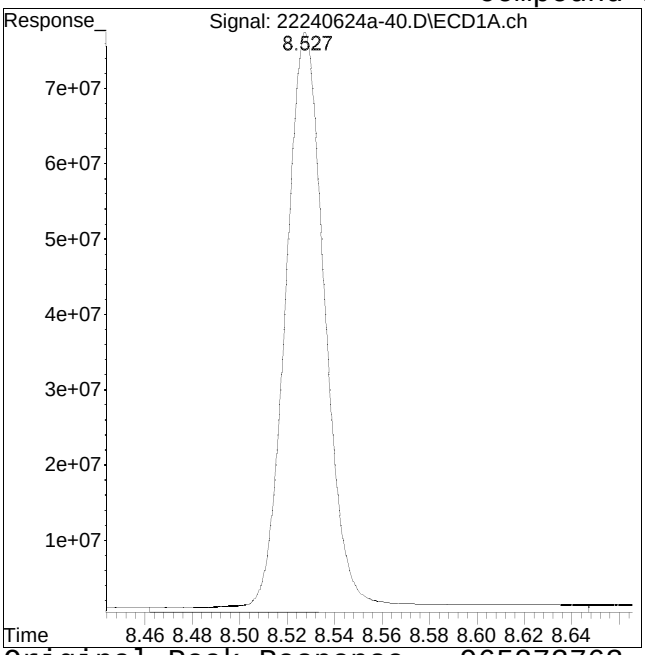
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

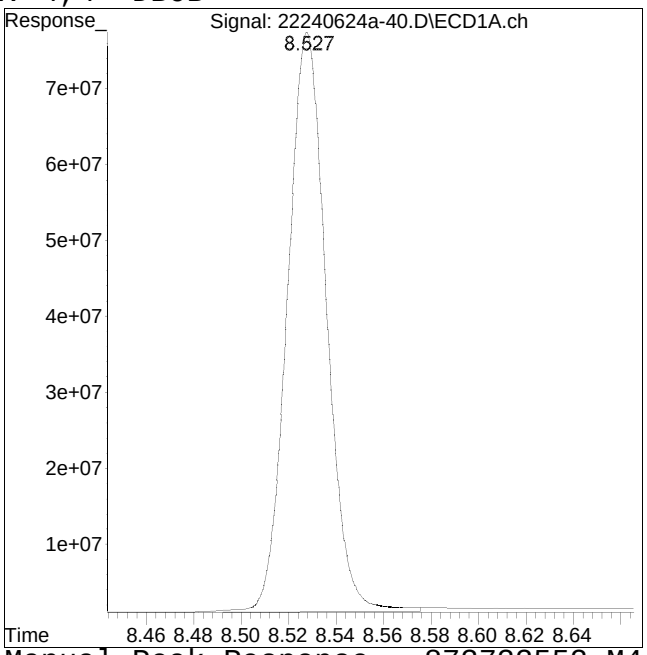


Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240624QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240624a-40.D Operator : pest22:jag
Date Inj'd : 6/25/2024 1:04 Instrument : Pest22
Sample : L2434679-07,42,, Quant Date : 6/25/2024 6:48 am

Compound #1: 4,4'-DBOB



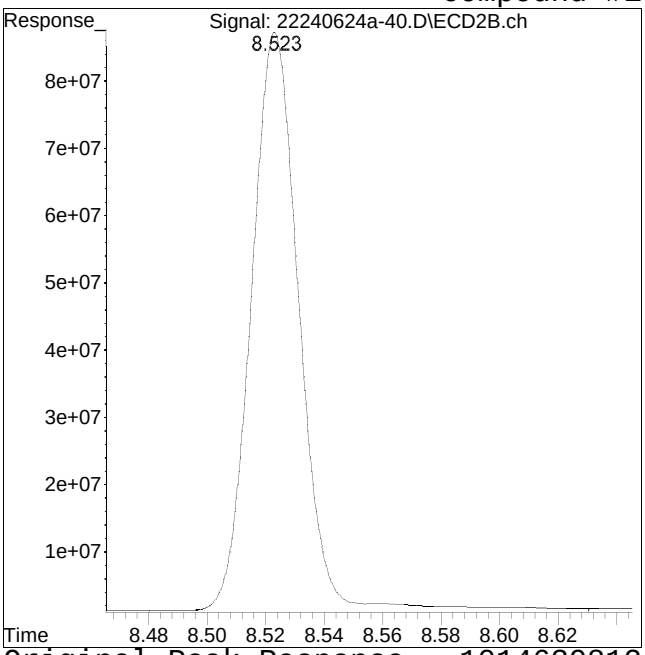


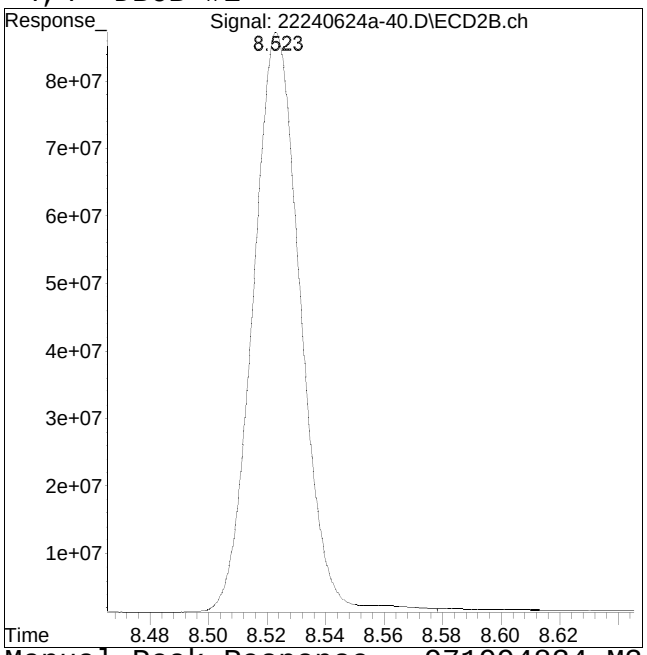
Original Peak Response = 965273763 Manual Peak Response = 873733552 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240624QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240624a-40.D Operator : pest22:jag
Date Inj'd : 6/25/2024 1:04 Instrument : Pest22
Sample : L2434679-07,42,, Quant Date : 6/25/2024 6:48 am

Compound #14: 4,4'-DBOB #2



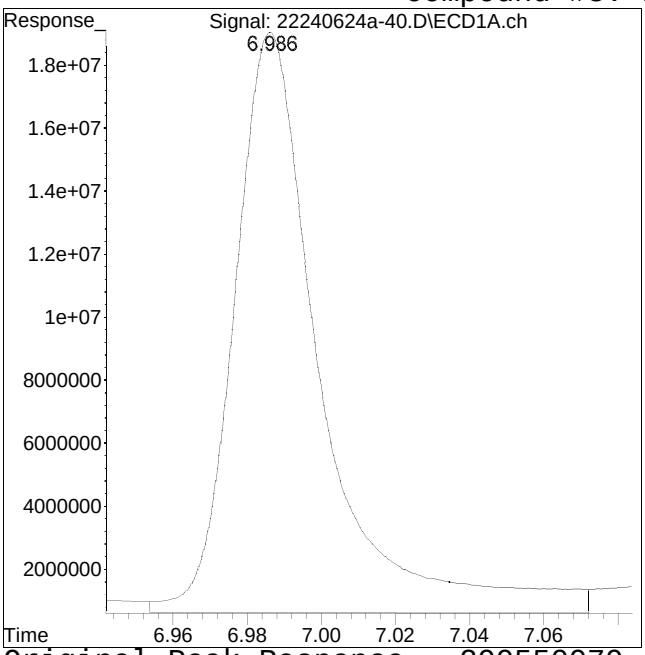


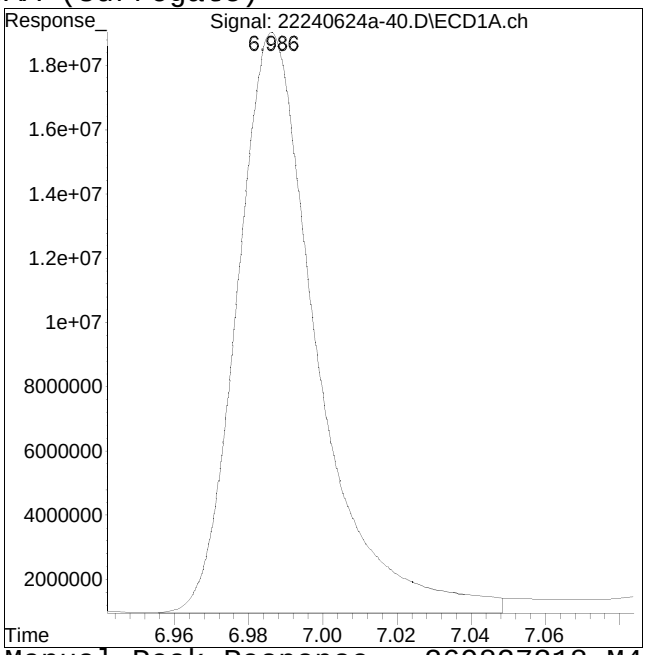
Original Peak Response = 1014639812 Manual Peak Response = 971994834 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240624QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240624a-40.D Operator : pest22:jag
Date Inj'd : 6/25/2024 1:04 Instrument : Pest22
Sample : L2434679-07,42,, Quant Date : 6/25/2024 6:48 am

Compound #3: DCAA (surrogate)



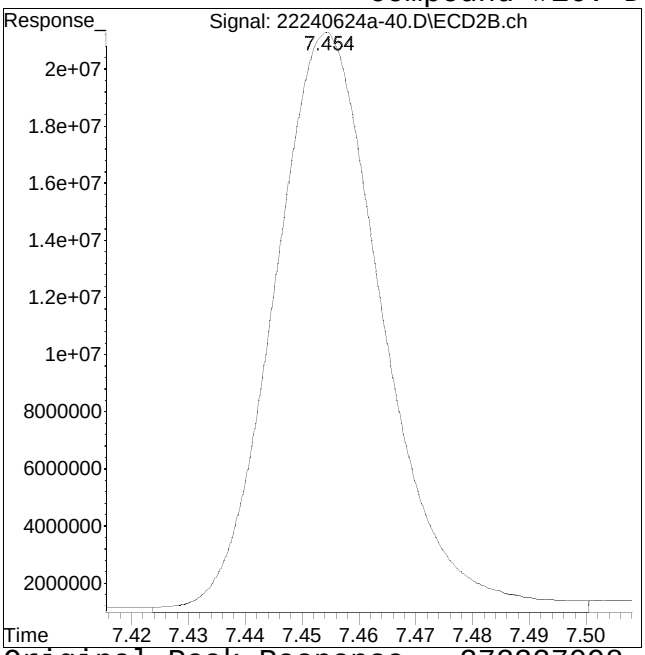


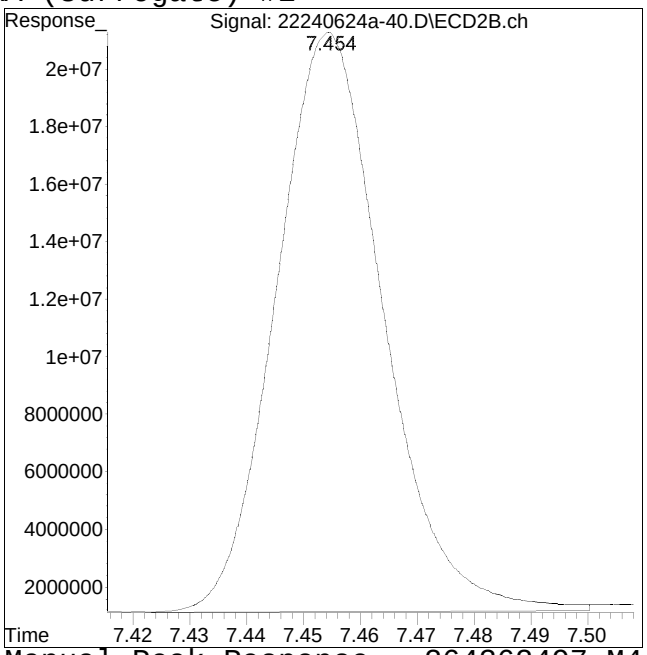
Original Peak Response = 299550979 Manual Peak Response = 269827318 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240624QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240624a-40.D Operator : pest22:jag
Date Inj'd : 6/25/2024 1:04 Instrument : Pest22
Sample : L2434679-07,42,, Quant Date : 6/25/2024 6:48 am

Compound #16: DCAA (surrogate) #2





Original Peak Response = 272327998 Manual Peak Response = 264362497 M4
M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest22\2024\240624a\
Data File : 22240624a-41.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 25 Jun 2024 01:22
Operator : pest22:jag
Sample : L2434679-08,42,,
Misc : wg1938492,WG1938239,ical21040
ALS Vial : 41 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 25 06:48:59 2024
Quant Method : I:\PEST\Pest22\2024\240624a\Herb22_2024_04_12_mgL_ICAL21040.m
Quant Title : herb
QLast Update : Sun Jun 23 09:11:26 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PEST\Pest22\2024\240624a\22240624a-36.D
Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	mg/l	mg/l
Internal Standards						
1) i 4,4'-DBOB	8.528	8.523	881.8E6	963.8E6	0.250M4	0.250M3
Standard Area 1 : #1 = 921040679				Recovery =	95.74%	
Standard Area 1 : #2 = 1001798454				Recovery =	96.21%	
System Monitoring Compounds						
3) s DCAA (surrog	6.986	7.454	311.2E6	301.7E6	0.429M3	0.386M3
Spiked Amount	0.500	Range 30 - 150		Recovery =	85.80%	77.20%
Target Compounds						
8) t 2,4-D	0.000	0.000	0	0	N.D. d	N.D. d
9) t 2,4,5-TP (Si	0.000	0.000	0	0	N.D. d	N.D. d
10) t 2,4,5-T	0.000	0.000	0	0	N.D. d	N.D. d
SemiQuant Compounds - Not Calibrated on this Instrument						

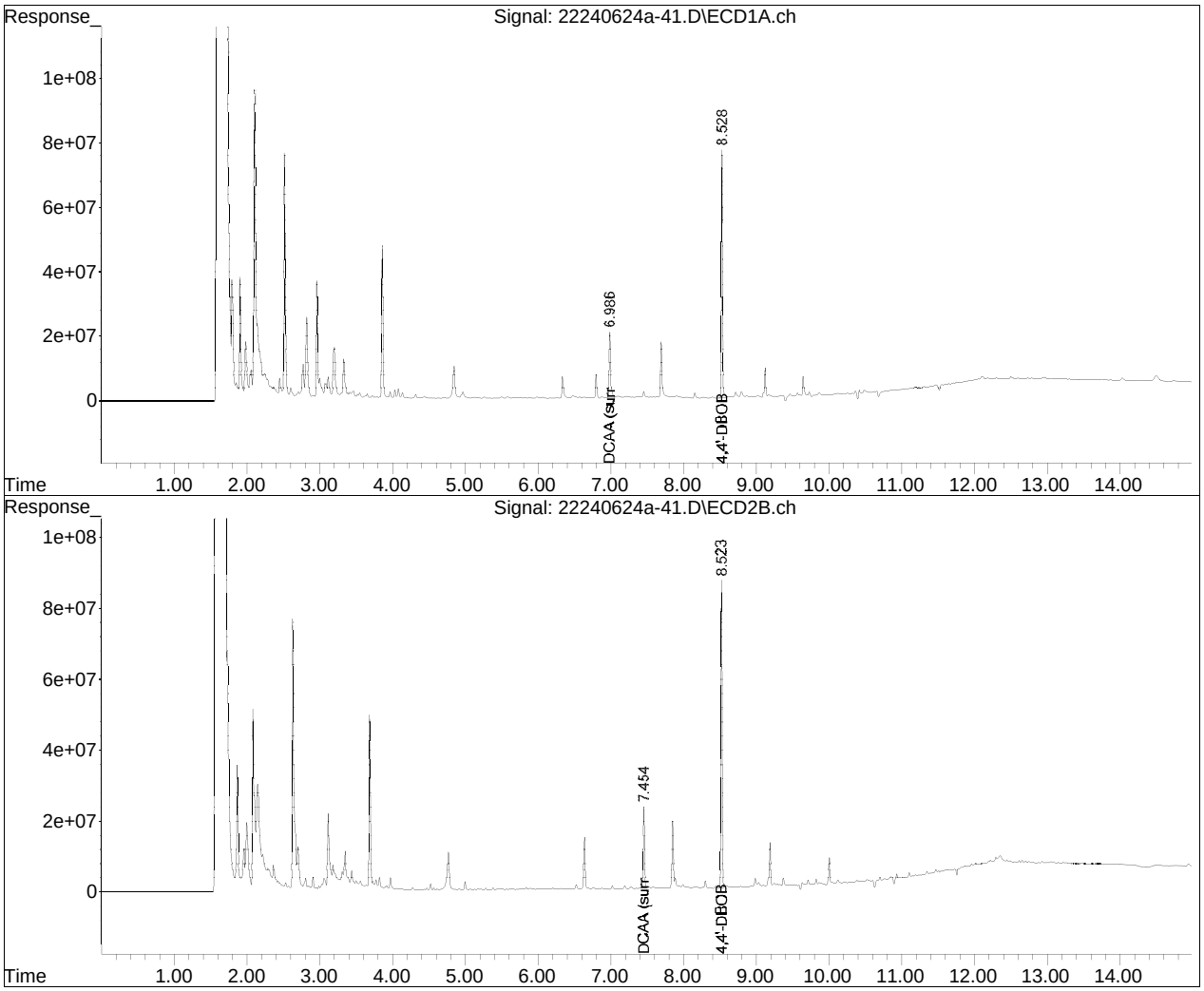
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listeda\22240624a-36.D•

Data Path : I:\PEST\Pest22\2024\240624a\
Data File : 22240624a-41.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 25 Jun 2024 01:22
Operator : pest22:jag
Sample : L2434679-08,42,,
Misc : wg1938492,WG1938239,ical21040
ALS Vial : 41 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 25 06:48:59 2024
Quant Method : I:\PEST\Pest22\2024\240624a\Herb22_2024_04_12_mgL_ICAL21040.m
Quant Title : herb
QLast Update : Sun Jun 23 09:11:26 2024
Response via : Initial Calibration
Integrator: ChemStation

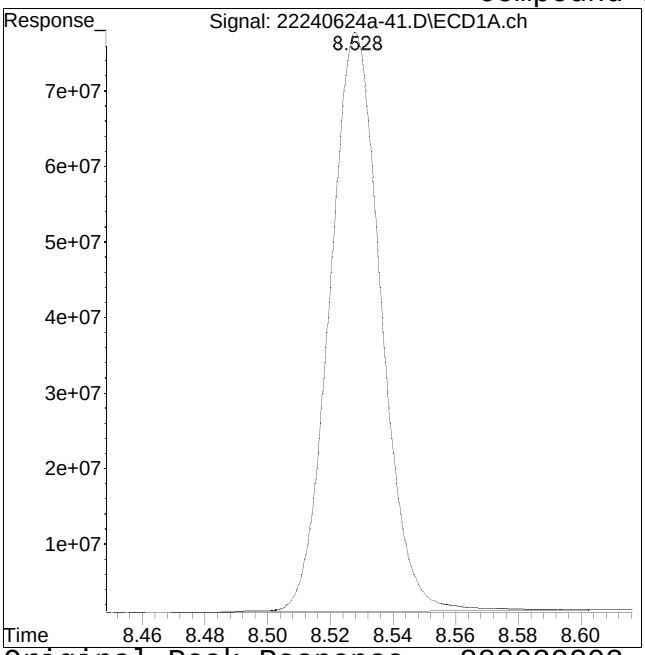
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

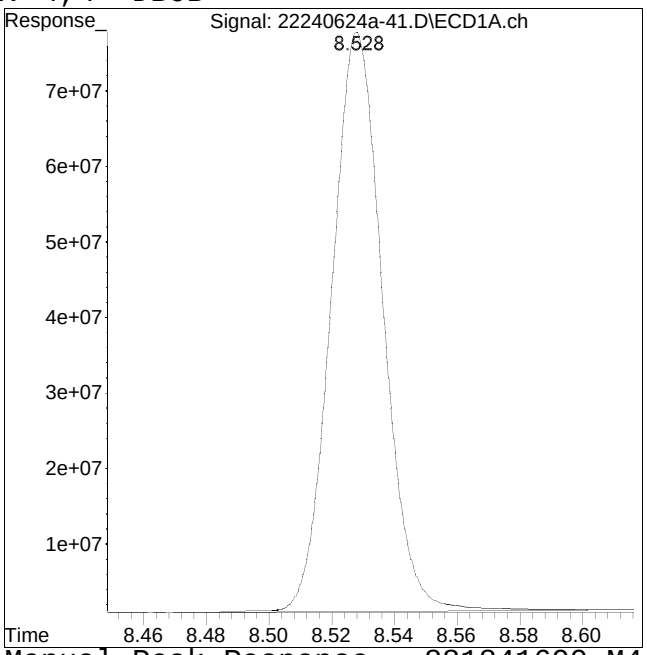


Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240624QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240624a-41.D Operator : pest22:jag
Date Inj'd : 6/25/2024 1:22 Instrument : Pest22
Sample : L2434679-08,42,, Quant Date : 6/25/2024 6:48 am

Compound #1: 4,4'-DBOB



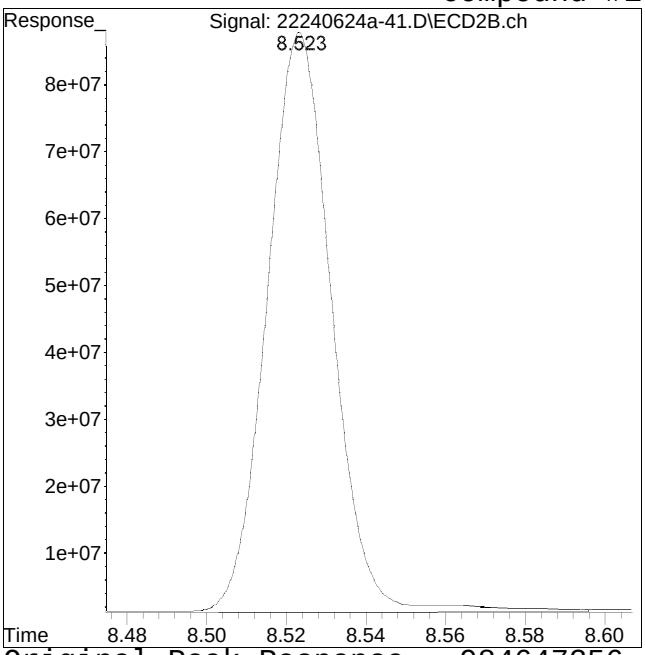


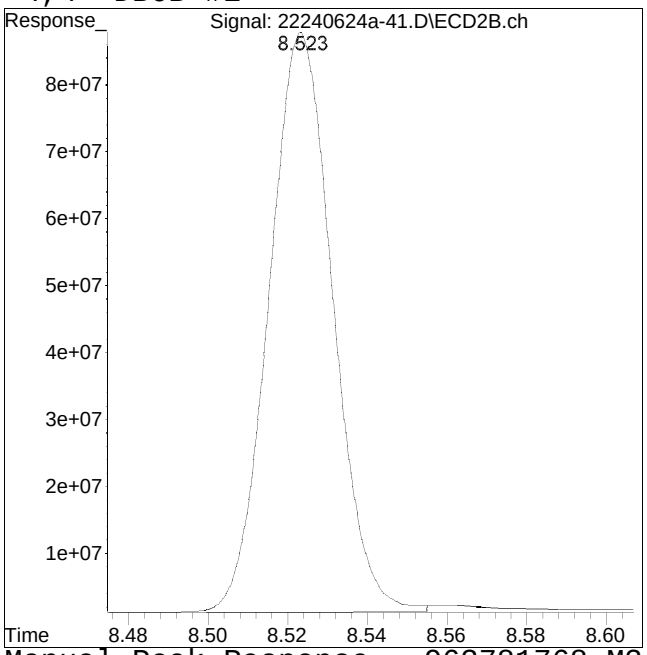
Original Peak Response = 880039203 Manual Peak Response = 881841690 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240624QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240624a-41.D Operator : pest22:jag
Date Inj'd : 6/25/2024 1:22 Instrument : Pest22
Sample : L2434679-08,42,, Quant Date : 6/25/2024 6:48 am

Compound #14: 4,4'-DBOB #2



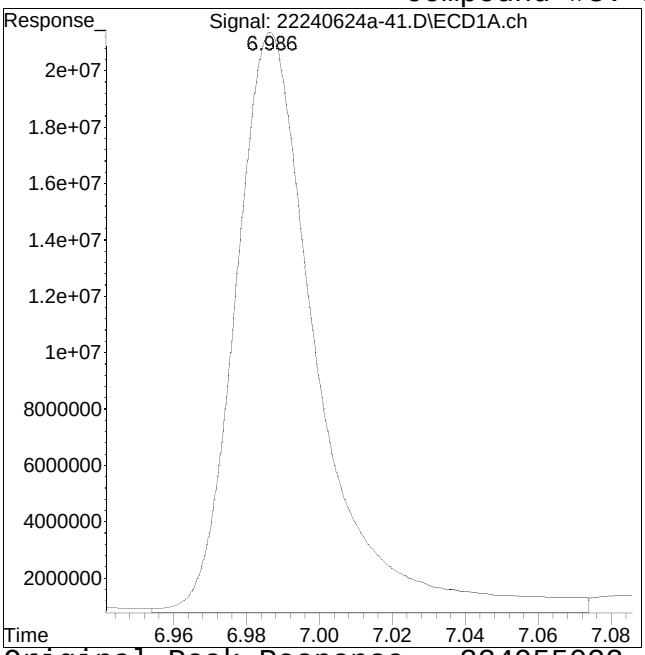


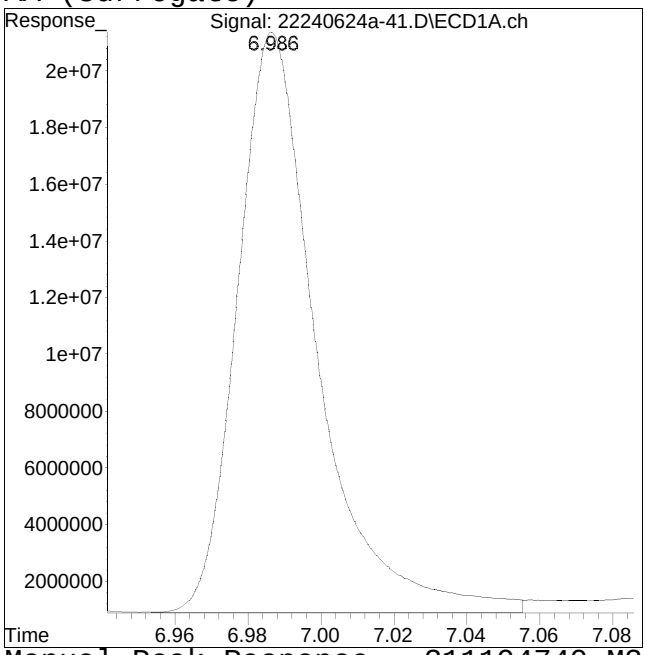
Original Peak Response = 984647356 Manual Peak Response = 963781768 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240624QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240624a-41.D Operator : pest22:jag
Date Inj'd : 6/25/2024 1:22 Instrument : Pest22
Sample : L2434679-08,42,, Quant Date : 6/25/2024 6:48 am

Compound #3: DCAA (surrogate)



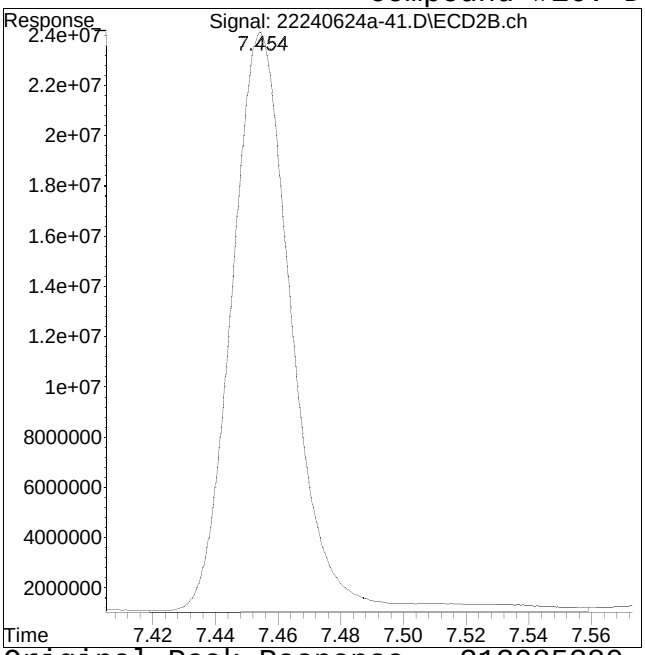


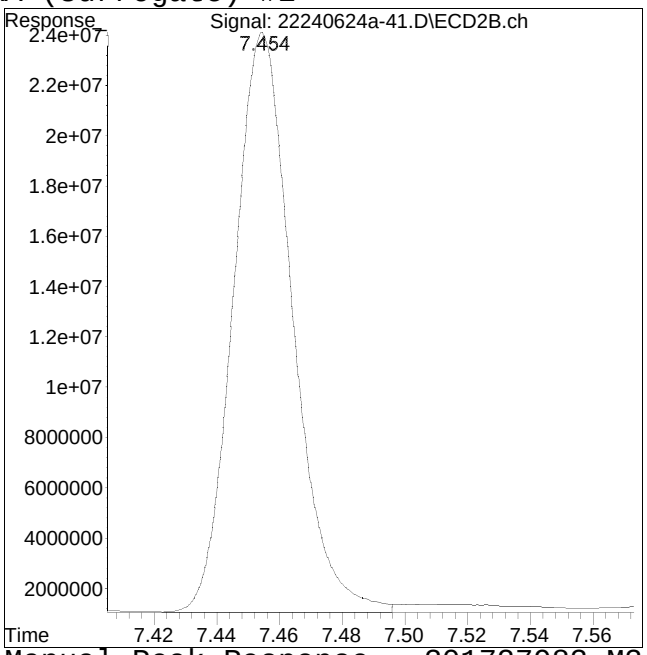
Original Peak Response = 324955022 Manual Peak Response = 311194740 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240624QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240624a-41.D Operator : pest22:jag
Date Inj'd : 6/25/2024 1:22 Instrument : Pest22
Sample : L2434679-08,42,, Quant Date : 6/25/2024 6:48 am

Compound #16: DCAA (surrogate) #2





Original Peak Response = 313085380 Manual Peak Response = 301727983 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest22\2024\240624a\
Data File : 22240624a-42.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 25 Jun 2024 01:40
Operator : pest22:jag
Sample : L2434679-09,42,,
Misc : wg1938492,WG1938239,ical21040
ALS Vial : 42 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 25 06:49:00 2024
Quant Method : I:\PEST\Pest22\2024\240624a\Herb22_2024_04_12_mgL_ICAL21040.m
Quant Title : herb
QLast Update : Sun Jun 23 09:11:26 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PEST\Pest22\2024\240624a\22240624a-36.D
Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	mg/l	mg/l
Internal Standards						
1) i 4,4'-DBOB	8.527	8.523	882.2E6	974.9E6	0.250M3	0.250M3
Standard Area 1 : #1 = 921040679				Recovery =	95.78%	
Standard Area 1 : #2 = 1001798454				Recovery =	97.32%	
System Monitoring Compounds						
3) s DCAA (surrog	6.986	7.455	293.4E6	288.5E6	0.404M4	0.365M4
Spiked Amount	0.500	Range 30 - 150		Recovery =	80.80%	73.00%
Target Compounds						
8) t 2,4-D	0.000	0.000	0	0	N.D. d	N.D. d
9) t 2,4,5-TP (Si	0.000	0.000	0	0	N.D. d	N.D. d
10) t 2,4,5-T	0.000	0.000	0	0	N.D. d	N.D. d
SemiQuant Compounds - Not Calibrated on this Instrument						

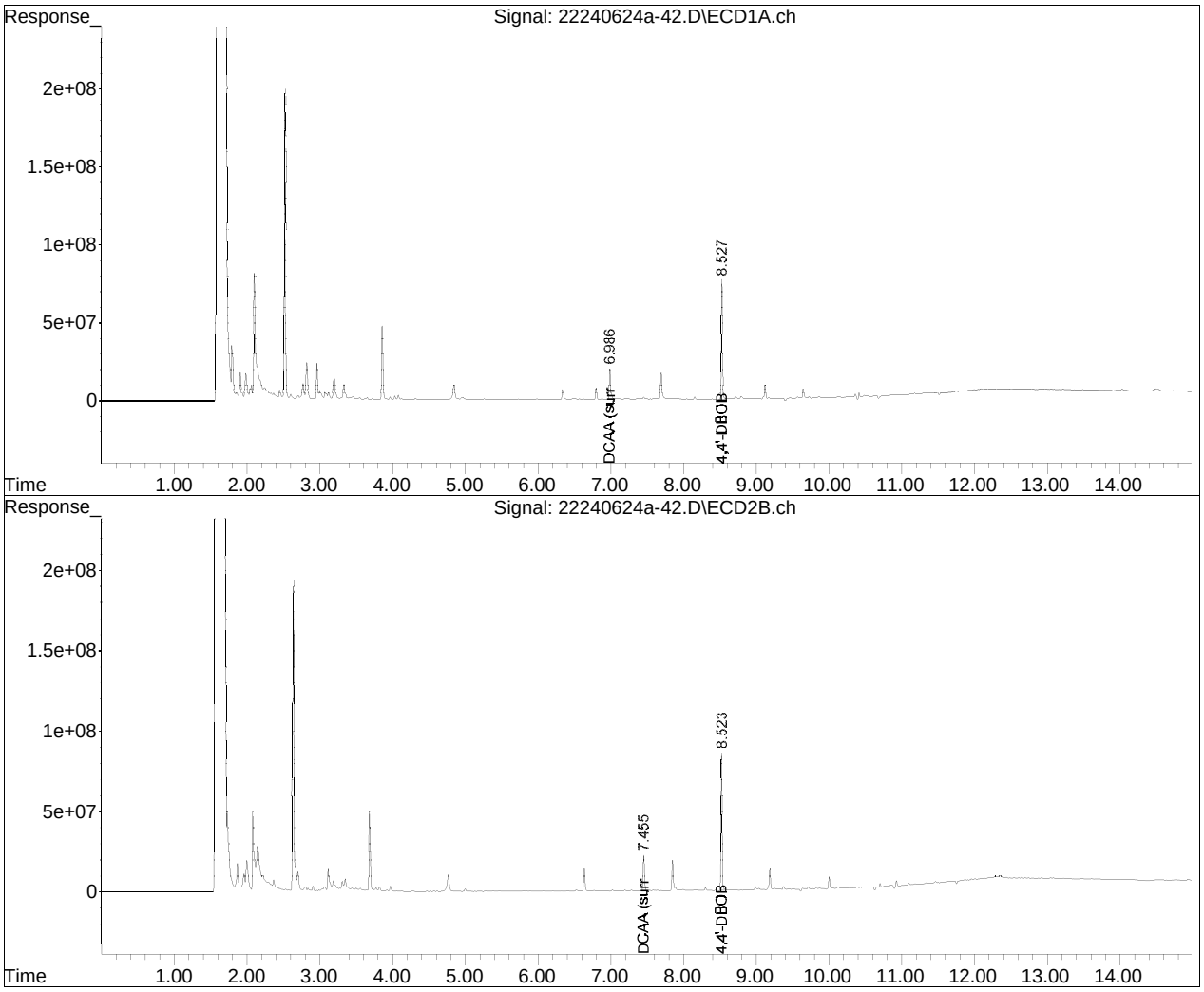
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listeda\22240624a-36.D•

Data Path : I:\PEST\Pest22\2024\240624a\
Data File : 22240624a-42.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 25 Jun 2024 01:40
Operator : pest22:jag
Sample : L2434679-09,42,,
Misc : wg1938492,WG1938239,ical21040
ALS Vial : 42 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 25 06:49:00 2024
Quant Method : I:\PEST\Pest22\2024\240624a\Herb22_2024_04_12_mgL_ICAL21040.m
Quant Title : herb
QLast Update : Sun Jun 23 09:11:26 2024
Response via : Initial Calibration
Integrator: ChemStation

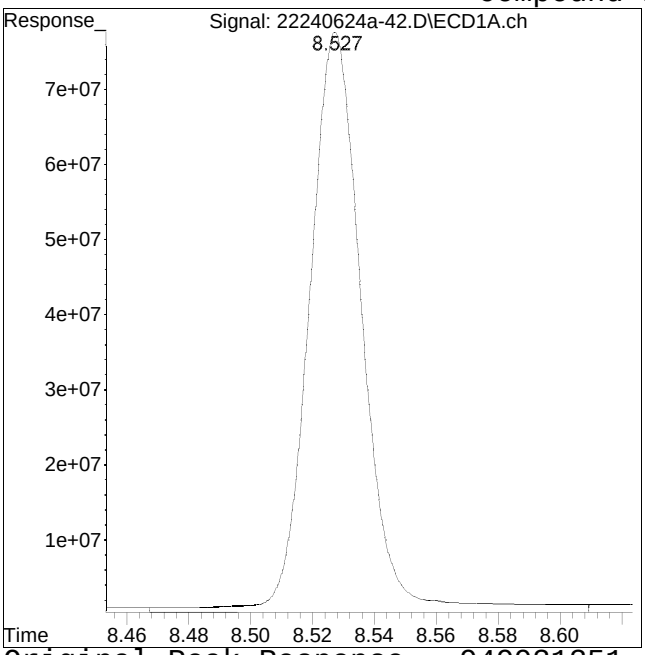
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

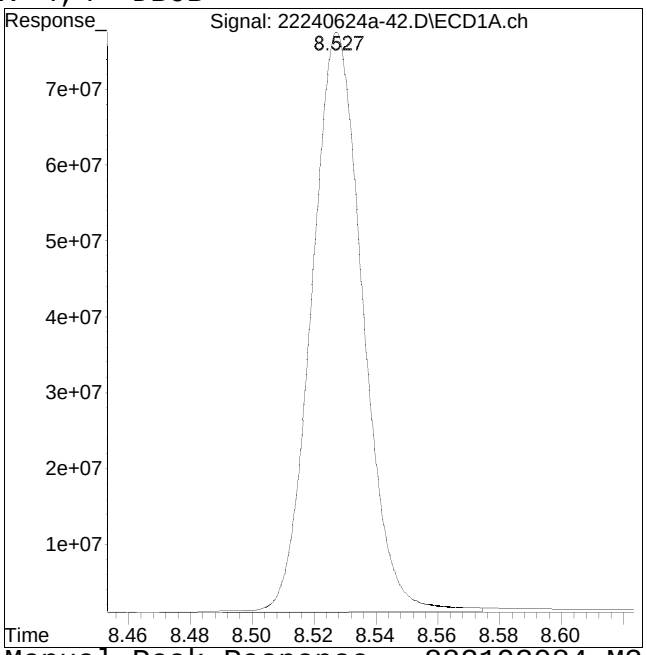


Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240624QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240624a-42.D Operator : pest22:jag
Date Inj'd : 6/25/2024 1:40 Instrument : Pest22
Sample : L2434679-09,42,, Quant Date : 6/25/2024 6:49 am

Compound #1: 4,4'-DBOB



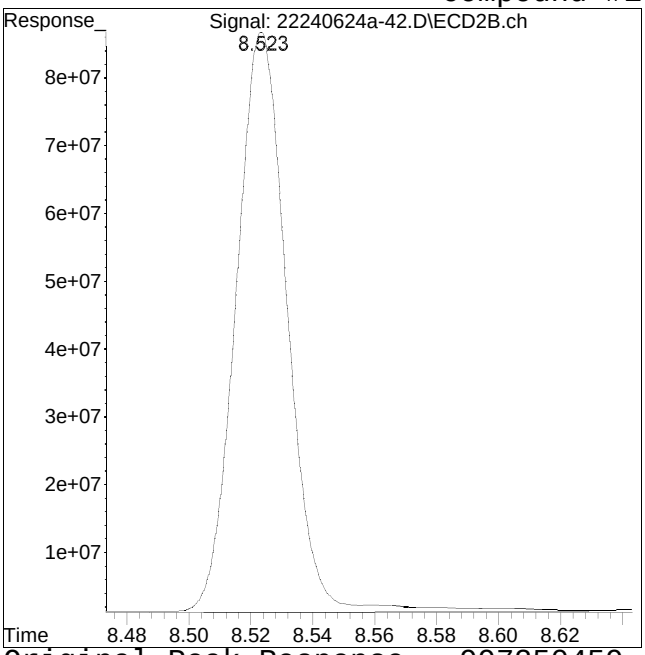


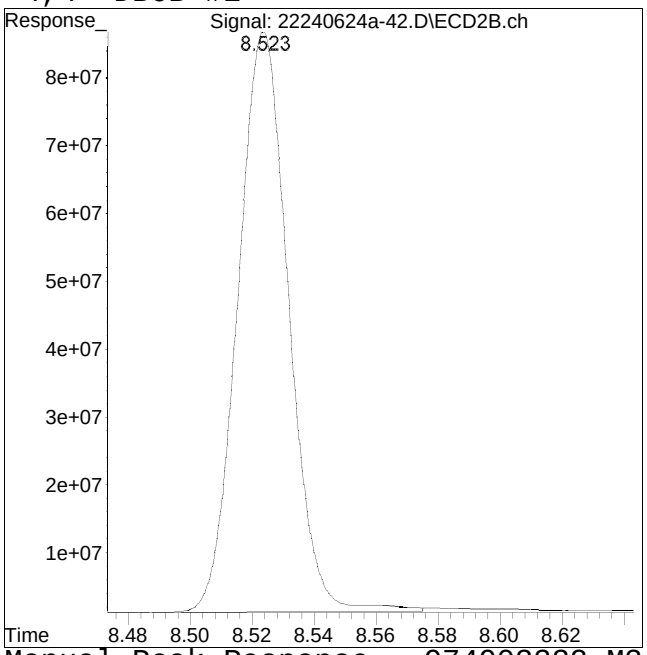
Original Peak Response = 949931351 Manual Peak Response = 882193084 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240624QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240624a-42.D Operator : pest22:jag
Date Inj'd : 6/25/2024 1:40 Instrument : Pest22
Sample : L2434679-09,42,, Quant Date : 6/25/2024 6:49 am

Compound #14: 4,4'-DBOB #2



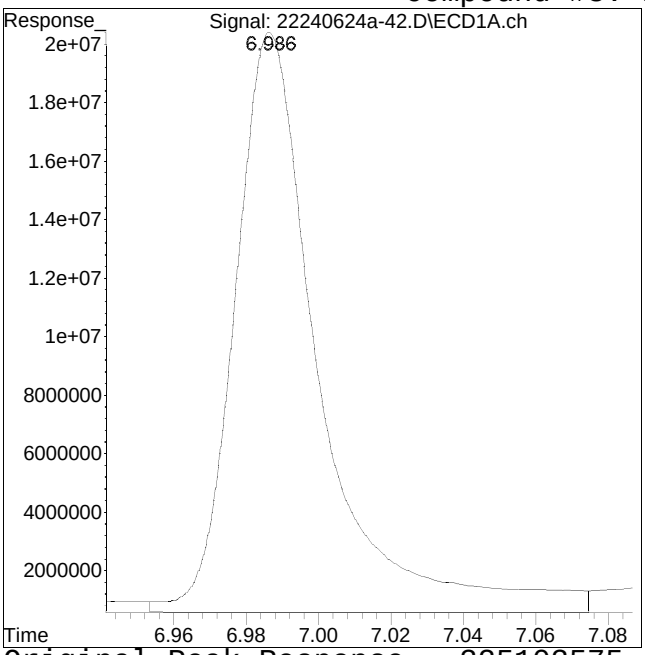


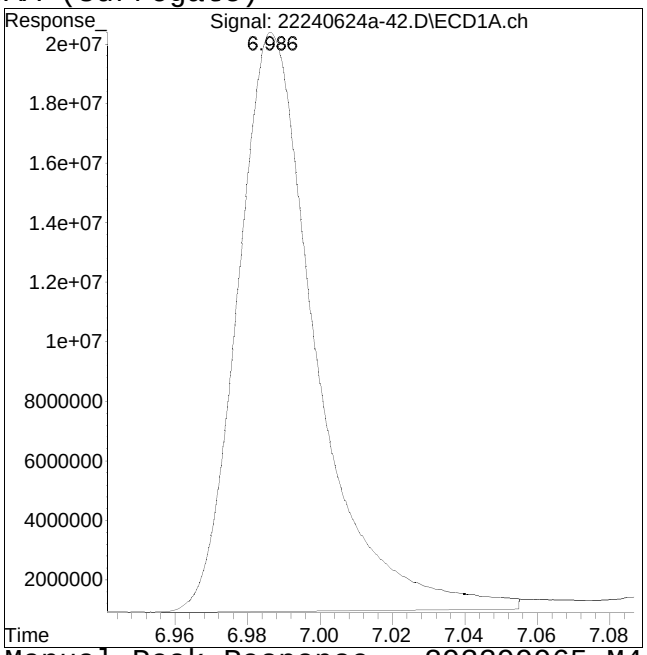
Original Peak Response = 997250459 Manual Peak Response = 974903332 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240624QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240624a-42.D Operator : pest22:jag
Date Inj'd : 6/25/2024 1:40 Instrument : Pest22
Sample : L2434679-09,42,, Quant Date : 6/25/2024 6:49 am

Compound #3: DCAA (surrogate)



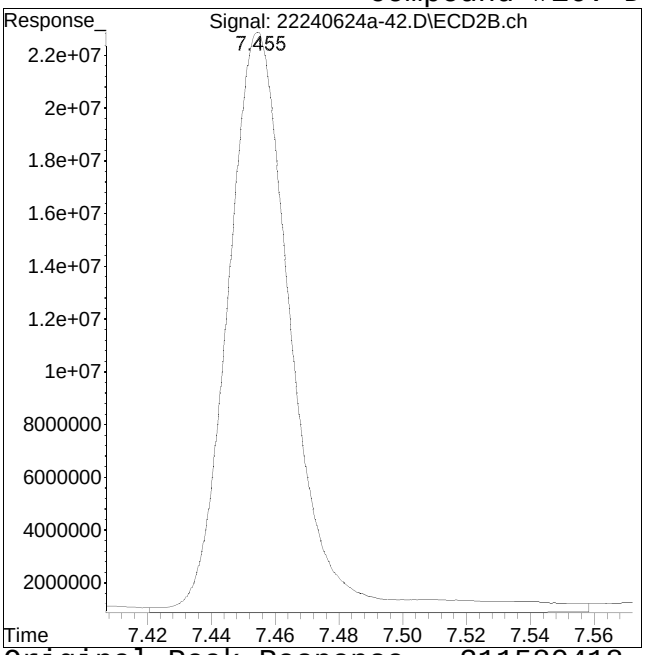


Original Peak Response = 325103575 Manual Peak Response = 293399965 M4
M4 = Poor automated baseline construction.

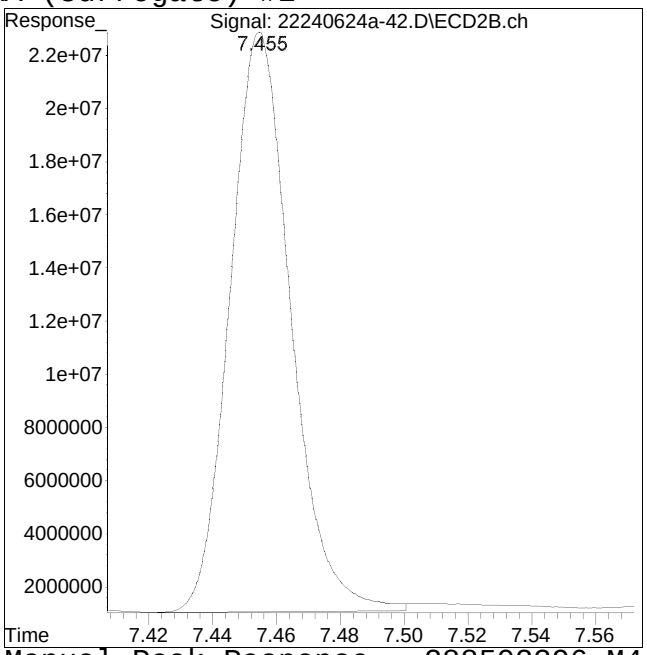
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240624QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240624a-42.D Operator : pest22:jag
Date Inj'd : 6/25/2024 1:40 Instrument : Pest22
Sample : L2434679-09,42,, Quant Date : 6/25/2024 6:49 am

Compound #16: DCAA (surrogate) #2



Original Peak Response = 311580418



Manual Peak Response = 288502396 M4

M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest22\2024\240624a\
Data File : 22240624a-43.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 25 Jun 2024 01:58
Operator : pest22:jag
Sample : L2434679-10,42,,
Misc : wg1938492,WG1938239,ical21040
ALS Vial : 43 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 25 06:49:02 2024
Quant Method : I:\PEST\Pest22\2024\240624a\Herb22_2024_04_12_mgL_ICAL21040.m
Quant Title : herb
QLast Update : Sun Jun 23 09:11:26 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PEST\Pest22\2024\240624a\22240624a-36.D
Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	mg/l	mg/l
Internal Standards						
1) i 4,4'-DBOB	8.528	8.523	893.7E6	979.6E6	0.250M4	0.250M4
Standard Area 1 : #1 = 921040679				Recovery =	97.04%	
Standard Area 1 : #2 = 1001798454				Recovery =	97.78%	
System Monitoring Compounds						
3) s DCAA (surrog	6.987	7.454	259.8E6	250.0E6	0.353	0.315M4
Spiked Amount	0.500	Range 30 - 150		Recovery =	70.60%	63.00%
Target Compounds						
8) t 2,4-D	0.000	0.000	0	0	N.D. d	N.D. d
9) t 2,4,5-TP (Si	0.000	0.000	0	0	N.D. d	N.D. d
10) t 2,4,5-T	0.000	0.000	0	0	N.D. d	N.D. d
SemiQuant Compounds - Not Calibrated on this Instrument						

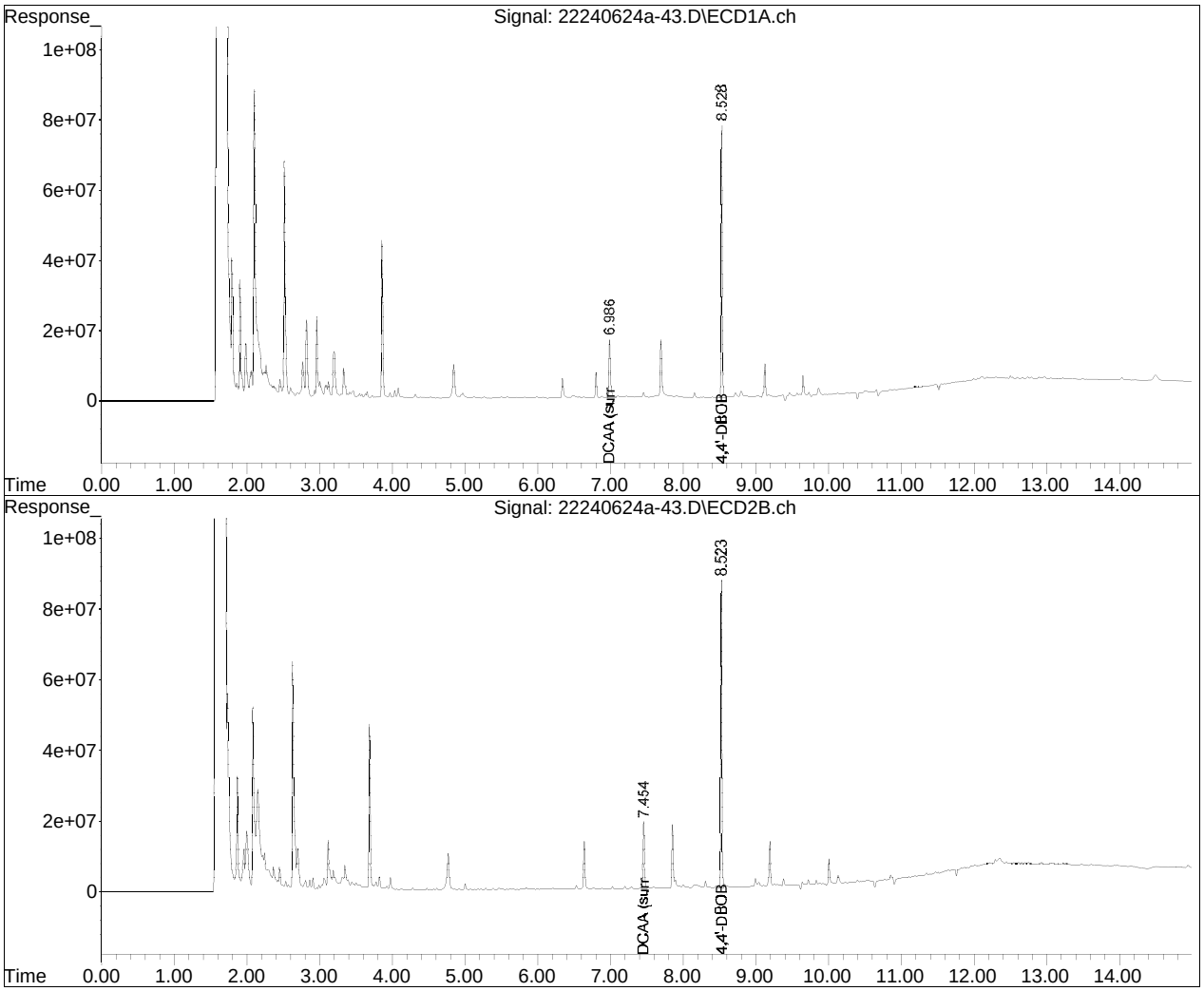
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listeda\22240624a-36.D•

Data Path : I:\PEST\Pest22\2024\240624a\
Data File : 22240624a-43.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 25 Jun 2024 01:58
Operator : pest22:jag
Sample : L2434679-10,42,,
Misc : wg1938492,WG1938239,ical21040
ALS Vial : 43 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 25 06:49:02 2024
Quant Method : I:\PEST\Pest22\2024\240624a\Herb22_2024_04_12_mgL_ICAL21040.m
Quant Title : herb
QLast Update : Sun Jun 23 09:11:26 2024
Response via : Initial Calibration
Integrator: ChemStation

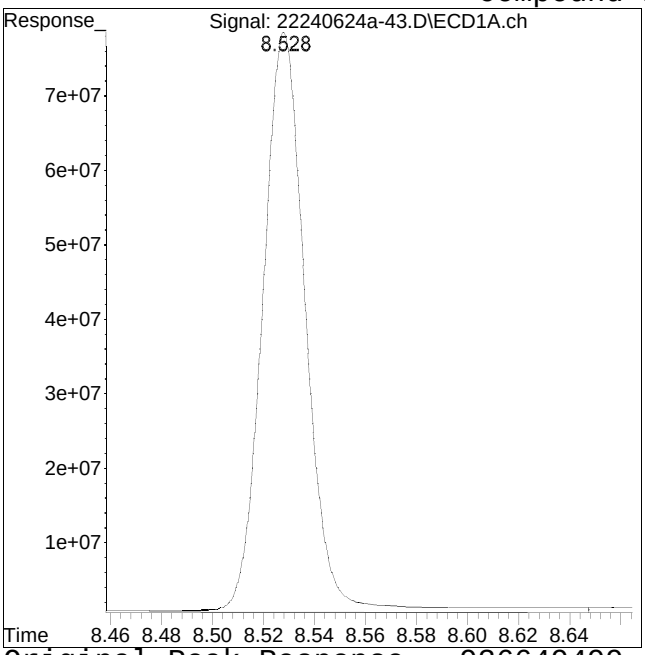
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



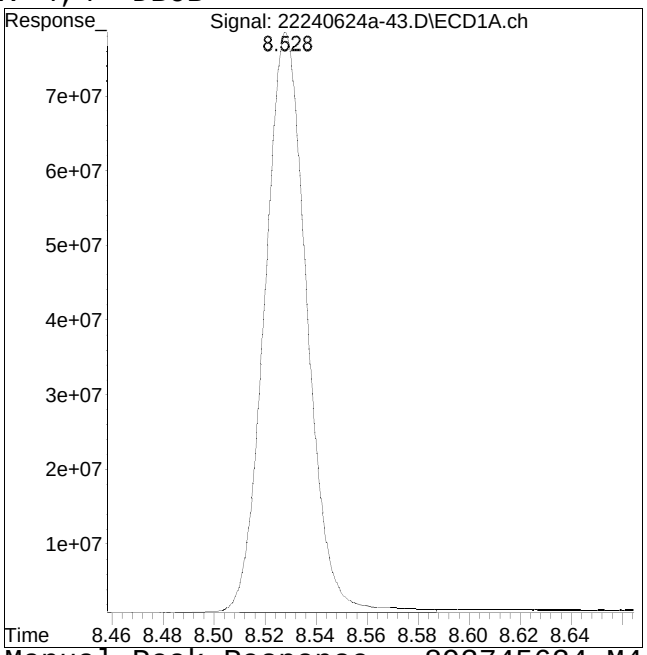
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240624QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240624a-43.D Operator : pest22:jag
Date Inj'd : 6/25/2024 1:58 Instrument : Pest22
Sample : L2434679-10,42,, Quant Date : 6/25/2024 6:49 am

Compound #1: 4,4'-DBOB



Original Peak Response = 936649499



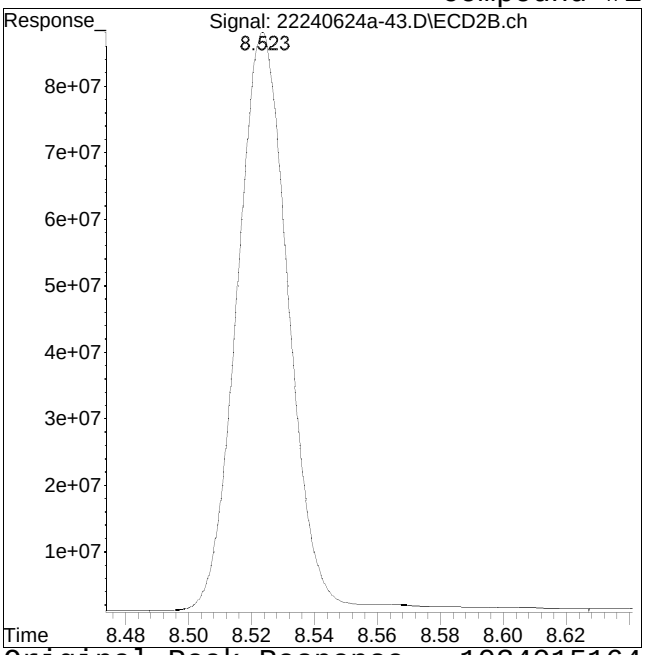
Manual Peak Response = 893745624 M4

M4 = Poor automated baseline construction.

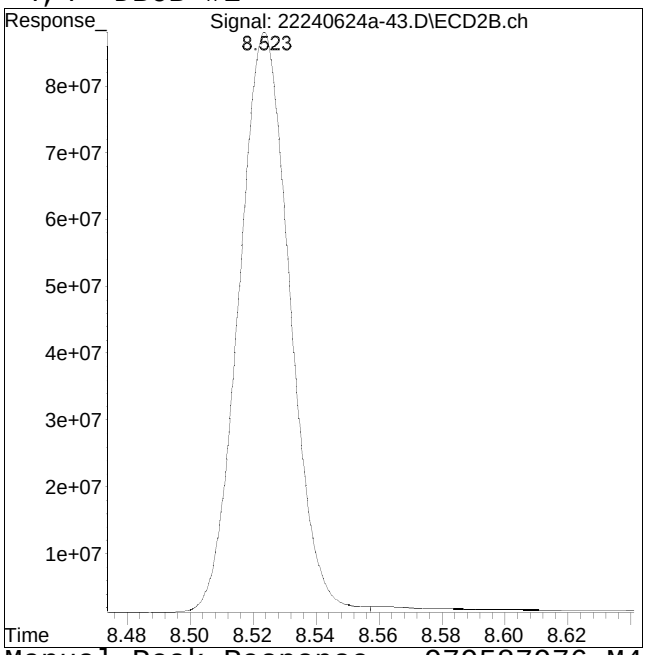
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240624QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240624a-43.D Operator : pest22:jag
Date Inj'd : 6/25/2024 1:58 Instrument : Pest22
Sample : L2434679-10,42,, Quant Date : 6/25/2024 6:49 am

Compound #14: 4,4'-DBOB #2



Original Peak Response = 1034015164



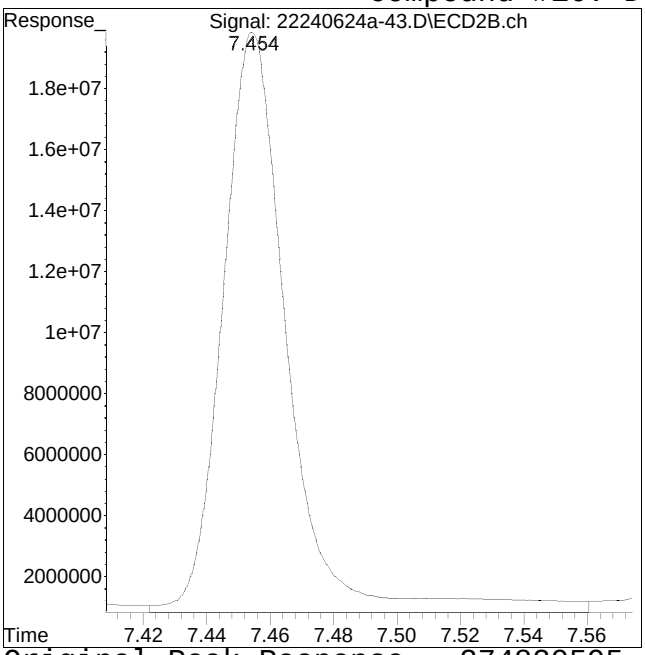
Manual Peak Response = 979587976 M4

M4 = Poor automated baseline construction.

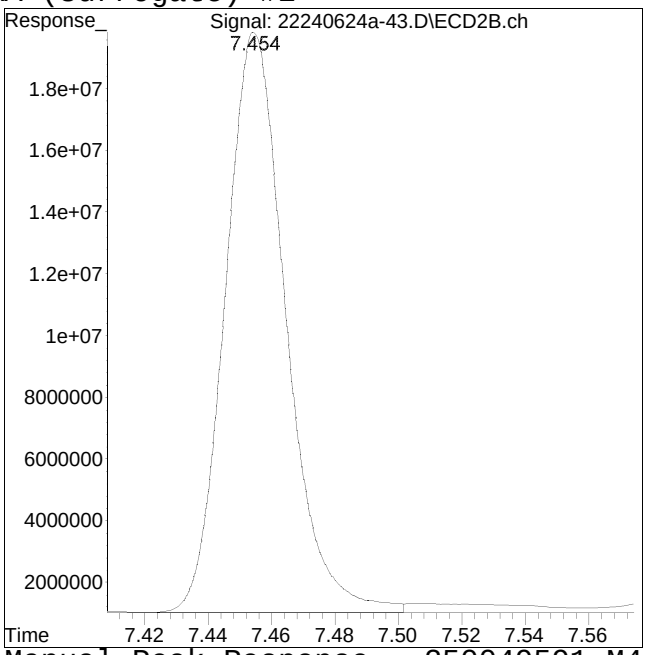
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240624QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240624a-43.D Operator : pest22:jag
Date Inj'd : 6/25/2024 1:58 Instrument : Pest22
Sample : L2434679-10,42,, Quant Date : 6/25/2024 6:49 am

Compound #16: DCAA (surrogate) #2



Original Peak Response = 274820595



Manual Peak Response = 250049591 M4

M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest22\2024\240624a\
Data File : 22240624a-44.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 25 Jun 2024 02:16
Operator : pest22:jag
Sample : L2434679-11,42,,
Misc : wg1938492,WG1938239,ical21040
ALS Vial : 44 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 25 06:49:03 2024
Quant Method : I:\PEST\Pest22\2024\240624a\Herb22_2024_04_12_mgL_ICAL21040.m
Quant Title : herb
QLast Update : Sun Jun 23 09:11:26 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PEST\Pest22\2024\240624a\22240624a-36.D
Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	mg/l	mg/l
Internal Standards						
1) i 4,4'-DBOB	8.528	8.523	862.8E6	961.1E6	0.250M3	0.250M3
Standard Area 1 : #1 = 921040679				Recovery = 93.67%		
Standard Area 1 : #2 = 1001798454				Recovery = 95.93%		
System Monitoring Compounds						
3) s DCAA (surrog	6.985	7.454	305.0E6	297.1E6	0.430M3	0.382M4
Spiked Amount 0.500	Range 30 - 150		Recovery = 86.00%		76.40%	
Target Compounds						
8) t 2,4-D	0.000	0.000	0	0	N.D. d	N.D. d
9) t 2,4,5-TP (Si	0.000	0.000	0	0	N.D. d	N.D. d
10) t 2,4,5-T	0.000	0.000	0	0	N.D. d	N.D. d
SemiQuant Compounds - Not Calibrated on this Instrument						

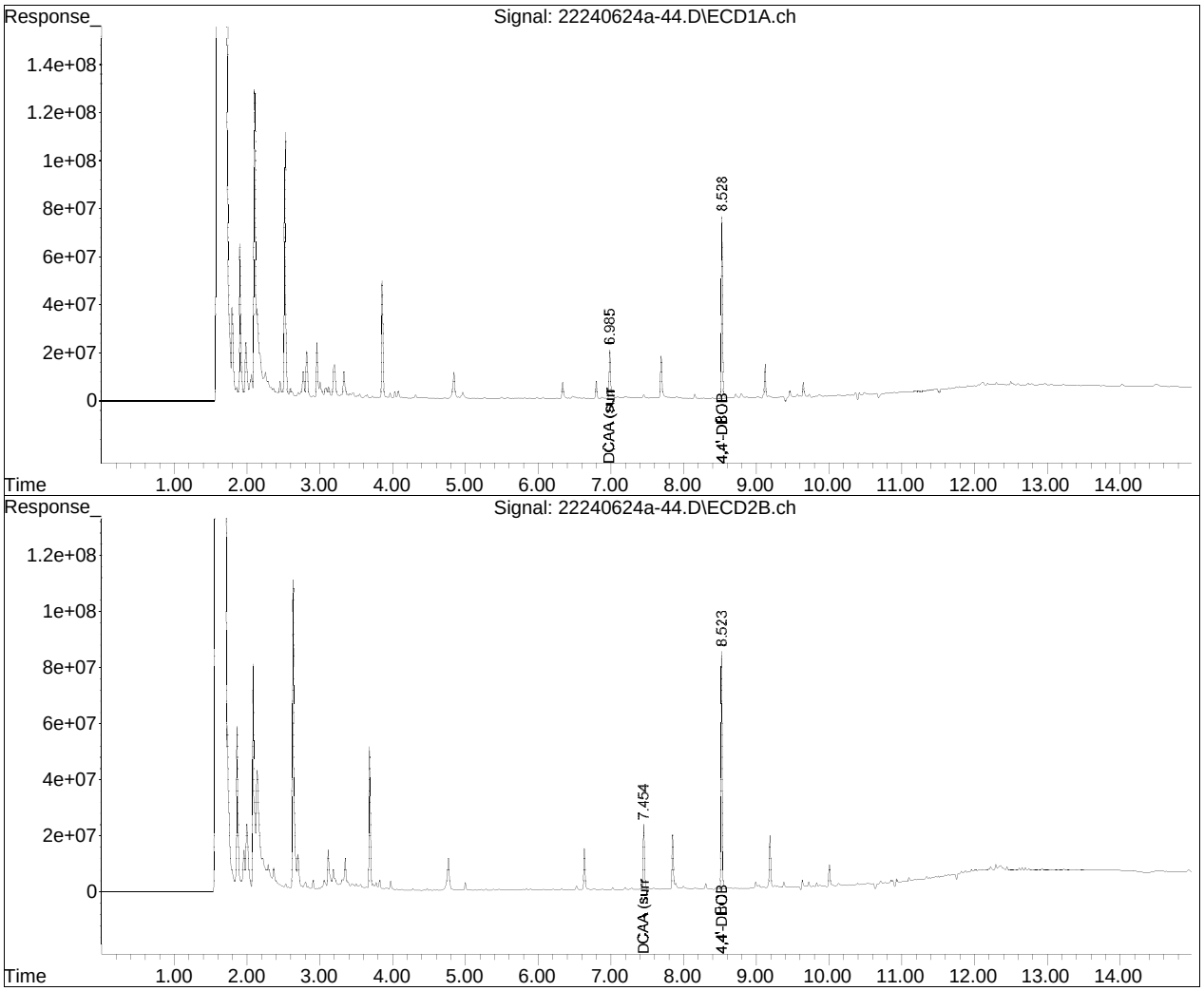
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listeda\22240624a-36.D•

Data Path : I:\PEST\Pest22\2024\240624a\
Data File : 22240624a-44.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 25 Jun 2024 02:16
Operator : pest22:jag
Sample : L2434679-11,42,,
Misc : wg1938492,WG1938239,ical21040
ALS Vial : 44 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 25 06:49:03 2024
Quant Method : I:\PEST\Pest22\2024\240624a\Herb22_2024_04_12_mgL_ICAL21040.m
Quant Title : herb
QLast Update : Sun Jun 23 09:11:26 2024
Response via : Initial Calibration
Integrator: ChemStation

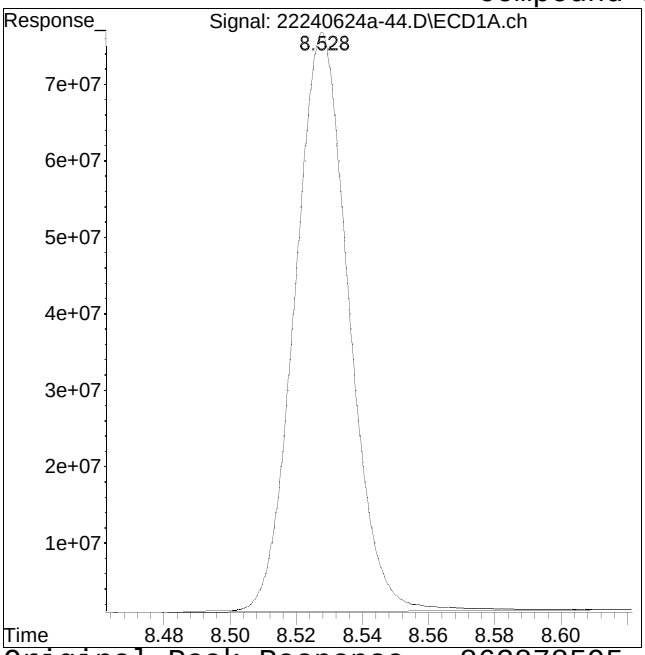
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

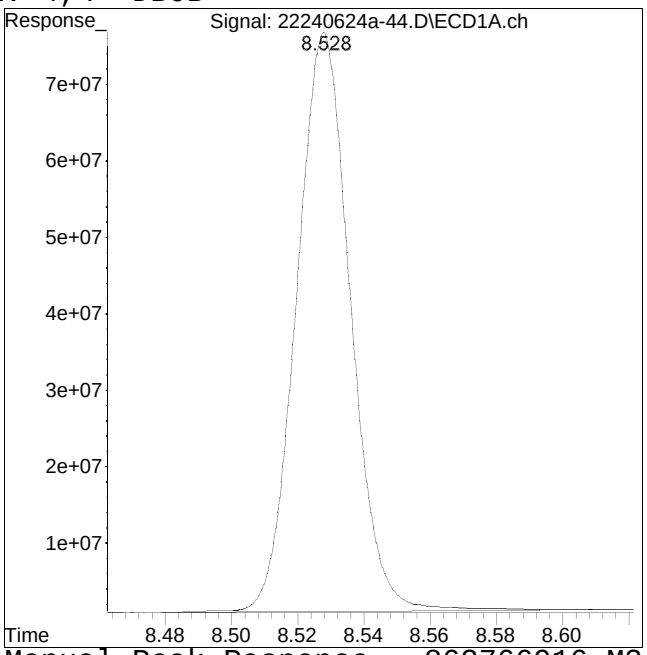


Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240624QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240624a-44.D Operator : pest22:jag
Date Inj'd : 6/25/2024 2:16 Instrument : Pest22
Sample : L2434679-11,42,, Quant Date : 6/25/2024 6:49 am

Compound #1: 4,4'-DBOB



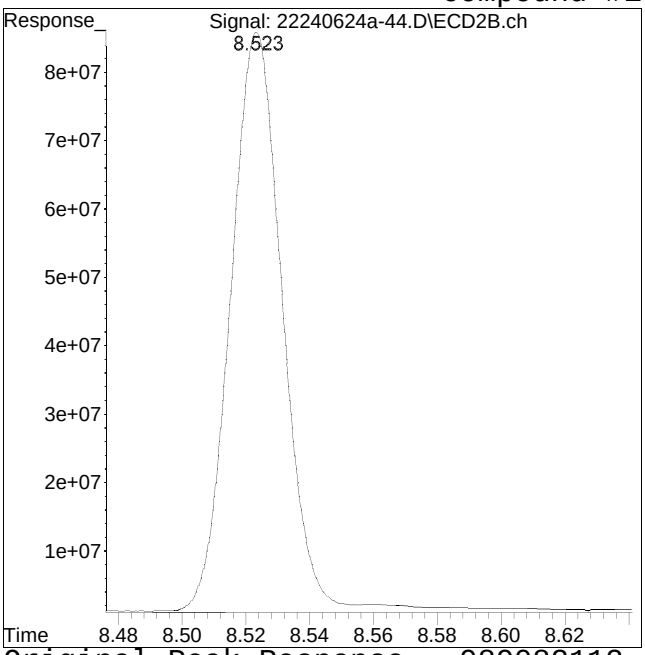


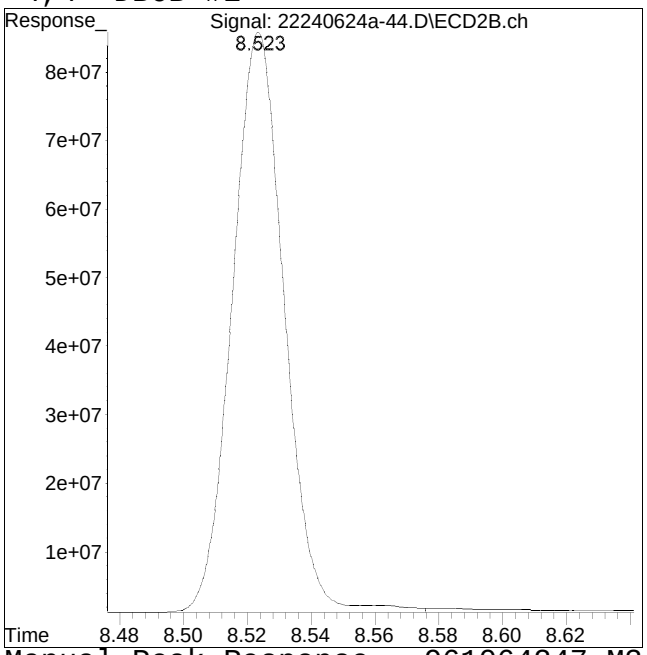
Original Peak Response = 863878595 Manual Peak Response = 862766916 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240624QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240624a-44.D Operator : pest22:jag
Date Inj'd : 6/25/2024 2:16 Instrument : Pest22
Sample : L2434679-11,42,, Quant Date : 6/25/2024 6:49 am

Compound #14: 4,4'-DBOB #2



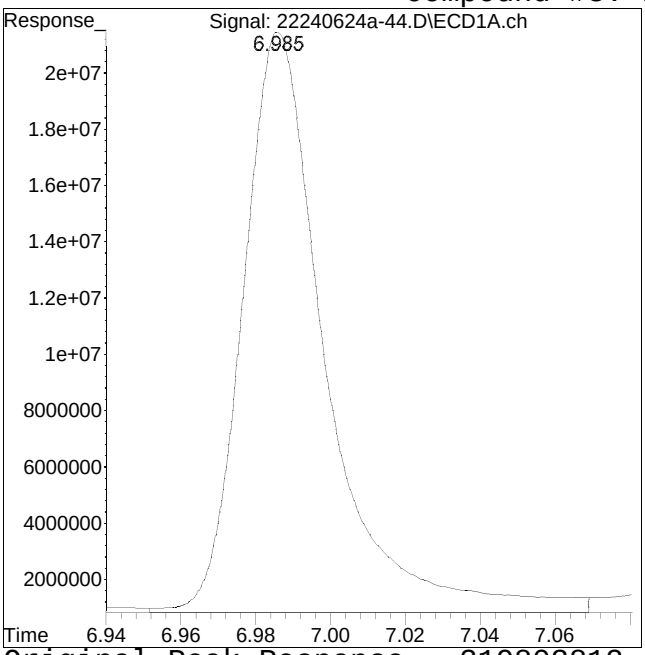


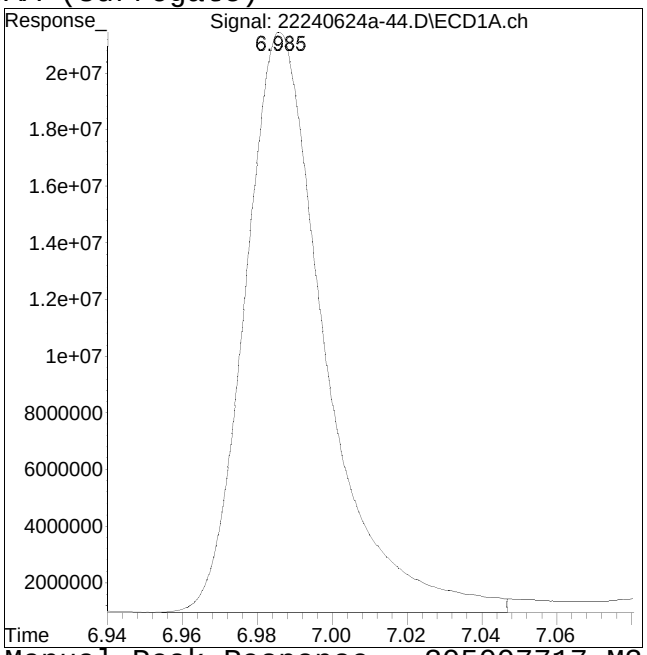
Original Peak Response = 989082112 Manual Peak Response = 961064247 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240624QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240624a-44.D Operator : pest22:jag
Date Inj'd : 6/25/2024 2:16 Instrument : Pest22
Sample : L2434679-11,42,, Quant Date : 6/25/2024 6:49 am

Compound #3: DCAA (surrogate)



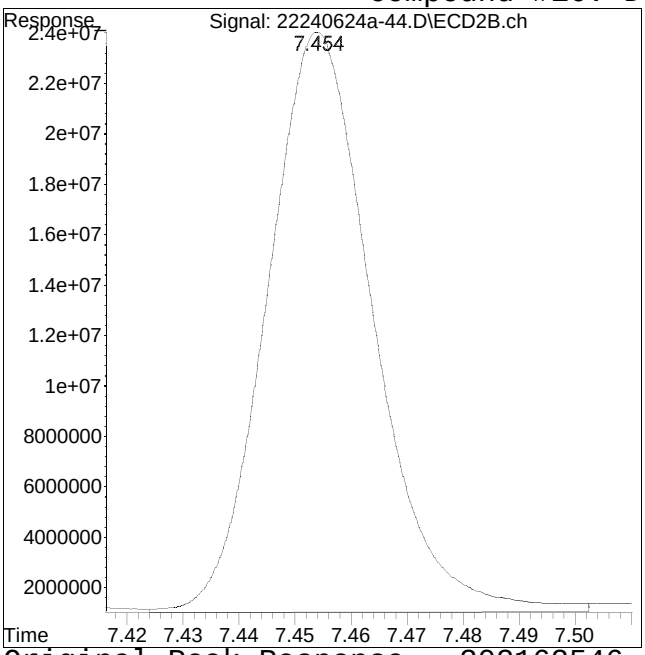


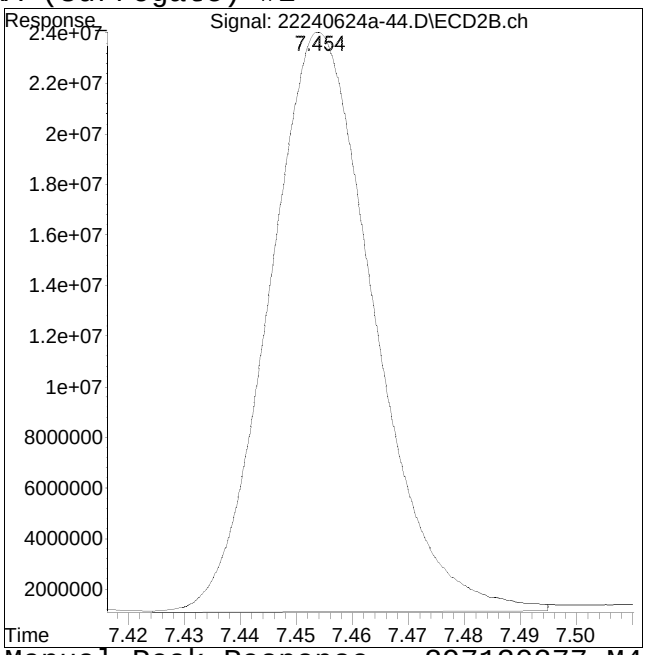
Original Peak Response = 319803812 Manual Peak Response = 305007717 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240624QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240624a-44.D Operator : pest22:jag
Date Inj'd : 6/25/2024 2:16 Instrument : Pest22
Sample : L2434679-11,42,, Quant Date : 6/25/2024 6:49 am

Compound #16: DCAA (surrogate) #2





Original Peak Response = 302162546 Manual Peak Response = 297130277 M4
M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest22\2024\240624a\
Data File : 22240624a-45.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 25 Jun 2024 02:35
Operator : pest22:jag
Sample : L2434679-12,42,,
Misc : wg1938492,WG1938239,ical21040
ALS Vial : 45 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 25 06:49:04 2024
Quant Method : I:\PEST\Pest22\2024\240624a\Herb22_2024_04_12_mgL_ICAL21040.m
Quant Title : herb
QLast Update : Sun Jun 23 09:11:26 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PEST\Pest22\2024\240624a\22240624a-36.D
Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	mg/l	mg/l
Internal Standards						
1) i 4,4'-DBOB	8.528	8.523	904.9E6	984.1E6	0.250M4	0.250M4
Standard Area 1 : #1 = 921040679				Recovery =	98.24%	
Standard Area 1 : #2 = 1001798454				Recovery =	98.24%	
System Monitoring Compounds						
3) s DCAA (surrog	6.987	7.454	331.9E6	320.5E6	0.446	0.402M4
Spiked Amount	0.500	Range 30 - 150		Recovery =	89.20%	80.40%
Target Compounds						
8) t 2,4-D	0.000	0.000	0	0	N.D. d	N.D. d
9) t 2,4,5-TP (Si	0.000	0.000	0	0	N.D. d	N.D. d
10) t 2,4,5-T	0.000	0.000	0	0	N.D. d	N.D. d
SemiQuant Compounds - Not Calibrated on this Instrument						

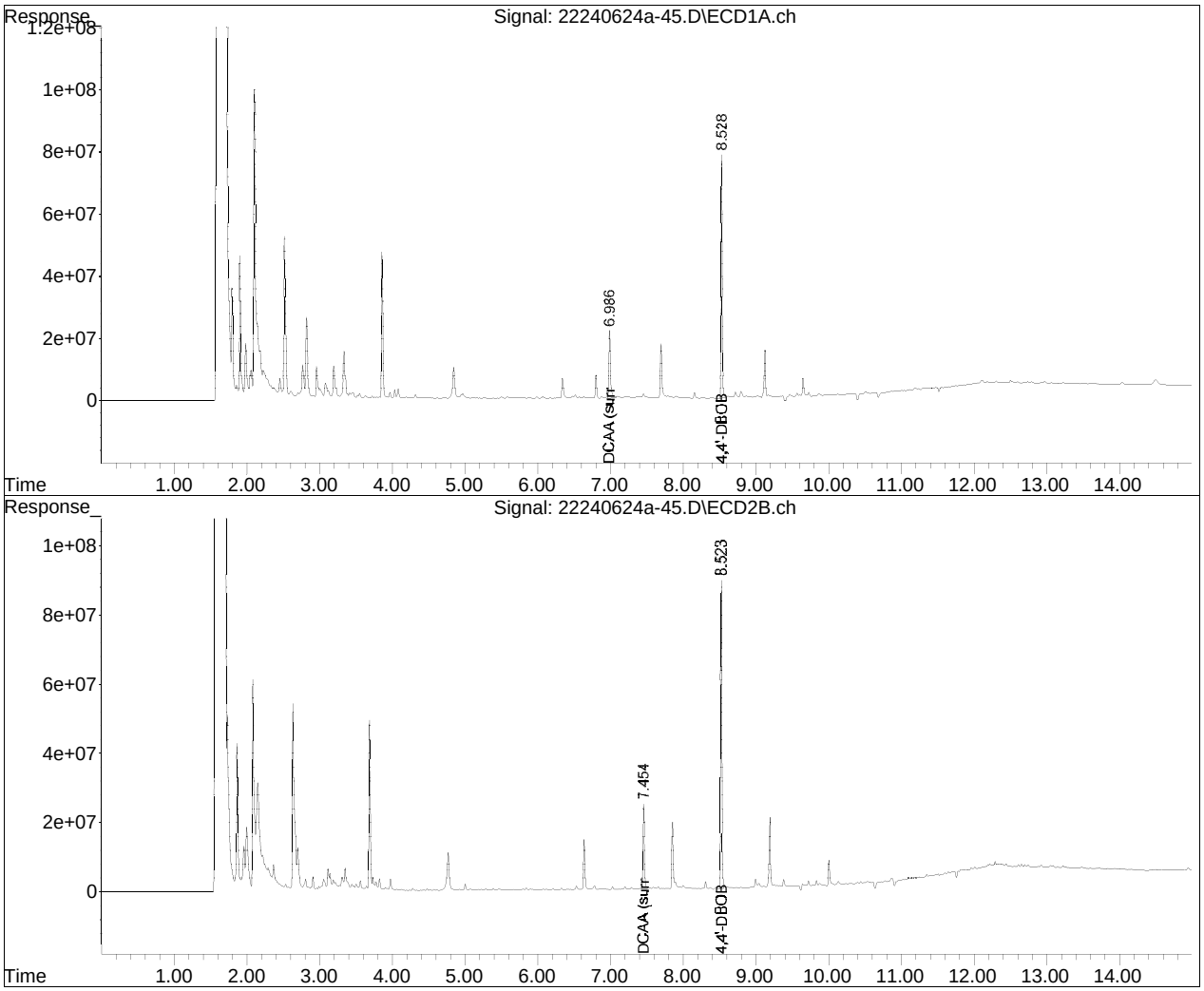
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listeda\22240624a-36.D•

Data Path : I:\PEST\Pest22\2024\240624a\
Data File : 22240624a-45.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 25 Jun 2024 02:35
Operator : pest22:jag
Sample : L2434679-12,42,,
Misc : wg1938492,WG1938239,ical21040
ALS Vial : 45 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 25 06:49:04 2024
Quant Method : I:\PEST\Pest22\2024\240624a\Herb22_2024_04_12_mgL_ICAL21040.m
Quant Title : herb
QLast Update : Sun Jun 23 09:11:26 2024
Response via : Initial Calibration
Integrator: ChemStation

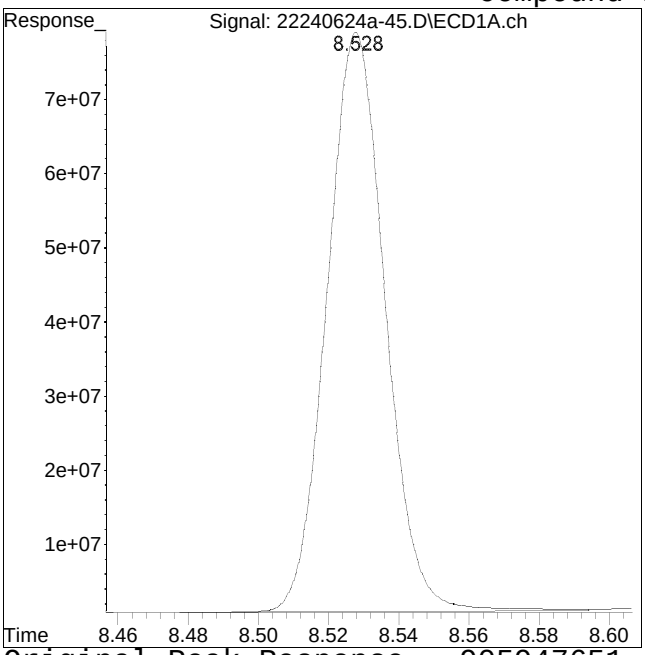
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

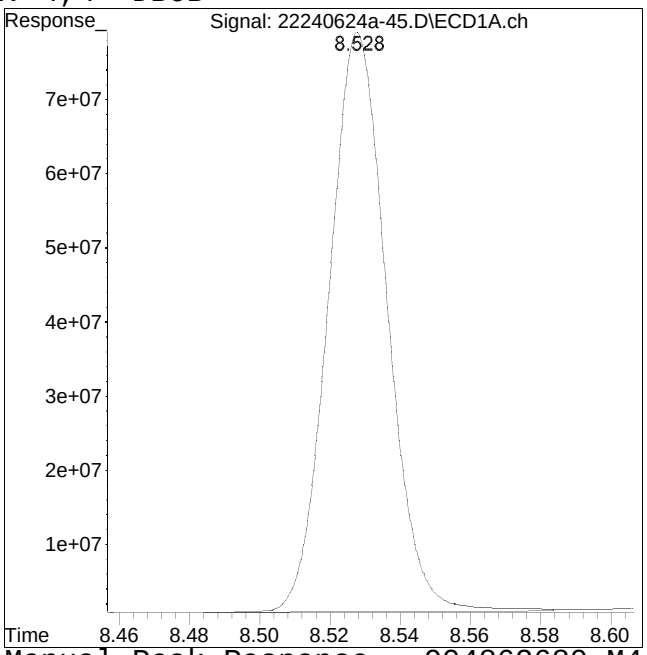


Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240624QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240624a-45.D Operator : pest22:jag
Date Inj'd : 6/25/2024 2:35 Instrument : Pest22
Sample : L2434679-12,42,, Quant Date : 6/25/2024 6:49 am

Compound #1: 4,4'-DBOB



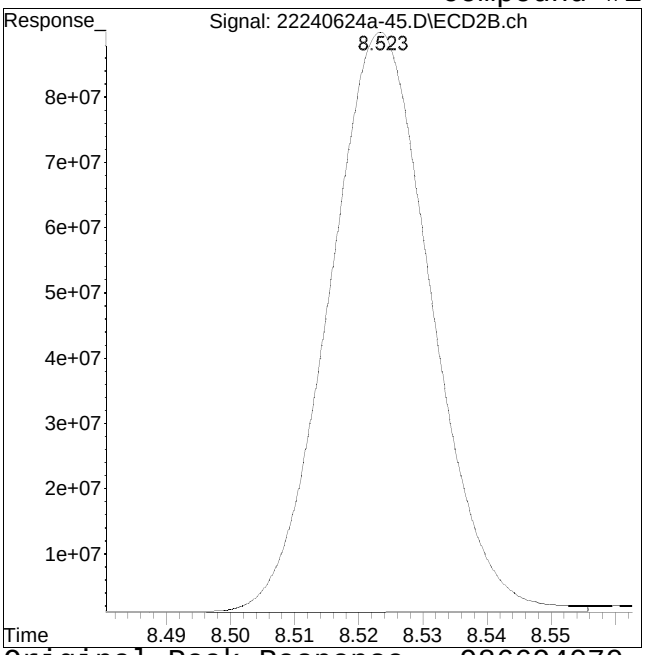


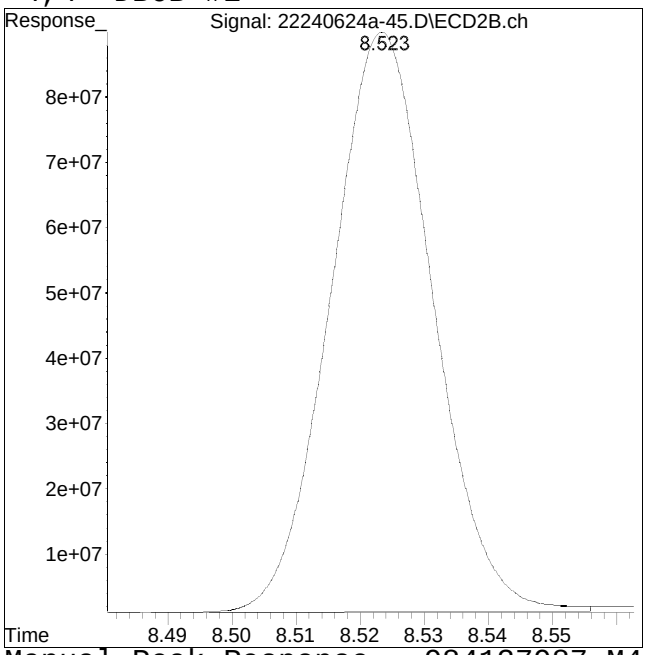
Original Peak Response = 905947651 Manual Peak Response = 904862680 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240624QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240624a-45.D Operator : pest22:jag
Date Inj'd : 6/25/2024 2:35 Instrument : Pest22
Sample : L2434679-12,42,, Quant Date : 6/25/2024 6:49 am

Compound #14: 4,4'-DBOB #2



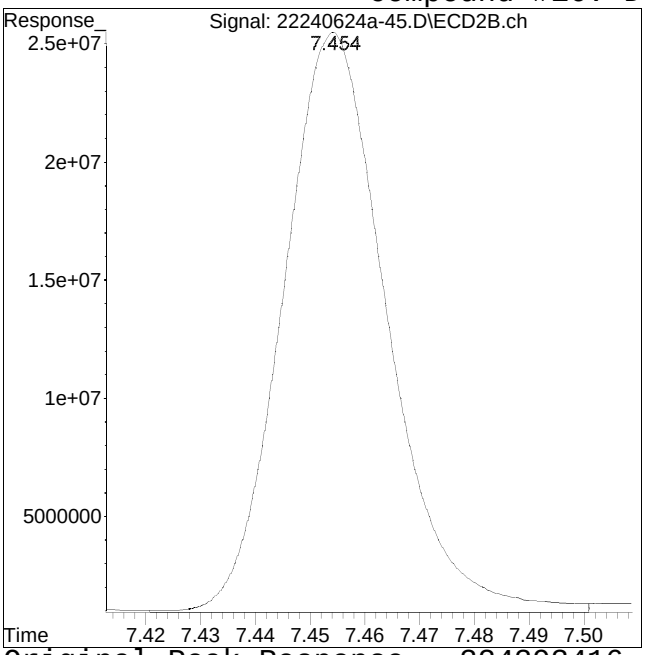


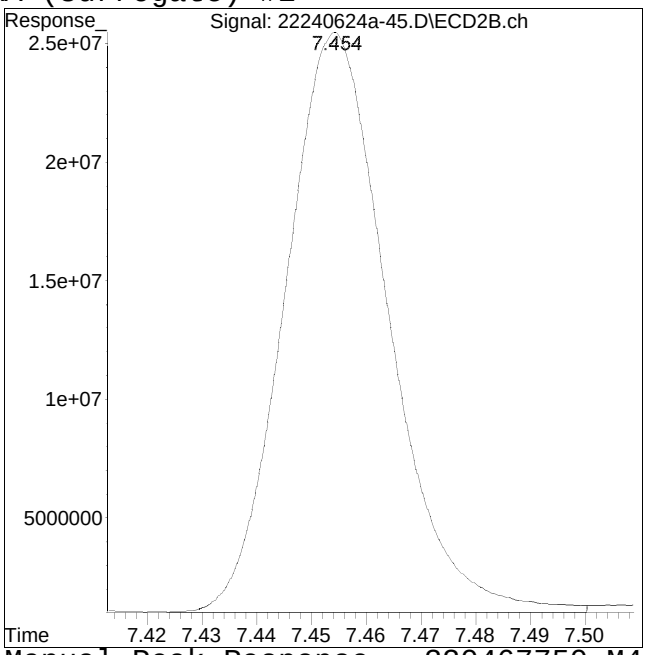
Original Peak Response = 986694070 Manual Peak Response = 984137987 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240624QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240624a-45.D Operator : pest22:jag
Date Inj'd : 6/25/2024 2:35 Instrument : Pest22
Sample : L2434679-12,42,, Quant Date : 6/25/2024 6:49 am

Compound #16: DCAA (surrogate) #2





Original Peak Response = 324393416 Manual Peak Response = 320467750 M4
M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest22\2024\240624a\
Data File : 22240624a-46.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 25 Jun 2024 02:53
Operator : pest22:jag
Sample : L2434679-14,42,,
Misc : wg1938492,WG1938239,ical21040
ALS Vial : 46 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 25 06:49:36 2024
Quant Method : I:\PEST\Pest22\2024\240624a\Herb22_2024_04_12_mgL_ICAL21040.m
Quant Title : herb
QLast Update : Sun Jun 23 09:11:26 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PEST\Pest22\2024\240624a\22240624a-36.D
Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	mg/l	mg/l
Internal Standards						
1) i 4,4'-DBOB	8.528	8.523	894.3E6	978.6E6	0.250M3	0.250M3
Standard Area 1 : #1 = 921040679				Recovery =	97.10%	
Standard Area 1 : #2 = 1001798454				Recovery =	97.69%	
System Monitoring Compounds						
3) s DCAA (surrog	6.988	7.455	239.3E6	231.6E6	0.325	0.292M4
Spiked Amount	0.500	Range 30 - 150		Recovery =	65.00%	58.40%
Target Compounds						
8) t 2,4-D	0.000	0.000	0	0	N.D. d	N.D. d
9) t 2,4,5-TP (Si	0.000	0.000	0	0	N.D. d	N.D. d
10) t 2,4,5-T	0.000	0.000	0	0	N.D. d	N.D. d
SemiQuant Compounds - Not Calibrated on this Instrument						

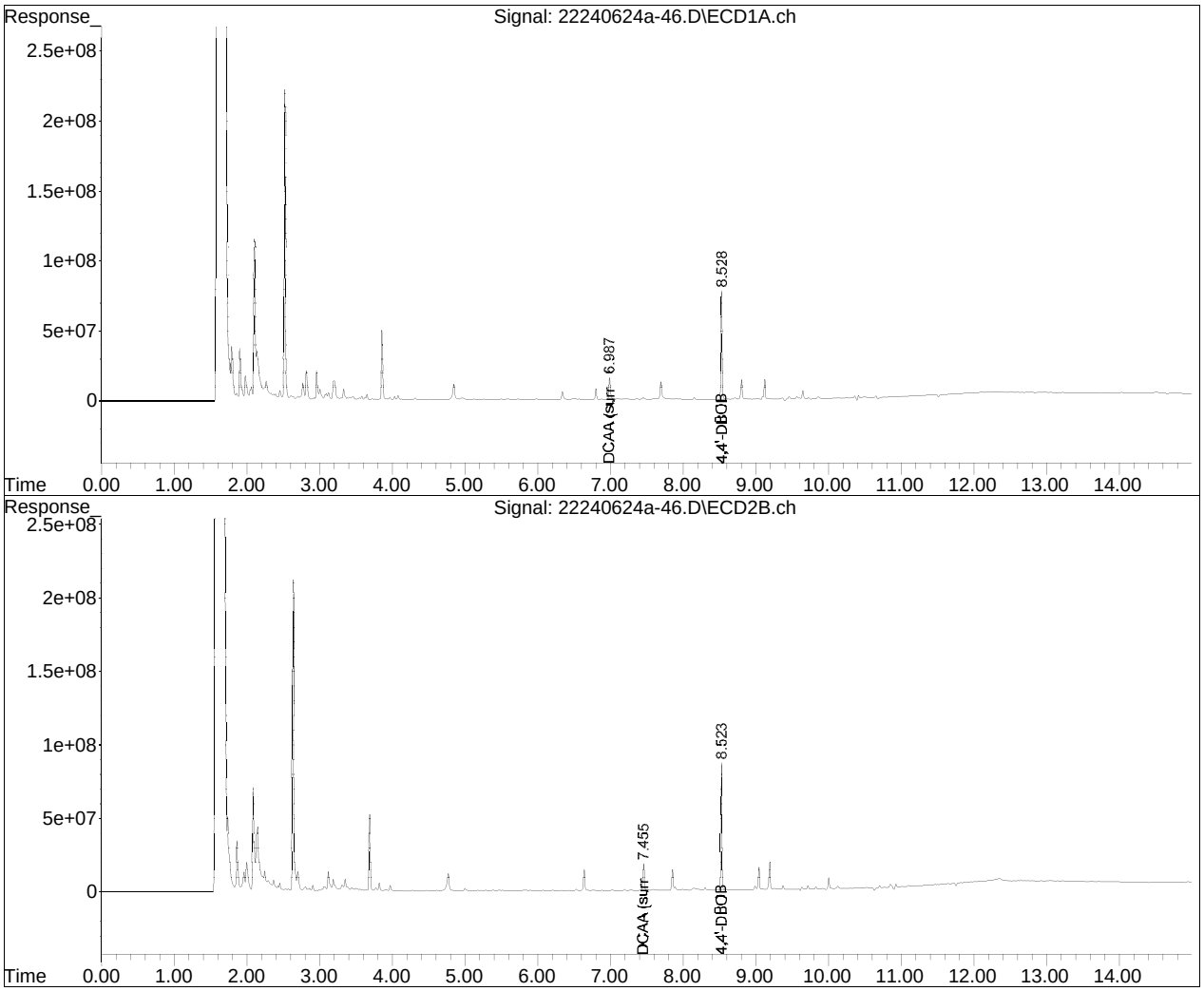
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listeda\22240624a-36.D•

Data Path : I:\PEST\Pest22\2024\240624a\
Data File : 22240624a-46.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 25 Jun 2024 02:53
Operator : pest22:jag
Sample : L2434679-14,42,,
Misc : wg1938492,WG1938239,ical21040
ALS Vial : 46 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 25 06:49:36 2024
Quant Method : I:\PEST\Pest22\2024\240624a\Herb22_2024_04_12_mgL_ICAL21040.m
Quant Title : herb
QLast Update : Sun Jun 23 09:11:26 2024
Response via : Initial Calibration
Integrator: ChemStation

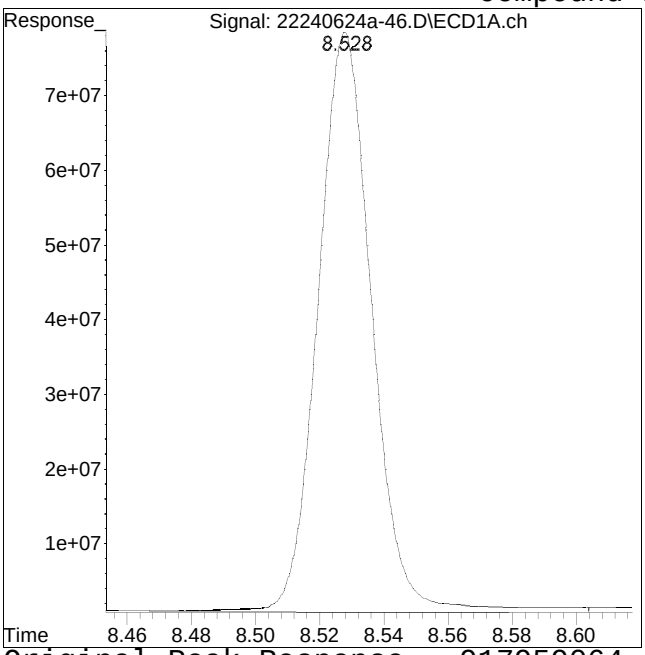
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

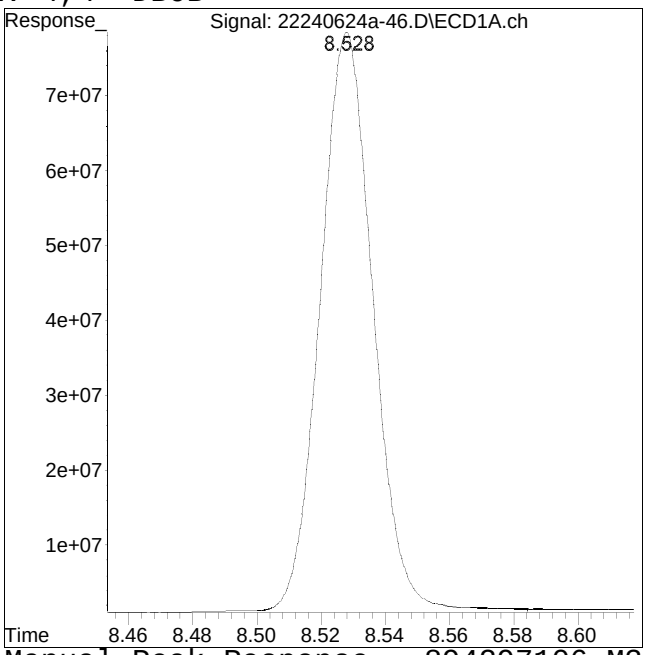


Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240624QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240624a-46.D Operator : pest22:jag
Date Inj'd : 6/25/2024 2:53 Instrument : Pest22
Sample : L2434679-14,42,, Quant Date : 6/25/2024 6:49 am

Compound #1: 4,4'-DBOB



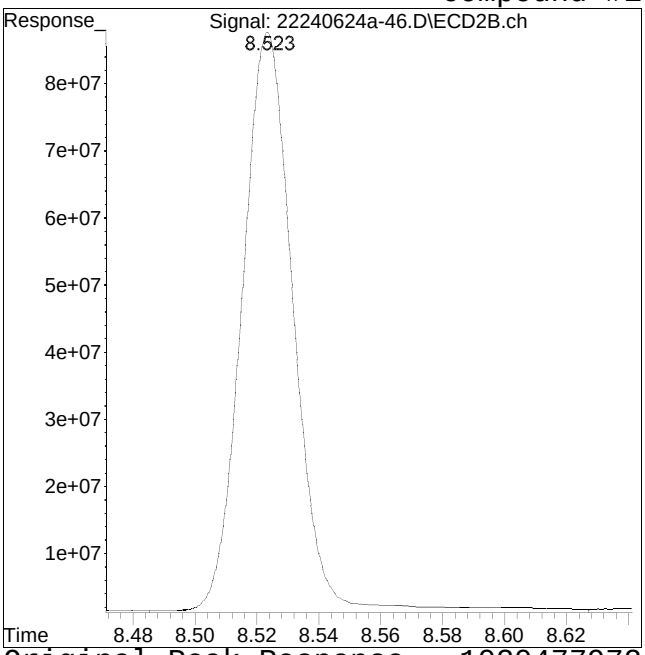


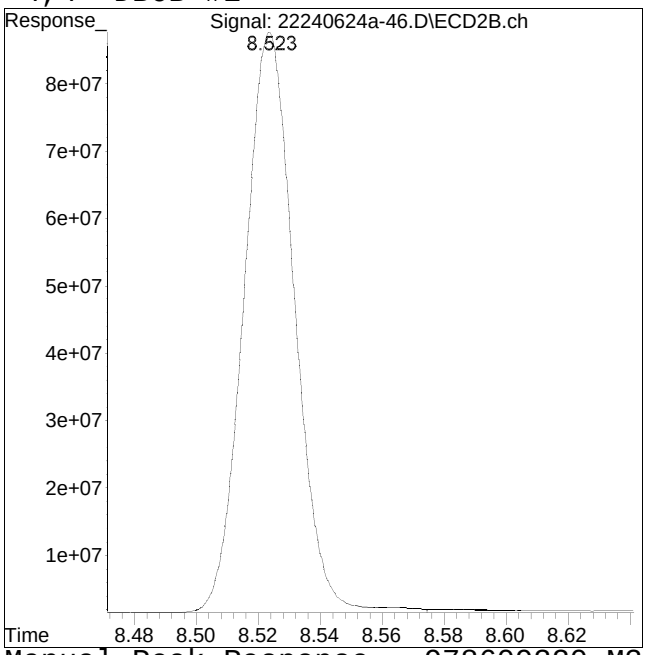
Original Peak Response = 917959064 Manual Peak Response = 894297106 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240624QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240624a-46.D Operator : pest22:jag
Date Inj'd : 6/25/2024 2:53 Instrument : Pest22
Sample : L2434679-14,42,, Quant Date : 6/25/2024 6:49 am

Compound #14: 4,4'-DBOB #2



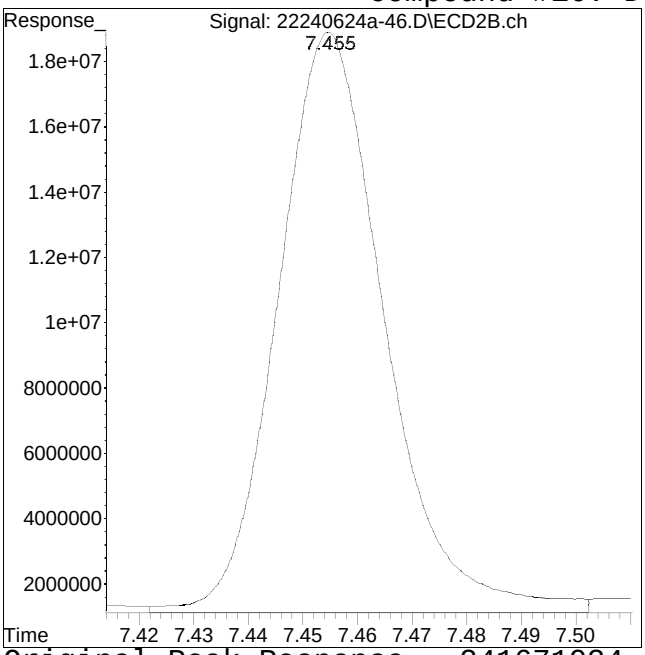


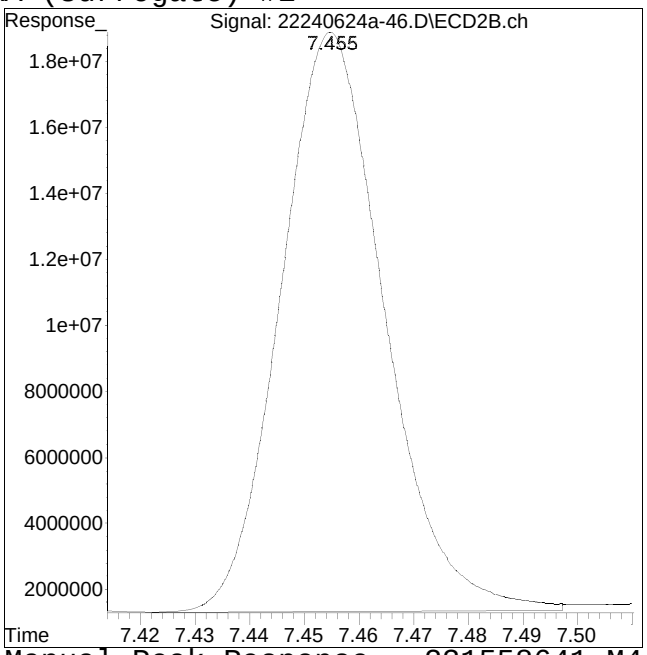
Original Peak Response = 1020477972 Manual Peak Response = 978609320 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240624QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240624a-46.D Operator : pest22:jag
Date Inj'd : 6/25/2024 2:53 Instrument : Pest22
Sample : L2434679-14,42,, Quant Date : 6/25/2024 6:49 am

Compound #16: DCAA (surrogate) #2





Original Peak Response = 241671934 Manual Peak Response = 231558641 M4
M4 = Poor automated baseline construction.

Herbicides Standards Data

Initial Calibration

Initial Calibration Summary
Form 6
Pesticides

Client	**: Alpha Geoscience**	**Lab Number**	**: L2434679**
Project Name	**: RANCO MINE**	**Project Number**	**: 12123**
Instrument ID	**: PEST22**	**Ical Ref**	**: ICAL21040**
Calibration dates	**: 04/12/24 06:35 04/12/24 08:08**		

Calibration Files

1 =22240412i-02.D 2 =22240412i-03.D 3 =22240412i-04.D 4 =22240412i-05.D 5 =22240412i-06.D

6 =22240412i-07.D

		Compound	1	2	3	4	5	6	Avg	%RSD
1)	i	4,4'-DBOB	----------ISTD----------							
2)	t	Dalapon	0.224	0.229	0.218	0.205	0.206	0.187	0.211	7.33
3)	s	DCAA (surrogate)	0.248	0.229	0.217	0.197	0.181	0.163	0.206	15.37
4)	t	Dicamba	0.705	0.659	0.625	0.559	0.513	0.474	0.589	15.06
5)	t	MCPP	0.000	0.001	0.001	0.001	0.001	0.001	0.001	4.59
6)	t	MCPA	0.001	0.001	0.001	0.001	0.001	0.001	0.001	15.28
7)	t	Dichloroprop	0.239	0.220	0.206	0.182	0.164	0.147	0.193	18.07
8)	t	2,4-D	0.284	0.268	0.254	0.230	0.210	0.192	0.240	14.63
9)	t	2,4,5-TP (Silvex)	0.994	0.955	0.925	0.842	0.772	0.717	0.868	12.56
10)	t	2,4,5-T	0.962	0.932	0.897	0.832	0.768	0.727	0.853	10.95
11)	t	2,4-DB	0.161	0.148	0.140	0.124	0.113	0.106	0.132	16.22
12)	t	Dinoseb	0.550	0.532	0.519	0.484	0.447	0.424	0.493	10.18

Initial Calibration Summary
Form 6
Pesticides

Client	**: Alpha Geoscience**	**Lab Number**	**: L2434679**
Project Name	**: RANCO MINE**	**Project Number**	**: 12123**
Instrument ID	**: PEST22**	**Ical Ref**	**: ICAL21040**
Calibration dates	**: 04/12/24 06:35 04/12/24 08:08**		

Signal #2 Calibration Files

1 =22240412i-02.D 2 =22240412i-03.D 3 =22240412i-04.D 4 =22240412i-05.D 5 =22240412i-06.D

6 =22240412i-07.D

		Compound	1	2	3	4	5	6	Avg	%RSD
1)	i	4,4'-DBOB	----------ISTD----------							
2)	t	Dalapon	0.191	0.209	0.201	0.210	0.189	0.184	0.197	5.60
3)	s	DCAA (surrogate)	0.245	0.224	0.210	0.190	0.178	0.169	0.203	14.35
4)	t	Dicamba	0.673	0.636	0.611	0.570	0.544	0.528	0.594	9.44
5)	t	MCPP	0.001	0.001	0.001	0.001	0.001	0.001	0.001	6.79
6)	t	MCPA	0.002	0.001	0.001	0.001	0.001	0.001	0.001	17.26
7)	t	Dichloroprop	0.231	0.214	0.199	0.179	0.168	0.161	0.192	14.37
8)	t	2,4-D	0.279	0.257	0.242	0.223	0.214	0.209	0.237	11.43
9)	t	2,4,5-TP (Sil	0.969	0.926	0.884	0.815	0.776	0.768	0.856	9.68
10)	t	2,4,5-T	0.931	0.887	0.852	0.793	0.763	0.759	0.831	8.49
11)	t	2,4-DB	0.163	0.151	0.143	0.133	0.127	0.126	0.141	10.41
12)	t	Dinoseb	0.544	0.520	0.500	0.473	0.454	0.455	0.491	7.46

Initial Calibration Summary
Form 6
Pesticides

Client	**: Alpha Geoscience**	**Lab Number**	**: L2434679**
Project Name	**: RANCO MINE**	**Project Number**	**: 12123**
Instrument ID	**: PEST16**	**Ical Ref**	**: ICAL21173**
Calibration dates	**: 05/21/24 18:01 05/21/24 19:34**		

Calibration Files

1 =16240521i-02.D 2 =16240521i-03.D 3 =16240521i-04.D 4 =16240521i-05.D 5 =16240521i-06.D

6 =16240521i-07.D

		Compound	1	2	3	4	5	6	Avg		%RSD
1)	i	4,4'-DBOB	----------ISTD----------								
2)	t	Dalapon	0.185	0.167	0.151	0.144	0.144	0.140	*L		0.9999
3)	s	DCAA (surrogate)	0.107	0.095	0.086	0.079	0.075	0.072	*L		0.9992
4)	t	Dicamba	0.435	0.398	0.386	0.380	0.378	0.382	0.393		5.53
5)	t	MCPP		0.000	0.000	0.000	0.000	0.000	*L		0.9975
6)	t	MCPA		0.000	0.000	0.000	0.000	0.000	*L		0.9980
7)	t	Dichloroprop	0.138	0.120	0.112	0.103	0.098	0.096	0.111		14.43
8)	t	2,4-D	0.159	0.143	0.133	0.124	0.118	0.117	0.132		12.37
9)	t	2,4,5-TP (Silvex)	0.804	0.774	0.772	0.777	0.772	0.797	0.783		1.81
10)	t	2,4,5-T	0.700	0.678	0.672	0.675	0.674	0.700	0.683		1.93
11)	t	2,4-DB	0.065	0.067	0.066	0.064	0.063	0.065	0.065		2.21
12)	t	Dinoseb	0.537	0.503	0.498	0.496	0.493	0.513	0.507		3.28

Initial Calibration Summary
Form 6
Pesticides

Client	**: Alpha Geoscience**	**Lab Number**	**: L2434679**
Project Name	**: RANCO MINE**	**Project Number**	**: 12123**
Instrument ID	**: PEST16**	**Ical Ref**	**: ICAL21173**
Calibration dates	**: 05/21/24 18:01 05/21/24 19:34**		

Signal #2 Calibration Files

1 =16240521i-02.D 2 =16240521i-03.D 3 =16240521i-04.D 4 =16240521i-05.D 5 =16240521i-06.D

6 =16240521i-07.D

		Compound	1	2	3	4	5	6	Avg	%RSD
1)	i	4,4'-DBOB	----------ISTD----------							
2)	t	Dalapon	0.229	0.212	0.187	0.173	0.164	0.153	*L	0.9981
3)	s	DCAA (surrogate)	0.243	0.214	0.194	0.172	0.159	0.149	*L	0.9974
4)	t	Dicamba	0.686	0.616	0.575	0.524	0.497	0.480	0.563	13.95
5)	t	MCPP		0.001	0.001	0.001	0.001	0.001	*L	0.9934
6)	t	MCPA		0.002	0.002	0.002	0.001	0.001	*L	0.9915
7)	t	Dichloroprop	0.214	0.194	0.180	0.162	0.151	0.145	0.174	15.28
8)	t	2,4-D	0.271	0.238	0.220	0.200	0.188	0.184	0.217	15.44
9)	t	2,4,5-TP (Sil	0.891	0.832	0.788	0.738	0.699	0.692	0.773	10.13
10)	t	2,4,5-T	0.760	0.723	0.703	0.671	0.649	0.667	0.696	5.98
11)	t	2,4-DB	0.124	0.120	0.114	0.112	0.107	0.107	0.114	5.81
12)	t	Dinoseb	0.491	0.455	0.431	0.399	0.375	0.376	0.421	11.02

Response Factor Report Pest22

Method Path : I:\PEST\Pest22\2024\240412ical\
Method File : Herb22_2024_04_12_mgL_ICAL.m
Title : herb
Last Update : Fri Apr 12 09:48:26 2024
Response Via : Initial Calibration

Calibration Files
1 =22240412i-02.D 2 =22240412i-03.D 3 =22240412i-04.D 4 =22240412i-05.D 5 =22240412i-06.D
6 =22240412i-07.D

		Compound	1	2	3	4	5	6	Avg	%RSD
1)	i	4,4'-DBOB	----------ISTD----------							
2)	t	Dalapon	0.224	0.229	0.218	0.205	0.206	0.187	0.211	7.33
3)	s	DCAA (surrogate)	0.248	0.229	0.217	0.197	0.181	0.163	0.206	15.37
4)	t	Dicamba	0.705	0.659	0.625	0.559	0.513	0.474	0.589	15.06
5)	t	MCPP	0.000	0.001	0.001	0.001	0.001	0.001	0.001	4.59
6)	t	MCPA	0.001	0.001	0.001	0.001	0.001	0.001	0.001	15.28
7)	t	Dichloroprop	0.239	0.220	0.206	0.182	0.164	0.147	0.193	18.07
8)	t	2,4-D	0.284	0.268	0.254	0.230	0.210	0.192	0.240	14.63
9)	t	2,4,5-TP (Sil...	0.994	0.955	0.925	0.842	0.772	0.717	0.868	12.56
10)	t	2,4,5-T	0.962	0.932	0.897	0.832	0.768	0.727	0.853	10.95
11)	t	2,4-DB	0.161	0.148	0.140	0.124	0.113	0.106	0.132	16.22
12)	t	Dinoseb	0.550	0.532	0.519	0.484	0.447	0.424	0.493	10.18

Signal #2 Calibration Files
1 =22240412i-02.D 2 =22240412i-03.D 3 =22240412i-04.D 4 =22240412i-05.D 5 =22240412i-06.D
6 =22240412i-07.D

		Compound	1	2	3	4	5	6	Avg	%RSD
1)	i	4,4'-DBOB	----------ISTD----------							
2)	t	Dalapon	0.191	0.209	0.201	0.210	0.189	0.184	0.197	5.60
3)	s	DCAA (surrogate)	0.245	0.224	0.210	0.190	0.178	0.169	0.203	14.35
4)	t	Dicamba	0.673	0.636	0.611	0.570	0.544	0.528	0.594	9.44
5)	t	MCPP	0.001	0.001	0.001	0.001	0.001	0.001	0.001	6.79
6)	t	MCPA	0.002	0.001	0.001	0.001	0.001	0.001	0.001	17.26
7)	t	Dichloroprop	0.231	0.214	0.199	0.179	0.168	0.161	0.192	14.37
8)	t	2,4-D	0.279	0.257	0.242	0.223	0.214	0.209	0.237	11.43
9)	t	2,4,5-TP (Sil...	0.969	0.926	0.884	0.815	0.776	0.768	0.856	9.68
10)	t	2,4,5-T	0.931	0.887	0.852	0.793	0.763	0.759	0.831	8.49
11)	t	2,4-DB	0.163	0.151	0.143	0.133	0.127	0.126	0.141	10.41

Method Path : I:\PEST\Pest22\2024\240412ical\
Method File : Herb22_2024_04_12_mgL_ICAL.m
Title : herb
Last Update : Fri Apr 12 09:48:26 2024
Response Via : Initial Calibration

Calibration Files
1 =22240412i-02.D 2 =22240412i-03.D 3 =22240412i-04.D 4 =22240412i-05.D 5 =22240412i-06.D
6 =22240412i-07.D

	Compound	1	2	3	4	5	6	Avg	%RSD
12) t	Dinoseb	0.544	0.520	0.500	0.473	0.454	0.455	0.491	7.46

(#) = Out of Range

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest22\2024\240412ical\
Data File : 22240412i-02.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 12 Apr 2024 06:35 am
Operator : pest22:peg
Sample : il1herb,42e,,pp11464 L0.005/5 (Sig #1); ilherb42e,,pp11464 L0.005/5 (Sig #2)
Misc : wg1907956,
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Apr 12 08:57:47 2024
Quant Method : I:\PEST\Pest22\2024\240412ical\Herb22_2024_04_12_mgL_ICAL.m
Quant Title : herb
QLast Update : Fri Apr 12 08:57:10 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

		Compound	RT#1	RT#2	Resp#1	Resp#2	mg/l	mg/l
		Internal Standards						
1)	i	4,4'-DBOB	8.574	8.565	756.9E6	704.1E6	0.250M4	0.250M4
		System Monitoring Compounds						
3)	s	DCAA (surrog	7.029	7.496	35328399	32431372	0.059M4	0.059M4
		Spiked Amount	0.500	Range 30 - 150		Recovery =	11.80%#	11.80%#
		Target Compounds						
2)	t	Dalapon	2.421	2.418	30900834	24425609	0.049M4	0.044M4
4)	t	Dicamba	7.214	7.677	100.2E6	89031745	0.058M4	0.055M4
5)	t	MCPP	7.415	7.788	6799605	10777388	4.240M4	5.312M4
6)	t	MCPA	7.560	8.014	16578581	20607835	5.923M3	6.238M4
7)	t	Dichloroprop	7.916	8.331	34063325	30623615	0.061M4	0.059M4
8)	t	2,4-D	8.125	8.603	40438671	36965903	0.058M4	0.057M4
9)	t	2,4,5-TP (Si	8.842	9.260	143.0E6	129.6E6	0.056M4	0.055M4
10)	t	2,4,5-T	9.057	9.547	138.4E6	124.5E6	0.055M4	0.055M4
11)	t	2,4-DB	9.465	9.908	23445909	22049037	0.061M4	0.057M4
12)	t	Dinoseb	10.217	10.131	79147594	72789265	0.054M4	0.054M4

SemiQuant Compounds - Not Calibrated on this Instrument

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest22\2024\240412ical\
Data File : 22240412i-02.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 12 Apr 2024 06:35 am
Operator : pest22:peg
Sample : il1herb,42e,,pp11464 L0.005/5 (Sig #1); ilherb42e,,pp11464 L0.005/5 (Sig #2)
Misc : wg1907956,
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Apr 12 08:57:47 2024
Quant Method : I:\PEST\Pest22\2024\240412ical\Herb22_2024_04_12_mgL_ICAL.m
Quant Title : herb
QLast Update : Fri Apr 12 08:57:10 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	mg/l	mg/l

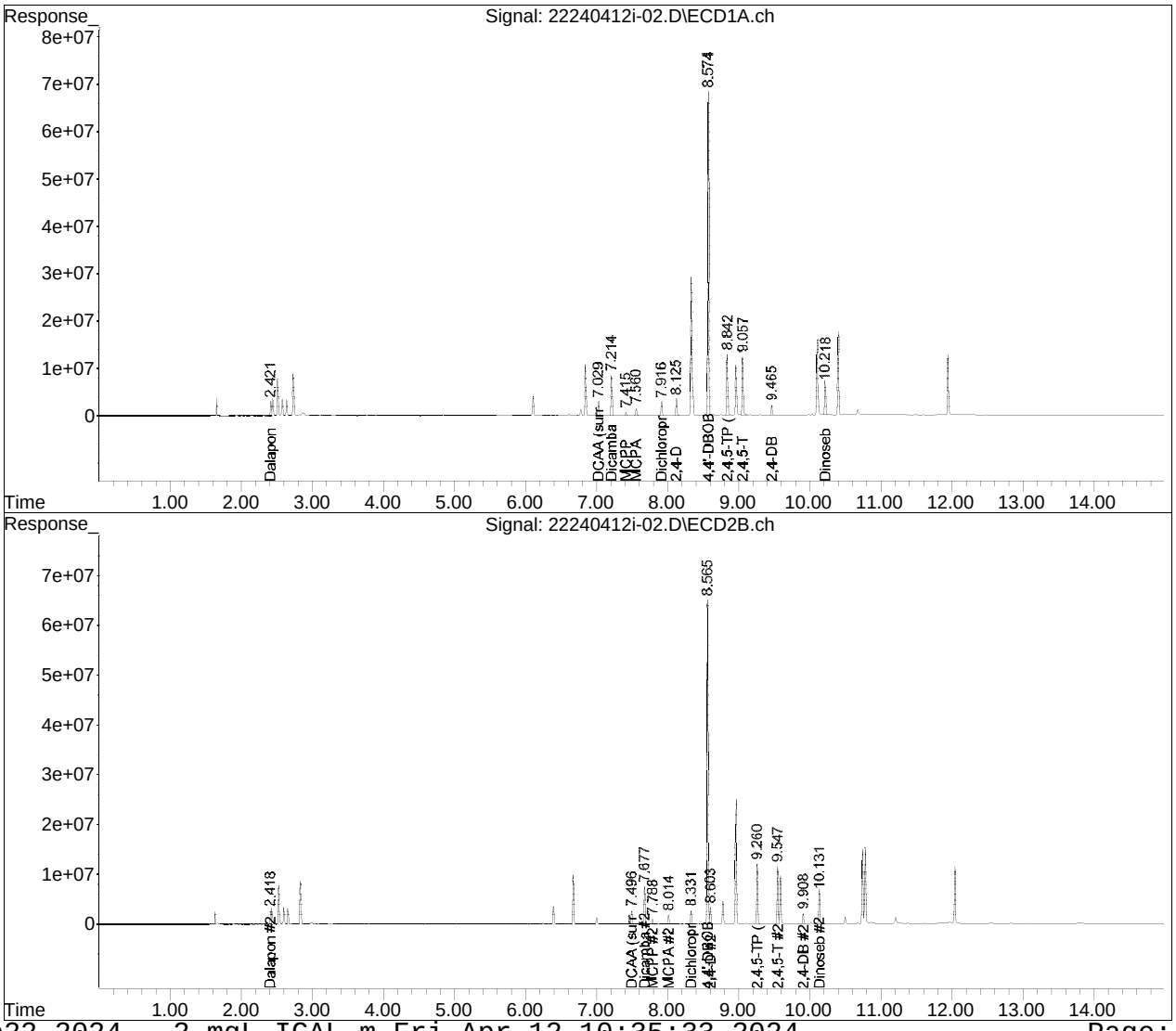
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest22\2024\240412ical\
Data File : 22240412i-02.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 12 Apr 2024 06:35 am
Operator : pest22:peg
Sample : il1herb,42e,,pp11464 L0.005/5 (Sig #1); ilherb42e,,pp11464 L0.005/
Misc : wg1907956,
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Apr 12 08:57:47 2024
Quant Method : I:\PEST\Pest22\2024\240412ical\Herb22_2024_04_12_mgL_ICAL.m
Quant Title : herb
QLast Update : Fri Apr 12 08:57:10 2024
Response via : Initial Calibration
Integrator: ChemStation

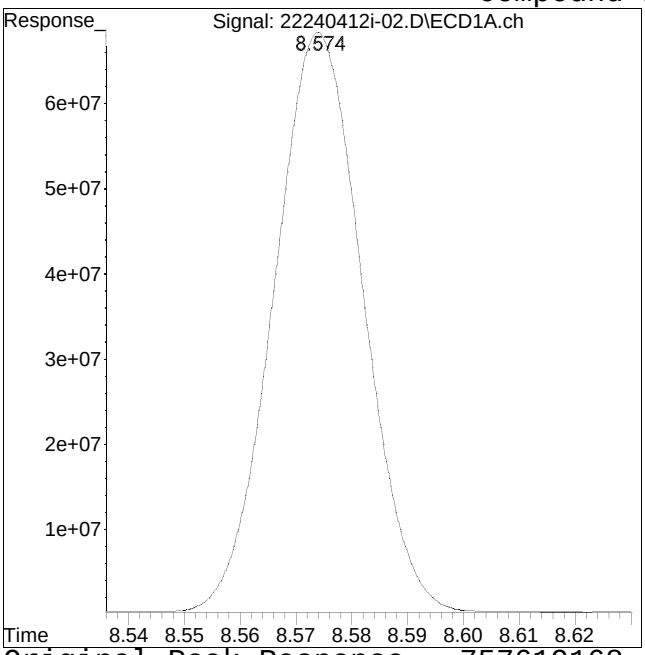
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



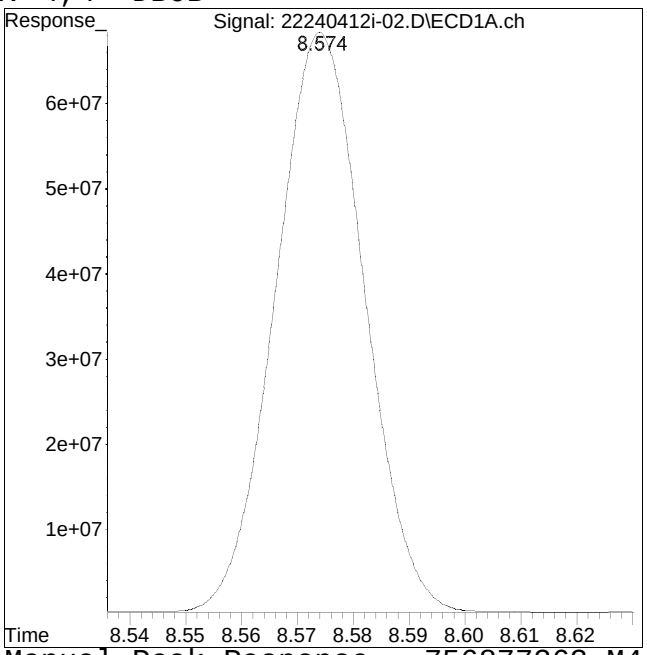
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-02.D Operator : pest22:peg
Date Inj'd : 4/12/2024 6:35 am Instrument : Pest22
Sample : il1herb,42e,,pp11464 L0.00Quant Date : 4/12/2024 8:57 am

Compound #1: 4,4'-DBOB



Original Peak Response = 757619168

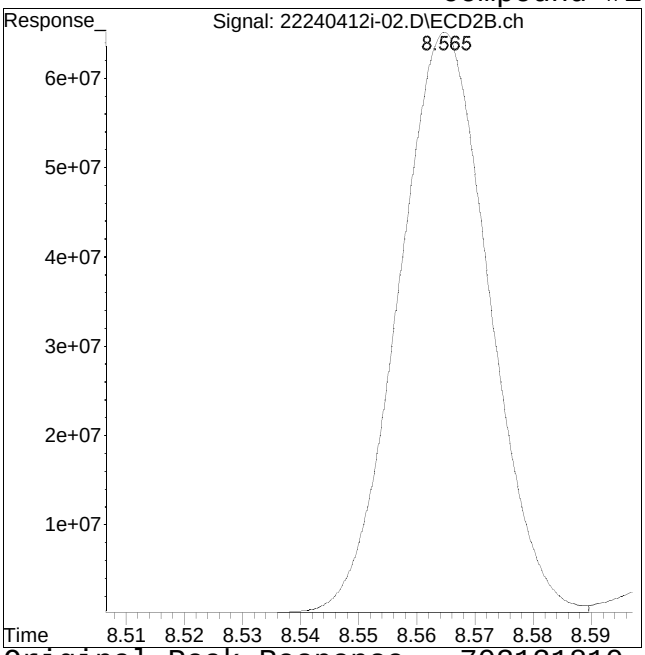


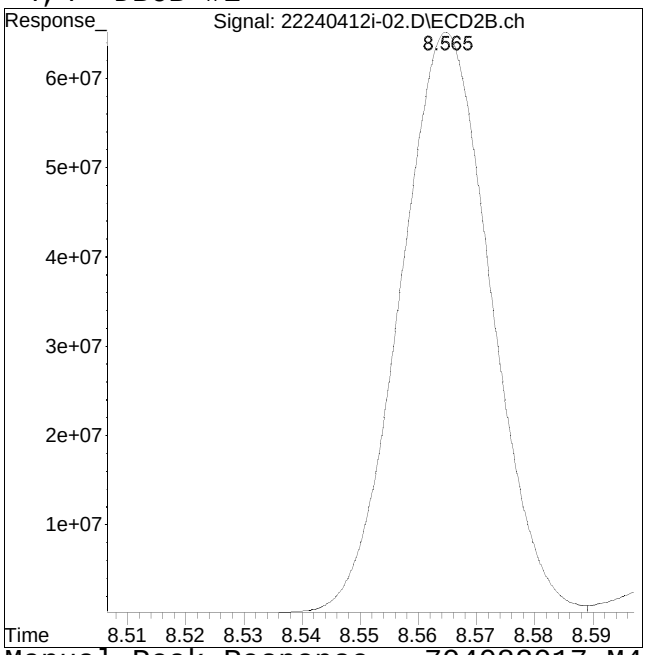
Manual Peak Response = 756877363 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-02.D Operator : pest22:peg
Date Inj'd : 4/12/2024 6:35 am Instrument : Pest22
Sample : il1herb,42e,,pp11464 L0.00Quant Date : 4/12/2024 8:57 am

Compound #14: 4,4'-DBOB #2



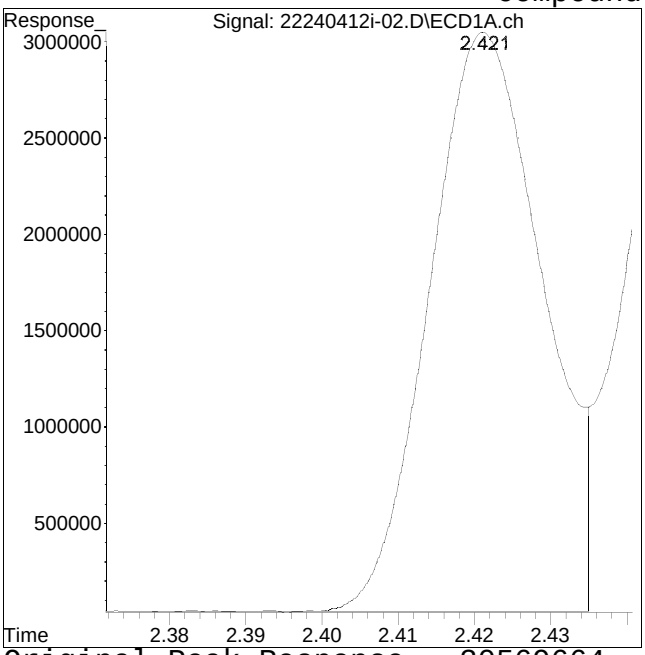


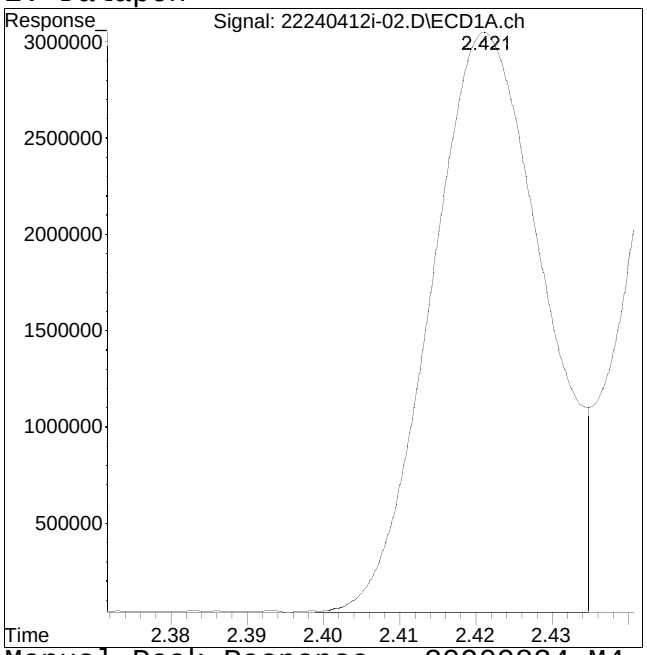
Original Peak Response = 703131810 Manual Peak Response = 704082017 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-02.D Operator : pest22:peg
Date Inj'd : 4/12/2024 6:35 am Instrument : Pest22
Sample : il1herb,42e,,pp11464 L0.00Quant Date : 4/12/2024 8:57 am

Compound #2: Dalapon



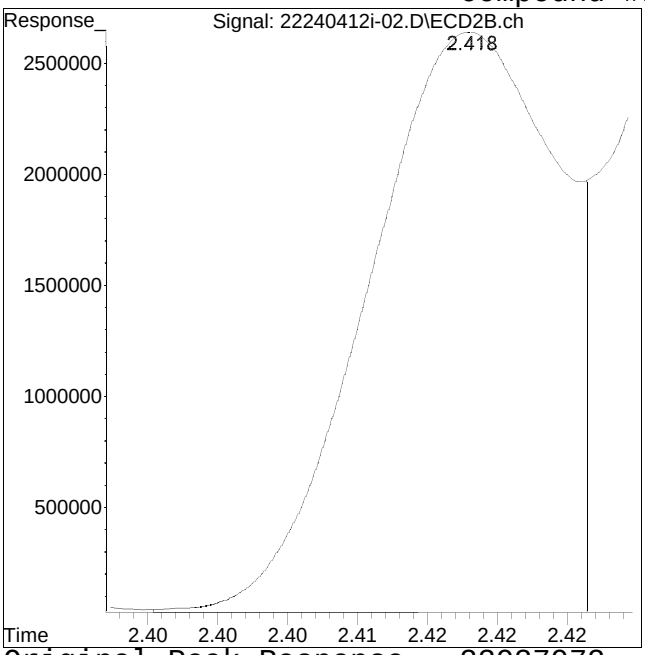


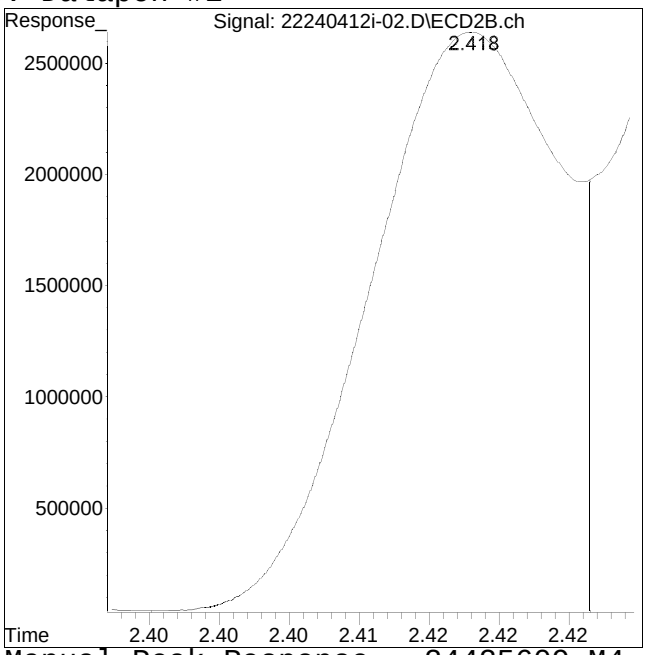
Original Peak Response = 30569664 Manual Peak Response = 30900834 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-02.D Operator : pest22:peg
Date Inj'd : 4/12/2024 6:35 am Instrument : Pest22
Sample : il1herb,42e,,pp11464 L0.00Quant Date : 4/12/2024 8:57 am

Compound #15: Dalapon #2



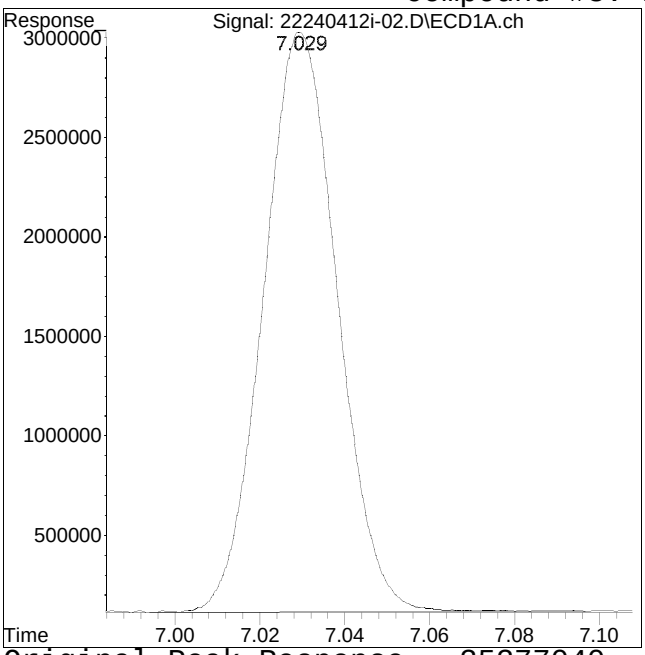


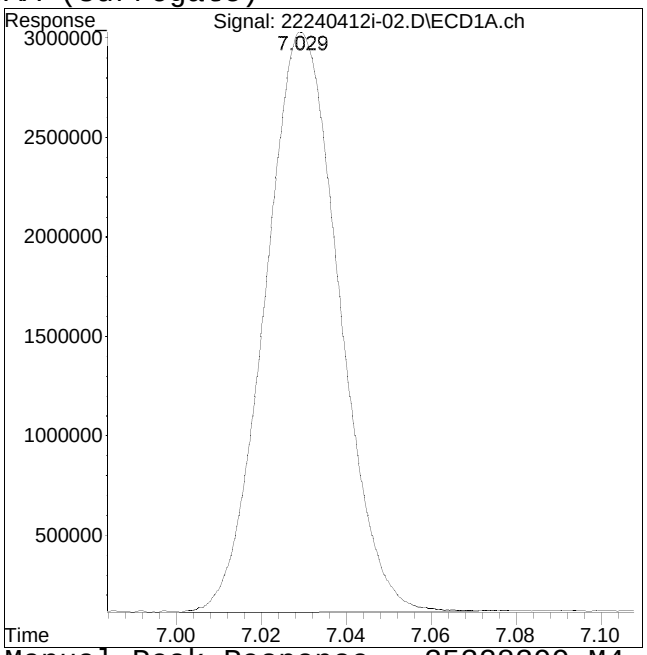
Original Peak Response = 23937972 Manual Peak Response = 24425609 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-02.D Operator : pest22:peg
Date Inj'd : 4/12/2024 6:35 am Instrument : Pest22
Sample : il1herb,42e,,pp11464 L0.00Quant Date : 4/12/2024 8:57 am

Compound #3: DCAA (surrogate)



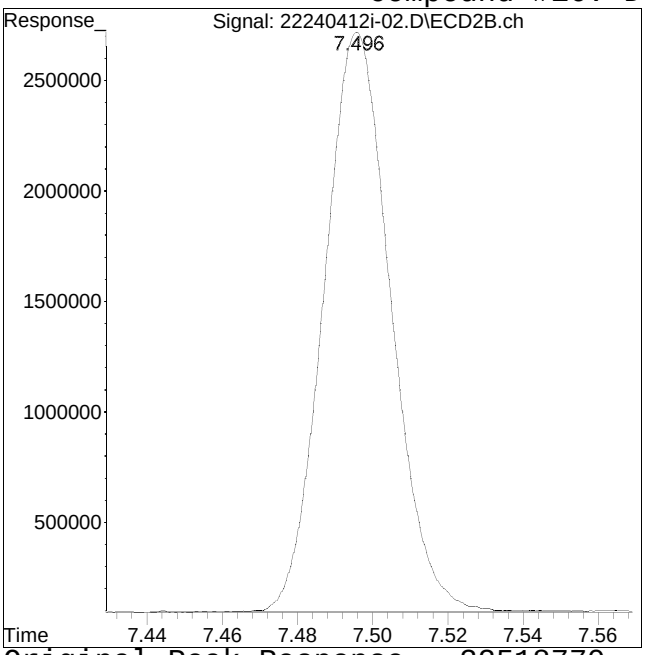


Original Peak Response = 35377040 Manual Peak Response = 35328399 M4
M4 = Poor automated baseline construction.

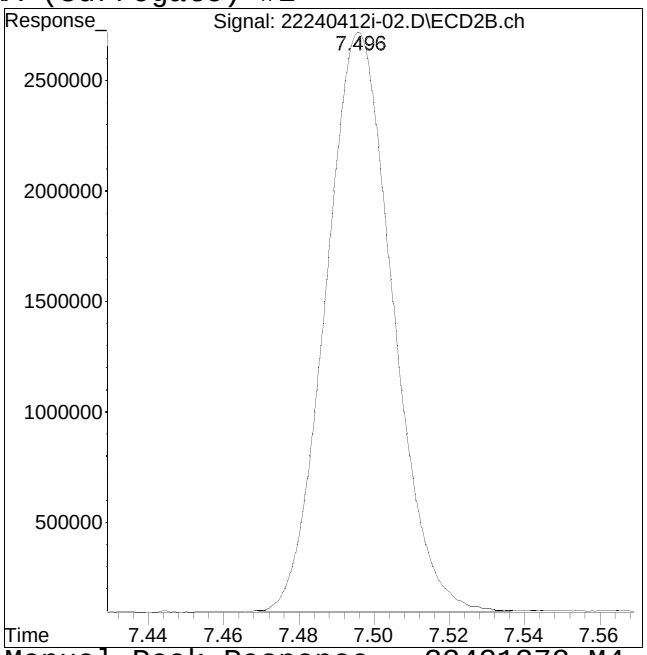
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-02.D Operator : pest22:peg
Date Inj'd : 4/12/2024 6:35 am Instrument : Pest22
Sample : il1herb,42e,,pp11464 L0.00Quant Date : 4/12/2024 8:57 am

Compound #16: DCAA (surrogate) #2



Original Peak Response = 32518770



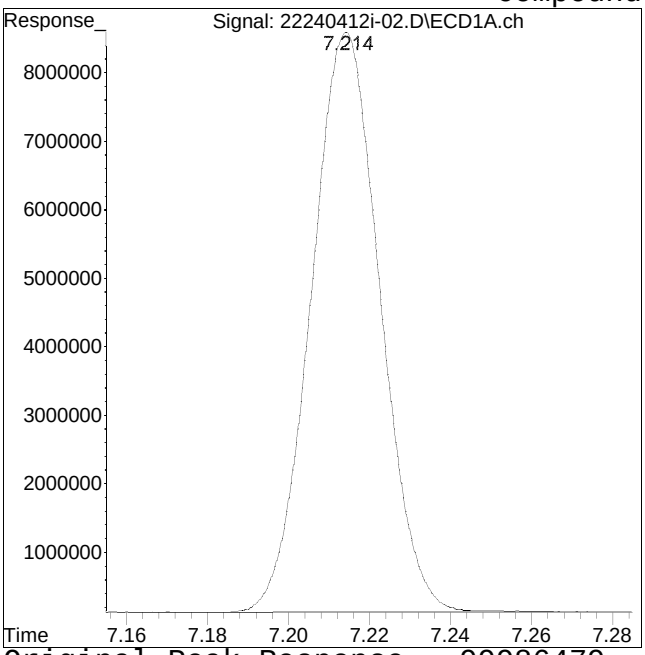
Manual Peak Response = 32431372 M4

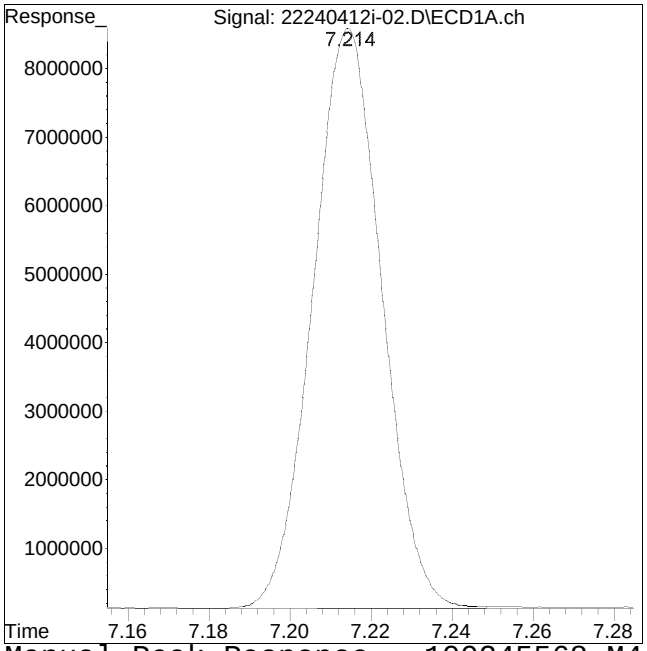
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-02.D Operator : pest22:peg
Date Inj'd : 4/12/2024 6:35 am Instrument : Pest22
Sample : il1herb,42e,,pp11464 L0.00Quant Date : 4/12/2024 8:57 am

Compound #4: Dicamba



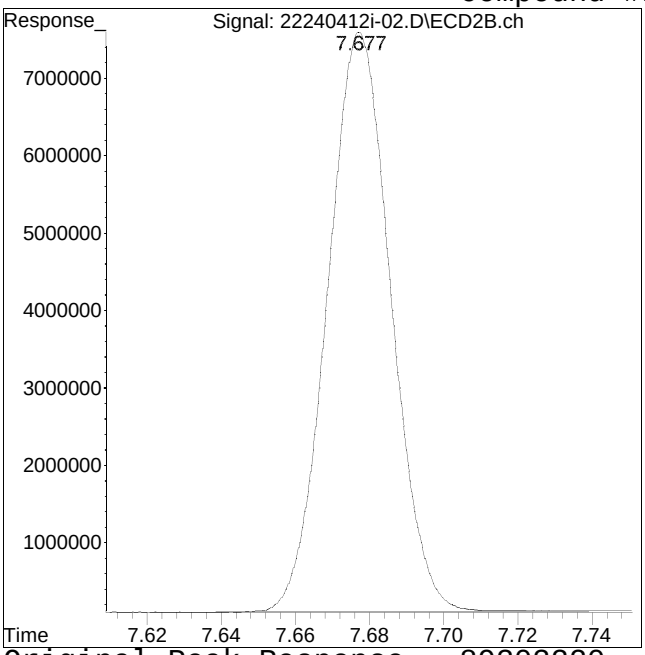


Original Peak Response = 99986479 Manual Peak Response = 100245568 M4
M4 = Poor automated baseline construction.

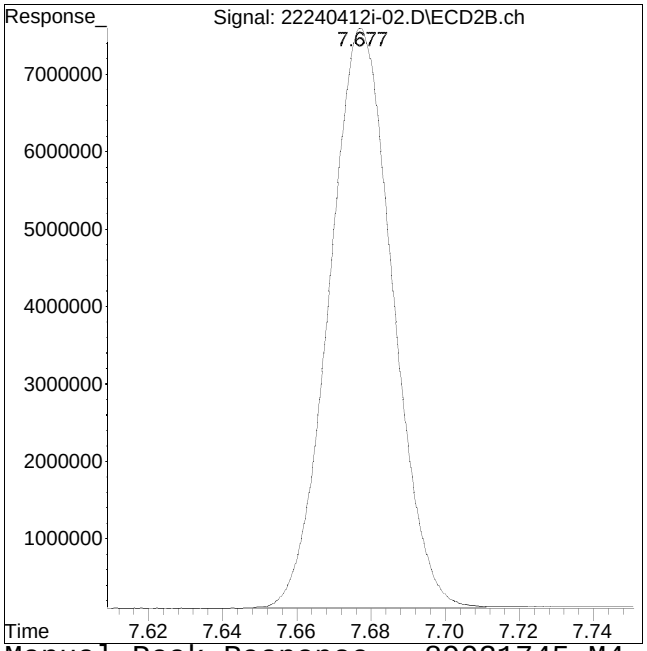
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-02.D Operator : pest22:peg
Date Inj'd : 4/12/2024 6:35 am Instrument : Pest22
Sample : il1herb,42e,,pp11464 L0.00Quant Date : 4/12/2024 8:57 am

Compound #17: Dicamba #2



Original Peak Response = 89303220



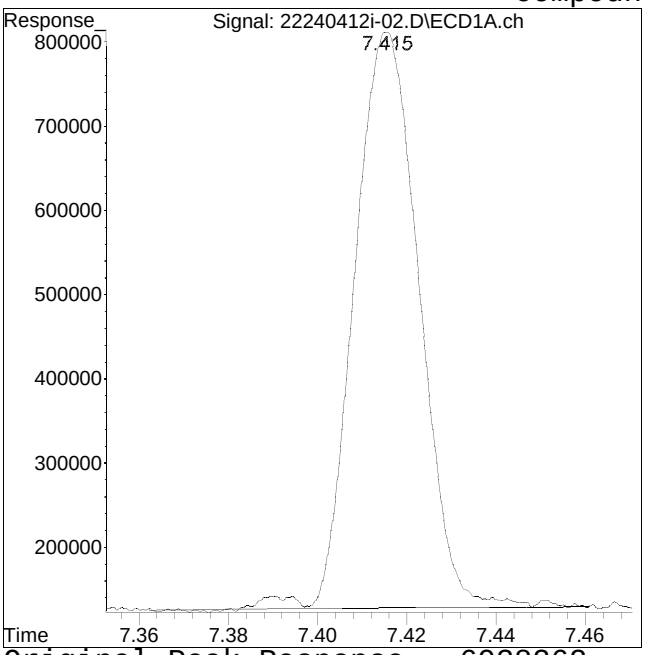
Manual Peak Response = 89031745 M4

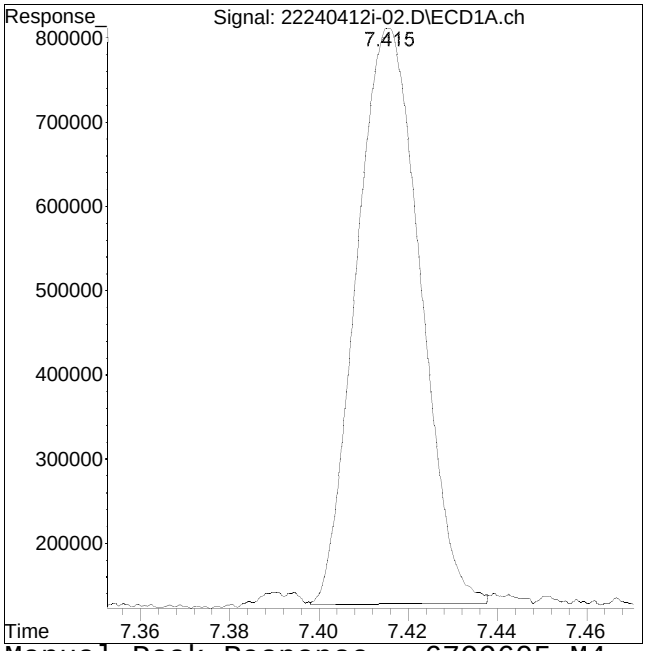
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-02.D Operator : pest22:peg
Date Inj'd : 4/12/2024 6:35 am Instrument : Pest22
Sample : il1herb,42e,,pp11464 L0.00Quant Date : 4/12/2024 8:57 am

Compound #5: MCPP



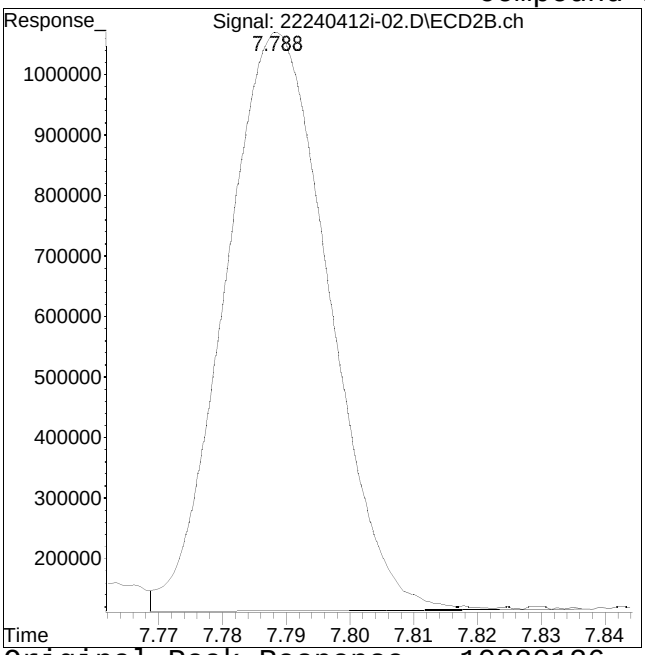


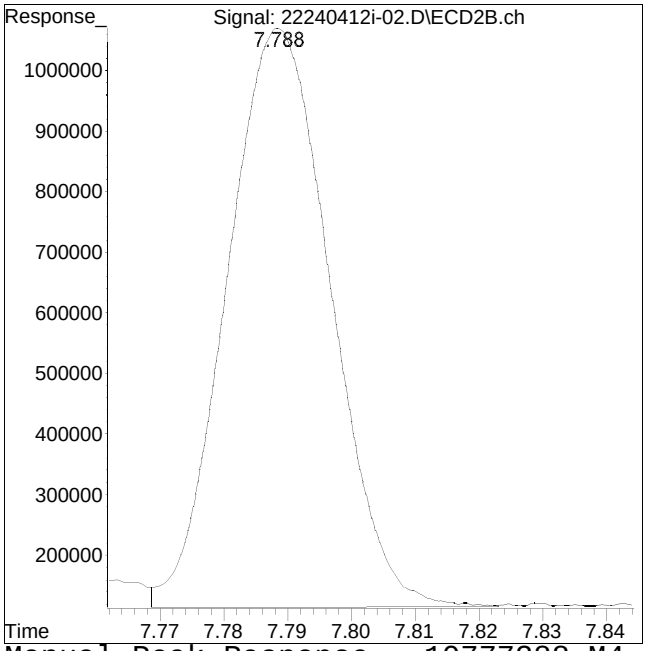
Original Peak Response = 6938262 Manual Peak Response = 6799605 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-02.D Operator : pest22:peg
Date Inj'd : 4/12/2024 6:35 am Instrument : Pest22
Sample : il1herb,42e,,pp11464 L0.00Quant Date : 4/12/2024 8:57 am

Compound #18: MCPP #2



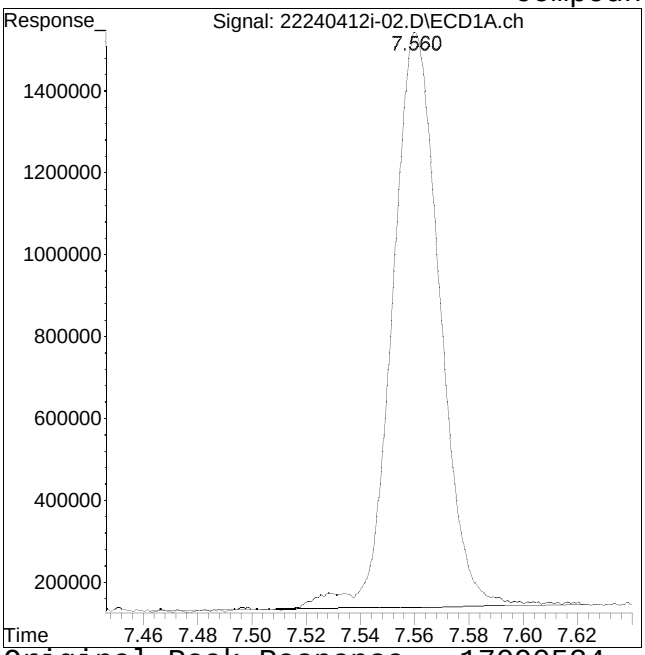


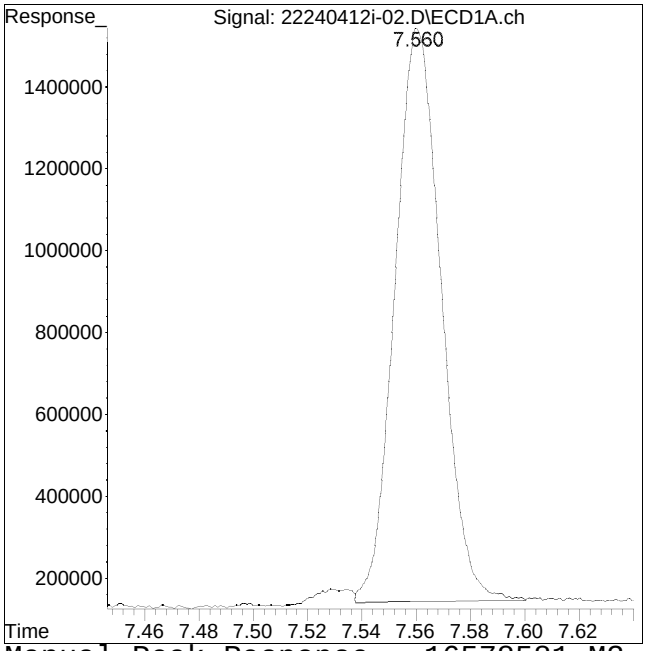
Original Peak Response = 10820126 Manual Peak Response = 10777388 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-02.D Operator : pest22:peg
Date Inj'd : 4/12/2024 6:35 am Instrument : Pest22
Sample : il1herb,42e,,pp11464 L0.00Quant Date : 4/12/2024 8:57 am

Compound #6: MCPA



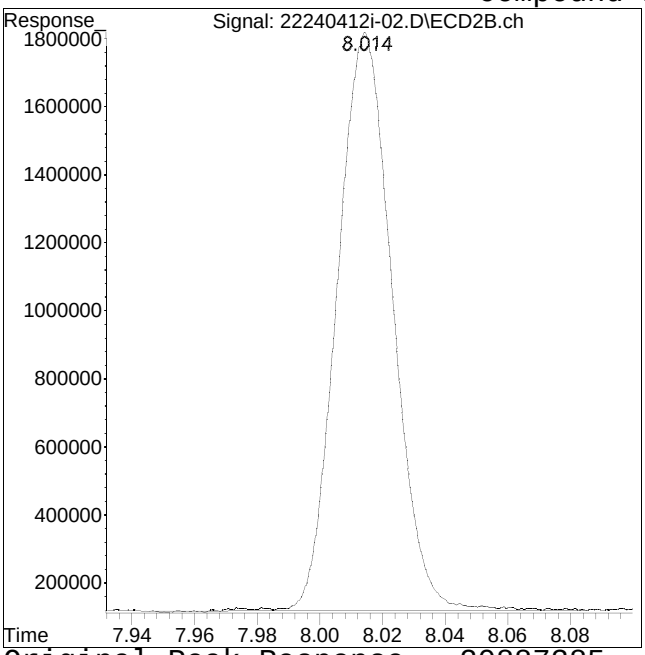


Original Peak Response = 17090534 Manual Peak Response = 16578581 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

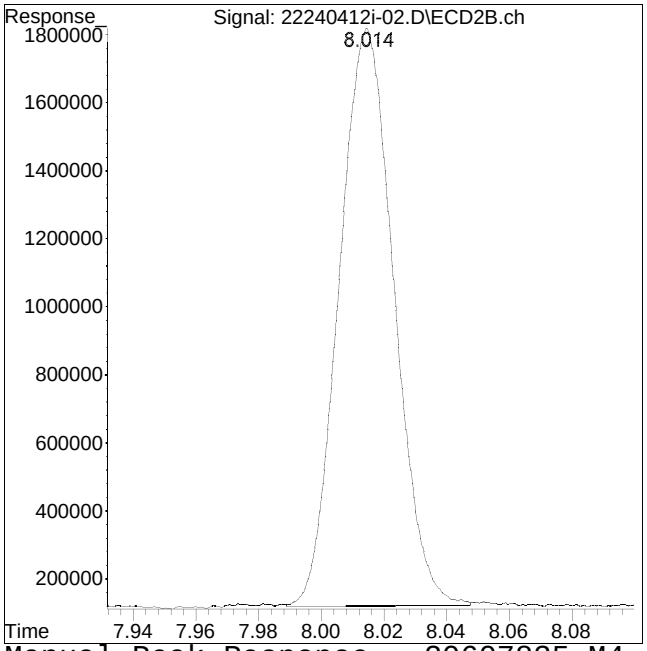
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-02.D Operator : pest22:peg
Date Inj'd : 4/12/2024 6:35 am Instrument : Pest22
Sample : il1herb,42e,,pp11464 L0.00Quant Date : 4/12/2024 8:57 am

Compound #19: MCPA #2



Original Peak Response = 20887385



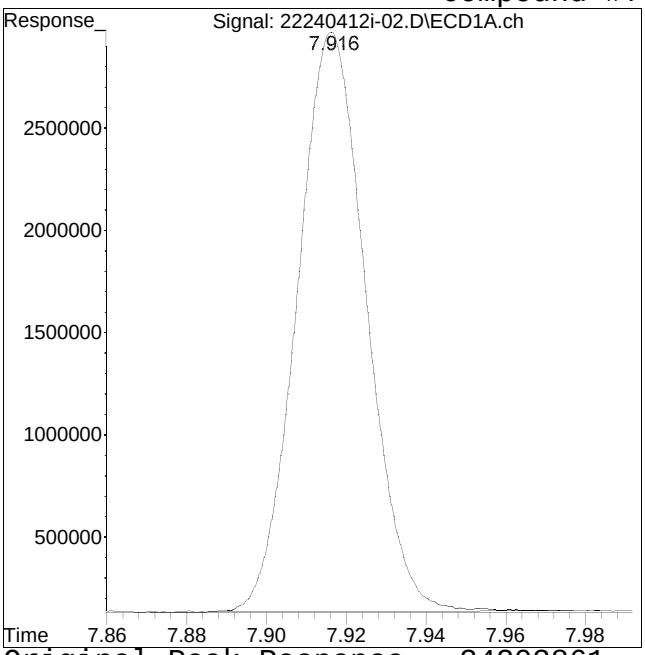
Manual Peak Response = 20607835 M4

M4 = Poor automated baseline construction.

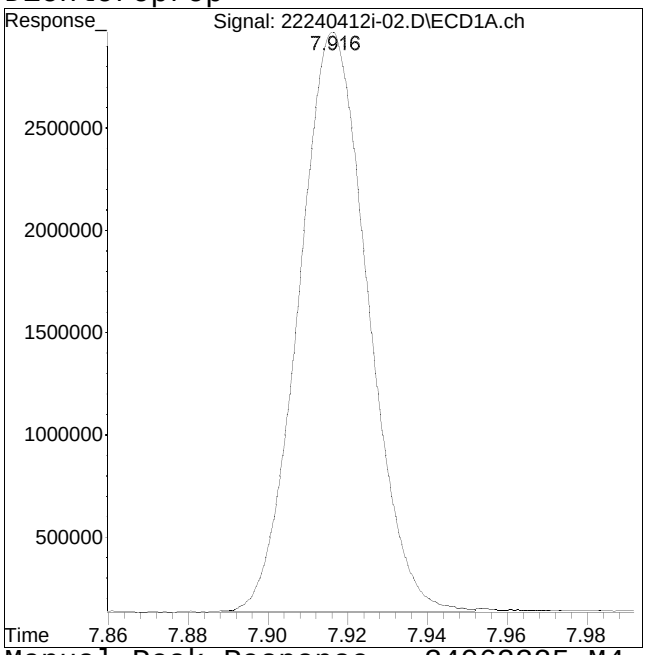
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-02.D Operator : pest22:peg
Date Inj'd : 4/12/2024 6:35 am Instrument : Pest22
Sample : il1herb,42e,,pp11464 L0.00Quant Date : 4/12/2024 8:57 am

Compound #7: Dichloroprop



Original Peak Response = 34203861



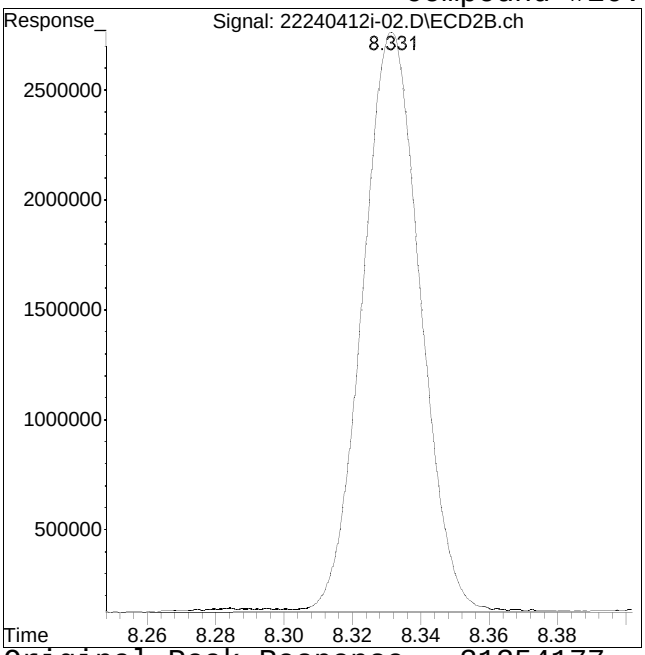
Manual Peak Response = 34063325 M4

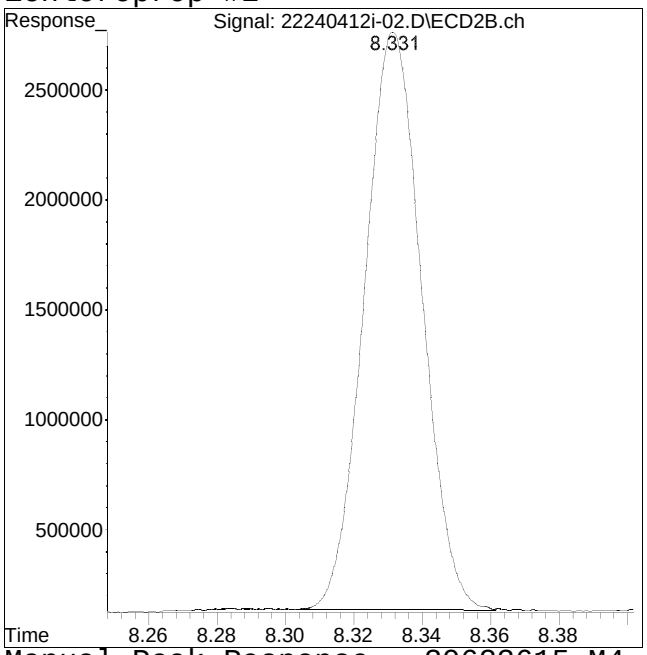
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-02.D Operator : pest22:peg
Date Inj'd : 4/12/2024 6:35 am Instrument : Pest22
Sample : il1herb,42e,,pp11464 L0.00Quant Date : 4/12/2024 8:57 am

Compound #20: Dichloroprop #2



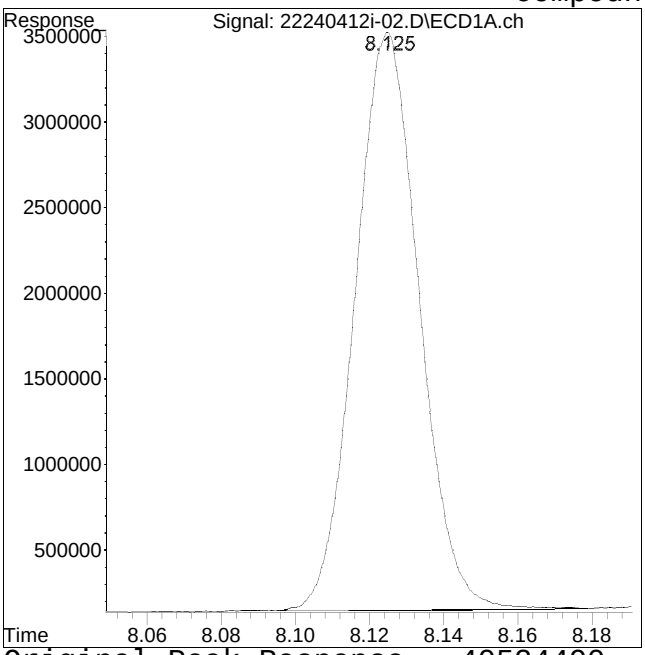


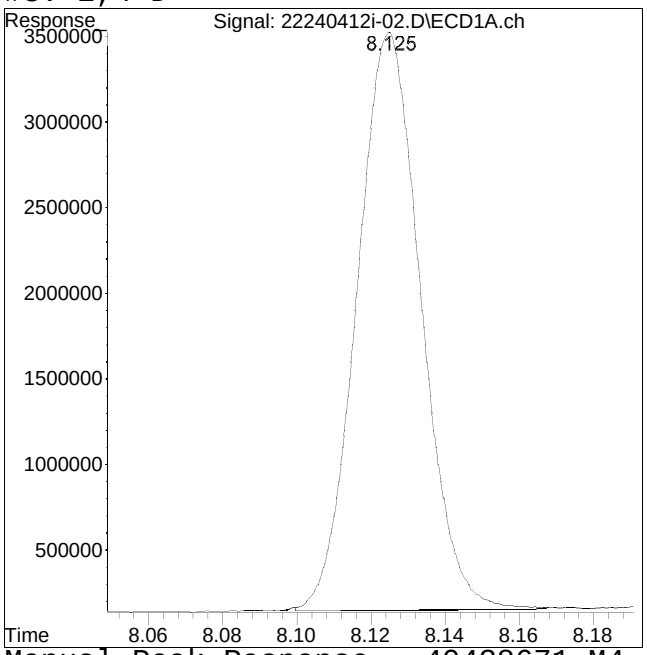
Original Peak Response = 31354177 Manual Peak Response = 30623615 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-02.D Operator : pest22:peg
Date Inj'd : 4/12/2024 6:35 am Instrument : Pest22
Sample : il1herb,42e,,pp11464 L0.00Quant Date : 4/12/2024 8:57 am

Compound #8: 2,4-D



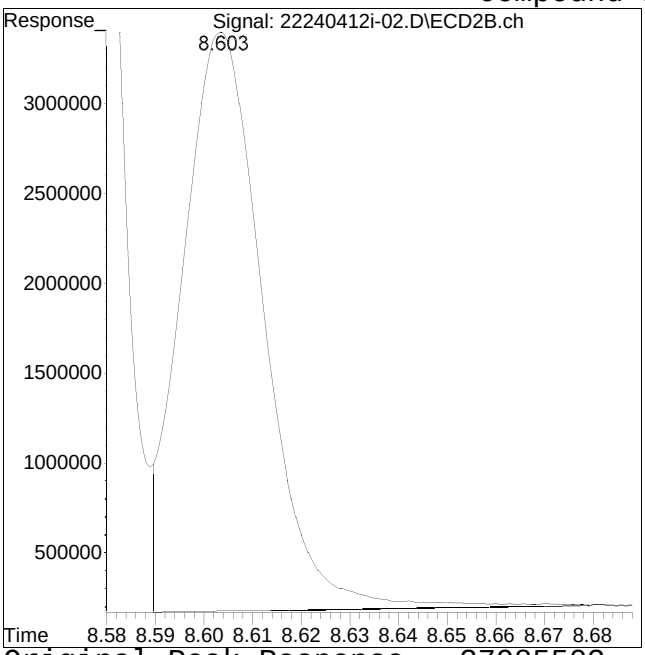


Original Peak Response = 40524490 Manual Peak Response = 40438671 M4
M4 = Poor automated baseline construction.

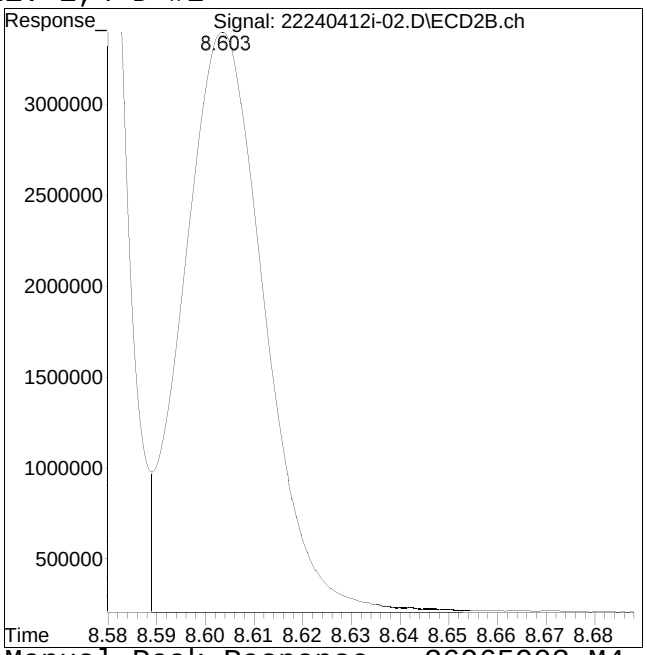
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-02.D Operator : pest22:peg
Date Inj'd : 4/12/2024 6:35 am Instrument : Pest22
Sample : il1herb,42e,,pp11464 L0.00Quant Date : 4/12/2024 8:57 am

Compound #21: 2,4-D #2



Original Peak Response = 37985503



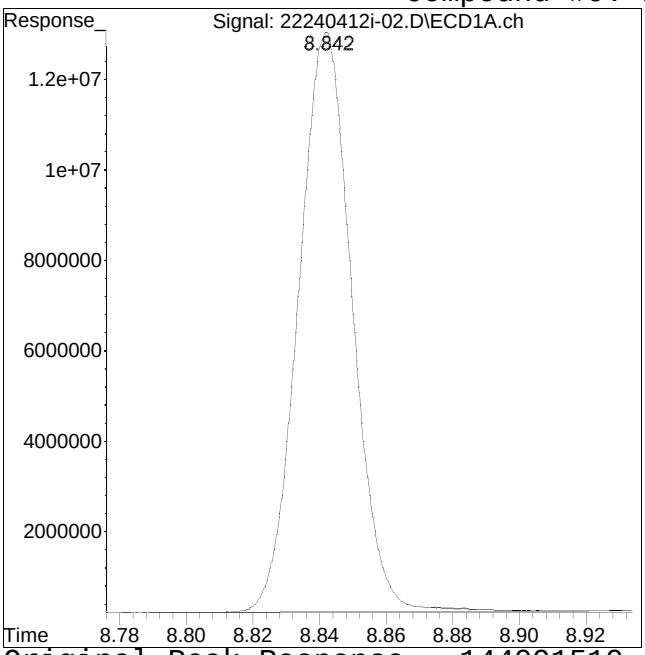
Manual Peak Response = 36965903 M4

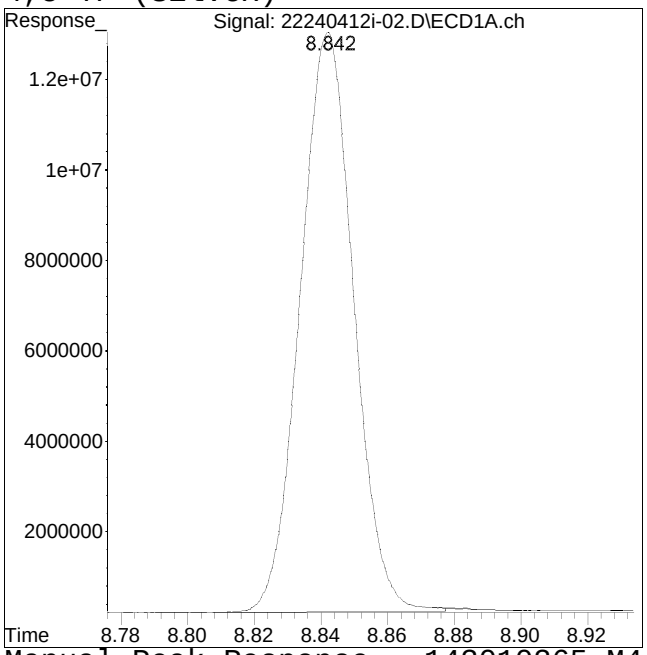
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-02.D Operator : pest22:peg
Date Inj'd : 4/12/2024 6:35 am Instrument : Pest22
Sample : il1herb,42e,,pp11464 L0.00Quant Date : 4/12/2024 8:57 am

Compound #9: 2,4,5-TP (Silvex)



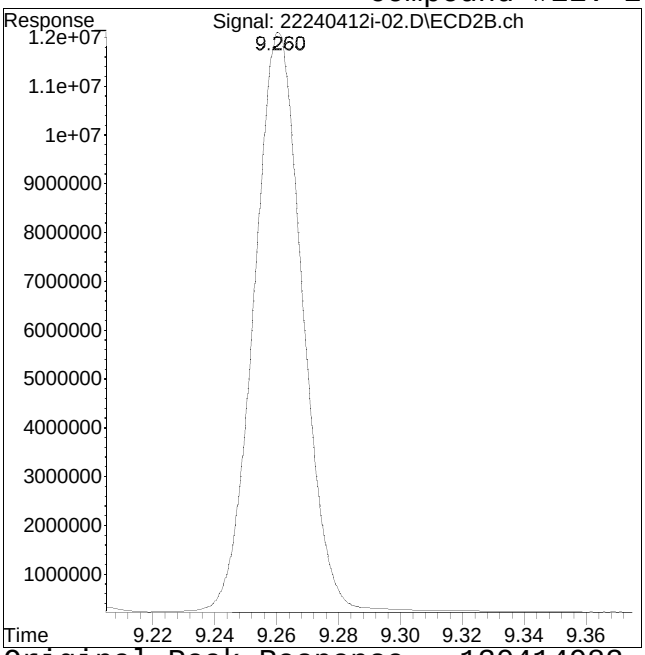


Original Peak Response = 144091510 Manual Peak Response = 143010365 M4
M4 = Poor automated baseline construction.

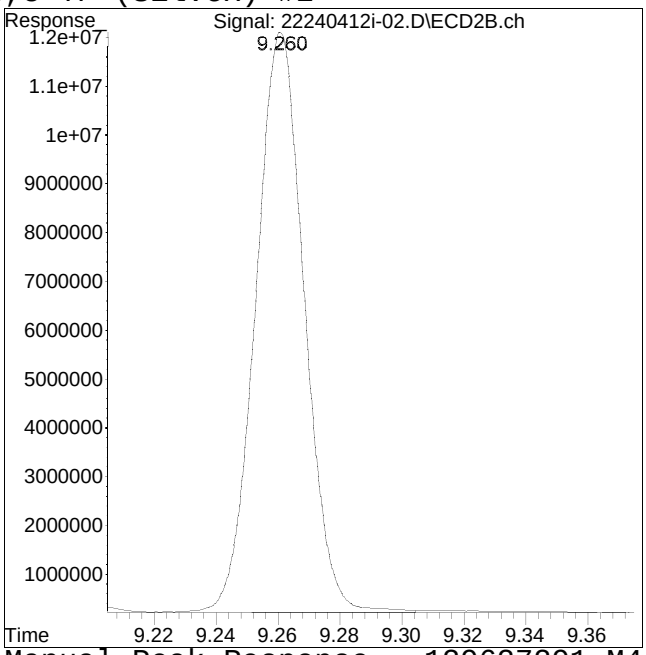
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-02.D Operator : pest22:peg
Date Inj'd : 4/12/2024 6:35 am Instrument : Pest22
Sample : il1herb,42e,,pp11464 L0.00Quant Date : 4/12/2024 8:57 am

Compound #22: 2,4,5-TP (Silvex) #2



Original Peak Response = 130414983



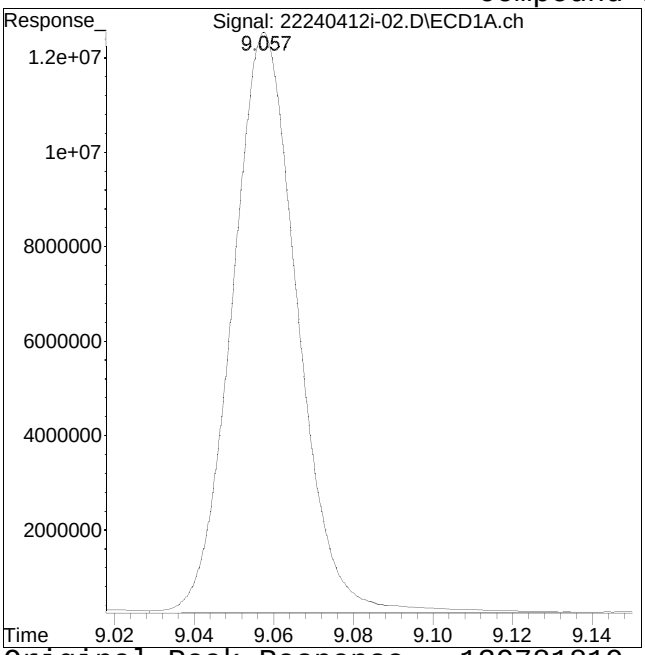
Manual Peak Response = 129627291 M4

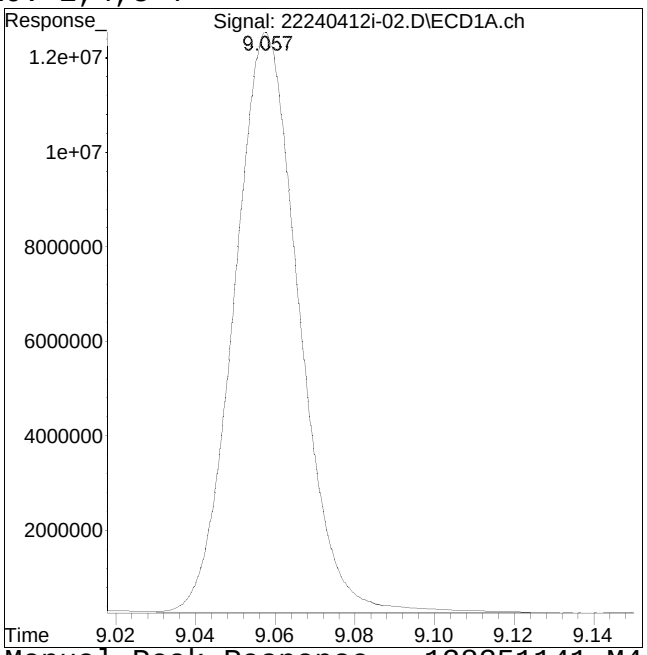
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-02.D Operator : pest22:peg
Date Inj'd : 4/12/2024 6:35 am Instrument : Pest22
Sample : il1herb,42e,,pp11464 L0.00Quant Date : 4/12/2024 8:57 am

Compound #10: 2,4,5-T



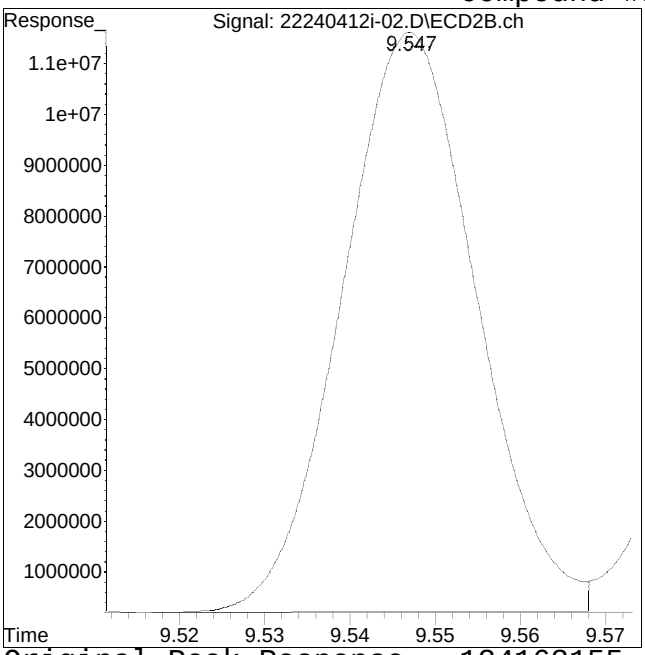


Original Peak Response = 139781819 Manual Peak Response = 138351141 M4
M4 = Poor automated baseline construction.

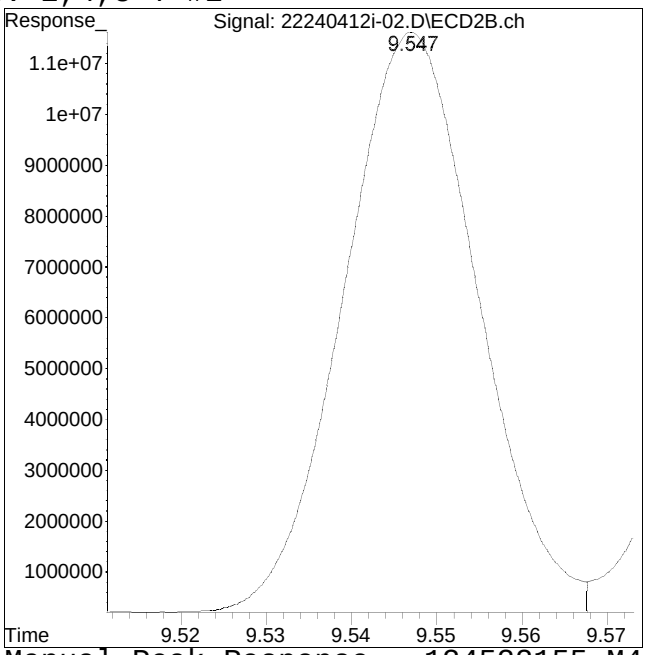
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-02.D Operator : pest22:peg
Date Inj'd : 4/12/2024 6:35 am Instrument : Pest22
Sample : il1herb,42e,,pp11464 L0.00Quant Date : 4/12/2024 8:57 am

Compound #23: 2,4,5-T #2



Original Peak Response = 124163155

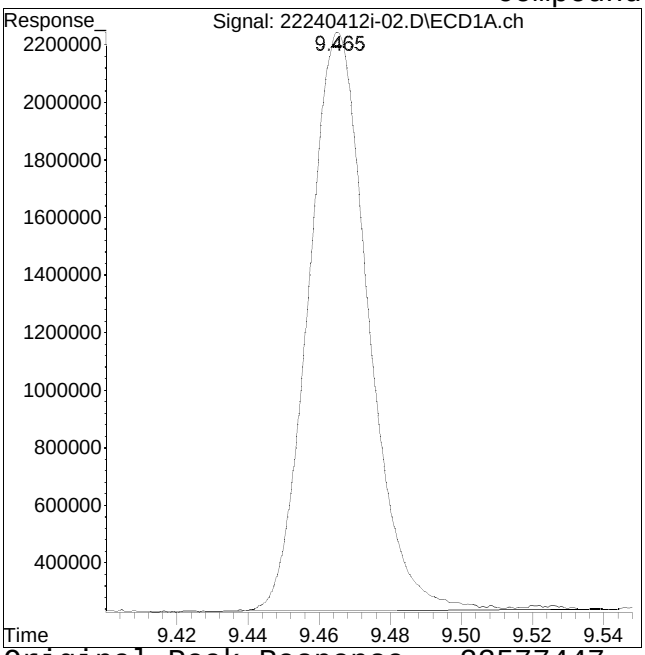


Manual Peak Response = 124522155 M4
M4 = Poor automated baseline construction.

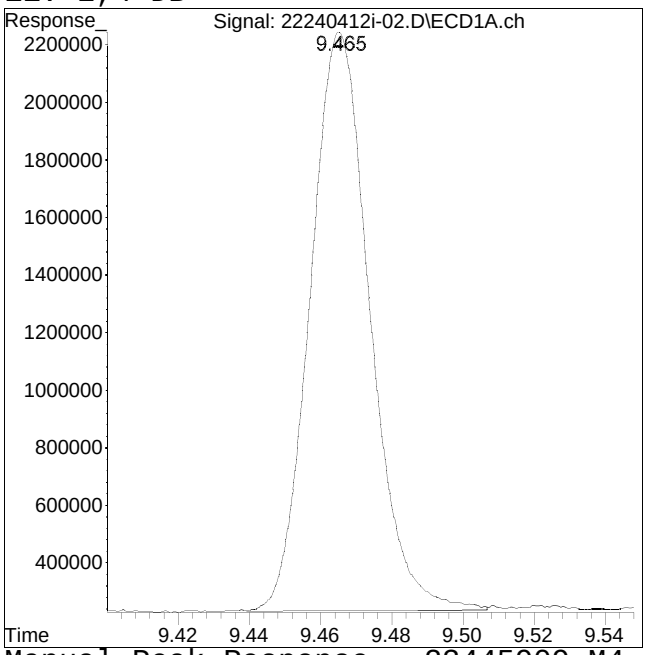
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-02.D Operator : pest22:peg
Date Inj'd : 4/12/2024 6:35 am Instrument : Pest22
Sample : il1herb,42e,,pp11464 L0.00Quant Date : 4/12/2024 8:57 am

Compound #11: 2,4-DB



Original Peak Response = 23577447



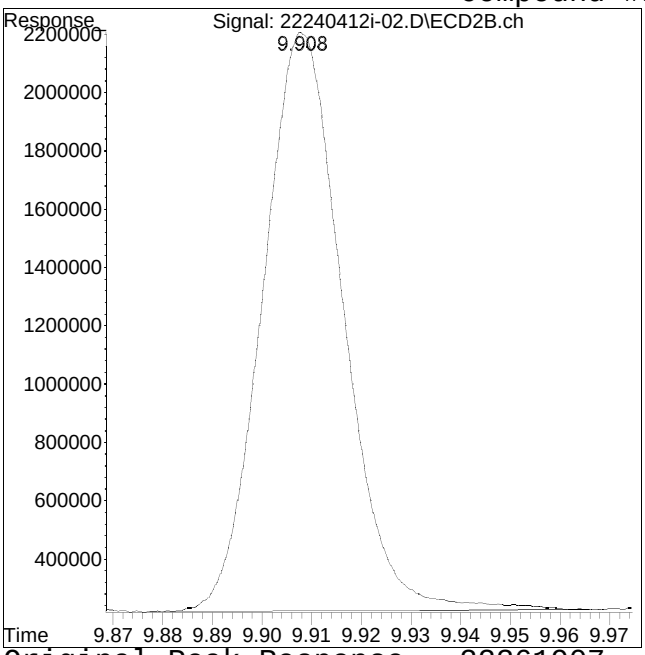
Manual Peak Response = 23445909 M4

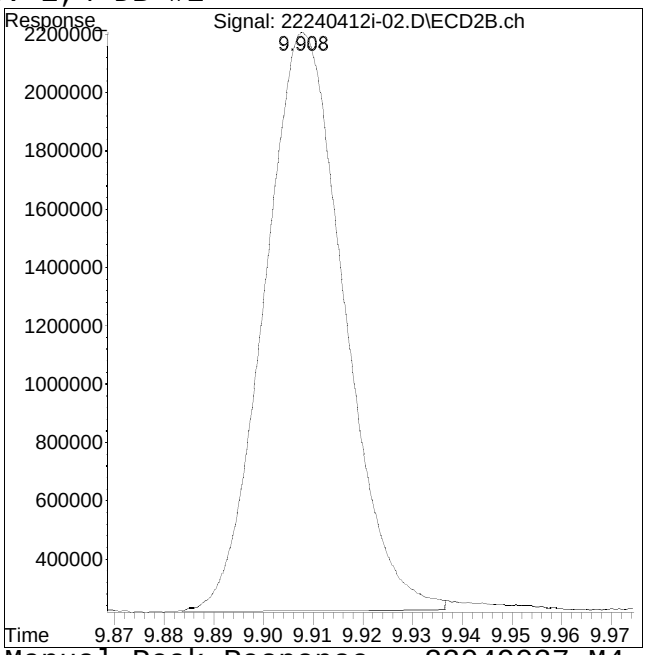
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-02.D Operator : pest22:peg
Date Inj'd : 4/12/2024 6:35 am Instrument : Pest22
Sample : il1herb,42e,,pp11464 L0.00Quant Date : 4/12/2024 8:57 am

Compound #24: 2,4-DB #2



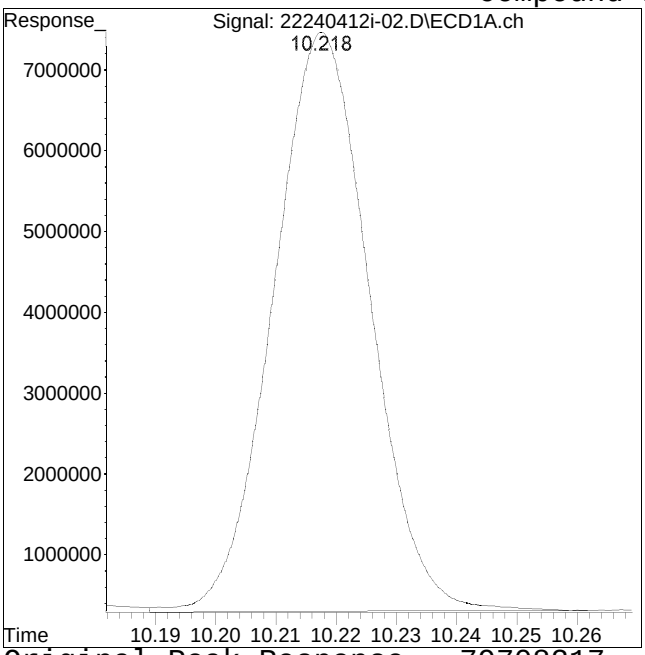


Original Peak Response = 22361907 Manual Peak Response = 22049037 M4
M4 = Poor automated baseline construction.

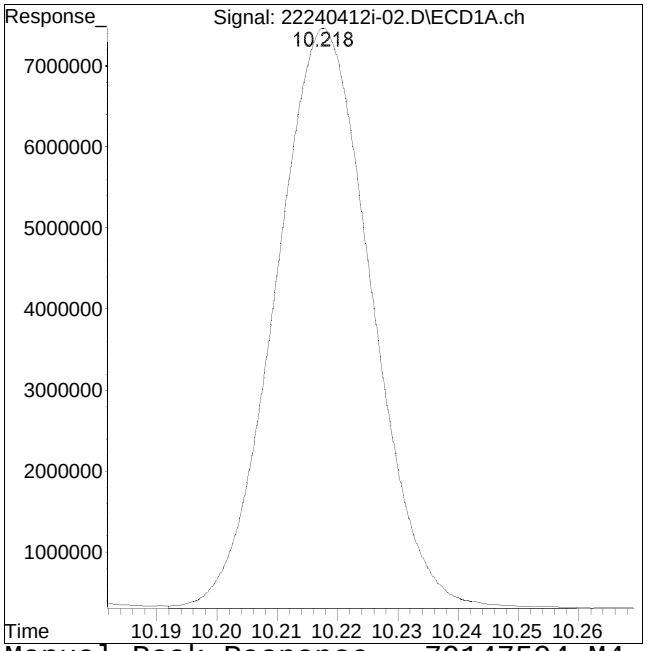
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-02.D Operator : pest22:peg
Date Inj'd : 4/12/2024 6:35 am Instrument : Pest22
Sample : il1herb,42e,,pp11464 L0.00Quant Date : 4/12/2024 8:57 am

Compound #12: Dinoseb



Original Peak Response = 79708217



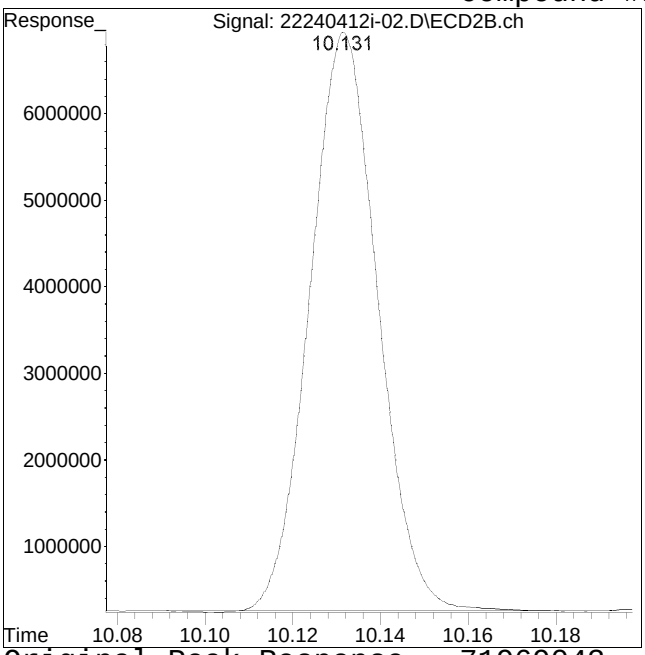
Manual Peak Response = 79147594 M4

M4 = Poor automated baseline construction.

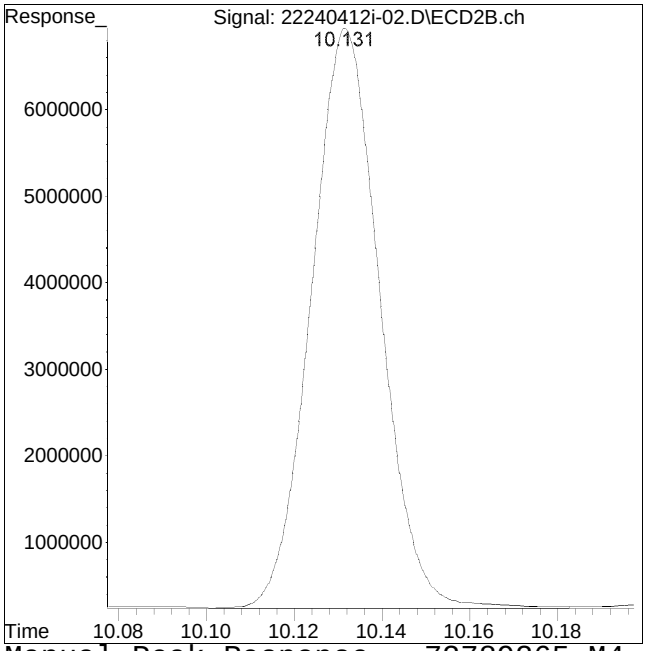
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-02.D Operator : pest22:peg
Date Inj'd : 4/12/2024 6:35 am Instrument : Pest22
Sample : il1herb,42e,,pp11464 L0.00Quant Date : 4/12/2024 8:57 am

Compound #25: Dinoseb #2



Original Peak Response = 71969043



Manual Peak Response = 72789265 M4

M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest22\2024\240412ical\
Data File : 22240412i-03.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 12 Apr 2024 06:54 am
Operator : pest22:peg
Sample : il2herb,42e,,pp11463 L0.1/10 (Sig #1); ilherb42e,,pp11463 L0.1/10 (Sig #2)
Misc : wg1907956, (Sig #1); ical (Sig #2)
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Apr 12 08:52:07 2024
Quant Method : I:\PEST\Pest22\2024\240412ical\Herb22_2024_04_12_mgL_ICAL.m
Quant Title : herb
QLast Update : Fri Apr 12 08:51:42 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

		Compound	RT#1	RT#2	Resp#1	Resp#2	mg/l	mg/l
		Internal Standards						
1)	i	4,4'-DBOB	8.572	8.564	766.6E6	713.2E6	0.250M4	0.250M4
		System Monitoring Compounds						
3)	s	DCAA (surrog	7.028	7.495	65965180	60068272	0.114M4	0.113M4
		Spiked Amount	0.500	Range 30 - 150		Recovery =	22.80%#	22.60%#
		Target Compounds						
2)	t	Dalapon	2.424	2.420	63862421	54348641	0.102M4	0.097M3
4)	t	Dicamba	7.213	7.677	190.1E6	170.6E6	0.114M4	0.106M4
5)	t	MCPP	7.414	7.788	14933212	20689286	9.144M4	10.250M4
6)	t	MCPA	7.559	8.013	30631672	36896219	11.261M4	11.563M4
7)	t	Dichloroprop	7.915	8.330	63381649	57364341	0.118M4	0.114M4
8)	t	2,4-D	8.123	8.602	77300208	68835400	0.114M4	0.109M4
9)	t	2,4,5-TP (Si	8.840	9.260	278.1E6	251.0E6	0.111M3	0.109M4
10)	t	2,4,5-T	9.056	9.546	271.4E6	240.4E6	0.110M4	0.106
11)	t	2,4-DB	9.463	9.907	43677635	41468808	0.118M4	0.110M4
12)	t	Dinoseb	10.216	10.131	155.1E6	140.9E6	0.108M4	0.105

SemiQuant Compounds - Not Calibrated on this Instrument

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest22\2024\240412ical\
Data File : 22240412i-03.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 12 Apr 2024 06:54 am
Operator : pest22:peg
Sample : il2herb,42e,,pp11463 L0.1/10 (Sig #1); ilherb42e,,pp11463 L0.1/10 (Sig #2)
Misc : wg1907956, (Sig #1); ical (Sig #2)
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Apr 12 08:52:07 2024
Quant Method : I:\PEST\Pest22\2024\240412ical\Herb22_2024_04_12_mgL_ICAL.m
Quant Title : herb
QLast Update : Fri Apr 12 08:51:42 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	mg/l	mg/l

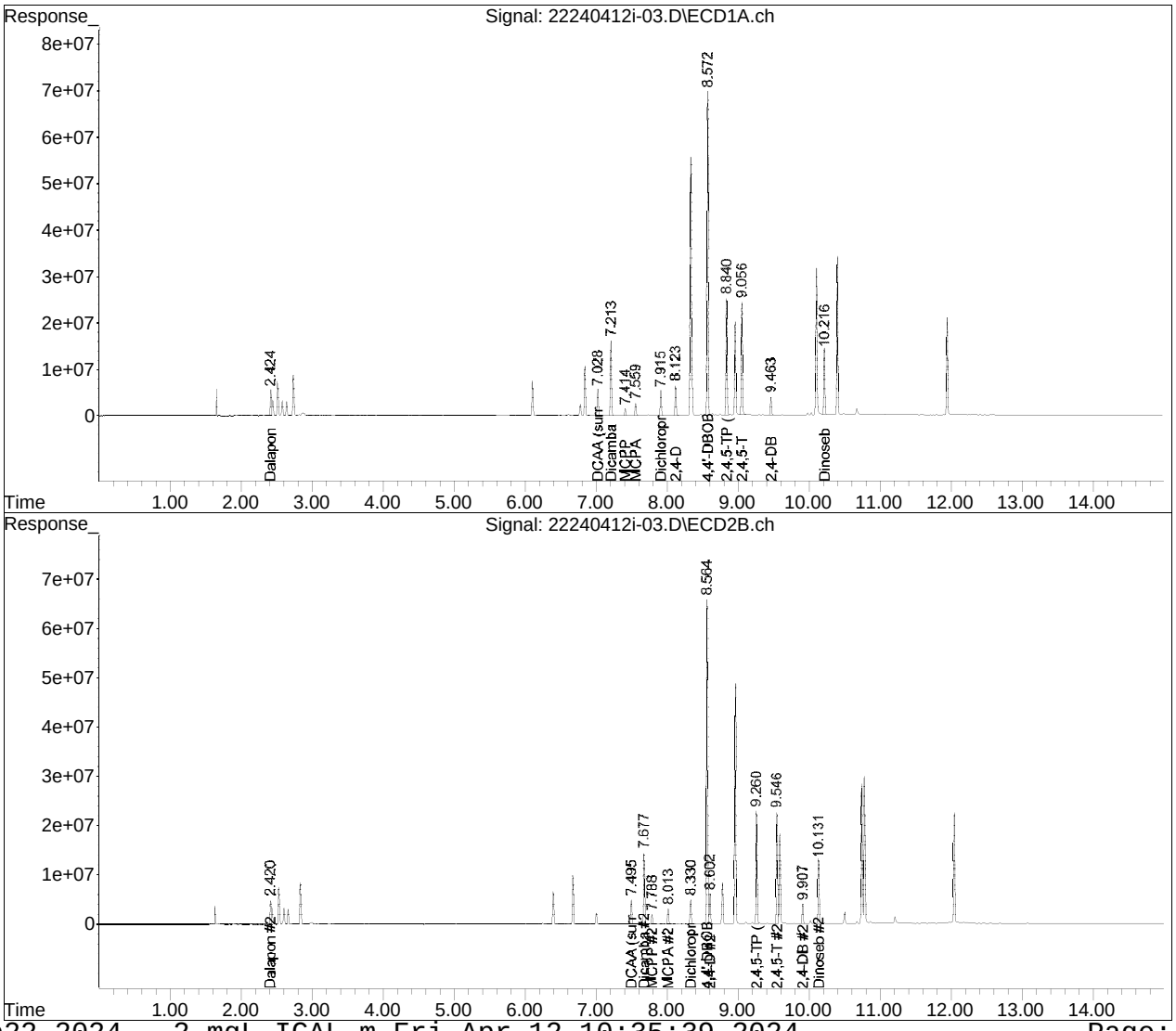
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest22\2024\240412ical\
Data File : 22240412i-03.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 12 Apr 2024 06:54 am
Operator : pest22:peg
Sample : il2herb,42e,,pp11463 L0.1/10 (Sig #1); ilherb42e,,pp11463 L0.1/10
Misc : wg1907956, (Sig #1); ical (Sig #2)
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Apr 12 08:52:07 2024
Quant Method : I:\PEST\Pest22\2024\240412ical\Herb22_2024_04_12_mgL_ICAL.m
Quant Title : herb
QLast Update : Fri Apr 12 08:51:42 2024
Response via : Initial Calibration
Integrator: ChemStation

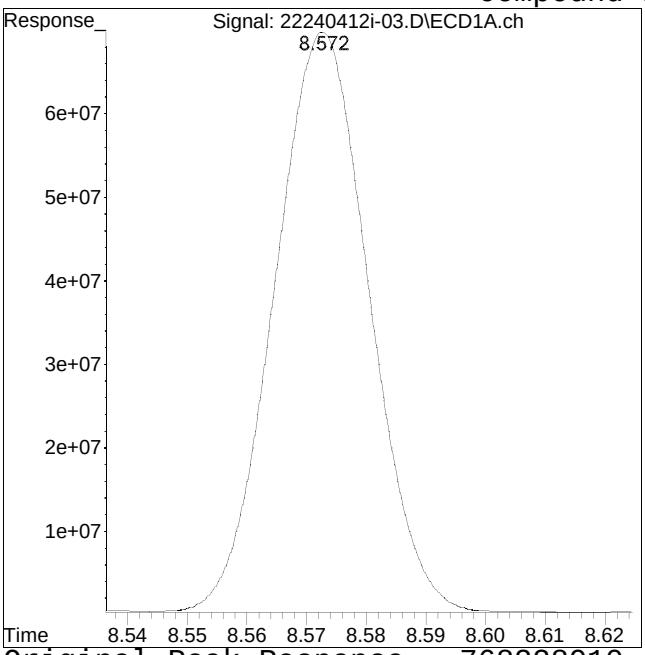
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

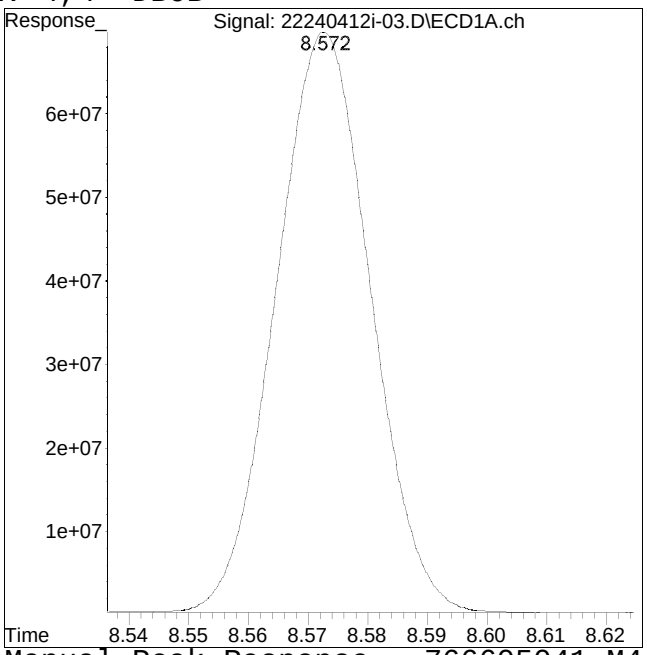


Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-03.D Operator : pest22:peg
Date Inj'd : 4/12/2024 6:54 am Instrument : Pest22
Sample : il2herb,42e,,pp11463 L0.1/Quant Date : 4/12/2024 8:52 am

Compound #1: 4,4'-DBOB



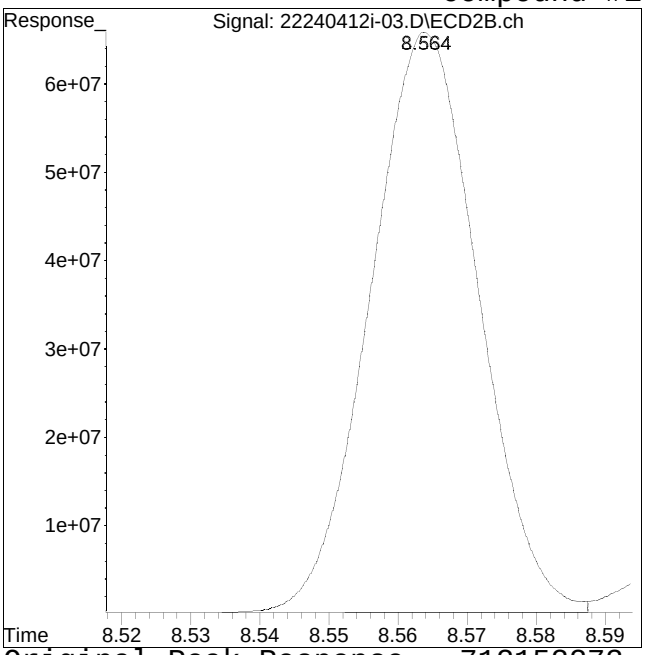


Original Peak Response = 768228910 Manual Peak Response = 766605041 M4
M4 = Poor automated baseline construction.

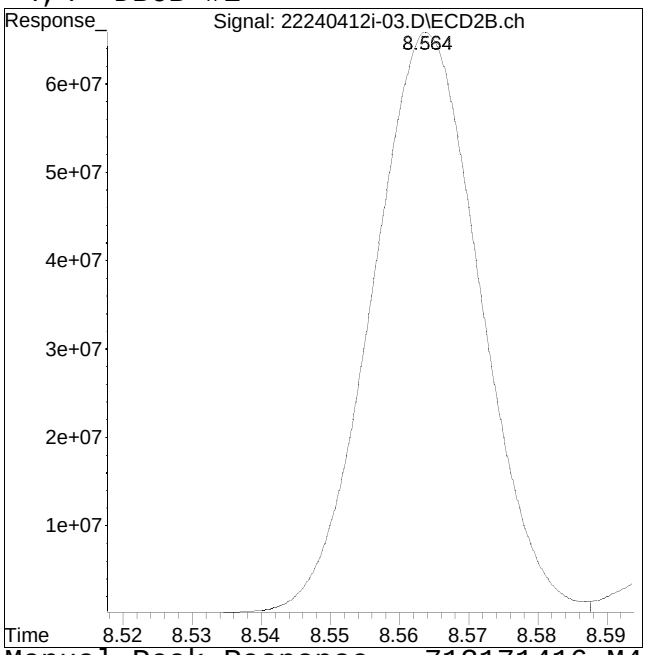
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-03.D Operator : pest22:peg
Date Inj'd : 4/12/2024 6:54 am Instrument : Pest22
Sample : il2herb,42e,,pp11463 L0.1/Quant Date : 4/12/2024 8:52 am

Compound #14: 4,4'-DBOB #2



Original Peak Response = 712152273

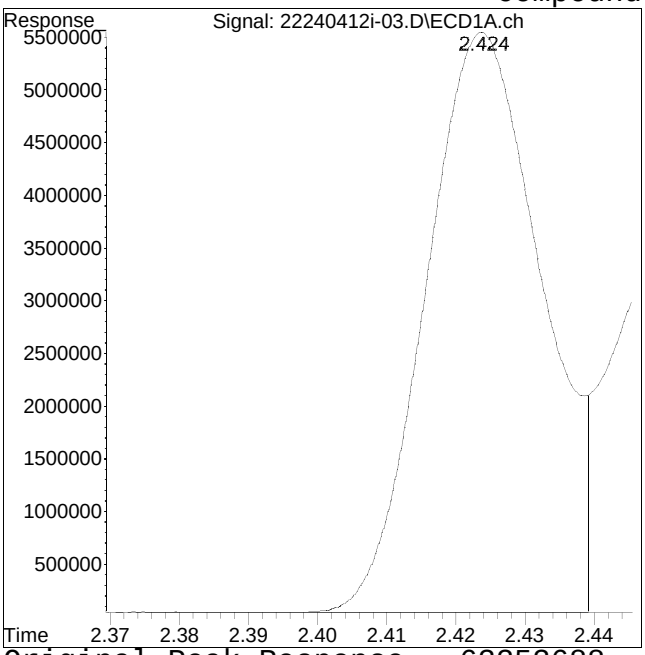


Manual Peak Response = 713171416 M4
M4 = Poor automated baseline construction.

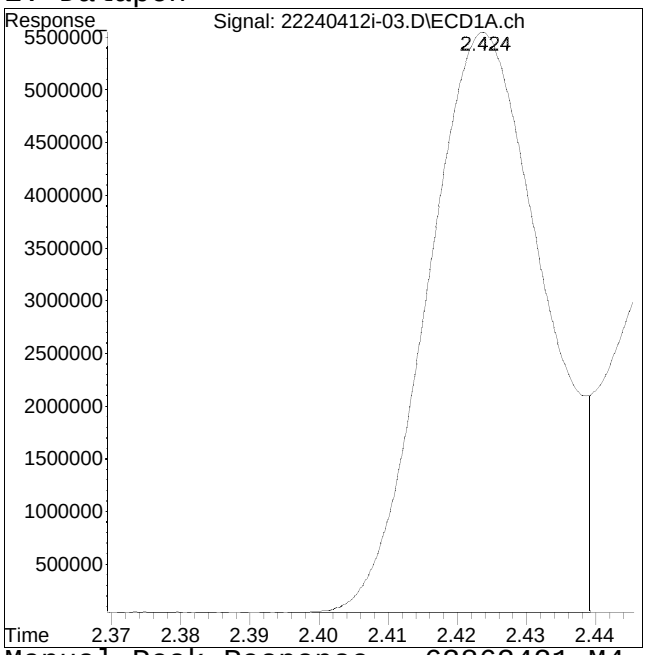
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-03.D Operator : pest22:peg
Date Inj'd : 4/12/2024 6:54 am Instrument : Pest22
Sample : il2herb,42e,,pp11463 L0.1/Quant Date : 4/12/2024 8:52 am

Compound #2: Dalapon



Original Peak Response = 63353688

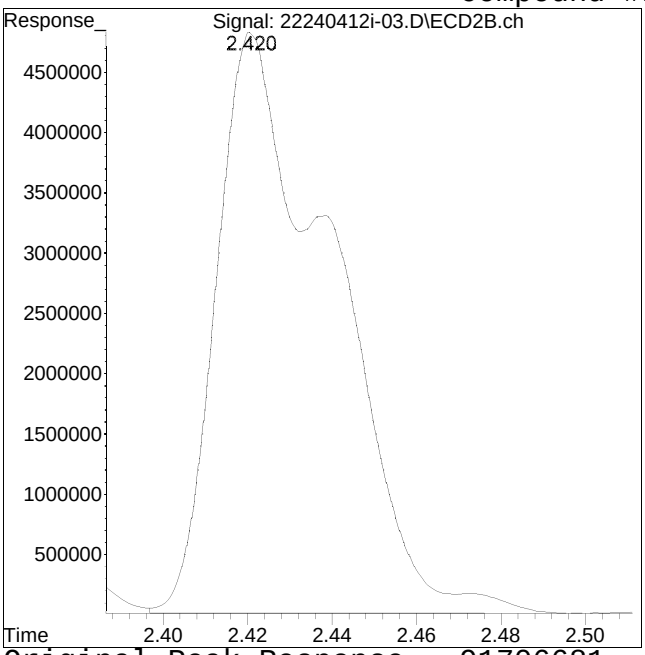


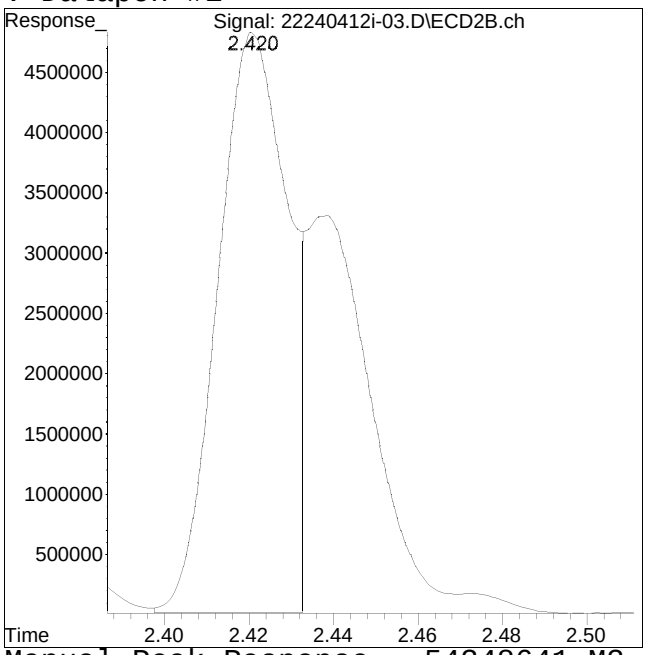
Manual Peak Response = 63862421 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-03.D Operator : pest22:peg
Date Inj'd : 4/12/2024 6:54 am Instrument : Pest22
Sample : il2herb,42e,,pp11463 L0.1/Quant Date : 4/12/2024 8:52 am

Compound #15: Dalapon #2



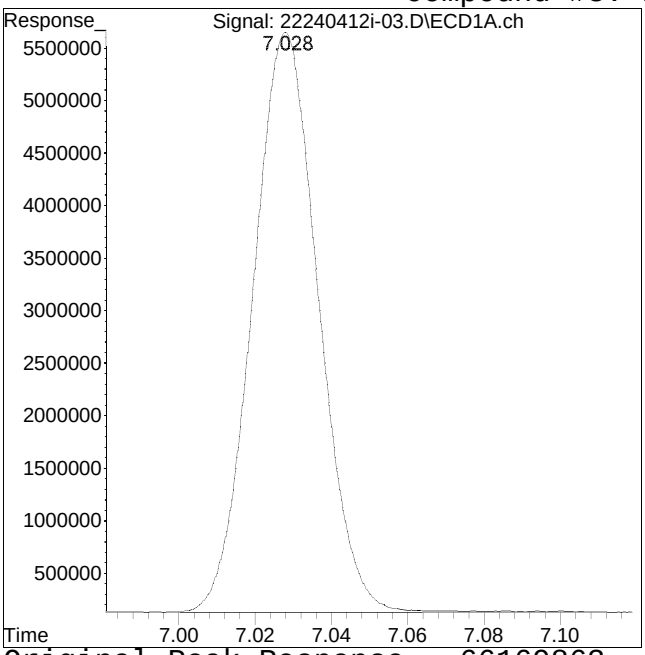


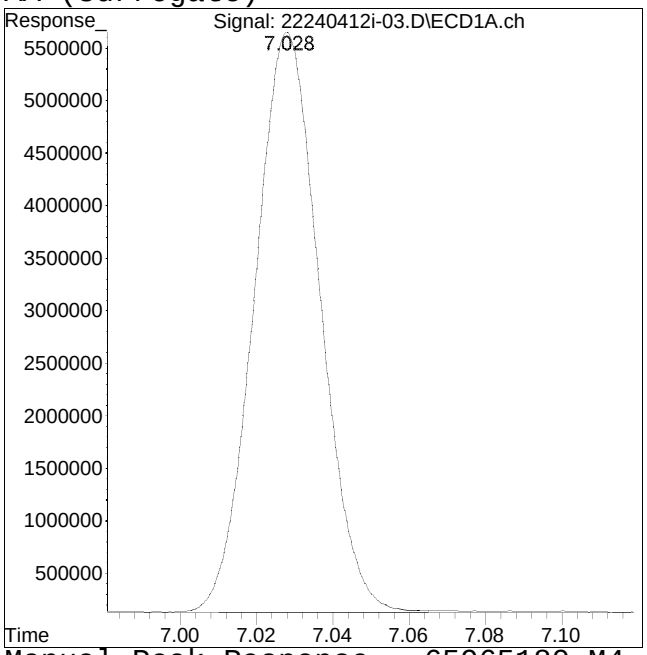
Original Peak Response = 91706681 Manual Peak Response = 54348641 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-03.D Operator : pest22:peg
Date Inj'd : 4/12/2024 6:54 am Instrument : Pest22
Sample : il2herb,42e,,pp11463 L0.1/Quant Date : 4/12/2024 8:52 am

Compound #3: DCAA (surrogate)



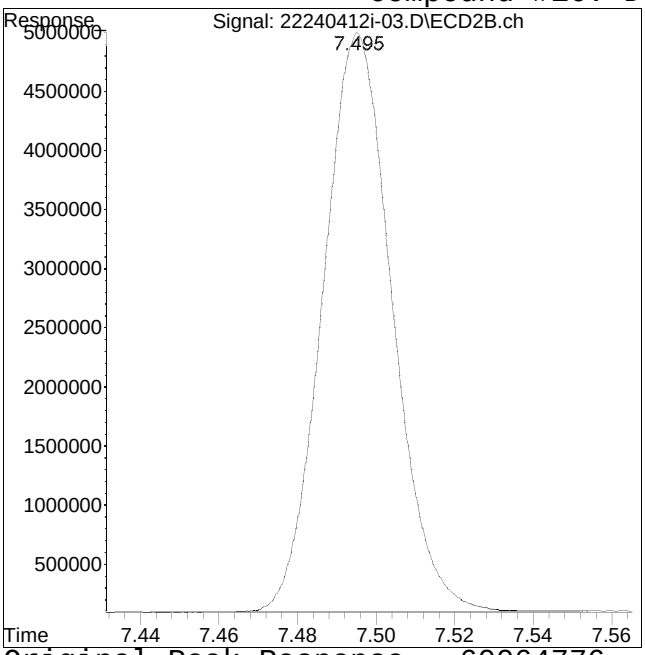


Original Peak Response = 66169863 Manual Peak Response = 65965180 M4
M4 = Poor automated baseline construction.

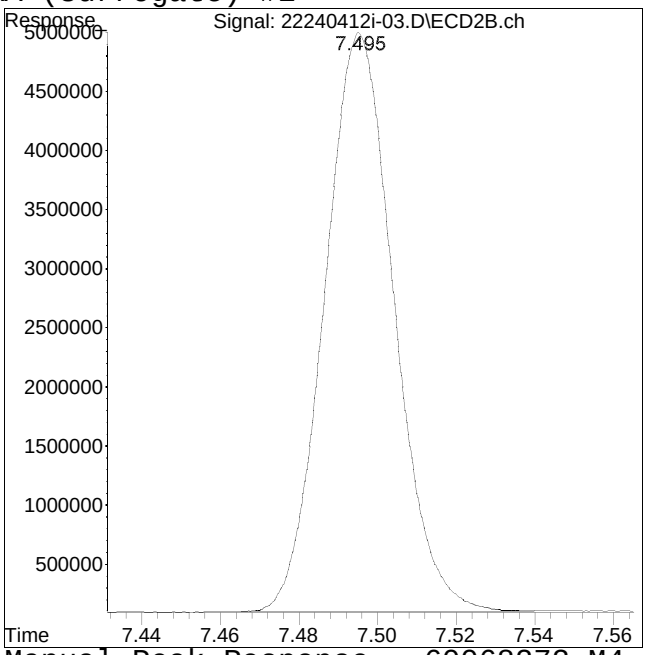
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-03.D Operator : pest22:peg
Date Inj'd : 4/12/2024 6:54 am Instrument : Pest22
Sample : il2herb,42e,,pp11463 L0.1/Quant Date : 4/12/2024 8:52 am

Compound #16: DCAA (surrogate) #2



Original Peak Response = 60064776



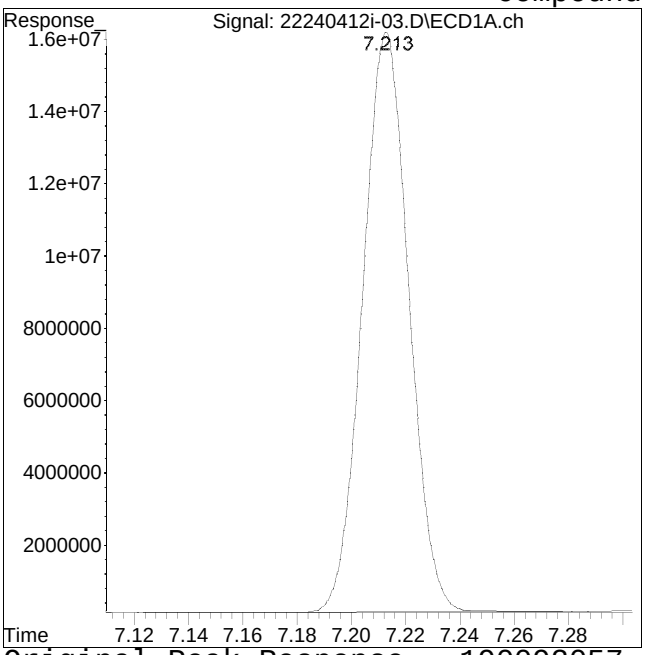
Manual Peak Response = 60068272 M4

M4 = Poor automated baseline construction.

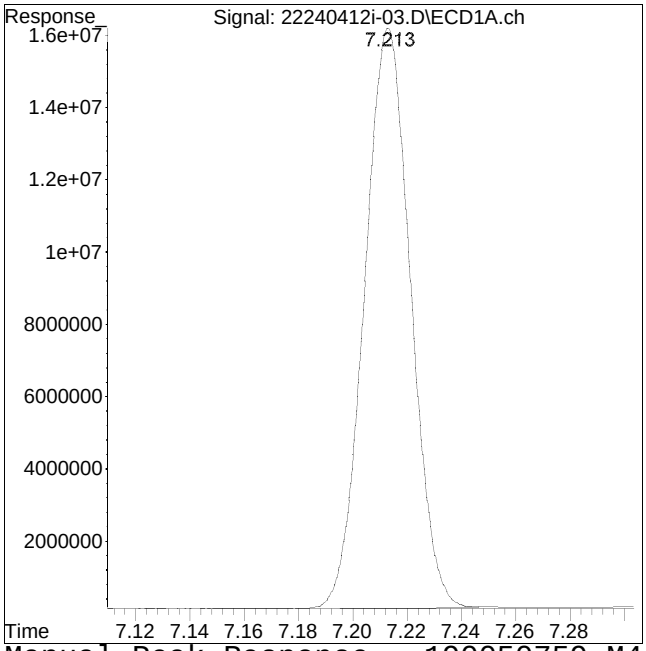
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-03.D Operator : pest22:peg
Date Inj'd : 4/12/2024 6:54 am Instrument : Pest22
Sample : il2herb,42e,,pp11463 L0.1/Quant Date : 4/12/2024 8:52 am

Compound #4: Dicamba



Original Peak Response = 190092057



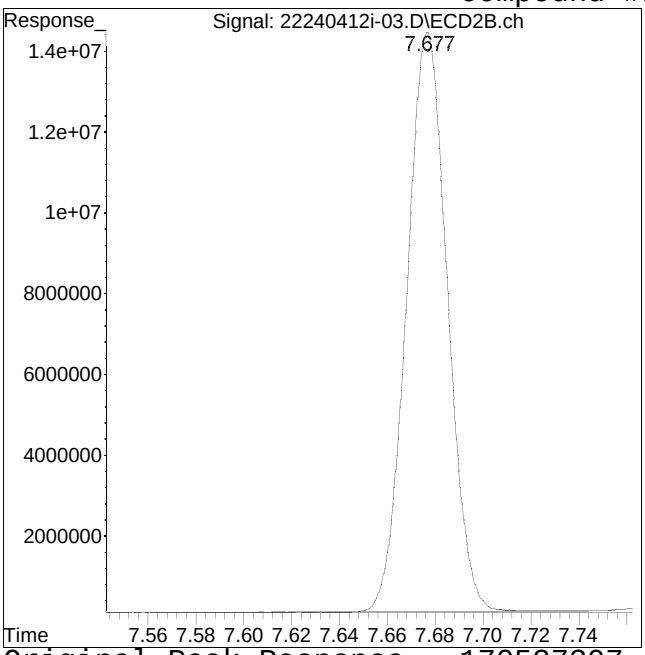
Manual Peak Response = 190050759 M4

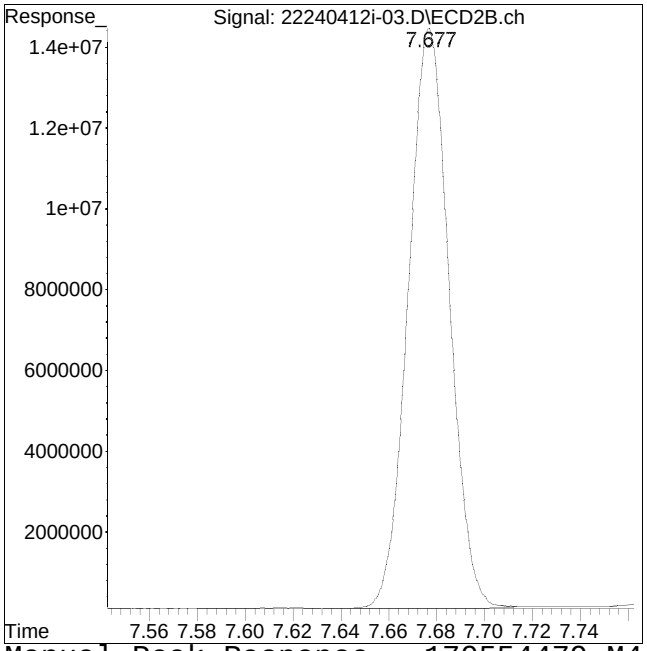
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-03.D Operator : pest22:peg
Date Inj'd : 4/12/2024 6:54 am Instrument : Pest22
Sample : il2herb,42e,,pp11463 L0.1/Quant Date : 4/12/2024 8:52 am

Compound #17: Dicamba #2



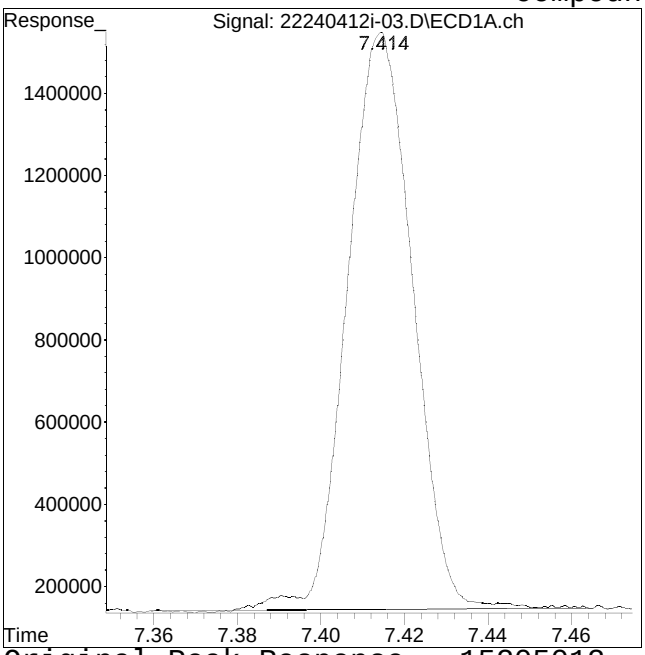


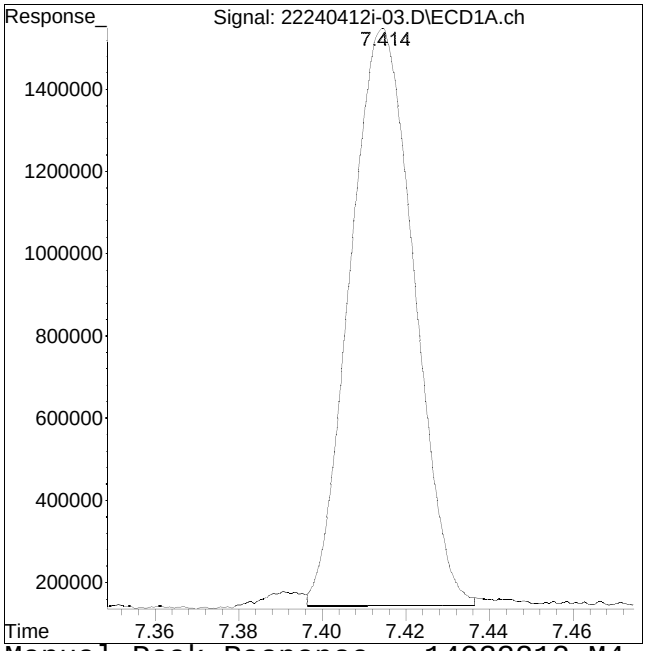
Original Peak Response = 170537307 Manual Peak Response = 170554479 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-03.D Operator : pest22:peg
Date Inj'd : 4/12/2024 6:54 am Instrument : Pest22
Sample : il2herb,42e,,pp11463 L0.1/Quant Date : 4/12/2024 8:52 am

Compound #5: MCPP



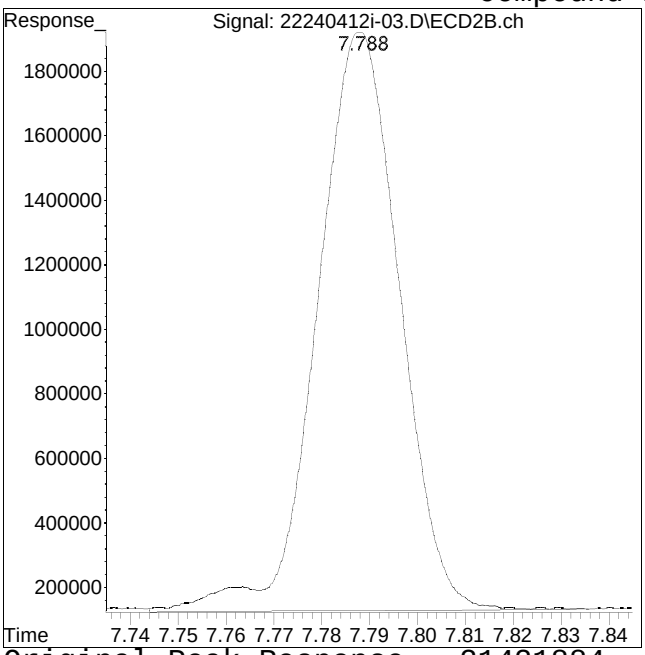


Original Peak Response = 15205012 Manual Peak Response = 14933212 M4
M4 = Poor automated baseline construction.

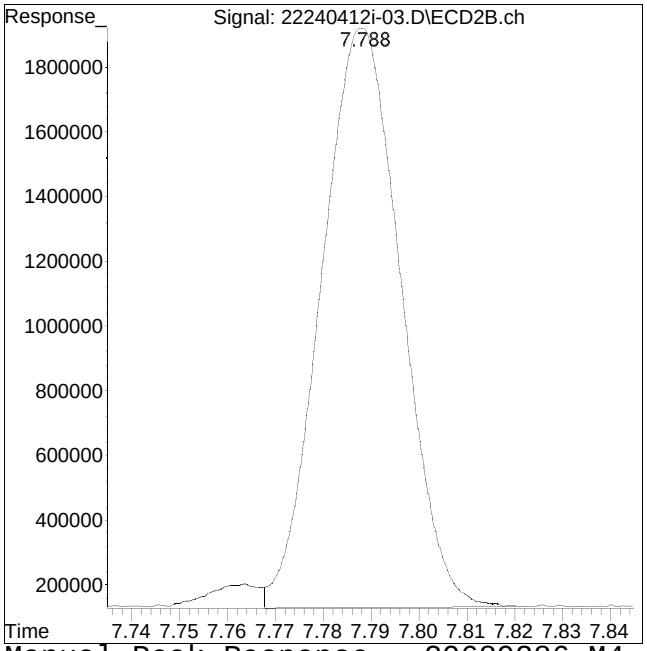
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-03.D Operator : pest22:peg
Date Inj'd : 4/12/2024 6:54 am Instrument : Pest22
Sample : il2herb,42e,,pp11463 L0.1/Quant Date : 4/12/2024 8:52 am

Compound #18: MCPP #2



Original Peak Response = 21421884



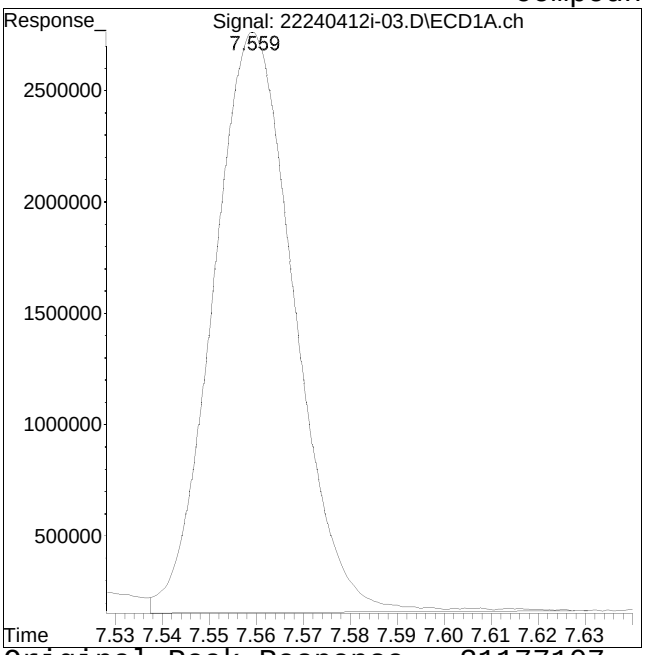
Manual Peak Response = 20689286 M4

M4 = Poor automated baseline construction.

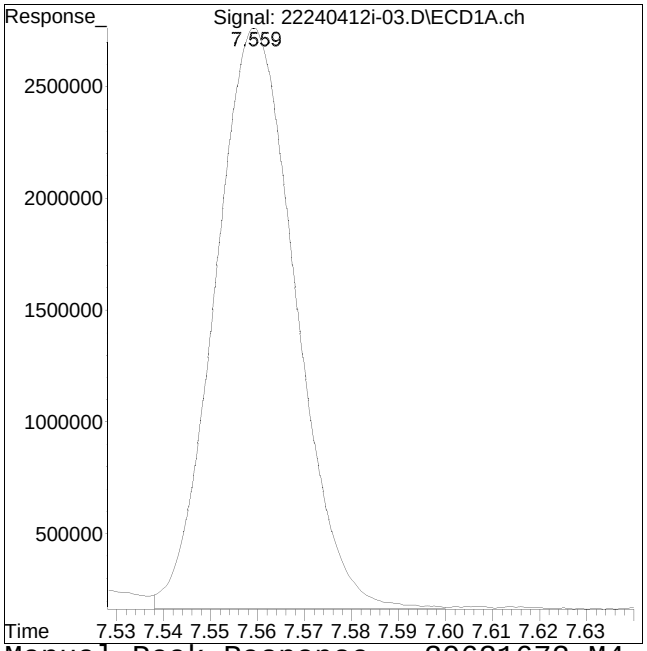
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-03.D Operator : pest22:peg
Date Inj'd : 4/12/2024 6:54 am Instrument : Pest22
Sample : il2herb,42e,,pp11463 L0.1/Quant Date : 4/12/2024 8:52 am

Compound #6: MCPA



Original Peak Response = 31177107



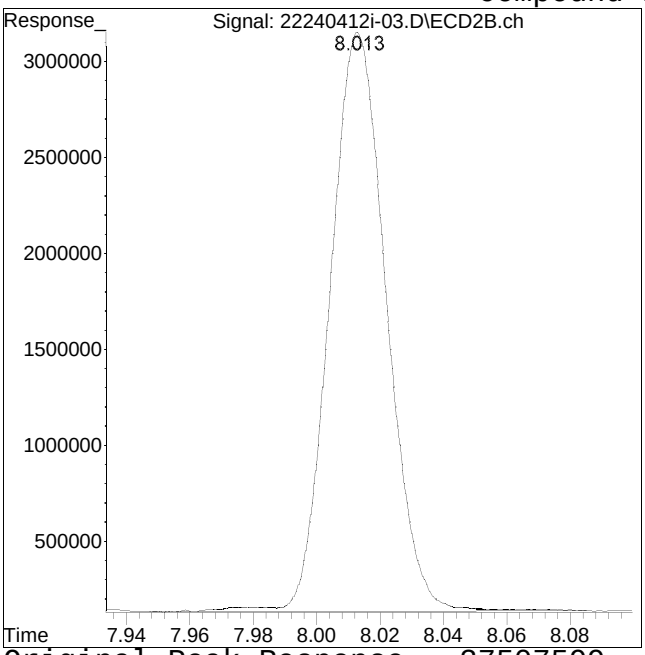
Manual Peak Response = 30631672 M4

M4 = Poor automated baseline construction.

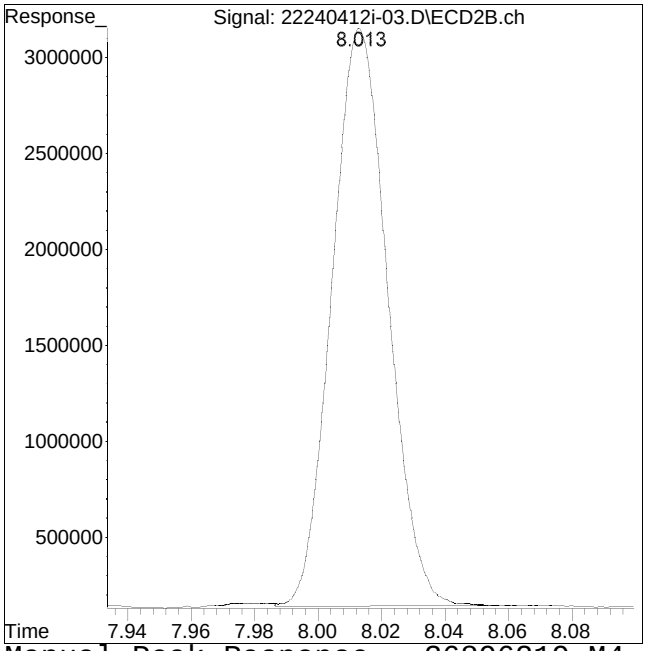
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-03.D Operator : pest22:peg
Date Inj'd : 4/12/2024 6:54 am Instrument : Pest22
Sample : il2herb,42e,,pp11463 L0.1/Quant Date : 4/12/2024 8:52 am

Compound #19: MCPA #2



Original Peak Response = 37507599



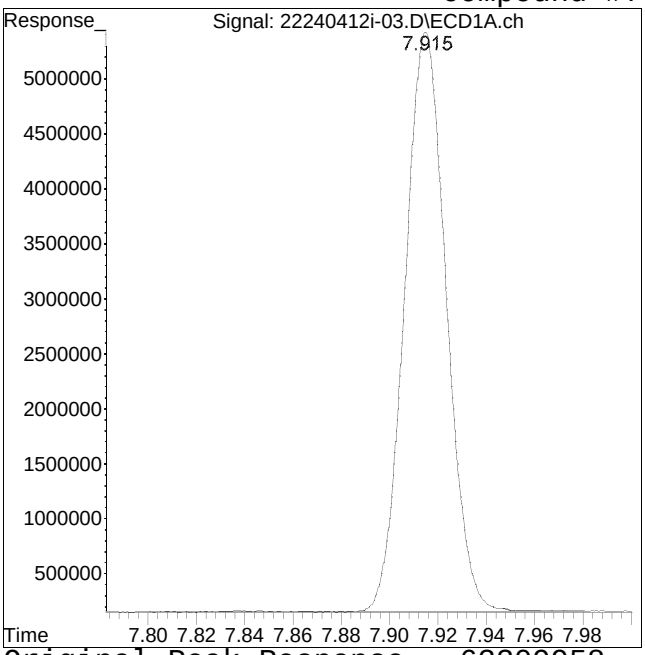
Manual Peak Response = 36896219 M4

M4 = Poor automated baseline construction.

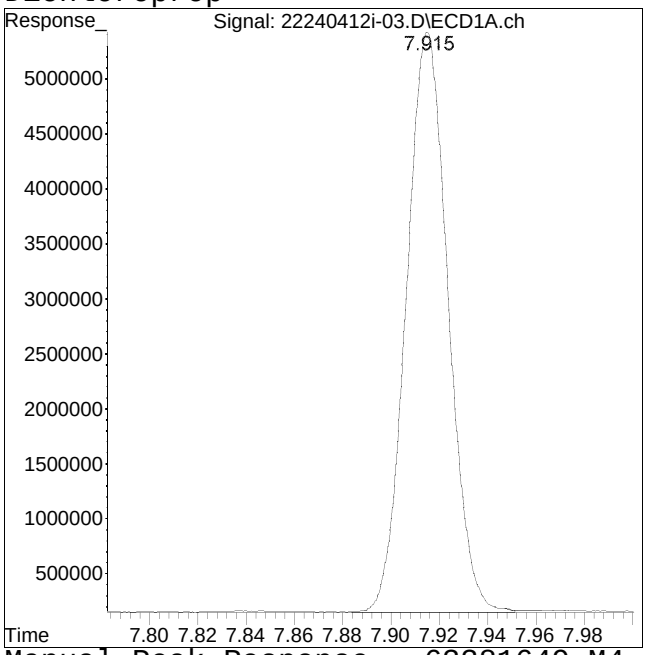
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-03.D Operator : pest22:peg
Date Inj'd : 4/12/2024 6:54 am Instrument : Pest22
Sample : il2herb,42e,,pp11463 L0.1/Quant Date : 4/12/2024 8:52 am

Compound #7: Dichloroprop



Original Peak Response = 63309958



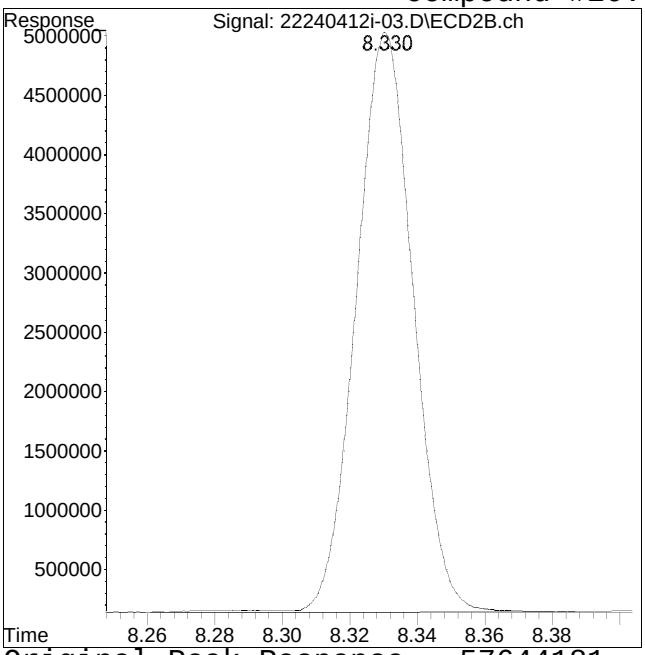
Manual Peak Response = 63381649 M4

M4 = Poor automated baseline construction.

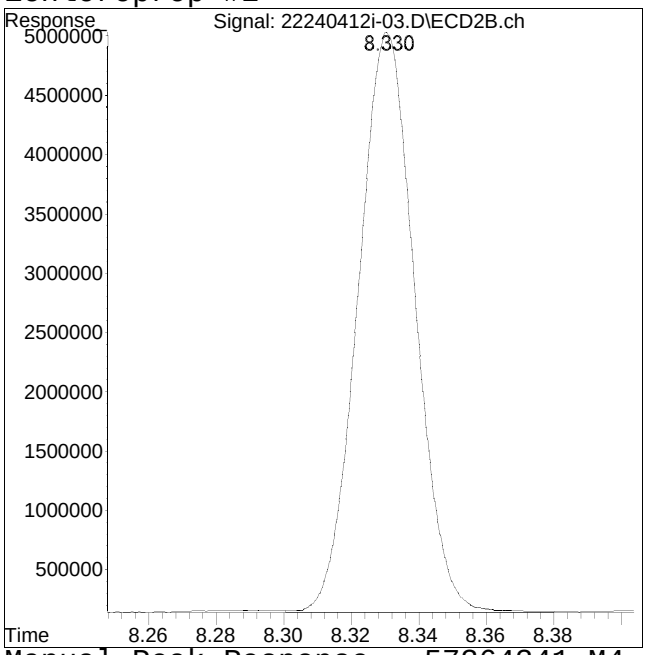
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-03.D Operator : pest22:peg
Date Inj'd : 4/12/2024 6:54 am Instrument : Pest22
Sample : il2herb,42e,,pp11463 L0.1/Quant Date : 4/12/2024 8:52 am

Compound #20: Dichloroprop #2



Original Peak Response = 57644181



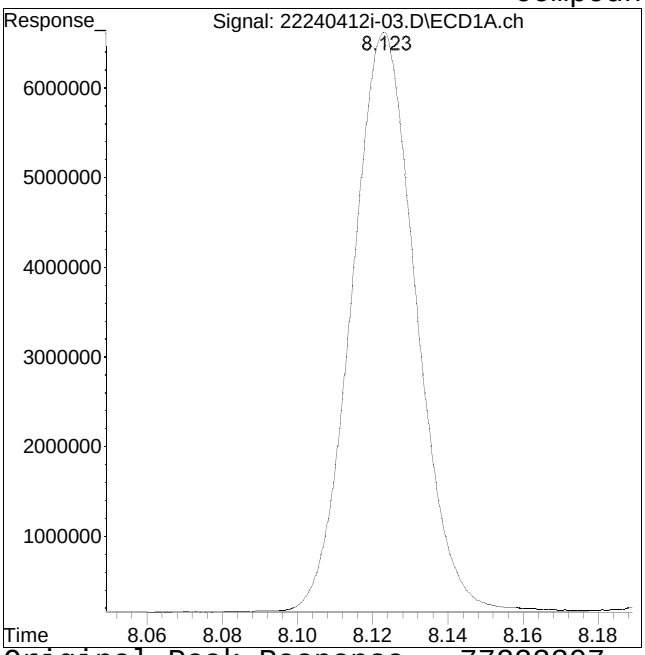
Manual Peak Response = 57364341 M4

M4 = Poor automated baseline construction.

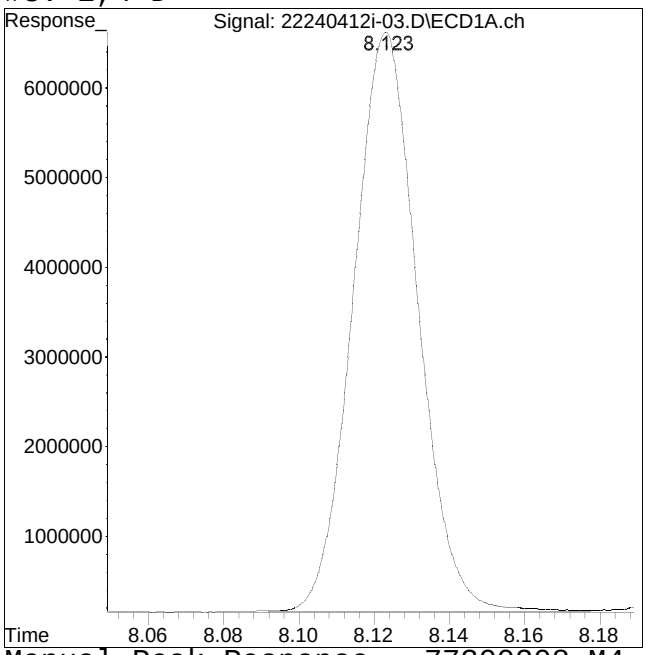
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-03.D Operator : pest22:peg
Date Inj'd : 4/12/2024 6:54 am Instrument : Pest22
Sample : il2herb,42e,,pp11463 L0.1/Quant Date : 4/12/2024 8:52 am

Compound #8: 2,4-D



Original Peak Response = 77223397



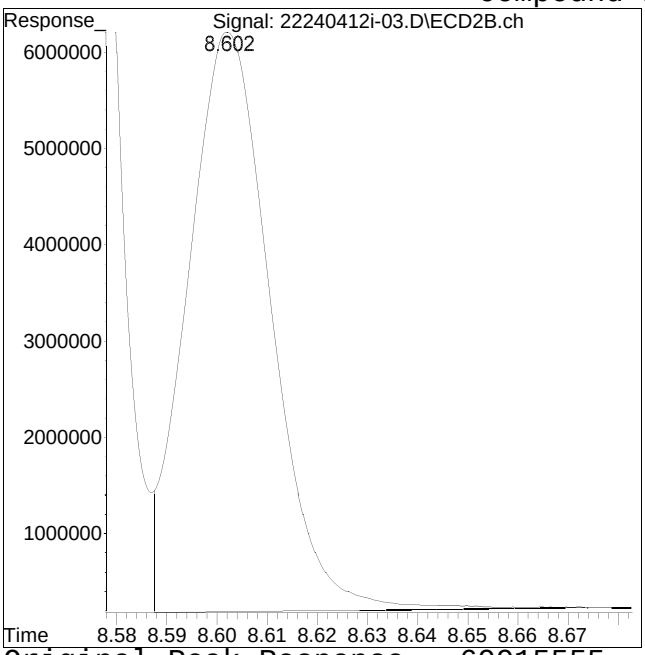
Manual Peak Response = 77300208 M4

M4 = Poor automated baseline construction.

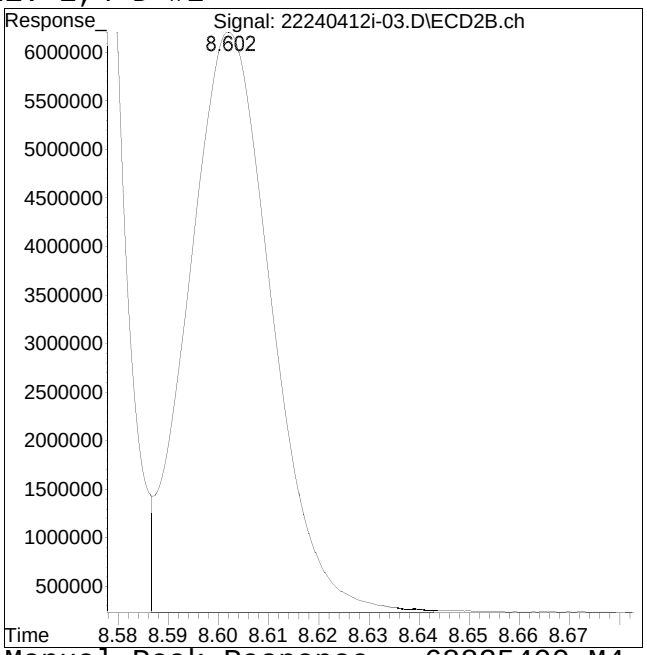
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-03.D Operator : pest22:peg
Date Inj'd : 4/12/2024 6:54 am Instrument : Pest22
Sample : il2herb,42e,,pp11463 L0.1/Quant Date : 4/12/2024 8:52 am

Compound #21: 2,4-D #2



Original Peak Response = 69915555



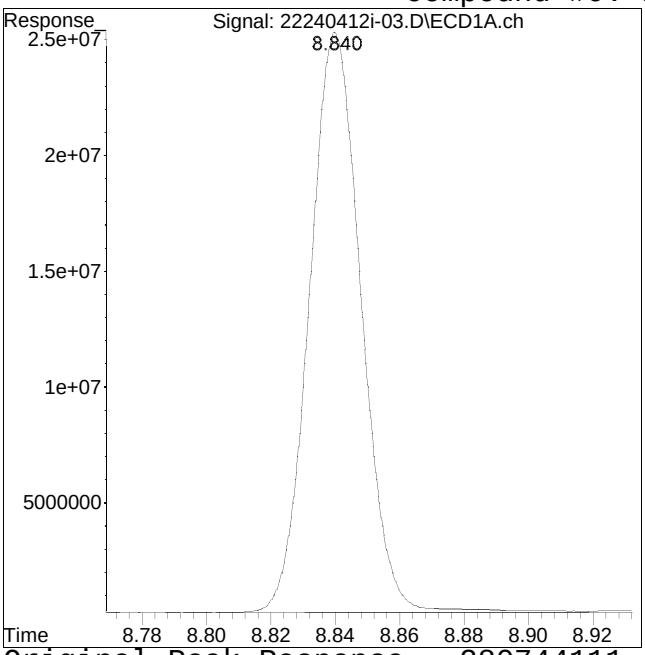
Manual Peak Response = 68835400 M4

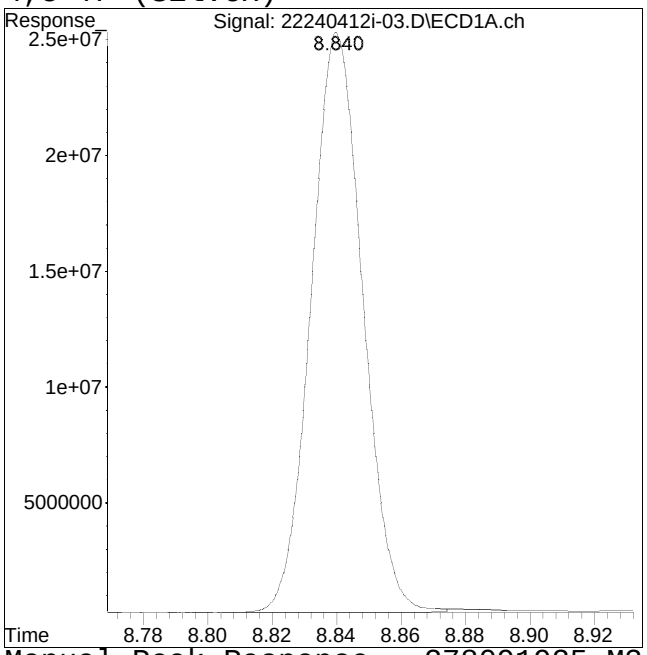
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-03.D Operator : pest22:peg
Date Inj'd : 4/12/2024 6:54 am Instrument : Pest22
Sample : il2herb,42e,,pp11463 L0.1/Quant Date : 4/12/2024 8:52 am

Compound #9: 2,4,5-TP (Silvex)



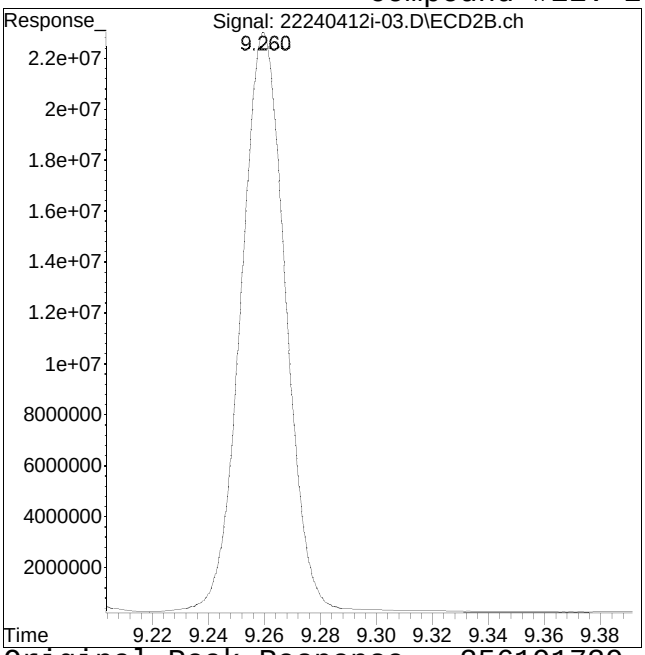


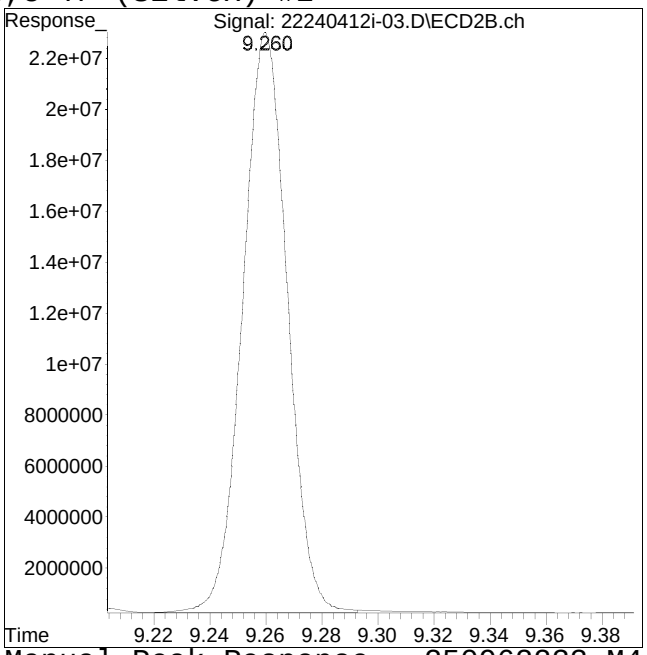
Original Peak Response = 280744111 Manual Peak Response = 278091925 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-03.D Operator : pest22:peg
Date Inj'd : 4/12/2024 6:54 am Instrument : Pest22
Sample : il2herb,42e,,pp11463 L0.1/Quant Date : 4/12/2024 8:52 am

Compound #22: 2,4,5-TP (Silvex) #2



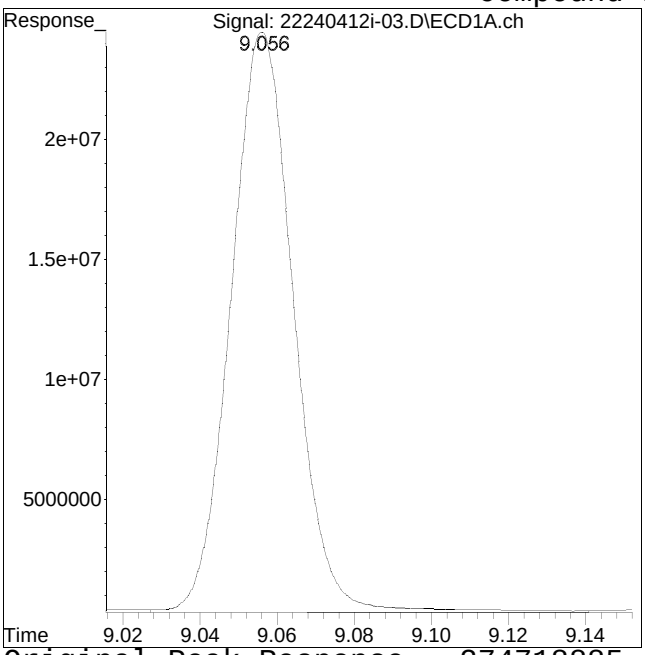


Original Peak Response = 256191739 Manual Peak Response = 250962233 M4
M4 = Poor automated baseline construction.

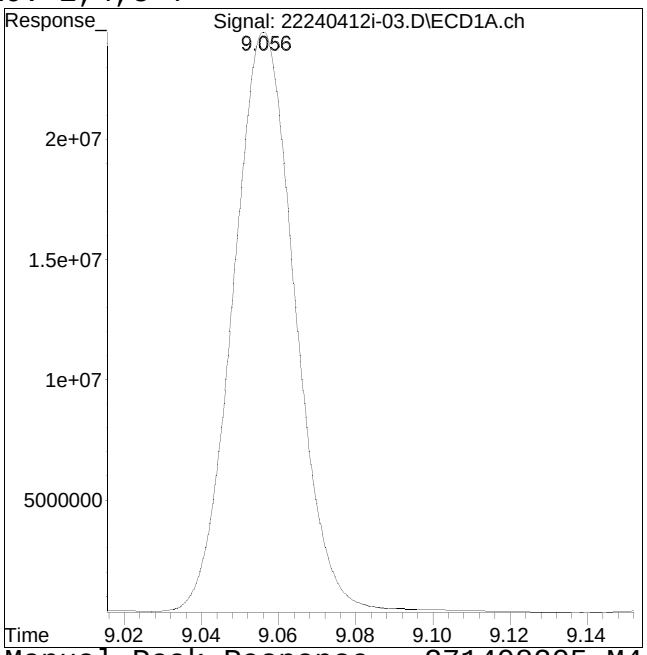
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-03.D Operator : pest22:peg
Date Inj'd : 4/12/2024 6:54 am Instrument : Pest22
Sample : il2herb,42e,,pp11463 L0.1/Quant Date : 4/12/2024 8:52 am

Compound #10: 2,4,5-T



Original Peak Response = 274718885



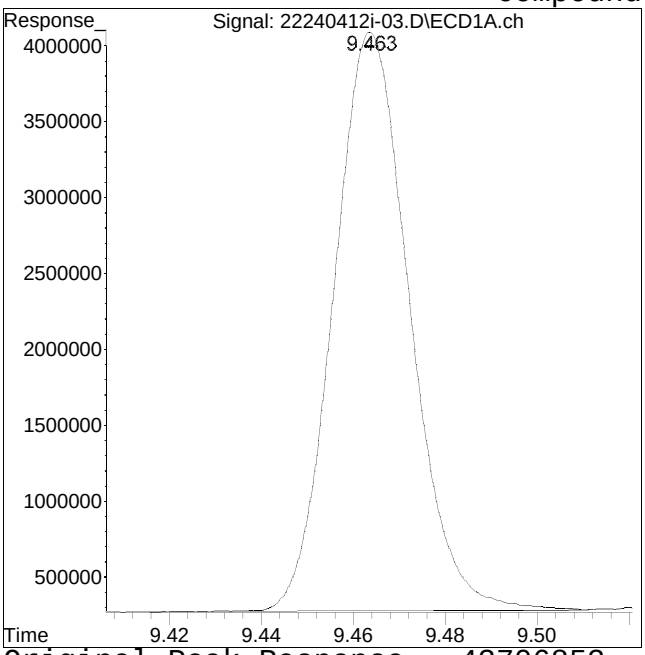
Manual Peak Response = 271408205 M4

M4 = Poor automated baseline construction.

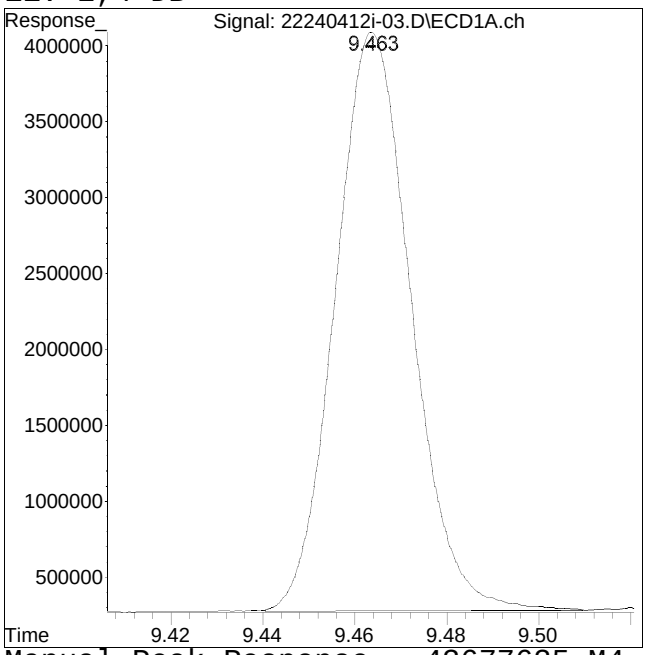
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-03.D Operator : pest22:peg
Date Inj'd : 4/12/2024 6:54 am Instrument : Pest22
Sample : il2herb,42e,,pp11463 L0.1/Quant Date : 4/12/2024 8:52 am

Compound #11: 2,4-DB



Original Peak Response = 43706853



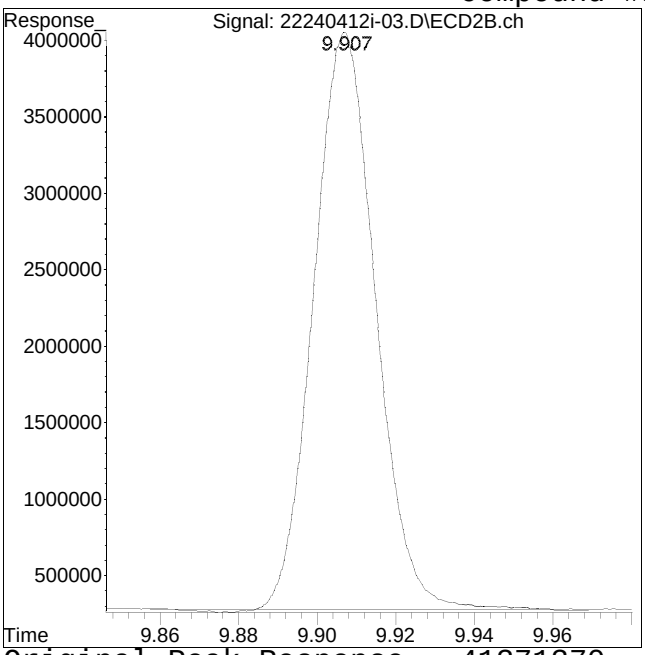
Manual Peak Response = 43677635 M4

M4 = Poor automated baseline construction.

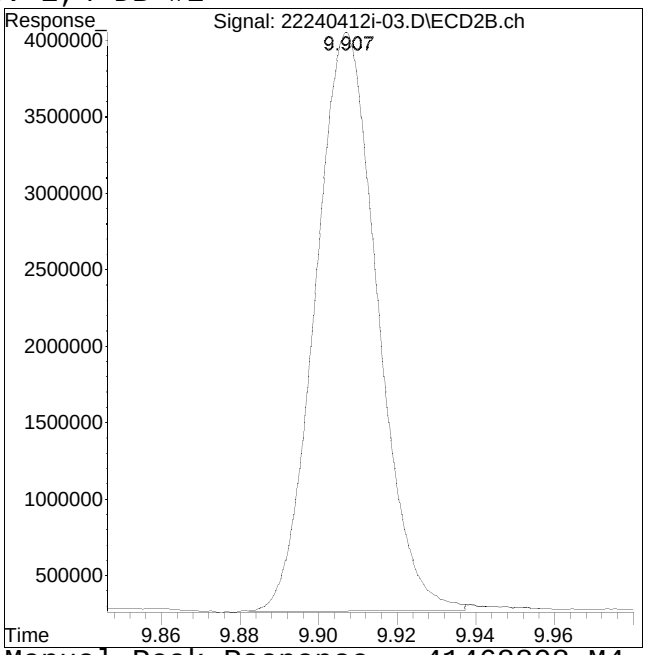
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-03.D Operator : pest22:peg
Date Inj'd : 4/12/2024 6:54 am Instrument : Pest22
Sample : il2herb,42e,,pp11463 L0.1/Quant Date : 4/12/2024 8:52 am

Compound #24: 2,4-DB #2



Original Peak Response = 41371370

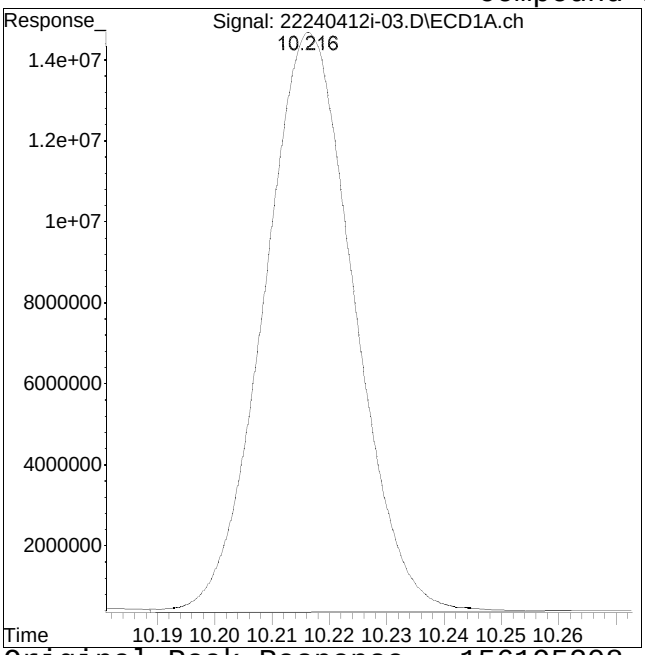


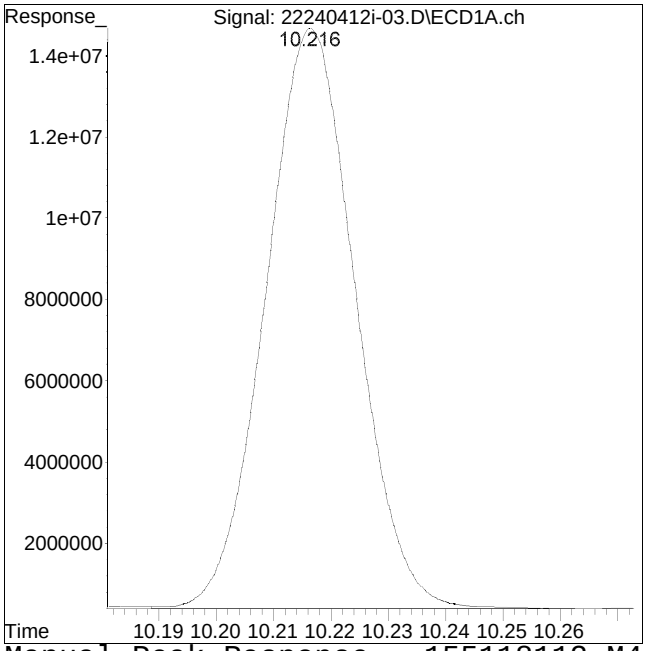
Manual Peak Response = 41468808 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-03.D Operator : pest22:peg
Date Inj'd : 4/12/2024 6:54 am Instrument : Pest22
Sample : il2herb,42e,,pp11463 L0.1/Quant Date : 4/12/2024 8:52 am

Compound #12: Dinoseb





Original Peak Response = 156195208 Manual Peak Response = 155118112 M4
M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest22\2024\240412ical\
Data File : 22240412i-04.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 12 Apr 2024 07:12 am
Operator : pest22:peg
Sample : il3herb,42e,,pp11462 L0.2/20 (Sig #1); ilherb42e,,pp11462 L0.2/20 (Sig #2)
Misc : wg1907956, (Sig #1); ical (Sig #2)
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Apr 12 08:31:41 2024
Quant Method : I:\PEST\Pest22\2024\240412ical\Herb22_2024_04_12_mgL_ICAL.m
Quant Title : herb
QLast Update : Fri Apr 12 08:31:21 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

		Compound	RT#1	RT#2	Resp#1	Resp#2	mg/l	mg/l
		Internal Standards						
1)	i	4,4'-DBOB	8.572	8.564	756.3E6	703.2E6	0.250M4	0.250
		System Monitoring Compounds						
3)	s	DCAA (surrog	7.028	7.495	123.2E6	111.1E6	NoCal	NoCal M4
		Spiked Amount	0.500	Range 30 - 150		Recovery =	0.00%#	0.00%#
		Target Compounds						
2)	t	Dalapon	2.422	2.419	119.9E6	102.9E6	NoCal	NoCal M3
4)	t	Dicamba	7.212	7.677	355.2E6	323.0E6	NoCal M4	NoCal M4
5)	t	MCPP	7.413	7.787	31114458	39358453	NoCal M4	NoCal M3
6)	t	MCPA	7.559	8.013	57229158	66517204	NoCal	NoCal M4
7)	t	Dichloroprop	7.914	8.330	117.1E6	105.4E6	NoCal M4	NoCal M4
8)	t	2,4-D	8.123	8.602	144.4E6	127.9E6	NoCal M4	NoCal M4
9)	t	2,4,5-TP (Si	8.840	9.260	531.6E6	472.3E6	NoCal M4	NoCal M4
10)	t	2,4,5-T	9.056	9.546	515.7E6	455.2E6	NoCal M4	NoCal
11)	t	2,4-DB	9.463	9.907	81317538	77337034	NoCal	NoCal
12)	t	Dinoseb	10.216	10.131	298.6E6	267.3E6	NoCal M4	NoCal
		SemiQuant Compounds - Not Calibrated on this Instrument						

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest22\2024\240412ical\
Data File : 22240412i-04.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 12 Apr 2024 07:12 am
Operator : pest22:peg
Sample : il3herb,42e,,pp11462 L0.2/20 (Sig #1); ilherb42e,,pp11462 L0.2/20 (Sig #2)
Misc : wg1907956, (Sig #1); ical (Sig #2)
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Apr 12 08:31:41 2024
Quant Method : I:\PEST\Pest22\2024\240412ical\Herb22_2024_04_12_mgL_ICAL.m
Quant Title : herb
QLast Update : Fri Apr 12 08:31:21 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	mg/l	mg/l

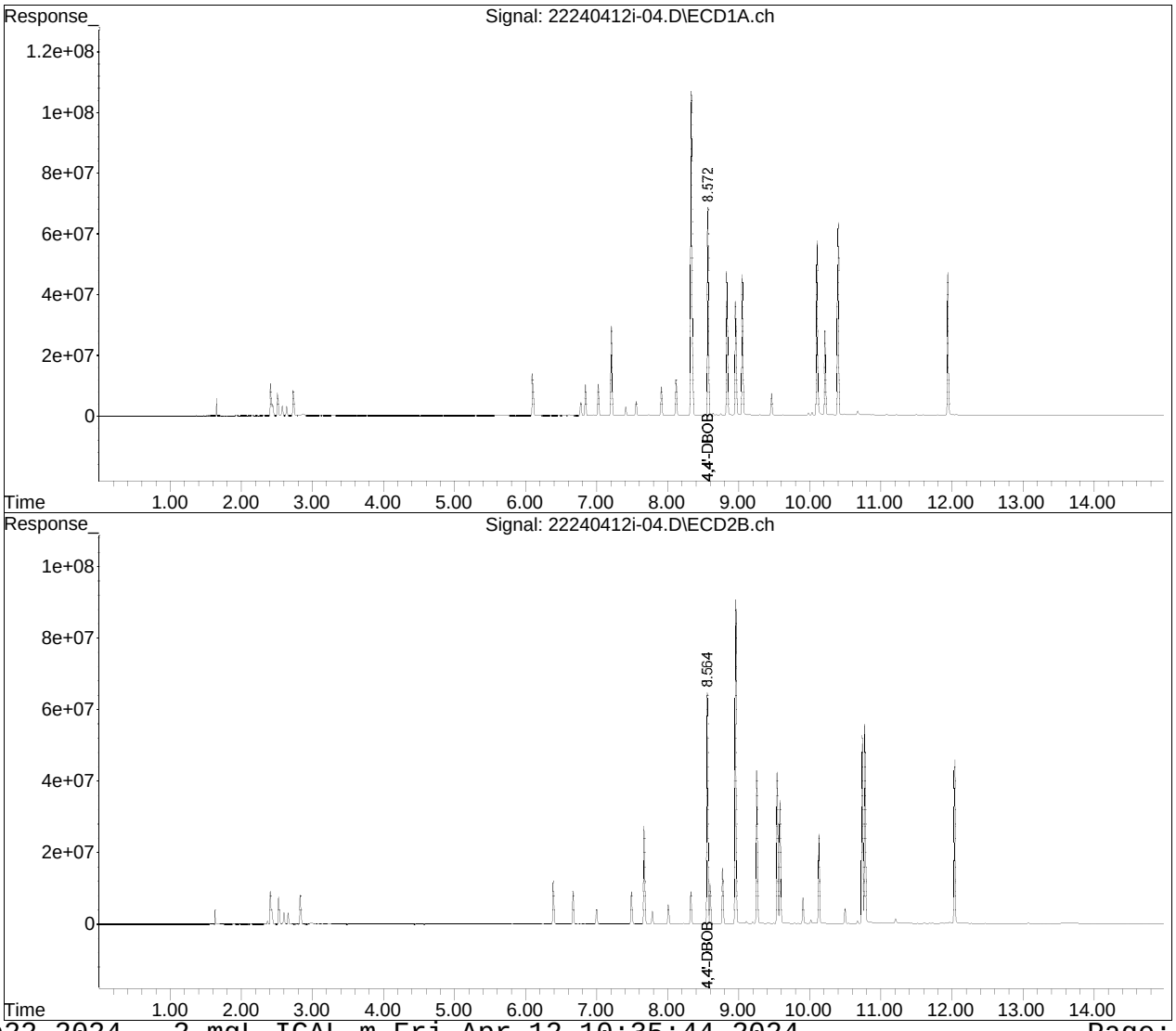
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest22\2024\240412ical\
Data File : 22240412i-04.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 12 Apr 2024 07:12 am
Operator : pest22:peg
Sample : il3herb,42e,,pp11462 L0.2/20 (Sig #1); ilherb42e,,pp11462 L0.2/20
Misc : wg1907956, (Sig #1); ical (Sig #2)
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Apr 12 08:31:41 2024
Quant Method : I:\PEST\Pest22\2024\240412ical\Herb22_2024_04_12_mgL_ICAL.m
Quant Title : herb
QLast Update : Fri Apr 12 08:31:21 2024
Response via : Initial Calibration
Integrator: ChemStation

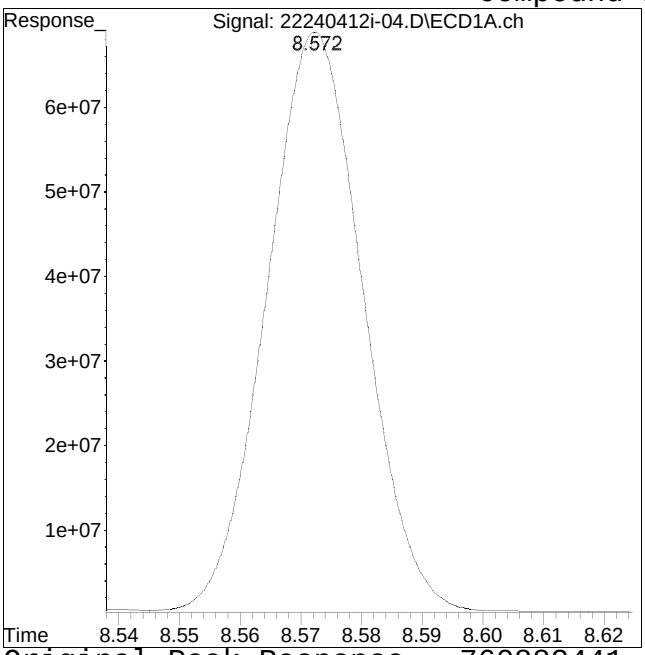
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

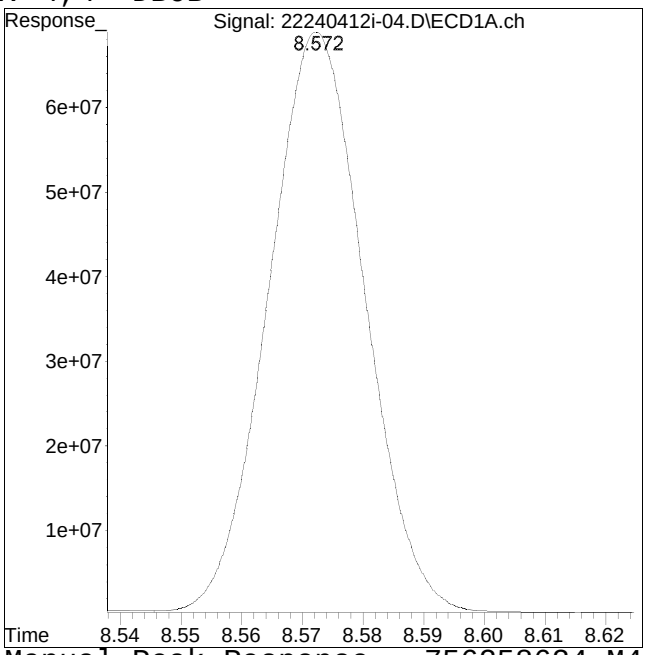


Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-04.D Operator : pest22:peg
Date Inj'd : 4/12/2024 7:12 am Instrument : Pest22
Sample : il3herb,42e,,pp11462 L0.2/Quant Date : 4/12/2024 8:31 am

Compound #1: 4,4'-DBOB



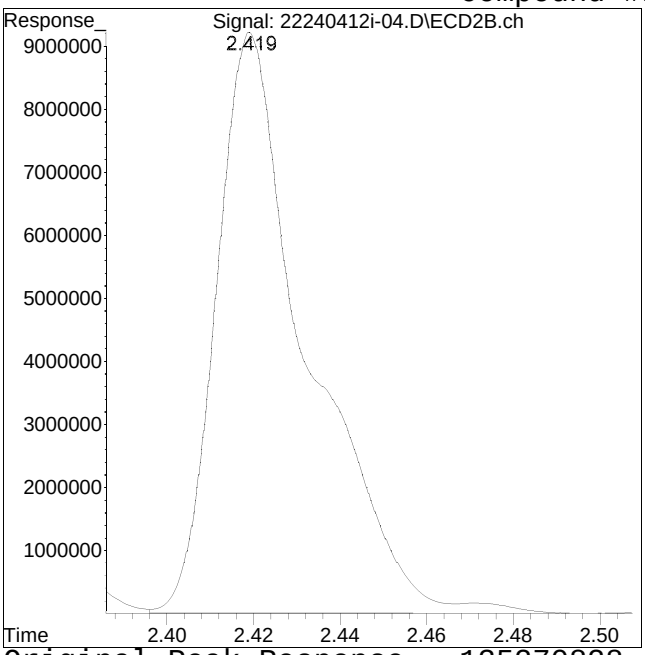


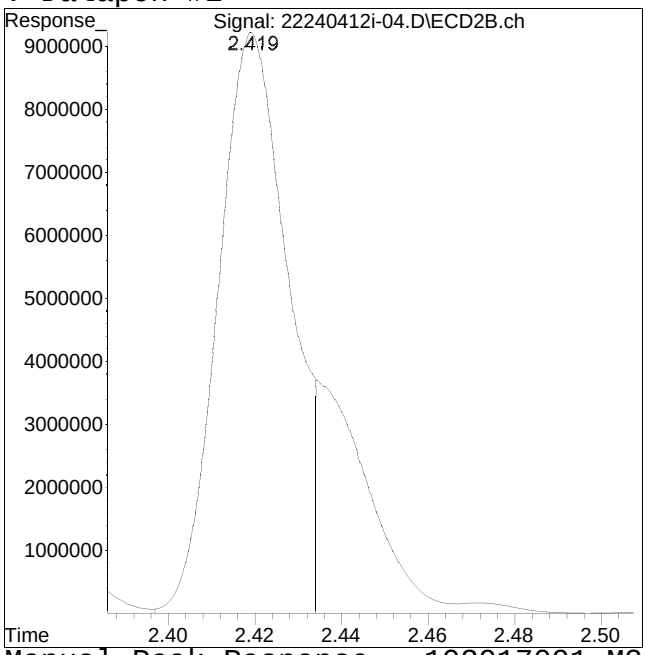
Original Peak Response = 760882441 Manual Peak Response = 756258624 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-04.D Operator : pest22:peg
Date Inj'd : 4/12/2024 7:12 am Instrument : Pest22
Sample : il3herb,42e,,pp11462 L0.2/Quant Date : 4/12/2024 8:31 am

Compound #15: Dalapon #2



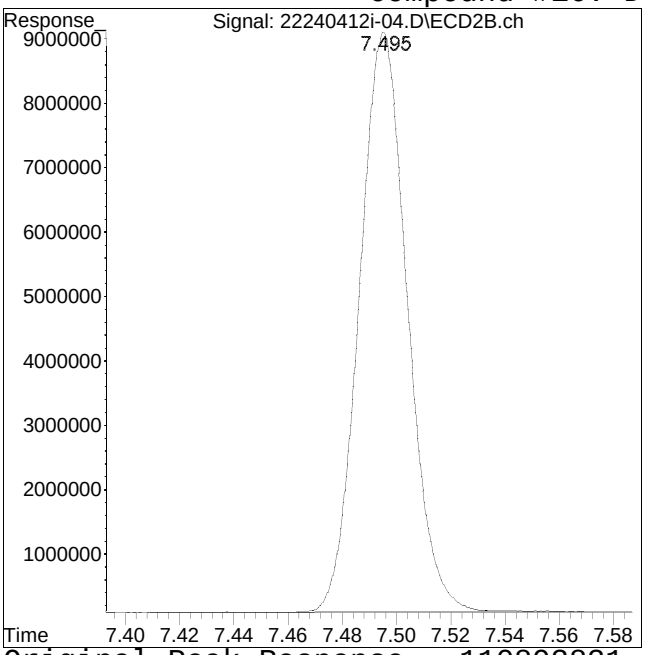


Original Peak Response = 135270828 Manual Peak Response = 102917091 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

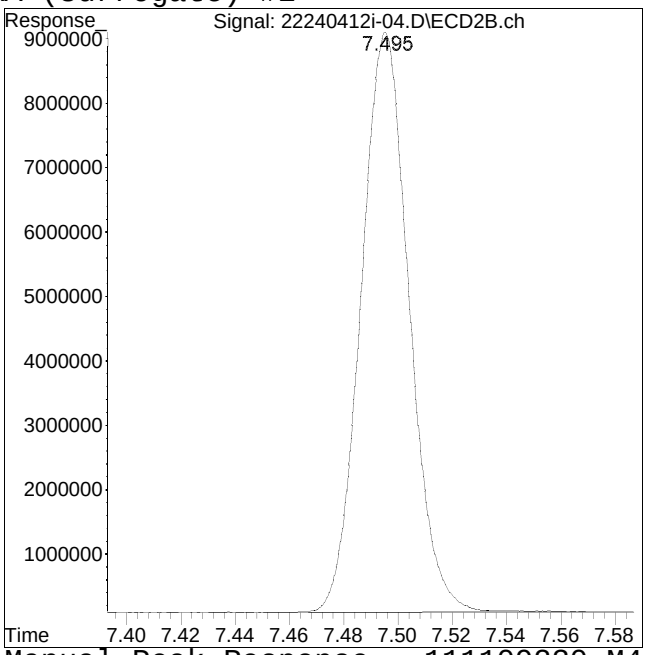
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-04.D Operator : pest22:peg
Date Inj'd : 4/12/2024 7:12 am Instrument : Pest22
Sample : il3herb,42e,,pp11462 L0.2/Quant Date : 4/12/2024 8:31 am

Compound #16: DCAA (surrogate) #2



Original Peak Response = 110893831

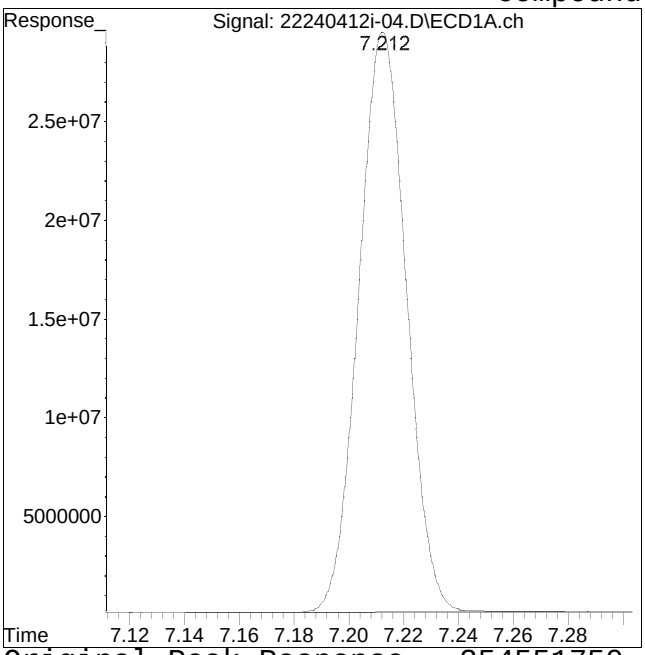


Manual Peak Response = 111109230 M4
M4 = Poor automated baseline construction.

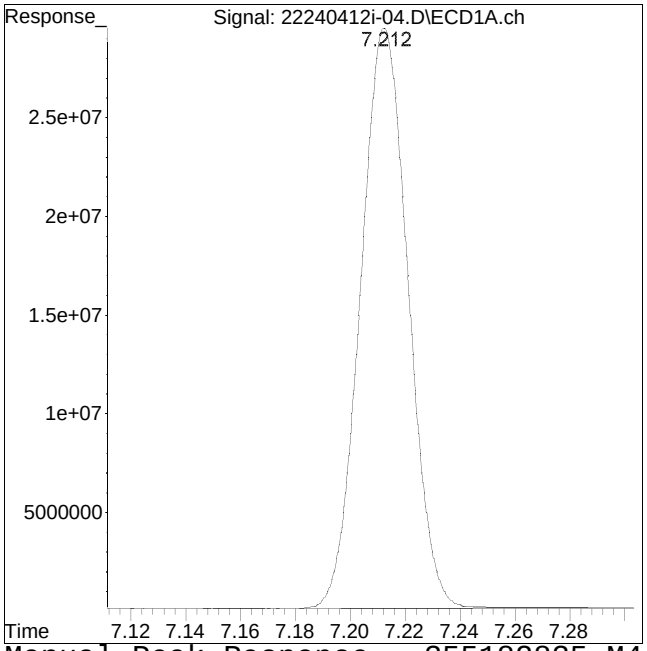
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-04.D Operator : pest22:peg
Date Inj'd : 4/12/2024 7:12 am Instrument : Pest22
Sample : il3herb,42e,,pp11462 L0.2/Quant Date : 4/12/2024 8:31 am

Compound #4: Dicamba



Original Peak Response = 354551750



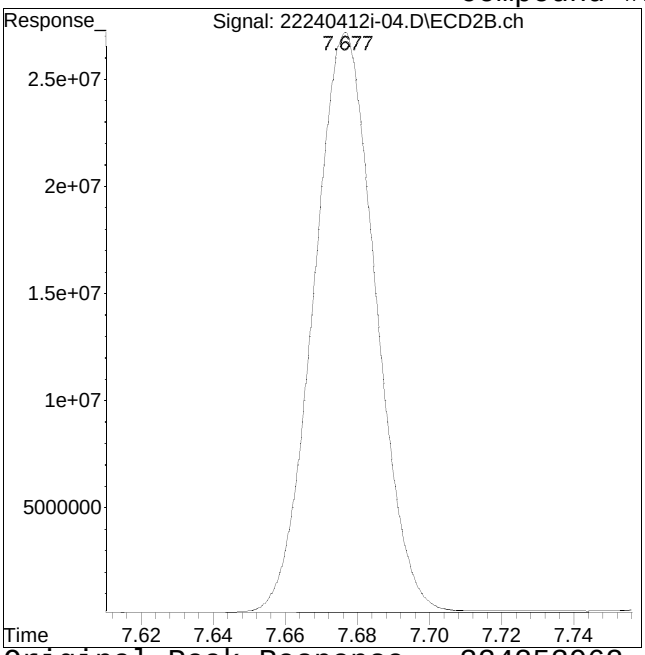
Manual Peak Response = 355182835 M4

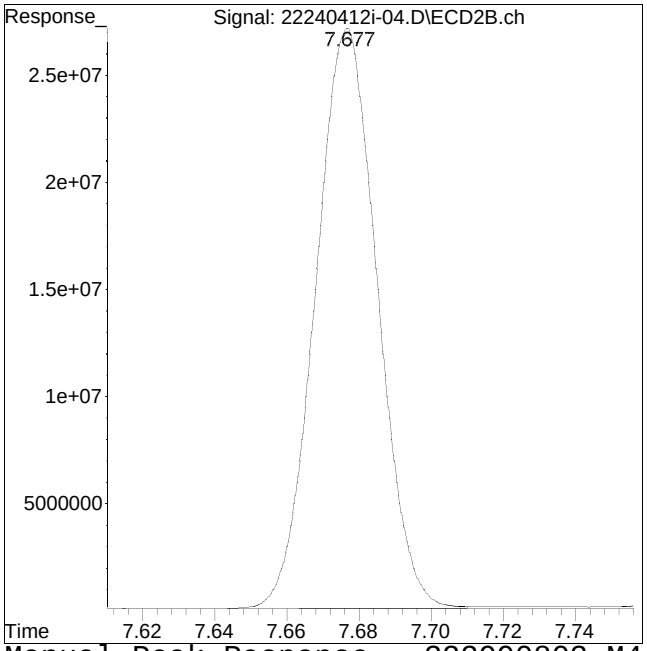
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-04.D Operator : pest22:peg
Date Inj'd : 4/12/2024 7:12 am Instrument : Pest22
Sample : il3herb,42e,,pp11462 L0.2/Quant Date : 4/12/2024 8:31 am

Compound #17: Dicamba #2



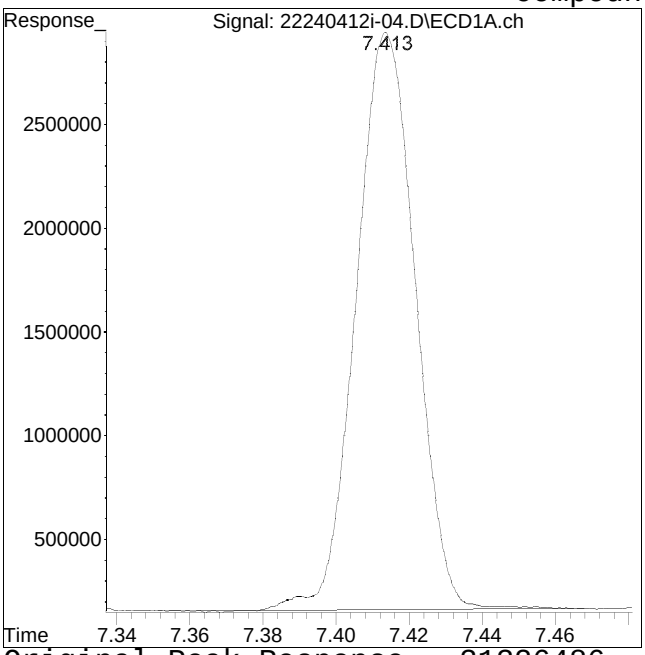


Original Peak Response = 324253962 Manual Peak Response = 322990803 M4
M4 = Poor automated baseline construction.

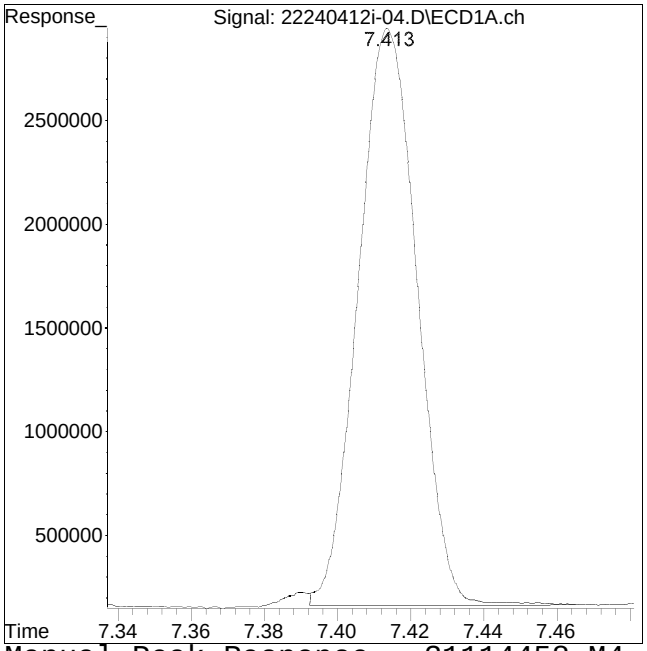
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-04.D Operator : pest22:peg
Date Inj'd : 4/12/2024 7:12 am Instrument : Pest22
Sample : il3herb,42e,,pp11462 L0.2/Quant Date : 4/12/2024 8:31 am

Compound #5: MCPP



Original Peak Response = 31326486



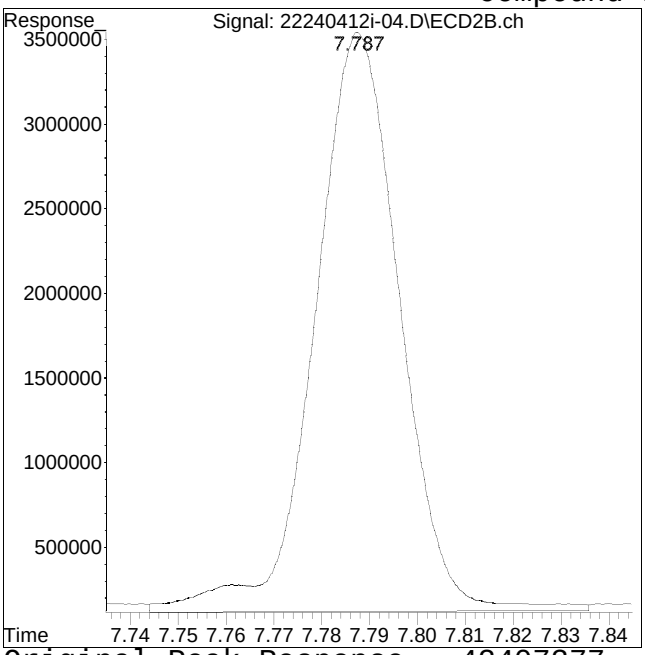
Manual Peak Response = 31114458 M4

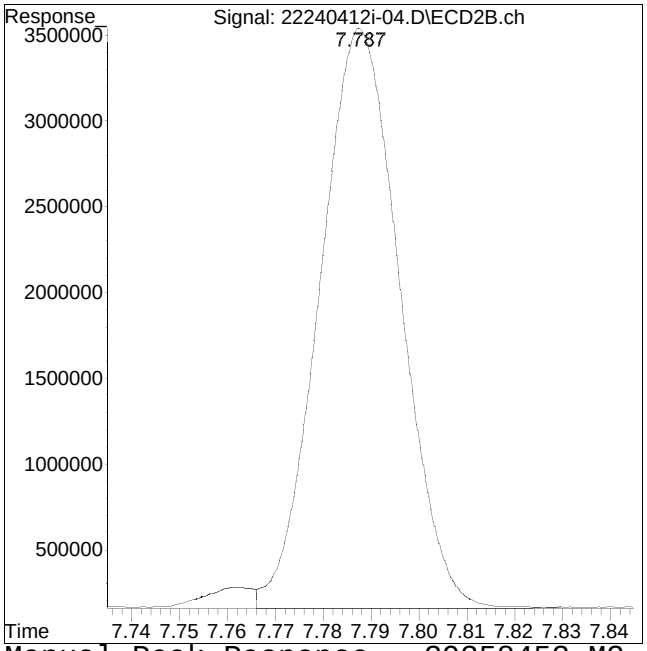
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-04.D Operator : pest22:peg
Date Inj'd : 4/12/2024 7:12 am Instrument : Pest22
Sample : il3herb,42e,,pp11462 L0.2/Quant Date : 4/12/2024 8:31 am

Compound #18: MCPP #2



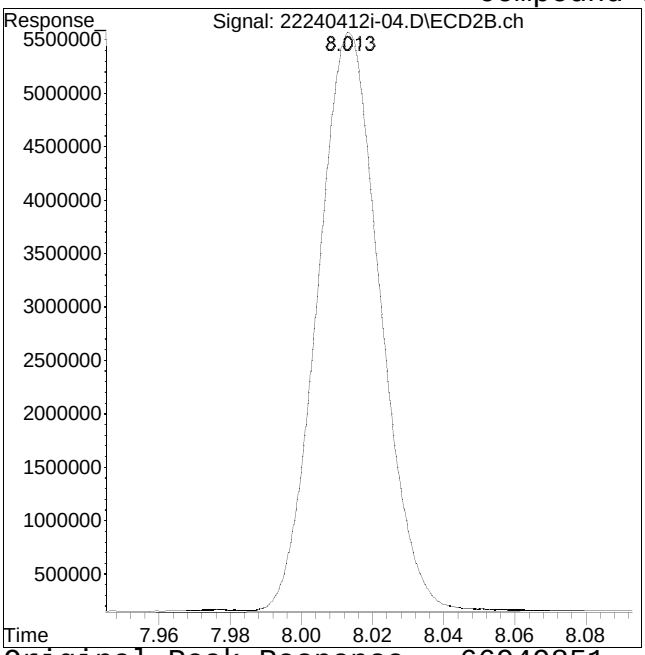


Original Peak Response = 42407377 Manual Peak Response = 39358453 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

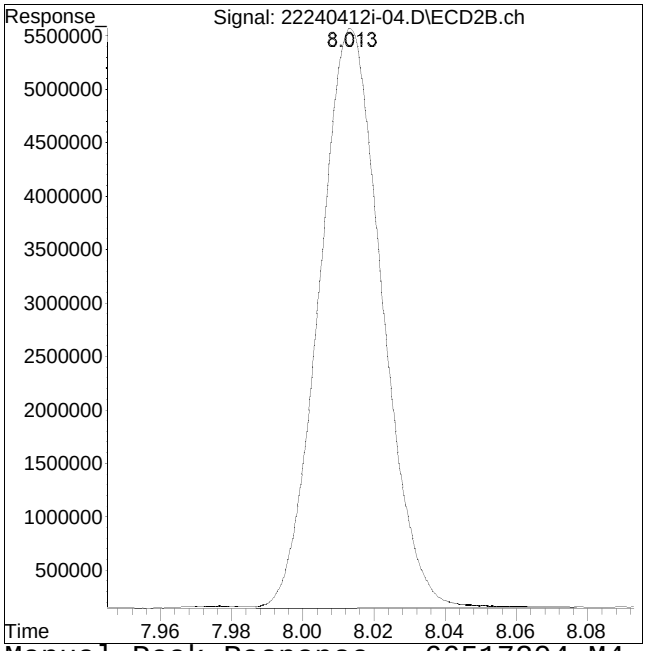
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-04.D Operator : pest22:peg
Date Inj'd : 4/12/2024 7:12 am Instrument : Pest22
Sample : il3herb,42e,,pp11462 L0.2/Quant Date : 4/12/2024 8:31 am

Compound #19: MCPA #2



Original Peak Response = 66949851



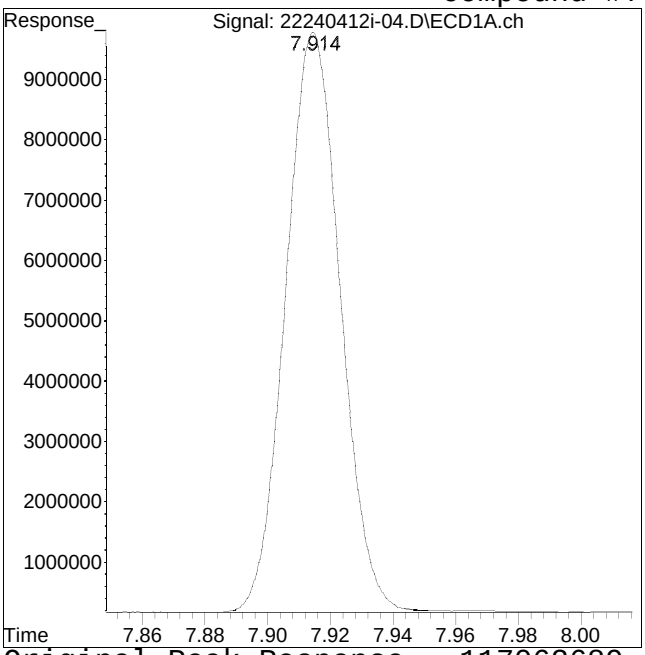
Manual Peak Response = 66517204 M4

M4 = Poor automated baseline construction.

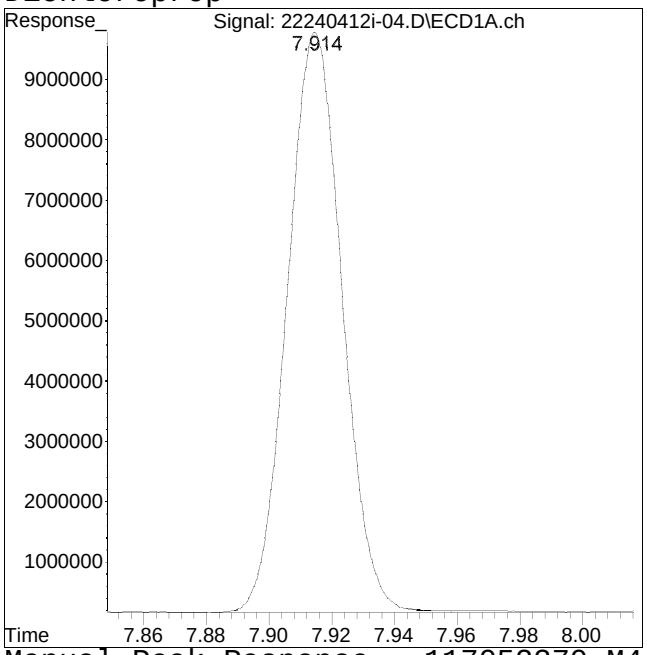
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-04.D Operator : pest22:peg
Date Inj'd : 4/12/2024 7:12 am Instrument : Pest22
Sample : il3herb,42e,,pp11462 L0.2/Quant Date : 4/12/2024 8:31 am

Compound #7: Dichloroprop



Original Peak Response = 117062689

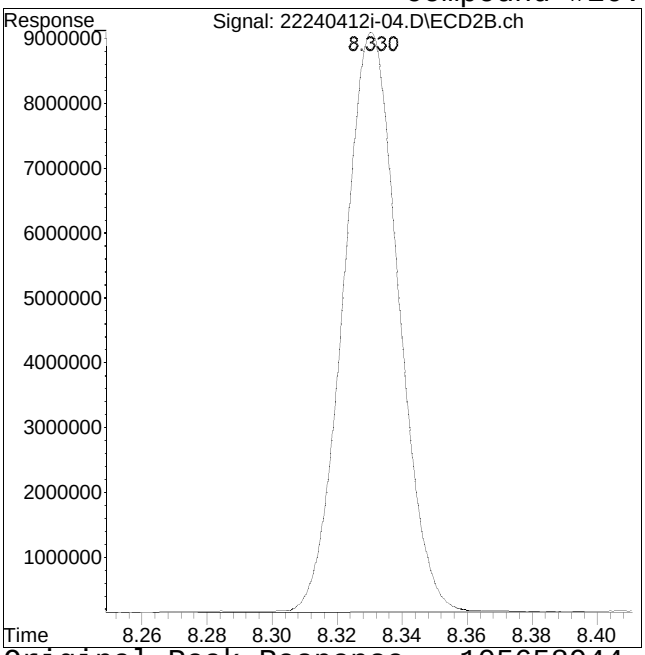


Manual Peak Response = 117052370 M4
M4 = Poor automated baseline construction.

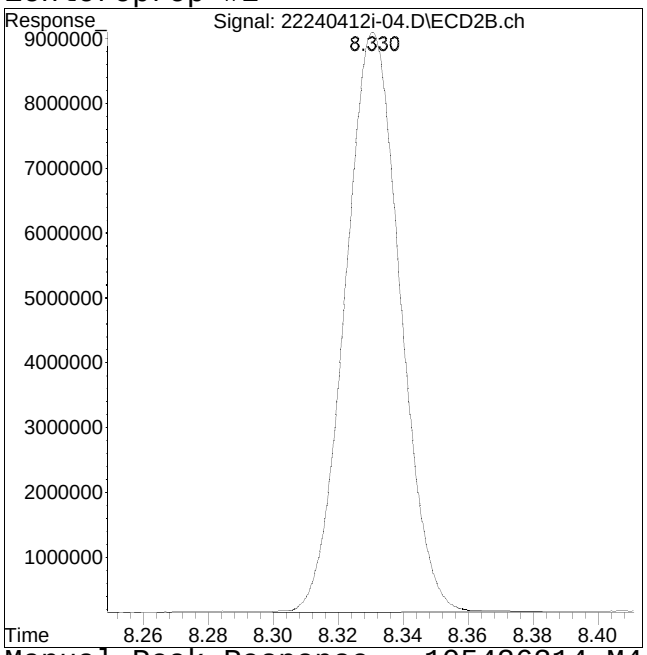
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-04.D Operator : pest22:peg
Date Inj'd : 4/12/2024 7:12 am Instrument : Pest22
Sample : il3herb,42e,,pp11462 L0.2/Quant Date : 4/12/2024 8:31 am

Compound #20: Dichloroprop #2



Original Peak Response = 105658944



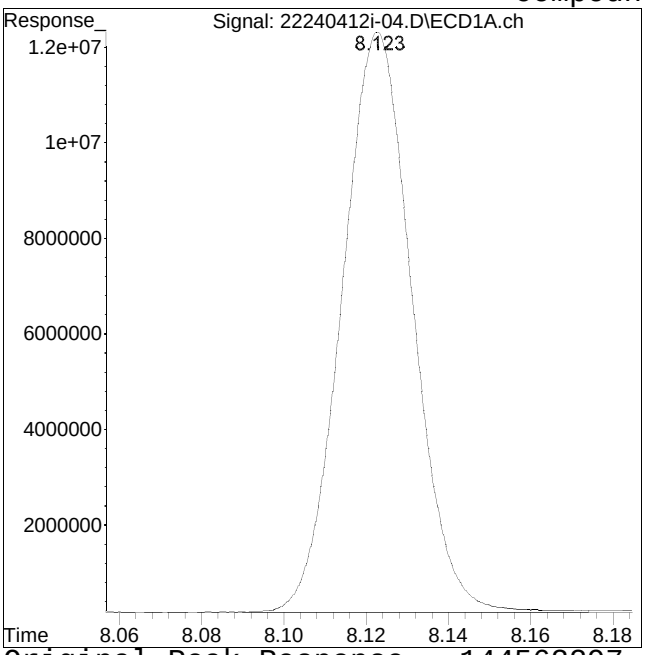
Manual Peak Response = 105426314 M4

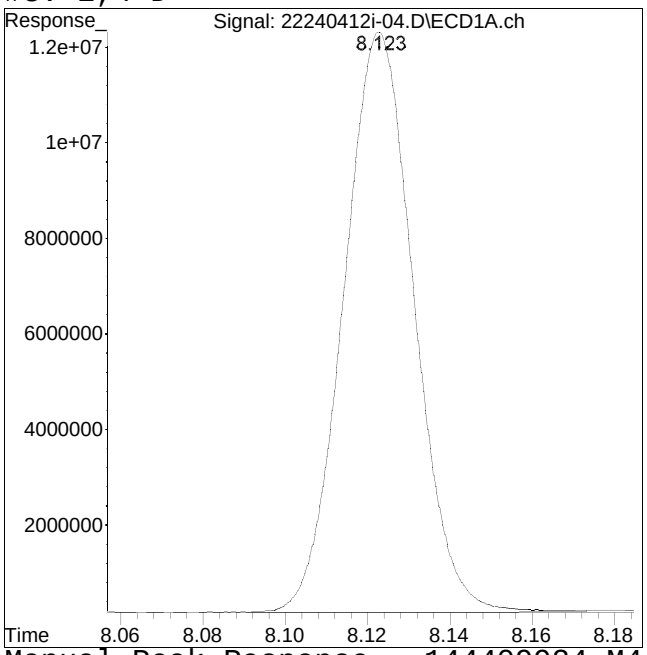
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-04.D Operator : pest22:peg
Date Inj'd : 4/12/2024 7:12 am Instrument : Pest22
Sample : il3herb,42e,,pp11462 L0.2/Quant Date : 4/12/2024 8:31 am

Compound #8: 2,4-D



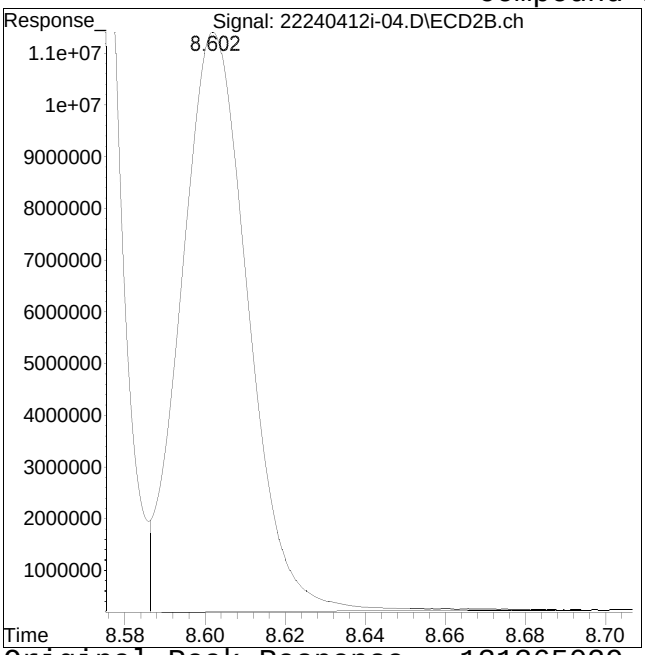


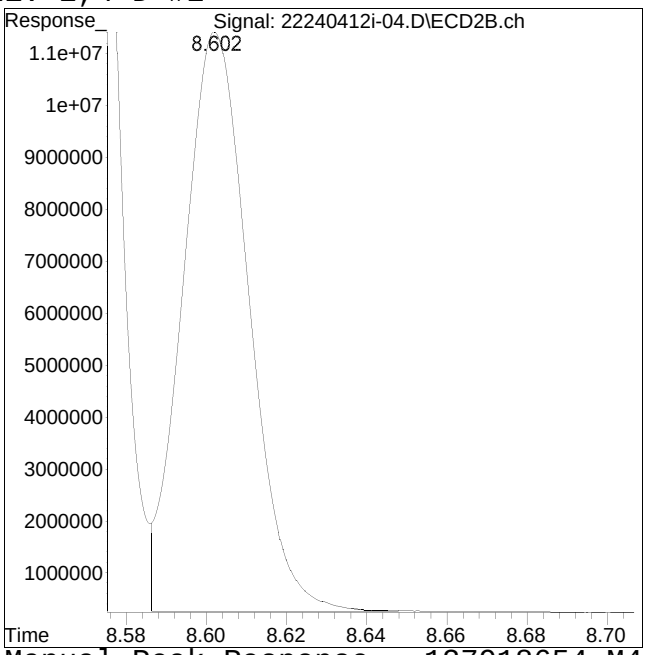
Original Peak Response = 144562297 Manual Peak Response = 144409924 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-04.D Operator : pest22:peg
Date Inj'd : 4/12/2024 7:12 am Instrument : Pest22
Sample : il3herb,42e,,pp11462 L0.2/Quant Date : 4/12/2024 8:31 am

Compound #21: 2,4-D #2



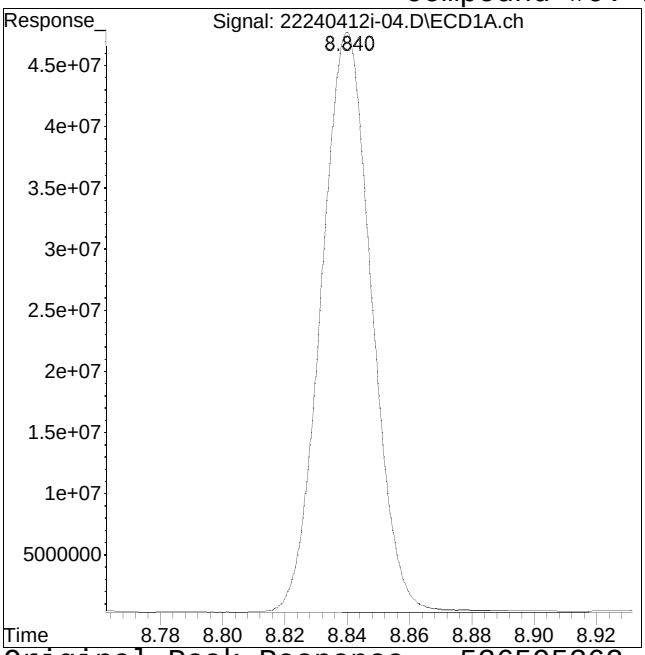


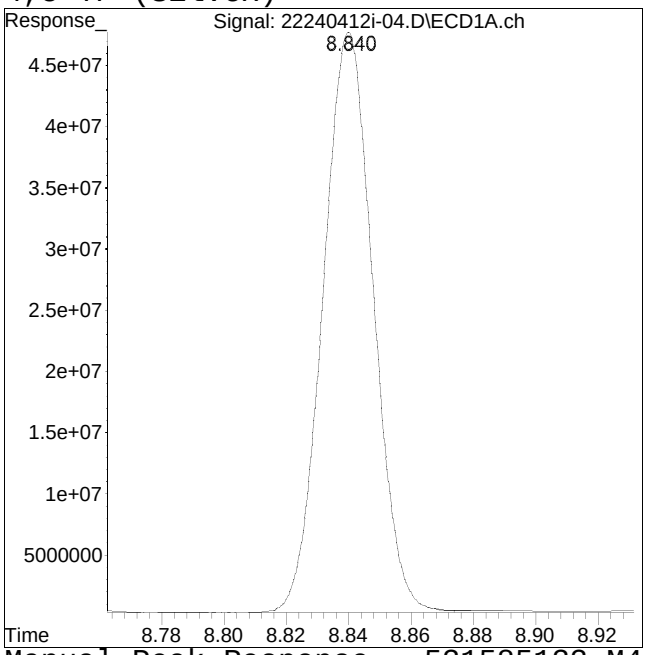
Original Peak Response = 131365029 Manual Peak Response = 127918654 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-04.D Operator : pest22:peg
Date Inj'd : 4/12/2024 7:12 am Instrument : Pest22
Sample : il3herb,42e,,pp11462 L0.2/Quant Date : 4/12/2024 8:31 am

Compound #9: 2,4,5-TP (Silvex)



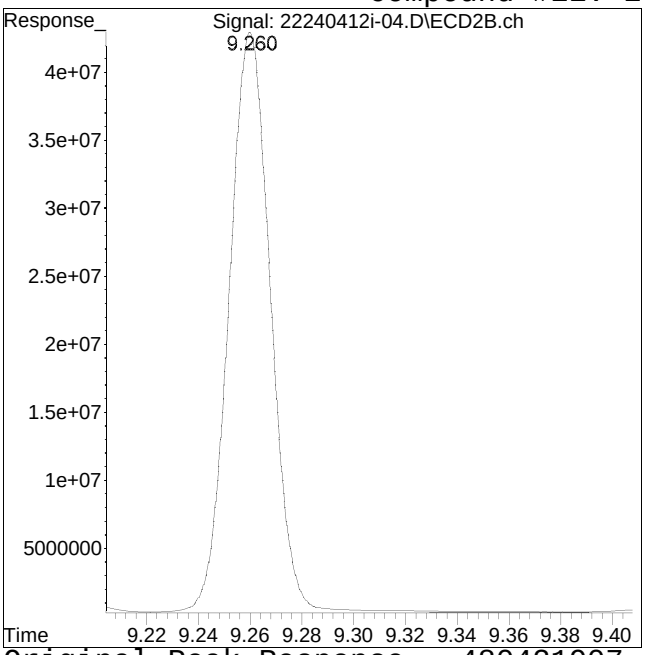


Original Peak Response = 536595362 Manual Peak Response = 531585133 M4
M4 = Poor automated baseline construction.

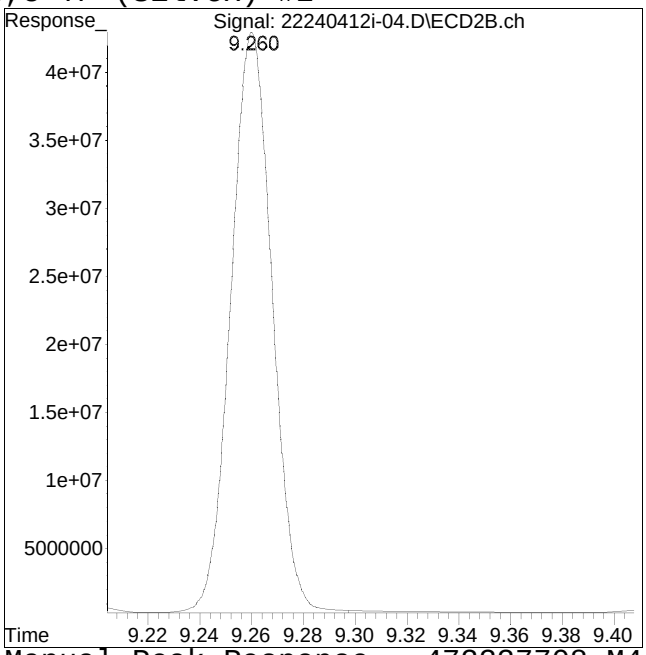
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-04.D Operator : pest22:peg
Date Inj'd : 4/12/2024 7:12 am Instrument : Pest22
Sample : il3herb,42e,,pp11462 L0.2/Quant Date : 4/12/2024 8:31 am

Compound #22: 2,4,5-TP (Silvex) #2



Original Peak Response = 480421907

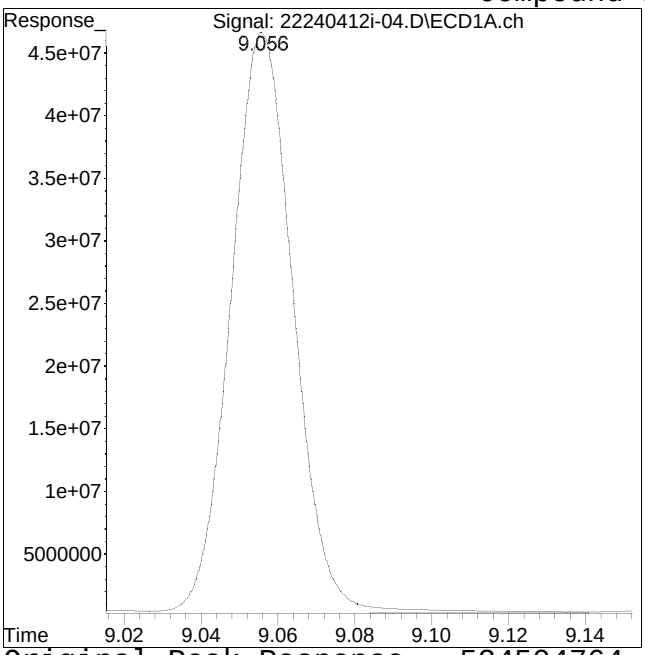


Manual Peak Response = 472337708 M4
M4 = Poor automated baseline construction.

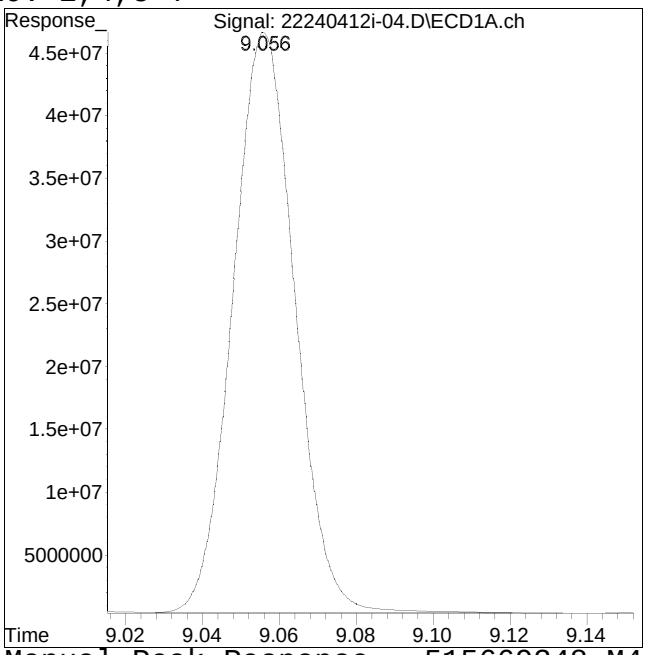
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-04.D Operator : pest22:peg
Date Inj'd : 4/12/2024 7:12 am Instrument : Pest22
Sample : il3herb,42e,,pp11462 L0.2/Quant Date : 4/12/2024 8:31 am

Compound #10: 2,4,5-T



Original Peak Response = 524504764



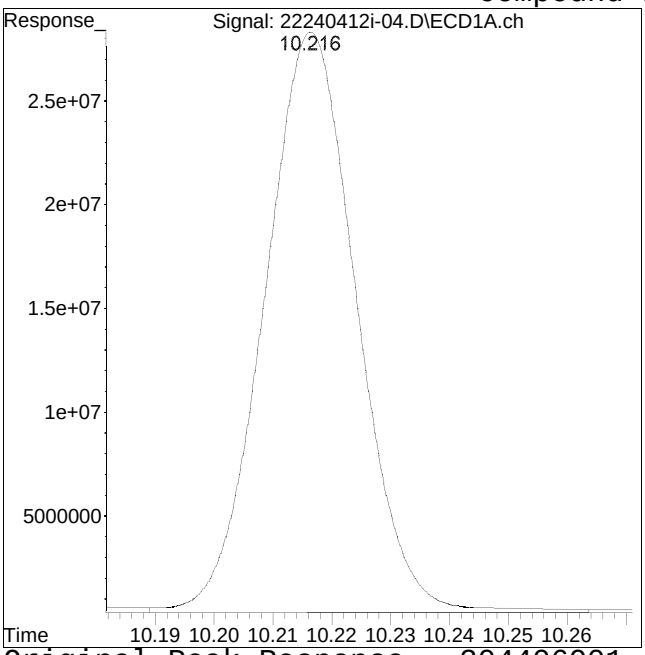
Manual Peak Response = 515669348 M4

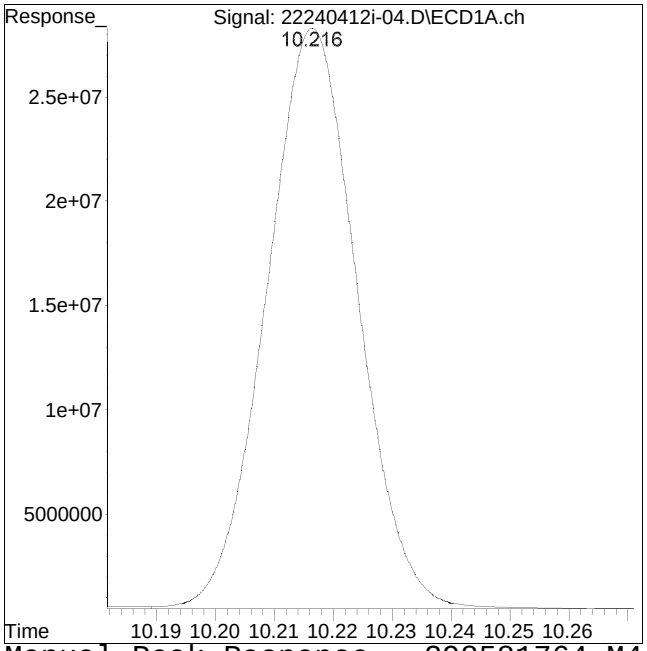
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-04.D Operator : pest22:peg
Date Inj'd : 4/12/2024 7:12 am Instrument : Pest22
Sample : il3herb,42e,,pp11462 L0.2/Quant Date : 4/12/2024 8:31 am

Compound #12: Dinoseb





Original Peak Response = 304406901 Manual Peak Response = 298581764 M4
M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest22\2024\240412ical\
Data File : 22240412i-05.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 12 Apr 2024 07:31 am
Operator : pest22:peg
Sample : il4herb,42e,,pp11461 L0.5/50 (Sig #1); ilherb42e,,pp11461 L0.5/50 (Sig #2)
Misc : wg1907956, (Sig #1); ical (Sig #2)
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Apr 12 08:36:42 2024
Quant Method : I:\PEST\Pest22\2024\240412ical\Herb22_2024_04_12_mgL_ICAL.m
Quant Title : herb
QLast Update : Fri Apr 12 08:36:15 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

		Compound	RT#1	RT#2	Resp#1	Resp#2	mg/l	mg/l
		Internal Standards						
1)	i	4,4'-DBOB	8.572	8.564	728.9E6	672.1E6	0.250M4	0.250
		System Monitoring Compounds						
3)	s	DCAA (surrog	7.027	7.495	269.9E6	239.5E6	0.427M4	0.424M4
		Spiked Amount	0.500	Range 30 - 150		Recovery =	85.40%	84.80%
		Target Compounds						
2)	t	Dalapon	2.421	2.418	271.5E6	257.3E6	0.428M3	0.476M4
4)	t	Dicamba	7.213	7.677	765.6E6	720.1E6	0.420	0.439
5)	t	MCPP	7.415	7.788	73199826	88785274	45.887M4	44.375M4
6)	t	MCPA	7.560	8.013	121.5E6	140.2E6	40.968M4	41.021M4
7)	t	Dichloroprop	7.915	8.331	249.3E6	225.9E6	0.415M4	0.422M4
8)	t	2,4-D	8.123	8.602	315.8E6	282.1E6	0.427	0.434M4
9)	t	2,4,5-TP (Si	8.840	9.260	1166.2E6	1040.4E6	0.432M3	0.438M4
10)	t	2,4,5-T	9.056	9.546	1153.0E6	1012.2E6	0.441M4	0.442
11)	t	2,4-DB	9.463	9.907	173.1E6	171.9E6	0.424M4	0.447
12)	t	Dinoseb	10.216	10.130	670.6E6	603.6E6	0.443M4	0.449M4

SemiQuant Compounds - Not Calibrated on this Instrument

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest22\2024\240412ical\
Data File : 22240412i-05.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 12 Apr 2024 07:31 am
Operator : pest22:peg
Sample : il4herb,42e,,pp11461 L0.5/50 (Sig #1); ilherb42e,,pp11461 L0.5/50 (Sig #2)
Misc : wg1907956, (Sig #1); ical (Sig #2)
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Apr 12 08:36:42 2024
Quant Method : I:\PEST\Pest22\2024\240412ical\Herb22_2024_04_12_mgL_ICAL.m
Quant Title : herb
QLast Update : Fri Apr 12 08:36:15 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	mg/l	mg/l

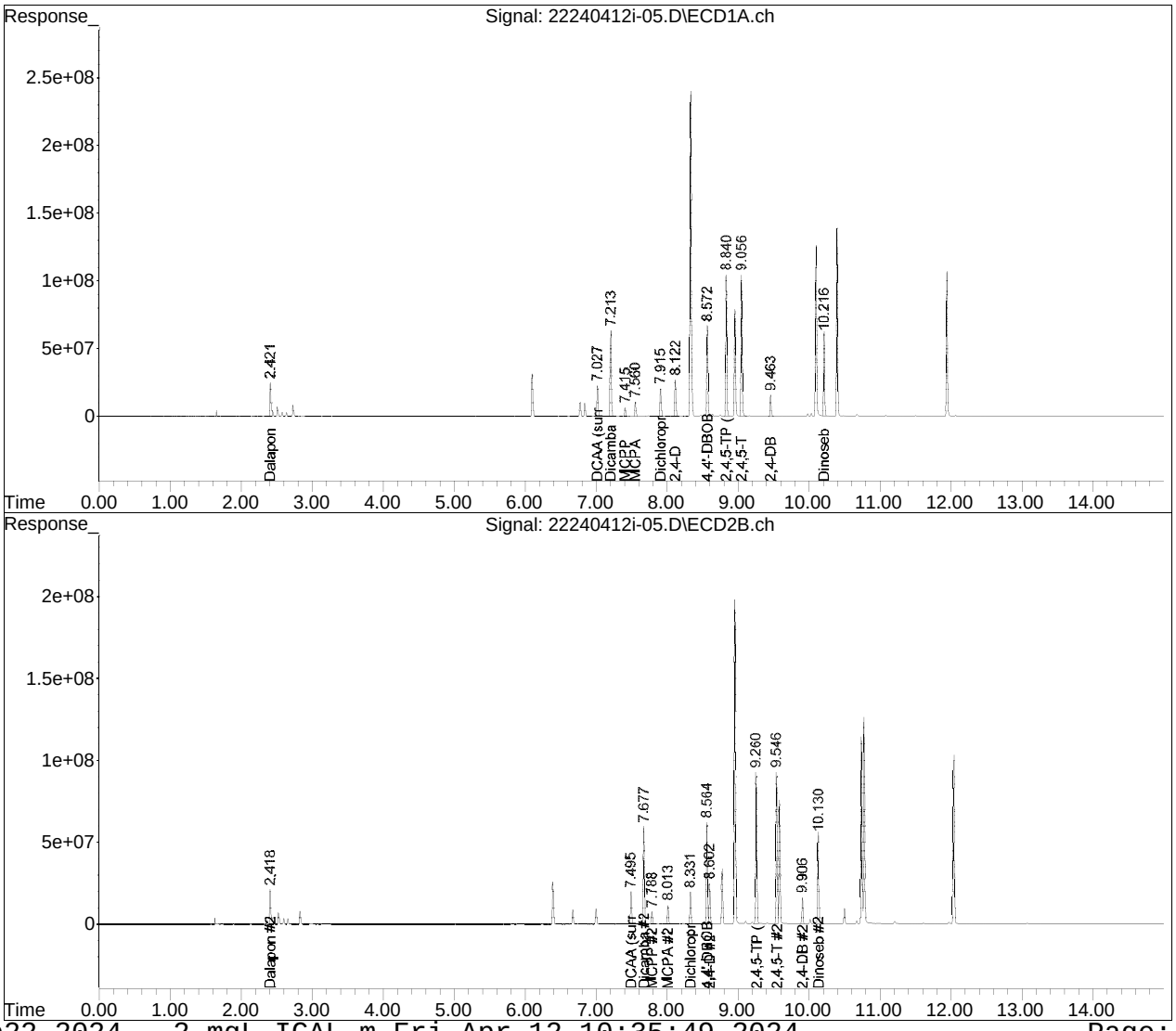
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest22\2024\240412ical\
Data File : 22240412i-05.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 12 Apr 2024 07:31 am
Operator : pest22:peg
Sample : il4herb,42e,,pp11461 L0.5/50 (Sig #1); ilherb42e,,pp11461 L0.5/50
Misc : wg1907956, (Sig #1); ical (Sig #2)
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Apr 12 08:36:42 2024
Quant Method : I:\PEST\Pest22\2024\240412ical\Herb22_2024_04_12_mgL_ICAL.m
Quant Title : herb
QLast Update : Fri Apr 12 08:36:15 2024
Response via : Initial Calibration
Integrator: ChemStation

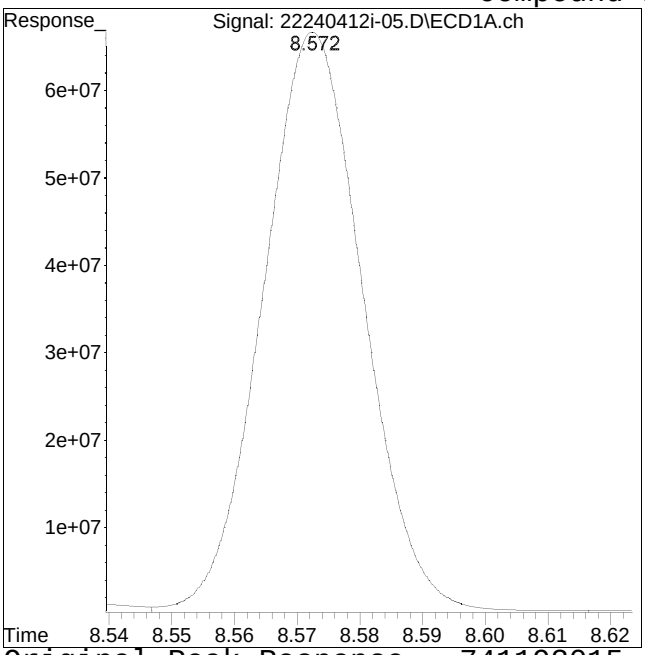
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

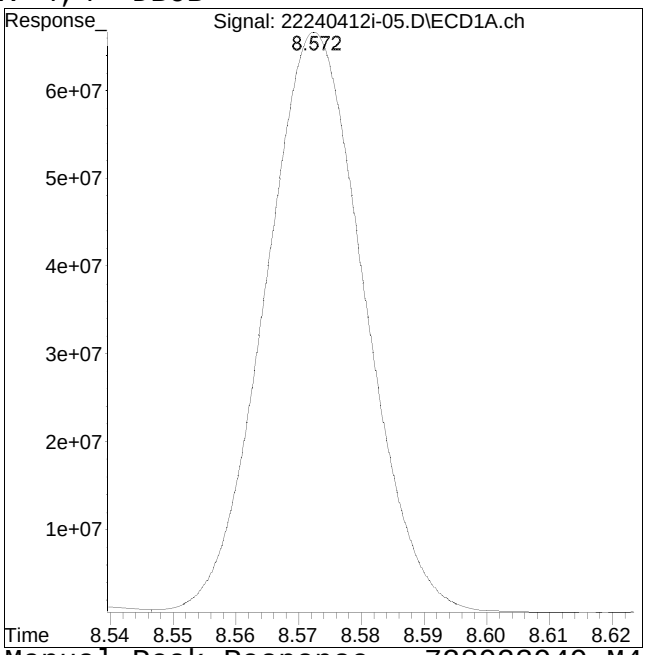


Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-05.D Operator : pest22:peg
Date Inj'd : 4/12/2024 7:31 am Instrument : Pest22
Sample : il4herb,42e,,pp11461 L0.5/Quant Date : 4/12/2024 8:36 am

Compound #1: 4,4'-DBOB



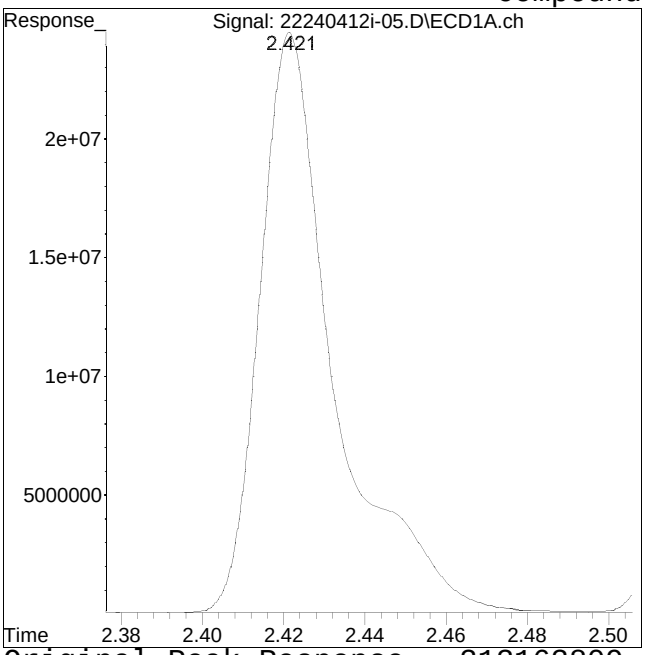


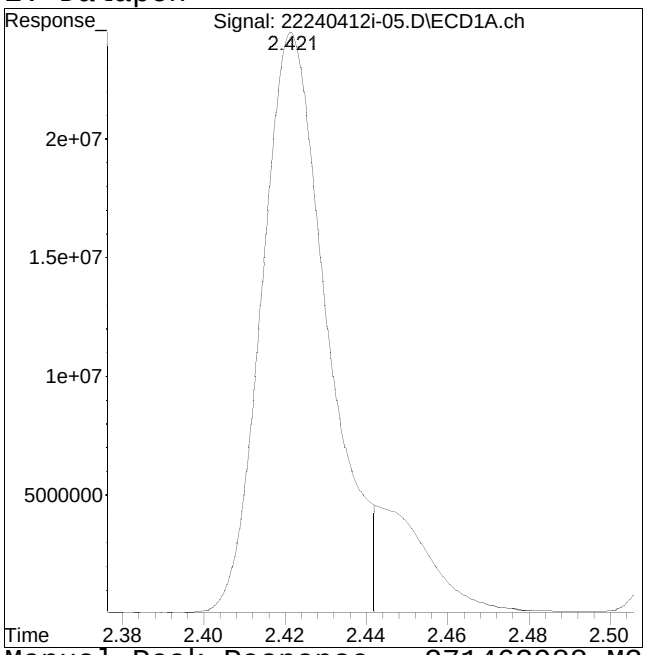
Original Peak Response = 741193015 Manual Peak Response = 728923949 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-05.D Operator : pest22:peg
Date Inj'd : 4/12/2024 7:31 am Instrument : Pest22
Sample : il4herb,42e,,pp11461 L0.5/Quant Date : 4/12/2024 8:36 am

Compound #2: Dalapon



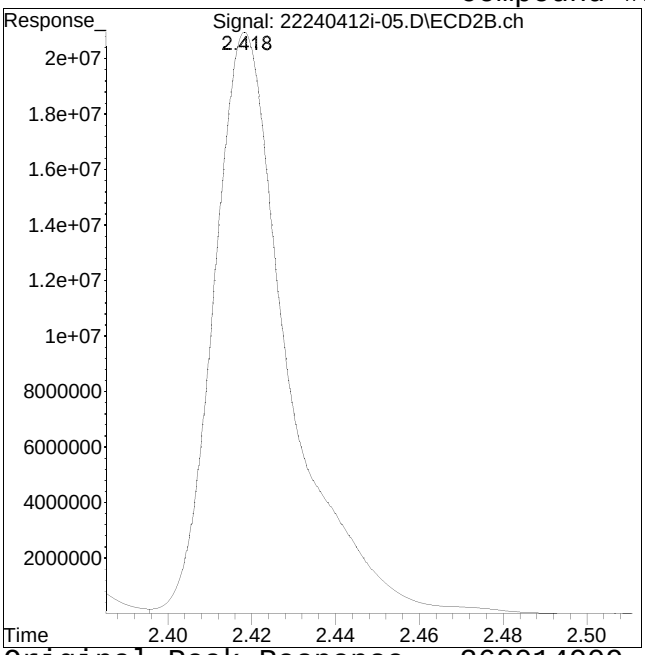


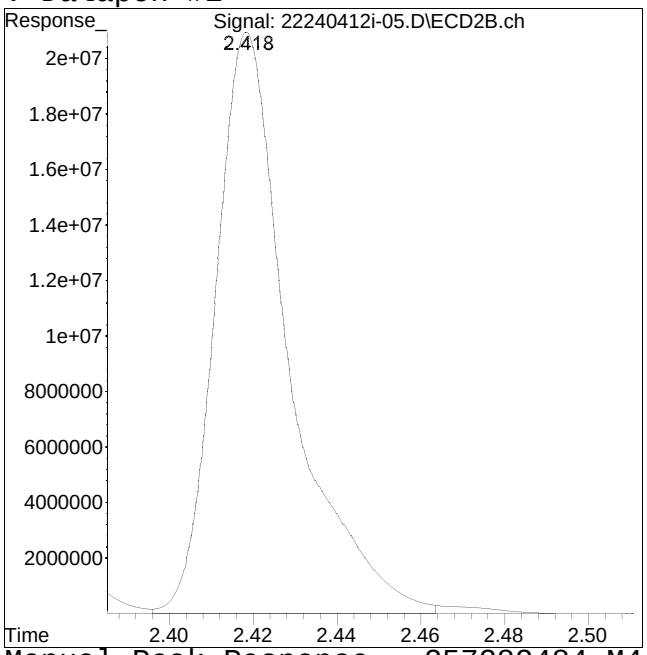
Original Peak Response = 313163809 Manual Peak Response = 271463988 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-05.D Operator : pest22:peg
Date Inj'd : 4/12/2024 7:31 am Instrument : Pest22
Sample : il4herb,42e,,pp11461 L0.5/Quant Date : 4/12/2024 8:36 am

Compound #15: Dalapon #2



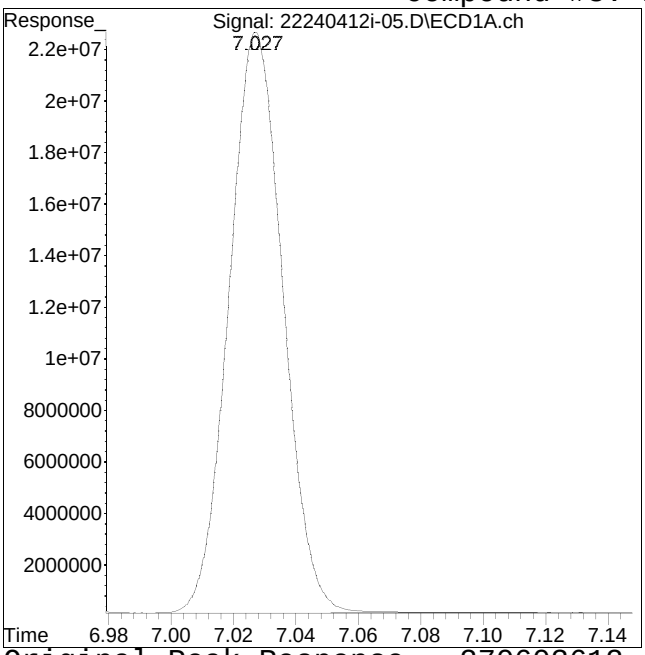


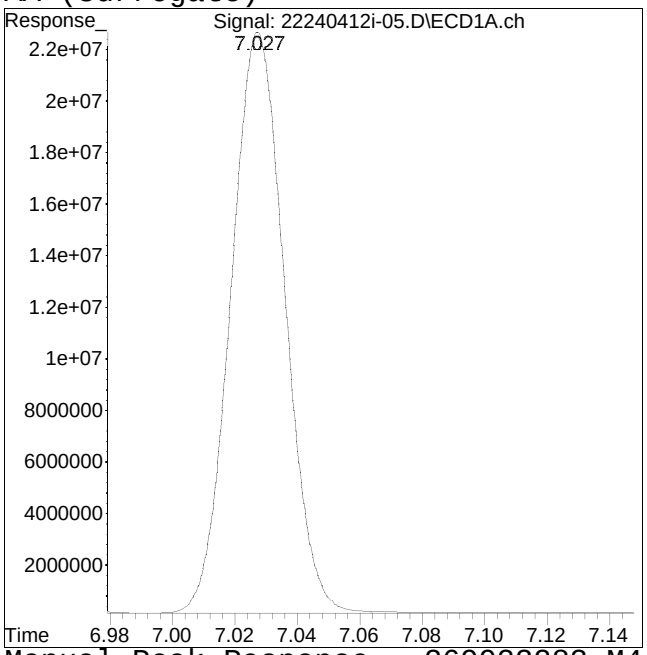
Original Peak Response = 260014909 Manual Peak Response = 257282484 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-05.D Operator : pest22:peg
Date Inj'd : 4/12/2024 7:31 am Instrument : Pest22
Sample : il4herb,42e,,pp11461 L0.5/Quant Date : 4/12/2024 8:36 am

Compound #3: DCAA (surrogate)



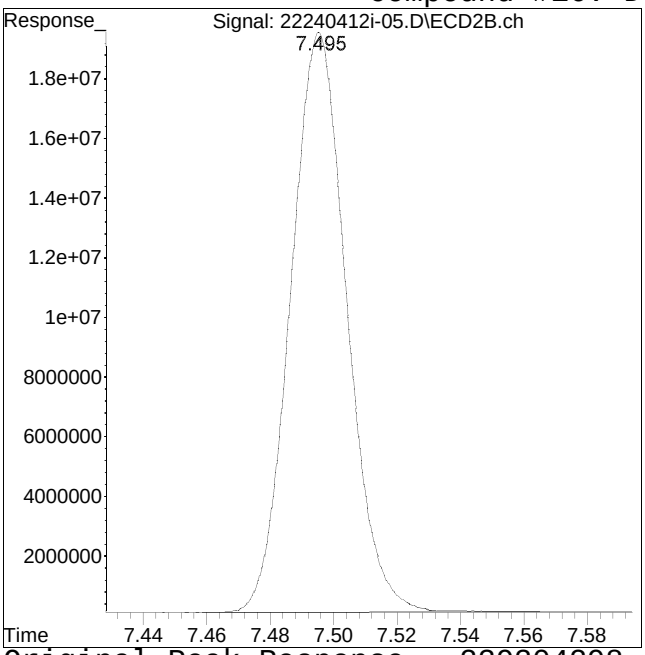


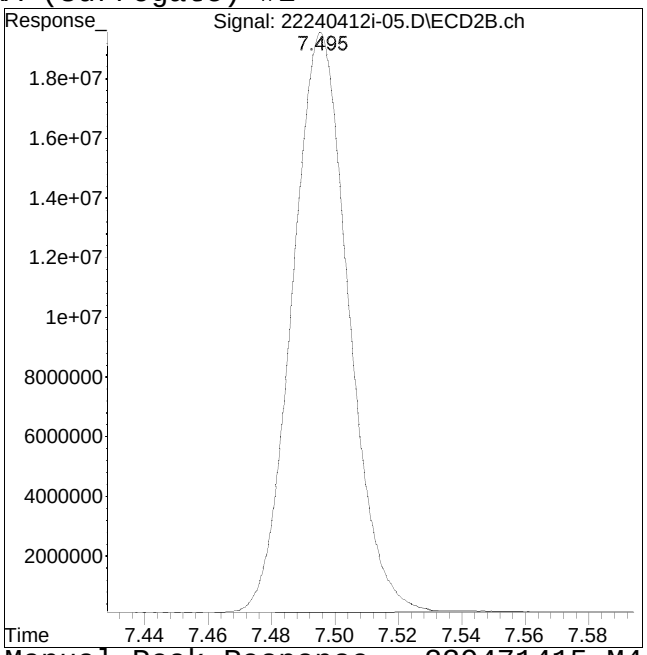
Original Peak Response = 270603612 Manual Peak Response = 269923283 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-05.D Operator : pest22:peg
Date Inj'd : 4/12/2024 7:31 am Instrument : Pest22
Sample : il4herb,42e,,pp11461 L0.5/Quant Date : 4/12/2024 8:36 am

Compound #16: DCAA (surrogate) #2



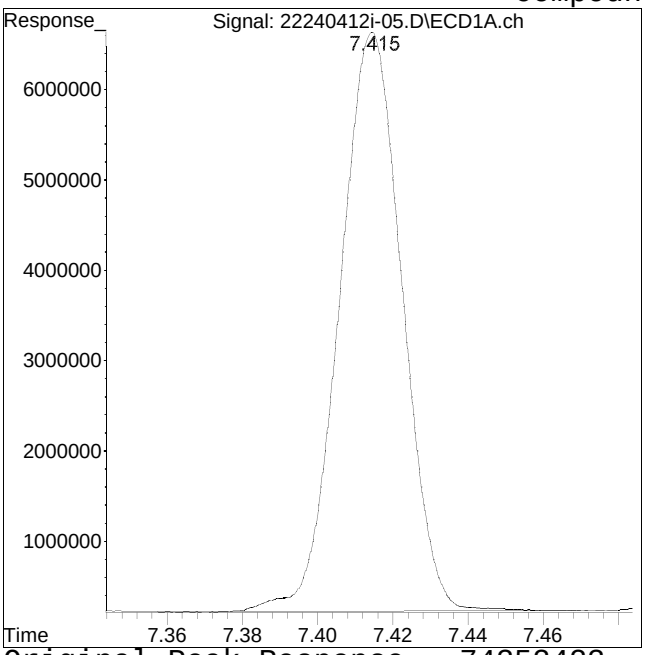


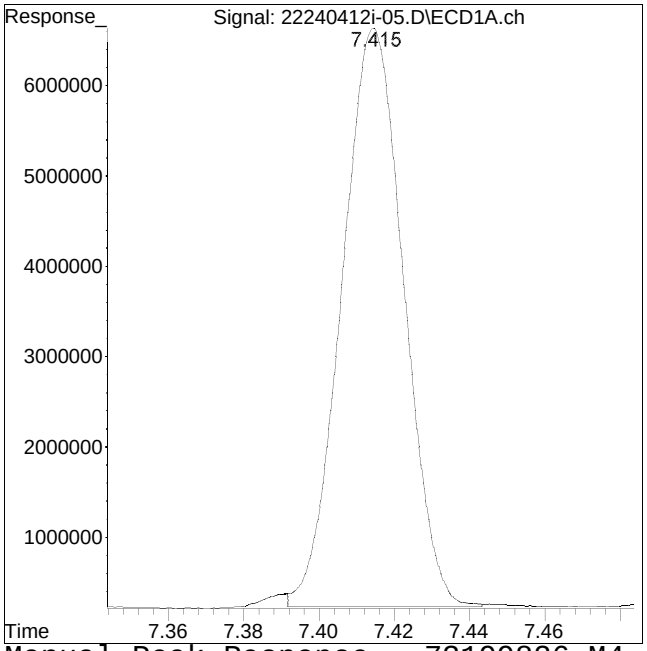
Original Peak Response = 239304298 Manual Peak Response = 239471415 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-05.D Operator : pest22:peg
Date Inj'd : 4/12/2024 7:31 am Instrument : Pest22
Sample : il4herb,42e,,pp11461 L0.5/Quant Date : 4/12/2024 8:36 am

Compound #5: MCPP



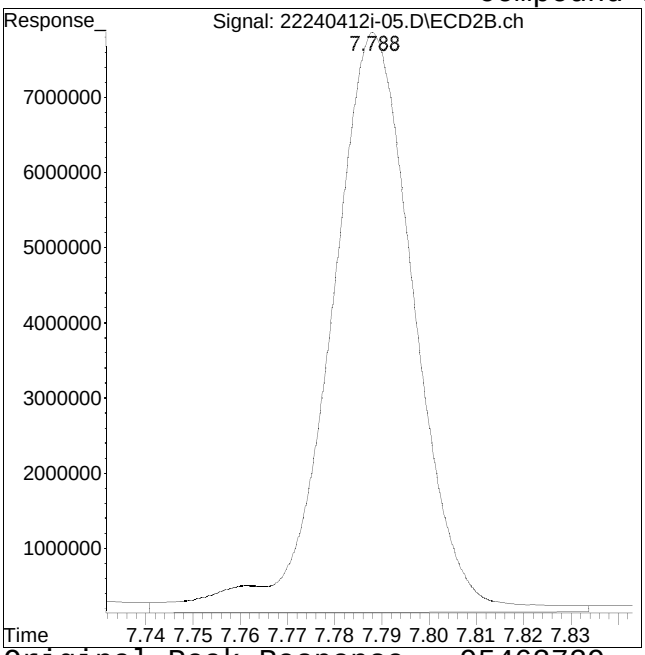


Original Peak Response = 74352423 Manual Peak Response = 73199826 M4
M4 = Poor automated baseline construction.

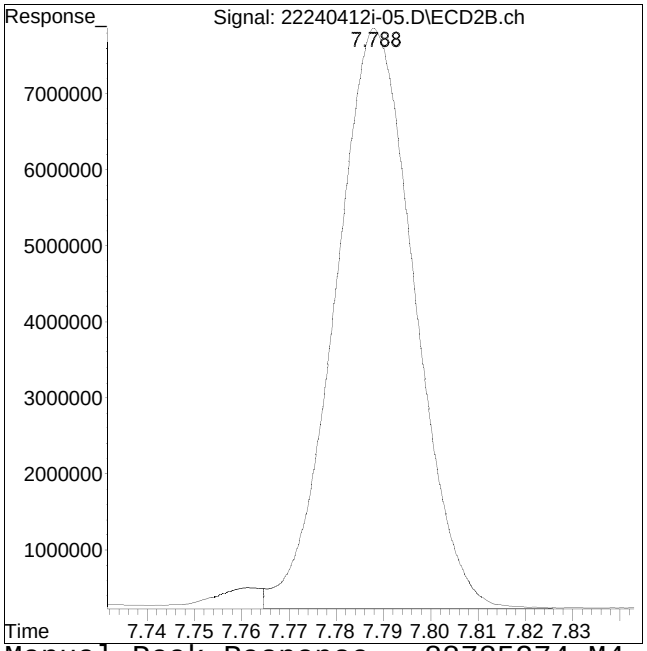
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-05.D Operator : pest22:peg
Date Inj'd : 4/12/2024 7:31 am Instrument : Pest22
Sample : il4herb,42e,,pp11461 L0.5/Quant Date : 4/12/2024 8:36 am

Compound #18: MCPP #2



Original Peak Response = 95463739



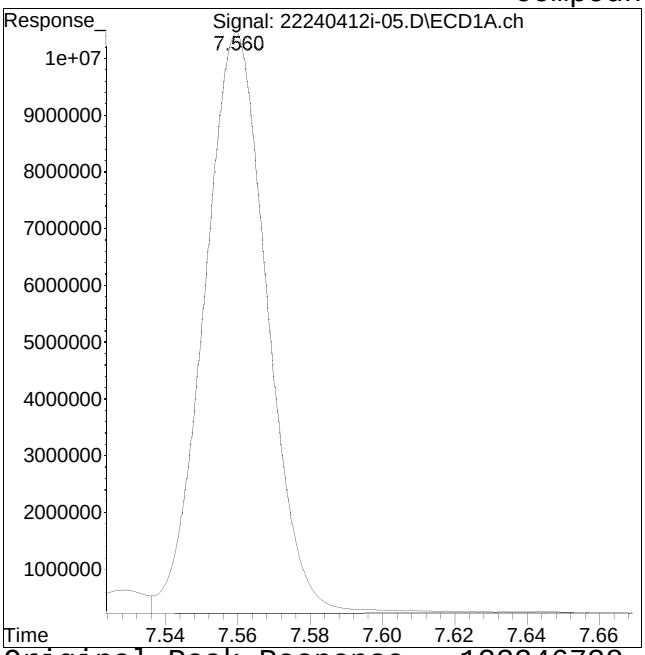
Manual Peak Response = 88785274 M4

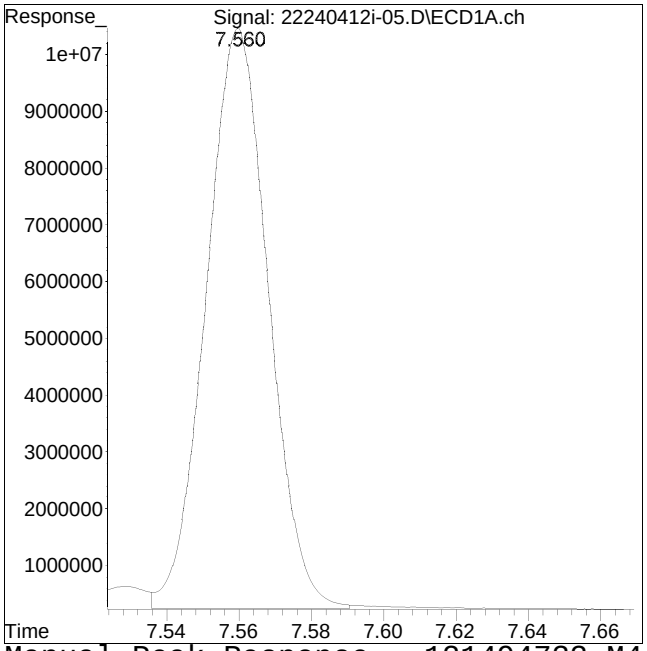
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-05.D Operator : pest22:peg
Date Inj'd : 4/12/2024 7:31 am Instrument : Pest22
Sample : il4herb,42e,,pp11461 L0.5/Quant Date : 4/12/2024 8:36 am

Compound #6: MCPA



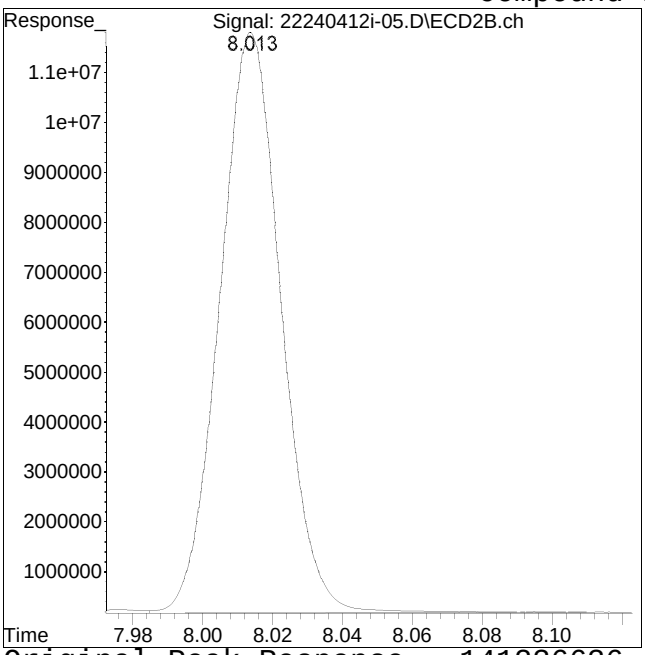


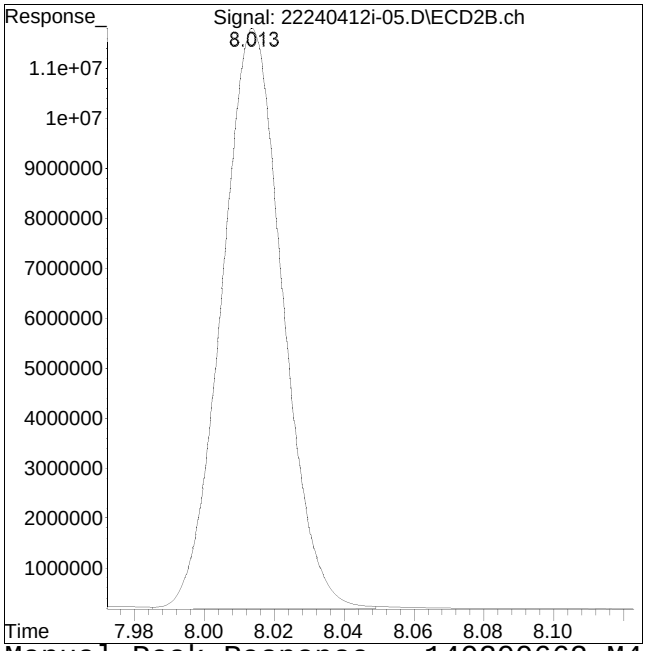
Original Peak Response = 123346738 Manual Peak Response = 121494733 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-05.D Operator : pest22:peg
Date Inj'd : 4/12/2024 7:31 am Instrument : Pest22
Sample : il4herb,42e,,pp11461 L0.5/Quant Date : 4/12/2024 8:36 am

Compound #19: MCPA #2



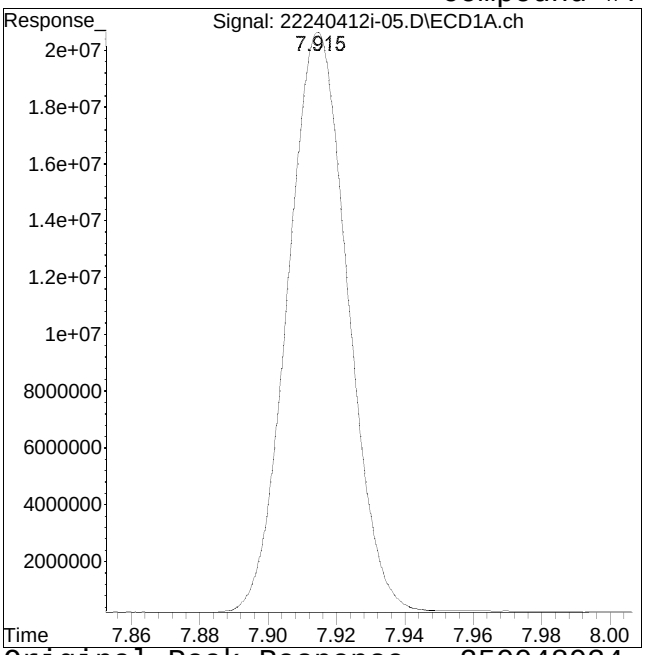


Original Peak Response = 141236636 Manual Peak Response = 140200662 M4
M4 = Poor automated baseline construction.

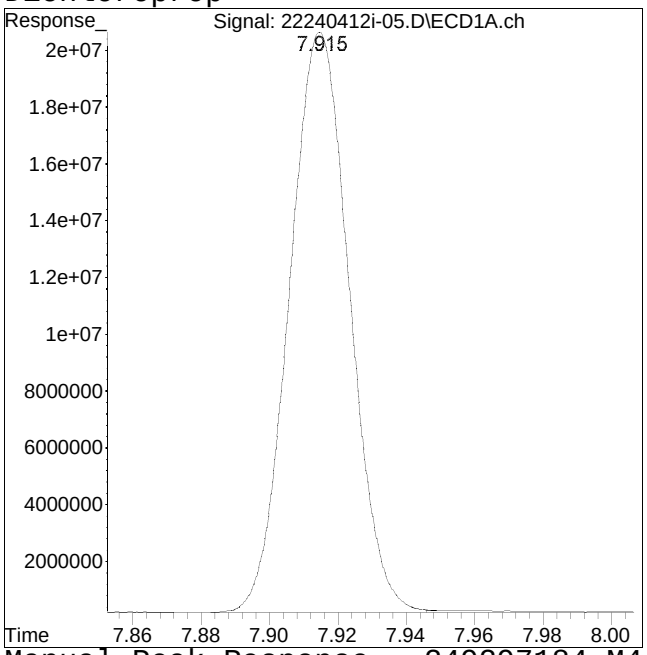
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-05.D Operator : pest22:peg
Date Inj'd : 4/12/2024 7:31 am Instrument : Pest22
Sample : il4herb,42e,,pp11461 L0.5/Quant Date : 4/12/2024 8:36 am

Compound #7: Dichloroprop



Original Peak Response = 250048934



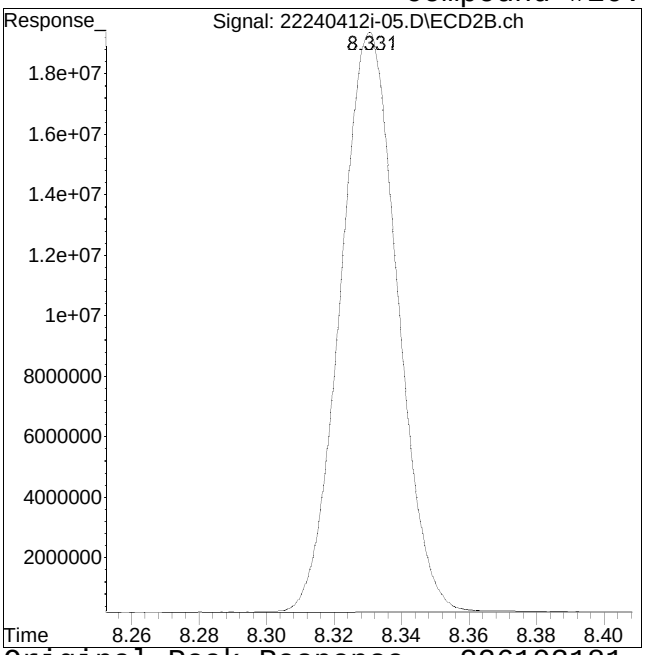
Manual Peak Response = 249297184 M4

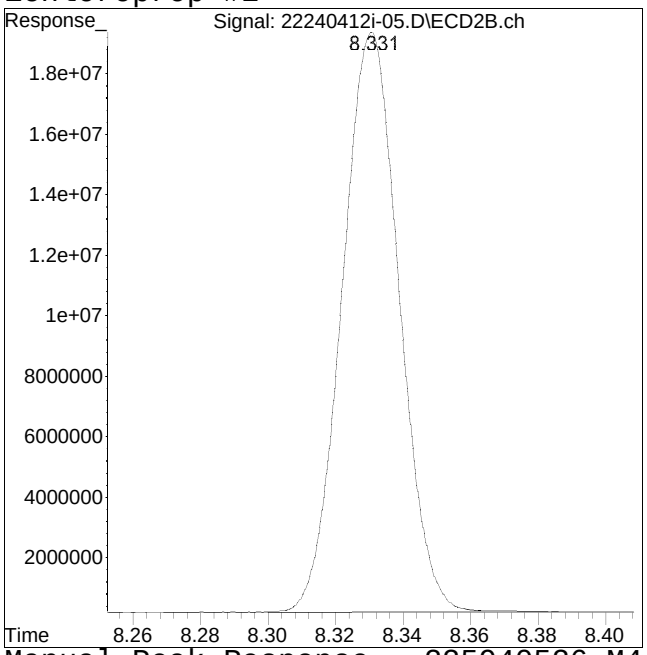
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-05.D Operator : pest22:peg
Date Inj'd : 4/12/2024 7:31 am Instrument : Pest22
Sample : il4herb,42e,,pp11461 L0.5/Quant Date : 4/12/2024 8:36 am

Compound #20: Dichloroprop #2



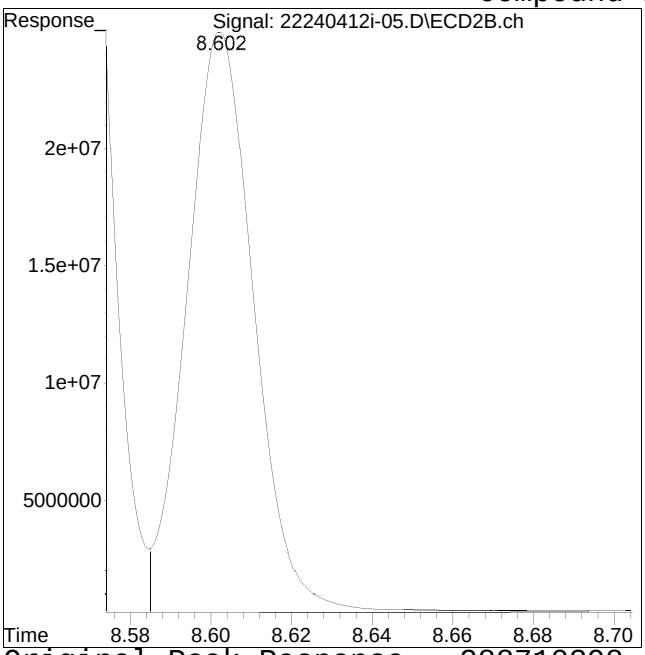


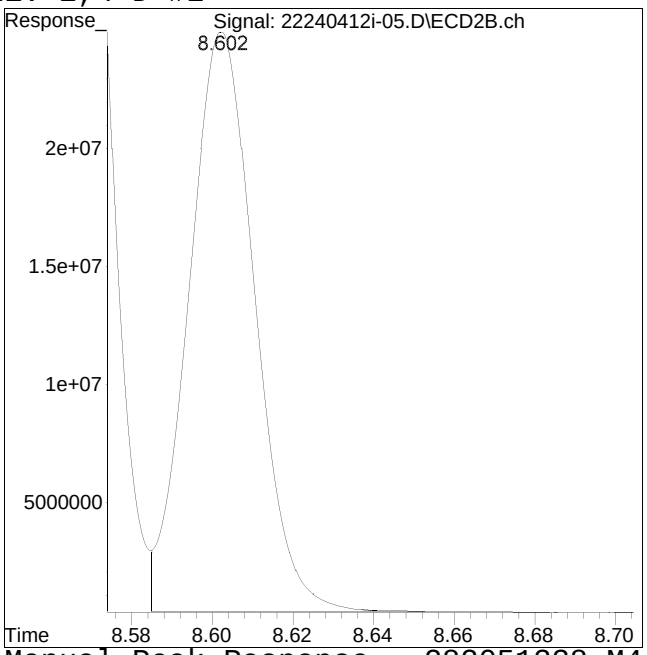
Original Peak Response = 226103181 Manual Peak Response = 225940526 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-05.D Operator : pest22:peg
Date Inj'd : 4/12/2024 7:31 am Instrument : Pest22
Sample : il4herb,42e,,pp11461 L0.5/Quant Date : 4/12/2024 8:36 am

Compound #21: 2,4-D #2



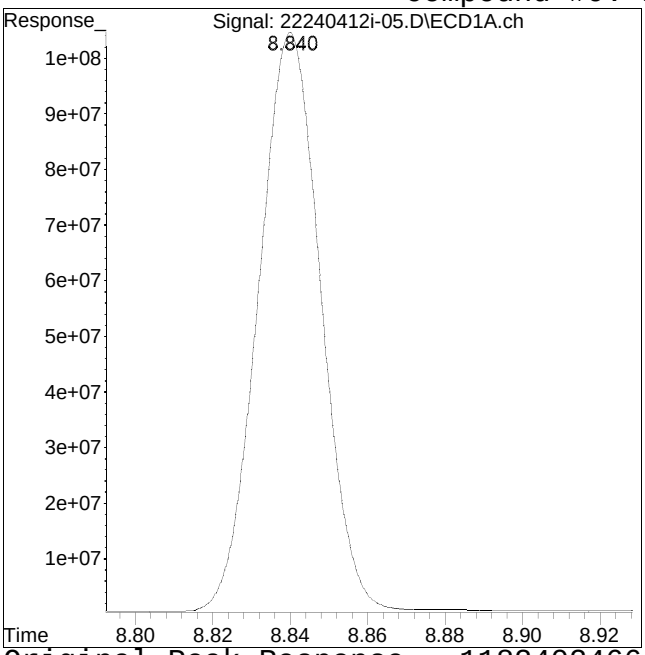


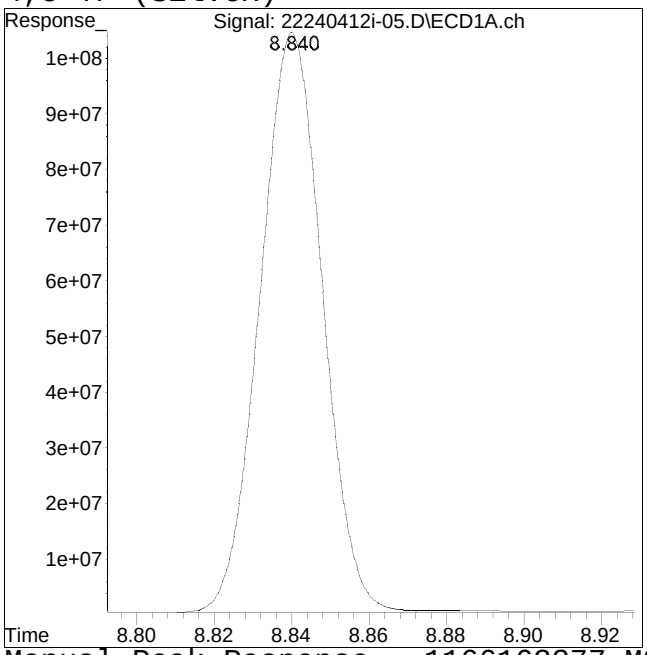
Original Peak Response = 288710398 Manual Peak Response = 282051338 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-05.D Operator : pest22:peg
Date Inj'd : 4/12/2024 7:31 am Instrument : Pest22
Sample : il4herb,42e,,pp11461 L0.5/Quant Date : 4/12/2024 8:36 am

Compound #9: 2,4,5-TP (Silvex)



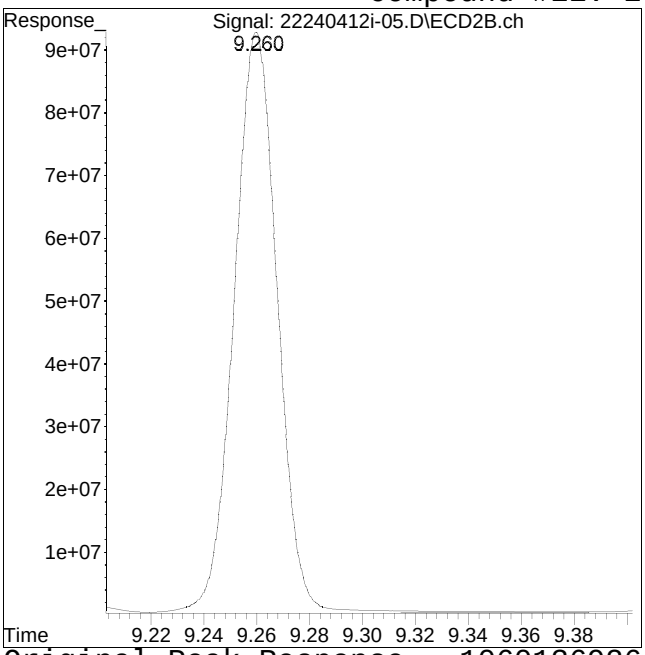


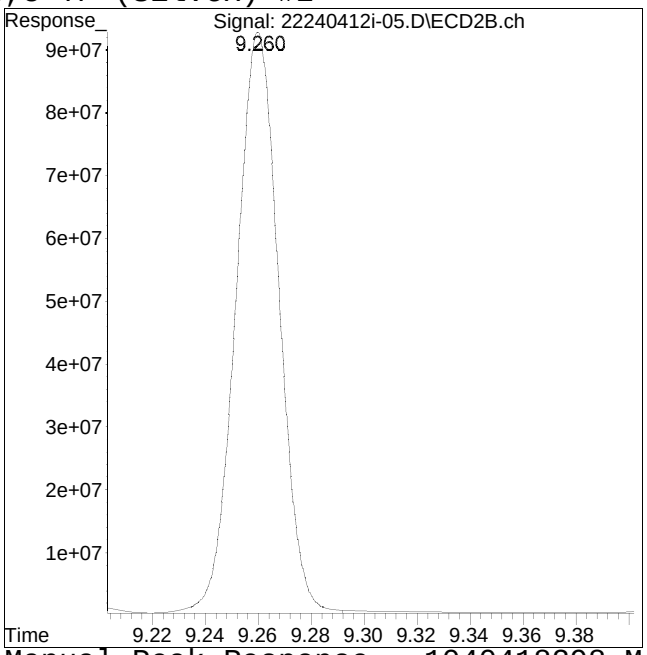
Original Peak Response = 1182402466 Manual Peak Response = 1166163377 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-05.D Operator : pest22:peg
Date Inj'd : 4/12/2024 7:31 am Instrument : Pest22
Sample : il4herb,42e,,pp11461 L0.5/Quant Date : 4/12/2024 8:36 am

Compound #22: 2,4,5-TP (Silvex) #2



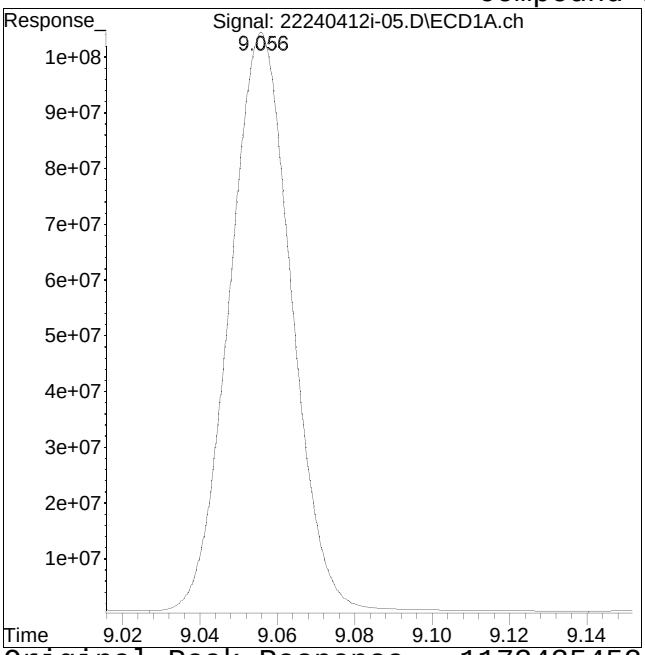


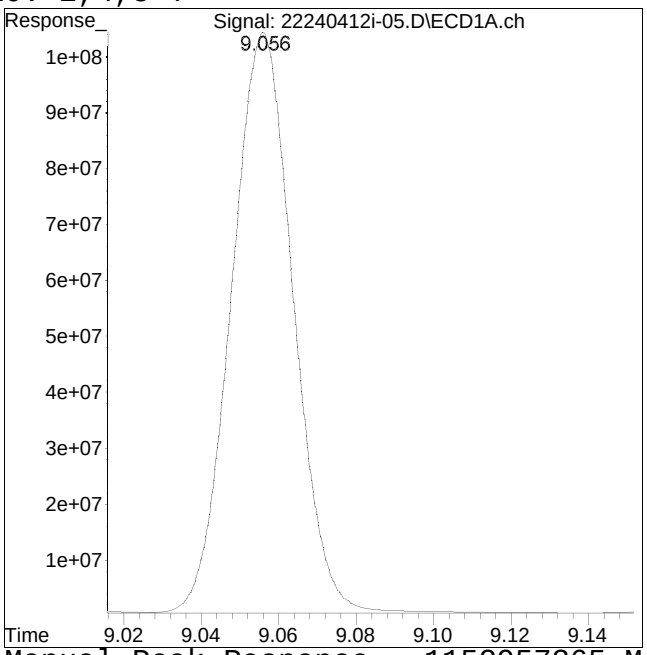
Original Peak Response = 1060136926 Manual Peak Response = 1040418298 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-05.D Operator : pest22:peg
Date Inj'd : 4/12/2024 7:31 am Instrument : Pest22
Sample : il4herb,42e,,pp11461 L0.5/Quant Date : 4/12/2024 8:36 am

Compound #10: 2,4,5-T



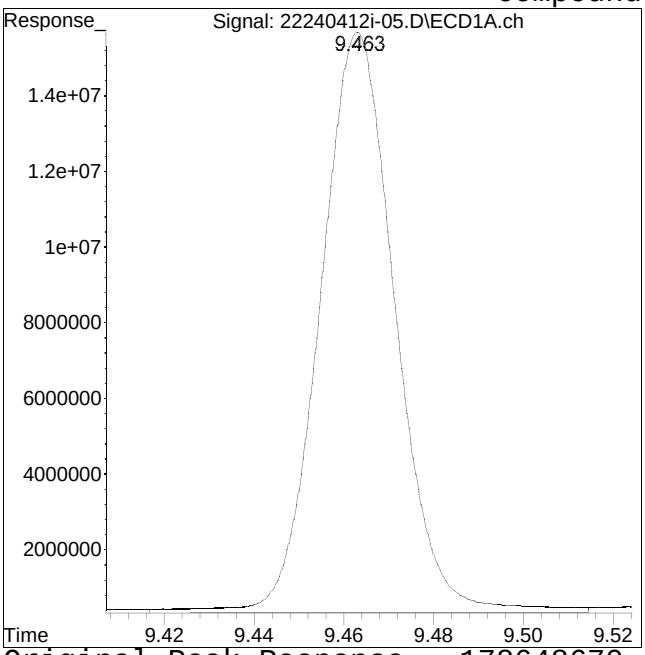


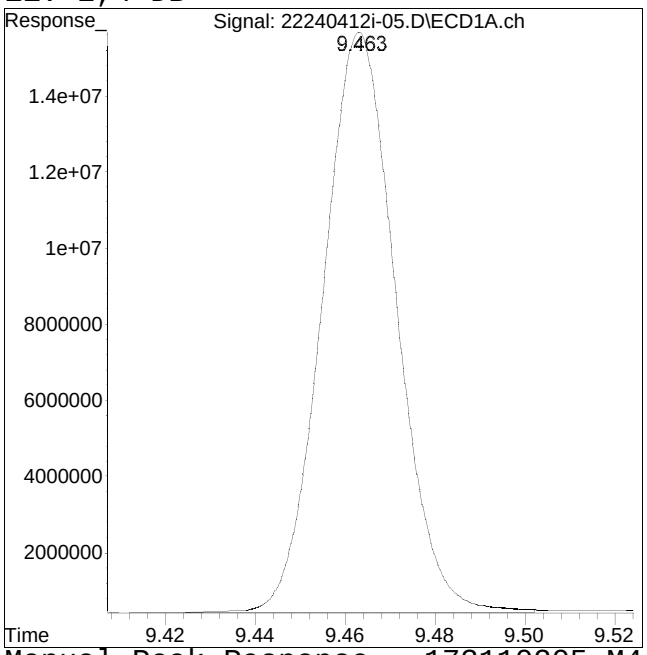
Original Peak Response = 1173435452 Manual Peak Response = 1152957365 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-05.D Operator : pest22:peg
Date Inj'd : 4/12/2024 7:31 am Instrument : Pest22
Sample : il4herb,42e,,pp11461 L0.5/Quant Date : 4/12/2024 8:36 am

Compound #11: 2,4-DB



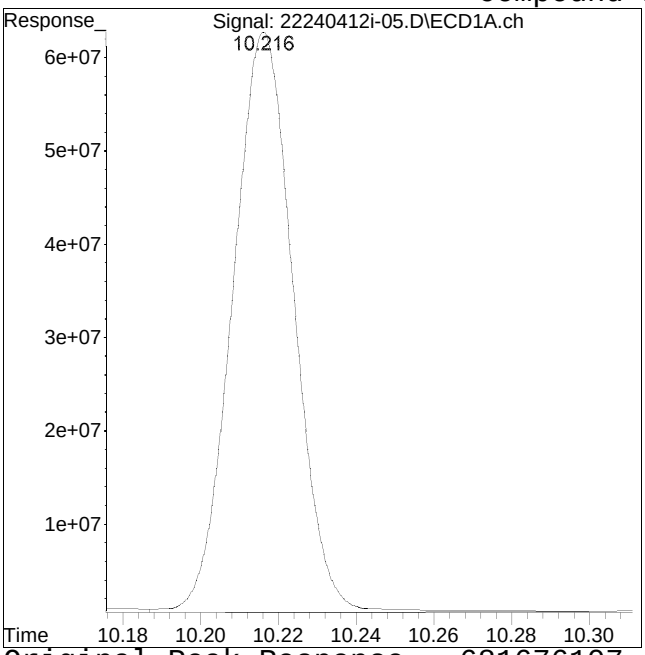


Original Peak Response = 178648670 Manual Peak Response = 173110205 M4
M4 = Poor automated baseline construction.

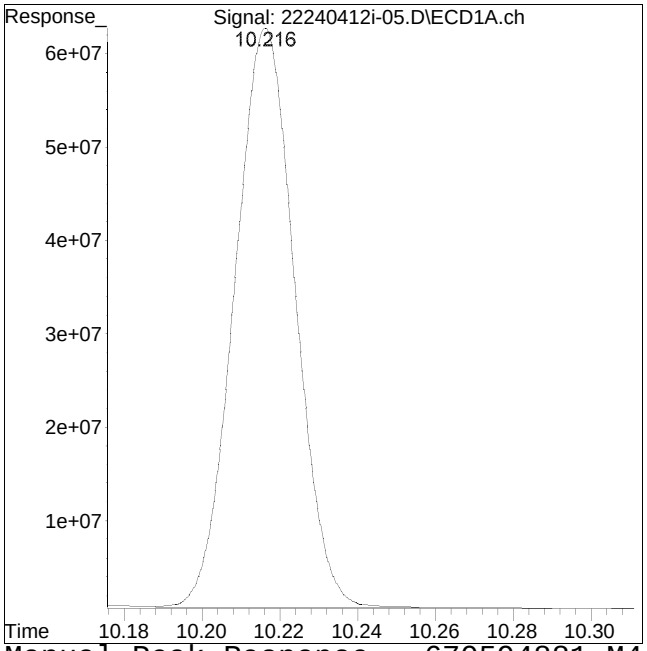
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-05.D Operator : pest22:peg
Date Inj'd : 4/12/2024 7:31 am Instrument : Pest22
Sample : il4herb,42e,,pp11461 L0.5/Quant Date : 4/12/2024 8:36 am

Compound #12: Dinoseb



Original Peak Response = 681676107

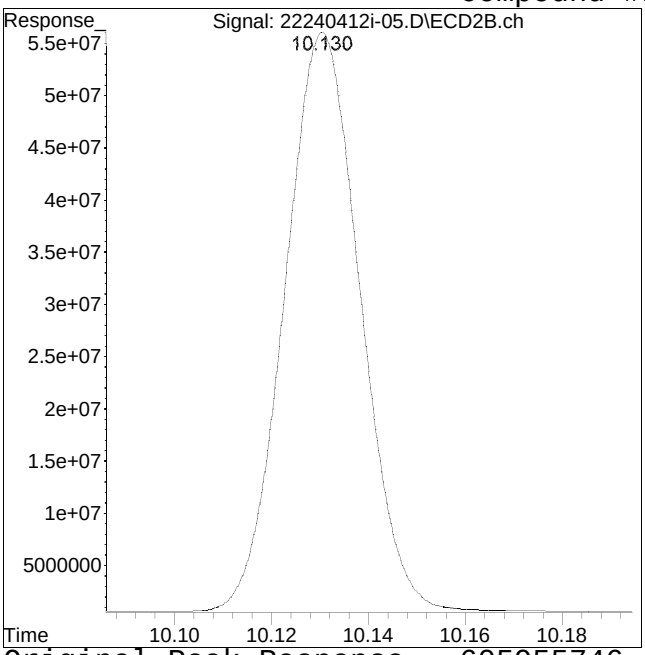


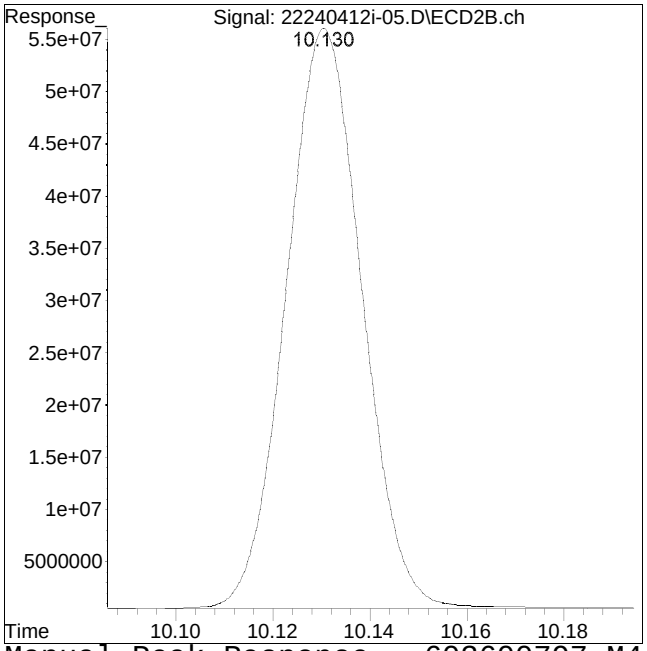
Manual Peak Response = 670594881 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-05.D Operator : pest22:peg
Date Inj'd : 4/12/2024 7:31 am Instrument : Pest22
Sample : il4herb,42e,,pp11461 L0.5/Quant Date : 4/12/2024 8:36 am

Compound #25: Dinoseb #2





Original Peak Response = 605955746 Manual Peak Response = 603600797 M4
M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest22\2024\240412ical\
Data File : 22240412i-06.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 12 Apr 2024 07:49 am
Operator : pest22:peg
Sample : il5herb,42e,,pp11460 L1/100 (Sig #1); ilherb42e,,pp11460 L1/100 (Sig #2)
Misc : wg1907956, (Sig #1); ical (Sig #2)
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Apr 12 08:41:15 2024
Quant Method : I:\PEST\Pest22\2024\240412ical\Herb22_2024_04_12_mgL_ICAL.m
Quant Title : herb
QLast Update : Fri Apr 12 08:40:22 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

		Compound	RT#1	RT#2	Resp#1	Resp#2	mg/l	mg/l
		Internal Standards						
1)	i	4,4'-DBOB	8.572	8.564	717.1E6	655.1E6	0.250M4	0.250
		System Monitoring Compounds						
3)	s	DCAA (surrog	7.027	7.494	487.7E6	437.6E6	0.822M4	0.836M4
		Spiked Amount	0.500	Range 30 - 150		Recovery =	164.40%#	167.20%#
		Target Compounds						
2)	t	Dalapon	2.421	2.418	537.5E6	451.2E6	0.887	0.837M4
4)	t	Dicamba	7.212	7.676	1383.9E6	1339.4E6	0.815M4	0.866M4
5)	t	MCPP	7.414	7.788	143.4E6	169.9E6	92.464M4	89.596M3
6)	t	MCPA	7.560	8.014	224.2E6	257.1E6	81.702M4	82.003M4
7)	t	Dichloroprop	7.913	8.329	442.2E6	413.6E6	0.795M4	0.835M4
8)	t	2,4-D	8.121	8.601	567.4E6	527.6E6	0.817M4	0.866M4
9)	t	2,4,5-TP (Si	8.839	9.259	2103.9E6	1931.5E6	0.830M3	0.868M4
10)	t	2,4,5-T	9.055	9.545	2091.7E6	1898.4E6	0.845M4	0.881M4
11)	t	2,4-DB	9.462	9.906	312.1E6	320.4E6	0.825M4	0.885M4
12)	t	Dinoseb	10.216	10.130	1217.6E6	1131.0E6	0.846M4	0.887M4

SemiQuant Compounds - Not Calibrated on this Instrument

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest22\2024\240412ical\
Data File : 22240412i-06.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 12 Apr 2024 07:49 am
Operator : pest22:peg
Sample : il5herb,42e,,pp11460 L1/100 (Sig #1); ilherb42e,,pp11460 L1/100 (Sig #2)
Misc : wg1907956, (Sig #1); ical (Sig #2)
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Apr 12 08:41:15 2024
Quant Method : I:\PEST\Pest22\2024\240412ical\Herb22_2024_04_12_mgL_ICAL.m
Quant Title : herb
QLast Update : Fri Apr 12 08:40:22 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	mg/l	mg/l

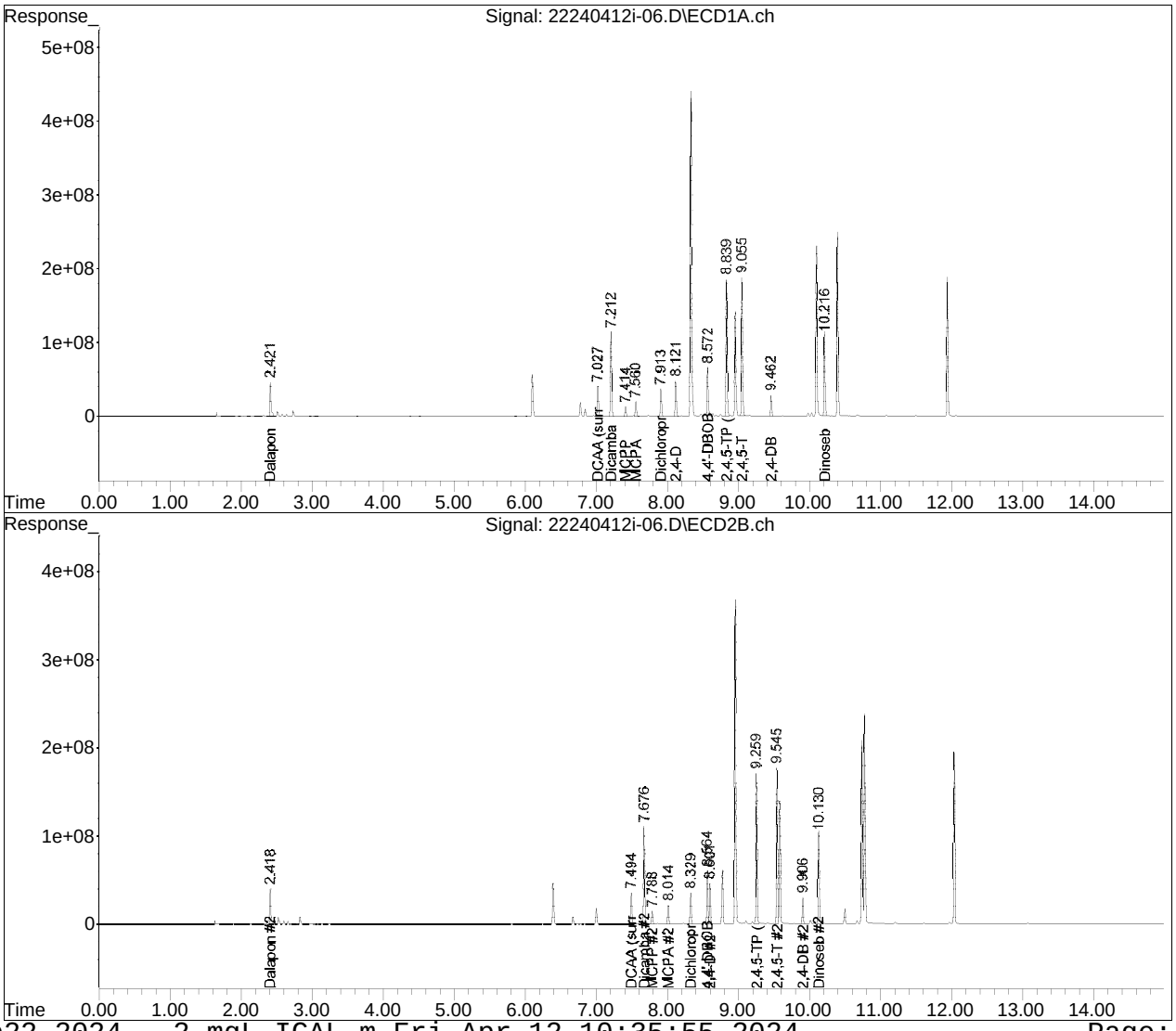
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest22\2024\240412ical\
Data File : 22240412i-06.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 12 Apr 2024 07:49 am
Operator : pest22:peg
Sample : il5herb,42e,,pp11460 L1/100 (Sig #1); ilherb42e,,pp11460 L1/100 (S
Misc : wg1907956, (Sig #1); ical (Sig #2)
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Apr 12 08:41:15 2024
Quant Method : I:\PEST\Pest22\2024\240412ical\Herb22_2024_04_12_mgL_ICAL.m
Quant Title : herb
QLast Update : Fri Apr 12 08:40:22 2024
Response via : Initial Calibration
Integrator: ChemStation

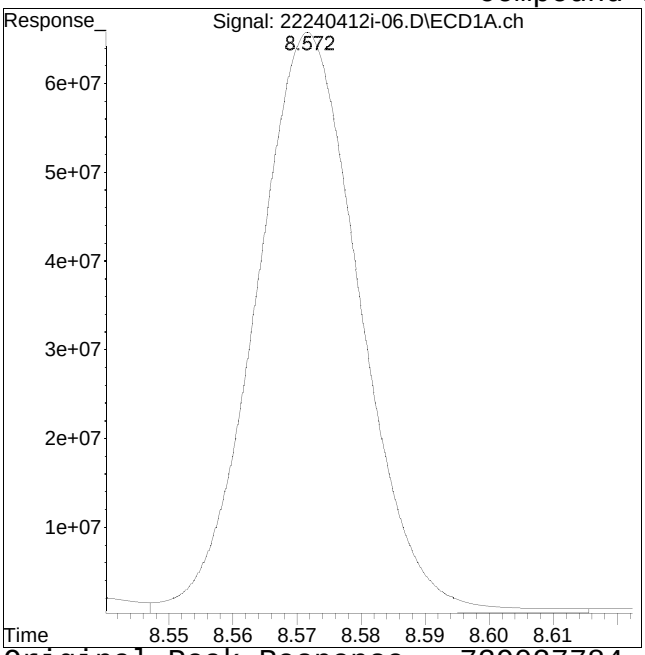
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

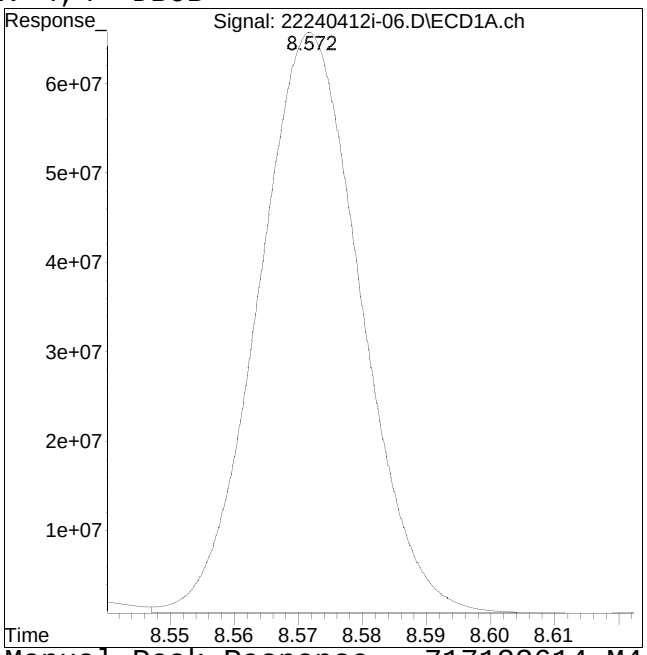


Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-06.D Operator : pest22:peg
Date Inj'd : 4/12/2024 7:49 am Instrument : Pest22
Sample : il5herb,42e,,pp11460 L1/10Quant Date : 4/12/2024 8:41 am

Compound #1: 4,4'-DBOB



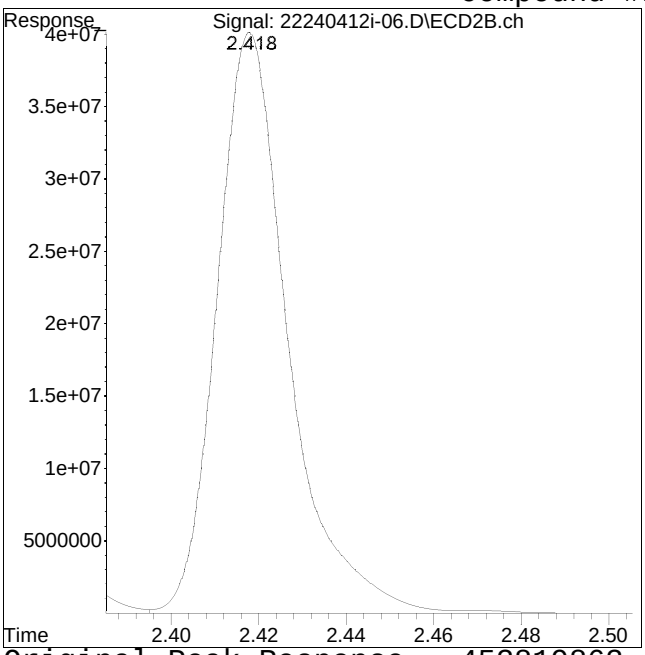


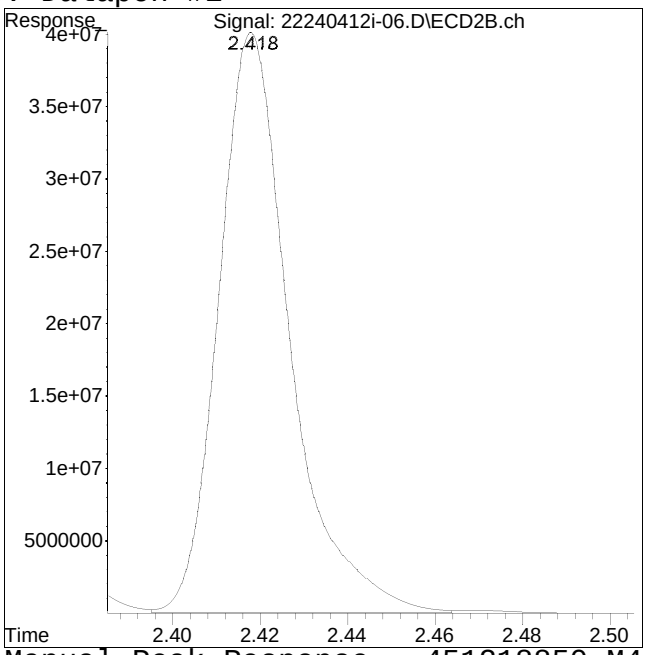
Original Peak Response = 739027784 Manual Peak Response = 717123614 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-06.D Operator : pest22:peg
Date Inj'd : 4/12/2024 7:49 am Instrument : Pest22
Sample : il5herb,42e,,pp11460 L1/10Quant Date : 4/12/2024 8:41 am

Compound #15: Dalapon #2



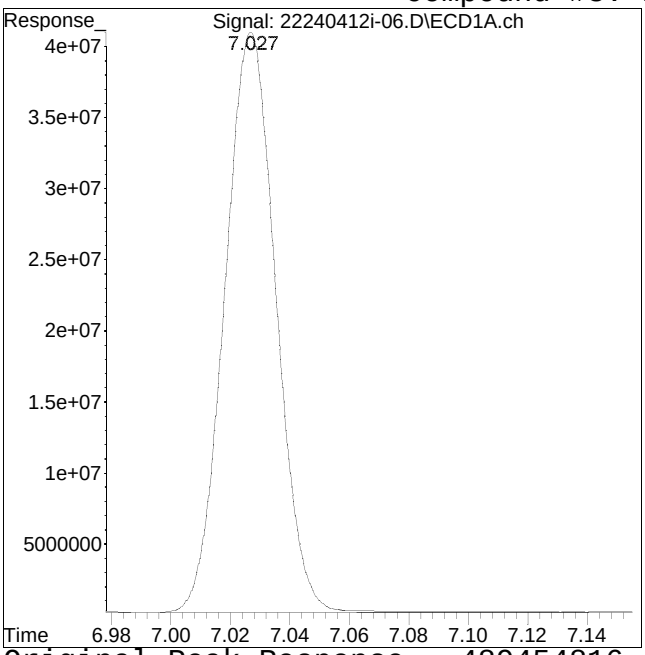


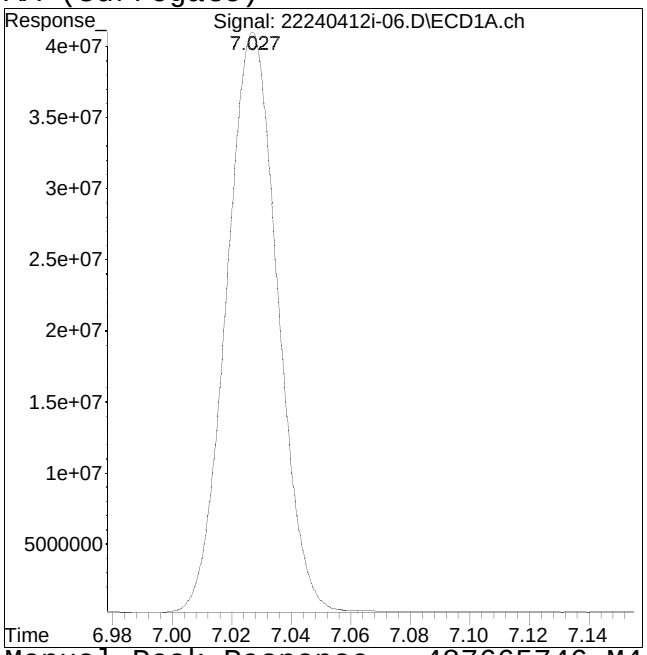
Original Peak Response = 453819863 Manual Peak Response = 451218850 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-06.D Operator : pest22:peg
Date Inj'd : 4/12/2024 7:49 am Instrument : Pest22
Sample : il5herb,42e,,pp11460 L1/10Quant Date : 4/12/2024 8:41 am

Compound #3: DCAA (surrogate)



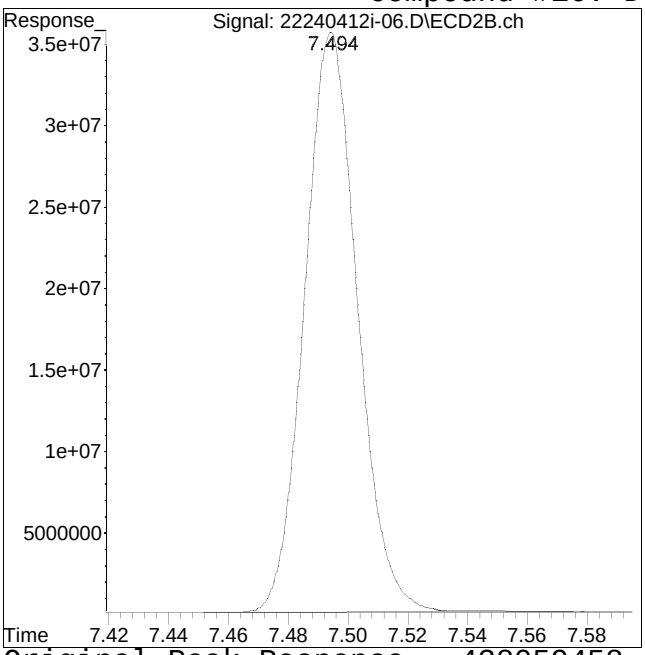


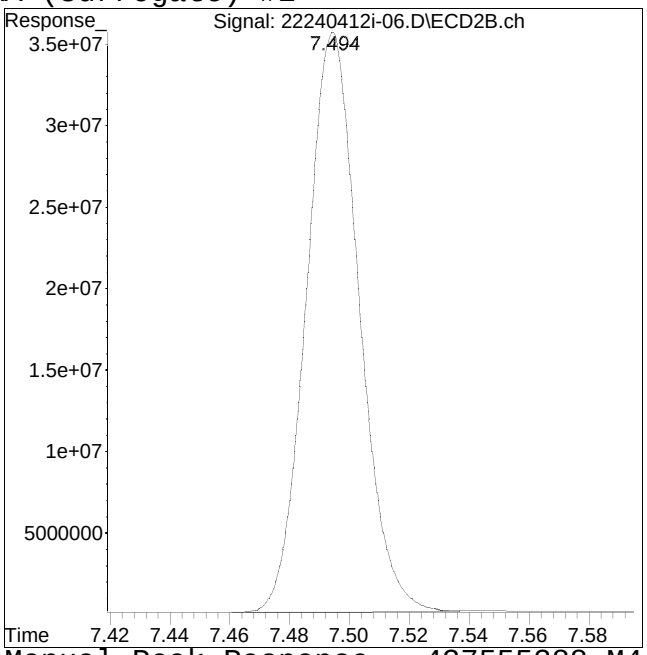
Original Peak Response = 489454816 Manual Peak Response = 487665746 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-06.D Operator : pest22:peg
Date Inj'd : 4/12/2024 7:49 am Instrument : Pest22
Sample : il5herb,42e,,pp11460 L1/10Quant Date : 4/12/2024 8:41 am

Compound #16: DCAA (surrogate) #2



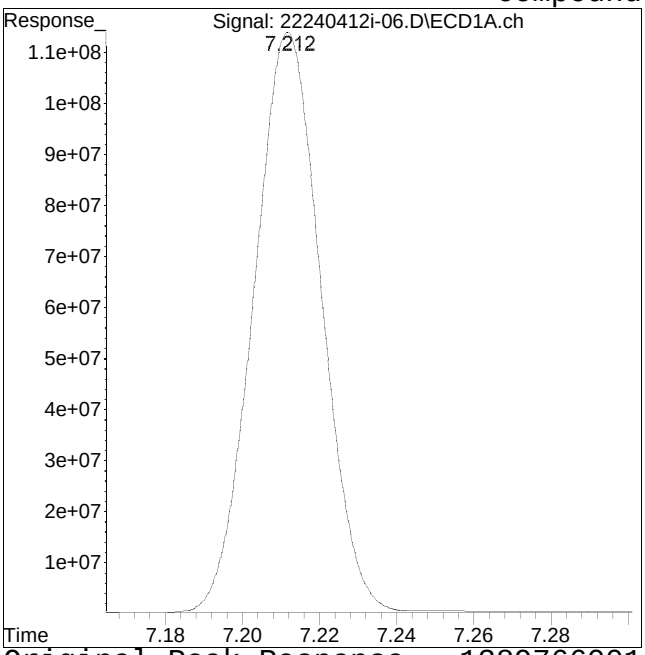


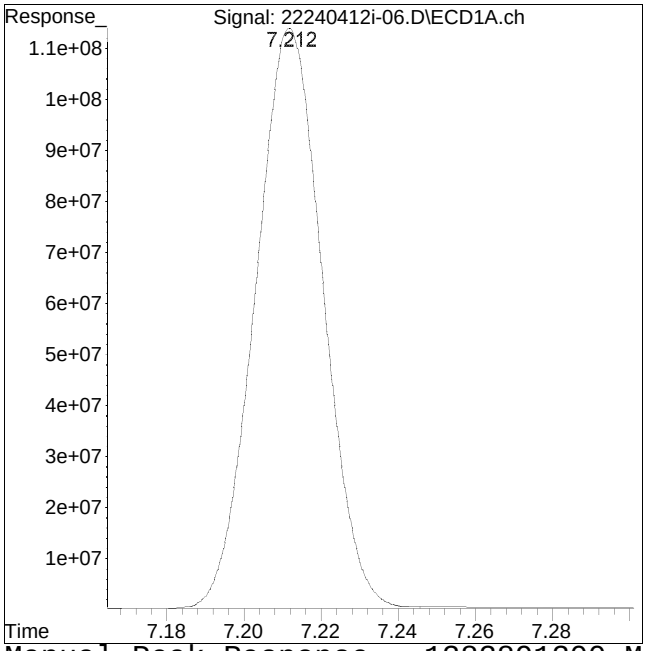
Original Peak Response = 438059458 Manual Peak Response = 437555388 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-06.D Operator : pest22:peg
Date Inj'd : 4/12/2024 7:49 am Instrument : Pest22
Sample : il5herb,42e,,pp11460 L1/10Quant Date : 4/12/2024 8:41 am

Compound #4: Dicamba



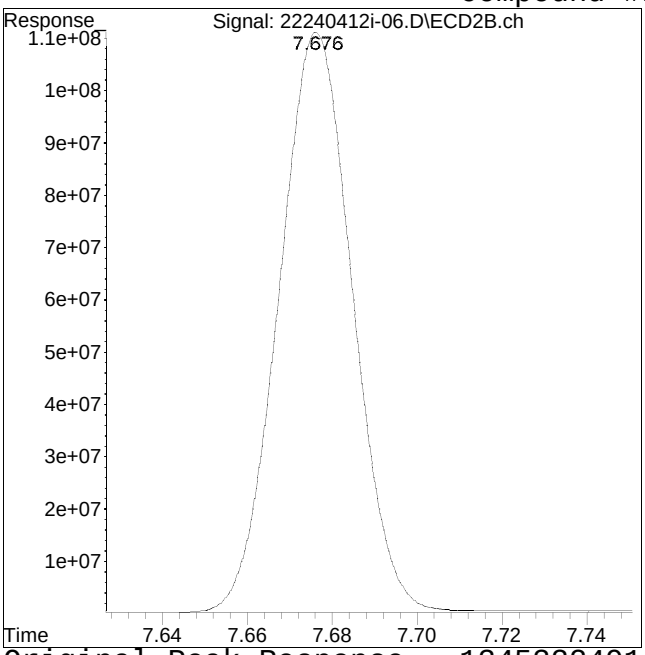


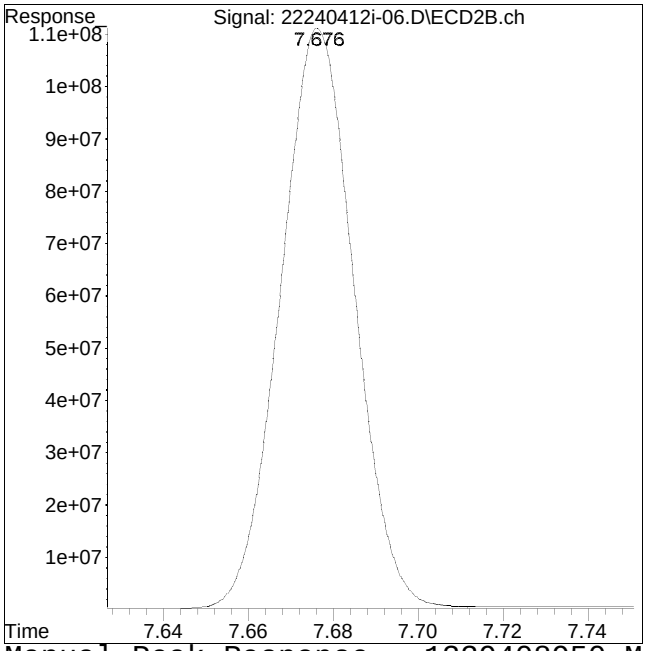
Original Peak Response = 1389766001 Manual Peak Response = 1383891300 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-06.D Operator : pest22:peg
Date Inj'd : 4/12/2024 7:49 am Instrument : Pest22
Sample : il5herb,42e,,pp11460 L1/10Quant Date : 4/12/2024 8:41 am

Compound #17: Dicamba #2



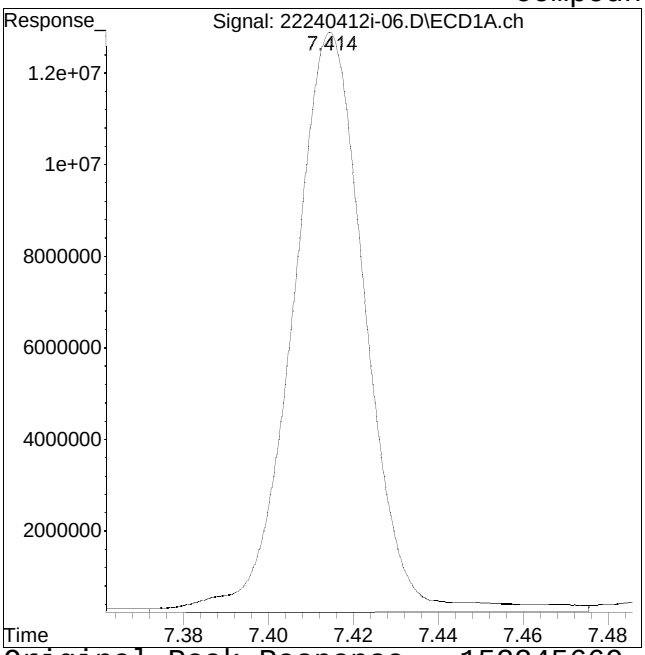


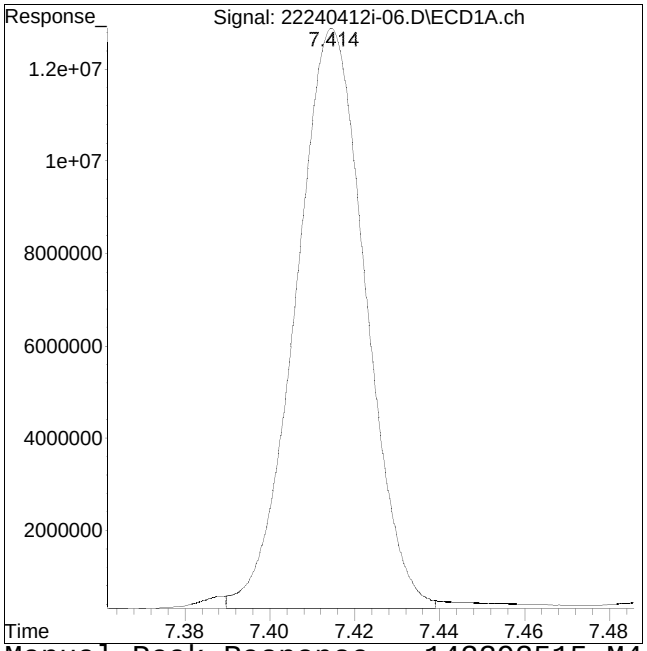
Original Peak Response = 1345322491 Manual Peak Response = 1339408950 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-06.D Operator : pest22:peg
Date Inj'd : 4/12/2024 7:49 am Instrument : Pest22
Sample : il5herb,42e,,pp11460 L1/10Quant Date : 4/12/2024 8:41 am

Compound #5: MCPP



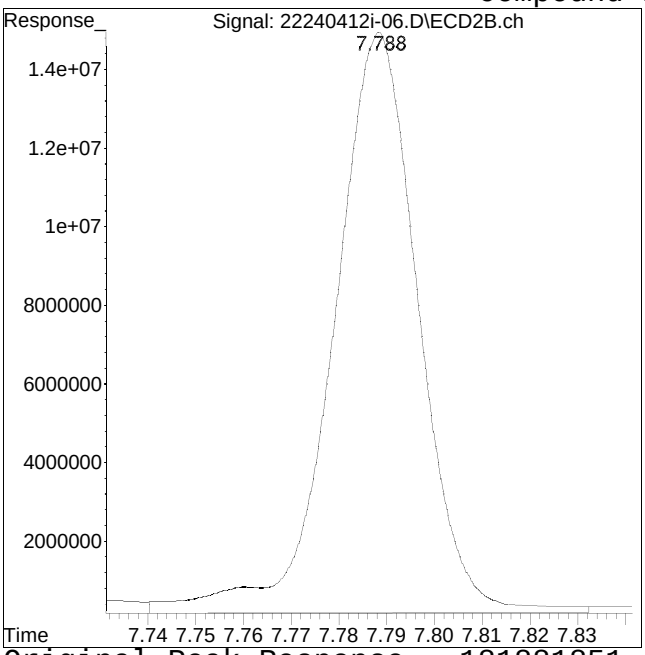


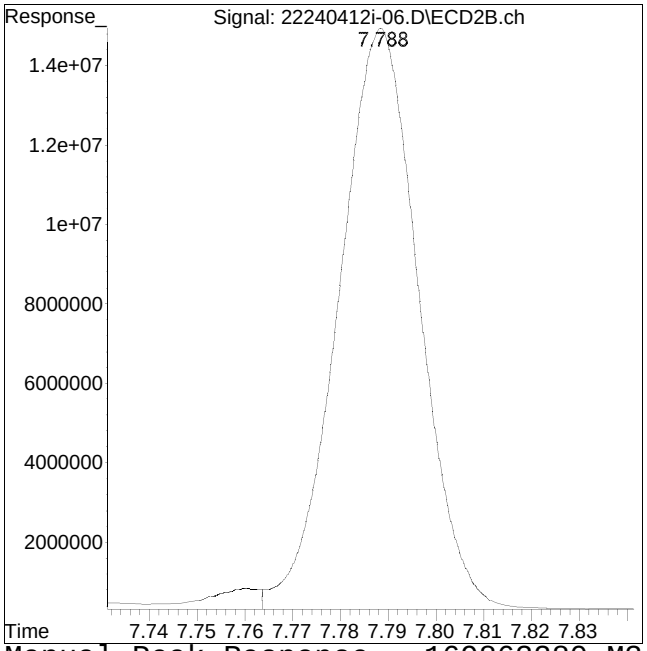
Original Peak Response = 152245669 Manual Peak Response = 143393515 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-06.D Operator : pest22:peg
Date Inj'd : 4/12/2024 7:49 am Instrument : Pest22
Sample : il5herb,42e,,pp11460 L1/10Quant Date : 4/12/2024 8:41 am

Compound #18: MCPP #2



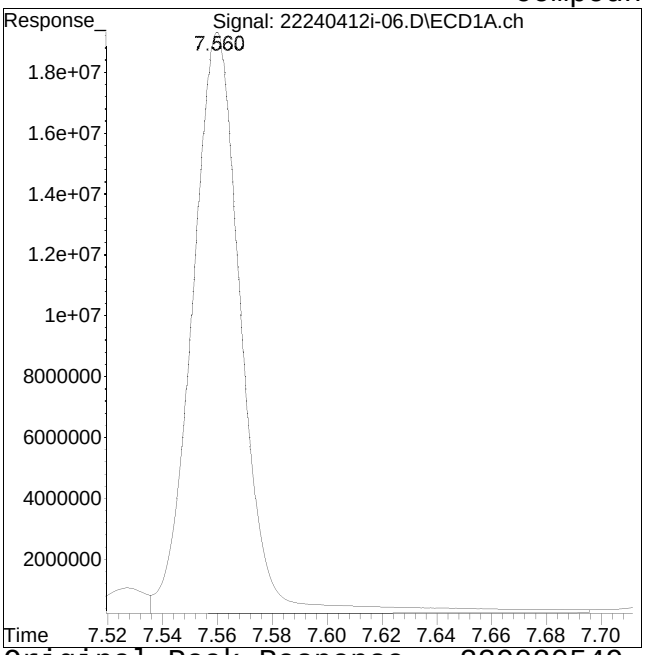


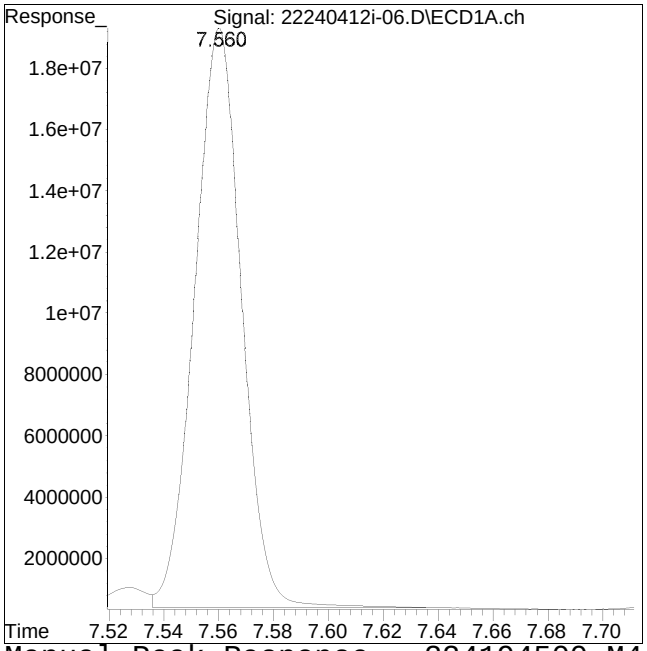
Original Peak Response = 181881851 Manual Peak Response = 169863280 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-06.D Operator : pest22:peg
Date Inj'd : 4/12/2024 7:49 am Instrument : Pest22
Sample : il5herb,42e,,pp11460 L1/10Quant Date : 4/12/2024 8:41 am

Compound #6: MCPA



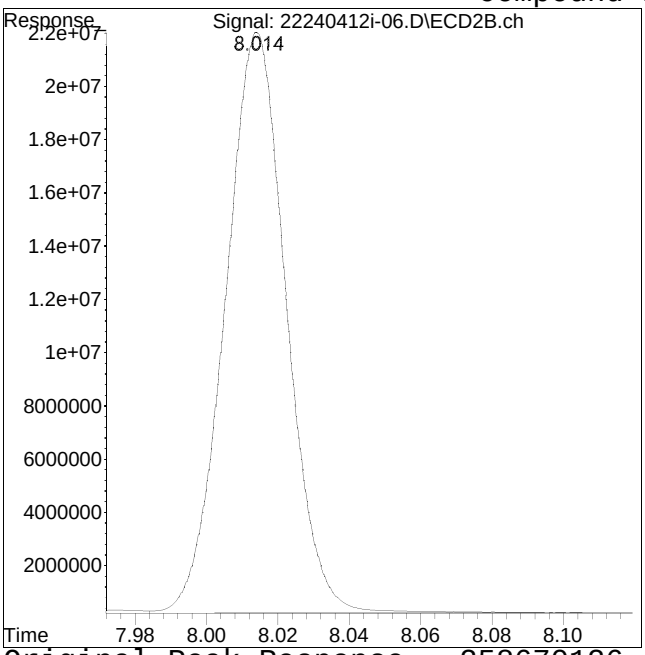


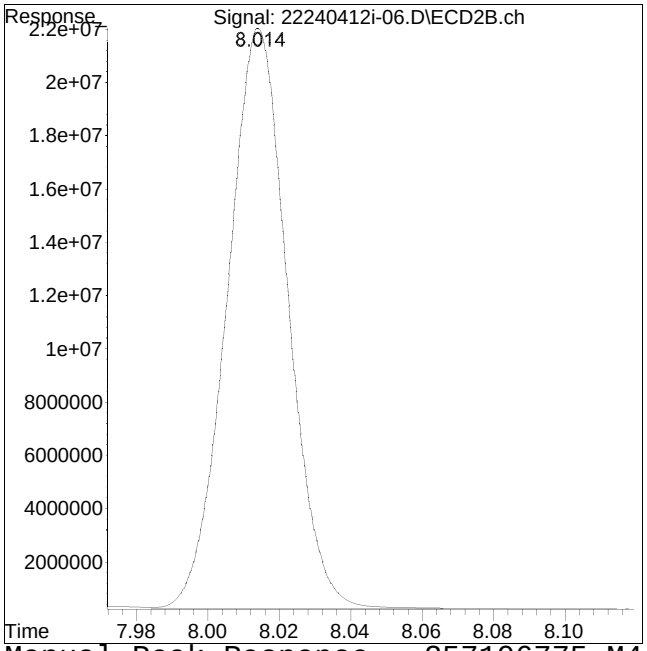
Original Peak Response = 239020549 Manual Peak Response = 224194500 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-06.D Operator : pest22:peg
Date Inj'd : 4/12/2024 7:49 am Instrument : Pest22
Sample : il5herb,42e,,pp11460 L1/10Quant Date : 4/12/2024 8:41 am

Compound #19: MCPA #2



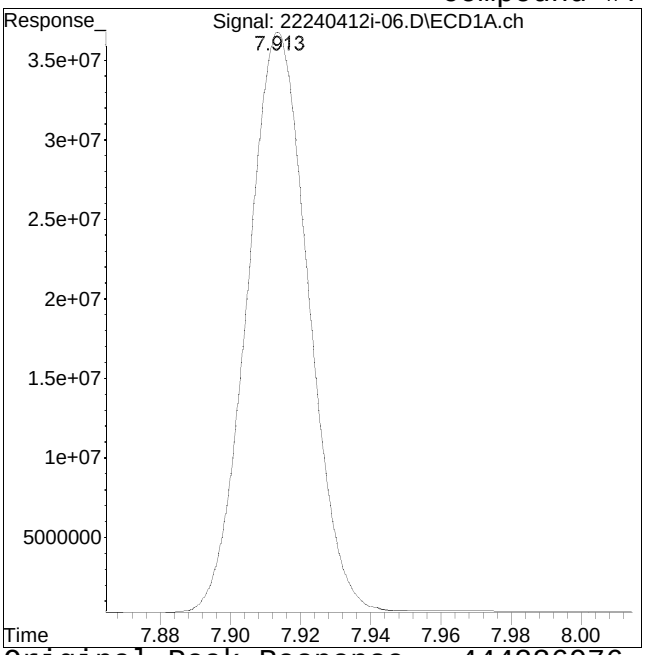


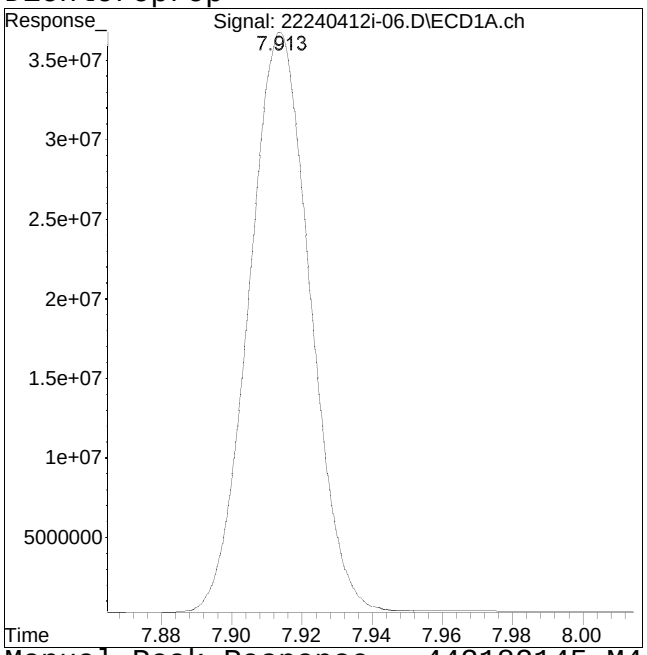
Original Peak Response = 258670126 Manual Peak Response = 257106775 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-06.D Operator : pest22:peg
Date Inj'd : 4/12/2024 7:49 am Instrument : Pest22
Sample : il5herb,42e,,pp11460 L1/10Quant Date : 4/12/2024 8:41 am

Compound #7: Dichloroprop



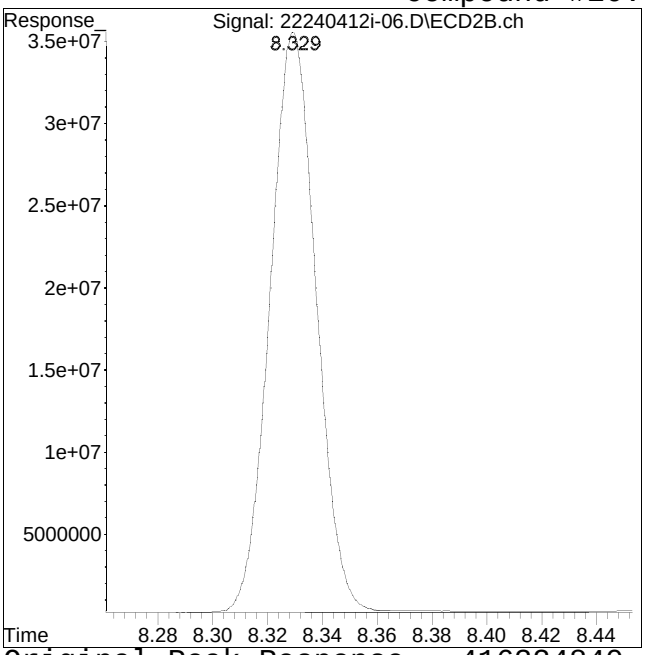


Original Peak Response = 444236976 Manual Peak Response = 442182145 M4
M4 = Poor automated baseline construction.

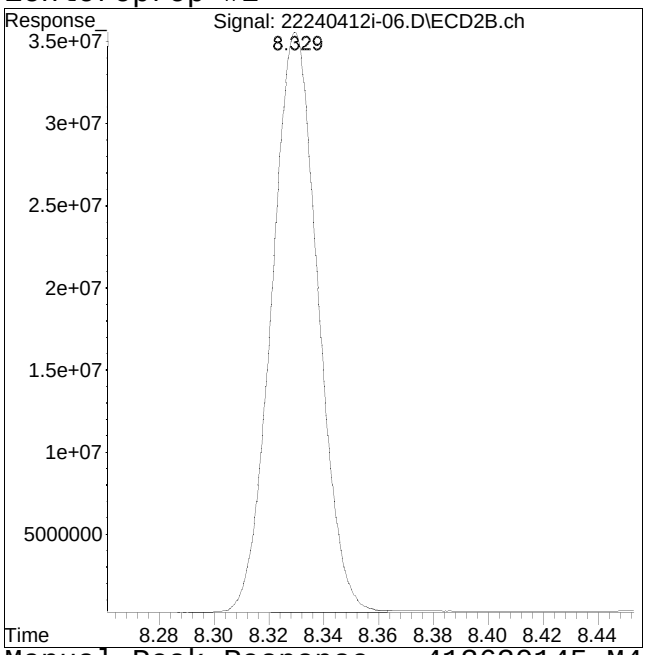
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-06.D Operator : pest22:peg
Date Inj'd : 4/12/2024 7:49 am Instrument : Pest22
Sample : il5herb,42e,,pp11460 L1/10Quant Date : 4/12/2024 8:41 am

Compound #20: Dichloroprop #2



Original Peak Response = 416324840

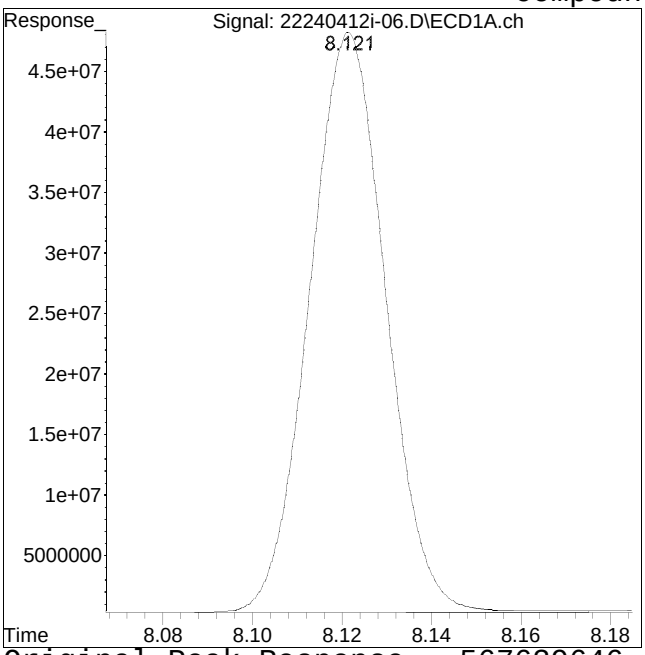


Manual Peak Response = 413630145 M4
M4 = Poor automated baseline construction.

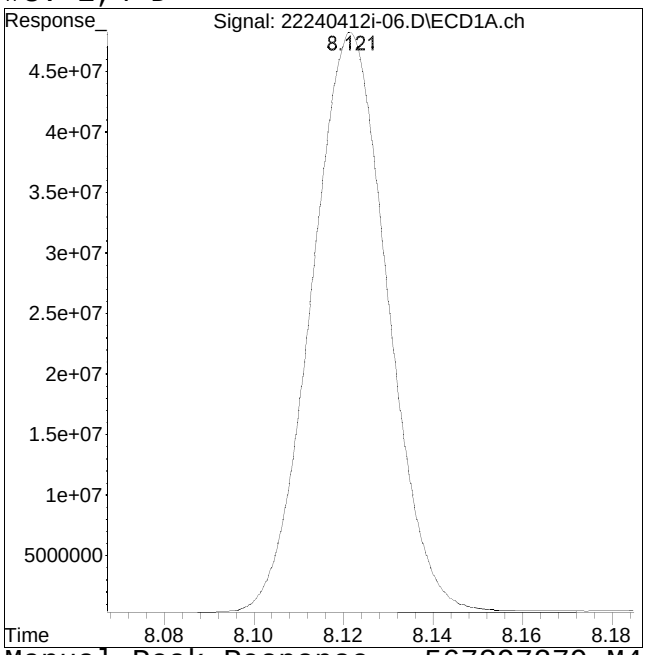
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-06.D Operator : pest22:peg
Date Inj'd : 4/12/2024 7:49 am Instrument : Pest22
Sample : il5herb,42e,,pp11460 L1/10Quant Date : 4/12/2024 8:41 am

Compound #8: 2,4-D



Original Peak Response = 567639646

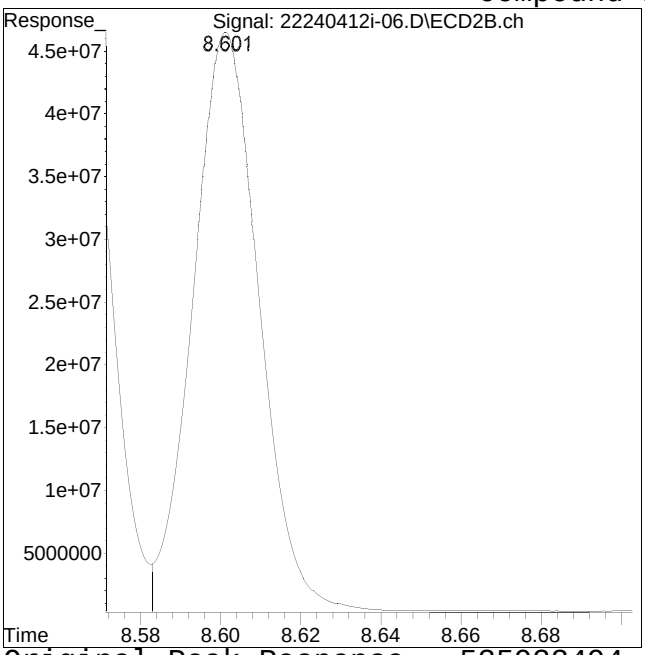


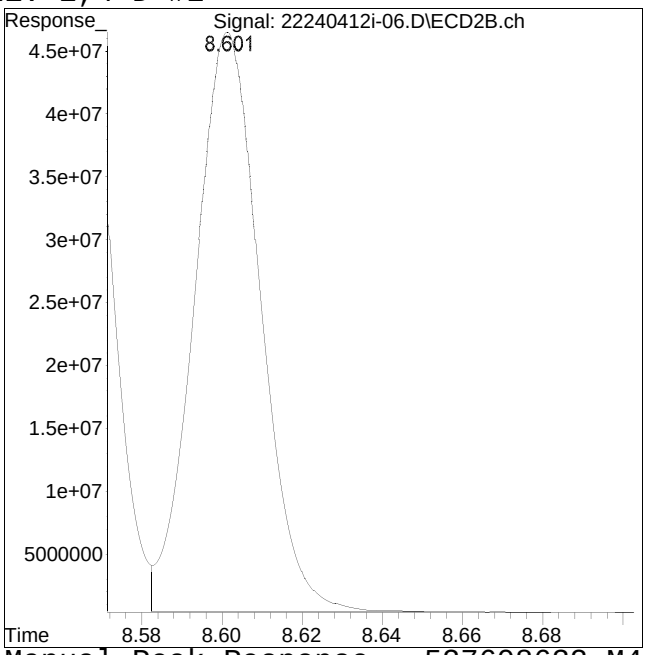
Manual Peak Response = 567397279 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-06.D Operator : pest22:peg
Date Inj'd : 4/12/2024 7:49 am Instrument : Pest22
Sample : il5herb,42e,,pp11460 L1/10Quant Date : 4/12/2024 8:41 am

Compound #21: 2,4-D #2



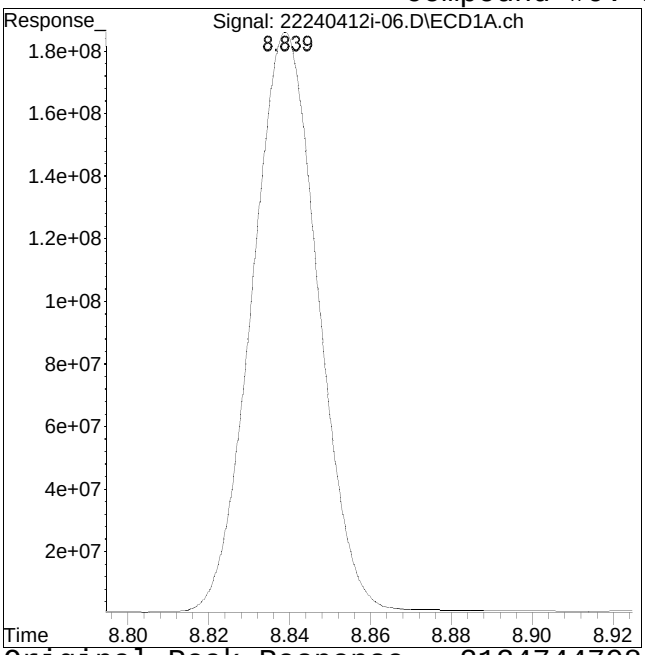


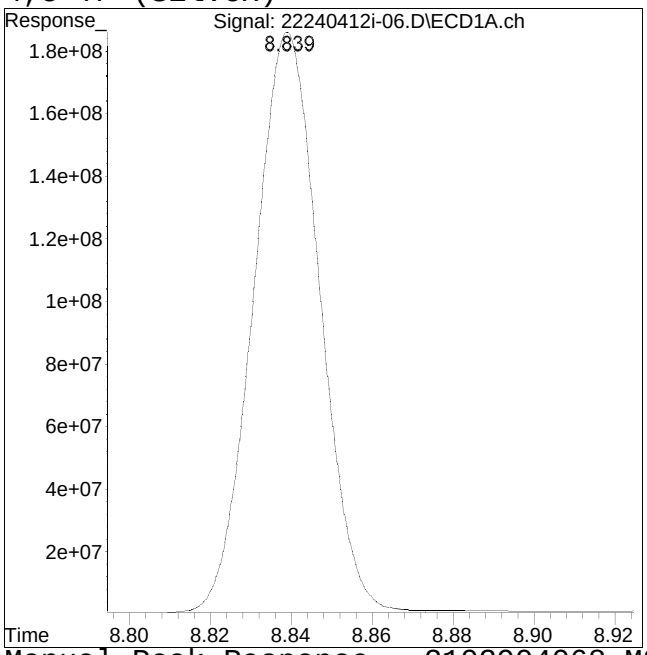
Original Peak Response = 535932494 Manual Peak Response = 527608632 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-06.D Operator : pest22:peg
Date Inj'd : 4/12/2024 7:49 am Instrument : Pest22
Sample : il5herb,42e,,pp11460 L1/10Quant Date : 4/12/2024 8:41 am

Compound #9: 2,4,5-TP (Silvex)



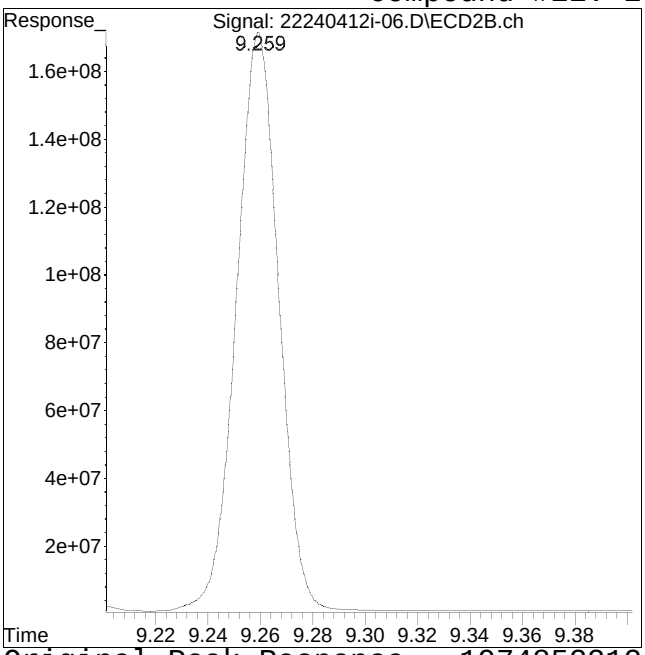


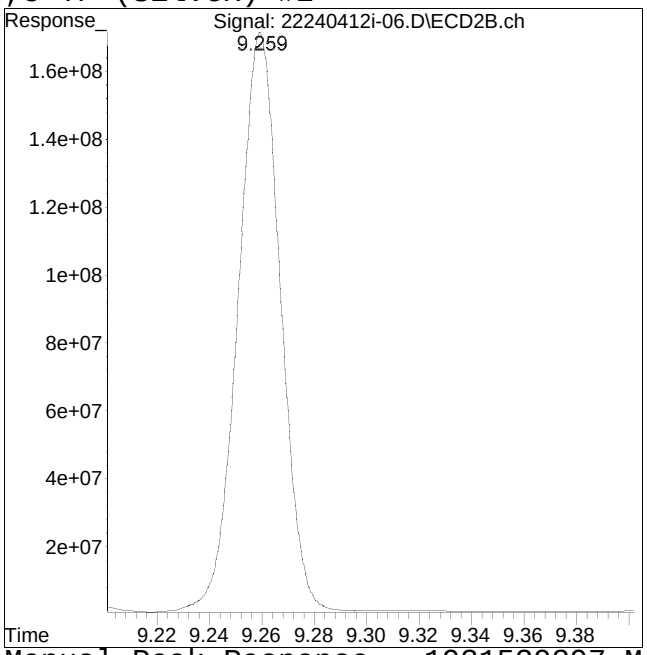
Original Peak Response = 2124744708 Manual Peak Response = 2103904068 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-06.D Operator : pest22:peg
Date Inj'd : 4/12/2024 7:49 am Instrument : Pest22
Sample : il5herb,42e,,pp11460 L1/10Quant Date : 4/12/2024 8:41 am

Compound #22: 2,4,5-TP (Silvex) #2



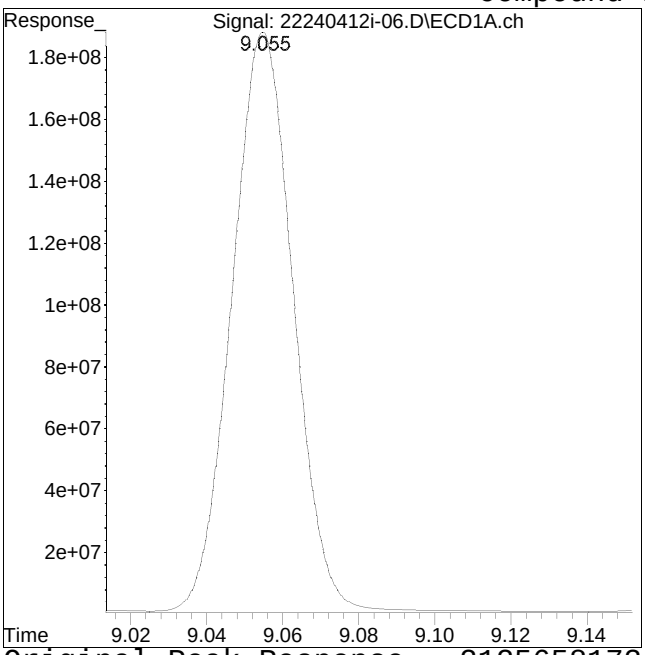


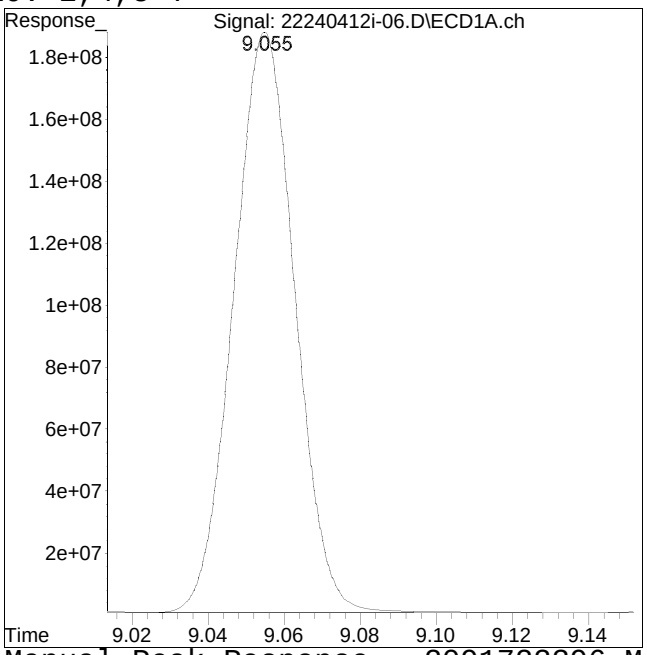
Original Peak Response = 1974852212 Manual Peak Response = 1931539397 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-06.D Operator : pest22:peg
Date Inj'd : 4/12/2024 7:49 am Instrument : Pest22
Sample : il5herb,42e,,pp11460 L1/10Quant Date : 4/12/2024 8:41 am

Compound #10: 2,4,5-T



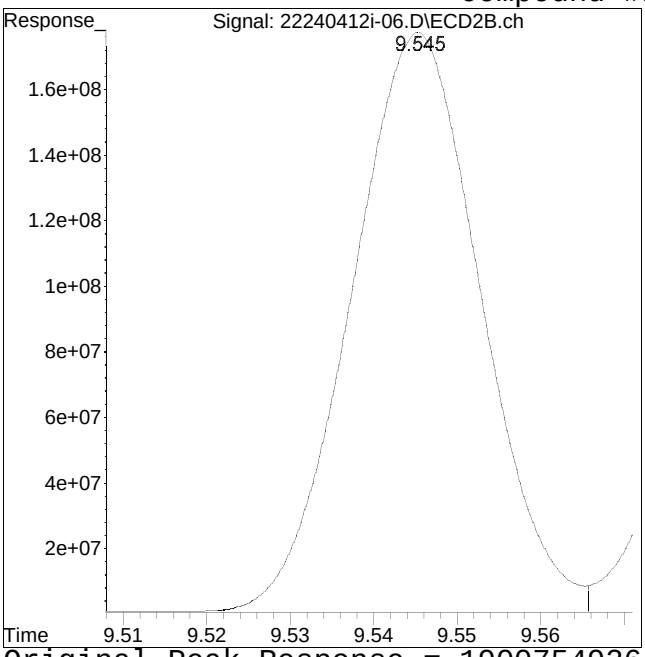


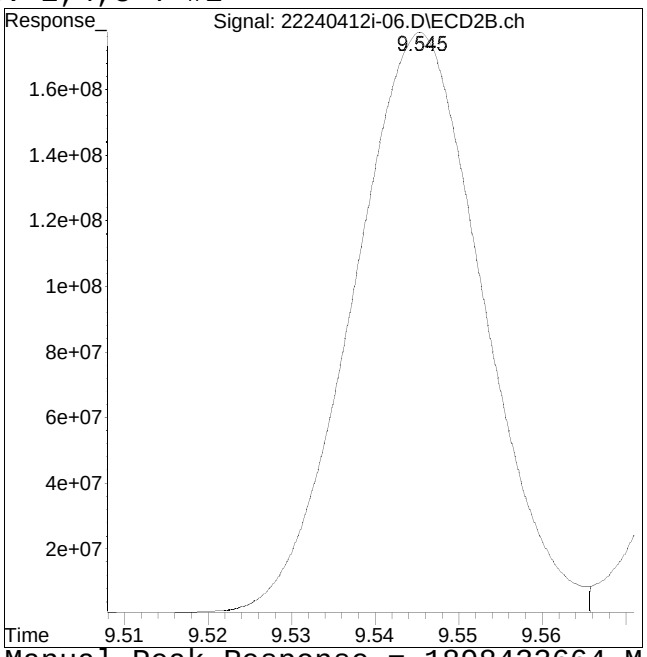
Original Peak Response = 2125658173 Manual Peak Response = 2091723396 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-06.D Operator : pest22:peg
Date Inj'd : 4/12/2024 7:49 am Instrument : Pest22
Sample : il5herb,42e,,pp11460 L1/10Quant Date : 4/12/2024 8:41 am

Compound #23: 2,4,5-T #2



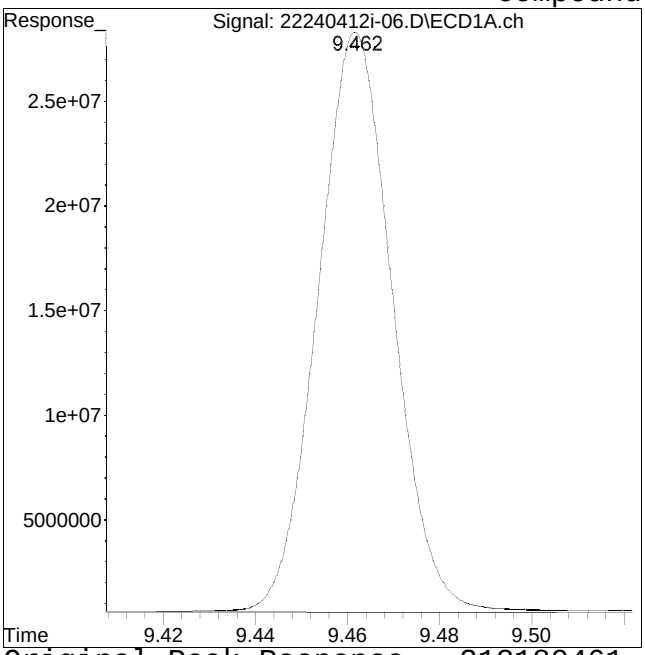


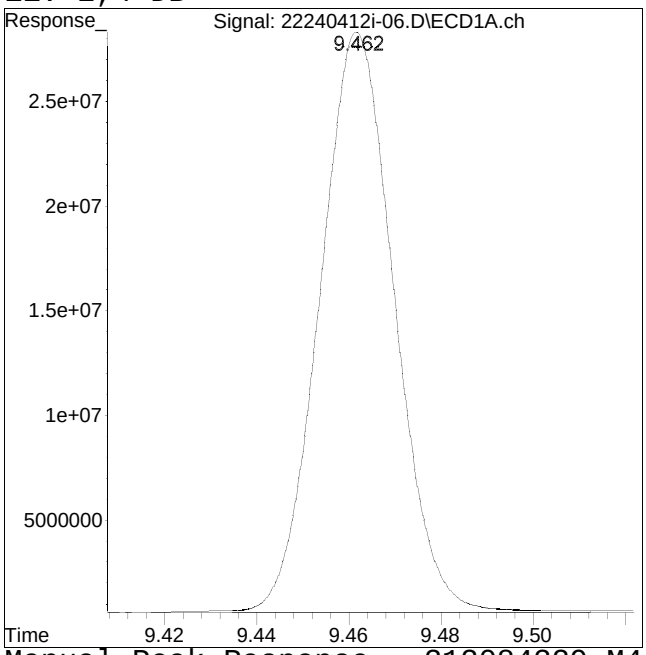
Original Peak Response = 1900754926 Manual Peak Response = 1898433664 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-06.D Operator : pest22:peg
Date Inj'd : 4/12/2024 7:49 am Instrument : Pest22
Sample : il5herb,42e,,pp11460 L1/10Quant Date : 4/12/2024 8:41 am

Compound #11: 2,4-DB



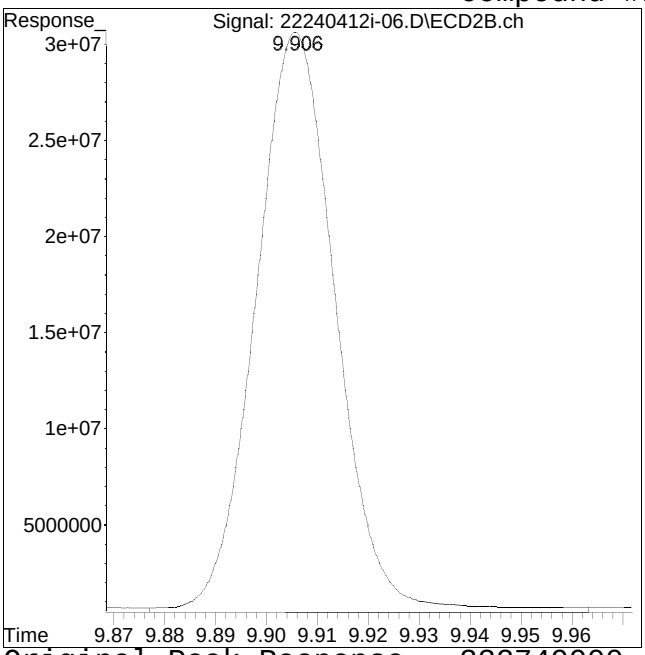


Original Peak Response = 313180461 Manual Peak Response = 312084329 M4
M4 = Poor automated baseline construction.

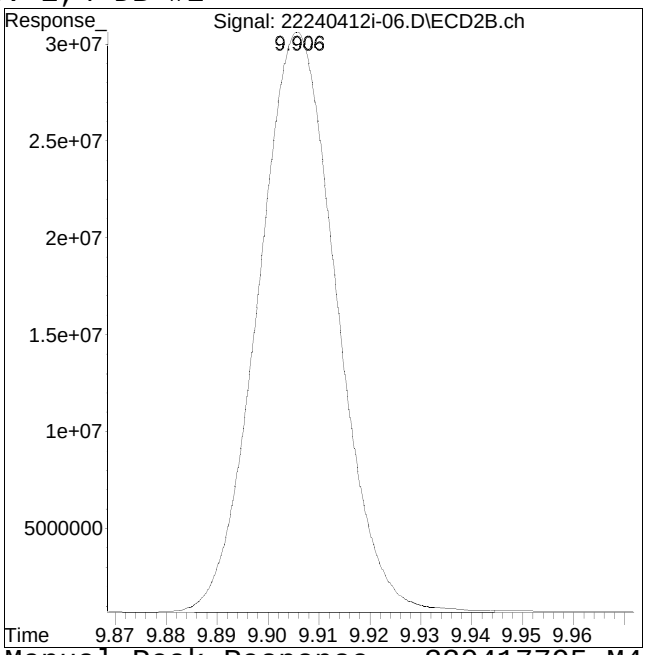
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-06.D Operator : pest22:peg
Date Inj'd : 4/12/2024 7:49 am Instrument : Pest22
Sample : il5herb,42e,,pp11460 L1/10Quant Date : 4/12/2024 8:41 am

Compound #24: 2,4-DB #2



Original Peak Response = 332749900



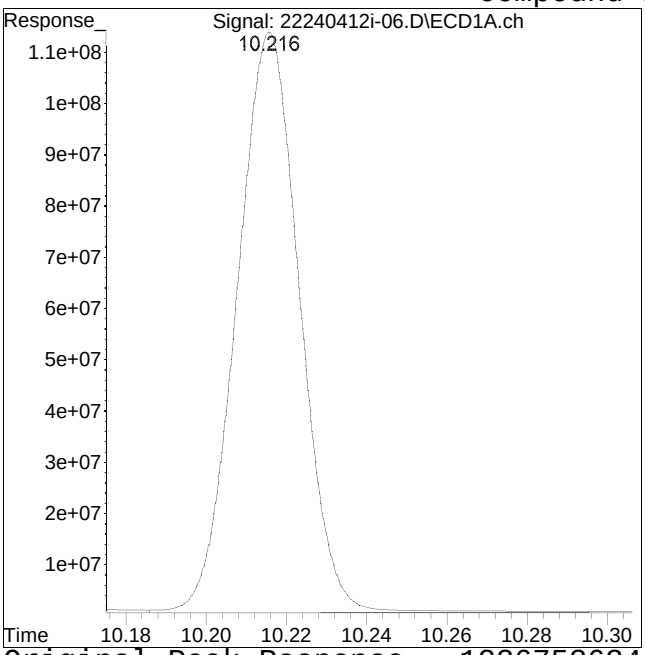
Manual Peak Response = 320417795 M4

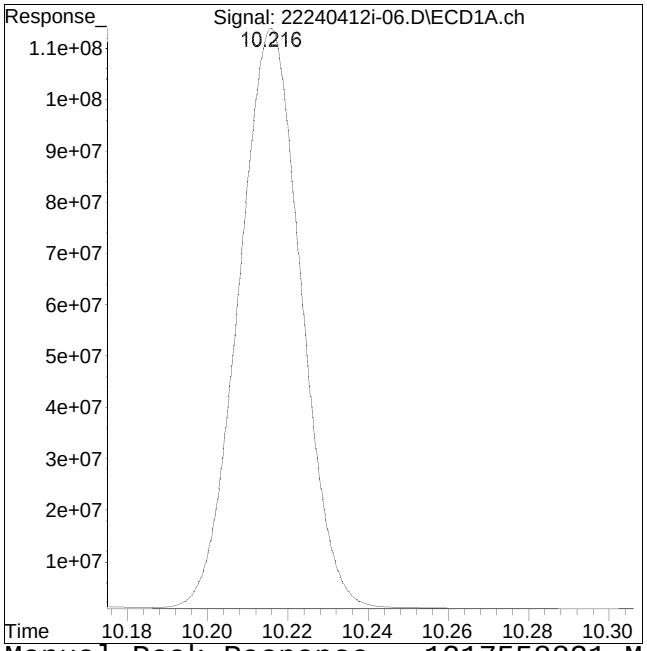
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-06.D Operator : pest22:peg
Date Inj'd : 4/12/2024 7:49 am Instrument : Pest22
Sample : il5herb,42e,,pp11460 L1/10Quant Date : 4/12/2024 8:41 am

Compound #12: Dinoseb



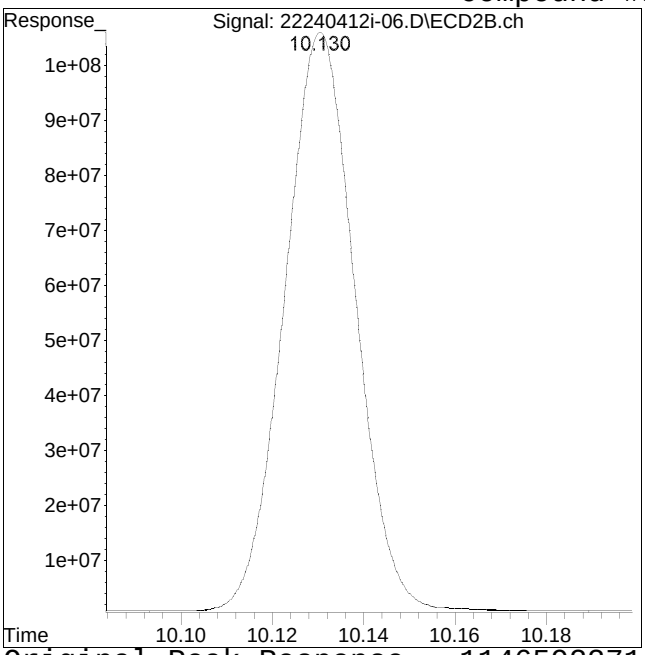


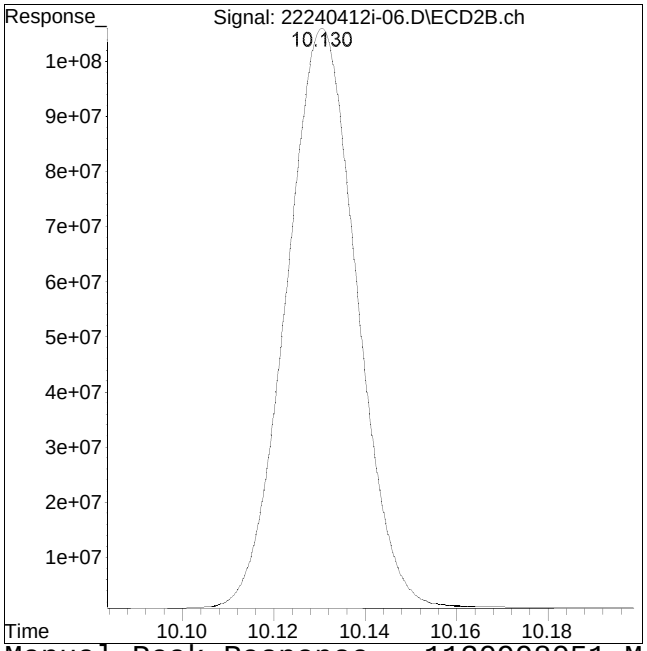
Original Peak Response = 1236753634 Manual Peak Response = 1217558831 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-06.D Operator : pest22:peg
Date Inj'd : 4/12/2024 7:49 am Instrument : Pest22
Sample : il5herb,42e,,pp11460 L1/10Quant Date : 4/12/2024 8:41 am

Compound #25: Dinoseb #2





Original Peak Response = 1146592271 Manual Peak Response = 1130998051 M4
M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest22\2024\240412ical\
Data File : 22240412i-07.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 12 Apr 2024 08:08 am
Operator : pest22:peg
Sample : il6herb,42e,,pp11459 L2/200 (Sig #1); ilherb42e,,pp11459 L2/200 (Sig #2)
Misc : wg1907956, (Sig #1); ical (Sig #2)
ALS Vial : 7 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Apr 12 08:47:17 2024
Quant Method : I:\PEST\Pest22\2024\240412ical\Herb22_2024_04_12_mgL_ICAL.m
Quant Title : herb
QLast Update : Fri Apr 12 08:47:03 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

		Compound	RT#1	RT#2	Resp#1	Resp#2	mg/l	mg/l
		Internal Standards						
1)	i	4,4'-DBOB	8.572	8.565	727.2E6	646.4E6	0.250M4	0.250
		System Monitoring Compounds						
3)	s	DCAA (surrog	7.027	7.495	890.2E6	822.4E6	1.545M4	1.653M4
		Spiked Amount	0.500	Range 30 - 150		Recovery =	309.00%#	330.60%#
		Target Compounds						
2)	t	Dalapon	2.423	2.420	988.0E6	866.5E6	1.622	1.674
4)	t	Dicamba	7.212	7.677	2594.0E6	2566.6E6	1.577M4	1.727M4
5)	t	MCPP	7.416	7.791	282.9E6	337.2E6	180.867M4	183.135M3
6)	t	MCPA	7.563	8.017	429.9E6	493.6E6	161.013M4	166.099
7)	t	Dichloroprop	7.914	8.331	805.8E6	781.8E6	1.506M4	1.661M4
8)	t	2,4-D	8.121	8.602	1052.5E6	1016.8E6	1.562M4	1.737M4
9)	t	2,4,5-TP (Si	8.840	9.260	3962.8E6	3771.2E6	1.610M4	1.768M4
10)	t	2,4,5-T	9.056	9.547	4017.3E6	3728.1E6	1.662M4	1.797M4
11)	t	2,4-DB	9.462	9.907	591.1E6	625.5E6	1.617M4	1.797M4
12)	t	Dinoseb	10.216	10.132	2340.9E6	2234.9E6	1.665M4	1.817M4

SemiQuant Compounds - Not Calibrated on this Instrument

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest22\2024\240412ical\
Data File : 22240412i-07.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 12 Apr 2024 08:08 am
Operator : pest22:peg
Sample : il6herb,42e,,pp11459 L2/200 (Sig #1); ilherb42e,,pp11459 L2/200 (Sig #2)
Misc : wg1907956, (Sig #1); ical (Sig #2)
ALS Vial : 7 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Apr 12 08:47:17 2024
Quant Method : I:\PEST\Pest22\2024\240412ical\Herb22_2024_04_12_mgL_ICAL.m
Quant Title : herb
QLast Update : Fri Apr 12 08:47:03 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	mg/l	mg/l

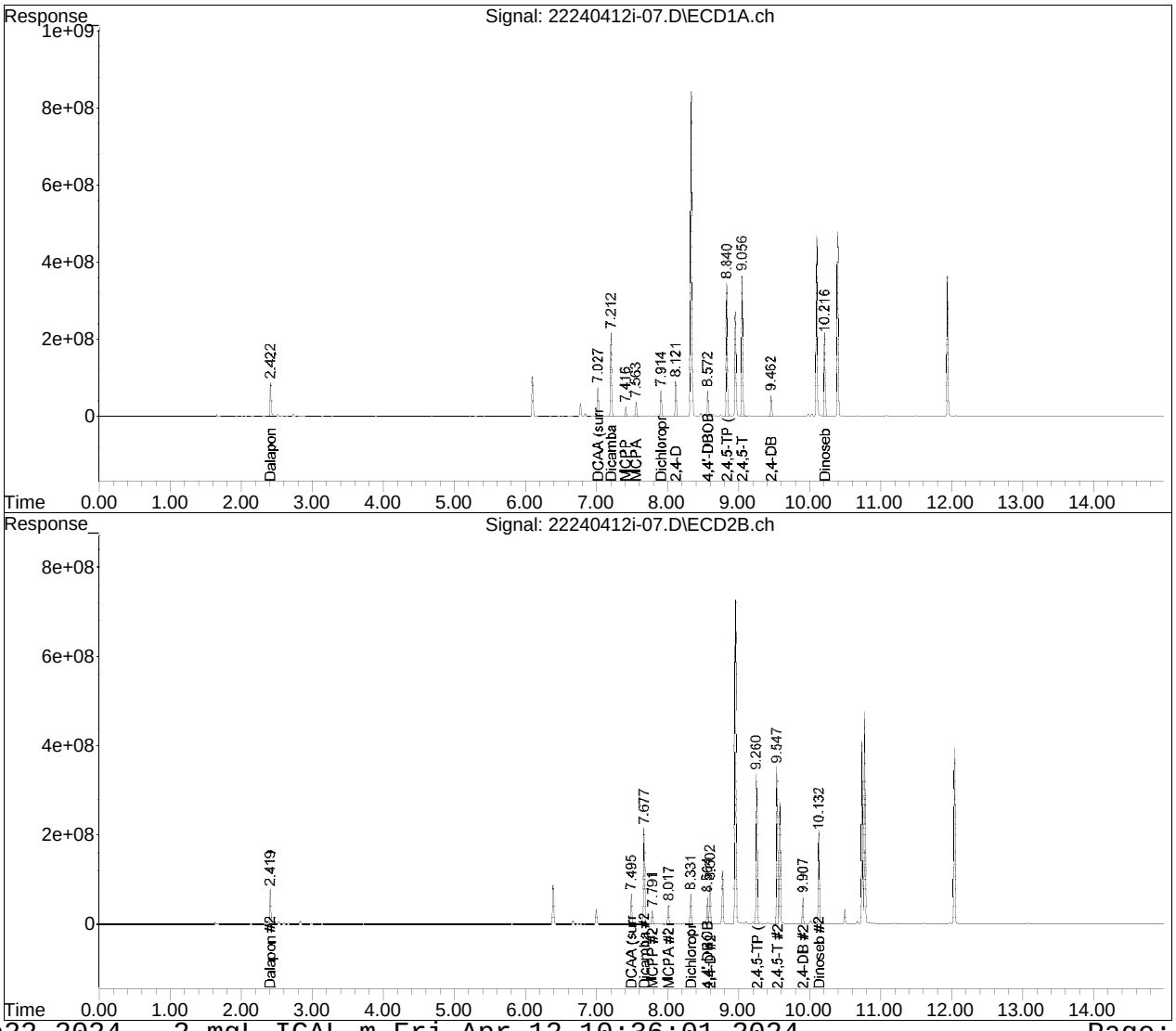
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest22\2024\240412ical\
Data File : 22240412i-07.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 12 Apr 2024 08:08 am
Operator : pest22:peg
Sample : il6herb,42e,,pp11459 L2/200 (Sig #1); ilherb42e,,pp11459 L2/200 (S
Misc : wg1907956, (Sig #1); ical (Sig #2)
ALS Vial : 7 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Apr 12 08:47:17 2024
Quant Method : I:\PEST\Pest22\2024\240412ical\Herb22_2024_04_12_mgL_ICAL.m
Quant Title : herb
QLast Update : Fri Apr 12 08:47:03 2024
Response via : Initial Calibration
Integrator: ChemStation

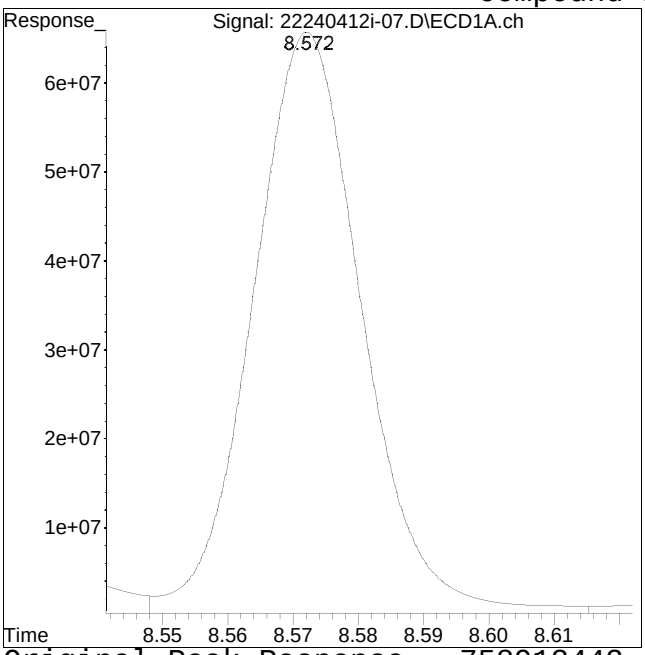
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

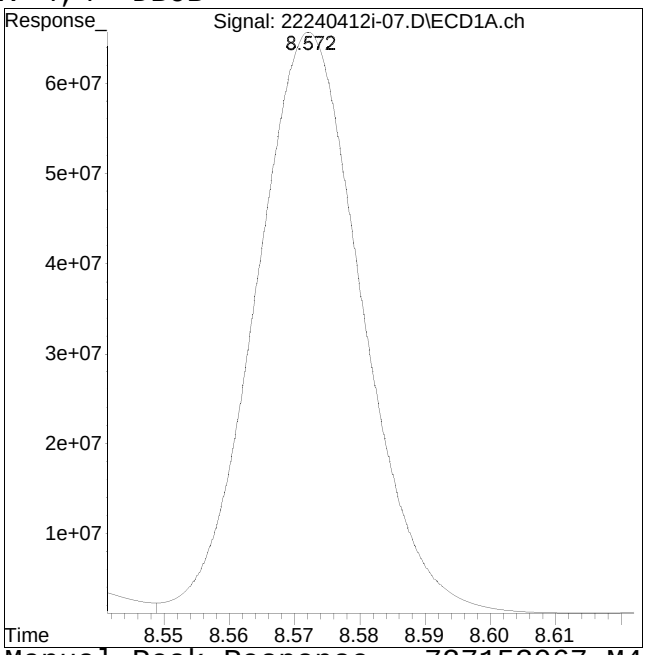


Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-07.D Operator : pest22:peg
Date Inj'd : 4/12/2024 8:08 am Instrument : Pest22
Sample : il6herb,42e,,pp11459 L2/20Quant Date : 4/12/2024 8:47 am

Compound #1: 4,4'-DBOB



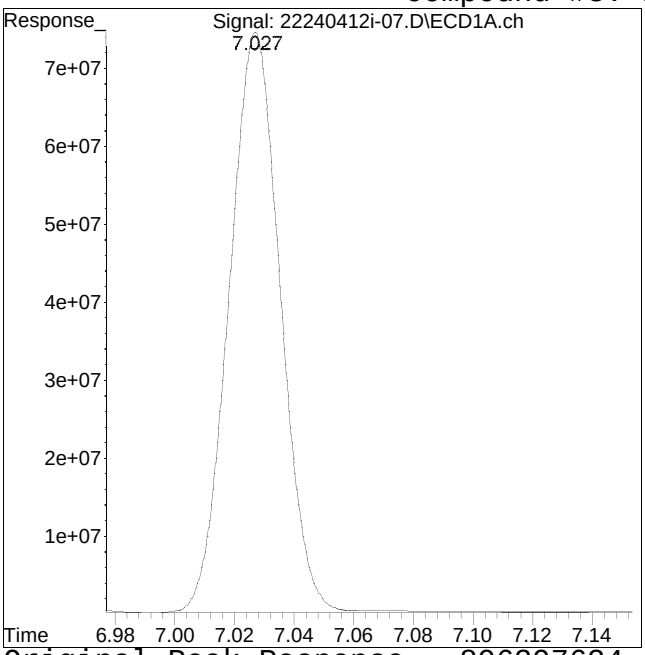


Original Peak Response = 758912442 Manual Peak Response = 727153067 M4
M4 = Poor automated baseline construction.

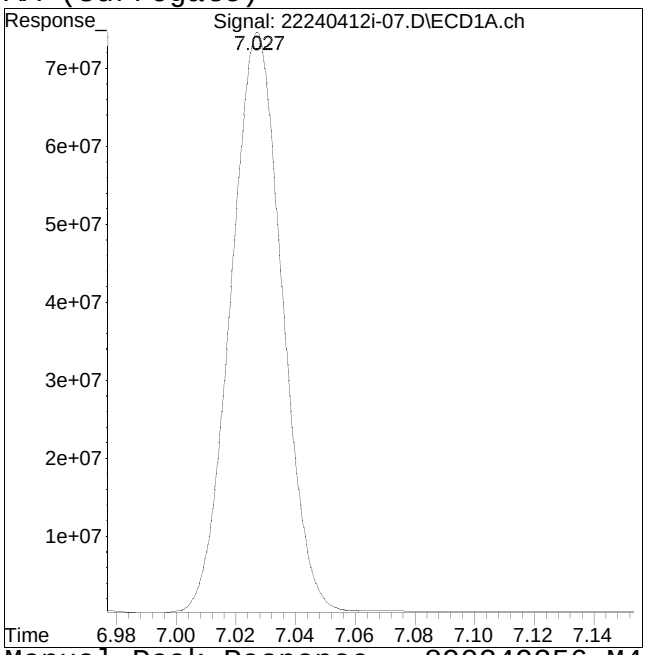
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-07.D Operator : pest22:peg
Date Inj'd : 4/12/2024 8:08 am Instrument : Pest22
Sample : il6herb,42e,,pp11459 L2/20Quant Date : 4/12/2024 8:47 am

Compound #3: DCAA (surrogate)



Original Peak Response = 896397624

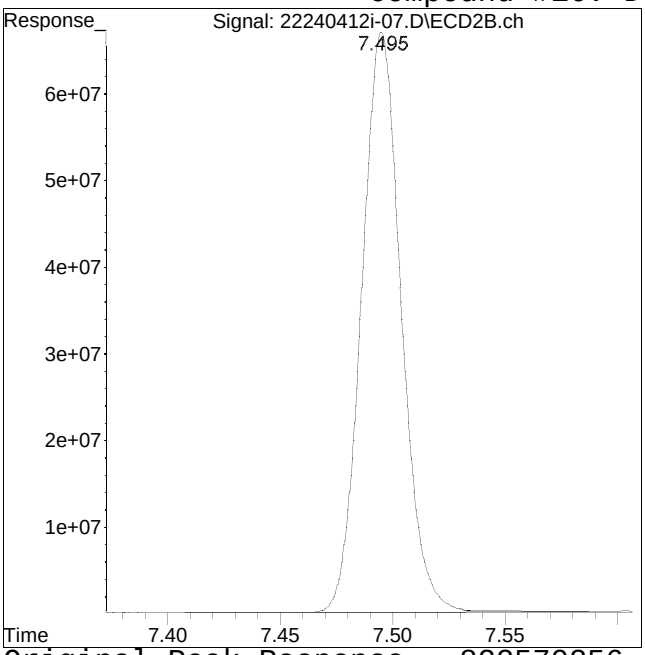


Manual Peak Response = 890249356 M4
M4 = Poor automated baseline construction.

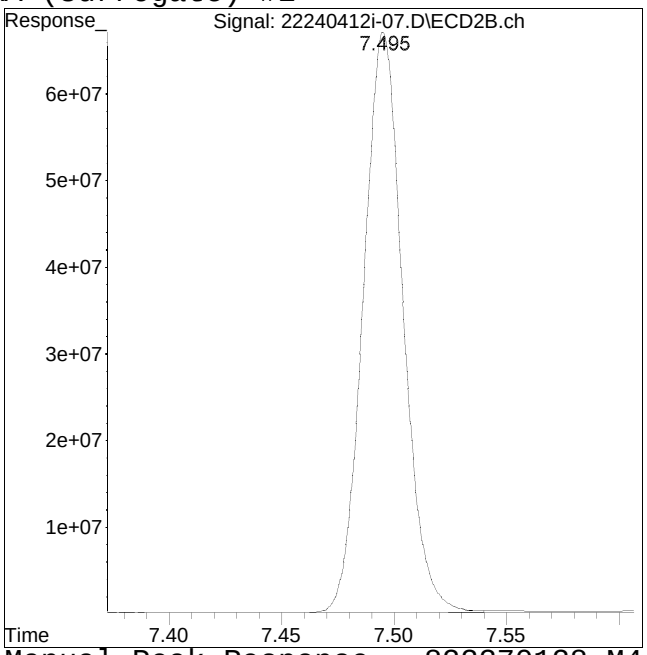
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-07.D Operator : pest22:peg
Date Inj'd : 4/12/2024 8:08 am Instrument : Pest22
Sample : il6herb,42e,,pp11459 L2/20Quant Date : 4/12/2024 8:47 am

Compound #16: DCAA (surrogate) #2



Original Peak Response = 822570256



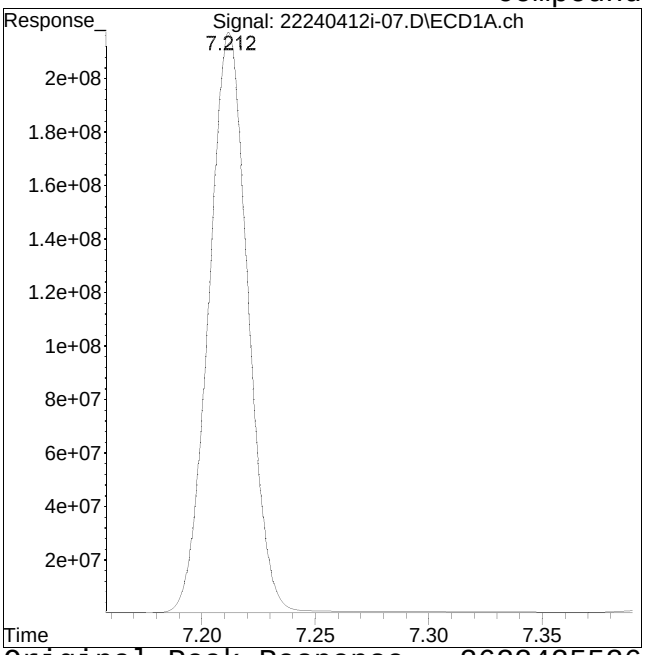
Manual Peak Response = 822370128 M4

M4 = Poor automated baseline construction.

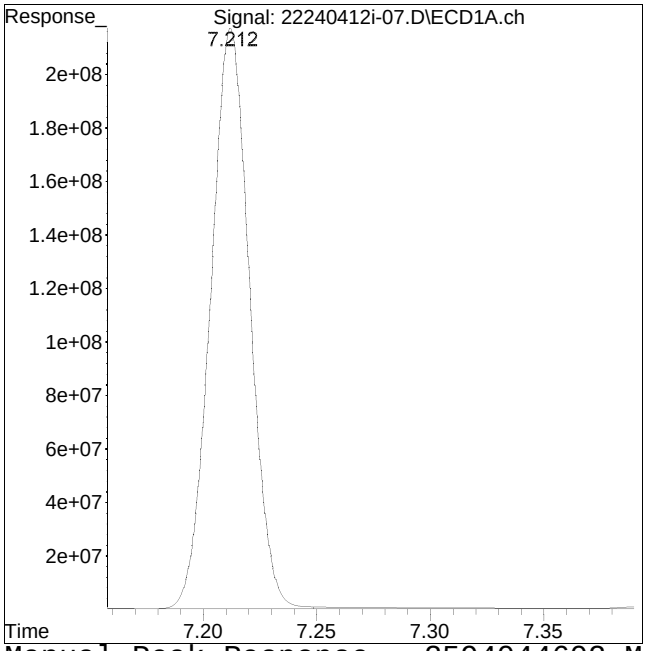
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-07.D Operator : pest22:peg
Date Inj'd : 4/12/2024 8:08 am Instrument : Pest22
Sample : il6herb,42e,,pp11459 L2/20Quant Date : 4/12/2024 8:47 am

Compound #4: Dicamba



Original Peak Response = 2622425526



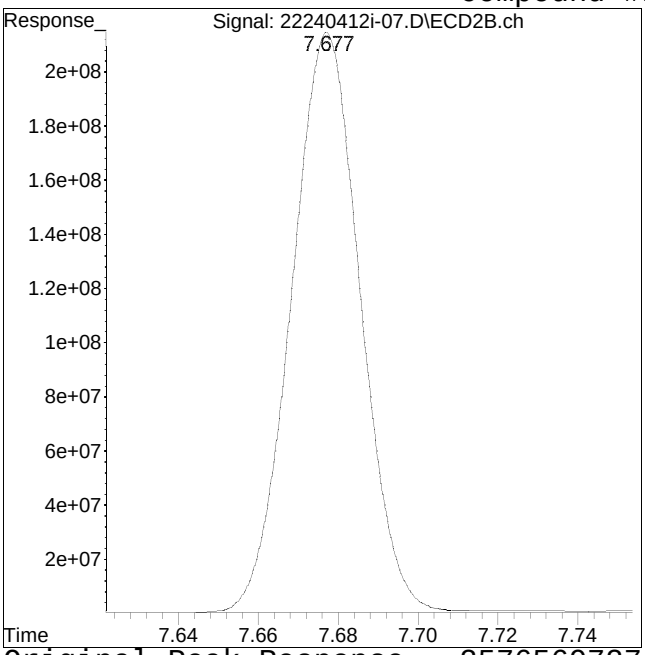
Manual Peak Response = 2594044602 M4

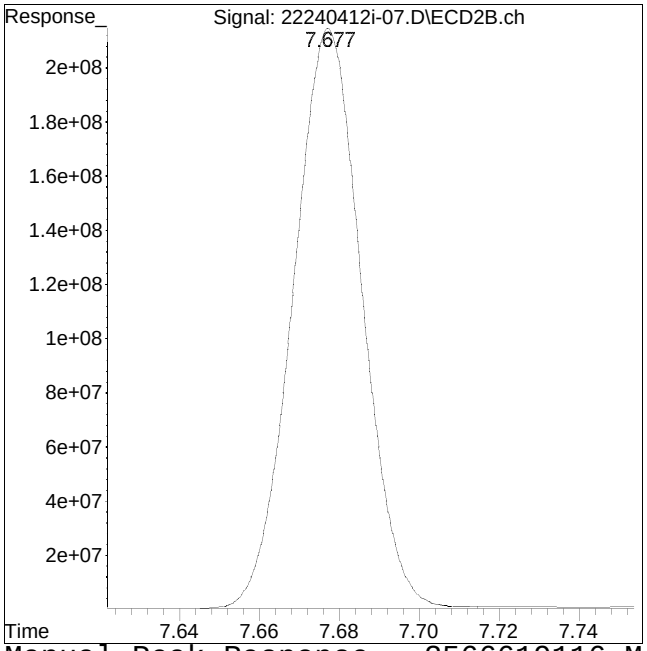
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-07.D Operator : pest22:peg
Date Inj'd : 4/12/2024 8:08 am Instrument : Pest22
Sample : il6herb,42e,,pp11459 L2/20Quant Date : 4/12/2024 8:47 am

Compound #17: Dicamba #2



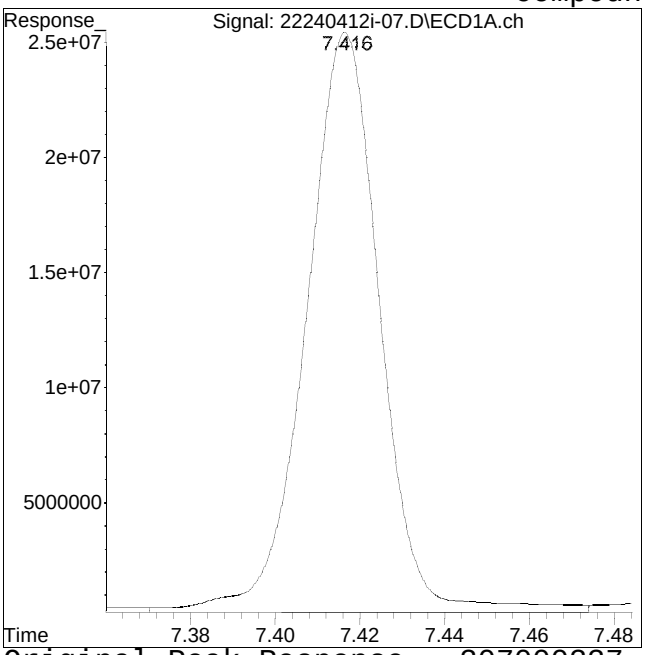


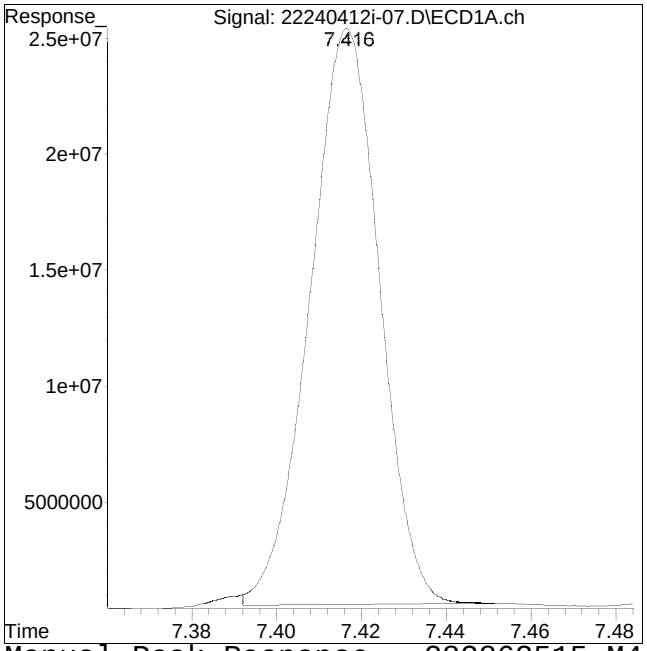
Original Peak Response = 2576569727 Manual Peak Response = 2566619116 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-07.D Operator : pest22:peg
Date Inj'd : 4/12/2024 8:08 am Instrument : Pest22
Sample : il6herb,42e,,pp11459 L2/20Quant Date : 4/12/2024 8:47 am

Compound #5: MCPP



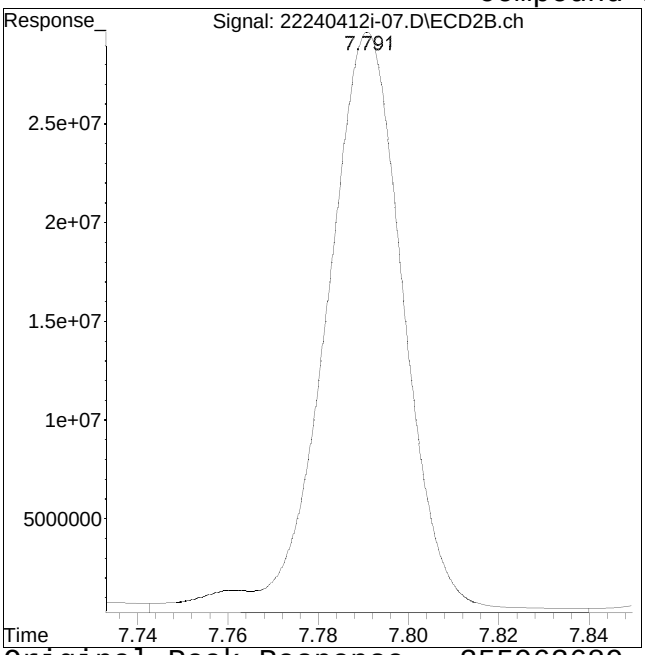


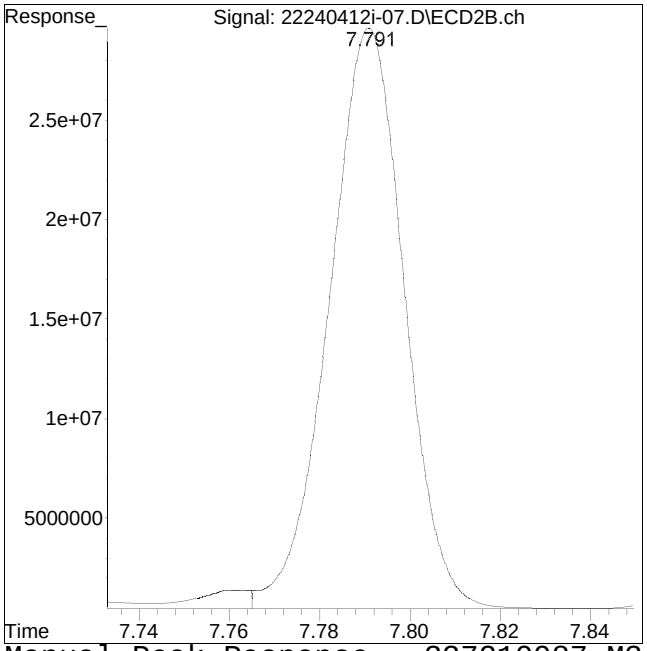
Original Peak Response = 307000337 Manual Peak Response = 282863515 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-07.D Operator : pest22:peg
Date Inj'd : 4/12/2024 8:08 am Instrument : Pest22
Sample : il6herb,42e,,pp11459 L2/20Quant Date : 4/12/2024 8:47 am

Compound #18: MCPP #2



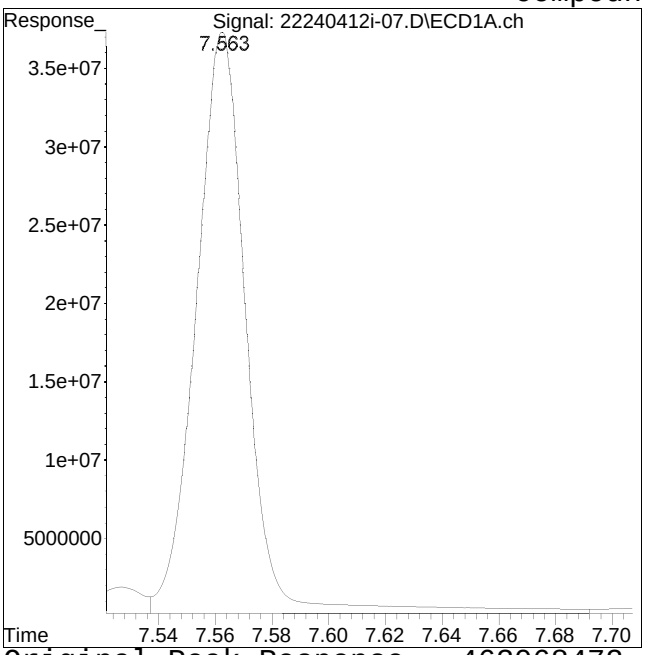


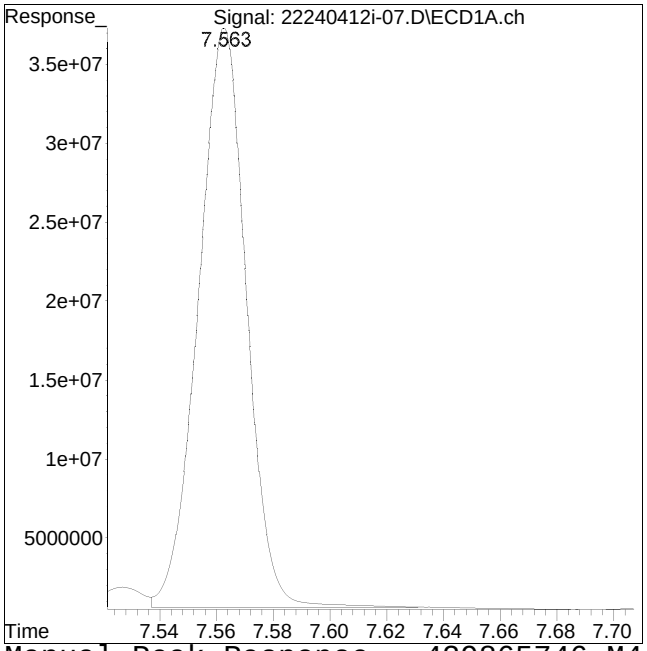
Original Peak Response = 355963689 Manual Peak Response = 337210987 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-07.D Operator : pest22:peg
Date Inj'd : 4/12/2024 8:08 am Instrument : Pest22
Sample : il6herb,42e,,pp11459 L2/20Quant Date : 4/12/2024 8:47 am

Compound #6: MCPA



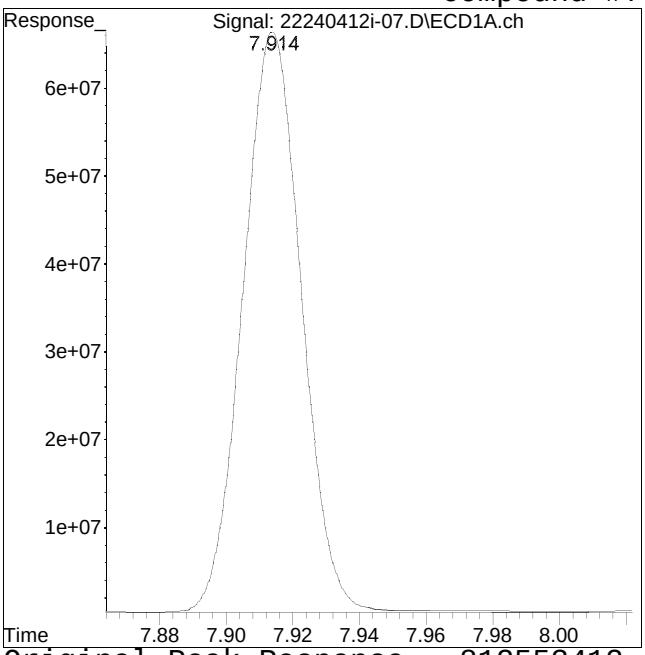


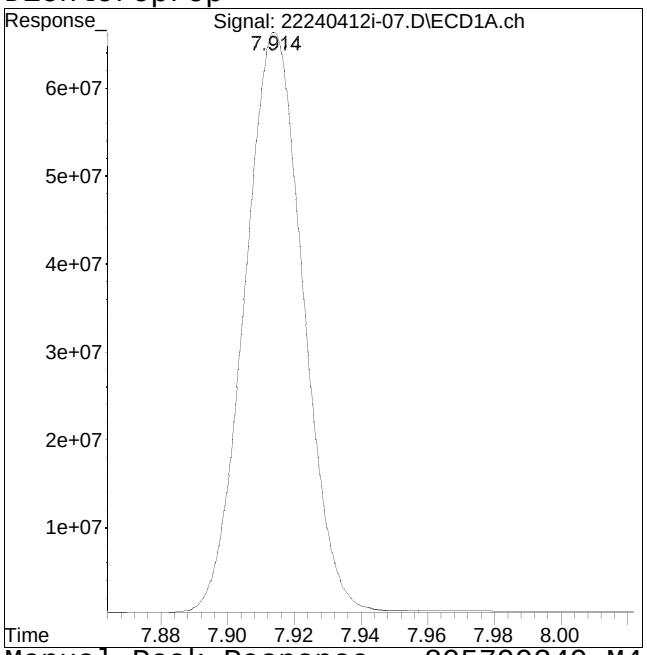
Original Peak Response = 463068472 Manual Peak Response = 429865746 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-07.D Operator : pest22:peg
Date Inj'd : 4/12/2024 8:08 am Instrument : Pest22
Sample : il6herb,42e,,pp11459 L2/20Quant Date : 4/12/2024 8:47 am

Compound #7: Dichloroprop



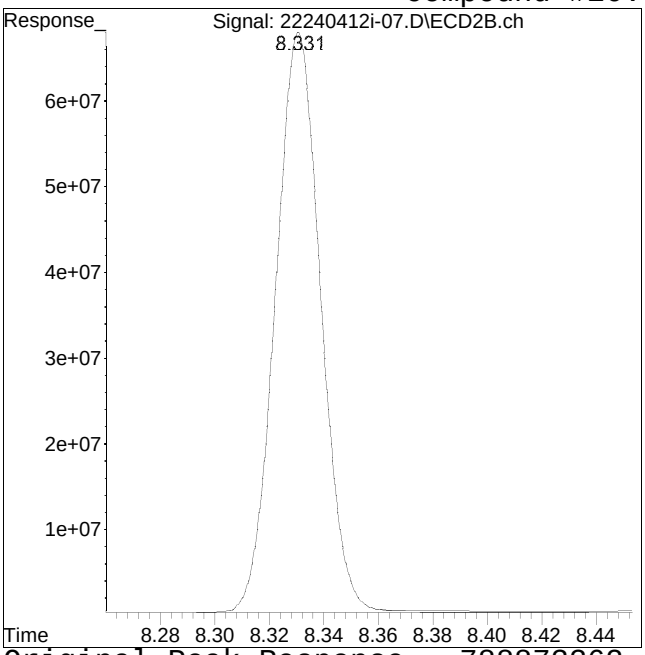


Original Peak Response = 812553412 Manual Peak Response = 805799349 M4
M4 = Poor automated baseline construction.

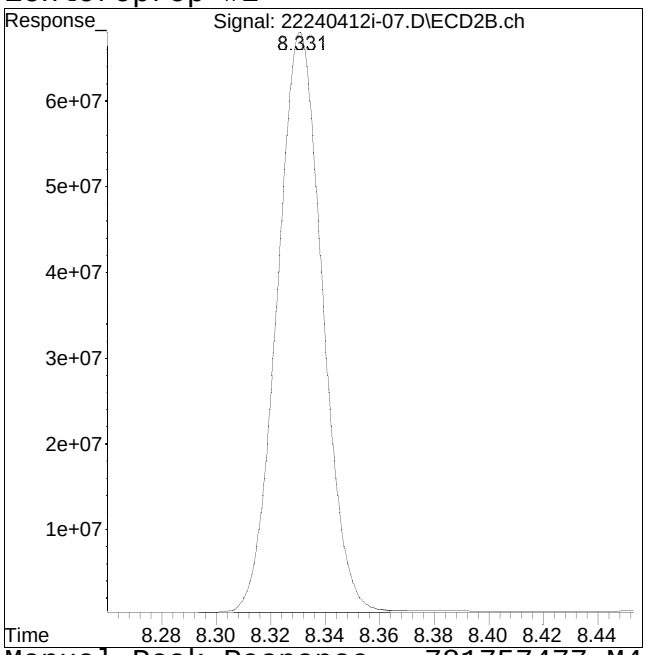
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-07.D Operator : pest22:peg
Date Inj'd : 4/12/2024 8:08 am Instrument : Pest22
Sample : il6herb,42e,,pp11459 L2/20Quant Date : 4/12/2024 8:47 am

Compound #20: Dichloroprop #2



Original Peak Response = 788873362



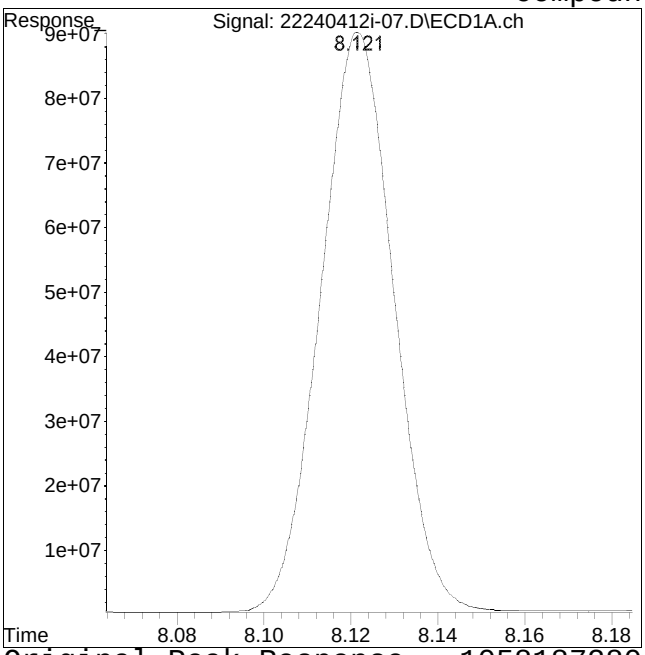
Manual Peak Response = 781757477 M4

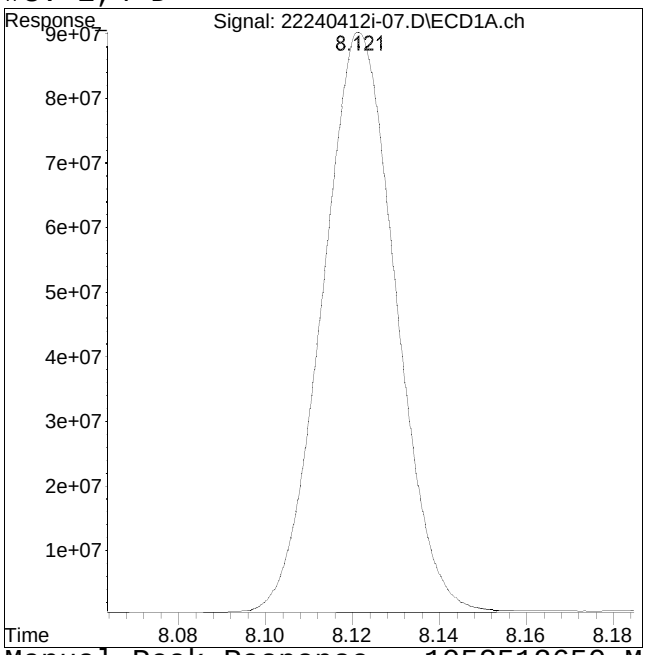
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-07.D Operator : pest22:peg
Date Inj'd : 4/12/2024 8:08 am Instrument : Pest22
Sample : il6herb,42e,,pp11459 L2/20Quant Date : 4/12/2024 8:47 am

Compound #8: 2,4-D



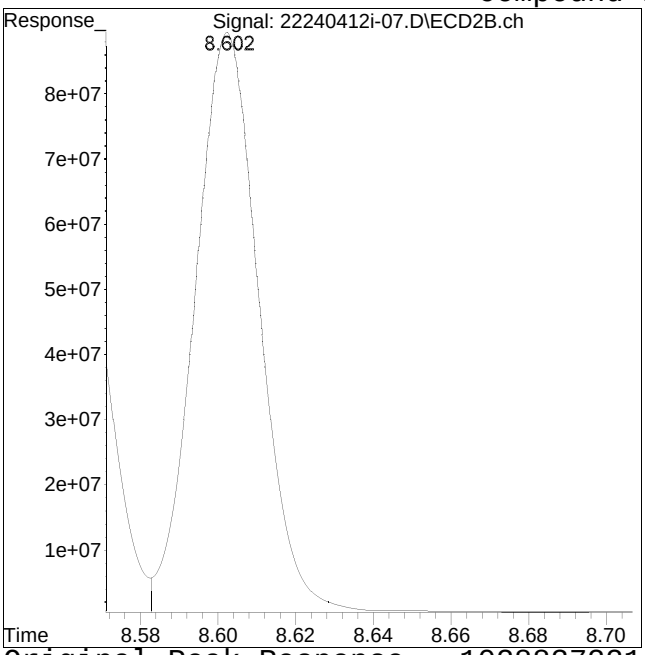


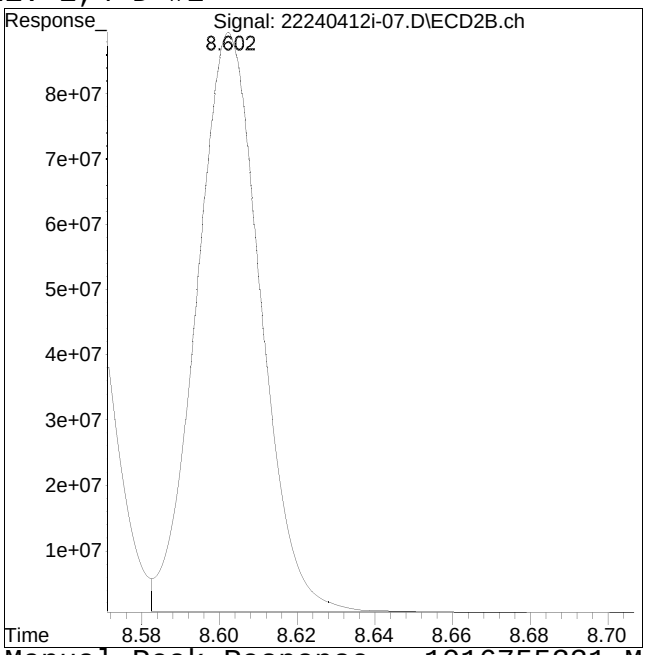
Original Peak Response = 1058187280 Manual Peak Response = 1052512650 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-07.D Operator : pest22:peg
Date Inj'd : 4/12/2024 8:08 am Instrument : Pest22
Sample : il6herb,42e,,pp11459 L2/20Quant Date : 4/12/2024 8:47 am

Compound #21: 2,4-D #2



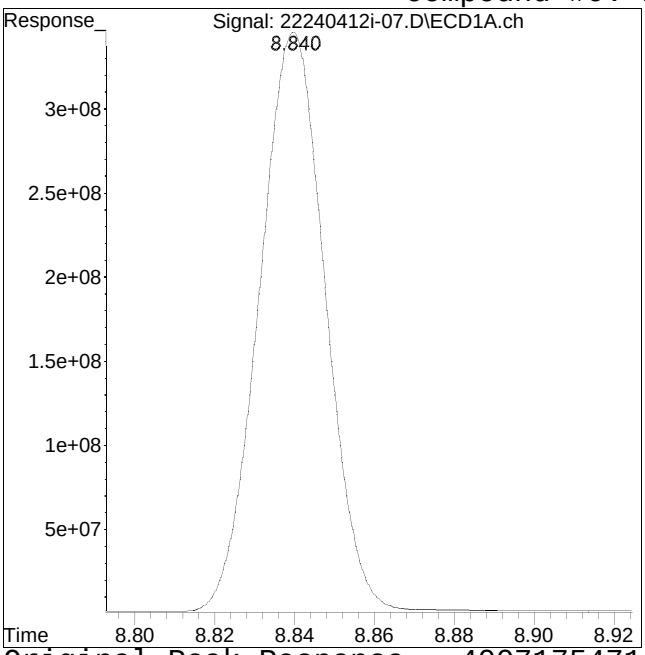


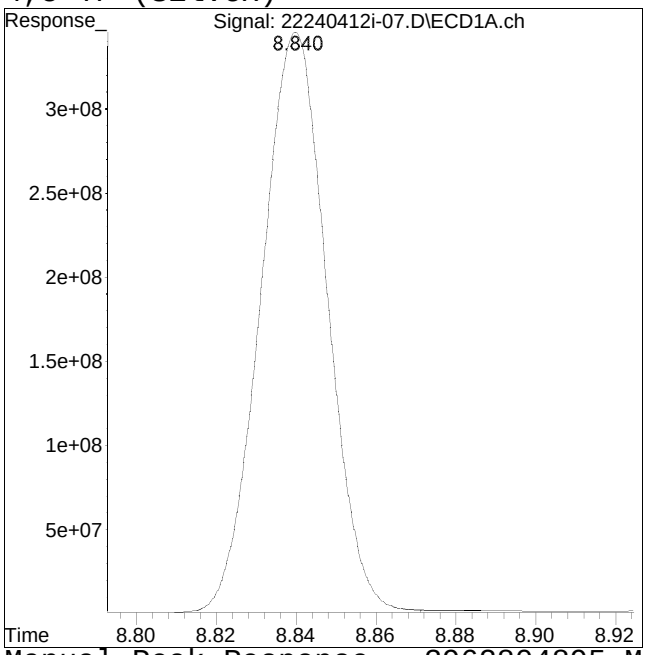
Original Peak Response = 1028837221 Manual Peak Response = 1016755331 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-07.D Operator : pest22:peg
Date Inj'd : 4/12/2024 8:08 am Instrument : Pest22
Sample : il6herb,42e,,pp11459 L2/20Quant Date : 4/12/2024 8:47 am

Compound #9: 2,4,5-TP (Silvex)



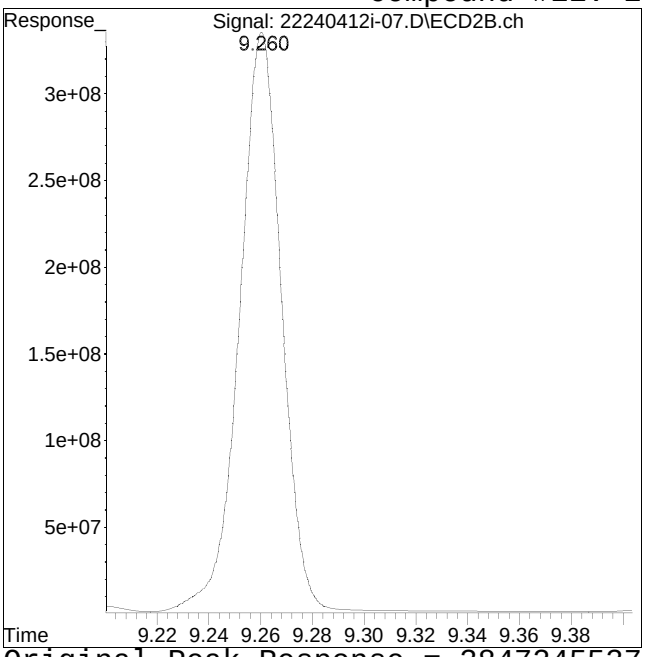


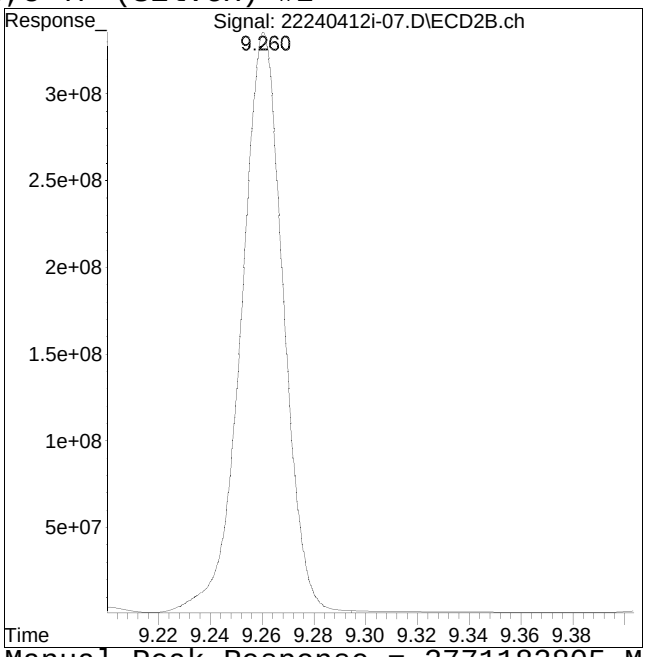
Original Peak Response = 4007175471 Manual Peak Response = 3962804895 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-07.D Operator : pest22:peg
Date Inj'd : 4/12/2024 8:08 am Instrument : Pest22
Sample : il6herb,42e,,pp11459 L2/20Quant Date : 4/12/2024 8:47 am

Compound #22: 2,4,5-TP (Silvex) #2



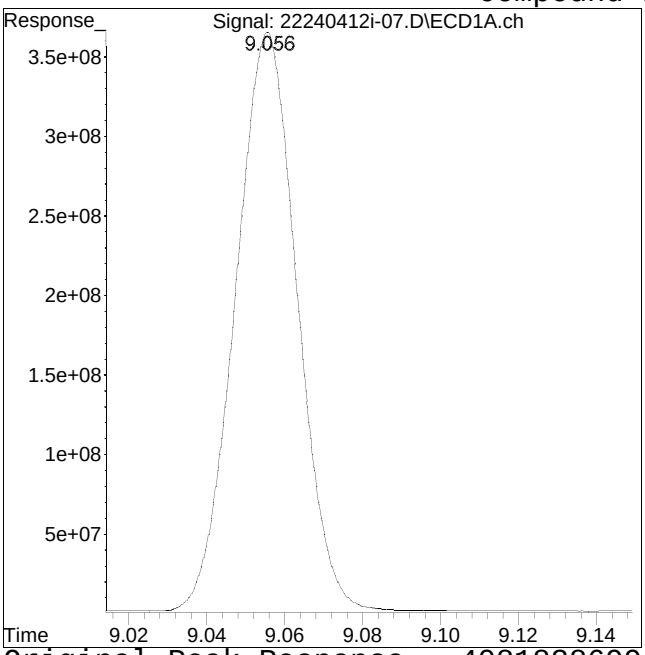


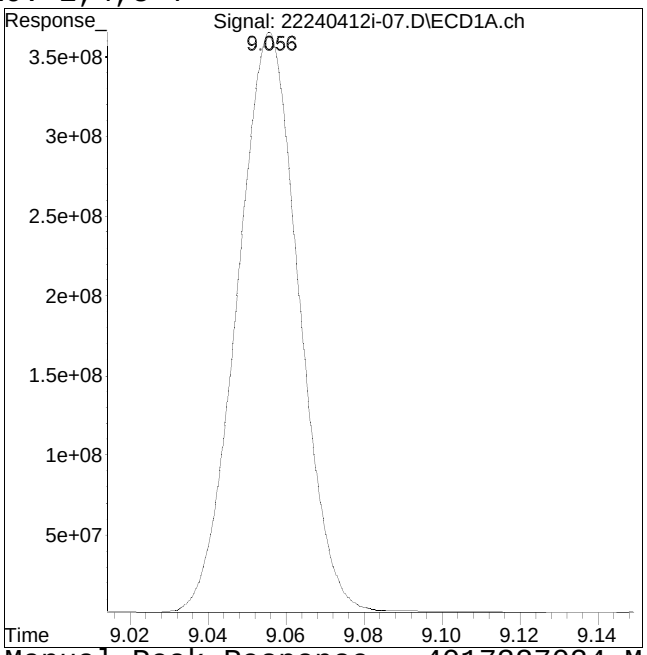
Original Peak Response = 3847245537 Manual Peak Response = 3771183805 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-07.D Operator : pest22:peg
Date Inj'd : 4/12/2024 8:08 am Instrument : Pest22
Sample : il6herb,42e,,pp11459 L2/20Quant Date : 4/12/2024 8:47 am

Compound #10: 2,4,5-T



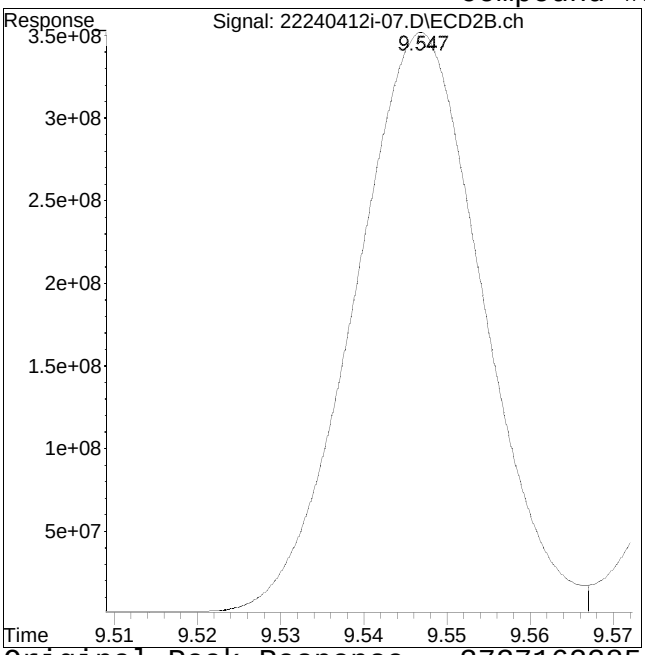


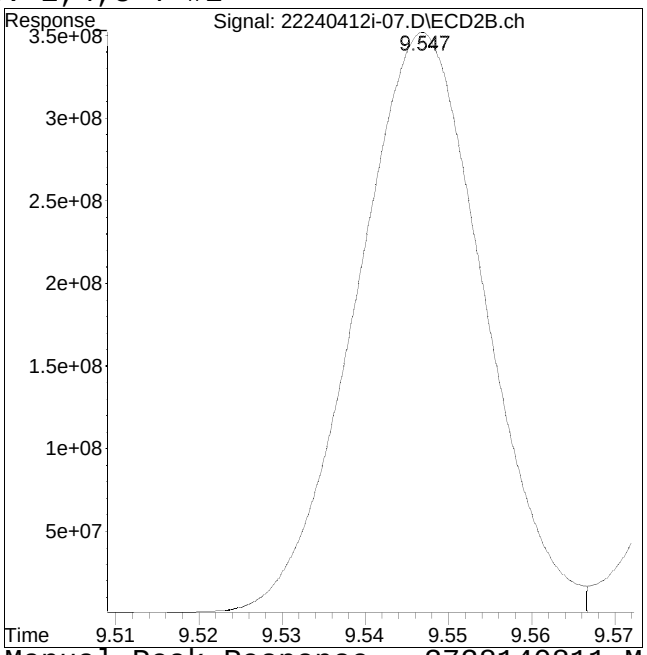
Original Peak Response = 4081838699 Manual Peak Response = 4017327024 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-07.D Operator : pest22:peg
Date Inj'd : 4/12/2024 8:08 am Instrument : Pest22
Sample : il6herb,42e,,pp11459 L2/20Quant Date : 4/12/2024 8:47 am

Compound #23: 2,4,5-T #2



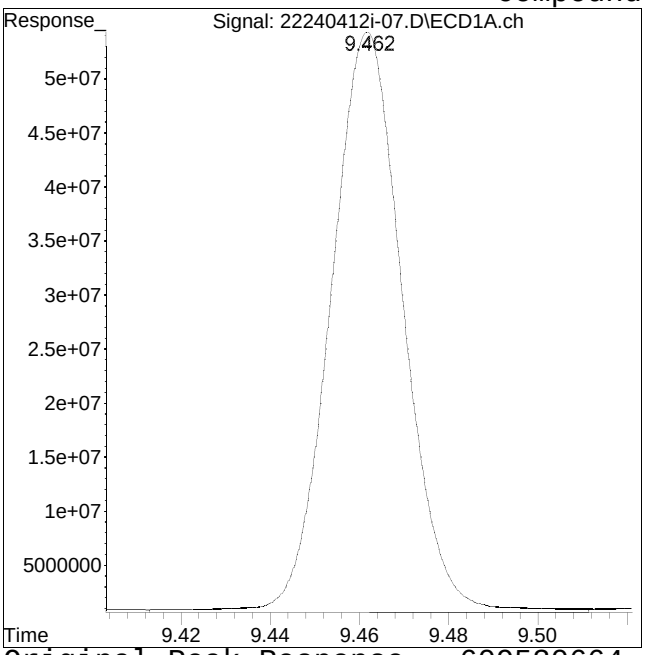


Original Peak Response = 3737163385 Manual Peak Response = 3728140811 M4
M4 = Poor automated baseline construction.

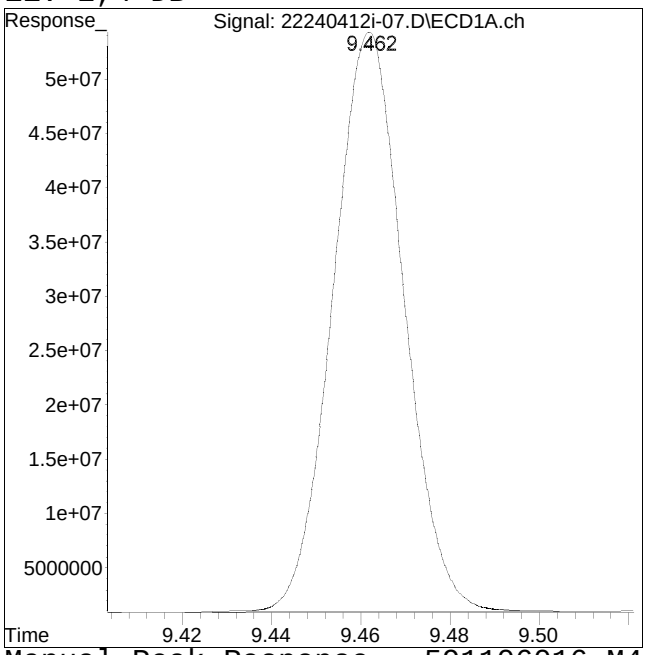
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-07.D Operator : pest22:peg
Date Inj'd : 4/12/2024 8:08 am Instrument : Pest22
Sample : il6herb,42e,,pp11459 L2/20Quant Date : 4/12/2024 8:47 am

Compound #11: 2,4-DB



Original Peak Response = 609530664



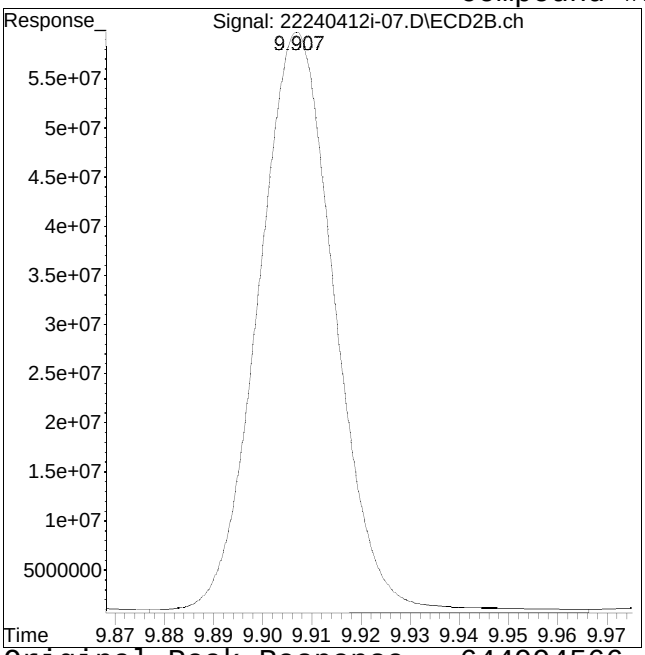
Manual Peak Response = 591106016 M4

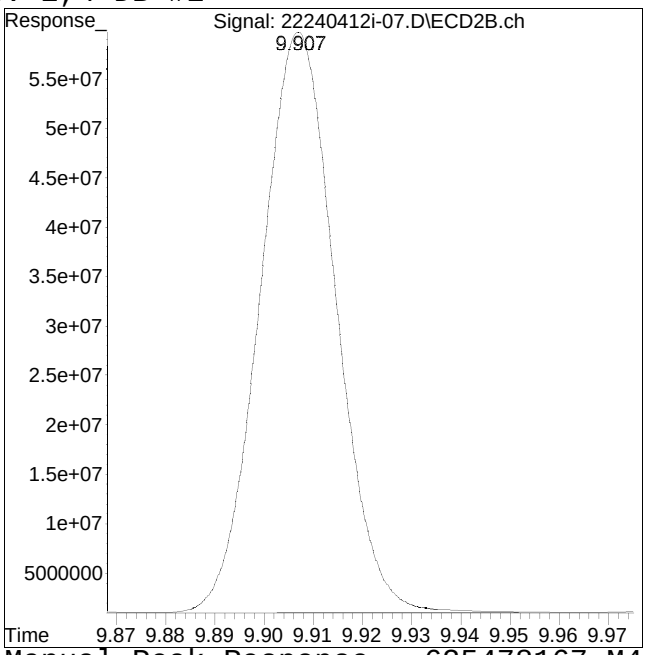
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-07.D Operator : pest22:peg
Date Inj'd : 4/12/2024 8:08 am Instrument : Pest22
Sample : il6herb,42e,,pp11459 L2/20Quant Date : 4/12/2024 8:47 am

Compound #24: 2,4-DB #2



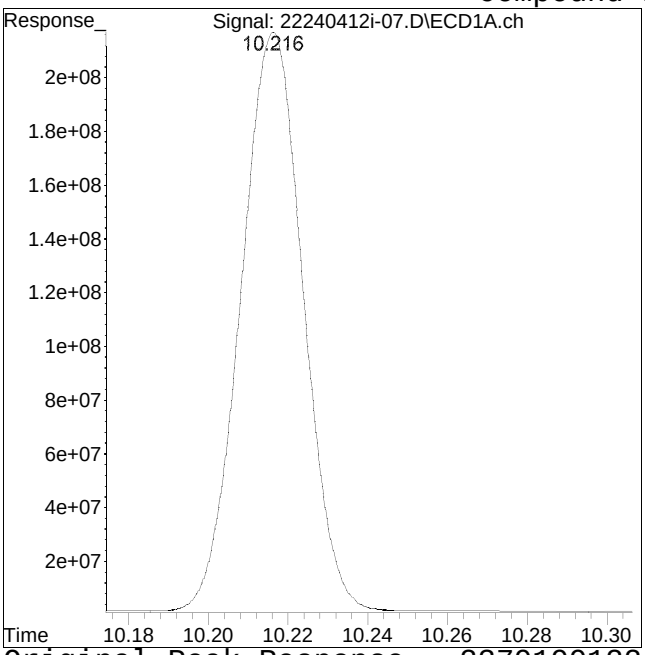


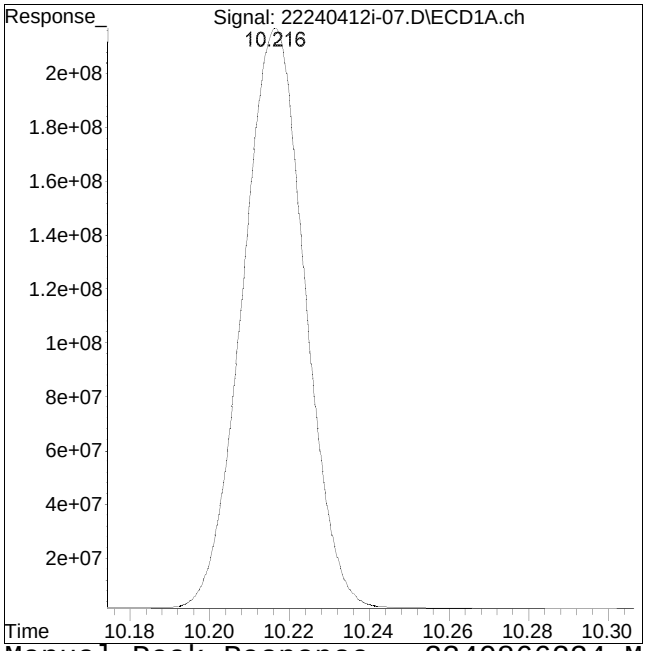
Original Peak Response = 644994566 Manual Peak Response = 625478167 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-07.D Operator : pest22:peg
Date Inj'd : 4/12/2024 8:08 am Instrument : Pest22
Sample : il6herb,42e,,pp11459 L2/20Quant Date : 4/12/2024 8:47 am

Compound #12: Dinoseb



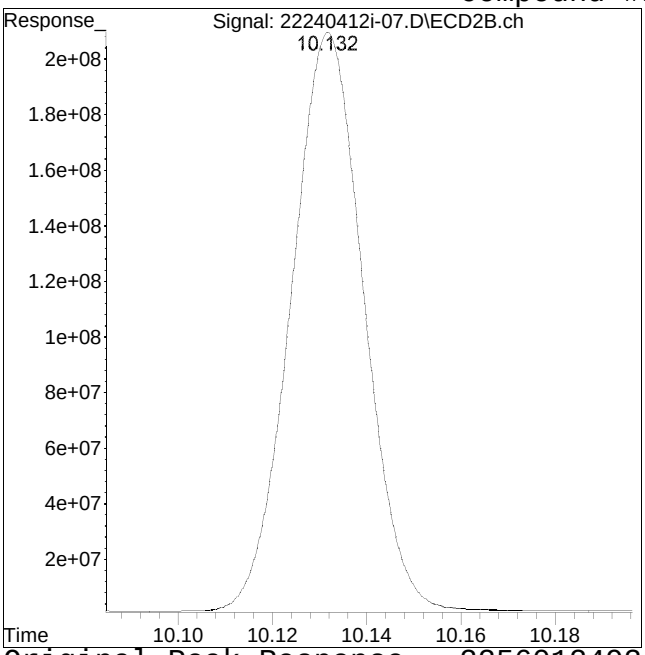


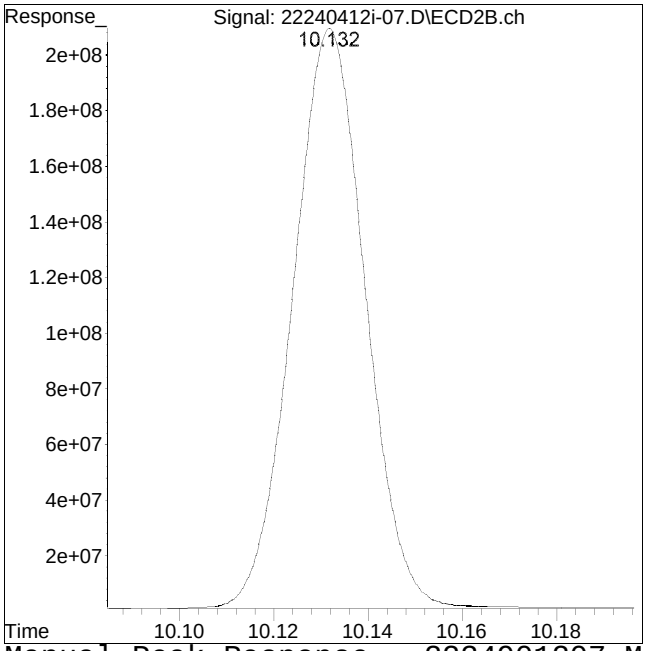
Original Peak Response = 2379199122 Manual Peak Response = 2340866234 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-07.D Operator : pest22:peg
Date Inj'd : 4/12/2024 8:08 am Instrument : Pest22
Sample : il6herb,42e,,pp11459 L2/20Quant Date : 4/12/2024 8:47 am

Compound #25: Dinoseb #2





Original Peak Response = 2256012493 Manual Peak Response = 2234901207 M4
M4 = Poor automated baseline construction.

Initial Calibration Verification

Evaluate Continuing Calibration Report

Data Path : I:\PEST\Pest22\2024\240412ical\
Data File : 22240412i-08.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On   : 12 Apr 2024 08:26 am
Operator : pest22:peg
Sample   : cicv,42e,,pp11458 L0.2/20ICV
Misc   : wg1907956, (Sig #1); ical (Sig #2)
ALS Vial : 8   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Apr 12 09:48:59 2024
Quant Method : I:\PEST\Pest22\2024\240412ical\Herb22_2024_04_12_mgL_ICAL.m
Quant Title : herb
QLast Update : Fri Apr 12 09:48:27 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 15%   Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(Min)
1	i	4,4'-DBOB	1.000	1.000	0.0	94	0.00
2	t	Dalapon	0.211	0.196	7.1	85	0.00
3	s	DCAA (surrogate)	0.206	0.200	2.9	87	0.00
4	t	Dicamba	0.589	0.576	2.2	87	0.00
5	t	MCPP	0.00052	0.00055	-5.8	95	0.00
6	t	MCPA	0.00097	0.00099	-2.1	91	0.00
7	t	Dichloroprop	0.193	0.207	-7.3	94	0.00
8	t	2,4-D	0.240	0.235	2.1	87	0.00
9	t	2,4,5-TP (Silvex)	0.868	0.842	3.0	86	0.00
10	t	2,4,5-T	0.853	0.840	1.5	88	0.00
11	t	2,4-DB	0.132	0.130	1.5	87	0.00
12	t	Dinoseb	0.493	0.485	1.6	88	0.00

Signal #2

1	i	4,4'-DBOB	1.000	1.000	0.0	92	0.00
2	t	Dalapon	0.197	0.193	2.0	88	0.00
3	s	DCAA (surrogate)	0.203	0.214	-5.4	93	0.00
4	t	Dicamba	0.594	0.597	-0.5	90	0.00
5	t	MCPP	0.00074	0.00075	-1.4	93	0.00
6	t	MCPA	0.00124	0.00126	-1.6	91	0.00
7	t	Dichloroprop	0.192	0.215	-12.0	99	0.00
8	t	2,4-D	0.237	0.244	-3.0	93	0.00
9	t	2,4,5-TP (Silvex)	0.856	0.860	-0.5	89	0.00
10	t	2,4,5-T	0.831	0.853	-2.6	92	0.00
11	t	2,4-DB	0.141	0.139	1.4	89	0.00
12	t	Dinoseb	0.491	0.506	-3.1	93	0.00

Evaluate Continuing Calibration Report - Not Founds

Evaluate Continuing Calibration Report

Data Path : I:\PEST\Pest22\2024\240412ical\
Data File : 22240412i-08.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On   : 12 Apr 2024 08:26 am
Operator : pest22:peg
Sample   : cicv,42e,,pp11458 L0.2/20ICV
Misc   : wg1907956, (Sig #1); ical (Sig #2)
ALS Vial : 8   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Apr 12 09:48:59 2024
Quant Method : I:\PEST\Pest22\2024\240412ical\Herb22_2024_04_12_mgL_ICAL.m
Quant Title : herb
QLast Update : Fri Apr 12 09:48:27 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 15%   Max. Rel. Area : 150%

Compound	AvgRF	CCRF	%Dev	Area% Dev(Min)

Signal #2

---

* Evaluation of CC level amount vs concentration.
(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest22\2024\240412ical\
Data File : 22240412i-08.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 12 Apr 2024 08:26 am
Operator : pest22:peg
Sample : cicv,42e,,pp11458 L0.2/20ICV
Misc : wg1907956, (Sig #1); ical (Sig #2)
ALS Vial : 8 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Apr 12 09:48:59 2024
Quant Method : I:\PEST\Pest22\2024\240412ical\Herb22_2024_04_12_mgL_ICAL.m
Quant Title : herb
QLast Update : Fri Apr 12 09:48:27 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

		Compound	RT#1	RT#2	Resp#1	Resp#2	mg/l	mg/l
		Internal Standards						
1)	i	4,4'-DBOB	8.572	8.564	710.4E6	646.1E6	0.250M4	0.250M4
		System Monitoring Compounds						
3)	s	DCAA (surrog	7.026	7.495	106.7E6	103.8E6	0.183M4	0.198M4
		Spiked Amount	0.500	Range 30 - 150		Recovery =	36.60%	39.60%
		Target Compounds						
2)	t	Dalapon	2.422	2.418	101.5E6	90678734	0.169	0.178M3
4)	t	Dicamba	7.211	7.676	307.7E6	290.1E6	0.184M4	0.189M3
5)	t	MCPP	7.413	7.788	29475629	36477309	19.908M4	19.176M4
6)	t	MCPA	7.559	8.013	52248199	60587732	19.021M4	18.909M4
7)	t	Dichloroprop	7.914	8.330	110.5E6	104.6E6	0.201	0.211M4
8)	t	2,4-D	8.122	8.602	125.3E6	118.5E6	0.184M4	0.193M4
9)	t	2,4,5-TP (Si	8.839	9.260	454.6E6	422.4E6	0.184M4	0.191M4
10)	t	2,4,5-T	9.055	9.546	453.6E6	418.6E6	0.187M4	0.195
11)	t	2,4-DB	9.462	9.906	70895673	69153610	0.189M4	0.190M4
12)	t	Dinoseb	10.216	10.131	261.6E6	248.6E6	0.187M4	0.196

SemiQuant Compounds - Not Calibrated on this Instrument

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest22\2024\240412ical\
Data File : 22240412i-08.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 12 Apr 2024 08:26 am
Operator : pest22:peg
Sample : cicv,42e,,pp11458 L0.2/20ICV
Misc : wg1907956, (Sig #1); ical (Sig #2)
ALS Vial : 8 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Apr 12 09:48:59 2024
Quant Method : I:\PEST\Pest22\2024\240412ical\Herb22_2024_04_12_mgL_ICAL.m
Quant Title : herb
QLast Update : Fri Apr 12 09:48:27 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	mg/l	mg/l

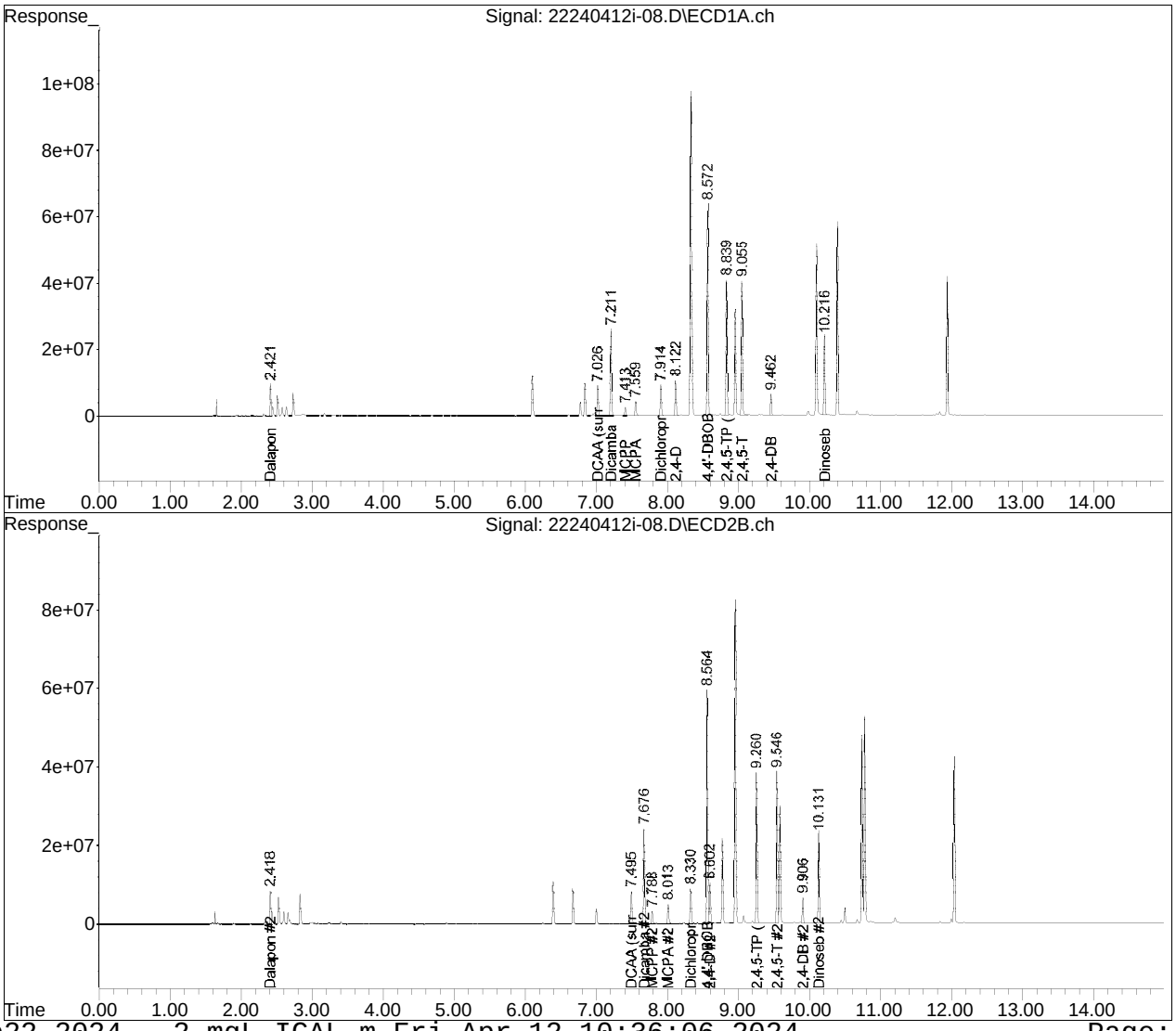
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest22\2024\240412ical\
Data File : 22240412i-08.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 12 Apr 2024 08:26 am
Operator : pest22:peg
Sample : cicv,42e,,pp11458 L0.2/20ICV
Misc : wg1907956, (Sig #1); ical (Sig #2)
ALS Vial : 8 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Apr 12 09:48:59 2024
Quant Method : I:\PEST\Pest22\2024\240412ical\Herb22_2024_04_12_mgL_ICAL.m
Quant Title : herb
QLast Update : Fri Apr 12 09:48:27 2024
Response via : Initial Calibration
Integrator: ChemStation

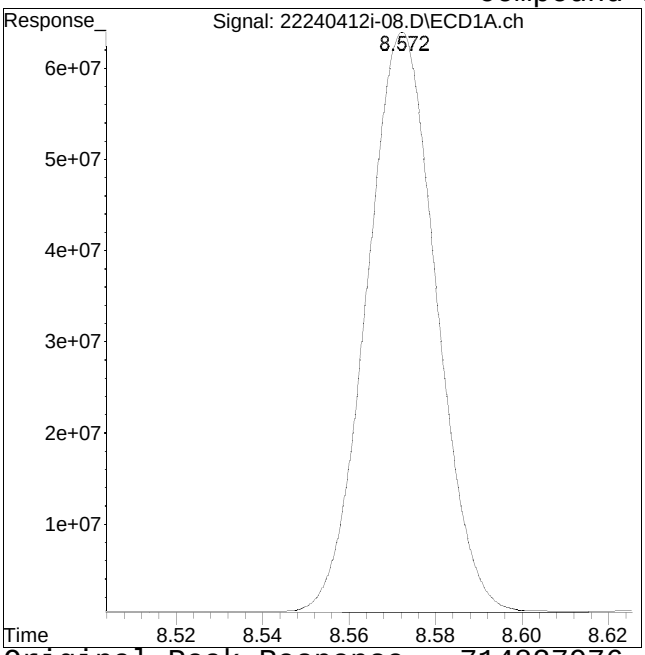
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

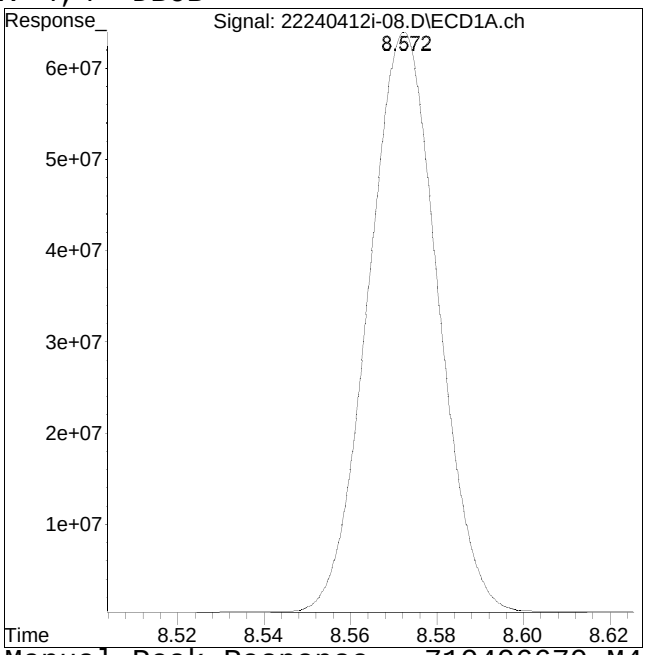


Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-08.D Operator : pest22:peg
Date Inj'd : 4/12/2024 8:26 am Instrument : Pest22
Sample : cicv,42e,,pp11458 L0.2/20IQuant Date : 4/12/2024 9:48 am

Compound #1: 4,4'-DBOB



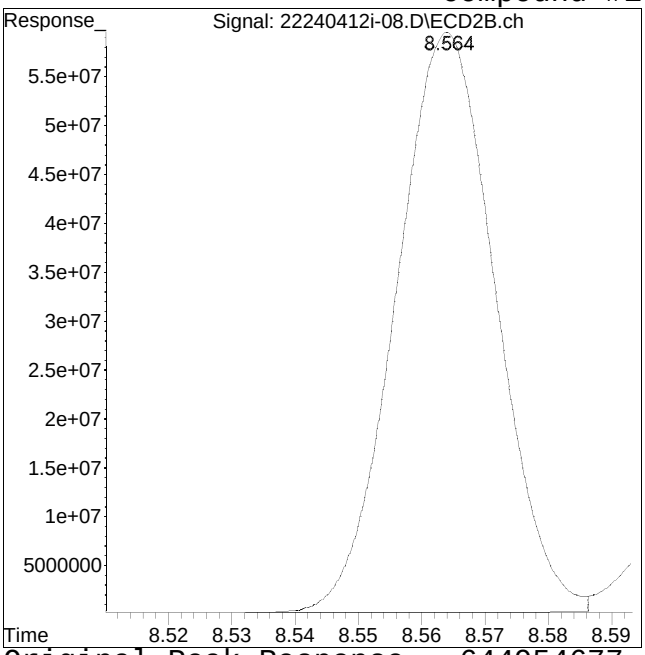


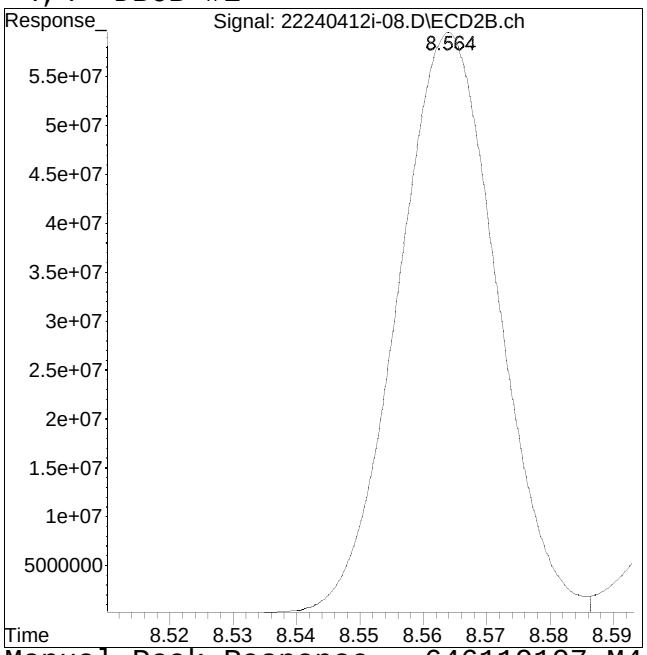
Original Peak Response = 714827976 Manual Peak Response = 710406670 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-08.D Operator : pest22:peg
Date Inj'd : 4/12/2024 8:26 am Instrument : Pest22
Sample : cicv,42e,,pp11458 L0.2/20IQuant Date : 4/12/2024 9:48 am

Compound #14: 4,4'-DBOB #2



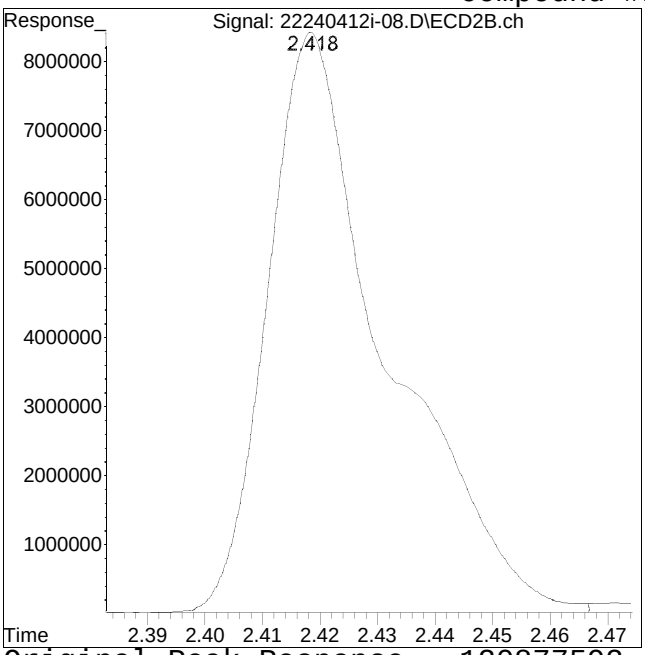


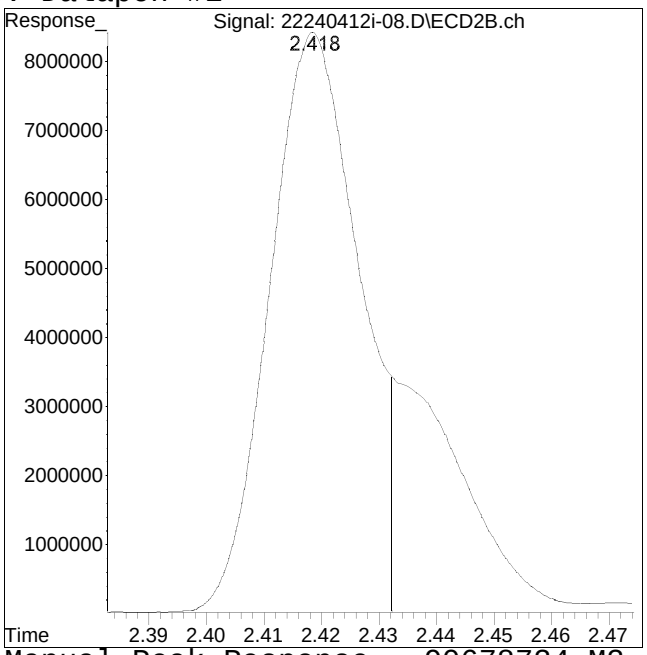
Original Peak Response = 644954677 Manual Peak Response = 646119107 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-08.D Operator : pest22:peg
Date Inj'd : 4/12/2024 8:26 am Instrument : Pest22
Sample : cicv,42e,,pp11458 L0.2/20IQuant Date : 4/12/2024 9:48 am

Compound #15: Dalapon #2



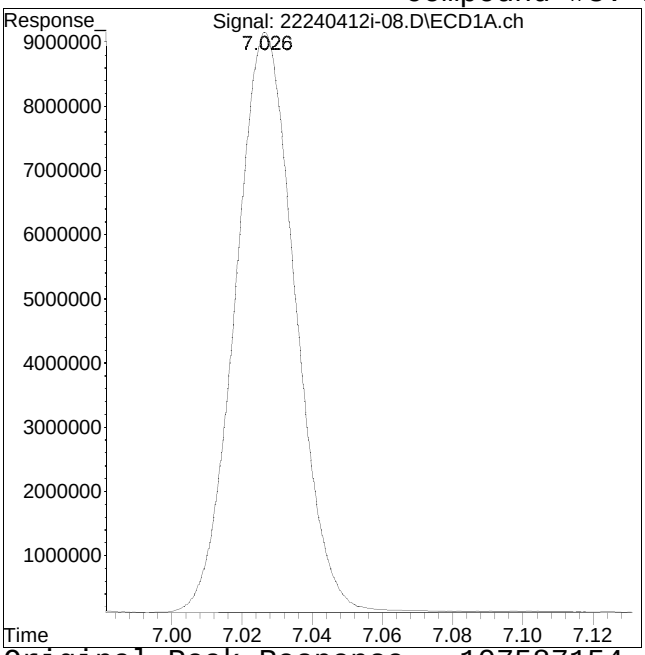


Original Peak Response = 120877592 Manual Peak Response = 90678734 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

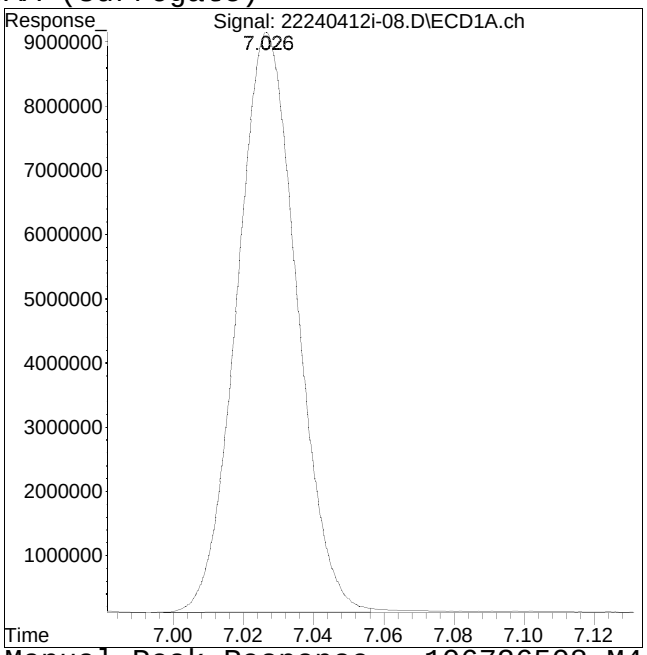
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-08.D Operator : pest22:peg
Date Inj'd : 4/12/2024 8:26 am Instrument : Pest22
Sample : cicv,42e,,pp11458 L0.2/20IQuant Date : 4/12/2024 9:48 am

Compound #3: DCAA (surrogate)



Original Peak Response = 107587154

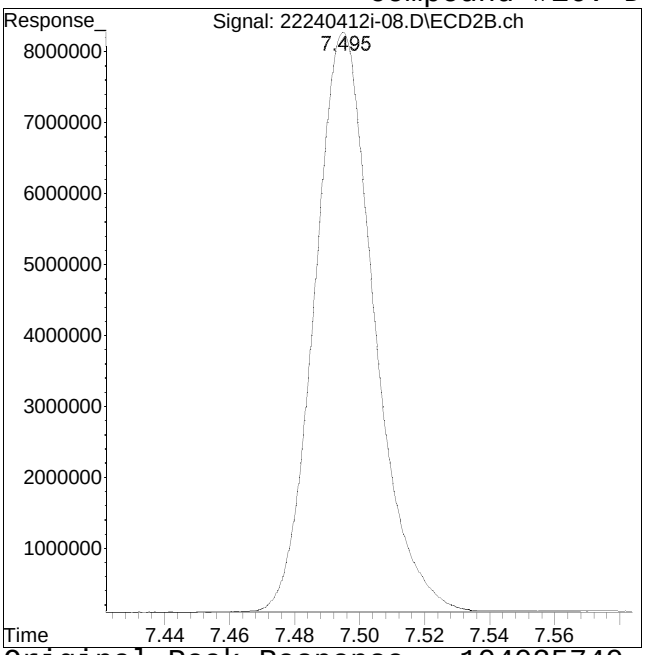


Manual Peak Response = 106726508 M4
M4 = Poor automated baseline construction.

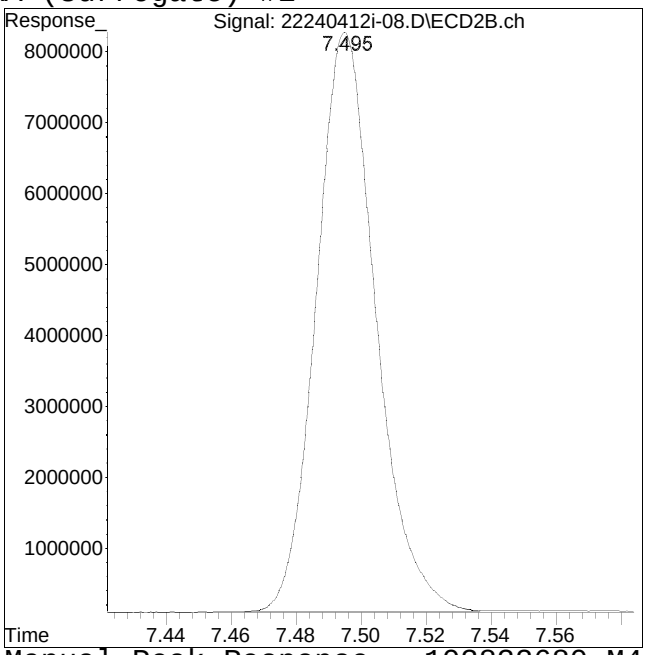
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-08.D Operator : pest22:peg
Date Inj'd : 4/12/2024 8:26 am Instrument : Pest22
Sample : cicv,42e,,pp11458 L0.2/20IQuant Date : 4/12/2024 9:48 am

Compound #16: DCAA (surrogate) #2



Original Peak Response = 104025740

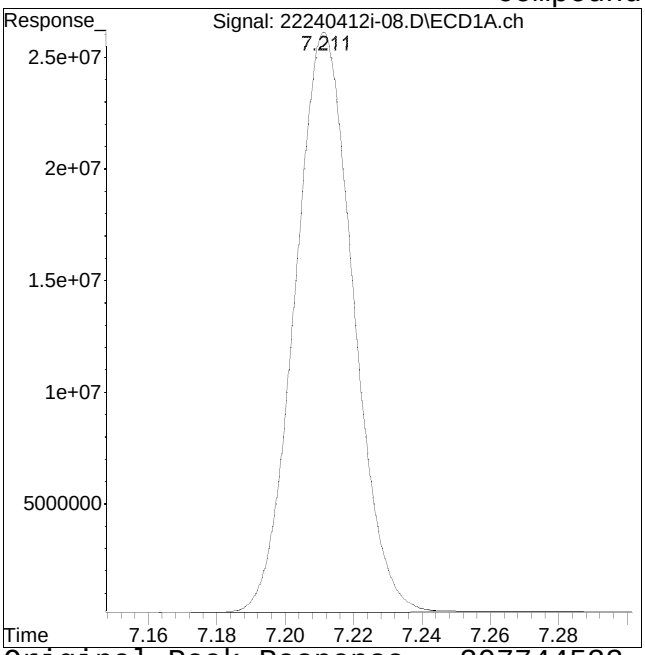


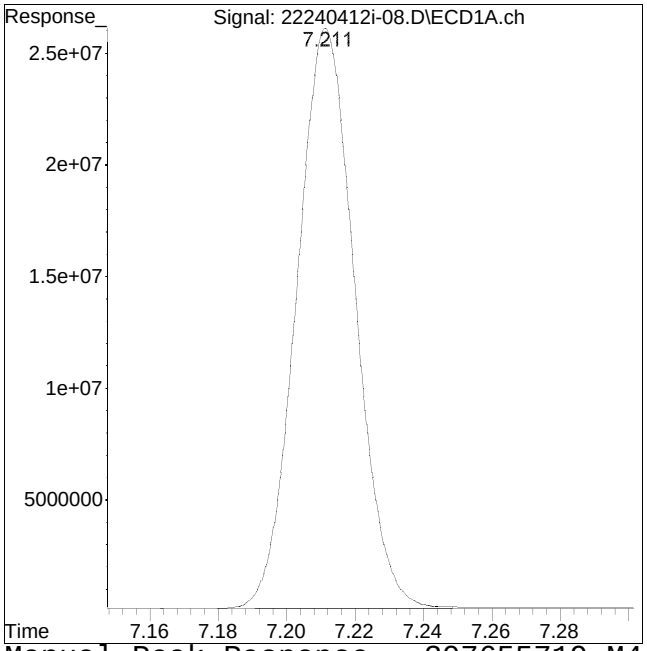
Manual Peak Response = 103832680 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-08.D Operator : pest22:peg
Date Inj'd : 4/12/2024 8:26 am Instrument : Pest22
Sample : cicv,42e,,pp11458 L0.2/20IQuant Date : 4/12/2024 9:48 am

Compound #4: Dicamba



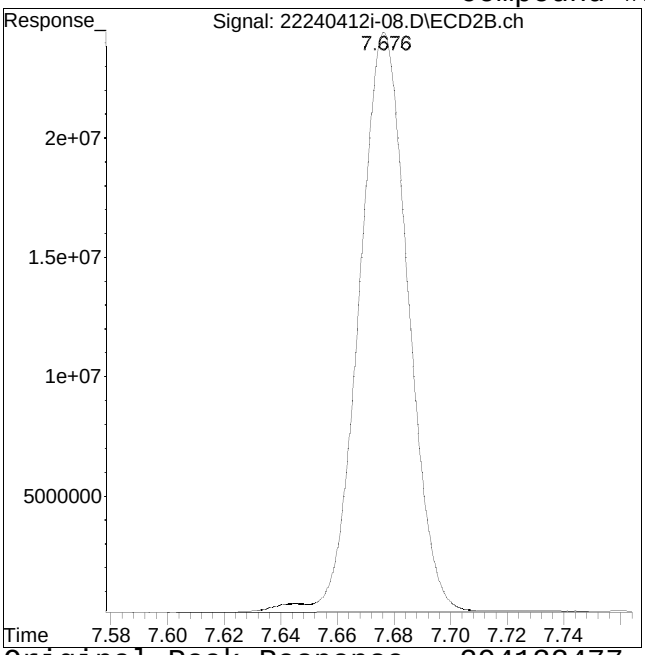


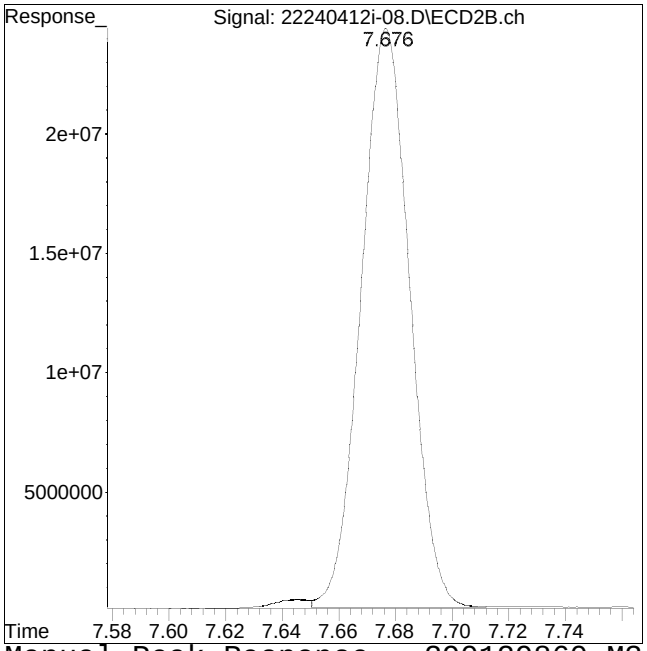
Original Peak Response = 307744533 Manual Peak Response = 307655719 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-08.D Operator : pest22:peg
Date Inj'd : 4/12/2024 8:26 am Instrument : Pest22
Sample : cicv,42e,,pp11458 L0.2/20IQuant Date : 4/12/2024 9:48 am

Compound #17: Dicamba #2



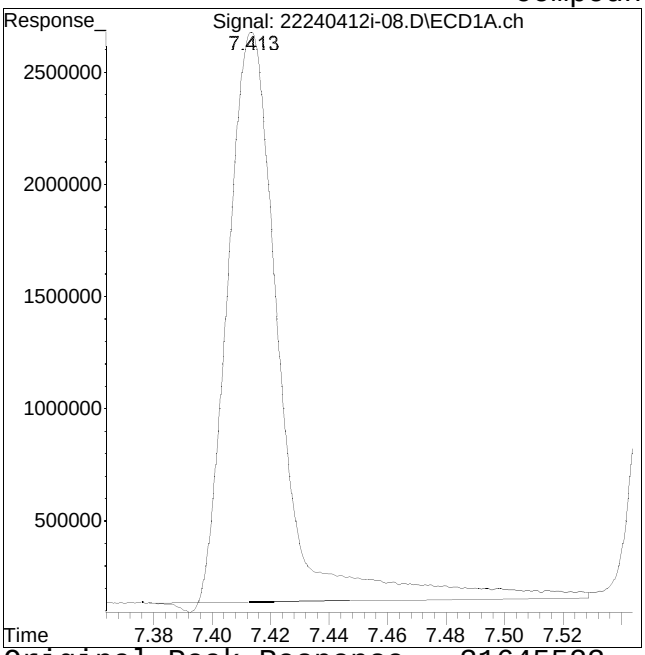


Original Peak Response = 294132477 Manual Peak Response = 290129860 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

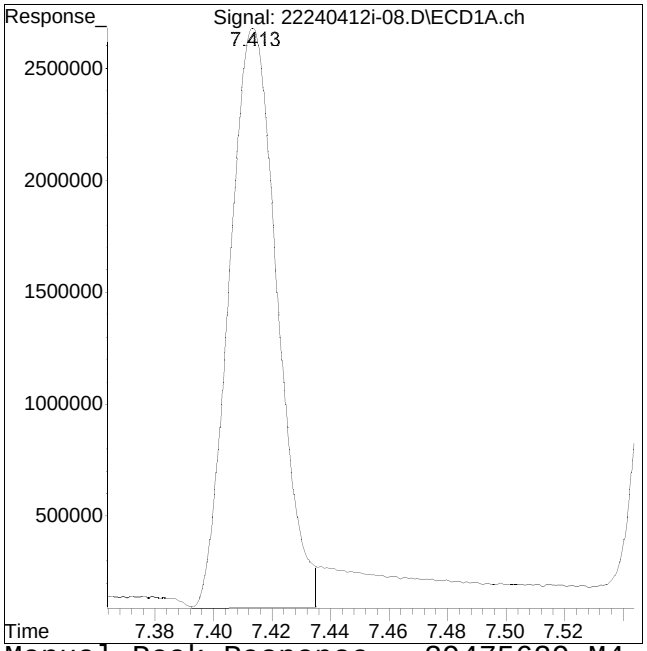
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-08.D Operator : pest22:peg
Date Inj'd : 4/12/2024 8:26 am Instrument : Pest22
Sample : cicv,42e,,pp11458 L0.2/20IQuant Date : 4/12/2024 9:48 am

Compound #5: MCPP



Original Peak Response = 31645523



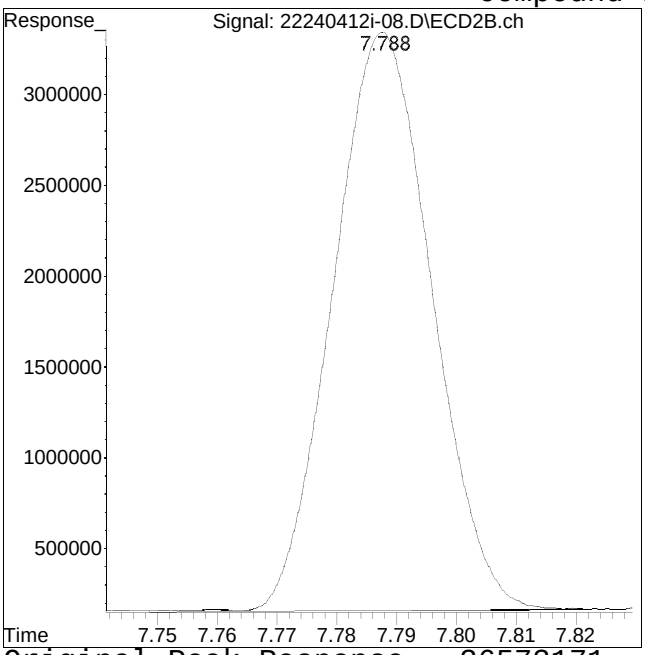
Manual Peak Response = 29475629 M4

M4 = Poor automated baseline construction.

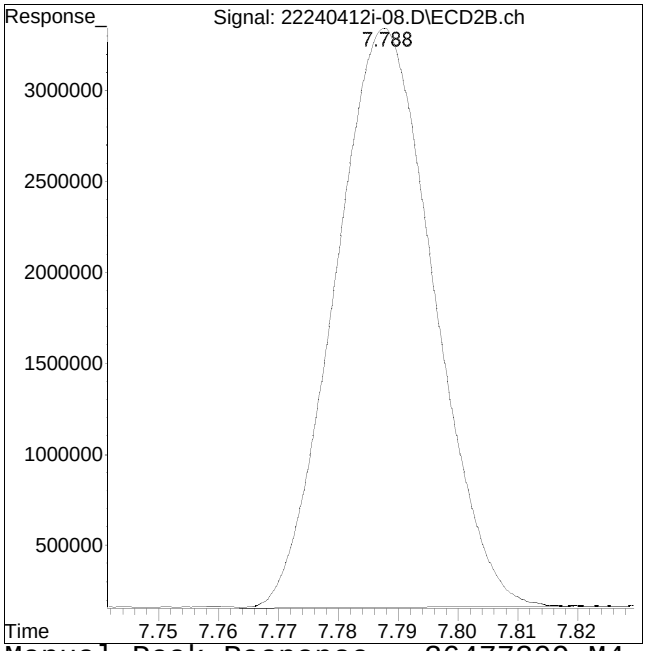
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-08.D Operator : pest22:peg
Date Inj'd : 4/12/2024 8:26 am Instrument : Pest22
Sample : cicv,42e,,pp11458 L0.2/20IQuant Date : 4/12/2024 9:48 am

Compound #18: MCPP #2



Original Peak Response = 36573171



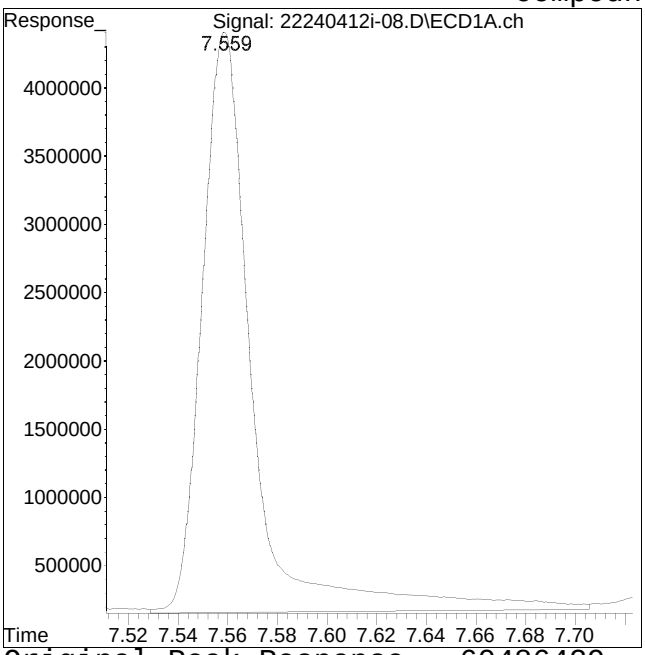
Manual Peak Response = 36477309 M4

M4 = Poor automated baseline construction.

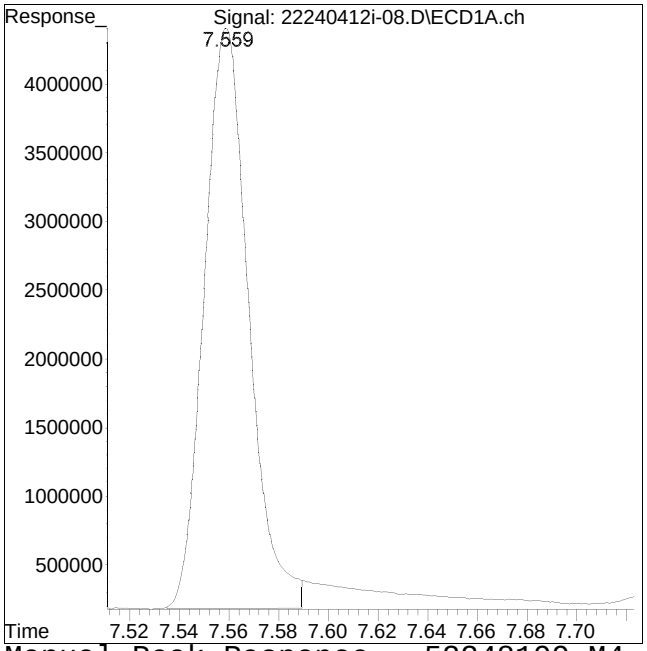
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-08.D Operator : pest22:peg
Date Inj'd : 4/12/2024 8:26 am Instrument : Pest22
Sample : cicv,42e,,pp11458 L0.2/20IQuant Date : 4/12/2024 9:48 am

Compound #6: MCPA



Original Peak Response = 60486429



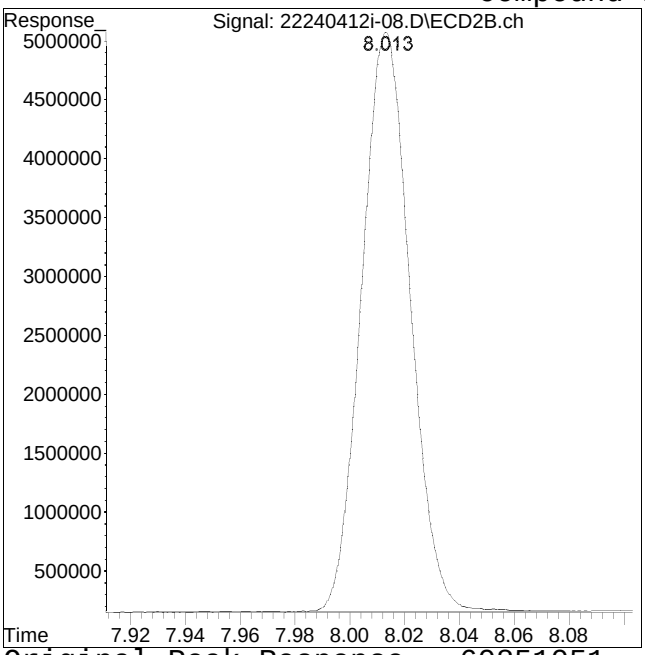
Manual Peak Response = 52248199 M4

M4 = Poor automated baseline construction.

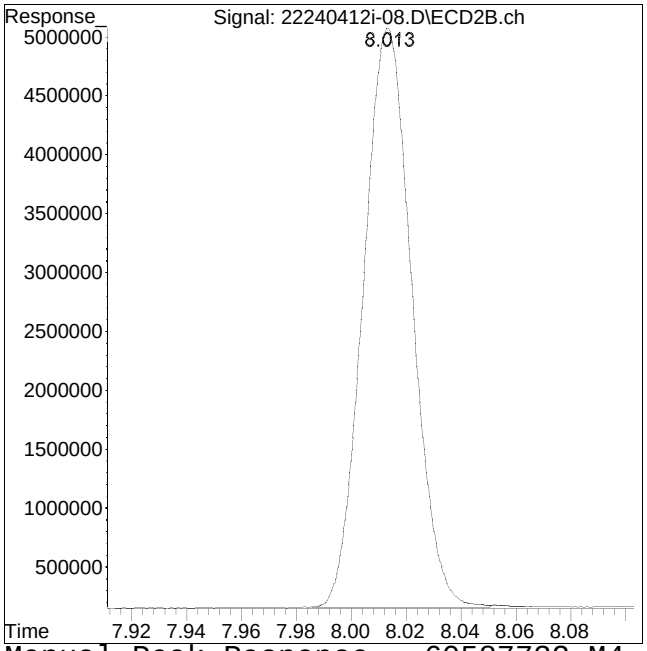
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-08.D Operator : pest22:peg
Date Inj'd : 4/12/2024 8:26 am Instrument : Pest22
Sample : cicv,42e,,pp11458 L0.2/20IQuant Date : 4/12/2024 9:48 am

Compound #19: MCPA #2



Original Peak Response = 60851051



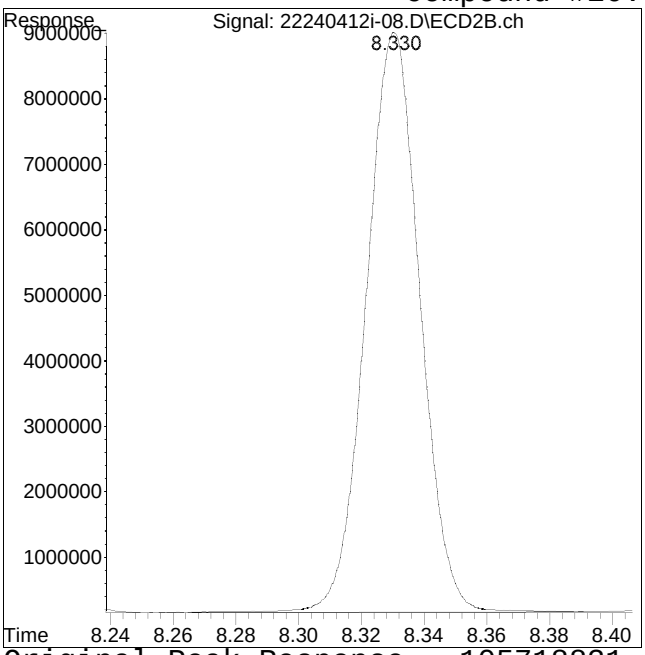
Manual Peak Response = 60587732 M4

M4 = Poor automated baseline construction.

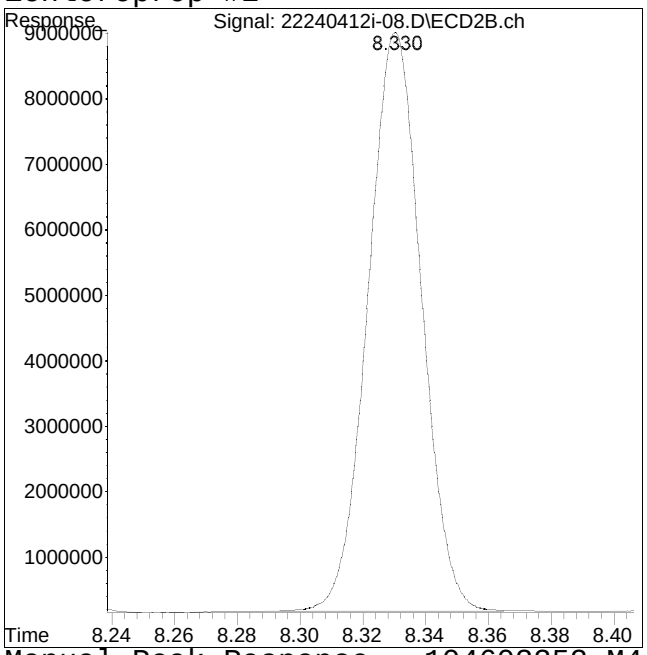
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-08.D Operator : pest22:peg
Date Inj'd : 4/12/2024 8:26 am Instrument : Pest22
Sample : cicv,42e,,pp11458 L0.2/20IQuant Date : 4/12/2024 9:48 am

Compound #20: Dichloroprop #2



Original Peak Response = 105718831

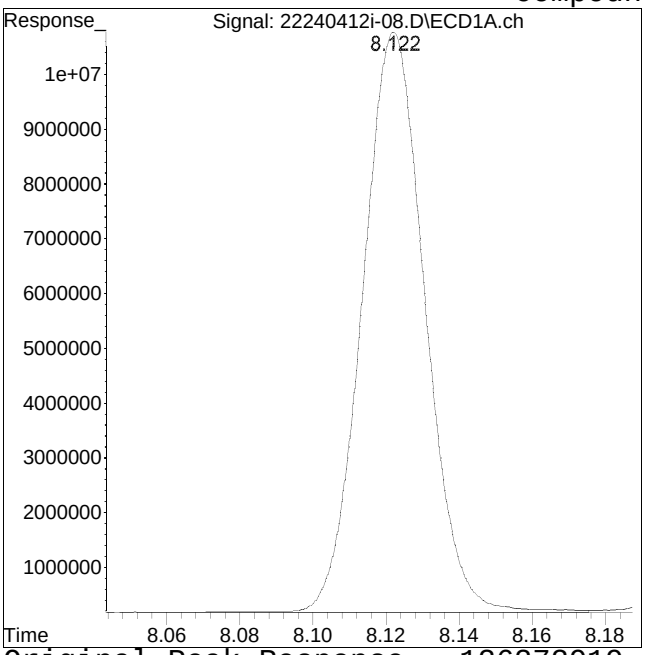


Manual Peak Response = 104603352 M4
M4 = Poor automated baseline construction.

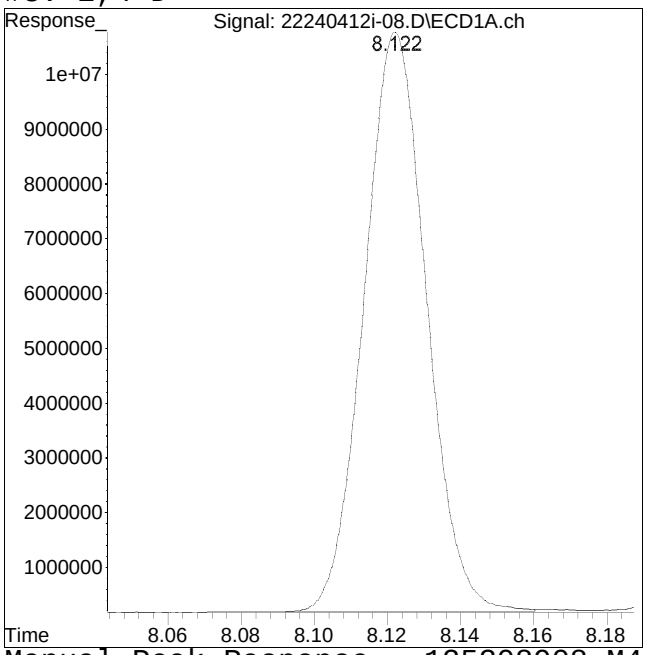
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-08.D Operator : pest22:peg
Date Inj'd : 4/12/2024 8:26 am Instrument : Pest22
Sample : cicv,42e,,pp11458 L0.2/20IQuant Date : 4/12/2024 9:48 am

Compound #8: 2,4-D



Original Peak Response = 126272919

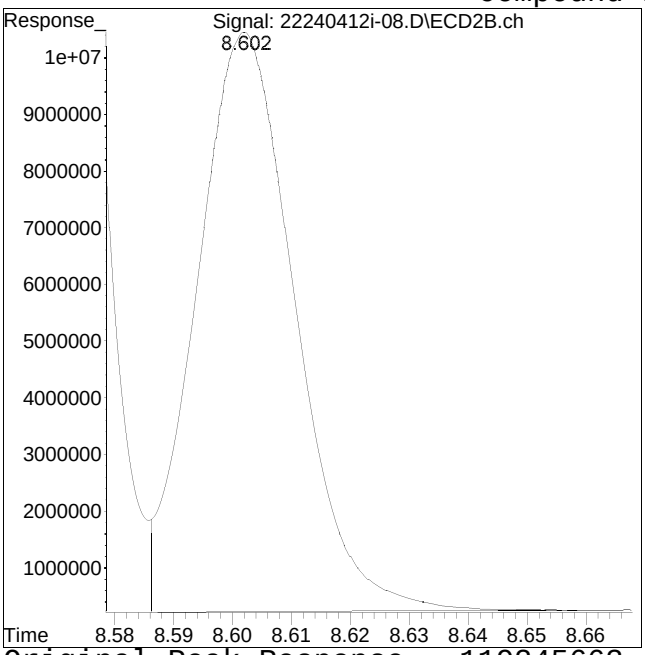


Manual Peak Response = 125308908 M4
M4 = Poor automated baseline construction.

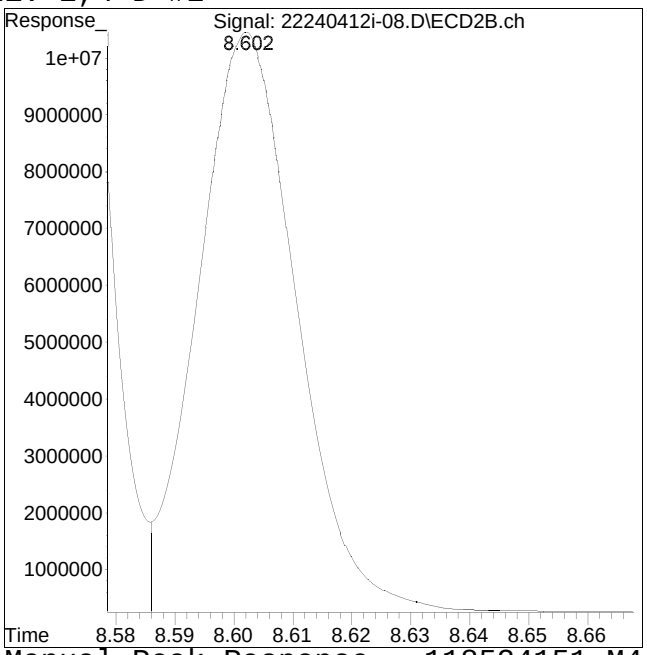
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-08.D Operator : pest22:peg
Date Inj'd : 4/12/2024 8:26 am Instrument : Pest22
Sample : cicv,42e,,pp11458 L0.2/20IQuant Date : 4/12/2024 9:48 am

Compound #21: 2,4-D #2



Original Peak Response = 119245663

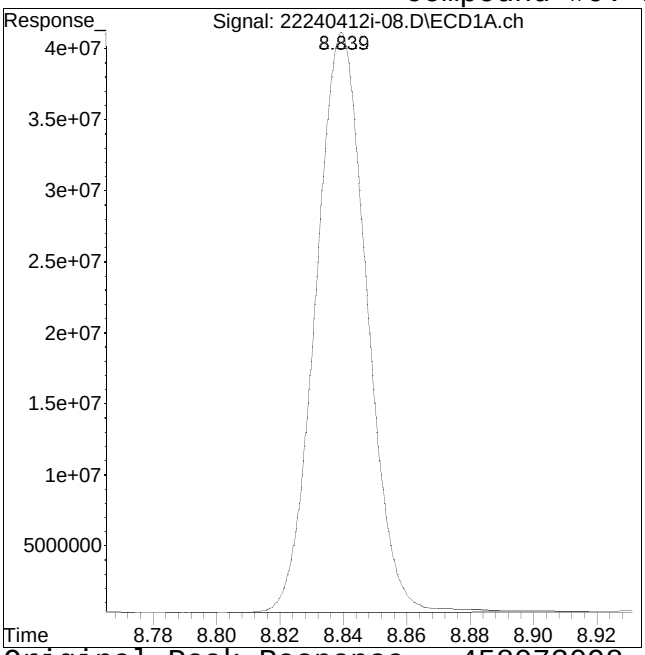


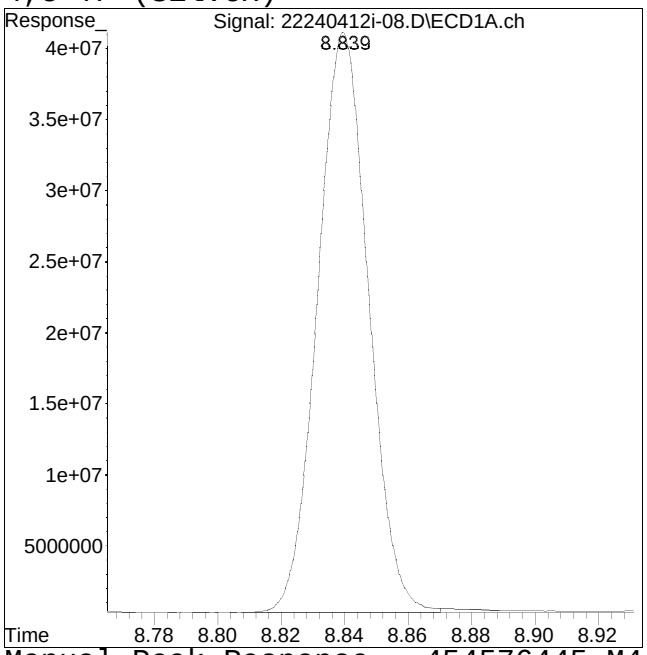
Manual Peak Response = 118524151 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-08.D Operator : pest22:peg
Date Inj'd : 4/12/2024 8:26 am Instrument : Pest22
Sample : cicv,42e,,pp11458 L0.2/20IQuant Date : 4/12/2024 9:48 am

Compound #9: 2,4,5-TP (Silvex)



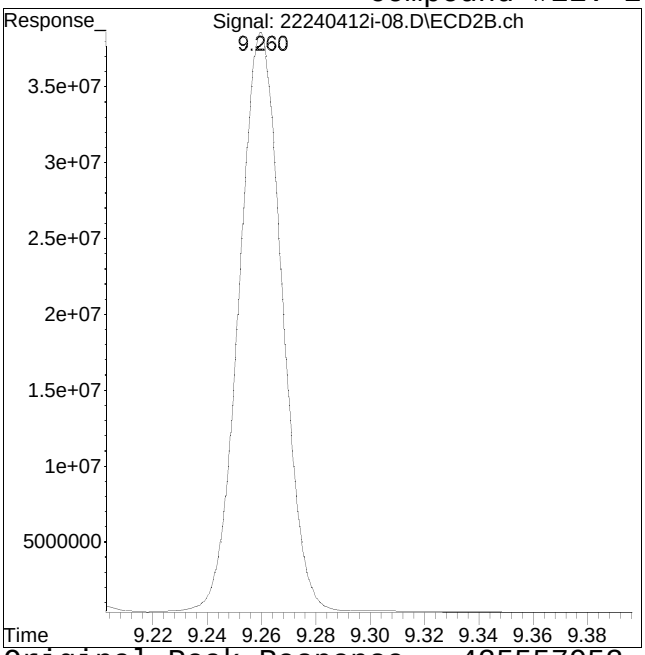


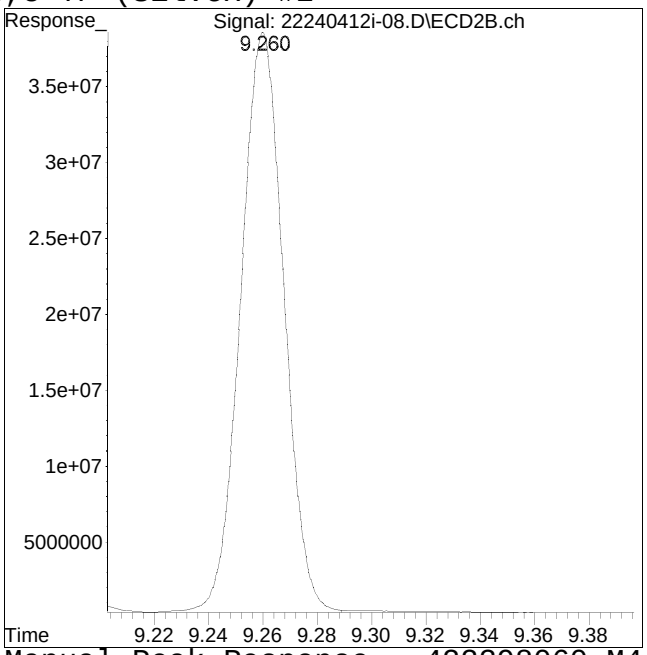
Original Peak Response = 458073098 Manual Peak Response = 454576445 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-08.D Operator : pest22:peg
Date Inj'd : 4/12/2024 8:26 am Instrument : Pest22
Sample : cicv,42e,,pp11458 L0.2/20IQuant Date : 4/12/2024 9:48 am

Compound #22: 2,4,5-TP (Silvex) #2



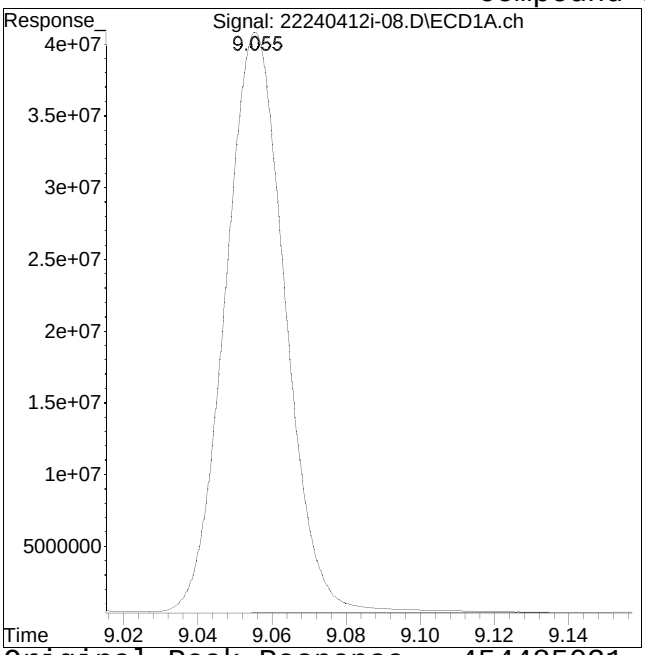


Original Peak Response = 425557953 Manual Peak Response = 422398060 M4
M4 = Poor automated baseline construction.

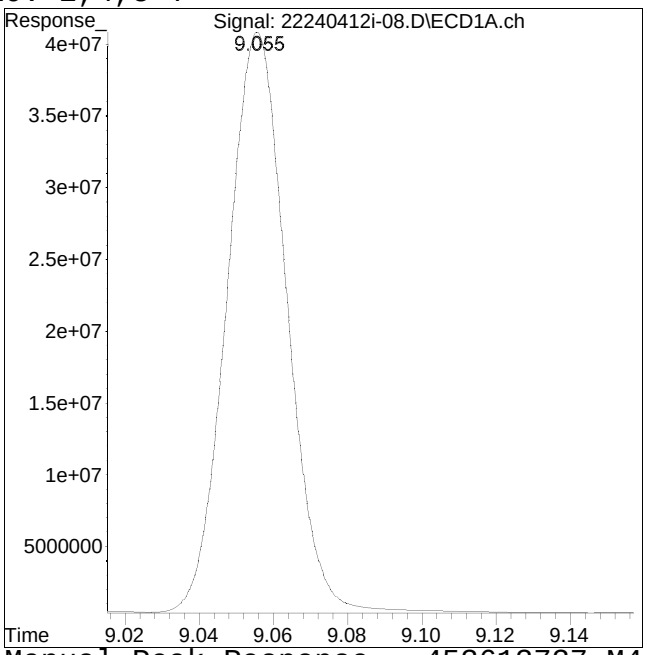
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-08.D Operator : pest22:peg
Date Inj'd : 4/12/2024 8:26 am Instrument : Pest22
Sample : cicv,42e,,pp11458 L0.2/20IQuant Date : 4/12/2024 9:48 am

Compound #10: 2,4,5-T



Original Peak Response = 454485031



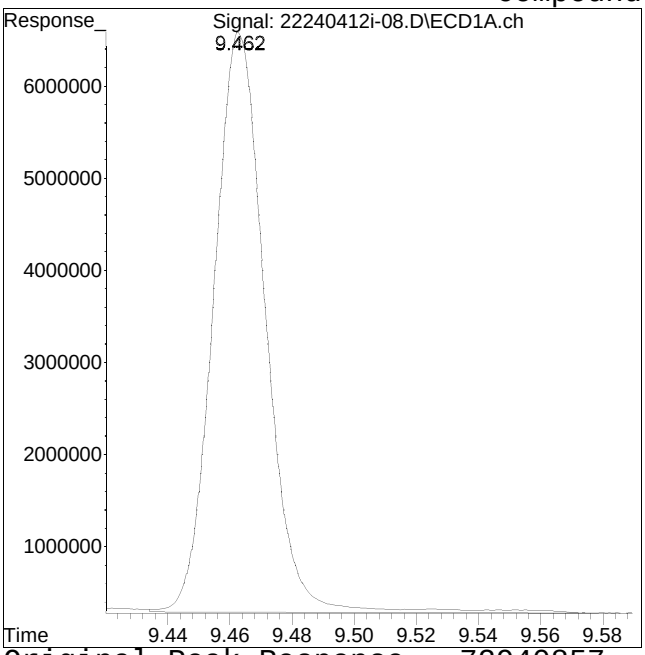
Manual Peak Response = 453613737 M4

M4 = Poor automated baseline construction.

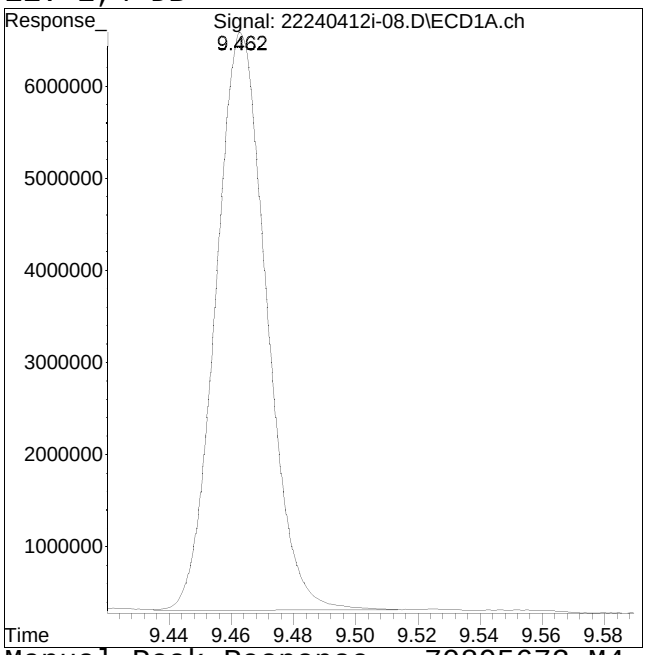
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-08.D Operator : pest22:peg
Date Inj'd : 4/12/2024 8:26 am Instrument : Pest22
Sample : cicv,42e,,pp11458 L0.2/20IQuant Date : 4/12/2024 9:48 am

Compound #11: 2,4-DB



Original Peak Response = 72940857



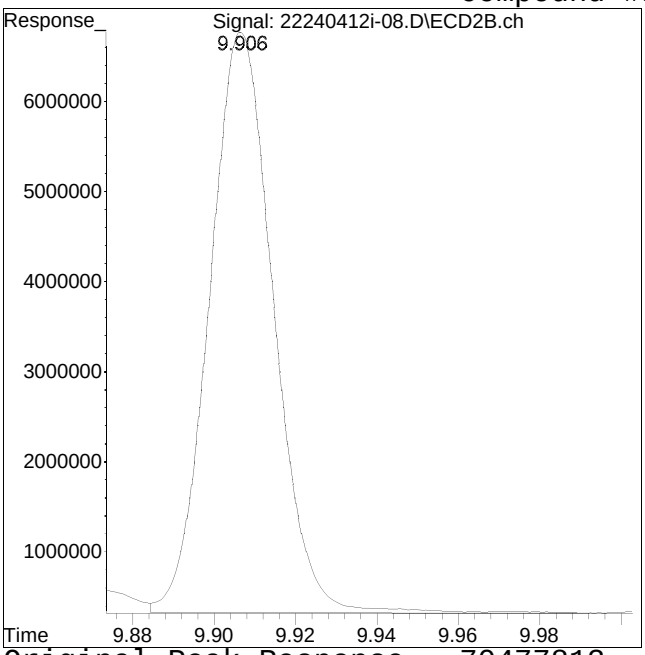
Manual Peak Response = 70895673 M4

M4 = Poor automated baseline construction.

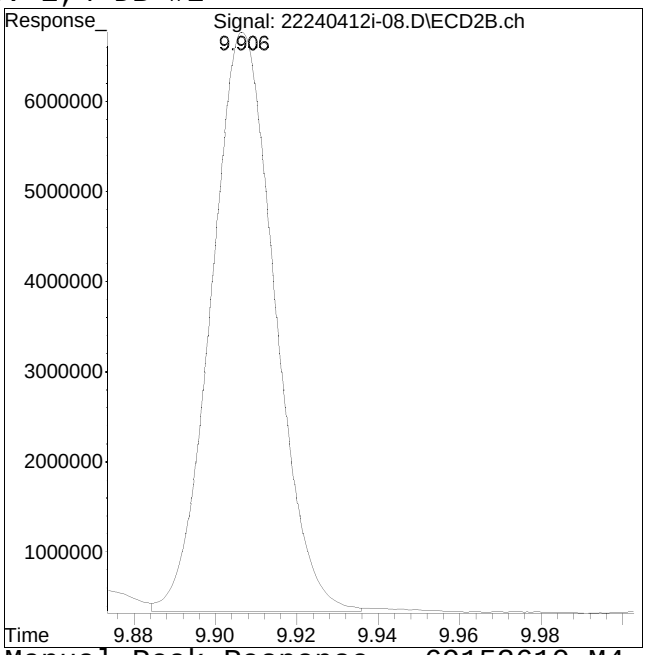
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-08.D Operator : pest22:peg
Date Inj'd : 4/12/2024 8:26 am Instrument : Pest22
Sample : cicv,42e,,pp11458 L0.2/20IQuant Date : 4/12/2024 9:48 am

Compound #24: 2,4-DB #2



Original Peak Response = 70477813



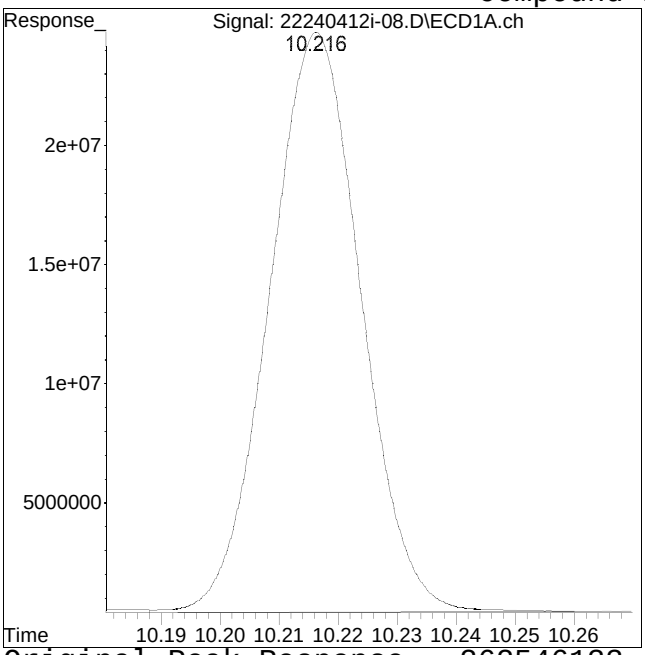
Manual Peak Response = 69153610 M4

M4 = Poor automated baseline construction.

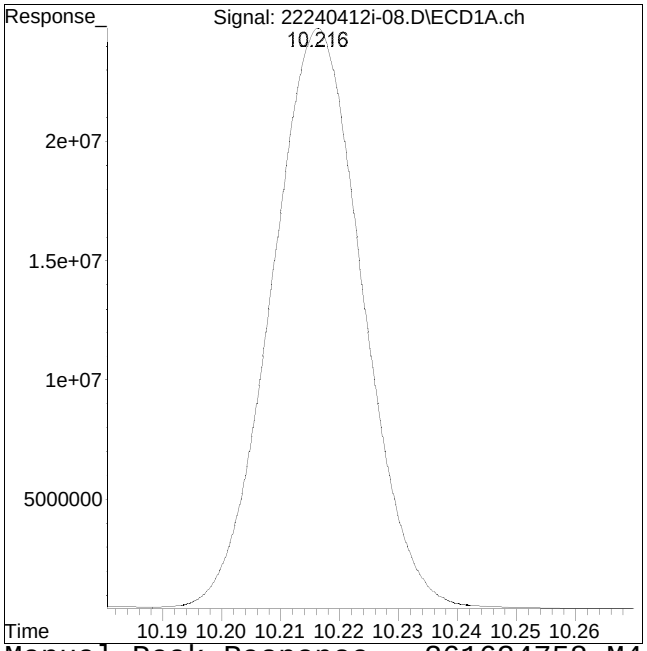
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240412QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240412i-08.D Operator : pest22:peg
Date Inj'd : 4/12/2024 8:26 am Instrument : Pest22
Sample : cicv,42e,,pp11458 L0.2/20IQuant Date : 4/12/2024 9:48 am

Compound #12: Dinoseb



Original Peak Response = 262546133



Manual Peak Response = 261634758 M4

M4 = Poor automated baseline construction.

Response Factor Report PEST16

Method Path : I:\PCB\Pest16\2024\240521ical\
Method File : Herb16_2024_05_21_ICAL.m
Title : herb
Last Update : Thu May 23 16:34:29 2024
Response Via : Initial Calibration

Calibration Files
1 =16240521i-02.D 2 =16240521i-03.D 3 =16240521i-04.D 4 =16240521i-05.D 5 =16240521i-06.D
6 =16240521i-07.D

		Compound	1	2	3	4	5	6		Avg	%RSD
1)	i	4,4'-DBOB	----------ISTD----------								
2)	t	Dalapon	0.185	0.167	0.151	0.144	0.144	0.140	*L		0.9999
3)	s	DCAA (surrogate)	0.107	0.095	0.086	0.079	0.075	0.072	*L		0.9992
4)	t	Dicamba	0.435	0.398	0.386	0.380	0.378	0.382		0.393	5.53
5)	t	MCPP		0.000	0.000	0.000	0.000	0.000	*L		0.9975
6)	t	MCPA		0.000	0.000	0.000	0.000	0.000	*L		0.9980
7)	t	Dichloroprop	0.138	0.120	0.112	0.103	0.098	0.096		0.111	14.43
8)	t	2,4-D	0.159	0.143	0.133	0.124	0.118	0.117		0.132	12.37
9)	t	2,4,5-TP (Sil...	0.804	0.774	0.772	0.777	0.772	0.797		0.783	1.81
10)	t	2,4,5-T	0.700	0.678	0.672	0.675	0.674	0.700		0.683	1.93
11)	t	2,4-DB	0.065	0.067	0.066	0.064	0.063	0.065		0.065	2.21
12)	t	Dinoseb	0.537	0.503	0.498	0.496	0.493	0.513		0.507	3.28

Signal #2 Calibration Files
1 =16240521i-02.D 2 =16240521i-03.D 3 =16240521i-04.D 4 =16240521i-05.D 5 =16240521i-06.D
6 =16240521i-07.D

		Compound	1	2	3	4	5	6		Avg	%RSD
1)	i	4,4'-DBOB	----------ISTD----------								
2)	t	Dalapon	0.229	0.212	0.187	0.173	0.164	0.153	*L		0.9981
3)	s	DCAA (surrogate)	0.243	0.214	0.194	0.172	0.159	0.149	*L		0.9974
4)	t	Dicamba	0.686	0.616	0.575	0.524	0.497	0.480		0.563	13.95
5)	t	MCPP		0.001	0.001	0.001	0.001	0.001	*L		0.9934
6)	t	MCPA		0.002	0.002	0.002	0.001	0.001	*L		0.9915
7)	t	Dichloroprop	0.214	0.194	0.180	0.162	0.151	0.145		0.174	15.28
8)	t	2,4-D	0.271	0.238	0.220	0.200	0.188	0.184		0.217	15.44
9)	t	2,4,5-TP (Sil...	0.891	0.832	0.788	0.738	0.699	0.692		0.773	10.13
10)	t	2,4,5-T	0.760	0.723	0.703	0.671	0.649	0.667		0.696	5.98
11)	t	2,4-DB	0.124	0.120	0.114	0.112	0.107	0.107		0.114	5.81

Method Path : I:\PCB\Pest16\2024\240521ical\
Method File : Herb16_2024_05_21_ICAL.m
Title : herb
Last Update : Thu May 23 16:34:29 2024
Response Via : Initial Calibration

Calibration Files
1 =16240521i-02.D 2 =16240521i-03.D 3 =16240521i-04.D 4 =16240521i-05.D 5 =16240521i-06.D
6 =16240521i-07.D

	Compound	1	2	3	4	5	6	Avg	%RSD
12) t	Dinoseb	0.491	0.455	0.431	0.399	0.375	0.376	0.421	11.02

(#) = Out of Range

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest16\2024\240521ical\
Data File : 16240521i-02.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 21 May 2024 6:01 pm
Operator : pest16:jag
Sample : il1herb,42e,, pp11464 L0.005/5 (Sig #1); il1herb,42e,,pp 11464 L0.005/5 (Sig #2)
Misc : wg1925170,
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 24 09:12:25 2024
Quant Method : I:\PCB\Pest16\2024\240521ical\Herb16_2024_05_21_ICAL.m
Quant Title : herb
QLast Update : Fri May 24 09:12:25 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

		Compound	RT#1	RT#2	Resp#1	Resp#2	mg/l	mg/l
		Internal Standards						
1)	i	4,4'-DBOB	8.459	8.378	890.1E6	1257.3E6	0.250M4	0.250M4
		System Monitoring Compounds						
3)	s	DCAA (surrog	6.888	7.280	17960249	57400590	0.042M4	0.039M4
		Spiked Amount	0.500	Range 30 - 150		Recovery =	8.40%#	7.80%#
		Target Compounds						
2)	t	Dalapon	1.875	1.831	30016927	52435558	0.044M4	0.039M4
4)	t	Dicamba	7.072	7.459	72836761	162.1E6	0.052M4	0.057M4
5)	t	MCPP	7.281	7.579	3715880	36962621	2.531M4	0.524M3 D
6)	t	MCPA	7.428	7.809	7190611	62685479	2.480M4	N.D. M4 D
7)	t	Dichloroprop	7.788	8.131	23126495	50607312	0.058M4	0.058M4
8)	t	2,4-D	8.000	8.411	26669027	64113059	0.057M4	0.059M4
9)	t	2,4,5-TP (Si	8.731	9.083	135.9E6	212.7E6	0.049M4	0.055M4
10)	t	2,4,5-T	8.952	9.377	118.5E6	181.6E6	0.049M4	0.052M4
11)	t	2,4-DB	9.368	9.747	11151856	29859320	0.048M4	0.052M4
12)	t	Dinoseb	10.125	9.969	90879632	117.3E6	0.050M4	0.055M4

SemiQuant Compounds - Not Calibrated on this Instrument

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest16\2024\240521ical\
Data File : 16240521i-02.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 21 May 2024 6:01 pm
Operator : pest16:jag
Sample : il1herb,42e,, pp11464 L0.005/5 (Sig #1); il1herb,42e,,pp 11464 L0.005/5 (Sig #2)
Misc : wg1925170,
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 24 09:12:25 2024
Quant Method : I:\PCB\Pest16\2024\240521ical\Herb16_2024_05_21_ICAL.m
Quant Title : herb
QLast Update : Fri May 24 09:12:25 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	mg/l	mg/l

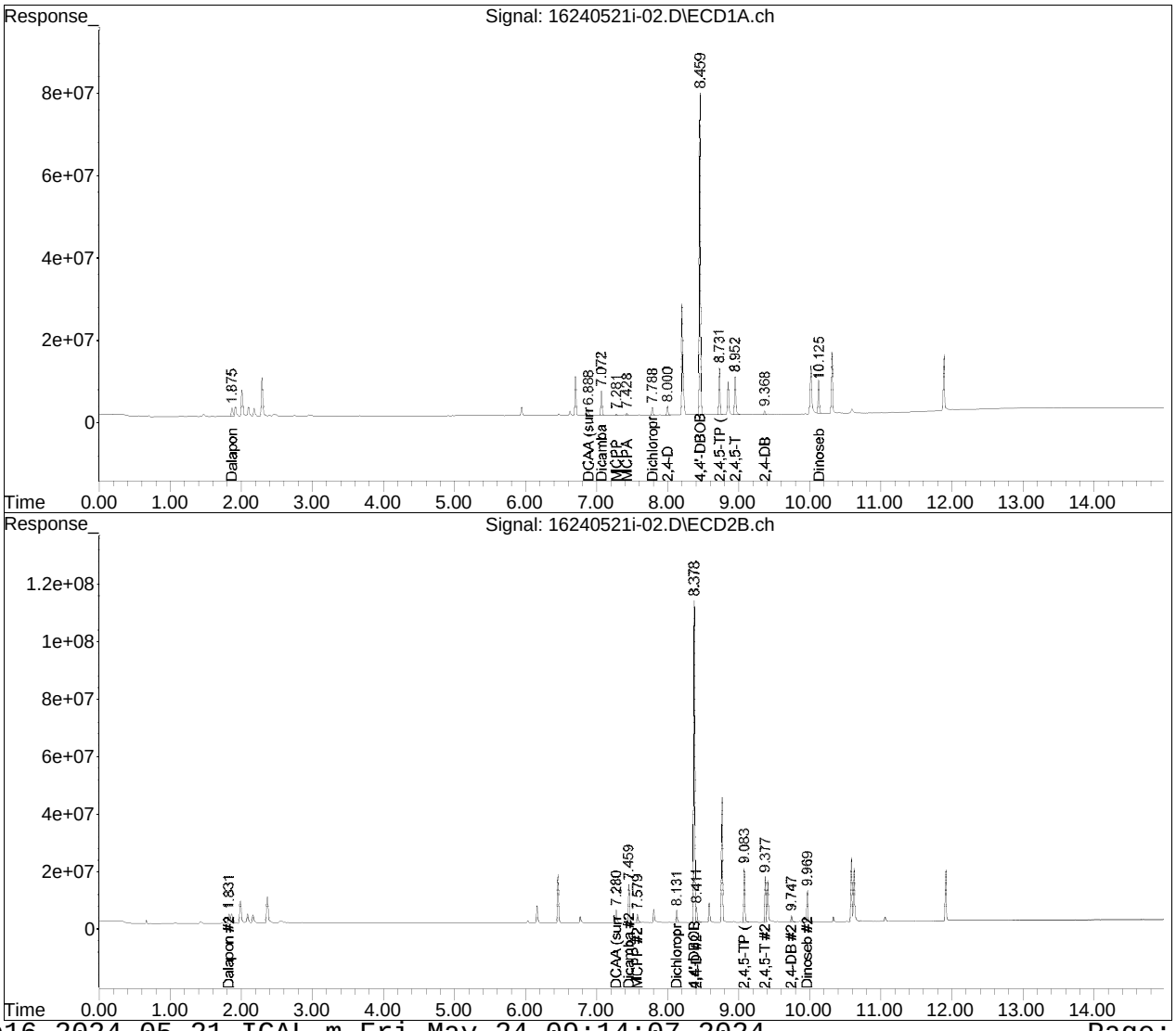
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PCB\Pest16\2024\240521ical\
Data File : 16240521i-02.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 21 May 2024 6:01 pm
Operator : pest16:jag
Sample : il1herb,42e,, pp11464 L0.005/5 (Sig #1); il1herb,42e,,pp 11464 L0.
Misc : wg1925170,
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 24 09:12:25 2024
Quant Method : I:\PCB\Pest16\2024\240521ical\Herb16_2024_05_21_ICAL.m
Quant Title : herb
QLast Update : Fri May 24 09:12:25 2024
Response via : Initial Calibration
Integrator: ChemStation

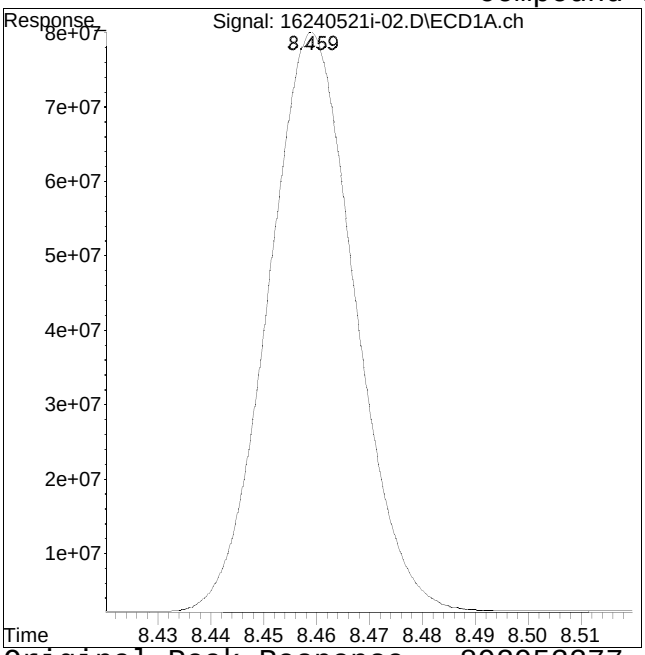
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

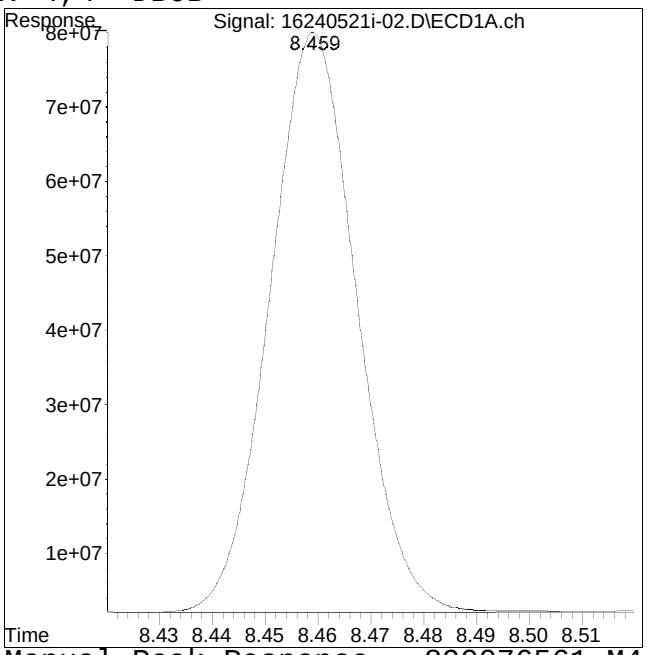


Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240521iQMethod : Herb16_2024_05_21_ICAL.m
Data File : 16240521i-02.D Operator : pest16:jag
Date Inj'd : 5/21/2024 6:01 pm Instrument : PEST16
Sample : il1herb,42e,, pp11464 L0.0Quant Date : 5/24/2024 9:12 am

Compound #1: 4,4'-DBOB



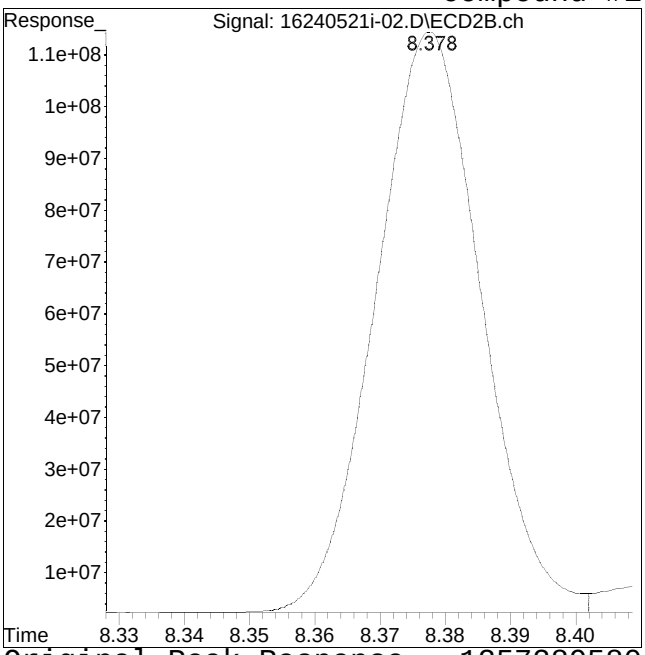


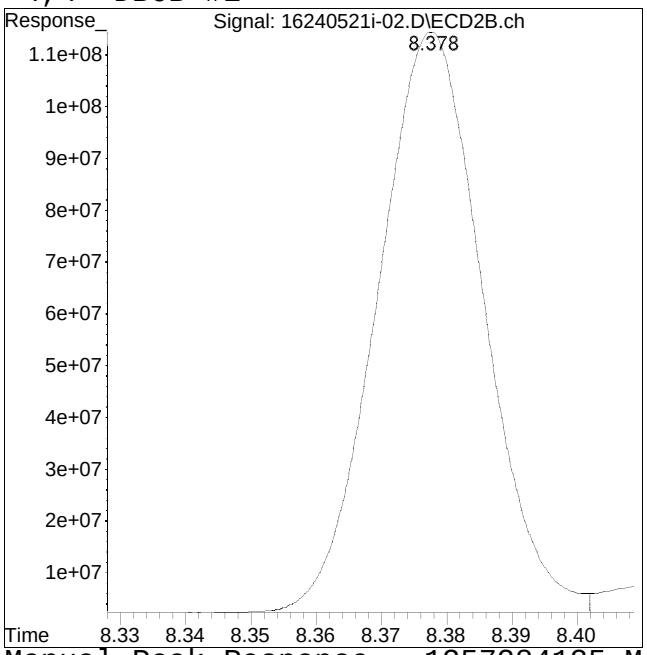
Original Peak Response = 892953377 Manual Peak Response = 890076561 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240521iQMethod : Herb16_2024_05_21_ICAL.m
Data File : 16240521i-02.D Operator : pest16:jag
Date Inj'd : 5/21/2024 6:01 pm Instrument : PEST16
Sample : il1herb,42e,, pp11464 L0.0Quant Date : 5/24/2024 9:12 am

Compound #14: 4,4'-DBOB #2



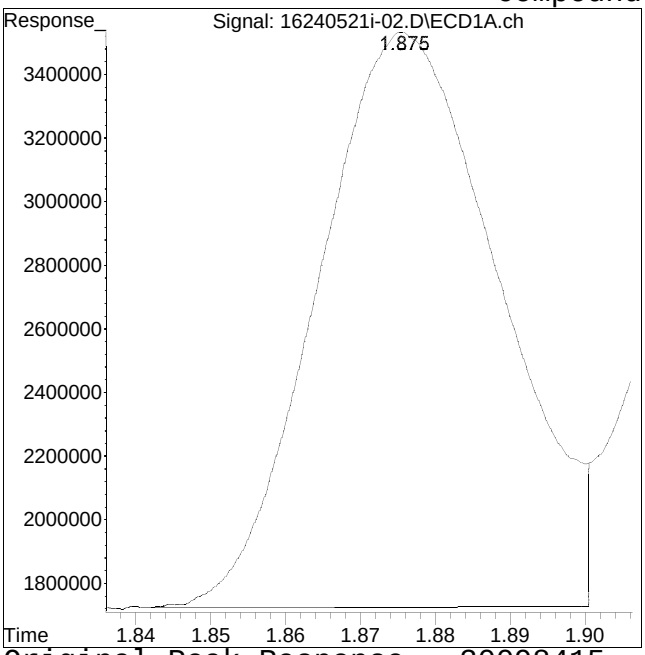


Original Peak Response = 1257289580 Manual Peak Response = 1257284125 M4
M4 = Poor automated baseline construction.

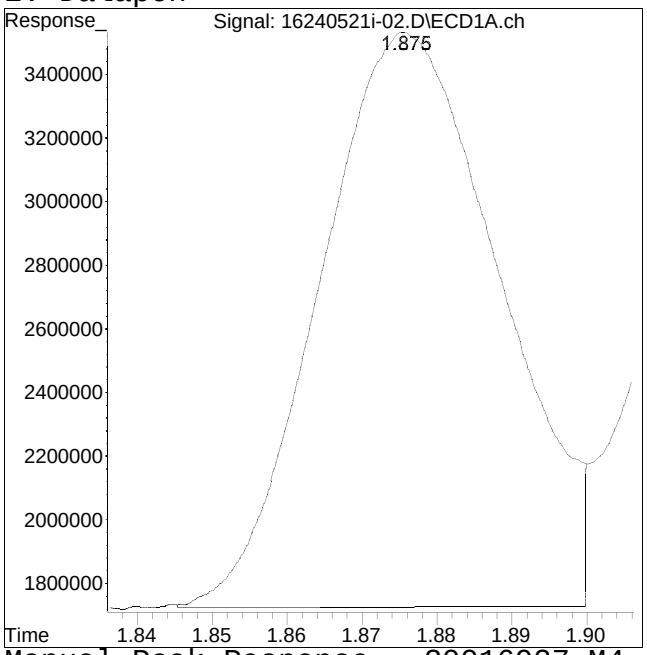
Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240521iQMethod : Herb16_2024_05_21_ICAL.m
Data File : 16240521i-02.D Operator : pest16:jag
Date Inj'd : 5/21/2024 6:01 pm Instrument : PEST16
Sample : il1herb,42e,, pp11464 L0.0Quant Date : 5/24/2024 9:12 am

Compound #2: Dalapon



Original Peak Response = 30098415



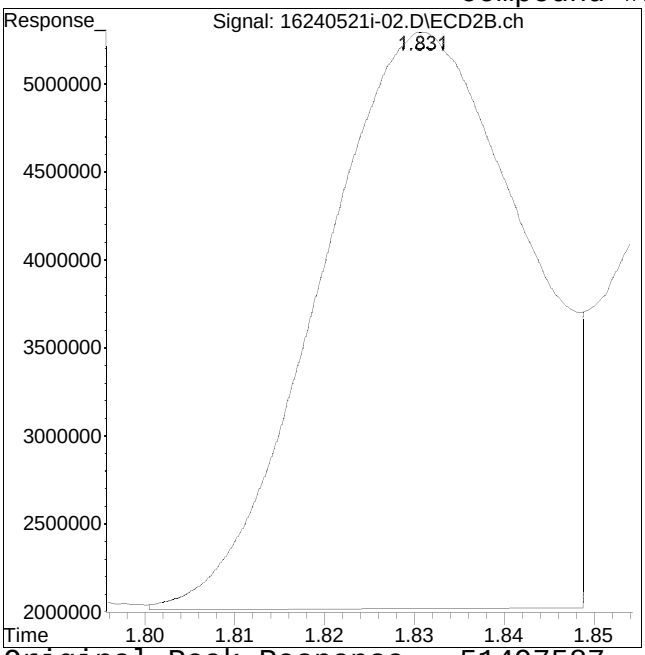
Manual Peak Response = 30016927 M4

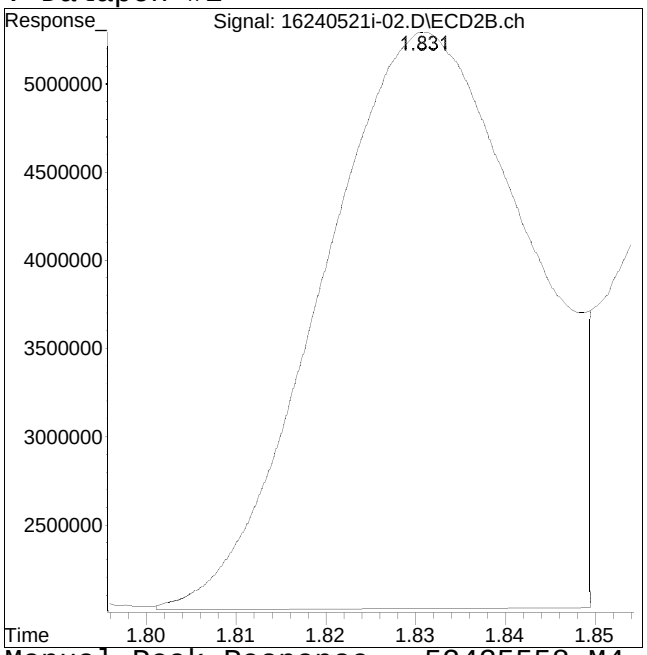
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240521iQMethod : Herb16_2024_05_21_ICAL.m
Data File : 16240521i-02.D Operator : pest16:jag
Date Inj'd : 5/21/2024 6:01 pm Instrument : PEST16
Sample : il1herb,42e,, pp11464 L0.0Quant Date : 5/24/2024 9:12 am

Compound #15: Dalapon #2



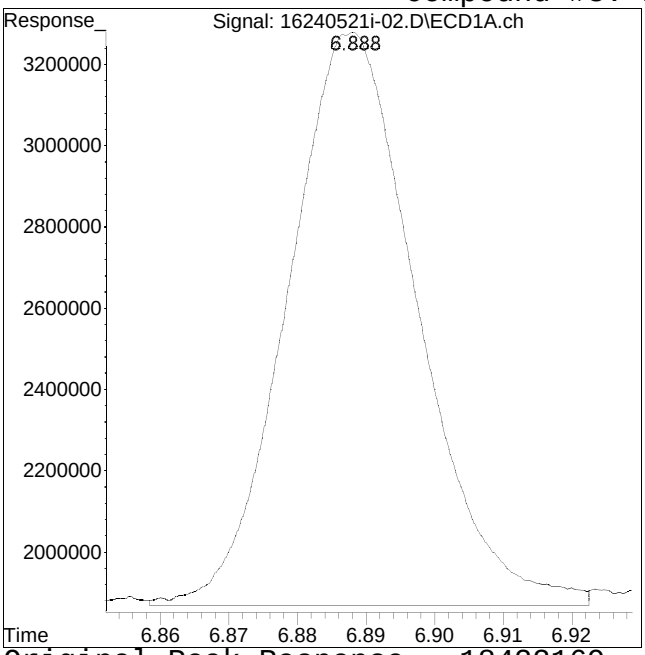


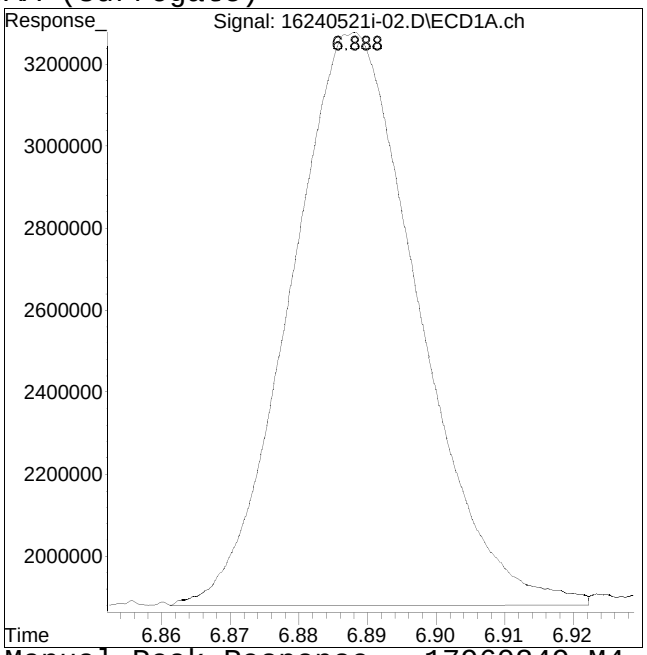
Original Peak Response = 51497587 Manual Peak Response = 52435558 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240521iQMethod : Herb16_2024_05_21_ICAL.m
Data File : 16240521i-02.D Operator : pest16:jag
Date Inj'd : 5/21/2024 6:01 pm Instrument : PEST16
Sample : il1herb,42e,, pp11464 L0.0Quant Date : 5/24/2024 9:12 am

Compound #3: DCAA (surrogate)



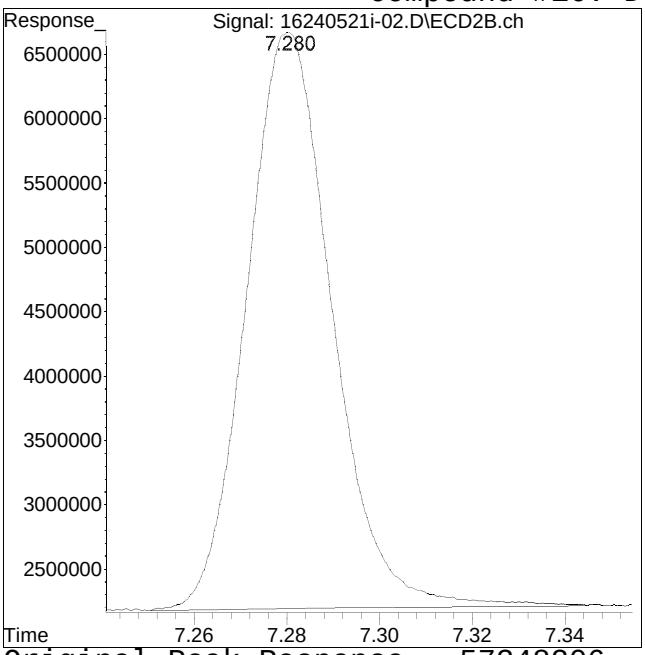


Original Peak Response = 18422169 Manual Peak Response = 17960249 M4
M4 = Poor automated baseline construction.

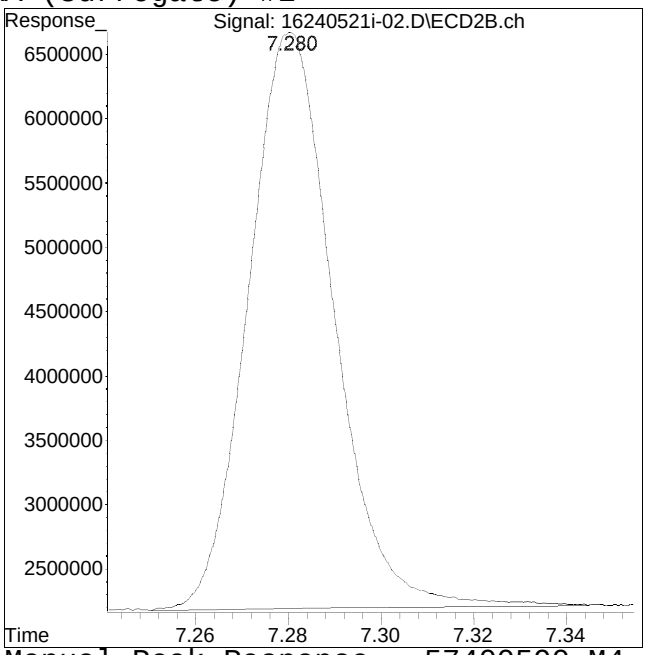
Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240521iQMethod : Herb16_2024_05_21_ICAL.m
Data File : 16240521i-02.D Operator : pest16:jag
Date Inj'd : 5/21/2024 6:01 pm Instrument : PEST16
Sample : il1herb,42e,, pp11464 L0.0Quant Date : 5/24/2024 9:12 am

Compound #16: DCAA (surrogate) #2



Original Peak Response = 57348206



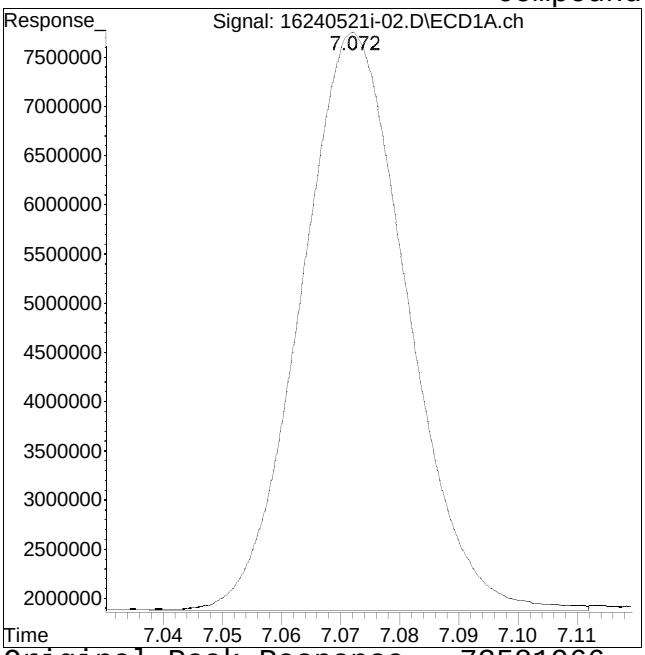
Manual Peak Response = 57400590 M4

M4 = Poor automated baseline construction.

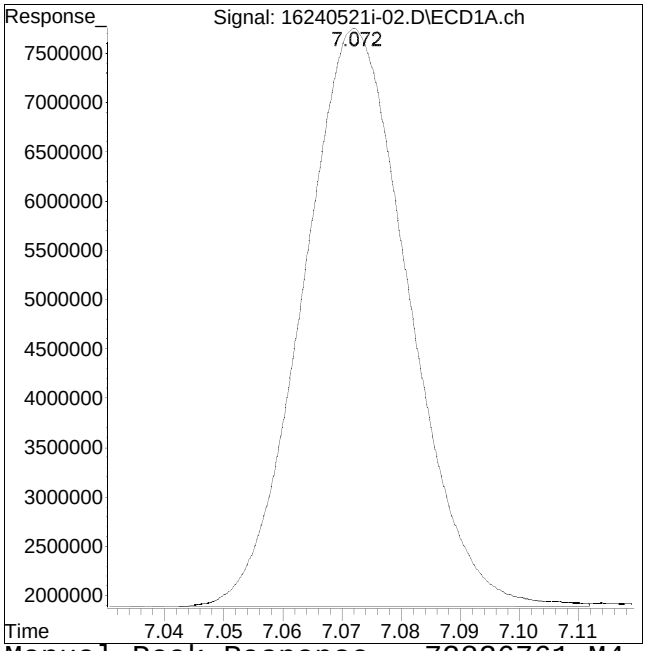
Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240521iQMethod : Herb16_2024_05_21_ICAL.m
Data File : 16240521i-02.D Operator : pest16:jag
Date Inj'd : 5/21/2024 6:01 pm Instrument : PEST16
Sample : il1herb,42e,, pp11464 L0.0Quant Date : 5/24/2024 9:12 am

Compound #4: Dicamba



Original Peak Response = 73581966



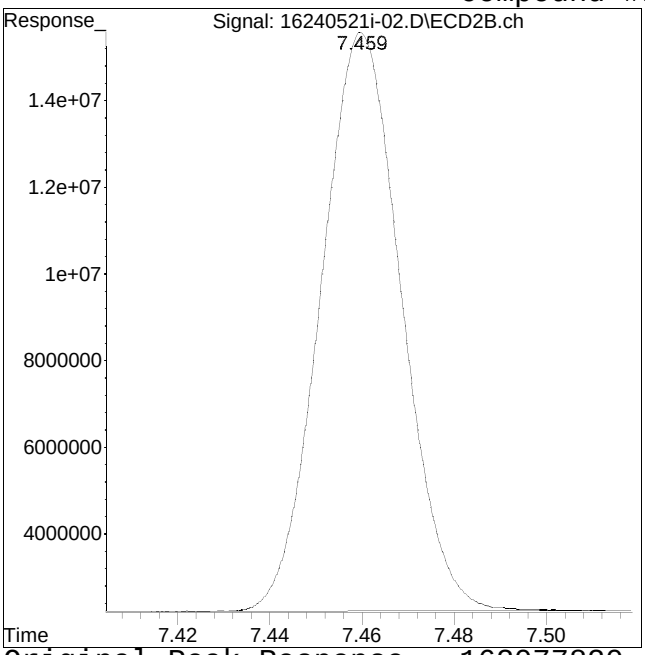
Manual Peak Response = 72836761 M4

M4 = Poor automated baseline construction.

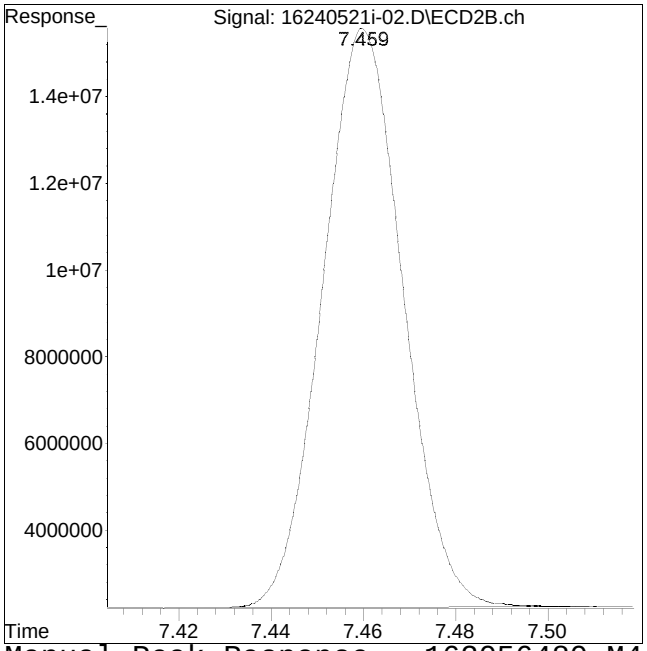
Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240521iQMethod : Herb16_2024_05_21_ICAL.m
Data File : 16240521i-02.D Operator : pest16:jag
Date Inj'd : 5/21/2024 6:01 pm Instrument : PEST16
Sample : il1herb,42e,, pp11464 L0.0Quant Date : 5/24/2024 9:12 am

Compound #17: Dicamba #2



Original Peak Response = 162077820



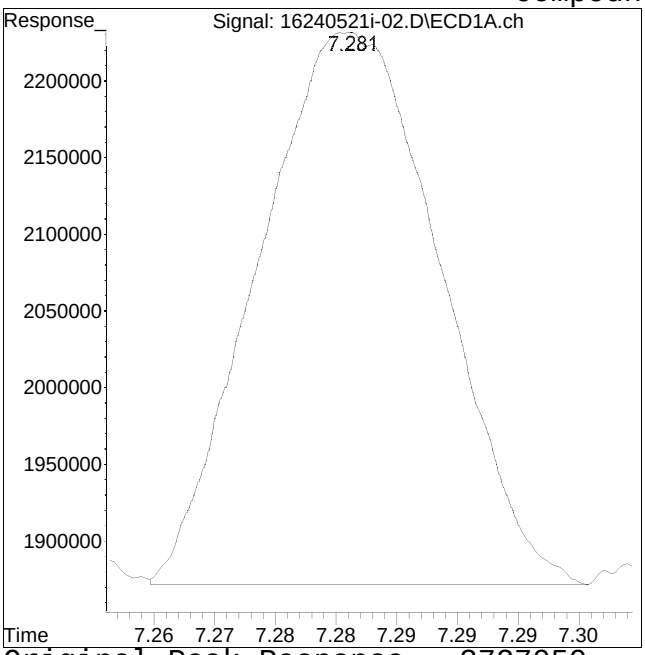
Manual Peak Response = 162056480 M4

M4 = Poor automated baseline construction.

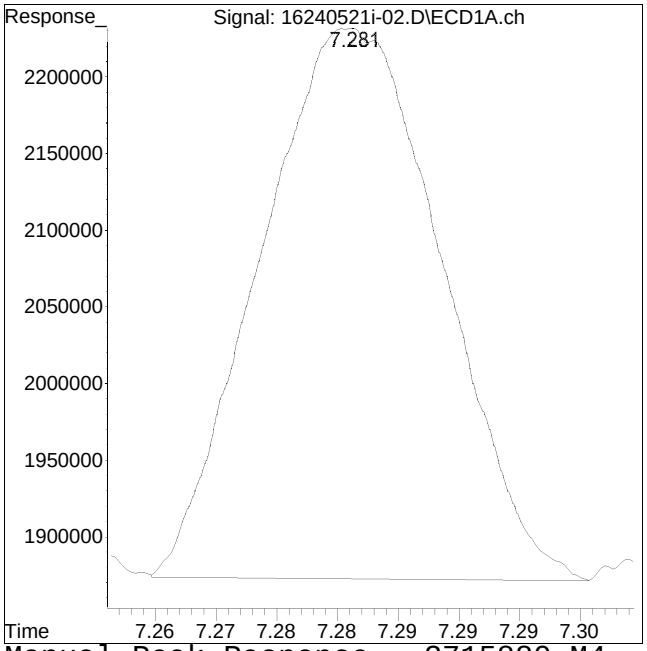
Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240521iQMethod : Herb16_2024_05_21_ICAL.m
Data File : 16240521i-02.D Operator : pest16:jag
Date Inj'd : 5/21/2024 6:01 pm Instrument : PEST16
Sample : il1herb,42e,, pp11464 L0.0Quant Date : 5/24/2024 9:12 am

Compound #5: MCPP



Original Peak Response = 3727059



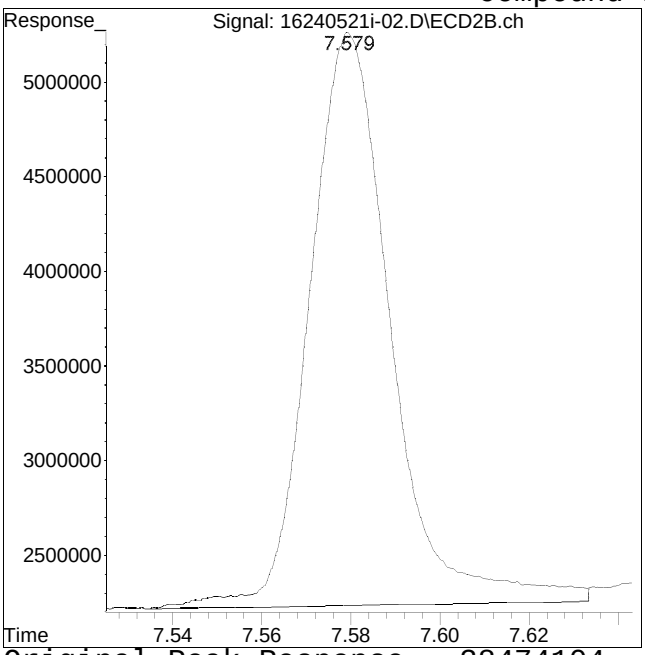
Manual Peak Response = 3715880 M4

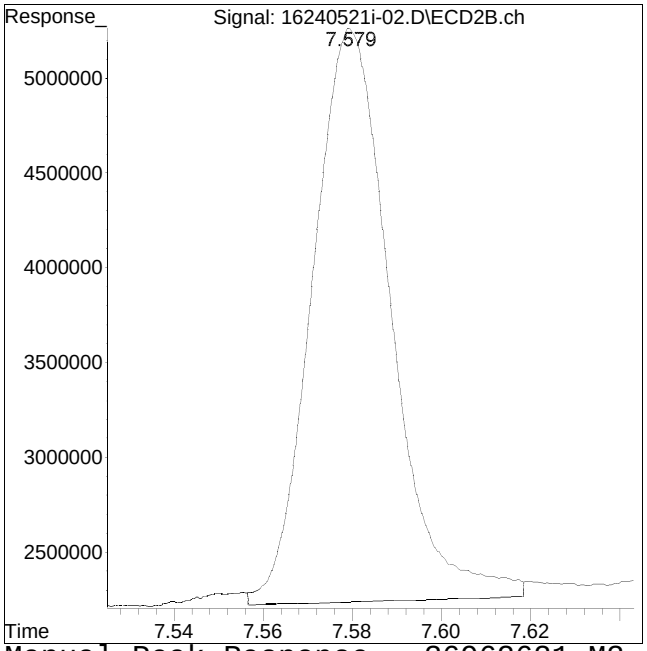
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240521iQMethod : Herb16_2024_05_21_ICAL.m
Data File : 16240521i-02.D Operator : pest16:jag
Date Inj'd : 5/21/2024 6:01 pm Instrument : PEST16
Sample : il1herb,42e,, pp11464 L0.0Quant Date : 5/24/2024 9:12 am

Compound #18: MCPP #2



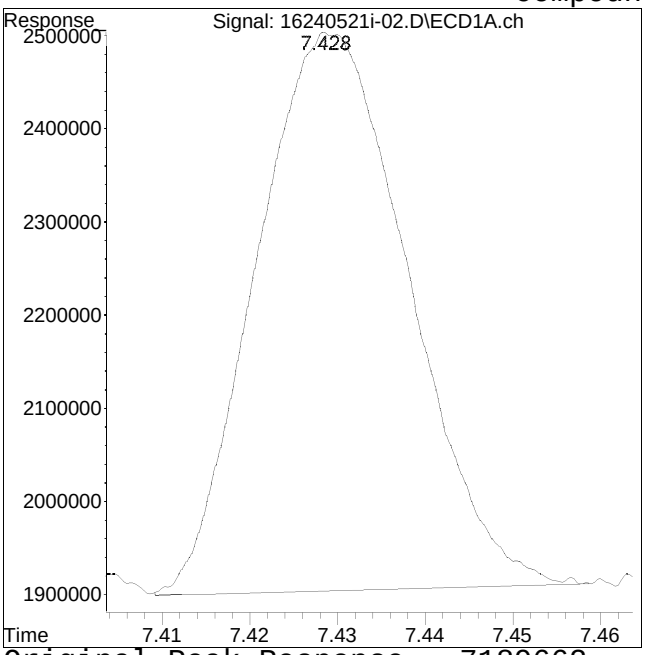


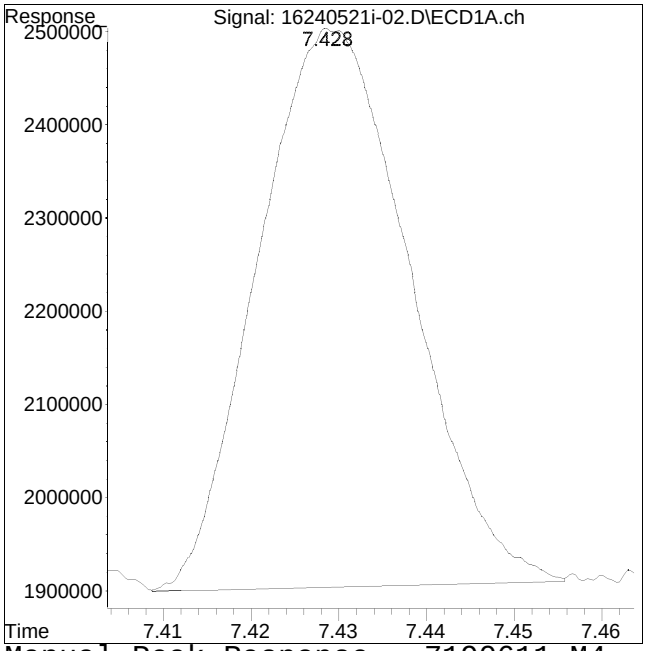
Original Peak Response = 38474104 Manual Peak Response = 36962621 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240521iQMethod : Herb16_2024_05_21_ICAL.m
Data File : 16240521i-02.D Operator : pest16:jag
Date Inj'd : 5/21/2024 6:01 pm Instrument : PEST16
Sample : il1herb,42e,, pp11464 L0.0Quant Date : 5/24/2024 9:12 am

Compound #6: MCPA



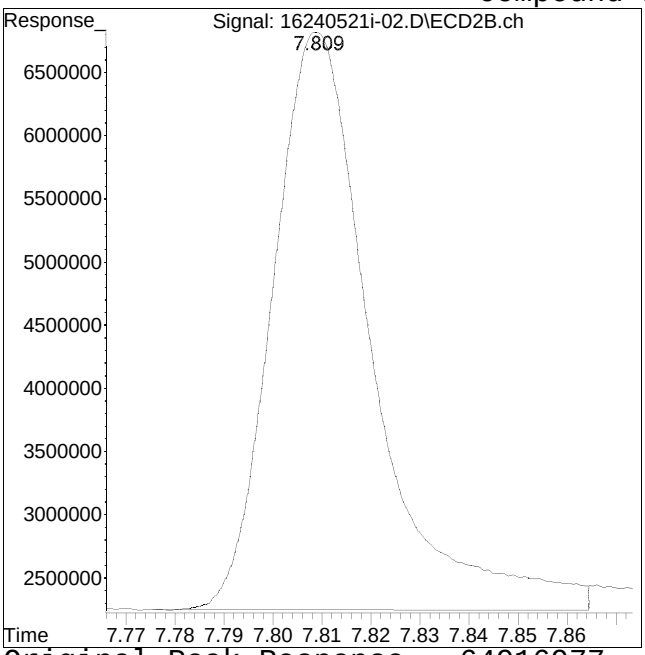


Original Peak Response = 7189662 Manual Peak Response = 7190611 M4
M4 = Poor automated baseline construction.

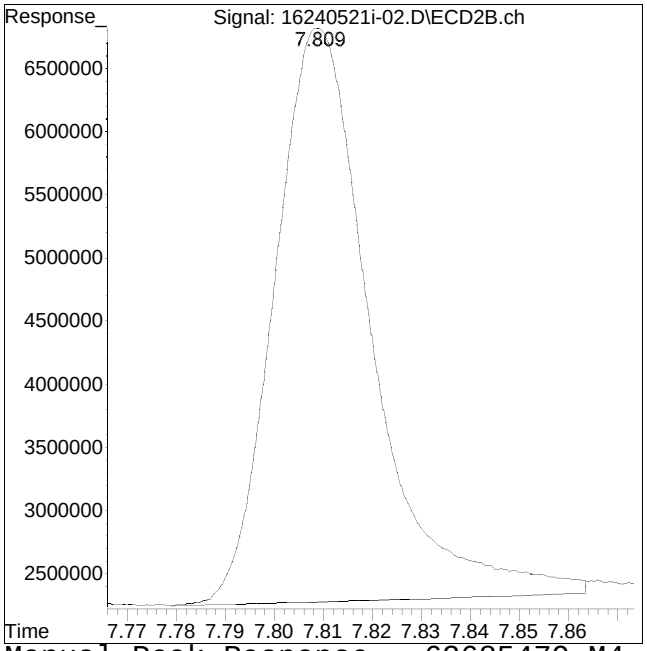
Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240521iQMethod : Herb16_2024_05_21_ICAL.m
Data File : 16240521i-02.D Operator : pest16:jag
Date Inj'd : 5/21/2024 6:01 pm Instrument : PEST16
Sample : il1herb,42e,, pp11464 L0.0Quant Date : 5/24/2024 9:12 am

Compound #19: MCPA #2



Original Peak Response = 64916977



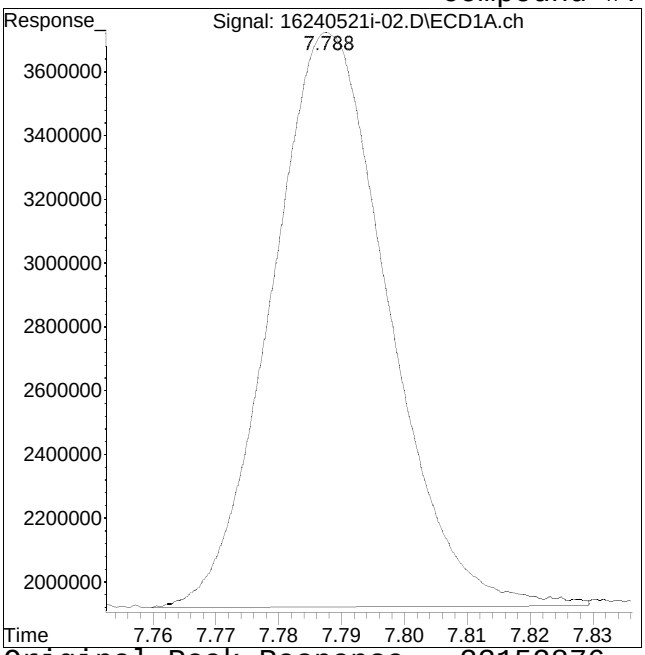
Manual Peak Response = 62685479 M4

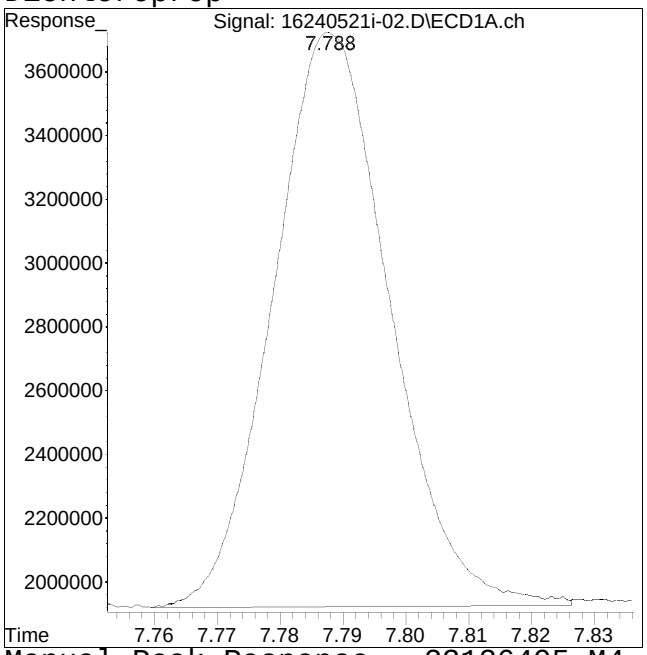
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240521iQMethod : Herb16_2024_05_21_ICAL.m
Data File : 16240521i-02.D Operator : pest16:jag
Date Inj'd : 5/21/2024 6:01 pm Instrument : PEST16
Sample : il1herb,42e,, pp11464 L0.0Quant Date : 5/24/2024 9:12 am

Compound #7: Dichloroprop



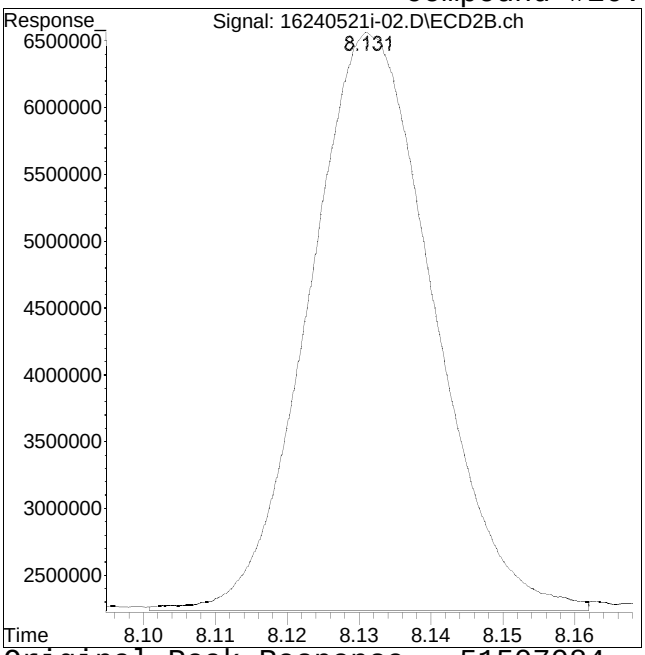


Original Peak Response = 23152876 Manual Peak Response = 23126495 M4
M4 = Poor automated baseline construction.

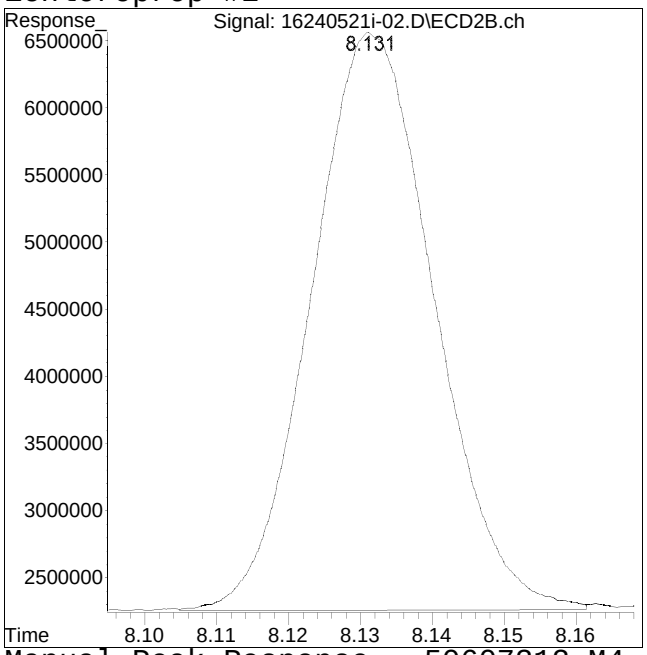
Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240521iQMethod : Herb16_2024_05_21_ICAL.m
Data File : 16240521i-02.D Operator : pest16:jag
Date Inj'd : 5/21/2024 6:01 pm Instrument : PEST16
Sample : il1herb,42e,, pp11464 L0.0Quant Date : 5/24/2024 9:12 am

Compound #20: Dichloroprop #2



Original Peak Response = 51507084



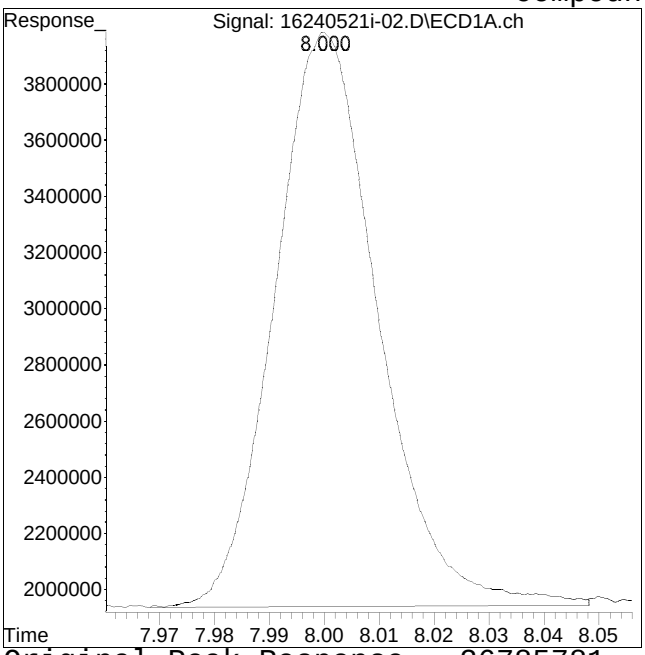
Manual Peak Response = 50607312 M4

M4 = Poor automated baseline construction.

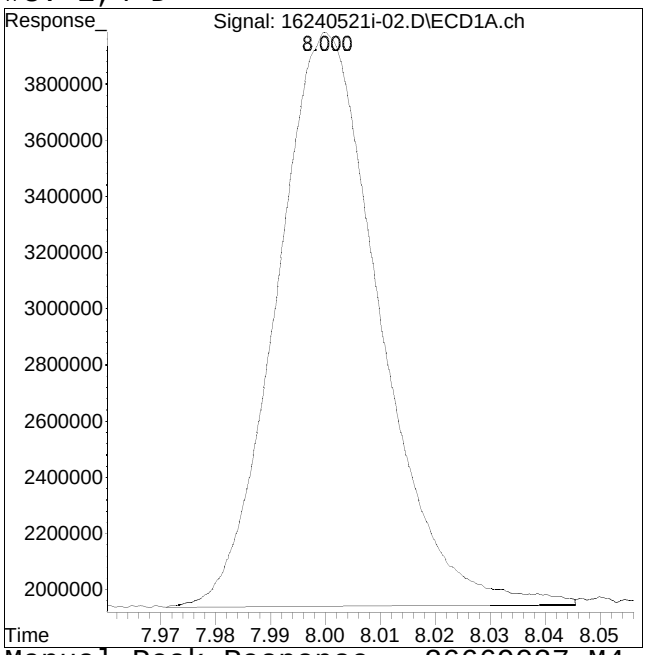
Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240521iQMethod : Herb16_2024_05_21_ICAL.m
Data File : 16240521i-02.D Operator : pest16:jag
Date Inj'd : 5/21/2024 6:01 pm Instrument : PEST16
Sample : il1herb,42e,, pp11464 L0.0Quant Date : 5/24/2024 9:12 am

Compound #8: 2,4-D



Original Peak Response = 26785781



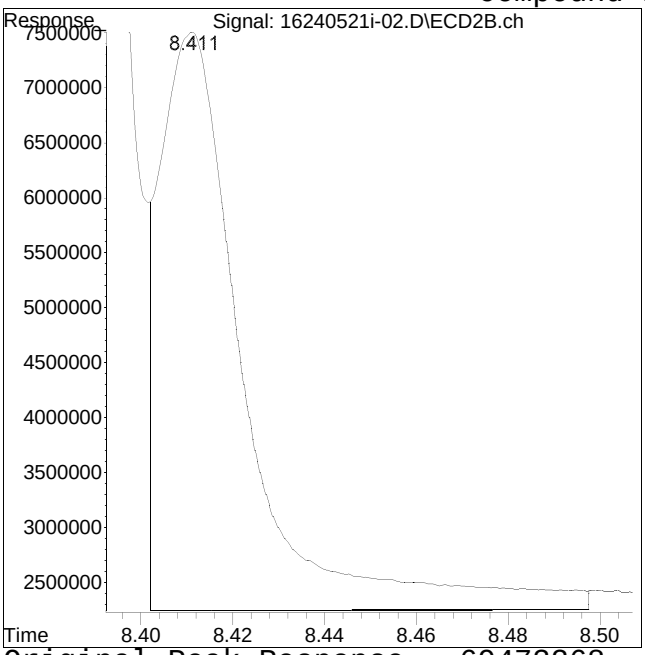
Manual Peak Response = 26669027 M4

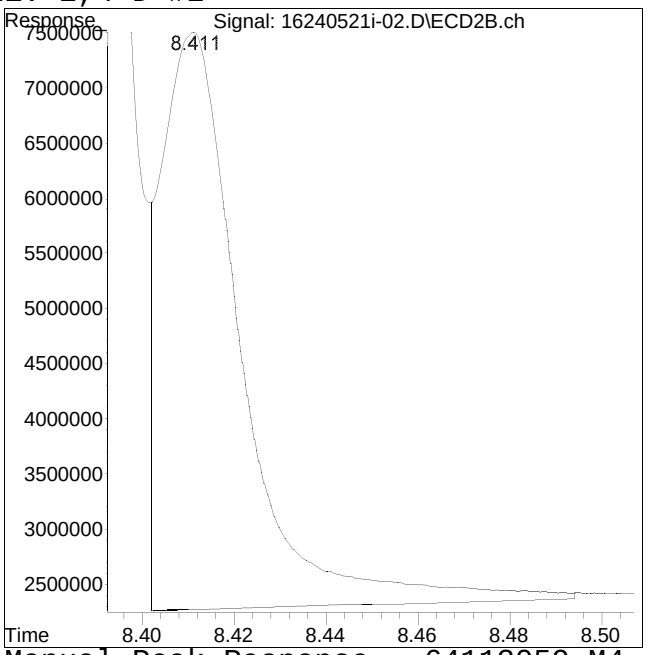
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240521iQMethod : Herb16_2024_05_21_ICAL.m
Data File : 16240521i-02.D Operator : pest16:jag
Date Inj'd : 5/21/2024 6:01 pm Instrument : PEST16
Sample : il1herb,42e,, pp11464 L0.0Quant Date : 5/24/2024 9:12 am

Compound #21: 2,4-D #2



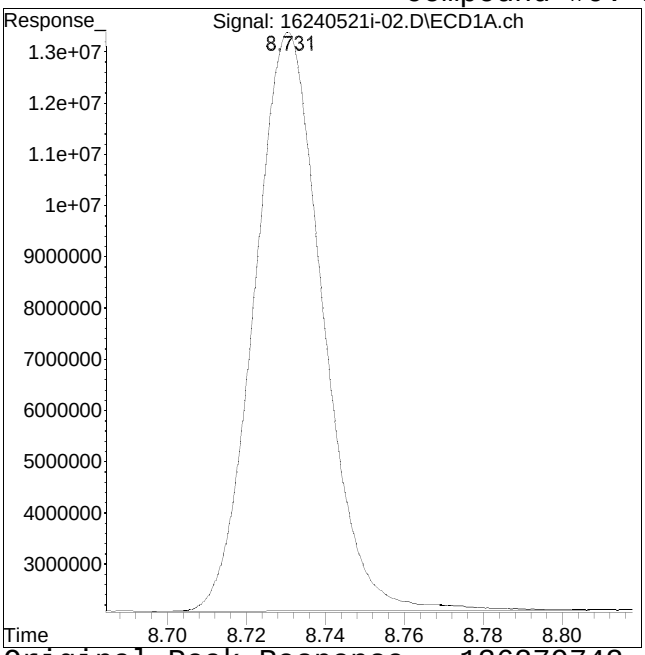


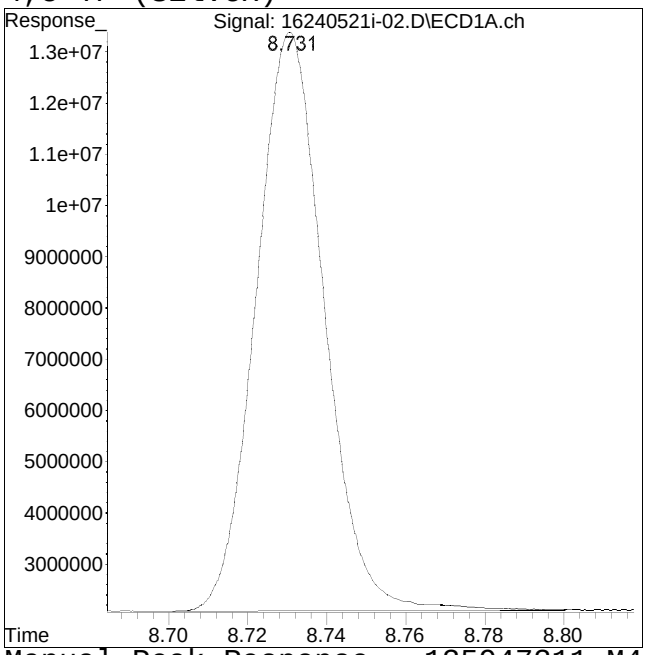
Original Peak Response = 69473268 Manual Peak Response = 64113059 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240521iQMethod : Herb16_2024_05_21_ICAL.m
Data File : 16240521i-02.D Operator : pest16:jag
Date Inj'd : 5/21/2024 6:01 pm Instrument : PEST16
Sample : il1herb,42e,, pp11464 L0.0Quant Date : 5/24/2024 9:12 am

Compound #9: 2,4,5-TP (Silvex)



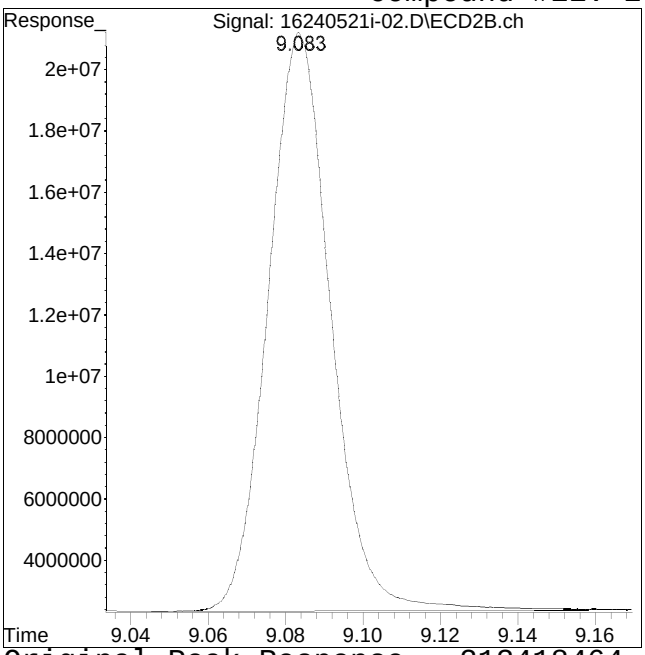


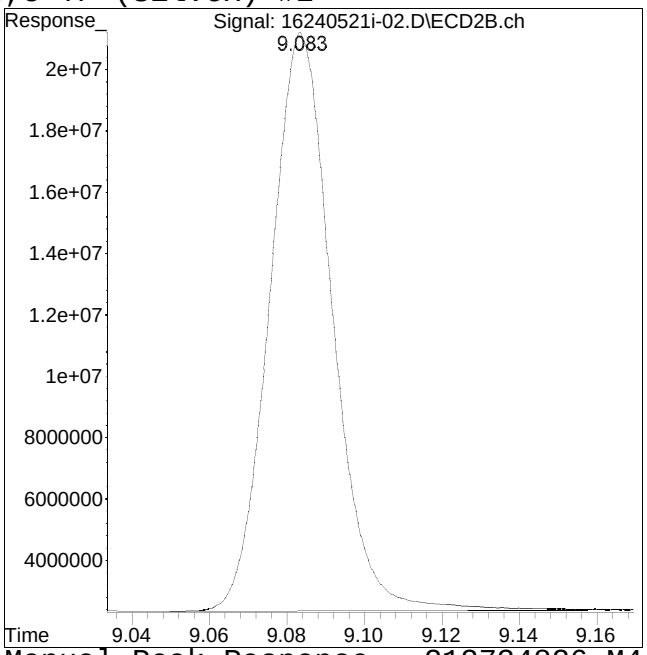
Original Peak Response = 136279742 Manual Peak Response = 135947311 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240521iQMethod : Herb16_2024_05_21_ICAL.m
Data File : 16240521i-02.D Operator : pest16:jag
Date Inj'd : 5/21/2024 6:01 pm Instrument : PEST16
Sample : il1herb,42e,, pp11464 L0.0Quant Date : 5/24/2024 9:12 am

Compound #22: 2,4,5-TP (Silvex) #2



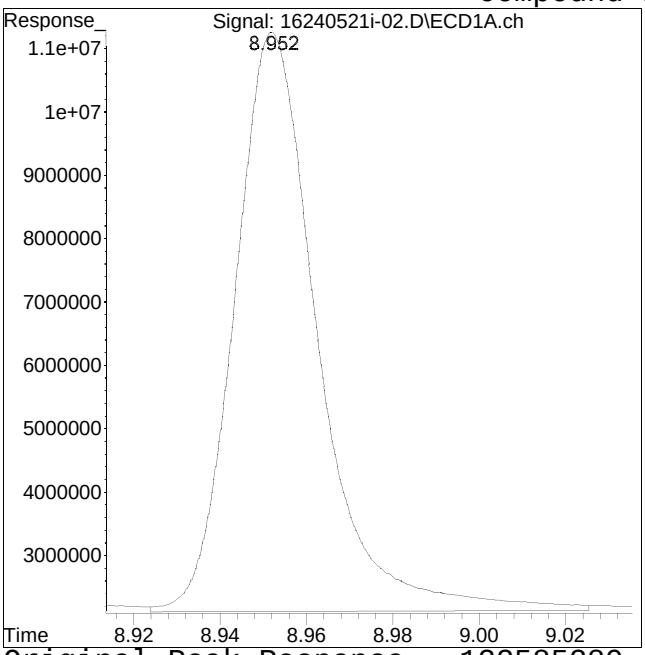


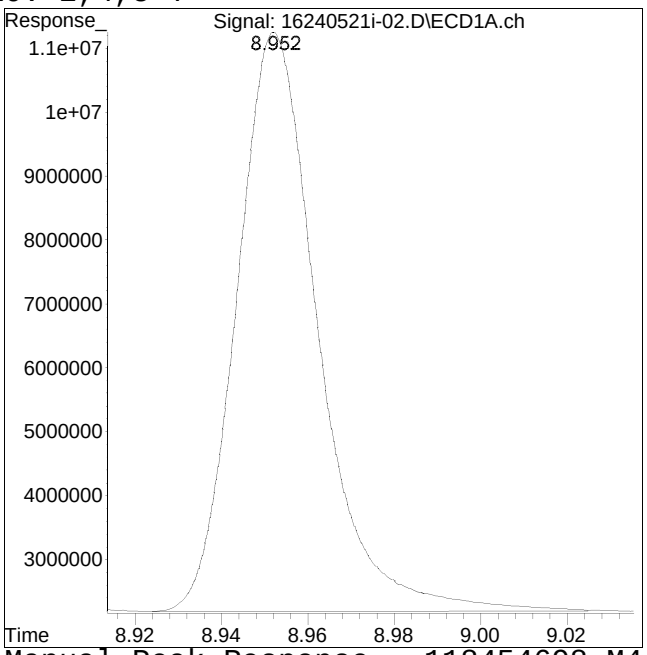
Original Peak Response = 213418464 Manual Peak Response = 212734826 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240521iQMethod : Herb16_2024_05_21_ICAL.m
Data File : 16240521i-02.D Operator : pest16:jag
Date Inj'd : 5/21/2024 6:01 pm Instrument : PEST16
Sample : il1herb,42e,, pp11464 L0.0Quant Date : 5/24/2024 9:12 am

Compound #10: 2,4,5-T



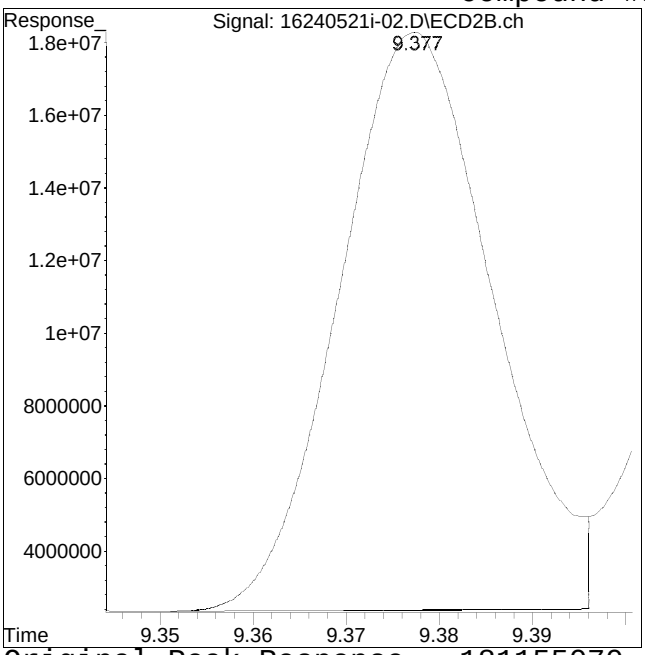


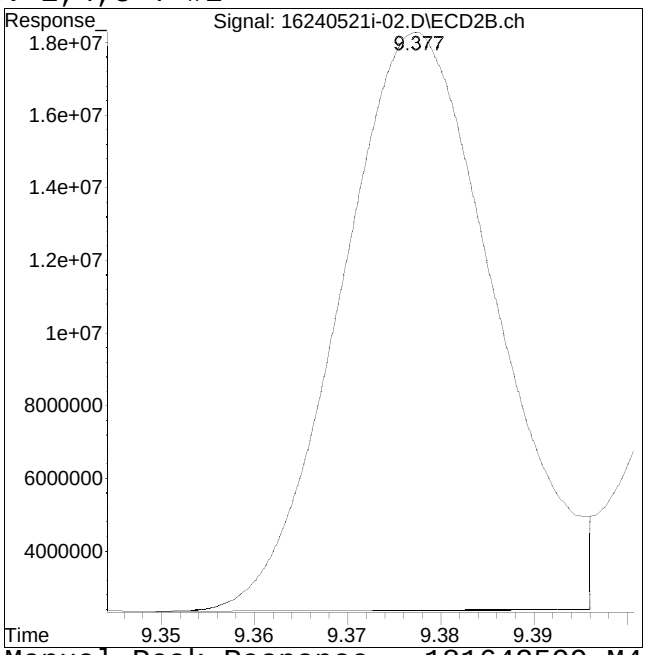
Original Peak Response = 122585289 Manual Peak Response = 118454698 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240521iQMethod : Herb16_2024_05_21_ICAL.m
Data File : 16240521i-02.D Operator : pest16:jag
Date Inj'd : 5/21/2024 6:01 pm Instrument : PEST16
Sample : il1herb,42e,, pp11464 L0.0Quant Date : 5/24/2024 9:12 am

Compound #23: 2,4,5-T #2



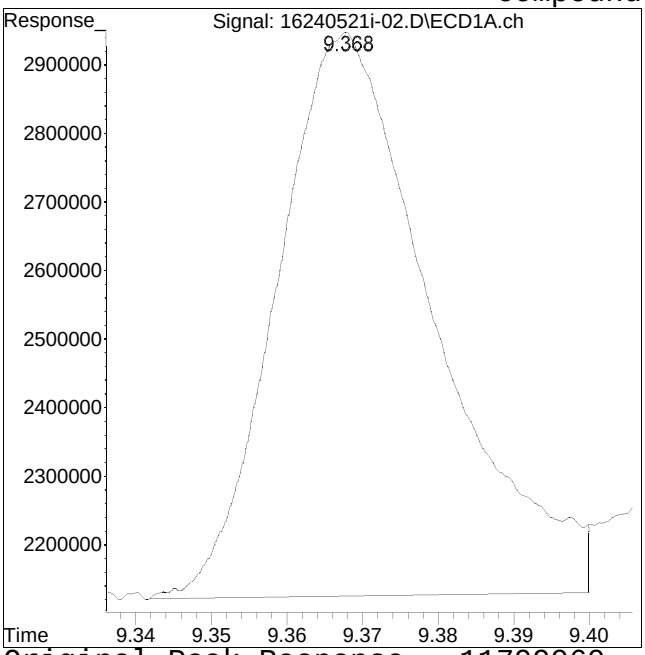


Original Peak Response = 181155070 Manual Peak Response = 181642599 M4
M4 = Poor automated baseline construction.

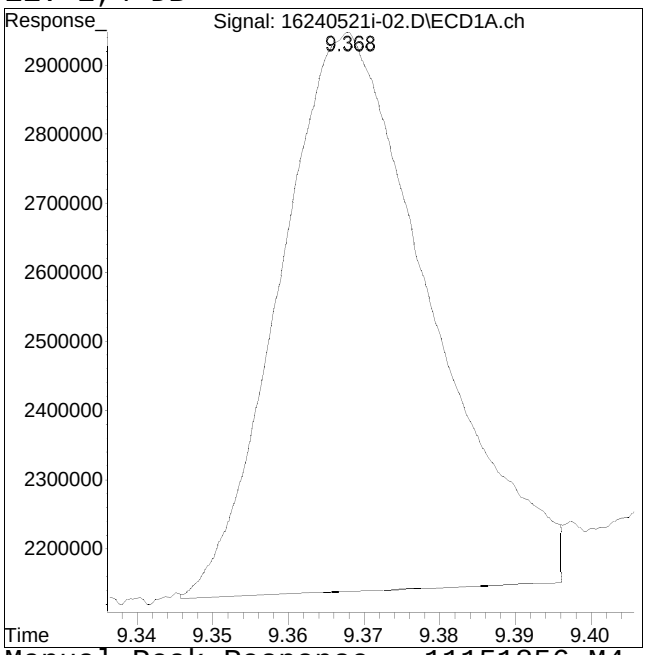
Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240521iQMethod : Herb16_2024_05_21_ICAL.m
Data File : 16240521i-02.D Operator : pest16:jag
Date Inj'd : 5/21/2024 6:01 pm Instrument : PEST16
Sample : il1herb,42e,, pp11464 L0.0Quant Date : 5/24/2024 9:12 am

Compound #11: 2,4-DB



Original Peak Response = 11799960

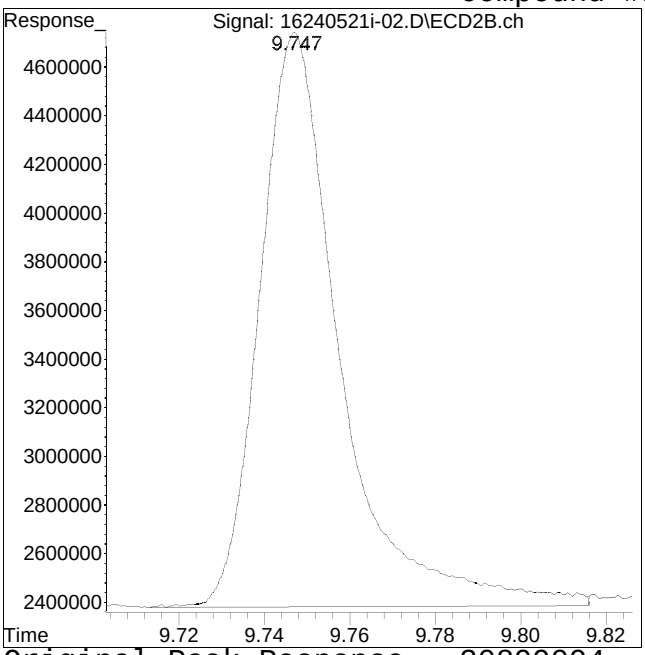


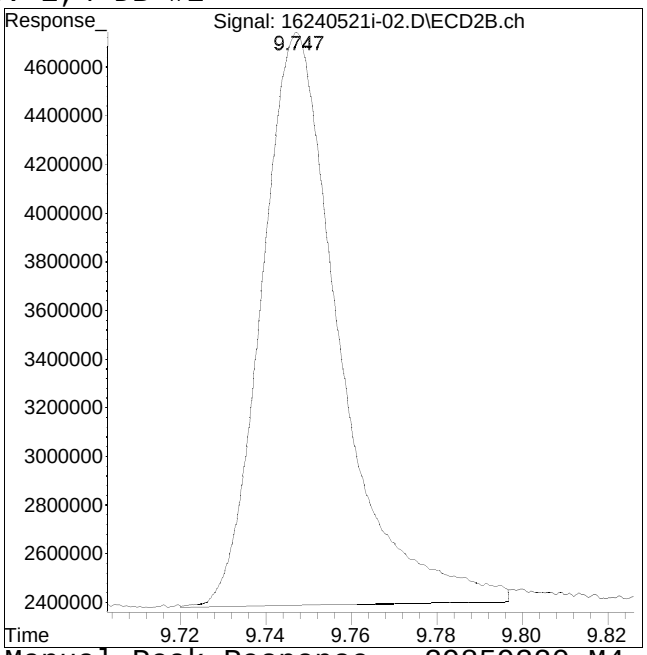
Manual Peak Response = 11151856 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240521iQMethod : Herb16_2024_05_21_ICAL.m
Data File : 16240521i-02.D Operator : pest16:jag
Date Inj'd : 5/21/2024 6:01 pm Instrument : PEST16
Sample : il1herb,42e,, pp11464 L0.0Quant Date : 5/24/2024 9:12 am

Compound #24: 2,4-DB #2



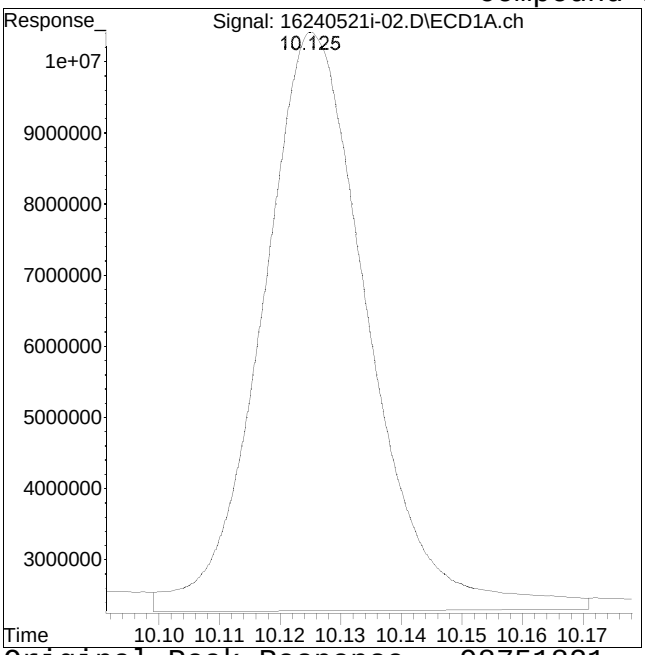


Original Peak Response = 30899094 Manual Peak Response = 29859320 M4
M4 = Poor automated baseline construction.

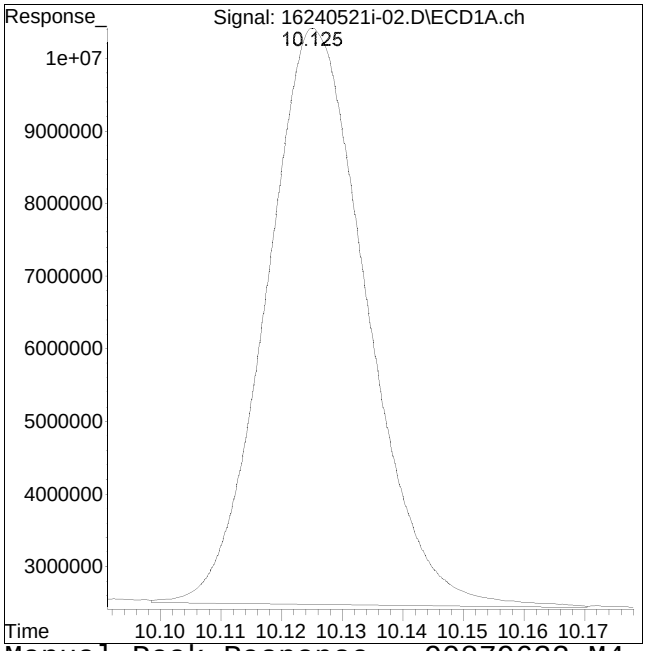
Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240521iQMethod : Herb16_2024_05_21_ICAL.m
Data File : 16240521i-02.D Operator : pest16:jag
Date Inj'd : 5/21/2024 6:01 pm Instrument : PEST16
Sample : il1herb,42e,, pp11464 L0.0Quant Date : 5/24/2024 9:12 am

Compound #12: Dinoseb



Original Peak Response = 98751821



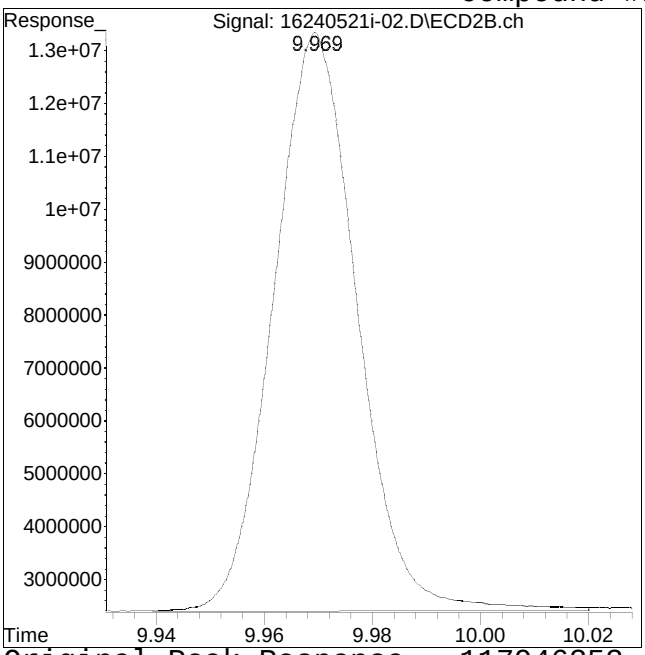
Manual Peak Response = 90879632 M4

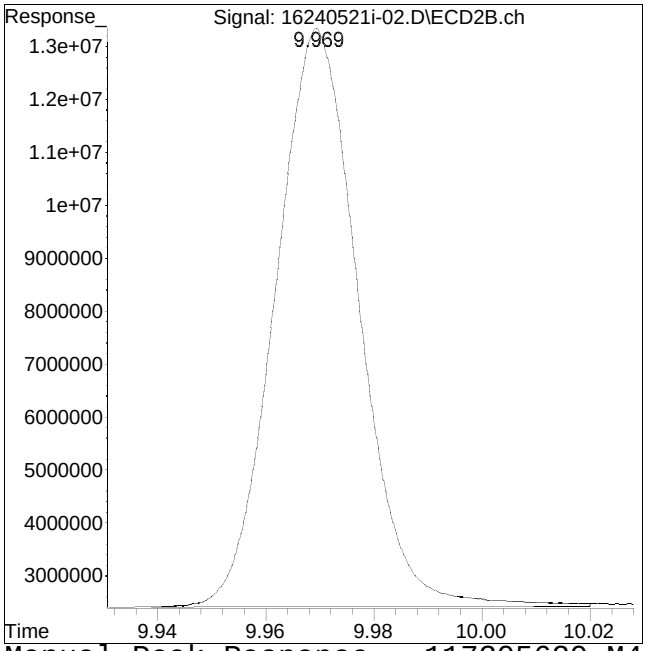
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240521iQMethod : Herb16_2024_05_21_ICAL.m
Data File : 16240521i-02.D Operator : pest16:jag
Date Inj'd : 5/21/2024 6:01 pm Instrument : PEST16
Sample : il1herb,42e,, pp11464 L0.0Quant Date : 5/24/2024 9:12 am

Compound #25: Dinoseb #2





Original Peak Response = 117946353 Manual Peak Response = 117305620 M4
M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest16\2024\240521ical\
Data File : 16240521i-03.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 21 May 2024 6:20 pm
Operator : pest16:jag
Sample : il2herb,42e,,pp 11463 L0.1/10
Misc : wg1925170,
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 24 09:12:31 2024
Quant Method : I:\PCB\Pest16\2024\240521ical\Herb16_2024_05_21_ICAL.m
Quant Title : herb
QLast Update : Fri May 24 09:12:31 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

		Compound	RT#1	RT#2	Resp#1	Resp#2	mg/l	mg/l
		Internal Standards						
1)	i	4,4'-DBOB	8.453	8.373	929.0E6	1303.4E6	0.250M4	0.250M4
		System Monitoring Compounds						
3)	s	DCAA (surrog	6.881	7.275	33200643	104.8E6	0.096M4	0.097M4
		Spiked Amount	0.500	Range	30 - 150	Recovery	= 19.20%#	19.40%#
		Target Compounds						
2)	t	Dalapon	1.873	1.828	56527532	100.8E6	0.093M4	0.096M4
4)	t	Dicamba	7.066	7.454	139.1E6	302.1E6	0.095M4	0.103M4
5)	t	MCPP	7.275	7.574	7761948	65943593	8.310M4	7.601M4
6)	t	MCPA	7.423	7.803	13271823	109.0E6	8.280M4	7.354M4
7)	t	Dichloroprop	7.781	8.126	42033868	95069604	0.102M4	0.105M4
8)	t	2,4-D	7.994	8.406	49865923	116.5E6	0.101M4	0.103M4
9)	t	2,4,5-TP (Si	8.725	9.079	273.2E6	412.0E6	0.094M4	0.102M4
10)	t	2,4,5-T	8.946	9.373	239.3E6	358.3E6	0.094M4	0.099
11)	t	2,4-DB	9.362	9.742	23807474	59868797	0.099M4	0.101M4
12)	t	Dinoseb	10.121	9.965	177.7E6	225.3E6	0.094M4	0.103M4

SemiQuant Compounds - Not Calibrated on this Instrument

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest16\2024\240521ical\
Data File : 16240521i-03.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 21 May 2024 6:20 pm
Operator : pest16:jag
Sample : il2herb,42e,,pp 11463 L0.1/10
Misc : wg1925170,
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 24 09:12:31 2024
Quant Method : I:\PCB\Pest16\2024\240521ical\Herb16_2024_05_21_ICAL.m
Quant Title : herb
QLast Update : Fri May 24 09:12:31 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	mg/l	mg/l

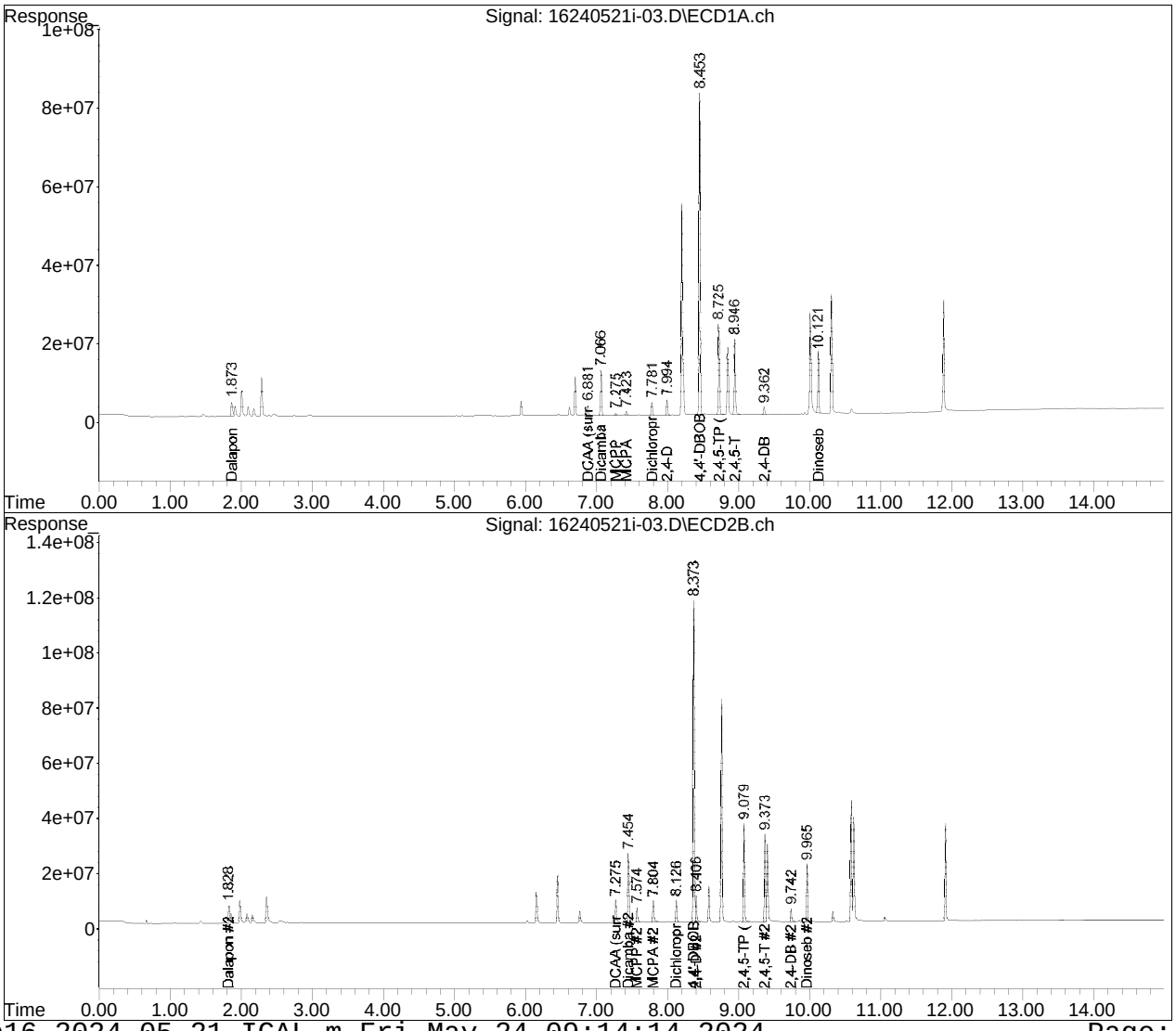
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PCB\Pest16\2024\240521ical\
Data File : 16240521i-03.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 21 May 2024 6:20 pm
Operator : pest16:jag
Sample : il2herb,42e,,pp 11463 L0.1/10
Misc : wg1925170,
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 24 09:12:31 2024
Quant Method : I:\PCB\Pest16\2024\240521ical\Herb16_2024_05_21_ICAL.m
Quant Title : herb
QLast Update : Fri May 24 09:12:31 2024
Response via : Initial Calibration
Integrator: ChemStation

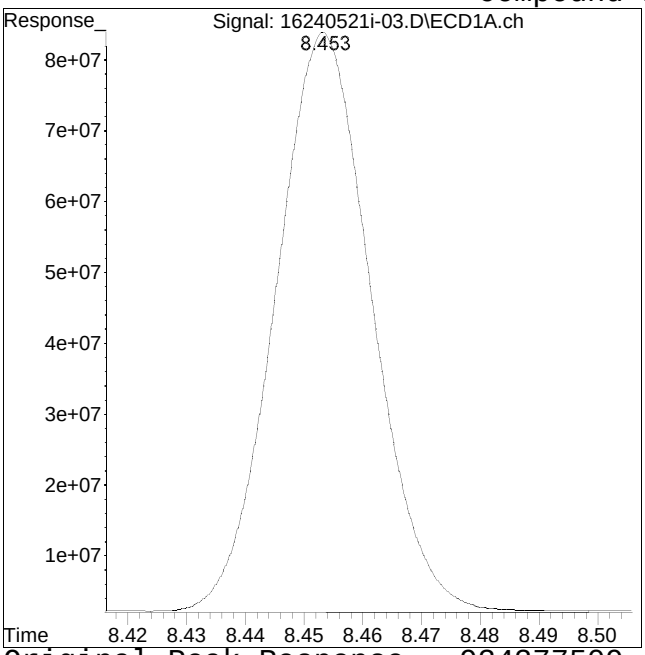
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

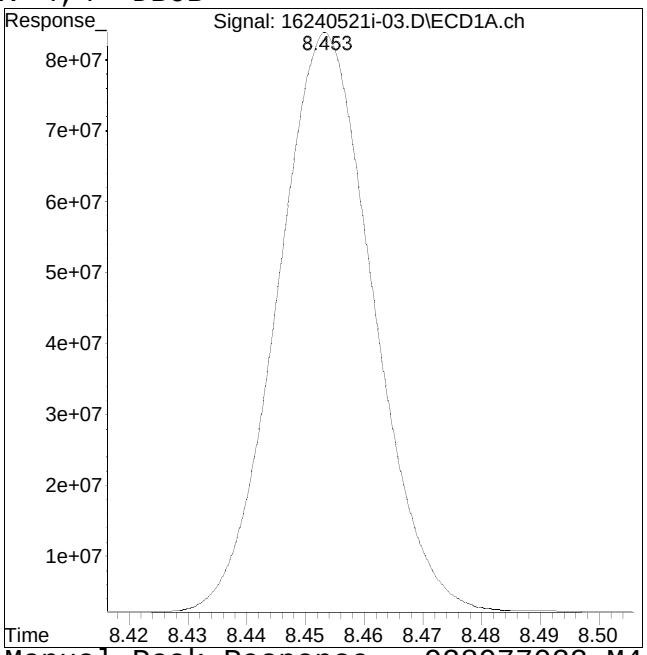


Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240521iQMethod : Herb16_2024_05_21_ICAL.m
Data File : 16240521i-03.D Operator : pest16:jag
Date Inj'd : 5/21/2024 6:20 pm Instrument : PEST16
Sample : il2herb,42e,,pp 11463 L0.1Quant Date : 5/24/2024 9:12 am

Compound #1: 4,4'-DBOB



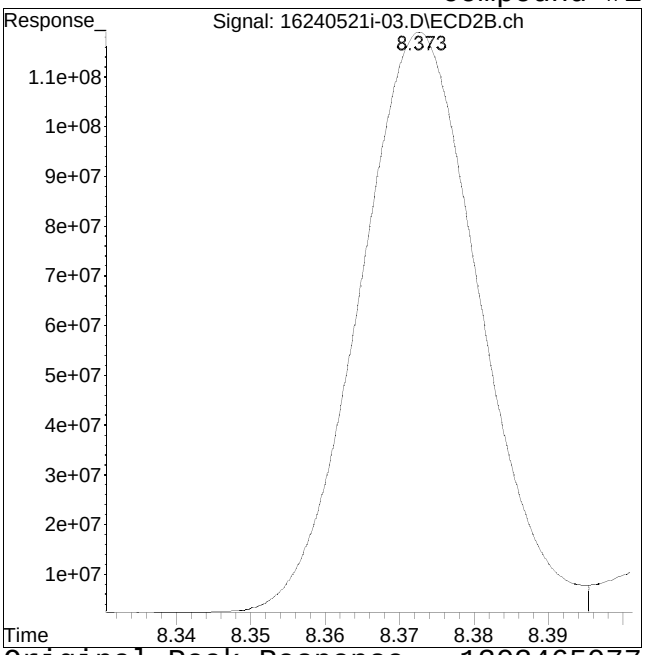


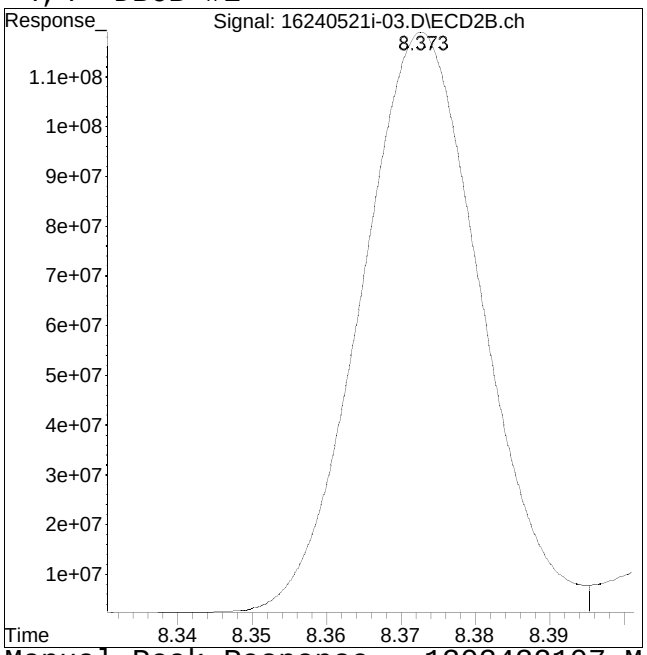
Original Peak Response = 934377509 Manual Peak Response = 928977022 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240521iQMethod : Herb16_2024_05_21_ICAL.m
Data File : 16240521i-03.D Operator : pest16:jag
Date Inj'd : 5/21/2024 6:20 pm Instrument : PEST16
Sample : il2herb,42e,,pp 11463 L0.1Quant Date : 5/24/2024 9:12 am

Compound #14: 4,4'-DBOB #2



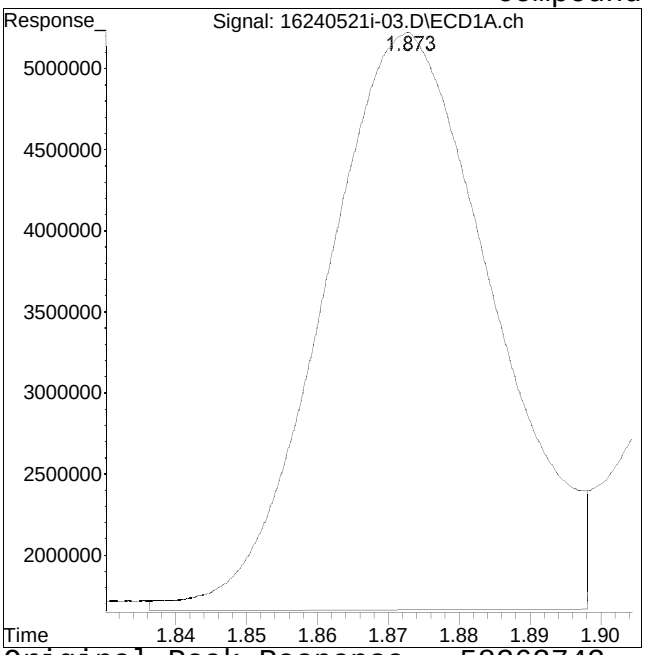


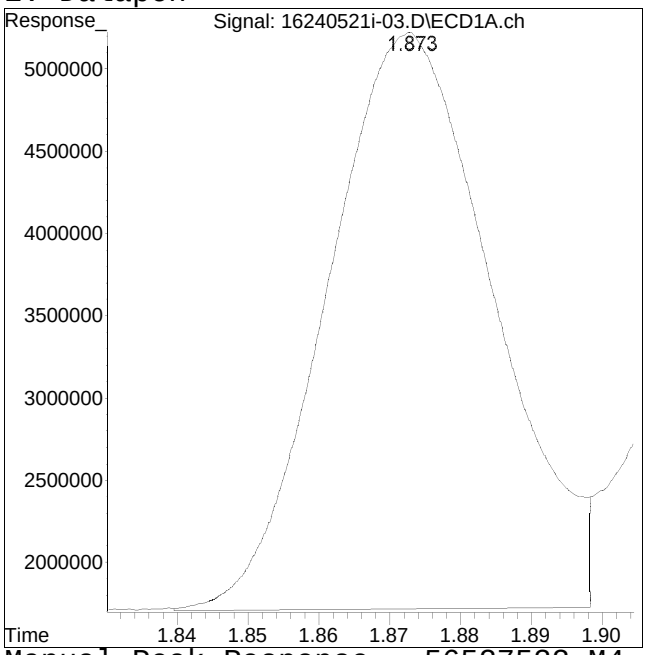
Original Peak Response = 1303465077 Manual Peak Response = 1303432107 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240521iQMethod : Herb16_2024_05_21_ICAL.m
Data File : 16240521i-03.D Operator : pest16:jag
Date Inj'd : 5/21/2024 6:20 pm Instrument : PEST16
Sample : il2herb,42e,,pp 11463 L0.1Quant Date : 5/24/2024 9:12 am

Compound #2: Dalapon



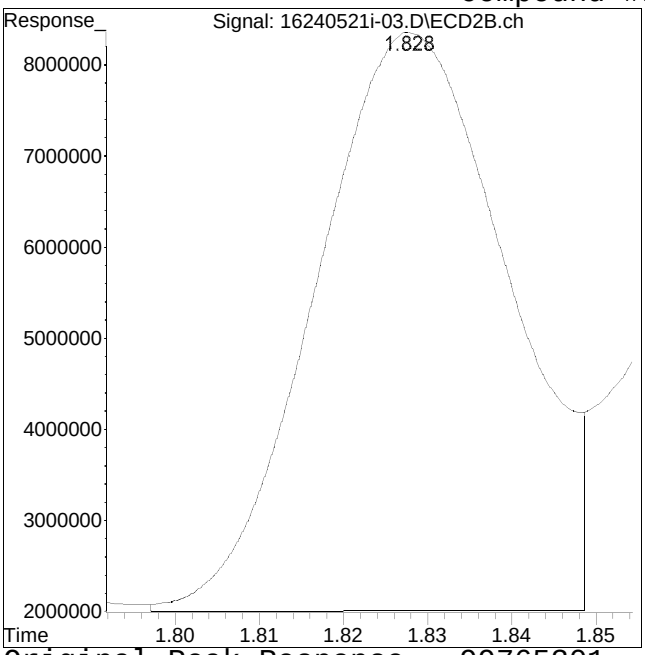


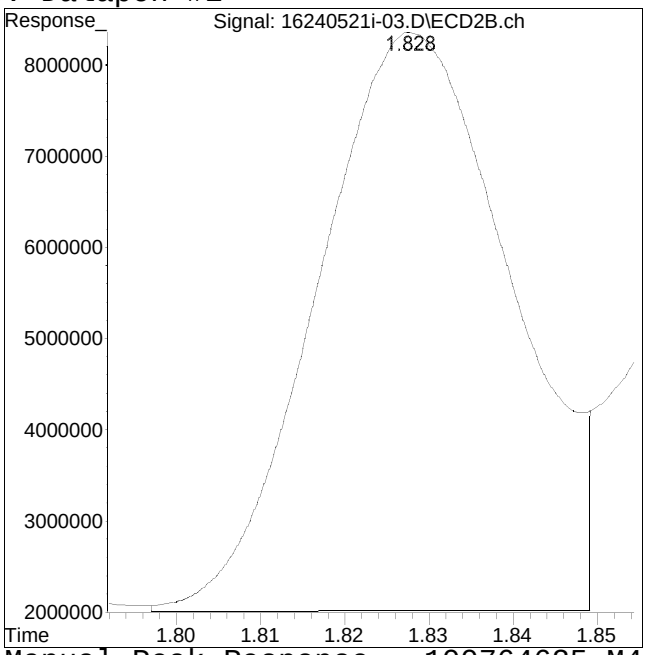
Original Peak Response = 58363743 Manual Peak Response = 56527532 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240521iQMethod : Herb16_2024_05_21_ICAL.m
Data File : 16240521i-03.D Operator : pest16:jag
Date Inj'd : 5/21/2024 6:20 pm Instrument : PEST16
Sample : il2herb,42e,,pp 11463 L0.1Quant Date : 5/24/2024 9:12 am

Compound #15: Dalapon #2



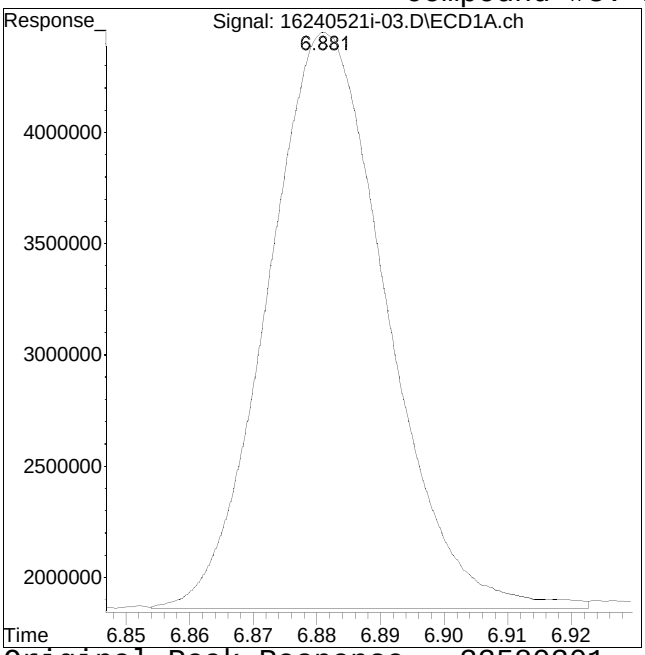


Original Peak Response = 99765301 Manual Peak Response = 100764625 M4
M4 = Poor automated baseline construction.

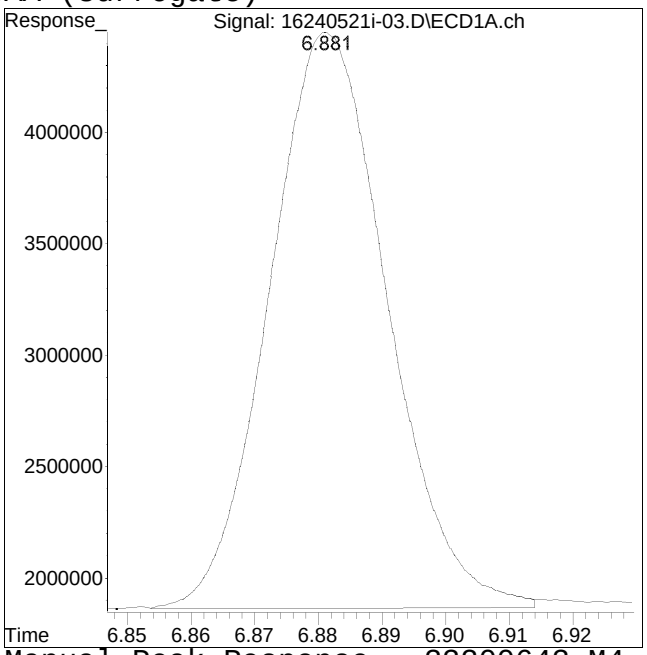
Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240521iQMethod : Herb16_2024_05_21_ICAL.m
Data File : 16240521i-03.D Operator : pest16:jag
Date Inj'd : 5/21/2024 6:20 pm Instrument : PEST16
Sample : il2herb,42e,,pp 11463 L0.1Quant Date : 5/24/2024 9:12 am

Compound #3: DCAA (surrogate)



Original Peak Response = 33580301



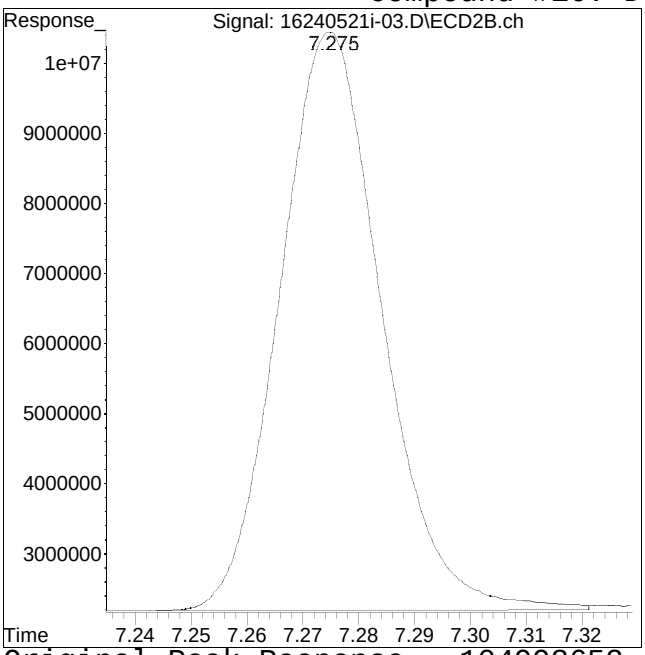
Manual Peak Response = 33200643 M4

M4 = Poor automated baseline construction.

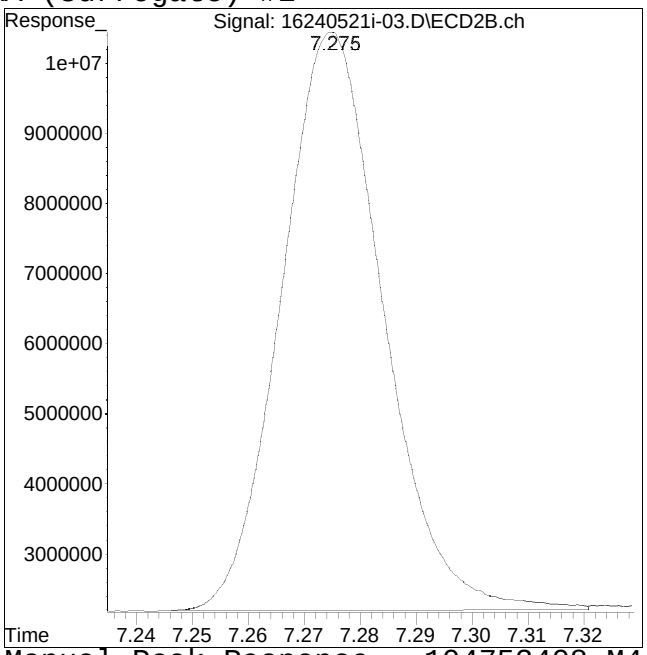
Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240521iQMethod : Herb16_2024_05_21_ICAL.m
Data File : 16240521i-03.D Operator : pest16:jag
Date Inj'd : 5/21/2024 6:20 pm Instrument : PEST16
Sample : il2herb,42e,,pp 11463 L0.1Quant Date : 5/24/2024 9:12 am

Compound #16: DCAA (surrogate) #2



Original Peak Response = 104993652

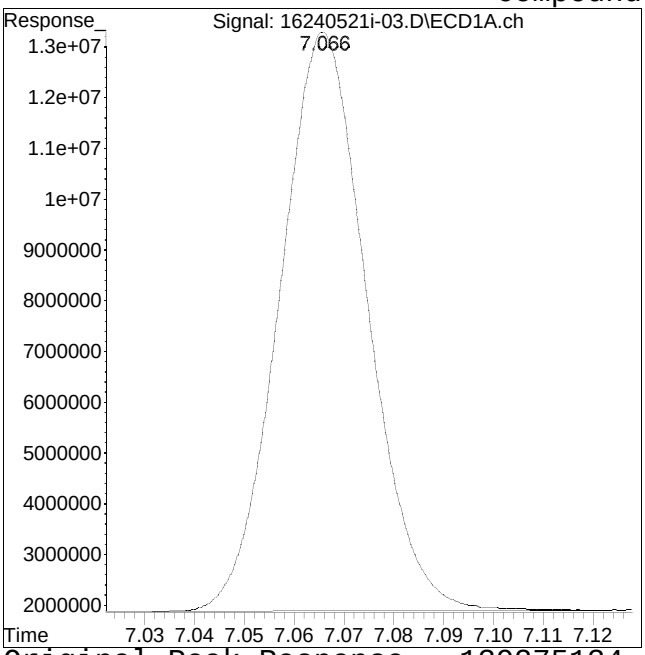


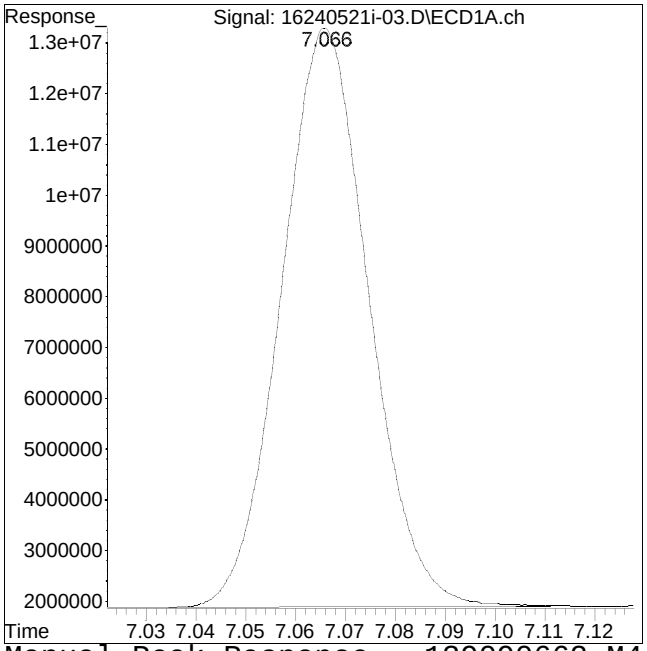
Manual Peak Response = 104753408 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240521iQMethod : Herb16_2024_05_21_ICAL.m
Data File : 16240521i-03.D Operator : pest16:jag
Date Inj'd : 5/21/2024 6:20 pm Instrument : PEST16
Sample : il2herb,42e,,pp 11463 L0.1Quant Date : 5/24/2024 9:12 am

Compound #4: Dicamba



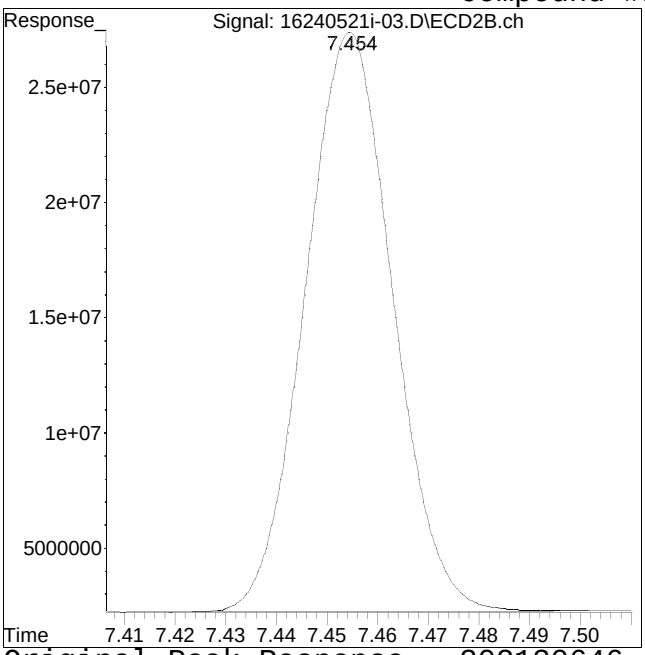


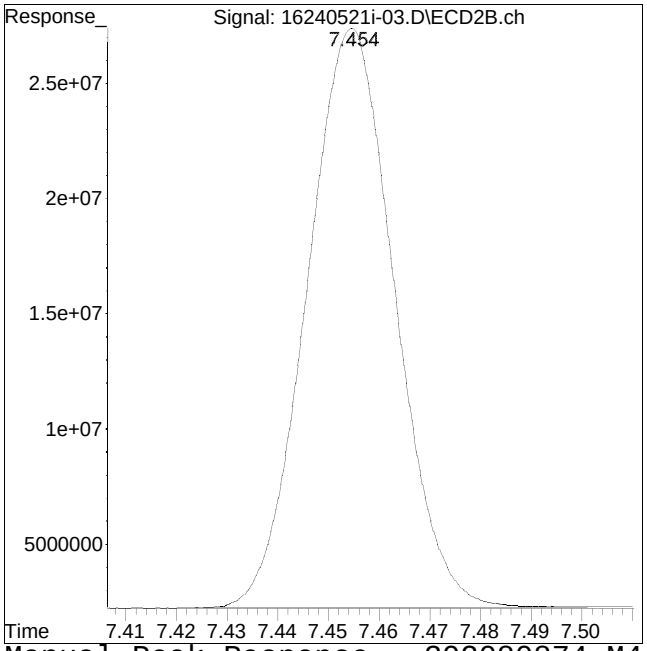
Original Peak Response = 139275134 Manual Peak Response = 139090662 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240521iQMethod : Herb16_2024_05_21_ICAL.m
Data File : 16240521i-03.D Operator : pest16:jag
Date Inj'd : 5/21/2024 6:20 pm Instrument : PEST16
Sample : il2herb,42e,,pp 11463 L0.1Quant Date : 5/24/2024 9:12 am

Compound #17: Dicamba #2



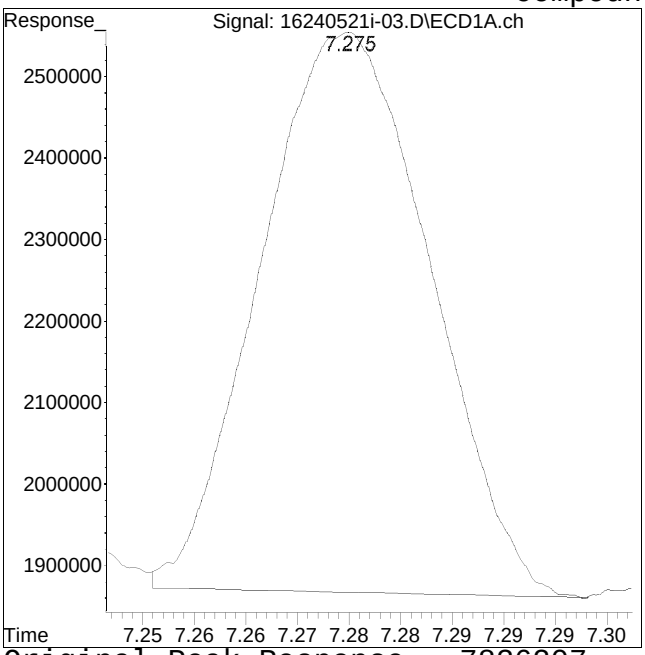


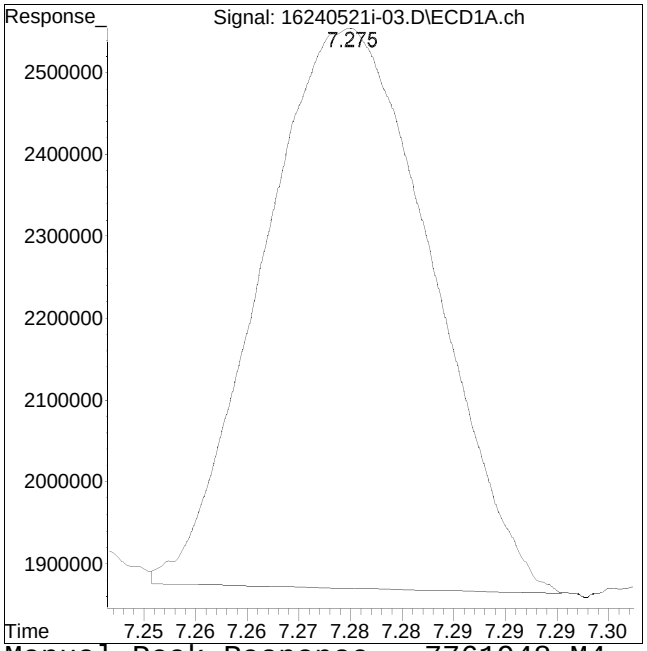
Original Peak Response = 302130646 Manual Peak Response = 302080874 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240521iQMethod : Herb16_2024_05_21_ICAL.m
Data File : 16240521i-03.D Operator : pest16:jag
Date Inj'd : 5/21/2024 6:20 pm Instrument : PEST16
Sample : il2herb,42e,,pp 11463 L0.1Quant Date : 5/24/2024 9:12 am

Compound #5: MCPP



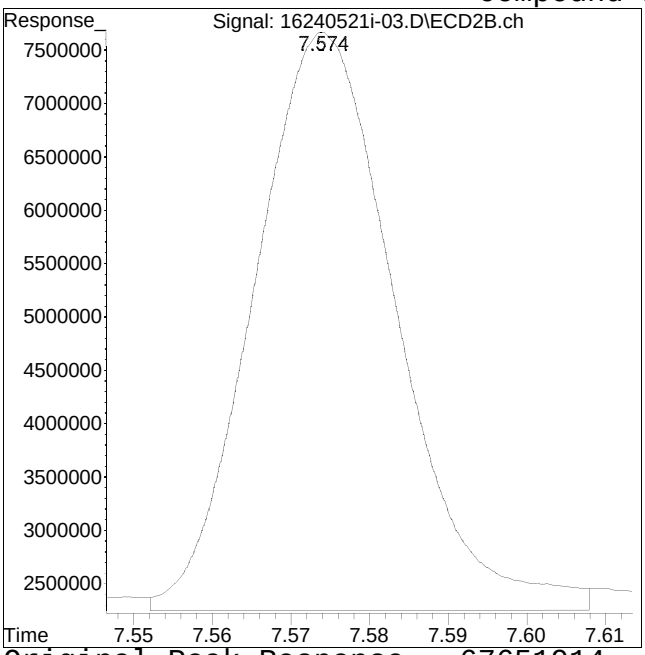


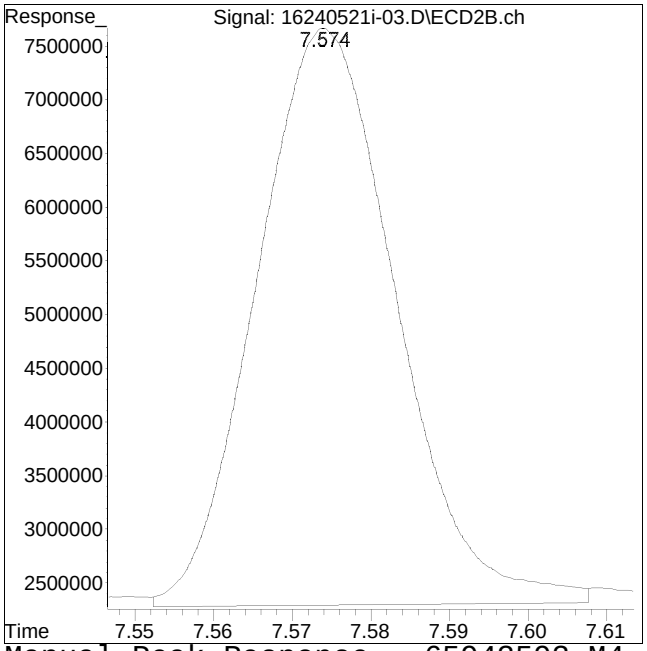
Original Peak Response = 7836207 Manual Peak Response = 7761948 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240521iQMethod : Herb16_2024_05_21_ICAL.m
Data File : 16240521i-03.D Operator : pest16:jag
Date Inj'd : 5/21/2024 6:20 pm Instrument : PEST16
Sample : il2herb,42e,,pp 11463 L0.1Quant Date : 5/24/2024 9:12 am

Compound #18: MCPP #2



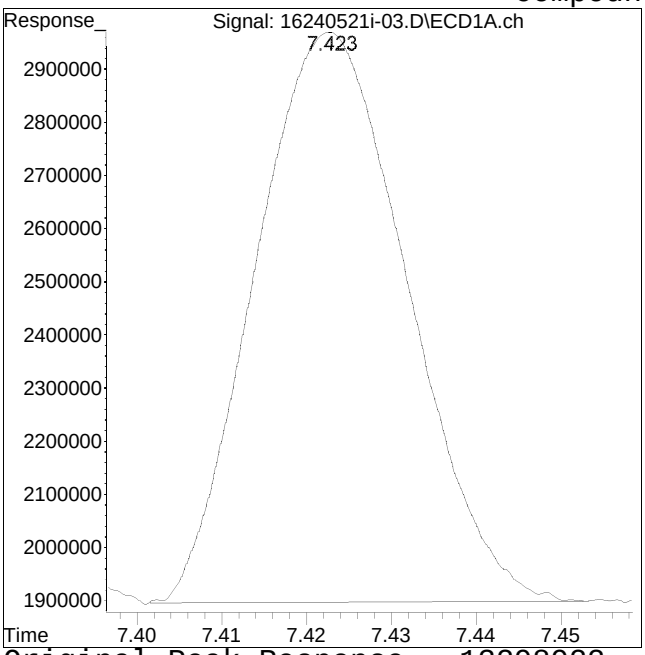


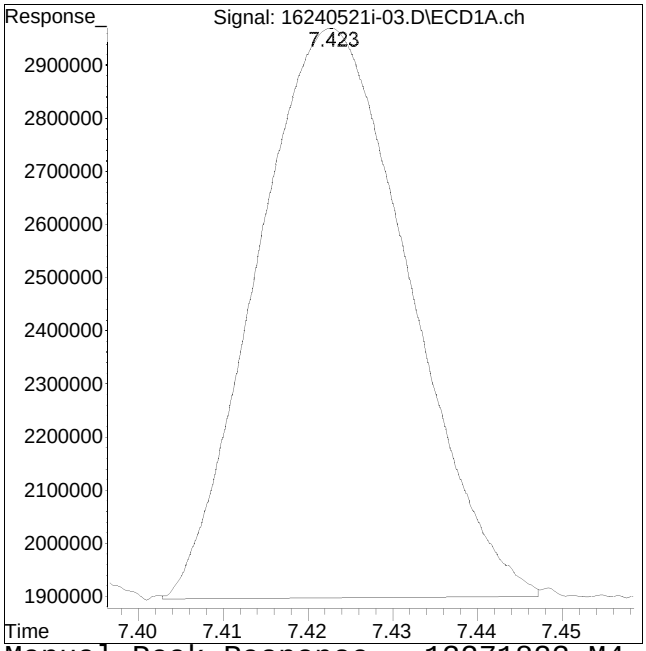
Original Peak Response = 67651914 Manual Peak Response = 65943593 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240521iQMethod : Herb16_2024_05_21_ICAL.m
Data File : 16240521i-03.D Operator : pest16:jag
Date Inj'd : 5/21/2024 6:20 pm Instrument : PEST16
Sample : il2herb,42e,,pp 11463 L0.1Quant Date : 5/24/2024 9:12 am

Compound #6: MCPA



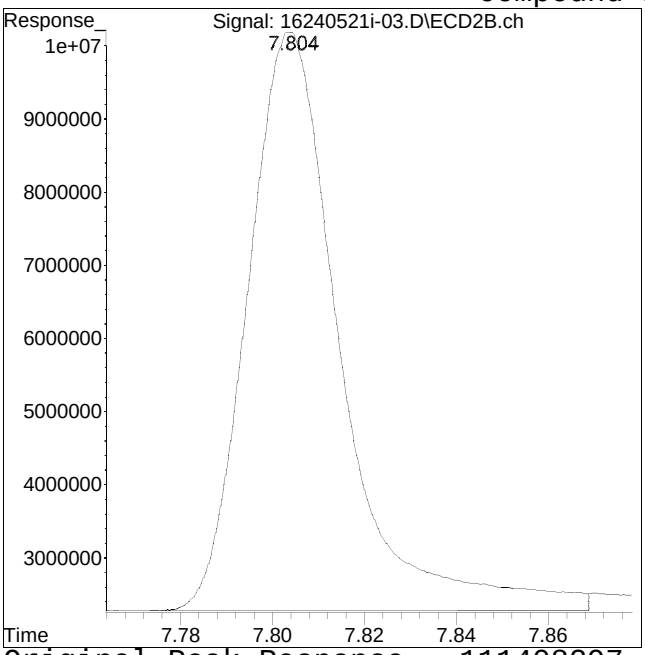


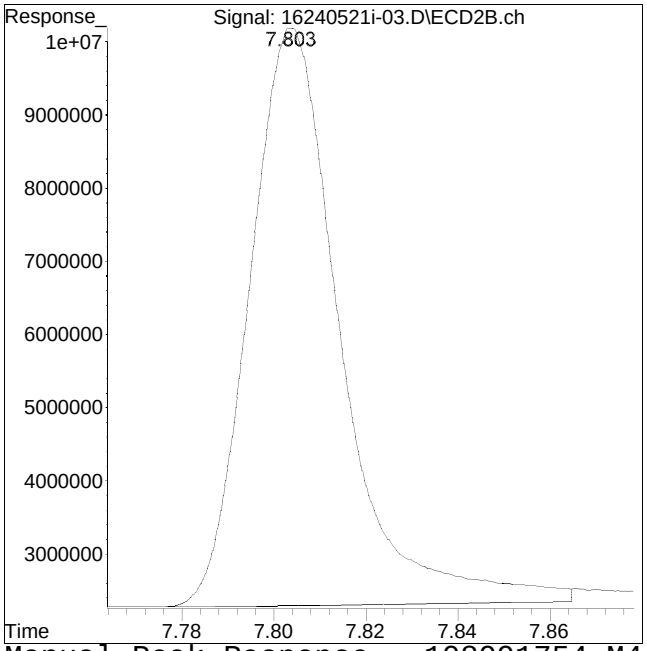
Original Peak Response = 13298922 Manual Peak Response = 13271823 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240521iQMethod : Herb16_2024_05_21_ICAL.m
Data File : 16240521i-03.D Operator : pest16:jag
Date Inj'd : 5/21/2024 6:20 pm Instrument : PEST16
Sample : il2herb,42e,,pp 11463 L0.1Quant Date : 5/24/2024 9:12 am

Compound #19: MCPA #2



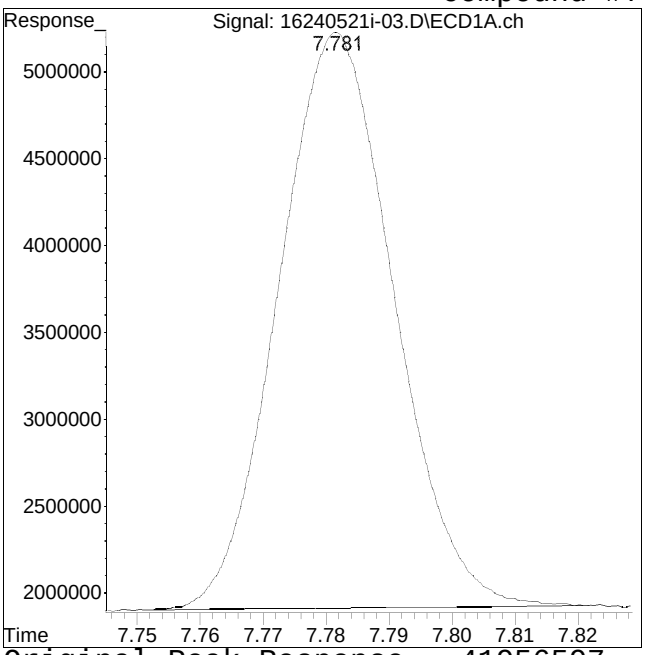


Original Peak Response = 111408297 Manual Peak Response = 108991754 M4
M4 = Poor automated baseline construction.

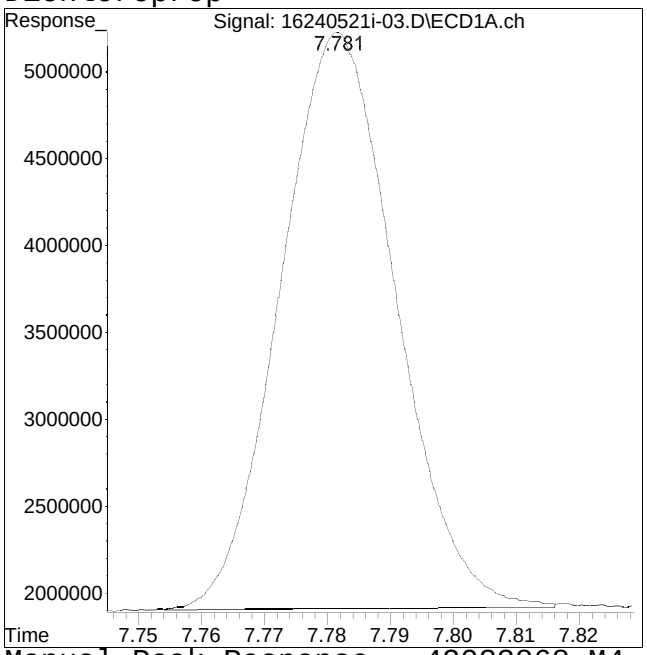
Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240521iQMethod : Herb16_2024_05_21_ICAL.m
Data File : 16240521i-03.D Operator : pest16:jag
Date Inj'd : 5/21/2024 6:20 pm Instrument : PEST16
Sample : il2herb,42e,,pp 11463 L0.1Quant Date : 5/24/2024 9:12 am

Compound #7: Dichloroprop



Original Peak Response = 41956597



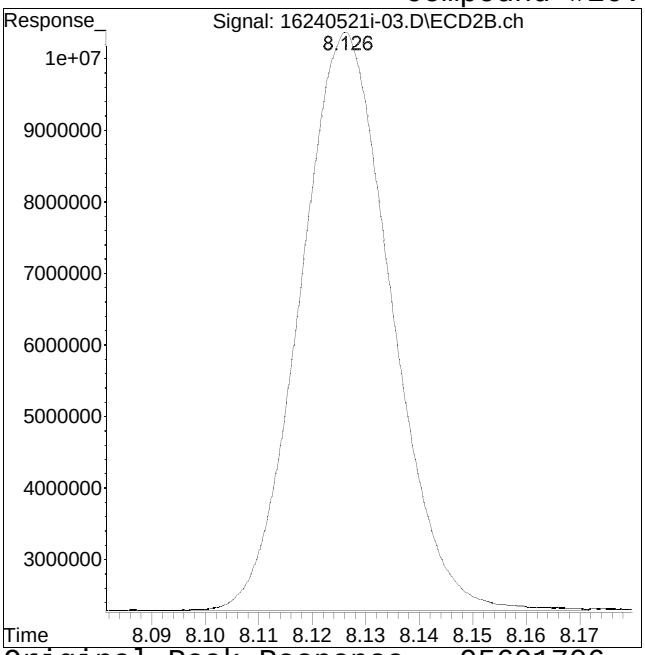
Manual Peak Response = 42033868 M4

M4 = Poor automated baseline construction.

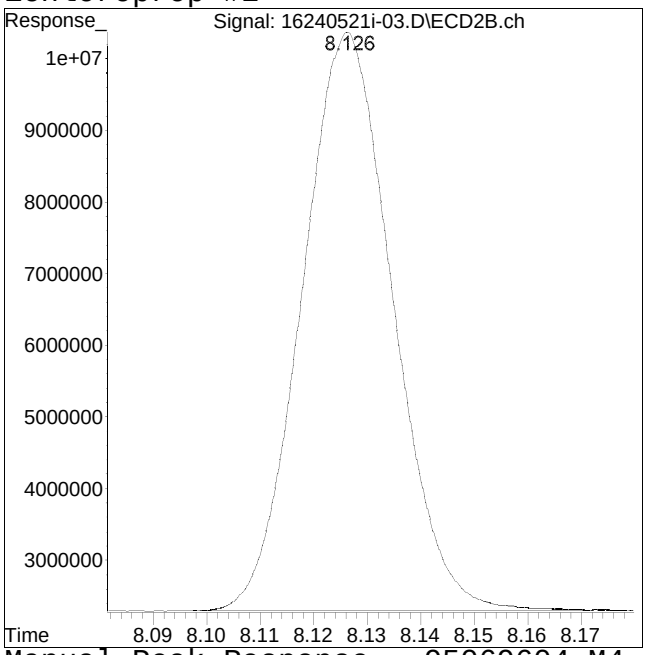
Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240521iQMethod : Herb16_2024_05_21_ICAL.m
Data File : 16240521i-03.D Operator : pest16:jag
Date Inj'd : 5/21/2024 6:20 pm Instrument : PEST16
Sample : il2herb,42e,,pp 11463 L0.1Quant Date : 5/24/2024 9:12 am

Compound #20: Dichloroprop #2



Original Peak Response = 95601706



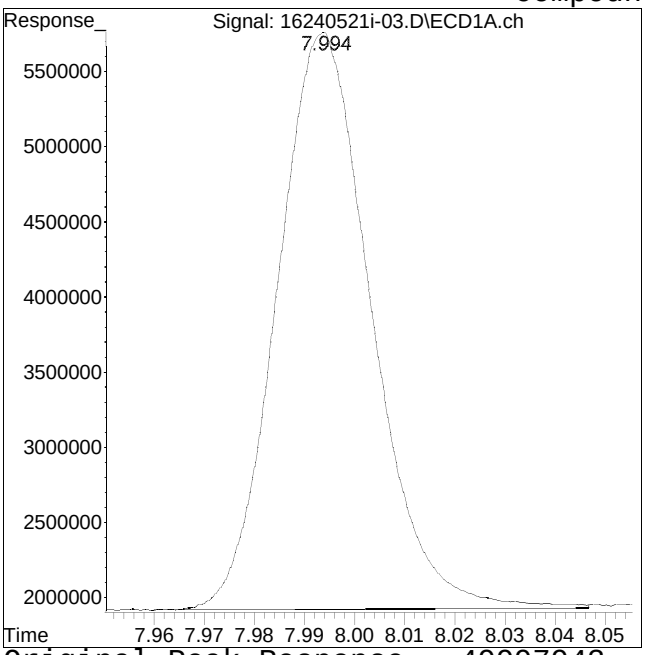
Manual Peak Response = 95069604 M4

M4 = Poor automated baseline construction.

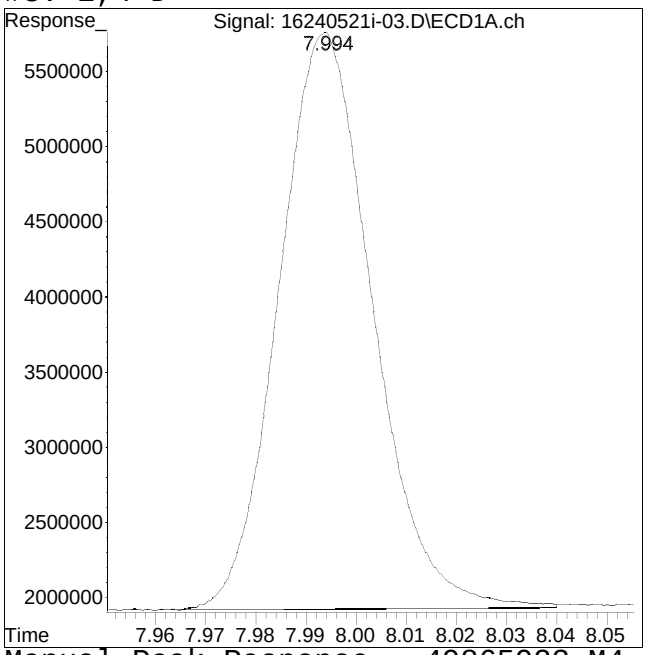
Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240521iQMethod : Herb16_2024_05_21_ICAL.m
Data File : 16240521i-03.D Operator : pest16:jag
Date Inj'd : 5/21/2024 6:20 pm Instrument : PEST16
Sample : il2herb,42e,,pp 11463 L0.1Quant Date : 5/24/2024 9:12 am

Compound #8: 2,4-D



Original Peak Response = 49997943



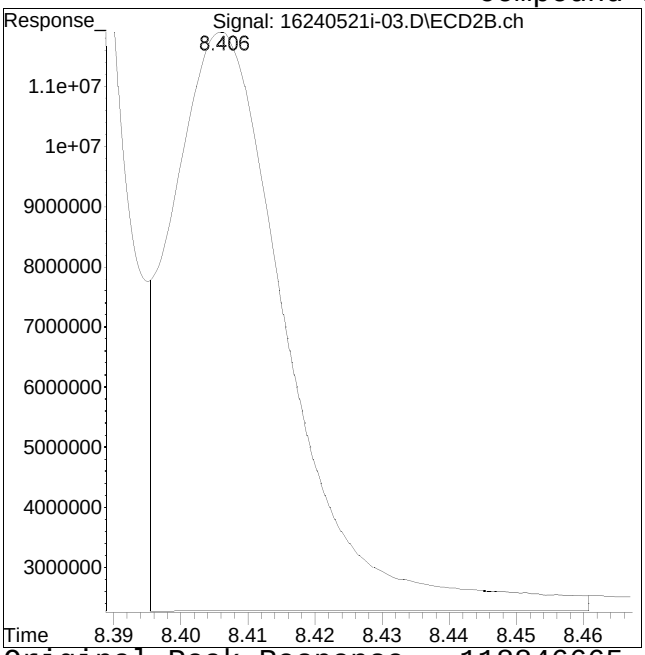
Manual Peak Response = 49865923 M4

M4 = Poor automated baseline construction.

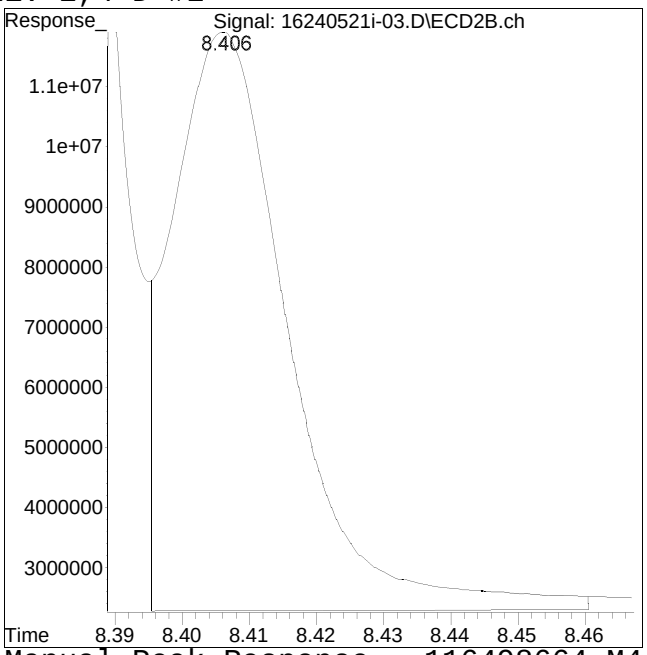
Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240521iQMethod : Herb16_2024_05_21_ICAL.m
Data File : 16240521i-03.D Operator : pest16:jag
Date Inj'd : 5/21/2024 6:20 pm Instrument : PEST16
Sample : il2herb,42e,,pp 11463 L0.1Quant Date : 5/24/2024 9:12 am

Compound #21: 2,4-D #2



Original Peak Response = 118846665

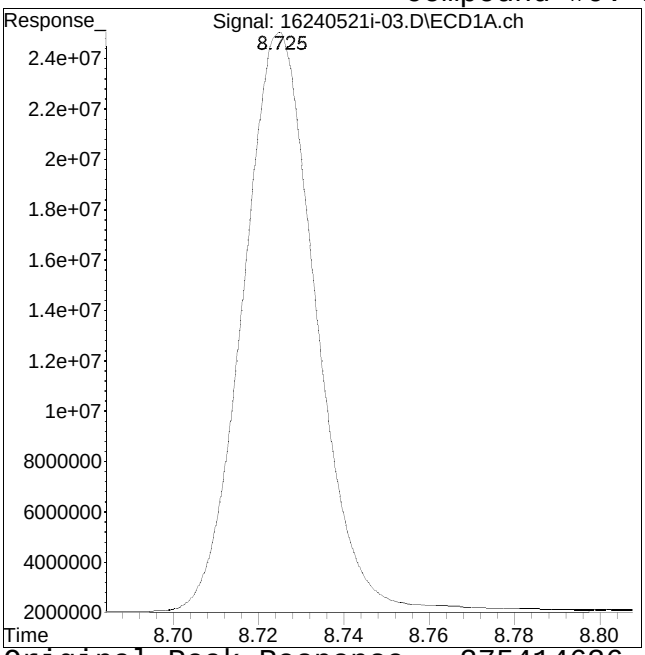


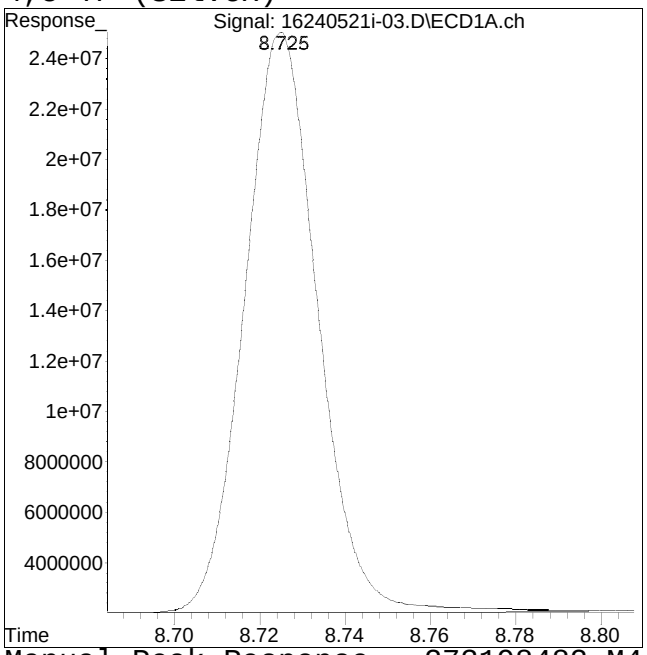
Manual Peak Response = 116498664 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240521iQMethod : Herb16_2024_05_21_ICAL.m
Data File : 16240521i-03.D Operator : pest16:jag
Date Inj'd : 5/21/2024 6:20 pm Instrument : PEST16
Sample : il2herb,42e,,pp 11463 L0.1Quant Date : 5/24/2024 9:12 am

Compound #9: 2,4,5-TP (Silvex)



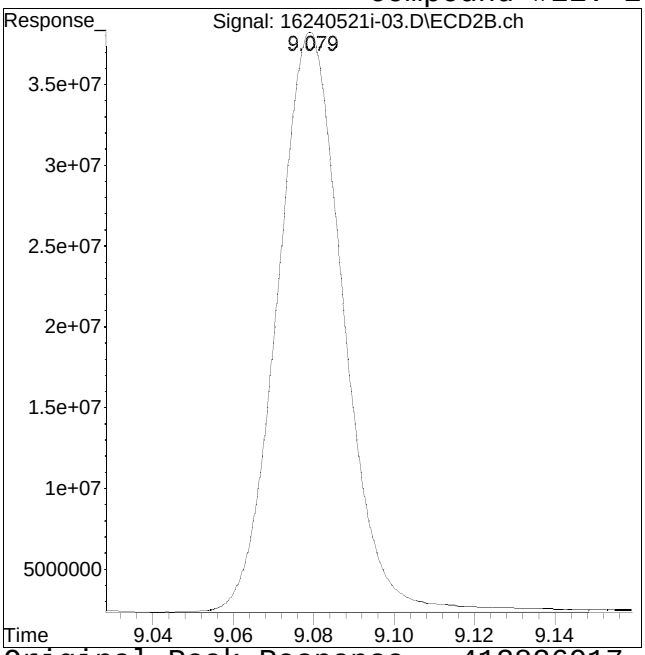


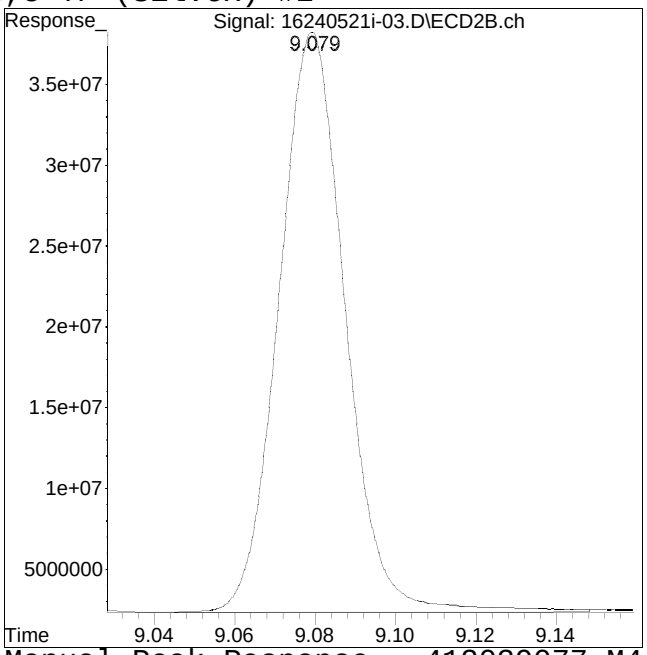
Original Peak Response = 275414636 Manual Peak Response = 273198482 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240521iQMethod : Herb16_2024_05_21_ICAL.m
Data File : 16240521i-03.D Operator : pest16:jag
Date Inj'd : 5/21/2024 6:20 pm Instrument : PEST16
Sample : il2herb,42e,,pp 11463 L0.1Quant Date : 5/24/2024 9:12 am

Compound #22: 2,4,5-TP (Silvex) #2



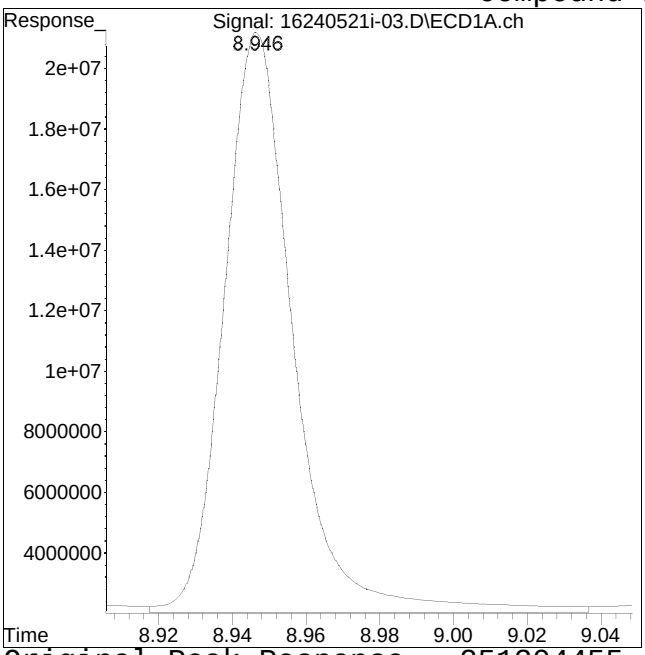


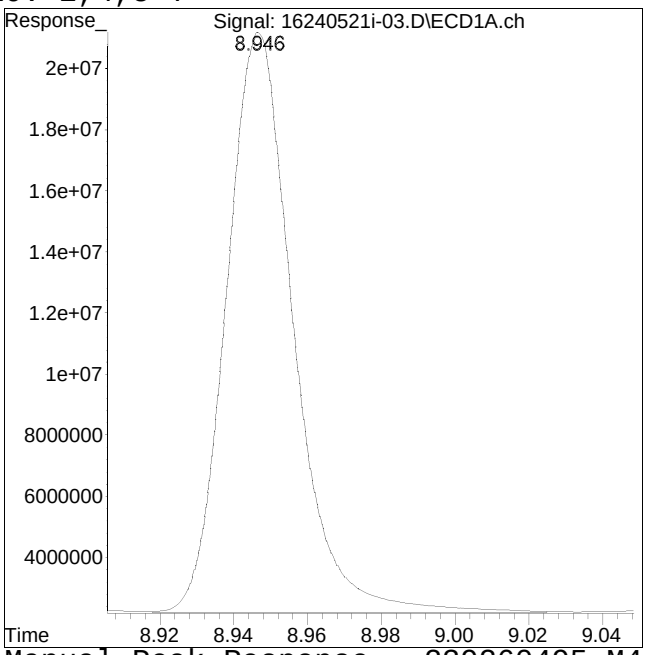
Original Peak Response = 412826917 Manual Peak Response = 412039077 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240521iQMethod : Herb16_2024_05_21_ICAL.m
Data File : 16240521i-03.D Operator : pest16:jag
Date Inj'd : 5/21/2024 6:20 pm Instrument : PEST16
Sample : il2herb,42e,,pp 11463 L0.1Quant Date : 5/24/2024 9:12 am

Compound #10: 2,4,5-T



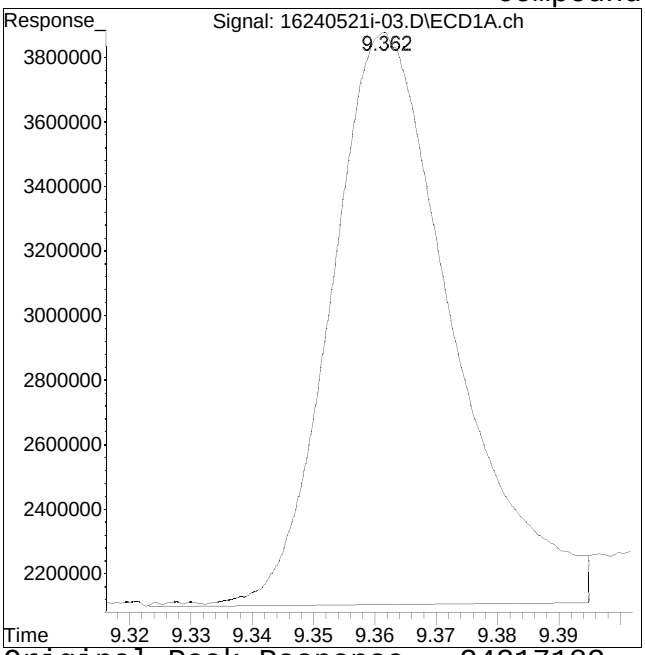


Original Peak Response = 251304455 Manual Peak Response = 239260495 M4
M4 = Poor automated baseline construction.

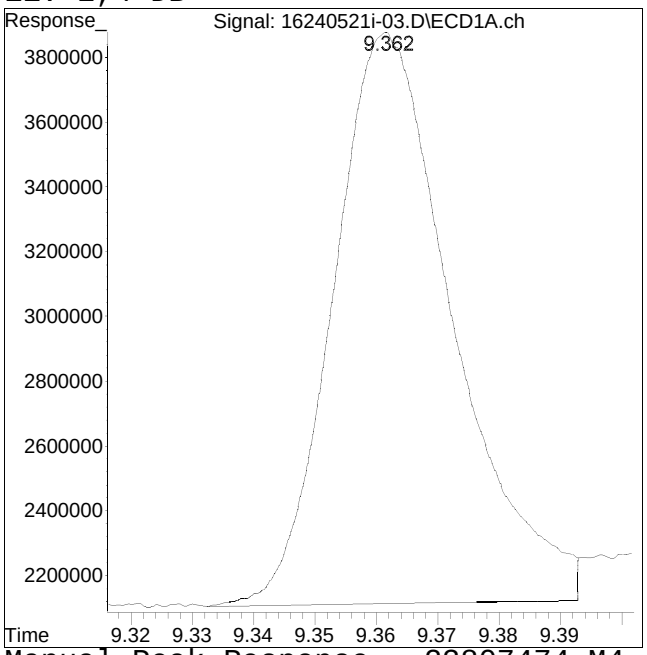
Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240521iQMethod : Herb16_2024_05_21_ICAL.m
Data File : 16240521i-03.D Operator : pest16:jag
Date Inj'd : 5/21/2024 6:20 pm Instrument : PEST16
Sample : il2herb,42e,,pp 11463 L0.1Quant Date : 5/24/2024 9:12 am

Compound #11: 2,4-DB



Original Peak Response = 24317183



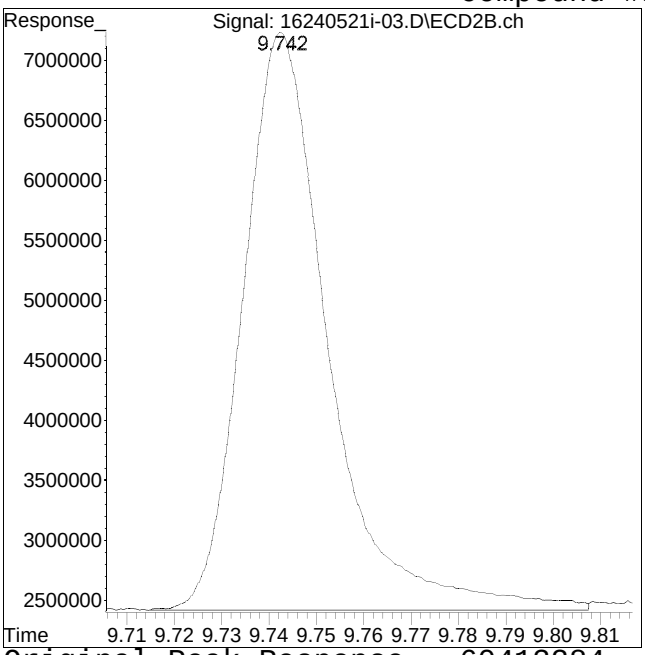
Manual Peak Response = 23807474 M4

M4 = Poor automated baseline construction.

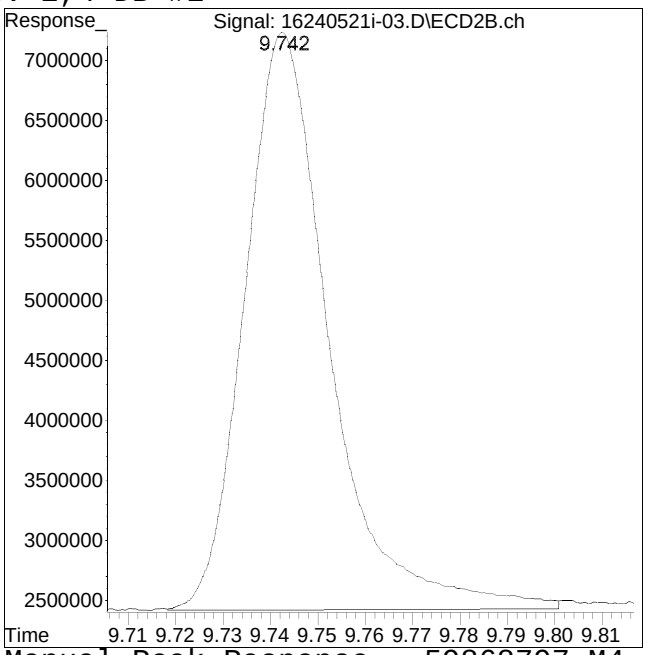
Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240521iQMethod : Herb16_2024_05_21_ICAL.m
Data File : 16240521i-03.D Operator : pest16:jag
Date Inj'd : 5/21/2024 6:20 pm Instrument : PEST16
Sample : il2herb,42e,,pp 11463 L0.1Quant Date : 5/24/2024 9:12 am

Compound #24: 2,4-DB #2



Original Peak Response = 60413284



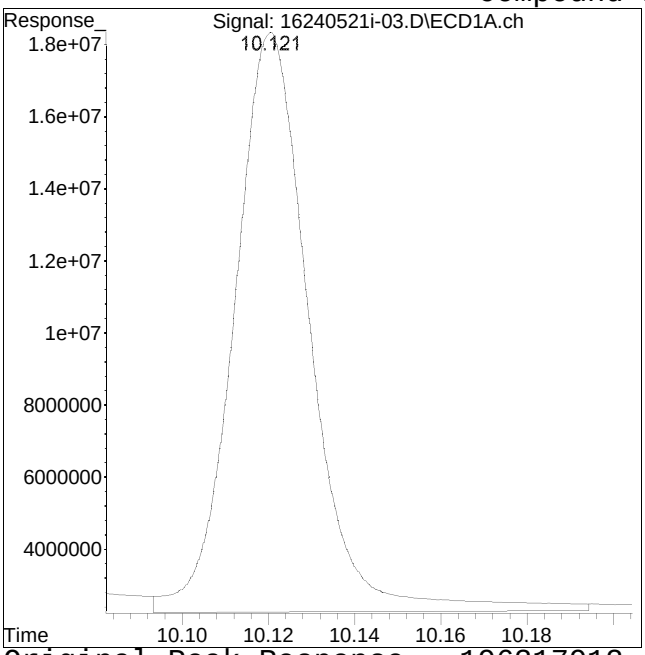
Manual Peak Response = 59868797 M4

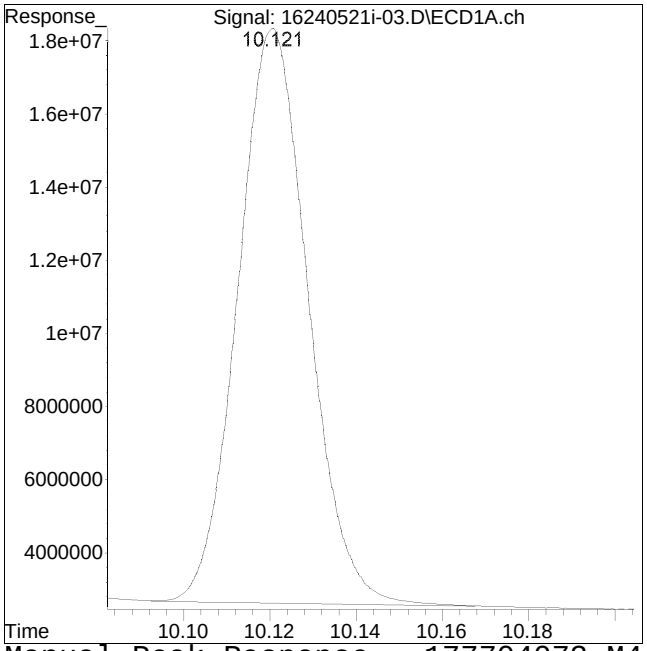
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240521iQMethod : Herb16_2024_05_21_ICAL.m
Data File : 16240521i-03.D Operator : pest16:jag
Date Inj'd : 5/21/2024 6:20 pm Instrument : PEST16
Sample : il2herb,42e,,pp 11463 L0.1Quant Date : 5/24/2024 9:12 am

Compound #12: Dinoseb



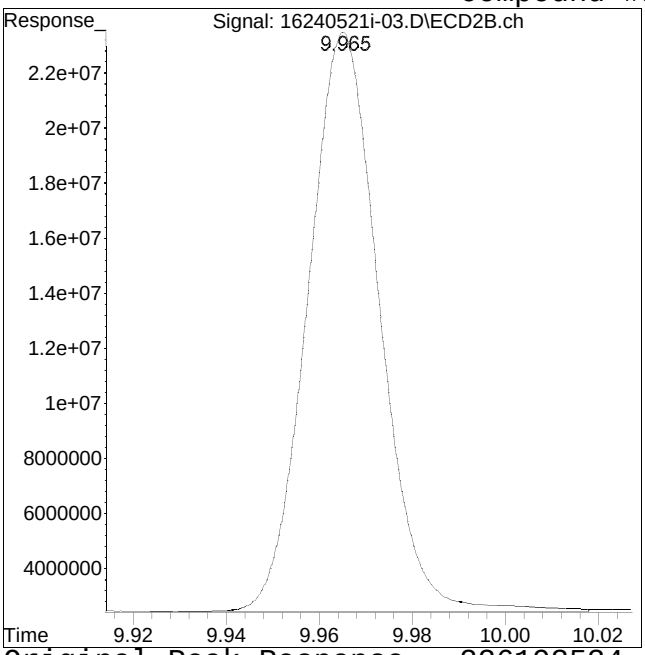


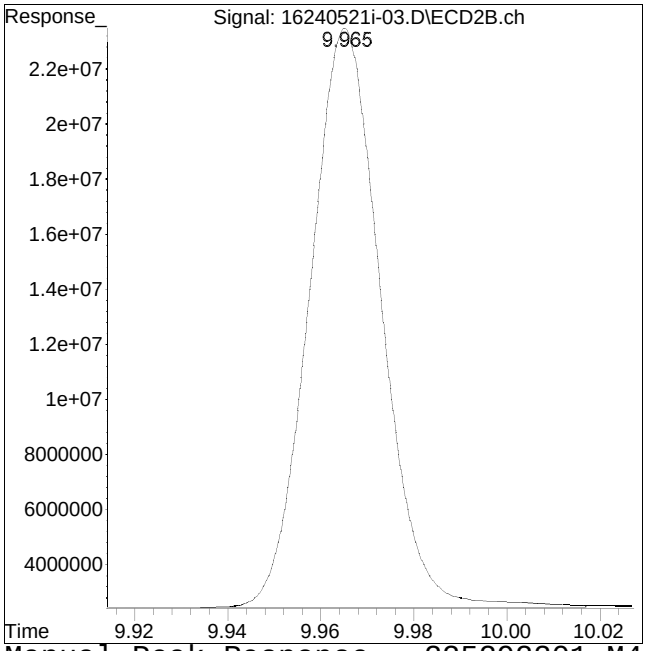
Original Peak Response = 196317912 Manual Peak Response = 177704073 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240521iQMethod : Herb16_2024_05_21_ICAL.m
Data File : 16240521i-03.D Operator : pest16:jag
Date Inj'd : 5/21/2024 6:20 pm Instrument : PEST16
Sample : il2herb,42e,,pp 11463 L0.1Quant Date : 5/24/2024 9:12 am

Compound #25: Dinoseb #2





Original Peak Response = 226193534 Manual Peak Response = 225292201 M4
M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest16\2024\240521ical\
Data File : 16240521i-04.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 21 May 2024 6:38 pm
Operator : pest16:jag
Sample : il3herb,42e,,pp 11462 L0.2/20
Misc : wg1925170, (Sig #1); ,,ical (Sig #2)
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 24 09:12:37 2024
Quant Method : I:\PCB\Pest16\2024\240521ical\Herb16_2024_05_21_ICAL.m
Quant Title : herb
QLast Update : Fri May 24 09:12:37 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

		Compound	RT#1	RT#2	Resp#1	Resp#2	mg/l	mg/l
		Internal Standards						
1)	i	4,4'-DBOB	8.450	8.371	981.8E6	1372.9E6	0.250M4	0.250M4
		System Monitoring Compounds						
3)	s	DCAA (surrog	6.877	7.271	63770642	200.3E6	0.198M4	0.205M4
		Spiked Amount	0.500	Range 30 - 150		Recovery =	39.60%	41.00%
		Target Compounds						
2)	t	Dalapon	1.869	1.824	108.3E6	186.6E6	0.182	0.190M4
4)	t	Dicamba	7.062	7.451	285.2E6	593.3E6	0.185M4	0.192M4
5)	t	MCPP	7.271	7.571	16356830	122.8E6	19.789M4	20.586M4
6)	t	MCPA	7.420	7.801	25958757	194.4E6	19.635M4	20.308M4
7)	t	Dichloroprop	7.778	8.124	82393911	185.6E6	0.189M4	0.194M4
8)	t	2,4-D	7.990	8.403	98220562	226.8E6	0.189M4	0.191M4
9)	t	2,4,5-TP (Si	8.722	9.076	575.7E6	822.5E6	0.187M4	0.194M4
10)	t	2,4,5-T	8.943	9.369	501.5E6	733.3E6	0.187M4	0.192M4
11)	t	2,4-DB	9.358	9.740	49891318	120.5E6	0.196M4	0.192M4
12)	t	Dinoseb	10.117	9.963	371.3E6	449.7E6	0.187M4	0.194M4

SemiQuant Compounds - Not Calibrated on this Instrument

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest16\2024\240521ical\
Data File : 16240521i-04.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 21 May 2024 6:38 pm
Operator : pest16:jag
Sample : il3herb,42e,,pp 11462 L0.2/20
Misc : wg1925170, (Sig #1); ,,ical (Sig #2)
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 24 09:12:37 2024
Quant Method : I:\PCB\Pest16\2024\240521ical\Herb16_2024_05_21_ICAL.m
Quant Title : herb
QLast Update : Fri May 24 09:12:37 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	mg/l	mg/l

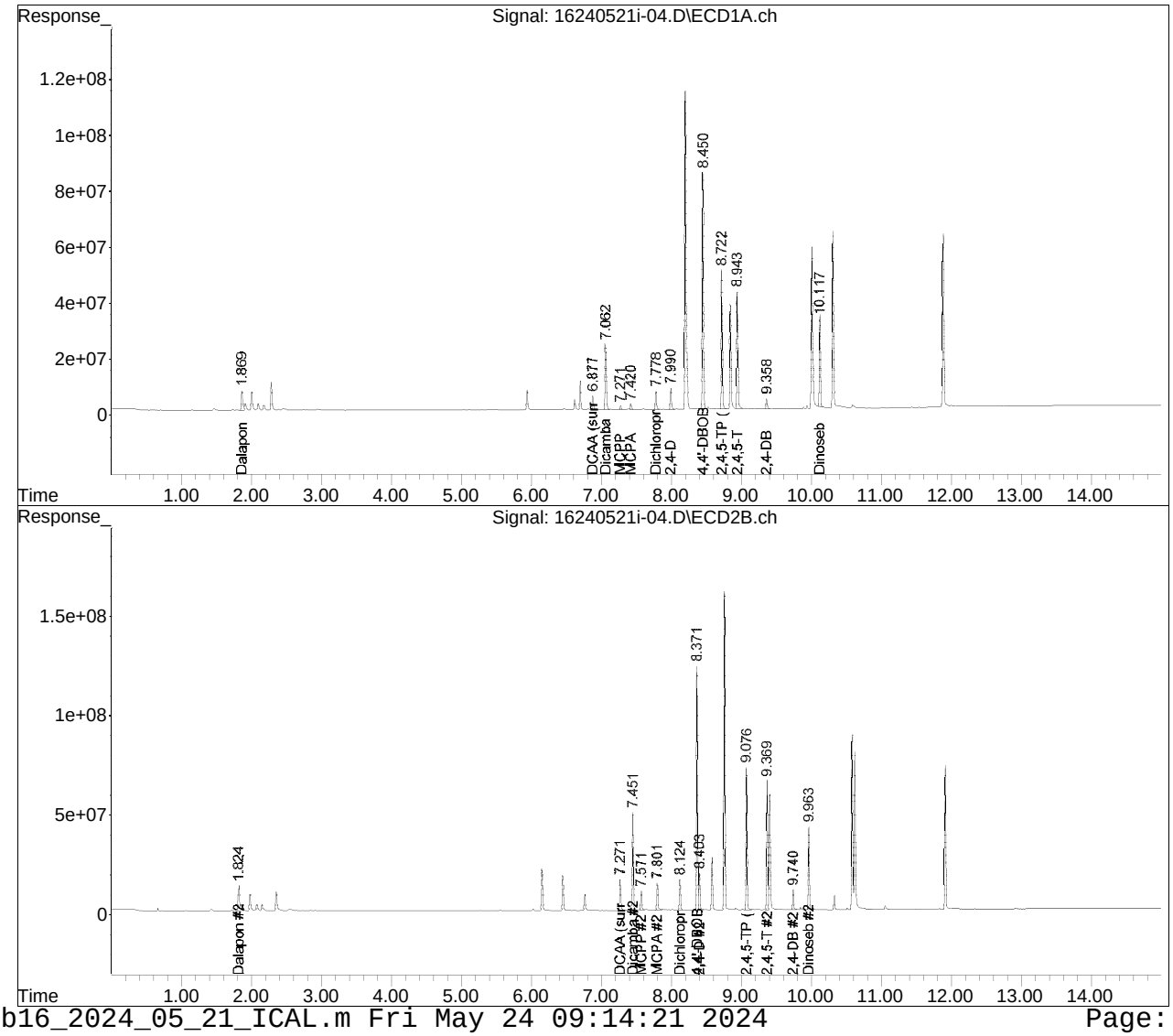
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PCB\Pest16\2024\240521ical\
Data File : 16240521i-04.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 21 May 2024 6:38 pm
Operator : pest16:jag
Sample : il3herb,42e,,pp 11462 L0.2/20
Misc : wg1925170, (Sig #1); ,,ical (Sig #2)
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 24 09:12:37 2024
Quant Method : I:\PCB\Pest16\2024\240521ical\Herb16_2024_05_21_ICAL.m
Quant Title : herb
QLast Update : Fri May 24 09:12:37 2024
Response via : Initial Calibration
Integrator: ChemStation

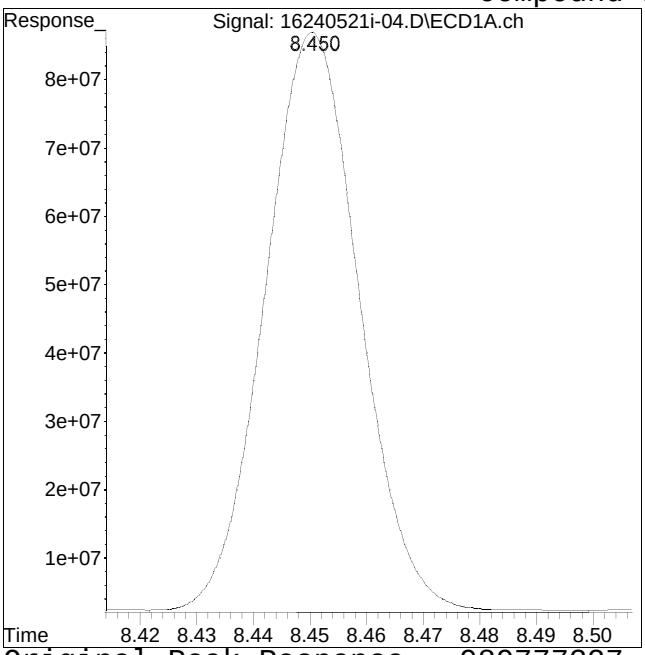
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

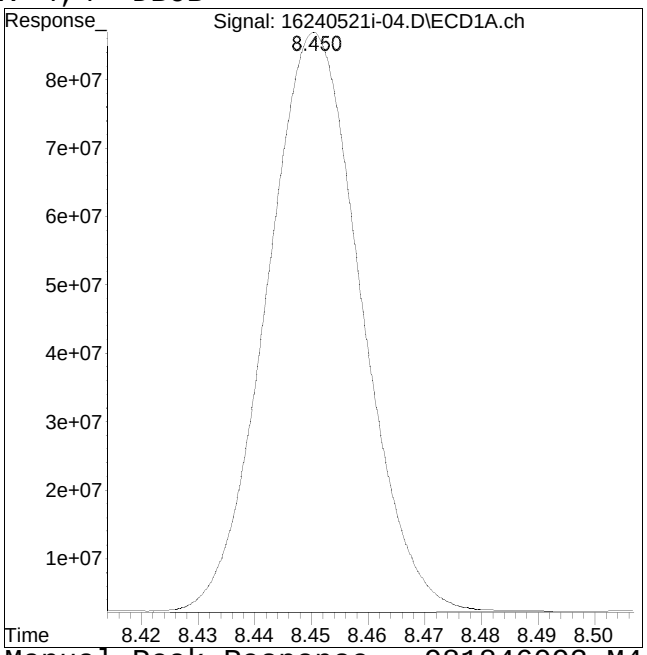


Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240521iQMethod : Herb16_2024_05_21_ICAL.m
Data File : 16240521i-04.D Operator : pest16:jag
Date Inj'd : 5/21/2024 6:38 pm Instrument : PEST16
Sample : il3herb,42e,,pp 11462 L0.2Quant Date : 5/24/2024 9:12 am

Compound #1: 4,4'-DBOB



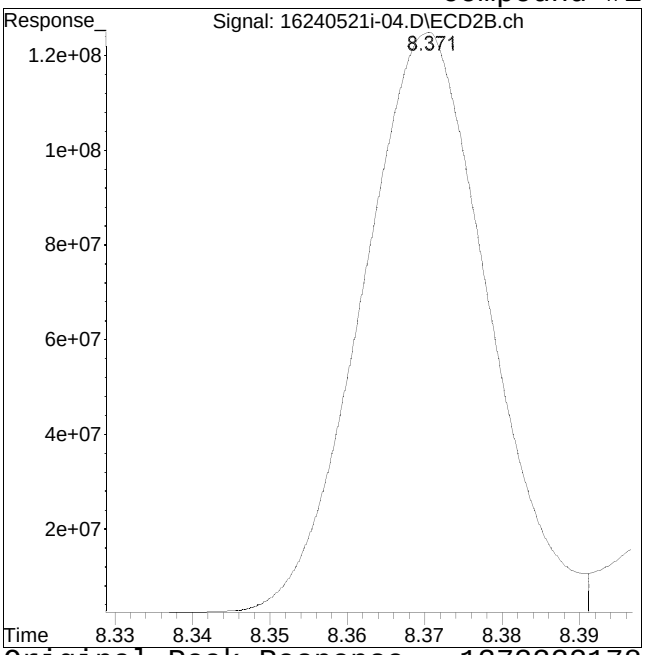


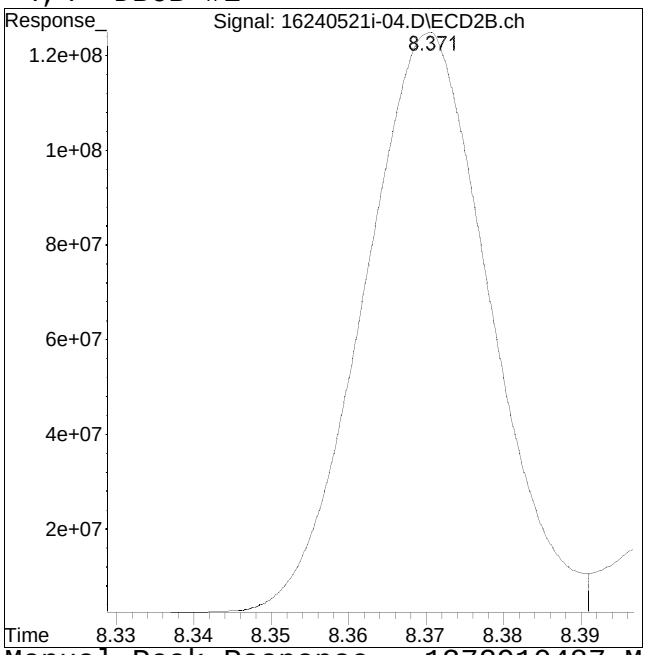
Original Peak Response = 989777327 Manual Peak Response = 981846093 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240521iQMethod : Herb16_2024_05_21_ICAL.m
Data File : 16240521i-04.D Operator : pest16:jag
Date Inj'd : 5/21/2024 6:38 pm Instrument : PEST16
Sample : il3herb,42e,,pp 11462 L0.2Quant Date : 5/24/2024 9:12 am

Compound #14: 4,4'-DBOB #2



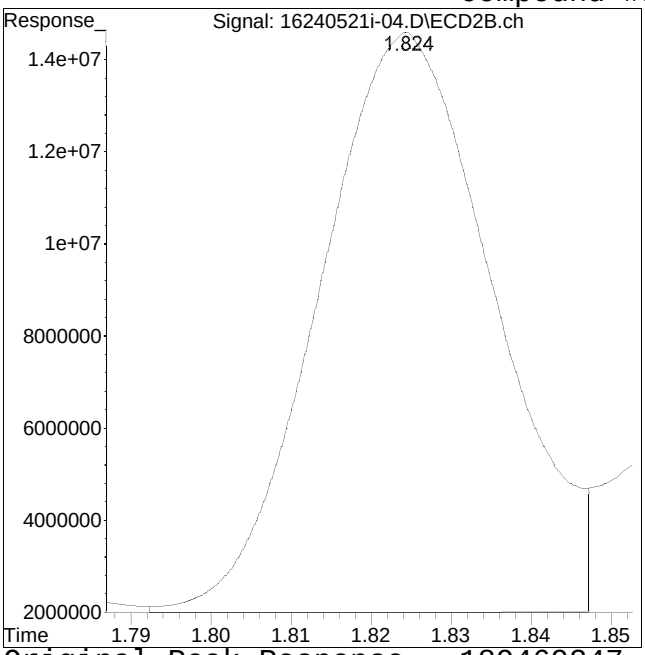


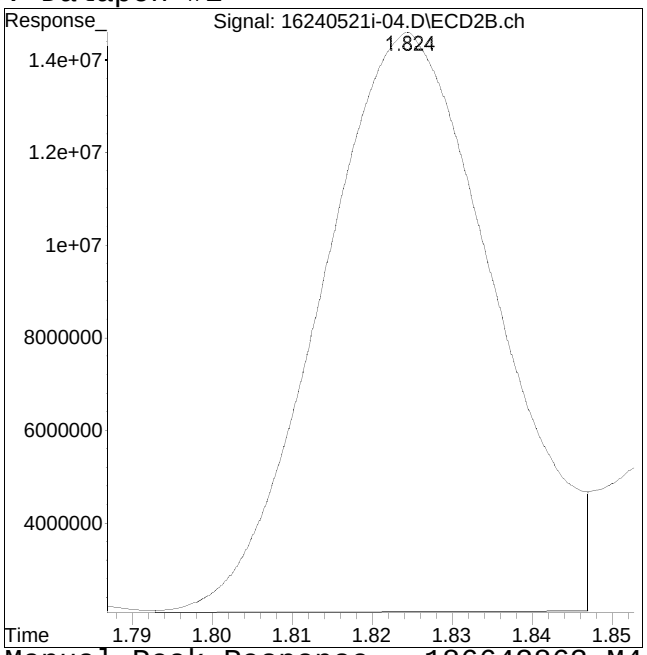
Original Peak Response = 1373333178 Manual Peak Response = 1372910487 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240521iQMethod : Herb16_2024_05_21_ICAL.m
Data File : 16240521i-04.D Operator : pest16:jag
Date Inj'd : 5/21/2024 6:38 pm Instrument : PEST16
Sample : il3herb,42e,,pp 11462 L0.2Quant Date : 5/24/2024 9:12 am

Compound #15: Dalapon #2



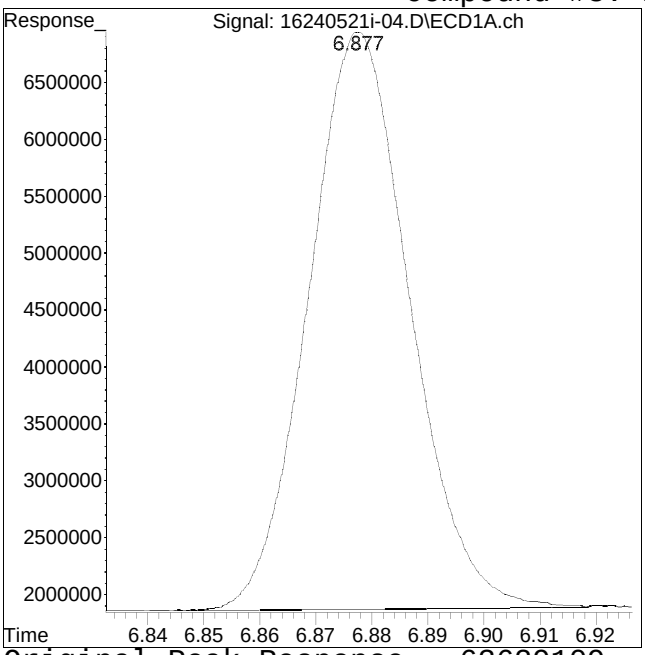


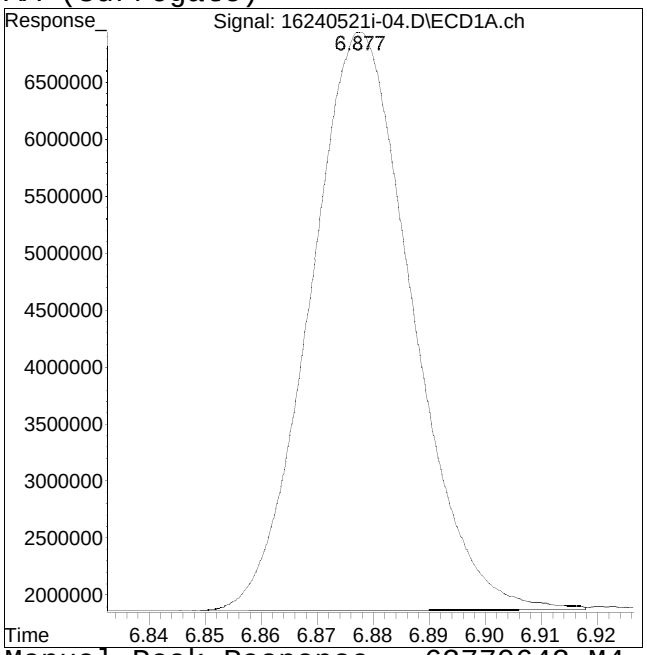
Original Peak Response = 189469247 Manual Peak Response = 186642863 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240521iQMethod : Herb16_2024_05_21_ICAL.m
Data File : 16240521i-04.D Operator : pest16:jag
Date Inj'd : 5/21/2024 6:38 pm Instrument : PEST16
Sample : il3herb,42e,,pp 11462 L0.2Quant Date : 5/24/2024 9:12 am

Compound #3: DCAA (surrogate)



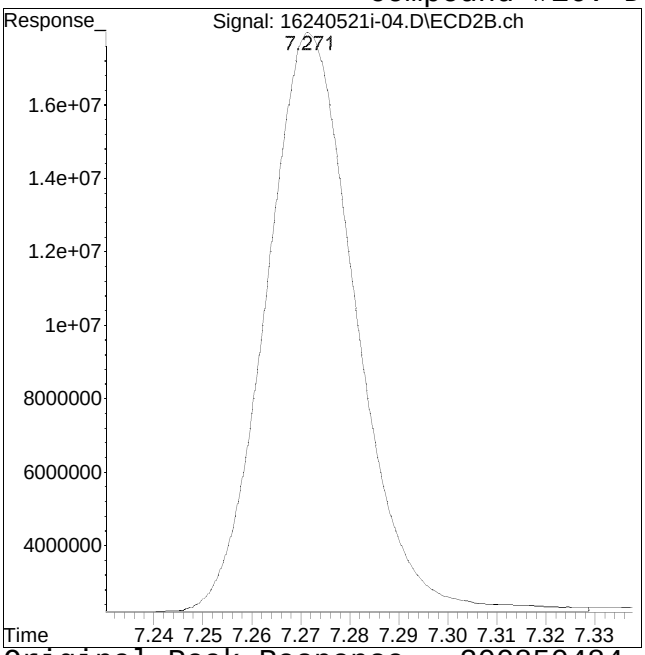


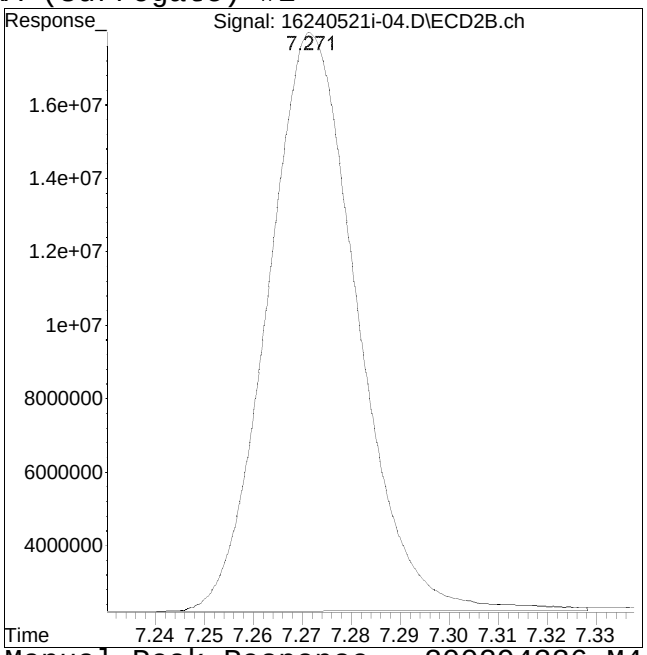
Original Peak Response = 63629109 Manual Peak Response = 63770642 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240521iQMethod : Herb16_2024_05_21_ICAL.m
Data File : 16240521i-04.D Operator : pest16:jag
Date Inj'd : 5/21/2024 6:38 pm Instrument : PEST16
Sample : il3herb,42e,,pp 11462 L0.2Quant Date : 5/24/2024 9:12 am

Compound #16: DCAA (surrogate) #2



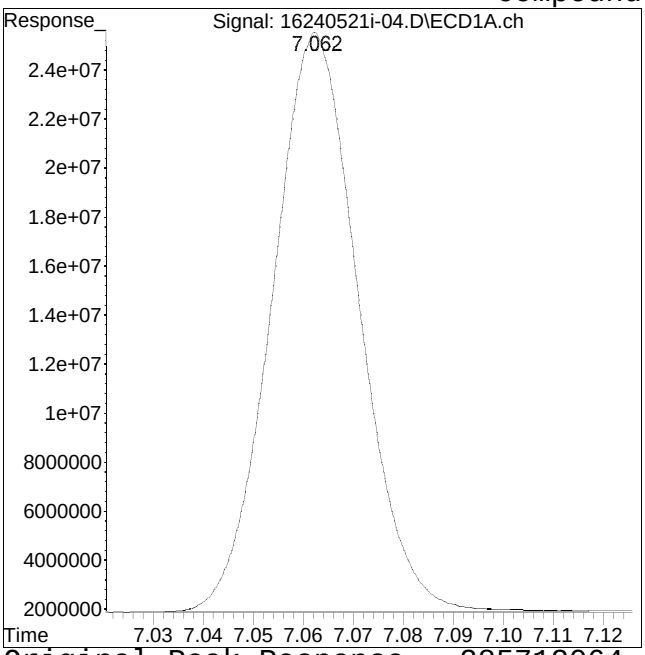


Original Peak Response = 200850484 Manual Peak Response = 200294336 M4
M4 = Poor automated baseline construction.

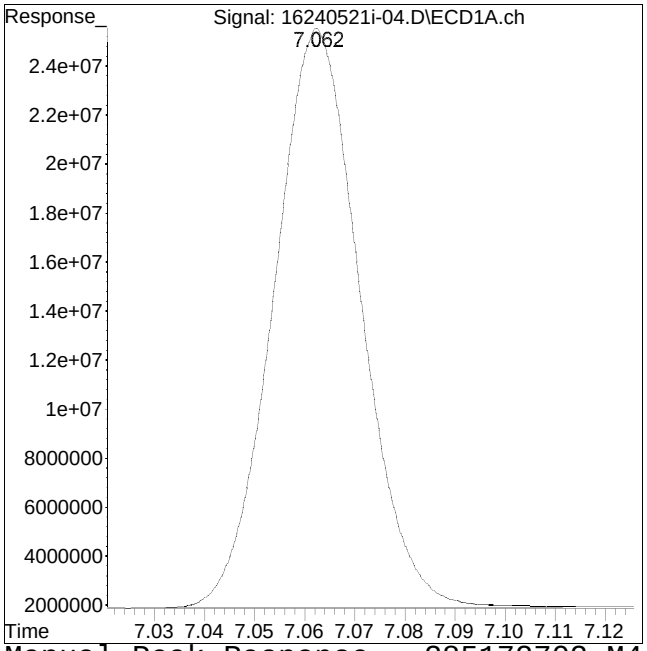
Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240521iQMethod : Herb16_2024_05_21_ICAL.m
Data File : 16240521i-04.D Operator : pest16:jag
Date Inj'd : 5/21/2024 6:38 pm Instrument : PEST16
Sample : il3herb,42e,,pp 11462 L0.2Quant Date : 5/24/2024 9:12 am

Compound #4: Dicamba



Original Peak Response = 285712064



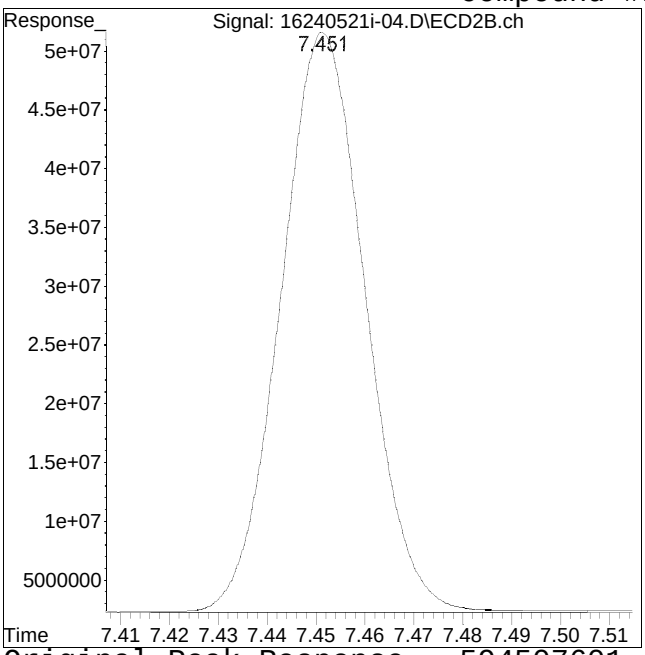
Manual Peak Response = 285172702 M4

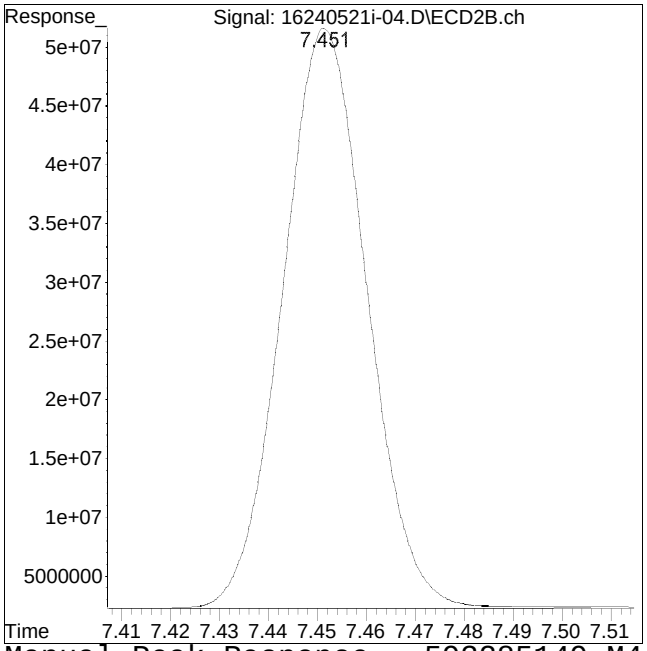
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240521iQMethod : Herb16_2024_05_21_ICAL.m
Data File : 16240521i-04.D Operator : pest16:jag
Date Inj'd : 5/21/2024 6:38 pm Instrument : PEST16
Sample : il3herb,42e,,pp 11462 L0.2Quant Date : 5/24/2024 9:12 am

Compound #17: Dicamba #2



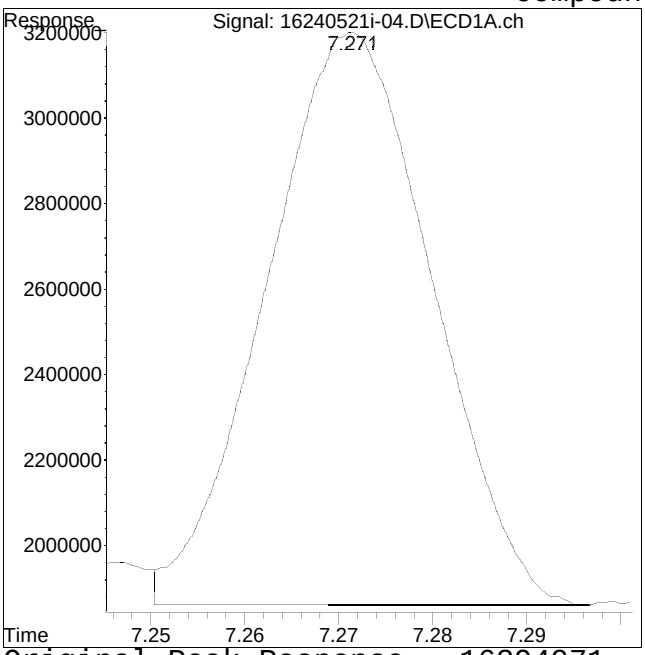


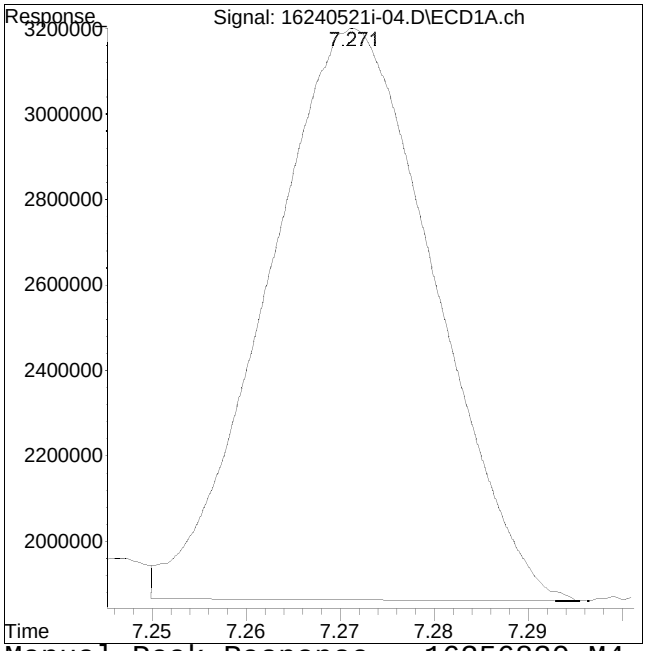
Original Peak Response = 594507601 Manual Peak Response = 593285149 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240521iQMethod : Herb16_2024_05_21_ICAL.m
Data File : 16240521i-04.D Operator : pest16:jag
Date Inj'd : 5/21/2024 6:38 pm Instrument : PEST16
Sample : il3herb,42e,,pp 11462 L0.2Quant Date : 5/24/2024 9:12 am

Compound #5: MCPP



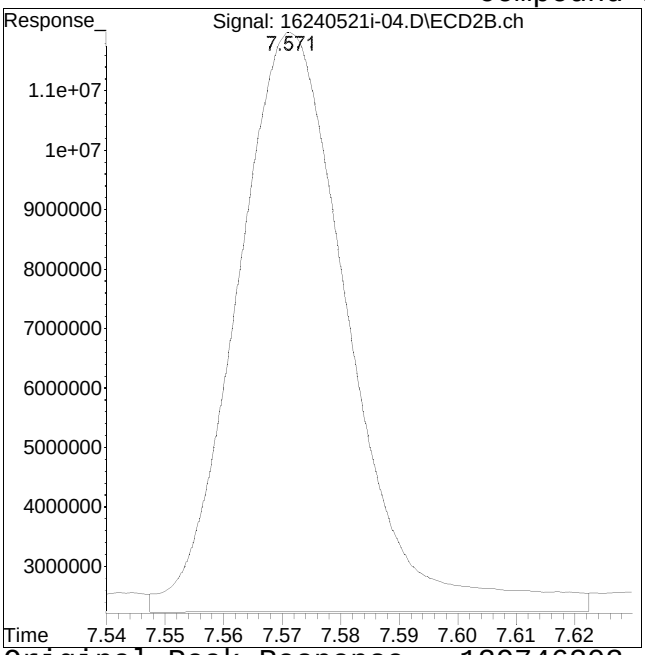


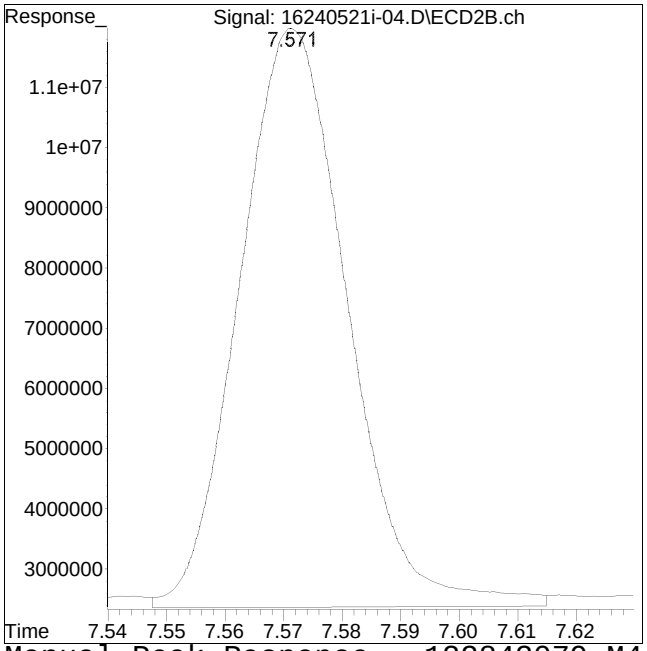
Original Peak Response = 16394971 Manual Peak Response = 16356830 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240521iQMethod : Herb16_2024_05_21_ICAL.m
Data File : 16240521i-04.D Operator : pest16:jag
Date Inj'd : 5/21/2024 6:38 pm Instrument : PEST16
Sample : il3herb,42e,,pp 11462 L0.2Quant Date : 5/24/2024 9:12 am

Compound #18: MCPP #2



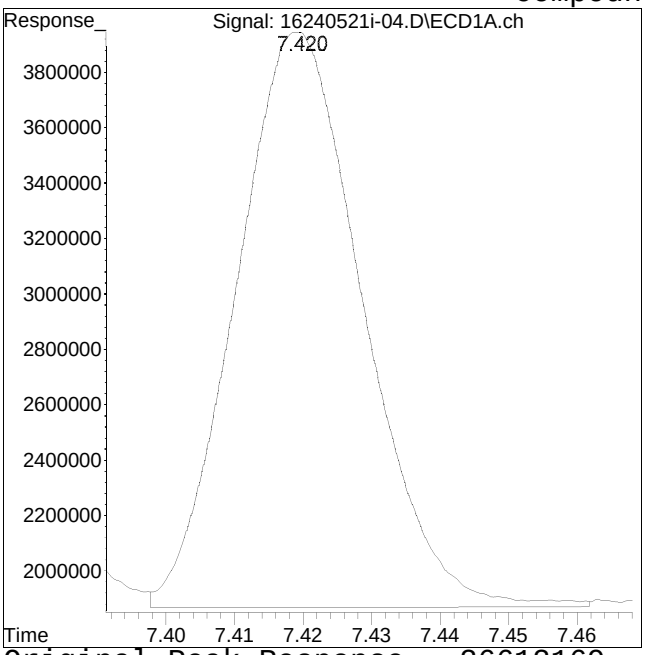


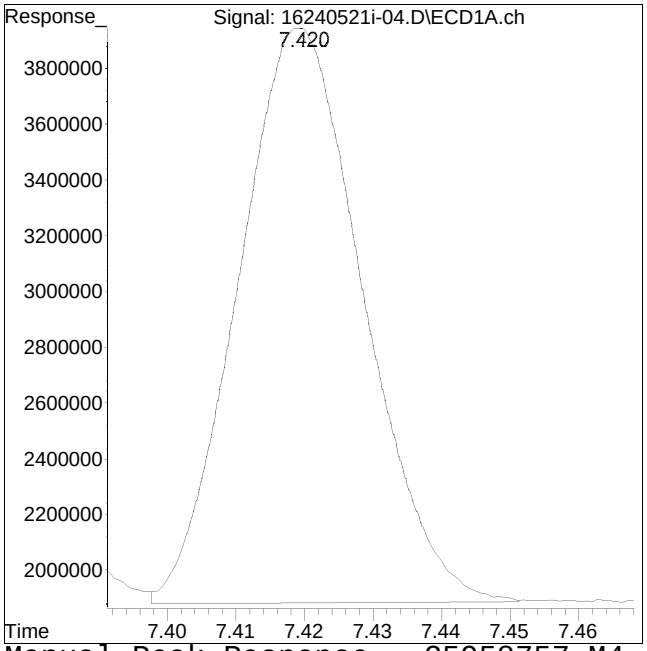
Original Peak Response = 129746303 Manual Peak Response = 122843079 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240521iQMethod : Herb16_2024_05_21_ICAL.m
Data File : 16240521i-04.D Operator : pest16:jag
Date Inj'd : 5/21/2024 6:38 pm Instrument : PEST16
Sample : il3herb,42e,,pp 11462 L0.2Quant Date : 5/24/2024 9:12 am

Compound #6: MCPA



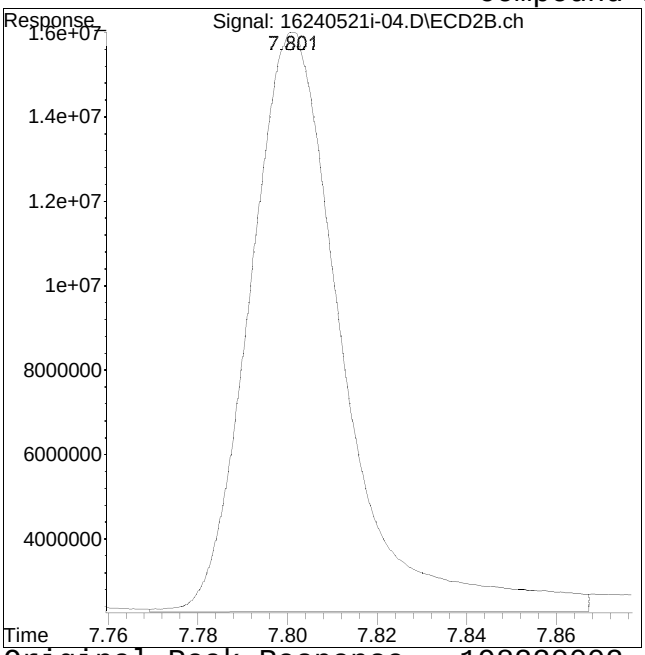


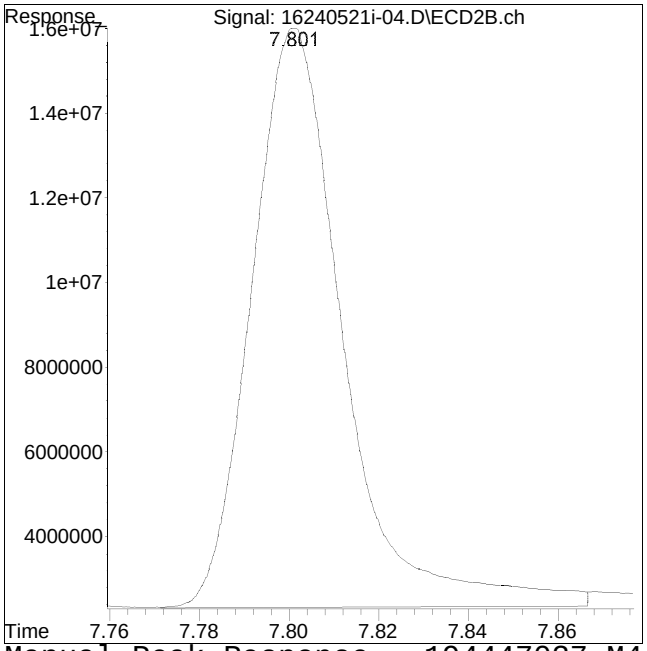
Original Peak Response = 26612169 Manual Peak Response = 25958757 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240521iQMethod : Herb16_2024_05_21_ICAL.m
Data File : 16240521i-04.D Operator : pest16:jag
Date Inj'd : 5/21/2024 6:38 pm Instrument : PEST16
Sample : il3herb,42e,,pp 11462 L0.2Quant Date : 5/24/2024 9:12 am

Compound #19: MCPA #2



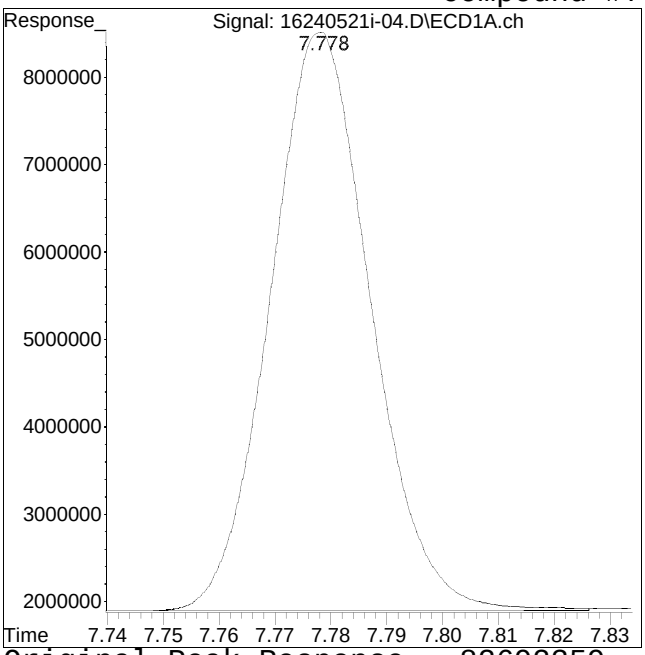


Original Peak Response = 198220002 Manual Peak Response = 194447037 M4
M4 = Poor automated baseline construction.

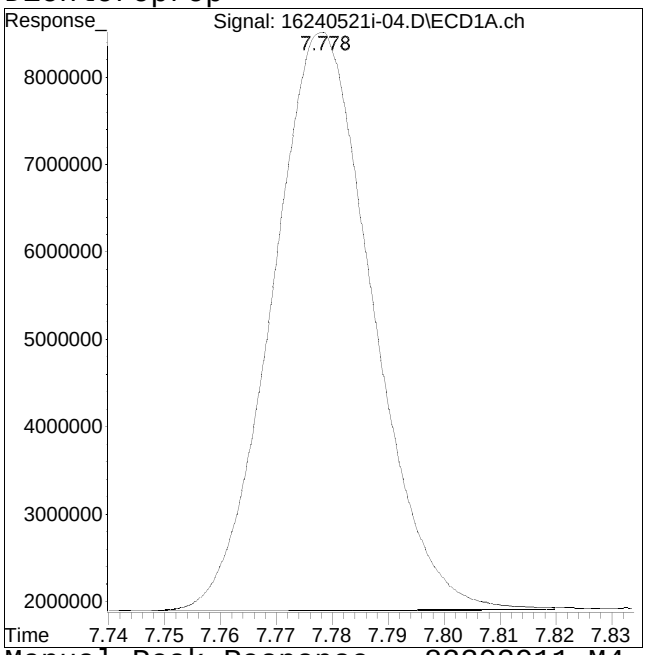
Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240521iQMethod : Herb16_2024_05_21_ICAL.m
Data File : 16240521i-04.D Operator : pest16:jag
Date Inj'd : 5/21/2024 6:38 pm Instrument : PEST16
Sample : il3herb,42e,,pp 11462 L0.2Quant Date : 5/24/2024 9:12 am

Compound #7: Dichloroprop



Original Peak Response = 82692359



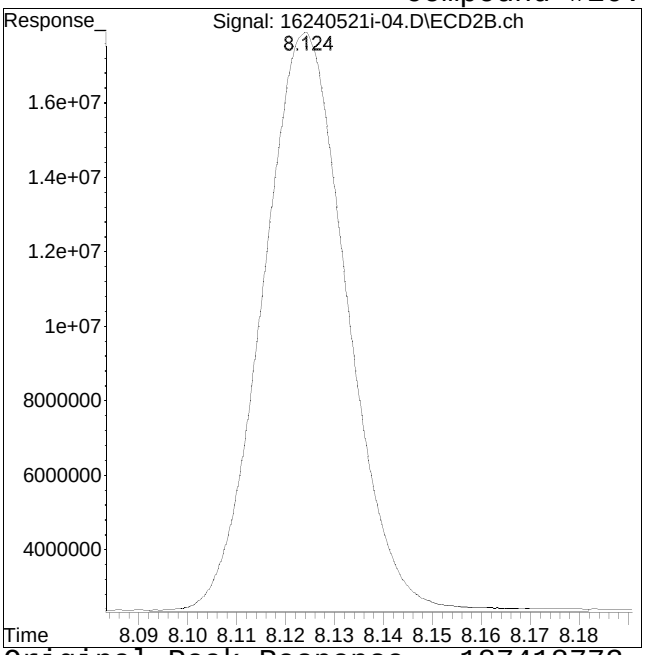
Manual Peak Response = 82393911 M4

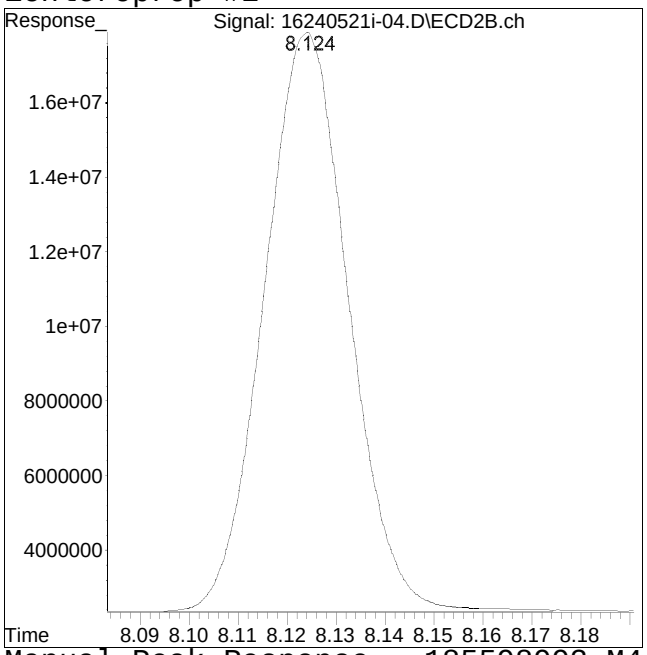
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240521iQMethod : Herb16_2024_05_21_ICAL.m
Data File : 16240521i-04.D Operator : pest16:jag
Date Inj'd : 5/21/2024 6:38 pm Instrument : PEST16
Sample : il3herb,42e,,pp 11462 L0.2Quant Date : 5/24/2024 9:12 am

Compound #20: Dichloroprop #2



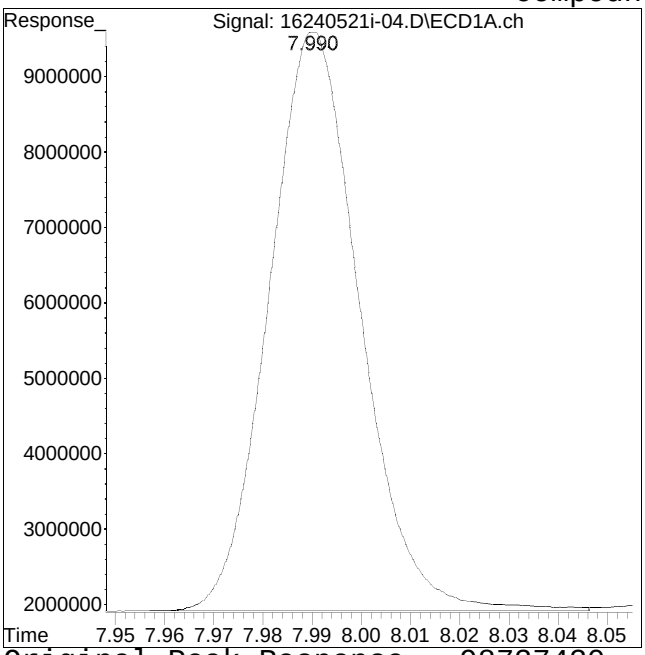


Original Peak Response = 187418773 Manual Peak Response = 185598993 M4
M4 = Poor automated baseline construction.

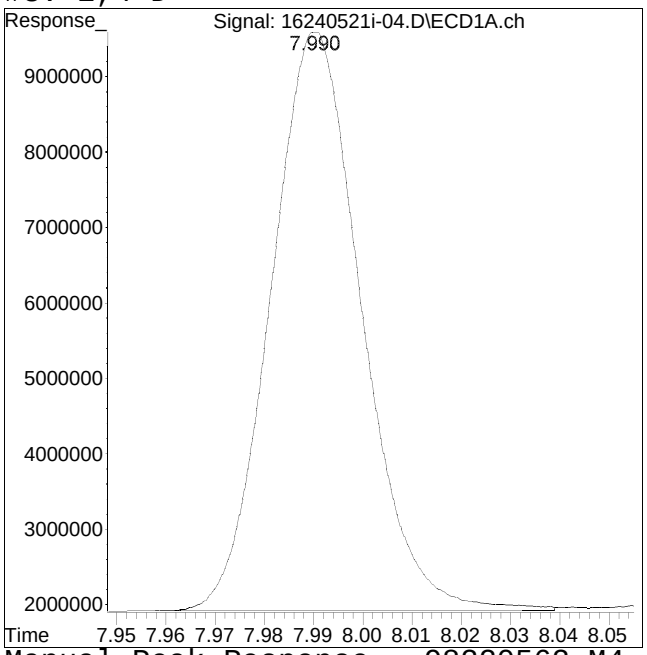
Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240521iQMethod : Herb16_2024_05_21_ICAL.m
Data File : 16240521i-04.D Operator : pest16:jag
Date Inj'd : 5/21/2024 6:38 pm Instrument : PEST16
Sample : il3herb,42e,,pp 11462 L0.2Quant Date : 5/24/2024 9:12 am

Compound #8: 2,4-D



Original Peak Response = 98737430



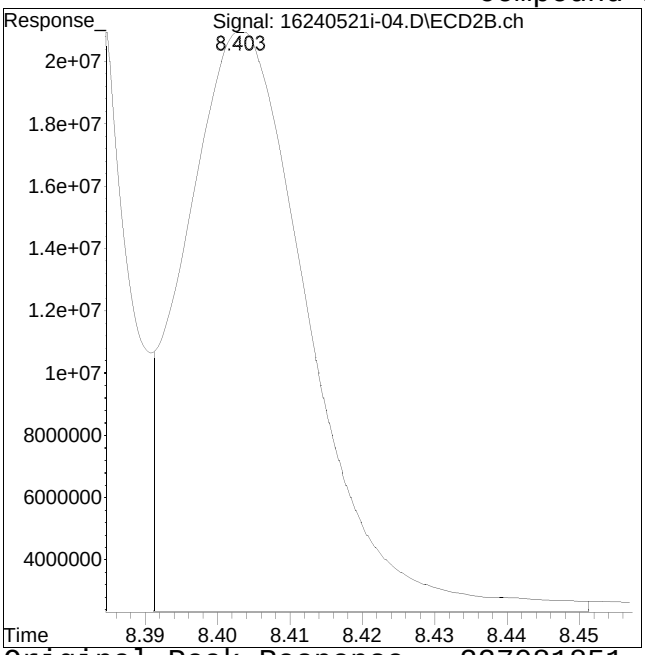
Manual Peak Response = 98220562 M4

M4 = Poor automated baseline construction.

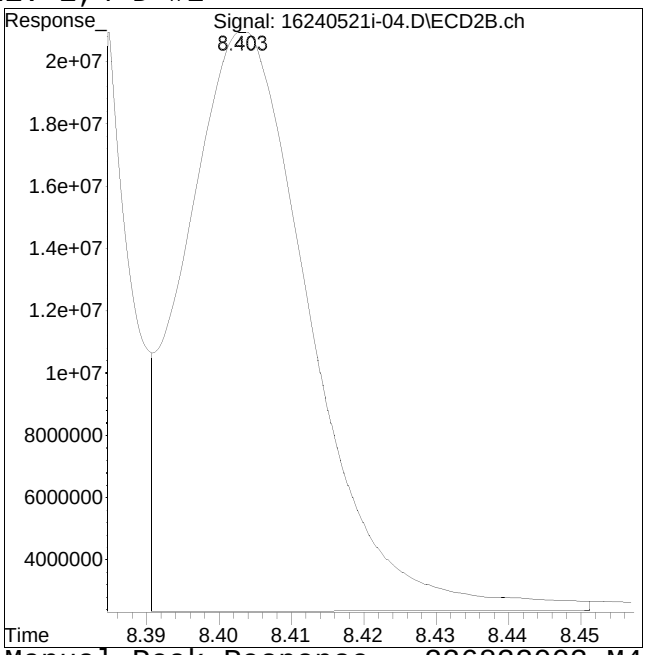
Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240521iQMethod : Herb16_2024_05_21_ICAL.m
Data File : 16240521i-04.D Operator : pest16:jag
Date Inj'd : 5/21/2024 6:38 pm Instrument : PEST16
Sample : il3herb,42e,,pp 11462 L0.2Quant Date : 5/24/2024 9:12 am

Compound #21: 2,4-D #2



Original Peak Response = 227081851

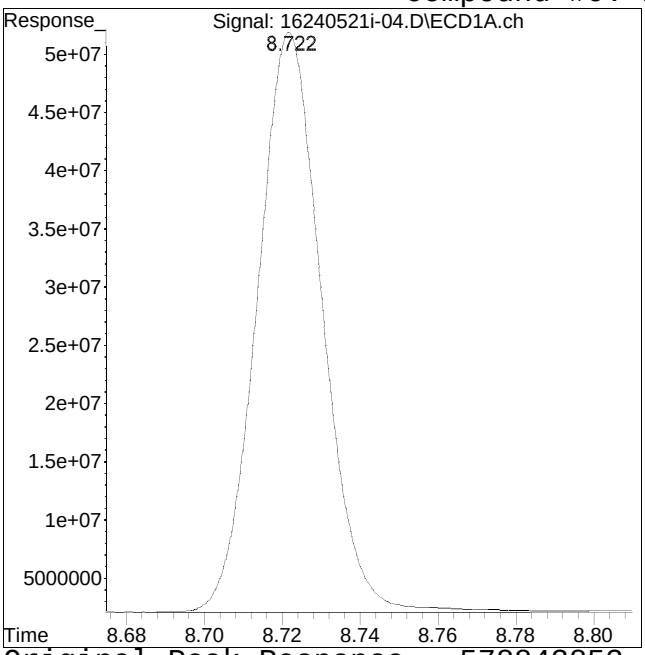


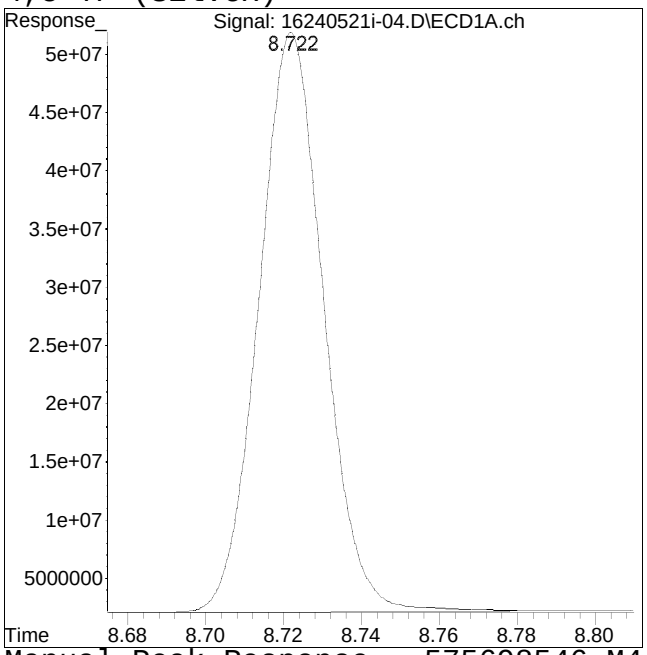
Manual Peak Response = 226832003 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240521iQMethod : Herb16_2024_05_21_ICAL.m
Data File : 16240521i-04.D Operator : pest16:jag
Date Inj'd : 5/21/2024 6:38 pm Instrument : PEST16
Sample : il3herb,42e,,pp 11462 L0.2Quant Date : 5/24/2024 9:12 am

Compound #9: 2,4,5-TP (Silvex)



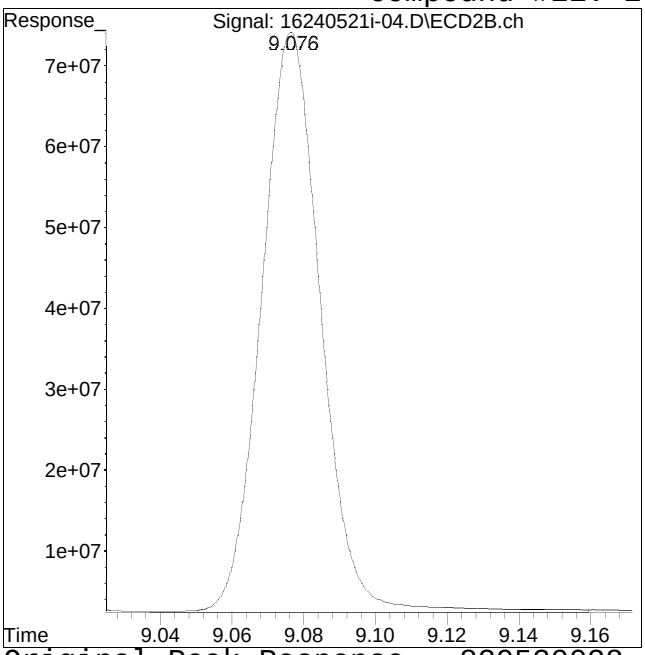


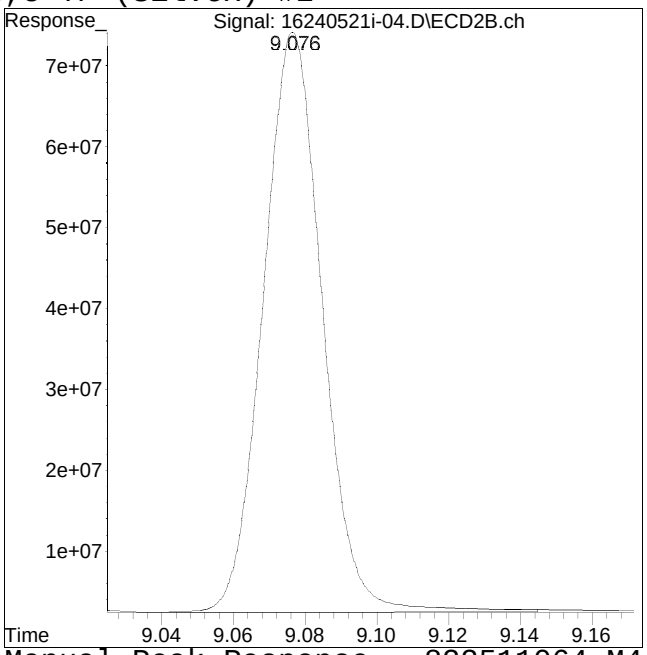
Original Peak Response = 578843853 Manual Peak Response = 575698546 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240521iQMethod : Herb16_2024_05_21_ICAL.m
Data File : 16240521i-04.D Operator : pest16:jag
Date Inj'd : 5/21/2024 6:38 pm Instrument : PEST16
Sample : il3herb,42e,,pp 11462 L0.2Quant Date : 5/24/2024 9:12 am

Compound #22: 2,4,5-TP (Silvex) #2



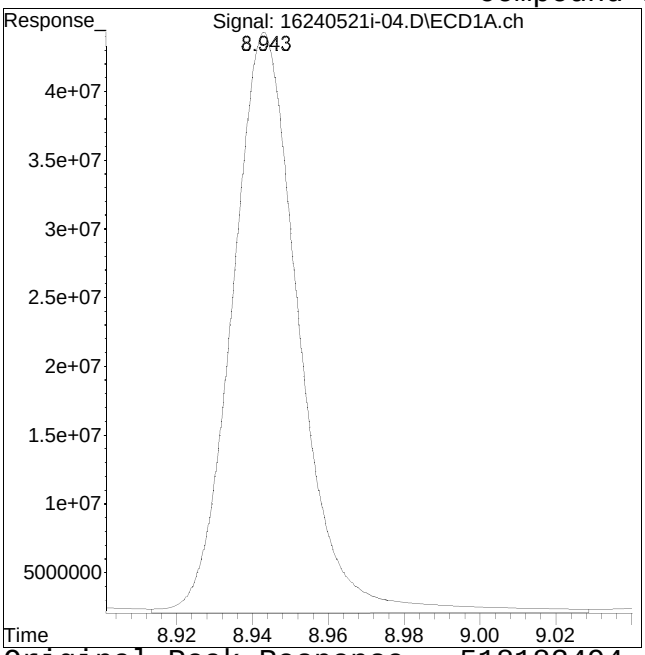


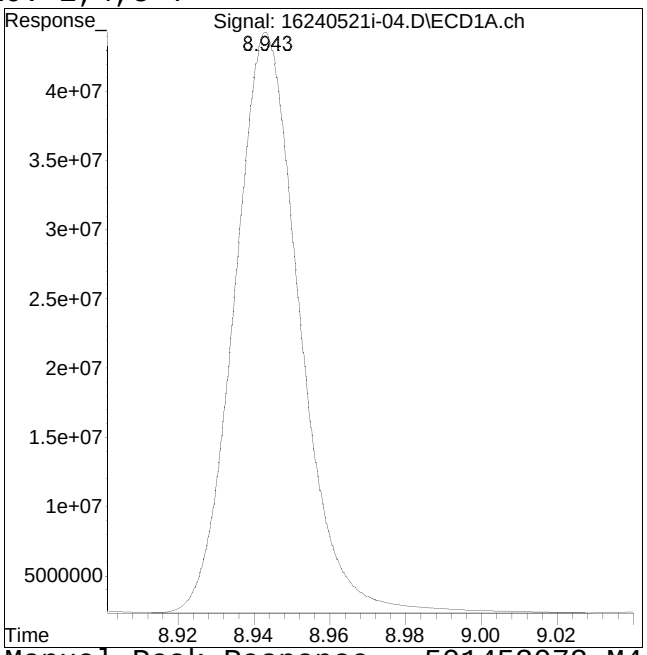
Original Peak Response = 829530028 Manual Peak Response = 822511064 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240521iQMethod : Herb16_2024_05_21_ICAL.m
Data File : 16240521i-04.D Operator : pest16:jag
Date Inj'd : 5/21/2024 6:38 pm Instrument : PEST16
Sample : il3herb,42e,,pp 11462 L0.2Quant Date : 5/24/2024 9:12 am

Compound #10: 2,4,5-T



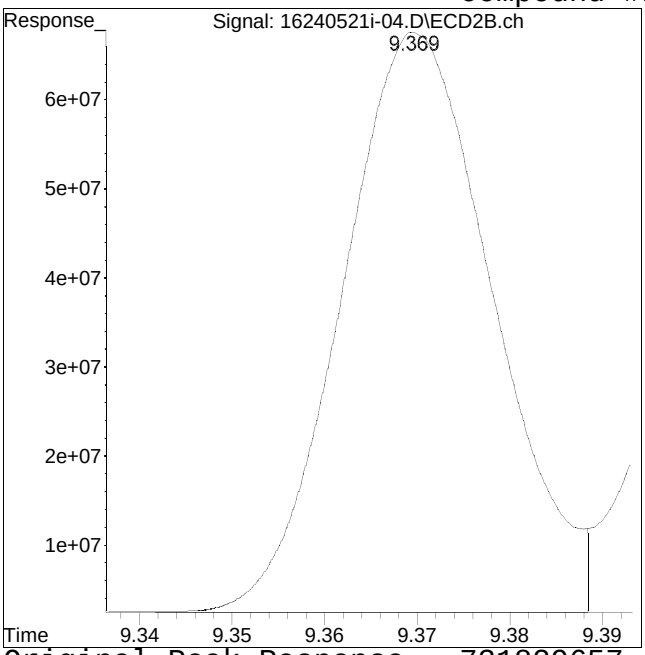


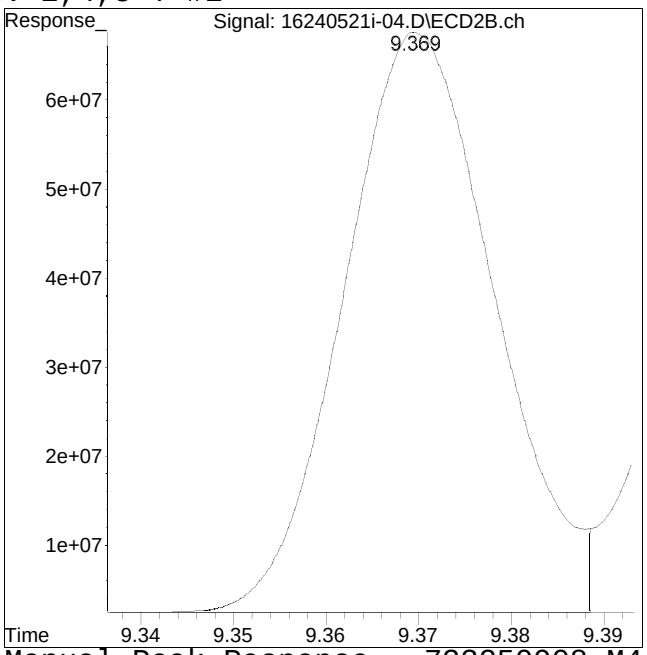
Original Peak Response = 518182494 Manual Peak Response = 501453072 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240521iQMethod : Herb16_2024_05_21_ICAL.m
Data File : 16240521i-04.D Operator : pest16:jag
Date Inj'd : 5/21/2024 6:38 pm Instrument : PEST16
Sample : il3herb,42e,,pp 11462 L0.2Quant Date : 5/24/2024 9:12 am

Compound #23: 2,4,5-T #2



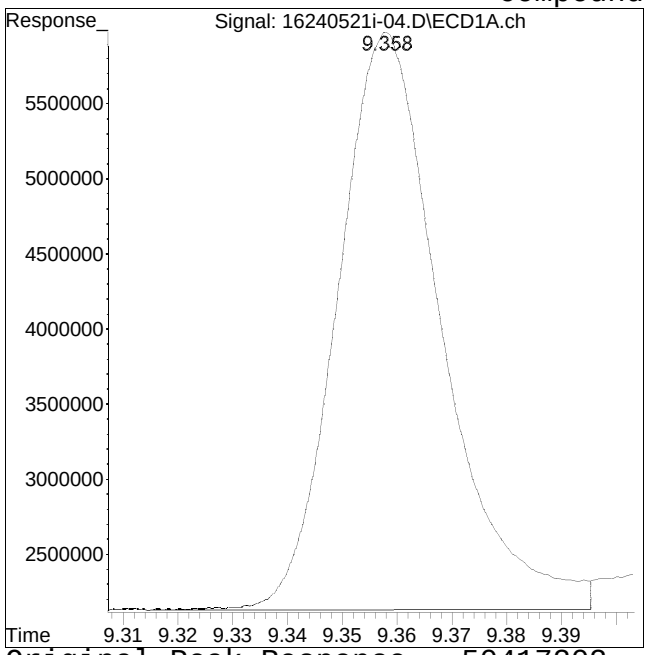


Original Peak Response = 731829657 Manual Peak Response = 733250908 M4
M4 = Poor automated baseline construction.

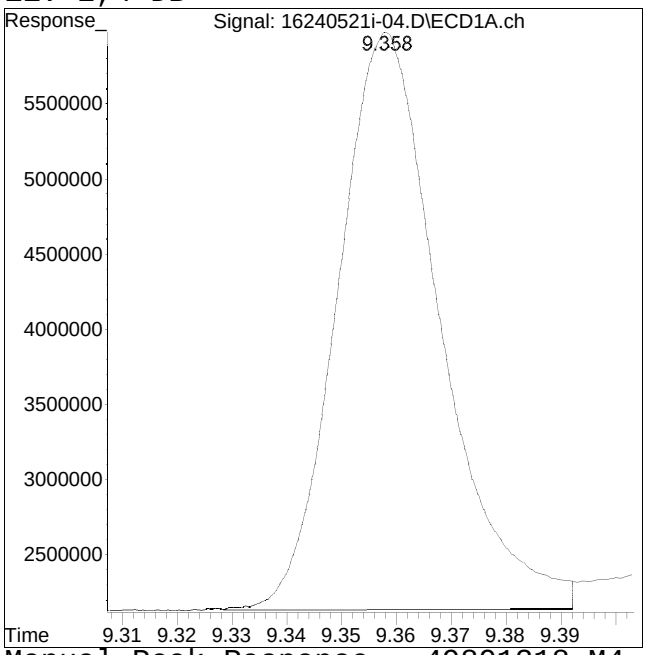
Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240521iQMethod : Herb16_2024_05_21_ICAL.m
Data File : 16240521i-04.D Operator : pest16:jag
Date Inj'd : 5/21/2024 6:38 pm Instrument : PEST16
Sample : il3herb,42e,,pp 11462 L0.2Quant Date : 5/24/2024 9:12 am

Compound #11: 2,4-DB



Original Peak Response = 50417202



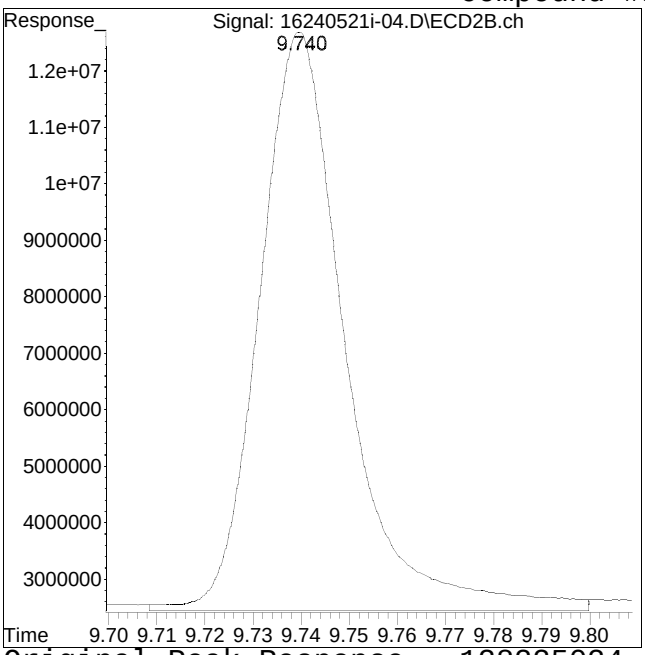
Manual Peak Response = 49891318 M4

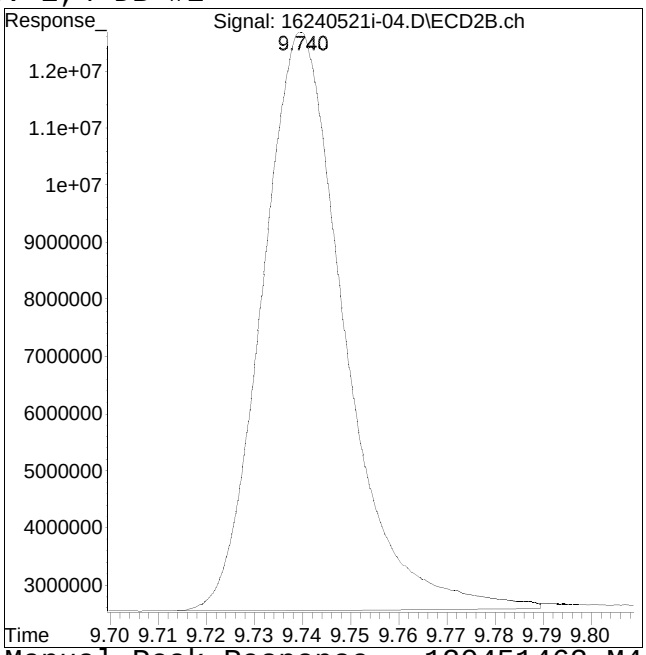
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240521iQMethod : Herb16_2024_05_21_ICAL.m
Data File : 16240521i-04.D Operator : pest16:jag
Date Inj'd : 5/21/2024 6:38 pm Instrument : PEST16
Sample : il3herb,42e,,pp 11462 L0.2Quant Date : 5/24/2024 9:12 am

Compound #24: 2,4-DB #2



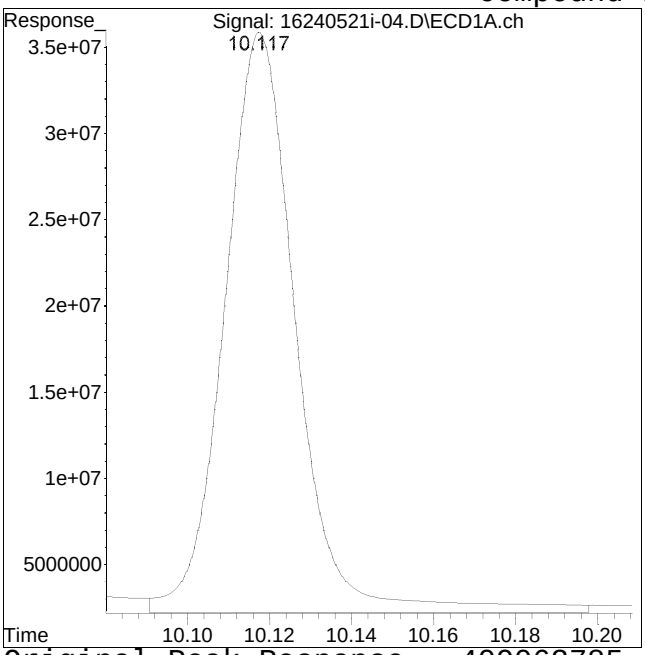


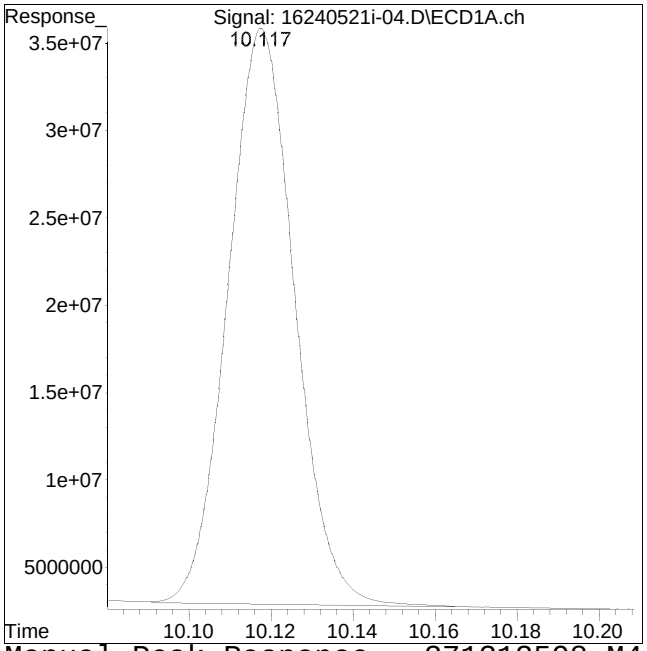
Original Peak Response = 128225024 Manual Peak Response = 120451462 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240521iQMethod : Herb16_2024_05_21_ICAL.m
Data File : 16240521i-04.D Operator : pest16:jag
Date Inj'd : 5/21/2024 6:38 pm Instrument : PEST16
Sample : il3herb,42e,,pp 11462 L0.2Quant Date : 5/24/2024 9:12 am

Compound #12: Dinoseb



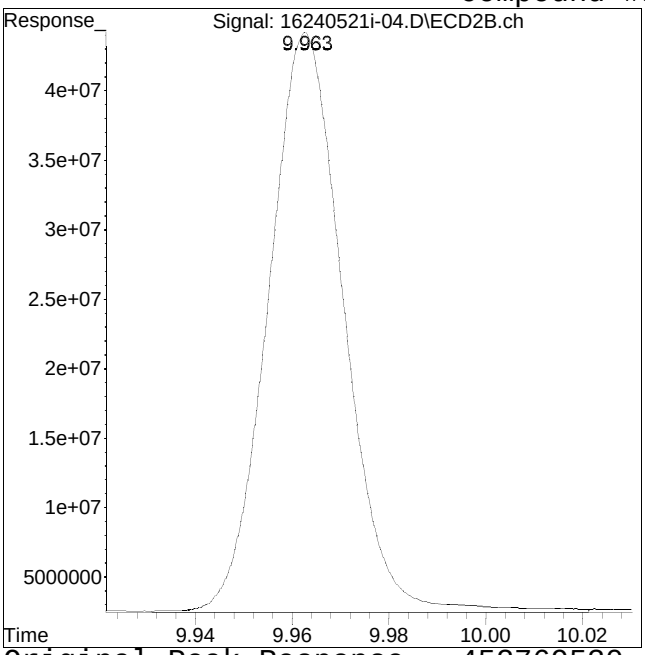


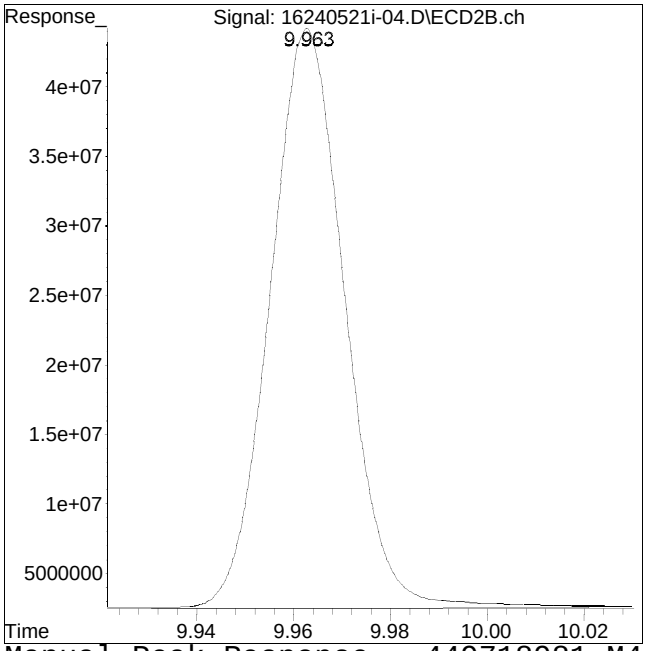
Original Peak Response = 409063785 Manual Peak Response = 371313598 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240521iQMethod : Herb16_2024_05_21_ICAL.m
Data File : 16240521i-04.D Operator : pest16:jag
Date Inj'd : 5/21/2024 6:38 pm Instrument : PEST16
Sample : il3herb,42e,,pp 11462 L0.2Quant Date : 5/24/2024 9:12 am

Compound #25: Dinoseb #2





Original Peak Response = 452769530 Manual Peak Response = 449718981 M4
M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest16\2024\240521ical\
Data File : 16240521i-05.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 21 May 2024 6:57 pm
Operator : pest16:jag
Sample : il4herb,42e,,pp 11461 L0.5/50
Misc : wg1925170, (Sig #1); ,,ical (Sig #2)
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 24 09:12:43 2024
Quant Method : I:\PCB\Pest16\2024\240521ical\Herb16_2024_05_21_ICAL.m
Quant Title : herb
QLast Update : Fri May 24 09:12:43 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

		Compound	RT#1	RT#2	Resp#1	Resp#2	mg/l	mg/l
		Internal Standards						
1)	i	4,4'-DBOB	8.450	8.370	950.3E6	1326.5E6	0.250M4	0.250M4
		System Monitoring Compounds						
3)	s	DCAA (surrog	6.877	7.272	140.8E6	429.8E6	0.487M4	0.501M4
		Spiked Amount	0.500	Range	30 - 150	Recovery =	97.40%	100.20%
		Target Compounds						
2)	t	Dalapon	1.868	1.824	249.6E6	416.6E6	0.455	0.477M4
4)	t	Dicamba	7.062	7.452	679.2E6	1305.8E6	0.454M4	0.437M4
5)	t	MCPP	7.271	7.572	36819502	242.7E6	50.317M3	51.811M4
6)	t	MCPA	7.420	7.801	55419833	378.7E6	49.421M4	52.429M4
7)	t	Dichloroprop	7.778	8.123	184.4E6	403.8E6	0.436M4	0.437M4
8)	t	2,4-D	7.990	8.404	222.2E6	498.3E6	0.441M4	0.433
9)	t	2,4,5-TP (Si	8.722	9.077	1403.5E6	1860.4E6	0.472M4	0.453M3
10)	t	2,4,5-T	8.943	9.371	1219.6E6	1691.7E6	0.470M4	0.458
11)	t	2,4-DB	9.357	9.739	116.8E6	285.6E6	0.473M4	0.472M4
12)	t	Dinoseb	10.117	9.963	896.0E6	1006.2E6	0.465M4	0.450M3

SemiQuant Compounds - Not Calibrated on this Instrument

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest16\2024\240521ical\
Data File : 16240521i-05.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 21 May 2024 6:57 pm
Operator : pest16:jag
Sample : il4herb,42e,,pp 11461 L0.5/50
Misc : wg1925170, (Sig #1); ,,ical (Sig #2)
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 24 09:12:43 2024
Quant Method : I:\PCB\Pest16\2024\240521ical\Herb16_2024_05_21_ICAL.m
Quant Title : herb
QLast Update : Fri May 24 09:12:43 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	mg/l	mg/l

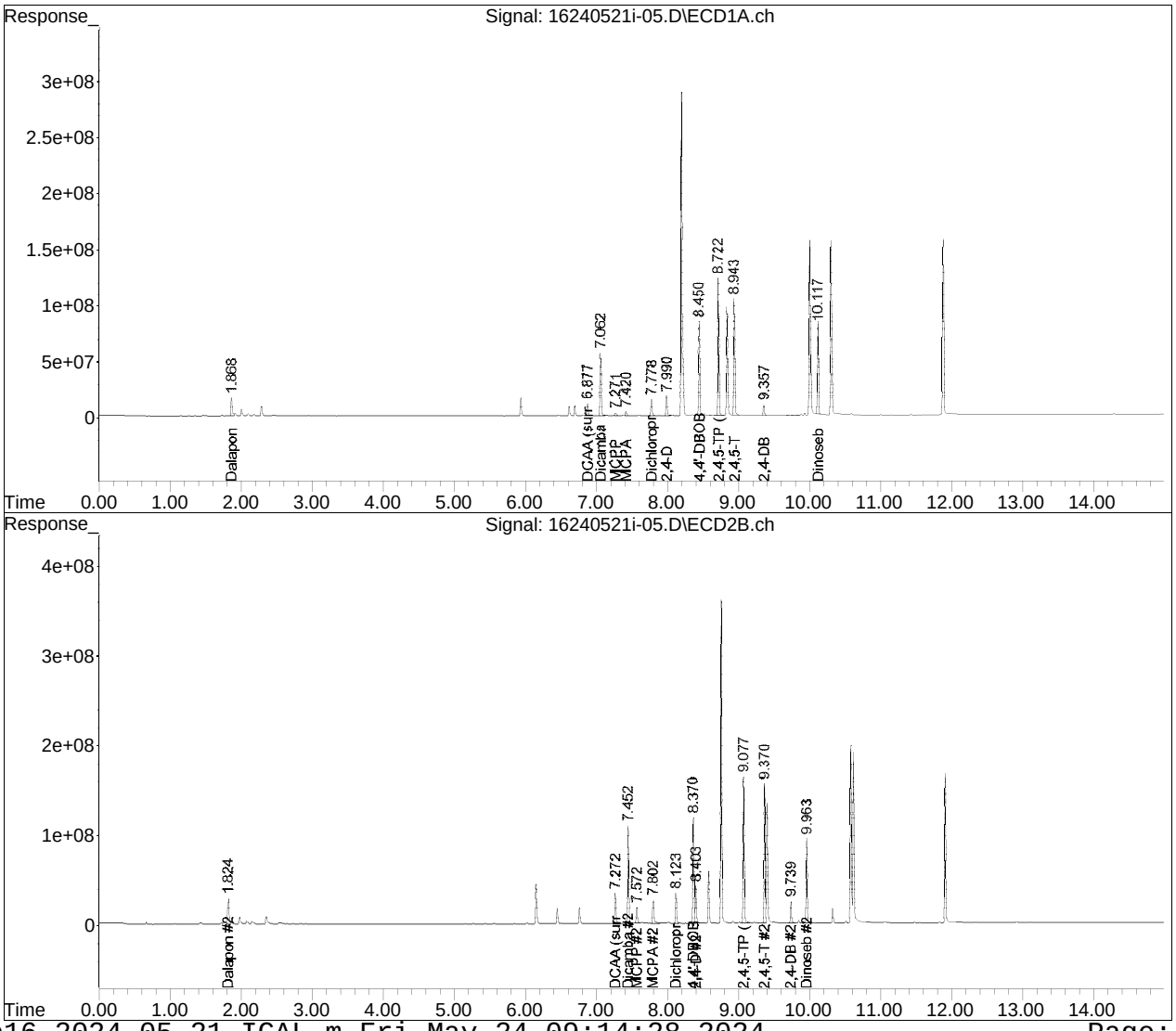
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PCB\Pest16\2024\240521ical\
Data File : 16240521i-05.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 21 May 2024 6:57 pm
Operator : pest16:jag
Sample : il4herb,42e,,pp 11461 L0.5/50
Misc : wg1925170, (Sig #1); ,,ical (Sig #2)
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 24 09:12:43 2024
Quant Method : I:\PCB\Pest16\2024\240521ical\Herb16_2024_05_21_ICAL.m
Quant Title : herb
QLast Update : Fri May 24 09:12:43 2024
Response via : Initial Calibration
Integrator: ChemStation

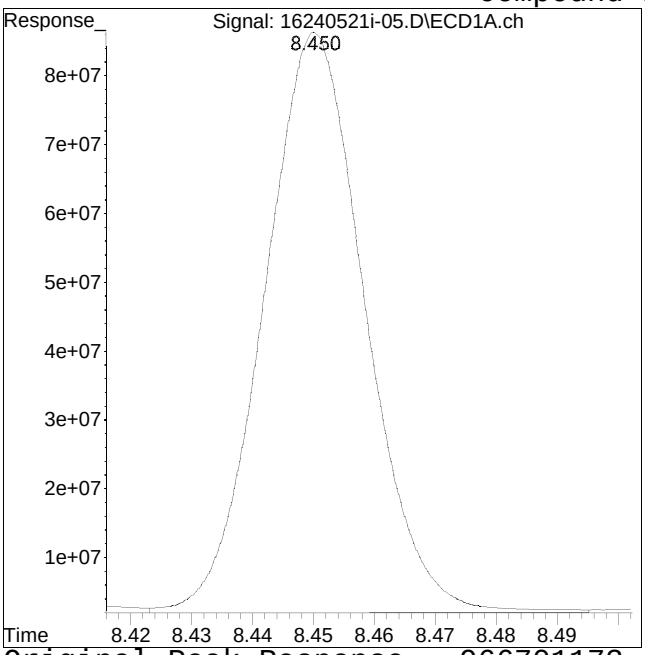
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

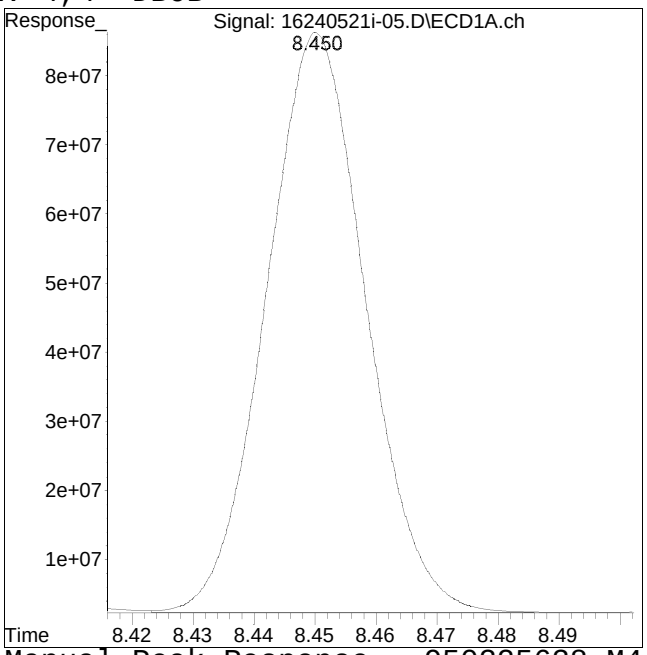


Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240521iQMethod : Herb16_2024_05_21_ICAL.m
Data File : 16240521i-05.D Operator : pest16:jag
Date Inj'd : 5/21/2024 6:57 pm Instrument : PEST16
Sample : il4herb,42e,,pp 11461 L0.5Quant Date : 5/24/2024 9:12 am

Compound #1: 4,4'-DBOB



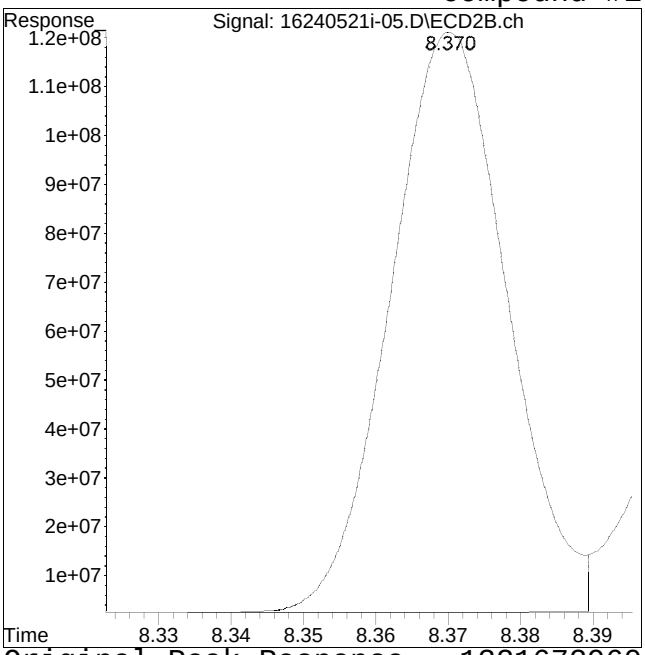


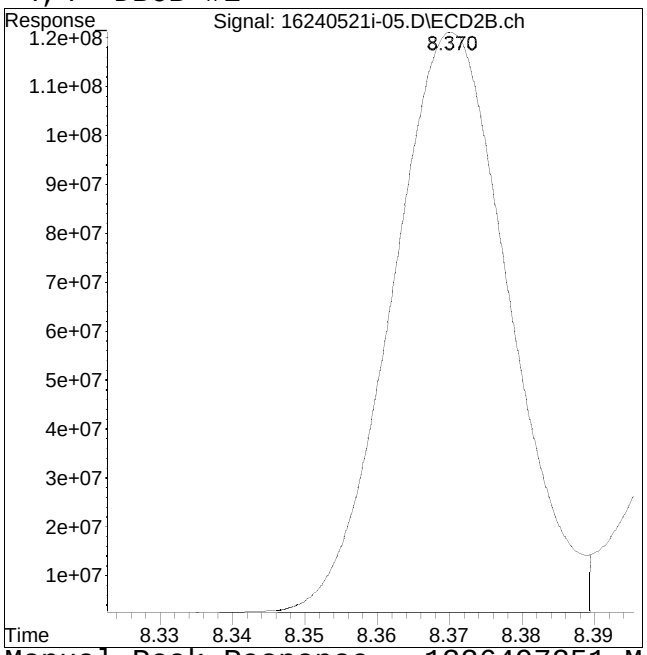
Original Peak Response = 966701173 Manual Peak Response = 950325638 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240521iQMethod : Herb16_2024_05_21_ICAL.m
Data File : 16240521i-05.D Operator : pest16:jag
Date Inj'd : 5/21/2024 6:57 pm Instrument : PEST16
Sample : il4herb,42e,,pp 11461 L0.5Quant Date : 5/24/2024 9:12 am

Compound #14: 4,4'-DBOB #2



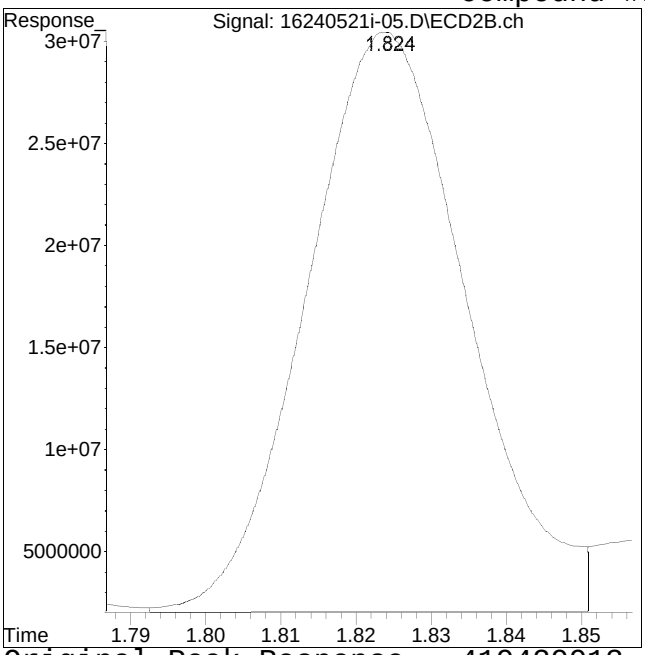


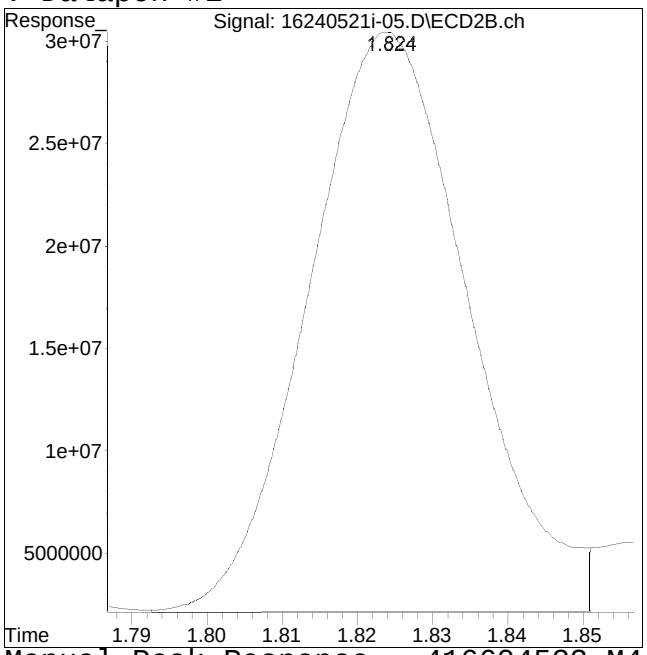
Original Peak Response = 1321672960 Manual Peak Response = 1326497251 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240521iQMethod : Herb16_2024_05_21_ICAL.m
Data File : 16240521i-05.D Operator : pest16:jag
Date Inj'd : 5/21/2024 6:57 pm Instrument : PEST16
Sample : il4herb,42e,,pp 11461 L0.5Quant Date : 5/24/2024 9:12 am

Compound #15: Dalapon #2



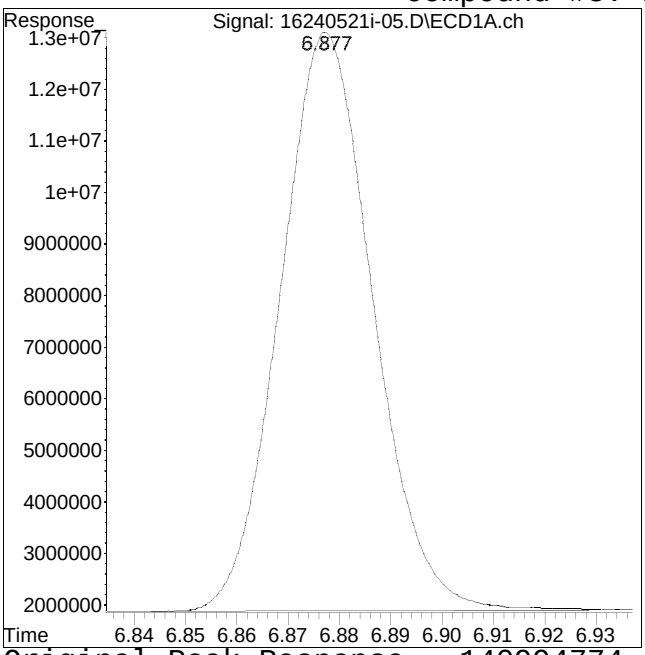


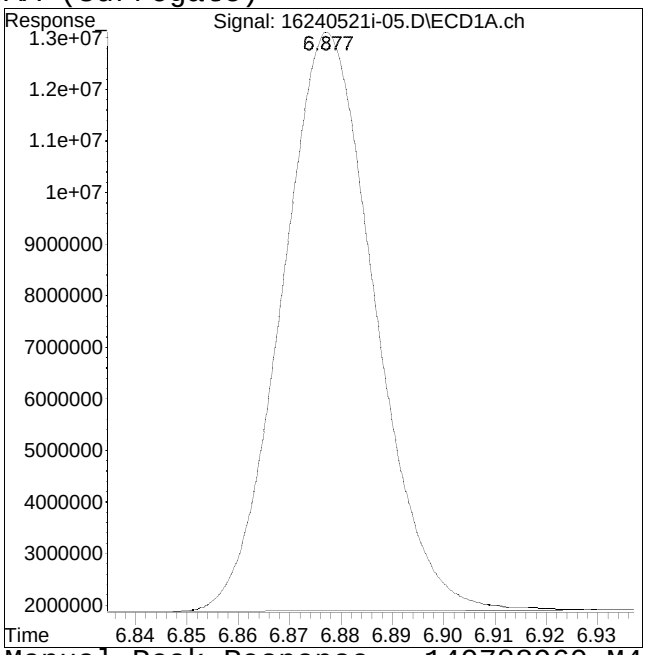
Original Peak Response = 419429913 Manual Peak Response = 416604523 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240521iQMethod : Herb16_2024_05_21_ICAL.m
Data File : 16240521i-05.D Operator : pest16:jag
Date Inj'd : 5/21/2024 6:57 pm Instrument : PEST16
Sample : il4herb,42e,,pp 11461 L0.5Quant Date : 5/24/2024 9:12 am

Compound #3: DCAA (surrogate)



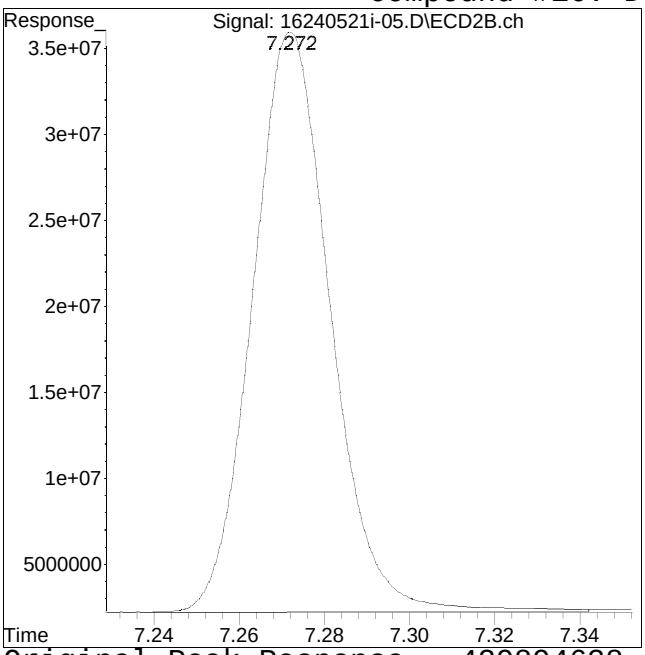


Original Peak Response = 140994774 Manual Peak Response = 140788960 M4
M4 = Poor automated baseline construction.

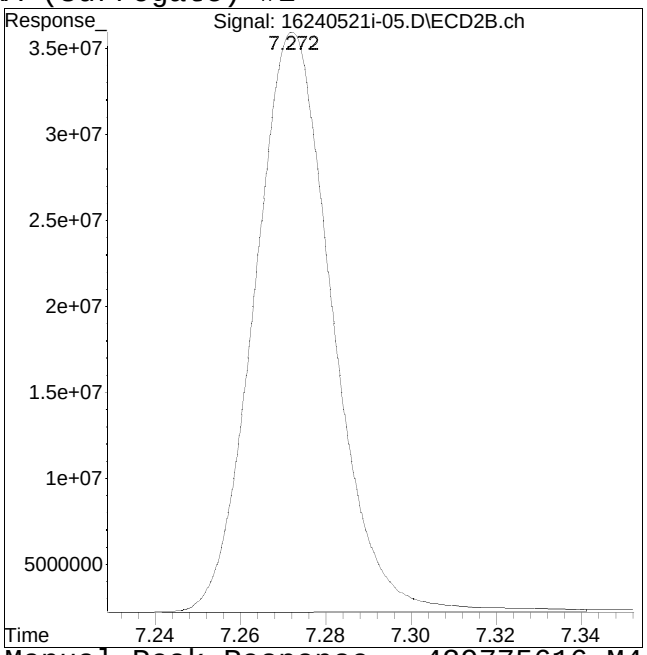
Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240521iQMethod : Herb16_2024_05_21_ICAL.m
Data File : 16240521i-05.D Operator : pest16:jag
Date Inj'd : 5/21/2024 6:57 pm Instrument : PEST16
Sample : il4herb,42e,,pp 11461 L0.5Quant Date : 5/24/2024 9:12 am

Compound #16: DCAA (surrogate) #2



Original Peak Response = 429894638

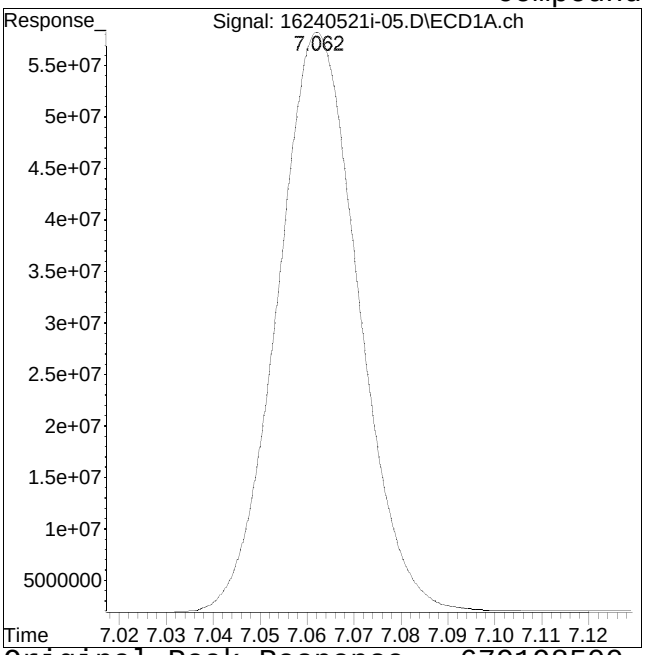


Manual Peak Response = 429775616 M4
M4 = Poor automated baseline construction.

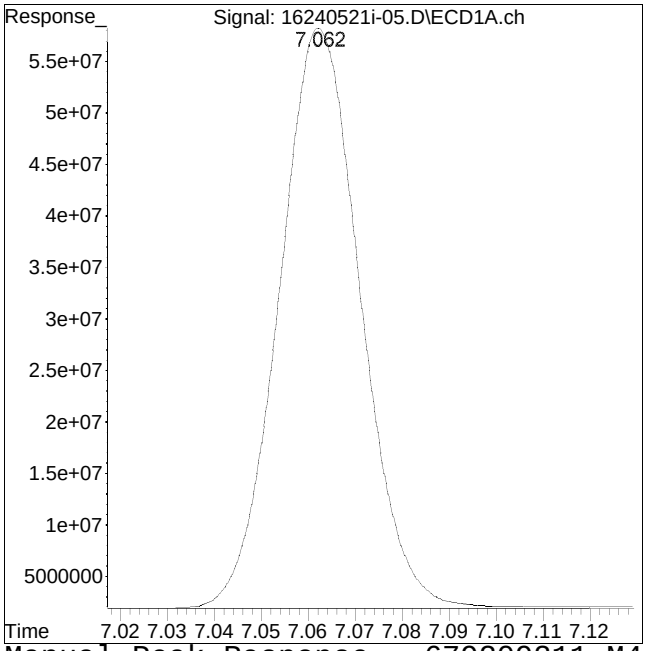
Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240521iQMethod : Herb16_2024_05_21_ICAL.m
Data File : 16240521i-05.D Operator : pest16:jag
Date Inj'd : 5/21/2024 6:57 pm Instrument : PEST16
Sample : il4herb,42e,,pp 11461 L0.5Quant Date : 5/24/2024 9:12 am

Compound #4: Dicamba



Original Peak Response = 679198500



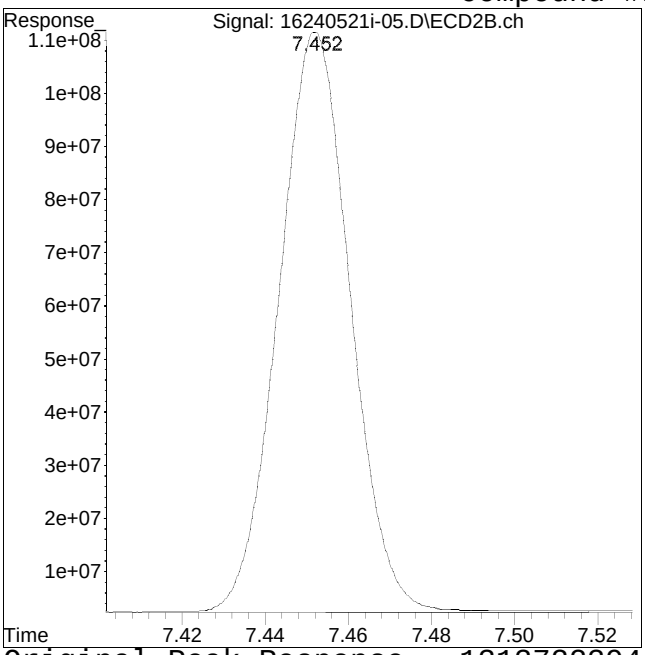
Manual Peak Response = 679209211 M4

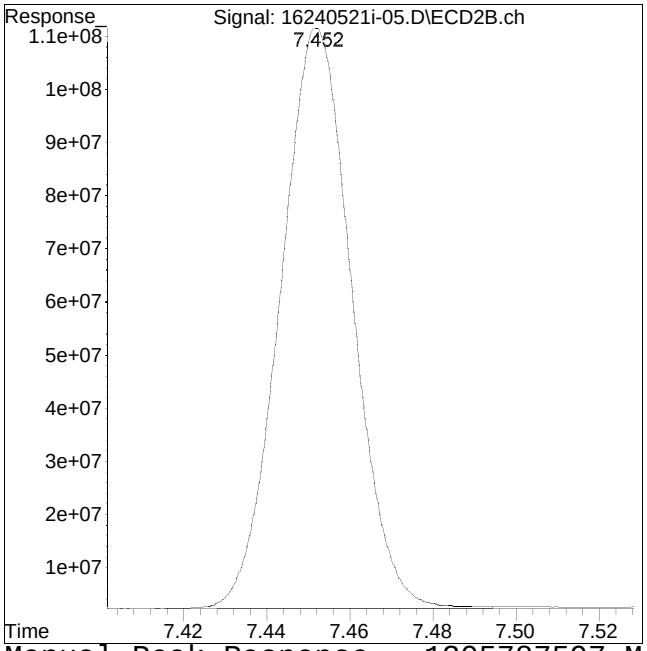
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240521iQMethod : Herb16_2024_05_21_ICAL.m
Data File : 16240521i-05.D Operator : pest16:jag
Date Inj'd : 5/21/2024 6:57 pm Instrument : PEST16
Sample : il4herb,42e,,pp 11461 L0.5Quant Date : 5/24/2024 9:12 am

Compound #17: Dicamba #2



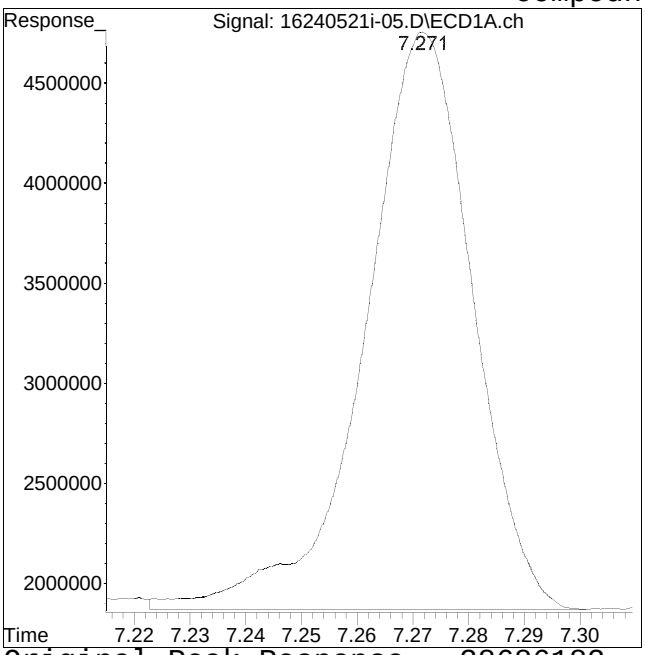


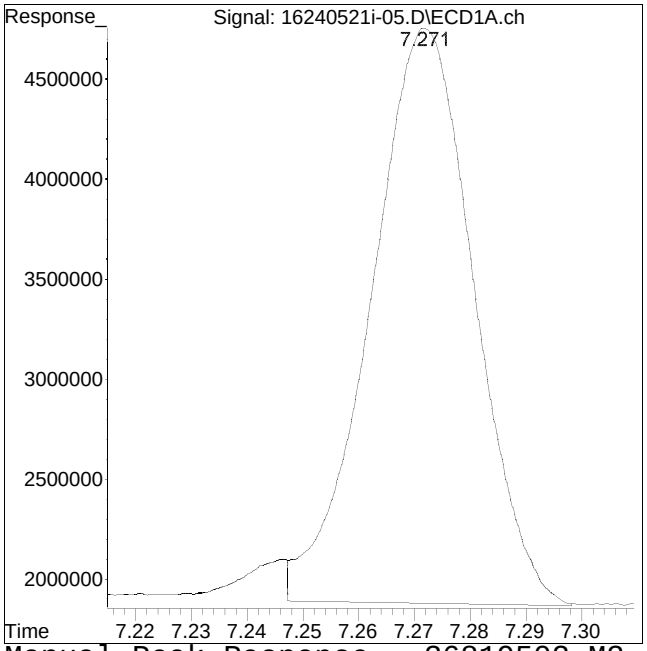
Original Peak Response = 1313722394 Manual Peak Response = 1305787597 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240521iQMethod : Herb16_2024_05_21_ICAL.m
Data File : 16240521i-05.D Operator : pest16:jag
Date Inj'd : 5/21/2024 6:57 pm Instrument : PEST16
Sample : il4herb,42e,,pp 11461 L0.5Quant Date : 5/24/2024 9:12 am

Compound #5: MCPP



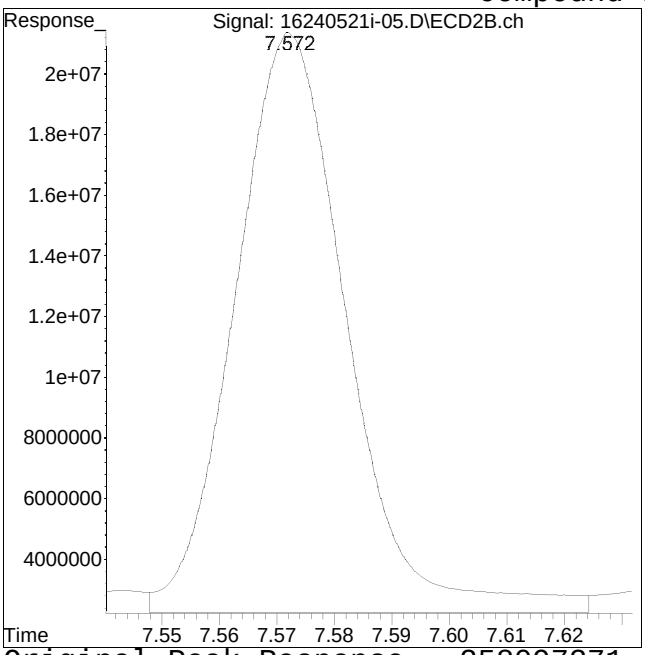


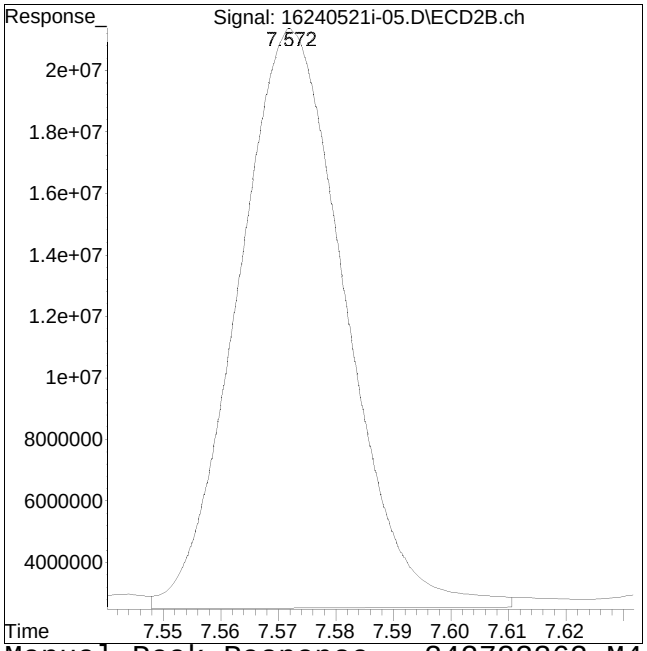
Original Peak Response = 38686182 Manual Peak Response = 36819502 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240521iQMethod : Herb16_2024_05_21_ICAL.m
Data File : 16240521i-05.D Operator : pest16:jag
Date Inj'd : 5/21/2024 6:57 pm Instrument : PEST16
Sample : il4herb,42e,,pp 11461 L0.5Quant Date : 5/24/2024 9:12 am

Compound #18: MCPP #2



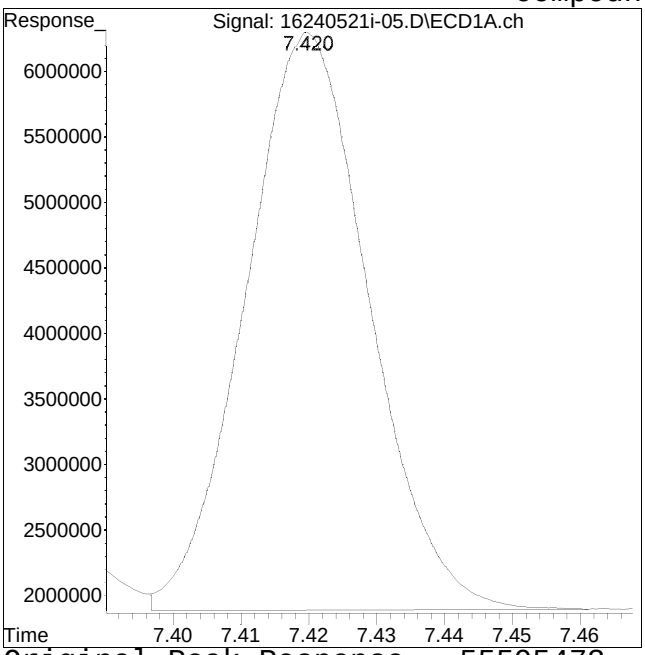


Original Peak Response = 258097371 Manual Peak Response = 242723362 M4
M4 = Poor automated baseline construction.

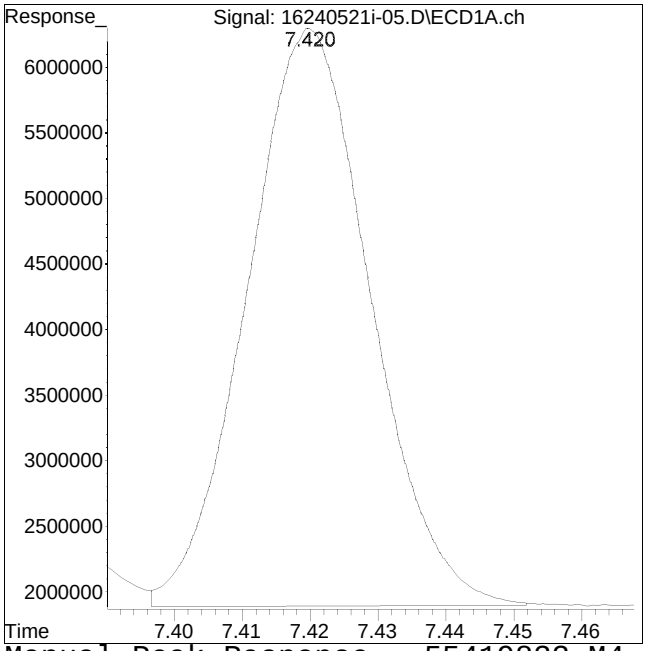
Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240521iQMethod : Herb16_2024_05_21_ICAL.m
Data File : 16240521i-05.D Operator : pest16:jag
Date Inj'd : 5/21/2024 6:57 pm Instrument : PEST16
Sample : il4herb,42e,,pp 11461 L0.5Quant Date : 5/24/2024 9:12 am

Compound #6: MCPA



Original Peak Response = 55595473



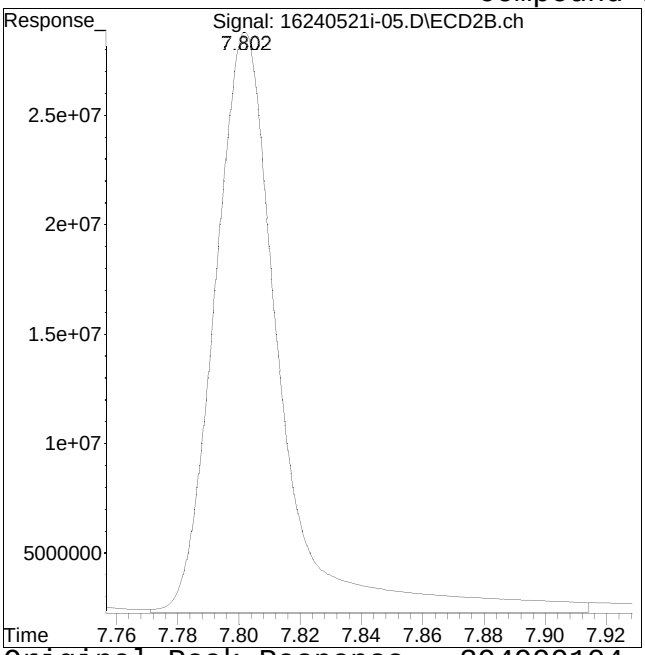
Manual Peak Response = 55419833 M4

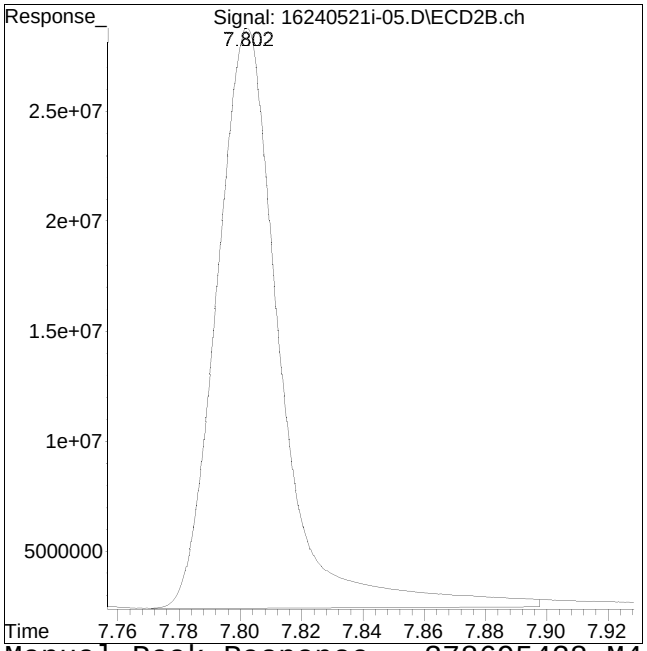
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240521iQMethod : Herb16_2024_05_21_ICAL.m
Data File : 16240521i-05.D Operator : pest16:jag
Date Inj'd : 5/21/2024 6:57 pm Instrument : PEST16
Sample : il4herb,42e,,pp 11461 L0.5Quant Date : 5/24/2024 9:12 am

Compound #19: MCPA #2



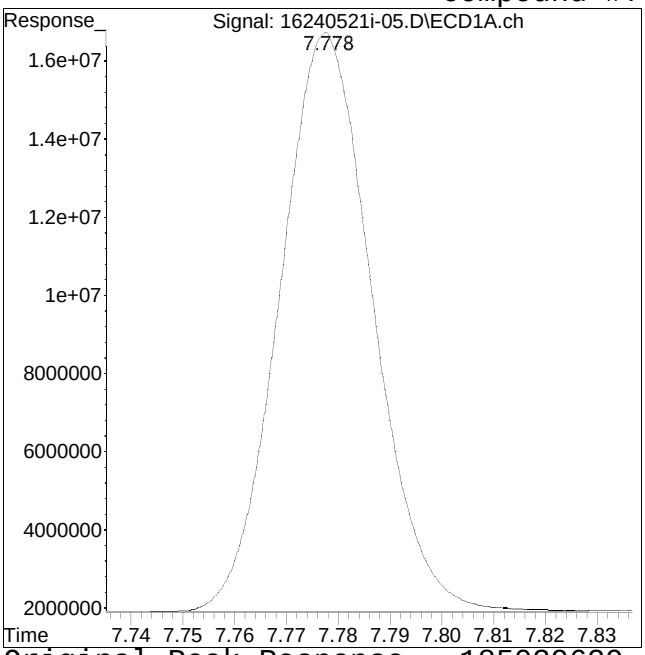


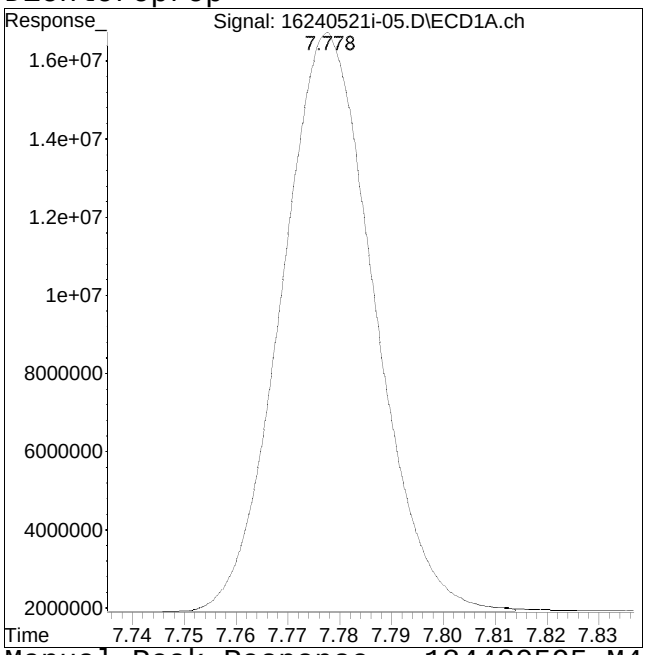
Original Peak Response = 394999104 Manual Peak Response = 378695428 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240521iQMethod : Herb16_2024_05_21_ICAL.m
Data File : 16240521i-05.D Operator : pest16:jag
Date Inj'd : 5/21/2024 6:57 pm Instrument : PEST16
Sample : il4herb,42e,,pp 11461 L0.5Quant Date : 5/24/2024 9:12 am

Compound #7: Dichloroprop



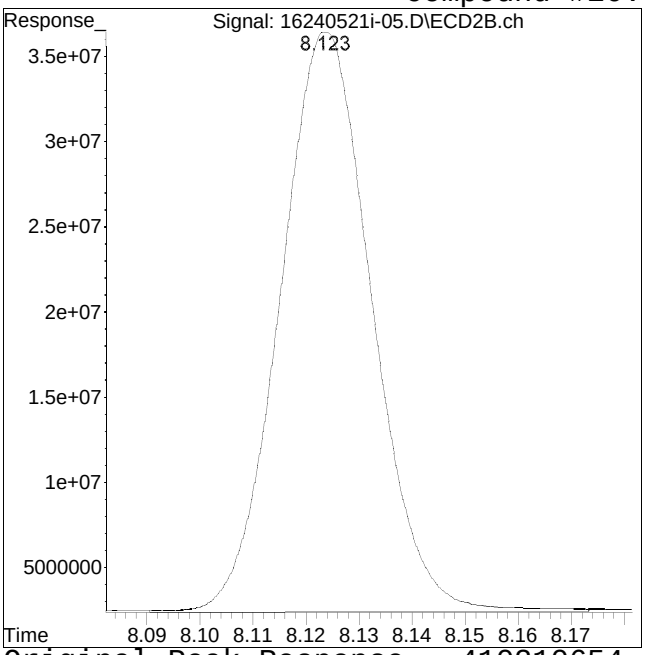


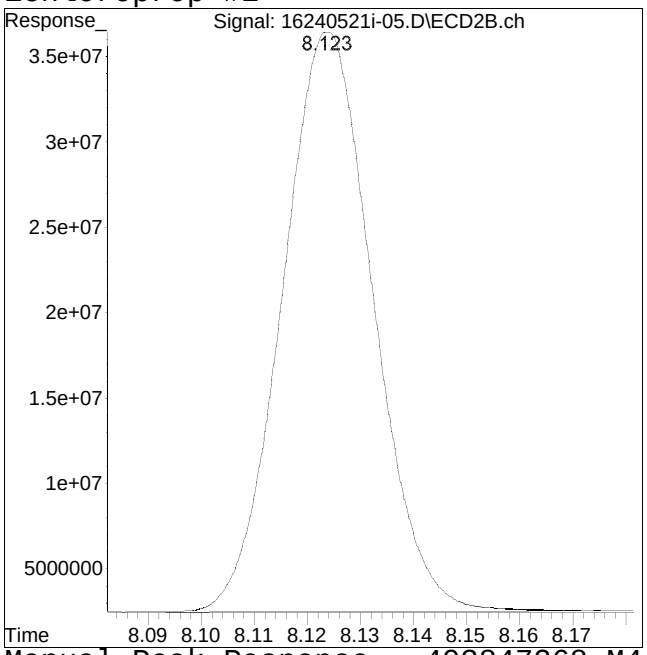
Original Peak Response = 185039629 Manual Peak Response = 184420595 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240521iQMethod : Herb16_2024_05_21_ICAL.m
Data File : 16240521i-05.D Operator : pest16:jag
Date Inj'd : 5/21/2024 6:57 pm Instrument : PEST16
Sample : il4herb,42e,,pp 11461 L0.5Quant Date : 5/24/2024 9:12 am

Compound #20: Dichloroprop #2



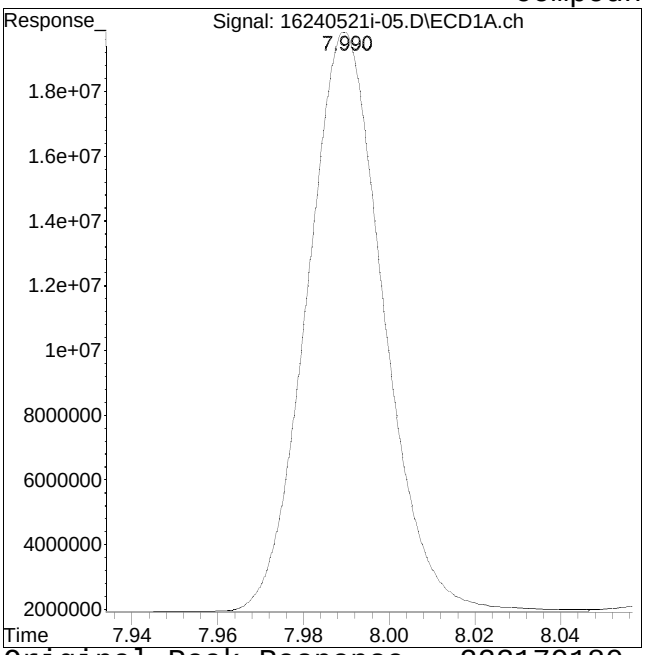


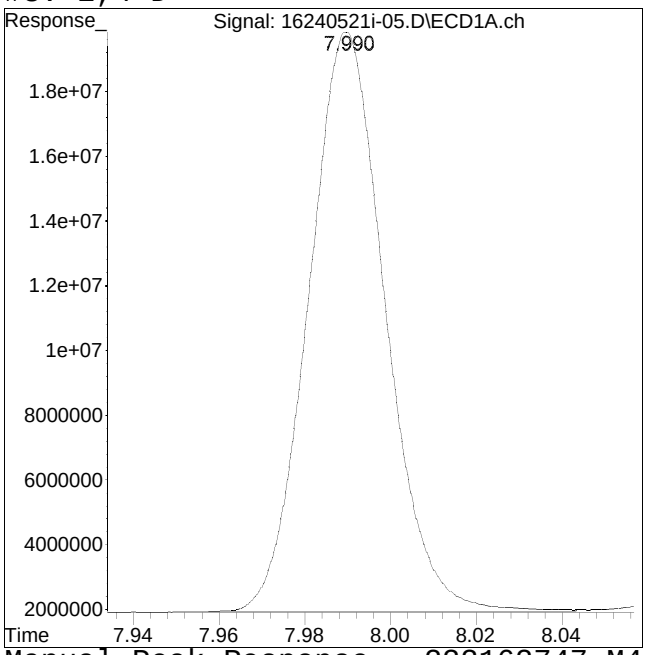
Original Peak Response = 410210654 Manual Peak Response = 403847268 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240521iQMethod : Herb16_2024_05_21_ICAL.m
Data File : 16240521i-05.D Operator : pest16:jag
Date Inj'd : 5/21/2024 6:57 pm Instrument : PEST16
Sample : il4herb,42e,,pp 11461 L0.5Quant Date : 5/24/2024 9:12 am

Compound #8: 2,4-D



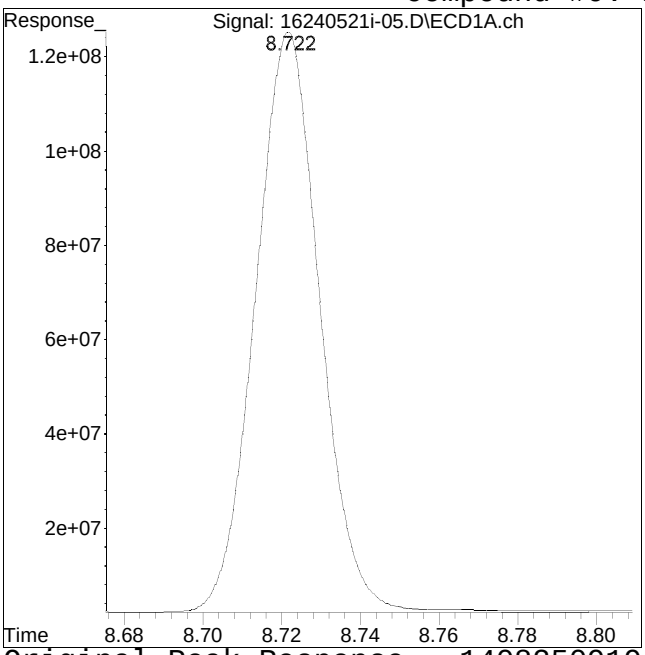


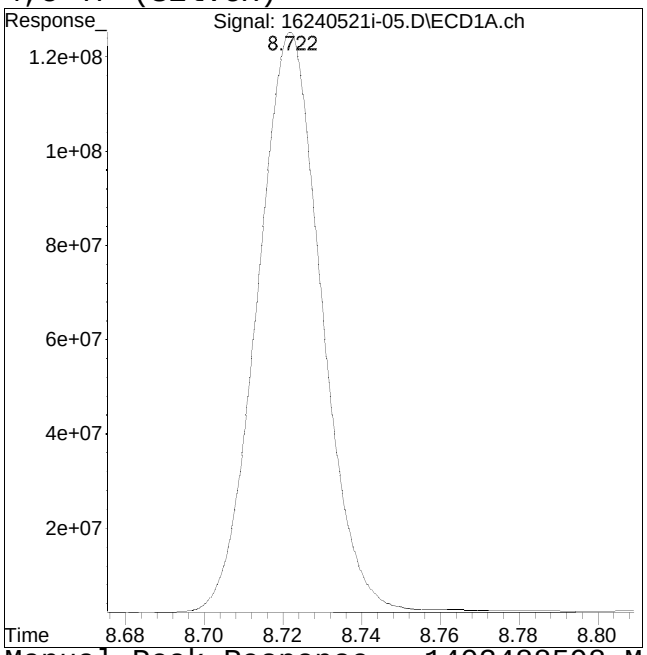
Original Peak Response = 223179180 Manual Peak Response = 222162747 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240521iQMethod : Herb16_2024_05_21_ICAL.m
Data File : 16240521i-05.D Operator : pest16:jag
Date Inj'd : 5/21/2024 6:57 pm Instrument : PEST16
Sample : il4herb,42e,,pp 11461 L0.5Quant Date : 5/24/2024 9:12 am

Compound #9: 2,4,5-TP (Silvex)



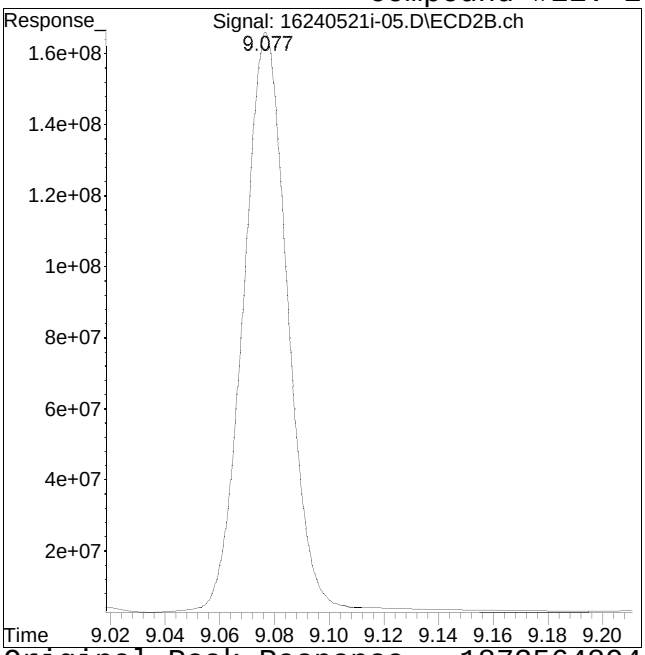


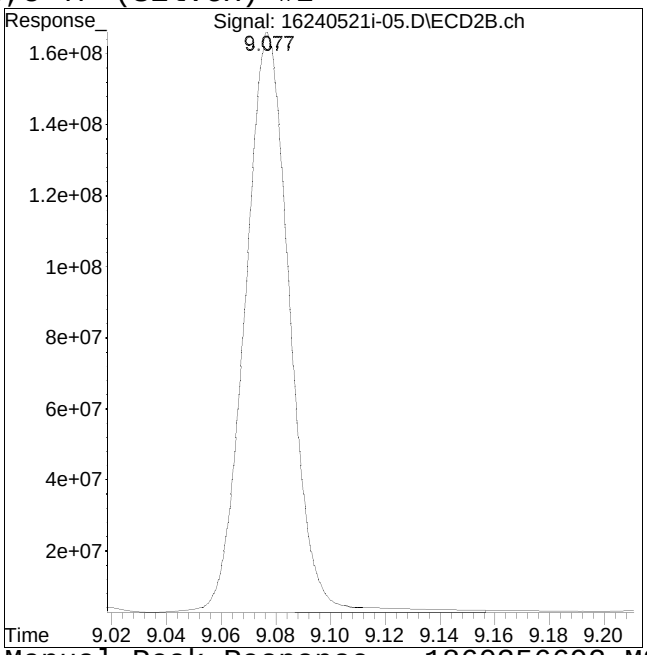
Original Peak Response = 1408250919 Manual Peak Response = 1403488598 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240521iQMethod : Herb16_2024_05_21_ICAL.m
Data File : 16240521i-05.D Operator : pest16:jag
Date Inj'd : 5/21/2024 6:57 pm Instrument : PEST16
Sample : il4herb,42e,,pp 11461 L0.5Quant Date : 5/24/2024 9:12 am

Compound #22: 2,4,5-TP (Silvex) #2



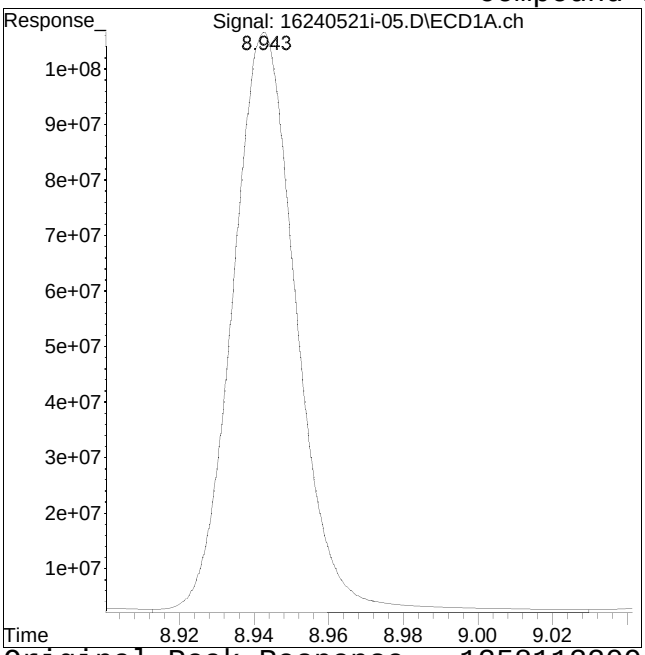


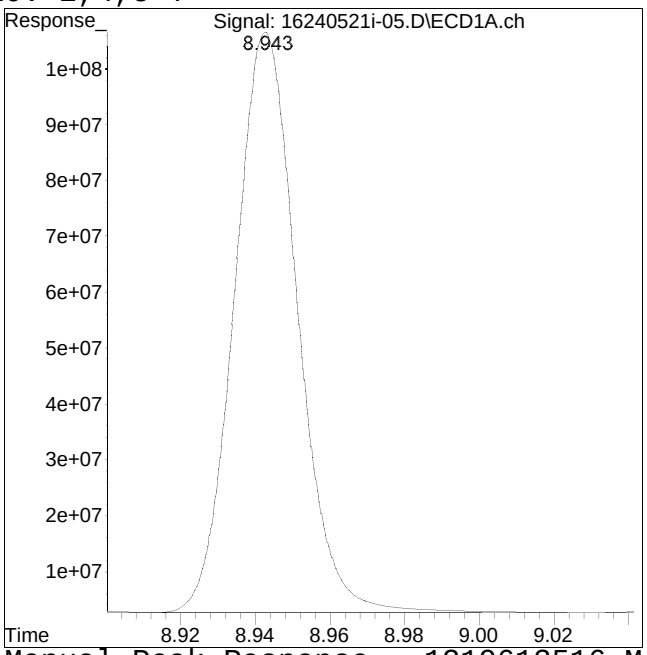
Original Peak Response = 1873564894 Manual Peak Response = 1860356692 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240521iQMethod : Herb16_2024_05_21_ICAL.m
Data File : 16240521i-05.D Operator : pest16:jag
Date Inj'd : 5/21/2024 6:57 pm Instrument : PEST16
Sample : il4herb,42e,,pp 11461 L0.5Quant Date : 5/24/2024 9:12 am

Compound #10: 2,4,5-T



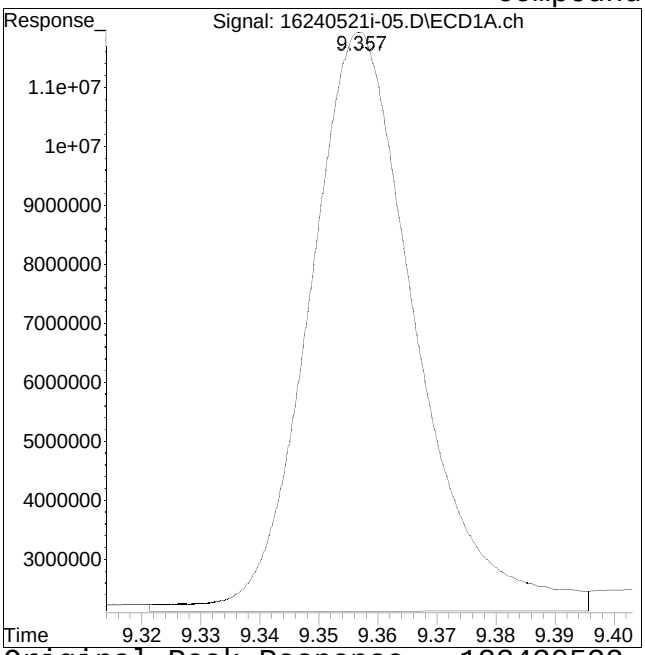


Original Peak Response = 1258113209 Manual Peak Response = 1219613516 M4
M4 = Poor automated baseline construction.

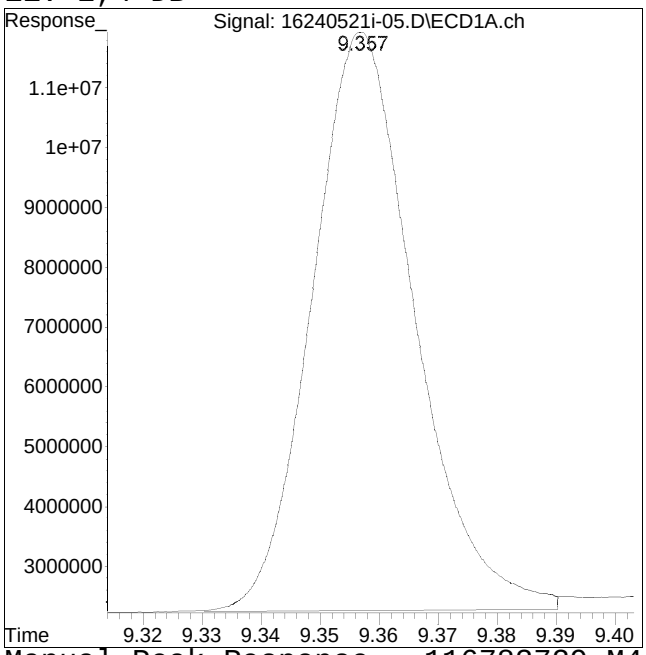
Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240521iQMethod : Herb16_2024_05_21_ICAL.m
Data File : 16240521i-05.D Operator : pest16:jag
Date Inj'd : 5/21/2024 6:57 pm Instrument : PEST16
Sample : il4herb,42e,,pp 11461 L0.5Quant Date : 5/24/2024 9:12 am

Compound #11: 2,4-DB



Original Peak Response = 123430532

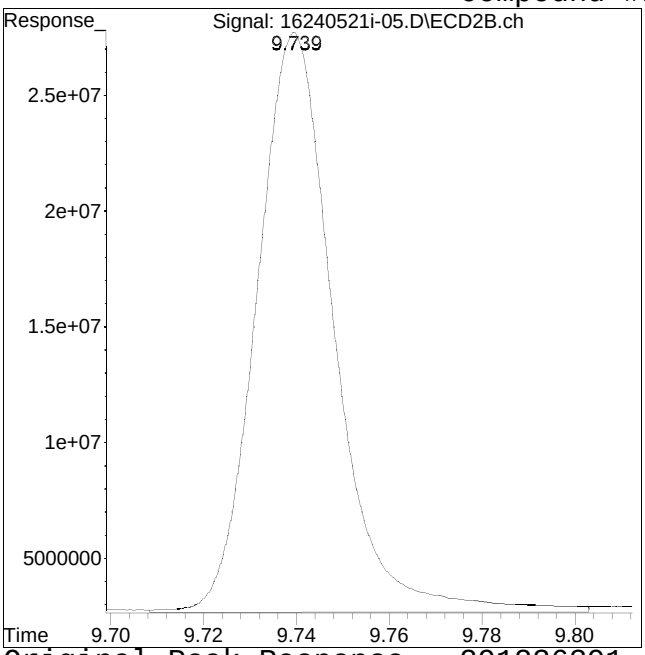


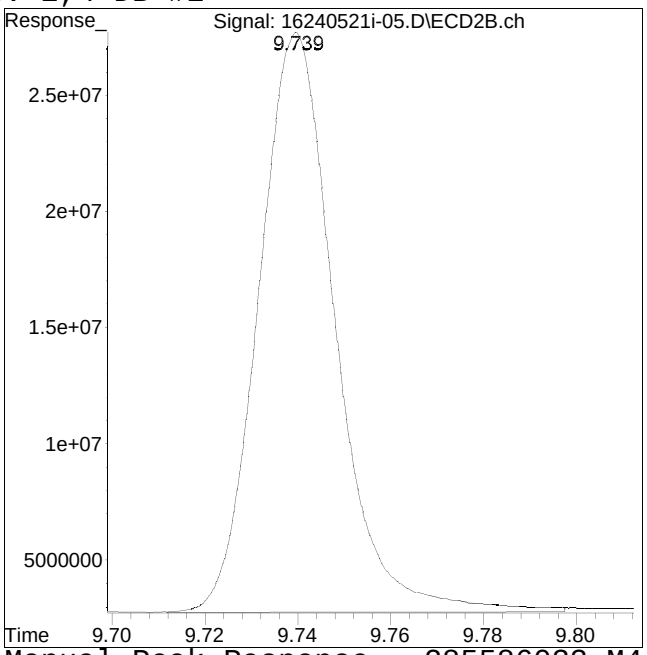
Manual Peak Response = 116783729 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240521iQMethod : Herb16_2024_05_21_ICAL.m
Data File : 16240521i-05.D Operator : pest16:jag
Date Inj'd : 5/21/2024 6:57 pm Instrument : PEST16
Sample : il4herb,42e,,pp 11461 L0.5Quant Date : 5/24/2024 9:12 am

Compound #24: 2,4-DB #2



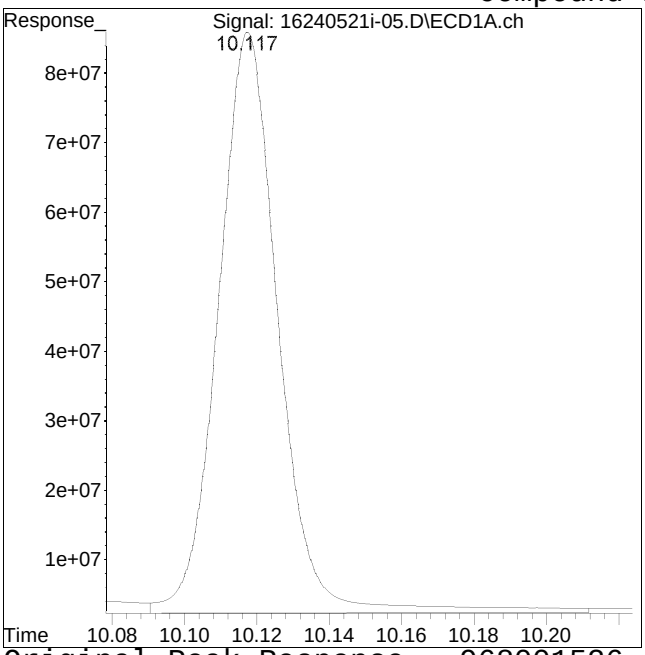


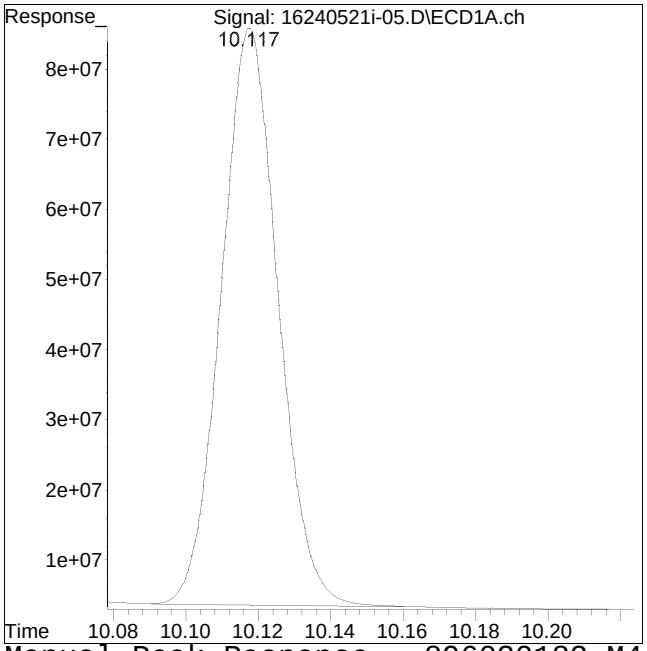
Original Peak Response = 291236391 Manual Peak Response = 285586033 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240521iQMethod : Herb16_2024_05_21_ICAL.m
Data File : 16240521i-05.D Operator : pest16:jag
Date Inj'd : 5/21/2024 6:57 pm Instrument : PEST16
Sample : il4herb,42e,,pp 11461 L0.5Quant Date : 5/24/2024 9:12 am

Compound #12: Dinoseb



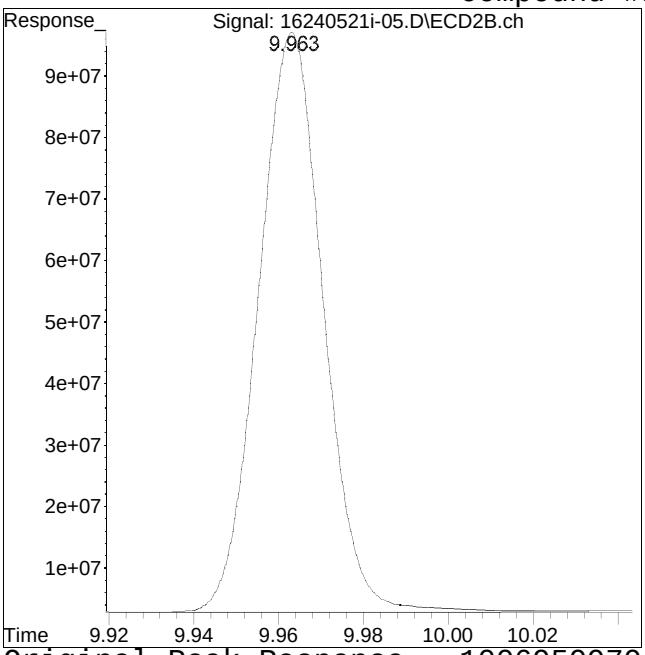


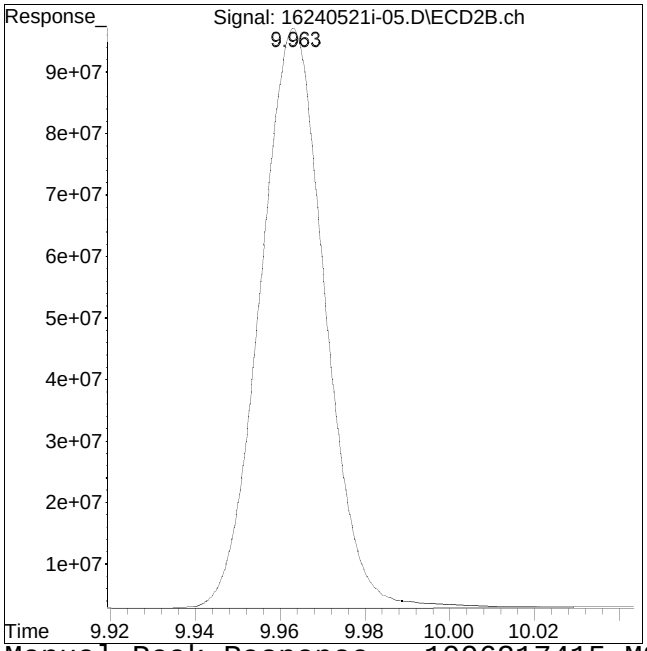
Original Peak Response = 968001526 Manual Peak Response = 896030182 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240521iQMethod : Herb16_2024_05_21_ICAL.m
Data File : 16240521i-05.D Operator : pest16:jag
Date Inj'd : 5/21/2024 6:57 pm Instrument : PEST16
Sample : il4herb,42e,,pp 11461 L0.5Quant Date : 5/24/2024 9:12 am

Compound #25: Dinoseb #2





Original Peak Response = 1006959979 Manual Peak Response = 1006217415 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest16\2024\240521ical\
Data File : 16240521i-06.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 21 May 2024 7:15 pm
Operator : pest16:jag
Sample : il5herb,42e,,pp 11460 L1/100
Misc : wg1925170, (Sig #1); ,,ical (Sig #2)
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 24 09:12:51 2024
Quant Method : I:\PCB\Pest16\2024\240521ical\Herb16_2024_05_21_ICAL.m
Quant Title : herb
QLast Update : Fri May 24 09:12:51 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

		Compound	RT#1	RT#2	Resp#1	Resp#2	mg/l	mg/l
		Internal Standards						
1)	i	4,4'-DBOB	8.448	8.369	981.1E6	1357.2E6	0.250M4	0.250M4
		System Monitoring Compounds						
3)	s	DCAA (surrog	6.876	7.271	275.5E6	812.2E6	0.947M4	0.956M3
		Spiked Amount	0.500	Range 30 - 150		Recovery =	189.40%#	191.20%#
		Target Compounds						
2)	t	Dalapon	1.865	1.821	514.1E6	812.4E6	0.924M3	0.935M3
4)	t	Dicamba	7.061	7.451	1394.1E6	2533.7E6	0.903M3	0.829M4
5)	t	MCPP	7.271	7.572	70332559	434.7E6	95.852M3	97.673M4
6)	t	MCPA	7.419	7.802	104.3E6	657.2E6	94.303M4	96.816M4
7)	t	Dichloroprop	7.776	8.122	361.1E6	771.1E6	0.827M4	0.815M4
8)	t	2,4-D	7.988	8.402	436.3E6	960.1E6	0.839M4	0.816M4
9)	t	2,4,5-TP (Si	8.720	9.076	2878.8E6	3605.9E6	0.937M4	0.859M3
10)	t	2,4,5-T	8.941	9.370	2511.4E6	3345.7E6	0.937M4	0.886M4
11)	t	2,4-DB	9.355	9.738	236.6E6	560.2E6	0.929M4	0.905M4
12)	t	Dinoseb	10.116	9.962	1837.5E6	1935.9E6	0.924M4	0.847M4
		SemiQuant Compounds - Not Calibrated on this Instrument						

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest16\2024\240521ical\
Data File : 16240521i-06.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 21 May 2024 7:15 pm
Operator : pest16:jag
Sample : il5herb,42e,,pp 11460 L1/100
Misc : wg1925170, (Sig #1); ,,ical (Sig #2)
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 24 09:12:51 2024
Quant Method : I:\PCB\Pest16\2024\240521ical\Herb16_2024_05_21_ICAL.m
Quant Title : herb
QLast Update : Fri May 24 09:12:51 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	mg/l	mg/l

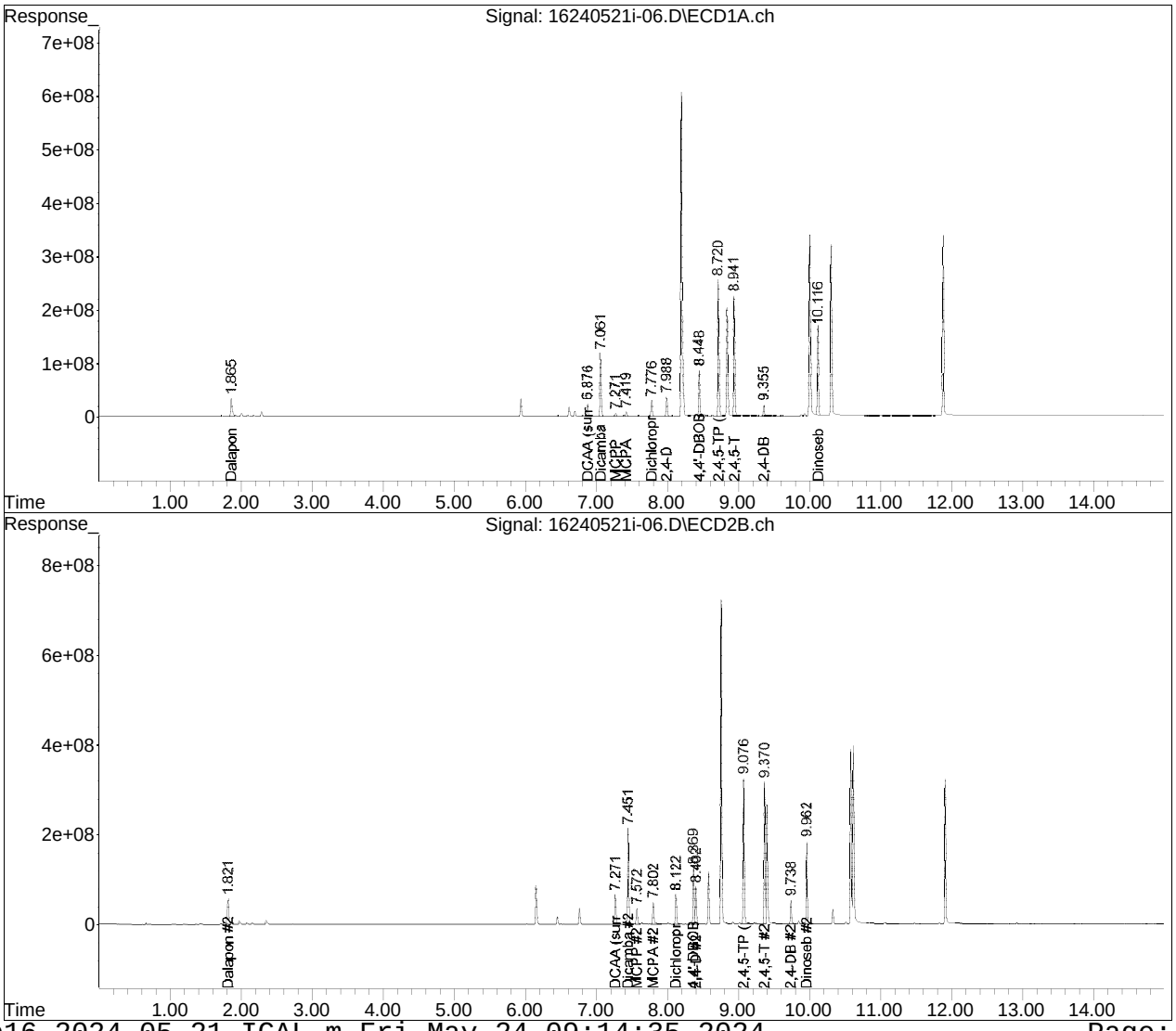
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PCB\Pest16\2024\240521ical\
Data File : 16240521i-06.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 21 May 2024 7:15 pm
Operator : pest16:jag
Sample : il5herb,42e,,pp 11460 L1/100
Misc : wg1925170, (Sig #1); ,,ical (Sig #2)
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 24 09:12:51 2024
Quant Method : I:\PCB\Pest16\2024\240521ical\Herb16_2024_05_21_ICAL.m
Quant Title : herb
QLast Update : Fri May 24 09:12:51 2024
Response via : Initial Calibration
Integrator: ChemStation

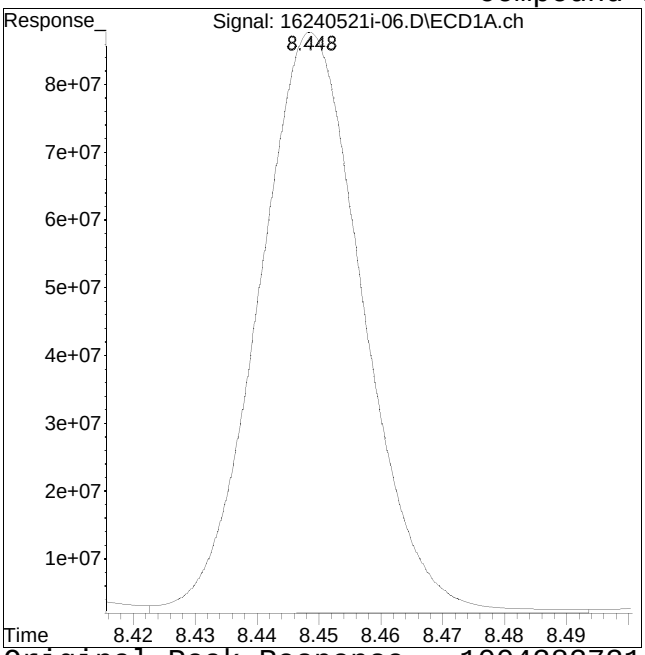
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

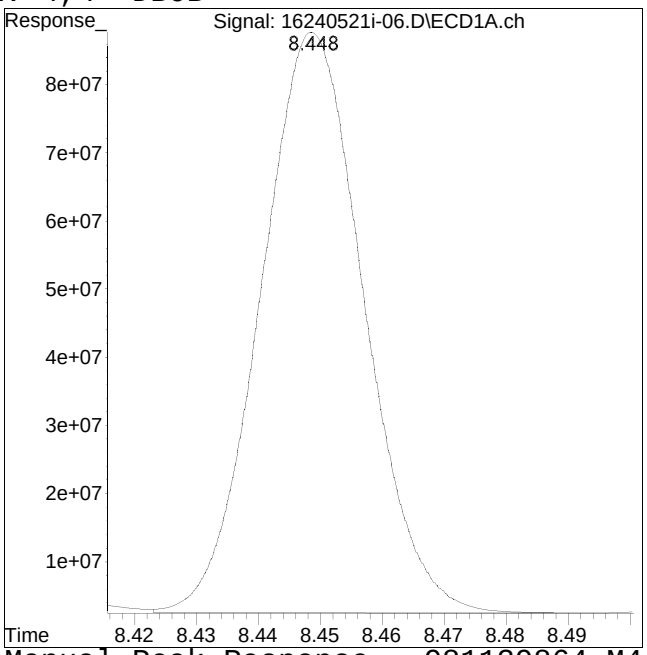


Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240521iQMethod : Herb16_2024_05_21_ICAL.m
Data File : 16240521i-06.D Operator : pest16:jag
Date Inj'd : 5/21/2024 7:15 pm Instrument : PEST16
Sample : il5herb,42e,,pp 11460 L1/1Quant Date : 5/24/2024 9:12 am

Compound #1: 4,4'-DBOB



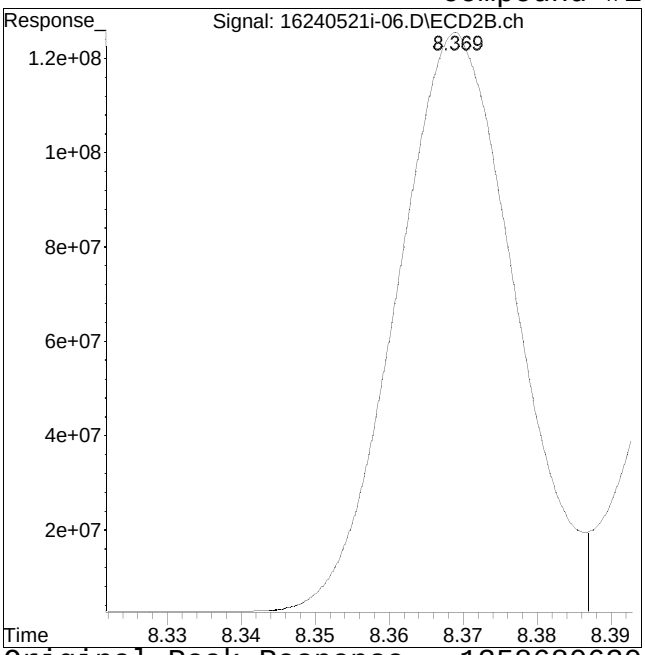


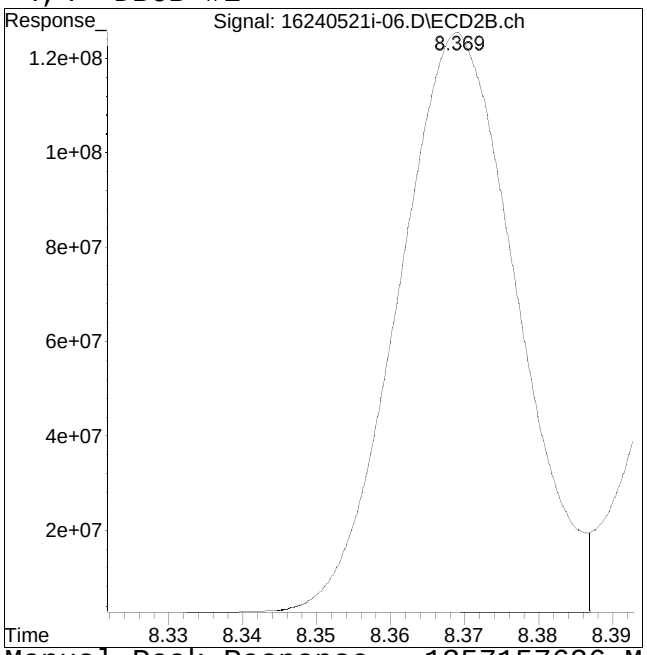
Original Peak Response = 1004383731 Manual Peak Response = 981139864 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240521iQMethod : Herb16_2024_05_21_ICAL.m
Data File : 16240521i-06.D Operator : pest16:jag
Date Inj'd : 5/21/2024 7:15 pm Instrument : PEST16
Sample : il5herb,42e,,pp 11460 L1/1Quant Date : 5/24/2024 9:12 am

Compound #14: 4,4'-DBOB #2



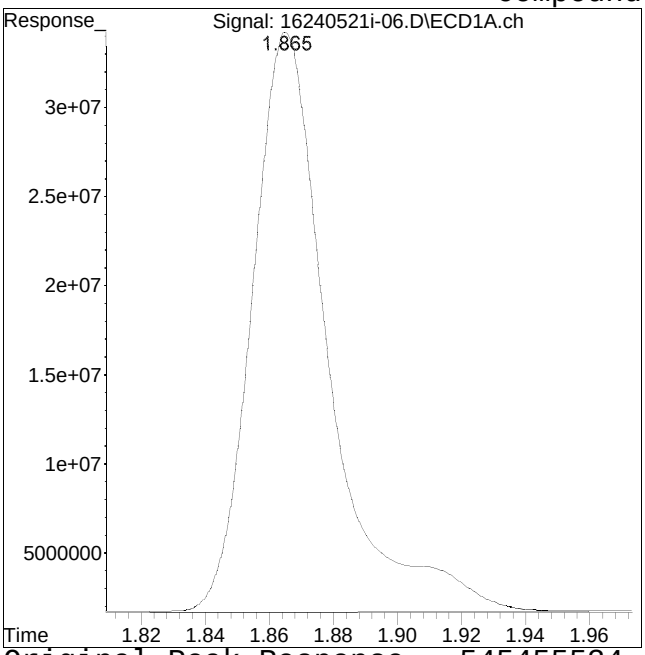


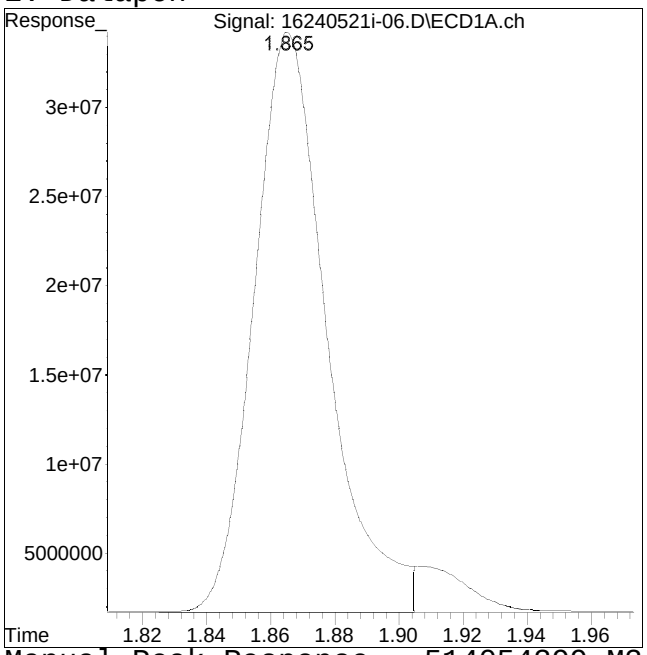
Original Peak Response = 1358680630 Manual Peak Response = 1357157626 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240521iQMethod : Herb16_2024_05_21_ICAL.m
Data File : 16240521i-06.D Operator : pest16:jag
Date Inj'd : 5/21/2024 7:15 pm Instrument : PEST16
Sample : il5herb,42e,,pp 11460 L1/1Quant Date : 5/24/2024 9:12 am

Compound #2: Dalapon



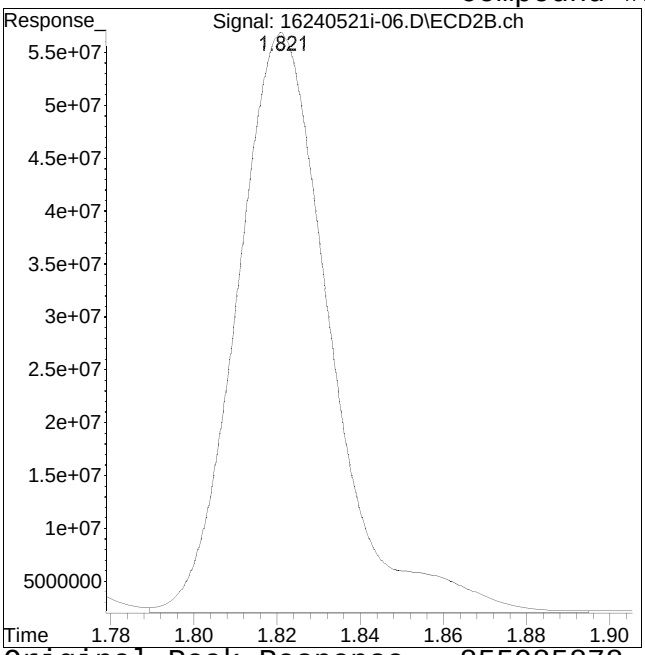


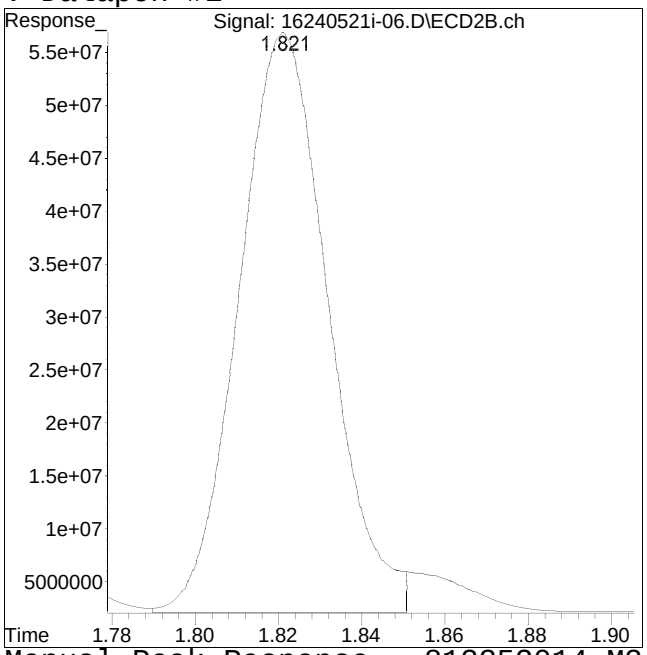
Original Peak Response = 545455534 Manual Peak Response = 514054399 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240521iQMethod : Herb16_2024_05_21_ICAL.m
Data File : 16240521i-06.D Operator : pest16:jag
Date Inj'd : 5/21/2024 7:15 pm Instrument : PEST16
Sample : il5herb,42e,,pp 11460 L1/1Quant Date : 5/24/2024 9:12 am

Compound #15: Dalapon #2



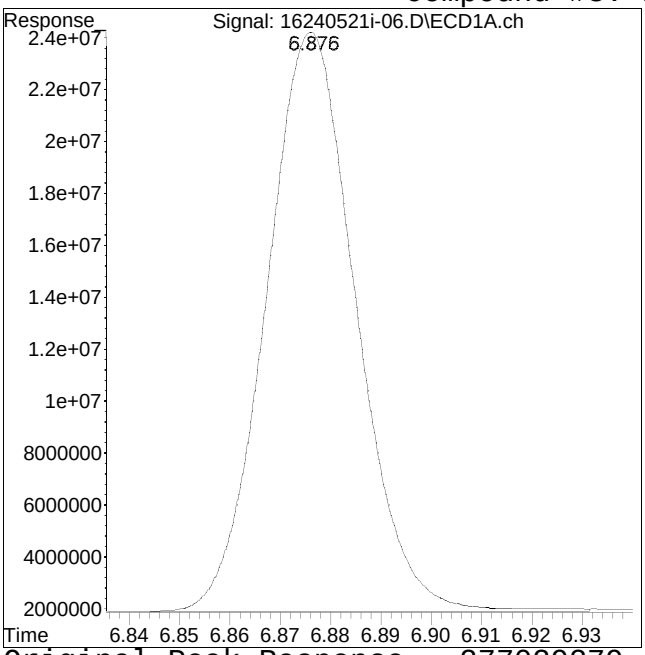


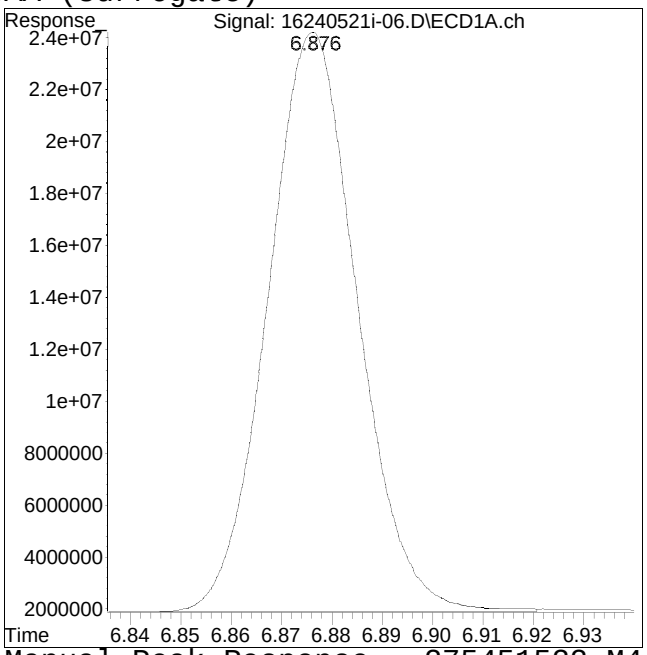
Original Peak Response = 855985878 Manual Peak Response = 812353014 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240521iQMethod : Herb16_2024_05_21_ICAL.m
Data File : 16240521i-06.D Operator : pest16:jag
Date Inj'd : 5/21/2024 7:15 pm Instrument : PEST16
Sample : il5herb,42e,,pp 11460 L1/1Quant Date : 5/24/2024 9:12 am

Compound #3: DCAA (surrogate)



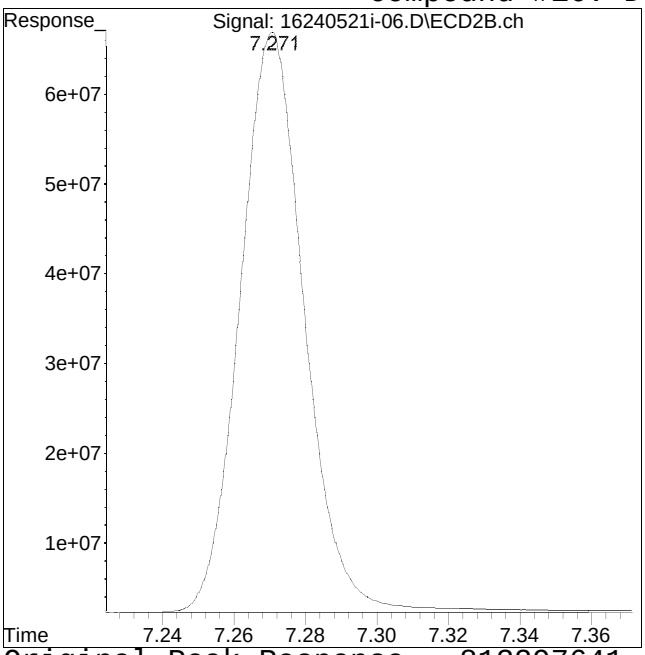


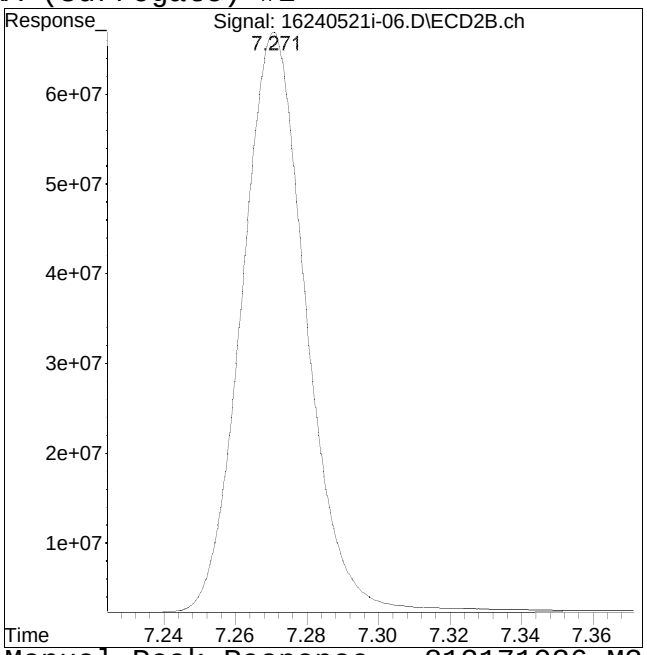
Original Peak Response = 277029279 Manual Peak Response = 275451522 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240521iQMethod : Herb16_2024_05_21_ICAL.m
Data File : 16240521i-06.D Operator : pest16:jag
Date Inj'd : 5/21/2024 7:15 pm Instrument : PEST16
Sample : il5herb,42e,,pp 11460 L1/1Quant Date : 5/24/2024 9:12 am

Compound #16: DCAA (surrogate) #2



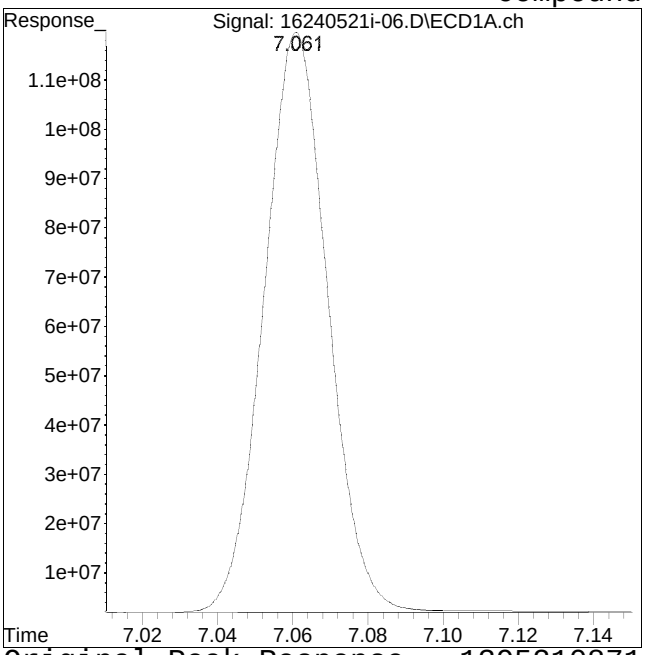


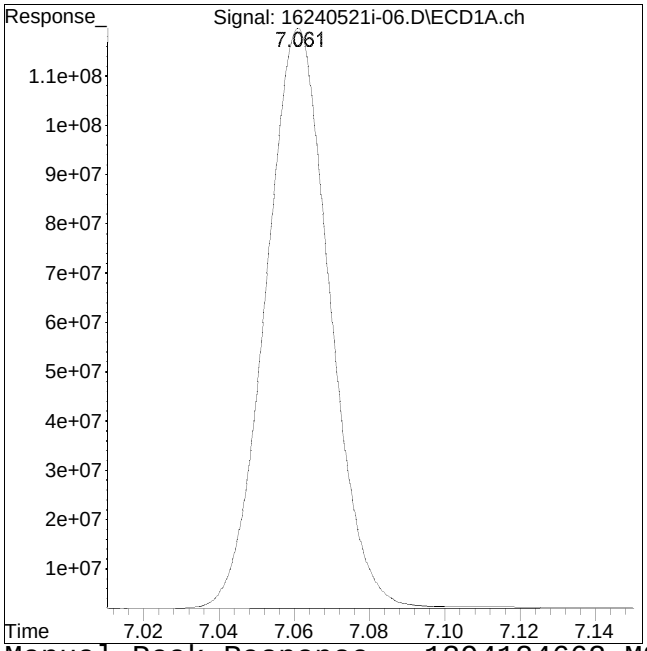
Original Peak Response = 813297641 Manual Peak Response = 812171036 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240521iQMethod : Herb16_2024_05_21_ICAL.m
Data File : 16240521i-06.D Operator : pest16:jag
Date Inj'd : 5/21/2024 7:15 pm Instrument : PEST16
Sample : il5herb,42e,,pp 11460 L1/1Quant Date : 5/24/2024 9:12 am

Compound #4: Dicamba



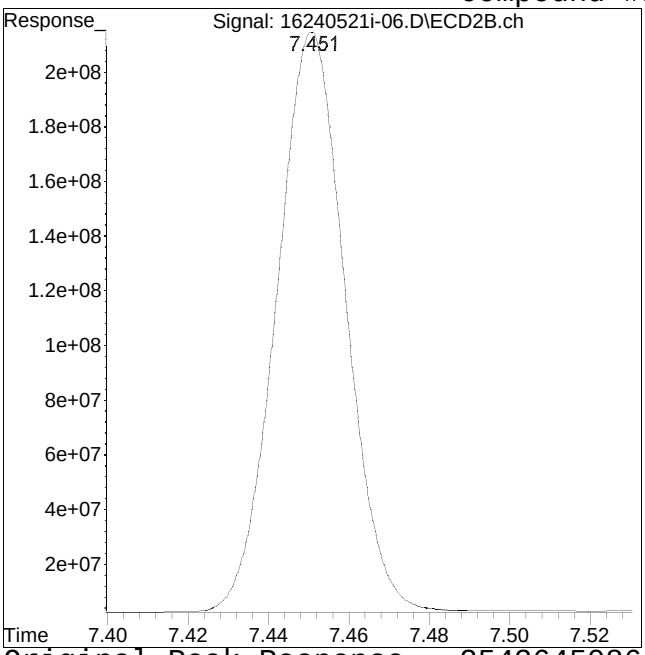


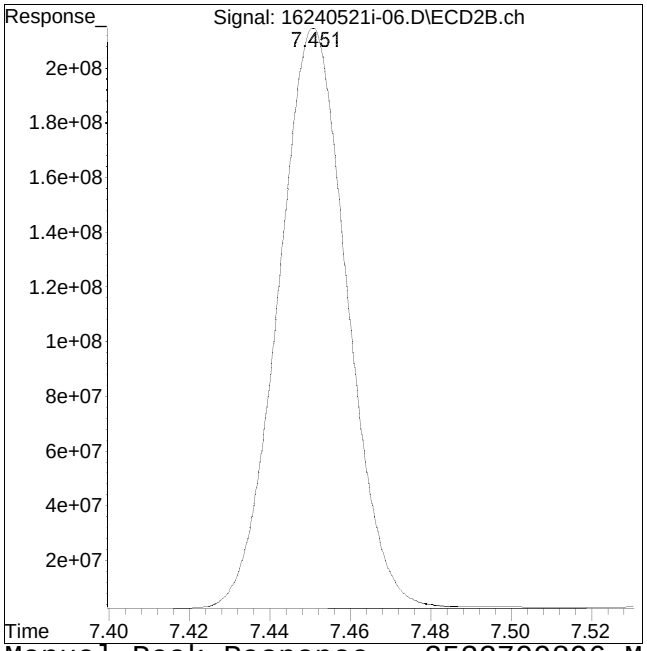
Original Peak Response = 1395210871 Manual Peak Response = 1394124662 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240521iQMethod : Herb16_2024_05_21_ICAL.m
Data File : 16240521i-06.D Operator : pest16:jag
Date Inj'd : 5/21/2024 7:15 pm Instrument : PEST16
Sample : il5herb,42e,,pp 11460 L1/1Quant Date : 5/24/2024 9:12 am

Compound #17: Dicamba #2



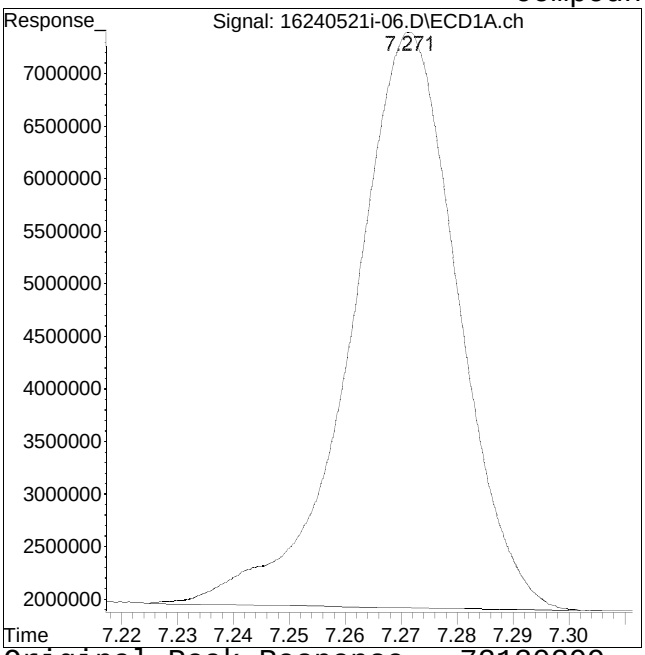


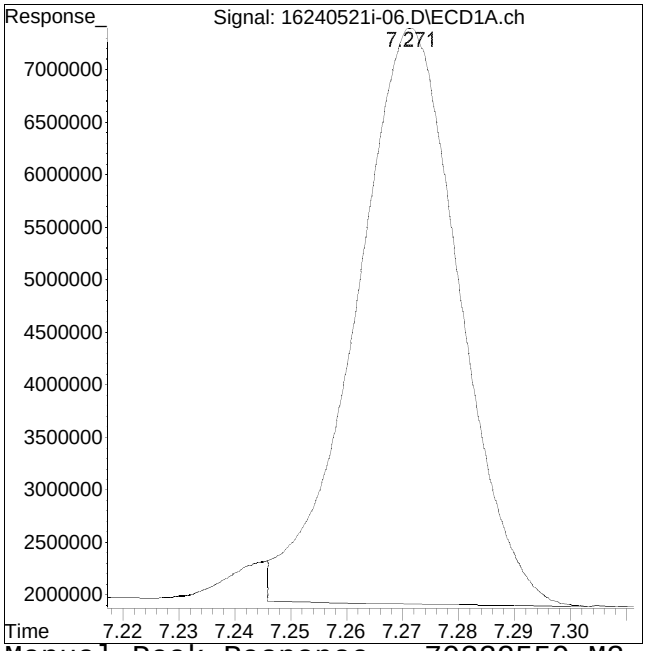
Original Peak Response = 2543645086 Manual Peak Response = 2533709896 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240521iQMethod : Herb16_2024_05_21_ICAL.m
Data File : 16240521i-06.D Operator : pest16:jag
Date Inj'd : 5/21/2024 7:15 pm Instrument : PEST16
Sample : il5herb,42e,,pp 11460 L1/1Quant Date : 5/24/2024 9:12 am

Compound #5: MCPP



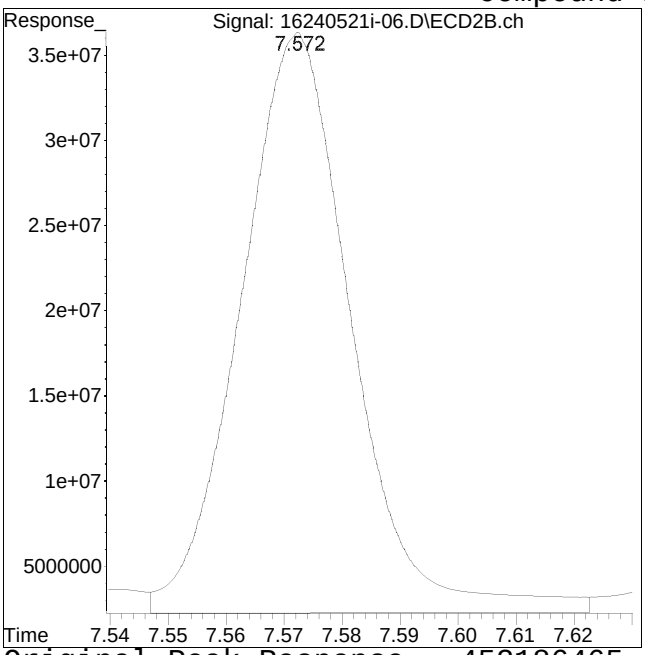


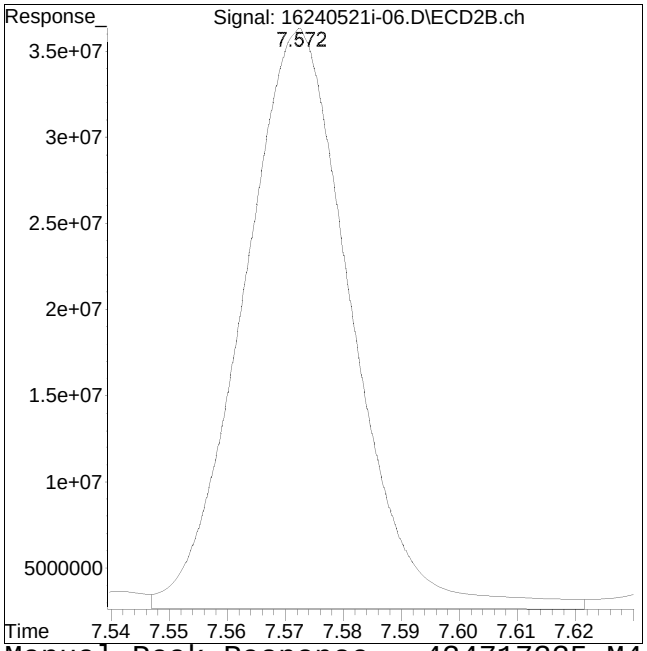
Original Peak Response = 72130299 Manual Peak Response = 70332559 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240521iQMethod : Herb16_2024_05_21_ICAL.m
Data File : 16240521i-06.D Operator : pest16:jag
Date Inj'd : 5/21/2024 7:15 pm Instrument : PEST16
Sample : il5herb,42e,,pp 11460 L1/1Quant Date : 5/24/2024 9:12 am

Compound #18: MCPP #2



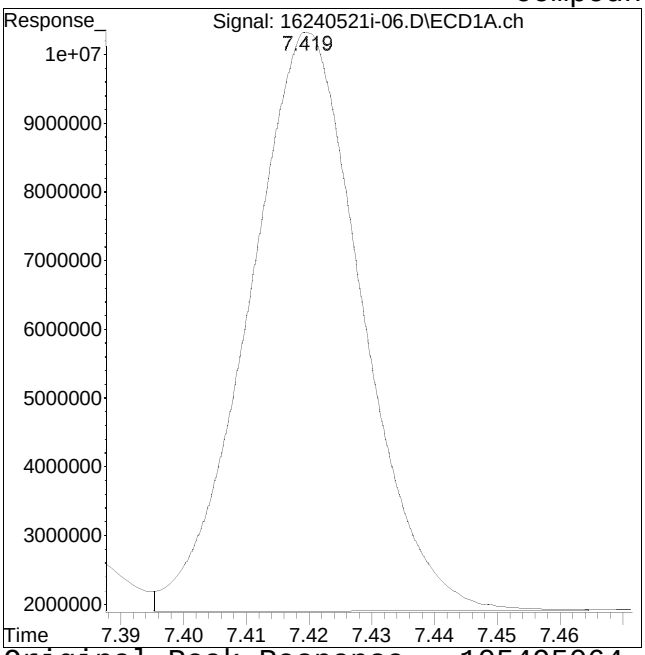


Original Peak Response = 452186465 Manual Peak Response = 434717335 M4
M4 = Poor automated baseline construction.

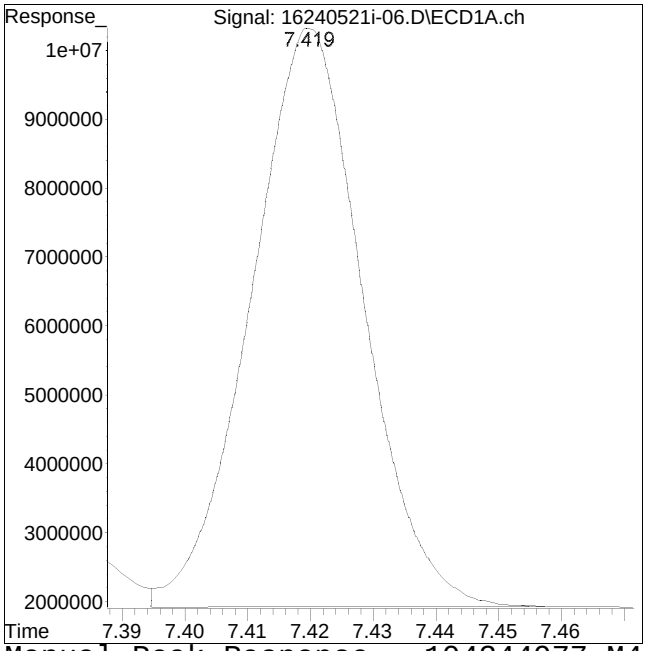
Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240521iQMethod : Herb16_2024_05_21_ICAL.m
Data File : 16240521i-06.D Operator : pest16:jag
Date Inj'd : 5/21/2024 7:15 pm Instrument : PEST16
Sample : il5herb,42e,,pp 11460 L1/1Quant Date : 5/24/2024 9:12 am

Compound #6: MCPA



Original Peak Response = 105495064



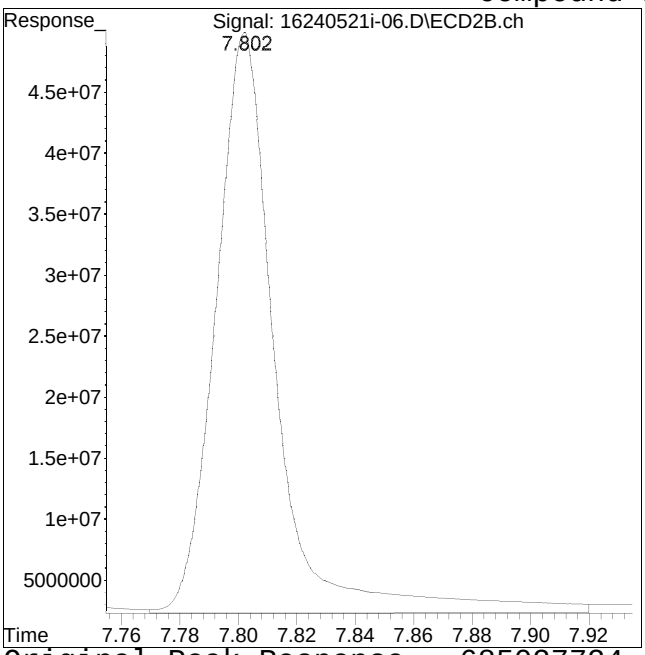
Manual Peak Response = 104344977 M4

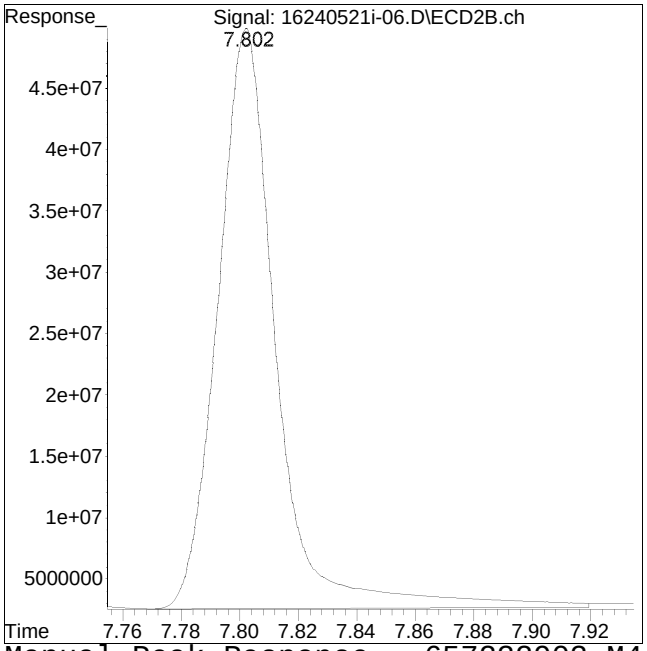
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240521iQMethod : Herb16_2024_05_21_ICAL.m
Data File : 16240521i-06.D Operator : pest16:jag
Date Inj'd : 5/21/2024 7:15 pm Instrument : PEST16
Sample : il5herb,42e,,pp 11460 L1/1Quant Date : 5/24/2024 9:12 am

Compound #19: MCPA #2



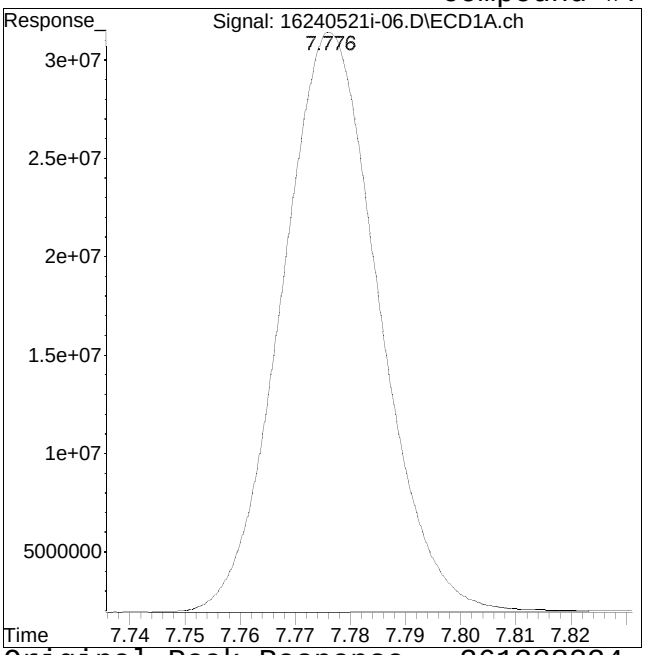


Original Peak Response = 685027724 Manual Peak Response = 657232903 M4
M4 = Poor automated baseline construction.

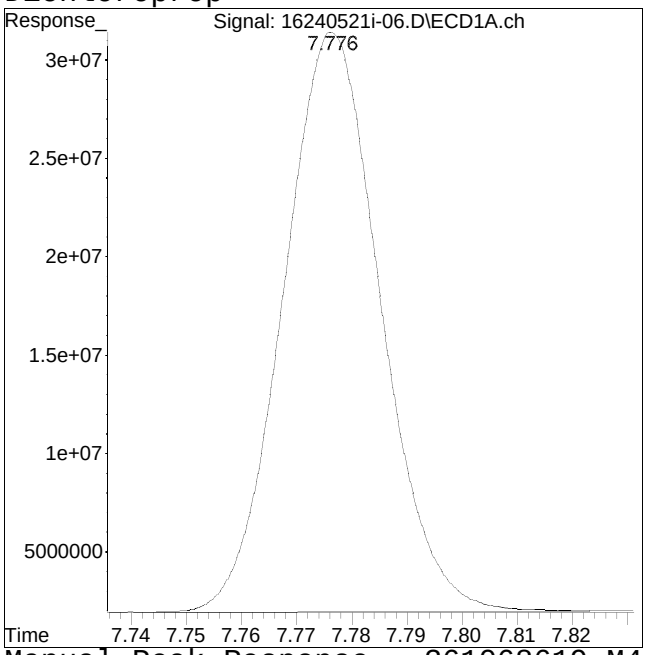
Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240521iQMethod : Herb16_2024_05_21_ICAL.m
Data File : 16240521i-06.D Operator : pest16:jag
Date Inj'd : 5/21/2024 7:15 pm Instrument : PEST16
Sample : il5herb,42e,,pp 11460 L1/1Quant Date : 5/24/2024 9:12 am

Compound #7: Dichloroprop



Original Peak Response = 361333334



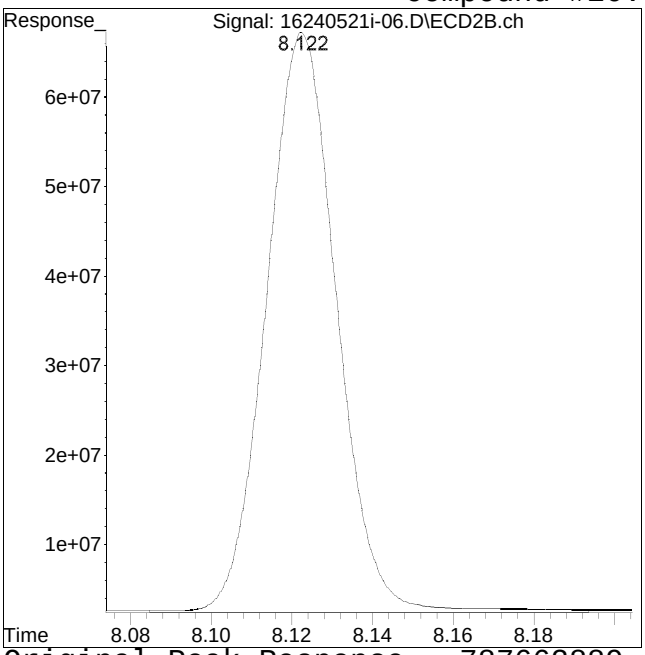
Manual Peak Response = 361068619 M4

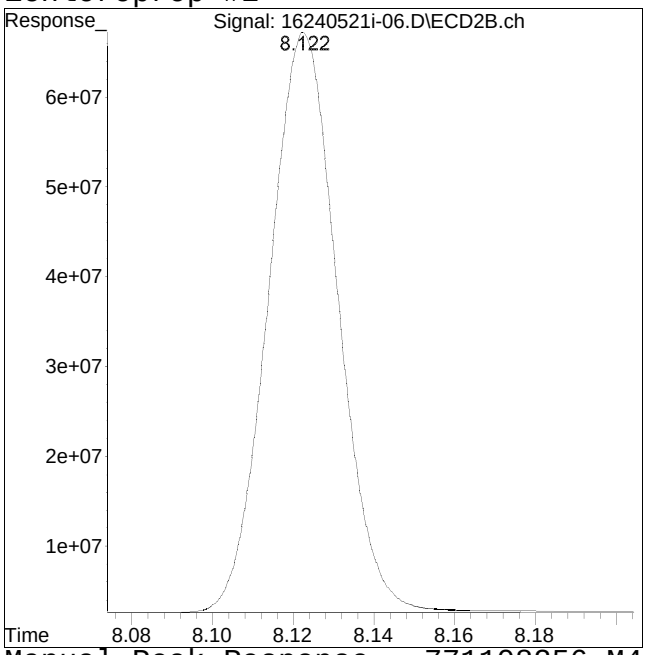
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240521iQMethod : Herb16_2024_05_21_ICAL.m
Data File : 16240521i-06.D Operator : pest16:jag
Date Inj'd : 5/21/2024 7:15 pm Instrument : PEST16
Sample : il5herb,42e,,pp 11460 L1/1Quant Date : 5/24/2024 9:12 am

Compound #20: Dichloroprop #2



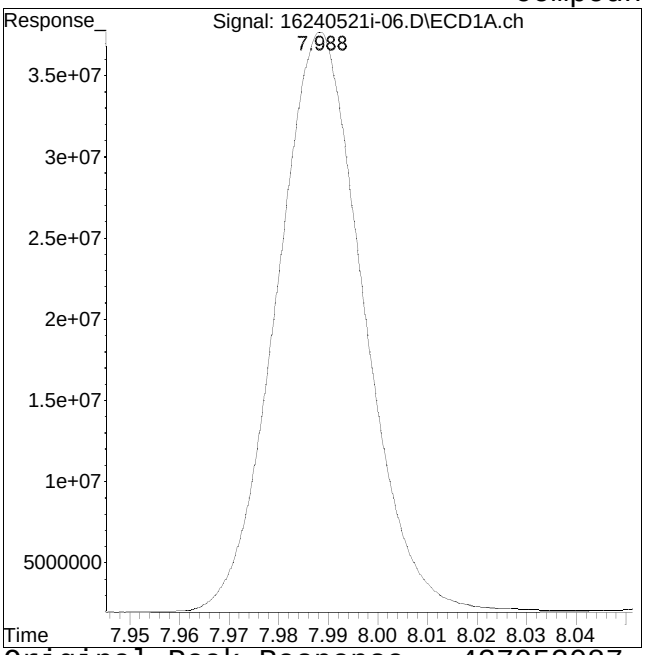


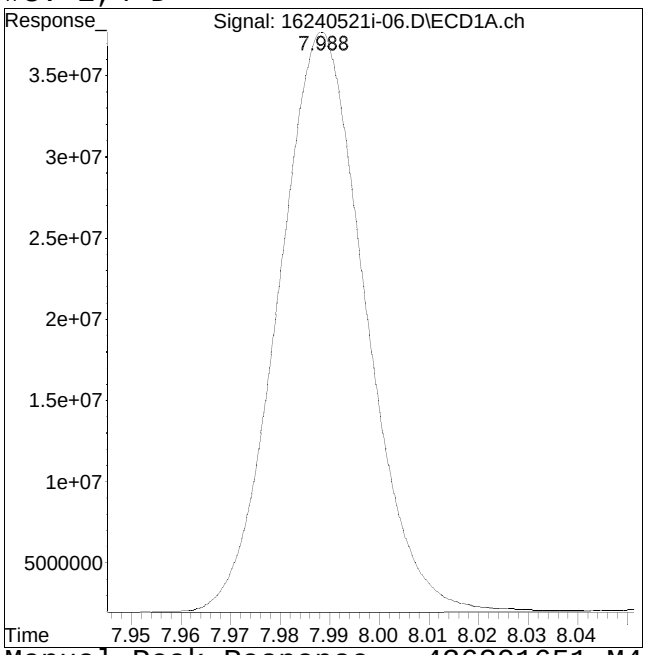
Original Peak Response = 787662889 Manual Peak Response = 771108256 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240521iQMethod : Herb16_2024_05_21_ICAL.m
Data File : 16240521i-06.D Operator : pest16:jag
Date Inj'd : 5/21/2024 7:15 pm Instrument : PEST16
Sample : il5herb,42e,,pp 11460 L1/1Quant Date : 5/24/2024 9:12 am

Compound #8: 2,4-D



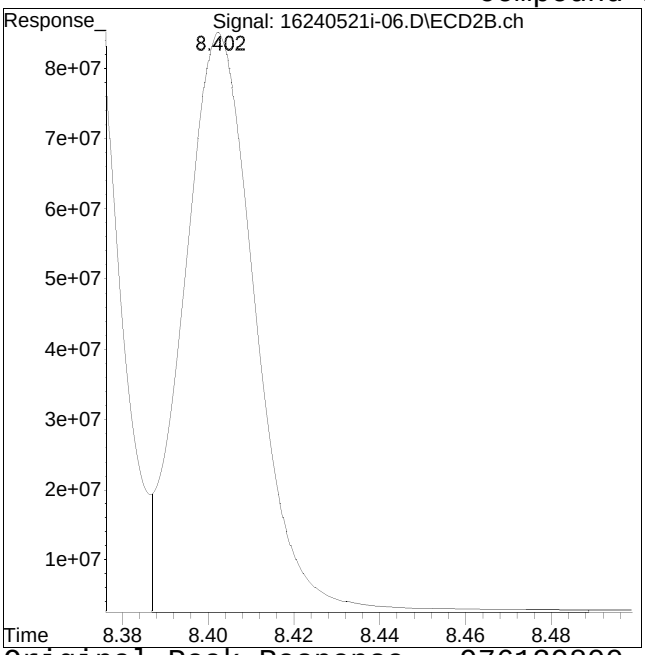


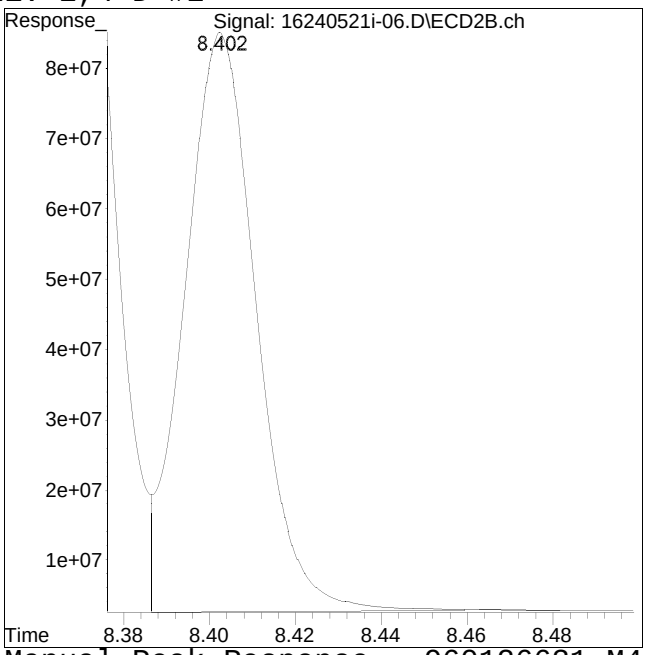
Original Peak Response = 437053087 Manual Peak Response = 436301651 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240521iQMethod : Herb16_2024_05_21_ICAL.m
Data File : 16240521i-06.D Operator : pest16:jag
Date Inj'd : 5/21/2024 7:15 pm Instrument : PEST16
Sample : il5herb,42e,,pp 11460 L1/1Quant Date : 5/24/2024 9:12 am

Compound #21: 2,4-D #2



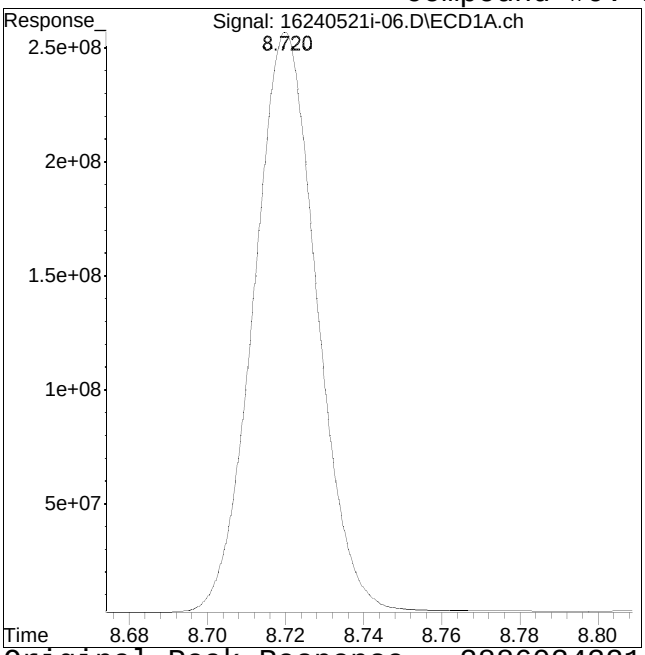


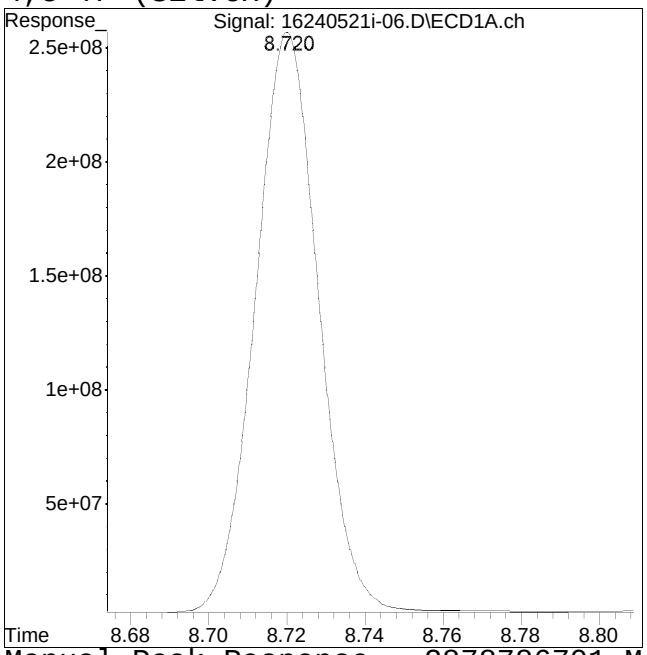
Original Peak Response = 976139800 Manual Peak Response = 960126631 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240521iQMethod : Herb16_2024_05_21_ICAL.m
Data File : 16240521i-06.D Operator : pest16:jag
Date Inj'd : 5/21/2024 7:15 pm Instrument : PEST16
Sample : il5herb,42e,,pp 11460 L1/1Quant Date : 5/24/2024 9:12 am

Compound #9: 2,4,5-TP (Silvex)



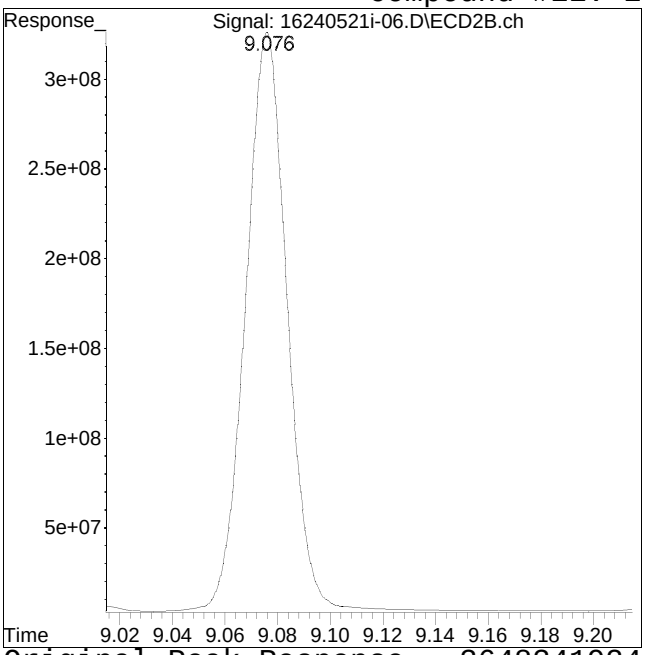


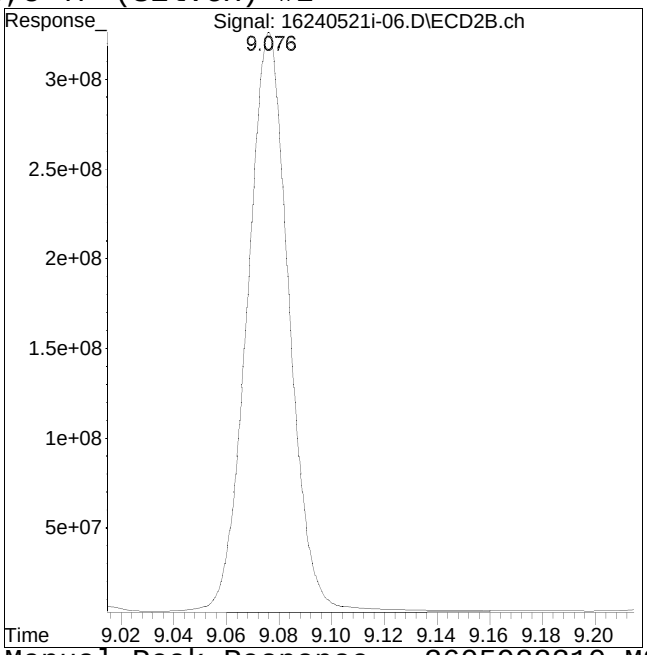
Original Peak Response = 2886024321 Manual Peak Response = 2878786701 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240521iQMethod : Herb16_2024_05_21_ICAL.m
Data File : 16240521i-06.D Operator : pest16:jag
Date Inj'd : 5/21/2024 7:15 pm Instrument : PEST16
Sample : il5herb,42e,,pp 11460 L1/1Quant Date : 5/24/2024 9:12 am

Compound #22: 2,4,5-TP (Silvex) #2



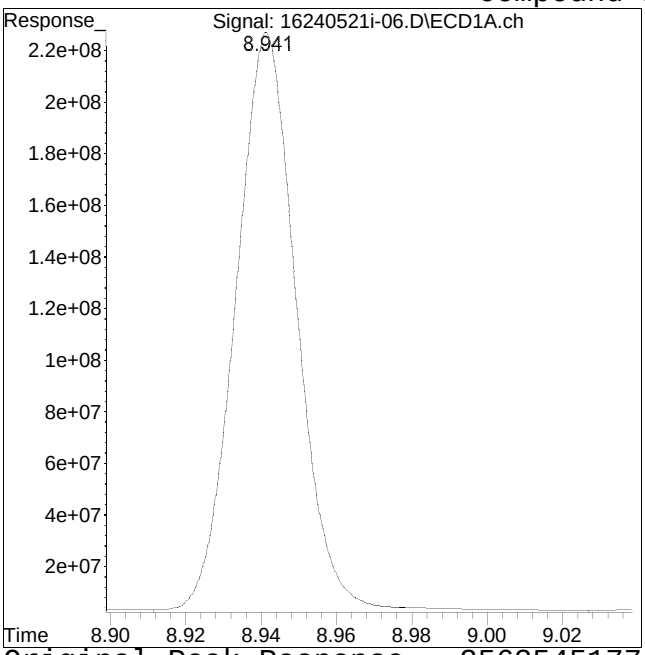


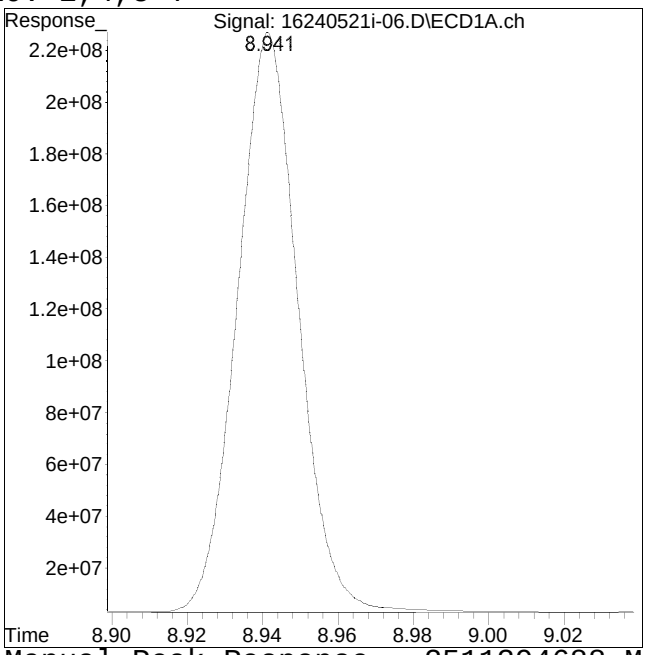
Original Peak Response = 3648341924 Manual Peak Response = 3605922310 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240521iQMethod : Herb16_2024_05_21_ICAL.m
Data File : 16240521i-06.D Operator : pest16:jag
Date Inj'd : 5/21/2024 7:15 pm Instrument : PEST16
Sample : il5herb,42e,,pp 11460 L1/1Quant Date : 5/24/2024 9:12 am

Compound #10: 2,4,5-T



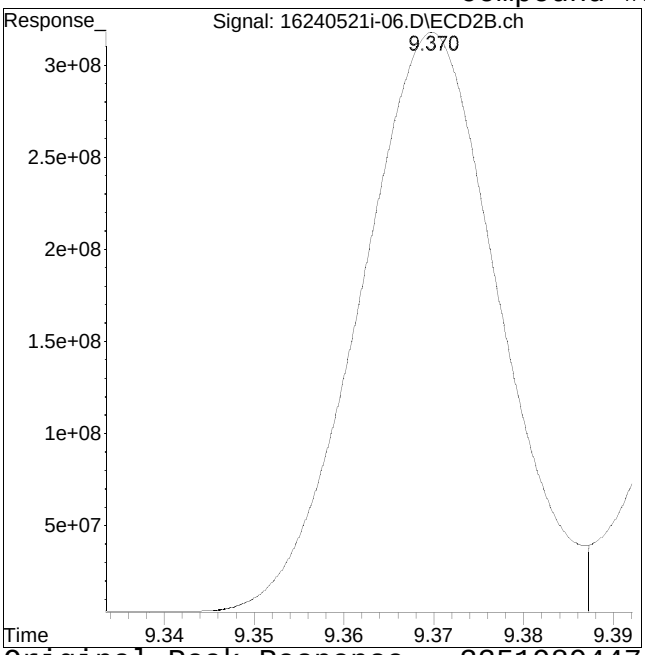


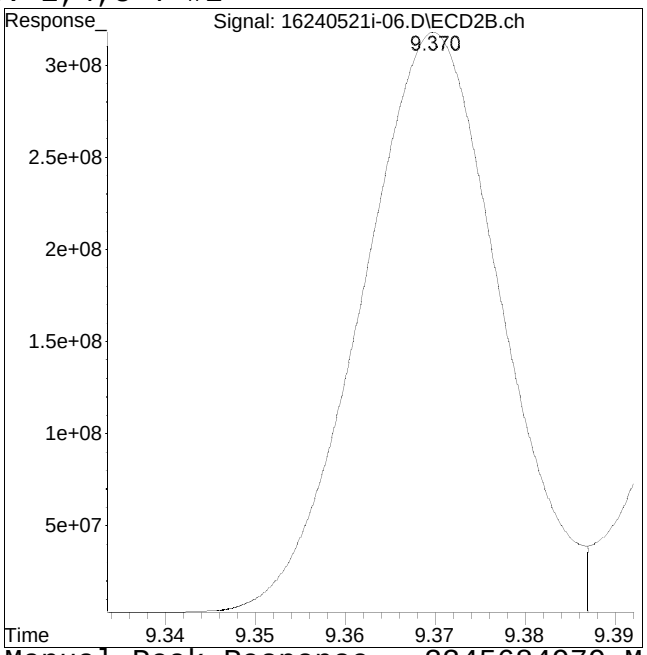
Original Peak Response = 2563545177 Manual Peak Response = 2511394688 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240521iQMethod : Herb16_2024_05_21_ICAL.m
Data File : 16240521i-06.D Operator : pest16:jag
Date Inj'd : 5/21/2024 7:15 pm Instrument : PEST16
Sample : il5herb,42e,,pp 11460 L1/1Quant Date : 5/24/2024 9:12 am

Compound #23: 2,4,5-T #2



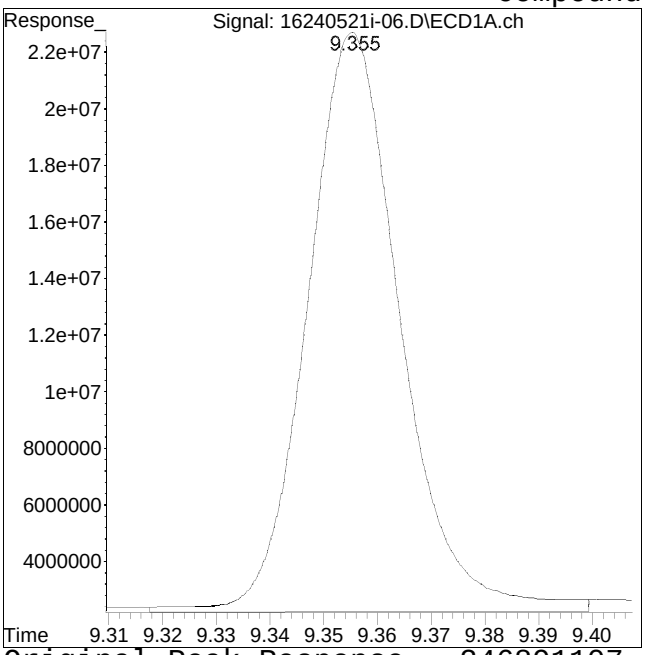


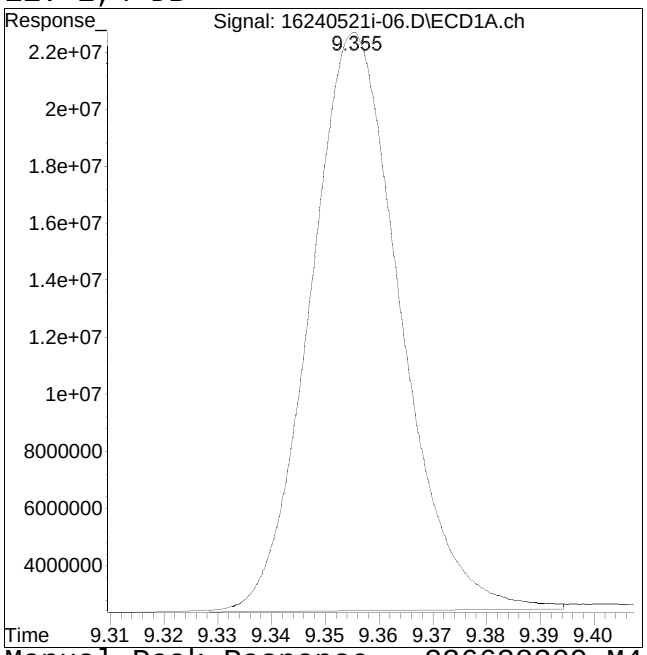
Original Peak Response = 3351989447 Manual Peak Response = 3345684979 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240521iQMethod : Herb16_2024_05_21_ICAL.m
Data File : 16240521i-06.D Operator : pest16:jag
Date Inj'd : 5/21/2024 7:15 pm Instrument : PEST16
Sample : il5herb,42e,,pp 11460 L1/1Quant Date : 5/24/2024 9:12 am

Compound #11: 2,4-DB



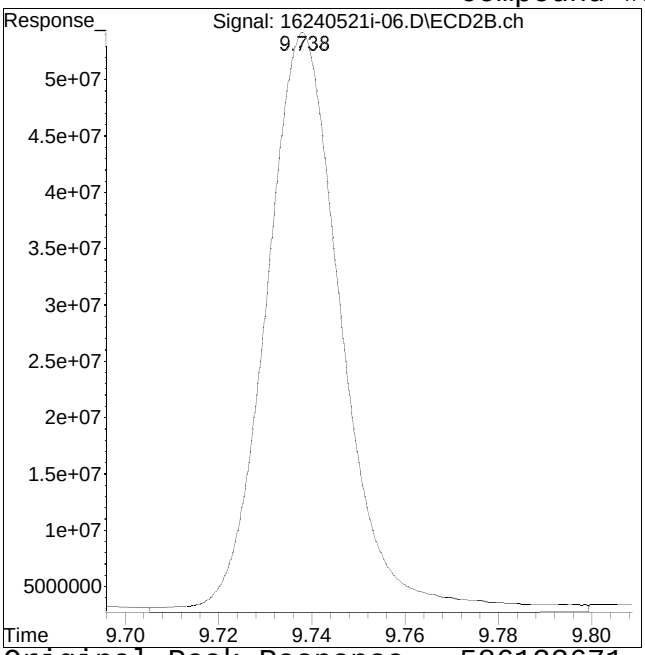


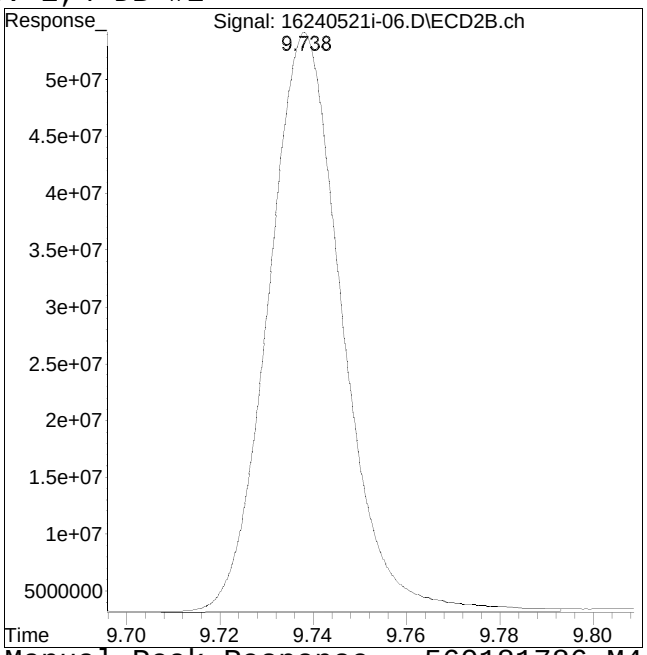
Original Peak Response = 246891107 Manual Peak Response = 236638309 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240521iQMethod : Herb16_2024_05_21_ICAL.m
Data File : 16240521i-06.D Operator : pest16:jag
Date Inj'd : 5/21/2024 7:15 pm Instrument : PEST16
Sample : il5herb,42e,,pp 11460 L1/1Quant Date : 5/24/2024 9:12 am

Compound #24: 2,4-DB #2



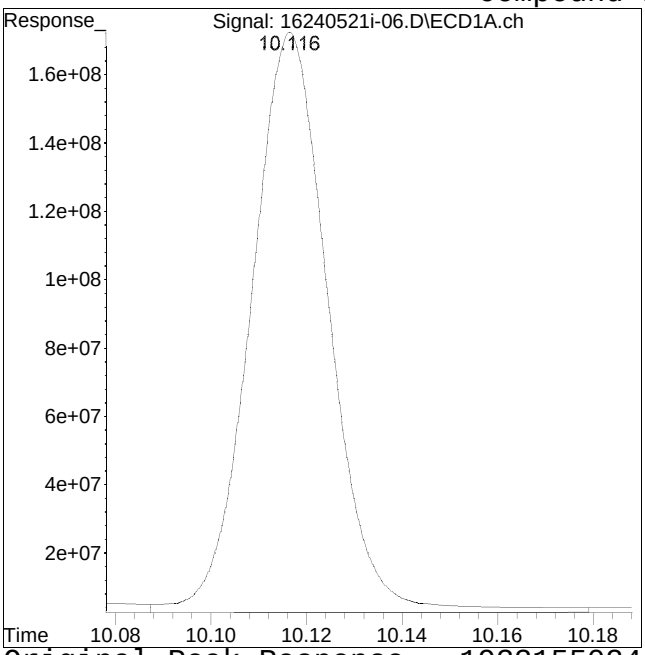


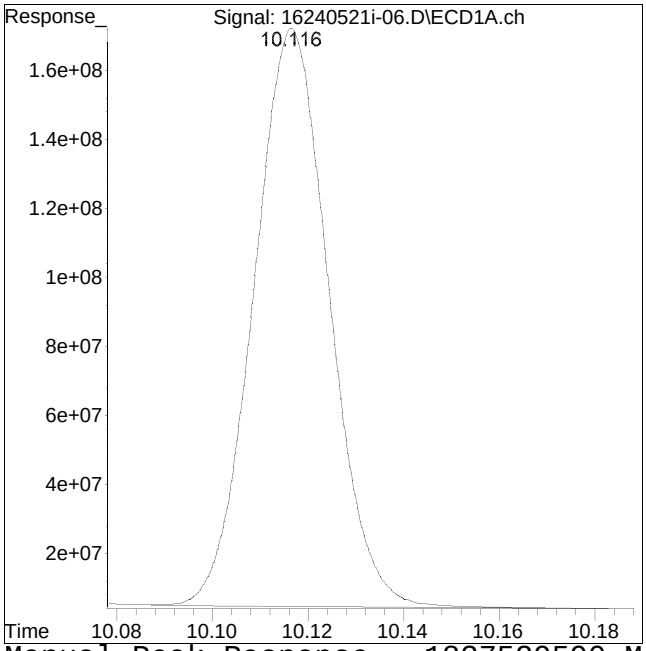
Original Peak Response = 586122671 Manual Peak Response = 560181786 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240521iQMethod : Herb16_2024_05_21_ICAL.m
Data File : 16240521i-06.D Operator : pest16:jag
Date Inj'd : 5/21/2024 7:15 pm Instrument : PEST16
Sample : il5herb,42e,,pp 11460 L1/1Quant Date : 5/24/2024 9:12 am

Compound #12: Dinoseb



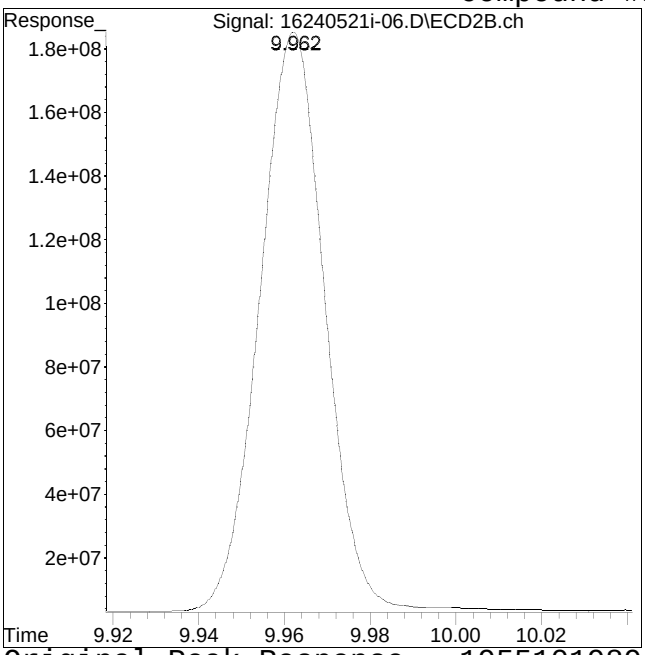


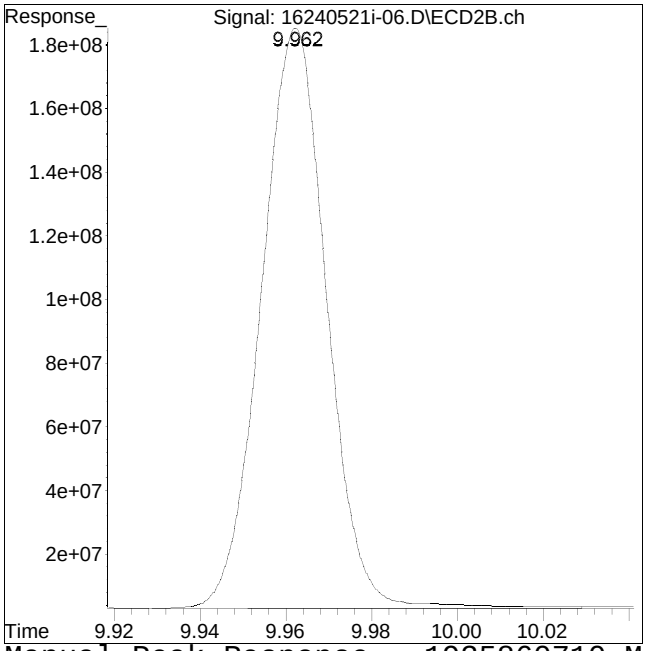
Original Peak Response = 1933155024 Manual Peak Response = 1837529590 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240521iQMethod : Herb16_2024_05_21_ICAL.m
Data File : 16240521i-06.D Operator : pest16:jag
Date Inj'd : 5/21/2024 7:15 pm Instrument : PEST16
Sample : il5herb,42e,,pp 11460 L1/1Quant Date : 5/24/2024 9:12 am

Compound #25: Dinoseb #2





Original Peak Response = 1955101989 Manual Peak Response = 1935860710 M4
M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest16\2024\240521ical\
Data File : 16240521i-07.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 21 May 2024 7:34 pm
Operator : pest16:jag
Sample : il6herb,42e,,pp 11459 L2/200
Misc : wg1925170, (Sig #1); ,,ical (Sig #2)
ALS Vial : 7 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 24 09:12:58 2024
Quant Method : I:\PCB\Pest16\2024\240521ical\Herb16_2024_05_21_ICAL.m
Quant Title : herb
QLast Update : Fri May 24 09:12:58 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

		Compound	RT#1	RT#2	Resp#1	Resp#2	mg/l	mg/l
		Internal Standards						
1)	i	4,4'-DBOB	8.447	8.368	1081.7E6	1461.8E6	0.250M4	0.250M4
		System Monitoring Compounds						
3)	s	DCAA (surrog	6.875	7.269	584.4E6	1636.3E6	1.849M4	1.821M4
		Spiked Amount	0.500	Range 30 - 150		Recovery =	369.80%#	364.20%#
		Target Compounds						
2)	t	Dalapon	1.867	1.824	1098.5E6	1629.4E6	1.806M4	1.766M4
4)	t	Dicamba	7.060	7.450	3110.1E6	5279.7E6	1.827M4	1.604M4
5)	t	MCPP	7.272	7.573	145.7E6	826.5E6	182.932M3	179.529M3
6)	t	MCPA	7.422	7.804	216.3E6	1229.5E6	181.761M4	176.494M4
7)	t	Dichloroprop	7.775	8.121	780.5E6	1594.8E6	1.622M4	1.565M3
8)	t	2,4-D	7.987	8.401	950.6E6	2022.1E6	1.659M4	1.595M4
9)	t	2,4,5-TP (Si	8.719	9.075	6553.7E6	7689.6E6	1.935M3	1.701M3
10)	t	2,4,5-T	8.939	9.368	5750.8E6	7405.3E6	1.946M4	1.821M4
11)	t	2,4-DB	9.353	9.736	537.2E6	1201.9E6	1.912M4	1.802M4
12)	t	Dinoseb	10.115	9.961	4220.7E6	4171.8E6	1.925M4	1.694M3
		SemiQuant Compounds - Not Calibrated on this Instrument						

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest16\2024\240521ical\
Data File : 16240521i-07.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 21 May 2024 7:34 pm
Operator : pest16:jag
Sample : il6herb,42e,,pp 11459 L2/200
Misc : wg1925170, (Sig #1); ,,ical (Sig #2)
ALS Vial : 7 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 24 09:12:58 2024
Quant Method : I:\PCB\Pest16\2024\240521ical\Herb16_2024_05_21_ICAL.m
Quant Title : herb
QLast Update : Fri May 24 09:12:58 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	mg/l	mg/l

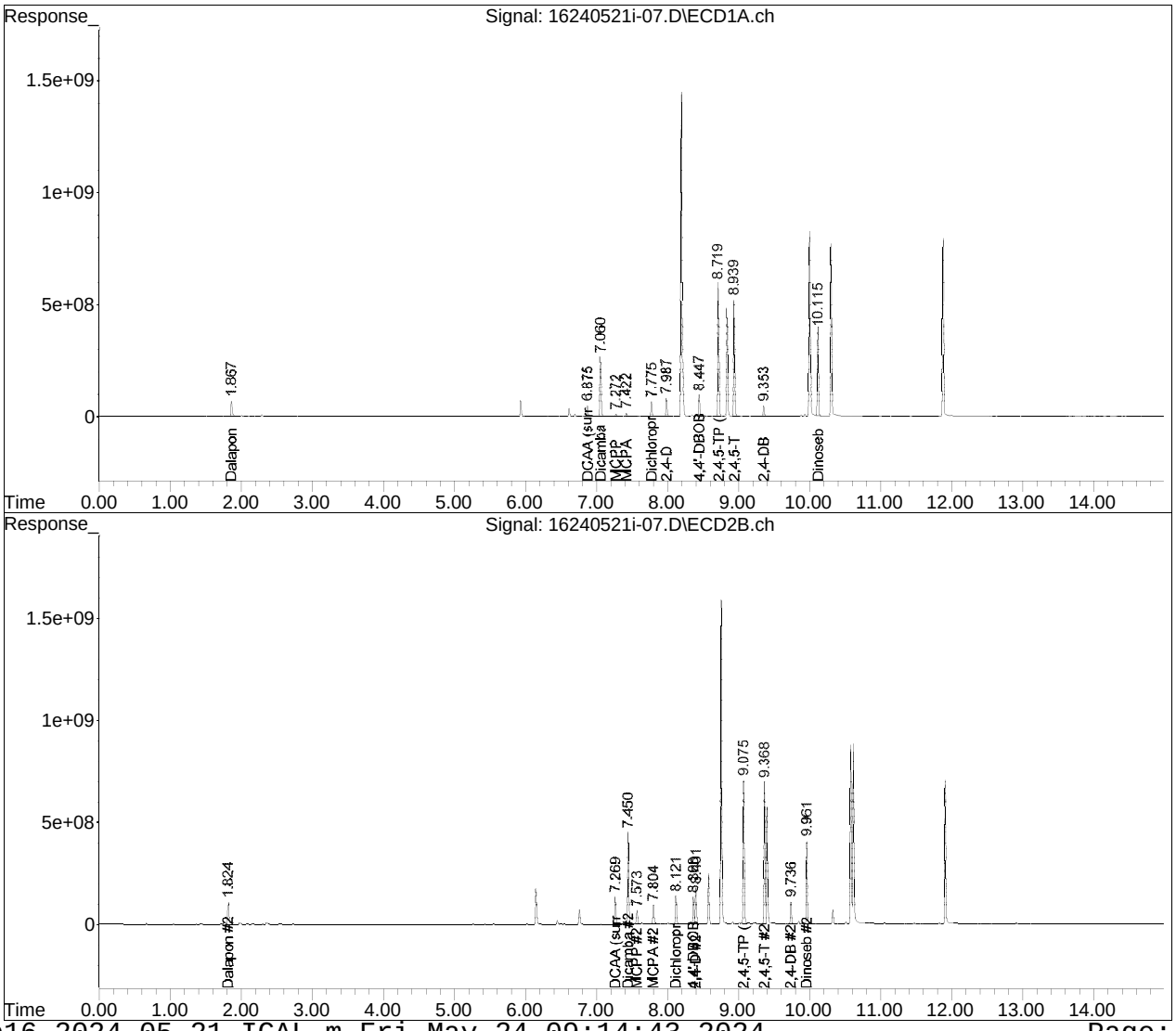
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PCB\Pest16\2024\240521ical\
Data File : 16240521i-07.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 21 May 2024 7:34 pm
Operator : pest16:jag
Sample : il6herb,42e,,pp 11459 L2/200
Misc : wg1925170, (Sig #1); ,,ical (Sig #2)
ALS Vial : 7 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 24 09:12:58 2024
Quant Method : I:\PCB\Pest16\2024\240521ical\Herb16_2024_05_21_ICAL.m
Quant Title : herb
QLast Update : Fri May 24 09:12:58 2024
Response via : Initial Calibration
Integrator: ChemStation

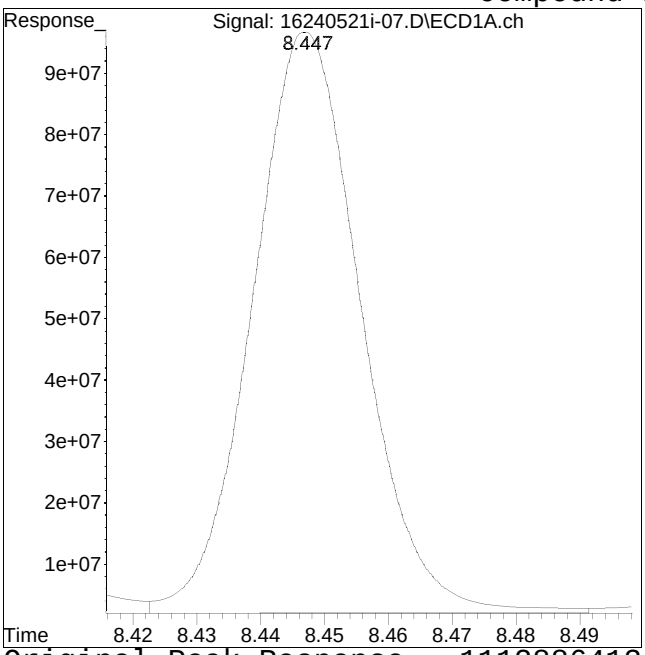
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

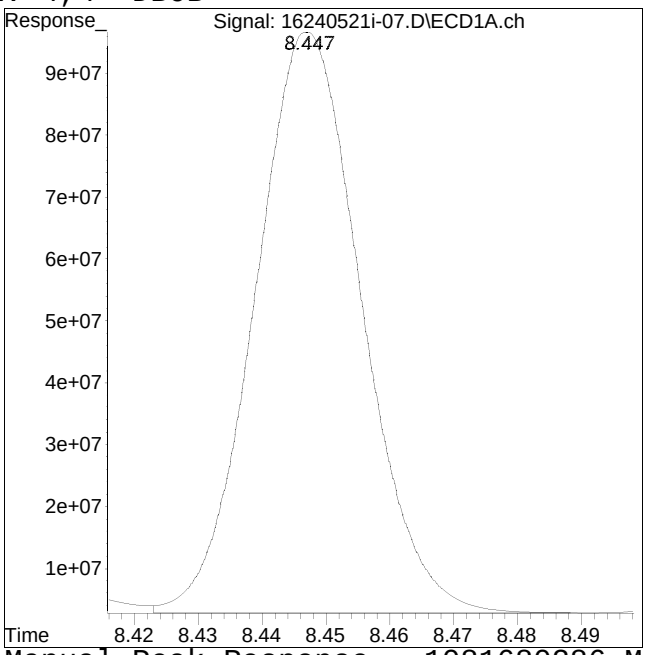


Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240521iQMethod : Herb16_2024_05_21_ICAL.m
Data File : 16240521i-07.D Operator : pest16:jag
Date Inj'd : 5/21/2024 7:34 pm Instrument : PEST16
Sample : il6herb,42e,,pp 11459 L2/2Quant Date : 5/24/2024 9:12 am

Compound #1: 4,4'-DBOB



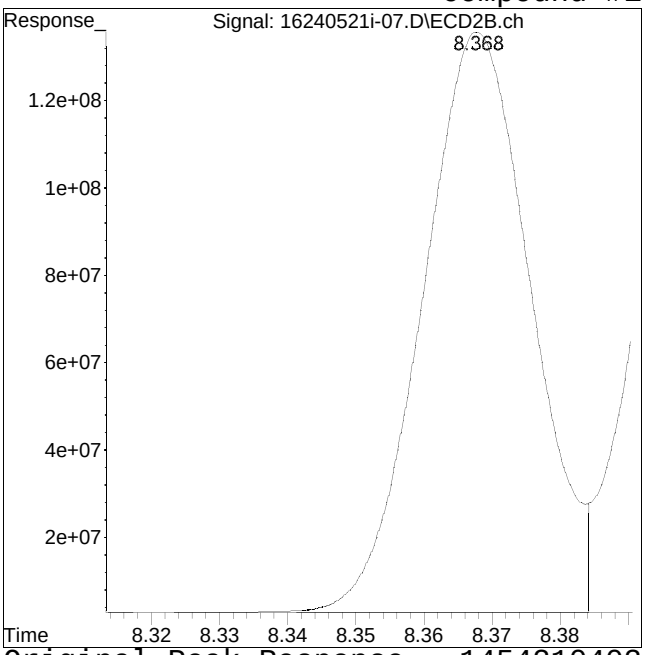


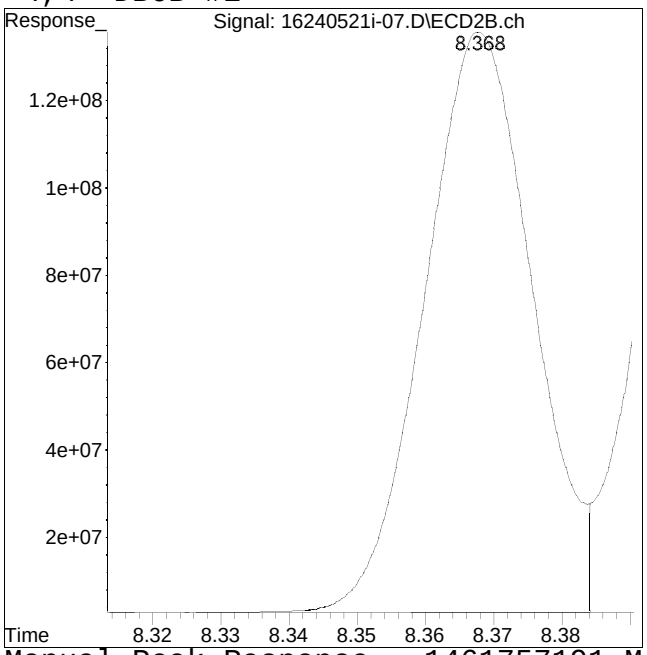
Original Peak Response = 1112886413 Manual Peak Response = 1081680286 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240521iQMethod : Herb16_2024_05_21_ICAL.m
Data File : 16240521i-07.D Operator : pest16:jag
Date Inj'd : 5/21/2024 7:34 pm Instrument : PEST16
Sample : il6herb,42e,,pp 11459 L2/2Quant Date : 5/24/2024 9:12 am

Compound #14: 4,4'-DBOB #2



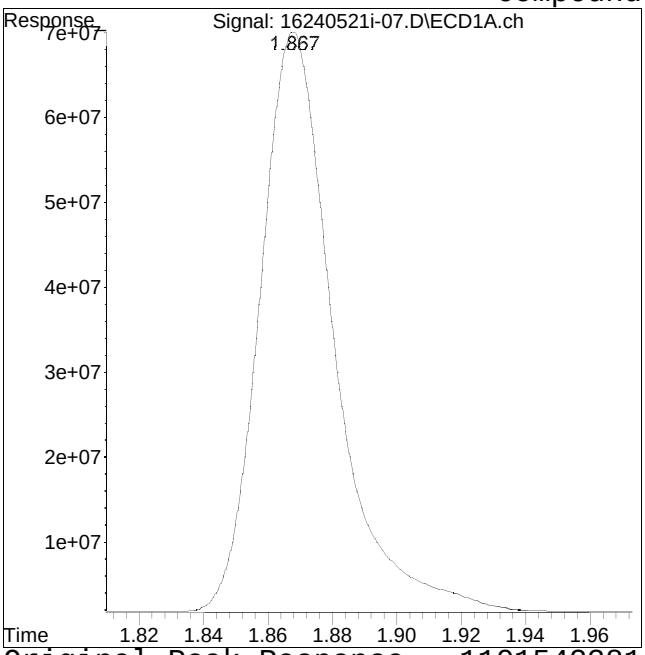


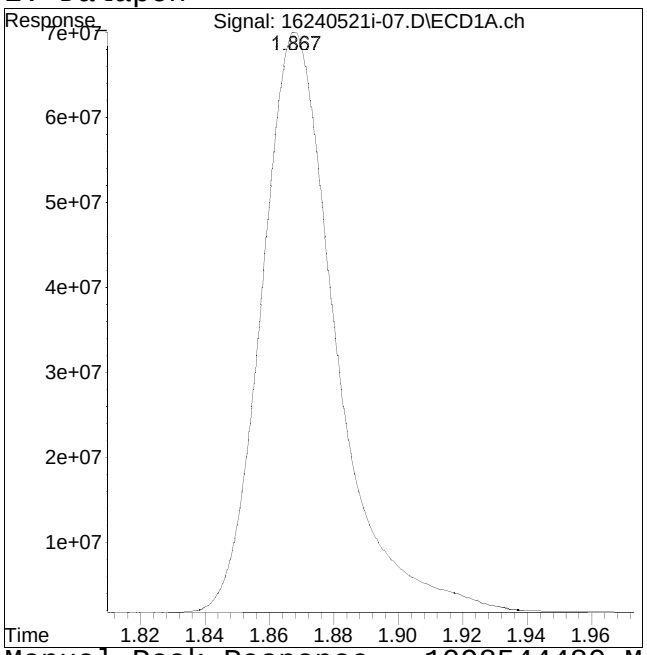
Original Peak Response = 1454210403 Manual Peak Response = 1461757191 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240521iQMethod : Herb16_2024_05_21_ICAL.m
Data File : 16240521i-07.D Operator : pest16:jag
Date Inj'd : 5/21/2024 7:34 pm Instrument : PEST16
Sample : il6herb,42e,,pp 11459 L2/2Quant Date : 5/24/2024 9:12 am

Compound #2: Dalapon



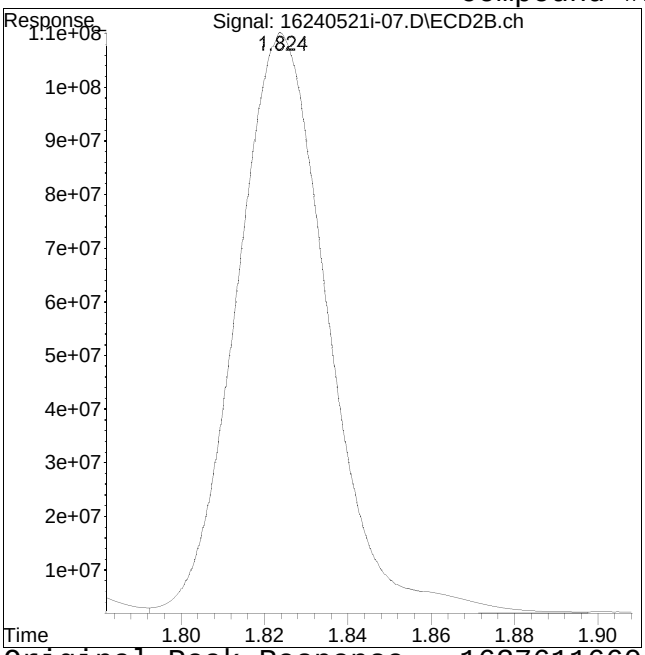


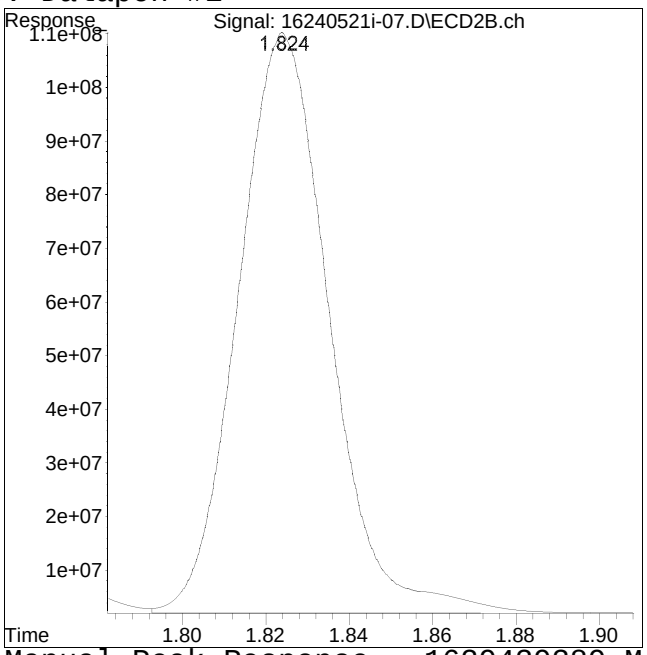
Original Peak Response = 1101542381 Manual Peak Response = 1098544480 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240521iQMethod : Herb16_2024_05_21_ICAL.m
Data File : 16240521i-07.D Operator : pest16:jag
Date Inj'd : 5/21/2024 7:34 pm Instrument : PEST16
Sample : il6herb,42e,,pp 11459 L2/2Quant Date : 5/24/2024 9:12 am

Compound #15: Dalapon #2



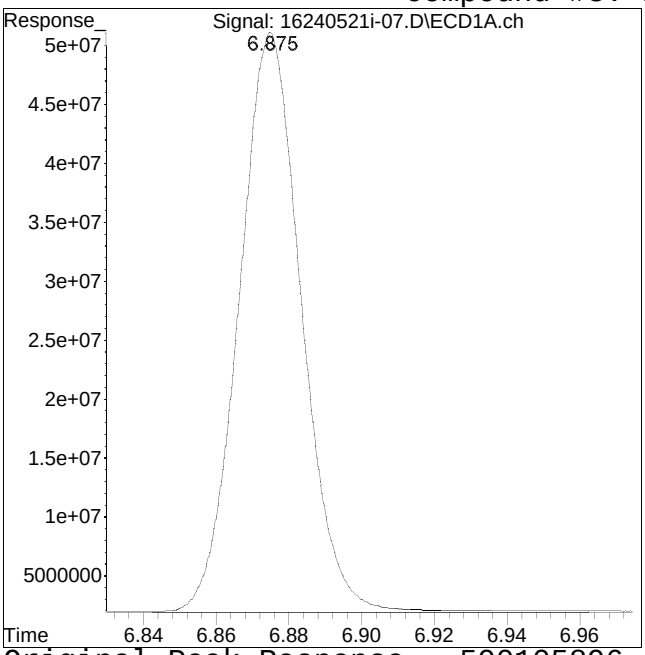


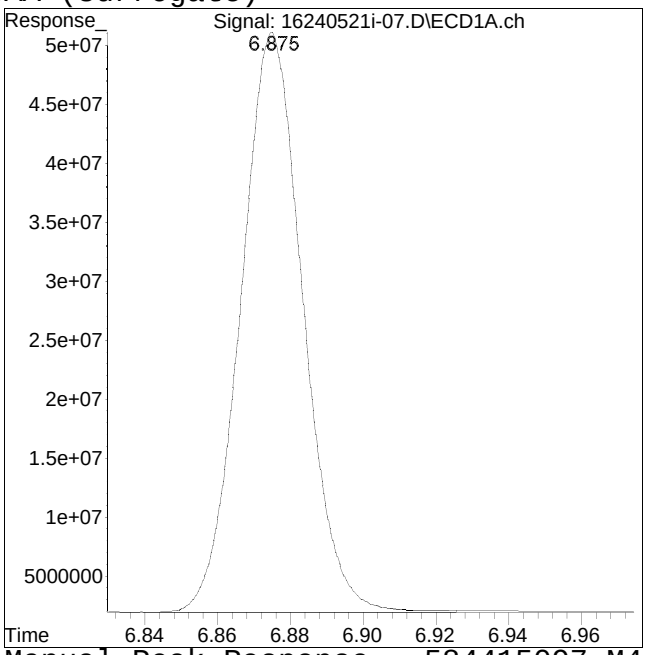
Original Peak Response = 1637611660 Manual Peak Response = 1629439389 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240521iQMethod : Herb16_2024_05_21_ICAL.m
Data File : 16240521i-07.D Operator : pest16:jag
Date Inj'd : 5/21/2024 7:34 pm Instrument : PEST16
Sample : il6herb,42e,,pp 11459 L2/2Quant Date : 5/24/2024 9:12 am

Compound #3: DCAA (surrogate)



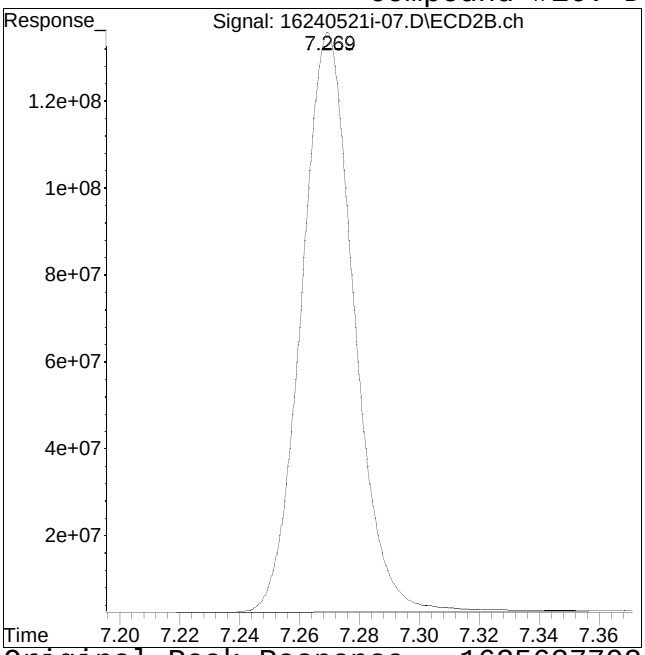


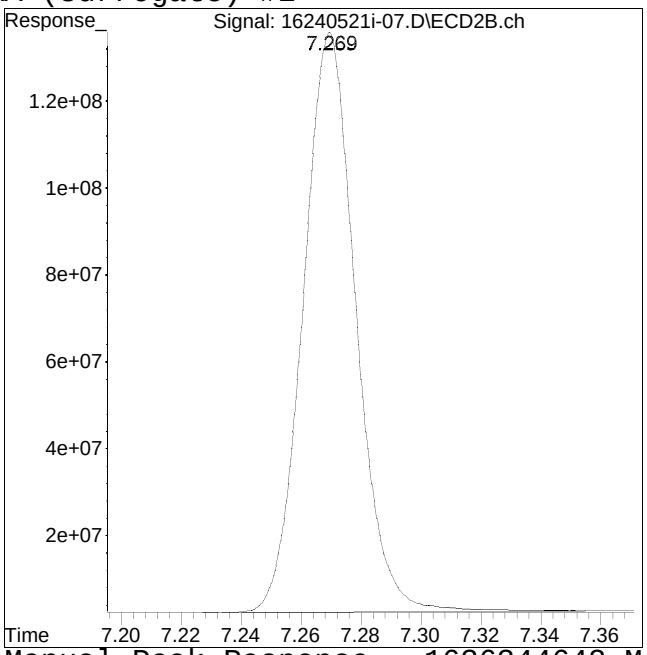
Original Peak Response = 590105896 Manual Peak Response = 584415097 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240521iQMethod : Herb16_2024_05_21_ICAL.m
Data File : 16240521i-07.D Operator : pest16:jag
Date Inj'd : 5/21/2024 7:34 pm Instrument : PEST16
Sample : il6herb,42e,,pp 11459 L2/2Quant Date : 5/24/2024 9:12 am

Compound #16: DCAA (surrogate) #2



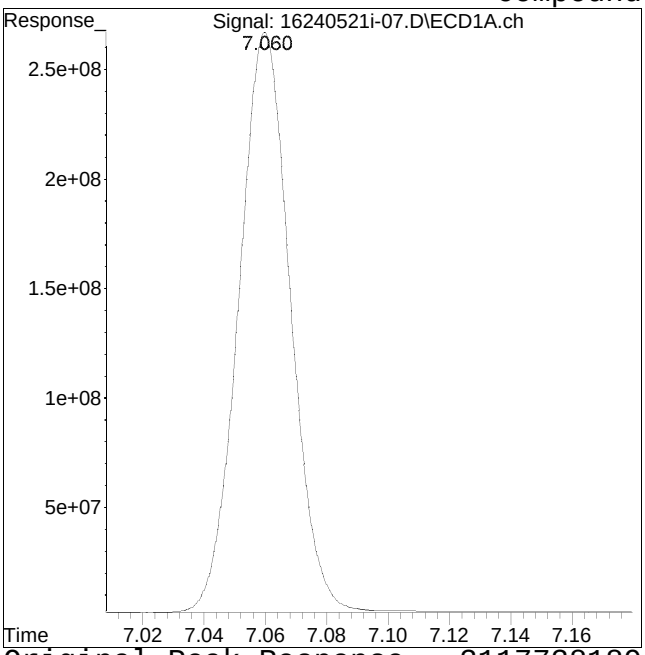


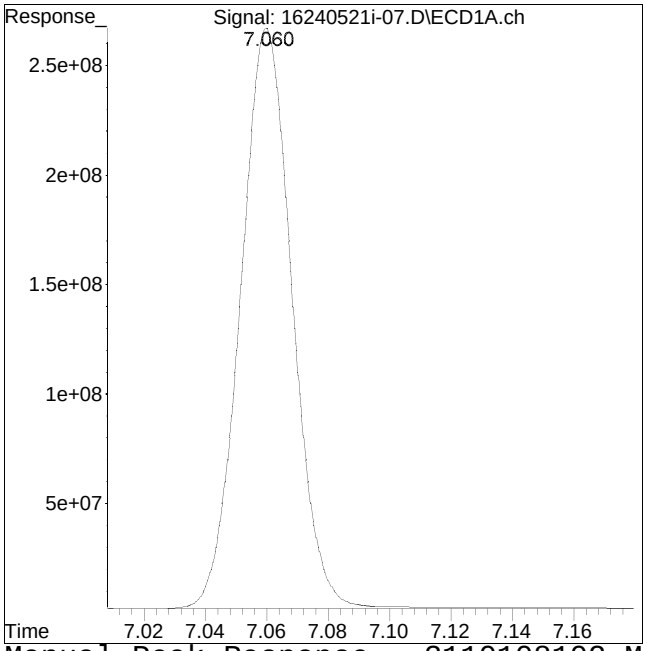
Original Peak Response = 1635627702 Manual Peak Response = 1636344642 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240521iQMethod : Herb16_2024_05_21_ICAL.m
Data File : 16240521i-07.D Operator : pest16:jag
Date Inj'd : 5/21/2024 7:34 pm Instrument : PEST16
Sample : il6herb,42e,,pp 11459 L2/2Quant Date : 5/24/2024 9:12 am

Compound #4: Dicamba



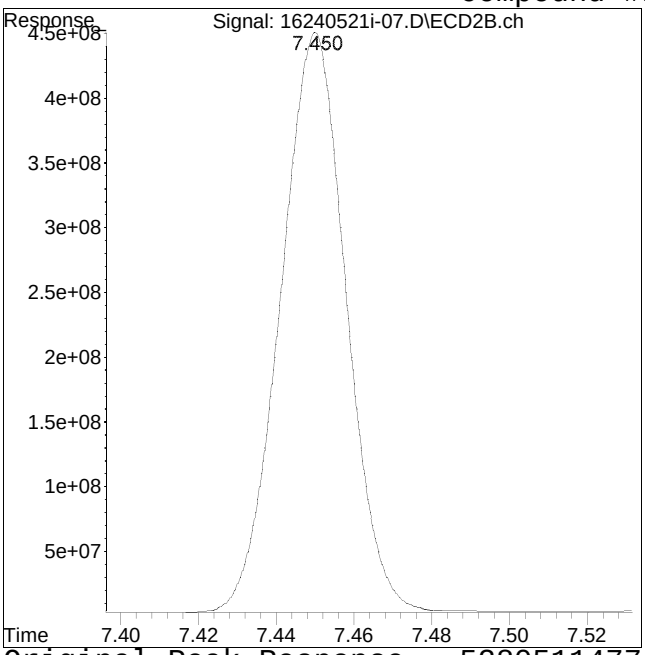


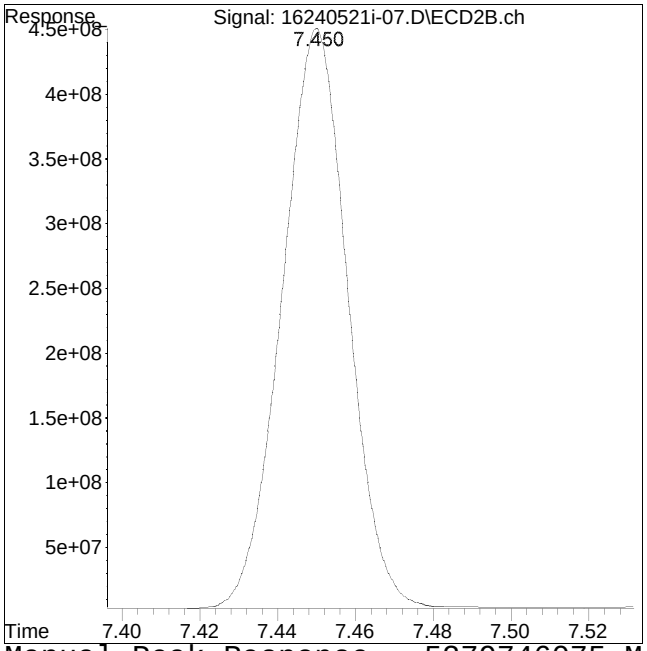
Original Peak Response = 3117738189 Manual Peak Response = 3110108102 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240521iQMethod : Herb16_2024_05_21_ICAL.m
Data File : 16240521i-07.D Operator : pest16:jag
Date Inj'd : 5/21/2024 7:34 pm Instrument : PEST16
Sample : il6herb,42e,,pp 11459 L2/2Quant Date : 5/24/2024 9:12 am

Compound #17: Dicamba #2



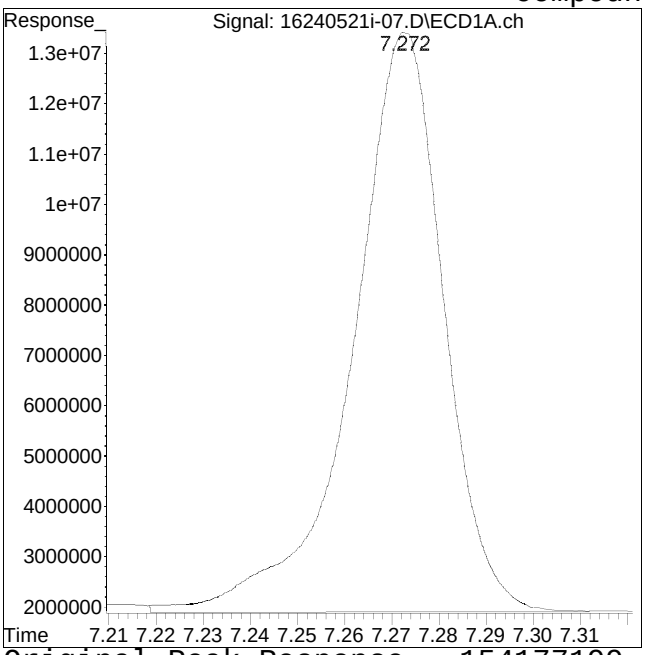


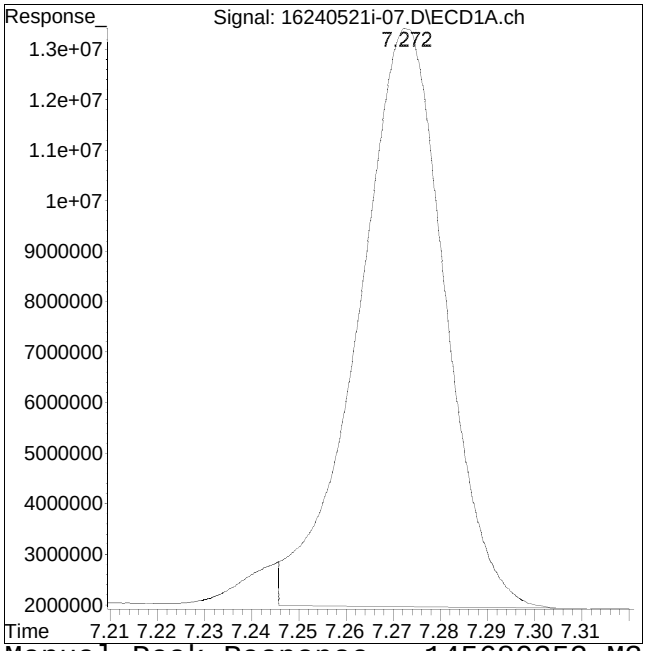
Original Peak Response = 5280511477 Manual Peak Response = 5279746075 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240521iQMethod : Herb16_2024_05_21_ICAL.m
Data File : 16240521i-07.D Operator : pest16:jag
Date Inj'd : 5/21/2024 7:34 pm Instrument : PEST16
Sample : il6herb,42e,,pp 11459 L2/2Quant Date : 5/24/2024 9:12 am

Compound #5: MCPP



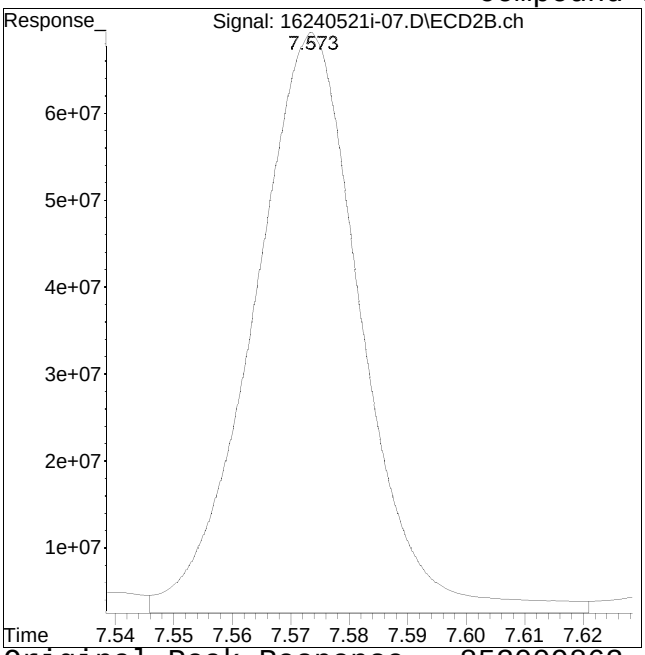


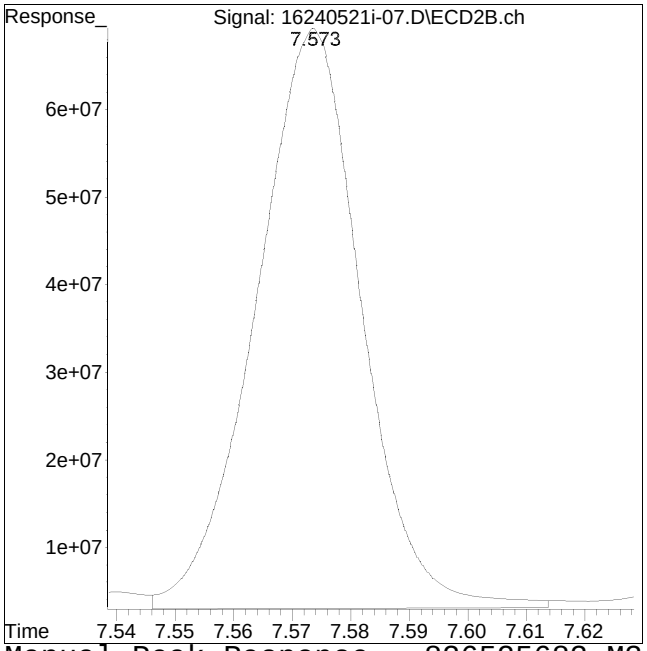
Original Peak Response = 154177199 Manual Peak Response = 145680353 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240521iQMethod : Herb16_2024_05_21_ICAL.m
Data File : 16240521i-07.D Operator : pest16:jag
Date Inj'd : 5/21/2024 7:34 pm Instrument : PEST16
Sample : il6herb,42e,,pp 11459 L2/2Quant Date : 5/24/2024 9:12 am

Compound #18: MCPP #2



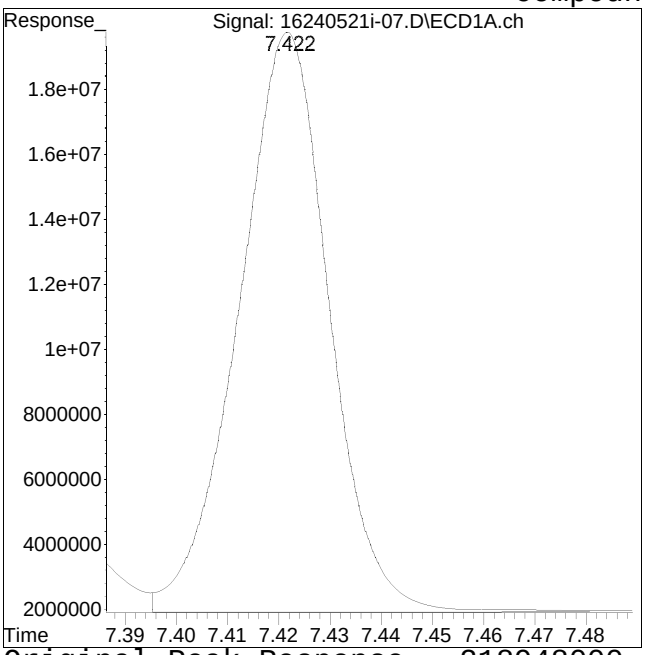


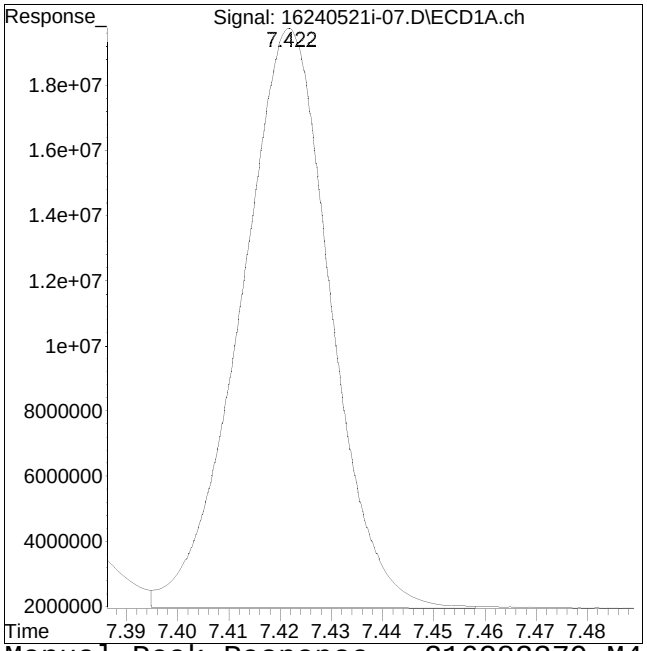
Original Peak Response = 853009863 Manual Peak Response = 826525683 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240521iQMethod : Herb16_2024_05_21_ICAL.m
Data File : 16240521i-07.D Operator : pest16:jag
Date Inj'd : 5/21/2024 7:34 pm Instrument : PEST16
Sample : il6herb,42e,,pp 11459 L2/2Quant Date : 5/24/2024 9:12 am

Compound #6: MCPA



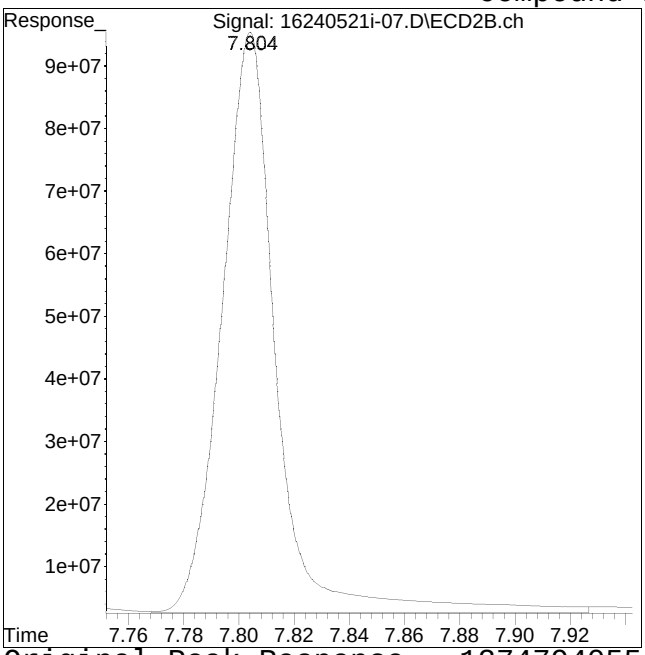


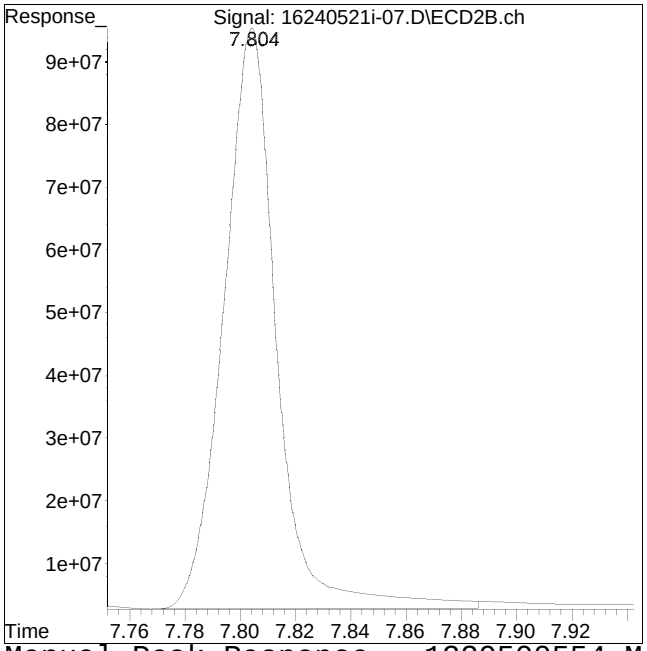
Original Peak Response = 218948000 Manual Peak Response = 216283379 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240521iQMethod : Herb16_2024_05_21_ICAL.m
Data File : 16240521i-07.D Operator : pest16:jag
Date Inj'd : 5/21/2024 7:34 pm Instrument : PEST16
Sample : il6herb,42e,,pp 11459 L2/2Quant Date : 5/24/2024 9:12 am

Compound #19: MCPA #2



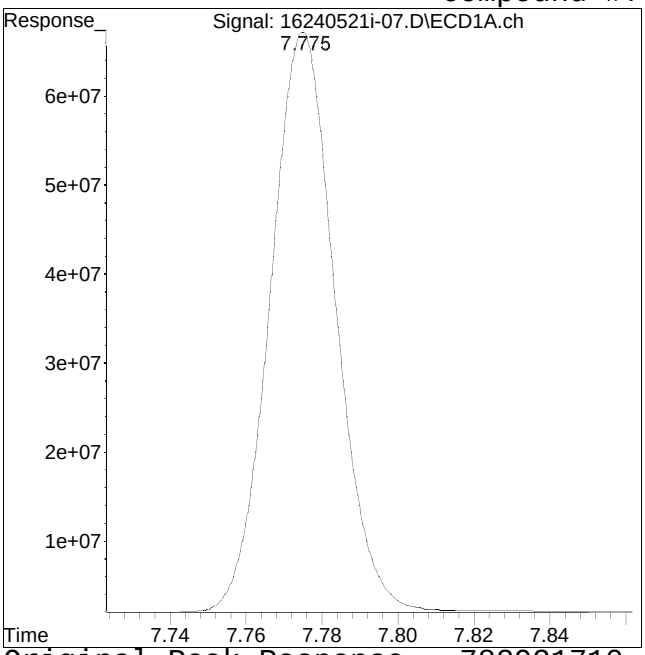


Original Peak Response = 1274794055 Manual Peak Response = 1229500554 M4
M4 = Poor automated baseline construction.

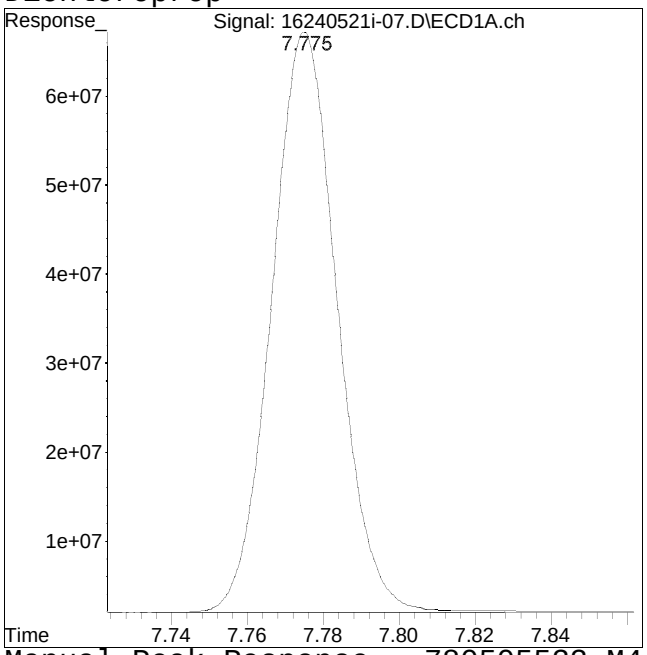
Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240521iQMethod : Herb16_2024_05_21_ICAL.m
Data File : 16240521i-07.D Operator : pest16:jag
Date Inj'd : 5/21/2024 7:34 pm Instrument : PEST16
Sample : il6herb,42e,,pp 11459 L2/2Quant Date : 5/24/2024 9:12 am

Compound #7: Dichloroprop



Original Peak Response = 782921710



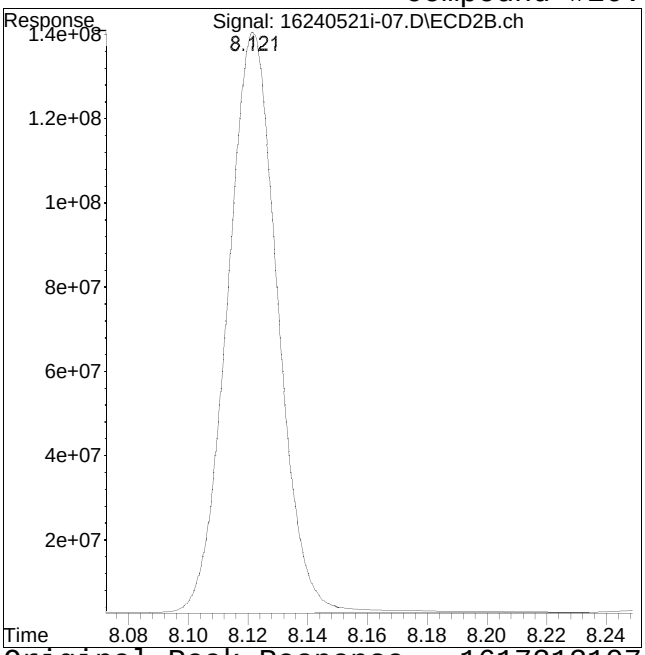
Manual Peak Response = 780505533 M4

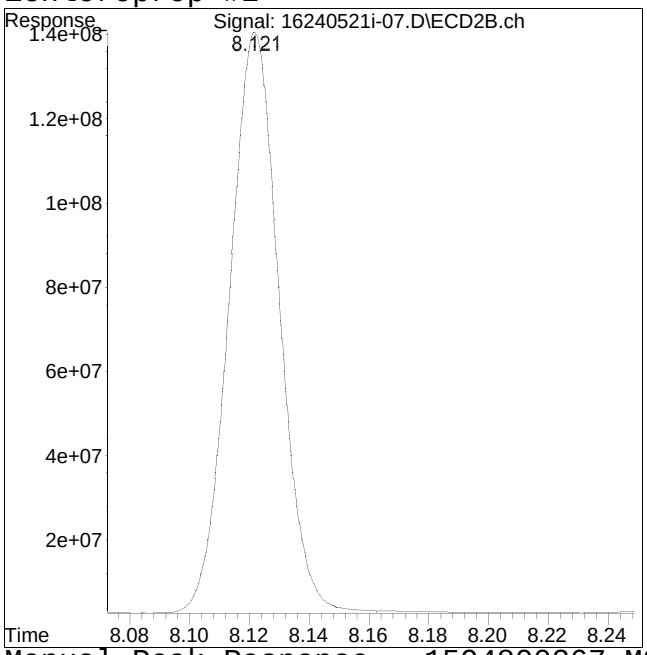
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240521iQMethod : Herb16_2024_05_21_ICAL.m
Data File : 16240521i-07.D Operator : pest16:jag
Date Inj'd : 5/21/2024 7:34 pm Instrument : PEST16
Sample : il6herb,42e,,pp 11459 L2/2Quant Date : 5/24/2024 9:12 am

Compound #20: Dichloroprop #2



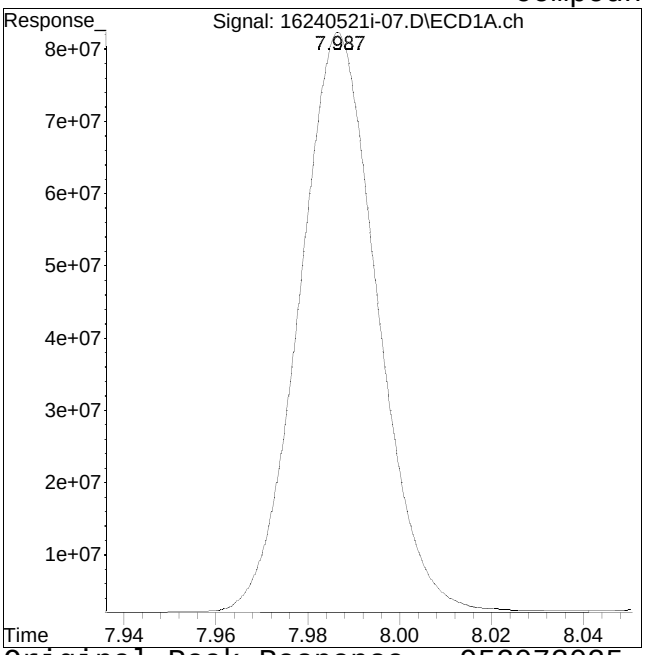


Original Peak Response = 1617313107 Manual Peak Response = 1594800267 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

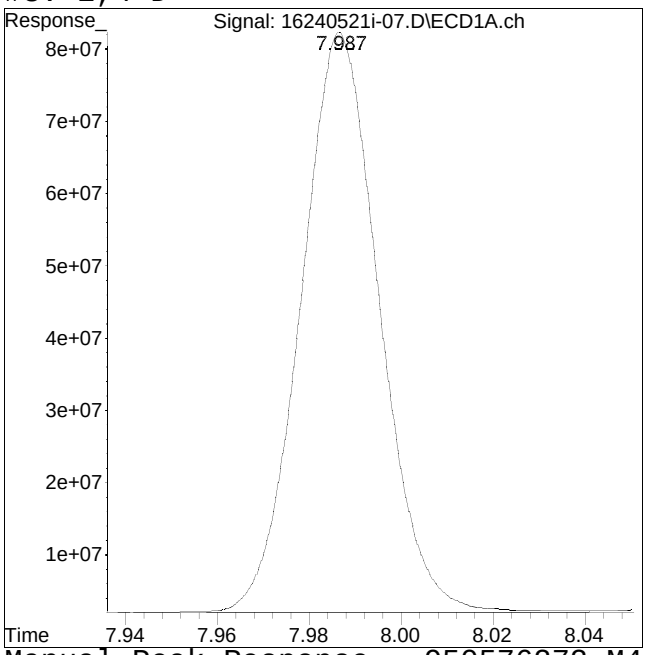
Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240521iQMethod : Herb16_2024_05_21_ICAL.m
Data File : 16240521i-07.D Operator : pest16:jag
Date Inj'd : 5/21/2024 7:34 pm Instrument : PEST16
Sample : il6herb,42e,,pp 11459 L2/2Quant Date : 5/24/2024 9:12 am

Compound #8: 2,4-D



Original Peak Response = 952073025



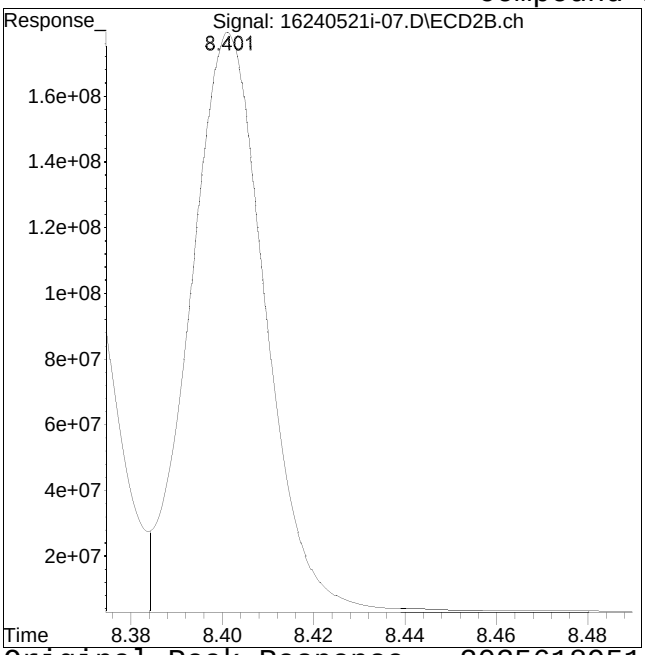
Manual Peak Response = 950576272 M4

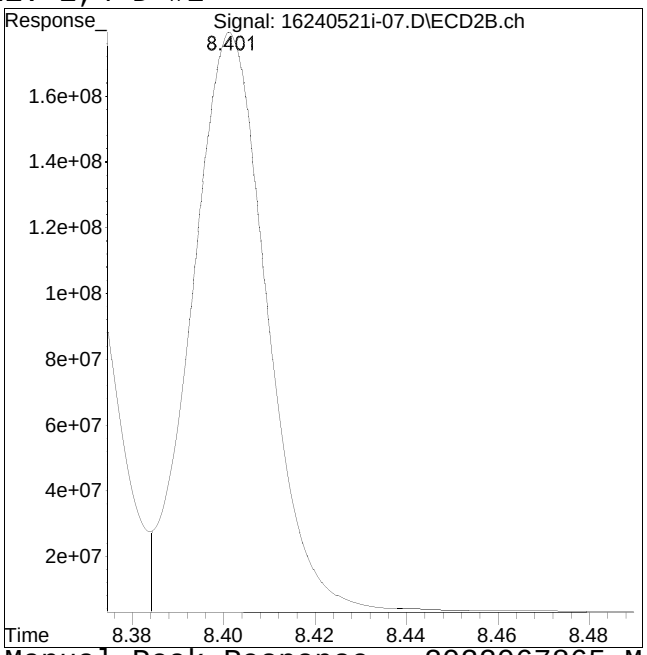
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240521iQMethod : Herb16_2024_05_21_ICAL.m
Data File : 16240521i-07.D Operator : pest16:jag
Date Inj'd : 5/21/2024 7:34 pm Instrument : PEST16
Sample : il6herb,42e,,pp 11459 L2/2Quant Date : 5/24/2024 9:12 am

Compound #21: 2,4-D #2



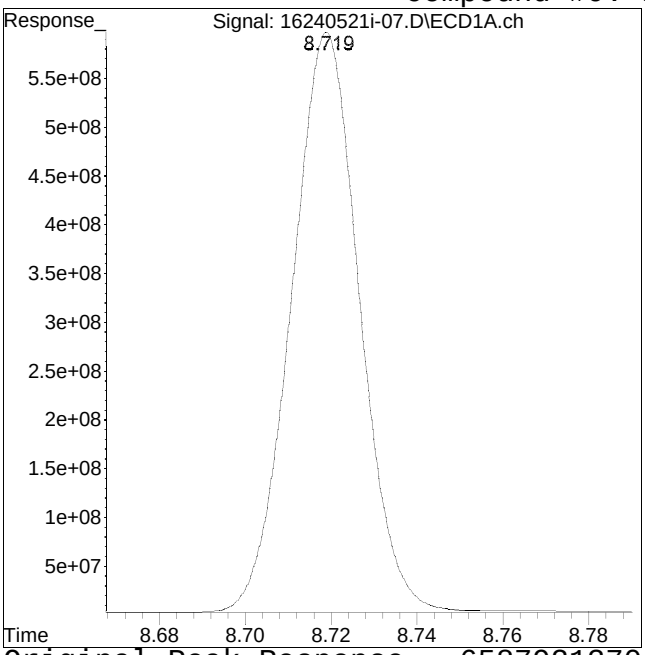


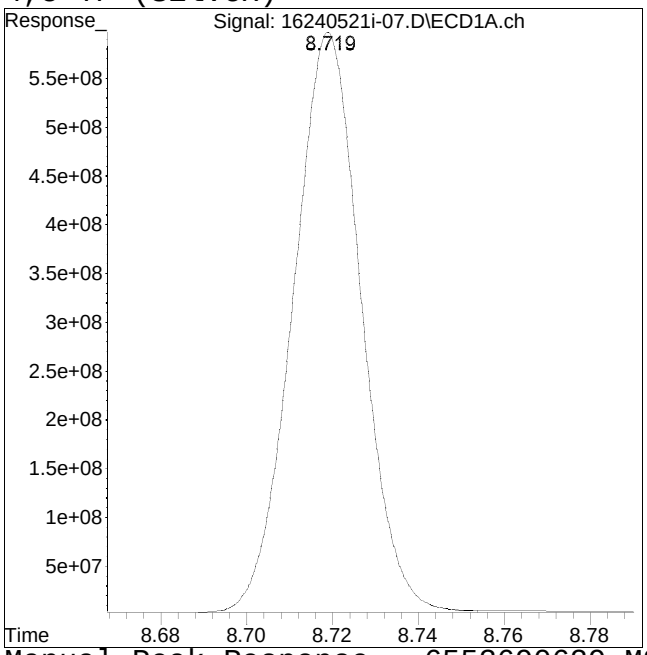
Original Peak Response = 2035618951 Manual Peak Response = 2022067865 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240521iQMethod : Herb16_2024_05_21_ICAL.m
Data File : 16240521i-07.D Operator : pest16:jag
Date Inj'd : 5/21/2024 7:34 pm Instrument : PEST16
Sample : il6herb,42e,,pp 11459 L2/2Quant Date : 5/24/2024 9:12 am

Compound #9: 2,4,5-TP (Silvex)



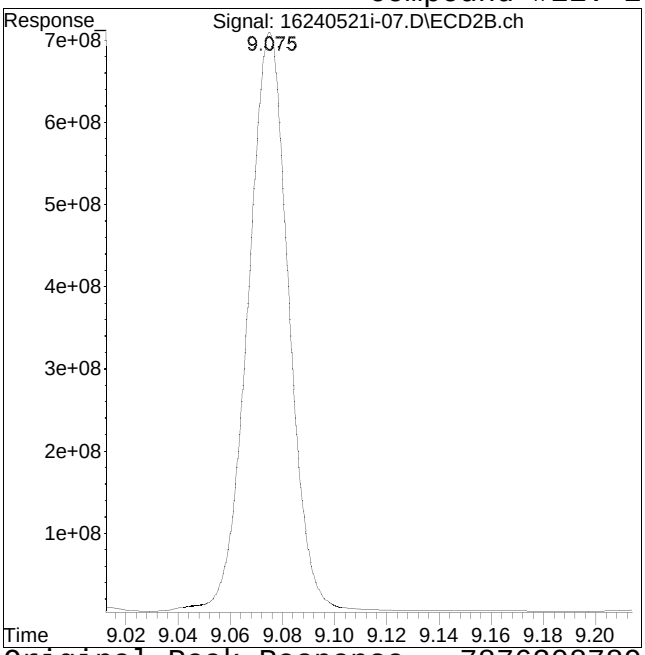


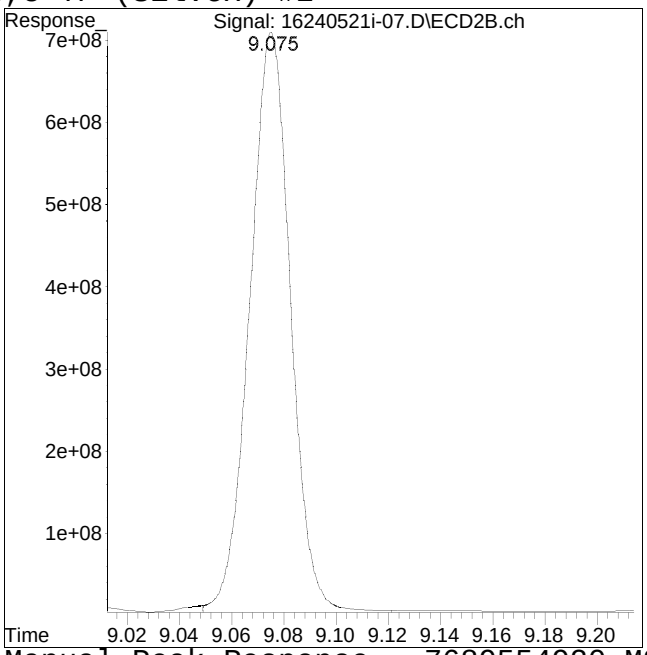
Original Peak Response = 6587921370 Manual Peak Response = 6553690629 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240521iQMethod : Herb16_2024_05_21_ICAL.m
Data File : 16240521i-07.D Operator : pest16:jag
Date Inj'd : 5/21/2024 7:34 pm Instrument : PEST16
Sample : il6herb,42e,,pp 11459 L2/2Quant Date : 5/24/2024 9:12 am

Compound #22: 2,4,5-TP (Silvex) #2



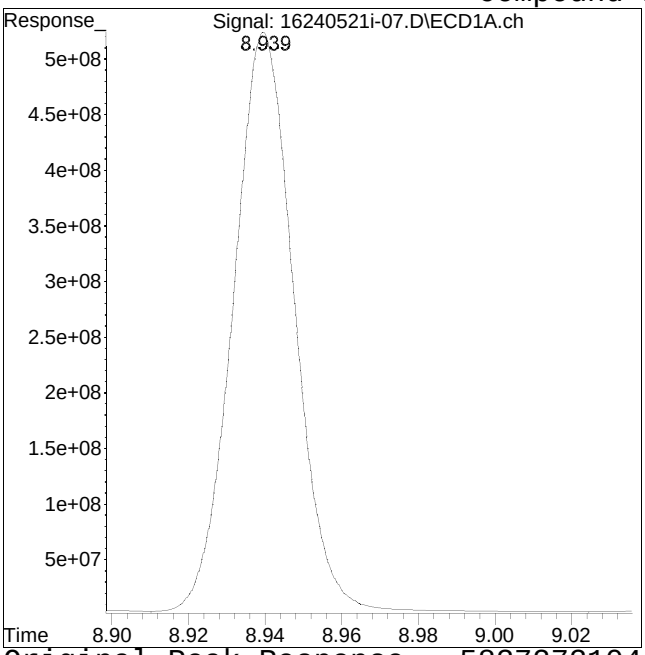


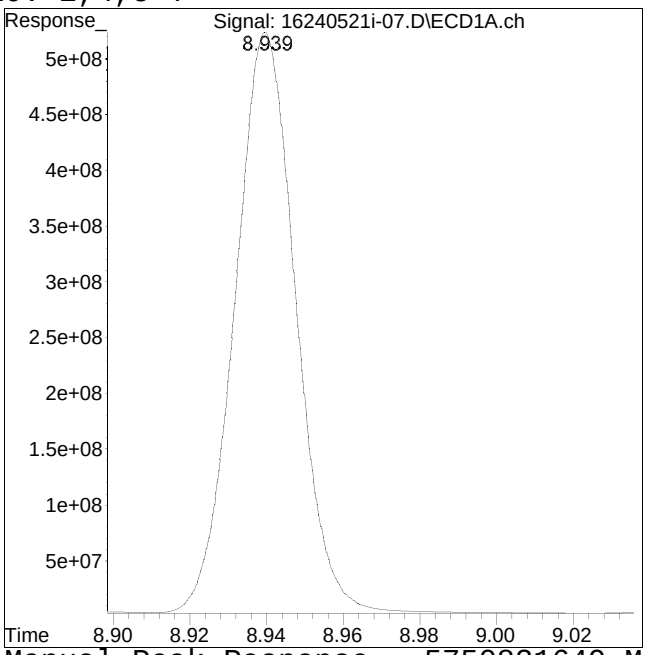
Original Peak Response = 7876308789 Manual Peak Response = 7689554920 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240521iQMethod : Herb16_2024_05_21_ICAL.m
Data File : 16240521i-07.D Operator : pest16:jag
Date Inj'd : 5/21/2024 7:34 pm Instrument : PEST16
Sample : il6herb,42e,,pp 11459 L2/2Quant Date : 5/24/2024 9:12 am

Compound #10: 2,4,5-T



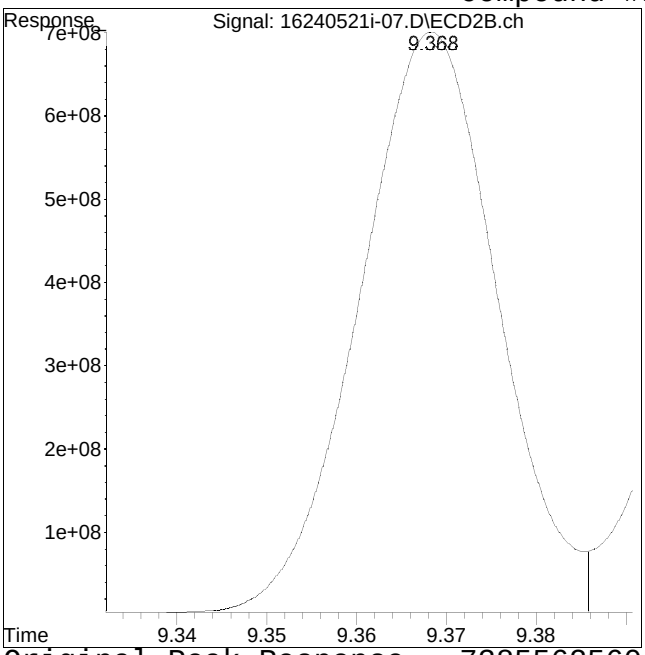


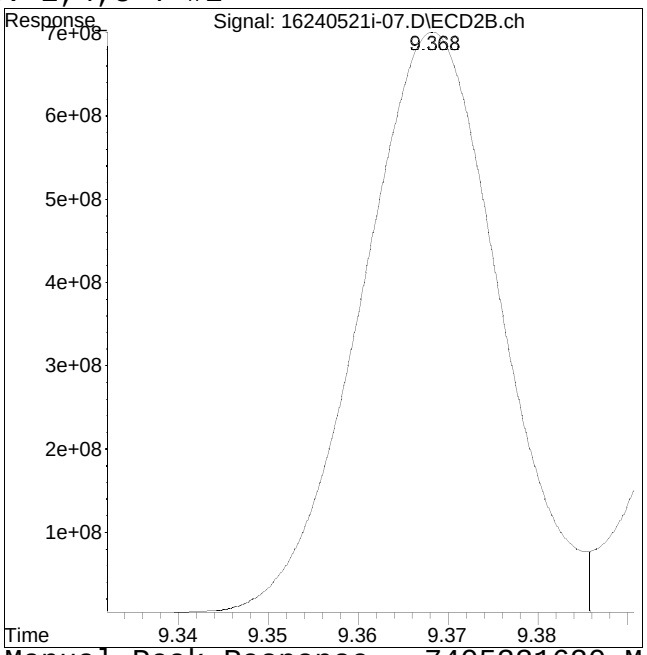
Original Peak Response = 5837273104 Manual Peak Response = 5750831649 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240521iQMethod : Herb16_2024_05_21_ICAL.m
Data File : 16240521i-07.D Operator : pest16:jag
Date Inj'd : 5/21/2024 7:34 pm Instrument : PEST16
Sample : il6herb,42e,,pp 11459 L2/2Quant Date : 5/24/2024 9:12 am

Compound #23: 2,4,5-T #2



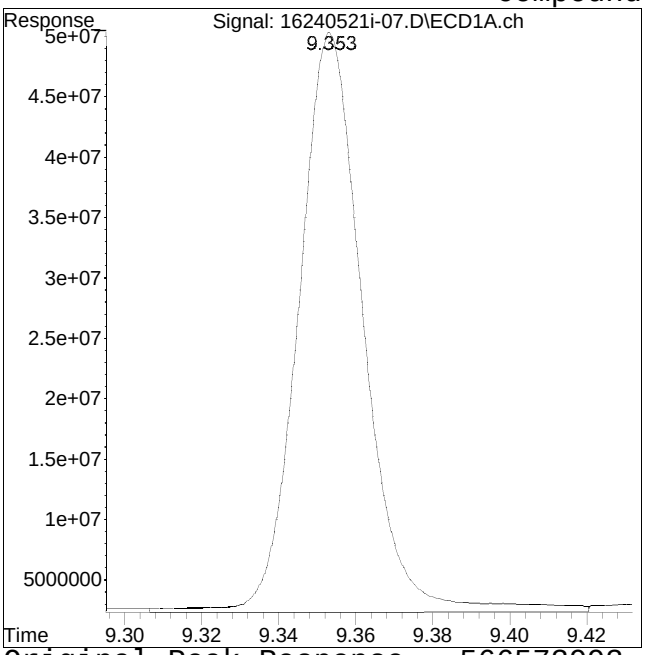


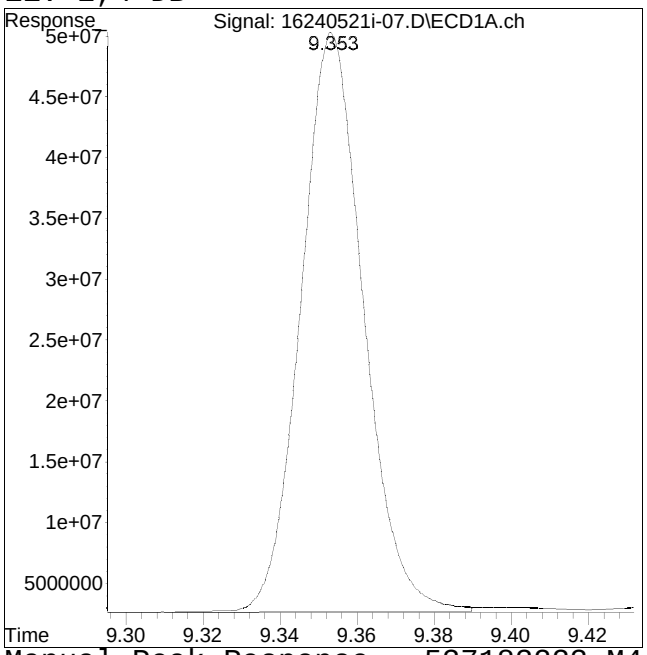
Original Peak Response = 7385562560 Manual Peak Response = 7405331620 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240521iQMethod : Herb16_2024_05_21_ICAL.m
Data File : 16240521i-07.D Operator : pest16:jag
Date Inj'd : 5/21/2024 7:34 pm Instrument : PEST16
Sample : il6herb,42e,,pp 11459 L2/2Quant Date : 5/24/2024 9:12 am

Compound #11: 2,4-DB



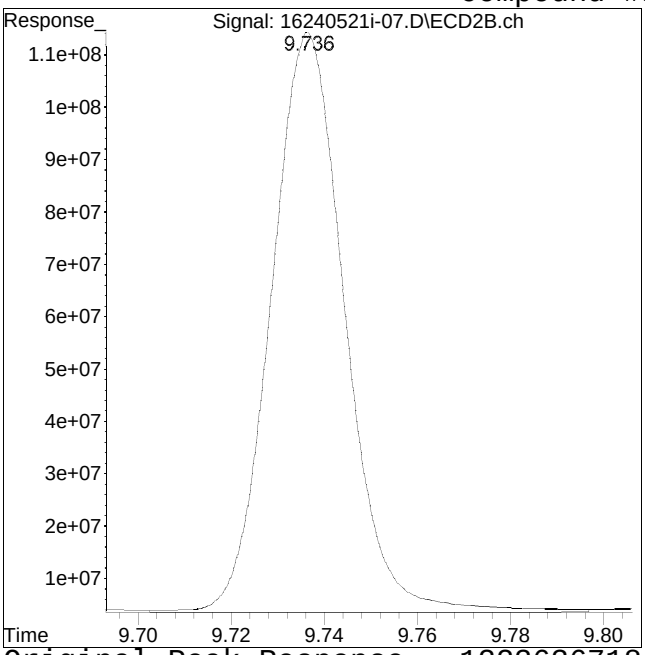


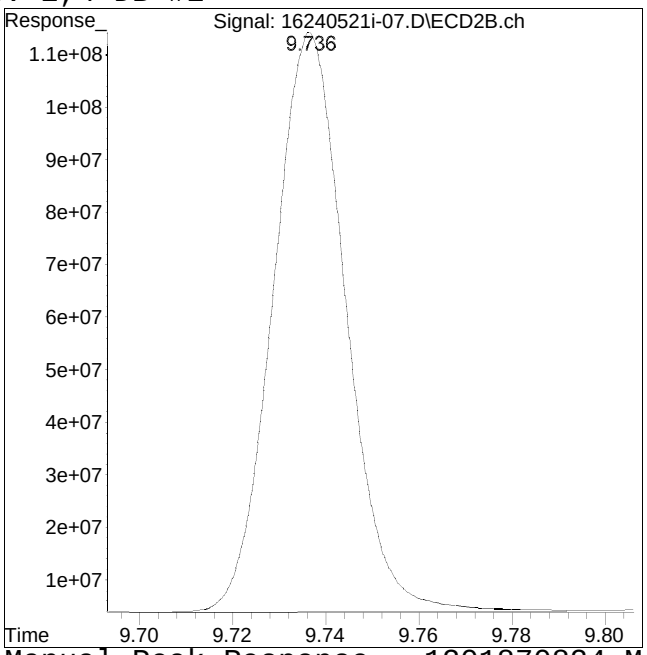
Original Peak Response = 566573993 Manual Peak Response = 537183223 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240521iQMethod : Herb16_2024_05_21_ICAL.m
Data File : 16240521i-07.D Operator : pest16:jag
Date Inj'd : 5/21/2024 7:34 pm Instrument : PEST16
Sample : il6herb,42e,,pp 11459 L2/2Quant Date : 5/24/2024 9:12 am

Compound #24: 2,4-DB #2



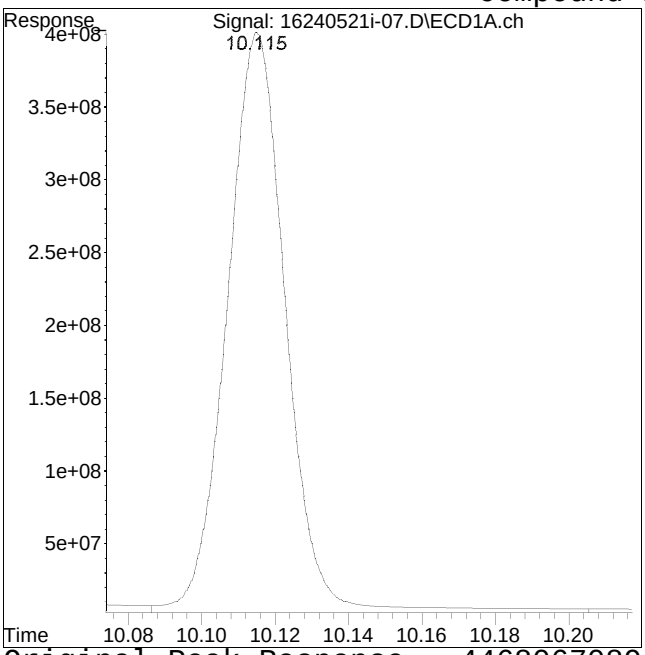


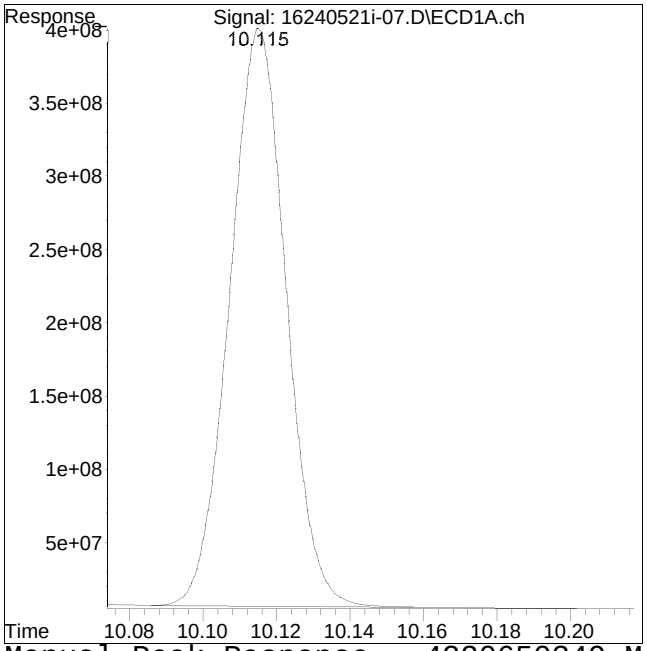
Original Peak Response = 1223636718 Manual Peak Response = 1201870824 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240521iQMethod : Herb16_2024_05_21_ICAL.m
Data File : 16240521i-07.D Operator : pest16:jag
Date Inj'd : 5/21/2024 7:34 pm Instrument : PEST16
Sample : il6herb,42e,,pp 11459 L2/2Quant Date : 5/24/2024 9:12 am

Compound #12: Dinoseb



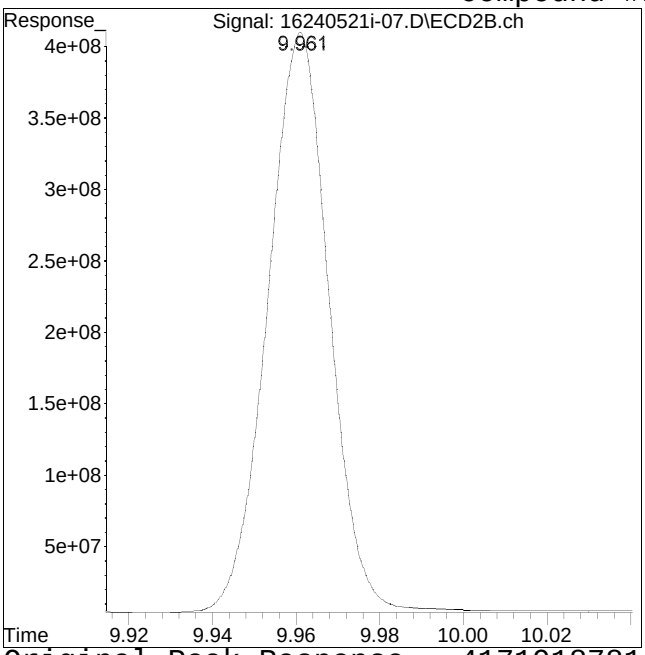


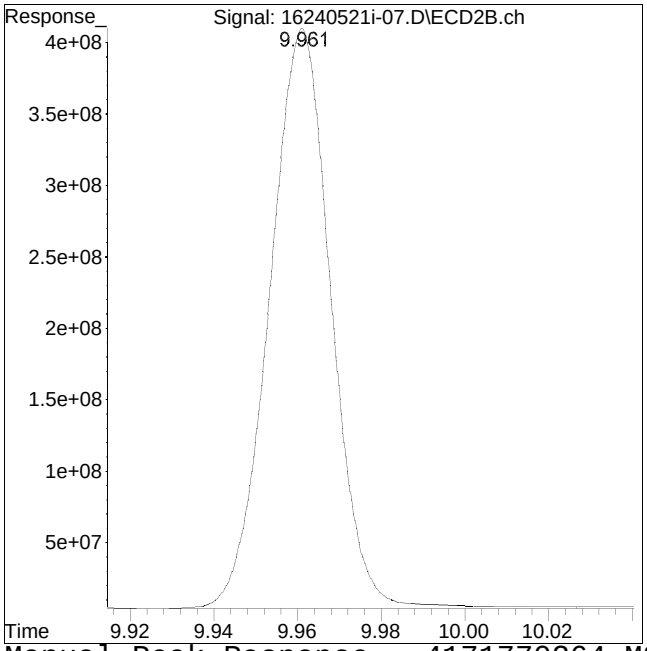
Original Peak Response = 4468067089 Manual Peak Response = 4220650349 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240521iQMethod : Herb16_2024_05_21_ICAL.m
Data File : 16240521i-07.D Operator : pest16:jag
Date Inj'd : 5/21/2024 7:34 pm Instrument : PEST16
Sample : il6herb,42e,,pp 11459 L2/2Quant Date : 5/24/2024 9:12 am

Compound #25: Dinoseb #2





Original Peak Response = 4171918781 Manual Peak Response = 4171770264 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Initial Calibration Verification

Evaluate Continuing Calibration Report

Data Path : I:\PCB\Pest16\2024\240521ical\
Data File : 16240521i-08.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On   : 21 May 2024   7:53 pm
Operator : pest16:jag
Sample   : cicv,42e,,pp 11458 L0.2/20 ICV
Misc   : wg1925170,
ALS Vial : 8   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 24 09:13:04 2024
Quant Method : I:\PCB\Pest16\2024\240521ical\Herb16_2024_05_21_ICAL.m
Quant Title : herb
QLast Update : Fri May 24 09:13:04 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 15%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
1	i	4,4'-DBOB	^	1.000	1.000	0.0	103	0.00
2	t	Dalapon	*	0.182	0.157	13.7	89	0.00
3	s	DCAA (surrogate)	*	0.188	0.183	2.7	95	0.00
4	t	Dicamba		0.393	0.356	9.4	94	0.00
5	t	MCPP	*	18.800	19.392	-3.1	100	0.00
6	t	MCPA	*	18.600	18.727	-0.7	98	0.00
7	t	Dichloroprop		0.111	0.115	-3.6	105	0.00
8	t	2,4-D		0.132	0.126	4.5	97	0.00
9	t	2,4,5-TP (Silvex)		0.783	0.717	8.4	95	0.00
10	t	2,4,5-T		0.683	0.645	5.6	98	0.00
11	t	2,4-DB		0.065	0.062	4.6	95	0.00
12	t	Dinoseb		0.507	0.479	5.5	98	0.00

Signal #2

1	i	4,4'-DBOB	^	1.000	1.000	0.0	100	0.00
2	t	Dalapon	*	0.182	0.183	-0.5	95	0.00
3	s	DCAA (surrogate)	*	0.188	0.208	-10.6	100	0.00
4	t	Dicamba		0.563	0.564	-0.2	97	0.00
5	t	MCPP	*	18.800	20.905	-11.2	100	0.00
6	t	MCPA	*	18.600	19.685	-5.8	97	0.00
7	t	Dichloroprop		0.174	0.194	-11.5	106	0.00
8	t	2,4-D		0.217	0.216	0.5	97	0.00
9	t	2,4,5-TP (Silvex)		0.773	0.755	2.3	94	0.00
10	t	2,4,5-T		0.696	0.694	0.3	97	0.00
11	t	2,4-DB		0.114	0.110	3.5	95	0.00
12	t	Dinoseb		0.421	0.434	-3.1	99	0.00

Evaluate Continuing Calibration Report - Not Founds

Evaluate Continuing Calibration Report

Data Path : I:\PCB\Pest16\2024\240521ical\
Data File : 16240521i-08.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On   : 21 May 2024   7:53 pm
Operator : pest16:jag
Sample   : cicv,42e,,pp 11458 L0.2/20 ICV
Misc   : wg1925170,
ALS Vial : 8   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 24 09:13:04 2024
Quant Method : I:\PCB\Pest16\2024\240521ical\Herb16_2024_05_21_ICAL.m
Quant Title : herb
QLast Update : Fri May 24 09:13:04 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 15%   Max. Rel. Area : 150%

Compound	AvgRF	CCRF	%Dev	Area% Dev(Min)

Signal #2

---

* Evaluation of CC level amount vs concentration.
(#) = Out of Range SPCC's out = 0 CCC's out = 0
(^) = ISTD area calculated using ICAL average

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest16\2024\240521ical\
Data File : 16240521i-08.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 21 May 2024 7:53 pm
Operator : pest16:jag
Sample : cicv,42e,,pp 11458 L0.2/20 ICV
Misc : wg1925170,
ALS Vial : 8 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 24 09:13:04 2024
Quant Method : I:\PCB\Pest16\2024\240521ical\Herb16_2024_05_21_ICAL.m
Quant Title : herb
QLast Update : Fri May 24 09:13:04 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

		Compound	RT#1	RT#2	Resp#1	Resp#2	mg/l	mg/l
		Internal Standards						
1)	i	4,4'-DBOB	8.447	8.367	1001.5E6	1351.7E6	0.250M4	0.250M4
		System Monitoring Compounds						
3)	s	DCAA (surrog	6.873	7.268	60875302	199.8E6	0.183M4	0.208M4
		Spiked Amount	0.500	Range	30 - 150	Recovery =	36.60%	41.60%
		Target Compounds						
2)	t	Dalapon	1.865	1.820	96660122	177.2E6	0.157M4	0.183M4
4)	t	Dicamba	7.059	7.448	268.1E6	573.4E6	0.170M4	0.188M4
5)	t	MCPP	7.267	7.567	16397427	122.2E6	19.392M4	20.905M4
6)	t	MCPA	7.415	7.797	25506210	187.7E6	18.727M4	19.685M4
7)	t	Dichloroprop	7.774	8.120	86653223	196.7E6	0.195M3	0.209M4
8)	t	2,4-D	7.986	8.400	94884496	219.2E6	0.179M4	0.187M4
9)	t	2,4,5-TP (Si	8.718	9.074	545.8E6	775.7E6	0.174M3	0.185M4
10)	t	2,4,5-T	8.940	9.367	490.9E6	712.6E6	0.179M4	0.189M4
11)	t	2,4-DB	9.355	9.737	47428225	114.7E6	0.182M4	0.186M4
12)	t	Dinoseb	10.115	9.960	364.9E6	445.4E6	0.180M4	0.196M4

SemiQuant Compounds - Not Calibrated on this Instrument

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest16\2024\240521ical\
Data File : 16240521i-08.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 21 May 2024 7:53 pm
Operator : pest16:jag
Sample : cicv,42e,,pp 11458 L0.2/20 ICV
Misc : wg1925170,
ALS Vial : 8 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 24 09:13:04 2024
Quant Method : I:\PCB\Pest16\2024\240521ical\Herb16_2024_05_21_ICAL.m
Quant Title : herb
QLast Update : Fri May 24 09:13:04 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	mg/l	mg/l

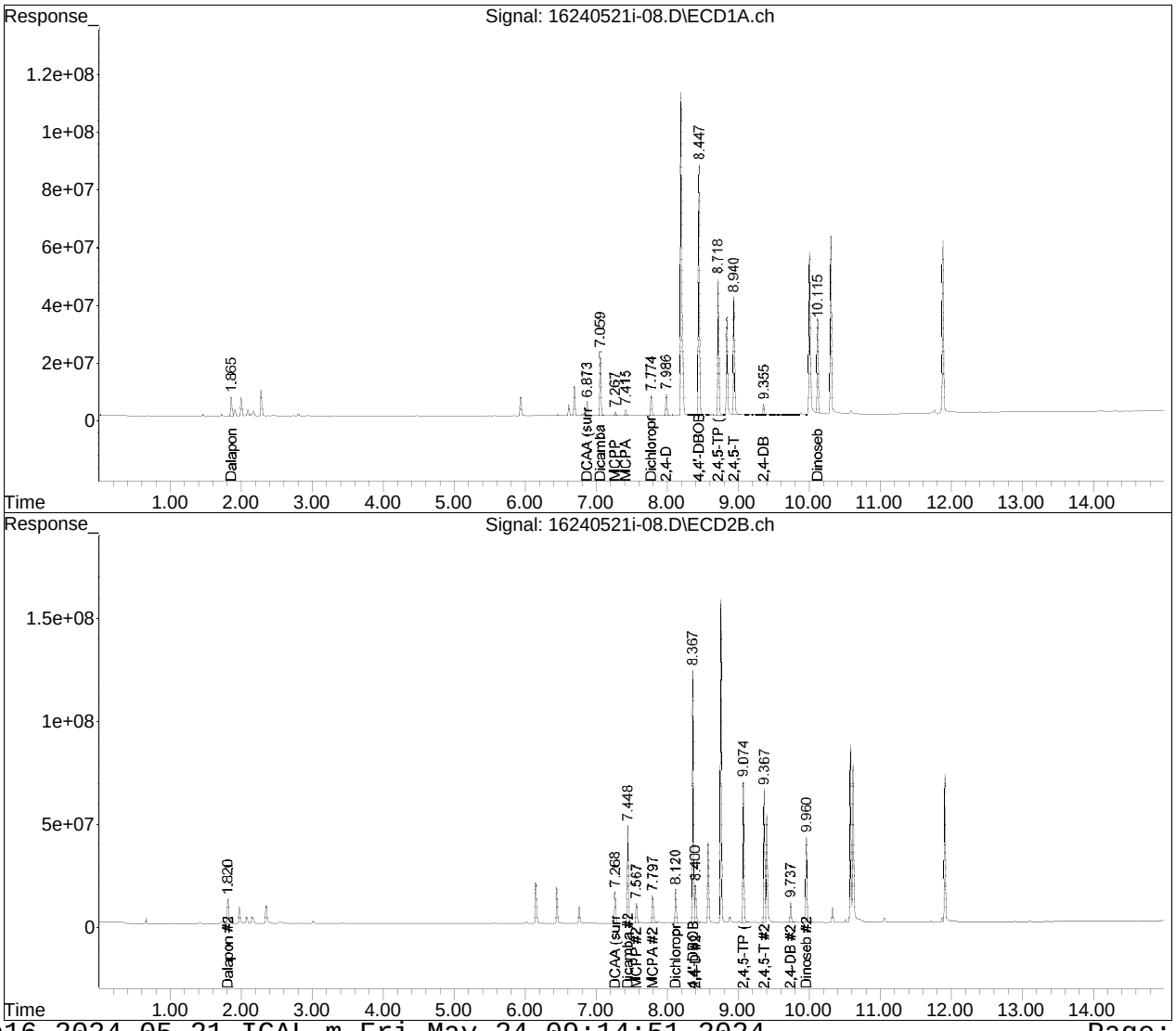
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PCB\Pest16\2024\240521ical\
Data File : 16240521i-08.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 21 May 2024 7:53 pm
Operator : pest16:jag
Sample : cicv,42e,,pp 11458 L0.2/20 ICV
Misc : wg1925170,
ALS Vial : 8 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 24 09:13:04 2024
Quant Method : I:\PCB\Pest16\2024\240521ical\Herb16_2024_05_21_ICAL.m
Quant Title : herb
QLast Update : Fri May 24 09:13:04 2024
Response via : Initial Calibration
Integrator: ChemStation

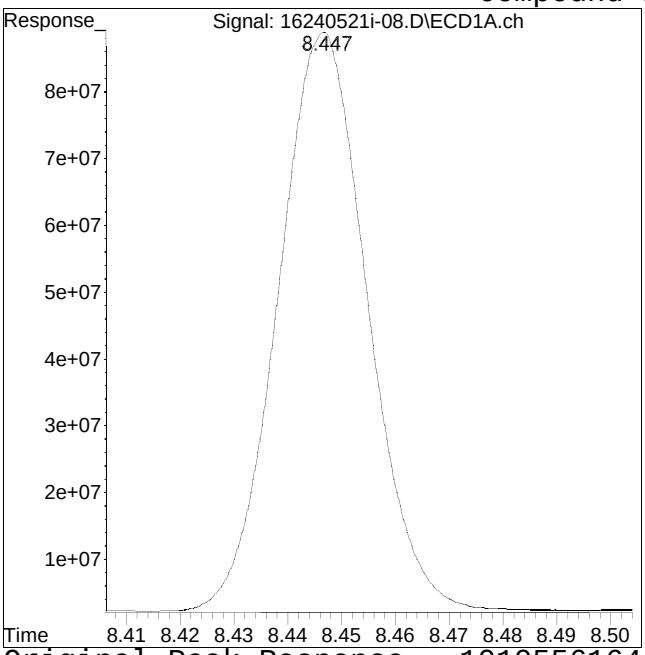
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

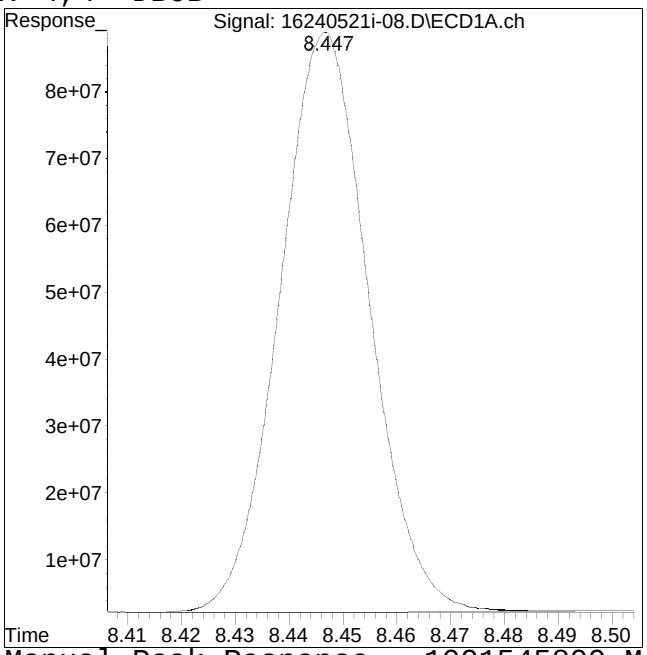


Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240521iQMethod : Herb16_2024_05_21_ICAL.m
Data File : 16240521i-08.D Operator : pest16:jag
Date Inj'd : 5/21/2024 7:53 pm Instrument : PEST16
Sample : cicv,42e,,pp 11458 L0.2/20Quant Date : 5/24/2024 9:13 am

Compound #1: 4,4'-DBOB



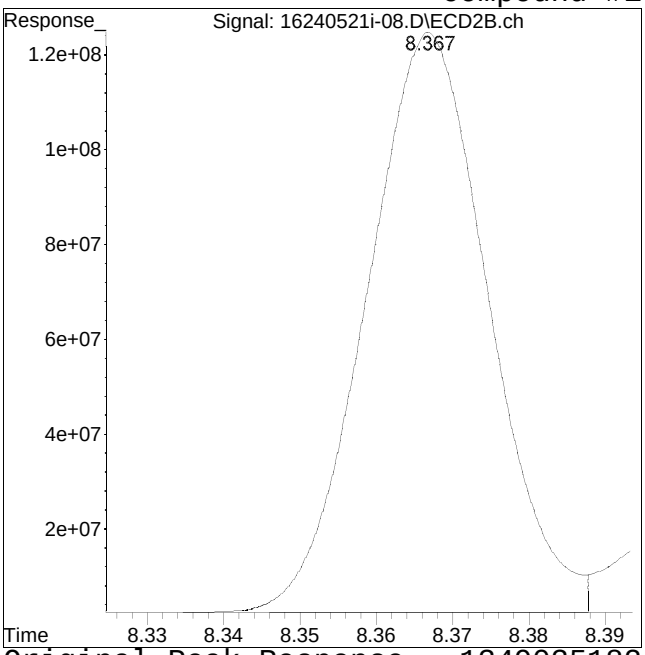


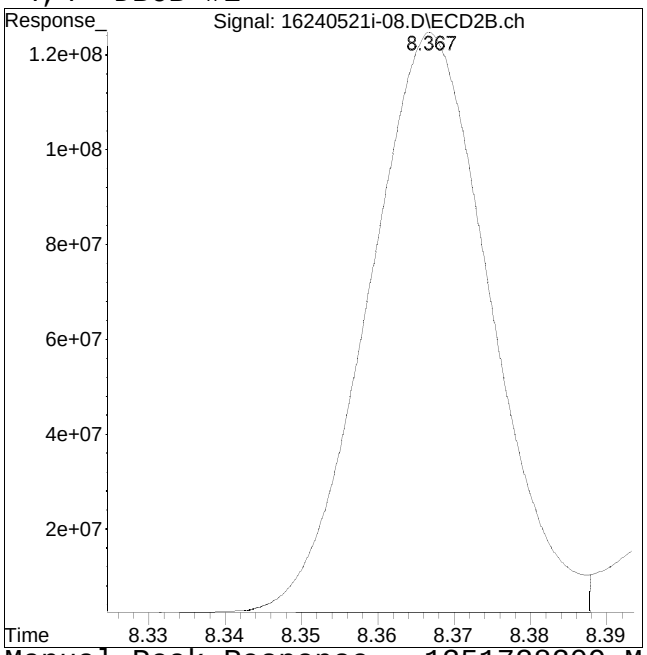
Original Peak Response = 1010556164 Manual Peak Response = 1001545809 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240521iQMethod : Herb16_2024_05_21_ICAL.m
Data File : 16240521i-08.D Operator : pest16:jag
Date Inj'd : 5/21/2024 7:53 pm Instrument : PEST16
Sample : cicv,42e,,pp 11458 L0.2/20Quant Date : 5/24/2024 9:13 am

Compound #14: 4,4'-DBOB #2



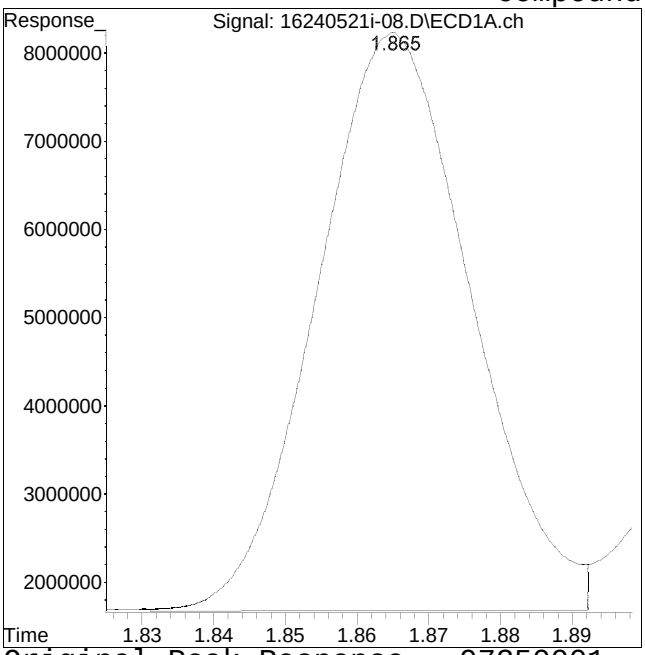


Original Peak Response = 1349035182 Manual Peak Response = 1351728209 M4
M4 = Poor automated baseline construction.

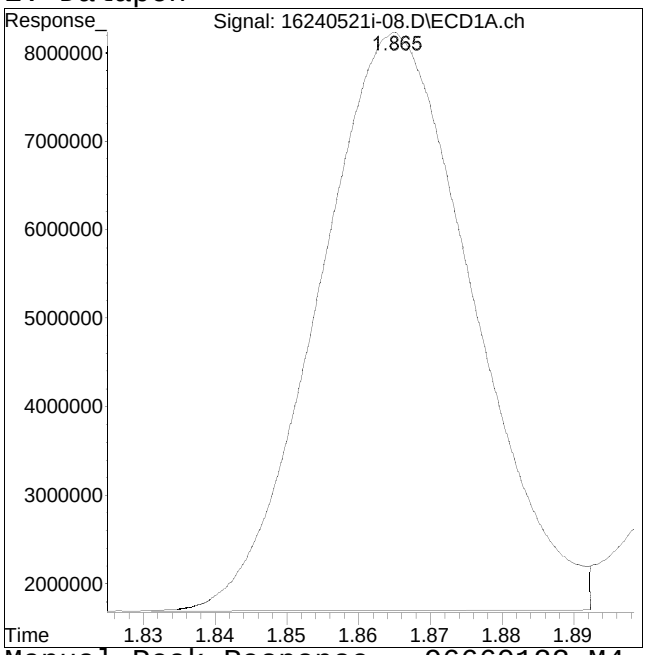
Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240521iQMethod : Herb16_2024_05_21_ICAL.m
Data File : 16240521i-08.D Operator : pest16:jag
Date Inj'd : 5/21/2024 7:53 pm Instrument : PEST16
Sample : cicv,42e,,pp 11458 L0.2/20Quant Date : 5/24/2024 9:13 am

Compound #2: Dalapon



Original Peak Response = 97350001



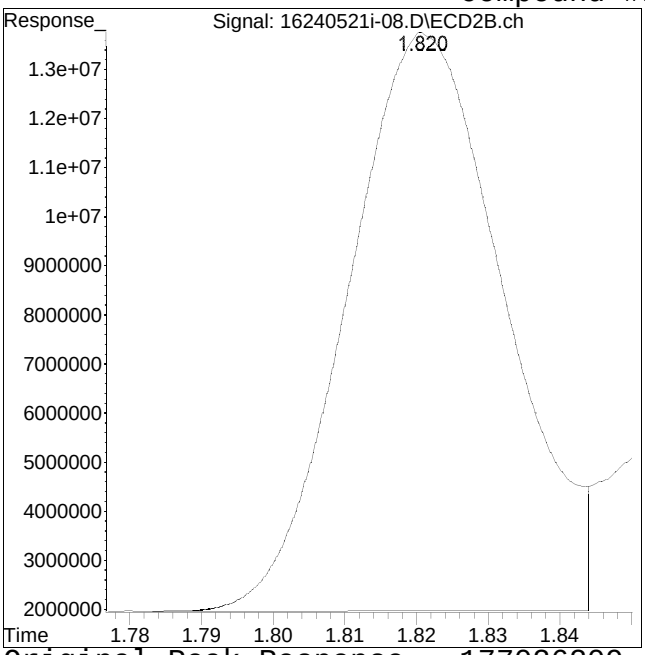
Manual Peak Response = 96660122 M4

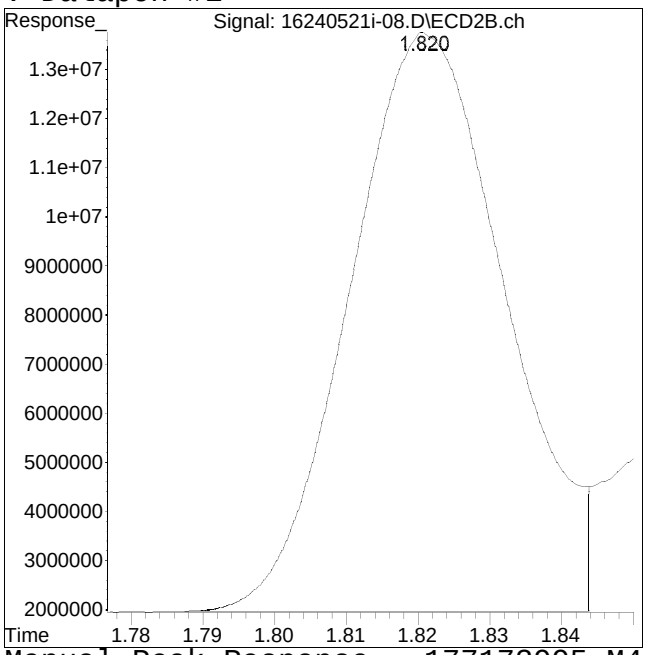
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240521iQMethod : Herb16_2024_05_21_ICAL.m
Data File : 16240521i-08.D Operator : pest16:jag
Date Inj'd : 5/21/2024 7:53 pm Instrument : PEST16
Sample : cicv,42e,,pp 11458 L0.2/20Quant Date : 5/24/2024 9:13 am

Compound #15: Dalapon #2



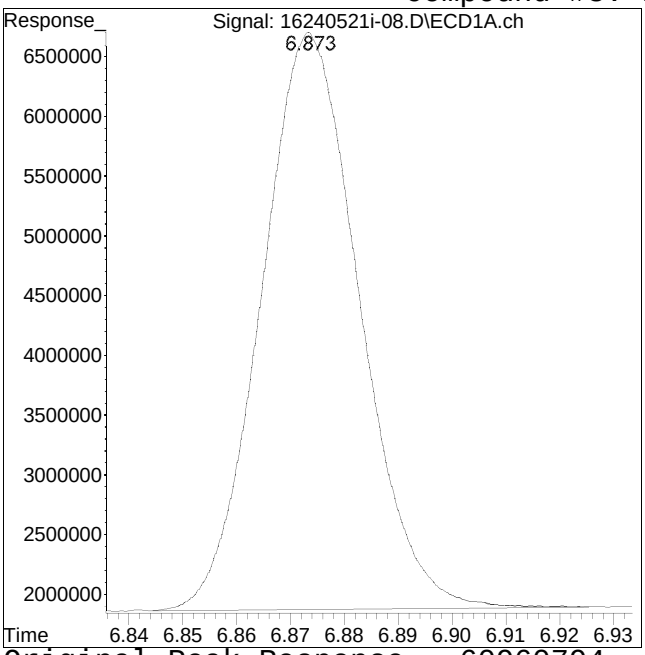


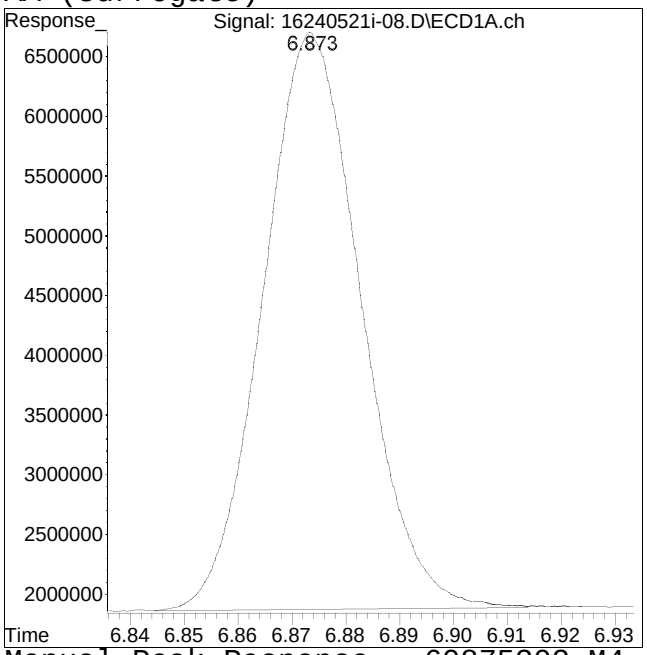
Original Peak Response = 177026209 Manual Peak Response = 177173995 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240521iQMethod : Herb16_2024_05_21_ICAL.m
Data File : 16240521i-08.D Operator : pest16:jag
Date Inj'd : 5/21/2024 7:53 pm Instrument : PEST16
Sample : cicv,42e,,pp 11458 L0.2/20Quant Date : 5/24/2024 9:13 am

Compound #3: DCAA (surrogate)



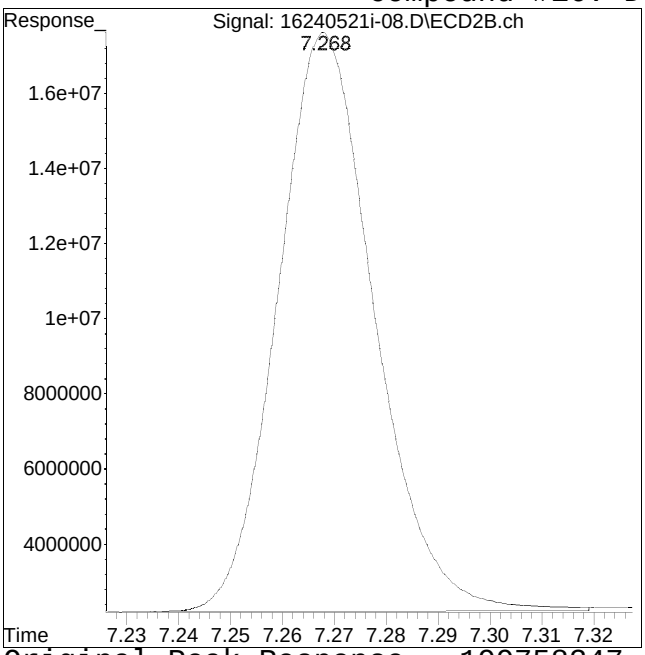


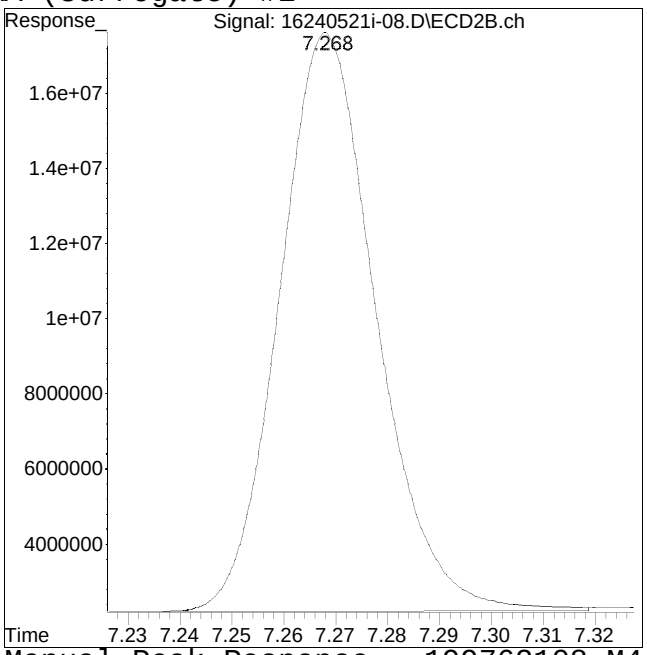
Original Peak Response = 60960794 Manual Peak Response = 60875302 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240521iQMethod : Herb16_2024_05_21_ICAL.m
Data File : 16240521i-08.D Operator : pest16:jag
Date Inj'd : 5/21/2024 7:53 pm Instrument : PEST16
Sample : cicv,42e,,pp 11458 L0.2/20Quant Date : 5/24/2024 9:13 am

Compound #16: DCAA (surrogate) #2



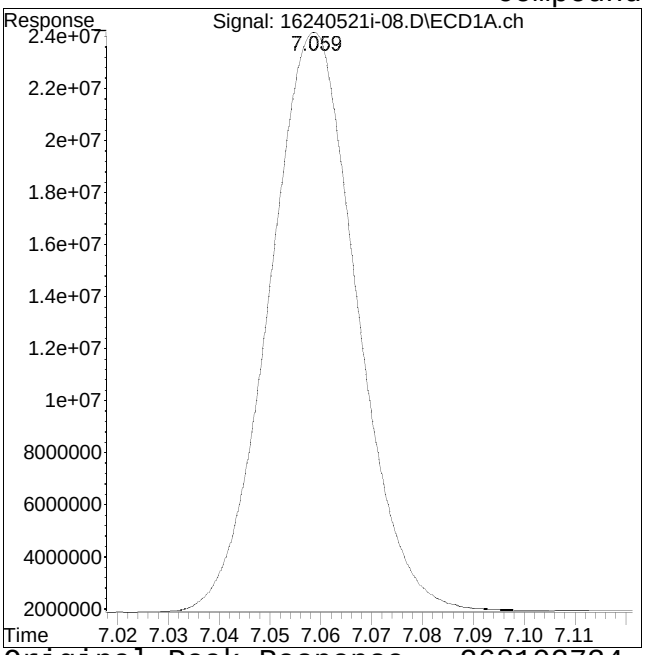


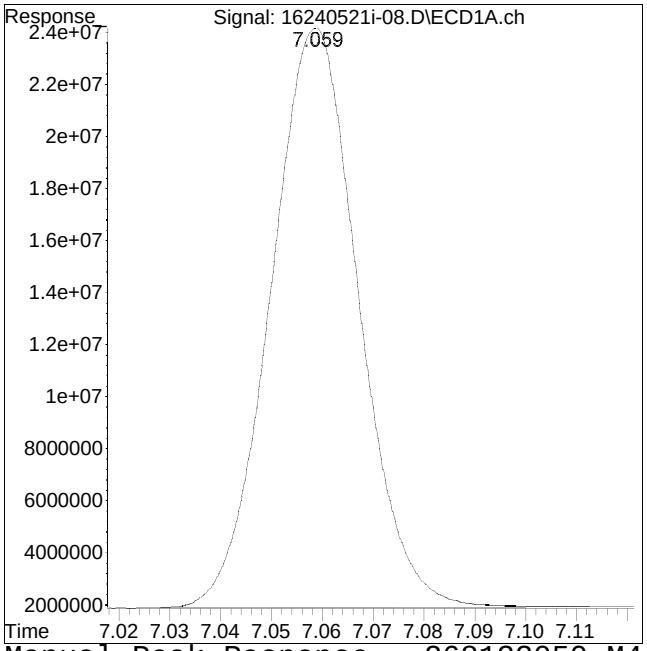
Original Peak Response = 199758347 Manual Peak Response = 199762108 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240521iQMethod : Herb16_2024_05_21_ICAL.m
Data File : 16240521i-08.D Operator : pest16:jag
Date Inj'd : 5/21/2024 7:53 pm Instrument : PEST16
Sample : cicv,42e,,pp 11458 L0.2/20Quant Date : 5/24/2024 9:13 am

Compound #4: Dicamba



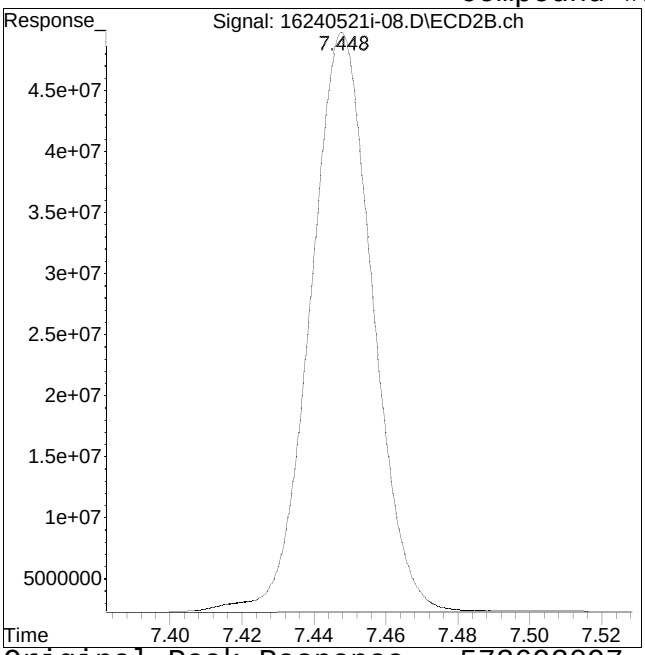


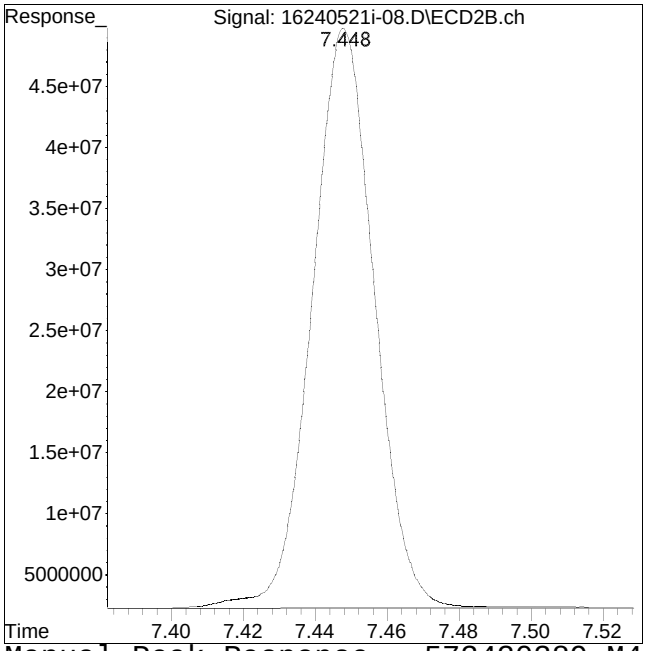
Original Peak Response = 268103734 Manual Peak Response = 268133050 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240521iQMethod : Herb16_2024_05_21_ICAL.m
Data File : 16240521i-08.D Operator : pest16:jag
Date Inj'd : 5/21/2024 7:53 pm Instrument : PEST16
Sample : cicv,42e,,pp 11458 L0.2/20Quant Date : 5/24/2024 9:13 am

Compound #17: Dicamba #2



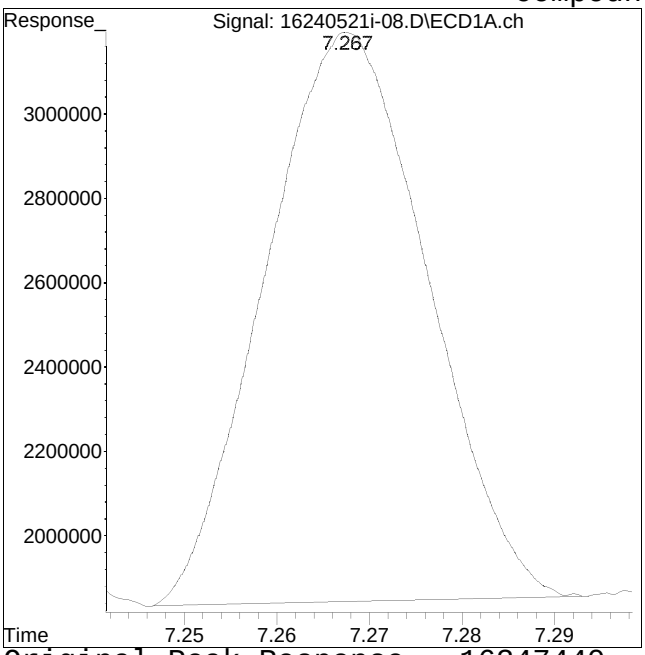


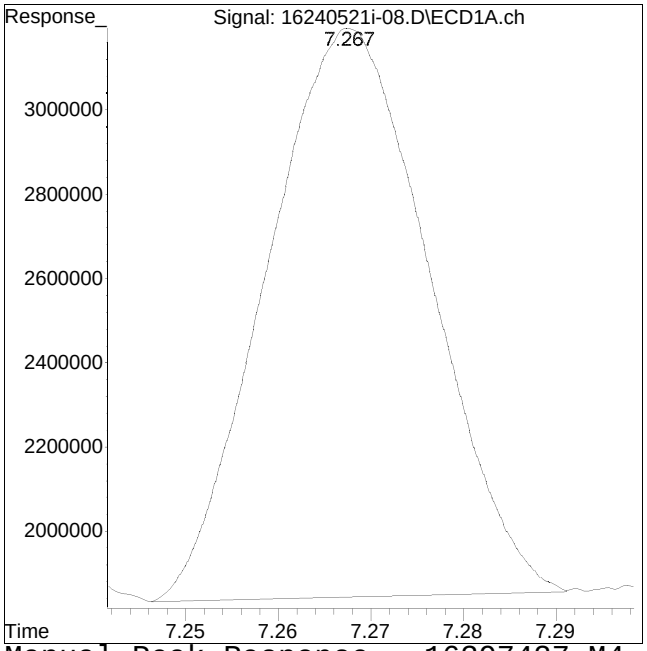
Original Peak Response = 573692097 Manual Peak Response = 573430389 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240521iQMethod : Herb16_2024_05_21_ICAL.m
Data File : 16240521i-08.D Operator : pest16:jag
Date Inj'd : 5/21/2024 7:53 pm Instrument : PEST16
Sample : cicv,42e,,pp 11458 L0.2/20Quant Date : 5/24/2024 9:13 am

Compound #5: MCPP



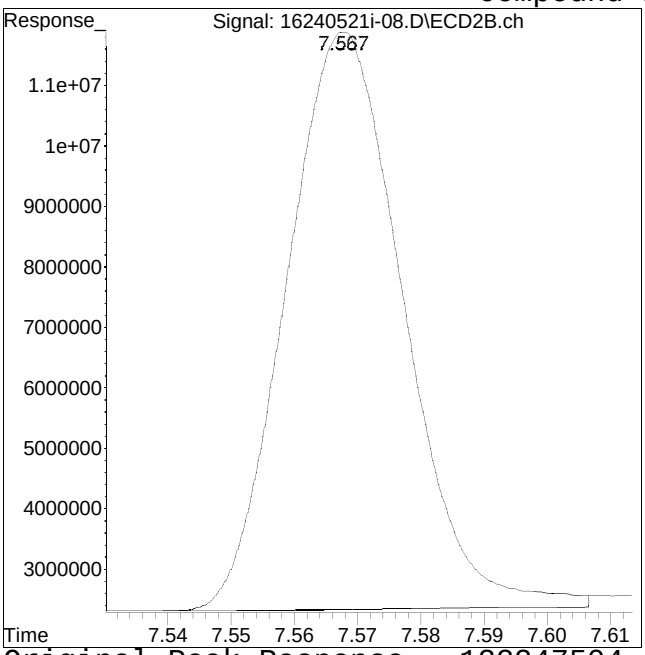


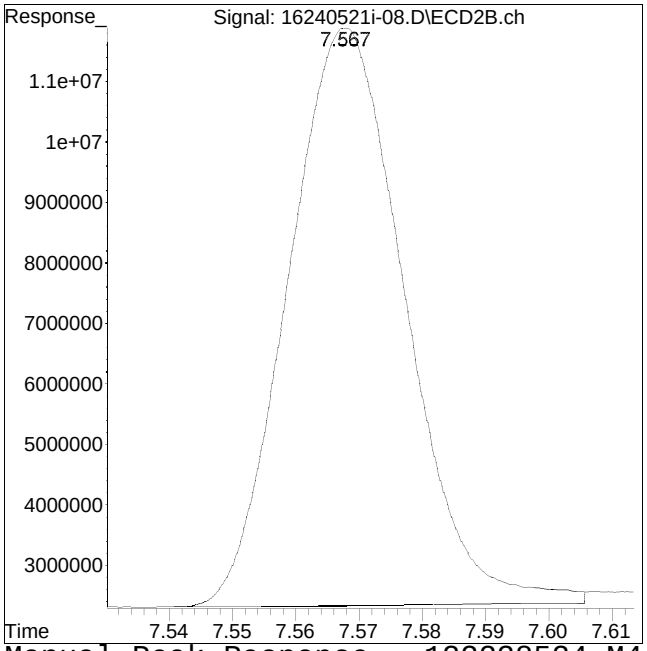
Original Peak Response = 16347440 Manual Peak Response = 16397427 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240521iQMethod : Herb16_2024_05_21_ICAL.m
Data File : 16240521i-08.D Operator : pest16:jag
Date Inj'd : 5/21/2024 7:53 pm Instrument : PEST16
Sample : cicv,42e,,pp 11458 L0.2/20Quant Date : 5/24/2024 9:13 am

Compound #18: MCPP #2



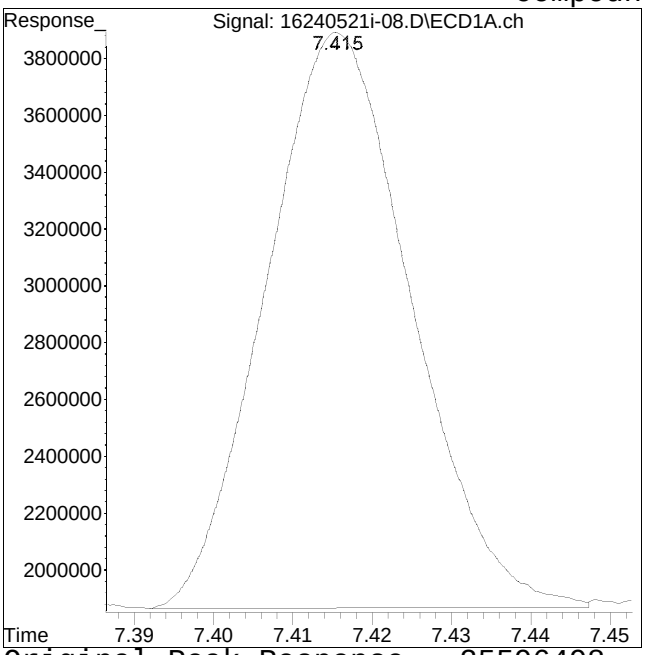


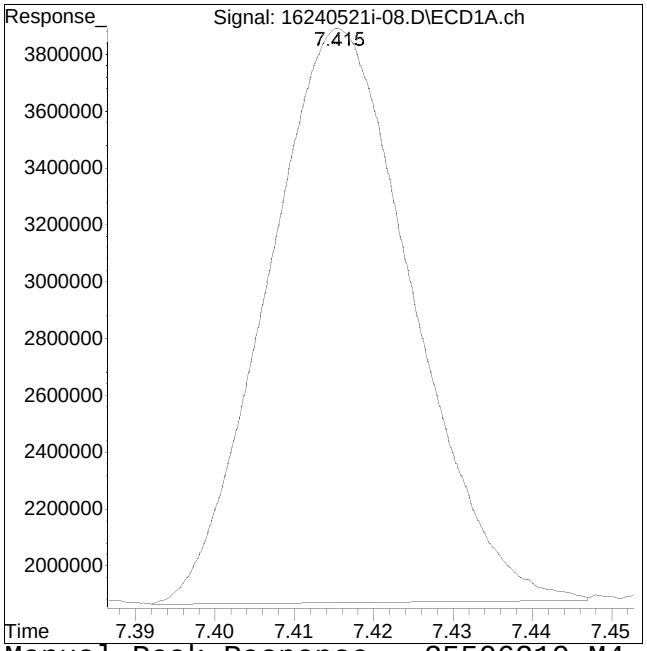
Original Peak Response = 122247504 Manual Peak Response = 122238524 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240521iQMethod : Herb16_2024_05_21_ICAL.m
Data File : 16240521i-08.D Operator : pest16:jag
Date Inj'd : 5/21/2024 7:53 pm Instrument : PEST16
Sample : cicv,42e,,pp 11458 L0.2/20Quant Date : 5/24/2024 9:13 am

Compound #6: MCPA



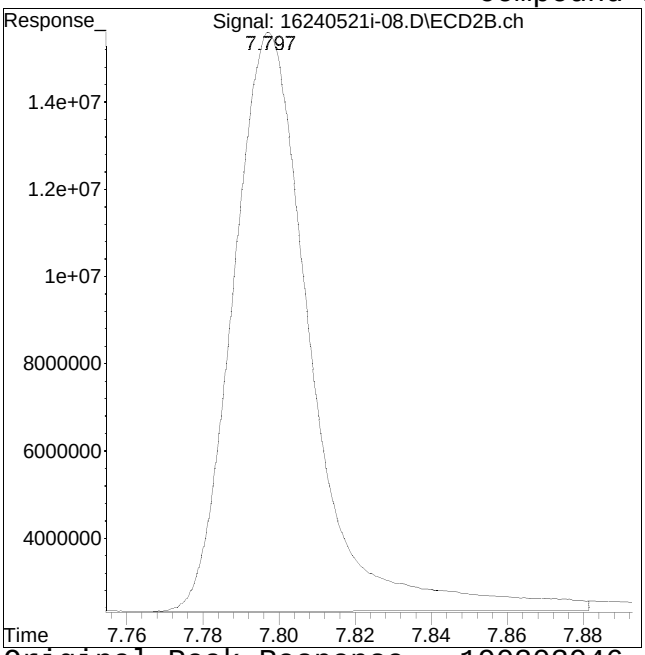


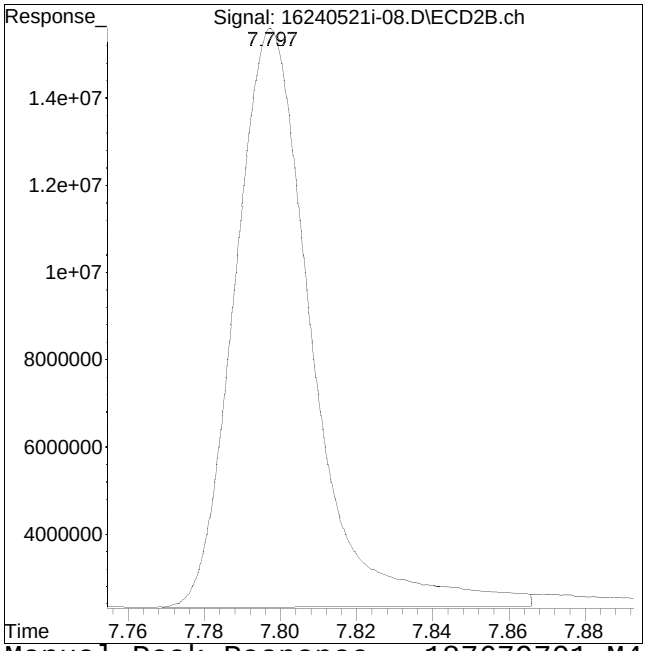
Original Peak Response = 25596498 Manual Peak Response = 25506210 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240521iQMethod : Herb16_2024_05_21_ICAL.m
Data File : 16240521i-08.D Operator : pest16:jag
Date Inj'd : 5/21/2024 7:53 pm Instrument : PEST16
Sample : cicv,42e,,pp 11458 L0.2/20Quant Date : 5/24/2024 9:13 am

Compound #19: MCPA #2



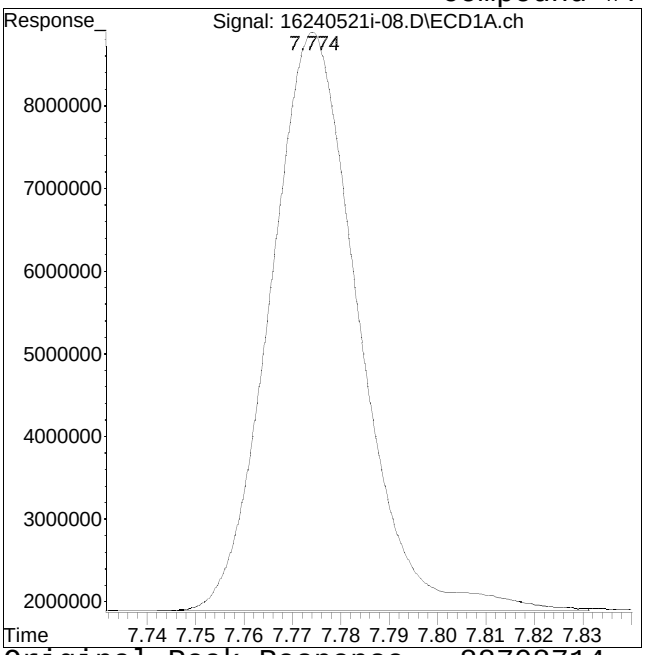


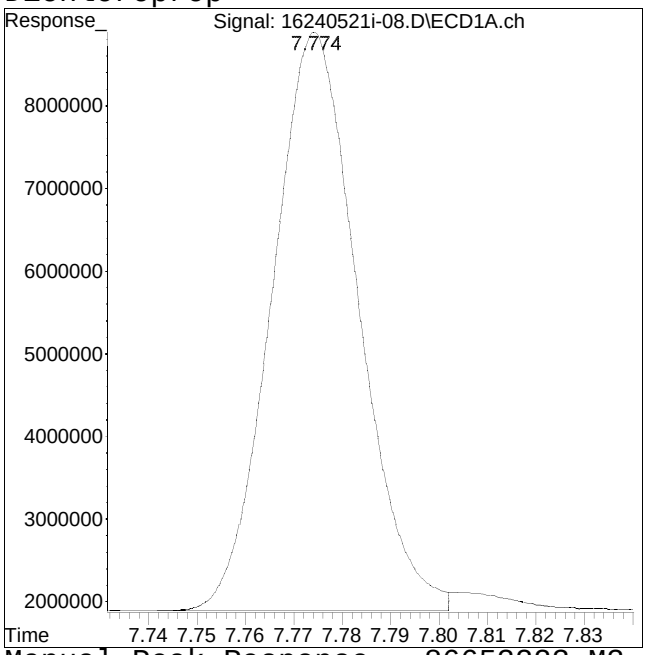
Original Peak Response = 190303946 Manual Peak Response = 187679701 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240521iQMethod : Herb16_2024_05_21_ICAL.m
Data File : 16240521i-08.D Operator : pest16:jag
Date Inj'd : 5/21/2024 7:53 pm Instrument : PEST16
Sample : cicv,42e,,pp 11458 L0.2/20Quant Date : 5/24/2024 9:13 am

Compound #7: Dichloroprop



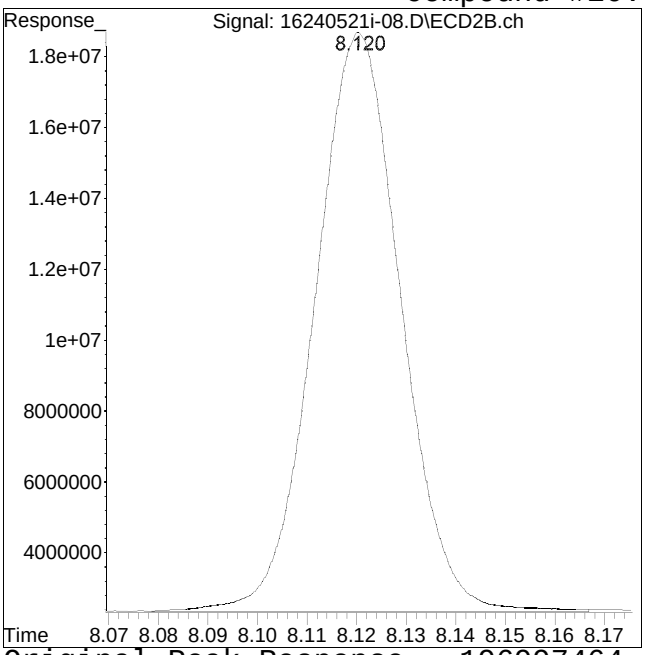


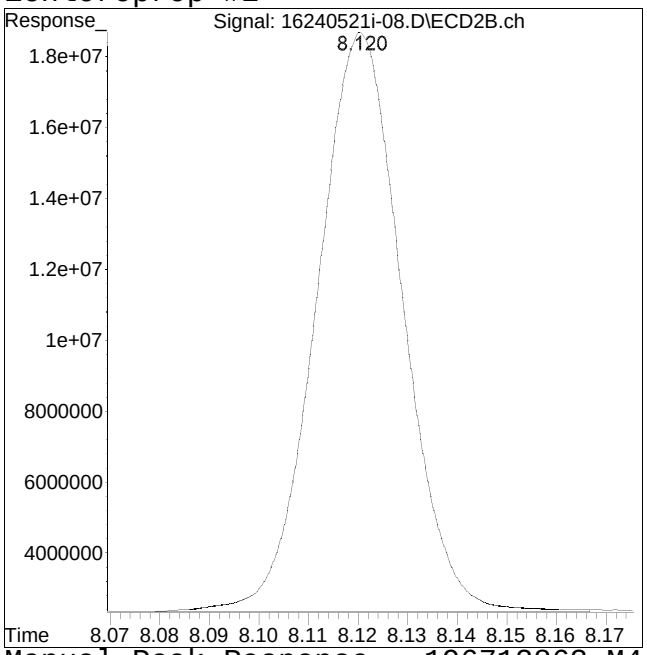
Original Peak Response = 88708714 Manual Peak Response = 86653223 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240521iQMethod : Herb16_2024_05_21_ICAL.m
Data File : 16240521i-08.D Operator : pest16:jag
Date Inj'd : 5/21/2024 7:53 pm Instrument : PEST16
Sample : cicv,42e,,pp 11458 L0.2/20Quant Date : 5/24/2024 9:13 am

Compound #20: Dichloroprop #2



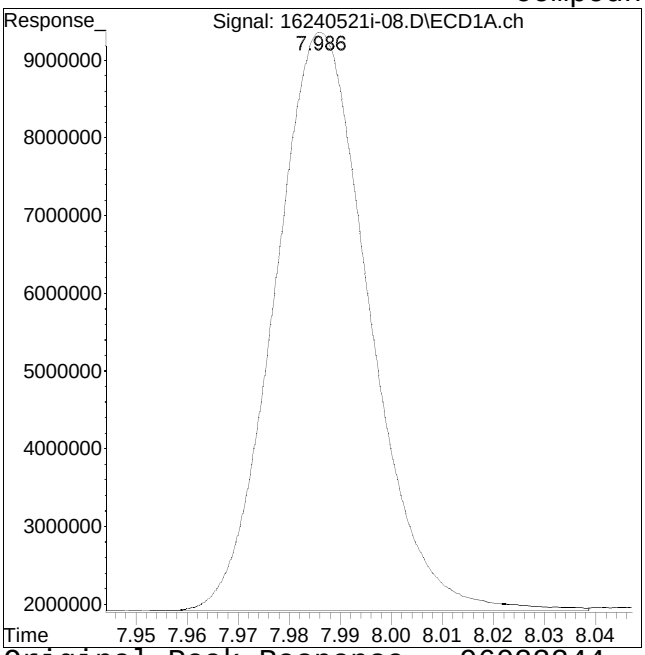


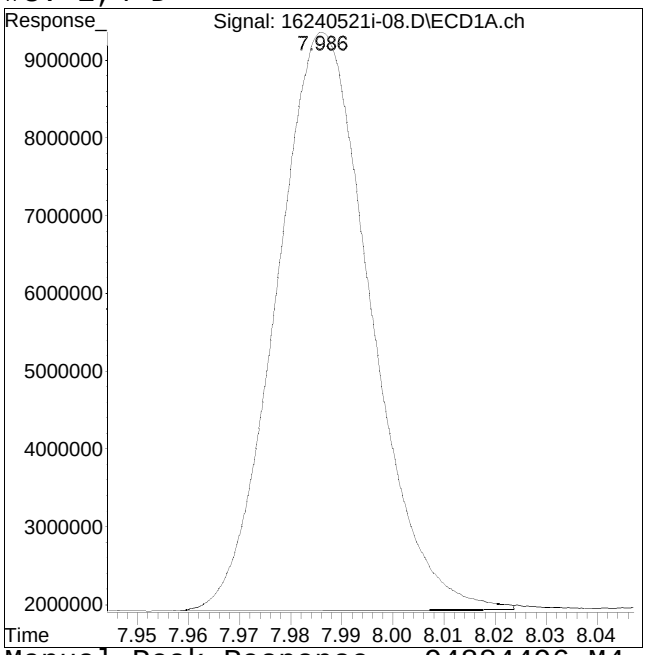
Original Peak Response = 196997464 Manual Peak Response = 196712863 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240521iQMethod : Herb16_2024_05_21_ICAL.m
Data File : 16240521i-08.D Operator : pest16:jag
Date Inj'd : 5/21/2024 7:53 pm Instrument : PEST16
Sample : cicv,42e,,pp 11458 L0.2/20Quant Date : 5/24/2024 9:13 am

Compound #8: 2,4-D



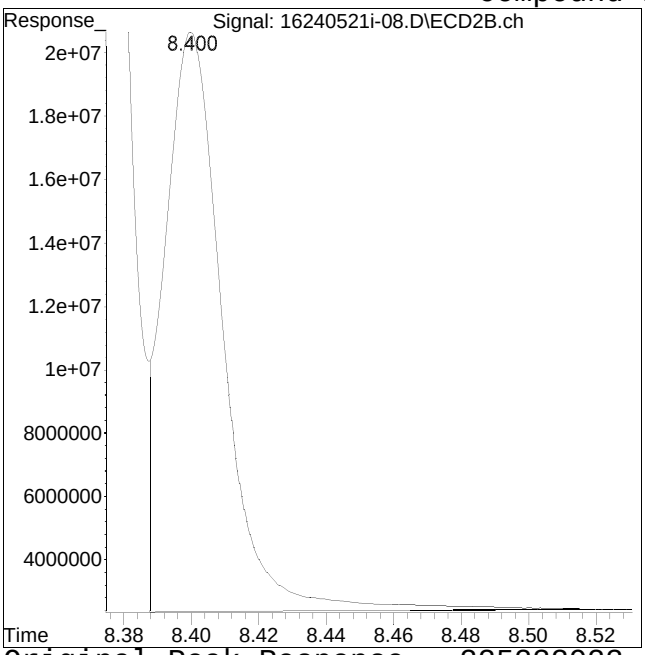


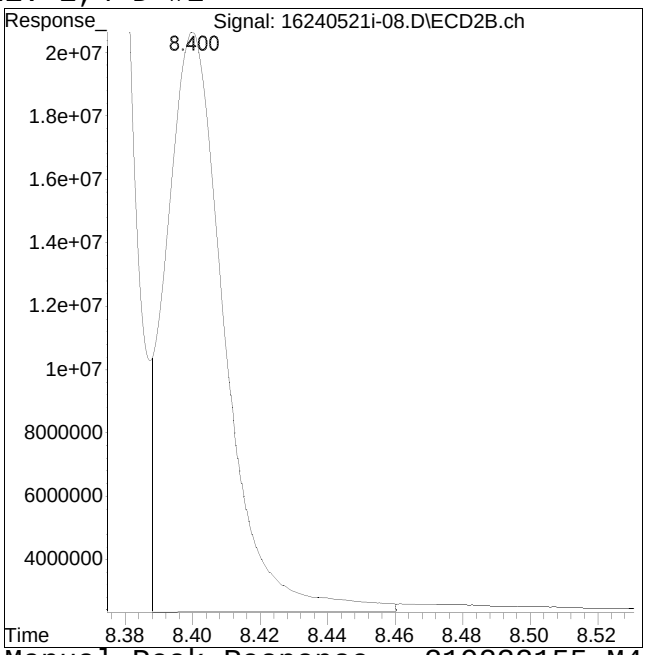
Original Peak Response = 96023244 Manual Peak Response = 94884496 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240521iQMethod : Herb16_2024_05_21_ICAL.m
Data File : 16240521i-08.D Operator : pest16:jag
Date Inj'd : 5/21/2024 7:53 pm Instrument : PEST16
Sample : cicv,42e,,pp 11458 L0.2/20Quant Date : 5/24/2024 9:13 am

Compound #21: 2,4-D #2



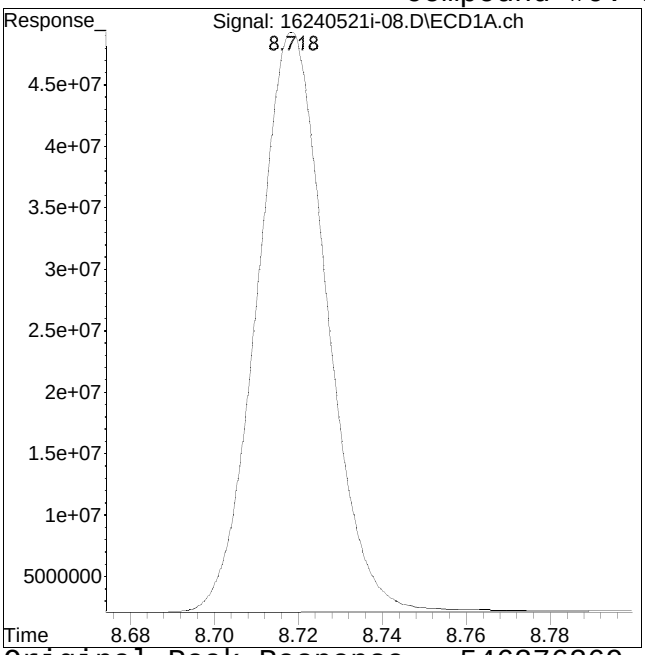


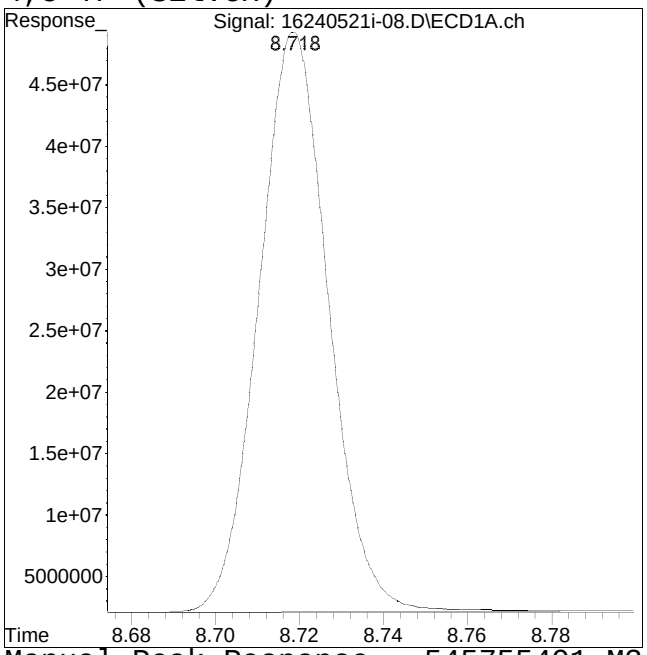
Original Peak Response = 225232923 Manual Peak Response = 219232155 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240521iQMethod : Herb16_2024_05_21_ICAL.m
Data File : 16240521i-08.D Operator : pest16:jag
Date Inj'd : 5/21/2024 7:53 pm Instrument : PEST16
Sample : cicv,42e,,pp 11458 L0.2/20Quant Date : 5/24/2024 9:13 am

Compound #9: 2,4,5-TP (Silvex)



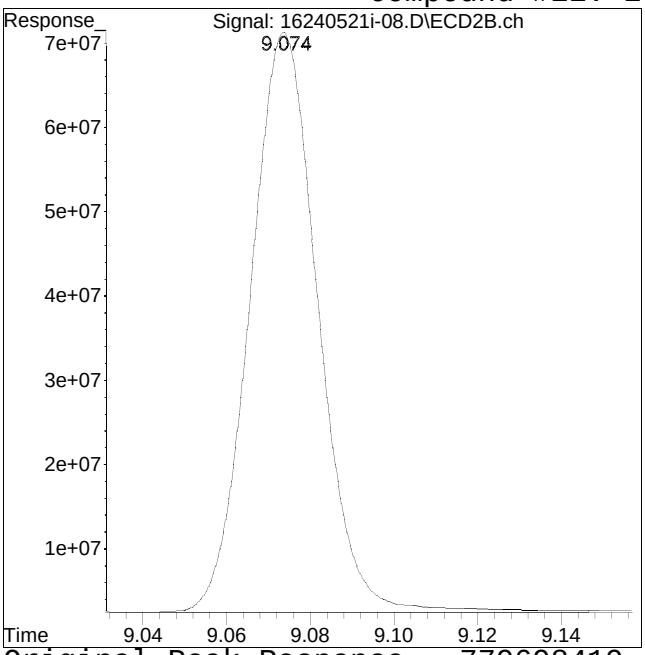


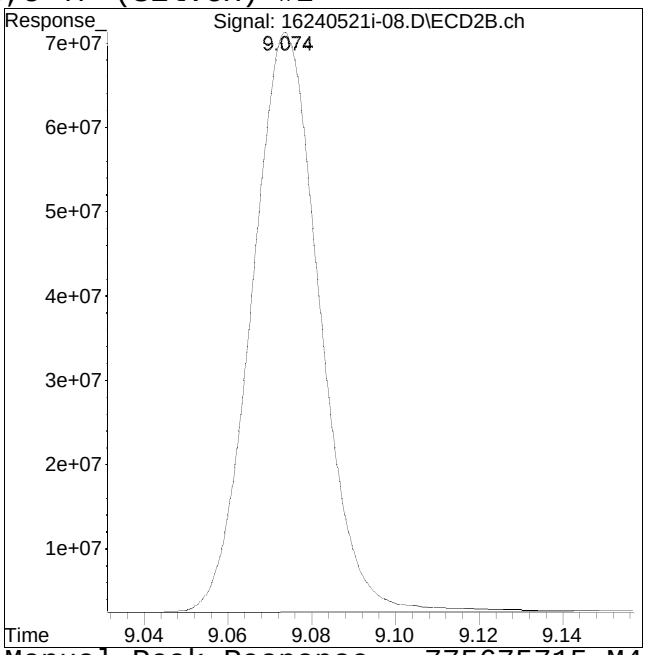
Original Peak Response = 546376369 Manual Peak Response = 545755491 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240521iQMethod : Herb16_2024_05_21_ICAL.m
Data File : 16240521i-08.D Operator : pest16:jag
Date Inj'd : 5/21/2024 7:53 pm Instrument : PEST16
Sample : cicv,42e,,pp 11458 L0.2/20Quant Date : 5/24/2024 9:13 am

Compound #22: 2,4,5-TP (Silvex) #2



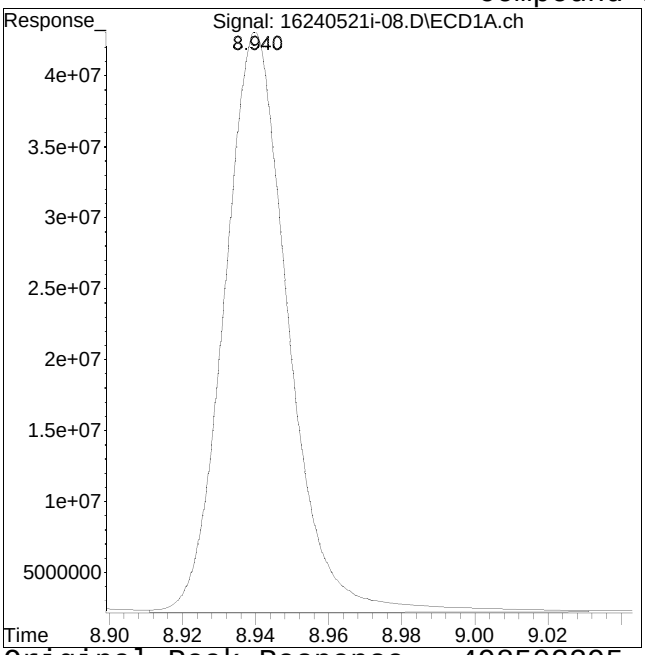


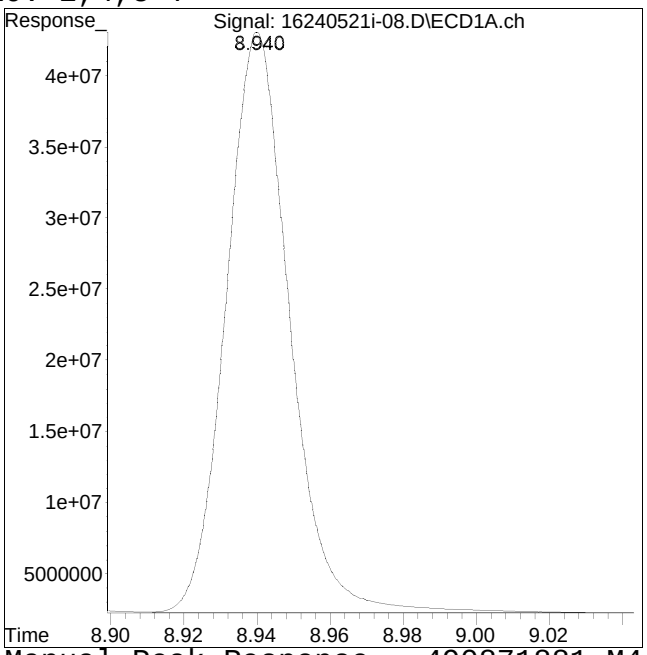
Original Peak Response = 779698419 Manual Peak Response = 775675715 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240521iQMethod : Herb16_2024_05_21_ICAL.m
Data File : 16240521i-08.D Operator : pest16:jag
Date Inj'd : 5/21/2024 7:53 pm Instrument : PEST16
Sample : cicv,42e,,pp 11458 L0.2/20Quant Date : 5/24/2024 9:13 am

Compound #10: 2,4,5-T



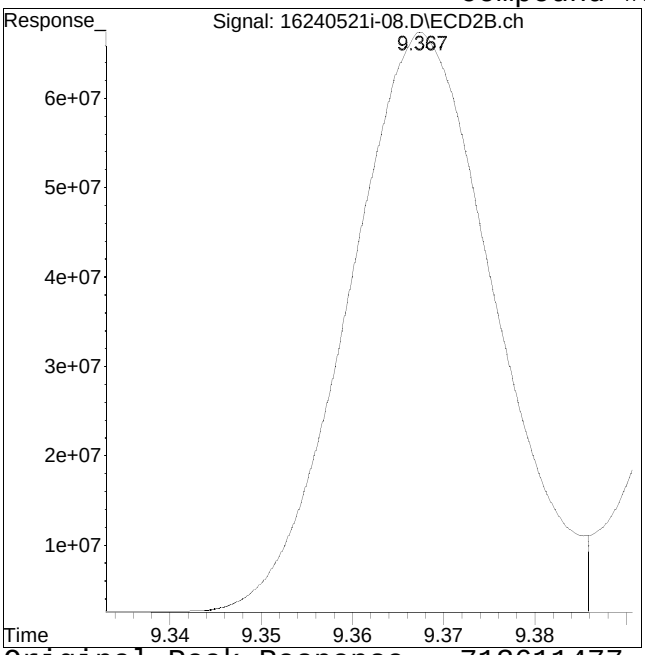


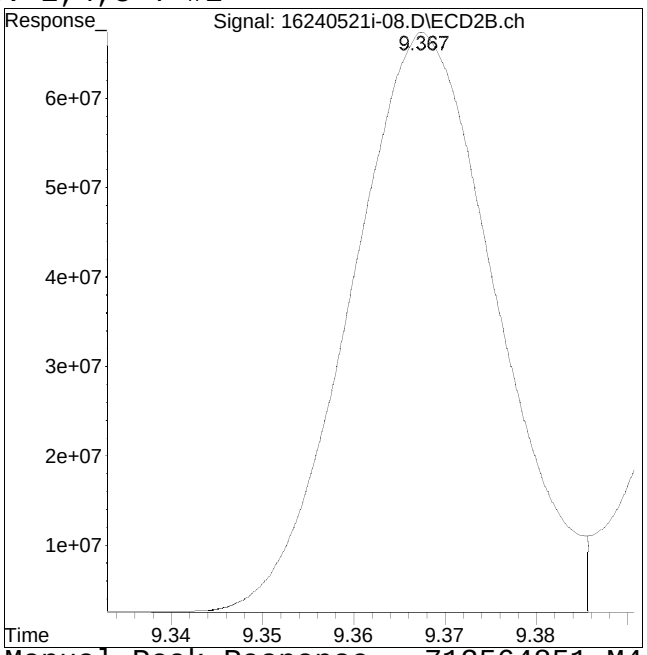
Original Peak Response = 498502395 Manual Peak Response = 490871881 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240521iQMethod : Herb16_2024_05_21_ICAL.m
Data File : 16240521i-08.D Operator : pest16:jag
Date Inj'd : 5/21/2024 7:53 pm Instrument : PEST16
Sample : cicv,42e,,pp 11458 L0.2/20Quant Date : 5/24/2024 9:13 am

Compound #23: 2,4,5-T #2



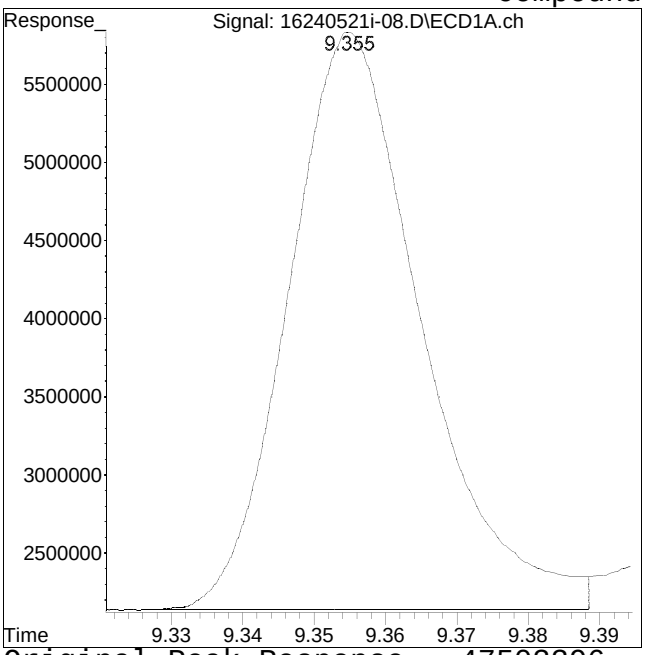


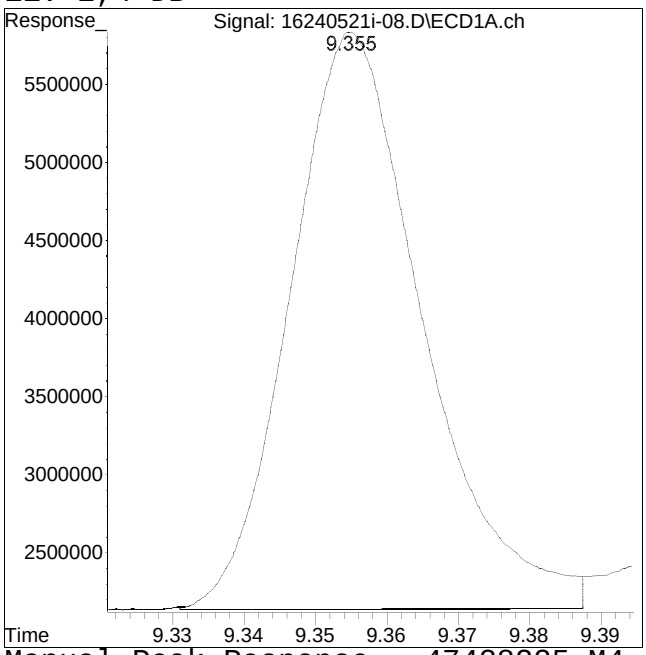
Original Peak Response = 713611477 Manual Peak Response = 712564851 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240521iQMethod : Herb16_2024_05_21_ICAL.m
Data File : 16240521i-08.D Operator : pest16:jag
Date Inj'd : 5/21/2024 7:53 pm Instrument : PEST16
Sample : cicv,42e,,pp 11458 L0.2/20Quant Date : 5/24/2024 9:13 am

Compound #11: 2,4-DB



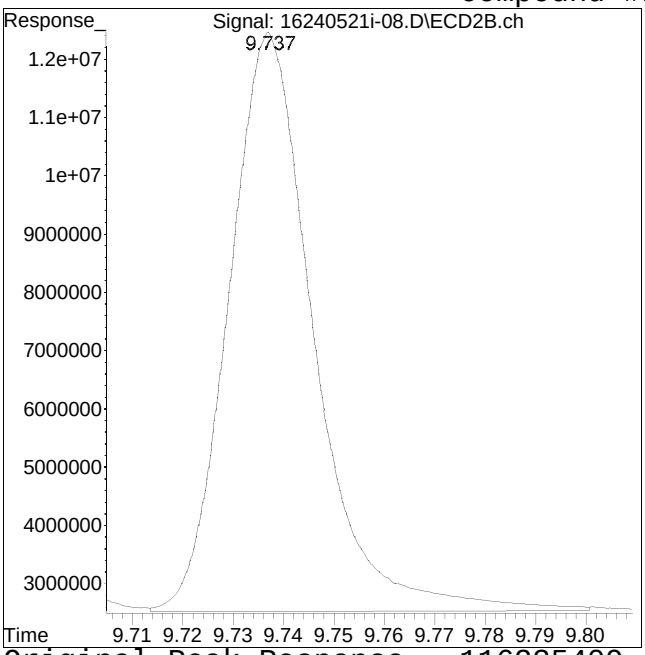


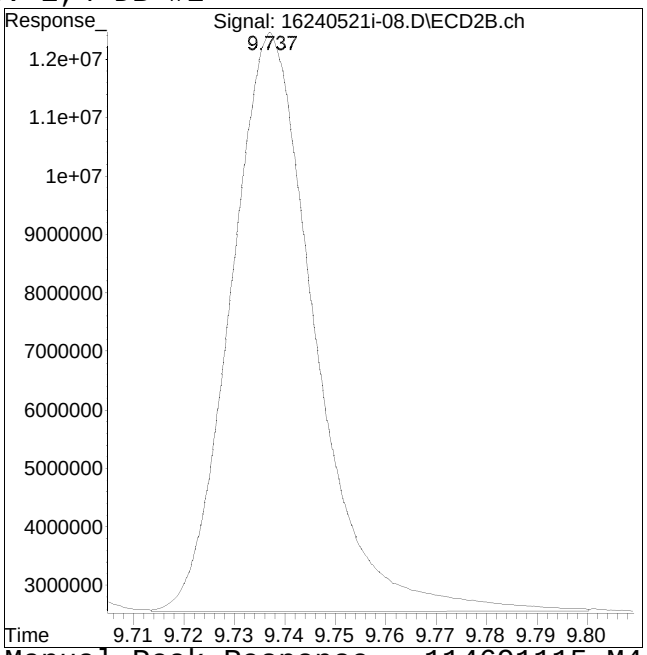
Original Peak Response = 47503396 Manual Peak Response = 47428225 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240521iQMethod : Herb16_2024_05_21_ICAL.m
Data File : 16240521i-08.D Operator : pest16:jag
Date Inj'd : 5/21/2024 7:53 pm Instrument : PEST16
Sample : cicv,42e,,pp 11458 L0.2/20Quant Date : 5/24/2024 9:13 am

Compound #24: 2,4-DB #2



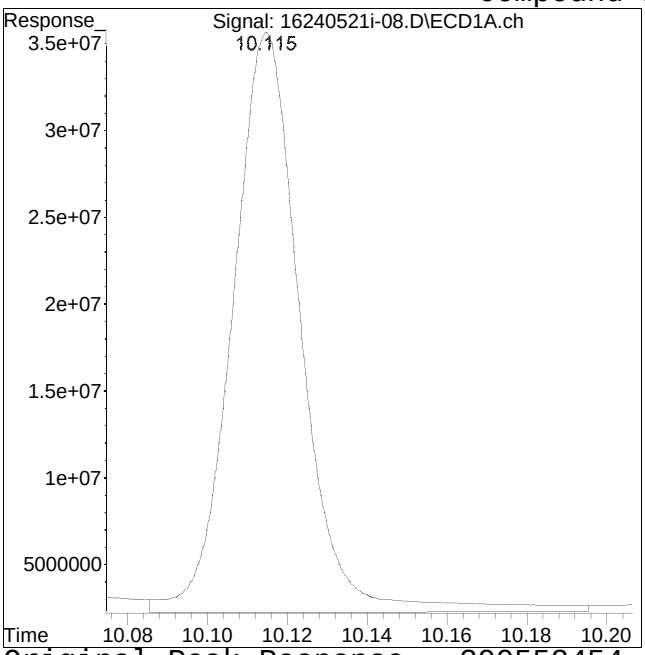


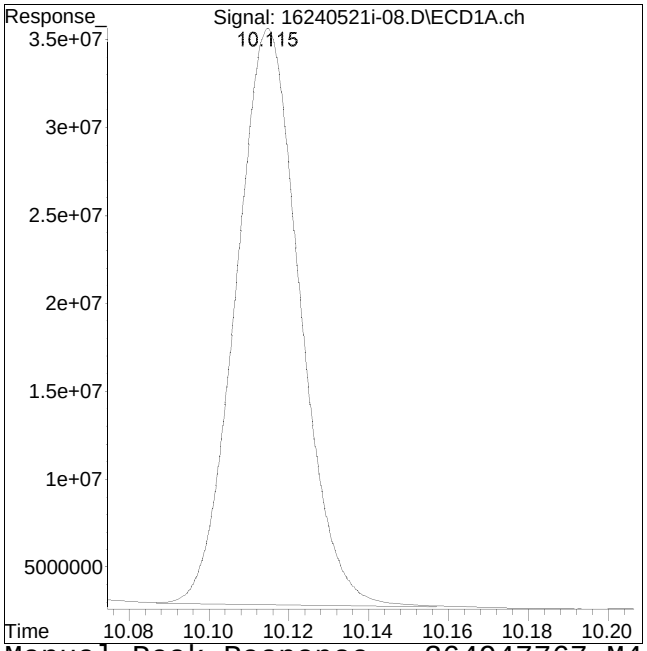
Original Peak Response = 116235409 Manual Peak Response = 114691115 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240521iQMethod : Herb16_2024_05_21_ICAL.m
Data File : 16240521i-08.D Operator : pest16:jag
Date Inj'd : 5/21/2024 7:53 pm Instrument : PEST16
Sample : cicv,42e,,pp 11458 L0.2/20Quant Date : 5/24/2024 9:13 am

Compound #12: Dinoseb



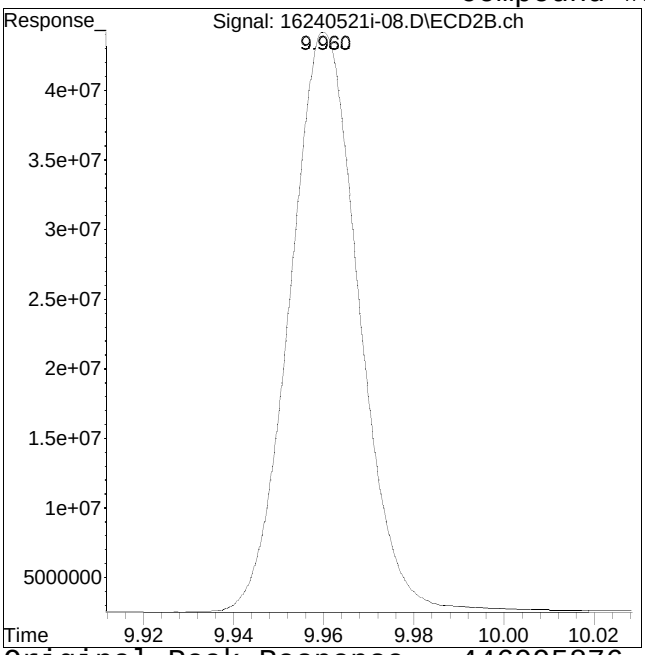


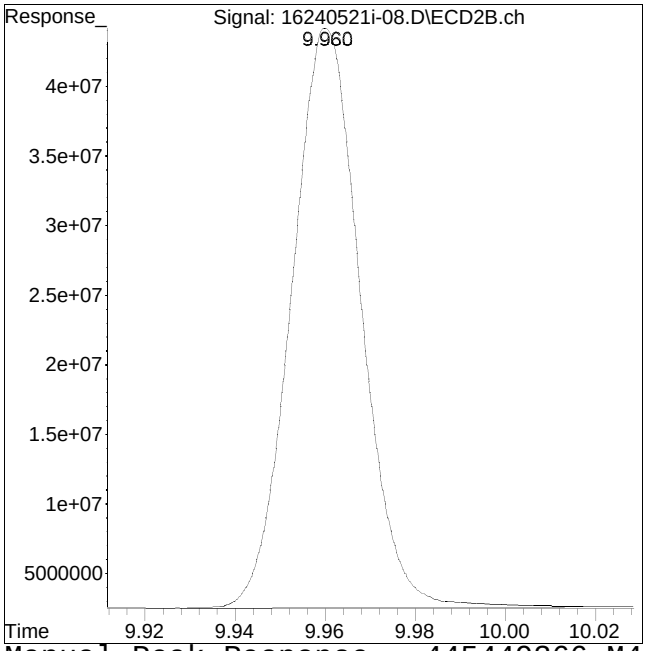
Original Peak Response = 399552454 Manual Peak Response = 364947767 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240521iQMethod : Herb16_2024_05_21_ICAL.m
Data File : 16240521i-08.D Operator : pest16:jag
Date Inj'd : 5/21/2024 7:53 pm Instrument : PEST16
Sample : cicv,42e,,pp 11458 L0.2/20Quant Date : 5/24/2024 9:13 am

Compound #25: Dinoseb #2





Original Peak Response = 446995876 Manual Peak Response = 445449366 M4
M4 = Poor automated baseline construction.

Evaluate Relative Error Report PEST16

Method Path : I:\PCB\Pest16\2024\240521ical\
Method File : Herb16_2024_05_21_ICAL.m
Title : herb
Last Update : Thu May 23 16:34:29 2024

	COMPOUND	CalFit	Units	TrueMid	MidConc	%RE	TrueLow	LowConc	%RE
2	T Dalapon	L	mg/l	0.2	0.182	0.0	0.05	0.044	-3.3
3	S DCAA (surrogate)	L	mg/l	0.2	0.198	5.3	0.05	0.042	-10.6
5	T MCPP	L	mg/l	18.8	19.789	5.3	9.40	8.310	-11.6
6	T MCPA	L	mg/l	18.6	19.635	5.6	9.30	8.280	-11.0
15	T Dalapon #2	L	mg/l	0.2	0.190	4.4	0.05	0.039	-14.3
16	S DCAA (surrogate) #2	L	mg/l	0.2	0.205	9.0	0.05	0.039	-17.0
18	T MCPP #2	L	mg/l	18.8	20.586	9.5	9.40	7.601	-19.1
19	T MCPA #2	L	mg/l	18.6	20.308	9.2	9.30	7.354	-20.9

Calibration Correlation Report

	COMPOUND	CalFit	CoefOfDet	QuadTerm	LinTerm	Constant
2	T Dalapon	Linear	0.999852	0.000000	0.139345	0.00904317
3	S DCAA (surrogate)	Linear	0.999193	0.000000	0.0719713	0.00803161
5	T MCPP	Linear	0.997462	0.000000	0.000180855	0.00234356
6	T MCPA	Linear	0.997950	0.000000	0.000267557	0.00542494
15	T Dalapon #2	Linear	0.998099	0.000000	0.155307	0.0176377
16	S DCAA (surrogate) #2	Linear	0.997377	0.000000	0.150643	0.0221777
18	T MCPP #2	Linear	0.993389	0.000000	0.000748629	0.027831
19	T MCPA #2	Linear	0.991457	0.000000	0.00111962	0.0506834

Continuing Calibration

Calibration Verification Summary
Form 7
Pesticides

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Instrument ID	: PEST16	**Calibration Date**	: 06/24/24 05:47
Lab File ID	: 16240624a-02	**Init. Calib. Date(s)**	: 05/21/24 05/21/24
Sample No	: WG1938572-1	**Init. Calib. Times**	: 18:01 19:34
Channel	: A		

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
4,4'-DBOB	1	1	-	0	15	119	0
Dalapon	0.182	0.179	-	1.6	15	115	0
DCAA (surrogate)	0.188	0.208	-	-10.6	15	123	0
Dicamba	0.393	0.416	-	-5.9	15	126	0
MCPP	18.8	21.039	-	-11.9	15	123	0
MCPA	18.6	20.339	-	-9.3	15	120	0
Dichloroprop	0.111	0.116	-	-4.5	15	122	0
2,4-D	0.132	0.137	-	-3.8	15	121	0
2,4,5-TP (Silvex)	0.783	0.825	-	-5.4	15	125	0
2,4,5-T	0.683	0.727	-	-6.4	15	127	0
2,4-DB	0.065	0.065	-	0	15	114	0
Dinoseb	0.507	0.549	-	-8.3	15	129	0

* Value outside of QC limits.

Calibration Verification Summary
Form 7
Pesticides

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Instrument ID	: PEST16	**Calibration Date**	: 06/24/24 05:47
Lab File ID	: 16240624a-02	**Init. Calib. Date(s)**	: 05/21/24 05/21/24
Sample No	: WG1938572-1	**Init. Calib. Times**	: 18:01 19:34
Channel	: B		

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
4,4'-DBOB	1	1	-	0	15	119	0
Dalapon	0.182	0.204	-	-12.1	15	124	0
DCAA (surrogate)	0.188	0.226	-	-20.2*	15	126	0
Dicamba	0.563	0.641	-	-13.9	15	130	0
MCPP	18.8	20.225	-	-7.6	15	115	0
MCPA	18.6	17.886	-	3.8	15	107	0
Dichloroprop	0.174	0.202	-	-16.1*	15	131	0
2,4-D	0.217	0.261	-	-20.3*	15	138	0
2,4,5-TP (Silvex)	0.773	0.902	-	-16.7*	15	133	0
2,4,5-T	0.696	0.811	-	-16.5*	15	134	0
2,4-DB	0.114	0.128	-	-12.3	15	130	0
Dinoseb	0.421	0.423	-	-0.5	15	114	0

* Value outside of QC limits.

Calibration Verification Summary
Form 7
Pesticides

Client	: Alpha Geoscience		**Lab Number**	: L2434679	
Project Name	: RANCO MINE		**Project Number**	: 12123	
Instrument ID	: PEST22		**Calibration Date**	: 06/24/24 16:07	
Lab File ID	: 22240624a-20		**Init. Calib. Date(s)**	: 04/12/24	04/12/24
Sample No	: WG1938492-2		**Init. Calib. Times**	: 06:35	08:08
Channel	: A				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
4,4'-DBOB	1	1	-	0	15	158	-.01
Dalapon	0.211	0.184	-	12.8	15	131	0
DCAA (surrogate)	0.206	0.222	-	-7.8	15	159	-.01
Dicamba	0.589	0.664	-	-12.7	15	164	-.01
MCPP	0.00052	0.00103	-	-98.1*	15	290	-.01
MCPA	0.00097	0.00152	-	-56.7*	15	231	-.01
Dichloroprop	0.193	0.209	-	-8.3	15	157	-.01
2,4-D	0.24	0.278	-	-15.8*	15	169	0
2,4,5-TP (Silvex)	0.868	0.962	-	-10.8	15	161	0
2,4,5-T	0.853	1.007	-	-18.1*	15	174	.01
2,4-DB	0.132	0.139	-	-5.3	15	153	.01
Dinoseb	0.493	0.682	-	-38.3*	15	203	0

* Value outside of QC limits.

Calibration Verification Summary
Form 7
Pesticides

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Instrument ID	: PEST22	**Calibration Date**	: 06/24/24 16:07
Lab File ID	: 22240624a-20	**Init. Calib. Date(s)**	: 04/12/24 04/12/24
Sample No	: WG1938492-2	**Init. Calib. Times**	: 06:35 08:08
Channel	: B		

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
4,4'-DBOB	1	1	-	0	15	185	0
Dalapon	0.197	0.172	-	12.7	15	154	0
DCAA (surrogate)	0.203	0.215	-	-5.9	15	183	0
Dicamba	0.594	0.627	-	-5.6	15	184	0
MCPP	0.00074	0.00067	-	9.5	15	161	0
MCPA	0.00124	0.00119	-	4	15	168	0
Dichloroprop	0.192	0.204	-	-6.2	15	183	0
2,4-D	0.237	0.265	-	-11.8	15	196	0
2,4,5-TP (Silvex)	0.856	0.945	-	-10.4	15	191	0
2,4,5-T	0.831	0.865	-	-4.1	15	182	0
2,4-DB	0.141	0.152	-	-7.8	15	190	0
Dinoseb	0.491	0.552	-	-12.4	15	198	0

* Value outside of QC limits.

Calibration Verification Summary
Form 7
Pesticides

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Instrument ID	: PEST22	**Calibration Date**	: 06/24/24 23:51
Lab File ID	: 22240624a-36	**Init. Calib. Date(s)**	: 04/12/24 04/12/24
Sample No	: WG1938492-3	**Init. Calib. Times**	: 06:35 08:08
Channel	: A		

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
4,4'-DBOB	1	1	-	0	15	124	-.01
Dalapon	0.211	0.201	-	4.7	15	112	-.01
DCAA (surrogate)	0.206	0.227	-	-10.2	15	128	-.01
Dicamba	0.589	0.658	-	-11.7	15	128	-.01
MCPP	0.00052	0.00101	-	-94.2*	15	225	-.01
MCPA	0.00097	0.00169	-	-74.2*	15	203	-.01
Dichloroprop	0.193	0.208	-	-7.8	15	123	-.01
2,4-D	0.24	0.274	-	-14.2	15	131	.02
2,4,5-TP (Silvex)	0.868	0.949	-	-9.3	15	125	0
2,4,5-T	0.853	0.946	-	-10.9	15	128	.02
2,4-DB	0.132	0.136	-	-3	15	119	.03
Dinoseb	0.493	0.737	-	-49.5*	15	173	0

* Value outside of QC limits.

Calibration Verification Summary
Form 7
Pesticides

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Instrument ID	: PEST22	**Calibration Date**	: 06/24/24 23:51
Lab File ID	: 22240624a-36	**Init. Calib. Date(s)**	: 04/12/24 04/12/24
Sample No	: WG1938492-3	**Init. Calib. Times**	: 06:35 08:08
Channel	: B		

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
4,4'-DBOB	1	1	-	0	15	147	0
Dalapon	0.197	0.184	-	6.6	15	130	0
DCAA (surrogate)	0.203	0.215	-	-5.9	15	146	0
Dicamba	0.594	0.625	-	-5.2	15	146	0
MCPP	0.00074	0.00063	-	14.9	15	121	0
MCPA	0.00124	0.00118	-	4.8	15	133	0
Dichloroprop	0.192	0.204	-	-6.2	15	146	0
2,4-D	0.237	0.264	-	-11.4	15	155	.01
2,4,5-TP (Silvex)	0.856	0.955	-	-11.6	15	154	0
2,4,5-T	0.831	0.841	-	-1.2	15	141	.01
2,4-DB	0.141	0.143	-	-1.4	15	142	.02
Dinoseb	0.491	0.534	-	-8.8	15	152	0

* Value outside of QC limits.

Evaluate Continuing Calibration Report

Data Path : I:\PEST\Pest22\2024\240624a\
Data File : 22240624a-20.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On   : 24 Jun 2024 16:07
Operator : pest22:peg
Sample   : wg1938492-2,42,,herb11561 (Sig #1); herb11561 (Sig #2)
Misc   : wg1938492,,ical21040
ALS Vial : 20   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 25 06:20:43 2024
Quant Method : I:\PEST\Pest22\2024\240624a\Herb22_2024_04_12_mgL_ICAL21040.m
Quant Title : herb
QLast Update : Sun Jun 23 09:11:26 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 15%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
1	i	4,4'-DBOB	^	1.000	1.000	0.0	158	-0.01
2	t	Dalapon		0.211	0.184	12.8	131	0.00
3	s	DCAA (surrogate)		0.206	0.222	-7.8	159#	-0.01
4	t	Dicamba		0.589	0.664	-12.7	164#	-0.01
5	t	MCPP		0.00052	0.00103	-98.1#	290#	-0.01
6	t	MCPA		0.00097	0.00152	-56.7#	231#	-0.01
7	t	Dichloroprop		0.193	0.209	-8.3	157#	-0.01
8	t	2,4-D		0.240	0.278	-15.8#	169#	0.00
9	t	2,4,5-TP (Silvex)		0.868	0.962	-10.8	161#	0.00
10	t	2,4,5-T		0.853	1.007	-18.1#	174#	0.01
11	t	2,4-DB		0.132	0.139	-5.3	153#	0.01
12	t	Dinoseb		0.493	0.682	-38.3#	203#	0.00

Signal #2

1	i	4,4'-DBOB	^	1.000	1.000	0.0	185	0.00
2	t	Dalapon		0.197	0.172	12.7	154#	0.00
3	s	DCAA (surrogate)		0.203	0.215	-5.9	183#	0.00
4	t	Dicamba		0.594	0.627	-5.6	184#	0.00
5	t	MCPP		0.00074	0.00067	9.5	161#	0.00
6	t	MCPA		0.00124	0.00119	4.0	168#	0.00
7	t	Dichloroprop		0.192	0.204	-6.2	183#	0.00
8	t	2,4-D		0.237	0.265	-11.8	196#	0.00
9	t	2,4,5-TP (Silvex)		0.856	0.945	-10.4	191#	0.00
10	t	2,4,5-T		0.831	0.865	-4.1	182#	0.00
11	t	2,4-DB		0.141	0.152	-7.8	190#	0.00
12	t	Dinoseb		0.491	0.552	-12.4	198#	0.00

Evaluate Continuing Calibration Report - Not Founds

Evaluate Continuing Calibration Report

Data Path : I:\PEST\Pest22\2024\240624a\
Data File : 22240624a-20.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On   : 24 Jun 2024 16:07
Operator : pest22:peg
Sample   : wg1938492-2,42,,herb11561 (Sig #1); herb11561 (Sig #2)
Misc   : wg1938492,,ical21040
ALS Vial : 20   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 25 06:20:43 2024
Quant Method : I:\PEST\Pest22\2024\240624a\Herb22_2024_04_12_mgL_ICAL21040.m
Quant Title : herb
QLast Update : Sun Jun 23 09:11:26 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 15%   Max. Rel. Area : 150%

Compound	AvgRF	CCRF	%Dev	Area% Dev(Min)

Signal #2

---

* Evaluation of CC level amount vs concentration.
(#) = Out of Range SPCC's out = 0 CCC's out = 0
(^) = ISTD area calculated using ICAL average

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest22\2024\240624a\
Data File : 22240624a-20.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 24 Jun 2024 16:07
Operator : pest22:peg
Sample : wg1938492-2,42,,herb11561 (Sig #1); herb11561 (Sig #2)
Misc : wg1938492,,ical21040
ALS Vial : 20 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 25 06:20:43 2024
Quant Method : I:\PEST\Pest22\2024\240624a\Herb22_2024_04_12_mgL_ICAL21040.m
Quant Title : herb
QLast Update : Sun Jun 23 09:11:26 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

		Compound	RT#1	RT#2	Resp#1	Resp#2	mg/l	mg/l
		Internal Standards						
1)	i	4,4'-DBOB	8.527	8.523	1169.7E6	1259.8E6	0.250M4	0.250M4
		System Monitoring Compounds						
3)	s	DCAA (surrog	6.983	7.452	195.6E6	203.8E6	0.203M4	0.200M4
		Spiked Amount 0.500	Range 30 - 150		Recovery =		40.60%	40.00%
		Target Compounds						
2)	t	Dalapon	2.382	2.381	156.9E6	158.1E6	0.159M4	0.159M4
4)	t	Dicamba	7.166	7.633	583.9E6	593.8E6	0.212M4	0.199M4
5)	t	MCPP	7.366	7.745	90343559	63464414	37.058M4	17.111M4
	D							
6)	t	MCPA	7.514	7.972	132.2E6	111.6E6	29.228M4	17.865M4
	D							
7)	t	Dichloroprop	7.870	8.290	184.0E6	193.4E6	0.204M4	0.200M4
8)	t	2,4-D	8.106	8.573	244.3E6	250.8E6	0.218	0.210M4
9)	t	2,4,5-TP (Si	8.809	9.226	855.1E6	904.4E6	0.211	0.210
10)	t	2,4,5-T	9.043	9.520	895.2E6	828.1E6	0.224M4	0.198
11)	t	2,4-DB	9.452	9.882	124.8E6	147.2E6	0.202M4	0.208
12)	t	Dinoseb	10.180	10.098	606.5E6	528.8E6	0.263M4	0.214

SemiQuant Compounds - Not Calibrated on this Instrument

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest22\2024\240624a\
Data File : 22240624a-20.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 24 Jun 2024 16:07
Operator : pest22:peg
Sample : wg1938492-2,42,,herb11561 (Sig #1); herb11561 (Sig #2)
Misc : wg1938492,,ical21040
ALS Vial : 20 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 25 06:20:43 2024
Quant Method : I:\PEST\Pest22\2024\240624a\Herb22_2024_04_12_mgL_ICAL21040.m
Quant Title : herb
QLast Update : Sun Jun 23 09:11:26 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	mg/l	mg/l

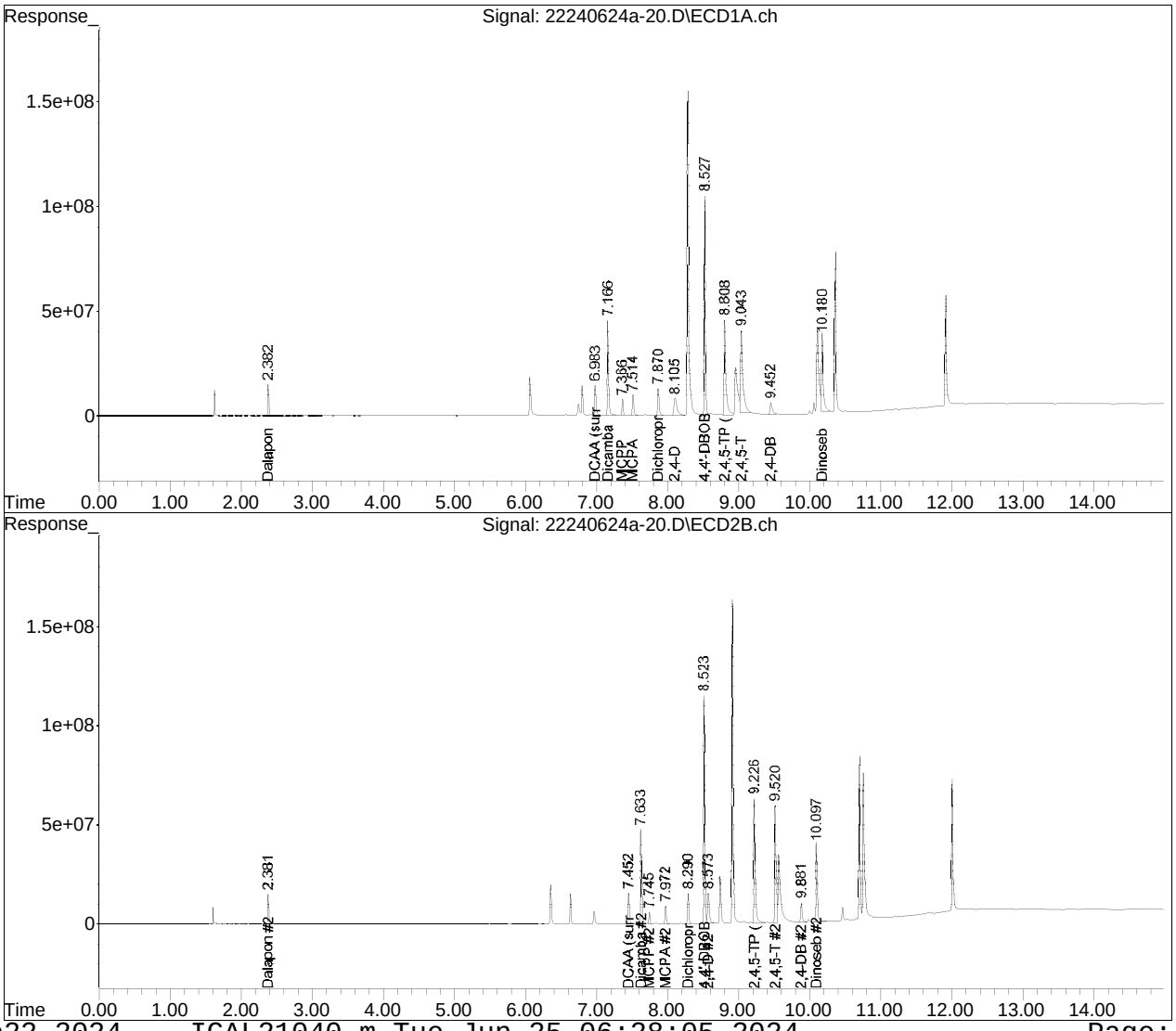
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest22\2024\240624a\
Data File : 22240624a-20.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 24 Jun 2024 16:07
Operator : pest22:peg
Sample : wg1938492-2,42,,herb11561 (Sig #1); herb11561 (Sig #2)
Misc : wg1938492,,ical21040
ALS Vial : 20 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 25 06:20:43 2024
Quant Method : I:\PEST\Pest22\2024\240624a\Herb22_2024_04_12_mgL_ICAL21040.m
Quant Title : herb
QLast Update : Sun Jun 23 09:11:26 2024
Response via : Initial Calibration
Integrator: ChemStation

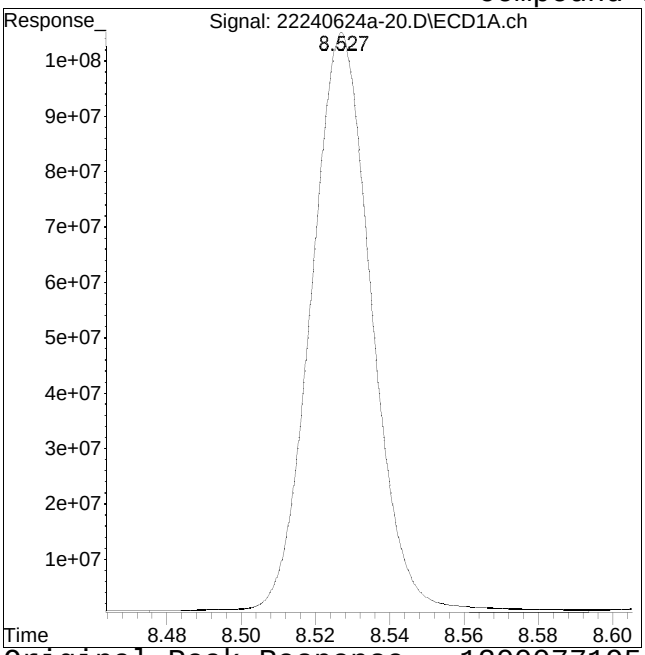
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

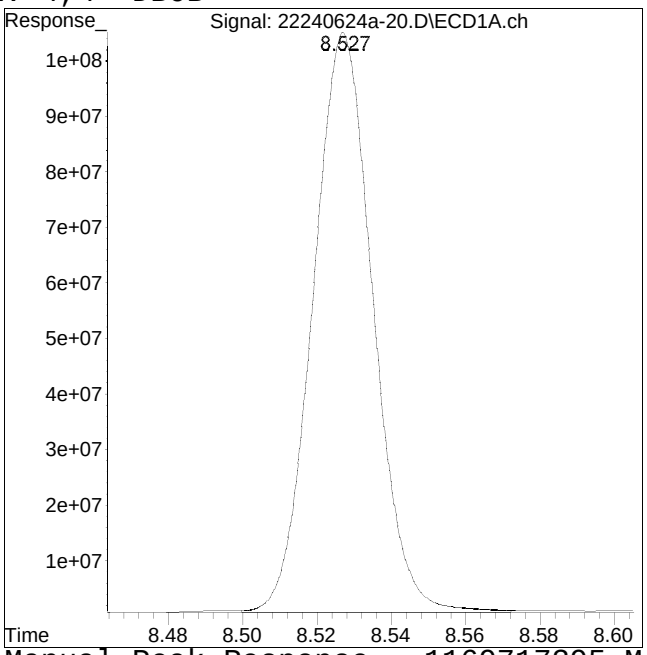


Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240624QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240624a-20.D Operator : pest22:peg
Date Inj'd : 6/24/2024 16:07 Instrument : Pest22
Sample : wg1938492-2,42,,herb11561 Quant Date : 6/25/2024 6:20 am

Compound #1: 4,4'-DBOB



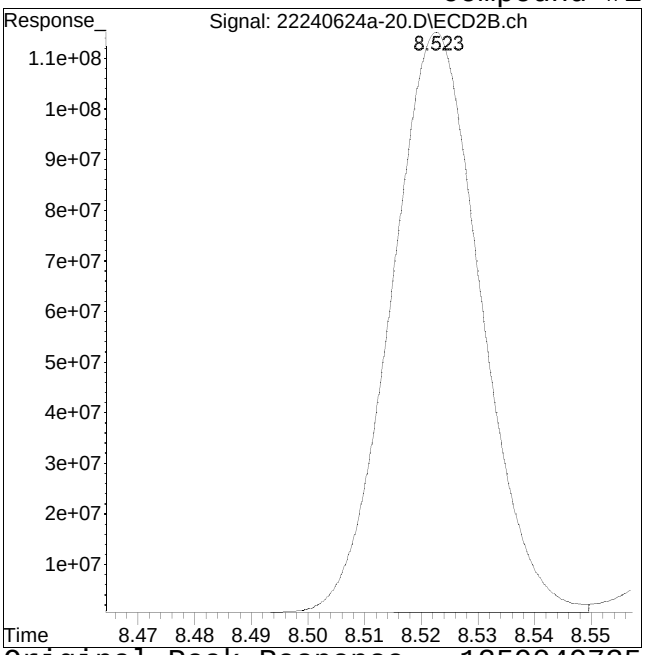


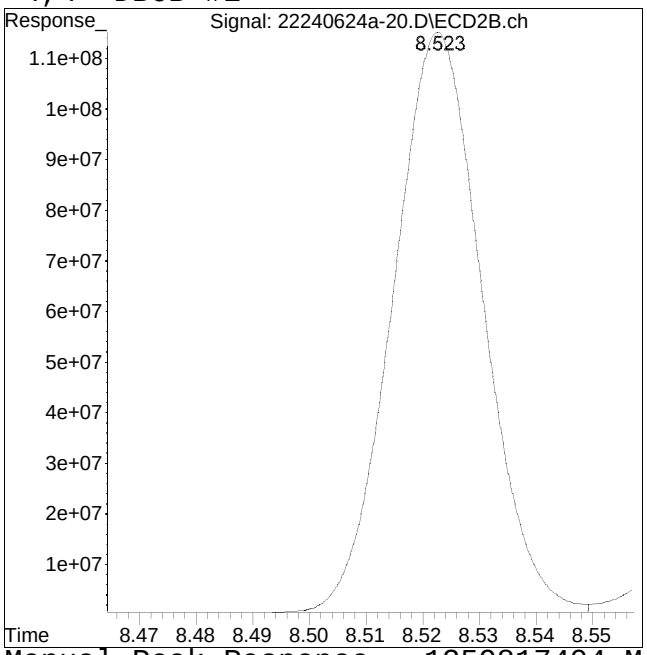
Original Peak Response = 1200077195 Manual Peak Response = 1169717395 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240624QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240624a-20.D Operator : pest22:peg
Date Inj'd : 6/24/2024 16:07 Instrument : Pest22
Sample : wg1938492-2,42,,herb11561 Quant Date : 6/25/2024 6:20 am

Compound #14: 4,4'-DBOB #2



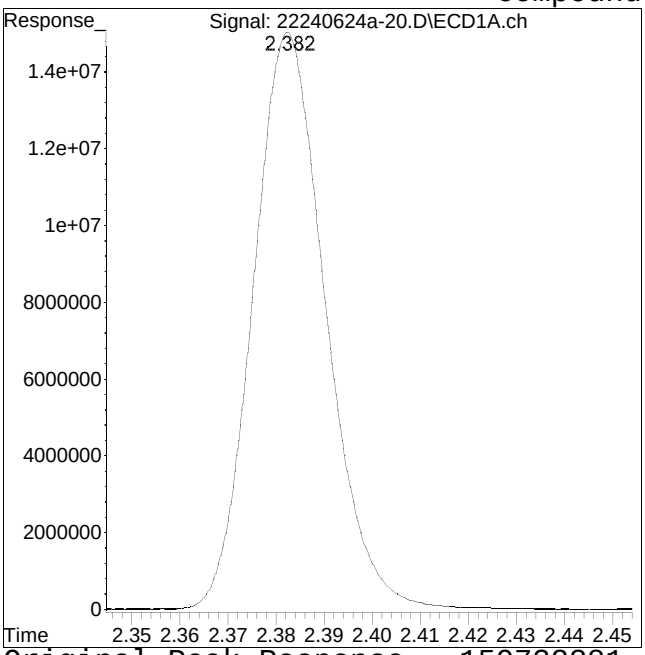


Original Peak Response = 1259049735 Manual Peak Response = 1259817404 M4
M4 = Poor automated baseline construction.

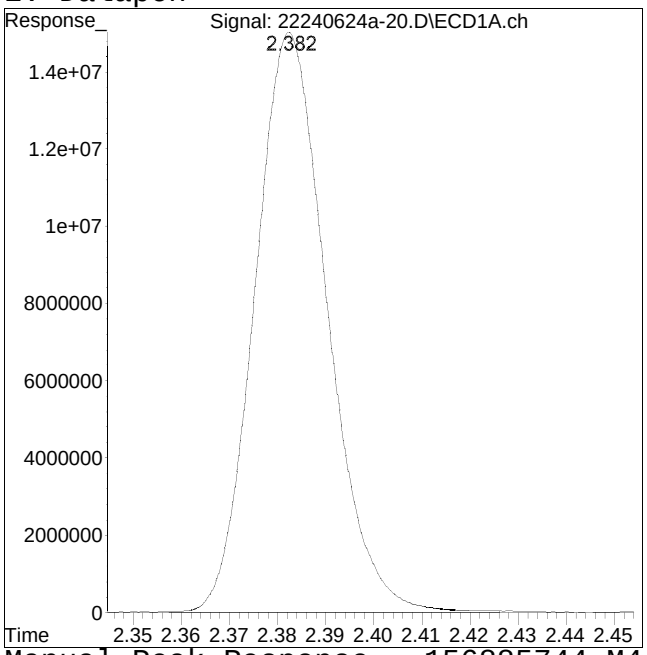
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240624QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240624a-20.D Operator : pest22:peg
Date Inj'd : 6/24/2024 16:07 Instrument : Pest22
Sample : wg1938492-2,42,,herb11561 Quant Date : 6/25/2024 6:20 am

Compound #2: Dalapon



Original Peak Response = 159732381



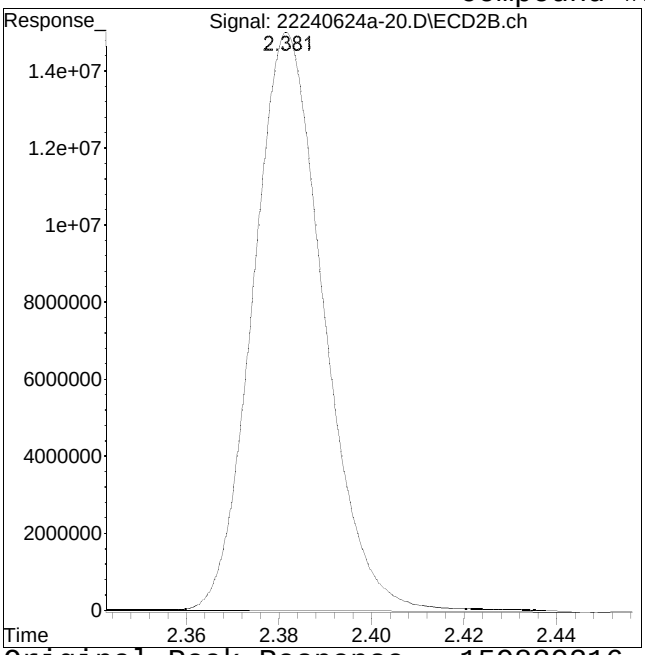
Manual Peak Response = 156885744 M4

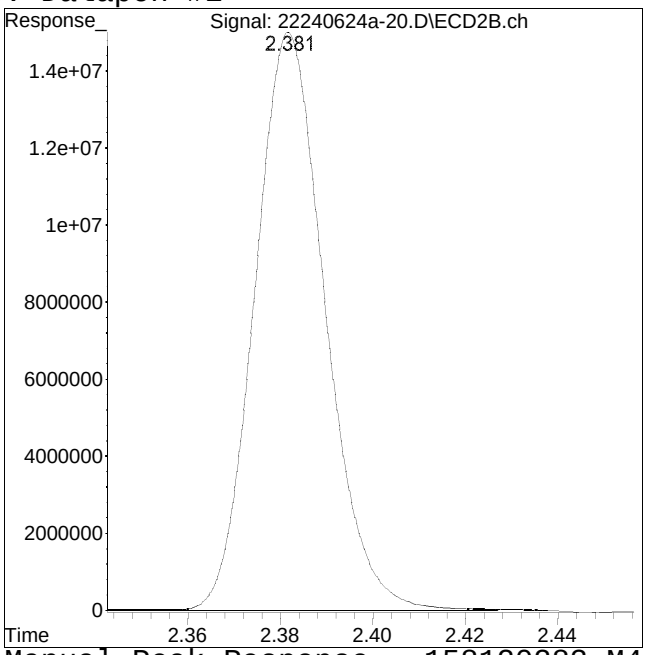
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240624QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240624a-20.D Operator : pest22:peg
Date Inj'd : 6/24/2024 16:07 Instrument : Pest22
Sample : wg1938492-2,42,,herb11561 Quant Date : 6/25/2024 6:20 am

Compound #15: Dalapon #2



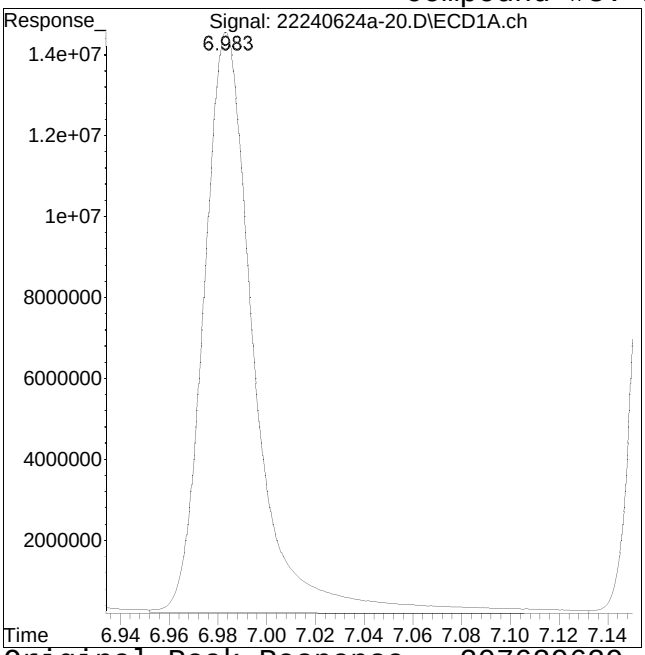


Original Peak Response = 159839316 Manual Peak Response = 158120283 M4
M4 = Poor automated baseline construction.

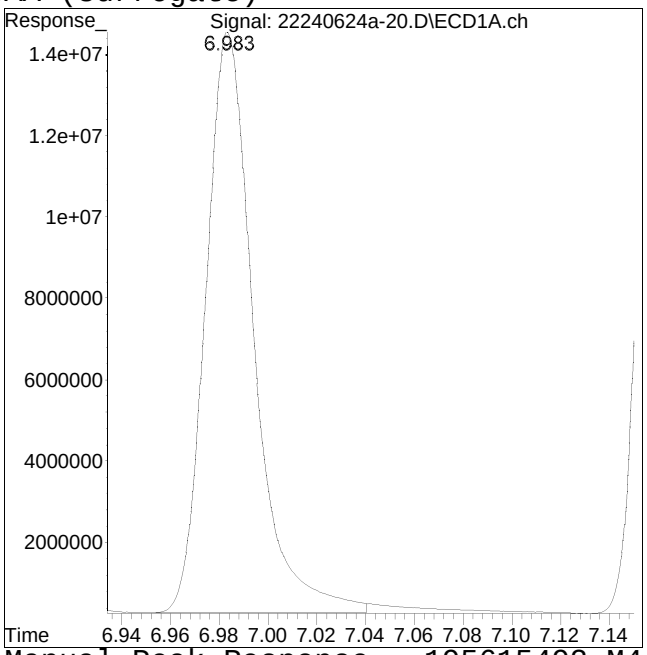
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240624QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240624a-20.D Operator : pest22:peg
Date Inj'd : 6/24/2024 16:07 Instrument : Pest22
Sample : wg1938492-2,42,,herb11561 Quant Date : 6/25/2024 6:20 am

Compound #3: DCAA (surrogate)



Original Peak Response = 207629629



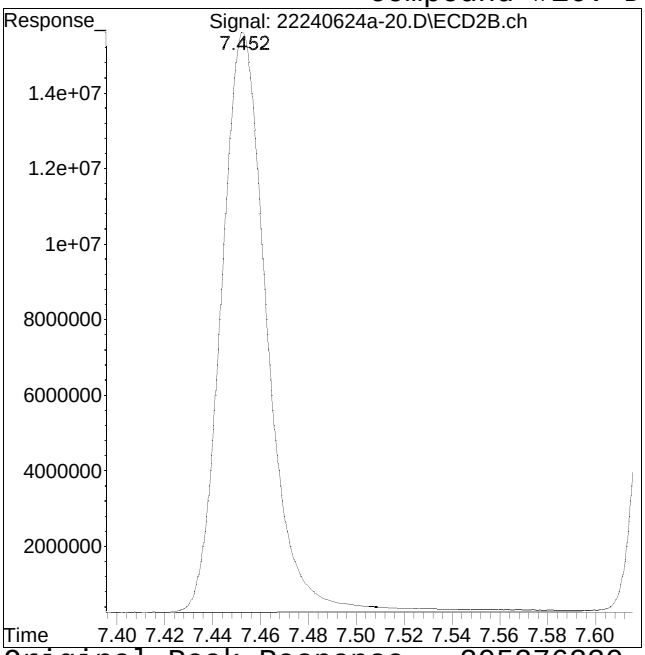
Manual Peak Response = 195615492 M4

M4 = Poor automated baseline construction.

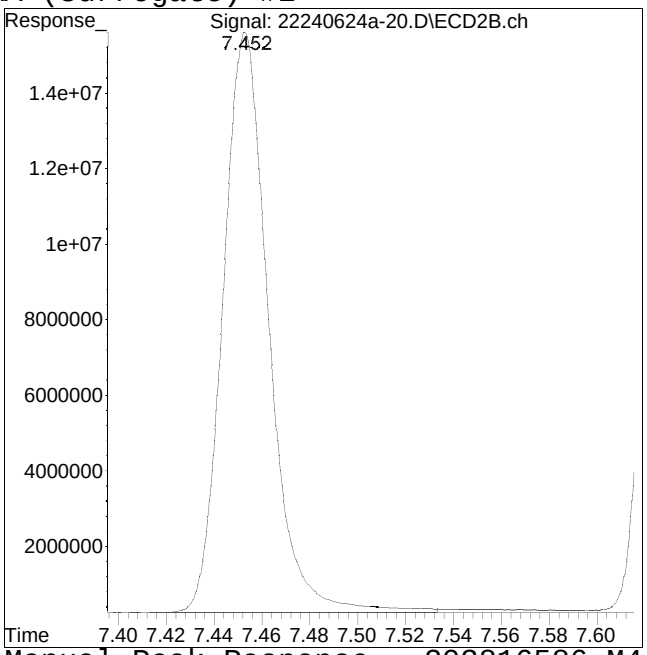
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240624QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240624a-20.D Operator : pest22:peg
Date Inj'd : 6/24/2024 16:07 Instrument : Pest22
Sample : wg1938492-2,42,,herb11561 Quant Date : 6/25/2024 6:20 am

Compound #16: DCAA (surrogate) #2



Original Peak Response = 205276330



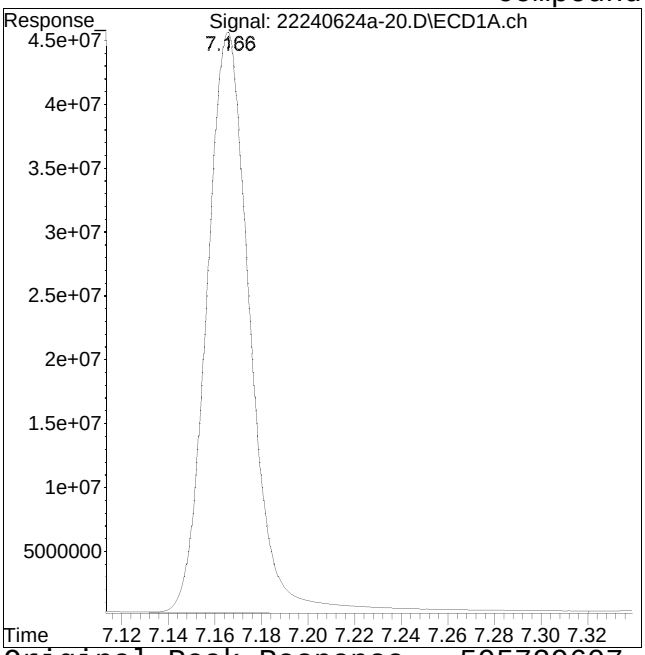
Manual Peak Response = 203816586 M4

M4 = Poor automated baseline construction.

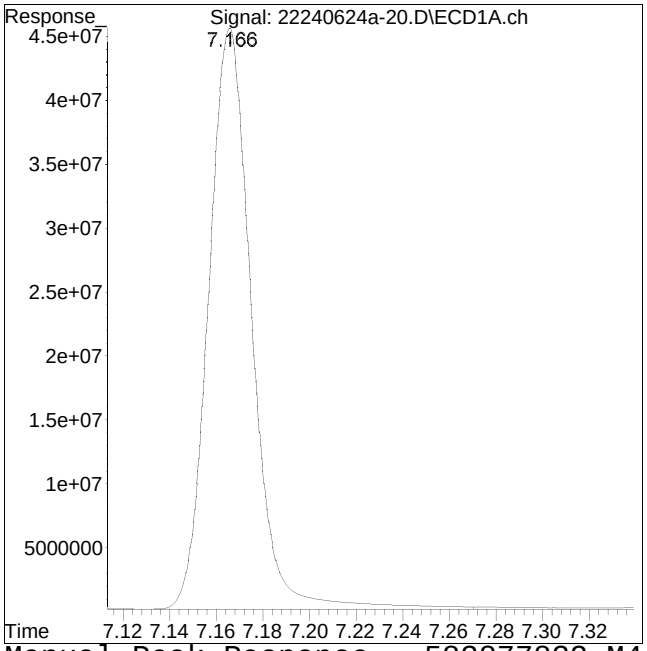
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240624QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240624a-20.D Operator : pest22:peg
Date Inj'd : 6/24/2024 16:07 Instrument : Pest22
Sample : wg1938492-2,42,,herb11561 Quant Date : 6/25/2024 6:20 am

Compound #4: Dicamba



Original Peak Response = 595729607



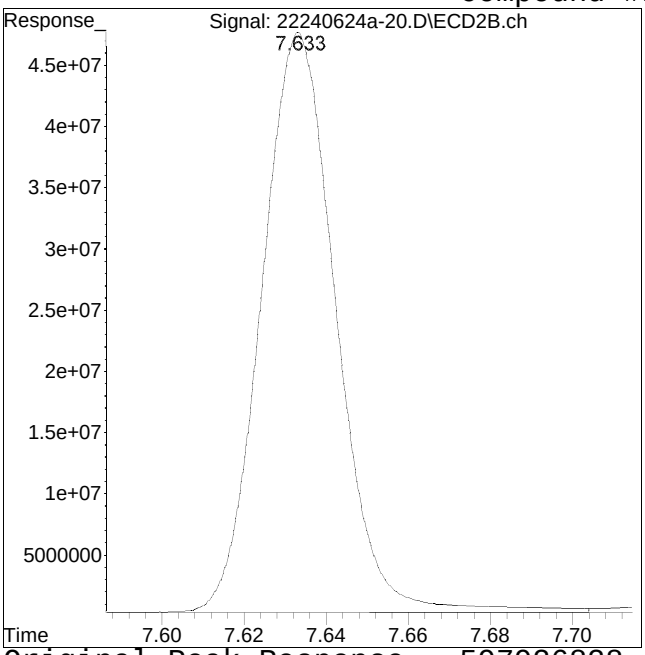
Manual Peak Response = 583877832 M4

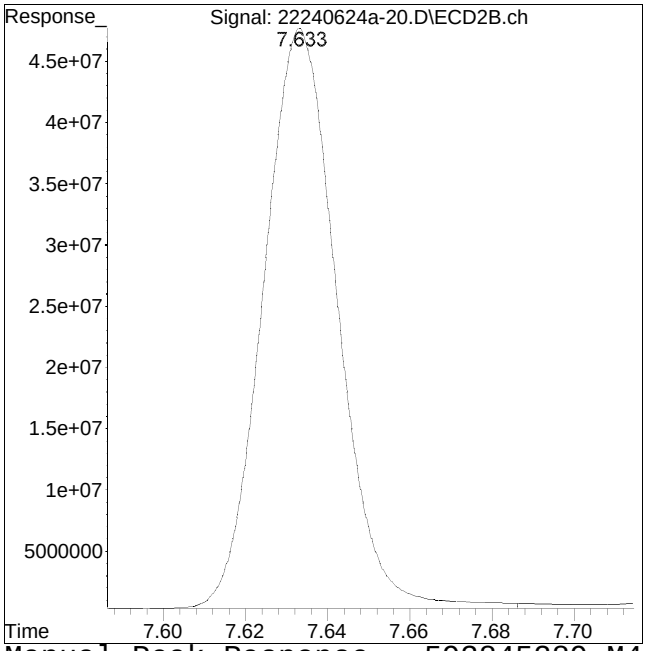
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240624QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240624a-20.D Operator : pest22:peg
Date Inj'd : 6/24/2024 16:07 Instrument : Pest22
Sample : wg1938492-2,42,,herb11561 Quant Date : 6/25/2024 6:20 am

Compound #17: Dicamba #2



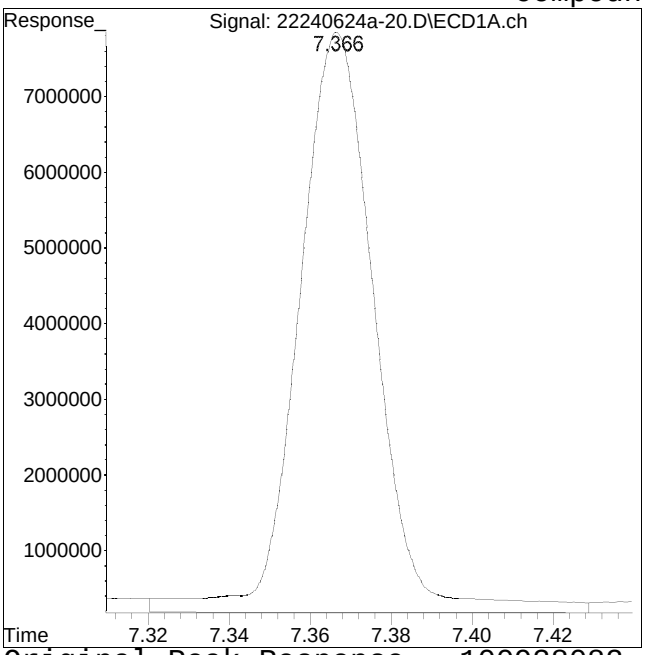


Original Peak Response = 597926828 Manual Peak Response = 593845289 M4
M4 = Poor automated baseline construction.

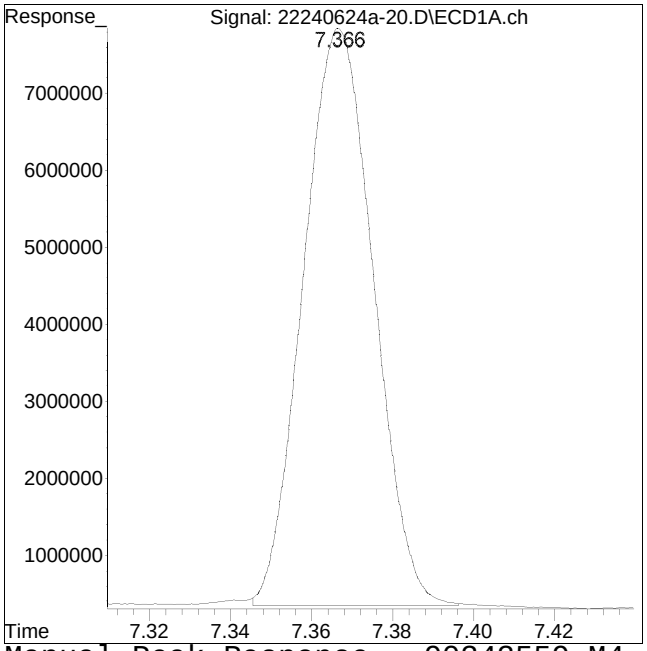
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240624QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240624a-20.D Operator : pest22:peg
Date Inj'd : 6/24/2024 16:07 Instrument : Pest22
Sample : wg1938492-2,42,,herb11561 Quant Date : 6/25/2024 6:20 am

Compound #5: MCPP



Original Peak Response = 100938082



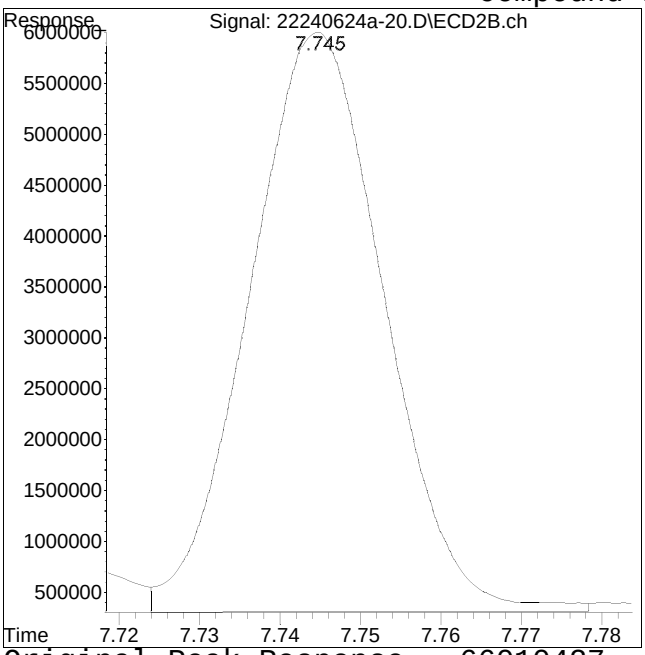
Manual Peak Response = 90343559 M4

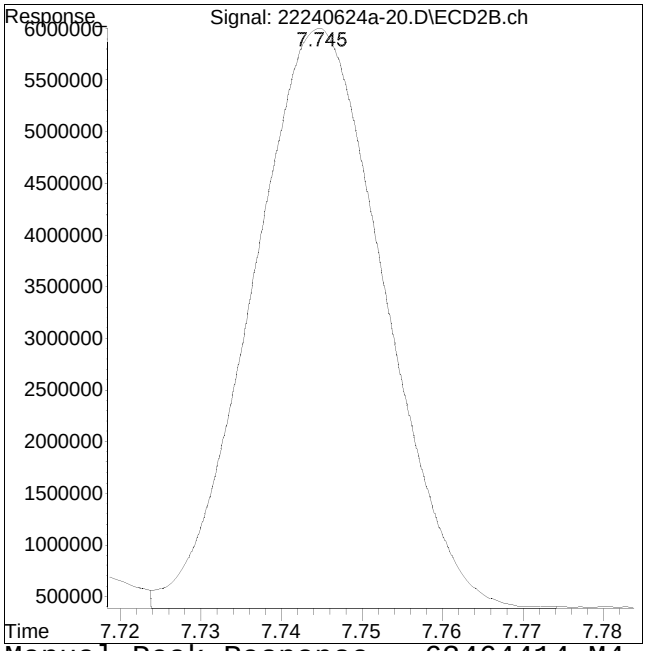
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240624QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240624a-20.D Operator : pest22:peg
Date Inj'd : 6/24/2024 16:07 Instrument : Pest22
Sample : wg1938492-2,42,,herb11561 Quant Date : 6/25/2024 6:20 am

Compound #18: MCPP #2



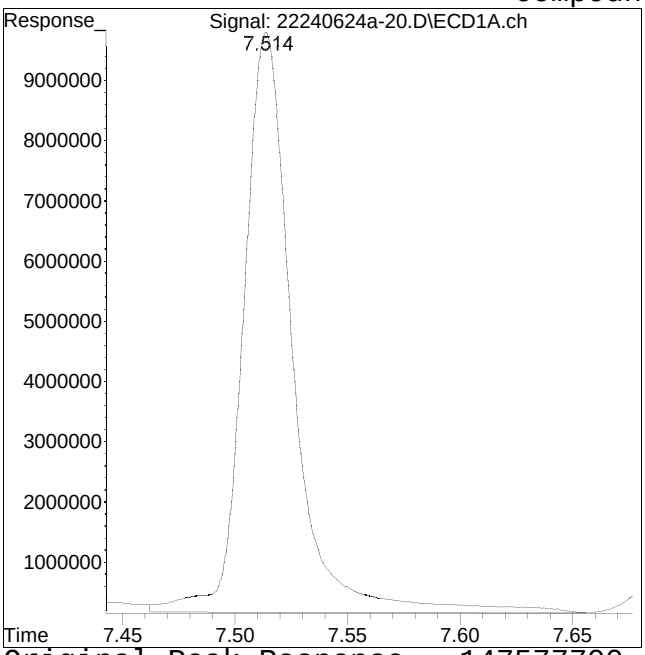


Original Peak Response = 66010427 Manual Peak Response = 63464414 M4
M4 = Poor automated baseline construction.

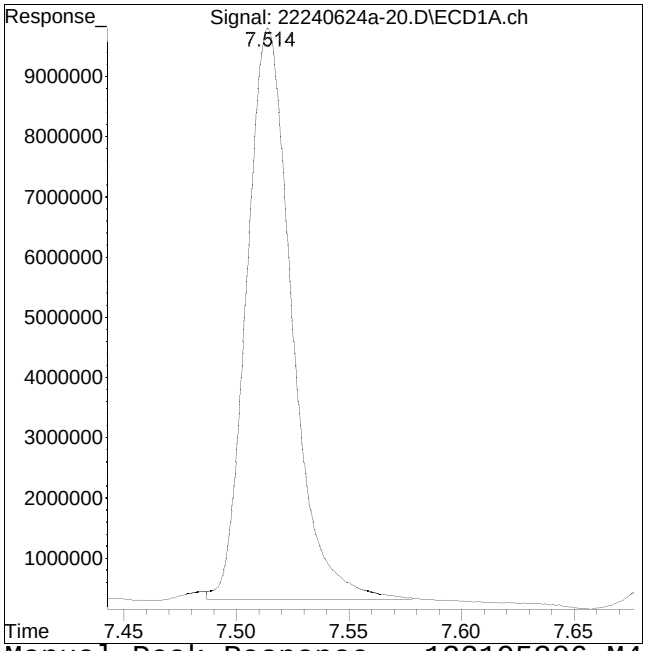
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240624QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240624a-20.D Operator : pest22:peg
Date Inj'd : 6/24/2024 16:07 Instrument : Pest22
Sample : wg1938492-2,42,,herb11561 Quant Date : 6/25/2024 6:20 am

Compound #6: MCPA



Original Peak Response = 147577700

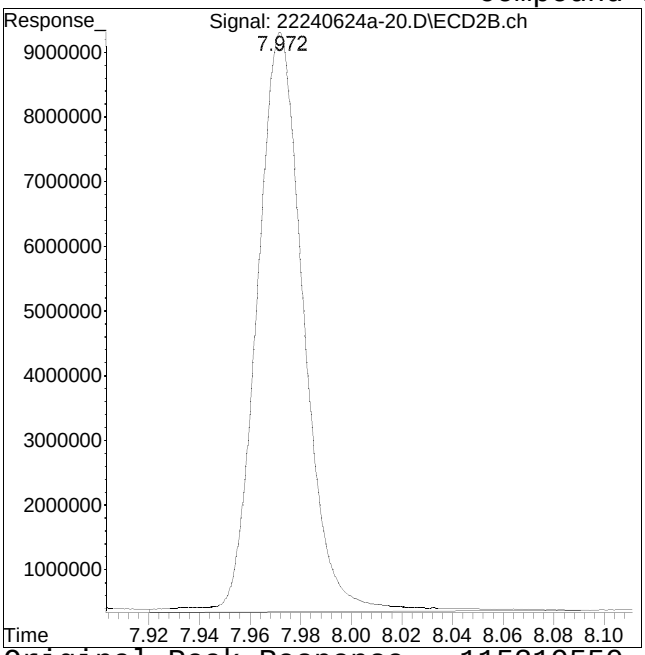


Manual Peak Response = 132195386 M4
M4 = Poor automated baseline construction.

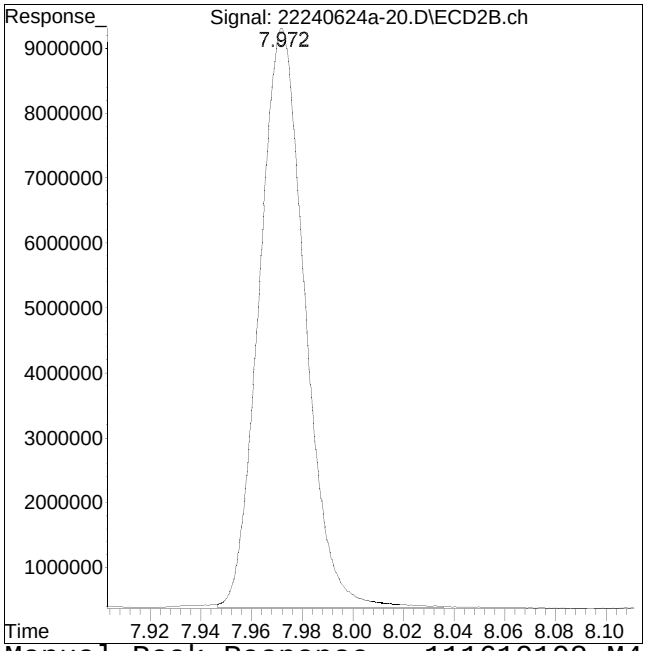
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240624QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240624a-20.D Operator : pest22:peg
Date Inj'd : 6/24/2024 16:07 Instrument : Pest22
Sample : wg1938492-2,42,,herb11561 Quant Date : 6/25/2024 6:20 am

Compound #19: MCPA #2



Original Peak Response = 115319550



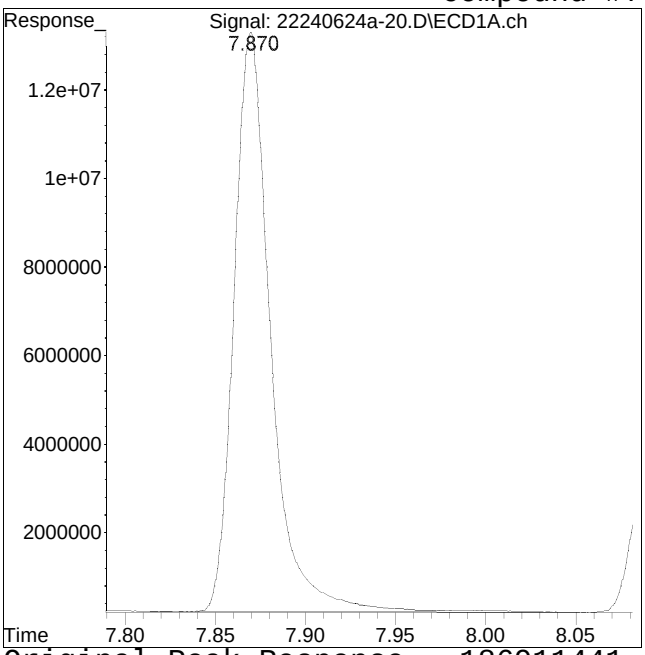
Manual Peak Response = 111610108 M4

M4 = Poor automated baseline construction.

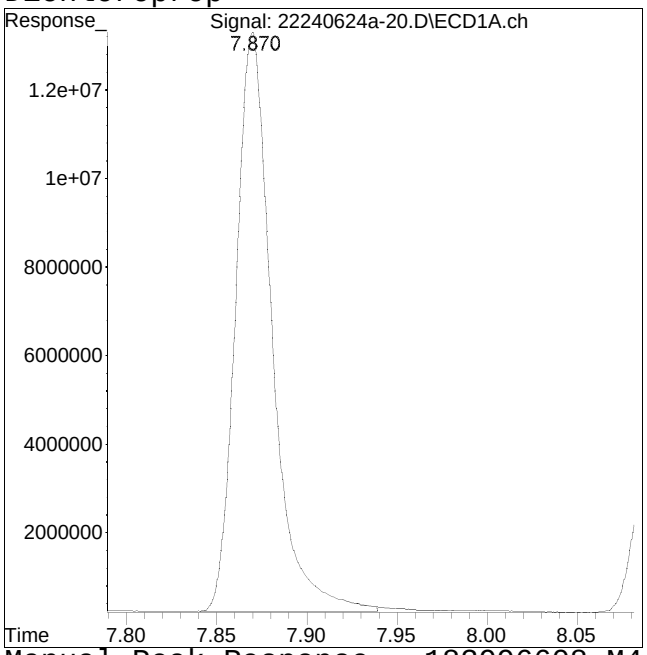
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240624QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240624a-20.D Operator : pest22:peg
Date Inj'd : 6/24/2024 16:07 Instrument : Pest22
Sample : wg1938492-2,42,,herb11561 Quant Date : 6/25/2024 6:20 am

Compound #7: Dichloroprop



Original Peak Response = 186911441



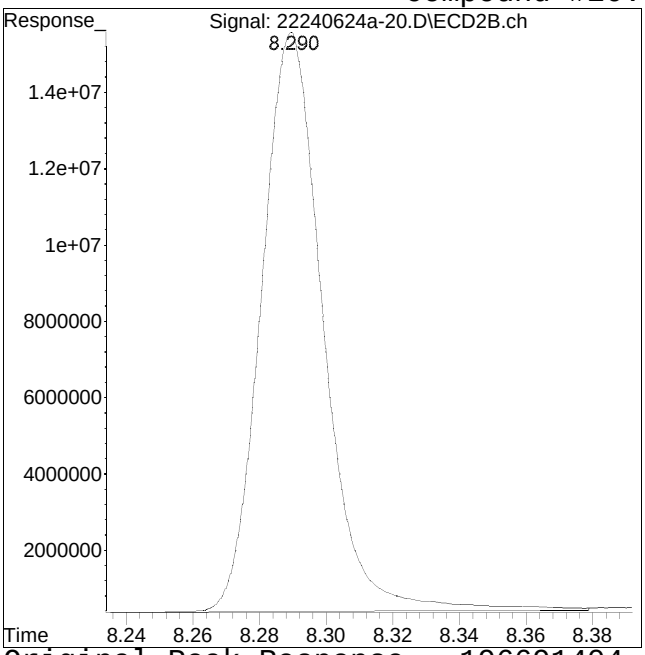
Manual Peak Response = 183996608 M4

M4 = Poor automated baseline construction.

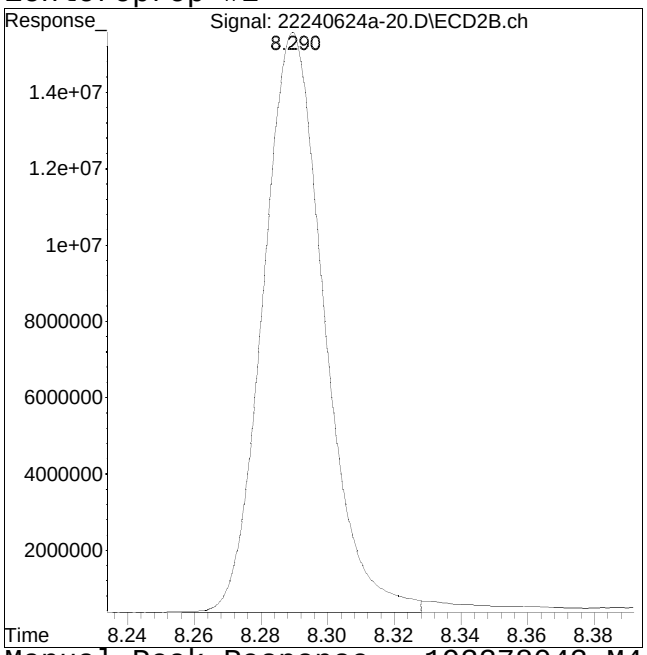
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240624QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240624a-20.D Operator : pest22:peg
Date Inj'd : 6/24/2024 16:07 Instrument : Pest22
Sample : wg1938492-2,42,,herb11561 Quant Date : 6/25/2024 6:20 am

Compound #20: Dichloroprop #2



Original Peak Response = 196691404



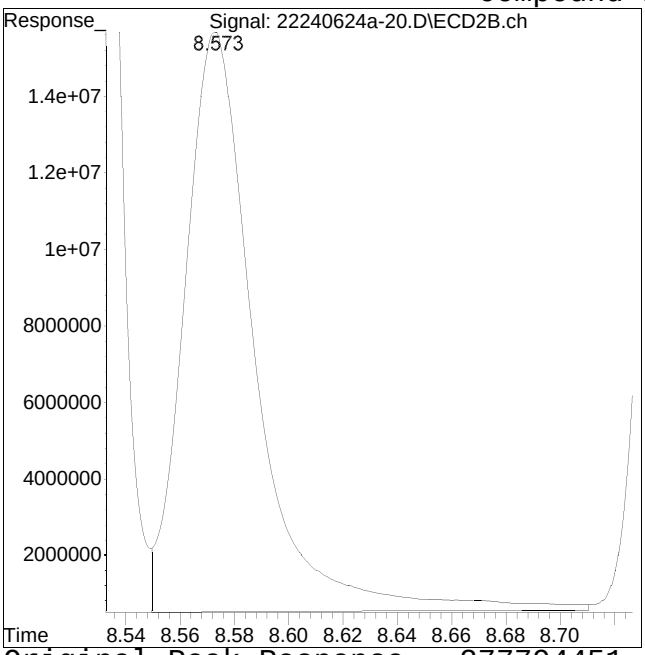
Manual Peak Response = 193378043 M4

M4 = Poor automated baseline construction.

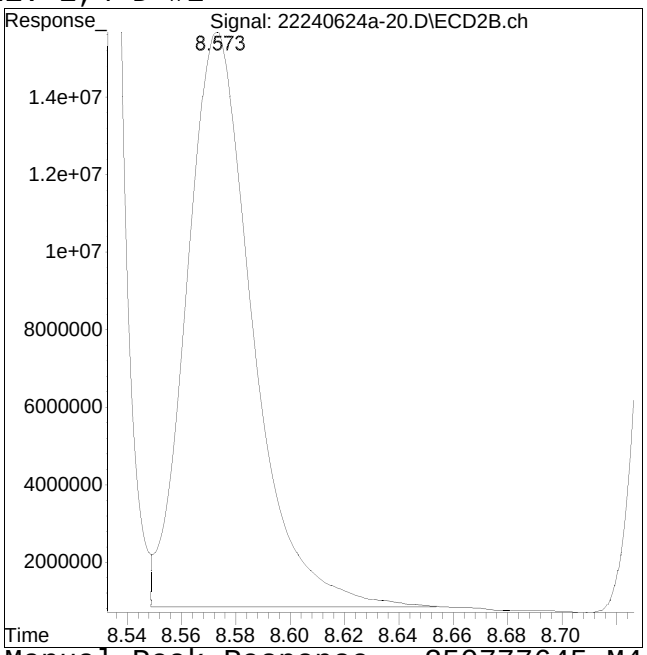
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240624QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240624a-20.D Operator : pest22:peg
Date Inj'd : 6/24/2024 16:07 Instrument : Pest22
Sample : wg1938492-2,42,,herb11561 Quant Date : 6/25/2024 6:20 am

Compound #21: 2,4-D #2



Original Peak Response = 277794451



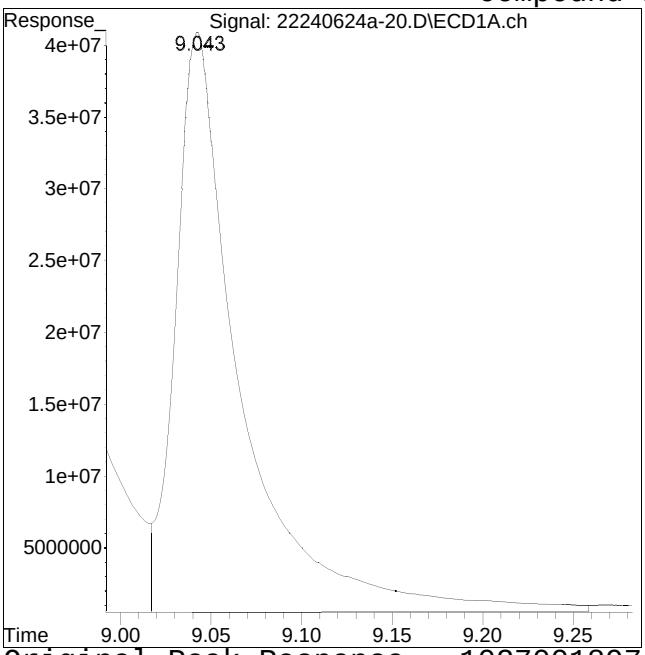
Manual Peak Response = 250777645 M4

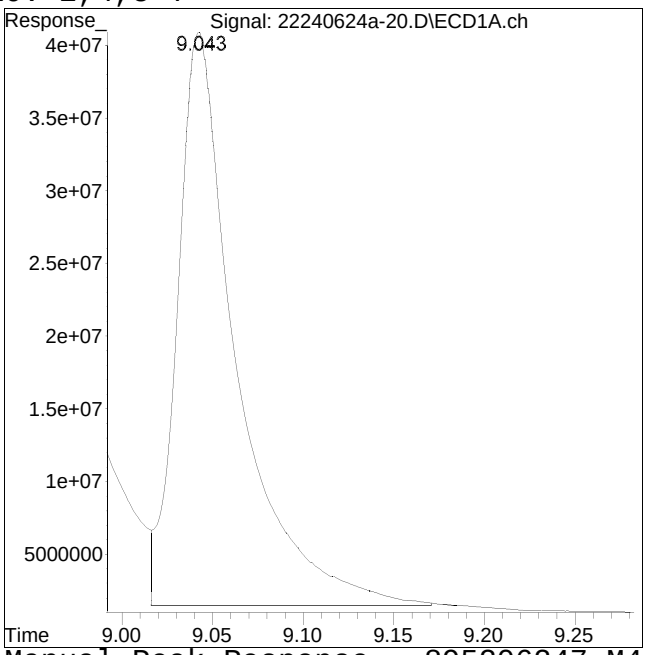
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240624QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240624a-20.D Operator : pest22:peg
Date Inj'd : 6/24/2024 16:07 Instrument : Pest22
Sample : wg1938492-2,42,,herb11561 Quant Date : 6/25/2024 6:20 am

Compound #10: 2,4,5-T



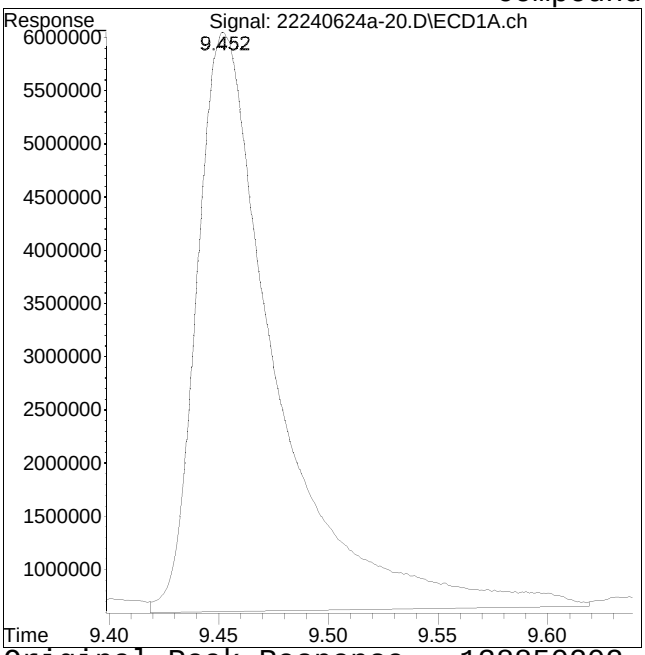


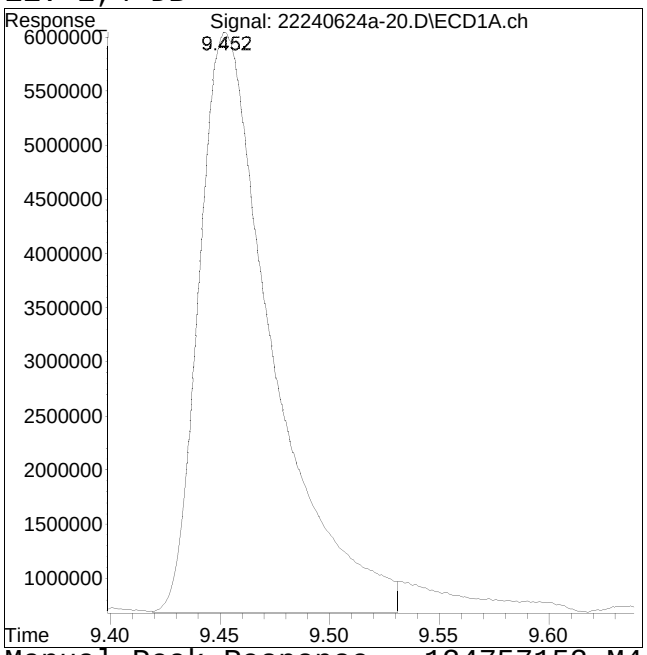
Original Peak Response = 1027001897 Manual Peak Response = 895206247 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240624QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240624a-20.D Operator : pest22:peg
Date Inj'd : 6/24/2024 16:07 Instrument : Pest22
Sample : wg1938492-2,42,,herb11561 Quant Date : 6/25/2024 6:20 am

Compound #11: 2,4-DB



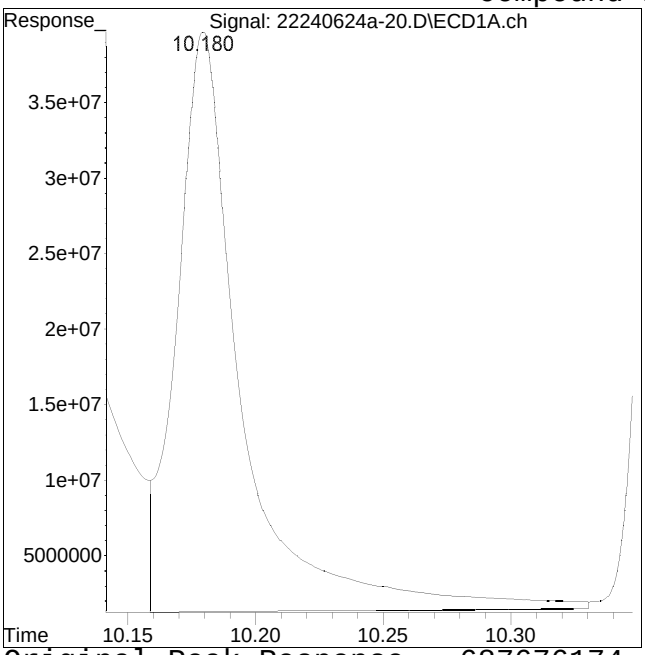


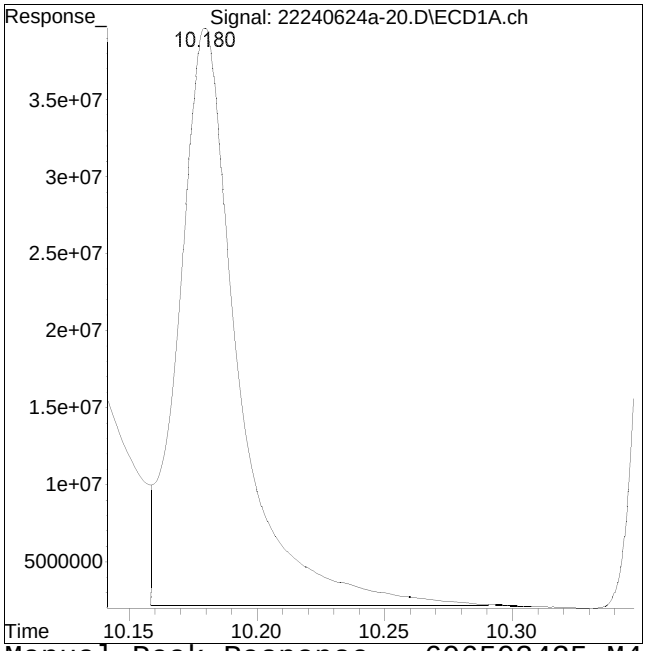
Original Peak Response = 138850202 Manual Peak Response = 124757152 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240624QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240624a-20.D Operator : pest22:peg
Date Inj'd : 6/24/2024 16:07 Instrument : Pest22
Sample : wg1938492-2,42,,herb11561 Quant Date : 6/25/2024 6:20 am

Compound #12: Dinoseb





Original Peak Response = 687676174 Manual Peak Response = 606503435 M4
M4 = Poor automated baseline construction.

Evaluate Continuing Calibration Report

Data Path : I:\PEST\Pest22\2024\240624a\
Data File : 22240624a-36.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On   : 24 Jun 2024 23:51
Operator : pest22:peg
Sample   : wg1938492-3,42,,herb11561 (Sig #1); herb11561 (Sig #2)
Misc   : wg1938492,,ical21040
ALS Vial : 36   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 25 06:09:35 2024
Quant Method : I:\PEST\Pest22\2024\240624a\Herb22_2024_04_12_mgL_ICAL21040.m
Quant Title : herb
QLast Update : Sun Jun 23 09:11:26 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 15%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
1	i	4,4'-DBOB	^	1.000	1.000	0.0	124	-0.01
2	t	Dalapon		0.211	0.201	4.7	112	-0.01
3	s	DCAA (surrogate)		0.206	0.227	-10.2	128	-0.01
4	t	Dicamba		0.589	0.658	-11.7	128	-0.01
5	t	MCPP		0.00052	0.00101	-94.2#	225#	-0.01
6	t	MCPA		0.00097	0.00169	-74.2#	203#	-0.01
7	t	Dichloroprop		0.193	0.208	-7.8	123	-0.01
8	t	2,4-D		0.240	0.274	-14.2	131	0.02
9	t	2,4,5-TP (Silvex)		0.868	0.949	-9.3	125	0.00
10	t	2,4,5-T		0.853	0.946	-10.9	128	0.02
11	t	2,4-DB		0.132	0.136	-3.0	119	0.03
12	t	Dinoseb		0.493	0.737	-49.5#	173#	0.00

Signal #2

1	i	4,4'-DBOB	^	1.000	1.000	0.0	147	0.00
2	t	Dalapon		0.197	0.184	6.6	130	0.00
3	s	DCAA (surrogate)		0.203	0.215	-5.9	146	0.00
4	t	Dicamba		0.594	0.625	-5.2	146	0.00
5	t	MCPP		0.00074	0.00063	14.9	121	0.00
6	t	MCPA		0.00124	0.00118	4.8	133	0.00
7	t	Dichloroprop		0.192	0.204	-6.2	146	0.00
8	t	2,4-D		0.237	0.264	-11.4	155#	0.01
9	t	2,4,5-TP (Silvex)		0.856	0.955	-11.6	154#	0.00
10	t	2,4,5-T		0.831	0.841	-1.2	141	0.01
11	t	2,4-DB		0.141	0.143	-1.4	142	0.02
12	t	Dinoseb		0.491	0.534	-8.8	152#	0.00

Evaluate Continuing Calibration Report - Not Founds

Evaluate Continuing Calibration Report

Data Path : I:\PEST\Pest22\2024\240624a\
Data File : 22240624a-36.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On   : 24 Jun 2024 23:51
Operator : pest22:peg
Sample   : wg1938492-3,42,,herb11561 (Sig #1); herb11561 (Sig #2)
Misc   : wg1938492,,ical21040
ALS Vial : 36   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 25 06:09:35 2024
Quant Method : I:\PEST\Pest22\2024\240624a\Herb22_2024_04_12_mgL_ICAL21040.m
Quant Title : herb
QLast Update : Sun Jun 23 09:11:26 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 15%   Max. Rel. Area : 150%

Compound	AvgRF	CCRF	%Dev	Area% Dev(Min)

Signal #2

---

* Evaluation of CC level amount vs concentration.
(#) = Out of Range SPCC's out = 0 CCC's out = 0
(^) = ISTD area calculated using ICAL average

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest22\2024\240624a\
Data File : 22240624a-36.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 24 Jun 2024 23:51
Operator : pest22:peg
Sample : wg1938492-3,42,,herb11561 (Sig #1); herb11561 (Sig #2)
Misc : wg1938492,,ical21040
ALS Vial : 36 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 25 06:09:35 2024
Quant Method : I:\PEST\Pest22\2024\240624a\Herb22_2024_04_12_mgL_ICAL21040.m
Quant Title : herb
QLast Update : Sun Jun 23 09:11:26 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

		Compound	RT#1	RT#2	Resp#1	Resp#2	mg/l	mg/l
		Internal Standards						
1)	i	4,4'-DBOB	8.527	8.523	921.0E6	1001.8E6	0.250M4	0.250M4
		System Monitoring Compounds						
3)	s	DCAA (surrog	6.984	7.453	157.2E6	161.9E6	0.207M4	0.199M4
		Spiked Amount 0.500	Range 30 - 150		Recovery =		41.40%	39.80%
		Target Compounds						
2)	t	Dalapon	2.382	2.382	134.6E6	134.1E6	0.173M4	0.170M4
4)	t	Dicamba	7.166	7.634	455.7E6	470.7E6	0.210M4	0.198M4
5)	t	MCPP D	7.367	7.745	70005093	47647072	36.468M4	16.155M4
6)	t	MCPA D	7.514	7.972	116.1E6	88297511	32.591M4	17.773M4
7)	t	Dichloroprop	7.870	8.290	144.4E6	154.0E6	0.203M4	0.200M4
8)	t	2,4-D	8.118f	8.578	189.7E6	198.6E6	0.215M4	0.209M4
9)	t	2,4,5-TP (Si	8.814	9.229	664.1E6	726.8E6	0.208M4	0.212M4
10)	t	2,4,5-T	9.054f	9.526	662.3E6	640.2E6	0.211M2	0.192M4
11)	t	2,4-DB	9.467f	9.889f	96542386	110.2E6	0.198M4	0.195M4
12)	t	Dinoseb	10.182	10.100	516.0E6	406.9E6	0.284M4	0.207
		SemiQuant Compounds - Not Calibrated on this Instrument						

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest22\2024\240624a\
Data File : 22240624a-36.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 24 Jun 2024 23:51
Operator : pest22:peg
Sample : wg1938492-3,42,,herb11561 (Sig #1); herb11561 (Sig #2)
Misc : wg1938492,,ical21040
ALS Vial : 36 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 25 06:09:35 2024
Quant Method : I:\PEST\Pest22\2024\240624a\Herb22_2024_04_12_mgL_ICAL21040.m
Quant Title : herb
QLast Update : Sun Jun 23 09:11:26 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	mg/l	mg/l

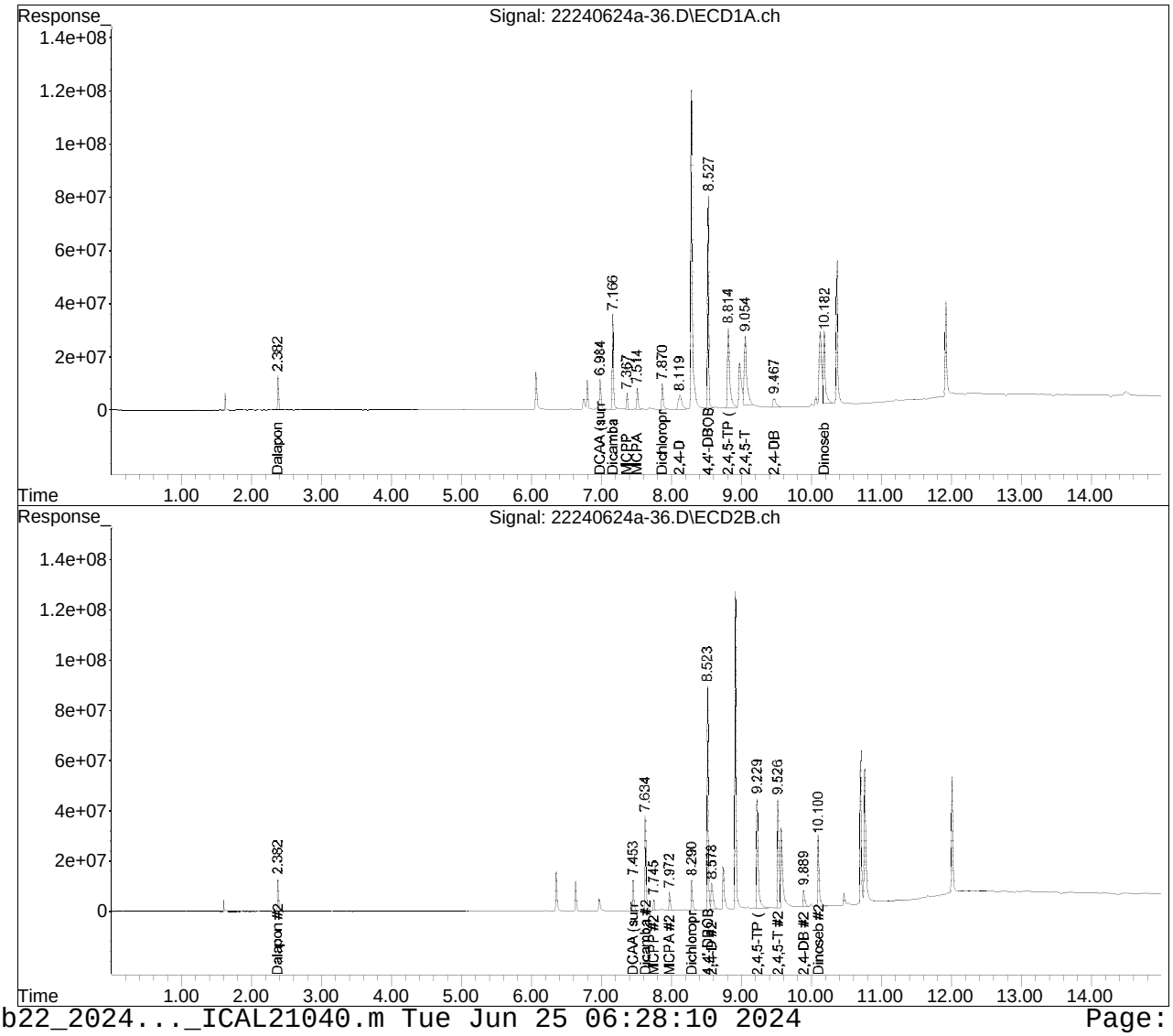
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest22\2024\240624a\
Data File : 22240624a-36.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 24 Jun 2024 23:51
Operator : pest22:peg
Sample : wg1938492-3,42,,herb11561 (Sig #1); herb11561 (Sig #2)
Misc : wg1938492,,ical21040
ALS Vial : 36 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 25 06:09:35 2024
Quant Method : I:\PEST\Pest22\2024\240624a\Herb22_2024_04_12_mgL_ICAL21040.m
Quant Title : herb
QLast Update : Sun Jun 23 09:11:26 2024
Response via : Initial Calibration
Integrator: ChemStation

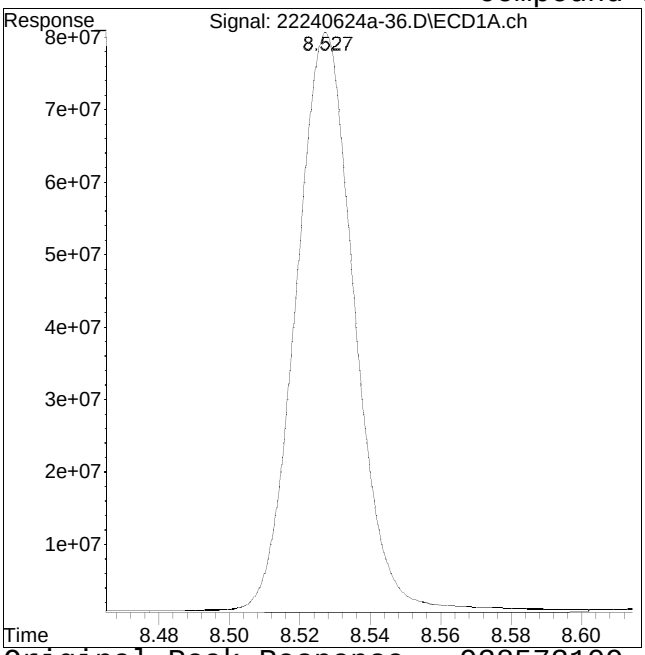
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

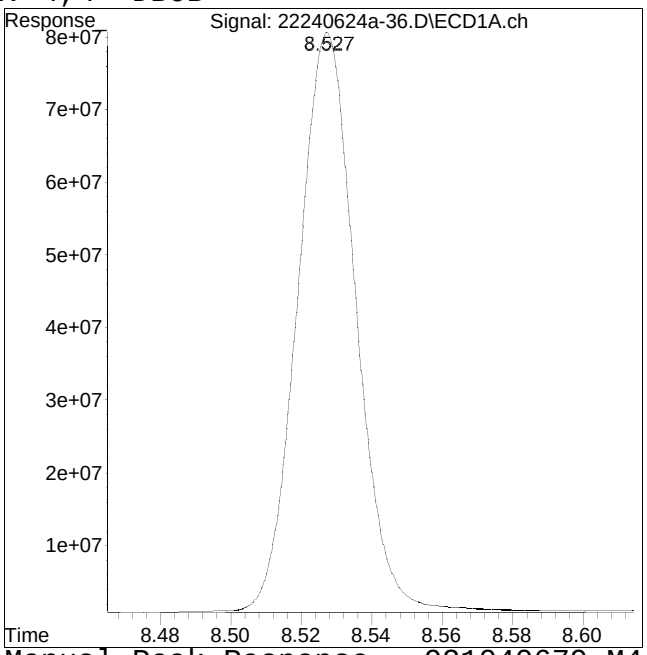


Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240624QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240624a-36.D Operator : pest22:peg
Date Inj'd : 6/24/2024 23:51 Instrument : Pest22
Sample : wg1938492-3,42,,herb11561 Quant Date : 6/25/2024 6:09 am

Compound #1: 4,4'-DBOB



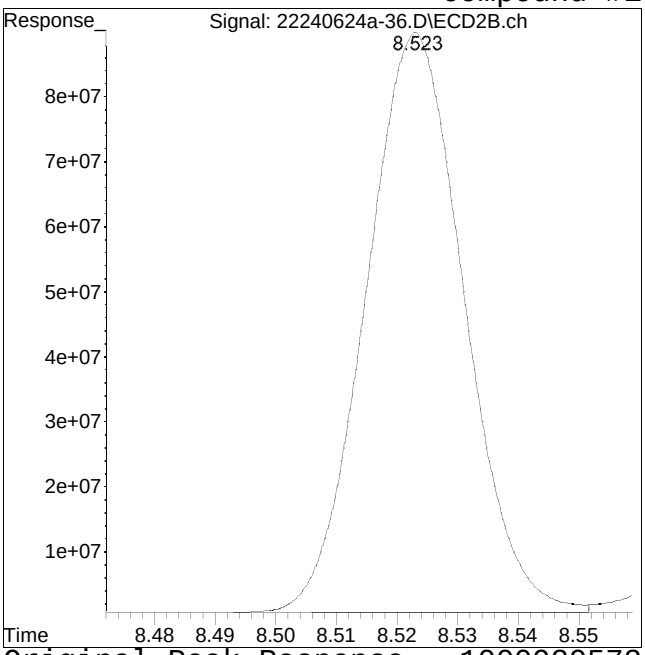


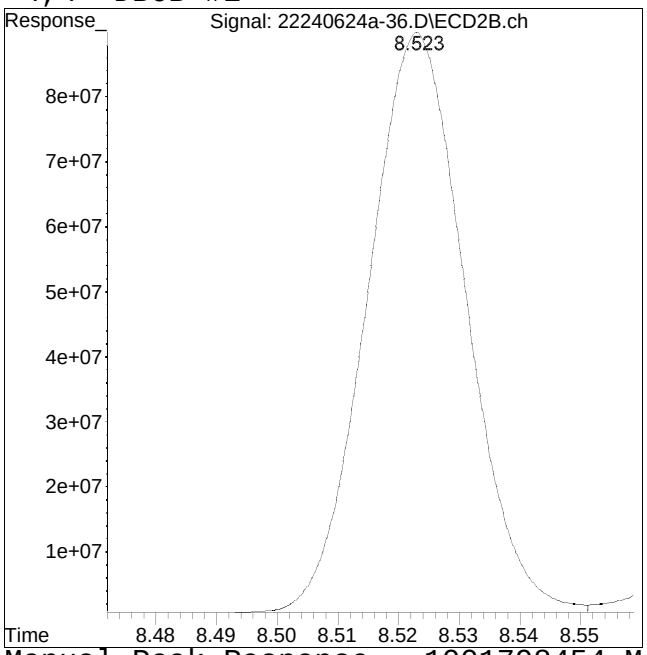
Original Peak Response = 938573109 Manual Peak Response = 921040679 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240624QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240624a-36.D Operator : pest22:peg
Date Inj'd : 6/24/2024 23:51 Instrument : Pest22
Sample : wg1938492-3,42,,herb11561 Quant Date : 6/25/2024 6:09 am

Compound #14: 4,4'-DBOB #2



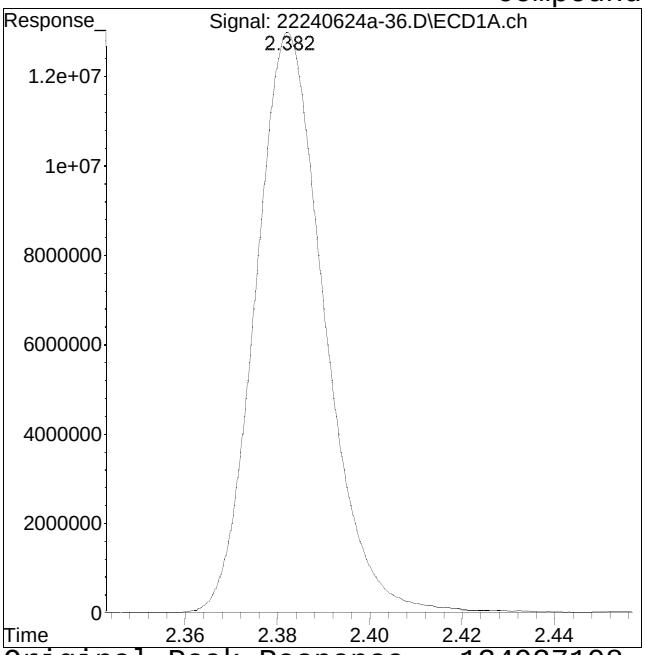


Original Peak Response = 1000929573 Manual Peak Response = 1001798454 M4
M4 = Poor automated baseline construction.

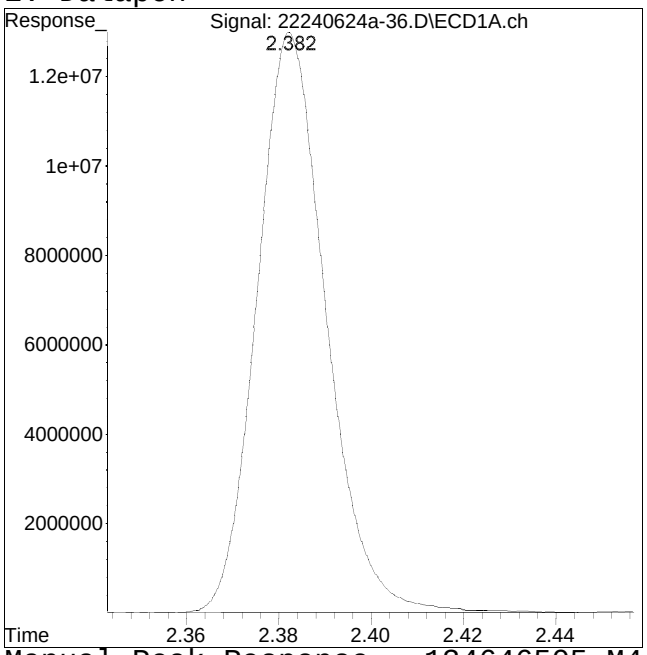
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240624QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240624a-36.D Operator : pest22:peg
Date Inj'd : 6/24/2024 23:51 Instrument : Pest22
Sample : wg1938492-3,42,,herb11561 Quant Date : 6/25/2024 6:09 am

Compound #2: Dalapon



Original Peak Response = 134937108

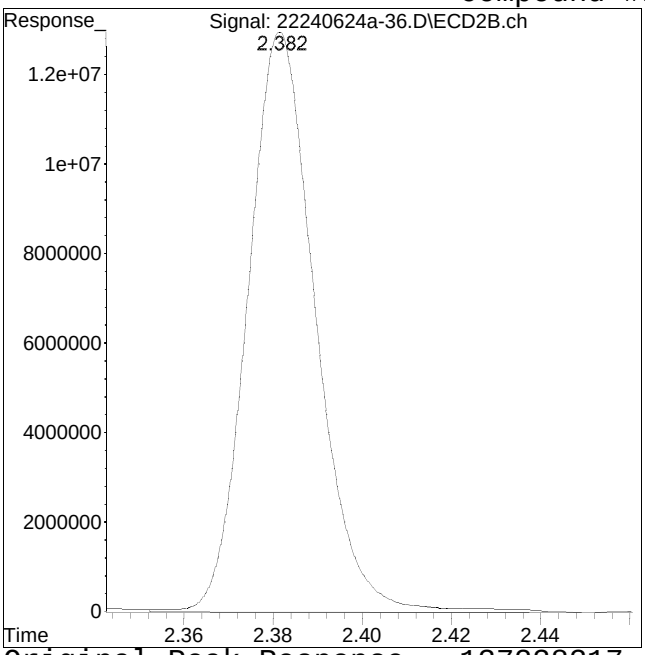


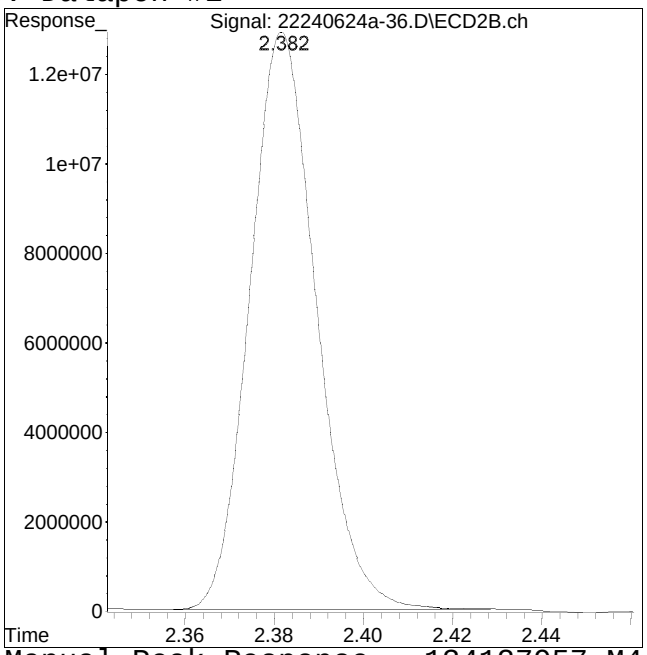
Manual Peak Response = 134646505 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240624QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240624a-36.D Operator : pest22:peg
Date Inj'd : 6/24/2024 23:51 Instrument : Pest22
Sample : wg1938492-3,42,,herb11561 Quant Date : 6/25/2024 6:09 am

Compound #15: Dalapon #2



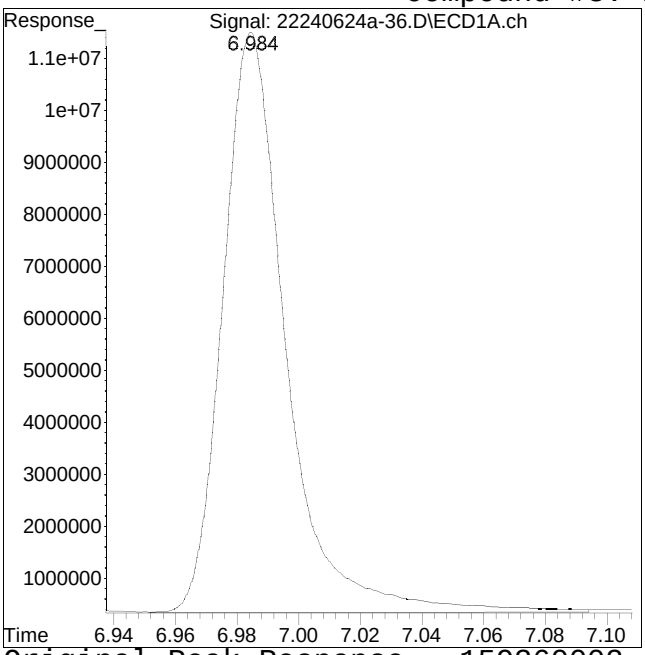


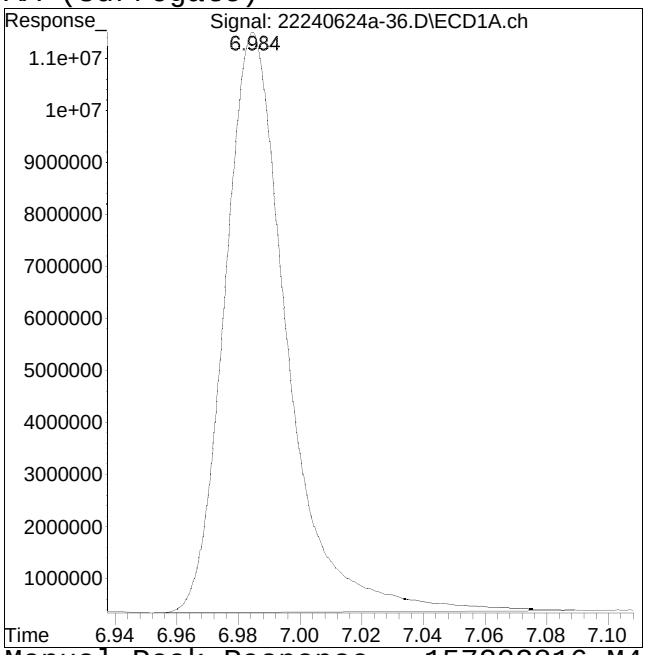
Original Peak Response = 137238317 Manual Peak Response = 134127957 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240624QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240624a-36.D Operator : pest22:peg
Date Inj'd : 6/24/2024 23:51 Instrument : Pest22
Sample : wg1938492-3,42,,herb11561 Quant Date : 6/25/2024 6:09 am

Compound #3: DCAA (surrogate)



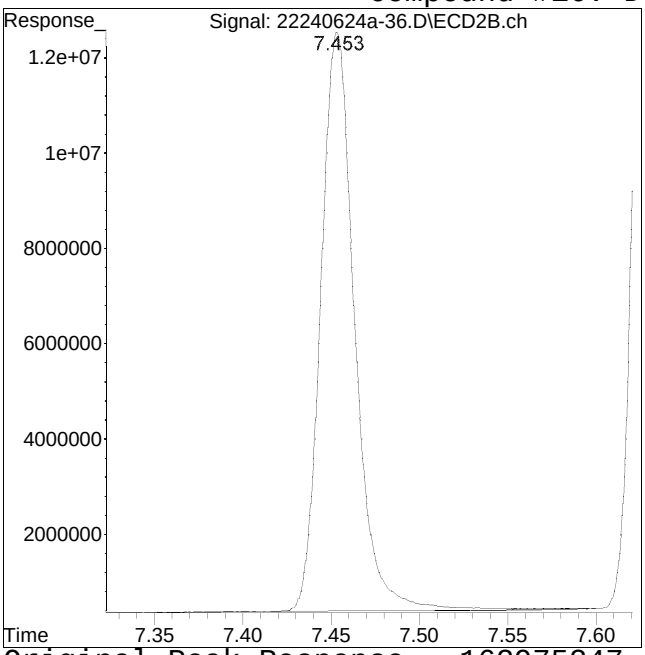


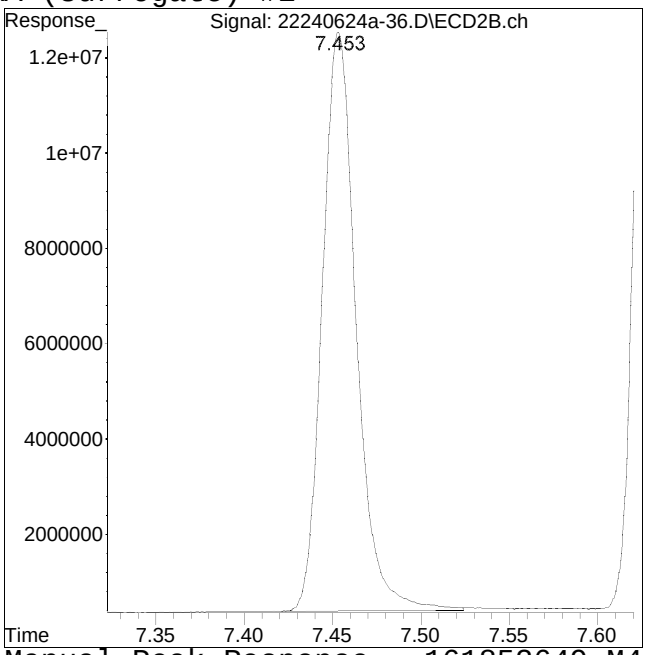
Original Peak Response = 159360002 Manual Peak Response = 157222816 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240624QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240624a-36.D Operator : pest22:peg
Date Inj'd : 6/24/2024 23:51 Instrument : Pest22
Sample : wg1938492-3,42,,herb11561 Quant Date : 6/25/2024 6:09 am

Compound #16: DCAA (surrogate) #2



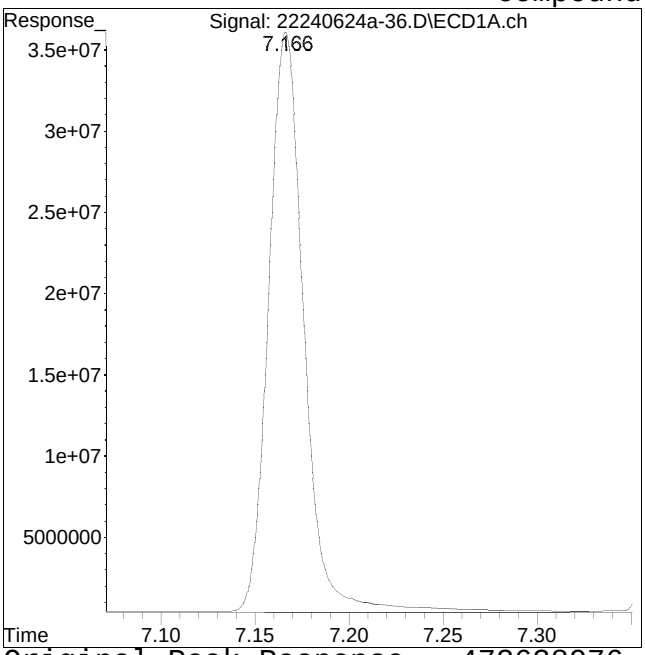


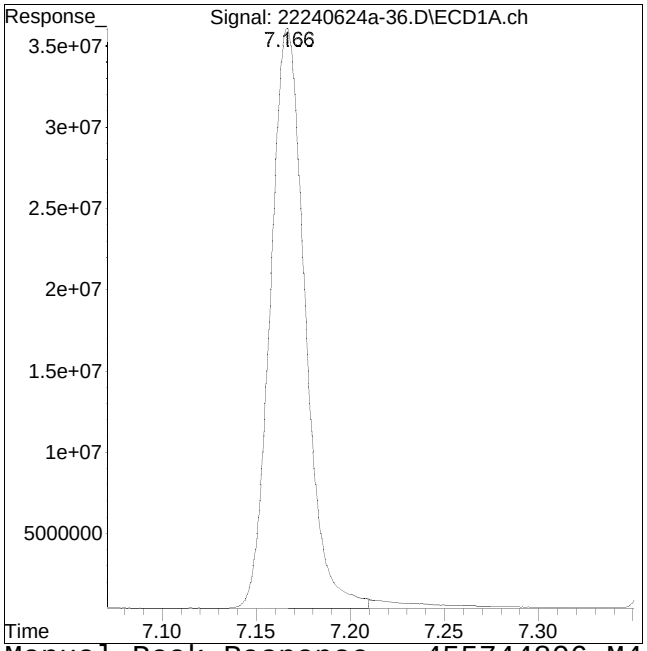
Original Peak Response = 162975247 Manual Peak Response = 161852649 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240624QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240624a-36.D Operator : pest22:peg
Date Inj'd : 6/24/2024 23:51 Instrument : Pest22
Sample : wg1938492-3,42,,herb11561 Quant Date : 6/25/2024 6:09 am

Compound #4: Dicamba



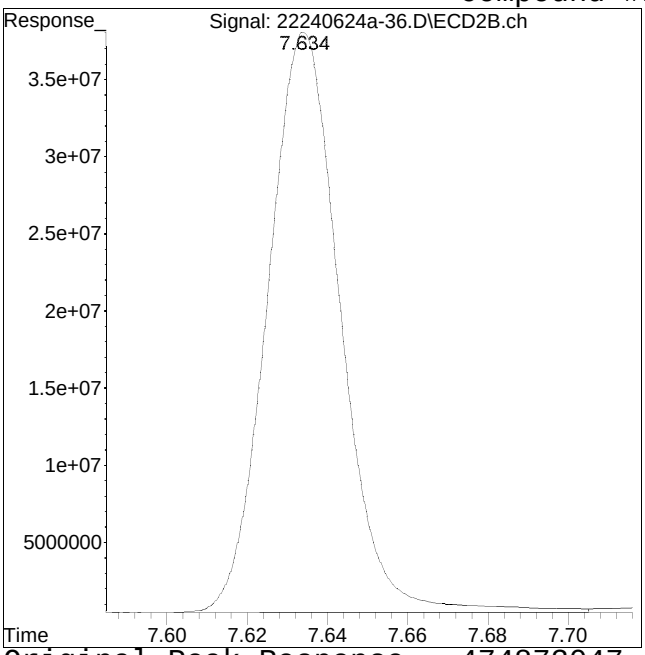


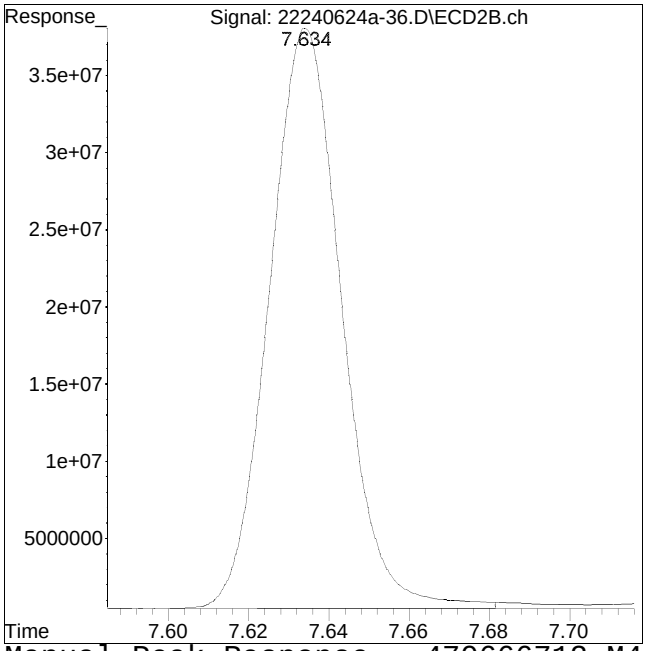
Original Peak Response = 473638976 Manual Peak Response = 455744806 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240624QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240624a-36.D Operator : pest22:peg
Date Inj'd : 6/24/2024 23:51 Instrument : Pest22
Sample : wg1938492-3,42,,herb11561 Quant Date : 6/25/2024 6:09 am

Compound #17: Dicamba #2



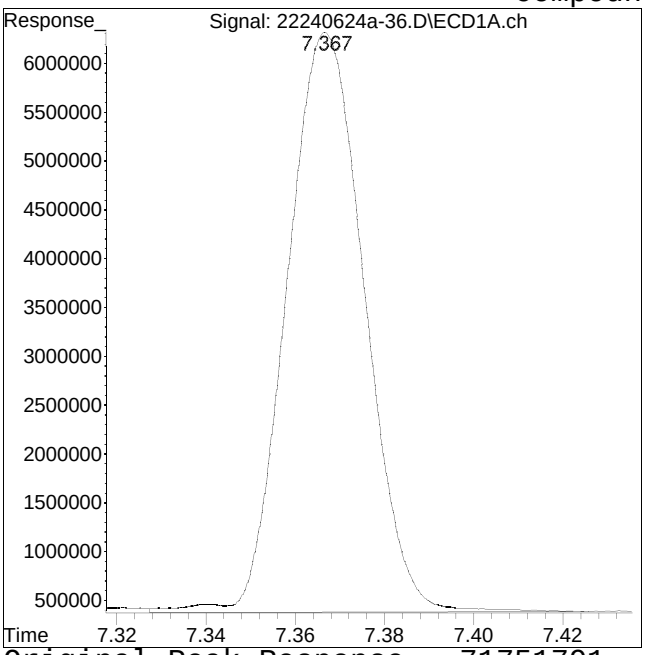


Original Peak Response = 474873047 Manual Peak Response = 470666712 M4
M4 = Poor automated baseline construction.

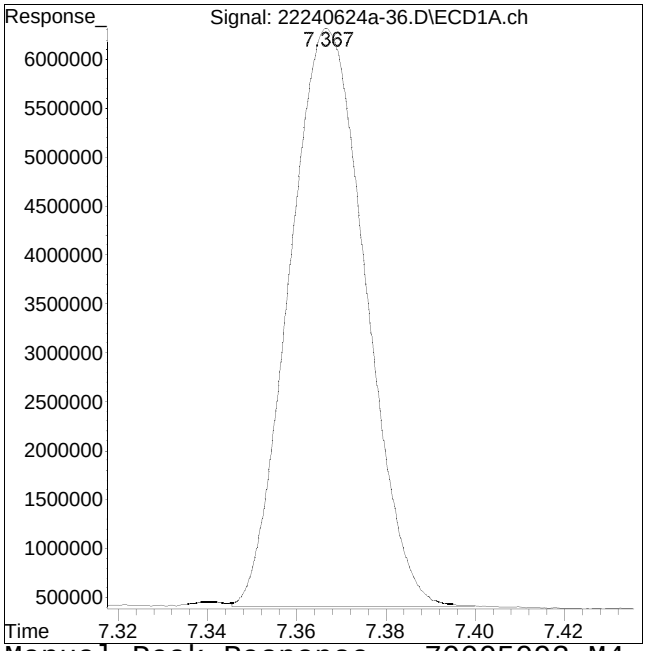
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240624QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240624a-36.D Operator : pest22:peg
Date Inj'd : 6/24/2024 23:51 Instrument : Pest22
Sample : wg1938492-3,42,,herb11561 Quant Date : 6/25/2024 6:09 am

Compound #5: MCPP



Original Peak Response = 71751791



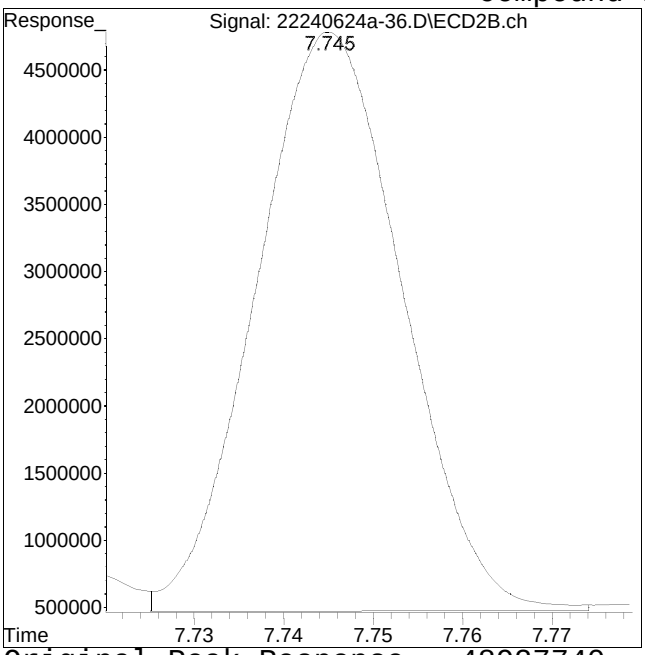
Manual Peak Response = 70005093 M4

M4 = Poor automated baseline construction.

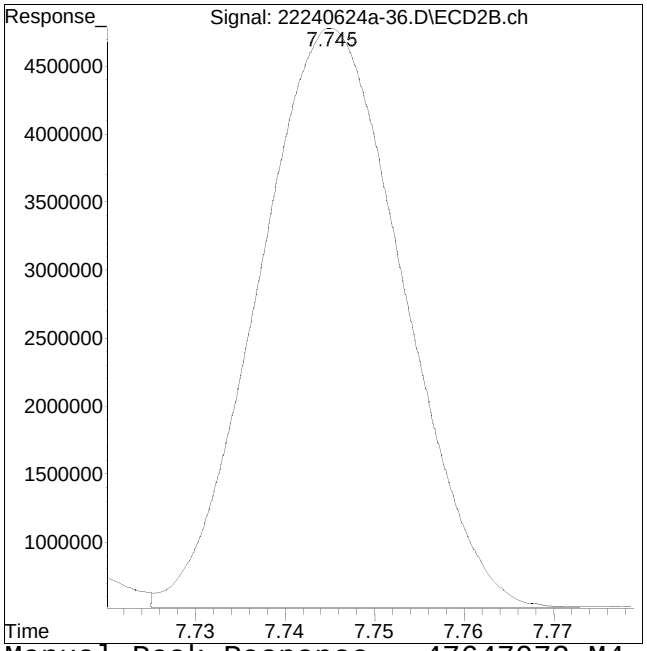
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240624QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240624a-36.D Operator : pest22:peg
Date Inj'd : 6/24/2024 23:51 Instrument : Pest22
Sample : wg1938492-3,42,,herb11561 Quant Date : 6/25/2024 6:09 am

Compound #18: MCPP #2



Original Peak Response = 48927740



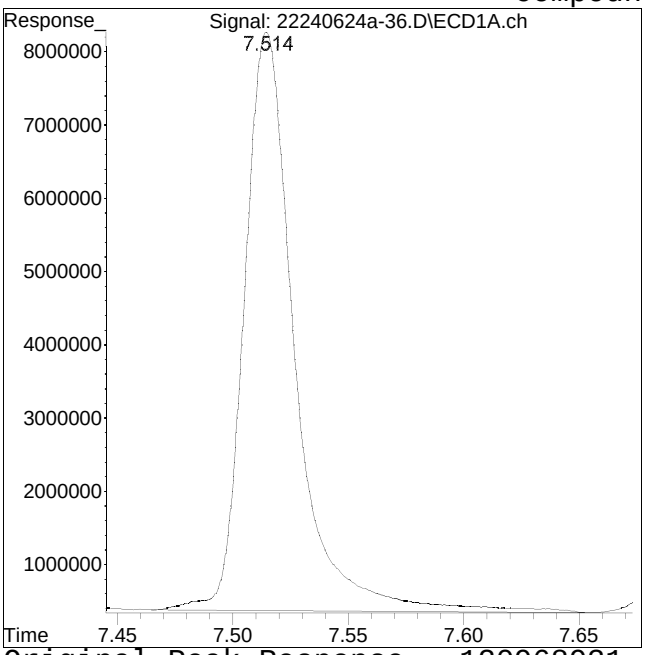
Manual Peak Response = 47647072 M4

M4 = Poor automated baseline construction.

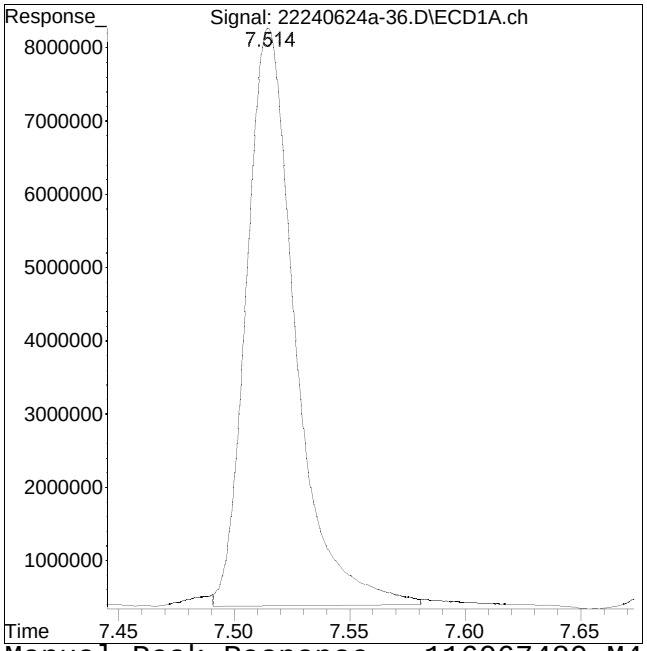
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240624QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240624a-36.D Operator : pest22:peg
Date Inj'd : 6/24/2024 23:51 Instrument : Pest22
Sample : wg1938492-3,42,,herb11561 Quant Date : 6/25/2024 6:09 am

Compound #6: MCPA



Original Peak Response = 120968931



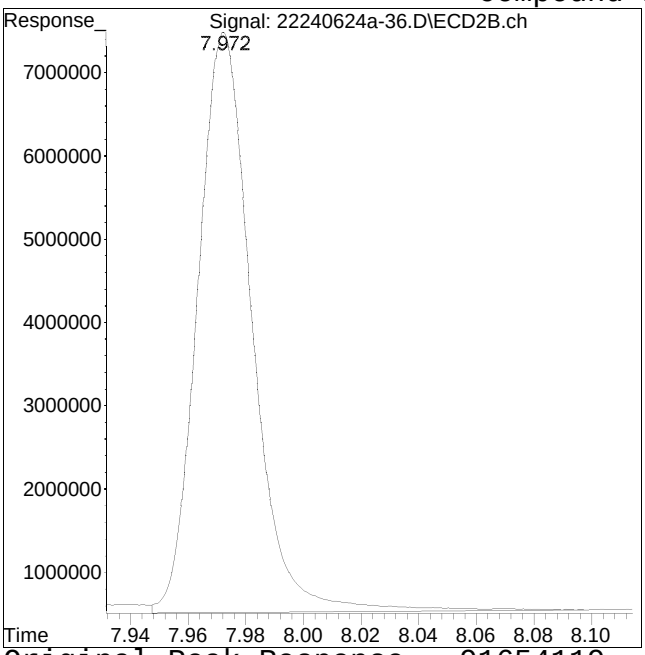
Manual Peak Response = 116067480 M4

M4 = Poor automated baseline construction.

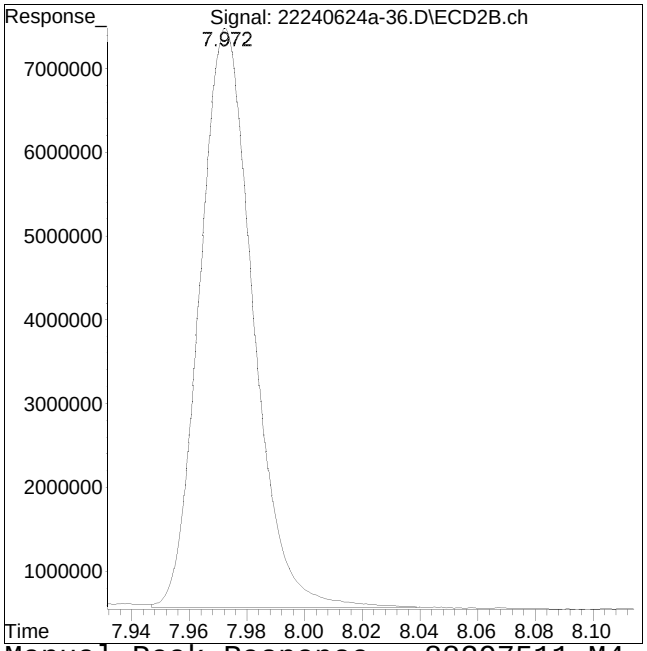
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240624QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240624a-36.D Operator : pest22:peg
Date Inj'd : 6/24/2024 23:51 Instrument : Pest22
Sample : wg1938492-3,42,,herb11561 Quant Date : 6/25/2024 6:09 am

Compound #19: MCPA #2



Original Peak Response = 91654119



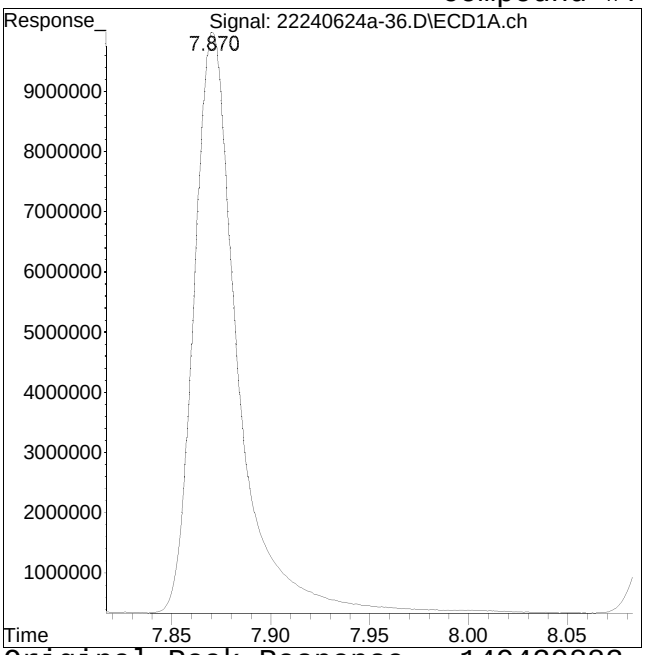
Manual Peak Response = 88297511 M4

M4 = Poor automated baseline construction.

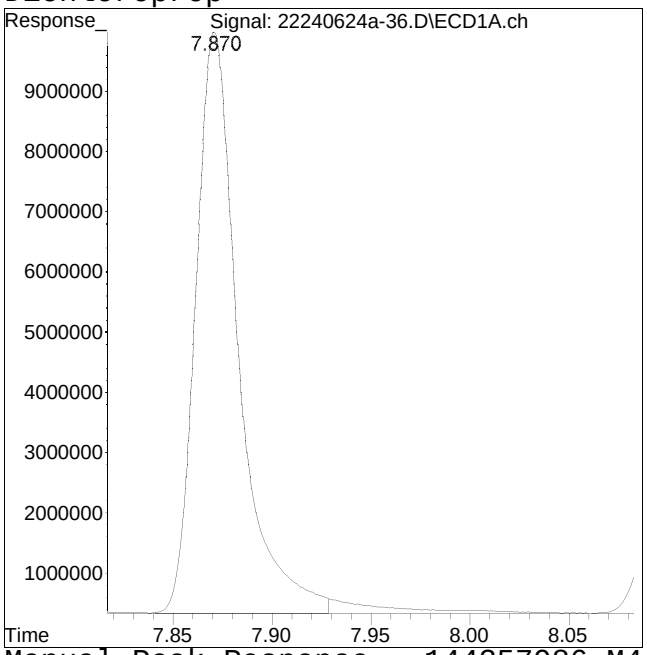
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240624QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240624a-36.D Operator : pest22:peg
Date Inj'd : 6/24/2024 23:51 Instrument : Pest22
Sample : wg1938492-3,42,,herb11561 Quant Date : 6/25/2024 6:09 am

Compound #7: Dichloroprop



Original Peak Response = 149439883



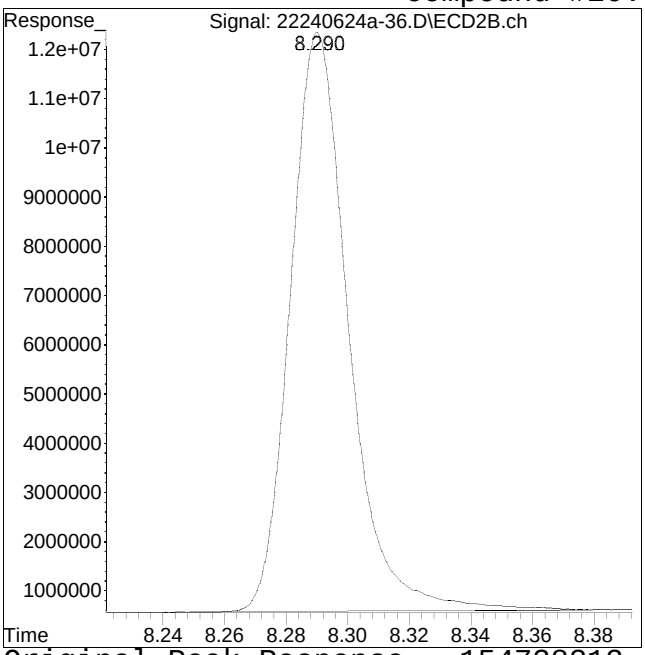
Manual Peak Response = 144357986 M4

M4 = Poor automated baseline construction.

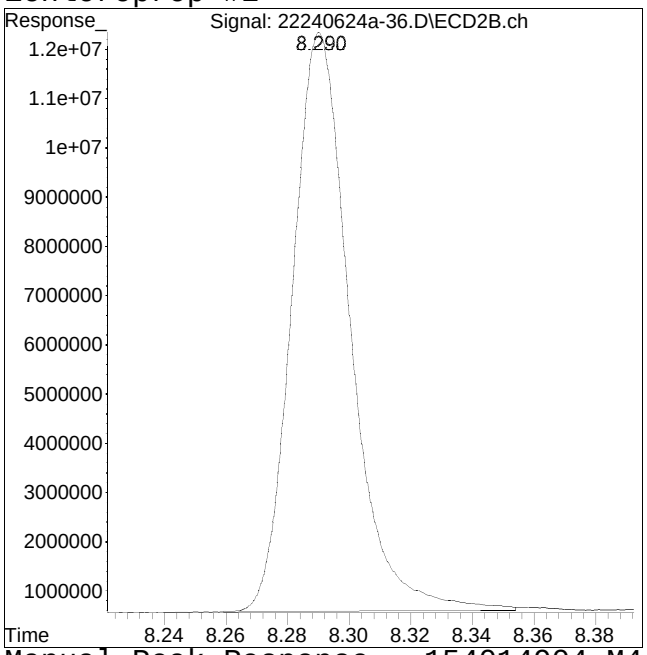
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240624QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240624a-36.D Operator : pest22:peg
Date Inj'd : 6/24/2024 23:51 Instrument : Pest22
Sample : wg1938492-3,42,,herb11561 Quant Date : 6/25/2024 6:09 am

Compound #20: Dichloroprop #2



Original Peak Response = 154738312



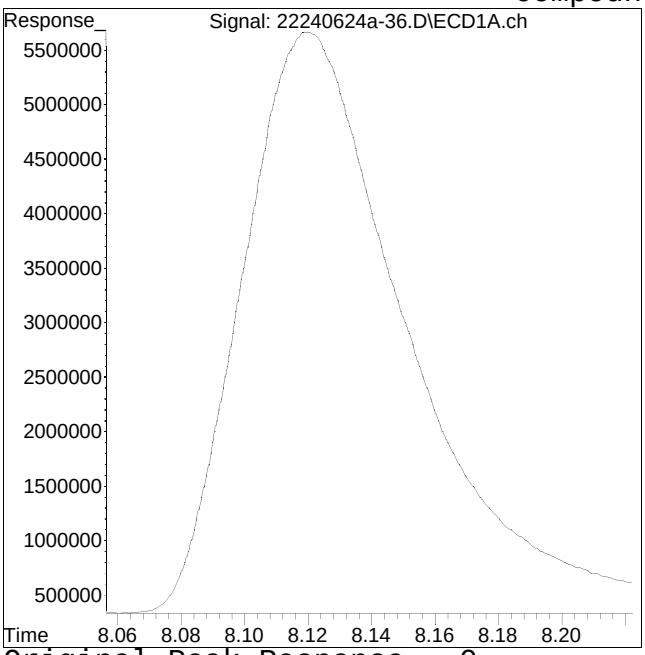
Manual Peak Response = 154014904 M4

M4 = Poor automated baseline construction.

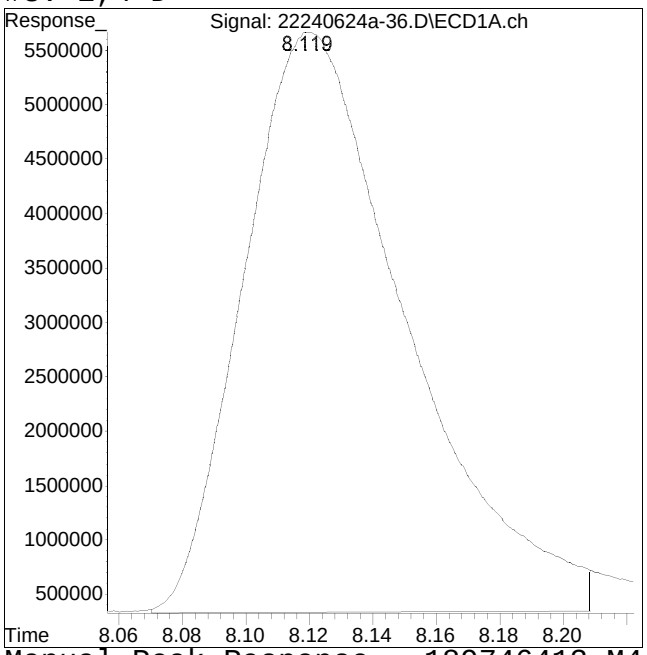
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240624QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240624a-36.D Operator : pest22:peg
Date Inj'd : 6/24/2024 23:51 Instrument : Pest22
Sample : wg1938492-3,42,,herb11561 Quant Date : 6/25/2024 6:09 am

Compound #8: 2,4-D



Original Peak Response = 0



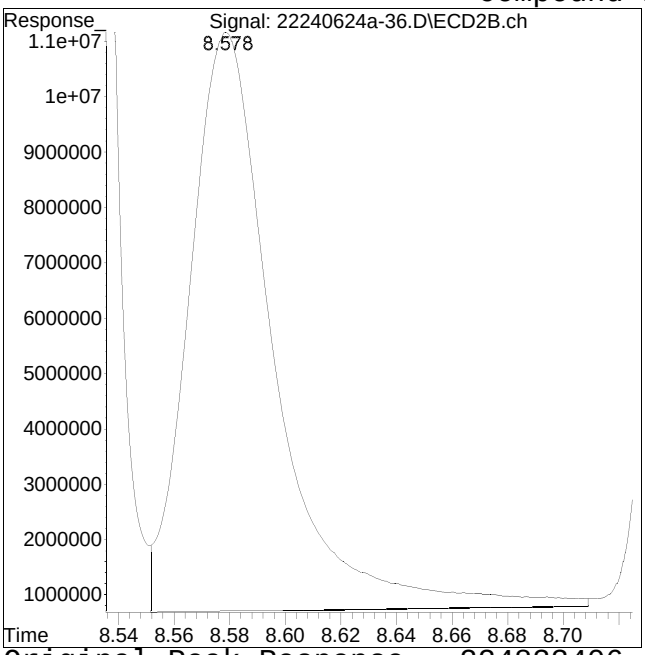
Manual Peak Response = 189746413 M4

M4 = Poor automated baseline construction.

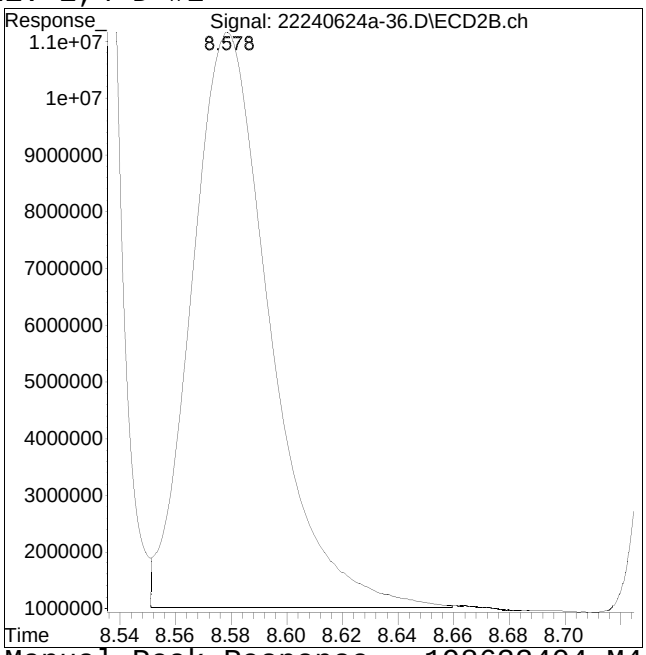
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240624QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240624a-36.D Operator : pest22:peg
Date Inj'd : 6/24/2024 23:51 Instrument : Pest22
Sample : wg1938492-3,42,,herb11561 Quant Date : 6/25/2024 6:09 am

Compound #21: 2,4-D #2



Original Peak Response = 224833406



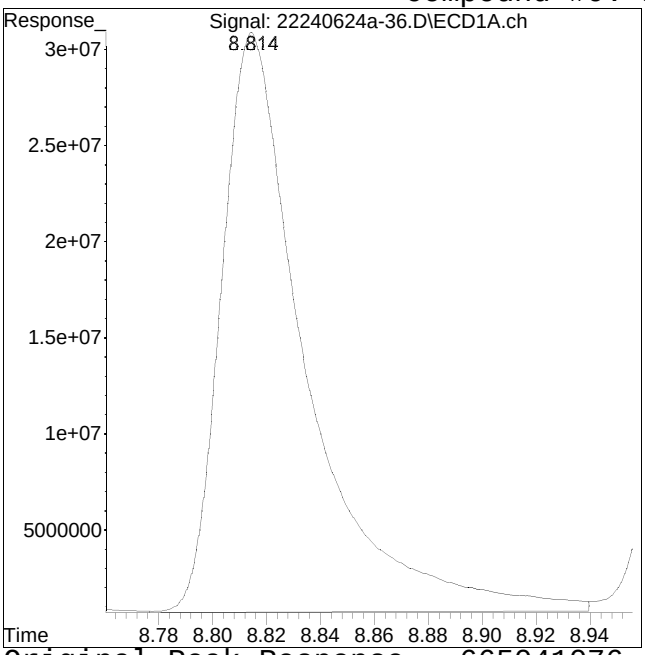
Manual Peak Response = 198633404 M4

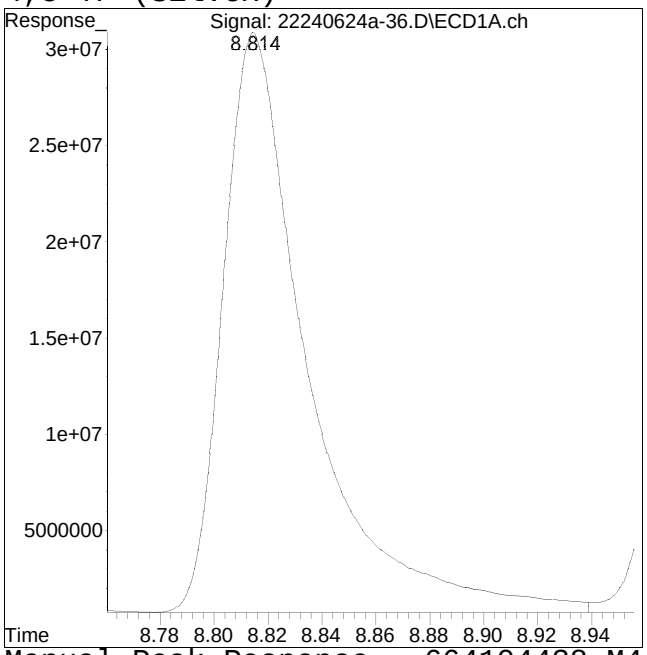
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240624QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240624a-36.D Operator : pest22:peg
Date Inj'd : 6/24/2024 23:51 Instrument : Pest22
Sample : wg1938492-3,42,,herb11561 Quant Date : 6/25/2024 6:09 am

Compound #9: 2,4,5-TP (Silvex)



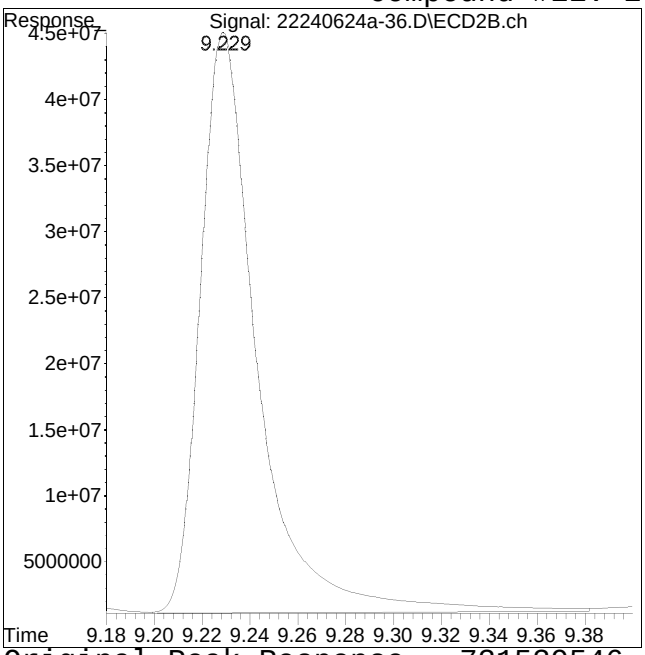


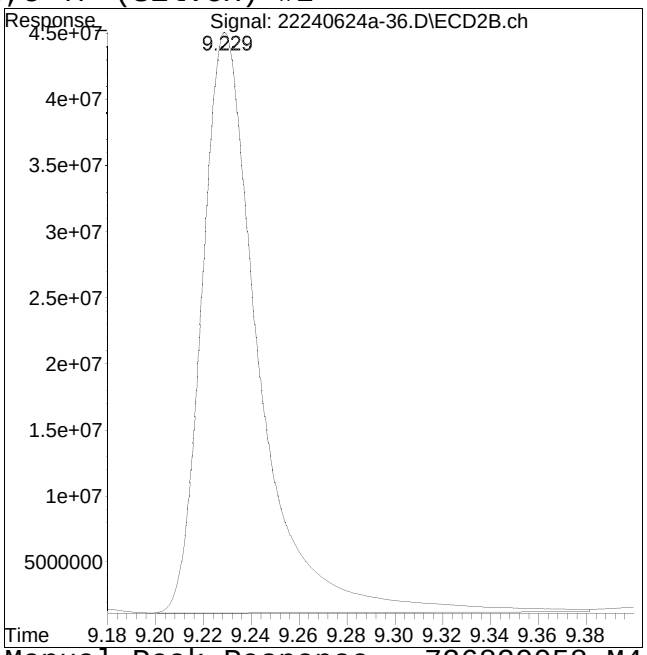
Original Peak Response = 665041076 Manual Peak Response = 664104438 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240624QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240624a-36.D Operator : pest22:peg
Date Inj'd : 6/24/2024 23:51 Instrument : Pest22
Sample : wg1938492-3,42,,herb11561 Quant Date : 6/25/2024 6:09 am

Compound #22: 2,4,5-TP (Silvex) #2



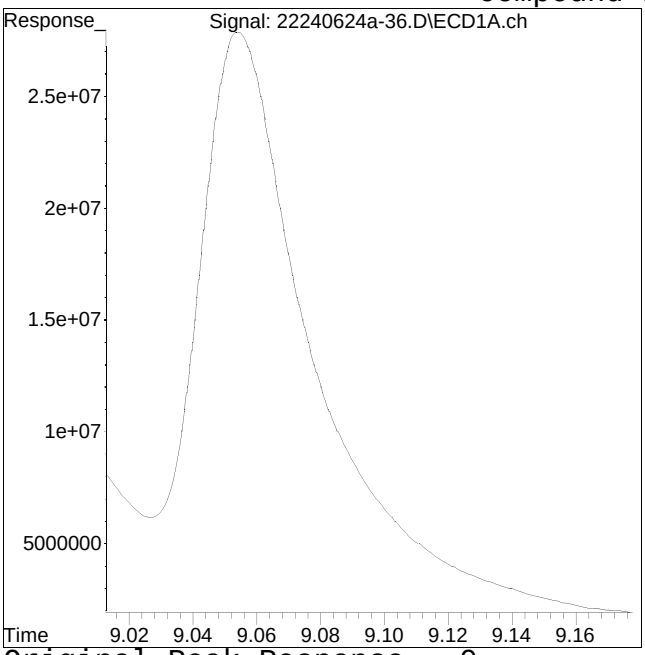


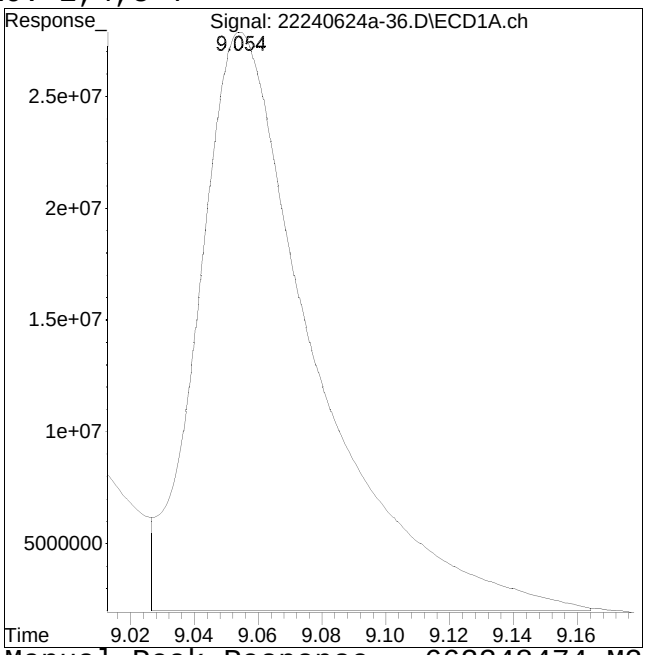
Original Peak Response = 731539546 Manual Peak Response = 726820058 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240624QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240624a-36.D Operator : pest22:peg
Date Inj'd : 6/24/2024 23:51 Instrument : Pest22
Sample : wg1938492-3,42,,herb11561 Quant Date : 6/25/2024 6:09 am

Compound #10: 2,4,5-T



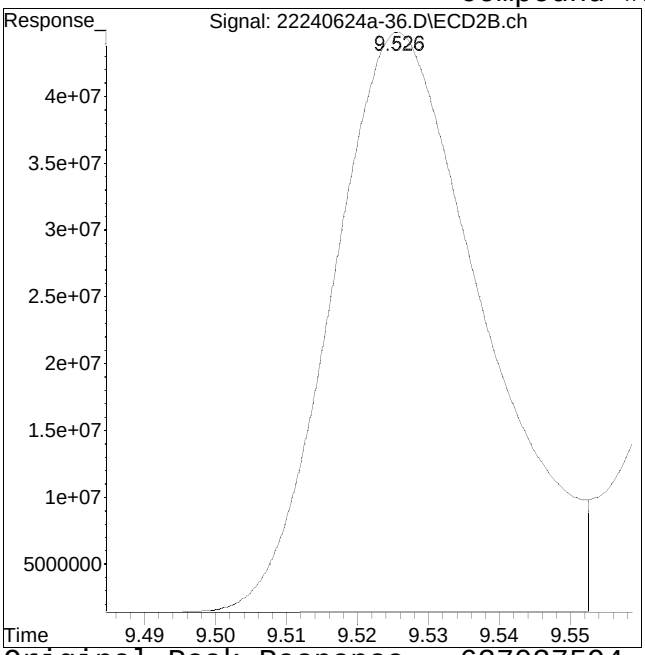


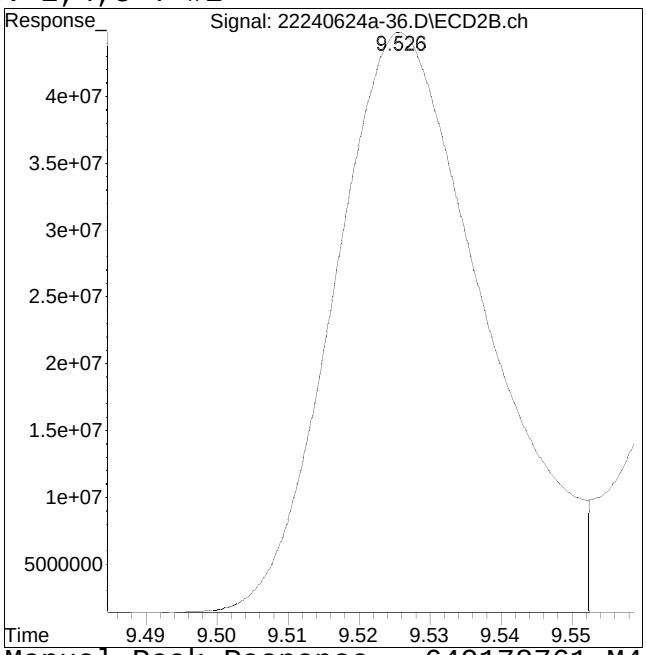
Original Peak Response = 0 Manual Peak Response = 662348474 M2
M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240624QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240624a-36.D Operator : pest22:peg
Date Inj'd : 6/24/2024 23:51 Instrument : Pest22
Sample : wg1938492-3,42,,herb11561 Quant Date : 6/25/2024 6:09 am

Compound #23: 2,4,5-T #2



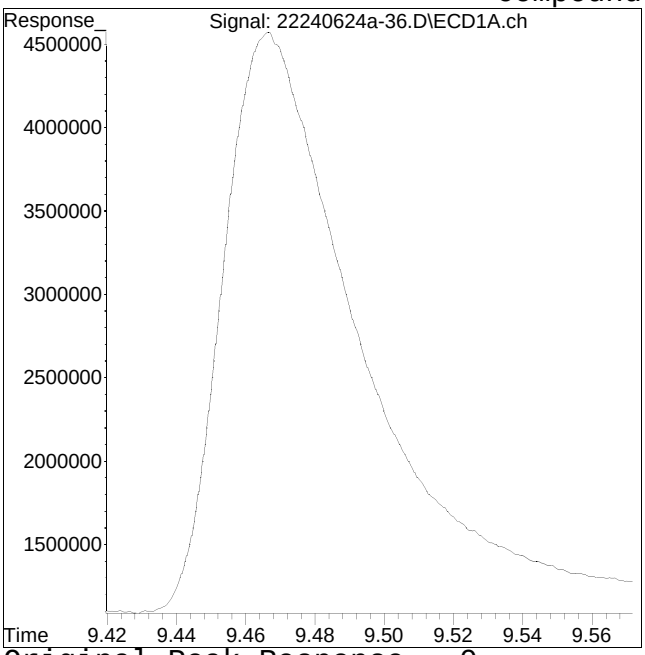


Original Peak Response = 637037594 Manual Peak Response = 640178761 M4
M4 = Poor automated baseline construction.

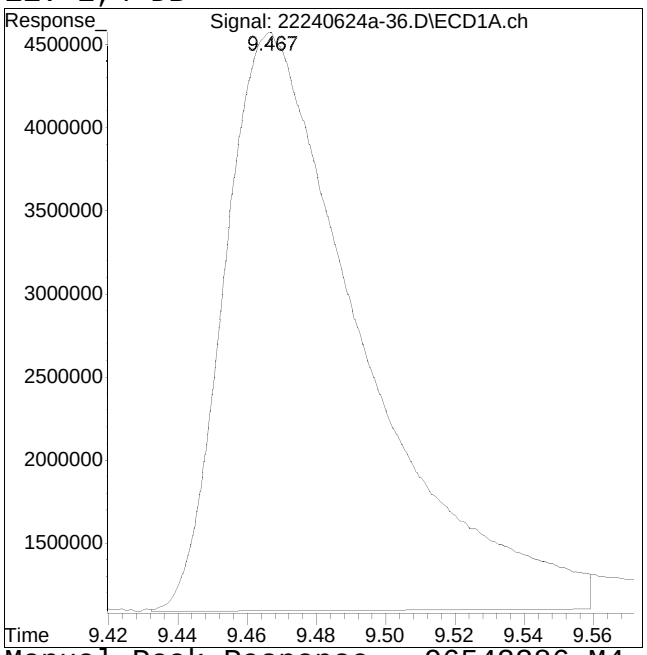
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240624QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240624a-36.D Operator : pest22:peg
Date Inj'd : 6/24/2024 23:51 Instrument : Pest22
Sample : wg1938492-3,42,,herb11561 Quant Date : 6/25/2024 6:09 am

Compound #11: 2,4-DB



Original Peak Response = 0



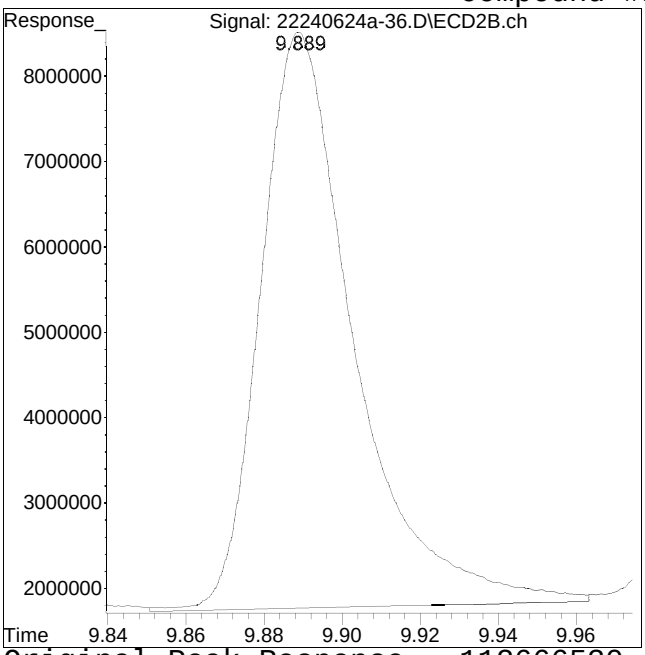
Manual Peak Response = 96542386 M4

M4 = Poor automated baseline construction.

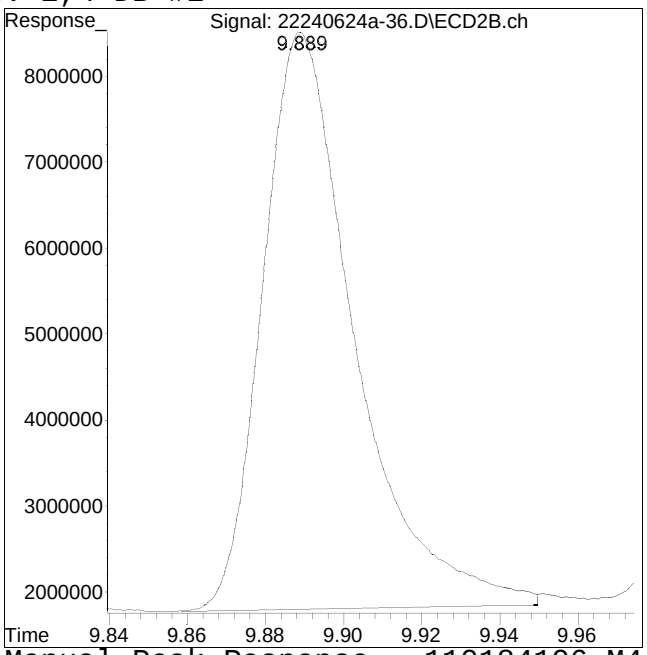
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240624QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240624a-36.D Operator : pest22:peg
Date Inj'd : 6/24/2024 23:51 Instrument : Pest22
Sample : wg1938492-3,42,,herb11561 Quant Date : 6/25/2024 6:09 am

Compound #24: 2,4-DB #2



Original Peak Response = 112666530

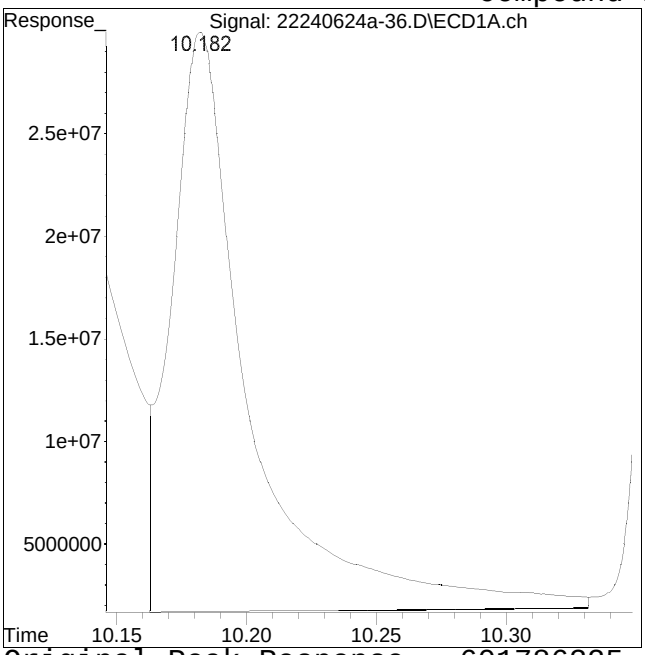


Manual Peak Response = 110184196 M4
M4 = Poor automated baseline construction.

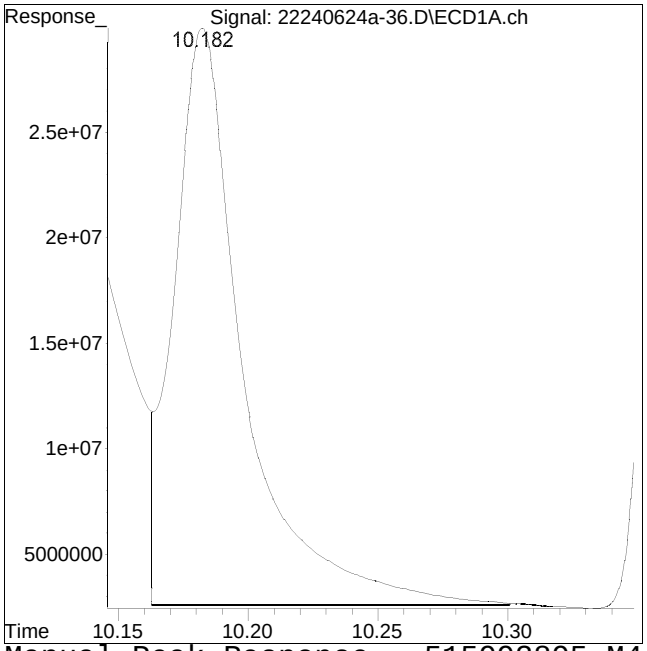
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240624QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240624a-36.D Operator : pest22:peg
Date Inj'd : 6/24/2024 23:51 Instrument : Pest22
Sample : wg1938492-3,42,,herb11561 Quant Date : 6/25/2024 6:09 am

Compound #12: Dinoseb



Original Peak Response = 601786325



Manual Peak Response = 515993895 M4

M4 = Poor automated baseline construction.

Evaluate Continuing Calibration Report

Data Path : I:\PCB\Pest16\2024\240624A\
Data File : 16240624a-02.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On   : 24 Jun 2024   5:47
Operator : pest16:ejl
Sample   : wg1938572-1,42,,herb11561 (Sig #1); herb11561 (Sig #2)
Misc   : wg1938572,,ical21173
ALS Vial : 2   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 24 06:46:52 2024
Quant Method : I:\PCB\Pest16\2024\240624A\Herb16_2024_05_21_ICAL21173.m
Quant Title : herb
QLast Update : Mon Jun 24 06:46:44 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 15%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
1	i	4,4'-DBOB	^	1.000	1.000	0.0	119	0.00
2	t	Dalapon	*	0.182	0.179	1.6	115	0.00
3	s	DCAA (surrogate)	*	0.188	0.208	-10.6	123	0.00
4	t	Dicamba		0.393	0.416	-5.9	126	0.00
5	t	MCPP	*	18.800	21.039	-11.9	123	0.00
6	t	MCPA	*	18.600	20.339	-9.3	120	0.00
7	t	Dichloroprop		0.111	0.116	-4.5	122	0.00
8	t	2,4-D		0.132	0.137	-3.8	121	0.00
9	t	2,4,5-TP (Silvex)		0.783	0.825	-5.4	125	0.00
10	t	2,4,5-T		0.683	0.727	-6.4	127	0.00
11	t	2,4-DB		0.065	0.065	0.0	114	0.00
12	t	Dinoseb		0.507	0.549	-8.3	129	0.00

Signal #2

1	i	4,4'-DBOB	^	1.000	1.000	0.0	119	0.00
2	t	Dalapon	*	0.182	0.204	-12.1	124	0.00
3	s	DCAA (surrogate)	*	0.188	0.226	-20.2#	126	0.00
4	t	Dicamba		0.563	0.641	-13.9	130	0.00
5	t	MCPP	*	18.800	20.225	-7.6	115	0.00
6	t	MCPA	*	18.600	17.886	3.8	107	0.00
7	t	Dichloroprop		0.174	0.202	-16.1#	131	0.00
8	t	2,4-D		0.217	0.261	-20.3#	138	0.00
9	t	2,4,5-TP (Silvex)		0.773	0.902	-16.7#	133	0.00
10	t	2,4,5-T		0.696	0.811	-16.5#	134	0.00
11	t	2,4-DB		0.114	0.128	-12.3	130	0.00
12	t	Dinoseb		0.421	0.423	-0.5	114	0.00

Evaluate Continuing Calibration Report - Not Founds

Evaluate Continuing Calibration Report

Data Path : I:\PCB\Pest16\2024\240624A\
Data File : 16240624a-02.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On   : 24 Jun 2024   5:47
Operator : pest16:ejl
Sample   : wg1938572-1,42,,herb11561 (Sig #1); herb11561 (Sig #2)
Misc   : wg1938572,,ical21173
ALS Vial : 2   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 24 06:46:52 2024
Quant Method : I:\PCB\Pest16\2024\240624A\Herb16_2024_05_21_ICAL21173.m
Quant Title : herb
QLast Update : Mon Jun 24 06:46:44 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 15%   Max. Rel. Area : 150%

Compound	AvgRF	CCRF	%Dev	Area% Dev(Min)

Signal #2

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* Evaluation of CC level amount vs concentration.
(#) = Out of Range SPCC's out = 0 CCC's out = 0
(^) = ISTD area calculated using ICAL average

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest16\2024\240624A\
Data File : 16240624a-02.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 24 Jun 2024 5:47
Operator : pest16:ejl
Sample : wg1938572-1,42,,herb11561 (Sig #1); herb11561 (Sig #2)
Misc : wg1938572,,ical21173
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 24 06:46:52 2024
Quant Method : I:\PCB\Pest16\2024\240624A\Herb16_2024_05_21_ICAL21173.m
Quant Title : herb
QLast Update : Mon Jun 24 06:46:44 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	mg/l	mg/l
	Internal Standards						
1) i	4,4'-DBOB	8.443	8.359	1148.9E6	1598.1E6	0.250	0.250
	System Monitoring Compounds						
3) s	DCAA (surrog	6.870	7.260	78129533	253.1E6	0.208	0.226
	Spiked Amount	0.500	Range	30 - 150	Recovery =	41.60%	45.20%
	Target Compounds						
2) t	Dalapon	1.863	1.817	124.7E6	231.1E6	0.179	0.204
4) t	Dicamba	7.054	7.441	359.0E6	770.7E6	0.199	0.214
5) t	MCPP	7.264	7.560	20179429	141.3E6	21.039	20.225M4
6) t	MCPA	7.412	7.790	31242835	209.0E6	20.339M4	17.886
7) t	Dichloroprop	7.770	8.113	100.1E6	242.7E6	0.196	0.218
8) t	2,4-D	7.983	8.393	118.4E6	313.7E6	0.195	0.226
9) t	2,4,5-TP (Si	8.714	9.066	720.1E6	1095.8E6	0.200M3	0.222
10) t	2,4,5-T	8.937	9.361	635.2E6	984.6E6	0.202	0.221
11) t	2,4-DB	9.352	9.730	56945798	157.1E6	0.191	0.216
12) t	Dinoseb	10.111	9.954	479.3E6	513.3E6	0.206	0.191
	SemiQuant Compounds - Not Calibrated on this Instrument						

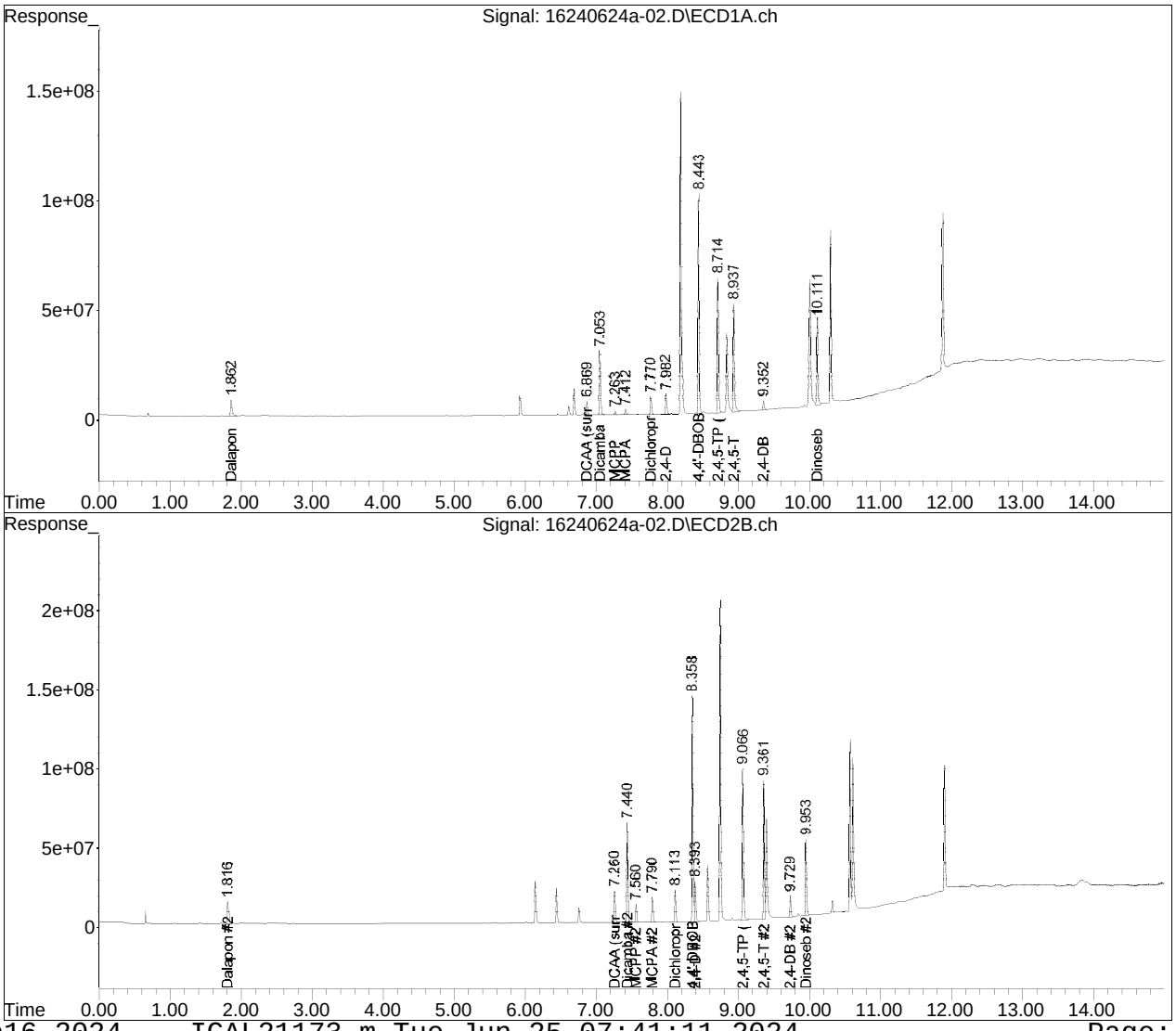
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PCB\Pest16\2024\240624A\
Data File : 16240624a-02.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 24 Jun 2024 5:47
Operator : pest16:ejl
Sample : wg1938572-1,42,,herb11561 (Sig #1); herb11561 (Sig #2)
Misc : wg1938572,,ical21173
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 24 06:46:52 2024
Quant Method : I:\PCB\Pest16\2024\240624A\Herb16_2024_05_21_ICAL21173.m
Quant Title : herb
QLast Update : Mon Jun 24 06:46:44 2024
Response via : Initial Calibration
Integrator: ChemStation

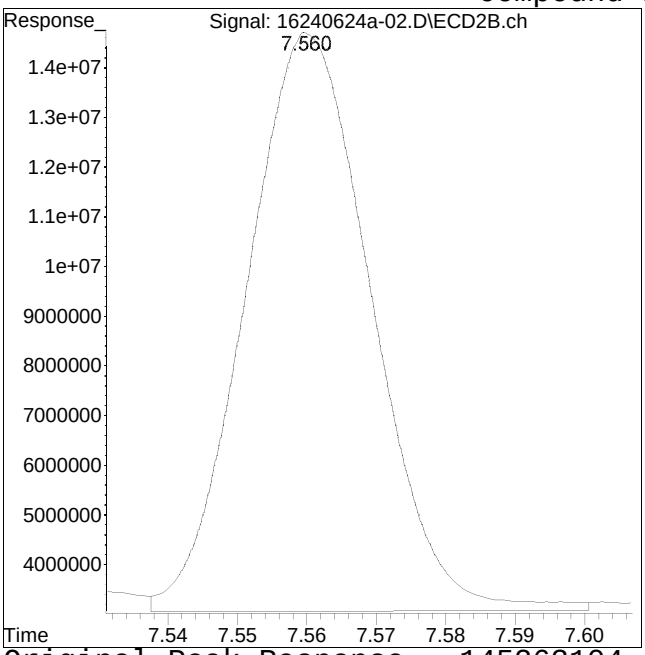
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



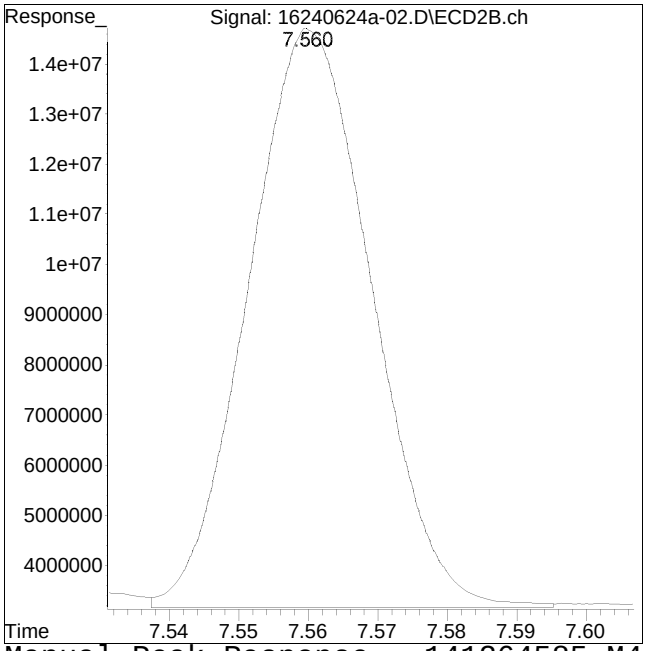
Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240624AQMethod : Herb16_2024_05_21_ICAL21
Data File : 16240624a-02.D Operator : pest16:ejl
Date Inj'd : 6/24/2024 5:47 Instrument : PEST16
Sample : wg1938572-1,42,,herb11561 Quant Date : 6/24/2024 6:46 am

Compound #18: MCPP #2



Original Peak Response = 145263104



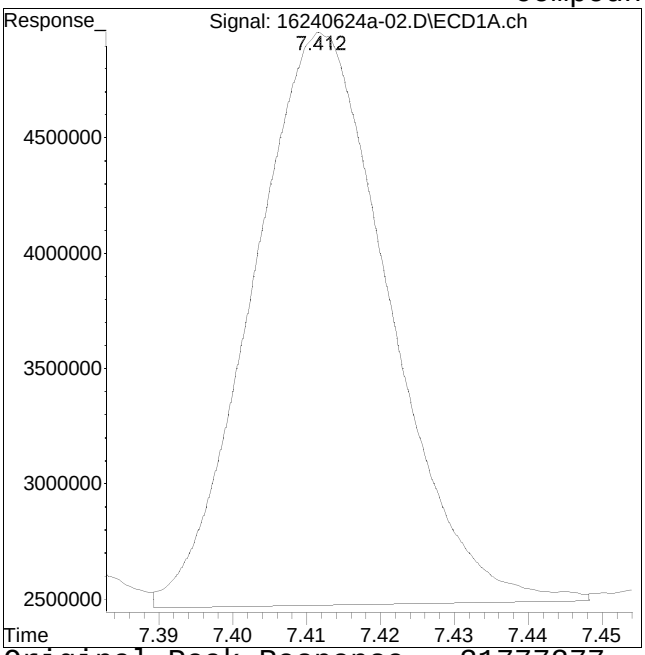
Manual Peak Response = 141264585 M4

M4 = Poor automated baseline construction.

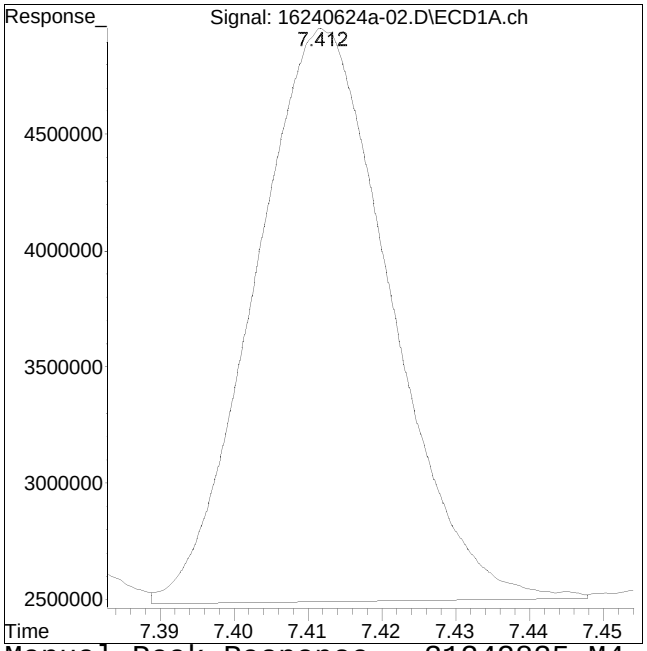
Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240624AQMethod : Herb16_2024_05_21_ICAL21
Data File : 16240624a-02.D Operator : pest16:ejl
Date Inj'd : 6/24/2024 5:47 Instrument : PEST16
Sample : wg1938572-1,42,,herb11561 Quant Date : 6/24/2024 6:46 am

Compound #6: MCPA



Original Peak Response = 31777277



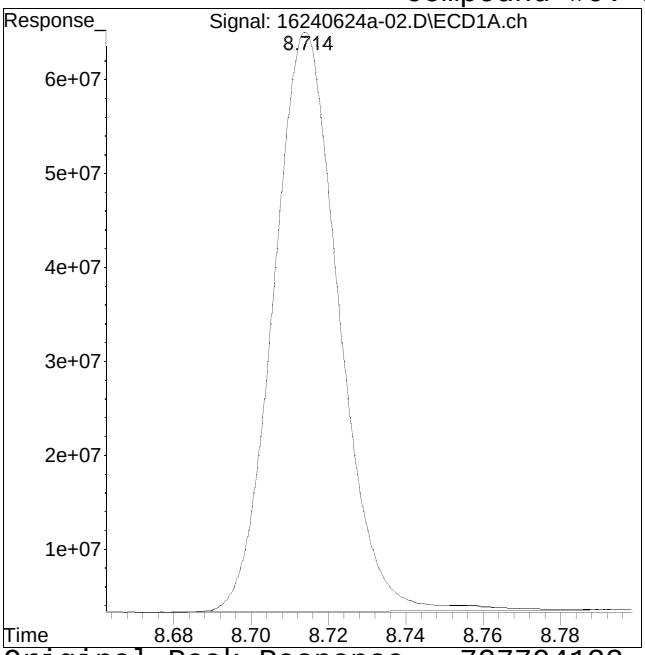
Manual Peak Response = 31242835 M4

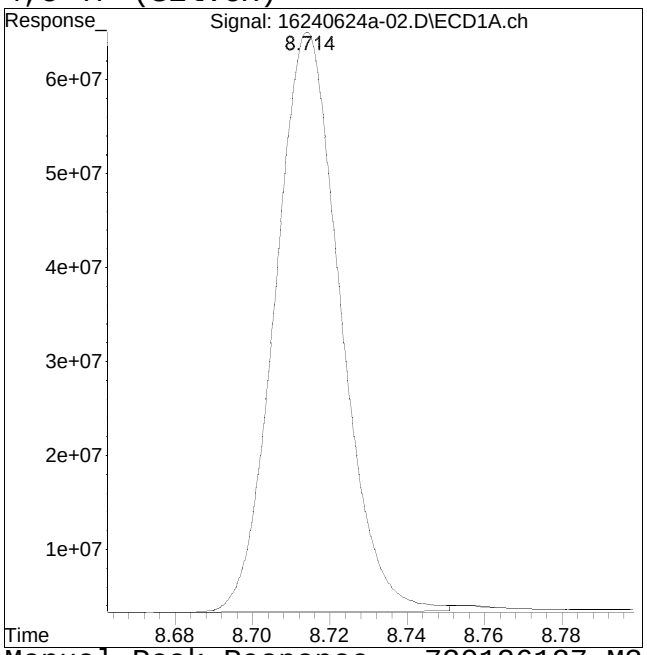
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240624AQMethod : Herb16_2024_05_21_ICAL21
Data File : 16240624a-02.D Operator : pest16:ejl
Date Inj'd : 6/24/2024 5:47 Instrument : PEST16
Sample : wg1938572-1,42,,herb11561 Quant Date : 6/24/2024 6:46 am

Compound #9: 2,4,5-TP (Silvex)





Original Peak Response = 727794133 Manual Peak Response = 720126127 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

RT Shift Summary

Identification Summary
Form 10
Pesticides

Client	**: Alpha Geoscience**	**Lab Number**	**: L2434679**
Project Name	**: RANCO MINE**	**Project Number**	**: 12123**

No Detections Found

Herbicides Raw QC Data

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest16\2024\240624A\
Data File : 16240624a-04.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 24 Jun 2024 12:55
Operator : pest16:akm
Sample : WG1938239-1,42,,
Misc : wg1938572,wg1938239,ical21173 (Sig #1); wg1938572,wg1938230,ical21173 (Sig #2)
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 25 07:41:38 2024
Quant Method : I:\PCB\Pest16\2024\240624A\Herb16_2024_05_21_ICAL21173.m
Quant Title : herb
QLast Update : Mon Jun 24 06:46:42 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PCB\Pest16\2024\240624A\16240624a-02.D
Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	mg/l	mg/l
Internal Standards						
1) i 4,4'-DBOB	8.440	8.355	1115.5E6	1495.2E6	0.250	0.250M3
Standard Area 1 : #1 = 1148940826				Recovery =	97.09%	
Standard Area 1 : #2 = 1598088195				Recovery =	93.56%	
System Monitoring Compounds						
3) s DCAA (surrog	6.866	7.257	169.7E6	505.2E6	0.500	0.524M4
Spiked Amount	0.500	Range 30 - 150		Recovery =	100.00%	104.80%
Target Compounds						
8) t 2,4-D	0.000	0.000	0	0	N.D. d	N.D. d
9) t 2,4,5-TP (Si	0.000	0.000	0	0	N.D. d	N.D. d
10) t 2,4,5-T	0.000	0.000	0	0	N.D. d	N.D. d
SemiQuant Compounds - Not Calibrated on this Instrument						

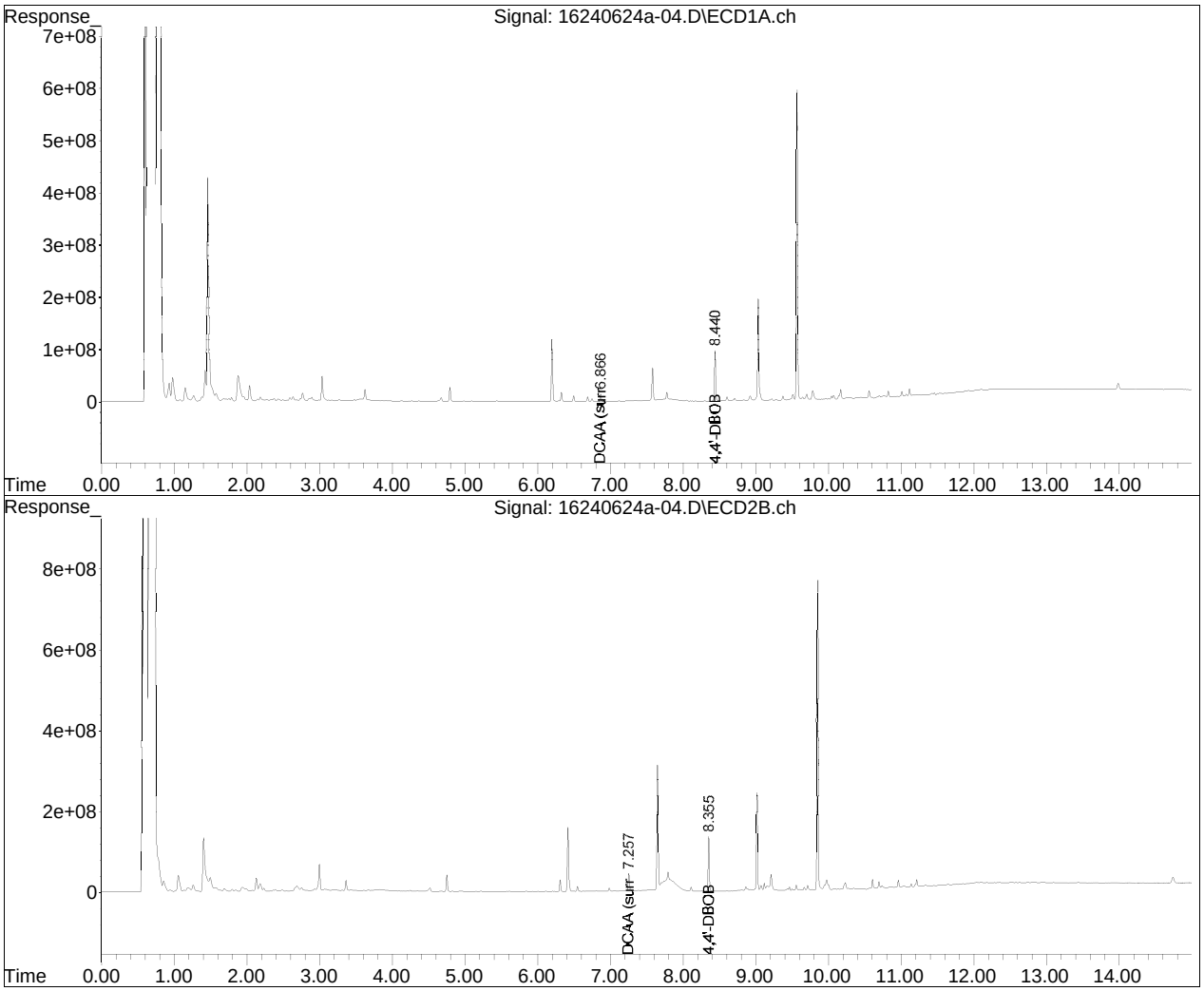
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed\16240624a-02.D•

Data Path : I:\PCB\Pest16\2024\240624A\
Data File : 16240624a-04.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 24 Jun 2024 12:55
Operator : pest16:akm
Sample : WG1938239-1,42,,
Misc : wg1938572,wg1938239,ical21173 (Sig #1); wg1938572,wg1938230,ical21
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 25 07:41:38 2024
Quant Method : I:\PCB\Pest16\2024\240624A\Herb16_2024_05_21_ICAL21173.m
Quant Title : herb
QLast Update : Mon Jun 24 06:46:42 2024
Response via : Initial Calibration
Integrator: ChemStation

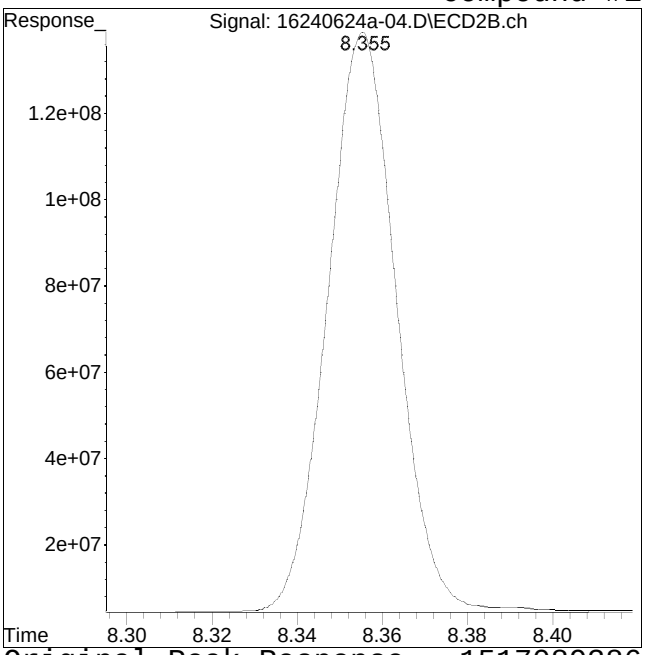
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

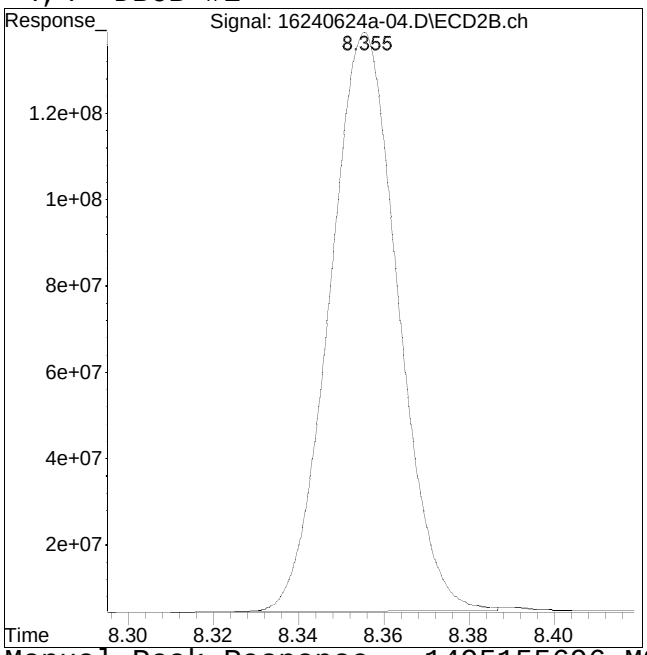


Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240624AQMethod : Herb16_2024_05_21_ICAL21
Data File : 16240624a-04.D Operator : pest16:akm
Date Inj'd : 6/24/2024 12:55 Instrument : PEST16
Sample : WG1938239-1,42,, Quant Date : 6/25/2024 7:41 am

Compound #14: 4,4'-DBOB #2



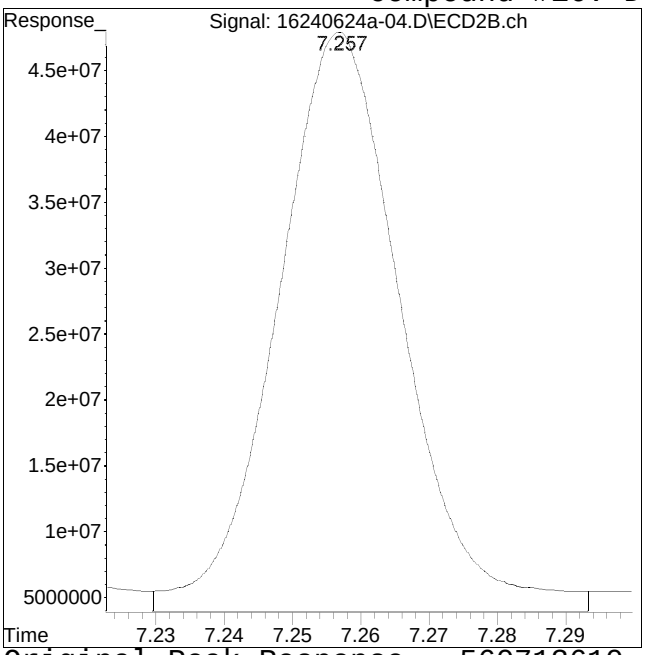


Original Peak Response = 1517089386 Manual Peak Response = 1495155696 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

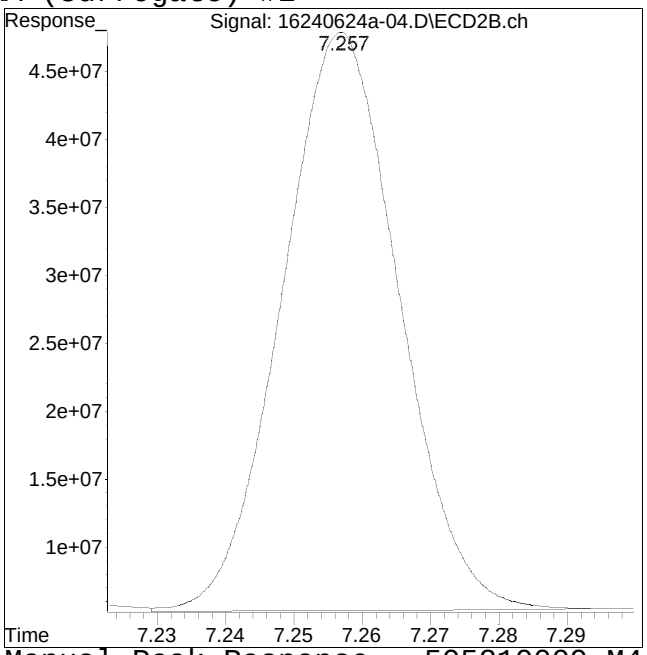
Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240624AQMethod : Herb16_2024_05_21_ICAL21
Data File : 16240624a-04.D Operator : pest16:akm
Date Inj'd : 6/24/2024 12:55 Instrument : PEST16
Sample : WG1938239-1,42,, Quant Date : 6/25/2024 7:41 am

Compound #16: DCAA (surrogate) #2



Original Peak Response = 560713610



Manual Peak Response = 505210009 M4

M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest16\2024\240624A\
Data File : 16240624a-05.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 24 Jun 2024 13:14
Operator : pest16:akm
Sample : WG1938239-2,42,,
Misc : wg1938572,wg1938239,ical21173
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 25 07:41:40 2024
Quant Method : I:\PCB\Pest16\2024\240624A\Herb16_2024_05_21_ICAL21173.m
Quant Title : herb
QLast Update : Mon Jun 24 06:46:42 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PCB\Pest16\2024\240624A\16240624a-02.D
Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	mg/l	mg/l
	Internal Standards						
1) i	4,4'-DBOB	8.433	8.350	1059.1E6	1499.0E6	0.250M4	0.250
	Standard Area 1 : #1 = 1148940826				Recovery =	92.18%	
	Standard Area 1 : #2 = 1598088195				Recovery =	93.80%	
	System Monitoring Compounds						
3) s	DCAA (surrog	6.859	7.251	170.0E6	574.4E6	0.530	0.599M4
	Spiked Amount	0.500	Range 30 - 150		Recovery =	106.00%	119.80%
	Target Compounds						
8) t	2,4-D	7.971	8.384	269.8E6	716.5E6	0.481M4	0.551M4
9) t	2,4,5-TP (Si	8.704	9.058	1737.0E6	2378.6E6	0.524M4	0.513M4
10) t	2,4,5-T	8.927	9.352	1677.4E6	2437.9E6	0.580M4	0.585M4

SemiQuant Compounds - Not Calibrated on this Instrument

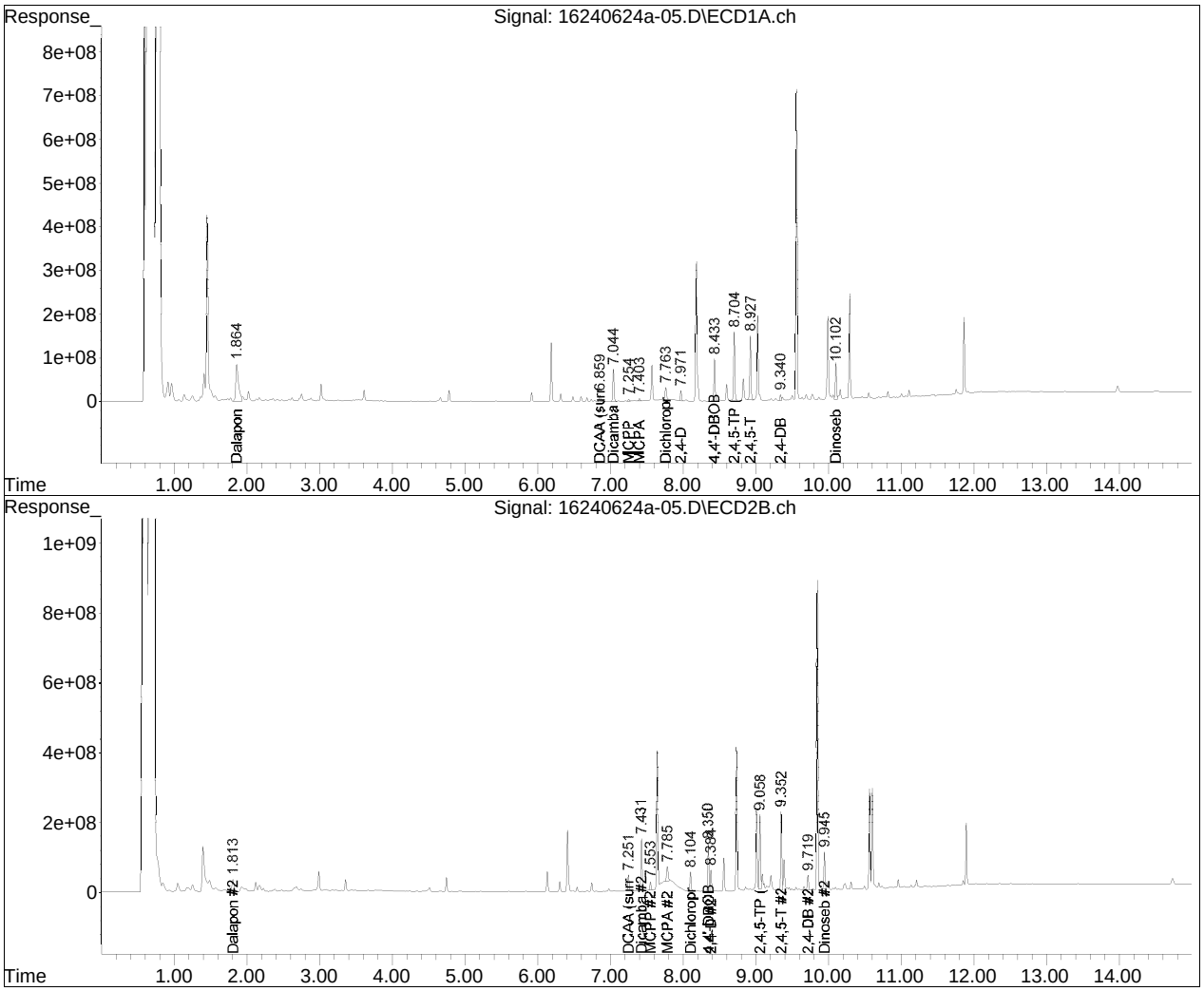
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed\16240624a-02.D•

Data Path : I:\PCB\Pest16\2024\240624A\
Data File : 16240624a-05.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 24 Jun 2024 13:14
Operator : pest16:akm
Sample : WG1938239-2,42,,
Misc : wg1938572,wg1938239,ical21173
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 25 07:41:40 2024
Quant Method : I:\PCB\Pest16\2024\240624A\Herb16_2024_05_21_ICAL21173.m
Quant Title : herb
QLast Update : Mon Jun 24 06:46:42 2024
Response via : Initial Calibration
Integrator: ChemStation

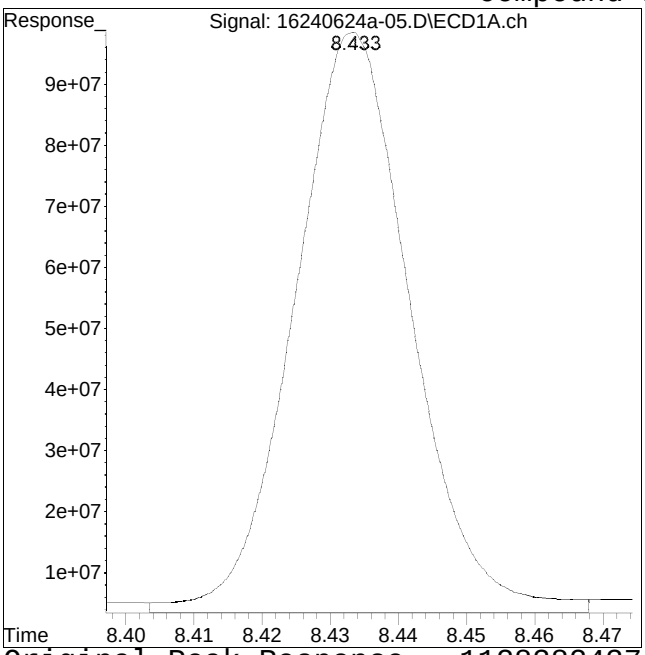
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

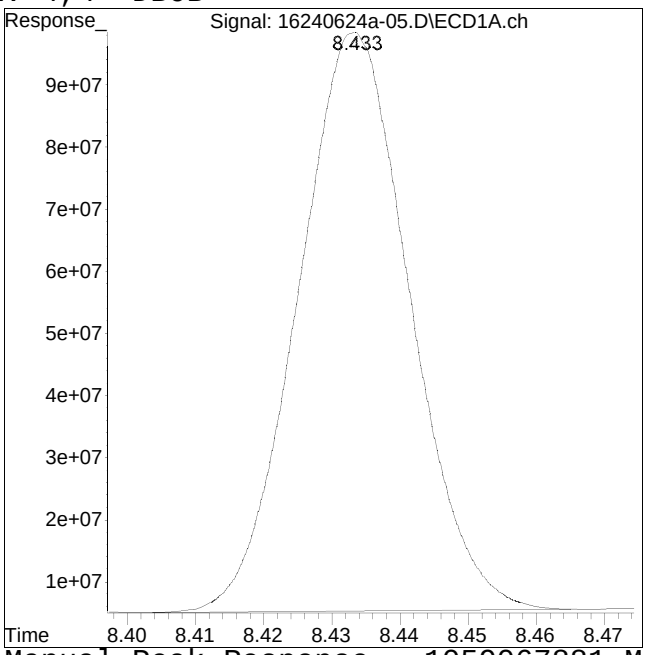


Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240624AQMethod : Herb16_2024_05_21_ICAL21
Data File : 16240624a-05.D Operator : pest16:akm
Date Inj'd : 6/24/2024 13:14 Instrument : PEST16
Sample : WG1938239-2,42,, Quant Date : 6/25/2024 7:41 am

Compound #1: 4,4'-DBOB



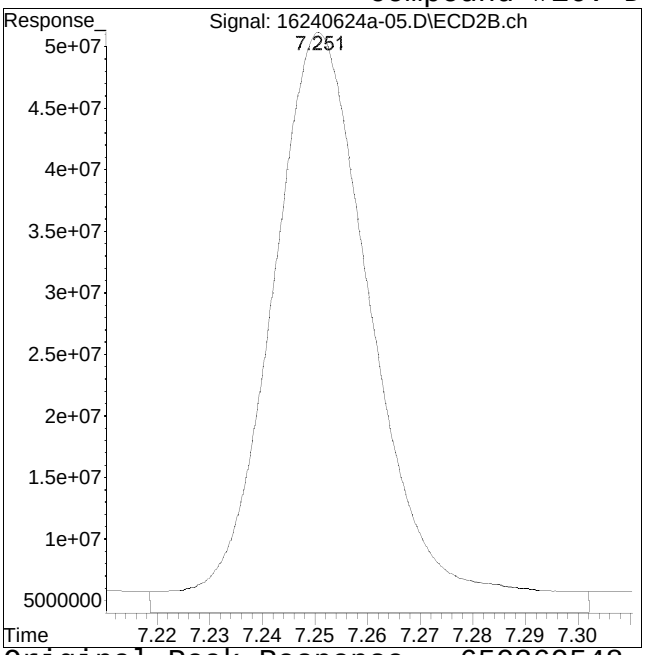


Original Peak Response = 1128382437 Manual Peak Response = 1059067881 M4
M4 = Poor automated baseline construction.

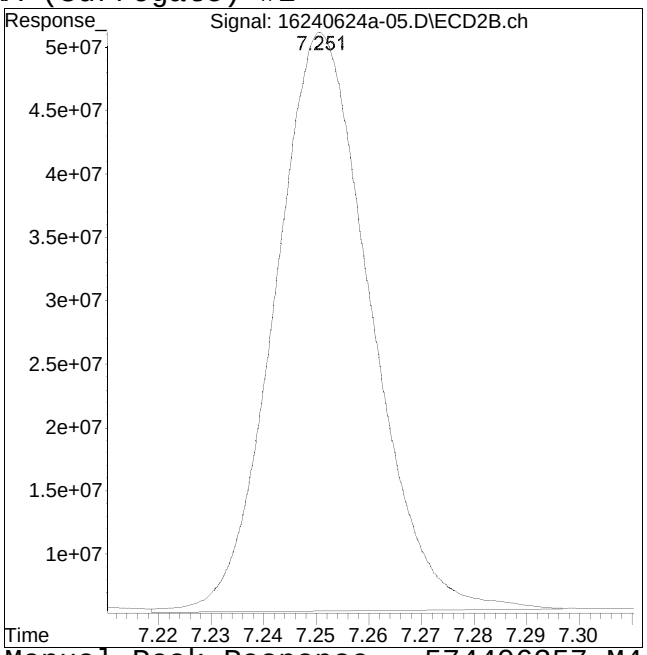
Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240624AQMethod : Herb16_2024_05_21_ICAL21
Data File : 16240624a-05.D Operator : pest16:akm
Date Inj'd : 6/24/2024 13:14 Instrument : PEST16
Sample : WG1938239-2,42,, Quant Date : 6/25/2024 7:41 am

Compound #16: DCAA (surrogate) #2



Original Peak Response = 650369548



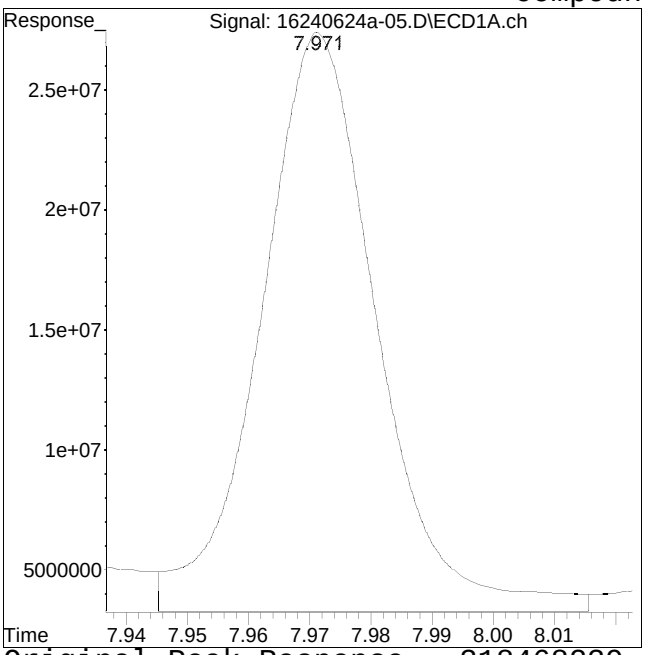
Manual Peak Response = 574406357 M4

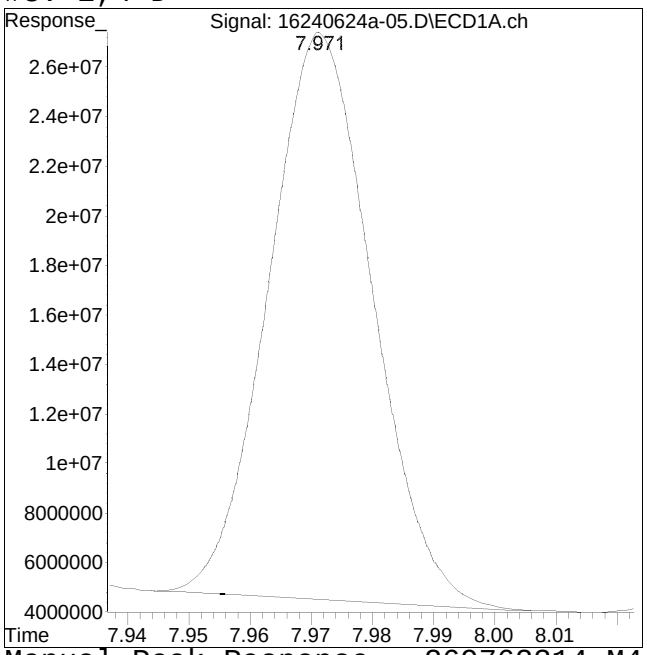
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240624AQMethod : Herb16_2024_05_21_ICAL21
Data File : 16240624a-05.D Operator : pest16:akm
Date Inj'd : 6/24/2024 13:14 Instrument : PEST16
Sample : WG1938239-2,42,, Quant Date : 6/25/2024 7:41 am

Compound #8: 2,4-D



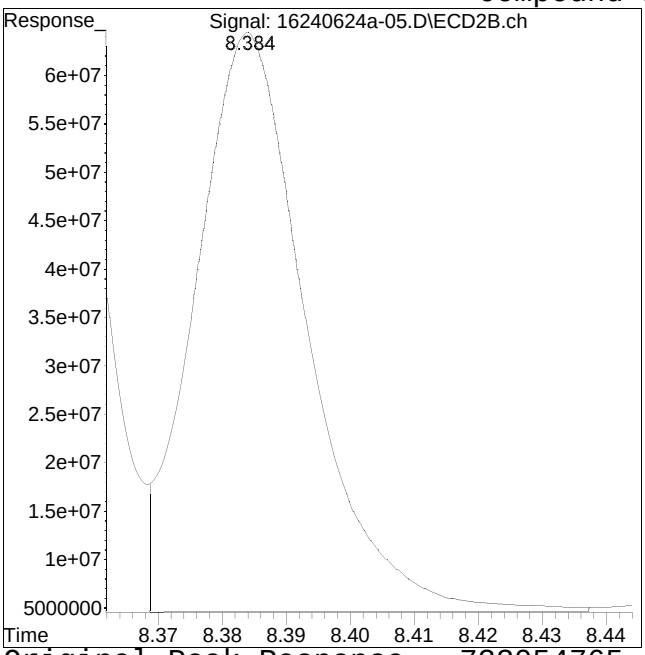


Original Peak Response = 318468239 Manual Peak Response = 269762314 M4
M4 = Poor automated baseline construction.

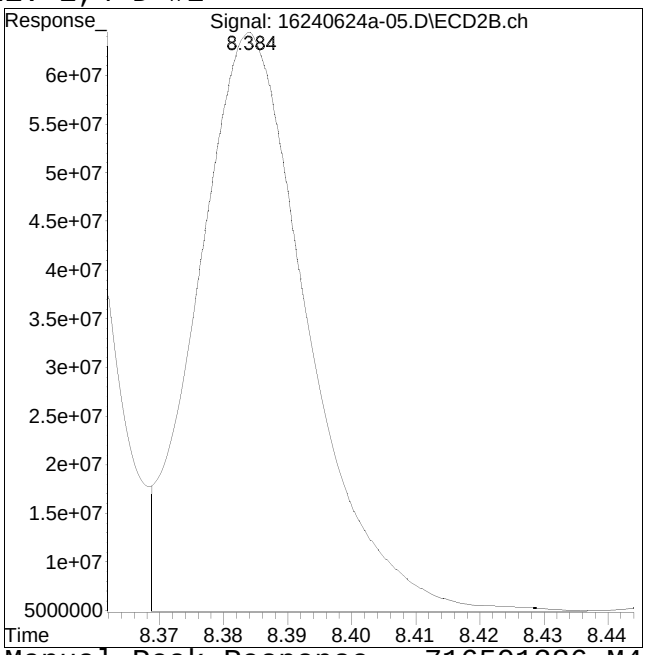
Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240624AQMethod : Herb16_2024_05_21_ICAL21
Data File : 16240624a-05.D Operator : pest16:akm
Date Inj'd : 6/24/2024 13:14 Instrument : PEST16
Sample : WG1938239-2,42,, Quant Date : 6/25/2024 7:41 am

Compound #21: 2,4-D #2



Original Peak Response = 733054765



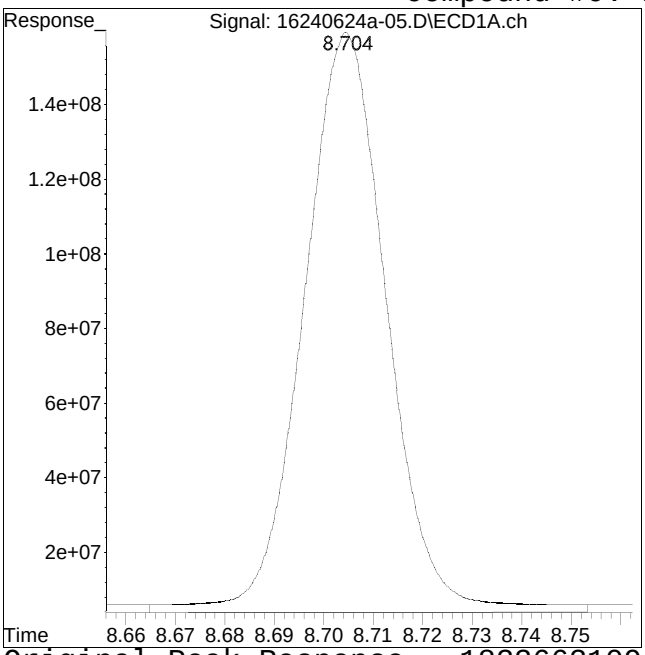
Manual Peak Response = 716501236 M4

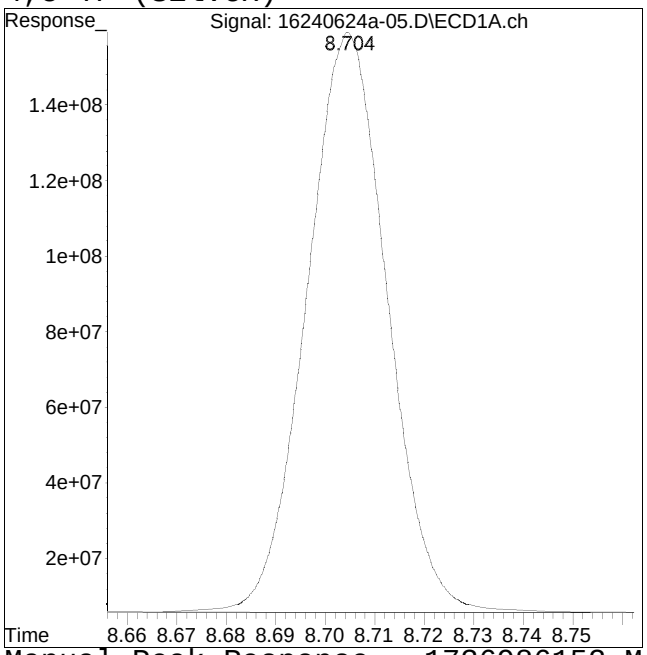
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240624AQMethod : Herb16_2024_05_21_ICAL21
Data File : 16240624a-05.D Operator : pest16:akm
Date Inj'd : 6/24/2024 13:14 Instrument : PEST16
Sample : WG1938239-2,42,, Quant Date : 6/25/2024 7:41 am

Compound #9: 2,4,5-TP (Silvex)



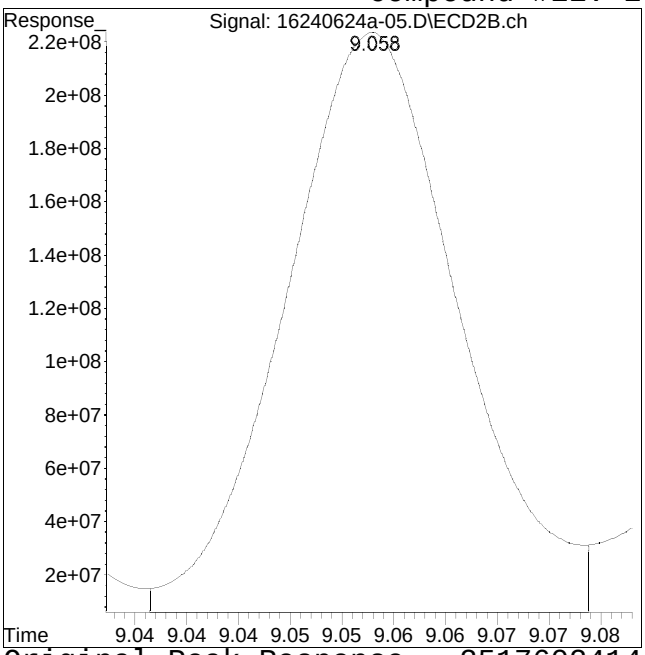


Original Peak Response = 1833663109 Manual Peak Response = 1736986152 M4
M4 = Poor automated baseline construction.

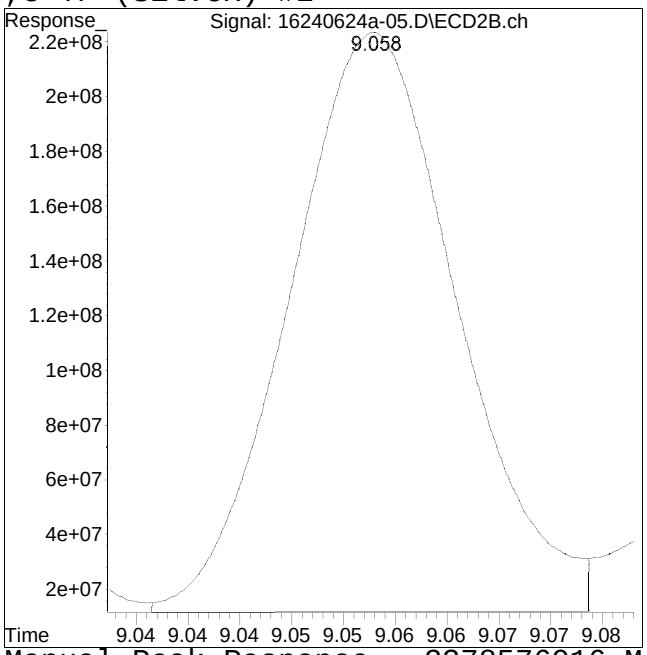
Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240624AQMethod : Herb16_2024_05_21_ICAL21
Data File : 16240624a-05.D Operator : pest16:akm
Date Inj'd : 6/24/2024 13:14 Instrument : PEST16
Sample : WG1938239-2,42,, Quant Date : 6/25/2024 7:41 am

Compound #22: 2,4,5-TP (Silvex) #2



Original Peak Response = 2517602414

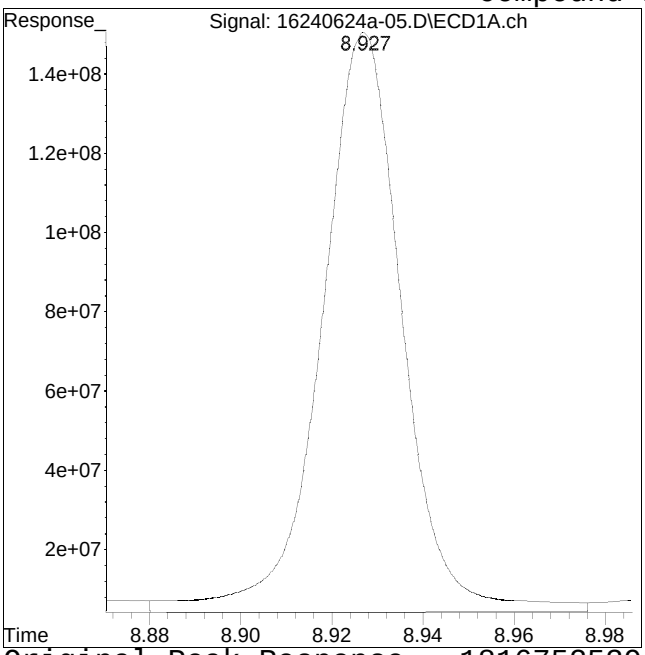


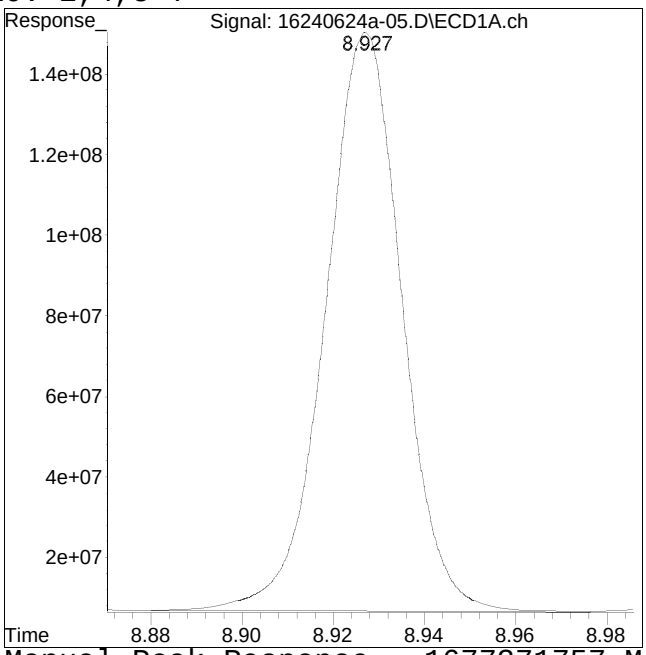
Manual Peak Response = 2378576916 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240624AQMethod : Herb16_2024_05_21_ICAL21
Data File : 16240624a-05.D Operator : pest16:akm
Date Inj'd : 6/24/2024 13:14 Instrument : PEST16
Sample : WG1938239-2,42,, Quant Date : 6/25/2024 7:41 am

Compound #10: 2,4,5-T



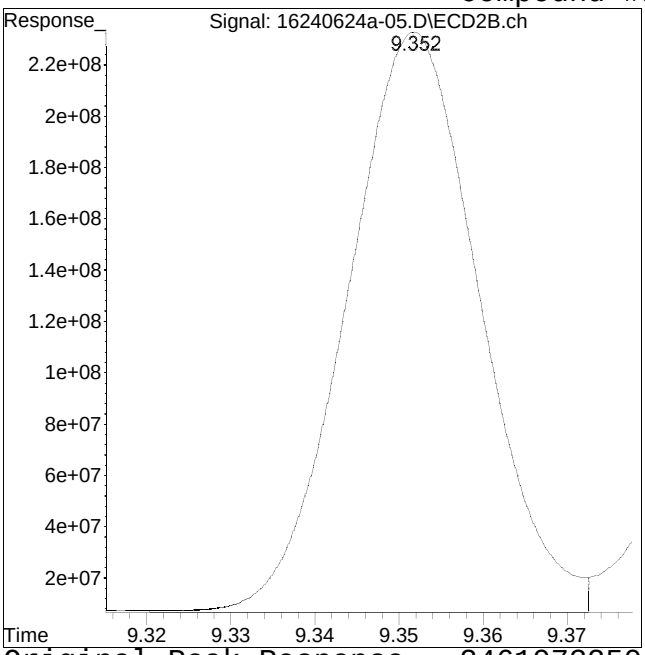


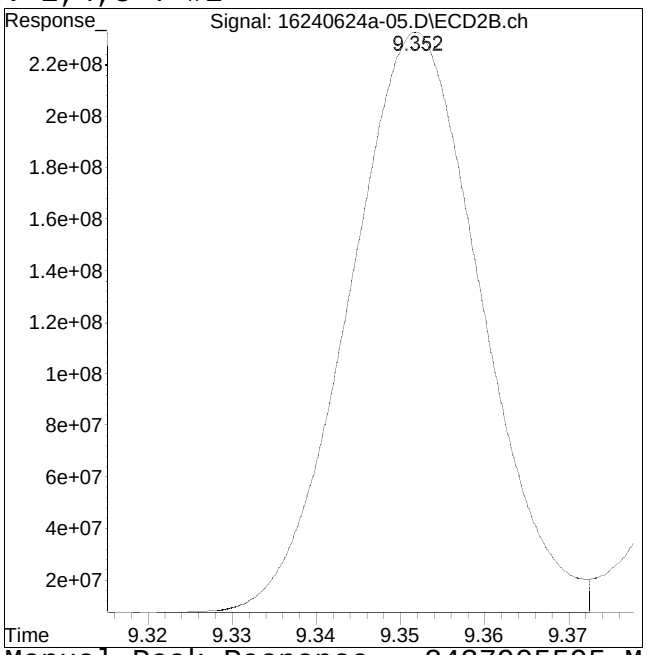
Original Peak Response = 1816752539 Manual Peak Response = 1677371757 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240624AQMethod : Herb16_2024_05_21_ICAL21
Data File : 16240624a-05.D Operator : pest16:akm
Date Inj'd : 6/24/2024 13:14 Instrument : PEST16
Sample : WG1938239-2,42,, Quant Date : 6/25/2024 7:41 am

Compound #23: 2,4,5-T #2





Original Peak Response = 2461073250 Manual Peak Response = 2437905595 M4
M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest16\2024\240624A\
Data File : 16240624a-06.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 24 Jun 2024 13:32
Operator : pest16:akm
Sample : WG1938239-3,42,,
Misc : wg1938572,wg1938239,ical21173
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 25 07:41:42 2024
Quant Method : I:\PCB\Pest16\2024\240624A\Herb16_2024_05_21_ICAL21173.m
Quant Title : herb
QLast Update : Mon Jun 24 06:46:42 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PCB\Pest16\2024\240624A\16240624a-02.D
Sub List : Default - All compounds listed

		Compound	RT#1	RT#2	Resp#1	Resp#2	mg/l	mg/l
		Internal Standards						
1)	i	4,4'-DBOB	8.430	8.348	1072.0E6	1499.9E6	0.250M4	0.250
		Standard Area 1 : #1 = 1148940826				Recovery =	93.30%	
		Standard Area 1 : #2 = 1598088195				Recovery =	93.86%	
		System Monitoring Compounds						
3)	s	DCAA (surrog	6.855f	7.248	168.5E6	568.3E6	0.518	0.592M4
		Spiked Amount 0.500	Range 30 - 150		Recovery =	103.60%	118.40%	
		Target Compounds						
	D							
	D							
8)	t	2,4-D	7.968f	8.381	263.5E6	695.1E6	0.464M4	0.535M3
9)	t	2,4,5-TP (Si	8.702	9.055	1706.9E6	2307.6E6	0.509M4	0.497M4
10)	t	2,4,5-T	8.924	9.349	1635.1E6	2365.0E6	0.558M4	0.567M4

SemiQuant Compounds - Not Calibrated on this Instrument

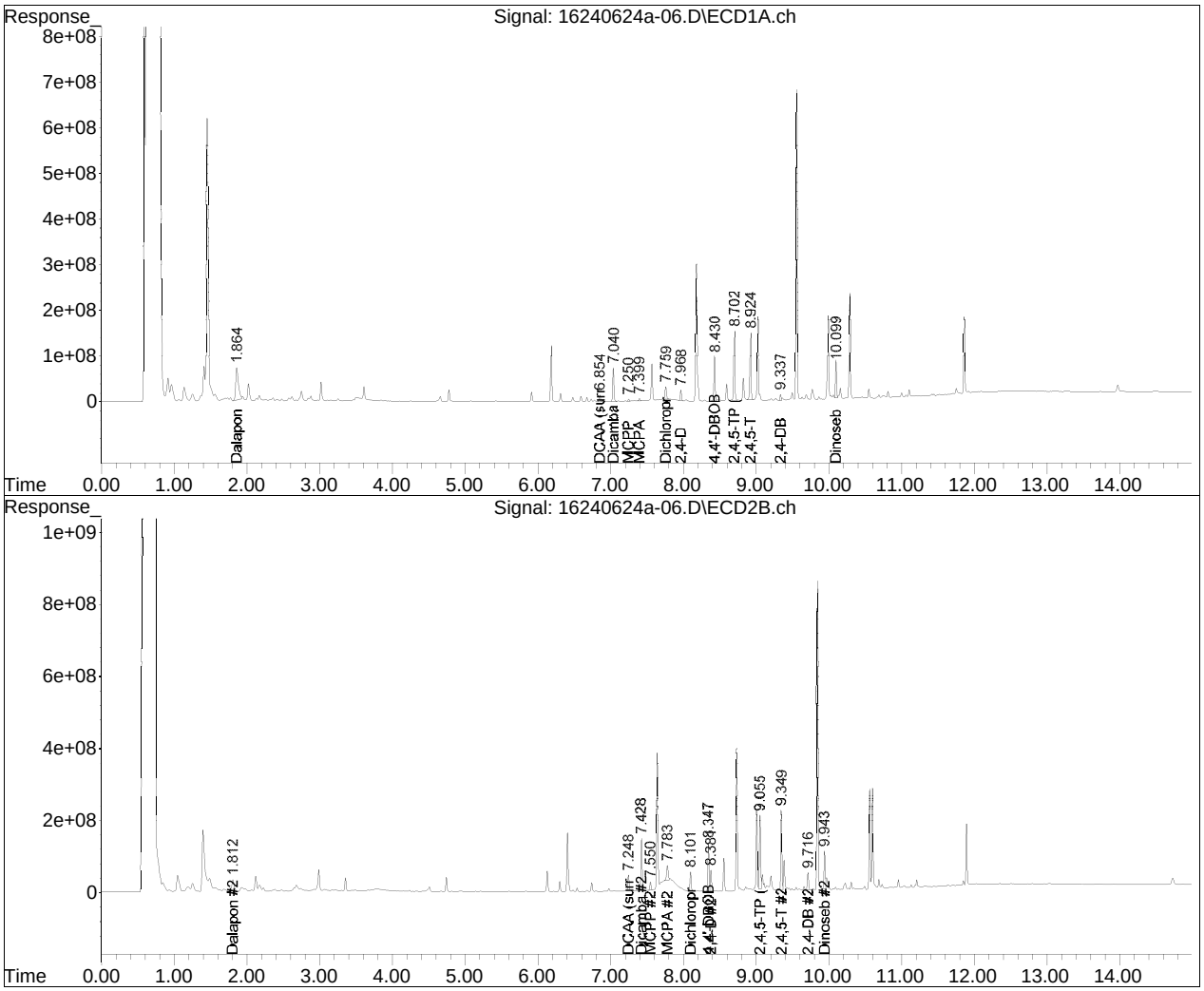
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed\16240624a-02.D•

Data Path : I:\PCB\Pest16\2024\240624A\
Data File : 16240624a-06.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 24 Jun 2024 13:32
Operator : pest16:akm
Sample : WG1938239-3,42,,
Misc : wg1938572,wg1938239,ical21173
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 25 07:41:42 2024
Quant Method : I:\PCB\Pest16\2024\240624A\Herb16_2024_05_21_ICAL21173.m
Quant Title : herb
QLast Update : Mon Jun 24 06:46:42 2024
Response via : Initial Calibration
Integrator: ChemStation

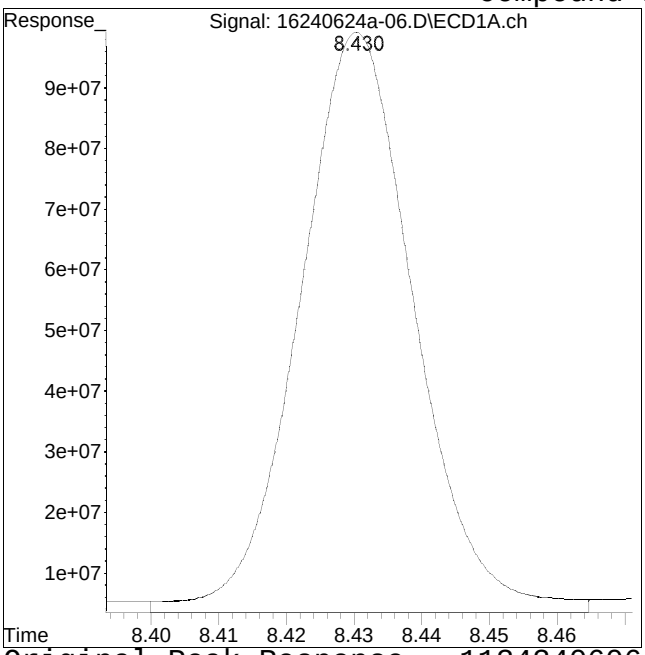
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

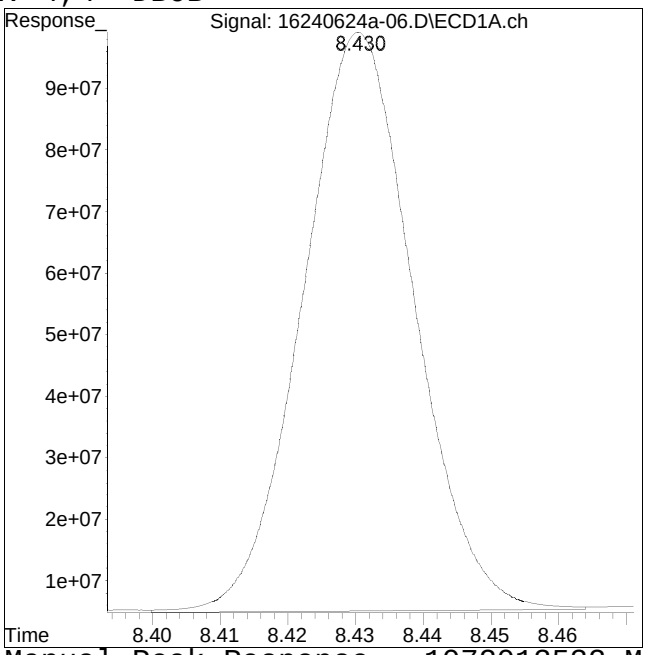


Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240624AQMethod : Herb16_2024_05_21_ICAL21
Data File : 16240624a-06.D Operator : pest16:akm
Date Inj'd : 6/24/2024 13:32 Instrument : PEST16
Sample : WG1938239-3,42,, Quant Date : 6/25/2024 7:41 am

Compound #1: 4,4'-DBOB



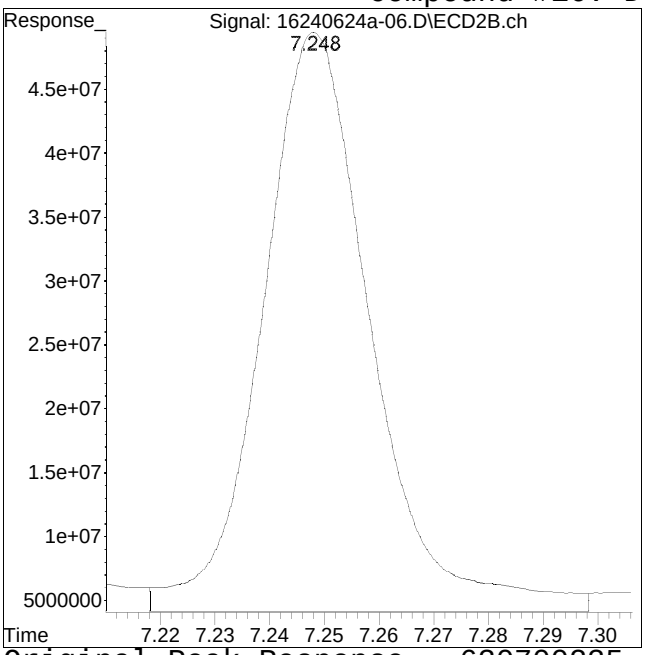


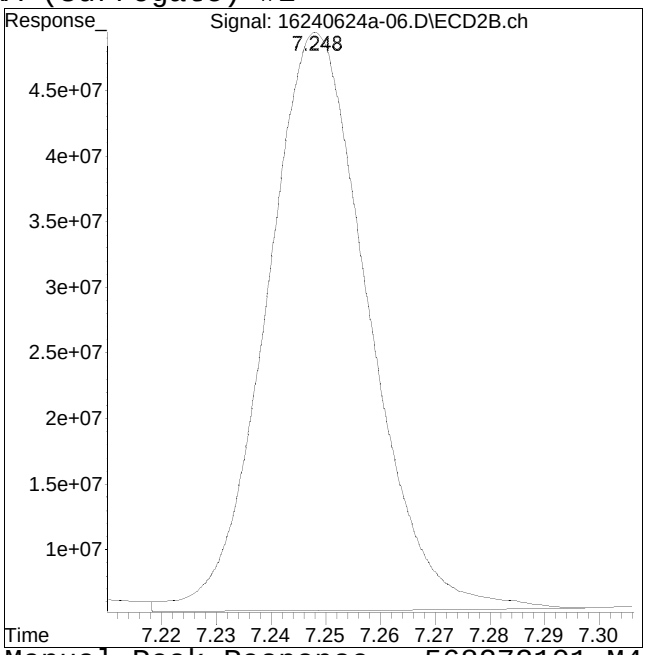
Original Peak Response = 1134340606 Manual Peak Response = 1072013532 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240624AQMethod : Herb16_2024_05_21_ICAL21
Data File : 16240624a-06.D Operator : pest16:akm
Date Inj'd : 6/24/2024 13:32 Instrument : PEST16
Sample : WG1938239-3,42,, Quant Date : 6/25/2024 7:41 am

Compound #16: DCAA (surrogate) #2



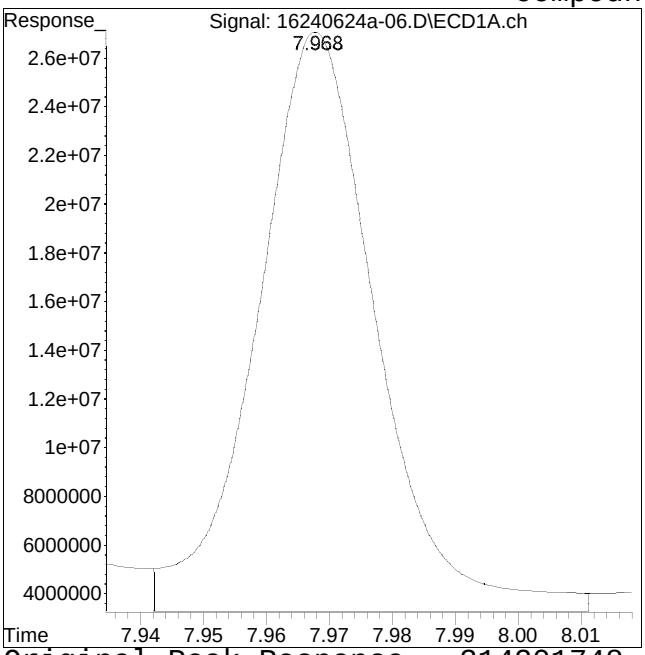


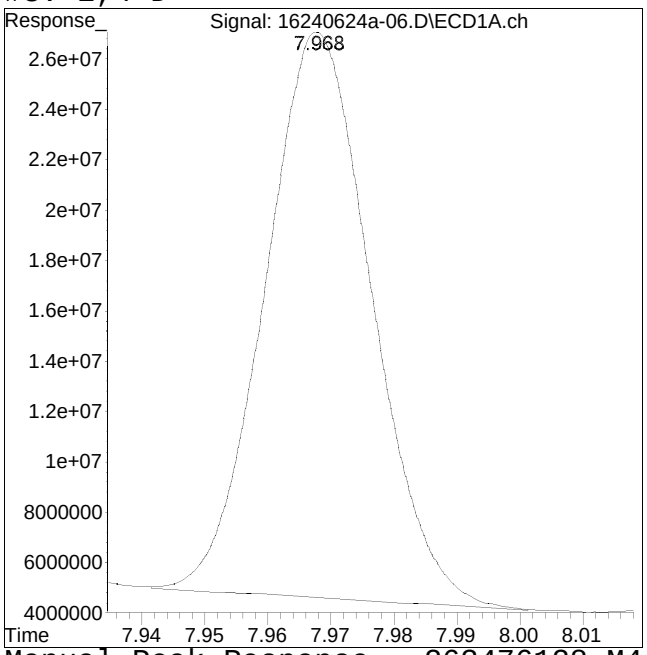
Original Peak Response = 630700235 Manual Peak Response = 568272101 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240624AQMethod : Herb16_2024_05_21_ICAL21
Data File : 16240624a-06.D Operator : pest16:akm
Date Inj'd : 6/24/2024 13:32 Instrument : PEST16
Sample : WG1938239-3,42,, Quant Date : 6/25/2024 7:41 am

Compound #8: 2,4-D



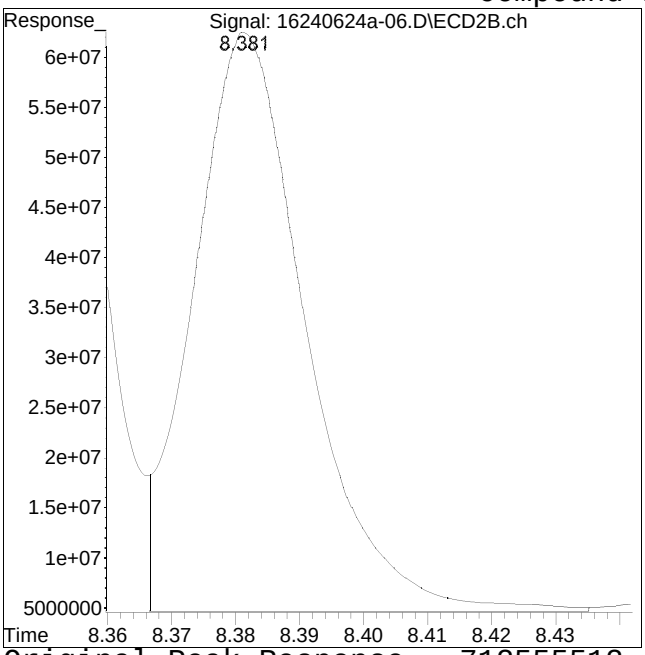


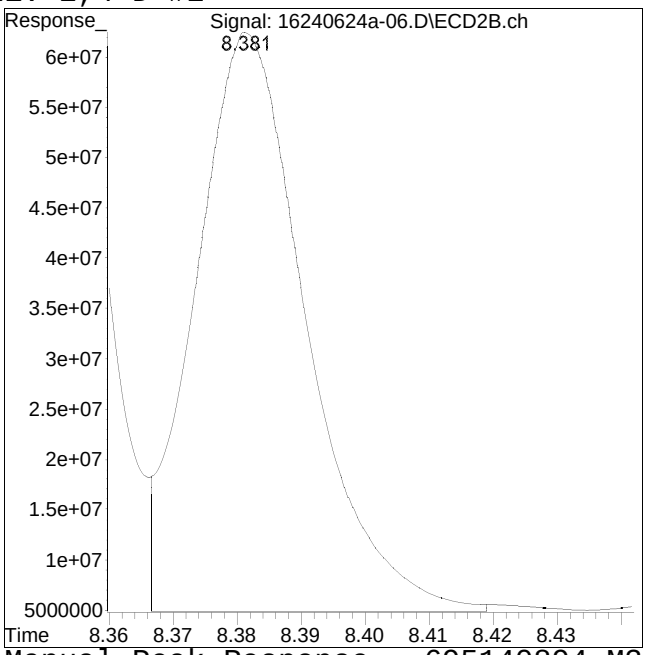
Original Peak Response = 314201748 Manual Peak Response = 263476128 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240624AQMethod : Herb16_2024_05_21_ICAL21
Data File : 16240624a-06.D Operator : pest16:akm
Date Inj'd : 6/24/2024 13:32 Instrument : PEST16
Sample : WG1938239-3,42,, Quant Date : 6/25/2024 7:41 am

Compound #21: 2,4-D #2



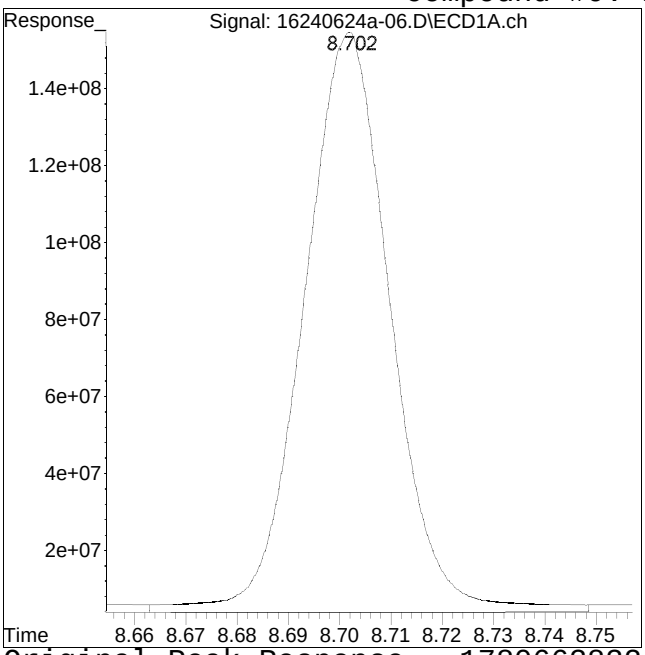


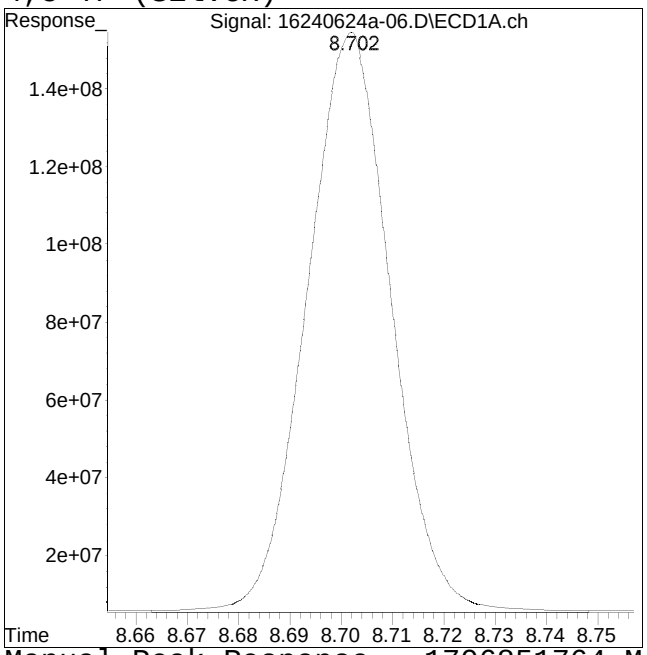
Original Peak Response = 712555512 Manual Peak Response = 695140894 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240624AQMethod : Herb16_2024_05_21_ICAL21
Data File : 16240624a-06.D Operator : pest16:akm
Date Inj'd : 6/24/2024 13:32 Instrument : PEST16
Sample : WG1938239-3,42,, Quant Date : 6/25/2024 7:41 am

Compound #9: 2,4,5-TP (Silvex)



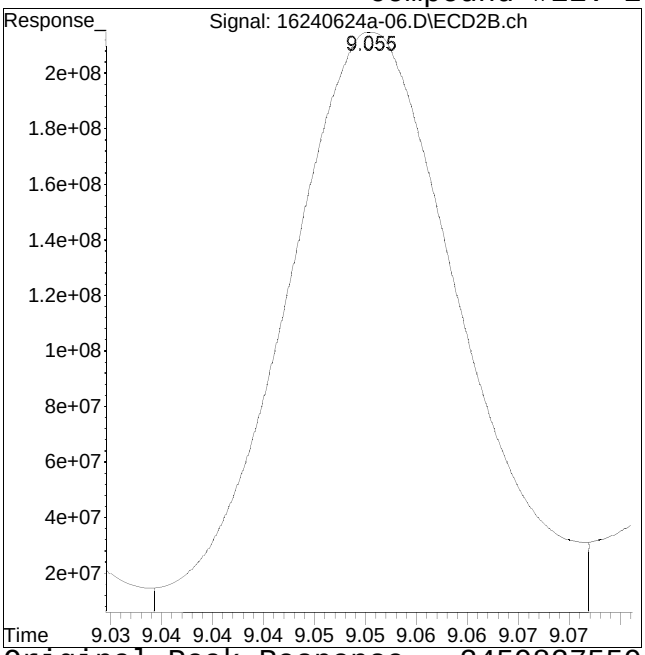


Original Peak Response = 1780663832 Manual Peak Response = 1706851764 M4
M4 = Poor automated baseline construction.

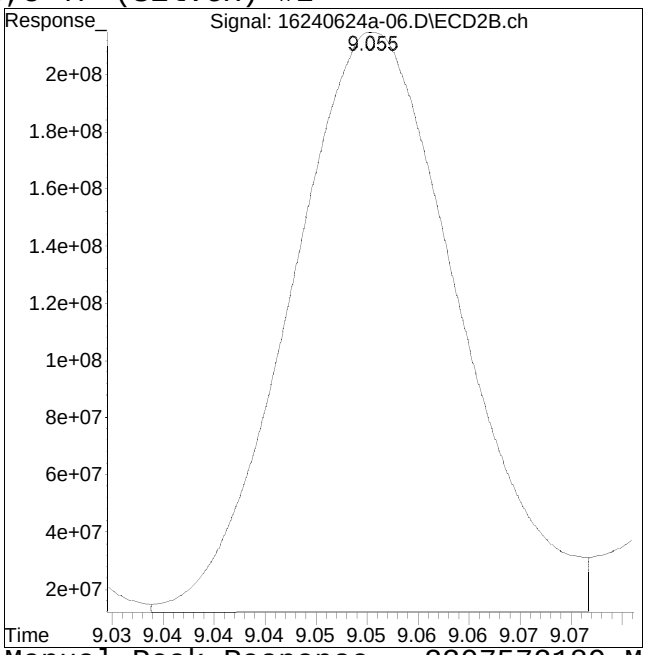
Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240624AQMethod : Herb16_2024_05_21_ICAL21
Data File : 16240624a-06.D Operator : pest16:akm
Date Inj'd : 6/24/2024 13:32 Instrument : PEST16
Sample : WG1938239-3,42,, Quant Date : 6/25/2024 7:41 am

Compound #22: 2,4,5-TP (Silvex) #2



Original Peak Response = 2459827559



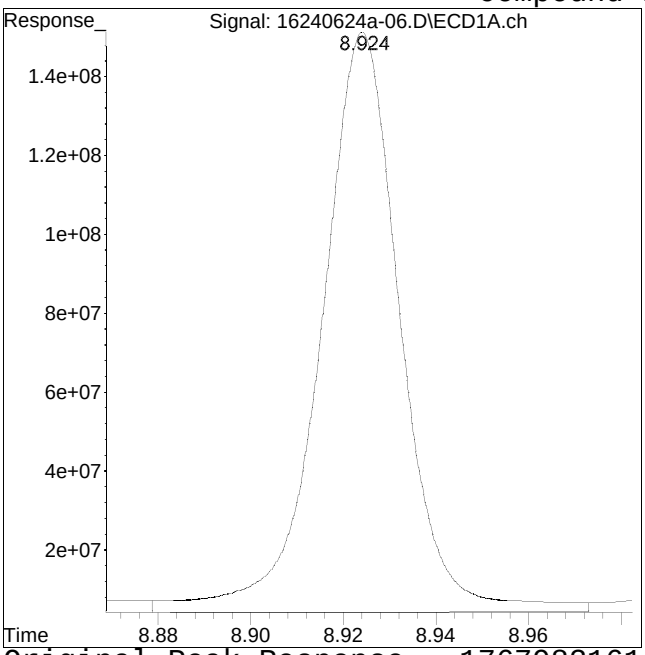
Manual Peak Response = 2307572189 M4

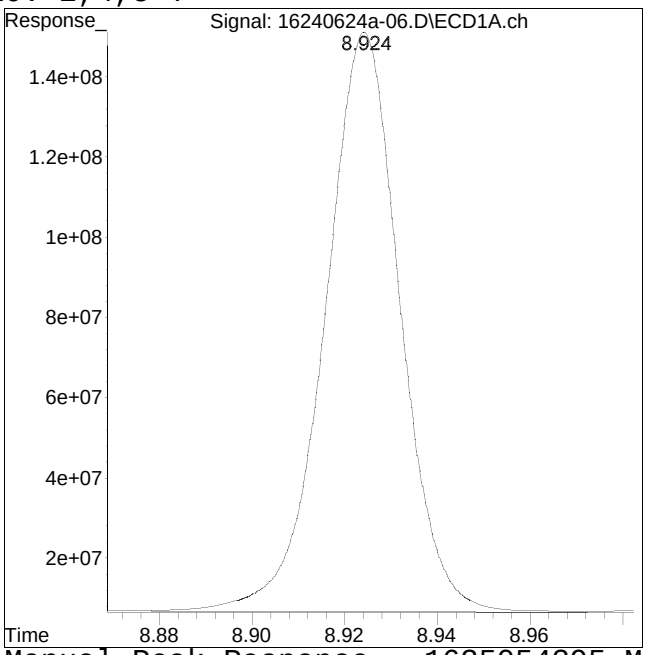
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240624AQMethod : Herb16_2024_05_21_ICAL21
Data File : 16240624a-06.D Operator : pest16:akm
Date Inj'd : 6/24/2024 13:32 Instrument : PEST16
Sample : WG1938239-3,42,, Quant Date : 6/25/2024 7:41 am

Compound #10: 2,4,5-T



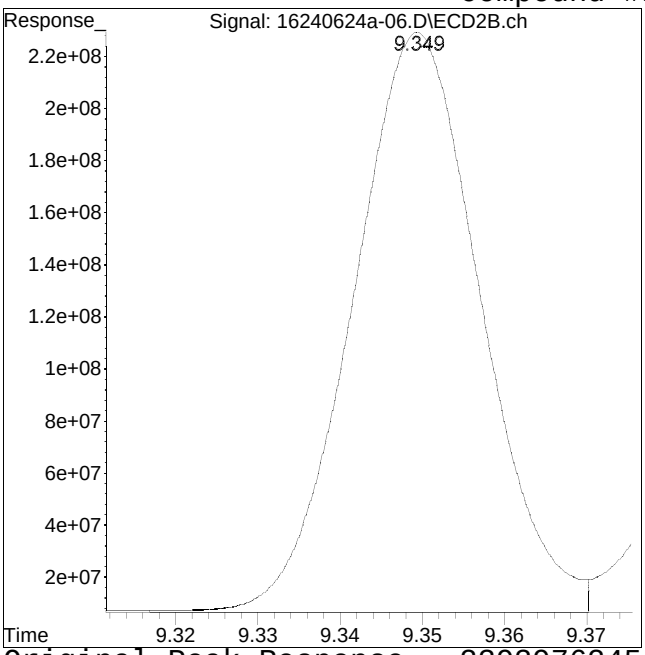


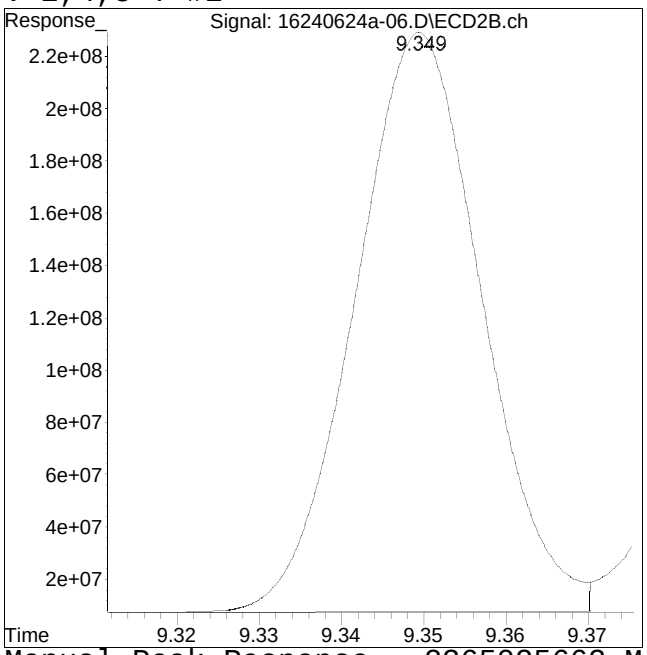
Original Peak Response = 1767983161 Manual Peak Response = 1635054395 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240624AQMethod : Herb16_2024_05_21_ICAL21
Data File : 16240624a-06.D Operator : pest16:akm
Date Inj'd : 6/24/2024 13:32 Instrument : PEST16
Sample : WG1938239-3,42,, Quant Date : 6/25/2024 7:41 am

Compound #23: 2,4,5-T #2





Original Peak Response = 2393976245 Manual Peak Response = 2365025662 M4
M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest22\2024\240624a\
Data File : 22240624a-30.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 24 Jun 2024 22:01
Operator : pest22:jag
Sample : WG1938239-4,42,, ms
Misc : wg1938492,WG1938239,ical21040
ALS Vial : 30 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 25 06:47:51 2024
Quant Method : I:\PEST\Pest22\2024\240624a\Herb22_2024_04_12_mgL_ICAL21040.m
Quant Title : herb
QLast Update : Sun Jun 23 09:11:26 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PEST\Pest22\2024\240624a\22240624a-20.D
Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	mg/l	mg/l
	Internal Standards						
1) i	4,4'-DBOB	8.527	8.523	863.1E6	924.6E6	0.250M4	0.250M3
	Standard Area 1 : #1 = 1169717395				Recovery =	73.79%	
	Standard Area 1 : #2 = 1259817404				Recovery =	73.39%	
	System Monitoring Compounds						
3) s	DCAA (surrog	6.982	7.452	232.5E6	315.5E6	0.327M4	0.421M4
	Spiked Amount	0.500	Range 30 - 150		Recovery =	65.40%	84.20%
	Target Compounds						
8) t	2,4-D	8.085	8.565	272.5E6	341.6E6	0.329M4	0.389M3
9) t	2,4,5-TP (Si	8.798	9.221	1124.1E6	1202.7E6	0.375M4	0.380M4
10) t	2,4,5-T	9.018	9.510	1120.7E6	1208.4E6	0.381M4	0.393M3

SemiQuant Compounds - Not Calibrated on this Instrument

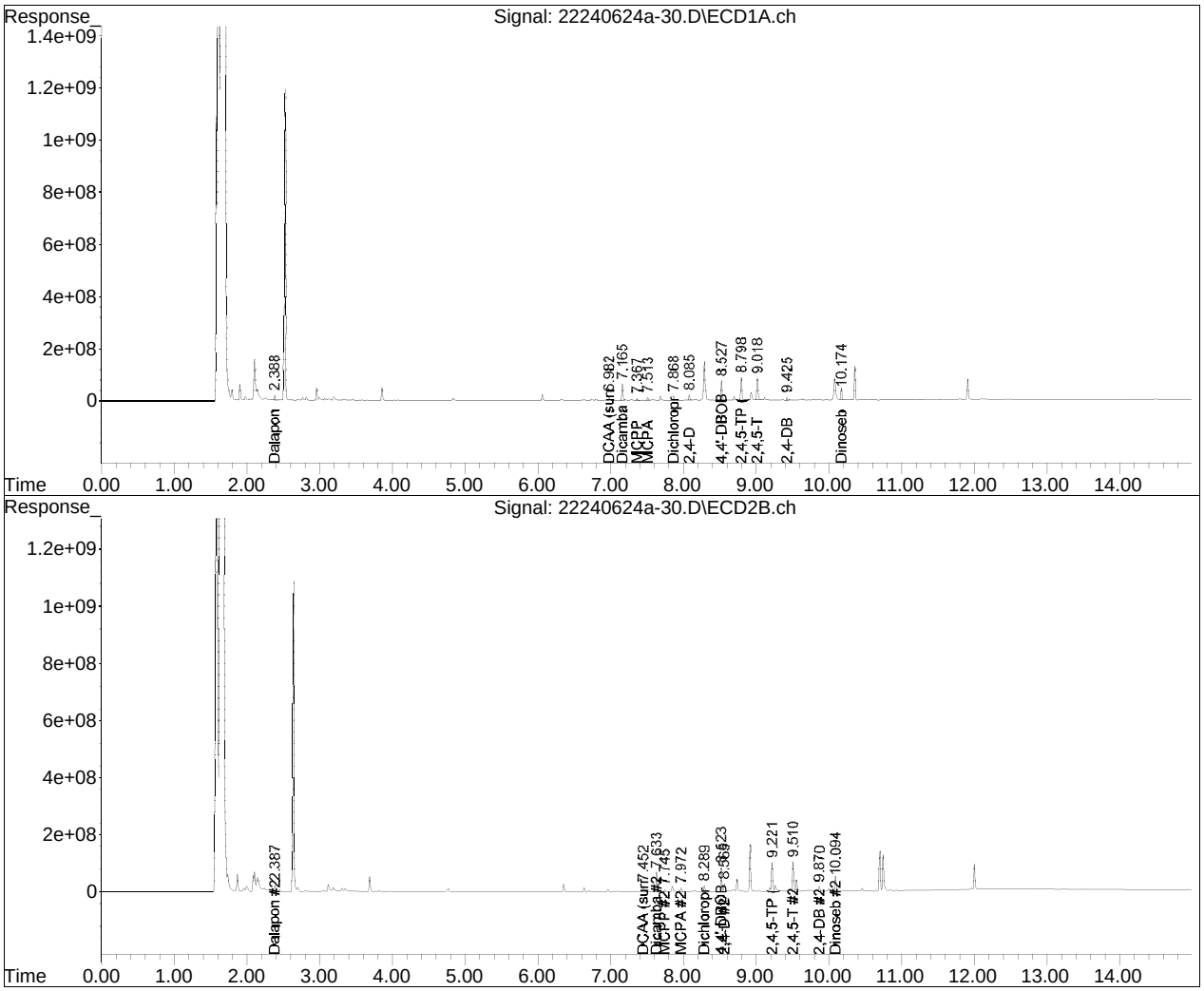
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listeda\22240624a-20.D•

Data Path : I:\PEST\Pest22\2024\240624a\
Data File : 22240624a-30.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 24 Jun 2024 22:01
Operator : pest22:jag
Sample : WG1938239-4,42,, ms
Misc : wg1938492,WG1938239,ical21040
ALS Vial : 30 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 25 06:47:51 2024
Quant Method : I:\PEST\Pest22\2024\240624a\Herb22_2024_04_12_mgL_ICAL21040.m
Quant Title : herb
QLast Update : Sun Jun 23 09:11:26 2024
Response via : Initial Calibration
Integrator: ChemStation

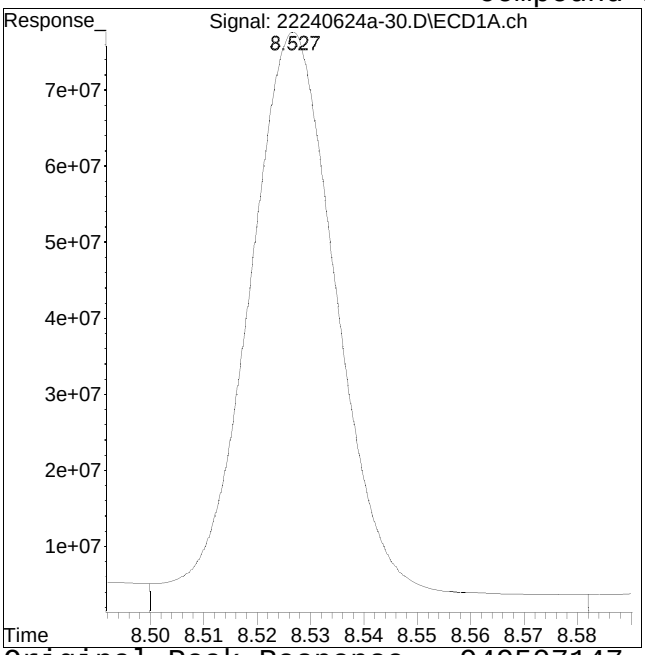
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



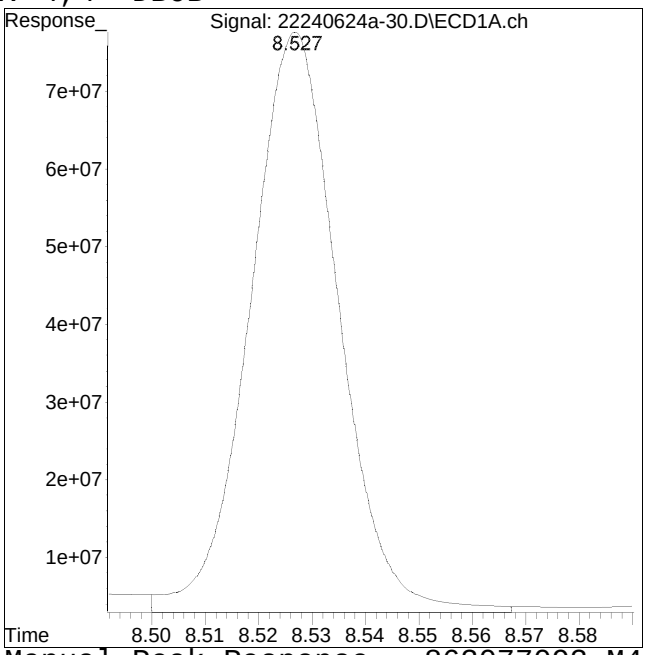
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240624QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240624a-30.D Operator : pest22:jag
Date Inj'd : 6/24/2024 22:01 Instrument : Pest22
Sample : WG1938239-4,42,, ms Quant Date : 6/25/2024 6:47 am

Compound #1: 4,4'-DBOB



Original Peak Response = 949507147



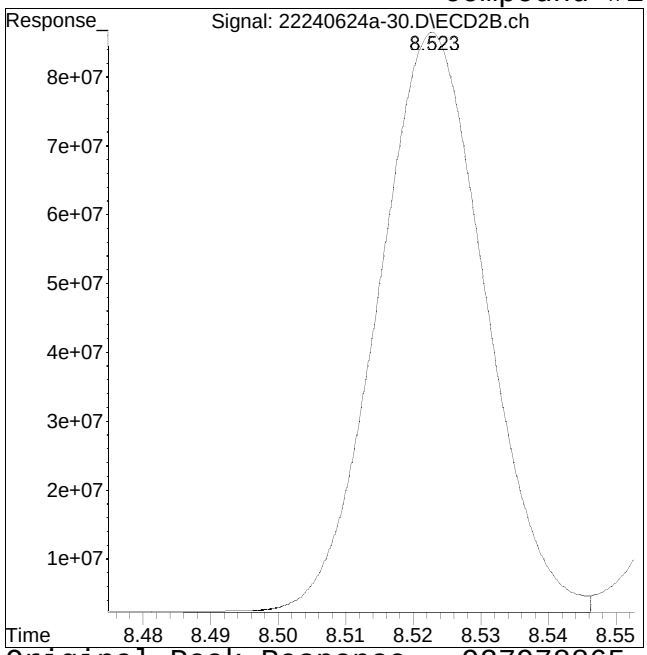
Manual Peak Response = 863077093 M4

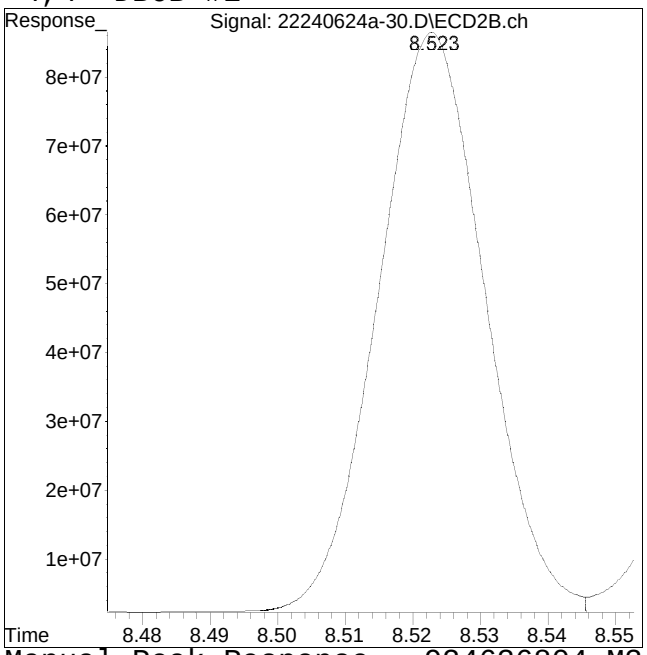
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240624QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240624a-30.D Operator : pest22:jag
Date Inj'd : 6/24/2024 22:01 Instrument : Pest22
Sample : WG1938239-4,42,, ms Quant Date : 6/25/2024 6:47 am

Compound #14: 4,4'-DBOB #2



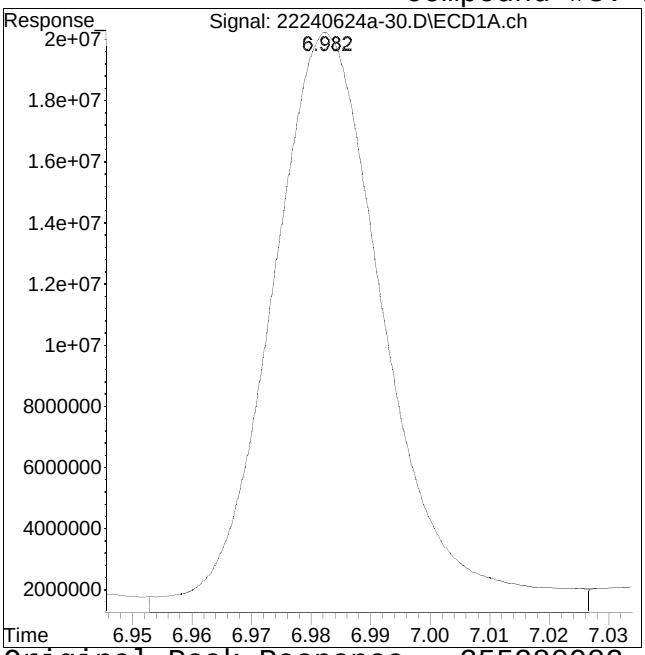


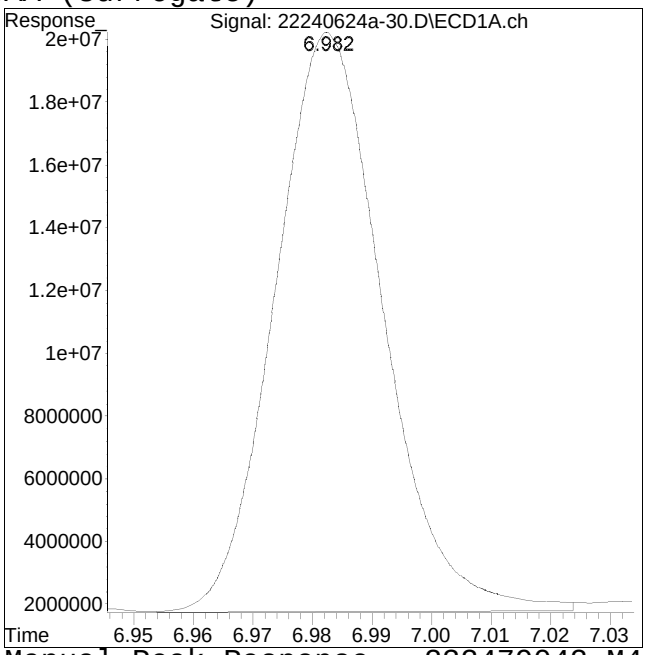
Original Peak Response = 927978865 Manual Peak Response = 924636804 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240624QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240624a-30.D Operator : pest22:jag
Date Inj'd : 6/24/2024 22:01 Instrument : Pest22
Sample : WG1938239-4,42,, ms Quant Date : 6/25/2024 6:47 am

Compound #3: DCAA (surrogate)



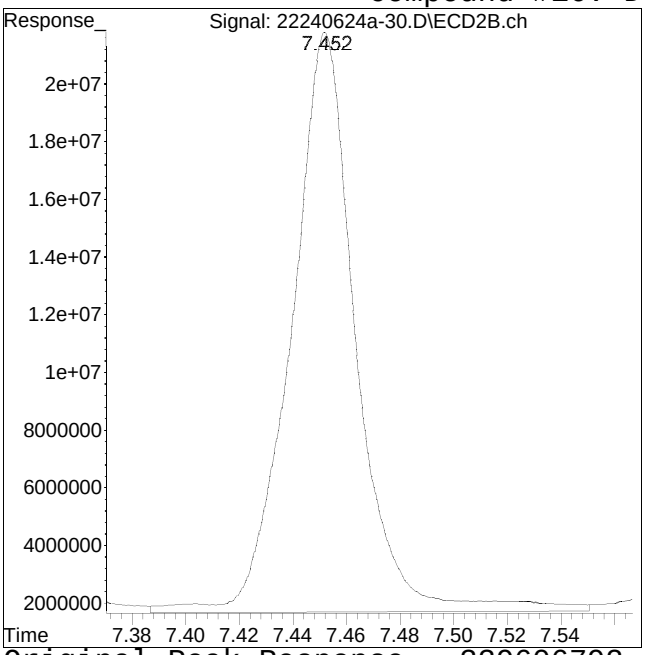


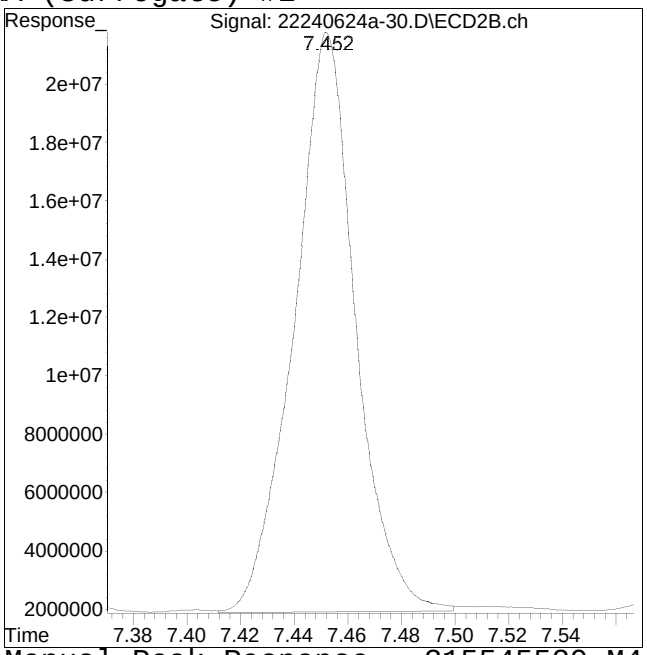
Original Peak Response = 255280982 Manual Peak Response = 232479042 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240624QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240624a-30.D Operator : pest22:jag
Date Inj'd : 6/24/2024 22:01 Instrument : Pest22
Sample : WG1938239-4,42,, ms Quant Date : 6/25/2024 6:47 am

Compound #16: DCAA (surrogate) #2



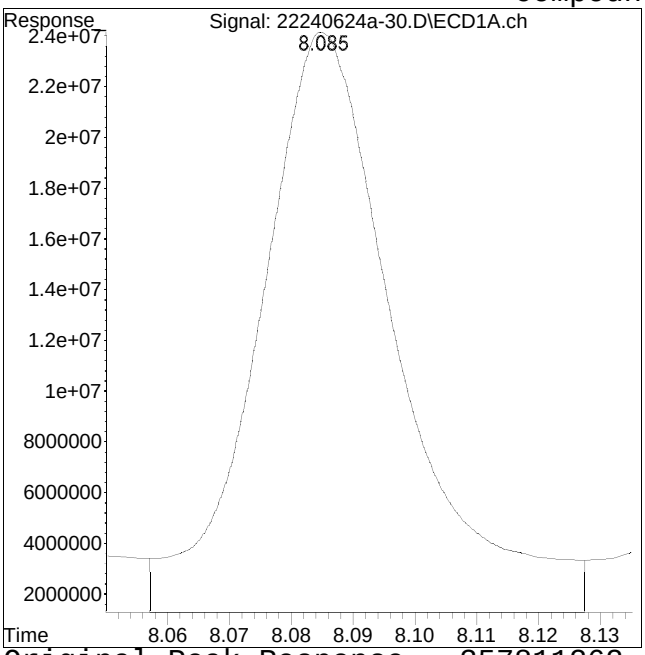


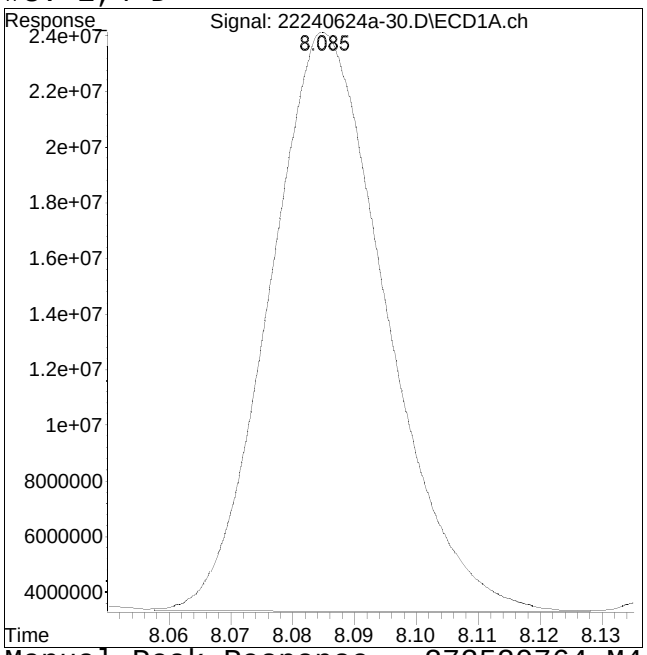
Original Peak Response = 339606792 Manual Peak Response = 315545520 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240624QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240624a-30.D Operator : pest22:jag
Date Inj'd : 6/24/2024 22:01 Instrument : Pest22
Sample : WG1938239-4,42,, ms Quant Date : 6/25/2024 6:47 am

Compound #8: 2,4-D



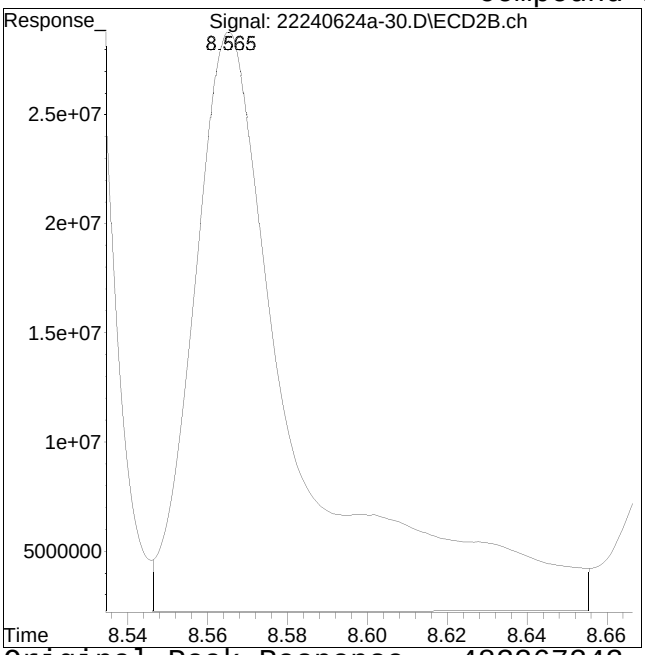


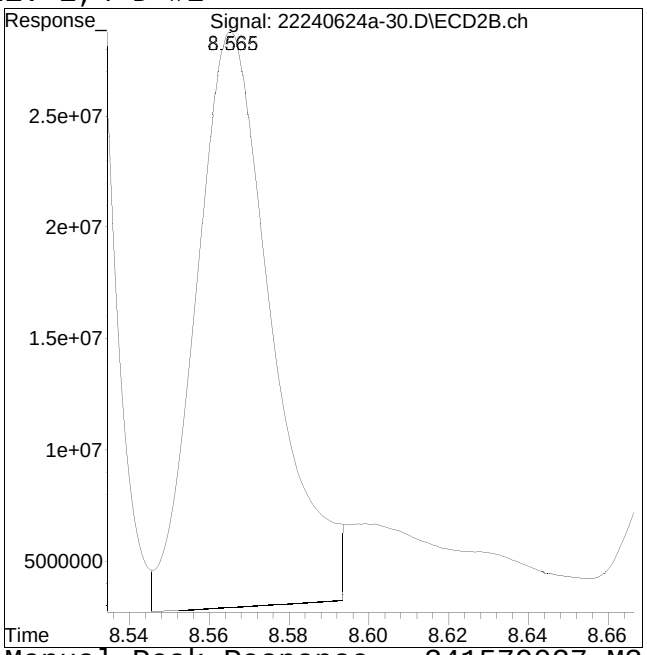
Original Peak Response = 357811262 Manual Peak Response = 272520764 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240624QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240624a-30.D Operator : pest22:jag
Date Inj'd : 6/24/2024 22:01 Instrument : Pest22
Sample : WG1938239-4,42,, ms Quant Date : 6/25/2024 6:47 am

Compound #21: 2,4-D #2



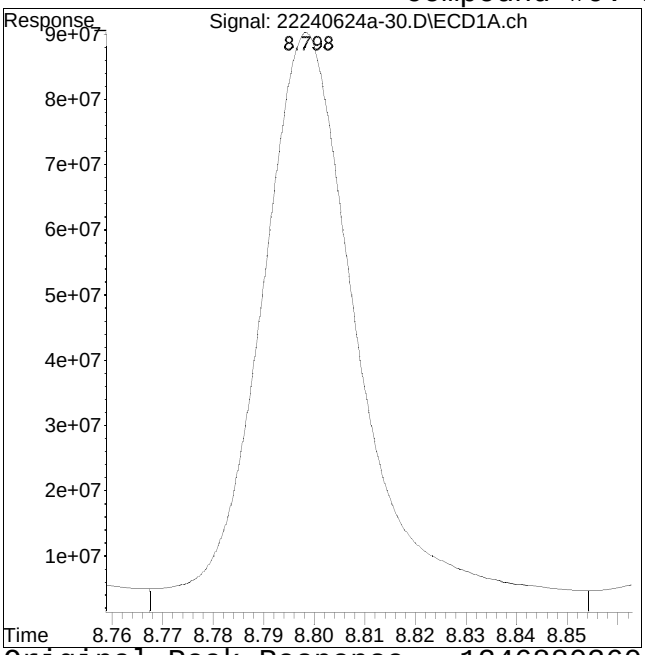


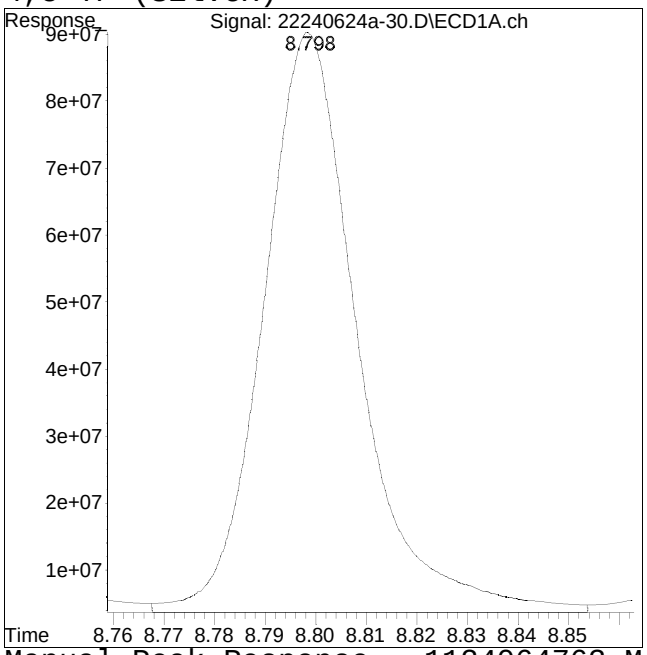
Original Peak Response = 483367343 Manual Peak Response = 341579027 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240624QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240624a-30.D Operator : pest22:jag
Date Inj'd : 6/24/2024 22:01 Instrument : Pest22
Sample : WG1938239-4,42,, ms Quant Date : 6/25/2024 6:47 am

Compound #9: 2,4,5-TP (Silvex)



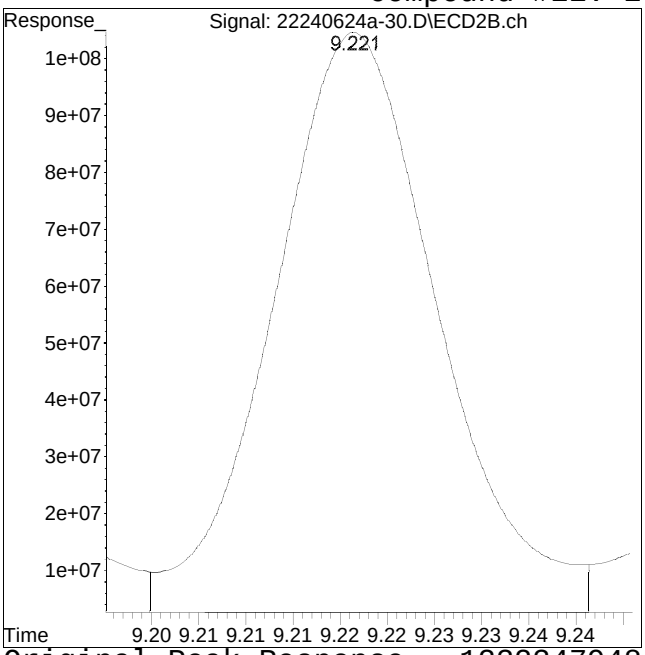


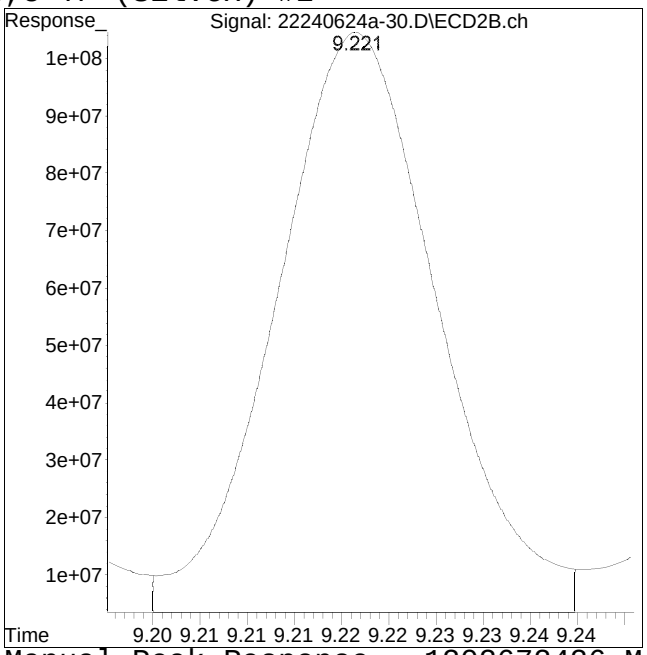
Original Peak Response = 1246880360 Manual Peak Response = 1124064763 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240624QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240624a-30.D Operator : pest22:jag
Date Inj'd : 6/24/2024 22:01 Instrument : Pest22
Sample : WG1938239-4,42,, ms Quant Date : 6/25/2024 6:47 am

Compound #22: 2,4,5-TP (Silvex) #2



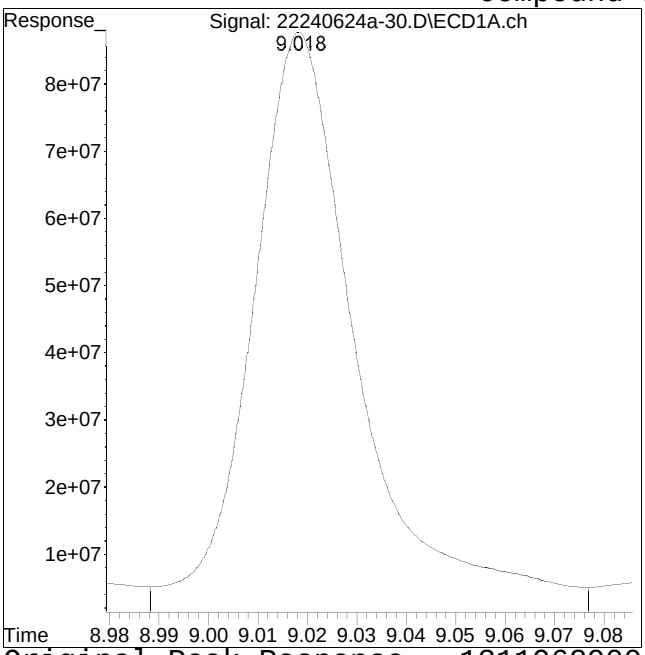


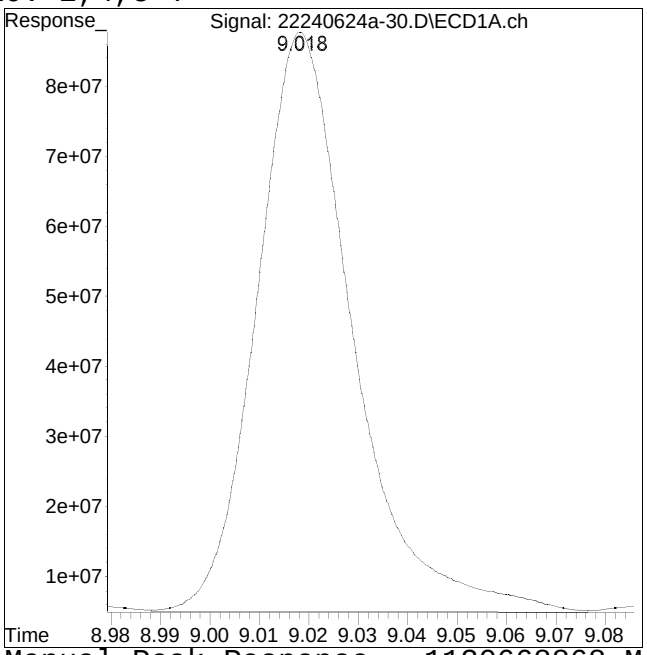
Original Peak Response = 1232347948 Manual Peak Response = 1202672426 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240624QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240624a-30.D Operator : pest22:jag
Date Inj'd : 6/24/2024 22:01 Instrument : Pest22
Sample : WG1938239-4,42,, ms Quant Date : 6/25/2024 6:47 am

Compound #10: 2,4,5-T



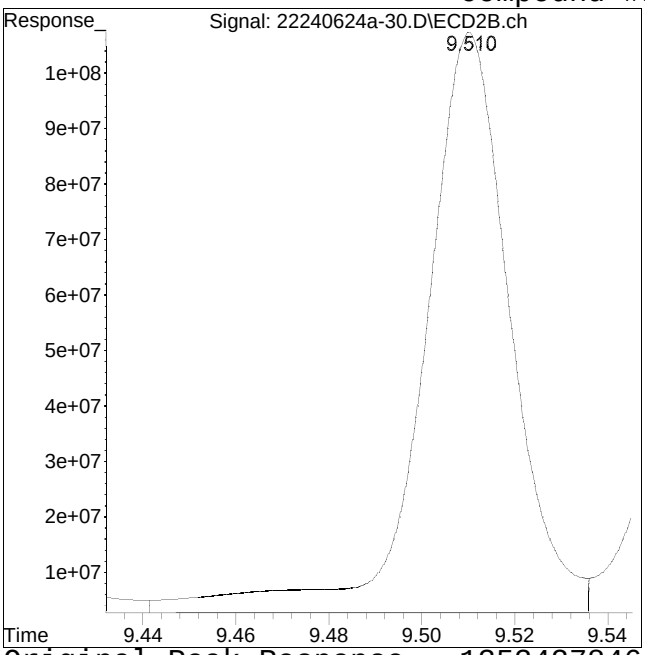


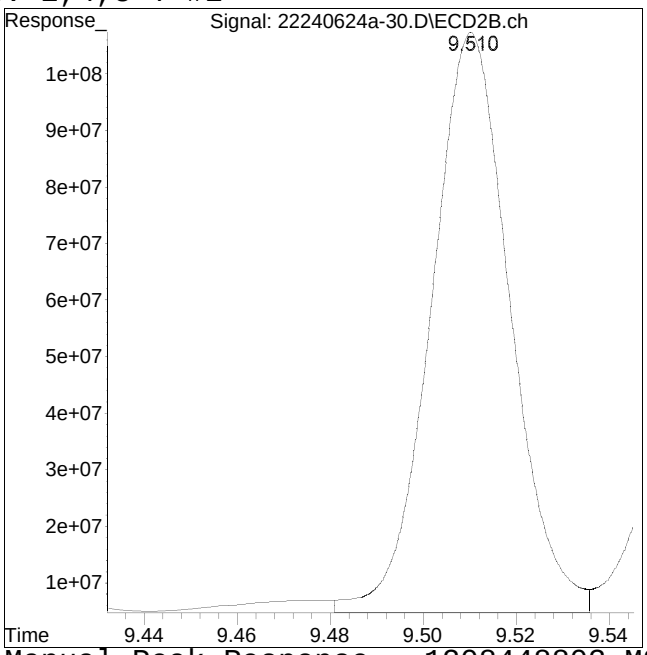
Original Peak Response = 1311962900 Manual Peak Response = 1120668868 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240624QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240624a-30.D Operator : pest22:jag
Date Inj'd : 6/24/2024 22:01 Instrument : Pest22
Sample : WG1938239-4,42,, ms Quant Date : 6/25/2024 6:47 am

Compound #23: 2,4,5-T #2





Original Peak Response = 1353427846 Manual Peak Response = 1208448803 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest22\2024\240624a\
Data File : 22240624a-31.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 24 Jun 2024 22:20
Operator : pest22:jag
Sample : WG1938239-5,42,, msd
Misc : wg1938492,WG1938239,ical21040
ALS Vial : 31 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 25 06:47:53 2024
Quant Method : I:\PEST\Pest22\2024\240624a\Herb22_2024_04_12_mgL_ICAL21040.m
Quant Title : herb
QLast Update : Sun Jun 23 09:11:26 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PEST\Pest22\2024\240624a\22240624a-20.D
Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	mg/l	mg/l
	Internal Standards						
1) i	4,4'-DBOB	8.527	8.523	902.2E6	970.7E6	0.250M4	0.250M4
	Standard Area 1 : #1 = 1169717395				Recovery =	77.13%	
	Standard Area 1 : #2 = 1259817404				Recovery =	77.05%	
	System Monitoring Compounds						
3) s	DCAA (surrog	6.982	7.452	283.5E6	360.2E6	0.382M4	0.458M4
	Spiked Amount	0.500	Range 30 - 150		Recovery =	76.40%	91.60%
	Target Compounds						
8) t	2,4-D	8.085	8.565	363.3E6	443.4E6	0.420M4	0.481M4
9) t	2,4,5-TP (Si	8.799	9.222	1342.8E6	1469.9E6	0.429M4	0.442M4
10) t	2,4,5-T	9.019	9.510	1420.3E6	1429.8E6	0.461M4	0.443M4
	SemiQuant Compounds - Not Calibrated on this Instrument						

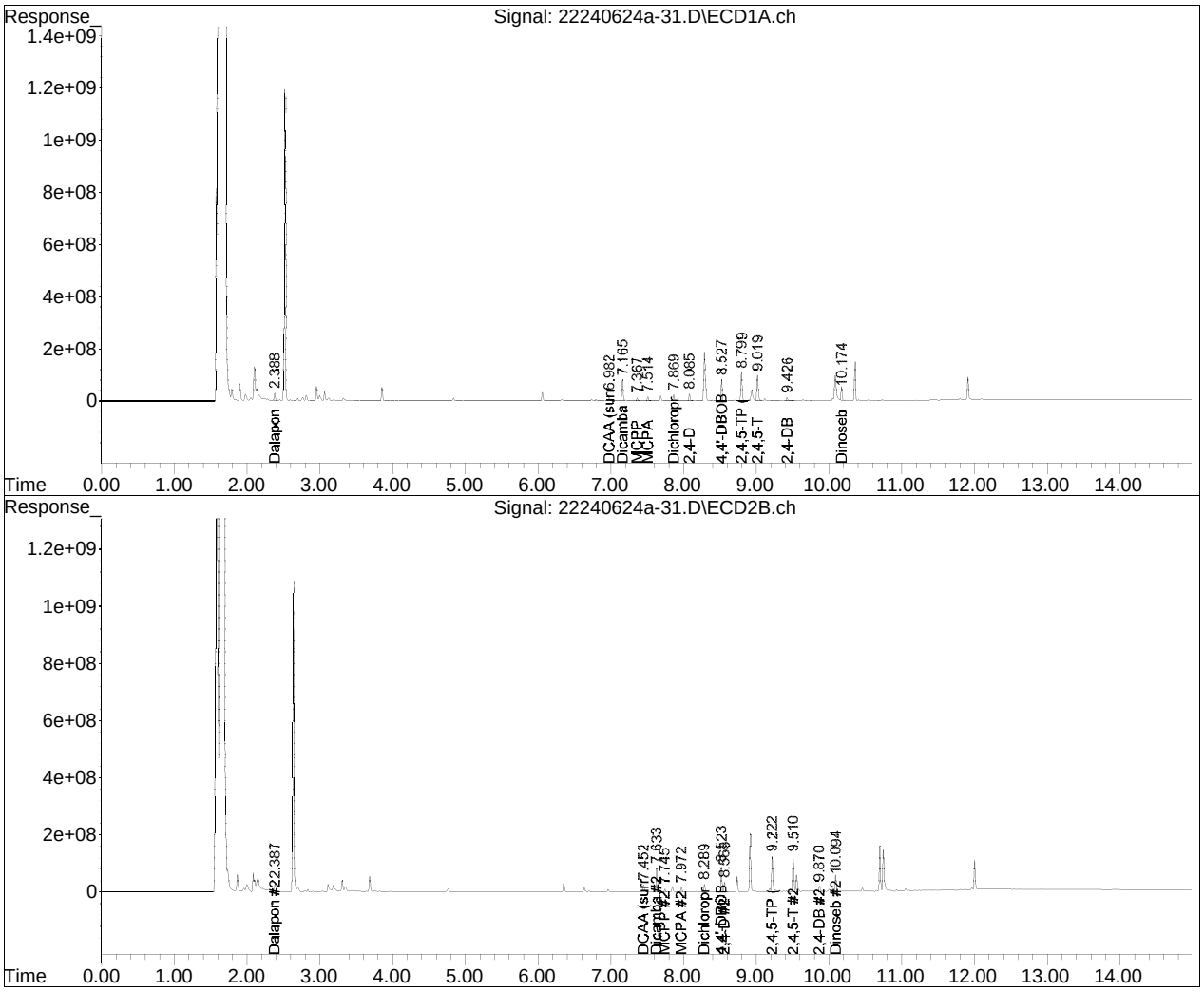
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listeda\22240624a-20.D•

Data Path : I:\PEST\Pest22\2024\240624a\
Data File : 22240624a-31.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 24 Jun 2024 22:20
Operator : pest22:jag
Sample : WG1938239-5,42,, msd
Misc : wg1938492,WG1938239,ical21040
ALS Vial : 31 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 25 06:47:53 2024
Quant Method : I:\PEST\Pest22\2024\240624a\Herb22_2024_04_12_mgL_ICAL21040.m
Quant Title : herb
QLast Update : Sun Jun 23 09:11:26 2024
Response via : Initial Calibration
Integrator: ChemStation

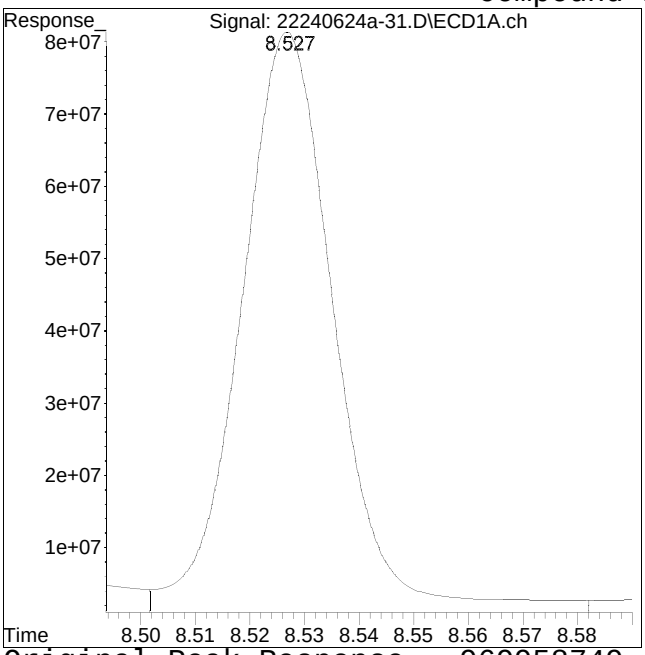
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

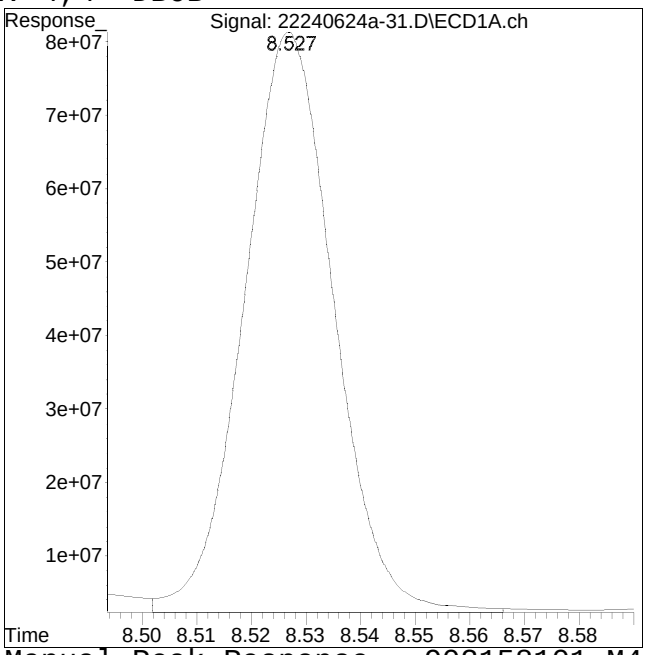


Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240624QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240624a-31.D Operator : pest22:jag
Date Inj'd : 6/24/2024 22:20 Instrument : Pest22
Sample : WG1938239-5,42,, msd Quant Date : 6/25/2024 6:47 am

Compound #1: 4,4'-DBOB



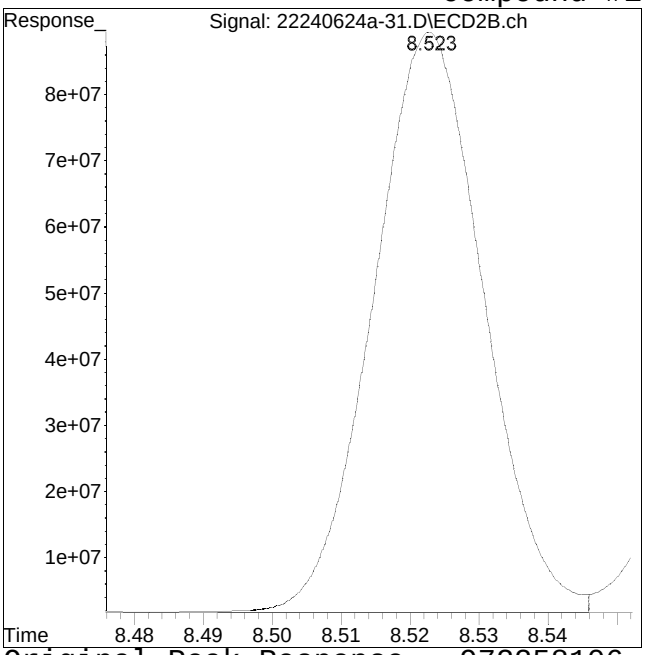


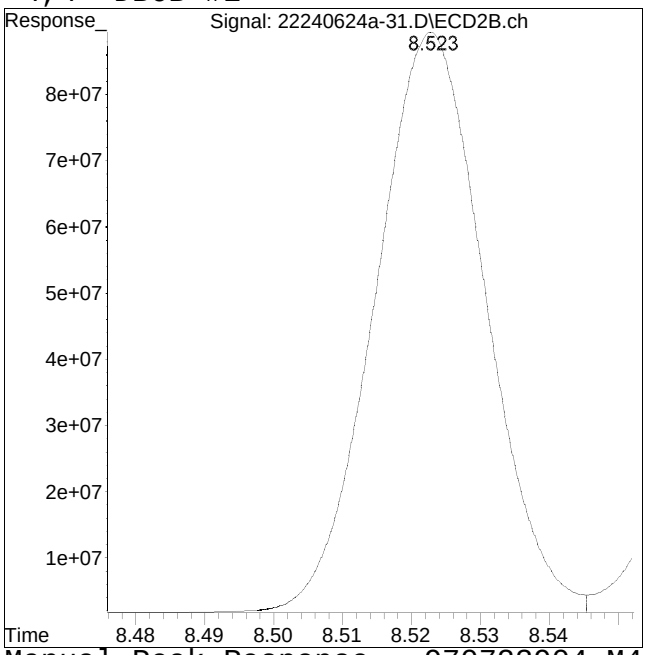
Original Peak Response = 969958749 Manual Peak Response = 902158101 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240624QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240624a-31.D Operator : pest22:jag
Date Inj'd : 6/24/2024 22:20 Instrument : Pest22
Sample : WG1938239-5,42,, msd Quant Date : 6/25/2024 6:47 am

Compound #14: 4,4'-DBOB #2



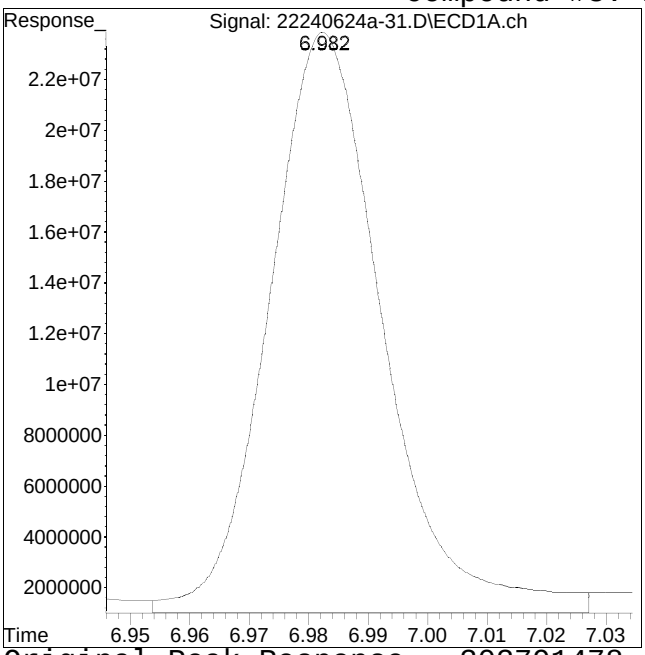


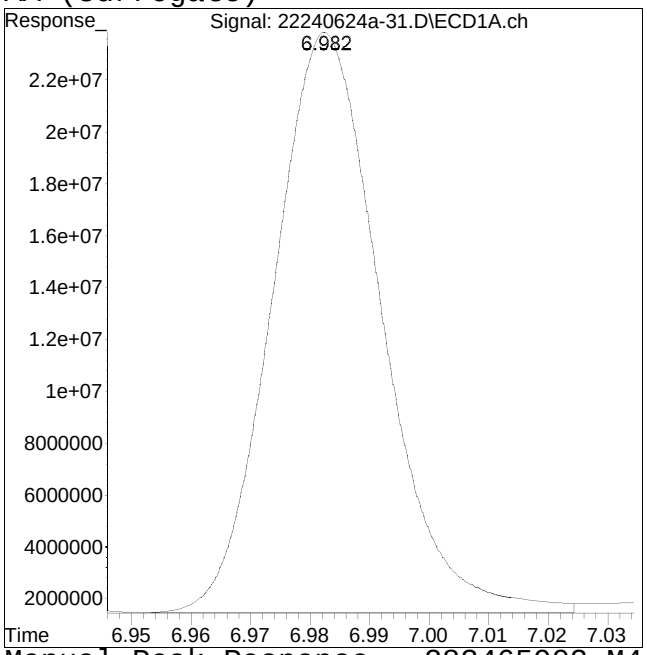
Original Peak Response = 972258106 Manual Peak Response = 970723904 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240624QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240624a-31.D Operator : pest22:jag
Date Inj'd : 6/24/2024 22:20 Instrument : Pest22
Sample : WG1938239-5,42,, msd Quant Date : 6/25/2024 6:47 am

Compound #3: DCAA (surrogate)



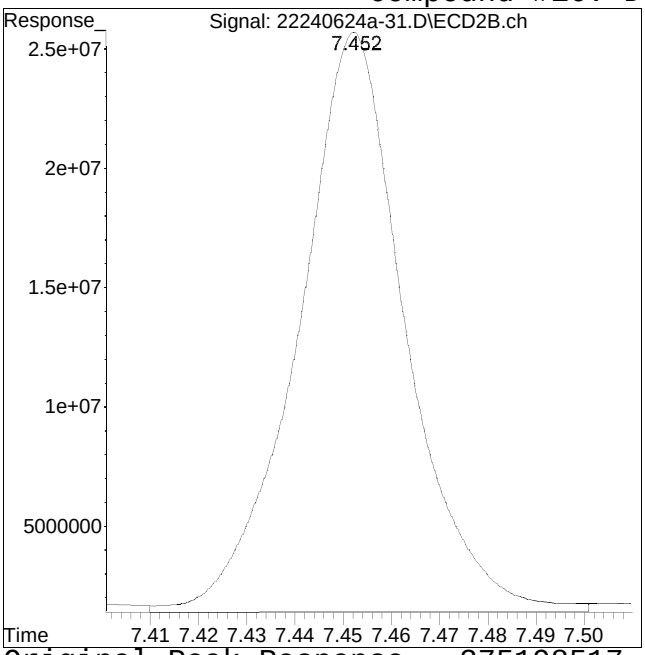


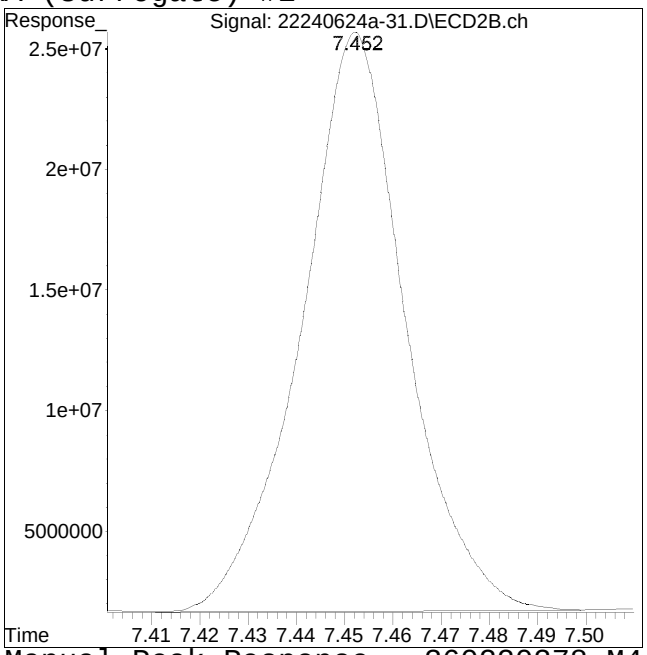
Original Peak Response = 303791478 Manual Peak Response = 283465902 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240624QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240624a-31.D Operator : pest22:jag
Date Inj'd : 6/24/2024 22:20 Instrument : Pest22
Sample : WG1938239-5,42,, msd Quant Date : 6/25/2024 6:47 am

Compound #16: DCAA (surrogate) #2



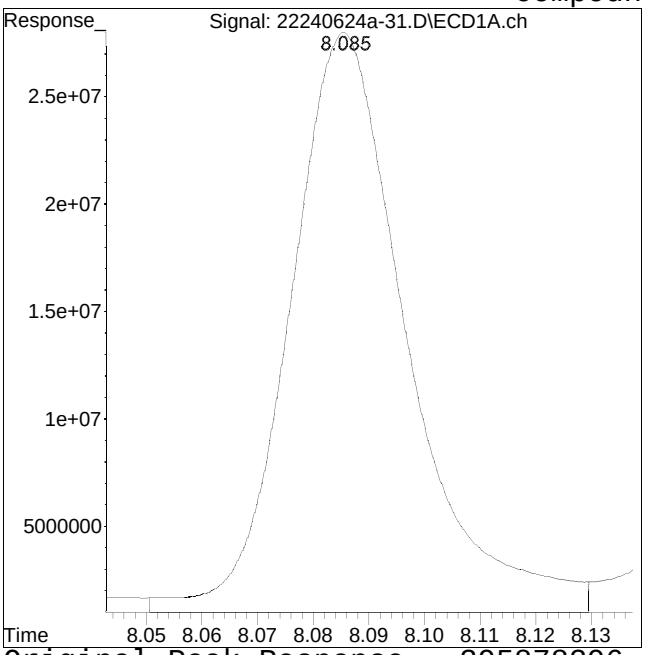


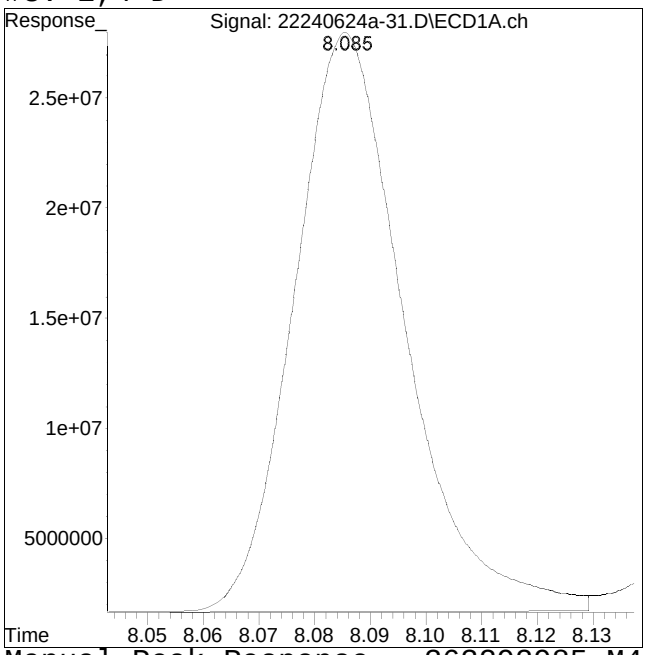
Original Peak Response = 375198517 Manual Peak Response = 360220378 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240624QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240624a-31.D Operator : pest22:jag
Date Inj'd : 6/24/2024 22:20 Instrument : Pest22
Sample : WG1938239-5,42,, msd Quant Date : 6/25/2024 6:47 am

Compound #8: 2,4-D



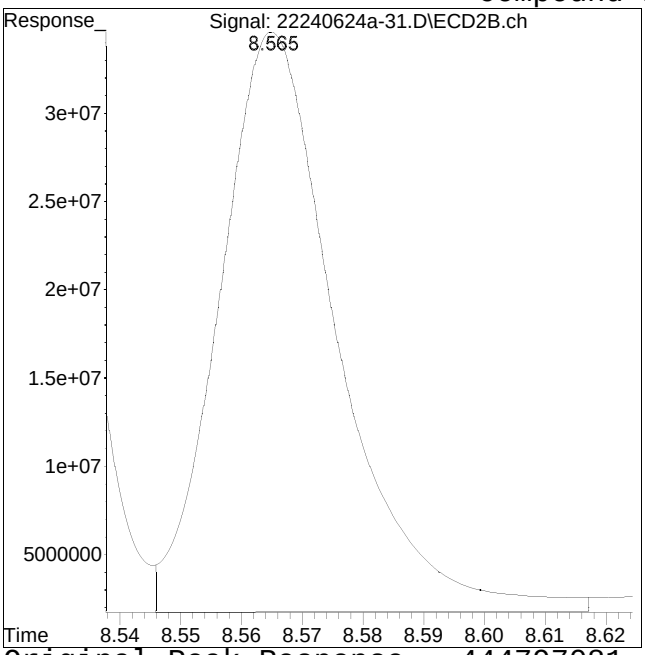


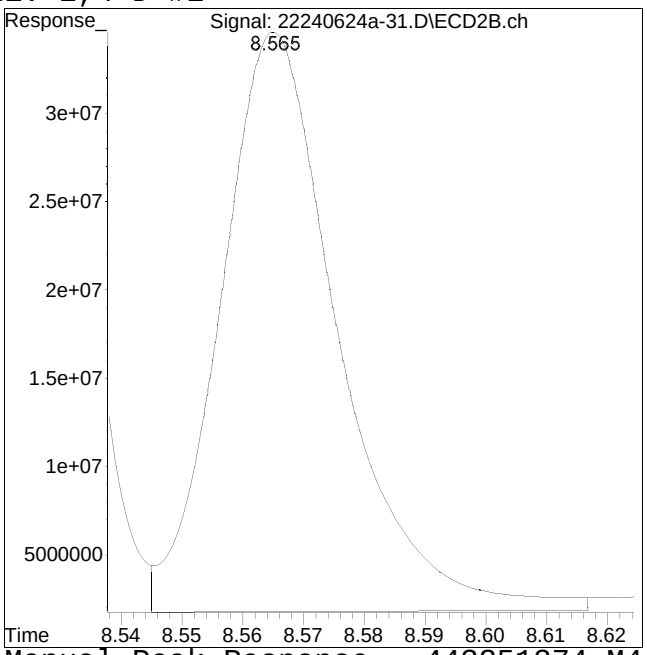
Original Peak Response = 395878396 Manual Peak Response = 363292985 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240624QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240624a-31.D Operator : pest22:jag
Date Inj'd : 6/24/2024 22:20 Instrument : Pest22
Sample : WG1938239-5,42,, msd Quant Date : 6/25/2024 6:47 am

Compound #21: 2,4-D #2



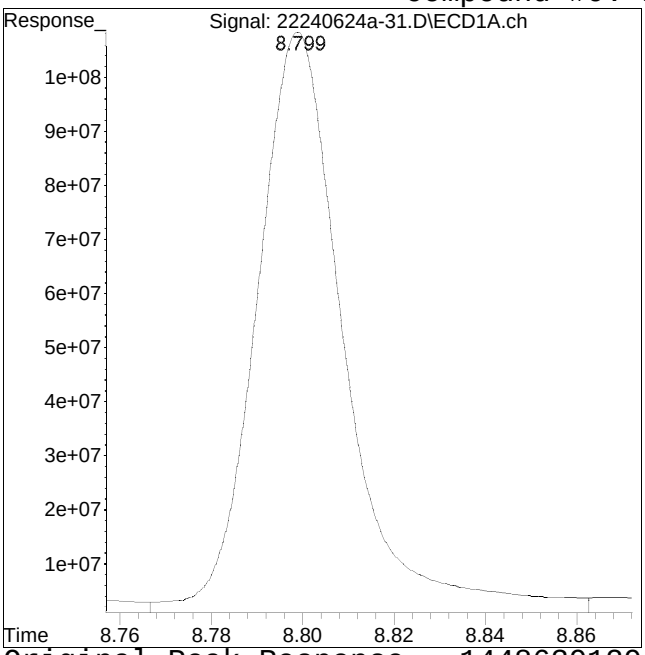


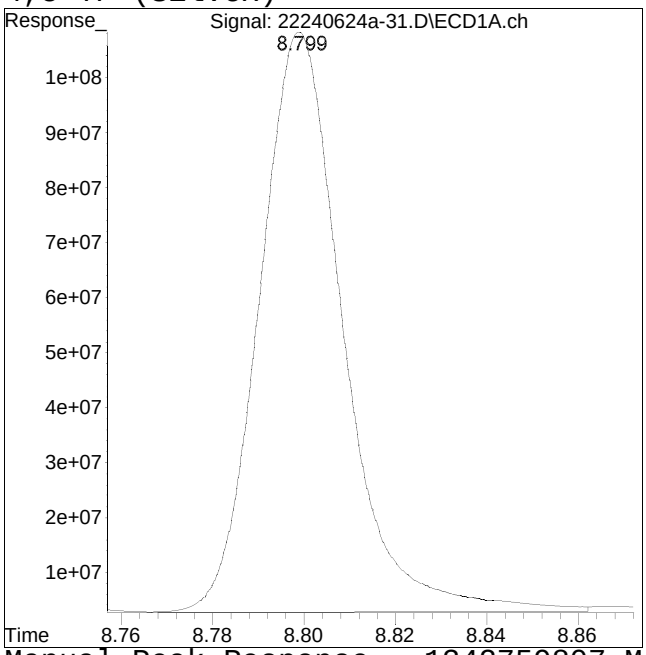
Original Peak Response = 444797081 Manual Peak Response = 443351374 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240624QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240624a-31.D Operator : pest22:jag
Date Inj'd : 6/24/2024 22:20 Instrument : Pest22
Sample : WG1938239-5,42,, msd Quant Date : 6/25/2024 6:47 am

Compound #9: 2,4,5-TP (Silvex)



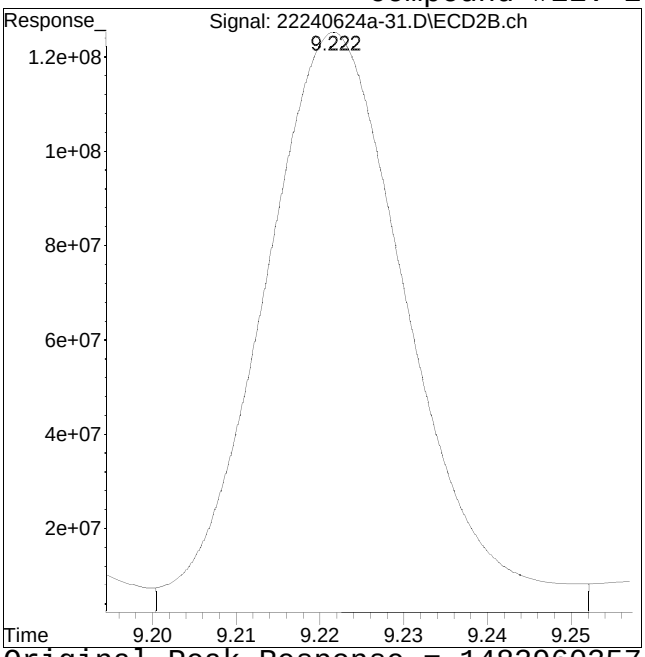


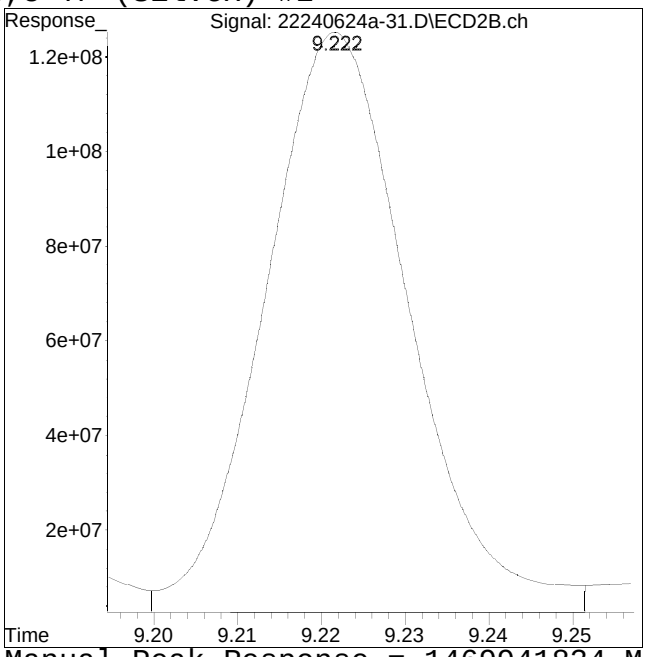
Original Peak Response = 1448639129 Manual Peak Response = 1342759807 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240624QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240624a-31.D Operator : pest22:jag
Date Inj'd : 6/24/2024 22:20 Instrument : Pest22
Sample : WG1938239-5,42,, msd Quant Date : 6/25/2024 6:47 am

Compound #22: 2,4,5-TP (Silvex) #2



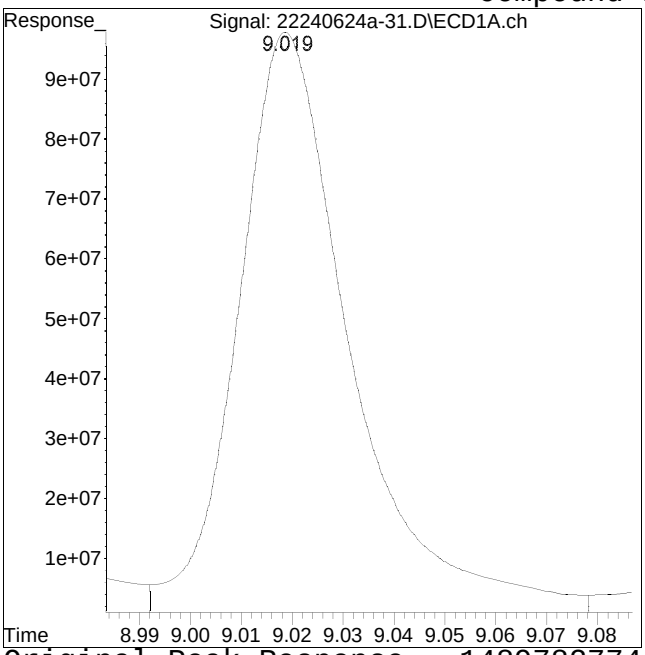


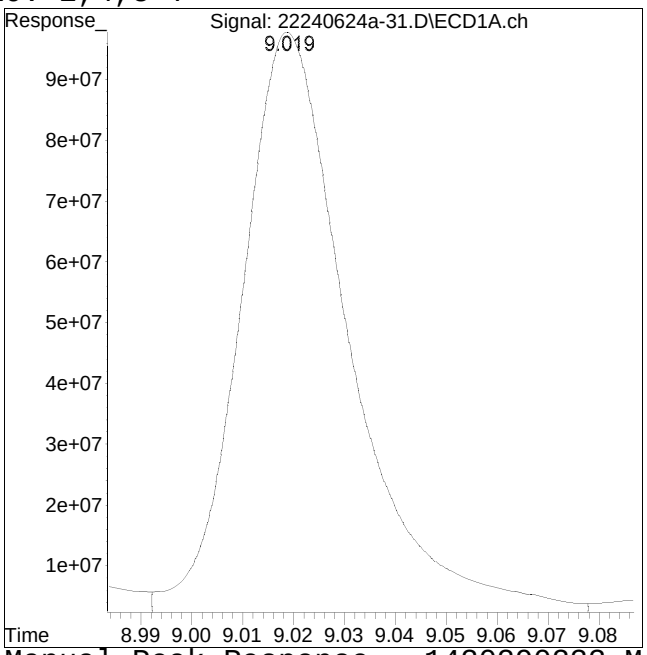
Original Peak Response = 1483960357 Manual Peak Response = 1469941834 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240624QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240624a-31.D Operator : pest22:jag
Date Inj'd : 6/24/2024 22:20 Instrument : Pest22
Sample : WG1938239-5,42,, msd Quant Date : 6/25/2024 6:47 am

Compound #10: 2,4,5-T



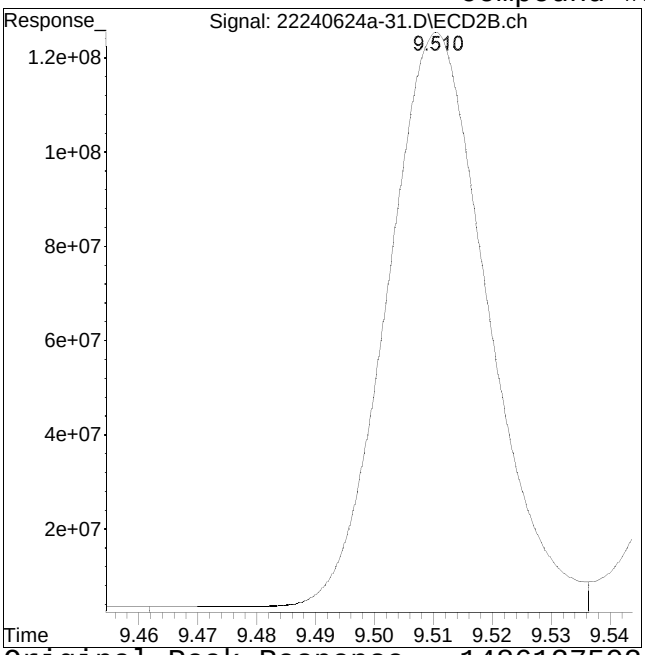


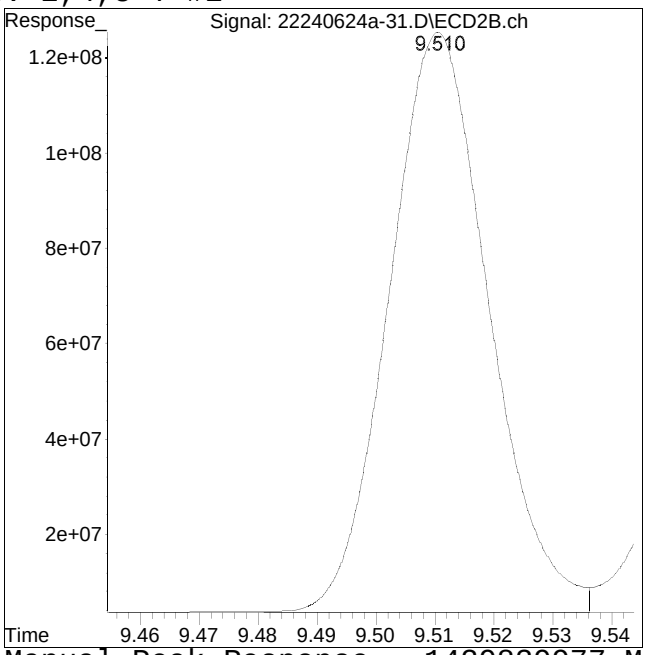
Original Peak Response = 1489782774 Manual Peak Response = 1420290233 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240624QMethod : Herb22_2024_04_12_mgL_IC
Data File : 22240624a-31.D Operator : pest22:jag
Date Inj'd : 6/24/2024 22:20 Instrument : Pest22
Sample : WG1938239-5,42,, msd Quant Date : 6/25/2024 6:47 am

Compound #23: 2,4,5-T #2





Original Peak Response = 1486127502 Manual Peak Response = 1429839977 M4
M4 = Poor automated baseline construction.

Calculation of Herbicides

Aqueous Concentration Formula:
ug/L = [(As)*(Cis)*(D)*Vf]/[(Ais)*(RF)*(Vs)*1000]

Where:
As – Peak area of analyte
Ais – Peak area of internal standard
Cis – Concentration of internal standard (ug/L)
D – Dilution factor (D=1 for no dilution)
Vf – Final extract volume (mL)
Vs – Initial volume extracted (mL)
RF – Mean response factor

Soil/Solid Concentration Formula:
ug/kg = [(As)*(Cis)*(D)*Vf]/[(Ais)*(RF)*(Ws)*1000]

Where:
As – Peak area of analyte
Ais – Peak area of internal standard
Cis – Concentration of internal standard (ug/L)
D – Dilution factor (D=1 for no dilution)
Vf – Final extract volume (mL)
Ws – Initial weight extracted (g)
RF – Mean response factor

Dep.: Pest
Inst: Pest_22
Date: **04/12/24**
Run: **ical**

Method: 8151
GC: HERB

Seq: wg1907956
IS: pp11408

Vial	Data File	Sample	CCAL	notes	initials
1	22240412i-01	blank,42e,,pp11408			
2	22240412i-02	il1herb,42e,,pp11464 L0.005/5			PEG/EJL 4/12
3	22240412i-03	il2herb,42e,,pp11463 L0.1/10			PEG/EJL 4/12
4	22240412i-04	il3herb,42e,,pp11462 L0.2/20			PEG/EJL 4/12
5	22240412i-05	il4herb,42e,,pp11461 L0.5/50			PEG/EJL 4/12
6	22240412i-06	il5herb,42e,,pp11460 L1/100			PEG/EJL 4/12
7	22240412i-07	il6herb,42e,,pp11459 L2/200			PEG/EJL 4/12
8	22240412i-08	cicv,42e,,pp11458 L0.2/20ICV			PEG/EJL 4/12

Dep.: PEST
Inst: Pest_16
Date: **05/21/24**
Run: ical

Method: 8082
GC: Herb

Seq: WG1925170
IS: pp11473

Vial	Data File	Sample	CCAL	notes	screen	initials
1	16240521i-01	blank,42e,,pp 11473	---			
2	16240521i-02	il1herb,42e,,pp 11464	L0.005/5			JAG 5/22
3	16240521i-03	il2herb,42e,,pp 11463	L0.1/10			JAG 5/22
4	16240521i-04	il3herb,42e,,pp 11462	L0.2/20			JAG 5/22
5	16240521i-05	il4herb,42e,,pp 11461	L0.5/50			JAG 5/22
6	16240521i-06	il5herb,42e,,pp 11460	L1/100			JAG 5/22
7	16240521i-07	il6herb,42e,,pp 11459	L2/200			JAG 5/22
8	16240521i-08	cicv,42e,,pp 11458	L0.2/20 ICV			JAG 5/22

Dep.: PEST
Inst: Pest_22
Date: **06/24/24**
Run: a

Method: 8151
GC: Herb

Seq: wg1938492
IS: pp11555

Vial	Data File	Sample	CCAL	notes	screen	initials
1	22240624a-01	herb11561	a/b: dino high, a: mcpp, mcpa high, b: mcpp low, 5:50			EJL 6/24
2	22240624a-02	WG1938264-1	,42,, t	t 22-jun-24 08:06		MMG 6/24
3	22240624a-03	WG1938264-2	,42,, t	t 22-jun-24 08:06		MMG 6/24
4	22240624a-04	WG1938264-3	,42,, t	t 22-jun-24 08:06		MMG 6/24
5	22240624a-05	L2433978-01	,42,, t	surros low, re-ex worse report		PEG 6/25
6	22240624a-06	L2434051-01	,42,, t	t 22-jun-24 08:06		MMG 6/24
7	22240624a-07	WG1938263-1	,42,, t	t 22-jun-24 08:06		MMG 6/24
8	22240624a-08	WG1938263-2	,42,, t	t 22-jun-24 08:06		MMG 6/24
9	22240624a-09	WG1938263-3	,42,, t	t 22-jun-24 08:06		MMG 6/24
10	22240624a-10	L2434043-02	,42,, t	t 22-jun-24 08:06		MMG 6/24
11	22240624a-11	WG1938265-1	,42,, 266 t	t 22-jun-24 17:06		MMG 6/24
12	22240624a-12	WG1938265-2	,42,, 266 t	t 22-jun-24 17:06		MMG 6/24
13	22240624a-13	WG1938265-3	,42,, 266 t	t 22-jun-24 17:06		MMG 6/24
14	22240624a-14	L2433994-01	,42,, t	t 22-jun-24 17:06		MMG 6/24
15	22240624a-15	L2434094-01	,42,, t	t 22-jun-24 17:06		MMG 6/24
16	22240624a-16	L2434094-02	,42,, t	t 22-jun-24 17:06		MMG 6/24
17	22240624a-17	L2434562-03	,42,,,R3E t	t 22-jun-24 17:06	PEG	PEG 6/25
18	22240624a-18	L2434339-01	,42,, t	t 22-jun-24 08:06		PEG 6/25
19	22240624a-19	L2434339-02	,42,, t	t 22-jun-24 08:06		PEG 6/25
20	22240624a-20	herb11561	A: MCPP, MCPA, 245T, Dino high, 16:07			PEG 6/25
21	22240624a-21	WG1938174-1	,42,, splp	t 21-JUN-24 17:10		JAG 6/25
22	22240624a-22	WG1938174-2	,42,, splp	t 21-JUN-24 17:10		JAG 6/25
23	22240624a-23	WG1938174-3	,42,, splp	t 21-JUN-24 17:10		JAG 6/25
24	22240624a-24	L2433480-01	,42,, splp	t 21-JUN-24 17:10		JAG 6/25
25	22240624a-25	L2434450-01	,42,,			PEG 6/25
26	22240624a-26	L2434450-02	,42,,			PEG 6/25
27	22240624a-27	L2434709-01	,42,,			PEG 6/25
28	22240624a-28	L2435060-08	,42,,			JAG 6/25
29	22240624a-29	L2434679-03	,42,,			JAG 6/25
30	22240624a-30	WG1938239-4	,42,, ms			JAG 6/25
31	22240624a-31	WG1938239-5	,42,, msd			JAG 6/25
32	22240624a-32	L2434613-04	,42,,			JAG 6/25
33	22240624a-33	L2434640-30	,42,,			JAG 6/25
34	22240624a-34	L2434679-01	,42,,			JAG 6/25
35	22240624a-35	L2434679-02	,42,,			JAG 6/25
36	22240624a-36	herb11561	A: MCPP, MCPA, Dino high, 23:51			PEG 6/25
37	22240624a-37	L2434679-04	,42,,			JAG 6/25
38	22240624a-38	L2434679-05	,42,,			JAG 6/25
39	22240624a-39	L2434679-06	,42,,			JAG 6/25
40	22240624a-40	L2434679-07	,42,,			JAG 6/25
41	22240624a-41	L2434679-08	,42,,			JAG 6/25
42	22240624a-42	L2434679-09	,42,,			JAG 6/25
43	22240624a-43	L2434679-10	,42,,			JAG 6/25
44	22240624a-44	L2434679-11	,42,,			JAG 6/25

Dep.: PEST
Inst: Pest_22
Date: **06/24/24**
Run: a

Method: 8151
GC: Herb

Seq: wg1938492
IS: pp11555

Vial	Data File	Sample	CCAL	notes	screen	initials
45	22240624a-45	L2434679-12	42,,			JAG 6/25
46	22240624a-46	L2434679-14	42,,			JAG 6/25
47	22240624a-47	herb11561		A: MCPP, MCPA, 245T, Dino high, 3:11 (6/25)		PEG 6/25
48	22240624a-48	L2435023-17	42,,			JAG 6/25
49	22240624a-49	L2435399-25	42,,			JAG 6/25
50	22240624a-50	WG1938046-1	42,,	8042 8026 8029 mcp		PEG 6/25
51	22240624a-51	WG1938046-2	42,,	8042 8026 8029 mcp		PEG 6/25
52	22240624a-52	WG1938046-3	42,,	8042 8026 8029 mcp		PEG 6/25
53	22240624a-53	L2434387-01	42,,	mcp		PEG 6/25
54	22240624a-54	WG1938230-1	42,,	8169 rrconf		PEG 6/25
55	22240624a-55	L2434387-04	42,,	mcp		PEG 6/25
56	22240624a-56	WG1938230-2	42,,	rr 8169		PEG 6/25
57	22240624a-57	WG1938230-3	42,,	rr 8169		PEG 6/25
58	22240624a-58	L2434709-02	42,,	rr		PEG 6/25
59	22240624a-59	L2434709-03	42,,	rr		PEG 6/25
60	22240624a-60	L2434709-04	42,,	rr		PEG 6/25
61	22240624a-61	L2434709-05	42,,	rr		PEG 6/25
62	22240624a-62	L2434709-06	42,,	rr		PEG 6/25
63	22240624a-63	L2434387-05	42,,	mcp		PEG 6/25
64	22240624a-64	herb11561		A: MCPP, MCPA, 245T, Dino high, b: MCPP low, 11:18 (6/25)		PEG 6/25
65	22240624a-65	L2434387-08	42,,	mcp		PEG 6/25
66	22240624a-66	L2434387-09	42,,	mcp		PEG 6/25
67	22240624a-67	L2434387-11	42,,	mcp		PEG 6/25
68	22240624a-68	L2434387-14	42,,	mcp		PEG 6/25
69	22240624a-69	L2434335-14	42,,			PEG 6/25
70	22240624a-70	L2434335-15	42,,			PEG 6/25
71	22240624a-71	L2434335-16	42,,			JAG 6/25
72	22240624a-72	L2434335-19	42,,			JAG 6/25
73	22240624a-73	L2434335-20	42,,			JAG 6/25
74	22240624a-74	L2434335-23	42,,			JAG 6/25
75	22240624a-75	herb11561		a/b 2,4-d high a: mcpp, mcpa, 245t high, b: dino high mcpp low 14:39		JAG 6/25
76	22240624a-76	L2434335-24	42,,			JAG 6/25
77	22240624a-77	L2434443-07	42,,			JAG 6/25
78	22240624a-78	L2434443-14	42,,			JAG 6/25
79	22240624a-79	L2434443-21	42,,			JAG 6/25
80	22240624a-80	L2434443-28	42,,			JAG 6/25
81	22240624a-81	L2434443-35	42,,			JAG 6/25
82	22240624a-82	L2435056-01	42,,	NOTS		JAG 6/25
83	22240624a-83	WG1938703-1	42,,			JAG 6/25
84	22240624a-84	WG1938703-2	42,,			JAG 6/25
85	22240624a-85	WG1938703-3	42,,			JAG 6/25
86	22240624a-86	L2434339-01	42,,			JAG 6/25
87	22240624a-87	L2434640-01	42,,	p		JAG 6/25
88	22240624a-88	WG1938703-4	42,,	ms		AKM 6/26

Dep.: PEST
Inst: Pest_22
Date: **06/24/24**
Run: a

Method: 8151
GC: Herb

Seq: wg1938492
IS: pp11555

Vial	Data File	Sample	CCAL	notes	screen	initials
89	22240624a-89	WG1938703-5	,42,, msd			AKM 6/26
90	22240624a-90	herb11561	a: mcpp, mcpa, dino high, b mcpp low 19:14			AKM 6/26
91	22240624a-91	L2434562-03,	42,,,R3E			AKM 6/26
92	22240624a-92	L2434640-02,	42,,			AKM 6/26
93	22240624a-93	L2434640-05,	42,,			AKM 6/26
94	22240624a-94	L2434640-06,	42,,			AKM 6/26
95	22240624a-95	L2434640-09,	42,,			AKM 6/26
96	22240624a-96	L2434640-10,	42,,			AKM 6/26
97	22240624a-97	L2434640-13,	42,,			AKM 6/26
98	22240624a-98	L2434640-14,	42,,			AKM 6/26
99	22240624a-99	L2434640-17,	42,,			AKM 6/26
100	22240624a-100	L2434640-18,	42,,			AKM 6/26
101	22240624a-101	herb11561	a: mcpp, mcpa, dino high, b mcpp low 22:35. B: IS high			PEG 6/26
102	22240624a-102	L2434640-21,	42,,			AKM 6/26
103	22240624a-103	L2434640-22,	42,,			AKM 6/26
104	22240624a-104	L2434640-25,	42,,			AKM 6/26
105	22240624a-105	L2434640-26,	42,,			AKM 6/26
106	22240624a-106	L2434640-29,	42,,			AKM 6/26
107	22240624a-107	L2435268-03,	42,,R3C			AKM 6/26
108	22240624a-108	L2435268-04,	42,,R3C			AKM 6/26
109	22240624a-109	WG1939059-1	,42,, t	t 23-jun-24 23:19		AKM 6/26
110	22240624a-110	WG1939059-2	,42,, t	t 23-jun-24 23:19		AKM 6/26
111	22240624a-111	WG1939059-3	,42,, t	t 23-jun-24 23:19		AKM 6/26
112	22240624a-112	L2434716-01,	42,, t	t 23-jun-24 23:19		AKM 6/26
113	22240624a-113	herb11561	a: mcpp, mcpp, 24			AKM 6/26
114	22240624a-114	L2435448-04,	42,,R3C t	t 23-jun-24 23:19		AKM 6/26
115	22240624a-115	L2434672-03,	42,, t	t 23-jun-24 23:19		AKM 6/26

Dep.: PEST
Inst: Pest_16
Date: **06/24/24**
Run: a

Method: 8151
GC: HERB

Seq: wg1938572
IS: pp11555

Vial	Data File	Sample	CCAL	notes	screen	initials
1	16240624a-01	blank				
2	16240624a-02	herb11561	a: 15%, b: dichloro, 24d, silvex, 245t high, 5:47			EJL 6/24
3	16240624a-03	blank				
4	16240624a-04	WG1938239-1,42,,			MMG	AKM 6/25
5	16240624a-05	WG1938239-2,42,,				AKM 6/25
6	16240624a-06	WG1938239-3,42,,				AKM 6/25
7	16240624a-07	L2434562-01,42,,,R3E		apa ok		
8	16240624a-08	L2435162-01,42,,,R3C		apa ok		
9	16240624a-09	L2435220-01,42,,,R3E		apa ok		
10	16240624a-10	WG1938230-1,42,, 169		rr dichloro		
11	16240624a-11	WG1938230-2,42,, 169		rr dichloro		
12	16240624a-12	WG1938230-3,42,, 169		rr dichloro		
13	16240624a-13	L2434709-02,42,,		rr dichloro	akm	
14	16240624a-14	L2434709-03,42,,		rr dichloro		
15	16240624a-15	L2434709-04,42,,		rr dichloro		
16	16240624a-16	L2434709-05,42,,		rr dichloro		
17	16240624a-17	L2434709-06,42,,		rr dichloro		

ALPHA ANALYTICAL LABORATORIES, INC.

Alpha WORK GROUP REPORT (wk02)

Jun 26 2024, 11:37 am

Work Group: WG1938239 for Department: 2 Organic Preparation

Created: 23-JUN-24 Due: Operator: YDA

Sample	Client ID	C	Product	Matrix	Stat	UA	HOLD	DUE	PR	Location
L2434562-01	EB-061924	S	HERB-APA	WATER	DONE	U	0626	0626	3E	Amber-A1
L2434613-04	AA2400501	S	HERB-APA	WATER	DONE	U	0626	0701	S0	Amber-A1
L2434640-30	FB_06192024	S	HERB-APA	WATER	DONE	U	0626	0626	S0	Amber-A1
L2434679-01	MW-3A	S	HERB-APA	WATER	DONE	U	0626	0626	S0	Amber-A1
L2434679-02	MW-6A	S	HERB-APA	WATER	DONE	U	0625	0626	S0	Amber-A1
L2434679-03	MW-6B	S	HERB-APA	WATER	DONE	U	0625	0626	S0	Amber-A1
L2434679-04	MW-6C	S	HERB-APA	WATER	DONE	U	0625	0626	S0	Amber-A1
L2434679-05	MW-7A	S	HERB-APA	WATER	DONE	U	0625	0626	S0	Amber-A1
L2434679-06	MW-7B	S	HERB-APA	WATER	DONE	U	0625	0626	S0	Amber-A1
L2434679-07	MW-7C	S	HERB-APA	WATER	DONE	U	0625	0626	S0	Amber-A1
L2434679-08	MW-8A	S	HERB-APA	WATER	DONE	U	0625	0626	S0	Amber-A1
L2434679-09	MW-8B	S	HERB-APA	WATER	DONE	U	0625	0626	S0	Amber-A1
L2434679-10	MW-9B	S	HERB-APA	WATER	DONE	U	0626	0626	S0	Amber-A1
L2434679-11	DUP	S	HERB-APA	WATER	DONE	U	0625	0626	S0	Amber-A1
L2434679-12	EB	S	HERB-APA	WATER	DONE	U	0625	0626	S0	Amber-A1
L2434679-14	MW-8B2	S	HERB-APA	WATER	DONE	U	0625	0626	S0	Amber-A1
L2435023-17	FB_06202024	S	HERB-APA	WATER	DONE	U	0627	0627	S0	Glass-A.25
L2435162-01	FRAC TANK WATER	S	HERB-APA	WATER	DONE	U	0627	0626	3C	Amber-A1
L2435220-01	EB-06212024	S	HERB-APA	WATER	DONE	U	0628	0628	3E	Amber-A1
L2435399-25	FB_06212024	S	HERB-APA	WATER	DONE	U	0628	0628	S0	Glass-A.25
WG1938239-1	Laboratory Method Bl	S	HERB-APA	WATER	DONE	U				
WG1938239-2	Laboratory Control S	S	HERB-APA	WATER	DONE	U				
WG1938239-3	LCS Duplicate	S	HERB-APA	WATER	DONE	U				
WG1938239-4	Matrix Spike	S	HERB-APA	WATER	DONE	U				
WG1938239-5	Matrix Spike Duplica	S	HERB-APA	WATER	DONE	U				

Comments:

WG1938239-3	WG1938239-2
WG1938239-4	L2434679-03
WG1938239-5	L2434679-03

ORGANIC ELN REPORT

Workgroup: WG1938239

Prep Method: EPA 8151A
Solvent Type: Diethyl ether **Lot #:** 24030023
Surrogate Type: Herbicide **Lot #:** PP11596ap,11/30/2024,
Spike Type: Herbicides **Lot #:** PP11568an,11/06/2024,
Spike Verify by: YDA
Lims Spikelot: HERB8151

Additional Reagents/Stds

12N H2SO4	12A062124
25% NaOH	Na060824
Acidified Na2SO4	AS062324
DCM	EI560
Diethyl ether	24030023
Na2S2O3	N/A
NaCl	24C2956246

Conc.Method: S-EVAP/N-EVAP
Solvent Type: Diethyl ether
Lot #: 23090460

Additional Reagents/Stds

Acidified Na2SO4	AS062324
Diazomethane	D062424
Hexane	EI504
Isooctane	STBK8849
Methanol	63054
Silicic Acid	MKCL9565

Cleanup 1

Cleanup Method 1:
Cleanup Method 2:
Solvent Type: **Lot #:**

Additional Reagents/Stds

Extraction | **Concentration**

Sample/ Type	Extract Date	Analyst	Sample Vol ml	Ph	Trc Check	Surr Amt ml	Spike Amt ml	Hydrolysis Start	Hydrolysis Stop	Conc Date	Analyst	Conc Volume ml	Methylation Date	ml ml	Conc Unit
L2434562-01 WATER	06/23/24 17:34	Yaw Adu	1000	>12, <2	N/A	.5		06/23/24 19:09	06/23/24 20:39	06/24/24 10:38	Sam Boateng	0.5	06/24/24 11:02	10	S-EVAP-G#N-EVAP #7
L2434613-04 WATER	06/23/24 17:34	Yaw Adu	1000	>12, <2	N/A	.5		06/23/24 19:09	06/23/24 20:39	06/24/24 14:05	Sophia Osei	0.5	06/24/24 16:03	10	S-EVAP-G#N-EVAP #7
L2434640-30 SAMP	06/23/24 17:34	Yaw Adu	1000	>12, <2	N/A	.5		06/23/24 19:09	06/23/24 20:39	06/24/24 14:05	Sophia Osei	0.5	06/24/24 16:03	10	S-EVAP-G#N-EVAP #7
L2434679-01 WATER	06/23/24 17:34	Yaw Adu	1000	>12, <2	N/A	.5		06/23/24 19:09	06/23/24 20:39	06/24/24 14:05	Sophia Osei	0.5	06/24/24 16:03	10	S-EVAP-G#N-EVAP #7
L2434679-02 WATER	06/23/24 17:34	Yaw Adu	1000	>12, <2	N/A	.5		06/23/24 19:09	06/23/24 20:39	06/24/24 14:05	Sophia Osei	0.5	06/24/24 16:03	10	S-EVAP-G#N-EVAP #7

Reported: 26-JUN-24 11:37 AM

ORGANIC ELN REPORT

Workgroup: WG1938239

Sample/ Type	Extraction									Concentration					
	Extract Date	Analyst	Sample Vol ml	Ph	Trc Check	Surr Amt ml	Spike Amt ml	Hydrolysis Start	Hydrolysis Stop	Conc Date	Analyst	Conc Volume ml	Methylation Date	ml ml	Conc Unit
L2434679-03 WATER	06/23/24 17:34	Yaw Adu	1000	>12, <2	N/A	.5		06/23/24 19:09	06/23/24 20:39	06/24/24 14:05	Sophia Osei	0.5	06/24/24 16:03	10	S-EVAP-G#N-EVAP #7
L2434679-04 WATER	06/23/24 17:34	Yaw Adu	1000	>12, <2	N/A	.5		06/23/24 19:09	06/23/24 20:39	06/24/24 14:05	Sophia Osei	0.5	06/24/24 16:03	10	S-EVAP-G#N-EVAP #7
L2434679-05 WATER	06/23/24 17:34	Yaw Adu	1000	>12, <2	N/A	.5		06/23/24 19:09	06/23/24 20:39	06/24/24 14:05	Sophia Osei	0.5	06/24/24 16:03	10	S-EVAP-G#N-EVAP #7
L2434679-06 WATER	06/23/24 17:34	Yaw Adu	1000	>12, <2	N/A	.5		06/23/24 19:09	06/23/24 20:39	06/24/24 14:05	Sophia Osei	0.5	06/24/24 16:03	10	S-EVAP-G#N-EVAP #7
L2434679-07 WATER	06/23/24 17:34	Yaw Adu	1000	>12, <2	N/A	.5		06/23/24 19:09	06/23/24 20:39	06/24/24 14:05	Sophia Osei	0.5	06/24/24 16:03	10	S-EVAP-G#N-EVAP #7
L2434679-08 WATER	06/23/24 17:45	Yaw Adu	1000	>12, <2	N/A	.5		06/23/24 19:09	06/23/24 20:39	06/24/24 14:05	Sophia Osei	0.5	06/24/24 16:03	10	S-EVAP-G#N-EVAP #7
L2434679-09 WATER	06/23/24 17:45	Yaw Adu	1000	>12, <2	N/A	.5		06/23/24 19:09	06/23/24 20:39	06/24/24 14:05	Sophia Osei	0.5	06/24/24 16:03	10	S-EVAP-G#N-EVAP #7
L2434679-10 WATER	06/23/24 17:45	Yaw Adu	1000	>12, <2	N/A	.5		06/23/24 19:09	06/23/24 20:39	06/24/24 14:05	Sophia Osei	0.5	06/24/24 16:03	10	S-EVAP-G#N-EVAP #7
L2434679-11 WATER	06/23/24 17:45	Yaw Adu	1000	>12, <2	N/A	.5		06/23/24 19:09	06/23/24 20:39	06/24/24 14:05	Sophia Osei	0.5	06/24/24 16:03	10	S-EVAP-G#N-EVAP #7

Reported: 26-JUN-24 11:37 AM

ORGANIC ELN REPORT

Workgroup: WG1938239

Sample/ Type	Extraction									Concentration					
	Extract Date	Analyst	Sample Vol ml	Ph	Trc Check	Surr Amt ml	Spike Amt ml	Hydrolysis Start	Hydrolysis Stop	Conc Date	Analyst	Conc Volume ml	Methylation Date	ml ml	Conc Unit
L2434679-12 WATER	06/23/24 17:45	Yaw Adu	1000	>12, <2	N/A	.5		06/23/24 19:09	06/23/24 20:39	06/24/24 14:05	Sophia Osei	0.5	06/24/24 16:03	10	S-EVAP-G#N-EVAP #7
L2434679-14 WATER	06/23/24 17:45	Yaw Adu	1000	>12, <2	N/A	.5		06/23/24 19:09	06/23/24 20:39	06/24/24 14:05	Sophia Osei	0.5	06/24/24 16:03	10	S-EVAP-G#N-EVAP #7
L2435023-17 SAMP	06/23/24 17:45	Yaw Adu	1000	>12, <2	N/A	.5		06/23/24 19:09	06/23/24 20:39	06/24/24 14:05	Sophia Osei	0.5	06/24/24 16:03	10	S-EVAP-G#N-EVAP #7
L2435162-01 WATER	06/23/24 17:45	Yaw Adu	1000	>12, <2	N/A	.5		06/23/24 19:09	06/23/24 20:39	06/24/24 10:39	Sam Boateng	0.5	06/24/24 11:02	10	S-EVAP-G#N-EVAP #7
L2435220-01 WATER	06/23/24 17:45	Yaw Adu	1000	>12, <2	N/A	.5		06/23/24 19:09	06/23/24 20:39	06/24/24 10:38	Sam Boateng	0.5	06/24/24 11:02	10	S-EVAP-G#N-EVAP #7
L2435399-25 SAMP	06/23/24 17:45	Yaw Adu	1000	>12, <2	N/A	.5		06/23/24 19:09	06/23/24 20:39	06/24/24 14:05	Sophia Osei	0.5	06/24/24 16:03	10	S-EVAP-G#N-EVAP #7
WG1938239-1 BLANK	06/23/24 17:34	Yaw Adu	1000	>12, <2	N/A	.5		06/23/24 19:09	06/23/24 20:39	06/24/24 10:38	Sam Boateng	0.5	06/24/24 11:02	10	S-EVAP-G#N-EVAP #7
WG1938239-2 LCS	06/23/24 17:34	Yaw Adu	1000	>12, <2	N/A	.5	.5	06/23/24 19:09	06/23/24 20:39	06/24/24 10:38	Sam Boateng	0.5	06/24/24 11:02	10	S-EVAP-G#N-EVAP #7
WG1938239-3 LCSD	06/23/24 17:34	Yaw Adu	1000	>12, <2	N/A	.5	.5	06/23/24 19:09	06/23/24 20:39	06/24/24 10:38	Sam Boateng	0.5	06/24/24 11:02	10	S-EVAP-G#N-EVAP #7

Reported: 26-JUN-24 11:37 AM

ORGANIC ELN REPORT

Workgroup: WG1938239

Sample/ Type	Extraction									Concentration					
	Extract Date	Analyst	Sample Vol **ml**	Ph	Trc Check	Surr Amt **ml**	Spike Amt **ml**	Hydrolysis Start	Hydrolysis Stop	Conc Date	Analyst	Conc Volume **ml**	Methylation Date	ml **ml**	Conc Unit
WG1938239-4 MS	06/23/24 17:34	Yaw Adu	1000	>12, <2	N/A	.5	.5	06/23/24 19:09	06/23/24 20:39	06/24/24 14:05	Sophia Osei	0.5	06/24/24 16:03	10	S-EVAP-G#N-EVAP #7
WG1938239-5 MSD	06/23/24 17:34	Yaw Adu	1000	>12, <2	N/A	.5	.5	06/23/24 19:09	06/23/24 20:39	06/24/24 14:05	Sophia Osei	0.5	06/24/24 16:03	10	S-EVAP-G#N-EVAP #7

Reported: 26-JUN-24 11:37 AM

GC Extractable Analysis Polychlorinated Biphenyls (PCB)

Aroclor QC Summary

Surrogate Recovery Summary
Form 2
PCBs

Client: Alpha Geoscience
Project Name: RANCO MINE

Lab Number: L2434679
Project Number: 12123
Matrix: Water

GC Column 1: CLP-Pesticide
GC Column 2: CLP-PesticideII

CLIENT ID (LAB SAMPLE NO.)	TCX 1 %REC	TCX 2 %REC	DCB 1 %REC	DCB 2 %REC	OTHER (1)	OTHER (2)	TOT OUT
MW-3A (L2434679-01)	86	87	93	142			0
MW-6A (L2434679-02)	88	91	93	142			0
MW-6B (L2434679-03)	89	90	98	150			0
MW-6C (L2434679-04)	90	90	96	147			0
MW-7A (L2434679-05)	91	92	97	148			0
MW-7B (L2434679-06)	97	84	107	136			0
MW-7C (L2434679-07)	137	102	149	166*			1
MW-8A (L2434679-08)	89	90	94	145			0
MW-8B (L2434679-09)	87	91	99	150			0
MW-9B (L2434679-10)	94	95	102	153*			1
DUP (L2434679-11)	92	93	100	150			0
EB (L2434679-12)	91	92	49	76			0
MW-8B2 (L2434679-14)	91	94	106	160*			1
WG1939973-1BLANK	75	77	81	125			0
WG1939973-2LCS	79	80	85	133			0
WG1939973-3LCSD	79	83	87	134			0
MW-6BMS	79	83	89	134			0
MW-6BMSD	83	87	94	146			0

QC LIMITS
(30-150) TCX = 2,4,5,6-TETRACHLORO-M-XYLENE
(30-150) DCBP = DECACHLOROBIPHENYL

*** Values outside of QC limits**

FORM II NYTCL-8082-LVI

Laboratory Control Sample Summary
Form 3
PCBs

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Matrix (Level)	: WATER (LOW)		
LCS Sample ID	: WG1939973-2 **Analysis Date** : 06/27/24 10:53	**File ID**	: P2240627a-16
LCSD Sample ID	: WG1939973-3 **Analysis Date** : 06/27/24 11:01	**File ID**	: P2240627a-17

	Laboratory Control Sample			Laboratory Control Duplicate					
Parameter	True (ug/l)	Found (ug/l)	%R	True (ug/l)	Found (ug/l)	%R	RPD	Recovery Limits	RPD Limit
Aroclor 1016	1.78	1.38	77	1.78	1.40	78	1	40-140	50
Aroclor 1260	1.78	1.27	71	1.78	1.33	75	5	40-140	50

Matrix Spike Sample Summary
Form 3
PCBs

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Client Sample ID	: MW-6B	**Matrix (Level)**	: WATER (LOW)
Lab Sample ID	: L2434679-03	**Analysis Date**	: 06/27/24 12:02
Matrix Spike	: WG1939973-4	**MS Analysis Date**	: 06/27/24 12:11
Matrix Spike Dup	: WG1939973-5	**MSD Analysis Date**	: 06/27/24 12:20

		Matrix Spike Sample			Matrix Spike Duplicate					
Parameter	Sample Conc. (ug/l)	Spike Added (ug/l)	Spike Conc. (ug/l)	%R	Spike Added (ug/l)	Spike Conc. (ug/l)	%R	RPD	Recovery Limits	RPD Limit
Aroclor 1016	ND	1.78	1.38	77	1.78	1.46	82	6	40-140	50
Aroclor 1260	ND	1.78	1.31	73	1.78	1.41	79	7	40-140	50

Method Blank Summary
Form 4
PCBs

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Lab Sample ID	: WG1939973-1	**Lab File ID**	: P2240627a-15
Matrix	: WATER	**Extraction Date**	: 06/27/24
Sulfur Cleanup	: Y		
Analysis Date (1)	: 06/27/24 10:44	**Analysis Date (2)**	: 06/27/24 10:44
Instrument ID (1)	: PEST2	**Instrument ID (2)**	: PEST2

Client Sample No.	Lab Sample ID	Analysis Date 1	Analysis Date 2
WG1939973-2LCS	WG1939973-2	06/27/24 10:53	06/27/24 10:53
WG1939973-3LCSD	WG1939973-3	06/27/24 11:01	06/27/24 11:01
MW-7B	L2434679-06	06/27/24 11:10	06/27/24 11:10
MW-8A	L2434679-08	06/27/24 11:28	06/27/24 11:28
MW-9B	L2434679-10	06/27/24 11:36	06/27/24 11:36
MW-3A	L2434679-01	06/27/24 11:45	06/27/24 11:45
MW-6A	L2434679-02	06/27/24 11:54	06/27/24 11:54
MW-6B	L2434679-03	06/27/24 12:02	06/27/24 12:02
MW-6BMS	WG1939973-4	06/27/24 12:11	06/27/24 12:11
MW-6BMSD	WG1939973-5	06/27/24 12:20	06/27/24 12:20
MW-6C	L2434679-04	06/27/24 12:29	06/27/24 12:29
MW-7A	L2434679-05	06/27/24 12:38	06/27/24 12:38
MW-8B	L2434679-09	06/27/24 12:46	06/27/24 12:46
DUP	L2434679-11	06/27/24 12:55	06/27/24 12:55
EB	L2434679-12	06/27/24 13:03	06/27/24 13:03
MW-8B2	L2434679-14	06/27/24 13:12	06/27/24 13:12
MW-7C	L2434679-07	06/27/24 14:31	06/27/24 14:31

Analytical Sequence
Form 8b
PCBs

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Instrument ID	: PEST2	**Initial Calib. Date(s)**	: 05/06/24 05/07/24

Client ID	Lab ID	Date/Time Analyzed
1242/1268 L4 (250ug/L)	R1826224-1	05/06/24 20:49
1232/1262 L4 (250ug/L)	R1826224-2	05/06/24 20:59
1248 L4 (250ug/L)	R1826224-3	05/06/24 21:08
1221/1254 L4 (250ug/L)	R1826224-4	05/06/24 21:18
1016/1260 L2 (50ug/L)	R1826224-5	05/06/24 21:36
1016/1260 L3 (100ug/L)	R1826224-6	05/06/24 21:46
1016/1260 L4 (250ug/L)	R1826224-7	05/06/24 21:55
1016/1260 L5 (500ug/L)	R1826224-8	05/06/24 22:04
1016/1260 L6 (1000ug/L)	R1826224-9	05/06/24 22:14
R1826224-10 ICV	R1826224-10	05/06/24 22:23
R1826224-11 ICV	R1826224-11	05/06/24 22:33
R1826224-12 ICV	R1826224-12	05/06/24 22:42
R1826224-13 ICV	R1826224-13	05/06/24 22:52
1016/1260 L1 (10ug/L)	R1826224-14	05/07/24 15:31
R1826224-15 ICV	R1826224-15	05/07/24 15:41
WG1940092-1 CCAL	WG1940092-1	06/27/24 05:39
WG1939973-1 BLANK	WG1939973-1	06/27/24 10:44
WG1939973-2 LCS	WG1939973-2	06/27/24 10:53
WG1939973-3 LCSD	WG1939973-3	06/27/24 11:01
MW-7B	L2434679-06	06/27/24 11:10
MW-8A	L2434679-08	06/27/24 11:28
MW-9B	L2434679-10	06/27/24 11:36
MW-3A	L2434679-01	06/27/24 11:45
MW-6A	L2434679-02	06/27/24 11:54
MW-6B	L2434679-03	06/27/24 12:02
MW-6B MS	WG1939973-4	06/27/24 12:11
MW-6B MSD	WG1939973-5	06/27/24 12:20
MW-6C	L2434679-04	06/27/24 12:29
MW-7A	L2434679-05	06/27/24 12:38
MW-8B	L2434679-09	06/27/24 12:46
DUP	L2434679-11	06/27/24 12:55
EB	L2434679-12	06/27/24 13:03
MW-8B2	L2434679-14	06/27/24 13:12
WG1940092-5 CCAL	WG1940092-5	06/27/24 13:30
MW-7C	L2434679-07	06/27/24 14:31

Date Created: 03/07/23
Created By: Jason Hebert
File: PM14021-1
Page: 1

PCB - EPA 8082A (WATER)

Holding Time: 365 days
Container/Sample Preservation: 2 - Amber 1000ml unpreserved

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria		
Aroclor 1016	12674-11-2	0.25	0.0156	ug/l	40-140	50	40-140	50	50			
Aroclor 1221	11104-28-2	0.25	0.0221	ug/l	40-140	50	40-140	50	50			
Aroclor 1232	11141-16-5	0.25	0.046	ug/l	40-140	50	40-140	50	50			
Aroclor 1242	53469-21-9	0.25	0.0362	ug/l	40-140	50	40-140	50	50			
Aroclor 1248	12672-29-6	0.25	0.0455	ug/l	40-140	50	40-140	50	50			
Aroclor 1254	11097-69-1	0.25	0.0168	ug/l	40-140	50	40-140	50	50			
Aroclor 1260	11096-82-5	0.25	0.0344	ug/l	40-140	50	40-140	50	50			
Aroclor 1262	37324-23-5	0.25	0.033	ug/l	40-140	30	40-140	50	50			
Aroclor 1268	11100-14-4	0.25	0.0317	ug/l	40-140	30	40-140	50	50			
PCBs, Total	1336-36-3	0.25	0.0156	ug/l				50	50			
2,4,5,6-Tetrachloro-m-xylene	*877-09-8*									*30-150*		
Decachlorobiphenyl	*2051-24-3*									*30-150*		

Please Note that the RL information provided in this table is calculated using a 100% Solids factor. (Soil/Solids only)
Please Note that the information provided in this table is subject to change at anytime at the discretion of Alpha Analytical, Inc.

Date Created: 03/07/23
Created By: Jason Hebert
File: PM14022-1
Page: 1

PCB - EPA 8082A (SOIL)

Holding Time: 365 days
Container/Sample Preservation: 1 - Glass 250ml/8oz unpreserved

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria		
Aroclor 1016	12674-11-2	50	4.44	ug/kg	40-140	50	40-140	50	50			
Aroclor 1221	11104-28-2	50	5.01	ug/kg	40-140	50	40-140	50	50			
Aroclor 1232	11141-16-5	50	10.6	ug/kg	40-140	50	40-140	50	50			
Aroclor 1242	53469-21-9	50	6.74	ug/kg	40-140	50	40-140	50	50			
Aroclor 1248	12672-29-6	50	7.5	ug/kg	40-140	50	40-140	50	50			
Aroclor 1254	11097-69-1	50	5.47	ug/kg	40-140	50	40-140	50	50			
Aroclor 1260	11096-82-5	50	9.24	ug/kg	40-140	50	40-140	50	50			
Aroclor 1262	37324-23-5	50	6.35	ug/kg	40-140	30	40-140	50	50			
Aroclor 1268	11100-14-4	50	5.18	ug/kg	40-140	30	40-140	50	50			
PCBs, Total	1336-36-3	50	4.44	ug/kg				50	50			
2,4,5,6-Tetrachloro-m-xylene	*877-09-8*									*30-150*		
Decachlorobiphenyl	*2051-24-3*									*30-150*		

Please Note that the RL information provided in this table is calculated using a 100% Solids factor. (Soil/Solids only)
Please Note that the information provided in this table is subject to change at anytime at the discretion of Alpha Analytical, Inc.

Aroclor Sample Data

Results Summary
Form 1
Polychlorinated Biphenyls by GC

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Lab ID	: L2434679-01	**Date Collected**	: 06/19/24 09:30
Client ID	: MW-3A	**Date Received**	: 06/19/24
Sample Location	: MANORVILLE, NY	**Date Analyzed**	: 06/27/24 11:45
Sample Matrix	: WATER	**Date Extracted**	: 06/27/24
Analytical Method	: 1,8082A	**Dilution Factor**	: 1
Lab File ID	: P2240627a-22	**Analyst**	: MHG
Sample Amount	: 140 ml	**Instrument ID**	: PEST2
Extraction Method	: EPA 3510C	**GC Column**	: CLP-Pesticide
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL
Sulfur Cleanup	: Y		

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
12674-11-2	Aroclor 1016	ND	0.071	0.061	U
11104-28-2	Aroclor 1221	ND	0.071	0.061	U
11141-16-5	Aroclor 1232	ND	0.071	0.061	U
53469-21-9	Aroclor 1242	ND	0.071	0.061	U
12672-29-6	Aroclor 1248	ND	0.071	0.061	U
11097-69-1	Aroclor 1254	ND	0.071	0.061	U
11096-82-5	Aroclor 1260	ND	0.071	0.061	U
37324-23-5	Aroclor 1262	ND	0.071	0.061	U
11100-14-4	Aroclor 1268	ND	0.071	0.061	U
1336-36-3	PCBs, Total	ND	0.071	0.061	U

Results Summary
Form 1
Polychlorinated Biphenyls by GC

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Lab ID	: L2434679-02	**Date Collected**	: 06/18/24 16:35
Client ID	: MW-6A	**Date Received**	: 06/19/24
Sample Location	: MANORVILLE, NY	**Date Analyzed**	: 06/27/24 11:54
Sample Matrix	: WATER	**Date Extracted**	: 06/27/24
Analytical Method	: 1,8082A	**Dilution Factor**	: 1
Lab File ID	: P2240627a-23	**Analyst**	: MHG
Sample Amount	: 140 ml	**Instrument ID**	: PEST2
Extraction Method	: EPA 3510C	**GC Column**	: CLP-Pesticide
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL
Sulfur Cleanup	: Y		

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
12674-11-2	Aroclor 1016	ND	0.071	0.061	U
11104-28-2	Aroclor 1221	ND	0.071	0.061	U
11141-16-5	Aroclor 1232	ND	0.071	0.061	U
53469-21-9	Aroclor 1242	ND	0.071	0.061	U
12672-29-6	Aroclor 1248	ND	0.071	0.061	U
11097-69-1	Aroclor 1254	ND	0.071	0.061	U
11096-82-5	Aroclor 1260	ND	0.071	0.061	U
37324-23-5	Aroclor 1262	ND	0.071	0.061	U
11100-14-4	Aroclor 1268	ND	0.071	0.061	U
1336-36-3	PCBs, Total	ND	0.071	0.061	U

Results Summary
Form 1
Polychlorinated Biphenyls by GC

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Lab ID	: L2434679-03	**Date Collected**	: 06/18/24 14:50
Client ID	: MW-6B	**Date Received**	: 06/19/24
Sample Location	: MANORVILLE, NY	**Date Analyzed**	: 06/27/24 12:02
Sample Matrix	: WATER	**Date Extracted**	: 06/27/24
Analytical Method	: 1,8082A	**Dilution Factor**	: 1
Lab File ID	: P2240627a-24	**Analyst**	: MHG
Sample Amount	: 140 ml	**Instrument ID**	: PEST2
Extraction Method	: EPA 3510C	**GC Column**	: CLP-Pesticide
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL
Sulfur Cleanup	: Y		

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
12674-11-2	Aroclor 1016	ND	0.071	0.061	U
11104-28-2	Aroclor 1221	ND	0.071	0.061	U
11141-16-5	Aroclor 1232	ND	0.071	0.061	U
53469-21-9	Aroclor 1242	ND	0.071	0.061	U
12672-29-6	Aroclor 1248	ND	0.071	0.061	U
11097-69-1	Aroclor 1254	ND	0.071	0.061	U
11096-82-5	Aroclor 1260	ND	0.071	0.061	U
37324-23-5	Aroclor 1262	ND	0.071	0.061	U
11100-14-4	Aroclor 1268	ND	0.071	0.061	U
1336-36-3	PCBs, Total	ND	0.071	0.061	U

Results Summary
Form 1
Polychlorinated Biphenyls by GC

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Lab ID	: L2434679-04	**Date Collected**	: 06/18/24 14:49
Client ID	: MW-6C	**Date Received**	: 06/19/24
Sample Location	: MANORVILLE, NY	**Date Analyzed**	: 06/27/24 12:29
Sample Matrix	: WATER	**Date Extracted**	: 06/27/24
Analytical Method	: 1,8082A	**Dilution Factor**	: 1
Lab File ID	: P2240627a-27	**Analyst**	: MHG
Sample Amount	: 140 ml	**Instrument ID**	: PEST2
Extraction Method	: EPA 3510C	**GC Column**	: CLP-Pesticide
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL
Sulfur Cleanup	: Y		

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
12674-11-2	Aroclor 1016	ND	0.071	0.061	U
11104-28-2	Aroclor 1221	ND	0.071	0.061	U
11141-16-5	Aroclor 1232	ND	0.071	0.061	U
53469-21-9	Aroclor 1242	ND	0.071	0.061	U
12672-29-6	Aroclor 1248	ND	0.071	0.061	U
11097-69-1	Aroclor 1254	ND	0.071	0.061	U
11096-82-5	Aroclor 1260	ND	0.071	0.061	U
37324-23-5	Aroclor 1262	ND	0.071	0.061	U
11100-14-4	Aroclor 1268	ND	0.071	0.061	U
1336-36-3	PCBs, Total	ND	0.071	0.061	U

Results Summary
Form 1
Polychlorinated Biphenyls by GC

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Lab ID	: L2434679-05	**Date Collected**	: 06/18/24 10:15
Client ID	: MW-7A	**Date Received**	: 06/19/24
Sample Location	: MANORVILLE, NY	**Date Analyzed**	: 06/27/24 12:38
Sample Matrix	: WATER	**Date Extracted**	: 06/27/24
Analytical Method	: 1,8082A	**Dilution Factor**	: 1
Lab File ID	: P2240627a-28	**Analyst**	: MHG
Sample Amount	: 140 ml	**Instrument ID**	: PEST2
Extraction Method	: EPA 3510C	**GC Column**	: CLP-Pesticide
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL
Sulfur Cleanup	: Y		

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
12674-11-2	Aroclor 1016	ND	0.071	0.061	U
11104-28-2	Aroclor 1221	ND	0.071	0.061	U
11141-16-5	Aroclor 1232	ND	0.071	0.061	U
53469-21-9	Aroclor 1242	ND	0.071	0.061	U
12672-29-6	Aroclor 1248	ND	0.071	0.061	U
11097-69-1	Aroclor 1254	ND	0.071	0.061	U
11096-82-5	Aroclor 1260	ND	0.071	0.061	U
37324-23-5	Aroclor 1262	ND	0.071	0.061	U
11100-14-4	Aroclor 1268	ND	0.071	0.061	U
1336-36-3	PCBs, Total	ND	0.071	0.061	U

Results Summary
Form 1
Polychlorinated Biphenyls by GC

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Lab ID	: L2434679-06	**Date Collected**	: 06/18/24 12:05
Client ID	: MW-7B	**Date Received**	: 06/19/24
Sample Location	: MANORVILLE, NY	**Date Analyzed**	: 06/27/24 11:10
Sample Matrix	: WATER	**Date Extracted**	: 06/27/24
Analytical Method	: 1,8082A	**Dilution Factor**	: 1
Lab File ID	: P2240627a-18	**Analyst**	: MHG
Sample Amount	: 140 ml	**Instrument ID**	: PEST2
Extraction Method	: EPA 3510C	**GC Column**	: CLP-Pesticide
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL
Sulfur Cleanup	: Y		

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
12674-11-2	Aroclor 1016	ND	0.071	0.061	U
11104-28-2	Aroclor 1221	ND	0.071	0.061	U
11141-16-5	Aroclor 1232	ND	0.071	0.061	U
53469-21-9	Aroclor 1242	ND	0.071	0.061	U
12672-29-6	Aroclor 1248	ND	0.071	0.061	U
11097-69-1	Aroclor 1254	ND	0.071	0.061	U
11096-82-5	Aroclor 1260	ND	0.071	0.061	U
37324-23-5	Aroclor 1262	ND	0.071	0.061	U
11100-14-4	Aroclor 1268	ND	0.071	0.061	U
1336-36-3	PCBs, Total	ND	0.071	0.061	U

Results Summary
Form 1
Polychlorinated Biphenyls by GC

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Lab ID	: L2434679-07	**Date Collected**	: 06/18/24 12:12
Client ID	: MW-7C	**Date Received**	: 06/19/24
Sample Location	: MANORVILLE, NY	**Date Analyzed**	: 06/27/24 14:31
Sample Matrix	: WATER	**Date Extracted**	: 06/27/24
Analytical Method	: 1,8082A	**Dilution Factor**	: 1
Lab File ID	: P2240627a-39	**Analyst**	: MHG
Sample Amount	: 140 ml	**Instrument ID**	: PEST2
Extraction Method	: EPA 3510C	**GC Column**	: CLP-Pesticide
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL
Sulfur Cleanup	: Y		

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
12674-11-2	Aroclor 1016	ND	0.071	0.061	U
11104-28-2	Aroclor 1221	ND	0.071	0.061	U
11141-16-5	Aroclor 1232	ND	0.071	0.061	U
53469-21-9	Aroclor 1242	ND	0.071	0.061	U
12672-29-6	Aroclor 1248	ND	0.071	0.061	U
11097-69-1	Aroclor 1254	ND	0.071	0.061	U
11096-82-5	Aroclor 1260	ND	0.071	0.061	U
37324-23-5	Aroclor 1262	ND	0.071	0.061	U
11100-14-4	Aroclor 1268	ND	0.071	0.061	U
1336-36-3	PCBs, Total	ND	0.071	0.061	U

Results Summary
Form 1
Polychlorinated Biphenyls by GC

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Lab ID	: L2434679-08	**Date Collected**	: 06/18/24 16:47
Client ID	: MW-8A	**Date Received**	: 06/19/24
Sample Location	: MANORVILLE, NY	**Date Analyzed**	: 06/27/24 11:28
Sample Matrix	: WATER	**Date Extracted**	: 06/27/24
Analytical Method	: 1,8082A	**Dilution Factor**	: 1
Lab File ID	: P2240627a-20	**Analyst**	: MHG
Sample Amount	: 140 ml	**Instrument ID**	: PEST2
Extraction Method	: EPA 3510C	**GC Column**	: CLP-Pesticide
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL
Sulfur Cleanup	: Y		

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
12674-11-2	Aroclor 1016	ND	0.071	0.061	U
11104-28-2	Aroclor 1221	ND	0.071	0.061	U
11141-16-5	Aroclor 1232	ND	0.071	0.061	U
53469-21-9	Aroclor 1242	ND	0.071	0.061	U
12672-29-6	Aroclor 1248	ND	0.071	0.061	U
11097-69-1	Aroclor 1254	ND	0.071	0.061	U
11096-82-5	Aroclor 1260	ND	0.071	0.061	U
37324-23-5	Aroclor 1262	ND	0.071	0.061	U
11100-14-4	Aroclor 1268	ND	0.071	0.061	U
1336-36-3	PCBs, Total	ND	0.071	0.061	U

Results Summary
Form 1
Polychlorinated Biphenyls by GC

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Lab ID	: L2434679-09	**Date Collected**	: 06/18/24 18:25
Client ID	: MW-8B	**Date Received**	: 06/19/24
Sample Location	: MANORVILLE, NY	**Date Analyzed**	: 06/27/24 12:46
Sample Matrix	: WATER	**Date Extracted**	: 06/27/24
Analytical Method	: 1,8082A	**Dilution Factor**	: 1
Lab File ID	: P2240627a-29	**Analyst**	: MHG
Sample Amount	: 140 ml	**Instrument ID**	: PEST2
Extraction Method	: EPA 3510C	**GC Column**	: CLP-Pesticide
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL
Sulfur Cleanup	: Y		

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
12674-11-2	Aroclor 1016	ND	0.071	0.061	U
11104-28-2	Aroclor 1221	ND	0.071	0.061	U
11141-16-5	Aroclor 1232	ND	0.071	0.061	U
53469-21-9	Aroclor 1242	ND	0.071	0.061	U
12672-29-6	Aroclor 1248	ND	0.071	0.061	U
11097-69-1	Aroclor 1254	ND	0.071	0.061	U
11096-82-5	Aroclor 1260	ND	0.071	0.061	U
37324-23-5	Aroclor 1262	ND	0.071	0.061	U
11100-14-4	Aroclor 1268	ND	0.071	0.061	U
1336-36-3	PCBs, Total	ND	0.071	0.061	U

Results Summary
Form 1
Polychlorinated Biphenyls by GC

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Lab ID	: L2434679-10	**Date Collected**	: 06/19/24 11:00
Client ID	: MW-9B	**Date Received**	: 06/19/24
Sample Location	: MANORVILLE, NY	**Date Analyzed**	: 06/27/24 11:36
Sample Matrix	: WATER	**Date Extracted**	: 06/27/24
Analytical Method	: 1,8082A	**Dilution Factor**	: 1
Lab File ID	: P2240627a-21	**Analyst**	: MHG
Sample Amount	: 140 ml	**Instrument ID**	: PEST2
Extraction Method	: EPA 3510C	**GC Column**	: CLP-Pesticide
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL
Sulfur Cleanup	: Y		

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
12674-11-2	Aroclor 1016	ND	0.071	0.061	U
11104-28-2	Aroclor 1221	ND	0.071	0.061	U
11141-16-5	Aroclor 1232	ND	0.071	0.061	U
53469-21-9	Aroclor 1242	ND	0.071	0.061	U
12672-29-6	Aroclor 1248	ND	0.071	0.061	U
11097-69-1	Aroclor 1254	ND	0.071	0.061	U
11096-82-5	Aroclor 1260	ND	0.071	0.061	U
37324-23-5	Aroclor 1262	ND	0.071	0.061	U
11100-14-4	Aroclor 1268	ND	0.071	0.061	U
1336-36-3	PCBs, Total	ND	0.071	0.061	U

Results Summary
Form 1
Polychlorinated Biphenyls by GC

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Lab ID	: L2434679-11	**Date Collected**	: 06/18/24 00:00
Client ID	: DUP	**Date Received**	: 06/19/24
Sample Location	: MANORVILLE, NY	**Date Analyzed**	: 06/27/24 12:55
Sample Matrix	: WATER	**Date Extracted**	: 06/27/24
Analytical Method	: 1,8082A	**Dilution Factor**	: 1
Lab File ID	: P2240627a-30	**Analyst**	: MHG
Sample Amount	: 140 ml	**Instrument ID**	: PEST2
Extraction Method	: EPA 3510C	**GC Column**	: CLP-Pesticide
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL
Sulfur Cleanup	: Y		

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
12674-11-2	Aroclor 1016	ND	0.071	0.061	U
11104-28-2	Aroclor 1221	ND	0.071	0.061	U
11141-16-5	Aroclor 1232	ND	0.071	0.061	U
53469-21-9	Aroclor 1242	ND	0.071	0.061	U
12672-29-6	Aroclor 1248	ND	0.071	0.061	U
11097-69-1	Aroclor 1254	ND	0.071	0.061	U
11096-82-5	Aroclor 1260	ND	0.071	0.061	U
37324-23-5	Aroclor 1262	ND	0.071	0.061	U
11100-14-4	Aroclor 1268	ND	0.071	0.061	U
1336-36-3	PCBs, Total	ND	0.071	0.061	U

Results Summary
Form 1
Polychlorinated Biphenyls by GC

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Lab ID	: L2434679-12	**Date Collected**	: 06/18/24 19:00
Client ID	: EB	**Date Received**	: 06/19/24
Sample Location	: MANORVILLE, NY	**Date Analyzed**	: 06/27/24 13:03
Sample Matrix	: WATER	**Date Extracted**	: 06/27/24
Analytical Method	: 1,8082A	**Dilution Factor**	: 1
Lab File ID	: P2240627a-31	**Analyst**	: MHG
Sample Amount	: 140 ml	**Instrument ID**	: PEST2
Extraction Method	: EPA 3510C	**GC Column**	: CLP-Pesticide
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL
Sulfur Cleanup	: Y		

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
12674-11-2	Aroclor 1016	ND	0.071	0.061	U
11104-28-2	Aroclor 1221	ND	0.071	0.061	U
11141-16-5	Aroclor 1232	ND	0.071	0.061	U
53469-21-9	Aroclor 1242	ND	0.071	0.061	U
12672-29-6	Aroclor 1248	ND	0.071	0.061	U
11097-69-1	Aroclor 1254	ND	0.071	0.061	U
11096-82-5	Aroclor 1260	ND	0.071	0.061	U
37324-23-5	Aroclor 1262	ND	0.071	0.061	U
11100-14-4	Aroclor 1268	ND	0.071	0.061	U
1336-36-3	PCBs, Total	ND	0.071	0.061	U

Results Summary
Form 1
Polychlorinated Biphenyls by GC

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Lab ID	: L2434679-14	**Date Collected**	: 06/18/24 18:07
Client ID	: MW-8B2	**Date Received**	: 06/19/24
Sample Location	: MANORVILLE, NY	**Date Analyzed**	: 06/27/24 13:12
Sample Matrix	: WATER	**Date Extracted**	: 06/27/24
Analytical Method	: 1,8082A	**Dilution Factor**	: 1
Lab File ID	: P2240627a-32	**Analyst**	: MHG
Sample Amount	: 140 ml	**Instrument ID**	: PEST2
Extraction Method	: EPA 3510C	**GC Column**	: CLP-Pesticide
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL
Sulfur Cleanup	: Y		

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
12674-11-2	Aroclor 1016	ND	0.071	0.061	U
11104-28-2	Aroclor 1221	ND	0.071	0.061	U
11141-16-5	Aroclor 1232	ND	0.071	0.061	U
53469-21-9	Aroclor 1242	ND	0.071	0.061	U
12672-29-6	Aroclor 1248	ND	0.071	0.061	U
11097-69-1	Aroclor 1254	ND	0.071	0.061	U
11096-82-5	Aroclor 1260	ND	0.071	0.061	U
37324-23-5	Aroclor 1262	ND	0.071	0.061	U
11100-14-4	Aroclor 1268	ND	0.071	0.061	U
1336-36-3	PCBs, Total	ND	0.071	0.061	U

Results Summary
Form 1
Polychlorinated Biphenyls by GC

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Lab ID	: WG1939973-1	**Date Collected**	: NA
Client ID	: WG1939973-1BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 06/27/24 10:44
Sample Matrix	: WATER	**Date Extracted**	: 06/27/24
Analytical Method	: 1,8082A	**Dilution Factor**	: 1
Lab File ID	: P2240627a-15	**Analyst**	: MHG
Sample Amount	: 140 ml	**Instrument ID**	: PEST2
Extraction Method	: EPA 3510C	**GC Column**	: CLP-Pesticide
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL
Sulfur Cleanup	: Y		

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
12674-11-2	Aroclor 1016	ND	0.071	0.061	U
11104-28-2	Aroclor 1221	ND	0.071	0.061	U
11141-16-5	Aroclor 1232	ND	0.071	0.061	U
53469-21-9	Aroclor 1242	ND	0.071	0.061	U
12672-29-6	Aroclor 1248	ND	0.071	0.061	U
11097-69-1	Aroclor 1254	ND	0.071	0.061	U
11096-82-5	Aroclor 1260	ND	0.071	0.061	U
37324-23-5	Aroclor 1262	ND	0.071	0.061	U
11100-14-4	Aroclor 1268	ND	0.071	0.061	U
1336-36-3	PCBs, Total	ND	0.071	0.061	U

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240627A\
Data File : P2240627a-18.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 27 Jun 2024 11:10
Operator : pest2:mhg
Sample : L2434679-06,42,,
Misc : WG1940092,WG1939973,ical21102
ALS Vial : 18 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 27 11:25:54 2024
Quant Method : I:\PCB\Pest2\2024\240627A\P2_pcb_05_06_24_LVI_ugL_ICAL21102.m
Quant Title : pcb
QLast Update : Wed May 08 09:27:21 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PCB\Pest2\2024\240627A\P2240627a-02.D
Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Internal Standards							
1) i	1660_1br2nb	1.163	1.230	323.2E6	263.9E6	25.000M4	25.000M4
	Standard Area 1 : #1 = 386975749				Recovery =	83.51%	
	Standard Area 1 : #2 = 277930109				Recovery =	94.95%	
14) i	2154_1br2nb	1.163	1.230	323.2E6	263.9E6	25.000M4	25.000M4
23) i	4268_1br2nb	1.163	1.230	323.2E6	263.9E6	25.000M4	25.000M4
34) i	1248_1br2nb	1.163	1.230	323.2E6	263.9E6	25.000M4	25.000M4
40) i	3262_1br2nb	1.163	1.230	323.2E6	263.9E6	25.000M4	25.000M4
System Monitoring Compounds							
2) s	2,4,5,6-Tetr	1.446	1.602	328.3E6	217.4E6	19.377	16.719
	Spiked Amount 20.000	Range 30 - 150			Recovery =	96.89%	83.60%
3) s	Decachlorobi	4.013	4.524	234.8E6	166.4E6	21.446M4	27.176M3
	Spiked Amount 20.000	Range 30 - 150			Recovery =	107.23%	135.88%
Target Compounds							
4) l1	1016-1	0.000	0.000	0	0	N.D. d	N.D. d
5) l1	1016-2	0.000	0.000	0	0	N.D. d	N.D. d
6) l1	1016-3	0.000	0.000	0	0	N.D. d	N.D. d
7) l1	1016-4	0.000	0.000	0	0	N.D. d	N.D. d
8) l1	1016-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1016-1			0	0	N.D.	N.D.
	Average 1016-1					0.000	0.000
9) l2	1260-1	0.000	0.000	0	0	N.D. d	N.D. d
10) l2	1260-2	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\PCB\Pest2\2024\240627A\
Data File : P2240627a-18.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 27 Jun 2024 11:10
Operator : pest2:mhg
Sample : L2434679-06,42,,
Misc : WG1940092,WG1939973,ical21102
ALS Vial : 18 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 27 11:25:54 2024
Quant Method : I:\PCB\Pest2\2024\240627A\P2_pcb_05_06_24_LVI_ugL_ICAL21102.m
Quant Title : pcb
QLast Update : Wed May 08 09:27:21 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PCB\Pest2\2024\240627A\P2240627a-02.D
Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
11) l2 1260-3	0.000	0.000	0	0	N.D. d	N.D. d
12) l2 1260-4	0.000	0.000	0	0	N.D. d	N.D. d
13) l2 1260-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1260-1			0	0	N.D.	N.D.
Average 1260-1					0.000	0.000
15) l3 1221-2	0.000	0.000	0	0	N.D. d	N.D. d
16) l3 1221-3	0.000	0.000	0	0	N.D. d	N.D. d
17) l3 1221-4	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1221-2			0	0	N.D.	N.D.
Average 1221-2					0.000	0.000
18) l4 1254-1	0.000	0.000	0	0	N.D. d	N.D. d
19) l4 1254-2	0.000	0.000	0	0	N.D. d	N.D. d
20) l4 1254-3	0.000	0.000	0	0	N.D. d	N.D. d
21) l4 1254-4	0.000	0.000	0	0	N.D. d	N.D. d
22) l4 1254-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1254-1			0	0	N.D.	N.D.
Average 1254-1					0.000	0.000
24) l6 1242-1	0.000	0.000	0	0	N.D. d	N.D. d
25) l6 1242-2	0.000	0.000	0	0	N.D. d	N.D. d
26) l6 1242-3	0.000	0.000	0	0	N.D. d	N.D. d
27) l6 1242-4	0.000	0.000	0	0	N.D. d	N.D. d
28) l6 1242-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1242-1			0	0	N.D.	N.D.
Average 1242-1					0.000	0.000
29) l9 1268-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l9 1268-2	0.000	0.000	0	0	N.D.	N.D.
31) l9 1268-3	0.000	0.000	0	0	N.D. d	N.D. d
32) l9 1268-4	0.000	0.000	0	0	N.D. d	N.D. d
33) l9 1268-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1268-1			0	0	N.D.	N.D.
Average 1268-1					0.000	0.000
35) l7 1248-1	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\PCB\Pest2\2024\240627A\
Data File : P2240627a-18.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 27 Jun 2024 11:10
Operator : pest2:mhg
Sample : L2434679-06,42,,
Misc : WG1940092,WG1939973,ical21102
ALS Vial : 18 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 27 11:25:54 2024
Quant Method : I:\PCB\Pest2\2024\240627A\P2_pcb_05_06_24_LVI_ugL_ICAL21102.m
Quant Title : pcb
QLast Update : Wed May 08 09:27:21 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PCB\Pest2\2024\240627A\P2240627a-02.D
Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
36) l7 1248-2	0.000	0.000	0	0	N.D. d	N.D. d
37) l7 1248-3	0.000	0.000	0	0	N.D. d	N.D. d
38) l7 1248-4	0.000	0.000	0	0	N.D. d	N.D. d
39) l7 1248-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1248-1			0	0	N.D.	N.D.
Average 1248-1					0.000	0.000
41) l5 1232-1	0.000	0.000	0	0	N.D. d	N.D. d
42) l5 1232-2	0.000	0.000	0	0	N.D. d	N.D. d
43) l5 1232-3	0.000	0.000	0	0	N.D. d	N.D. d
44) l5 1232-4	0.000	0.000	0	0	N.D. d	N.D. d
45) l5 1232-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1232-1			0	0	N.D.	N.D.
Average 1232-1					0.000	0.000
46) l8 1262-1	0.000	0.000	0	0	N.D. d	N.D. d
47) l8 1262-2	0.000	0.000	0	0	N.D. d	N.D. d
48) l8 1262-3	0.000	0.000	0	0	N.D. d	N.D. d
49) l8 1262-4	0.000	0.000	0	0	N.D. d	N.D. d
50) l8 1262-5	0.000	0.000	0	0	N.D.	N.D.
Sum 1262-1			0	0	N.D.	N.D.
Average 1262-1					0.000	0.000
SemiQuant Compounds - Not Calibrated on this Instrument						
Sum 1262-1			0	0	N.D.	N.D.
Average 1262-1					0.000	0.000

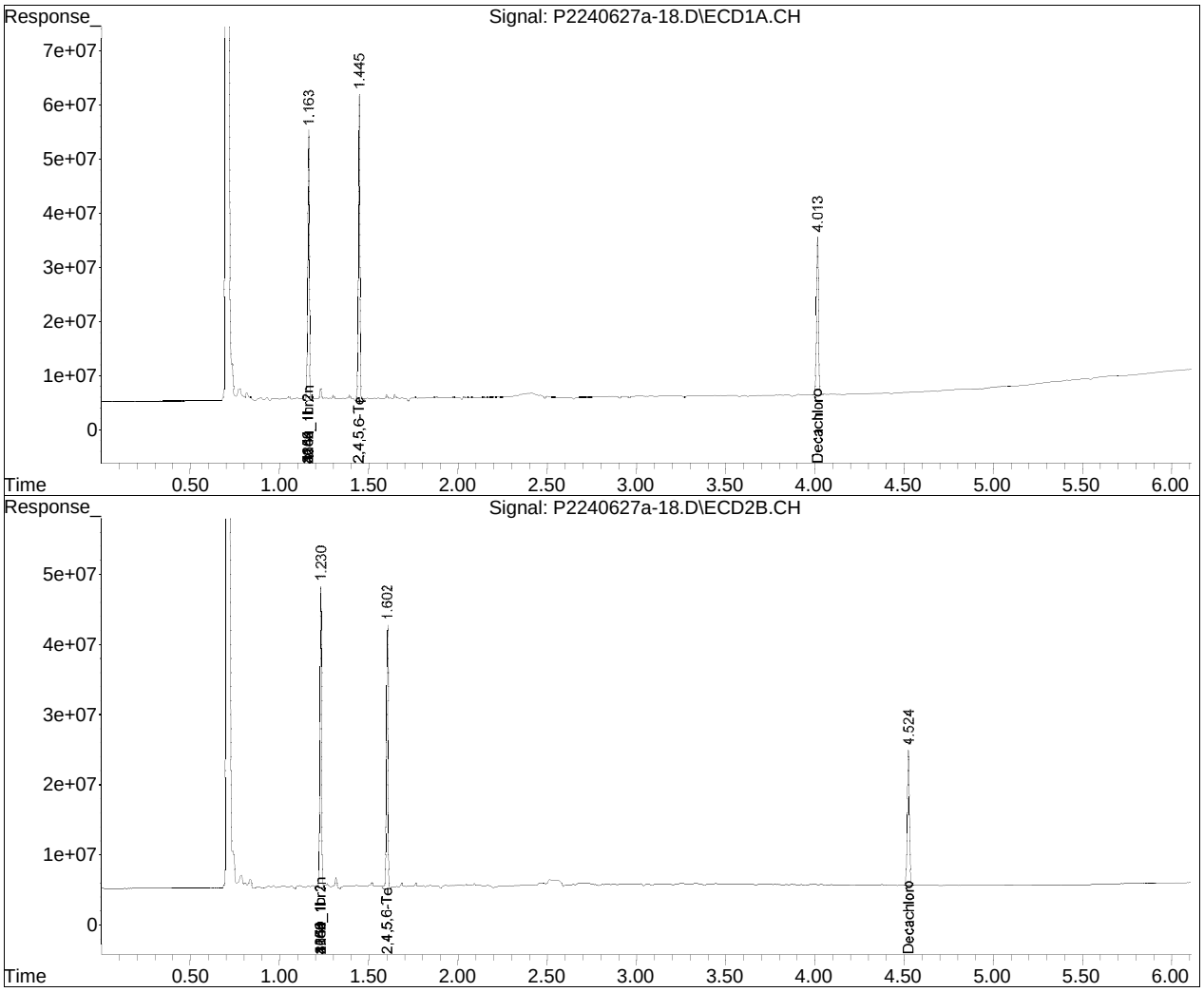
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listedP2240627a-02.D•

Data Path : I:\PCB\Pest2\2024\240627A\
Data File : P2240627a-18.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 27 Jun 2024 11:10
Operator : pest2:mhg
Sample : L2434679-06,42,,
Misc : WG1940092,WG1939973,ical21102
ALS Vial : 18 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 27 11:25:54 2024
Quant Method : I:\PCB\Pest2\2024\240627A\P2_pcb_05_06_24_LVI_ugL_ICAL21102.m
Quant Title : pcb
QLast Update : Wed May 08 09:27:21 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

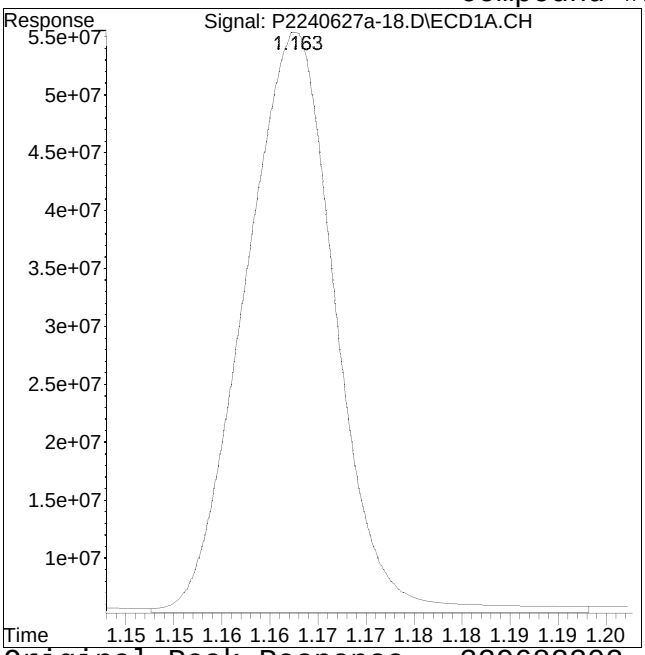
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

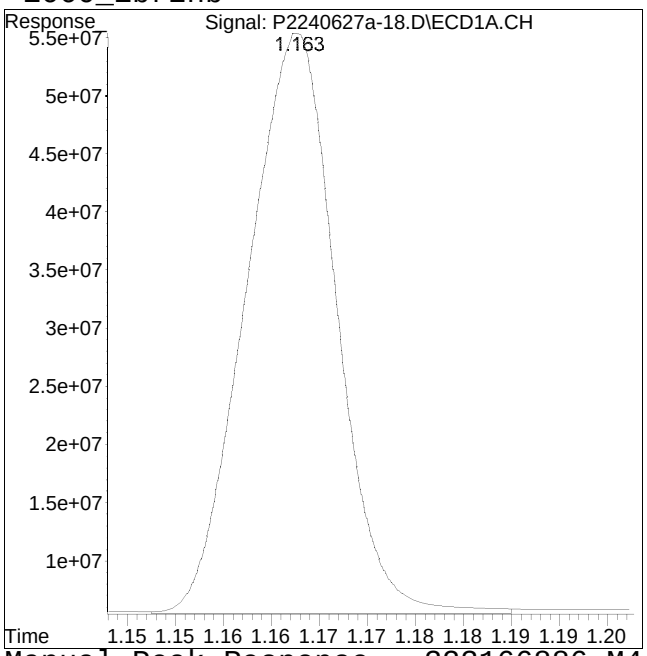


Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240627A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240627a-18.D Operator : pest2:mhg
Date Inj'd : 6/27/2024 11:10 Instrument : Pest 2
Sample : L2434679-06,42,, Quant Date : 6/27/2024 11:25 am

Compound #1: 1660_1br2nb



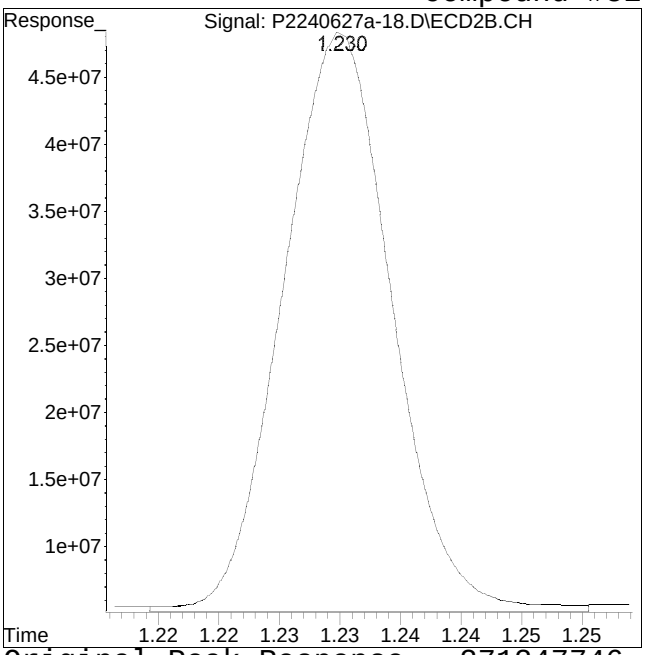


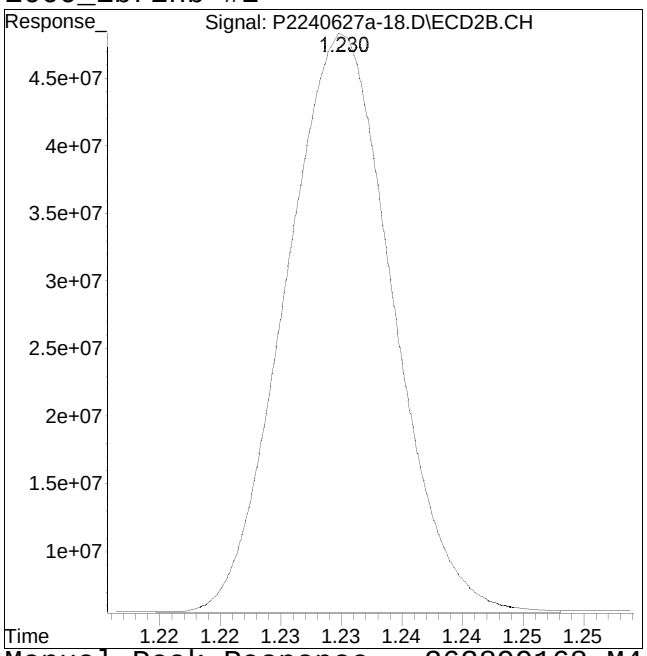
Original Peak Response = 329682302 Manual Peak Response = 323166886 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240627A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240627a-18.D Operator : pest2:mhg
Date Inj'd : 6/27/2024 11:10 Instrument : Pest 2
Sample : L2434679-06,42,, Quant Date : 6/27/2024 11:25 am

Compound #52: 1660_1br2nb #2



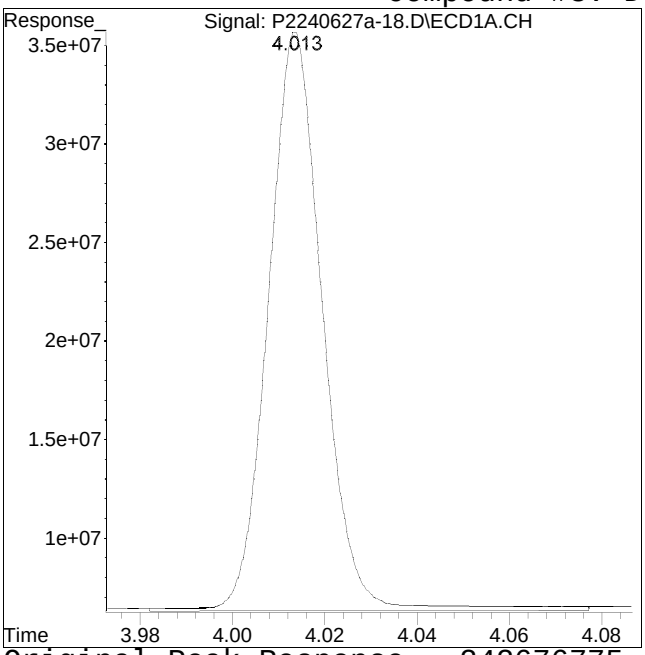


Original Peak Response = 271247746 Manual Peak Response = 263899168 M4
M4 = Poor automated baseline construction.

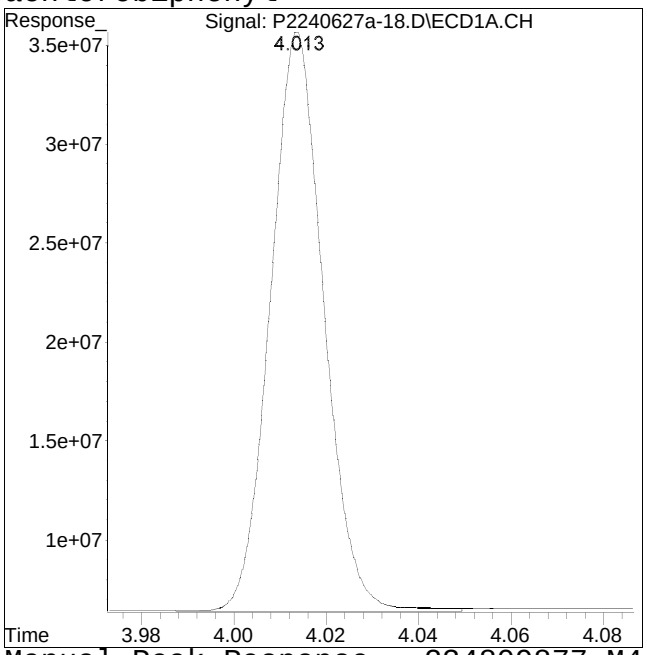
Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240627A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240627a-18.D Operator : pest2:mhg
Date Inj'd : 6/27/2024 11:10 Instrument : Pest 2
Sample : L2434679-06,42,, Quant Date : 6/27/2024 11:25 am

Compound #3: Decachlorobiphenyl



Original Peak Response = 242676775



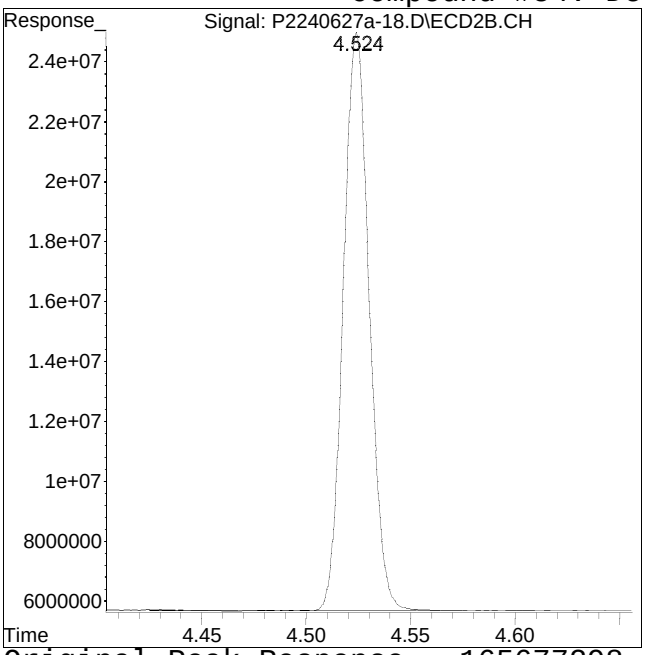
Manual Peak Response = 234809877 M4

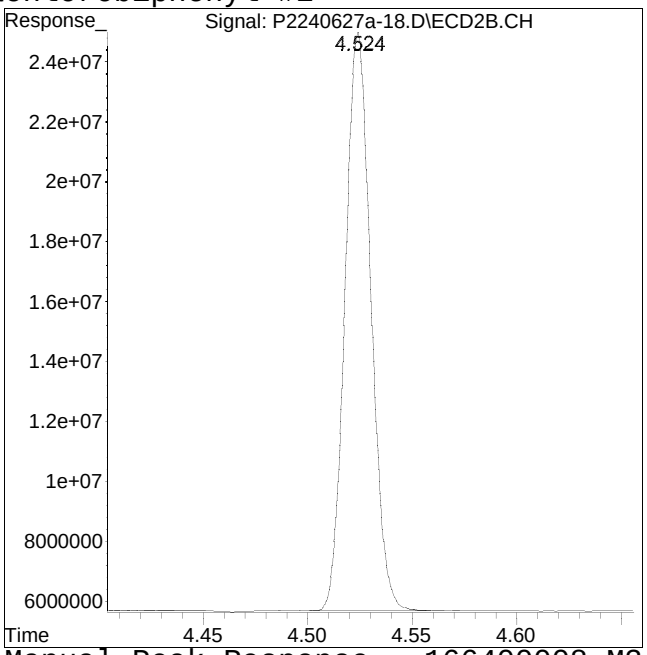
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240627A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240627a-18.D Operator : pest2:mhg
Date Inj'd : 6/27/2024 11:10 Instrument : Pest 2
Sample : L2434679-06,42,, Quant Date : 6/27/2024 11:25 am

Compound #54: Decachlorobiphenyl #2





Original Peak Response = 165677298 Manual Peak Response = 166400008 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240627A\
Data File : P2240627a-20.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 27 Jun 2024 11:28
Operator : pest2:mhg
Sample : L2434679-08,42,,
Misc : WG1940092,WG1939973,ical21102
ALS Vial : 20 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 27 12:23:12 2024
Quant Method : I:\PCB\Pest2\2024\240627A\P2_pcb_05_06_24_LVI_ugL_ICAL21102.m
Quant Title : pcb
QLast Update : Wed May 08 09:27:21 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PCB\Pest2\2024\240627A\P2240627a-02.D
Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Internal Standards							
1) i	1660_1br2nb	1.160	1.228	374.7E6	254.8E6	25.000M4	25.000M4
	Standard Area 1 : #1 = 386975749				Recovery =	96.83%	
	Standard Area 1 : #2 = 277930109				Recovery =	91.68%	
14) i	2154_1br2nb	1.160	1.228	374.7E6	254.8E6	25.000M4	25.000M4
23) i	4268_1br2nb	1.160	1.228	374.7E6	254.8E6	25.000M4	25.000M4
34) i	1248_1br2nb	1.160	1.228	374.7E6	254.8E6	25.000M4	25.000M4
40) i	3262_1br2nb	1.160	1.228	374.7E6	254.8E6	25.000M4	25.000M4
System Monitoring Compounds							
2) s	2,4,5,6-Tetr	1.445	1.601	348.1E6	226.2E6	17.717	18.016M4
	Spiked Amount 20.000	Range 30 - 150			Recovery =	88.58%	90.08%
3) s	Decachlorobi	4.015	4.524	238.1E6	171.1E6	18.760	28.944M3
	Spiked Amount 20.000	Range 30 - 150			Recovery =	93.80%	144.72%
Target Compounds							
4) l1	1016-1	0.000	0.000	0	0	N.D. d	N.D. d
5) l1	1016-2	0.000	0.000	0	0	N.D. d	N.D. d
6) l1	1016-3	0.000	0.000	0	0	N.D. d	N.D. d
7) l1	1016-4	0.000	0.000	0	0	N.D. d	N.D. d
8) l1	1016-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1016-1			0	0	N.D.	N.D.
	Average 1016-1					0.000	0.000
9) l2	1260-1	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\PCB\Pest2\2024\240627A\
Data File : P2240627a-20.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 27 Jun 2024 11:28
Operator : pest2:mhg
Sample : L2434679-08,42,,
Misc : WG1940092,WG1939973,ical21102
ALS Vial : 20 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 27 12:23:12 2024
Quant Method : I:\PCB\Pest2\2024\240627A\P2_pcb_05_06_24_LVI_ugL_ICAL21102.m
Quant Title : pcb
QLast Update : Wed May 08 09:27:21 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PCB\Pest2\2024\240627A\P2240627a-02.D
Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
10) l2 1260-2	0.000	0.000	0	0	N.D. d	N.D. d
11) l2 1260-3	0.000	0.000	0	0	N.D. d	N.D. d
12) l2 1260-4	0.000	0.000	0	0	N.D.	N.D.
13) l2 1260-5	0.000	0.000	0	0	N.D.	N.D.
Sum 1260-1			0	0	N.D.	N.D.
Average 1260-1					0.000	0.000
15) l3 1221-2	0.000	0.000	0	0	N.D.	N.D.
16) l3 1221-3	0.000	0.000	0	0	N.D. d	N.D. d
17) l3 1221-4	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1221-2			0	0	N.D.	N.D.
Average 1221-2					0.000	0.000
18) l4 1254-1	0.000	0.000	0	0	N.D. d	N.D. d
19) l4 1254-2	0.000	0.000	0	0	N.D. d	N.D. d
20) l4 1254-3	0.000	0.000	0	0	N.D.	N.D.
21) l4 1254-4	0.000	0.000	0	0	N.D. d	N.D. d
22) l4 1254-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1254-1			0	0	N.D.	N.D.
Average 1254-1					0.000	0.000
24) l6 1242-1	0.000	0.000	0	0	N.D. d	N.D. d
25) l6 1242-2	0.000	0.000	0	0	N.D. d	N.D. d
26) l6 1242-3	0.000	0.000	0	0	N.D. d	N.D. d
27) l6 1242-4	0.000	0.000	0	0	N.D. d	N.D. d
28) l6 1242-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1242-1			0	0	N.D.	N.D.
Average 1242-1					0.000	0.000
29) l9 1268-1	0.000	0.000	0	0	N.D.	N.D.
30) l9 1268-2	0.000	0.000	0	0	N.D.	N.D.
31) l9 1268-3	0.000	0.000	0	0	N.D.	N.D.
32) l9 1268-4	0.000	0.000	0	0	N.D. d	N.D. d
33) l9 1268-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1268-1			0	0	N.D.	N.D.
Average 1268-1					0.000	0.000

Data Path : I:\PCB\Pest2\2024\240627A\
Data File : P2240627a-20.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 27 Jun 2024 11:28
Operator : pest2:mhg
Sample : L2434679-08,42,,
Misc : WG1940092,WG1939973,ical21102
ALS Vial : 20 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 27 12:23:12 2024
Quant Method : I:\PCB\Pest2\2024\240627A\P2_pcb_05_06_24_LVI_ugL_ICAL21102.m
Quant Title : pcb
QLast Update : Wed May 08 09:27:21 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PCB\Pest2\2024\240627A\P2240627a-02.D
Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
35) l7 1248-1	0.000	0.000	0	0	N.D. d	N.D. d
36) l7 1248-2	0.000	0.000	0	0	N.D. d	N.D. d
37) l7 1248-3	0.000	0.000	0	0	N.D. d	N.D. d
38) l7 1248-4	0.000	0.000	0	0	N.D. d	N.D. d
39) l7 1248-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1248-1			0	0	N.D.	N.D.
Average 1248-1					0.000	0.000
41) l5 1232-1	0.000	0.000	0	0	N.D. d	N.D. d
42) l5 1232-2	0.000	0.000	0	0	N.D. d	N.D. d
43) l5 1232-3	0.000	0.000	0	0	N.D. d	N.D. d
44) l5 1232-4	0.000	0.000	0	0	N.D. d	N.D. d
45) l5 1232-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1232-1			0	0	N.D.	N.D.
Average 1232-1					0.000	0.000
46) l8 1262-1	0.000	0.000	0	0	N.D. d	N.D. d
47) l8 1262-2	0.000	0.000	0	0	N.D. d	N.D. d
48) l8 1262-3	0.000	0.000	0	0	N.D. d	N.D. d
49) l8 1262-4	0.000	0.000	0	0	N.D.	N.D.
50) l8 1262-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1262-1			0	0	N.D.	N.D.
Average 1262-1					0.000	0.000
SemiQuant Compounds - Not Calibrated on this Instrument						
Sum 1262-1			0	0	N.D.	N.D.
Average 1262-1					0.000	0.000

(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240627A\
Data File : P2240627a-20.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 27 Jun 2024 11:28
Operator : pest2:mhg
Sample : L2434679-08,42,,
Misc : WG1940092,WG1939973,ical21102
ALS Vial : 20 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 27 12:23:12 2024
Quant Method : I:\PCB\Pest2\2024\240627A\P2_pcb_05_06_24_LVI_ugL_ICAL21102.m
Quant Title : pcb
QLast Update : Wed May 08 09:27:21 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PCB\Pest2\2024\240627A\P2240627a-02.D
Sub List : Default - All compounds listed

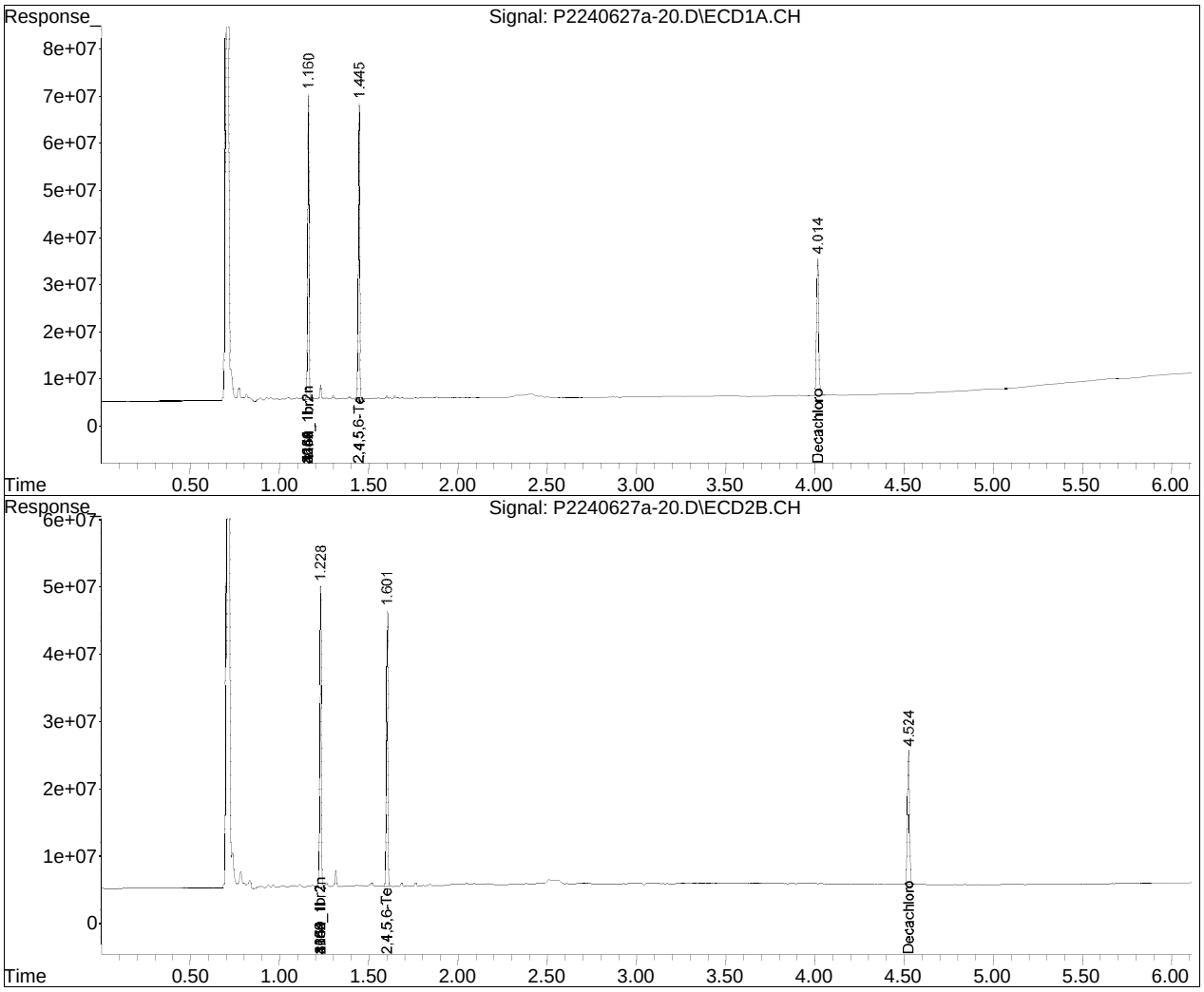
Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l

Sub List : Default - All compounds listedP2240627a-02.D•

Data Path : I:\PCB\Pest2\2024\240627A\
Data File : P2240627a-20.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 27 Jun 2024 11:28
Operator : pest2:mhg
Sample : L2434679-08,42,,
Misc : WG1940092,WG1939973,ical21102
ALS Vial : 20 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 27 12:23:12 2024
Quant Method : I:\PCB\Pest2\2024\240627A\P2_pcb_05_06_24_LVI_ugL_ICAL21102.m
Quant Title : pcb
QLast Update : Wed May 08 09:27:21 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

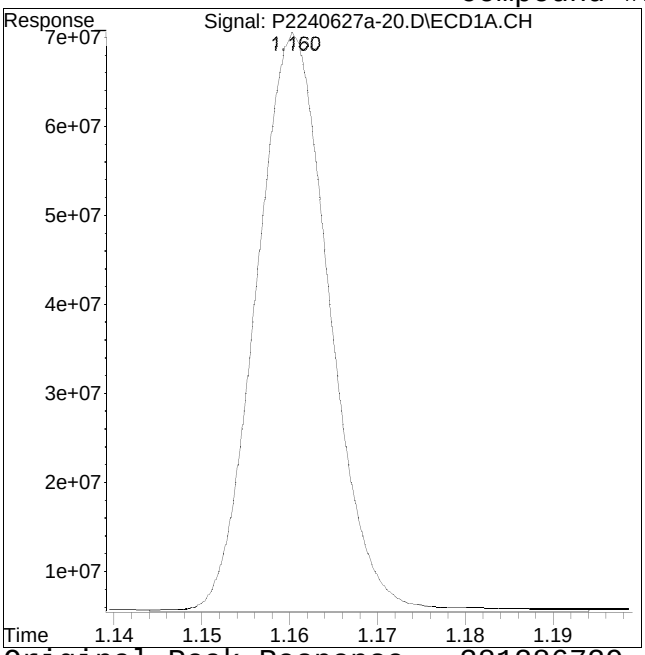
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

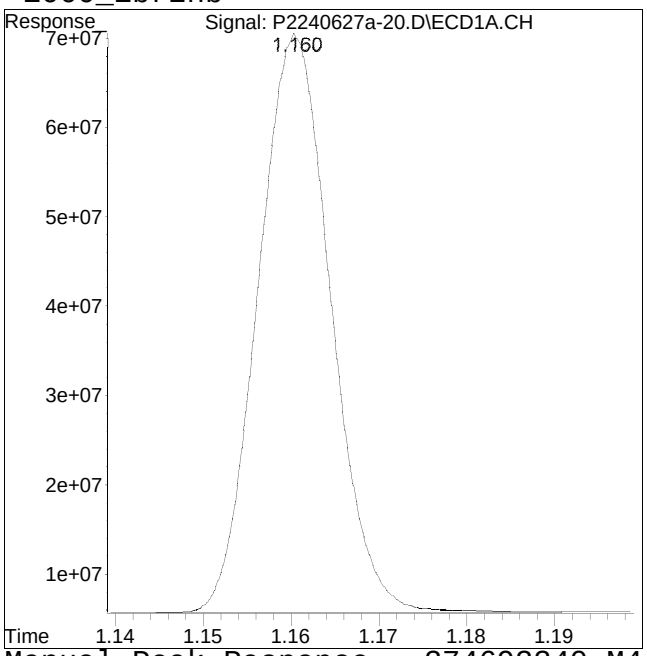


Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240627A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240627a-20.D Operator : pest2:mhg
Date Inj'd : 6/27/2024 11:28 Instrument : Pest 2
Sample : L2434679-08,42,, Quant Date : 6/27/2024 12:23 pm

Compound #1: 1660_1br2nb



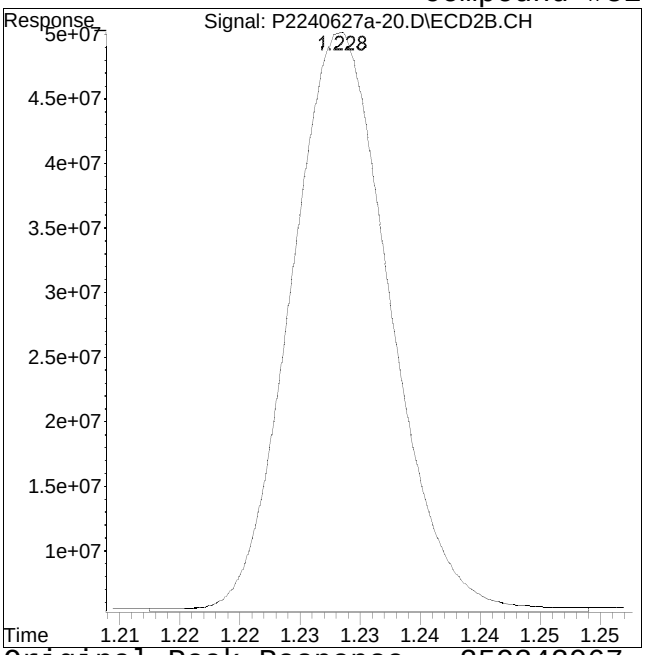


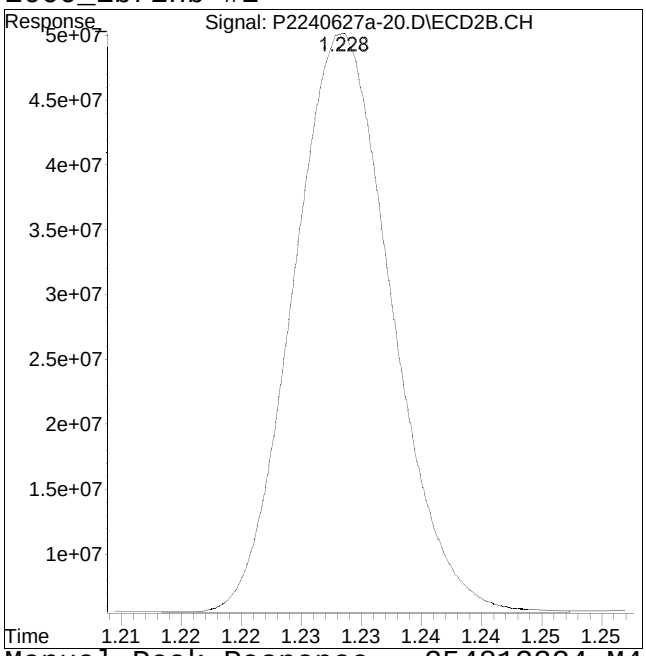
Original Peak Response = 381286729 Manual Peak Response = 374693340 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240627A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240627a-20.D Operator : pest2:mhg
Date Inj'd : 6/27/2024 11:28 Instrument : Pest 2
Sample : L2434679-08,42,, Quant Date : 6/27/2024 12:23 pm

Compound #52: 1660_1br2nb #2



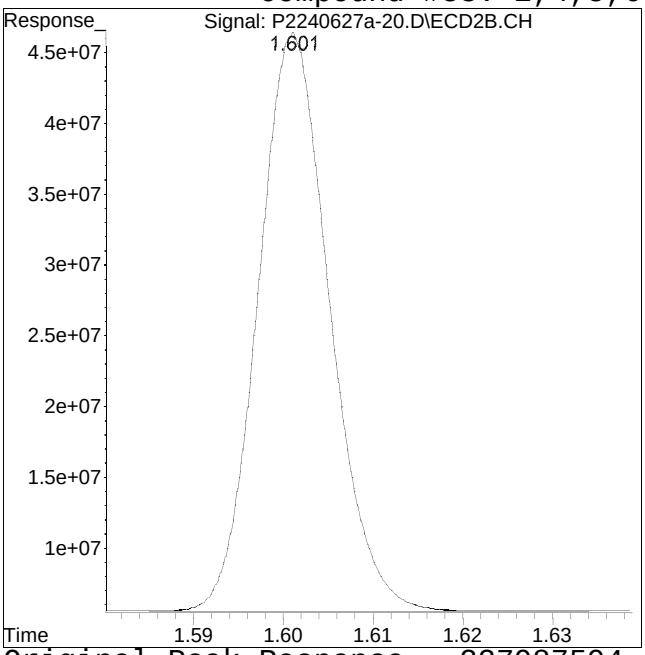


Original Peak Response = 259342967 Manual Peak Response = 254813324 M4
M4 = Poor automated baseline construction.

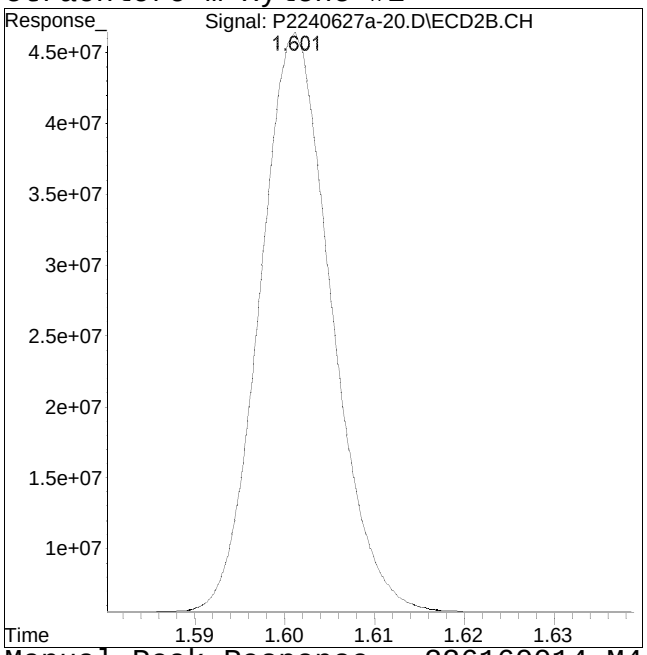
Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240627A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240627a-20.D Operator : pest2:mhg
Date Inj'd : 6/27/2024 11:28 Instrument : Pest 2
Sample : L2434679-08,42,, Quant Date : 6/27/2024 12:23 pm

Compound #53: 2,4,5,6-Tetrachloro-m-xylene #2



Original Peak Response = 227987594



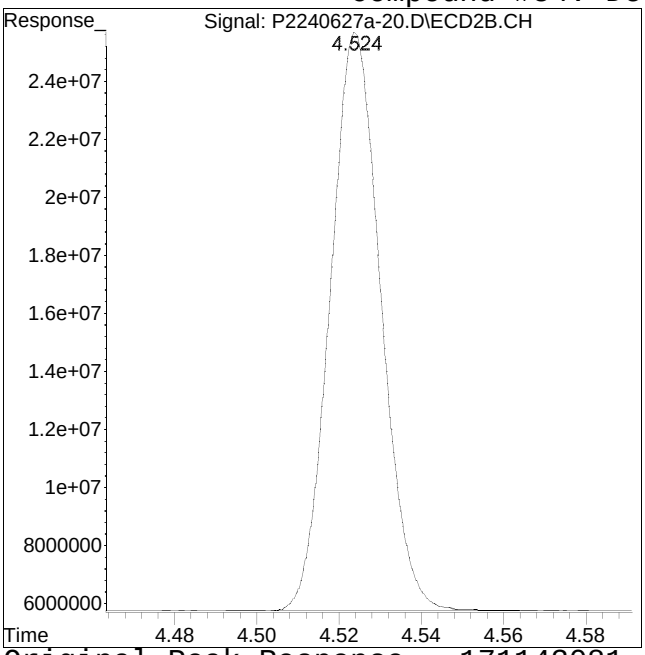
Manual Peak Response = 226160014 M4

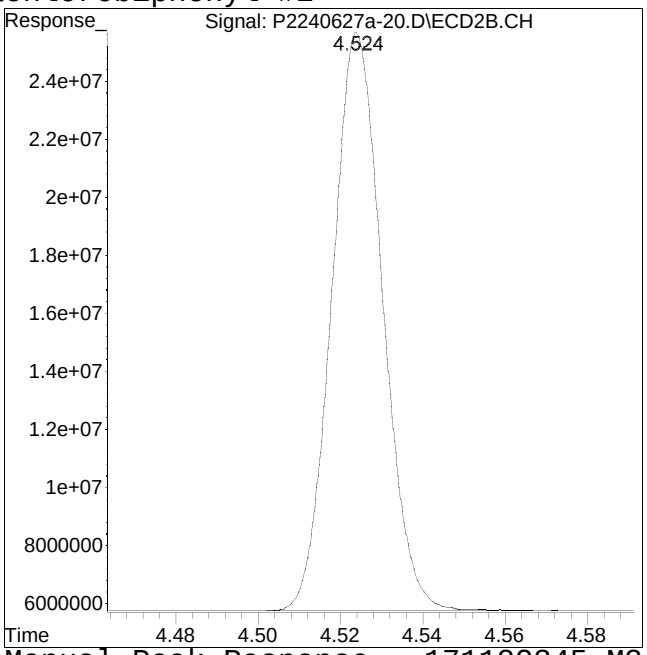
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240627A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240627a-20.D Operator : pest2:mhg
Date Inj'd : 6/27/2024 11:28 Instrument : Pest 2
Sample : L2434679-08,42,, Quant Date : 6/27/2024 12:23 pm

Compound #54: Decachlorobiphenyl #2





Original Peak Response = 171143081 Manual Peak Response = 171122345 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240627A\
Data File : P2240627a-21.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 27 Jun 2024 11:36
Operator : pest2:mhg
Sample : L2434679-10,42,,
Misc : WG1940092,WG1939973,ical21102
ALS Vial : 21 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 27 12:23:15 2024
Quant Method : I:\PCB\Pest2\2024\240627A\P2_pcb_05_06_24_LVI_ugL_ICAL21102.m
Quant Title : pcb
QLast Update : Wed May 08 09:27:21 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PCB\Pest2\2024\240627A\P2240627a-02.D
Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Internal Standards							
1) i	1660_1br2nb	1.161	1.230	360.7E6	251.9E6	25.000M4	25.000M4
	Standard Area 1 : #1 = 386975749				Recovery =	93.21%	
	Standard Area 1 : #2 = 277930109				Recovery =	90.62%	
14) i	2154_1br2nb	1.161	1.230	360.7E6	251.9E6	25.000M4	25.000M4
23) i	4268_1br2nb	1.161	1.230	360.7E6	251.9E6	25.000M4	25.000M4
34) i	1248_1br2nb	1.161	1.230	360.7E6	251.9E6	25.000M4	25.000M4
40) i	3262_1br2nb	1.161	1.230	360.7E6	251.9E6	25.000M4	25.000M4
System Monitoring Compounds							
2) s	2,4,5,6-Tetr	1.445	1.602	354.3E6	234.7E6	18.737	18.916
	Spiked Amount 20.000	Range 30 - 150			Recovery =	93.69%	94.58%
3) s	Decachlorobi	4.013	4.523	250.2E6	178.3E6	20.479	30.516
	Spiked Amount 20.000	Range 30 - 150			Recovery =	102.40%	152.58%#
Target Compounds							
4) l1	1016-1	0.000	0.000	0	0	N.D. d	N.D. d
5) l1	1016-2	0.000	0.000	0	0	N.D. d	N.D. d
6) l1	1016-3	0.000	0.000	0	0	N.D. d	N.D. d
7) l1	1016-4	0.000	0.000	0	0	N.D. d	N.D. d
8) l1	1016-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1016-1			0	0	N.D.	N.D.
	Average 1016-1					0.000	0.000
9) l2	1260-1	0.000	0.000	0	0	N.D. d	N.D. d
10) l2	1260-2	0.000	0.000	0	0	N.D. d	N.D. d
11) l2	1260-3	0.000	0.000	0	0	N.D.	N.D.

Data Path : I:\PCB\Pest2\2024\240627A\
Data File : P2240627a-21.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 27 Jun 2024 11:36
Operator : pest2:mhg
Sample : L2434679-10,42,,
Misc : WG1940092,WG1939973,ical21102
ALS Vial : 21 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 27 12:23:15 2024
Quant Method : I:\PCB\Pest2\2024\240627A\P2_pcb_05_06_24_LVI_ugL_ICAL21102.m
Quant Title : pcb
QLast Update : Wed May 08 09:27:21 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PCB\Pest2\2024\240627A\P2240627a-02.D
Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
12) l2 1260-4	0.000	0.000	0	0	N.D.	N.D.
13) l2 1260-5	0.000	0.000	0	0	N.D.	N.D.
Sum 1260-1			0	0	N.D.	N.D.
Average 1260-1					0.000	0.000
15) l3 1221-2	0.000	0.000	0	0	N.D. d	N.D. d
16) l3 1221-3	0.000	0.000	0	0	N.D. d	N.D. d
17) l3 1221-4	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1221-2			0	0	N.D.	N.D.
Average 1221-2					0.000	0.000
18) l4 1254-1	0.000	0.000	0	0	N.D. d	N.D. d
19) l4 1254-2	0.000	0.000	0	0	N.D. d	N.D. d
20) l4 1254-3	0.000	0.000	0	0	N.D.	N.D.
21) l4 1254-4	0.000	0.000	0	0	N.D. d	N.D. d
22) l4 1254-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1254-1			0	0	N.D.	N.D.
Average 1254-1					0.000	0.000
24) l6 1242-1	0.000	0.000	0	0	N.D. d	N.D. d
25) l6 1242-2	0.000	0.000	0	0	N.D. d	N.D. d
26) l6 1242-3	0.000	0.000	0	0	N.D. d	N.D. d
27) l6 1242-4	0.000	0.000	0	0	N.D. d	N.D. d
28) l6 1242-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1242-1			0	0	N.D.	N.D.
Average 1242-1					0.000	0.000
29) l9 1268-1	0.000	0.000	0	0	N.D.	N.D.
30) l9 1268-2	0.000	0.000	0	0	N.D.	N.D.
31) l9 1268-3	0.000	0.000	0	0	N.D. d	N.D. d
32) l9 1268-4	0.000	0.000	0	0	N.D. d	N.D. d
33) l9 1268-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1268-1			0	0	N.D.	N.D.
Average 1268-1					0.000	0.000
35) l7 1248-1	0.000	0.000	0	0	N.D. d	N.D. d
36) l7 1248-2	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\PCB\Pest2\2024\240627A\
Data File : P2240627a-21.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 27 Jun 2024 11:36
Operator : pest2:mhg
Sample : L2434679-10,42,,
Misc : WG1940092,WG1939973,ical21102
ALS Vial : 21 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 27 12:23:15 2024
Quant Method : I:\PCB\Pest2\2024\240627A\P2_pcb_05_06_24_LVI_ugL_ICAL21102.m
Quant Title : pcb
QLast Update : Wed May 08 09:27:21 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PCB\Pest2\2024\240627A\P2240627a-02.D
Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
37) l7 1248-3	0.000	0.000	0	0	N.D. d	N.D. d
38) l7 1248-4	0.000	0.000	0	0	N.D. d	N.D. d
39) l7 1248-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1248-1			0	0	N.D.	N.D.
Average 1248-1					0.000	0.000
41) l5 1232-1	0.000	0.000	0	0	N.D. d	N.D. d
42) l5 1232-2	0.000	0.000	0	0	N.D. d	N.D. d
43) l5 1232-3	0.000	0.000	0	0	N.D. d	N.D. d
44) l5 1232-4	0.000	0.000	0	0	N.D. d	N.D. d
45) l5 1232-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1232-1			0	0	N.D.	N.D.
Average 1232-1					0.000	0.000
46) l8 1262-1	0.000	0.000	0	0	N.D. d	N.D. d
47) l8 1262-2	0.000	0.000	0	0	N.D. d	N.D. d
48) l8 1262-3	0.000	0.000	0	0	N.D.	N.D.
49) l8 1262-4	0.000	0.000	0	0	N.D.	N.D.
50) l8 1262-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1262-1			0	0	N.D.	N.D.
Average 1262-1					0.000	0.000
SemiQuant Compounds - Not Calibrated on this Instrument						
Sum 1262-1			0	0	N.D.	N.D.
Average 1262-1					0.000	0.000

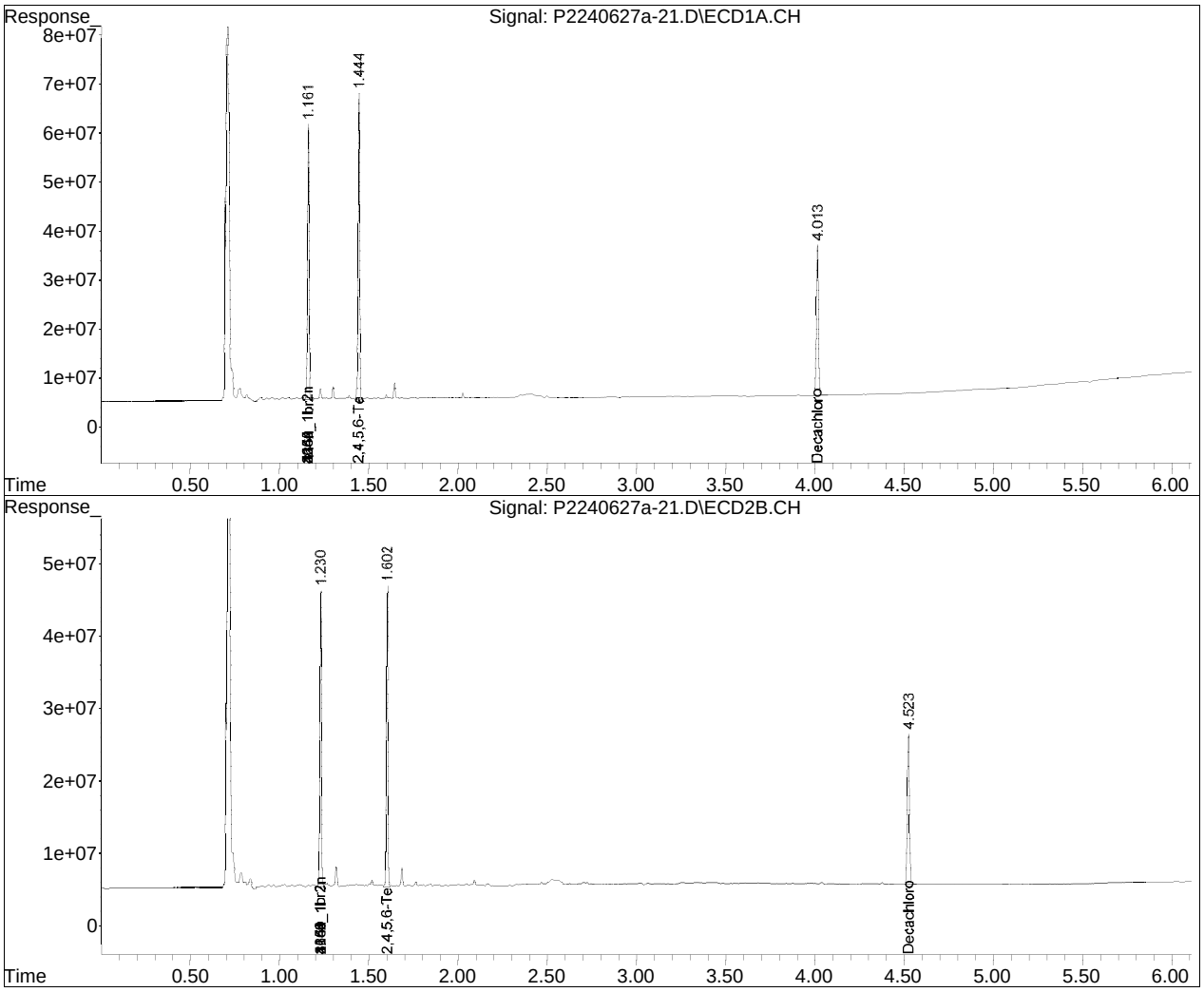
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listedP2240627a-02.D•

Data Path : I:\PCB\Pest2\2024\240627A\
Data File : P2240627a-21.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 27 Jun 2024 11:36
Operator : pest2:mhg
Sample : L2434679-10,42,,
Misc : WG1940092,WG1939973,ical21102
ALS Vial : 21 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 27 12:23:15 2024
Quant Method : I:\PCB\Pest2\2024\240627A\P2_pcb_05_06_24_LVI_ugL_ICAL21102.m
Quant Title : pcb
QLast Update : Wed May 08 09:27:21 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

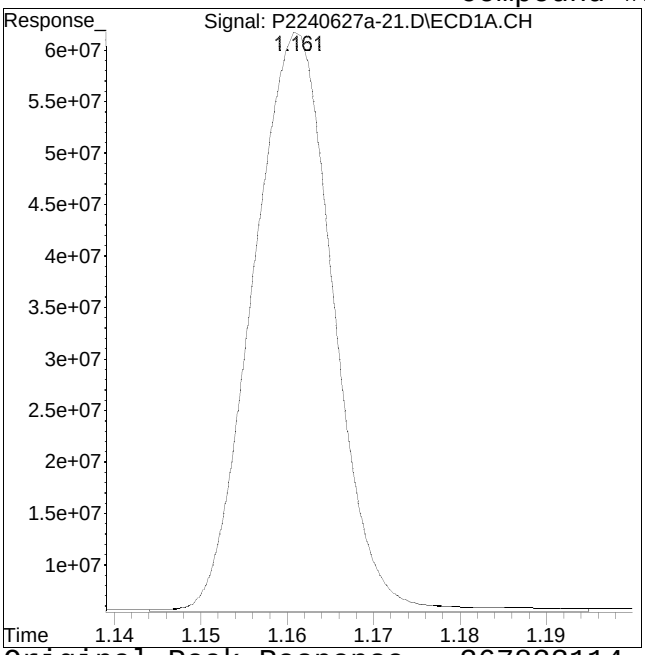
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

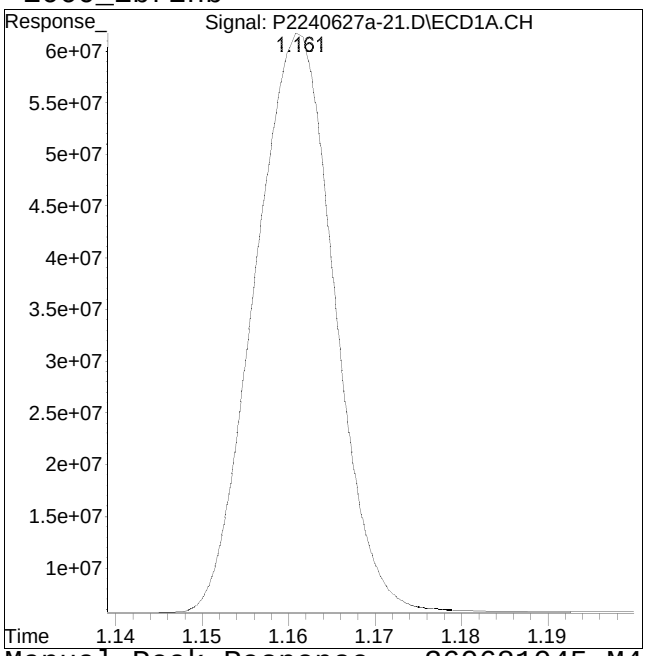


Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240627A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240627a-21.D Operator : pest2:mhg
Date Inj'd : 6/27/2024 11:36 Instrument : Pest 2
Sample : L2434679-10,42,, Quant Date : 6/27/2024 12:23 pm

Compound #1: 1660_1br2nb



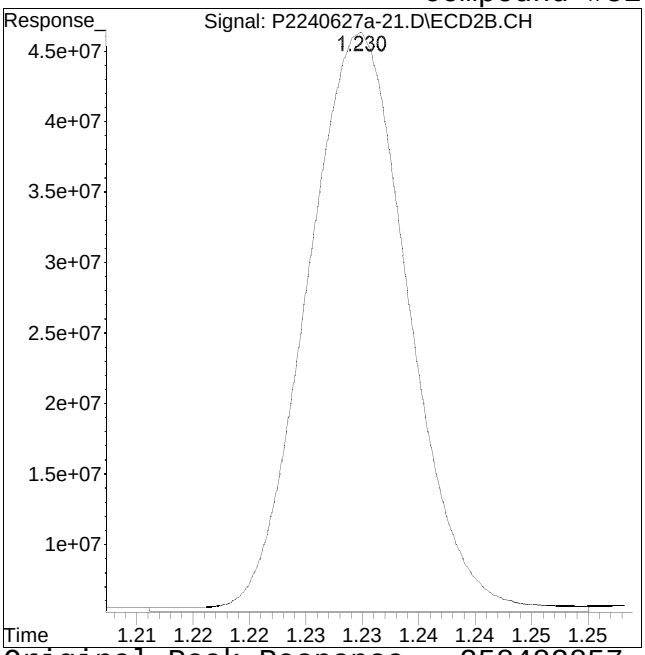


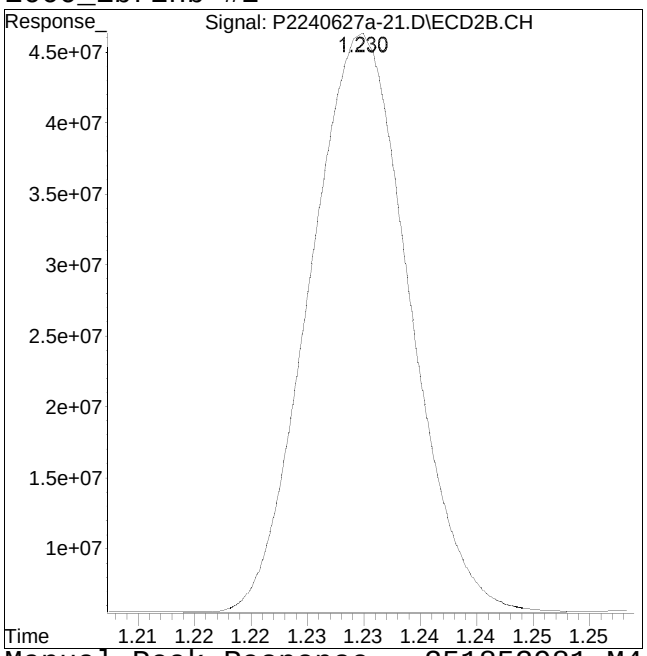
Original Peak Response = 367823114 Manual Peak Response = 360681045 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240627A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240627a-21.D Operator : pest2:mhg
Date Inj'd : 6/27/2024 11:36 Instrument : Pest 2
Sample : L2434679-10,42,, Quant Date : 6/27/2024 12:23 pm

Compound #52: 1660_1br2nb #2





Original Peak Response = 258482857 Manual Peak Response = 251853981 M4
M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240627A\
Data File : P2240627a-22.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 27 Jun 2024 11:45
Operator : pest2:mhg
Sample : L2434679-01,42,,
Misc : WG1940092,WG1939973,ical21102
ALS Vial : 22 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 27 12:23:18 2024
Quant Method : I:\PCB\Pest2\2024\240627A\P2_pcb_05_06_24_LVI_ugL_ICAL21102.m
Quant Title : pcb
QLast Update : Wed May 08 09:27:21 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PCB\Pest2\2024\240627A\P2240627a-02.D
Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Internal Standards							
1) i	1660_1br2nb	1.160	1.229	365.7E6	248.6E6	25.000M4	25.000M4
	Standard Area 1 : #1 = 386975749				Recovery =	94.50%	
	Standard Area 1 : #2 = 277930109				Recovery =	89.43%	
14) i	2154_1br2nb	1.160	1.229	365.7E6	248.6E6	25.000M4	25.000M4
23) i	4268_1br2nb	1.160	1.229	365.7E6	248.6E6	25.000M4	25.000M4
34) i	1248_1br2nb	1.160	1.229	365.7E6	248.6E6	25.000M4	25.000M4
40) i	3262_1br2nb	1.160	1.229	365.7E6	248.6E6	25.000M4	25.000M4
System Monitoring Compounds							
2) s	2,4,5,6-Tetr	1.444	1.602	329.0E6	213.7E6	17.161	17.454
	Spiked Amount 20.000	Range 30 - 150			Recovery =	85.81%	87.27%
3) s	Decachlorobi	4.013	4.524	229.3E6	163.9E6	18.507	28.425
	Spiked Amount 20.000	Range 30 - 150			Recovery =	92.54%	142.13%
Target Compounds							
4) l1	1016-1	0.000	0.000	0	0	N.D. d	N.D. d
5) l1	1016-2	0.000	0.000	0	0	N.D. d	N.D. d
6) l1	1016-3	0.000	0.000	0	0	N.D. d	N.D. d
7) l1	1016-4	0.000	0.000	0	0	N.D. d	N.D. d
8) l1	1016-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1016-1			0	0	N.D.	N.D.
	Average 1016-1					0.000	0.000
9) l2	1260-1	0.000	0.000	0	0	N.D. d	N.D. d
10) l2	1260-2	0.000	0.000	0	0	N.D. d	N.D. d
11) l2	1260-3	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\PCB\Pest2\2024\240627A\
Data File : P2240627a-22.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 27 Jun 2024 11:45
Operator : pest2:mhg
Sample : L2434679-01,42,,
Misc : WG1940092,WG1939973,ical21102
ALS Vial : 22 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 27 12:23:18 2024
Quant Method : I:\PCB\Pest2\2024\240627A\P2_pcb_05_06_24_LVI_ugL_ICAL21102.m
Quant Title : pcb
QLast Update : Wed May 08 09:27:21 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PCB\Pest2\2024\240627A\P2240627a-02.D
Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
12) l2 1260-4	0.000	0.000	0	0	N.D.	N.D.
13) l2 1260-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1260-1			0	0	N.D.	N.D.
Average 1260-1					0.000	0.000
15) l3 1221-2	0.000	0.000	0	0	N.D. d	N.D. d
16) l3 1221-3	0.000	0.000	0	0	N.D. d	N.D. d
17) l3 1221-4	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1221-2			0	0	N.D.	N.D.
Average 1221-2					0.000	0.000
18) l4 1254-1	0.000	0.000	0	0	N.D. d	N.D. d
19) l4 1254-2	0.000	0.000	0	0	N.D. d	N.D. d
20) l4 1254-3	0.000	0.000	0	0	N.D. d	N.D. d
21) l4 1254-4	0.000	0.000	0	0	N.D. d	N.D. d
22) l4 1254-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1254-1			0	0	N.D.	N.D.
Average 1254-1					0.000	0.000
24) l6 1242-1	0.000	0.000	0	0	N.D. d	N.D. d
25) l6 1242-2	0.000	0.000	0	0	N.D. d	N.D. d
26) l6 1242-3	0.000	0.000	0	0	N.D. d	N.D. d
27) l6 1242-4	0.000	0.000	0	0	N.D. d	N.D. d
28) l6 1242-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1242-1			0	0	N.D.	N.D.
Average 1242-1					0.000	0.000
29) l9 1268-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l9 1268-2	0.000	0.000	0	0	N.D. d	N.D. d
31) l9 1268-3	0.000	0.000	0	0	N.D. d	N.D. d
32) l9 1268-4	0.000	0.000	0	0	N.D. d	N.D. d
33) l9 1268-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1268-1			0	0	N.D.	N.D.
Average 1268-1					0.000	0.000
35) l7 1248-1	0.000	0.000	0	0	N.D. d	N.D. d
36) l7 1248-2	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\PCB\Pest2\2024\240627A\
Data File : P2240627a-22.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 27 Jun 2024 11:45
Operator : pest2:mhg
Sample : L2434679-01,42,,
Misc : WG1940092,WG1939973,ical21102
ALS Vial : 22 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 27 12:23:18 2024
Quant Method : I:\PCB\Pest2\2024\240627A\P2_pcb_05_06_24_LVI_ugL_ICAL21102.m
Quant Title : pcb
QLast Update : Wed May 08 09:27:21 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PCB\Pest2\2024\240627A\P2240627a-02.D
Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
37) l7 1248-3	0.000	0.000	0	0	N.D. d	N.D. d
38) l7 1248-4	0.000	0.000	0	0	N.D. d	N.D. d
39) l7 1248-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1248-1			0	0	N.D.	N.D.
Average 1248-1					0.000	0.000
41) l5 1232-1	0.000	0.000	0	0	N.D. d	N.D. d
42) l5 1232-2	0.000	0.000	0	0	N.D. d	N.D. d
43) l5 1232-3	0.000	0.000	0	0	N.D. d	N.D. d
44) l5 1232-4	0.000	0.000	0	0	N.D. d	N.D. d
45) l5 1232-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1232-1			0	0	N.D.	N.D.
Average 1232-1					0.000	0.000
46) l8 1262-1	0.000	0.000	0	0	N.D. d	N.D. d
47) l8 1262-2	0.000	0.000	0	0	N.D. d	N.D. d
48) l8 1262-3	0.000	0.000	0	0	N.D. d	N.D. d
49) l8 1262-4	0.000	0.000	0	0	N.D.	N.D.
50) l8 1262-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1262-1			0	0	N.D.	N.D.
Average 1262-1					0.000	0.000
SemiQuant Compounds - Not Calibrated on this Instrument						
Sum 1262-1			0	0	N.D.	N.D.
Average 1262-1					0.000	0.000

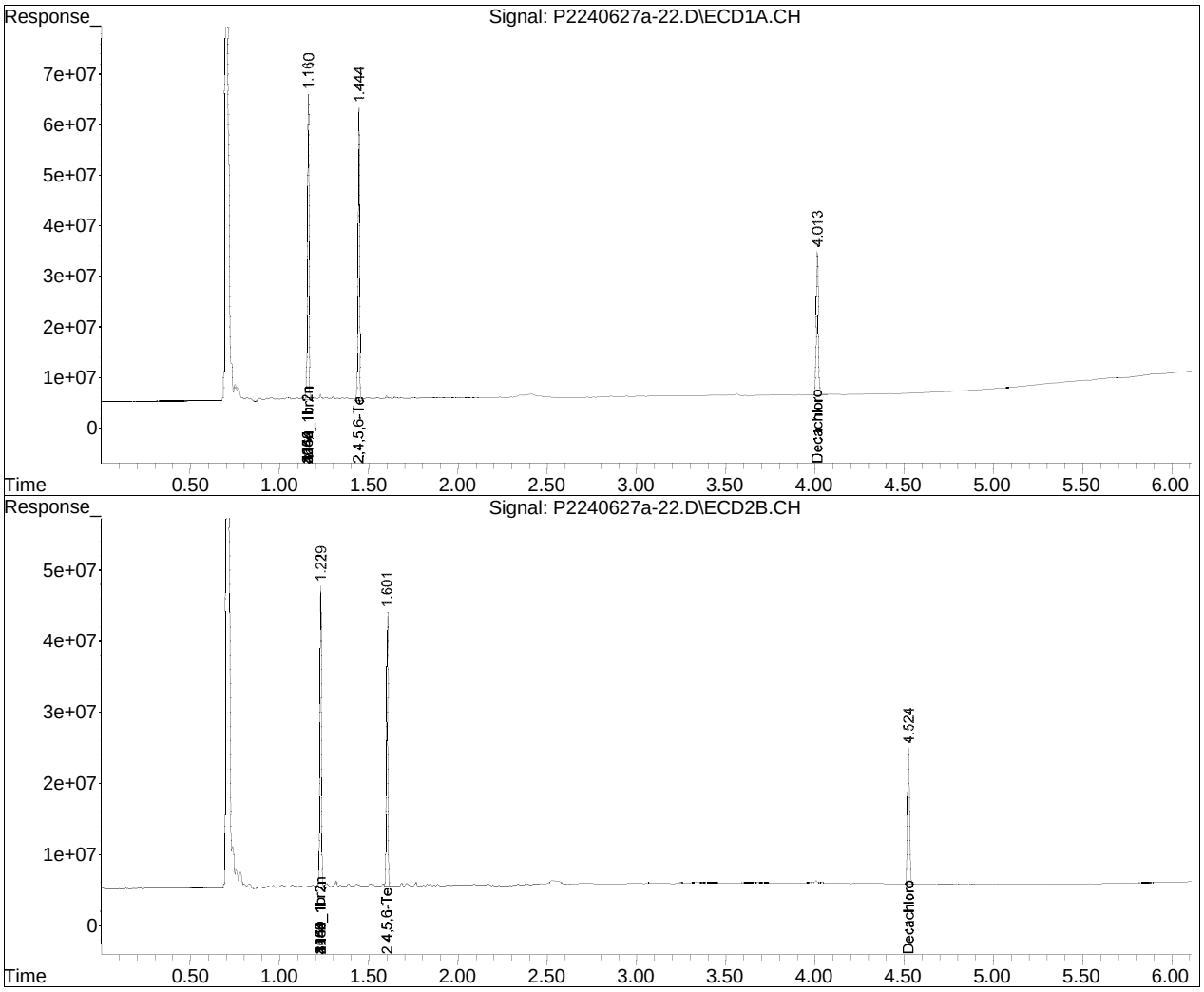
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listedP2240627a-02.D•

Data Path : I:\PCB\Pest2\2024\240627A\
Data File : P2240627a-22.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 27 Jun 2024 11:45
Operator : pest2:mhg
Sample : L2434679-01,42,,
Misc : WG1940092,WG1939973,ical21102
ALS Vial : 22 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 27 12:23:18 2024
Quant Method : I:\PCB\Pest2\2024\240627A\P2_pcb_05_06_24_LVI_ugL_ICAL21102.m
Quant Title : pcb
QLast Update : Wed May 08 09:27:21 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

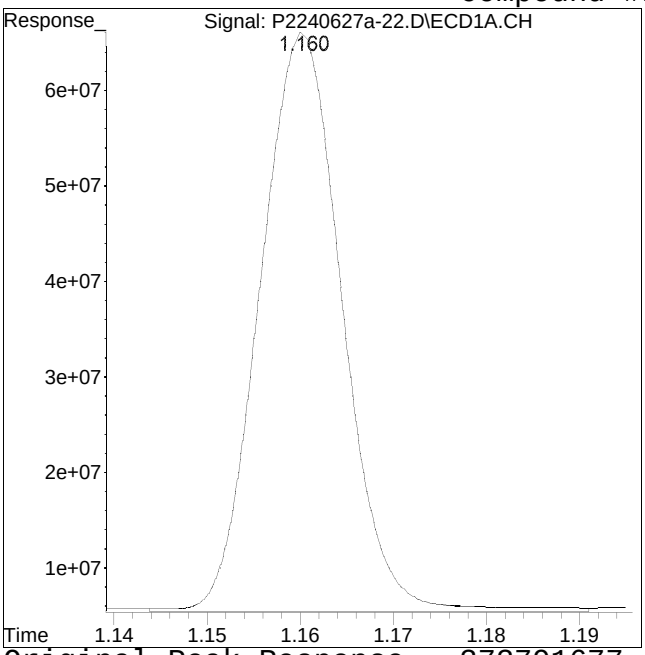
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

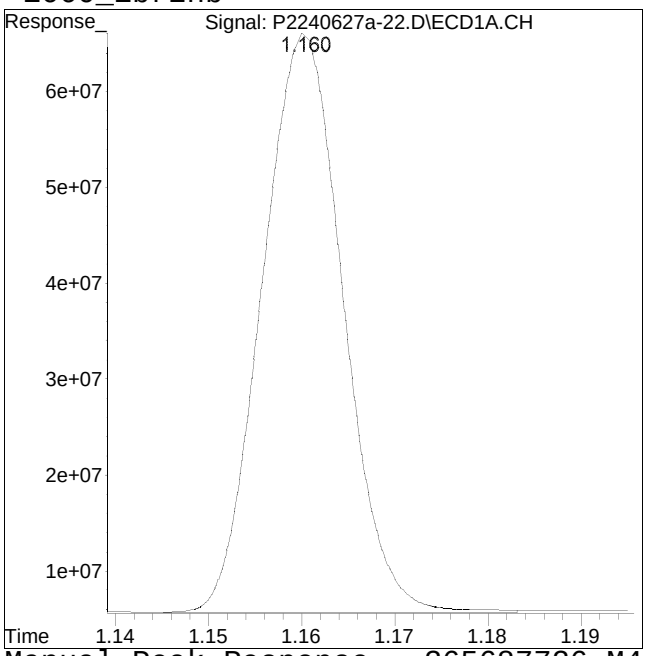


Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240627A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240627a-22.D Operator : pest2:mhg
Date Inj'd : 6/27/2024 11:45 Instrument : Pest 2
Sample : L2434679-01,42,, Quant Date : 6/27/2024 12:23 pm

Compound #1: 1660_1br2nb



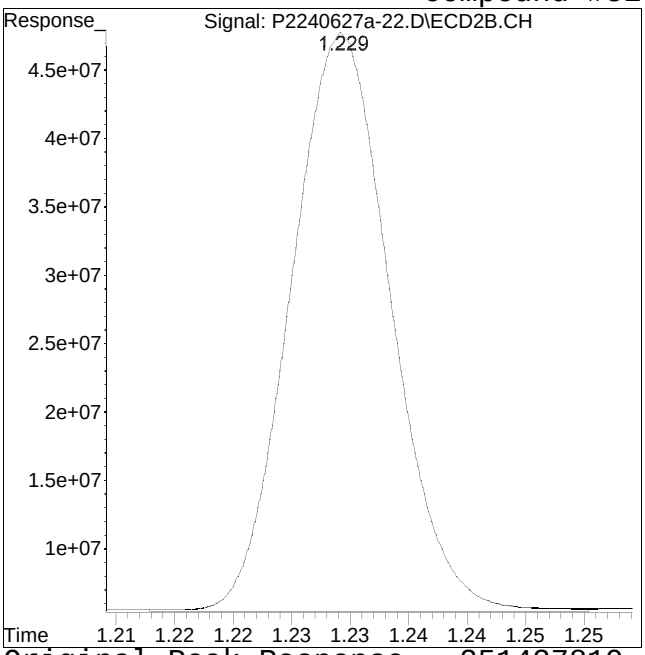


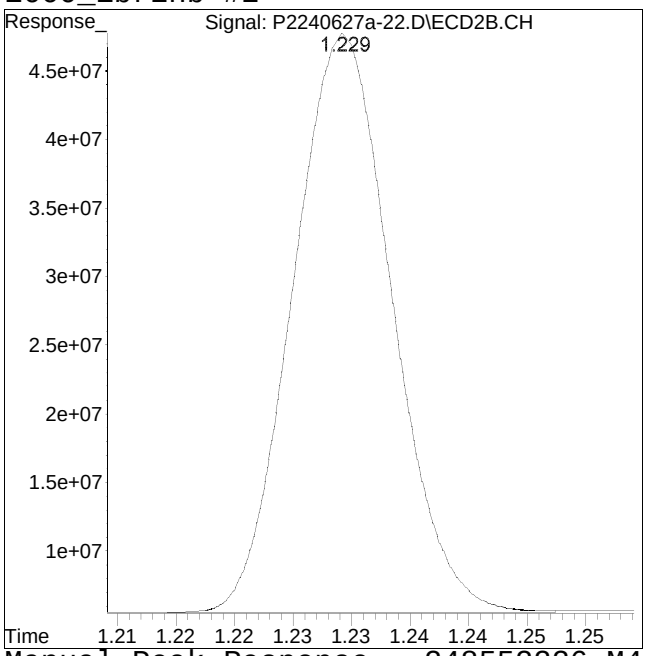
Original Peak Response = 373791677 Manual Peak Response = 365687726 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240627A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240627a-22.D Operator : pest2:mhg
Date Inj'd : 6/27/2024 11:45 Instrument : Pest 2
Sample : L2434679-01,42,, Quant Date : 6/27/2024 12:23 pm

Compound #52: 1660_1br2nb #2





Original Peak Response = 251427819 Manual Peak Response = 248552226 M4
M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240627A\
Data File : P2240627a-23.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 27 Jun 2024 11:54
Operator : pest2:mhg
Sample : L2434679-02,42,,
Misc : WG1940092,WG1939973,ical21102
ALS Vial : 23 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 27 12:23:21 2024
Quant Method : I:\PCB\Pest2\2024\240627A\P2_pcb_05_06_24_LVI_ugL_ICAL21102.m
Quant Title : pcb
QLast Update : Wed May 08 09:27:21 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PCB\Pest2\2024\240627A\P2240627a-02.D
Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Internal Standards							
1) i	1660_1br2nb	1.160	1.229	366.5E6	249.2E6	25.000M4	25.000M4
	Standard Area 1 : #1 = 386975749				Recovery =	94.70%	
	Standard Area 1 : #2 = 277930109				Recovery =	89.67%	
14) i	2154_1br2nb	1.160	1.229	366.5E6	249.2E6	25.000M4	25.000M4
23) i	4268_1br2nb	1.160	1.229	366.5E6	249.2E6	25.000M4	25.000M4
34) i	1248_1br2nb	1.160	1.229	366.5E6	249.2E6	25.000M4	25.000M4
40) i	3262_1br2nb	1.160	1.229	366.5E6	249.2E6	25.000M4	25.000M4
System Monitoring Compounds							
2) s	2,4,5,6-Tetr	1.444	1.602	338.7E6	224.3E6	17.627	18.269
	Spiked Amount 20.000	Range 30 - 150			Recovery =	88.13%	91.34%
3) s	Decachlorobi	4.013	4.523	230.1E6	164.2E6	18.531	28.397
	Spiked Amount 20.000	Range 30 - 150			Recovery =	92.66%	141.98%
Target Compounds							
4) l1	1016-1	0.000	0.000	0	0	N.D. d	N.D. d
5) l1	1016-2	0.000	0.000	0	0	N.D. d	N.D. d
6) l1	1016-3	0.000	0.000	0	0	N.D. d	N.D. d
7) l1	1016-4	0.000	0.000	0	0	N.D. d	N.D. d
8) l1	1016-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1016-1			0	0	N.D.	N.D.
	Average 1016-1					0.000	0.000
9) l2	1260-1	0.000	0.000	0	0	N.D. d	N.D. d
10) l2	1260-2	0.000	0.000	0	0	N.D. d	N.D. d
11) l2	1260-3	0.000	0.000	0	0	N.D.	N.D.

Data Path : I:\PCB\Pest2\2024\240627A\
Data File : P2240627a-23.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 27 Jun 2024 11:54
Operator : pest2:mhg
Sample : L2434679-02,42,,
Misc : WG1940092,WG1939973,ical21102
ALS Vial : 23 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 27 12:23:21 2024
Quant Method : I:\PCB\Pest2\2024\240627A\P2_pcb_05_06_24_LVI_ugL_ICAL21102.m
Quant Title : pcb
QLast Update : Wed May 08 09:27:21 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PCB\Pest2\2024\240627A\P2240627a-02.D
Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
12) l2 1260-4	0.000	0.000	0	0	N.D.	N.D.
13) l2 1260-5	0.000	0.000	0	0	N.D.	N.D.
Sum 1260-1			0	0	N.D.	N.D.
Average 1260-1					0.000	0.000
15) l3 1221-2	0.000	0.000	0	0	N.D. d	N.D. d
16) l3 1221-3	0.000	0.000	0	0	N.D. d	N.D. d
17) l3 1221-4	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1221-2			0	0	N.D.	N.D.
Average 1221-2					0.000	0.000
18) l4 1254-1	0.000	0.000	0	0	N.D. d	N.D. d
19) l4 1254-2	0.000	0.000	0	0	N.D. d	N.D. d
20) l4 1254-3	0.000	0.000	0	0	N.D.	N.D.
21) l4 1254-4	0.000	0.000	0	0	N.D. d	N.D. d
22) l4 1254-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1254-1			0	0	N.D.	N.D.
Average 1254-1					0.000	0.000
24) l6 1242-1	0.000	0.000	0	0	N.D. d	N.D. d
25) l6 1242-2	0.000	0.000	0	0	N.D. d	N.D. d
26) l6 1242-3	0.000	0.000	0	0	N.D. d	N.D. d
27) l6 1242-4	0.000	0.000	0	0	N.D. d	N.D. d
28) l6 1242-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1242-1			0	0	N.D.	N.D.
Average 1242-1					0.000	0.000
29) l9 1268-1	0.000	0.000	0	0	N.D.	N.D.
30) l9 1268-2	0.000	0.000	0	0	N.D.	N.D.
31) l9 1268-3	0.000	0.000	0	0	N.D.	N.D.
32) l9 1268-4	0.000	0.000	0	0	N.D.	N.D.
33) l9 1268-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1268-1			0	0	N.D.	N.D.
Average 1268-1					0.000	0.000
35) l7 1248-1	0.000	0.000	0	0	N.D. d	N.D. d
36) l7 1248-2	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\PCB\Pest2\2024\240627A\
Data File : P2240627a-23.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 27 Jun 2024 11:54
Operator : pest2:mhg
Sample : L2434679-02,42,,
Misc : WG1940092,WG1939973,ical21102
ALS Vial : 23 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 27 12:23:21 2024
Quant Method : I:\PCB\Pest2\2024\240627A\P2_pcb_05_06_24_LVI_ugL_ICAL21102.m
Quant Title : pcb
QLast Update : Wed May 08 09:27:21 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PCB\Pest2\2024\240627A\P2240627a-02.D
Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
37) l7 1248-3	0.000	0.000	0	0	N.D. d	N.D. d
38) l7 1248-4	0.000	0.000	0	0	N.D. d	N.D. d
39) l7 1248-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1248-1			0	0	N.D.	N.D.
Average 1248-1					0.000	0.000
41) l5 1232-1	0.000	0.000	0	0	N.D. d	N.D. d
42) l5 1232-2	0.000	0.000	0	0	N.D. d	N.D. d
43) l5 1232-3	0.000	0.000	0	0	N.D. d	N.D. d
44) l5 1232-4	0.000	0.000	0	0	N.D. d	N.D. d
45) l5 1232-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1232-1			0	0	N.D.	N.D.
Average 1232-1					0.000	0.000
46) l8 1262-1	0.000	0.000	0	0	N.D. d	N.D. d
47) l8 1262-2	0.000	0.000	0	0	N.D. d	N.D. d
48) l8 1262-3	0.000	0.000	0	0	N.D.	N.D.
49) l8 1262-4	0.000	0.000	0	0	N.D.	N.D.
50) l8 1262-5	0.000	0.000	0	0	N.D.	N.D.
Sum 1262-1			0	0	N.D.	N.D.
Average 1262-1					0.000	0.000
SemiQuant Compounds - Not Calibrated on this Instrument						
Sum 1262-1			0	0	N.D.	N.D.
Average 1262-1					0.000	0.000

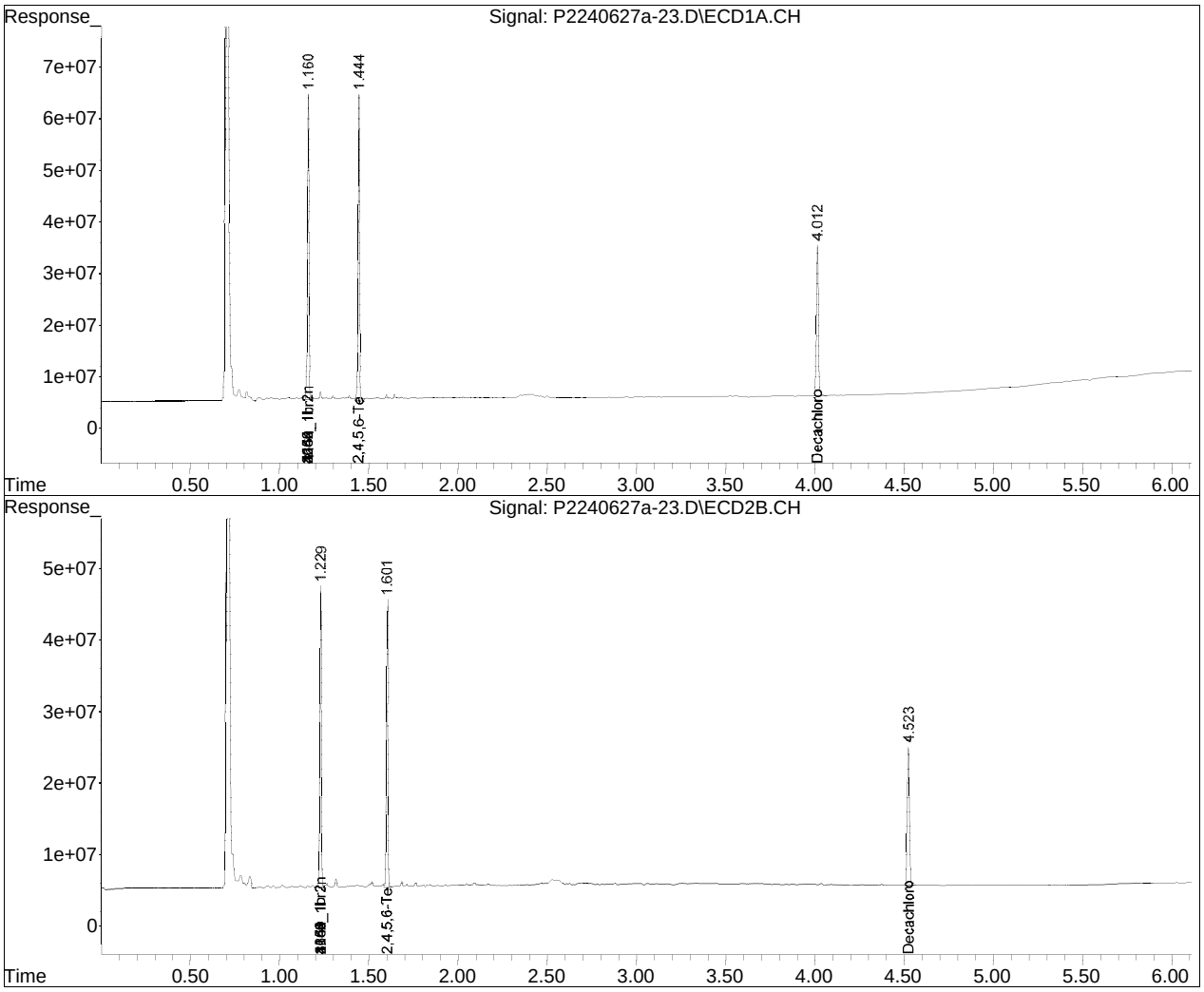
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listedP2240627a-02.D•

Data Path : I:\PCB\Pest2\2024\240627A\
Data File : P2240627a-23.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 27 Jun 2024 11:54
Operator : pest2:mhg
Sample : L2434679-02,42,,
Misc : WG1940092,WG1939973,ical21102
ALS Vial : 23 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 27 12:23:21 2024
Quant Method : I:\PCB\Pest2\2024\240627A\P2_pcb_05_06_24_LVI_ugL_ICAL21102.m
Quant Title : pcb
QLast Update : Wed May 08 09:27:21 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

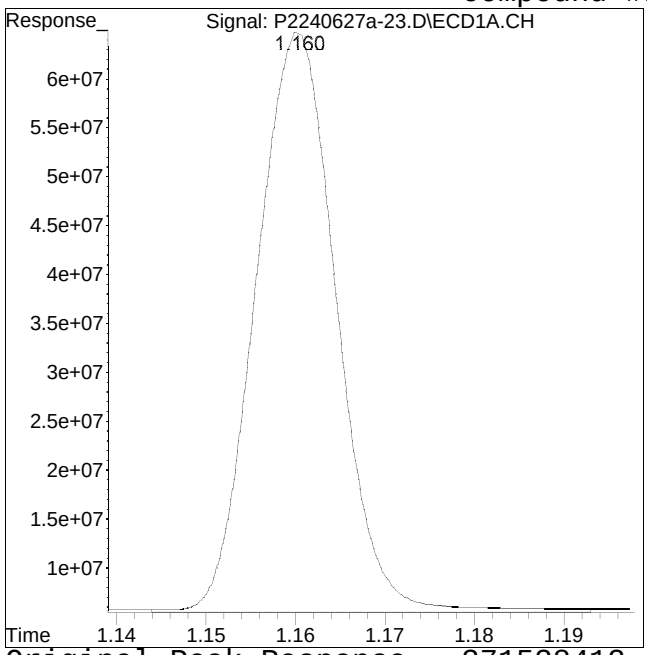
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

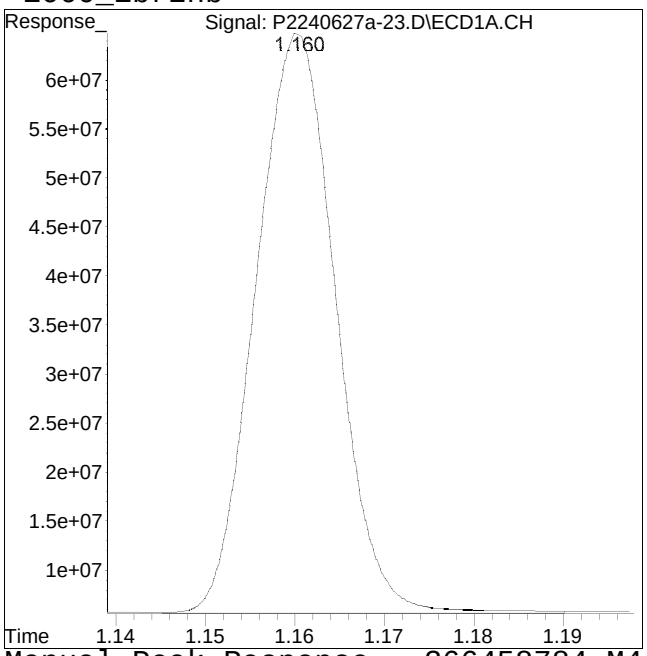


Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240627A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240627a-23.D Operator : pest2:mhg
Date Inj'd : 6/27/2024 11:54 Instrument : Pest 2
Sample : L2434679-02,42,, Quant Date : 6/27/2024 12:23 pm

Compound #1: 1660_1br2nb



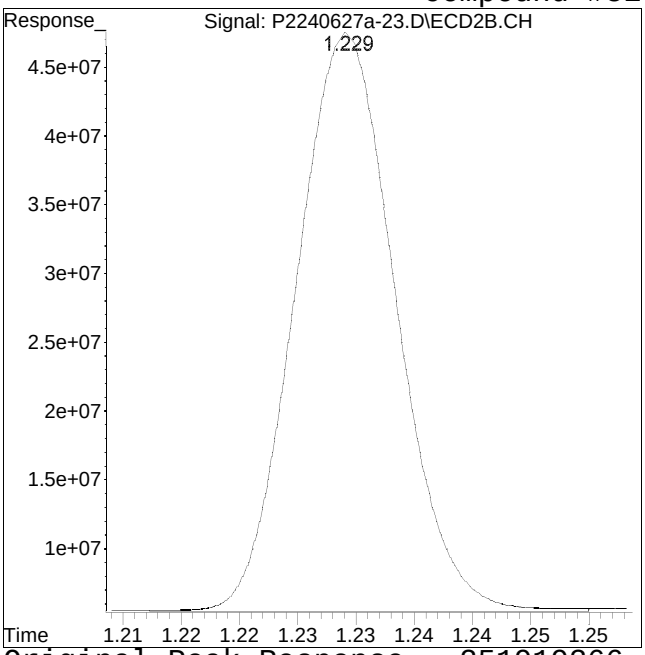


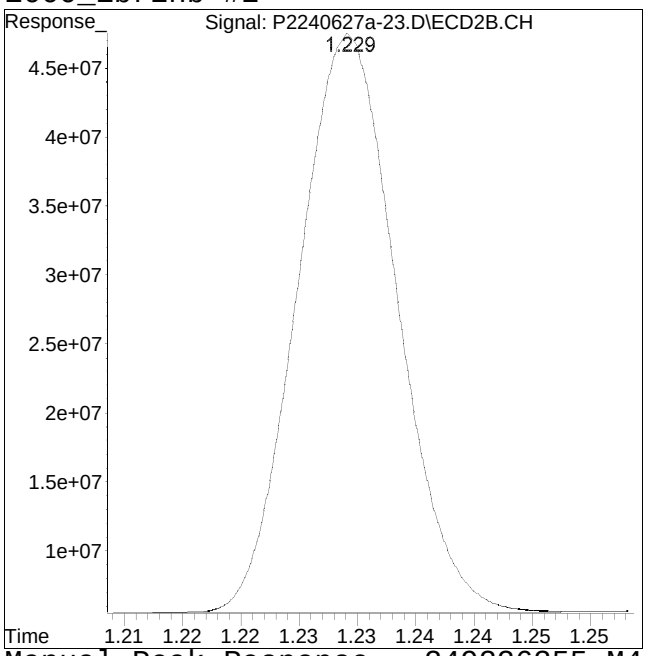
Original Peak Response = 371538412 Manual Peak Response = 366458784 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240627A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240627a-23.D Operator : pest2:mhg
Date Inj'd : 6/27/2024 11:54 Instrument : Pest 2
Sample : L2434679-02,42,, Quant Date : 6/27/2024 12:23 pm

Compound #52: 1660_1br2nb #2





Original Peak Response = 251919366 Manual Peak Response = 249226355 M4
M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240627A\
Data File : P2240627a-24.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 27 Jun 2024 12:02
Operator : pest2:mhg
Sample : L2434679-03,42,, p
Misc : WG1940092,WG1939973,ical21102
ALS Vial : 24 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 27 12:23:24 2024
Quant Method : I:\PCB\Pest2\2024\240627A\P2_pcb_05_06_24_LVI_ugL_ICAL21102.m
Quant Title : pcb
QLast Update : Wed May 08 09:27:21 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PCB\Pest2\2024\240627A\P2240627a-02.D
Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Internal Standards							
1) i	1660_1br2nb	1.160	1.229	368.1E6	253.1E6	25.000	25.000
	Standard Area 1 : #1 = 386975749				Recovery =	95.13%	
	Standard Area 1 : #2 = 277930109				Recovery =	91.08%	
14) i	2154_1br2nb	1.160	1.229	368.1E6	253.1E6	25.000	25.000
23) i	4268_1br2nb	1.160	1.229	368.1E6	253.1E6	25.000	25.000
34) i	1248_1br2nb	1.160	1.229	368.1E6	253.1E6	25.000	25.000
40) i	3262_1br2nb	1.160	1.229	368.1E6	253.1E6	25.000	25.000
System Monitoring Compounds							
2) s	2,4,5,6-Tetr	1.444	1.602	341.9E6	223.6E6	17.714	17.932
	Spiked Amount 20.000	Range 30 - 150			Recovery =	88.57%	89.66%
3) s	Decachlorobi	4.013	4.524	245.1E6	176.5E6	19.655M4	30.046M3
	Spiked Amount 20.000	Range 30 - 150			Recovery =	98.28%	150.23%#
Target Compounds							
4) l1	1016-1	0.000	0.000	0	0	N.D. d	N.D. d
5) l1	1016-2	0.000	0.000	0	0	N.D. d	N.D. d
6) l1	1016-3	0.000	0.000	0	0	N.D. d	N.D. d
7) l1	1016-4	0.000	0.000	0	0	N.D. d	N.D. d
8) l1	1016-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1016-1			0	0	N.D.	N.D.
	Average 1016-1					0.000	0.000
9) l2	1260-1	0.000	0.000	0	0	N.D.	N.D.
10) l2	1260-2	0.000	0.000	0	0	N.D.	N.D.
11) l2	1260-3	0.000	0.000	0	0	N.D. d	N.D. d
12) l2	1260-4	0.000	0.000	0	0	N.D. d	N.D. d
13) l2	1260-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1260-1			0	0	N.D.	N.D.
	Average 1260-1					0.000	0.000

Data Path : I:\PCB\Pest2\2024\240627A\
Data File : P2240627a-24.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 27 Jun 2024 12:02
Operator : pest2:mhg
Sample : L2434679-03,42,, p
Misc : WG1940092,WG1939973,ical21102
ALS Vial : 24 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 27 12:23:24 2024
Quant Method : I:\PCB\Pest2\2024\240627A\P2_pcb_05_06_24_LVI_ugL_ICAL21102.m
Quant Title : pcb
QLast Update : Wed May 08 09:27:21 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PCB\Pest2\2024\240627A\P2240627a-02.D
Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
15) l3 1221-2	0.000	0.000	0	0	N.D. d	N.D. d
16) l3 1221-3	0.000	0.000	0	0	N.D. d	N.D. d
17) l3 1221-4	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1221-2			0	0	N.D.	N.D.
Average 1221-2					0.000	0.000
18) l4 1254-1	0.000	0.000	0	0	N.D. d	N.D. d
19) l4 1254-2	0.000	0.000	0	0	N.D. d	N.D. d
20) l4 1254-3	0.000	0.000	0	0	N.D.	N.D.
21) l4 1254-4	0.000	0.000	0	0	N.D. d	N.D. d
22) l4 1254-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1254-1			0	0	N.D.	N.D.
Average 1254-1					0.000	0.000
24) l6 1242-1	0.000	0.000	0	0	N.D. d	N.D. d
25) l6 1242-2	0.000	0.000	0	0	N.D. d	N.D. d
26) l6 1242-3	0.000	0.000	0	0	N.D. d	N.D. d
27) l6 1242-4	0.000	0.000	0	0	N.D. d	N.D. d
28) l6 1242-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1242-1			0	0	N.D.	N.D.
Average 1242-1					0.000	0.000
29) l9 1268-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l9 1268-2	0.000	0.000	0	0	N.D. d	N.D. d
31) l9 1268-3	0.000	0.000	0	0	N.D. d	N.D. d
32) l9 1268-4	0.000	0.000	0	0	N.D. d	N.D. d
33) l9 1268-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1268-1			0	0	N.D.	N.D.
Average 1268-1					0.000	0.000
35) l7 1248-1	0.000	0.000	0	0	N.D. d	N.D. d
36) l7 1248-2	0.000	0.000	0	0	N.D. d	N.D. d
37) l7 1248-3	0.000	0.000	0	0	N.D. d	N.D. d
38) l7 1248-4	0.000	0.000	0	0	N.D. d	N.D. d
39) l7 1248-5	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240627A\
Data File : P2240627a-24.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 27 Jun 2024 12:02
Operator : pest2:mhg
Sample : L2434679-03,42,, p
Misc : WG1940092,WG1939973,ical21102
ALS Vial : 24 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 27 12:23:24 2024
Quant Method : I:\PCB\Pest2\2024\240627A\P2_pcb_05_06_24_LVI_ugL_ICAL21102.m
Quant Title : pcb
QLast Update : Wed May 08 09:27:21 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PCB\Pest2\2024\240627A\P2240627a-02.D
Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Sum 1248-1			0	0	N.D.	N.D.
Average 1248-1					0.000	0.000
41) l5 1232-1	0.000	0.000	0	0	N.D. d	N.D. d
42) l5 1232-2	0.000	0.000	0	0	N.D. d	N.D. d
43) l5 1232-3	0.000	0.000	0	0	N.D. d	N.D. d
44) l5 1232-4	0.000	0.000	0	0	N.D. d	N.D. d
45) l5 1232-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1232-1			0	0	N.D.	N.D.
Average 1232-1					0.000	0.000
46) l8 1262-1	0.000	0.000	0	0	N.D.	N.D.
47) l8 1262-2	0.000	0.000	0	0	N.D. d	N.D. d
48) l8 1262-3	0.000	0.000	0	0	N.D. d	N.D. d
49) l8 1262-4	0.000	0.000	0	0	N.D. d	N.D. d
50) l8 1262-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1262-1			0	0	N.D.	N.D.
Average 1262-1					0.000	0.000
SemiQuant Compounds - Not Calibrated on this Instrument						
Sum 1262-1			0	0	N.D.	N.D.
Average 1262-1					0.000	0.000

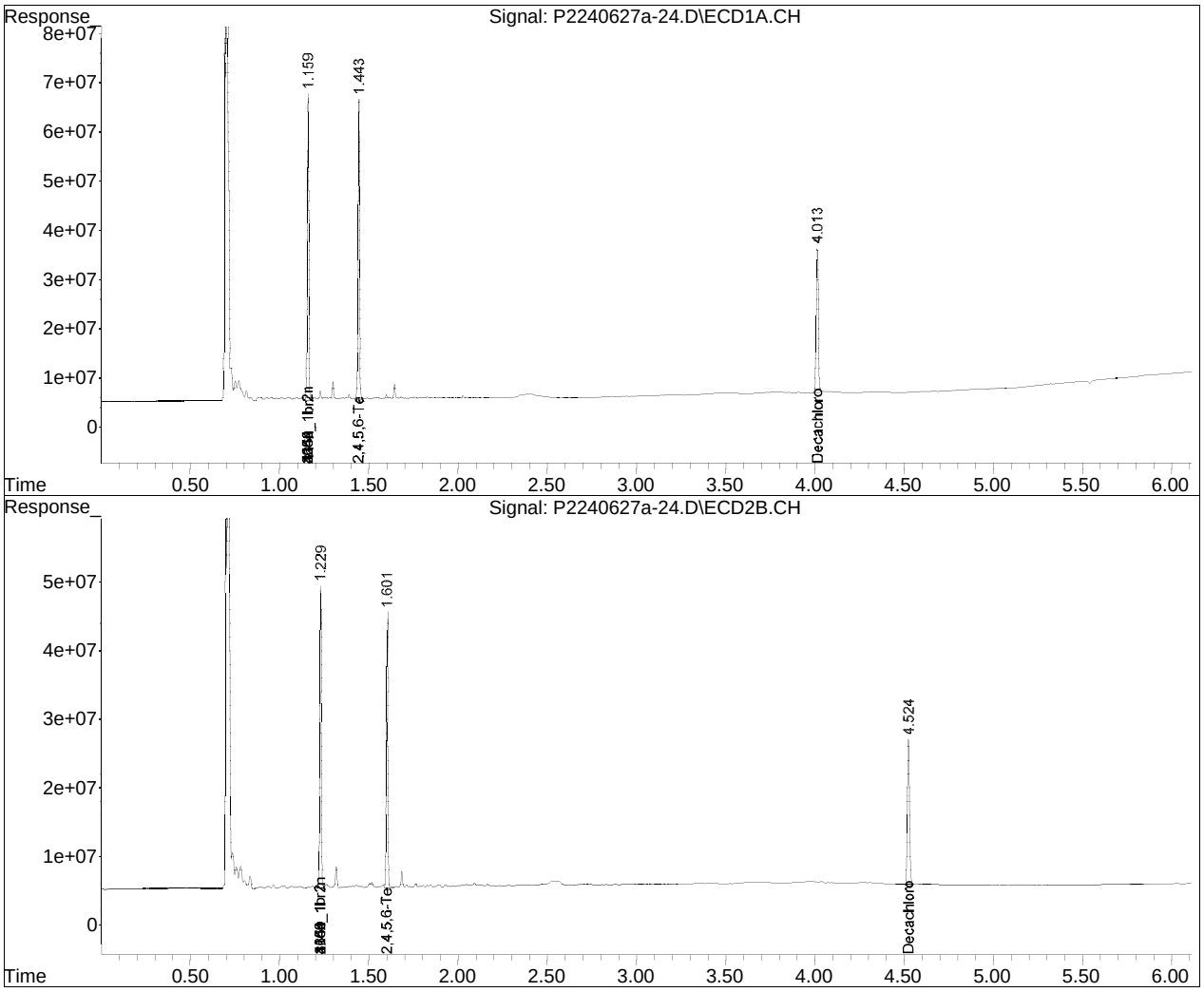
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.

Sub List : Default - All compounds listedP2240627a-02.D•

Data Path : I:\PCB\Pest2\2024\240627A\
Data File : P2240627a-24.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 27 Jun 2024 12:02
Operator : pest2:mhg
Sample : L2434679-03,42,, p
Misc : WG1940092,WG1939973,ical21102
ALS Vial : 24 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 27 12:23:24 2024
Quant Method : I:\PCB\Pest2\2024\240627A\P2_pcb_05_06_24_LVI_ugL_ICAL21102.m
Quant Title : pcb
QLast Update : Wed May 08 09:27:21 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

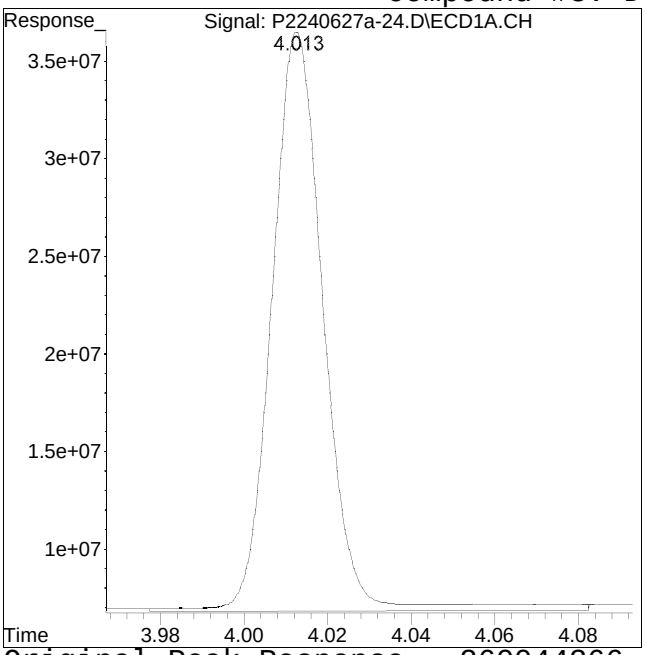
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

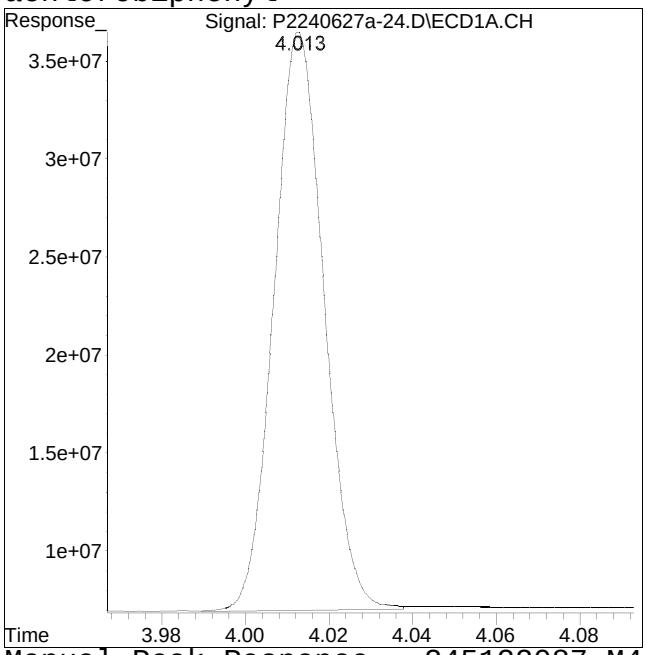


Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240627A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240627a-24.D Operator : pest2:mhg
Date Inj'd : 6/27/2024 12:02 Instrument : Pest 2
Sample : L2434679-03,42,, p Quant Date : 6/27/2024 12:23 pm

Compound #3: Decachlorobiphenyl



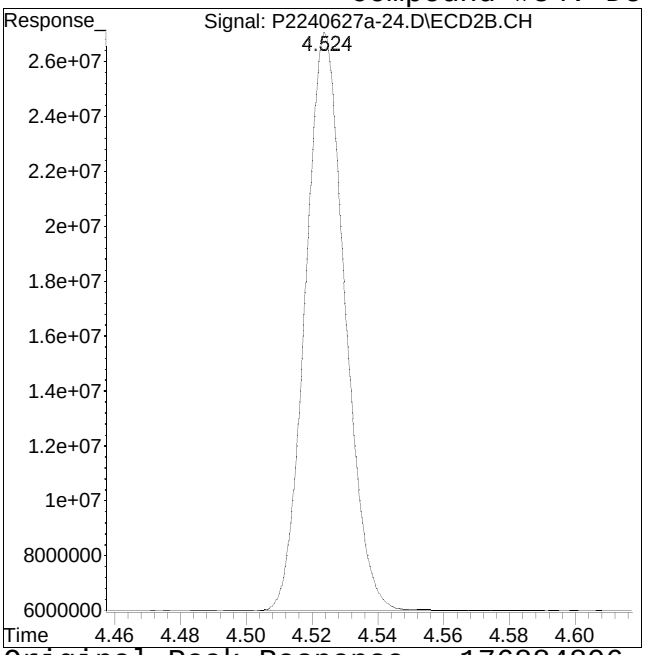


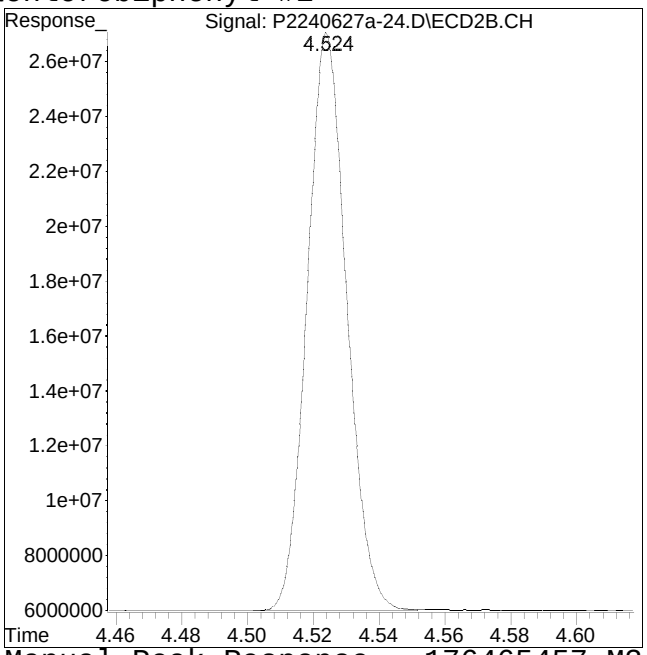
Original Peak Response = 260044366 Manual Peak Response = 245122087 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240627A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240627a-24.D Operator : pest2:mhg
Date Inj'd : 6/27/2024 12:02 Instrument : Pest 2
Sample : L2434679-03,42,, p Quant Date : 6/27/2024 12:23 pm

Compound #54: Decachlorobiphenyl #2





Original Peak Response = 176884806 Manual Peak Response = 176465457 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240627A\
Data File : P2240627a-27.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 27 Jun 2024 12:29
Operator : pest2:mhg
Sample : L2434679-04,42,,
Misc : WG1940092,WG1939973,ical21102
ALS Vial : 27 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 27 12:39:40 2024
Quant Method : I:\PCB\Pest2\2024\240627A\P2_pcb_05_06_24_LVI_ugL_ICAL21102.m
Quant Title : pcb
QLast Update : Wed May 08 09:27:21 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PCB\Pest2\2024\240627A\P2240627a-02.D
Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Internal Standards							
1) i	1660_1br2nb	1.160	1.229	374.8E6	258.6E6	25.000M4	25.000M4
	Standard Area 1 : #1 = 386975749				Recovery =	96.86%	
	Standard Area 1 : #2 = 277930109				Recovery =	93.03%	
14) i	2154_1br2nb	1.160	1.229	374.8E6	258.6E6	25.000M4	25.000M4
23) i	4268_1br2nb	1.160	1.229	374.8E6	258.6E6	25.000M4	25.000M4
34) i	1248_1br2nb	1.160	1.229	374.8E6	258.6E6	25.000M4	25.000M4
40) i	3262_1br2nb	1.160	1.229	374.8E6	258.6E6	25.000M4	25.000M4
System Monitoring Compounds							
2) s	2,4,5,6-Tetr	1.444	1.602	352.0E6	230.5E6	17.908M4	18.092M3
	Spiked Amount 20.000	Range 30 - 150			Recovery =	89.54%	90.46%
3) s	Decachlorobi	4.015	4.525	244.3E6	176.2E6	19.234	29.366
	Spiked Amount 20.000	Range 30 - 150			Recovery =	96.17%	146.83%
Target Compounds							
4) l1	1016-1	0.000	0.000	0	0	N.D. d	N.D. d
5) l1	1016-2	0.000	0.000	0	0	N.D. d	N.D. d
6) l1	1016-3	0.000	0.000	0	0	N.D. d	N.D. d
7) l1	1016-4	0.000	0.000	0	0	N.D. d	N.D. d
8) l1	1016-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1016-1			0	0	N.D.	N.D.
Average	1016-1					0.000	0.000
9) l2	1260-1	0.000	0.000	0	0	N.D. d	N.D. d
10) l2	1260-2	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\PCB\Pest2\2024\240627A\
Data File : P2240627a-27.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 27 Jun 2024 12:29
Operator : pest2:mhg
Sample : L2434679-04,42,,
Misc : WG1940092,WG1939973,ical21102
ALS Vial : 27 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 27 12:39:40 2024
Quant Method : I:\PCB\Pest2\2024\240627A\P2_pcb_05_06_24_LVI_ugL_ICAL21102.m
Quant Title : pcb
QLast Update : Wed May 08 09:27:21 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PCB\Pest2\2024\240627A\P2240627a-02.D
Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
11) l2 1260-3	0.000	0.000	0	0	N.D. d	N.D. d
12) l2 1260-4	0.000	0.000	0	0	N.D. d	N.D. d
13) l2 1260-5	0.000	0.000	0	0	N.D.	N.D.
Sum 1260-1			0	0	N.D.	N.D.
Average 1260-1					0.000	0.000
15) l3 1221-2	0.000	0.000	0	0	N.D. d	N.D. d
16) l3 1221-3	0.000	0.000	0	0	N.D. d	N.D. d
17) l3 1221-4	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1221-2			0	0	N.D.	N.D.
Average 1221-2					0.000	0.000
18) l4 1254-1	0.000	0.000	0	0	N.D. d	N.D. d
19) l4 1254-2	0.000	0.000	0	0	N.D. d	N.D. d
20) l4 1254-3	0.000	0.000	0	0	N.D.	N.D.
21) l4 1254-4	0.000	0.000	0	0	N.D. d	N.D. d
22) l4 1254-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1254-1			0	0	N.D.	N.D.
Average 1254-1					0.000	0.000
24) l6 1242-1	0.000	0.000	0	0	N.D. d	N.D. d
25) l6 1242-2	0.000	0.000	0	0	N.D. d	N.D. d
26) l6 1242-3	0.000	0.000	0	0	N.D. d	N.D. d
27) l6 1242-4	0.000	0.000	0	0	N.D. d	N.D. d
28) l6 1242-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1242-1			0	0	N.D.	N.D.
Average 1242-1					0.000	0.000
29) l9 1268-1	0.000	0.000	0	0	N.D.	N.D.
30) l9 1268-2	0.000	0.000	0	0	N.D.	N.D.
31) l9 1268-3	0.000	0.000	0	0	N.D.	N.D.
32) l9 1268-4	0.000	0.000	0	0	N.D. d	N.D. d
33) l9 1268-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1268-1			0	0	N.D.	N.D.
Average 1268-1					0.000	0.000
35) l7 1248-1	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\PCB\Pest2\2024\240627A\
Data File : P2240627a-27.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 27 Jun 2024 12:29
Operator : pest2:mhg
Sample : L2434679-04,42,,
Misc : WG1940092,WG1939973,ical21102
ALS Vial : 27 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 27 12:39:40 2024
Quant Method : I:\PCB\Pest2\2024\240627A\P2_pcb_05_06_24_LVI_ugL_ICAL21102.m
Quant Title : pcb
QLast Update : Wed May 08 09:27:21 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PCB\Pest2\2024\240627A\P2240627a-02.D
Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
36) l7 1248-2	0.000	0.000	0	0	N.D. d	N.D. d
37) l7 1248-3	0.000	0.000	0	0	N.D. d	N.D. d
38) l7 1248-4	0.000	0.000	0	0	N.D. d	N.D. d
39) l7 1248-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1248-1			0	0	N.D.	N.D.
Average 1248-1					0.000	0.000
41) l5 1232-1	0.000	0.000	0	0	N.D. d	N.D. d
42) l5 1232-2	0.000	0.000	0	0	N.D. d	N.D. d
43) l5 1232-3	0.000	0.000	0	0	N.D. d	N.D. d
44) l5 1232-4	0.000	0.000	0	0	N.D. d	N.D. d
45) l5 1232-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1232-1			0	0	N.D.	N.D.
Average 1232-1					0.000	0.000
46) l8 1262-1	0.000	0.000	0	0	N.D. d	N.D. d
47) l8 1262-2	0.000	0.000	0	0	N.D. d	N.D. d
48) l8 1262-3	0.000	0.000	0	0	N.D. d	N.D. d
49) l8 1262-4	0.000	0.000	0	0	N.D. d	N.D. d
50) l8 1262-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1262-1			0	0	N.D.	N.D.
Average 1262-1					0.000	0.000
SemiQuant Compounds - Not Calibrated on this Instrument						
Sum 1262-1			0	0	N.D.	N.D.
Average 1262-1					0.000	0.000

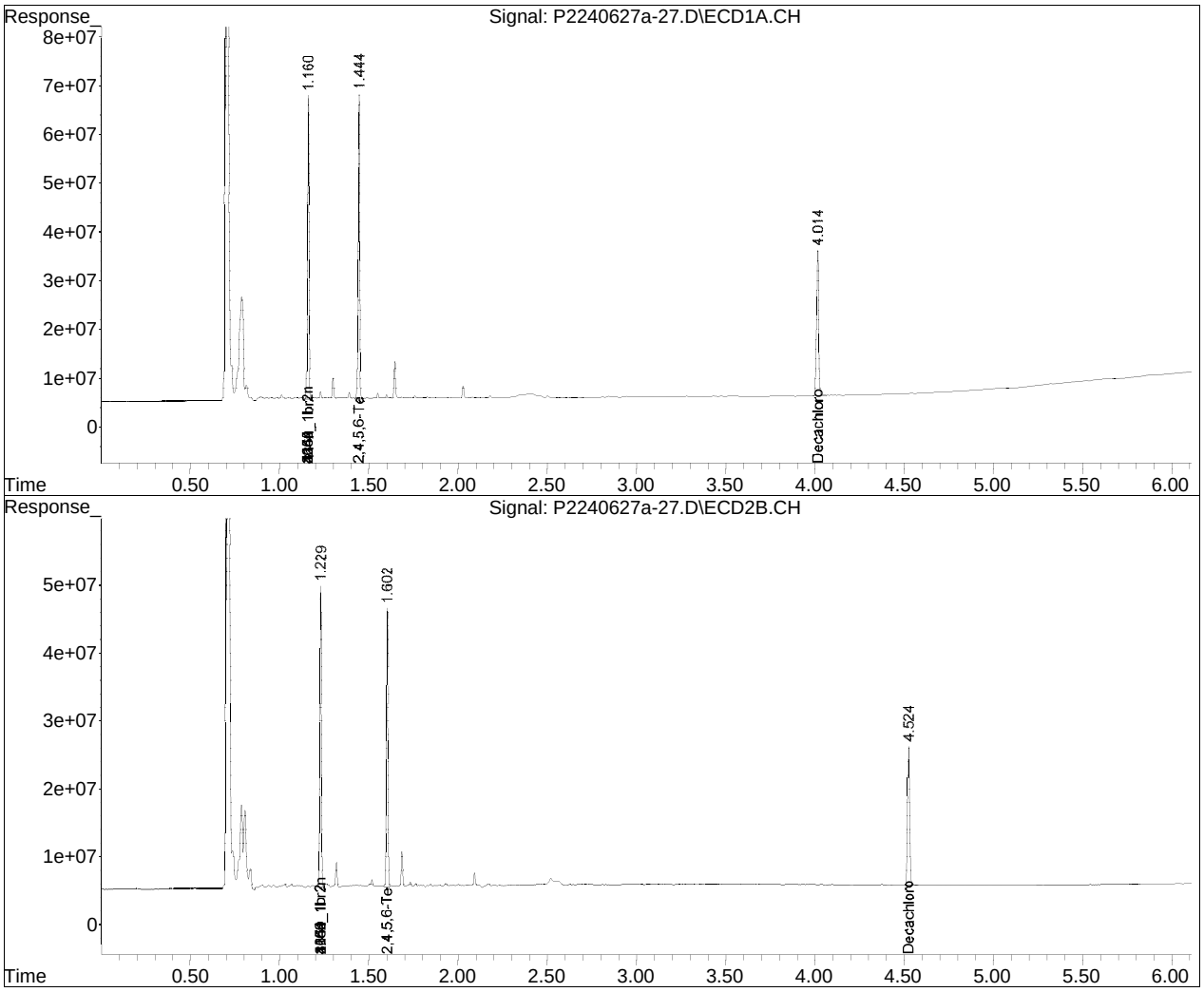
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listedP2240627a-02.D•

Data Path : I:\PCB\Pest2\2024\240627A\
Data File : P2240627a-27.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 27 Jun 2024 12:29
Operator : pest2:mhg
Sample : L2434679-04,42,,
Misc : WG1940092,WG1939973,ical21102
ALS Vial : 27 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 27 12:39:40 2024
Quant Method : I:\PCB\Pest2\2024\240627A\P2_pcb_05_06_24_LVI_ugL_ICAL21102.m
Quant Title : pcb
QLast Update : Wed May 08 09:27:21 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

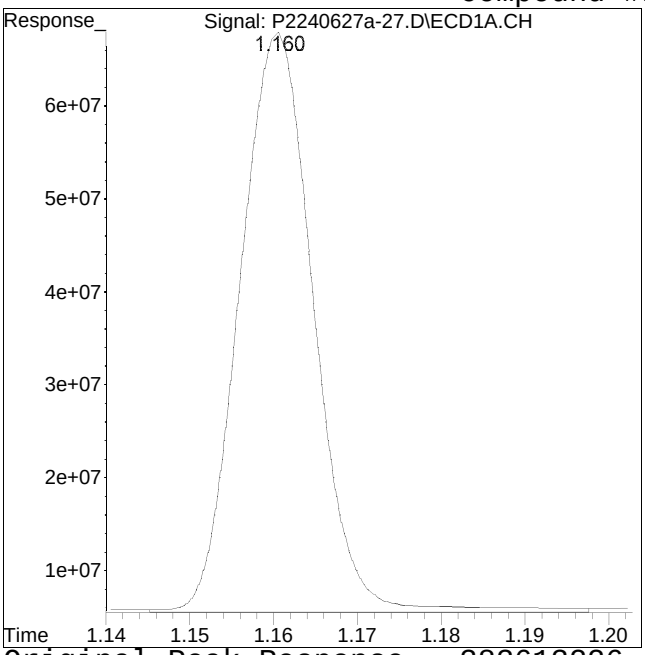
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

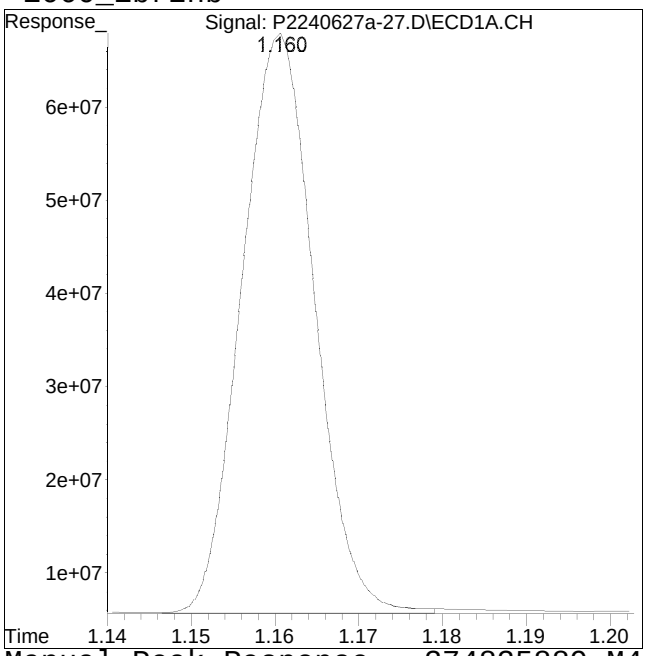


Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240627A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240627a-27.D Operator : pest2:mhg
Date Inj'd : 6/27/2024 12:29 Instrument : Pest 2
Sample : L2434679-04,42,, Quant Date : 6/27/2024 12:39 pm

Compound #1: 1660_1br2nb



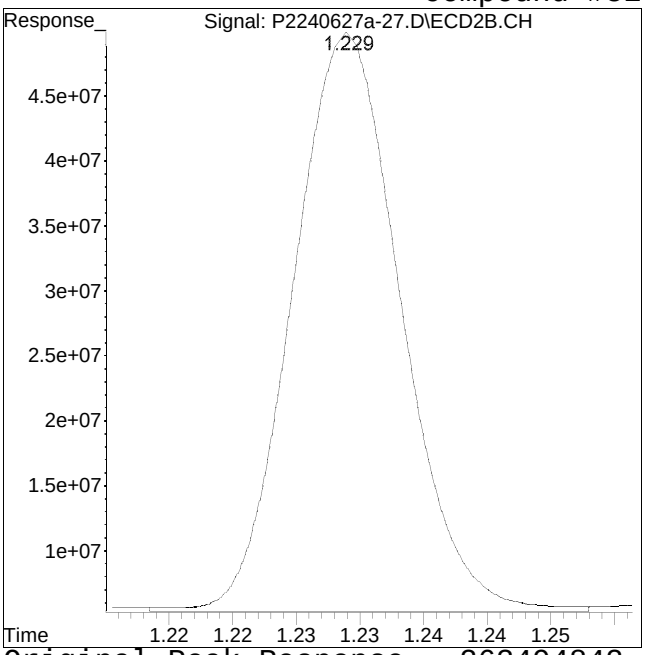


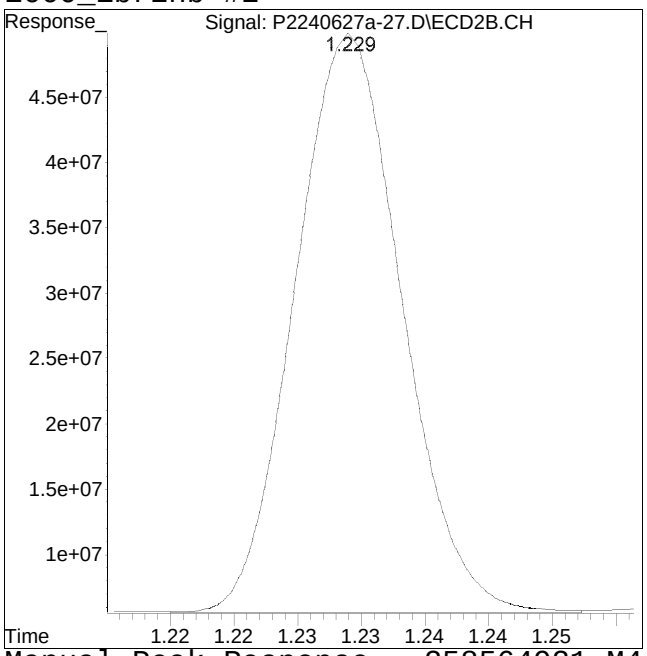
Original Peak Response = 383613226 Manual Peak Response = 374835889 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240627A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240627a-27.D Operator : pest2:mhg
Date Inj'd : 6/27/2024 12:29 Instrument : Pest 2
Sample : L2434679-04,42,, Quant Date : 6/27/2024 12:39 pm

Compound #52: 1660_1br2nb #2



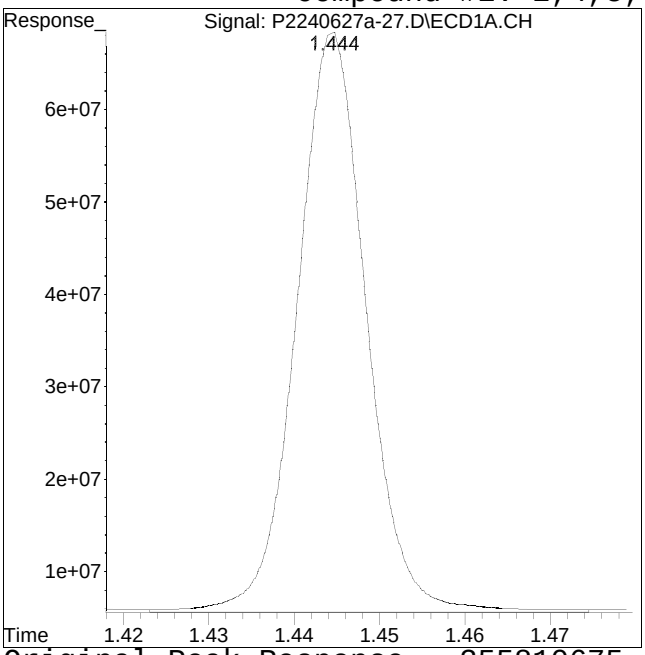


Original Peak Response = 263494842 Manual Peak Response = 258564921 M4
M4 = Poor automated baseline construction.

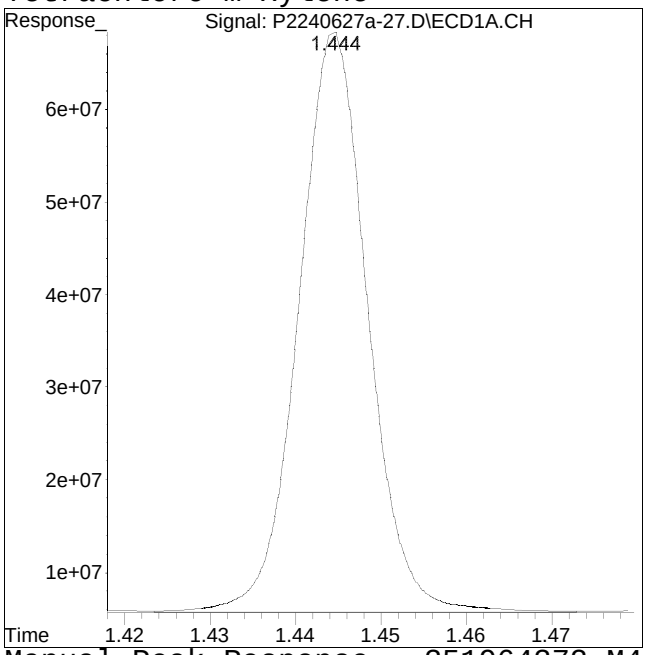
Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240627A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240627a-27.D Operator : pest2:mhg
Date Inj'd : 6/27/2024 12:29 Instrument : Pest 2
Sample : L2434679-04,42,, Quant Date : 6/27/2024 12:39 pm

Compound #2: 2,4,5,6-Tetrachloro-m-xylene



Original Peak Response = 355810675



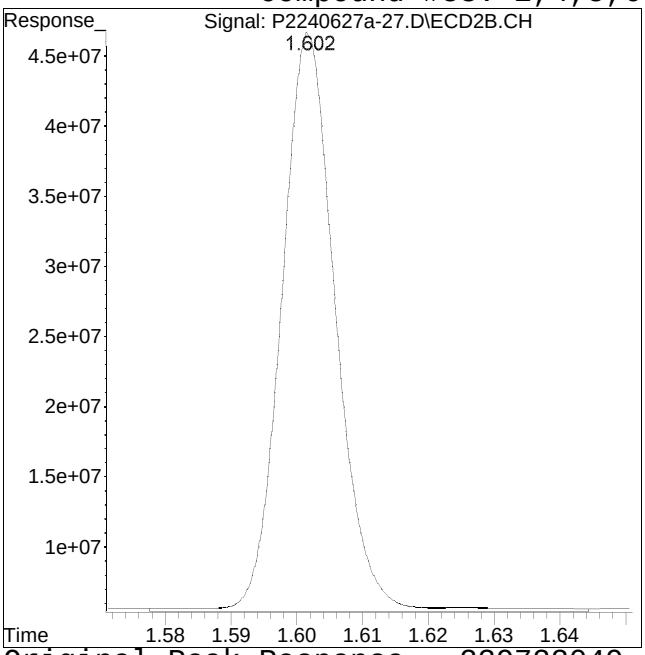
Manual Peak Response = 351964372 M4

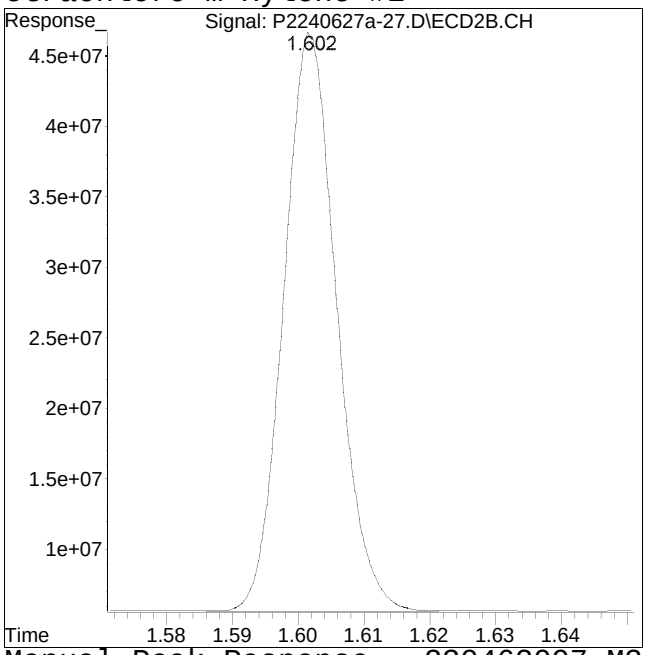
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240627A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240627a-27.D Operator : pest2:mhg
Date Inj'd : 6/27/2024 12:29 Instrument : Pest 2
Sample : L2434679-04,42,, Quant Date : 6/27/2024 12:39 pm

Compound #53: 2,4,5,6-Tetrachloro-m-xylene #2





Original Peak Response = 239722049 Manual Peak Response = 230462097 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240627A\
Data File : P2240627a-28.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 27 Jun 2024 12:38
Operator : pest2:mhg
Sample : L2434679-05,42,,
Misc : WG1940092,WG1939973,ical21102
ALS Vial : 28 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 27 13:00:14 2024
Quant Method : I:\PCB\Pest2\2024\240627A\P2_pcb_05_06_24_LVI_ugL_ICAL21102.m
Quant Title : pcb
QLast Update : Wed May 08 09:27:21 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PCB\Pest2\2024\240627A\P2240627a-02.D
Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Internal Standards							
1) i	1660_1br2nb	1.160	1.229	383.5E6	260.4E6	25.000M4	25.000M4
	Standard Area 1 : #1 = 386975749				Recovery =	99.11%	
	Standard Area 1 : #2 = 277930109				Recovery =	93.68%	
14) i	2154_1br2nb	1.160	1.229	383.5E6	260.4E6	25.000M4	25.000M4
23) i	4268_1br2nb	1.160	1.229	383.5E6	260.4E6	25.000M4	25.000M4
34) i	1248_1br2nb	1.160	1.229	383.5E6	260.4E6	25.000M4	25.000M4
40) i	3262_1br2nb	1.160	1.229	383.5E6	260.4E6	25.000M4	25.000M4
System Monitoring Compounds							
2) s	2,4,5,6-Tetr	1.445	1.601	364.5E6	236.4E6	18.128	18.426M4
	Spiked Amount 20.000	Range 30 - 150			Recovery =	90.64%	92.13%
3) s	Decachlorobi	4.014	4.524	252.0E6	178.7E6	19.395	29.587M3
	Spiked Amount 20.000	Range 30 - 150			Recovery =	96.97%	147.94%
Target Compounds							
4) l1	1016-1	0.000	0.000	0	0	N.D. d	N.D. d
5) l1	1016-2	0.000	0.000	0	0	N.D. d	N.D. d
6) l1	1016-3	0.000	0.000	0	0	N.D. d	N.D. d
7) l1	1016-4	0.000	0.000	0	0	N.D. d	N.D. d
8) l1	1016-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1016-1			0	0	N.D.	N.D.
	Average 1016-1					0.000	0.000
9) l2	1260-1	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\PCB\Pest2\2024\240627A\
Data File : P2240627a-28.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 27 Jun 2024 12:38
Operator : pest2:mhg
Sample : L2434679-05,42,,
Misc : WG1940092,WG1939973,ical21102
ALS Vial : 28 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 27 13:00:14 2024
Quant Method : I:\PCB\Pest2\2024\240627A\P2_pcb_05_06_24_LVI_ugL_ICAL21102.m
Quant Title : pcb
QLast Update : Wed May 08 09:27:21 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PCB\Pest2\2024\240627A\P2240627a-02.D
Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
10) l2 1260-2	0.000	0.000	0	0	N.D. d	N.D. d
11) l2 1260-3	0.000	0.000	0	0	N.D. d	N.D. d
12) l2 1260-4	0.000	0.000	0	0	N.D. d	N.D. d
13) l2 1260-5	0.000	0.000	0	0	N.D.	N.D.
Sum 1260-1			0	0	N.D.	N.D.
Average 1260-1					0.000	0.000
15) l3 1221-2	0.000	0.000	0	0	N.D. d	N.D. d
16) l3 1221-3	0.000	0.000	0	0	N.D. d	N.D. d
17) l3 1221-4	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1221-2			0	0	N.D.	N.D.
Average 1221-2					0.000	0.000
18) l4 1254-1	0.000	0.000	0	0	N.D. d	N.D. d
19) l4 1254-2	0.000	0.000	0	0	N.D. d	N.D. d
20) l4 1254-3	0.000	0.000	0	0	N.D.	N.D.
21) l4 1254-4	0.000	0.000	0	0	N.D. d	N.D. d
22) l4 1254-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1254-1			0	0	N.D.	N.D.
Average 1254-1					0.000	0.000
24) l6 1242-1	0.000	0.000	0	0	N.D. d	N.D. d
25) l6 1242-2	0.000	0.000	0	0	N.D. d	N.D. d
26) l6 1242-3	0.000	0.000	0	0	N.D. d	N.D. d
27) l6 1242-4	0.000	0.000	0	0	N.D. d	N.D. d
28) l6 1242-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1242-1			0	0	N.D.	N.D.
Average 1242-1					0.000	0.000
29) l9 1268-1	0.000	0.000	0	0	N.D.	N.D.
30) l9 1268-2	0.000	0.000	0	0	N.D.	N.D.
31) l9 1268-3	0.000	0.000	0	0	N.D.	N.D.
32) l9 1268-4	0.000	0.000	0	0	N.D. d	N.D. d
33) l9 1268-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1268-1			0	0	N.D.	N.D.
Average 1268-1					0.000	0.000

Data Path : I:\PCB\Pest2\2024\240627A\
Data File : P2240627a-28.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 27 Jun 2024 12:38
Operator : pest2:mhg
Sample : L2434679-05,42,,
Misc : WG1940092,WG1939973,ical21102
ALS Vial : 28 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 27 13:00:14 2024
Quant Method : I:\PCB\Pest2\2024\240627A\P2_pcb_05_06_24_LVI_ugL_ICAL21102.m
Quant Title : pcb
QLast Update : Wed May 08 09:27:21 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PCB\Pest2\2024\240627A\P2240627a-02.D
Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
35) l7 1248-1	0.000	0.000	0	0	N.D. d	N.D. d
36) l7 1248-2	0.000	0.000	0	0	N.D. d	N.D. d
37) l7 1248-3	0.000	0.000	0	0	N.D. d	N.D. d
38) l7 1248-4	0.000	0.000	0	0	N.D. d	N.D. d
39) l7 1248-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1248-1			0	0	N.D.	N.D.
Average 1248-1					0.000	0.000
41) l5 1232-1	0.000	0.000	0	0	N.D. d	N.D. d
42) l5 1232-2	0.000	0.000	0	0	N.D. d	N.D. d
43) l5 1232-3	0.000	0.000	0	0	N.D. d	N.D. d
44) l5 1232-4	0.000	0.000	0	0	N.D. d	N.D. d
45) l5 1232-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1232-1			0	0	N.D.	N.D.
Average 1232-1					0.000	0.000
46) l8 1262-1	0.000	0.000	0	0	N.D. d	N.D. d
47) l8 1262-2	0.000	0.000	0	0	N.D. d	N.D. d
48) l8 1262-3	0.000	0.000	0	0	N.D. d	N.D. d
49) l8 1262-4	0.000	0.000	0	0	N.D. d	N.D. d
50) l8 1262-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1262-1			0	0	N.D.	N.D.
Average 1262-1					0.000	0.000
SemiQuant Compounds - Not Calibrated on this Instrument						
Sum 1262-1			0	0	N.D.	N.D.
Average 1262-1					0.000	0.000

(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Data Path : I:\PCB\Pest2\2024\240627A\
Data File : P2240627a-28.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 27 Jun 2024 12:38
Operator : pest2:mhg
Sample : L2434679-05,42,,
Misc : WG1940092,WG1939973,ical21102
ALS Vial : 28 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 27 13:00:14 2024
Quant Method : I:\PCB\Pest2\2024\240627A\P2_pcb_05_06_24_LVI_ugL_ICAL21102.m
Quant Title : pcb
QLast Update : Wed May 08 09:27:21 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PCB\Pest2\2024\240627A\P2240627a-02.D
Sub List : Default - All compounds listed

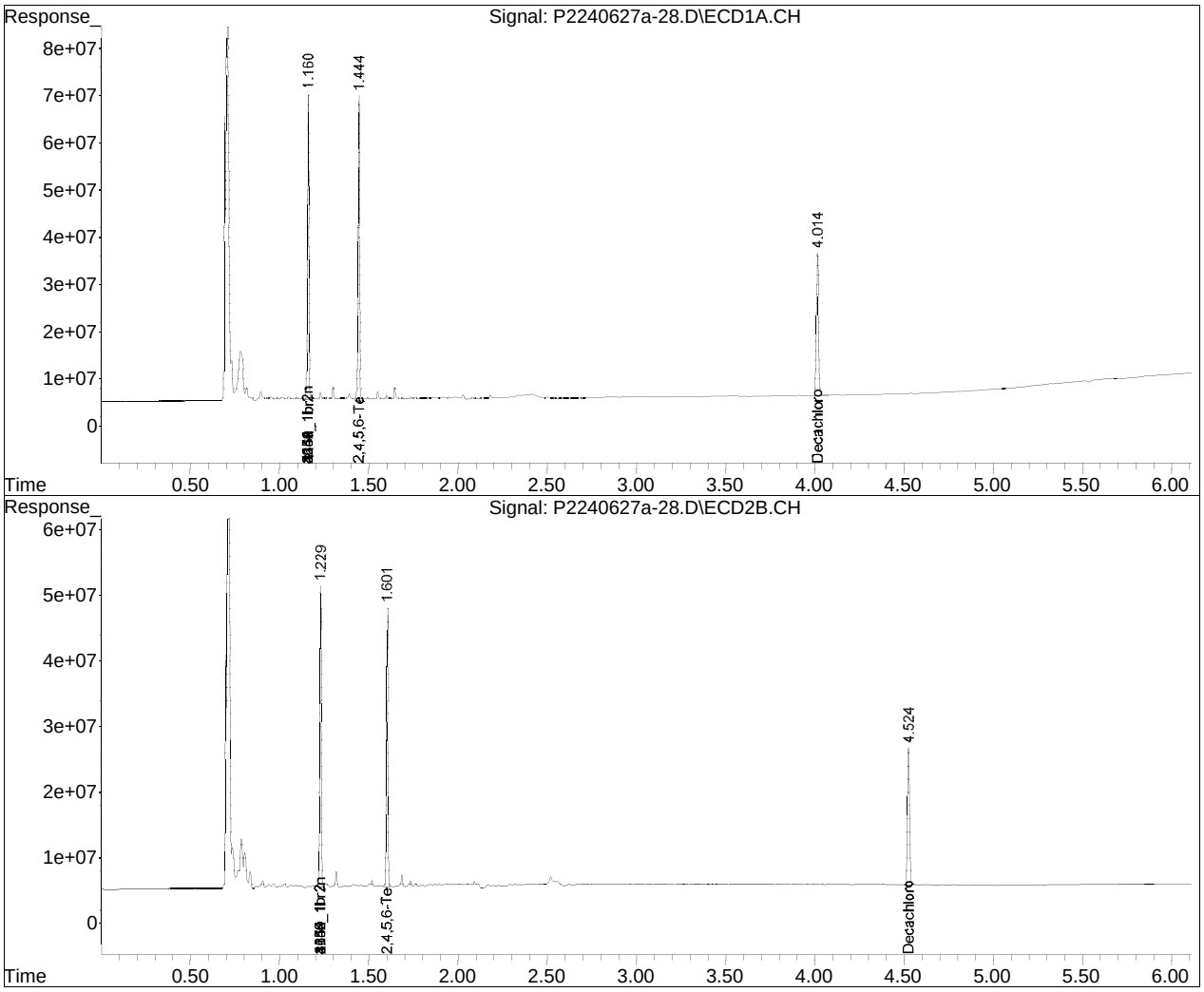
Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l

Sub List : Default - All compounds listedP2240627a-02.D•

Data Path : I:\PCB\Pest2\2024\240627A\
Data File : P2240627a-28.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 27 Jun 2024 12:38
Operator : pest2:mhg
Sample : L2434679-05,42,,
Misc : WG1940092,WG1939973,ical21102
ALS Vial : 28 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 27 13:00:14 2024
Quant Method : I:\PCB\Pest2\2024\240627A\P2_pcb_05_06_24_LVI_ugL_ICAL21102.m
Quant Title : pcb
QLast Update : Wed May 08 09:27:21 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

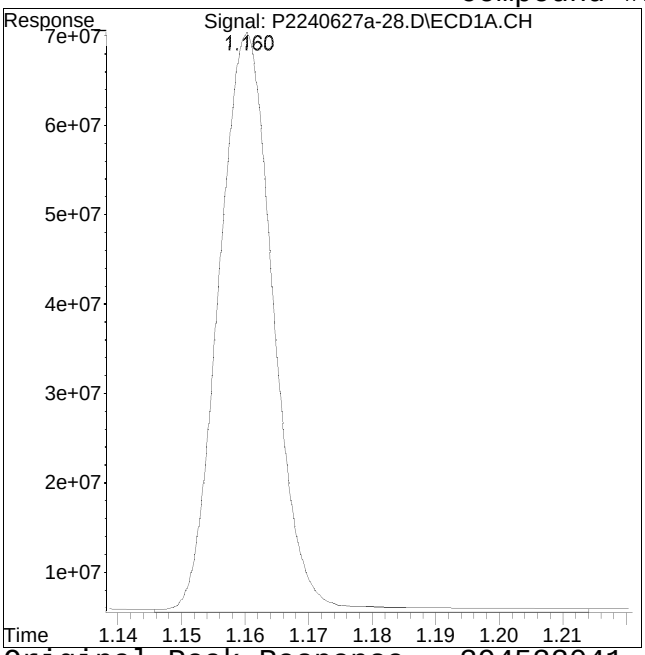
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

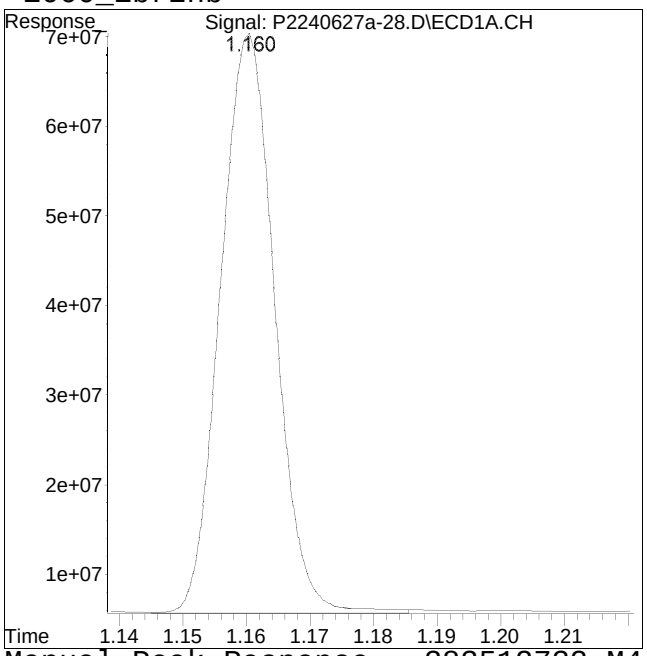


Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240627A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240627a-28.D Operator : pest2:mhg
Date Inj'd : 6/27/2024 12:38 Instrument : Pest 2
Sample : L2434679-05,42,, Quant Date : 6/27/2024 1:00 pm

Compound #1: 1660_1br2nb



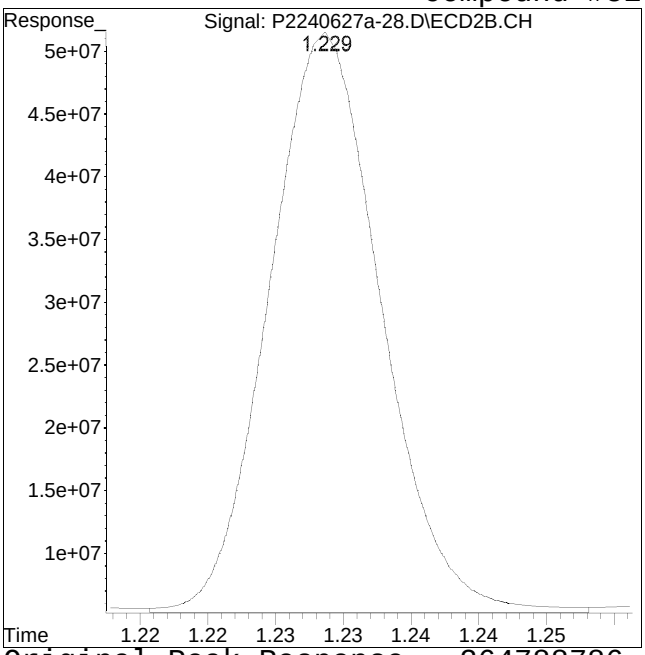


Original Peak Response = 394532041 Manual Peak Response = 383512732 M4
M4 = Poor automated baseline construction.

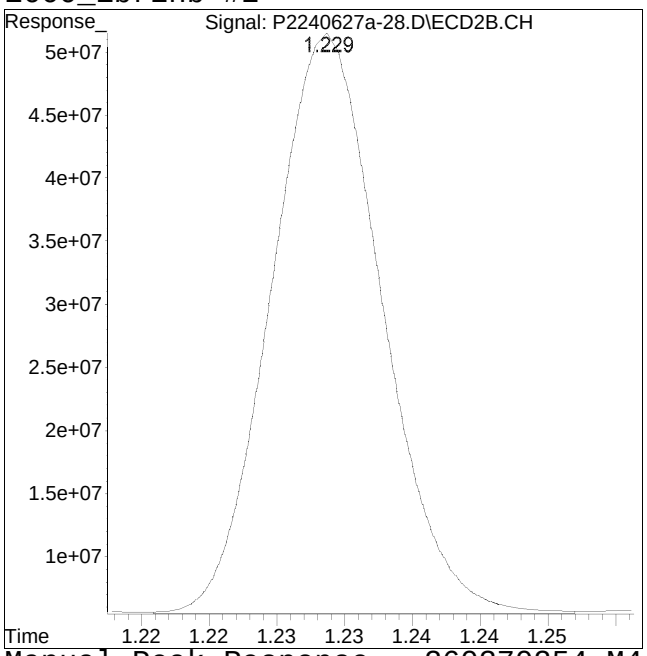
Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240627A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240627a-28.D Operator : pest2:mhg
Date Inj'd : 6/27/2024 12:38 Instrument : Pest 2
Sample : L2434679-05,42,, Quant Date : 6/27/2024 1:00 pm

Compound #52: 1660_1br2nb #2



Original Peak Response = 264788786



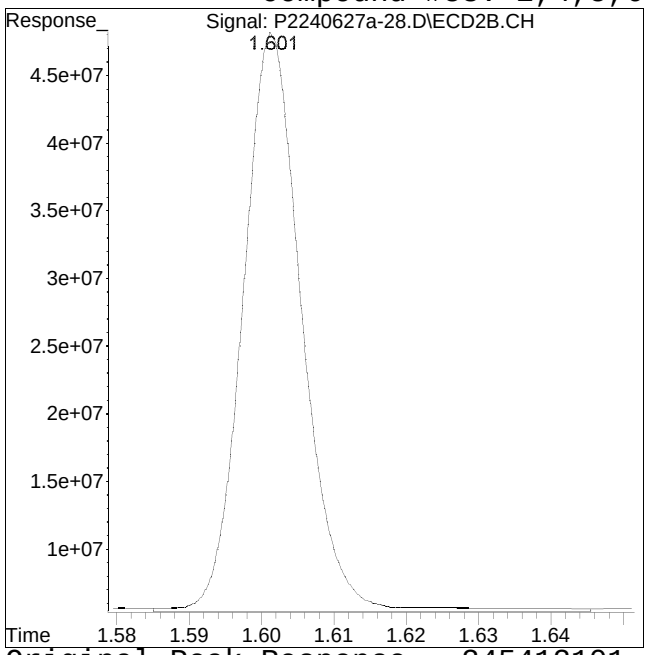
Manual Peak Response = 260370254 M4

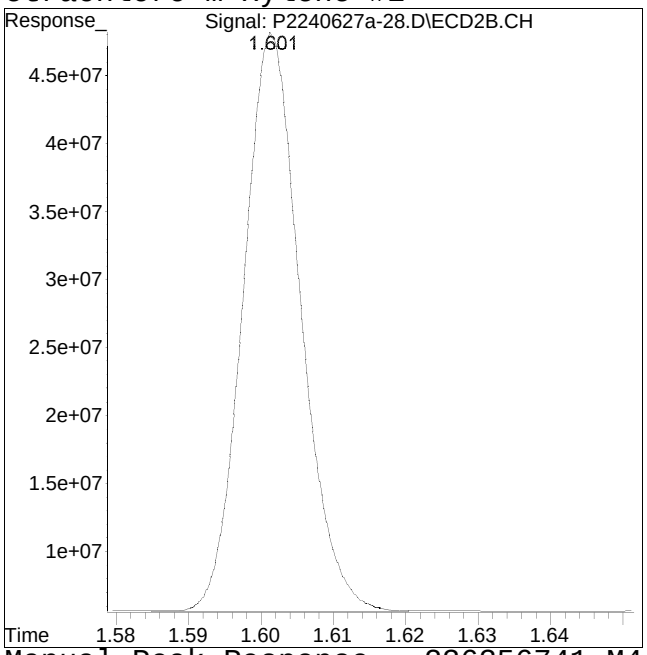
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240627A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240627a-28.D Operator : pest2:mhg
Date Inj'd : 6/27/2024 12:38 Instrument : Pest 2
Sample : L2434679-05,42,, Quant Date : 6/27/2024 1:00 pm

Compound #53: 2,4,5,6-Tetrachloro-m-xylene #2



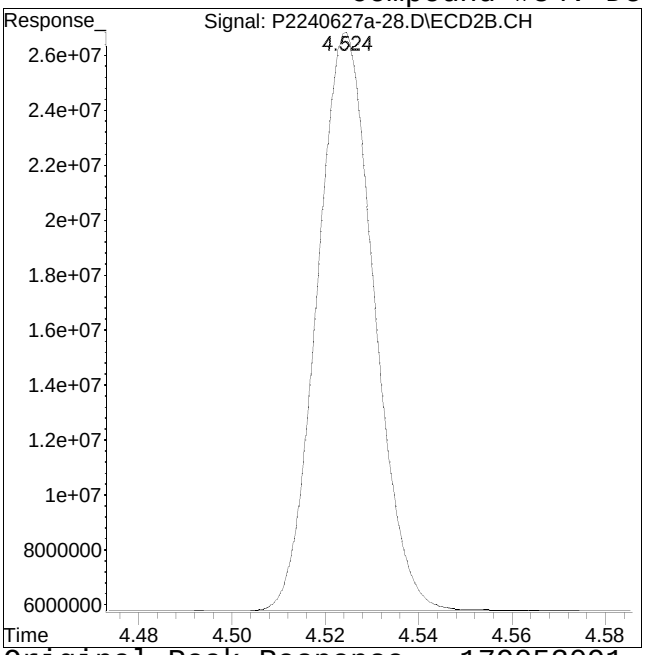


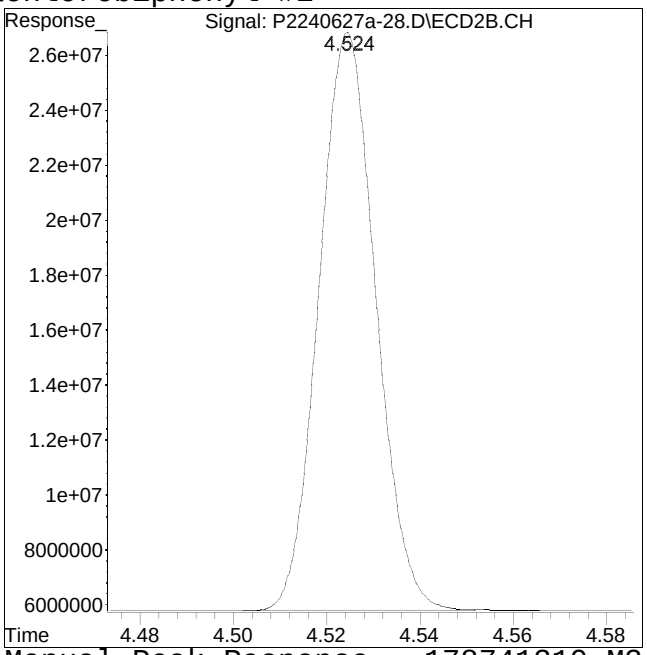
Original Peak Response = 245412101 Manual Peak Response = 236356741 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240627A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240627a-28.D Operator : pest2:mhg
Date Inj'd : 6/27/2024 12:38 Instrument : Pest 2
Sample : L2434679-05,42,, Quant Date : 6/27/2024 1:00 pm

Compound #54: Decachlorobiphenyl #2





Original Peak Response = 179053091 Manual Peak Response = 178741310 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240627A\
Data File : P2240627a-29.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 27 Jun 2024 12:46
Operator : pest2:mhg
Sample : L2434679-09,42,,
Misc : WG1940092,WG1939973,ical21102
ALS Vial : 29 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 27 13:00:18 2024
Quant Method : I:\PCB\Pest2\2024\240627A\P2_pcb_05_06_24_LVI_ugL_ICAL21102.m
Quant Title : pcb
QLast Update : Wed May 08 09:27:21 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PCB\Pest2\2024\240627A\P2240627a-02.D
Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Internal Standards							
1) i	1660_1br2nb	1.160	1.229	349.8E6	242.0E6	25.000M4	25.000M4
	Standard Area 1 : #1 = 386975749				Recovery =	90.39%	
	Standard Area 1 : #2 = 277930109				Recovery =	87.08%	
14) i	2154_1br2nb	1.160	1.229	349.8E6	242.0E6	25.000M4	25.000M4
23) i	4268_1br2nb	1.160	1.229	349.8E6	242.0E6	25.000M4	25.000M4
34) i	1248_1br2nb	1.160	1.229	349.8E6	242.0E6	25.000M4	25.000M4
40) i	3262_1br2nb	1.160	1.229	349.8E6	242.0E6	25.000M4	25.000M4
System Monitoring Compounds							
2) s	2,4,5,6-Tetr	1.444	1.602	320.5E6	217.0E6	17.476	18.201
	Spiked Amount 20.000	Range 30 - 150			Recovery =	87.38%	91.00%
3) s	Decachlorobi	4.013	4.524	233.6E6	168.8E6	19.714	30.059
	Spiked Amount 20.000	Range 30 - 150			Recovery =	98.57%	150.29%#
Target Compounds							
4) l1	1016-1	0.000	0.000	0	0	N.D. d	N.D. d
5) l1	1016-2	0.000	0.000	0	0	N.D. d	N.D. d
6) l1	1016-3	0.000	0.000	0	0	N.D. d	N.D. d
7) l1	1016-4	0.000	0.000	0	0	N.D. d	N.D. d
8) l1	1016-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1016-1			0	0	N.D.	N.D.
	Average 1016-1					0.000	0.000
9) l2	1260-1	0.000	0.000	0	0	N.D. d	N.D. d
10) l2	1260-2	0.000	0.000	0	0	N.D. d	N.D. d
11) l2	1260-3	0.000	0.000	0	0	N.D.	N.D.

Data Path : I:\PCB\Pest2\2024\240627A\
Data File : P2240627a-29.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 27 Jun 2024 12:46
Operator : pest2:mhg
Sample : L2434679-09,42,,
Misc : WG1940092,WG1939973,ical21102
ALS Vial : 29 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 27 13:00:18 2024
Quant Method : I:\PCB\Pest2\2024\240627A\P2_pcb_05_06_24_LVI_ugL_ICAL21102.m
Quant Title : pcb
QLast Update : Wed May 08 09:27:21 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PCB\Pest2\2024\240627A\P2240627a-02.D
Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
12) l2 1260-4	0.000	0.000	0	0	N.D.	N.D.
13) l2 1260-5	0.000	0.000	0	0	N.D.	N.D.
Sum 1260-1			0	0	N.D.	N.D.
Average 1260-1					0.000	0.000
15) l3 1221-2	0.000	0.000	0	0	N.D. d	N.D. d
16) l3 1221-3	0.000	0.000	0	0	N.D. d	N.D. d
17) l3 1221-4	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1221-2			0	0	N.D.	N.D.
Average 1221-2					0.000	0.000
18) l4 1254-1	0.000	0.000	0	0	N.D. d	N.D. d
19) l4 1254-2	0.000	0.000	0	0	N.D. d	N.D. d
20) l4 1254-3	0.000	0.000	0	0	N.D.	N.D.
21) l4 1254-4	0.000	0.000	0	0	N.D. d	N.D. d
22) l4 1254-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1254-1			0	0	N.D.	N.D.
Average 1254-1					0.000	0.000
24) l6 1242-1	0.000	0.000	0	0	N.D. d	N.D. d
25) l6 1242-2	0.000	0.000	0	0	N.D. d	N.D. d
26) l6 1242-3	0.000	0.000	0	0	N.D. d	N.D. d
27) l6 1242-4	0.000	0.000	0	0	N.D. d	N.D. d
28) l6 1242-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1242-1			0	0	N.D.	N.D.
Average 1242-1					0.000	0.000
29) l9 1268-1	0.000	0.000	0	0	N.D.	N.D.
30) l9 1268-2	0.000	0.000	0	0	N.D.	N.D.
31) l9 1268-3	0.000	0.000	0	0	N.D.	N.D.
32) l9 1268-4	0.000	0.000	0	0	N.D. d	N.D. d
33) l9 1268-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1268-1			0	0	N.D.	N.D.
Average 1268-1					0.000	0.000
35) l7 1248-1	0.000	0.000	0	0	N.D. d	N.D. d
36) l7 1248-2	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\PCB\Pest2\2024\240627A\
Data File : P2240627a-29.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 27 Jun 2024 12:46
Operator : pest2:mhg
Sample : L2434679-09,42,,
Misc : WG1940092,WG1939973,ical21102
ALS Vial : 29 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 27 13:00:18 2024
Quant Method : I:\PCB\Pest2\2024\240627A\P2_pcb_05_06_24_LVI_ugL_ICAL21102.m
Quant Title : pcb
QLast Update : Wed May 08 09:27:21 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PCB\Pest2\2024\240627A\P2240627a-02.D
Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
37) l7 1248-3	0.000	0.000	0	0	N.D. d	N.D. d
38) l7 1248-4	0.000	0.000	0	0	N.D. d	N.D. d
39) l7 1248-5	0.000	0.000	0	0	N.D.	N.D.
Sum 1248-1			0	0	N.D.	N.D.
Average 1248-1					0.000	0.000
41) l5 1232-1	0.000	0.000	0	0	N.D. d	N.D. d
42) l5 1232-2	0.000	0.000	0	0	N.D. d	N.D. d
43) l5 1232-3	0.000	0.000	0	0	N.D. d	N.D. d
44) l5 1232-4	0.000	0.000	0	0	N.D. d	N.D. d
45) l5 1232-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1232-1			0	0	N.D.	N.D.
Average 1232-1					0.000	0.000
46) l8 1262-1	0.000	0.000	0	0	N.D. d	N.D. d
47) l8 1262-2	0.000	0.000	0	0	N.D. d	N.D. d
48) l8 1262-3	0.000	0.000	0	0	N.D.	N.D.
49) l8 1262-4	0.000	0.000	0	0	N.D.	N.D.
50) l8 1262-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1262-1			0	0	N.D.	N.D.
Average 1262-1					0.000	0.000
SemiQuant Compounds - Not Calibrated on this Instrument						
Sum 1262-1			0	0	N.D.	N.D.
Average 1262-1					0.000	0.000

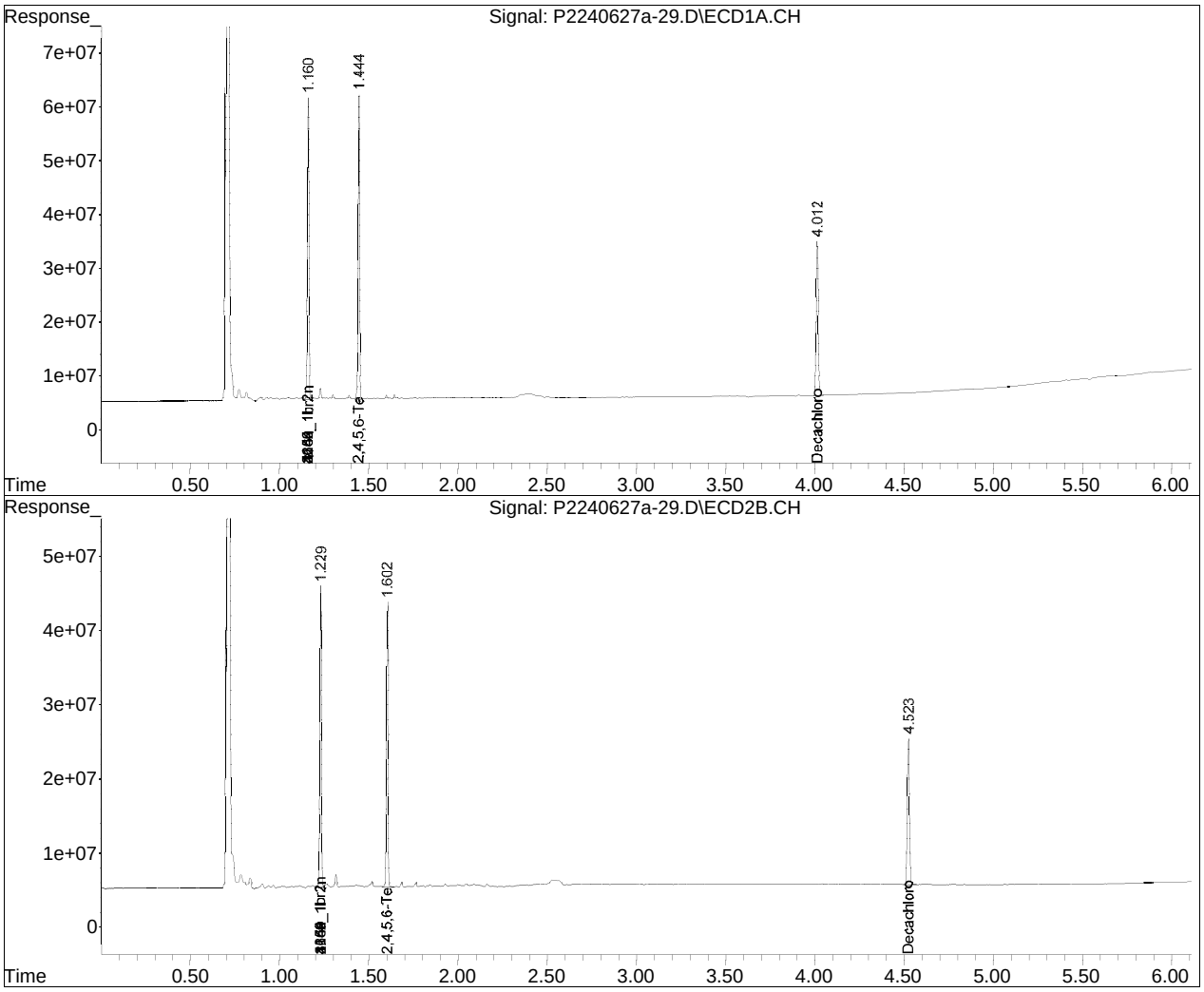
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listedP2240627a-02.D•

Data Path : I:\PCB\Pest2\2024\240627A\
Data File : P2240627a-29.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 27 Jun 2024 12:46
Operator : pest2:mhg
Sample : L2434679-09,42,,
Misc : WG1940092,WG1939973,ical21102
ALS Vial : 29 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 27 13:00:18 2024
Quant Method : I:\PCB\Pest2\2024\240627A\P2_pcb_05_06_24_LVI_ugL_ICAL21102.m
Quant Title : pcb
QLast Update : Wed May 08 09:27:21 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

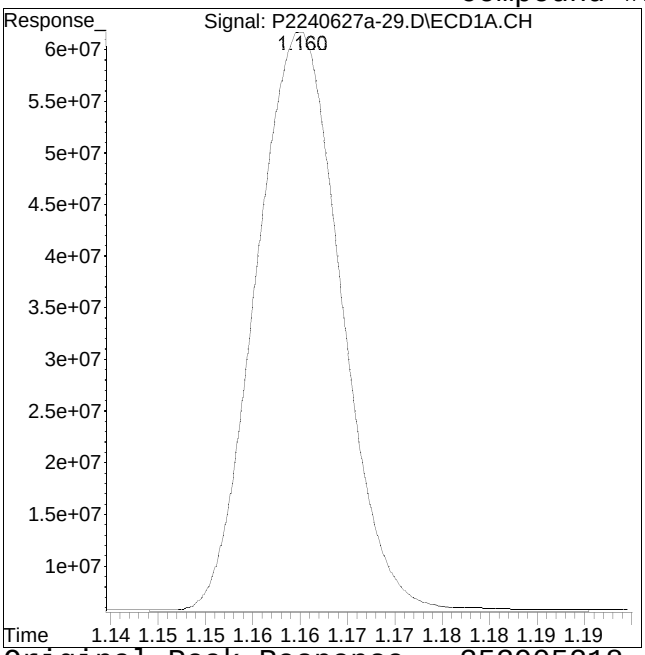
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

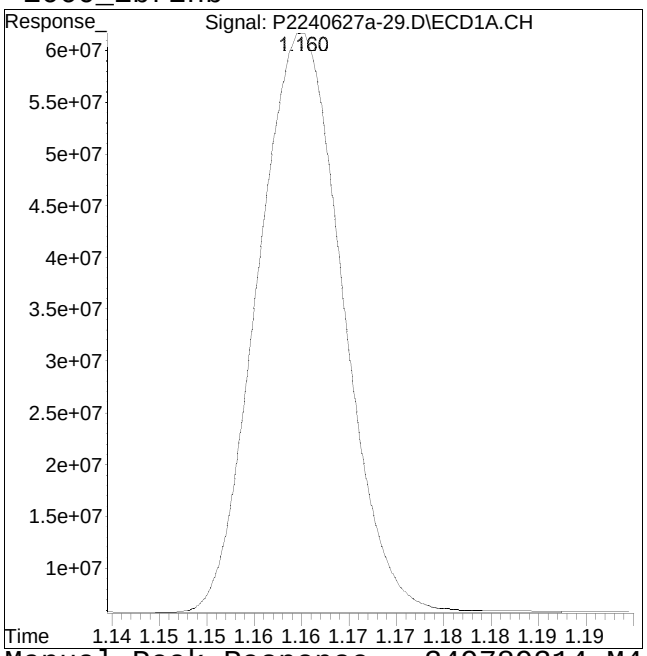


Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240627A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240627a-29.D Operator : pest2:mhg
Date Inj'd : 6/27/2024 12:46 Instrument : Pest 2
Sample : L2434679-09,42,, Quant Date : 6/27/2024 1:00 pm

Compound #1: 1660_1br2nb



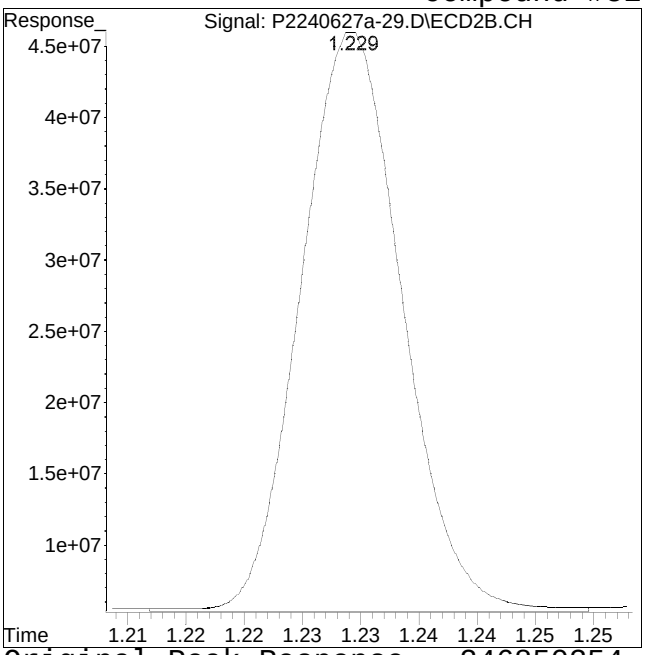


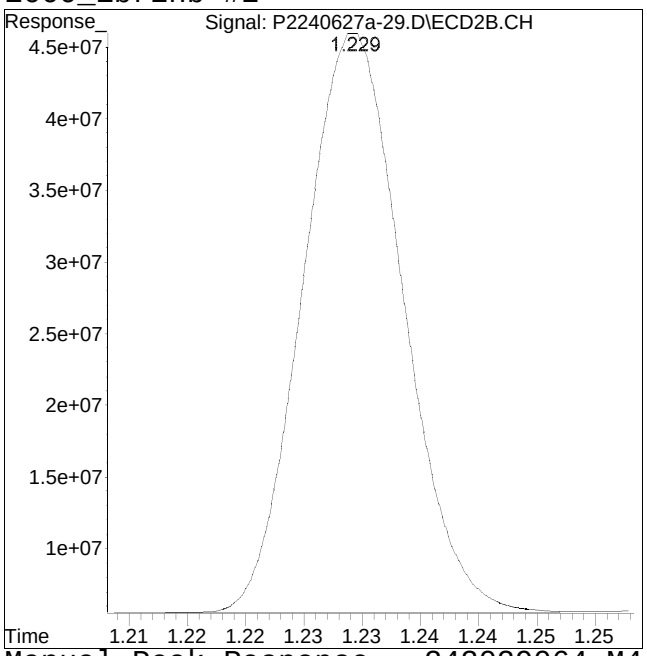
Original Peak Response = 353905218 Manual Peak Response = 349789314 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240627A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240627a-29.D Operator : pest2:mhg
Date Inj'd : 6/27/2024 12:46 Instrument : Pest 2
Sample : L2434679-09,42,, Quant Date : 6/27/2024 1:00 pm

Compound #52: 1660_1br2nb #2





Original Peak Response = 246850354 Manual Peak Response = 242029064 M4
M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240627A\
Data File : P2240627a-30.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 27 Jun 2024 12:55
Operator : pest2:mhg
Sample : L2434679-11,42,,
Misc : WG1940092,WG1939973,ical21102
ALS Vial : 30 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 27 13:02:11 2024
Quant Method : I:\PCB\Pest2\2024\240627A\P2_pcb_05_06_24_LVI_ugL_ICAL21102.m
Quant Title : pcb
QLast Update : Wed May 08 09:27:21 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PCB\Pest2\2024\240627A\P2240627a-02.D
Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Internal Standards							
1) i	1660_1br2nb	1.160	1.229	356.6E6	247.3E6	25.000M4	25.000M4
	Standard Area 1 : #1 = 386975749				Recovery =	92.15%	
	Standard Area 1 : #2 = 277930109				Recovery =	88.98%	
14) i	2154_1br2nb	1.160	1.229	356.6E6	247.3E6	25.000M4	25.000M4
23) i	4268_1br2nb	1.160	1.229	356.6E6	247.3E6	25.000M4	25.000M4
34) i	1248_1br2nb	1.160	1.229	356.6E6	247.3E6	25.000M4	25.000M4
40) i	3262_1br2nb	1.160	1.229	356.6E6	247.3E6	25.000M4	25.000M4
System Monitoring Compounds							
2) s	2,4,5,6-Tetr	1.444	1.602	344.0E6	226.8E6	18.401	18.614
	Spiked Amount 20.000	Range 30 - 150			Recovery =	92.01%	93.07%
3) s	Decachlorobi	4.013	4.524	241.5E6	172.2E6	19.991	30.005
	Spiked Amount 20.000	Range 30 - 150			Recovery =	99.95%	150.02%#
Target Compounds							
4) l1	1016-1	0.000	0.000	0	0	N.D. d	N.D. d
5) l1	1016-2	0.000	0.000	0	0	N.D. d	N.D. d
6) l1	1016-3	0.000	0.000	0	0	N.D. d	N.D. d
7) l1	1016-4	0.000	0.000	0	0	N.D. d	N.D. d
8) l1	1016-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1016-1			0	0	N.D.	N.D.
	Average 1016-1					0.000	0.000
9) l2	1260-1	0.000	0.000	0	0	N.D. d	N.D. d
10) l2	1260-2	0.000	0.000	0	0	N.D. d	N.D. d
11) l2	1260-3	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\PCB\Pest2\2024\240627A\
Data File : P2240627a-30.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 27 Jun 2024 12:55
Operator : pest2:mhg
Sample : L2434679-11,42,,
Misc : WG1940092,WG1939973,ical21102
ALS Vial : 30 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 27 13:02:11 2024
Quant Method : I:\PCB\Pest2\2024\240627A\P2_pcb_05_06_24_LVI_ugL_ICAL21102.m
Quant Title : pcb
QLast Update : Wed May 08 09:27:21 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PCB\Pest2\2024\240627A\P2240627a-02.D
Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
12) l2 1260-4	0.000	0.000	0	0	N.D.	N.D.
13) l2 1260-5	0.000	0.000	0	0	N.D.	N.D.
Sum 1260-1			0	0	N.D.	N.D.
Average 1260-1					0.000	0.000
15) l3 1221-2	0.000	0.000	0	0	N.D. d	N.D. d
16) l3 1221-3	0.000	0.000	0	0	N.D. d	N.D. d
17) l3 1221-4	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1221-2			0	0	N.D.	N.D.
Average 1221-2					0.000	0.000
18) l4 1254-1	0.000	0.000	0	0	N.D. d	N.D. d
19) l4 1254-2	0.000	0.000	0	0	N.D. d	N.D. d
20) l4 1254-3	0.000	0.000	0	0	N.D.	N.D.
21) l4 1254-4	0.000	0.000	0	0	N.D. d	N.D. d
22) l4 1254-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1254-1			0	0	N.D.	N.D.
Average 1254-1					0.000	0.000
24) l6 1242-1	0.000	0.000	0	0	N.D. d	N.D. d
25) l6 1242-2	0.000	0.000	0	0	N.D. d	N.D. d
26) l6 1242-3	0.000	0.000	0	0	N.D. d	N.D. d
27) l6 1242-4	0.000	0.000	0	0	N.D. d	N.D. d
28) l6 1242-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1242-1			0	0	N.D.	N.D.
Average 1242-1					0.000	0.000
29) l9 1268-1	0.000	0.000	0	0	N.D.	N.D.
30) l9 1268-2	0.000	0.000	0	0	N.D.	N.D.
31) l9 1268-3	0.000	0.000	0	0	N.D.	N.D.
32) l9 1268-4	0.000	0.000	0	0	N.D. d	N.D. d
33) l9 1268-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1268-1			0	0	N.D.	N.D.
Average 1268-1					0.000	0.000
35) l7 1248-1	0.000	0.000	0	0	N.D. d	N.D. d
36) l7 1248-2	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\PCB\Pest2\2024\240627A\
Data File : P2240627a-30.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 27 Jun 2024 12:55
Operator : pest2:mhg
Sample : L2434679-11,42,,
Misc : WG1940092,WG1939973,ical21102
ALS Vial : 30 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 27 13:02:11 2024
Quant Method : I:\PCB\Pest2\2024\240627A\P2_pcb_05_06_24_LVI_ugL_ICAL21102.m
Quant Title : pcb
QLast Update : Wed May 08 09:27:21 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PCB\Pest2\2024\240627A\P2240627a-02.D
Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
37) l7 1248-3	0.000	0.000	0	0	N.D. d	N.D. d
38) l7 1248-4	0.000	0.000	0	0	N.D. d	N.D. d
39) l7 1248-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1248-1			0	0	N.D.	N.D.
Average 1248-1					0.000	0.000
41) l5 1232-1	0.000	0.000	0	0	N.D. d	N.D. d
42) l5 1232-2	0.000	0.000	0	0	N.D. d	N.D. d
43) l5 1232-3	0.000	0.000	0	0	N.D. d	N.D. d
44) l5 1232-4	0.000	0.000	0	0	N.D. d	N.D. d
45) l5 1232-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1232-1			0	0	N.D.	N.D.
Average 1232-1					0.000	0.000
46) l8 1262-1	0.000	0.000	0	0	N.D. d	N.D. d
47) l8 1262-2	0.000	0.000	0	0	N.D. d	N.D. d
48) l8 1262-3	0.000	0.000	0	0	N.D. d	N.D. d
49) l8 1262-4	0.000	0.000	0	0	N.D.	N.D.
50) l8 1262-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1262-1			0	0	N.D.	N.D.
Average 1262-1					0.000	0.000
SemiQuant Compounds - Not Calibrated on this Instrument						
Sum 1262-1			0	0	N.D.	N.D.
Average 1262-1					0.000	0.000

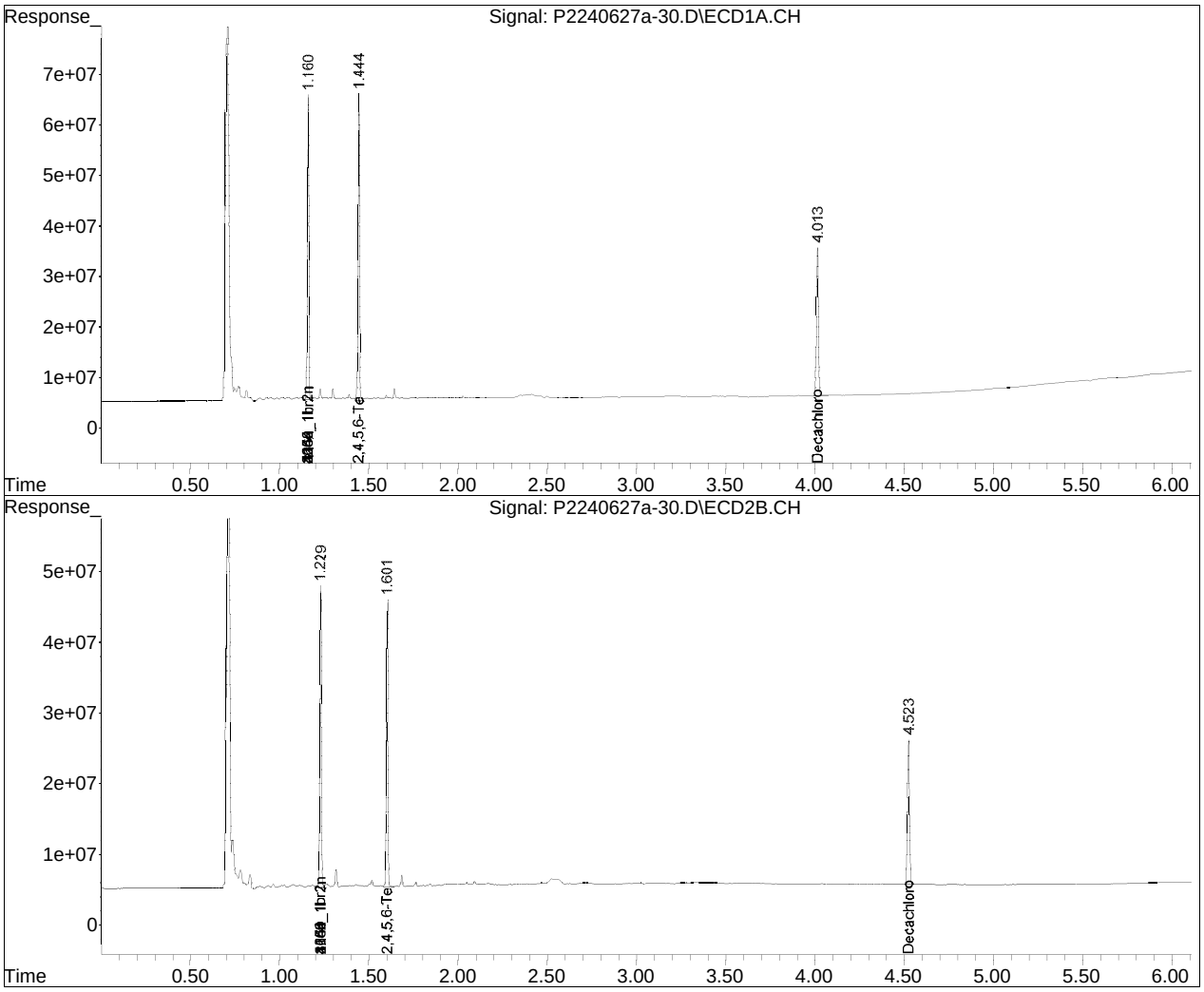
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listedP2240627a-02.D•

Data Path : I:\PCB\Pest2\2024\240627A\
Data File : P2240627a-30.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 27 Jun 2024 12:55
Operator : pest2:mhg
Sample : L2434679-11,42,,
Misc : WG1940092,WG1939973,ical21102
ALS Vial : 30 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 27 13:02:11 2024
Quant Method : I:\PCB\Pest2\2024\240627A\P2_pcb_05_06_24_LVI_ugL_ICAL21102.m
Quant Title : pcb
QLast Update : Wed May 08 09:27:21 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

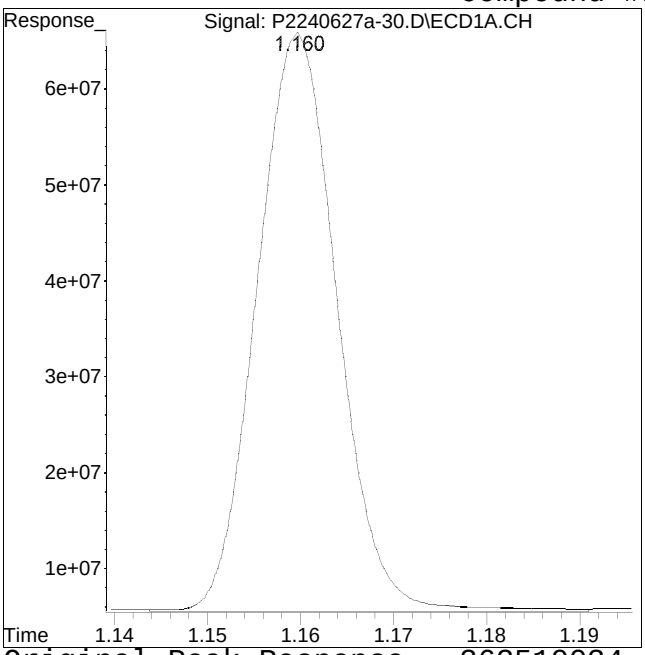
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

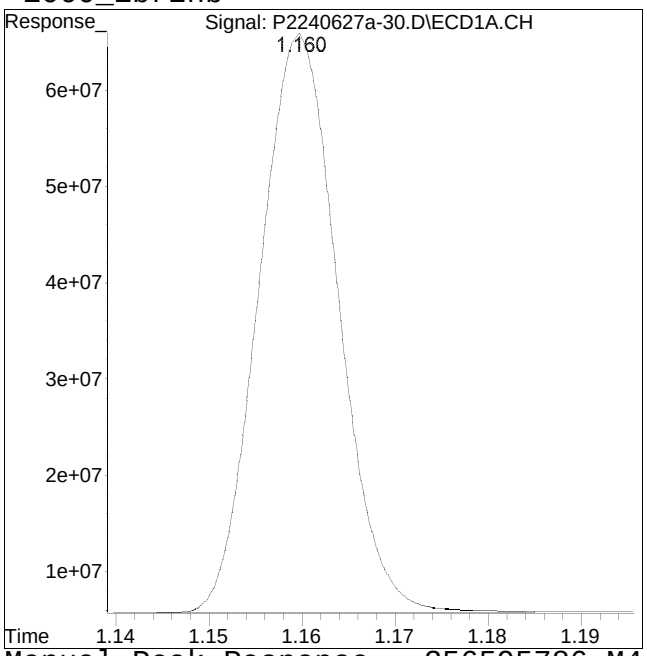


Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240627A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240627a-30.D Operator : pest2:mhg
Date Inj'd : 6/27/2024 12:55 Instrument : Pest 2
Sample : L2434679-11,42,, Quant Date : 6/27/2024 1:02 pm

Compound #1: 1660_1br2nb



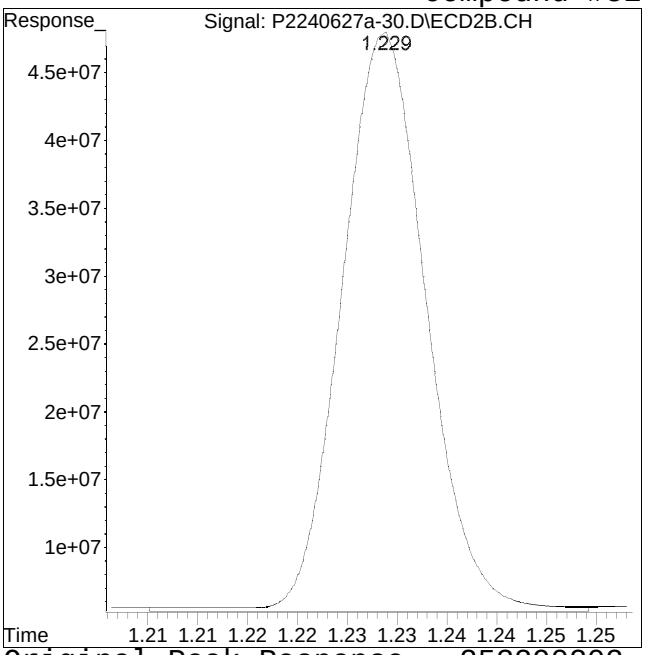


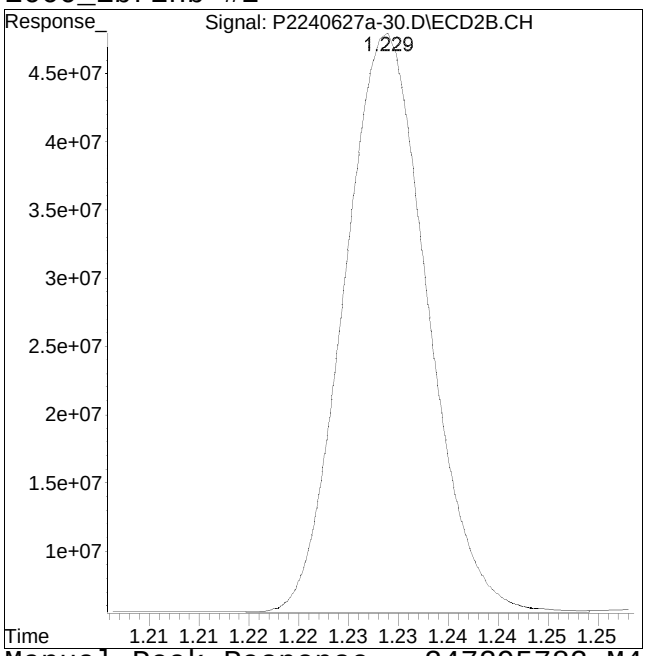
Original Peak Response = 363510034 Manual Peak Response = 356595786 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240627A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240627a-30.D Operator : pest2:mhg
Date Inj'd : 6/27/2024 12:55 Instrument : Pest 2
Sample : L2434679-11,42,, Quant Date : 6/27/2024 1:02 pm

Compound #52: 1660_1br2nb #2





Original Peak Response = 253290202 Manual Peak Response = 247295782 M4
M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240627A\
Data File : P2240627a-31.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 27 Jun 2024 13:03
Operator : pest2:mhg
Sample : L2434679-12,42,,
Misc : WG1940092,WG1939973,ical21102
ALS Vial : 31 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 27 13:10:27 2024
Quant Method : I:\PCB\Pest2\2024\240627A\P2_pcb_05_06_24_LVI_ugL_ICAL21102.m
Quant Title : pcb
QLast Update : Wed May 08 09:27:21 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PCB\Pest2\2024\240627A\P2240627a-02.D
Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Internal Standards							
1) i	1660_1br2nb	1.159	1.229	358.3E6	248.7E6	25.000M4	25.000M3
	Standard Area 1 : #1 = 386975749				Recovery =	92.60%	
	Standard Area 1 : #2 = 277930109				Recovery =	89.49%	
14) i	2154_1br2nb	1.159	1.229	358.3E6	248.7E6	25.000M4	25.000M3
23) i	4268_1br2nb	1.159	1.229	358.3E6	248.7E6	25.000M4	25.000M3
34) i	1248_1br2nb	1.159	1.229	358.3E6	248.7E6	25.000M4	25.000M3
40) i	3262_1br2nb	1.159	1.229	358.3E6	248.7E6	25.000M4	25.000M3
System Monitoring Compounds							
2) s	2,4,5,6-Tetr	1.444	1.601	342.9E6	225.4E6	18.252	18.396M3
	Spiked Amount 20.000	Range 30 - 150			Recovery =	91.26%	91.98%
3) s	Decachlorobi	4.013	4.523	118.5E6	87905787	9.765	15.232M3
	Spiked Amount 20.000	Range 30 - 150			Recovery =	48.83%	76.16%
Target Compounds							
4) l1	1016-1	0.000	0.000	0	0	N.D. d	N.D. d
5) l1	1016-2	0.000	0.000	0	0	N.D.	N.D.
6) l1	1016-3	0.000	0.000	0	0	N.D. d	N.D. d
7) l1	1016-4	0.000	0.000	0	0	N.D. d	N.D. d
8) l1	1016-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1016-1			0	0	N.D.	N.D.
	Average 1016-1					0.000	0.000
9) l2	1260-1	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\PCB\Pest2\2024\240627A\
Data File : P2240627a-31.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 27 Jun 2024 13:03
Operator : pest2:mhg
Sample : L2434679-12,42,,
Misc : WG1940092,WG1939973,ical21102
ALS Vial : 31 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 27 13:10:27 2024
Quant Method : I:\PCB\Pest2\2024\240627A\P2_pcb_05_06_24_LVI_ugL_ICAL21102.m
Quant Title : pcb
QLast Update : Wed May 08 09:27:21 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PCB\Pest2\2024\240627A\P2240627a-02.D
Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
10) l2 1260-2	0.000	0.000	0	0	N.D.	N.D.
11) l2 1260-3	0.000	0.000	0	0	N.D. d	N.D. d
12) l2 1260-4	0.000	0.000	0	0	N.D. d	N.D. d
13) l2 1260-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1260-1			0	0	N.D.	N.D.
Average 1260-1					0.000	0.000
15) l3 1221-2	0.000	0.000	0	0	N.D. d	N.D. d
16) l3 1221-3	0.000	0.000	0	0	N.D. d	N.D. d
17) l3 1221-4	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1221-2			0	0	N.D.	N.D.
Average 1221-2					0.000	0.000
18) l4 1254-1	0.000	0.000	0	0	N.D.	N.D.
19) l4 1254-2	0.000	0.000	0	0	N.D. d	N.D. d
20) l4 1254-3	0.000	0.000	0	0	N.D.	N.D.
21) l4 1254-4	0.000	0.000	0	0	N.D. d	N.D. d
22) l4 1254-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1254-1			0	0	N.D.	N.D.
Average 1254-1					0.000	0.000
24) l6 1242-1	0.000	0.000	0	0	N.D. d	N.D. d
25) l6 1242-2	0.000	0.000	0	0	N.D.	N.D.
26) l6 1242-3	0.000	0.000	0	0	N.D. d	N.D. d
27) l6 1242-4	0.000	0.000	0	0	N.D. d	N.D. d
28) l6 1242-5	0.000	0.000	0	0	N.D.	N.D.
Sum 1242-1			0	0	N.D.	N.D.
Average 1242-1					0.000	0.000
29) l9 1268-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l9 1268-2	0.000	0.000	0	0	N.D.	N.D.
31) l9 1268-3	0.000	0.000	0	0	N.D. d	N.D. d
32) l9 1268-4	0.000	0.000	0	0	N.D. d	N.D. d
33) l9 1268-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1268-1			0	0	N.D.	N.D.
Average 1268-1					0.000	0.000

Data Path : I:\PCB\Pest2\2024\240627A\
Data File : P2240627a-31.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 27 Jun 2024 13:03
Operator : pest2:mhg
Sample : L2434679-12,42,,
Misc : WG1940092,WG1939973,ical21102
ALS Vial : 31 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 27 13:10:27 2024
Quant Method : I:\PCB\Pest2\2024\240627A\P2_pcb_05_06_24_LVI_ugL_ICAL21102.m
Quant Title : pcb
QLast Update : Wed May 08 09:27:21 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PCB\Pest2\2024\240627A\P2240627a-02.D
Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
35) l7 1248-1	0.000	0.000	0	0	N.D. d	N.D. d
36) l7 1248-2	0.000	0.000	0	0	N.D. d	N.D. d
37) l7 1248-3	0.000	0.000	0	0	N.D. d	N.D. d
38) l7 1248-4	0.000	0.000	0	0	N.D.	N.D.
39) l7 1248-5	0.000	0.000	0	0	N.D.	N.D.
Sum 1248-1			0	0	N.D.	N.D.
Average 1248-1					0.000	0.000
41) l5 1232-1	0.000	0.000	0	0	N.D. d	N.D. d
42) l5 1232-2	0.000	0.000	0	0	N.D.	N.D.
43) l5 1232-3	0.000	0.000	0	0	N.D. d	N.D. d
44) l5 1232-4	0.000	0.000	0	0	N.D. d	N.D. d
45) l5 1232-5	0.000	0.000	0	0	N.D.	N.D.
Sum 1232-1			0	0	N.D.	N.D.
Average 1232-1					0.000	0.000
46) l8 1262-1	0.000	0.000	0	0	N.D.	N.D.
47) l8 1262-2	0.000	0.000	0	0	N.D. d	N.D. d
48) l8 1262-3	0.000	0.000	0	0	N.D. d	N.D. d
49) l8 1262-4	0.000	0.000	0	0	N.D. d	N.D. d
50) l8 1262-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1262-1			0	0	N.D.	N.D.
Average 1262-1					0.000	0.000
SemiQuant Compounds - Not Calibrated on this Instrument						
Sum 1262-1			0	0	N.D.	N.D.
Average 1262-1					0.000	0.000

(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240627A\
Data File : P2240627a-31.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 27 Jun 2024 13:03
Operator : pest2:mhg
Sample : L2434679-12,42,,
Misc : WG1940092,WG1939973,ical21102
ALS Vial : 31 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 27 13:10:27 2024
Quant Method : I:\PCB\Pest2\2024\240627A\P2_pcb_05_06_24_LVI_ugL_ICAL21102.m
Quant Title : pcb
QLast Update : Wed May 08 09:27:21 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PCB\Pest2\2024\240627A\P2240627a-02.D
Sub List : Default - All compounds listed

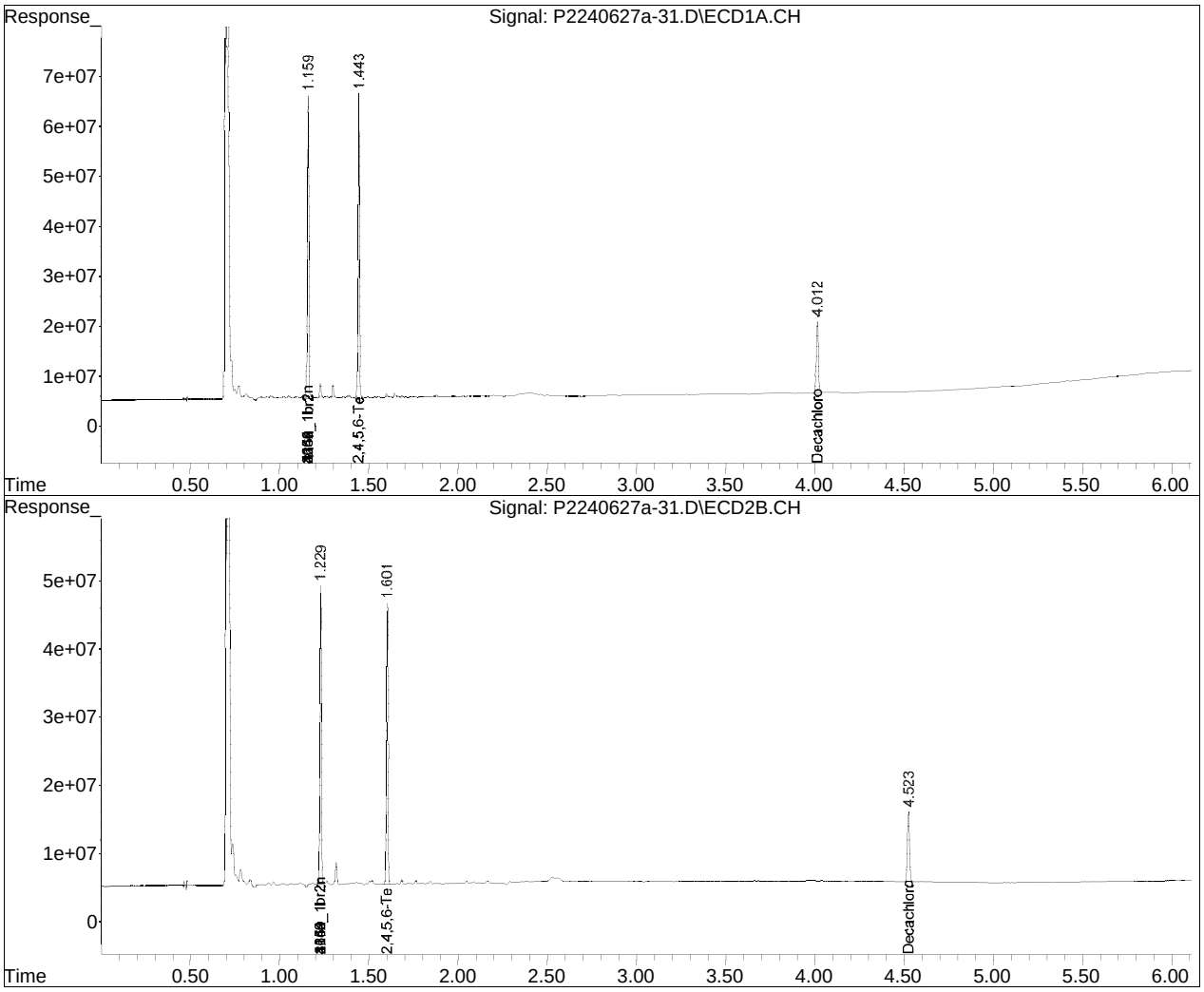
Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l

Sub List : Default - All compounds listedP2240627a-02.D•

Data Path : I:\PCB\Pest2\2024\240627A\
Data File : P2240627a-31.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 27 Jun 2024 13:03
Operator : pest2:mhg
Sample : L2434679-12,42,,
Misc : WG1940092,WG1939973,ical21102
ALS Vial : 31 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 27 13:10:27 2024
Quant Method : I:\PCB\Pest2\2024\240627A\P2_pcb_05_06_24_LVI_ugL_ICAL21102.m
Quant Title : pcb
QLast Update : Wed May 08 09:27:21 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

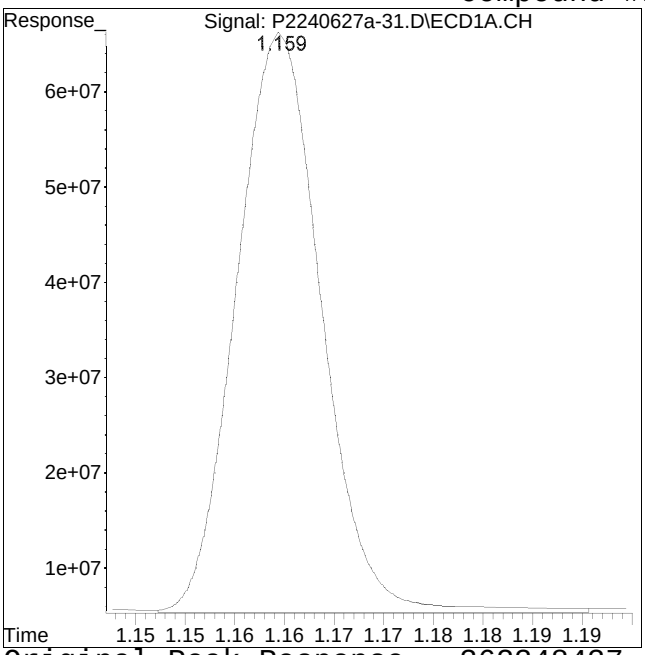
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

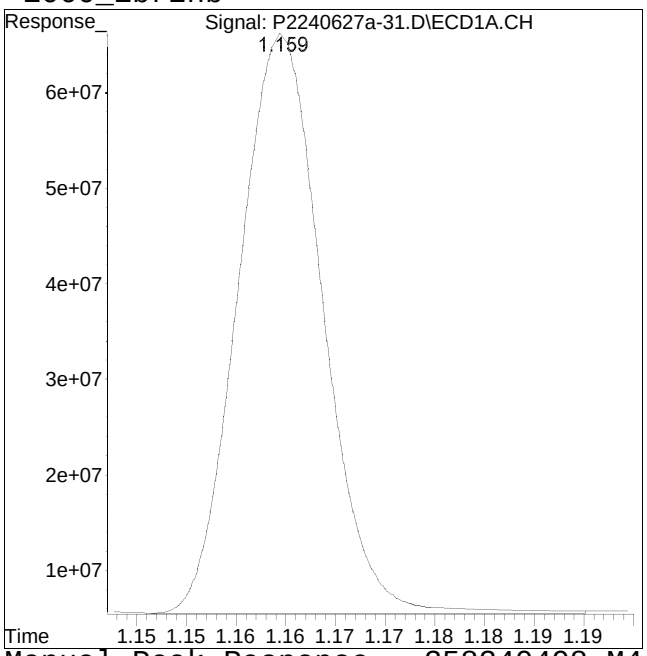


Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240627A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240627a-31.D Operator : pest2:mhg
Date Inj'd : 6/27/2024 13:03 Instrument : Pest 2
Sample : L2434679-12,42,, Quant Date : 6/27/2024 1:10 pm

Compound #1: 1660_1br2nb



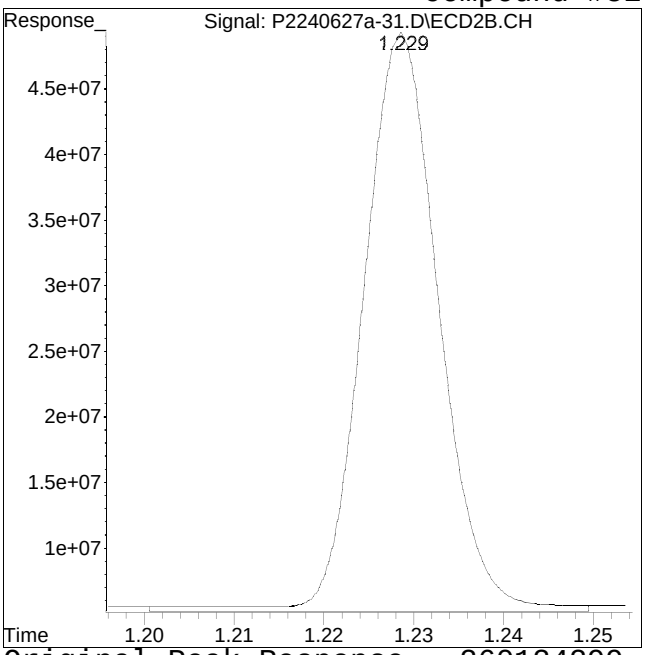


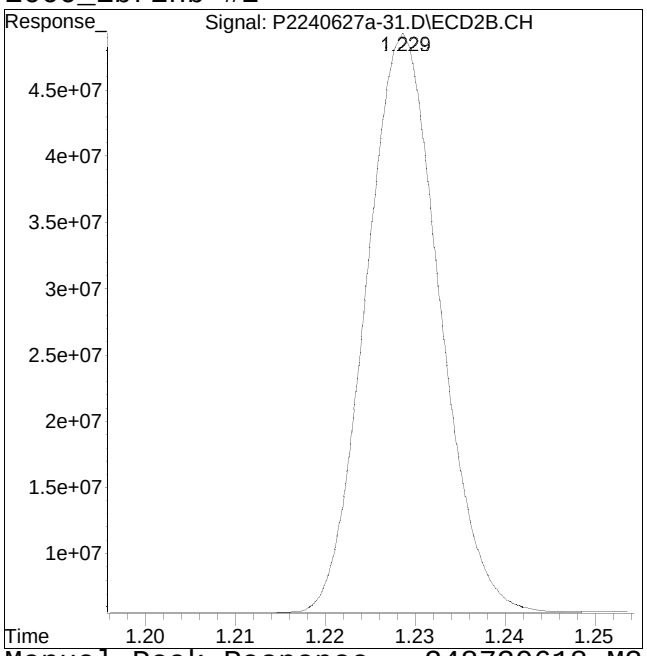
Original Peak Response = 362348437 Manual Peak Response = 358340498 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240627A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240627a-31.D Operator : pest2:mhg
Date Inj'd : 6/27/2024 13:03 Instrument : Pest 2
Sample : L2434679-12,42,, Quant Date : 6/27/2024 1:10 pm

Compound #52: 1660_1br2nb #2



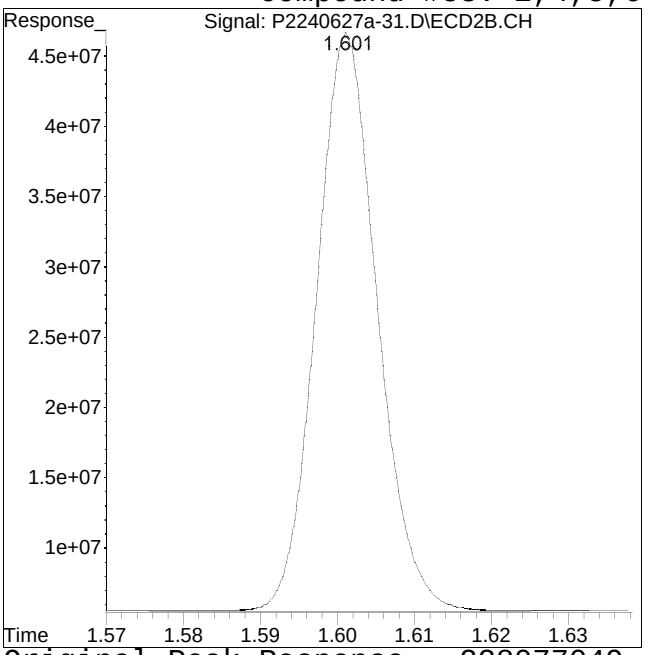


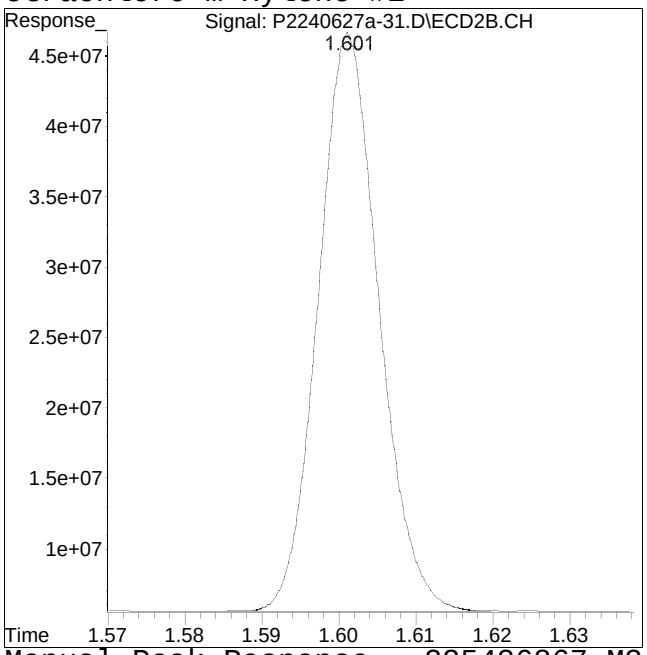
Original Peak Response = 260124299 Manual Peak Response = 248730618 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240627A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240627a-31.D Operator : pest2:mhg
Date Inj'd : 6/27/2024 13:03 Instrument : Pest 2
Sample : L2434679-12,42,, Quant Date : 6/27/2024 1:10 pm

Compound #53: 2,4,5,6-Tetrachloro-m-xylene #2



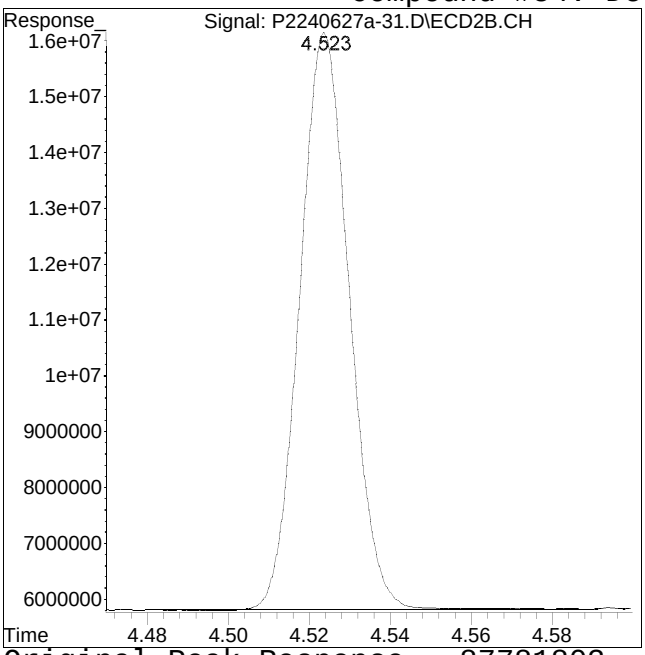


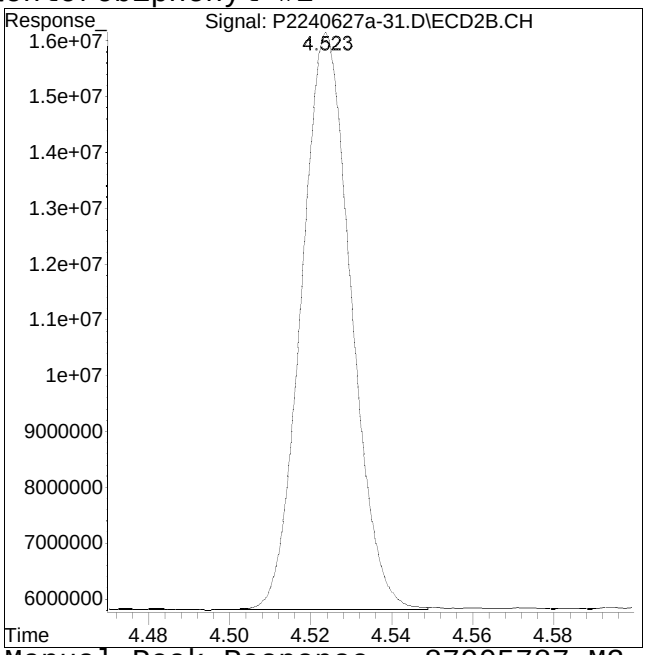
Original Peak Response = 228077049 Manual Peak Response = 225426867 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240627A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240627a-31.D Operator : pest2:mhg
Date Inj'd : 6/27/2024 13:03 Instrument : Pest 2
Sample : L2434679-12,42,, Quant Date : 6/27/2024 1:10 pm

Compound #54: Decachlorobiphenyl #2





Original Peak Response = 87781803 Manual Peak Response = 87905787 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240627A\
Data File : P2240627a-32.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 27 Jun 2024 13:12
Operator : pest2:mhg
Sample : L2434679-14,42,,
Misc : WG1940092,WG1939973,ical21102
ALS Vial : 32 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 27 13:21:50 2024
Quant Method : I:\PCB\Pest2\2024\240627A\P2_pcb_05_06_24_LVI_ugL_ICAL21102.m
Quant Title : pcb
QLast Update : Wed May 08 09:27:21 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PCB\Pest2\2024\240627A\P2240627a-02.D
Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Internal Standards						
1) i 1660_1br2nb	1.161	1.229	364.1E6	247.3E6	25.000	25.000
Standard Area 1 : #1 = 386975749				Recovery =		94.08%
Standard Area 1 : #2 = 277930109				Recovery =		88.99%
14) i 2154_1br2nb	1.161	1.229	364.1E6	247.3E6	25.000	25.000
23) i 4268_1br2nb	1.161	1.229	364.1E6	247.3E6	25.000	25.000
34) i 1248_1br2nb	1.161	1.229	364.1E6	247.3E6	25.000	25.000
40) i 3262_1br2nb	1.161	1.229	364.1E6	247.3E6	25.000	25.000
System Monitoring Compounds						
2) s 2,4,5,6-Tetr	1.445	1.602	346.4E6	229.4E6	18.145	18.824
Spiked Amount 20.000	Range 30 - 150		Recovery =		90.72%	94.12%
3) s Decachlorobi	4.014	4.525	260.8E6	184.2E6	21.145	32.098
Spiked Amount 20.000	Range 30 - 150		Recovery =		105.73%	160.49%#
Target Compounds						
4) l1 1016-1	0.000	0.000	0	0	N.D. d	N.D. d
5) l1 1016-2	0.000	0.000	0	0	N.D.	N.D.
6) l1 1016-3	0.000	0.000	0	0	N.D. d	N.D. d
7) l1 1016-4	0.000	0.000	0	0	N.D. d	N.D. d
8) l1 1016-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1016-1			0	0	N.D.	N.D.
Average 1016-1					0.000	0.000
9) l2 1260-1	0.000	0.000	0	0	N.D. d	N.D. d
10) l2 1260-2	0.000	0.000	0	0	N.D.	N.D.
11) l2 1260-3	0.000	0.000	0	0	N.D.	N.D.
12) l2 1260-4	0.000	0.000	0	0	N.D. d	N.D. d
13) l2 1260-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1260-1			0	0	N.D.	N.D.
Average 1260-1					0.000	0.000
15) l3 1221-2	0.000	0.000	0	0	N.D. d	N.D. d
16) l3 1221-3	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\PCB\Pest2\2024\240627A\
Data File : P2240627a-32.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 27 Jun 2024 13:12
Operator : pest2:mhg
Sample : L2434679-14,42,,
Misc : WG1940092,WG1939973,ical21102
ALS Vial : 32 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 27 13:21:50 2024
Quant Method : I:\PCB\Pest2\2024\240627A\P2_pcb_05_06_24_LVI_ugL_ICAL21102.m
Quant Title : pcb
QLast Update : Wed May 08 09:27:21 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PCB\Pest2\2024\240627A\P2240627a-02.D
Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
17) l3 1221-4	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1221-2			0	0	N.D.	N.D.
Average 1221-2					0.000	0.000
18) l4 1254-1	0.000	0.000	0	0	N.D. d	N.D. d
19) l4 1254-2	0.000	0.000	0	0	N.D. d	N.D. d
20) l4 1254-3	0.000	0.000	0	0	N.D.	N.D.
21) l4 1254-4	0.000	0.000	0	0	N.D. d	N.D. d
22) l4 1254-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1254-1			0	0	N.D.	N.D.
Average 1254-1					0.000	0.000
24) l6 1242-1	0.000	0.000	0	0	N.D. d	N.D. d
25) l6 1242-2	0.000	0.000	0	0	N.D.	N.D.
26) l6 1242-3	0.000	0.000	0	0	N.D. d	N.D. d
27) l6 1242-4	0.000	0.000	0	0	N.D. d	N.D. d
28) l6 1242-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1242-1			0	0	N.D.	N.D.
Average 1242-1					0.000	0.000
29) l9 1268-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l9 1268-2	0.000	0.000	0	0	N.D. d	N.D. d
31) l9 1268-3	0.000	0.000	0	0	N.D. d	N.D. d
32) l9 1268-4	0.000	0.000	0	0	N.D.	N.D.
33) l9 1268-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1268-1			0	0	N.D.	N.D.
Average 1268-1					0.000	0.000
35) l7 1248-1	0.000	0.000	0	0	N.D. d	N.D. d
36) l7 1248-2	0.000	0.000	0	0	N.D. d	N.D. d
37) l7 1248-3	0.000	0.000	0	0	N.D. d	N.D. d
38) l7 1248-4	0.000	0.000	0	0	N.D. d	N.D. d
39) l7 1248-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1248-1			0	0	N.D.	N.D.
Average 1248-1					0.000	0.000
41) l5 1232-1	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\PCB\Pest2\2024\240627A\
Data File : P2240627a-32.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 27 Jun 2024 13:12
Operator : pest2:mhg
Sample : L2434679-14,42,,
Misc : WG1940092,WG1939973,ical21102
ALS Vial : 32 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 27 13:21:50 2024
Quant Method : I:\PCB\Pest2\2024\240627A\P2_pcb_05_06_24_LVI_ugL_ICAL21102.m
Quant Title : pcb
QLast Update : Wed May 08 09:27:21 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PCB\Pest2\2024\240627A\P2240627a-02.D
Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
42) l5 1232-2	0.000	0.000	0	0	N.D.	N.D.
43) l5 1232-3	0.000	0.000	0	0	N.D. d	N.D. d
44) l5 1232-4	0.000	0.000	0	0	N.D. d	N.D. d
45) l5 1232-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1232-1			0	0	N.D.	N.D.
Average 1232-1					0.000	0.000
46) l8 1262-1	0.000	0.000	0	0	N.D.	N.D.
47) l8 1262-2	0.000	0.000	0	0	N.D. d	N.D. d
48) l8 1262-3	0.000	0.000	0	0	N.D.	N.D.
49) l8 1262-4	0.000	0.000	0	0	N.D. d	N.D. d
50) l8 1262-5	0.000	0.000	0	0	N.D.	N.D.
Sum 1262-1			0	0	N.D.	N.D.
Average 1262-1					0.000	0.000
SemiQuant Compounds - Not Calibrated on this Instrument						
Sum 1262-1			0	0	N.D.	N.D.
Average 1262-1					0.000	0.000

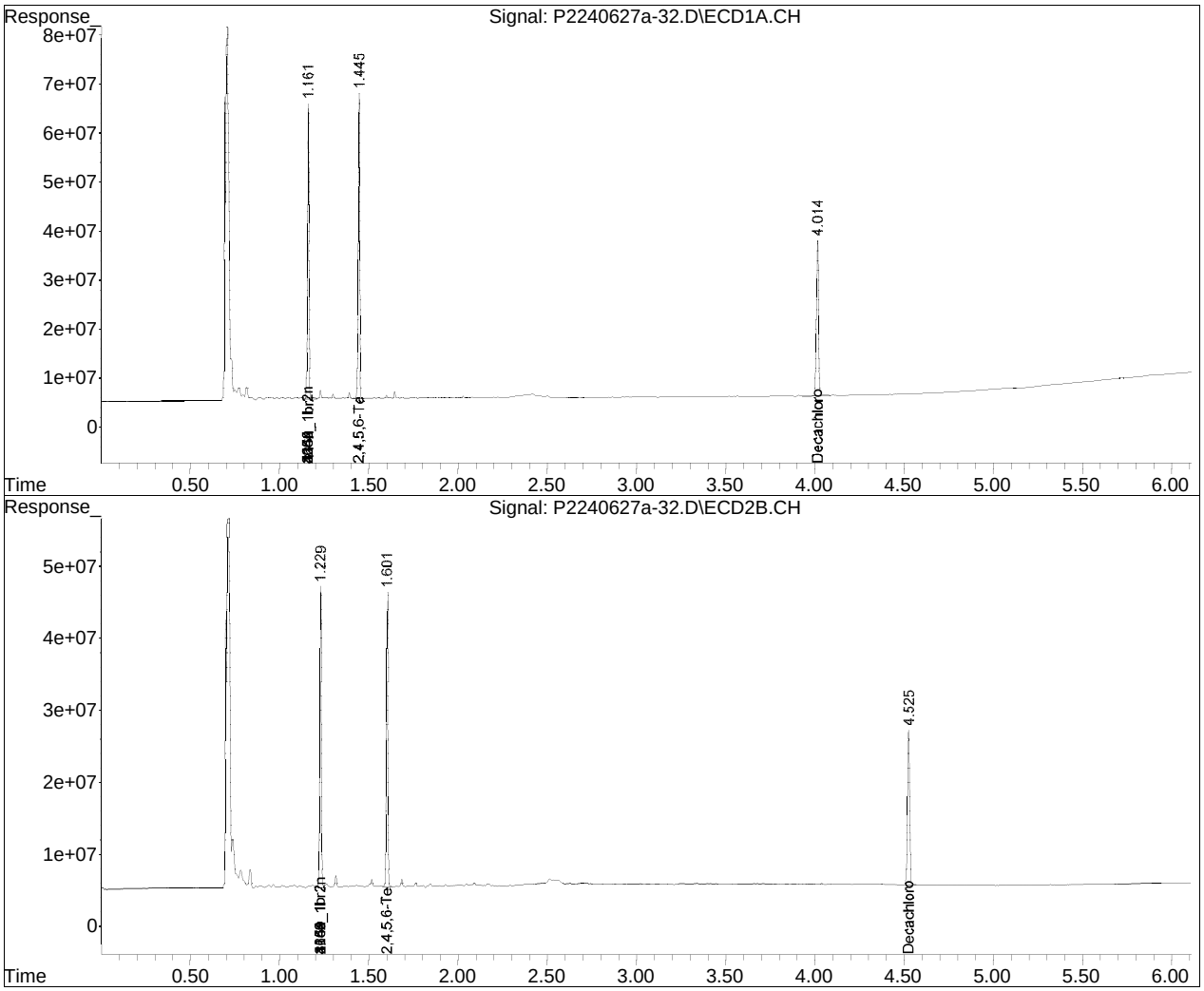
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listedP2240627a-02.D•

Data Path : I:\PCB\Pest2\2024\240627A\
Data File : P2240627a-32.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 27 Jun 2024 13:12
Operator : pest2:mhg
Sample : L2434679-14,42,,
Misc : WG1940092,WG1939973,ical21102
ALS Vial : 32 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 27 13:21:50 2024
Quant Method : I:\PCB\Pest2\2024\240627A\P2_pcb_05_06_24_LVI_ugL_ICAL21102.m
Quant Title : pcb
QLast Update : Wed May 08 09:27:21 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



Manual Integration Report

Data Path	: I:\PCB\Pest2\2024\240627A\	QMethod	: P2_pcb_05_06_24_LVI_ugL_
Data File	: P2240627a-32.D	Operator	: pest2:mhg
Date Inj'd	: 6/27/2024 13:12	Instrument	: Pest 2
Sample	: L2434679-14,42,,	Quant Date	: 6/27/2024 1:21 pm

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240627A\
Data File : P2240627a-39.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 27 Jun 2024 14:31
Operator : pest2:mhg
Sample : L2434679-07,42,, rris
Misc : WG1940092,WG1939973,ical21102
ALS Vial : 39 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 27 14:37:49 2024
Quant Method : I:\PCB\Pest2\2024\240627A\P2_pcb_05_06_24_LVI_ugL_ICAL21102.m
Quant Title : pcb
QLast Update : Wed May 08 09:27:21 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PCB\Pest2\2024\240627A\P2240627a-34.D
Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Internal Standards							
1) i	1660_1br2nb	1.161	1.228	256.2E6	246.9E6	25.000M4	25.000M4
	Standard Area 1 : #1 = 384931703				Recovery =	66.57%	
	Standard Area 1 : #2 = 287680548				Recovery =	85.82%	
14) i	2154_1br2nb	1.161	1.228	256.2E6	246.9E6	25.000M4	25.000M4
23) i	4268_1br2nb	1.161	1.228	256.2E6	246.9E6	25.000M4	25.000M4
34) i	1248_1br2nb	1.161	1.228	256.2E6	246.9E6	25.000M4	25.000M4
40) i	3262_1br2nb	1.161	1.228	256.2E6	246.9E6	25.000M4	25.000M4
System Monitoring Compounds							
2) s	2,4,5,6-Tetr	1.445	1.601	368.7E6	248.5E6	27.441	20.434
	Spiked Amount 20.000	Range 30 - 150			Recovery =	137.21%	102.17%
3) s	Decachlorobi	4.015	4.524	259.5E6	190.0E6	29.888M4	33.166M3
	Spiked Amount 20.000	Range 30 - 150			Recovery =	149.44%	165.83%#
Target Compounds							
4) l1	1016-1	0.000	0.000	0	0	N.D. d	N.D. d
5) l1	1016-2	0.000	0.000	0	0	N.D. d	N.D. d
6) l1	1016-3	0.000	0.000	0	0	N.D. d	N.D. d
7) l1	1016-4	0.000	0.000	0	0	N.D. d	N.D. d
8) l1	1016-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1016-1			0	0	N.D.	N.D.
	Average 1016-1					0.000	0.000
9) l2	1260-1	0.000	0.000	0	0	N.D. d	N.D. d
10) l2	1260-2	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\PCB\Pest2\2024\240627A\
Data File : P2240627a-39.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 27 Jun 2024 14:31
Operator : pest2:mhg
Sample : L2434679-07,42,, rris
Misc : WG1940092,WG1939973,ical21102
ALS Vial : 39 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 27 14:37:49 2024
Quant Method : I:\PCB\Pest2\2024\240627A\P2_pcb_05_06_24_LVI_ugL_ICAL21102.m
Quant Title : pcb
QLast Update : Wed May 08 09:27:21 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PCB\Pest2\2024\240627A\P2240627a-34.D
Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
11) l2 1260-3	0.000	0.000	0	0	N.D. d	N.D. d
12) l2 1260-4	0.000	0.000	0	0	N.D.	N.D.
13) l2 1260-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1260-1			0	0	N.D.	N.D.
Average 1260-1					0.000	0.000
15) l3 1221-2	0.000	0.000	0	0	N.D. d	N.D. d
16) l3 1221-3	0.000	0.000	0	0	N.D. d	N.D. d
17) l3 1221-4	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1221-2			0	0	N.D.	N.D.
Average 1221-2					0.000	0.000
18) l4 1254-1	0.000	0.000	0	0	N.D. d	N.D. d
19) l4 1254-2	0.000	0.000	0	0	N.D. d	N.D. d
20) l4 1254-3	0.000	0.000	0	0	N.D. d	N.D. d
21) l4 1254-4	0.000	0.000	0	0	N.D. d	N.D. d
22) l4 1254-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1254-1			0	0	N.D.	N.D.
Average 1254-1					0.000	0.000
24) l6 1242-1	0.000	0.000	0	0	N.D. d	N.D. d
25) l6 1242-2	0.000	0.000	0	0	N.D. d	N.D. d
26) l6 1242-3	0.000	0.000	0	0	N.D. d	N.D. d
27) l6 1242-4	0.000	0.000	0	0	N.D. d	N.D. d
28) l6 1242-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1242-1			0	0	N.D.	N.D.
Average 1242-1					0.000	0.000
29) l9 1268-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l9 1268-2	0.000	0.000	0	0	N.D. d	N.D. d
31) l9 1268-3	0.000	0.000	0	0	N.D. d	N.D. d
32) l9 1268-4	0.000	0.000	0	0	N.D.	N.D.
33) l9 1268-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1268-1			0	0	N.D.	N.D.
Average 1268-1					0.000	0.000
35) l7 1248-1	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\PCB\Pest2\2024\240627A\
Data File : P2240627a-39.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 27 Jun 2024 14:31
Operator : pest2:mhg
Sample : L2434679-07,42,, rris
Misc : WG1940092,WG1939973,ical21102
ALS Vial : 39 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 27 14:37:49 2024
Quant Method : I:\PCB\Pest2\2024\240627A\P2_pcb_05_06_24_LVI_ugL_ICAL21102.m
Quant Title : pcb
QLast Update : Wed May 08 09:27:21 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PCB\Pest2\2024\240627A\P2240627a-34.D
Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
36) l7 1248-2	0.000	0.000	0	0	N.D. d	N.D. d
37) l7 1248-3	0.000	0.000	0	0	N.D. d	N.D. d
38) l7 1248-4	0.000	0.000	0	0	N.D. d	N.D. d
39) l7 1248-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1248-1			0	0	N.D.	N.D.
Average 1248-1					0.000	0.000
41) l5 1232-1	0.000	0.000	0	0	N.D. d	N.D. d
42) l5 1232-2	0.000	0.000	0	0	N.D. d	N.D. d
43) l5 1232-3	0.000	0.000	0	0	N.D. d	N.D. d
44) l5 1232-4	0.000	0.000	0	0	N.D. d	N.D. d
45) l5 1232-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1232-1			0	0	N.D.	N.D.
Average 1232-1					0.000	0.000
46) l8 1262-1	0.000	0.000	0	0	N.D. d	N.D. d
47) l8 1262-2	0.000	0.000	0	0	N.D. d	N.D. d
48) l8 1262-3	0.000	0.000	0	0	N.D. d	N.D. d
49) l8 1262-4	0.000	0.000	0	0	N.D.	N.D.
50) l8 1262-5	0.000	0.000	0	0	N.D.	N.D.
Sum 1262-1			0	0	N.D.	N.D.
Average 1262-1					0.000	0.000
SemiQuant Compounds - Not Calibrated on this Instrument						
Sum 1262-1			0	0	N.D.	N.D.
Average 1262-1					0.000	0.000

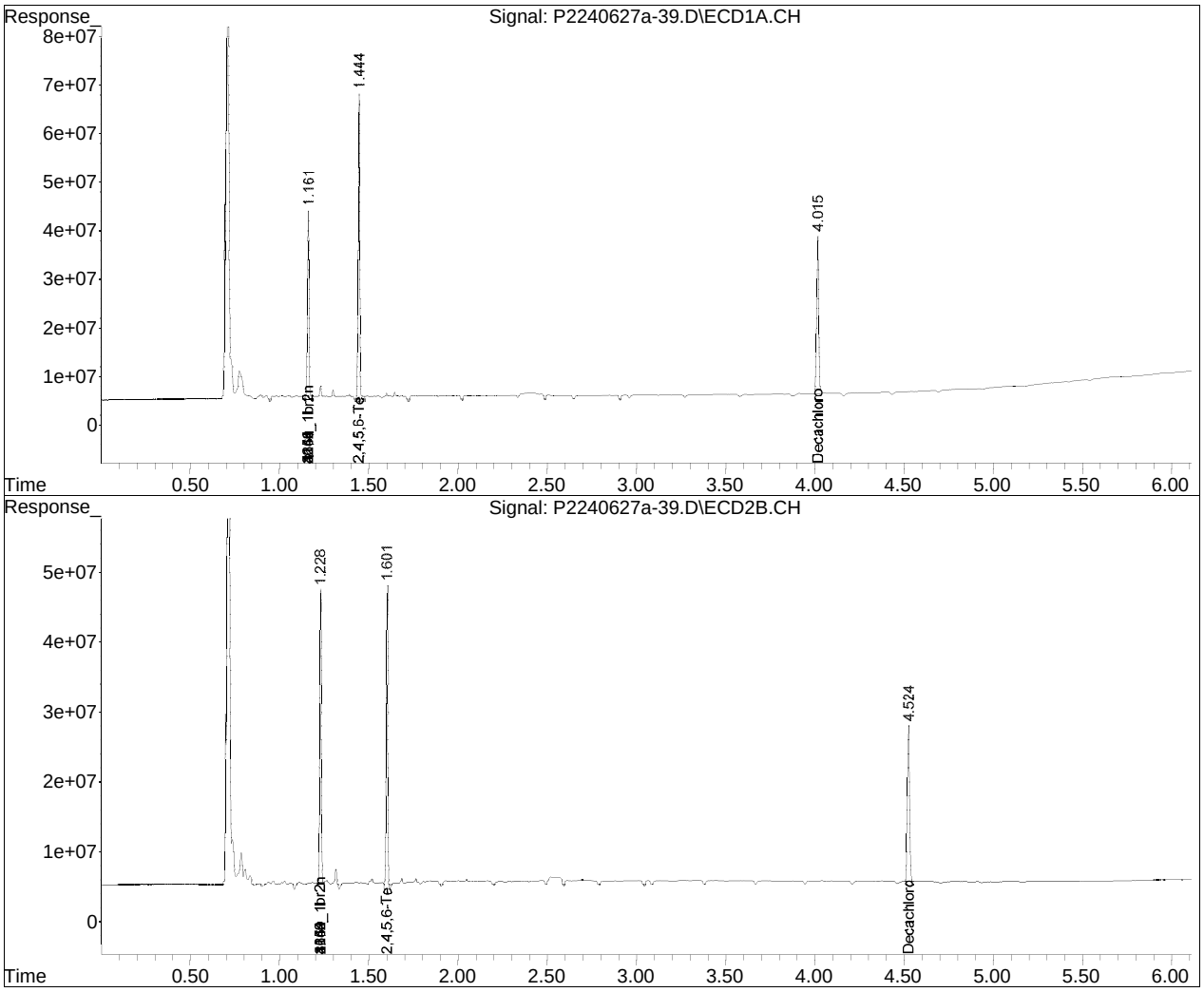
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listedP2240627a-34.D•

Data Path : I:\PCB\Pest2\2024\240627A\
Data File : P2240627a-39.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 27 Jun 2024 14:31
Operator : pest2:mhg
Sample : L2434679-07,42,, rris
Misc : WG1940092,WG1939973,ical21102
ALS Vial : 39 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 27 14:37:49 2024
Quant Method : I:\PCB\Pest2\2024\240627A\P2_pcb_05_06_24_LVI_ugL_ICAL21102.m
Quant Title : pcb
QLast Update : Wed May 08 09:27:21 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

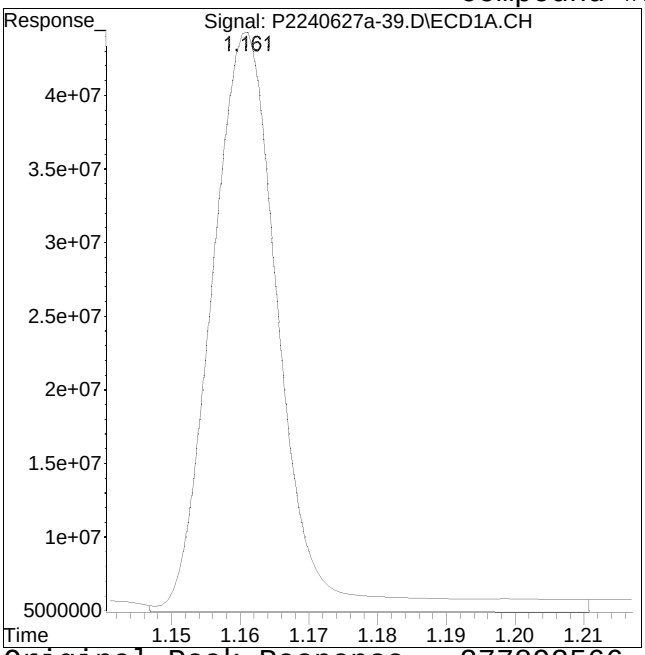
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

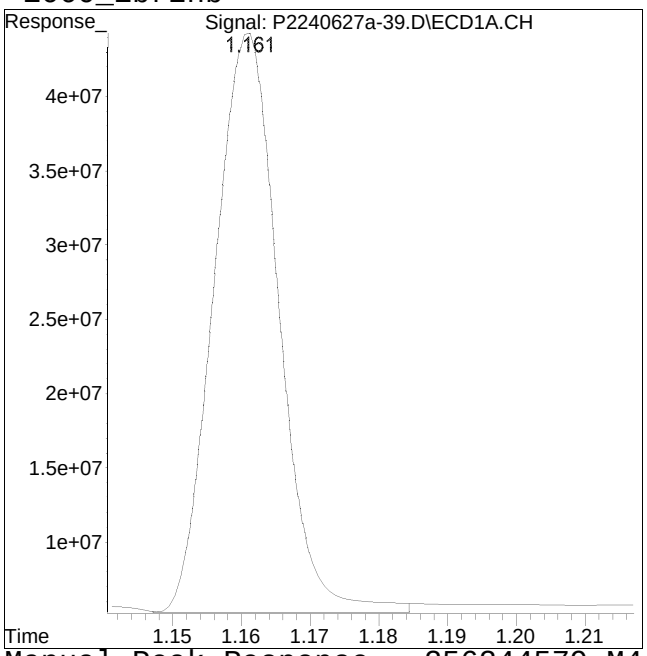


Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240627A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240627a-39.D Operator : pest2:mhg
Date Inj'd : 6/27/2024 14:31 Instrument : Pest 2
Sample : L2434679-07,42,, rris Quant Date : 6/27/2024 2:37 pm

Compound #1: 1660_1br2nb



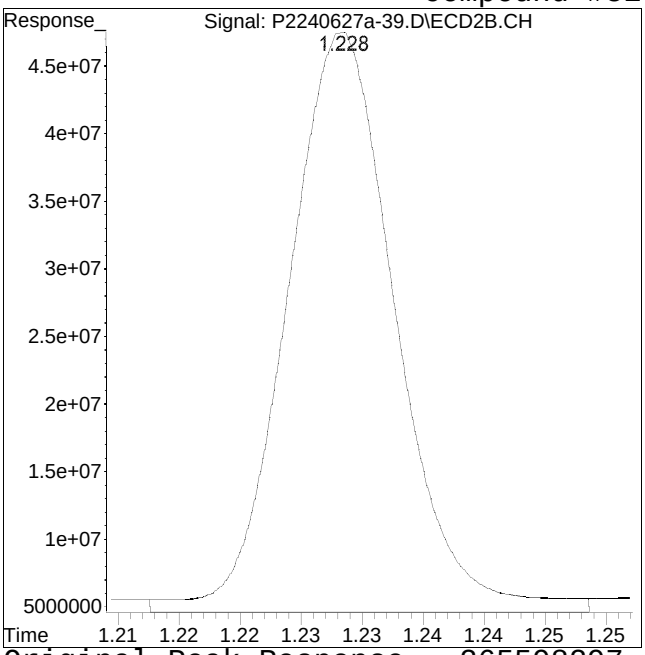


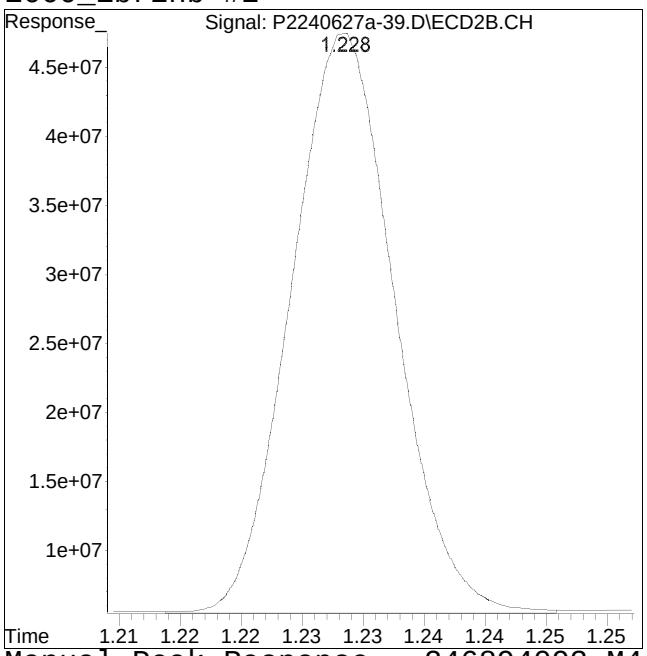
Original Peak Response = 277892566 Manual Peak Response = 256244579 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240627A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240627a-39.D Operator : pest2:mhg
Date Inj'd : 6/27/2024 14:31 Instrument : Pest 2
Sample : L2434679-07,42,, rris Quant Date : 6/27/2024 2:37 pm

Compound #52: 1660_1br2nb #2



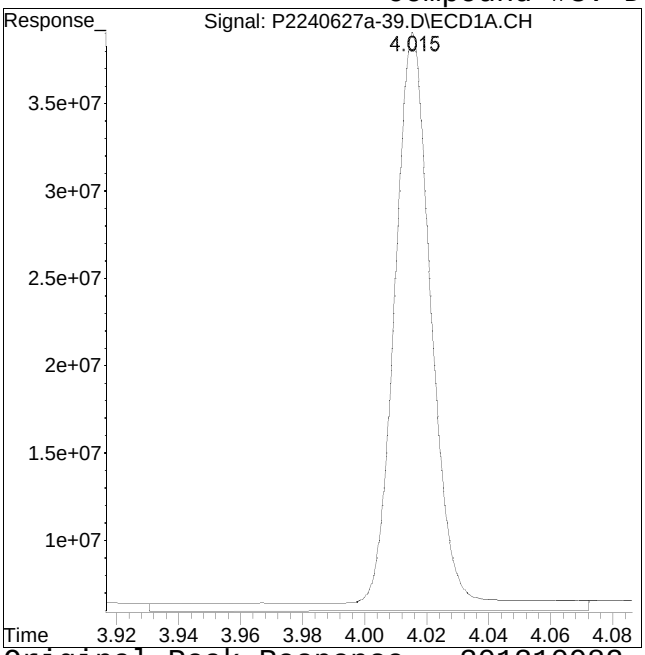


Original Peak Response = 265598297 Manual Peak Response = 246894093 M4
M4 = Poor automated baseline construction.

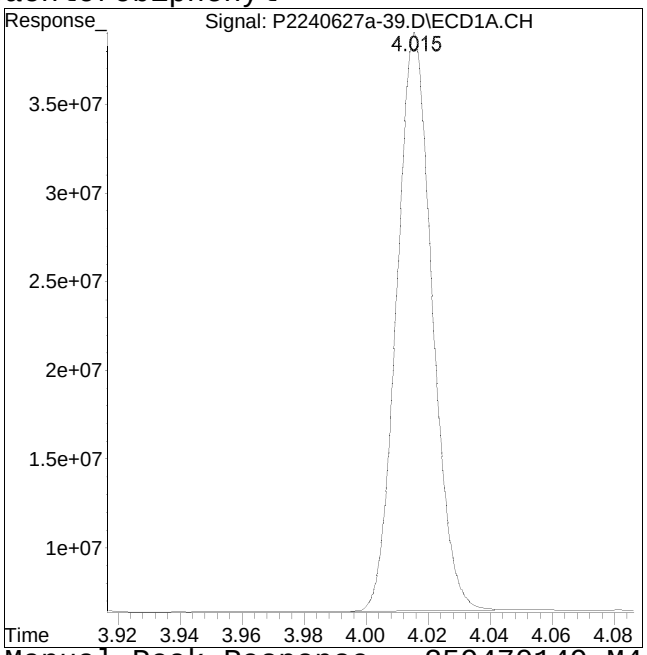
Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240627A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240627a-39.D Operator : pest2:mhg
Date Inj'd : 6/27/2024 14:31 Instrument : Pest 2
Sample : L2434679-07,42,, rris Quant Date : 6/27/2024 2:37 pm

Compound #3: Decachlorobiphenyl



Original Peak Response = 301310982



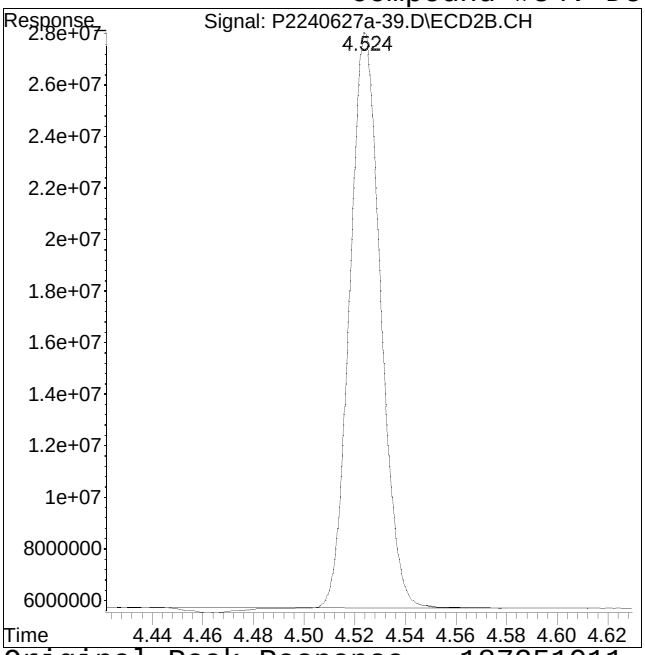
Manual Peak Response = 259470149 M4

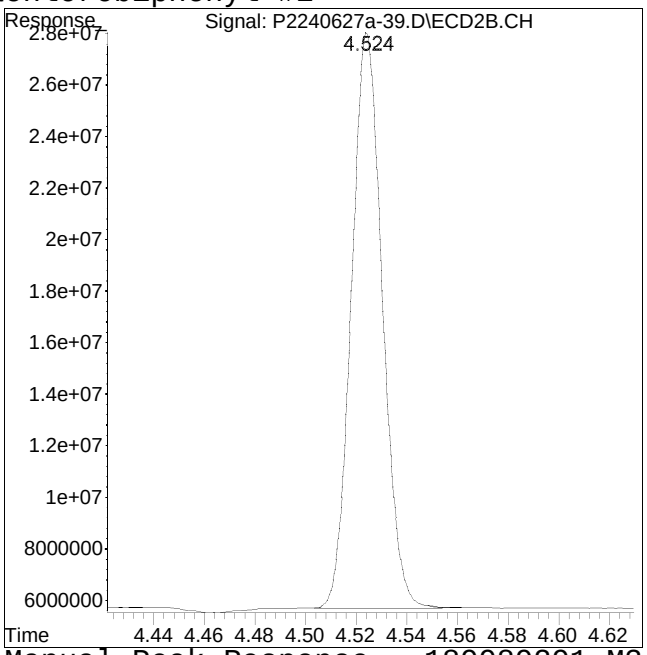
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240627A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240627a-39.D Operator : pest2:mhg
Date Inj'd : 6/27/2024 14:31 Instrument : Pest 2
Sample : L2434679-07,42,, rris Quant Date : 6/27/2024 2:37 pm

Compound #54: Decachlorobiphenyl #2





Original Peak Response = 187251911 Manual Peak Response = 189989291 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Aroclor Standards Data

Initial Calibration

Initial Calibration Summary
Form 6
PCBs

Client	**: Alpha Geoscience**	**Lab Number**	**: L2434679**
Project Name	**: RANCO MINE**	**Project Number**	**: 12123**
Instrument ID	**: PEST2**	**Ical Ref**	**: ICAL21102**
Calibration dates	**: 05/06/24 20:49 05/07/24 15:31**		

Calibration Files
1 =P2240506i-19.D 2 =P2240506i-08.D 3 =P2240506i-09.D 4 =P2240506i-06.D 5 =P2240506i-11.D
6 =P2240506i-12.D

		Compound	1	2	3	4	5	6	Avg	%RSD
1)	i	1660_1br2nb	ISTD							
2)	s	2,4,5,6-Tetra	1.008	1.224	1.205	1.670	1.335	1.423	1.311	17.16
3)	s	Decachlorobip	0.753	0.820	0.780	1.047	0.825	0.856	0.847	12.35
4)	l1	1016-1	0.020	0.023	0.022	0.027	0.021	0.021	0.022	11.84
5)	l1	1016-2	0.038	0.051	0.050	0.061	0.047	0.048	0.049	14.92
6)	l1	1016-3	0.079	0.098	0.096	0.128	0.101	0.105	0.101	15.70
7)	l1	1016-4	0.032	0.040	0.039	0.050	0.039	0.041	0.040	14.48
8)	l1	1016-5	0.039	0.044	0.042	0.055	0.043	0.045	0.045	11.78
9)	l2	1260-1	0.057	0.065	0.061	0.079	0.061	0.064	0.065	11.55
10)	l2	1260-2	0.081	0.096	0.095	0.120	0.094	0.098	0.097	12.77
11)	l2	1260-3	0.050	0.058	0.060	0.074	0.058	0.062	0.060	13.00
12)	l2	1260-4	0.105	0.125	0.123	0.162	0.128	0.134	0.130	14.38
13)	l2	1260-5	0.075	0.086	0.085	0.113	0.089	0.095	0.091	14.02
14)	i	2154_1br2nb	ISTD							
15)	l3	1221-2				0.015			0.015	0.00
16)	l3	1221-3				0.009			0.009	0.00
17)	l3	1221-4				0.035			0.035	0.00
18)	l4	1254-1				0.050			0.050	0.00
19)	l4	1254-2				0.090			0.090	0.00
20)	l4	1254-3				0.095			0.095	0.00
21)	l4	1254-4				0.067			0.067	0.00
22)	l4	1254-5				0.091			0.091	0.00
23)	i	4268_1br2nb	ISTD							
24)	l6	1242-1				0.019			0.019	0.00
25)	l6	1242-2				0.040			0.040	0.00
26)	l6	1242-3				0.087			0.087	0.00
27)	l6	1242-4				0.035			0.035	0.00
28)	l6	1242-5				0.027			0.027	0.00
29)	l9	1268-1				0.181			0.181	0.00
30)	l9	1268-2				0.167			0.167	0.00
31)	l9	1268-3				0.133			0.133	0.00
32)	l9	1268-4				0.058			0.058	0.00
33)	l9	1268-5				0.392			0.392	0.00
34)	i	1248_1br2nb	ISTD							
35)	l7	1248-1				0.057			0.057	0.00
36)	l7	1248-2				0.074			0.074	0.00

Initial Calibration Summary
Form 6
PCBs

Client	**: Alpha Geoscience**	**Lab Number**	**: L2434679**
Project Name	**: RANCO MINE**	**Project Number**	**: 12123**
Instrument ID	**: PEST2**	**Ical Ref**	**: ICAL21102**
Calibration dates	**: 05/06/24 20:49 05/07/24 15:31**		

Calibration Files

1 =P2240506i-19.D 2 =P2240506i-08.D 3 =P2240506i-09.D 4 =P2240506i-06.D 5 =P2240506i-11.D

6 =P2240506i-12.D

	Compound	1	2	3	4	5	6	Avg	%RSD
37) l7	1248-3				0.065			0.065	0.00
38) l7	1248-4				0.058			0.058	0.00
39) l7	1248-5				0.050			0.050	0.00
40) i	3262_1br2nb				----------ISTD----------				
41) l5	1232-1				0.026			0.026	0.00
42) l5	1232-2				0.024			0.024	0.00
43) l5	1232-3				0.050			0.050	0.00
44) l5	1232-4				0.020			0.020	0.00
45) l5	1232-5				0.015			0.015	0.00
46) l8	1262-1				0.070			0.070	0.00
47) l8	1262-2				0.091			0.091	0.00
48) l8	1262-3				0.079			0.079	0.00
49) l8	1262-4				0.160			0.160	0.00
50) l8	1262-5				0.050			0.050	0.00

Initial Calibration Summary
Form 6
PCBs

Client	**: Alpha Geoscience**	**Lab Number**	**: L2434679**
Project Name	**: RANCO MINE**	**Project Number**	**: 12123**
Instrument ID	**: PEST2**	**Ical Ref**	**: ICAL21102**
Calibration dates	**: 05/06/24 20:49 05/07/24 15:31**		

Signal #2 Calibration Files

1 =P2240506i-19.D 2 =P2240506i-08.D 3 =P2240506i-09.D 4 =P2240506i-06.D 5 =P2240506i-11.D

6 =P2240506i-12.D

		Compound	1	2	3	4	5	6	Avg	%RSD
1)	i	1660_1br2nb	ISTD							
2)	s	2,4,5,6-Tetra	1.039	1.239	1.160	1.535	1.192	1.225	1.232	13.40
3)	s	Decachlorobip	0.538	0.629	0.572	0.686	0.533	0.523	0.580	11.12
4)	l1	1016-1	0.019	0.023	0.021	0.026	0.019	0.019	0.021	12.94
5)	l1	1016-2	0.041	0.051	0.046	0.056	0.042	0.041	0.046	13.46
6)	l1	1016-3	0.086	0.097	0.088	0.112	0.086	0.085	0.092	11.65
7)	l1	1016-4	0.027	0.038	0.034	0.043	0.032	0.031	0.034	16.38
8)	l1	1016-5	0.025	0.030	0.030	0.036	0.026	0.026	0.029	13.37
9)	l2	1260-1	0.073	0.050	0.049	0.060	0.048	0.043	0.054	19.93
10)	l2	1260-2	0.066	0.063	0.062	0.071	0.057	0.051	0.062	11.13
11)	l2	1260-3	0.041	0.053	0.049	0.057	0.045	0.043	0.048	13.12
12)	l2	1260-4	0.087	0.104	0.094	0.116	0.090	0.087	0.096	11.93
13)	l2	1260-5	0.054	0.072	0.066	0.081	0.063	0.061	0.066	14.19
14)	i	2154_1br2nb	ISTD							
15)	l3	1221-2				0.015			0.015	0.00
16)	l3	1221-3				0.009			0.009	0.00
17)	l3	1221-4				0.034			0.034	0.00
18)	l4	1254-1				0.046			0.046	0.00
19)	l4	1254-2				0.052			0.052	0.00
20)	l4	1254-3				0.078			0.078	0.00
21)	l4	1254-4				0.048			0.048	0.00
22)	l4	1254-5				0.071			0.071	0.00
23)	i	4268_1br2nb	ISTD							
24)	l6	1242-1				0.017			0.017	0.00
25)	l6	1242-2				0.038			0.038	0.00
26)	l6	1242-3				0.073			0.073	0.00
27)	l6	1242-4				0.029			0.029	0.00
28)	l6	1242-5				0.022			0.022	0.00
29)	l9	1268-1				0.119			0.119	0.00
30)	l9	1268-2				0.110			0.110	0.00
31)	l9	1268-3				0.090			0.090	0.00
32)	l9	1268-4				0.039			0.039	0.00
33)	l9	1268-5				0.245			0.245	0.00
34)	i	1248_1br2nb	ISTD							
35)	l7	1248-1				0.052			0.052	0.00
36)	l7	1248-2				0.034			0.034	0.00

Initial Calibration Summary
Form 6
PCBs

Client	**: Alpha Geoscience**	**Lab Number**	**: L2434679**
Project Name	**: RANCO MINE**	**Project Number**	**: 12123**
Instrument ID	**: PEST2**	**Ical Ref**	**: ICAL21102**
Calibration dates	**: 05/06/24 20:49 05/07/24 15:31**		

Signal #2 Calibration Files

1 =P2240506i-19.D 2 =P2240506i-08.D 3 =P2240506i-09.D 4 =P2240506i-06.D 5 =P2240506i-11.D

6 =P2240506i-12.D

	Compound	1	2	3	4	5	6	Avg	%RSD
37) l7	1248-3				0.043			0.043	0.00
38) l7	1248-4				0.048			0.048	0.00
39) l7	1248-5				0.054			0.054	0.00
40) i	3262_1br2nb				----------ISTD----------				
41) l5	1232-1				0.025			0.025	0.00
42) l5	1232-2				0.025			0.025	0.00
43) l5	1232-3				0.045			0.045	0.00
44) l5	1232-4				0.018			0.018	0.00
45) l5	1232-5				0.013			0.013	0.00
46) l8	1262-1				0.049			0.049	0.00
47) l8	1262-2				0.065			0.065	0.00
48) l8	1262-3				0.059			0.059	0.00
49) l8	1262-4				0.110			0.110	0.00
50) l8	1262-5				0.039			0.039	0.00

Response Factor Report Pest 2

Method Path : I:\PCB\Pest2\2024\240506I\
Method File : P2_pcb_05_06_24_LVI_ugL_ICAL.m
Title : pcb
Last Update : Wed May 08 09:27:21 2024
Response Via : Initial Calibration

Calibration Files
1 =P2240506i-19.D 2 =P2240506i-08.D 3 =P2240506i-09.D 4 =P2240506i-06.D 5 =P2240506i-11.D
6 =P2240506i-12.D

		Compound	1	2	3	4	5	6	Avg	%RSD
1)	i	1660_1br2nb	----------ISTD----------							
2)	s	2,4,5,6-Tetra...	1.008	1.224	1.205	1.670	1.335	1.423	1.311	17.16
3)	s	Decachlorobip...	0.753	0.820	0.780	1.047	0.825	0.856	0.847	12.35
4)	l1	1016-1	0.020	0.023	0.022	0.027	0.021	0.021	0.022	11.84
5)	l1	1016-2	0.038	0.051	0.050	0.061	0.047	0.048	0.049	14.92
6)	l1	1016-3	0.079	0.098	0.096	0.128	0.101	0.105	0.101	15.70
7)	l1	1016-4	0.032	0.040	0.039	0.050	0.039	0.041	0.040	14.48
8)	l1	1016-5	0.039	0.044	0.042	0.055	0.043	0.045	0.045	11.78
9)	l2	1260-1	0.057	0.065	0.061	0.079	0.061	0.064	0.065	11.55
10)	l2	1260-2	0.081	0.096	0.095	0.120	0.094	0.098	0.097	12.77
11)	l2	1260-3	0.050	0.058	0.060	0.074	0.058	0.062	0.060	13.00
12)	l2	1260-4	0.105	0.125	0.123	0.162	0.128	0.134	0.130	14.38
13)	l2	1260-5	0.075	0.086	0.085	0.113	0.089	0.095	0.091	14.02
14)	i	2154_1br2nb	----------ISTD----------							
15)	l3	1221-2				0.015			0.015	0.00
16)	l3	1221-3				0.009			0.009	0.00
17)	l3	1221-4				0.035			0.035	0.00
18)	l4	1254-1				0.050			0.050	0.00
19)	l4	1254-2				0.090			0.090	0.00
20)	l4	1254-3				0.095			0.095	0.00
21)	l4	1254-4				0.067			0.067	0.00
22)	l4	1254-5				0.091			0.091	0.00
23)	i	4268_1br2nb	----------ISTD----------							
24)	l6	1242-1				0.019			0.019	0.00
25)	l6	1242-2				0.040			0.040	0.00
26)	l6	1242-3				0.087			0.087	0.00
27)	l6	1242-4				0.035			0.035	0.00
28)	l6	1242-5				0.027			0.027	0.00
29)	l9	1268-1				0.181			0.181	0.00

Response Factor Report Pest 2

Method Path : I:\PCB\Pest2\2024\240506I\
Method File : P2_pcb_05_06_24_LVI_ugL_ICAL.m
Title : pcb
Last Update : Wed May 08 09:27:21 2024
Response Via : Initial Calibration

Calibration Files
1 =P2240506i-19.D 2 =P2240506i-08.D 3 =P2240506i-09.D 4 =P2240506i-06.D 5 =P2240506i-11.D
6 =P2240506i-12.D

		Compound	1	2	3	4	5	6	Avg	%RSD
30)	l9	1268-2				0.167			0.167	0.00
31)	l9	1268-3				0.133			0.133	0.00
32)	l9	1268-4				0.058			0.058	0.00
33)	l9	1268-5				0.392			0.392	0.00
34)	i	1248_1br2nb	----------ISTD----------							
35)	l7	1248-1				0.057			0.057	0.00
36)	l7	1248-2				0.074			0.074	0.00
37)	l7	1248-3				0.065			0.065	0.00
38)	l7	1248-4				0.058			0.058	0.00
39)	l7	1248-5				0.050			0.050	0.00
40)	i	3262_1br2nb	----------ISTD----------							
41)	l5	1232-1				0.026			0.026	0.00
42)	l5	1232-2				0.024			0.024	0.00
43)	l5	1232-3				0.050			0.050	0.00
44)	l5	1232-4				0.020			0.020	0.00
45)	l5	1232-5				0.015			0.015	0.00
46)	l8	1262-1				0.070			0.070	0.00
47)	l8	1262-2				0.091			0.091	0.00
48)	l8	1262-3				0.079			0.079	0.00
49)	l8	1262-4				0.160			0.160	0.00
50)	l8	1262-5				0.050			0.050	0.00

Signal #2 Calibration Files
1 =P2240506i-19.D 2 =P2240506i-08.D 3 =P2240506i-09.D 4 =P2240506i-06.D 5 =P2240506i-11.D
6 =P2240506i-12.D

		Compound	1	2	3	4	5	6	Avg	%RSD
1)	i	1660_1br2nb	----------ISTD----------							
2)	s	2,4,5,6-Tetra...	1.039	1.239	1.160	1.535	1.192	1.225	1.232	13.40

Response Factor Report Pest 2

Method Path : I:\PCB\Pest2\2024\240506I\
Method File : P2_pcb_05_06_24_LVI_ugL_ICAL.m
Title : pcb
Last Update : Wed May 08 09:27:21 2024
Response Via : Initial Calibration

Calibration Files
1 =P2240506i-19.D 2 =P2240506i-08.D 3 =P2240506i-09.D 4 =P2240506i-06.D 5 =P2240506i-11.D
6 =P2240506i-12.D

		Compound	1	2	3	4	5	6	Avg	%RSD
3)	s	Decachlorobip...	0.538	0.629	0.572	0.686	0.533	0.523	0.580	11.12
4)	l1	1016-1	0.019	0.023	0.021	0.026	0.019	0.019	0.021	12.94
5)	l1	1016-2	0.041	0.051	0.046	0.056	0.042	0.041	0.046	13.46
6)	l1	1016-3	0.086	0.097	0.088	0.112	0.086	0.085	0.092	11.65
7)	l1	1016-4	0.027	0.038	0.034	0.043	0.032	0.031	0.034	16.38
8)	l1	1016-5	0.025	0.030	0.030	0.036	0.026	0.026	0.029	13.37
9)	l2	1260-1	0.073	0.050	0.049	0.060	0.048	0.043	0.054	19.93
10)	l2	1260-2	0.066	0.063	0.062	0.071	0.057	0.051	0.062	11.13
11)	l2	1260-3	0.041	0.053	0.049	0.057	0.045	0.043	0.048	13.12
12)	l2	1260-4	0.087	0.104	0.094	0.116	0.090	0.087	0.096	11.93
13)	l2	1260-5	0.054	0.072	0.066	0.081	0.063	0.061	0.066	14.19
14)	i	2154_1br2nb	----------ISTD----------							
15)	l3	1221-2				0.015			0.015	0.00
16)	l3	1221-3				0.009			0.009	0.00
17)	l3	1221-4				0.034			0.034	0.00
18)	l4	1254-1				0.046			0.046	0.00
19)	l4	1254-2				0.052			0.052	0.00
20)	l4	1254-3				0.078			0.078	0.00
21)	l4	1254-4				0.048			0.048	0.00
22)	l4	1254-5				0.071			0.071	0.00
23)	i	4268_1br2nb	----------ISTD----------							
24)	l6	1242-1				0.017			0.017	0.00
25)	l6	1242-2				0.038			0.038	0.00
26)	l6	1242-3				0.073			0.073	0.00
27)	l6	1242-4				0.029			0.029	0.00
28)	l6	1242-5				0.022			0.022	0.00
29)	l9	1268-1				0.119			0.119	0.00
30)	l9	1268-2				0.110			0.110	0.00
31)	l9	1268-3				0.090			0.090	0.00
32)	l9	1268-4				0.039			0.039	0.00
33)	l9	1268-5				0.245			0.245	0.00

Response Factor Report Pest 2

Method Path : I:\PCB\Pest2\2024\240506I\
Method File : P2_pcb_05_06_24_LVI_ugL_ICAL.m
Title : pcb
Last Update : Wed May 08 09:27:21 2024
Response Via : Initial Calibration

Calibration Files
1 =P2240506i-19.D 2 =P2240506i-08.D 3 =P2240506i-09.D 4 =P2240506i-06.D 5 =P2240506i-11.D
6 =P2240506i-12.D

		Compound	1	2	3	4	5	6	Avg	%RSD
34)	i	1248_1br2nb	----------ISTD----------							
35)	l7	1248-1				0.052			0.052	0.00
36)	l7	1248-2				0.034			0.034	0.00
37)	l7	1248-3				0.043			0.043	0.00
38)	l7	1248-4				0.048			0.048	0.00
39)	l7	1248-5				0.054			0.054	0.00
40)	i	3262_1br2nb	----------ISTD----------							
41)	l5	1232-1				0.025			0.025	0.00
42)	l5	1232-2				0.025			0.025	0.00
43)	l5	1232-3				0.045			0.045	0.00
44)	l5	1232-4				0.018			0.018	0.00
45)	l5	1232-5				0.013			0.013	0.00
46)	l8	1262-1				0.049			0.049	0.00
47)	l8	1262-2				0.065			0.065	0.00
48)	l8	1262-3				0.059			0.059	0.00
49)	l8	1262-4				0.110			0.110	0.00
50)	l8	1262-5				0.039			0.039	0.00

(#) = Out of Range

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240506I\
Data File : P2240506i-03.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 06 May 2024 8:49 pm
Operator : pest2:rmp
Sample : il44268,42e,,pp 11454
Misc : WG1918477,,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 3 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 07 15:41:02 2024
Quant Method : I:\PCB\Pest2\2024\240506I\P2_pcb_05_06_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Tue May 07 15:40:50 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1660_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
14) i	2154_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
23) i	4268_1br2nb	1.158	1.226	376.1E6	277.5E6	25.000M4	25.000M4
34) i	1248_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
40) i	3262_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount 20.000	Range 30 - 150		Recovery =		0.00%#	0.00%#
3) s	Decachlorobi	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount 20.000	Range 30 - 150		Recovery =		0.00%#	0.00%#
	Target Compounds						
4) l1	1016-1	0.000	0.000	0	0	N.D. d	N.D. d
5) l1	1016-2	0.000	0.000	0	0	N.D. d	N.D. d
6) l1	1016-3	0.000	0.000	0	0	N.D. d	N.D. d
7) l1	1016-4	0.000	0.000	0	0	N.D. d	N.D. d
8) l1	1016-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1016-1			0	0	N.D.	N.D.
	Average 1016-1					0.000	0.000
9) l2	1260-1	0.000	0.000	0	0	N.D. d	N.D. d
10) l2	1260-2	0.000	0.000	0	0	N.D. d	N.D. d
11) l2	1260-3	0.000	0.000	0	0	N.D. d	N.D. d
12) l2	1260-4	0.000	0.000	0	0	N.D. d	N.D. d
13) l2	1260-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1260-1			0	0	N.D.	N.D.
	Average 1260-1					0.000	0.000
15) l3	1221-2	0.000	0.000	0	0	N.D. d	N.D. d
16) l3	1221-3	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240506I\
Data File : P2240506i-03.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 06 May 2024 8:49 pm
Operator : pest2:rmp
Sample : il44268,42e,,pp 11454
Misc : WG1918477,,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 3 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 07 15:41:02 2024
Quant Method : I:\PCB\Pest2\2024\240506I\P2_pcb_05_06_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Tue May 07 15:40:50 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
17) l3	1221-4	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1221-2			0	0	N.D.	N.D.
Average	1221-2					0.000	0.000
18) l4	1254-1	0.000	0.000	0	0	N.D. d	N.D. d
19) l4	1254-2	0.000	0.000	0	0	N.D. d	N.D. d
20) l4	1254-3	0.000	0.000	0	0	N.D. d	N.D. d
21) l4	1254-4	0.000	0.000	0	0	N.D. d	N.D. d
22) l4	1254-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1254-1			0	0	N.D.	N.D.
Average	1254-1					0.000	0.000
24) l6	1242-1	1.584	1.803	70147651	48400578	248.875	249.806
25) l6	1242-2	1.726	1.975	151.2E6	105.3E6	248.875	249.806
26) l6	1242-3	1.915	2.176	325.9E6	201.7E6	248.875	249.806
27) l6	1242-4	1.970	2.236	130.4E6	81145843	248.875	249.806
28) l6	1242-5	2.324	2.622	101.4E6	60532235	248.875	249.806
Sum	1242-1			779.0E6	497.1E6	1244.373	1249.031
Average	1242-1					248.875	249.806
29) l9	1268-1	3.452	3.878	679.3E6	329.4E6	248.875	249.806
30) l9	1268-2	3.473	3.904	626.5E6	304.6E6	248.875	249.806
31) l9	1268-3	3.575	4.046	499.6E6	249.5E6	248.875	249.806
32) l9	1268-4	3.763	4.198	219.2E6	108.5E6	248.875	249.806
33) l9	1268-5	3.917	4.384	1476.1E6	679.6E6	248.875	249.806
Sum	1268-1			3500.7E6	1671.5E6	N.D.	N.D. D
Average	1268-1					248.875	249.806
35) l7	1248-1	0.000	0.000	0	0	N.D. d	N.D. d
36) l7	1248-2	0.000	0.000	0	0	N.D. d	N.D. d
37) l7	1248-3	0.000	0.000	0	0	N.D. d	N.D. d
38) l7	1248-4	0.000	0.000	0	0	N.D. d	N.D. d
39) l7	1248-5	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240506I\
Data File : P2240506i-03.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 06 May 2024 8:49 pm
Operator : pest2:rmp
Sample : il44268,42e,,pp 11454
Misc : WG1918477,,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 3 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 07 15:41:02 2024
Quant Method : I:\PCB\Pest2\2024\240506I\P2_pcb_05_06_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Tue May 07 15:40:50 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Sum	1248-1			0	0	N.D.	N.D.
Average	1248-1					0.000	0.000
41) l5	1232-1	0.000	0.000	0	0	N.D. d	N.D. d
42) l5	1232-2	0.000	0.000	0	0	N.D. d	N.D. d
43) l5	1232-3	0.000	0.000	0	0	N.D. d	N.D. d
44) l5	1232-4	0.000	0.000	0	0	N.D. d	N.D. d
45) l5	1232-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1232-1			0	0	N.D.	N.D.
Average	1232-1					0.000	0.000
46) l8	1262-1	0.000	0.000	0	0	N.D. d	N.D. d
47) l8	1262-2	0.000	0.000	0	0	N.D. d	N.D. d
48) l8	1262-3	0.000	0.000	0	0	N.D. d	N.D. d
49) l8	1262-4	0.000	0.000	0	0	N.D. d	N.D. d
50) l8	1262-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1262-1			0	0	N.D.	N.D.
Average	1262-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	1262-1			0	0	N.D.	N.D.
Average	1262-1					0.000	0.000

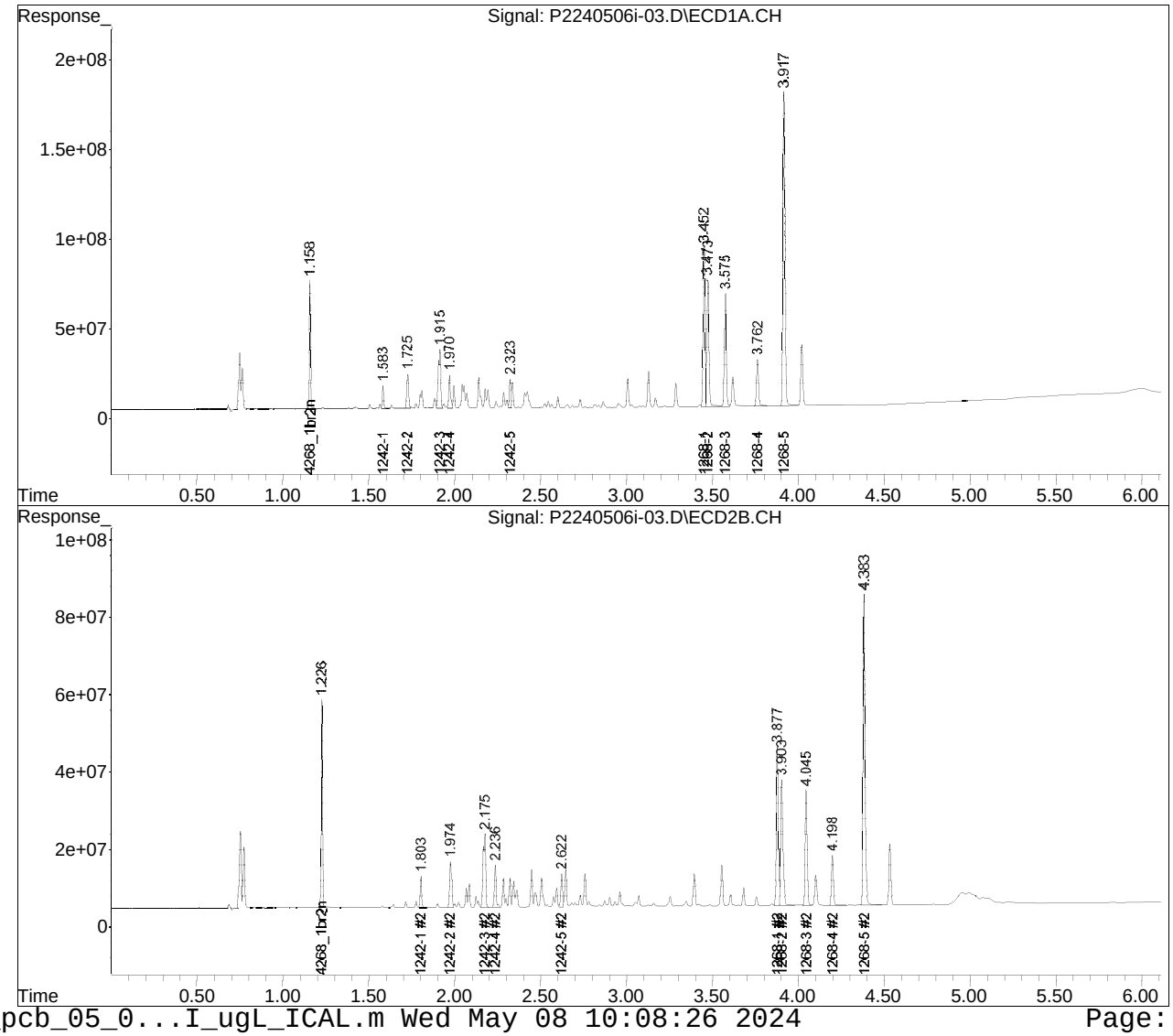
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PCB\Pest2\2024\240506I\
Data File : P2240506i-03.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 06 May 2024 8:49 pm
Operator : pest2:rmp
Sample : il44268,42e,,pp 11454
Misc : WG1918477,,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 3 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 07 15:41:02 2024
Quant Method : I:\PCB\Pest2\2024\240506I\P2_pcb_05_06_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Tue May 07 15:40:50 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

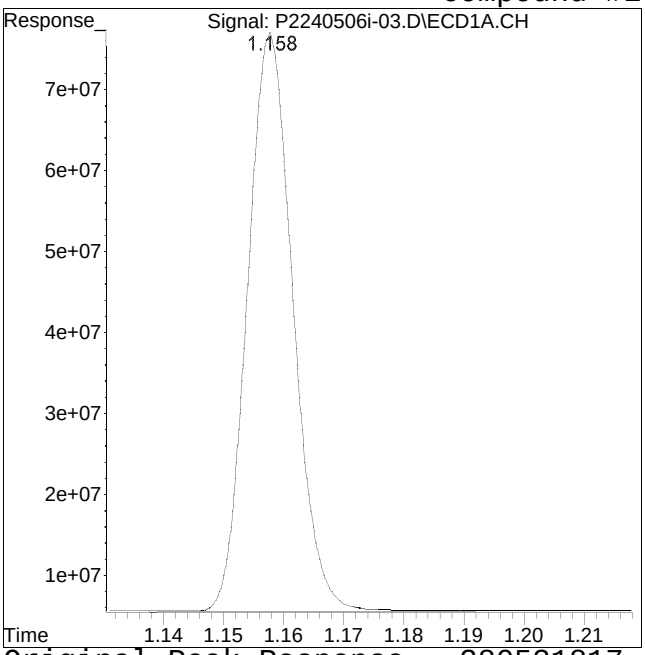
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

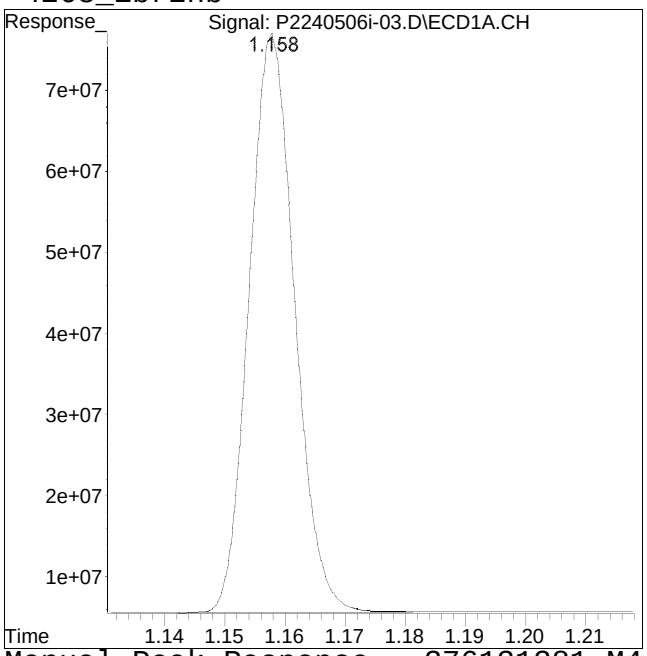


Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-03.D Operator : pest2:rmp
Date Inj'd : 5/6/2024 8:49 pm Instrument : Pest 2
Sample : il44268,42e,,pp 11454 Quant Date : 5/7/2024 3:41 pm

Compound #23: 4268_1br2nb



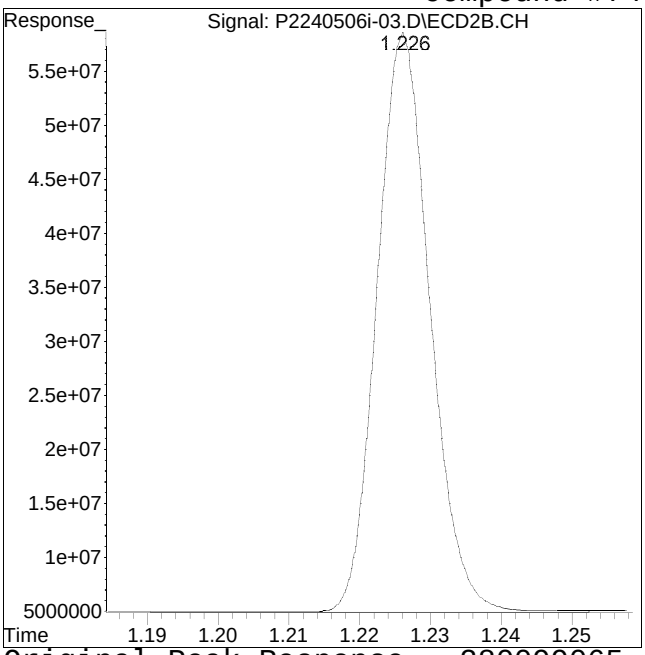


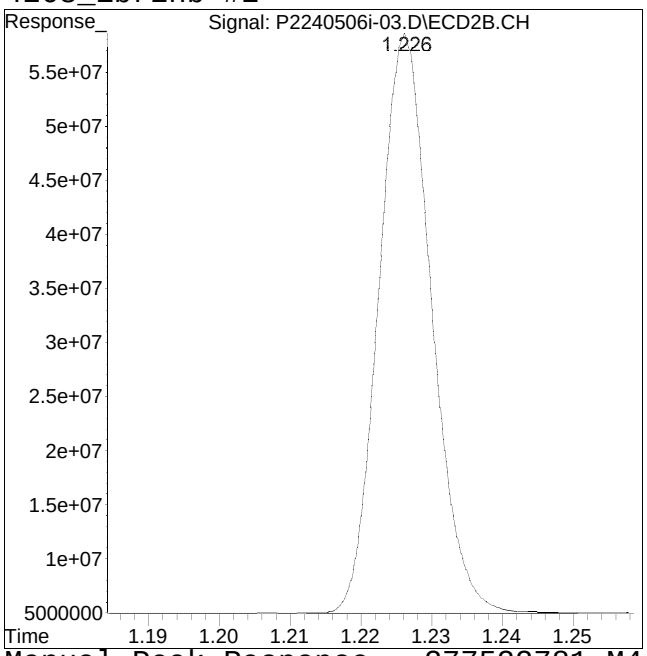
Original Peak Response = 380531817 Manual Peak Response = 376131381 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-03.D Operator : pest2:rmp
Date Inj'd : 5/6/2024 8:49 pm Instrument : Pest 2
Sample : il44268,42e,,pp 11454 Quant Date : 5/7/2024 3:41 pm

Compound #74: 4268_1br2nb #2





Original Peak Response = 280099065 Manual Peak Response = 277522781 M4
M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240506I\
Data File : P2240506i-04.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 06 May 2024 8:59 pm
Operator : pest2:rmp
Sample : il43262,42e,,pp 11457
Misc : WG1918477,,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 4 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 07 15:43:19 2024
Quant Method : I:\PCB\Pest2\2024\240506I\P2_pcb_05_06_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Tue May 07 15:43:11 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1660_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
14) i	2154_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
23) i	4268_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
34) i	1248_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
40) i	3262_1br2nb	1.159	1.227	378.8E6	271.6E6	25.000	25.000
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	20.000	Range 30 - 150	Recovery	=	0.00%#	0.00%#
3) s	Decachlorobi	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	20.000	Range 30 - 150	Recovery	=	0.00%#	0.00%#
	Target Compounds						
4) l1	1016-1	0.000	0.000	0	0	N.D. d	N.D. d
5) l1	1016-2	0.000	0.000	0	0	N.D. d	N.D. d
6) l1	1016-3	0.000	0.000	0	0	N.D. d	N.D. d
7) l1	1016-4	0.000	0.000	0	0	N.D. d	N.D. d
8) l1	1016-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1016-1			0	0	N.D.	N.D.
	Average 1016-1					0.000	0.000
9) l2	1260-1	0.000	0.000	0	0	N.D. d	N.D. d
10) l2	1260-2	0.000	0.000	0	0	N.D. d	N.D. d
11) l2	1260-3	0.000	0.000	0	0	N.D. d	N.D. d
12) l2	1260-4	0.000	0.000	0	0	N.D. d	N.D. d
13) l2	1260-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1260-1			0	0	N.D.	N.D.
	Average 1260-1					0.000	0.000
15) l3	1221-2	0.000	0.000	0	0	N.D. d	N.D. d
16) l3	1221-3	0.000	0.000	0	0	N.D. d	N.D. d
17) l3	1221-4	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\PCB\Pest2\2024\240506I\
Data File : P2240506i-04.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 06 May 2024 8:59 pm
Operator : pest2:rmp
Sample : il43262,42e,,pp 11457
Misc : WG1918477,,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 4 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 07 15:43:19 2024
Quant Method : I:\PCB\Pest2\2024\240506I\P2_pcb_05_06_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Tue May 07 15:43:11 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Sum	1221-2			0	0	N.D.	N.D.
Average	1221-2					0.000	0.000
18) l4	1254-1	0.000	0.000	0	0	N.D. d	N.D. d
19) l4	1254-2	0.000	0.000	0	0	N.D. d	N.D. d
20) l4	1254-3	0.000	0.000	0	0	N.D. d	N.D. d
21) l4	1254-4	0.000	0.000	0	0	N.D. d	N.D. d
22) l4	1254-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1254-1			0	0	N.D.	N.D.
Average	1254-1					0.000	0.000
24) l6	1242-1	0.000	0.000	0	0	N.D. d	N.D. d
25) l6	1242-2	0.000	0.000	0	0	N.D. d	N.D. d
26) l6	1242-3	0.000	0.000	0	0	N.D. d	N.D. d
27) l6	1242-4	0.000	0.000	0	0	N.D. d	N.D. d
28) l6	1242-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1242-1			0	0	N.D.	N.D.
Average	1242-1					0.000	0.000
29) l9	1268-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l9	1268-2	0.000	0.000	0	0	N.D. d	N.D. d
31) l9	1268-3	0.000	0.000	0	0	N.D. d	N.D. d
32) l9	1268-4	0.000	0.000	0	0	N.D. d	N.D. d
33) l9	1268-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1268-1			0	0	N.D.	N.D.
Average	1268-1					0.000	0.000
35) l7	1248-1	0.000	0.000	0	0	N.D. d	N.D. d
36) l7	1248-2	0.000	0.000	0	0	N.D. d	N.D. d
37) l7	1248-3	0.000	0.000	0	0	N.D. d	N.D. d
38) l7	1248-4	0.000	0.000	0	0	N.D. d	N.D. d
39) l7	1248-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1248-1			0	0	N.D.	N.D.

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240506I\
Data File : P2240506i-04.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 06 May 2024 8:59 pm
Operator : pest2:rmp
Sample : il43262,42e,,pp 11457
Misc : WG1918477,,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 4 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 07 15:43:19 2024
Quant Method : I:\PCB\Pest2\2024\240506I\P2_pcb_05_06_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Tue May 07 15:43:11 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Average	1248-1					0.000	0.000
41) l5	1232-1	1.584	1.804	98916572	67532754	250.000	250.000
42) l5	1232-2	1.726	1.975	90910466	67081964	250.000	250.000
43) l5	1232-3	1.915	2.177	190.1E6	121.6E6	250.000	250.000
44) l5	1232-4	1.971	2.237	77287496	49144931	250.000	250.000
45) l5	1232-5	2.324	2.624	56698612	35277580	250.000	250.000
Sum	1232-1			514.0E6	340.6E6	1250.000	1250.000
Average	1232-1					250.000	250.000
46) l8	1262-1	2.816	3.160	266.8E6	132.0E6	250.000	250.000
47) l8	1262-2	3.008	3.394	343.3E6	176.7E6	250.000	250.000
48) l8	1262-3	3.131	3.553	300.5E6	160.2E6	250.000	250.000
49) l8	1262-4	3.287	3.682	606.5E6	298.5E6	249.567M3	250.000
50) l8	1262-5	3.762	4.200	188.6E6	105.4E6	250.000	250.000
Sum	1262-1			1705.8E6	872.8E6	1249.567	1250.000
Average	1262-1					249.913	250.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	1262-1			1705.8E6	872.8E6	1249.567	1250.000
Average	1262-1					249.913	250.000

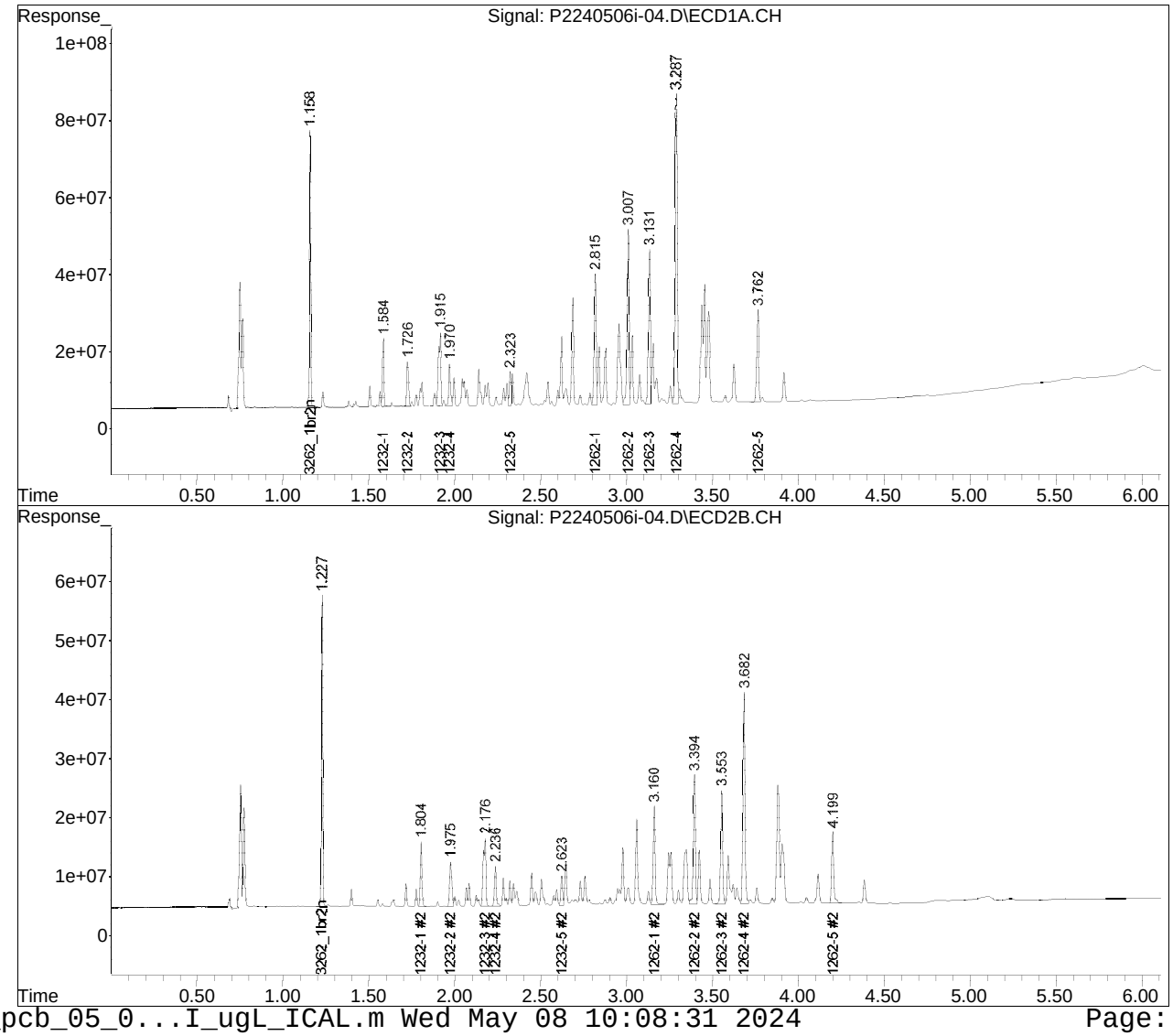
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PCB\Pest2\2024\240506I\
Data File : P2240506i-04.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 06 May 2024 8:59 pm
Operator : pest2:rmp
Sample : il43262,42e,,pp 11457
Misc : WG1918477,,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 4 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 07 15:43:19 2024
Quant Method : I:\PCB\Pest2\2024\240506I\P2_pcb_05_06_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Tue May 07 15:43:11 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

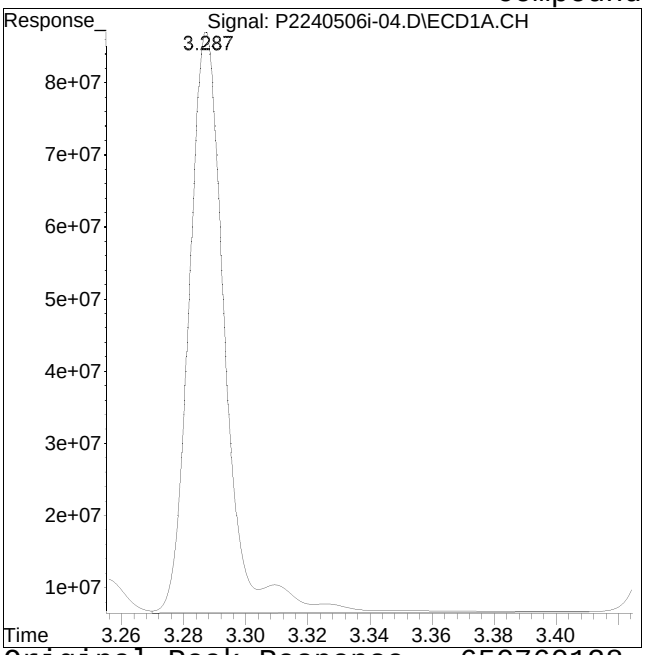
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

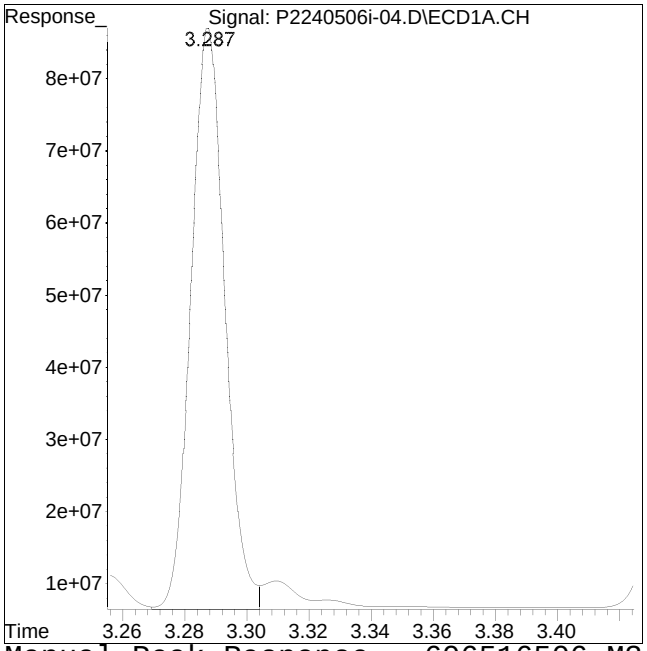


Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-04.D Operator : pest2:rmp
Date Inj'd : 5/6/2024 8:59 pm Instrument : Pest 2
Sample : il43262,42e,,pp 11457 Quant Date : 5/7/2024 3:43 pm

Compound #49: 1262-4





Original Peak Response = 650760128 Manual Peak Response = 606516506 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240506I\
Data File : P2240506i-05.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 06 May 2024 9:08 pm
Operator : pest2:rmp
Sample : il41248,42e,,pp 11452
Misc : WG1918477,,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 5 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 07 16:34:35 2024
Quant Method : I:\PCB\Pest2\2024\240506I\P2_pcb_05_06_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Tue May 07 16:34:26 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1660_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
14) i	2154_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
23) i	4268_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
34) i	1248_1br2nb	1.159	1.228	395.7E6	290.0E6	25.000	25.000
40) i	3262_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	20.000	Range 30 - 150	Recovery	=	0.00%#	0.00%#
3) s	Decachlorobi	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	20.000	Range 30 - 150	Recovery	=	0.00%#	0.00%#
	Target Compounds						
4) l1	1016-1	0.000	0.000	0	0	N.D. d	N.D. d
5) l1	1016-2	0.000	0.000	0	0	N.D. d	N.D. d
6) l1	1016-3	0.000	0.000	0	0	N.D. d	N.D. d
7) l1	1016-4	0.000	0.000	0	0	N.D. d	N.D. d
8) l1	1016-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1016-1			0	0	N.D.	N.D.
	Average 1016-1					0.000	0.000
9) l2	1260-1	0.000	0.000	0	0	N.D. d	N.D. d
10) l2	1260-2	0.000	0.000	0	0	N.D. d	N.D. d
11) l2	1260-3	0.000	0.000	0	0	N.D. d	N.D. d
12) l2	1260-4	0.000	0.000	0	0	N.D. d	N.D. d
13) l2	1260-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1260-1			0	0	N.D.	N.D.
	Average 1260-1					0.000	0.000
15) l3	1221-2	0.000	0.000	0	0	N.D. d	N.D. d
16) l3	1221-3	0.000	0.000	0	0	N.D. d	N.D. d
17) l3	1221-4	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240506I\
Data File : P2240506i-05.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 06 May 2024 9:08 pm
Operator : pest2:rmp
Sample : il41248,42e,,pp 11452
Misc : WG1918477,,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 5 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 07 16:34:35 2024
Quant Method : I:\PCB\Pest2\2024\240506I\P2_pcb_05_06_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Tue May 07 16:34:26 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Sum	1221-2			0	0	N.D.	N.D.
Average	1221-2					0.000	0.000
18) l4	1254-1	0.000	0.000	0	0	N.D. d	N.D. d
19) l4	1254-2	0.000	0.000	0	0	N.D. d	N.D. d
20) l4	1254-3	0.000	0.000	0	0	N.D. d	N.D. d
21) l4	1254-4	0.000	0.000	0	0	N.D. d	N.D. d
22) l4	1254-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1254-1			0	0	N.D.	N.D.
Average	1254-1					0.000	0.000
24) l6	1242-1	0.000	0.000	0	0	N.D. d	N.D. d
25) l6	1242-2	0.000	0.000	0	0	N.D. d	N.D. d
26) l6	1242-3	0.000	0.000	0	0	N.D. d	N.D. d
27) l6	1242-4	0.000	0.000	0	0	N.D. d	N.D. d
28) l6	1242-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1242-1			0	0	N.D.	N.D.
Average	1242-1					0.000	0.000
29) l9	1268-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l9	1268-2	0.000	0.000	0	0	N.D. d	N.D. d
31) l9	1268-3	0.000	0.000	0	0	N.D.	N.D.
32) l9	1268-4	0.000	0.000	0	0	N.D. d	N.D. d
33) l9	1268-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1268-1			0	0	N.D.	N.D.
Average	1268-1					0.000	0.000
35) l7	1248-1	1.907	2.167	225.8E6	150.7E6	250.000	245.071M1
36) l7	1248-2	2.045	2.322	291.3E6	99774187	248.952M1	250.000
37) l7	1248-3	2.141	2.448	257.5E6	125.4E6	250.000	250.000
38) l7	1248-4	2.324	2.624	229.7E6	138.0E6	250.000	250.000

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240506I\
Data File : P2240506i-05.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 06 May 2024 9:08 pm
Operator : pest2:rmp
Sample : il41248,42e,,pp 11452
Misc : WG1918477,,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 5 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 07 16:34:35 2024
Quant Method : I:\PCB\Pest2\2024\240506I\P2_pcb_05_06_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Tue May 07 16:34:26 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

Compound		RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
39) l7	1248-5	2.336	2.647	199.1E6	157.4E6	260.778	250.000
Sum	1248-1			1203.4E6	671.4E6	N.D.	N.D. D
Average	1248-1					251.946	249.014
41) l5	1232-1	0.000	0.000	0	0	N.D. d	N.D. d
42) l5	1232-2	0.000	0.000	0	0	N.D. d	N.D. d
43) l5	1232-3	0.000	0.000	0	0	N.D. d	N.D. d
44) l5	1232-4	0.000	0.000	0	0	N.D. d	N.D. d
45) l5	1232-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1232-1			0	0	N.D.	N.D.
Average	1232-1					0.000	0.000
46) l8	1262-1	0.000	0.000	0	0	N.D. d	N.D. d
47) l8	1262-2	0.000	0.000	0	0	N.D. d	N.D. d
48) l8	1262-3	0.000	0.000	0	0	N.D. d	N.D. d
49) l8	1262-4	0.000	0.000	0	0	N.D. d	N.D. d
50) l8	1262-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1262-1			0	0	N.D.	N.D.
Average	1262-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	1262-1			0	0	N.D.	N.D.
Average	1262-1					0.000	0.000

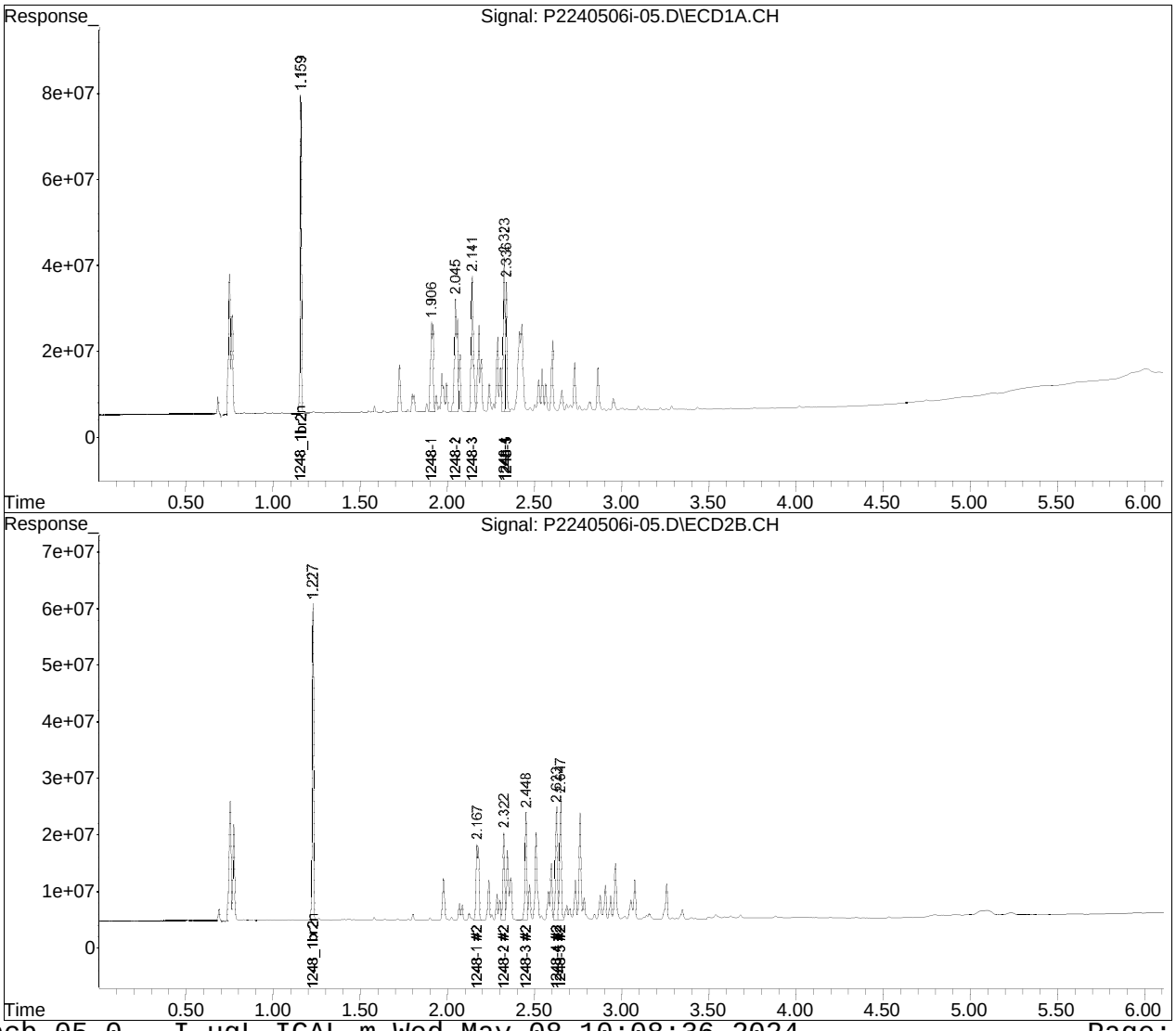
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PCB\Pest2\2024\240506I\
Data File : P2240506i-05.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 06 May 2024 9:08 pm
Operator : pest2:rmp
Sample : il41248,42e,,pp 11452
Misc : WG1918477,,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 5 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 07 16:34:35 2024
Quant Method : I:\PCB\Pest2\2024\240506I\P2_pcb_05_06_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Tue May 07 16:34:26 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

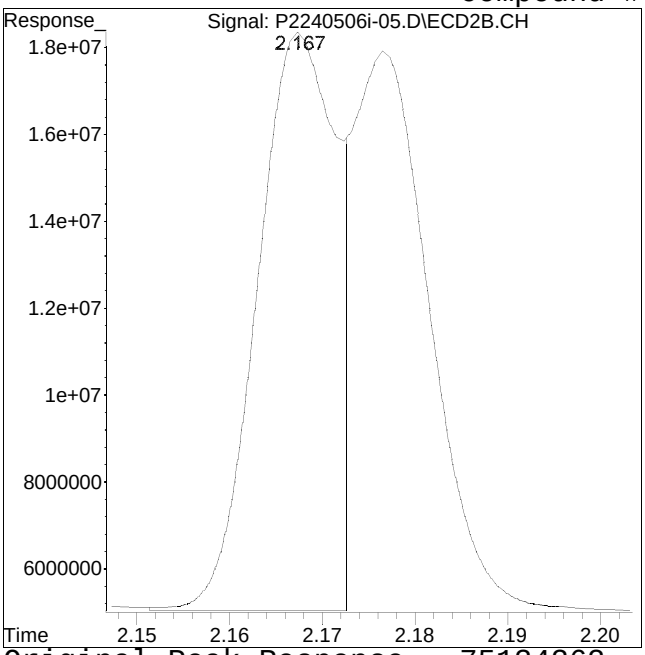
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

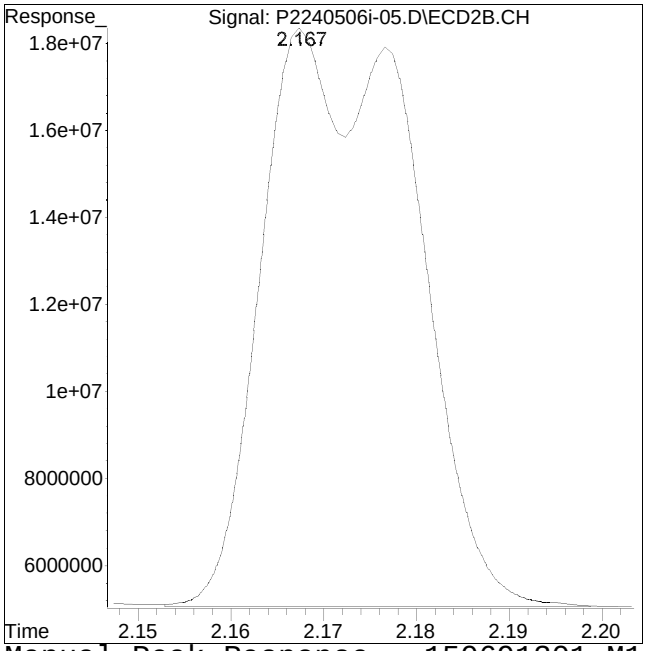


Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-05.D Operator : pest2:rmp
Date Inj'd : 5/6/2024 9:08 pm Instrument : Pest 2
Sample : il41248,42e,,pp 11452 Quant Date : 5/7/2024 4:34 pm

Compound #86: 1248-1 #2



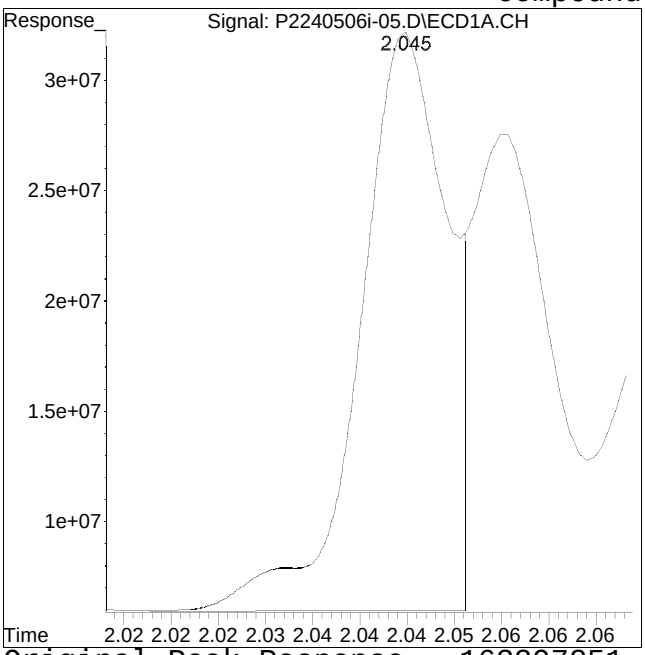


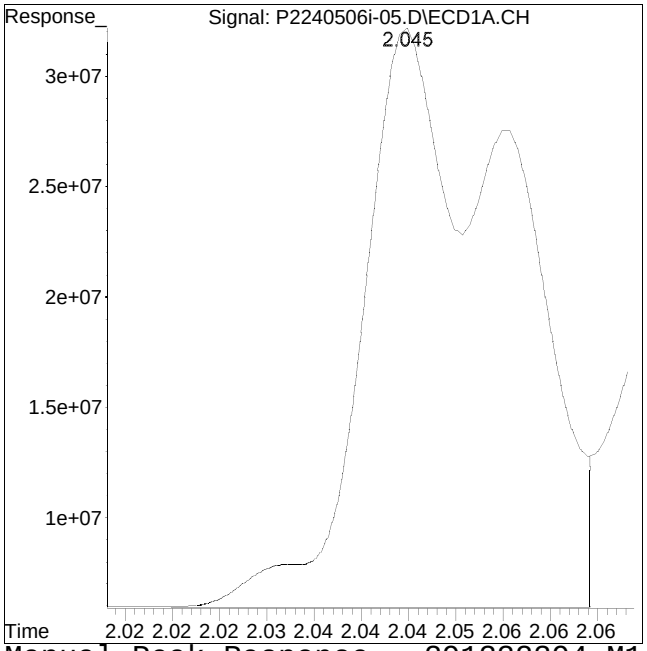
Original Peak Response = 75134262 Manual Peak Response = 150691301 M1
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-05.D Operator : pest2:rmp
Date Inj'd : 5/6/2024 9:08 pm Instrument : Pest 2
Sample : il41248,42e,,pp 11452 Quant Date : 5/7/2024 4:34 pm

Compound #36: 1248-2





Original Peak Response = 163397251 Manual Peak Response = 291332394 M1
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240506I\
Data File : P2240506i-06.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 06 May 2024 9:18 pm
Operator : pest2:rmp
Sample : il42154,42e,,pp 11449
Misc : WG1918477,,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 6 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 07 16:37:32 2024
Quant Method : I:\PCB\Pest2\2024\240506I\P2_pcb_05_06_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Tue May 07 16:37:24 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1660_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
14) i	2154_1br2nb	1.159	1.228	368.2E6	270.8E6	25.000M4	25.000M4
23) i	4268_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
34) i	1248_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
40) i	3262_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount 20.000	Range 30 - 150		Recovery =		0.00%#	0.00%#
3) s	Decachlorobi	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount 20.000	Range 30 - 150		Recovery =		0.00%#	0.00%#
	Target Compounds						
4) l1	1016-1	0.000	0.000	0	0	N.D. d	N.D. d
5) l1	1016-2	0.000	0.000	0	0	N.D. d	N.D. d
6) l1	1016-3	0.000	0.000	0	0	N.D. d	N.D. d
7) l1	1016-4	0.000	0.000	0	0	N.D. d	N.D. d
8) l1	1016-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1016-1			0	0	N.D.	N.D.
	Average 1016-1					0.000	0.000
9) l2	1260-1	0.000	0.000	0	0	N.D. d	N.D. d
10) l2	1260-2	0.000	0.000	0	0	N.D. d	N.D. d
11) l2	1260-3	0.000	0.000	0	0	N.D. d	N.D. d
12) l2	1260-4	0.000	0.000	0	0	N.D. d	N.D. d
13) l2	1260-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1260-1			0	0	N.D.	N.D.
	Average 1260-1					0.000	0.000
15) l3	1221-2	1.508	1.719	55425335	41450915	258.591	253.137
16) l3	1221-3	1.567	1.779	34088987	25570999	258.782M3	253.137

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240506I\
Data File : P2240506i-06.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 06 May 2024 9:18 pm
Operator : pest2:rmp
Sample : il42154,42e,,pp 11449
Misc : WG1918477,,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 6 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 07 16:37:32 2024
Quant Method : I:\PCB\Pest2\2024\240506I\P2_pcb_05_06_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Tue May 07 16:37:24 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
17) l3	1221-4	1.584	1.805	133.6E6	92463612	259.046M3	253.137
Sum	1221-2			223.1E6	159.5E6	776.419	759.412
Average	1221-2					258.806	253.137
18) l4	1254-1	2.305	2.646	189.9E6	126.2E6	256.824M3	253.137
19) l4	1254-2	2.418	2.733	334.3E6	143.9E6	253.515M3	253.137
20) l4	1254-3	2.602	2.963	362.1E6	212.5E6	258.591	253.137
21) l4	1254-4	2.732	3.074	253.4E6	140.0E6	258.591	269.685
22) l4	1254-5	2.954	3.350	347.6E6	193.6E6	258.591	253.137
Sum	1254-1			1487.3E6	816.2E6	N.D.	N.D. D
Average	1254-1					257.222	256.447
24) l6	1242-1	0.000	0.000	0	0	N.D. d	N.D. d
25) l6	1242-2	0.000	0.000	0	0	N.D. d	N.D. d
26) l6	1242-3	0.000	0.000	0	0	N.D. d	N.D. d
27) l6	1242-4	0.000	0.000	0	0	N.D. d	N.D. d
28) l6	1242-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1242-1			0	0	N.D.	N.D.
Average	1242-1					0.000	0.000
29) l9	1268-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l9	1268-2	0.000	0.000	0	0	N.D. d	N.D. d
31) l9	1268-3	0.000	0.000	0	0	N.D. d	N.D. d
32) l9	1268-4	0.000	0.000	0	0	N.D. d	N.D. d
33) l9	1268-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1268-1			0	0	N.D.	N.D.
Average	1268-1					0.000	0.000
35) l7	1248-1	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240506I\
Data File : P2240506i-06.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 06 May 2024 9:18 pm
Operator : pest2:rmp
Sample : il42154,42e,,pp 11449
Misc : WG1918477,,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 6 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 07 16:37:32 2024
Quant Method : I:\PCB\Pest2\2024\240506I\P2_pcb_05_06_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Tue May 07 16:37:24 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
36) l7	1248-2	0.000	0.000	0	0	N.D. d	N.D. d
37) l7	1248-3	0.000	0.000	0	0	N.D. d	N.D. d
38) l7	1248-4	0.000	0.000	0	0	N.D. d	N.D. d
39) l7	1248-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1248-1			0	0	N.D.	N.D.
Average	1248-1					0.000	0.000
41) l5	1232-1	0.000	0.000	0	0	N.D. d	N.D. d
42) l5	1232-2	0.000	0.000	0	0	N.D. d	N.D. d
43) l5	1232-3	0.000	0.000	0	0	N.D. d	N.D. d
44) l5	1232-4	0.000	0.000	0	0	N.D. d	N.D. d
45) l5	1232-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1232-1			0	0	N.D.	N.D.
Average	1232-1					0.000	0.000
46) l8	1262-1	0.000	0.000	0	0	N.D. d	N.D. d
47) l8	1262-2	0.000	0.000	0	0	N.D. d	N.D. d
48) l8	1262-3	0.000	0.000	0	0	N.D. d	N.D. d
49) l8	1262-4	0.000	0.000	0	0	N.D. d	N.D. d
50) l8	1262-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1262-1			0	0	N.D.	N.D.
Average	1262-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	1262-1			0	0	N.D.	N.D.
Average	1262-1					0.000	0.000

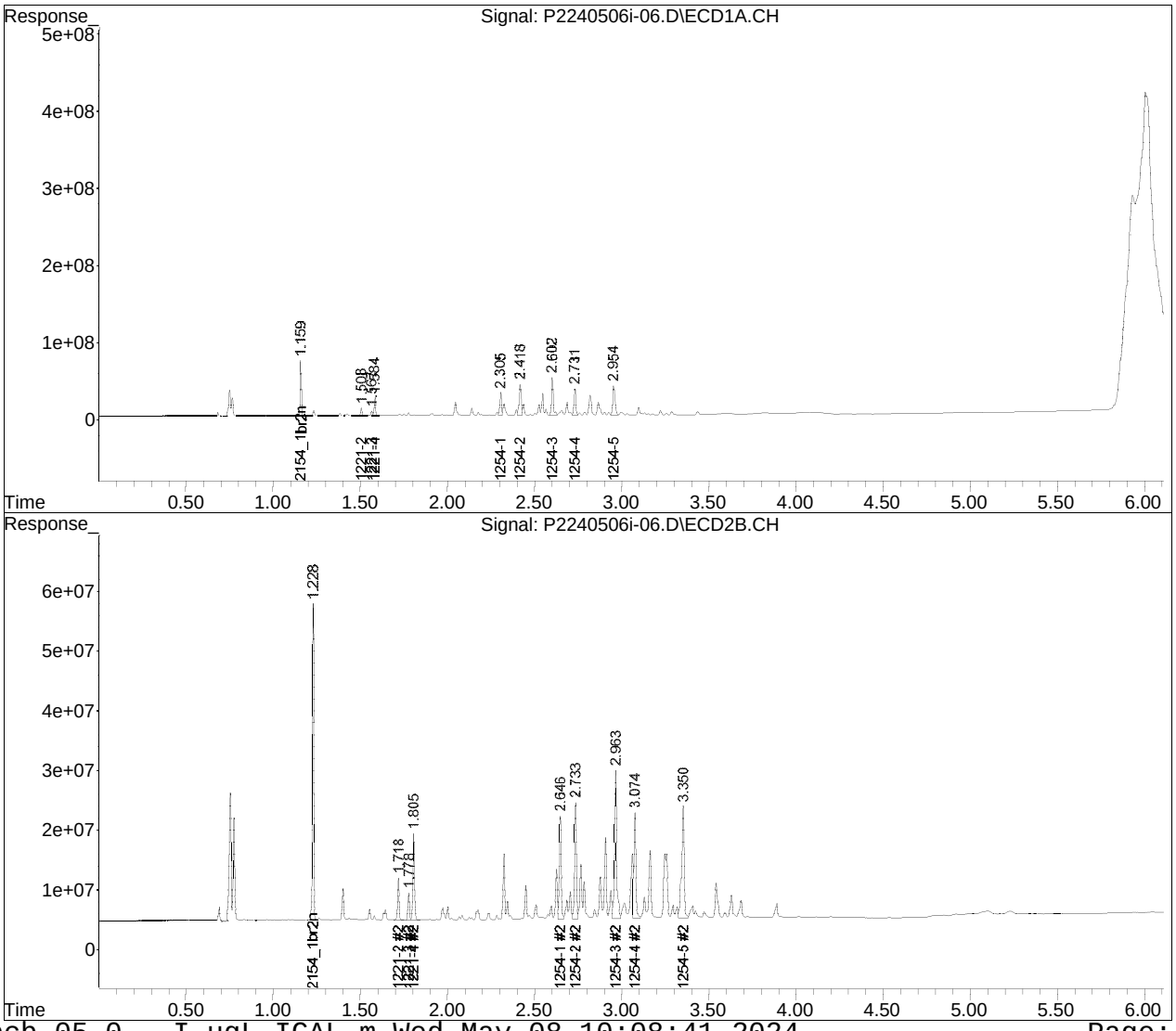
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PCB\Pest2\2024\240506I\
Data File : P2240506i-06.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 06 May 2024 9:18 pm
Operator : pest2:rmp
Sample : il42154,42e,,pp 11449
Misc : WG1918477,,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 6 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 07 16:37:32 2024
Quant Method : I:\PCB\Pest2\2024\240506I\P2_pcb_05_06_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Tue May 07 16:37:24 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

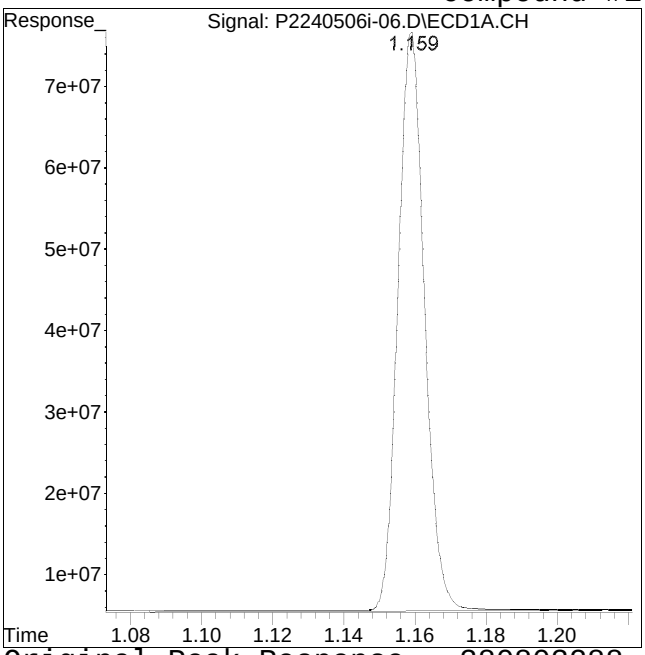
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

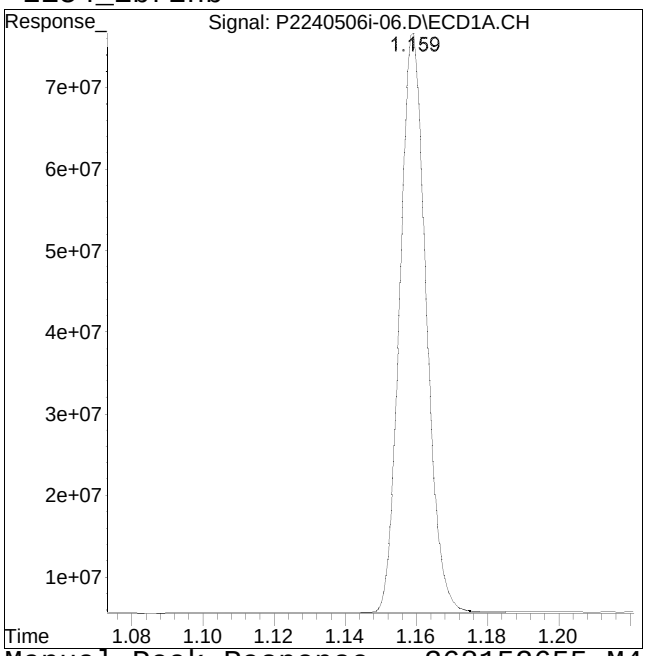


Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-06.D Operator : pest2:rmp
Date Inj'd : 5/6/2024 9:18 pm Instrument : Pest 2
Sample : il42154,42e,,pp 11449 Quant Date : 5/7/2024 4:37 pm

Compound #14: 2154_1br2nb



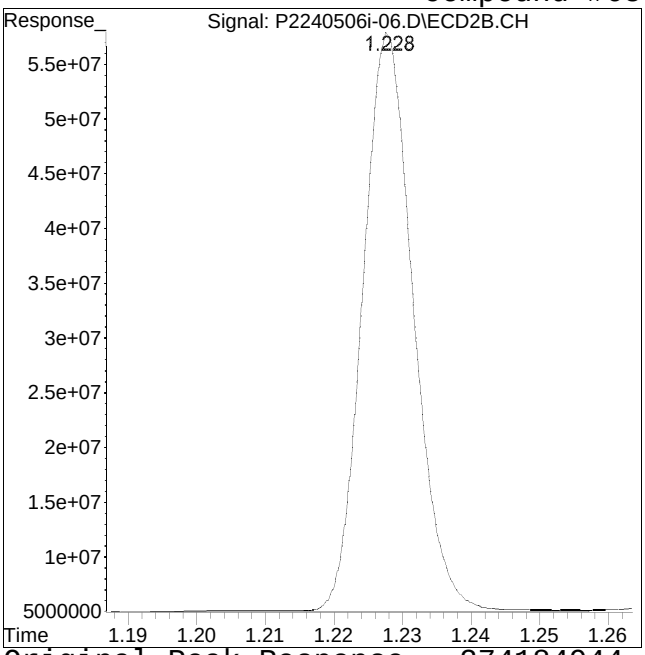


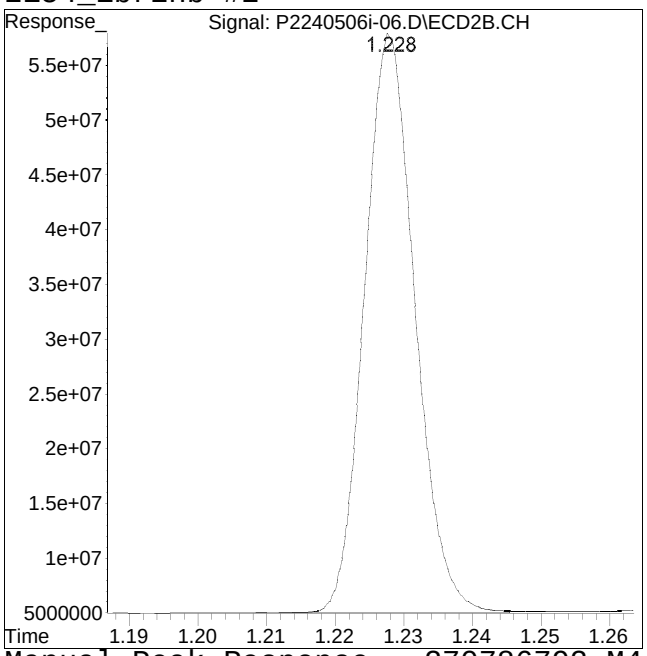
Original Peak Response = 380803288 Manual Peak Response = 368152655 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-06.D Operator : pest2:rmp
Date Inj'd : 5/6/2024 9:18 pm Instrument : Pest 2
Sample : il42154,42e,,pp 11449 Quant Date : 5/7/2024 4:37 pm

Compound #65: 2154_1br2nb #2



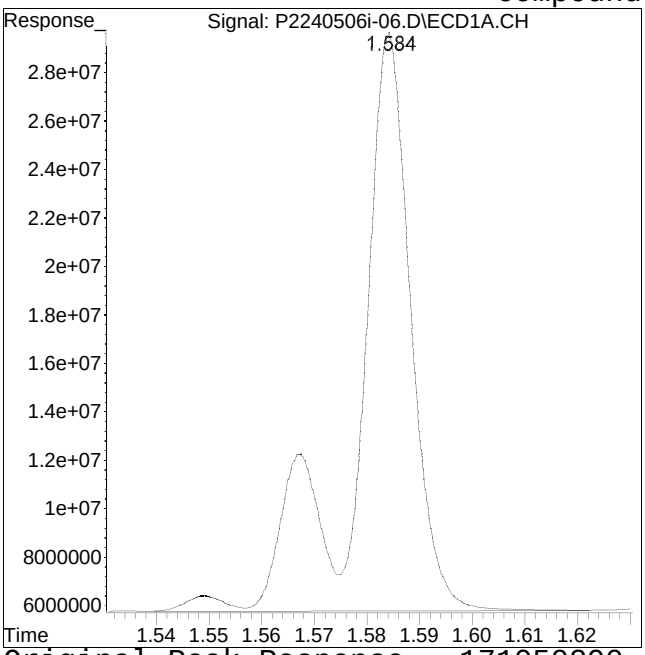


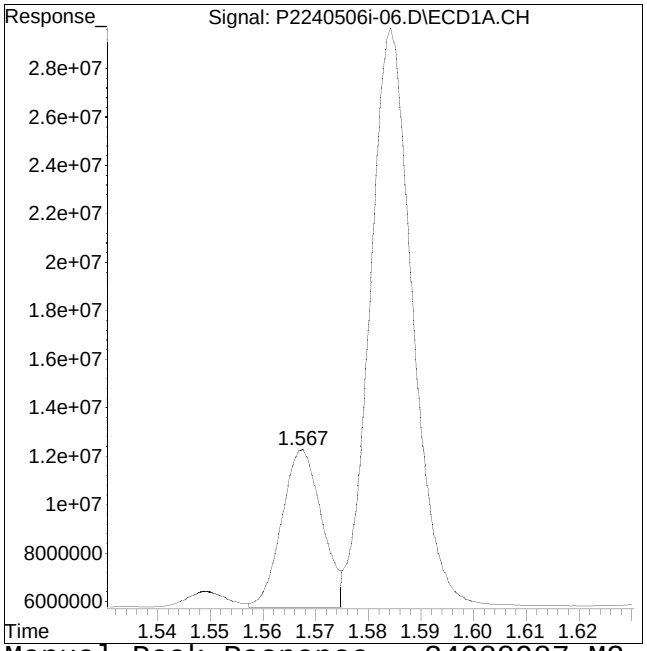
Original Peak Response = 274184944 Manual Peak Response = 270786792 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-06.D Operator : pest2:rmp
Date Inj'd : 5/6/2024 9:18 pm Instrument : Pest 2
Sample : il42154,42e,,pp 11449 Quant Date : 5/7/2024 4:37 pm

Compound #16: 1221-3



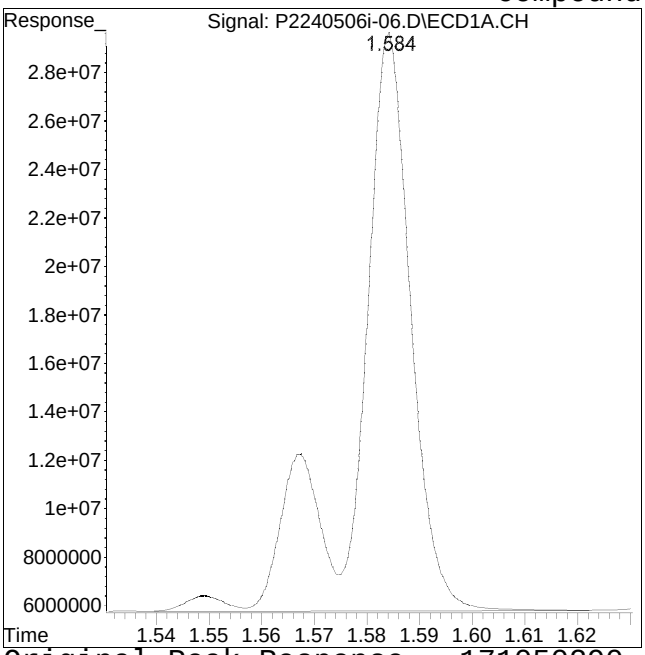


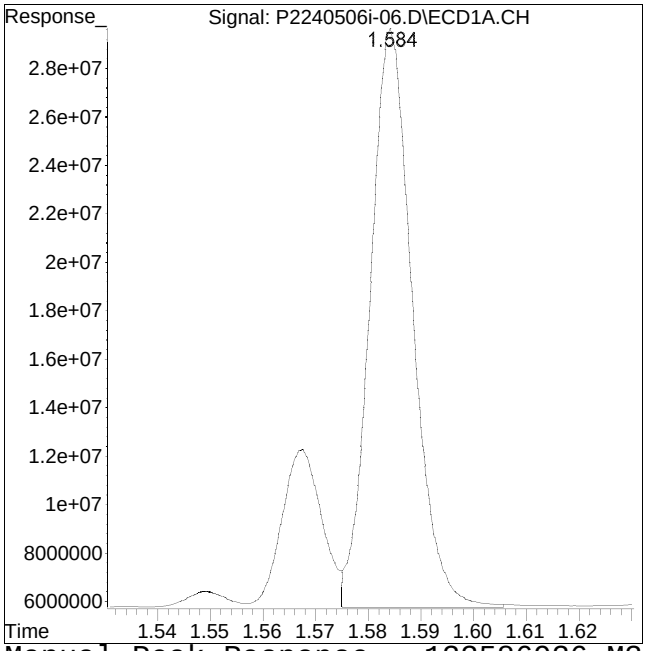
Original Peak Response = 171050290 Manual Peak Response = 34088987 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-06.D Operator : pest2:rmp
Date Inj'd : 5/6/2024 9:18 pm Instrument : Pest 2
Sample : il42154,42e,,pp 11449 Quant Date : 5/7/2024 4:37 pm

Compound #17: 1221-4



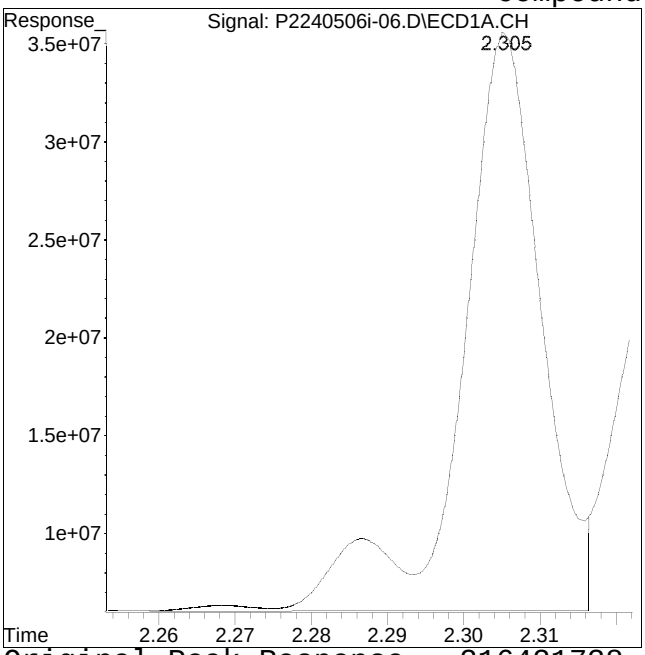


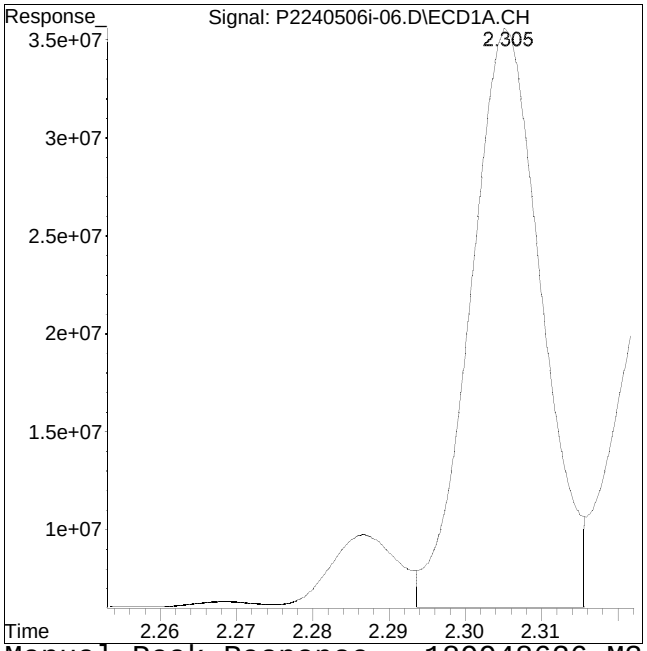
Original Peak Response = 171050290 Manual Peak Response = 133586936 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-06.D Operator : pest2:rmp
Date Inj'd : 5/6/2024 9:18 pm Instrument : Pest 2
Sample : il42154,42e,,pp 11449 Quant Date : 5/7/2024 4:37 pm

Compound #18: 1254-1



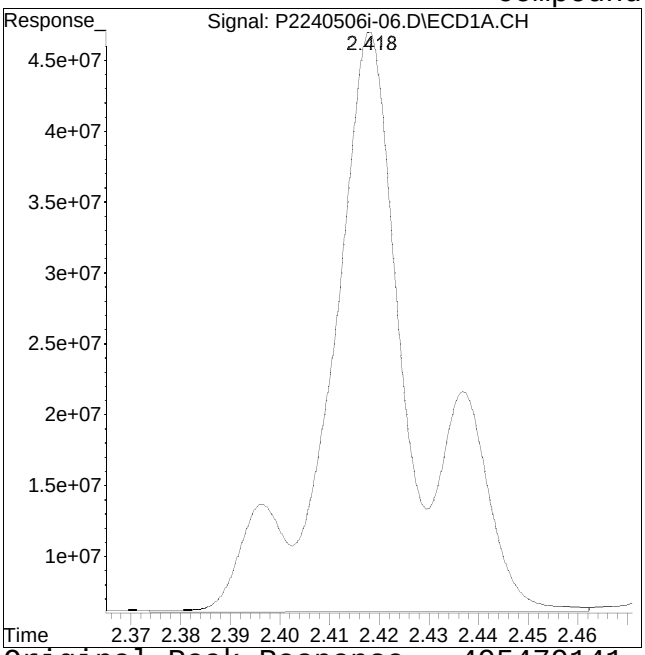


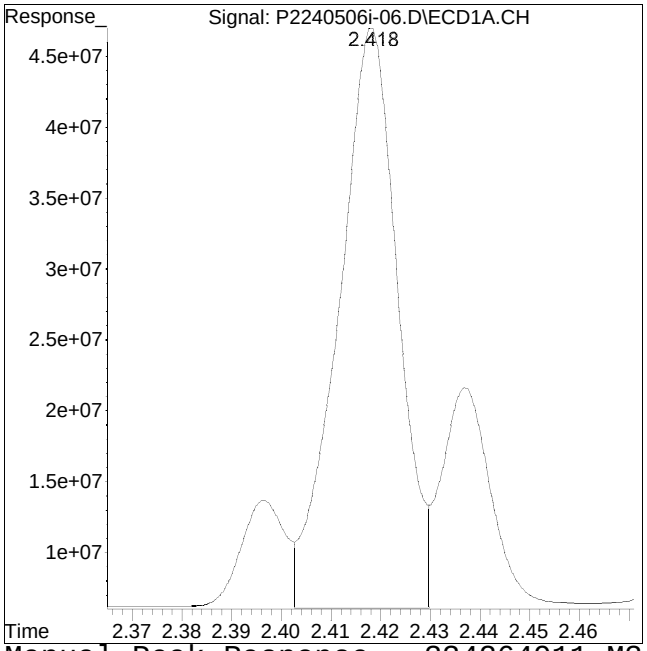
Original Peak Response = 216421738 Manual Peak Response = 189948626 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-06.D Operator : pest2:rmp
Date Inj'd : 5/6/2024 9:18 pm Instrument : Pest 2
Sample : il42154,42e,,pp 11449 Quant Date : 5/7/2024 4:37 pm

Compound #19: 1254-2





Original Peak Response = 495479141 Manual Peak Response = 334264911 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240506I\
Data File : P2240506i-08.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 06 May 2024 9:36 pm
Operator : pest2:rmp
Sample : il21660,42e,,pp 11447
Misc : WG1918477,,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 8 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 07 15:12:38 2024
Quant Method : I:\PCB\Pest2\2024\240506I\P2_pcb_05_06_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Tue May 07 15:12:36 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1660_1br2nb	1.160	1.229	427.9E6	307.5E6	25.000	25.000
14) i	2154_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
23) i	4268_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
34) i	1248_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
40) i	3262_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	1.446	1.604	67030846	48767818	2.923	3.001
	Spiked Amount 20.000	Range 30 - 150		Recovery =		14.62%#	15.00%#
3) s	Decachlorobi	4.021	4.535	89819738	49489705	1.018M4	6.253M4
	Spiked Amount 20.000	Range 30 - 150		Recovery =		5.09%#	31.26%
	Target Compounds						
4) l1	1016-1	1.586	1.806	19864562	14014682	44.922	49.629
5) l1	1016-2	1.727	1.978	44044956	31223629	51.763M1	49.840
6) l1	1016-3	1.917	2.179	83622291	59884413	46.126	47.891
7) l1	1016-4	1.972	2.239	34314487	23349042	46.249M3	46.682
8) l1	1016-5	2.143	2.450	37922778	18676230	46.023	41.140M4
	Sum 1016-1			219.8E6	147.1E6	235.083	235.181
	Average 1016-1					47.017	47.036
9) l2	1260-1	2.686	3.060	55225089	31043678	40.986M4	35.272M4
10) l2	1260-2	2.817	3.162	82457614	38768910	1.109M4	36.451M4
11) l2	1260-3	3.133	3.555	49330916	32395410	38.777M4	37.384
12) l2	1260-4	3.288	3.684	106.8E6	63773305	2.871M4	49.188

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240506I\
Data File : P2240506i-08.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 06 May 2024 9:36 pm
Operator : pest2:rmp
Sample : il21660,42e,,pp 11447
Misc : WG1918477,,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 8 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 07 15:12:38 2024
Quant Method : I:\PCB\Pest2\2024\240506I\P2_pcb_05_06_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Tue May 07 15:12:36 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
13) l2	1260-5	3.437	3.886	73865657	44351592	4.149M1	48.488
Sum	1260-1			367.6E6	210.3E6	N.D.	N.D. D
Average	1260-1					17.578	41.356 D
15) l3	1221-2	0.000	0.000	0	0	N.D. d	N.D. d
16) l3	1221-3	0.000	0.000	0	0	N.D. d	N.D. d
17) l3	1221-4	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1221-2			0	0	N.D.	N.D.
Average	1221-2					0.000	0.000
18) l4	1254-1	0.000	0.000	0	0	N.D. d	N.D. d
19) l4	1254-2	0.000	0.000	0	0	N.D. d	N.D. d
20) l4	1254-3	0.000	0.000	0	0	N.D. d	N.D. d
21) l4	1254-4	0.000	0.000	0	0	N.D. d	N.D. d
22) l4	1254-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1254-1			0	0	N.D.	N.D.
Average	1254-1					0.000	0.000
24) l6	1242-1	0.000	0.000	0	0	N.D. d	N.D. d
25) l6	1242-2	0.000	0.000	0	0	N.D. d	N.D. d
26) l6	1242-3	0.000	0.000	0	0	N.D. d	N.D. d
27) l6	1242-4	0.000	0.000	0	0	N.D. d	N.D. d
28) l6	1242-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1242-1			0	0	N.D.	N.D.
Average	1242-1					0.000	0.000
29) l9	1268-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l9	1268-2	0.000	0.000	0	0	N.D. d	N.D. d
31) l9	1268-3	0.000	0.000	0	0	N.D. d	N.D. d
32) l9	1268-4	0.000	0.000	0	0	N.D. d	N.D. d
33) l9	1268-5	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\PCB\Pest2\2024\240506I\
Data File : P2240506i-08.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 06 May 2024 9:36 pm
Operator : pest2:rmp
Sample : il21660,42e,,pp 11447
Misc : WG1918477,,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 8 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 07 15:12:38 2024
Quant Method : I:\PCB\Pest2\2024\240506I\P2_pcb_05_06_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Tue May 07 15:12:36 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Sum	1268-1			0	0	N.D.	N.D.
Average	1268-1					0.000	0.000
35) l7	1248-1	0.000	0.000	0	0	N.D. d	N.D. d
36) l7	1248-2	0.000	0.000	0	0	N.D. d	N.D. d
37) l7	1248-3	0.000	0.000	0	0	N.D. d	N.D. d
38) l7	1248-4	0.000	0.000	0	0	N.D. d	N.D. d
39) l7	1248-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1248-1			0	0	N.D.	N.D.
Average	1248-1					0.000	0.000
41) l5	1232-1	0.000	0.000	0	0	N.D. d	N.D. d
42) l5	1232-2	0.000	0.000	0	0	N.D. d	N.D. d
43) l5	1232-3	0.000	0.000	0	0	N.D. d	N.D. d
44) l5	1232-4	0.000	0.000	0	0	N.D. d	N.D. d
45) l5	1232-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1232-1			0	0	N.D.	N.D.
Average	1232-1					0.000	0.000
46) l8	1262-1	0.000	0.000	0	0	N.D. d	N.D. d
47) l8	1262-2	0.000	0.000	0	0	N.D. d	N.D. d
48) l8	1262-3	0.000	0.000	0	0	N.D. d	N.D. d
49) l8	1262-4	0.000	0.000	0	0	N.D. d	N.D. d
50) l8	1262-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1262-1			0	0	N.D.	N.D.
Average	1262-1					0.000	0.000
SemiQuant Compounds - Not Calibrated on this Instrument							
Sum	1262-1			0	0	N.D.	N.D.
Average	1262-1					0.000	0.000

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240506I\
Data File : P2240506i-08.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 06 May 2024 9:36 pm
Operator : pest2:rmp
Sample : il21660,42e,,pp 11447
Misc : WG1918477,,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 8 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 07 15:12:38 2024
Quant Method : I:\PCB\Pest2\2024\240506I\P2_pcb_05_06_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Tue May 07 15:12:36 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l

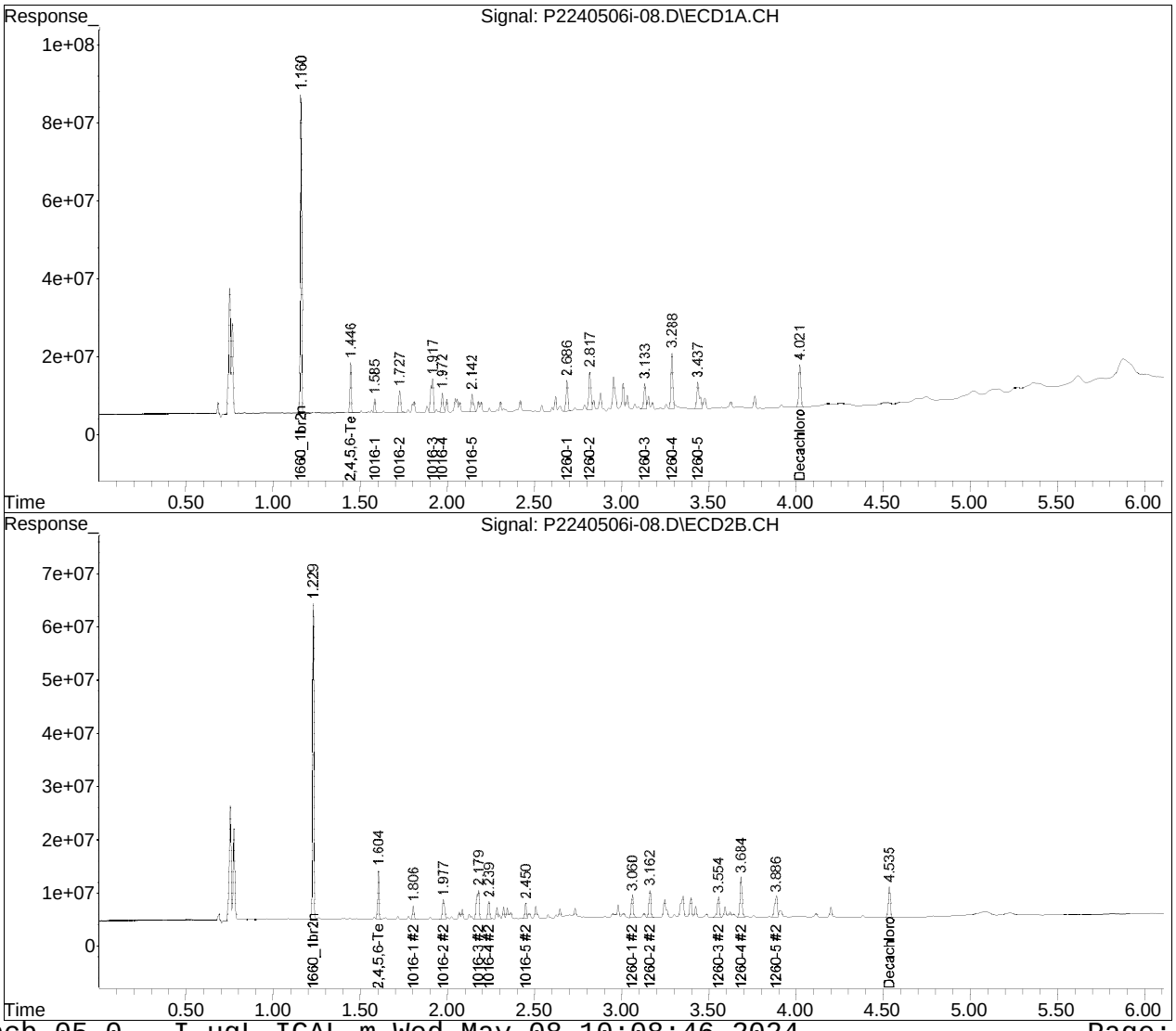
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PCB\Pest2\2024\240506I\
Data File : P2240506i-08.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 06 May 2024 9:36 pm
Operator : pest2:rmp
Sample : il21660,42e,,pp 11447
Misc : WG1918477,,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 8 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 07 15:12:38 2024
Quant Method : I:\PCB\Pest2\2024\240506I\P2_pcb_05_06_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Tue May 07 15:12:36 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

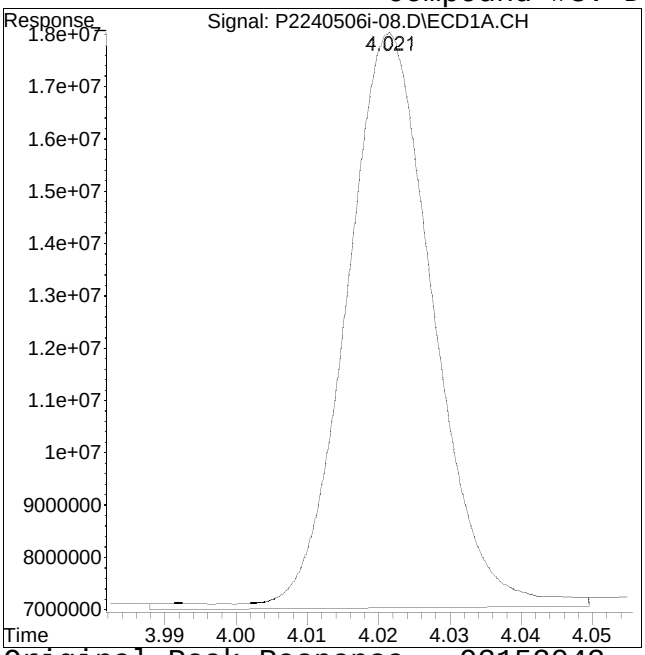
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



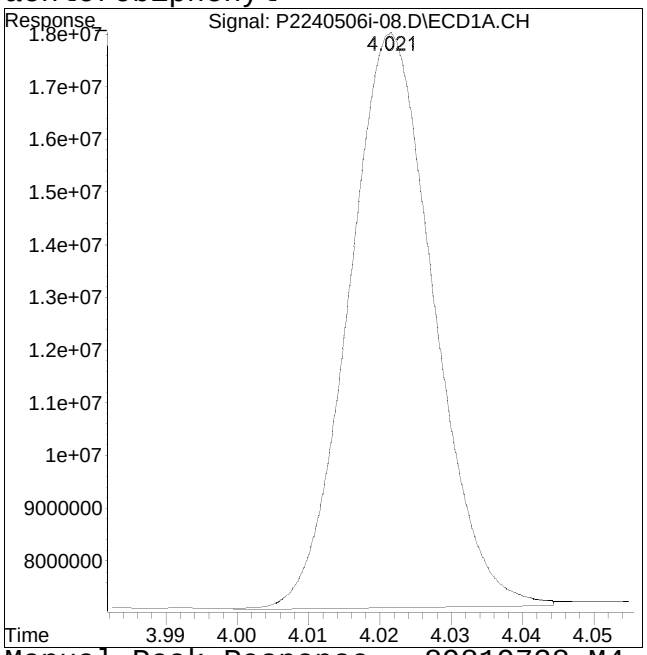
Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-08.D Operator : pest2:rmp
Date Inj'd : 5/6/2024 9:36 pm Instrument : Pest 2
Sample : il21660,42e,,pp 11447 Quant Date : 5/7/2024 3:12 pm

Compound #3: Decachlorobiphenyl



Original Peak Response = 93152043



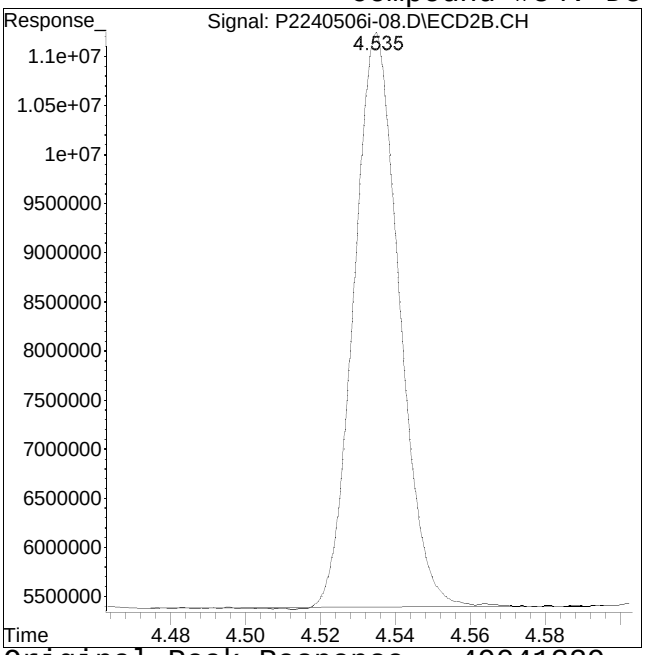
Manual Peak Response = 89819738 M4

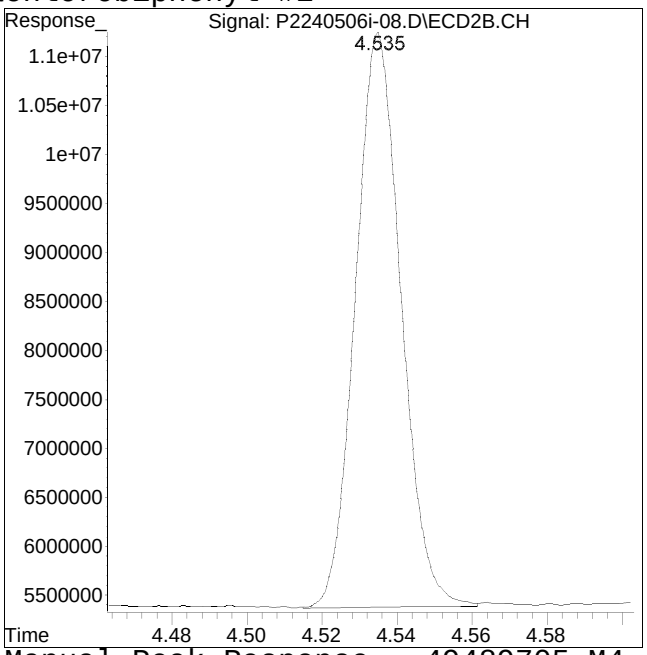
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-08.D Operator : pest2:rmp
Date Inj'd : 5/6/2024 9:36 pm Instrument : Pest 2
Sample : il21660,42e,,pp 11447 Quant Date : 5/7/2024 3:12 pm

Compound #54: Decachlorobiphenyl #2



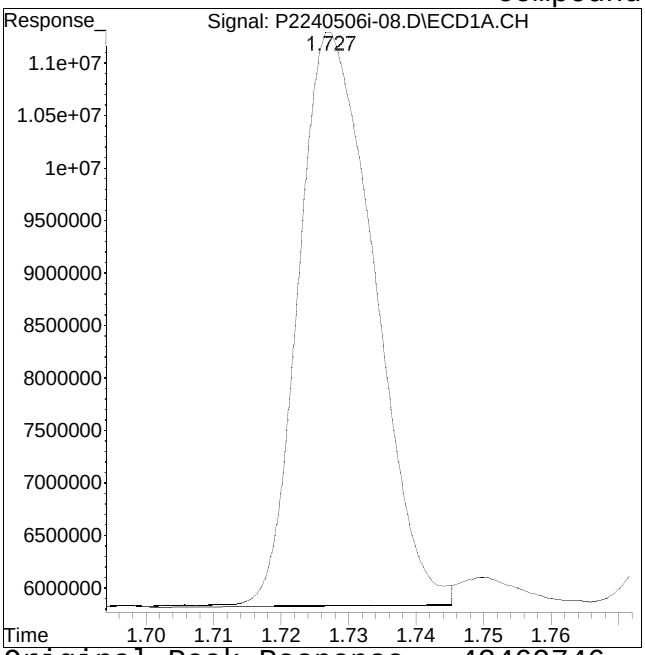


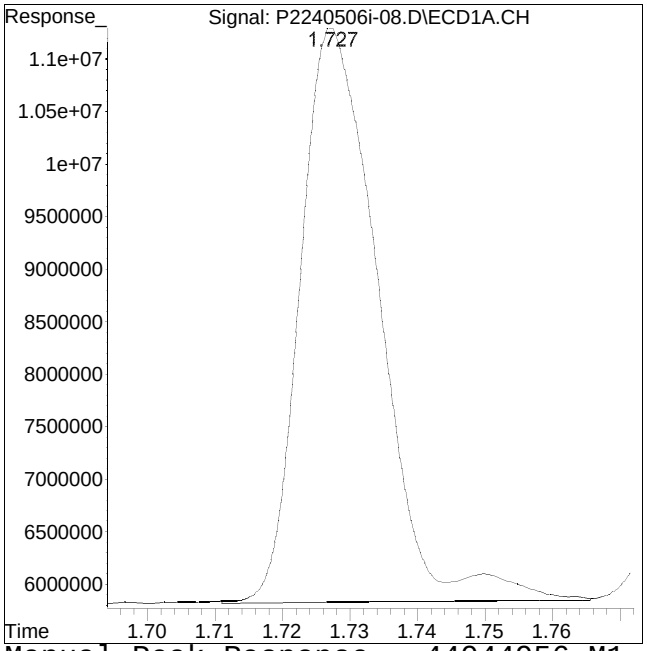
Original Peak Response = 49041339 Manual Peak Response = 49489705 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-08.D Operator : pest2:rmp
Date Inj'd : 5/6/2024 9:36 pm Instrument : Pest 2
Sample : il21660,42e,,pp 11447 Quant Date : 5/7/2024 3:12 pm

Compound #5: 1016-2



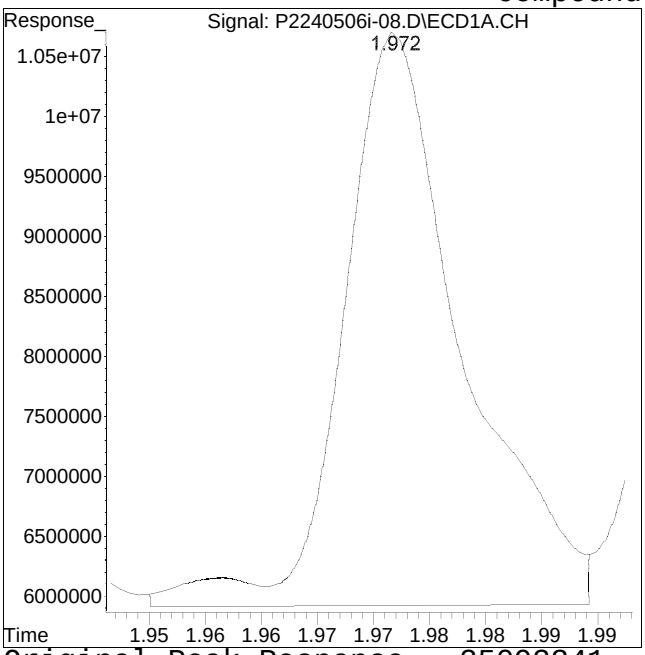


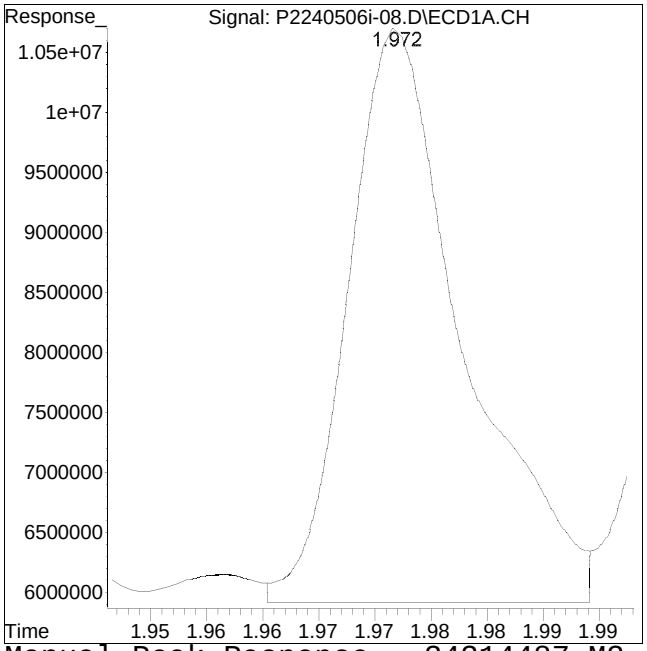
Original Peak Response = 42469746 Manual Peak Response = 44044956 M1
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-08.D Operator : pest2:rmp
Date Inj'd : 5/6/2024 9:36 pm Instrument : Pest 2
Sample : il21660,42e,,pp 11447 Quant Date : 5/7/2024 3:12 pm

Compound #7: 1016-4



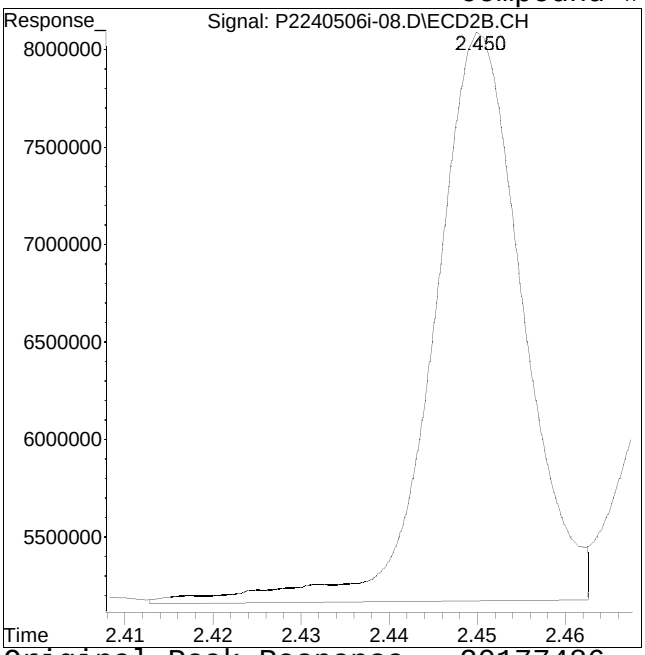


Original Peak Response = 35093341 Manual Peak Response = 34314487 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

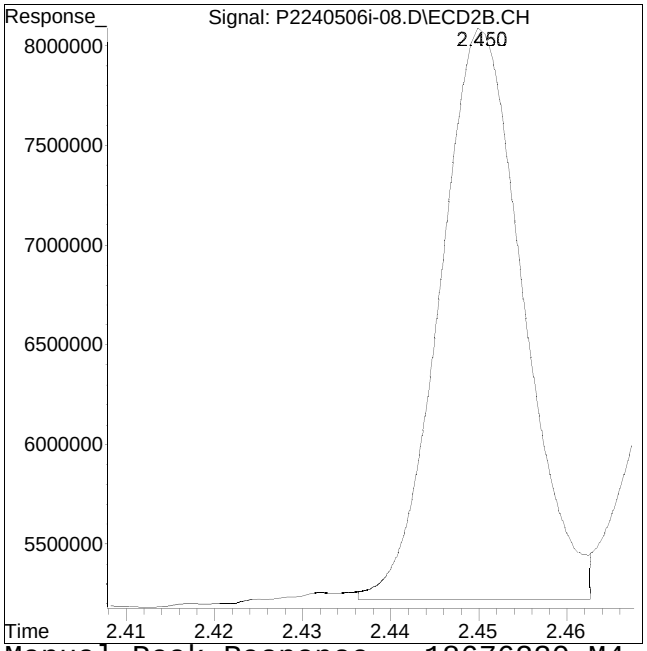
Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-08.D Operator : pest2:rmp
Date Inj'd : 5/6/2024 9:36 pm Instrument : Pest 2
Sample : il21660,42e,,pp 11447 Quant Date : 5/7/2024 3:12 pm

Compound #59: 1016-5 #2



Original Peak Response = 20177486



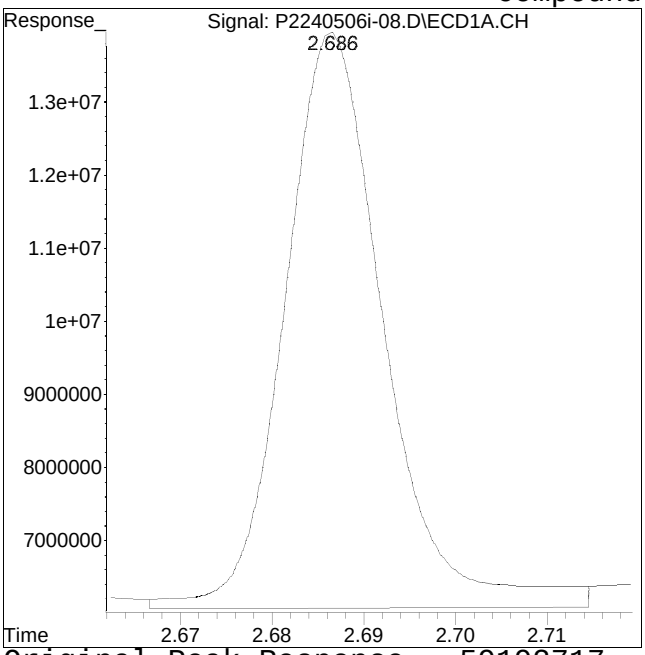
Manual Peak Response = 18676230 M4

M4 = Poor automated baseline construction.

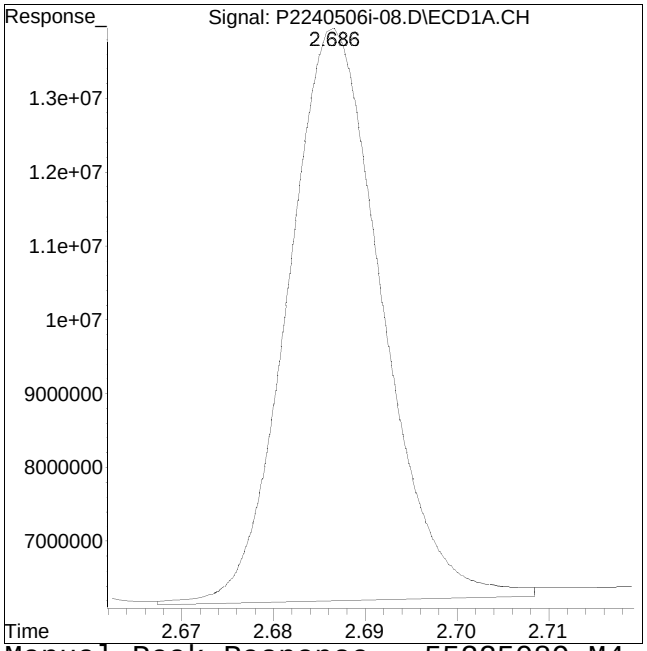
Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-08.D Operator : pest2:rmp
Date Inj'd : 5/6/2024 9:36 pm Instrument : Pest 2
Sample : il21660,42e,,pp 11447 Quant Date : 5/7/2024 3:12 pm

Compound #9: 1260-1



Original Peak Response = 59192717



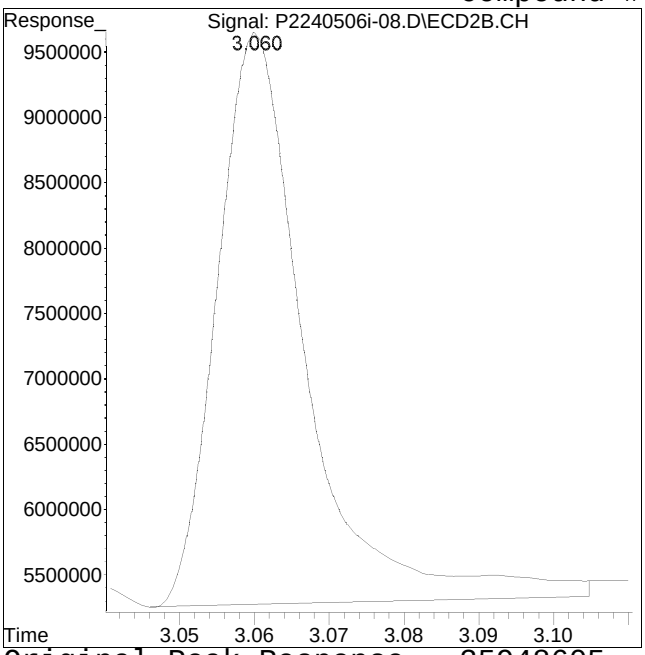
Manual Peak Response = 55225089 M4

M4 = Poor automated baseline construction.

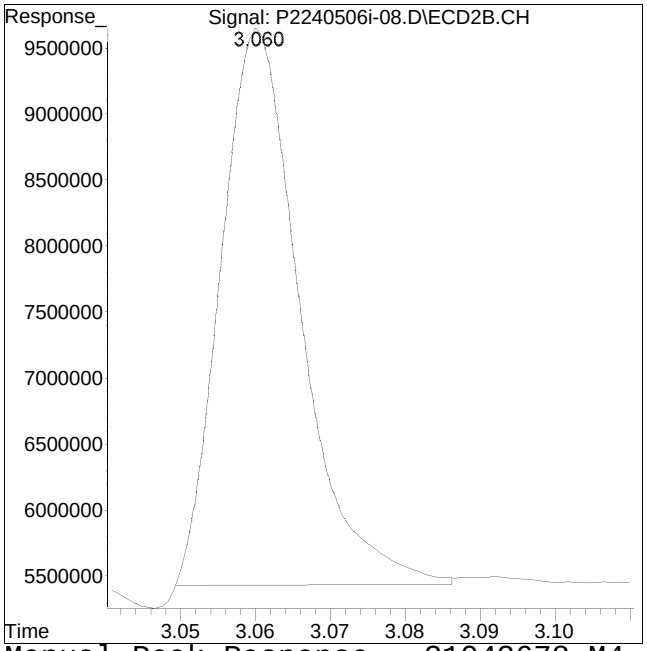
Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-08.D Operator : pest2:rmp
Date Inj'd : 5/6/2024 9:36 pm Instrument : Pest 2
Sample : il21660,42e,,pp 11447 Quant Date : 5/7/2024 3:12 pm

Compound #60: 1260-1 #2



Original Peak Response = 35948605



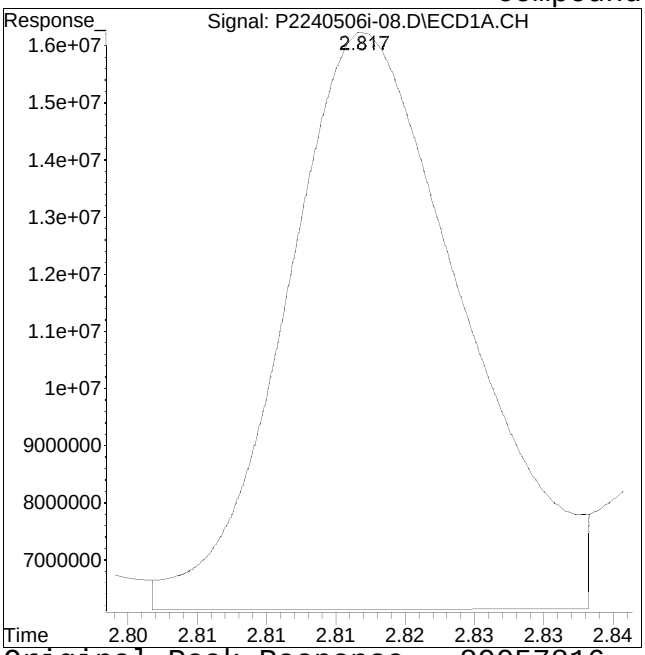
Manual Peak Response = 31043678 M4

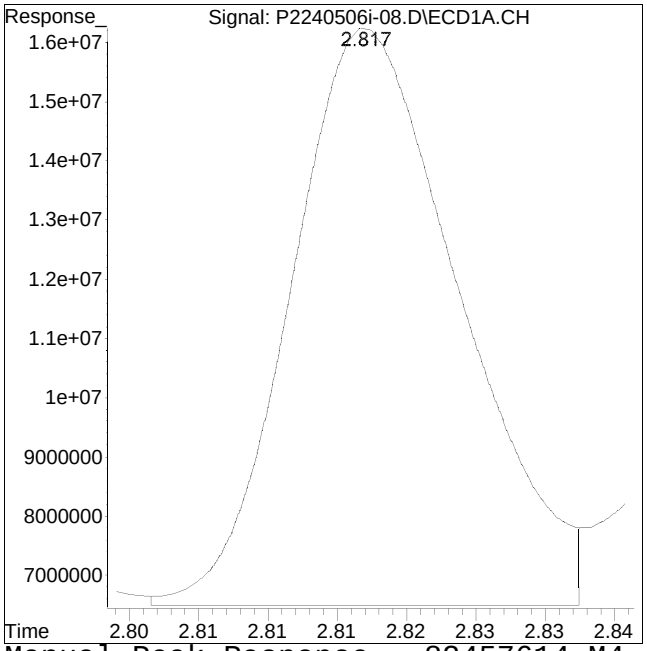
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-08.D Operator : pest2:rmp
Date Inj'd : 5/6/2024 9:36 pm Instrument : Pest 2
Sample : il21660,42e,,pp 11447 Quant Date : 5/7/2024 3:12 pm

Compound #10: 1260-2



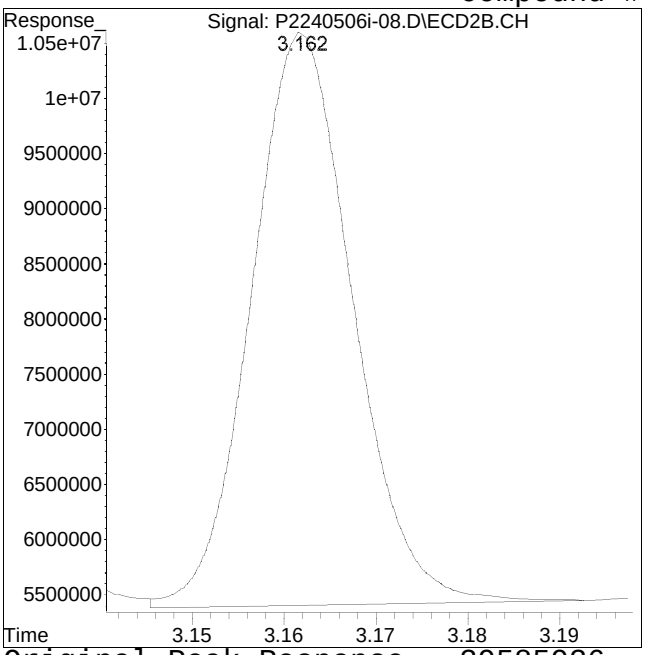


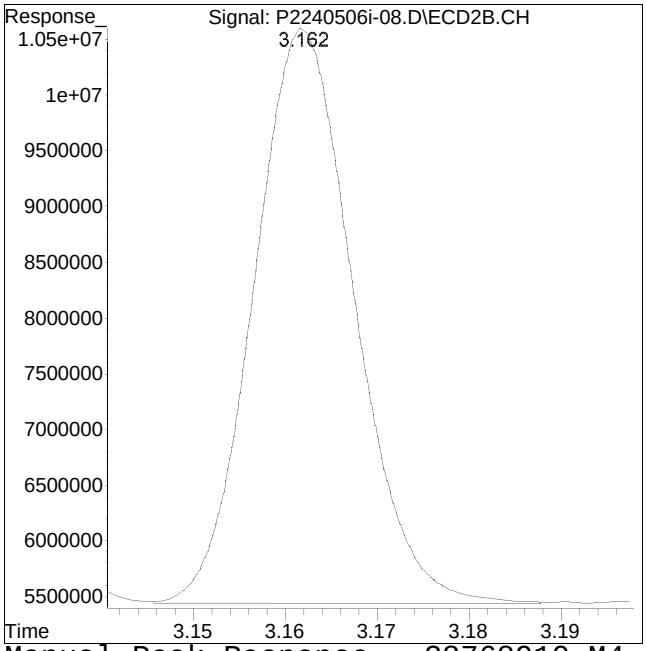
Original Peak Response = 89057816 Manual Peak Response = 82457614 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-08.D Operator : pest2:rmp
Date Inj'd : 5/6/2024 9:36 pm Instrument : Pest 2
Sample : il21660,42e,,pp 11447 Quant Date : 5/7/2024 3:12 pm

Compound #61: 1260-2 #2



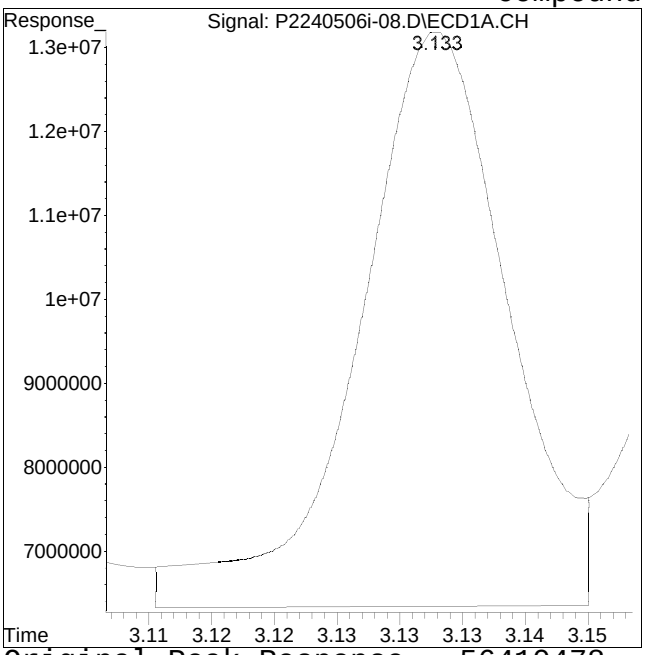


Original Peak Response = 39585936 Manual Peak Response = 38768910 M4
M4 = Poor automated baseline construction.

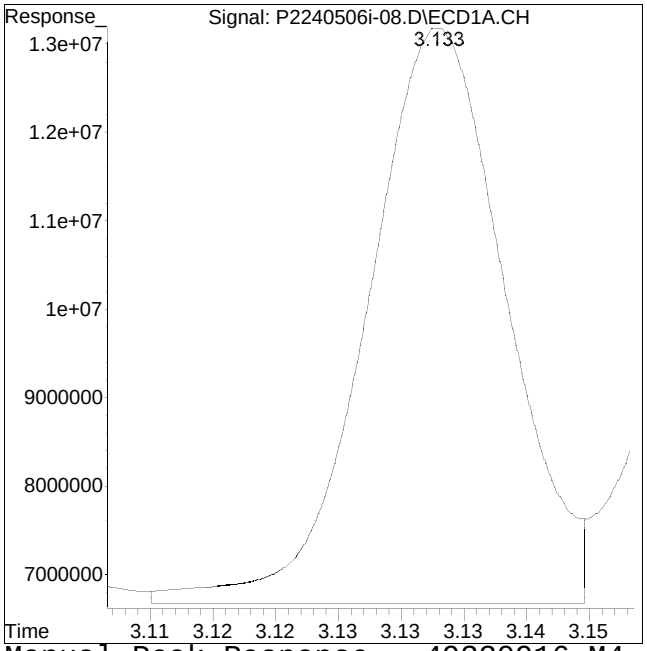
Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-08.D Operator : pest2:rmp
Date Inj'd : 5/6/2024 9:36 pm Instrument : Pest 2
Sample : il21660,42e,,pp 11447 Quant Date : 5/7/2024 3:12 pm

Compound #11: 1260-3



Original Peak Response = 56410478



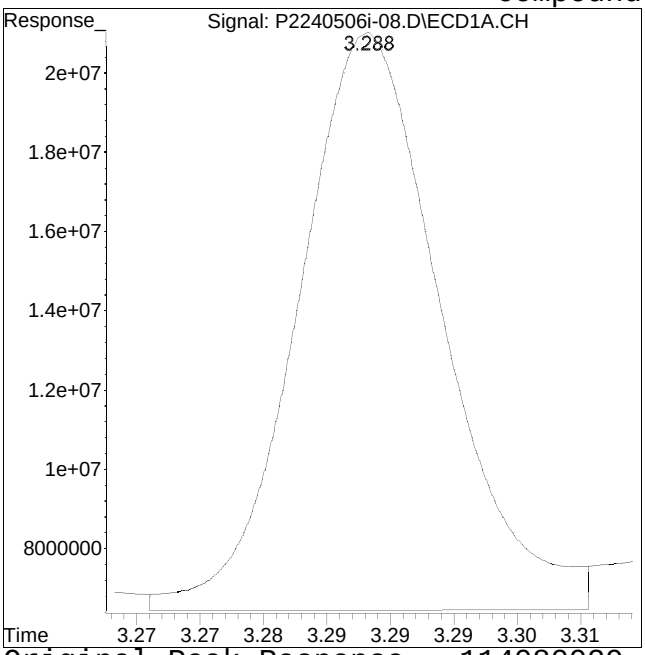
Manual Peak Response = 49330916 M4

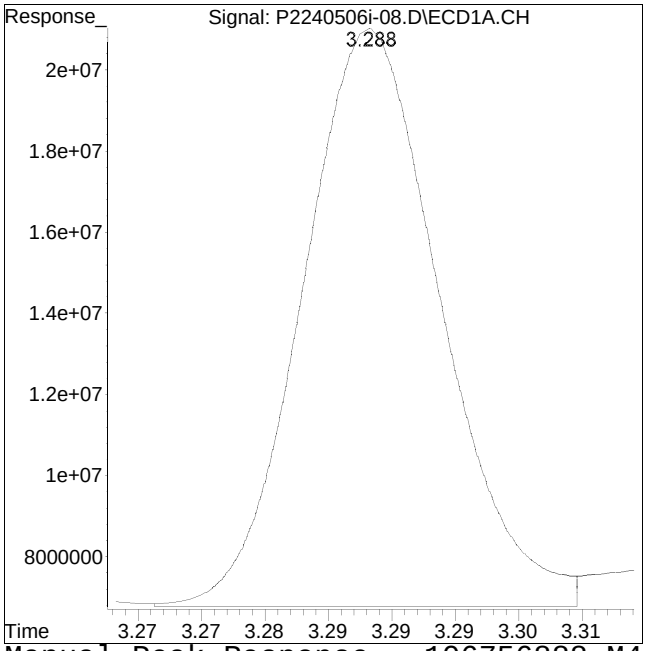
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-08.D Operator : pest2:rmp
Date Inj'd : 5/6/2024 9:36 pm Instrument : Pest 2
Sample : il21660,42e,,pp 11447 Quant Date : 5/7/2024 3:12 pm

Compound #12: 1260-4



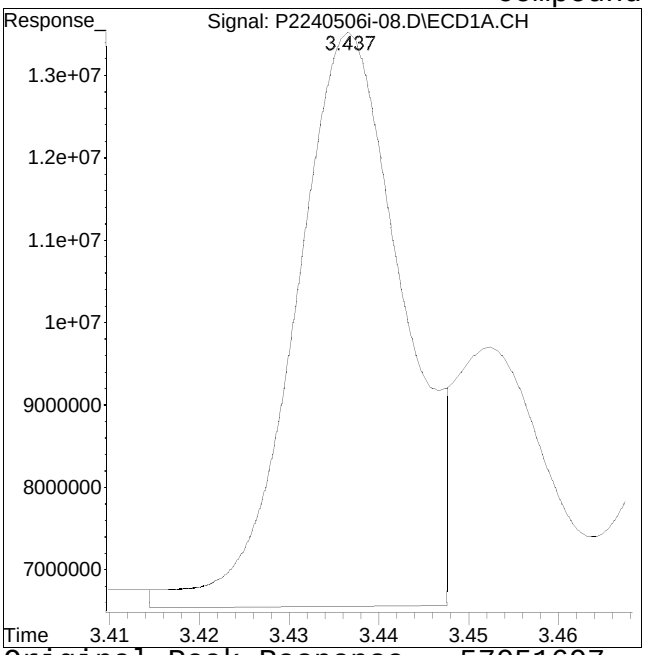


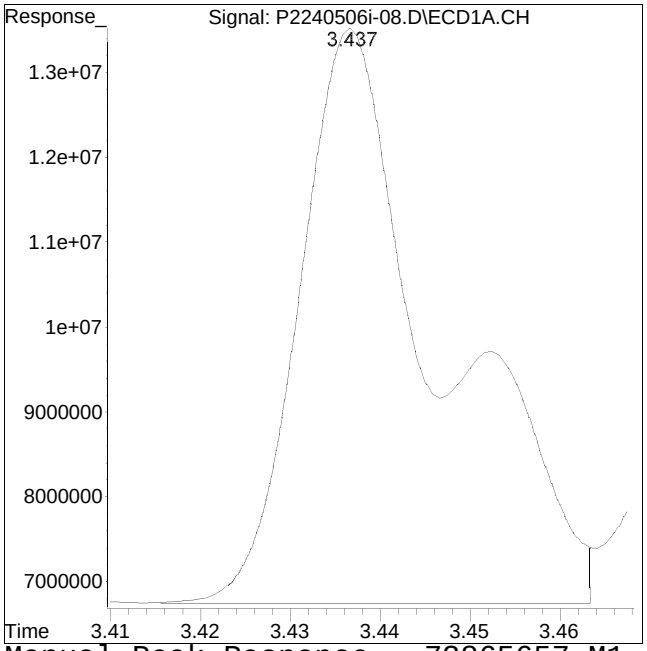
Original Peak Response = 114080929 Manual Peak Response = 106756888 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-08.D Operator : pest2:rmp
Date Inj'd : 5/6/2024 9:36 pm Instrument : Pest 2
Sample : il21660,42e,,pp 11447 Quant Date : 5/7/2024 3:12 pm

Compound #13: 1260-5





Original Peak Response = 57051697 Manual Peak Response = 73865657 M1
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240506I\
Data File : P2240506i-09.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 06 May 2024 9:46 pm
Operator : pest2:rmp
Sample : il31660,42e,,pp 11447
Misc : WG1918477,,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 9 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 07 15:12:53 2024
Quant Method : I:\PCB\Pest2\2024\240506I\P2_pcb_05_06_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Tue May 07 15:12:50 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1660_1br2nb	1.160	1.229	407.8E6	304.9E6	25.000	25.000
14) i	2154_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
23) i	4268_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
34) i	1248_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
40) i	3262_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	1.446	1.604	125.8E6	90520079	5.928	5.735
Spiked Amount	20.000	Range 30 - 150		Recovery =		29.64%#	28.68%#
3) s	Decachlorobi	4.021	4.535	162.9E6	89288357	2.685M4	11.498M4
Spiked Amount	20.000	Range 30 - 150		Recovery =		13.43%#	57.49%
	Target Compounds						
4) l1	1016-1	1.586	1.806	36249062	25493685	89.016	91.259
5) l1	1016-2	1.728	1.978	80757307	56271795	99.632	90.670
6) l1	1016-3	1.917	2.179	156.8E6	107.7E6	93.131	88.087
7) l1	1016-4	1.972	2.239	64161863	41654032	92.391	85.875
8) l1	1016-5	2.142	2.450	69303987	36552504	90.644M4	84.313
Sum	1016-1			407.2E6	267.7E6	464.814	440.205
Average	1016-1					92.963	88.041
9) l2	1260-1	2.686	3.061	99905923	59864552	82.817M4	73.045
10) l2	1260-2	2.817	3.162	155.3E6	75121033	3.250	77.855
11) l2	1260-3	3.133	3.555	97615758	59258669	85.330	75.289
12) l2	1260-4	3.289	3.684	200.6E6	115.2E6	8.236	90.108
13) l2	1260-5	3.437	3.886	139.3E6	80354238	11.929M1	89.485
Sum	1260-1			692.7E6	389.8E6	N.D.	N.D. D
Average	1260-1					38.312	81.156 D

Data Path : I:\PCB\Pest2\2024\240506I\
Data File : P2240506i-09.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 06 May 2024 9:46 pm
Operator : pest2:rmp
Sample : il31660,42e,,pp 11447
Misc : WG1918477,,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 9 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 07 15:12:53 2024
Quant Method : I:\PCB\Pest2\2024\240506I\P2_pcb_05_06_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Tue May 07 15:12:50 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
15) l3	1221-2	0.000	0.000	0	0	N.D. d	N.D. d
16) l3	1221-3	0.000	0.000	0	0	N.D. d	N.D. d
17) l3	1221-4	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1221-2			0	0	N.D.	N.D.
Average	1221-2					0.000	0.000
18) l4	1254-1	0.000	0.000	0	0	N.D. d	N.D. d
19) l4	1254-2	0.000	0.000	0	0	N.D. d	N.D. d
20) l4	1254-3	0.000	0.000	0	0	N.D. d	N.D. d
21) l4	1254-4	0.000	0.000	0	0	N.D. d	N.D. d
22) l4	1254-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1254-1			0	0	N.D.	N.D.
Average	1254-1					0.000	0.000
24) l6	1242-1	0.000	0.000	0	0	N.D. d	N.D. d
25) l6	1242-2	0.000	0.000	0	0	N.D. d	N.D. d
26) l6	1242-3	0.000	0.000	0	0	N.D. d	N.D. d
27) l6	1242-4	0.000	0.000	0	0	N.D. d	N.D. d
28) l6	1242-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1242-1			0	0	N.D.	N.D.
Average	1242-1					0.000	0.000
29) l9	1268-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l9	1268-2	0.000	0.000	0	0	N.D. d	N.D. d
31) l9	1268-3	0.000	0.000	0	0	N.D. d	N.D. d
32) l9	1268-4	0.000	0.000	0	0	N.D. d	N.D. d
33) l9	1268-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1268-1			0	0	N.D.	N.D.
Average	1268-1					0.000	0.000
35) l7	1248-1	0.000	0.000	0	0	N.D. d	N.D. d
36) l7	1248-2	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\PCB\Pest2\2024\240506I\
Data File : P2240506i-09.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 06 May 2024 9:46 pm
Operator : pest2:rmp
Sample : il31660,42e,,pp 11447
Misc : WG1918477,,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 9 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 07 15:12:53 2024
Quant Method : I:\PCB\Pest2\2024\240506I\P2_pcb_05_06_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Tue May 07 15:12:50 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
37) l7	1248-3	0.000	0.000	0	0	N.D. d	N.D. d
38) l7	1248-4	0.000	0.000	0	0	N.D. d	N.D. d
39) l7	1248-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1248-1			0	0	N.D.	N.D.
Average	1248-1					0.000	0.000
41) l5	1232-1	0.000	0.000	0	0	N.D. d	N.D. d
42) l5	1232-2	0.000	0.000	0	0	N.D. d	N.D. d
43) l5	1232-3	0.000	0.000	0	0	N.D. d	N.D. d
44) l5	1232-4	0.000	0.000	0	0	N.D. d	N.D. d
45) l5	1232-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1232-1			0	0	N.D.	N.D.
Average	1232-1					0.000	0.000
46) l8	1262-1	0.000	0.000	0	0	N.D. d	N.D. d
47) l8	1262-2	0.000	0.000	0	0	N.D. d	N.D. d
48) l8	1262-3	0.000	0.000	0	0	N.D. d	N.D. d
49) l8	1262-4	0.000	0.000	0	0	N.D. d	N.D. d
50) l8	1262-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1262-1			0	0	N.D.	N.D.
Average	1262-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	1262-1			0	0	N.D.	N.D.
Average	1262-1					0.000	0.000

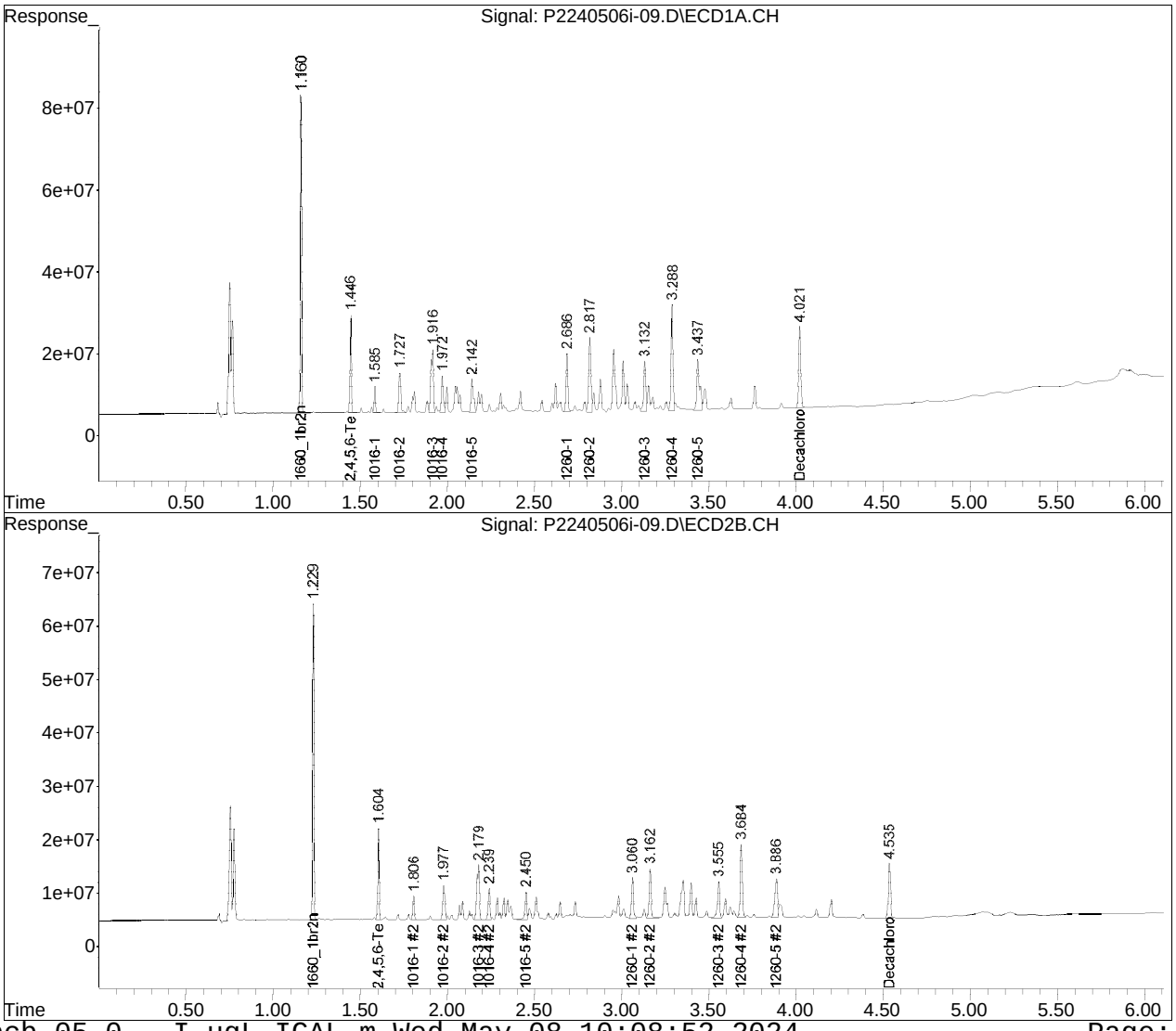
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PCB\Pest2\2024\240506I\
Data File : P2240506i-09.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 06 May 2024 9:46 pm
Operator : pest2:rmp
Sample : il31660,42e,,pp 11447
Misc : WG1918477,,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 9 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 07 15:12:53 2024
Quant Method : I:\PCB\Pest2\2024\240506I\P2_pcb_05_06_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Tue May 07 15:12:50 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

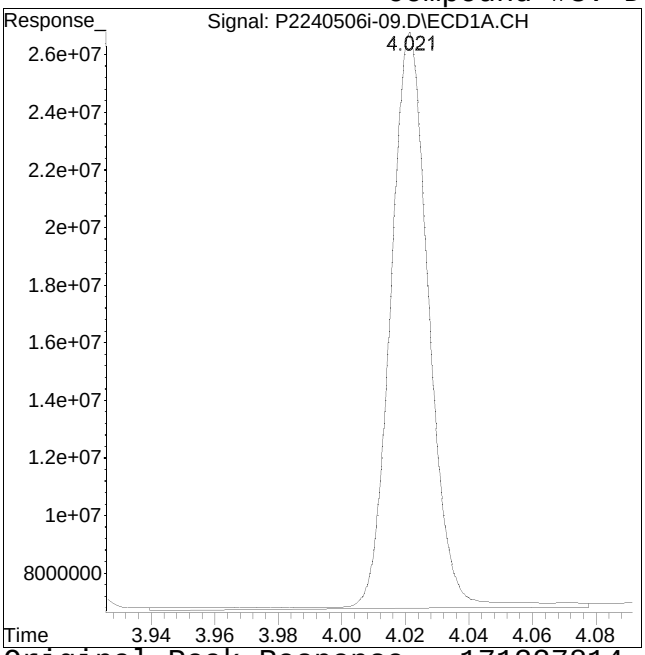
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

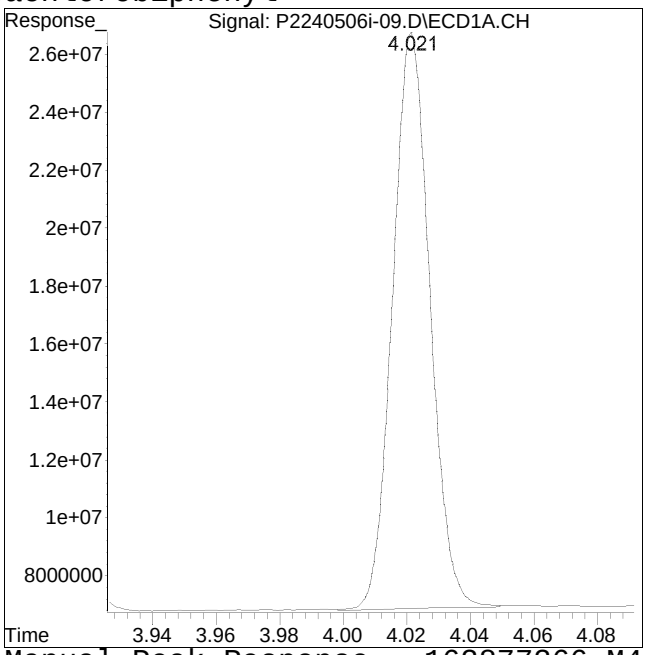


Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-09.D Operator : pest2:rmp
Date Inj'd : 5/6/2024 9:46 pm Instrument : Pest 2
Sample : il31660,42e,,pp 11447 Quant Date : 5/7/2024 3:12 pm

Compound #3: Decachlorobiphenyl



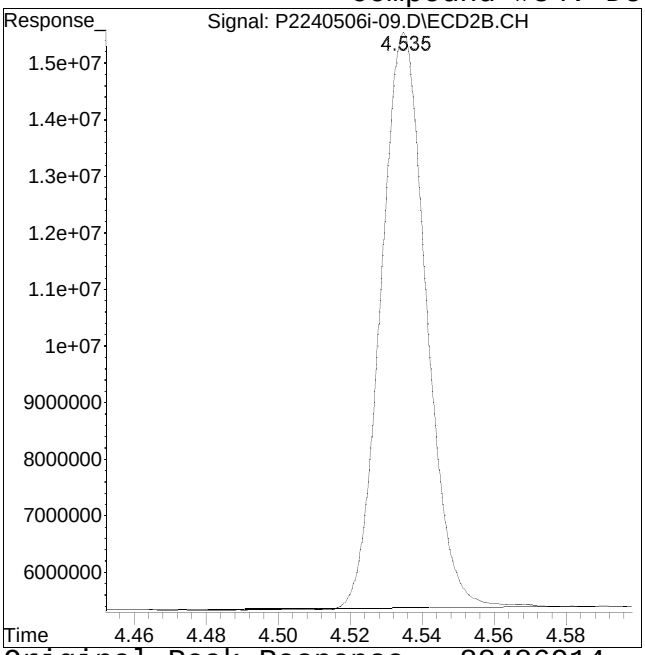


Original Peak Response = 171327814 Manual Peak Response = 162877366 M4
M4 = Poor automated baseline construction.

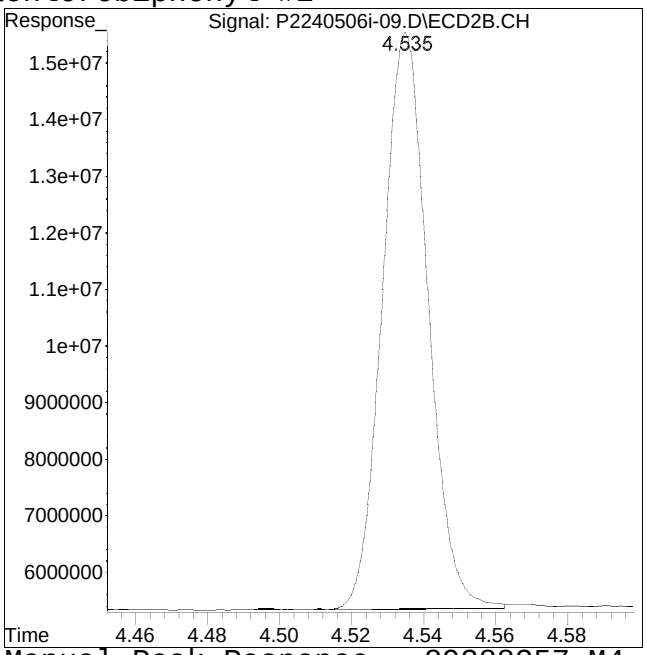
Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-09.D Operator : pest2:rmp
Date Inj'd : 5/6/2024 9:46 pm Instrument : Pest 2
Sample : il31660,42e,,pp 11447 Quant Date : 5/7/2024 3:12 pm

Compound #54: Decachlorobiphenyl #2



Original Peak Response = 88486914



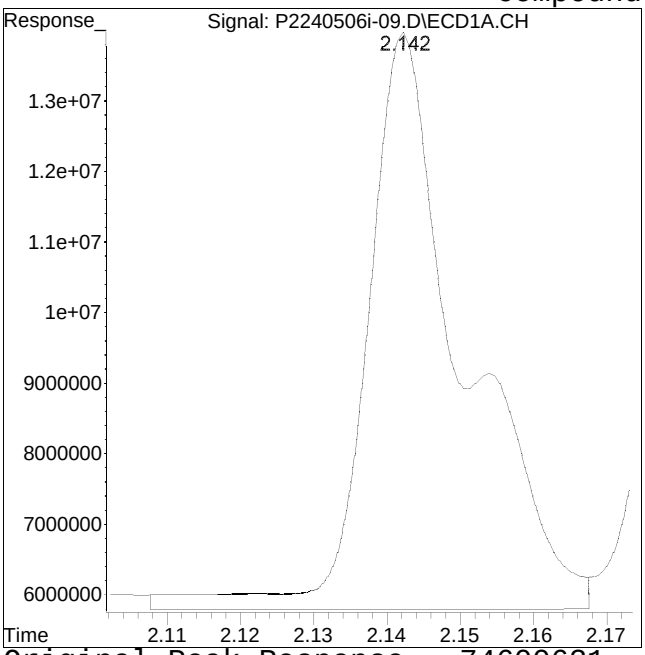
Manual Peak Response = 89288357 M4

M4 = Poor automated baseline construction.

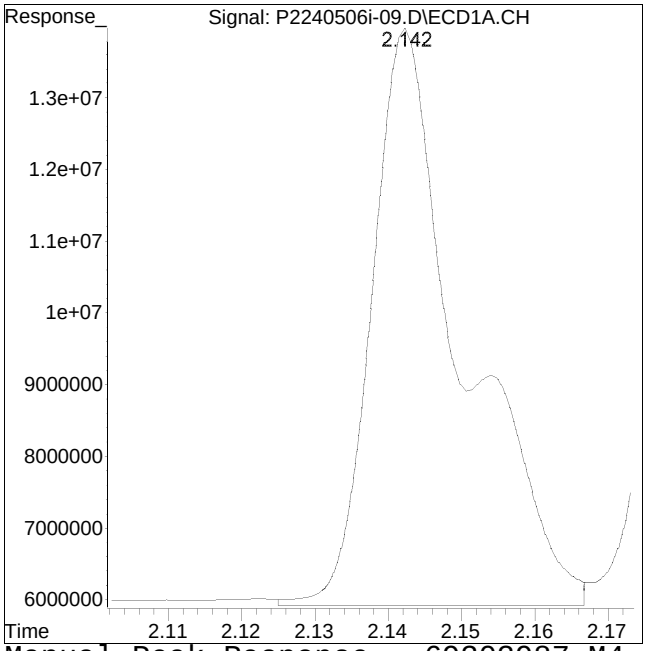
Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-09.D Operator : pest2:rmp
Date Inj'd : 5/6/2024 9:46 pm Instrument : Pest 2
Sample : il31660,42e,,pp 11447 Quant Date : 5/7/2024 3:12 pm

Compound #8: 1016-5



Original Peak Response = 74600631



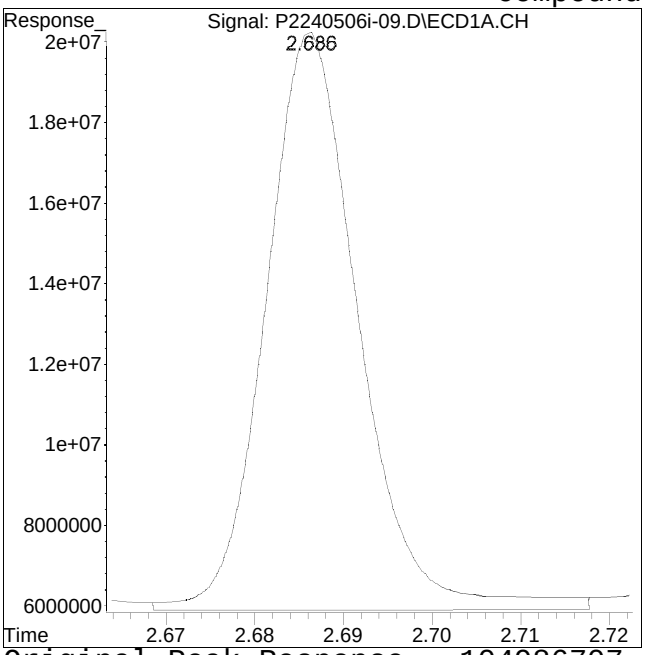
Manual Peak Response = 69303987 M4

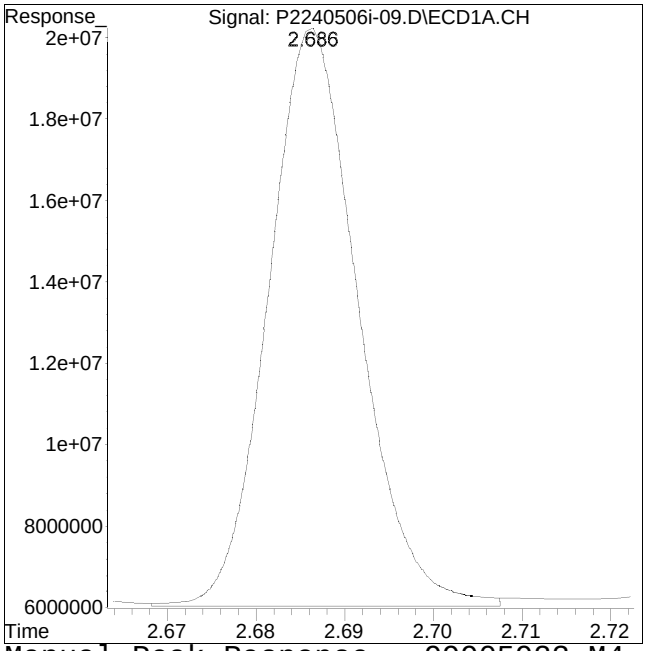
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-09.D Operator : pest2:rmp
Date Inj'd : 5/6/2024 9:46 pm Instrument : Pest 2
Sample : il31660,42e,,pp 11447 Quant Date : 5/7/2024 3:12 pm

Compound #9: 1260-1



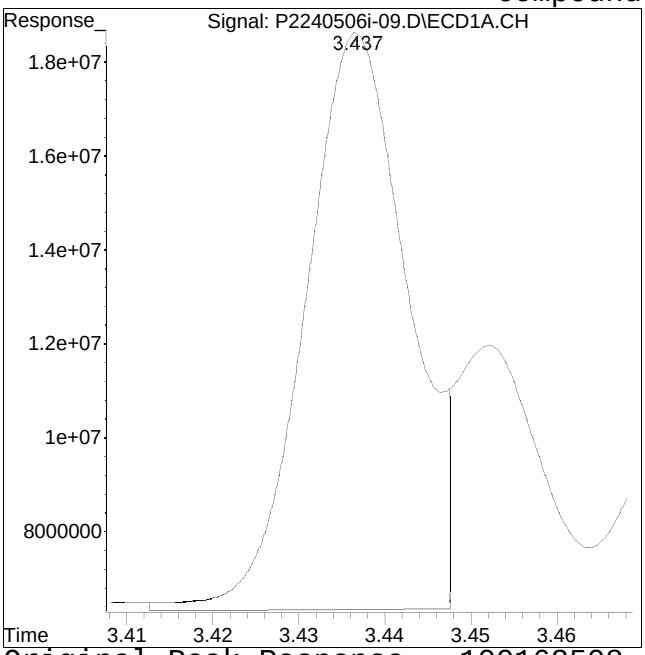


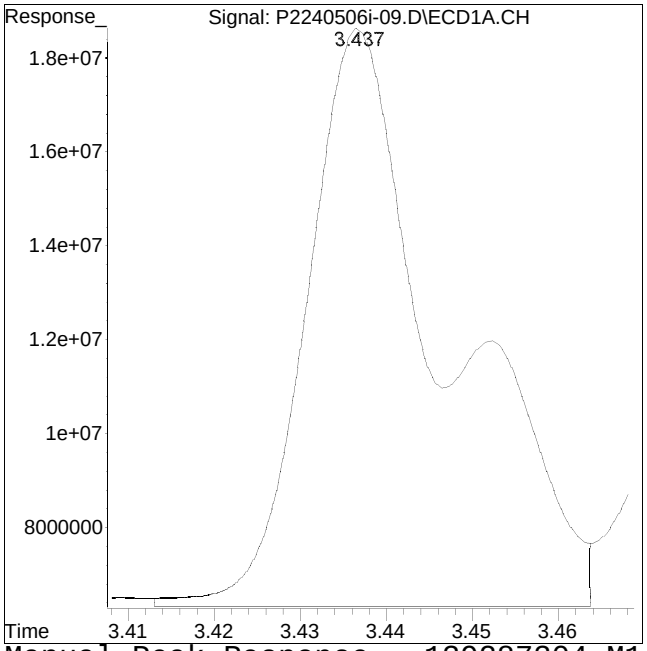
Original Peak Response = 104986707 Manual Peak Response = 99905923 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-09.D Operator : pest2:rmp
Date Inj'd : 5/6/2024 9:46 pm Instrument : Pest 2
Sample : il31660,42e,,pp 11447 Quant Date : 5/7/2024 3:12 pm

Compound #13: 1260-5





Original Peak Response = 100162508 Manual Peak Response = 139287304 M1
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240506I\
Data File : P2240506i-10.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 06 May 2024 9:55 pm
Operator : pest2:rmp
Sample : il41660,42e,,pp 11447
Misc : WG1918477,,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 10 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 07 15:13:08 2024
Quant Method : I:\PCB\Pest2\2024\240506I\P2_pcb_05_06_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Tue May 07 15:13:06 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1660_1br2nb	1.160	1.229	411.7E6	309.9E6	25.000	25.000
14) i	2154_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
23) i	4268_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
34) i	1248_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
40) i	3262_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	1.446	1.605	440.1E6	304.5E6	20.928	19.488
	Spiked Amount 20.000	Range 30 - 150		Recovery =		104.64%	97.44%
3) s	Decachlorobi	4.022	4.536	551.8E6	271.9E6	11.192	35.423
	Spiked Amount 20.000	Range 30 - 150		Recovery =		55.96%	177.12%#
	Target Compounds						
4) l1	1016-1	1.586	1.806	112.2E6	79371159	280.686	285.782
5) l1	1016-2	1.728	1.978	251.1E6	174.4E6	307.207	283.030
6) l1	1016-3	1.917	2.179	526.9E6	348.1E6	315.467	288.731
7) l1	1016-4	1.972	2.239	206.5E6	132.5E6	300.281	278.595
8) l1	1016-5	2.143	2.450	225.4E6	110.5E6	293.818	260.901
	Sum 1016-1			1322.1E6	844.8E6	1497.458	1397.039
	Average 1016-1					299.492	279.408
9) l2	1260-1	2.686	3.060	324.1E6	185.1E6	278.182	238.257
10) l2	1260-2	2.817	3.162	492.4E6	220.8E6	13.461	238.363
11) l2	1260-3	3.133	3.555	306.0E6	178.1E6	278.618	237.246
12) l2	1260-4	3.289	3.684	666.9E6	358.9E6	35.206	283.117
13) l2	1260-5	3.437	3.886	465.8E6	250.2E6	51.221M1	281.492
	Sum 1260-1			2255.2E6	1193.0E6	N.D.	N.D. D
	Average 1260-1					131.338	255.695 D
15) l3	1221-2	0.000	0.000	0	0	N.D. d	N.D. d
16) l3	1221-3	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\PCB\Pest2\2024\240506I\
Data File : P2240506i-10.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 06 May 2024 9:55 pm
Operator : pest2:rmp
Sample : il41660,42e,,pp 11447
Misc : WG1918477,,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 10 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 07 15:13:08 2024
Quant Method : I:\PCB\Pest2\2024\240506I\P2_pcb_05_06_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Tue May 07 15:13:06 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
17) l3	1221-4	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1221-2			0	0	N.D.	N.D.
Average	1221-2					0.000	0.000
18) l4	1254-1	0.000	0.000	0	0	N.D. d	N.D. d
19) l4	1254-2	0.000	0.000	0	0	N.D. d	N.D. d
20) l4	1254-3	0.000	0.000	0	0	N.D. d	N.D. d
21) l4	1254-4	0.000	0.000	0	0	N.D. d	N.D. d
22) l4	1254-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1254-1			0	0	N.D.	N.D.
Average	1254-1					0.000	0.000
24) l6	1242-1	0.000	0.000	0	0	N.D. d	N.D. d
25) l6	1242-2	0.000	0.000	0	0	N.D. d	N.D. d
26) l6	1242-3	0.000	0.000	0	0	N.D. d	N.D. d
27) l6	1242-4	0.000	0.000	0	0	N.D. d	N.D. d
28) l6	1242-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1242-1			0	0	N.D.	N.D.
Average	1242-1					0.000	0.000
29) l9	1268-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l9	1268-2	0.000	0.000	0	0	N.D. d	N.D. d
31) l9	1268-3	0.000	0.000	0	0	N.D. d	N.D. d
32) l9	1268-4	0.000	0.000	0	0	N.D. d	N.D. d
33) l9	1268-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1268-1			0	0	N.D.	N.D.
Average	1268-1					0.000	0.000
35) l7	1248-1	0.000	0.000	0	0	N.D. d	N.D. d
36) l7	1248-2	0.000	0.000	0	0	N.D. d	N.D. d
37) l7	1248-3	0.000	0.000	0	0	N.D. d	N.D. d
38) l7	1248-4	0.000	0.000	0	0	N.D. d	N.D. d
39) l7	1248-5	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240506I\
Data File : P2240506i-10.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 06 May 2024 9:55 pm
Operator : pest2:rmp
Sample : il41660,42e,,pp 11447
Misc : WG1918477,,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 10 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 07 15:13:08 2024
Quant Method : I:\PCB\Pest2\2024\240506I\P2_pcb_05_06_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Tue May 07 15:13:06 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Sum	1248-1			0	0	N.D.	N.D.
Average	1248-1					0.000	0.000
41) l5	1232-1	0.000	0.000	0	0	N.D. d	N.D. d
42) l5	1232-2	0.000	0.000	0	0	N.D. d	N.D. d
43) l5	1232-3	0.000	0.000	0	0	N.D. d	N.D. d
44) l5	1232-4	0.000	0.000	0	0	N.D. d	N.D. d
45) l5	1232-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1232-1			0	0	N.D.	N.D.
Average	1232-1					0.000	0.000
46) l8	1262-1	0.000	0.000	0	0	N.D. d	N.D. d
47) l8	1262-2	0.000	0.000	0	0	N.D. d	N.D. d
48) l8	1262-3	0.000	0.000	0	0	N.D. d	N.D. d
49) l8	1262-4	0.000	0.000	0	0	N.D. d	N.D. d
50) l8	1262-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1262-1			0	0	N.D.	N.D.
Average	1262-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	1262-1			0	0	N.D.	N.D.
Average	1262-1					0.000	0.000

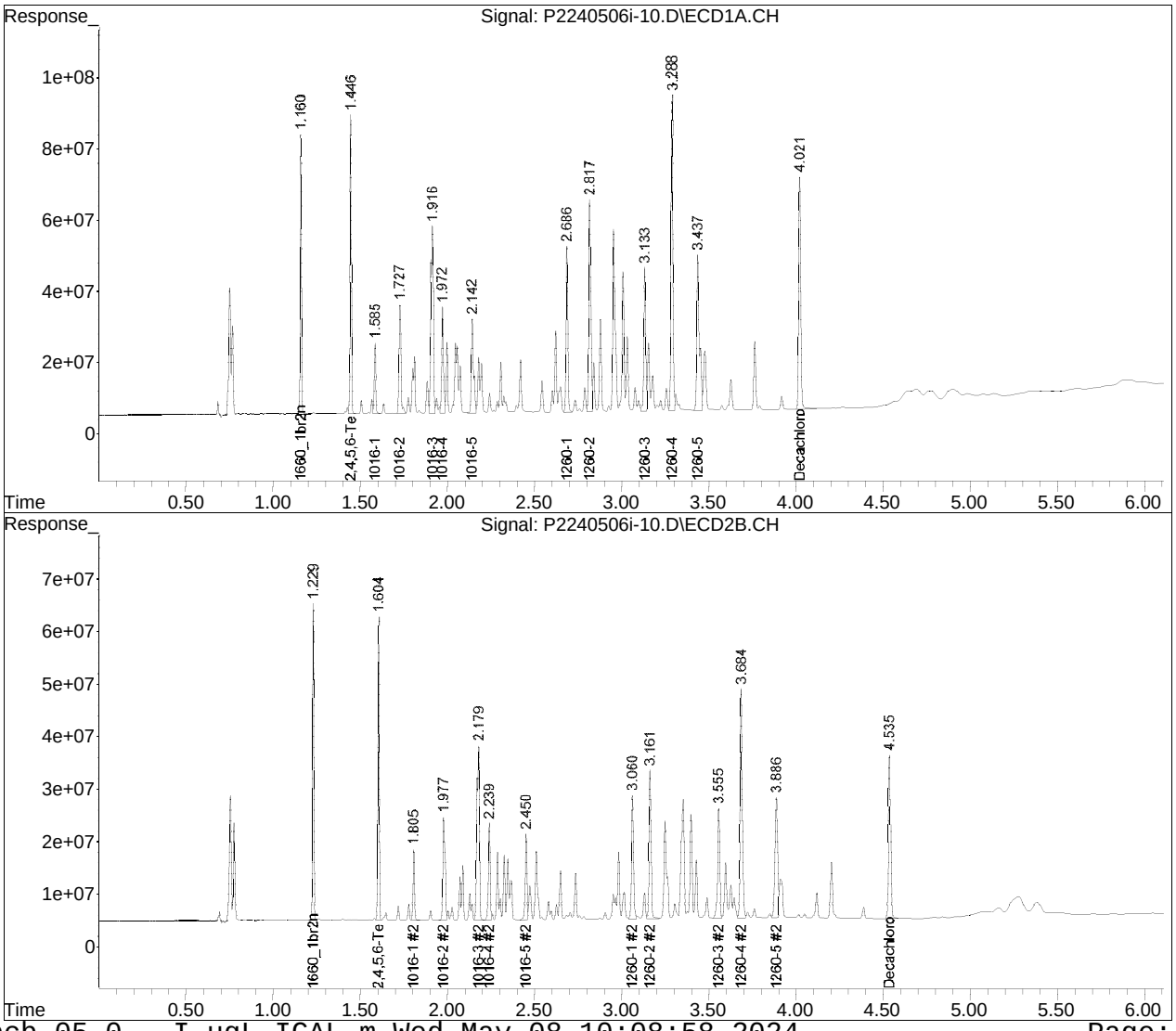
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PCB\Pest2\2024\240506I\
Data File : P2240506i-10.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 06 May 2024 9:55 pm
Operator : pest2:rmp
Sample : il41660,42e,,pp 11447
Misc : WG1918477,,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 10 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 07 15:13:08 2024
Quant Method : I:\PCB\Pest2\2024\240506I\P2_pcb_05_06_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Tue May 07 15:13:06 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

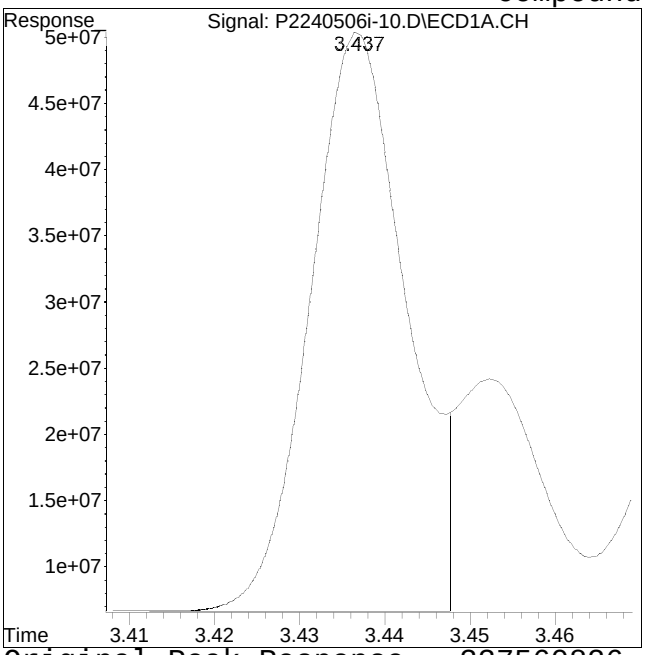
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

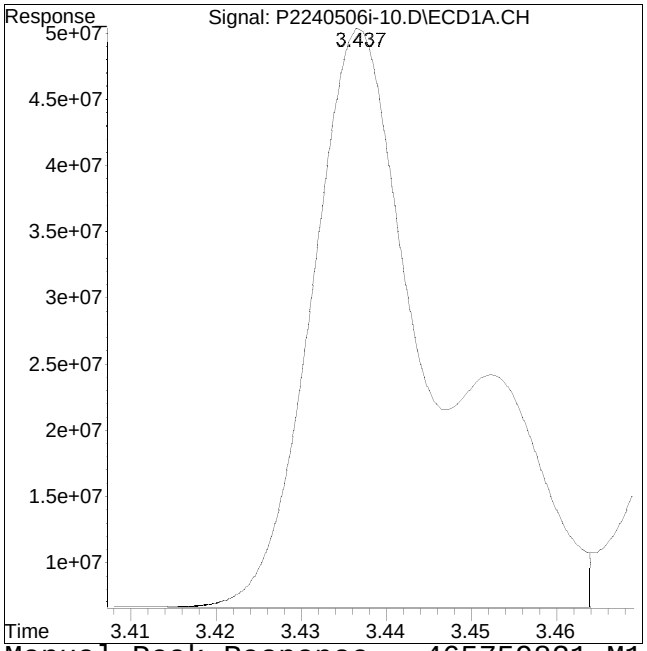


Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-10.D Operator : pest2:rmp
Date Inj'd : 5/6/2024 9:55 pm Instrument : Pest 2
Sample : il41660,42e,,pp 11447 Quant Date : 5/7/2024 3:13 pm

Compound #13: 1260-5





Original Peak Response = 337560826 Manual Peak Response = 465759821 M1
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240506I\
Data File : P2240506i-11.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 06 May 2024 10:04 pm
Operator : pest2:rmp
Sample : il51660,42e,,pp 11447
Misc : WG1918477,,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 11 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 07 15:13:23 2024
Quant Method : I:\PCB\Pest2\2024\240506I\P2_pcb_05_06_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Tue May 07 15:13:20 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1660_1br2nb	1.160	1.230	415.5E6	312.5E6	25.000	25.000
14) i	2154_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
23) i	4268_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
34) i	1248_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
40) i	3262_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	1.446	1.605	709.8E6	477.1E6	33.443	30.273
	Spiked Amount	20.000	Range 30 - 150		Recovery =	167.21%#	151.36%#
3) s	Decachlorobi	4.022	4.536	878.0E6	426.7E6	17.644	55.122
	Spiked Amount	20.000	Range 30 - 150		Recovery =	88.22%	275.61%#
	Target Compounds						
4) l1	1016-1	1.586	1.807	175.4E6	121.0E6	434.757	431.996
5) l1	1016-2	1.727	1.978	392.1E6	263.3E6	475.280M1	423.742
6) l1	1016-3	1.917	2.179	836.6E6	534.7E6	496.332	439.704
7) l1	1016-4	1.972	2.239	325.4E6	201.9E6	468.913M3	421.018M3
8) l1	1016-5	2.143	2.450	354.7E6	165.1E6	458.196	386.567
Sum	1016-1			2084.3E6	1285.9E6	2333.478	2103.027
Average	1016-1					466.696	420.605
9) l2	1260-1	2.687	3.061	510.9E6	302.2E6	434.496	385.766
10) l2	1260-2	2.817	3.163	779.2E6	358.7E6	21.109	383.873
11) l2	1260-3	3.133	3.555	486.1E6	279.5E6	438.536	369.268
12) l2	1260-4	3.289	3.685	1064.5E6	561.4E6	55.681	439.112
13) l2	1260-5	3.437	3.887	741.6E6	390.9E6	81.944M1	436.141
Sum	1260-1			3582.3E6	1892.7E6	N.D.	N.D. D
Average	1260-1					206.353	402.832 D

Data Path : I:\PCB\Pest2\2024\240506I\
Data File : P2240506i-11.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 06 May 2024 10:04 pm
Operator : pest2:rmp
Sample : il51660,42e,,pp 11447
Misc : WG1918477,,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 11 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 07 15:13:23 2024
Quant Method : I:\PCB\Pest2\2024\240506I\P2_pcb_05_06_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Tue May 07 15:13:20 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
15) l3	1221-2	0.000	0.000	0	0	N.D. d	N.D. d
16) l3	1221-3	0.000	0.000	0	0	N.D. d	N.D. d
17) l3	1221-4	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1221-2			0	0	N.D.	N.D.
Average	1221-2					0.000	0.000
18) l4	1254-1	0.000	0.000	0	0	N.D. d	N.D. d
19) l4	1254-2	0.000	0.000	0	0	N.D. d	N.D. d
20) l4	1254-3	0.000	0.000	0	0	N.D. d	N.D. d
21) l4	1254-4	0.000	0.000	0	0	N.D. d	N.D. d
22) l4	1254-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1254-1			0	0	N.D.	N.D.
Average	1254-1					0.000	0.000
24) l6	1242-1	0.000	0.000	0	0	N.D. d	N.D. d
25) l6	1242-2	0.000	0.000	0	0	N.D. d	N.D. d
26) l6	1242-3	0.000	0.000	0	0	N.D. d	N.D. d
27) l6	1242-4	0.000	0.000	0	0	N.D. d	N.D. d
28) l6	1242-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1242-1			0	0	N.D.	N.D.
Average	1242-1					0.000	0.000
29) l9	1268-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l9	1268-2	0.000	0.000	0	0	N.D. d	N.D. d
31) l9	1268-3	0.000	0.000	0	0	N.D. d	N.D. d
32) l9	1268-4	0.000	0.000	0	0	N.D. d	N.D. d
33) l9	1268-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1268-1			0	0	N.D.	N.D.
Average	1268-1					0.000	0.000
35) l7	1248-1	0.000	0.000	0	0	N.D. d	N.D. d
36) l7	1248-2	0.000	0.000	0	0	N.D. d	N.D. d
37) l7	1248-3	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\PCB\Pest2\2024\240506I\
Data File : P2240506i-11.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 06 May 2024 10:04 pm
Operator : pest2:rmp
Sample : il51660,42e,,pp 11447
Misc : WG1918477,,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 11 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 07 15:13:23 2024
Quant Method : I:\PCB\Pest2\2024\240506I\P2_pcb_05_06_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Tue May 07 15:13:20 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
38) l7 1248-4	0.000	0.000	0	0	N.D. d	N.D. d
39) l7 1248-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1248-1			0	0	N.D.	N.D.
Average 1248-1					0.000	0.000
41) l5 1232-1	0.000	0.000	0	0	N.D. d	N.D. d
42) l5 1232-2	0.000	0.000	0	0	N.D. d	N.D. d
43) l5 1232-3	0.000	0.000	0	0	N.D. d	N.D. d
44) l5 1232-4	0.000	0.000	0	0	N.D. d	N.D. d
45) l5 1232-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1232-1			0	0	N.D.	N.D.
Average 1232-1					0.000	0.000
46) l8 1262-1	0.000	0.000	0	0	N.D. d	N.D. d
47) l8 1262-2	0.000	0.000	0	0	N.D. d	N.D. d
48) l8 1262-3	0.000	0.000	0	0	N.D. d	N.D. d
49) l8 1262-4	0.000	0.000	0	0	N.D. d	N.D. d
50) l8 1262-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1262-1			0	0	N.D.	N.D.
Average 1262-1					0.000	0.000
SemiQuant Compounds - Not Calibrated on this Instrument						
Sum 1262-1			0	0	N.D.	N.D.
Average 1262-1					0.000	0.000

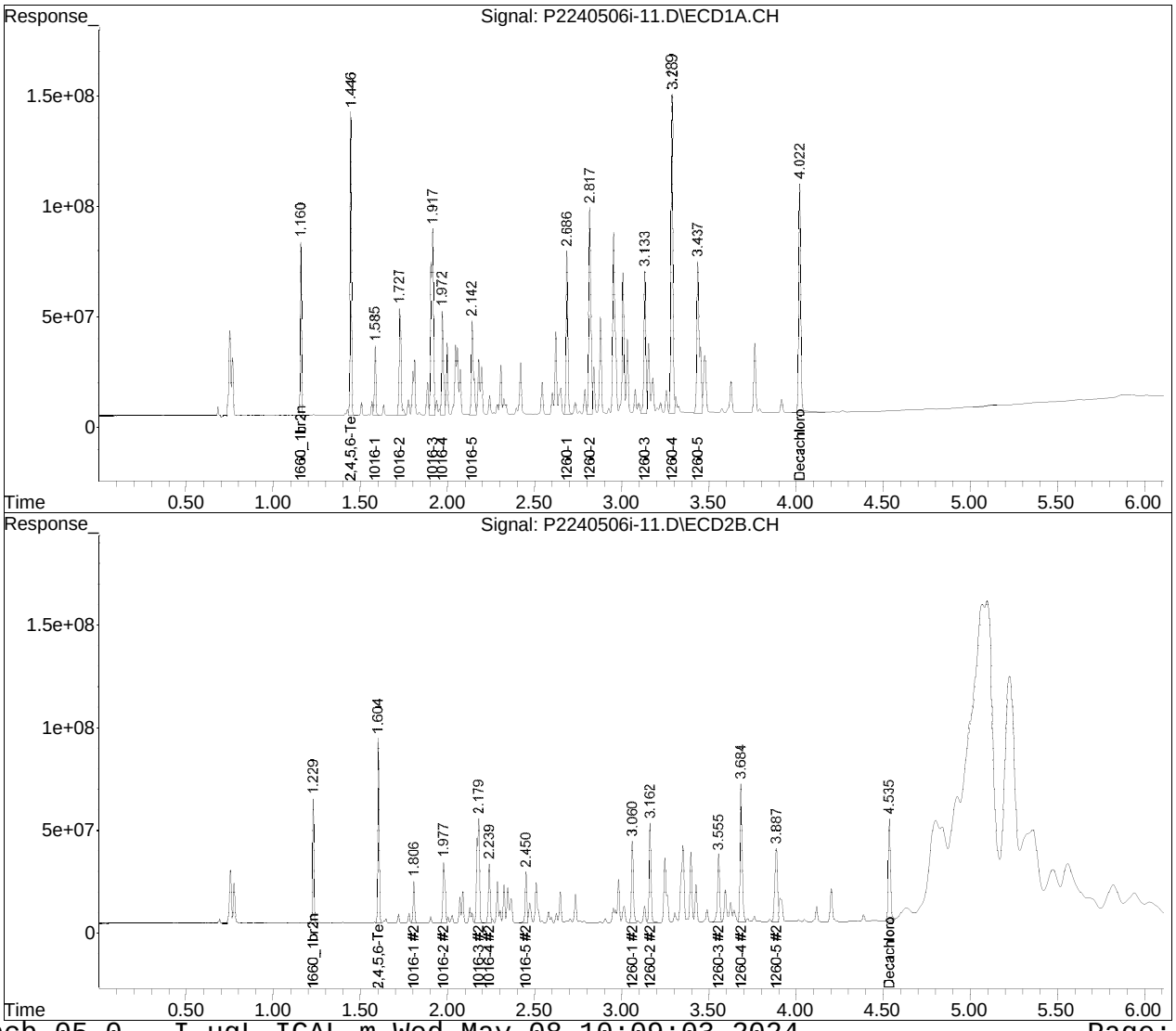
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PCB\Pest2\2024\240506I\
Data File : P2240506i-11.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 06 May 2024 10:04 pm
Operator : pest2:rmp
Sample : il51660,42e,,pp 11447
Misc : WG1918477,,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 11 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 07 15:13:23 2024
Quant Method : I:\PCB\Pest2\2024\240506I\P2_pcb_05_06_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Tue May 07 15:13:20 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

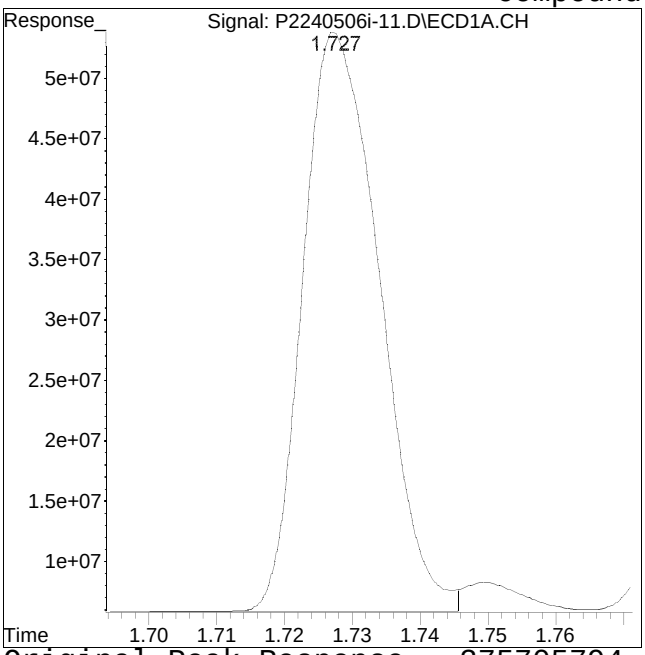
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

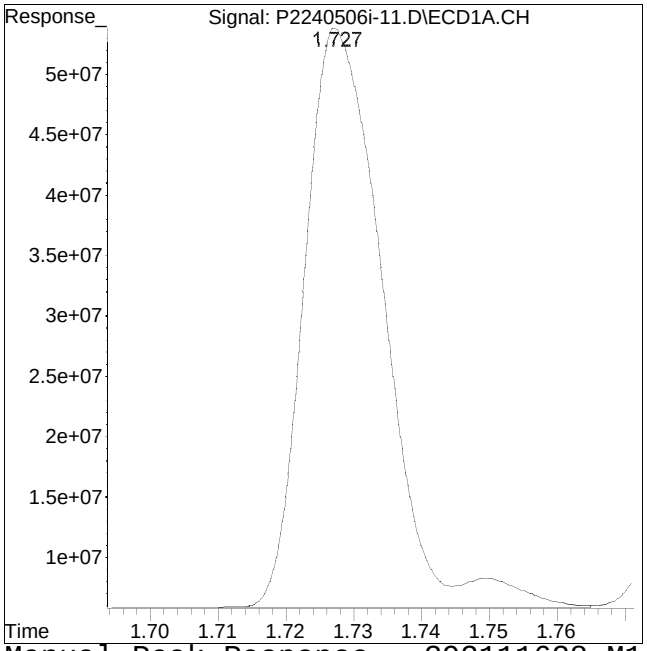


Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-11.D Operator : pest2:rmp
Date Inj'd : 5/6/2024 10:04 pm Instrument : Pest 2
Sample : il51660,42e,,pp 11447 Quant Date : 5/7/2024 3:13 pm

Compound #5: 1016-2



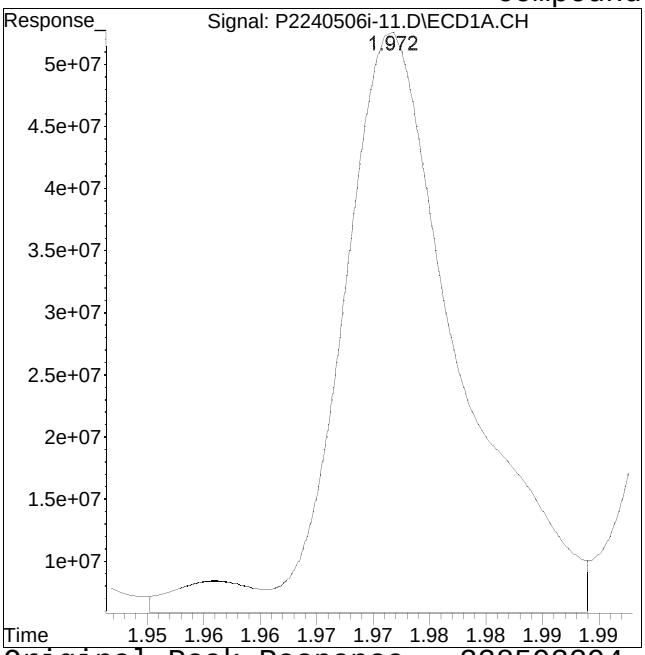


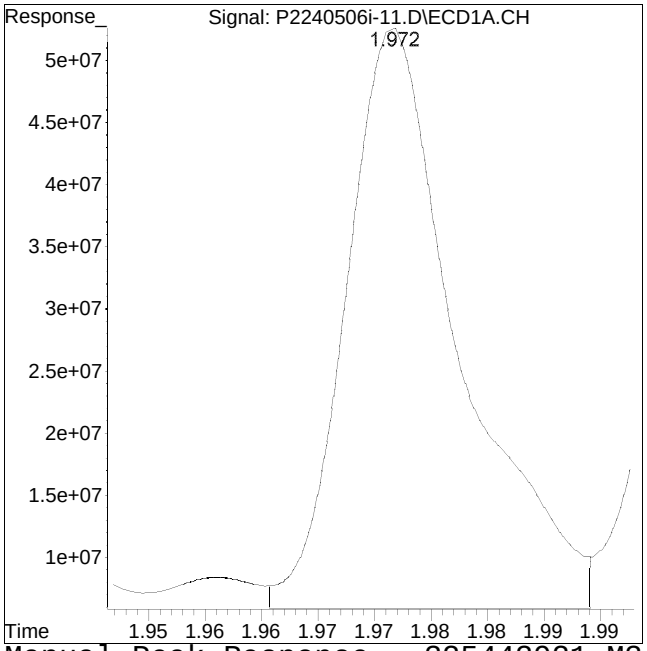
Original Peak Response = 375705794 Manual Peak Response = 392111628 M1
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-11.D Operator : pest2:rmp
Date Inj'd : 5/6/2024 10:04 pm Instrument : Pest 2
Sample : il51660,42e,,pp 11447 Quant Date : 5/7/2024 3:13 pm

Compound #7: 1016-4



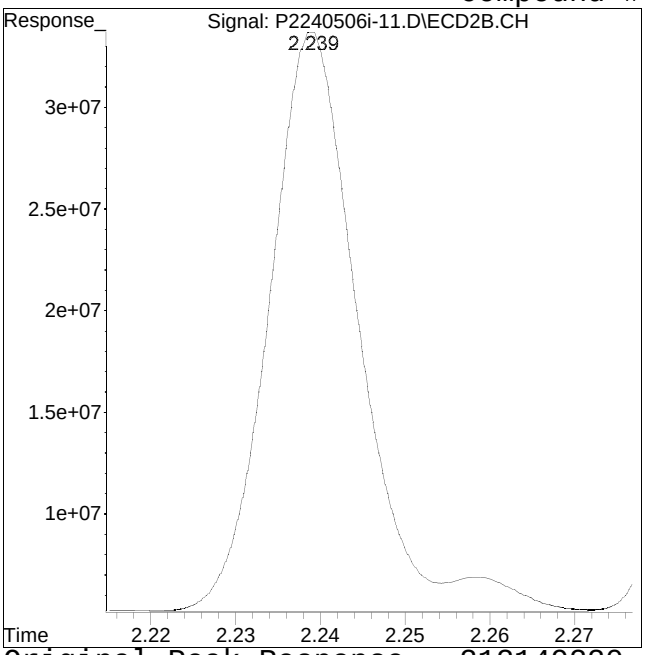


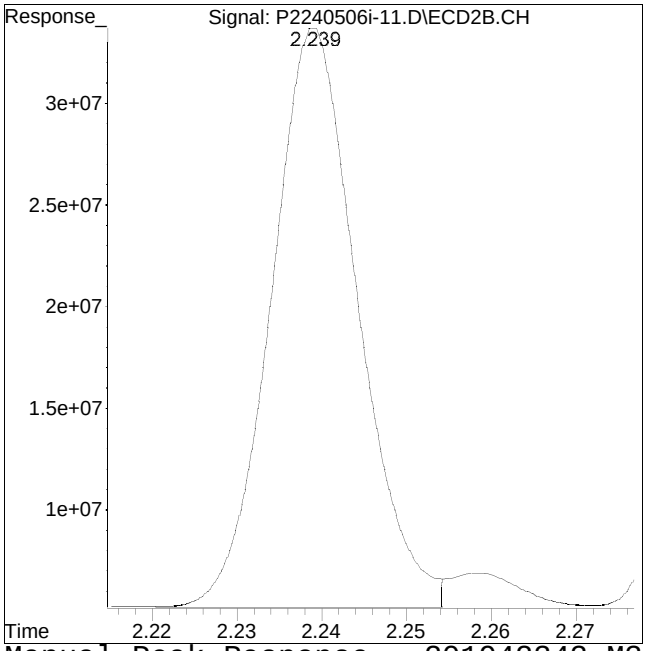
Original Peak Response = 338593394 Manual Peak Response = 325443921 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-11.D Operator : pest2:rmp
Date Inj'd : 5/6/2024 10:04 pm Instrument : Pest 2
Sample : il51660,42e,,pp 11447 Quant Date : 5/7/2024 3:13 pm

Compound #58: 1016-4 #2



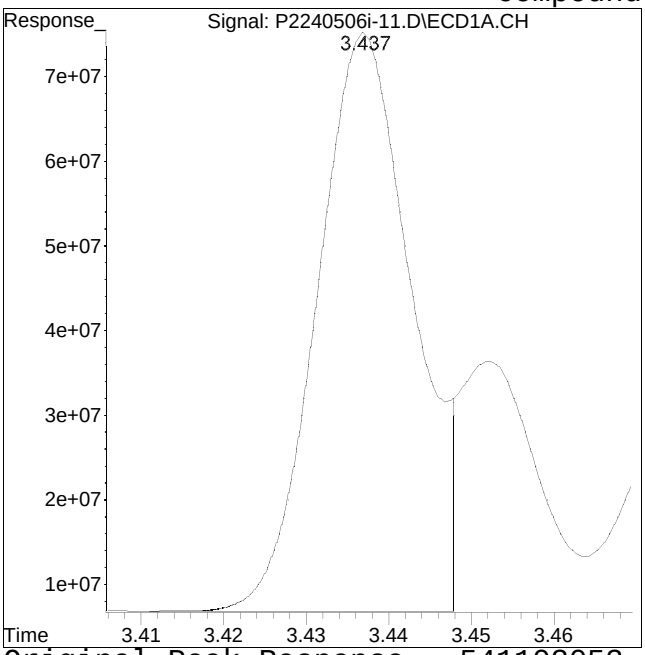


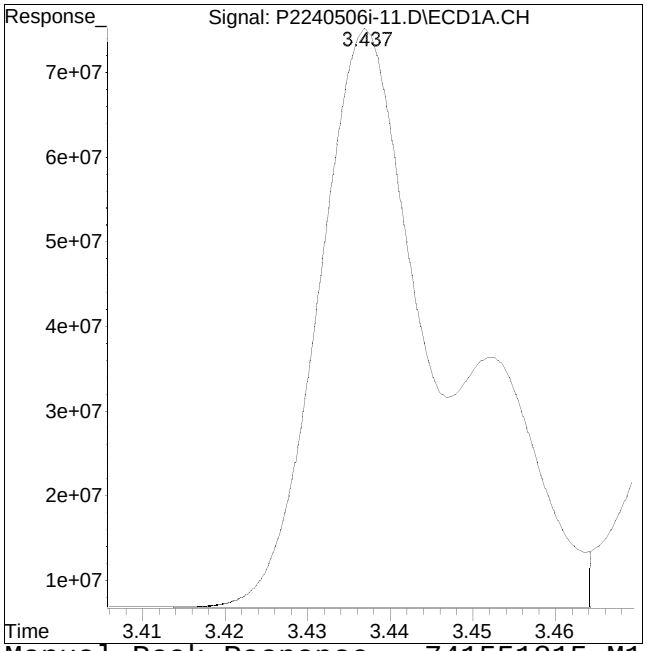
Original Peak Response = 212149220 Manual Peak Response = 201942343 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-11.D Operator : pest2:rmp
Date Inj'd : 5/6/2024 10:04 pm Instrument : Pest 2
Sample : il51660,42e,,pp 11447 Quant Date : 5/7/2024 3:13 pm

Compound #13: 1260-5





Original Peak Response = 541103053 Manual Peak Response = 741551815 M1
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240506I\
Data File : P2240506i-12.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 06 May 2024 10:14 pm
Operator : pest2:rmp
Sample : il61660,42e,,pp 11447
Misc : WG1918477,,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 12 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 07 15:13:38 2024
Quant Method : I:\PCB\Pest2\2024\240506I\P2_pcb_05_06_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Tue May 07 15:13:36 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1660_1br2nb	1.161	1.230	401.7E6	305.6E6	25.000	25.000
14) i	2154_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
23) i	4268_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
34) i	1248_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
40) i	3262_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	1.447	1.605	1463.5E6	957.9E6	70.673M3	62.850
	Spiked Amount	20.000	Range 30 - 150		Recovery =	353.37%#	314.25%#
3) s	Decachlorobi	4.023	4.535	1761.5E6	817.7E6	42.812	111.103M4
	Spiked Amount	20.000	Range 30 - 150		Recovery =	214.06%#	555.51%#
	Target Compounds						
4) l1	1016-1	1.586	1.807	342.3E6	232.3E6	900.980M3	871.969
5) l1	1016-2	1.728	1.978	765.1E6	503.6E6	976.532M1	855.096
6) l1	1016-3	1.917	2.180	1690.8E6	1044.7E6	1038.946M3	900.390
7) l1	1016-4	1.972	2.239	662.4E6	383.2E6	991.931M3	836.439M3
8) l1	1016-5	2.143	2.451	720.0E6	317.8E6	978.184	797.334
Sum	1016-1			4180.7E6	2481.6E6	4886.574	4261.228
Average	1016-1					977.315	852.246
9) l2	1260-1	2.688	3.061	1033.5E6	527.7E6	939.787	721.882
10) l2	1260-2	2.817	3.162	1568.2E6	627.9E6	54.345M3	720.794M4
11) l2	1260-3	3.134	3.555	996.8E6	522.5E6	959.541	744.967M4

Data Path : I:\PCB\Pest2\2024\240506I\
Data File : P2240506i-12.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 06 May 2024 10:14 pm
Operator : pest2:rmp
Sample : il61660,42e,,pp 11447
Misc : WG1918477,,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 12 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 07 15:13:38 2024
Quant Method : I:\PCB\Pest2\2024\240506I\P2_pcb_05_06_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Tue May 07 15:13:36 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
12) l2	1260-4	3.290	3.685	2155.4E6	1058.3E6	141.797M3	867.797M4
13) l2	1260-5	3.438	3.887	1531.1E6	741.7E6	212.374	868.512M4
Sum	1260-1			7285.0E6	3478.2E6	N.D.	N.D. D
Average	1260-1					461.569	784.790 D
15) l3	1221-2	0.000	0.000	0	0	N.D. d	N.D. d
16) l3	1221-3	0.000	0.000	0	0	N.D. d	N.D. d
17) l3	1221-4	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1221-2			0	0	N.D.	N.D.
Average	1221-2					0.000	0.000
18) l4	1254-1	0.000	0.000	0	0	N.D. d	N.D. d
19) l4	1254-2	0.000	0.000	0	0	N.D. d	N.D. d
20) l4	1254-3	0.000	0.000	0	0	N.D. d	N.D. d
21) l4	1254-4	0.000	0.000	0	0	N.D. d	N.D. d
22) l4	1254-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1254-1			0	0	N.D.	N.D.
Average	1254-1					0.000	0.000
24) l6	1242-1	0.000	0.000	0	0	N.D. d	N.D. d
25) l6	1242-2	0.000	0.000	0	0	N.D. d	N.D. d
26) l6	1242-3	0.000	0.000	0	0	N.D. d	N.D. d
27) l6	1242-4	0.000	0.000	0	0	N.D. d	N.D. d
28) l6	1242-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1242-1			0	0	N.D.	N.D.
Average	1242-1					0.000	0.000
29) l9	1268-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l9	1268-2	0.000	0.000	0	0	N.D. d	N.D. d
31) l9	1268-3	0.000	0.000	0	0	N.D. d	N.D. d
32) l9	1268-4	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\PCB\Pest2\2024\240506I\
Data File : P2240506i-12.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 06 May 2024 10:14 pm
Operator : pest2:rmp
Sample : il61660,42e,,pp 11447
Misc : WG1918477,,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 12 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 07 15:13:38 2024
Quant Method : I:\PCB\Pest2\2024\240506I\P2_pcb_05_06_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Tue May 07 15:13:36 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
33)	l9 1268-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1268-1			0	0	N.D.	N.D.
Average	1268-1					0.000	0.000
35)	l7 1248-1	0.000	0.000	0	0	N.D. d	N.D. d
36)	l7 1248-2	0.000	0.000	0	0	N.D. d	N.D. d
37)	l7 1248-3	0.000	0.000	0	0	N.D. d	N.D. d
38)	l7 1248-4	0.000	0.000	0	0	N.D. d	N.D. d
39)	l7 1248-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1248-1			0	0	N.D.	N.D.
Average	1248-1					0.000	0.000
41)	l5 1232-1	0.000	0.000	0	0	N.D. d	N.D. d
42)	l5 1232-2	0.000	0.000	0	0	N.D. d	N.D. d
43)	l5 1232-3	0.000	0.000	0	0	N.D. d	N.D. d
44)	l5 1232-4	0.000	0.000	0	0	N.D. d	N.D. d
45)	l5 1232-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1232-1			0	0	N.D.	N.D.
Average	1232-1					0.000	0.000
46)	l8 1262-1	0.000	0.000	0	0	N.D. d	N.D. d
47)	l8 1262-2	0.000	0.000	0	0	N.D. d	N.D. d
48)	l8 1262-3	0.000	0.000	0	0	N.D. d	N.D. d
49)	l8 1262-4	0.000	0.000	0	0	N.D. d	N.D. d
50)	l8 1262-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1262-1			0	0	N.D.	N.D.
Average	1262-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	1262-1			0	0	N.D.	N.D.
Average	1262-1					0.000	0.000

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240506I\
Data File : P2240506i-12.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 06 May 2024 10:14 pm
Operator : pest2:rmp
Sample : il61660,42e,,pp 11447
Misc : WG1918477,,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 12 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 07 15:13:38 2024
Quant Method : I:\PCB\Pest2\2024\240506I\P2_pcb_05_06_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Tue May 07 15:13:36 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l

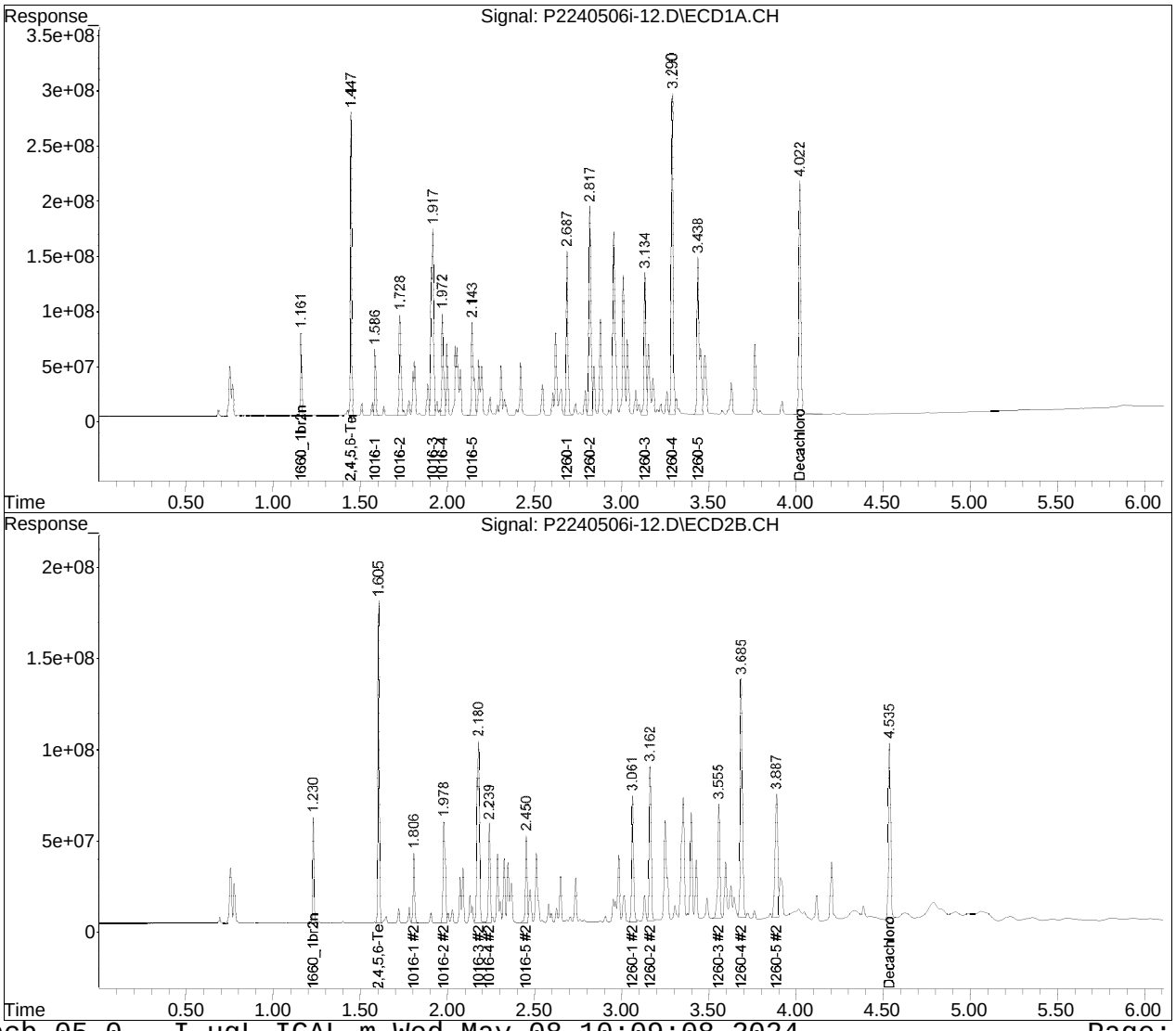
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PCB\Pest2\2024\240506I\
Data File : P2240506i-12.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 06 May 2024 10:14 pm
Operator : pest2:rmp
Sample : il61660,42e,,pp 11447
Misc : WG1918477,,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 12 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 07 15:13:38 2024
Quant Method : I:\PCB\Pest2\2024\240506I\P2_pcb_05_06_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Tue May 07 15:13:36 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

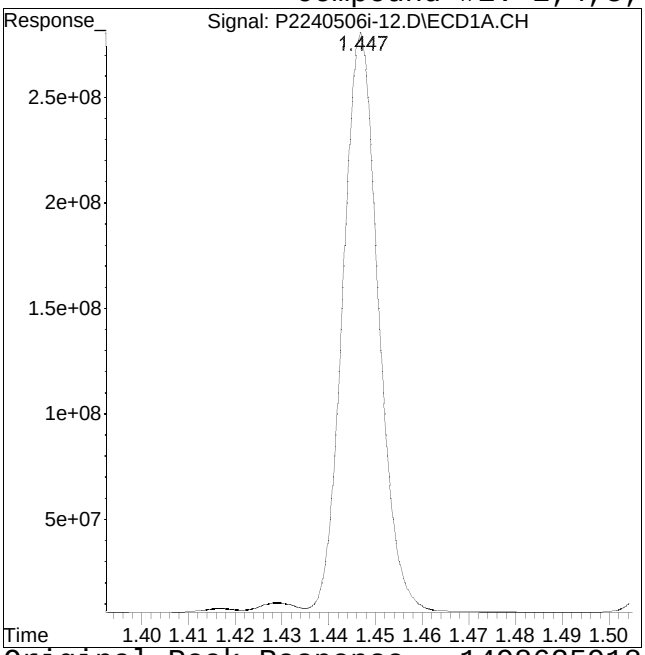
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

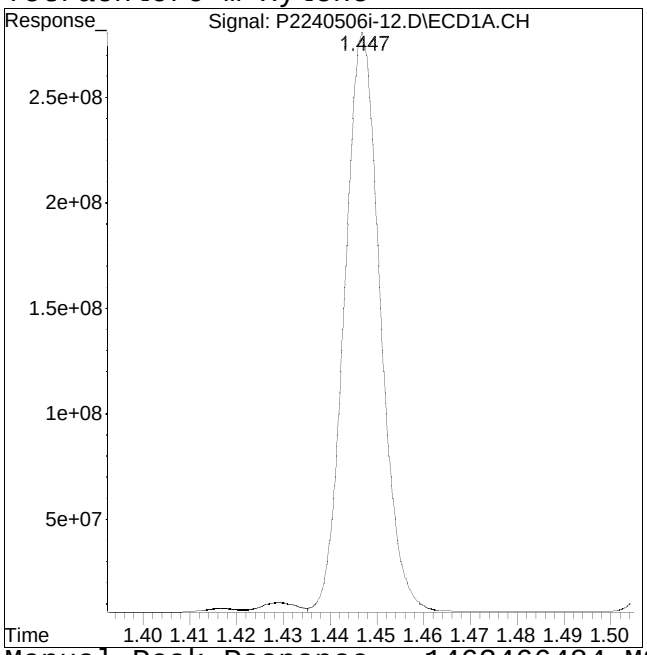


Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-12.D Operator : pest2:rmp
Date Inj'd : 5/6/2024 10:14 pm Instrument : Pest 2
Sample : il61660,42e,,pp 11447 Quant Date : 5/7/2024 3:13 pm

Compound #2: 2,4,5,6-Tetrachloro-m-xylene



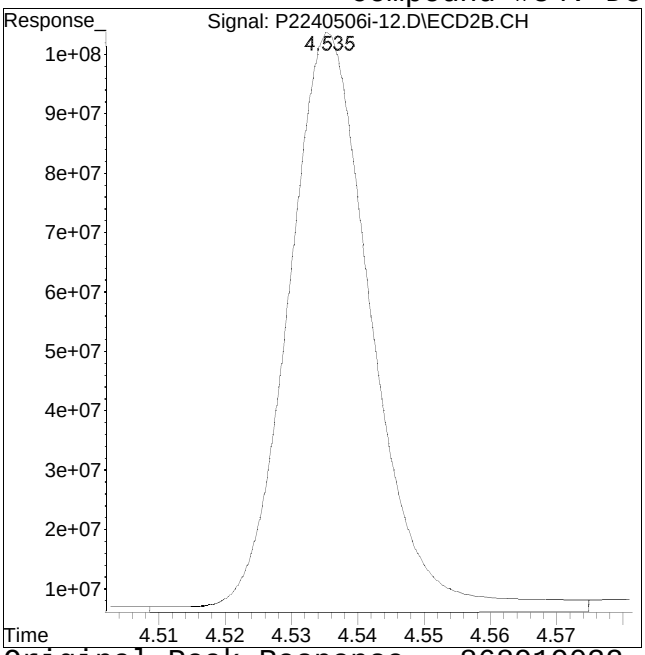


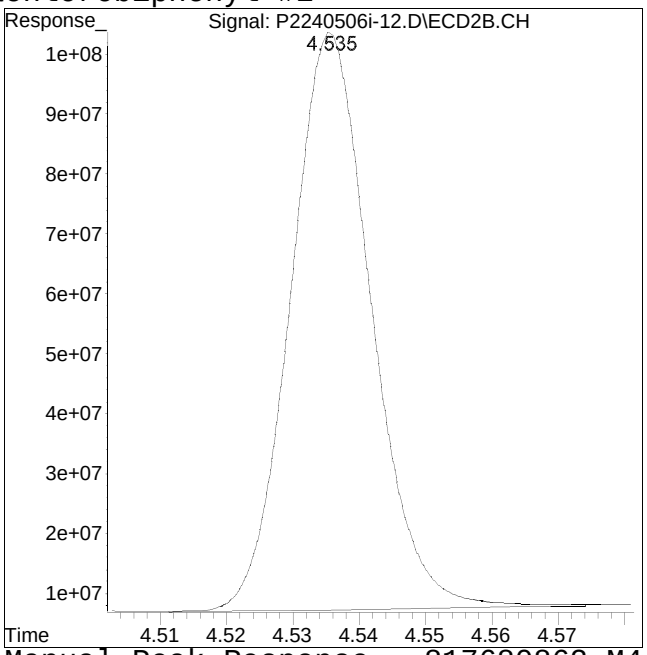
Original Peak Response = 1498625918 Manual Peak Response = 1463466484 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-12.D Operator : pest2:rmp
Date Inj'd : 5/6/2024 10:14 pm Instrument : Pest 2
Sample : il61660,42e,,pp 11447 Quant Date : 5/7/2024 3:13 pm

Compound #54: Decachlorobiphenyl #2



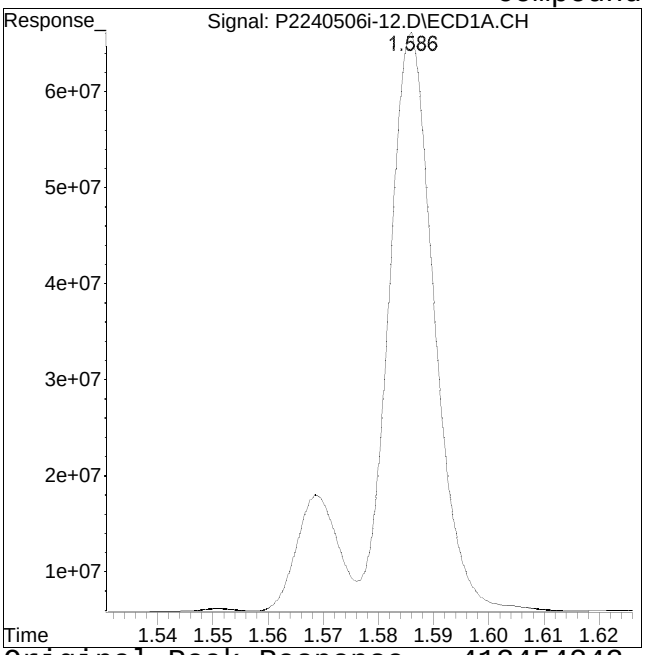


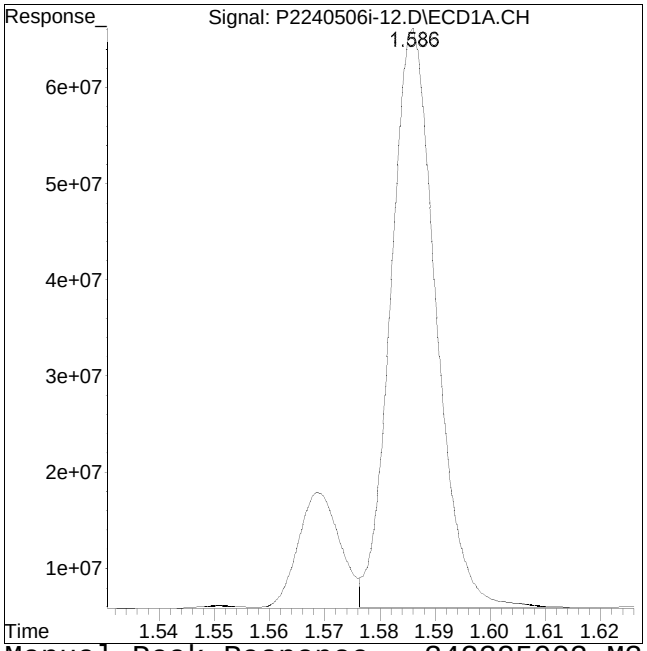
Original Peak Response = 868919032 Manual Peak Response = 817680862 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-12.D Operator : pest2:rmp
Date Inj'd : 5/6/2024 10:14 pm Instrument : Pest 2
Sample : il61660,42e,,pp 11447 Quant Date : 5/7/2024 3:13 pm

Compound #4: 1016-1



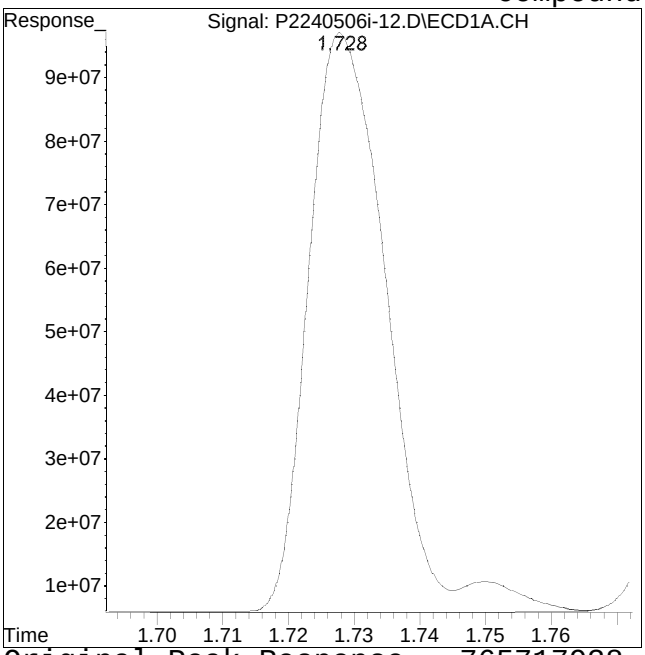


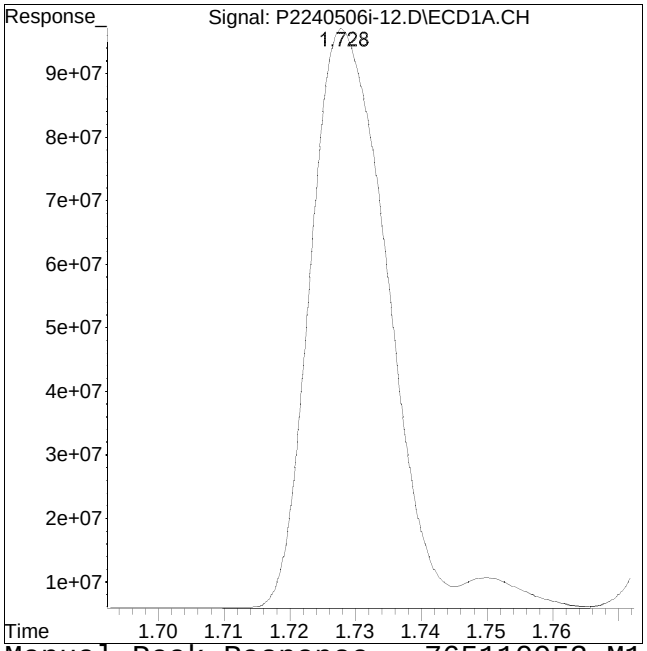
Original Peak Response = 412454242 Manual Peak Response = 342325003 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-12.D Operator : pest2:rmp
Date Inj'd : 5/6/2024 10:14 pm Instrument : Pest 2
Sample : il61660,42e,,pp 11447 Quant Date : 5/7/2024 3:13 pm

Compound #5: 1016-2



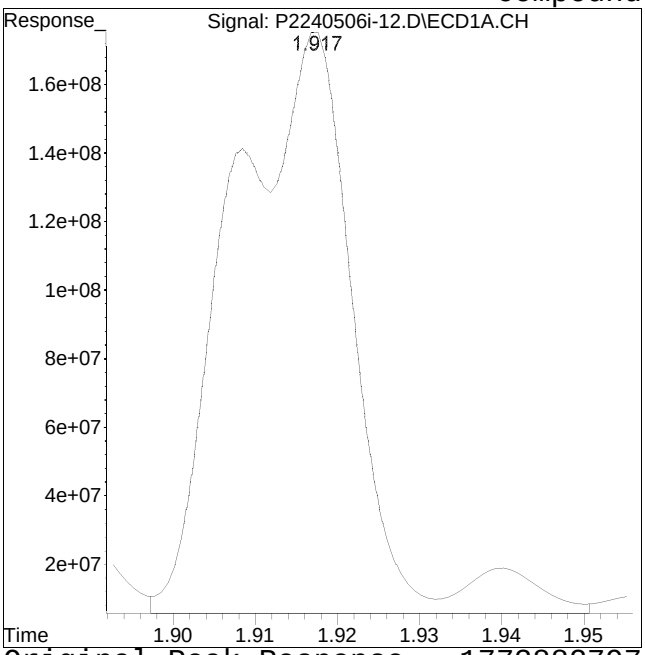


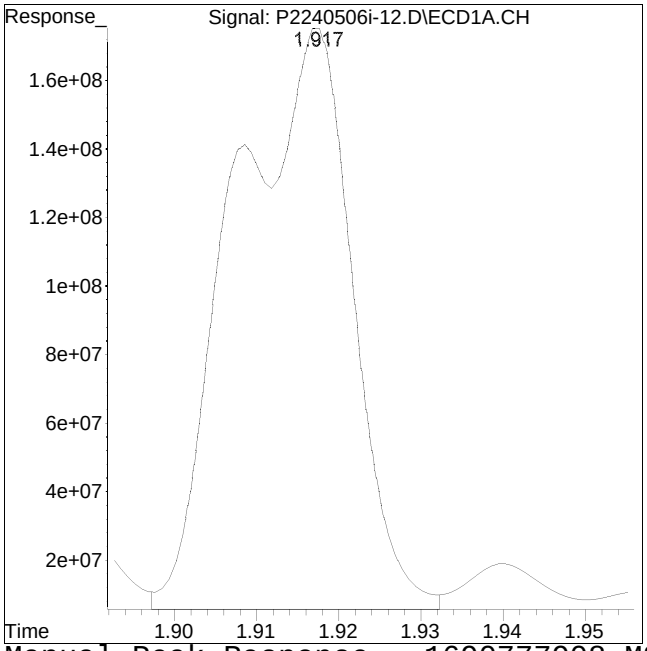
Original Peak Response = 765717938 Manual Peak Response = 765110953 M1
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-12.D Operator : pest2:rmp
Date Inj'd : 5/6/2024 10:14 pm Instrument : Pest 2
Sample : il61660,42e,,pp 11447 Quant Date : 5/7/2024 3:13 pm

Compound #6: 1016-3



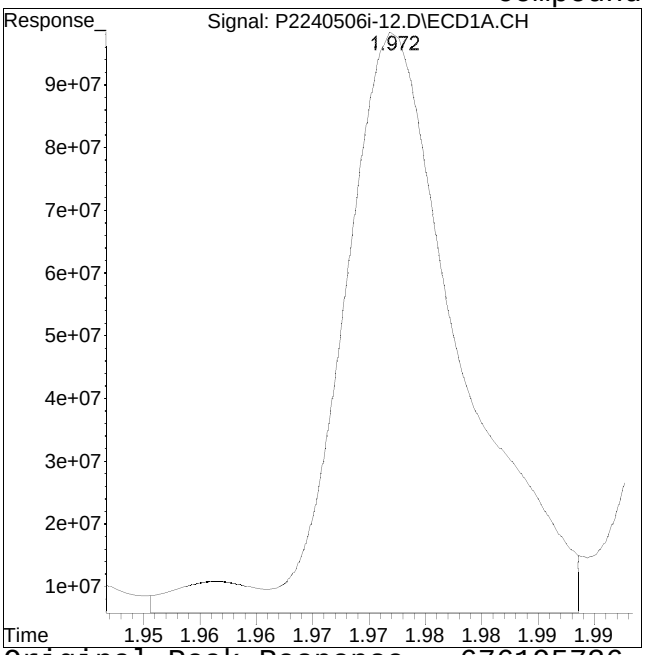


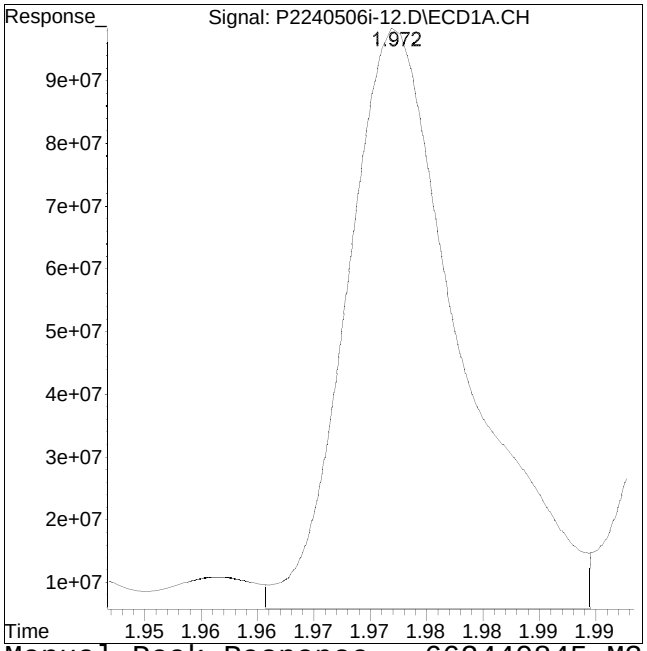
Original Peak Response = 1773882797 Manual Peak Response = 1690777908 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-12.D Operator : pest2:rmp
Date Inj'd : 5/6/2024 10:14 pm Instrument : Pest 2
Sample : il61660,42e,,pp 11447 Quant Date : 5/7/2024 3:13 pm

Compound #7: 1016-4



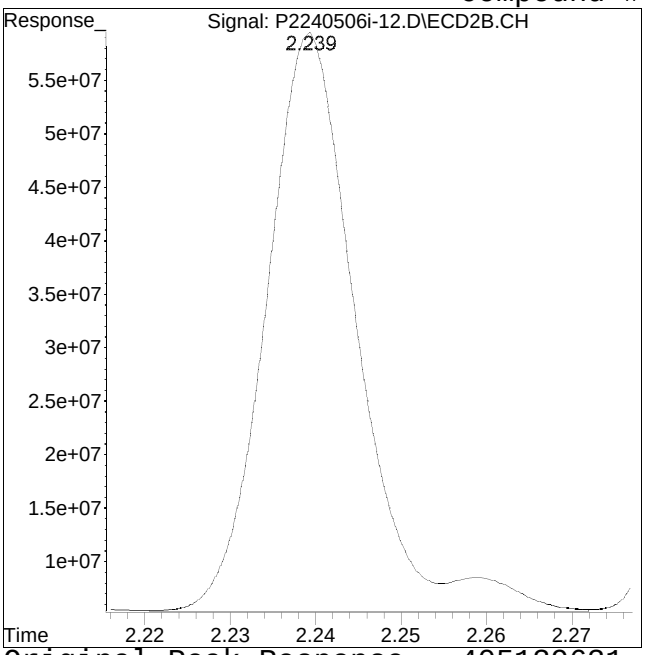


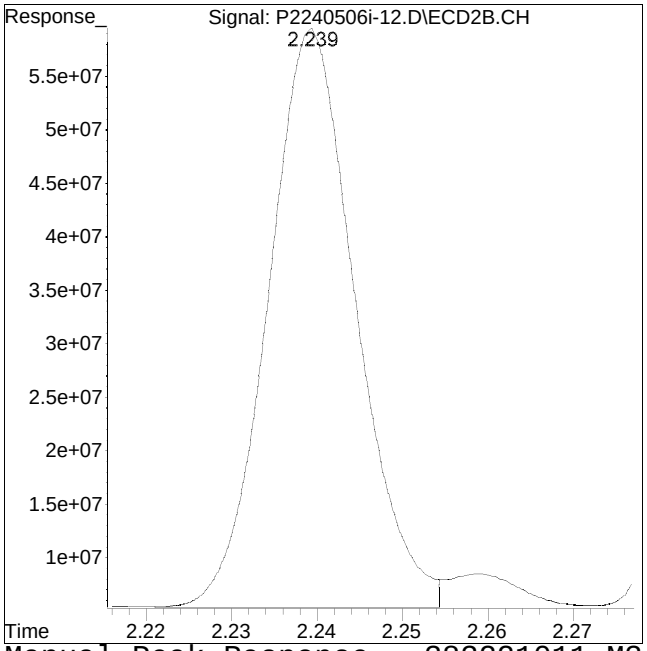
Original Peak Response = 676195736 Manual Peak Response = 662440845 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-12.D Operator : pest2:rmp
Date Inj'd : 5/6/2024 10:14 pm Instrument : Pest 2
Sample : il61660,42e,,pp 11447 Quant Date : 5/7/2024 3:13 pm

Compound #58: 1016-4 #2



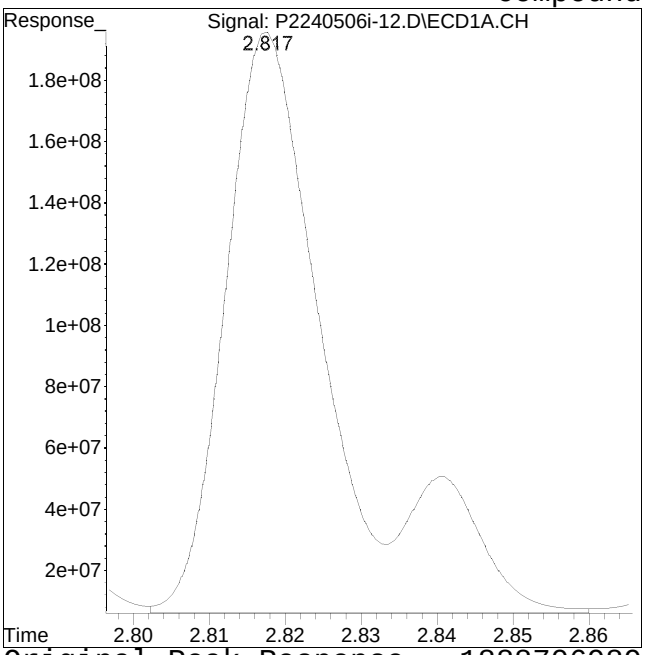


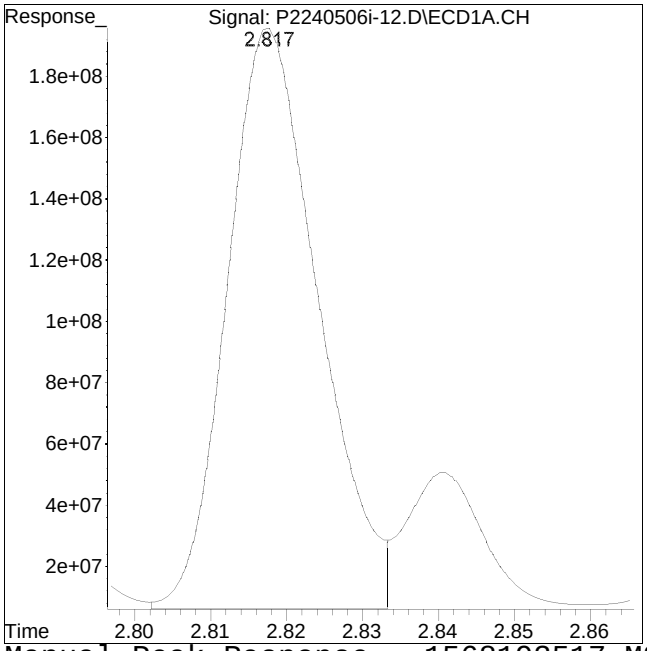
Original Peak Response = 405139631 Manual Peak Response = 383221011 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-12.D Operator : pest2:rmp
Date Inj'd : 5/6/2024 10:14 pm Instrument : Pest 2
Sample : il61660,42e,,pp 11447 Quant Date : 5/7/2024 3:13 pm

Compound #10: 1260-2



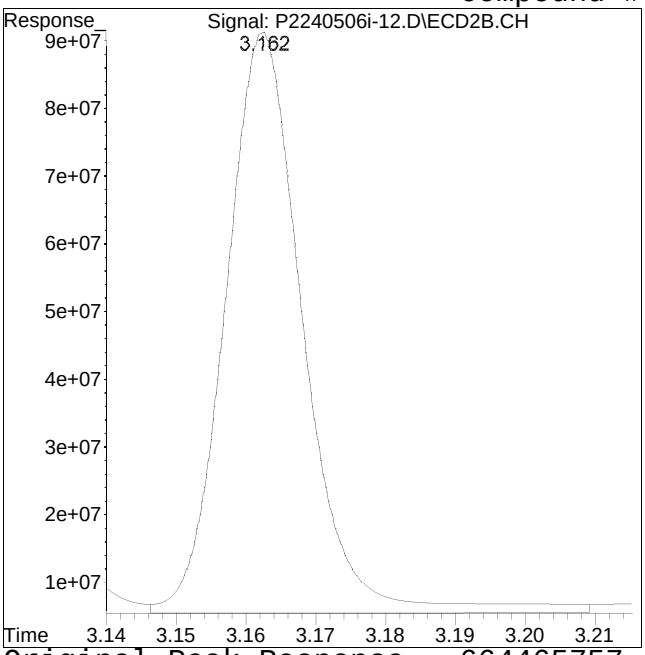


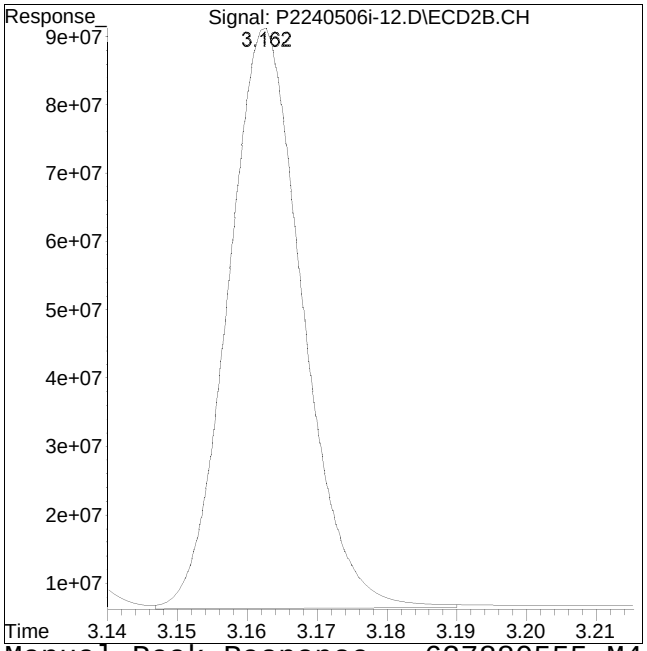
Original Peak Response = 1888706989 Manual Peak Response = 1568193517 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-12.D Operator : pest2:rmp
Date Inj'd : 5/6/2024 10:14 pm Instrument : Pest 2
Sample : il61660,42e,,pp 11447 Quant Date : 5/7/2024 3:13 pm

Compound #61: 1260-2 #2



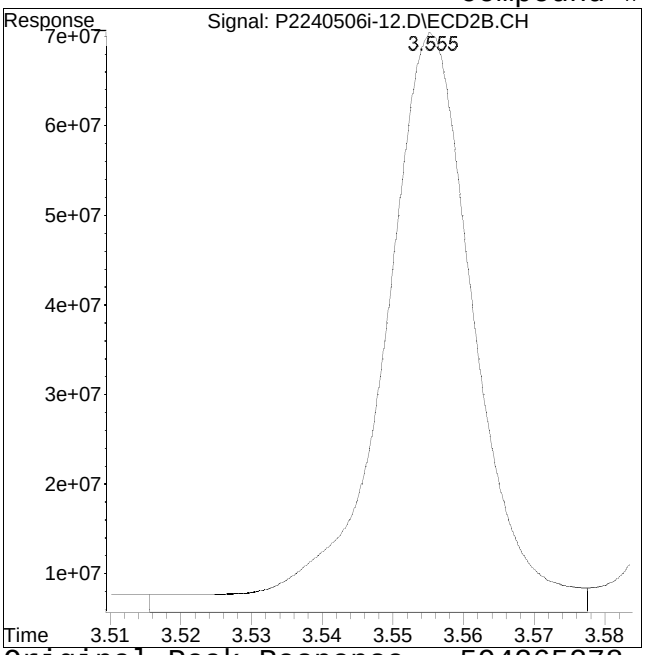


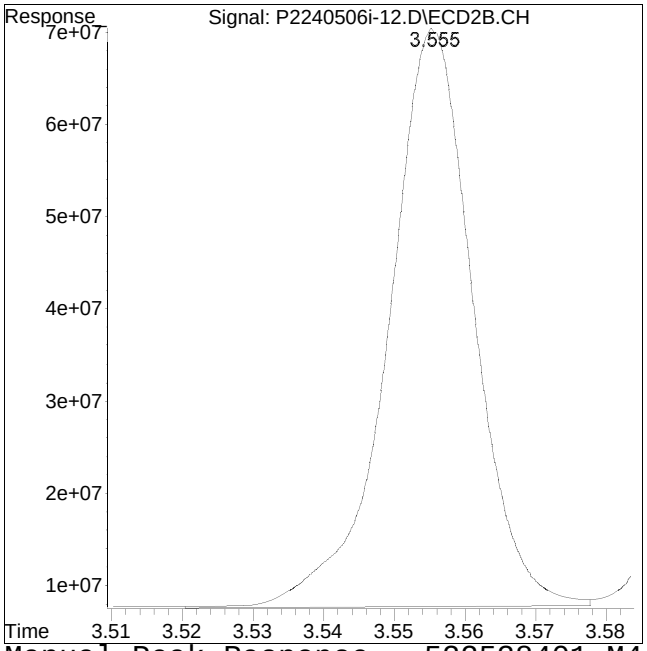
Original Peak Response = 664465757 Manual Peak Response = 627880555 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-12.D Operator : pest2:rmp
Date Inj'd : 5/6/2024 10:14 pm Instrument : Pest 2
Sample : il61660,42e,,pp 11447 Quant Date : 5/7/2024 3:13 pm

Compound #62: 1260-3 #2



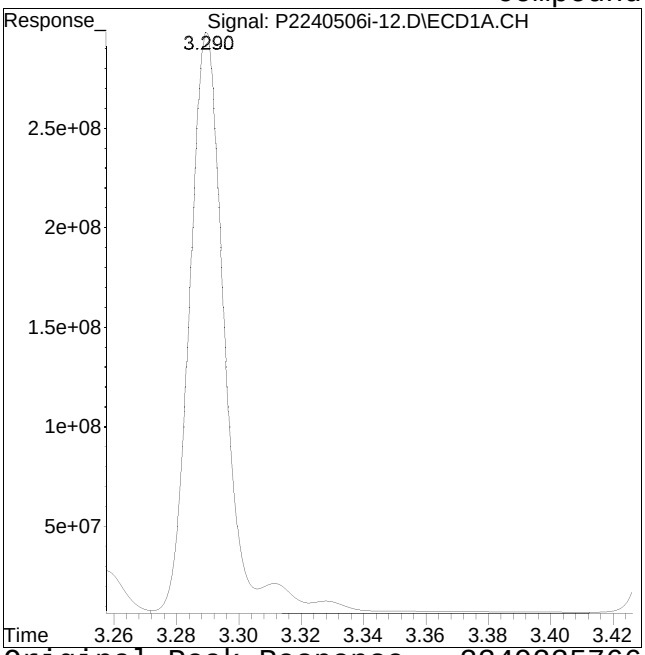


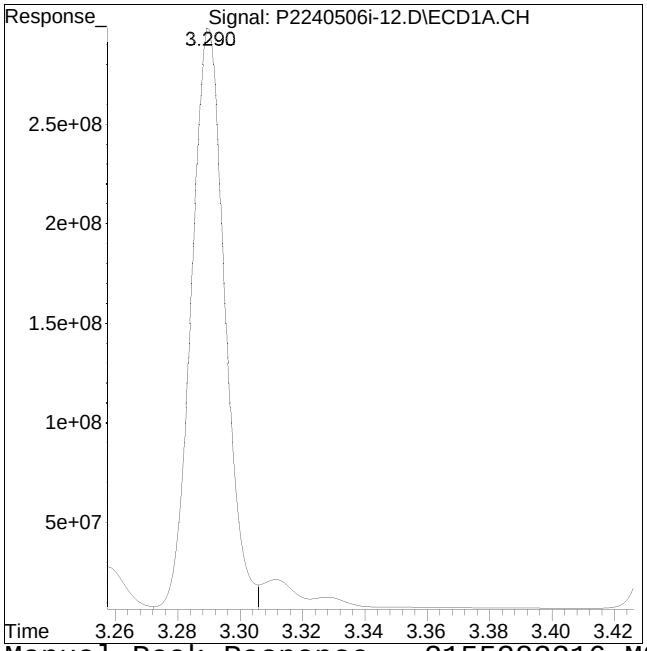
Original Peak Response = 594265278 Manual Peak Response = 522538401 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-12.D Operator : pest2:rmp
Date Inj'd : 5/6/2024 10:14 pm Instrument : Pest 2
Sample : il61660,42e,,pp 11447 Quant Date : 5/7/2024 3:13 pm

Compound #12: 1260-4



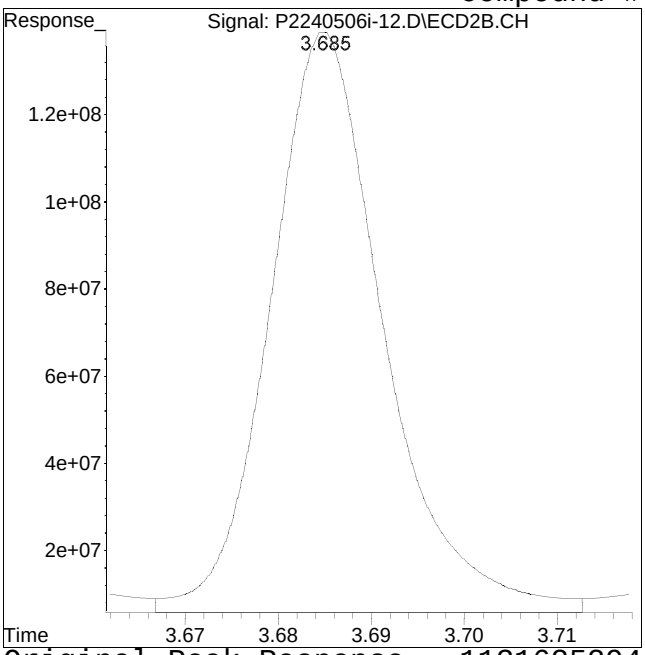


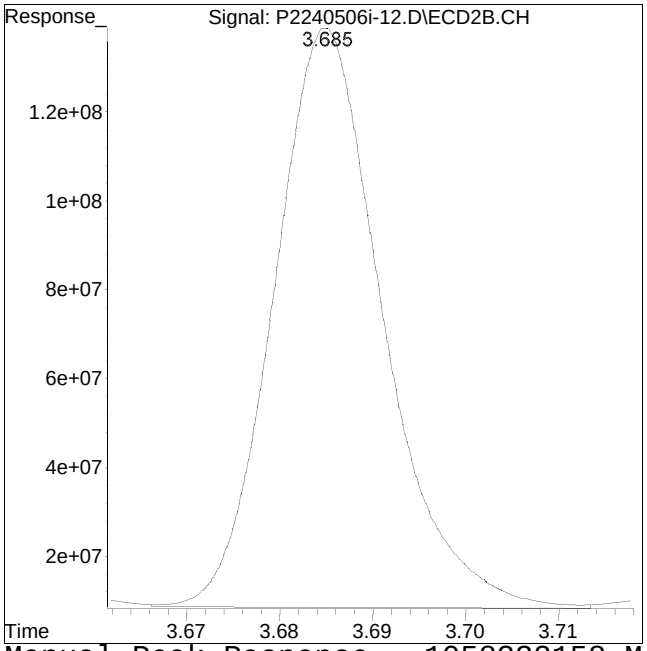
Original Peak Response = 2349235766 Manual Peak Response = 2155382316 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-12.D Operator : pest2:rmp
Date Inj'd : 5/6/2024 10:14 pm Instrument : Pest 2
Sample : il61660,42e,,pp 11447 Quant Date : 5/7/2024 3:13 pm

Compound #63: 1260-4 #2



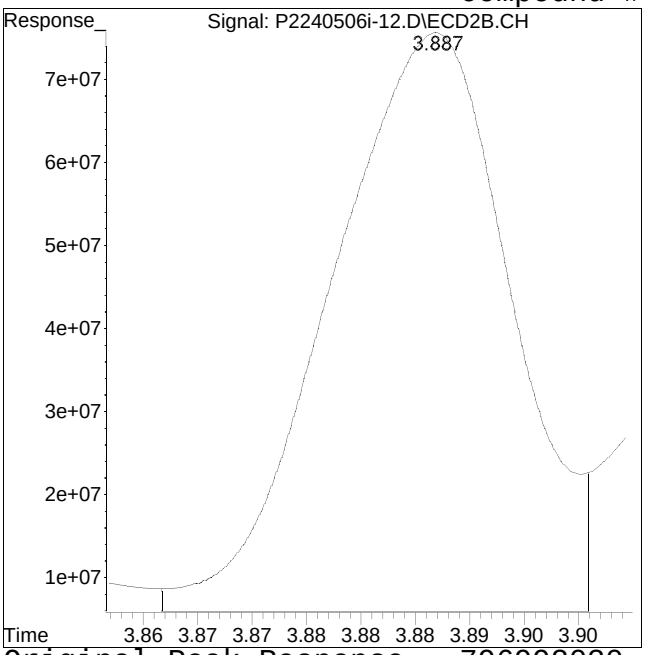


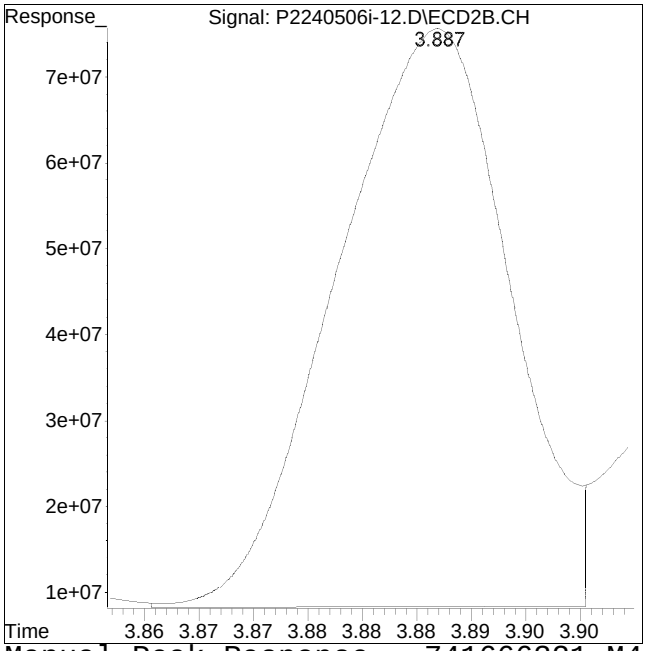
Original Peak Response = 1131625294 Manual Peak Response = 1058332158 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-12.D Operator : pest2:rmp
Date Inj'd : 5/6/2024 10:14 pm Instrument : Pest 2
Sample : il61660,42e,,pp 11447 Quant Date : 5/7/2024 3:13 pm

Compound #64: 1260-5 #2





Original Peak Response = 796992030 Manual Peak Response = 741666321 M4
M4 = Poor automated baseline construction.

Evaluate Continuing Calibration Report

Data Path : I:\PCB\Pest2\2024\240506I\
Data File : P2240506i-13.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 06 May 2024 10:23 pm
Operator : pest2:rmp
Sample   : cicv4268,42,,pp 11468
Misc   : WG1918477,,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 13 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 07 16:51:11 2024
Quant Method : I:\PCB\Pest2\2024\240506I\P2_pcb_05_06_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Tue May 07 16:37:24 2024
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
1	i	1660_1br2nb	^	1.000	1.000	0.0	90	0.00
2	s	2,4,5,6-Tetrachloro-m-xylen		1.311	1.427	-8.8	78	0.00
3	s	Decachlorobiphenyl		0.847	1.620	-91.3#	142	0.00
14	i	2154_1br2nb	^	1.000	1.000	0.0	99	0.00
23	i	4268_1br2nb	^	1.000	1.000	0.0	100	0.00
24	l6	1242-1		0.019	0.020	-5.3	108	0.00
25	l6	1242-2		0.040	0.044	-10.0	109	0.00
26	l6	1242-3		0.087	0.093	-6.9	108	0.00
27	l6	1242-4		0.035	0.037	-5.7	108	0.00
28	l6	1242-5		0.027	0.030	-11.1	113	0.00
29	l9	1268-1		0.181	0.210	-16.0	117	0.00
30	l9	1268-2		0.167	0.189	-13.2	114	0.00
31	l9	1268-3		0.133	0.140	-5.3	106	0.00
32	l9	1268-4		0.058	0.060	-3.4	103	0.00
33	l9	1268-5		0.392	0.394	-0.5	101	0.00
34	i	1248_1br2nb	^	1.000	1.000	0.0	95	0.00
40	i	3262_1br2nb	^	1.000	1.000	0.0	100	0.00

Signal #2

1	i	1660_1br2nb	^	1.000	1.000	0.0	93	0.00
2	s	2,4,5,6-Tetrachloro-m-xyl		1.232	1.312	-6.5	79	0.00
3	s	Decachlorobiphenyl		0.580	1.038	-79.0#	141	0.00
14	i	2154_1br2nb	^	1.000	1.000	0.0	105	0.00

Evaluate Continuing Calibration Report

Data Path : I:\PCB\Pest2\2024\240506I\
Data File : P2240506i-13.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 06 May 2024 10:23 pm
Operator : pest2:rmp
Sample   : cicv4268,42,,pp 11468
Misc   : WG1918477,,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 13 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 07 16:51:11 2024
Quant Method : I:\PCB\Pest2\2024\240506I\P2_pcb_05_06_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Tue May 07 16:37:24 2024
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
23	i	4268_1br2nb	^	1.000	1.000	0.0	104	0.00
24	l6	1242-1		0.017	0.018	-5.9	110	0.00
25	l6	1242-2		0.038	0.042	-10.5	114	0.00
26	l6	1242-3		0.073	0.081	-11.0	116	0.00
27	l6	1242-4		0.029	0.033	-13.8	116	0.00
28	l6	1242-5		0.022	0.024	-9.1	114	0.00
29	l9	1268-1		0.119	0.148	-24.4#	130	0.00
30	l9	1268-2		0.110	0.132	-20.0#	124	0.00
31	l9	1268-3		0.090	0.100	-11.1	115	0.00
32	l9	1268-4		0.039	0.044	-12.8	117	0.00
33	l9	1268-5		0.245	0.259	-5.7	110	0.00
34	i	1248_1br2nb	^	1.000	1.000	0.0	99	0.00
40	i	3262_1br2nb	^	1.000	1.000	0.0	106	0.00

Evaluate Continuing Calibration Report - Not Founds

4	l1	1016-1		0.022	0.000	100.0#	0#	-1.59#
5	l1	1016-2		0.049	0.000	100.0#	0#	-1.73#
6	l1	1016-3		0.101	0.000	100.0#	0#	-1.92#
7	l1	1016-4		0.040	0.000	100.0#	0#	-1.97#
8	l1	1016-5		0.045	0.000	100.0#	0#	-2.14#
9	l2	1260-1		0.065	0.000	100.0#	0#	-2.69#
10	l2	1260-2		0.097	0.000	100.0#	0#	-2.82#
11	l2	1260-3		0.060	0.000	100.0#	0#	-3.13#
12	l2	1260-4		0.130	0.000	100.0#	0#	-3.29#
13	l2	1260-5		0.091	0.000	100.0#	0#	-3.44#
15	l3	1221-2		0.015	0.000	100.0#	0#	-1.51#
16	l3	1221-3		0.00895	0.00000	100.0#	0#	-1.57#
17	l3	1221-4		0.035	0.000	100.0#	0#	-1.58#

Evaluate Continuing Calibration Report

Data Path : I:\PCB\Pest2\2024\240506I\
Data File : P2240506i-13.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 06 May 2024 10:23 pm
Operator : pest2:rmp
Sample   : cicv4268,42,,pp 11468
Misc   : WG1918477,,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 13 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 07 16:51:11 2024
Quant Method : I:\PCB\Pest2\2024\240506I\P2_pcb_05_06_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Tue May 07 16:37:24 2024
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(Min)
18	l4	1254-1	0.050	0.000	100.0#	0#	-2.31#
19	l4	1254-2	0.090	0.000	100.0#	0#	-2.42#
20	l4	1254-3	0.095	0.000	100.0#	0#	-2.60#
21	l4	1254-4	0.067	0.000	100.0#	0#	-2.73#
22	l4	1254-5	0.091	0.000	100.0#	0#	-2.95#
35	l7	1248-1	0.057	0.000	100.0#	0#	-1.91#
36	l7	1248-2	0.074	0.000	100.0#	0#	-2.04#
37	l7	1248-3	0.065	0.000	100.0#	0#	-2.14#
38	l7	1248-4	0.058	0.000	100.0#	0#	-2.32#
39	l7	1248-5	0.050	0.000	100.0#	0#	-2.34#
41	l5	1232-1	0.026	0.000	100.0#	0#	-1.58#
42	l5	1232-2	0.024	0.000	100.0#	0#	-1.73#
43	l5	1232-3	0.050	0.000	100.0#	0#	-1.92#
44	l5	1232-4	0.020	0.000	100.0#	0#	-1.97#
45	l5	1232-5	0.015	0.000	100.0#	0#	-2.32#
46	l8	1262-1	0.070	0.000	100.0#	0#	-2.82#
47	l8	1262-2	0.091	0.000	100.0#	0#	-3.01#
48	l8	1262-3	0.079	0.000	100.0#	0#	-3.13#
49	l8	1262-4	0.160	0.000	100.0#	0#	-3.29#
50	l8	1262-5	0.050	0.000	100.0#	0#	-3.76#

Signal #2

4	l1	1016-1	0.021	0.000	100.0#	0#	-1.81#
5	l1	1016-2	0.046	0.000	100.0#	0#	-1.98#
6	l1	1016-3	0.092	0.000	100.0#	0#	-2.18#
7	l1	1016-4	0.034	0.000	100.0#	0#	-2.24#
8	l1	1016-5	0.029	0.000	100.0#	0#	-2.45#
9	l2	1260-1	0.054	0.000	100.0#	0#	-3.06#
10	l2	1260-2	0.062	0.000	100.0#	0#	-3.16#
11	l2	1260-3	0.048	0.000	100.0#	0#	-3.56#

Evaluate Continuing Calibration Report

Data Path : I:\PCB\Pest2\2024\240506I\
Data File : P2240506i-13.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 06 May 2024 10:23 pm
Operator : pest2:rmp
Sample   : cicv4268,42,,pp 11468
Misc   : WG1918477,,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 13 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 07 16:51:11 2024
Quant Method : I:\PCB\Pest2\2024\240506I\P2_pcb_05_06_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Tue May 07 16:37:24 2024
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(Min)
12 l2	1260-4	0.096	0.000	100.0#	0#	-3.68#
13 l2	1260-5	0.066	0.000	100.0#	0#	-3.89#
15 l3	1221-2	0.015	0.000	100.0#	0#	-1.72#
16 l3	1221-3	0.00933	0.00000	100.0#	0#	-1.78#
17 l3	1221-4	0.034	0.000	100.0#	0#	-1.81#
18 l4	1254-1	0.046	0.000	100.0#	0#	-2.65#
19 l4	1254-2	0.052	0.000	100.0#	0#	-2.73#
20 l4	1254-3	0.078	0.000	100.0#	0#	-2.96#
21 l4	1254-4	0.048	0.000	100.0#	0#	-3.07#
22 l4	1254-5	0.071	0.000	100.0#	0#	-3.35#
35 l7	1248-1	0.052	0.000	100.0#	0#	-2.17#
36 l7	1248-2	0.034	0.000	100.0#	0#	-2.32#
37 l7	1248-3	0.043	0.000	100.0#	0#	-2.45#
38 l7	1248-4	0.048	0.000	100.0#	0#	-2.62#
39 l7	1248-5	0.054	0.000	100.0#	0#	-2.65#
41 l5	1232-1	0.025	0.000	100.0#	0#	-1.80#
42 l5	1232-2	0.025	0.000	100.0#	0#	-1.98#
43 l5	1232-3	0.045	0.000	100.0#	0#	-2.18#
44 l5	1232-4	0.018	0.000	100.0#	0#	-2.24#
45 l5	1232-5	0.013	0.000	100.0#	0#	-2.62#
46 l8	1262-1	0.049	0.000	100.0#	0#	-3.16#
47 l8	1262-2	0.065	0.000	100.0#	0#	-3.39#
48 l8	1262-3	0.059	0.000	100.0#	0#	-3.55#
49 l8	1262-4	0.110	0.000	100.0#	0#	-3.68#
50 l8	1262-5	0.039	0.000	100.0#	0#	-4.20#

* Evaluation of CC level amount vs concentration.
(#) = Out of Range SPCC's out = 0 CCC's out = 0
(^) = ISTD area calculated using ICAL average

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240506I\
Data File : P2240506i-13.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 06 May 2024 10:23 pm
Operator : pest2:rmp
Sample : cicv4268,42,,pp 11468
Misc : WG1918477,,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 13 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 07 16:51:11 2024
Quant Method : I:\PCB\Pest2\2024\240506I\P2_pcb_05_06_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Tue May 07 16:37:24 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1660_1br2nb	1.160	1.230	377.6E6	287.7E6	25.000M4	25.000
14) i	2154_1br2nb	1.160	1.230	377.6E6	287.7E6	25.000M4	25.000
23) i	4268_1br2nb	1.160	1.230	377.6E6	287.7E6	25.000M4	25.000
34) i	1248_1br2nb	1.160	1.230	377.6E6	287.7E6	25.000M4	25.000
40) i	3262_1br2nb	1.160	1.230	377.6E6	287.7E6	25.000M4	25.000
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	1.446	1.605	344.8E6	241.7E6	17.413M3	17.048
	Spiked Amount	20.000	Range 30 - 150		Recovery =	87.06%	85.24%
3) s	Decachlorobi	4.022	4.535	783.1E6	382.4E6	61.211	57.275
	Spiked Amount	20.000	Range 30 - 150		Recovery =	306.06%#	286.38%#
	Target Compounds						
4) l1	1016-1	0.000	0.000	0	0	N.D. d	N.D. d
5) l1	1016-2	0.000	0.000	0	0	N.D. d	N.D. d
6) l1	1016-3	0.000	0.000	0	0	N.D. d	N.D. d
7) l1	1016-4	0.000	0.000	0	0	N.D. d	N.D. d
8) l1	1016-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1016-1			0	0	N.D.	N.D.
	Average 1016-1					0.000	0.000
9) l2	1260-1	0.000	0.000	0	0	N.D. d	N.D. d
10) l2	1260-2	0.000	0.000	0	0	N.D. d	N.D. d
11) l2	1260-3	0.000	0.000	0	0	N.D. d	N.D. d
12) l2	1260-4	0.000	0.000	0	0	N.D. d	N.D. d
13) l2	1260-5	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240506I\
Data File : P2240506i-13.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 06 May 2024 10:23 pm
Operator : pest2:rmp
Sample : cicv4268,42,,pp 11468
Misc : WG1918477,,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 13 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 07 16:51:11 2024
Quant Method : I:\PCB\Pest2\2024\240506I\P2_pcb_05_06_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Tue May 07 16:37:24 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Sum	1260-1			0	0	N.D.	N.D.
Average	1260-1					0.000	0.000
15) l3	1221-2	0.000	0.000	0	0	N.D. d	N.D. d
16) l3	1221-3	0.000	0.000	0	0	N.D. d	N.D. d
17) l3	1221-4	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1221-2			0	0	N.D.	N.D.
Average	1221-2					0.000	0.000
18) l4	1254-1	0.000	0.000	0	0	N.D. d	N.D. d
19) l4	1254-2	0.000	0.000	0	0	N.D. d	N.D. d
20) l4	1254-3	0.000	0.000	0	0	N.D. d	N.D. d
21) l4	1254-4	0.000	0.000	0	0	N.D. d	N.D. d
22) l4	1254-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1254-1			0	0	N.D.	N.D.
Average	1254-1					0.000	0.000
24) l6	1242-1	1.586	1.807	75468361	53100596	267.907	264.555
25) l6	1242-2	1.728	1.978	164.8E6	119.6E6	271.401	273.942
26) l6	1242-3	1.917	2.179	351.7E6	233.7E6	268.799	279.373
27) l6	1242-4	1.972	2.239	140.3E6	93849056	267.894M3	278.888
28) l6	1242-5	2.325	2.626	114.8E6	68908851	281.749	274.508
Sum	1242-1			847.0E6	569.2E6	1357.749	1371.266
Average	1242-1					271.550	274.253
29) l9	1268-1	3.453	3.880	794.0E6	427.1E6	291.052	312.719M4
30) l9	1268-2	3.474	3.906	715.4E6	378.4E6	284.372	299.523M4
31) l9	1268-3	3.576	4.048	529.1E6	286.9E6	263.733	277.288M4
32) l9	1268-4	3.764	4.201	225.4E6	126.4E6	255.990	281.014M4

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240506I\
Data File : P2240506i-13.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 06 May 2024 10:23 pm
Operator : pest2:rmp
Sample : cicv4268,42,,pp 11468
Misc : WG1918477,,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 13 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 07 16:51:11 2024
Quant Method : I:\PCB\Pest2\2024\240506I\P2_pcb_05_06_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Tue May 07 16:37:24 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
33) l9	1268-5	3.918	4.386	1486.1E6	746.4E6	250.706	264.852M4
Sum	1268-1			3750.0E6	1965.2E6	1345.852	1435.397
Average	1268-1					269.170	287.079
35) l7	1248-1	0.000	0.000	0	0	N.D. d	N.D. d
36) l7	1248-2	0.000	0.000	0	0	N.D. d	N.D. d
37) l7	1248-3	0.000	0.000	0	0	N.D. d	N.D. d
38) l7	1248-4	0.000	0.000	0	0	N.D. d	N.D. d
39) l7	1248-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1248-1			0	0	N.D.	N.D.
Average	1248-1					0.000	0.000
41) l5	1232-1	0.000	0.000	0	0	N.D. d	N.D. d
42) l5	1232-2	0.000	0.000	0	0	N.D. d	N.D. d
43) l5	1232-3	0.000	0.000	0	0	N.D. d	N.D. d
44) l5	1232-4	0.000	0.000	0	0	N.D. d	N.D. d
45) l5	1232-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1232-1			0	0	N.D.	N.D.
Average	1232-1					0.000	0.000
46) l8	1262-1	0.000	0.000	0	0	N.D. d	N.D. d
47) l8	1262-2	0.000	0.000	0	0	N.D. d	N.D. d
48) l8	1262-3	0.000	0.000	0	0	N.D. d	N.D. d
49) l8	1262-4	0.000	0.000	0	0	N.D. d	N.D. d
50) l8	1262-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1262-1			0	0	N.D.	N.D.
Average	1262-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	1262-1			0	0	N.D.	N.D.

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240506I\
Data File : P2240506i-13.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 06 May 2024 10:23 pm
Operator : pest2:rmp
Sample : cicv4268,42,,pp 11468
Misc : WG1918477,,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 13 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 07 16:51:11 2024
Quant Method : I:\PCB\Pest2\2024\240506I\P2_pcb_05_06_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Tue May 07 16:37:24 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Average 1262-1					0.000	0.000

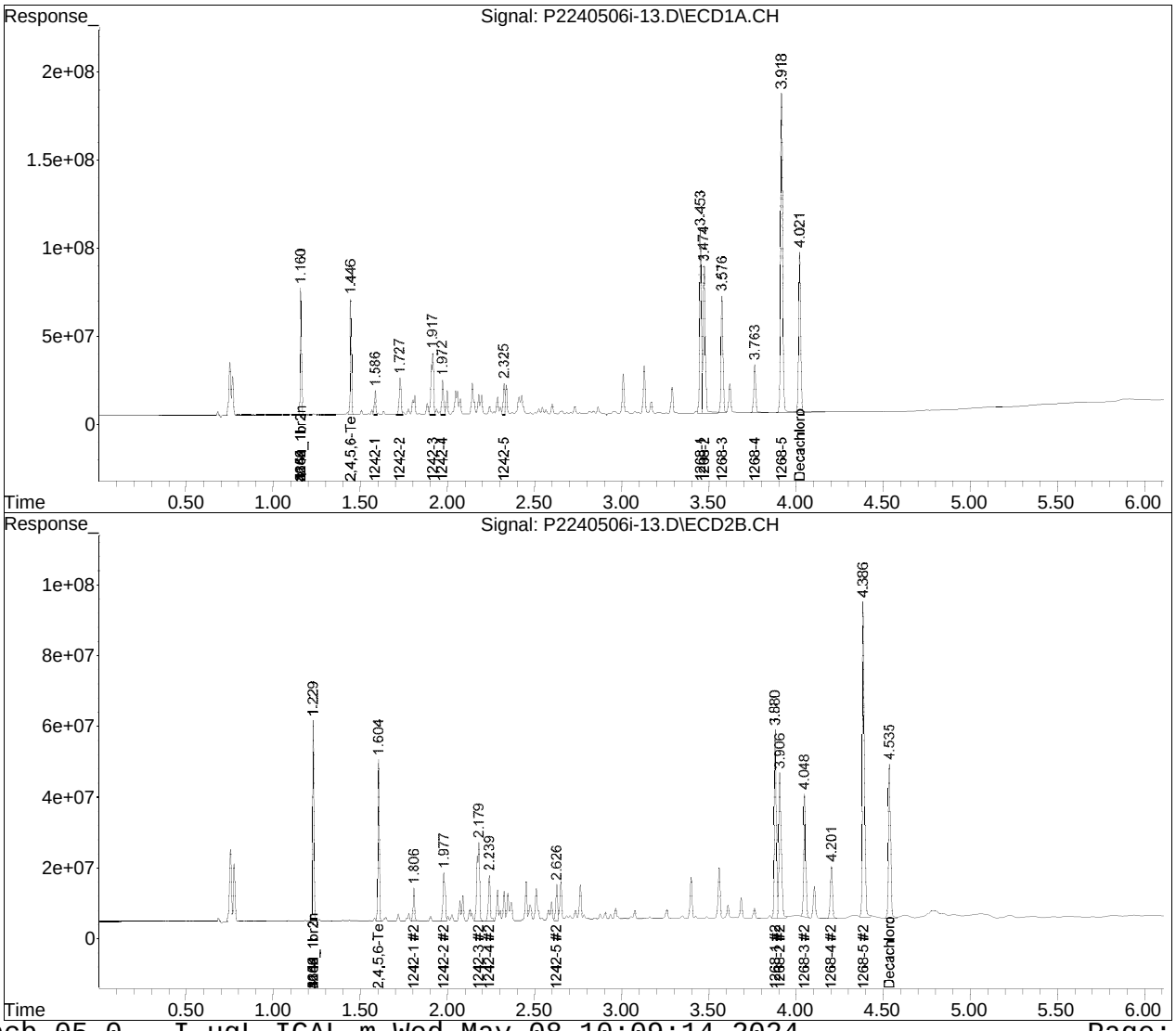
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PCB\Pest2\2024\240506I\
Data File : P2240506i-13.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 06 May 2024 10:23 pm
Operator : pest2:rmp
Sample : cicv4268,42,,pp 11468
Misc : WG1918477,,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 13 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 07 16:51:11 2024
Quant Method : I:\PCB\Pest2\2024\240506I\P2_pcb_05_06_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Tue May 07 16:37:24 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

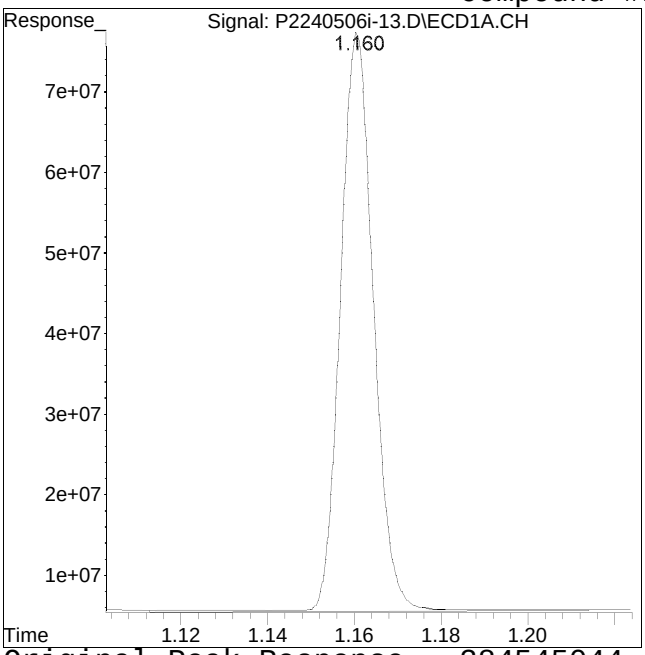
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

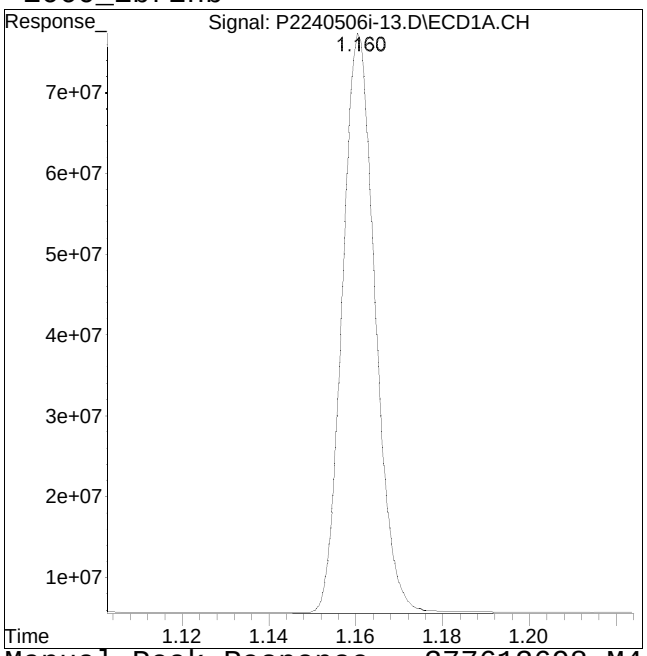


Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-13.D Operator : pest2:rmp
Date Inj'd : 5/6/2024 10:23 pm Instrument : Pest 2
Sample : cicv4268,42,,pp 11468 Quant Date : 5/7/2024 4:51 pm

Compound #1: 1660_1br2nb



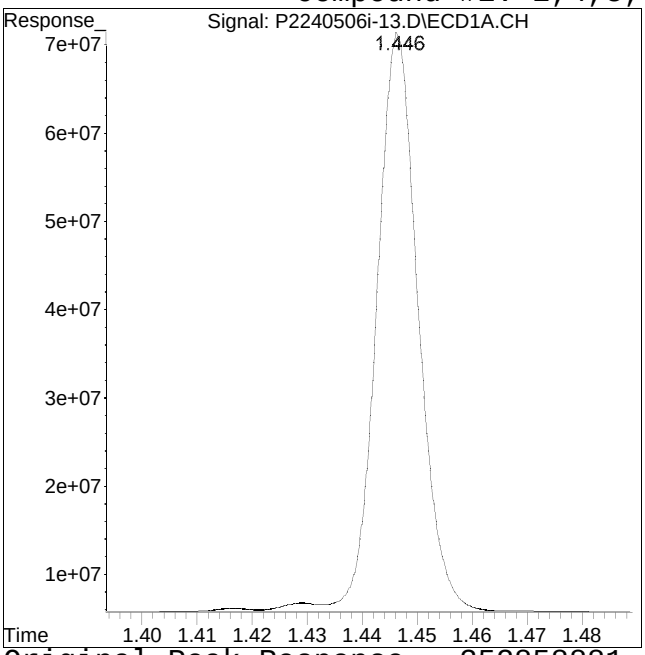


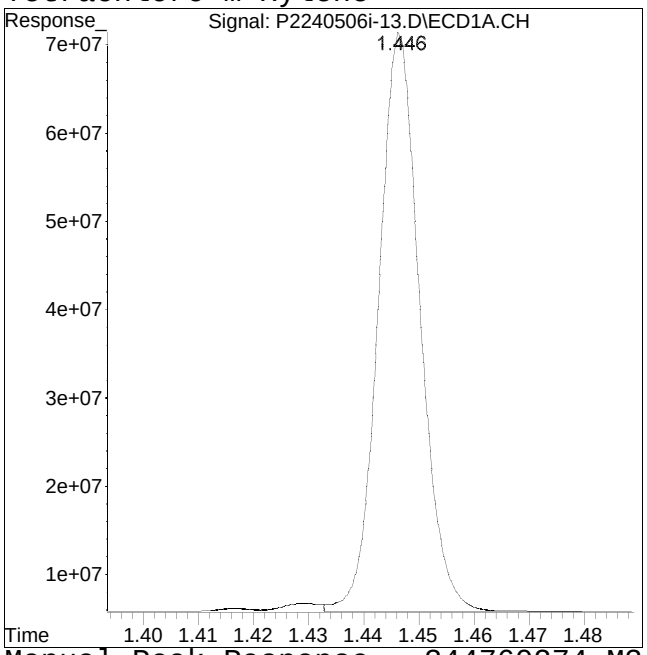
Original Peak Response = 384545044 Manual Peak Response = 377613698 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-13.D Operator : pest2:rmp
Date Inj'd : 5/6/2024 10:23 pm Instrument : Pest 2
Sample : cicv4268,42,,pp 11468 Quant Date : 5/7/2024 4:51 pm

Compound #2: 2,4,5,6-Tetrachloro-m-xylene



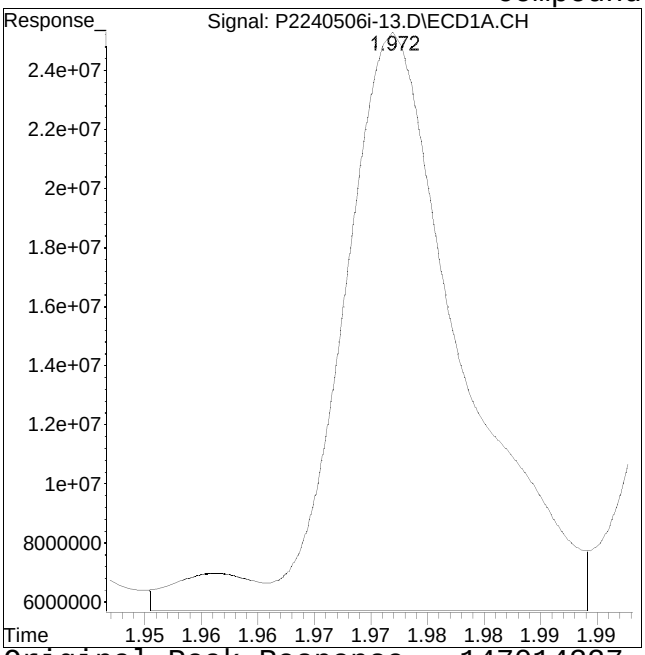


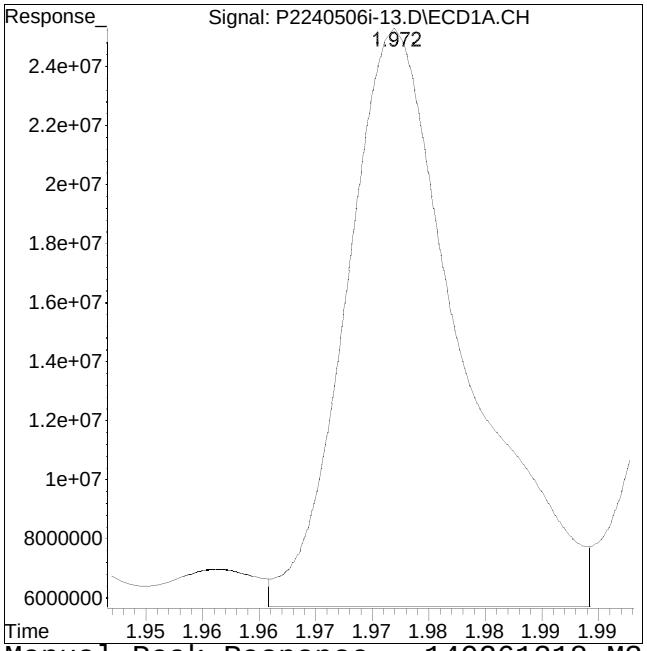
Original Peak Response = 352858881 Manual Peak Response = 344760274 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-13.D Operator : pest2:rmp
Date Inj'd : 5/6/2024 10:23 pm Instrument : Pest 2
Sample : cicv4268,42,,pp 11468 Quant Date : 5/7/2024 4:51 pm

Compound #27: 1242-4



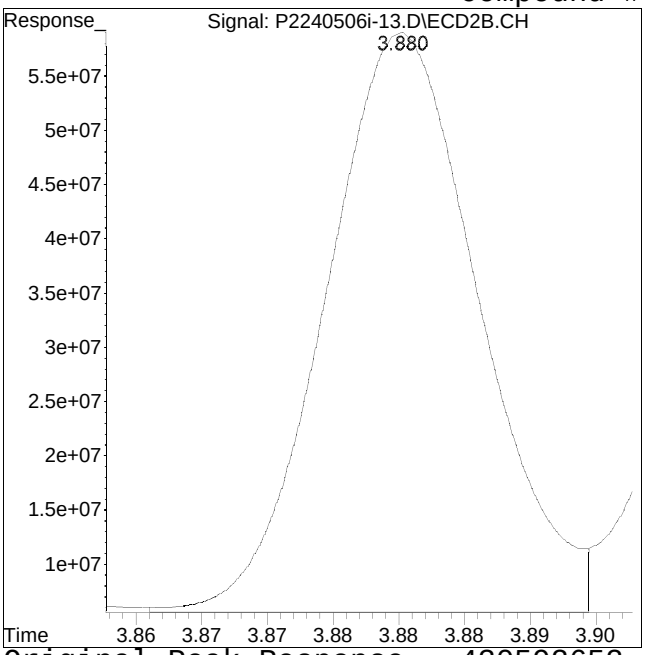


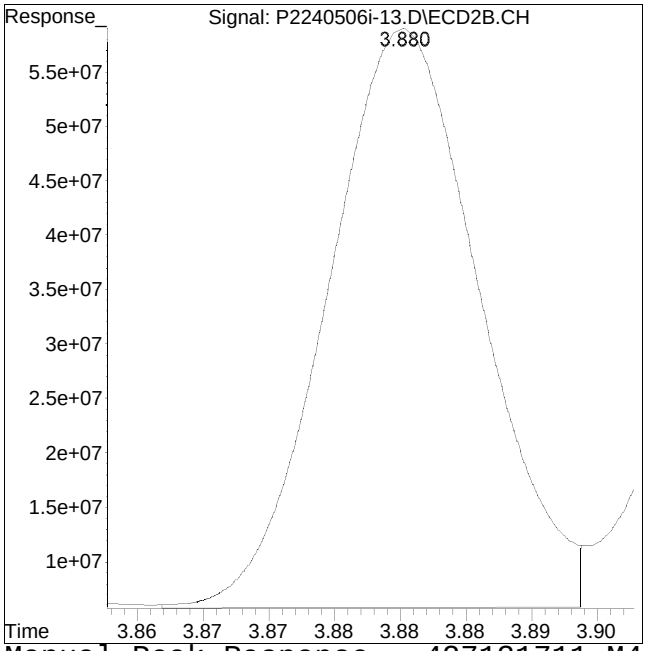
Original Peak Response = 147014327 Manual Peak Response = 140261218 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-13.D Operator : pest2:rmp
Date Inj'd : 5/6/2024 10:23 pm Instrument : Pest 2
Sample : cicv4268,42,,pp 11468 Quant Date : 5/7/2024 4:51 pm

Compound #80: 1268-1 #2



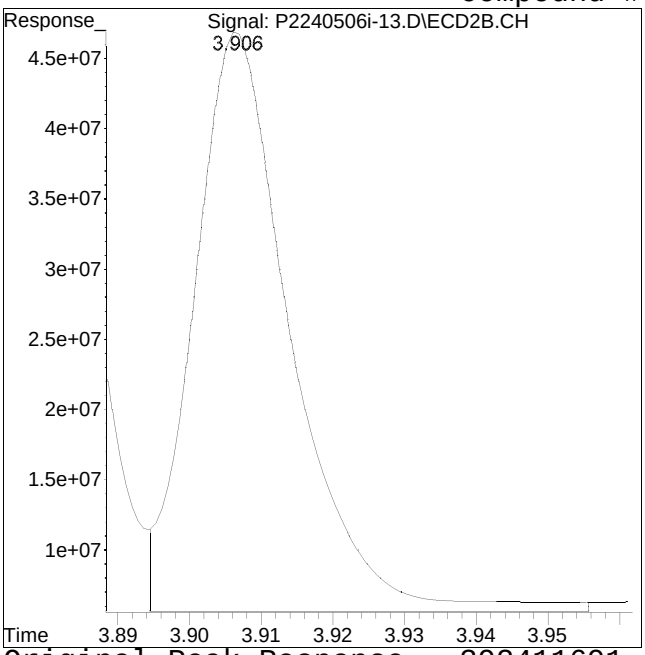


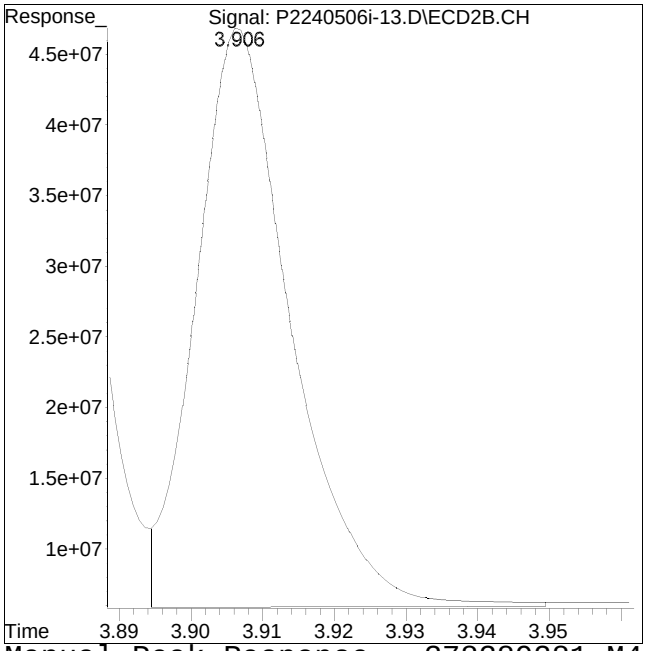
Original Peak Response = 430592652 Manual Peak Response = 427131711 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-13.D Operator : pest2:rmp
Date Inj'd : 5/6/2024 10:23 pm Instrument : Pest 2
Sample : cicv4268,42,,pp 11468 Quant Date : 5/7/2024 4:51 pm

Compound #81: 1268-2 #2



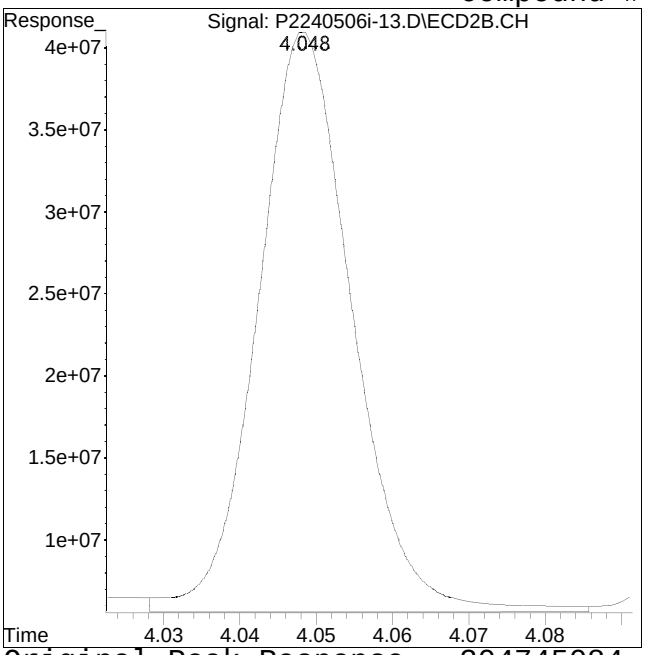


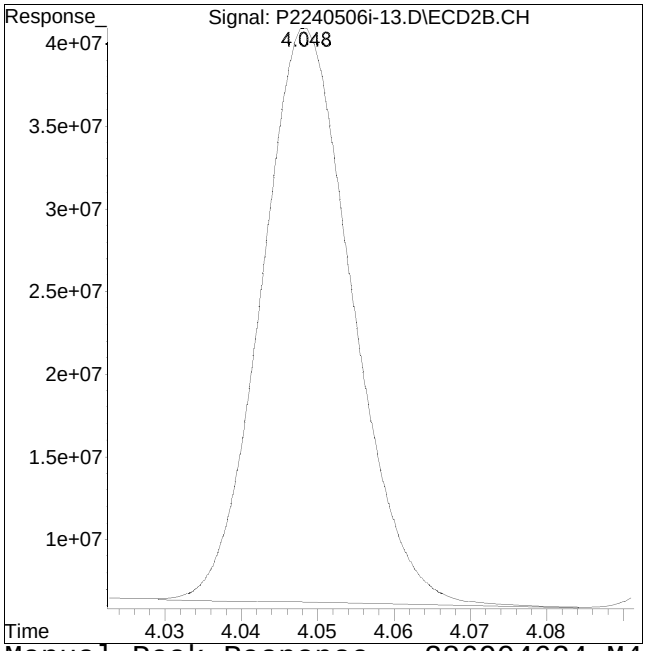
Original Peak Response = 392411691 Manual Peak Response = 378389281 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-13.D Operator : pest2:rmp
Date Inj'd : 5/6/2024 10:23 pm Instrument : Pest 2
Sample : cicv4268,42,,pp 11468 Quant Date : 5/7/2024 4:51 pm

Compound #82: 1268-3 #2



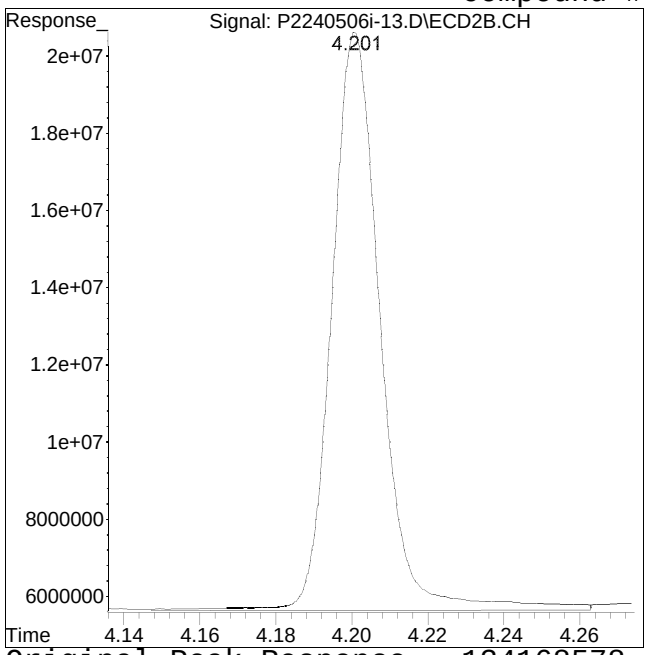


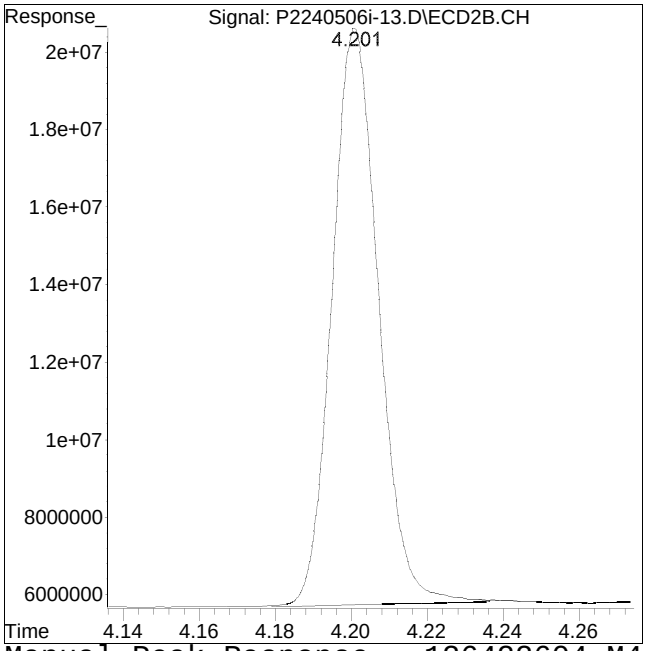
Original Peak Response = 304745084 Manual Peak Response = 286904624 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-13.D Operator : pest2:rmp
Date Inj'd : 5/6/2024 10:23 pm Instrument : Pest 2
Sample : cicv4268,42,,pp 11468 Quant Date : 5/7/2024 4:51 pm

Compound #83: 1268-4 #2



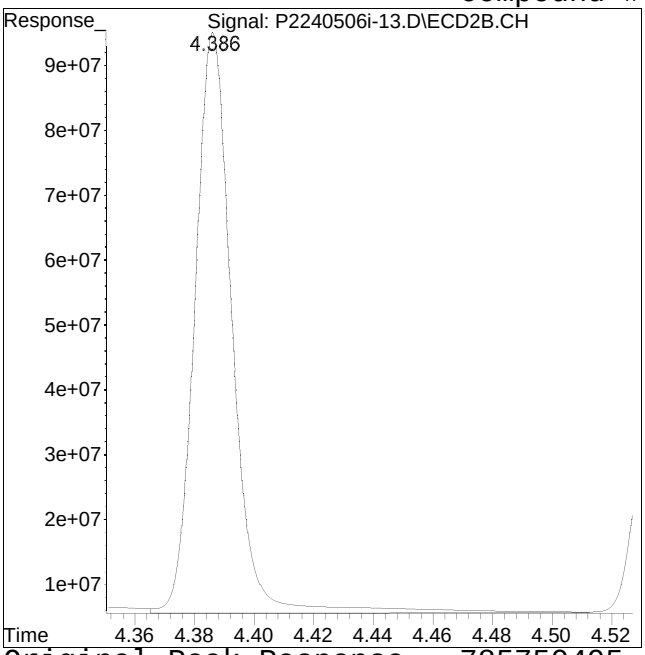


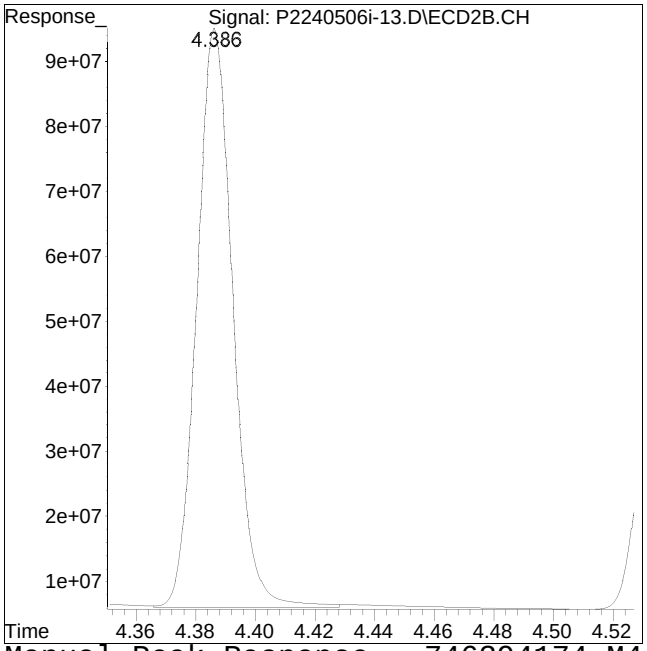
Original Peak Response = 134168578 Manual Peak Response = 126422604 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-13.D Operator : pest2:rmp
Date Inj'd : 5/6/2024 10:23 pm Instrument : Pest 2
Sample : cicv4268,42,,pp 11468 Quant Date : 5/7/2024 4:51 pm

Compound #84: 1268-5 #2





Original Peak Response = 785750495 Manual Peak Response = 746394174 M4
M4 = Poor automated baseline construction.

Evaluate Continuing Calibration Report

Data Path : I:\PCB\Pest2\2024\240506I\
Data File : P2240506i-14.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 06 May 2024 10:33 pm
Operator : pest2:rmp
Sample   : cicv3262,42,,pp 11467
Misc   : WG1918477,,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 14 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 07 16:45:36 2024
Quant Method : I:\PCB\Pest2\2024\240506I\P2_pcb_05_06_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Tue May 07 16:37:24 2024
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
1	i	1660_1br2nb	^	1.000	1.000	0.0	86	0.00
2	s	2,4,5,6-Tetrachloro-m-xylen		1.311	1.359	-3.7	71	0.00
3	s	Decachlorobiphenyl		0.847	0.985	-16.3	82	0.00
14	i	2154_1br2nb	^	1.000	1.000	0.0	95	0.00
23	i	4268_1br2nb	^	1.000	1.000	0.0	96	0.00
34	i	1248_1br2nb	^	1.000	1.000	0.0	91	0.00
40	i	3262_1br2nb	^	1.000	1.000	0.0	95	0.00
41	l5	1232-1		0.026	0.028	-7.7	101	0.00
42	l5	1232-2		0.024	0.023	4.2	91	0.00
43	l5	1232-3		0.050	0.048	4.0	91	0.00
44	l5	1232-4		0.020	0.020	0.0	93	0.00
45	l5	1232-5		0.015	0.014	6.7	92	0.00
46	l8	1262-1		0.070	0.072	-2.9	97	0.00
47	l8	1262-2		0.091	0.091	0.0	95	0.00
48	l8	1262-3		0.079	0.078	1.3	94	0.00
49	l8	1262-4		0.160	0.154	3.8	91	0.00
50	l8	1262-5		0.050	0.049	2.0	94	0.00

Signal #2

1	i	1660_1br2nb	^	1.000	1.000	0.0	91	0.00
2	s	2,4,5,6-Tetrachloro-m-xyl		1.232	1.231	0.1	73	0.00
3	s	Decachlorobiphenyl		0.580	0.649	-11.9	86	0.00
14	i	2154_1br2nb	^	1.000	1.000	0.0	103	0.00

Evaluate Continuing Calibration Report

Data Path : I:\PCB\Pest2\2024\240506I\
Data File : P2240506i-14.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 06 May 2024 10:33 pm
Operator : pest2:rmp
Sample   : cicv3262,42,,pp 11467
Misc   : WG1918477,,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 14 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 07 16:45:36 2024
Quant Method : I:\PCB\Pest2\2024\240506I\P2_pcb_05_06_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Tue May 07 16:37:24 2024
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
23	i	4268_1br2nb	^	1.000	1.000	0.0	101	0.00
34	i	1248_1br2nb	^	1.000	1.000	0.0	97	0.00
40	i	3262_1br2nb	^	1.000	1.000	0.0	104	0.00
41	l5	1232-1		0.025	0.026	-4.0	108	0.00
42	l5	1232-2		0.025	0.024	4.0	100	0.00
43	l5	1232-3		0.045	0.043	4.4	99	0.00
44	l5	1232-4		0.018	0.017	5.6	100	0.00
45	l5	1232-5		0.013	0.011	15.4	91	0.00
46	l8	1262-1		0.049	0.047	4.1	99	0.00
47	l8	1262-2		0.065	0.062	4.6	99	0.00
48	l8	1262-3		0.059	0.057	3.4	100	0.00
49	l8	1262-4		0.110	0.105	4.5	99	0.00
50	l8	1262-5		0.039	0.039	0.0	104	0.00

Evaluate Continuing Calibration Report - Not Founds

4	l1	1016-1		0.022	0.000	100.0#	0#	-1.59#
5	l1	1016-2		0.049	0.000	100.0#	0#	-1.73#
6	l1	1016-3		0.101	0.000	100.0#	0#	-1.92#
7	l1	1016-4		0.040	0.000	100.0#	0#	-1.97#
8	l1	1016-5		0.045	0.000	100.0#	0#	-2.14#
9	l2	1260-1		0.065	0.000	100.0#	0#	-2.69#
10	l2	1260-2		0.097	0.000	100.0#	0#	-2.82#
11	l2	1260-3		0.060	0.000	100.0#	0#	-3.13#
12	l2	1260-4		0.130	0.000	100.0#	0#	-3.29#
13	l2	1260-5		0.091	0.000	100.0#	0#	-3.44#
15	l3	1221-2		0.015	0.000	100.0#	0#	-1.51#
16	l3	1221-3		0.00895	0.00000	100.0#	0#	-1.57#
17	l3	1221-4		0.035	0.000	100.0#	0#	-1.58#

Evaluate Continuing Calibration Report

Data Path : I:\PCB\Pest2\2024\240506I\
Data File : P2240506i-14.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 06 May 2024 10:33 pm
Operator : pest2:rmp
Sample   : cicv3262,42,,pp 11467
Misc   : WG1918477,,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 14 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 07 16:45:36 2024
Quant Method : I:\PCB\Pest2\2024\240506I\P2_pcb_05_06_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Tue May 07 16:37:24 2024
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(Min)
18	l4	1254-1	0.050	0.000	100.0#	0#	-2.31#
19	l4	1254-2	0.090	0.000	100.0#	0#	-2.42#
20	l4	1254-3	0.095	0.000	100.0#	0#	-2.60#
21	l4	1254-4	0.067	0.000	100.0#	0#	-2.73#
22	l4	1254-5	0.091	0.000	100.0#	0#	-2.95#
24	l6	1242-1	0.019	0.000	100.0#	0#	-1.58#
25	l6	1242-2	0.040	0.000	100.0#	0#	-1.73#
26	l6	1242-3	0.087	0.000	100.0#	0#	-1.91#
27	l6	1242-4	0.035	0.000	100.0#	0#	-1.97#
28	l6	1242-5	0.027	0.000	100.0#	0#	-2.32#
29	l9	1268-1	0.181	0.000	100.0#	0#	-3.45#
30	l9	1268-2	0.167	0.000	100.0#	0#	-3.47#
31	l9	1268-3	0.133	0.000	100.0#	0#	-3.57#
32	l9	1268-4	0.058	0.000	100.0#	0#	-3.76#
33	l9	1268-5	0.392	0.000	100.0#	0#	-3.92#
35	l7	1248-1	0.057	0.000	100.0#	0#	-1.91#
36	l7	1248-2	0.074	0.000	100.0#	0#	-2.04#
37	l7	1248-3	0.065	0.000	100.0#	0#	-2.14#
38	l7	1248-4	0.058	0.000	100.0#	0#	-2.32#
39	l7	1248-5	0.050	0.000	100.0#	0#	-2.34#

Signal #2

4	l1	1016-1	0.021	0.000	100.0#	0#	-1.81#
5	l1	1016-2	0.046	0.000	100.0#	0#	-1.98#
6	l1	1016-3	0.092	0.000	100.0#	0#	-2.18#
7	l1	1016-4	0.034	0.000	100.0#	0#	-2.24#
8	l1	1016-5	0.029	0.000	100.0#	0#	-2.45#
9	l2	1260-1	0.054	0.000	100.0#	0#	-3.06#
10	l2	1260-2	0.062	0.000	100.0#	0#	-3.16#
11	l2	1260-3	0.048	0.000	100.0#	0#	-3.56#

Evaluate Continuing Calibration Report

Data Path : I:\PCB\Pest2\2024\240506I\
Data File : P2240506i-14.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 06 May 2024 10:33 pm
Operator : pest2:rmp
Sample   : cicv3262,42,,pp 11467
Misc   : WG1918477,,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 14 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 07 16:45:36 2024
Quant Method : I:\PCB\Pest2\2024\240506I\P2_pcb_05_06_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Tue May 07 16:37:24 2024
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(Min)
12 l2	1260-4	0.096	0.000	100.0#	0#	-3.68#
13 l2	1260-5	0.066	0.000	100.0#	0#	-3.89#
15 l3	1221-2	0.015	0.000	100.0#	0#	-1.72#
16 l3	1221-3	0.00933	0.00000	100.0#	0#	-1.78#
17 l3	1221-4	0.034	0.000	100.0#	0#	-1.81#
18 l4	1254-1	0.046	0.000	100.0#	0#	-2.65#
19 l4	1254-2	0.052	0.000	100.0#	0#	-2.73#
20 l4	1254-3	0.078	0.000	100.0#	0#	-2.96#
21 l4	1254-4	0.048	0.000	100.0#	0#	-3.07#
22 l4	1254-5	0.071	0.000	100.0#	0#	-3.35#
24 l6	1242-1	0.017	0.000	100.0#	0#	-1.80#
25 l6	1242-2	0.038	0.000	100.0#	0#	-1.97#
26 l6	1242-3	0.073	0.000	100.0#	0#	-2.18#
27 l6	1242-4	0.029	0.000	100.0#	0#	-2.24#
28 l6	1242-5	0.022	0.000	100.0#	0#	-2.62#
29 l9	1268-1	0.119	0.000	100.0#	0#	-3.88#
30 l9	1268-2	0.110	0.000	100.0#	0#	-3.90#
31 l9	1268-3	0.090	0.000	100.0#	0#	-4.05#
32 l9	1268-4	0.039	0.000	100.0#	0#	-4.20#
33 l9	1268-5	0.245	0.000	100.0#	0#	-4.38#
35 l7	1248-1	0.052	0.000	100.0#	0#	-2.17#
36 l7	1248-2	0.034	0.000	100.0#	0#	-2.32#
37 l7	1248-3	0.043	0.000	100.0#	0#	-2.45#
38 l7	1248-4	0.048	0.000	100.0#	0#	-2.62#
39 l7	1248-5	0.054	0.000	100.0#	0#	-2.65#

* Evaluation of CC level amount vs concentration.
(#) = Out of Range SPCC's out = 0 CCC's out = 0
(^) = ISTD area calculated using ICAL average

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240506I\
Data File : P2240506i-14.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 06 May 2024 10:33 pm
Operator : pest2:rmp
Sample : cicv3262,42,,pp 11467
Misc : WG1918477,,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 14 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 07 16:45:36 2024
Quant Method : I:\PCB\Pest2\2024\240506I\P2_pcb_05_06_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Tue May 07 16:37:24 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1660_1br2nb	1.161	1.230	360.6E6	281.6E6	25.000	25.000
14) i	2154_1br2nb	1.161	1.230	360.6E6	281.6E6	25.000	25.000
23) i	4268_1br2nb	1.161	1.230	360.6E6	281.6E6	25.000	25.000
34) i	1248_1br2nb	1.161	1.230	360.6E6	281.6E6	25.000	25.000
40) i	3262_1br2nb	1.161	1.230	360.6E6	281.6E6	25.000	25.000
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	1.447	1.605	313.7E6	221.8E6	16.592M3	15.985
	Spiked Amount	20.000	Range 30 - 150		Recovery =	82.96%	79.92%
3) s	Decachlorobi	4.023	4.536	454.7E6	233.8E6	37.216	35.778
	Spiked Amount	20.000	Range 30 - 150		Recovery =	186.08%#	178.89%#
	Target Compounds						
4) l1	1016-1	0.000	0.000	0	0	N.D. d	N.D. d
5) l1	1016-2	0.000	0.000	0	0	N.D. d	N.D. d
6) l1	1016-3	0.000	0.000	0	0	N.D. d	N.D. d
7) l1	1016-4	0.000	0.000	0	0	N.D. d	N.D. d
8) l1	1016-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1016-1			0	0	N.D.	N.D.
	Average 1016-1					0.000	0.000
9) l2	1260-1	0.000	0.000	0	0	N.D. d	N.D. d
10) l2	1260-2	0.000	0.000	0	0	N.D. d	N.D. d
11) l2	1260-3	0.000	0.000	0	0	N.D. d	N.D. d
12) l2	1260-4	0.000	0.000	0	0	N.D. d	N.D. d
13) l2	1260-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1260-1			0	0	N.D.	N.D.
	Average 1260-1					0.000	0.000
15) l3	1221-2	0.000	0.000	0	0	N.D. d	N.D. d
16) l3	1221-3	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\PCB\Pest2\2024\240506I\
Data File : P2240506i-14.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 06 May 2024 10:33 pm
Operator : pest2:rmp
Sample : cicv3262,42,,pp 11467
Misc : WG1918477,,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 14 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 07 16:45:36 2024
Quant Method : I:\PCB\Pest2\2024\240506I\P2_pcb_05_06_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Tue May 07 16:37:24 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
17) l3	1221-4	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1221-2			0	0	N.D.	N.D.
Average	1221-2					0.000	0.000
18) l4	1254-1	0.000	0.000	0	0	N.D. d	N.D. d
19) l4	1254-2	0.000	0.000	0	0	N.D. d	N.D. d
20) l4	1254-3	0.000	0.000	0	0	N.D. d	N.D. d
21) l4	1254-4	0.000	0.000	0	0	N.D. d	N.D. d
22) l4	1254-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1254-1			0	0	N.D.	N.D.
Average	1254-1					0.000	0.000
24) l6	1242-1	0.000	0.000	0	0	N.D. d	N.D. d
25) l6	1242-2	0.000	0.000	0	0	N.D. d	N.D. d
26) l6	1242-3	0.000	0.000	0	0	N.D. d	N.D. d
27) l6	1242-4	0.000	0.000	0	0	N.D. d	N.D. d
28) l6	1242-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1242-1			0	0	N.D.	N.D.
Average	1242-1					0.000	0.000
29) l9	1268-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l9	1268-2	0.000	0.000	0	0	N.D. d	N.D. d
31) l9	1268-3	0.000	0.000	0	0	N.D. d	N.D. d
32) l9	1268-4	0.000	0.000	0	0	N.D. d	N.D. d
33) l9	1268-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1268-1			0	0	N.D.	N.D.
Average	1268-1					0.000	0.000
35) l7	1248-1	0.000	0.000	0	0	N.D. d	N.D. d
36) l7	1248-2	0.000	0.000	0	0	N.D. d	N.D. d
37) l7	1248-3	0.000	0.000	0	0	N.D. d	N.D. d
38) l7	1248-4	0.000	0.000	0	0	N.D. d	N.D. d
39) l7	1248-5	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240506I\
Data File : P2240506i-14.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 06 May 2024 10:33 pm
Operator : pest2:rmp
Sample : cicv3262,42,,pp 11467
Misc : WG1918477,,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 14 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 07 16:45:36 2024
Quant Method : I:\PCB\Pest2\2024\240506I\P2_pcb_05_06_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Tue May 07 16:37:24 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Sum	1248-1			0	0	N.D.	N.D.
Average	1248-1					0.000	0.000
41) l5	1232-1	1.587	1.806	100.3E6	72884282	266.130	260.213M4
42) l5	1232-2	1.729	1.978	82707706	67314394	238.896	241.942
43) l5	1232-3	1.918	2.180	173.9E6	120.8E6	240.092	239.618
44) l5	1232-4	1.973	2.240	71566461	48899768	243.151	239.904
45) l5	1232-5	2.327	2.627	51913229	32015172	240.426	218.810
Sum	1232-1			480.3E6	341.9E6	1228.696	1200.487
Average	1232-1					245.739	240.097
46) l8	1262-1	2.818	3.163	258.8E6	131.1E6	254.785	239.557
47) l8	1262-2	3.010	3.397	327.2E6	174.2E6	250.297	237.637
48) l8	1262-3	3.134	3.556	281.9E6	159.6E6	246.303	240.220
49) l8	1262-4	3.290	3.685	554.6E6	296.5E6	240.099	239.507
50) l8	1262-5	3.765	4.202	176.8E6	109.5E6	246.126M4	250.504
Sum	1262-1			1599.3E6	870.9E6	1237.610	1207.425
Average	1262-1					247.522	241.485

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	1262-1			1599.3E6	870.9E6	1237.610	1207.425
Average	1262-1					247.522	241.485

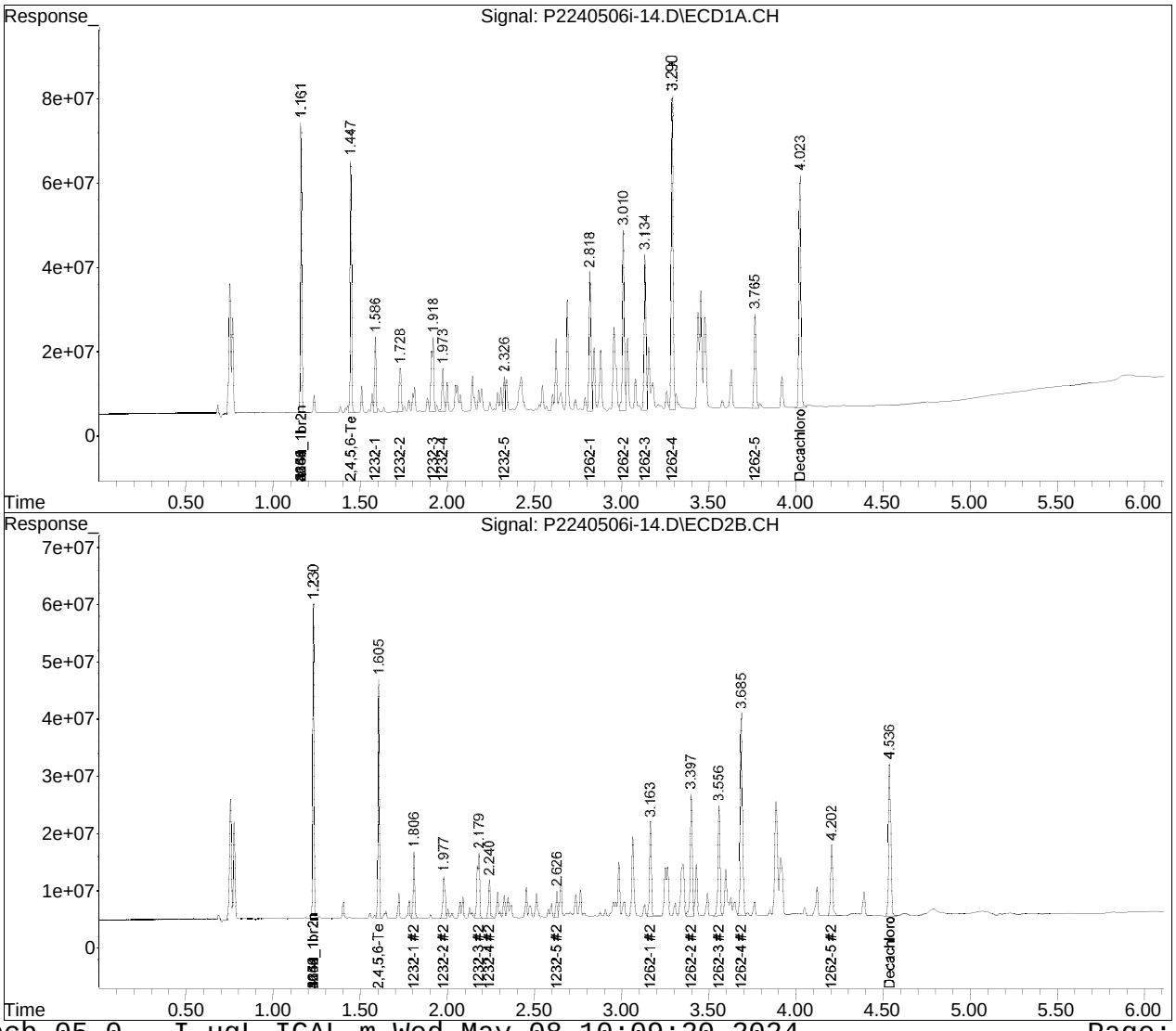
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PCB\Pest2\2024\240506I\
Data File : P2240506i-14.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 06 May 2024 10:33 pm
Operator : pest2:rmp
Sample : cicv3262,42,,pp 11467
Misc : WG1918477,,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 14 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 07 16:45:36 2024
Quant Method : I:\PCB\Pest2\2024\240506I\P2_pcb_05_06_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Tue May 07 16:37:24 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

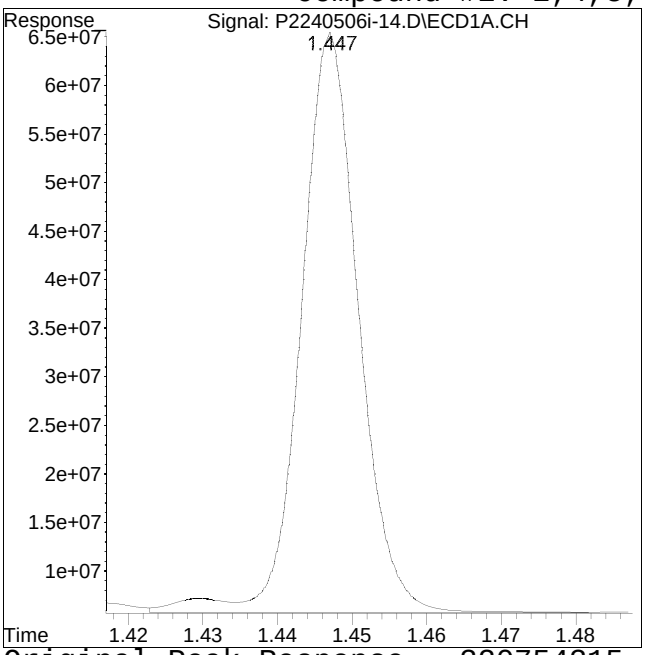
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

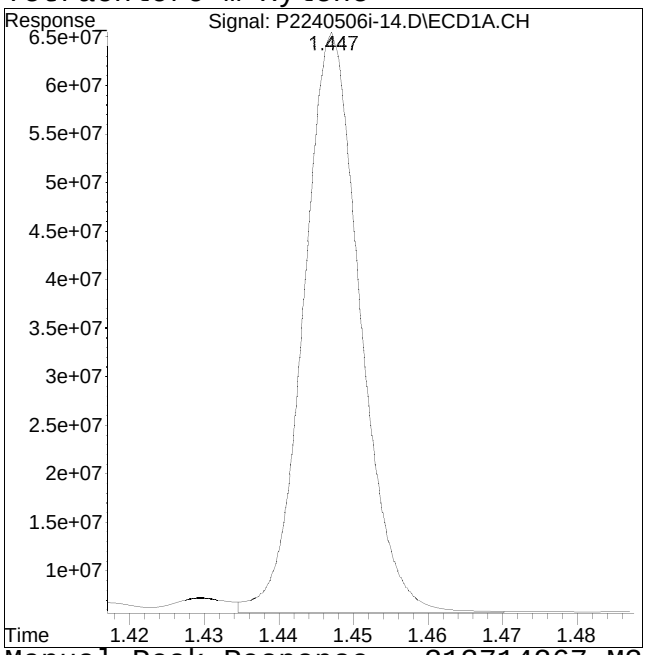


Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-14.D Operator : pest2:rmp
Date Inj'd : 5/6/2024 10:33 pm Instrument : Pest 2
Sample : cicv3262,42,,pp 11467 Quant Date : 5/7/2024 4:45 pm

Compound #2: 2,4,5,6-Tetrachloro-m-xylene



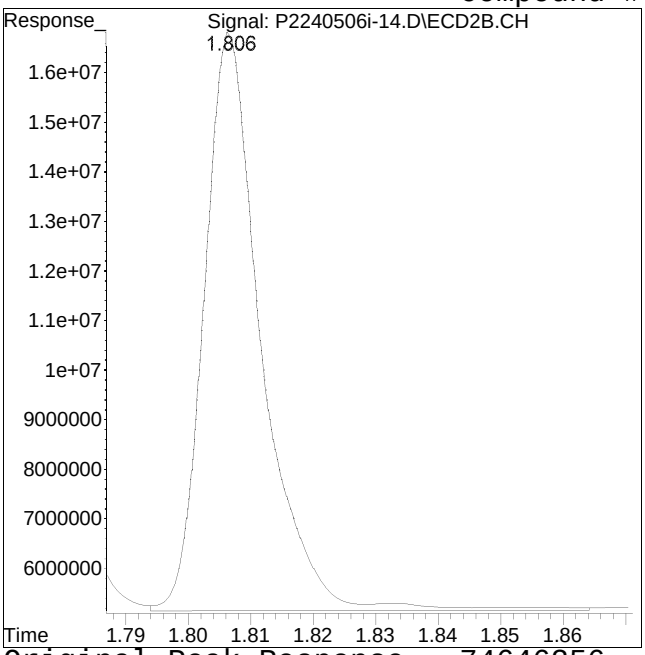


Original Peak Response = 320754315 Manual Peak Response = 313714267 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

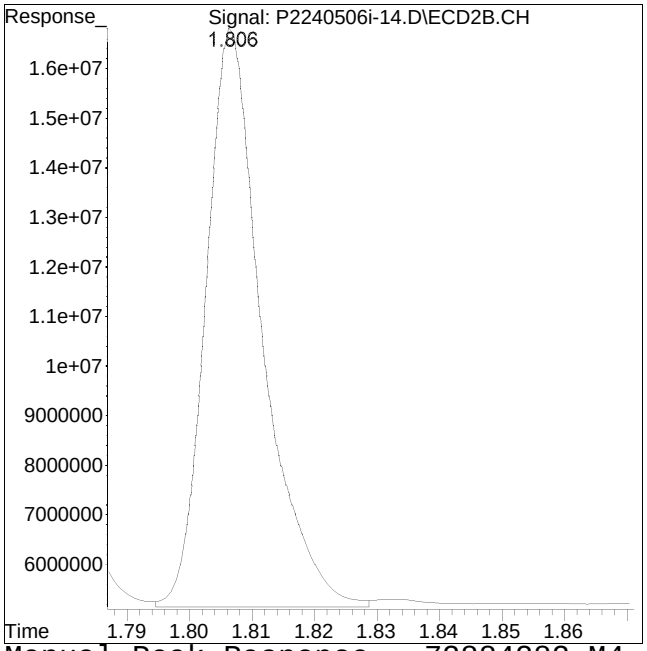
Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-14.D Operator : pest2:rmp
Date Inj'd : 5/6/2024 10:33 pm Instrument : Pest 2
Sample : cicv3262,42,,pp 11467 Quant Date : 5/7/2024 4:45 pm

Compound #92: 1232-1 #2



Original Peak Response = 74646256



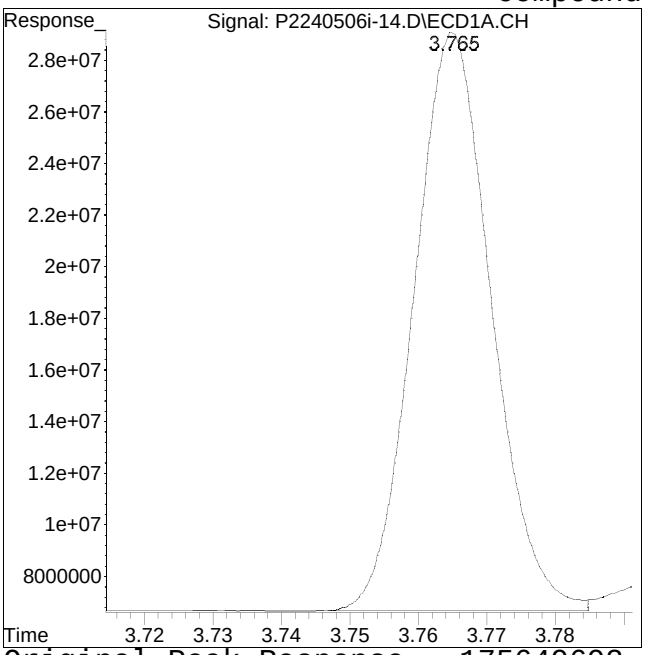
Manual Peak Response = 72884282 M4

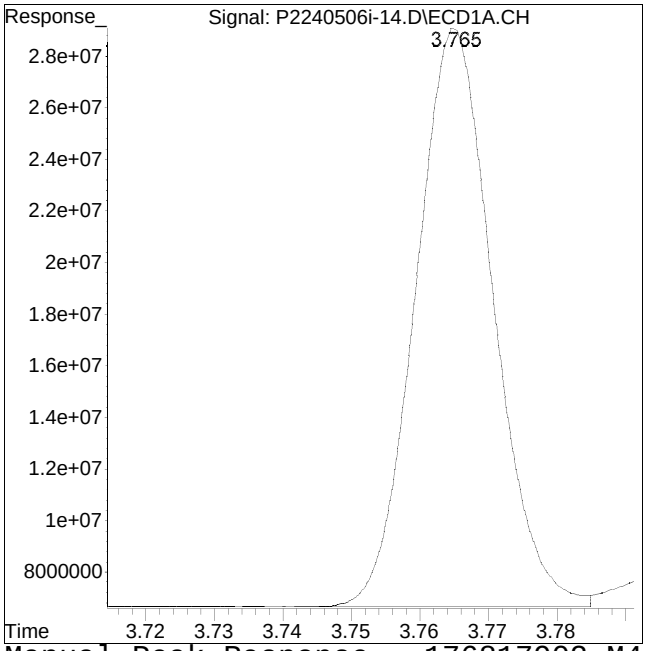
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-14.D Operator : pest2:rmp
Date Inj'd : 5/6/2024 10:33 pm Instrument : Pest 2
Sample : cicv3262,42,,pp 11467 Quant Date : 5/7/2024 4:45 pm

Compound #50: 1262-5





Original Peak Response = 175649692 Manual Peak Response = 176817902 M4
M4 = Poor automated baseline construction.

Evaluate Continuing Calibration Report

Data Path : I:\PCB\Pest2\2024\240506I\
Data File : P2240506i-15.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 06 May 2024 10:42 pm
Operator : pest2:rmp
Sample   : cicv1248,42,,pp 11461
Misc   : WG1918477,,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 15 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 07 16:44:36 2024
Quant Method : I:\PCB\Pest2\2024\240506I\P2_pcb_05_06_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Tue May 07 16:37:24 2024
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
1	i	1660_1br2nb	^	1.000	1.000	0.0	94	0.00
2	s	2,4,5,6-Tetrachloro-m-xylen		1.311	1.298	1.0	74	0.00
3	s	Decachlorobiphenyl		0.847	0.986	-16.4	90	0.00
14	i	2154_1br2nb	^	1.000	1.000	0.0	104	0.00
23	i	4268_1br2nb	^	1.000	1.000	0.0	105	0.00
34	i	1248_1br2nb	^	1.000	1.000	0.0	100	0.00
35	l7	1248-1		0.057	0.060	-5.3	105	0.01
36	l7	1248-2		0.074	0.065	12.2	89	0.00
37	l7	1248-3		0.065	0.059	9.2	90	0.00
38	l7	1248-4		0.058	0.052	10.3	90	0.00
39	l7	1248-5		0.050	0.051	-2.0	101	0.00
40	i	3262_1br2nb	^	1.000	1.000	0.0	104	0.00

Signal #2

1	i	1660_1br2nb	^	1.000	1.000	0.0	95	0.00
2	s	2,4,5,6-Tetrachloro-m-xyl		1.232	1.222	0.8	75	0.00
3	s	Decachlorobiphenyl		0.580	0.675	-16.4	93	0.00
14	i	2154_1br2nb	^	1.000	1.000	0.0	107	0.00
23	i	4268_1br2nb	^	1.000	1.000	0.0	105	0.00
34	i	1248_1br2nb	^	1.000	1.000	0.0	101	0.00
35	l7	1248-1		0.052	0.056	-7.7	109	0.01
36	l7	1248-2		0.034	0.032	5.9	93	0.00

Evaluate Continuing Calibration Report

Data Path : I:\PCB\Pest2\2024\240506I\
Data File : P2240506i-15.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 06 May 2024 10:42 pm
Operator : pest2:rmp
Sample   : cicv1248,42,,pp 11461
Misc   : WG1918477,,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 15 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 07 16:44:36 2024
Quant Method : I:\PCB\Pest2\2024\240506I\P2_pcb_05_06_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Tue May 07 16:37:24 2024
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
37	l7	1248-3		0.043	0.040	7.0	92	0.00
38	l7	1248-4		0.048	0.044	8.3	92	0.00
39	l7	1248-5		0.054	0.052	3.7	96	0.00
40	i	3262_1br2nb	^	1.000	1.000	0.0	108	0.00

Evaluate Continuing Calibration Report - Not Founds

4	l1	1016-1		0.022	0.000	100.0#	0#	-1.59#
5	l1	1016-2		0.049	0.000	100.0#	0#	-1.73#
6	l1	1016-3		0.101	0.000	100.0#	0#	-1.92#
7	l1	1016-4		0.040	0.000	100.0#	0#	-1.97#
8	l1	1016-5		0.045	0.000	100.0#	0#	-2.14#
9	l2	1260-1		0.065	0.000	100.0#	0#	-2.69#
10	l2	1260-2		0.097	0.000	100.0#	0#	-2.82#
11	l2	1260-3		0.060	0.000	100.0#	0#	-3.13#
12	l2	1260-4		0.130	0.000	100.0#	0#	-3.29#
13	l2	1260-5		0.091	0.000	100.0#	0#	-3.44#
15	l3	1221-2		0.015	0.000	100.0#	0#	-1.51#
16	l3	1221-3		0.00895	0.00000	100.0#	0#	-1.57#
17	l3	1221-4		0.035	0.000	100.0#	0#	-1.58#
18	l4	1254-1		0.050	0.000	100.0#	0#	-2.31#
19	l4	1254-2		0.090	0.000	100.0#	0#	-2.42#
20	l4	1254-3		0.095	0.000	100.0#	0#	-2.60#
21	l4	1254-4		0.067	0.000	100.0#	0#	-2.73#
22	l4	1254-5		0.091	0.000	100.0#	0#	-2.95#
24	l6	1242-1		0.019	0.000	100.0#	0#	-1.58#
25	l6	1242-2		0.040	0.000	100.0#	0#	-1.73#
26	l6	1242-3		0.087	0.000	100.0#	0#	-1.91#
27	l6	1242-4		0.035	0.000	100.0#	0#	-1.97#
28	l6	1242-5		0.027	0.000	100.0#	0#	-2.32#

Evaluate Continuing Calibration Report

Data Path : I:\PCB\Pest2\2024\240506I\
Data File : P2240506i-15.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 06 May 2024 10:42 pm
Operator : pest2:rmp
Sample   : cicv1248,42,,pp 11461
Misc   : WG1918477,,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 15 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 07 16:44:36 2024
Quant Method : I:\PCB\Pest2\2024\240506I\P2_pcb_05_06_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Tue May 07 16:37:24 2024
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(Min)
29	l9	1268-1	0.181	0.000	100.0#	0#	-3.45#
30	l9	1268-2	0.167	0.000	100.0#	0#	-3.47#
31	l9	1268-3	0.133	0.000	100.0#	0#	-3.57#
32	l9	1268-4	0.058	0.000	100.0#	0#	-3.76#
33	l9	1268-5	0.392	0.000	100.0#	0#	-3.92#
41	l5	1232-1	0.026	0.000	100.0#	0#	-1.58#
42	l5	1232-2	0.024	0.000	100.0#	0#	-1.73#
43	l5	1232-3	0.050	0.000	100.0#	0#	-1.92#
44	l5	1232-4	0.020	0.000	100.0#	0#	-1.97#
45	l5	1232-5	0.015	0.000	100.0#	0#	-2.32#
46	l8	1262-1	0.070	0.000	100.0#	0#	-2.82#
47	l8	1262-2	0.091	0.000	100.0#	0#	-3.01#
48	l8	1262-3	0.079	0.000	100.0#	0#	-3.13#
49	l8	1262-4	0.160	0.000	100.0#	0#	-3.29#
50	l8	1262-5	0.050	0.000	100.0#	0#	-3.76#
Signal #2							
4	l1	1016-1	0.021	0.000	100.0#	0#	-1.81#
5	l1	1016-2	0.046	0.000	100.0#	0#	-1.98#
6	l1	1016-3	0.092	0.000	100.0#	0#	-2.18#
7	l1	1016-4	0.034	0.000	100.0#	0#	-2.24#
8	l1	1016-5	0.029	0.000	100.0#	0#	-2.45#
9	l2	1260-1	0.054	0.000	100.0#	0#	-3.06#
10	l2	1260-2	0.062	0.000	100.0#	0#	-3.16#
11	l2	1260-3	0.048	0.000	100.0#	0#	-3.56#
12	l2	1260-4	0.096	0.000	100.0#	0#	-3.68#
13	l2	1260-5	0.066	0.000	100.0#	0#	-3.89#
15	l3	1221-2	0.015	0.000	100.0#	0#	-1.72#
16	l3	1221-3	0.00933	0.00000	100.0#	0#	-1.78#
17	l3	1221-4	0.034	0.000	100.0#	0#	-1.81#

Evaluate Continuing Calibration Report

Data Path : I:\PCB\Pest2\2024\240506I\
Data File : P2240506i-15.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 06 May 2024 10:42 pm
Operator : pest2:rmp
Sample   : cicv1248,42,,pp 11461
Misc   : WG1918477,,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 15 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 07 16:44:36 2024
Quant Method : I:\PCB\Pest2\2024\240506I\P2_pcb_05_06_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Tue May 07 16:37:24 2024
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(Min)
18 l4	1254-1	0.046	0.000	100.0#	0#	-2.65#
19 l4	1254-2	0.052	0.000	100.0#	0#	-2.73#
20 l4	1254-3	0.078	0.000	100.0#	0#	-2.96#
21 l4	1254-4	0.048	0.000	100.0#	0#	-3.07#
22 l4	1254-5	0.071	0.000	100.0#	0#	-3.35#
24 l6	1242-1	0.017	0.000	100.0#	0#	-1.80#
25 l6	1242-2	0.038	0.000	100.0#	0#	-1.97#
26 l6	1242-3	0.073	0.000	100.0#	0#	-2.18#
27 l6	1242-4	0.029	0.000	100.0#	0#	-2.24#
28 l6	1242-5	0.022	0.000	100.0#	0#	-2.62#
29 l9	1268-1	0.119	0.000	100.0#	0#	-3.88#
30 l9	1268-2	0.110	0.000	100.0#	0#	-3.90#
31 l9	1268-3	0.090	0.000	100.0#	0#	-4.05#
32 l9	1268-4	0.039	0.000	100.0#	0#	-4.20#
33 l9	1268-5	0.245	0.000	100.0#	0#	-4.38#
41 l5	1232-1	0.025	0.000	100.0#	0#	-1.80#
42 l5	1232-2	0.025	0.000	100.0#	0#	-1.98#
43 l5	1232-3	0.045	0.000	100.0#	0#	-2.18#
44 l5	1232-4	0.018	0.000	100.0#	0#	-2.24#
45 l5	1232-5	0.013	0.000	100.0#	0#	-2.62#
46 l8	1262-1	0.049	0.000	100.0#	0#	-3.16#
47 l8	1262-2	0.065	0.000	100.0#	0#	-3.39#
48 l8	1262-3	0.059	0.000	100.0#	0#	-3.55#
49 l8	1262-4	0.110	0.000	100.0#	0#	-3.68#
50 l8	1262-5	0.039	0.000	100.0#	0#	-4.20#

* Evaluation of CC level amount vs concentration.
(#) = Out of Range SPCC's out = 0 CCC's out = 0
(^) = ISTD area calculated using ICAL average

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240506I\
Data File : P2240506i-15.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 06 May 2024 10:42 pm
Operator : pest2:rmp
Sample : cicv1248,42,,pp 11461
Misc : WG1918477,,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 15 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 07 16:44:36 2024
Quant Method : I:\PCB\Pest2\2024\240506I\P2_pcb_05_06_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Tue May 07 16:37:24 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1660_1br2nb	1.162	1.230	394.7E6	292.1E6	25.000	25.000
14) i	2154_1br2nb	1.162	1.230	394.7E6	292.1E6	25.000	25.000
23) i	4268_1br2nb	1.162	1.230	394.7E6	292.1E6	25.000	25.000
34) i	1248_1br2nb	1.162	1.230	394.7E6	292.1E6	25.000	25.000
40) i	3262_1br2nb	1.162	1.230	394.7E6	292.1E6	25.000	25.000
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	1.447	1.605	327.8E6	228.4E6	15.843	15.872
	Spiked Amount 20.000	Range 30 - 150		Recovery =		79.22%	79.36%
3) s	Decachlorobi	4.022	4.537	498.3E6	252.5E6	37.269	37.259
	Spiked Amount 20.000	Range 30 - 150		Recovery =		186.34%#	186.30%#
	Target Compounds						
4) l1	1016-1	0.000	0.000	0	0	N.D. d	N.D. d
5) l1	1016-2	0.000	0.000	0	0	N.D. d	N.D. d
6) l1	1016-3	0.000	0.000	0	0	N.D. d	N.D. d
7) l1	1016-4	0.000	0.000	0	0	N.D. d	N.D. d
8) l1	1016-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1016-1			0	0	N.D.	N.D.
	Average 1016-1					0.000	0.000
9) l2	1260-1	0.000	0.000	0	0	N.D. d	N.D. d
10) l2	1260-2	0.000	0.000	0	0	N.D. d	N.D. d
11) l2	1260-3	0.000	0.000	0	0	N.D. d	N.D. d
12) l2	1260-4	0.000	0.000	0	0	N.D. d	N.D. d
13) l2	1260-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1260-1			0	0	N.D.	N.D.
	Average 1260-1					0.000	0.000
15) l3	1221-2	0.000	0.000	0	0	N.D. d	N.D. d
16) l3	1221-3	0.000	0.000	0	0	N.D. d	N.D. d
17) l3	1221-4	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240506I\
Data File : P2240506i-15.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 06 May 2024 10:42 pm
Operator : pest2:rmp
Sample : cicv1248,42,,pp 11461
Misc : WG1918477,,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 15 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 07 16:44:36 2024
Quant Method : I:\PCB\Pest2\2024\240506I\P2_pcb_05_06_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Tue May 07 16:37:24 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Sum	1221-2			0	0	N.D.	N.D.
Average	1221-2					0.000	0.000
18) l4	1254-1	0.000	0.000	0	0	N.D. d	N.D. d
19) l4	1254-2	0.000	0.000	0	0	N.D. d	N.D. d
20) l4	1254-3	0.000	0.000	0	0	N.D. d	N.D. d
21) l4	1254-4	0.000	0.000	0	0	N.D. d	N.D. d
22) l4	1254-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1254-1			0	0	N.D.	N.D.
Average	1254-1					0.000	0.000
24) l6	1242-1	0.000	0.000	0	0	N.D. d	N.D. d
25) l6	1242-2	0.000	0.000	0	0	N.D. d	N.D. d
26) l6	1242-3	0.000	0.000	0	0	N.D. d	N.D. d
27) l6	1242-4	0.000	0.000	0	0	N.D. d	N.D. d
28) l6	1242-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1242-1			0	0	N.D.	N.D.
Average	1242-1					0.000	0.000
29) l9	1268-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l9	1268-2	0.000	0.000	0	0	N.D. d	N.D. d
31) l9	1268-3	0.000	0.000	0	0	N.D. d	N.D. d
32) l9	1268-4	0.000	0.000	0	0	N.D. d	N.D. d
33) l9	1268-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1268-1			0	0	N.D.	N.D.
Average	1268-1					0.000	0.000
35) l7	1248-1	1.918	2.179	237.0E6	165.0E6	263.140	271.725
36) l7	1248-2	2.047	2.325	258.1E6	92555766	222.123M1	230.259
37) l7	1248-3	2.144	2.451	232.7E6	115.4E6	226.522	228.395
38) l7	1248-4	2.326	2.626	206.5E6	127.5E6	225.373	229.278
39) l7	1248-5	2.339	2.650	201.3E6	150.8E6	253.464	237.742

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240506I\
Data File : P2240506i-15.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 06 May 2024 10:42 pm
Operator : pest2:rmp
Sample : cicv1248,42,,pp 11461
Misc : WG1918477,,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 15 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 07 16:44:36 2024
Quant Method : I:\PCB\Pest2\2024\240506I\P2_pcb_05_06_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Tue May 07 16:37:24 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Sum	1248-1			1135.7E6	651.2E6	1190.621	1197.399
Average	1248-1					238.124	239.480
41) l5	1232-1	0.000	0.000	0	0	N.D. d	N.D. d
42) l5	1232-2	0.000	0.000	0	0	N.D. d	N.D. d
43) l5	1232-3	0.000	0.000	0	0	N.D. d	N.D. d
44) l5	1232-4	0.000	0.000	0	0	N.D. d	N.D. d
45) l5	1232-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1232-1			0	0	N.D.	N.D.
Average	1232-1					0.000	0.000
46) l8	1262-1	0.000	0.000	0	0	N.D. d	N.D. d
47) l8	1262-2	0.000	0.000	0	0	N.D. d	N.D. d
48) l8	1262-3	0.000	0.000	0	0	N.D. d	N.D. d
49) l8	1262-4	0.000	0.000	0	0	N.D. d	N.D. d
50) l8	1262-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1262-1			0	0	N.D.	N.D.
Average	1262-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	1262-1			0	0	N.D.	N.D.
Average	1262-1					0.000	0.000

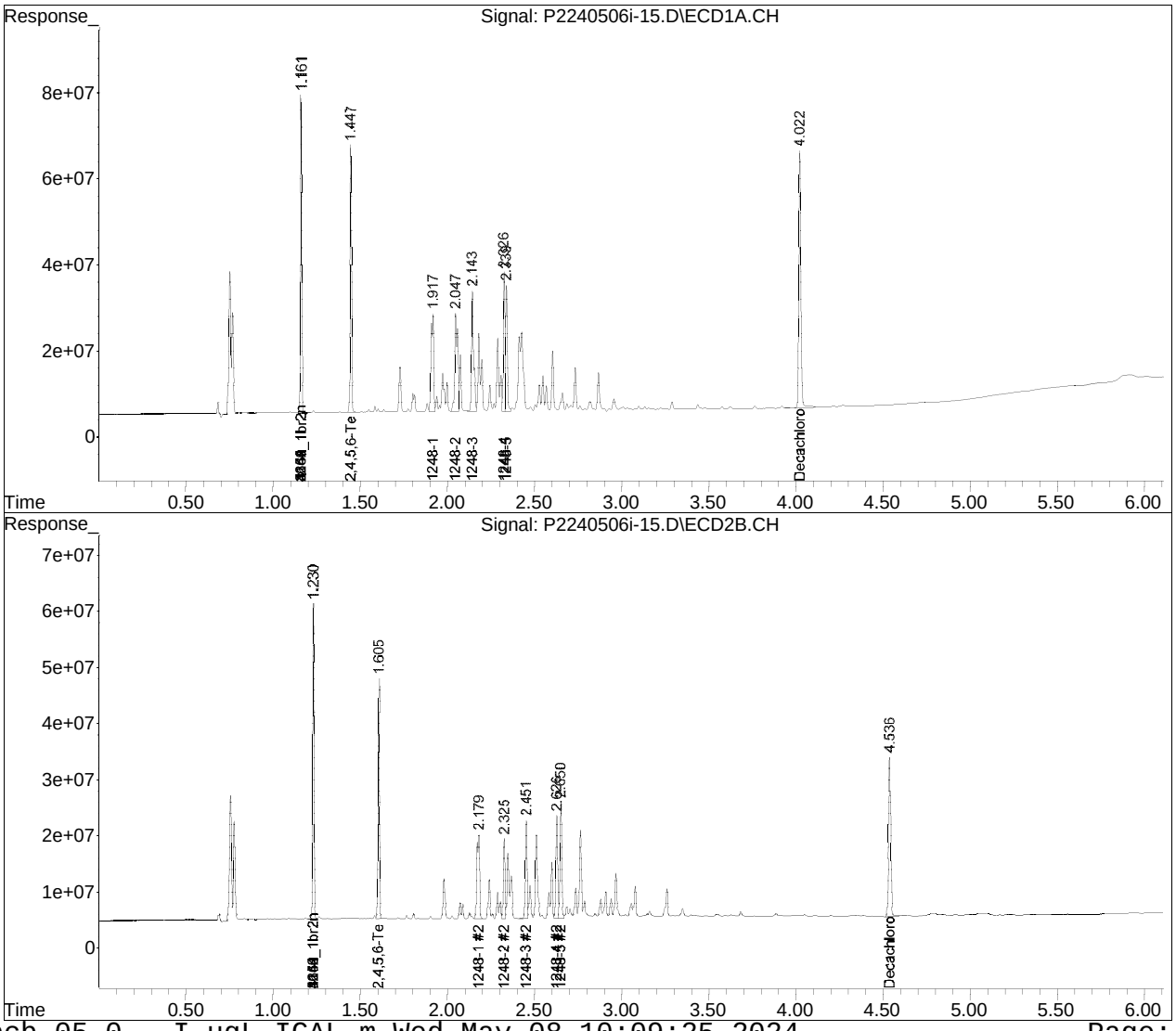
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PCB\Pest2\2024\240506I\
Data File : P2240506i-15.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 06 May 2024 10:42 pm
Operator : pest2:rmp
Sample : cicv1248,42,,pp 11461
Misc : WG1918477,,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 15 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 07 16:44:36 2024
Quant Method : I:\PCB\Pest2\2024\240506I\P2_pcb_05_06_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Tue May 07 16:37:24 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

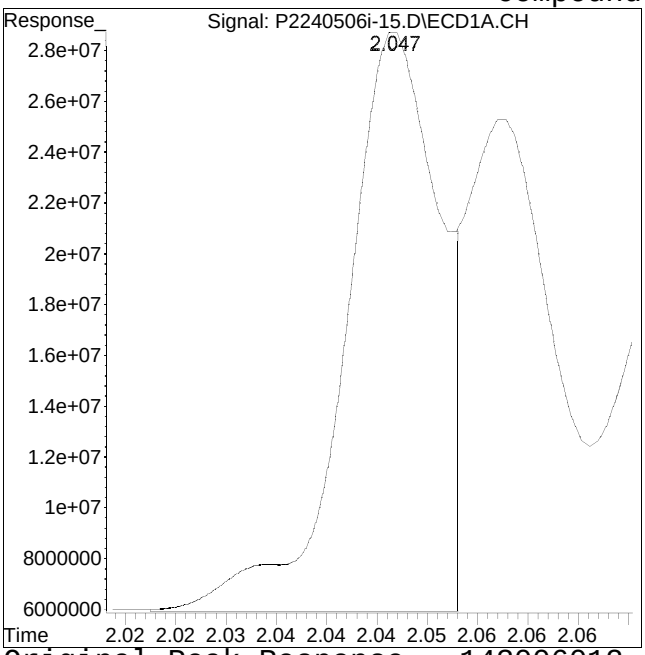
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

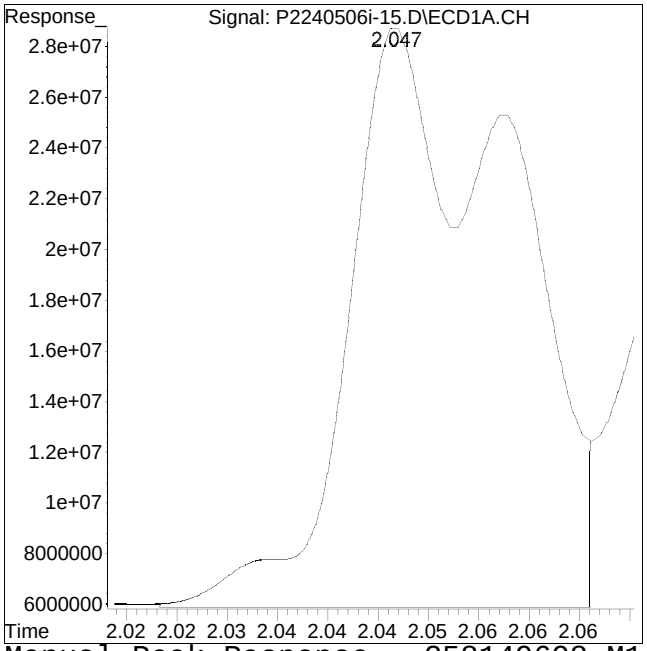


Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-15.D Operator : pest2:rmp
Date Inj'd : 5/6/2024 10:42 pm Instrument : Pest 2
Sample : cicv1248,42,,pp 11461 Quant Date : 5/7/2024 4:44 pm

Compound #36: 1248-2





Original Peak Response = 143006012 Manual Peak Response = 258149698 M1
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Evaluate Continuing Calibration Report

Data Path : I:\PCB\Pest2\2024\240506I\
Data File : P2240506i-16.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 06 May 2024 10:52 pm
Operator : pest2:rmp
Sample   : cicv2154,42,,pp 11460
Misc   : WG1918477,,ical
ALS Vial : 16 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 07 16:42:20 2024
Quant Method : I:\PCB\Pest2\2024\240506I\P2_pcb_05_06_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Tue May 07 16:37:24 2024
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
1	i	1660_1br2nb	^	1.000	1.000	0.0	98	0.00
2	s	2,4,5,6-Tetrachloro-m-xylen		1.311	1.178	10.1	70	0.00
3	s	Decachlorobiphenyl		0.847	0.861	-1.7	82	0.00
14	i	2154_1br2nb	^	1.000	1.000	0.0	107	0.00
15	l3	1221-2		0.015	0.012	20.0	87	0.00
16	l3	1221-3		0.00895	0.00709	20.8#	85	0.00
17	l3	1221-4		0.035	0.028	20.0#	87	0.00
18	l4	1254-1		0.050	0.044	12.0	93	0.00
19	l4	1254-2		0.090	0.080	11.1	96	0.00
20	l4	1254-3		0.095	0.085	10.5	96	0.00
21	l4	1254-4		0.067	0.059	11.9	95	0.00
22	l4	1254-5		0.091	0.077	15.4	90	0.00
23	i	4268_1br2nb	^	1.000	1.000	0.0	109	0.00
34	i	1248_1br2nb	^	1.000	1.000	0.0	103	0.00
40	i	3262_1br2nb	^	1.000	1.000	0.0	108	0.00

Signal #2

1	i	1660_1br2nb	^	1.000	1.000	0.0	98	0.00
2	s	2,4,5,6-Tetrachloro-m-xyl		1.232	1.119	9.2	71	0.00
3	s	Decachlorobiphenyl		0.580	0.612	-5.5	87	0.00
14	i	2154_1br2nb	^	1.000	1.000	0.0	111	0.00
15	l3	1221-2		0.015	0.012	20.0	88	0.00
16	l3	1221-3		0.00933	0.00756	19.0	90	0.00
17	l3	1221-4		0.034	0.028	17.6	91	0.00

Evaluate Continuing Calibration Report

Data Path : I:\PCB\Pest2\2024\240506I\
Data File : P2240506i-16.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 06 May 2024 10:52 pm
Operator : pest2:rmp
Sample   : cicv2154,42,,pp 11460
Misc   : WG1918477,,ical
ALS Vial : 16 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 07 16:42:20 2024
Quant Method : I:\PCB\Pest2\2024\240506I\P2_pcb_05_06_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Tue May 07 16:37:24 2024
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
18	l4	1254-1		0.046	0.042	8.7	101	0.00
19	l4	1254-2		0.052	0.047	9.6	100	0.00
20	l4	1254-3		0.078	0.070	10.3	100	0.00
21	l4	1254-4		0.048	0.047	2.1	108	0.00
22	l4	1254-5		0.071	0.060	15.5	94	0.00
23	i	4268_1br2nb	^	1.000	1.000	0.0	109	0.00
34	i	1248_1br2nb	^	1.000	1.000	0.0	105	0.00
40	i	3262_1br2nb	^	1.000	1.000	0.0	112	0.00

Evaluate Continuing Calibration Report - Not Founds

4	l1	1016-1		0.022	0.000	100.0#	0#	-1.59#
5	l1	1016-2		0.049	0.000	100.0#	0#	-1.73#
6	l1	1016-3		0.101	0.000	100.0#	0#	-1.92#
7	l1	1016-4		0.040	0.000	100.0#	0#	-1.97#
8	l1	1016-5		0.045	0.000	100.0#	0#	-2.14#
9	l2	1260-1		0.065	0.000	100.0#	0#	-2.69#
10	l2	1260-2		0.097	0.000	100.0#	0#	-2.82#
11	l2	1260-3		0.060	0.000	100.0#	0#	-3.13#
12	l2	1260-4		0.130	0.000	100.0#	0#	-3.29#
13	l2	1260-5		0.091	0.000	100.0#	0#	-3.44#
24	l6	1242-1		0.019	0.000	100.0#	0#	-1.58#
25	l6	1242-2		0.040	0.000	100.0#	0#	-1.73#
26	l6	1242-3		0.087	0.000	100.0#	0#	-1.91#
27	l6	1242-4		0.035	0.000	100.0#	0#	-1.97#
28	l6	1242-5		0.027	0.000	100.0#	0#	-2.32#
29	l9	1268-1		0.181	0.000	100.0#	0#	-3.45#
30	l9	1268-2		0.167	0.000	100.0#	0#	-3.47#

Data Path : I:\PCB\Pest2\2024\240506I\
Data File : P2240506i-16.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 06 May 2024 10:52 pm
Operator : pest2:rmp
Sample   : cicv2154,42,,pp 11460
Misc   : WG1918477,,ical
ALS Vial : 16 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 07 16:42:20 2024
Quant Method : I:\PCB\Pest2\2024\240506I\P2_pcb_05_06_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Tue May 07 16:37:24 2024
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(Min)
31	l9	1268-3	0.133	0.000	100.0#	0#	-3.57#
32	l9	1268-4	0.058	0.000	100.0#	0#	-3.76#
33	l9	1268-5	0.392	0.000	100.0#	0#	-3.92#
35	l7	1248-1	0.057	0.000	100.0#	0#	-1.91#
36	l7	1248-2	0.074	0.000	100.0#	0#	-2.04#
37	l7	1248-3	0.065	0.000	100.0#	0#	-2.14#
38	l7	1248-4	0.058	0.000	100.0#	0#	-2.32#
39	l7	1248-5	0.050	0.000	100.0#	0#	-2.34#
41	l5	1232-1	0.026	0.000	100.0#	0#	-1.58#
42	l5	1232-2	0.024	0.000	100.0#	0#	-1.73#
43	l5	1232-3	0.050	0.000	100.0#	0#	-1.92#
44	l5	1232-4	0.020	0.000	100.0#	0#	-1.97#
45	l5	1232-5	0.015	0.000	100.0#	0#	-2.32#
46	l8	1262-1	0.070	0.000	100.0#	0#	-2.82#
47	l8	1262-2	0.091	0.000	100.0#	0#	-3.01#
48	l8	1262-3	0.079	0.000	100.0#	0#	-3.13#
49	l8	1262-4	0.160	0.000	100.0#	0#	-3.29#
50	l8	1262-5	0.050	0.000	100.0#	0#	-3.76#

Signal #2

4	l1	1016-1	0.021	0.000	100.0#	0#	-1.81#
5	l1	1016-2	0.046	0.000	100.0#	0#	-1.98#
6	l1	1016-3	0.092	0.000	100.0#	0#	-2.18#
7	l1	1016-4	0.034	0.000	100.0#	0#	-2.24#
8	l1	1016-5	0.029	0.000	100.0#	0#	-2.45#
9	l2	1260-1	0.054	0.000	100.0#	0#	-3.06#
10	l2	1260-2	0.062	0.000	100.0#	0#	-3.16#
11	l2	1260-3	0.048	0.000	100.0#	0#	-3.56#
12	l2	1260-4	0.096	0.000	100.0#	0#	-3.68#
13	l2	1260-5	0.066	0.000	100.0#	0#	-3.89#

Evaluate Continuing Calibration Report

Data Path : I:\PCB\Pest2\2024\240506I\
Data File : P2240506i-16.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 06 May 2024 10:52 pm
Operator : pest2:rmp
Sample   : cicv2154,42,,pp 11460
Misc   : WG1918477,,ical
ALS Vial : 16 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 07 16:42:20 2024
Quant Method : I:\PCB\Pest2\2024\240506I\P2_pcb_05_06_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Tue May 07 16:37:24 2024
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(Min)
24 l6	1242-1	0.017	0.000	100.0#	0#	-1.80#
25 l6	1242-2	0.038	0.000	100.0#	0#	-1.97#
26 l6	1242-3	0.073	0.000	100.0#	0#	-2.18#
27 l6	1242-4	0.029	0.000	100.0#	0#	-2.24#
28 l6	1242-5	0.022	0.000	100.0#	0#	-2.62#
29 l9	1268-1	0.119	0.000	100.0#	0#	-3.88#
30 l9	1268-2	0.110	0.000	100.0#	0#	-3.90#
31 l9	1268-3	0.090	0.000	100.0#	0#	-4.05#
32 l9	1268-4	0.039	0.000	100.0#	0#	-4.20#
33 l9	1268-5	0.245	0.000	100.0#	0#	-4.38#
35 l7	1248-1	0.052	0.000	100.0#	0#	-2.17#
36 l7	1248-2	0.034	0.000	100.0#	0#	-2.32#
37 l7	1248-3	0.043	0.000	100.0#	0#	-2.45#
38 l7	1248-4	0.048	0.000	100.0#	0#	-2.62#
39 l7	1248-5	0.054	0.000	100.0#	0#	-2.65#
41 l5	1232-1	0.025	0.000	100.0#	0#	-1.80#
42 l5	1232-2	0.025	0.000	100.0#	0#	-1.98#
43 l5	1232-3	0.045	0.000	100.0#	0#	-2.18#
44 l5	1232-4	0.018	0.000	100.0#	0#	-2.24#
45 l5	1232-5	0.013	0.000	100.0#	0#	-2.62#
46 l8	1262-1	0.049	0.000	100.0#	0#	-3.16#
47 l8	1262-2	0.065	0.000	100.0#	0#	-3.39#
48 l8	1262-3	0.059	0.000	100.0#	0#	-3.55#
49 l8	1262-4	0.110	0.000	100.0#	0#	-3.68#
50 l8	1262-5	0.039	0.000	100.0#	0#	-4.20#

* Evaluation of CC level amount vs concentration.
(#) = Out of Range SPCC's out = 0 CCC's out = 0
(^) = ISTD area calculated using ICAL average

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240506I\
Data File : P2240506i-16.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 06 May 2024 10:52 pm
Operator : pest2:rmp
Sample : cicv2154,42,,pp 11460
Misc : WG1918477,,ical
ALS Vial : 16 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 07 16:42:20 2024
Quant Method : I:\PCB\Pest2\2024\240506I\P2_pcb_05_06_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Tue May 07 16:37:24 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1660_1br2nb	1.161	1.230	408.8E6	303.8E6	25.000M4	25.000M4
14) i	2154_1br2nb	1.161	1.230	408.8E6	303.8E6	25.000M4	25.000M4
23) i	4268_1br2nb	1.161	1.230	408.8E6	303.8E6	25.000M4	25.000M4
34) i	1248_1br2nb	1.161	1.230	408.8E6	303.8E6	25.000M4	25.000M4
40) i	3262_1br2nb	1.161	1.230	408.8E6	303.8E6	25.000M4	25.000M4
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	1.447	1.605	308.2E6	217.5E6	14.382	14.534
	Spiked Amount	20.000	Range 30 - 150		Recovery =	71.91%	72.67%
3) s	Decachlorobi	4.022	4.536	450.5E6	237.9E6	32.528M4	33.753
	Spiked Amount	20.000	Range 30 - 150		Recovery =	162.64%#	168.77%#
	Target Compounds						
4) l1	1016-1	0.000	0.000	0	0	N.D. d	N.D. d
5) l1	1016-2	0.000	0.000	0	0	N.D. d	N.D. d
6) l1	1016-3	0.000	0.000	0	0	N.D. d	N.D. d
7) l1	1016-4	0.000	0.000	0	0	N.D. d	N.D. d
8) l1	1016-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1016-1			0	0	N.D.	N.D.
	Average 1016-1					0.000	0.000
9) l2	1260-1	0.000	0.000	0	0	N.D. d	N.D. d
10) l2	1260-2	0.000	0.000	0	0	N.D. d	N.D. d
11) l2	1260-3	0.000	0.000	0	0	N.D. d	N.D. d
12) l2	1260-4	0.000	0.000	0	0	N.D. d	N.D. d
13) l2	1260-5	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240506I\
Data File : P2240506i-16.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 06 May 2024 10:52 pm
Operator : pest2:rmp
Sample : cicv2154,42,,pp 11460
Misc : WG1918477,,ical
ALS Vial : 16 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 07 16:42:20 2024
Quant Method : I:\PCB\Pest2\2024\240506I\P2_pcb_05_06_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Tue May 07 16:37:24 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Sum 1260-1			0	0	N.D.	N.D.
Average	1260-1					0.000	0.000
15) l3	1221-2	1.510	1.721	48108664	36664748	202.154	199.604
16) l3	1221-3	1.569	1.780	28986702	22977877	198.186	202.776M3
17) l3	1221-4	1.586	1.806	116.3E6	84020572	203.181M3	205.054M3
	Sum 1221-2			193.4E6	143.7E6	603.521	607.434
Average	1221-2					201.174	202.478
18) l4	1254-1	2.307	2.648	178.5E6	127.6E6	217.391	228.228
19) l4	1254-2	2.420	2.735	328.7E6	143.4E6	224.511	224.888
20) l4	1254-3	2.603	2.965	348.0E6	212.7E6	223.820M1	225.847
21) l4	1254-4	2.733	3.076	240.7E6	141.4E6	221.185	242.784
22) l4	1254-5	2.956	3.352	313.0E6	182.3E6	209.753	212.443
	Sum 1254-1			1408.9E6	807.4E6	1096.660	1134.191
Average	1254-1					219.332	226.838
24) l6	1242-1	0.000	0.000	0	0	N.D. d	N.D. d
25) l6	1242-2	0.000	0.000	0	0	N.D. d	N.D. d
26) l6	1242-3	0.000	0.000	0	0	N.D. d	N.D. d
27) l6	1242-4	0.000	0.000	0	0	N.D. d	N.D. d
28) l6	1242-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1242-1			0	0	N.D.	N.D.
Average	1242-1					0.000	0.000
29) l9	1268-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l9	1268-2	0.000	0.000	0	0	N.D. d	N.D. d
31) l9	1268-3	0.000	0.000	0	0	N.D. d	N.D. d
32) l9	1268-4	0.000	0.000	0	0	N.D. d	N.D. d
33) l9	1268-5	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\PCB\Pest2\2024\240506I\
Data File : P2240506i-16.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 06 May 2024 10:52 pm
Operator : pest2:rmp
Sample : cicv2154,42,,pp 11460
Misc : WG1918477,,ical
ALS Vial : 16 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 07 16:42:20 2024
Quant Method : I:\PCB\Pest2\2024\240506I\P2_pcb_05_06_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Tue May 07 16:37:24 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Sum	1268-1			0	0	N.D.	N.D.
Average	1268-1					0.000	0.000
35) l7	1248-1	0.000	0.000	0	0	N.D. d	N.D. d
36) l7	1248-2	0.000	0.000	0	0	N.D. d	N.D. d
37) l7	1248-3	0.000	0.000	0	0	N.D. d	N.D. d
38) l7	1248-4	0.000	0.000	0	0	N.D. d	N.D. d
39) l7	1248-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1248-1			0	0	N.D.	N.D.
Average	1248-1					0.000	0.000
41) l5	1232-1	0.000	0.000	0	0	N.D. d	N.D. d
42) l5	1232-2	0.000	0.000	0	0	N.D. d	N.D. d
43) l5	1232-3	0.000	0.000	0	0	N.D. d	N.D. d
44) l5	1232-4	0.000	0.000	0	0	N.D. d	N.D. d
45) l5	1232-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1232-1			0	0	N.D.	N.D.
Average	1232-1					0.000	0.000
46) l8	1262-1	0.000	0.000	0	0	N.D. d	N.D. d
47) l8	1262-2	0.000	0.000	0	0	N.D. d	N.D. d
48) l8	1262-3	0.000	0.000	0	0	N.D. d	N.D. d
49) l8	1262-4	0.000	0.000	0	0	N.D. d	N.D. d
50) l8	1262-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1262-1			0	0	N.D.	N.D.
Average	1262-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	1262-1			0	0	N.D.	N.D.
Average	1262-1					0.000	0.000

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240506I\
Data File : P2240506i-16.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 06 May 2024 10:52 pm
Operator : pest2:rmp
Sample : cicv2154,42,,pp 11460
Misc : WG1918477,,ical
ALS Vial : 16 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 07 16:42:20 2024
Quant Method : I:\PCB\Pest2\2024\240506I\P2_pcb_05_06_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Tue May 07 16:37:24 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l

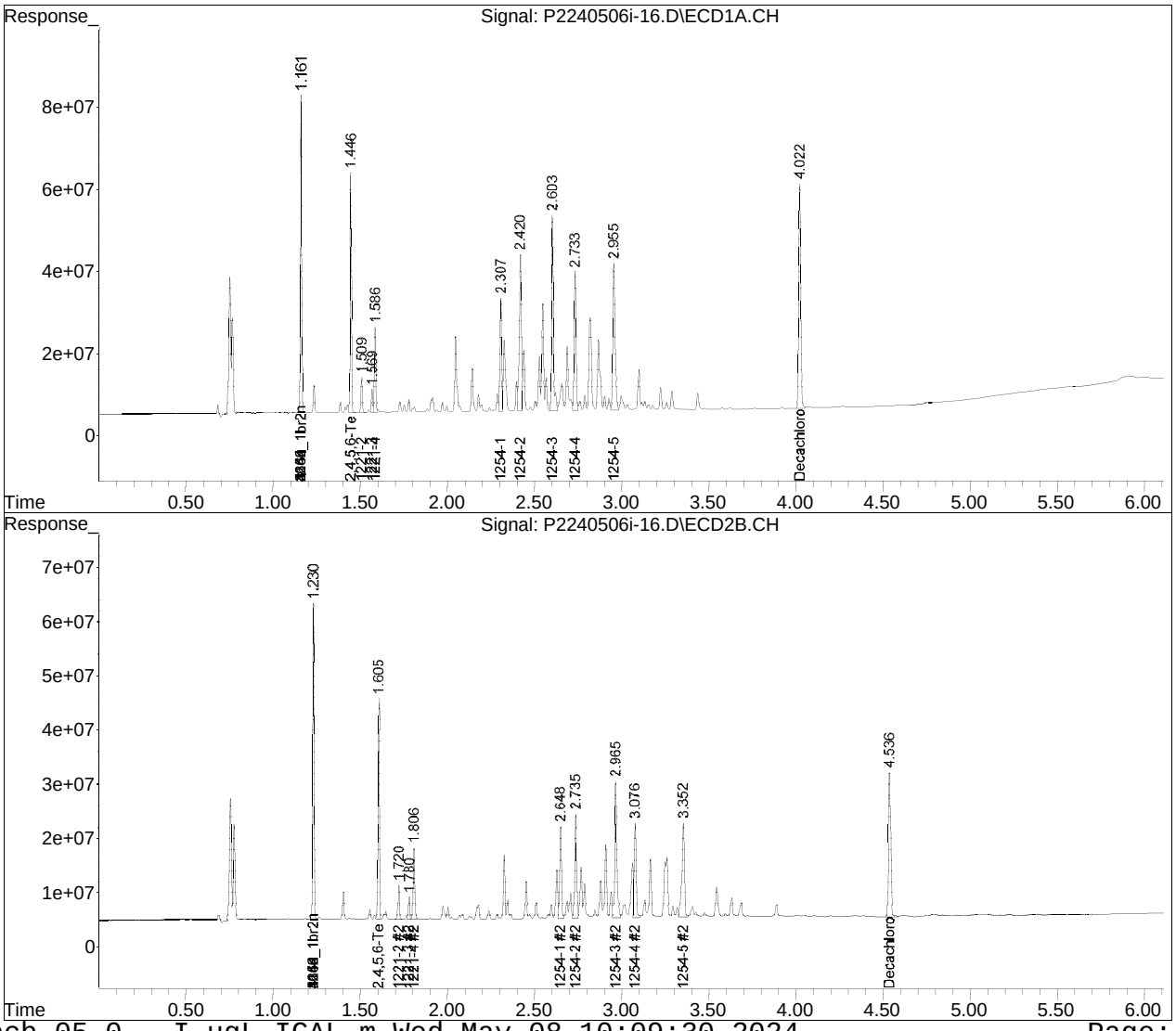
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PCB\Pest2\2024\240506I\
Data File : P2240506i-16.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 06 May 2024 10:52 pm
Operator : pest2:rmp
Sample : cicv2154,42,,pp 11460
Misc : WG1918477,,ical
ALS Vial : 16 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 07 16:42:20 2024
Quant Method : I:\PCB\Pest2\2024\240506I\P2_pcb_05_06_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Tue May 07 16:37:24 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

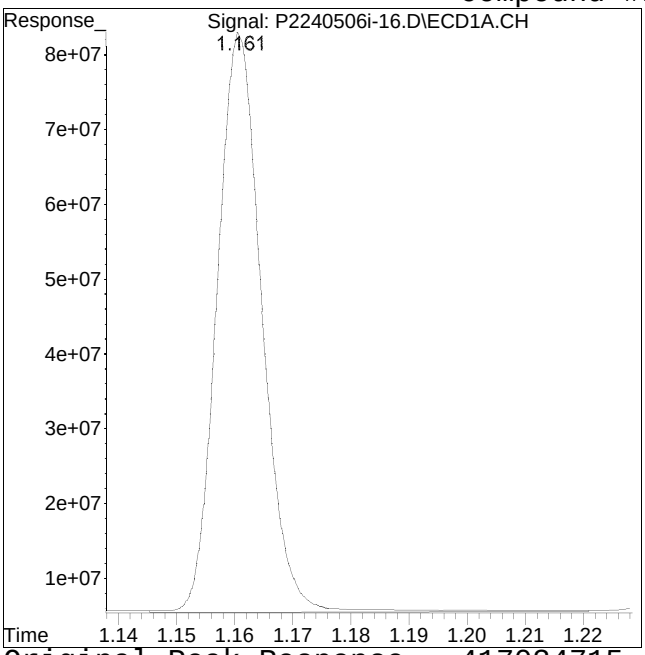
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

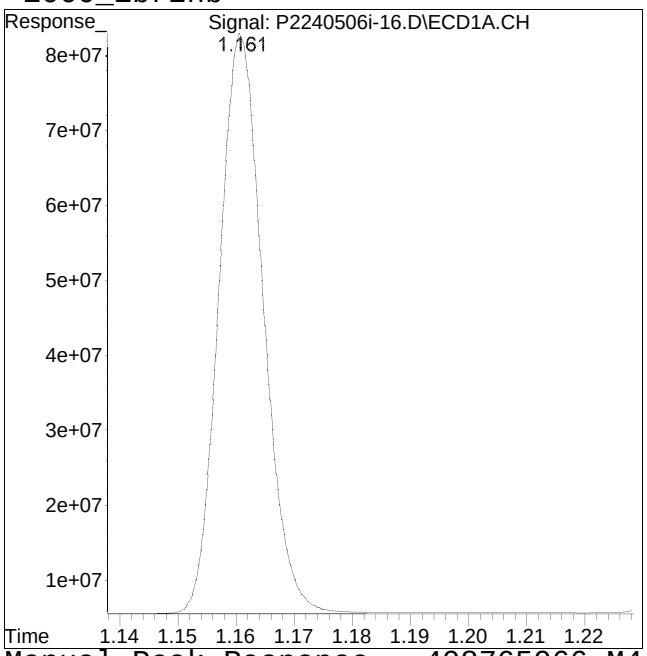


Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-16.D Operator : pest2:rmp
Date Inj'd : 5/6/2024 10:52 pm Instrument : Pest 2
Sample : cicv2154,42,,pp 11460 Quant Date : 5/7/2024 4:42 pm

Compound #1: 1660_1br2nb



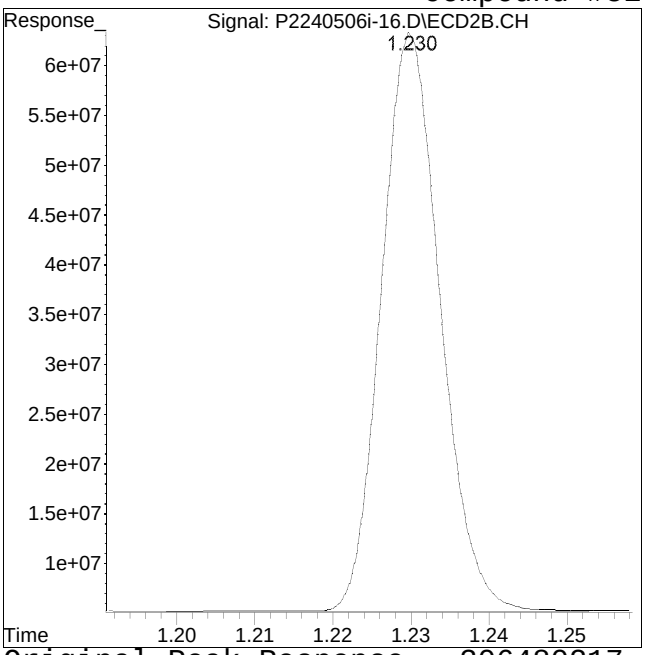


Original Peak Response = 417034715 Manual Peak Response = 408765066 M4
M4 = Poor automated baseline construction.

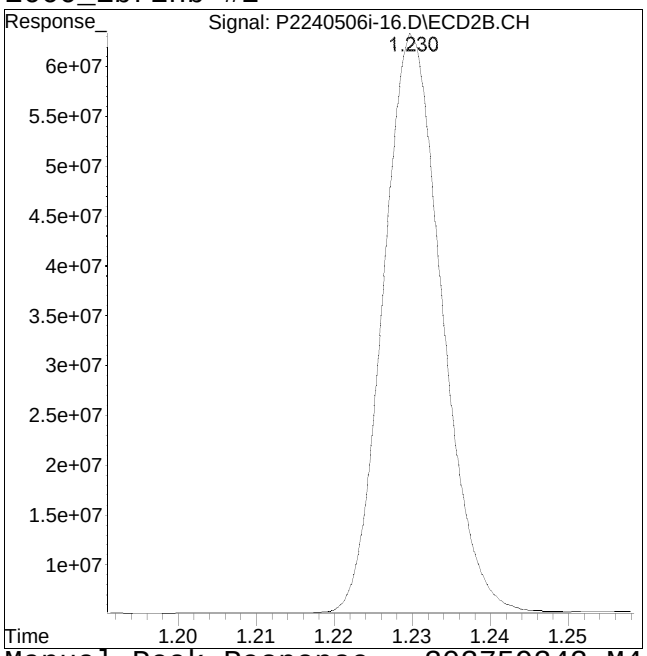
Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-16.D Operator : pest2:rmp
Date Inj'd : 5/6/2024 10:52 pm Instrument : Pest 2
Sample : cicv2154,42,,pp 11460 Quant Date : 5/7/2024 4:42 pm

Compound #52: 1660_1br2nb #2



Original Peak Response = 306480217



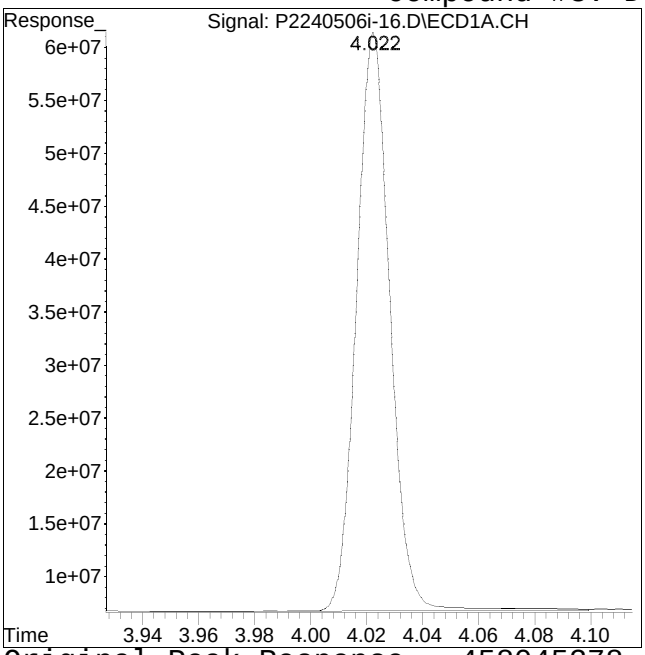
Manual Peak Response = 303759342 M4

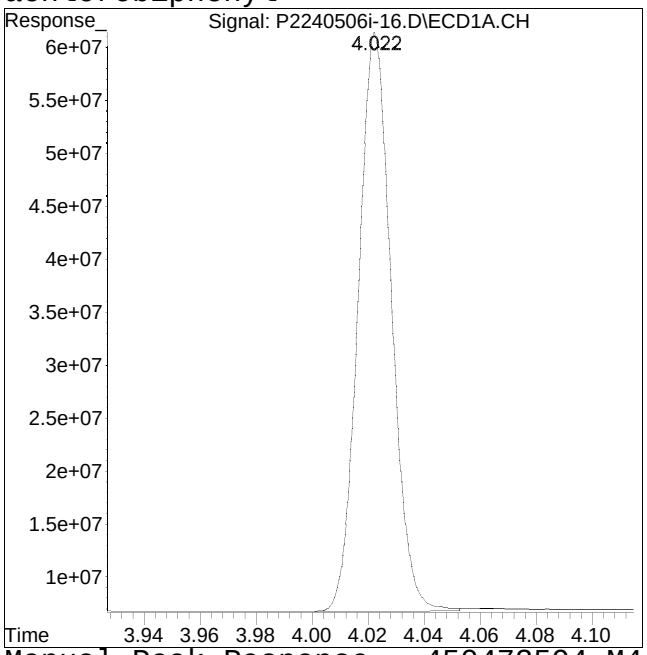
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-16.D Operator : pest2:rmp
Date Inj'd : 5/6/2024 10:52 pm Instrument : Pest 2
Sample : cicv2154,42,,pp 11460 Quant Date : 5/7/2024 4:42 pm

Compound #3: Decachlorobiphenyl



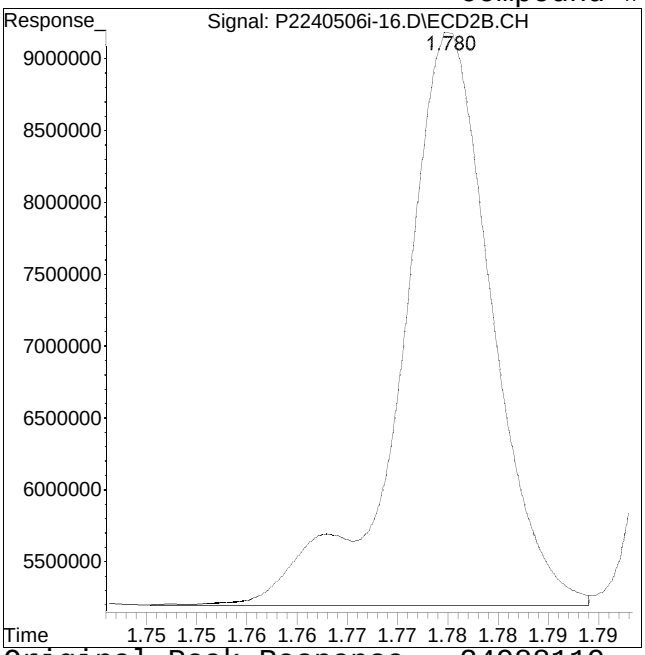


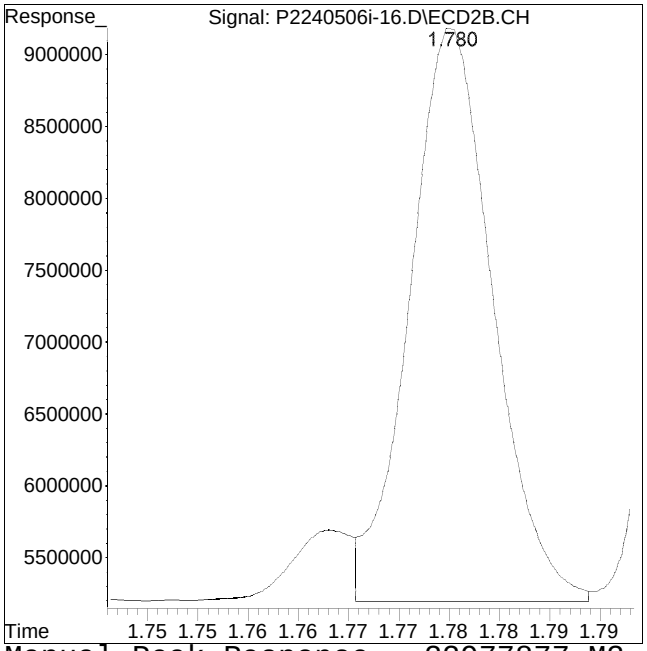
Original Peak Response = 458045378 Manual Peak Response = 450473594 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-16.D Operator : pest2:rmp
Date Inj'd : 5/6/2024 10:52 pm Instrument : Pest 2
Sample : cicv2154,42,,pp 11460 Quant Date : 5/7/2024 4:42 pm

Compound #67: 1221-3 #2



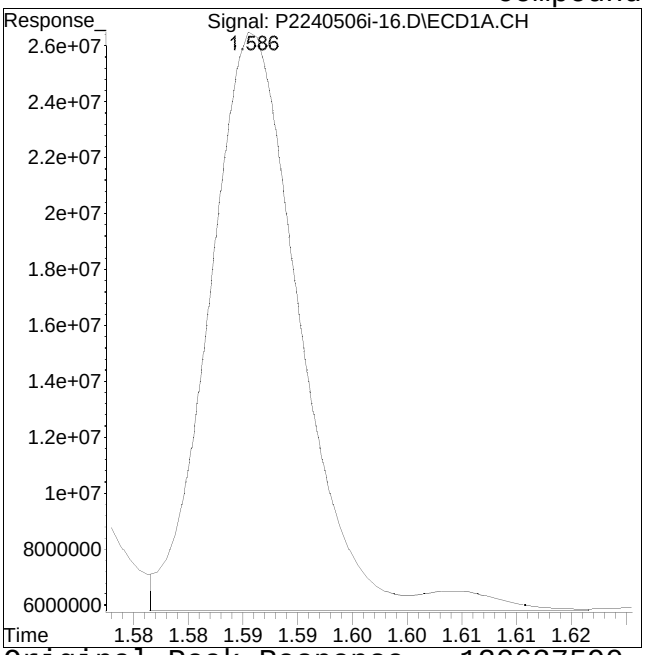


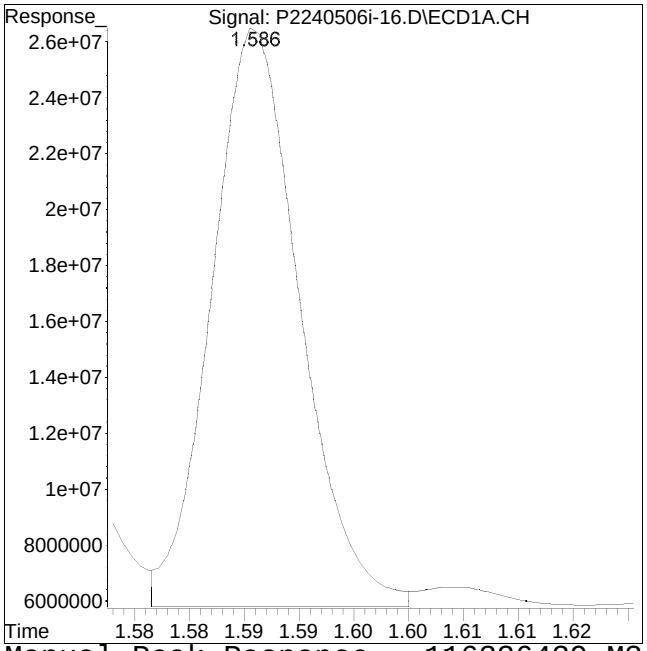
Original Peak Response = 24988119 Manual Peak Response = 22977877 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-16.D Operator : pest2:rmp
Date Inj'd : 5/6/2024 10:52 pm Instrument : Pest 2
Sample : cicv2154,42,,pp 11460 Quant Date : 5/7/2024 4:42 pm

Compound #17: 1221-4



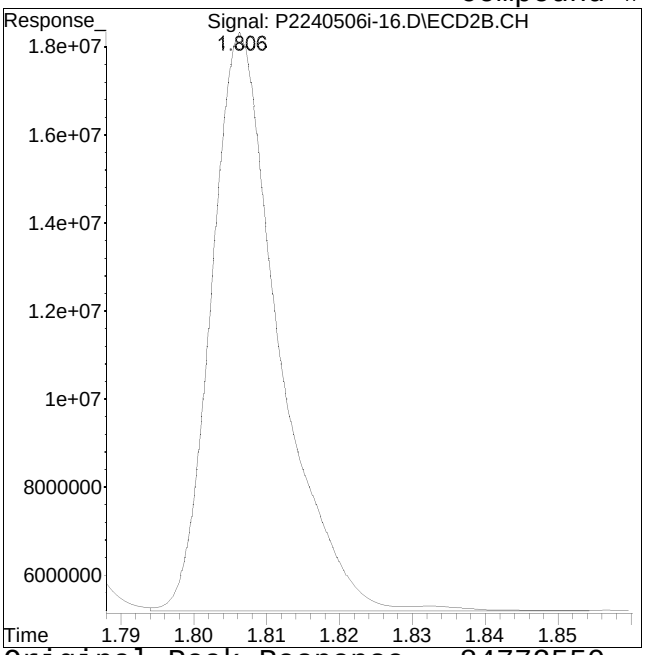


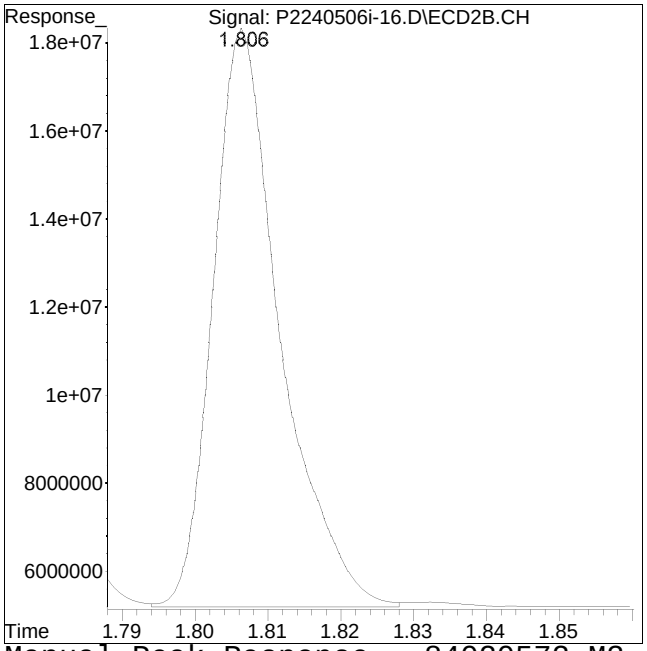
Original Peak Response = 120637590 Manual Peak Response = 116336439 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-16.D Operator : pest2:rmp
Date Inj'd : 5/6/2024 10:52 pm Instrument : Pest 2
Sample : cicv2154,42,,pp 11460 Quant Date : 5/7/2024 4:42 pm

Compound #68: 1221-4 #2



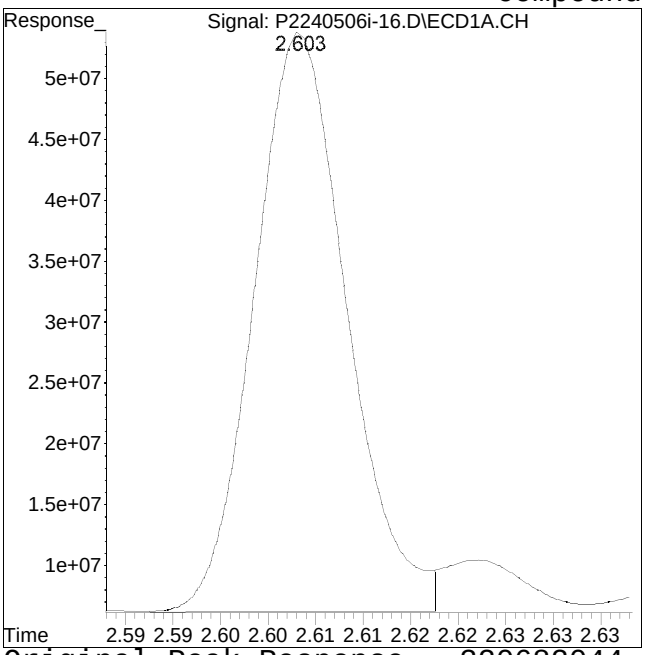


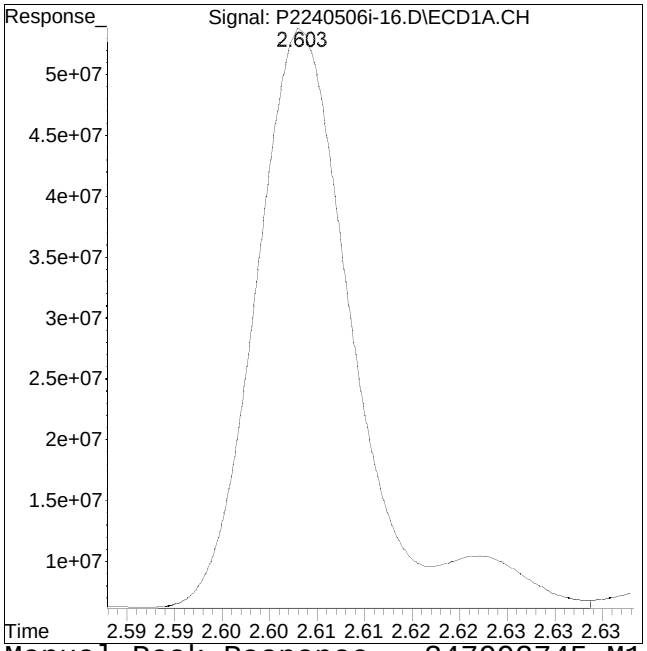
Original Peak Response = 84772550 Manual Peak Response = 84020572 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-16.D Operator : pest2:rmp
Date Inj'd : 5/6/2024 10:52 pm Instrument : Pest 2
Sample : cicv2154,42,,pp 11460 Quant Date : 5/7/2024 4:42 pm

Compound #20: 1254-3





Original Peak Response = 320682044 Manual Peak Response = 347993745 M1
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240506I\
Data File : P2240506i-19.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 07 May 2024 3:31 pm
Operator : pest2:rmp
Sample : il11660,42e,,pp 11447
Misc : WG1918477,,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 19 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 07 15:46:35 2024
Quant Method : I:\PCB\Pest2\2024\240506I\P2_pcb_05_06_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Tue May 07 15:45:14 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1660_1br2nb	1.158	1.225	441.4E6	313.8E6	25.000	25.000M4
14) i	2154_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
23) i	4268_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
34) i	1248_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
40) i	3262_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	1.444	1.601	11388483	8343622	0.492	0.535
	Spiked Amount 20.000	Range 30 - 150		Recovery =		2.46%#	2.68%#
3) s	Decachlorobi	4.023	4.533	16750063	8510498	0.419M4	1.148M4
	Spiked Amount 20.000	Range 30 - 150		Recovery =		2.10%#	5.74%#
	Target Compounds						
4) l1	1016-1	1.584	1.803	3450981	2331136	8.405M4	8.707M5
5) l1	1016-2	1.726	1.975	6769076	5116199	7.846M4	8.669M4
6) l1	1016-3	1.916	2.176	13963884	10750016	7.759M4	9.175M4
7) l1	1016-4	1.971	2.236	5637064	3338891	7.770M3	7.351M4
8) l1	1016-5	2.142	2.447	6947810	3199324	8.725M4	8.197M4
	Sum 1016-1			36768814	24735565	40.505	42.098
	Average 1016-1					8.101	8.420
9) l2	1260-1	2.687	3.058	10067369	9159323	8.631M4	13.100M4
10) l2	1260-2	2.817	3.159	14349523	8268142	0.538M4	9.726M4

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240506I\
Data File : P2240506i-19.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 07 May 2024 3:31 pm
Operator : pest2:rmp
Sample : il11660,42e,,pp 11447
Misc : WG1918477,,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 19 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 07 15:46:35 2024
Quant Method : I:\PCB\Pest2\2024\240506I\P2_pcb_05_06_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Tue May 07 15:45:14 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
11) l2	1260-3	3.134	3.553	8892637	5160934	8.062M4	7.483M4
12) l2	1260-4	3.290	3.682	18580326	10937126	1.300M3	8.930M4
13) l2	1260-5	3.438	3.884	13302799	6780440	1.855M4	7.906M3
Sum	1260-1			65192654	40305965	N.D.	N.D. D
Average	1260-1					4.077	9.429 D
15) l3	1221-2	0.000	0.000	0	0	N.D. d	N.D. d
16) l3	1221-3	0.000	0.000	0	0	N.D. d	N.D. d
17) l3	1221-4	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1221-2			0	0	N.D.	N.D.
Average	1221-2					0.000	0.000
18) l4	1254-1	0.000	0.000	0	0	N.D. d	N.D. d
19) l4	1254-2	0.000	0.000	0	0	N.D. d	N.D. d
20) l4	1254-3	0.000	0.000	0	0	N.D. d	N.D. d
21) l4	1254-4	0.000	0.000	0	0	N.D. d	N.D. d
22) l4	1254-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1254-1			0	0	N.D.	N.D.
Average	1254-1					0.000	0.000
24) l6	1242-1	0.000	0.000	0	0	N.D. d	N.D. d
25) l6	1242-2	0.000	0.000	0	0	N.D. d	N.D. d
26) l6	1242-3	0.000	0.000	0	0	N.D. d	N.D. d
27) l6	1242-4	0.000	0.000	0	0	N.D. d	N.D. d
28) l6	1242-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1242-1			0	0	N.D.	N.D.
Average	1242-1					0.000	0.000
29) l9	1268-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l9	1268-2	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240506I\
Data File : P2240506i-19.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 07 May 2024 3:31 pm
Operator : pest2:rmp
Sample : il11660,42e,,pp 11447
Misc : WG1918477,,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 19 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 07 15:46:35 2024
Quant Method : I:\PCB\Pest2\2024\240506I\P2_pcb_05_06_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Tue May 07 15:45:14 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
31) l9	1268-3	0.000	0.000	0	0	N.D. d	N.D. d
32) l9	1268-4	0.000	0.000	0	0	N.D. d	N.D. d
33) l9	1268-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1268-1			0	0	N.D.	N.D.
Average	1268-1					0.000	0.000
35) l7	1248-1	0.000	0.000	0	0	N.D. d	N.D. d
36) l7	1248-2	0.000	0.000	0	0	N.D. d	N.D. d
37) l7	1248-3	0.000	0.000	0	0	N.D. d	N.D. d
38) l7	1248-4	0.000	0.000	0	0	N.D. d	N.D. d
39) l7	1248-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1248-1			0	0	N.D.	N.D.
Average	1248-1					0.000	0.000
41) l5	1232-1	0.000	0.000	0	0	N.D. d	N.D. d
42) l5	1232-2	0.000	0.000	0	0	N.D. d	N.D. d
43) l5	1232-3	0.000	0.000	0	0	N.D. d	N.D. d
44) l5	1232-4	0.000	0.000	0	0	N.D. d	N.D. d
45) l5	1232-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1232-1			0	0	N.D.	N.D.
Average	1232-1					0.000	0.000
46) l8	1262-1	0.000	0.000	0	0	N.D. d	N.D. d
47) l8	1262-2	0.000	0.000	0	0	N.D. d	N.D. d
48) l8	1262-3	0.000	0.000	0	0	N.D. d	N.D. d
49) l8	1262-4	0.000	0.000	0	0	N.D. d	N.D. d
50) l8	1262-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1262-1			0	0	N.D.	N.D.
Average	1262-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	1262-1			0	0	N.D.	N.D.

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240506I\
Data File : P2240506i-19.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 07 May 2024 3:31 pm
Operator : pest2:rmp
Sample : il11660,42e,,pp 11447
Misc : WG1918477,,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 19 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 07 15:46:35 2024
Quant Method : I:\PCB\Pest2\2024\240506I\P2_pcb_05_06_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Tue May 07 15:45:14 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Average 1262-1					0.000	0.000

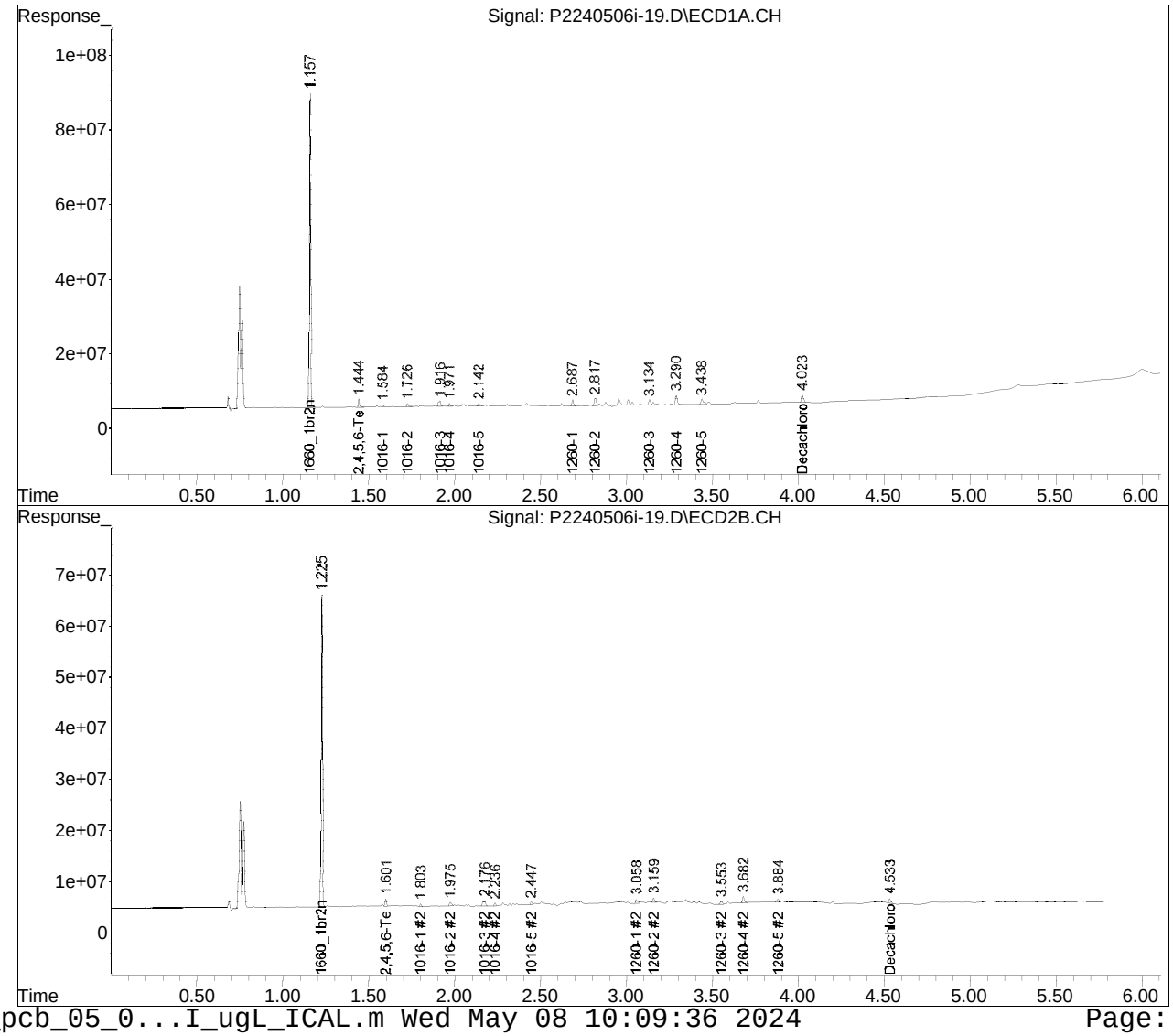
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PCB\Pest2\2024\240506I\
Data File : P2240506i-19.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 07 May 2024 3:31 pm
Operator : pest2:rmp
Sample : il11660,42e,,pp 11447
Misc : WG1918477,,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 19 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 07 15:46:35 2024
Quant Method : I:\PCB\Pest2\2024\240506I\P2_pcb_05_06_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Tue May 07 15:45:14 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

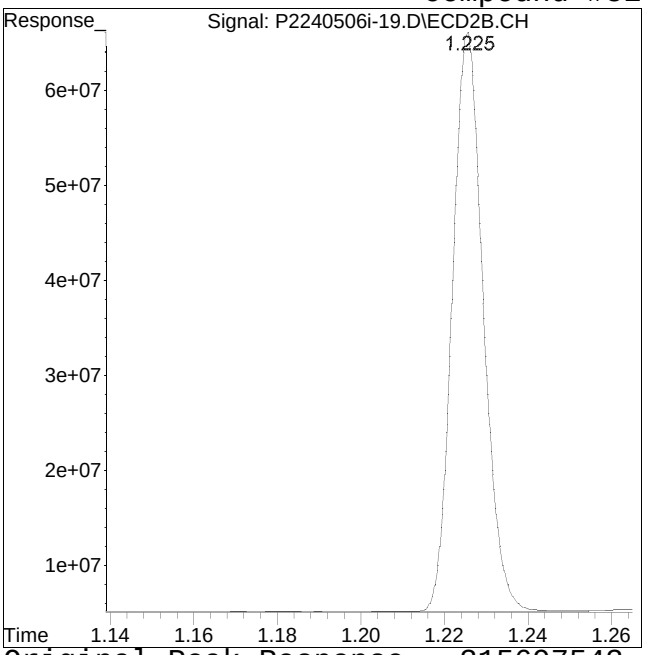
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

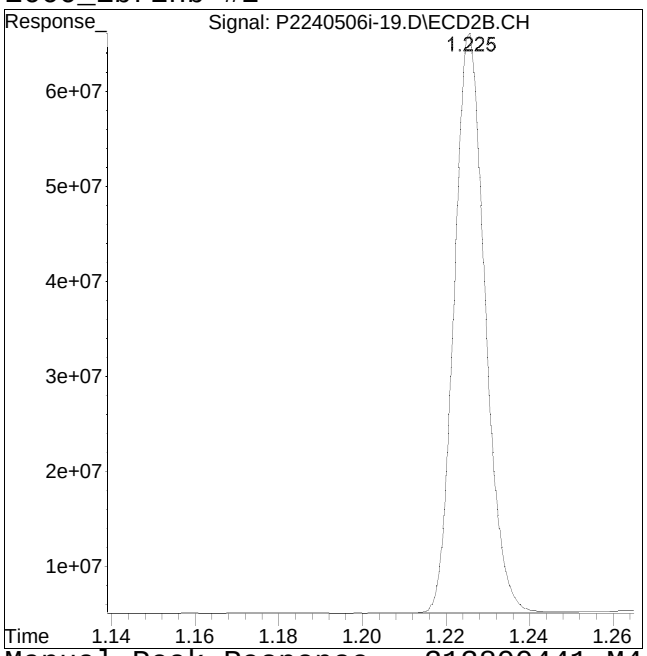


Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-19.D Operator : pest2:rmp
Date Inj'd : 5/7/2024 3:31 pm Instrument : Pest 2
Sample : il11660,42e,,pp 11447 Quant Date : 5/7/2024 3:46 pm

Compound #52: 1660_1br2nb #2



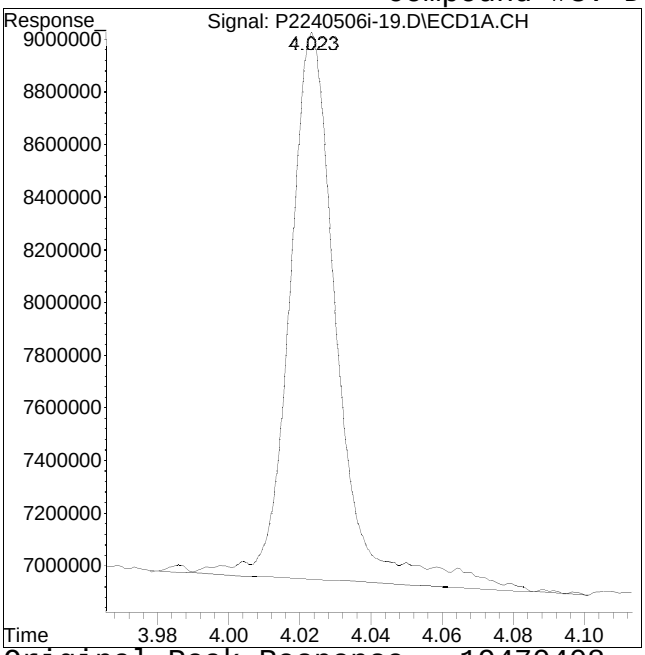


Original Peak Response = 315697543 Manual Peak Response = 313800441 M4
M4 = Poor automated baseline construction.

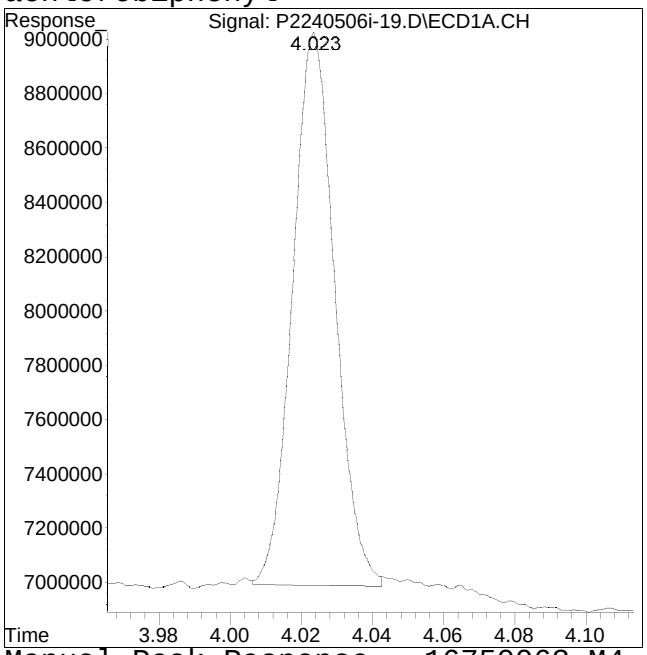
Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-19.D Operator : pest2:rmp
Date Inj'd : 5/7/2024 3:31 pm Instrument : Pest 2
Sample : il11660,42e,,pp 11447 Quant Date : 5/7/2024 3:46 pm

Compound #3: Decachlorobiphenyl



Original Peak Response = 19470408



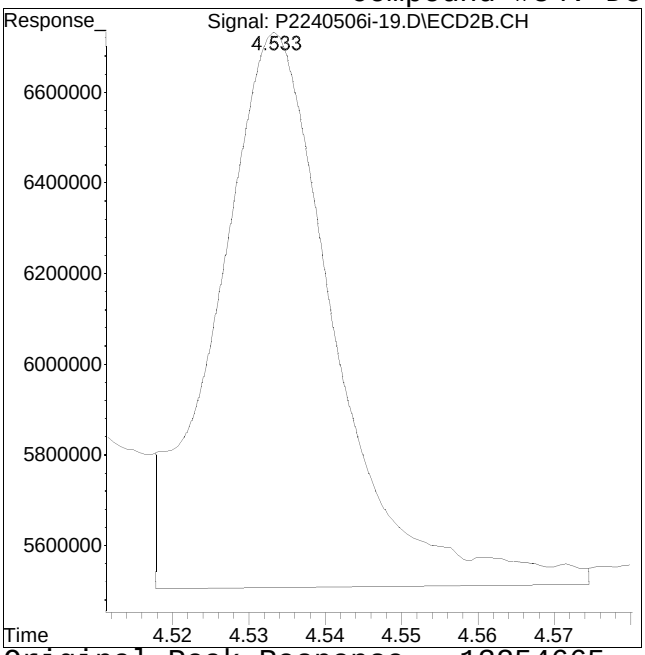
Manual Peak Response = 16750063 M4

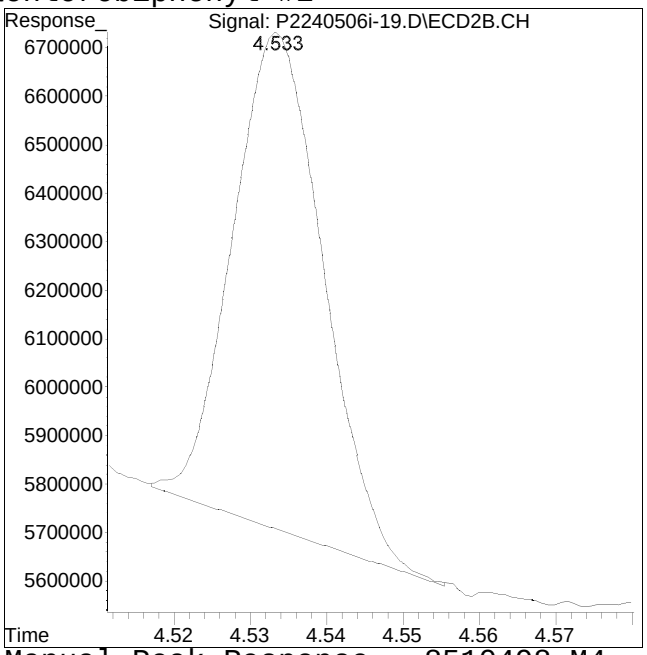
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-19.D Operator : pest2:rmp
Date Inj'd : 5/7/2024 3:31 pm Instrument : Pest 2
Sample : il11660,42e,,pp 11447 Quant Date : 5/7/2024 3:46 pm

Compound #54: Decachlorobiphenyl #2



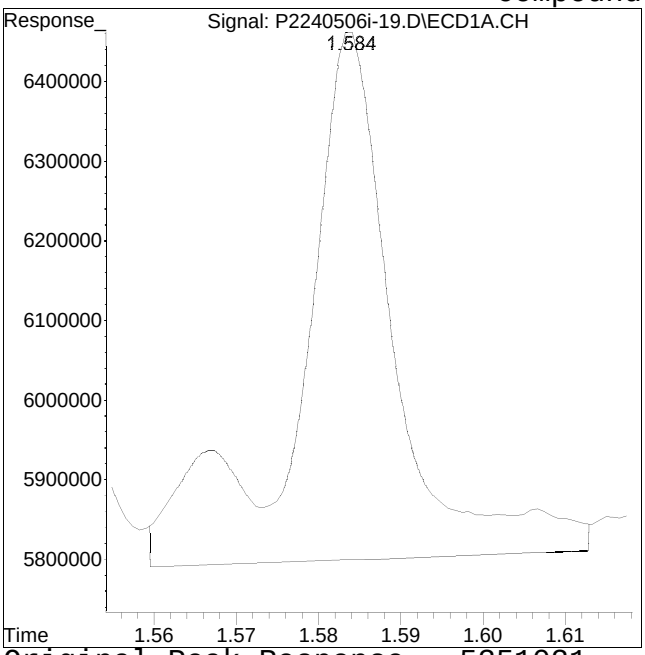


Original Peak Response = 13254665 Manual Peak Response = 8510498 M4
M4 = Poor automated baseline construction.

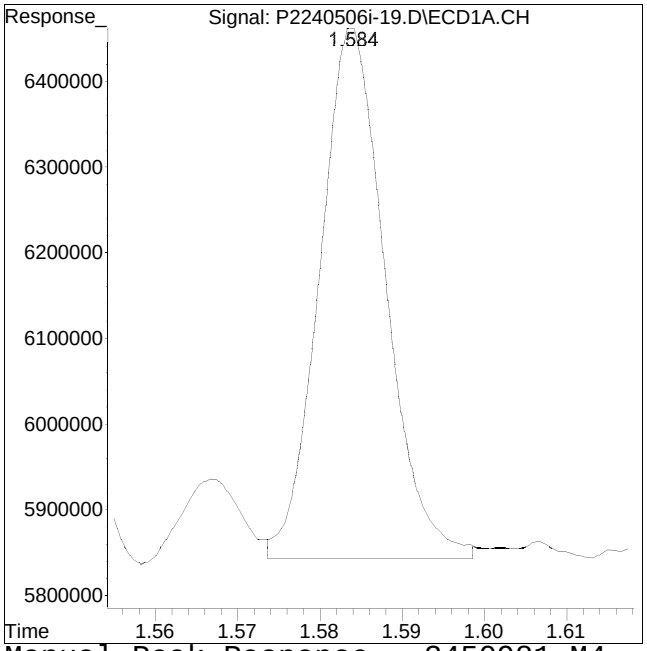
Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-19.D Operator : pest2:rmp
Date Inj'd : 5/7/2024 3:31 pm Instrument : Pest 2
Sample : il11660,42e,,pp 11447 Quant Date : 5/7/2024 3:46 pm

Compound #4: 1016-1



Original Peak Response = 5351021



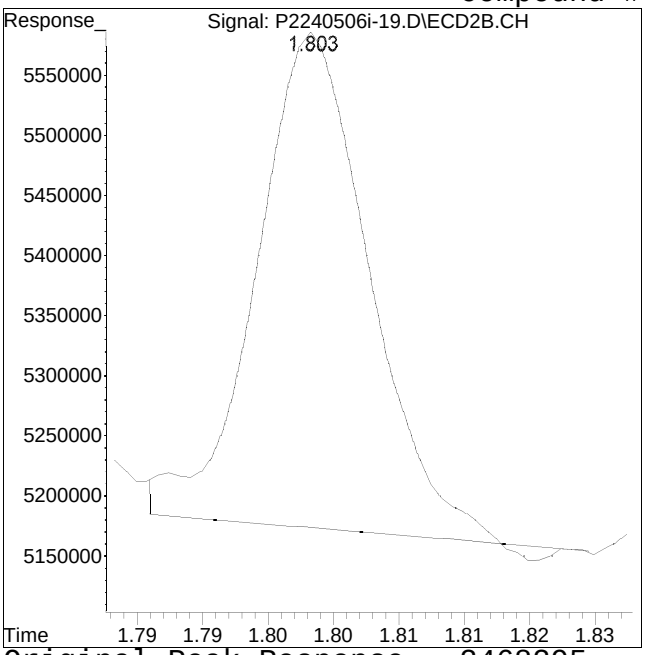
Manual Peak Response = 3450981 M4

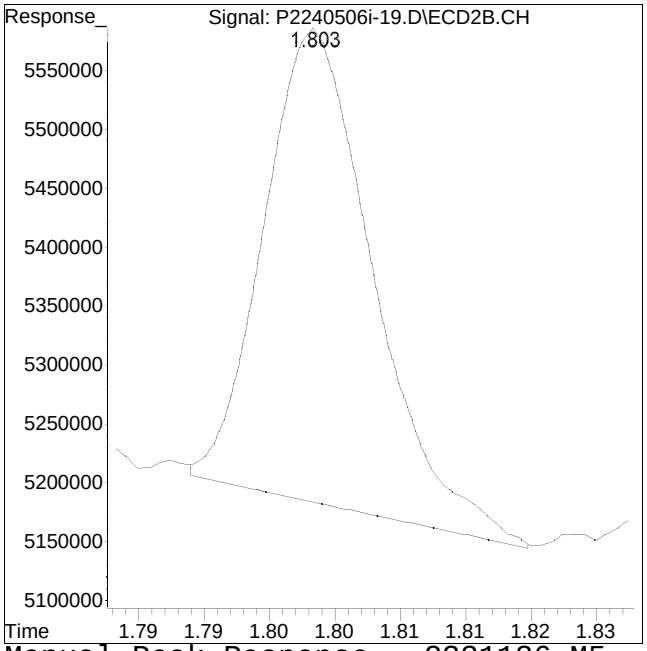
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-19.D Operator : pest2:rmp
Date Inj'd : 5/7/2024 3:31 pm Instrument : Pest 2
Sample : il11660,42e,,pp 11447 Quant Date : 5/7/2024 3:46 pm

Compound #55: 1016-1 #2



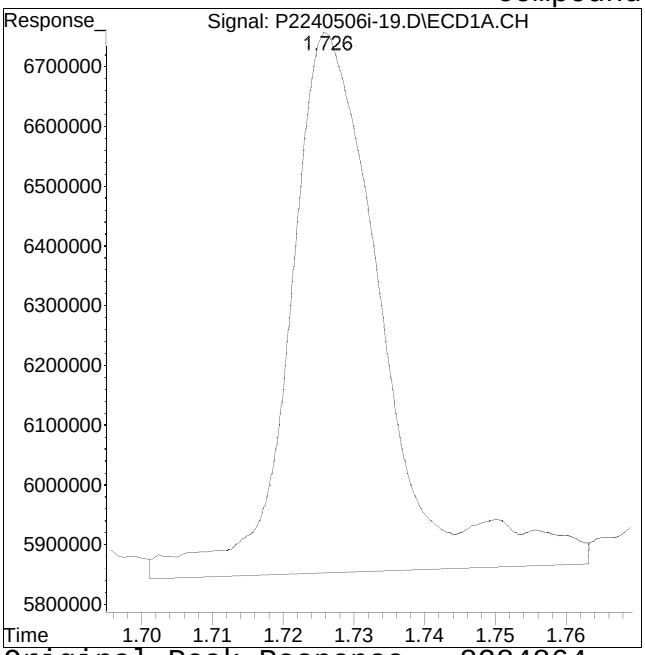


Original Peak Response = 2468295 Manual Peak Response = 2331136 M5
M5 = Manual integration over a retention time range required, i.e. for hydrocarbon range methods.

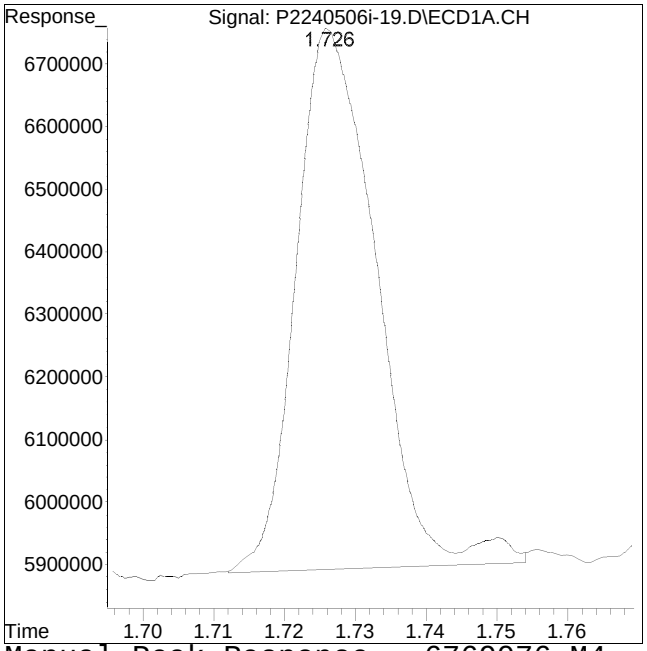
Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-19.D Operator : pest2:rmp
Date Inj'd : 5/7/2024 3:31 pm Instrument : Pest 2
Sample : il11660,42e,,pp 11447 Quant Date : 5/7/2024 3:46 pm

Compound #5: 1016-2



Original Peak Response = 8284864



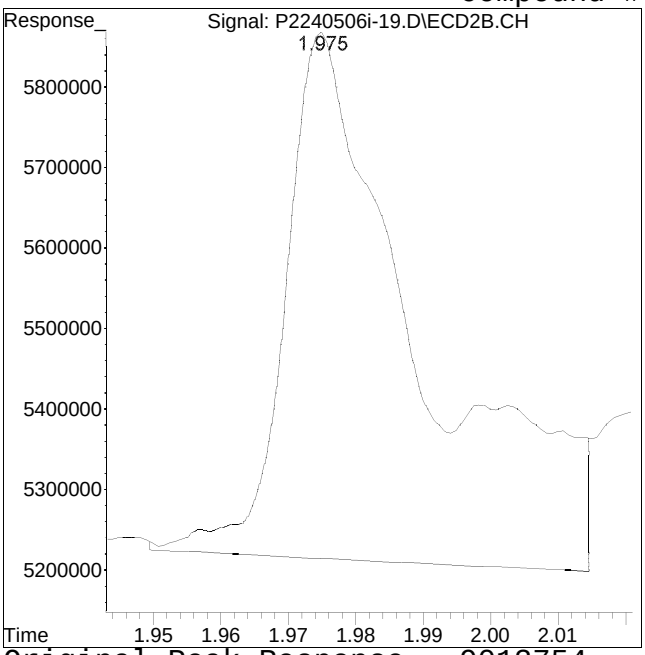
Manual Peak Response = 6769076 M4

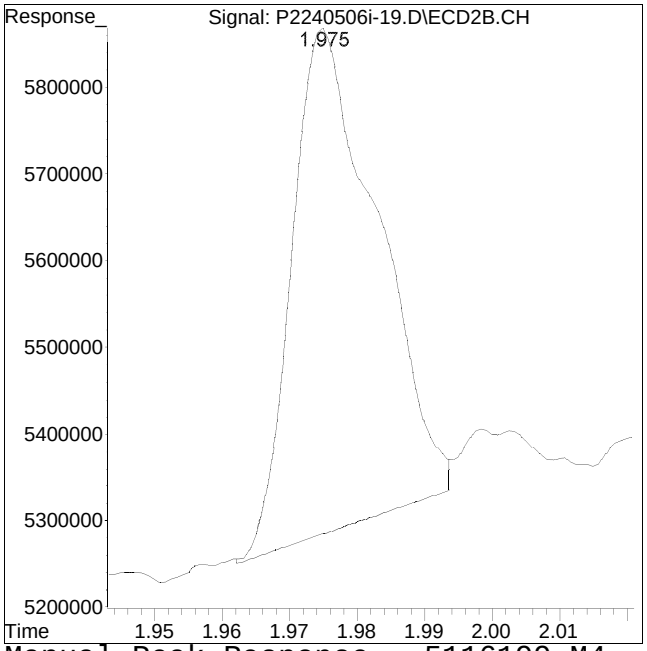
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-19.D Operator : pest2:rmp
Date Inj'd : 5/7/2024 3:31 pm Instrument : Pest 2
Sample : il11660,42e,,pp 11447 Quant Date : 5/7/2024 3:46 pm

Compound #56: 1016-2 #2



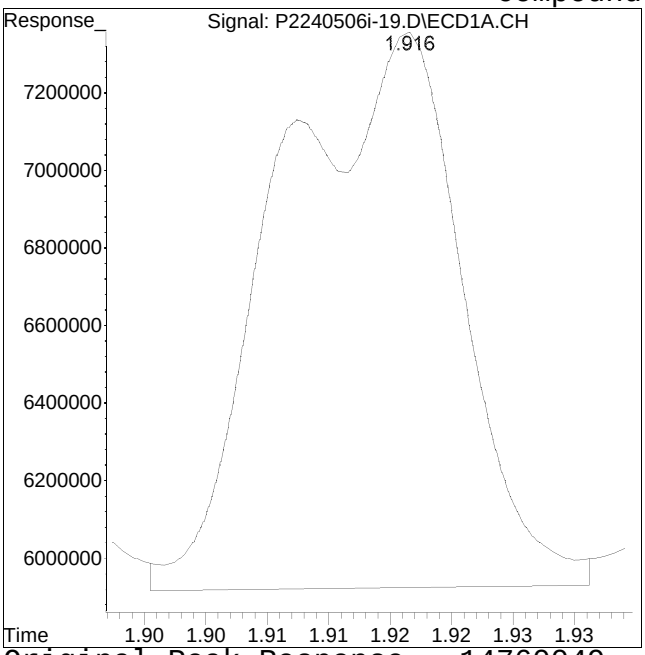


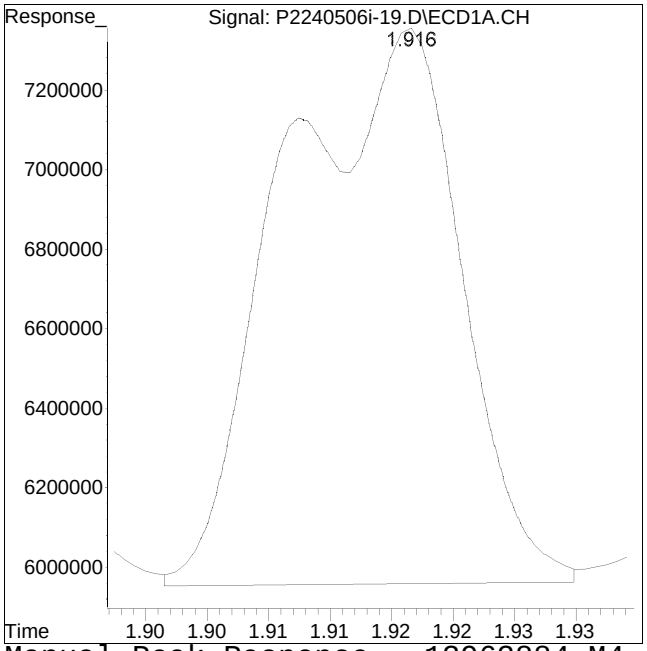
Original Peak Response = 9013754 Manual Peak Response = 5116199 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-19.D Operator : pest2:rmp
Date Inj'd : 5/7/2024 3:31 pm Instrument : Pest 2
Sample : il11660,42e,,pp 11447 Quant Date : 5/7/2024 3:46 pm

Compound #6: 1016-3



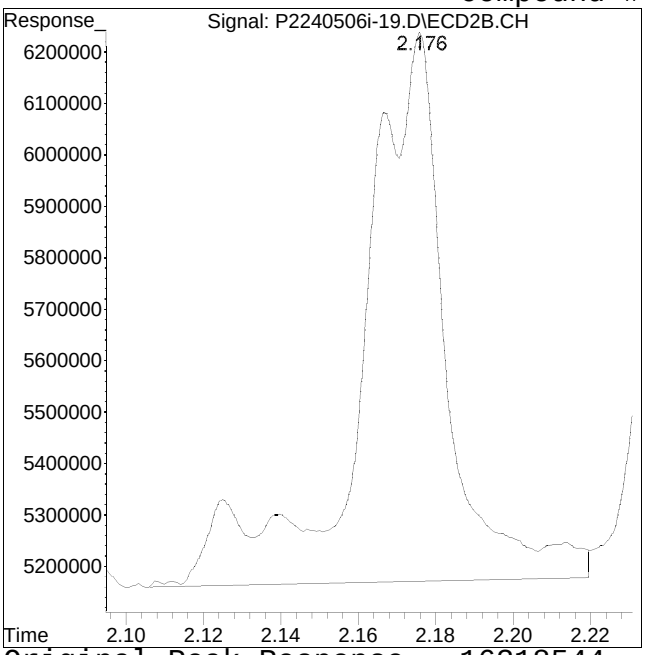


Original Peak Response = 14760049 Manual Peak Response = 13963884 M4
M4 = Poor automated baseline construction.

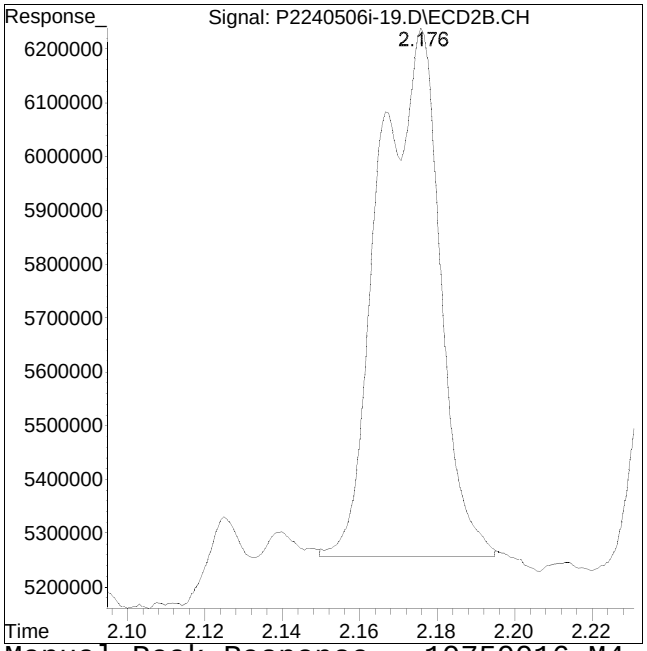
Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-19.D Operator : pest2:rmp
Date Inj'd : 5/7/2024 3:31 pm Instrument : Pest 2
Sample : il11660,42e,,pp 11447 Quant Date : 5/7/2024 3:46 pm

Compound #57: 1016-3 #2



Original Peak Response = 16318544



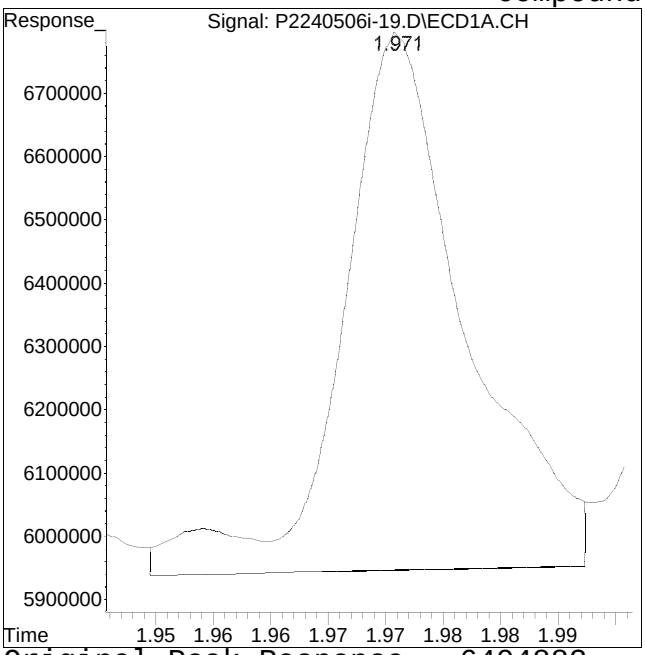
Manual Peak Response = 10750016 M4

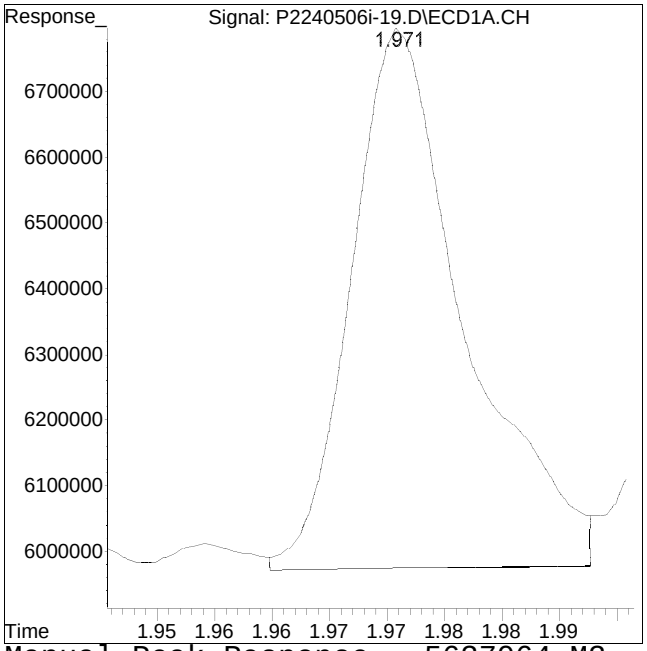
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-19.D Operator : pest2:rmp
Date Inj'd : 5/7/2024 3:31 pm Instrument : Pest 2
Sample : il11660,42e,,pp 11447 Quant Date : 5/7/2024 3:46 pm

Compound #7: 1016-4



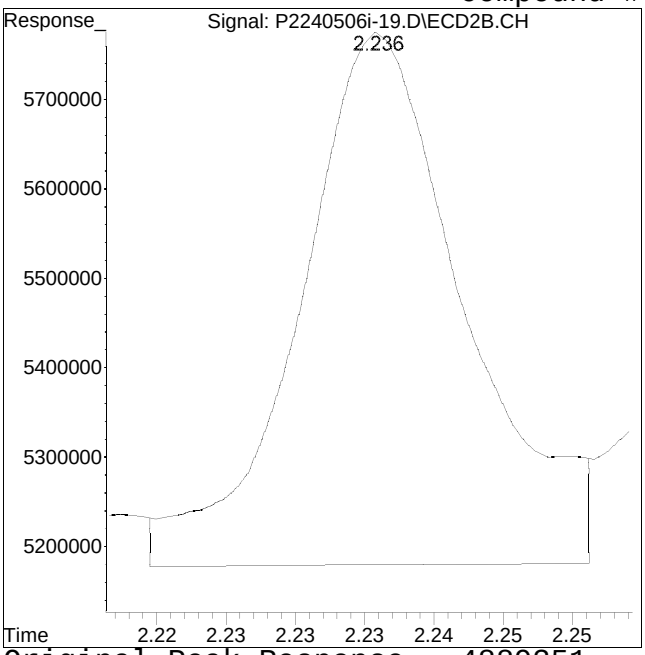


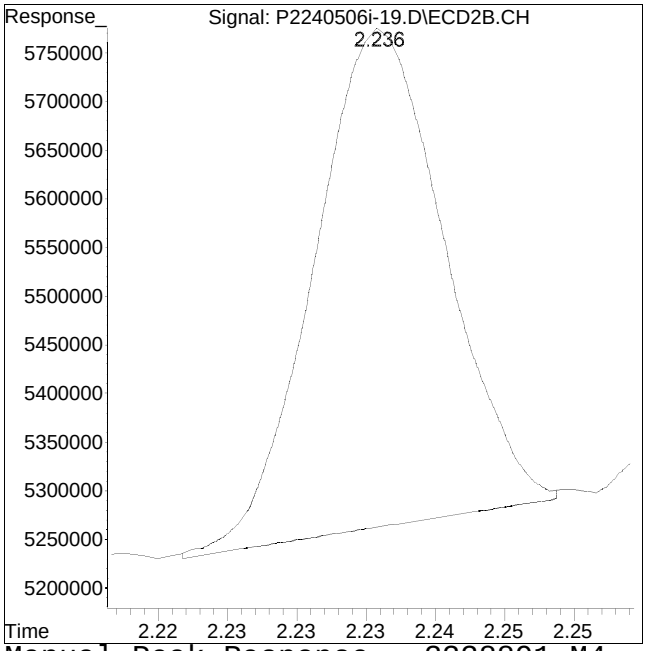
Original Peak Response = 6404883 Manual Peak Response = 5637064 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-19.D Operator : pest2:rmp
Date Inj'd : 5/7/2024 3:31 pm Instrument : Pest 2
Sample : il11660,42e,,pp 11447 Quant Date : 5/7/2024 3:46 pm

Compound #58: 1016-4 #2



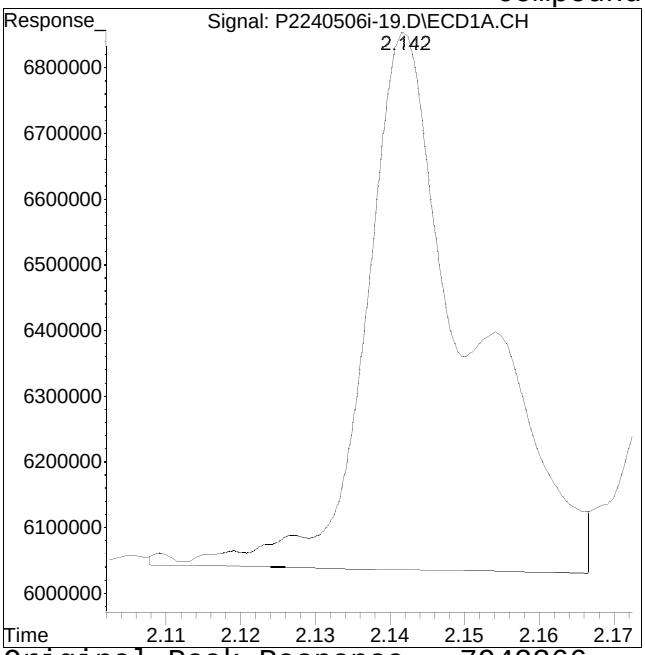


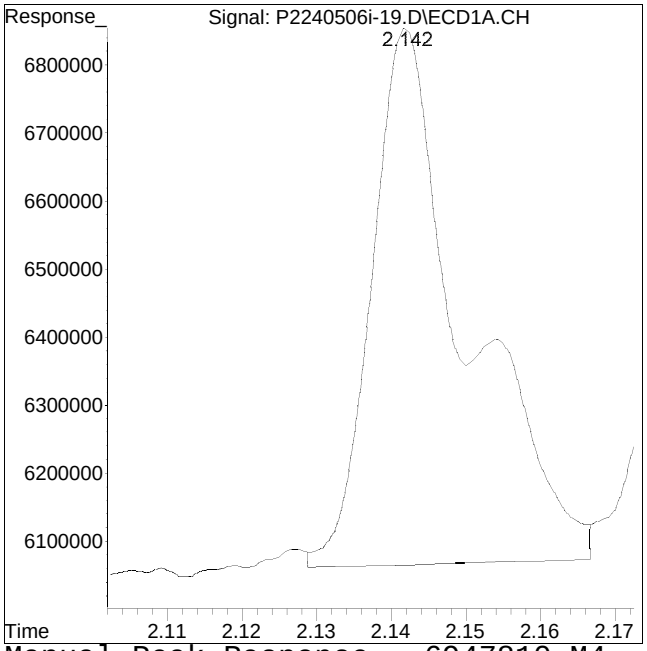
Original Peak Response = 4889351 Manual Peak Response = 3338891 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-19.D Operator : pest2:rmp
Date Inj'd : 5/7/2024 3:31 pm Instrument : Pest 2
Sample : il11660,42e,,pp 11447 Quant Date : 5/7/2024 3:46 pm

Compound #8: 1016-5



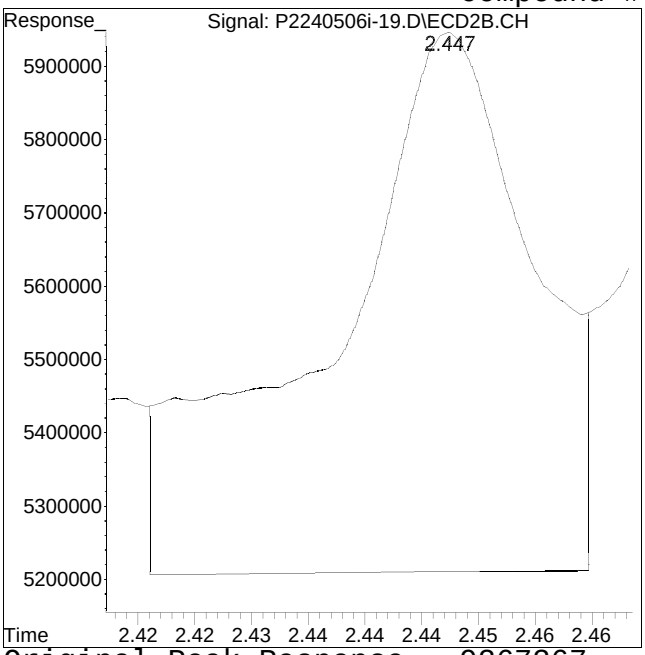


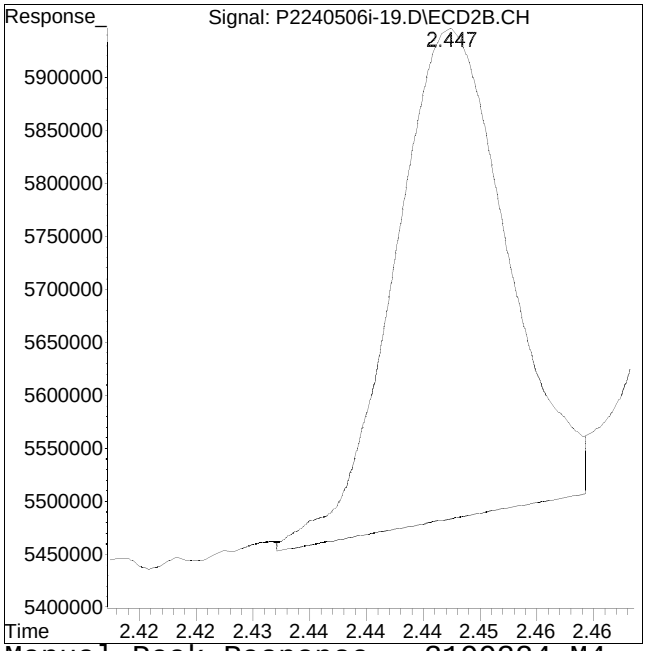
Original Peak Response = 7942366 Manual Peak Response = 6947810 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-19.D Operator : pest2:rmp
Date Inj'd : 5/7/2024 3:31 pm Instrument : Pest 2
Sample : il11660,42e,,pp 11447 Quant Date : 5/7/2024 3:46 pm

Compound #59: 1016-5 #2



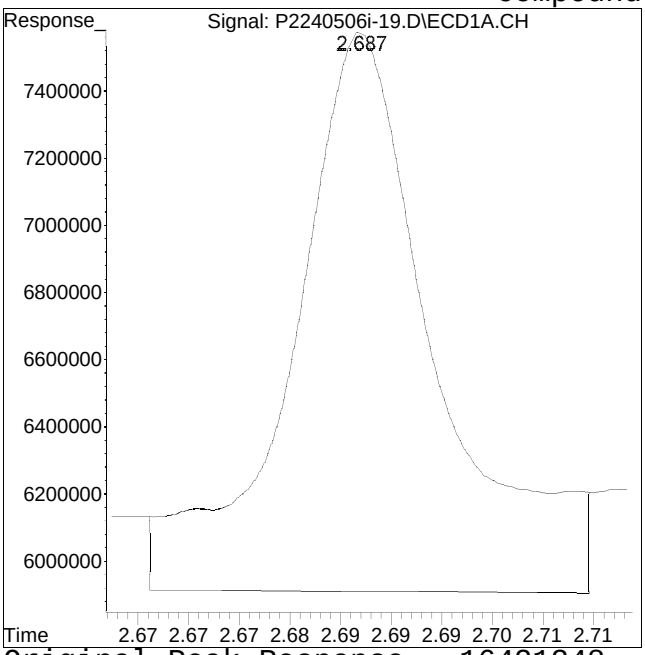


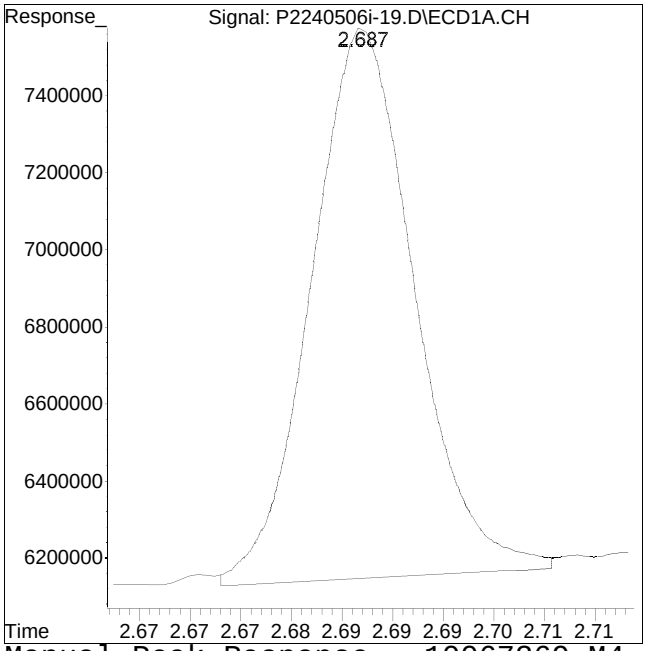
Original Peak Response = 9267367 Manual Peak Response = 3199324 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-19.D Operator : pest2:rmp
Date Inj'd : 5/7/2024 3:31 pm Instrument : Pest 2
Sample : il11660,42e,,pp 11447 Quant Date : 5/7/2024 3:46 pm

Compound #9: 1260-1



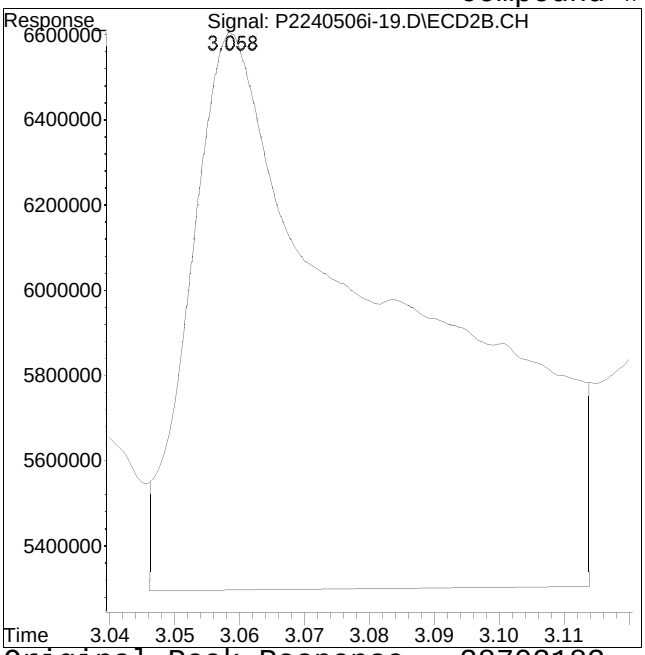


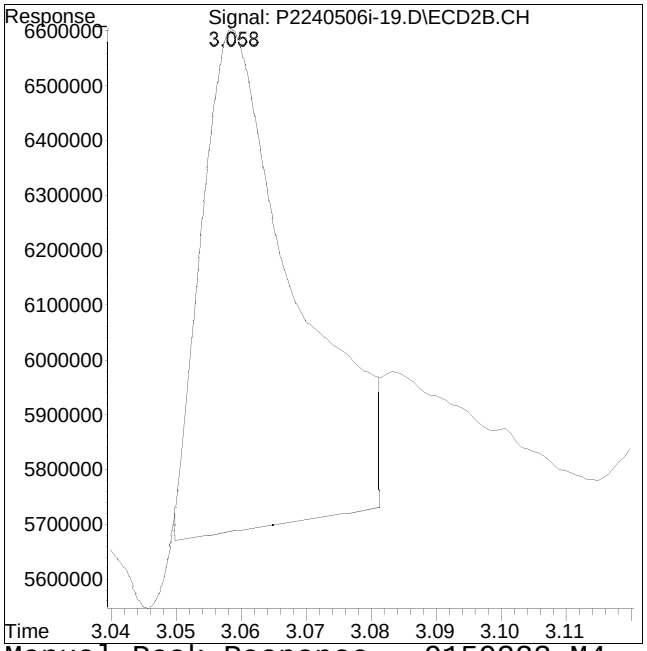
Original Peak Response = 16421248 Manual Peak Response = 10067369 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-19.D Operator : pest2:rmp
Date Inj'd : 5/7/2024 3:31 pm Instrument : Pest 2
Sample : il11660,42e,,pp 11447 Quant Date : 5/7/2024 3:46 pm

Compound #60: 1260-1 #2



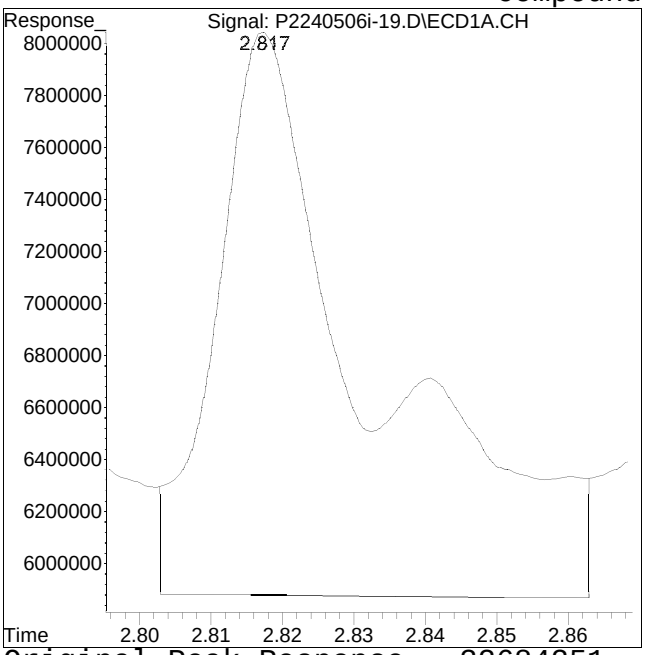


Original Peak Response = 28702183 Manual Peak Response = 9159323 M4
M4 = Poor automated baseline construction.

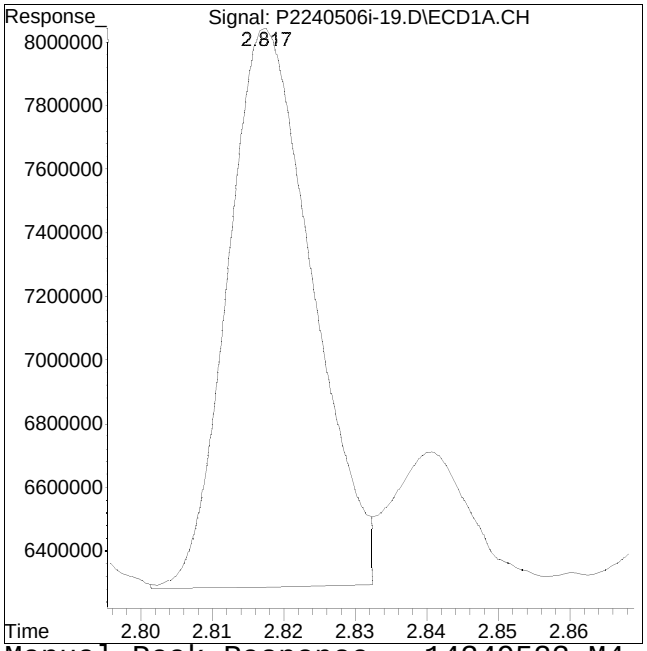
Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-19.D Operator : pest2:rmp
Date Inj'd : 5/7/2024 3:31 pm Instrument : Pest 2
Sample : il11660,42e,,pp 11447 Quant Date : 5/7/2024 3:46 pm

Compound #10: 1260-2



Original Peak Response = 32684251



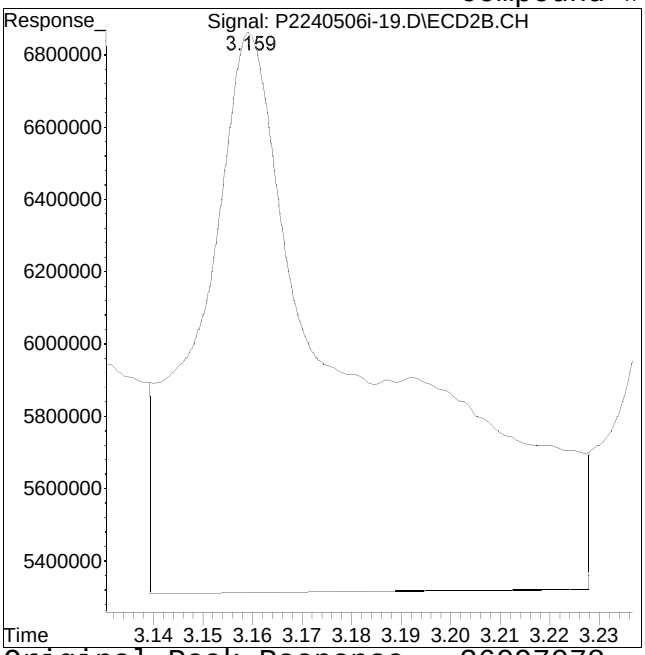
Manual Peak Response = 14349523 M4

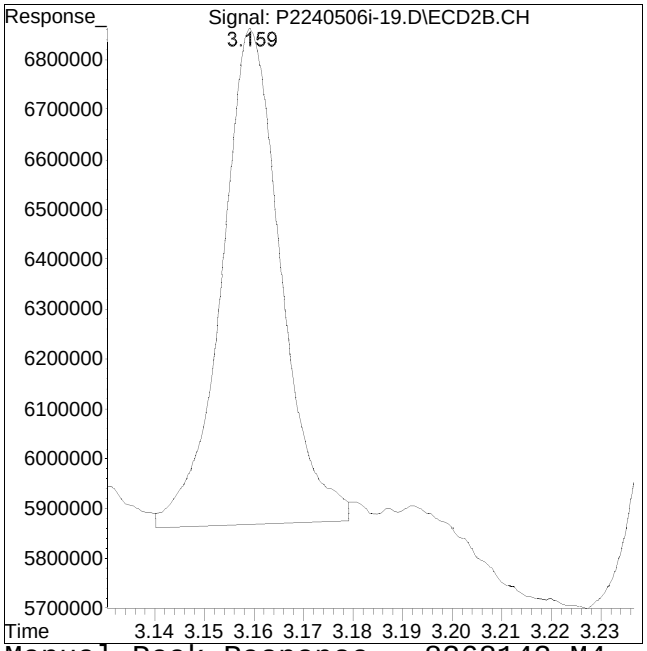
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-19.D Operator : pest2:rmp
Date Inj'd : 5/7/2024 3:31 pm Instrument : Pest 2
Sample : il11660,42e,,pp 11447 Quant Date : 5/7/2024 3:46 pm

Compound #61: 1260-2 #2



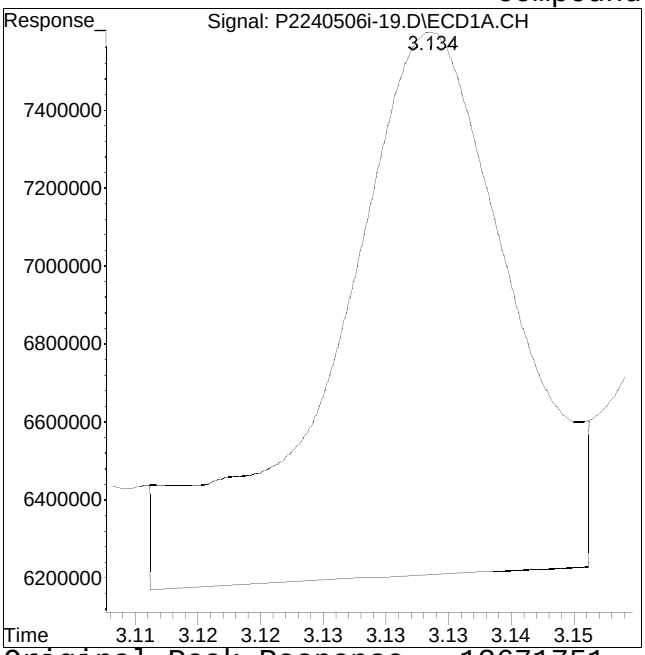


Original Peak Response = 36097078 Manual Peak Response = 8268142 M4
M4 = Poor automated baseline construction.

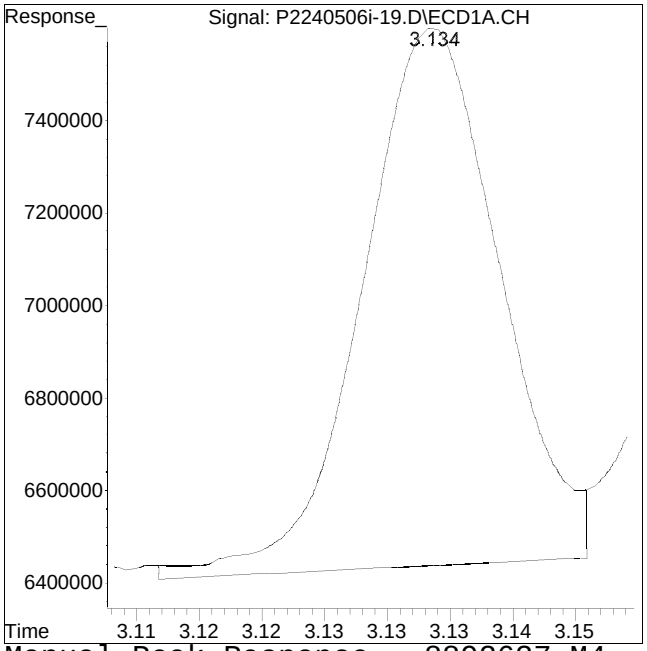
Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-19.D Operator : pest2:rmp
Date Inj'd : 5/7/2024 3:31 pm Instrument : Pest 2
Sample : il11660,42e,,pp 11447 Quant Date : 5/7/2024 3:46 pm

Compound #11: 1260-3



Original Peak Response = 13671751



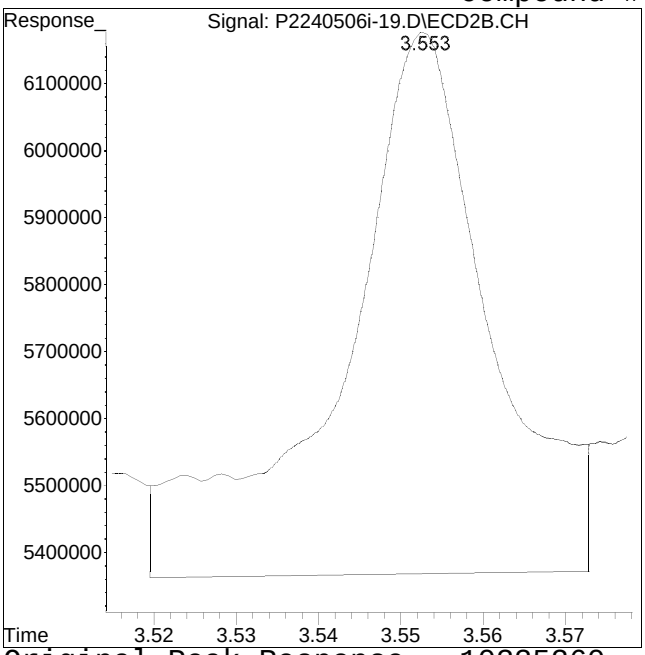
Manual Peak Response = 8892637 M4

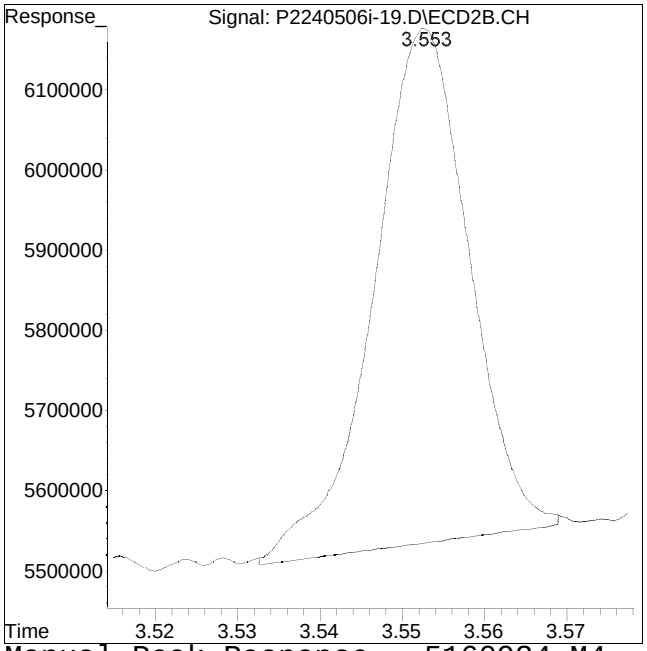
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-19.D Operator : pest2:rmp
Date Inj'd : 5/7/2024 3:31 pm Instrument : Pest 2
Sample : il11660,42e,,pp 11447 Quant Date : 5/7/2024 3:46 pm

Compound #62: 1260-3 #2



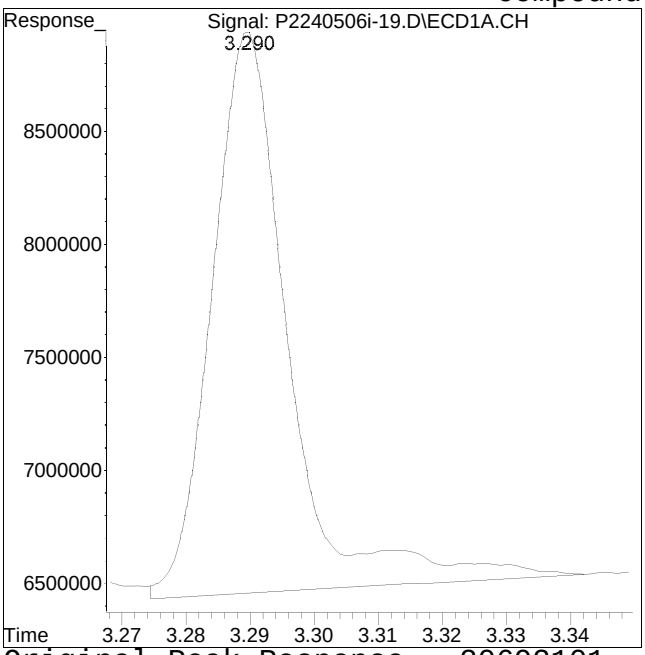


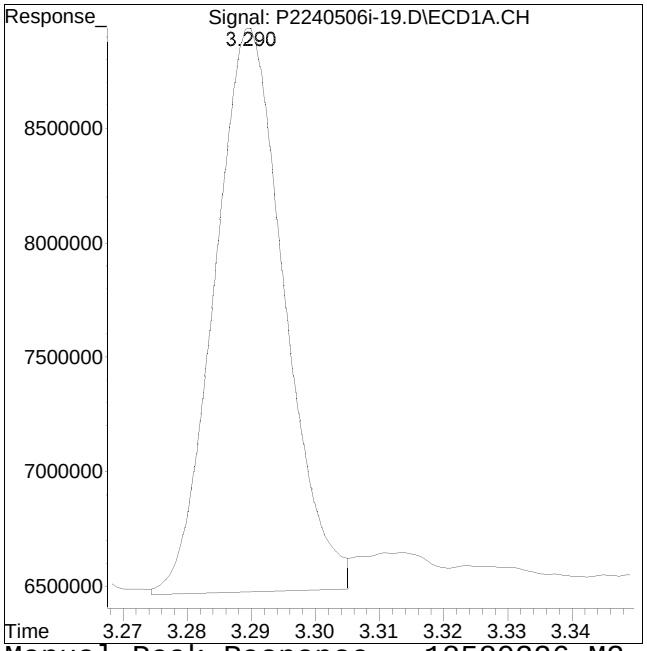
Original Peak Response = 10335260 Manual Peak Response = 5160934 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-19.D Operator : pest2:rmp
Date Inj'd : 5/7/2024 3:31 pm Instrument : Pest 2
Sample : il11660,42e,,pp 11447 Quant Date : 5/7/2024 3:46 pm

Compound #12: 1260-4



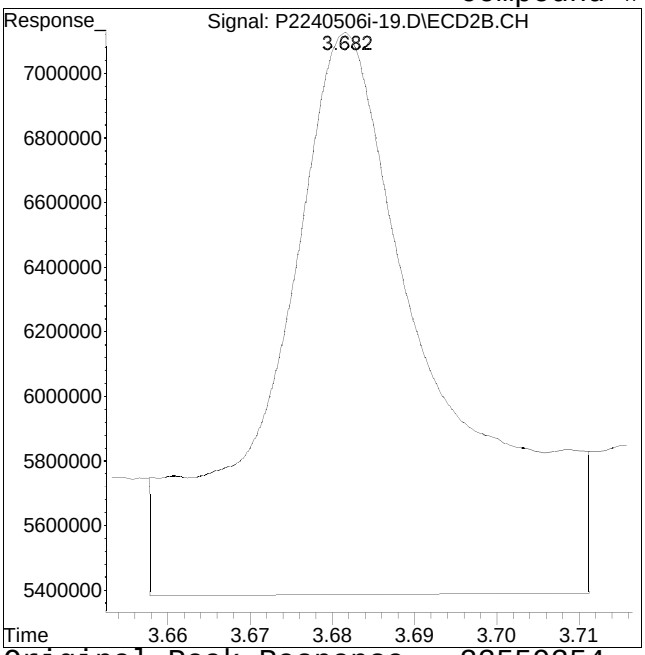


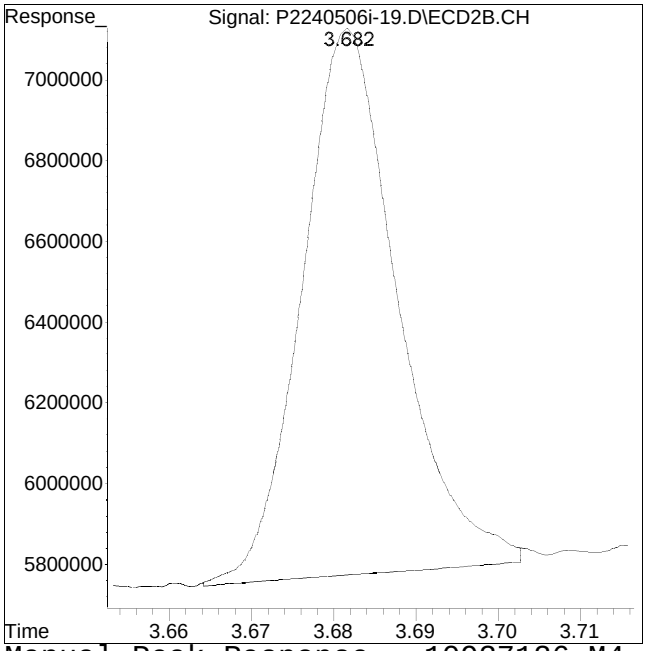
Original Peak Response = 20692101 Manual Peak Response = 18580326 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-19.D Operator : pest2:rmp
Date Inj'd : 5/7/2024 3:31 pm Instrument : Pest 2
Sample : il11660,42e,,pp 11447 Quant Date : 5/7/2024 3:46 pm

Compound #63: 1260-4 #2



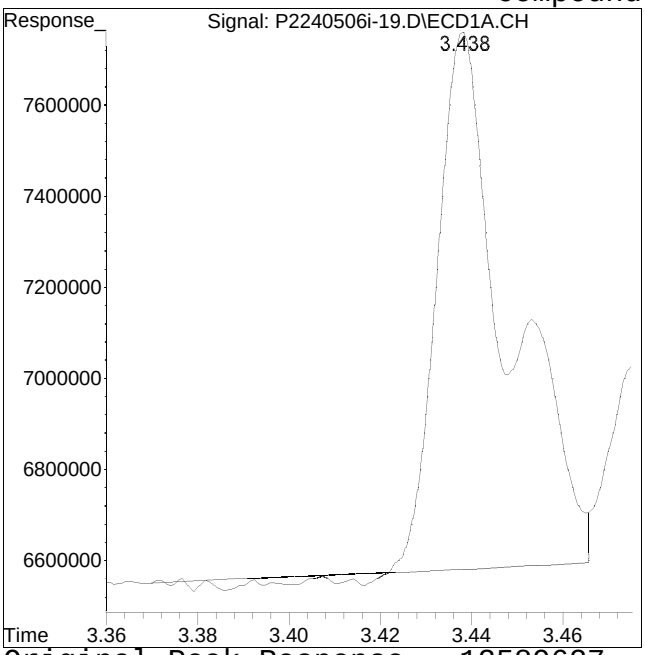


Original Peak Response = 23559354 Manual Peak Response = 10937126 M4
M4 = Poor automated baseline construction.

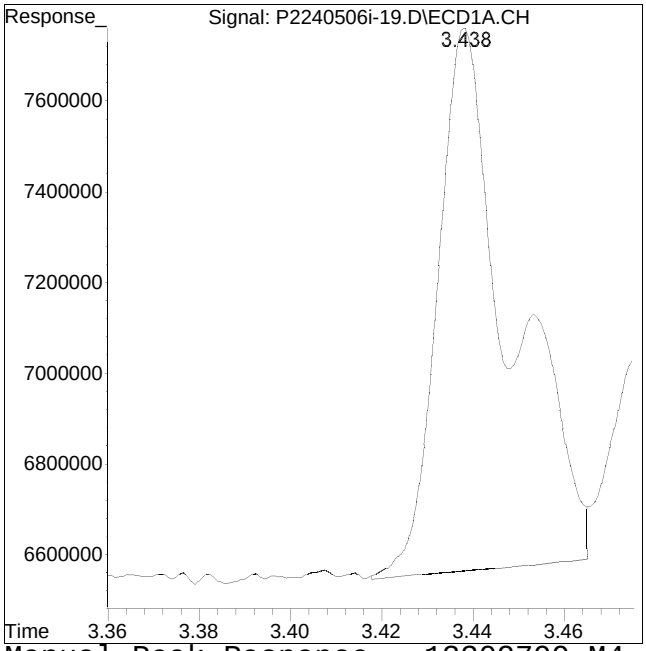
Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-19.D Operator : pest2:rmp
Date Inj'd : 5/7/2024 3:31 pm Instrument : Pest 2
Sample : il11660,42e,,pp 11447 Quant Date : 5/7/2024 3:46 pm

Compound #13: 1260-5



Original Peak Response = 12589627



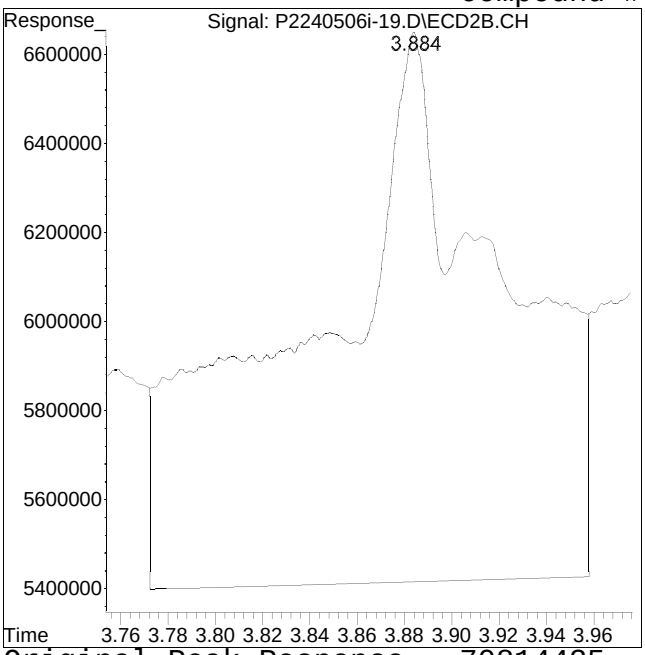
Manual Peak Response = 13302799 M4

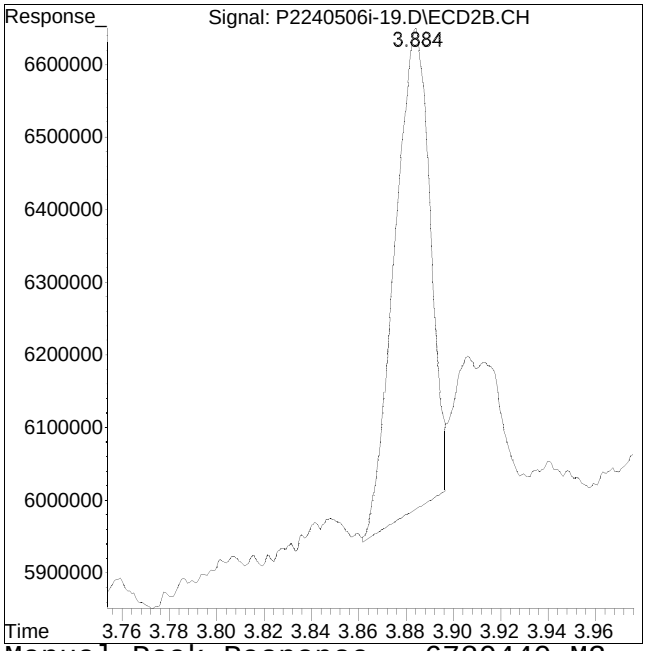
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-19.D Operator : pest2:rmp
Date Inj'd : 5/7/2024 3:31 pm Instrument : Pest 2
Sample : il11660,42e,,pp 11447 Quant Date : 5/7/2024 3:46 pm

Compound #64: 1260-5 #2





Original Peak Response = 70814435 Manual Peak Response = 6780440 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Evaluate Continuing Calibration Report

Data Path : I:\PCB\Pest2\2024\240506I\
Data File : P2240506i-20.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 07 May 2024   3:41 pm
Operator : pest2:rmp
Sample   : cicv1660,42,,pp 11459
Misc   : WG1918477,,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 20 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 08 09:30:02 2024
Quant Method : I:\PCB\Pest2\2024\240506I\P2_pcb_05_06_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Wed May 08 09:27:25 2024
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
1	i	1660_1br2nb	^	1.000	1.000	0.0	99	0.00
2	s	2,4,5,6-Tetrachloro-m-xylen		1.311	1.275	2.7	77	0.00
3	s	Decachlorobiphenyl		0.847	0.950	-12.2	91	0.00
4	l1	1016-1		0.022	0.021	4.5	78	0.00
5	l1	1016-2		0.049	0.048	2.0	79	0.00
6	l1	1016-3		0.101	0.107	-5.9	84	0.00
7	l1	1016-4		0.040	0.042	-5.0	85	0.00
8	l1	1016-5		0.045	0.044	2.2	80	0.00
9	l2	1260-1		0.065	0.067	-3.1	85	0.00
10	l2	1260-2		0.097	0.101	-4.1	84	0.00
11	l2	1260-3		0.060	0.052	13.3	70	0.00
12	l2	1260-4		0.130	0.113	13.1	70	0.00
13	l2	1260-5		0.091	0.082	9.9	73	0.00
14	i	2154_1br2nb	^	1.000	1.000	0.0	109	0.00
23	i	4268_1br2nb	^	1.000	1.000	0.0	110	0.00
34	i	1248_1br2nb	^	1.000	1.000	0.0	105	0.00
40	i	3262_1br2nb	^	1.000	1.000	0.0	109	0.00

Signal #2

1	i	1660_1br2nb	^	1.000	1.000	0.0	98	0.00
2	s	2,4,5,6-Tetrachloro-m-xyl		1.232	1.161	5.8	74	0.00
3	s	Decachlorobiphenyl		0.580	0.641	-10.5	91	0.00
4	l1	1016-1		0.021	0.020	4.8	75	0.00
5	l1	1016-2		0.046	0.046	0.0	79	0.00
6	l1	1016-3		0.092	0.088	4.3	77	0.00

Evaluate Continuing Calibration Report

Data Path : I:\PCB\Pest2\2024\240506I\
Data File : P2240506i-20.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 07 May 2024   3:41 pm
Operator : pest2:rmp
Sample   : cicv1660,42,,pp 11459
Misc   : WG1918477,,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 20 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 08 09:30:02 2024
Quant Method : I:\PCB\Pest2\2024\240506I\P2_pcb_05_06_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Wed May 08 09:27:25 2024
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
7	l1	1016-4		0.034	0.034	0.0	77	0.00
8	l1	1016-5		0.029	0.026	10.3	71	0.00
9	l2	1260-1		0.054	0.048	11.1	78	0.00
10	l2	1260-2		0.062	0.056	9.7	77	0.00
11	l2	1260-3		0.048	0.044	8.3	74	0.00
12	l2	1260-4		0.096	0.083	13.5	70	0.00
13	l2	1260-5		0.066	0.060	9.1	73	0.00
14	i	2154_1br2nb	^	1.000	1.000	0.0	110	0.00
23	i	4268_1br2nb	^	1.000	1.000	0.0	109	0.00
34	i	1248_1br2nb	^	1.000	1.000	0.0	104	0.00
40	i	3262_1br2nb	^	1.000	1.000	0.0	111	0.00

Evaluate Continuing Calibration Report - Not Founds

15	l3	1221-2		0.015	0.000	100.0#	0#	-1.51#
16	l3	1221-3		0.00895	0.00000	100.0#	0#	-1.57#
17	l3	1221-4		0.035	0.000	100.0#	0#	-1.58#
18	l4	1254-1		0.050	0.000	100.0#	0#	-2.31#
19	l4	1254-2		0.090	0.000	100.0#	0#	-2.42#
20	l4	1254-3		0.095	0.000	100.0#	0#	-2.60#
21	l4	1254-4		0.067	0.000	100.0#	0#	-2.73#
22	l4	1254-5		0.091	0.000	100.0#	0#	-2.95#
24	l6	1242-1		0.019	0.000	100.0#	0#	-1.58#
25	l6	1242-2		0.040	0.000	100.0#	0#	-1.73#
26	l6	1242-3		0.087	0.000	100.0#	0#	-1.91#
27	l6	1242-4		0.035	0.000	100.0#	0#	-1.97#
28	l6	1242-5		0.027	0.000	100.0#	0#	-2.32#

Evaluate Continuing Calibration Report

Data Path : I:\PCB\Pest2\2024\240506I\
Data File : P2240506i-20.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 07 May 2024   3:41 pm
Operator : pest2:rmp
Sample   : cicv1660,42,,pp 11459
Misc   : WG1918477,,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 20 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 08 09:30:02 2024
Quant Method : I:\PCB\Pest2\2024\240506I\P2_pcb_05_06_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Wed May 08 09:27:25 2024
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(Min)
29	l9	1268-1	0.181	0.000	100.0#	0#	-3.45#
30	l9	1268-2	0.167	0.000	100.0#	0#	-3.47#
31	l9	1268-3	0.133	0.000	100.0#	0#	-3.57#
32	l9	1268-4	0.058	0.000	100.0#	0#	-3.76#
33	l9	1268-5	0.392	0.000	100.0#	0#	-3.92#
35	l7	1248-1	0.057	0.000	100.0#	0#	-1.91#
36	l7	1248-2	0.074	0.000	100.0#	0#	-2.04#
37	l7	1248-3	0.065	0.000	100.0#	0#	-2.14#
38	l7	1248-4	0.058	0.000	100.0#	0#	-2.32#
39	l7	1248-5	0.050	0.000	100.0#	0#	-2.34#
41	l5	1232-1	0.026	0.000	100.0#	0#	-1.58#
42	l5	1232-2	0.024	0.000	100.0#	0#	-1.73#
43	l5	1232-3	0.050	0.000	100.0#	0#	-1.92#
44	l5	1232-4	0.020	0.000	100.0#	0#	-1.97#
45	l5	1232-5	0.015	0.000	100.0#	0#	-2.32#
46	l8	1262-1	0.070	0.000	100.0#	0#	-2.82#
47	l8	1262-2	0.091	0.000	100.0#	0#	-3.01#
48	l8	1262-3	0.079	0.000	100.0#	0#	-3.13#
49	l8	1262-4	0.160	0.000	100.0#	0#	-3.29#
50	l8	1262-5	0.050	0.000	100.0#	0#	-3.76#
Signal #2							
15	l3	1221-2	0.015	0.000	100.0#	0#	-1.72#
16	l3	1221-3	0.00933	0.00000	100.0#	0#	-1.78#
17	l3	1221-4	0.034	0.000	100.0#	0#	-1.81#
18	l4	1254-1	0.046	0.000	100.0#	0#	-2.65#
19	l4	1254-2	0.052	0.000	100.0#	0#	-2.73#
20	l4	1254-3	0.078	0.000	100.0#	0#	-2.96#
21	l4	1254-4	0.048	0.000	100.0#	0#	-3.07#
22	l4	1254-5	0.071	0.000	100.0#	0#	-3.35#

Evaluate Continuing Calibration Report

Data Path : I:\PCB\Pest2\2024\240506I\
Data File : P2240506i-20.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 07 May 2024   3:41 pm
Operator : pest2:rmp
Sample   : cicv1660,42,,pp 11459
Misc   : WG1918477,,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 20 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 08 09:30:02 2024
Quant Method : I:\PCB\Pest2\2024\240506I\P2_pcb_05_06_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Wed May 08 09:27:25 2024
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(Min)
24 l6	1242-1	0.017	0.000	100.0#	0#	-1.80#
25 l6	1242-2	0.038	0.000	100.0#	0#	-1.97#
26 l6	1242-3	0.073	0.000	100.0#	0#	-2.18#
27 l6	1242-4	0.029	0.000	100.0#	0#	-2.24#
28 l6	1242-5	0.022	0.000	100.0#	0#	-2.62#
29 l9	1268-1	0.119	0.000	100.0#	0#	-3.88#
30 l9	1268-2	0.110	0.000	100.0#	0#	-3.90#
31 l9	1268-3	0.090	0.000	100.0#	0#	-4.05#
32 l9	1268-4	0.039	0.000	100.0#	0#	-4.20#
33 l9	1268-5	0.245	0.000	100.0#	0#	-4.38#
35 l7	1248-1	0.052	0.000	100.0#	0#	-2.17#
36 l7	1248-2	0.034	0.000	100.0#	0#	-2.32#
37 l7	1248-3	0.043	0.000	100.0#	0#	-2.45#
38 l7	1248-4	0.048	0.000	100.0#	0#	-2.62#
39 l7	1248-5	0.054	0.000	100.0#	0#	-2.65#
41 l5	1232-1	0.025	0.000	100.0#	0#	-1.80#
42 l5	1232-2	0.025	0.000	100.0#	0#	-1.98#
43 l5	1232-3	0.045	0.000	100.0#	0#	-2.18#
44 l5	1232-4	0.018	0.000	100.0#	0#	-2.24#
45 l5	1232-5	0.013	0.000	100.0#	0#	-2.62#
46 l8	1262-1	0.049	0.000	100.0#	0#	-3.16#
47 l8	1262-2	0.065	0.000	100.0#	0#	-3.39#
48 l8	1262-3	0.059	0.000	100.0#	0#	-3.55#
49 l8	1262-4	0.110	0.000	100.0#	0#	-3.68#
50 l8	1262-5	0.039	0.000	100.0#	0#	-4.20#

* Evaluation of CC level amount vs concentration.
(#) = Out of Range SPCC's out = 0 CCC's out = 0
(^) = ISTD area calculated using ICAL average

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240506I\
Data File : P2240506i-20.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 07 May 2024 3:41 pm
Operator : pest2:rmp
Sample : cicv1660,42,,pp 11459
Misc : WG1918477,,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 20 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 08 09:30:02 2024
Quant Method : I:\PCB\Pest2\2024\240506I\P2_pcb_05_06_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Wed May 08 09:27:25 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1660_1br2nb	1.158	1.227	413.6E6	301.7E6	25.000	25.000
14) i	2154_1br2nb	1.158	1.227	413.6E6	301.7E6	25.000	25.000
23) i	4268_1br2nb	1.158	1.227	413.6E6	301.7E6	25.000	25.000
34) i	1248_1br2nb	1.158	1.227	413.6E6	301.7E6	25.000	25.000
40) i	3262_1br2nb	1.158	1.227	413.6E6	301.7E6	25.000	25.000
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	1.444	1.602	337.4E6	224.1E6	15.558M3	15.077
	Spiked Amount 20.000	Range 30 - 150		Recovery =		77.79%	75.39%
3) s	Decachlorobi	4.021	4.534	502.9E6	247.4E6	35.890	35.352
	Spiked Amount 20.000	Range 30 - 150		Recovery =		179.45%#	176.76%#
	Target Compounds						
4) l1	1016-1	1.583	1.804	87072990	59177890	234.537M3	233.086
5) l1	1016-2	1.725	1.975	199.6E6	137.4E6	245.326M3	246.318
6) l1	1016-3	1.915	2.176	442.9E6	266.4E6	264.722M4	238.852
7) l1	1016-4	1.970	2.236	175.5E6	101.6E6	263.118M3	246.165M3
8) l1	1016-5	2.141	2.447	180.9E6	78078033	244.472M4	223.279M4
	Sum 1016-1			1086.0E6	642.6E6	1252.176	1187.700
	Average 1016-1					250.435	237.540
9) l2	1260-1	2.686	3.058	275.6E6	143.8E6	258.098	220.798M4
10) l2	1260-2	2.816	3.159	415.7E6	168.9E6	258.251M3	226.712M4
11) l2	1260-3	3.132	3.553	213.9E6	132.2E6	213.888M4	228.710

Data Path : I:\PCB\Pest2\2024\240506I\
Data File : P2240506i-20.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 07 May 2024 3:41 pm
Operator : pest2:rmp
Sample : cicv1660,42,,pp 11459
Misc : WG1918477,,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 20 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 08 09:30:02 2024
Quant Method : I:\PCB\Pest2\2024\240506I\P2_pcb_05_06_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Wed May 08 09:27:25 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
12) l2	1260-4	3.288	3.682	465.4E6	249.7E6	217.191M3	214.943
13) l2	1260-5	3.436	3.885	339.8E6	181.9E6	226.233M4	228.376
Sum	1260-1			1710.4E6	876.4E6	1173.661	1119.539
Average	1260-1					234.732	223.908
15) l3	1221-2	0.000	0.000	0	0	N.D. d	N.D. d
16) l3	1221-3	0.000	0.000	0	0	N.D. d	N.D. d
17) l3	1221-4	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1221-2			0	0	N.D.	N.D.
Average	1221-2					0.000	0.000
18) l4	1254-1	0.000	0.000	0	0	N.D. d	N.D. d
19) l4	1254-2	0.000	0.000	0	0	N.D. d	N.D. d
20) l4	1254-3	0.000	0.000	0	0	N.D. d	N.D. d
21) l4	1254-4	0.000	0.000	0	0	N.D. d	N.D. d
22) l4	1254-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1254-1			0	0	N.D.	N.D.
Average	1254-1					0.000	0.000
24) l6	1242-1	0.000	0.000	0	0	N.D. d	N.D. d
25) l6	1242-2	0.000	0.000	0	0	N.D. d	N.D. d
26) l6	1242-3	0.000	0.000	0	0	N.D. d	N.D. d
27) l6	1242-4	0.000	0.000	0	0	N.D. d	N.D. d
28) l6	1242-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1242-1			0	0	N.D.	N.D.
Average	1242-1					0.000	0.000
29) l9	1268-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l9	1268-2	0.000	0.000	0	0	N.D. d	N.D. d
31) l9	1268-3	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\PCB\Pest2\2024\240506I\
Data File : P2240506i-20.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 07 May 2024 3:41 pm
Operator : pest2:rmp
Sample : cicv1660,42,,pp 11459
Misc : WG1918477,,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 20 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 08 09:30:02 2024
Quant Method : I:\PCB\Pest2\2024\240506I\P2_pcb_05_06_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Wed May 08 09:27:25 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
32) l9	1268-4	0.000	0.000	0	0	N.D. d	N.D. d
33) l9	1268-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1268-1			0	0	N.D.	N.D.
Average	1268-1					0.000	0.000
35) l7	1248-1	0.000	0.000	0	0	N.D. d	N.D. d
36) l7	1248-2	0.000	0.000	0	0	N.D. d	N.D. d
37) l7	1248-3	0.000	0.000	0	0	N.D. d	N.D. d
38) l7	1248-4	0.000	0.000	0	0	N.D. d	N.D. d
39) l7	1248-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1248-1			0	0	N.D.	N.D.
Average	1248-1					0.000	0.000
41) l5	1232-1	0.000	0.000	0	0	N.D. d	N.D. d
42) l5	1232-2	0.000	0.000	0	0	N.D. d	N.D. d
43) l5	1232-3	0.000	0.000	0	0	N.D. d	N.D. d
44) l5	1232-4	0.000	0.000	0	0	N.D. d	N.D. d
45) l5	1232-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1232-1			0	0	N.D.	N.D.
Average	1232-1					0.000	0.000
46) l8	1262-1	0.000	0.000	0	0	N.D. d	N.D. d
47) l8	1262-2	0.000	0.000	0	0	N.D. d	N.D. d
48) l8	1262-3	0.000	0.000	0	0	N.D. d	N.D. d
49) l8	1262-4	0.000	0.000	0	0	N.D. d	N.D. d
50) l8	1262-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1262-1			0	0	N.D.	N.D.
Average	1262-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	1262-1			0	0	N.D.	N.D.
Average	1262-1					0.000	0.000

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240506I\
Data File : P2240506i-20.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 07 May 2024 3:41 pm
Operator : pest2:rmp
Sample : cicv1660,42,,pp 11459
Misc : WG1918477,,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 20 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 08 09:30:02 2024
Quant Method : I:\PCB\Pest2\2024\240506I\P2_pcb_05_06_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Wed May 08 09:27:25 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l

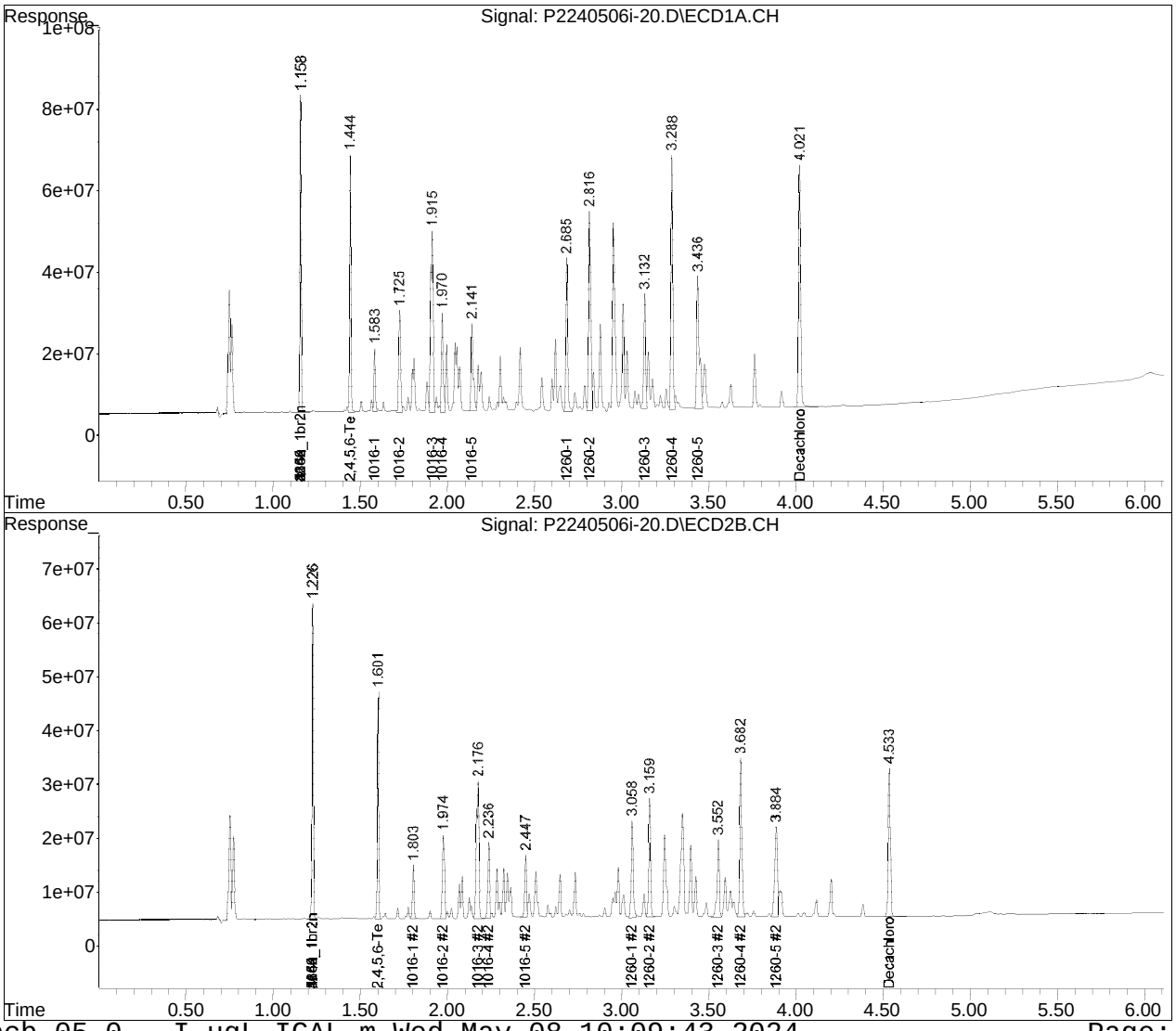
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PCB\Pest2\2024\240506I\
Data File : P2240506i-20.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 07 May 2024 3:41 pm
Operator : pest2:rmp
Sample : cicv1660,42,,pp 11459
Misc : WG1918477,,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 20 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 08 09:30:02 2024
Quant Method : I:\PCB\Pest2\2024\240506I\P2_pcb_05_06_24_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Wed May 08 09:27:25 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

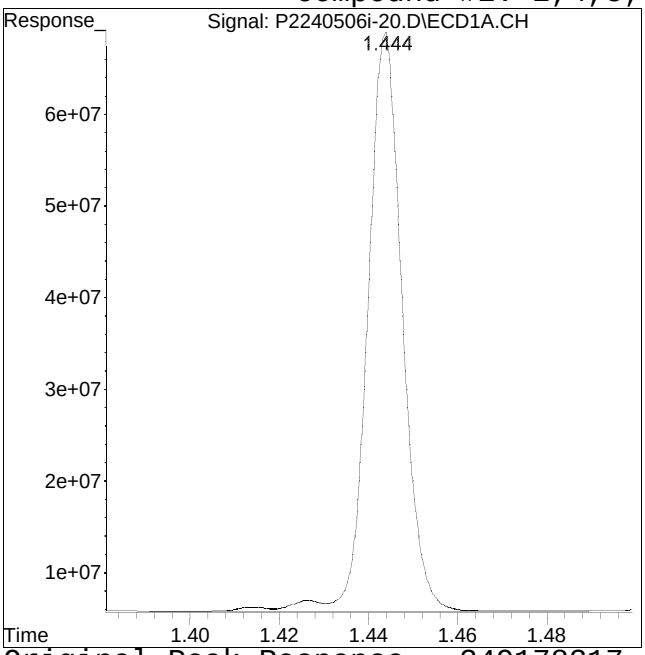
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

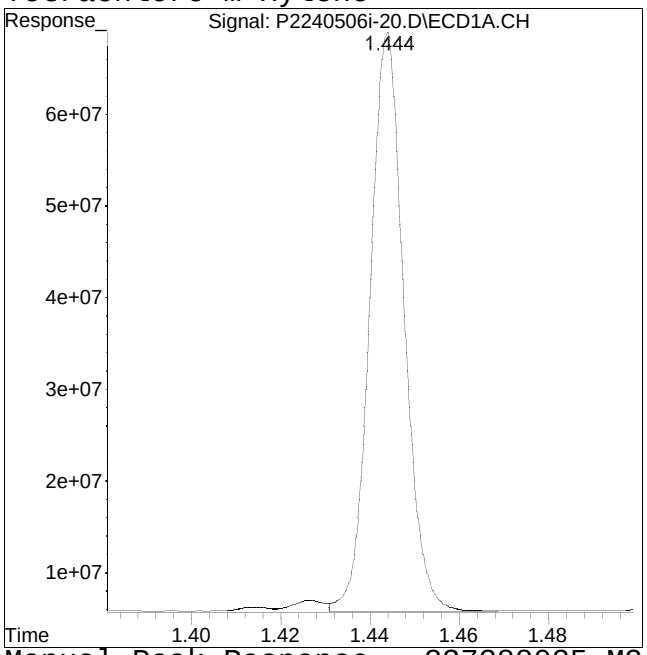


Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-20.D Operator : pest2:rmp
Date Inj'd : 5/7/2024 3:41 pm Instrument : Pest 2
Sample : cicv1660,42,,pp 11459 Quant Date : 5/8/2024 9:30 am

Compound #2: 2,4,5,6-Tetrachloro-m-xylene



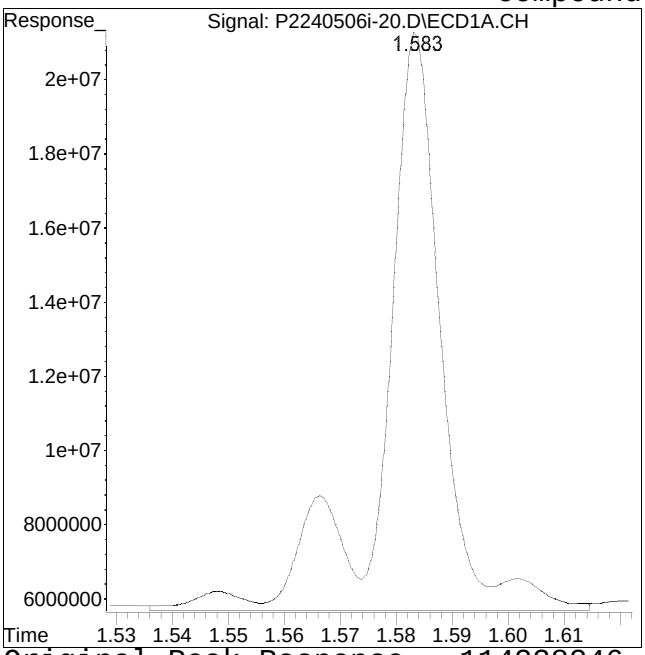


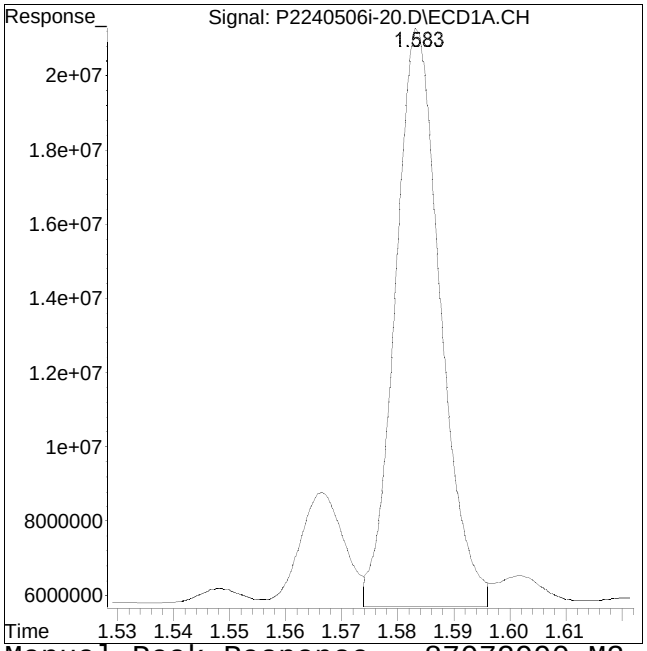
Original Peak Response = 349178317 Manual Peak Response = 337388025 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-20.D Operator : pest2:rmp
Date Inj'd : 5/7/2024 3:41 pm Instrument : Pest 2
Sample : cicv1660,42,,pp 11459 Quant Date : 5/8/2024 9:30 am

Compound #4: 1016-1



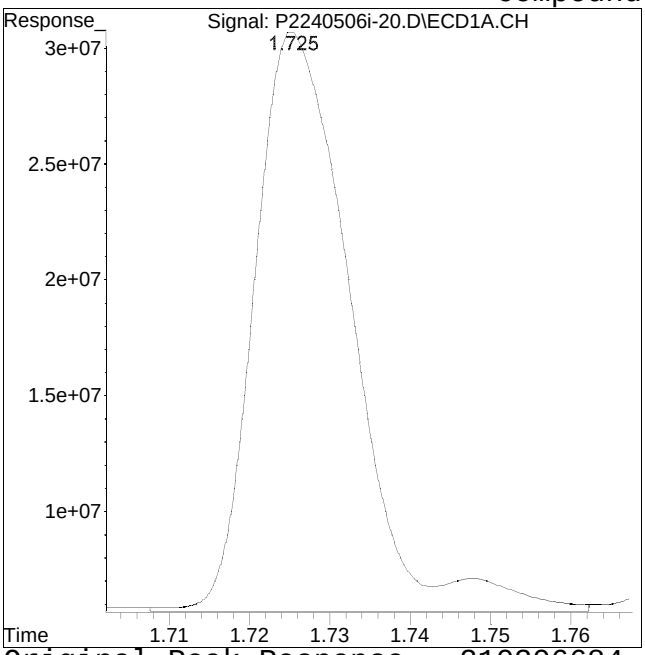


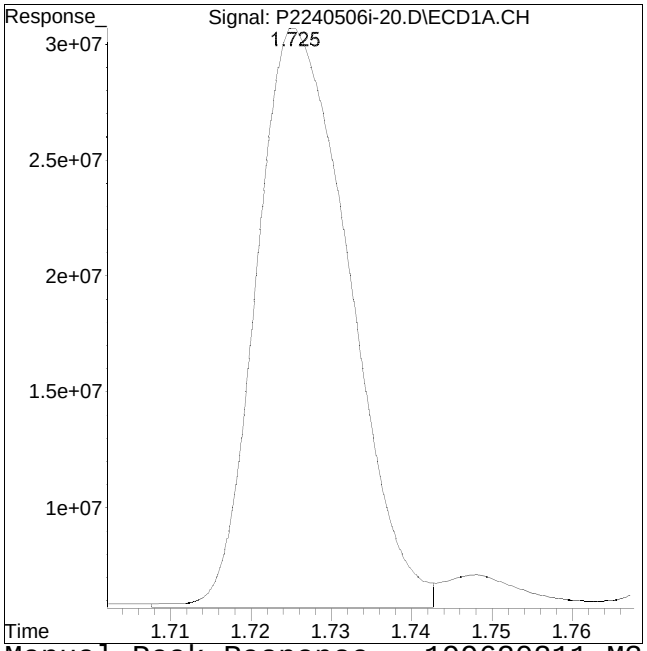
Original Peak Response = 114228246 Manual Peak Response = 87072990 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-20.D Operator : pest2:rmp
Date Inj'd : 5/7/2024 3:41 pm Instrument : Pest 2
Sample : cicv1660,42,,pp 11459 Quant Date : 5/8/2024 9:30 am

Compound #5: 1016-2



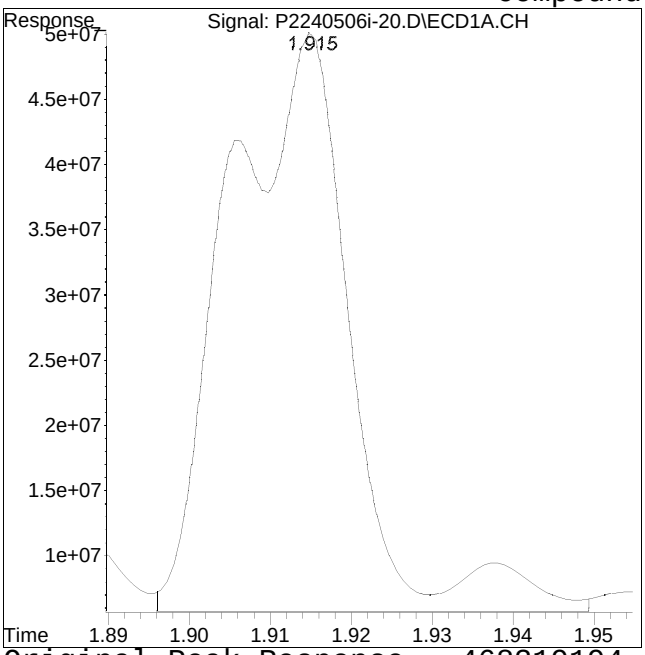


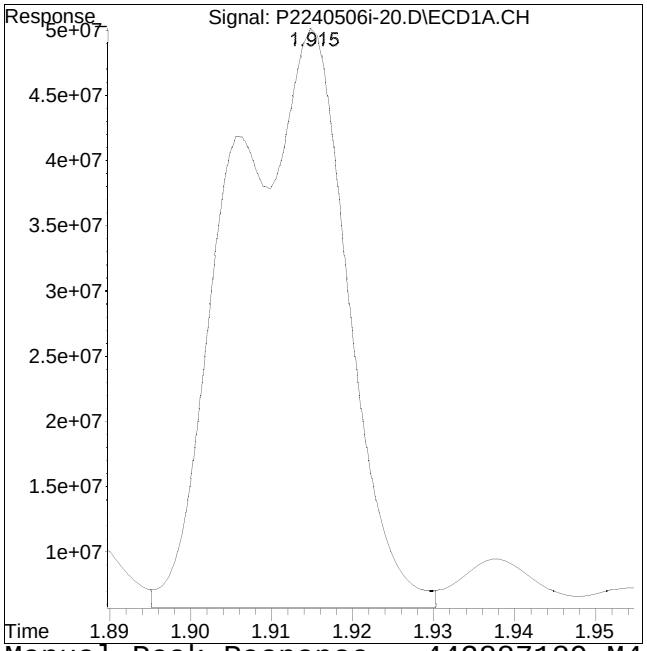
Original Peak Response = 210306684 Manual Peak Response = 199620211 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-20.D Operator : pest2:rmp
Date Inj'd : 5/7/2024 3:41 pm Instrument : Pest 2
Sample : cicv1660,42,,pp 11459 Quant Date : 5/8/2024 9:30 am

Compound #6: 1016-3



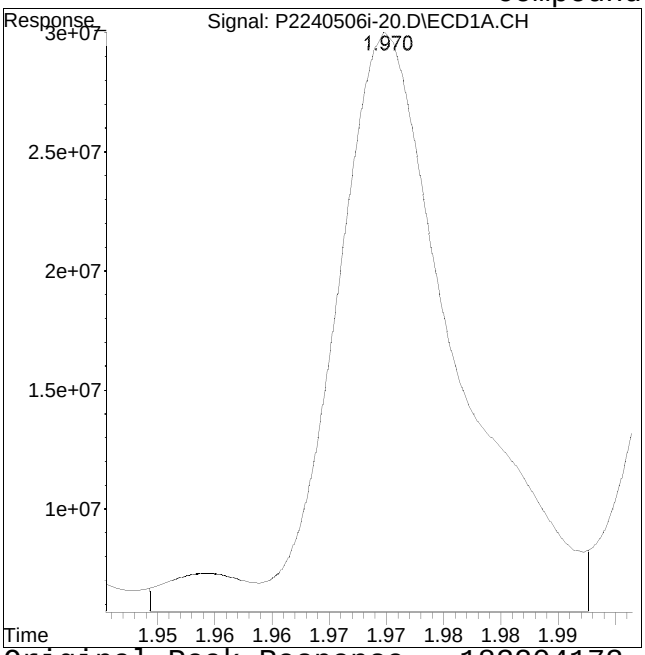


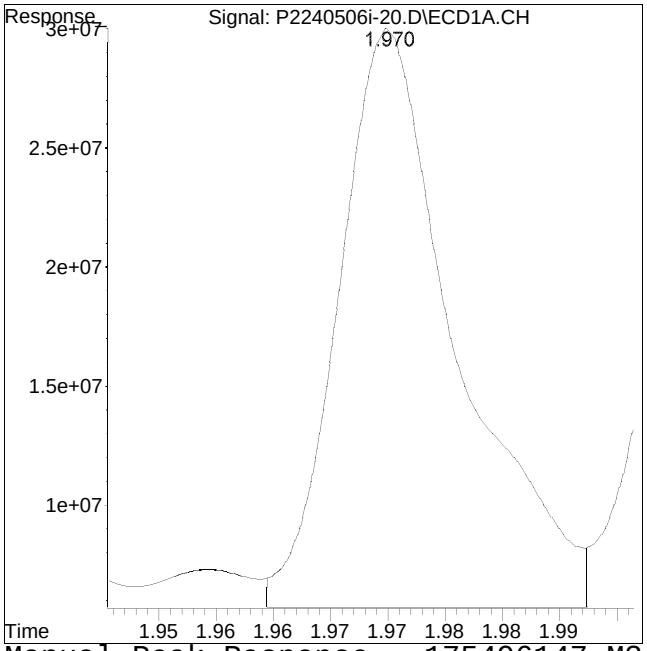
Original Peak Response = 468319194 Manual Peak Response = 442887189 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-20.D Operator : pest2:rmp
Date Inj'd : 5/7/2024 3:41 pm Instrument : Pest 2
Sample : cicv1660,42,,pp 11459 Quant Date : 5/8/2024 9:30 am

Compound #7: 1016-4



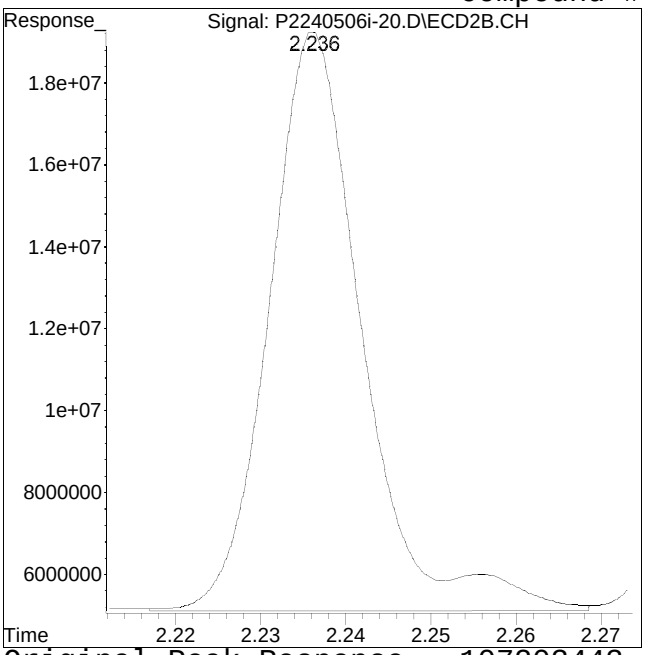


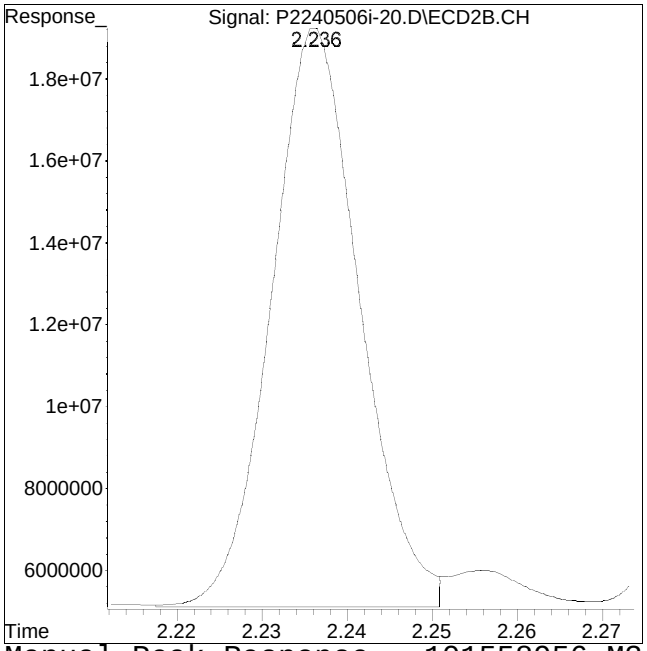
Original Peak Response = 183204173 Manual Peak Response = 175496147 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-20.D Operator : pest2:rmp
Date Inj'd : 5/7/2024 3:41 pm Instrument : Pest 2
Sample : cicv1660,42,,pp 11459 Quant Date : 5/8/2024 9:30 am

Compound #58: 1016-4 #2



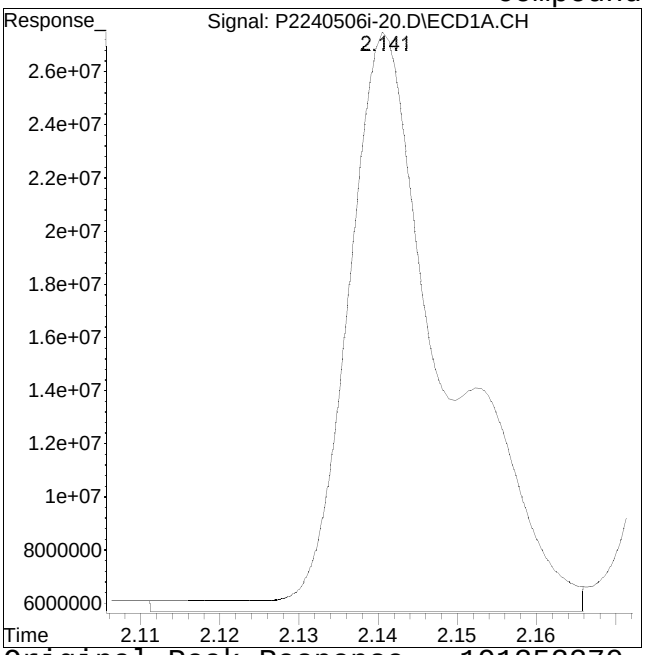


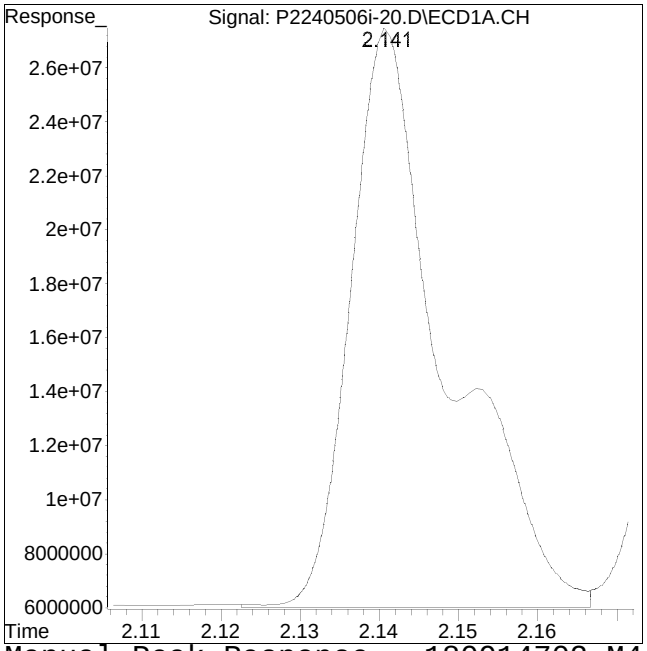
Original Peak Response = 107203443 Manual Peak Response = 101558956 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-20.D Operator : pest2:rmp
Date Inj'd : 5/7/2024 3:41 pm Instrument : Pest 2
Sample : cicv1660,42,,pp 11459 Quant Date : 5/8/2024 9:30 am

Compound #8: 1016-5



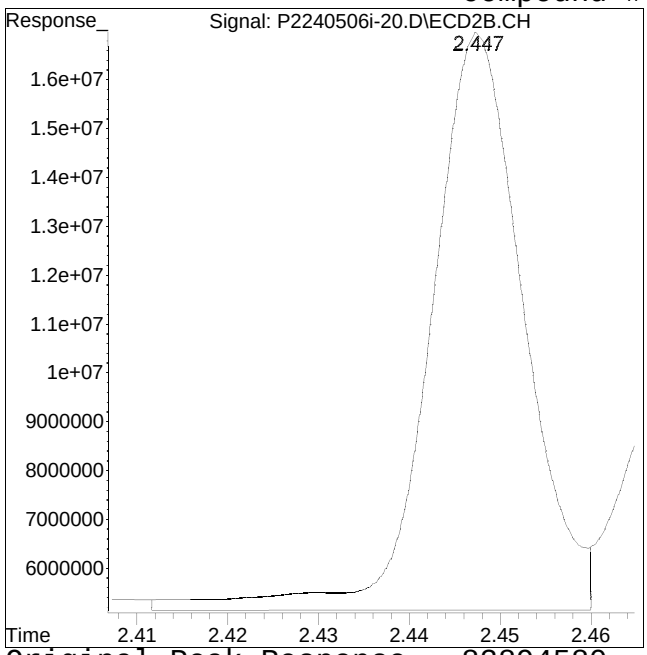


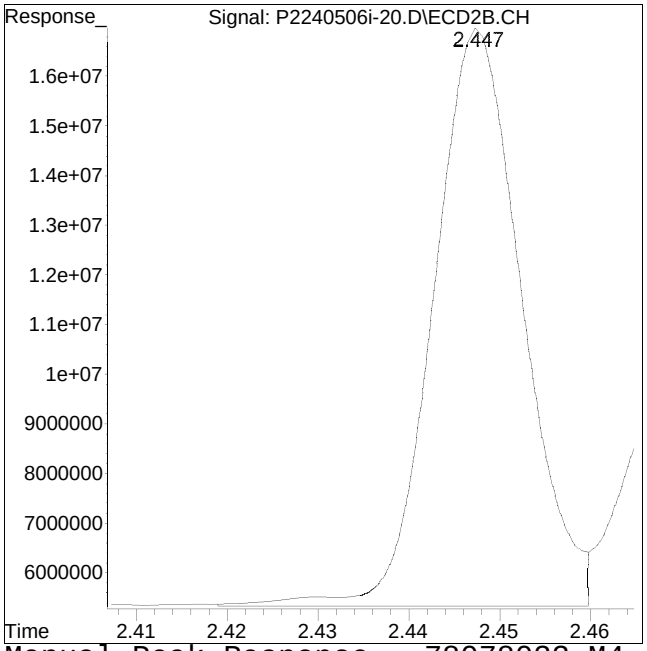
Original Peak Response = 191352370 Manual Peak Response = 180914702 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-20.D Operator : pest2:rmp
Date Inj'd : 5/7/2024 3:41 pm Instrument : Pest 2
Sample : cicv1660,42,,pp 11459 Quant Date : 5/8/2024 9:30 am

Compound #59: 1016-5 #2



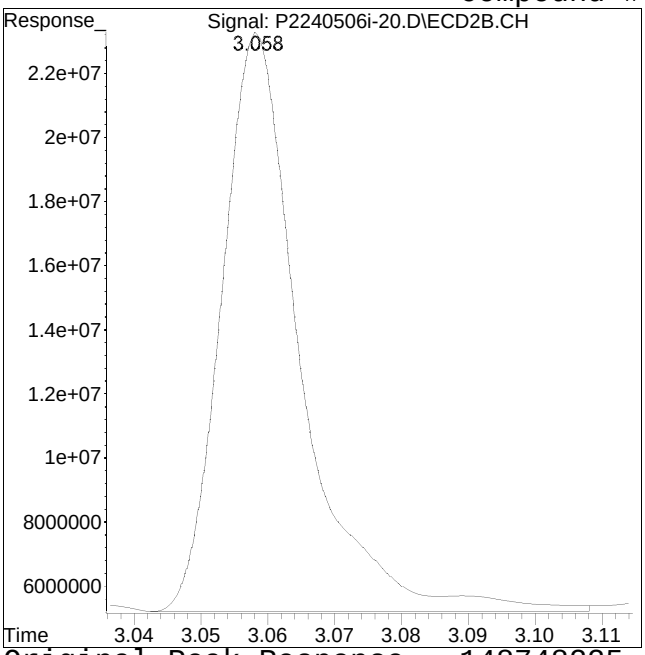


Original Peak Response = 83894580 Manual Peak Response = 78078033 M4
M4 = Poor automated baseline construction.

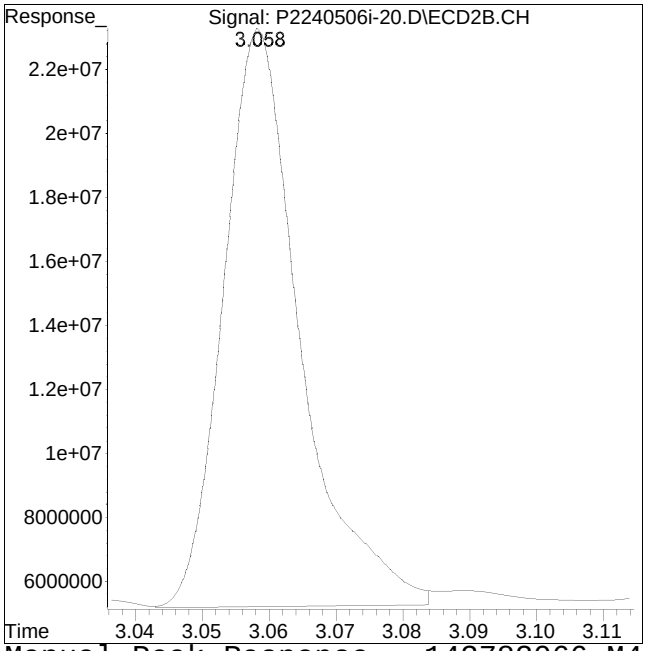
Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-20.D Operator : pest2:rmp
Date Inj'd : 5/7/2024 3:41 pm Instrument : Pest 2
Sample : cicv1660,42,,pp 11459 Quant Date : 5/8/2024 9:30 am

Compound #60: 1260-1 #2



Original Peak Response = 148748225

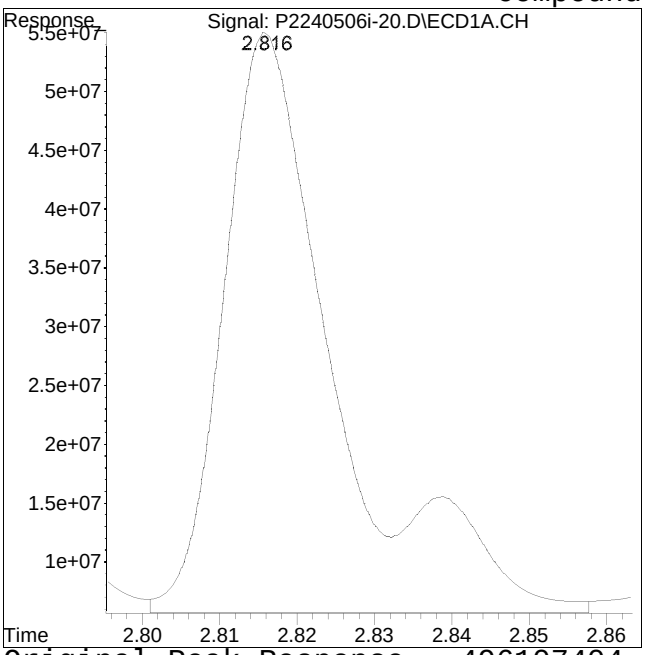


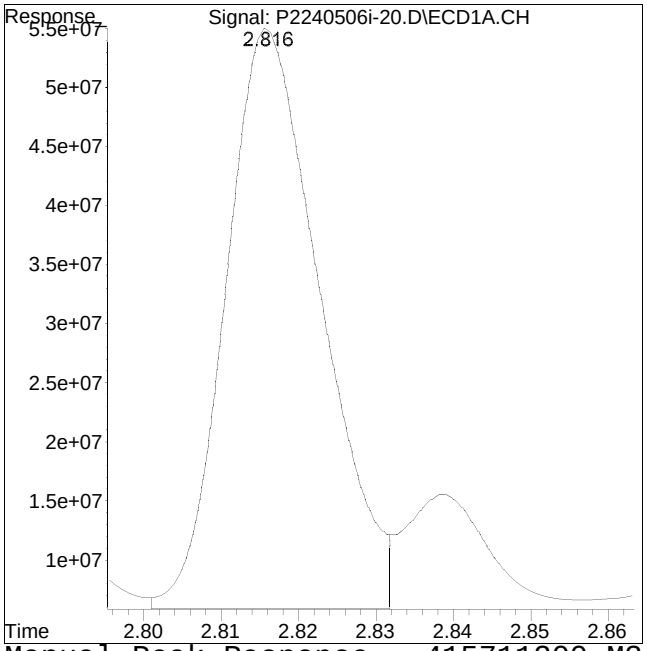
Manual Peak Response = 143783066 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-20.D Operator : pest2:rmp
Date Inj'd : 5/7/2024 3:41 pm Instrument : Pest 2
Sample : cicv1660,42,,pp 11459 Quant Date : 5/8/2024 9:30 am

Compound #10: 1260-2



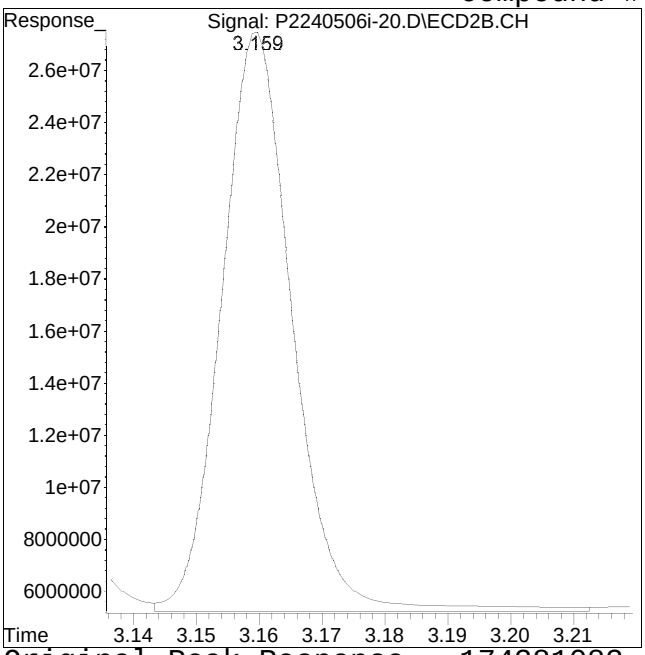


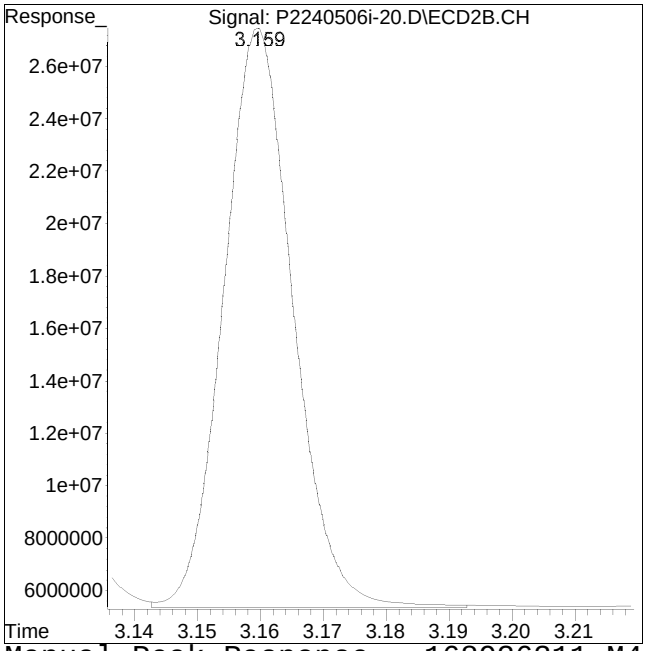
Original Peak Response = 496107404 Manual Peak Response = 415711200 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-20.D Operator : pest2:rmp
Date Inj'd : 5/7/2024 3:41 pm Instrument : Pest 2
Sample : cicv1660,42,,pp 11459 Quant Date : 5/8/2024 9:30 am

Compound #61: 1260-2 #2



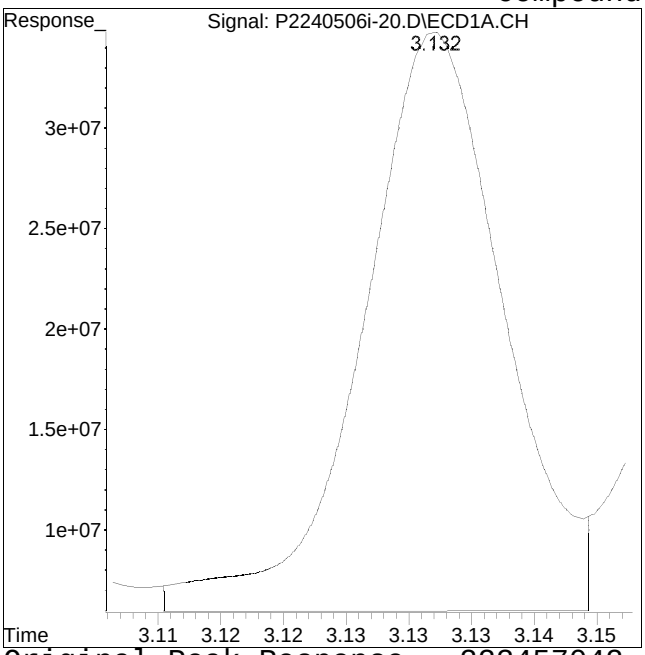


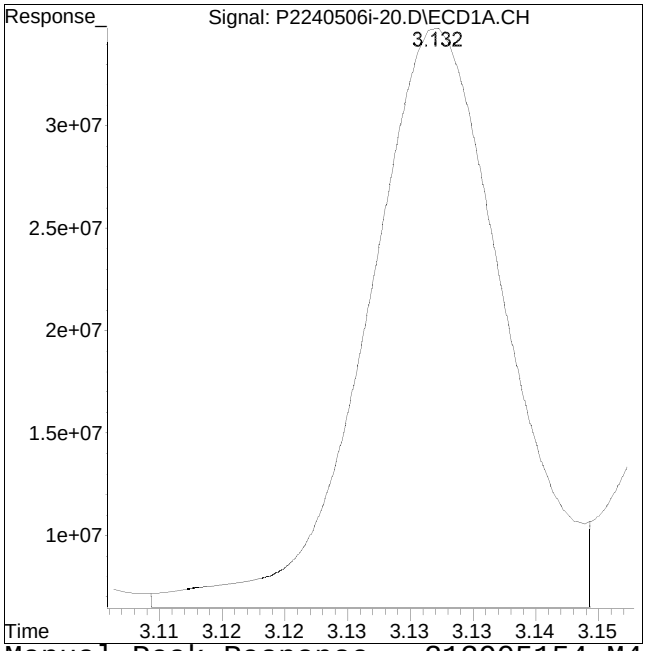
Original Peak Response = 174381083 Manual Peak Response = 168936311 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-20.D Operator : pest2:rmp
Date Inj'd : 5/7/2024 3:41 pm Instrument : Pest 2
Sample : cicv1660,42,,pp 11459 Quant Date : 5/8/2024 9:30 am

Compound #11: 1260-3



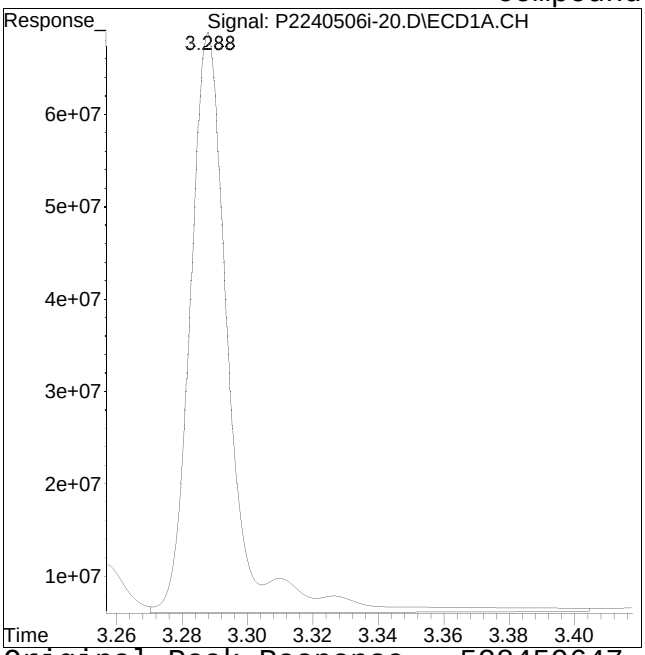


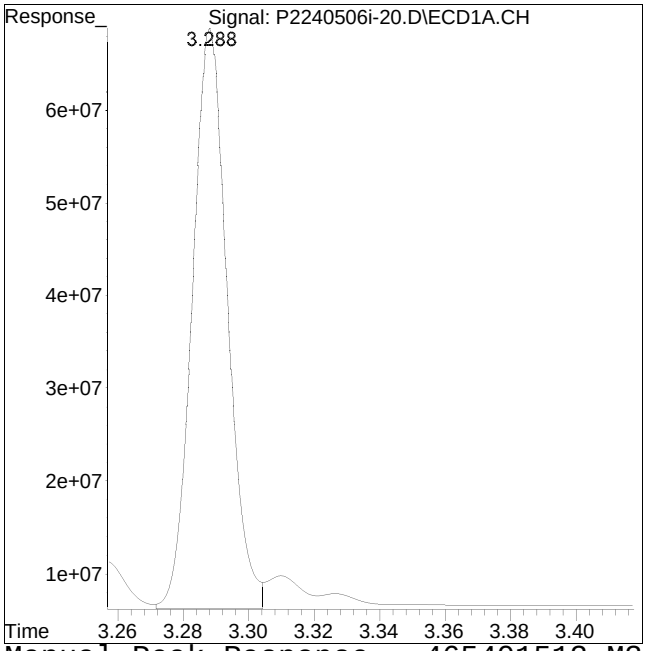
Original Peak Response = 223457042 Manual Peak Response = 213905154 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-20.D Operator : pest2:rmp
Date Inj'd : 5/7/2024 3:41 pm Instrument : Pest 2
Sample : cicv1660,42,,pp 11459 Quant Date : 5/8/2024 9:30 am

Compound #12: 1260-4



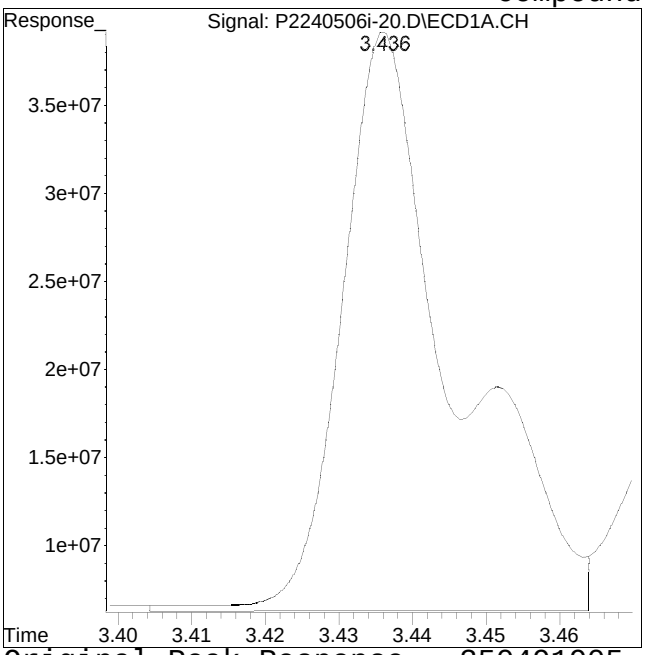


Original Peak Response = 528459647 Manual Peak Response = 465401513 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

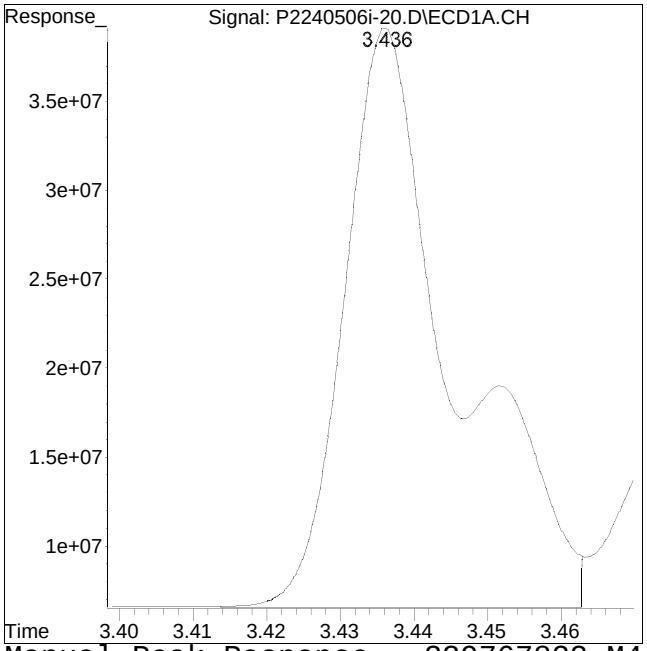
Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240506I\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240506i-20.D Operator : pest2:rmp
Date Inj'd : 5/7/2024 3:41 pm Instrument : Pest 2
Sample : cicv1660,42,,pp 11459 Quant Date : 5/8/2024 9:30 am

Compound #13: 1260-5



Original Peak Response = 350491905



Manual Peak Response = 339767822 M4
M4 = Poor automated baseline construction.

Continuing Calibration

Calibration Verification Summary
Form 7
PCBs

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Instrument ID	: PEST2	**Calibration Date**	: 06/27/24 05:39
Lab File ID	: P2240627a-02	**Init. Calib. Date(s)**	: 05/06/24 05/07/24
Sample No	: WG1940092-1	**Init. Calib. Times**	: 20:49 15:31
Channel	: A		

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
1660_1br2nb	1	1	-	0	20	93	0
2,4,5,6-Tetrachloro-m-xylen	1.311	1.307	-	0.3	20	74	0
Decachlorobiphenyl	0.847	0.872	-	-3	20	78	0
1016-1	0.022	0.02	-	9.1	20	70	0
1016-2	0.049	0.046	-	6.1	20	71	0
1016-3	0.101	0.095	-	5.9	20	70	0
1016-4	0.04	0.037	-	7.5	20	69	0
1016-5	0.045	0.04	-	11.1	20	68	0
1260-1	0.065	0.056	-	13.8	20	67	0
1260-2	0.097	0.085	-	12.4	20	67	0
1260-3	0.06	0.052	-	13.3	20	65	0
1260-4	0.13	0.114	-	12.3	20	66	0
1260-5	0.091	0.079	-	13.2	20	66	0

* Value outside of QC limits.

Calibration Verification Summary
Form 7
PCBs

Client	: Alpha Geoscience		**Lab Number**	: L2434679	
Project Name	: RANCO MINE		**Project Number**	: 12123	
Instrument ID	: PEST2		**Calibration Date**	: 06/27/24 05:39	
Lab File ID	: P2240627a-02		**Init. Calib. Date(s)**	: 05/06/24	05/07/24
Sample No	: WG1940092-1		**Init. Calib. Times**	: 20:49	15:31
Channel	: B				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
1660_1br2nb #2	1	1	-	0	20	90	0
2,4,5,6-Tetrachloro-m-xylen	1.232	1.238	-	-0.5	20	72	0
Decachlorobiphenyl #2	0.58	0.797	-	-37.4*	20	104	-.01
1016-1 #2	0.021	0.021	-	0	20	72	0
1016-2 #2	0.046	0.046	-	0	20	73	0
1016-3 #2	0.092	0.09	-	2.2	20	72	-.01
1016-4 #2	0.034	0.035	-	-2.9	20	73	-.01
1016-5 #2	0.029	0.029	-	0	20	74	-.01
1260-1 #2	0.054	0.045	-	16.7	20	67	-.01
1260-2 #2	0.062	0.066	-	-6.5	20	84	-.01
1260-3 #2	0.048	0.053	-	-10.4	20	82	-.01
1260-4 #2	0.096	0.106	-	-10.4	20	82	-.01
1260-5 #2	0.066	0.075	-	-13.6	20	84	-.01

* Value outside of QC limits.

Calibration Verification Summary
Form 7
PCBs

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Instrument ID	: PEST2	**Calibration Date**	: 06/27/24 13:30
Lab File ID	: P2240627a-34	**Init. Calib. Date(s)**	: 05/06/24 05/07/24
Sample No	: WG1940092-5	**Init. Calib. Times**	: 20:49 15:31
Channel	: A		

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
1660_1br2nb	1	1	-	0	20	92	0
2,4,5,6-Tetrachloro-m-xylen	1.311	1.357	-	-3.5	20	76	0
Decachlorobiphenyl	0.847	0.898	-	-6	20	80	0
1016-1	0.022	0.021	-	4.5	20	71	0
1016-2	0.049	0.045	-	8.2	20	68	0
1016-3	0.101	0.095	-	5.9	20	70	0
1016-4	0.04	0.037	-	7.5	20	70	0
1016-5	0.045	0.04	-	11.1	20	68	0
1260-1	0.065	0.058	-	10.8	20	69	0
1260-2	0.097	0.085	-	12.4	20	66	0
1260-3	0.06	0.053	-	11.7	20	66	0
1260-4	0.13	0.113	-	13.1	20	65	0
1260-5	0.091	0.079	-	13.2	20	65	0

* Value outside of QC limits.

Calibration Verification Summary
Form 7
PCBs

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Instrument ID	: PEST2	**Calibration Date**	: 06/27/24 13:30
Lab File ID	: P2240627a-34	**Init. Calib. Date(s)**	: 05/06/24 05/07/24
Sample No	: WG1940092-5	**Init. Calib. Times**	: 20:49 15:31
Channel	: B		

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
1660_1br2nb #2	1	1	-	0	20	93	0
2,4,5,6-Tetrachloro-m-xylen	1.232	1.195	-	3	20	72	0
Decachlorobiphenyl #2	0.58	0.819	-	-41.2*	20	111	-.01
1016-1 #2	0.021	0.02	-	4.8	20	73	0
1016-2 #2	0.046	0.045	-	2.2	20	73	0
1016-3 #2	0.092	0.087	-	5.4	20	72	0
1016-4 #2	0.034	0.034	-	0	20	73	0
1016-5 #2	0.029	0.031	-	-6.9	20	80	0
1260-1 #2	0.054	0.044	-	18.5	20	68	0
1260-2 #2	0.062	0.068	-	-9.7	20	88	0
1260-3 #2	0.048	0.055	-	-14.6	20	89	-.01
1260-4 #2	0.096	0.11	-	-14.6	20	89	0
1260-5 #2	0.066	0.078	-	-18.2	20	89	-.01

* Value outside of QC limits.

Evaluate Continuing Calibration Report

Data Path : I:\PCB\Pest2\2024\240627A\
Data File : P2240627a-02.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 27 Jun 2024 5:39
Operator : pest2:mhg
Sample : WG1940092-1,42,,+1660 pp11597 lvi ccv (Sig #1); +1660 pp11597 lvi ccv (Sig #2)
Misc : WG1940092,,ical21102
ALS Vial : 2 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 27 05:48:56 2024
Quant Method : I:\PCB\Pest2\2024\240627A\P2_pcb_05_06_24_LVI_ugL_ICAL21102.m
Quant Title : pcb
QLast Update : Wed May 08 09:27:21 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
1	i	1660_1br2nb	^	1.000	1.000	0.0	93	0.00
2	s	2,4,5,6-Tetrachloro-m-xylen		1.311	1.307	0.3	74	0.00
3	s	Decachlorobiphenyl		0.847	0.872	-3.0	78	0.00
4	l1	1016-1		0.022	0.020	9.1	70	0.00
5	l1	1016-2		0.049	0.046	6.1	71	0.00
6	l1	1016-3		0.101	0.095	5.9	70	0.00
7	l1	1016-4		0.040	0.037	7.5	69	0.00
8	l1	1016-5		0.045	0.040	11.1	68	0.00
9	l2	1260-1		0.065	0.056	13.8	67	0.00
10	l2	1260-2		0.097	0.085	12.4	67	0.00
11	l2	1260-3		0.060	0.052	13.3	65	0.00
12	l2	1260-4		0.130	0.114	12.3	66	0.00
13	l2	1260-5		0.091	0.079	13.2	66	0.00
52	i	1660_1br2nb #2	^	1.000	1.000	0.0	90	0.00
53	s	2,4,5,6-Tetrachloro-m-xylen		1.232	1.238	-0.5	72	0.00
54	s	Decachlorobiphenyl #2		0.580	0.797	-37.4#	104	-0.01
55	l1	1016-1 #2		0.021	0.021	0.0	72	0.00
56	l1	1016-2 #2		0.046	0.046	0.0	73	0.00
57	l1	1016-3 #2		0.092	0.090	2.2	72	-0.01
58	l1	1016-4 #2		0.034	0.035	-2.9	73	-0.01
59	l1	1016-5 #2		0.029	0.029	0.0	74	-0.01
60	l2	1260-1 #2		0.054	0.045	16.7	67	-0.01
61	l2	1260-2 #2		0.062	0.066	-6.5	84	-0.01
62	l2	1260-3 #2		0.048	0.053	-10.4	82	-0.01
63	l2	1260-4 #2		0.096	0.106	-10.4	82	-0.01
64	l2	1260-5 #2		0.066	0.075	-13.6	84	-0.01

Evaluate Continuing Calibration Report - Not Founds

Evaluate Continuing Calibration Report

Data Path : I:\PCB\Pest2\2024\240627A\
Data File : P2240627a-02.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 27 Jun 2024   5:39
Operator : pest2:mhg
Sample   : WG1940092-1,42,,+1660 pp11597 lvi ccv (Sig #1); +1660 pp11597 lvi ccv (Sig #2)
Misc   : WG1940092,,ical21102
ALS Vial : 2 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 27 05:48:56 2024
Quant Method : I:\PCB\Pest2\2024\240627A\P2_pcb_05_06_24_LVI_ugL_ICAL21102.m
Quant Title : pcb
QLast Update : Wed May 08 09:27:21 2024
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

Compound	AvgRF	CCRF	%Dev	Area% Dev(Min)

* Evaluation of CC level amount vs concentration.
(#) = Out of Range SPCC's out = 0 CCC's out = 0
(^) = ISTD area calculated using ICAL average

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240627A\
Data File : P2240627a-02.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 27 Jun 2024 5:39
Operator : pest2:mhg
Sample : WG1940092-1,42,,+1660 pp11597 lvi ccv (Sig #1); +1660 pp11597 lvi ccv (Sig #2)
Misc : WG1940092,,ical21102
ALS Vial : 2 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 27 05:48:56 2024
Quant Method : I:\PCB\Pest2\2024\240627A\P2_pcb_05_06_24_LVI_ugL_ICAL21102.m
Quant Title : pcb
QLast Update : Wed May 08 09:27:21 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : 1660 - 1660

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1660_1br2nb	1.158	1.225	387.0E6	277.9E6	25.000M4	25.000M4
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	1.442	1.598	323.6E6	220.2E6	15.949M3	16.081
	Spiked Amount	20.000	Range 30 - 150		Recovery =	79.75%	80.40%
3) s	Decachlorobi	4.013	4.522	432.1E6	283.6E6	32.957M4	43.982
	Spiked Amount	20.000	Range 30 - 150		Recovery =	164.79%#	219.91%#
	Target Compounds						
4) l1	1016-1	1.580	1.799	78216642	57410675	225.169M4	245.441
5) l1	1016-2	1.721	1.968	177.2E6	127.7E6	232.757M1	248.559M4
6) l1	1016-3	1.910	2.168	368.0E6	250.2E6	235.104M4	243.446M4
7) l1	1016-4	1.965	2.228	142.0E6	97058361	227.576M1	255.352M3
8) l1	1016-5	2.135	2.438	153.8E6	81922220	222.056M4	254.284M4
	Sum 1016-1			919.2E6	614.3E6	1142.662	1247.082
	Average 1016-1					228.532	249.416
9) l2	1260-1	2.678	3.048	218.3E6	124.8E6	218.432M4	208.008M4
10) l2	1260-2	2.808	3.148	330.6E6	184.5E6	219.530M4	268.721M4
11) l2	1260-3	3.124	3.540	200.0E6	146.7E6	213.740M4	275.520M4

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240627A\
Data File : P2240627a-02.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 27 Jun 2024 5:39
Operator : pest2:mhg
Sample : WG1940092-1,42,,+1660 pp11597 lvi ccv (Sig #1); +1660 pp11597 lvi ccv (Sig #2)
Misc : WG1940092,,ical21102
ALS Vial : 2 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 27 05:48:56 2024
Quant Method : I:\PCB\Pest2\2024\240627A\P2_pcb_05_06_24_LVI_ugL_ICAL21102.m
Quant Title : pcb
QLast Update : Wed May 08 09:27:21 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : 1660 - 1660

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
12) l2 1260-4	3.280	3.670	439.8E6	295.0E6	219.363M4	275.717M4
13) l2 1260-5	3.428	3.872	305.8E6	209.0E6	217.600M1	284.892
Sum 1260-1			1494.5E6	960.0E6	1088.665	1312.858
Average 1260-1					217.733	262.572
Sum 1221-2			0	0	N.D.	N.D.
Average 1221-2					0.000	0.000
Sum 1254-1			0	0	N.D.	N.D.
Average 1254-1					0.000	0.000
Sum 1242-1			0	0	N.D.	N.D.
Average 1242-1					0.000	0.000
Sum 1268-1			0	0	N.D.	N.D.
Average 1268-1					0.000	0.000
Sum 1248-1			0	0	N.D.	N.D.
Average 1248-1					0.000	0.000
Sum 1232-1			0	0	N.D.	N.D.
Average 1232-1					0.000	0.000
Sum 1262-1			0	0	N.D.	N.D.
Average 1262-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum 1262-1			0	0	N.D.	N.D.
Average 1262-1					0.000	0.000

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240627A\
Data File : P2240627a-02.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 27 Jun 2024 5:39
Operator : pest2:mhg
Sample : WG1940092-1,42,,+1660 pp11597 lvi ccv (Sig #1); +1660 pp11597 lvi ccv (Sig #2)
Misc : WG1940092,,ical21102
ALS Vial : 2 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 27 05:48:56 2024
Quant Method : I:\PCB\Pest2\2024\240627A\P2_pcb_05_06_24_LVI_ugL_ICAL21102.m
Quant Title : pcb
QLast Update : Wed May 08 09:27:21 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : 1660 - 1660

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l

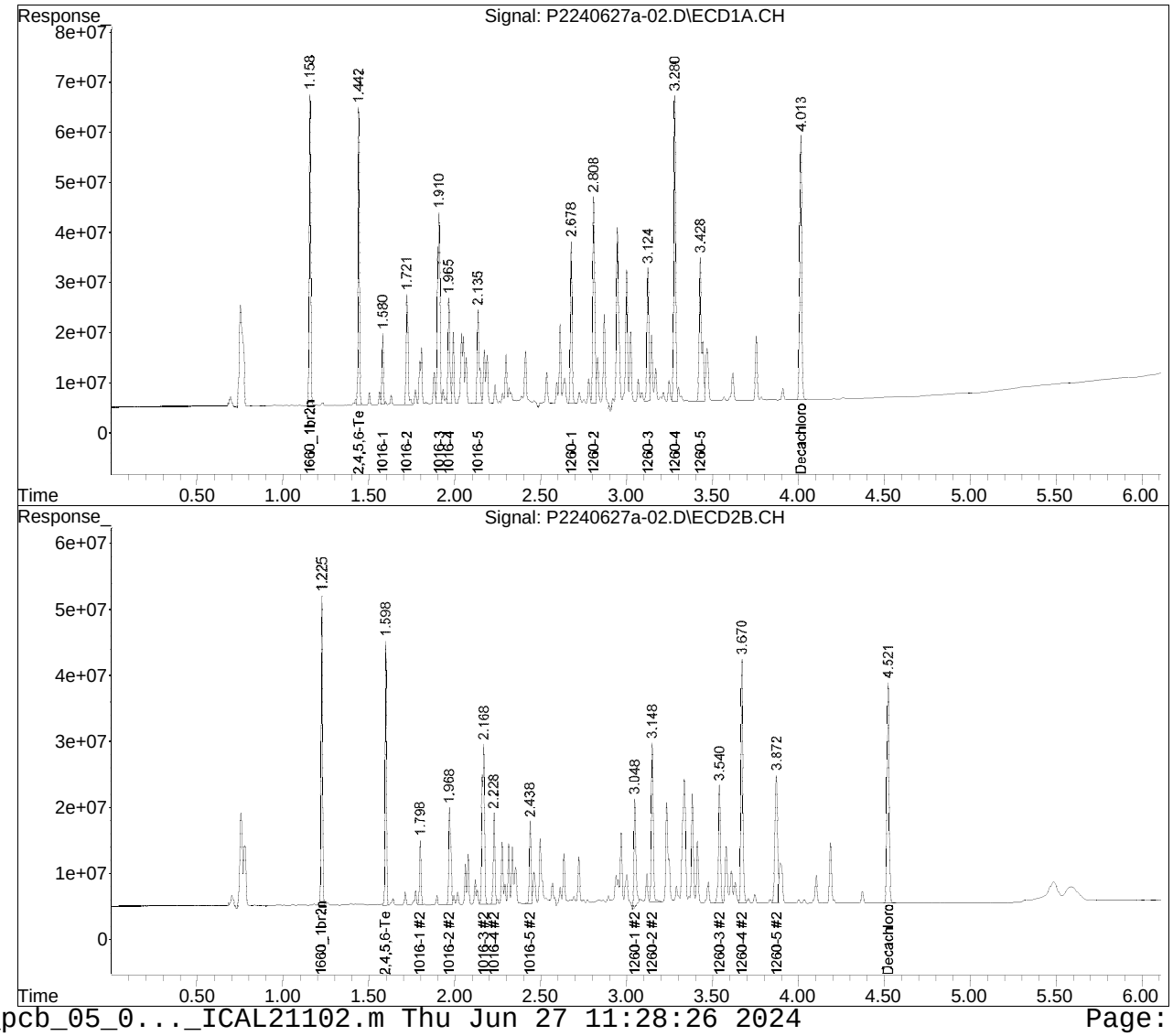
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : 1660 - 1660ation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240627A\
Data File : P2240627a-02.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 27 Jun 2024 5:39
Operator : pest2:mhg
Sample : WG1940092-1,42,,+1660 pp11597 lvi ccv (Sig #1); +1660 pp11597 lvi
Misc : WG1940092,,ical21102
ALS Vial : 2 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 27 05:48:56 2024
Quant Method : I:\PCB\Pest2\2024\240627A\P2_pcb_05_06_24_LVI_ugL_ICAL21102.m
Quant Title : pcb
QLast Update : Wed May 08 09:27:21 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

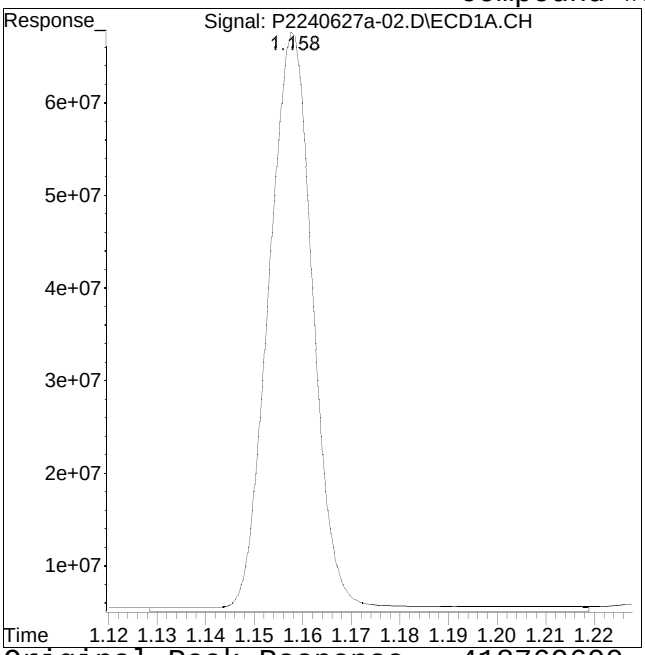
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

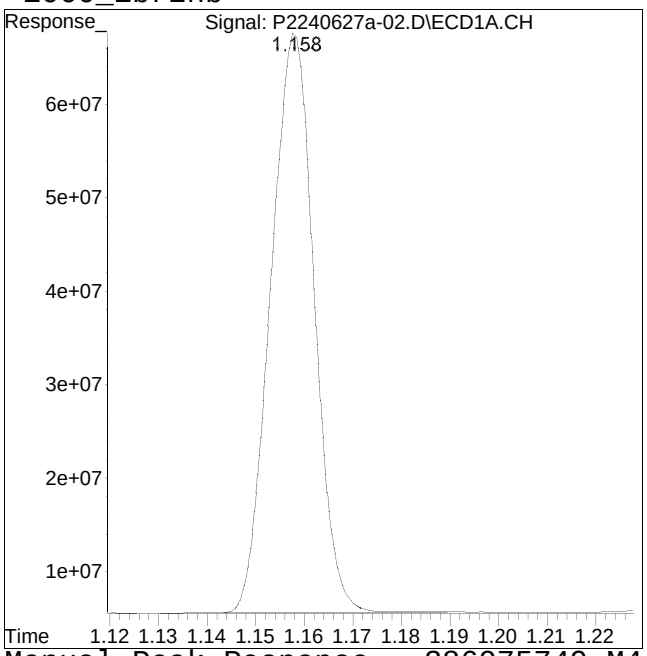


Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240627A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240627a-02.D Operator : pest2:mhg
Date Inj'd : 6/27/2024 5:39 Instrument : Pest 2
Sample : WG1940092-1,42,,+1660 pp11Quant Date : 6/27/2024 5:48 am

Compound #1: 1660_1br2nb



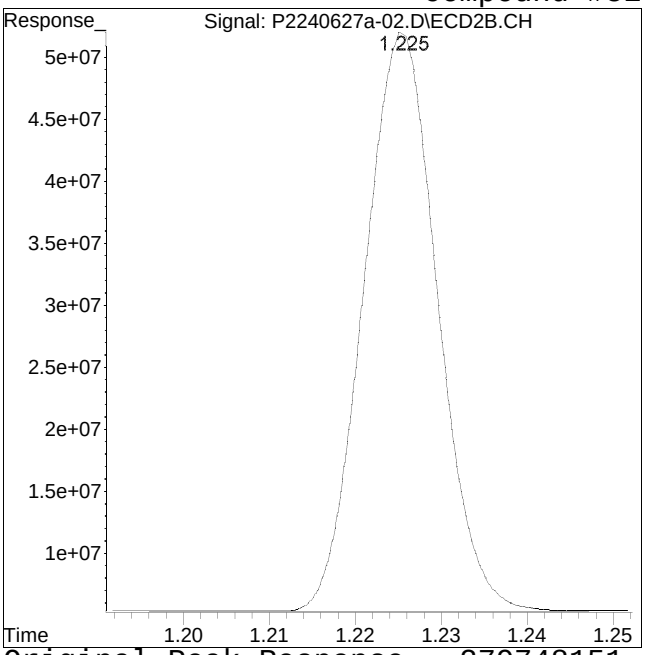


Original Peak Response = 418769600 Manual Peak Response = 386975749 M4
M4 = Poor automated baseline construction.

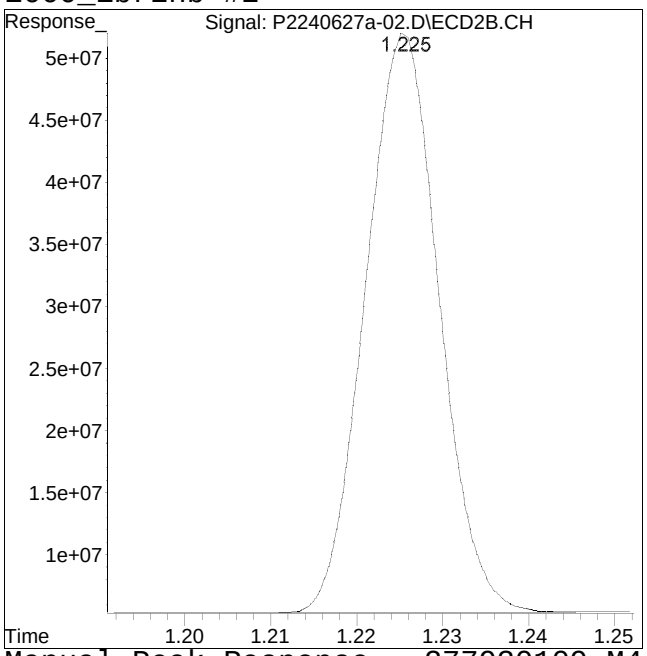
Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240627A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240627a-02.D Operator : pest2:mhg
Date Inj'd : 6/27/2024 5:39 Instrument : Pest 2
Sample : WG1940092-1,42,,+1660 pp11Quant Date : 6/27/2024 5:48 am

Compound #52: 1660_1br2nb #2



Original Peak Response = 279748151

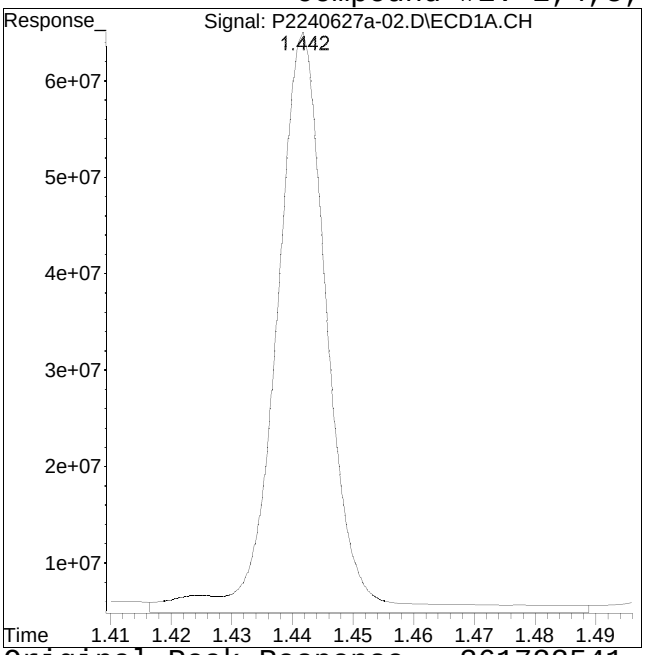


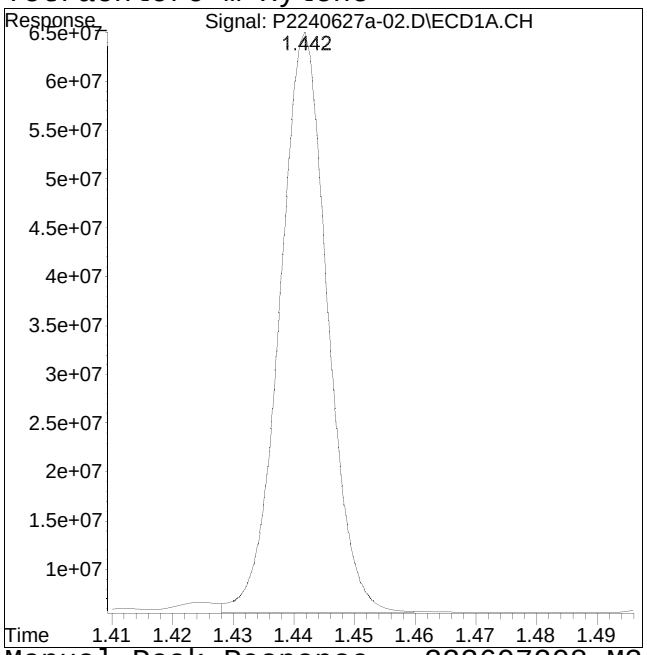
Manual Peak Response = 277930109 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240627A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240627a-02.D Operator : pest2:mhg
Date Inj'd : 6/27/2024 5:39 Instrument : Pest 2
Sample : WG1940092-1,42,,+1660 pp11Quant Date : 6/27/2024 5:48 am

Compound #2: 2,4,5,6-Tetrachloro-m-xylene



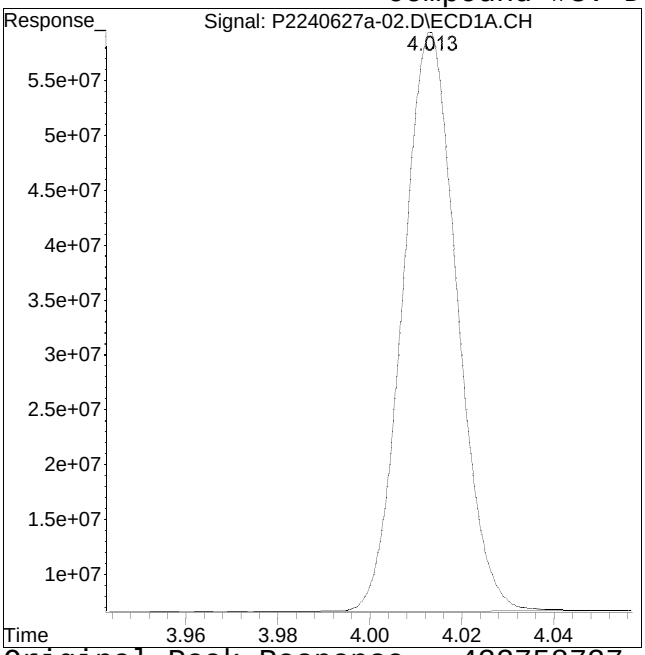


Original Peak Response = 361722541 Manual Peak Response = 323607208 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

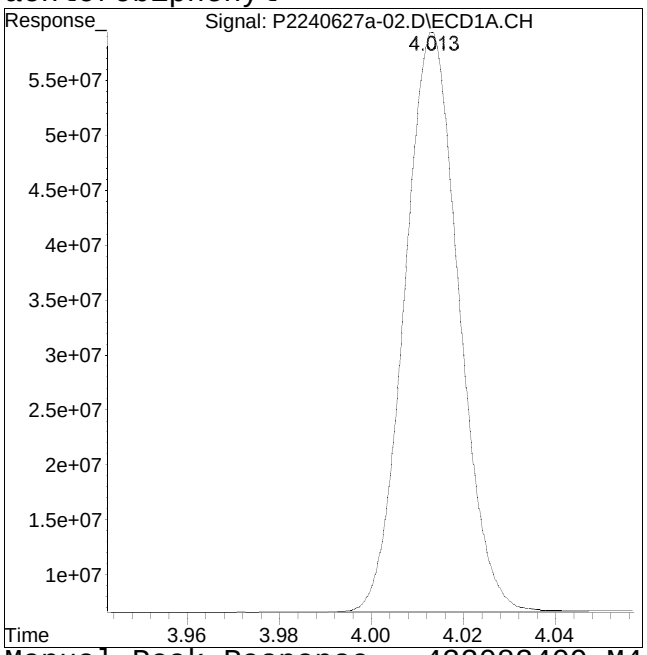
Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240627A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240627a-02.D Operator : pest2:mhg
Date Inj'd : 6/27/2024 5:39 Instrument : Pest 2
Sample : WG1940092-1,42,,+1660 pp11Quant Date : 6/27/2024 5:48 am

Compound #3: Decachlorobiphenyl



Original Peak Response = 433758737



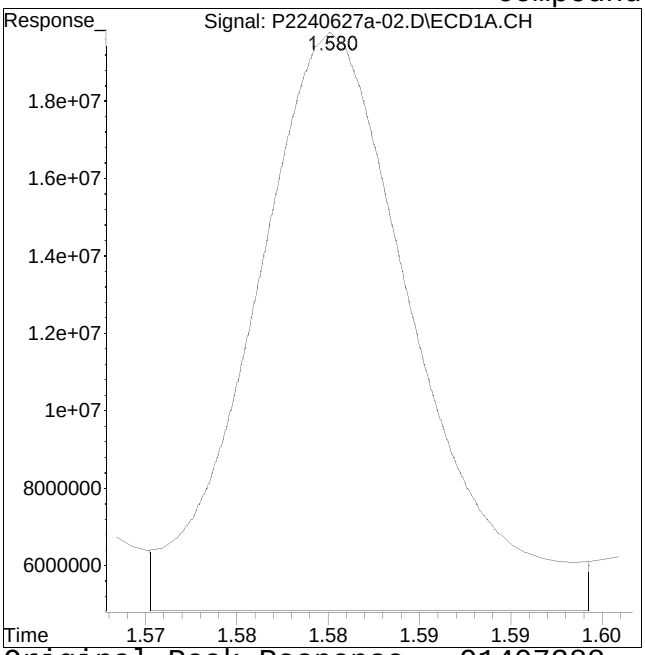
Manual Peak Response = 432083409 M4

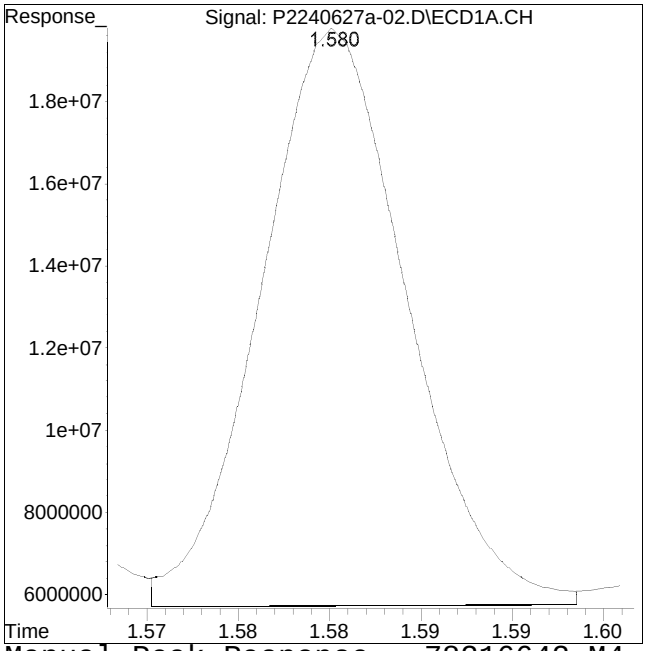
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240627A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240627a-02.D Operator : pest2:mhg
Date Inj'd : 6/27/2024 5:39 Instrument : Pest 2
Sample : WG1940092-1,42,,+1660 pp11Quant Date : 6/27/2024 5:48 am

Compound #4: 1016-1



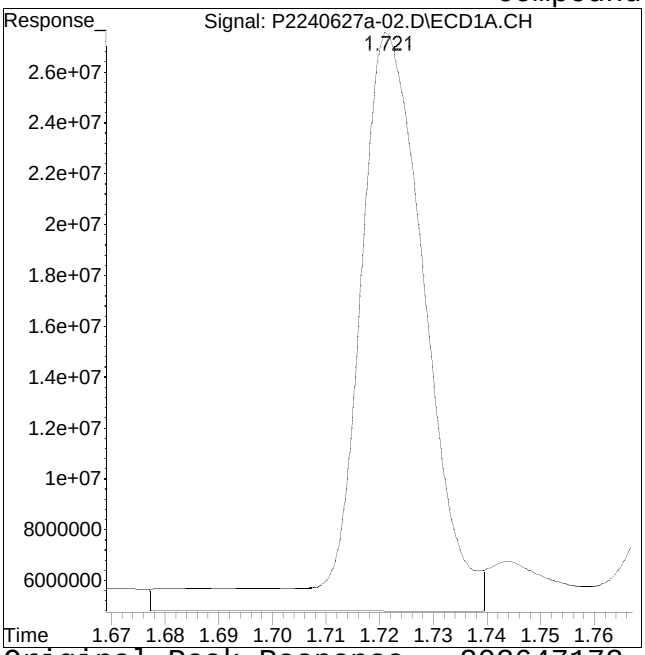


Original Peak Response = 91407388 Manual Peak Response = 78216642 M4
M4 = Poor automated baseline construction.

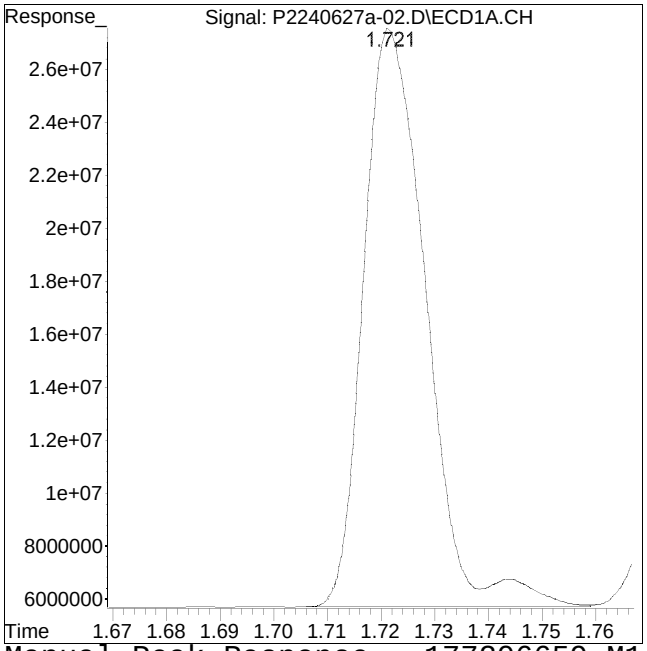
Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240627A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240627a-02.D Operator : pest2:mhg
Date Inj'd : 6/27/2024 5:39 Instrument : Pest 2
Sample : WG1940092-1,42,,+1660 pp11Quant Date : 6/27/2024 5:48 am

Compound #5: 1016-2



Original Peak Response = 203647173



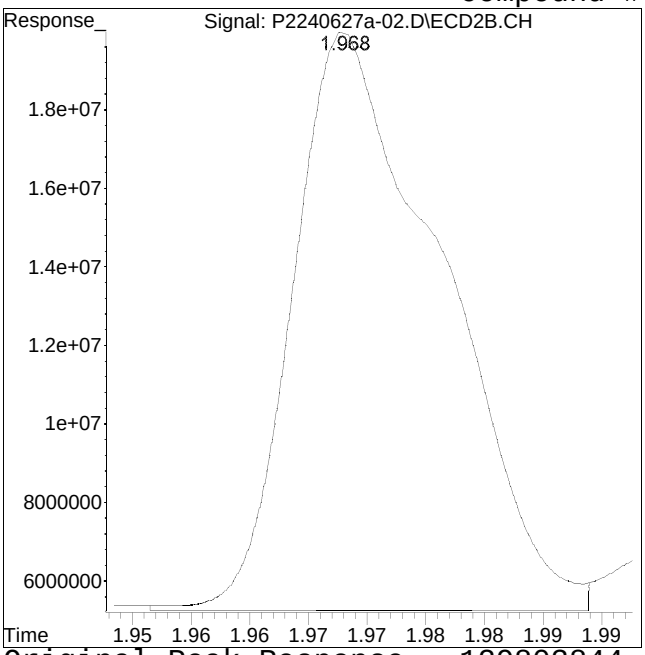
Manual Peak Response = 177206659 M1

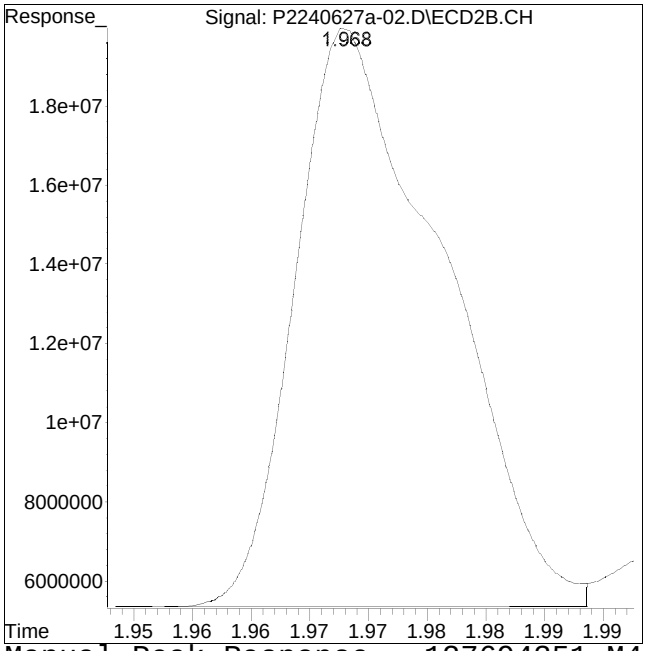
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240627A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240627a-02.D Operator : pest2:mhg
Date Inj'd : 6/27/2024 5:39 Instrument : Pest 2
Sample : WG1940092-1,42,,+1660 pp11Quant Date : 6/27/2024 5:48 am

Compound #56: 1016-2 #2



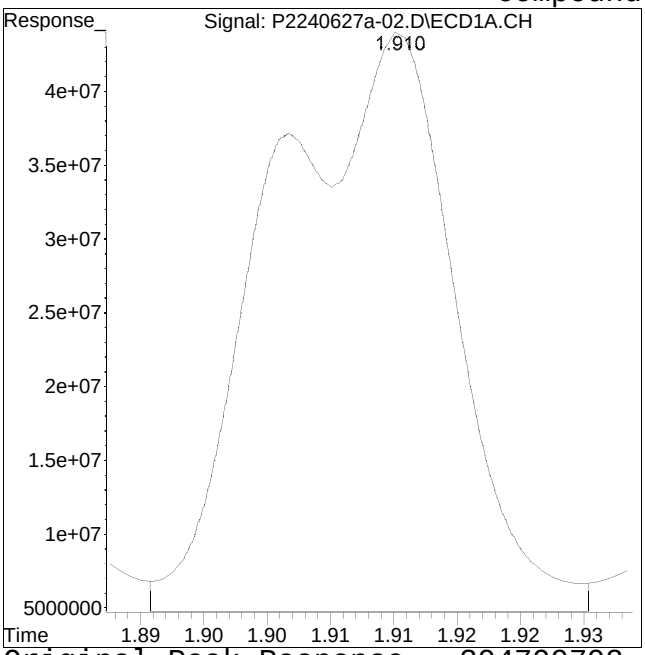


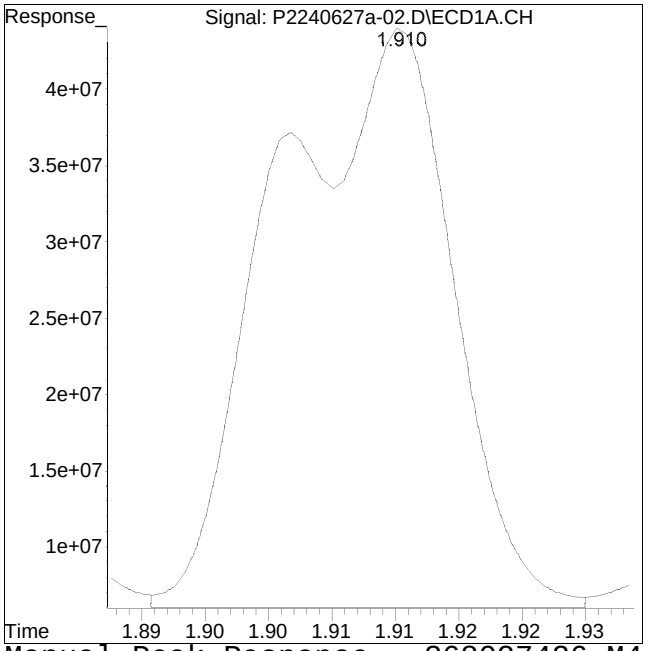
Original Peak Response = 129803844 Manual Peak Response = 127694351 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240627A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240627a-02.D Operator : pest2:mhg
Date Inj'd : 6/27/2024 5:39 Instrument : Pest 2
Sample : WG1940092-1,42,,+1660 pp11Quant Date : 6/27/2024 5:48 am

Compound #6: 1016-3



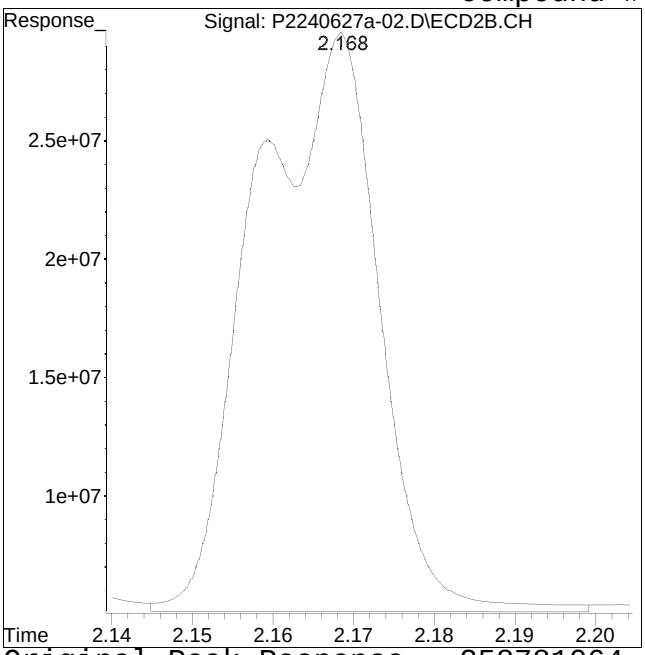


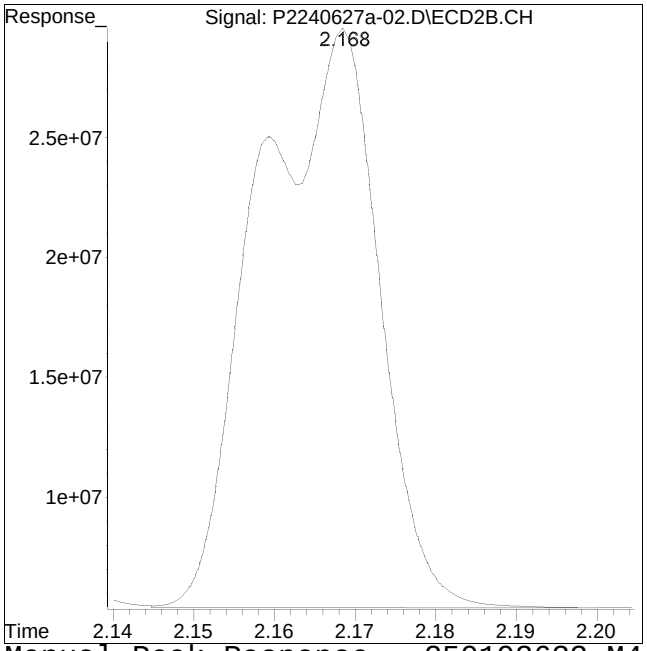
Original Peak Response = 394799792 Manual Peak Response = 368027426 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240627A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240627a-02.D Operator : pest2:mhg
Date Inj'd : 6/27/2024 5:39 Instrument : Pest 2
Sample : WG1940092-1,42,,+1660 pp11Quant Date : 6/27/2024 5:48 am

Compound #57: 1016-3 #2



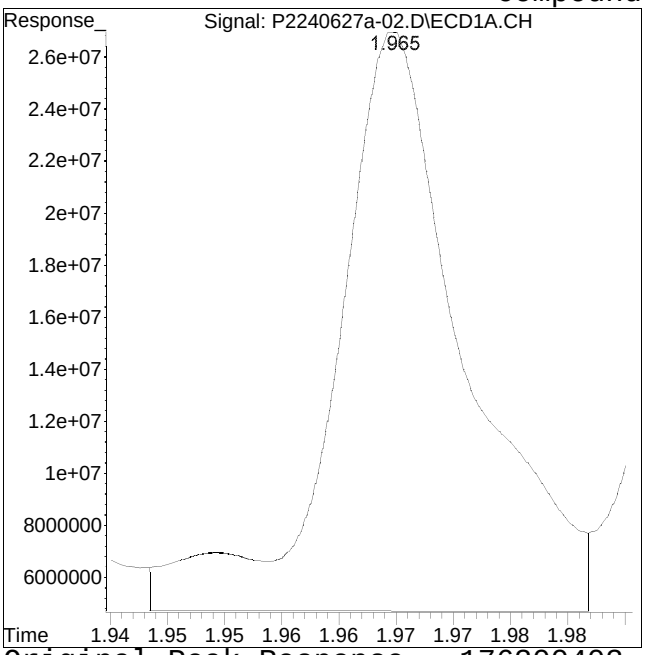


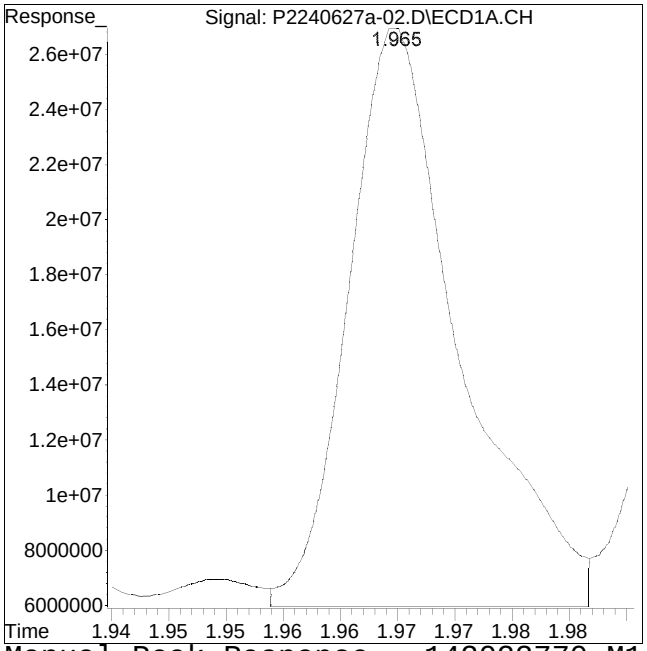
Original Peak Response = 258781064 Manual Peak Response = 250193633 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240627A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240627a-02.D Operator : pest2:mhg
Date Inj'd : 6/27/2024 5:39 Instrument : Pest 2
Sample : WG1940092-1,42,,+1660 pp11Quant Date : 6/27/2024 5:48 am

Compound #7: 1016-4



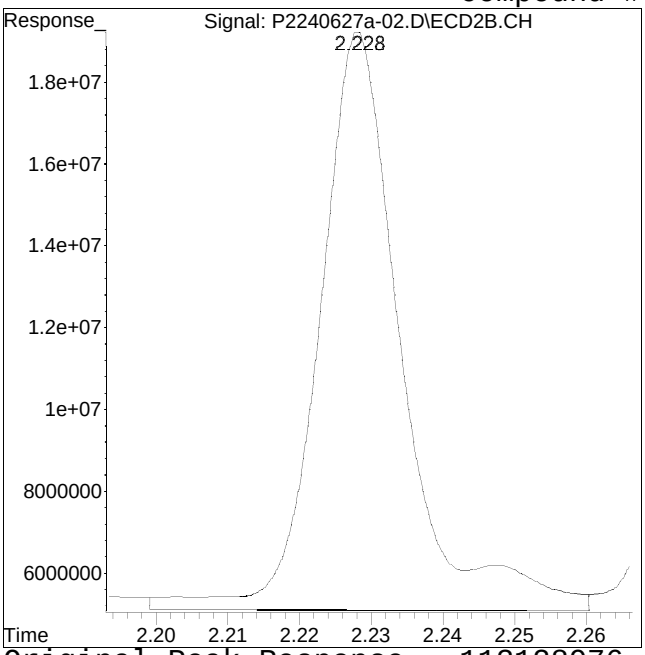


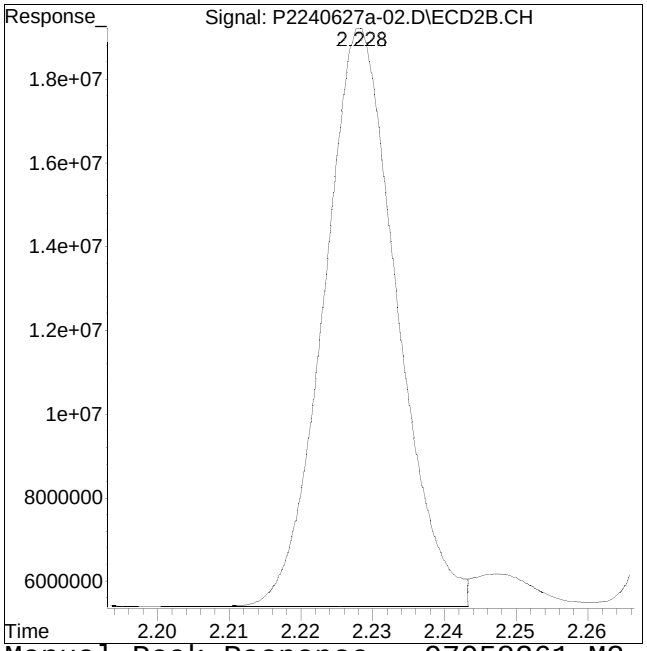
Original Peak Response = 176300403 Manual Peak Response = 142023770 M1
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240627A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240627a-02.D Operator : pest2:mhg
Date Inj'd : 6/27/2024 5:39 Instrument : Pest 2
Sample : WG1940092-1,42,,+1660 pp11Quant Date : 6/27/2024 5:48 am

Compound #58: 1016-4 #2



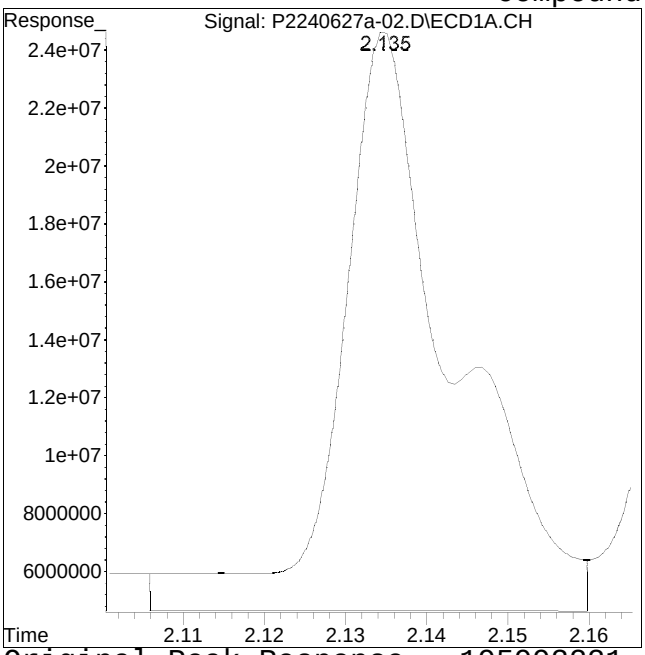


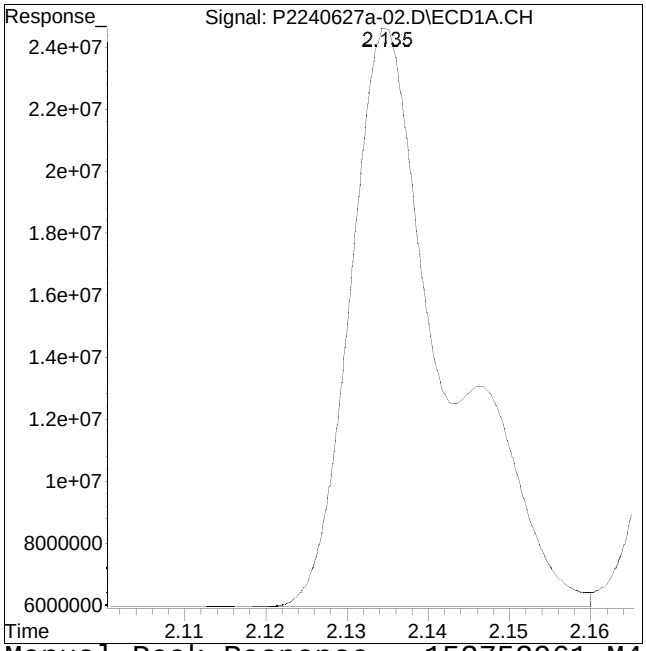
Original Peak Response = 113128976 Manual Peak Response = 97058361 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240627A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240627a-02.D Operator : pest2:mhg
Date Inj'd : 6/27/2024 5:39 Instrument : Pest 2
Sample : WG1940092-1,42,,+1660 pp11Quant Date : 6/27/2024 5:48 am

Compound #8: 1016-5



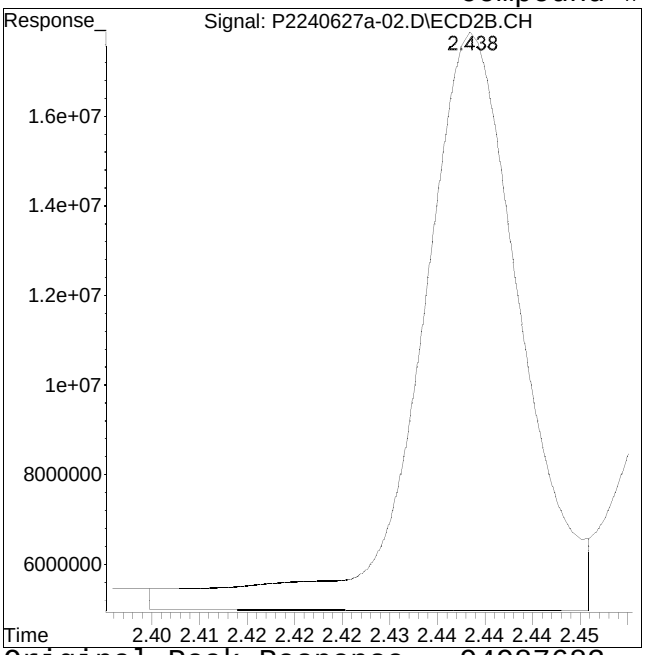


Original Peak Response = 195992221 Manual Peak Response = 153752961 M4
M4 = Poor automated baseline construction.

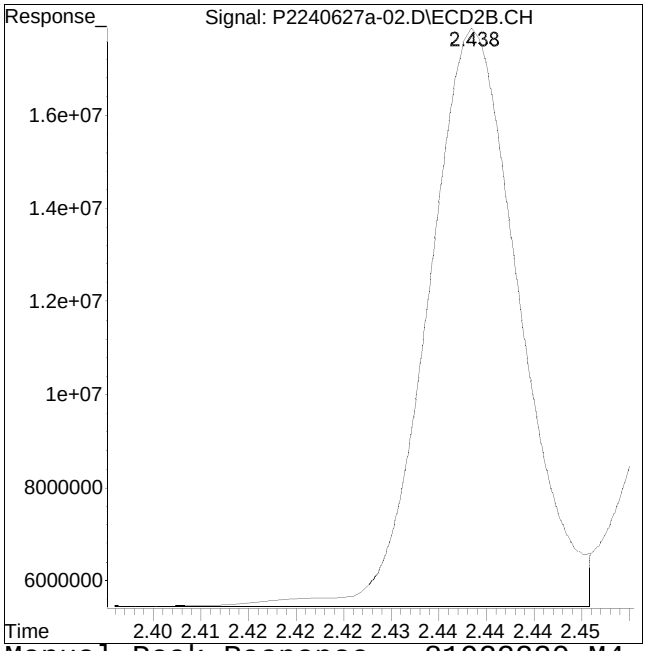
Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240627A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240627a-02.D Operator : pest2:mhg
Date Inj'd : 6/27/2024 5:39 Instrument : Pest 2
Sample : WG1940092-1,42,,+1660 pp11Quant Date : 6/27/2024 5:48 am

Compound #59: 1016-5 #2



Original Peak Response = 94987683



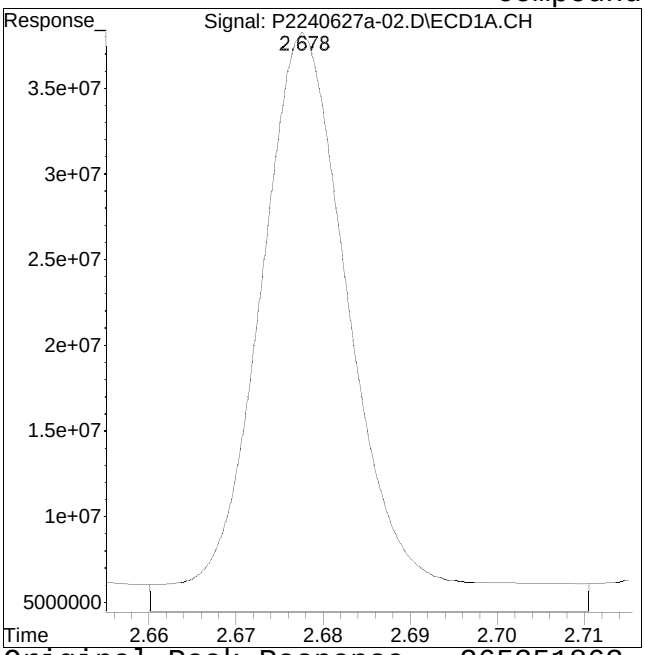
Manual Peak Response = 81922220 M4

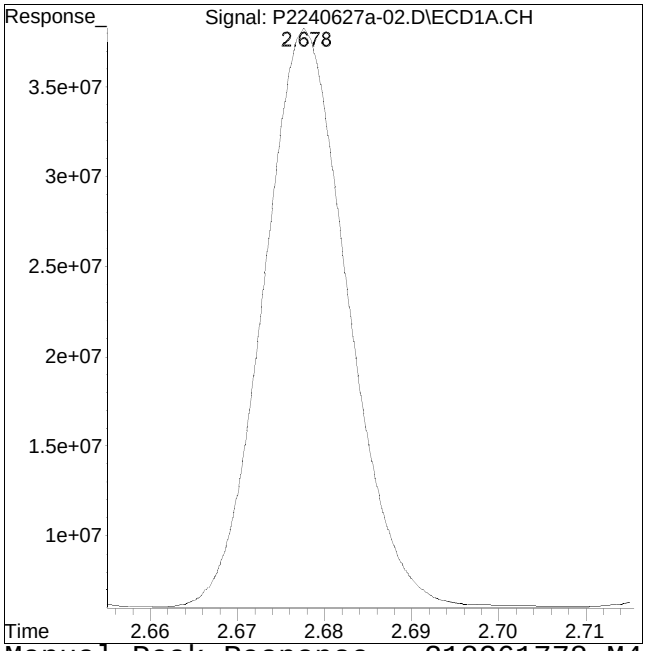
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240627A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240627a-02.D Operator : pest2:mhg
Date Inj'd : 6/27/2024 5:39 Instrument : Pest 2
Sample : WG1940092-1,42,,+1660 pp11Quant Date : 6/27/2024 5:48 am

Compound #9: 1260-1



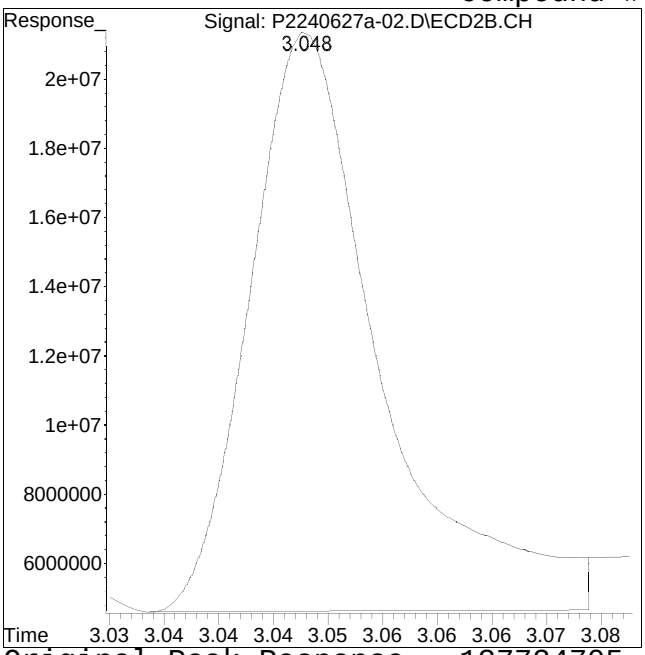


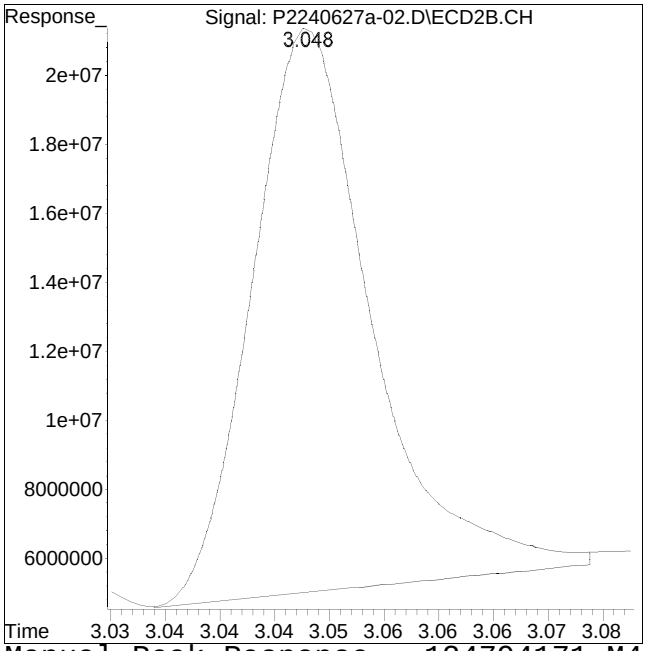
Original Peak Response = 265351863 Manual Peak Response = 218261778 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240627A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240627a-02.D Operator : pest2:mhg
Date Inj'd : 6/27/2024 5:39 Instrument : Pest 2
Sample : WG1940092-1,42,,+1660 pp11Quant Date : 6/27/2024 5:48 am

Compound #60: 1260-1 #2



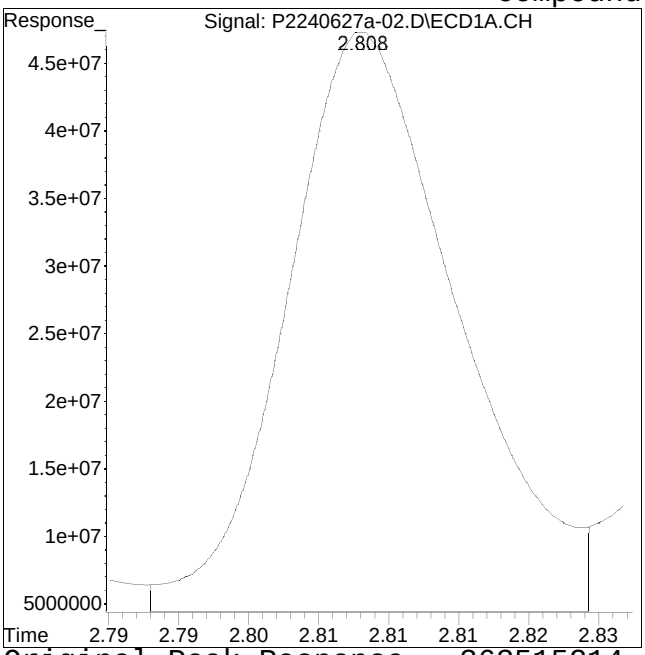


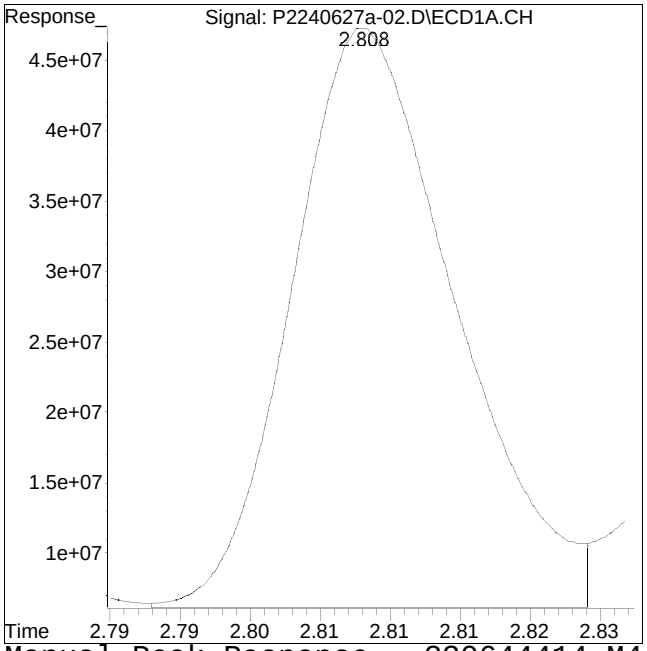
Original Peak Response = 137724705 Manual Peak Response = 124794171 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240627A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240627a-02.D Operator : pest2:mhg
Date Inj'd : 6/27/2024 5:39 Instrument : Pest 2
Sample : WG1940092-1,42,,+1660 pp11Quant Date : 6/27/2024 5:48 am

Compound #10: 1260-2



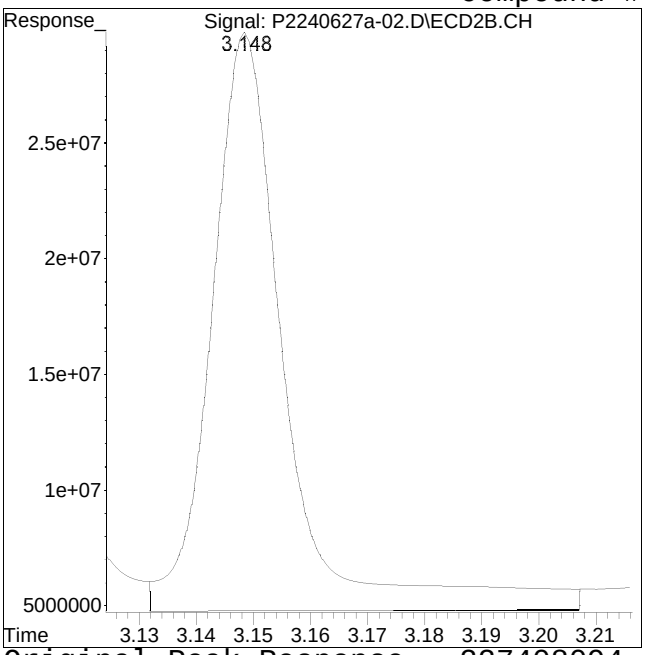


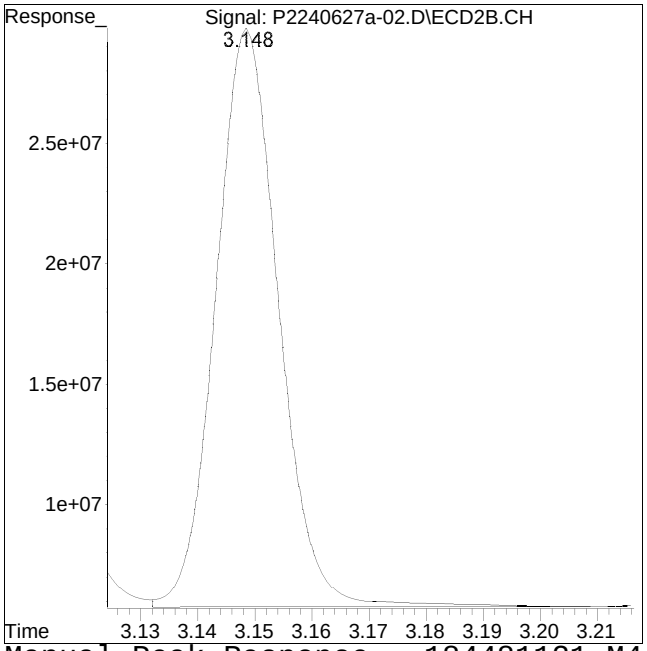
Original Peak Response = 363515214 Manual Peak Response = 330644414 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240627A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240627a-02.D Operator : pest2:mhg
Date Inj'd : 6/27/2024 5:39 Instrument : Pest 2
Sample : WG1940092-1,42,,+1660 pp11Quant Date : 6/27/2024 5:48 am

Compound #61: 1260-2 #2



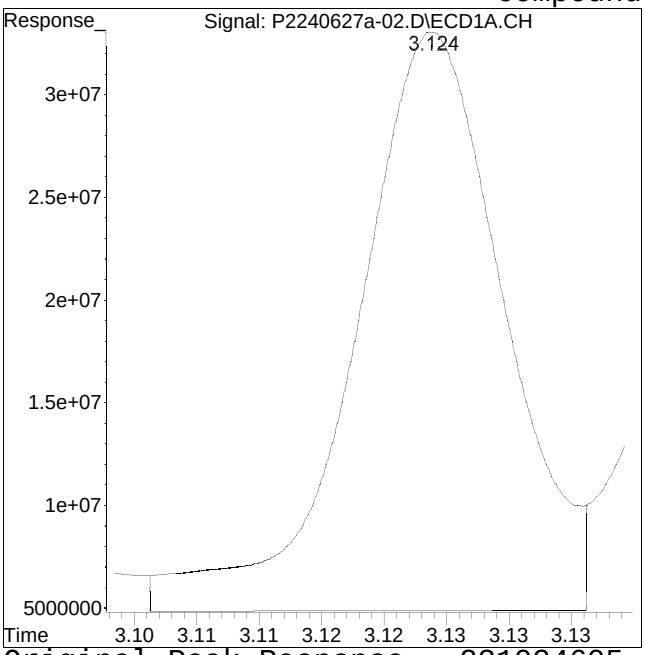


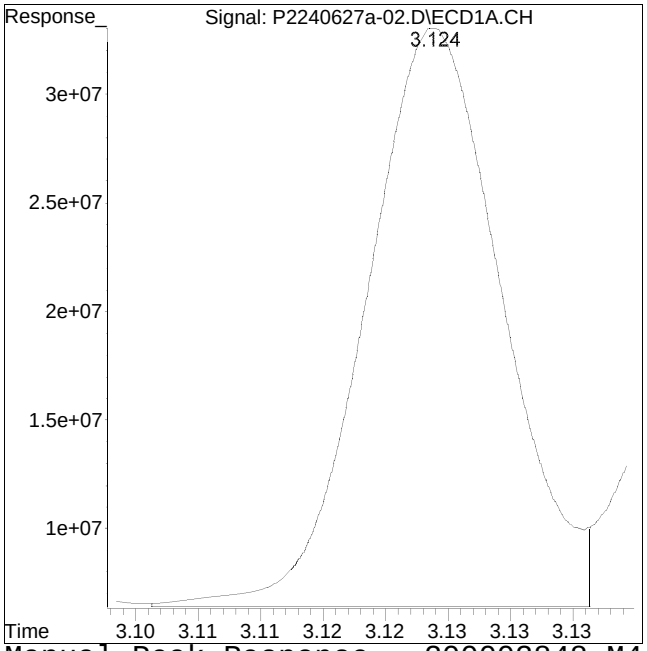
Original Peak Response = 227408094 Manual Peak Response = 184481121 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240627A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240627a-02.D Operator : pest2:mhg
Date Inj'd : 6/27/2024 5:39 Instrument : Pest 2
Sample : WG1940092-1,42,,+1660 pp11Quant Date : 6/27/2024 5:48 am

Compound #11: 1260-3



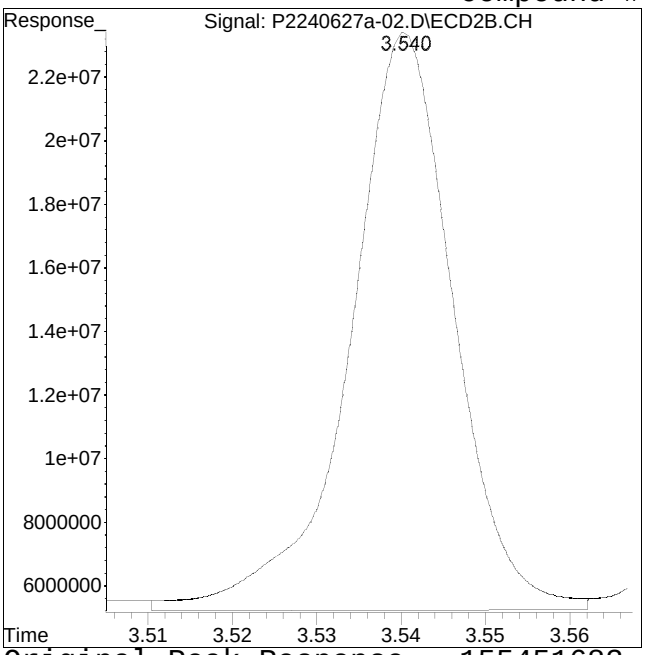


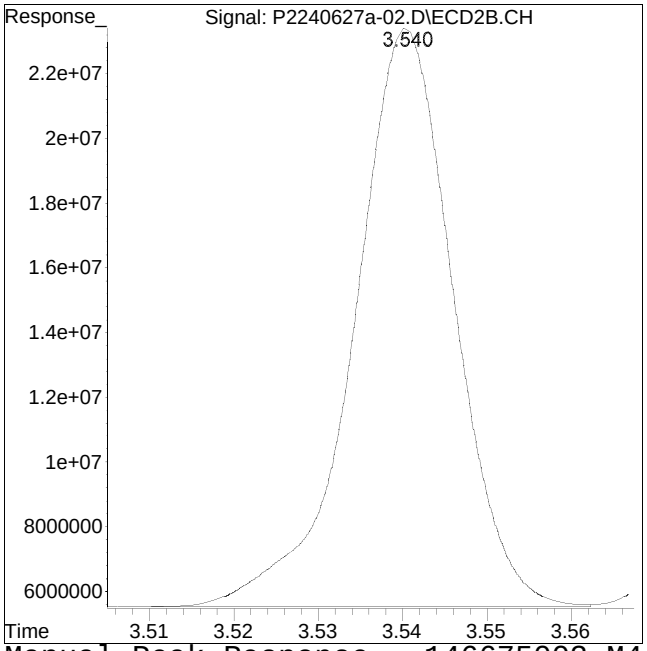
Original Peak Response = 231024605 Manual Peak Response = 200003848 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240627A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240627a-02.D Operator : pest2:mhg
Date Inj'd : 6/27/2024 5:39 Instrument : Pest 2
Sample : WG1940092-1,42,,+1660 pp11Quant Date : 6/27/2024 5:48 am

Compound #62: 1260-3 #2



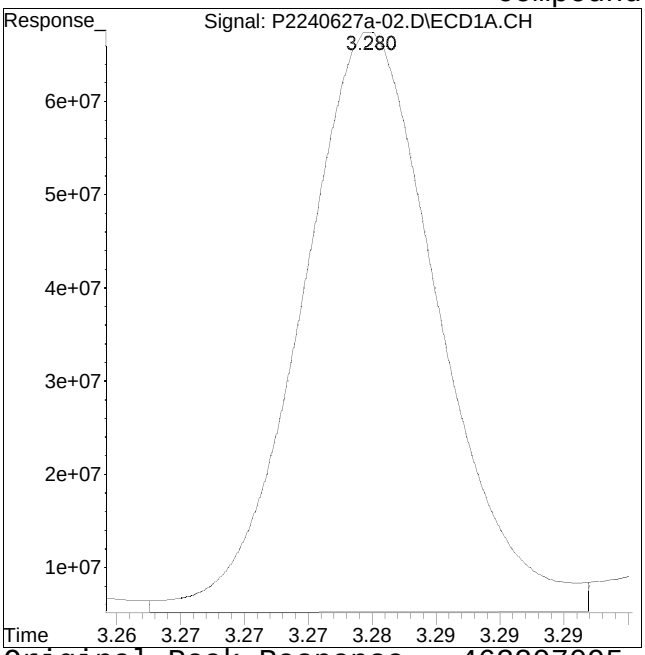


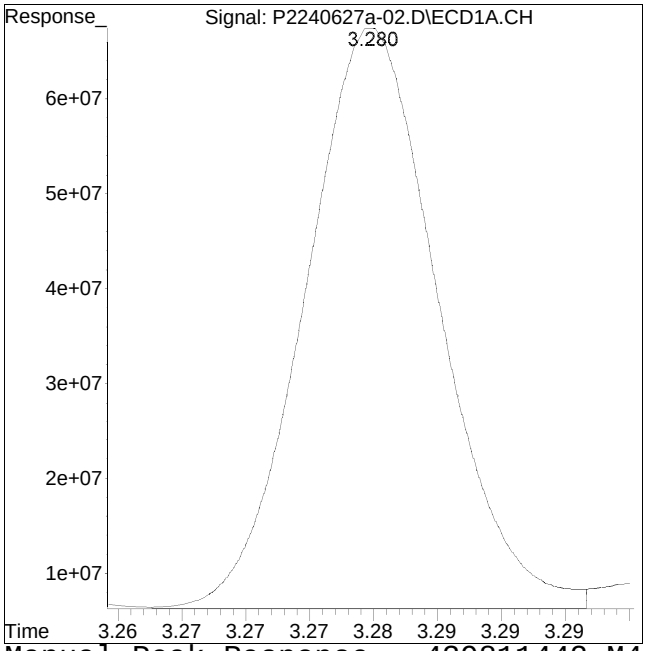
Original Peak Response = 155451683 Manual Peak Response = 146675003 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240627A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240627a-02.D Operator : pest2:mhg
Date Inj'd : 6/27/2024 5:39 Instrument : Pest 2
Sample : WG1940092-1,42,,+1660 pp11Quant Date : 6/27/2024 5:48 am

Compound #12: 1260-4



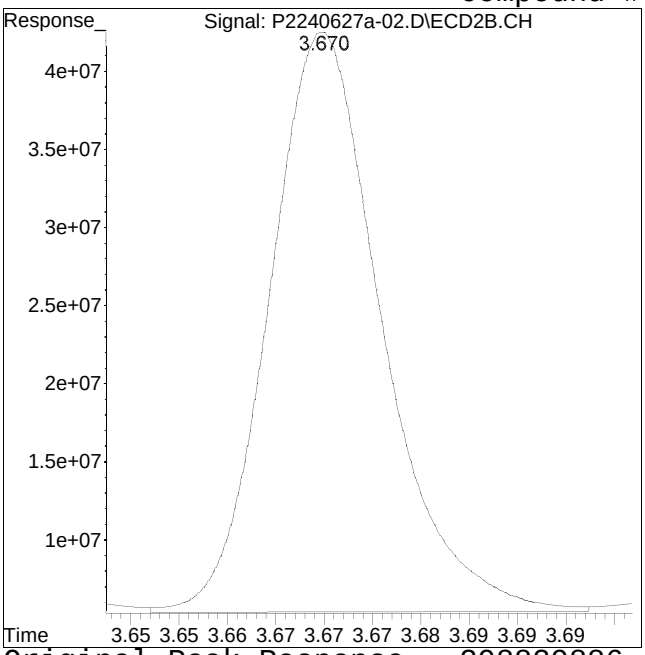


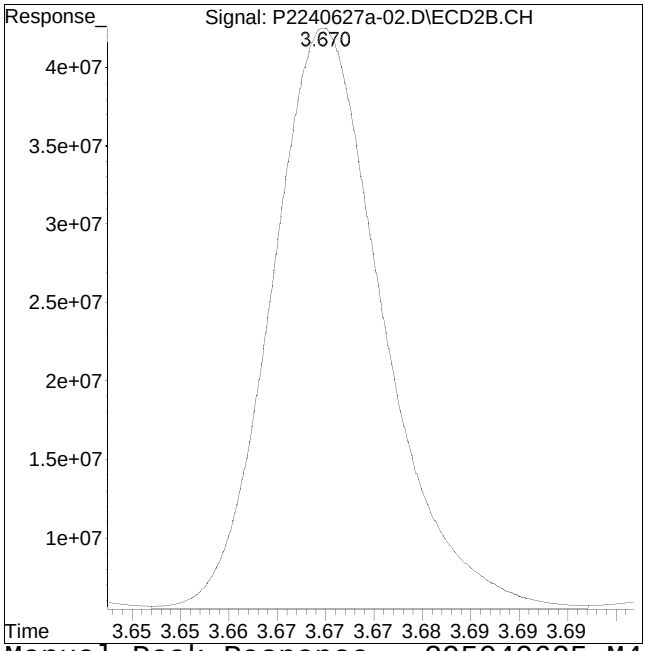
Original Peak Response = 463207095 Manual Peak Response = 439811442 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240627A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240627a-02.D Operator : pest2:mhg
Date Inj'd : 6/27/2024 5:39 Instrument : Pest 2
Sample : WG1940092-1,42,,+1660 pp11Quant Date : 6/27/2024 5:48 am

Compound #63: 1260-4 #2



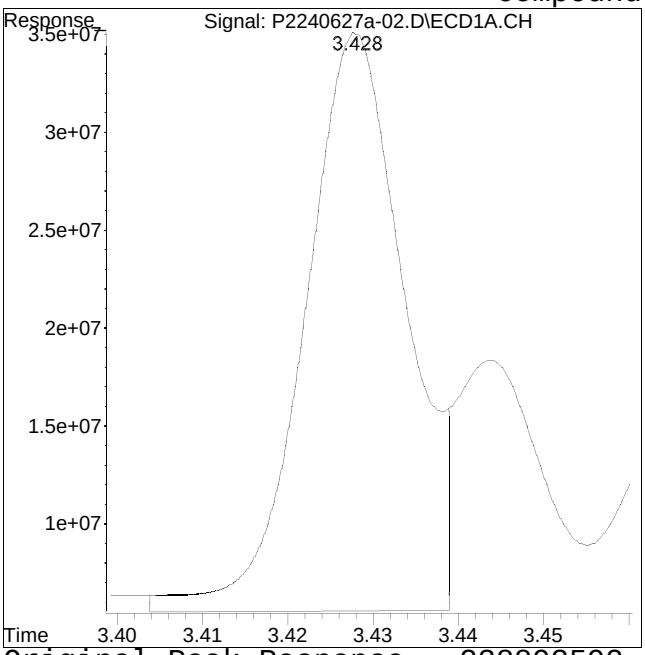


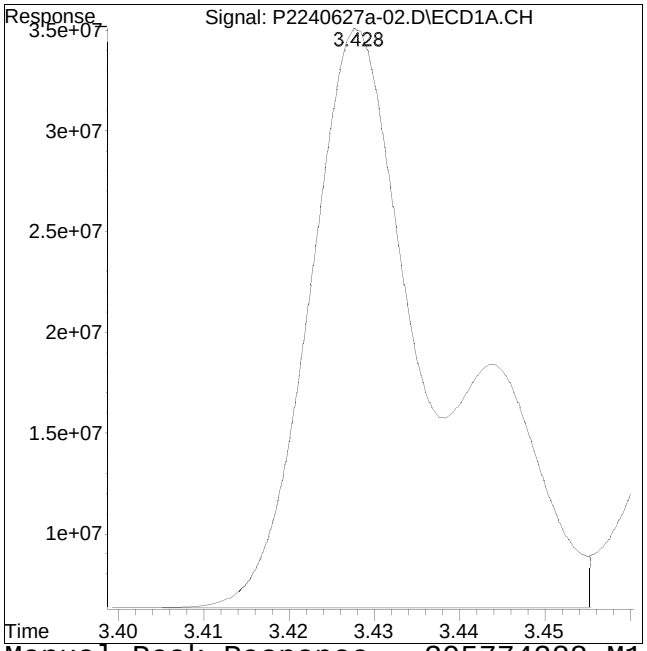
Original Peak Response = 298829886 Manual Peak Response = 295040625 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240627A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240627a-02.D Operator : pest2:mhg
Date Inj'd : 6/27/2024 5:39 Instrument : Pest 2
Sample : WG1940092-1,42,,+1660 pp11Quant Date : 6/27/2024 5:48 am

Compound #13: 1260-5





Original Peak Response = 238893592 Manual Peak Response = 305774288 M1
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Evaluate Continuing Calibration Report

Data Path : I:\PCB\Pest2\2024\240627A\
Data File : P2240627a-34.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 27 Jun 2024 13:30
Operator : pest2:mhg
Sample   : WG1940092-5,42,,+1660 pp11597 lvi ccal (Sig #1); +1660 pp11597 lvi ccal (Sig #2)
Misc   : WG1940092,,ical21102
ALS Vial : 34 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 27 13:43:02 2024
Quant Method : I:\PCB\Pest2\2024\240627A\P2_pcb_05_06_24_LVI_ugL_ICAL21102.m
Quant Title : pcb
QLast Update : Wed May 08 09:27:21 2024
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
1	i	1660_1br2nb	^	1.000	1.000	0.0	92	0.00
2	s	2,4,5,6-Tetrachloro-m-xylen		1.311	1.357	-3.5	76	0.00
3	s	Decachlorobiphenyl		0.847	0.898	-6.0	80	0.00
4	l1	1016-1		0.022	0.021	4.5	71	0.00
5	l1	1016-2		0.049	0.045	8.2	68	0.00
6	l1	1016-3		0.101	0.095	5.9	70	0.00
7	l1	1016-4		0.040	0.037	7.5	70	0.00
8	l1	1016-5		0.045	0.040	11.1	68	0.00
9	l2	1260-1		0.065	0.058	10.8	69	0.00
10	l2	1260-2		0.097	0.085	12.4	66	0.00
11	l2	1260-3		0.060	0.053	11.7	66	0.00
12	l2	1260-4		0.130	0.113	13.1	65	0.00
13	l2	1260-5		0.091	0.079	13.2	65	0.00
52	i	1660_1br2nb #2	^	1.000	1.000	0.0	93	0.00
53	s	2,4,5,6-Tetrachloro-m-xylen		1.232	1.195	3.0	72	0.00
54	s	Decachlorobiphenyl #2		0.580	0.819	-41.2#	111	-0.01
55	l1	1016-1 #2		0.021	0.020	4.8	73	0.00
56	l1	1016-2 #2		0.046	0.045	2.2	73	0.00
57	l1	1016-3 #2		0.092	0.087	5.4	72	0.00
58	l1	1016-4 #2		0.034	0.034	0.0	73	0.00
59	l1	1016-5 #2		0.029	0.031	-6.9	80	0.00
60	l2	1260-1 #2		0.054	0.044	18.5	68	0.00
61	l2	1260-2 #2		0.062	0.068	-9.7	88	0.00
62	l2	1260-3 #2		0.048	0.055	-14.6	89	-0.01
63	l2	1260-4 #2		0.096	0.110	-14.6	89	0.00
64	l2	1260-5 #2		0.066	0.078	-18.2	89	-0.01

Evaluate Continuing Calibration Report - Not Founds

Evaluate Continuing Calibration Report

Data Path : I:\PCB\Pest2\2024\240627A\
Data File : P2240627a-34.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 27 Jun 2024 13:30
Operator : pest2:mhg
Sample   : WG1940092-5,42,,+1660 pp11597 lvi ccal (Sig #1); +1660 pp11597 lvi ccal (Sig #2)
Misc   : WG1940092,,ical21102
ALS Vial : 34 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 27 13:43:02 2024
Quant Method : I:\PCB\Pest2\2024\240627A\P2_pcb_05_06_24_LVI_ugL_ICAL21102.m
Quant Title : pcb
QLast Update : Wed May 08 09:27:21 2024
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

Compound	AvgRF	CCRF	%Dev	Area% Dev(Min)

* Evaluation of CC level amount vs concentration.
(#) = Out of Range SPCC's out = 0 CCC's out = 0
(^) = ISTD area calculated using ICAL average

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240627A\
Data File : P2240627a-34.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 27 Jun 2024 13:30
Operator : pest2:mhg
Sample : WG1940092-5,42,,+1660 pp11597 lvi ccal (Sig #1); +1660 pp11597 lvi ccal (Sig #2)
Misc : WG1940092,,ical21102
ALS Vial : 34 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 27 13:43:02 2024
Quant Method : I:\PCB\Pest2\2024\240627A\P2_pcb_05_06_24_LVI_ugL_ICAL21102.m
Quant Title : pcb
QLast Update : Wed May 08 09:27:21 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : 1660 - 1660

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1660_1br2nb	1.161	1.229	384.9E6	287.7E6	25.000	25.000
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	1.445	1.602	334.2E6	220.0E6	16.559	15.526
	Spiked Amount	20.000	Range 30 - 150		Recovery =	82.80%	77.63%
3) s	Decachlorobi	4.014	4.524	442.7E6	301.5E6	33.945	45.168
	Spiked Amount	20.000	Range 30 - 150		Recovery =	169.72%#	225.84%#
	Target Compounds						
4) l1	1016-1	1.583	1.802	79747757	57622285	230.796M3	237.996
5) l1	1016-2	1.724	1.973	171.9E6	128.0E6	226.997M4	240.802
6) l1	1016-3	1.912	2.173	367.1E6	249.9E6	235.784M4	234.925
7) l1	1016-4	1.967	2.232	144.3E6	97305887	232.444M3	247.327M3
8) l1	1016-5	2.137	2.443	153.8E6	88343201	223.282M4	264.920M4
	Sum 1016-1			916.9E6	621.2E6	1149.303	1225.970
	Average 1016-1					229.861	245.194
9) l2	1260-1	2.680	3.053	222.5E6	125.6E6	223.860M4	202.242M1
10) l2	1260-2	2.810	3.153	325.6E6	195.2E6	217.297M4	274.730M4
11) l2	1260-3	3.126	3.545	202.4E6	157.9E6	217.493M4	286.482M4
12) l2	1260-4	3.281	3.675	435.2E6	317.8E6	218.231M4	286.897
13) l2	1260-5	3.429	3.876	303.1E6	223.5E6	216.843M2	294.268

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240627A\
Data File : P2240627a-34.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 27 Jun 2024 13:30
Operator : pest2:mhg
Sample : WG1940092-5,42,,+1660 pp11597 lvi ccal (Sig #1); +1660 pp11597 lvi ccal (Sig #2)
Misc : WG1940092,,ical21102
ALS Vial : 34 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 27 13:43:02 2024
Quant Method : I:\PCB\Pest2\2024\240627A\P2_pcb_05_06_24_LVI_ugL_ICAL21102.m
Quant Title : pcb
QLast Update : Wed May 08 09:27:21 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : 1660 - 1660

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Sum 1260-1			1488.8E6	1019.9E6	1093.724	1344.619
Average 1260-1					218.745	268.924
Sum 1221-2			0	0	N.D.	N.D.
Average 1221-2					0.000	0.000
Sum 1254-1			0	0	N.D.	N.D.
Average 1254-1					0.000	0.000
Sum 1242-1			0	0	N.D.	N.D.
Average 1242-1					0.000	0.000
Sum 1268-1			0	0	N.D.	N.D.
Average 1268-1					0.000	0.000
Sum 1248-1			0	0	N.D.	N.D.
Average 1248-1					0.000	0.000
Sum 1232-1			0	0	N.D.	N.D.
Average 1232-1					0.000	0.000
Sum 1262-1			0	0	N.D.	N.D.
Average 1262-1					0.000	0.000
SemiQuant Compounds - Not Calibrated on this Instrument						
Sum 1262-1			0	0	N.D.	N.D.
Average 1262-1					0.000	0.000

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240627A\
Data File : P2240627a-34.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 27 Jun 2024 13:30
Operator : pest2:mhg
Sample : WG1940092-5,42,,+1660 pp11597 lvi ccal (Sig #1); +1660 pp11597 lvi ccal (Sig #2)
Misc : WG1940092,,ical21102
ALS Vial : 34 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 27 13:43:02 2024
Quant Method : I:\PCB\Pest2\2024\240627A\P2_pcb_05_06_24_LVI_ugL_ICAL21102.m
Quant Title : pcb
QLast Update : Wed May 08 09:27:21 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : 1660 - 1660

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l

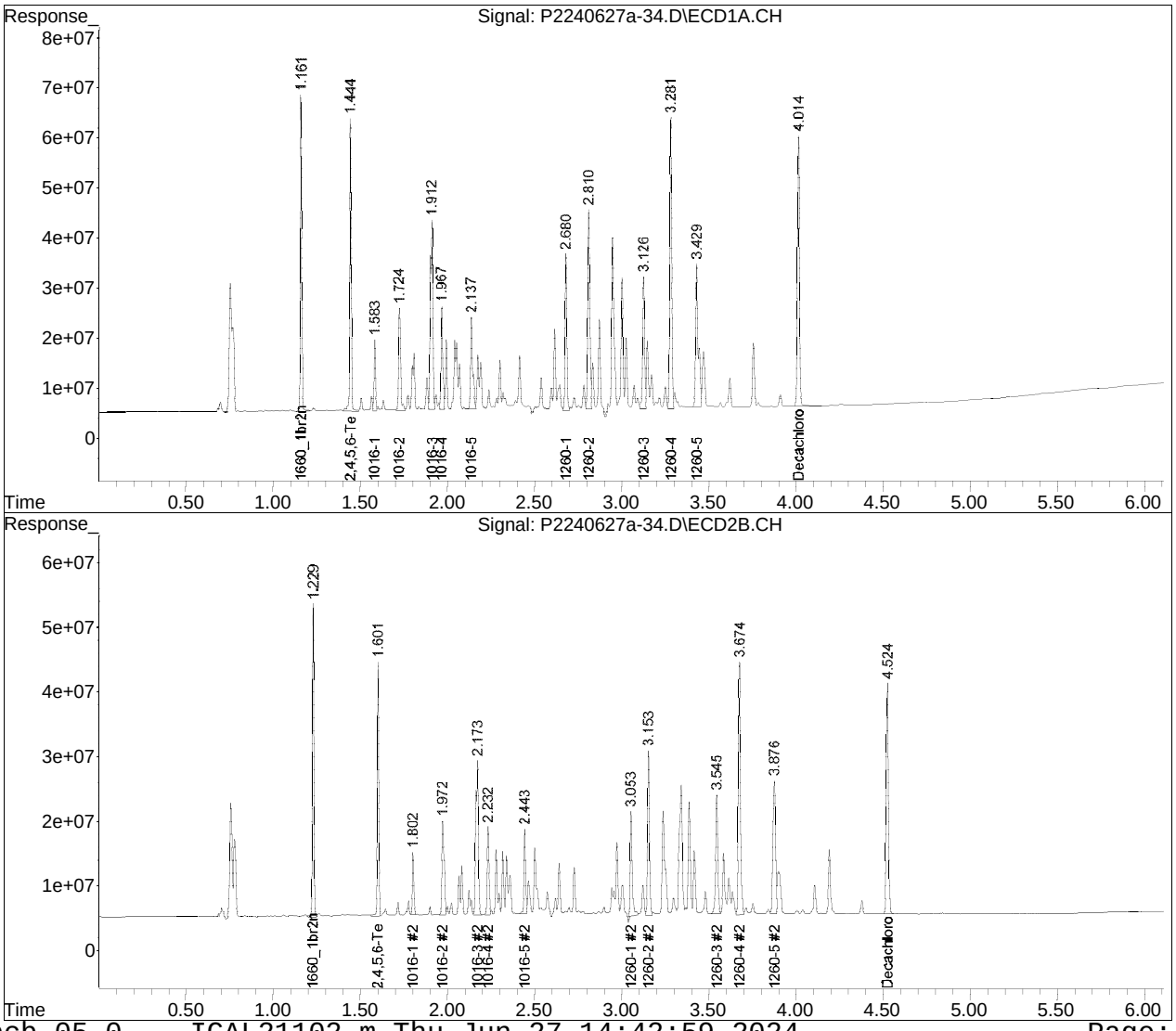
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : 1660 - 1660ation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240627A\
Data File : P2240627a-34.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 27 Jun 2024 13:30
Operator : pest2:mhg
Sample : WG1940092-5,42,,+1660 pp11597 lvi ccal (Sig #1); +1660 pp11597 lvi
Misc : WG1940092,,ical21102
ALS Vial : 34 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 27 13:43:02 2024
Quant Method : I:\PCB\Pest2\2024\240627A\P2_pcb_05_06_24_LVI_ugL_ICAL21102.m
Quant Title : pcb
QLast Update : Wed May 08 09:27:21 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

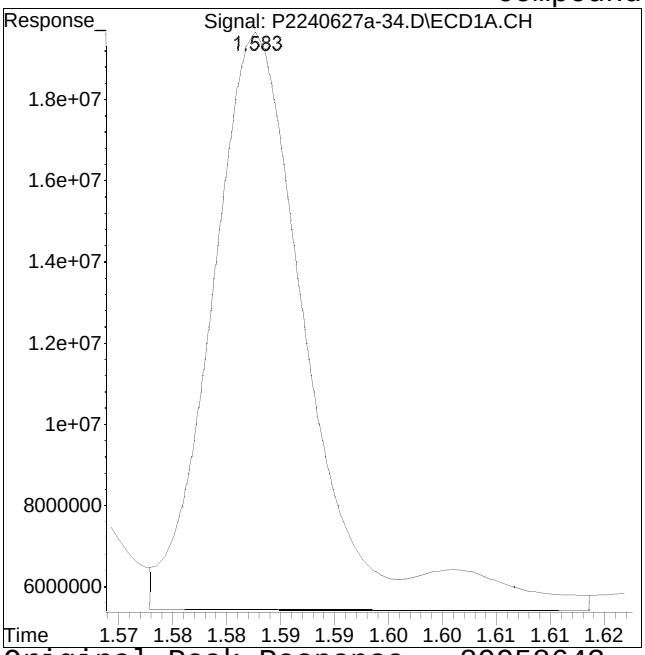
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

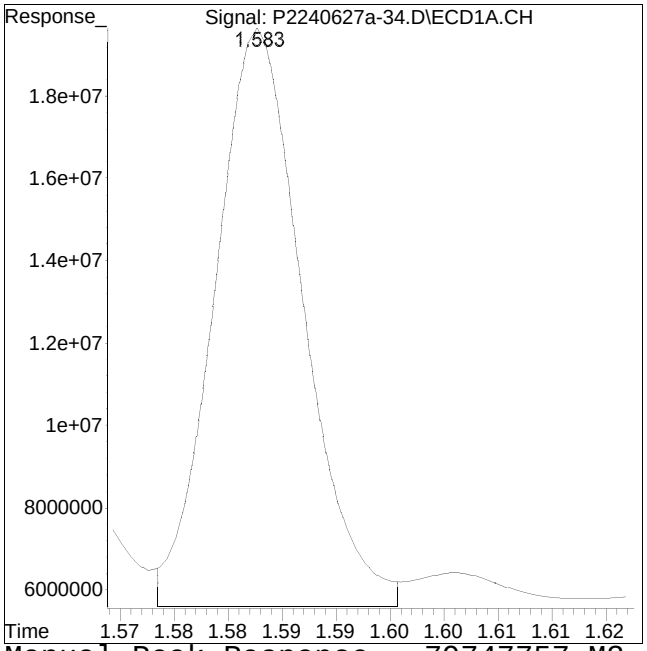


Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240627A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240627a-34.D Operator : pest2:mhg
Date Inj'd : 6/27/2024 13:30 Instrument : Pest 2
Sample : WG1940092-5,42,,+1660 pp11Quant Date : 6/27/2024 1:43 pm

Compound #4: 1016-1



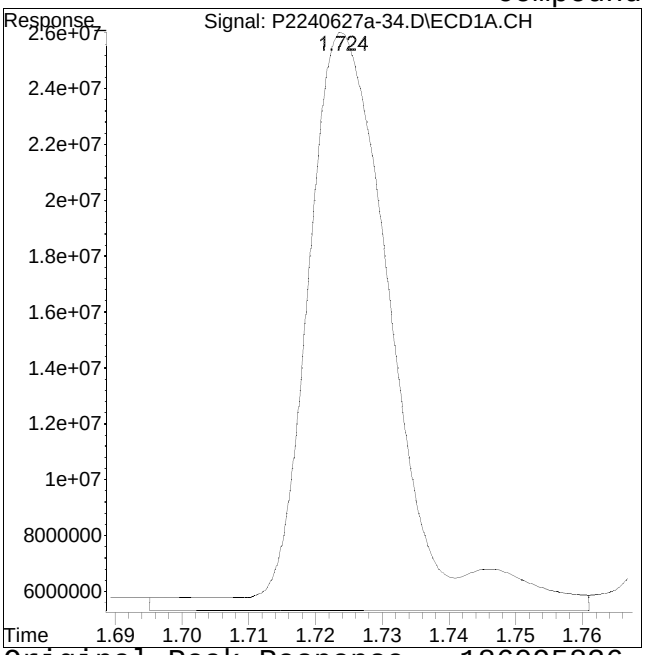


Original Peak Response = 89958643 Manual Peak Response = 79747757 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

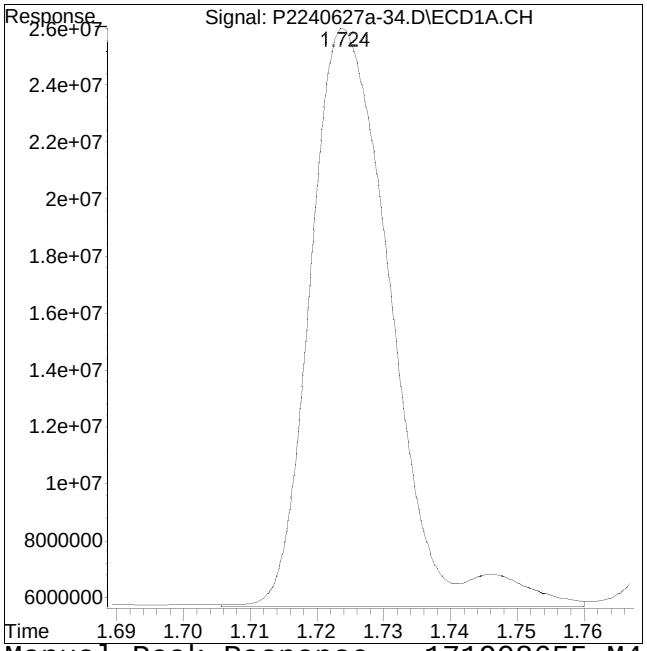
Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240627A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240627a-34.D Operator : pest2:mhg
Date Inj'd : 6/27/2024 13:30 Instrument : Pest 2
Sample : WG1940092-5,42,,+1660 pp11Quant Date : 6/27/2024 1:43 pm

Compound #5: 1016-2



Original Peak Response = 186095836



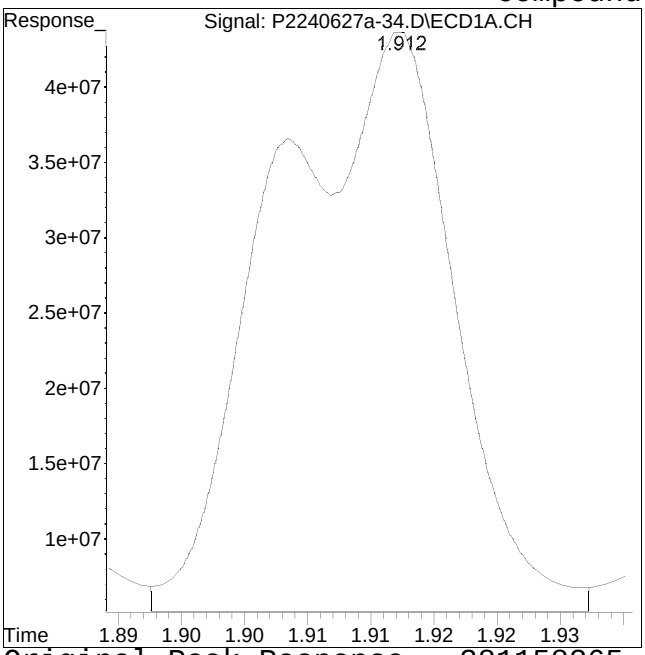
Manual Peak Response = 171908655 M4

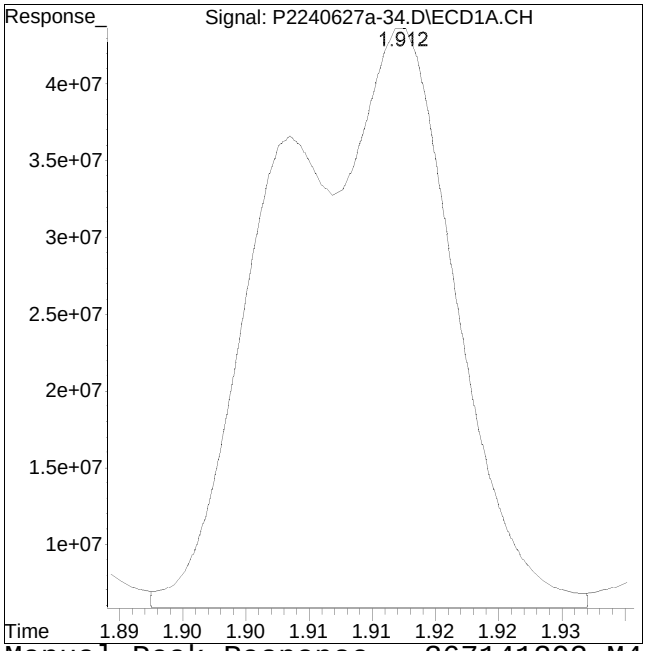
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240627A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240627a-34.D Operator : pest2:mhg
Date Inj'd : 6/27/2024 13:30 Instrument : Pest 2
Sample : WG1940092-5,42,,+1660 pp11Quant Date : 6/27/2024 1:43 pm

Compound #6: 1016-3



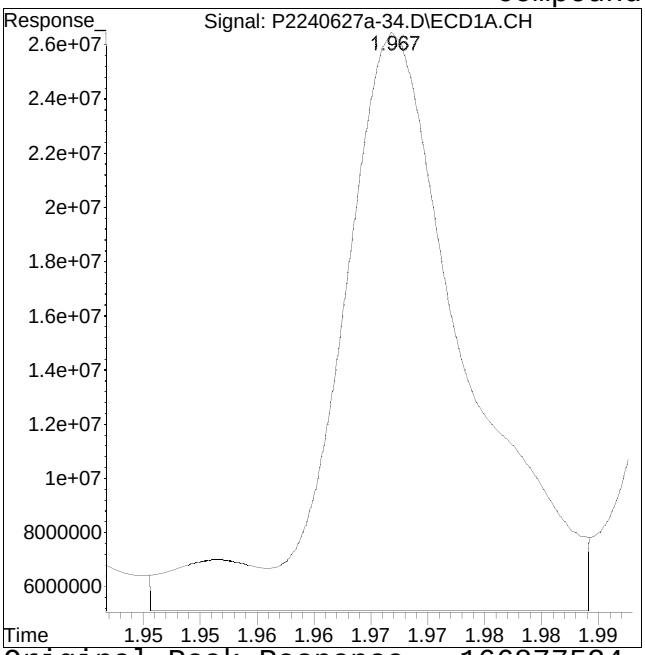


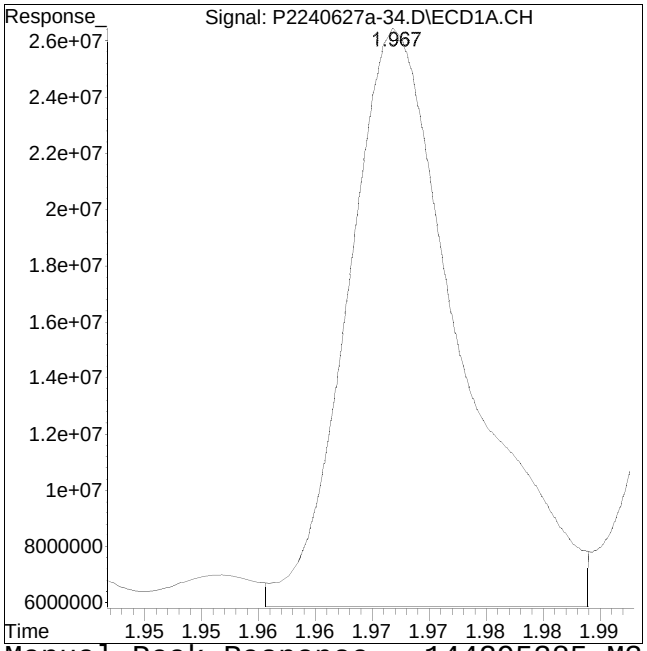
Original Peak Response = 381158365 Manual Peak Response = 367141293 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240627A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240627a-34.D Operator : pest2:mhg
Date Inj'd : 6/27/2024 13:30 Instrument : Pest 2
Sample : WG1940092-5,42,,+1660 pp11Quant Date : 6/27/2024 1:43 pm

Compound #7: 1016-4



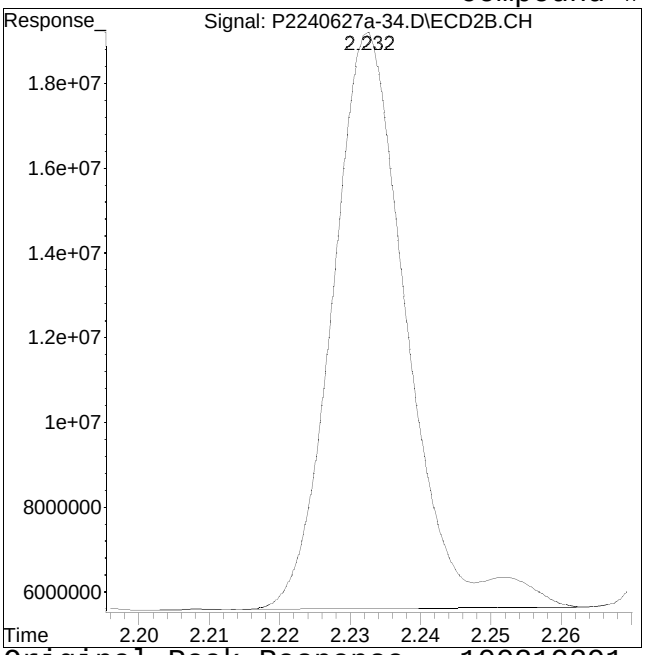


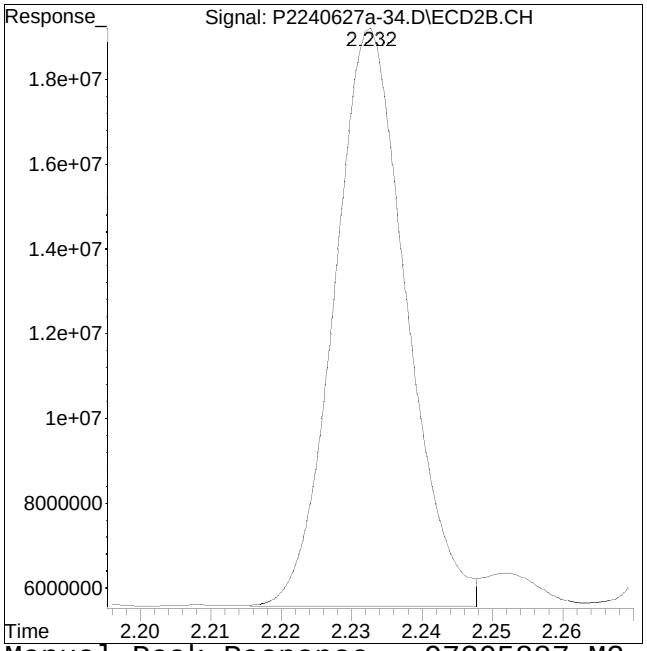
Original Peak Response = 166877524 Manual Peak Response = 144295385 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240627A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240627a-34.D Operator : pest2:mhg
Date Inj'd : 6/27/2024 13:30 Instrument : Pest 2
Sample : WG1940092-5,42,,+1660 pp11Quant Date : 6/27/2024 1:43 pm

Compound #58: 1016-4 #2



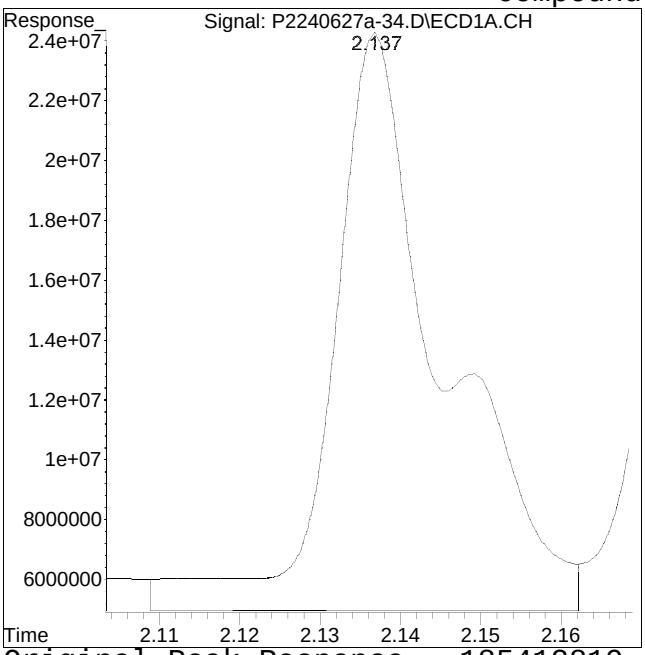


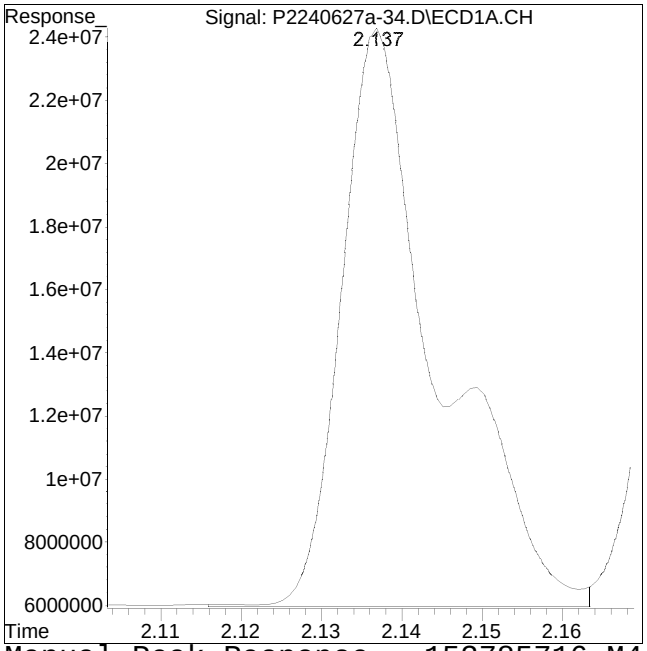
Original Peak Response = 100219291 Manual Peak Response = 97305887 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240627A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240627a-34.D Operator : pest2:mhg
Date Inj'd : 6/27/2024 13:30 Instrument : Pest 2
Sample : WG1940092-5,42,,+1660 pp11Quant Date : 6/27/2024 1:43 pm

Compound #8: 1016-5



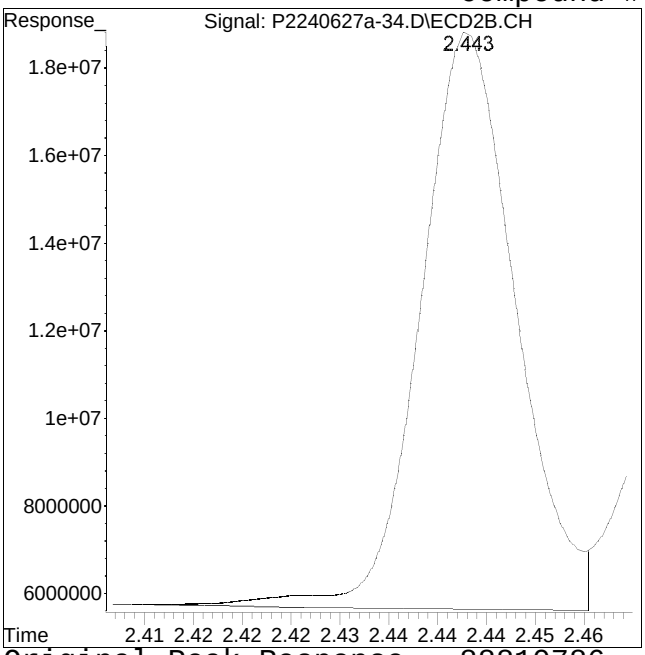


Original Peak Response = 185412819 Manual Peak Response = 153785716 M4
M4 = Poor automated baseline construction.

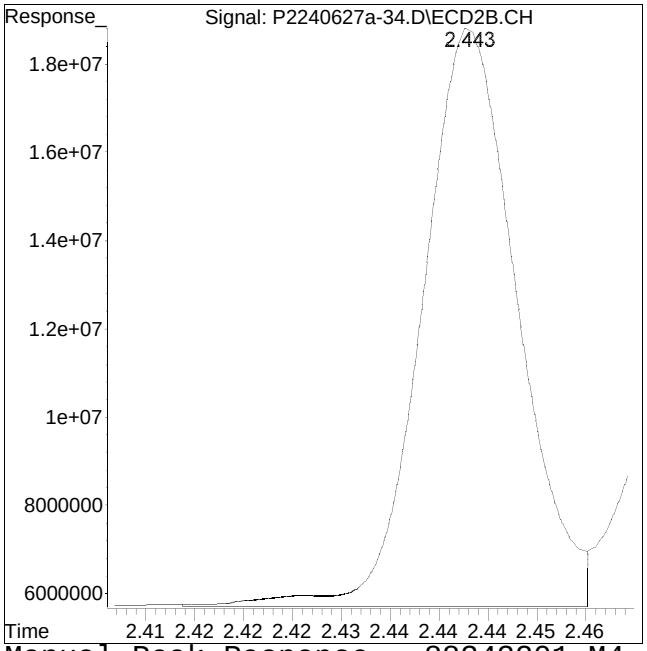
Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240627A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240627a-34.D Operator : pest2:mhg
Date Inj'd : 6/27/2024 13:30 Instrument : Pest 2
Sample : WG1940092-5,42,,+1660 pp11Quant Date : 6/27/2024 1:43 pm

Compound #59: 1016-5 #2



Original Peak Response = 88810786



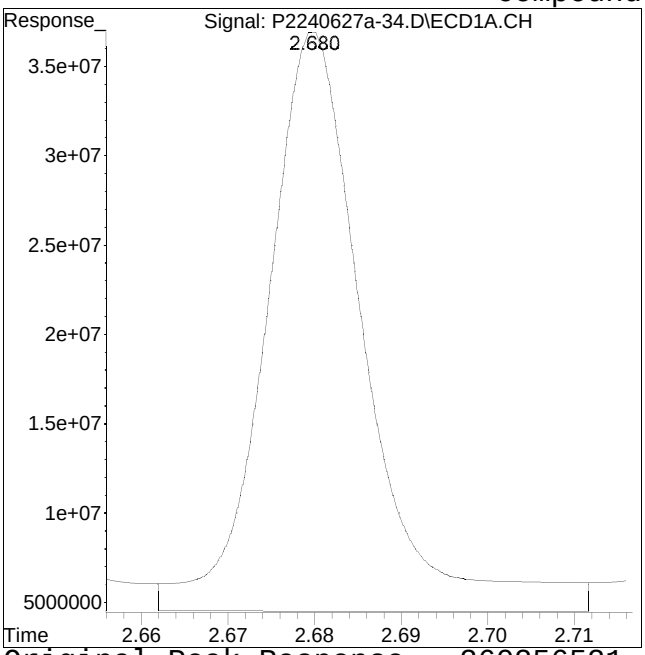
Manual Peak Response = 88343201 M4

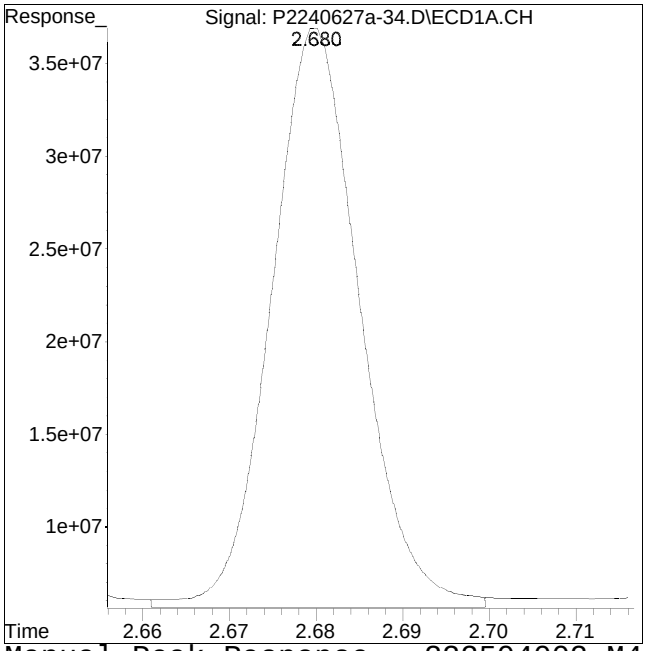
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240627A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240627a-34.D Operator : pest2:mhg
Date Inj'd : 6/27/2024 13:30 Instrument : Pest 2
Sample : WG1940092-5,42,,+1660 pp11Quant Date : 6/27/2024 1:43 pm

Compound #9: 1260-1



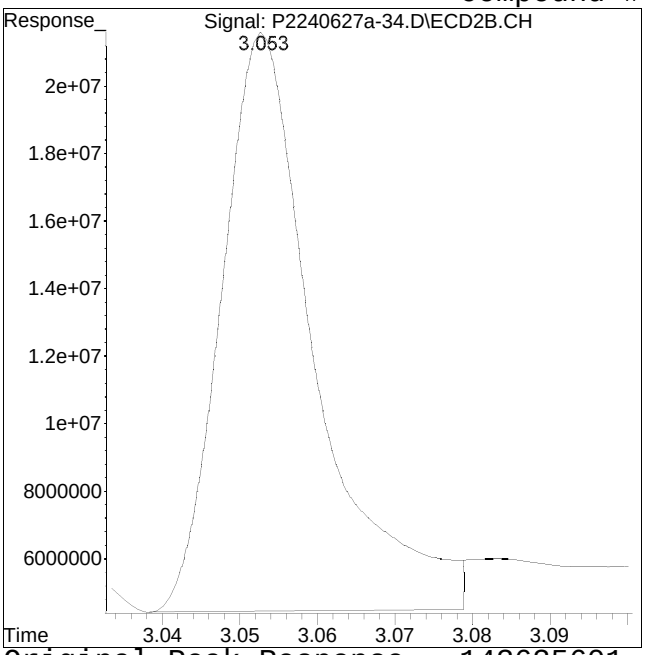


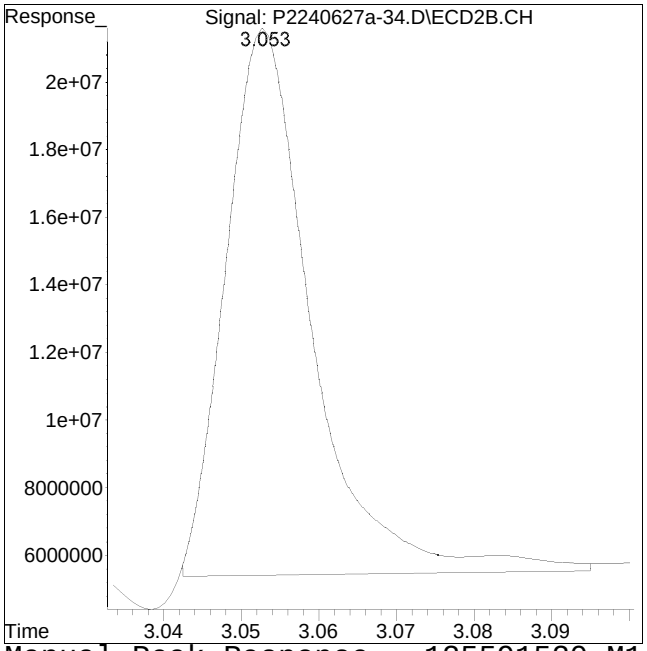
Original Peak Response = 260256521 Manual Peak Response = 222504002 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240627A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240627a-34.D Operator : pest2:mhg
Date Inj'd : 6/27/2024 13:30 Instrument : Pest 2
Sample : WG1940092-5,42,,+1660 pp11Quant Date : 6/27/2024 1:43 pm

Compound #60: 1260-1 #2



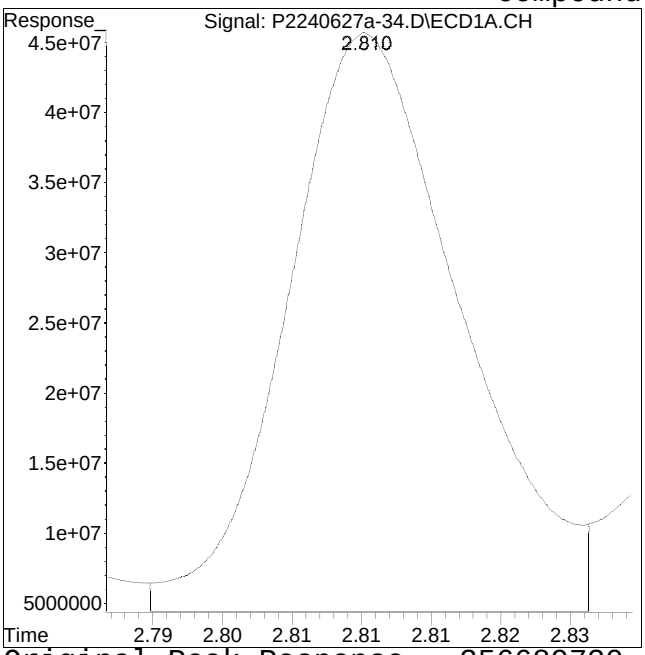


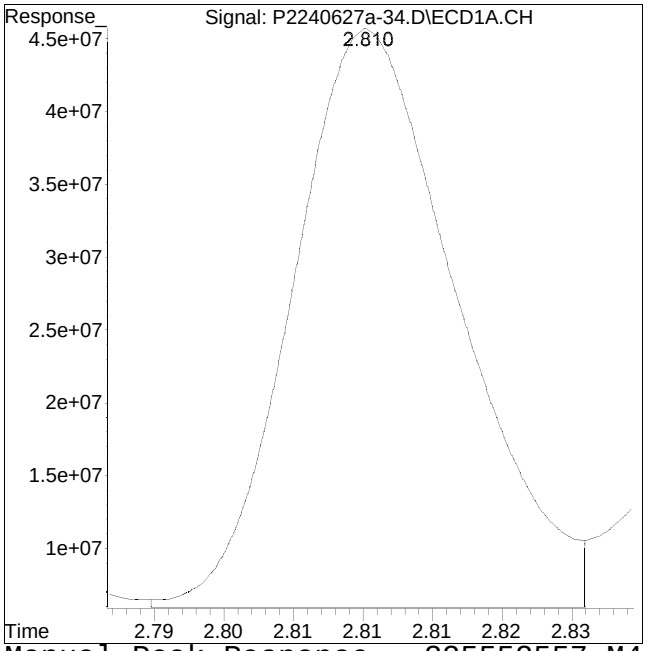
Original Peak Response = 143635601 Manual Peak Response = 125591520 M1
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240627A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240627a-34.D Operator : pest2:mhg
Date Inj'd : 6/27/2024 13:30 Instrument : Pest 2
Sample : WG1940092-5,42,,+1660 pp11Quant Date : 6/27/2024 1:43 pm

Compound #10: 1260-2



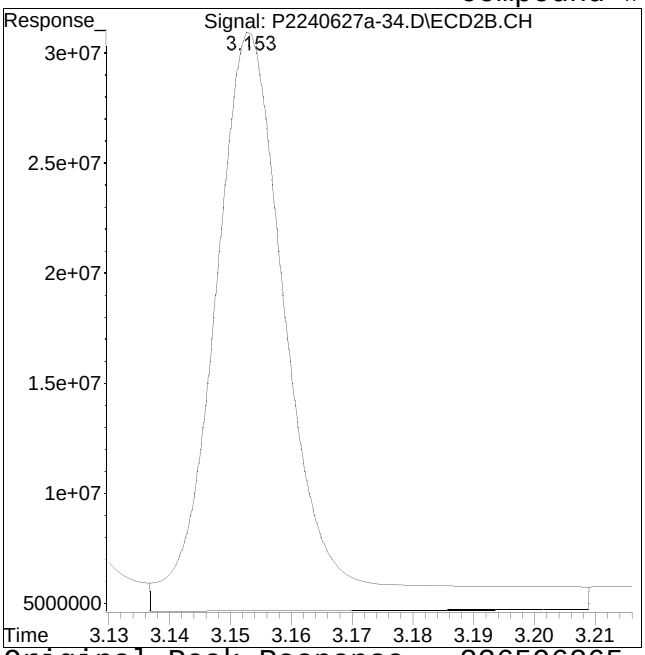


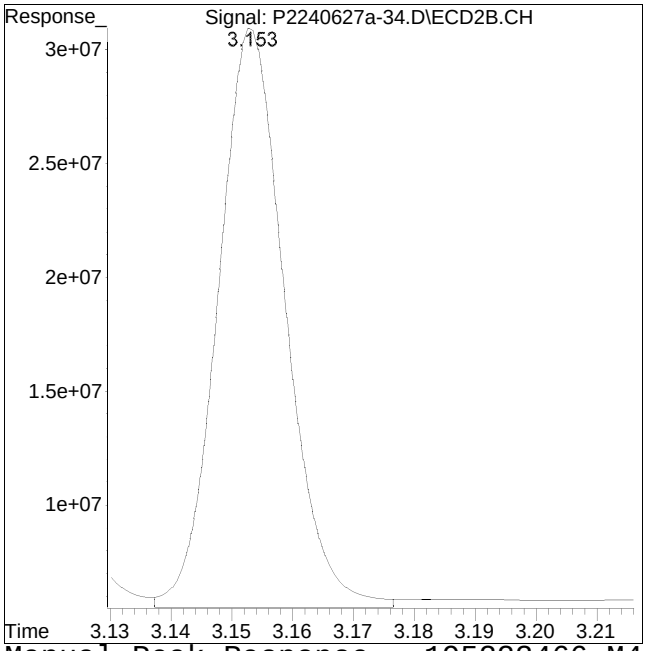
Original Peak Response = 356689730 Manual Peak Response = 325552557 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240627A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240627a-34.D Operator : pest2:mhg
Date Inj'd : 6/27/2024 13:30 Instrument : Pest 2
Sample : WG1940092-5,42,,+1660 pp11Quant Date : 6/27/2024 1:43 pm

Compound #61: 1260-2 #2



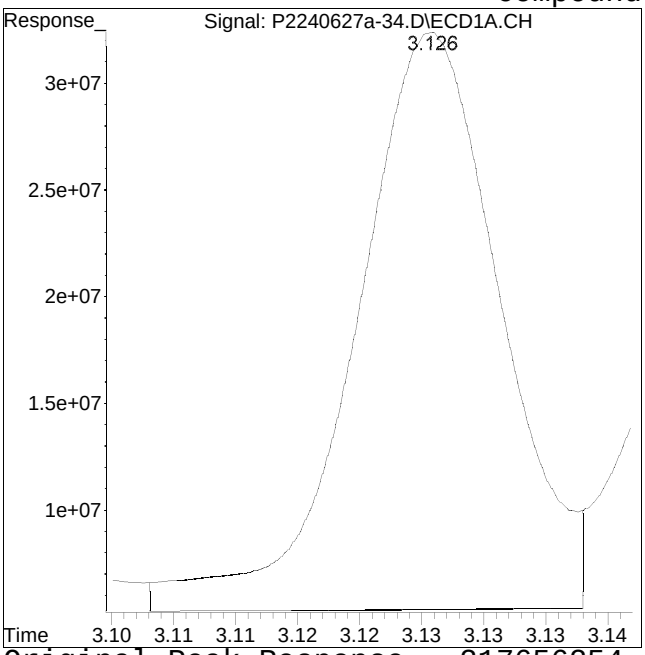


Original Peak Response = 236596265 Manual Peak Response = 195223466 M4
M4 = Poor automated baseline construction.

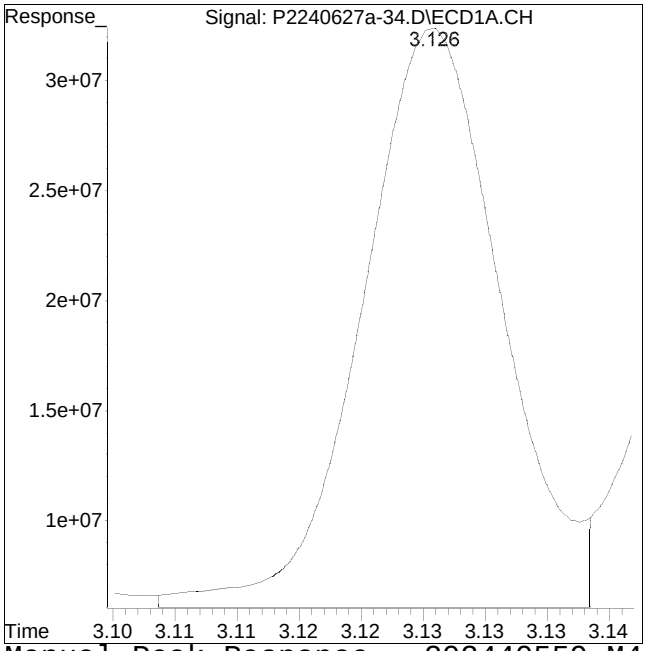
Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240627A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240627a-34.D Operator : pest2:mhg
Date Inj'd : 6/27/2024 13:30 Instrument : Pest 2
Sample : WG1940092-5,42,,+1660 pp11Quant Date : 6/27/2024 1:43 pm

Compound #11: 1260-3



Original Peak Response = 217656254



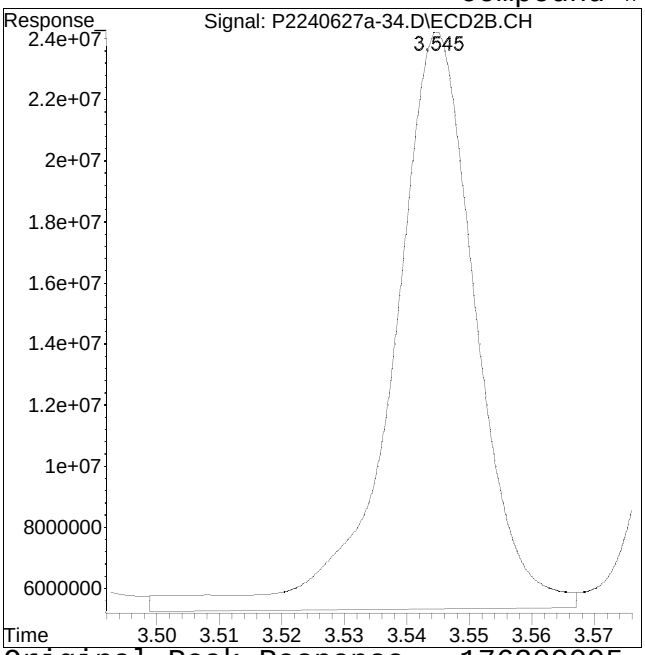
Manual Peak Response = 202440559 M4

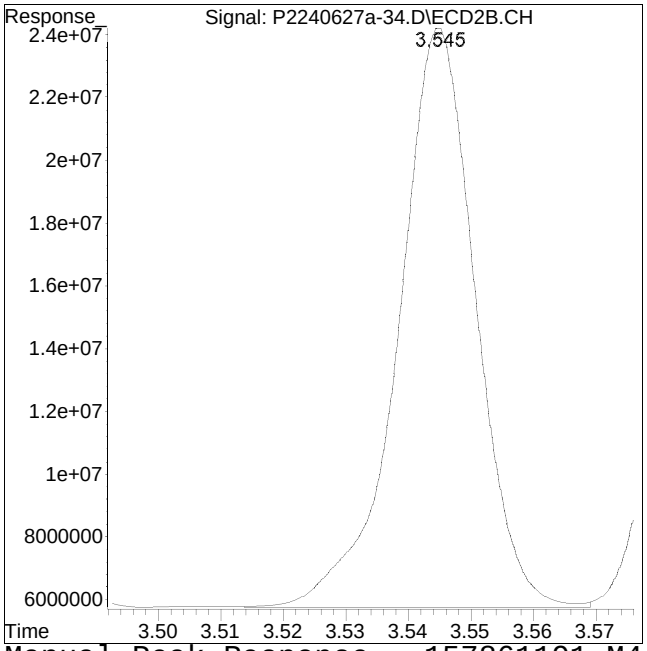
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240627A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240627a-34.D Operator : pest2:mhg
Date Inj'd : 6/27/2024 13:30 Instrument : Pest 2
Sample : WG1940092-5,42,,+1660 pp11Quant Date : 6/27/2024 1:43 pm

Compound #62: 1260-3 #2



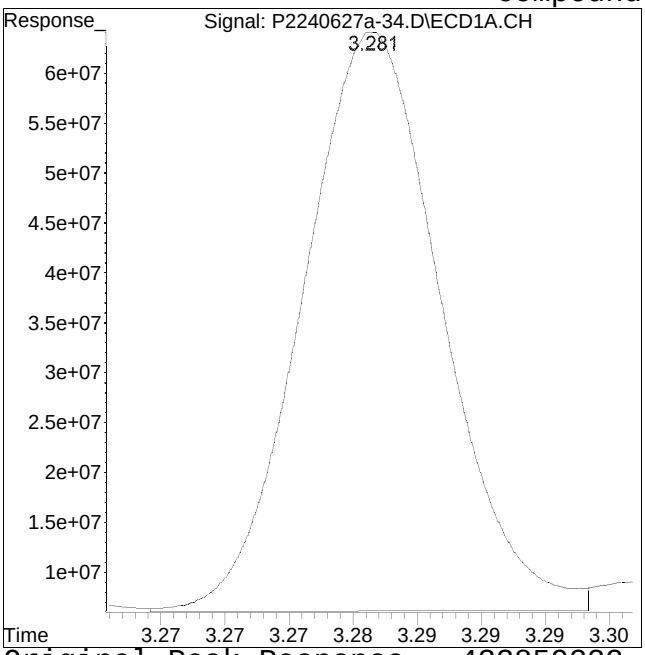


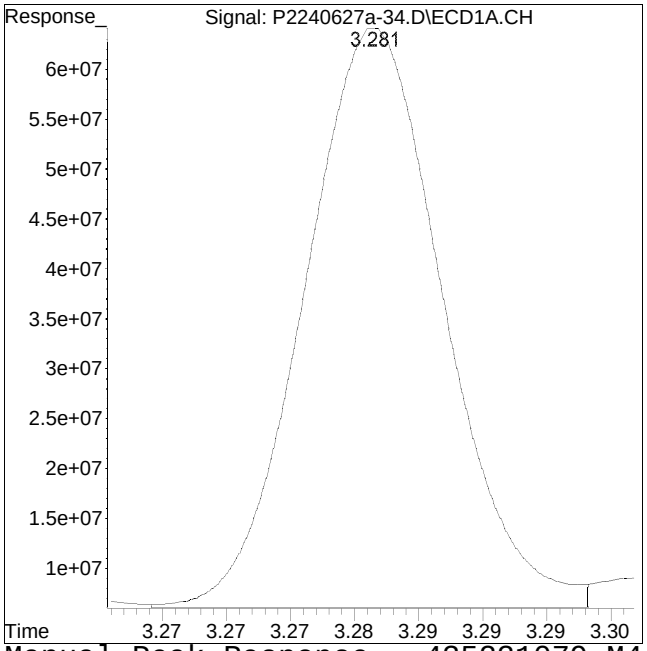
Original Peak Response = 176209995 Manual Peak Response = 157861191 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240627A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240627a-34.D Operator : pest2:mhg
Date Inj'd : 6/27/2024 13:30 Instrument : Pest 2
Sample : WG1940092-5,42,,+1660 pp11Quant Date : 6/27/2024 1:43 pm

Compound #12: 1260-4



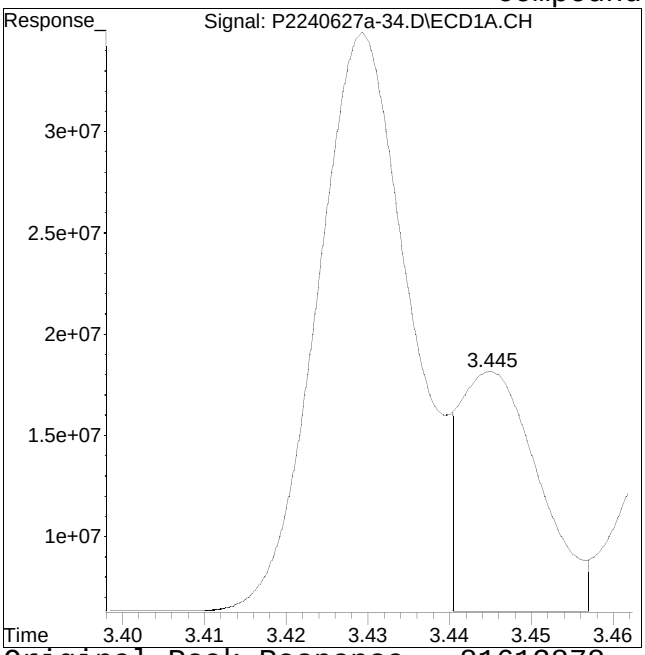


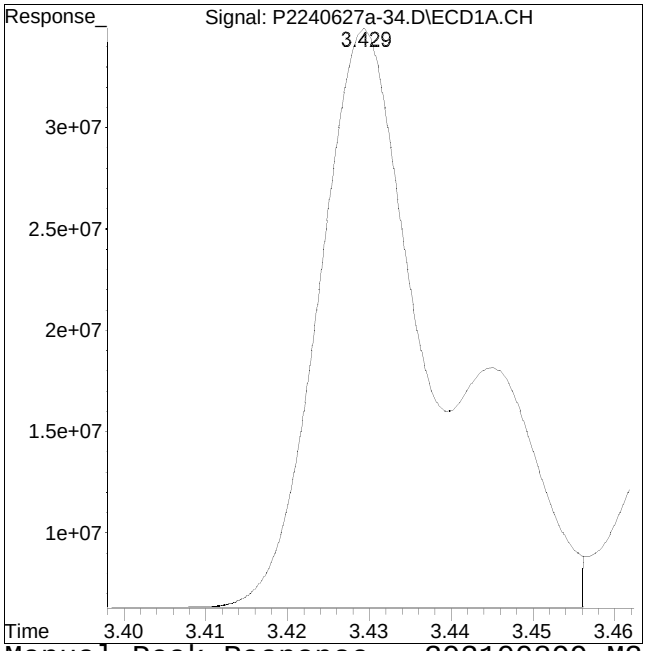
Original Peak Response = 433859222 Manual Peak Response = 435231079 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240627A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240627a-34.D Operator : pest2:mhg
Date Inj'd : 6/27/2024 13:30 Instrument : Pest 2
Sample : WG1940092-5,42,,+1660 pp11Quant Date : 6/27/2024 1:43 pm

Compound #13: 1260-5





Original Peak Response = 81613878 Manual Peak Response = 303100899 M2
M2 = Peak not found by automatic integration algorithm.

RT Shift Summary

Identification Summary
Form 10
PCBs

Client	**: Alpha Geoscience**	**Lab Number**	**: L2434679**
Project Name	**: RANCO MINE**	**Project Number**	**: 12123**

No Detections Found

Aroclor Raw QC Data

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240627A\
Data File : P2240627a-15.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 27 Jun 2024 10:44
Operator : pest2:mhg
Sample : WG1939973-1,42,,
Misc : WG1940092,WG1939973,ical21102
ALS Vial : 15 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 27 11:25:44 2024
Quant Method : I:\PCB\Pest2\2024\240627A\P2_pcb_05_06_24_LVI_ugL_ICAL21102.m
Quant Title : pcb
QLast Update : Wed May 08 09:27:21 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PCB\Pest2\2024\240627A\P2240627a-02.D
Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Internal Standards							
1) i	1660_1br2nb	1.160	1.228	404.8E6	275.3E6	25.000M4	25.000M4
	Standard Area 1 : #1 = 386975749				Recovery = 104.59%		
	Standard Area 1 : #2 = 277930109				Recovery = 99.06%		
14) i	2154_1br2nb	1.160	1.228	404.8E6	275.3E6	25.000M4	25.000M4
23) i	4268_1br2nb	1.160	1.228	404.8E6	275.3E6	25.000M4	25.000M4
34) i	1248_1br2nb	1.160	1.228	404.8E6	275.3E6	25.000M4	25.000M4
40) i	3262_1br2nb	1.160	1.228	404.8E6	275.3E6	25.000M4	25.000M4
System Monitoring Compounds							
2) s	2,4,5,6-Tetr	1.443	1.601	318.8E6	208.2E6	15.021M4	15.353M4
	Spiked Amount 20.000	Range 30 - 150			Recovery = 75.11%		76.77%
3) s	Decachlorobi	4.013	4.526	221.2E6	160.2E6	16.131	25.073
	Spiked Amount 20.000	Range 30 - 150			Recovery = 80.66%		125.36%
Target Compounds							
4) l1	1016-1	0.000	0.000	0	0	N.D. d	N.D. d
5) l1	1016-2	0.000	0.000	0	0	N.D. d	N.D. d
6) l1	1016-3	0.000	0.000	0	0	N.D. d	N.D. d
7) l1	1016-4	0.000	0.000	0	0	N.D. d	N.D. d
8) l1	1016-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1016-1			0	0	N.D.	N.D.
	Average 1016-1					0.000	0.000
9) l2	1260-1	0.000	0.000	0	0	N.D. d	N.D. d
10) l2	1260-2	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\PCB\Pest2\2024\240627A\
Data File : P2240627a-15.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 27 Jun 2024 10:44
Operator : pest2:mhg
Sample : WG1939973-1,42,,
Misc : WG1940092,WG1939973,ical21102
ALS Vial : 15 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 27 11:25:44 2024
Quant Method : I:\PCB\Pest2\2024\240627A\P2_pcb_05_06_24_LVI_ugL_ICAL21102.m
Quant Title : pcb
QLast Update : Wed May 08 09:27:21 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PCB\Pest2\2024\240627A\P2240627a-02.D
Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
11) l2 1260-3	0.000	0.000	0	0	N.D. d	N.D. d
12) l2 1260-4	0.000	0.000	0	0	N.D. d	N.D. d
13) l2 1260-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1260-1			0	0	N.D.	N.D.
Average 1260-1					0.000	0.000
15) l3 1221-2	0.000	0.000	0	0	N.D. d	N.D. d
16) l3 1221-3	0.000	0.000	0	0	N.D. d	N.D. d
17) l3 1221-4	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1221-2			0	0	N.D.	N.D.
Average 1221-2					0.000	0.000
18) l4 1254-1	0.000	0.000	0	0	N.D. d	N.D. d
19) l4 1254-2	0.000	0.000	0	0	N.D. d	N.D. d
20) l4 1254-3	0.000	0.000	0	0	N.D. d	N.D. d
21) l4 1254-4	0.000	0.000	0	0	N.D. d	N.D. d
22) l4 1254-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1254-1			0	0	N.D.	N.D.
Average 1254-1					0.000	0.000
24) l6 1242-1	0.000	0.000	0	0	N.D. d	N.D. d
25) l6 1242-2	0.000	0.000	0	0	N.D. d	N.D. d
26) l6 1242-3	0.000	0.000	0	0	N.D. d	N.D. d
27) l6 1242-4	0.000	0.000	0	0	N.D. d	N.D. d
28) l6 1242-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1242-1			0	0	N.D.	N.D.
Average 1242-1					0.000	0.000
29) l9 1268-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l9 1268-2	0.000	0.000	0	0	N.D. d	N.D. d
31) l9 1268-3	0.000	0.000	0	0	N.D. d	N.D. d
32) l9 1268-4	0.000	0.000	0	0	N.D. d	N.D. d
33) l9 1268-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1268-1			0	0	N.D.	N.D.
Average 1268-1					0.000	0.000
35) l7 1248-1	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\PCB\Pest2\2024\240627A\
Data File : P2240627a-15.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 27 Jun 2024 10:44
Operator : pest2:mhg
Sample : WG1939973-1,42,,
Misc : WG1940092,WG1939973,ical21102
ALS Vial : 15 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 27 11:25:44 2024
Quant Method : I:\PCB\Pest2\2024\240627A\P2_pcb_05_06_24_LVI_ugL_ICAL21102.m
Quant Title : pcb
QLast Update : Wed May 08 09:27:21 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PCB\Pest2\2024\240627A\P2240627a-02.D
Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
36) l7 1248-2	0.000	0.000	0	0	N.D. d	N.D. d
37) l7 1248-3	0.000	0.000	0	0	N.D. d	N.D. d
38) l7 1248-4	0.000	0.000	0	0	N.D. d	N.D. d
39) l7 1248-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1248-1			0	0	N.D.	N.D.
Average 1248-1					0.000	0.000
41) l5 1232-1	0.000	0.000	0	0	N.D. d	N.D. d
42) l5 1232-2	0.000	0.000	0	0	N.D. d	N.D. d
43) l5 1232-3	0.000	0.000	0	0	N.D. d	N.D. d
44) l5 1232-4	0.000	0.000	0	0	N.D. d	N.D. d
45) l5 1232-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1232-1			0	0	N.D.	N.D.
Average 1232-1					0.000	0.000
46) l8 1262-1	0.000	0.000	0	0	N.D. d	N.D. d
47) l8 1262-2	0.000	0.000	0	0	N.D. d	N.D. d
48) l8 1262-3	0.000	0.000	0	0	N.D. d	N.D. d
49) l8 1262-4	0.000	0.000	0	0	N.D. d	N.D. d
50) l8 1262-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1262-1			0	0	N.D.	N.D.
Average 1262-1					0.000	0.000
SemiQuant Compounds - Not Calibrated on this Instrument						
Sum 1262-1			0	0	N.D.	N.D.
Average 1262-1					0.000	0.000

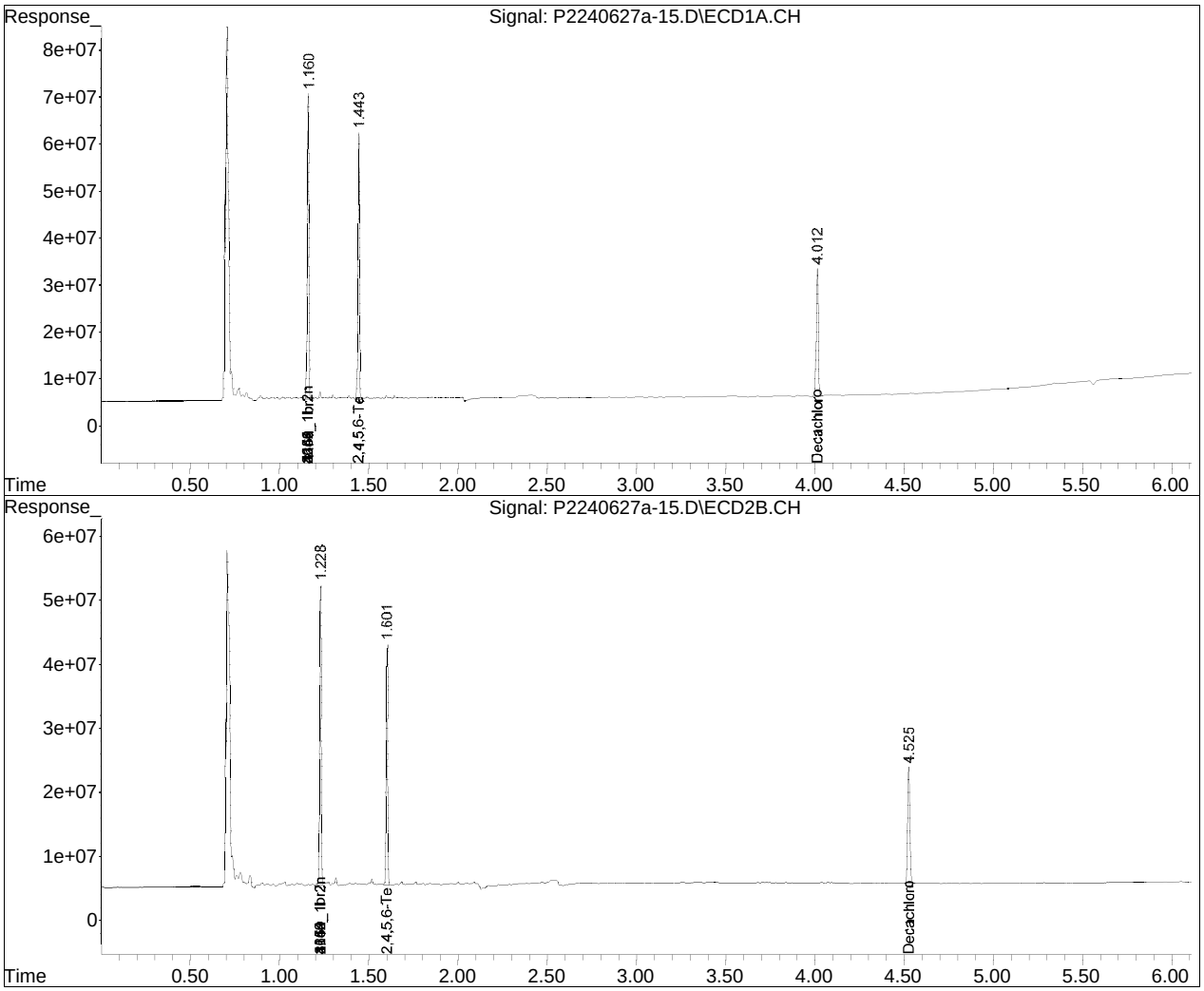
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listedP2240627a-02.D•

Data Path : I:\PCB\Pest2\2024\240627A\
Data File : P2240627a-15.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 27 Jun 2024 10:44
Operator : pest2:mhg
Sample : WG1939973-1,42,,
Misc : WG1940092,WG1939973,ical21102
ALS Vial : 15 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 27 11:25:44 2024
Quant Method : I:\PCB\Pest2\2024\240627A\P2_pcb_05_06_24_LVI_ugL_ICAL21102.m
Quant Title : pcb
QLast Update : Wed May 08 09:27:21 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

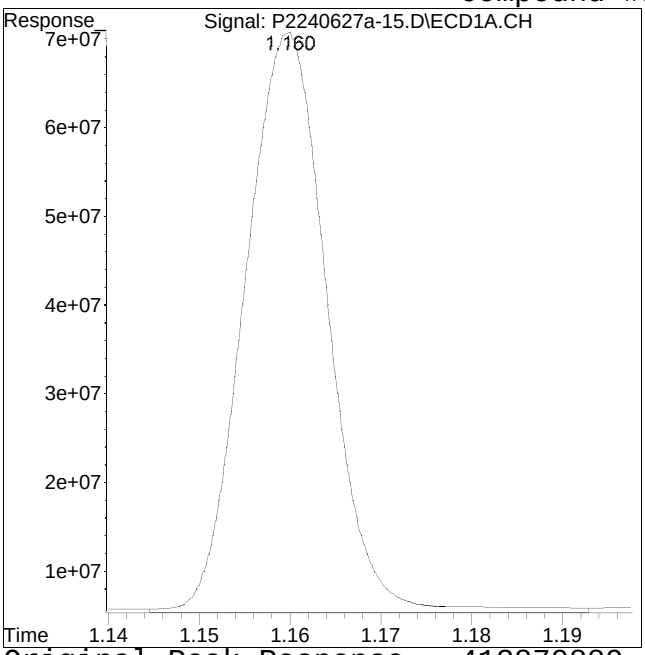
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



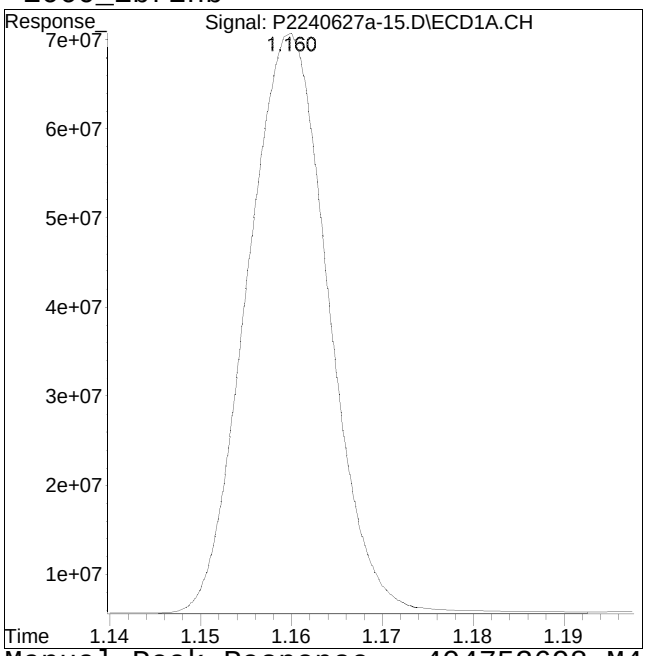
Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240627A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240627a-15.D Operator : pest2:mhg
Date Inj'd : 6/27/2024 10:44 Instrument : Pest 2
Sample : WG1939973-1,42,, Quant Date : 6/27/2024 11:25 am

Compound #1: 1660_1br2nb



Original Peak Response = 413870889



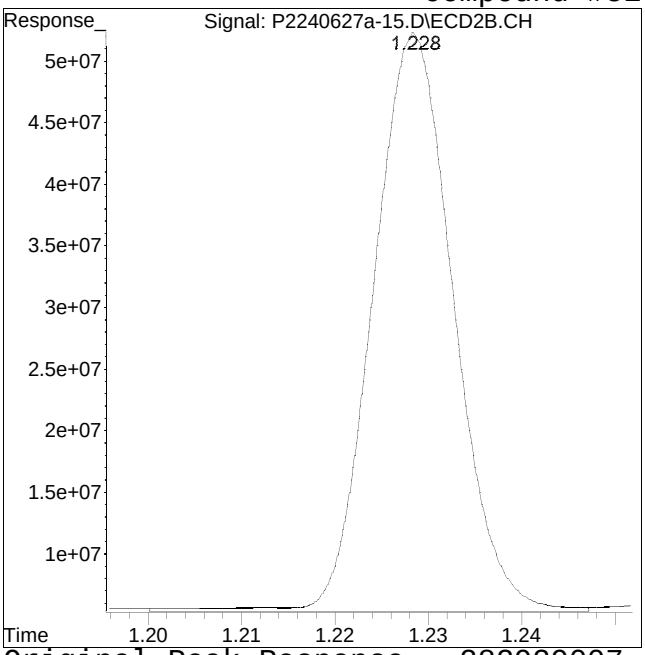
Manual Peak Response = 404753698 M4

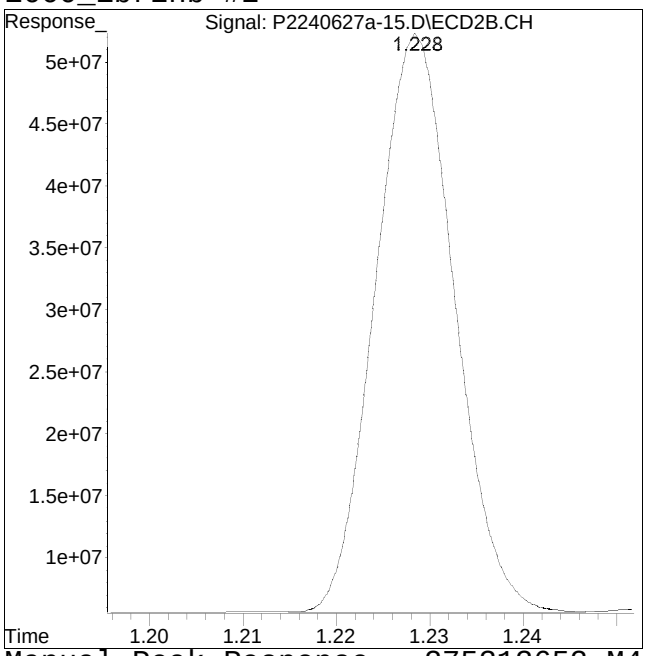
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240627A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240627a-15.D Operator : pest2:mhg
Date Inj'd : 6/27/2024 10:44 Instrument : Pest 2
Sample : WG1939973-1,42,, Quant Date : 6/27/2024 11:25 am

Compound #52: 1660_1br2nb #2



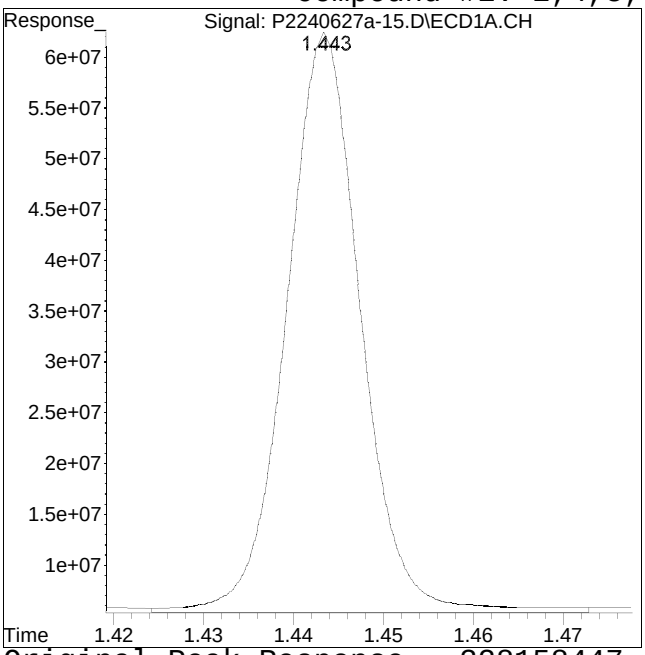


Original Peak Response = 282929007 Manual Peak Response = 275313652 M4
M4 = Poor automated baseline construction.

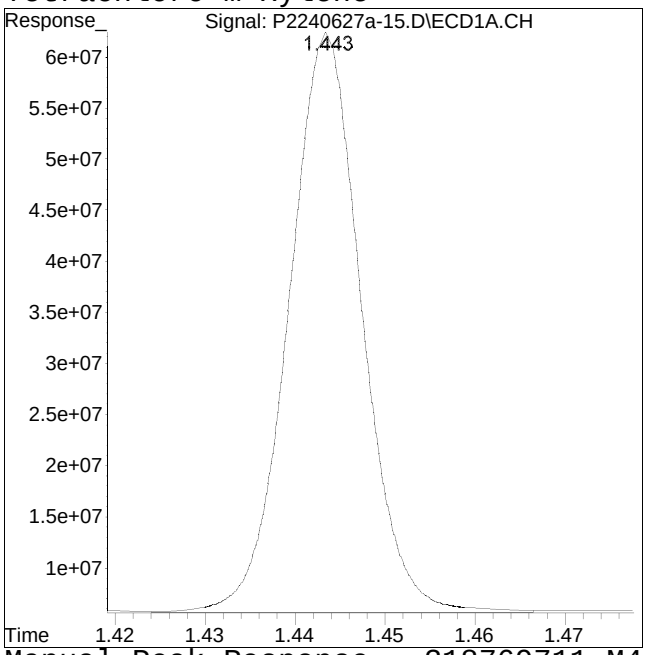
Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240627A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240627a-15.D Operator : pest2:mhg
Date Inj'd : 6/27/2024 10:44 Instrument : Pest 2
Sample : WG1939973-1,42,, Quant Date : 6/27/2024 11:25 am

Compound #2: 2,4,5,6-Tetrachloro-m-xylene



Original Peak Response = 328158447

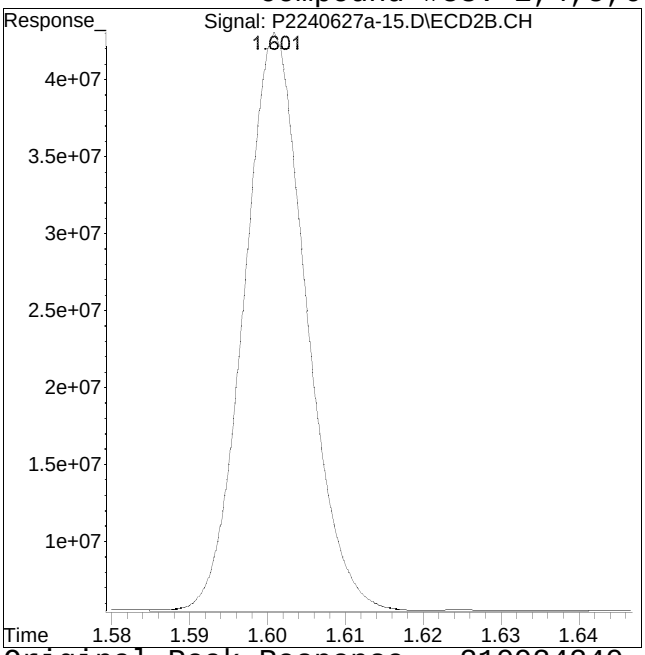


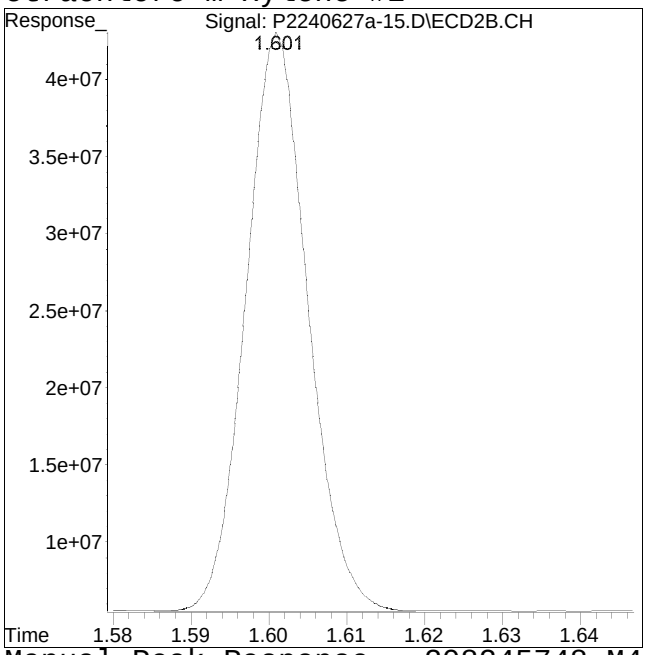
Manual Peak Response = 318769711 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240627A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240627a-15.D Operator : pest2:mhg
Date Inj'd : 6/27/2024 10:44 Instrument : Pest 2
Sample : WG1939973-1,42,, Quant Date : 6/27/2024 11:25 am

Compound #53: 2,4,5,6-Tetrachloro-m-xylene #2





Original Peak Response = 210924240 Manual Peak Response = 208245748 M4
M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240627A\
Data File : P2240627a-16.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 27 Jun 2024 10:53
Operator : pest2:mhg
Sample : WG1939973-2,42,,
Misc : WG1940092,WG1939973,ical21102
ALS Vial : 16 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 27 11:25:48 2024
Quant Method : I:\PCB\Pest2\2024\240627A\P2_pcb_05_06_24_LVI_ugL_ICAL21102.m
Quant Title : pcb
QLast Update : Wed May 08 09:27:21 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PCB\Pest2\2024\240627A\P2240627a-02.D
Sub List : 1660 - 1660

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Internal Standards						
1) i 1660_1br2nb	1.159	1.229	426.3E6	285.0E6	25.000	25.000
Standard Area 1 : #1 = 386975749				Recovery =	110.16%	
Standard Area 1 : #2 = 277930109				Recovery =	102.56%	
System Monitoring Compounds						
2) s 2,4,5,6-Tetr	1.444	1.601	353.1E6	225.5E6	15.800	16.056
Spiked Amount 20.000	Range 30 - 150		Recovery =	79.00%	80.28%	
3) s Decachlorobi	4.012	4.525	244.5E6	176.4E6	16.926	26.675
Spiked Amount 20.000	Range 30 - 150		Recovery =	84.63%	133.38%	
Target Compounds						
4) l1 1016-1	1.581	1.802	72188530	53393986	188.649M3	222.571
5) l1 1016-2	1.724	1.972	169.0E6	116.0E6	201.472	220.117
6) l1 1016-3	1.911	2.172	332.1E6	220.0E6	192.595M3	208.716
7) l1 1016-4	1.966	2.232	134.1E6	85200340	195.101M3	218.559M3
8) l1 1016-5	2.136	2.442	144.2E6	76243147	188.997	230.748
Sum 1016-1			851.6E6	550.8E6	966.814	1100.712
Average 1016-1					193.363	220.142
9) l2 1260-1	2.678	3.051	188.1E6	160.1E6	170.888	260.246
10) l2 1260-2	2.808	3.152	295.7E6	174.0E6	178.202M3	247.125
11) l2 1260-3	3.124	3.545	180.4E6	145.5E6	175.003	266.404
12) l2 1260-4	3.279	3.674	399.1E6	290.6E6	180.696M3	264.780
13) l2 1260-5	3.428	3.875	284.5E6	210.4E6	183.817	279.619
Sum 1260-1			1347.8E6	980.6E6	888.606	1318.175
Average 1260-1					177.721	263.635
Sum 1221-2			0	0	N.D.	N.D.
Average 1221-2					0.000	0.000
Sum 1254-1			0	0	N.D.	N.D.
Average 1254-1					0.000	0.000
Sum 1242-1			0	0	N.D.	N.D.

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240627A\
Data File : P2240627a-16.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 27 Jun 2024 10:53
Operator : pest2:mhg
Sample : WG1939973-2,42,,
Misc : WG1940092,WG1939973,ical21102
ALS Vial : 16 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 27 11:25:48 2024
Quant Method : I:\PCB\Pest2\2024\240627A\P2_pcb_05_06_24_LVI_ugL_ICAL21102.m
Quant Title : pcb
QLast Update : Wed May 08 09:27:21 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PCB\Pest2\2024\240627A\P2240627a-02.D
Sub List : 1660 - 1660

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Average 1242-1					0.000	0.000
Sum 1268-1			0	0	N.D.	N.D.
Average 1268-1					0.000	0.000
Sum 1248-1			0	0	N.D.	N.D.
Average 1248-1					0.000	0.000
Sum 1232-1			0	0	N.D.	N.D.
Average 1232-1					0.000	0.000
Sum 1262-1			0	0	N.D.	N.D.
Average 1262-1					0.000	0.000
SemiQuant Compounds - Not Calibrated on this Instrument						
Sum 1262-1			0	0	N.D.	N.D.
Average 1262-1					0.000	0.000

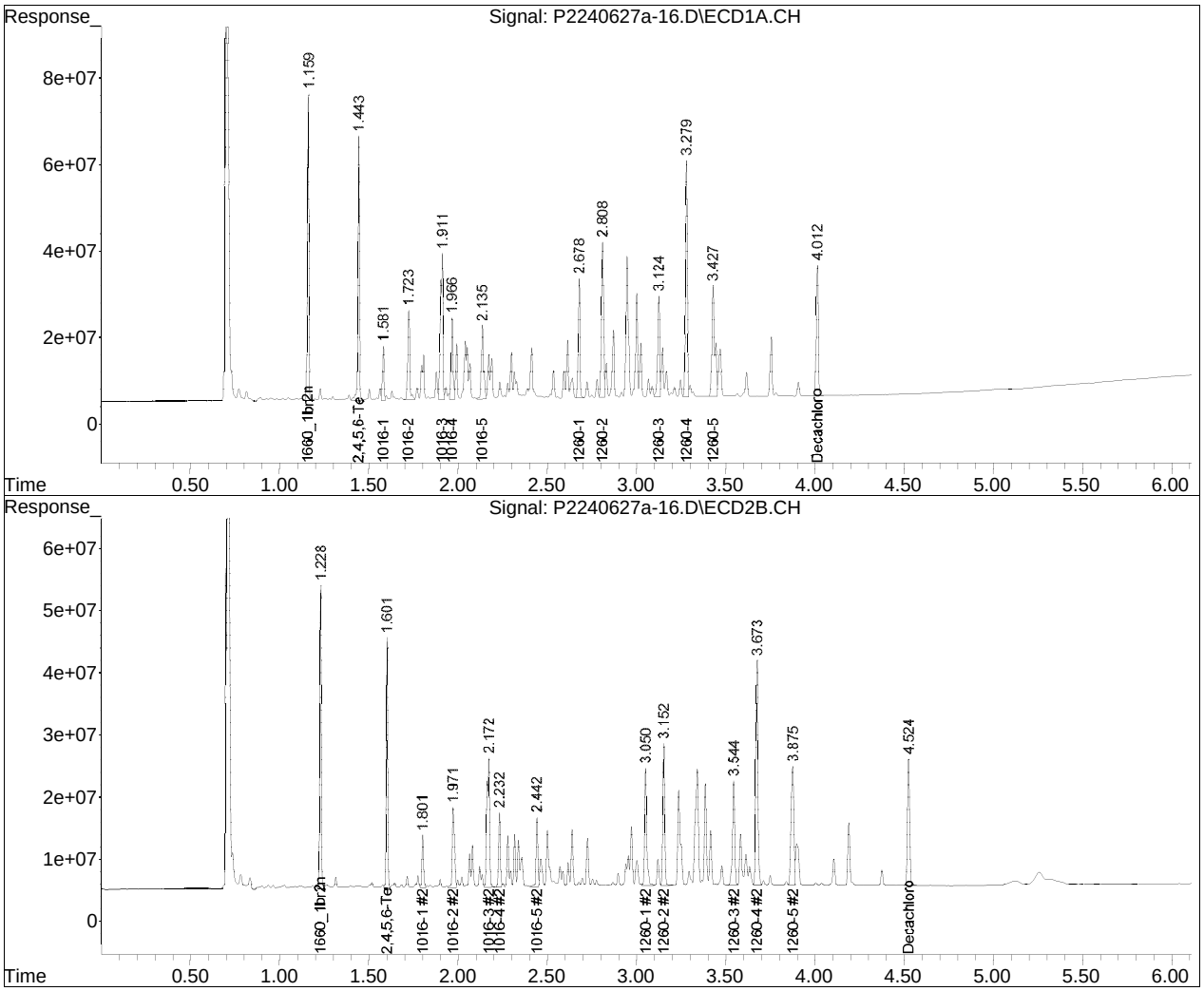
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : 1660 - 1660Pest2\2024\240627A\P2240627a-02.D•

Data Path : I:\PCB\Pest2\2024\240627A\
Data File : P2240627a-16.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 27 Jun 2024 10:53
Operator : pest2:mhg
Sample : WG1939973-2,42,,
Misc : WG1940092,WG1939973,ical21102
ALS Vial : 16 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 27 11:25:48 2024
Quant Method : I:\PCB\Pest2\2024\240627A\P2_pcb_05_06_24_LVI_ugL_ICAL21102.m
Quant Title : pcb
QLast Update : Wed May 08 09:27:21 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

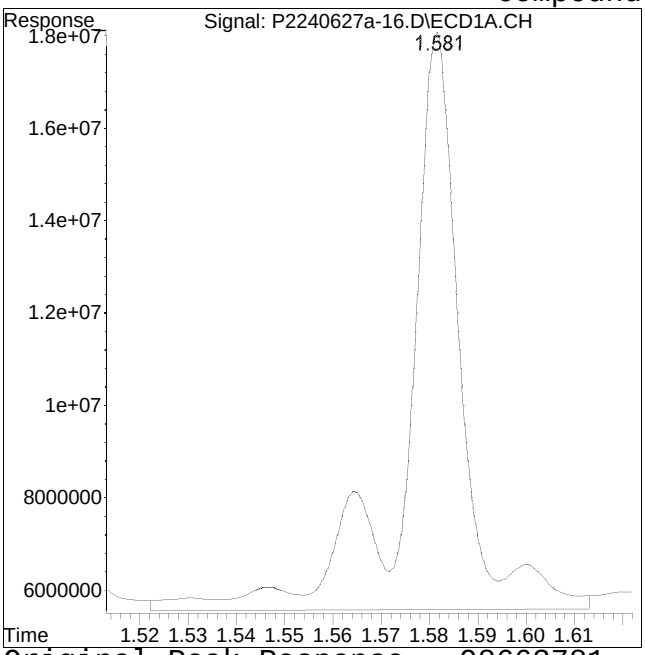
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

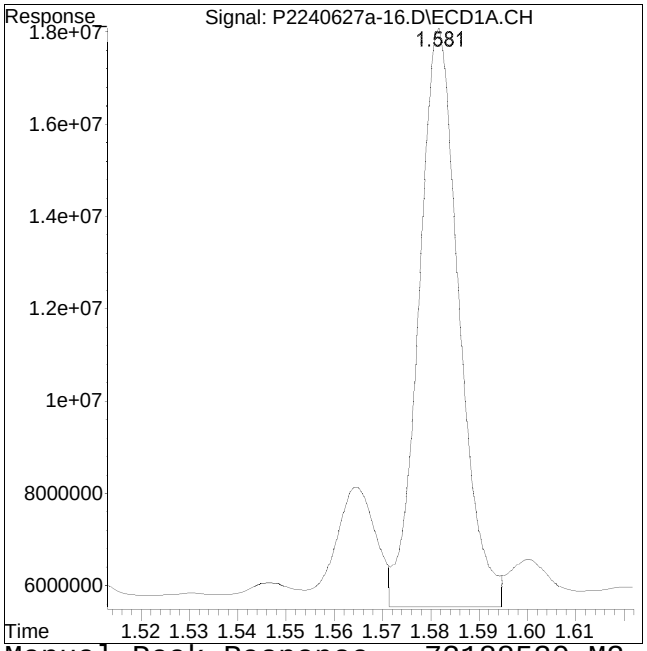


Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240627A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240627a-16.D Operator : pest2:mhg
Date Inj'd : 6/27/2024 10:53 Instrument : Pest 2
Sample : WG1939973-2,42,, Quant Date : 6/27/2024 11:25 am

Compound #4: 1016-1



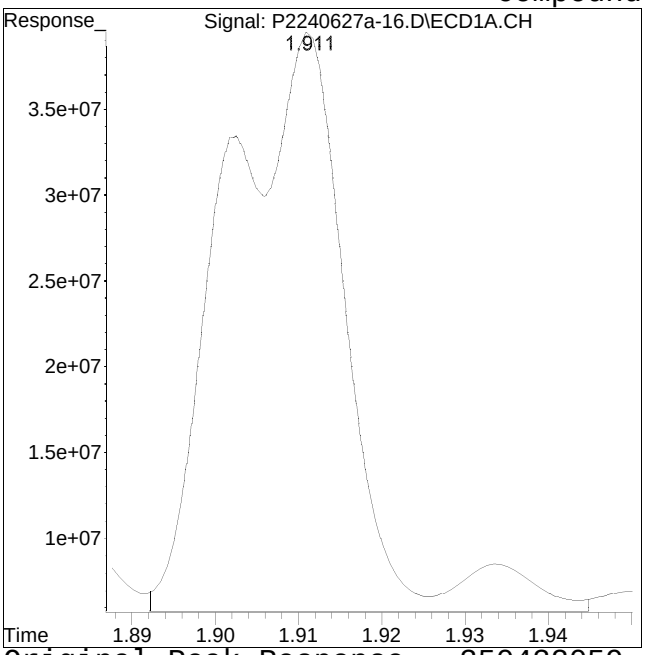


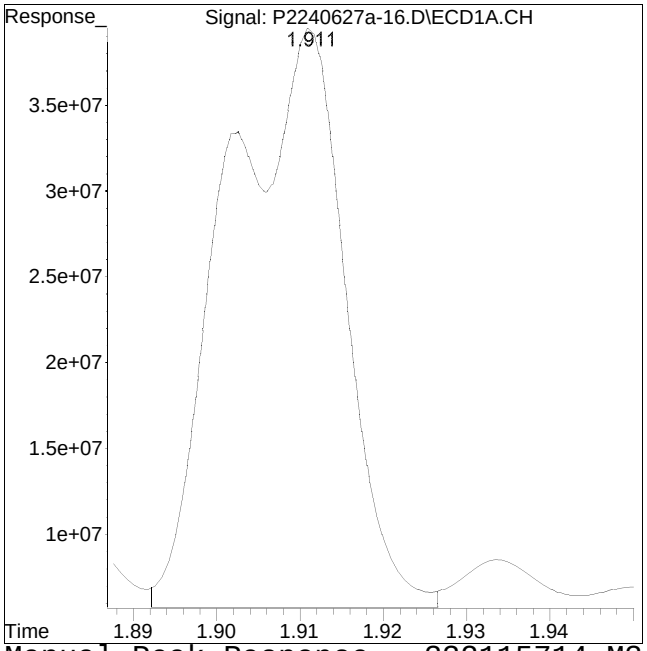
Original Peak Response = 98663781 Manual Peak Response = 72188530 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240627A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240627a-16.D Operator : pest2:mhg
Date Inj'd : 6/27/2024 10:53 Instrument : Pest 2
Sample : WG1939973-2,42,, Quant Date : 6/27/2024 11:25 am

Compound #6: 1016-3



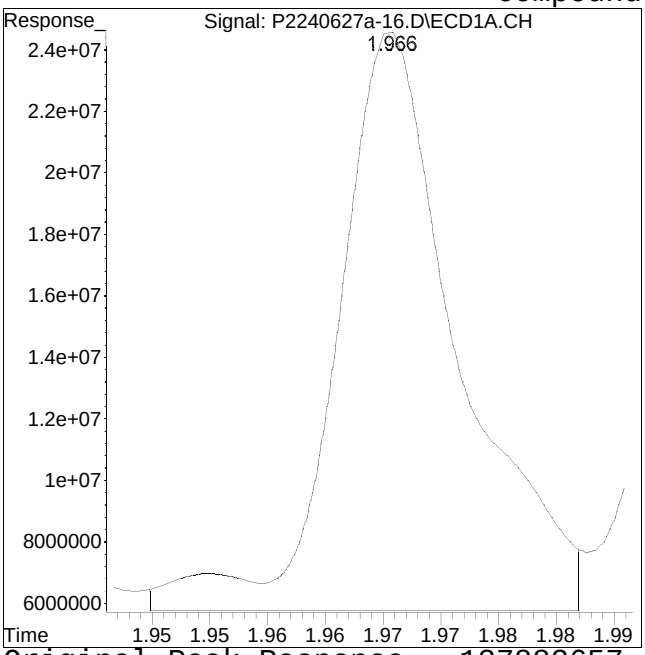


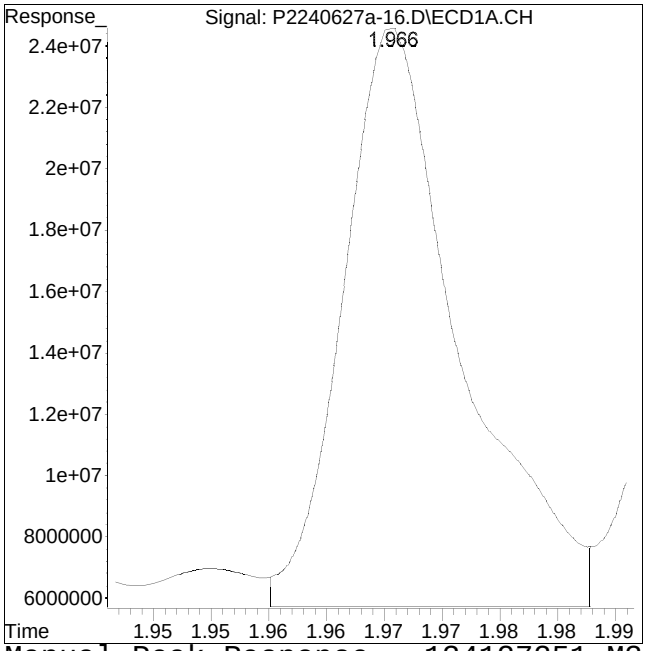
Original Peak Response = 350432059 Manual Peak Response = 332115714 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240627A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240627a-16.D Operator : pest2:mhg
Date Inj'd : 6/27/2024 10:53 Instrument : Pest 2
Sample : WG1939973-2,42,, Quant Date : 6/27/2024 11:25 am

Compound #7: 1016-4



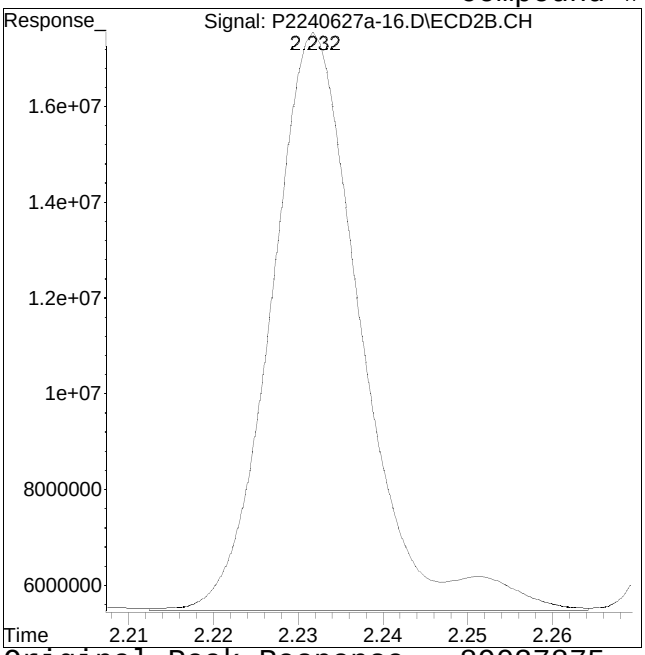


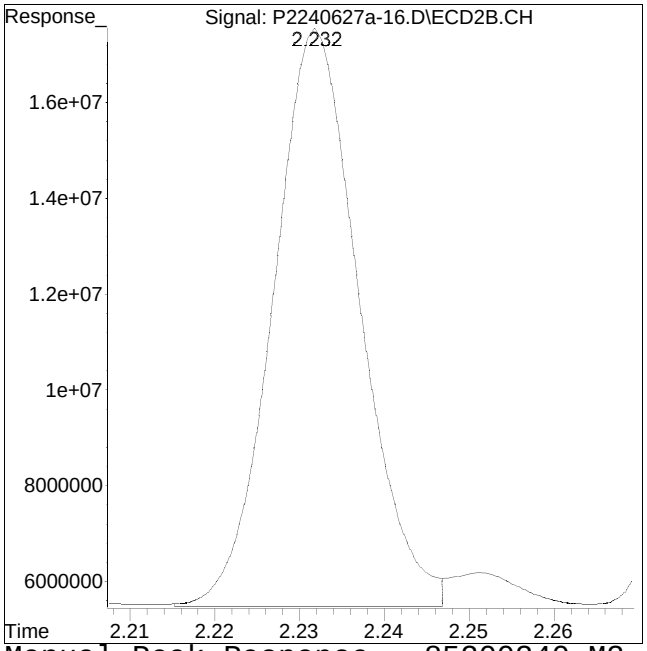
Original Peak Response = 137882657 Manual Peak Response = 134127251 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240627A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240627a-16.D Operator : pest2:mhg
Date Inj'd : 6/27/2024 10:53 Instrument : Pest 2
Sample : WG1939973-2,42,, Quant Date : 6/27/2024 11:25 am

Compound #58: 1016-4 #2



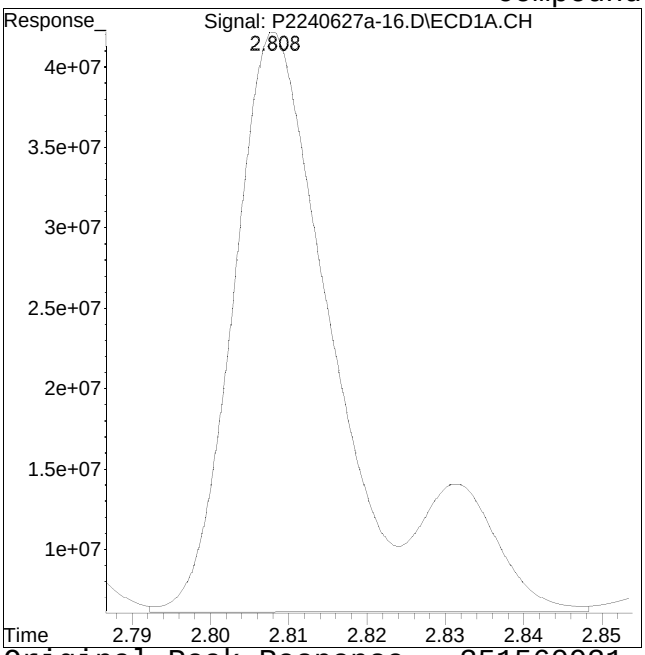


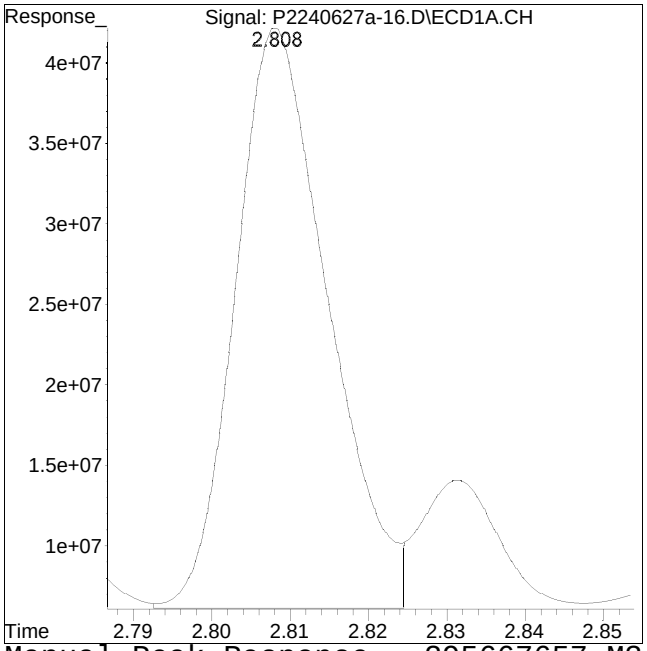
Original Peak Response = 89037875 Manual Peak Response = 85200340 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240627A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240627a-16.D Operator : pest2:mhg
Date Inj'd : 6/27/2024 10:53 Instrument : Pest 2
Sample : WG1939973-2,42,, Quant Date : 6/27/2024 11:25 am

Compound #10: 1260-2



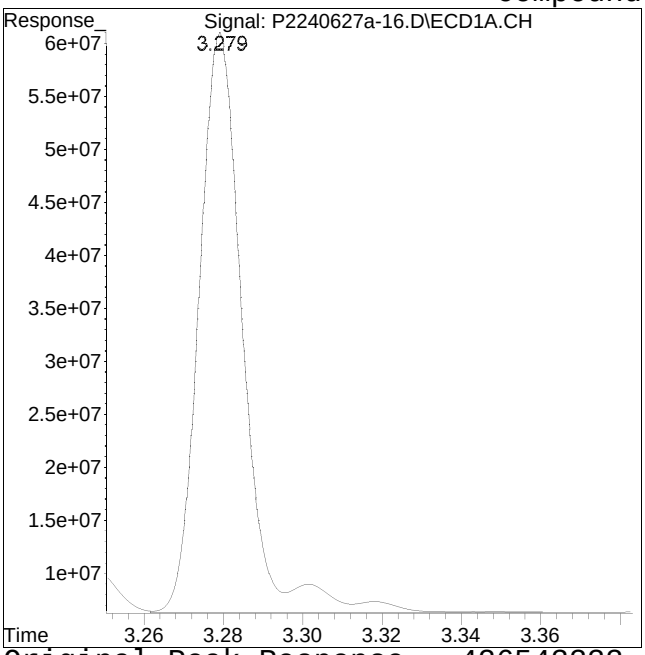


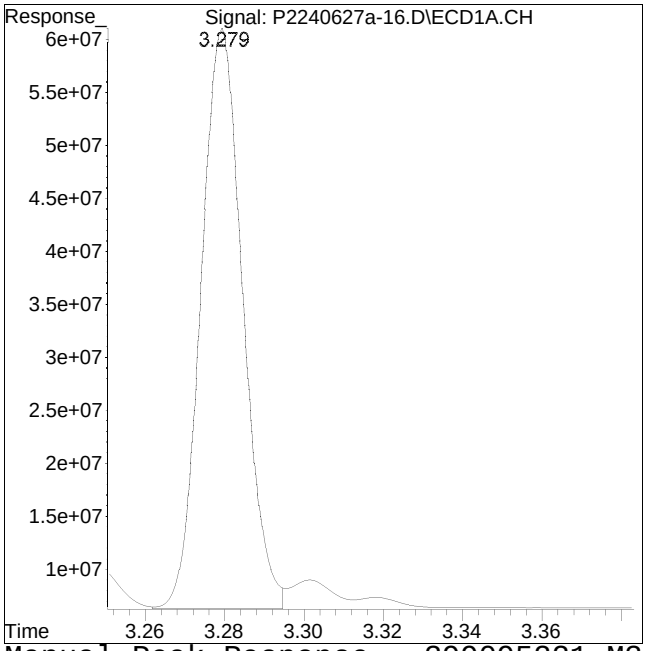
Original Peak Response = 351560931 Manual Peak Response = 295667657 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240627A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240627a-16.D Operator : pest2:mhg
Date Inj'd : 6/27/2024 10:53 Instrument : Pest 2
Sample : WG1939973-2,42,, Quant Date : 6/27/2024 11:25 am

Compound #12: 1260-4





Original Peak Response = 426543333 Manual Peak Response = 399095221 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240627A\
Data File : P2240627a-17.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 27 Jun 2024 11:01
Operator : pest2:mhg
Sample : WG1939973-3,42,,
Misc : WG1940092,WG1939973,ical21102
ALS Vial : 17 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 27 11:25:51 2024
Quant Method : I:\PCB\Pest2\2024\240627A\P2_pcb_05_06_24_LVI_ugL_ICAL21102.m
Quant Title : pcb
QLast Update : Wed May 08 09:27:21 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PCB\Pest2\2024\240627A\P2240627a-02.D
Sub List : 1660 - 1660

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Internal Standards						
1) i 1660_1br2nb	1.160	1.229	410.6E6	274.8E6	25.000	25.000
Standard Area 1 : #1 = 386975749				Recovery =	106.10%	
Standard Area 1 : #2 = 277930109				Recovery =	98.86%	
System Monitoring Compounds						
2) s 2,4,5,6-Tetr	1.443	1.602	339.0E6	225.4E6	15.748M3	16.651
Spiked Amount 20.000	Range 30 - 150		Recovery =	78.74%	83.25%	
3) s Decachlorobi	4.012	4.526	241.1E6	171.5E6	17.331	26.897
Spiked Amount 20.000	Range 30 - 150		Recovery =	86.65%	134.48%	
Target Compounds						
4) l1 1016-1	1.582	1.802	70515779	52266600	191.327M3	226.022
5) l1 1016-2	1.724	1.972	164.6E6	126.4E6	203.714	248.780
6) l1 1016-3	1.911	2.173	327.0E6	238.9E6	196.910M3	235.128
7) l1 1016-4	1.966	2.232	130.5E6	91123351	197.093M3	242.498M3
8) l1 1016-5	2.135	2.443	138.1E6	83828559	187.981M4	263.196
Sum 1016-1			830.7E6	592.5E6	977.025	1215.625
Average 1016-1					195.405	243.125
9) l2 1260-1	2.678	3.051	190.8E6	154.5E6	179.978	260.421M4
10) l2 1260-2	2.808	3.152	293.5E6	169.9E6	183.640M3	250.345M4
11) l2 1260-3	3.124	3.544	183.7E6	147.2E6	184.986M4	279.736
12) l2 1260-4	3.280	3.674	400.9E6	290.0E6	188.471M3	274.092
13) l2 1260-5	3.427	3.875	290.6E6	209.2E6	194.925M4	288.439
Sum 1260-1			1359.5E6	970.8E6	932.000	1353.034
Average 1260-1					186.400	270.607
Sum 1221-2			0	0	N.D.	N.D.
Average 1221-2					0.000	0.000
Sum 1254-1			0	0	N.D.	N.D.
Average 1254-1					0.000	0.000

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240627A\
Data File : P2240627a-17.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 27 Jun 2024 11:01
Operator : pest2:mhg
Sample : WG1939973-3,42,,
Misc : WG1940092,WG1939973,ical21102
ALS Vial : 17 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 27 11:25:51 2024
Quant Method : I:\PCB\Pest2\2024\240627A\P2_pcb_05_06_24_LVI_ugL_ICAL21102.m
Quant Title : pcb
QLast Update : Wed May 08 09:27:21 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PCB\Pest2\2024\240627A\P2240627a-02.D
Sub List : 1660 - 1660

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Sum 1242-1			0	0	N.D.	N.D.
Average 1242-1					0.000	0.000
Sum 1268-1			0	0	N.D.	N.D.
Average 1268-1					0.000	0.000
Sum 1248-1			0	0	N.D.	N.D.
Average 1248-1					0.000	0.000
Sum 1232-1			0	0	N.D.	N.D.
Average 1232-1					0.000	0.000
Sum 1262-1			0	0	N.D.	N.D.
Average 1262-1					0.000	0.000
SemiQuant Compounds - Not Calibrated on this Instrument						
Sum 1262-1			0	0	N.D.	N.D.
Average 1262-1					0.000	0.000

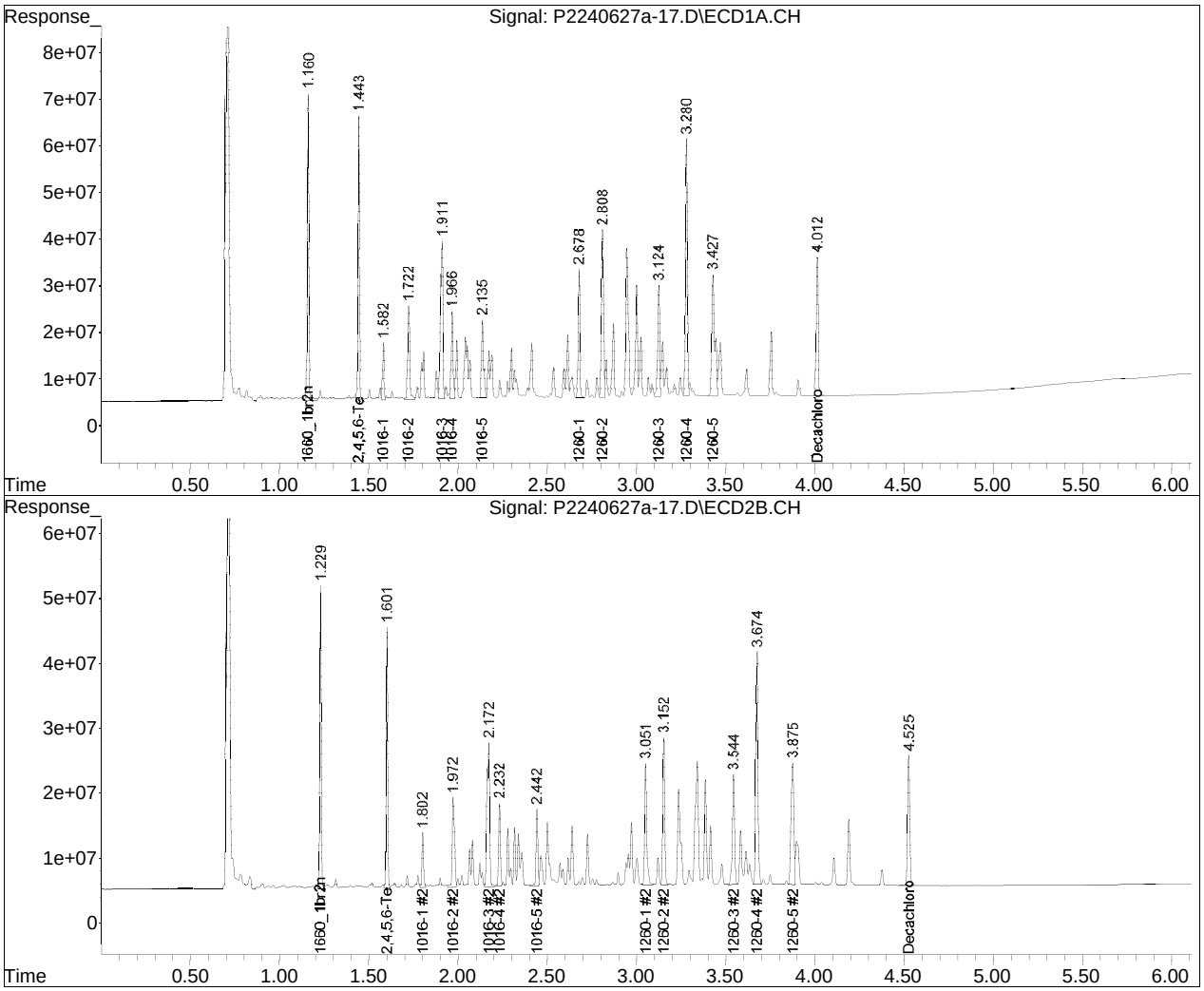
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : 1660 - 1660Pest2\2024\240627A\P2240627a-02.D•

Data Path : I:\PCB\Pest2\2024\240627A\
Data File : P2240627a-17.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 27 Jun 2024 11:01
Operator : pest2:mhg
Sample : WG1939973-3,42,,
Misc : WG1940092,WG1939973,ical21102
ALS Vial : 17 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 27 11:25:51 2024
Quant Method : I:\PCB\Pest2\2024\240627A\P2_pcb_05_06_24_LVI_ugL_ICAL21102.m
Quant Title : pcb
QLast Update : Wed May 08 09:27:21 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

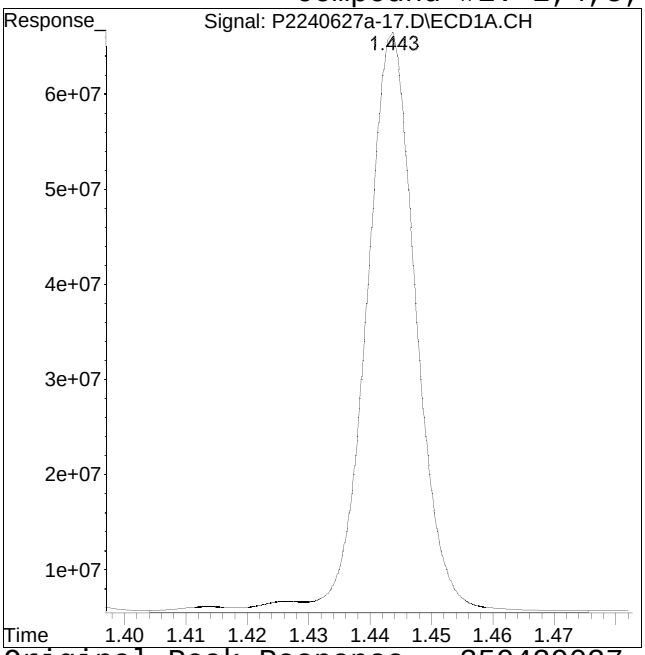
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

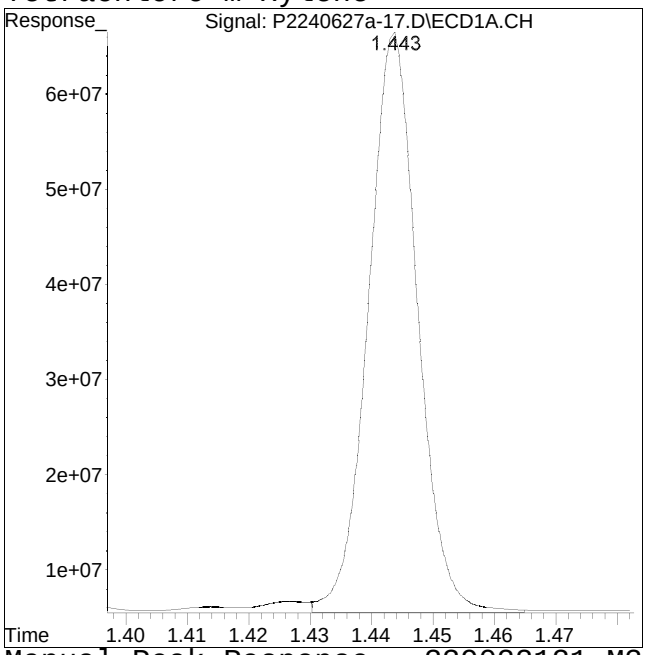


Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240627A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240627a-17.D Operator : pest2:mhg
Date Inj'd : 6/27/2024 11:01 Instrument : Pest 2
Sample : WG1939973-3,42,, Quant Date : 6/27/2024 11:25 am

Compound #2: 2,4,5,6-Tetrachloro-m-xylene



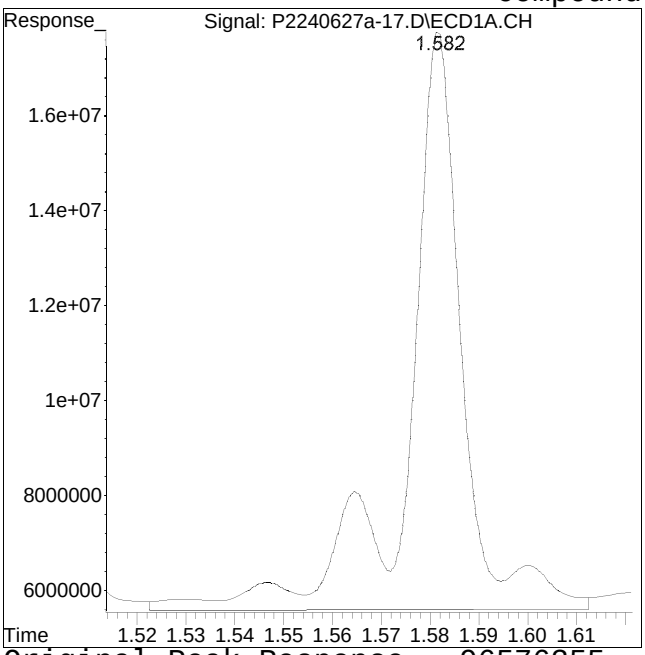


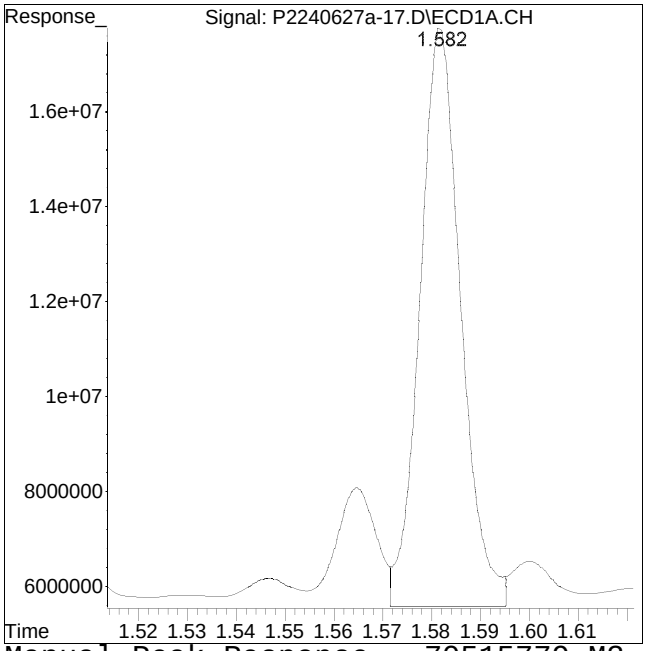
Original Peak Response = 350439037 Manual Peak Response = 339022121 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240627A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240627a-17.D Operator : pest2:mhg
Date Inj'd : 6/27/2024 11:01 Instrument : Pest 2
Sample : WG1939973-3,42,, Quant Date : 6/27/2024 11:25 am

Compound #4: 1016-1



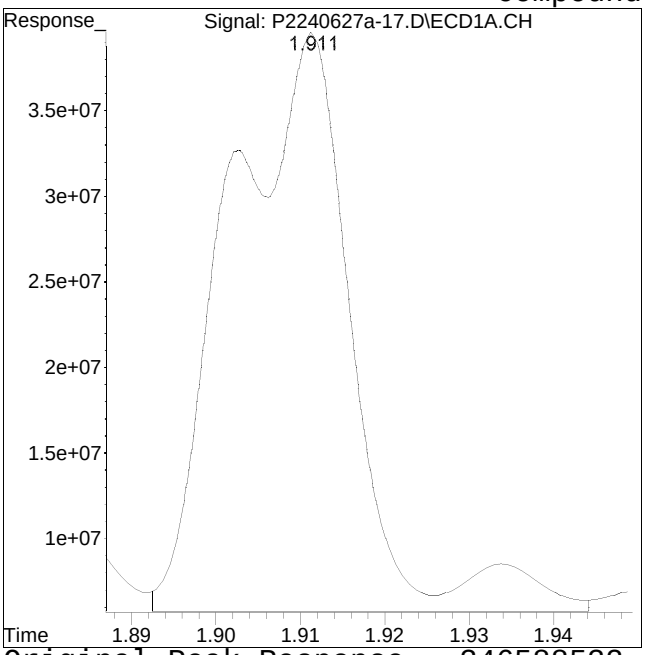


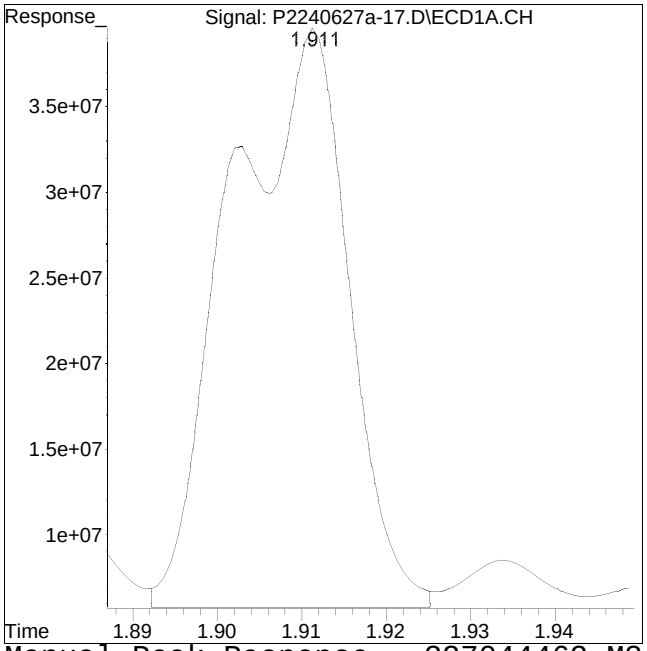
Original Peak Response = 96576355 Manual Peak Response = 70515779 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240627A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240627a-17.D Operator : pest2:mhg
Date Inj'd : 6/27/2024 11:01 Instrument : Pest 2
Sample : WG1939973-3,42,, Quant Date : 6/27/2024 11:25 am

Compound #6: 1016-3



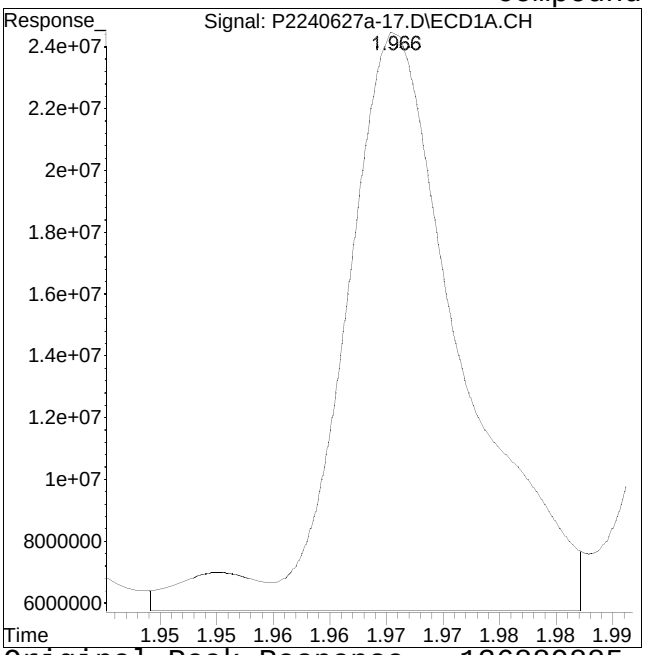


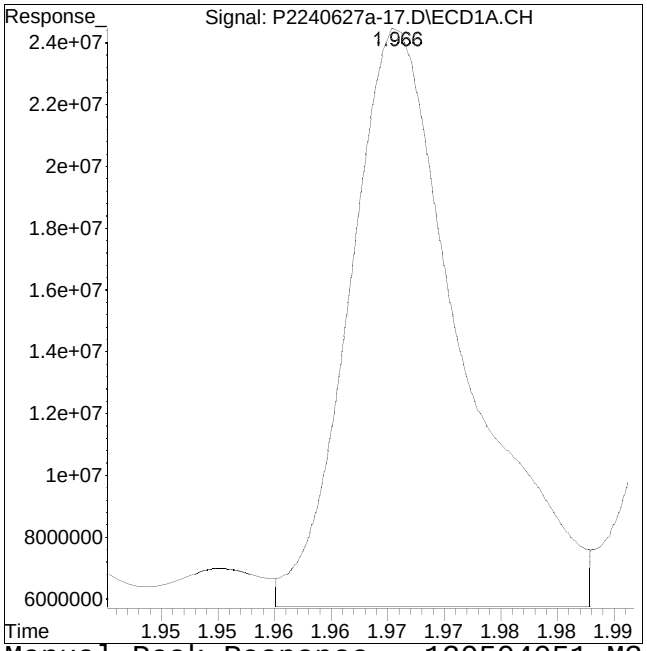
Original Peak Response = 346588532 Manual Peak Response = 327044462 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240627A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240627a-17.D Operator : pest2:mhg
Date Inj'd : 6/27/2024 11:01 Instrument : Pest 2
Sample : WG1939973-3,42,, Quant Date : 6/27/2024 11:25 am

Compound #7: 1016-4



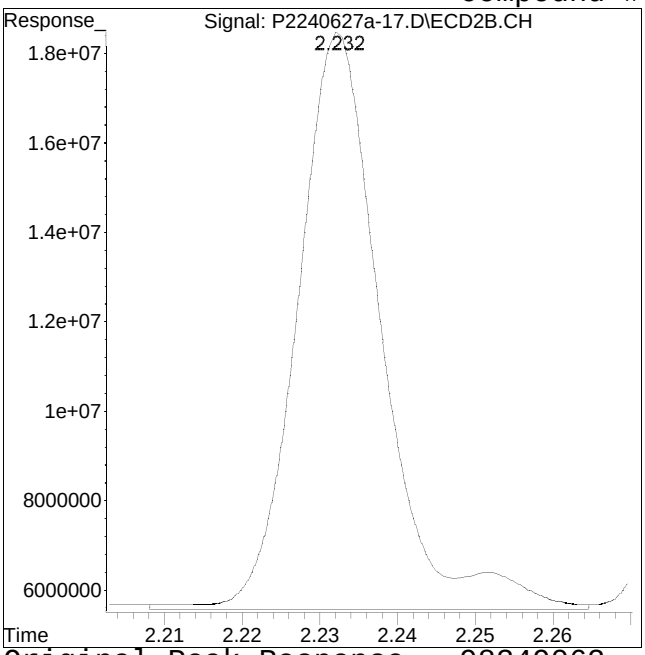


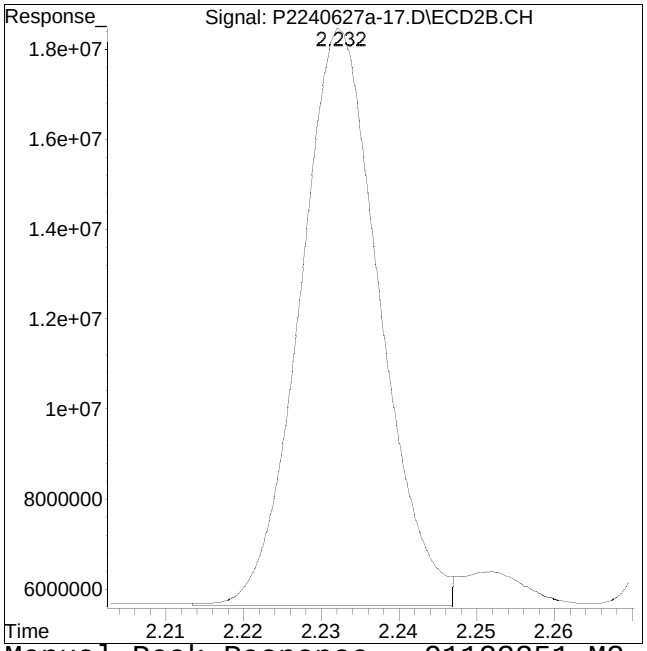
Original Peak Response = 136889885 Manual Peak Response = 130504051 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240627A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240627a-17.D Operator : pest2:mhg
Date Inj'd : 6/27/2024 11:01 Instrument : Pest 2
Sample : WG1939973-3,42,, Quant Date : 6/27/2024 11:25 am

Compound #58: 1016-4 #2



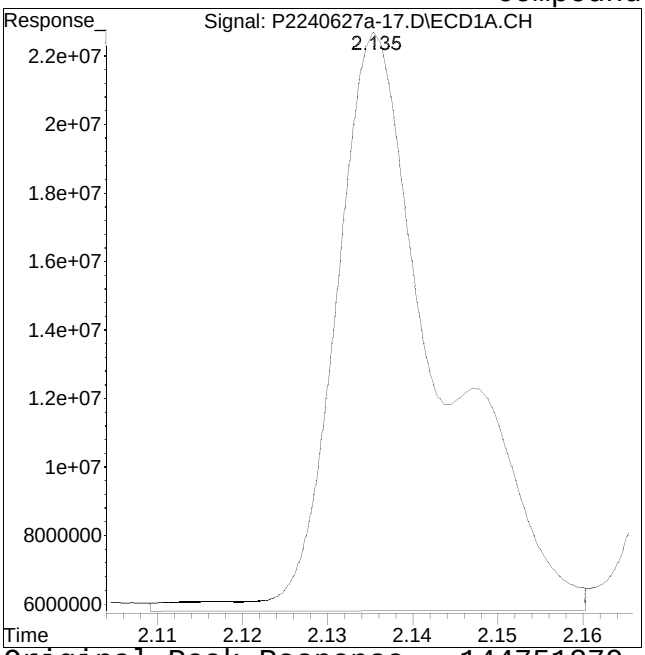


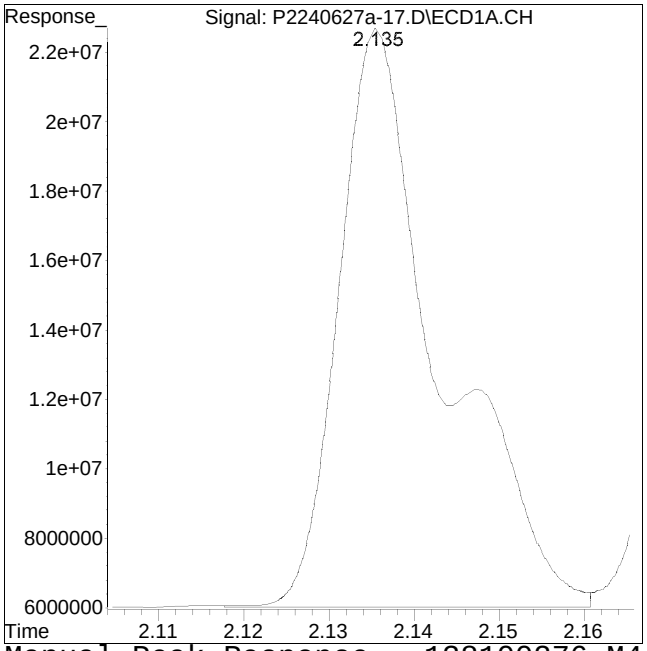
Original Peak Response = 98349062 Manual Peak Response = 91123351 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240627A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240627a-17.D Operator : pest2:mhg
Date Inj'd : 6/27/2024 11:01 Instrument : Pest 2
Sample : WG1939973-3,42,, Quant Date : 6/27/2024 11:25 am

Compound #8: 1016-5



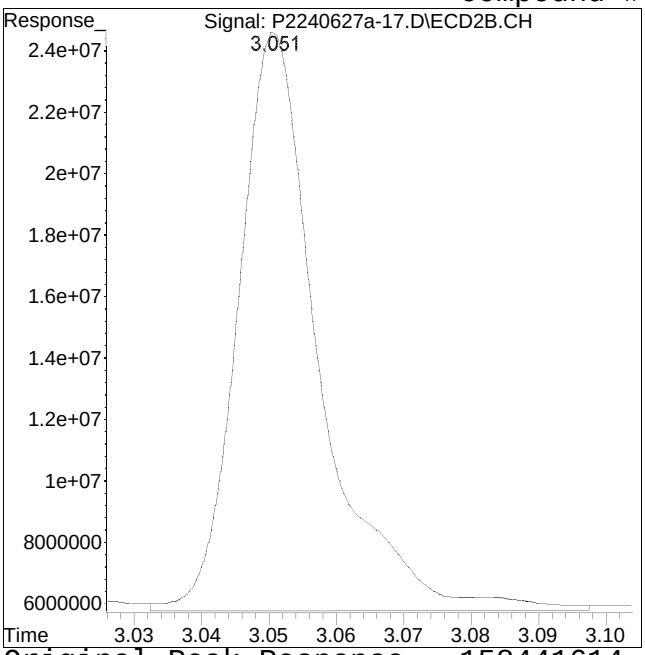


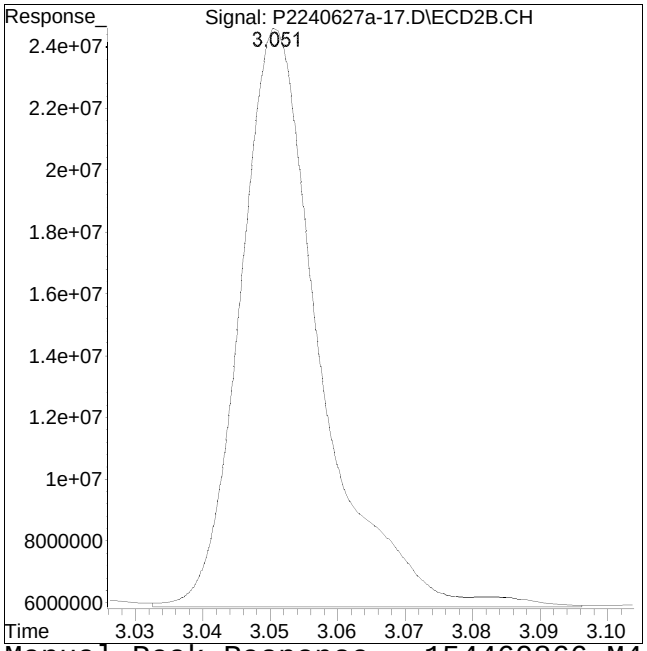
Original Peak Response = 144751279 Manual Peak Response = 138100276 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240627A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240627a-17.D Operator : pest2:mhg
Date Inj'd : 6/27/2024 11:01 Instrument : Pest 2
Sample : WG1939973-3,42,, Quant Date : 6/27/2024 11:25 am

Compound #60: 1260-1 #2



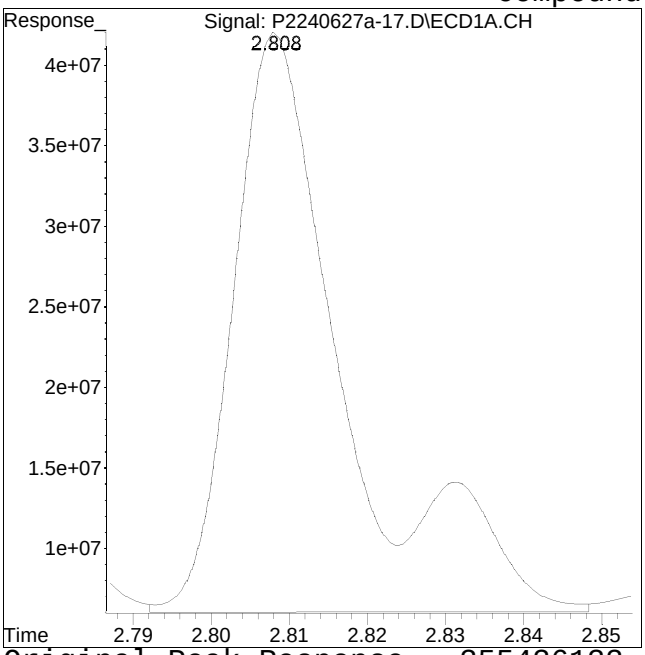


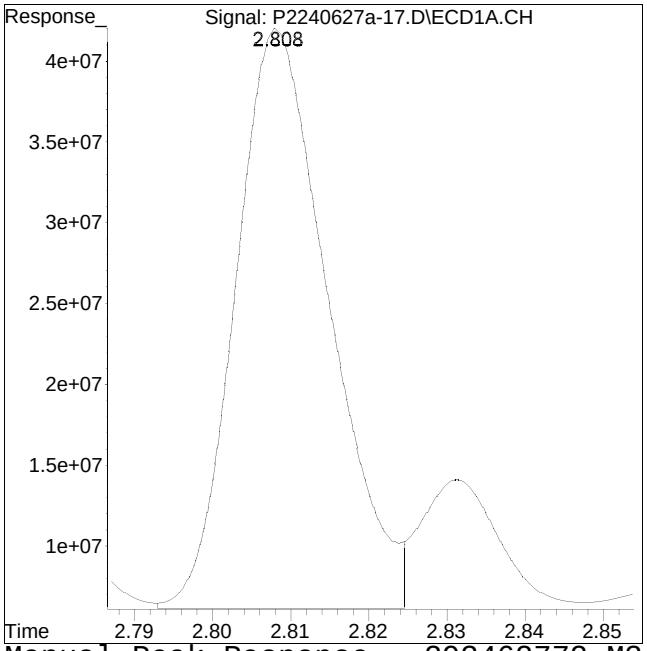
Original Peak Response = 158441614 Manual Peak Response = 154460866 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240627A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240627a-17.D Operator : pest2:mhg
Date Inj'd : 6/27/2024 11:01 Instrument : Pest 2
Sample : WG1939973-3,42,, Quant Date : 6/27/2024 11:25 am

Compound #10: 1260-2



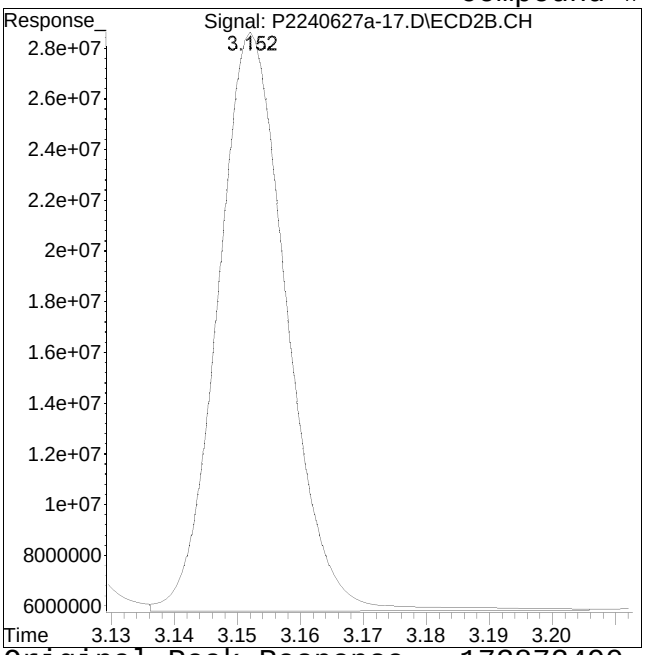


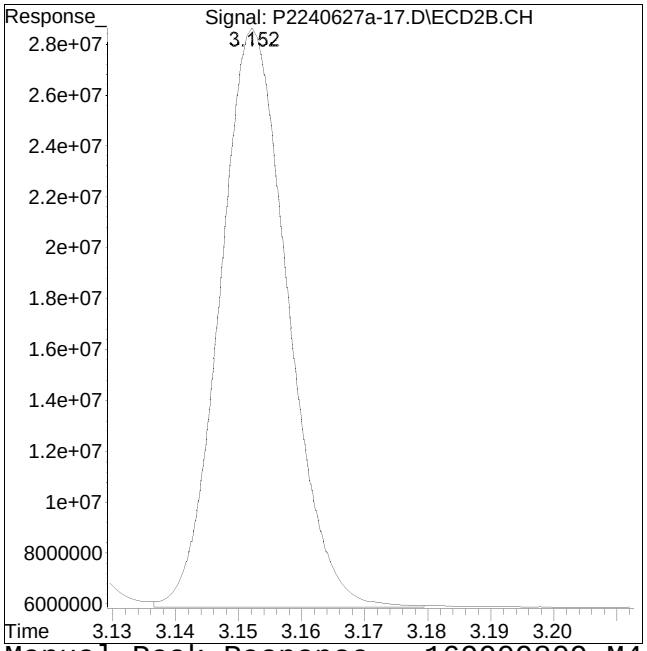
Original Peak Response = 355436133 Manual Peak Response = 293462772 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240627A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240627a-17.D Operator : pest2:mhg
Date Inj'd : 6/27/2024 11:01 Instrument : Pest 2
Sample : WG1939973-3,42,, Quant Date : 6/27/2024 11:25 am

Compound #61: 1260-2 #2



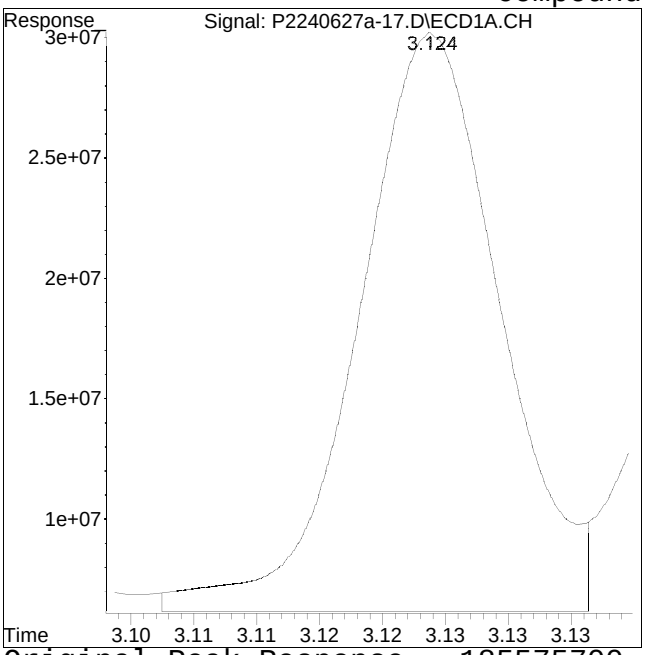


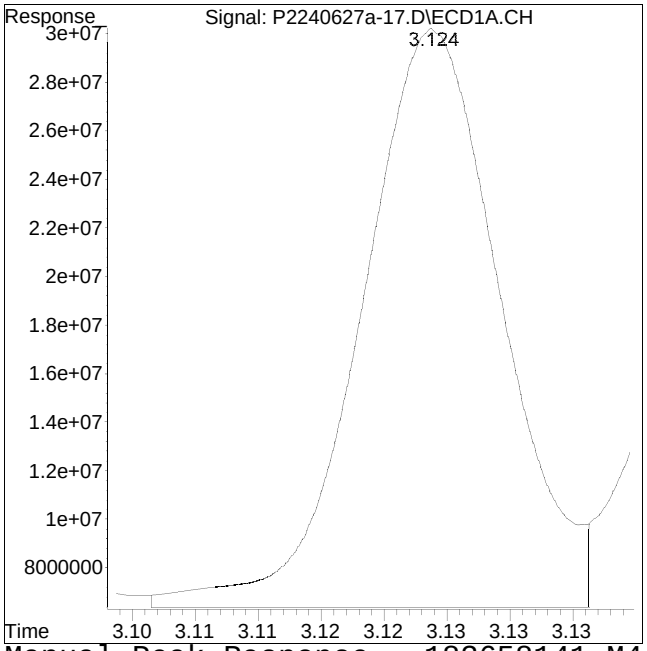
Original Peak Response = 173872490 Manual Peak Response = 169909809 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240627A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240627a-17.D Operator : pest2:mhg
Date Inj'd : 6/27/2024 11:01 Instrument : Pest 2
Sample : WG1939973-3,42,, Quant Date : 6/27/2024 11:25 am

Compound #11: 1260-3



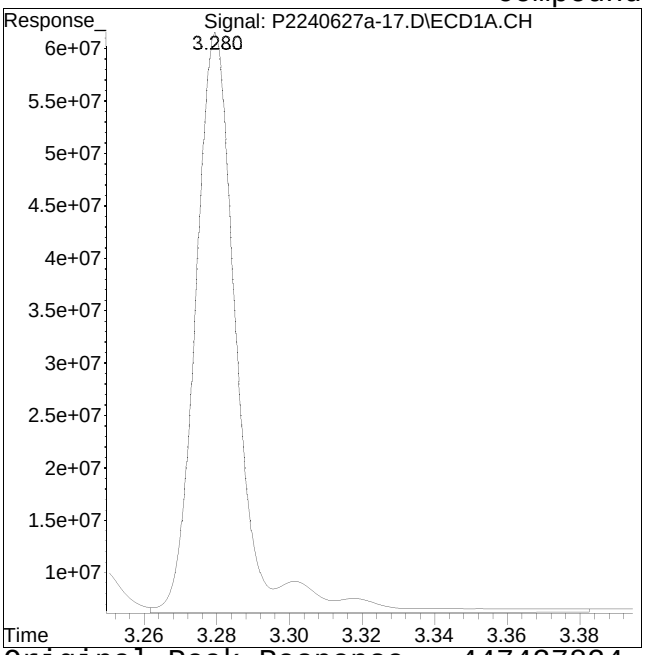


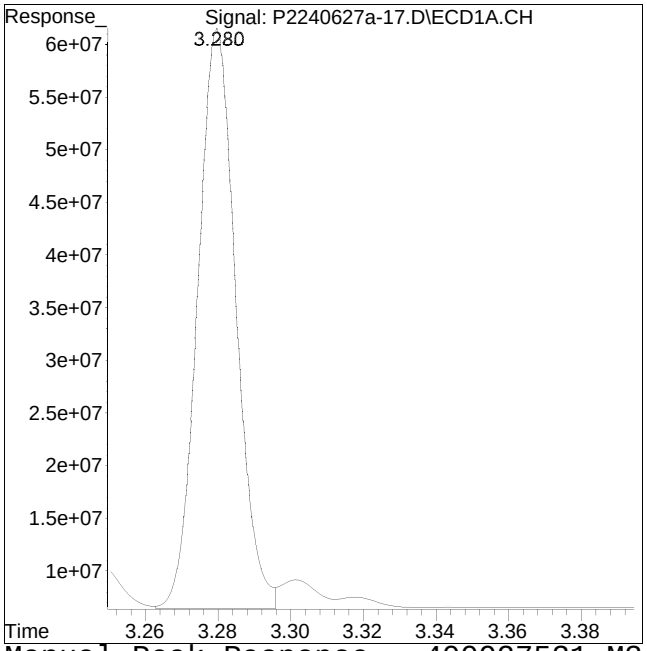
Original Peak Response = 185575700 Manual Peak Response = 183658141 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240627A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240627a-17.D Operator : pest2:mhg
Date Inj'd : 6/27/2024 11:01 Instrument : Pest 2
Sample : WG1939973-3,42,, Quant Date : 6/27/2024 11:25 am

Compound #12: 1260-4





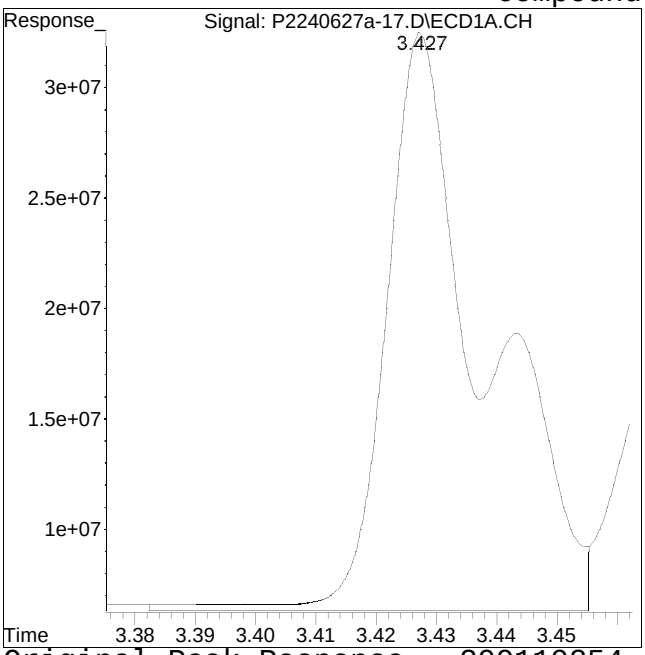
Original Peak Response = 447437824 Manual Peak Response = 400927531 M3

M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

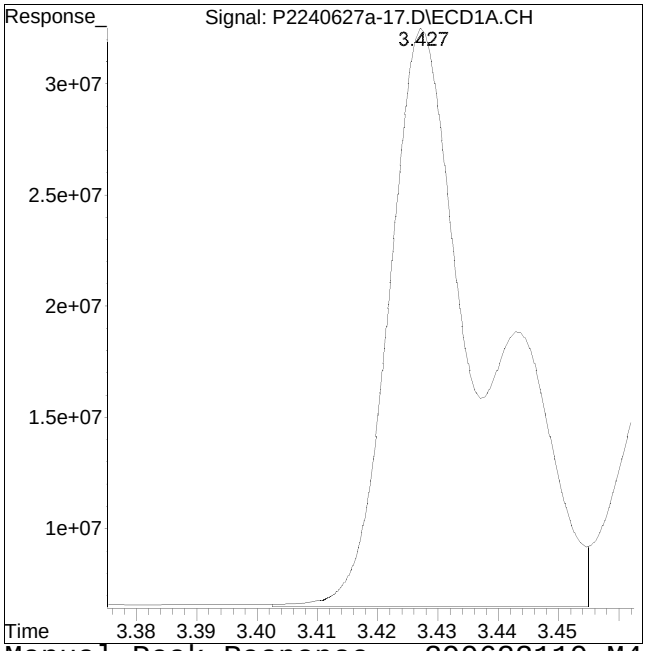
Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240627A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240627a-17.D Operator : pest2:mhg
Date Inj'd : 6/27/2024 11:01 Instrument : Pest 2
Sample : WG1939973-3,42,, Quant Date : 6/27/2024 11:25 am

Compound #13: 1260-5



Original Peak Response = 299119254



Manual Peak Response = 290623110 M4

M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240627A\
Data File : P2240627a-25.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 27 Jun 2024 12:11
Operator : pest2:mhg
Sample : WG1939973-4,42,, ms
Misc : WG1940092,WG1939973,ical21102
ALS Vial : 25 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 27 12:23:28 2024
Quant Method : I:\PCB\Pest2\2024\240627A\P2_pcb_05_06_24_LVI_ugL_ICAL21102.m
Quant Title : pcb
QLast Update : Wed May 08 09:27:21 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PCB\Pest2\2024\240627A\P2240627a-02.D
Sub List : 1660 - 1660

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Internal Standards							
1) i	1660_1br2nb	1.160	1.229	406.6E6	277.9E6	25.000M4	25.000M4
	Standard Area 1 : #1 = 386975749				Recovery = 105.06%		
	Standard Area 1 : #2 = 277930109				Recovery = 100.01%		
System Monitoring Compounds							
2) s	2,4,5,6-Tetr	1.444	1.602	338.9E6	226.4E6	15.899M3	16.534
	Spiked Amount 20.000	Range 30 - 150		Recovery = 79.49%		82.67%	
3) s	Decachlorobi	4.014	4.524	244.6E6	173.1E6	17.754	26.839
	Spiked Amount 20.000	Range 30 - 150		Recovery = 88.77%		134.19%	
Target Compounds							
4) l1	1016-1	1.582	1.802	68040748	50267215	186.439M4	214.888M4
5) l1	1016-2	1.723	1.972	158.6E6	109.8E6	198.342M1	213.767M3
6) l1	1016-3	1.911	2.173	320.3E6	231.1E6	194.767M4	224.830M4
7) l1	1016-4	1.966	2.232	128.1E6	88736192	195.435M4	233.443M3
8) l1	1016-5	2.136	2.443	137.2E6	86271432	188.555M4	267.767
	Sum 1016-1			812.3E6	566.2E6	963.539	1154.695
	Average 1016-1					192.708	230.939
9) l2	1260-1	2.679	3.051	186.1E6	155.9E6	177.258	259.768M4
10) l2	1260-2	2.809	3.153	289.8E6	166.1E6	183.131	241.981M4
11) l2	1260-3	3.125	3.545	177.4E6	148.7E6	180.448M4	279.322
12) l2	1260-4	3.280	3.675	393.1E6	287.3E6	186.611M4	268.474
13) l2	1260-5	3.428	3.875	282.3E6	206.7E6	191.198M1	281.717
	Sum 1260-1			1328.6E6	964.7E6	918.646	1331.263
	Average 1260-1					183.729	266.253
	Sum 1221-2			0	0	N.D.	N.D.
	Average 1221-2					0.000	0.000
	Sum 1254-1			0	0	N.D.	N.D.

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240627A\
Data File : P2240627a-25.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 27 Jun 2024 12:11
Operator : pest2:mhg
Sample : WG1939973-4,42,, ms
Misc : WG1940092,WG1939973,ical21102
ALS Vial : 25 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 27 12:23:28 2024
Quant Method : I:\PCB\Pest2\2024\240627A\P2_pcb_05_06_24_LVI_ugL_ICAL21102.m
Quant Title : pcb
QLast Update : Wed May 08 09:27:21 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PCB\Pest2\2024\240627A\P2240627a-02.D
Sub List : 1660 - 1660

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Average 1254-1					0.000	0.000
Sum 1242-1			0	0	N.D.	N.D.
Average 1242-1					0.000	0.000
Sum 1268-1			0	0	N.D.	N.D.
Average 1268-1					0.000	0.000
Sum 1248-1			0	0	N.D.	N.D.
Average 1248-1					0.000	0.000
Sum 1232-1			0	0	N.D.	N.D.
Average 1232-1					0.000	0.000
Sum 1262-1			0	0	N.D.	N.D.
Average 1262-1					0.000	0.000
SemiQuant Compounds - Not Calibrated on this Instrument						
Sum 1262-1			0	0	N.D.	N.D.
Average 1262-1					0.000	0.000

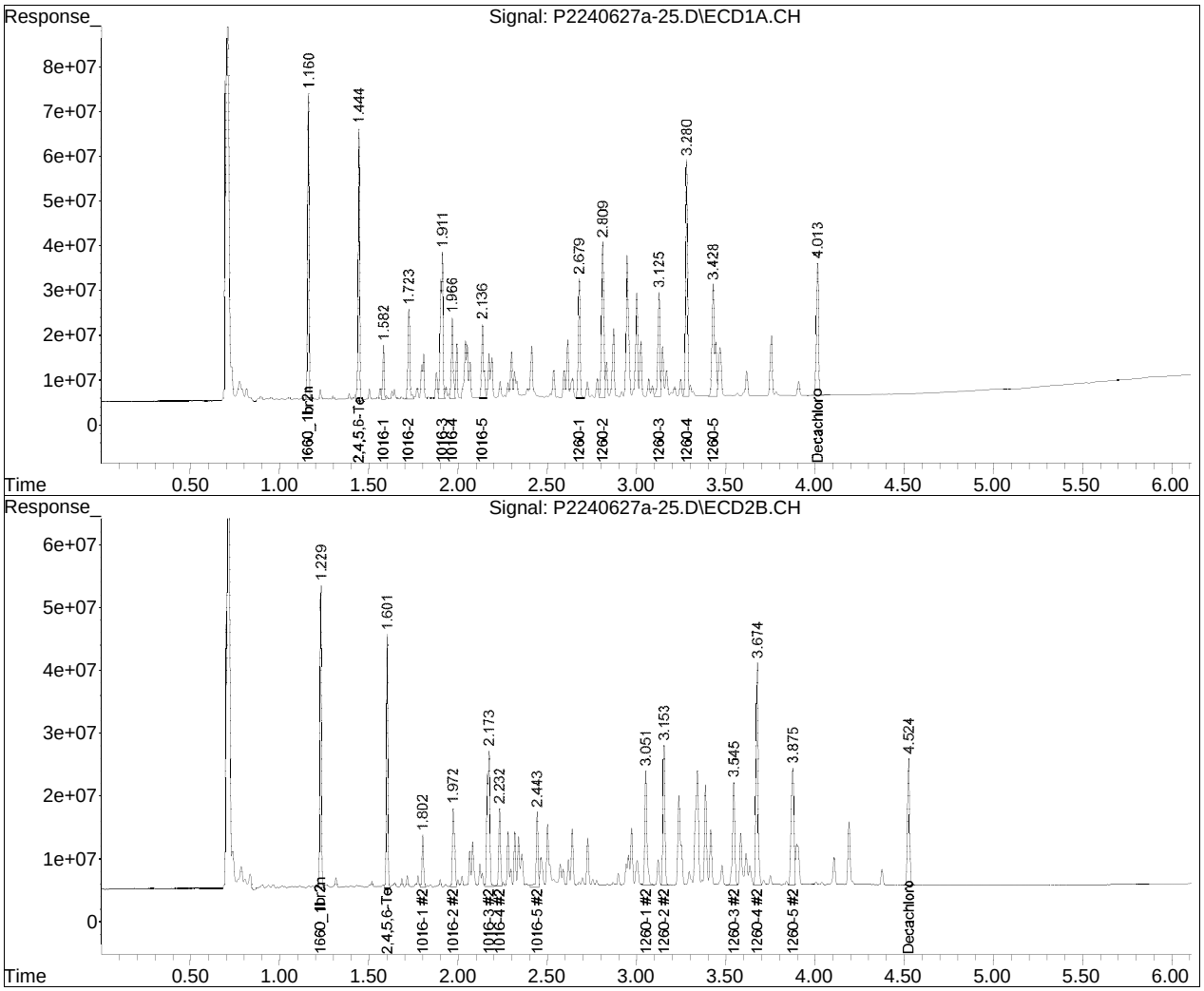
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : 1660 - 1660Pest2\2024\240627A\P2240627a-02.D•

Data Path : I:\PCB\Pest2\2024\240627A\
Data File : P2240627a-25.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 27 Jun 2024 12:11
Operator : pest2:mhg
Sample : WG1939973-4,42,, ms
Misc : WG1940092,WG1939973,ical21102
ALS Vial : 25 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 27 12:23:28 2024
Quant Method : I:\PCB\Pest2\2024\240627A\P2_pcb_05_06_24_LVI_ugL_ICAL21102.m
Quant Title : pcb
QLast Update : Wed May 08 09:27:21 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

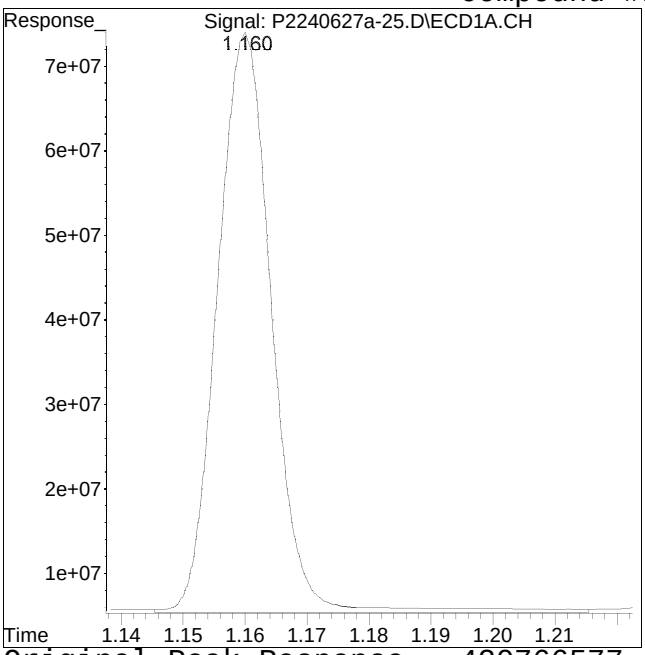
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

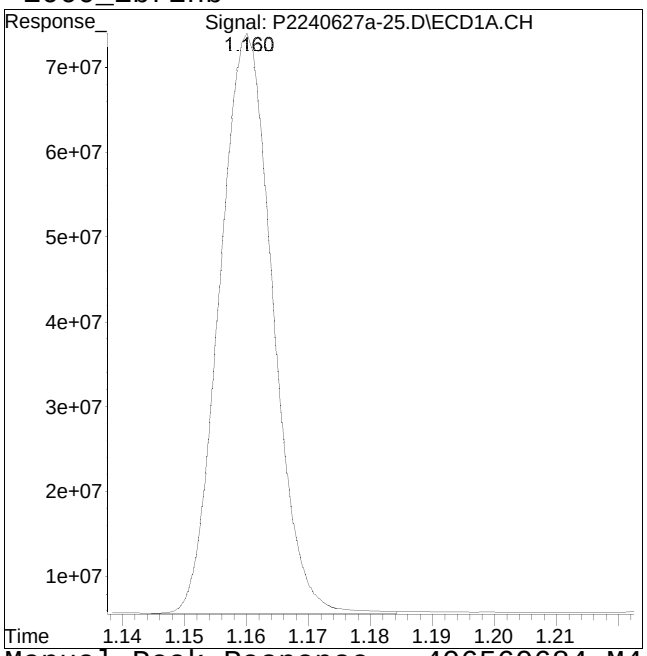


Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240627A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240627a-25.D Operator : pest2:mhg
Date Inj'd : 6/27/2024 12:11 Instrument : Pest 2
Sample : WG1939973-4,42,, ms Quant Date : 6/27/2024 12:23 pm

Compound #1: 1660_1br2nb



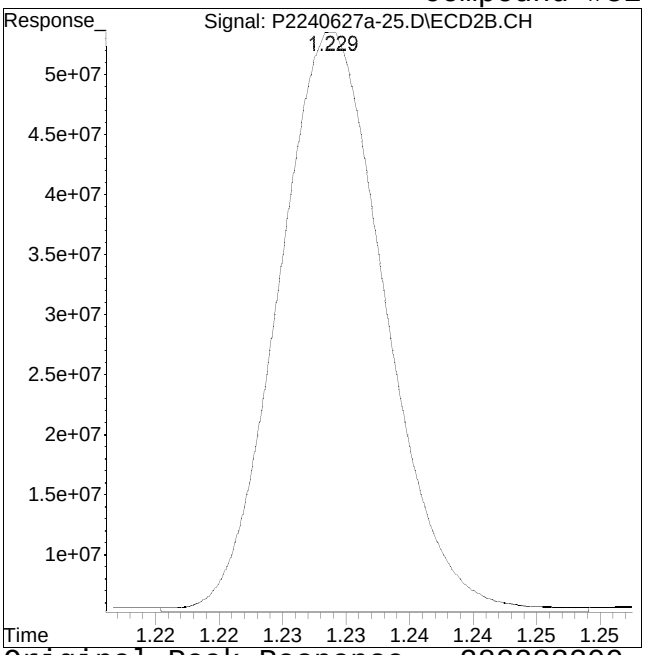


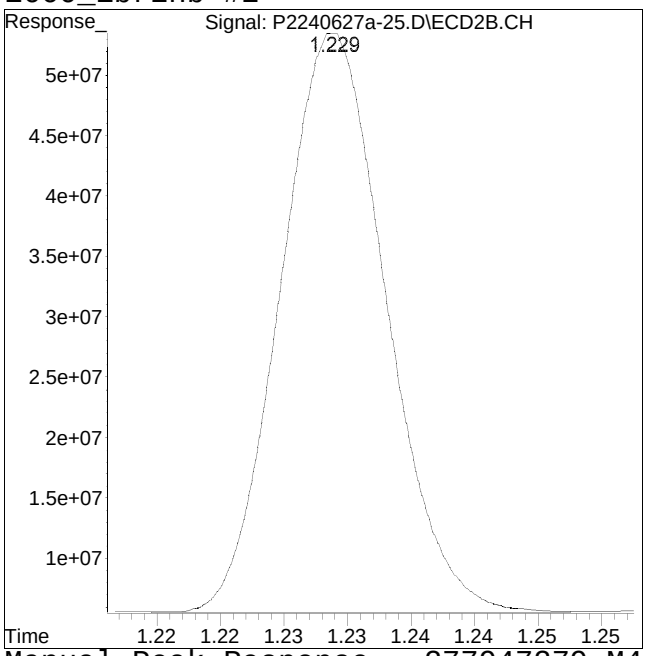
Original Peak Response = 420766577 Manual Peak Response = 406560684 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240627A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240627a-25.D Operator : pest2:mhg
Date Inj'd : 6/27/2024 12:11 Instrument : Pest 2
Sample : WG1939973-4,42,, ms Quant Date : 6/27/2024 12:23 pm

Compound #52: 1660_1br2nb #2



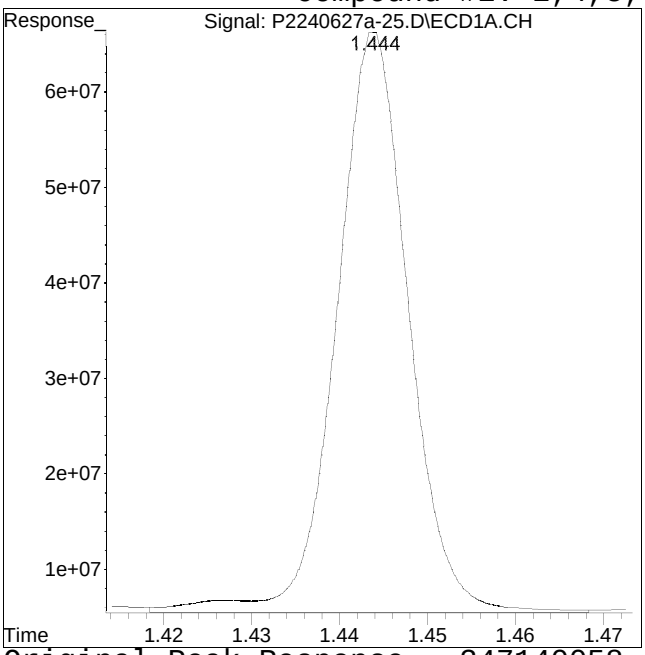


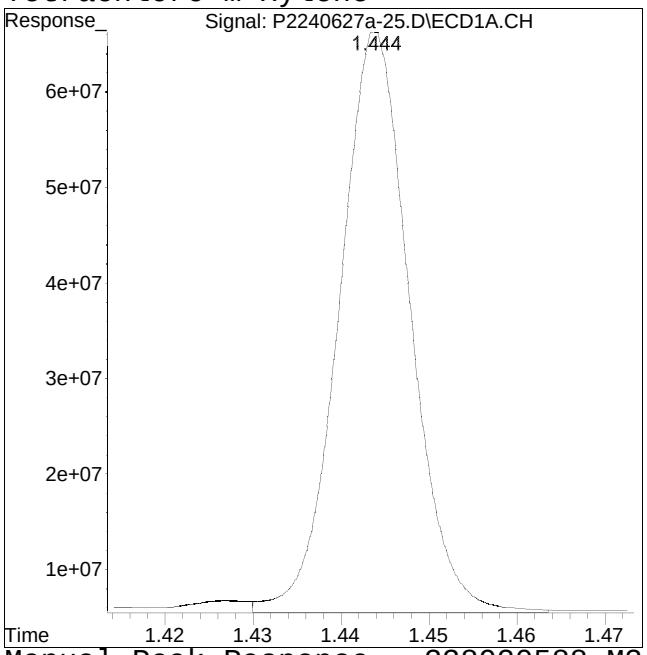
Original Peak Response = 283233300 Manual Peak Response = 277947279 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240627A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240627a-25.D Operator : pest2:mhg
Date Inj'd : 6/27/2024 12:11 Instrument : Pest 2
Sample : WG1939973-4,42,, ms Quant Date : 6/27/2024 12:23 pm

Compound #2: 2,4,5,6-Tetrachloro-m-xylene



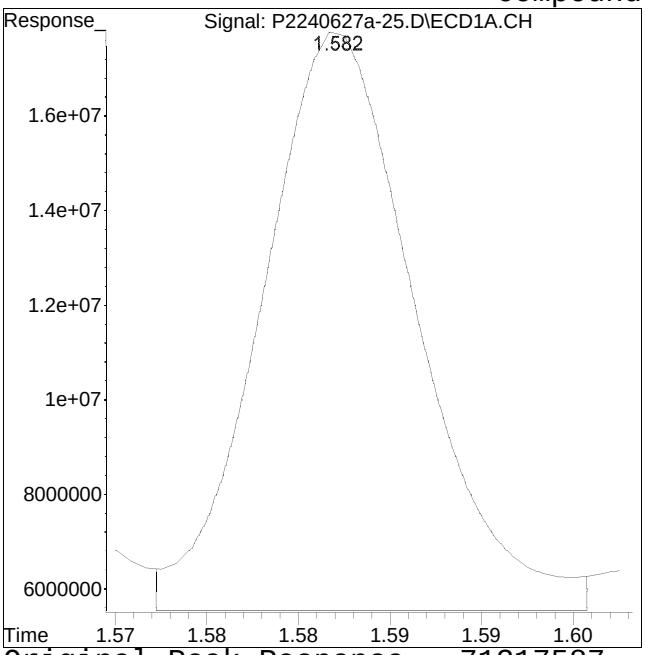


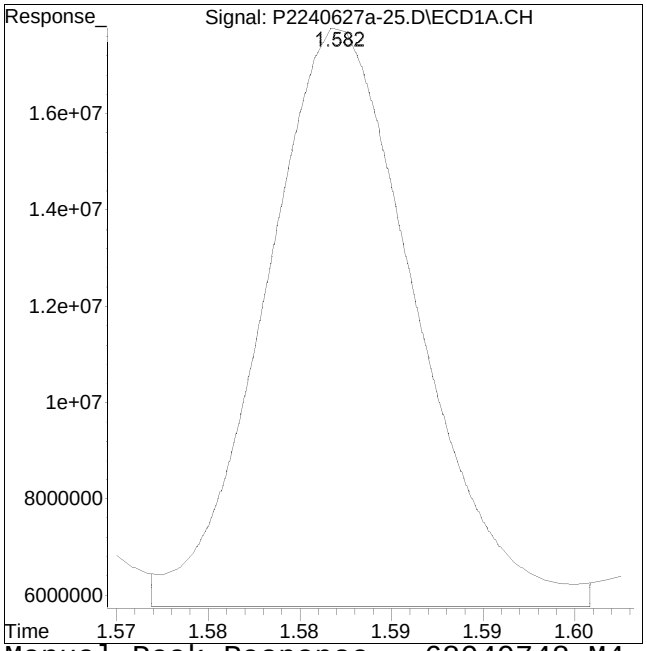
Original Peak Response = 347140058 Manual Peak Response = 338920588 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240627A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240627a-25.D Operator : pest2:mhg
Date Inj'd : 6/27/2024 12:11 Instrument : Pest 2
Sample : WG1939973-4,42,, ms Quant Date : 6/27/2024 12:23 pm

Compound #4: 1016-1



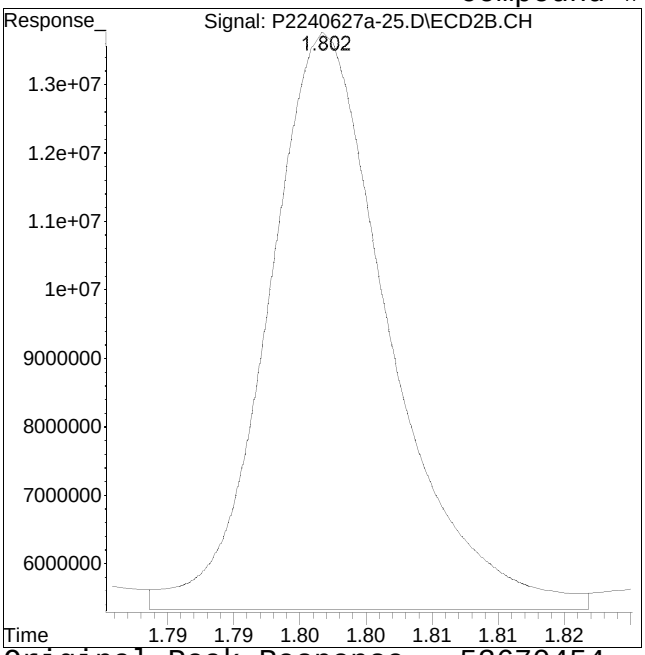


Original Peak Response = 71317587 Manual Peak Response = 68040748 M4
M4 = Poor automated baseline construction.

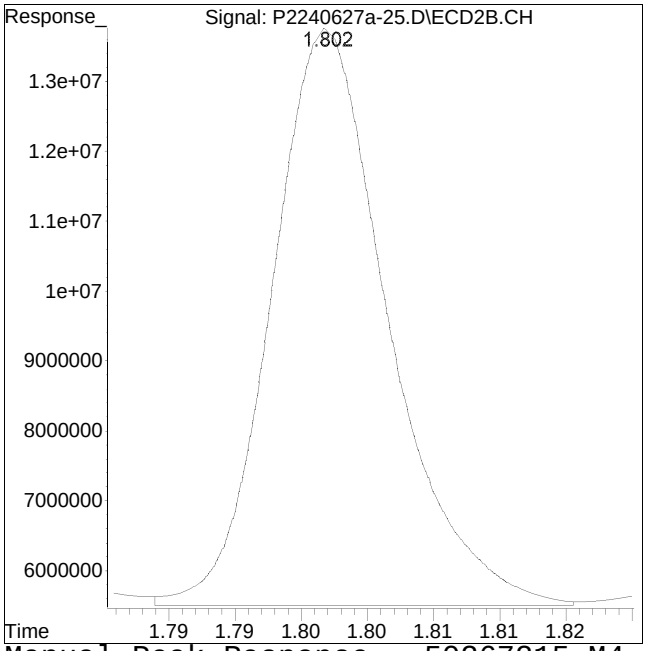
Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240627A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240627a-25.D Operator : pest2:mhg
Date Inj'd : 6/27/2024 12:11 Instrument : Pest 2
Sample : WG1939973-4,42,, ms Quant Date : 6/27/2024 12:23 pm

Compound #55: 1016-1 #2



Original Peak Response = 53670454



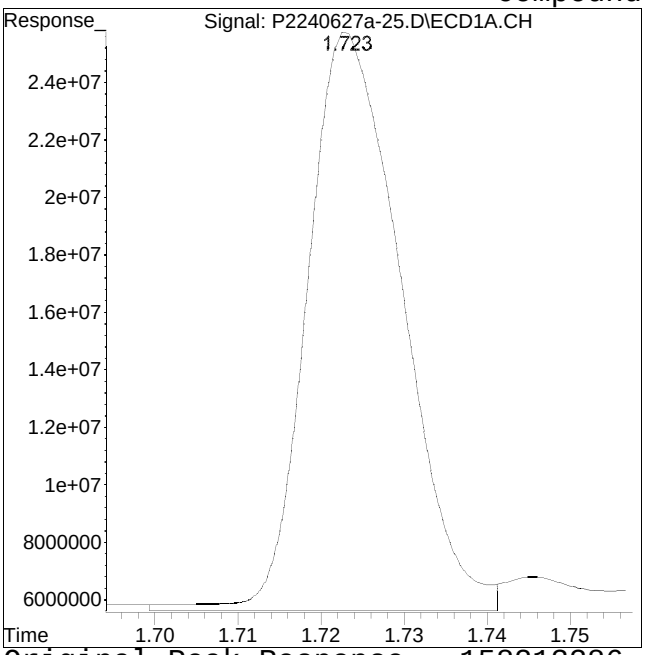
Manual Peak Response = 50267215 M4

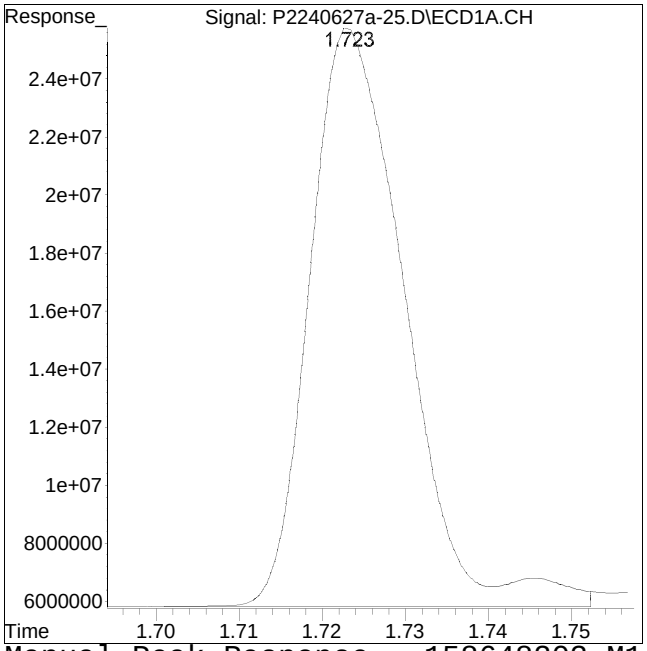
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240627A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240627a-25.D Operator : pest2:mhg
Date Inj'd : 6/27/2024 12:11 Instrument : Pest 2
Sample : WG1939973-4,42,, ms Quant Date : 6/27/2024 12:23 pm

Compound #5: 1016-2



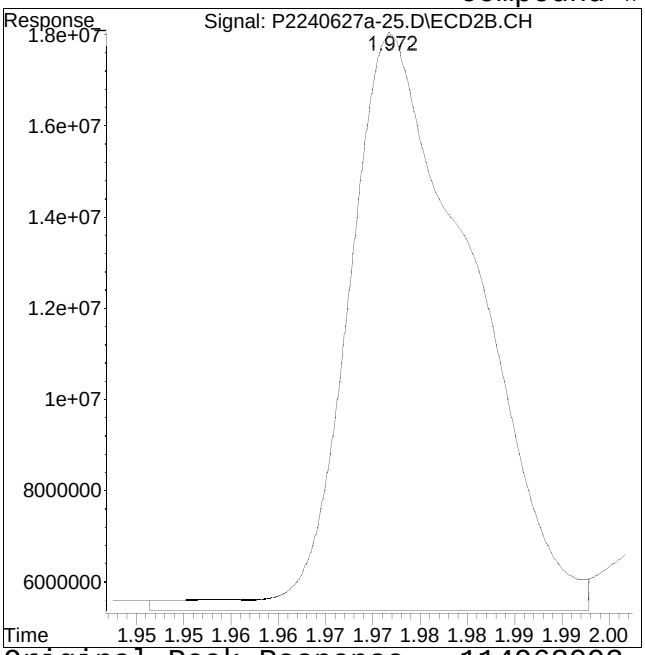


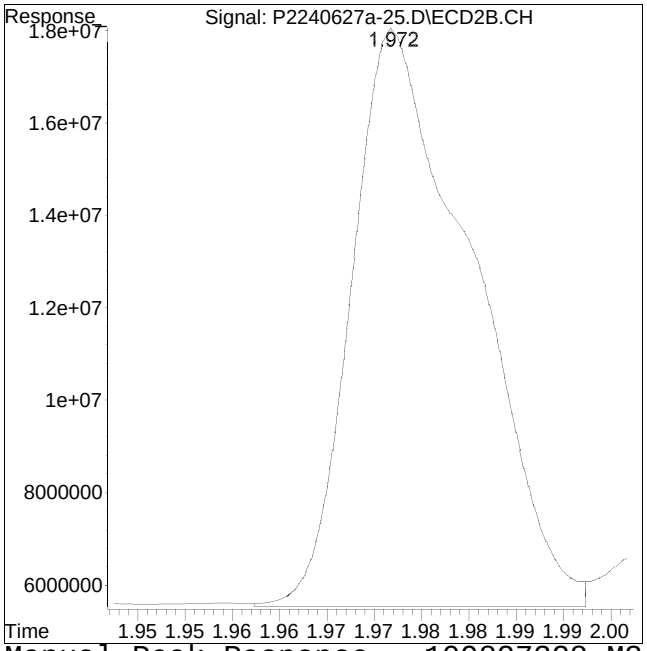
Original Peak Response = 158213386 Manual Peak Response = 158648203 M1
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240627A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240627a-25.D Operator : pest2:mhg
Date Inj'd : 6/27/2024 12:11 Instrument : Pest 2
Sample : WG1939973-4,42,, ms Quant Date : 6/27/2024 12:23 pm

Compound #56: 1016-2 #2



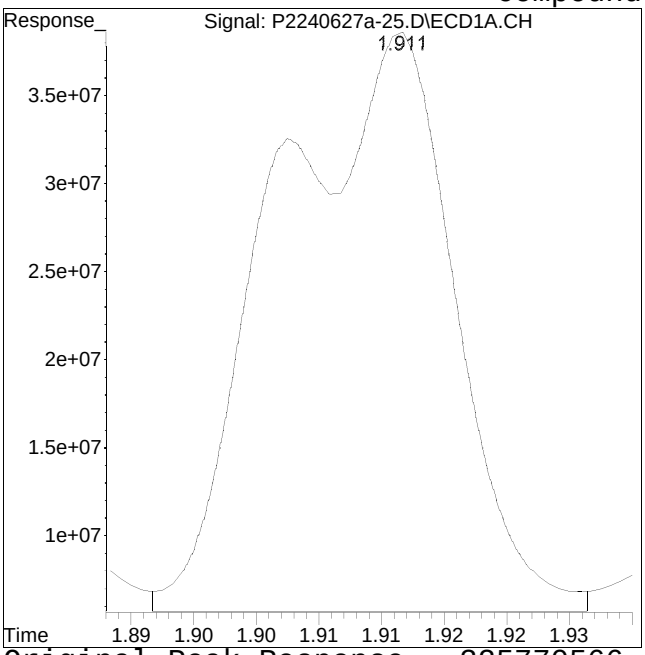


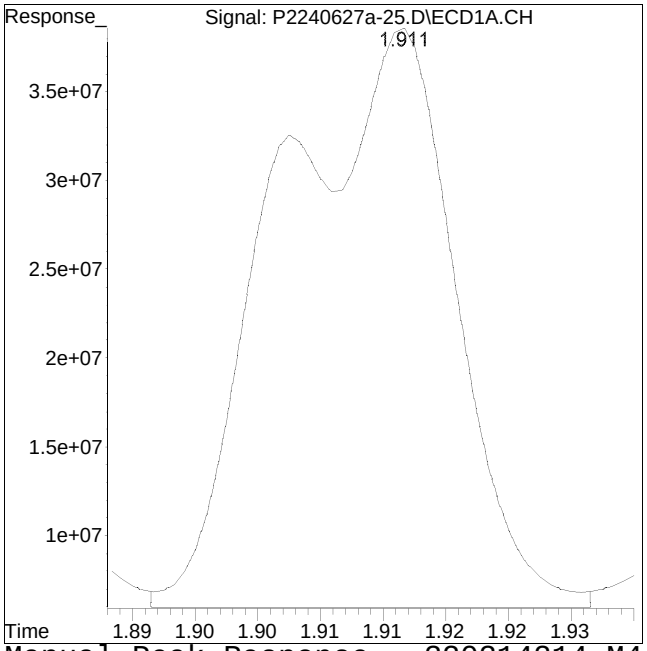
Original Peak Response = 114963993 Manual Peak Response = 109827328 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240627A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240627a-25.D Operator : pest2:mhg
Date Inj'd : 6/27/2024 12:11 Instrument : Pest 2
Sample : WG1939973-4,42,, ms Quant Date : 6/27/2024 12:23 pm

Compound #6: 1016-3



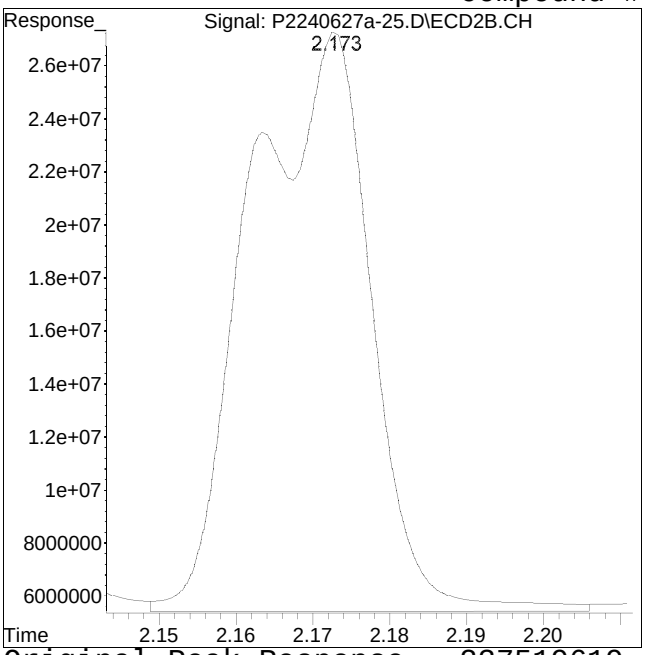


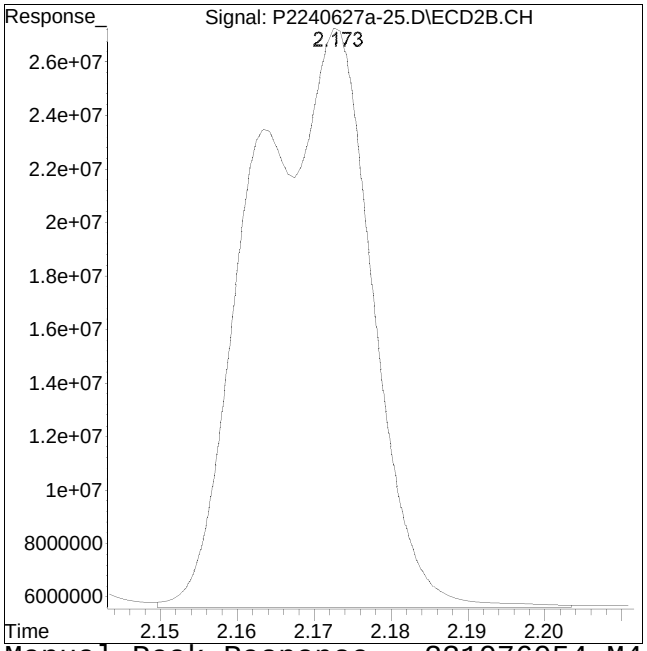
Original Peak Response = 325770566 Manual Peak Response = 320314214 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240627A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240627a-25.D Operator : pest2:mhg
Date Inj'd : 6/27/2024 12:11 Instrument : Pest 2
Sample : WG1939973-4,42,, ms Quant Date : 6/27/2024 12:23 pm

Compound #57: 1016-3 #2



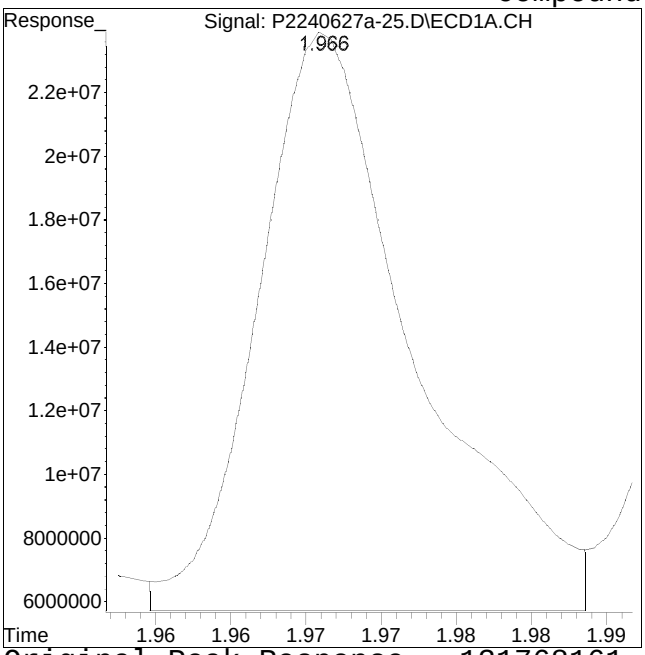


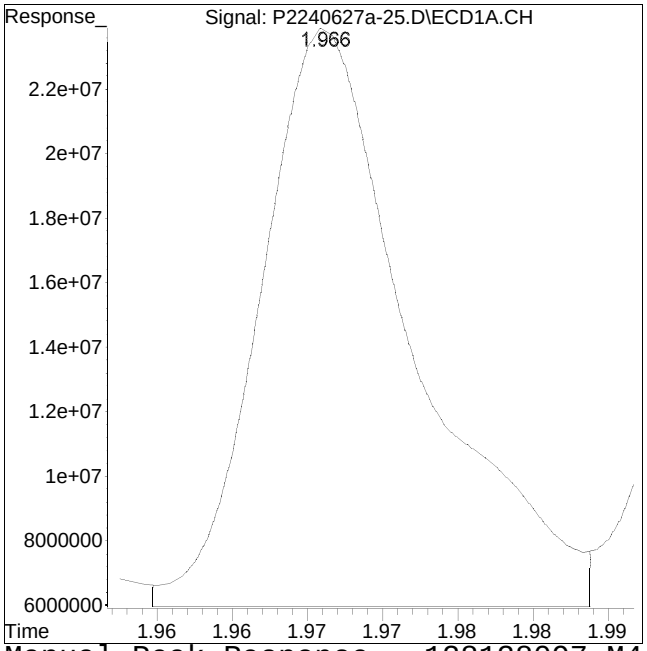
Original Peak Response = 237519619 Manual Peak Response = 231076054 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240627A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240627a-25.D Operator : pest2:mhg
Date Inj'd : 6/27/2024 12:11 Instrument : Pest 2
Sample : WG1939973-4,42,, ms Quant Date : 6/27/2024 12:23 pm

Compound #7: 1016-4



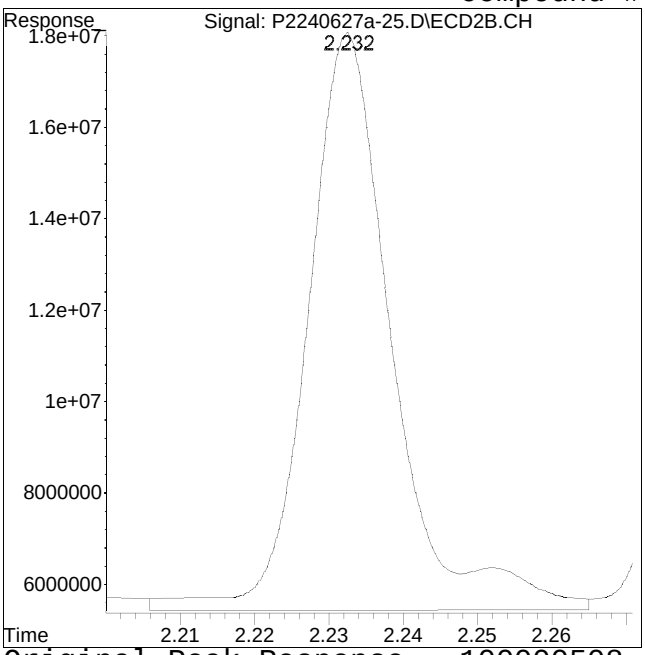


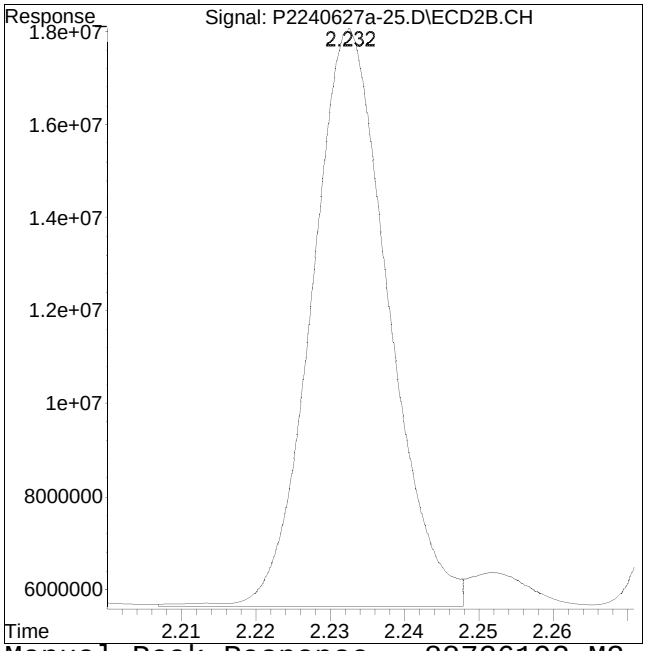
Original Peak Response = 131768161 Manual Peak Response = 128138097 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240627A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240627a-25.D Operator : pest2:mhg
Date Inj'd : 6/27/2024 12:11 Instrument : Pest 2
Sample : WG1939973-4,42,, ms Quant Date : 6/27/2024 12:23 pm

Compound #58: 1016-4 #2



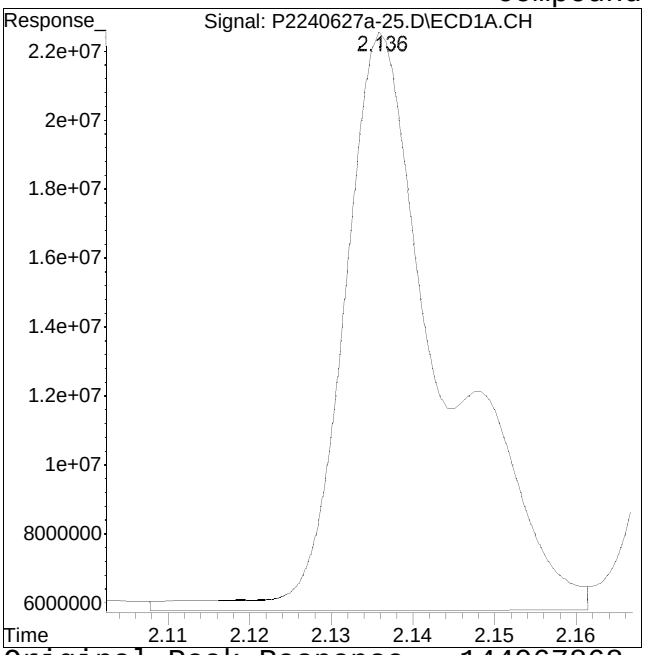


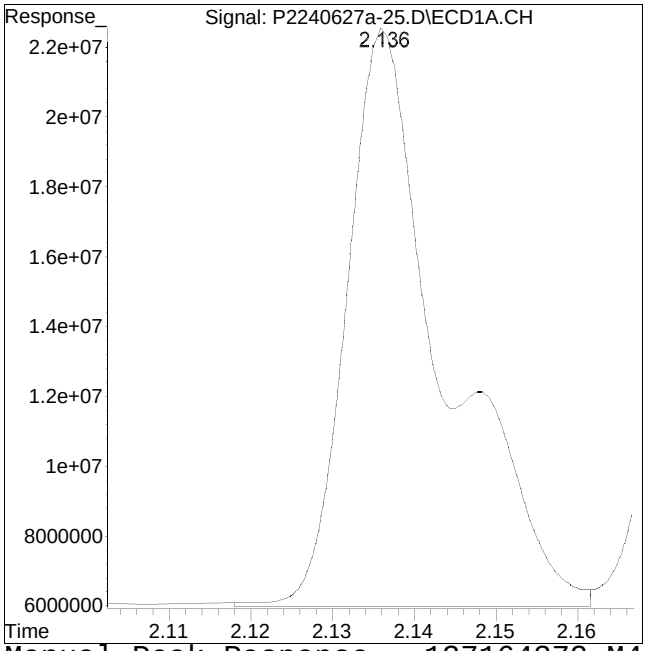
Original Peak Response = 100000508 Manual Peak Response = 88736192 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240627A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240627a-25.D Operator : pest2:mhg
Date Inj'd : 6/27/2024 12:11 Instrument : Pest 2
Sample : WG1939973-4,42,, ms Quant Date : 6/27/2024 12:23 pm

Compound #8: 1016-5



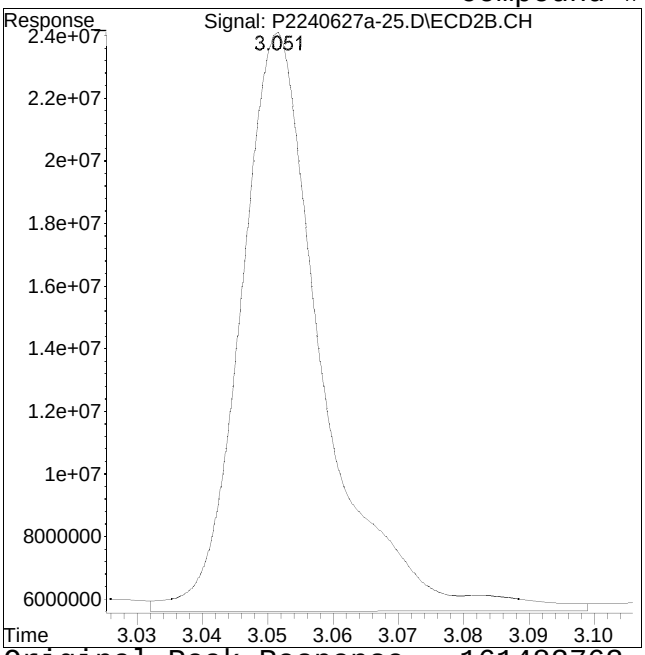


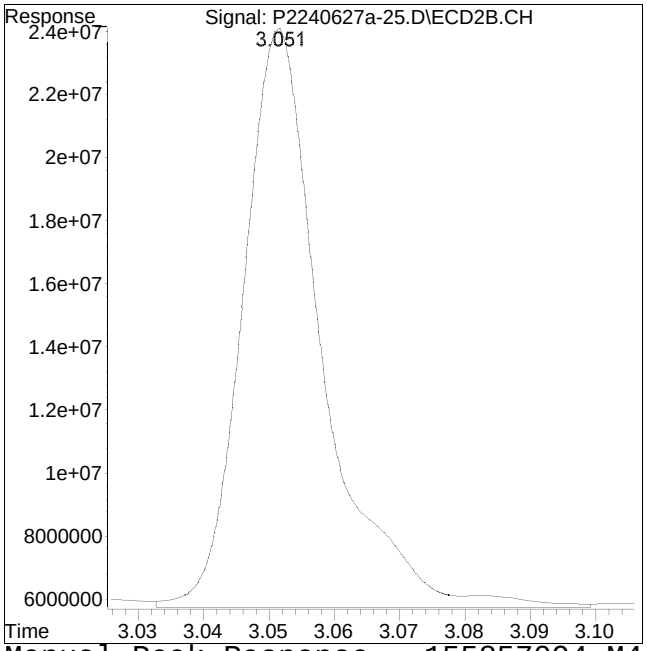
Original Peak Response = 144067868 Manual Peak Response = 137164372 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240627A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240627a-25.D Operator : pest2:mhg
Date Inj'd : 6/27/2024 12:11 Instrument : Pest 2
Sample : WG1939973-4,42,, ms Quant Date : 6/27/2024 12:23 pm

Compound #60: 1260-1 #2



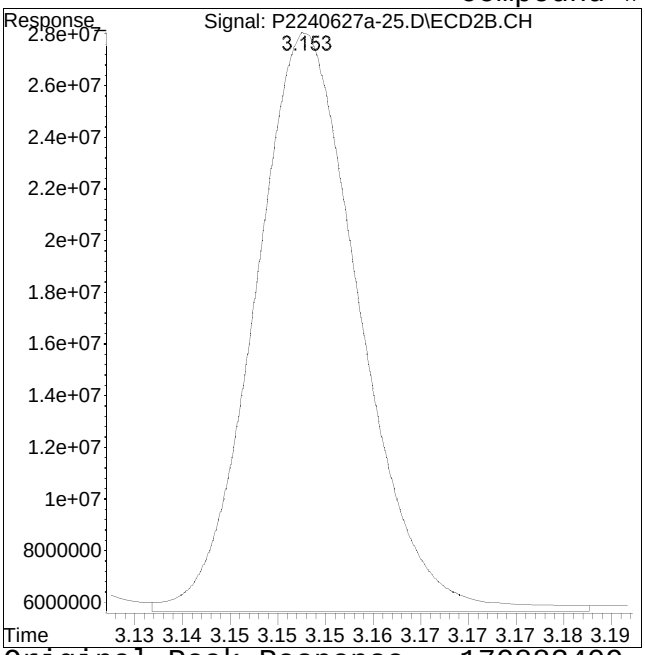


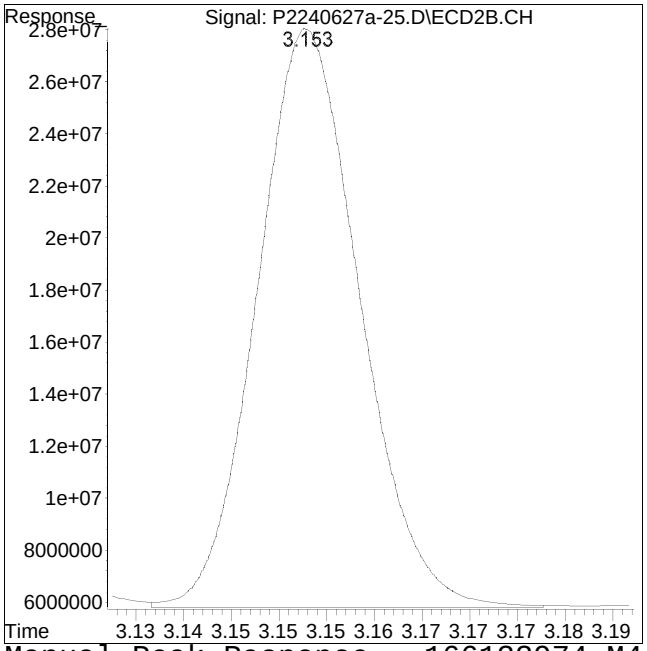
Original Peak Response = 161482763 Manual Peak Response = 155857094 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240627A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240627a-25.D Operator : pest2:mhg
Date Inj'd : 6/27/2024 12:11 Instrument : Pest 2
Sample : WG1939973-4,42,, ms Quant Date : 6/27/2024 12:23 pm

Compound #61: 1260-2 #2



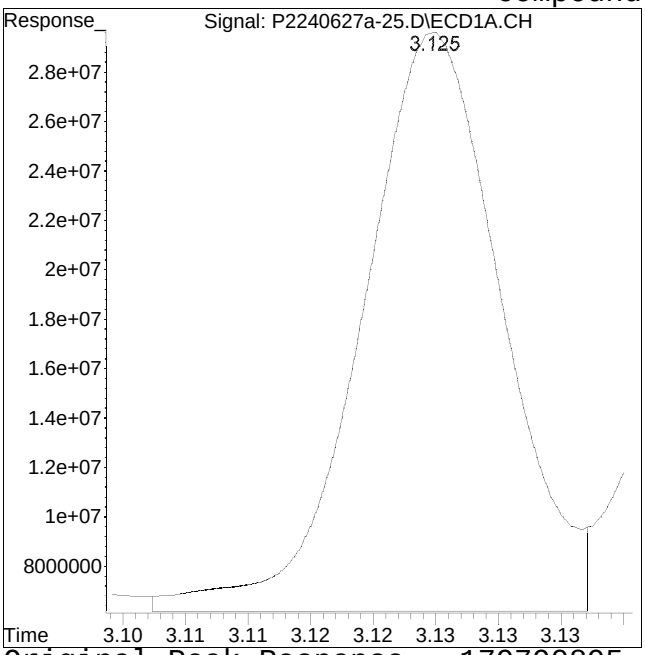


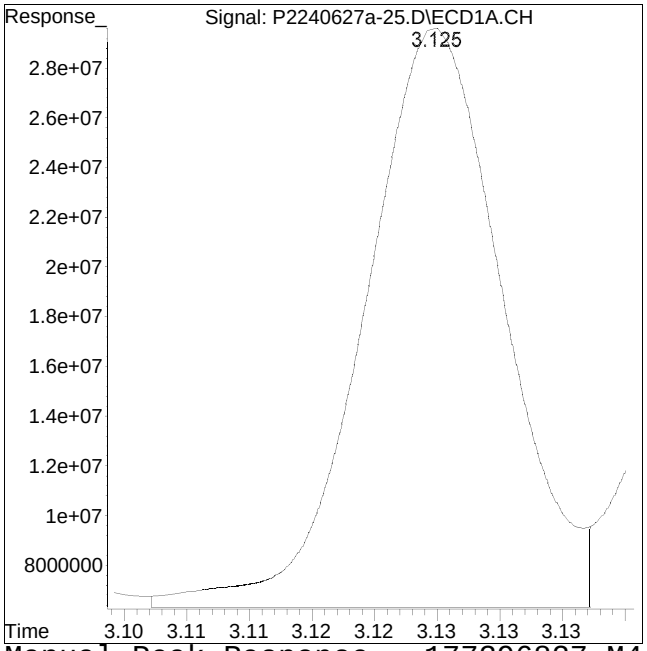
Original Peak Response = 170883409 Manual Peak Response = 166133974 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240627A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240627a-25.D Operator : pest2:mhg
Date Inj'd : 6/27/2024 12:11 Instrument : Pest 2
Sample : WG1939973-4,42,, ms Quant Date : 6/27/2024 12:23 pm

Compound #11: 1260-3



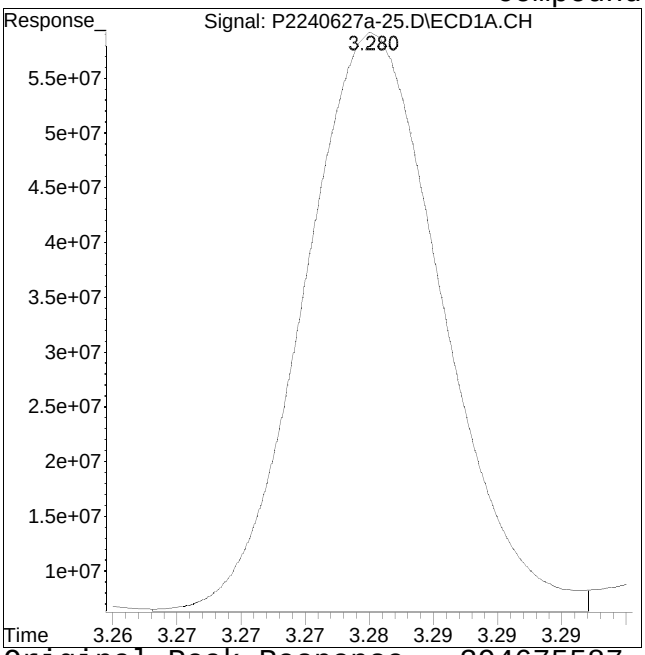


Original Peak Response = 179790895 Manual Peak Response = 177396827 M4
M4 = Poor automated baseline construction.

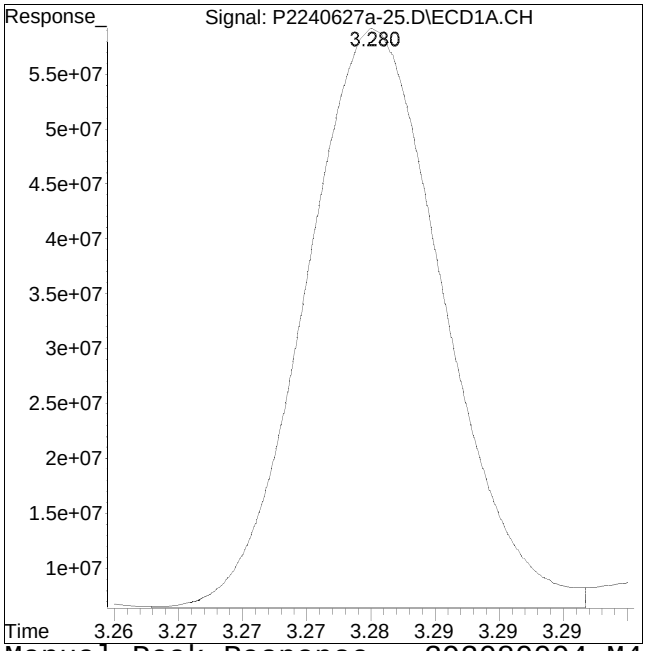
Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240627A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240627a-25.D Operator : pest2:mhg
Date Inj'd : 6/27/2024 12:11 Instrument : Pest 2
Sample : WG1939973-4,42,, ms Quant Date : 6/27/2024 12:23 pm

Compound #12: 1260-4



Original Peak Response = 394675587



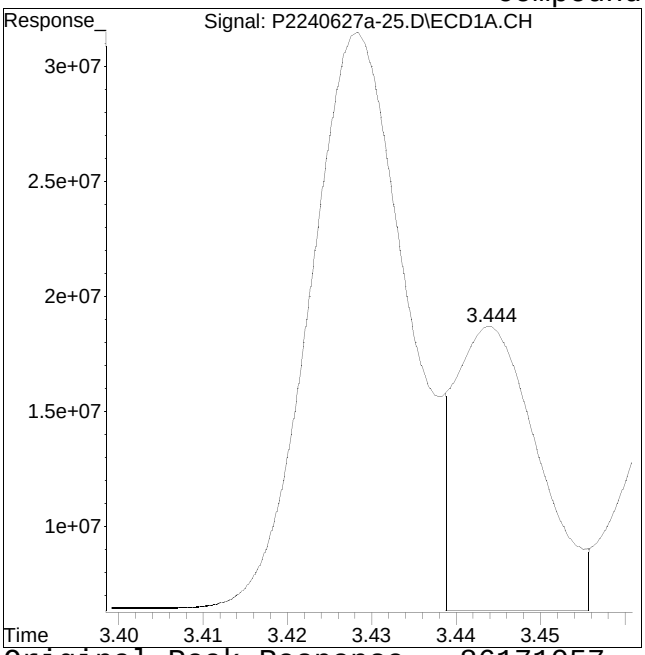
Manual Peak Response = 393080094 M4

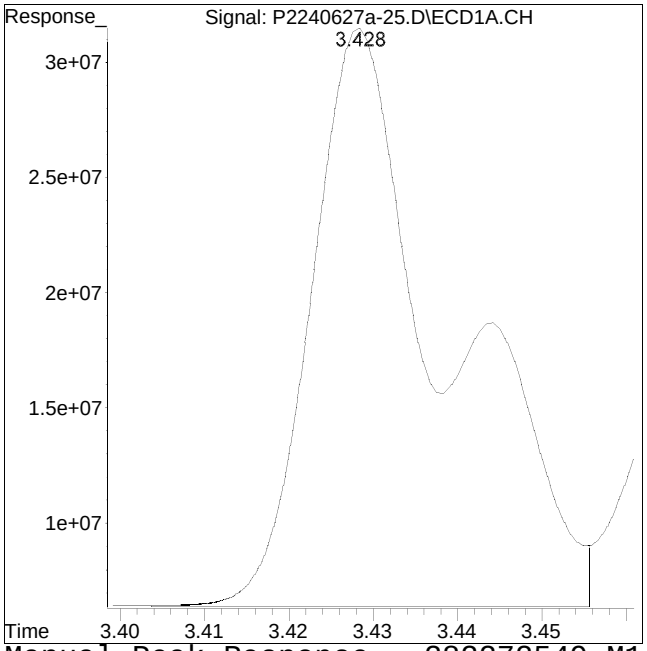
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240627A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240627a-25.D Operator : pest2:mhg
Date Inj'd : 6/27/2024 12:11 Instrument : Pest 2
Sample : WG1939973-4,42,, ms Quant Date : 6/27/2024 12:23 pm

Compound #13: 1260-5





Original Peak Response = 86171057 Manual Peak Response = 282272549 M1
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240627A\
Data File : P2240627a-26.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 27 Jun 2024 12:20
Operator : pest2:mhg
Sample : WG1939973-5,42,, msd
Misc : WG1940092,WG1939973,ical21102
ALS Vial : 26 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 27 12:30:35 2024
Quant Method : I:\PCB\Pest2\2024\240627A\P2_pcb_05_06_24_LVI_ugL_ICAL21102.m
Quant Title : pcb
QLast Update : Wed May 08 09:27:21 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PCB\Pest2\2024\240627A\P2240627a-02.D
Sub List : 1660 - 1660

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Internal Standards							
1) i	1660_1br2nb	1.161	1.230	372.4E6	252.3E6	25.000M3	25.000M4
	Standard Area 1 : #1 = 386975749				Recovery =	96.24%	
	Standard Area 1 : #2 = 277930109				Recovery =	90.78%	
System Monitoring Compounds							
2) s	2,4,5,6-Tetr	1.445	1.602	325.1E6	215.3E6	16.646M3	17.318M4
	Spiked Amount 20.000	Range 30 - 150		Recovery =	83.23%	86.59%	
3) s	Decachlorobi	4.014	4.524	236.4E6	170.6E6	18.737	29.150
	Spiked Amount 20.000	Range 30 - 150		Recovery =	93.69%	145.75%	
Target Compounds							
4) l1	1016-1	1.583	1.802	64053299	49413028	191.593M3	232.710M4
5) l1	1016-2	1.724	1.972	157.5E6	108.8E6	214.958M4	233.378M3
6) l1	1016-3	1.912	2.173	314.4E6	216.7E6	208.655	232.322M4
7) l1	1016-4	1.967	2.233	126.0E6	84592333	209.809M3	245.164M3
8) l1	1016-5	2.137	2.443	130.9E6	80258768	196.389M4	274.427M4
Sum	1016-1			792.8E6	539.8E6	1021.405	1218.001
Average	1016-1					204.281	243.600
9) l2	1260-1	2.681	3.051	184.8E6	148.6E6	192.113	272.783M4
10) l2	1260-2	2.810	3.153	283.7E6	167.4E6	195.714M4	268.633
11) l2	1260-3	3.126	3.545	173.3E6	142.9E6	192.393M4	295.792M4
12) l2	1260-4	3.281	3.674	387.9E6	280.5E6	201.034M3	288.719M4
13) l2	1260-5	3.429	3.876	278.7E6	207.0E6	206.052M4	310.776M2
Sum	1260-1			1308.3E6	946.4E6	987.307	1436.702
Average	1260-1					197.461	287.340
Sum	1221-2			0	0	N.D.	N.D.
Average	1221-2					0.000	0.000
Sum	1254-1			0	0	N.D.	N.D.

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240627A\
Data File : P2240627a-26.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 27 Jun 2024 12:20
Operator : pest2:mhg
Sample : WG1939973-5,42,, msd
Misc : WG1940092,WG1939973,ical21102
ALS Vial : 26 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 27 12:30:35 2024
Quant Method : I:\PCB\Pest2\2024\240627A\P2_pcb_05_06_24_LVI_ugL_ICAL21102.m
Quant Title : pcb
QLast Update : Wed May 08 09:27:21 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PCB\Pest2\2024\240627A\P2240627a-02.D
Sub List : 1660 - 1660

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Average 1254-1					0.000	0.000
Sum 1242-1			0	0	N.D.	N.D.
Average 1242-1					0.000	0.000
Sum 1268-1			0	0	N.D.	N.D.
Average 1268-1					0.000	0.000
Sum 1248-1			0	0	N.D.	N.D.
Average 1248-1					0.000	0.000
Sum 1232-1			0	0	N.D.	N.D.
Average 1232-1					0.000	0.000
Sum 1262-1			0	0	N.D.	N.D.
Average 1262-1					0.000	0.000
SemiQuant Compounds - Not Calibrated on this Instrument						
Sum 1262-1			0	0	N.D.	N.D.
Average 1262-1					0.000	0.000

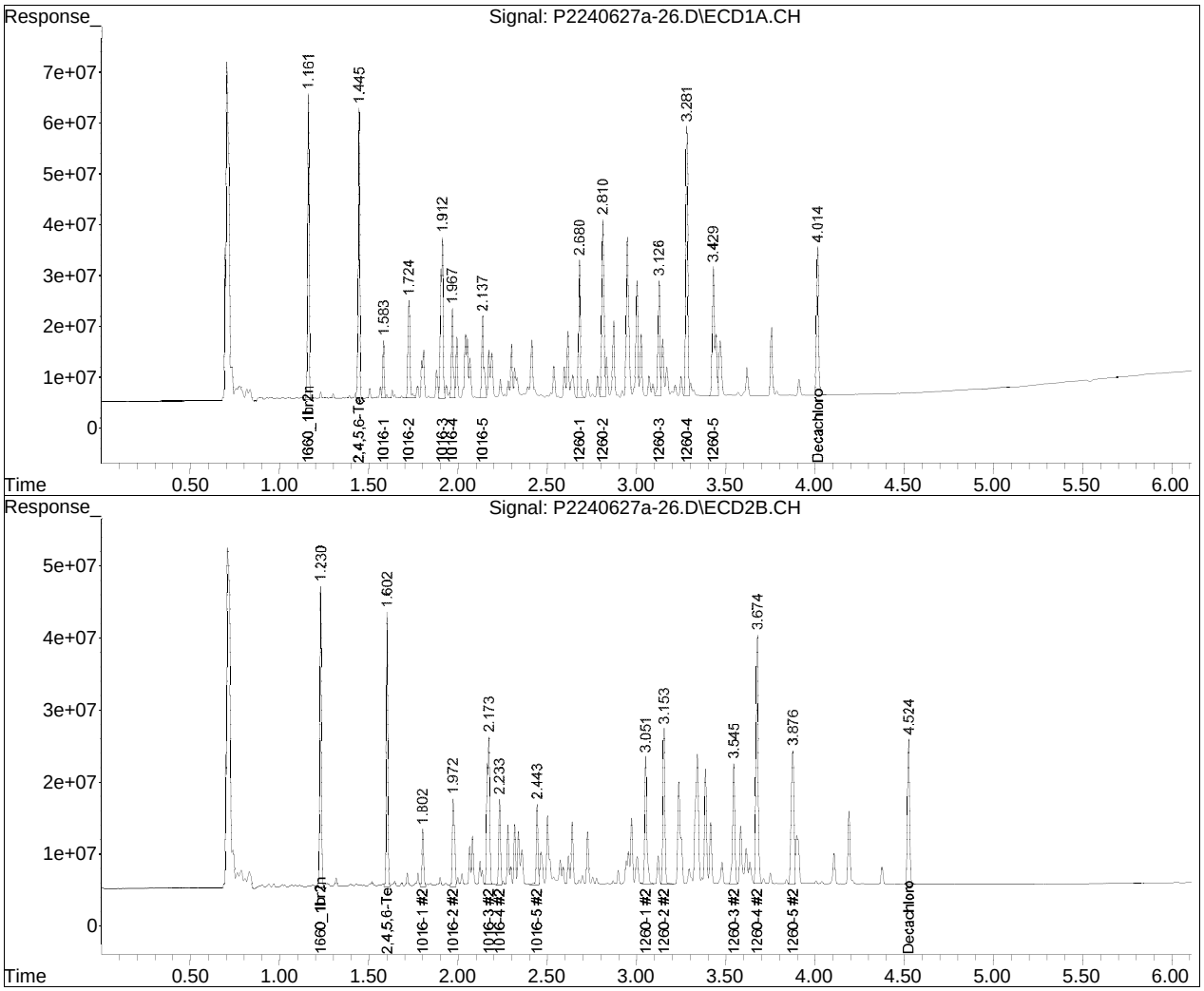
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : 1660 - 1660Pest2\2024\240627A\P2240627a-02.D•

Data Path : I:\PCB\Pest2\2024\240627A\
Data File : P2240627a-26.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 27 Jun 2024 12:20
Operator : pest2:mhg
Sample : WG1939973-5,42,, msd
Misc : WG1940092,WG1939973,ical21102
ALS Vial : 26 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 27 12:30:35 2024
Quant Method : I:\PCB\Pest2\2024\240627A\P2_pcb_05_06_24_LVI_ugL_ICAL21102.m
Quant Title : pcb
QLast Update : Wed May 08 09:27:21 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

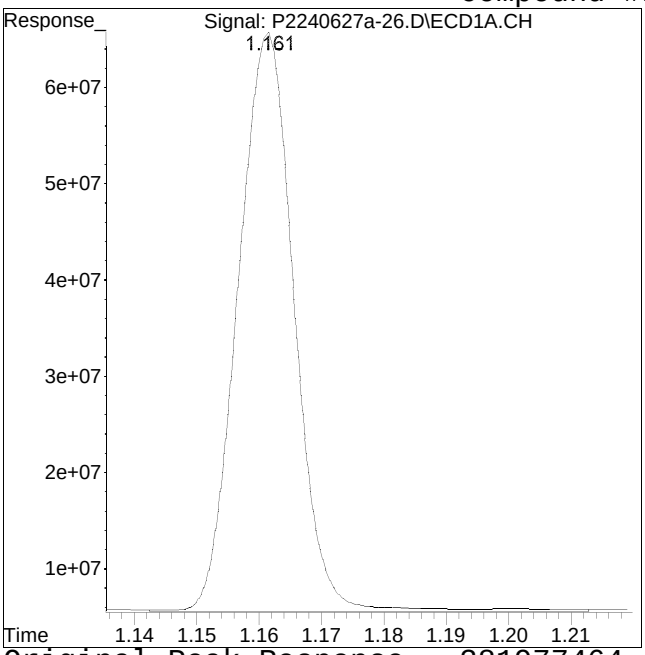
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

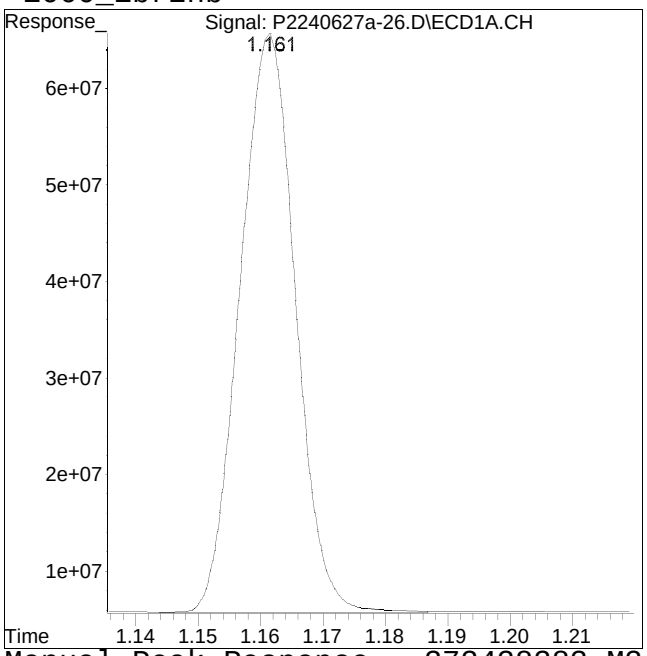


Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240627A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240627a-26.D Operator : pest2:mhg
Date Inj'd : 6/27/2024 12:20 Instrument : Pest 2
Sample : WG1939973-5,42,, msd Quant Date : 6/27/2024 12:30 pm

Compound #1: 1660_1br2nb



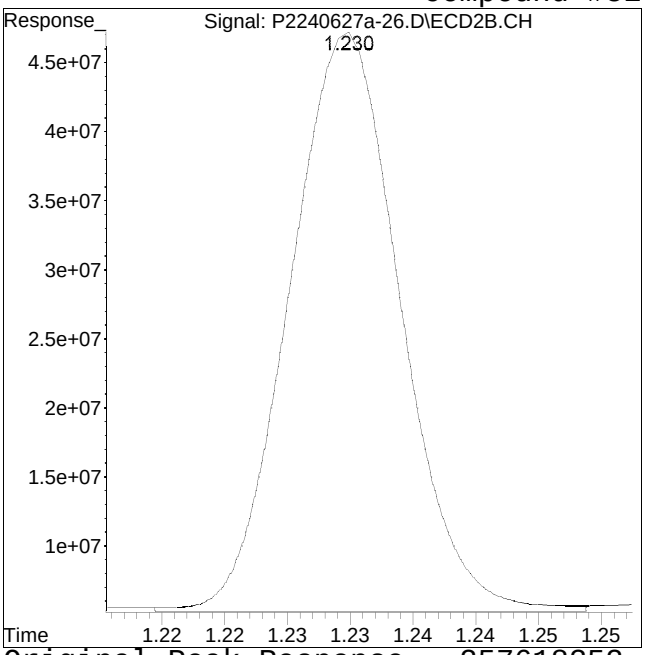


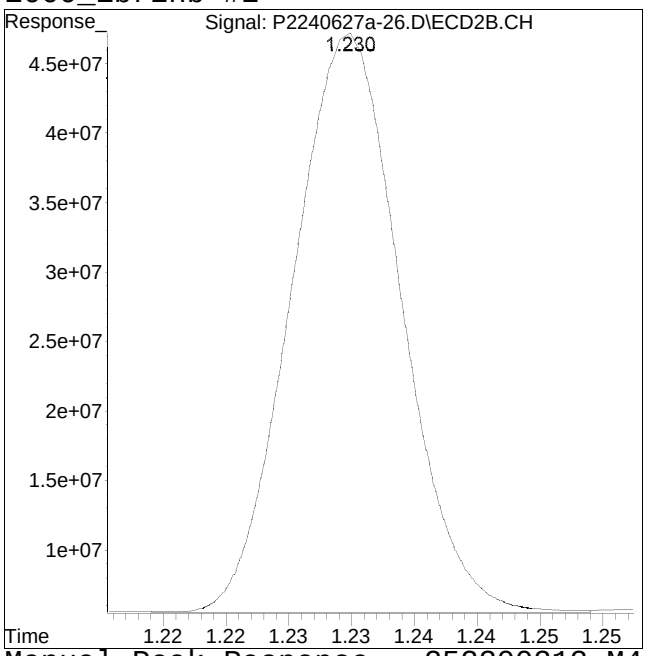
Original Peak Response = 381977464 Manual Peak Response = 372438383 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240627A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240627a-26.D Operator : pest2:mhg
Date Inj'd : 6/27/2024 12:20 Instrument : Pest 2
Sample : WG1939973-5,42,, msd Quant Date : 6/27/2024 12:30 pm

Compound #52: 1660_1br2nb #2



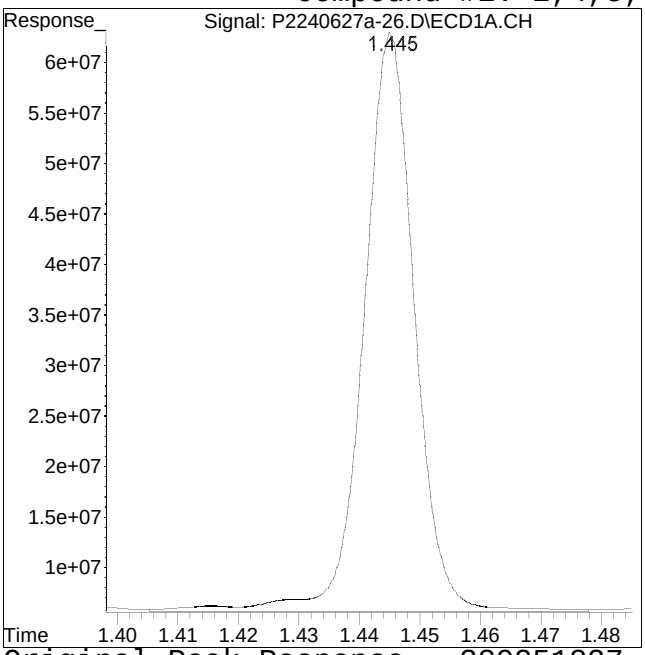


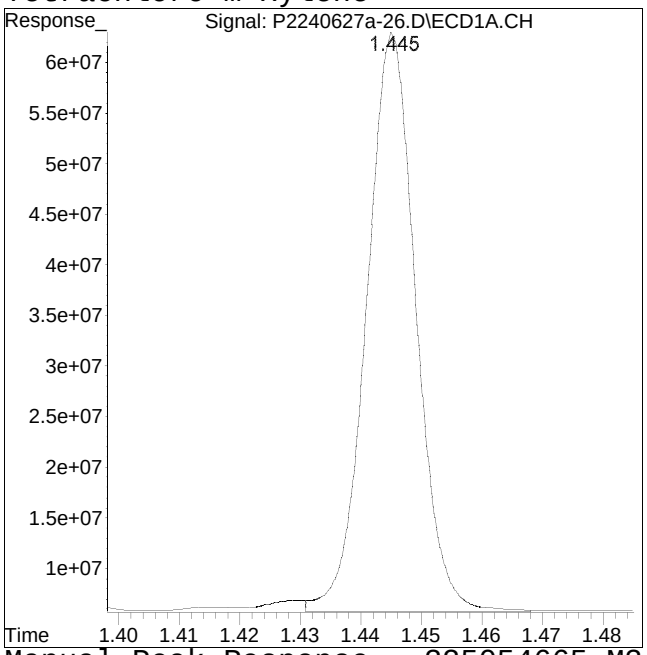
Original Peak Response = 257618352 Manual Peak Response = 252300212 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240627A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240627a-26.D Operator : pest2:mhg
Date Inj'd : 6/27/2024 12:20 Instrument : Pest 2
Sample : WG1939973-5,42,, msd Quant Date : 6/27/2024 12:30 pm

Compound #2: 2,4,5,6-Tetrachloro-m-xylene



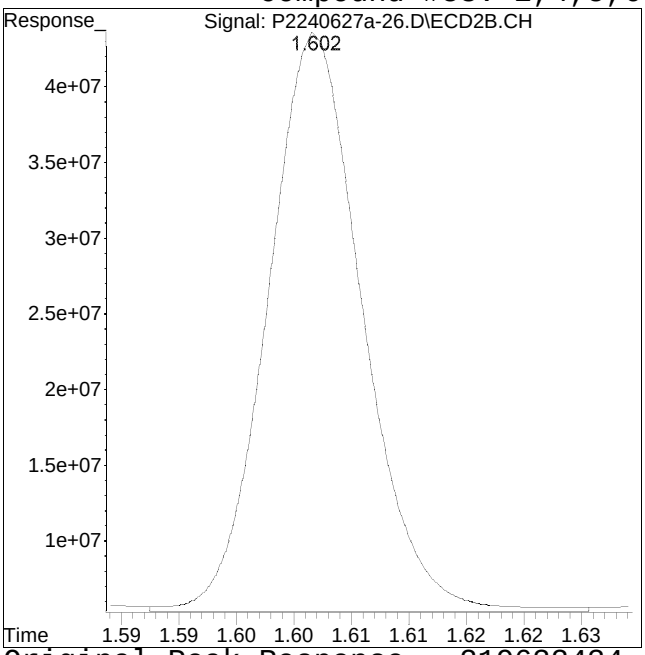


Original Peak Response = 339251227 Manual Peak Response = 325054665 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

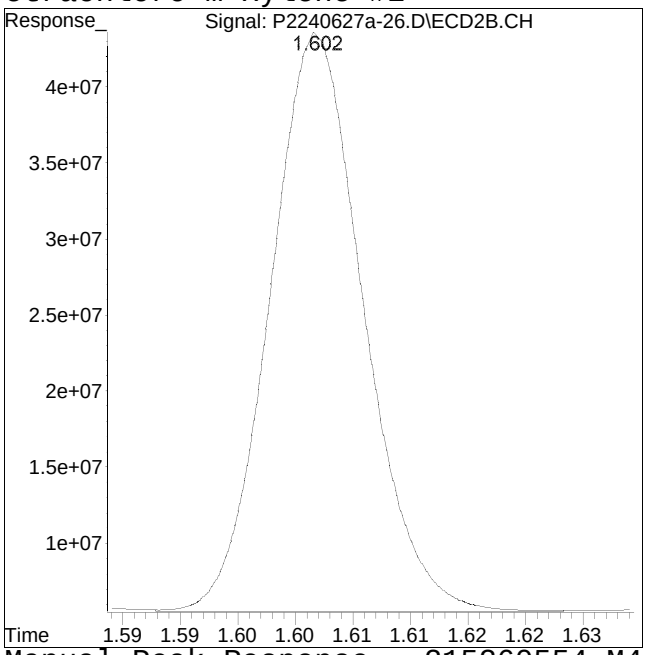
Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240627A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240627a-26.D Operator : pest2:mhg
Date Inj'd : 6/27/2024 12:20 Instrument : Pest 2
Sample : WG1939973-5,42,, msd Quant Date : 6/27/2024 12:30 pm

Compound #53: 2,4,5,6-Tetrachloro-m-xylene #2



Original Peak Response = 219632434



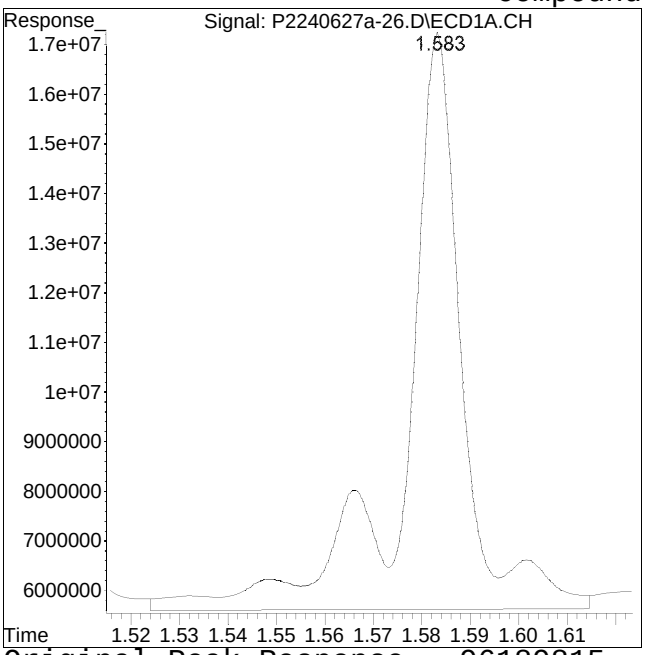
Manual Peak Response = 215260554 M4

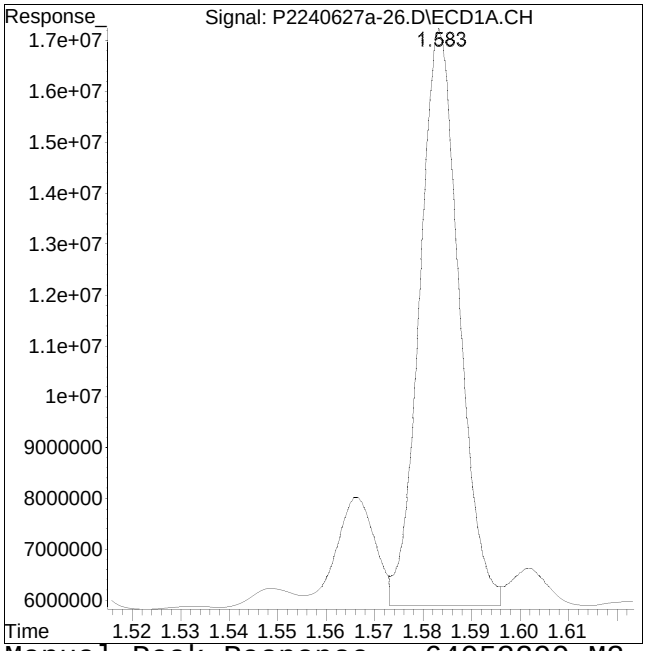
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240627A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240627a-26.D Operator : pest2:mhg
Date Inj'd : 6/27/2024 12:20 Instrument : Pest 2
Sample : WG1939973-5,42,, msd Quant Date : 6/27/2024 12:30 pm

Compound #4: 1016-1



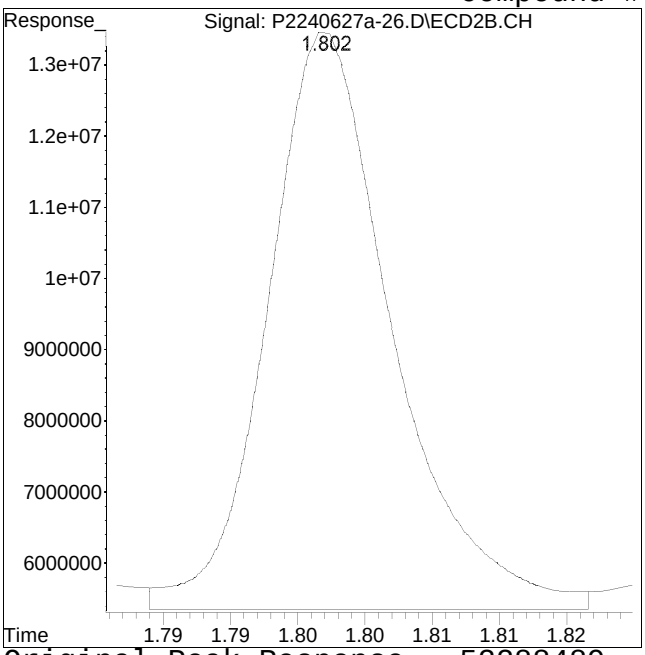


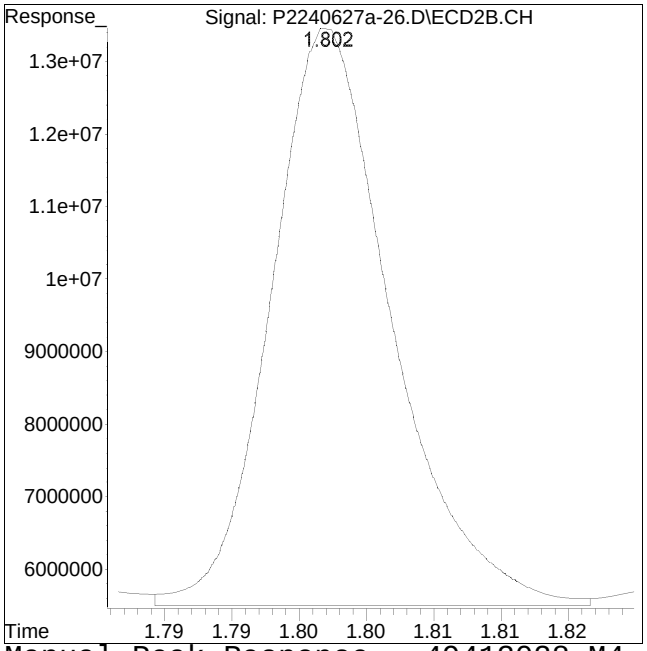
Original Peak Response = 96189815 Manual Peak Response = 64053299 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240627A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240627a-26.D Operator : pest2:mhg
Date Inj'd : 6/27/2024 12:20 Instrument : Pest 2
Sample : WG1939973-5,42,, msd Quant Date : 6/27/2024 12:30 pm

Compound #55: 1016-1 #2



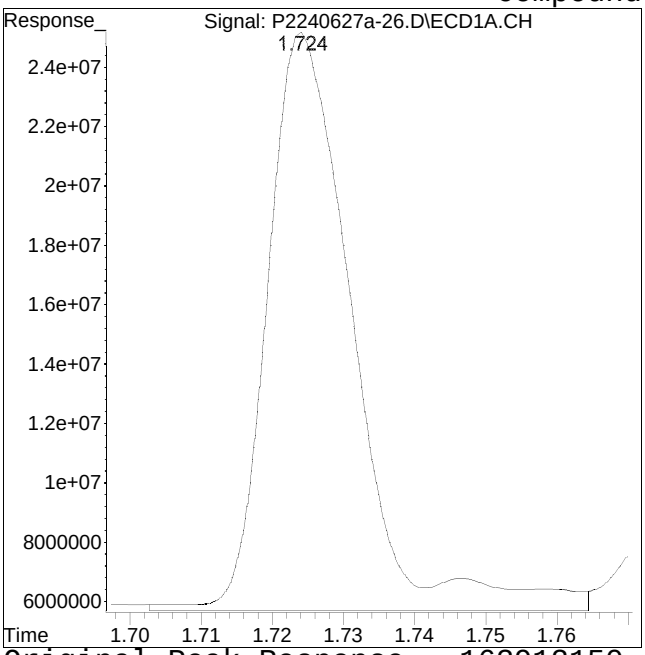


Original Peak Response = 52288489 Manual Peak Response = 49413028 M4
M4 = Poor automated baseline construction.

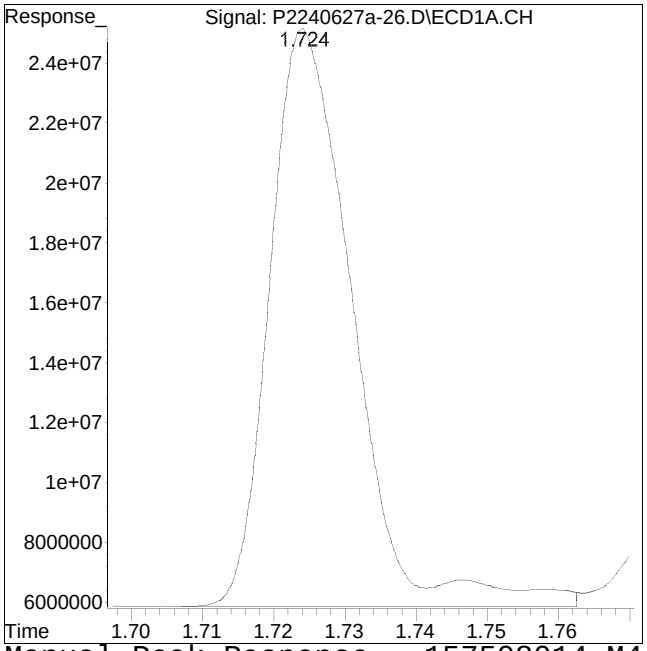
Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240627A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240627a-26.D Operator : pest2:mhg
Date Inj'd : 6/27/2024 12:20 Instrument : Pest 2
Sample : WG1939973-5,42,, msd Quant Date : 6/27/2024 12:30 pm

Compound #5: 1016-2



Original Peak Response = 163912150



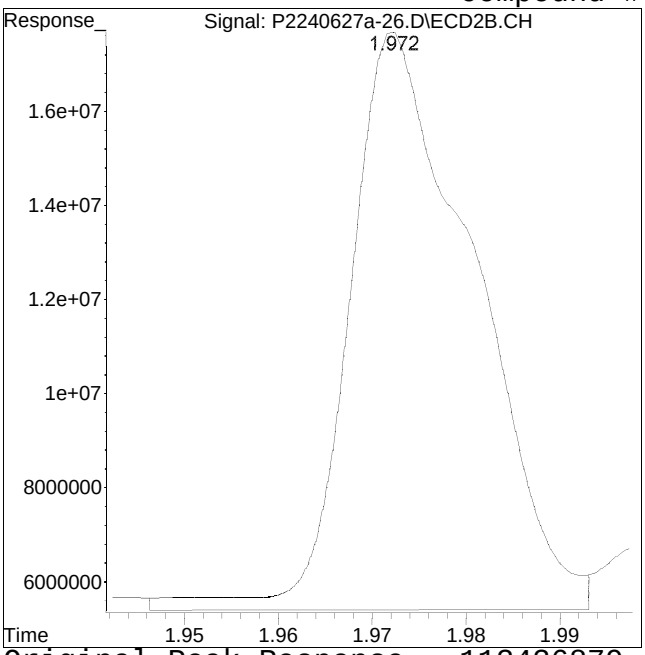
Manual Peak Response = 157508014 M4

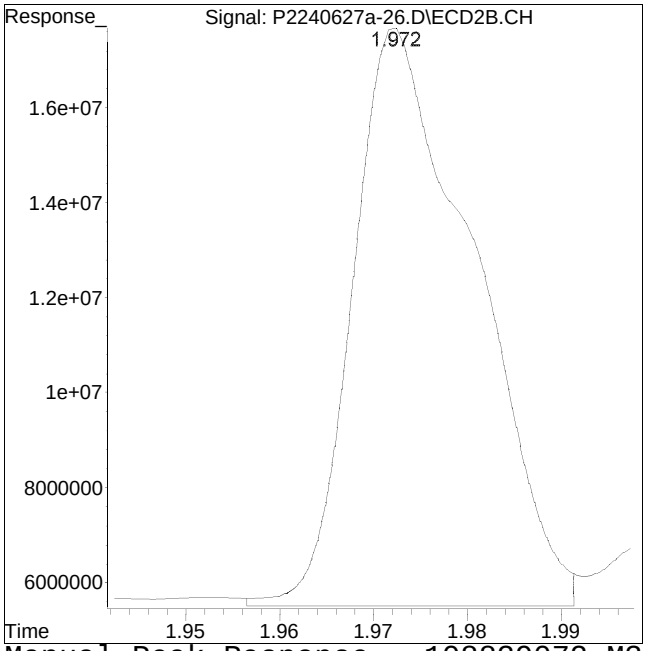
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240627A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240627a-26.D Operator : pest2:mhg
Date Inj'd : 6/27/2024 12:20 Instrument : Pest 2
Sample : WG1939973-5,42,, msd Quant Date : 6/27/2024 12:30 pm

Compound #56: 1016-2 #2



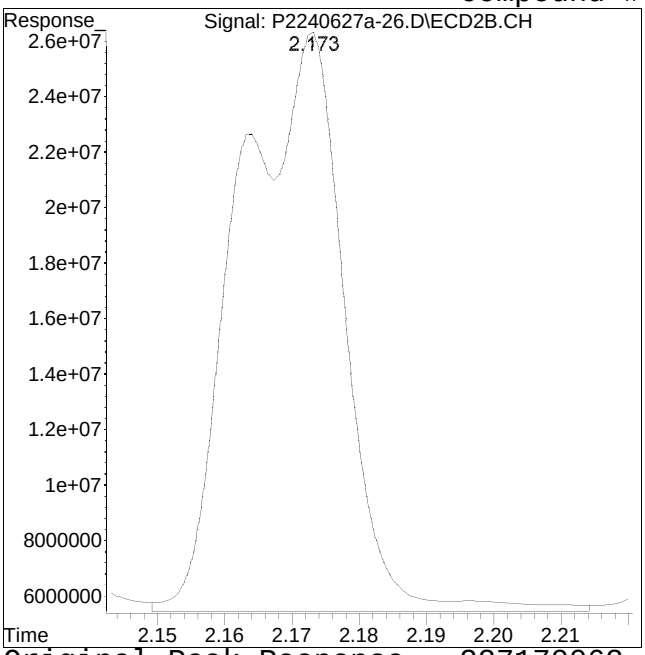


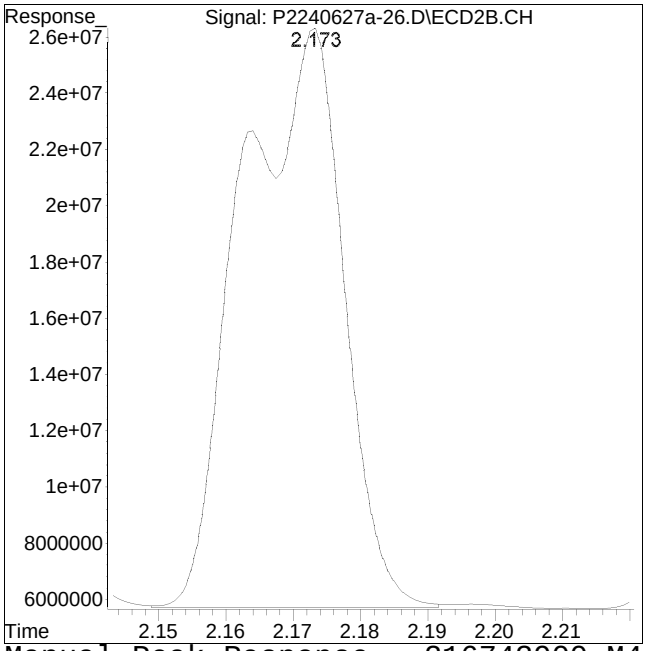
Original Peak Response = 113436879 Manual Peak Response = 108839072 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240627A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240627a-26.D Operator : pest2:mhg
Date Inj'd : 6/27/2024 12:20 Instrument : Pest 2
Sample : WG1939973-5,42,, msd Quant Date : 6/27/2024 12:30 pm

Compound #57: 1016-3 #2



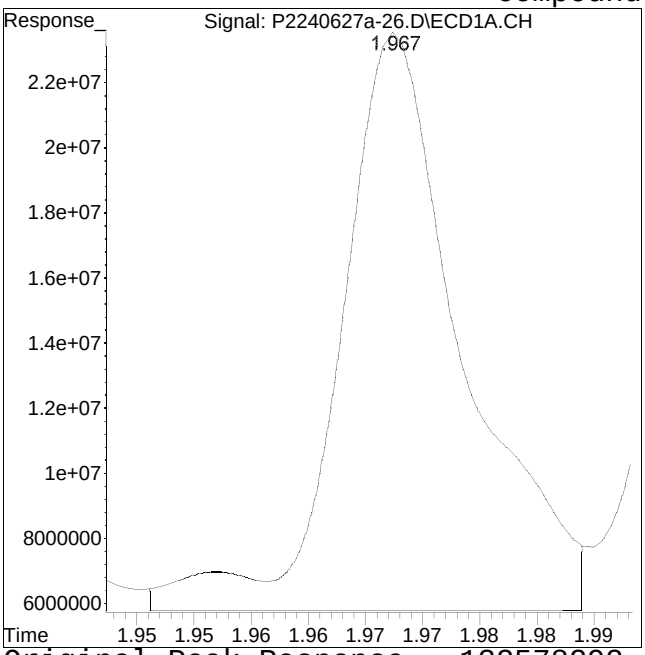


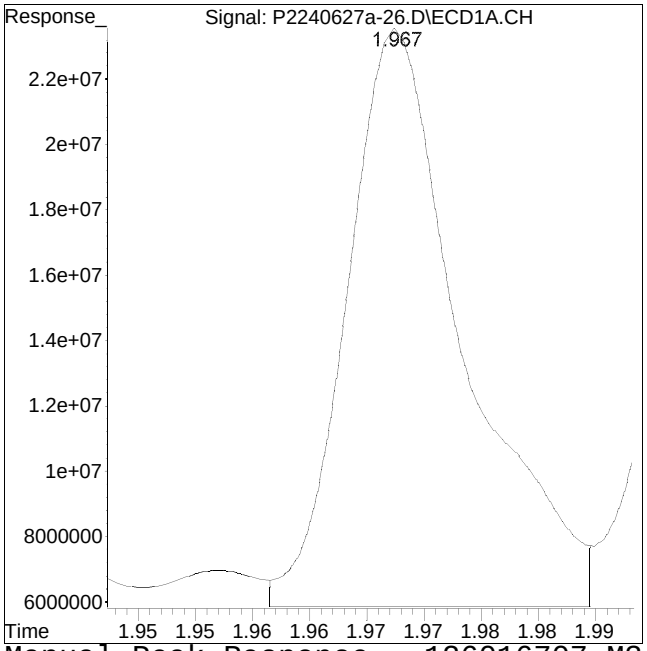
Original Peak Response = 227170062 Manual Peak Response = 216743900 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240627A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240627a-26.D Operator : pest2:mhg
Date Inj'd : 6/27/2024 12:20 Instrument : Pest 2
Sample : WG1939973-5,42,, msd Quant Date : 6/27/2024 12:30 pm

Compound #7: 1016-4



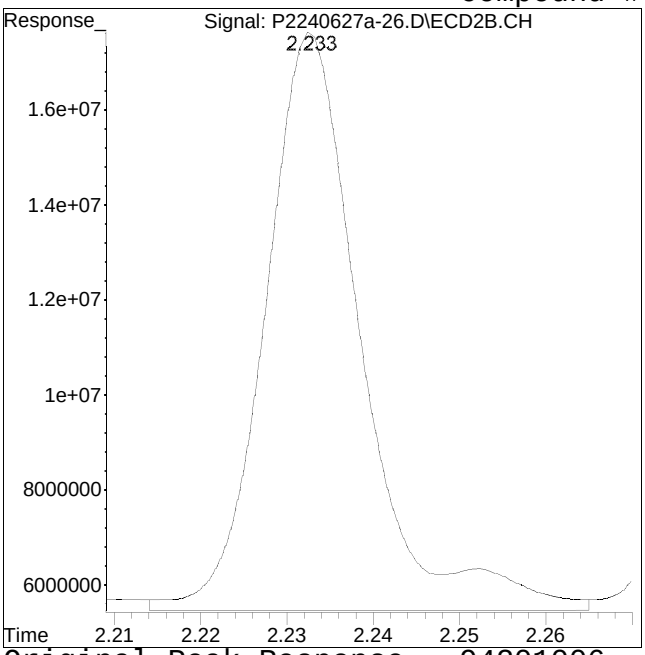


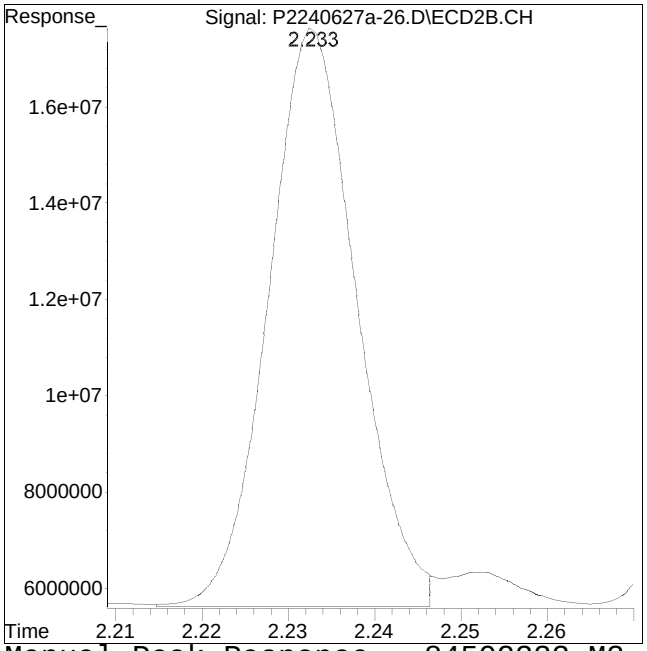
Original Peak Response = 132578292 Manual Peak Response = 126016707 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240627A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240627a-26.D Operator : pest2:mhg
Date Inj'd : 6/27/2024 12:20 Instrument : Pest 2
Sample : WG1939973-5,42,, msd Quant Date : 6/27/2024 12:30 pm

Compound #58: 1016-4 #2



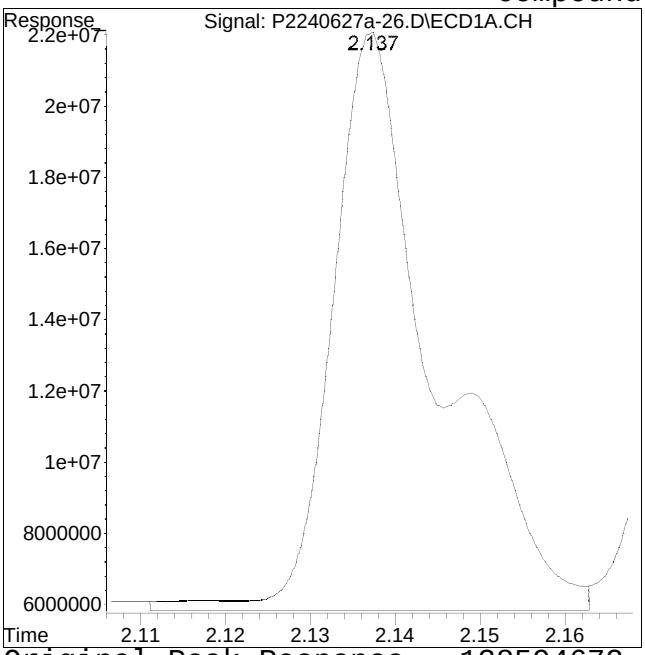


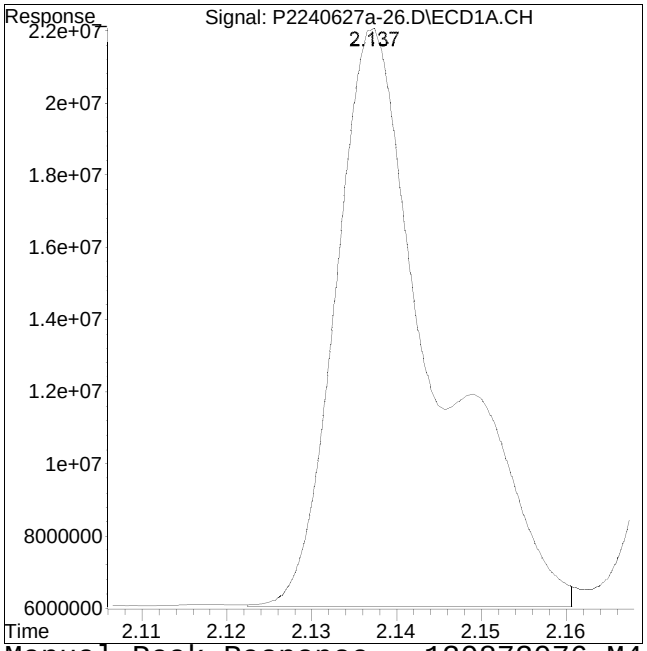
Original Peak Response = 94201006 Manual Peak Response = 84592333 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240627A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240627a-26.D Operator : pest2:mhg
Date Inj'd : 6/27/2024 12:20 Instrument : Pest 2
Sample : WG1939973-5,42,, msd Quant Date : 6/27/2024 12:30 pm

Compound #8: 1016-5



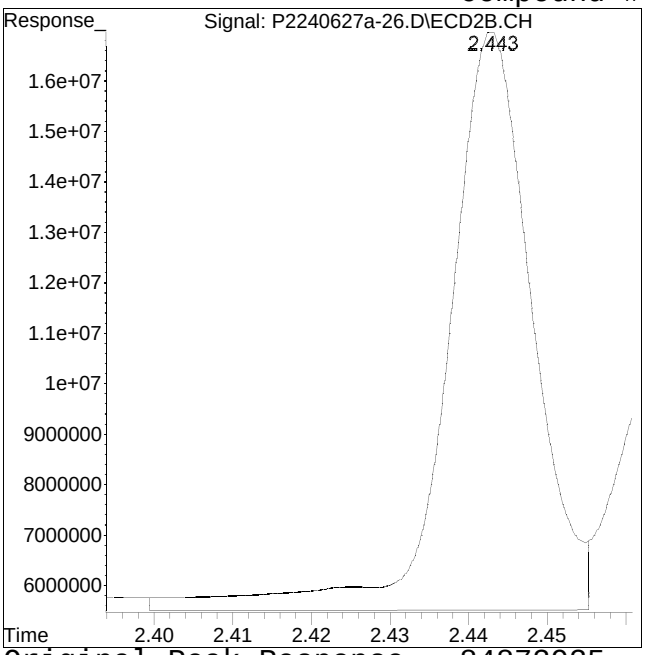


Original Peak Response = 138594672 Manual Peak Response = 130873076 M4
M4 = Poor automated baseline construction.

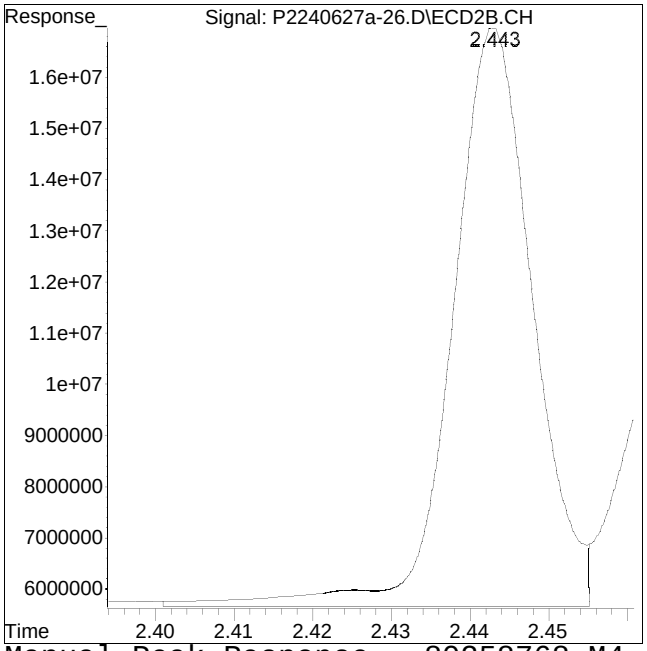
Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240627A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240627a-26.D Operator : pest2:mhg
Date Inj'd : 6/27/2024 12:20 Instrument : Pest 2
Sample : WG1939973-5,42,, msd Quant Date : 6/27/2024 12:30 pm

Compound #59: 1016-5 #2



Original Peak Response = 84873935



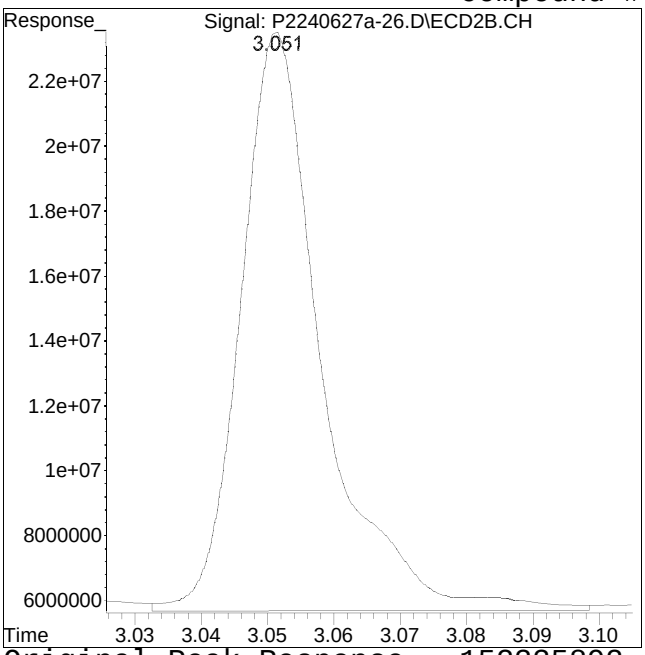
Manual Peak Response = 80258768 M4

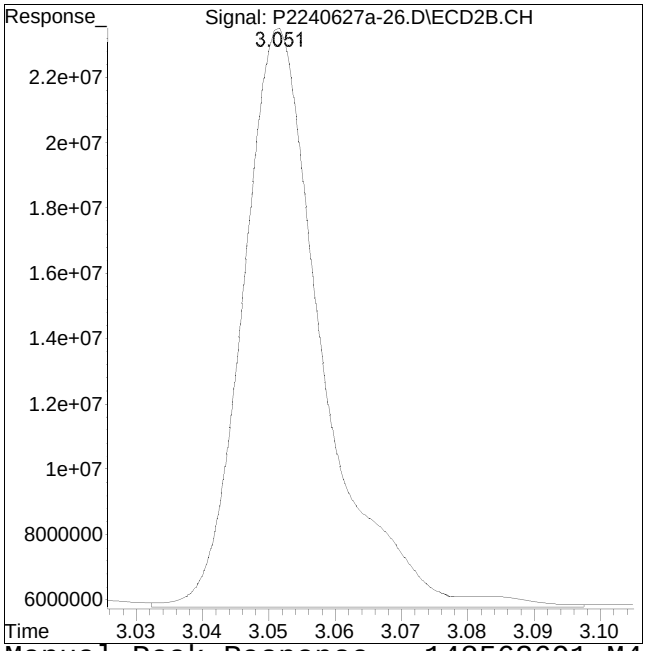
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240627A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240627a-26.D Operator : pest2:mhg
Date Inj'd : 6/27/2024 12:20 Instrument : Pest 2
Sample : WG1939973-5,42,, msd Quant Date : 6/27/2024 12:30 pm

Compound #60: 1260-1 #2



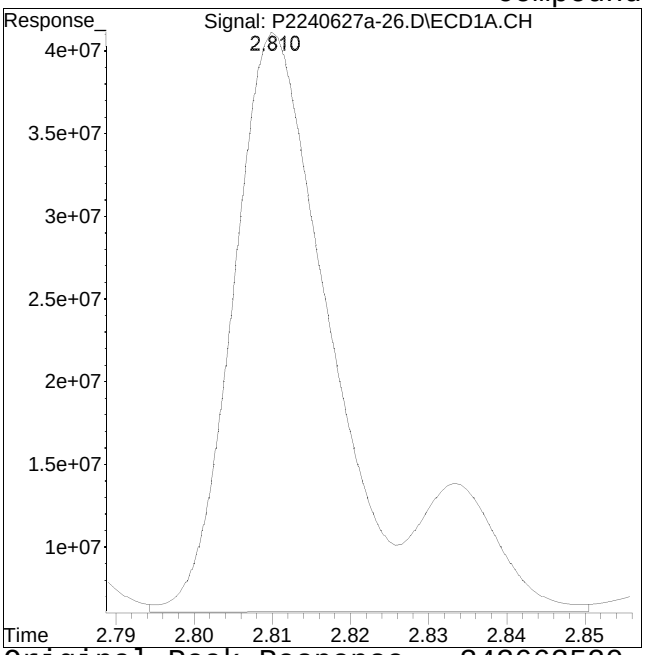


Original Peak Response = 152335892 Manual Peak Response = 148563691 M4
M4 = Poor automated baseline construction.

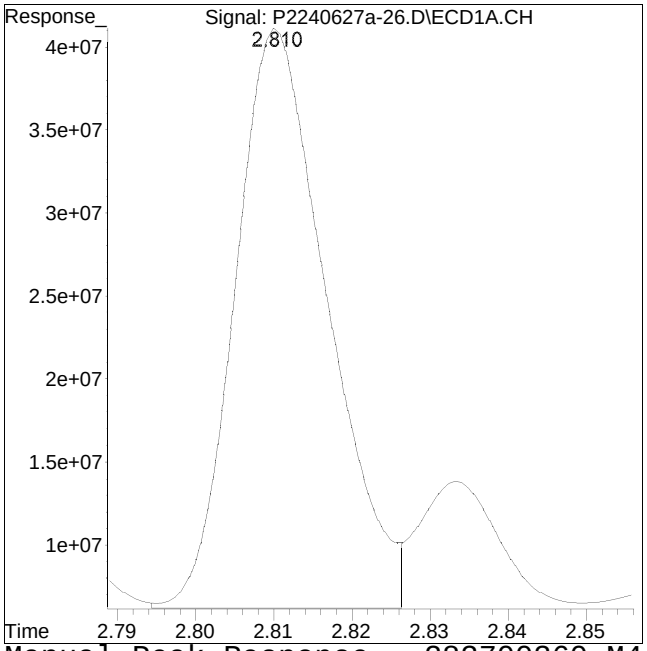
Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240627A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240627a-26.D Operator : pest2:mhg
Date Inj'd : 6/27/2024 12:20 Instrument : Pest 2
Sample : WG1939973-5,42,, msd Quant Date : 6/27/2024 12:30 pm

Compound #10: 1260-2



Original Peak Response = 343663520



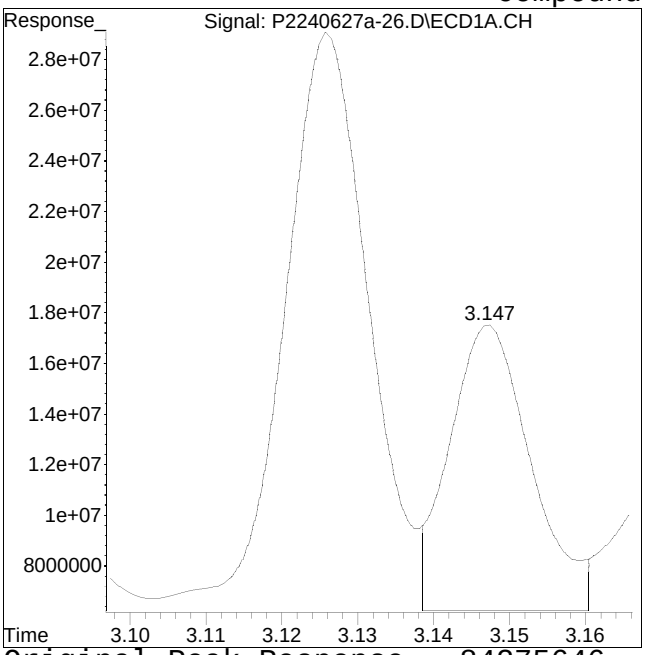
Manual Peak Response = 283700360 M4

M4 = Poor automated baseline construction.

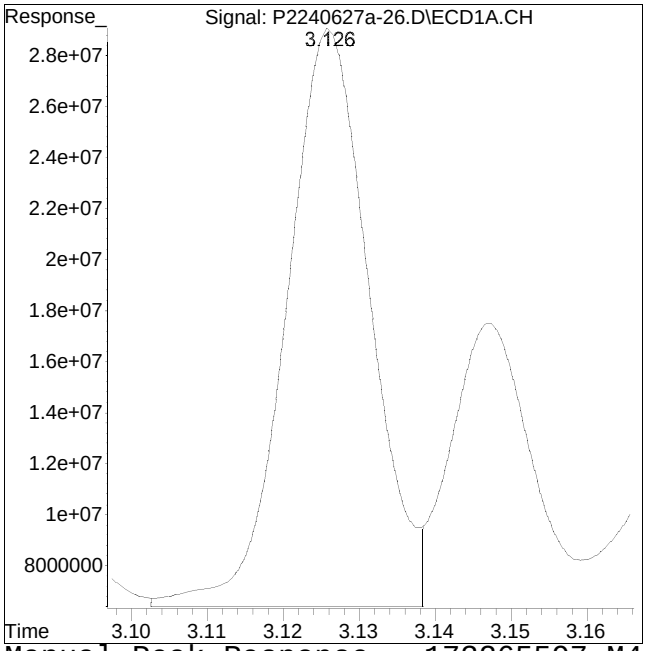
Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240627A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240627a-26.D Operator : pest2:mhg
Date Inj'd : 6/27/2024 12:20 Instrument : Pest 2
Sample : WG1939973-5,42,, msd Quant Date : 6/27/2024 12:30 pm

Compound #11: 1260-3



Original Peak Response = 84275646



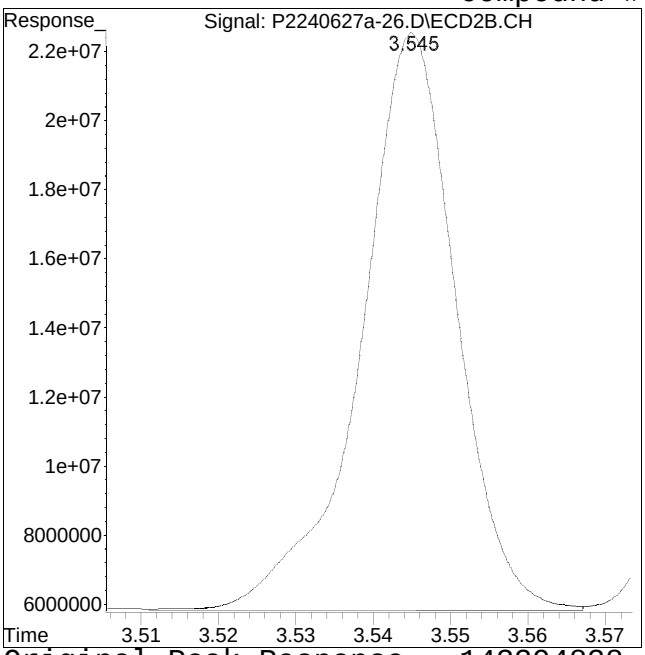
Manual Peak Response = 173265597 M4

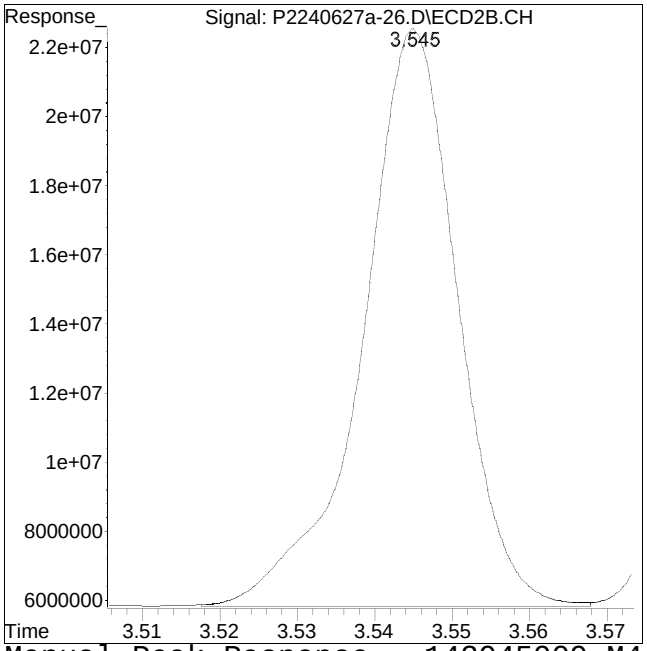
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240627A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240627a-26.D Operator : pest2:mhg
Date Inj'd : 6/27/2024 12:20 Instrument : Pest 2
Sample : WG1939973-5,42,, msd Quant Date : 6/27/2024 12:30 pm

Compound #62: 1260-3 #2



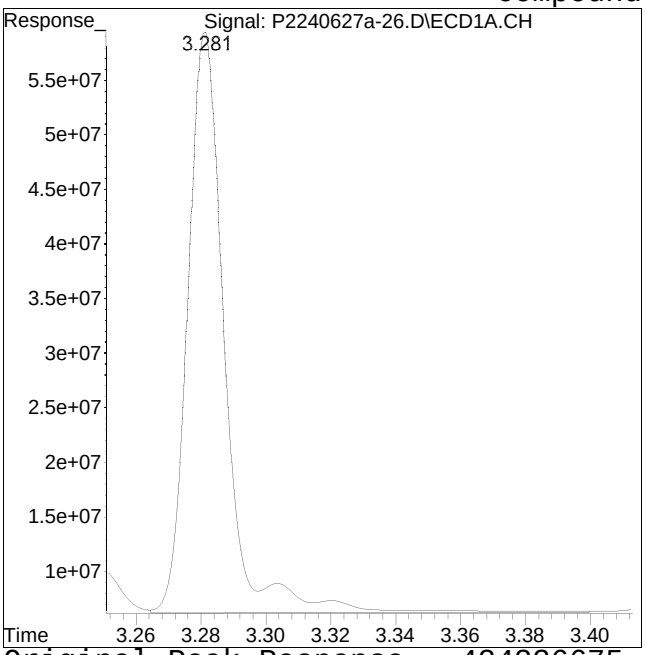


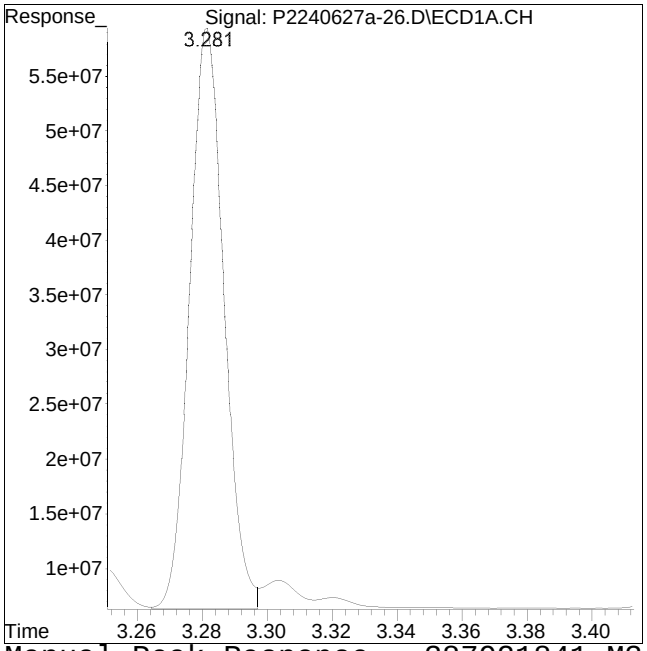
Original Peak Response = 143394838 Manual Peak Response = 142945909 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240627A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240627a-26.D Operator : pest2:mhg
Date Inj'd : 6/27/2024 12:20 Instrument : Pest 2
Sample : WG1939973-5,42,, msd Quant Date : 6/27/2024 12:30 pm

Compound #12: 1260-4



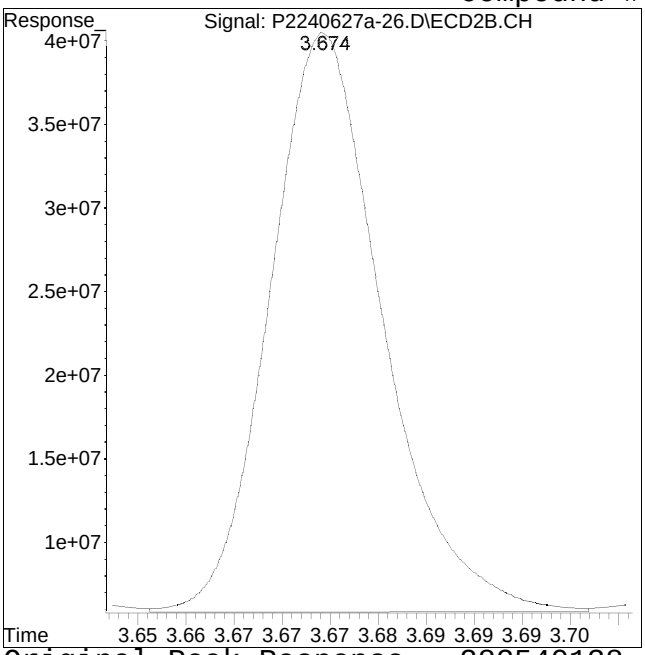


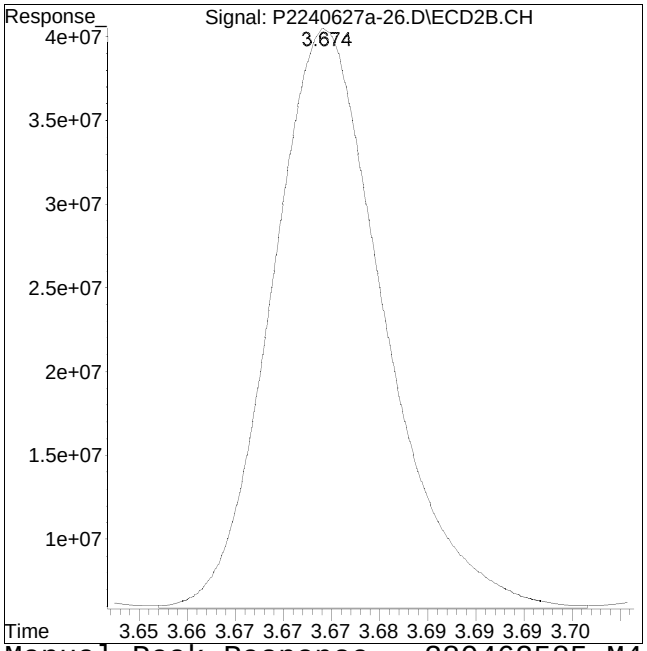
Original Peak Response = 424336675 Manual Peak Response = 387921841 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240627A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240627a-26.D Operator : pest2:mhg
Date Inj'd : 6/27/2024 12:20 Instrument : Pest 2
Sample : WG1939973-5,42,, msd Quant Date : 6/27/2024 12:30 pm

Compound #63: 1260-4 #2



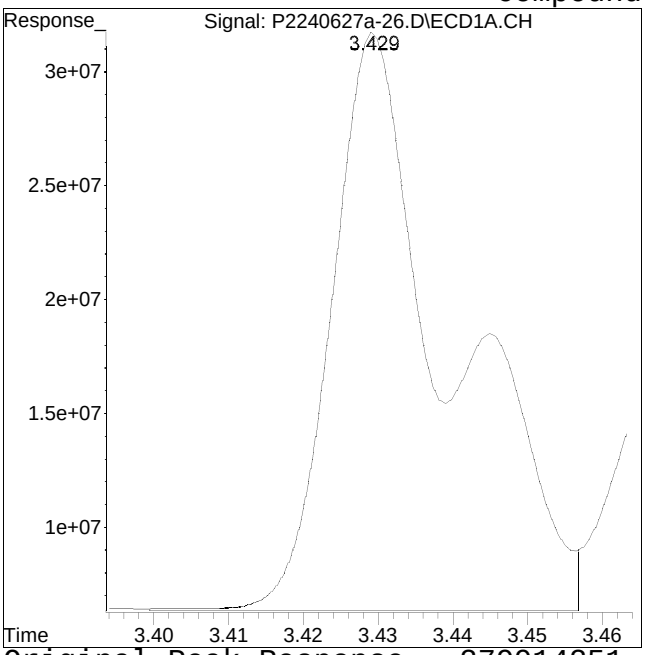


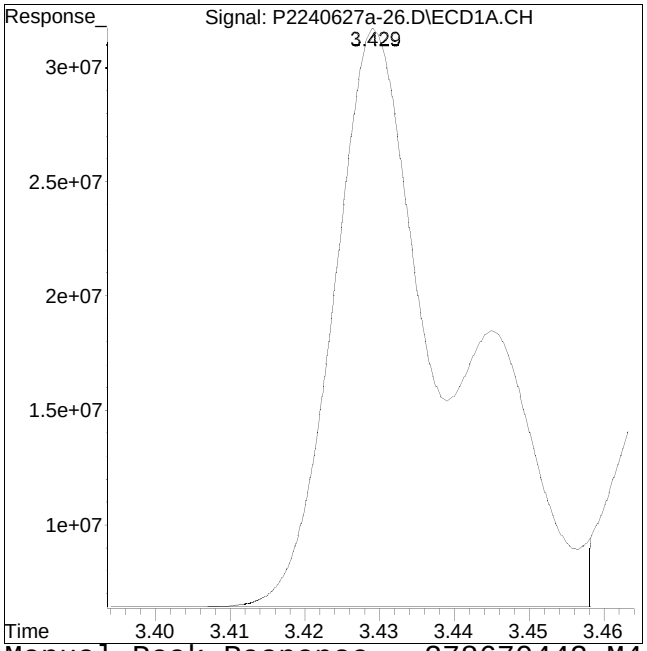
Original Peak Response = 282540138 Manual Peak Response = 280462585 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240627A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240627a-26.D Operator : pest2:mhg
Date Inj'd : 6/27/2024 12:20 Instrument : Pest 2
Sample : WG1939973-5,42,, msd Quant Date : 6/27/2024 12:30 pm

Compound #13: 1260-5



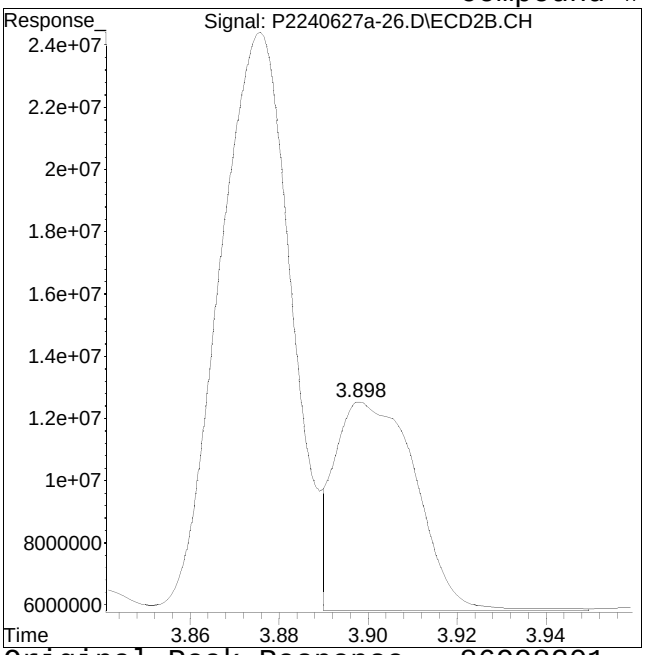


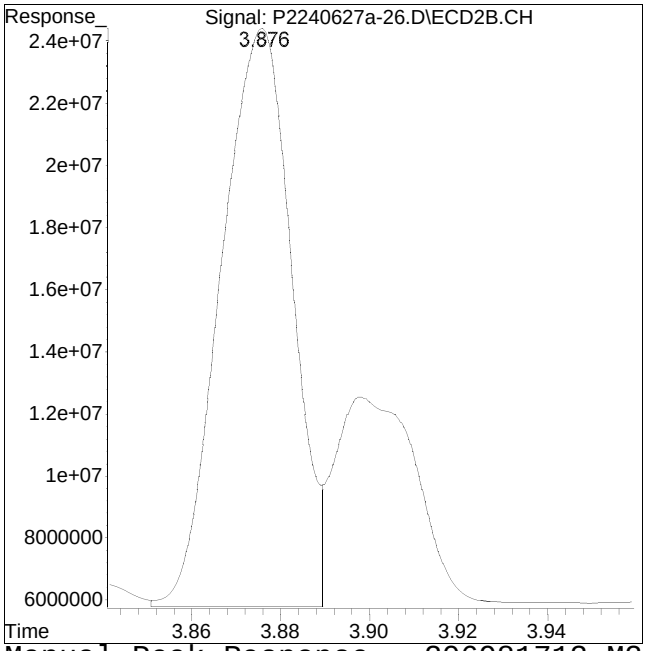
Original Peak Response = 279914251 Manual Peak Response = 278670442 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240627A\QMethod : P2_pcb_05_06_24_LVI_ugL_
Data File : P2240627a-26.D Operator : pest2:mhg
Date Inj'd : 6/27/2024 12:20 Instrument : Pest 2
Sample : WG1939973-5,42,, msd Quant Date : 6/27/2024 12:30 pm

Compound #64: 1260-5 #2





Original Peak Response = 86998201 Manual Peak Response = 206981713 M2
M2 = Peak not found by automatic integration algorithm.

Calculation of PCB Aroclors & Pesticides

Aqueous Concentration Formula:
Amt * DF*(Vt/Vp)*(1000/Vo)*(Ve/1000)

Where:
DF = Dilution Factor
Vt = Extract Final Volume (mL)
Vp = Aliquot Cleaned (mL)
Vo = Volume of Sample (mL)
Ve = Extraction Lab Final Volume (mL)

Soil Concentration Formula:
Amt * DF * (Vt/Vp)*(1000/Wt)*(Ve/1000)* (100/TS)

Where:
DF = Dilution Factor
Vt = Extract Final Volume (mL)
Vp = Aliquot Cleaned (mL)
Wt = Weight of Sample (g)
Ve = Extraction Lab Final Volume (mL)
TS = Total Solids

Dep.: PCB
Inst: Pest_2
Date: **05/06/24**
Run: **I**

Method
GC: lvi

Seq: WG1918477
IS: pp11528
ICAL21102

Vial	Data File	Sample	CCAL	notes	initials
1	P2240506i-01	blank			
2	P2240506i-02	+1660 ccal pp11545 lvi icv			
3	P2240506i-03	il44268,42e,,pp 11454			RMP 5/7
4	P2240506i-04	il43262,42e,,pp 11457			RMP 5/7
5	P2240506i-05	il41248,42e,,pp 11452			RMP 5/7
6	P2240506i-06	il42154,42e,,pp 11449			RMP 5/7
7	P2240506i-07	il11660,42e,,pp 11447	Interference		
8	P2240506i-08	il21660,42e,,pp 11447			RMP 5/7
9	P2240506i-09	il31660,42e,,pp 11447			RMP 5/7
10	P2240506i-10	il41660,42e,,pp 11447			RMP 5/7
11	P2240506i-11	il51660,42e,,pp 11447			RMP 5/7
12	P2240506i-12	il61660,42e,,pp 11447			RMP 5/7
13	P2240506i-13	cicv4268,42,,pp 11468			RMP 5/7
14	P2240506i-14	cicv3262,42,,pp 11467			RMP 5/7
15	P2240506i-15	cicv1248,42,,pp 11461			RMP 5/7
16	P2240506i-16	cicv2154,42,,pp 11460			RMP 5/7
17	P2240506i-17	cicv1660,42,,pp 11459	RR L1	V to F17 rmp	
18	P2240506i-18	blank			
19	P2240506i-19	il11660,42e,,pp 11447			RMP 5/7
20	P2240506i-20	cicv1660,42,,pp 11459		V to F20 rmp	RMP 5/7

Dep.: PCB
Inst: Pest_2
Date: **06/27/24**
Run: a

Method
GC: PCB

Seq: WG1940092
IS: pp11530
LVI

Vial	Data File	Sample	CCAL	notes	screen	initials
1	P2240627a-01	blank				
2	P2240627a-02	+1660 pp11597 lvi ccv	15% 5:39 092-1 akm			mhg 6/27
3	P2240627a-03	+2154 pp11619 lvi icv	p			
4	P2240627a-04	+1248 pp11620 lvi icv	p			
5	P2240627a-05	+4268 pp11623 lvi icv	42 p 68 f			
6	P2240627a-06	WG1939736-1,42,,			mhg	mhg 6/27
7	P2240627a-07	WG1939736-2,42,,				mhg 6/27
8	P2240627a-08	WG1939736-3,42,,				mhg 6/27
9	P2240627a-09	L2434740-01,42,,				mhg 6/27
10	P2240627a-10	L2434740-02,42,,				mhg 6/27
11	P2240627a-11	L2434740-03,42,,				mhg 6/27
12	P2240627a-12	L2434740-04,42,,				mhg 6/27
13	P2240627a-13	L2434740-05,42,,				mhg 6/27
14	P2240627a-14	L2434740-06,42,,				mhg 6/27
15	P2240627a-15	WG1939973-1,42,,				mhg 6/27
16	P2240627a-16	WG1939973-2,42,,				mhg 6/27
17	P2240627a-17	WG1939973-3,42,,				mhg 6/27
18	P2240627a-18	L2434679-06,42,,				mhg 6/27
19	P2240627a-19	L2434679-07,42,,	no IS rrun			
20	P2240627a-20	L2434679-08,42,,				mhg 6/27
21	P2240627a-21	L2434679-10,42,,		V to F21 mhg		mhg 6/27
22	P2240627a-22	L2434679-01,42,,				mhg 6/27
23	P2240627a-23	L2434679-02,42,,				mhg 6/27
24	P2240627a-24	L2434679-03,42,, p				mhg 6/27
25	P2240627a-25	WG1939973-4,42,, ms				mhg 6/27
26	P2240627a-26	WG1939973-5,42,, msd				mhg 6/27
27	P2240627a-27	L2434679-04,42,,				mhg 6/27
28	P2240627a-28	L2434679-05,42,,				
29	P2240627a-29	L2434679-09,42,,				
30	P2240627a-30	L2434679-11,42,,				
31	P2240627a-31	L2434679-12,42,,				
32	P2240627a-32	L2434679-14,42,,				
33	P2240627a-33	L2435023-17,42,,				
34	P2240627a-34	+1660 pp11597 lvi ccal		V to F34 mhg		

ALPHA ANALYTICAL LABORATORIES, INC.

Alpha WORK GROUP REPORT (wk02)

Jun 27 2024, 03:45 pm

Work Group: WG1939973 for Department: 2 Organic Preparation

Created: 26-JUN-24 Due: Operator: FMM

Sample	Client ID	C	Product	Matrix	Stat	UA	HOLD	DUE	PR	Location
L2434679-01	MW-3A	S	NYTCL-8082-LVI	WATER	DONE	U	0619	0626	S0	Amber-A.120
L2434679-02	MW-6A	S	NYTCL-8082-LVI	WATER	DONE	U	0618	0626	S0	Amber-A.120
L2434679-03	MW-6B	S	NYTCL-8082-LVI	WATER	DONE	U	0618	0626	S0	Amber-A.120
L2434679-04	MW-6C	S	NYTCL-8082-LVI	WATER	DONE	U	0618	0626	S0	Amber-A.120
L2434679-05	MW-7A	S	NYTCL-8082-LVI	WATER	DONE	U	0618	0626	S0	Amber-A.120
L2434679-06	MW-7B	S	NYTCL-8082-LVI	WATER	DONE	U	0618	0626	S0	Amber-A.120
L2434679-07	MW-7C	S	NYTCL-8082-LVI	WATER	DONE	U	0618	0626	S0	Amber-A.120
L2434679-08	MW-8A	S	NYTCL-8082-LVI	WATER	DONE	U	0618	0626	S0	Amber-A.120
L2434679-09	MW-8B	S	NYTCL-8082-LVI	WATER	DONE	U	0618	0626	S0	Amber-A.120
L2434679-10	MW-9B	S	NYTCL-8082-LVI	WATER	DONE	U	0619	0626	S0	Amber-A.120
L2434679-11	DUP	S	NYTCL-8082-LVI	WATER	DONE	U	0618	0626	S0	Amber-A.120
L2434679-12	EB	S	NYTCL-8082-LVI	WATER	DONE	U	0618	0626	S0	Amber-A.120
L2434679-14	MW-8B2	S	NYTCL-8082-LVI	WATER	DONE	U	0618	0626	S0	Amber-A.120
L2435023-17	FB_06202024	S	NYTCL-8082-LVI	WATER	DONE	U	0620	0627	S0	Amber-A.120
L2436260-01	MW-19B 06-26-24	S	NYTCL-8082-LVI	WATER	DONE	U	0626	0627	3A	Amber-A.120
L2436260-02	MW-19A 06-26-24	S	NYTCL-8082-LVI	WATER	DONE	U	0626	0627	3A	Amber-A.120
L2436260-03	NMAW-2B 06-26-24	S	NYTCL-8082-LVI	WATER	DONE	U	0626	0627	3A	Amber-A.120
L2436260-04	NMAW-2A 06-26-24	S	NYTCL-8082-LVI	WATER	DONE	U	0626	0627	3A	Amber-A.120
L2436260-05	GW-17B 06-26-24	S	NYTCL-8082-LVI	WATER	DONE	U	0626	0627	3A	Amber-A.120
L2436260-06	GW-17A 06-26-24	S	NYTCL-8082-LVI	WATER	DONE	U	0626	0627	3A	Amber-A.120
WG1939973-1	Laboratory Method Bl	S	NYTCL-8082-LVI	WATER	DONE	U				
WG1939973-2	Laboratory Control S	S	NYTCL-8082-LVI	WATER	DONE	U				
WG1939973-3	LCS Duplicate	S	NYTCL-8082-LVI	WATER	DONE	U				
WG1939973-4	Matrix Spike	S	NYTCL-8082-LVI	WATER	DONE	U				
WG1939973-5	Matrix Spike Duplica	S	NYTCL-8082-LVI	WATER	DONE	U				

Comments:

WG1939973-3	WG1939973-2
WG1939973-4	L2434679-03
WG1939973-5	L2434679-03

ORGANIC ELN REPORT

Workgroup: WG1939973

Prep Method: EPA 3510C
Solvent Type: DCM **Lot #:** EI748
Surrogate Type: Pesticide/PCB **Lot #:** PP11616aa,11/22/2024,2c,5,1
Spike Type: PCB **Lot #:** PP11443-D(07/02/24)
Spike Verify by: FMM
Lims Spikelot: PCB-LVI

Additional Reagents/Stds

Na2SO4	23L461008

Conc.Method: S-EVAP/N-EVAP
Solvent Type: Hexane
Lot #: EI650

Additional Reagents/Stds

Cleanup 1

Cleanup Method 1: EPA 3665A
Cleanup Method 2:
Solvent Type: Hexane **Lot #:** EI650

Additional Reagents/Stds

H2SO4	2024043085

Cleanup 2

Cleanup Method 1: EPA 3660B
Cleanup Method 2:
Solvent Type: Hexane **Lot #:** EI650

Additional Reagents/Stds

Copper	2401cpg001

Cleanup 3

Cleanup Method 1:
Solvent Type: **Lot #:**

Additional Reagents/Stds

Cleanup 4

Cleanup Method 1:
Solvent Type: **Lot #:**

Additional Reagents/Stds

Sample/ Type	Extraction: Extract Date	Analyst	Sample Vol ml	Ph	Surr Amt ml	Spike Amt ml	Concentration: Conc Date	Analyst	Final Vol ml	Conc Unit
L2434679-01 WATER	06/27/24 00:01	Francis Mbro-Menyah	140	>5,<9	.1		06/27/24 05:22	Rabbi Kyei-Baffour	5	D / A / #1
L2434679-02 WATER	06/27/24 00:01	Francis Mbro-Menyah	140	>5,<9	.1		06/27/24 05:22	Rabbi Kyei-Baffour	5	D / A / #1
L2434679-03 WATER	06/27/24 00:01	Francis Mbro-Menyah	140	>5,<9	.1		06/27/24 05:22	Rabbi Kyei-Baffour	5	D / A / #1
L2434679-04 WATER	06/27/24 00:01	Francis Mbro-Menyah	140	>5,<9	.1		06/27/24 05:22	Rabbi Kyei-Baffour	5	D / A / #1

Reported: 27-JUN-24 03:45 PM

ORGANIC ELN REPORT

Workgroup: WG1939973

Sample/ Type	Extraction						Concentration			
	Extract Date	Analyst	Sample Vol **ml**	Ph	Surr Amt **ml**	Spike Amt **ml**	Conc Date	Analyst	Final Vol **ml**	Conc Unit
L2434679-05 WATER	06/27/24 00:01	Francis Mbro-Menyah	140	>5,<9	.1		06/27/24 05:22	Rabbi Kyei-Baffour	5	D / A / #1
L2434679-06 WATER	06/27/24 00:01	Francis Mbro-Menyah	140	>5,<9	.1		06/27/24 05:22	Rabbi Kyei-Baffour	5	D / A / #1
L2434679-07 WATER	06/27/24 00:01	Francis Mbro-Menyah	140	>5,<9	.1		06/27/24 05:22	Rabbi Kyei-Baffour	5	D / A / #1
L2434679-08 WATER	06/27/24 00:01	Francis Mbro-Menyah	140	>5,<9	.1		06/27/24 05:22	Rabbi Kyei-Baffour	5	D / A / #1
L2434679-09 WATER	06/27/24 00:01	Francis Mbro-Menyah	140	>5,<9	.1		06/27/24 05:22	Rabbi Kyei-Baffour	5	D / A / #1
L2434679-10 WATER	06/27/24 00:01	Francis Mbro-Menyah	140	>5,<9	.1		06/27/24 05:22	Rabbi Kyei-Baffour	5	D / A / #1
L2434679-11 WATER	06/27/24 00:01	Francis Mbro-Menyah	140	>5,<9	.1		06/27/24 05:22	Rabbi Kyei-Baffour	5	D / A / #1
L2434679-12 WATER	06/27/24 00:01	Francis Mbro-Menyah	140	>5,<9	.1		06/27/24 05:22	Rabbi Kyei-Baffour	5	D / A / #1

Reported: 27-JUN-24 03:45 PM

ORGANIC ELN REPORT

Workgroup: WG1939973

Sample/ Type	Extraction						Concentration			
	Extract Date	Analyst	Sample Vol **ml**	Ph	Surr Amt **ml**	Spike Amt **ml**	Conc Date	Analyst	Final Vol **ml**	Conc Unit
L2434679-14 WATER	06/27/24 00:01	Francis Mbro-Menyah	140	>5,<9	.1		06/27/24 05:22	Rabbi Kyei-Baffour	5	D / A / #1
L2435023-17 SAMP	06/27/24 00:01	Francis Mbro-Menyah	140	>5,<9	.1		06/27/24 05:22	Rabbi Kyei-Baffour	5	D / A / #1
L2436260-01 SAMP	06/27/24 05:55	Francis Mbro-Menyah	140	>5,<9	.1		06/27/24 10:39	Kwame Mensah	5	H / K / #3
L2436260-02 SAMP	06/27/24 05:55	Francis Mbro-Menyah	140	>5,<9	.1		06/27/24 10:49	Kwame Mensah	5	H / K / #3
L2436260-03 SAMP	06/27/24 05:55	Francis Mbro-Menyah	140	>5,<9	.1		06/27/24 10:49	Kwame Mensah	5	H / K / #3
L2436260-04 SAMP	06/27/24 05:55	Francis Mbro-Menyah	140	>5,<9	.1		06/27/24 10:39	Kwame Mensah	5	H / K / #3
L2436260-05 SAMP	06/27/24 05:55	Francis Mbro-Menyah	140	>5,<9	.1		06/27/24 10:39	Kwame Mensah	5	H / K / #3
L2436260-06 SAMP	06/27/24 05:55	Francis Mbro-Menyah	140	>5,<9	.1		06/27/24 10:39	Kwame Mensah	5	H / K / #3

Reported: 27-JUN-24 03:45 PM

ORGANIC ELN REPORT

Workgroup: WG1939973

Sample/ Type	Extraction						Concentration			
	Extract Date	Analyst	Sample Vol **ml**	Ph	Surr Amt **ml**	Spike Amt **ml**	Conc Date	Analyst	Final Vol **ml**	Conc Unit
WG1939973-1 BLANK	06/27/24 00:01	Francis Mbro-Menyah	140	>5,<9	.1		06/27/24 05:22	Rabbi Kyei-Baffour	5	D / A / #1
WG1939973-2 LCS	06/27/24 00:01	Francis Mbro-Menyah	140	>5,<9	.1	.1	06/27/24 05:22	Rabbi Kyei-Baffour	5	D / A / #1
WG1939973-3 LCSD	06/27/24 00:01	Francis Mbro-Menyah	140	>5,<9	.1	.1	06/27/24 05:22	Rabbi Kyei-Baffour	5	D / A / #1
WG1939973-4 MS	06/27/24 00:01	Francis Mbro-Menyah	140	>5,<9	.1	.1	06/27/24 05:22	Rabbi Kyei-Baffour	5	D / A / #1
WG1939973-5 MSD	06/27/24 00:01	Francis Mbro-Menyah	140	>5,<9	.1	.1	06/27/24 05:22	Rabbi Kyei-Baffour	5	D / A / #1

ORGANIC ELN REPORT

Workgroup: WG1939973

Sample/ Type	Cleanup 1				Cleanup 2	
	Cleanup Date	Analyst	Pest Aliquot **ml**	Pest Final **ml**	Cleanup Date	Analyst
L2434679-01 WATER	06/27/24 05:42	Effie Ocran-Rigaud	5	1	06/27/24 08:13	Edith Delali
L2434679-02 WATER	06/27/24 05:42	Effie Ocran-Rigaud	5	1	06/27/24 08:13	Edith Delali
L2434679-03 WATER	06/27/24 05:42	Effie Ocran-Rigaud	5	1	06/27/24 08:13	Edith Delali
L2434679-04 WATER	06/27/24 05:42	Effie Ocran-Rigaud	5	1	06/27/24 08:13	Edith Delali
L2434679-05 WATER	06/27/24 05:42	Effie Ocran-Rigaud	5	1	06/27/24 08:13	Edith Delali
L2434679-06 WATER	06/27/24 05:42	Effie Ocran-Rigaud	5	1	06/27/24 08:13	Edith Delali
L2434679-07 WATER	06/27/24 05:42	Effie Ocran-Rigaud	5	1	06/27/24 08:13	Edith Delali
L2434679-08 WATER	06/27/24 05:42	Effie Ocran-Rigaud	5	1	06/27/24 08:13	Edith Delali
L2434679-09 WATER	06/27/24 05:42	Effie Ocran-Rigaud	5	1	06/27/24 08:13	Edith Delali
L2434679-10 WATER	06/27/24 05:42	Effie Ocran-Rigaud	5	1	06/27/24 08:13	Edith Delali
L2434679-11 WATER	06/27/24 05:42	Effie Ocran-Rigaud	5	1	06/27/24 08:13	Edith Delali

ORGANIC ELN REPORT

Workgroup: WG1939973

Sample/ Type	Cleanup 1				Cleanup 2	
	Cleanup Date	Analyst	Pest Aliquot **ml**	Pest Final **ml**	Cleanup Date	Analyst
L2434679-12 WATER	06/27/24 05:42	Effie Ocran-Rigaud	5	1	06/27/24 08:13	Edith Delali
L2434679-14 WATER	06/27/24 05:42	Effie Ocran-Rigaud	5	1	06/27/24 08:13	Edith Delali
L2435023-17 SAMP	06/27/24 05:42	Effie Ocran-Rigaud	5	1	06/27/24 08:13	Edith Delali
L2436260-01 SAMP	06/27/24 11:05	Priscilla Sarkodie	5	1	06/27/24 11:43	Priscilla Sarkodie
L2436260-02 SAMP	06/27/24 11:05	Priscilla Sarkodie	5	1	06/27/24 11:43	Priscilla Sarkodie
L2436260-03 SAMP	06/27/24 11:05	Priscilla Sarkodie	5	1	06/27/24 11:43	Priscilla Sarkodie
L2436260-04 SAMP	06/27/24 11:05	Priscilla Sarkodie	5	1	06/27/24 11:43	Priscilla Sarkodie
L2436260-05 SAMP	06/27/24 11:05	Priscilla Sarkodie	5	1	06/27/24 11:43	Priscilla Sarkodie
L2436260-06 SAMP	06/27/24 11:05	Priscilla Sarkodie	5	1	06/27/24 11:43	Priscilla Sarkodie
WG1939973-1 BLANK	06/27/24 05:42	Effie Ocran-Rigaud	5	1	06/27/24 08:13	Edith Delali
WG1939973-2 LCS	06/27/24 05:42	Effie Ocran-Rigaud	5	1	06/27/24 08:13	Edith Delali

ORGANIC ELN REPORT

Workgroup: WG1939973

Sample/ Type	Cleanup 1				Cleanup 2	
	Cleanup Date	Analyst	Pest Aliquot **ml**	Pest Final **ml**	Cleanup Date	Analyst
WG1939973-3 LCSD	06/27/24 05:42	Effie Ocran-Rigaud	5	1	06/27/24 08:13	Edith Delali
WG1939973-4 MS	06/27/24 05:42	Effie Ocran-Rigaud	5	1	06/27/24 08:13	Edith Delali
WG1939973-5 MSD	06/27/24 05:42	Effie Ocran-Rigaud	5	1	06/27/24 08:13	Edith Delali

GC Extractable Analysis
Pesticides

Pesticide QC Summary

Surrogate Recovery Summary
Form 2
Pesticides

Client: Alpha Geoscience
Project Name: RANCO MINE

Lab Number: L2434679
Project Number: 12123
Matrix: Water

GC Column 1: CLPPesticides
GC Column 2: CLPPesticidesII

CLIENT ID (LAB SAMPLE NO.)	TCX 1 %REC	TCX 2 %REC	DCB 1 %REC	DCB 2 %REC	OTHER (1)	OTHER (2)	TOT OUT
MW-3A (L2434679-01)	71	78	88	84			0
MW-6A (L2434679-02)	65	72	85	82			0
MW-6B (L2434679-03)	67	73	90	83			0
MW-6C (L2434679-04)	68	75	93	85			0
MW-7A (L2434679-05)	60	64	81	78			0
MW-7B (L2434679-06)	58	63	76	70			0
MW-7C (L2434679-07)	58	65	79	76			0
MW-8A (L2434679-08)	65	70	73	80			0
MW-8B (L2434679-09)	59	67	81	79			0
MW-9B (L2434679-10)	60	65	81	77			0
DUP (L2434679-11)	62	70	89	85			0
EB (L2434679-12)	69	74	54	51			0
MW-8B2 (L2434679-14)	61	68	81	78			0
WG1938134-1BLANK	57	63	84	75			0
WG1938134-2LCS	61	67	86	82			0
WG1938134-3LCSD	59	67	86	82			0
MW-6BMS	60	68	87	82			0
MW-6BMSD	60	67	85	81			0
WG1939408-1BLANK	69	76	84	60			0
WG1939408-2LCS	76	86	89	75			0
WG1939408-3LCSD	59	64	76	68			0

QC LIMITS
(30-150) TCX = 2,4,5,6-TETRACHLORO-M-XYLENE
(30-150) DCBP = DECACHLOROBIPHENYL

*** Values outside of QC limits**

FORM II NYTCL-8081

Laboratory Control Sample Summary
Form 3
Pesticides

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Matrix (Level)	: WATER (LOW)		
LCS Sample ID	: WG1938134-2	**Analysis Date** : 06/24/24 18:19	**File ID** : 10240624b-14
LCSD Sample ID	: WG1938134-3	**Analysis Date** : 06/24/24 18:30	**File ID** : 10240624b-15

	Laboratory Control Sample			Laboratory Control Duplicate					
Parameter	True (ug/l)	Found (ug/l)	%R	True (ug/l)	Found (ug/l)	%R	RPD	Recovery Limits	RPD Limit
Delta-BHC	0.357	0.239	67	0.357	0.249	70	4	30-150	20
Lindane	0.357	0.246	69	0.357	0.254	71	3	30-150	20
Alpha-BHC	0.357	0.250	70	0.357	0.259	73	4	30-150	20
Beta-BHC	0.357	0.265	74	0.357	0.273	76	3	30-150	20
Heptachlor	0.357	0.268	75	0.357	0.275	77	3	30-150	20
Aldrin	0.357	0.246	69	0.357	0.256	72	4	30-150	20
Heptachlor epoxide	0.357	0.257	72	0.357	0.264	74	3	30-150	20
Endrin	0.357	0.274	77	0.357	0.293	82	7	30-150	20
Endrin aldehyde	0.357	0.218	61	0.357	0.228	64	4	30-150	20
Endrin ketone	0.357	0.288	81	0.357	0.293	82	2	30-150	20
Dieldrin	0.357	0.284	80	0.357	0.290	81	2	30-150	20
4,4'-DDE	0.357	0.258	72	0.357	0.266	75	3	30-150	20
4,4'-DDD	0.357	0.284	80	0.357	0.293	82	3	30-150	20
4,4'-DDT	0.357	0.261	73	0.357	0.277	78	6	30-150	20
Endosulfan I	0.357	0.250	70	0.357	0.257	72	3	30-150	20
Endosulfan II	0.357	0.278	78	0.357	0.286	80	3	30-150	20
Endosulfan sulfate	0.357	0.262	73	0.357	0.274	77	4	30-150	20
Methoxychlor	0.357	0.343	96	0.357	0.359	101	5	30-150	20
cis-Chlordane	0.357	0.233	65	0.357	0.232	65	0	30-150	20
trans-Chlordane	0.357	0.282	79	0.357	0.292	82	3	30-150	20

Laboratory Control Sample Summary
Form 3
Pesticides

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Matrix (Level)	: WATER (LOW)		
LCS Sample ID	: WG1939408-2 **Analysis Date** : 06/26/24 20:29	**File ID**	: 10240626b-19
LCSD Sample ID	: WG1939408-3 **Analysis Date** : 06/26/24 20:40	**File ID**	: 10240626b-20

	Laboratory Control Sample			Laboratory Control Duplicate						
Parameter	True (ug/l)	Found (ug/l)	%R	True (ug/l)	Found (ug/l)	%R	RPD		Recovery Limits	RPD Limit
Delta-BHC	0.357	0.284	80	0.357	0.222	62	24	Q	30-150	20
Lindane	0.357	0.289	81	0.357	0.243	68	17		30-150	20
Alpha-BHC	0.357	0.300	84	0.357	0.252	71	17		30-150	20
Beta-BHC	0.357	0.309	87	0.357	0.260	73	17		30-150	20
Heptachlor	0.357	0.308	86	0.357	0.260	73	17		30-150	20
Aldrin	0.357	0.294	82	0.357	0.249	70	17		30-150	20
Heptachlor epoxide	0.357	0.298	83	0.357	0.254	71	16		30-150	20
Endrin	0.357	0.308	86	0.357	0.262	73	16		30-150	20
Endrin aldehyde	0.357	0.310	87	0.357	0.240	67	25	Q	30-150	20
Endrin ketone	0.357	0.328	92	0.357	0.274	77	18		30-150	20
Dieldrin	0.357	0.328	92	0.357	0.280	78	16		30-150	20
4,4'-DDE	0.357	0.302	85	0.357	0.257	72	16		30-150	20
4,4'-DDD	0.357	0.331	93	0.357	0.281	79	16		30-150	20
4,4'-DDT	0.357	0.317	89	0.357	0.267	75	17		30-150	20
Endosulfan I	0.357	0.292	82	0.357	0.248	69	16		30-150	20
Endosulfan II	0.357	0.321	90	0.357	0.262	73	20		30-150	20
Endosulfan sulfate	0.357	0.309	87	0.357	0.238	67	26	Q	30-150	20
Methoxychlor	0.357	0.391	109	0.357	0.330	92	16		30-150	20
cis-Chlordane	0.357	0.266	75	0.357	0.240	67	10		30-150	20
trans-Chlordane	0.357	0.330	92	0.357	0.283	79	15		30-150	20

Matrix Spike Sample Summary
Form 3
Pesticides

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Client Sample ID	: MW-6B	**Matrix (Level)**	: WATER (LOW)
Lab Sample ID	: L2434679-03	**Analysis Date**	: 06/24/24 19:03
Matrix Spike	: WG1938134-4	**MS Analysis Date**	: 06/24/24 19:14
Matrix Spike Dup	: WG1938134-5	**MSD Analysis Date**	: 06/24/24 19:25

		Matrix Spike Sample			Matrix Spike Duplicate					
Parameter	Sample Conc. (ug/l)	Spike Added (ug/l)	Spike Conc. (ug/l)	%R	Spike Added (ug/l)	Spike Conc. (ug/l)	%R	RPD	Recovery Limits	RPD Limit
Delta-BHC	ND	0.357	0.248	69	0.357	0.244	68	2	30-150	30
Lindane	ND	0.357	0.258	72	0.357	0.248	69	4	30-150	30
Alpha-BHC	ND	0.357	0.264	74	0.357	0.254	71	4	30-150	30
Beta-BHC	ND	0.357	0.278	78	0.357	0.268	75	4	30-150	30
Heptachlor	ND	0.357	0.279	78	0.357	0.270	76	3	30-150	30
Aldrin	ND	0.357	0.256	72	0.357	0.249	70	3	30-150	30
Heptachlor epoxide	ND	0.357	0.268	75	0.357	0.258	72	4	30-150	30
Endrin	ND	0.357	0.288	81	0.357	0.285	80	1	30-150	30
Endrin aldehyde	ND	0.357	0.227	64	0.357	0.233	65	3	30-150	30
Endrin ketone	ND	0.357	0.300	84	0.357	0.298	83	1	30-150	30
Dieldrin	ND	0.357	0.298	83	0.357	0.288	81	3	30-150	30
4,4'-DDE	ND	0.357	0.268	75	0.357	0.261	73	3	30-150	30
4,4'-DDD	ND	0.357	0.297	83	0.357	0.289	81	3	30-150	30
4,4'-DDT	ND	0.357	0.277	78	0.357	0.274	77	1	30-150	30
Endosulfan I	ND	0.357	0.262	73	0.357	0.259	72	1	30-150	30
Endosulfan II	ND	0.357	0.287	80	0.357	0.283	79	1	30-150	30
Endosulfan sulfate	ND	0.357	0.275	77	0.357	0.272	76	1	30-150	30
Methoxychlor	ND	0.357	0.369	103	0.357	0.374	105	1	30-150	30
cis-Chlordane	ND	0.357	0.246	69	0.357	0.236	66	4	30-150	30
trans-Chlordane	ND	0.357	0.297	83	0.357	0.288	81	3	30-150	30

Method Blank Summary
Form 4
Pesticides

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Lab Sample ID	: WG1938134-1	**Lab File ID**	: 10240624b-13
Matrix	: WATER	**Extraction Date**	: 06/23/24
Analysis Date (1)	: 06/24/24 18:08	**Analysis Date (2)**	: 06/24/24 18:08
Instrument ID (1)	: PEST10	**Instrument ID (2)**	: PEST10

Client Sample No.	Lab Sample ID	Analysis Date 1	Analysis Date 2
WG1938134-2LCS	WG1938134-2	06/24/24 18:19	06/24/24 18:19
WG1938134-3LCSD	WG1938134-3	06/24/24 18:30	06/24/24 18:30
MW-6A	L2434679-02	06/24/24 18:52	06/24/24 18:52
MW-6B	L2434679-03	06/24/24 19:03	06/24/24 19:03
MW-6BMS	WG1938134-4	06/24/24 19:14	06/24/24 19:14
MW-6BMSD	WG1938134-5	06/24/24 19:25	06/24/24 19:25
MW-6C	L2434679-04	06/24/24 19:36	06/24/24 19:36
MW-7A	L2434679-05	06/24/24 19:47	06/24/24 19:47
MW-7B	L2434679-06	06/24/24 19:58	06/24/24 19:58
MW-7C	L2434679-07	06/24/24 20:09	06/24/24 20:09
MW-8A	L2434679-08	06/24/24 20:20	06/24/24 20:20
MW-8B	L2434679-09	06/24/24 20:31	06/24/24 20:31
MW-9B	L2434679-10	06/24/24 20:42	06/24/24 20:42
DUP	L2434679-11	06/24/24 20:53	06/24/24 20:53
EB	L2434679-12	06/24/24 21:04	06/24/24 21:04
MW-8B2	L2434679-14	06/24/24 21:16	06/24/24 21:16

Method Blank Summary
Form 4
Pesticides

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Lab Sample ID	: WG1939408-1	**Lab File ID**	: 10240626b-18
Matrix	: WATER	**Extraction Date**	: 06/26/24
Analysis Date (1)	: 06/26/24 20:18	**Analysis Date (2)**	: 06/26/24 20:18
Instrument ID (1)	: PEST10	**Instrument ID (2)**	: PEST10

Client Sample No.	Lab Sample ID	Analysis Date 1	Analysis Date 2
WG1939408-2LCS	WG1939408-2	06/26/24 20:29	06/26/24 20:29
WG1939408-3LCSD	WG1939408-3	06/26/24 20:40	06/26/24 20:40
MW-3A	L2434679-01	06/26/24 21:02	06/26/24 21:02

Analytical Sequence
Form 8b
Pesticides

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Instrument ID	: PEST10	**Initial Calib. Date(s)**	: 05/02/24 05/02/24

Client ID	Lab ID	Date/Time Analyzed
R1827172-1 PEM	R1827172-1	05/02/24 15:58
Pesticides L1 (0.5ug/L)	R1827172-2	05/02/24 16:08
Pesticides L2 (1.0ug/L)	R1827172-3	05/02/24 16:20
Pesticides L3 (2.0ug/L)	R1827172-4	05/02/24 16:31
Pesticides L4 (3.0ug/L)	R1827172-5	05/02/24 16:42
Pesticides L5 (4.0ug/L)	R1827172-6	05/02/24 16:53
Pesticides L7 (10.0ug/L)	R1827172-7	05/02/24 17:04
Pesticides L8 (50.0ug/L)	R1827172-8	05/02/24 17:14
Pesticides L9 (100ug/L)	R1827172-9	05/02/24 17:25
Pesticides L10 (200ug/L)	R1827172-10	05/02/24 17:36
Pesticides L11 (400ug/L)	R1827172-11	05/02/24 17:47
R1827172-12 ICV	R1827172-12	05/02/24 17:58
Chlordane L3 (10ug/L)	R1827172-13	05/02/24 18:09
Chlordane L4 (20ug/L)	R1827172-14	05/02/24 18:20
Chlordane L5 (100ug/L)	R1827172-15	05/02/24 18:31
Chlordane L7 (500ug/L)	R1827172-16	05/02/24 18:42
Chlordane L8 (1000ug/L)	R1827172-17	05/02/24 18:53
Chlordane L9 (2000ug/L)	R1827172-18	05/02/24 19:04
Chlordane L10 (5000ug/L)	R1827172-20	05/02/24 19:15
R1827172-19 ICV	R1827172-19	05/02/24 19:26
Toxaphene L3 (20.0ug/L)	R1827172-21	05/02/24 19:37
Toxaphene L4 (100ug/L)	R1827172-22	05/02/24 19:48
Toxaphene L7 (1000ug/L)	R1827172-23	05/02/24 20:00
Toxaphene L8 (2000ug/L)	R1827172-24	05/02/24 20:11
Toxaphene L9 (5000ug/L)	R1827172-26	05/02/24 20:22
R1827172-25 ICV	R1827172-25	05/02/24 20:33
R1845102-1 PEM	R1845102-1	06/24/24 15:46
WG1938709-1 CCAL	WG1938709-1	06/24/24 15:57
WG1938709-2 CCAL	WG1938709-2	06/24/24 16:08
WG1938709-3 CCAL	WG1938709-3	06/24/24 16:19
WG1938134-1 BLANK	WG1938134-1	06/24/24 18:08
WG1938134-2 LCS	WG1938134-2	06/24/24 18:19
WG1938134-3 LCSD	WG1938134-3	06/24/24 18:30
MW-6A	L2434679-02	06/24/24 18:52
MW-6B	L2434679-03	06/24/24 19:03
MW-6B MS	WG1938134-4	06/24/24 19:14
MW-6B MSD	WG1938134-5	06/24/24 19:25
MW-6C	L2434679-04	06/24/24 19:36
MW-7A	L2434679-05	06/24/24 19:47
MW-7B	L2434679-06	06/24/24 19:58
MW-7C	L2434679-07	06/24/24 20:09
MW-8A	L2434679-08	06/24/24 20:20

Analytical Sequence
Form 8b
Pesticides

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Instrument ID	: PEST10	**Initial Calib. Date(s)**	: 05/02/24 05/02/24

Client ID	Lab ID	Date/Time Analyzed
MW-8B	L2434679-09	06/24/24 20:31
MW-9B	L2434679-10	06/24/24 20:42
DUP	L2434679-11	06/24/24 20:53
EB	L2434679-12	06/24/24 21:04
MW-8B2	L2434679-14	06/24/24 21:16
R1846414-1 PEM	R1846414-1	06/26/24 17:03
WG1939871-1 CCAL	WG1939871-1	06/26/24 17:14
WG1939871-2 CCAL	WG1939871-2	06/26/24 17:25
WG1939871-3 CCAL	WG1939871-3	06/26/24 17:36
WG1939408-1 BLANK	WG1939408-1	06/26/24 20:18
WG1939408-2 LCS	WG1939408-2	06/26/24 20:29
WG1939408-3 LCSD	WG1939408-3	06/26/24 20:40
MW-3A	L2434679-01	06/26/24 21:02

Date Created: 03/07/23
Created By: Jason Hebert
File: PM14022-1
Page: 1

Pesticides - EPA 8081B (SOIL)

Holding Time: 14 days
Container/Sample Preservation: 1 - Glass 250ml/8oz unpreserved

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria		
Delta-BHC	319-86-8	1.6008	0.31349	ug/kg	30-150	30	30-150	50	50			
Lindane	58-89-9	0.667	0.298149	ug/kg	30-150	30	30-150	50	50			
Alpha-BHC	319-84-6	0.667	0.189428	ug/kg	30-150	30	30-150	50	50			
Beta-BHC	319-85-7	1.6008	0.60697	ug/kg	30-150	30	30-150	50	50			
Heptachlor	76-44-8	0.8004	0.358846	ug/kg	30-150	30	30-150	50	50			
Aldrin	309-00-2	1.6008	0.563615	ug/kg	30-150	30	30-150	50	50			
Heptachlor epoxide	1024-57-3	3.0015	0.90045	ug/kg	30-150	30	30-150	50	50			
Endrin	72-20-8	0.667	0.27347	ug/kg	30-150	30	30-150	50	50			
Endrin aldehyde	7421-93-4	2.001	0.70035	ug/kg	30-150	30	30-150	50	50			
Endrin ketone	53494-70-5	1.6008	0.412206	ug/kg	30-150	30	30-150	50	50			
Dieldrin	60-57-1	1.0005	0.50025	ug/kg	30-150	30	30-150	50	50			
4,4'-DDE	72-55-9	1.6008	0.370185	ug/kg	30-150	30	30-150	50	50			
4,4'-DDD	72-54-8	1.6008	0.570952	ug/kg	30-150	30	30-150	50	50			
4,4'-DDT	50-29-3	3.0015	1.28731	ug/kg	30-150	30	30-150	50	50			
Endosulfan I	959-98-8	1.6008	0.378189	ug/kg	30-150	30	30-150	50	50			
Endosulfan II	33213-65-9	1.6008	0.534934	ug/kg	30-150	30	30-150	50	50			
Endosulfan sulfate	1031-07-8	0.667	0.317492	ug/kg	30-150	30	30-150	50	50			
Methoxychlor	72-43-5	3.0015	0.9338	ug/kg	30-150	30	30-150	50	50			
Toxaphene	8001-35-2	30.015	8.4042	ug/kg	30-150	30	30-150	50	50			
Chlordane	57-74-9	13.34	5.30265	ug/kg	30-150	30	30-150	50	50			
cis-Chlordane	5103-71-9	2.001	0.557612	ug/kg	30-150	30	30-150	50	50			
trans-Chlordane	5103-74-2	2.001	0.528264	ug/kg	30-150	30	30-150	50	50			
2,4,5,6-Tetrachloro-m-xylene	*877-09-8*									*30-150*		
Decachlorobiphenyl	*2051-24-3*									*30-150*		

Please Note that the RL information provided in this table is calculated using a 100% Solids factor. (Soil/Solids only)
Please Note that the information provided in this table is subject to change at anytime at the discretion of Alpha Analytical, Inc.

Date Created: 03/07/23
Created By: Jason Hebert
File: PM14021-1
Page: 1

Pesticides - EPA 8081B (WATER)

Holding Time: 7 days
Container/Sample Preservation: 2 - Amber 120ml unpreserved

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria		
Delta-BHC	319-86-8	0.02	0.00467	ug/l	30-150	20	30-150	30	30			
Lindane	58-89-9	0.02	0.00434	ug/l	30-150	20	30-150	30	30			
Alpha-BHC	319-84-6	0.02	0.00439	ug/l	30-150	20	30-150	30	30			
Beta-BHC	319-85-7	0.02	0.0056	ug/l	30-150	20	30-150	30	30			
Heptachlor	76-44-8	0.02	0.0031	ug/l	30-150	20	30-150	30	30			
Aldrin	309-00-2	0.02	0.00216	ug/l	30-150	20	30-150	30	30			
Heptachlor epoxide	1024-57-3	0.02	0.00415	ug/l	30-150	20	30-150	30	30			
Endrin	72-20-8	0.04	0.00429	ug/l	30-150	20	30-150	30	30			
Endrin aldehyde	7421-93-4	0.04	0.0081	ug/l	30-150	20	30-150	30	30			
Endrin ketone	53494-70-5	0.04	0.00477	ug/l	30-150	20	30-150	30	30			
Dieldrin	60-57-1	0.04	0.00429	ug/l	30-150	20	30-150	30	30			
4,4'-DDE	72-55-9	0.04	0.00381	ug/l	30-150	20	30-150	30	30			
4,4'-DDD	72-54-8	0.04	0.00464	ug/l	30-150	20	30-150	30	30			
4,4'-DDT	50-29-3	0.04	0.00432	ug/l	30-150	20	30-150	30	30			
Endosulfan I	959-98-8	0.02	0.00345	ug/l	30-150	20	30-150	30	30			
Endosulfan II	33213-65-9	0.04	0.00519	ug/l	30-150	20	30-150	30	30			
Endosulfan sulfate	1031-07-8	0.04	0.00481	ug/l	30-150	20	30-150	30	30			
Methoxychlor	72-43-5	0.2	0.00684	ug/l	30-150	20	30-150	30	30			
Toxaphene	8001-35-2	0.2	0.0627	ug/l	30-150	20	30-150	30	30			
Chlordane	57-74-9	0.2	0.0463	ug/l	40-140	20	30-150	30	30			
cis-Chlordane	5103-71-9	0.02	0.00666	ug/l	30-150	20	30-150	30	30			
trans-Chlordane	5103-74-2	0.02	0.00627	ug/l	30-150	20	30-150	30	30			
2,4,5,6-Tetrachloro-m-xylene	*877-09-8*									*30-150*		
Decachlorobiphenyl	*2051-24-3*									*30-150*		

Please Note that the RL information provided in this table is calculated using a 100% Solids factor. (Soil/Solids only)
Please Note that the information provided in this table is subject to change at anytime at the discretion of Alpha Analytical, Inc.

Pesticide Sample Data

Results Summary
Form 1
Organochlorine Pesticides by GC

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Lab ID	: L2434679-01	**Date Collected**	: 06/19/24 09:30
Client ID	: MW-3A	**Date Received**	: 06/19/24
Sample Location	: MANORVILLE, NY	**Date Analyzed**	: 06/26/24 21:02
Sample Matrix	: WATER	**Date Extracted**	: 06/26/24
Analytical Method	: 1,8081B	**Dilution Factor**	: 1
Lab File ID	: 10240626b-22	**Analyst**	: PEG
Sample Amount	: 140 ml	**Instrument ID**	: PEST10
Extraction Method	: EPA 3510C	**GC Column**	: CLPPesticides
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL
Sulfur Cleanup	: N		

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
319-86-8	Delta-BHC	ND	0.014	0.003	U
58-89-9	Lindane	ND	0.014	0.003	U
319-84-6	Alpha-BHC	ND	0.014	0.003	U
319-85-7	Beta-BHC	ND	0.014	0.004	U
76-44-8	Heptachlor	ND	0.014	0.002	U
309-00-2	Aldrin	ND	0.014	0.002	U
1024-57-3	Heptachlor epoxide	ND	0.014	0.003	U
72-20-8	Endrin	ND	0.029	0.003	U
7421-93-4	Endrin aldehyde	ND	0.029	0.006	U
53494-70-5	Endrin ketone	ND	0.029	0.003	U
60-57-1	Dieldrin	ND	0.029	0.003	U
72-55-9	4,4'-DDE	ND	0.029	0.003	U
72-54-8	4,4'-DDD	ND	0.029	0.003	U
50-29-3	4,4'-DDT	ND	0.029	0.003	U
959-98-8	Endosulfan I	ND	0.014	0.002	U
33213-65-9	Endosulfan II	ND	0.029	0.004	U
1031-07-8	Endosulfan sulfate	ND	0.029	0.003	U
72-43-5	Methoxychlor	ND	0.143	0.005	U
8001-35-2	Toxaphene	ND	0.143	0.045	U
5103-71-9	cis-Chlordane	ND	0.014	0.005	U
5103-74-2	trans-Chlordane	ND	0.014	0.004	U

Results Summary
Form 1
Organochlorine Pesticides by GC

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Lab ID	: L2434679-01	**Date Collected**	: 06/19/24 09:30
Client ID	: MW-3A	**Date Received**	: 06/19/24
Sample Location	: MANORVILLE, NY	**Date Analyzed**	: 06/26/24 21:02
Sample Matrix	: WATER	**Date Extracted**	: 06/26/24
Analytical Method	: 1,8081B	**Dilution Factor**	: 1
Lab File ID	: 10240626b-22	**Analyst**	: PEG
Sample Amount	: 140 ml	**Instrument ID**	: PEST10
Extraction Method	: EPA 3510C	**GC Column**	: CLPPesticides
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL
Sulfur Cleanup	: N		

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
57-74-9	Chlordane	ND	0.143	0.033	U

Results Summary
Form 1
Organochlorine Pesticides by GC

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Lab ID	: L2434679-02	**Date Collected**	: 06/18/24 16:35
Client ID	: MW-6A	**Date Received**	: 06/19/24
Sample Location	: MANORVILLE, NY	**Date Analyzed**	: 06/24/24 18:52
Sample Matrix	: WATER	**Date Extracted**	: 06/23/24
Analytical Method	: 1,8081B	**Dilution Factor**	: 1
Lab File ID	: 10240624b-17	**Analyst**	: EMR
Sample Amount	: 140 ml	**Instrument ID**	: PEST10
Extraction Method	: EPA 3510C	**GC Column**	: CLPPesticides
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL
Sulfur Cleanup	: N		

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
319-86-8	Delta-BHC	ND	0.014	0.003	U
58-89-9	Lindane	ND	0.014	0.003	U
319-84-6	Alpha-BHC	ND	0.014	0.003	U
319-85-7	Beta-BHC	ND	0.014	0.004	U
76-44-8	Heptachlor	ND	0.014	0.002	U
309-00-2	Aldrin	ND	0.014	0.002	U
1024-57-3	Heptachlor epoxide	ND	0.014	0.003	U
72-20-8	Endrin	ND	0.029	0.003	U
7421-93-4	Endrin aldehyde	ND	0.029	0.006	U
53494-70-5	Endrin ketone	ND	0.029	0.003	U
60-57-1	Dieldrin	ND	0.029	0.003	U
72-55-9	4,4'-DDE	ND	0.029	0.003	U
72-54-8	4,4'-DDD	ND	0.029	0.003	U
50-29-3	4,4'-DDT	ND	0.029	0.003	U
959-98-8	Endosulfan I	ND	0.014	0.002	U
33213-65-9	Endosulfan II	ND	0.029	0.004	U
1031-07-8	Endosulfan sulfate	ND	0.029	0.003	U
72-43-5	Methoxychlor	ND	0.143	0.005	U
8001-35-2	Toxaphene	ND	0.143	0.045	U
5103-71-9	cis-Chlordane	ND	0.014	0.005	U
5103-74-2	trans-Chlordane	ND	0.014	0.004	U

Results Summary
Form 1
Organochlorine Pesticides by GC

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Lab ID	: L2434679-02	**Date Collected**	: 06/18/24 16:35
Client ID	: MW-6A	**Date Received**	: 06/19/24
Sample Location	: MANORVILLE, NY	**Date Analyzed**	: 06/24/24 18:52
Sample Matrix	: WATER	**Date Extracted**	: 06/23/24
Analytical Method	: 1,8081B	**Dilution Factor**	: 1
Lab File ID	: 10240624b-17	**Analyst**	: EMR
Sample Amount	: 140 ml	**Instrument ID**	: PEST10
Extraction Method	: EPA 3510C	**GC Column**	: CLPPesticides
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL
Sulfur Cleanup	: N		

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
57-74-9	Chlordane	ND	0.143	0.033	U

Results Summary
Form 1
Organochlorine Pesticides by GC

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Lab ID	: L2434679-03	**Date Collected**	: 06/18/24 14:50
Client ID	: MW-6B	**Date Received**	: 06/19/24
Sample Location	: MANORVILLE, NY	**Date Analyzed**	: 06/24/24 19:03
Sample Matrix	: WATER	**Date Extracted**	: 06/23/24
Analytical Method	: 1,8081B	**Dilution Factor**	: 1
Lab File ID	: 10240624b-18	**Analyst**	: EMR
Sample Amount	: 140 ml	**Instrument ID**	: PEST10
Extraction Method	: EPA 3510C	**GC Column**	: CLPPesticides
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL
Sulfur Cleanup	: N		

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
319-86-8	Delta-BHC	ND	0.014	0.003	U
58-89-9	Lindane	ND	0.014	0.003	U
319-84-6	Alpha-BHC	ND	0.014	0.003	U
319-85-7	Beta-BHC	ND	0.014	0.004	U
76-44-8	Heptachlor	ND	0.014	0.002	U
309-00-2	Aldrin	ND	0.014	0.002	U
1024-57-3	Heptachlor epoxide	ND	0.014	0.003	U
72-20-8	Endrin	ND	0.029	0.003	U
7421-93-4	Endrin aldehyde	ND	0.029	0.006	U
53494-70-5	Endrin ketone	ND	0.029	0.003	U
60-57-1	Dieldrin	ND	0.029	0.003	U
72-55-9	4,4'-DDE	ND	0.029	0.003	U
72-54-8	4,4'-DDD	ND	0.029	0.003	U
50-29-3	4,4'-DDT	ND	0.029	0.003	U
959-98-8	Endosulfan I	ND	0.014	0.002	U
33213-65-9	Endosulfan II	ND	0.029	0.004	U
1031-07-8	Endosulfan sulfate	ND	0.029	0.003	U
72-43-5	Methoxychlor	ND	0.143	0.005	U
8001-35-2	Toxaphene	ND	0.143	0.045	U
5103-71-9	cis-Chlordane	ND	0.014	0.005	U
5103-74-2	trans-Chlordane	ND	0.014	0.004	U

Results Summary
Form 1
Organochlorine Pesticides by GC

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Lab ID	: L2434679-03	**Date Collected**	: 06/18/24 14:50
Client ID	: MW-6B	**Date Received**	: 06/19/24
Sample Location	: MANORVILLE, NY	**Date Analyzed**	: 06/24/24 19:03
Sample Matrix	: WATER	**Date Extracted**	: 06/23/24
Analytical Method	: 1,8081B	**Dilution Factor**	: 1
Lab File ID	: 10240624b-18	**Analyst**	: EMR
Sample Amount	: 140 ml	**Instrument ID**	: PEST10
Extraction Method	: EPA 3510C	**GC Column**	: CLPPesticides
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL
Sulfur Cleanup	: N		

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
57-74-9	Chlordane	ND	0.143	0.033	U

Results Summary
Form 1
Organochlorine Pesticides by GC

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Lab ID	: L2434679-04	**Date Collected**	: 06/18/24 14:49
Client ID	: MW-6C	**Date Received**	: 06/19/24
Sample Location	: MANORVILLE, NY	**Date Analyzed**	: 06/24/24 19:36
Sample Matrix	: WATER	**Date Extracted**	: 06/23/24
Analytical Method	: 1,8081B	**Dilution Factor**	: 1
Lab File ID	: 10240624b-21	**Analyst**	: EMR
Sample Amount	: 140 ml	**Instrument ID**	: PEST10
Extraction Method	: EPA 3510C	**GC Column**	: CLPPesticides
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL
Sulfur Cleanup	: N		

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
319-86-8	Delta-BHC	ND	0.014	0.003	U
58-89-9	Lindane	ND	0.014	0.003	U
319-84-6	Alpha-BHC	ND	0.014	0.003	U
319-85-7	Beta-BHC	ND	0.014	0.004	U
76-44-8	Heptachlor	ND	0.014	0.002	U
309-00-2	Aldrin	ND	0.014	0.002	U
1024-57-3	Heptachlor epoxide	ND	0.014	0.003	U
72-20-8	Endrin	ND	0.029	0.003	U
7421-93-4	Endrin aldehyde	ND	0.029	0.006	U
53494-70-5	Endrin ketone	ND	0.029	0.003	U
60-57-1	Dieldrin	ND	0.029	0.003	U
72-55-9	4,4'-DDE	ND	0.029	0.003	U
72-54-8	4,4'-DDD	ND	0.029	0.003	U
50-29-3	4,4'-DDT	ND	0.029	0.003	U
959-98-8	Endosulfan I	ND	0.014	0.002	U
33213-65-9	Endosulfan II	ND	0.029	0.004	U
1031-07-8	Endosulfan sulfate	ND	0.029	0.003	U
72-43-5	Methoxychlor	ND	0.143	0.005	U
8001-35-2	Toxaphene	ND	0.143	0.045	U
5103-71-9	cis-Chlordane	ND	0.014	0.005	U
5103-74-2	trans-Chlordane	ND	0.014	0.004	U

Results Summary
Form 1
Organochlorine Pesticides by GC

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Lab ID	: L2434679-04	**Date Collected**	: 06/18/24 14:49
Client ID	: MW-6C	**Date Received**	: 06/19/24
Sample Location	: MANORVILLE, NY	**Date Analyzed**	: 06/24/24 19:36
Sample Matrix	: WATER	**Date Extracted**	: 06/23/24
Analytical Method	: 1,8081B	**Dilution Factor**	: 1
Lab File ID	: 10240624b-21	**Analyst**	: EMR
Sample Amount	: 140 ml	**Instrument ID**	: PEST10
Extraction Method	: EPA 3510C	**GC Column**	: CLPPesticides
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL
Sulfur Cleanup	: N		

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
57-74-9	Chlordane	ND	0.143	0.033	U

Results Summary
Form 1
Organochlorine Pesticides by GC

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Lab ID	: L2434679-05	**Date Collected**	: 06/18/24 10:15
Client ID	: MW-7A	**Date Received**	: 06/19/24
Sample Location	: MANORVILLE, NY	**Date Analyzed**	: 06/24/24 19:47
Sample Matrix	: WATER	**Date Extracted**	: 06/23/24
Analytical Method	: 1,8081B	**Dilution Factor**	: 1
Lab File ID	: 10240624b-22	**Analyst**	: EMR
Sample Amount	: 140 ml	**Instrument ID**	: PEST10
Extraction Method	: EPA 3510C	**GC Column**	: CLPPesticides
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL
Sulfur Cleanup	: N		

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
319-86-8	Delta-BHC	ND	0.014	0.003	U
58-89-9	Lindane	ND	0.014	0.003	U
319-84-6	Alpha-BHC	ND	0.014	0.003	U
319-85-7	Beta-BHC	ND	0.014	0.004	U
76-44-8	Heptachlor	ND	0.014	0.002	U
309-00-2	Aldrin	ND	0.014	0.002	U
1024-57-3	Heptachlor epoxide	ND	0.014	0.003	U
72-20-8	Endrin	ND	0.029	0.003	U
7421-93-4	Endrin aldehyde	ND	0.029	0.006	U
53494-70-5	Endrin ketone	ND	0.029	0.003	U
60-57-1	Dieldrin	ND	0.029	0.003	U
72-55-9	4,4'-DDE	ND	0.029	0.003	U
72-54-8	4,4'-DDD	ND	0.029	0.003	U
50-29-3	4,4'-DDT	ND	0.029	0.003	U
959-98-8	Endosulfan I	ND	0.014	0.002	U
33213-65-9	Endosulfan II	ND	0.029	0.004	U
1031-07-8	Endosulfan sulfate	ND	0.029	0.003	U
72-43-5	Methoxychlor	ND	0.143	0.005	U
8001-35-2	Toxaphene	ND	0.143	0.045	U
5103-71-9	cis-Chlordane	ND	0.014	0.005	U
5103-74-2	trans-Chlordane	ND	0.014	0.004	U

Results Summary
Form 1
Organochlorine Pesticides by GC

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Lab ID	: L2434679-05	**Date Collected**	: 06/18/24 10:15
Client ID	: MW-7A	**Date Received**	: 06/19/24
Sample Location	: MANORVILLE, NY	**Date Analyzed**	: 06/24/24 19:47
Sample Matrix	: WATER	**Date Extracted**	: 06/23/24
Analytical Method	: 1,8081B	**Dilution Factor**	: 1
Lab File ID	: 10240624b-22	**Analyst**	: EMR
Sample Amount	: 140 ml	**Instrument ID**	: PEST10
Extraction Method	: EPA 3510C	**GC Column**	: CLPPesticides
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL
Sulfur Cleanup	: N		

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
57-74-9	Chlordane	ND	0.143	0.033	U

Results Summary
Form 1
Organochlorine Pesticides by GC

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Lab ID	: L2434679-06	**Date Collected**	: 06/18/24 12:05
Client ID	: MW-7B	**Date Received**	: 06/19/24
Sample Location	: MANORVILLE, NY	**Date Analyzed**	: 06/24/24 19:58
Sample Matrix	: WATER	**Date Extracted**	: 06/23/24
Analytical Method	: 1,8081B	**Dilution Factor**	: 1
Lab File ID	: 10240624b-23	**Analyst**	: EMR
Sample Amount	: 140 ml	**Instrument ID**	: PEST10
Extraction Method	: EPA 3510C	**GC Column**	: CLPPesticides
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL
Sulfur Cleanup	: N		

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
319-86-8	Delta-BHC	ND	0.014	0.003	U
58-89-9	Lindane	ND	0.014	0.003	U
319-84-6	Alpha-BHC	ND	0.014	0.003	U
319-85-7	Beta-BHC	ND	0.014	0.004	U
76-44-8	Heptachlor	ND	0.014	0.002	U
309-00-2	Aldrin	ND	0.014	0.002	U
1024-57-3	Heptachlor epoxide	ND	0.014	0.003	U
72-20-8	Endrin	ND	0.029	0.003	U
7421-93-4	Endrin aldehyde	ND	0.029	0.006	U
53494-70-5	Endrin ketone	ND	0.029	0.003	U
60-57-1	Dieldrin	ND	0.029	0.003	U
72-55-9	4,4'-DDE	ND	0.029	0.003	U
72-54-8	4,4'-DDD	ND	0.029	0.003	U
50-29-3	4,4'-DDT	ND	0.029	0.003	U
959-98-8	Endosulfan I	ND	0.014	0.002	U
33213-65-9	Endosulfan II	ND	0.029	0.004	U
1031-07-8	Endosulfan sulfate	ND	0.029	0.003	U
72-43-5	Methoxychlor	ND	0.143	0.005	U
8001-35-2	Toxaphene	ND	0.143	0.045	U
5103-71-9	cis-Chlordane	ND	0.014	0.005	U
5103-74-2	trans-Chlordane	ND	0.014	0.004	U

Results Summary
Form 1
Organochlorine Pesticides by GC

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Lab ID	: L2434679-06	**Date Collected**	: 06/18/24 12:05
Client ID	: MW-7B	**Date Received**	: 06/19/24
Sample Location	: MANORVILLE, NY	**Date Analyzed**	: 06/24/24 19:58
Sample Matrix	: WATER	**Date Extracted**	: 06/23/24
Analytical Method	: 1,8081B	**Dilution Factor**	: 1
Lab File ID	: 10240624b-23	**Analyst**	: EMR
Sample Amount	: 140 ml	**Instrument ID**	: PEST10
Extraction Method	: EPA 3510C	**GC Column**	: CLPPesticides
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL
Sulfur Cleanup	: N		

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
57-74-9	Chlordane	ND	0.143	0.033	U

Results Summary
Form 1
Organochlorine Pesticides by GC

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Lab ID	: L2434679-07	**Date Collected**	: 06/18/24 12:12
Client ID	: MW-7C	**Date Received**	: 06/19/24
Sample Location	: MANORVILLE, NY	**Date Analyzed**	: 06/24/24 20:09
Sample Matrix	: WATER	**Date Extracted**	: 06/23/24
Analytical Method	: 1,8081B	**Dilution Factor**	: 1
Lab File ID	: 10240624b-24	**Analyst**	: EMR
Sample Amount	: 140 ml	**Instrument ID**	: PEST10
Extraction Method	: EPA 3510C	**GC Column**	: CLPPesticides
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL
Sulfur Cleanup	: N		

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
319-86-8	Delta-BHC	ND	0.014	0.003	U
58-89-9	Lindane	ND	0.014	0.003	U
319-84-6	Alpha-BHC	ND	0.014	0.003	U
319-85-7	Beta-BHC	ND	0.014	0.004	U
76-44-8	Heptachlor	ND	0.014	0.002	U
309-00-2	Aldrin	ND	0.014	0.002	U
1024-57-3	Heptachlor epoxide	ND	0.014	0.003	U
72-20-8	Endrin	ND	0.029	0.003	U
7421-93-4	Endrin aldehyde	ND	0.029	0.006	U
53494-70-5	Endrin ketone	ND	0.029	0.003	U
60-57-1	Dieldrin	ND	0.029	0.003	U
72-55-9	4,4'-DDE	ND	0.029	0.003	U
72-54-8	4,4'-DDD	ND	0.029	0.003	U
50-29-3	4,4'-DDT	ND	0.029	0.003	U
959-98-8	Endosulfan I	ND	0.014	0.002	U
33213-65-9	Endosulfan II	ND	0.029	0.004	U
1031-07-8	Endosulfan sulfate	ND	0.029	0.003	U
72-43-5	Methoxychlor	ND	0.143	0.005	U
8001-35-2	Toxaphene	ND	0.143	0.045	U
5103-71-9	cis-Chlordane	ND	0.014	0.005	U
5103-74-2	trans-Chlordane	ND	0.014	0.004	U

Results Summary
Form 1
Organochlorine Pesticides by GC

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Lab ID	: L2434679-07	**Date Collected**	: 06/18/24 12:12
Client ID	: MW-7C	**Date Received**	: 06/19/24
Sample Location	: MANORVILLE, NY	**Date Analyzed**	: 06/24/24 20:09
Sample Matrix	: WATER	**Date Extracted**	: 06/23/24
Analytical Method	: 1,8081B	**Dilution Factor**	: 1
Lab File ID	: 10240624b-24	**Analyst**	: EMR
Sample Amount	: 140 ml	**Instrument ID**	: PEST10
Extraction Method	: EPA 3510C	**GC Column**	: CLPPesticides
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL
Sulfur Cleanup	: N		

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
57-74-9	Chlordane	ND	0.143	0.033	U

Results Summary
Form 1
Organochlorine Pesticides by GC

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Lab ID	: L2434679-08	**Date Collected**	: 06/18/24 16:47
Client ID	: MW-8A	**Date Received**	: 06/19/24
Sample Location	: MANORVILLE, NY	**Date Analyzed**	: 06/24/24 20:20
Sample Matrix	: WATER	**Date Extracted**	: 06/23/24
Analytical Method	: 1,8081B	**Dilution Factor**	: 1
Lab File ID	: 10240624b-25	**Analyst**	: EMR
Sample Amount	: 140 ml	**Instrument ID**	: PEST10
Extraction Method	: EPA 3510C	**GC Column**	: CLPPesticides
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL
Sulfur Cleanup	: N		

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
319-86-8	Delta-BHC	ND	0.014	0.003	U
58-89-9	Lindane	ND	0.014	0.003	U
319-84-6	Alpha-BHC	ND	0.014	0.003	U
319-85-7	Beta-BHC	ND	0.014	0.004	U
76-44-8	Heptachlor	ND	0.014	0.002	U
309-00-2	Aldrin	ND	0.014	0.002	U
1024-57-3	Heptachlor epoxide	ND	0.014	0.003	U
72-20-8	Endrin	ND	0.029	0.003	U
7421-93-4	Endrin aldehyde	ND	0.029	0.006	U
53494-70-5	Endrin ketone	ND	0.029	0.003	U
60-57-1	Dieldrin	ND	0.029	0.003	U
72-55-9	4,4'-DDE	ND	0.029	0.003	U
72-54-8	4,4'-DDD	ND	0.029	0.003	U
50-29-3	4,4'-DDT	ND	0.029	0.003	U
959-98-8	Endosulfan I	ND	0.014	0.002	U
33213-65-9	Endosulfan II	ND	0.029	0.004	U
1031-07-8	Endosulfan sulfate	ND	0.029	0.003	U
72-43-5	Methoxychlor	ND	0.143	0.005	U
8001-35-2	Toxaphene	ND	0.143	0.045	U
5103-71-9	cis-Chlordane	ND	0.014	0.005	U
5103-74-2	trans-Chlordane	ND	0.014	0.004	U

Results Summary
Form 1
Organochlorine Pesticides by GC

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Lab ID	: L2434679-08	**Date Collected**	: 06/18/24 16:47
Client ID	: MW-8A	**Date Received**	: 06/19/24
Sample Location	: MANORVILLE, NY	**Date Analyzed**	: 06/24/24 20:20
Sample Matrix	: WATER	**Date Extracted**	: 06/23/24
Analytical Method	: 1,8081B	**Dilution Factor**	: 1
Lab File ID	: 10240624b-25	**Analyst**	: EMR
Sample Amount	: 140 ml	**Instrument ID**	: PEST10
Extraction Method	: EPA 3510C	**GC Column**	: CLPPesticides
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL
Sulfur Cleanup	: N		

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
57-74-9	Chlordane	ND	0.143	0.033	U

Results Summary
Form 1
Organochlorine Pesticides by GC

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Lab ID	: L2434679-09	**Date Collected**	: 06/18/24 18:25
Client ID	: MW-8B	**Date Received**	: 06/19/24
Sample Location	: MANORVILLE, NY	**Date Analyzed**	: 06/24/24 20:31
Sample Matrix	: WATER	**Date Extracted**	: 06/23/24
Analytical Method	: 1,8081B	**Dilution Factor**	: 1
Lab File ID	: 10240624b-26	**Analyst**	: EMR
Sample Amount	: 140 ml	**Instrument ID**	: PEST10
Extraction Method	: EPA 3510C	**GC Column**	: CLPPesticides
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL
Sulfur Cleanup	: N		

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
319-86-8	Delta-BHC	ND	0.014	0.003	U
58-89-9	Lindane	ND	0.014	0.003	U
319-84-6	Alpha-BHC	ND	0.014	0.003	U
319-85-7	Beta-BHC	ND	0.014	0.004	U
76-44-8	Heptachlor	ND	0.014	0.002	U
309-00-2	Aldrin	ND	0.014	0.002	U
1024-57-3	Heptachlor epoxide	ND	0.014	0.003	U
72-20-8	Endrin	ND	0.029	0.003	U
7421-93-4	Endrin aldehyde	ND	0.029	0.006	U
53494-70-5	Endrin ketone	ND	0.029	0.003	U
60-57-1	Dieldrin	ND	0.029	0.003	U
72-55-9	4,4'-DDE	ND	0.029	0.003	U
72-54-8	4,4'-DDD	ND	0.029	0.003	U
50-29-3	4,4'-DDT	ND	0.029	0.003	U
959-98-8	Endosulfan I	ND	0.014	0.002	U
33213-65-9	Endosulfan II	ND	0.029	0.004	U
1031-07-8	Endosulfan sulfate	ND	0.029	0.003	U
72-43-5	Methoxychlor	ND	0.143	0.005	U
8001-35-2	Toxaphene	ND	0.143	0.045	U
5103-71-9	cis-Chlordane	ND	0.014	0.005	U
5103-74-2	trans-Chlordane	ND	0.014	0.004	U

Results Summary
Form 1
Organochlorine Pesticides by GC

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Lab ID	: L2434679-09	**Date Collected**	: 06/18/24 18:25
Client ID	: MW-8B	**Date Received**	: 06/19/24
Sample Location	: MANORVILLE, NY	**Date Analyzed**	: 06/24/24 20:31
Sample Matrix	: WATER	**Date Extracted**	: 06/23/24
Analytical Method	: 1,8081B	**Dilution Factor**	: 1
Lab File ID	: 10240624b-26	**Analyst**	: EMR
Sample Amount	: 140 ml	**Instrument ID**	: PEST10
Extraction Method	: EPA 3510C	**GC Column**	: CLPPesticides
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL
Sulfur Cleanup	: N		

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
57-74-9	Chlordane	ND	0.143	0.033	U

Results Summary
Form 1
Organochlorine Pesticides by GC

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Lab ID	: L2434679-10	**Date Collected**	: 06/19/24 11:00
Client ID	: MW-9B	**Date Received**	: 06/19/24
Sample Location	: MANORVILLE, NY	**Date Analyzed**	: 06/24/24 20:42
Sample Matrix	: WATER	**Date Extracted**	: 06/23/24
Analytical Method	: 1,8081B	**Dilution Factor**	: 1
Lab File ID	: 10240624b-27	**Analyst**	: EMR
Sample Amount	: 140 ml	**Instrument ID**	: PEST10
Extraction Method	: EPA 3510C	**GC Column**	: CLPPesticides
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL
Sulfur Cleanup	: N		

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
319-86-8	Delta-BHC	ND	0.014	0.003	U
58-89-9	Lindane	ND	0.014	0.003	U
319-84-6	Alpha-BHC	ND	0.014	0.003	U
319-85-7	Beta-BHC	ND	0.014	0.004	U
76-44-8	Heptachlor	ND	0.014	0.002	U
309-00-2	Aldrin	ND	0.014	0.002	U
1024-57-3	Heptachlor epoxide	ND	0.014	0.003	U
72-20-8	Endrin	ND	0.029	0.003	U
7421-93-4	Endrin aldehyde	ND	0.029	0.006	U
53494-70-5	Endrin ketone	ND	0.029	0.003	U
60-57-1	Dieldrin	ND	0.029	0.003	U
72-55-9	4,4'-DDE	ND	0.029	0.003	U
72-54-8	4,4'-DDD	ND	0.029	0.003	U
50-29-3	4,4'-DDT	ND	0.029	0.003	U
959-98-8	Endosulfan I	ND	0.014	0.002	U
33213-65-9	Endosulfan II	ND	0.029	0.004	U
1031-07-8	Endosulfan sulfate	ND	0.029	0.003	U
72-43-5	Methoxychlor	ND	0.143	0.005	U
8001-35-2	Toxaphene	ND	0.143	0.045	U
5103-71-9	cis-Chlordane	ND	0.014	0.005	U
5103-74-2	trans-Chlordane	ND	0.014	0.004	U

Results Summary
Form 1
Organochlorine Pesticides by GC

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Lab ID	: L2434679-10	**Date Collected**	: 06/19/24 11:00
Client ID	: MW-9B	**Date Received**	: 06/19/24
Sample Location	: MANORVILLE, NY	**Date Analyzed**	: 06/24/24 20:42
Sample Matrix	: WATER	**Date Extracted**	: 06/23/24
Analytical Method	: 1,8081B	**Dilution Factor**	: 1
Lab File ID	: 10240624b-27	**Analyst**	: EMR
Sample Amount	: 140 ml	**Instrument ID**	: PEST10
Extraction Method	: EPA 3510C	**GC Column**	: CLPPesticides
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL
Sulfur Cleanup	: N		

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
57-74-9	Chlordane	ND	0.143	0.033	U

Results Summary
Form 1
Organochlorine Pesticides by GC

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Lab ID	: L2434679-11	**Date Collected**	: 06/18/24 00:00
Client ID	: DUP	**Date Received**	: 06/19/24
Sample Location	: MANORVILLE, NY	**Date Analyzed**	: 06/24/24 20:53
Sample Matrix	: WATER	**Date Extracted**	: 06/23/24
Analytical Method	: 1,8081B	**Dilution Factor**	: 1
Lab File ID	: 10240624b-28	**Analyst**	: EMR
Sample Amount	: 140 ml	**Instrument ID**	: PEST10
Extraction Method	: EPA 3510C	**GC Column**	: CLPPesticides
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL
Sulfur Cleanup	: N		

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
319-86-8	Delta-BHC	ND	0.014	0.003	U
58-89-9	Lindane	ND	0.014	0.003	U
319-84-6	Alpha-BHC	ND	0.014	0.003	U
319-85-7	Beta-BHC	ND	0.014	0.004	U
76-44-8	Heptachlor	ND	0.014	0.002	U
309-00-2	Aldrin	ND	0.014	0.002	U
1024-57-3	Heptachlor epoxide	ND	0.014	0.003	U
72-20-8	Endrin	ND	0.029	0.003	U
7421-93-4	Endrin aldehyde	ND	0.029	0.006	U
53494-70-5	Endrin ketone	ND	0.029	0.003	U
60-57-1	Dieldrin	ND	0.029	0.003	U
72-55-9	4,4'-DDE	ND	0.029	0.003	U
72-54-8	4,4'-DDD	ND	0.029	0.003	U
50-29-3	4,4'-DDT	ND	0.029	0.003	U
959-98-8	Endosulfan I	ND	0.014	0.002	U
33213-65-9	Endosulfan II	ND	0.029	0.004	U
1031-07-8	Endosulfan sulfate	ND	0.029	0.003	U
72-43-5	Methoxychlor	ND	0.143	0.005	U
8001-35-2	Toxaphene	ND	0.143	0.045	U
5103-71-9	cis-Chlordane	ND	0.014	0.005	U
5103-74-2	trans-Chlordane	ND	0.014	0.004	U

Results Summary
Form 1
Organochlorine Pesticides by GC

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Lab ID	: L2434679-11	**Date Collected**	: 06/18/24 00:00
Client ID	: DUP	**Date Received**	: 06/19/24
Sample Location	: MANORVILLE, NY	**Date Analyzed**	: 06/24/24 20:53
Sample Matrix	: WATER	**Date Extracted**	: 06/23/24
Analytical Method	: 1,8081B	**Dilution Factor**	: 1
Lab File ID	: 10240624b-28	**Analyst**	: EMR
Sample Amount	: 140 ml	**Instrument ID**	: PEST10
Extraction Method	: EPA 3510C	**GC Column**	: CLPPesticides
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL
Sulfur Cleanup	: N		

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
57-74-9	Chlordane	ND	0.143	0.033	U

Results Summary
Form 1
Organochlorine Pesticides by GC

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Lab ID	: L2434679-12	**Date Collected**	: 06/18/24 19:00
Client ID	: EB	**Date Received**	: 06/19/24
Sample Location	: MANORVILLE, NY	**Date Analyzed**	: 06/24/24 21:04
Sample Matrix	: WATER	**Date Extracted**	: 06/23/24
Analytical Method	: 1,8081B	**Dilution Factor**	: 1
Lab File ID	: 10240624b-29	**Analyst**	: EMR
Sample Amount	: 140 ml	**Instrument ID**	: PEST10
Extraction Method	: EPA 3510C	**GC Column**	: CLPPesticides
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL
Sulfur Cleanup	: N		

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
319-86-8	Delta-BHC	ND	0.014	0.003	U
58-89-9	Lindane	ND	0.014	0.003	U
319-84-6	Alpha-BHC	ND	0.014	0.003	U
319-85-7	Beta-BHC	ND	0.014	0.004	U
76-44-8	Heptachlor	ND	0.014	0.002	U
309-00-2	Aldrin	ND	0.014	0.002	U
1024-57-3	Heptachlor epoxide	ND	0.014	0.003	U
72-20-8	Endrin	ND	0.029	0.003	U
7421-93-4	Endrin aldehyde	ND	0.029	0.006	U
53494-70-5	Endrin ketone	ND	0.029	0.003	U
60-57-1	Dieldrin	ND	0.029	0.003	U
72-55-9	4,4'-DDE	ND	0.029	0.003	U
72-54-8	4,4'-DDD	ND	0.029	0.003	U
50-29-3	4,4'-DDT	ND	0.029	0.003	U
959-98-8	Endosulfan I	ND	0.014	0.002	U
33213-65-9	Endosulfan II	ND	0.029	0.004	U
1031-07-8	Endosulfan sulfate	ND	0.029	0.003	U
72-43-5	Methoxychlor	ND	0.143	0.005	U
8001-35-2	Toxaphene	ND	0.143	0.045	U
5103-71-9	cis-Chlordane	ND	0.014	0.005	U
5103-74-2	trans-Chlordane	ND	0.014	0.004	U

Results Summary
Form 1
Organochlorine Pesticides by GC

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Lab ID	: L2434679-12	**Date Collected**	: 06/18/24 19:00
Client ID	: EB	**Date Received**	: 06/19/24
Sample Location	: MANORVILLE, NY	**Date Analyzed**	: 06/24/24 21:04
Sample Matrix	: WATER	**Date Extracted**	: 06/23/24
Analytical Method	: 1,8081B	**Dilution Factor**	: 1
Lab File ID	: 10240624b-29	**Analyst**	: EMR
Sample Amount	: 140 ml	**Instrument ID**	: PEST10
Extraction Method	: EPA 3510C	**GC Column**	: CLPPesticides
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL
Sulfur Cleanup	: N		

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
57-74-9	Chlordane	ND	0.143	0.033	U

Results Summary
Form 1
Organochlorine Pesticides by GC

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Lab ID	: L2434679-14	**Date Collected**	: 06/18/24 18:07
Client ID	: MW-8B2	**Date Received**	: 06/19/24
Sample Location	: MANORVILLE, NY	**Date Analyzed**	: 06/24/24 21:16
Sample Matrix	: WATER	**Date Extracted**	: 06/23/24
Analytical Method	: 1,8081B	**Dilution Factor**	: 1
Lab File ID	: 10240624b-30	**Analyst**	: EMR
Sample Amount	: 140 ml	**Instrument ID**	: PEST10
Extraction Method	: EPA 3510C	**GC Column**	: CLPPesticides
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL
Sulfur Cleanup	: N		

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
319-86-8	Delta-BHC	ND	0.014	0.003	U
58-89-9	Lindane	ND	0.014	0.003	U
319-84-6	Alpha-BHC	ND	0.014	0.003	U
319-85-7	Beta-BHC	ND	0.014	0.004	U
76-44-8	Heptachlor	ND	0.014	0.002	U
309-00-2	Aldrin	ND	0.014	0.002	U
1024-57-3	Heptachlor epoxide	ND	0.014	0.003	U
72-20-8	Endrin	ND	0.029	0.003	U
7421-93-4	Endrin aldehyde	ND	0.029	0.006	U
53494-70-5	Endrin ketone	ND	0.029	0.003	U
60-57-1	Dieldrin	ND	0.029	0.003	U
72-55-9	4,4'-DDE	ND	0.029	0.003	U
72-54-8	4,4'-DDD	ND	0.029	0.003	U
50-29-3	4,4'-DDT	ND	0.029	0.003	U
959-98-8	Endosulfan I	ND	0.014	0.002	U
33213-65-9	Endosulfan II	ND	0.029	0.004	U
1031-07-8	Endosulfan sulfate	ND	0.029	0.003	U
72-43-5	Methoxychlor	ND	0.143	0.005	U
8001-35-2	Toxaphene	ND	0.143	0.045	U
5103-71-9	cis-Chlordane	ND	0.014	0.005	U
5103-74-2	trans-Chlordane	ND	0.014	0.004	U

Results Summary
Form 1
Organochlorine Pesticides by GC

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Lab ID	: L2434679-14	**Date Collected**	: 06/18/24 18:07
Client ID	: MW-8B2	**Date Received**	: 06/19/24
Sample Location	: MANORVILLE, NY	**Date Analyzed**	: 06/24/24 21:16
Sample Matrix	: WATER	**Date Extracted**	: 06/23/24
Analytical Method	: 1,8081B	**Dilution Factor**	: 1
Lab File ID	: 10240624b-30	**Analyst**	: EMR
Sample Amount	: 140 ml	**Instrument ID**	: PEST10
Extraction Method	: EPA 3510C	**GC Column**	: CLPPesticides
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL
Sulfur Cleanup	: N		

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
57-74-9	Chlordane	ND	0.143	0.033	U

Results Summary
Form 1
Organochlorine Pesticides by GC

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Lab ID	: WG1938134-1	**Date Collected**	: NA
Client ID	: WG1938134-1BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 06/24/24 18:08
Sample Matrix	: WATER	**Date Extracted**	: 06/23/24
Analytical Method	: 1,8081B	**Dilution Factor**	: 1
Lab File ID	: 10240624b-13	**Analyst**	: EMR
Sample Amount	: 140 ml	**Instrument ID**	: PEST10
Extraction Method	: EPA 3510C	**GC Column**	: CLPPesticides
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL
Sulfur Cleanup	: N		

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
319-86-8	Delta-BHC	ND	0.014	0.003	U
58-89-9	Lindane	ND	0.014	0.003	U
319-84-6	Alpha-BHC	ND	0.014	0.003	U
319-85-7	Beta-BHC	ND	0.014	0.004	U
76-44-8	Heptachlor	ND	0.014	0.002	U
309-00-2	Aldrin	ND	0.014	0.002	U
1024-57-3	Heptachlor epoxide	ND	0.014	0.003	U
72-20-8	Endrin	ND	0.029	0.003	U
7421-93-4	Endrin aldehyde	ND	0.029	0.006	U
53494-70-5	Endrin ketone	ND	0.029	0.003	U
60-57-1	Dieldrin	ND	0.029	0.003	U
72-55-9	4,4'-DDE	ND	0.029	0.003	U
72-54-8	4,4'-DDD	ND	0.029	0.003	U
50-29-3	4,4'-DDT	ND	0.029	0.003	U
959-98-8	Endosulfan I	ND	0.014	0.002	U
33213-65-9	Endosulfan II	ND	0.029	0.004	U
1031-07-8	Endosulfan sulfate	ND	0.029	0.003	U
72-43-5	Methoxychlor	ND	0.143	0.005	U
8001-35-2	Toxaphene	ND	0.143	0.045	U
5103-71-9	cis-Chlordane	ND	0.014	0.005	U
5103-74-2	trans-Chlordane	ND	0.014	0.004	U

Results Summary
Form 1
Organochlorine Pesticides by GC

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Lab ID	: WG1938134-1	**Date Collected**	: NA
Client ID	: WG1938134-1BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 06/24/24 18:08
Sample Matrix	: WATER	**Date Extracted**	: 06/23/24
Analytical Method	: 1,8081B	**Dilution Factor**	: 1
Lab File ID	: 10240624b-13	**Analyst**	: EMR
Sample Amount	: 140 ml	**Instrument ID**	: PEST10
Extraction Method	: EPA 3510C	**GC Column**	: CLPPesticides
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL
Sulfur Cleanup	: N		

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
57-74-9	Chlordane	ND	0.143	0.033	U

Results Summary
Form 1
Organochlorine Pesticides by GC

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Lab ID	: WG1939408-1	**Date Collected**	: NA
Client ID	: WG1939408-1BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 06/26/24 20:18
Sample Matrix	: WATER	**Date Extracted**	: 06/26/24
Analytical Method	: 1,8081B	**Dilution Factor**	: 1
Lab File ID	: 10240626b-18	**Analyst**	: PEG
Sample Amount	: 140 ml	**Instrument ID**	: PEST10
Extraction Method	: EPA 3510C	**GC Column**	: CLPPesticides
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL
Sulfur Cleanup	: N		

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
319-86-8	Delta-BHC	ND	0.014	0.003	U
58-89-9	Lindane	ND	0.014	0.003	U
319-84-6	Alpha-BHC	ND	0.014	0.003	U
319-85-7	Beta-BHC	ND	0.014	0.004	U
76-44-8	Heptachlor	ND	0.014	0.002	U
309-00-2	Aldrin	ND	0.014	0.002	U
1024-57-3	Heptachlor epoxide	ND	0.014	0.003	U
72-20-8	Endrin	ND	0.029	0.003	U
7421-93-4	Endrin aldehyde	ND	0.029	0.006	U
53494-70-5	Endrin ketone	ND	0.029	0.003	U
60-57-1	Dieldrin	ND	0.029	0.003	U
72-55-9	4,4'-DDE	ND	0.029	0.003	U
72-54-8	4,4'-DDD	ND	0.029	0.003	U
50-29-3	4,4'-DDT	ND	0.029	0.003	U
959-98-8	Endosulfan I	ND	0.014	0.002	U
33213-65-9	Endosulfan II	ND	0.029	0.004	U
1031-07-8	Endosulfan sulfate	ND	0.029	0.003	U
72-43-5	Methoxychlor	ND	0.143	0.005	U
8001-35-2	Toxaphene	ND	0.143	0.045	U
5103-71-9	cis-Chlordane	ND	0.014	0.005	U
5103-74-2	trans-Chlordane	ND	0.014	0.004	U

Results Summary
Form 1
Organochlorine Pesticides by GC

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Lab ID	: WG1939408-1	**Date Collected**	: NA
Client ID	: WG1939408-1BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 06/26/24 20:18
Sample Matrix	: WATER	**Date Extracted**	: 06/26/24
Analytical Method	: 1,8081B	**Dilution Factor**	: 1
Lab File ID	: 10240626b-18	**Analyst**	: PEG
Sample Amount	: 140 ml	**Instrument ID**	: PEST10
Extraction Method	: EPA 3510C	**GC Column**	: CLPPesticides
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL
Sulfur Cleanup	: N		

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
57-74-9	Chlordane	ND	0.143	0.033	U

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest10\2024\240624B\
Data File : 10240624b-17.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 24 Jun 2024 18:52
Operator : PEST10:emr
Sample : L2434679-02,42,,
Misc : wg1938709,WG1938134,ical21109
ALS Vial : 17 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 25 08:58:01 2024
Quant Method : I:\PEST\Pest10\2024\240624B\pest10_2024_05_02_ugL_ical21109.m
Quant Title : pest
QLast Update : Mon Jun 24 18:30:48 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PEST\Pest10\2024\240624B\10240624b-03.d
Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Internal Standards							
1) i	1-br-2-nb_Pe	1.252	1.367	532.8E6	153.1E6	25.000	25.000M4
	Standard Area 1 : #1 = 521435419				Recovery = 102.18%		
	Standard Area 1 : #2 = 149552544				Recovery = 102.38%		
28) i	1-br-2-nb_Ch	1.252	1.367	532.8E6	153.1E6	25.000	25.000M4
33) i	1-br-2-nb_To	1.252	1.367	532.8E6	153.1E6	25.000	25.000M4
System Monitoring Compounds							
2) s	2,4,5,6-Tetr	1.588	1.847	750.3E6	206.4E6	32.442M4	35.854M4
	Spiked Amount 50.000	Range 30 - 150			Recovery = 64.88%		71.71%
27) s	Decachlorobi	6.220	6.931	738.3E6	182.8E6	42.739M4	41.165
	Spiked Amount 50.000	Range 30 - 150			Recovery = 85.48%		82.33%
Target Compounds							
4) t	alpha-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5) t	gamma-BHC (l	0.000	0.000	0	0	N.D. d	N.D. d
6) t	beta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7) t	delta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
8) t	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
9) t	Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
12) t	Heptachlor E	0.000	0.000	0	0	N.D. d	N.D. d
13) t	gamma-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
14) t	alpha-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
15) t	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
16) t	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
17) t	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest10\2024\240624B\
Data File : 10240624b-17.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 24 Jun 2024 18:52
Operator : PEST10:emr
Sample : L2434679-02,42,,
Misc : wg1938709,WG1938134,ical21109
ALS Vial : 17 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 25 08:58:01 2024
Quant Method : I:\PEST\Pest10\2024\240624B\pest10_2024_05_02_ugL_ical21109.m
Quant Title : pest
QLast Update : Mon Jun 24 18:30:48 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PEST\Pest10\2024\240624B\10240624b-03.d
Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
18) t	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
19) t	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
20) t	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
21) t	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
22) t	Endrin Aldeh	0.000	0.000	0	0	N.D. d	N.D. d
23) t	Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d
25) t	Endosulfan S	0.000	0.000	0	0	N.D. d	N.D. d
26) t	Endrin Keton	0.000	0.000	0	0	N.D. d	N.D. d
29) l1	chlordane-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l1	chlordane-3	0.000	0.000	0	0	N.D. d	N.D. d
31) l1	chlordane-4	0.000	0.000	0	0	N.D. d	N.D. d
32) l1	chlordane-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	chlordane-1			0	0	N.D.	N.D.
Average	chlordane-1					0.000	0.000
34) l2	toxaphene-1	0.000	0.000	0	0	N.D. d	N.D. d
35) l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
36) l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
37) l2	toxaphene-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000
SemiQuant Compounds - Not Calibrated on this Instrument							
Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

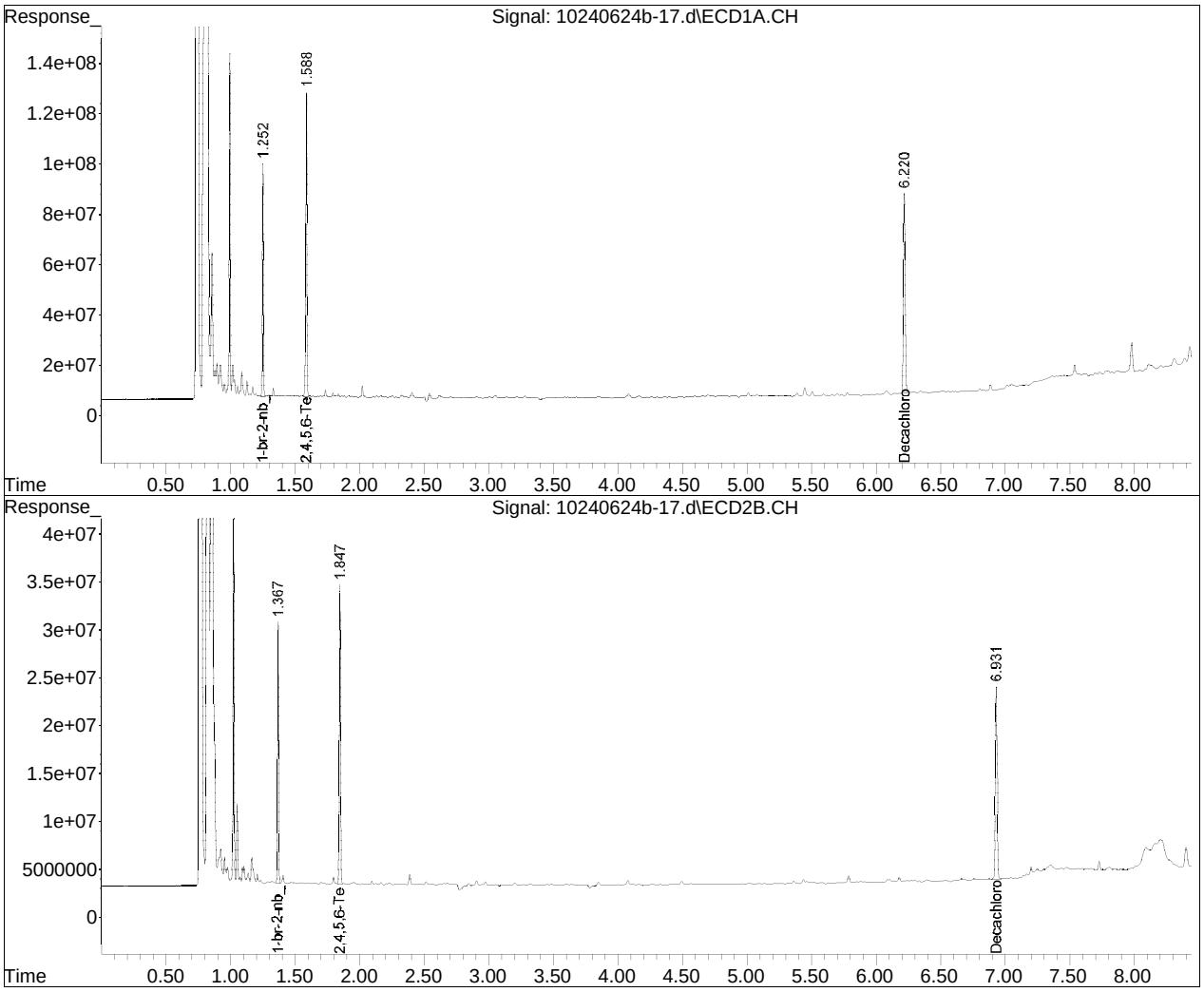
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listedB\10240624b-03.d•

Data Path : I:\PEST\Pest10\2024\240624B\
Data File : 10240624b-17.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 24 Jun 2024 18:52
Operator : PEST10:emr
Sample : L2434679-02,42,,
Misc : wg1938709,WG1938134,ical21109
ALS Vial : 17 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 25 08:58:01 2024
Quant Method : I:\PEST\Pest10\2024\240624B\pest10_2024_05_02_ugL_ical21109.m
Quant Title : pest
QLast Update : Mon Jun 24 18:30:48 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

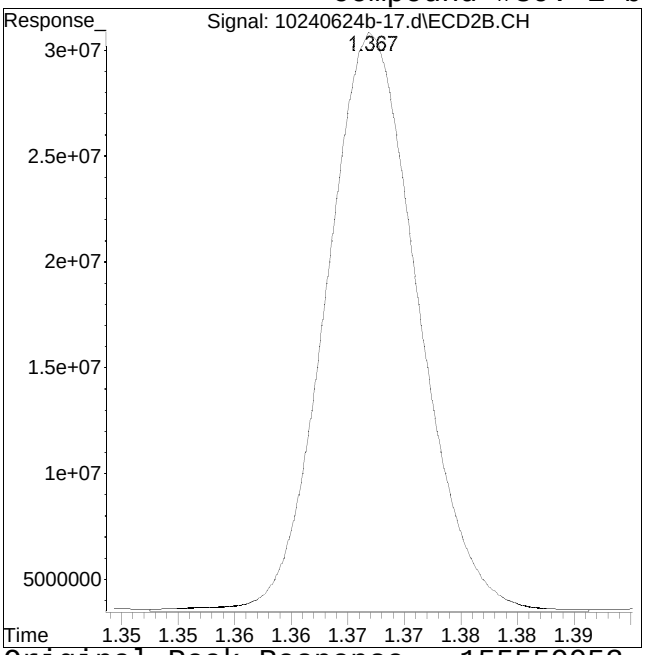
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



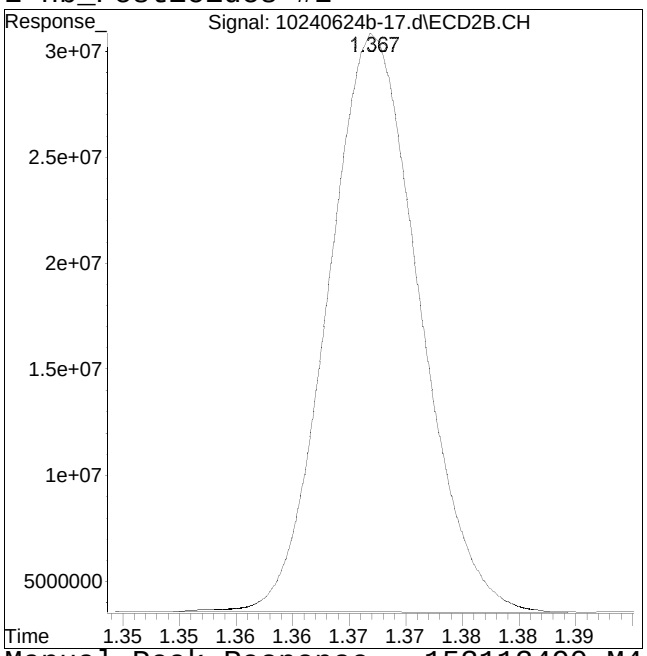
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240624QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240624b-17.d Operator : PEST10:emr
Date Inj'd : 6/24/2024 18:52 Instrument : Pest 10
Sample : L2434679-02,42,, Quant Date : 6/25/2024 8:58 am

Compound #39: 1-br-2-nb_Pesticides #2



Original Peak Response = 155559953



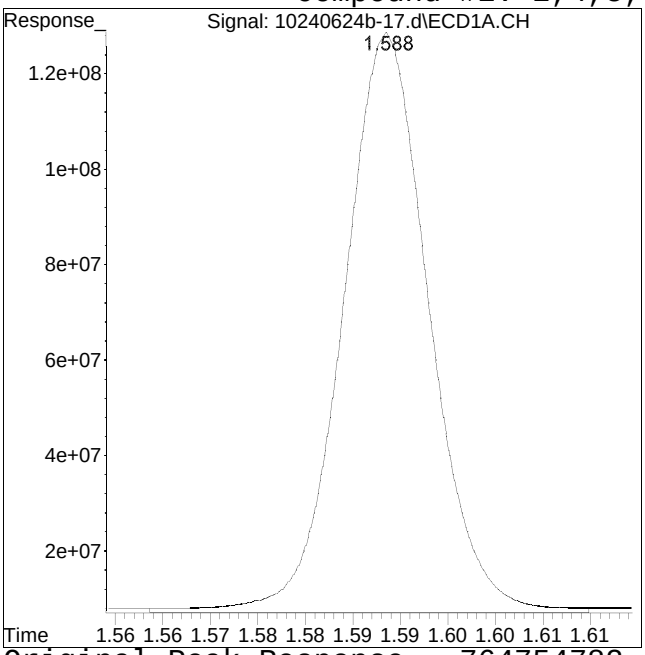
Manual Peak Response = 153113490 M4

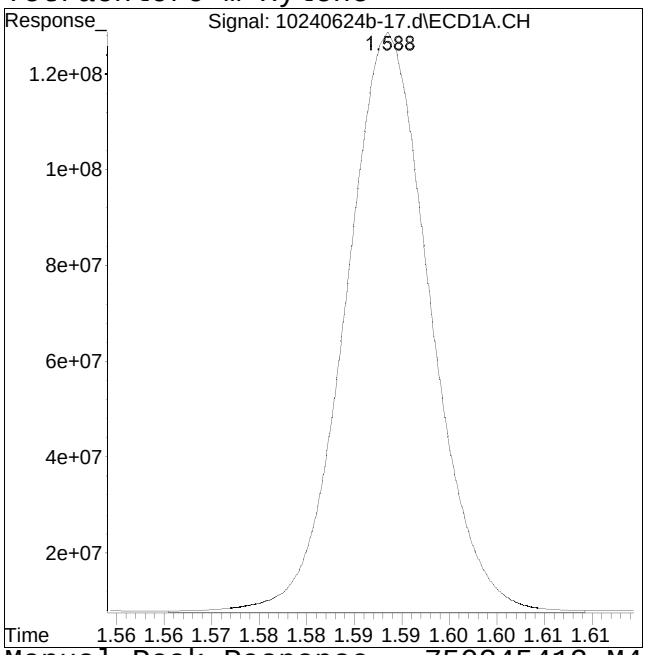
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240624QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240624b-17.d Operator : PEST10:emr
Date Inj'd : 6/24/2024 18:52 Instrument : Pest 10
Sample : L2434679-02,42,, Quant Date : 6/25/2024 8:58 am

Compound #2: 2,4,5,6-Tetrachloro-m-xylene



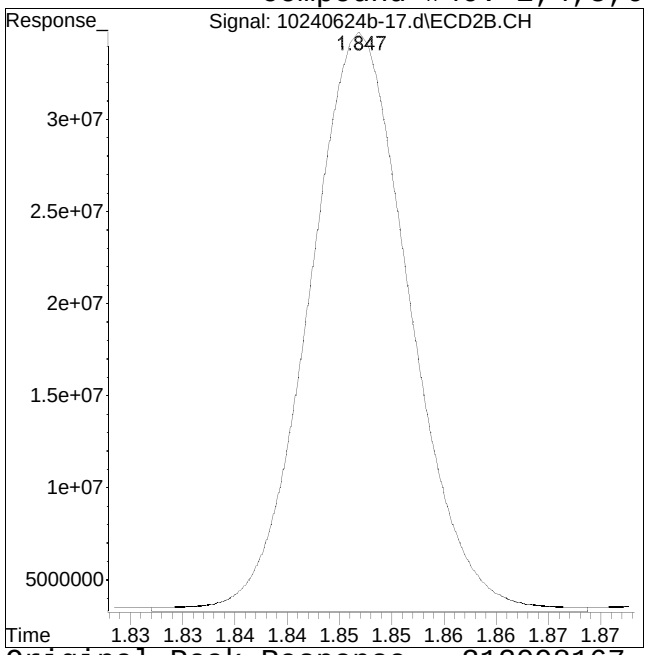


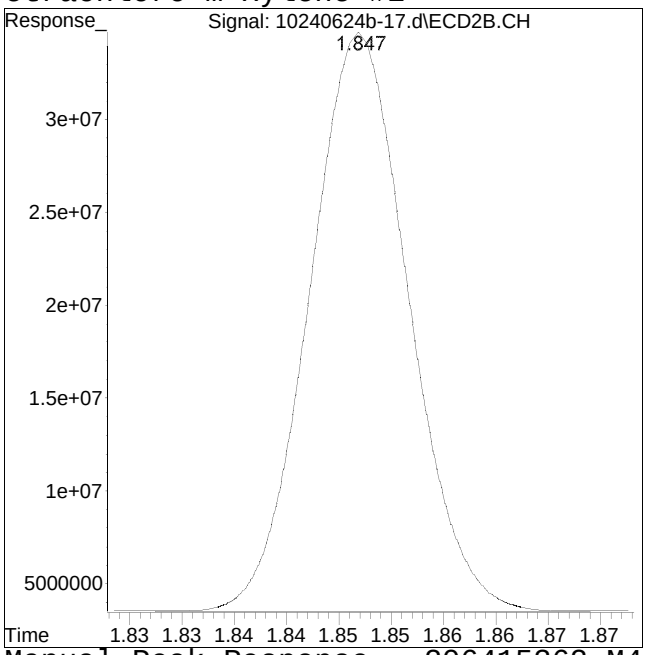
Original Peak Response = 764754782 Manual Peak Response = 750345412 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240624QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240624b-17.d Operator : PEST10:emr
Date Inj'd : 6/24/2024 18:52 Instrument : Pest 10
Sample : L2434679-02,42,, Quant Date : 6/25/2024 8:58 am

Compound #40: 2,4,5,6-Tetrachloro-m-xylene #2



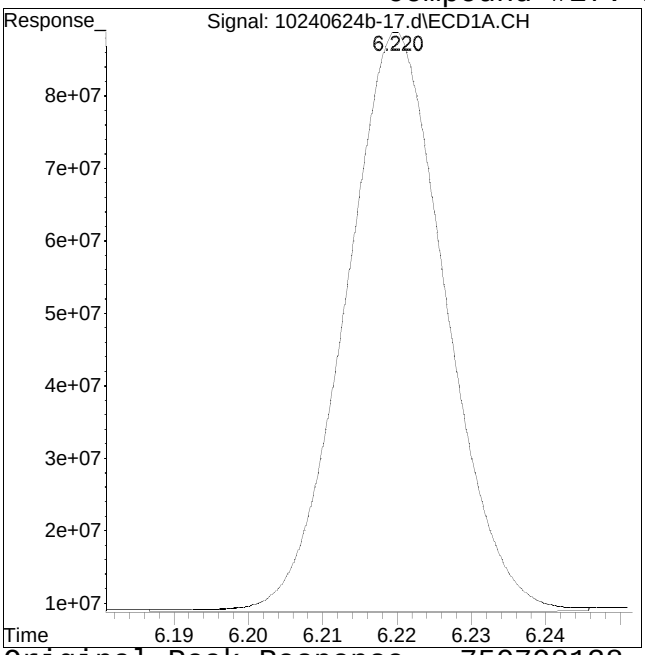


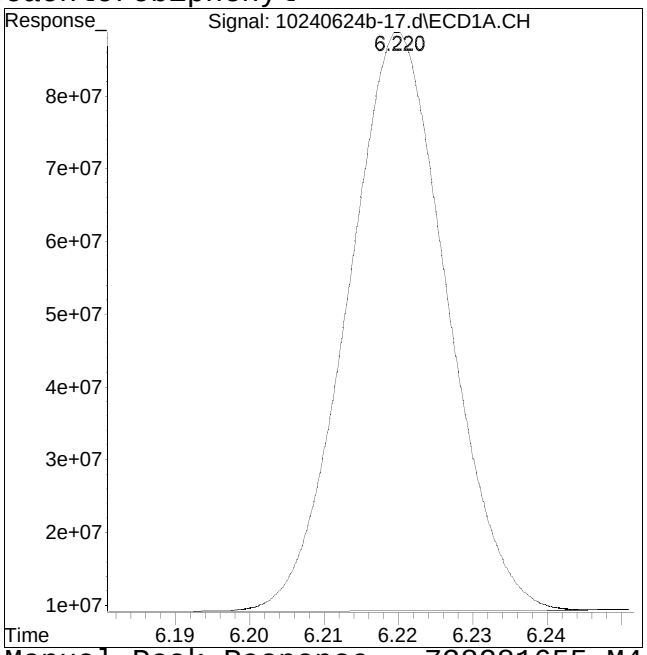
Original Peak Response = 212098167 Manual Peak Response = 206415362 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240624QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240624b-17.d Operator : PEST10:emr
Date Inj'd : 6/24/2024 18:52 Instrument : Pest 10
Sample : L2434679-02,42,, Quant Date : 6/25/2024 8:58 am

Compound #27: Decachlorobiphenyl



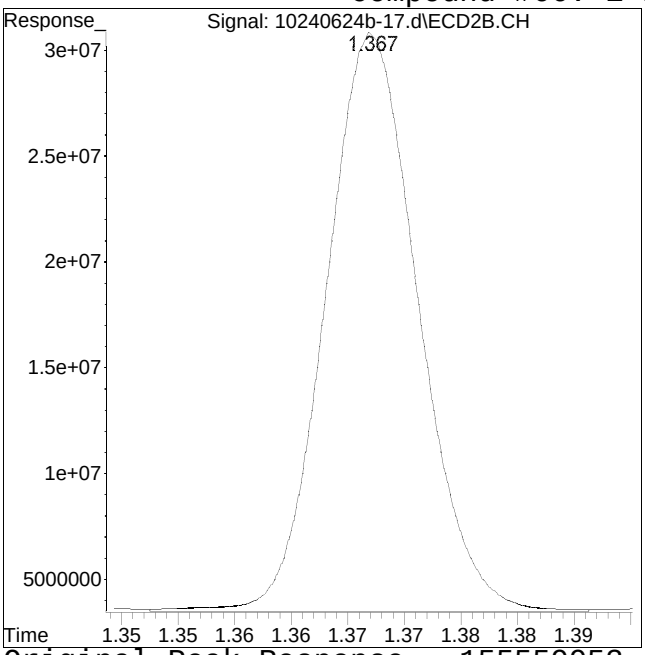


Original Peak Response = 750798138 Manual Peak Response = 738281655 M4
M4 = Poor automated baseline construction.

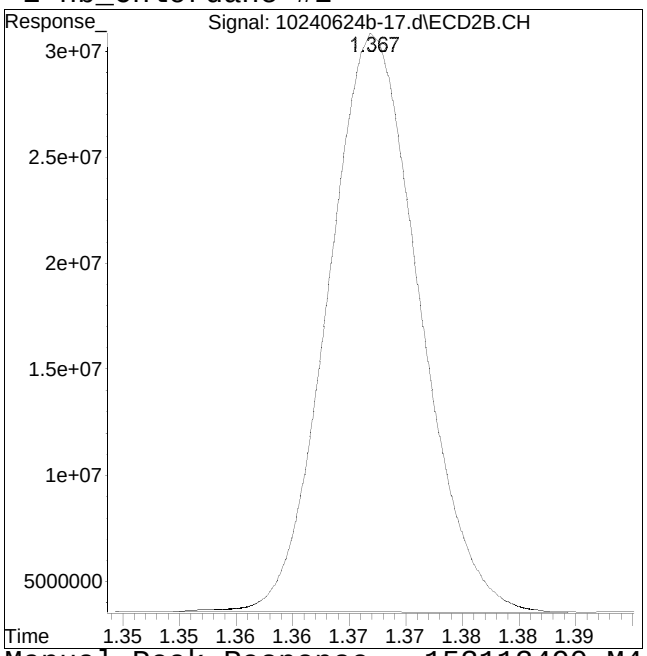
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240624QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240624b-17.d Operator : PEST10:emr
Date Inj'd : 6/24/2024 18:52 Instrument : Pest 10
Sample : L2434679-02,42,, Quant Date : 6/25/2024 8:58 am

Compound #66: 1-br-2-nb_Chlordane #2



Original Peak Response = 155559953



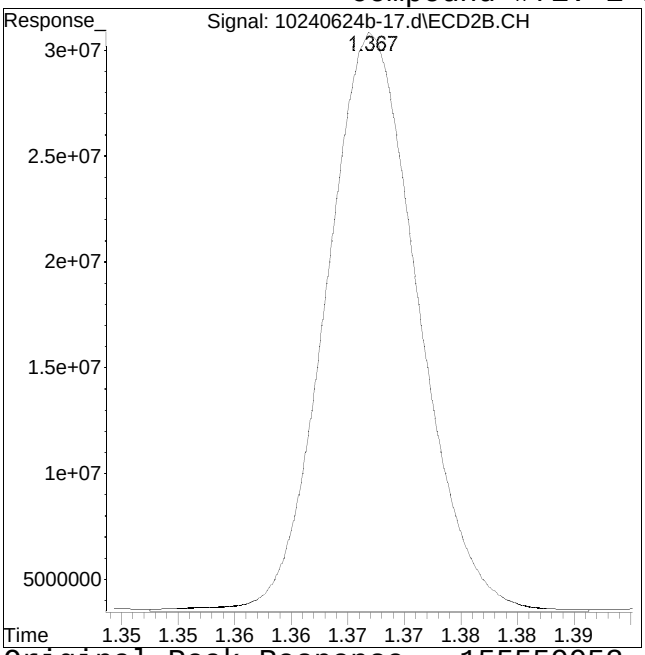
Manual Peak Response = 153113490 M4

M4 = Poor automated baseline construction.

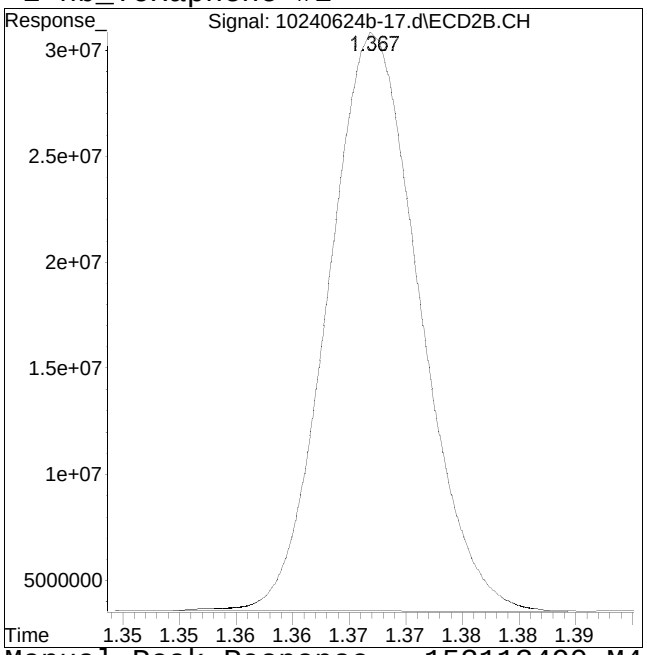
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240624QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240624b-17.d Operator : PEST10:emr
Date Inj'd : 6/24/2024 18:52 Instrument : Pest 10
Sample : L2434679-02,42,, Quant Date : 6/25/2024 8:58 am

Compound #71: 1-br-2-nb_Toxaphene #2



Original Peak Response = 155559953



Manual Peak Response = 153113490 M4

M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest10\2024\240624B\
Data File : 10240624b-18.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 24 Jun 2024 19:03
Operator : PEST10:emr
Sample : L2434679-03,42,, p
Misc : wg1938709,WG1938134,ical21109
ALS Vial : 18 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 25 08:58:04 2024
Quant Method : I:\PEST\Pest10\2024\240624B\pest10_2024_05_02_ugL_ical21109.m
Quant Title : pest
QLast Update : Mon Jun 24 18:30:48 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PEST\Pest10\2024\240624B\10240624b-03.d
Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Internal Standards							
1) i	1-br-2-nb_Pe	1.253	1.367	530.2E6	155.9E6	25.000	25.000
	Standard Area 1 : #1 = 521435419				Recovery =	101.68%	
	Standard Area 1 : #2 = 149552544				Recovery =	104.22%	
28) i	1-br-2-nb_Ch	1.253	1.367	530.2E6	155.9E6	25.000	25.000
33) i	1-br-2-nb_To	1.253	1.367	530.2E6	155.9E6	25.000	25.000
System Monitoring Compounds							
2) s	2,4,5,6-Tetr	1.590	1.847	771.1E6	215.3E6	33.504M4	36.732M4
	Spiked Amount 50.000	Range 30 - 150			Recovery =	67.01%	73.46%
27) s	Decachlorobi	6.221	6.931	775.6E6	188.5E6	45.174M4	41.698M4
	Spiked Amount 50.000	Range 30 - 150			Recovery =	90.35%	83.40%
Target Compounds							
4) t	alpha-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5) t	gamma-BHC (l	0.000	0.000	0	0	N.D. d	N.D. d
6) t	beta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7) t	delta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
8) t	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
9) t	Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
12) t	Heptachlor E	0.000	0.000	0	0	N.D. d	N.D. d
13) t	gamma-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
14) t	alpha-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
15) t	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
16) t	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
17) t	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
18) t	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
19) t	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
20) t	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\PEST\Pest10\2024\240624B\
Data File : 10240624b-18.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 24 Jun 2024 19:03
Operator : PEST10:emr
Sample : L2434679-03,42,, p
Misc : wg1938709,WG1938134,ical21109
ALS Vial : 18 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 25 08:58:04 2024
Quant Method : I:\PEST\Pest10\2024\240624B\pest10_2024_05_02_ugL_ical21109.m
Quant Title : pest
QLast Update : Mon Jun 24 18:30:48 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PEST\Pest10\2024\240624B\10240624b-03.d
Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
21) t 4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
22) t Endrin Aldeh	0.000	0.000	0	0	N.D. d	N.D. d
23) t Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d
25) t Endosulfan S	0.000	0.000	0	0	N.D. d	N.D. d
26) t Endrin Keton	0.000	0.000	0	0	N.D. d	N.D. d
29) l1 chlordane-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l1 chlordane-3	0.000	0.000	0	0	N.D. d	N.D. d
31) l1 chlordane-4	0.000	0.000	0	0	N.D. d	N.D. d
32) l1 chlordane-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum chlordane-1			0	0	N.D.	N.D.
Average chlordane-1					0.000	0.000
34) l2 toxaphene-1	0.000	0.000	0	0	N.D. d	N.D. d
35) l2 toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
36) l2 toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
37) l2 toxaphene-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum toxaphene-1			0	0	N.D.	N.D.
Average toxaphene-1					0.000	0.000
SemiQuant Compounds - Not Calibrated on this Instrument						
Sum toxaphene-1			0	0	N.D.	N.D.
Average toxaphene-1					0.000	0.000

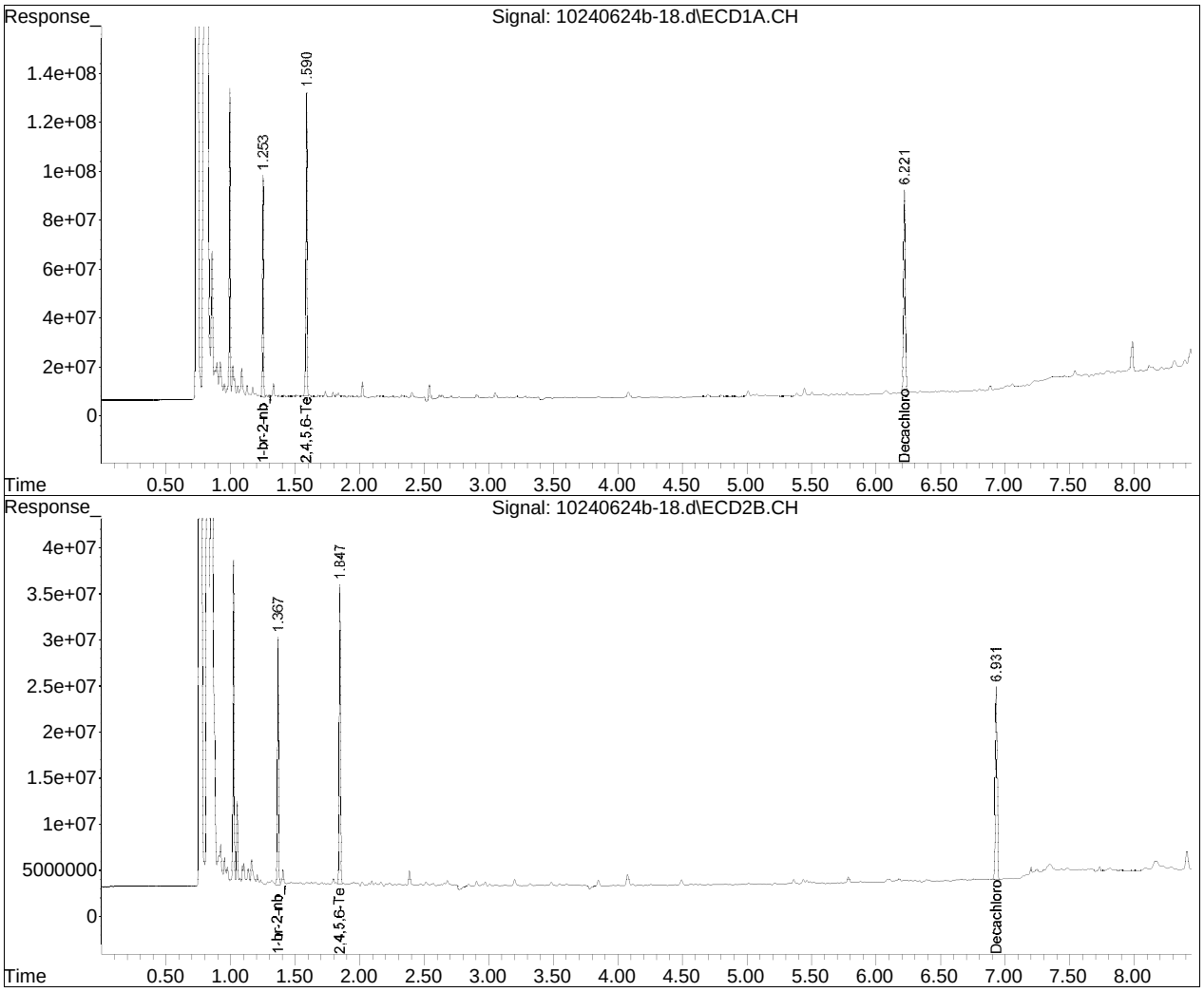
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listedB\10240624b-03.d•

Data Path : I:\PEST\Pest10\2024\240624B\
Data File : 10240624b-18.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 24 Jun 2024 19:03
Operator : PEST10:emr
Sample : L2434679-03,42,, p
Misc : wg1938709,WG1938134,ical21109
ALS Vial : 18 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 25 08:58:04 2024
Quant Method : I:\PEST\Pest10\2024\240624B\pest10_2024_05_02_ugL_ical21109.m
Quant Title : pest
QLast Update : Mon Jun 24 18:30:48 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

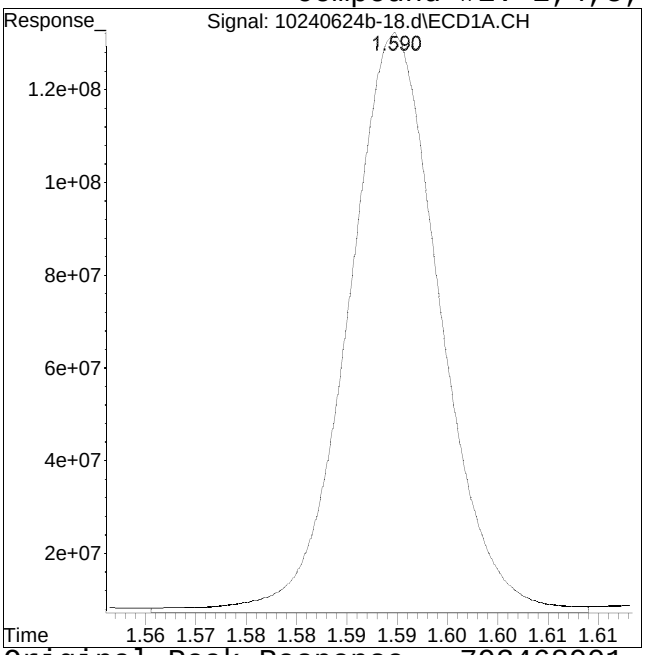
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



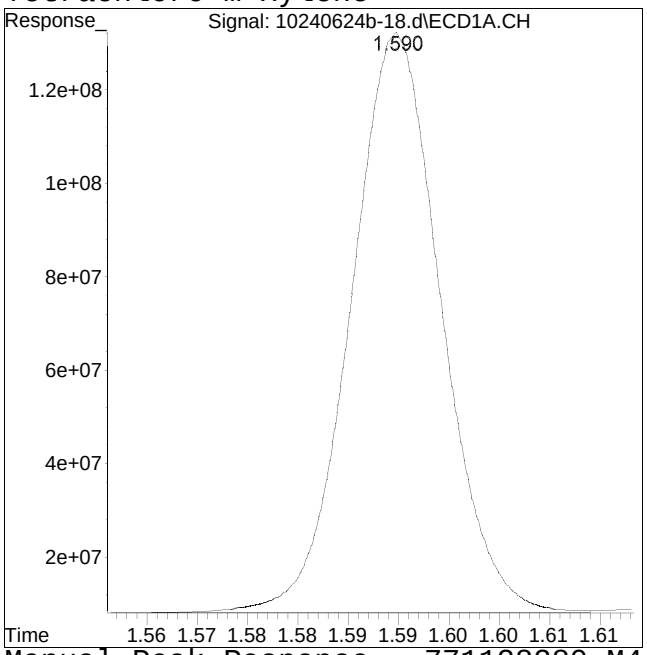
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240624QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240624b-18.d Operator : PEST10:emr
Date Inj'd : 6/24/2024 19:03 Instrument : Pest 10
Sample : L2434679-03,42,, p Quant Date : 6/25/2024 8:58 am

Compound #2: 2,4,5,6-Tetrachloro-m-xylene



Original Peak Response = 793468901



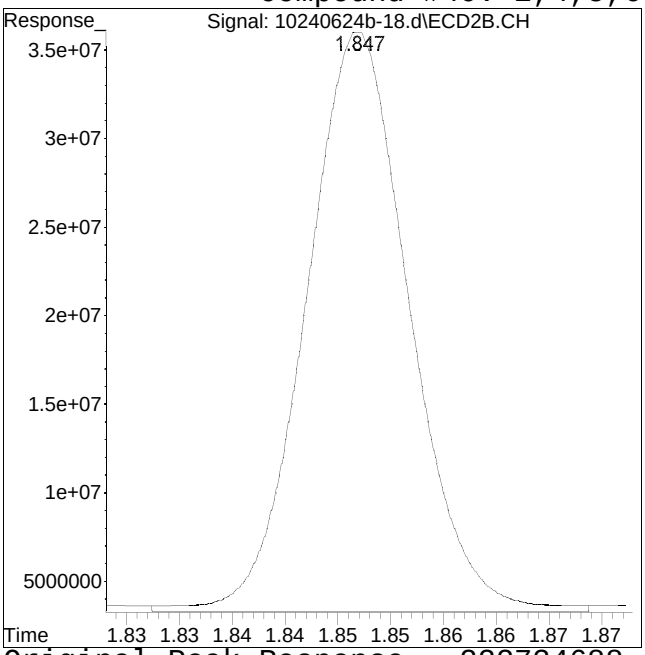
Manual Peak Response = 771128280 M4

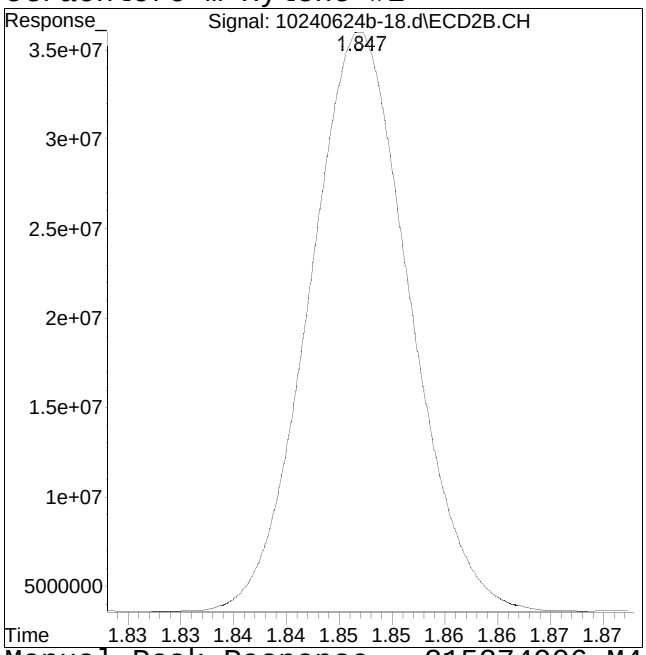
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240624QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240624b-18.d Operator : PEST10:emr
Date Inj'd : 6/24/2024 19:03 Instrument : Pest 10
Sample : L2434679-03,42,, p Quant Date : 6/25/2024 8:58 am

Compound #40: 2,4,5,6-Tetrachloro-m-xylene #2



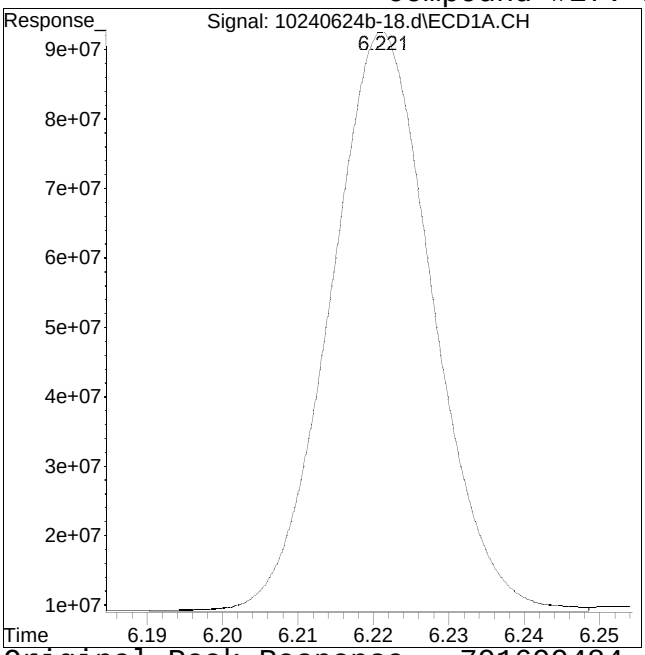


Original Peak Response = 222734688 Manual Peak Response = 215274906 M4
M4 = Poor automated baseline construction.

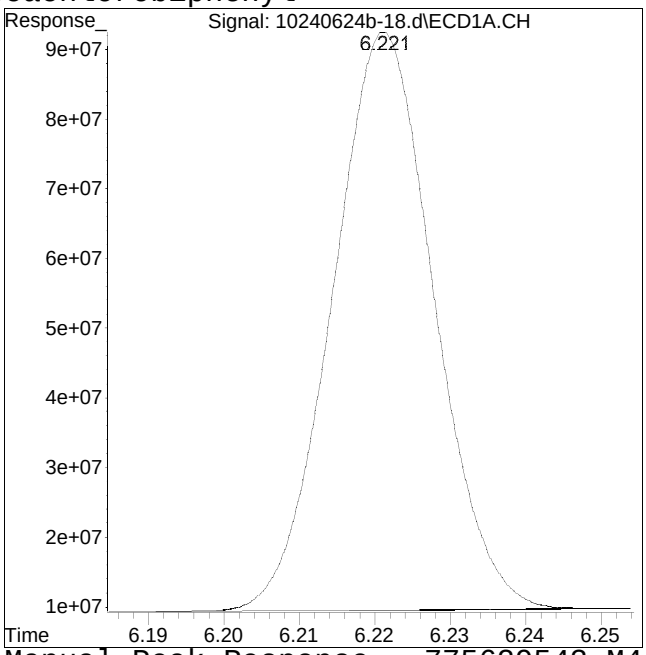
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240624QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240624b-18.d Operator : PEST10:emr
Date Inj'd : 6/24/2024 19:03 Instrument : Pest 10
Sample : L2434679-03,42,, p Quant Date : 6/25/2024 8:58 am

Compound #27: Decachlorobiphenyl



Original Peak Response = 791699484

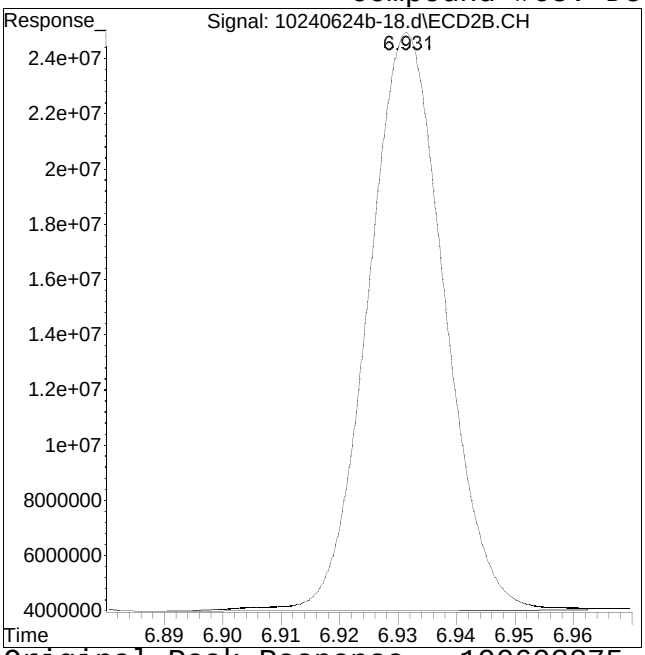


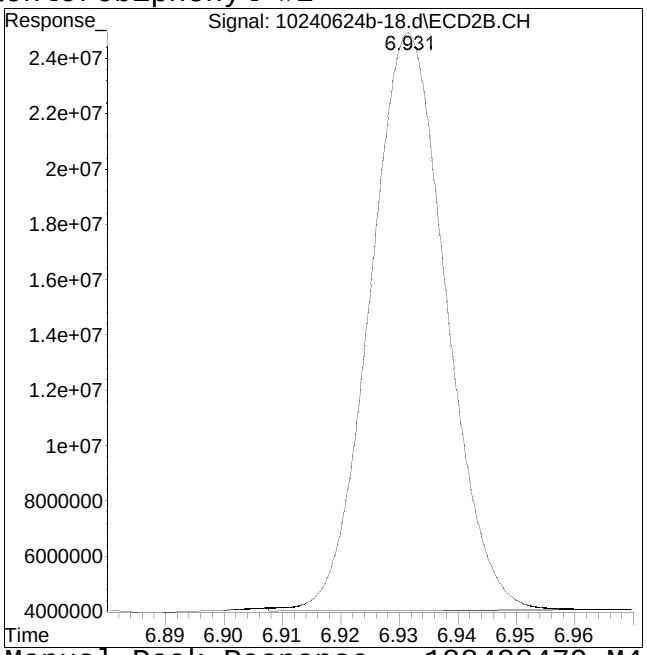
Manual Peak Response = 775629543 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240624QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240624b-18.d Operator : PEST10:emr
Date Inj'd : 6/24/2024 19:03 Instrument : Pest 10
Sample : L2434679-03,42,, p Quant Date : 6/25/2024 8:58 am

Compound #65: Decachlorobiphenyl #2





Original Peak Response = 190603275 Manual Peak Response = 188488479 M4
M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest10\2024\240624B\
Data File : 10240624b-21.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 24 Jun 2024 19:36
Operator : PEST10:emr
Sample : L2434679-04,42,,
Misc : wg1938709,WG1938134,ical21109
ALS Vial : 21 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 25 08:58:13 2024
Quant Method : I:\PEST\Pest10\2024\240624B\pest10_2024_05_02_ugL_ical21109.m
Quant Title : pest
QLast Update : Mon Jun 24 18:30:48 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PEST\Pest10\2024\240624B\10240624b-03.d
Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Internal Standards							
1) i	1-br-2-nb_Pe	1.252	1.367	513.4E6	149.3E6	25.000	25.000
	Standard Area 1 : #1 = 521435419				Recovery =	98.45%	
	Standard Area 1 : #2 = 149552544				Recovery =	99.86%	
28) i	1-br-2-nb_Ch	1.252	1.367	513.4E6	149.3E6	25.000	25.000
33) i	1-br-2-nb_To	1.252	1.367	513.4E6	149.3E6	25.000	25.000
System Monitoring Compounds							
2) s	2,4,5,6-Tetr	1.589	1.846	752.3E6	209.2E6	33.757M4	37.250M4
	Spiked Amount	50.000	Range 30 - 150		Recovery =	67.51%	74.50%
27) s	Decachlorobi	6.221	6.931	775.4E6	183.6E6	46.672	42.400
	Spiked Amount	50.000	Range 30 - 150		Recovery =	93.34%	84.80%
Target Compounds							
4) t	alpha-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5) t	gamma-BHC (l	0.000	0.000	0	0	N.D. d	N.D. d
6) t	beta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7) t	delta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
8) t	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
9) t	Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
12) t	Heptachlor E	0.000	0.000	0	0	N.D. d	N.D. d
13) t	gamma-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
14) t	alpha-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
15) t	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
16) t	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
17) t	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
18) t	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
19) t	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
20) t	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
21) t	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\PEST\Pest10\2024\240624B\
Data File : 10240624b-21.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 24 Jun 2024 19:36
Operator : PEST10:emr
Sample : L2434679-04,42,,
Misc : wg1938709,WG1938134,ical21109
ALS Vial : 21 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 25 08:58:13 2024
Quant Method : I:\PEST\Pest10\2024\240624B\pest10_2024_05_02_ugL_ical21109.m
Quant Title : pest
QLast Update : Mon Jun 24 18:30:48 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PEST\Pest10\2024\240624B\10240624b-03.d
Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
22) t	Endrin Aldeh	0.000	0.000	0	0	N.D. d	N.D. d
23) t	Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d
25) t	Endosulfan S	0.000	0.000	0	0	N.D. d	N.D. d
26) t	Endrin Keton	0.000	0.000	0	0	N.D. d	N.D. d
29) l1	chlordane-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l1	chlordane-3	0.000	0.000	0	0	N.D. d	N.D. d
31) l1	chlordane-4	0.000	0.000	0	0	N.D. d	N.D. d
32) l1	chlordane-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	chlordane-1			0	0	N.D.	N.D.
Average	chlordane-1					0.000	0.000
34) l2	toxaphene-1	0.000	0.000	0	0	N.D. d	N.D. d
35) l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
36) l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
37) l2	toxaphene-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000
SemiQuant Compounds - Not Calibrated on this Instrument							
Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

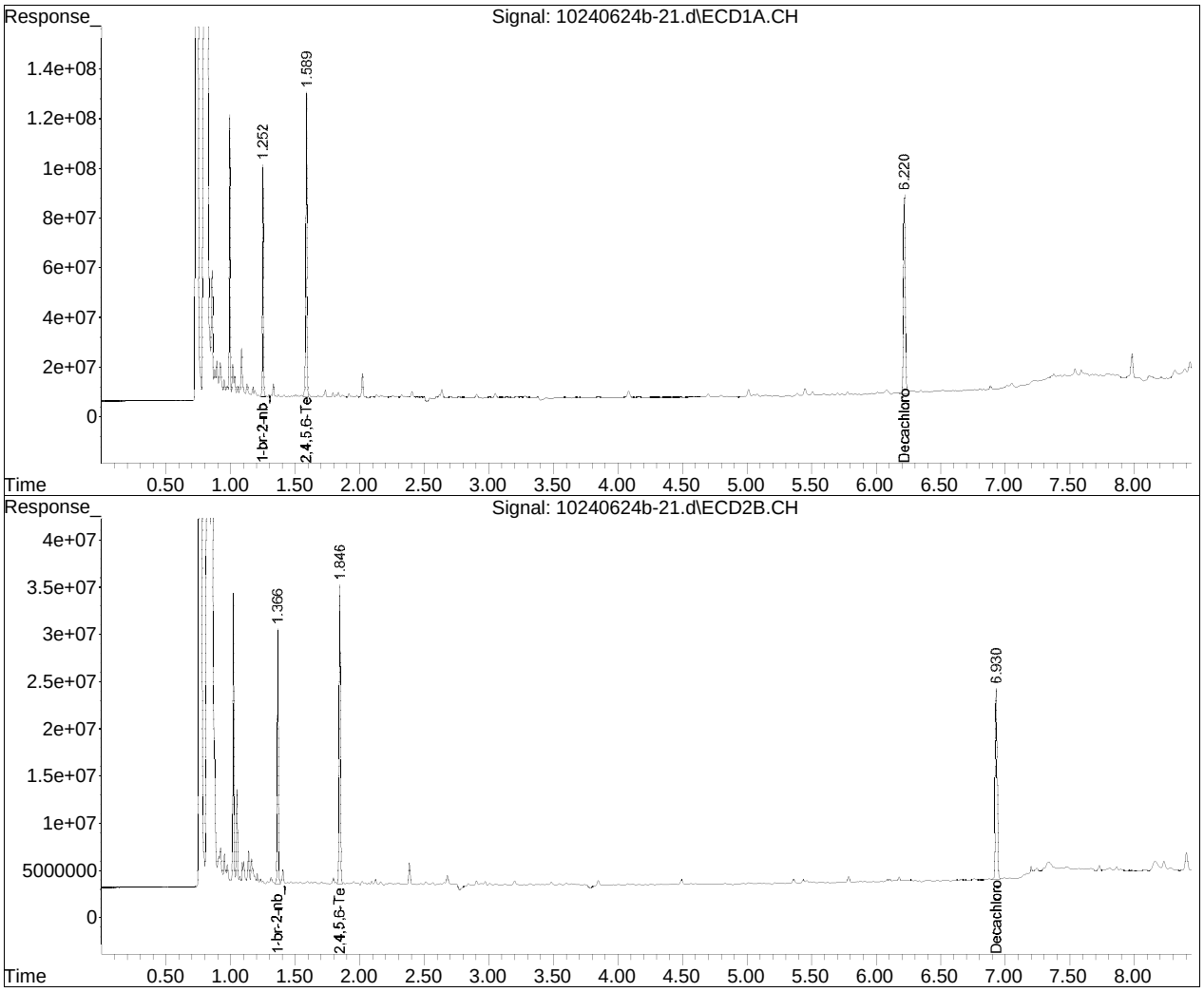
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listedB\10240624b-03.d•

Data Path : I:\PEST\Pest10\2024\240624B\
Data File : 10240624b-21.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 24 Jun 2024 19:36
Operator : PEST10:emr
Sample : L2434679-04,42,,
Misc : wg1938709,WG1938134,ical21109
ALS Vial : 21 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 25 08:58:13 2024
Quant Method : I:\PEST\Pest10\2024\240624B\pest10_2024_05_02_ugL_ical21109.m
Quant Title : pest
QLast Update : Mon Jun 24 18:30:48 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

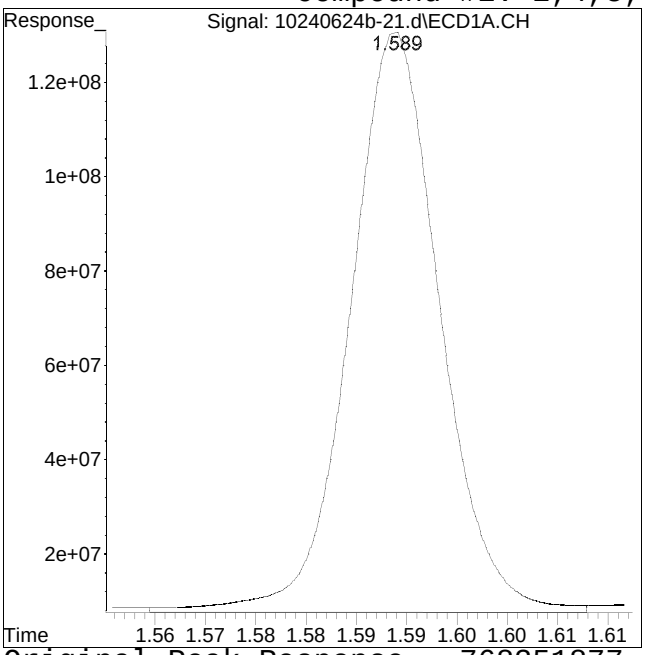
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

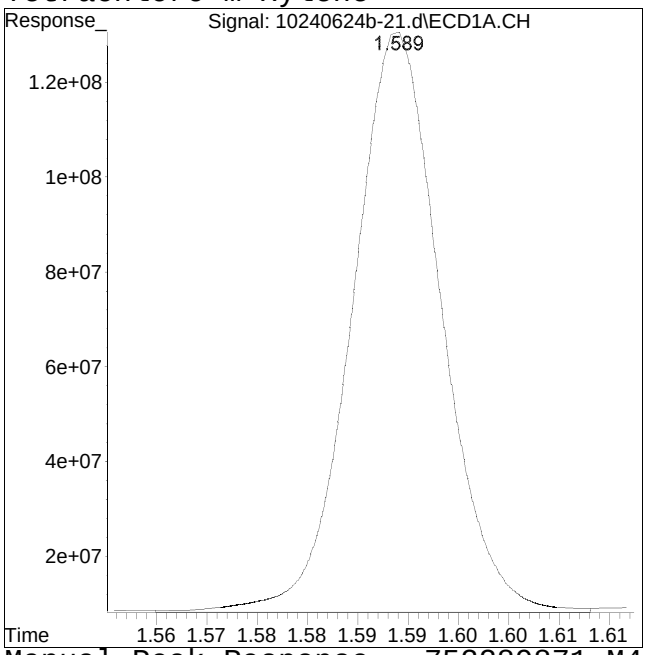


Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240624QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240624b-21.d Operator : PEST10:emr
Date Inj'd : 6/24/2024 19:36 Instrument : Pest 10
Sample : L2434679-04,42,, Quant Date : 6/25/2024 8:58 am

Compound #2: 2,4,5,6-Tetrachloro-m-xylene



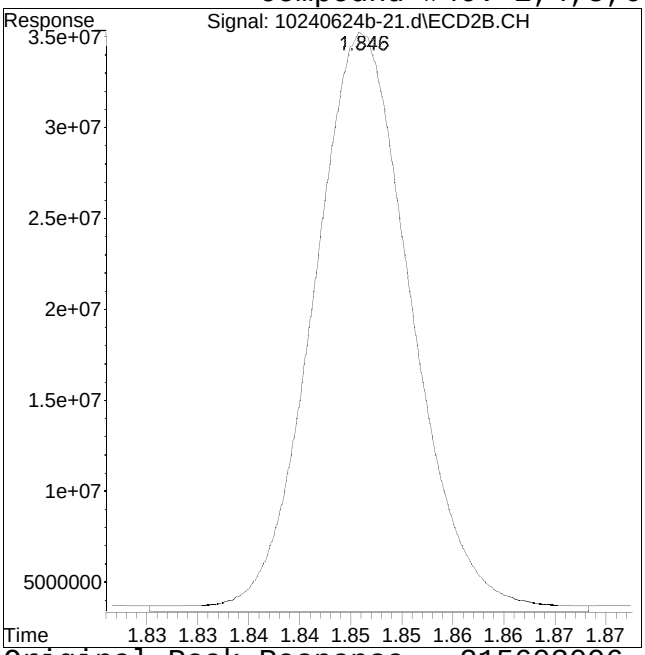


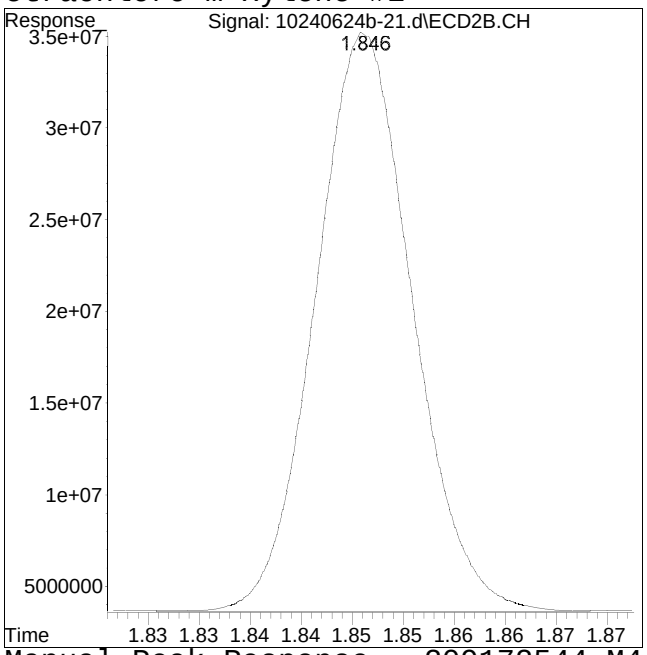
Original Peak Response = 768351877 Manual Peak Response = 752289871 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240624QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240624b-21.d Operator : PEST10:emr
Date Inj'd : 6/24/2024 19:36 Instrument : Pest 10
Sample : L2434679-04,42,, Quant Date : 6/25/2024 8:58 am

Compound #40: 2,4,5,6-Tetrachloro-m-xylene #2





Original Peak Response = 215603006 Manual Peak Response = 209172544 M4
M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest10\2024\240624B\
Data File : 10240624b-22.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 24 Jun 2024 19:47
Operator : PEST10:emr
Sample : L2434679-05,42,,
Misc : wg1938709,WG1938134,ical21109
ALS Vial : 22 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 25 08:58:16 2024
Quant Method : I:\PEST\Pest10\2024\240624B\pest10_2024_05_02_ugL_ical21109.m
Quant Title : pest
QLast Update : Mon Jun 24 18:30:48 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PEST\Pest10\2024\240624B\10240624b-03.d
Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Internal Standards							
1) i	1-br-2-nb_Pe	1.253	1.367	514.8E6	148.0E6	25.000	25.000
	Standard Area 1 : #1 = 521435419				Recovery =	98.73%	
	Standard Area 1 : #2 = 149552544				Recovery =	98.98%	
28) i	1-br-2-nb_Ch	1.253	1.367	514.8E6	148.0E6	25.000	25.000
33) i	1-br-2-nb_To	1.253	1.367	514.8E6	148.0E6	25.000	25.000
System Monitoring Compounds							
2) s	2,4,5,6-Tetr	1.590	1.847	664.9E6	179.5E6	29.752	32.248
	Spiked Amount 50.000	Range 30 - 150		Recovery =	59.50%	64.50%	
27) s	Decachlorobi	6.221	6.932	677.9E6	168.0E6	40.563	39.077
	Spiked Amount 50.000	Range 30 - 150		Recovery =	81.13%	78.15%	
Target Compounds							
4) t	alpha-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5) t	gamma-BHC (l	0.000	0.000	0	0	N.D. d	N.D. d
6) t	beta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7) t	delta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
8) t	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
9) t	Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
12) t	Heptachlor E	0.000	0.000	0	0	N.D. d	N.D. d
13) t	gamma-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
14) t	alpha-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
15) t	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
16) t	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
17) t	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
18) t	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
19) t	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
20) t	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
21) t	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
22) t	Endrin Aldeh	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\PEST\Pest10\2024\240624B\
Data File : 10240624b-22.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 24 Jun 2024 19:47
Operator : PEST10:emr
Sample : L2434679-05,42,,
Misc : wg1938709,WG1938134,ical21109
ALS Vial : 22 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 25 08:58:16 2024
Quant Method : I:\PEST\Pest10\2024\240624B\pest10_2024_05_02_ugL_ical21109.m
Quant Title : pest
QLast Update : Mon Jun 24 18:30:48 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PEST\Pest10\2024\240624B\10240624b-03.d
Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
23) t	Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d
25) t	Endosulfan S	0.000	0.000	0	0	N.D. d	N.D. d
26) t	Endrin Keton	0.000	0.000	0	0	N.D. d	N.D. d
29) l1	chlordane-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l1	chlordane-3	0.000	0.000	0	0	N.D. d	N.D. d
31) l1	chlordane-4	0.000	0.000	0	0	N.D. d	N.D. d
32) l1	chlordane-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	chlordane-1			0	0	N.D.	N.D.
Average	chlordane-1					0.000	0.000
34) l2	toxaphene-1	0.000	0.000	0	0	N.D. d	N.D. d
35) l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
36) l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
37) l2	toxaphene-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000
SemiQuant Compounds - Not Calibrated on this Instrument							
Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

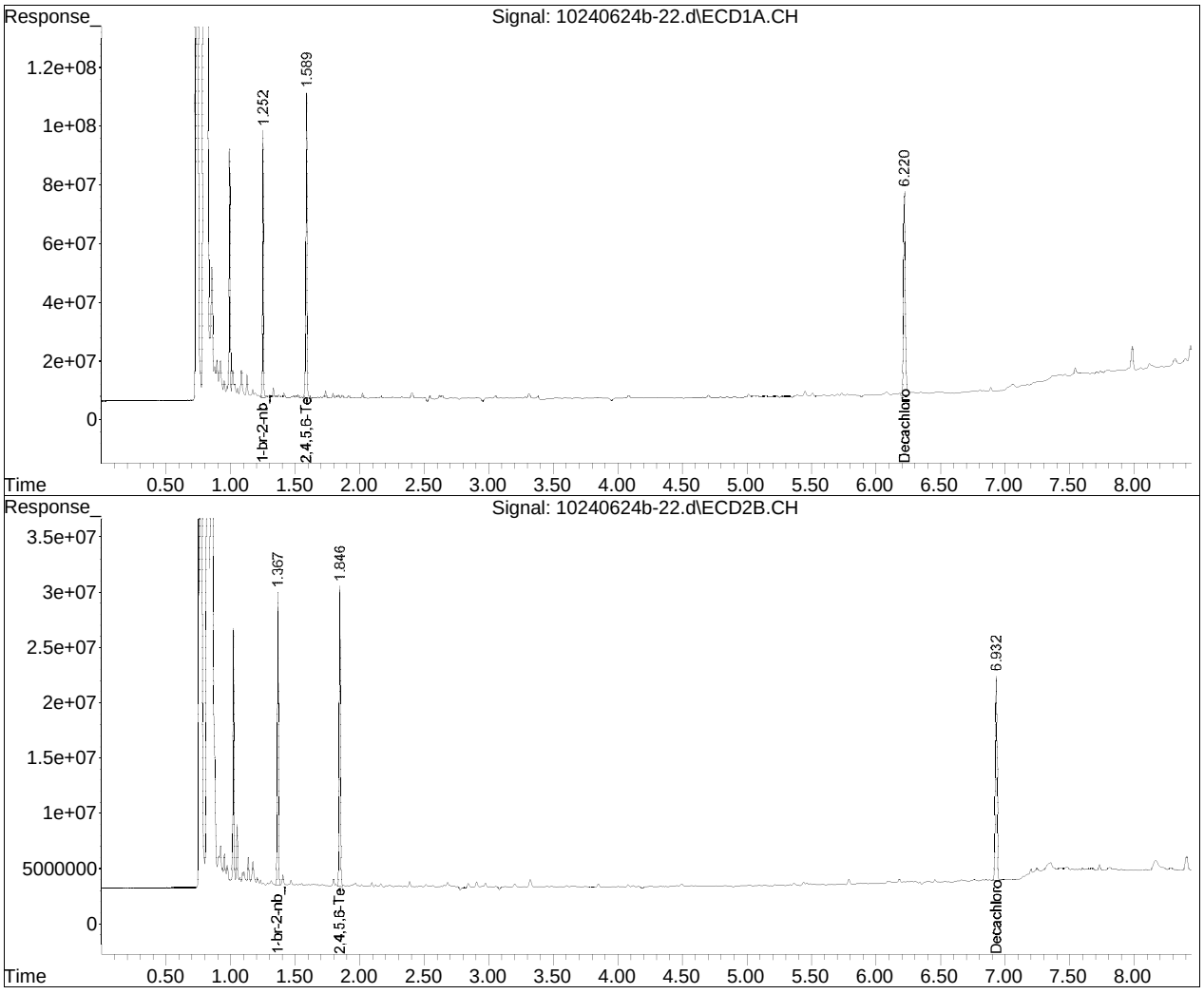
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listedB\10240624b-03.d•

Data Path : I:\PEST\Pest10\2024\240624B\
Data File : 10240624b-22.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 24 Jun 2024 19:47
Operator : PEST10:emr
Sample : L2434679-05,42,,
Misc : wg1938709,WG1938134,ical21109
ALS Vial : 22 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 25 08:58:16 2024
Quant Method : I:\PEST\Pest10\2024\240624B\pest10_2024_05_02_ugL_ical21109.m
Quant Title : pest
QLast Update : Mon Jun 24 18:30:48 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



Manual Integration Report

Data Path	: I:\PEST\Pest10\2024\240624	QMethod	: pest10_2024_05_02_ugL_ic
Data File	: 10240624b-22.d	Operator	: PEST10:emr
Date Inj'd	: 6/24/2024 19:47	Instrument	: Pest 10
Sample	: L2434679-05,42,,	Quant Date	: 6/25/2024 8:58 am

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest10\2024\240624B\
Data File : 10240624b-23.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 24 Jun 2024 19:58
Operator : PEST10:emr
Sample : L2434679-06,42,,
Misc : wg1938709,WG1938134,ical21109
ALS Vial : 23 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 25 08:58:19 2024
Quant Method : I:\PEST\Pest10\2024\240624B\pest10_2024_05_02_ugL_ical21109.m
Quant Title : pest
QLast Update : Mon Jun 24 18:30:48 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PEST\Pest10\2024\240624B\10240624b-03.d
Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Internal Standards							
1) i	1-br-2-nb_Pe	1.252	1.367	561.1E6	162.9E6	25.000	25.000
	Standard Area 1 : #1 = 521435419				Recovery =	107.60%	
	Standard Area 1 : #2 = 149552544				Recovery =	108.95%	
28) i	1-br-2-nb_Ch	1.252	1.367	561.1E6	162.9E6	25.000	25.000
33) i	1-br-2-nb_To	1.252	1.367	561.1E6	162.9E6	25.000	25.000
System Monitoring Compounds							
2) s	2,4,5,6-Tetr	1.589	1.847	709.5E6	193.1E6	29.127	31.518
	Spiked Amount 50.000	Range 30 - 150			Recovery =	58.25%	63.04%
27) s	Decachlorobi	6.220	6.931	696.4E6	166.6E6	38.181	35.114
	Spiked Amount 50.000	Range 30 - 150			Recovery =	76.36%	70.23%
Target Compounds							
4) t	alpha-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5) t	gamma-BHC (l	0.000	0.000	0	0	N.D. d	N.D. d
6) t	beta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7) t	delta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
8) t	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
9) t	Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
12) t	Heptachlor E	0.000	0.000	0	0	N.D. d	N.D. d
13) t	gamma-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
14) t	alpha-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
15) t	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
16) t	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
17) t	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
18) t	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
19) t	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
20) t	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
21) t	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
22) t	Endrin Aldeh	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\PEST\Pest10\2024\240624B\
Data File : 10240624b-23.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 24 Jun 2024 19:58
Operator : PEST10:emr
Sample : L2434679-06,42,,
Misc : wg1938709,WG1938134,ical21109
ALS Vial : 23 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 25 08:58:19 2024
Quant Method : I:\PEST\Pest10\2024\240624B\pest10_2024_05_02_ugL_ical21109.m
Quant Title : pest
QLast Update : Mon Jun 24 18:30:48 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PEST\Pest10\2024\240624B\10240624b-03.d
Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
23) t	Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d
25) t	Endosulfan S	0.000	0.000	0	0	N.D. d	N.D. d
26) t	Endrin Keton	0.000	0.000	0	0	N.D. d	N.D. d
29) l1	chlordane-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l1	chlordane-3	0.000	0.000	0	0	N.D. d	N.D. d
31) l1	chlordane-4	0.000	0.000	0	0	N.D. d	N.D. d
32) l1	chlordane-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	chlordane-1			0	0	N.D.	N.D.
Average	chlordane-1					0.000	0.000
34) l2	toxaphene-1	0.000	0.000	0	0	N.D. d	N.D. d
35) l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
36) l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
37) l2	toxaphene-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000
SemiQuant Compounds - Not Calibrated on this Instrument							
Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

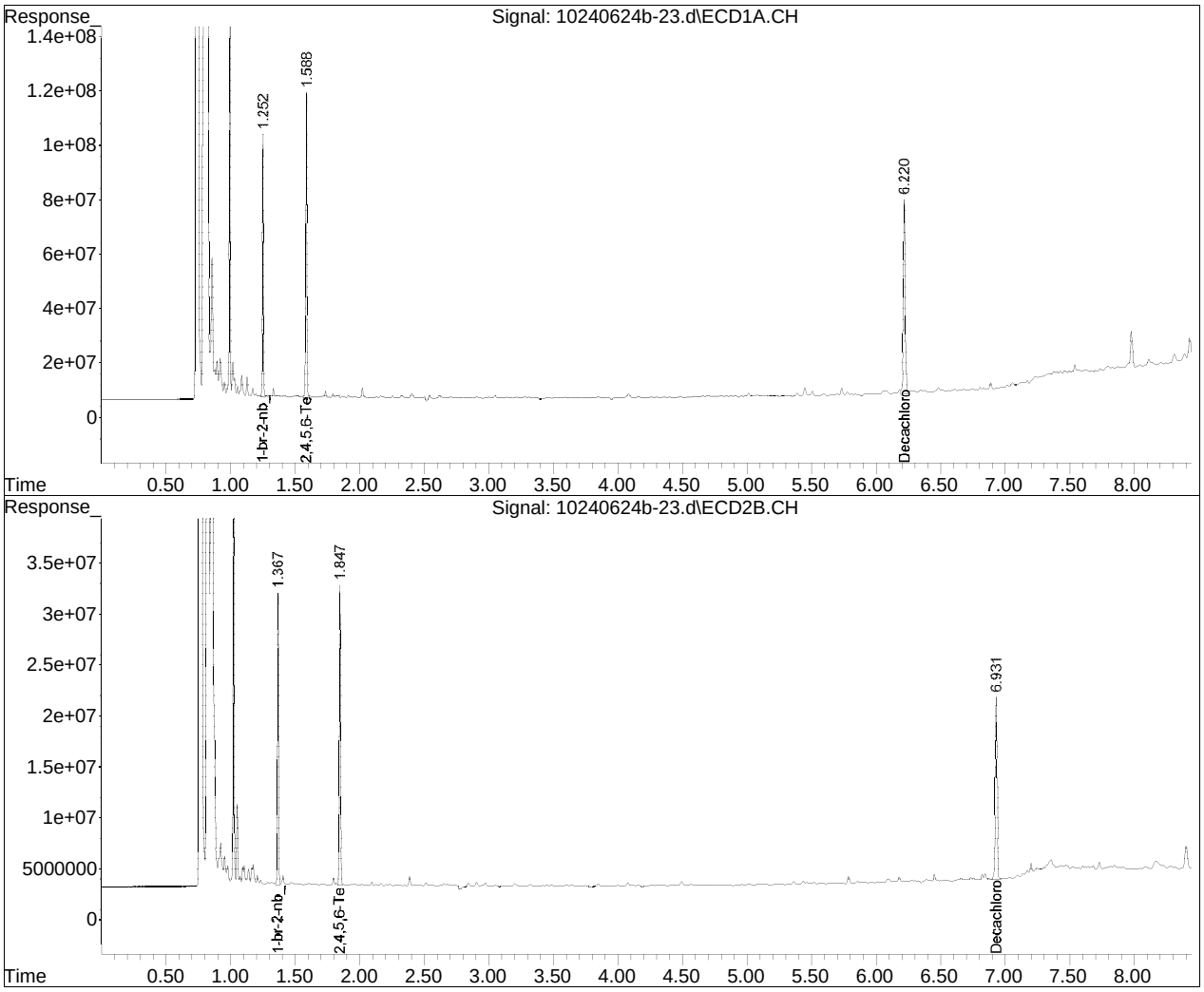
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listedB\10240624b-03.d•

Data Path : I:\PEST\Pest10\2024\240624B\
Data File : 10240624b-23.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 24 Jun 2024 19:58
Operator : PEST10:emr
Sample : L2434679-06,42,,
Misc : wg1938709,WG1938134,ical21109
ALS Vial : 23 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 25 08:58:19 2024
Quant Method : I:\PEST\Pest10\2024\240624B\pest10_2024_05_02_ugL_ical21109.m
Quant Title : pest
QLast Update : Mon Jun 24 18:30:48 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



Manual Integration Report

Data Path	: I:\PEST\Pest10\2024\240624	QMethod	: pest10_2024_05_02_ugL_ic
Data File	: 10240624b-23.d	Operator	: PEST10:emr
Date Inj'd	: 6/24/2024 19:58	Instrument	: Pest 10
Sample	: L2434679-06,42,,	Quant Date	: 6/25/2024 8:58 am

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest10\2024\240624B\
Data File : 10240624b-24.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 24 Jun 2024 20:09
Operator : PEST10:emr
Sample : L2434679-07,42,,
Misc : wg1938709,WG1938134,ical21109
ALS Vial : 24 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 25 08:58:23 2024
Quant Method : I:\PEST\Pest10\2024\240624B\pest10_2024_05_02_ugL_ical21109.m
Quant Title : pest
QLast Update : Mon Jun 24 18:30:48 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PEST\Pest10\2024\240624B\10240624b-03.d
Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Internal Standards							
1) i	1-br-2-nb_Pe	1.253	1.367	578.1E6	165.0E6	25.000	25.000
	Standard Area 1 : #1 = 521435419				Recovery =	110.88%	
	Standard Area 1 : #2 = 149552544				Recovery =	110.34%	
28) i	1-br-2-nb_Ch	1.253	1.367	578.1E6	165.0E6	25.000	25.000
33) i	1-br-2-nb_To	1.253	1.367	578.1E6	165.0E6	25.000	25.000
System Monitoring Compounds							
2) s	2,4,5,6-Tetr	1.589	1.847	725.1E6	200.2E6	28.891M4	32.267
	Spiked Amount 50.000	Range 30 - 150			Recovery =	57.78%	64.53%
27) s	Decachlorobi	6.221	6.932	743.3E6	182.2E6	39.586	37.994
	Spiked Amount 50.000	Range 30 - 150			Recovery =	79.17%	75.99%
Target Compounds							
4) t	alpha-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5) t	gamma-BHC (l	0.000	0.000	0	0	N.D. d	N.D. d
6) t	beta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7) t	delta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
8) t	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
9) t	Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
12) t	Heptachlor E	0.000	0.000	0	0	N.D. d	N.D. d
13) t	gamma-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
14) t	alpha-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
15) t	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
16) t	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
17) t	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
18) t	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
19) t	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
20) t	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
21) t	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\PEST\Pest10\2024\240624B\
Data File : 10240624b-24.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 24 Jun 2024 20:09
Operator : PEST10:emr
Sample : L2434679-07,42,,
Misc : wg1938709,WG1938134,ical21109
ALS Vial : 24 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 25 08:58:23 2024
Quant Method : I:\PEST\Pest10\2024\240624B\pest10_2024_05_02_ugL_ical21109.m
Quant Title : pest
QLast Update : Mon Jun 24 18:30:48 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PEST\Pest10\2024\240624B\10240624b-03.d
Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
22) t	Endrin Aldeh	0.000	0.000	0	0	N.D. d	N.D. d
23) t	Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d
25) t	Endosulfan S	0.000	0.000	0	0	N.D. d	N.D. d
26) t	Endrin Keton	0.000	0.000	0	0	N.D. d	N.D. d
29) l1	chlordane-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l1	chlordane-3	0.000	0.000	0	0	N.D. d	N.D. d
31) l1	chlordane-4	0.000	0.000	0	0	N.D. d	N.D. d
32) l1	chlordane-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	chlordane-1			0	0	N.D.	N.D.
Average	chlordane-1					0.000	0.000
34) l2	toxaphene-1	0.000	0.000	0	0	N.D. d	N.D. d
35) l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
36) l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
37) l2	toxaphene-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000
SemiQuant Compounds - Not Calibrated on this Instrument							
Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

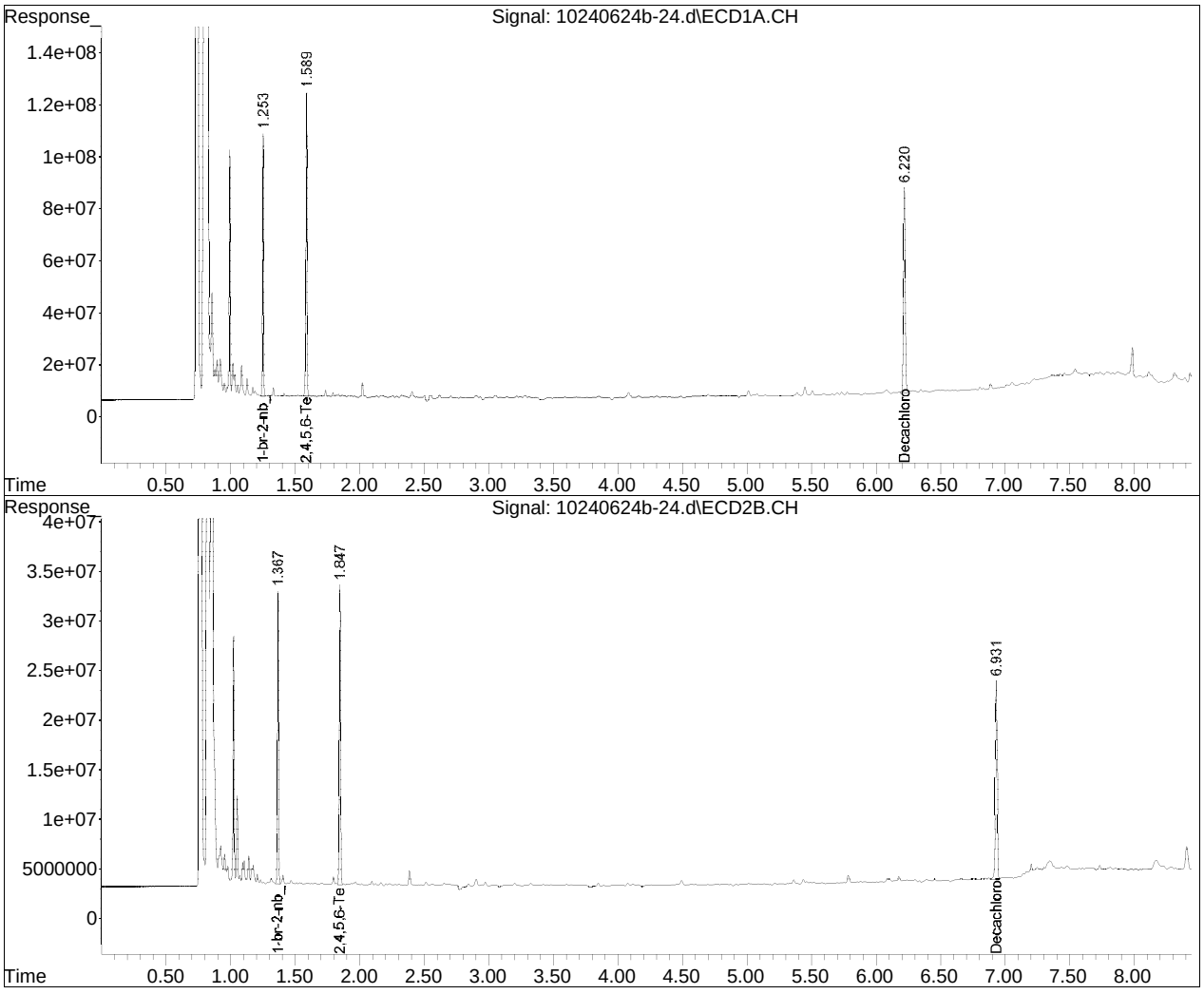
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listedB\10240624b-03.d•

Data Path : I:\PEST\Pest10\2024\240624B\
Data File : 10240624b-24.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 24 Jun 2024 20:09
Operator : PEST10:emr
Sample : L2434679-07,42,,
Misc : wg1938709,WG1938134,ical21109
ALS Vial : 24 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 25 08:58:23 2024
Quant Method : I:\PEST\Pest10\2024\240624B\pest10_2024_05_02_ugL_ical21109.m
Quant Title : pest
QLast Update : Mon Jun 24 18:30:48 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

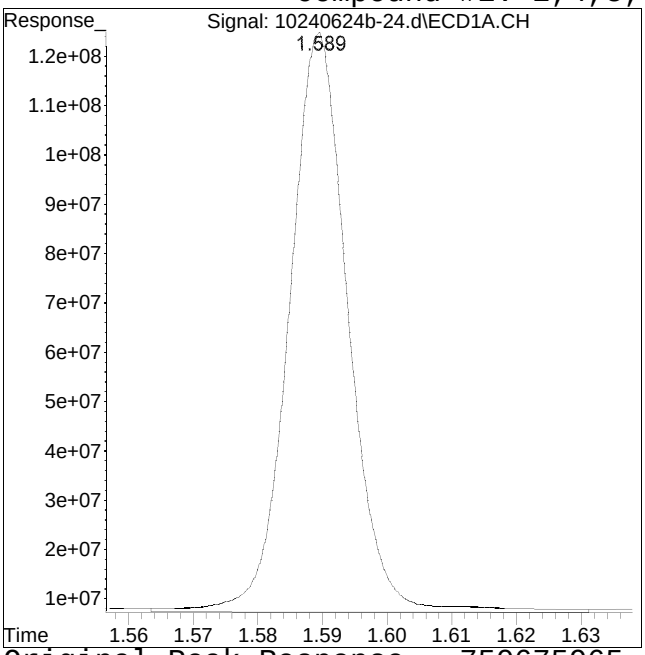
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

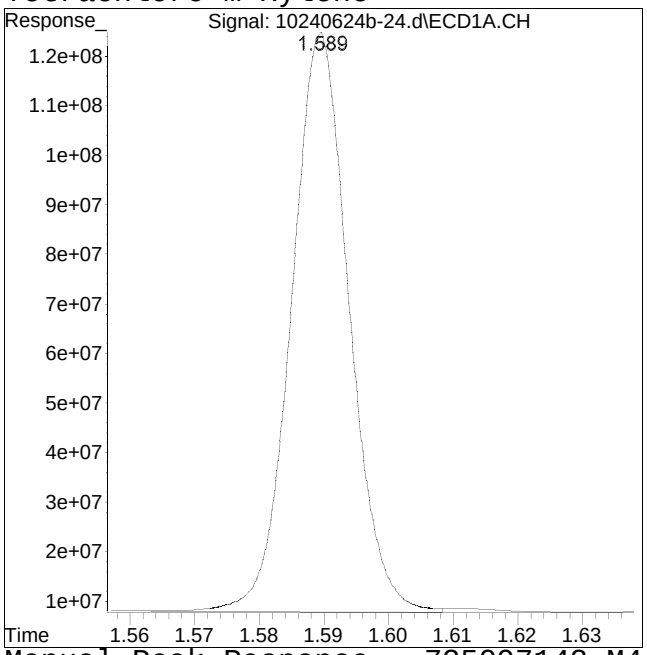


Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240624QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240624b-24.d Operator : PEST10:emr
Date Inj'd : 6/24/2024 20:09 Instrument : Pest 10
Sample : L2434679-07,42,, Quant Date : 6/25/2024 8:58 am

Compound #2: 2,4,5,6-Tetrachloro-m-xylene





Original Peak Response = 750675965 Manual Peak Response = 725097142 M4
M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest10\2024\240624B\
Data File : 10240624b-25.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 24 Jun 2024 20:20
Operator : PEST10:emr
Sample : L2434679-08,42,,
Misc : wg1938709,WG1938134,ical21109
ALS Vial : 25 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 25 08:58:39 2024
Quant Method : I:\PEST\Pest10\2024\240624B\pest10_2024_05_02_ugL_ical21109.m
Quant Title : pest
QLast Update : Mon Jun 24 18:30:48 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PEST\Pest10\2024\240624B\10240624b-03.d
Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Internal Standards							
1) i	1-br-2-nb_Pe	1.253	1.367	540.0E6	156.4E6	25.000	25.000
	Standard Area 1 : #1 = 521435419				Recovery =	103.56%	
	Standard Area 1 : #2 = 149552544				Recovery =	104.61%	
28) i	1-br-2-nb_Ch	1.253	1.367	540.0E6	156.4E6	25.000	25.000
33) i	1-br-2-nb_To	1.253	1.367	540.0E6	156.4E6	25.000	25.000
System Monitoring Compounds							
2) s	2,4,5,6-Tetr	1.589	1.847	759.8E6	206.2E6	32.415	35.050
	Spiked Amount 50.000	Range 30 - 150			Recovery =	64.83%	70.10%
27) s	Decachlorobi	6.220	6.931	637.9E6	182.2E6	36.295	40.131
	Spiked Amount 50.000	Range 30 - 150			Recovery =	72.59%	80.26%
Target Compounds							
4) t	alpha-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5) t	gamma-BHC (l	0.000	0.000	0	0	N.D. d	N.D. d
6) t	beta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7) t	delta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
8) t	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
9) t	Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
12) t	Heptachlor E	0.000	0.000	0	0	N.D. d	N.D. d
13) t	gamma-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
14) t	alpha-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
15) t	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
16) t	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
17) t	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
18) t	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
19) t	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
20) t	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
21) t	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
22) t	Endrin Aldeh	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest10\2024\240624B\
Data File : 10240624b-25.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 24 Jun 2024 20:20
Operator : PEST10:emr
Sample : L2434679-08,42,,
Misc : wg1938709,WG1938134,ical21109
ALS Vial : 25 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 25 08:58:39 2024
Quant Method : I:\PEST\Pest10\2024\240624B\pest10_2024_05_02_ugL_ical21109.m
Quant Title : pest
QLast Update : Mon Jun 24 18:30:48 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PEST\Pest10\2024\240624B\10240624b-03.d
Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
23) t	Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d
25) t	Endosulfan S	0.000	0.000	0	0	N.D. d	N.D. d
26) t	Endrin Keton	0.000	0.000	0	0	N.D. d	N.D. d
29) l1	chlordane-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l1	chlordane-3	0.000	0.000	0	0	N.D. d	N.D. d
31) l1	chlordane-4	0.000	0.000	0	0	N.D. d	N.D. d
32) l1	chlordane-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	chlordane-1			0	0	N.D.	N.D.
Average	chlordane-1					0.000	0.000
34) l2	toxaphene-1	0.000	0.000	0	0	N.D. d	N.D. d
35) l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
36) l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
37) l2	toxaphene-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000
SemiQuant Compounds - Not Calibrated on this Instrument							
Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

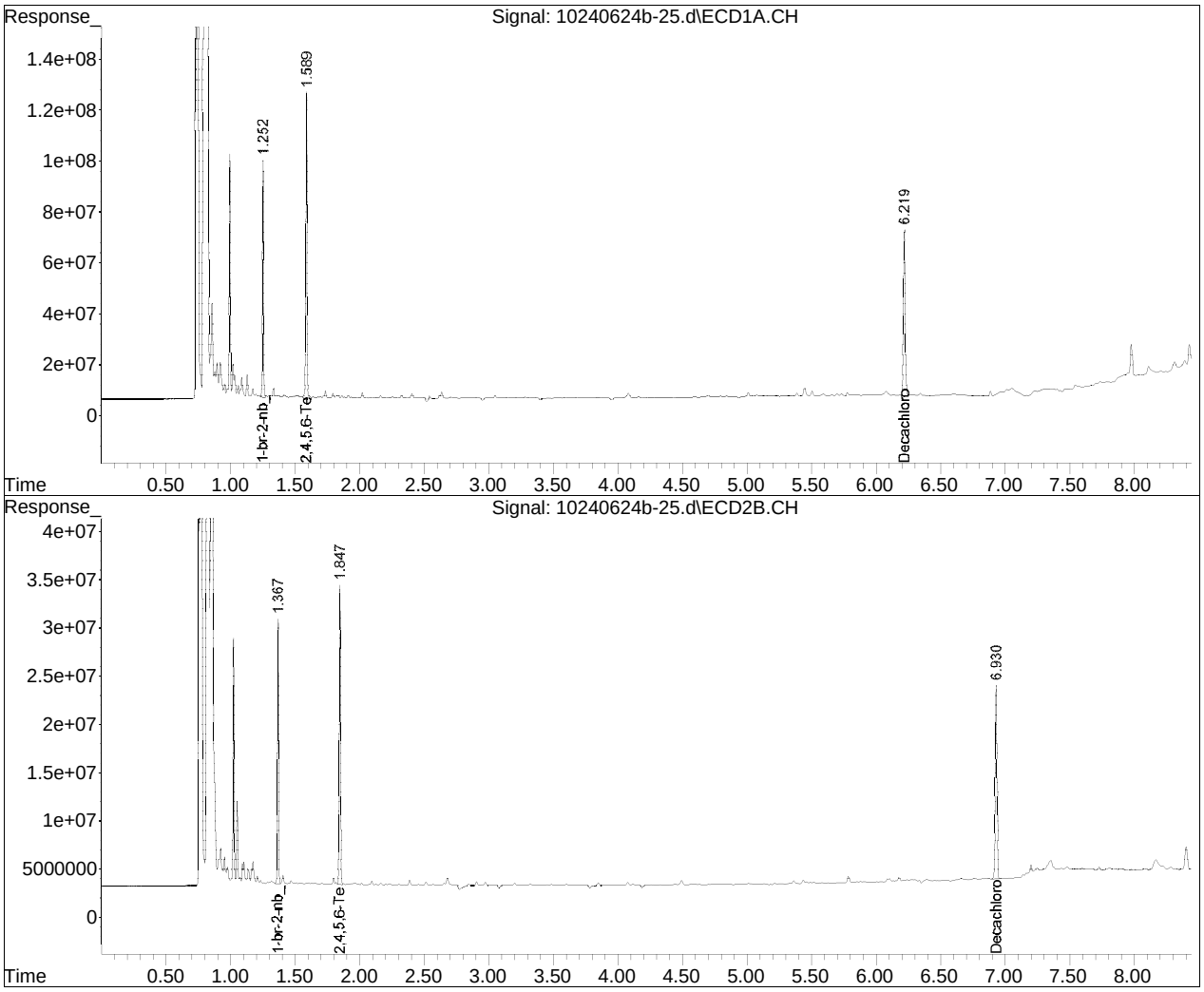
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listedB\10240624b-03.d•

Data Path : I:\PEST\Pest10\2024\240624B\
Data File : 10240624b-25.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 24 Jun 2024 20:20
Operator : PEST10:emr
Sample : L2434679-08,42,,
Misc : wg1938709,WG1938134,ical21109
ALS Vial : 25 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 25 08:58:39 2024
Quant Method : I:\PEST\Pest10\2024\240624B\pest10_2024_05_02_ugL_ical21109.m
Quant Title : pest
QLast Update : Mon Jun 24 18:30:48 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



Manual Integration Report

Data Path	: I:\PEST\Pest10\2024\240624	QMethod	: pest10_2024_05_02_ugL_ic
Data File	: 10240624b-25.d	Operator	: PEST10:emr
Date Inj'd	: 6/24/2024 20:20	Instrument	: Pest 10
Sample	: L2434679-08,42,,	Quant Date	: 6/25/2024 8:58 am

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest10\2024\240624B\
Data File : 10240624b-26.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 24 Jun 2024 20:31
Operator : PEST10:emr
Sample : L2434679-09,42,,
Misc : wg1938709,WG1938134,ical21109
ALS Vial : 26 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 25 08:59:05 2024
Quant Method : I:\PEST\Pest10\2024\240624B\pest10_2024_05_02_ugL_ical21109.m
Quant Title : pest
QLast Update : Mon Jun 24 18:30:48 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PEST\Pest10\2024\240624B\10240624b-03.d
Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Internal Standards							
1) i	1-br-2-nb_Pe	1.252	1.367	578.0E6	162.9E6	25.000	25.000
	Standard Area 1 : #1 = 521435419				Recovery =	110.85%	
	Standard Area 1 : #2 = 149552544				Recovery =	108.92%	
28) i	1-br-2-nb_Ch	1.252	1.367	578.0E6	162.9E6	25.000	25.000
33) i	1-br-2-nb_To	1.252	1.367	578.0E6	162.9E6	25.000	25.000
System Monitoring Compounds							
2) s	2,4,5,6-Tetr	1.588	1.847	741.5E6	205.4E6	29.550M4	33.537
	Spiked Amount 50.000	Range 30 - 150			Recovery =	59.10%	67.07%
27) s	Decachlorobi	6.220	6.931	763.7E6	186.7E6	40.705	39.480
	Spiked Amount 50.000	Range 30 - 150			Recovery =	81.41%	78.96%
Target Compounds							
4) t	alpha-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5) t	gamma-BHC (l	0.000	0.000	0	0	N.D. d	N.D. d
6) t	beta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7) t	delta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
8) t	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
9) t	Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
12) t	Heptachlor E	0.000	0.000	0	0	N.D. d	N.D. d
13) t	gamma-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
14) t	alpha-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
15) t	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
16) t	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
17) t	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
18) t	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
19) t	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
20) t	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
21) t	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\PEST\Pest10\2024\240624B\
Data File : 10240624b-26.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 24 Jun 2024 20:31
Operator : PEST10:emr
Sample : L2434679-09,42,,
Misc : wg1938709,WG1938134,ical21109
ALS Vial : 26 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 25 08:59:05 2024
Quant Method : I:\PEST\Pest10\2024\240624B\pest10_2024_05_02_ugL_ical21109.m
Quant Title : pest
QLast Update : Mon Jun 24 18:30:48 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PEST\Pest10\2024\240624B\10240624b-03.d
Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
22) t	Endrin Aldeh	0.000	0.000	0	0	N.D. d	N.D. d
23) t	Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d
25) t	Endosulfan S	0.000	0.000	0	0	N.D. d	N.D. d
26) t	Endrin Keton	0.000	0.000	0	0	N.D. d	N.D. d
29) l1	chlordane-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l1	chlordane-3	0.000	0.000	0	0	N.D. d	N.D. d
31) l1	chlordane-4	0.000	0.000	0	0	N.D. d	N.D. d
32) l1	chlordane-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	chlordane-1			0	0	N.D.	N.D.
Average	chlordane-1					0.000	0.000
34) l2	toxaphene-1	0.000	0.000	0	0	N.D. d	N.D. d
35) l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
36) l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
37) l2	toxaphene-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000
SemiQuant Compounds - Not Calibrated on this Instrument							
Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

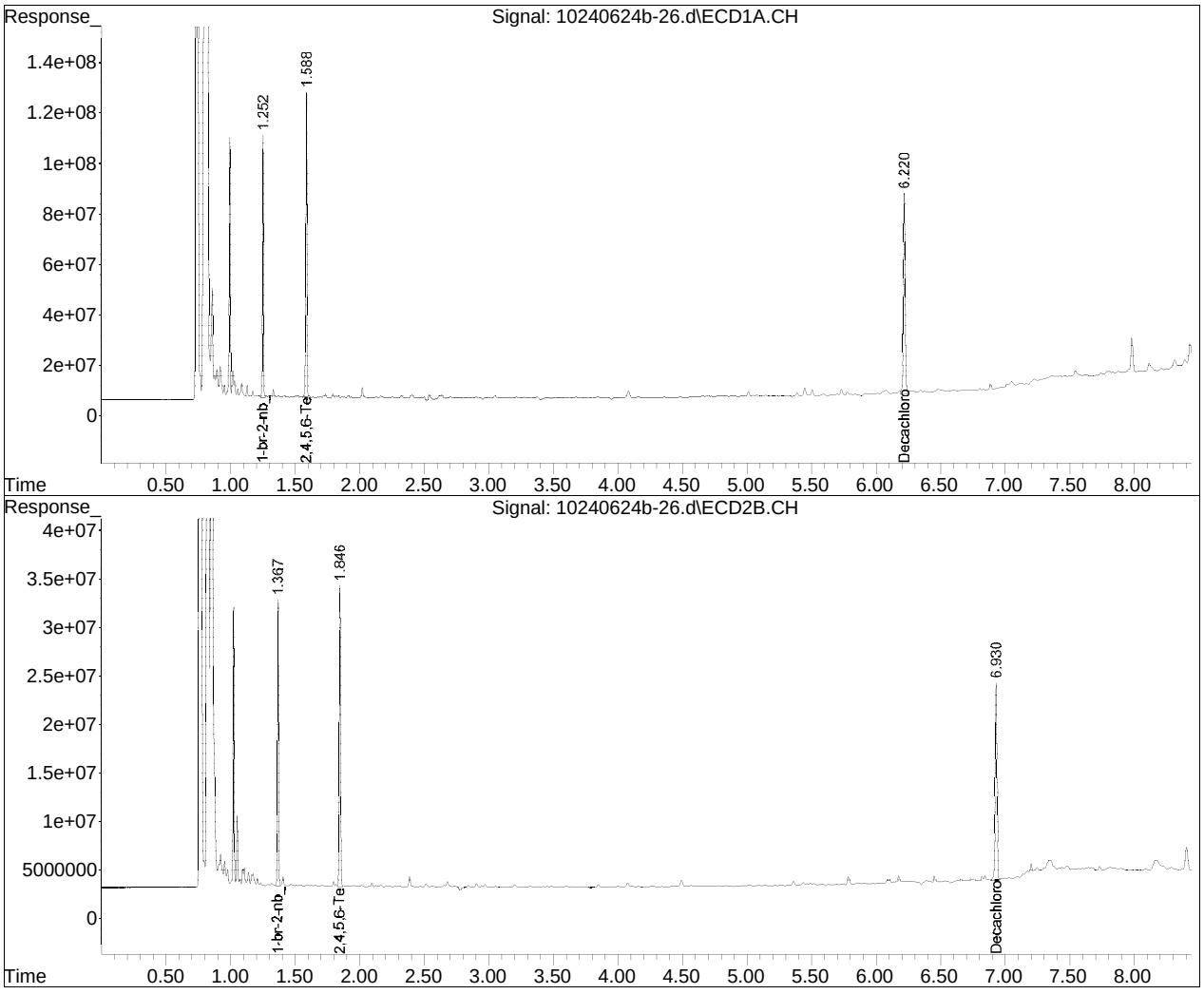
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listedB\10240624b-03.d•

Data Path : I:\PEST\Pest10\2024\240624B\
Data File : 10240624b-26.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 24 Jun 2024 20:31
Operator : PEST10:emr
Sample : L2434679-09,42,,
Misc : wg1938709,WG1938134,ical21109
ALS Vial : 26 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 25 08:59:05 2024
Quant Method : I:\PEST\Pest10\2024\240624B\pest10_2024_05_02_ugL_ical21109.m
Quant Title : pest
QLast Update : Mon Jun 24 18:30:48 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

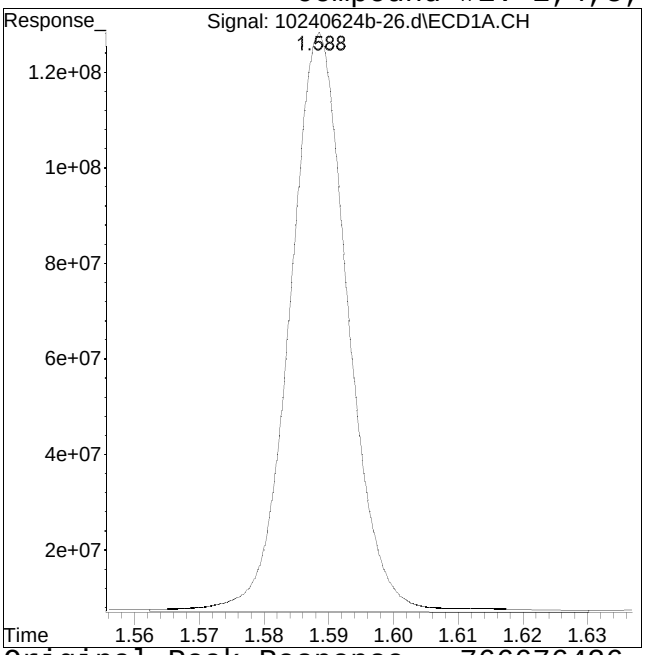
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



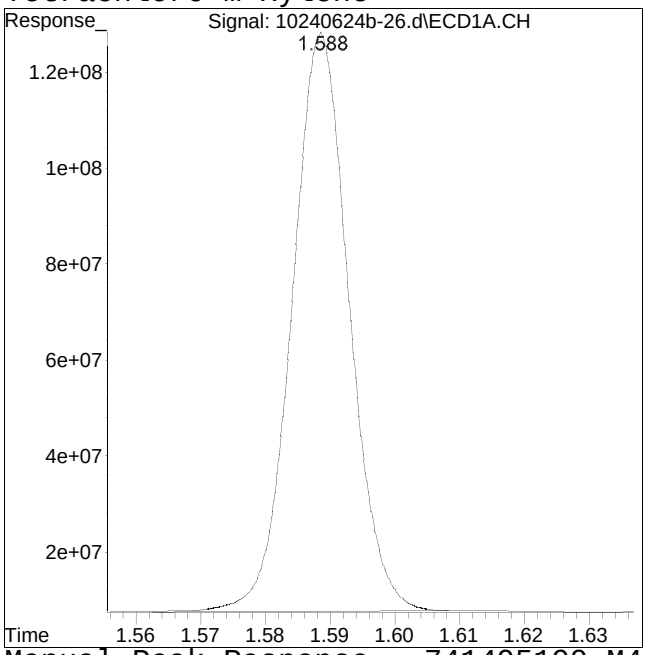
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240624QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240624b-26.d Operator : PEST10:emr
Date Inj'd : 6/24/2024 20:31 Instrument : Pest 10
Sample : L2434679-09,42,, Quant Date : 6/25/2024 8:59 am

Compound #2: 2,4,5,6-Tetrachloro-m-xylene



Original Peak Response = 766676426



Manual Peak Response = 741495190 M4

M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest10\2024\240624B\
Data File : 10240624b-27.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 24 Jun 2024 20:42
Operator : PEST10:emr
Sample : L2434679-10,42,,
Misc : wg1938709,WG1938134,ical21109
ALS Vial : 27 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 25 08:59:09 2024
Quant Method : I:\PEST\Pest10\2024\240624B\pest10_2024_05_02_ugL_ical21109.m
Quant Title : pest
QLast Update : Mon Jun 24 18:30:48 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PEST\Pest10\2024\240624B\10240624b-03.d
Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Internal Standards							
1) i	1-br-2-nb_Pe	1.252	1.367	594.4E6	171.0E6	25.000	25.000
	Standard Area 1 : #1 = 521435419				Recovery =	113.99%	
	Standard Area 1 : #2 = 149552544				Recovery =	114.34%	
28) i	1-br-2-nb_Ch	1.252	1.367	594.4E6	171.0E6	25.000	25.000
33) i	1-br-2-nb_To	1.252	1.367	594.4E6	171.0E6	25.000	25.000
System Monitoring Compounds							
2) s	2,4,5,6-Tetr	1.588	1.847	770.6E6	209.1E6	29.867	32.523
	Spiked Amount 50.000	Range 30 - 150			Recovery =	59.73%	65.05%
27) s	Decachlorobi	6.220	6.931	780.1E6	190.5E6	40.432	38.333
	Spiked Amount 50.000	Range 30 - 150			Recovery =	80.86%	76.67%
Target Compounds							
4) t	alpha-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5) t	gamma-BHC (l	0.000	0.000	0	0	N.D. d	N.D. d
6) t	beta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7) t	delta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
8) t	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
9) t	Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
12) t	Heptachlor E	0.000	0.000	0	0	N.D. d	N.D. d
13) t	gamma-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
14) t	alpha-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
15) t	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
16) t	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
17) t	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
18) t	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
19) t	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
20) t	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
21) t	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
22) t	Endrin Aldeh	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\PEST\Pest10\2024\240624B\
Data File : 10240624b-27.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 24 Jun 2024 20:42
Operator : PEST10:emr
Sample : L2434679-10,42,,
Misc : wg1938709,WG1938134,ical21109
ALS Vial : 27 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 25 08:59:09 2024
Quant Method : I:\PEST\Pest10\2024\240624B\pest10_2024_05_02_ugL_ical21109.m
Quant Title : pest
QLast Update : Mon Jun 24 18:30:48 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PEST\Pest10\2024\240624B\10240624b-03.d
Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
23) t	Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d
25) t	Endosulfan S	0.000	0.000	0	0	N.D. d	N.D. d
26) t	Endrin Keton	0.000	0.000	0	0	N.D. d	N.D. d
29) l1	chlordane-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l1	chlordane-3	0.000	0.000	0	0	N.D. d	N.D. d
31) l1	chlordane-4	0.000	0.000	0	0	N.D. d	N.D. d
32) l1	chlordane-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	chlordane-1			0	0	N.D.	N.D.
Average	chlordane-1					0.000	0.000
34) l2	toxaphene-1	0.000	0.000	0	0	N.D. d	N.D. d
35) l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
36) l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
37) l2	toxaphene-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000
SemiQuant Compounds - Not Calibrated on this Instrument							
Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

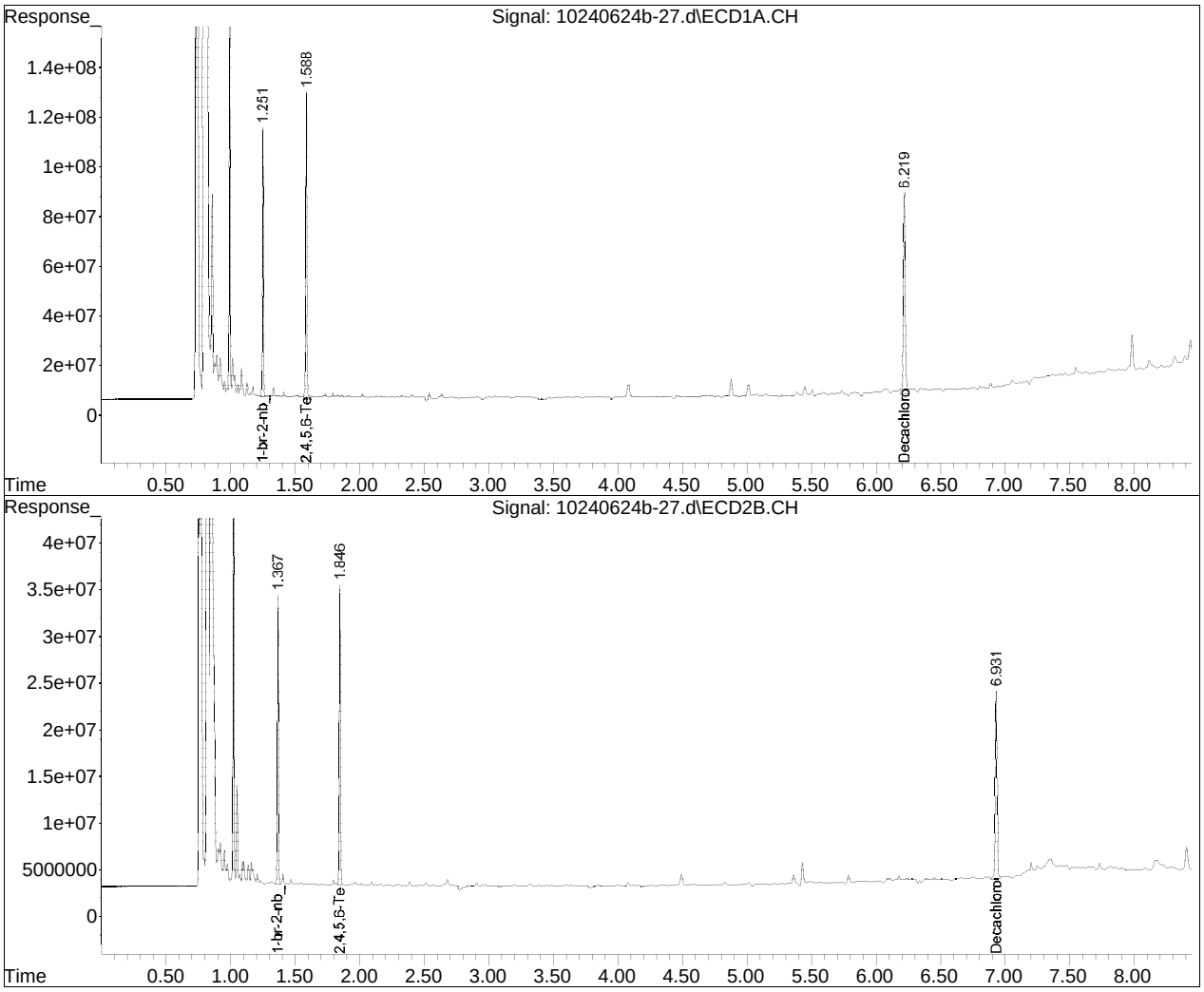
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listedB\10240624b-03.d•

Data Path : I:\PEST\Pest10\2024\240624B\
Data File : 10240624b-27.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 24 Jun 2024 20:42
Operator : PEST10:emr
Sample : L2434679-10,42,,
Misc : wg1938709,WG1938134,ical21109
ALS Vial : 27 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 25 08:59:09 2024
Quant Method : I:\PEST\Pest10\2024\240624B\pest10_2024_05_02_ugL_ical21109.m
Quant Title : pest
QLast Update : Mon Jun 24 18:30:48 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



Manual Integration Report

Data Path	: I:\PEST\Pest10\2024\240624	QMethod	: pest10_2024_05_02_ugL_ic
Data File	: 10240624b-27.d	Operator	: PEST10:emr
Date Inj'd	: 6/24/2024 20:42	Instrument	: Pest 10
Sample	: L2434679-10,42,,	Quant Date	: 6/25/2024 8:59 am

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest10\2024\240624B\
Data File : 10240624b-28.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 24 Jun 2024 20:53
Operator : PEST10:emr
Sample : L2434679-11,42,,
Misc : wg1938709,WG1938134,ical21109
ALS Vial : 28 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 25 08:59:15 2024
Quant Method : I:\PEST\Pest10\2024\240624B\pest10_2024_05_02_ugL_ical21109.m
Quant Title : pest
QLast Update : Mon Jun 24 18:30:48 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PEST\Pest10\2024\240624B\10240624b-03.d
Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Internal Standards							
1) i	1-br-2-nb_Pe	1.253	1.367	574.8E6	165.2E6	25.000	25.000
	Standard Area 1 : #1 = 521435419				Recovery =	110.24%	
	Standard Area 1 : #2 = 149552544				Recovery =	110.49%	
28) i	1-br-2-nb_Ch	1.253	1.367	574.8E6	165.2E6	25.000	25.000
33) i	1-br-2-nb_To	1.253	1.367	574.8E6	165.2E6	25.000	25.000
System Monitoring Compounds							
2) s	2,4,5,6-Tetr	1.589	1.847	776.6E6	216.7E6	31.121M4	34.882
	Spiked Amount 50.000	Range 30 - 150			Recovery =	62.24%	69.76%
27) s	Decachlorobi	6.221	6.932	833.0E6	202.8E6	44.736	42.321
	Spiked Amount 50.000	Range 30 - 150			Recovery =	89.47%	84.64%
Target Compounds							
4) t	alpha-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5) t	gamma-BHC (l	0.000	0.000	0	0	N.D. d	N.D. d
6) t	beta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7) t	delta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
8) t	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
9) t	Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
12) t	Heptachlor E	0.000	0.000	0	0	N.D. d	N.D. d
13) t	gamma-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
14) t	alpha-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
15) t	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
16) t	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
17) t	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
18) t	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
19) t	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
20) t	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
21) t	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\PEST\Pest10\2024\240624B\
Data File : 10240624b-28.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 24 Jun 2024 20:53
Operator : PEST10:emr
Sample : L2434679-11,42,,
Misc : wg1938709,WG1938134,ical21109
ALS Vial : 28 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 25 08:59:15 2024
Quant Method : I:\PEST\Pest10\2024\240624B\pest10_2024_05_02_ugL_ical21109.m
Quant Title : pest
QLast Update : Mon Jun 24 18:30:48 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PEST\Pest10\2024\240624B\10240624b-03.d
Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
22) t	Endrin Aldeh	0.000	0.000	0	0	N.D. d	N.D. d
23) t	Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d
25) t	Endosulfan S	0.000	0.000	0	0	N.D. d	N.D. d
26) t	Endrin Keton	0.000	0.000	0	0	N.D. d	N.D. d
29) l1	chlordane-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l1	chlordane-3	0.000	0.000	0	0	N.D. d	N.D. d
31) l1	chlordane-4	0.000	0.000	0	0	N.D. d	N.D. d
32) l1	chlordane-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	chlordane-1			0	0	N.D.	N.D.
Average	chlordane-1					0.000	0.000
34) l2	toxaphene-1	0.000	0.000	0	0	N.D. d	N.D. d
35) l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
36) l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
37) l2	toxaphene-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000
SemiQuant Compounds - Not Calibrated on this Instrument							
Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

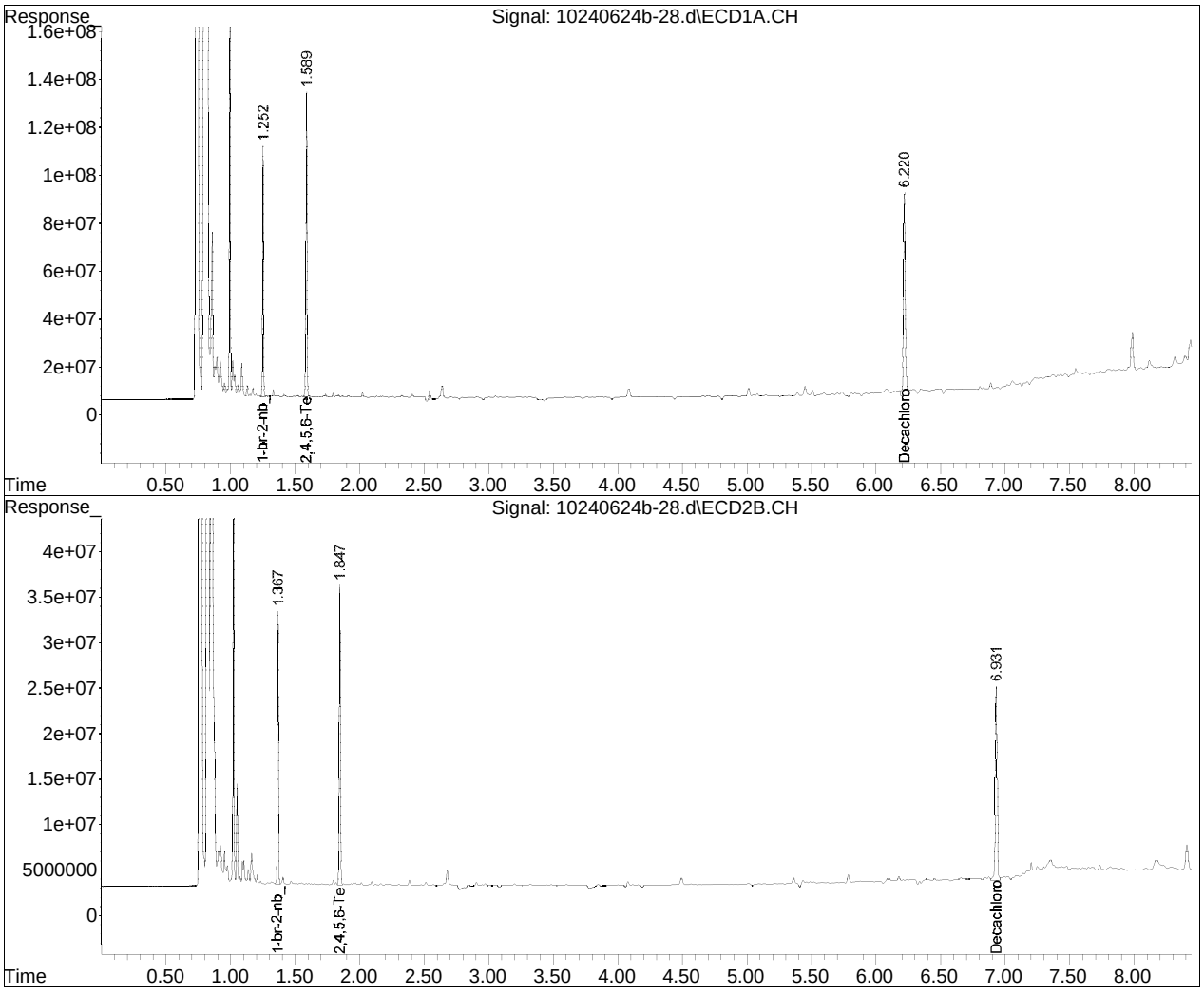
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listedB\10240624b-03.d•

Data Path : I:\PEST\Pest10\2024\240624B\
Data File : 10240624b-28.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 24 Jun 2024 20:53
Operator : PEST10:emr
Sample : L2434679-11,42,,
Misc : wg1938709,WG1938134,ical21109
ALS Vial : 28 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 25 08:59:15 2024
Quant Method : I:\PEST\Pest10\2024\240624B\pest10_2024_05_02_ugL_ical21109.m
Quant Title : pest
QLast Update : Mon Jun 24 18:30:48 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

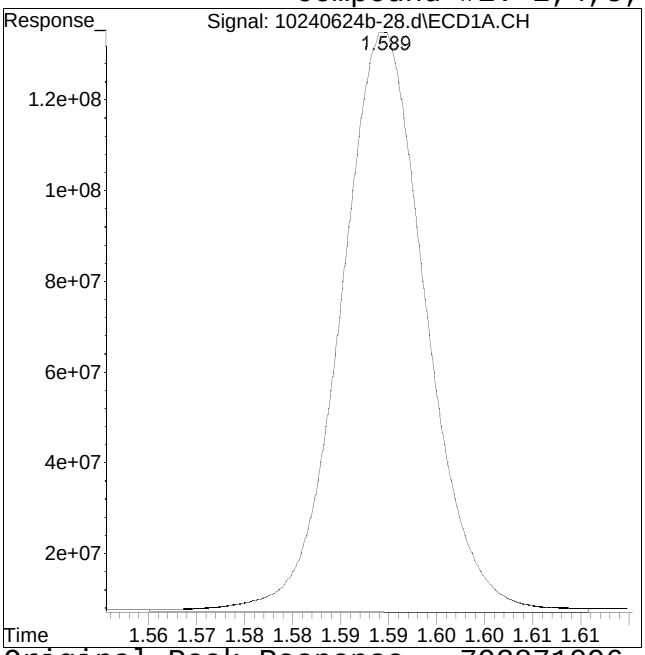
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

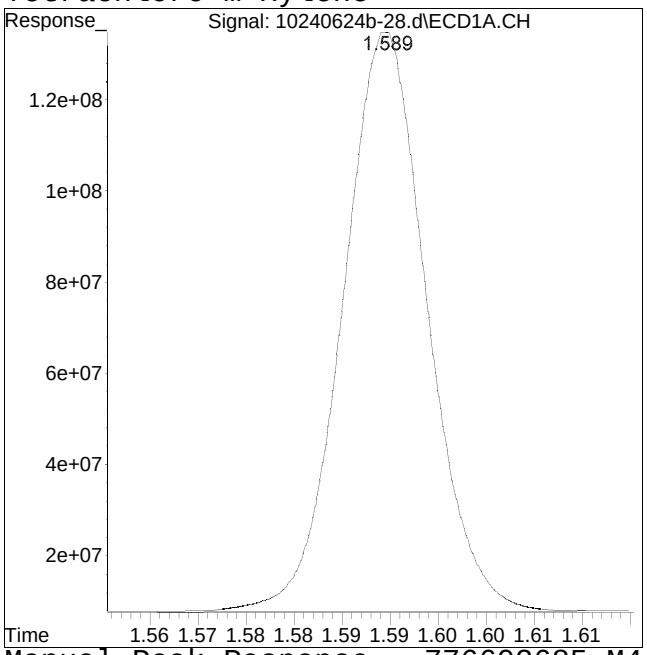


Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240624QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240624b-28.d Operator : PEST10:emr
Date Inj'd : 6/24/2024 20:53 Instrument : Pest 10
Sample : L2434679-11,42,, Quant Date : 6/25/2024 8:59 am

Compound #2: 2,4,5,6-Tetrachloro-m-xylene





Original Peak Response = 793871096 Manual Peak Response = 776602685 M4
M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest10\2024\240624B\
Data File : 10240624b-29.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 24 Jun 2024 21:04
Operator : PEST10:emr
Sample : L2434679-12,42,,
Misc : wg1938709,WG1938134,ical21109
ALS Vial : 29 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 25 08:59:17 2024
Quant Method : I:\PEST\Pest10\2024\240624B\pest10_2024_05_02_ugL_ical21109.m
Quant Title : pest
QLast Update : Mon Jun 24 18:30:48 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PEST\Pest10\2024\240624B\10240624b-03.d
Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Internal Standards							
1) i	1-br-2-nb_Pe	1.252	1.367	517.5E6	151.8E6	25.000	25.000
	Standard Area 1 : #1 = 521435419				Recovery =	99.24%	
	Standard Area 1 : #2 = 149552544				Recovery =	101.53%	
28) i	1-br-2-nb_Ch	1.252	1.367	517.5E6	151.8E6	25.000	25.000
33) i	1-br-2-nb_To	1.252	1.367	517.5E6	151.8E6	25.000	25.000
System Monitoring Compounds							
2) s	2,4,5,6-Tetr	1.589	1.847	777.8E6	211.3E6	34.622	37.006
	Spiked Amount 50.000	Range 30 - 150			Recovery =	69.24%	74.01%
27) s	Decachlorobi	6.220	6.932	461.8E6	113.4E6	27.178	25.381
	Spiked Amount 50.000	Range 30 - 150			Recovery =	54.36%	50.76%
Target Compounds							
4) t	alpha-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5) t	gamma-BHC (l	0.000	0.000	0	0	N.D. d	N.D. d
6) t	beta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7) t	delta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
8) t	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
9) t	Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
12) t	Heptachlor E	0.000	0.000	0	0	N.D. d	N.D. d
13) t	gamma-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
14) t	alpha-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
15) t	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
16) t	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
17) t	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
18) t	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
19) t	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
20) t	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
21) t	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
22) t	Endrin Aldeh	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest10\2024\240624B\
Data File : 10240624b-29.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 24 Jun 2024 21:04
Operator : PEST10:emr
Sample : L2434679-12,42,,
Misc : wg1938709,WG1938134,ical21109
ALS Vial : 29 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 25 08:59:17 2024
Quant Method : I:\PEST\Pest10\2024\240624B\pest10_2024_05_02_ugL_ical21109.m
Quant Title : pest
QLast Update : Mon Jun 24 18:30:48 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PEST\Pest10\2024\240624B\10240624b-03.d
Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
23) t	Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d
25) t	Endosulfan S	0.000	0.000	0	0	N.D. d	N.D. d
26) t	Endrin Keton	0.000	0.000	0	0	N.D. d	N.D. d
29) l1	chlordane-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l1	chlordane-3	0.000	0.000	0	0	N.D. d	N.D. d
31) l1	chlordane-4	0.000	0.000	0	0	N.D. d	N.D. d
32) l1	chlordane-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	chlordane-1			0	0	N.D.	N.D.
Average	chlordane-1					0.000	0.000
34) l2	toxaphene-1	0.000	0.000	0	0	N.D. d	N.D. d
35) l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
36) l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
37) l2	toxaphene-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000
SemiQuant Compounds - Not Calibrated on this Instrument							
Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

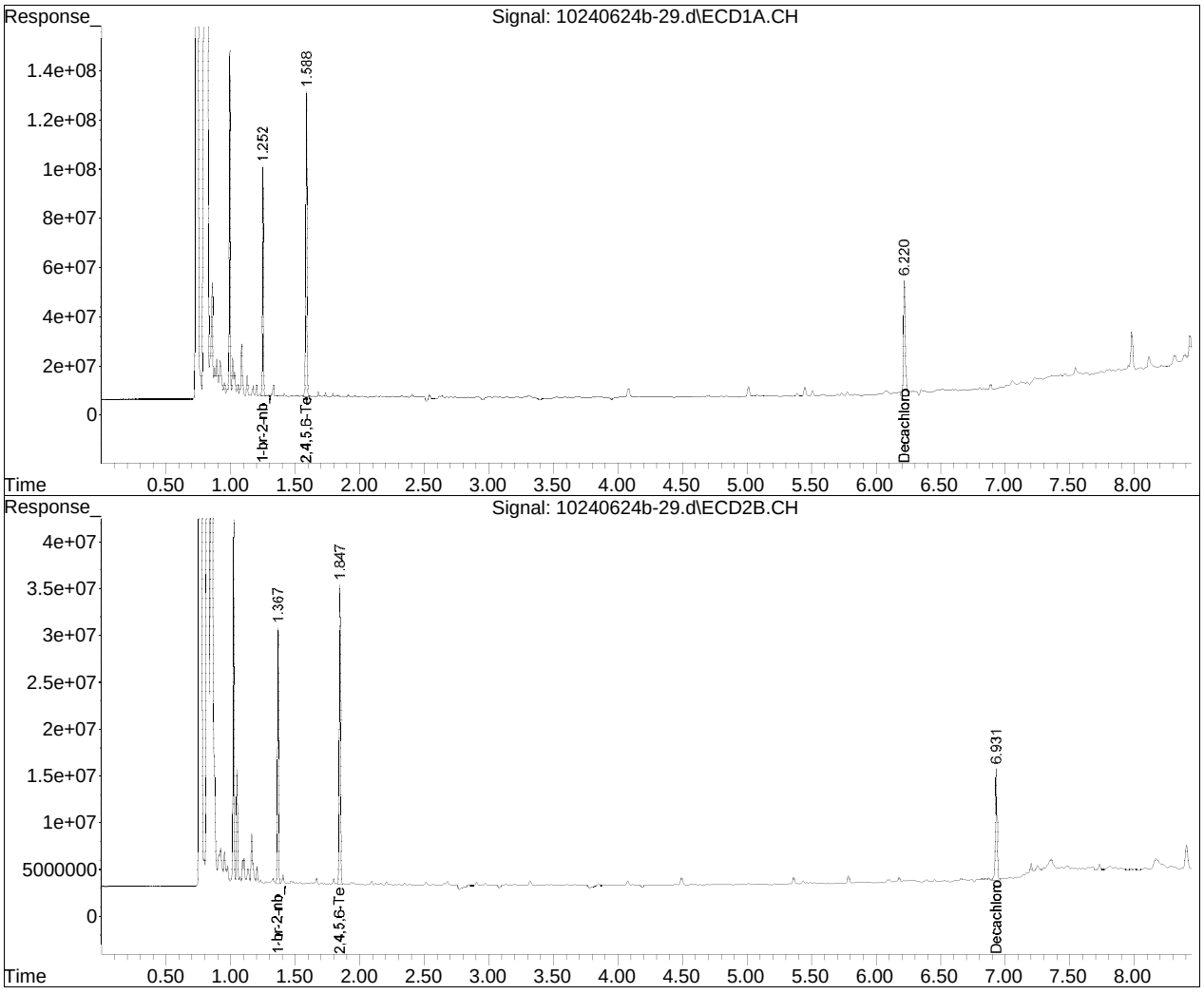
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listedB\10240624b-03.d•

Data Path : I:\PEST\Pest10\2024\240624B\
Data File : 10240624b-29.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 24 Jun 2024 21:04
Operator : PEST10:emr
Sample : L2434679-12,42,,
Misc : wg1938709,WG1938134,ical21109
ALS Vial : 29 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 25 08:59:17 2024
Quant Method : I:\PEST\Pest10\2024\240624B\pest10_2024_05_02_ugL_ical21109.m
Quant Title : pest
QLast Update : Mon Jun 24 18:30:48 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



Manual Integration Report

Data Path	: I:\PEST\Pest10\2024\240624	QMethod	: pest10_2024_05_02_ugL_ic
Data File	: 10240624b-29.d	Operator	: PEST10:emr
Date Inj'd	: 6/24/2024 21:04	Instrument	: Pest 10
Sample	: L2434679-12,42,,	Quant Date	: 6/25/2024 8:59 am

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest10\2024\240624B\
Data File : 10240624b-30.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 24 Jun 2024 21:16
Operator : PEST10:emr
Sample : L2434679-14,42,,
Misc : wg1938709,WG1938134,ical21109
ALS Vial : 30 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 25 08:59:21 2024
Quant Method : I:\PEST\Pest10\2024\240624B\pest10_2024_05_02_ugL_ical21109.m
Quant Title : pest
QLast Update : Mon Jun 24 18:30:48 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PEST\Pest10\2024\240624B\10240624b-03.d
Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Internal Standards							
1) i	1-br-2-nb_Pe	1.253	1.367	595.3E6	172.1E6	25.000	25.000
	Standard Area 1 : #1 = 521435419				Recovery =	114.16%	
	Standard Area 1 : #2 = 149552544				Recovery =	115.08%	
28) i	1-br-2-nb_Ch	1.253	1.367	595.3E6	172.1E6	25.000	25.000
33) i	1-br-2-nb_To	1.253	1.367	595.3E6	172.1E6	25.000	25.000
System Monitoring Compounds							
2) s	2,4,5,6-Tetr	1.590	1.847	794.1E6	218.9E6	30.728	33.832
	Spiked Amount 50.000	Range 30 - 150		Recovery =	61.46%	67.66%	
27) s	Decachlorobi	6.221	6.931	784.1E6	194.8E6	40.581	38.961
	Spiked Amount 50.000	Range 30 - 150		Recovery =	81.16%	77.92%	
Target Compounds							
4) t	alpha-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5) t	gamma-BHC (l	0.000	0.000	0	0	N.D. d	N.D. d
6) t	beta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7) t	delta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
8) t	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
9) t	Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
12) t	Heptachlor E	0.000	0.000	0	0	N.D. d	N.D. d
13) t	gamma-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
14) t	alpha-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
15) t	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
16) t	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
17) t	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
18) t	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
19) t	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
20) t	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
21) t	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
22) t	Endrin Aldeh	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\PEST\Pest10\2024\240624B\
Data File : 10240624b-30.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 24 Jun 2024 21:16
Operator : PEST10:emr
Sample : L2434679-14,42,,
Misc : wg1938709,WG1938134,ical21109
ALS Vial : 30 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 25 08:59:21 2024
Quant Method : I:\PEST\Pest10\2024\240624B\pest10_2024_05_02_ugL_ical21109.m
Quant Title : pest
QLast Update : Mon Jun 24 18:30:48 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PEST\Pest10\2024\240624B\10240624b-03.d
Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
23) t	Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d
25) t	Endosulfan S	0.000	0.000	0	0	N.D. d	N.D. d
26) t	Endrin Keton	0.000	0.000	0	0	N.D. d	N.D. d
29) l1	chlordane-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l1	chlordane-3	0.000	0.000	0	0	N.D. d	N.D. d
31) l1	chlordane-4	0.000	0.000	0	0	N.D. d	N.D. d
32) l1	chlordane-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	chlordane-1			0	0	N.D.	N.D.
Average	chlordane-1					0.000	0.000
34) l2	toxaphene-1	0.000	0.000	0	0	N.D. d	N.D. d
35) l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
36) l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
37) l2	toxaphene-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000
SemiQuant Compounds - Not Calibrated on this Instrument							
Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

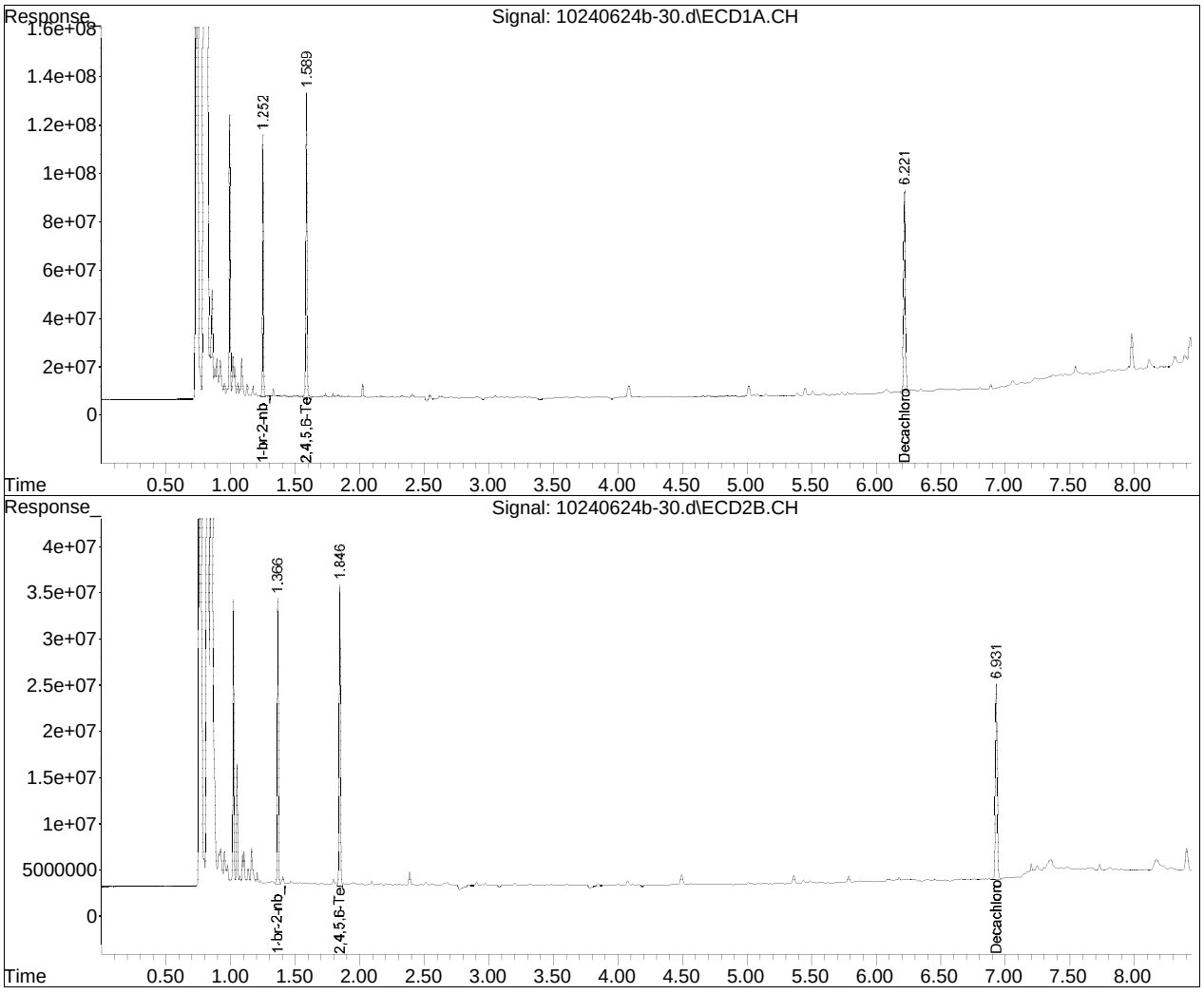
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listedB\10240624b-03.d•

Data Path : I:\PEST\Pest10\2024\240624B\
Data File : 10240624b-30.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 24 Jun 2024 21:16
Operator : PEST10:emr
Sample : L2434679-14,42,,
Misc : wg1938709,WG1938134,ical21109
ALS Vial : 30 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 25 08:59:21 2024
Quant Method : I:\PEST\Pest10\2024\240624B\pest10_2024_05_02_ugL_ical21109.m
Quant Title : pest
QLast Update : Mon Jun 24 18:30:48 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



Manual Integration Report

Data Path	: I:\PEST\Pest10\2024\240624	QMethod	: pest10_2024_05_02_ugL_ic
Data File	: 10240624b-30.d	Operator	: PEST10:emr
Date Inj'd	: 6/24/2024 21:16	Instrument	: Pest 10
Sample	: L2434679-14,42,,	Quant Date	: 6/25/2024 8:59 am

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest10\2024\240626B\
Data File : 10240626b-22.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 26 Jun 2024 21:02
Operator : PEST10:peg
Sample : L2434679-01,42,,
Misc : wg1939871,WG1939408,ical21109
ALS Vial : 22 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 27 06:56:29 2024
Quant Method : I:\PEST\Pest10\2024\240626B\pest10_2024_05_02_ugL_ical21109.m
Quant Title : pest
QLast Update : Thu Jun 27 06:53:33 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PEST\Pest10\2024\240626B\10240626b-03.d
Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Internal Standards							
1) i	1-br-2-nb_Pe	1.249	1.364	562.4E6	157.6E6	25.000M4	25.000
	Standard Area 1 : #1 = 558962350				Recovery = 100.62%		
	Standard Area 1 : #2 = 147960276				Recovery = 106.50%		
28) i	1-br-2-nb_Ch	1.249	1.364	562.4E6	157.6E6	25.000M4	25.000
33) i	1-br-2-nb_To	1.249	1.364	562.4E6	157.6E6	25.000M4	25.000
System Monitoring Compounds							
2) s	2,4,5,6-Tetr	1.585	1.842	860.7E6	230.5E6	35.252M4	38.909M4
	Spiked Amount 50.000	Range 30 - 150			Recovery = 70.50%		77.82%
27) s	Decachlorobi	6.213	6.931	797.7E6	192.5E6	43.768M4	42.125M4
	Spiked Amount 50.000	Range 30 - 150			Recovery = 87.54%		84.25%
Target Compounds							
4) t	alpha-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5) t	gamma-BHC (l	0.000	0.000	0	0	N.D. d	N.D. d
6) t	beta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7) t	delta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
8) t	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
9) t	Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
12) t	Heptachlor E	0.000	0.000	0	0	N.D. d	N.D. d
13) t	gamma-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
14) t	alpha-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
15) t	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
16) t	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
17) t	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\PEST\Pest10\2024\240626B\
Data File : 10240626b-22.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 26 Jun 2024 21:02
Operator : PEST10:peg
Sample : L2434679-01,42,,
Misc : wg1939871,WG1939408,ical21109
ALS Vial : 22 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 27 06:56:29 2024
Quant Method : I:\PEST\Pest10\2024\240626B\pest10_2024_05_02_ugL_ical21109.m
Quant Title : pest
QLast Update : Thu Jun 27 06:53:33 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PEST\Pest10\2024\240626B\10240626b-03.d
Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
18) t	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
19) t	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
20) t	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
21) t	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
22) t	Endrin Aldeh	0.000	0.000	0	0	N.D. d	N.D. d
23) t	Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d
25) t	Endosulfan S	0.000	0.000	0	0	N.D. d	N.D. d
26) t	Endrin Keton	0.000	0.000	0	0	N.D. d	N.D. d
29) l1	chlordane-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l1	chlordane-3	0.000	0.000	0	0	N.D. d	N.D. d
31) l1	chlordane-4	0.000	0.000	0	0	N.D. d	N.D. d
32) l1	chlordane-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	chlordane-1			0	0	N.D.	N.D.
Average	chlordane-1					0.000	0.000
34) l2	toxaphene-1	0.000	0.000	0	0	N.D. d	N.D. d
35) l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
36) l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
37) l2	toxaphene-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000
SemiQuant	Compounds - Not Calibrated on this Instrument						
Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

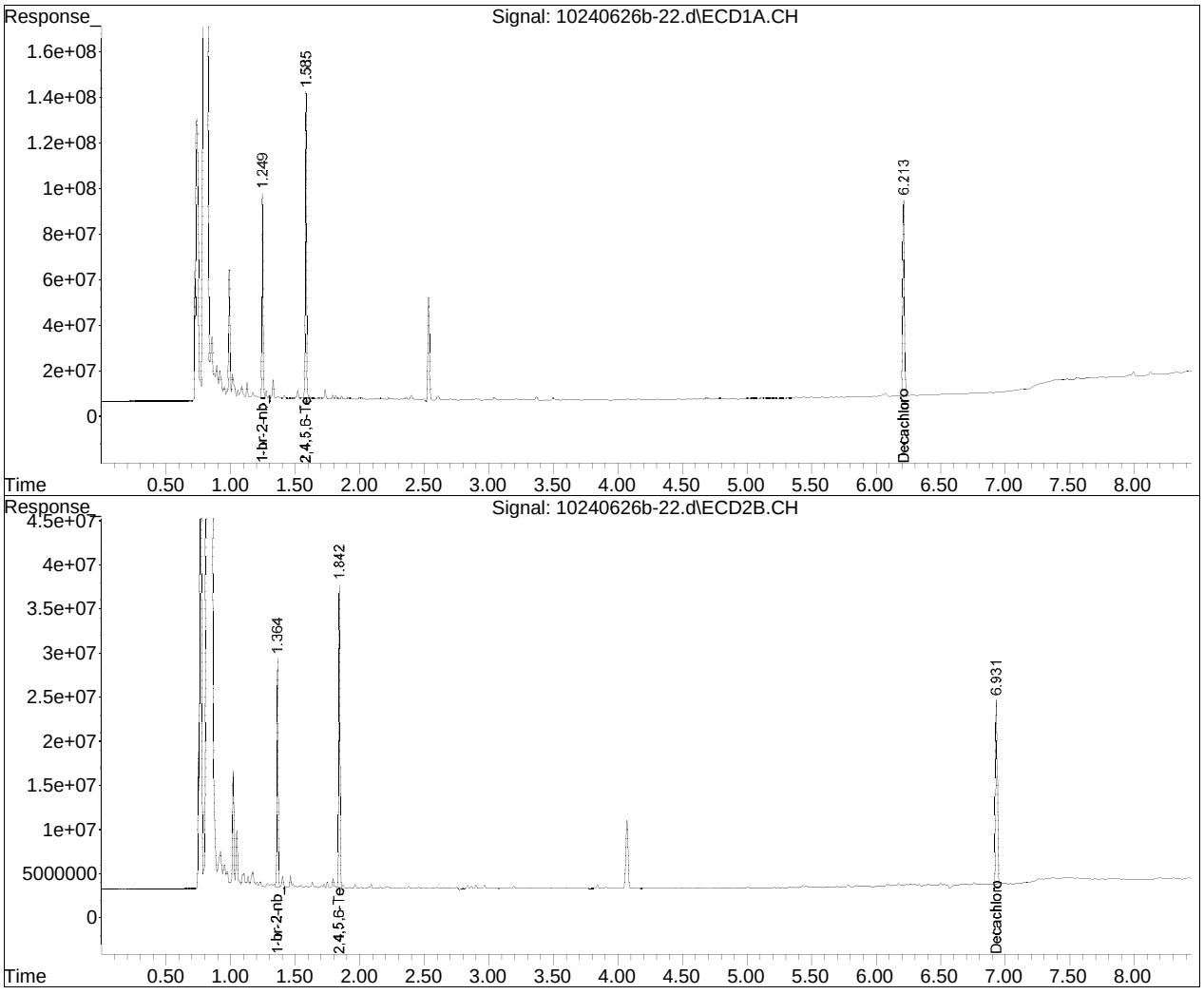
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listedB\10240626b-03.d•

Data Path : I:\PEST\Pest10\2024\240626B\
Data File : 10240626b-22.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 26 Jun 2024 21:02
Operator : PEST10:peg
Sample : L2434679-01,42,,
Misc : wg1939871,WG1939408,ical21109
ALS Vial : 22 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 27 06:56:29 2024
Quant Method : I:\PEST\Pest10\2024\240626B\pest10_2024_05_02_ugL_ical21109.m
Quant Title : pest
QLast Update : Thu Jun 27 06:53:33 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

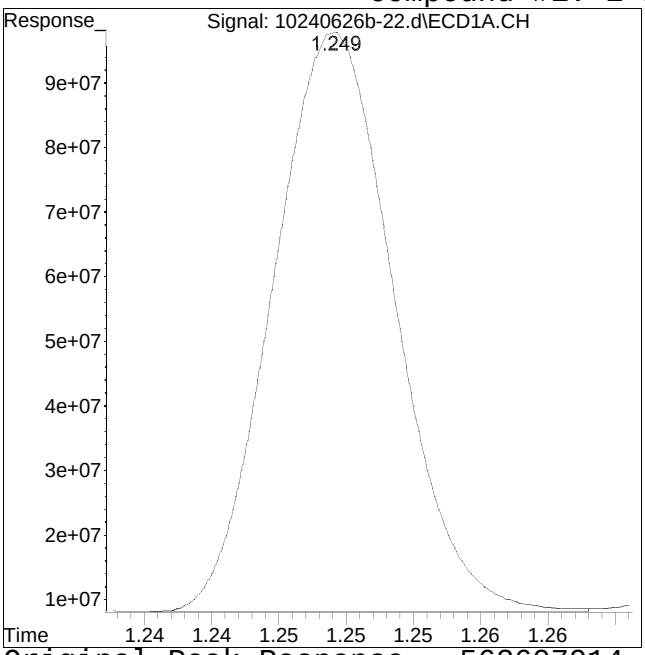
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



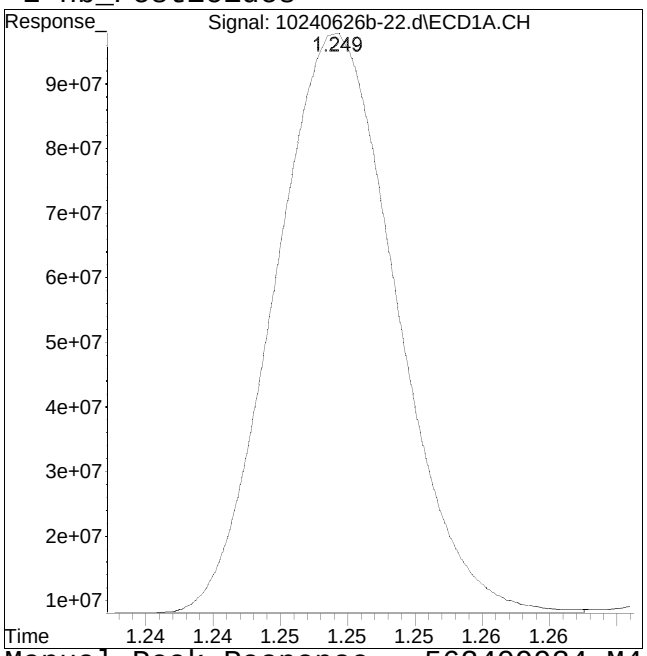
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240626QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240626b-22.d Operator : PEST10:peg
Date Inj'd : 6/26/2024 21:02 Instrument : Pest 10
Sample : L2434679-01,42,, Quant Date : 6/27/2024 6:56 am

Compound #1: 1-br-2-nb_Pesticides



Original Peak Response = 562607914



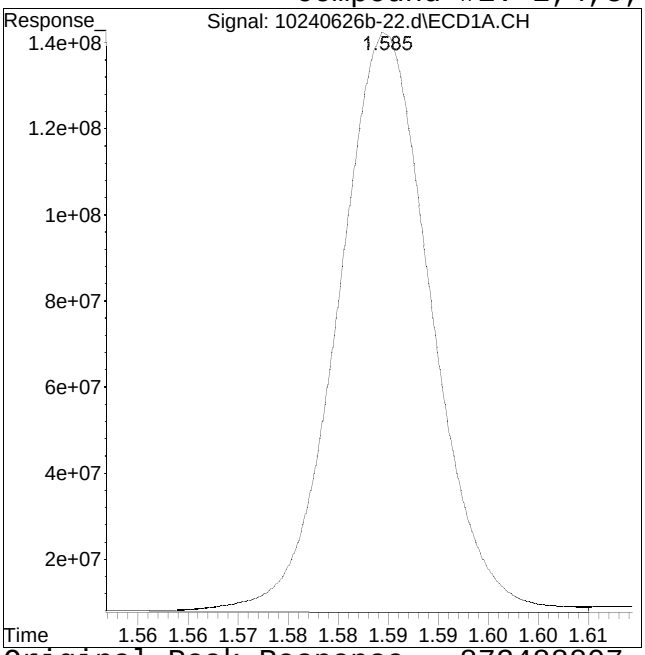
Manual Peak Response = 562409934 M4

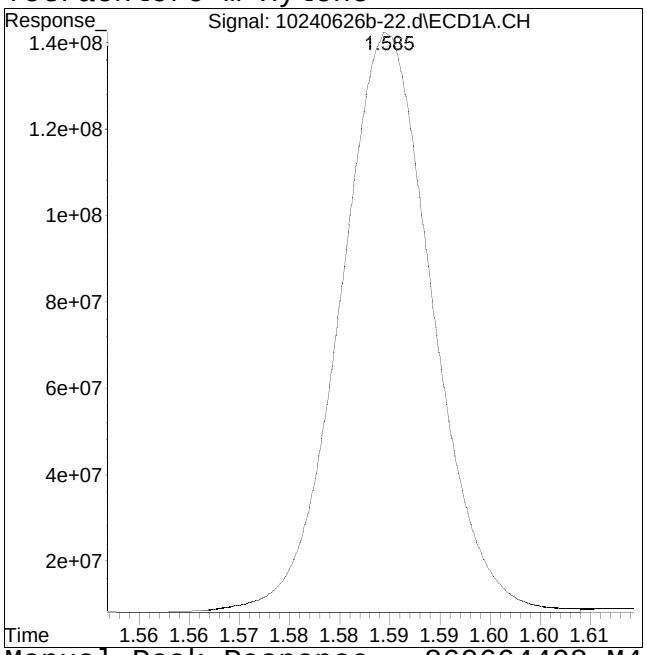
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240626QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240626b-22.d Operator : PEST10:peg
Date Inj'd : 6/26/2024 21:02 Instrument : Pest 10
Sample : L2434679-01,42,, Quant Date : 6/27/2024 6:56 am

Compound #2: 2,4,5,6-Tetrachloro-m-xylene



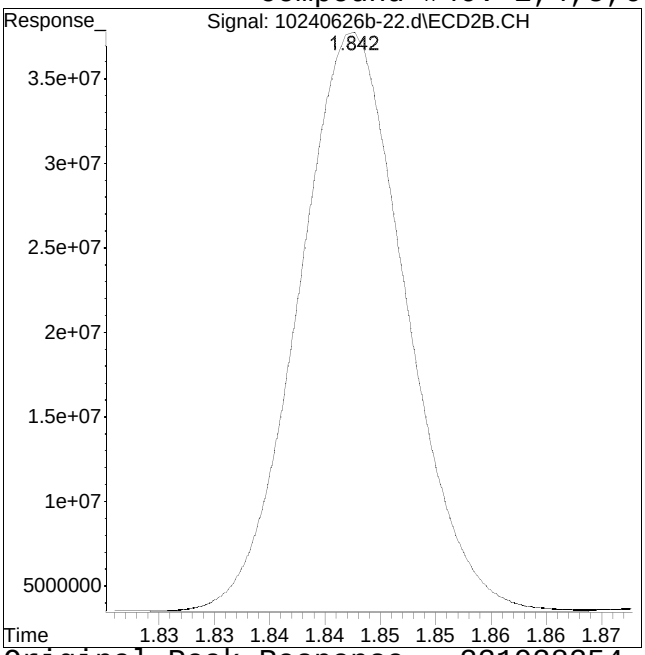


Original Peak Response = 873488807 Manual Peak Response = 860664408 M4
M4 = Poor automated baseline construction.

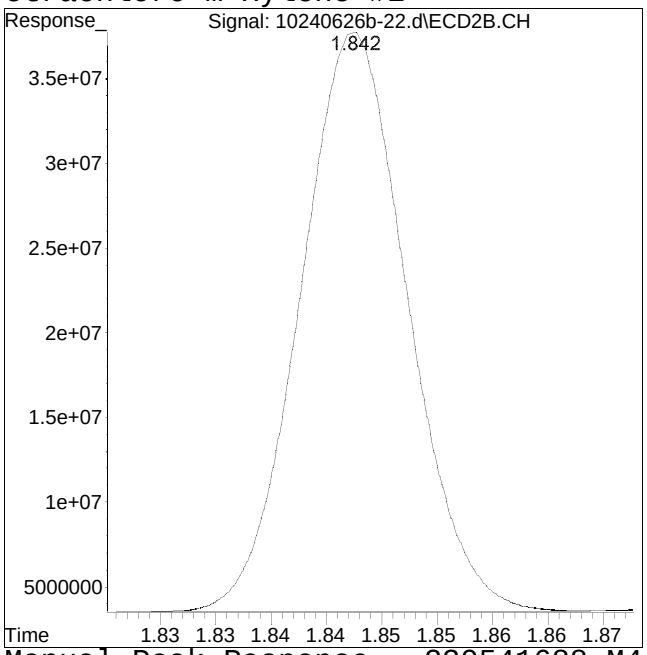
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240626QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240626b-22.d Operator : PEST10:peg
Date Inj'd : 6/26/2024 21:02 Instrument : Pest 10
Sample : L2434679-01,42,, Quant Date : 6/27/2024 6:56 am

Compound #40: 2,4,5,6-Tetrachloro-m-xylene #2



Original Peak Response = 231938354



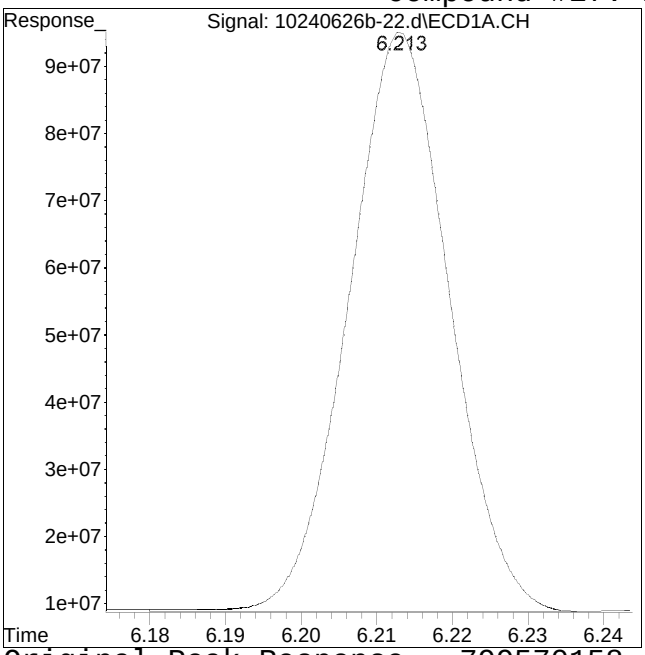
Manual Peak Response = 230541688 M4

M4 = Poor automated baseline construction.

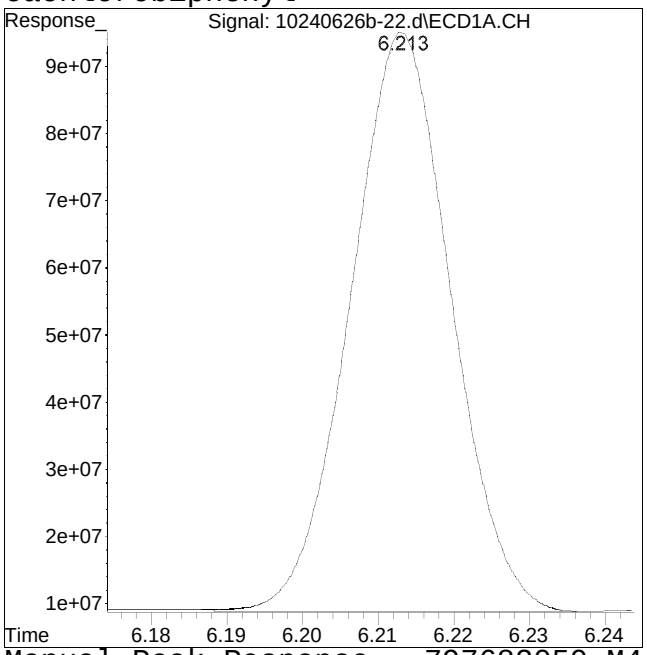
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240626QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240626b-22.d Operator : PEST10:peg
Date Inj'd : 6/26/2024 21:02 Instrument : Pest 10
Sample : L2434679-01,42,, Quant Date : 6/27/2024 6:56 am

Compound #27: Decachlorobiphenyl



Original Peak Response = 799570158

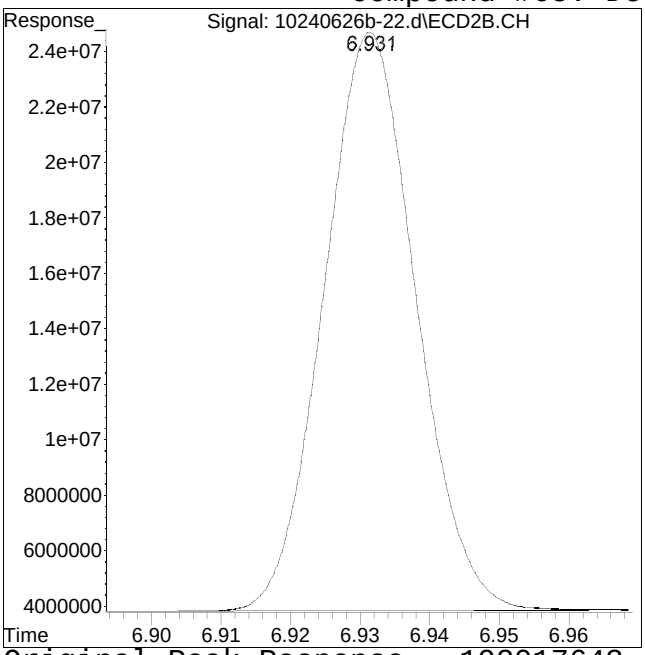


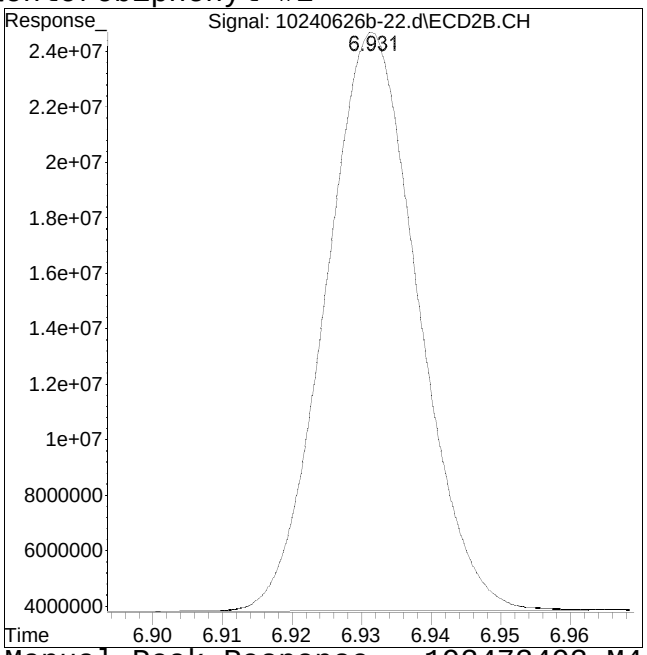
Manual Peak Response = 797682050 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240626QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240626b-22.d Operator : PEST10:peg
Date Inj'd : 6/26/2024 21:02 Instrument : Pest 10
Sample : L2434679-01,42,, Quant Date : 6/27/2024 6:56 am

Compound #65: Decachlorobiphenyl #2



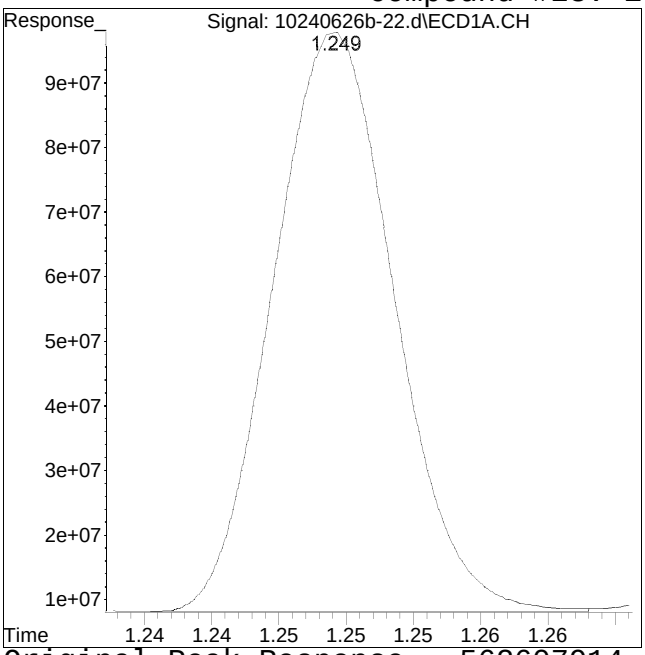


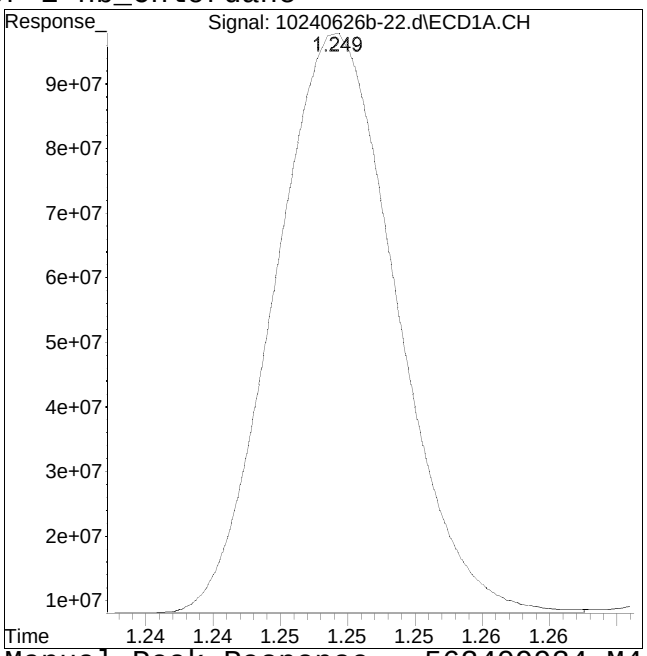
Original Peak Response = 192017643 Manual Peak Response = 192473493 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240626QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240626b-22.d Operator : PEST10:peg
Date Inj'd : 6/26/2024 21:02 Instrument : Pest 10
Sample : L2434679-01,42,, Quant Date : 6/27/2024 6:56 am

Compound #28: 1-br-2-nb_Chlordane



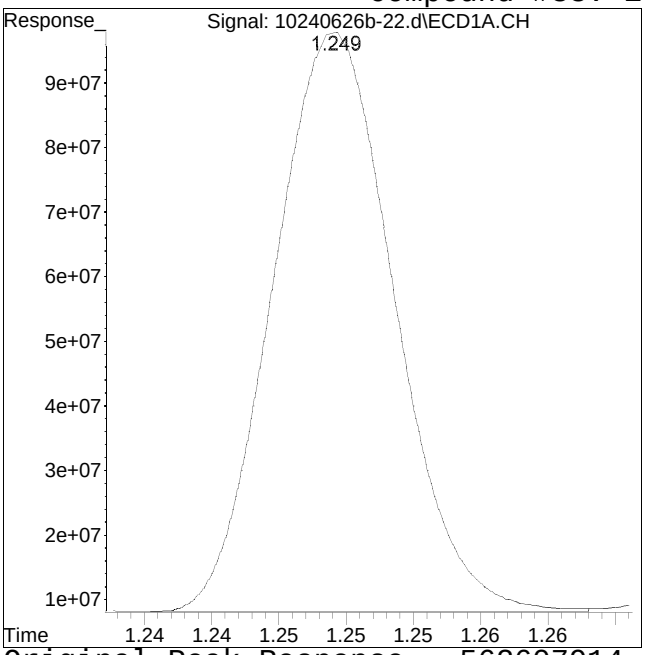


Original Peak Response = 562607914 Manual Peak Response = 562409934 M4
M4 = Poor automated baseline construction.

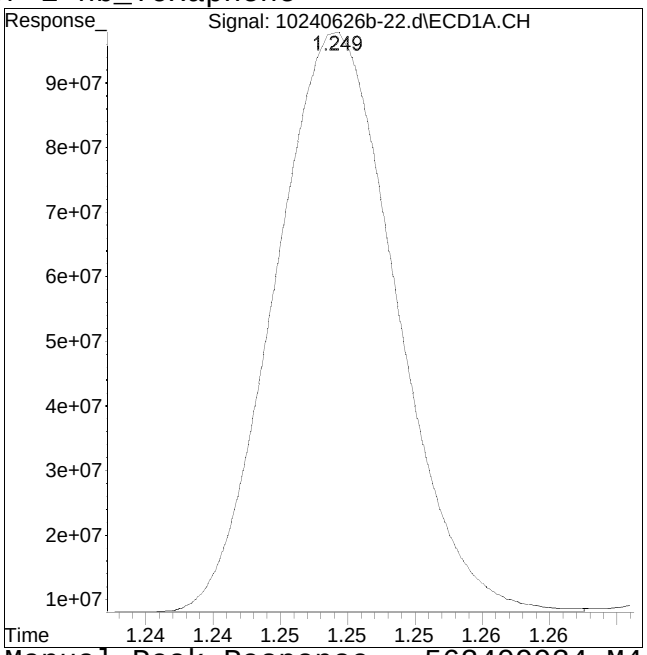
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240626QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240626b-22.d Operator : PEST10:peg
Date Inj'd : 6/26/2024 21:02 Instrument : Pest 10
Sample : L2434679-01,42,, Quant Date : 6/27/2024 6:56 am

Compound #33: 1-br-2-nb_Toxaphene



Original Peak Response = 562607914



Manual Peak Response = 562409934 M4

M4 = Poor automated baseline construction.

Pesticides Standards Data

Initial Calibration

Initial Calibration Summary
Form 6
Pesticides

Client	**: Alpha Geoscience**	**Lab Number**	**: L2434679**
Project Name	**: RANCO MINE**	**Project Number**	**: 12123**
Instrument ID	**: PEST10**	**Ical Ref**	**: ICAL21109**
Calibration dates	**: 05/02/24 16:08 05/02/24 20:22**		

Calibration Files

1 =10240502i-03.d 2 =10240502i-04.d 3 =10240502i-22.d 4 =10240502i-23.d 5 =10240502i-07.d

7 =10240502i-24.d 8 =10240502i-09.d 9 =10240502i-10.d 10 =10240502i-11.d 11 =10240502i-12.d

		Compound	1	2	3	4	5	7	8	9	10	11	Avg		%RSD
1)	i	1-br-2-nb_Pesticides	----------ISTD----------												
2)	s	2,4,5,6-Tetrachloro-m-xylene		1.285	1.171	1.153	1.169	1.034	0.989	0.993	0.987	0.986	1.085		10.25
3)	t	Hexachlorobenzene		1.342	1.269	1.245	1.250	1.124	1.052	1.049	1.044	1.063	1.160		10.04
4)	t	alpha-BHC		1.510	1.477	1.473	1.497	1.432	1.492	1.532	1.562	1.618	1.510		3.62
5)	t	gamma-BHC (li	1.656	1.446	1.412	1.414	1.426	1.341	1.362	1.389	1.409	1.460	1.431		6.06
6)	t	beta-BHC		0.747	0.702	0.697	0.695	0.622	0.569	0.557	0.556	0.574	*L		0.999
6)															
7)	t	delta-BHC		1.449	1.398	1.389	1.402	1.334	1.378	1.414	1.448	1.501	1.412		3.42
8)	t	Heptachlor		1.514	1.435	1.443	1.427	1.329	1.293	1.289	1.263	1.242	1.359		7.10
9)	t	Aldrin		1.391	1.335	1.313	1.331	1.240	1.231	1.237	1.232	1.229	1.282		4.76
10)	t	Alachlor				0.228	0.224	0.207	0.180	0.164	0.147		*L		0.994
0)															
11)	t	Chlorpyrifos				0.747	0.732	0.655	0.556	0.514	0.474	0.449	*L		0.996
1)															
12)	t	Heptachlor Ep		1.384	1.326	1.313	1.313	1.198	1.141	1.127	1.101	1.090	1.221		9.25
13)	t	gamma-Chlorda		1.297	1.184	1.169	1.173	1.070	1.027	1.028	1.038	1.070	1.117		8.33
14)	t	alpha-Chlorda		1.526	1.359	1.332	1.335	1.219	1.158	1.156	1.158	1.180	1.269		10.06
15)	t	4,4'-DDE		1.265	1.241	1.233	1.231	1.162	1.160	1.168	1.174	1.184	1.202		3.36
16)	t	Endosulfan I		1.328	1.268	1.256	1.258	1.138	1.088	1.071	1.046	1.014	1.163		9.92
17)	t	Dieldrin	1.310	1.258	1.250	1.266	1.170	1.141	1.139	1.132	1.136	1.200		5.81	
18)	t	Endrin	1.333	1.303	1.299	1.302	1.210	1.174	1.168	1.149	1.157	1.233		6.11	
19)	t	4,4'-DDD	1.034	1.017	1.012	1.017	0.952	0.930	0.932	0.937	0.963	0.977		4.33	
20)	t	Endosulfan II	1.237	1.186	1.182	1.178	1.080	1.020	0.998	0.963	0.733	1.064		14.78	
21)	t	4,4'-DDT	1.153	1.123	1.123	1.143	1.047	1.016	1.035	1.032	1.061	1.081		4.93	
22)	t	Endrin Aldehyde	1.110	0.904	0.790	0.839	0.792	0.797	0.821	0.809	0.807	*L		0.999	
9)															
23)	t	Methoxychlor		0.686	0.695	0.691	0.621	0.548	0.520	0.489	0.476	*L		0.998	
0)															
24)	t	Mirex		1.091	1.094	1.097	0.949	0.832	0.801	0.787	0.808	*L		0.999	
6)															
25)	t	Endosulfan Su	1.217	1.154	1.150	1.161	1.043	0.969	0.948	0.927	0.927	1.055		11.00	
26)	t	Endrin Ketone	1.307	1.255	1.253	1.255	1.149	1.087	1.066	1.032	1.012	1.157		9.71	
27)	s	Decachlorobip		1.062	1.039	1.040	0.922	0.829	0.804	0.787		*L		0.999	
5)															
28)	i	1-br-2-nb_Chlordane	----------ISTD----------												
29)	l1	chlordane-1		0.048	0.046	0.039	0.037	0.037	0.035				*L		0.999

Initial Calibration Summary
Form 6
Pesticides

Client	**: Alpha Geoscience**	**Lab Number**	**: L2434679**
Project Name	**: RANCO MINE**	**Project Number**	**: 12123**
Instrument ID	**: PEST10**	**Ical Ref**	**: ICAL21109**
Calibration dates	**: 05/02/24 16:08 05/02/24 20:22**		

Calibration Files

1 =10240502i-03.d 2 =10240502i-04.d 3 =10240502i-22.d 4 =10240502i-23.d 5 =10240502i-07.d
7 =10240502i-24.d 8 =10240502i-09.d 9 =10240502i-10.d 10 =10240502i-11.d 11 =10240502i-12.d

		Compound	1	2	3	4	5	7	8	9	10	11	Avg	%RSD
5)														
30)	l1	chlordane-3			0.093	0.090	0.076	0.074	0.074	0.071			*L	0.999
6)														
31)	l1	chlordane-4			0.063	0.058	0.050	0.045	0.044	0.039			*L	0.995
0)														
32)	l1	chlordane-5			0.206	0.193	0.157	0.158	0.160	0.155			*L	0.999
8)														
33)	i	1-br-2-nb_Toxaphene	----------ISTD----------											
34)	l2	toxaphene-1			0.076	0.043		0.040	0.039	0.039			*L	0.999
9)														
35)	l2	toxaphene-2			0.042	0.038		0.038	0.037	0.037			*L	0.999
9)														
36)	l2	toxaphene-4			0.059	0.033		0.032	0.032	0.032			*L	0.999
8)														
37)	l2	toxaphene-5			0.065	0.039		0.038	0.037	0.038			*L	0.999
8)														

Initial Calibration Summary
Form 6
Pesticides

Client	**: Alpha Geoscience**	**Lab Number**	**: L2434679**
Project Name	**: RANCO MINE**	**Project Number**	**: 12123**
Instrument ID	**: PEST10**	**Ical Ref**	**: ICAL21109**
Calibration dates	**: 05/02/24 16:08 05/02/24 20:22**		

Signal #2 Calibration Files

1 =10240502i-03.d 2 =10240502i-04.d 3 =10240502i-22.d 4 =10240502i-23.d 5 =10240502i-07.d
7 =10240502i-24.d 8 =10240502i-09.d 9 =10240502i-10.d 10 =10240502i-11.d 11 =10240502i-12.d

		Compound	1	2	3	4	5	7	8	9	10	11	Avg	%RSD
1)	i	1-br-2-nb_Pesticides	ISTD											
2)	s	2,4,5,6-Tetra		1.022	0.975	0.955	0.926	0.915	0.923	0.946	0.908	0.892	0.940	4.22
3)	t	Hexachloroben		1.239	1.165	1.136	1.103	1.052	1.012	1.033	0.995	0.987	1.080	8.00
4)	t	alpha-BHC		1.293	1.250	1.232	1.223	1.250	1.386	1.461	1.469	1.484	1.339	8.26
5)	t	gamma-BHC (li		.301	1.250	1.207	1.200	1.176	1.181	1.270	1.322	1.329	1.338	1.257	5.05
6)	t	beta-BHC			0.684	0.655	0.637	0.607	0.577	0.549	0.552	0.543	0.549	*L	0.999
9)															
7)	t	delta-BHC			1.250	1.199	1.181	1.159	1.165	1.288	1.348	1.376	1.395	1.262	7.39
8)	t	Heptachlor			1.358	1.285	1.251	1.224	1.199	1.228	1.256	1.234	1.201	1.248	3.94
9)	t	Aldrin			1.165	1.132	1.117	1.080	1.076	1.135	1.179	1.179	1.172	1.137	3.55
10)	t	Alachlor				0.255	0.231	0.206	0.177	0.168	0.154		*L	0.997	
3)															
11)	t	Chlorpyrifos				0.730	0.695	0.646	0.569	0.549	0.515	0.489	*L	0.997	
7)															
12)	t	Heptachlor Ep		1.295	1.198	1.161	1.145	1.096	1.091	1.104	1.080	1.062	1.137	6.46
13)	t	gamma-Chlorda		1.110	1.054	1.027	0.997	0.961	0.965	0.992	0.993	1.004	1.011	4.61
14)	t	alpha-Chlorda		1.265	1.184	1.162	1.129	1.092	1.088	1.110	1.101	1.105	1.137	5.07
15)	t	4,4'-DDE		1.048	1.030	1.022	0.989	0.987	1.061	1.105	1.110	1.112	1.052	4.67
16)	t	Endosulfan I		1.175	1.115	1.096	1.059	1.024	1.024	1.038	1.014	0.975	1.058	5.77
17)	t	Dieldrin		1.125	1.065	1.043	1.023	1.006	1.047	1.081	1.075	1.063	1.059	3.28
18)	t	Endrin		1.137	1.105	1.078	1.058	1.043	1.084	1.111	1.093	1.067	1.086	2.68
19)	t	4,4'-DDD		0.864	0.827	0.815	0.801	0.796	0.839	0.877	0.881	0.912	0.846	4.72
20)	t	Endosulfan II		1.080	1.034	1.005	0.981	0.950	0.950	0.957	0.915	0.689	0.951	11.61
21)	t	4,4'-DDT		0.998	0.960	0.950	0.929	0.917	0.949	0.978	0.974	0.982	0.960	2.73
22)	t	Endrin Aldehyde		0.748	0.785	0.685	0.705	0.704	0.749	0.792	0.780	0.769	*L	0.999	
7)															
23)	t	Methoxychlor			0.595	0.583	0.564	0.539	0.502	0.495	0.473	0.470	*L	0.999	
5)															
24)	t	Mirex			1.010	0.969	0.929	0.859	0.764	0.745	0.711	0.709	*L	0.999	
5)															
25)	t	Endosulfan Su		1.067	1.020	0.987	0.966	0.921	0.900	0.906	0.890	0.876	0.948	6.92
26)	t	Endrin Ketone		1.136	1.091	1.073	1.043	1.014	1.006	1.012	0.973	0.949	1.033	5.71
27)	s	Decachlorobip			0.957	0.929	0.896	0.832	0.751	0.734	0.694		*L	0.998	
9)															
28)	i	1-br-2-nb_Chlordane	ISTD											
29)	l1	chlordane-1			0.044	0.042	0.035	0.033	0.033	0.031			*L	0.999	

Initial Calibration Summary
Form 6
Pesticides

Client	**: Alpha Geoscience**	**Lab Number**	**: L2434679**
Project Name	**: RANCO MINE**	**Project Number**	**: 12123**
Instrument ID	**: PEST10**	**Ical Ref**	**: ICAL21109**
Calibration dates	**: 05/02/24 16:08 05/02/24 20:22**		

Signal #2 Calibration Files

1 =10240502i-03.d 2 =10240502i-04.d 3 =10240502i-22.d 4 =10240502i-23.d 5 =10240502i-07.d
7 =10240502i-24.d 8 =10240502i-09.d 9 =10240502i-10.d 10 =10240502i-11.d 11 =10240502i-12.d

		Compound	1	2	3	4	5	7	8	9	10	11	Avg	%RSD
2)														
30)	l1	chlordane-3			0.056	0.055	0.046	0.041	0.039	0.036			*L	0.996
6)														
31)	l1	chlordane-4			0.161	0.152	0.132	0.136	0.135	0.129			*L	0.999
5)														
32)	l1	chlordane-5			0.133	0.125	0.107	0.107	0.105	0.101			*L	0.999
4)														
33)	i	1-br-2-nb_Toxaphene	----------ISTD----------											
34)	l2	toxaphene-1			0.027	0.023		0.020	0.020	0.020			*L	0.999
8)														
35)	l2	toxaphene-2			0.043	0.032		0.030	0.030	0.030			*L	0.999
8)														
36)	l2	toxaphene-4			0.046	0.039		0.035	0.036	0.037			*L	0.999
6)														
37)	l2	toxaphene-5			0.046	0.035		0.032	0.033	0.033			*L	0.999
8)														

Response Factor Report Pest 10

Method Path : I:\PEST\Pest10\2024\240502ical\
Method File : pest10_2024_05_02_ugL_ical.m
Title : pest
Last Update : Fri May 10 08:39:10 2024
Response Via : Initial Calibration

Calibration Files
1 =10240502i-03.d 2 =10240502i-04.d 3 =10240502i-22.d 4 =10240502i-23.d 5 =10240502i-07.d
7 =10240502i-24.d 8 =10240502i-09.d 9 =10240502i-10.d 10 =10240502i-11.d 11 =10240502i-12.d

		Compound	1	2	3	4	5	7	8	9	10	11	Avg	%RSD
1)	i	1-br-2-nb_Pesticides	----------ISTD----------											
2)	s	2,4,5,6-Tetra...		1.285	1.171	1.153	1.169	1.034	0.989	0.993	0.987	0.986	1.085	10.25
3)	t	Hexachloroben...		1.342	1.269	1.245	1.250	1.124	1.052	1.049	1.044	1.063	1.160	10.04
4)	t	alpha-BHC		1.510	1.477	1.473	1.497	1.432	1.492	1.532	1.562	1.618	1.510	3.62
5)	t	gamma-BHC (li...	1.656	1.446	1.412	1.414	1.426	1.341	1.362	1.389	1.409	1.460	1.431	6.06
6)	t	beta-BHC		0.747	0.702	0.697	0.695	0.622	0.569	0.557	0.556	0.574	*L	0.999
7)	t	delta-BHC		1.449	1.398	1.389	1.402	1.334	1.378	1.414	1.448	1.501	1.412	3.42
8)	t	Heptachlor		1.514	1.435	1.443	1.427	1.329	1.293	1.289	1.263	1.242	1.359	7.10
9)	t	Aldrin		1.391	1.335	1.313	1.331	1.240	1.231	1.237	1.232	1.229	1.282	4.76
10)	t	Alachlor				0.228	0.224	0.207	0.180	0.164	0.147		*L	0.994
11)	t	Chlorpyrifos				0.747	0.732	0.655	0.556	0.514	0.474	0.449	*L	0.996
12)	t	Heptachlor Ep...		1.384	1.326	1.313	1.313	1.198	1.141	1.127	1.101	1.090	1.221	9.25
13)	t	gamma-Chlorda...		1.297	1.184	1.169	1.173	1.070	1.027	1.028	1.038	1.070	1.117	8.33
14)	t	alpha-Chlorda...		1.526	1.359	1.332	1.335	1.219	1.158	1.156	1.158	1.180	1.269	10.06
15)	t	4,4'-DDE		1.265	1.241	1.233	1.231	1.162	1.160	1.168	1.174	1.184	1.202	3.36
16)	t	Endosulfan I		1.328	1.268	1.256	1.258	1.138	1.088	1.071	1.046	1.014	1.163	9.92

Response Factor Report Pest 10

Method Path : I:\PEST\Pest10\2024\240502ical\
Method File : pest10_2024_05_02_ugL_ical.m
Title : pest
Last Update : Fri May 10 08:39:10 2024
Response Via : Initial Calibration

Calibration Files
1 =10240502i-03.d 2 =10240502i-04.d 3 =10240502i-22.d 4 =10240502i-23.d 5 =10240502i-07.d
7 =10240502i-24.d 8 =10240502i-09.d 9 =10240502i-10.d 10 =10240502i-11.d 11 =10240502i-12.d

		Compound	1	2	3	4	5	7	8	9	10	11	Avg	%RSD
17)	t	Dieldrin		1.310	1.258	1.250	1.266	1.170	1.141	1.139	1.132	1.136	1.200	5.81
18)	t	Endrin		1.333	1.303	1.299	1.302	1.210	1.174	1.168	1.149	1.157	1.233	6.11
19)	t	4,4'-DDD		1.034	1.017	1.012	1.017	0.952	0.930	0.932	0.937	0.963	0.977	4.33
20)	t	Endosulfan II		1.237	1.186	1.182	1.178	1.080	1.020	0.998	0.963	0.733	1.064	14.78
21)	t	4,4'-DDT		1.153	1.123	1.123	1.143	1.047	1.016	1.035	1.032	1.061	1.081	4.93
22)	t	Endrin Aldehyde		1.110	0.904	0.790	0.839	0.792	0.797	0.821	0.809	0.807	*L	0.9999
23)	t	Methoxychlor			0.686	0.695	0.691	0.621	0.548	0.520	0.489	0.476	*L	0.9980
24)	t	Mirex			1.091	1.094	1.097	0.949	0.832	0.801	0.787	0.808	*L	0.9996
25)	t	Endosulfan Su...		1.217	1.154	1.150	1.161	1.043	0.969	0.948	0.927	0.927	1.055	11.00
26)	t	Endrin Ketone		1.307	1.255	1.253	1.255	1.149	1.087	1.066	1.032	1.012	1.157	9.71
27)	s	Decachlorobip...			1.062	1.039	1.040	0.922	0.829	0.804	0.787		*L	0.9995
28)	i	1-br-2-nb_Chlordane	----------ISTD----------											
29)	l1	chlordane-1			0.048	0.046	0.039	0.037	0.037	0.035			*L	0.9995
30)	l1	chlordane-3			0.093	0.090	0.076	0.074	0.074	0.071			*L	0.9996
31)	l1	chlordane-4			0.063	0.058	0.050	0.045	0.044	0.039			*L	0.9950
32)	l1	chlordane-5			0.206	0.193	0.157	0.158	0.160	0.155			*L	0.9998

Method Path : I:\PEST\Pest10\2024\240502ical\
Method File : pest10_2024_05_02_ugL_ical.m
Title : pest
Last Update : Fri May 10 08:39:10 2024
Response Via : Initial Calibration

Calibration Files
1 =10240502i-03.d 2 =10240502i-04.d 3 =10240502i-22.d 4 =10240502i-23.d 5 =10240502i-07.d
7 =10240502i-24.d 8 =10240502i-09.d 9 =10240502i-10.d 10 =10240502i-11.d 11 =10240502i-12.d

		Compound	1	2	3	4	5	7	8	9	10	11	Avg	%RSD
33)	i	1-br-2-nb_Toxaphene	----------ISTD----------											
34)	l2	toxaphene-1			0.076	0.043		0.040	0.039	0.039			*L	0.9999
35)	l2	toxaphene-2			0.042	0.038		0.038	0.037	0.037			*L	0.9999
36)	l2	toxaphene-4			0.059	0.033		0.032	0.032	0.032			*L	0.9998
37)	l2	toxaphene-5			0.065	0.039		0.038	0.037	0.038			*L	0.9998

Signal #2 Calibration Files
1 =10240502i-03.d 2 =10240502i-04.d 3 =10240502i-22.d 4 =10240502i-23.d 5 =10240502i-07.d
7 =10240502i-24.d 8 =10240502i-09.d 9 =10240502i-10.d 10 =10240502i-11.d 11 =10240502i-12.d

		Compound	1	2	3	4	5	7	8	9	10	11	Avg	%RSD
1)	i	1-br-2-nb_Pesticides	----------ISTD----------											
2)	s	2,4,5,6-Tetra...		1.022	0.975	0.955	0.926	0.915	0.923	0.946	0.908	0.892	0.940	4.22
3)	t	Hexachloroben...		1.239	1.165	1.136	1.103	1.052	1.012	1.033	0.995	0.987	1.080	8.00
4)	t	alpha-BHC		1.293	1.250	1.232	1.223	1.250	1.386	1.461	1.469	1.484	1.339	8.26
5)	t	gamma-BHC (li...	1.301	1.250	1.207	1.200	1.176	1.181	1.270	1.322	1.329	1.338	1.257	5.05
6)	t	beta-BHC		0.684	0.655	0.637	0.607	0.577	0.549	0.552	0.543	0.549	*L	0.9999
7)	t	delta-BHC		1.250	1.199	1.181	1.159	1.165	1.288	1.348	1.376	1.395	1.262	7.39
8)	t	Heptachlor		1.358	1.285	1.251	1.224	1.199	1.228	1.256	1.234	1.201	1.248	3.94
9)	t	Aldrin		1.165	1.132	1.117	1.080	1.076	1.135	1.179	1.179	1.172	1.137	3.55

Response Factor Report Pest 10

Method Path : I:\PEST\Pest10\2024\240502ical\
Method File : pest10_2024_05_02_ugL_ical.m
Title : pest
Last Update : Fri May 10 08:39:10 2024
Response Via : Initial Calibration

Calibration Files
1 =10240502i-03.d 2 =10240502i-04.d 3 =10240502i-22.d 4 =10240502i-23.d 5 =10240502i-07.d
7 =10240502i-24.d 8 =10240502i-09.d 9 =10240502i-10.d 10 =10240502i-11.d 11 =10240502i-12.d

		Compound	1	2	3	4	5	7	8	9	10	11	Avg	%RSD
10)	t	Alachlor				0.255	0.231	0.206	0.177	0.168	0.154		*L	0.997
11)	t	Chlorpyrifos				0.730	0.695	0.646	0.569	0.549	0.515	0.489	*L	0.997
12)	t	Heptachlor Ep...	1.295	1.198	1.161	1.145	1.096	1.091	1.104	1.080	1.062		1.137	6.46
13)	t	gamma-Chlorda...	1.110	1.054	1.027	0.997	0.961	0.965	0.992	0.993	1.004		1.011	4.61
14)	t	alpha-Chlorda...	1.265	1.184	1.162	1.129	1.092	1.088	1.110	1.101	1.105		1.137	5.07
15)	t	4,4'-DDE	1.048	1.030	1.022	0.989	0.987	1.061	1.105	1.110	1.112		1.052	4.67
16)	t	Endosulfan I	1.175	1.115	1.096	1.059	1.024	1.024	1.038	1.014	0.975		1.058	5.77
17)	t	Dieldrin	1.125	1.065	1.043	1.023	1.006	1.047	1.081	1.075	1.063		1.059	3.28
18)	t	Endrin	1.137	1.105	1.078	1.058	1.043	1.084	1.111	1.093	1.067		1.086	2.68
19)	t	4,4'-DDD	0.864	0.827	0.815	0.801	0.796	0.839	0.877	0.881	0.912		0.846	4.72
20)	t	Endosulfan II	1.080	1.034	1.005	0.981	0.950	0.950	0.957	0.915	0.689		0.951	11.61
21)	t	4,4'-DDT	0.998	0.960	0.950	0.929	0.917	0.949	0.978	0.974	0.982		0.960	2.73
22)	t	Endrin Aldehyde	0.748	0.785	0.685	0.705	0.704	0.749	0.792	0.780	0.769		*L	0.999
23)	t	Methoxychlor			0.595	0.583	0.564	0.539	0.502	0.495	0.473	0.470	*L	0.999
24)	t	Mirex			1.010	0.969	0.929	0.859	0.764	0.745	0.711	0.709	*L	0.999
25)	t	Endosulfan Su...	1.067	1.020	0.987	0.966	0.921	0.900	0.906	0.890	0.876		0.948	6.92

Response Factor Report Pest 10

Method Path : I:\PEST\Pest10\2024\240502ical\
Method File : pest10_2024_05_02_ugL_ical.m
Title : pest
Last Update : Fri May 10 08:39:10 2024
Response Via : Initial Calibration

Calibration Files
1 =10240502i-03.d 2 =10240502i-04.d 3 =10240502i-22.d 4 =10240502i-23.d 5 =10240502i-07.d
7 =10240502i-24.d 8 =10240502i-09.d 9 =10240502i-10.d 10 =10240502i-11.d 11 =10240502i-12.d

		Compound	1	2	3	4	5	7	8	9	10	11	Avg	%RSD
26)	t	Endrin Ketone	1.136	1.091	1.073	1.043	1.014	1.006	1.012	0.973	0.949		1.033	5.71
27)	s	Decachlorobip...			0.957	0.929	0.896	0.832	0.751	0.734	0.694		*L	0.998
9														
28)	i	1-br-2-nb_Chlordane	----------ISTD----------											
29)	l1	chlordane-1			0.044	0.042	0.035	0.033	0.033	0.031			*L	0.999
2														
30)	l1	chlordane-3			0.056	0.055	0.046	0.041	0.039	0.036			*L	0.996
6														
31)	l1	chlordane-4			0.161	0.152	0.132	0.136	0.135	0.129			*L	0.999
5														
32)	l1	chlordane-5			0.133	0.125	0.107	0.107	0.105	0.101			*L	0.999
4														
33)	i	1-br-2-nb_Toxaphene	----------ISTD----------											
34)	l2	toxaphene-1			0.027	0.023		0.020	0.020	0.020			*L	0.999
8														
35)	l2	toxaphene-2			0.043	0.032		0.030	0.030	0.030			*L	0.999
8														
36)	l2	toxaphene-4			0.046	0.039		0.035	0.036	0.037			*L	0.999
6														
37)	l2	toxaphene-5			0.046	0.035		0.032	0.033	0.033			*L	0.999
8														

(#) = Out of Range ### Number of calibration levels exceeded format ###

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest10\2024\240502ical\
Data File : 10240502i-02.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 May 2024 3:58 pm
Operator : PEST10:jag
Sample : pem10240502i-01,42e,,pp 11529 -- (Sig #1); pem-01,42e,,pp 11529 -- (Sig #2)
Misc : wg1919460,
ALS Vial : 2 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 07 18:34:54 2024
Quant Method : I:\PEST\Pest10\2024\240502ical\pest10_2024_05_02_ugL_ical.m
Quant Title : pest
QLast Update : Tue May 07 18:22:20 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : DEG - DDT/Endrin degradation check

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	1.318	1.428	337.8E6	147.5E6	25.000M4	25.000M4
	System Monitoring Compounds						
	Target Compounds						
15) t D	4,4'-DDE	3.675	4.588	1687868	317496	0.104M4	0.051M4
18) t	Endrin	4.231	5.035	1377.3E6	456.8E6	82.676M4	71.287M4
19) t	4,4'-DDD	4.341	5.154	2756186	834194	0.209M4	0.167M4
21) t	4,4'-DDT	4.632	5.425	2307.1E6	792.0E6	157.890M4	139.904M4
22) t	Endrin Aldeh	0.000	0.000	0	0	N.D. d	N.D. d
26) t	Endrin Keton	5.510	6.159	2110840	760148	0.135M4	0.125M4
	Sum chlordane-1			0	0	N.D.	N.D.
	Average chlordane-1					0.000	0.000
	Sum toxaphene-1			0	0	N.D.	N.D.
	Average toxaphene-1					0.000	0.000
	SemiQuant Compounds - Not Calibrated on this Instrument						
	Sum toxaphene-1			0	0	N.D.	N.D.
	Average toxaphene-1					0.000	0.000

(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest10\2024\240502ical\
Data File : 10240502i-02.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 May 2024 3:58 pm
Operator : PEST10:jag
Sample : pem10240502i-01,42e,,pp 11529 -- (Sig #1); pem-01,42e,,pp 11529 -- (Sig #2)
Misc : wg1919460,
ALS Vial : 2 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 07 18:34:54 2024
Quant Method : I:\PEST\Pest10\2024\240502ical\pest10_2024_05_02_ugL_ical.m
Quant Title : pest
QLast Update : Tue May 07 18:22:20 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : DEG - DDT/Endrin degradation check

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l

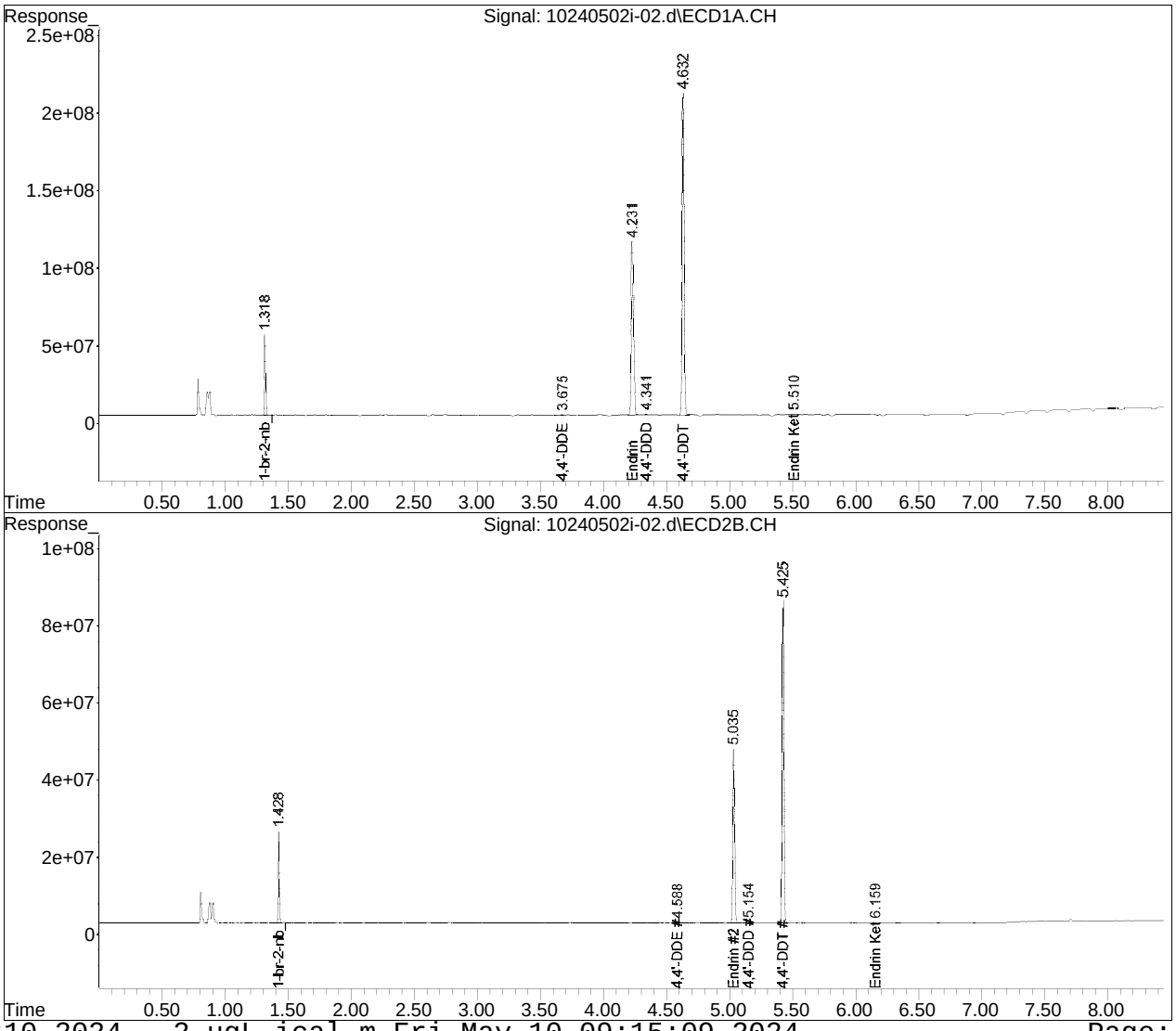
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : DEG - DDT/Endrin degradation checkiewed)

Data Path : I:\PEST\Pest10\2024\240502ical\
Data File : 10240502i-02.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 May 2024 3:58 pm
Operator : PEST10:jag
Sample : pem10240502i-01,42e,,pp 11529 -- (Sig #1); pem-01,42e,,pp 11529 --
Misc : wg1919460,
ALS Vial : 2 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 07 18:34:54 2024
Quant Method : I:\PEST\Pest10\2024\240502ical\pest10_2024_05_02_ugL_ical.m
Quant Title : pest
QLast Update : Tue May 07 18:22:20 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

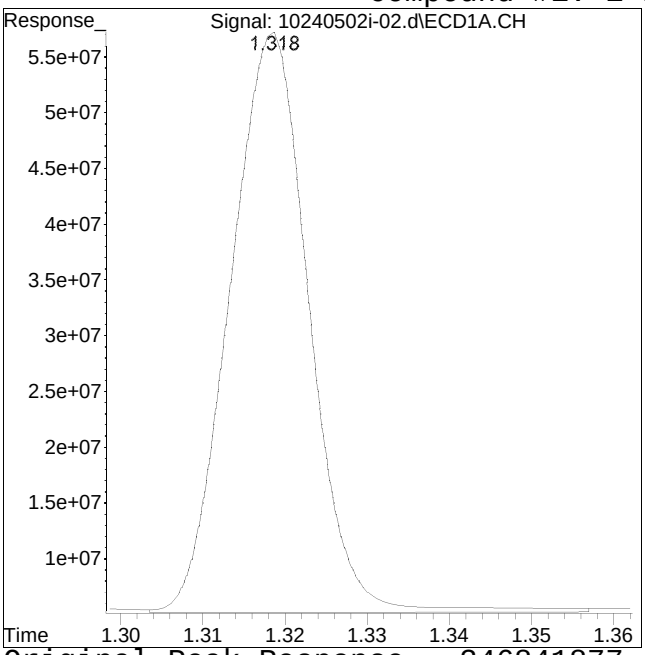
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

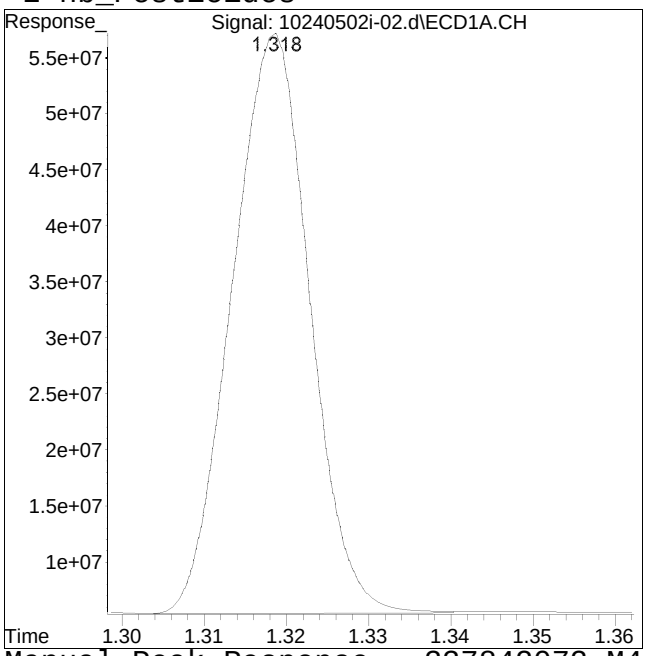


Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-02.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 3:58 pm Instrument : Pest 10
Sample : pem10240502i-01,42e,,pp 11Quant Date : 5/7/2024 6:34 pm

Compound #1: 1-br-2-nb_Pesticides



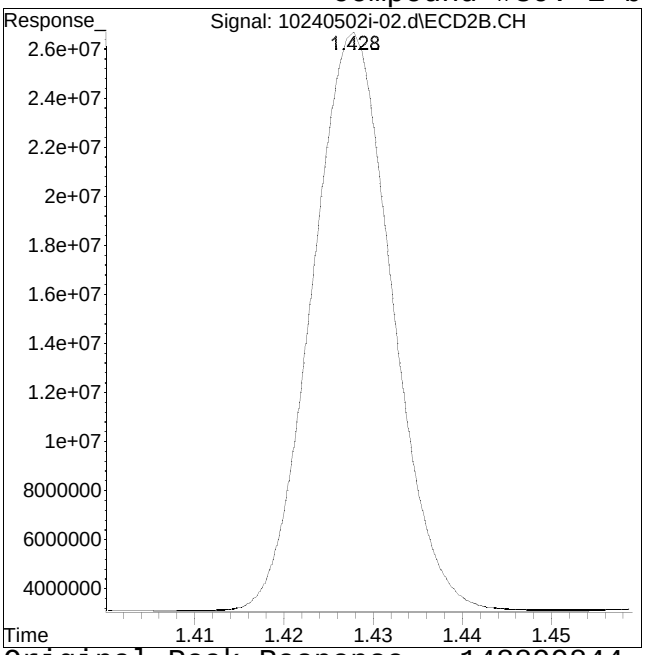


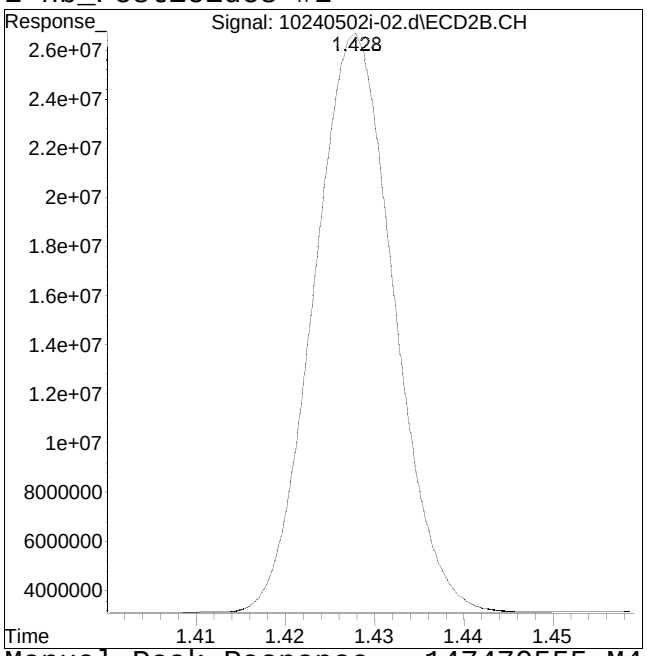
Original Peak Response = 346841877 Manual Peak Response = 337842072 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-02.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 3:58 pm Instrument : Pest 10
Sample : pem10240502i-01,42e,,pp 11Quant Date : 5/7/2024 6:34 pm

Compound #39: 1-br-2-nb_Pesticides #2



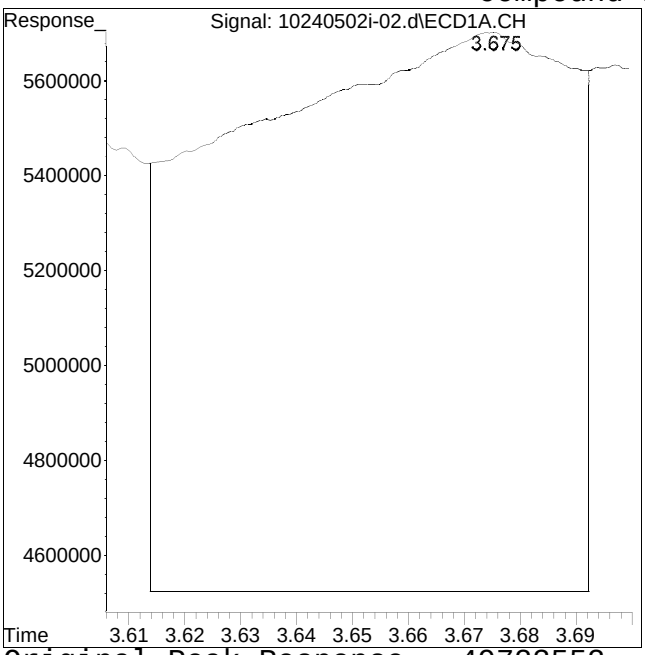


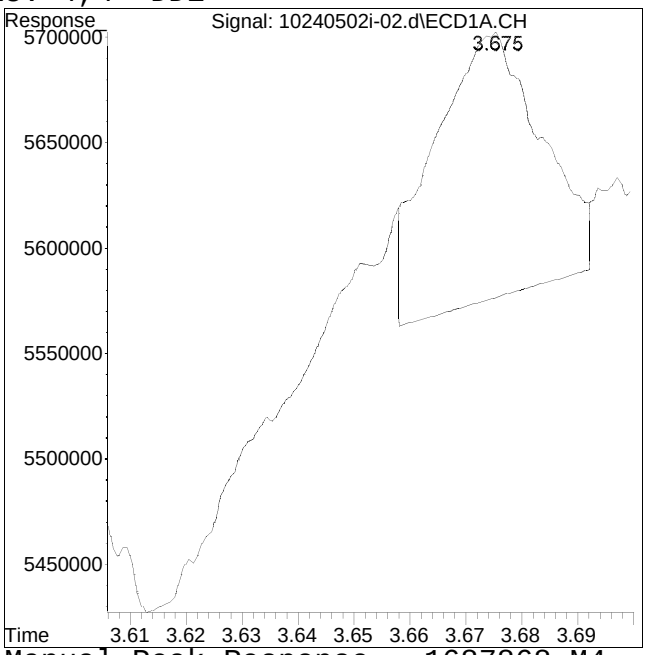
Original Peak Response = 148899844 Manual Peak Response = 147470555 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502Q
Data File : 10240502i-02.d
Date Inj'd : 5/2/2024 3:58 pm
Sample : pem10240502i-01,42e,,pp 11
Method : pest10_2024_05_02_ugL_ic
Operator : PEST10:jag
Instrument : Pest 10
Quant Date : 5/7/2024 6:34 pm

Compound #15: 4,4'-DDE



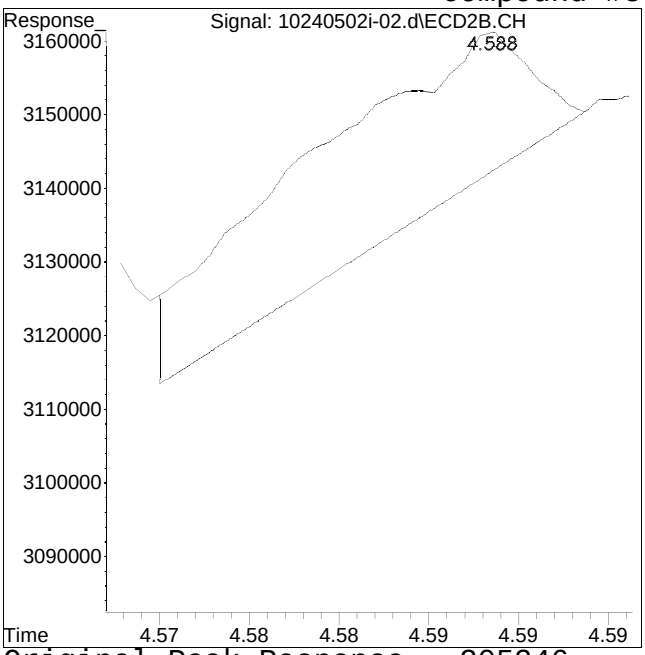


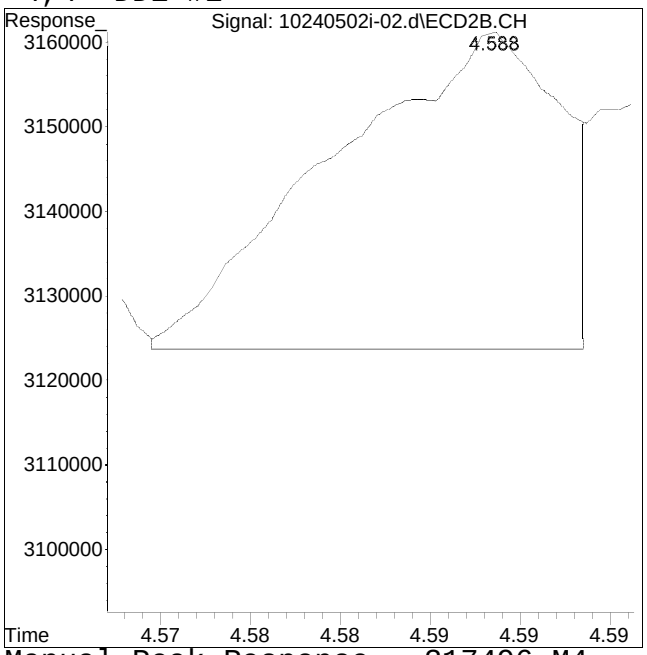
Original Peak Response = 49723552 Manual Peak Response = 1687868 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-02.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 3:58 pm Instrument : Pest 10
Sample : pem10240502i-01,42e,,pp 11Quant Date : 5/7/2024 6:34 pm

Compound #53: 4,4'-DDE #2



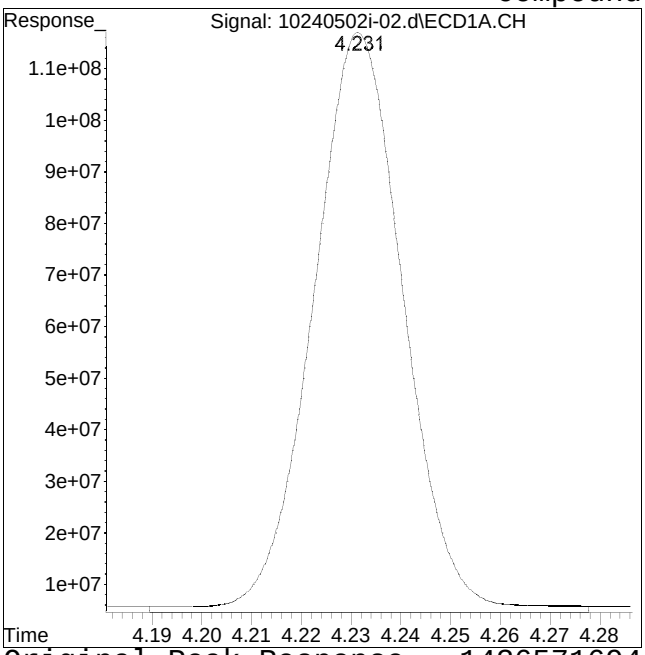


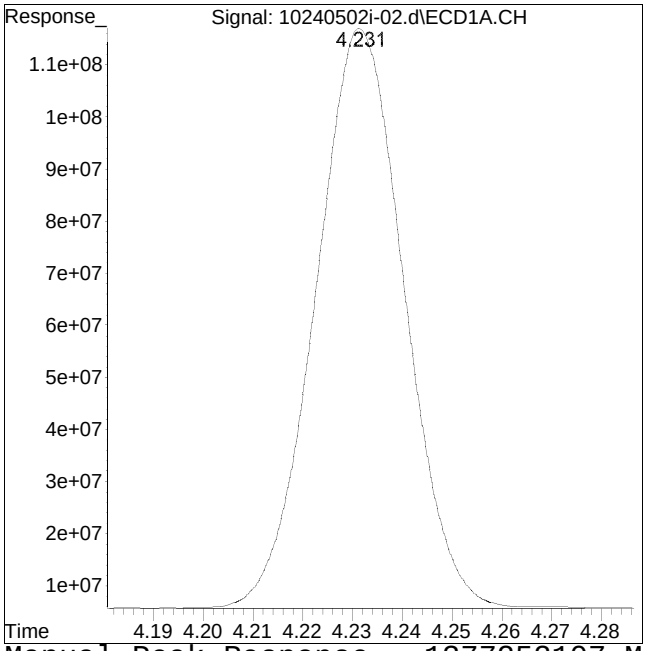
Original Peak Response = 205246 Manual Peak Response = 317496 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-02.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 3:58 pm Instrument : Pest 10
Sample : pem10240502i-01,42e,,pp 11Quant Date : 5/7/2024 6:34 pm

Compound #18: Endrin



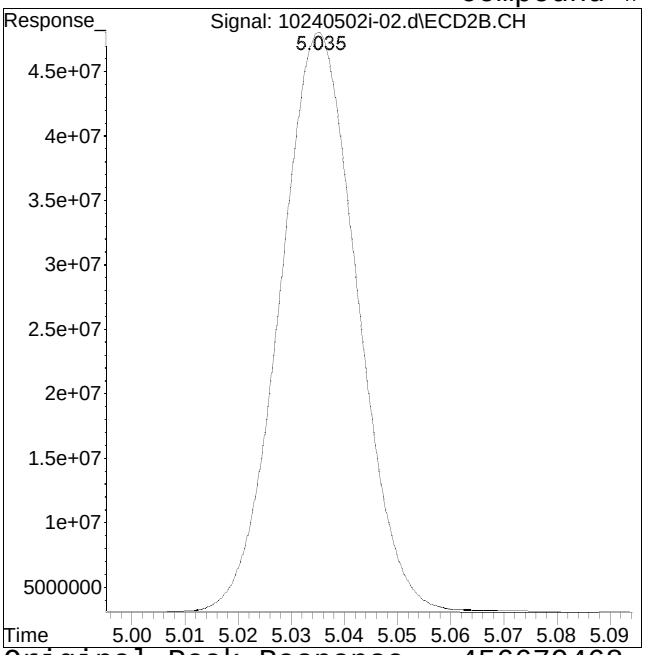


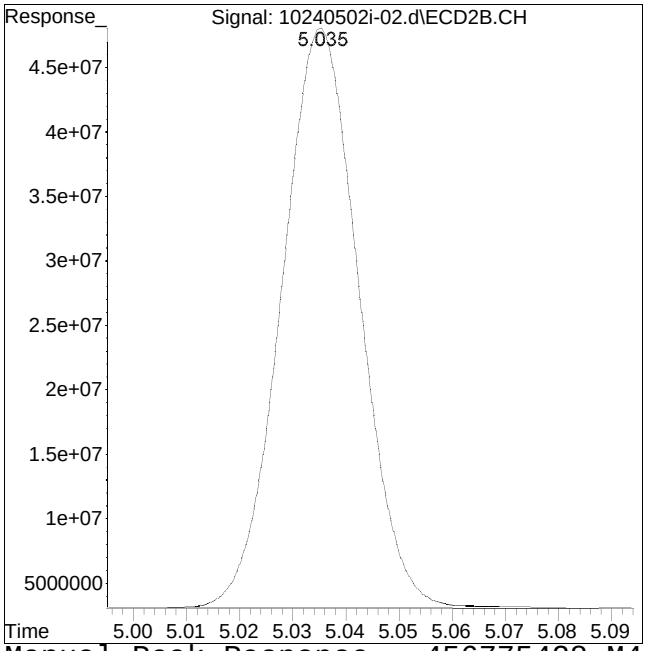
Original Peak Response = 1436571694 Manual Peak Response = 1377252107 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-02.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 3:58 pm Instrument : Pest 10
Sample : pem10240502i-01,42e,,pp 11Quant Date : 5/7/2024 6:34 pm

Compound #56: Endrin #2





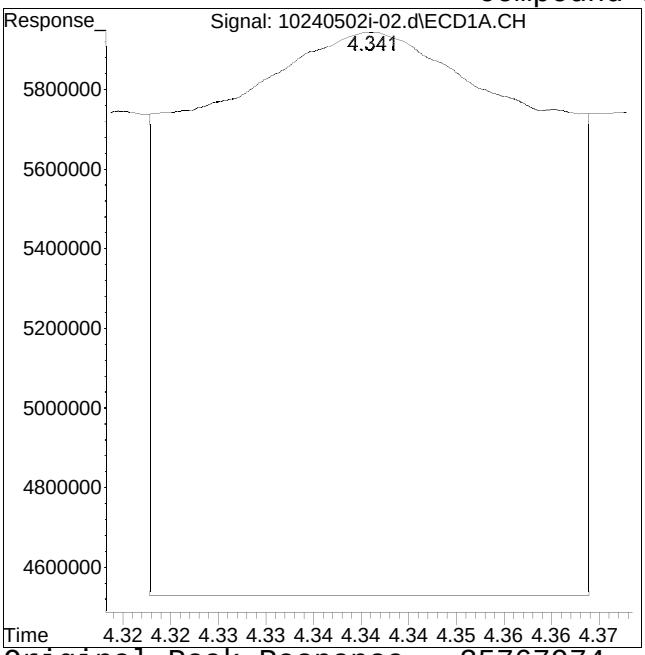
Original Peak Response = 456679468 Manual Peak Response = 456775428 M4
M4 = Poor automated baseline construction.

Manual Integration Report

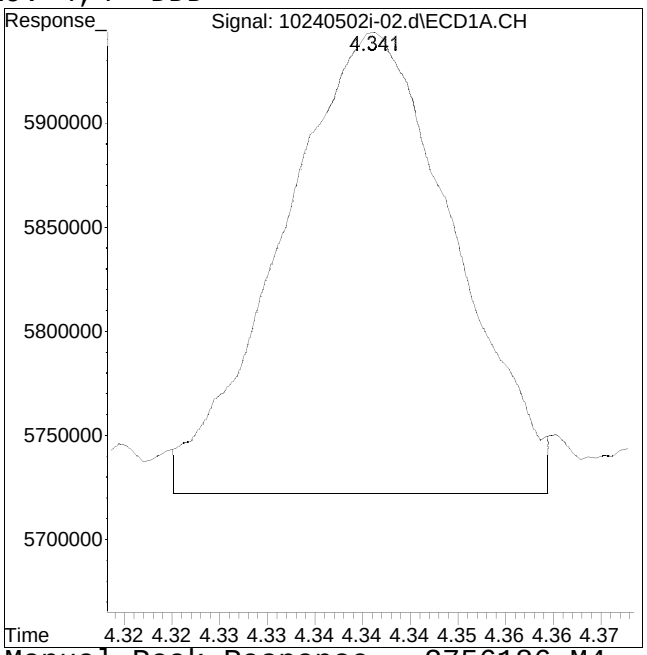
Data Path : I:\PEST\Pest10\2024\240502Q
Data File : 10240502i-02.d
Date Inj'd : 5/2/2024 3:58 pm
Sample : pem10240502i-01,42e,,pp 11

Method : pest10_2024_05_02_ugL_ic
Operator : PEST10:jag
Instrument : Pest 10
Quant Date : 5/7/2024 6:34 pm

Compound #19: 4,4'-DDD



Original Peak Response = 35767974



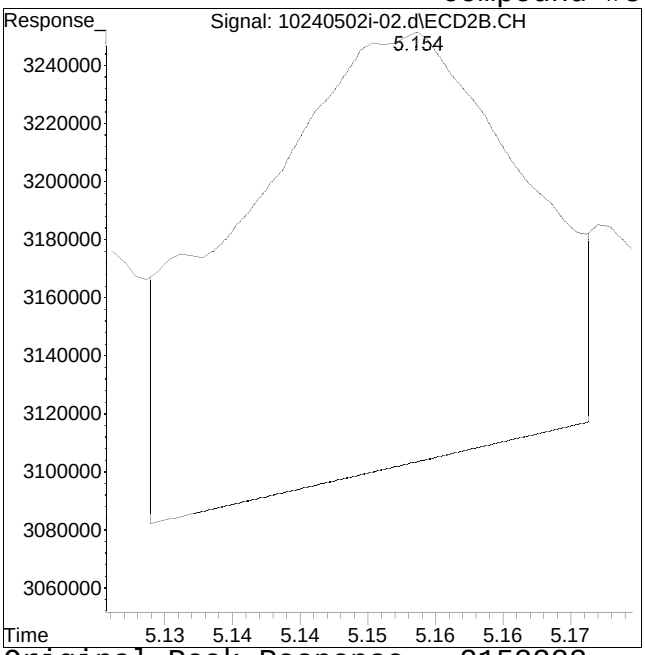
Manual Peak Response = 2756186 M4

M4 = Poor automated baseline construction.

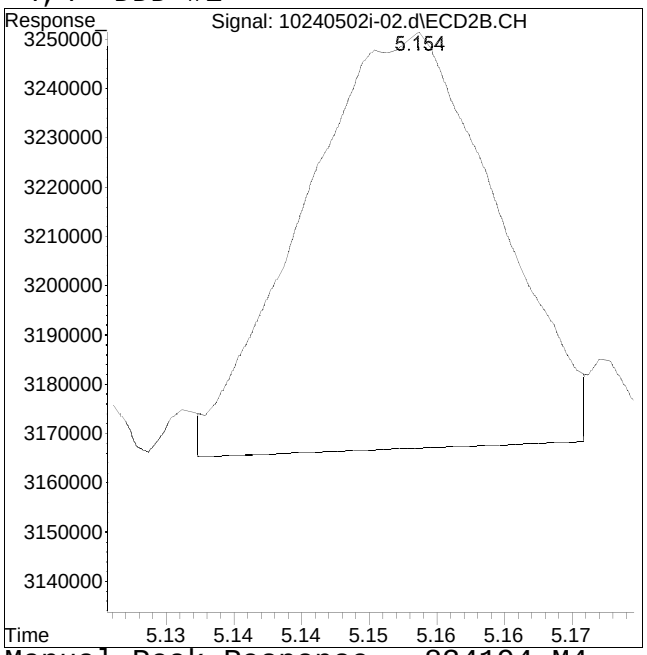
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-02.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 3:58 pm Instrument : Pest 10
Sample : pem10240502i-01,42e,,pp 11Quant Date : 5/7/2024 6:34 pm

Compound #57: 4,4'-DDD #2



Original Peak Response = 2153223



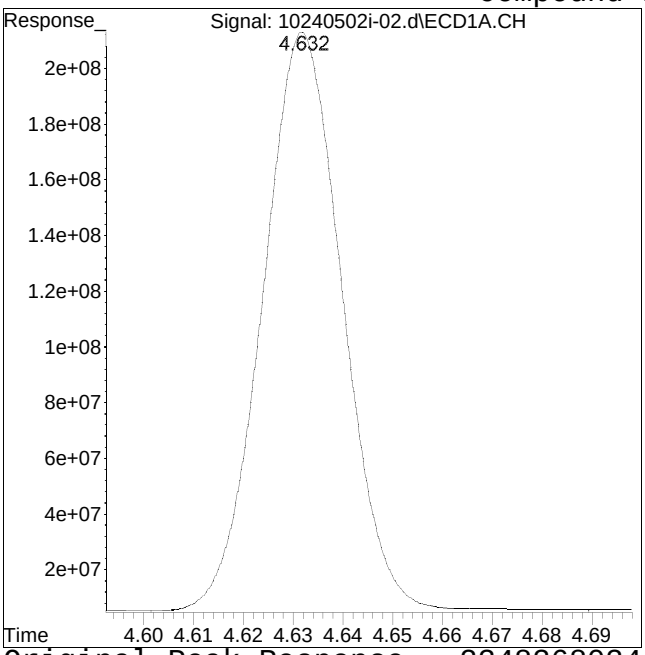
Manual Peak Response = 834194 M4

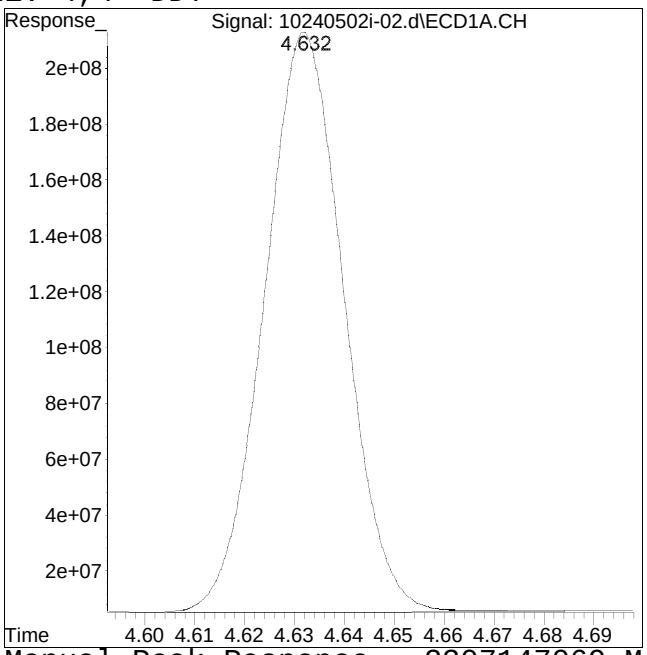
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-02.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 3:58 pm Instrument : Pest 10
Sample : pem10240502i-01,42e,,pp 11Quant Date : 5/7/2024 6:34 pm

Compound #21: 4,4'-DDT



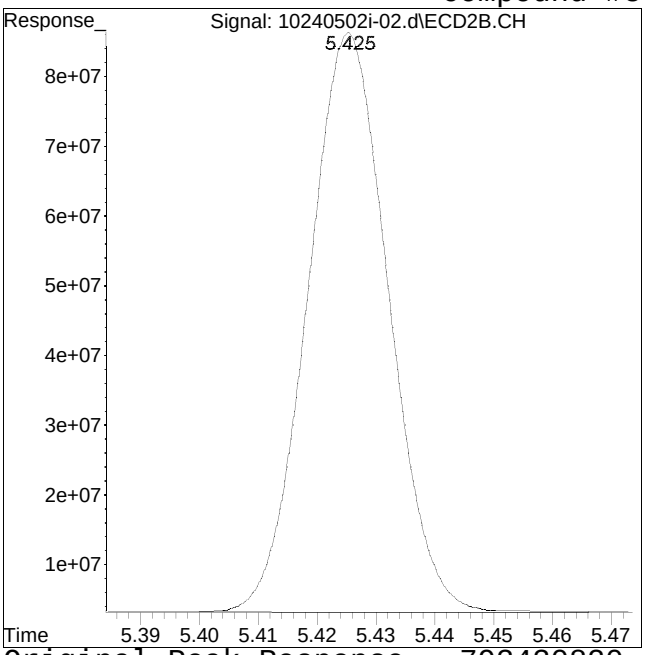


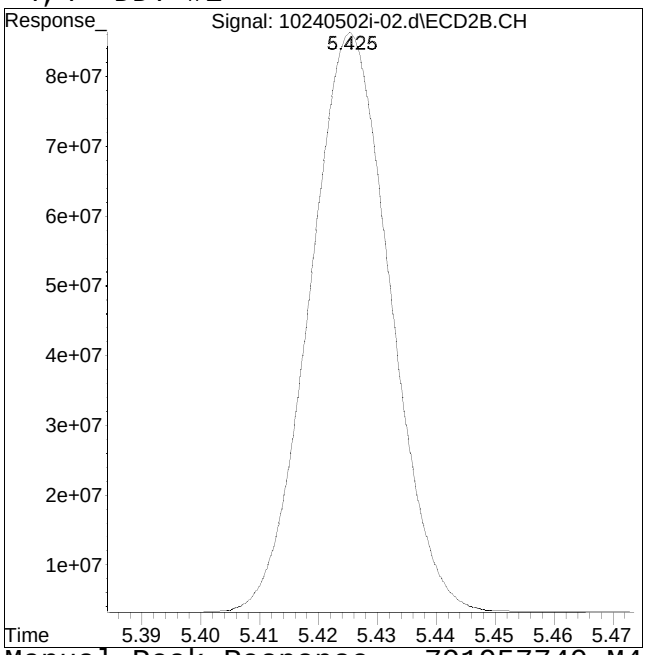
Original Peak Response = 2348368034 Manual Peak Response = 2307147069 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-02.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 3:58 pm Instrument : Pest 10
Sample : pem10240502i-01,42e,,pp 11Quant Date : 5/7/2024 6:34 pm

Compound #59: 4,4'-DDT #2



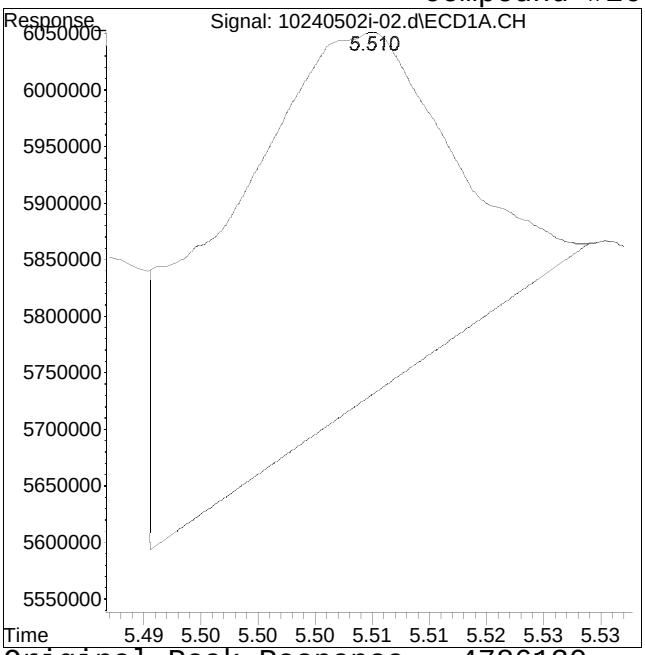


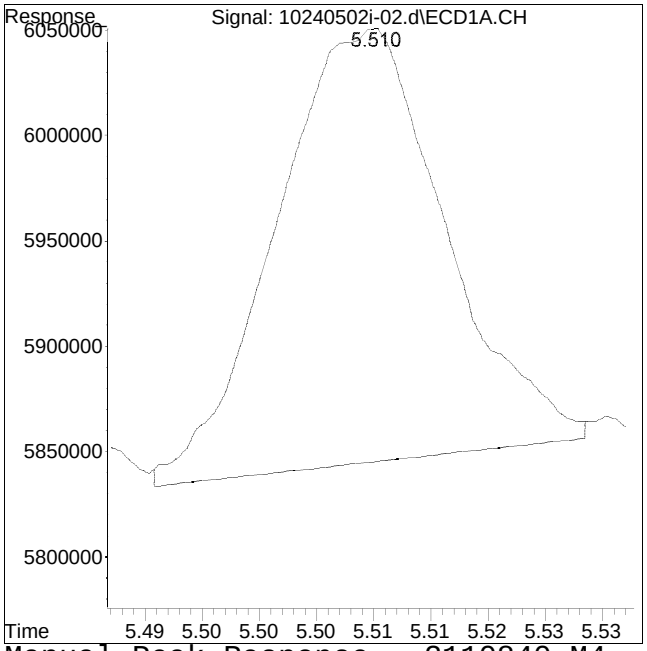
Original Peak Response = 793430820 Manual Peak Response = 791957740 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-02.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 3:58 pm Instrument : Pest 10
Sample : pem10240502i-01,42e,,pp 11Quant Date : 5/7/2024 6:34 pm

Compound #26: Endrin Ketone



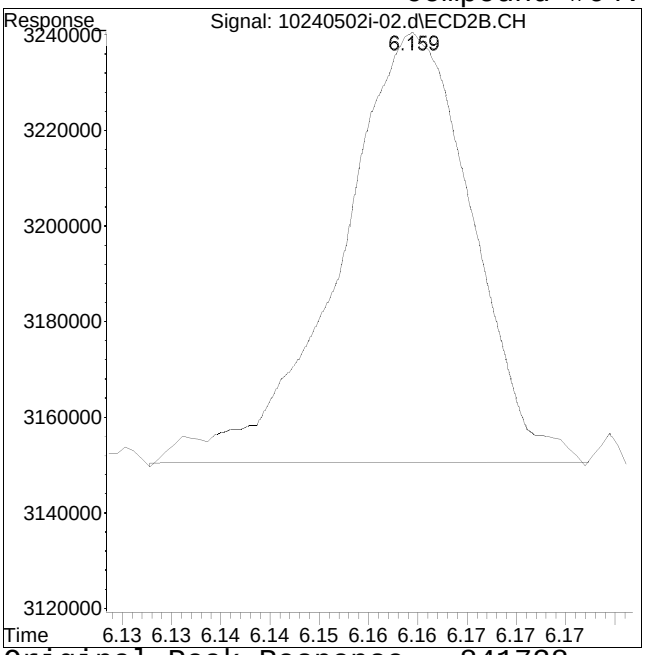


Original Peak Response = 4786130 Manual Peak Response = 2110840 M4
M4 = Poor automated baseline construction.

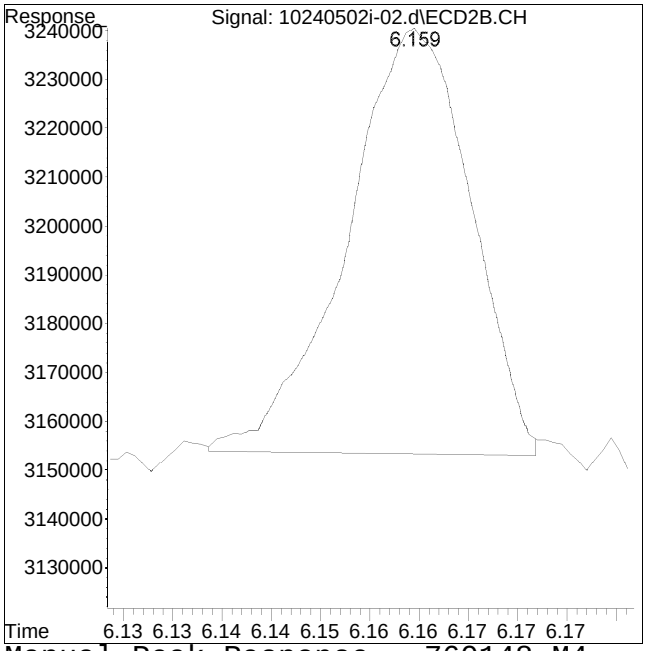
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502Q
Data File : 10240502i-02.d
Date Inj'd : 5/2/2024 3:58 pm
Sample : pem10240502i-01,42e,,pp 11
Method : pest10_2024_05_02_ugL_ic
Operator : PEST10:jag
Instrument : Pest 10
Quant Date : 5/7/2024 6:34 pm

Compound #64: Endrin Ketone #2



Original Peak Response = 841738



Manual Peak Response = 760148 M4

M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest10\2024\240502ical\
Data File : 10240502i-03.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 May 2024 4:08 pm
Operator : PEST10:jag
Sample : il1pest,42e,,pp 11406 L0.0005
Misc : wg1919460, (Sig #1); ical (Sig #2)
ALS Vial : 3 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 07 17:18:16 2024
Quant Method : I:\PEST\Pest10\2024\240502ical\pest10_2024_05_02_ugL_ical.m
Quant Title : pest
QLast Update : Tue May 07 17:18:00 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	1.318	1.428	361.0E6	139.7E6	25.000M4	25.000M4
28) i	1-br-2-nb_Ch	0.000	0.000	0	0	N.D. d	N.D. d
33) i	1-br-2-nb_To	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount 50.000	Range 30 - 150		Recovery =		0.00%#	0.00%#
27) s	Decachlorobi	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount 50.000	Range 30 - 150		Recovery =		0.00%#	0.00%#
	Target Compounds						
3) t	Hexachlorobe	0.000	0.000	0	0	N.D. d	N.D. d
4) t	alpha-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5) t	gamma-BHC (l	2.180	2.644	11958198	3632825	0.589M4	0.519M4
6) t	beta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7) t	delta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
8) t	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
9) t	Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
10) t	Alachlor	0.000	0.000	0	0	N.D. d	N.D. d
11) t	Chlorpyrifos	0.000	0.000	0	0	N.D. d	N.D. d
12) t	Heptachlor E	0.000	0.000	0	0	N.D. d	N.D. d
13) t	gamma-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
14) t	alpha-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
15) t	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
16) t	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
17) t	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
18) t	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
19) t	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
20) t	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
21) t	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest10\2024\240502ical\
Data File : 10240502i-03.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 May 2024 4:08 pm
Operator : PEST10:jag
Sample : il1pest,42e,,pp 11406 L0.0005
Misc : wg1919460, (Sig #1); ical (Sig #2)
ALS Vial : 3 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 07 17:18:16 2024
Quant Method : I:\PEST\Pest10\2024\240502ical\pest10_2024_05_02_ugL_ical.m
Quant Title : pest
QLast Update : Tue May 07 17:18:00 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
22) t	Endrin Aldeh	0.000	0.000	0	0	N.D. d	N.D. d
23) t	Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d
24) t	Mirex	0.000	0.000	0	0	N.D. d	N.D. d
25) t	Endosulfan S	0.000	0.000	0	0	N.D. d	N.D. d
26) t	Endrin Keton	0.000	0.000	0	0	N.D. d	N.D. d
29) l1	chlordane-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l1	chlordane-3	0.000	0.000	0	0	N.D. d	N.D. d
31) l1	chlordane-4	0.000	0.000	0	0	N.D. d	N.D. d
32) l1	chlordane-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	chlordane-1			0	0	N.D.	N.D.
Average	chlordane-1					0.000	0.000
34) l2	toxaphene-1	0.000	0.000	0	0	N.D. d	N.D. d
35) l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
36) l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
37) l2	toxaphene-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

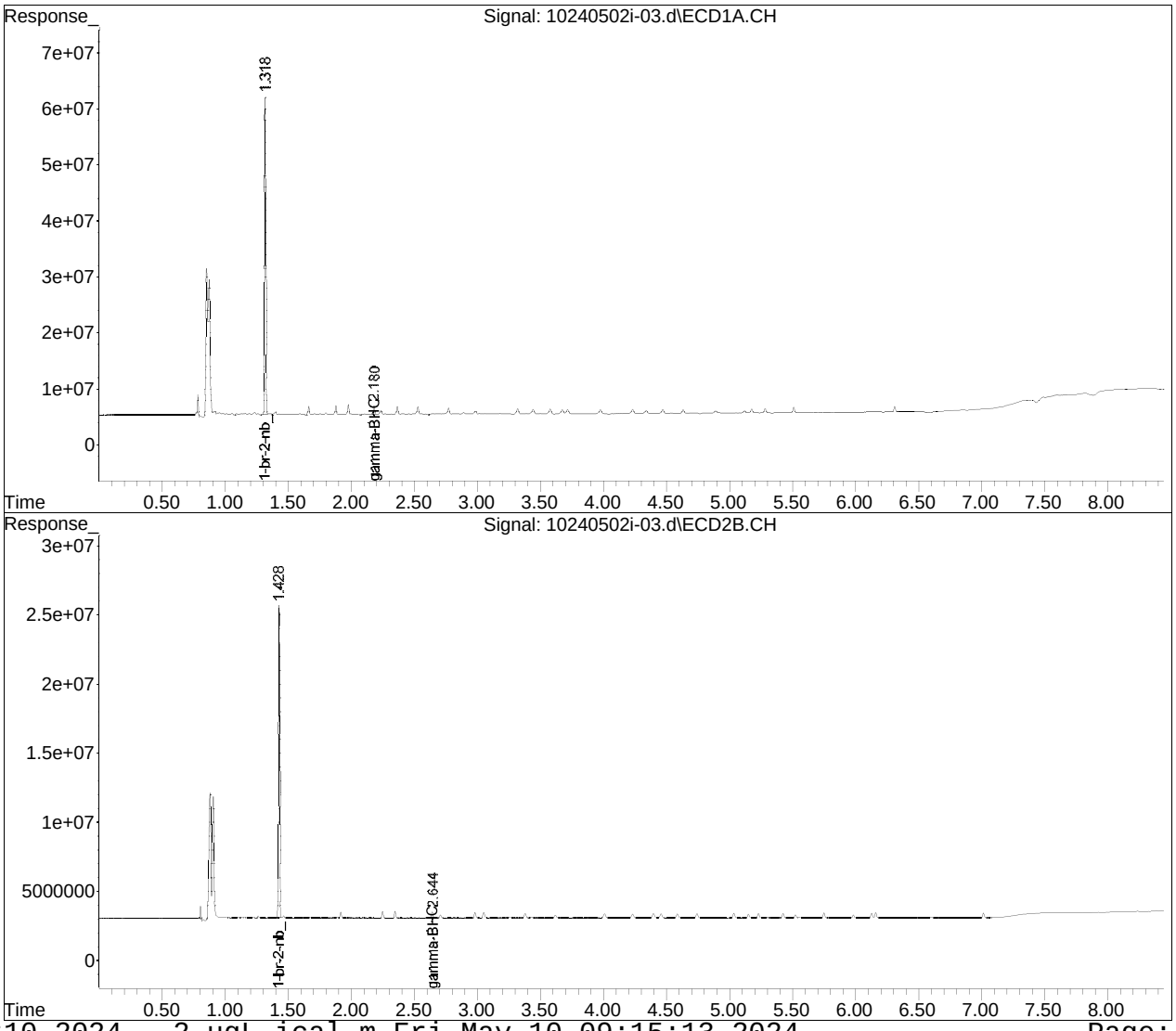
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest10\2024\240502ical\
Data File : 10240502i-03.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 May 2024 4:08 pm
Operator : PEST10:jag
Sample : il1pest,42e,,pp 11406 L0.0005
Misc : wg1919460, (Sig #1); ical (Sig #2)
ALS Vial : 3 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 07 17:18:16 2024
Quant Method : I:\PEST\Pest10\2024\240502ical\pest10_2024_05_02_ugL_ical.m
Quant Title : pest
QLast Update : Tue May 07 17:18:00 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

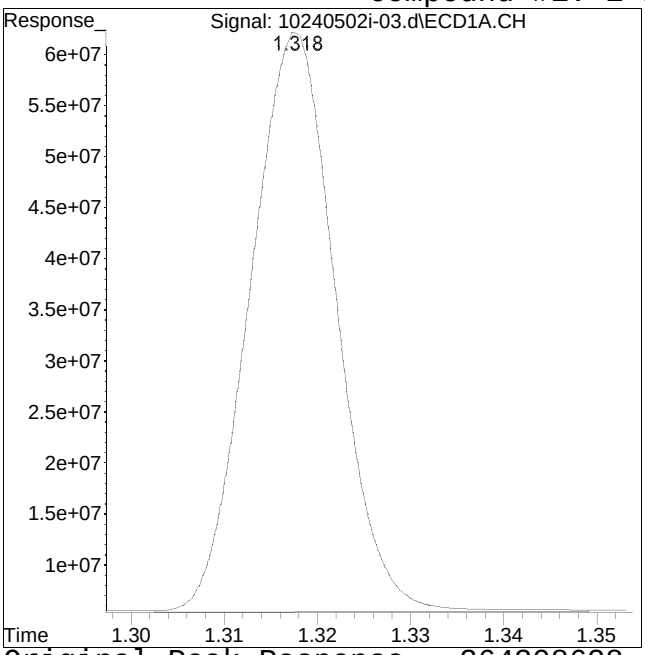
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

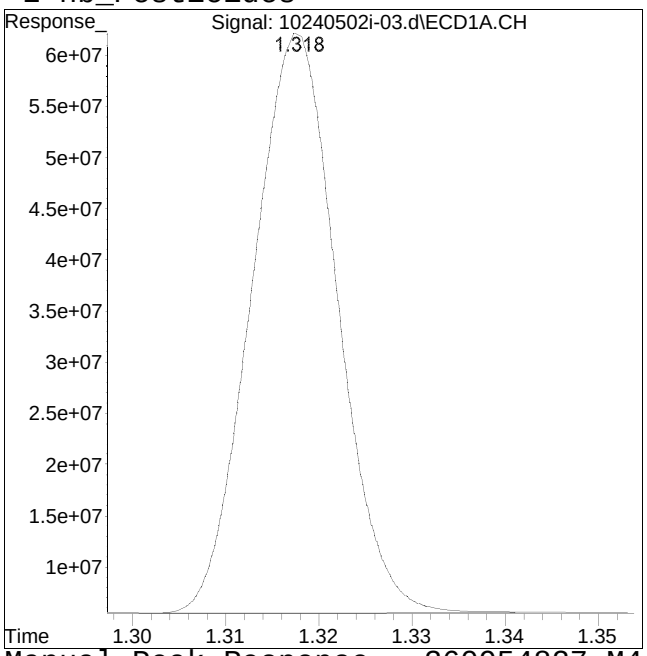


Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-03.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 4:08 pm Instrument : Pest 10
Sample : il1pest,42e,,pp 11406 L0.0Quant Date : 5/7/2024 5:18 pm

Compound #1: 1-br-2-nb_Pesticides



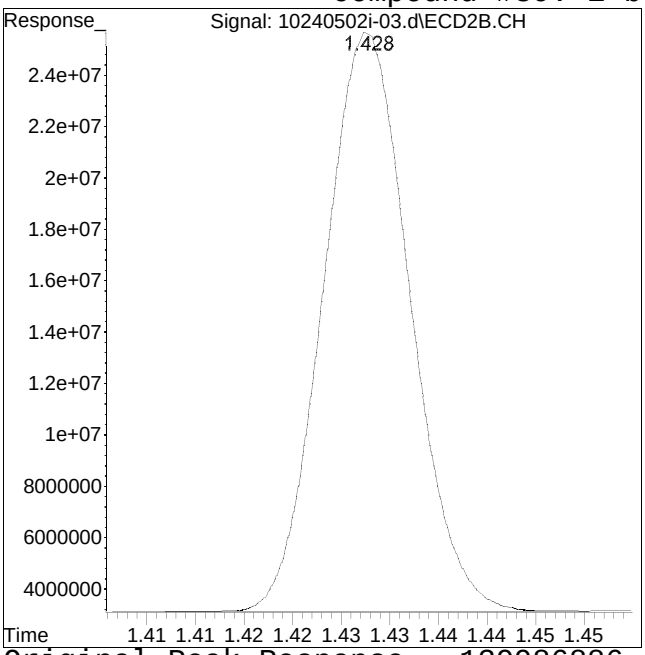


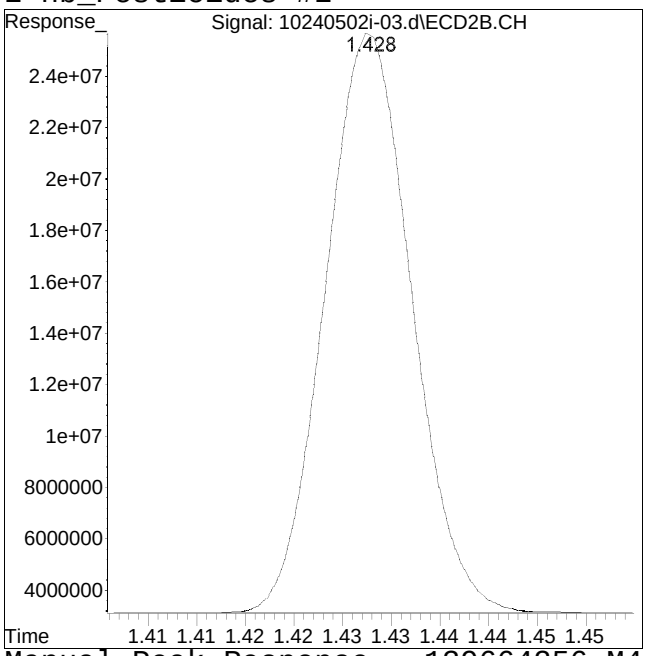
Original Peak Response = 364308628 Manual Peak Response = 360954827 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-03.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 4:08 pm Instrument : Pest 10
Sample : il1pest,42e,,pp 11406 L0.0Quant Date : 5/7/2024 5:18 pm

Compound #39: 1-br-2-nb_Pesticides #2



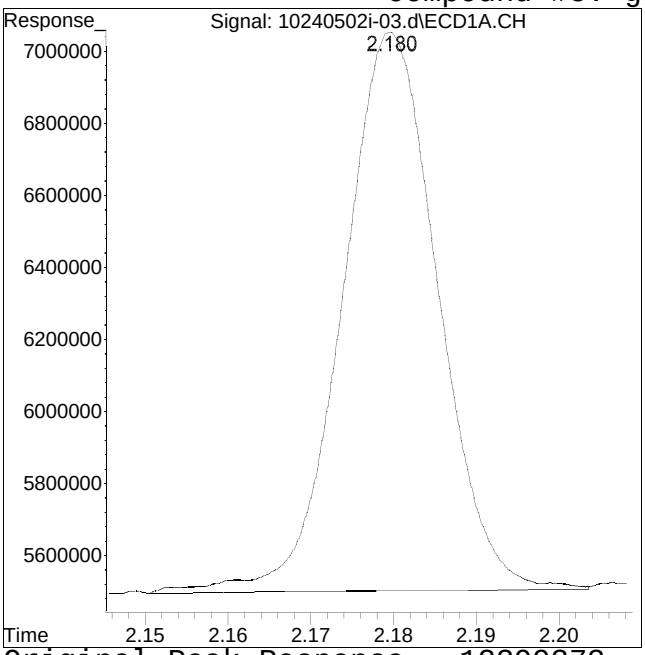


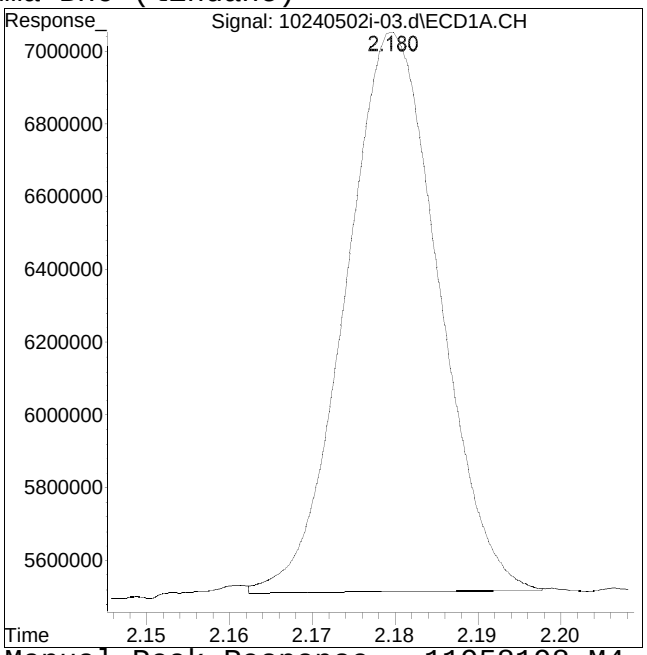
Original Peak Response = 139986886 Manual Peak Response = 139664256 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-03.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 4:08 pm Instrument : Pest 10
Sample : il1pest,42e,,pp 11406 L0.0Quant Date : 5/7/2024 5:18 pm

Compound #5: gamma-BHC (lindane)



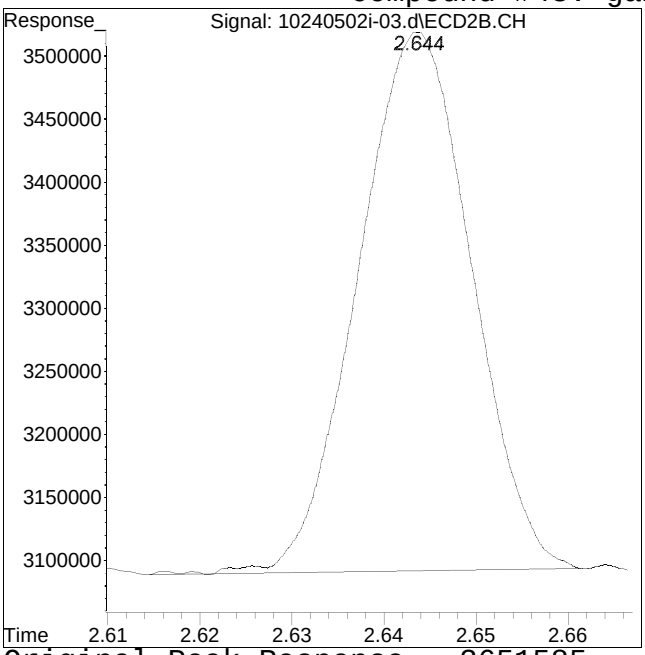


Original Peak Response = 12399373 Manual Peak Response = 11958198 M4
M4 = Poor automated baseline construction.

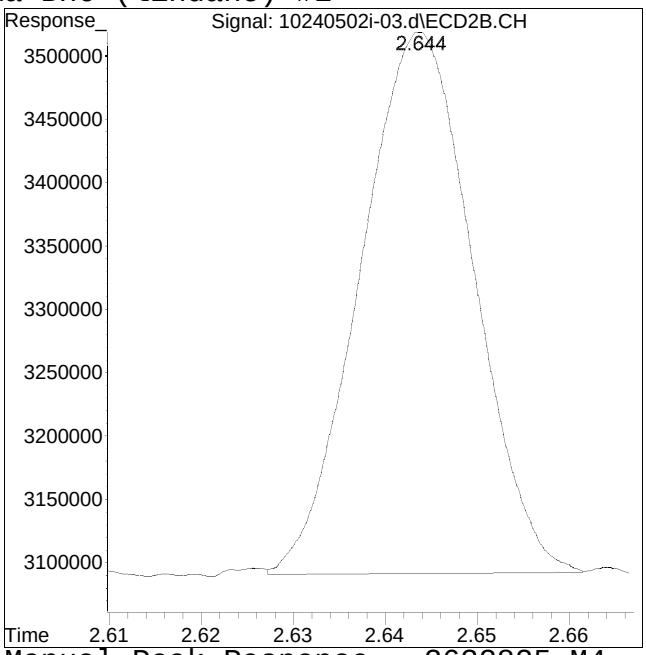
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-03.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 4:08 pm Instrument : Pest 10
Sample : il1pest,42e,,pp 11406 L0.0Quant Date : 5/7/2024 5:18 pm

Compound #43: gamma-BHC (lindane) #2



Original Peak Response = 3651585



Manual Peak Response = 3632825 M4

M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest10\2024\240502ical\
Data File : 10240502i-04.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 May 2024 4:20 pm
Operator : PEST10:jag
Sample : il2pest,42e,,pp 11405 L0.001
Misc : wg1919460, (Sig #1); ical (Sig #2)
ALS Vial : 4 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 07 17:28:30 2024
Quant Method : I:\PEST\Pest10\2024\240502ical\pest10_2024_05_02_ugL_ical.m
Quant Title : pest
QLast Update : Tue May 07 17:25:46 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	1.317	1.427	385.2E6	140.5E6	25.000M4	25.000M3
28) i	1-br-2-nb_Ch	0.000	0.000	0	0	N.D. d	N.D. d
33) i	1-br-2-nb_To	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	1.662	1.919	19802922	5740769	1.184M4	1.087M4
	Spiked Amount 50.000	Range 30 - 150		Recovery =		2.37%#	2.17%#
27) s	Decachlorobi	6.307	7.016	16814503	5655412	1.174	1.210M4
	Spiked Amount 50.000	Range 30 - 150		Recovery =		2.35%#	2.42%#
	Target Compounds						
3) t	Hexachlorobe	1.877	2.250	20668841	6963623	1.157M4	1.147M4
4) t	alpha-BHC	1.976	2.349	23270092	7267154	1.000M4	0.966M3
5) t	gamma-BHC (l	2.180	2.643	22270737	7020981	1.010M3	0.994M3
6) t	beta-BHC	2.236	2.709	11514963	3841675	1.176M4	1.150M3
7) t	delta-BHC	2.365	2.983	22320216	7023991	1.026M4	0.990M4
8) t	Heptachlor	2.527	3.052	23323989	7629825	1.114M4	1.088M3
9) t	Aldrin	2.771	3.380	21433909	6544847	1.085M3	1.024M3
10) t D	Alachlor	2.893	3.257	3652421	1386329	0.271M4	1.218M4
11) t D	Chlorpyrifos	2.985	3.619	12186106	4356684	0.297M4	1.221M3

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest10\2024\240502ical\
Data File : 10240502i-04.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 May 2024 4:20 pm
Operator : PEST10:jag
Sample : il2pest,42e,,pp 11405 L0.001
Misc : wg1919460, (Sig #1); ical (Sig #2)
ALS Vial : 4 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 07 17:28:30 2024
Quant Method : I:\PEST\Pest10\2024\240502ical\pest10_2024_05_02_ugL_ical.m
Quant Title : pest
QLast Update : Tue May 07 17:25:46 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

		Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
12)	t	Heptachlor E	3.318	4.009	21325650	7277987	1.133M4	1.139M4
13)	t	gamma-Chlord	3.441	4.232	19979327	6236083	1.161M4	1.097M4
14)	t	alpha-Chlord	3.576	4.397	23506940	7107472	1.202M4	1.112M4
15)	t	4,4'-DDE	3.672	4.586	19490961	5888167	1.053M4	0.996M4
16)	t	Endosulfan I	3.714	4.457	20455266	6599986	1.137M4	1.110M3
17)	t	Dieldrin	3.974	4.742	20178560	6321739	1.091M3	1.063M4
18)	t	Endrin	4.230	5.035	20544747	6389309	1.082	1.047M4
19)	t	4,4'-DDD	4.337	5.150	15926678	4851929	1.058M4	1.020M4
20)	t	Endosulfan I	4.469	5.230	19054901	6067565	1.162M4	1.135M4
21)	t	4,4'-DDT	4.630	5.425	17757244	5605820	1.066	1.040M4
22)	t	Endrin Aldeh	4.887	5.523	17104107	4201204	1.303M4	1.002M4
23)	t D	Methoxychlor	5.116	5.983	10777401	3439280	0.487M4	1.140M3
24)	t D	Mirex	5.174	6.127	17587715	5969064	0.633M3	1.232
25)	t	Endosulfan S	5.280	5.749	18746599	5996581	1.153M4	1.125M4
26)	t	Endrin Keton	5.507	6.159	20141056	6385254	1.130M4	1.100M4
29)	l1	chlordane-1	0.000	0.000	0	0	N.D.	N.D.
30)	l1	chlordane-3	0.000	0.000	0	0	N.D. d	N.D. d
31)	l1	chlordane-4	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\PEST\Pest10\2024\240502ical\
Data File : 10240502i-04.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 May 2024 4:20 pm
Operator : PEST10:jag
Sample : il2pest,42e,,pp 11405 L0.001
Misc : wg1919460, (Sig #1); ical (Sig #2)
ALS Vial : 4 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 07 17:28:30 2024
Quant Method : I:\PEST\Pest10\2024\240502ical\pest10_2024_05_02_ugL_ical.m
Quant Title : pest
QLast Update : Tue May 07 17:25:46 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
32) l1	chlordane-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	chlordane-1			0	0	N.D.	N.D.
Average	chlordane-1					0.000	0.000
34) l2	toxaphene-1	0.000	0.000	0	0	N.D. d	N.D. d
35) l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
36) l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
37) l2	toxaphene-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

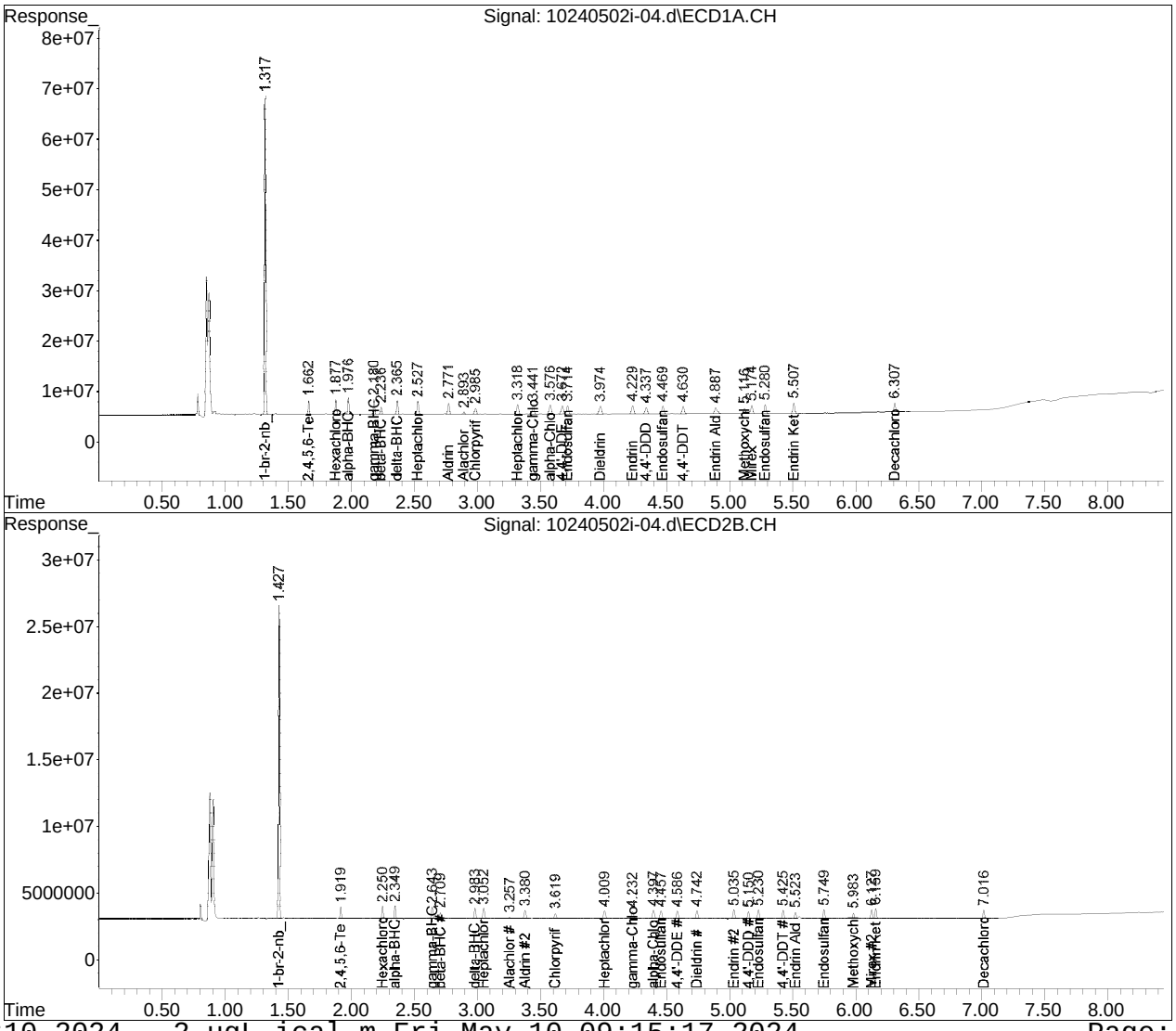
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest10\2024\240502ical\
Data File : 10240502i-04.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 May 2024 4:20 pm
Operator : PEST10:jag
Sample : il2pest,42e,,pp 11405 L0.001
Misc : wg1919460, (Sig #1); ical (Sig #2)
ALS Vial : 4 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 07 17:28:30 2024
Quant Method : I:\PEST\Pest10\2024\240502ical\pest10_2024_05_02_ugL_ical.m
Quant Title : pest
QLast Update : Tue May 07 17:25:46 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

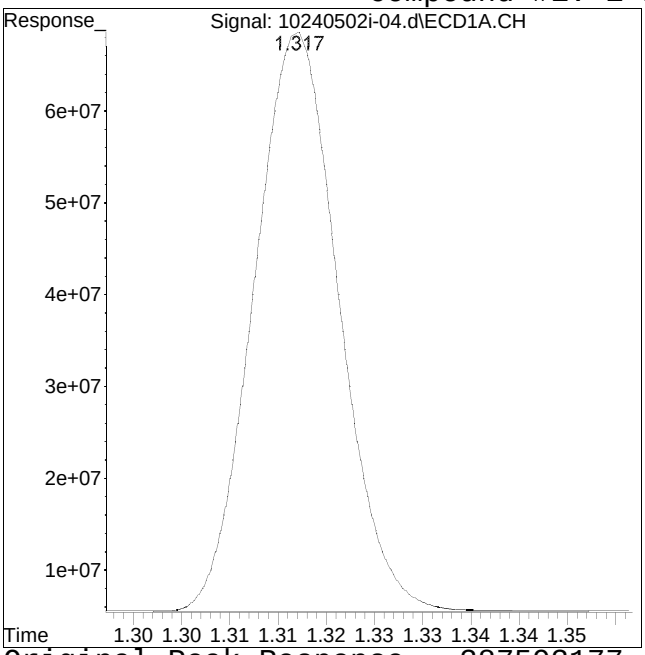
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

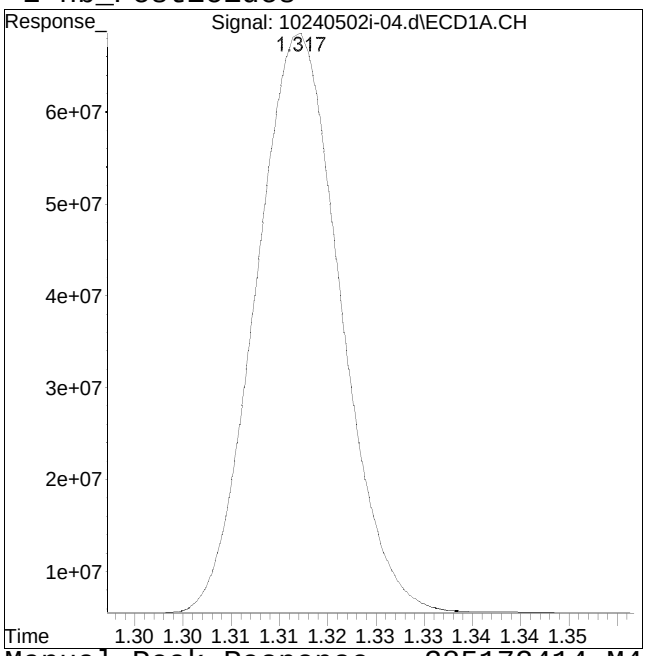


Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-04.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 4:20 pm Instrument : Pest 10
Sample : il2pest,42e,,pp 11405 L0.0Quant Date : 5/7/2024 5:28 pm

Compound #1: 1-br-2-nb_Pesticides



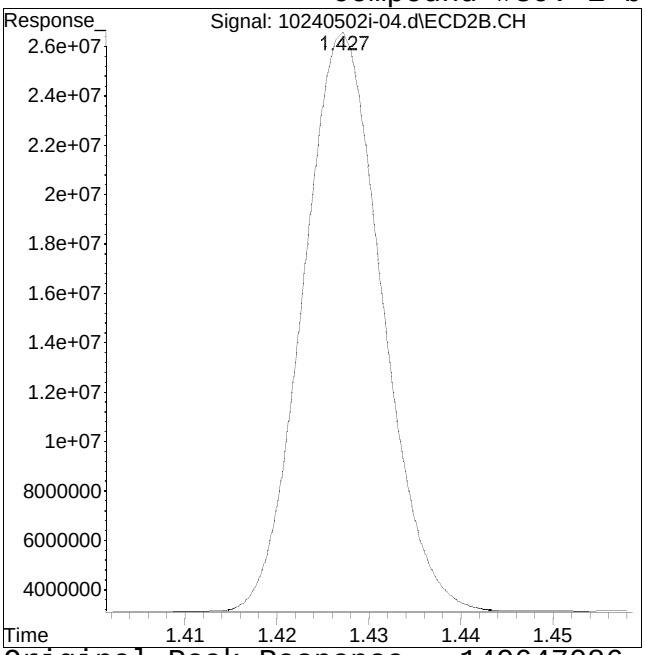


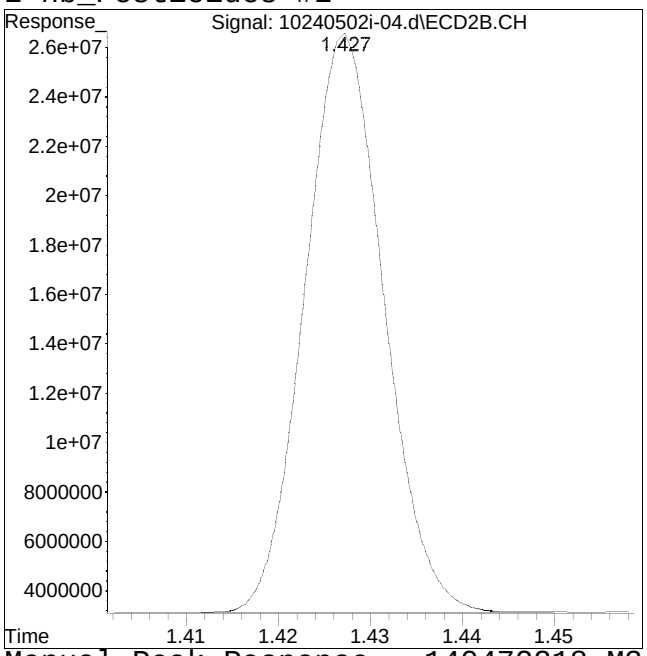
Original Peak Response = 387593177 Manual Peak Response = 385172414 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-04.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 4:20 pm Instrument : Pest 10
Sample : il2pest,42e,,pp 11405 L0.0Quant Date : 5/7/2024 5:28 pm

Compound #39: 1-br-2-nb_Pesticides #2





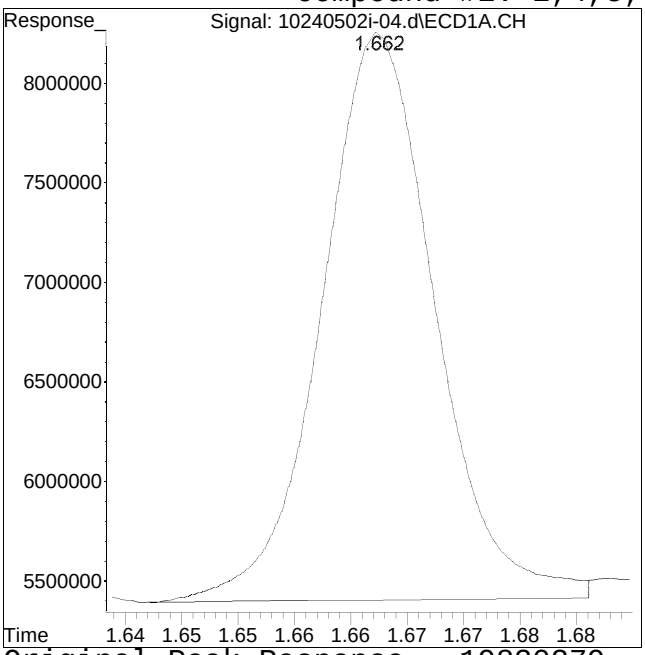
Original Peak Response = 140647086 Manual Peak Response = 140472218 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

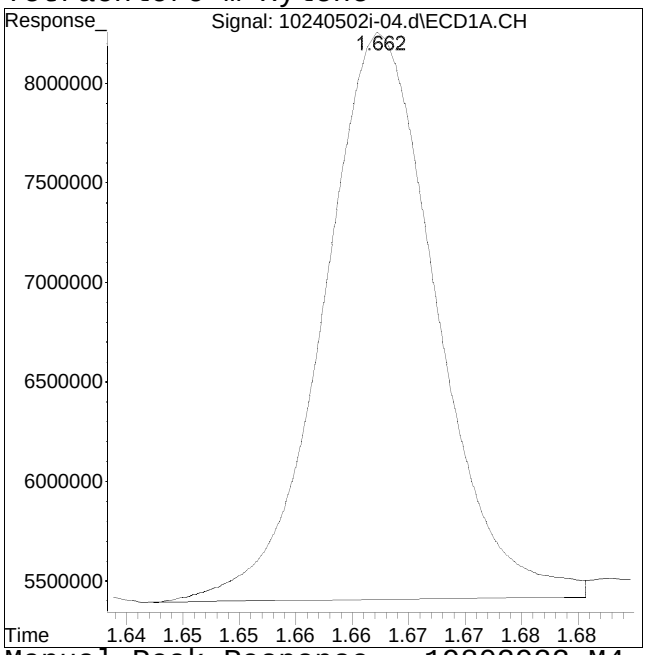
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502Q
Data File : 10240502i-04.d
Date Inj'd : 5/2/2024 4:20 pm
Sample : il2pest,42e,,pp 11405 L0.0

Method : pest10_2024_05_02_ugL_ic
Operator : PEST10:jag
Instrument : Pest 10
Quant Date : 5/7/2024 5:28 pm

Compound #2: 2,4,5,6-Tetrachloro-m-xylene



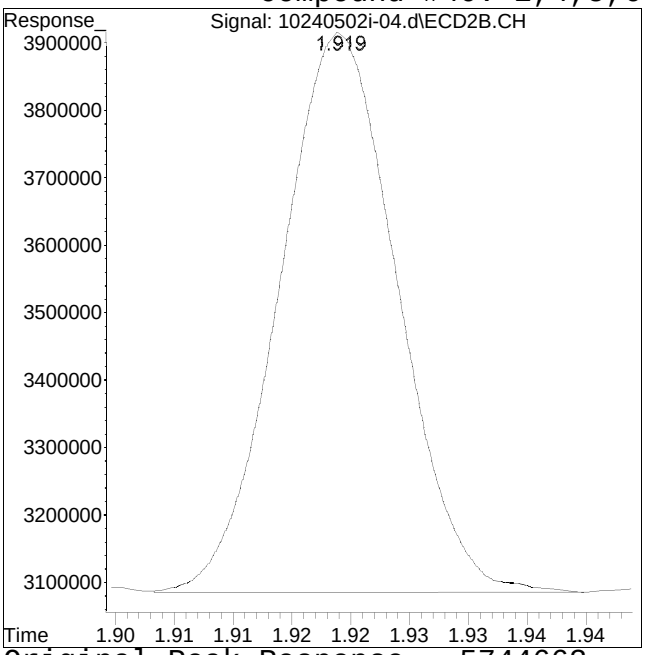


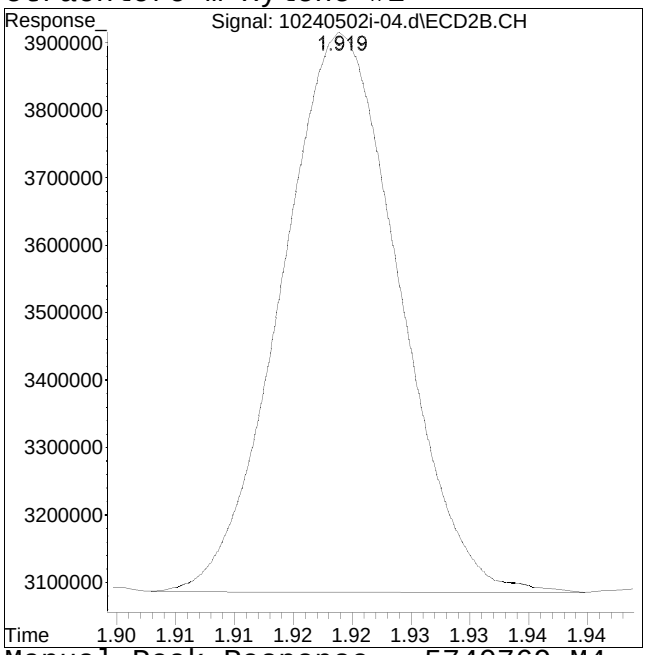
Original Peak Response = 19830279 Manual Peak Response = 19802922 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-04.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 4:20 pm Instrument : Pest 10
Sample : il2pest,42e,,pp 11405 L0.0Quant Date : 5/7/2024 5:28 pm

Compound #40: 2,4,5,6-Tetrachloro-m-xylene #2



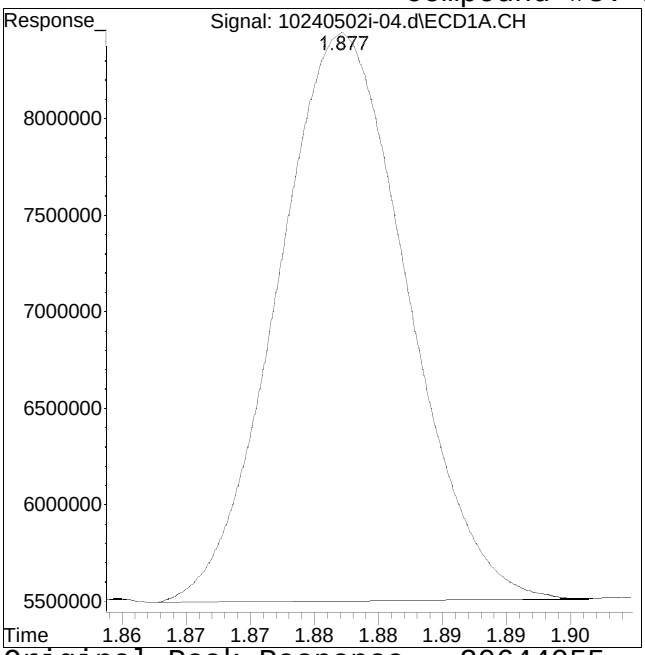


Original Peak Response = 5744663 Manual Peak Response = 5740769 M4
M4 = Poor automated baseline construction.

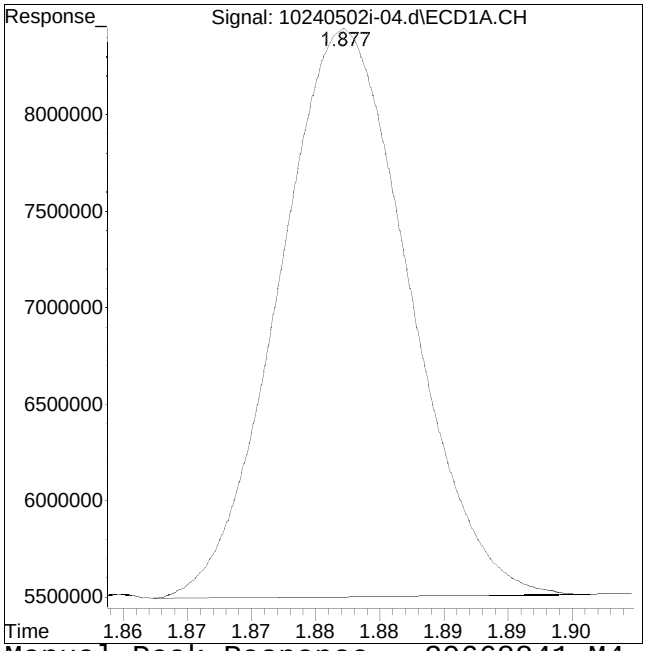
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-04.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 4:20 pm Instrument : Pest 10
Sample : il2pest,42e,,pp 11405 L0.0Quant Date : 5/7/2024 5:28 pm

Compound #3: Hexachlorobenzene



Original Peak Response = 20644055



Manual Peak Response = 20668841 M4

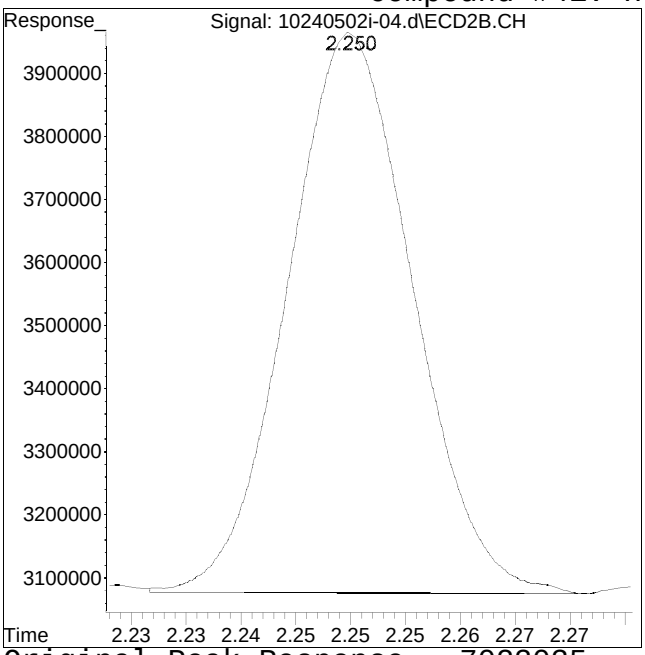
M4 = Poor automated baseline construction.

Manual Integration Report

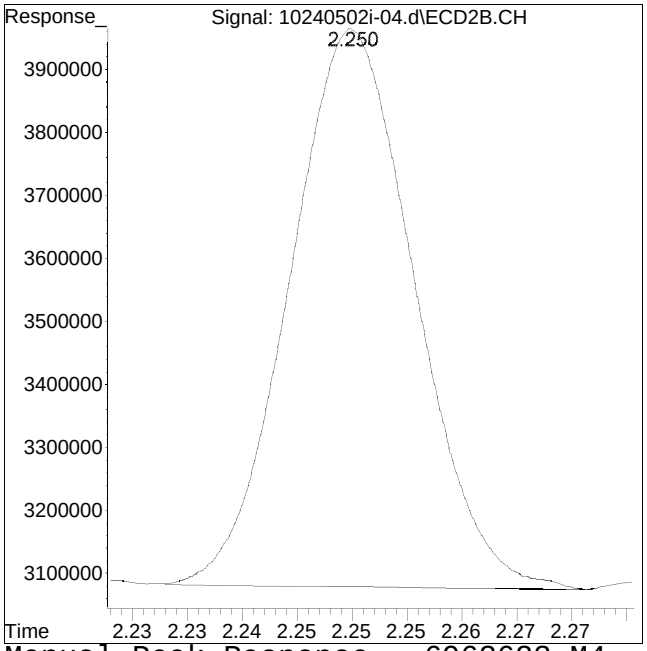
Data Path : I:\PEST\Pest10\2024\240502Q
Data File : 10240502i-04.d
Date Inj'd : 5/2/2024 4:20 pm
Sample : il2pest,42e,,pp 11405 L0.0

Method : pest10_2024_05_02_ugL_ic
Operator : PEST10:jag
Instrument : Pest 10
Quant Date : 5/7/2024 5:28 pm

Compound #41: Hexachlorobenzene #2



Original Peak Response = 7023035



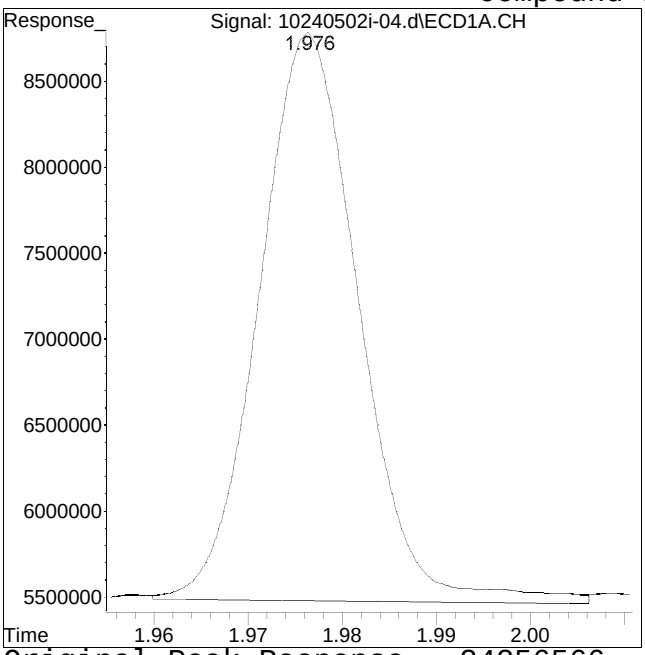
Manual Peak Response = 6963623 M4

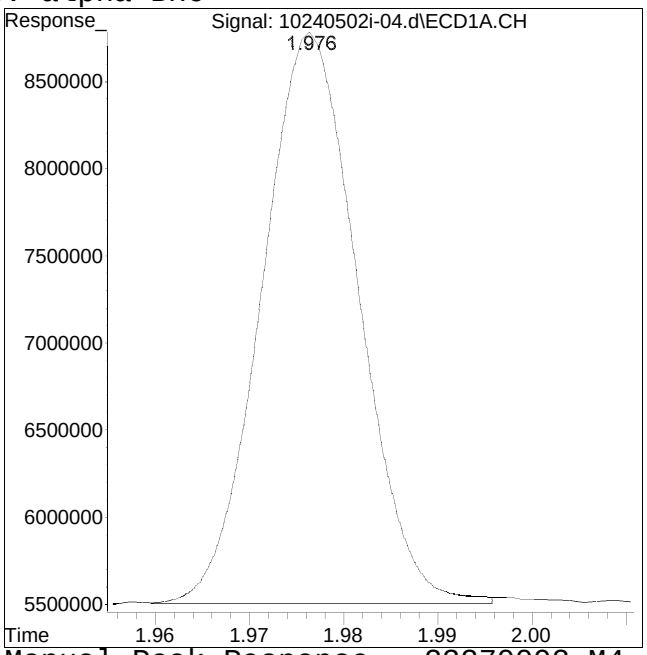
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-04.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 4:20 pm Instrument : Pest 10
Sample : il2pest,42e,,pp 11405 L0.0Quant Date : 5/7/2024 5:28 pm

Compound #4: alpha-BHC



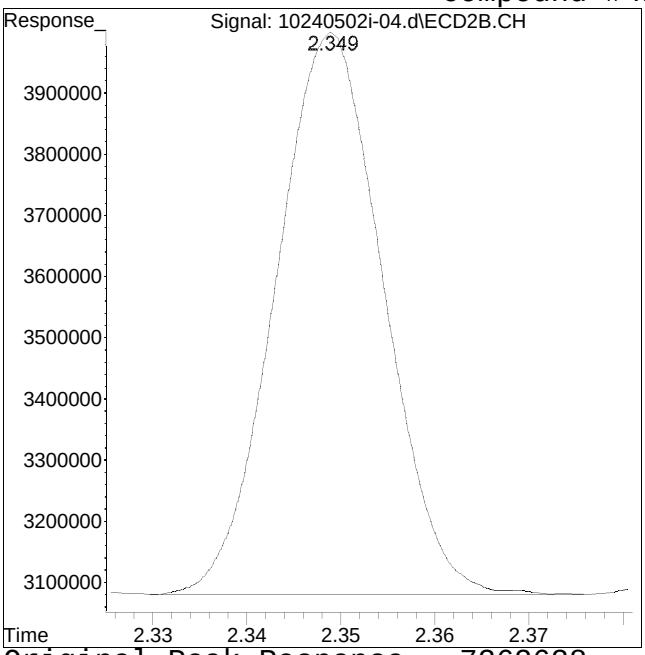


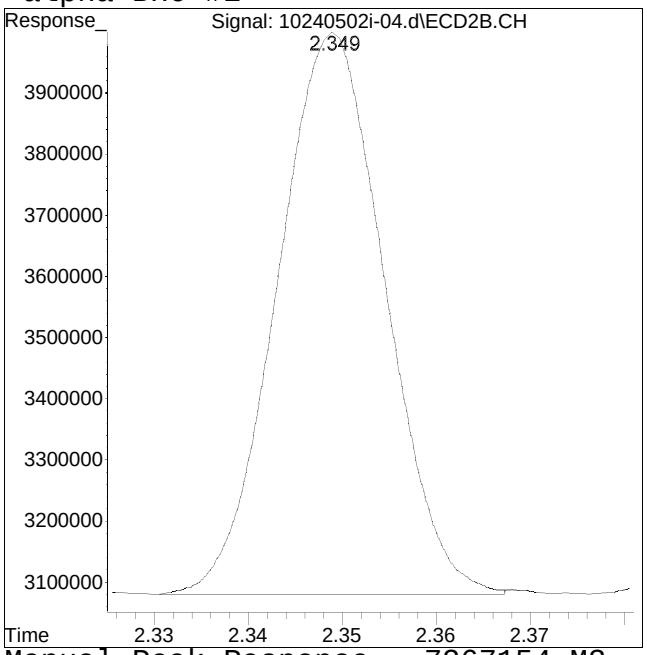
Original Peak Response = 24256566 Manual Peak Response = 23270092 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-04.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 4:20 pm Instrument : Pest 10
Sample : il2pest,42e,,pp 11405 L0.0Quant Date : 5/7/2024 5:28 pm

Compound #42: alpha-BHC #2



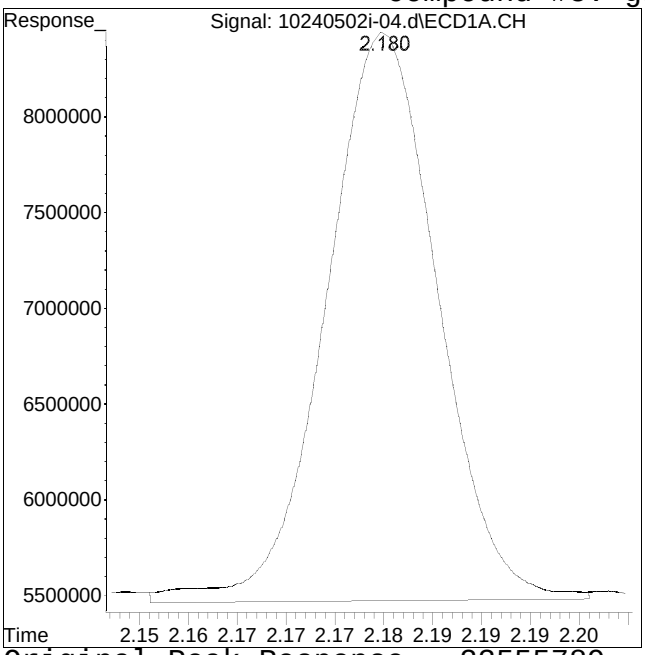


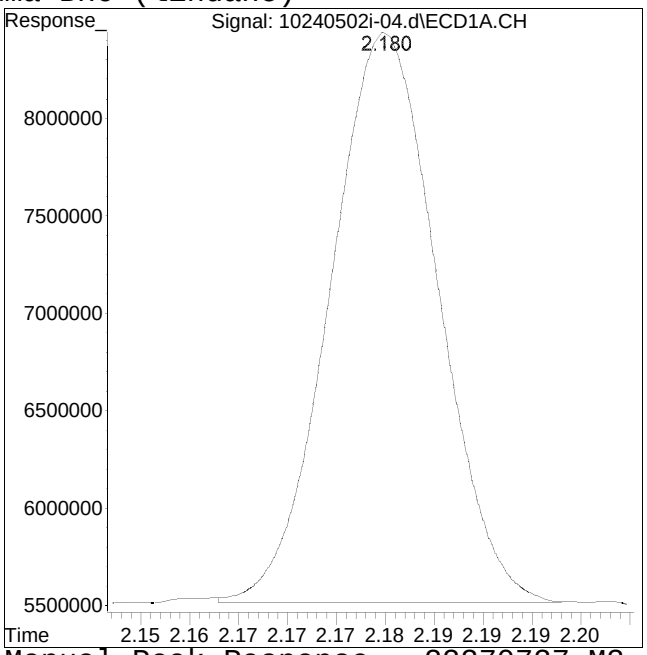
Original Peak Response = 7262628 Manual Peak Response = 7267154 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-04.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 4:20 pm Instrument : Pest 10
Sample : il2pest,42e,,pp 11405 L0.0Quant Date : 5/7/2024 5:28 pm

Compound #5: gamma-BHC (lindane)



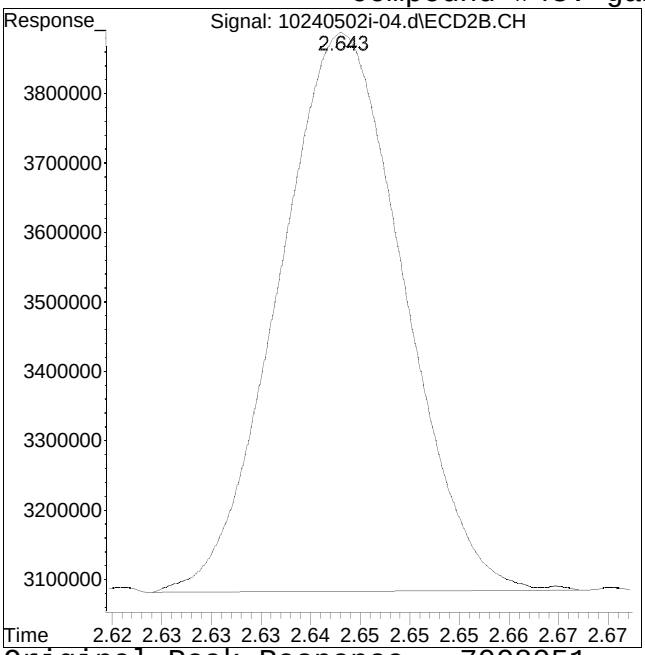


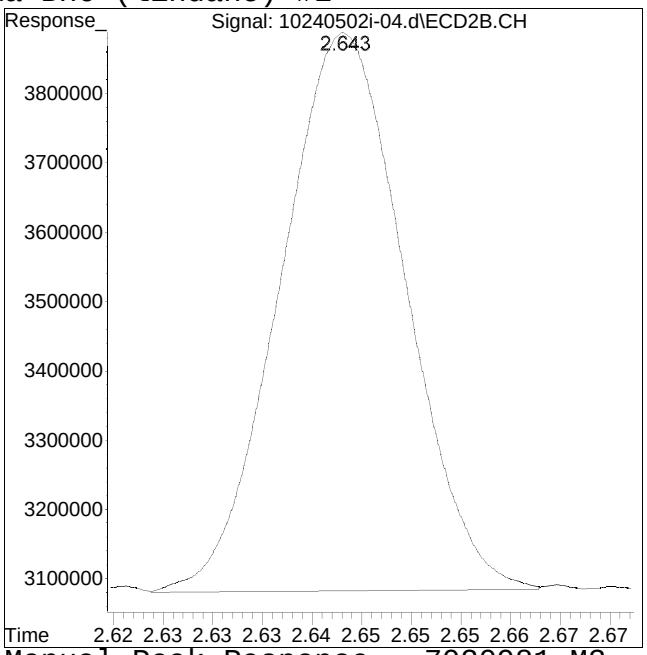
Original Peak Response = 23555789 Manual Peak Response = 22270737 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-04.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 4:20 pm Instrument : Pest 10
Sample : il2pest,42e,,pp 11405 L0.0Quant Date : 5/7/2024 5:28 pm

Compound #43: gamma-BHC (lindane) #2



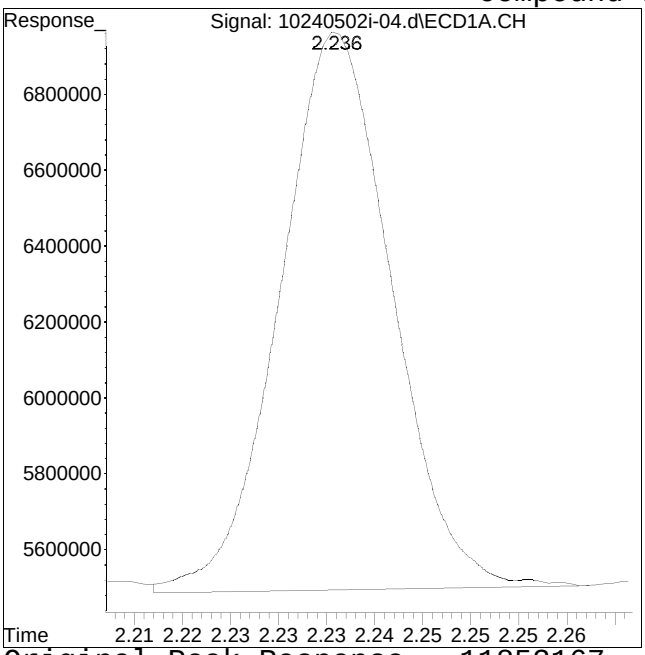


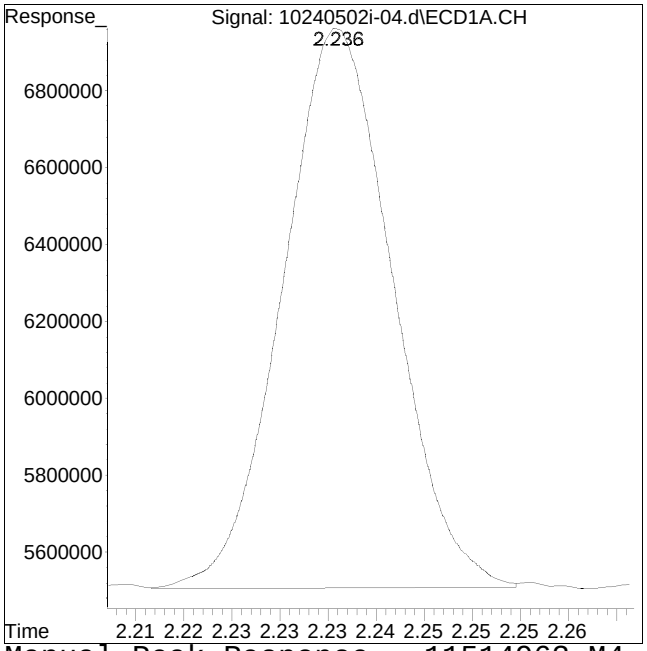
Original Peak Response = 7008051 Manual Peak Response = 7020981 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-04.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 4:20 pm Instrument : Pest 10
Sample : il2pest,42e,,pp 11405 L0.0Quant Date : 5/7/2024 5:28 pm

Compound #6: beta-BHC



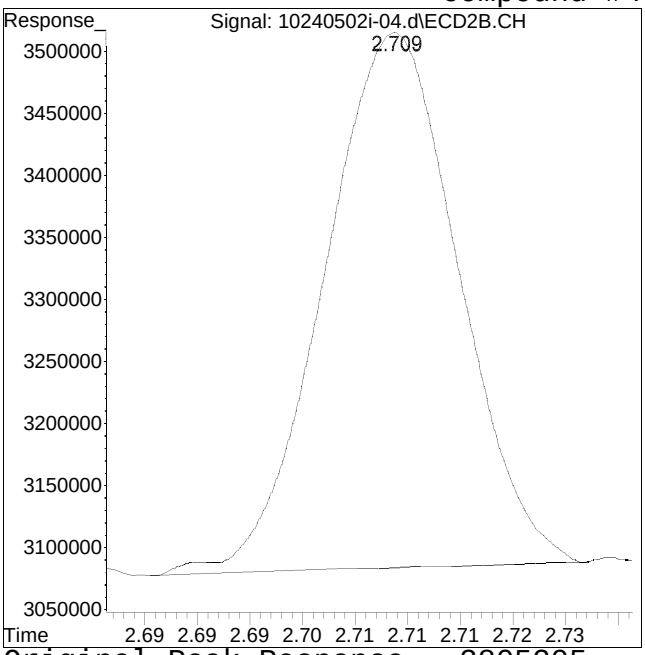


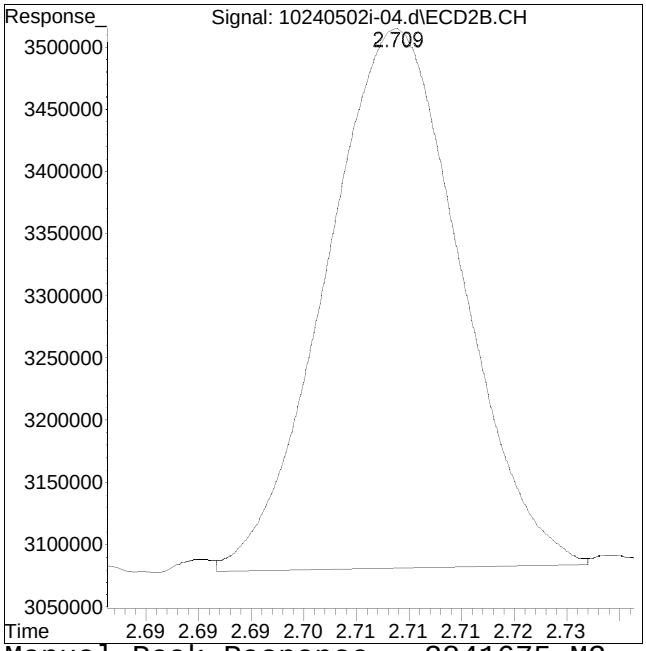
Original Peak Response = 11853167 Manual Peak Response = 11514963 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-04.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 4:20 pm Instrument : Pest 10
Sample : il2pest,42e,,pp 11405 L0.0Quant Date : 5/7/2024 5:28 pm

Compound #44: beta-BHC #2



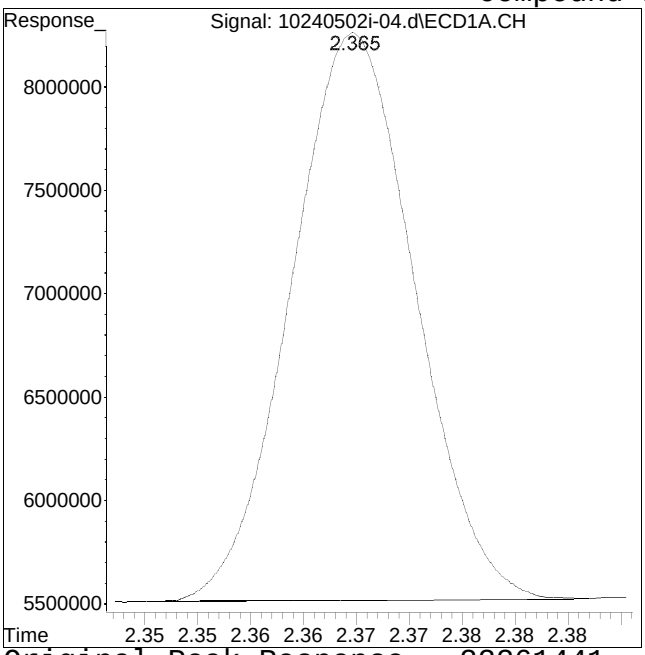


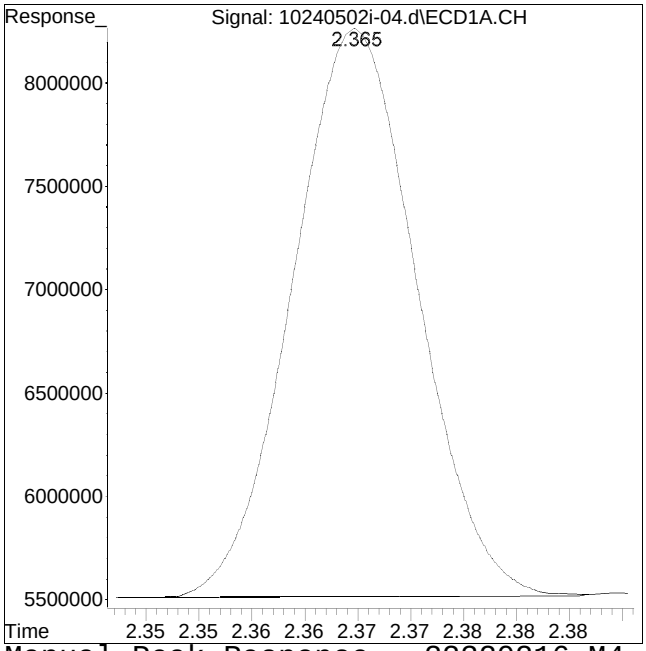
Original Peak Response = 3805205 Manual Peak Response = 3841675 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-04.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 4:20 pm Instrument : Pest 10
Sample : il2pest,42e,,pp 11405 L0.0Quant Date : 5/7/2024 5:28 pm

Compound #7: delta-BHC



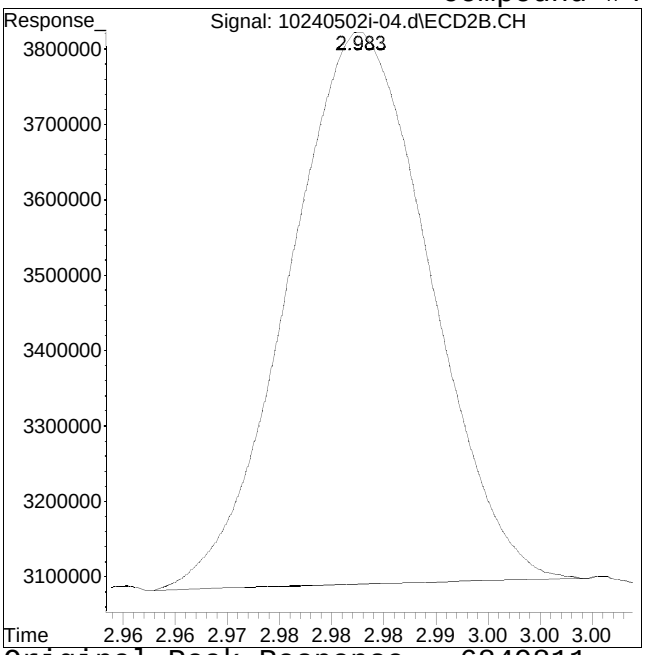


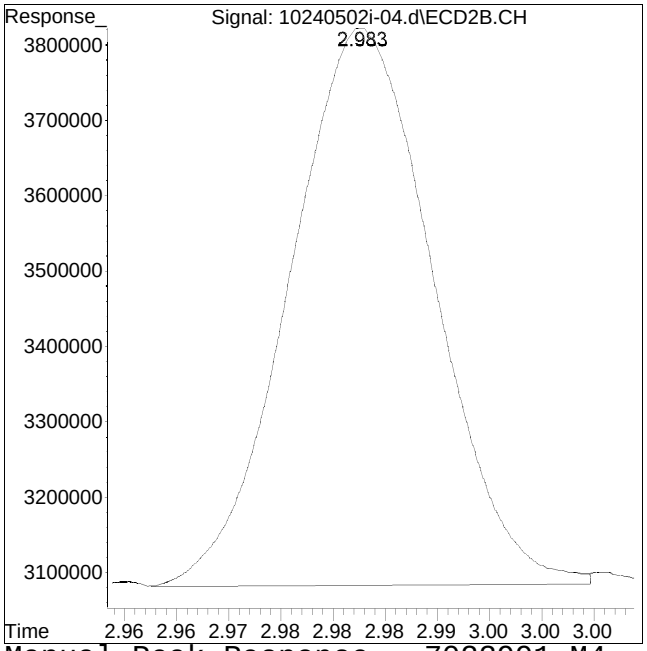
Original Peak Response = 22261441 Manual Peak Response = 22320216 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-04.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 4:20 pm Instrument : Pest 10
Sample : il2pest,42e,,pp 11405 L0.0Quant Date : 5/7/2024 5:28 pm

Compound #45: delta-BHC #2



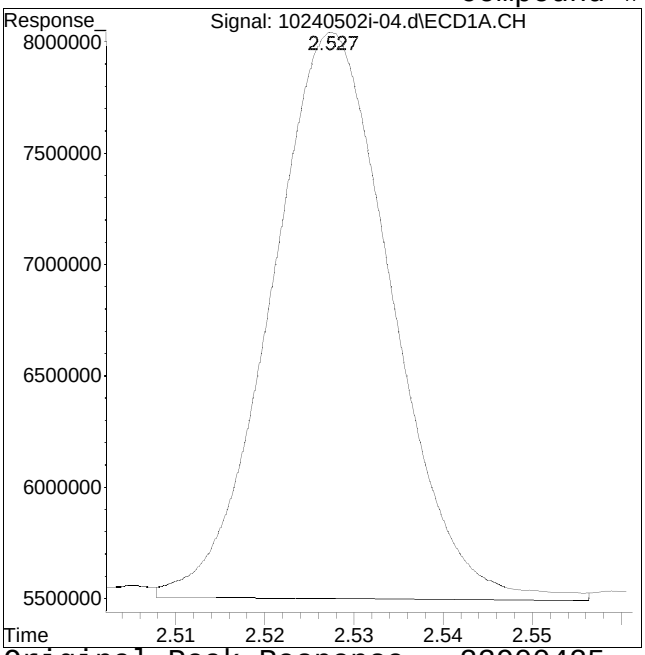


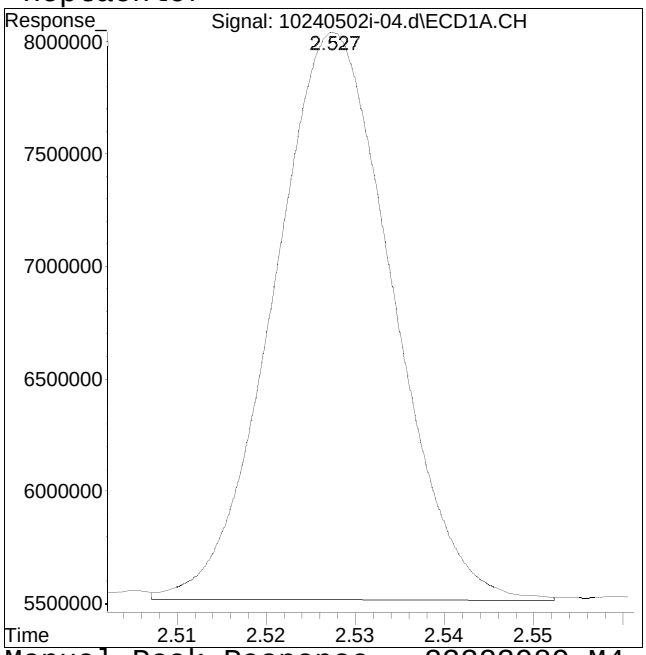
Original Peak Response = 6849811 Manual Peak Response = 7023991 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-04.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 4:20 pm Instrument : Pest 10
Sample : il2pest,42e,,pp 11405 L0.0Quant Date : 5/7/2024 5:28 pm

Compound #8: Heptachlor





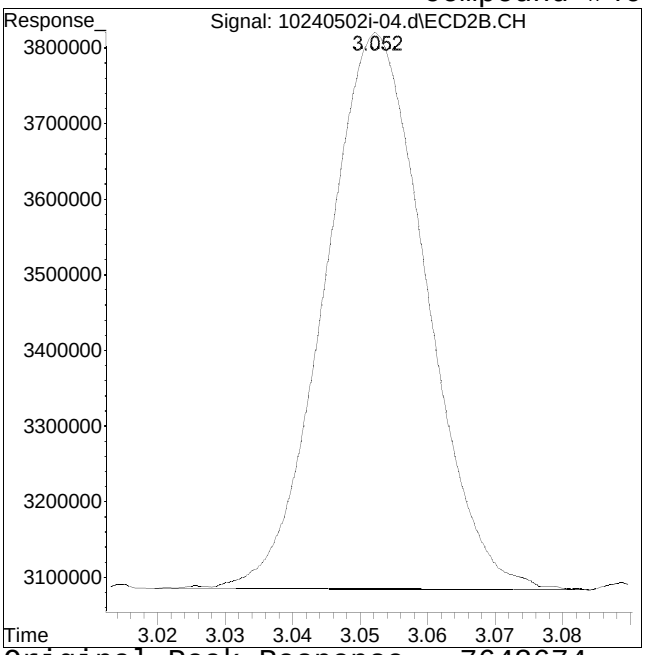
Original Peak Response = 23900425 Manual Peak Response = 23323989 M4
M4 = Poor automated baseline construction.

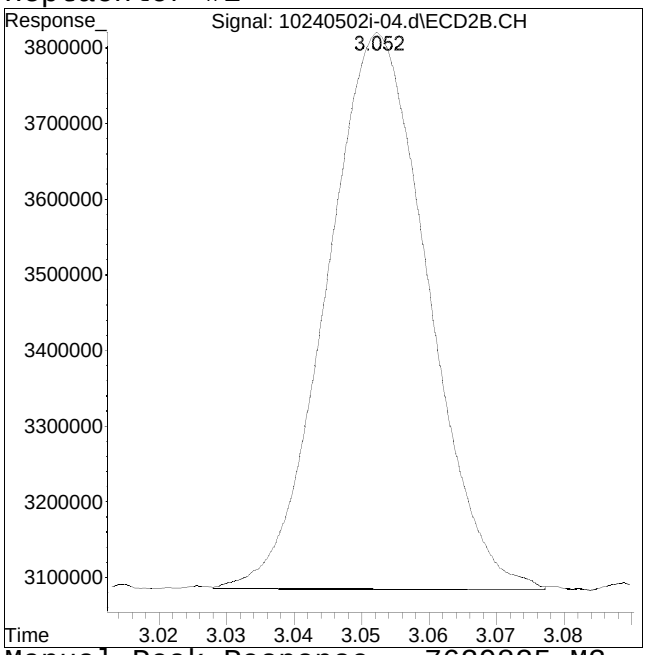
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502Q
Data File : 10240502i-04.d
Date Inj'd : 5/2/2024 4:20 pm
Sample : il2pest,42e,,pp 11405 L0.0

Method : pest10_2024_05_02_ugL_ic
Operator : PEST10:jag
Instrument : Pest 10
Quant Date : 5/7/2024 5:28 pm

Compound #46: Heptachlor #2





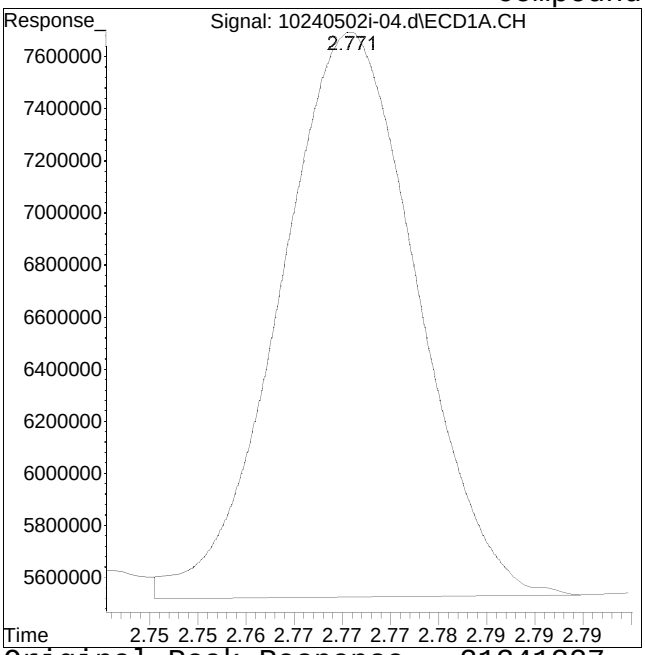
Original Peak Response = 7643674 Manual Peak Response = 7629825 M3

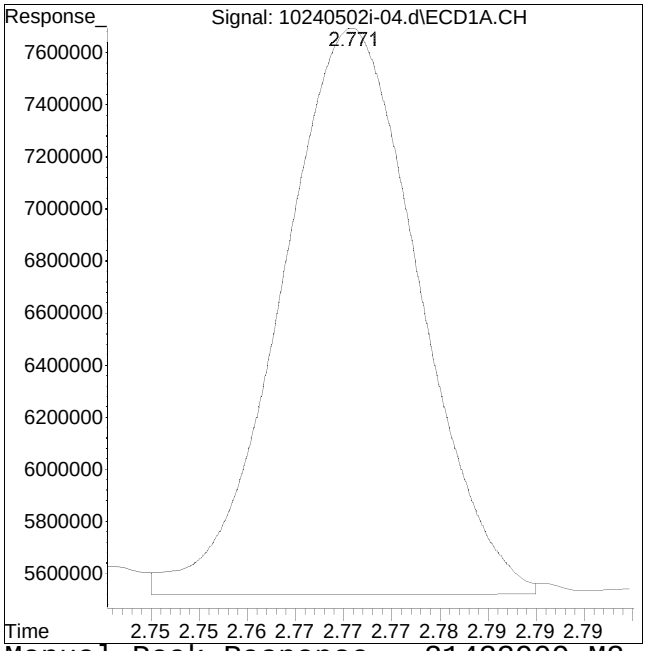
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-04.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 4:20 pm Instrument : Pest 10
Sample : il2pest,42e,,pp 11405 L0.0Quant Date : 5/7/2024 5:28 pm

Compound #9: Aldrin



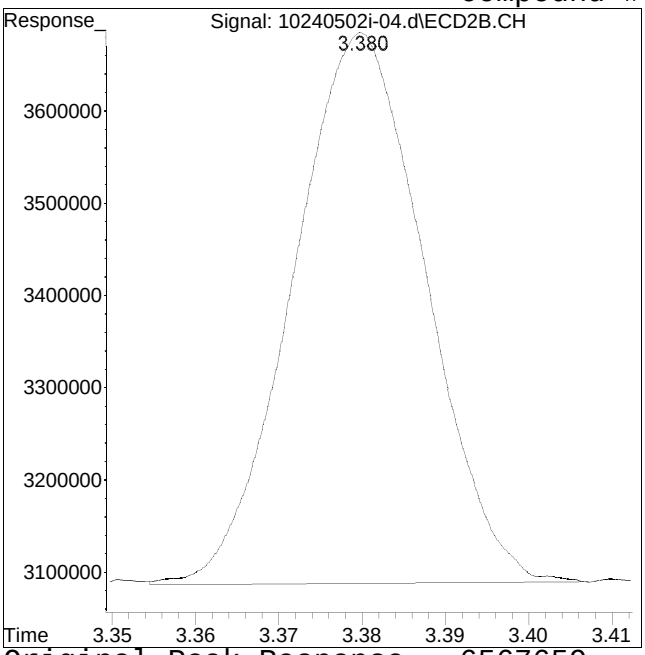


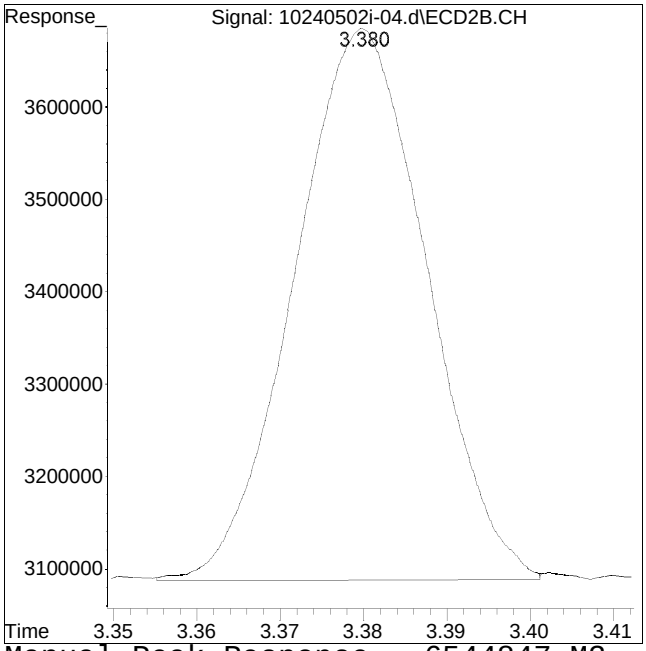
Original Peak Response = 21341227 Manual Peak Response = 21433909 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-04.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 4:20 pm Instrument : Pest 10
Sample : il2pest,42e,,pp 11405 L0.0Quant Date : 5/7/2024 5:28 pm

Compound #47: Aldrin #2





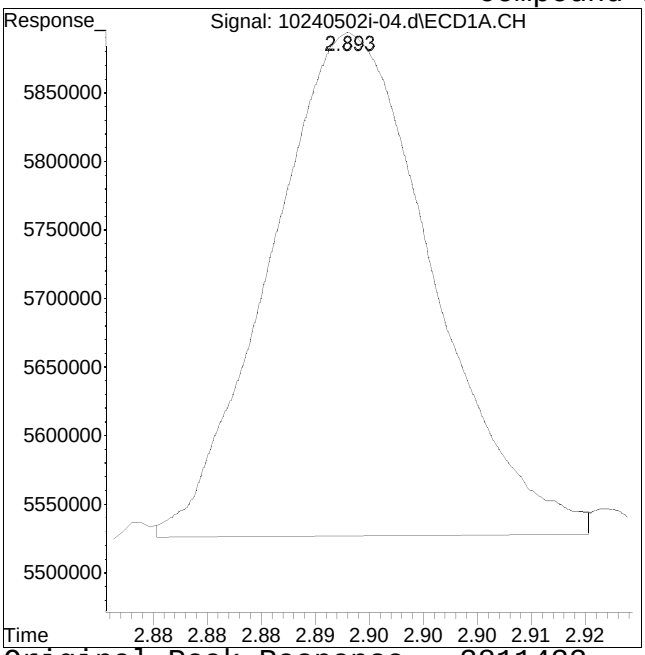
Original Peak Response = 6567659 Manual Peak Response = 6544847 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

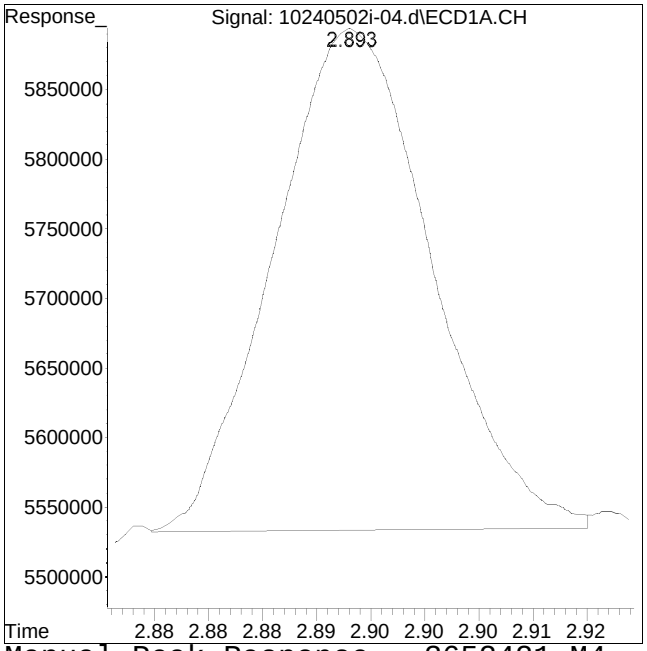
Data Path : I:\PEST\Pest10\2024\240502Q
Data File : 10240502i-04.d
Date Inj'd : 5/2/2024 4:20 pm
Sample : il2pest,42e,,pp 11405 L0.0

Method : pest10_2024_05_02_ugL_ic
Operator : PEST10:jag
Instrument : Pest 10
Quant Date : 5/7/2024 5:28 pm

Compound #10: Alachlor



Original Peak Response = 3811433



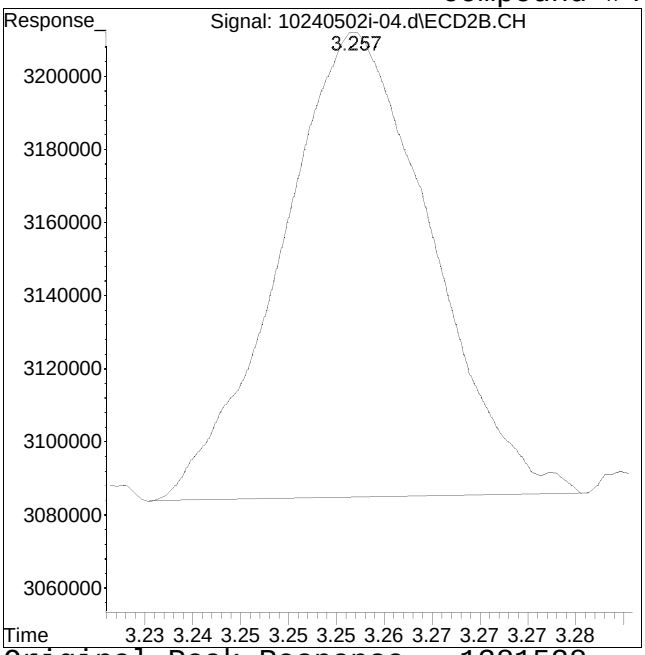
Manual Peak Response = 3652421 M4

M4 = Poor automated baseline construction.

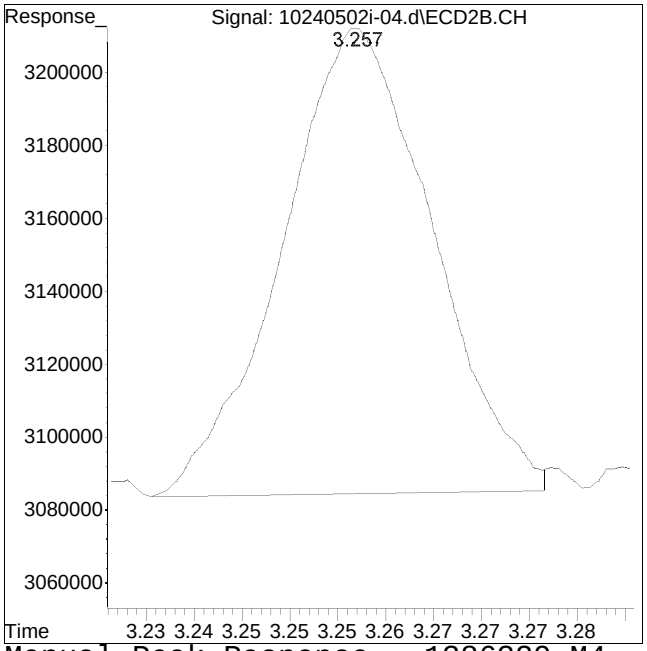
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-04.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 4:20 pm Instrument : Pest 10
Sample : il2pest,42e,,pp 11405 L0.0Quant Date : 5/7/2024 5:28 pm

Compound #48: Alachlor #2



Original Peak Response = 1381528



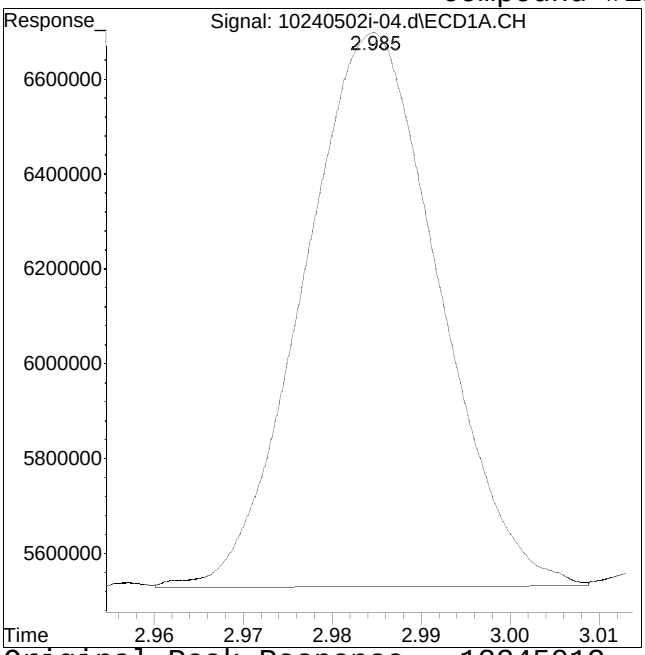
Manual Peak Response = 1386329 M4

M4 = Poor automated baseline construction.

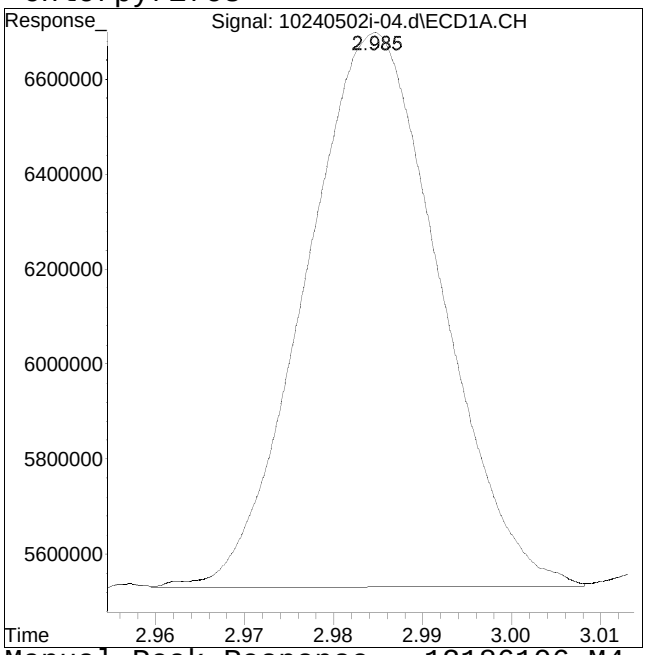
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-04.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 4:20 pm Instrument : Pest 10
Sample : il2pest,42e,,pp 11405 L0.0Quant Date : 5/7/2024 5:28 pm

Compound #11: Chlorpyrifos



Original Peak Response = 12245012



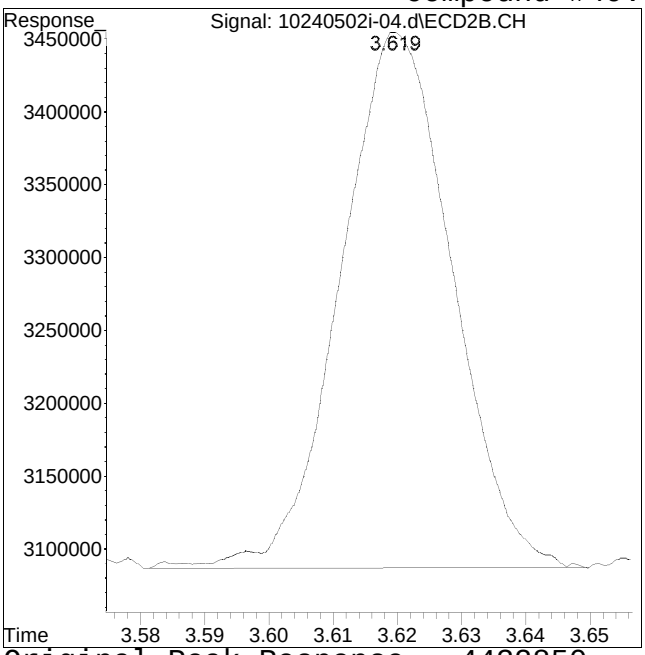
Manual Peak Response = 12186106 M4

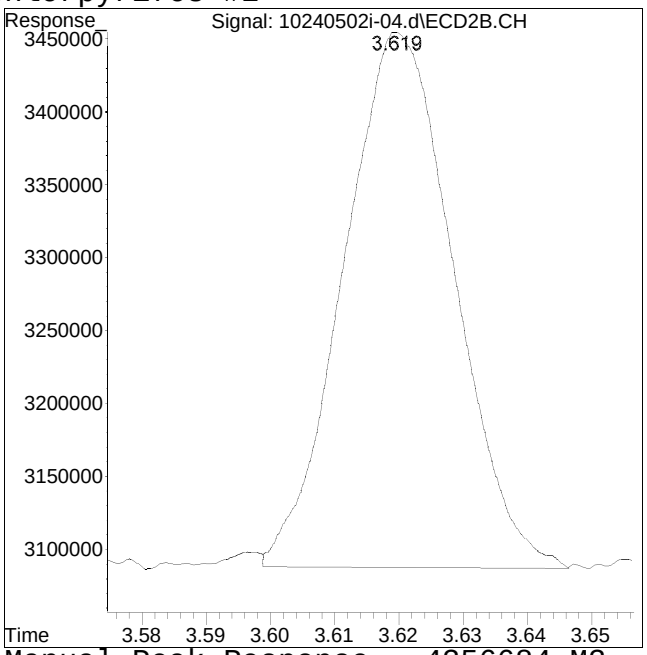
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-04.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 4:20 pm Instrument : Pest 10
Sample : il2pest,42e,,pp 11405 L0.0Quant Date : 5/7/2024 5:28 pm

Compound #49: Chlorpyrifos #2



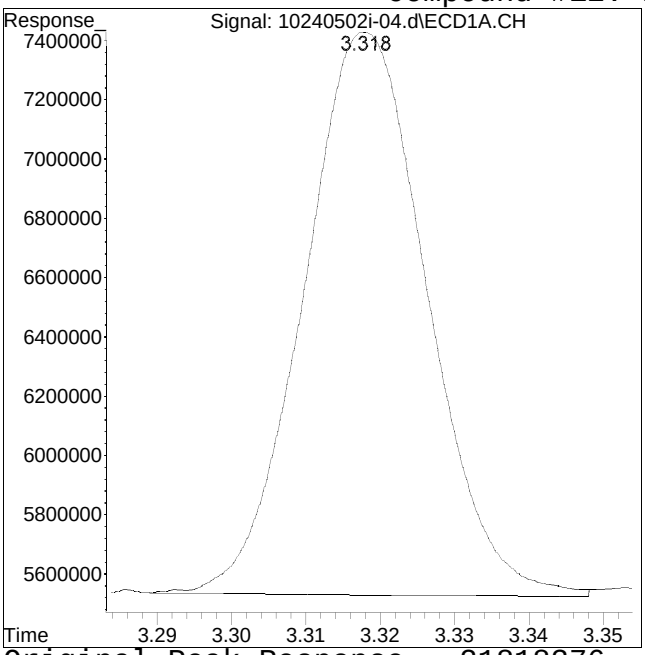


Original Peak Response = 4432850 Manual Peak Response = 4356684 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

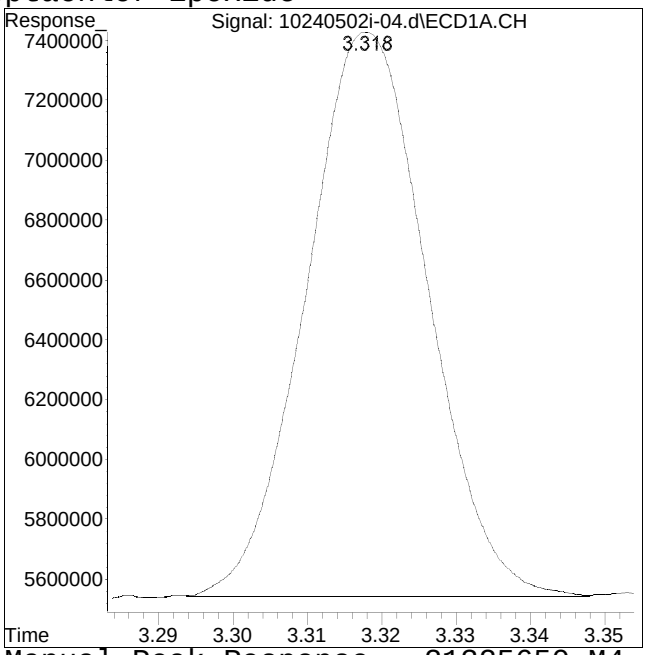
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-04.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 4:20 pm Instrument : Pest 10
Sample : il2pest,42e,,pp 11405 L0.0Quant Date : 5/7/2024 5:28 pm

Compound #12: Heptachlor Epoxide



Original Peak Response = 21818376

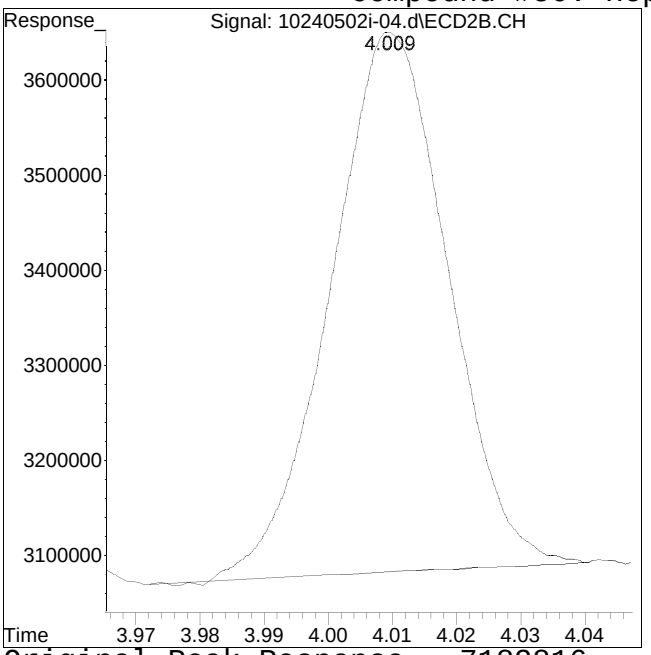


Manual Peak Response = 21325650 M4
M4 = Poor automated baseline construction.

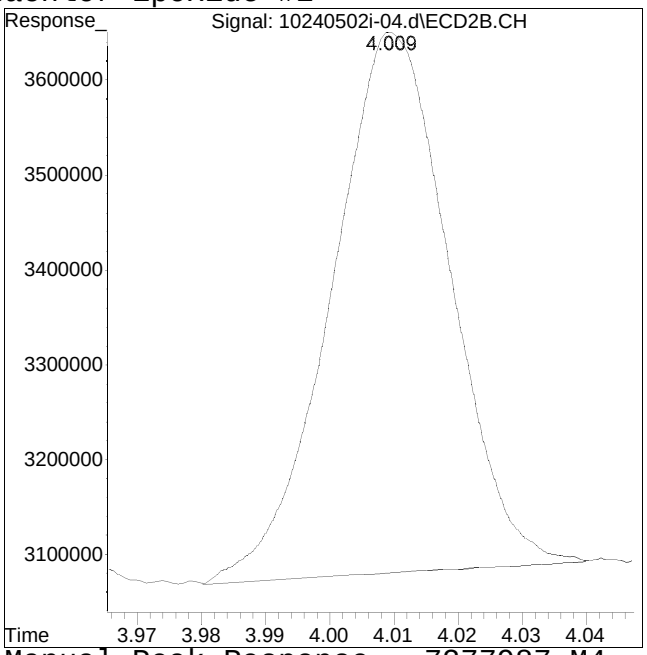
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-04.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 4:20 pm Instrument : Pest 10
Sample : il2pest,42e,,pp 11405 L0.0Quant Date : 5/7/2024 5:28 pm

Compound #50: Heptachlor Epoxide #2



Original Peak Response = 7182816



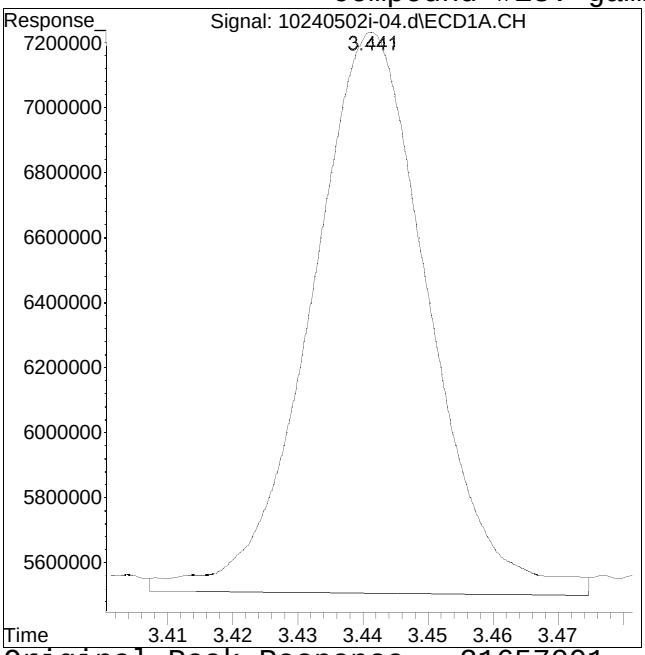
Manual Peak Response = 7277987 M4

M4 = Poor automated baseline construction.

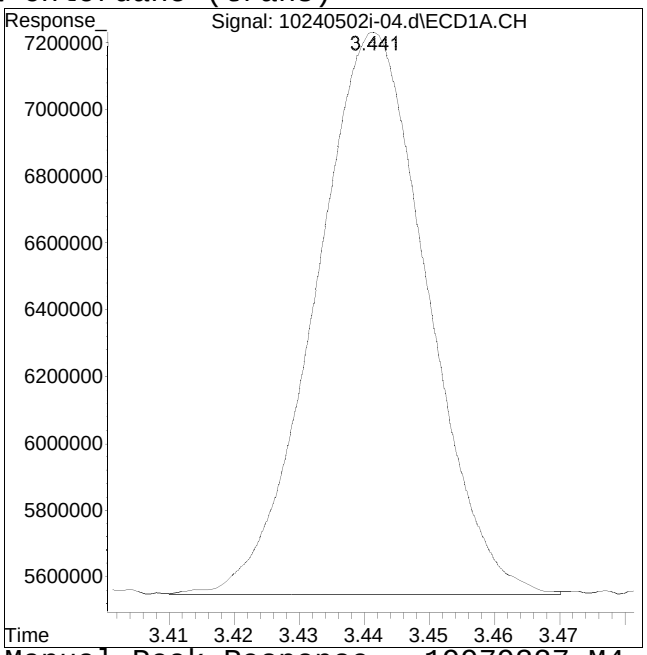
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-04.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 4:20 pm Instrument : Pest 10
Sample : il2pest,42e,,pp 11405 L0.0Quant Date : 5/7/2024 5:28 pm

Compound #13: gamma-Chlordane (trans)



Original Peak Response = 21657091



Manual Peak Response = 19979327 M4

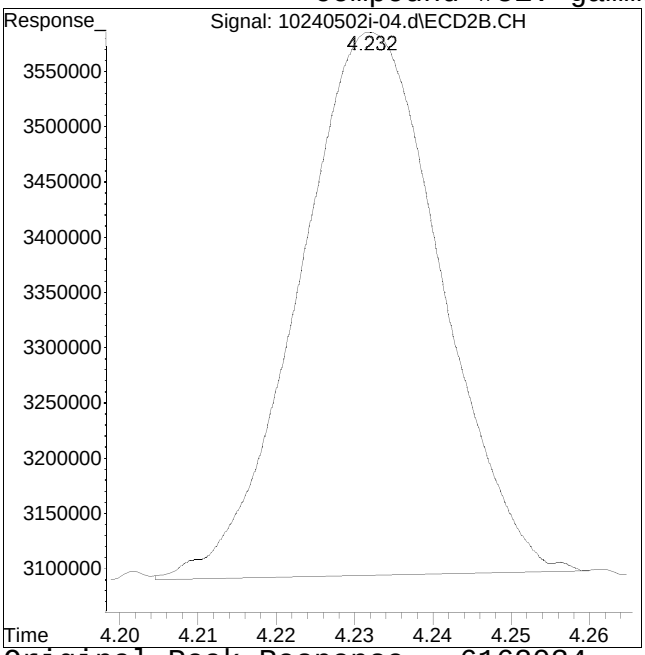
M4 = Poor automated baseline construction.

Manual Integration Report

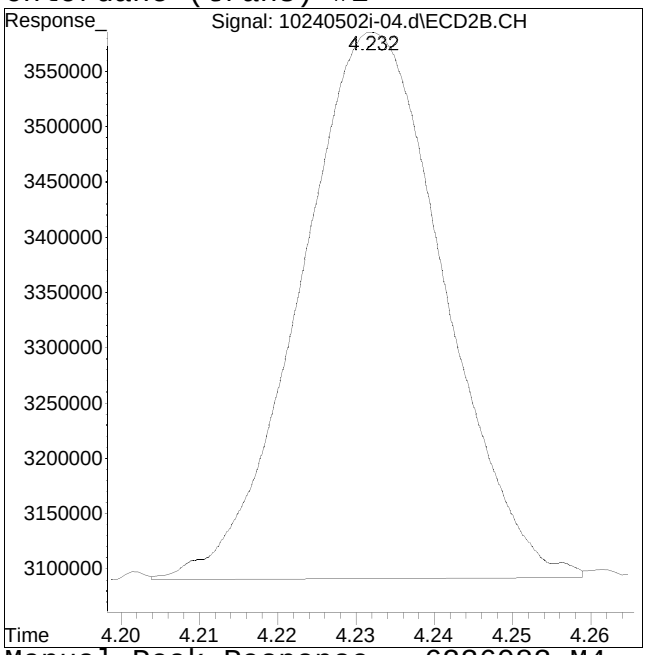
Data Path : I:\PEST\Pest10\2024\240502Q
Data File : 10240502i-04.d
Date Inj'd : 5/2/2024 4:20 pm
Sample : il2pest,42e,,pp 11405 L0.0

Method : pest10_2024_05_02_ugL_ic
Operator : PEST10:jag
Instrument : Pest 10
Quant Date : 5/7/2024 5:28 pm

Compound #51: gamma-Chlordane (trans) #2



Original Peak Response = 6162034



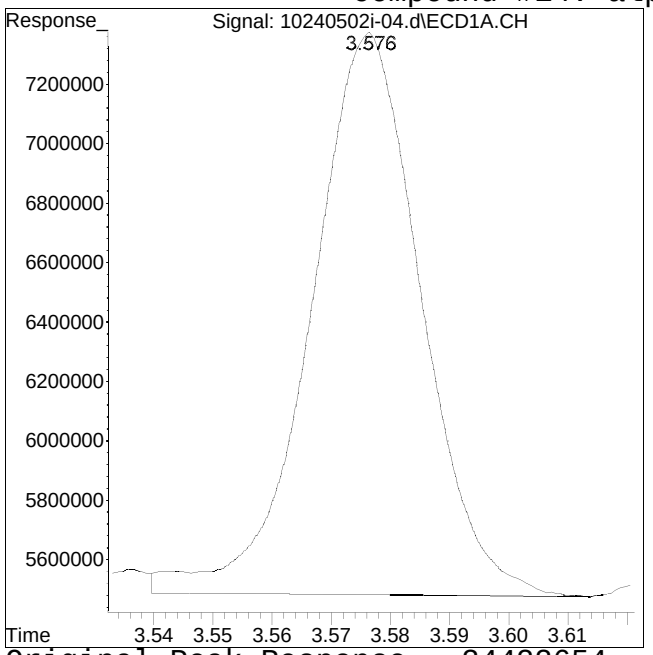
Manual Peak Response = 6236083 M4

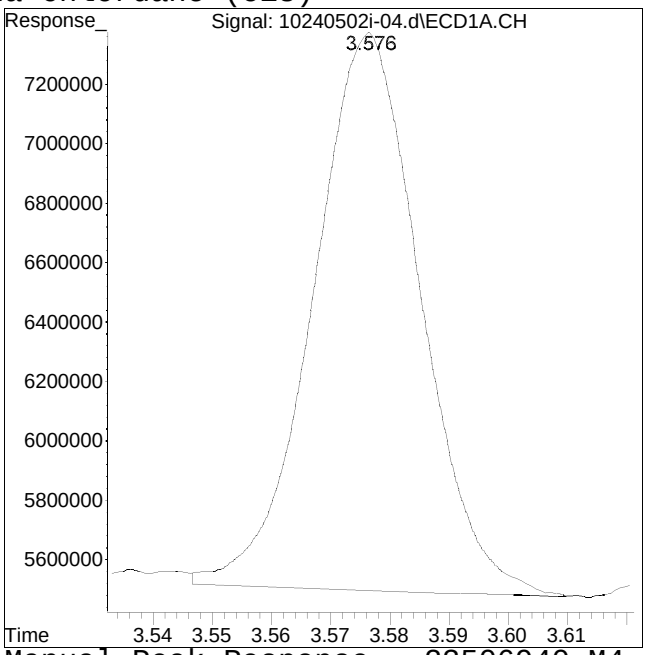
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-04.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 4:20 pm Instrument : Pest 10
Sample : il2pest,42e,,pp 11405 L0.0Quant Date : 5/7/2024 5:28 pm

Compound #14: alpha-Chlordane (cis)



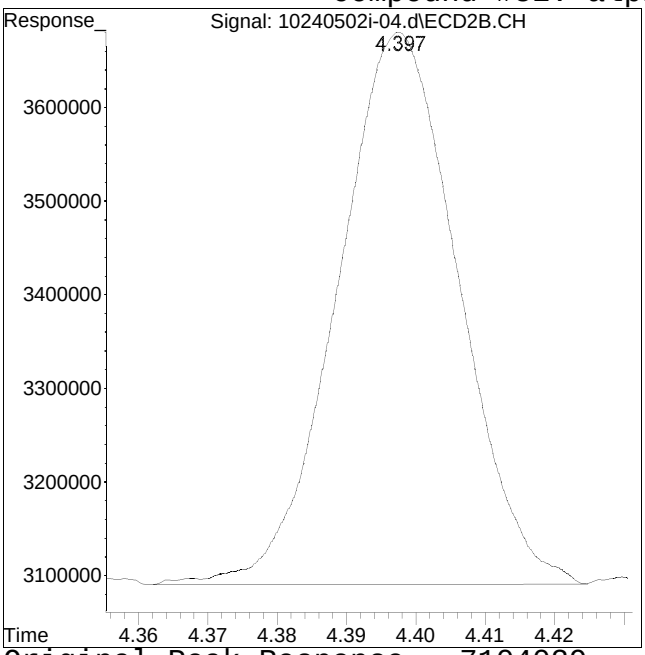


Original Peak Response = 24422654 Manual Peak Response = 23506940 M4
M4 = Poor automated baseline construction.

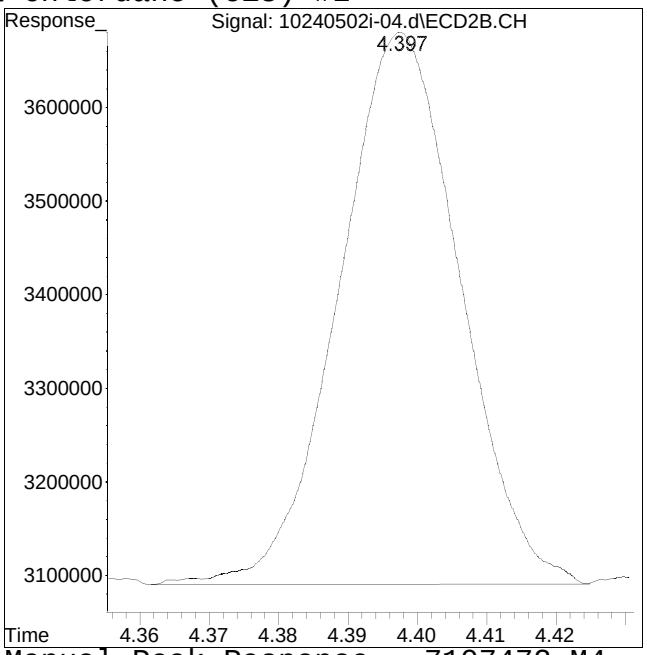
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-04.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 4:20 pm Instrument : Pest 10
Sample : il2pest,42e,,pp 11405 L0.0Quant Date : 5/7/2024 5:28 pm

Compound #52: alpha-Chlordane (cis) #2



Original Peak Response = 7104029



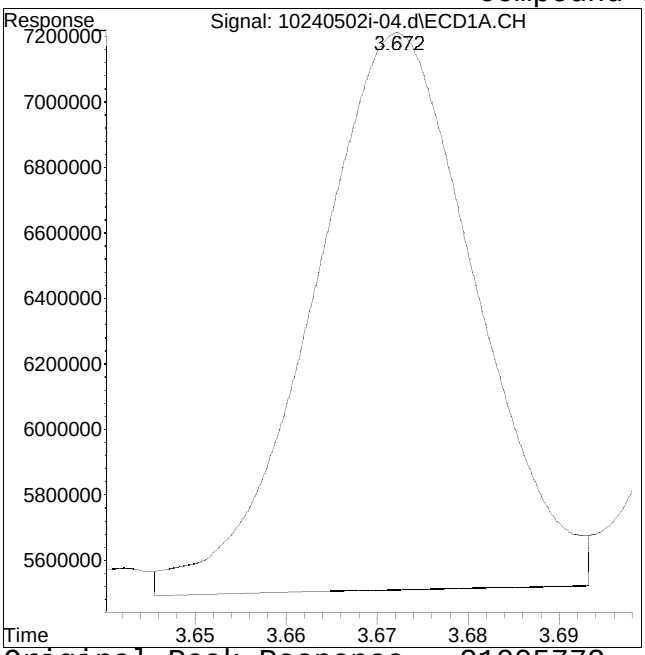
Manual Peak Response = 7107472 M4

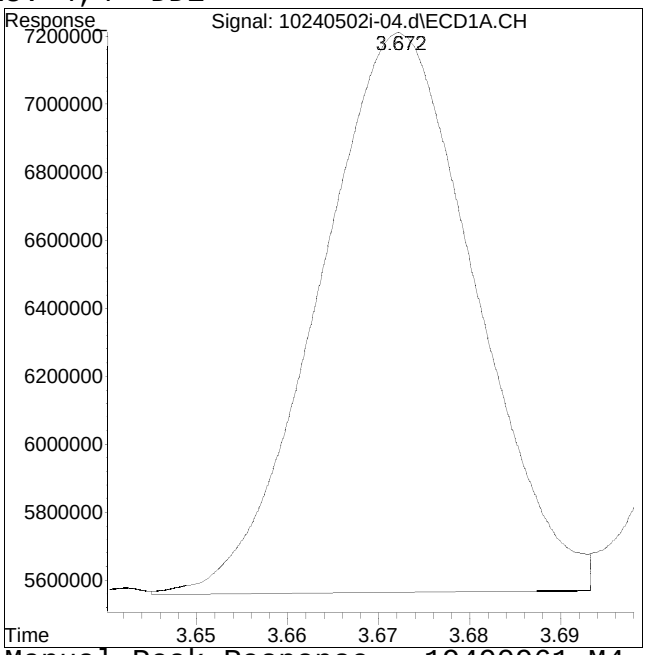
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-04.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 4:20 pm Instrument : Pest 10
Sample : il2pest,42e,,pp 11405 L0.0Quant Date : 5/7/2024 5:28 pm

Compound #15: 4,4'-DDE



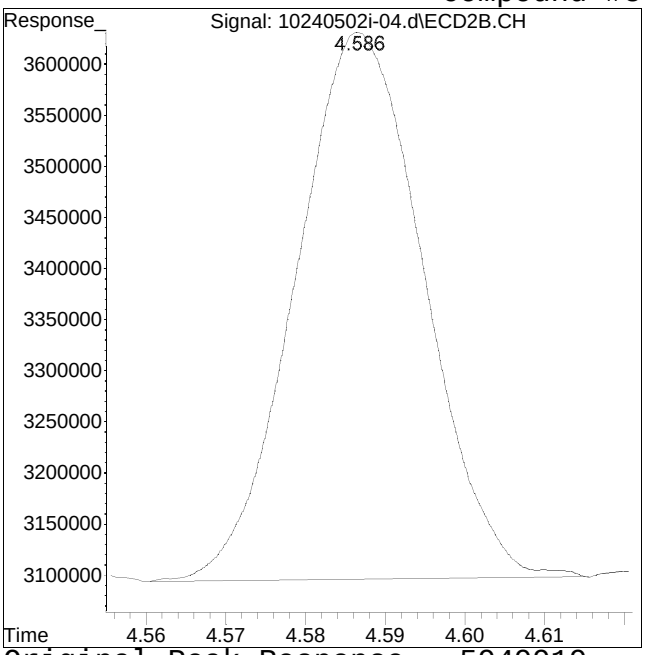


Original Peak Response = 21005772 Manual Peak Response = 19490961 M4
M4 = Poor automated baseline construction.

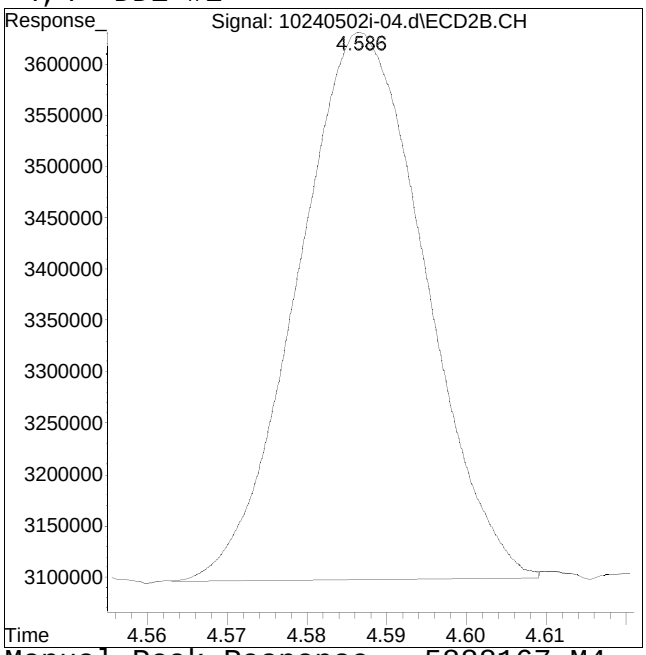
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-04.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 4:20 pm Instrument : Pest 10
Sample : il2pest,42e,,pp 11405 L0.0Quant Date : 5/7/2024 5:28 pm

Compound #53: 4,4'-DDE #2



Original Peak Response = 5949919



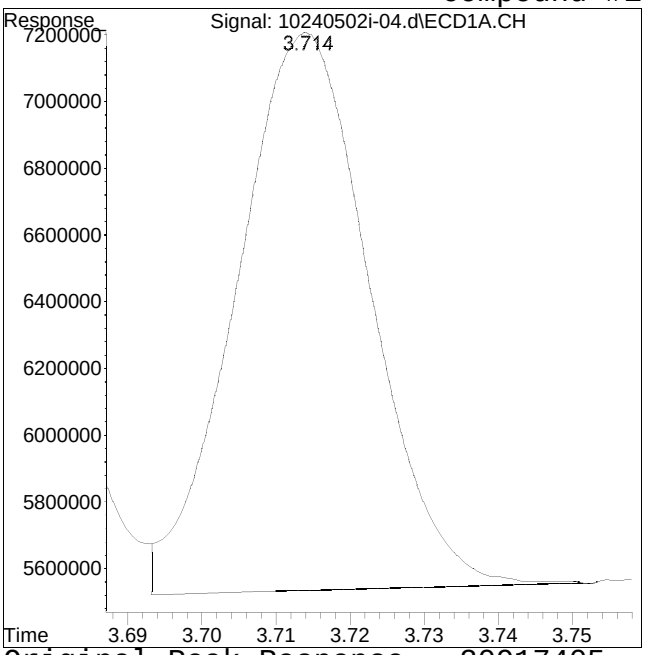
Manual Peak Response = 5888167 M4

M4 = Poor automated baseline construction.

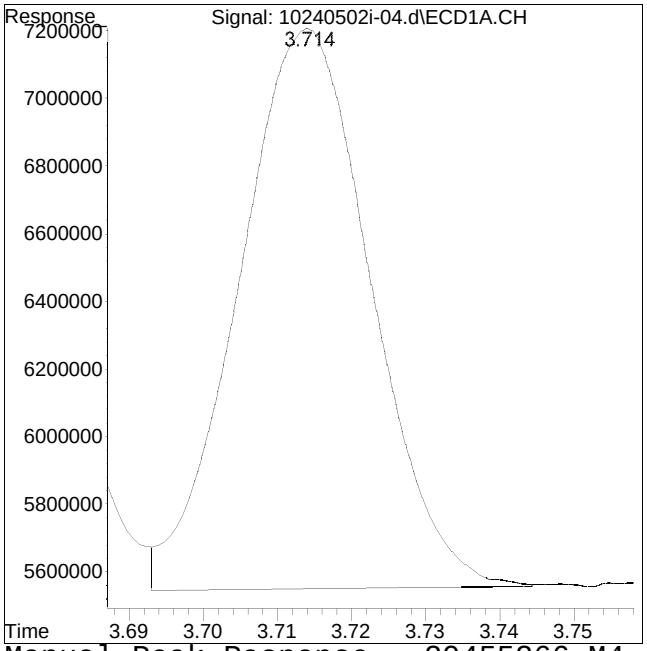
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-04.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 4:20 pm Instrument : Pest 10
Sample : il2pest,42e,,pp 11405 L0.0Quant Date : 5/7/2024 5:28 pm

Compound #16: Endosulfan I



Original Peak Response = 20917405



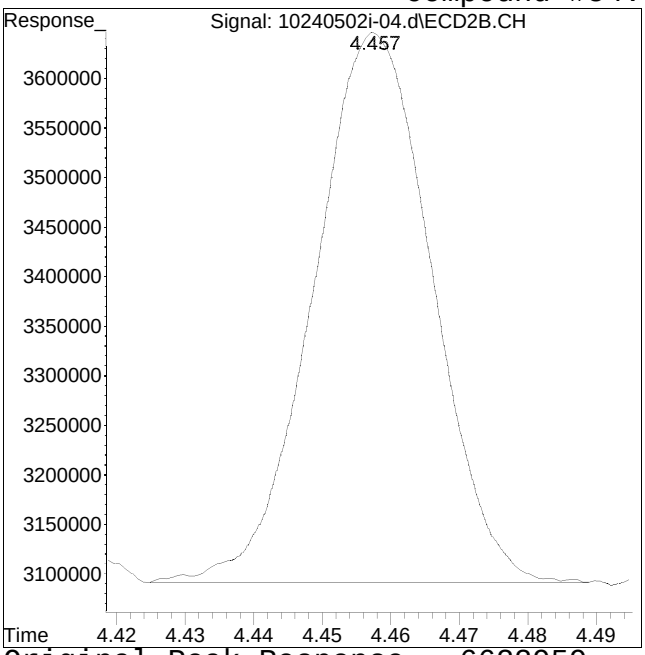
Manual Peak Response = 20455266 M4

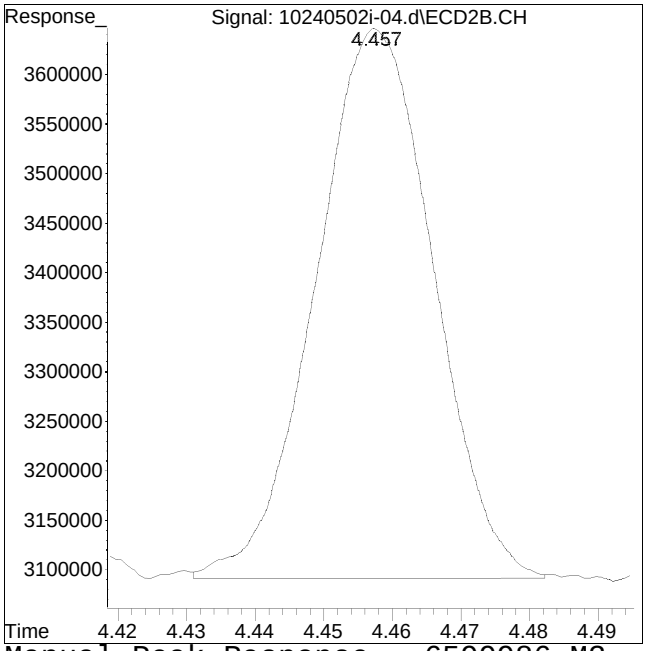
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-04.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 4:20 pm Instrument : Pest 10
Sample : il2pest,42e,,pp 11405 L0.0Quant Date : 5/7/2024 5:28 pm

Compound #54: Endosulfan I #2



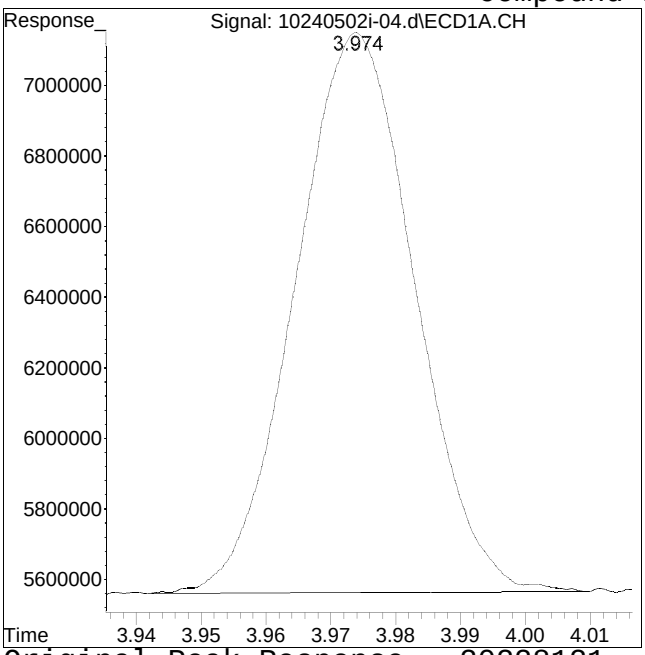


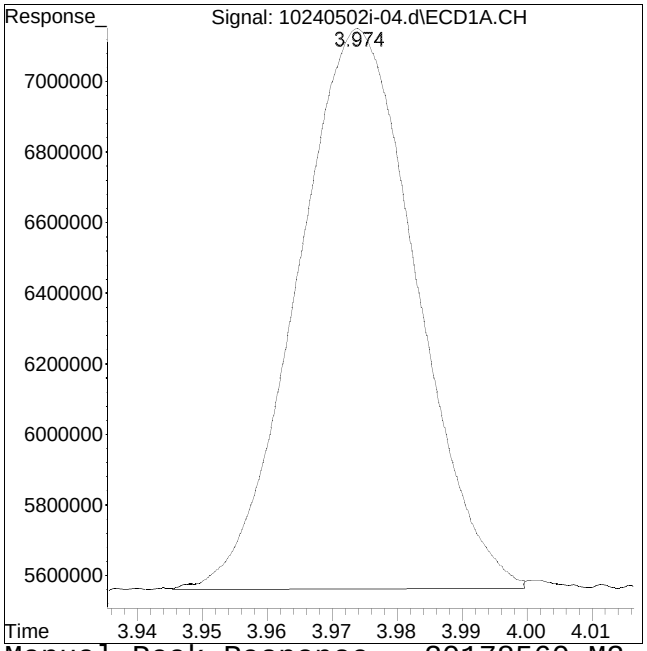
Original Peak Response = 6622959 Manual Peak Response = 6599986 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-04.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 4:20 pm Instrument : Pest 10
Sample : il2pest,42e,,pp 11405 L0.0Quant Date : 5/7/2024 5:28 pm

Compound #17: Dieldrin



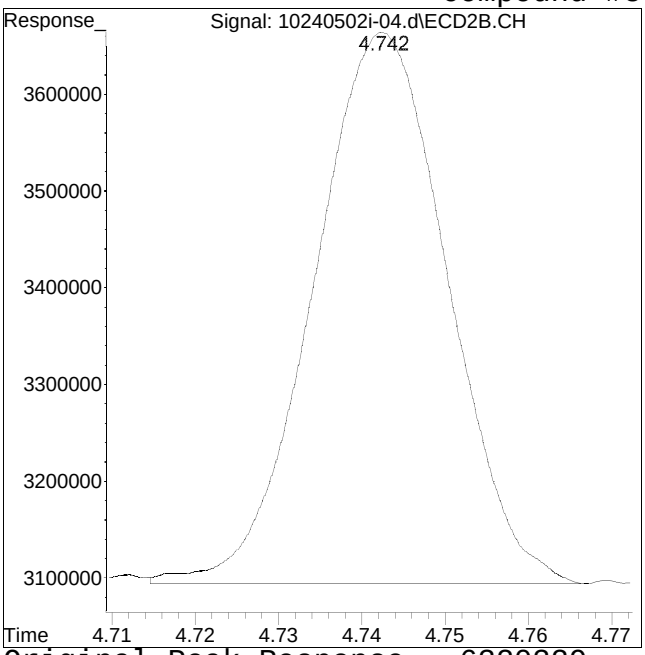


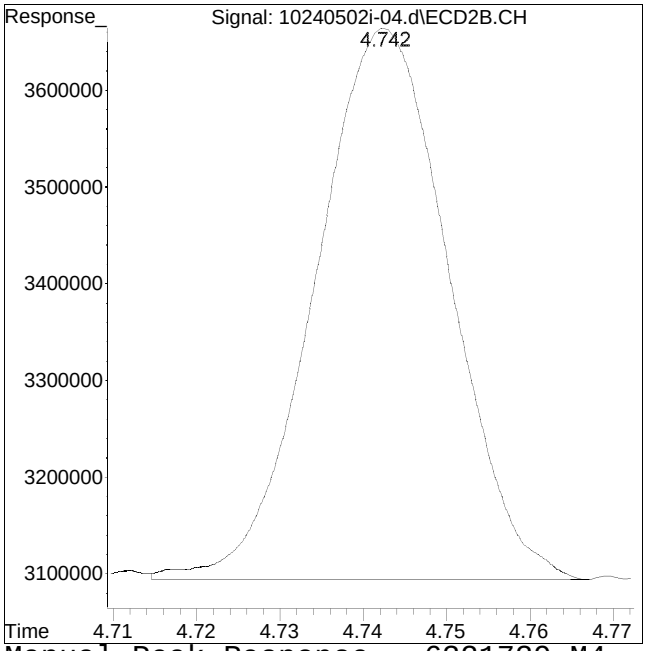
Original Peak Response = 20228121 Manual Peak Response = 20178560 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-04.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 4:20 pm Instrument : Pest 10
Sample : il2pest,42e,,pp 11405 L0.0Quant Date : 5/7/2024 5:28 pm

Compound #55: Dieldrin #2



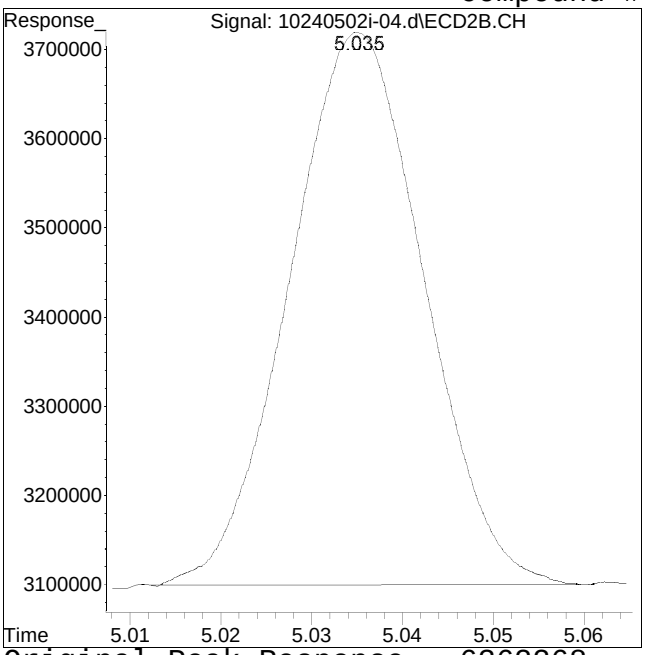


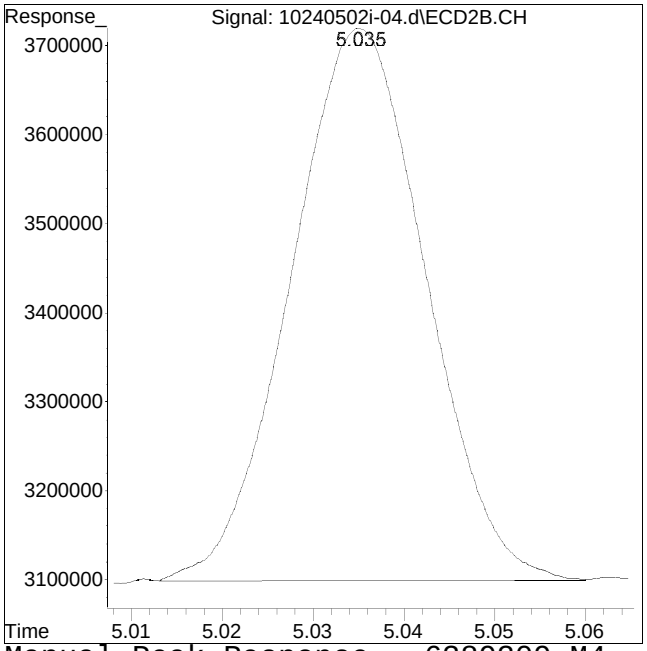
Original Peak Response = 6320329 Manual Peak Response = 6321739 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-04.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 4:20 pm Instrument : Pest 10
Sample : il2pest,42e,,pp 11405 L0.0Quant Date : 5/7/2024 5:28 pm

Compound #56: Endrin #2



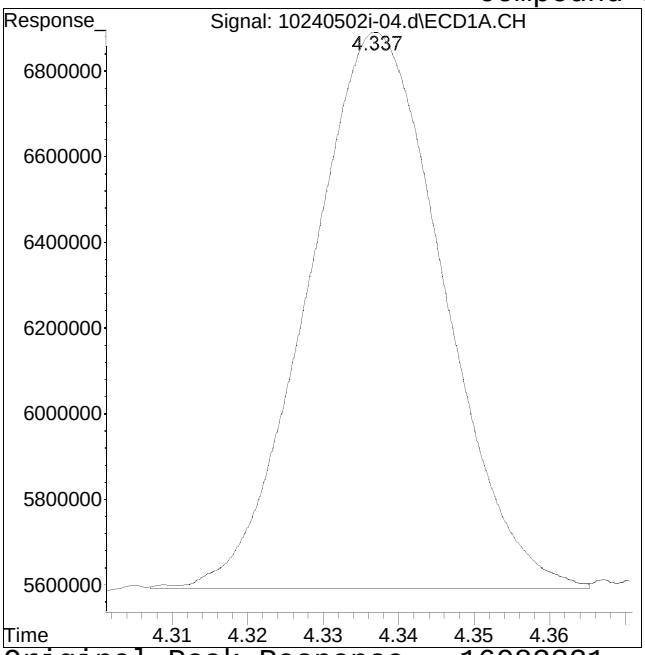


Original Peak Response = 6362268 Manual Peak Response = 6389309 M4
M4 = Poor automated baseline construction.

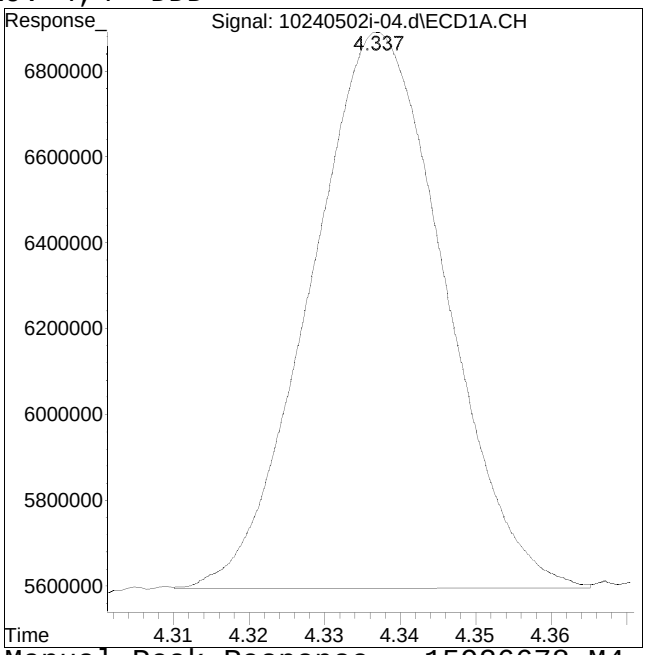
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-04.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 4:20 pm Instrument : Pest 10
Sample : il2pest,42e,,pp 11405 L0.0Quant Date : 5/7/2024 5:28 pm

Compound #19: 4,4'-DDD



Original Peak Response = 16083331



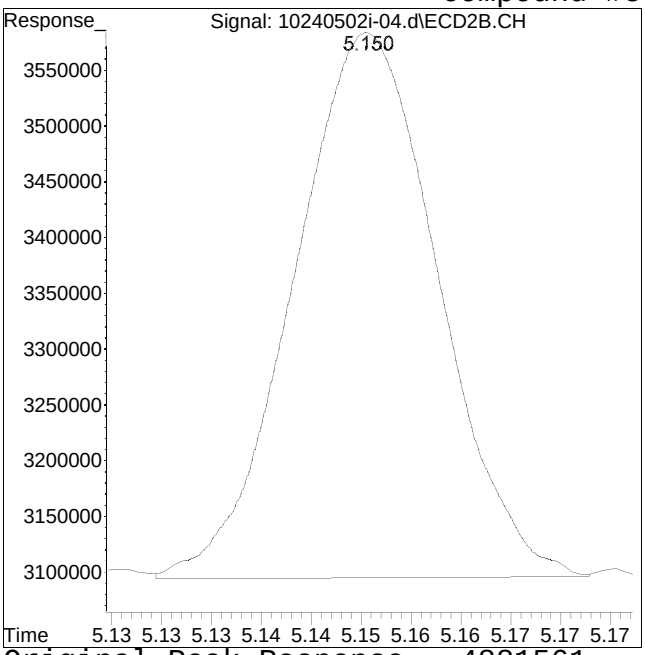
Manual Peak Response = 15926678 M4

M4 = Poor automated baseline construction.

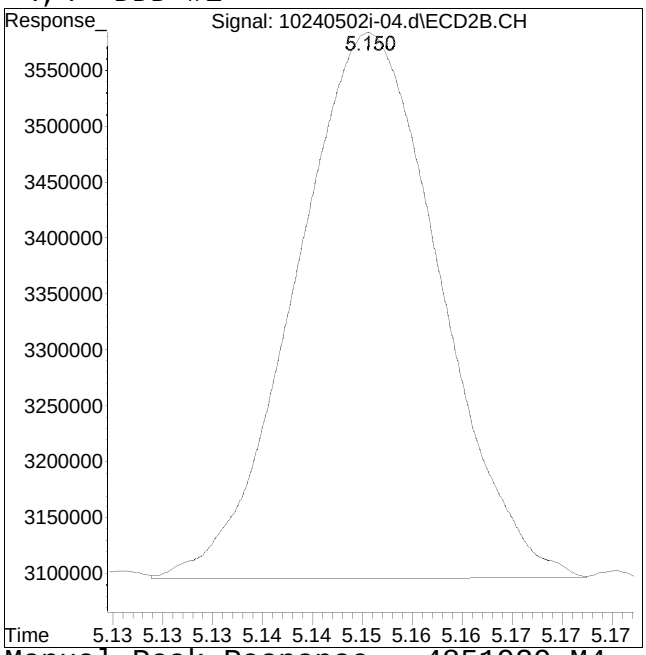
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-04.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 4:20 pm Instrument : Pest 10
Sample : il2pest,42e,,pp 11405 L0.0Quant Date : 5/7/2024 5:28 pm

Compound #57: 4,4'-DDD #2



Original Peak Response = 4881561



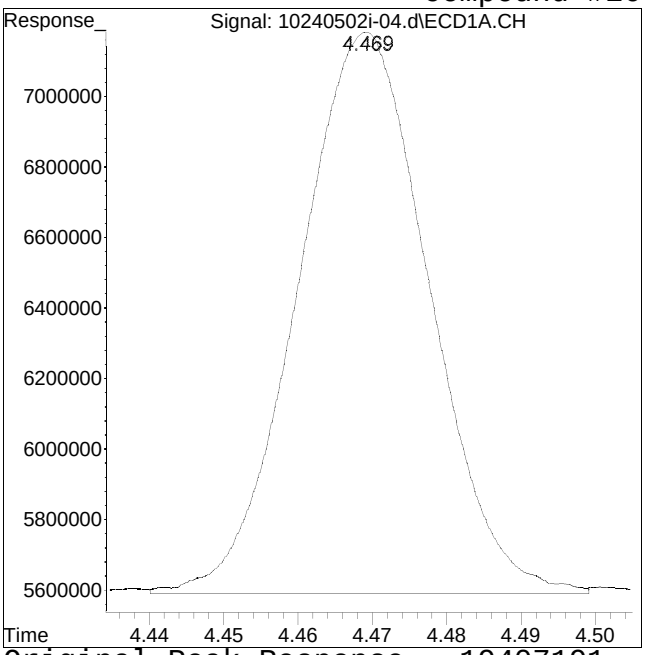
Manual Peak Response = 4851929 M4

M4 = Poor automated baseline construction.

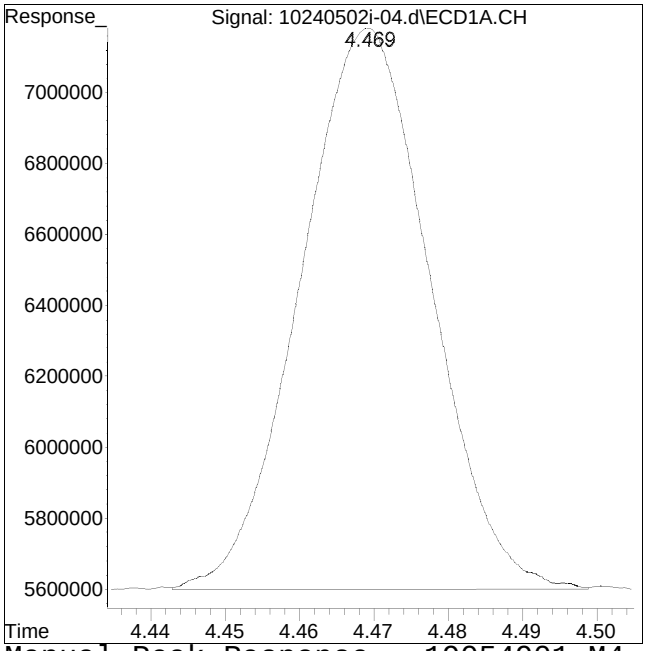
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-04.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 4:20 pm Instrument : Pest 10
Sample : il2pest,42e,,pp 11405 L0.0Quant Date : 5/7/2024 5:28 pm

Compound #20: Endosulfan II



Original Peak Response = 19407191



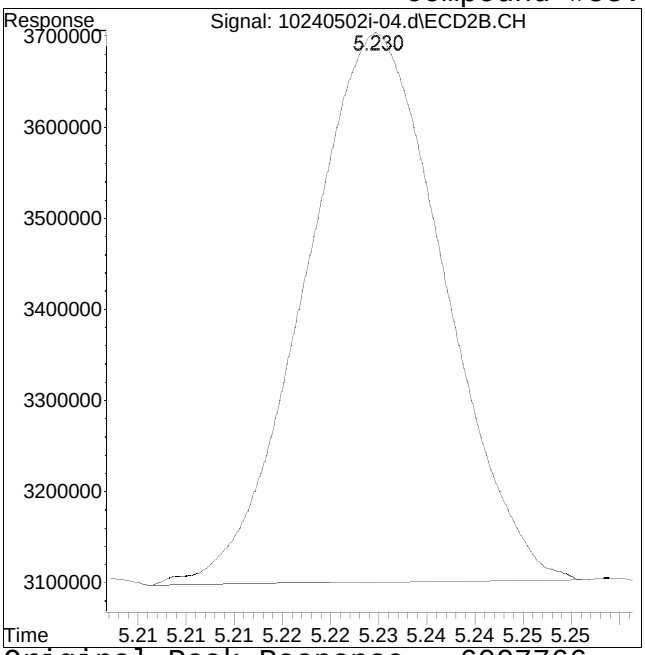
Manual Peak Response = 19054901 M4

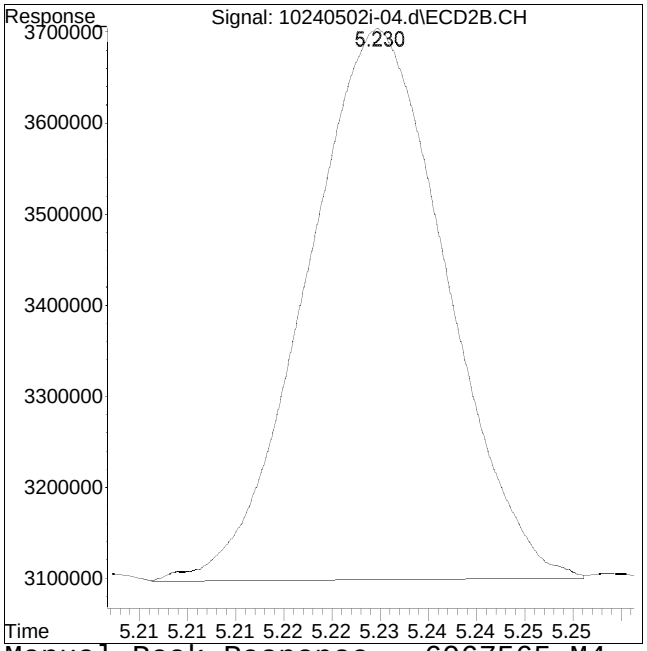
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-04.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 4:20 pm Instrument : Pest 10
Sample : il2pest,42e,,pp 11405 L0.0Quant Date : 5/7/2024 5:28 pm

Compound #58: Endosulfan II #2



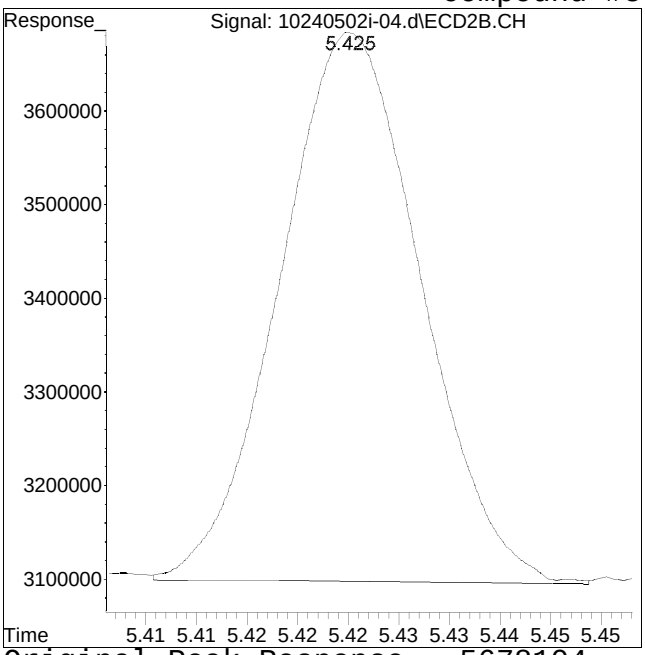


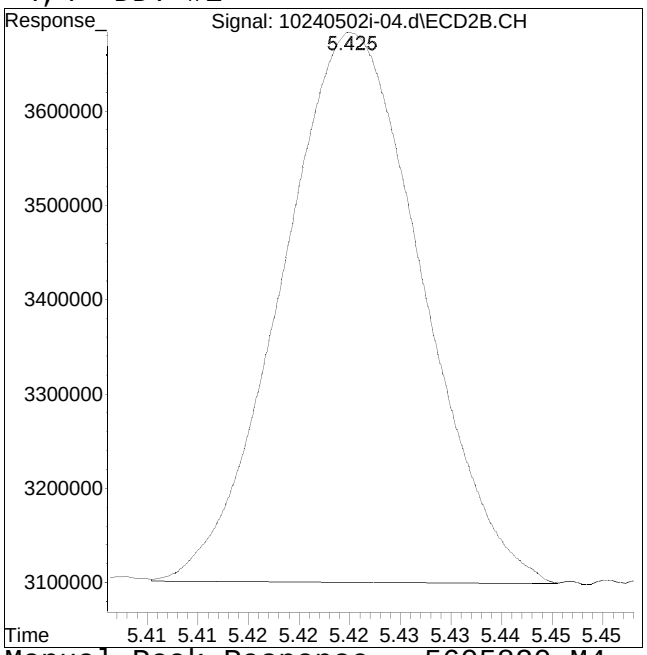
Original Peak Response = 6007766 Manual Peak Response = 6067565 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-04.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 4:20 pm Instrument : Pest 10
Sample : il2pest,42e,,pp 11405 L0.0Quant Date : 5/7/2024 5:28 pm

Compound #59: 4,4'-DDT #2





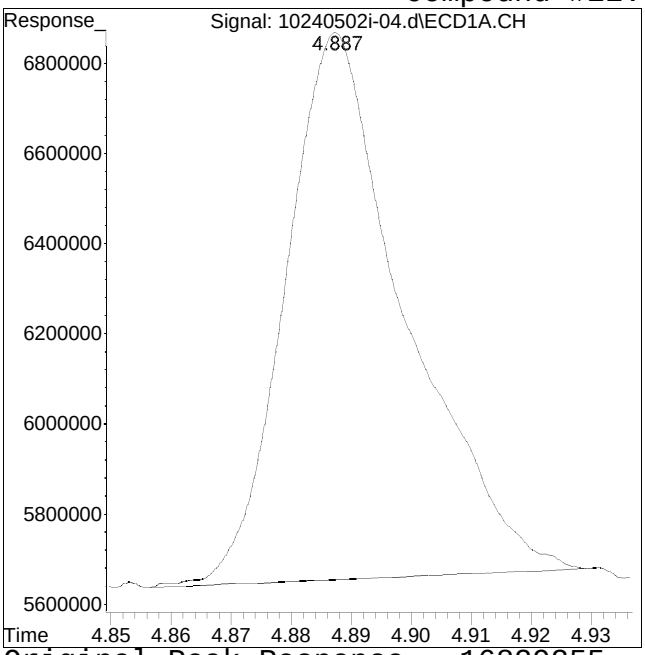
Original Peak Response = 5678104 Manual Peak Response = 5605820 M4
M4 = Poor automated baseline construction.

Manual Integration Report

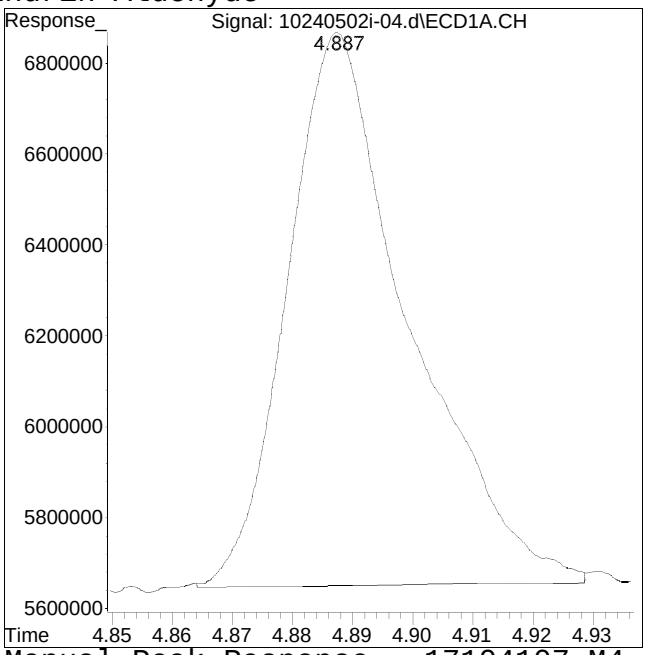
Data Path : I:\PEST\Pest10\2024\240502Q
Data File : 10240502i-04.d
Date Inj'd : 5/2/2024 4:20 pm
Sample : il2pest,42e,,pp 11405 L0.0

Method : pest10_2024_05_02_ugL_ic
Operator : PEST10:jag
Instrument : Pest 10
Quant Date : 5/7/2024 5:28 pm

Compound #22: Endrin Aldehyde



Original Peak Response = 16829255



Manual Peak Response = 17104107 M4

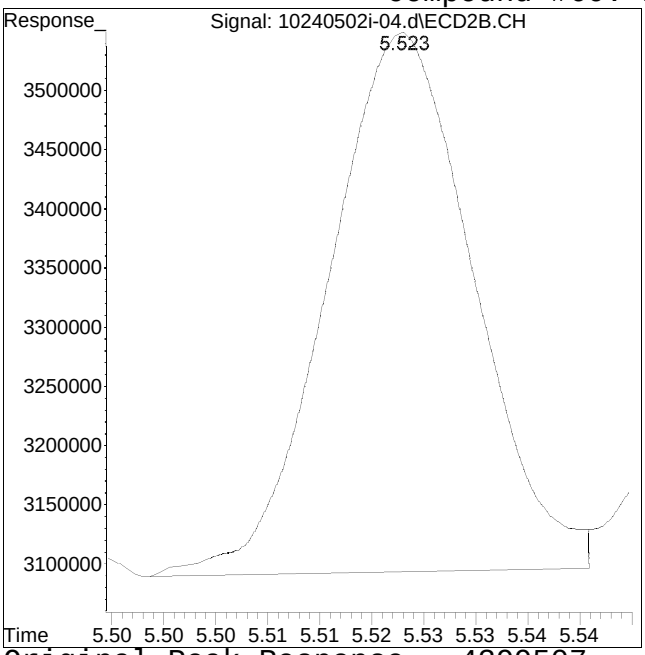
M4 = Poor automated baseline construction.

Manual Integration Report

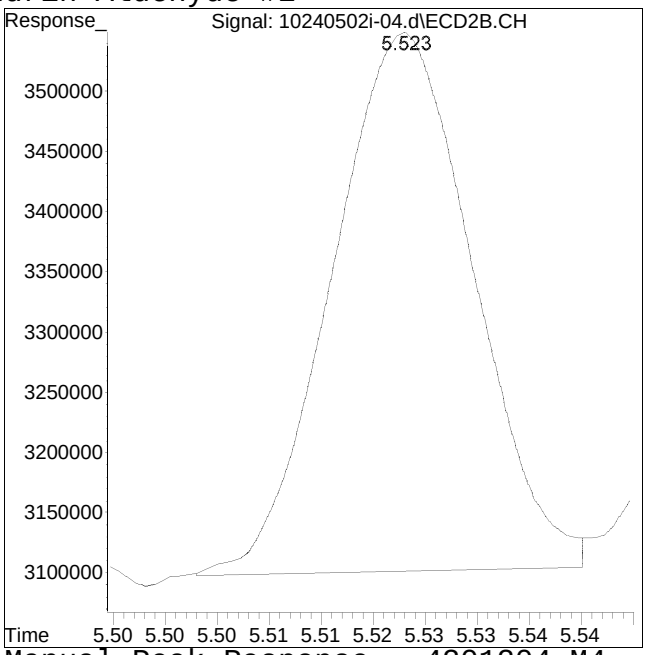
Data Path : I:\PEST\Pest10\2024\240502Q
Data File : 10240502i-04.d
Date Inj'd : 5/2/2024 4:20 pm
Sample : il2pest,42e,,pp 11405 L0.0

Method : pest10_2024_05_02_ugL_ic
Operator : PEST10:jag
Instrument : Pest 10
Quant Date : 5/7/2024 5:28 pm

Compound #60: Endrin Aldehyde #2



Original Peak Response = 4399507



Manual Peak Response = 4201204 M4

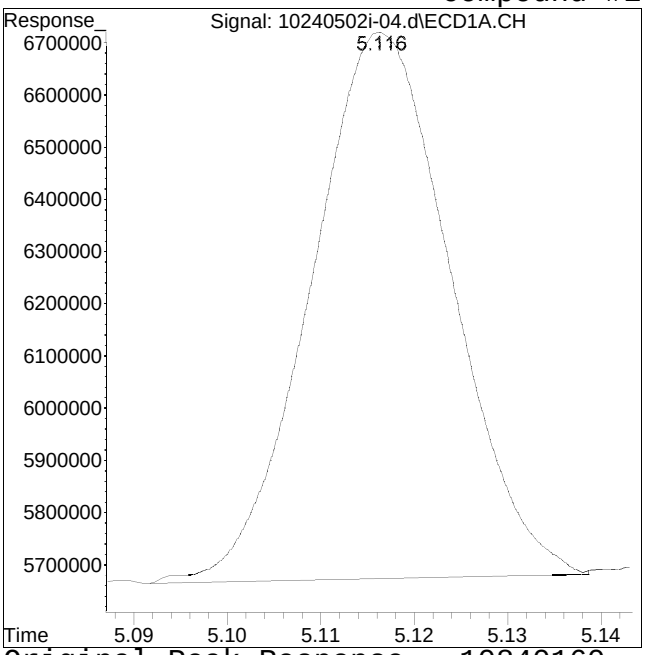
M4 = Poor automated baseline construction.

Manual Integration Report

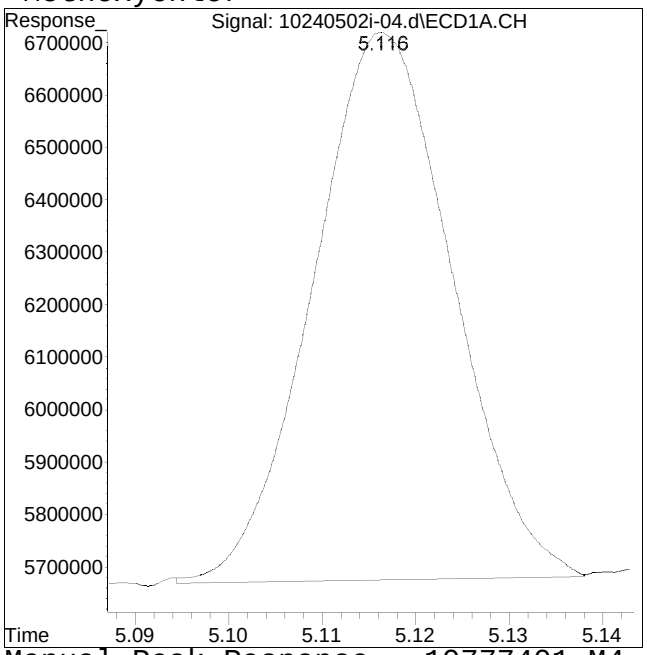
Data Path : I:\PEST\Pest10\2024\240502Q
Data File : 10240502i-04.d
Date Inj'd : 5/2/2024 4:20 pm
Sample : il2pest,42e,,pp 11405 L0.0

Method : pest10_2024_05_02_ugL_ic
Operator : PEST10:jag
Instrument : Pest 10
Quant Date : 5/7/2024 5:28 pm

Compound #23: Methoxychlor



Original Peak Response = 10840160



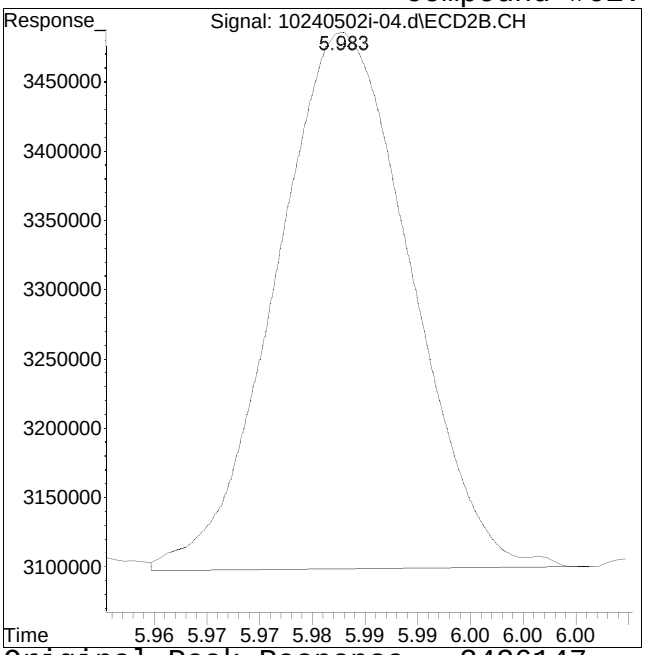
Manual Peak Response = 10777401 M4

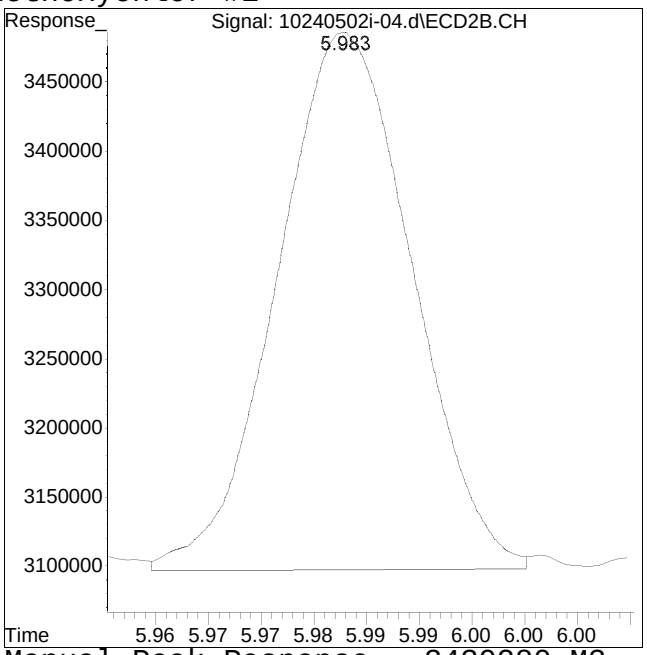
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-04.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 4:20 pm Instrument : Pest 10
Sample : il2pest,42e,,pp 11405 L0.0Quant Date : 5/7/2024 5:28 pm

Compound #61: Methoxychlor #2



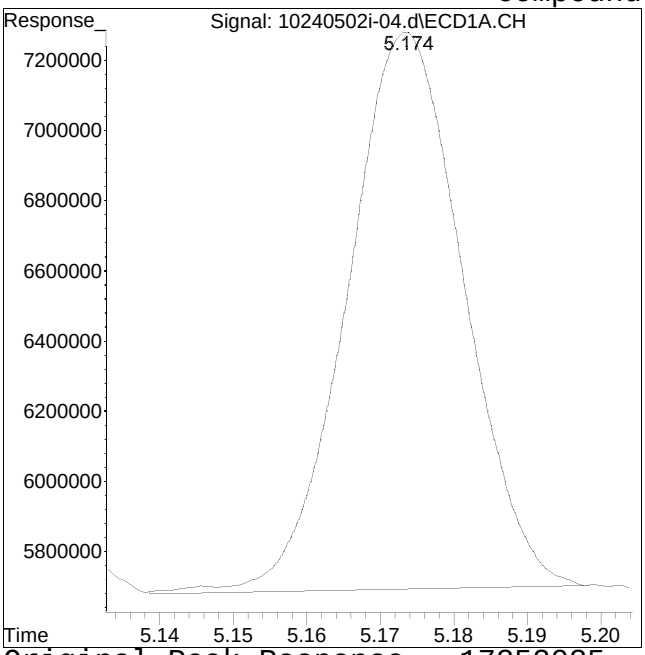


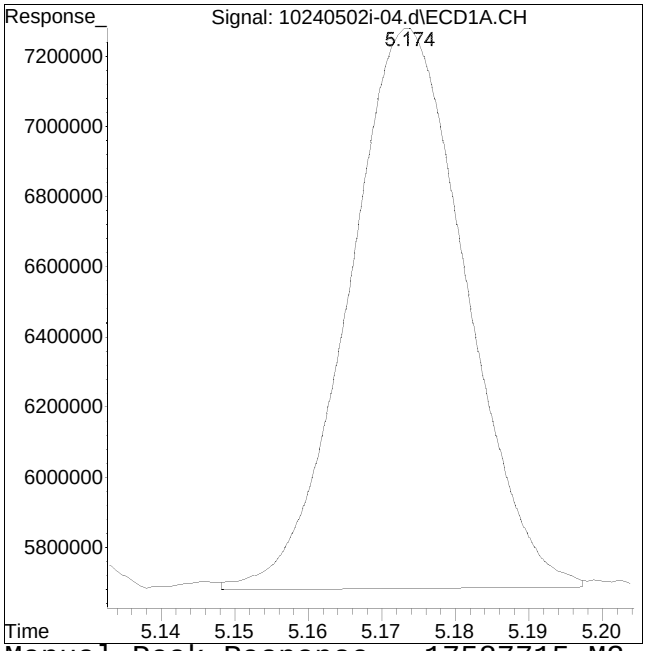
Original Peak Response = 3426147 Manual Peak Response = 3439280 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-04.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 4:20 pm Instrument : Pest 10
Sample : il2pest,42e,,pp 11405 L0.0Quant Date : 5/7/2024 5:28 pm

Compound #24: Mirex



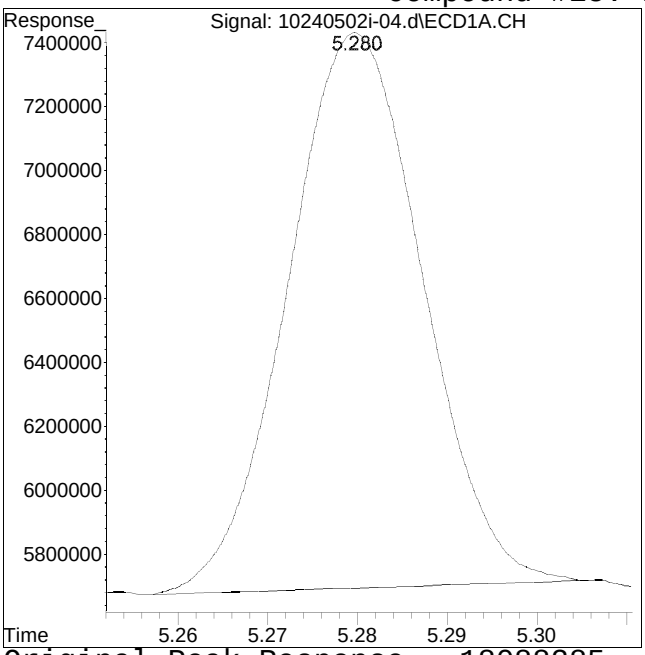


Original Peak Response = 17352035 Manual Peak Response = 17587715 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

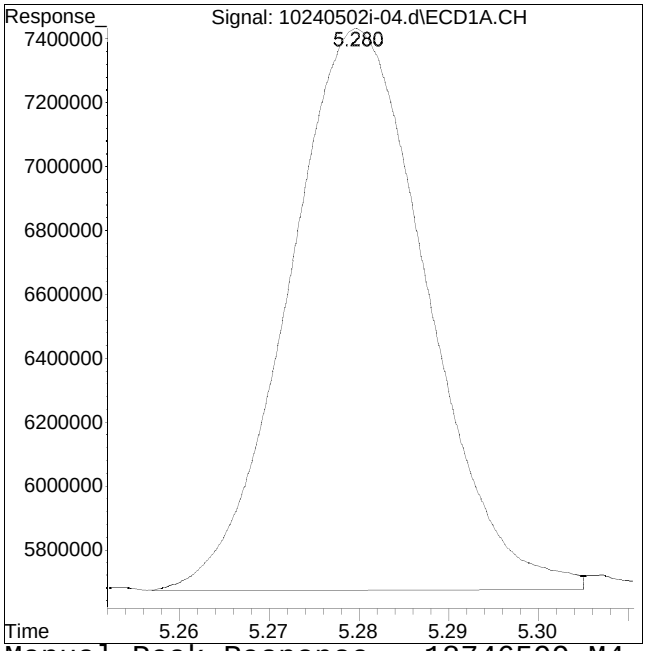
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-04.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 4:20 pm Instrument : Pest 10
Sample : il2pest,42e,,pp 11405 L0.0Quant Date : 5/7/2024 5:28 pm

Compound #25: Endosulfan Sulfate



Original Peak Response = 18088285



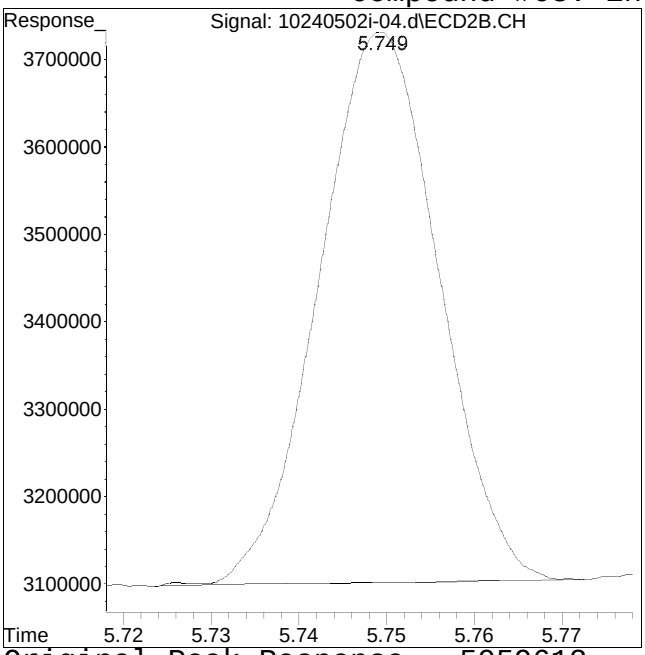
Manual Peak Response = 18746599 M4

M4 = Poor automated baseline construction.

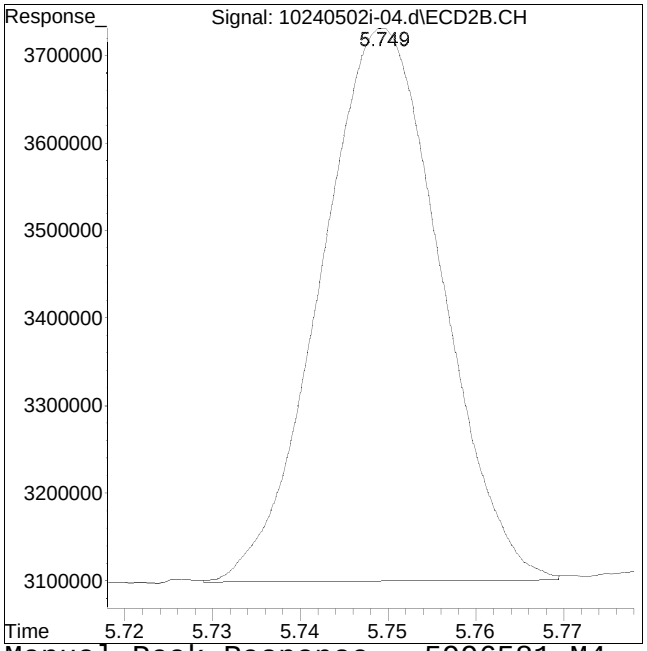
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-04.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 4:20 pm Instrument : Pest 10
Sample : il2pest,42e,,pp 11405 L0.0Quant Date : 5/7/2024 5:28 pm

Compound #63: Endosulfan Sulfate #2



Original Peak Response = 5959612



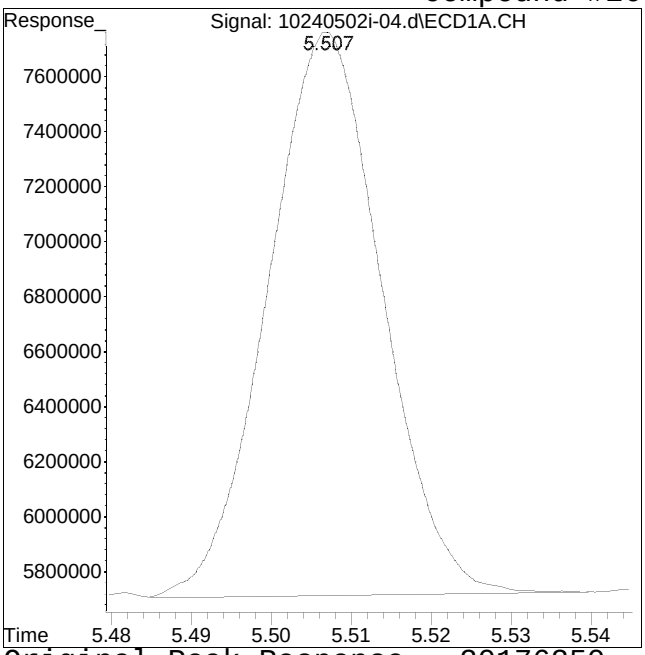
Manual Peak Response = 5996581 M4

M4 = Poor automated baseline construction.

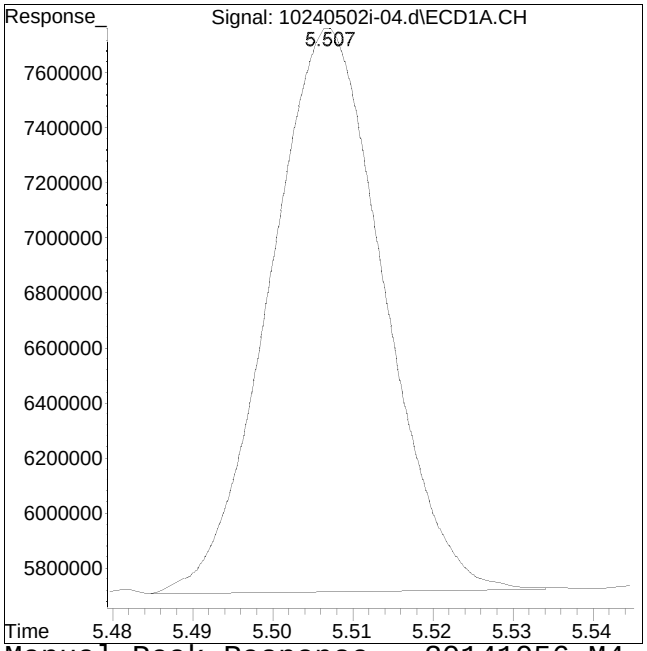
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-04.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 4:20 pm Instrument : Pest 10
Sample : il2pest,42e,,pp 11405 L0.0Quant Date : 5/7/2024 5:28 pm

Compound #26: Endrin Ketone



Original Peak Response = 20176250



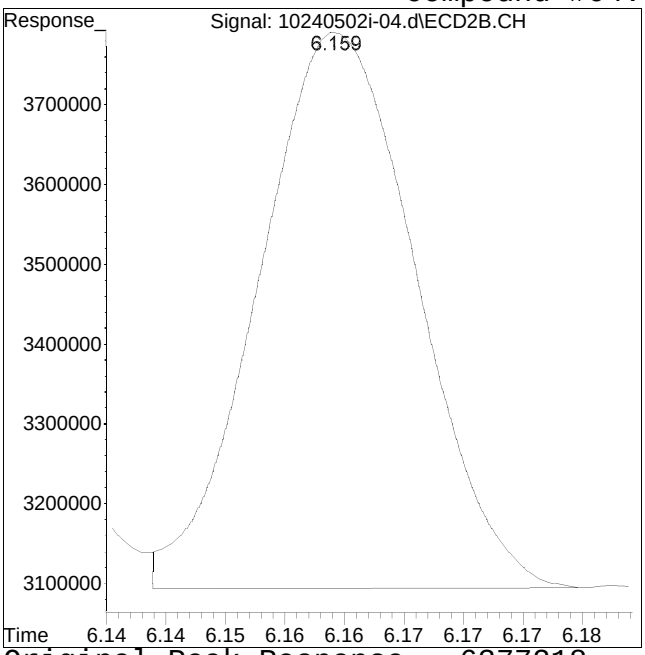
Manual Peak Response = 20141056 M4

M4 = Poor automated baseline construction.

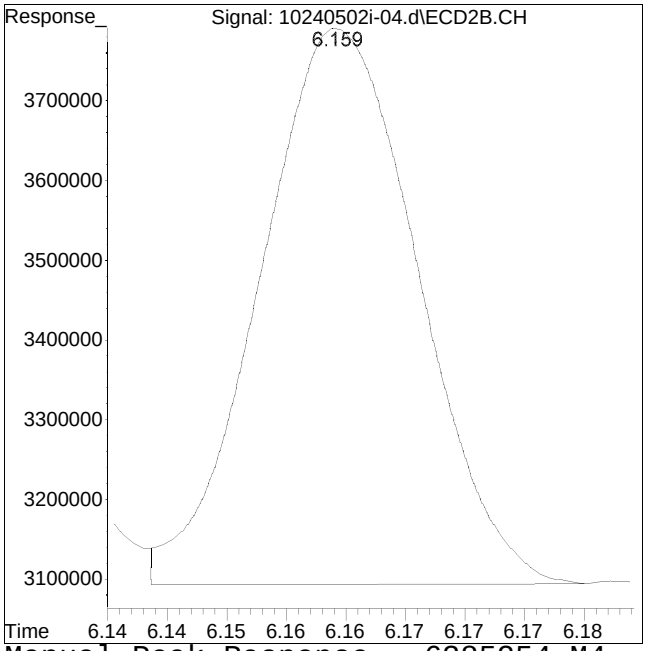
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-04.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 4:20 pm Instrument : Pest 10
Sample : il2pest,42e,,pp 11405 L0.0Quant Date : 5/7/2024 5:28 pm

Compound #64: Endrin Ketone #2



Original Peak Response = 6377218



Manual Peak Response = 6385254 M4

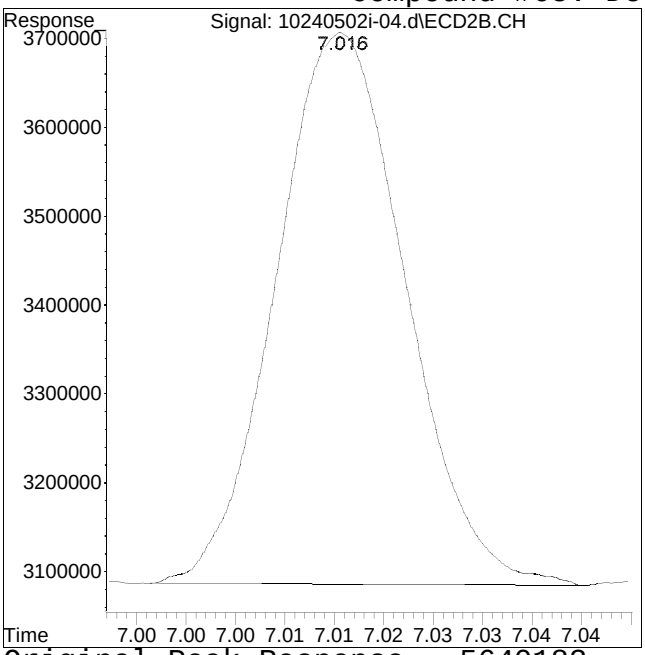
M4 = Poor automated baseline construction.

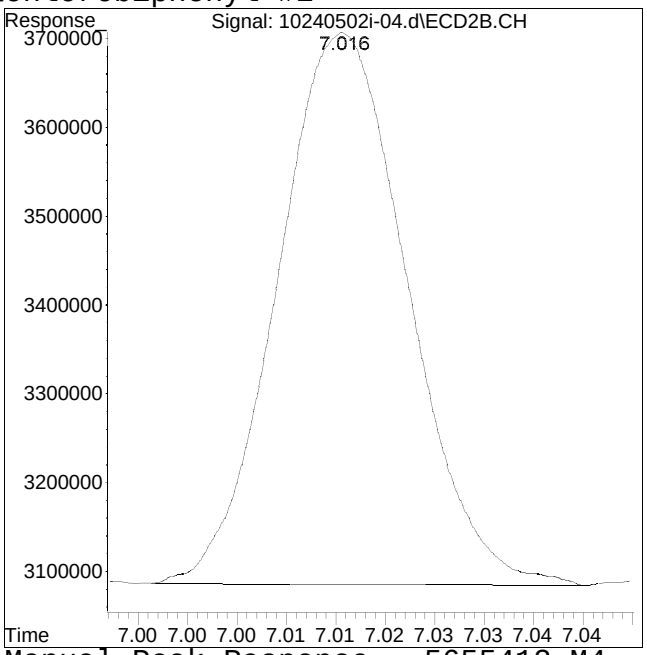
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502Q
Data File : 10240502i-04.d
Date Inj'd : 5/2/2024 4:20 pm
Sample : il2pest,42e,,pp 11405 L0.0

Method : pest10_2024_05_02_ugL_ic
Operator : PEST10:jag
Instrument : Pest 10
Quant Date : 5/7/2024 5:28 pm

Compound #65: Decachlorobiphenyl #2





Original Peak Response = 5640183 Manual Peak Response = 5655412 M4

M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest10\2024\240502ical\
Data File : 10240502i-05.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 May 2024 4:31 pm
Operator : PEST10:jag
Sample : il3pest,42e,,pp 11404 L0.002
Misc : wg1919460, (Sig #1); ical (Sig #2)
ALS Vial : 5 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 07 17:37:13 2024
Quant Method : I:\PEST\Pest10\2024\240502ical\pest10_2024_05_02_ugL_ical.m
Quant Title : pest
QLast Update : Tue May 07 17:36:58 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	1.317	1.428	381.1E6	139.2E6	25.000M4	25.000M4
28) i	1-br-2-nb_Ch	0.000	0.000	0	0	N.D. d	N.D. d
33) i	1-br-2-nb_To	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	1.662	1.920	35711139	10850732	2.158M3	2.073M4
	Spiked Amount 50.000	Range 30 - 150		Recovery =		4.32%#	4.15%#
27) s	Decachlorobi	6.305	7.013	32365645	10652604	2.284M4	2.301M3
	Spiked Amount 50.000	Range 30 - 150		Recovery =		4.57%#	4.60%#
	Target Compounds						
3) t	Hexachlorobe	1.877	2.250	38695981	12968247	2.189	2.156M4
4) t	alpha-BHC	1.976	2.350	45029539	13912745	1.956M3	1.867M4
5) t	gamma-BHC (l	2.179	2.644	43040041	13436848	1.972M4	1.920M4
6) t	beta-BHC	2.235	2.709	21411066	7288326	2.211M4	2.201M4
7) t	delta-BHC	2.364	2.983	42612240	13354035	1.979M4	1.900M4
8) t	Heptachlor	2.527	3.052	43745284	14311491	2.111	2.059M4
9) t	Aldrin	2.770	3.380	40691291	12600703	2.082M3	1.990M3
10) t D	Alachlor	2.892	3.257	6800977	2670710	0.400M4	2.512M4
11) t D	Chlorpyrifos	2.983	3.620	23084438	8291777	0.662M4	2.486M3

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest10\2024\240502ical\
Data File : 10240502i-05.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 May 2024 4:31 pm
Operator : PEST10:jag
Sample : il3pest,42e,,pp 11404 L0.002
Misc : wg1919460, (Sig #1); ical (Sig #2)
ALS Vial : 5 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 07 17:37:13 2024
Quant Method : I:\PEST\Pest10\2024\240502ical\pest10_2024_05_02_ugL_ical.m
Quant Title : pest
QLast Update : Tue May 07 17:36:58 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

		Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
12)	t	Heptachlor E	3.317	4.010	40433911	13339578	2.172M4	2.108M4
13)	t	gamma-Chlord	3.440	4.233	36094628	11730545	2.119	2.084
14)	t	alpha-Chlord	3.575	4.397	41440172	13178293	2.142M4	2.081M3
15)	t	4,4'-DDE	3.671	4.587	37835033	11469849	2.065M4	1.959M4
16)	t	Endosulfan I	3.712	4.457	38657227	12412489	2.173M4	2.108M4
17)	t	Dieldrin	3.973	4.743	38341956	11858093	2.096M4	2.012M4
18)	t	Endrin	4.228	5.035	39721518	12307147	2.114M4	2.035M4
19)	t	4,4'-DDD	4.336	5.150	30999704	9213514	2.081M4	1.956M4
20)	t	Endosulfan I	4.468	5.229	36151186	11517617	2.229M4	2.175M4
21)	t	4,4'-DDT	4.629	5.425	34223648	10690472	2.076	2.001M4
22)	t	Endrin Aldeh	4.886	5.523	27548287	8745833	2.121M3	2.105M4
23)	t	Methoxychlor D	5.115	5.983	20910420	6628788	1.421M4	2.256M4
24)	t	Mirex	5.173	6.127	33273767	11244335	1.618M4	2.413M4
25)	t	Endosulfan S	5.279	5.749	35176451	11355175	2.187M4	2.151M4
26)	t	Endrin Keton	5.506	6.159	38253579	12144030	2.168M4	2.111M4
29)	l1	chlordane-1	0.000	0.000	0	0	N.D.	N.D.
30)	l1	chlordane-3	0.000	0.000	0	0	N.D. d	N.D. d
31)	l1	chlordane-4	0.000	0.000	0	0	N.D. d	N.D. d
32)	l1	chlordane-5	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\PEST\Pest10\2024\240502ical\
Data File : 10240502i-05.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 May 2024 4:31 pm
Operator : PEST10:jag
Sample : il3pest,42e,,pp 11404 L0.002
Misc : wg1919460, (Sig #1); ical (Sig #2)
ALS Vial : 5 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 07 17:37:13 2024
Quant Method : I:\PEST\Pest10\2024\240502ical\pest10_2024_05_02_ugL_ical.m
Quant Title : pest
QLast Update : Tue May 07 17:36:58 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Sum chlordane-1			0	0	N.D.	N.D.
Average	chlordane-1					0.000	0.000
34) l2	toxaphene-1	0.000	0.000	0	0	N.D. d	N.D. d
35) l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
36) l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
37) l2	toxaphene-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

	Sum toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

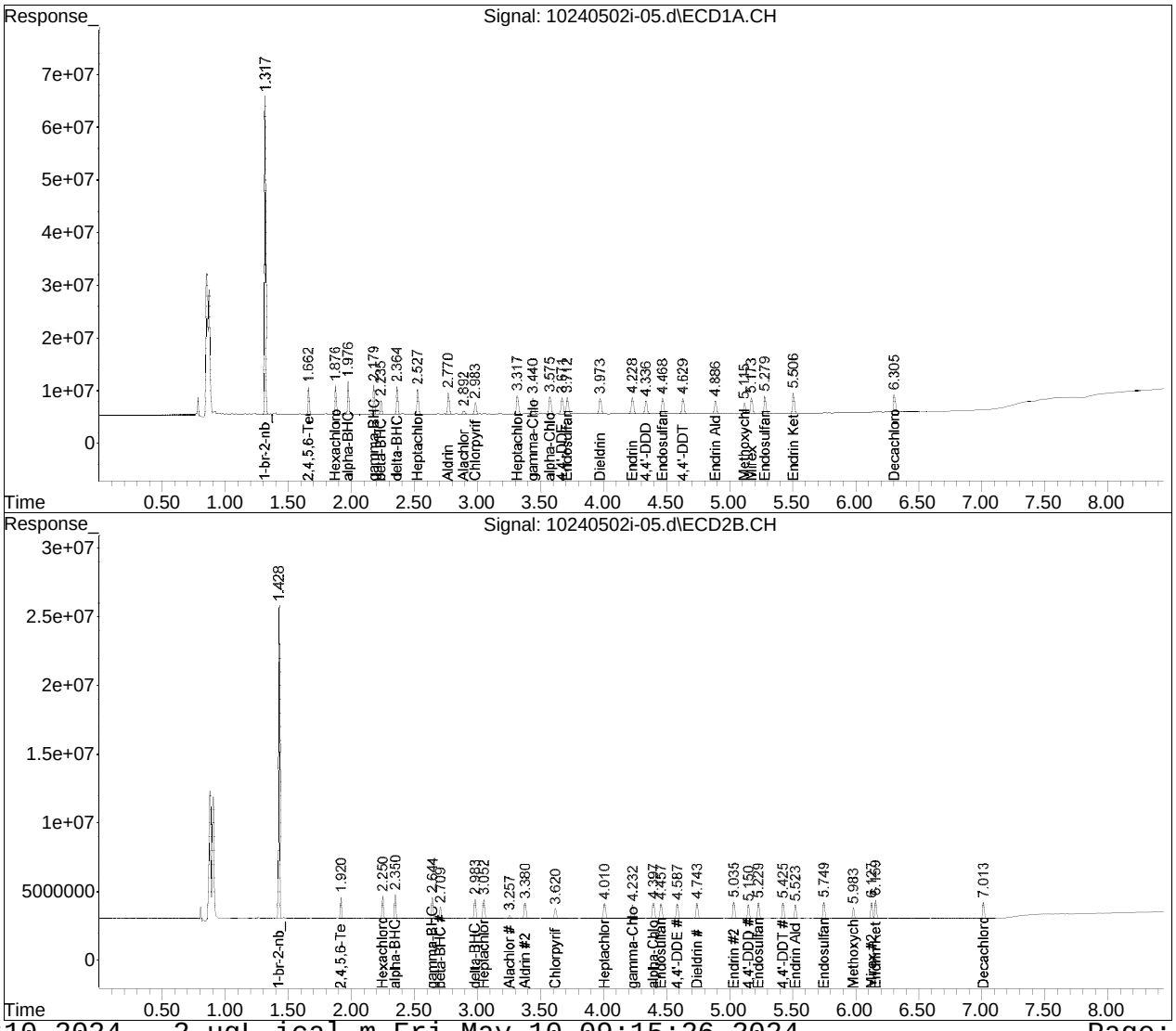
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest10\2024\240502ical\
Data File : 10240502i-05.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 May 2024 4:31 pm
Operator : PEST10:jag
Sample : il3pest,42e,,pp 11404 L0.002
Misc : wg1919460, (Sig #1); ical (Sig #2)
ALS Vial : 5 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 07 17:37:13 2024
Quant Method : I:\PEST\Pest10\2024\240502ical\pest10_2024_05_02_ugL_ical.m
Quant Title : pest
QLast Update : Tue May 07 17:36:58 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

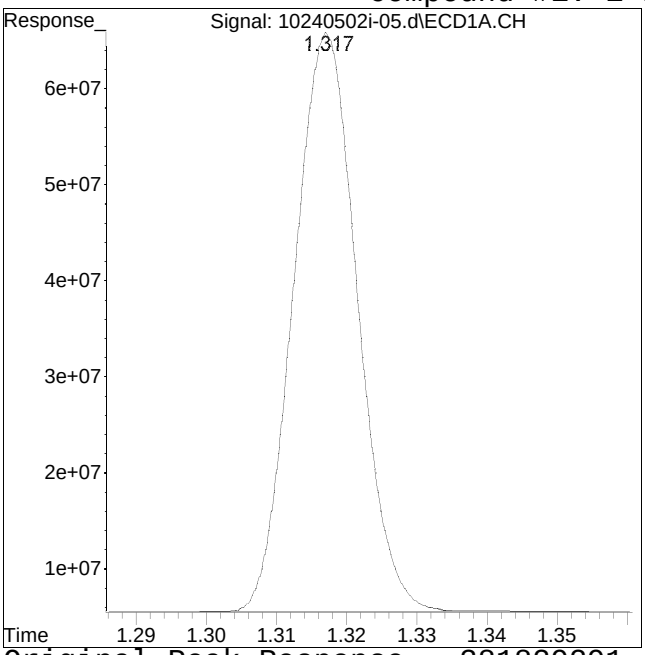
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



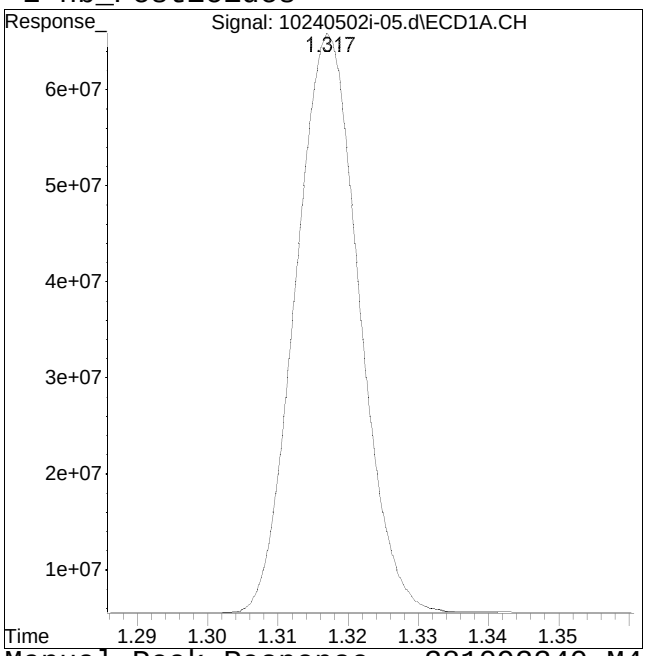
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-05.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 4:31 pm Instrument : Pest 10
Sample : il3pest,42e,,pp 11404 L0.0Quant Date : 5/7/2024 5:37 pm

Compound #1: 1-br-2-nb_Pesticides



Original Peak Response = 381829291



Manual Peak Response = 381093340 M4

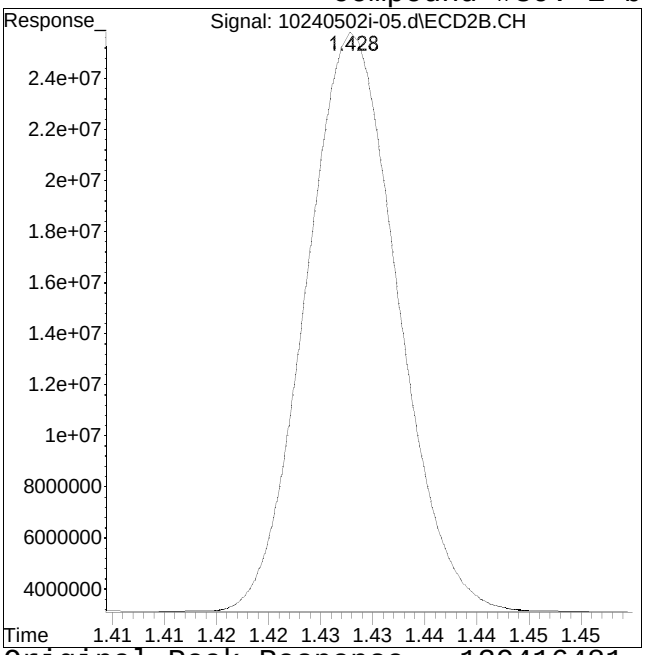
M4 = Poor automated baseline construction.

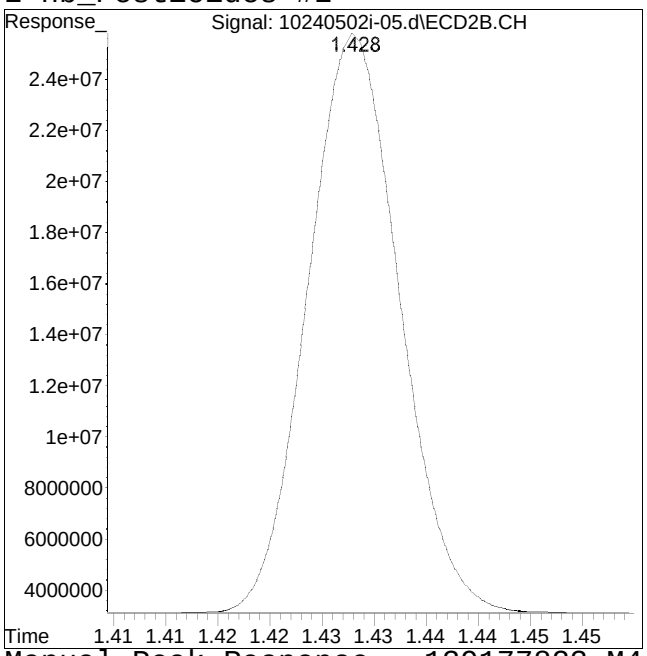
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502Q
Data File : 10240502i-05.d
Date Inj'd : 5/2/2024 4:31 pm
Sample : il3pest,42e,,pp 11404 L0.0

Method : pest10_2024_05_02_ugL_ic
Operator : PEST10:jag
Instrument : Pest 10
Quant Date : 5/7/2024 5:37 pm

Compound #39: 1-br-2-nb_Pesticides #2



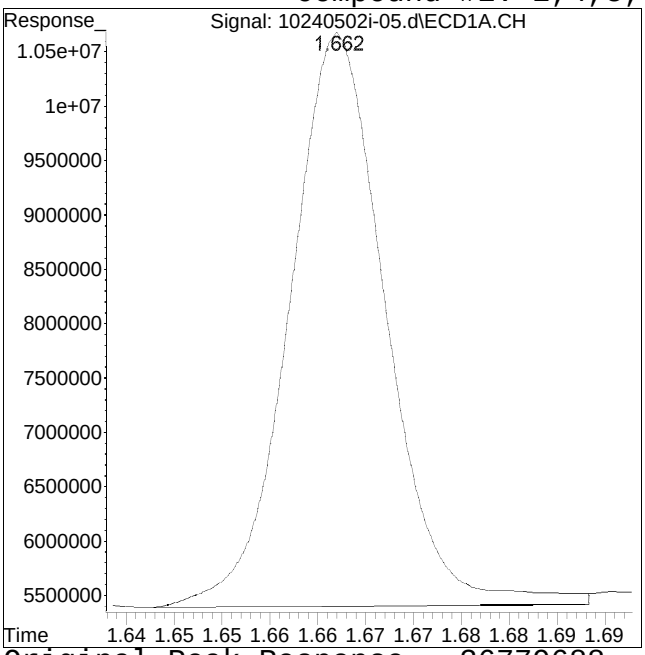


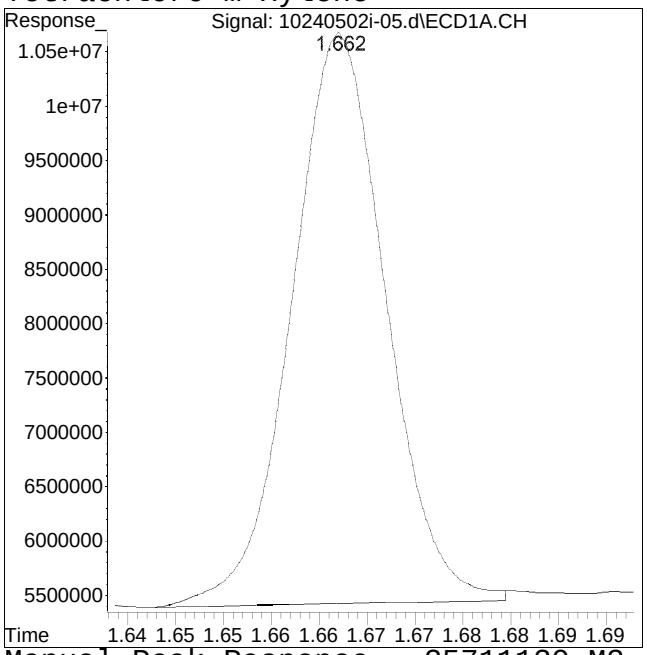
Original Peak Response = 139416481 Manual Peak Response = 139177823 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-05.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 4:31 pm Instrument : Pest 10
Sample : il3pest,42e,,pp 11404 L0.0Quant Date : 5/7/2024 5:37 pm

Compound #2: 2,4,5,6-Tetrachloro-m-xylene



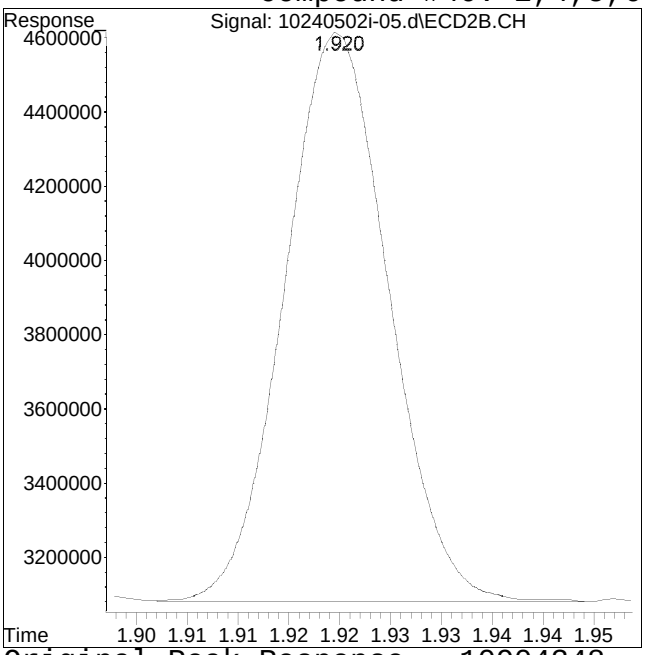


Original Peak Response = 36779688 Manual Peak Response = 35711139 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

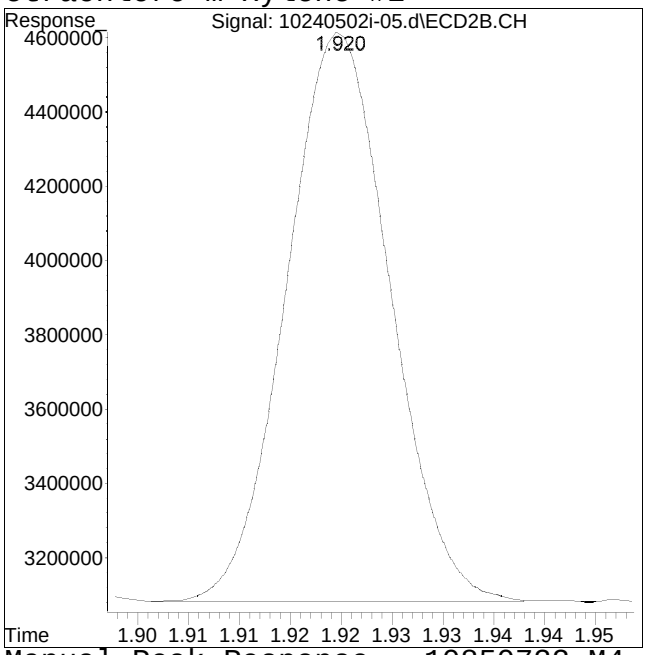
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-05.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 4:31 pm Instrument : Pest 10
Sample : il3pest,42e,,pp 11404 L0.0Quant Date : 5/7/2024 5:37 pm

Compound #40: 2,4,5,6-Tetrachloro-m-xylene #2



Original Peak Response = 10904348



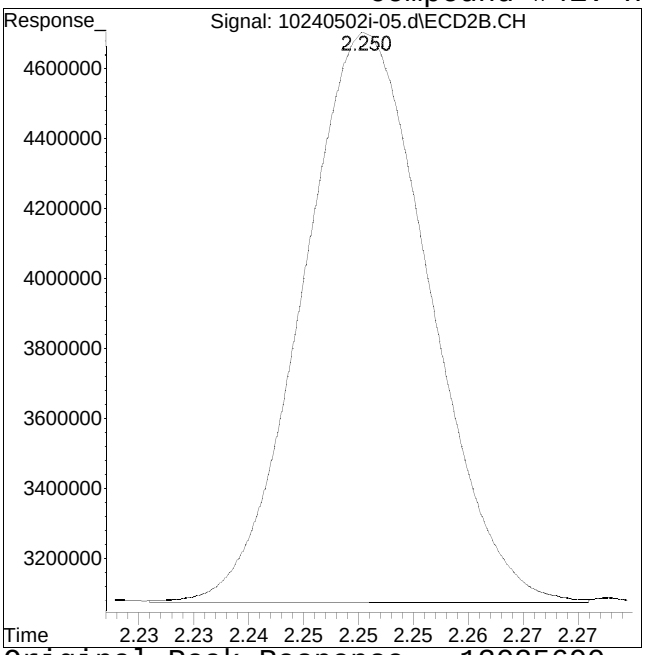
Manual Peak Response = 10850732 M4

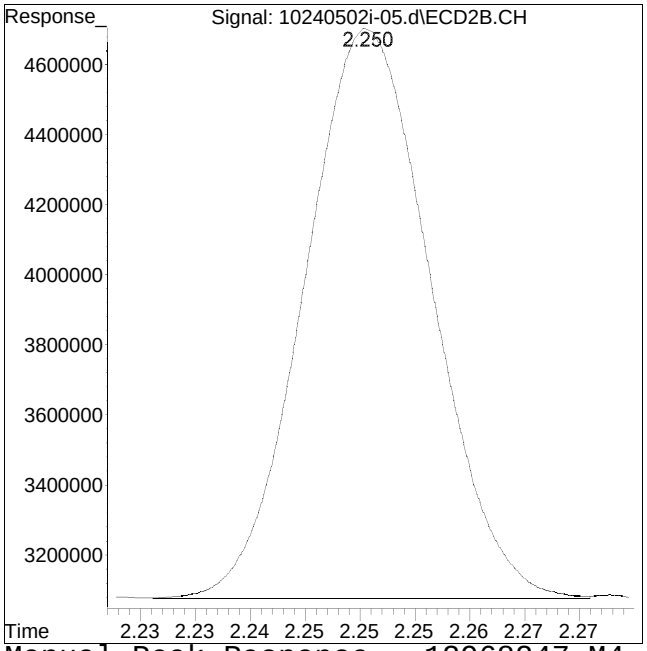
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-05.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 4:31 pm Instrument : Pest 10
Sample : il3pest,42e,,pp 11404 L0.0Quant Date : 5/7/2024 5:37 pm

Compound #41: Hexachlorobenzene #2



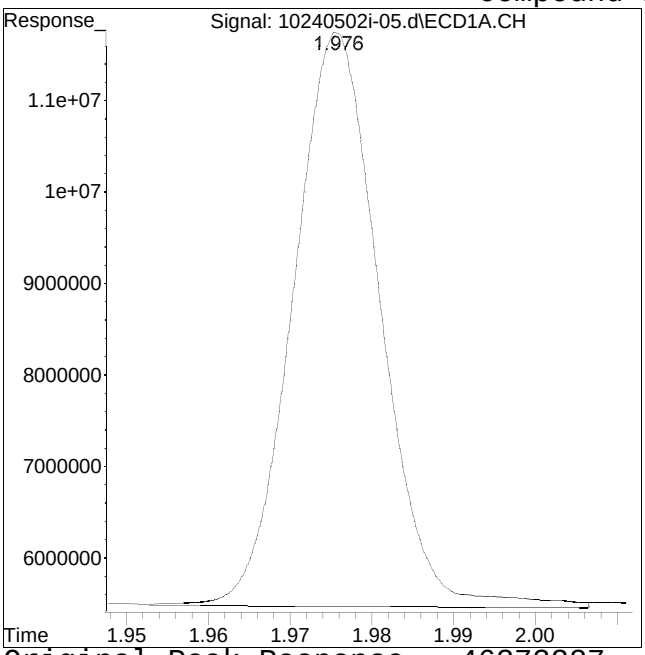


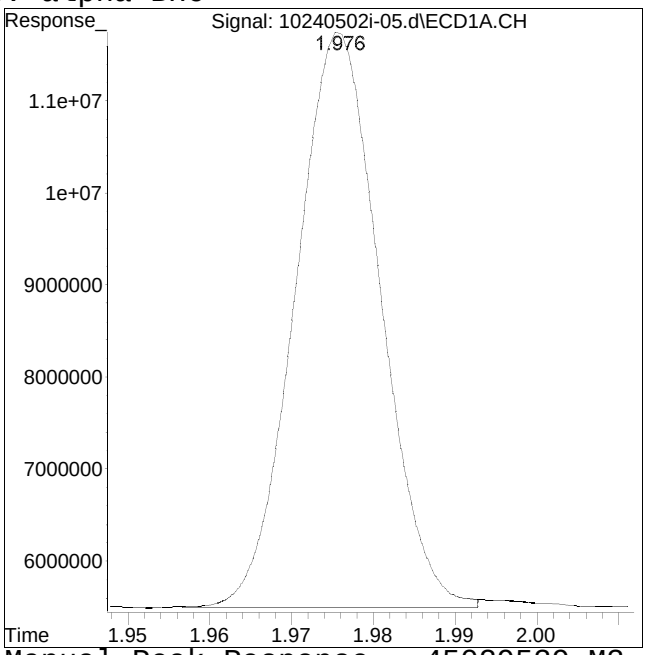
Original Peak Response = 13025690 Manual Peak Response = 12968247 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-05.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 4:31 pm Instrument : Pest 10
Sample : il3pest,42e,,pp 11404 L0.0Quant Date : 5/7/2024 5:37 pm

Compound #4: alpha-BHC



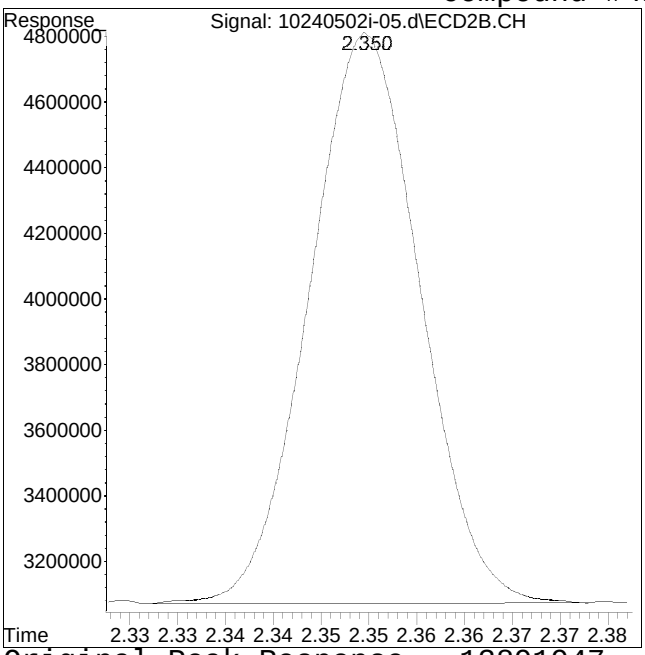


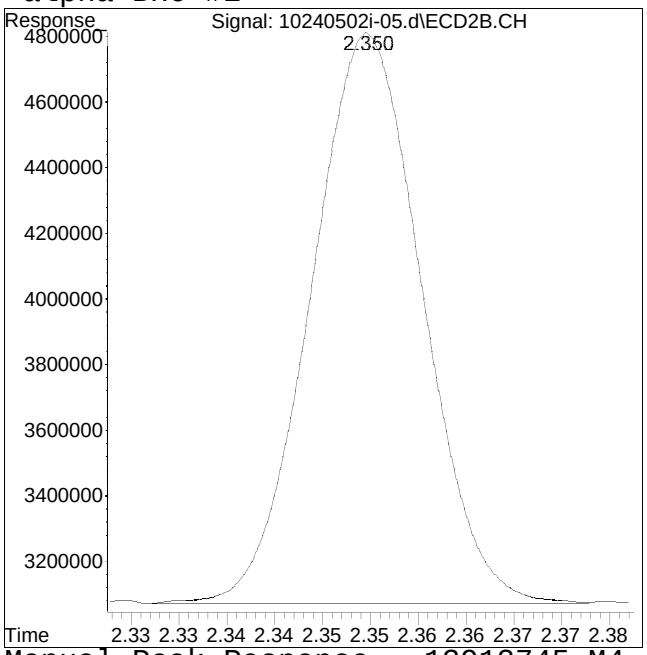
Original Peak Response = 46373227 Manual Peak Response = 45029539 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-05.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 4:31 pm Instrument : Pest 10
Sample : il3pest,42e,,pp 11404 L0.0Quant Date : 5/7/2024 5:37 pm

Compound #42: alpha-BHC #2



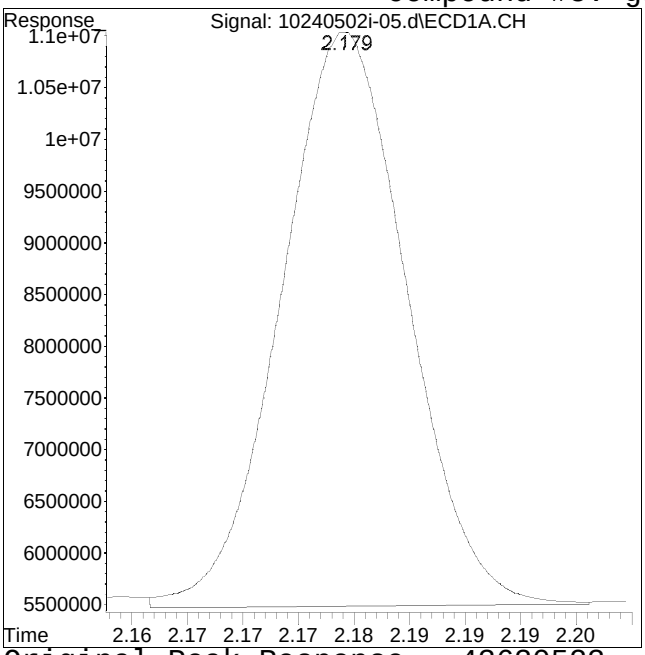


Original Peak Response = 13891947 Manual Peak Response = 13912745 M4
M4 = Poor automated baseline construction.

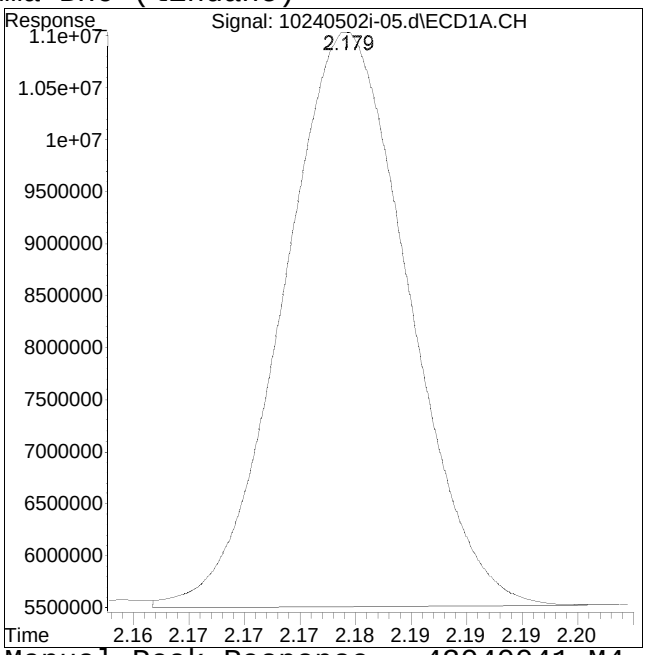
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-05.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 4:31 pm Instrument : Pest 10
Sample : il3pest,42e,,pp 11404 L0.0Quant Date : 5/7/2024 5:37 pm

Compound #5: gamma-BHC (lindane)



Original Peak Response = 43630523



Manual Peak Response = 43040041 M4

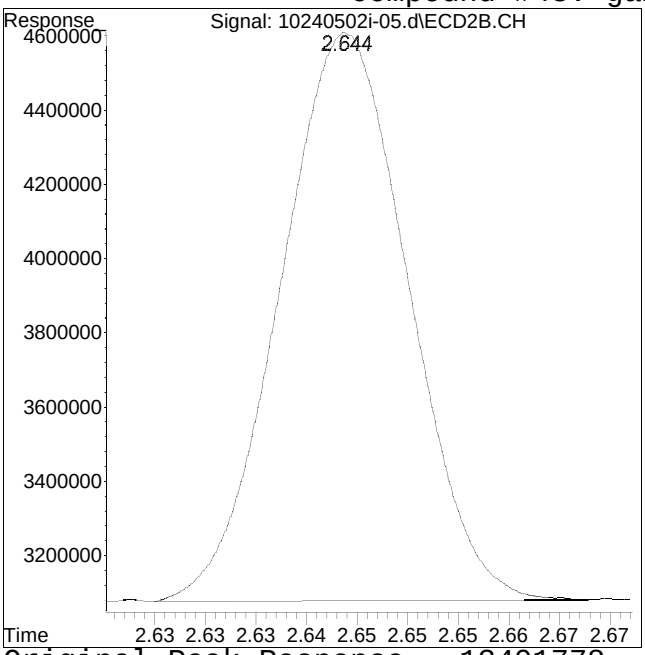
M4 = Poor automated baseline construction.

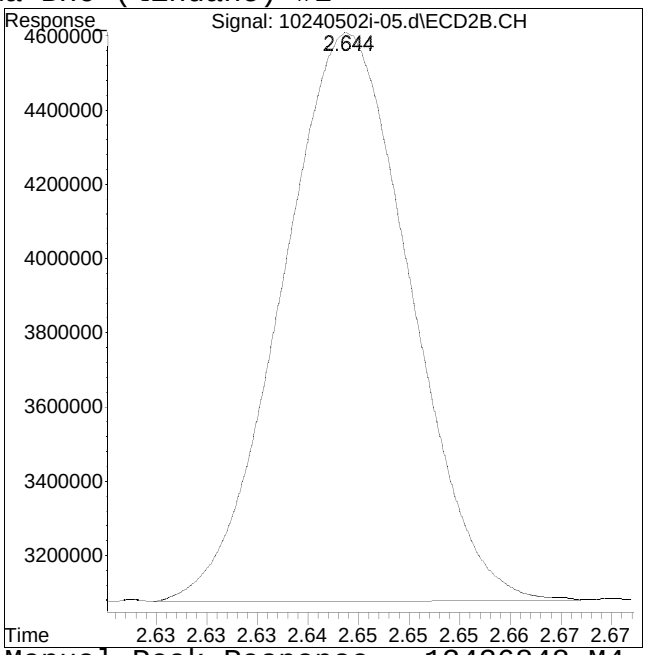
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502Q
Data File : 10240502i-05.d
Date Inj'd : 5/2/2024 4:31 pm
Sample : il3pest,42e,,pp 11404 L0.0

Method : pest10_2024_05_02_ugL_ic
Operator : PEST10:jag
Instrument : Pest 10
Quant Date : 5/7/2024 5:37 pm

Compound #43: gamma-BHC (lindane) #2



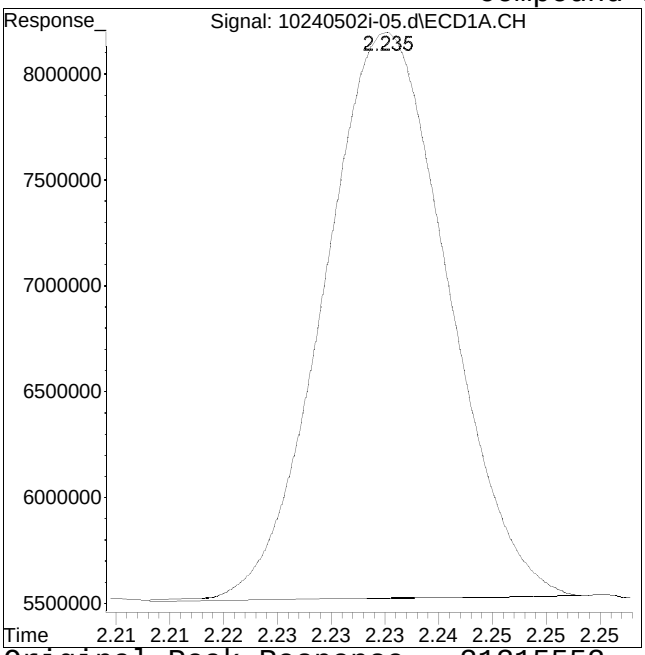


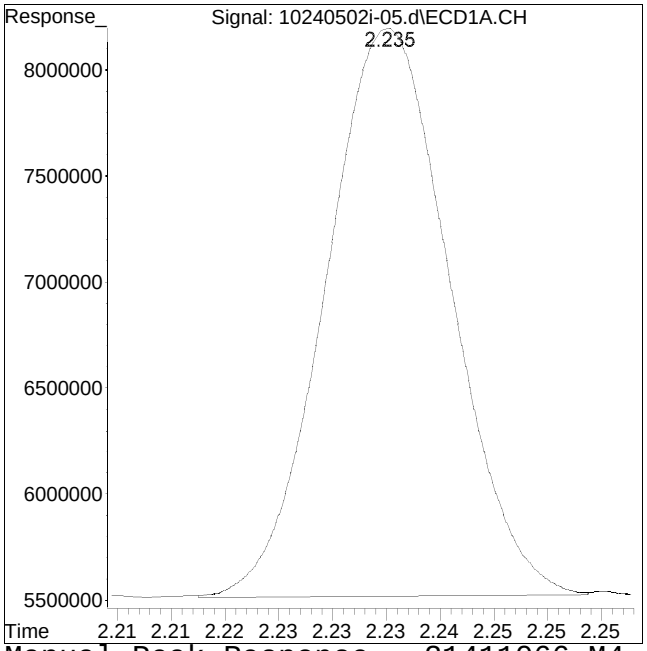
Original Peak Response = 13401778 Manual Peak Response = 13436848 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-05.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 4:31 pm Instrument : Pest 10
Sample : il3pest,42e,,pp 11404 L0.0Quant Date : 5/7/2024 5:37 pm

Compound #6: beta-BHC



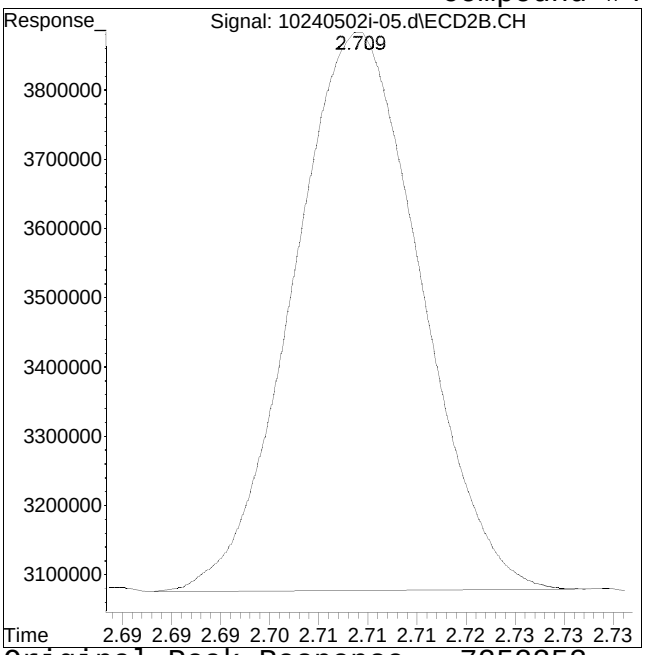


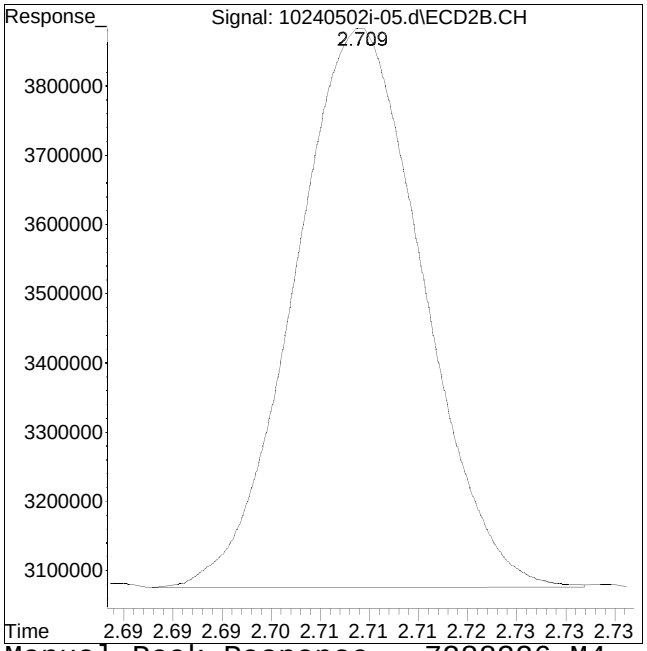
Original Peak Response = 21315552 Manual Peak Response = 21411066 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-05.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 4:31 pm Instrument : Pest 10
Sample : il3pest,42e,,pp 11404 L0.0Quant Date : 5/7/2024 5:37 pm

Compound #44: beta-BHC #2



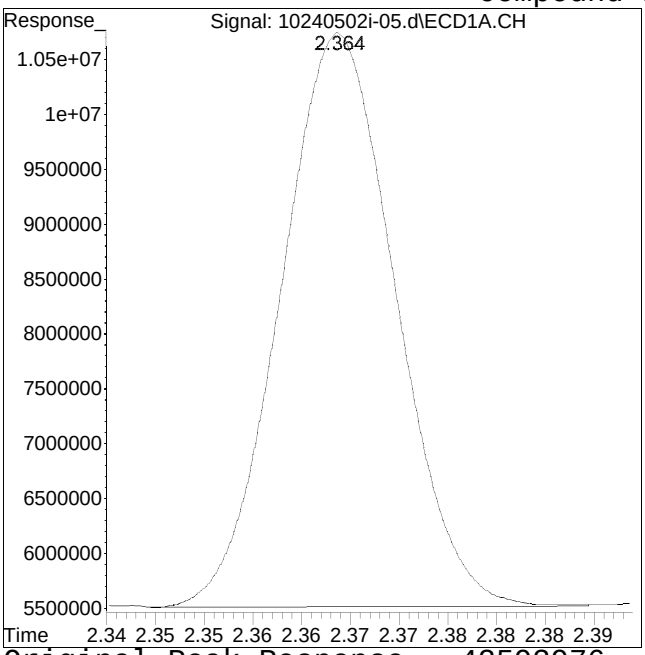


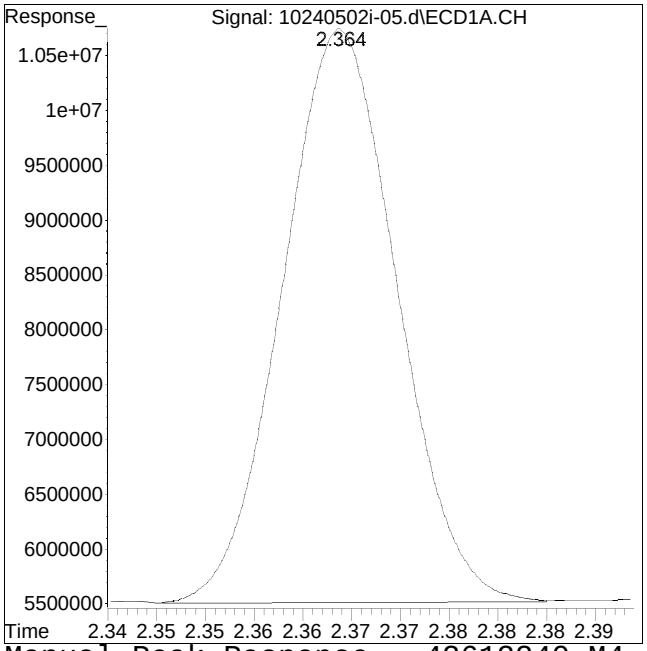
Original Peak Response = 7252353 Manual Peak Response = 7288326 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-05.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 4:31 pm Instrument : Pest 10
Sample : il3pest,42e,,pp 11404 L0.0Quant Date : 5/7/2024 5:37 pm

Compound #7: delta-BHC



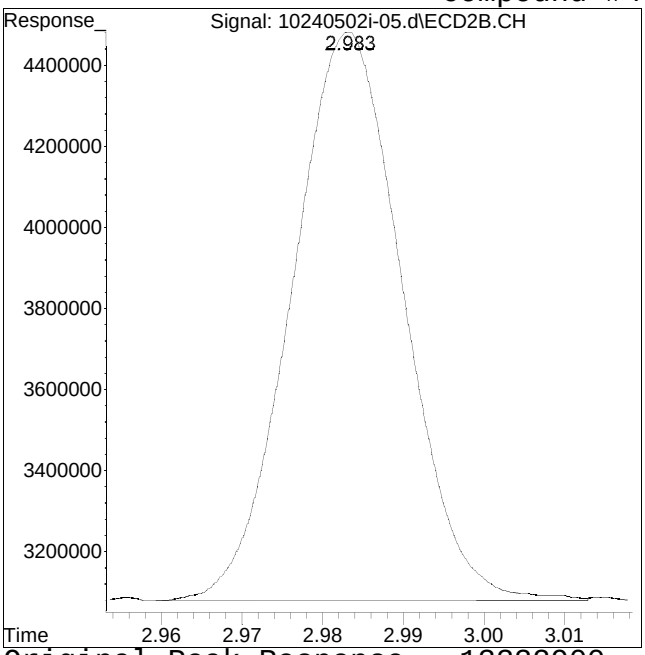


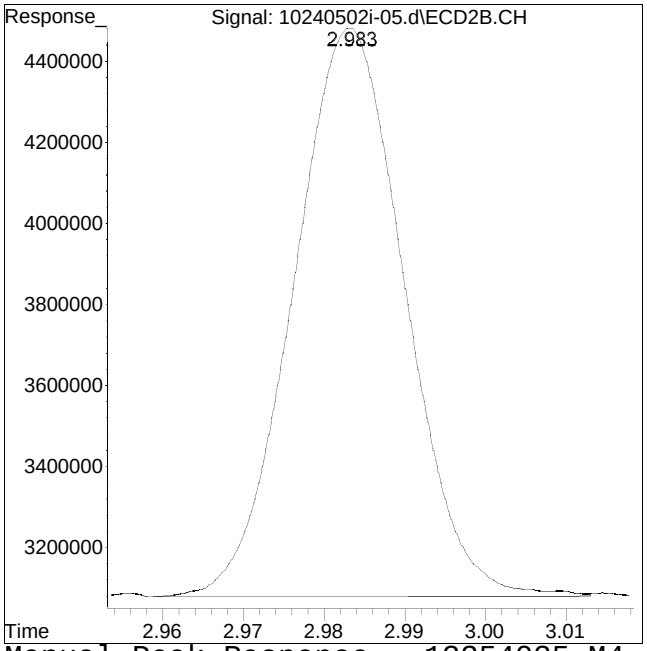
Original Peak Response = 42593976 Manual Peak Response = 42612240 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-05.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 4:31 pm Instrument : Pest 10
Sample : il3pest,42e,,pp 11404 L0.0Quant Date : 5/7/2024 5:37 pm

Compound #45: delta-BHC #2



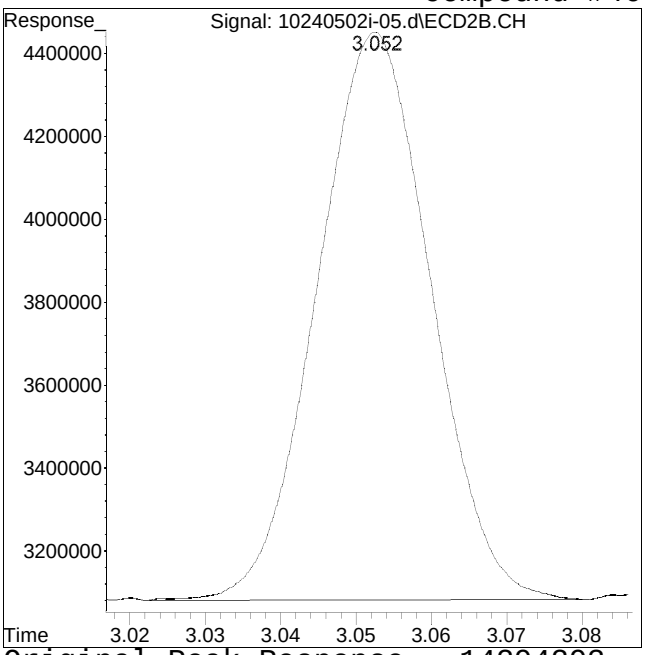


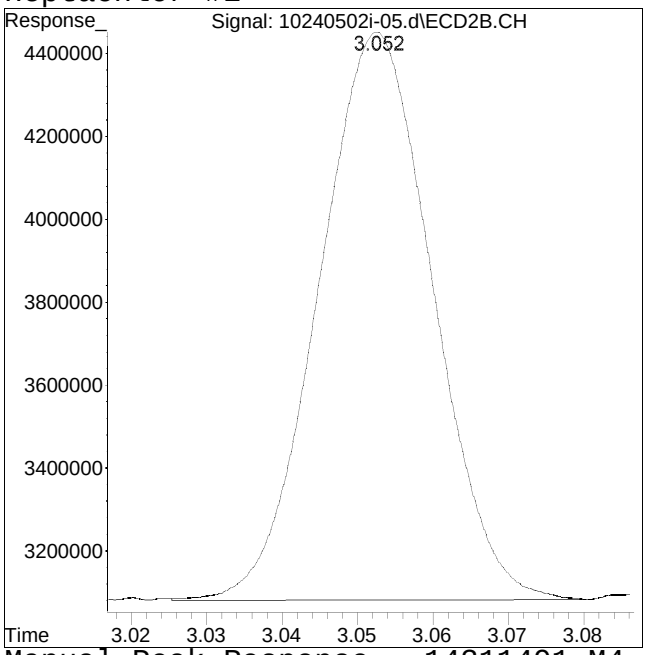
Original Peak Response = 13332900 Manual Peak Response = 13354035 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-05.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 4:31 pm Instrument : Pest 10
Sample : il3pest,42e,,pp 11404 L0.0Quant Date : 5/7/2024 5:37 pm

Compound #46: Heptachlor #2



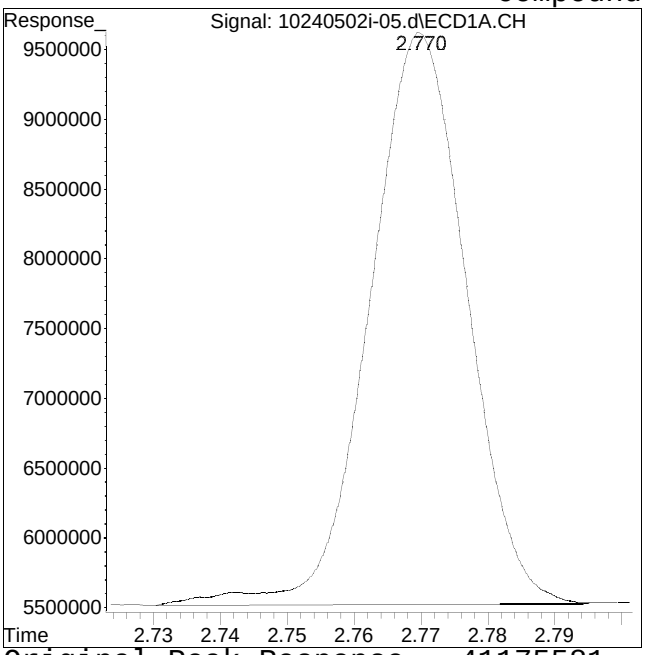


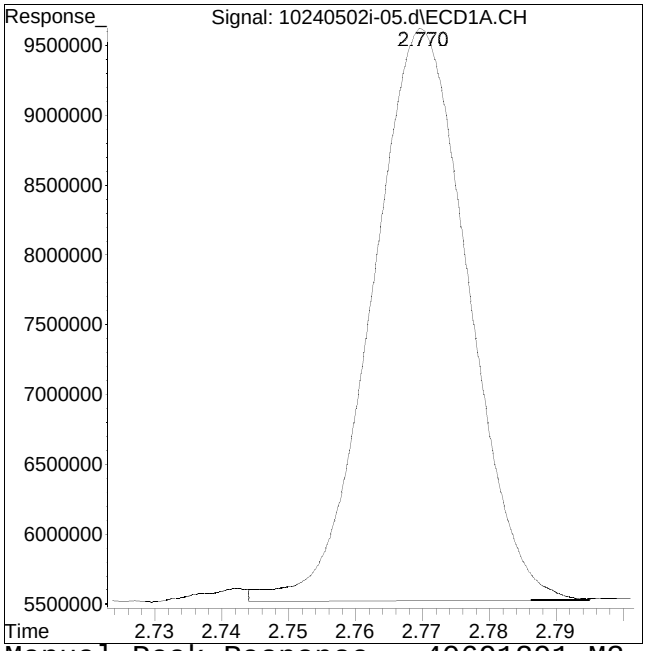
Original Peak Response = 14294293 Manual Peak Response = 14311491 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-05.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 4:31 pm Instrument : Pest 10
Sample : il3pest,42e,,pp 11404 L0.0Quant Date : 5/7/2024 5:37 pm

Compound #9: Aldrin



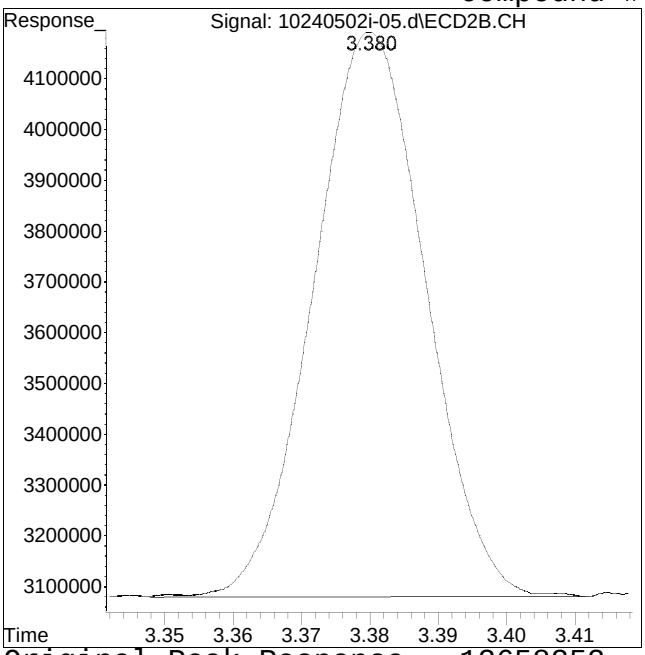


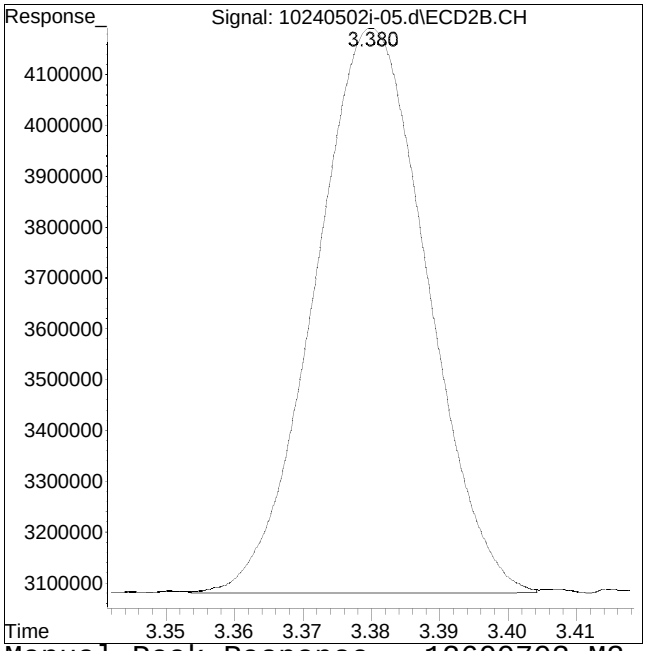
Original Peak Response = 41175581 Manual Peak Response = 40691291 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-05.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 4:31 pm Instrument : Pest 10
Sample : il3pest,42e,,pp 11404 L0.0Quant Date : 5/7/2024 5:37 pm

Compound #47: Aldrin #2



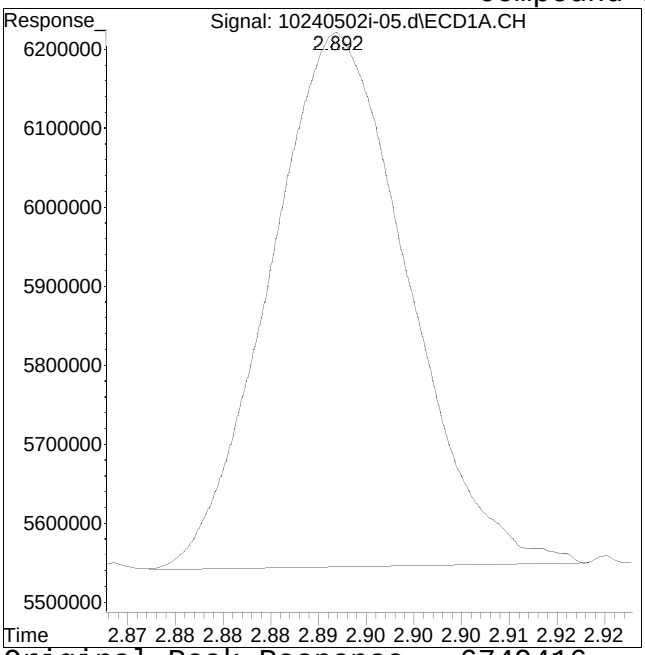


Original Peak Response = 12658252 Manual Peak Response = 12600703 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

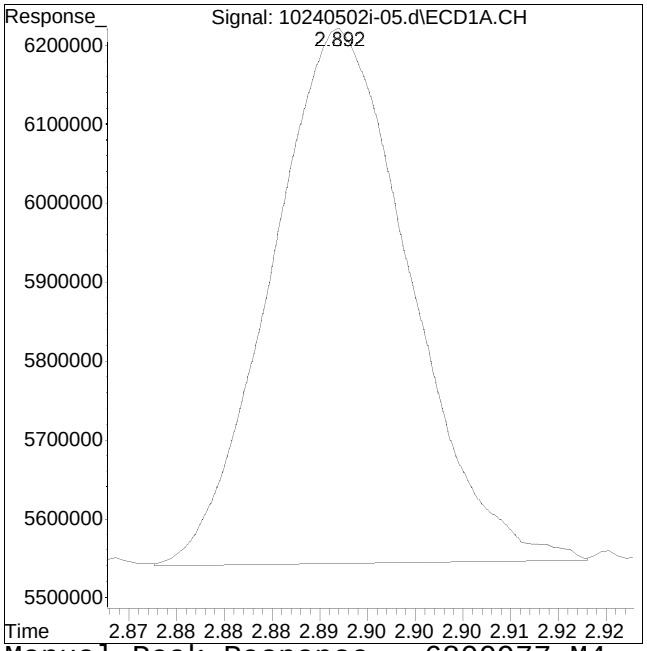
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-05.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 4:31 pm Instrument : Pest 10
Sample : il3pest,42e,,pp 11404 L0.0Quant Date : 5/7/2024 5:37 pm

Compound #10: Alachlor



Original Peak Response = 6749416



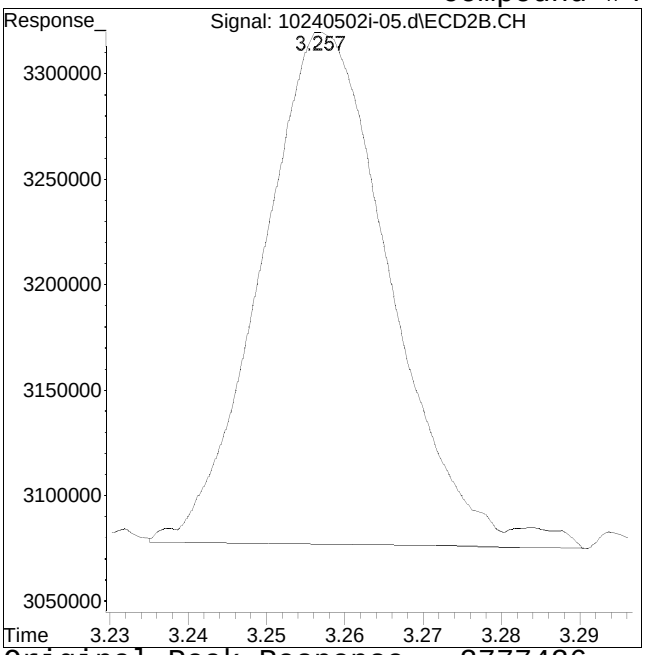
Manual Peak Response = 6800977 M4

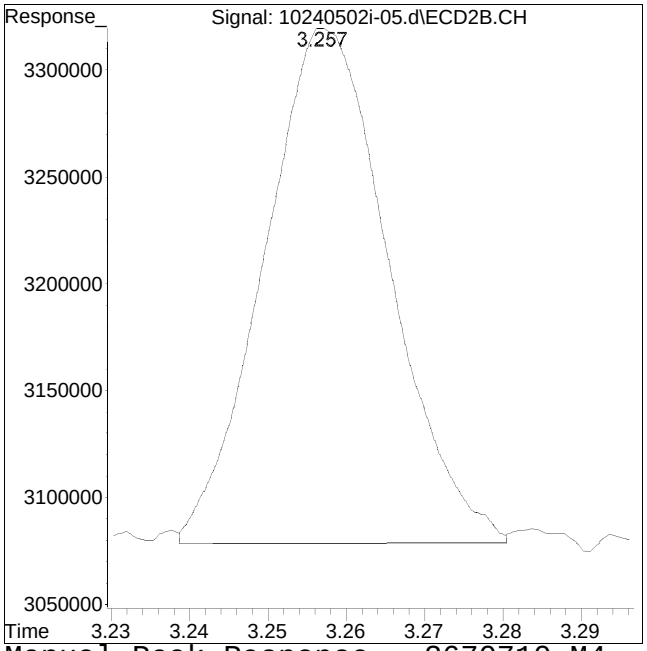
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-05.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 4:31 pm Instrument : Pest 10
Sample : il3pest,42e,,pp 11404 L0.0Quant Date : 5/7/2024 5:37 pm

Compound #48: Alachlor #2



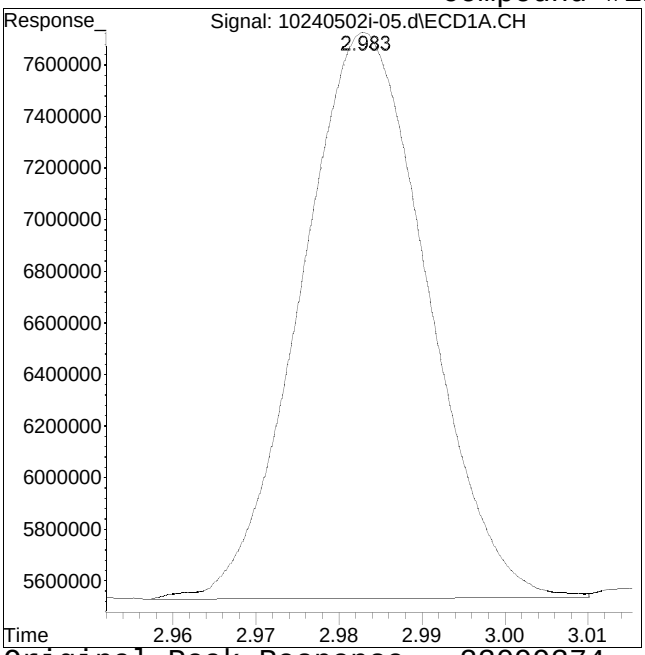


Original Peak Response = 2777426 Manual Peak Response = 2670710 M4
M4 = Poor automated baseline construction.

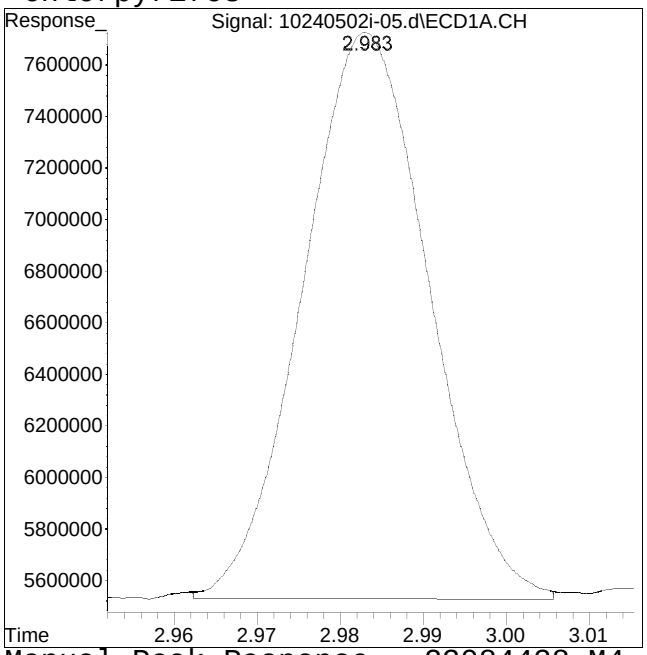
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-05.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 4:31 pm Instrument : Pest 10
Sample : il3pest,42e,,pp 11404 L0.0Quant Date : 5/7/2024 5:37 pm

Compound #11: Chlorpyrifos



Original Peak Response = 23099374

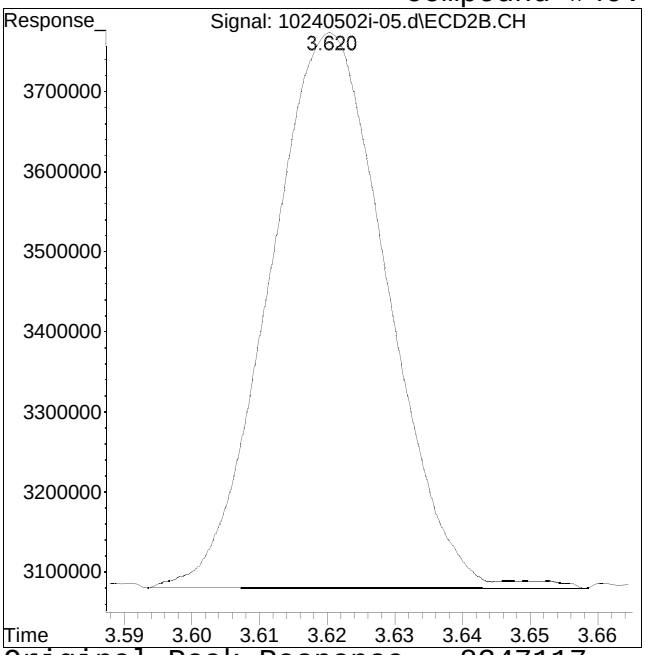


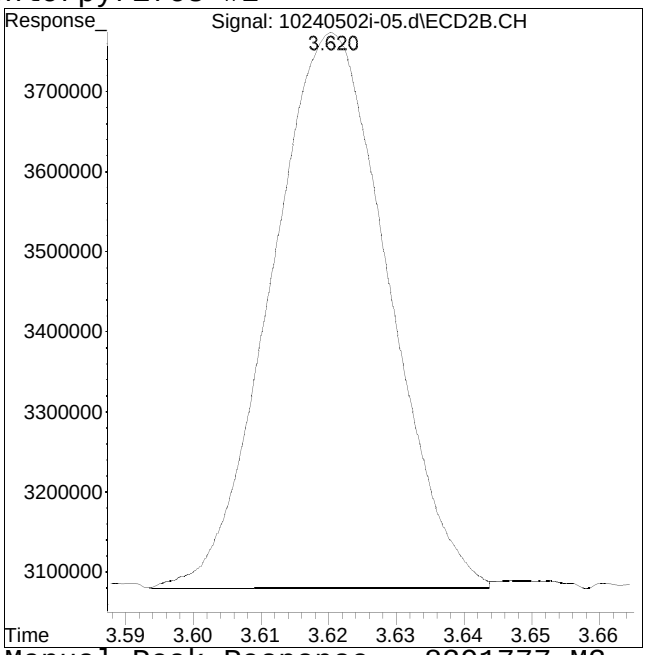
Manual Peak Response = 23084438 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-05.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 4:31 pm Instrument : Pest 10
Sample : il3pest,42e,,pp 11404 L0.0Quant Date : 5/7/2024 5:37 pm

Compound #49: Chlorpyrifos #2



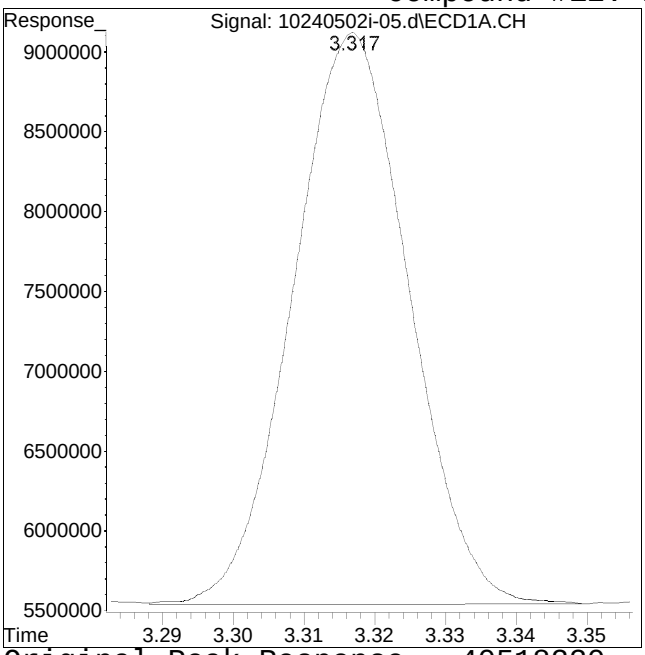


Original Peak Response = 8347117 Manual Peak Response = 8291777 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

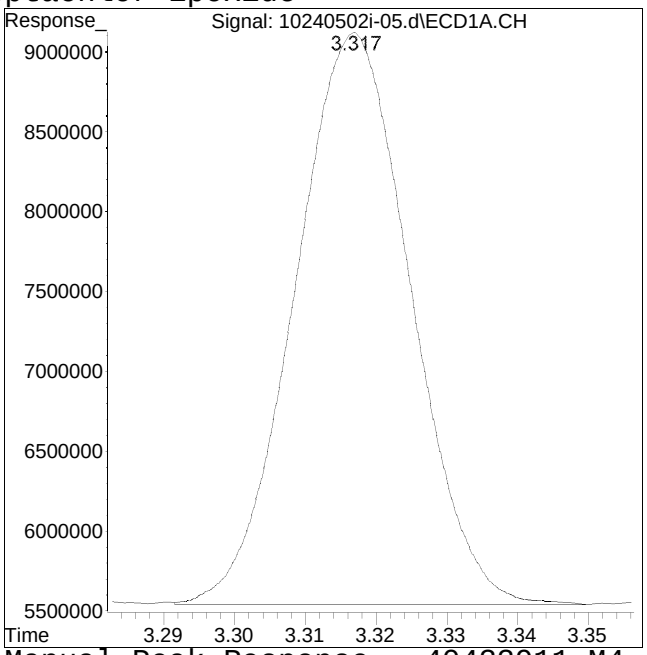
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-05.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 4:31 pm Instrument : Pest 10
Sample : il3pest,42e,,pp 11404 L0.0Quant Date : 5/7/2024 5:37 pm

Compound #12: Heptachlor Epoxide



Original Peak Response = 40518230



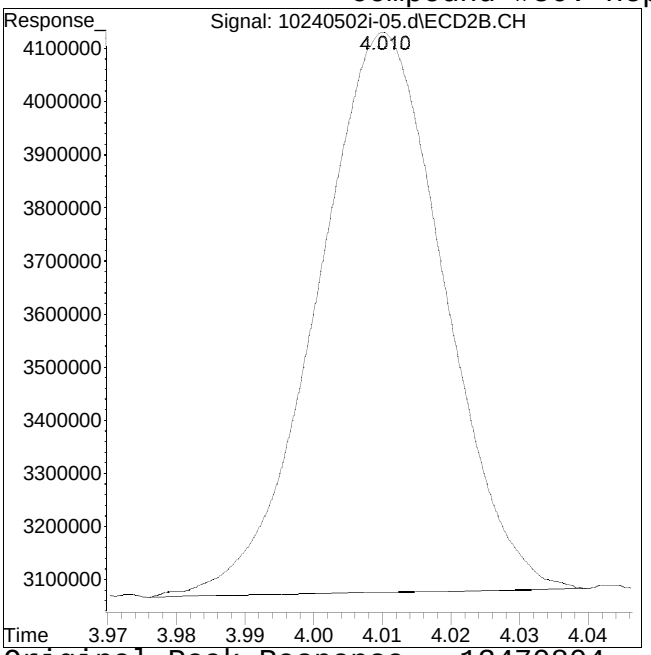
Manual Peak Response = 40433911 M4

M4 = Poor automated baseline construction.

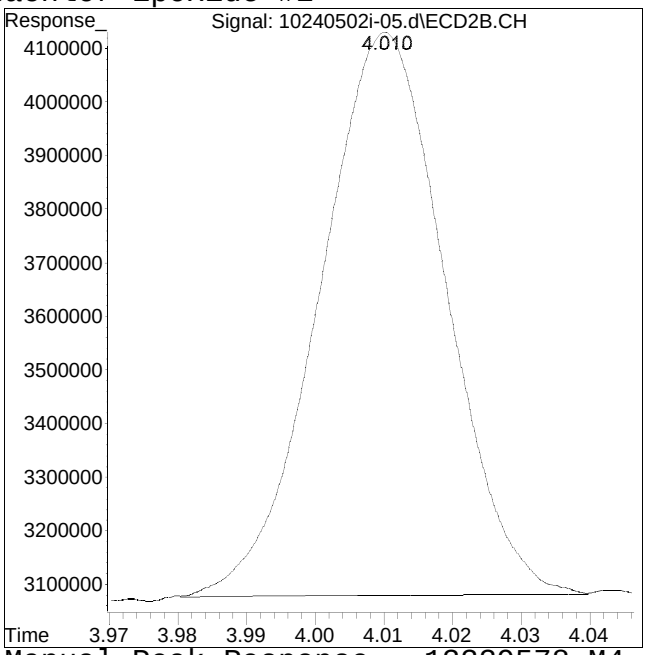
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-05.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 4:31 pm Instrument : Pest 10
Sample : il3pest,42e,,pp 11404 L0.0Quant Date : 5/7/2024 5:37 pm

Compound #50: Heptachlor Epoxide #2



Original Peak Response = 13470804



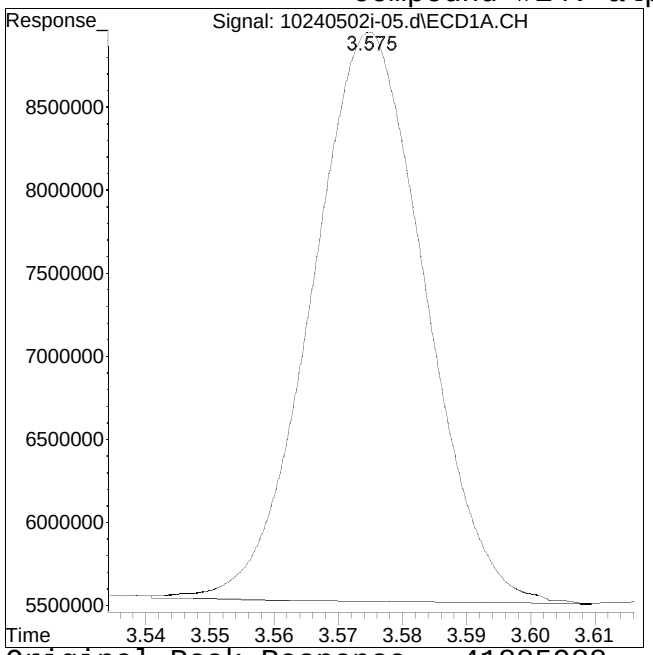
Manual Peak Response = 13339578 M4

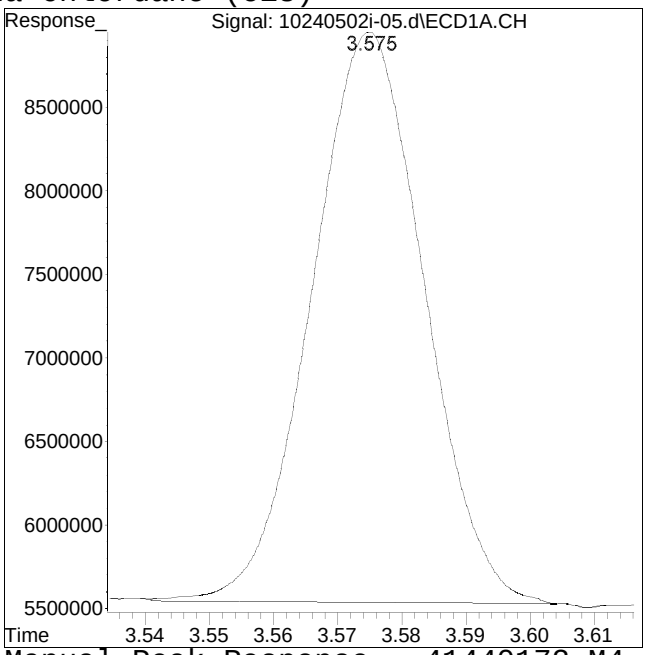
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-05.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 4:31 pm Instrument : Pest 10
Sample : il3pest,42e,,pp 11404 L0.0Quant Date : 5/7/2024 5:37 pm

Compound #14: alpha-Chlordane (cis)



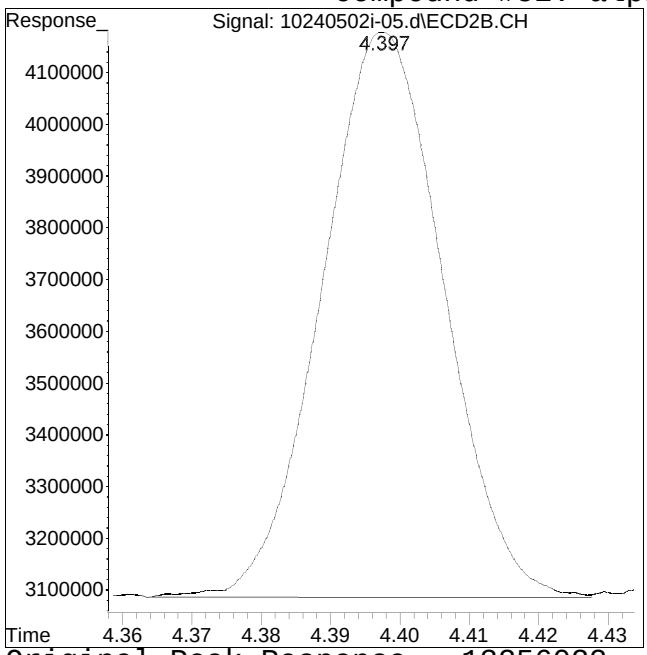


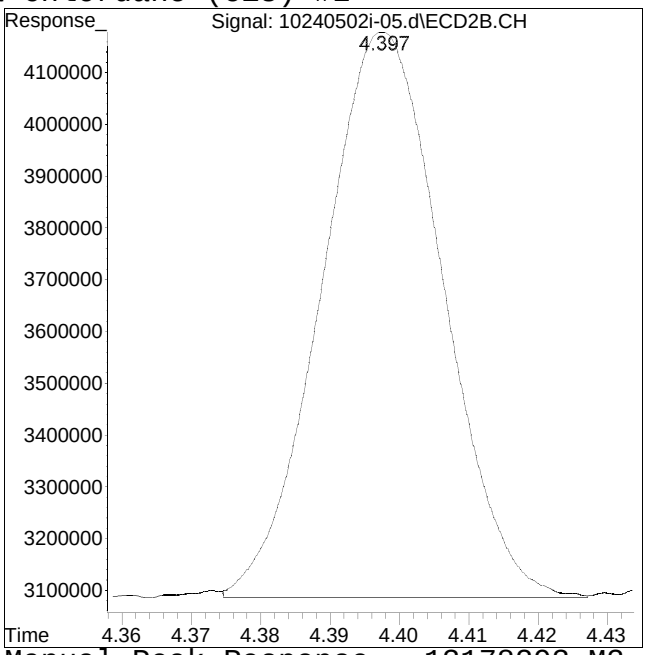
Original Peak Response = 41885988 Manual Peak Response = 41440172 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-05.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 4:31 pm Instrument : Pest 10
Sample : il3pest,42e,,pp 11404 L0.0Quant Date : 5/7/2024 5:37 pm

Compound #52: alpha-Chlordane (cis) #2



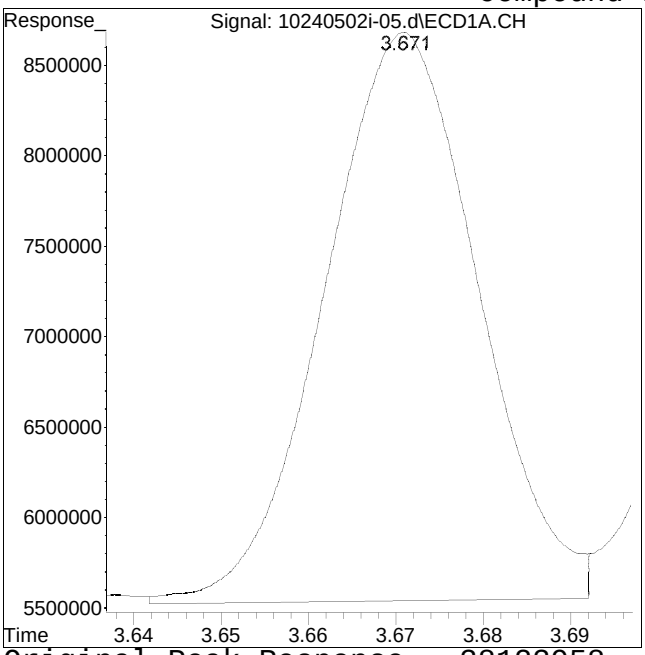


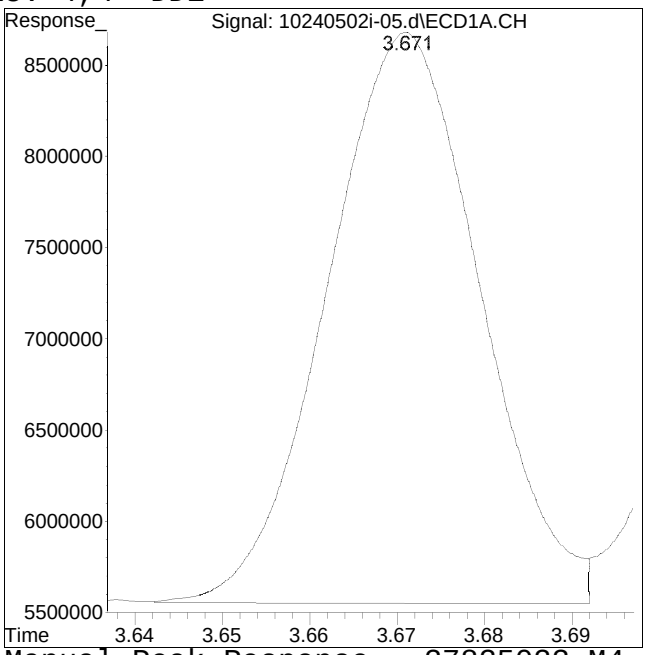
Original Peak Response = 13256022 Manual Peak Response = 13178293 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-05.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 4:31 pm Instrument : Pest 10
Sample : il3pest,42e,,pp 11404 L0.0Quant Date : 5/7/2024 5:37 pm

Compound #15: 4,4'-DDE



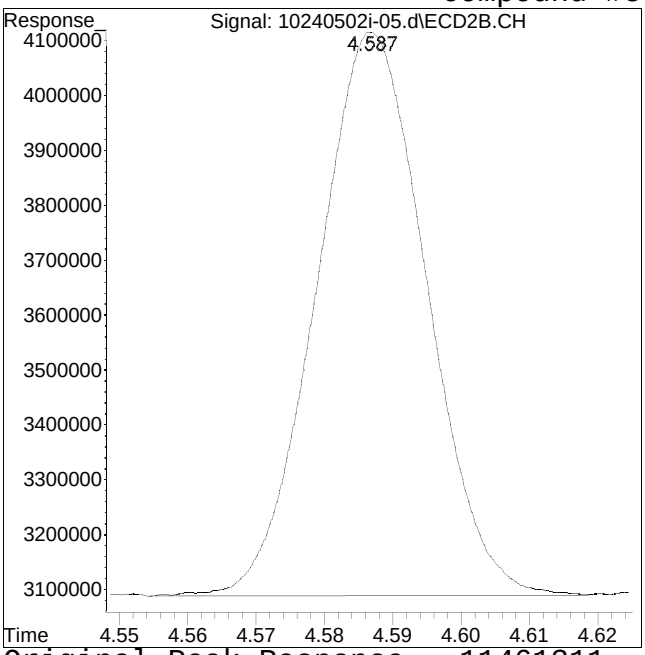


Original Peak Response = 38123958 Manual Peak Response = 37835033 M4
M4 = Poor automated baseline construction.

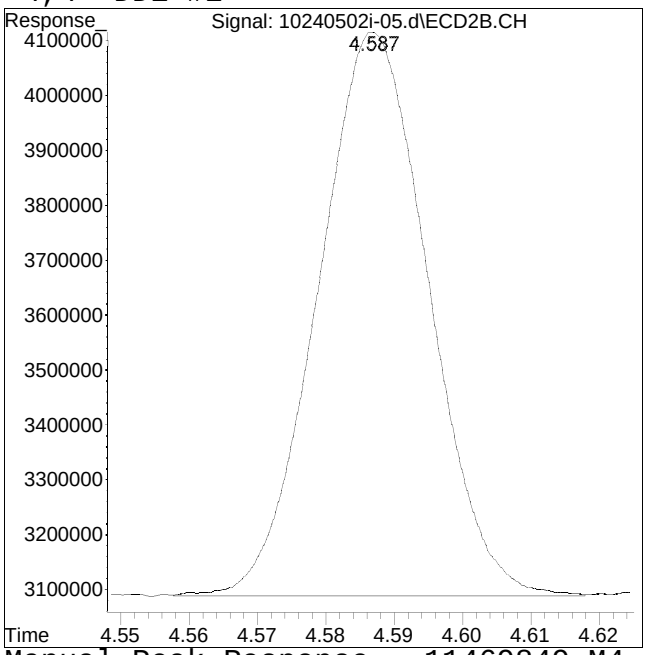
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-05.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 4:31 pm Instrument : Pest 10
Sample : il3pest,42e,,pp 11404 L0.0Quant Date : 5/7/2024 5:37 pm

Compound #53: 4,4'-DDE #2



Original Peak Response = 11461311



Manual Peak Response = 11469849 M4

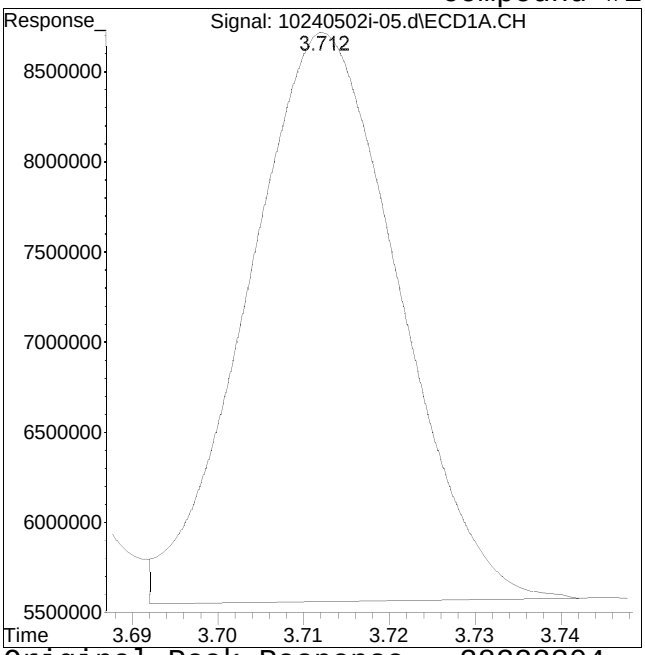
M4 = Poor automated baseline construction.

Manual Integration Report

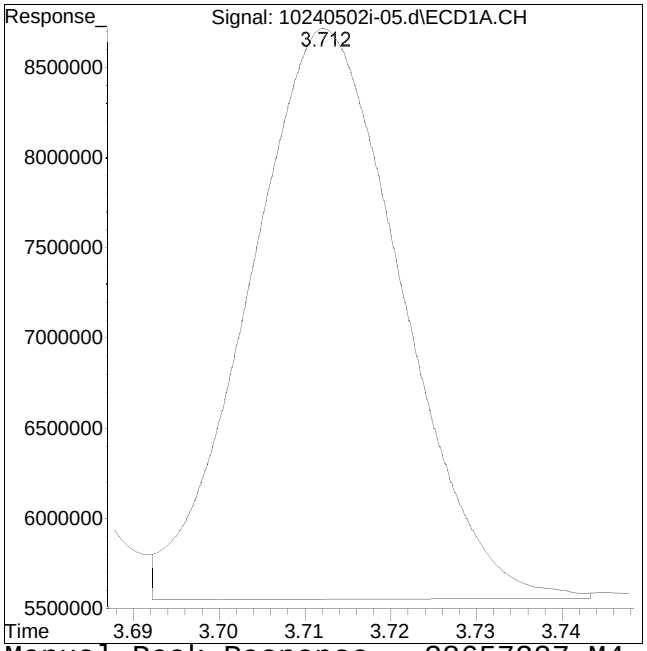
Data Path : I:\PEST\Pest10\2024\240502Q
Data File : 10240502i-05.d
Date Inj'd : 5/2/2024 4:31 pm
Sample : il3pest,42e,,pp 11404 L0.0

Method : pest10_2024_05_02_ugL_ic
Operator : PEST10:jag
Instrument : Pest 10
Quant Date : 5/7/2024 5:37 pm

Compound #16: Endosulfan I



Original Peak Response = 38322304



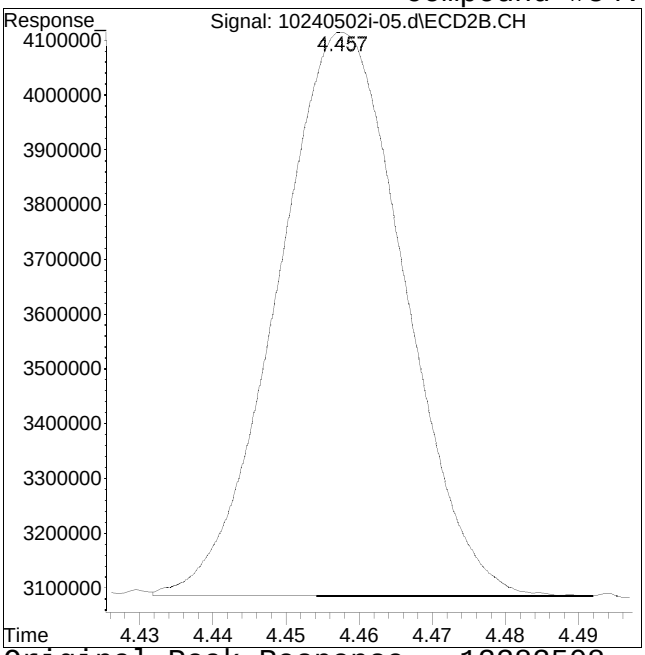
Manual Peak Response = 38657227 M4

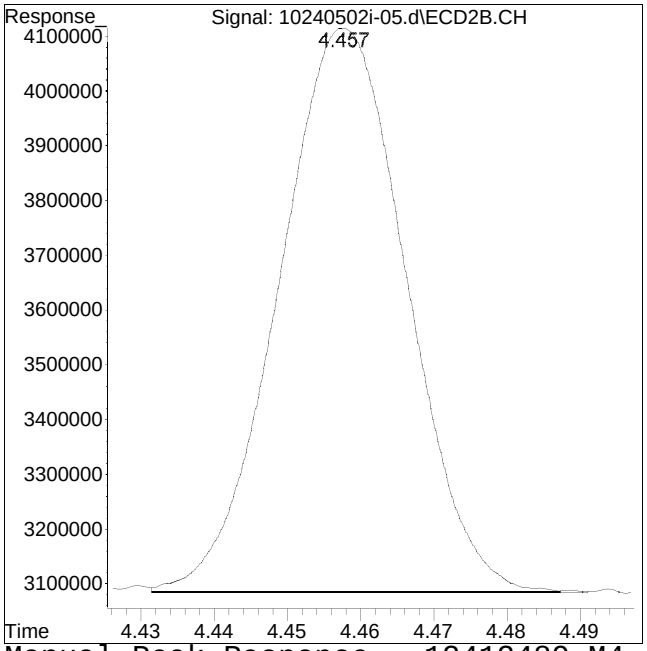
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-05.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 4:31 pm Instrument : Pest 10
Sample : il3pest,42e,,pp 11404 L0.0Quant Date : 5/7/2024 5:37 pm

Compound #54: Endosulfan I #2





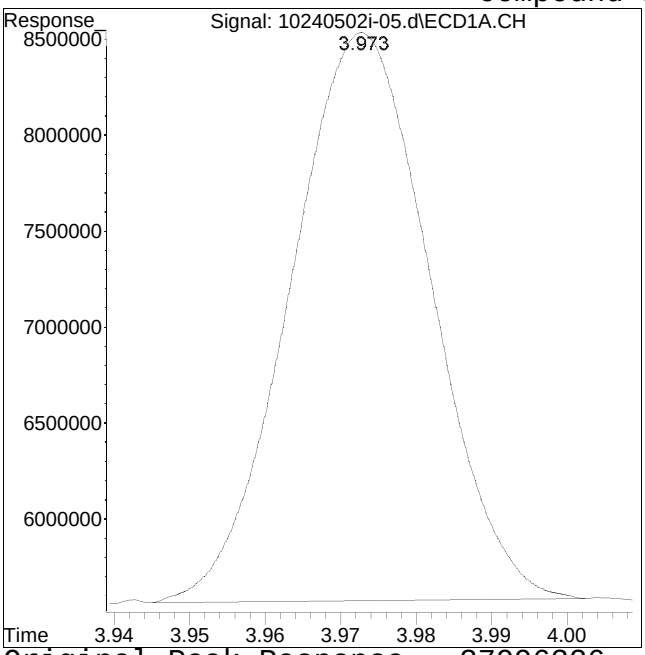
Original Peak Response = 12383508 Manual Peak Response = 12412489 M4
M4 = Poor automated baseline construction.

Manual Integration Report

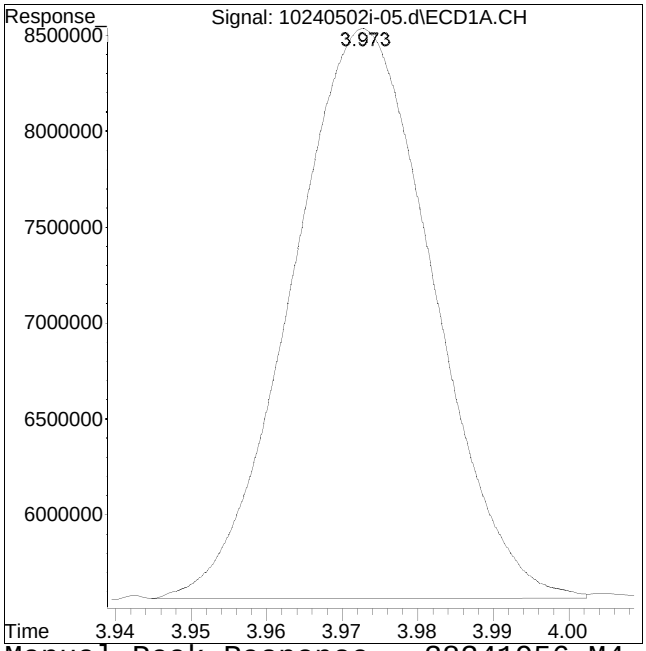
Data Path : I:\PEST\Pest10\2024\240502Q
Data File : 10240502i-05.d
Date Inj'd : 5/2/2024 4:31 pm
Sample : il3pest,42e,,pp 11404 L0.0

Method : pest10_2024_05_02_ugL_ic
Operator : PEST10:jag
Instrument : Pest 10
Quant Date : 5/7/2024 5:37 pm

Compound #17: Dieldrin



Original Peak Response = 37996326



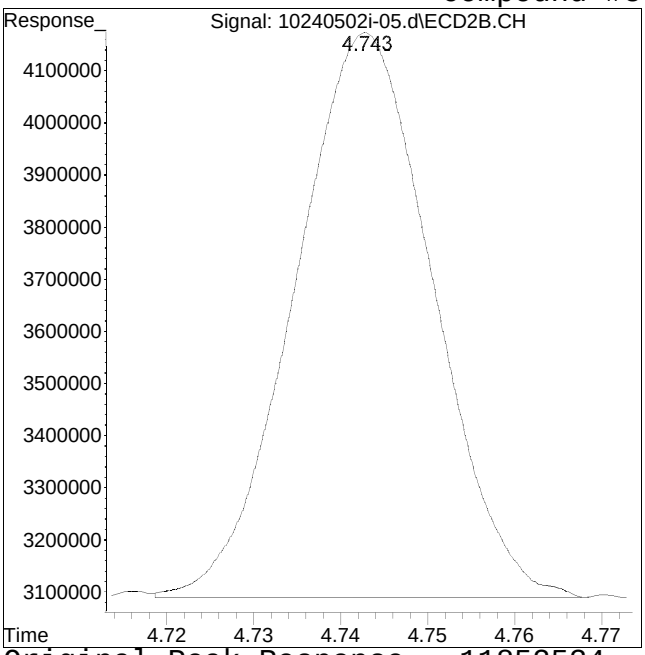
Manual Peak Response = 38341956 M4

M4 = Poor automated baseline construction.

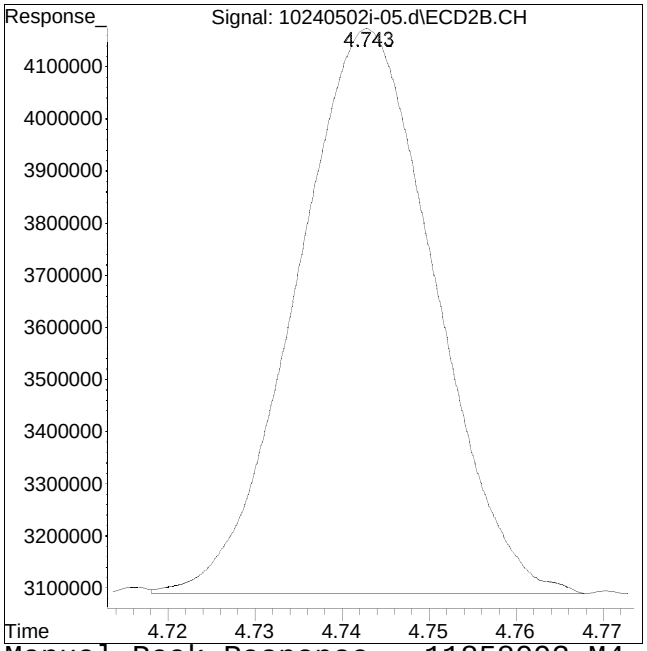
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-05.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 4:31 pm Instrument : Pest 10
Sample : il3pest,42e,,pp 11404 L0.0Quant Date : 5/7/2024 5:37 pm

Compound #55: Dieldrin #2



Original Peak Response = 11852534

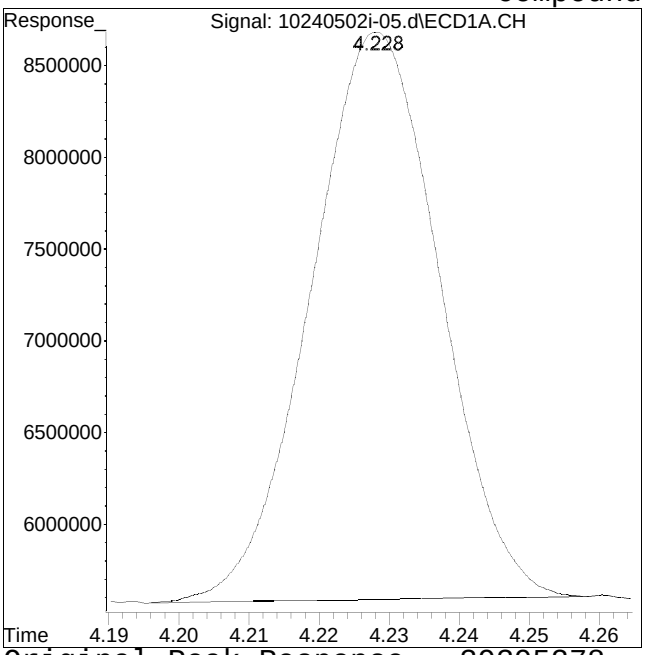


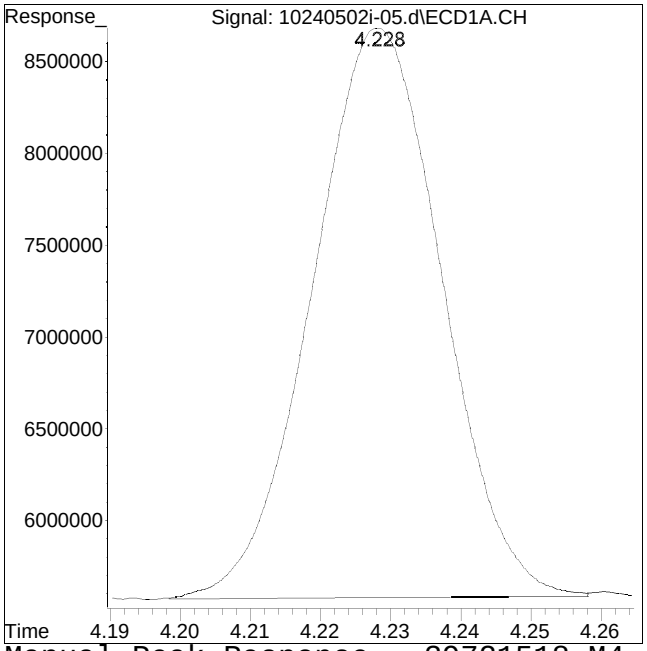
Manual Peak Response = 11858093 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-05.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 4:31 pm Instrument : Pest 10
Sample : il3pest,42e,,pp 11404 L0.0Quant Date : 5/7/2024 5:37 pm

Compound #18: Endrin



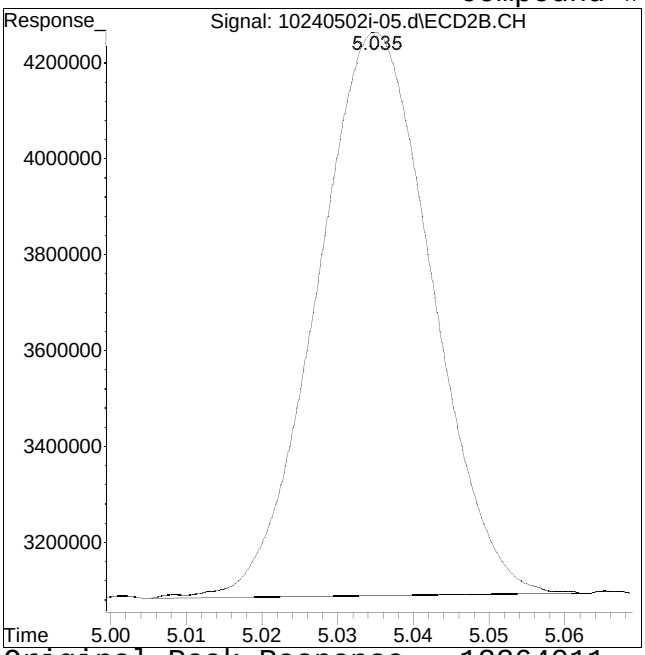


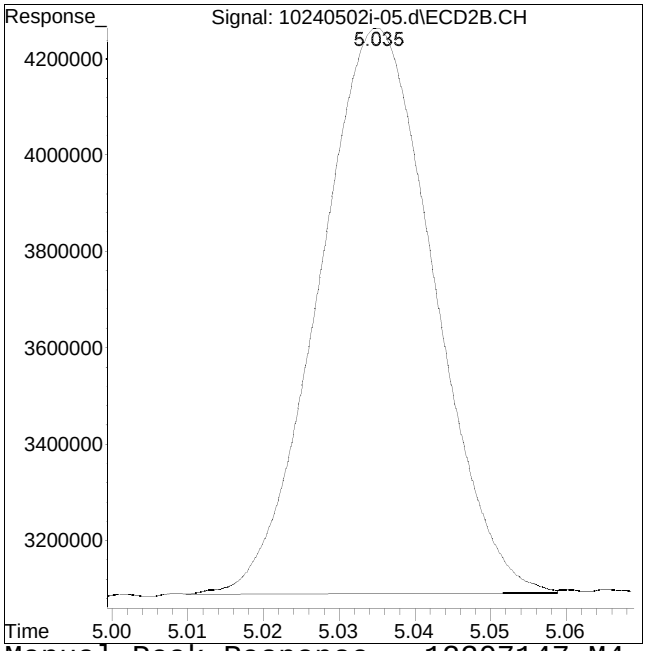
Original Peak Response = 39395278 Manual Peak Response = 39721518 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-05.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 4:31 pm Instrument : Pest 10
Sample : il3pest,42e,,pp 11404 L0.0Quant Date : 5/7/2024 5:37 pm

Compound #56: Endrin #2



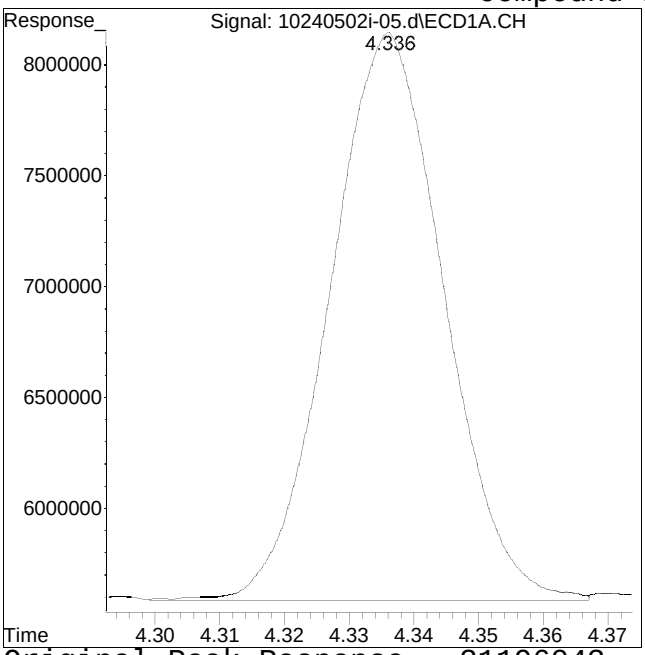


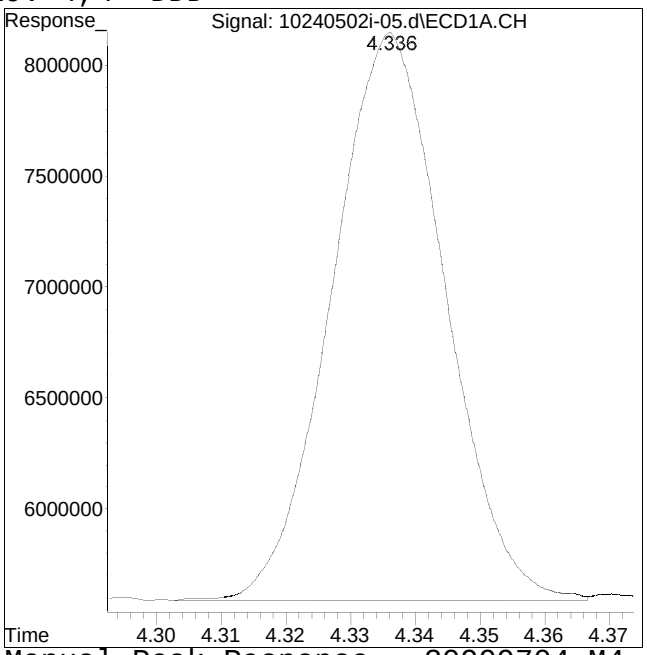
Original Peak Response = 12364011 Manual Peak Response = 12307147 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-05.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 4:31 pm Instrument : Pest 10
Sample : il3pest,42e,,pp 11404 L0.0Quant Date : 5/7/2024 5:37 pm

Compound #19: 4,4'-DDD



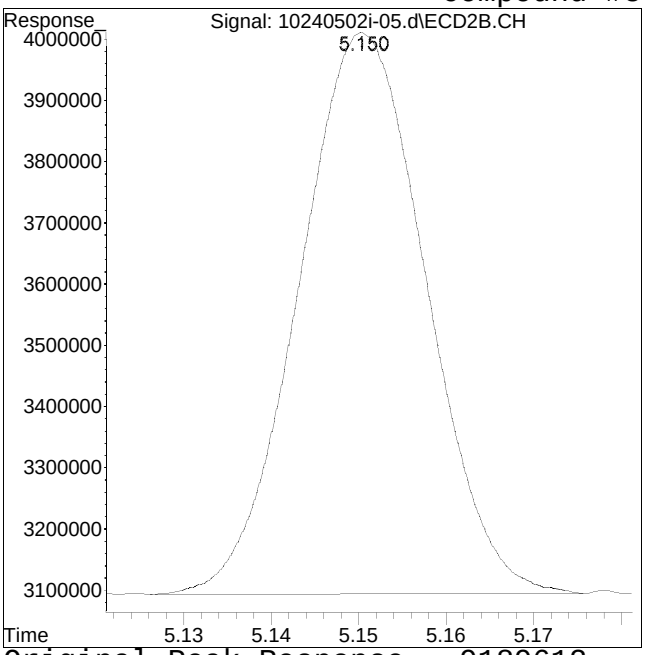


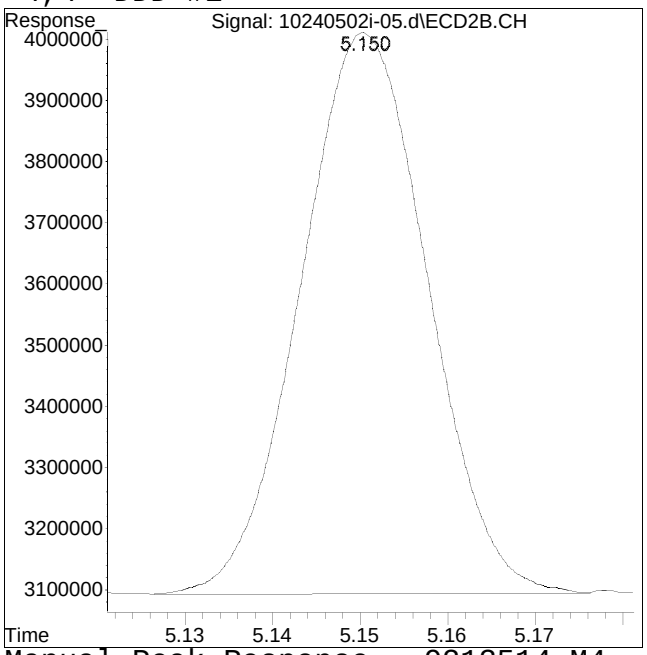
Original Peak Response = 31196043 Manual Peak Response = 30999704 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-05.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 4:31 pm Instrument : Pest 10
Sample : il3pest,42e,,pp 11404 L0.0Quant Date : 5/7/2024 5:37 pm

Compound #57: 4,4'-DDD #2



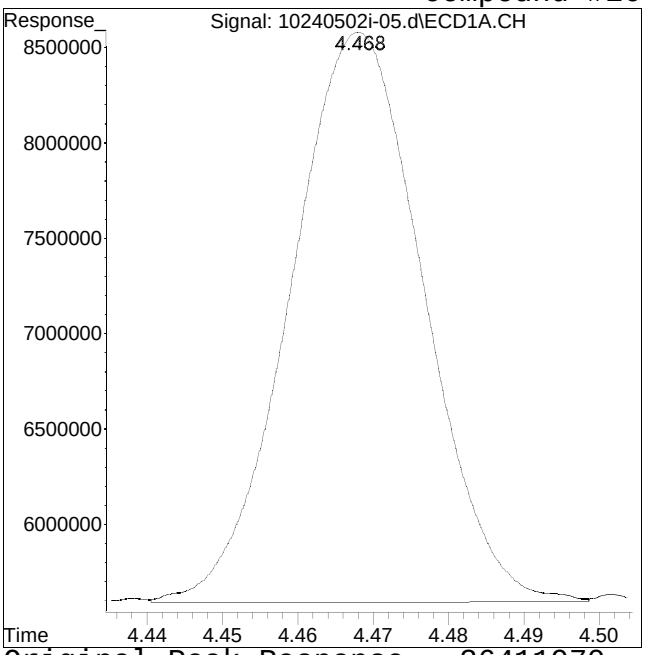


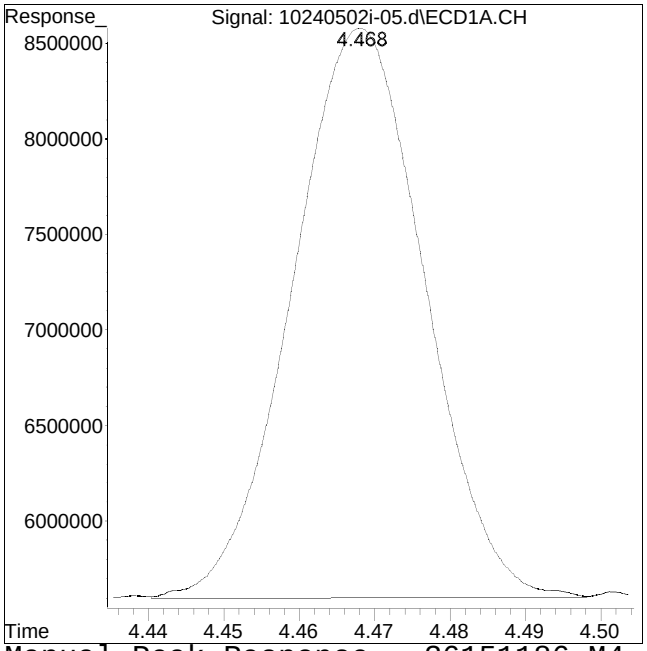
Original Peak Response = 9189612 Manual Peak Response = 9213514 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-05.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 4:31 pm Instrument : Pest 10
Sample : il3pest,42e,,pp 11404 L0.0Quant Date : 5/7/2024 5:37 pm

Compound #20: Endosulfan II



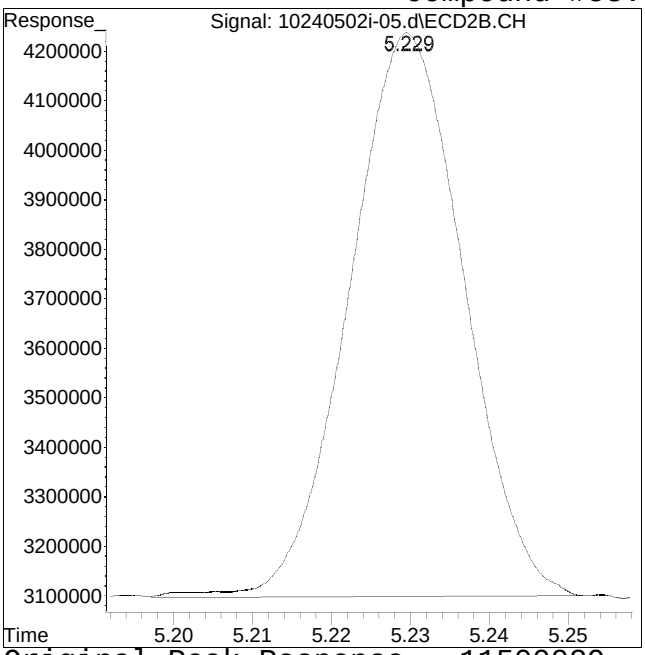


Original Peak Response = 36411970 Manual Peak Response = 36151186 M4
M4 = Poor automated baseline construction.

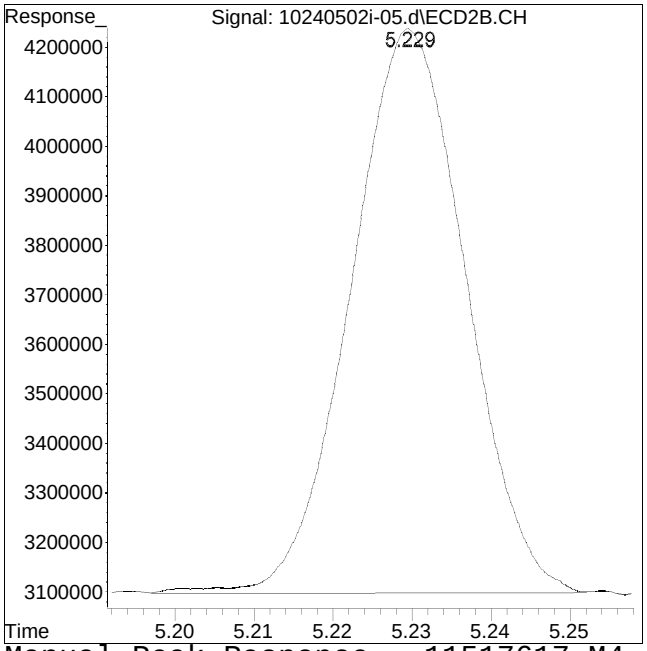
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502Q
Data File : 10240502i-05.d
Date Inj'd : 5/2/2024 4:31 pm
Sample : il3pest,42e,,pp 11404 L0.0
Method : pest10_2024_05_02_ugL_ic
Operator : PEST10:jag
Instrument : Pest 10
Quant Date : 5/7/2024 5:37 pm

Compound #58: Endosulfan II #2



Original Peak Response = 11500029



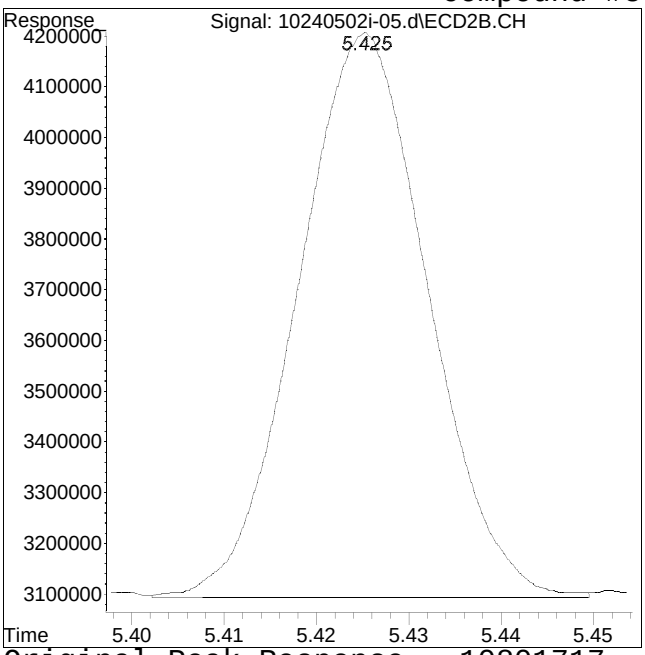
Manual Peak Response = 11517617 M4

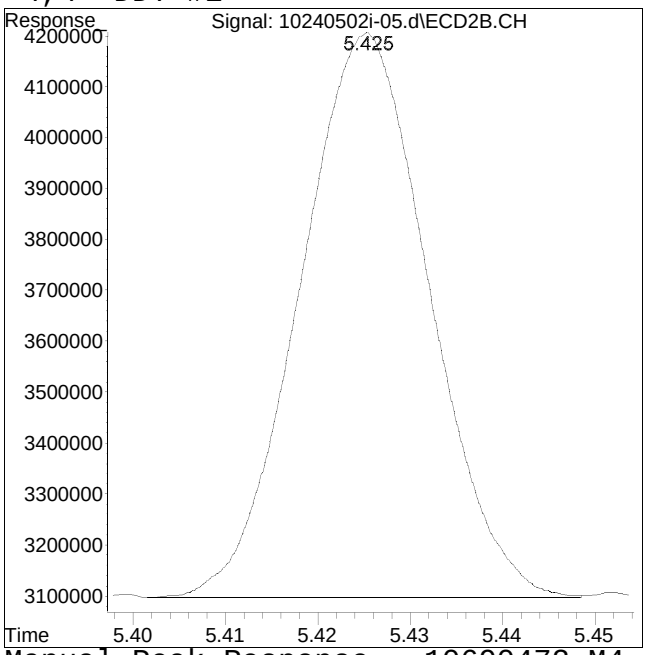
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-05.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 4:31 pm Instrument : Pest 10
Sample : il3pest,42e,,pp 11404 L0.0Quant Date : 5/7/2024 5:37 pm

Compound #59: 4,4'-DDT #2



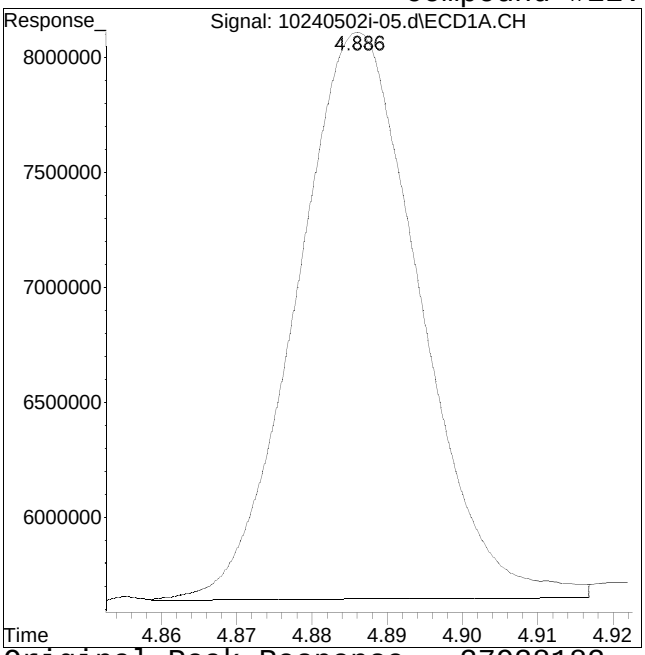


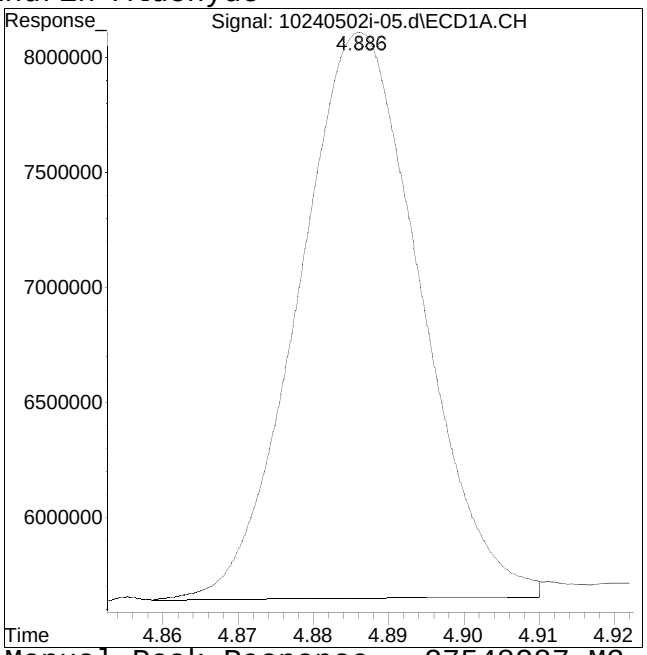
Original Peak Response = 10801717 Manual Peak Response = 10690472 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-05.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 4:31 pm Instrument : Pest 10
Sample : il3pest,42e,,pp 11404 L0.0Quant Date : 5/7/2024 5:37 pm

Compound #22: Endrin Aldehyde



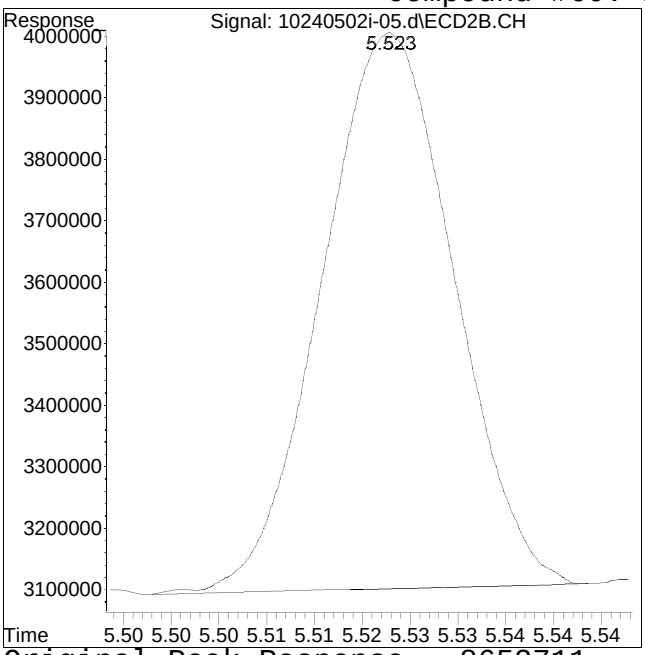


Original Peak Response = 27938182 Manual Peak Response = 27548287 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

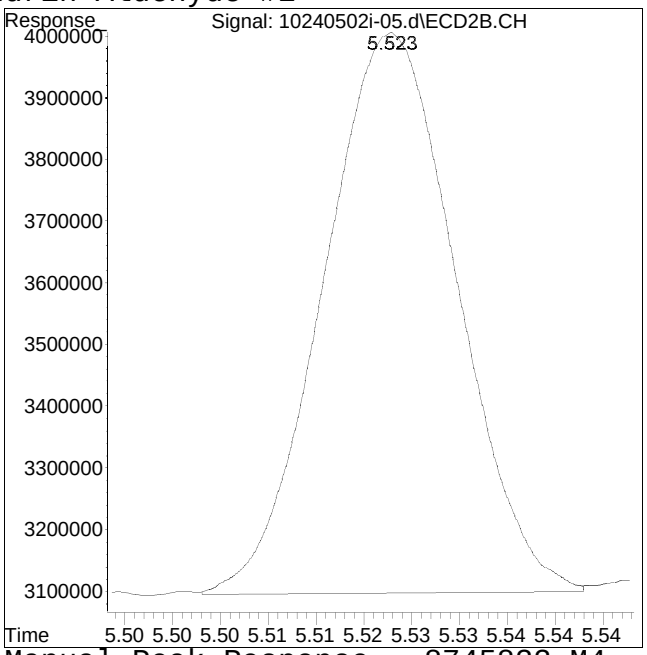
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-05.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 4:31 pm Instrument : Pest 10
Sample : il3pest,42e,,pp 11404 L0.0Quant Date : 5/7/2024 5:37 pm

Compound #60: Endrin Aldehyde #2



Original Peak Response = 8652711



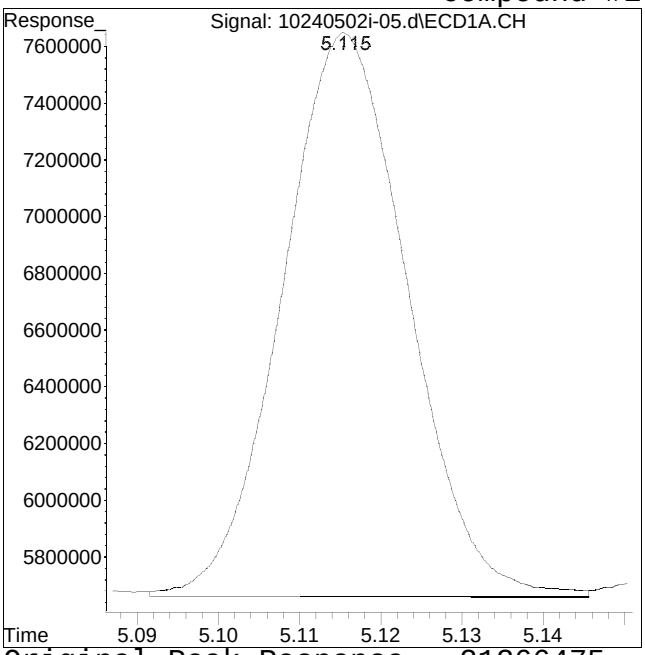
Manual Peak Response = 8745833 M4

M4 = Poor automated baseline construction.

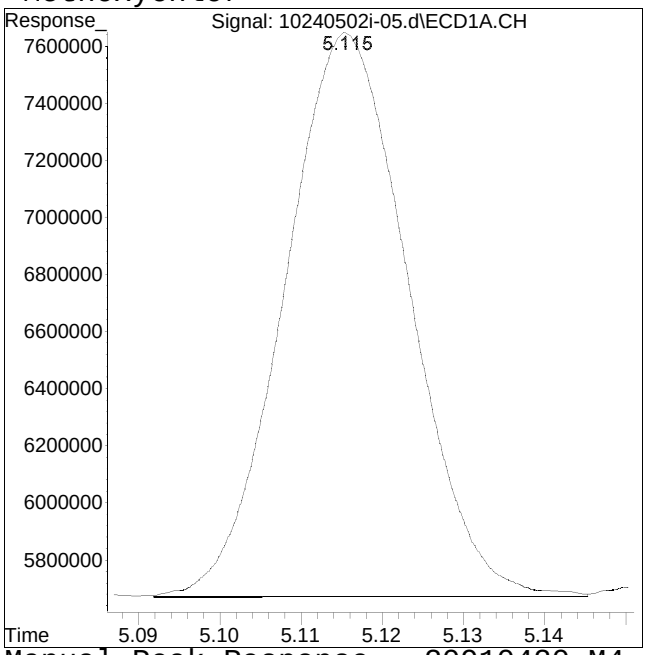
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-05.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 4:31 pm Instrument : Pest 10
Sample : il3pest,42e,,pp 11404 L0.0Quant Date : 5/7/2024 5:37 pm

Compound #23: Methoxychlor



Original Peak Response = 21266475



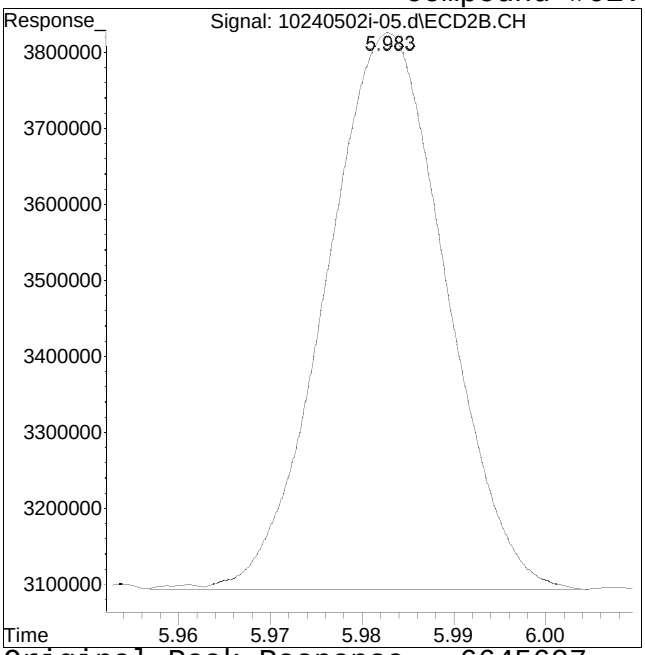
Manual Peak Response = 20910420 M4

M4 = Poor automated baseline construction.

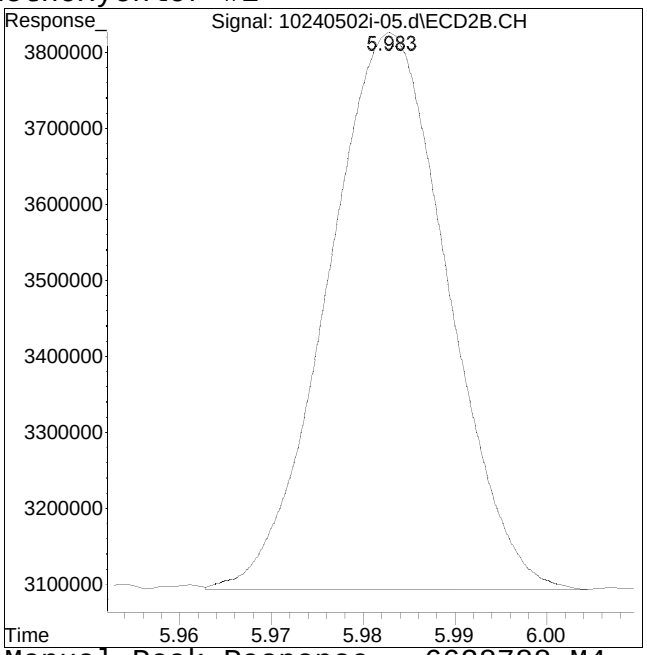
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-05.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 4:31 pm Instrument : Pest 10
Sample : il3pest,42e,,pp 11404 L0.0Quant Date : 5/7/2024 5:37 pm

Compound #61: Methoxychlor #2



Original Peak Response = 6645607



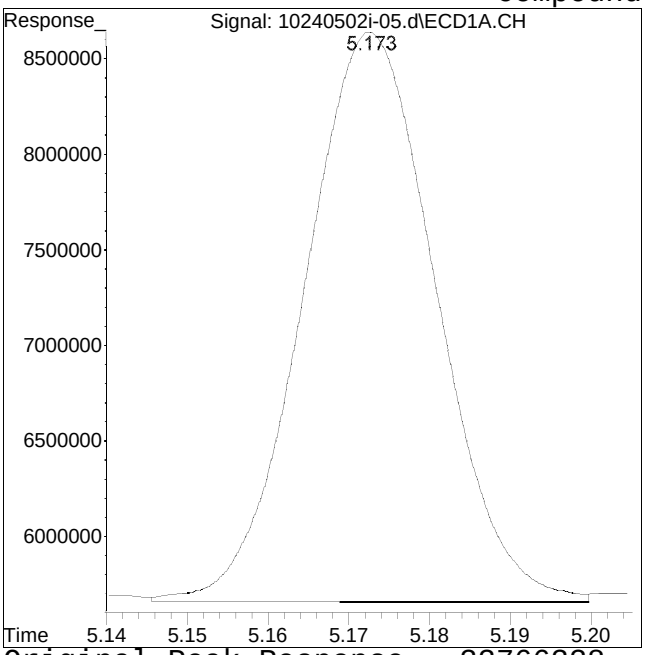
Manual Peak Response = 6628788 M4

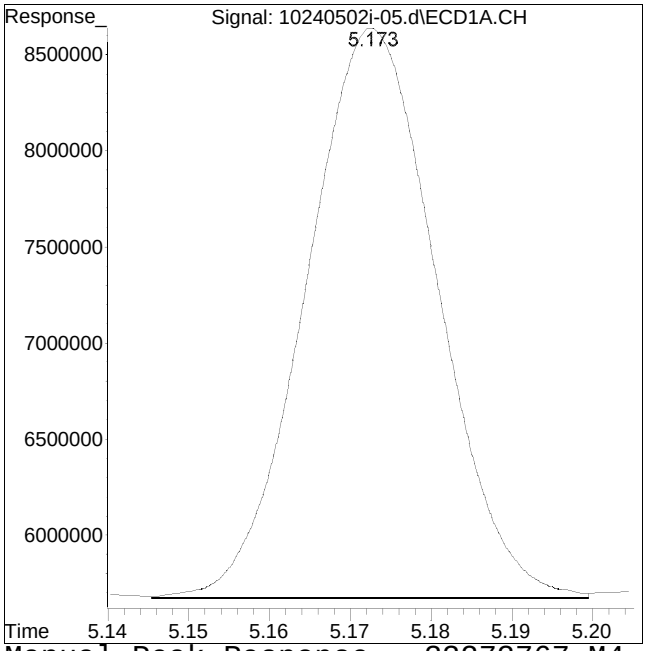
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-05.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 4:31 pm Instrument : Pest 10
Sample : il3pest,42e,,pp 11404 L0.0Quant Date : 5/7/2024 5:37 pm

Compound #24: Mirex



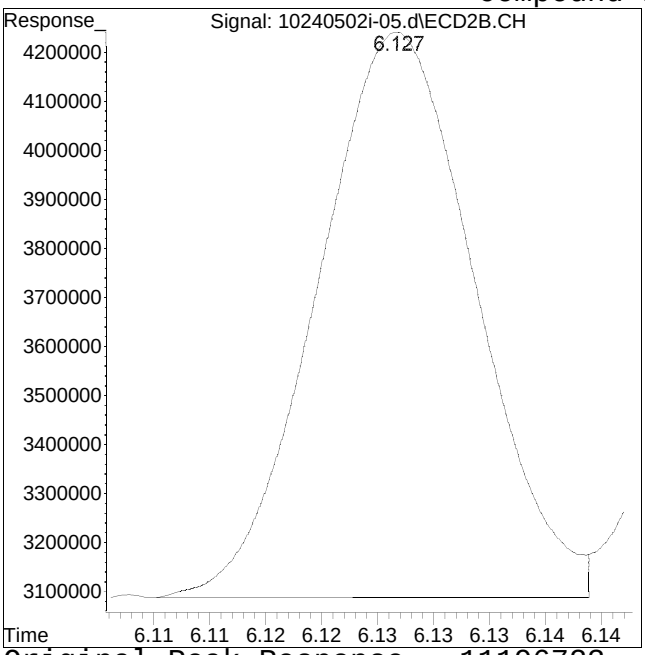


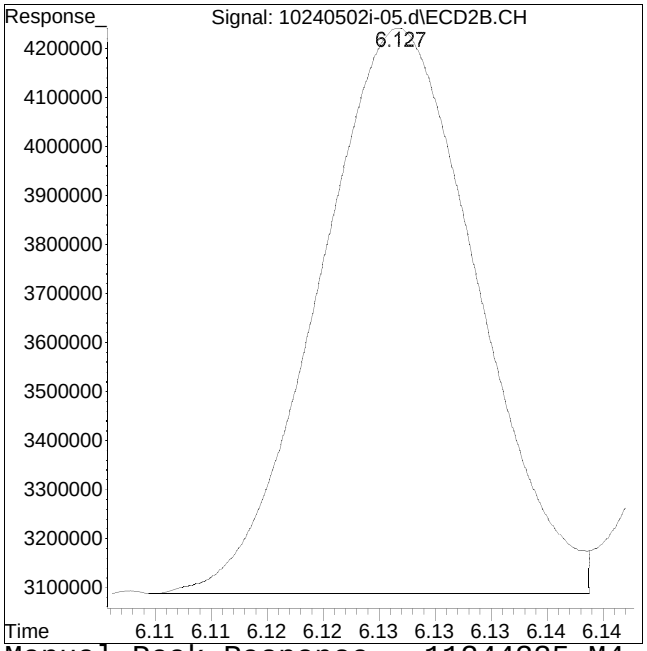
Original Peak Response = 33766338 Manual Peak Response = 33273767 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-05.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 4:31 pm Instrument : Pest 10
Sample : il3pest,42e,,pp 11404 L0.0Quant Date : 5/7/2024 5:37 pm

Compound #62: Mirex #2



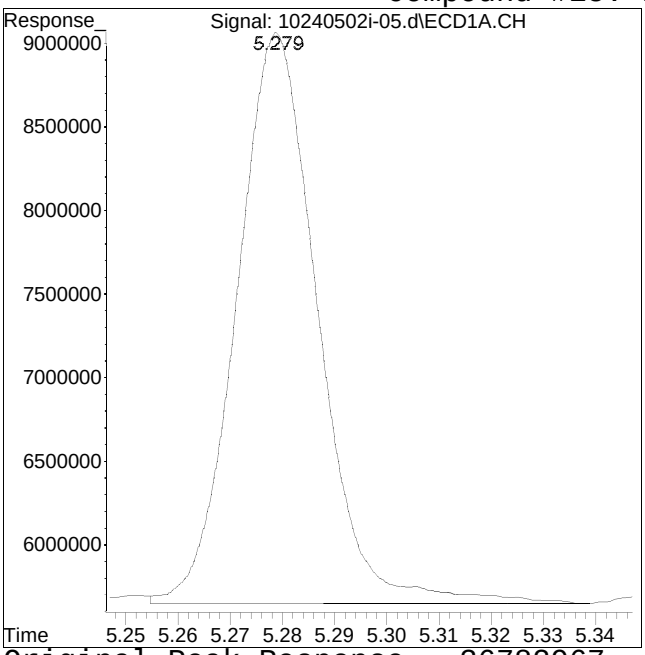


Original Peak Response = 11196723 Manual Peak Response = 11244335 M4
M4 = Poor automated baseline construction.

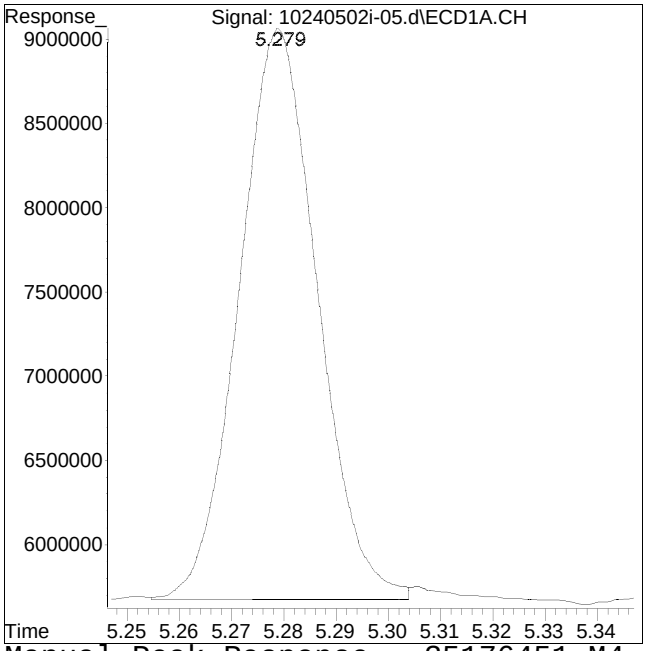
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-05.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 4:31 pm Instrument : Pest 10
Sample : il3pest,42e,,pp 11404 L0.0Quant Date : 5/7/2024 5:37 pm

Compound #25: Endosulfan Sulfate



Original Peak Response = 36782967



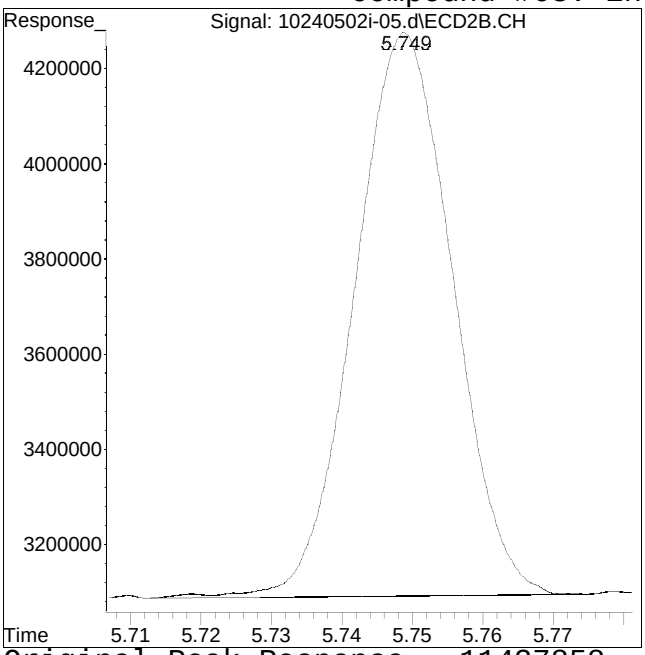
Manual Peak Response = 35176451 M4

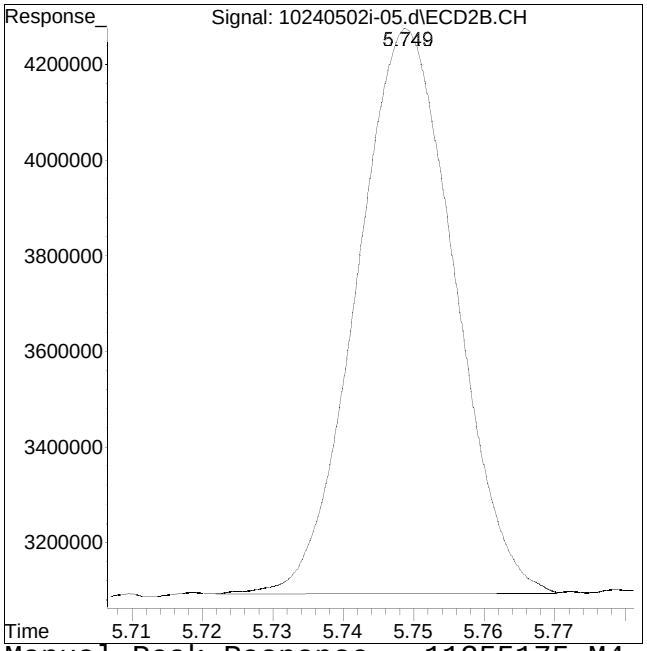
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-05.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 4:31 pm Instrument : Pest 10
Sample : il3pest,42e,,pp 11404 L0.0Quant Date : 5/7/2024 5:37 pm

Compound #63: Endosulfan Sulfate #2



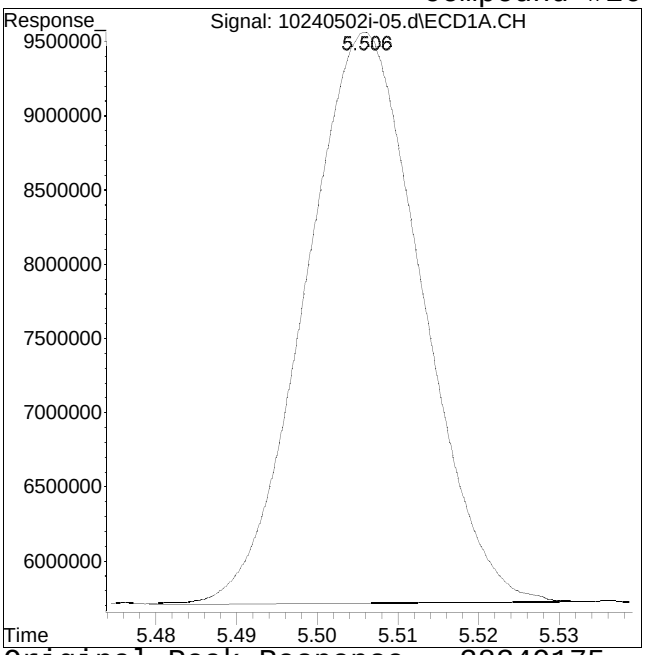


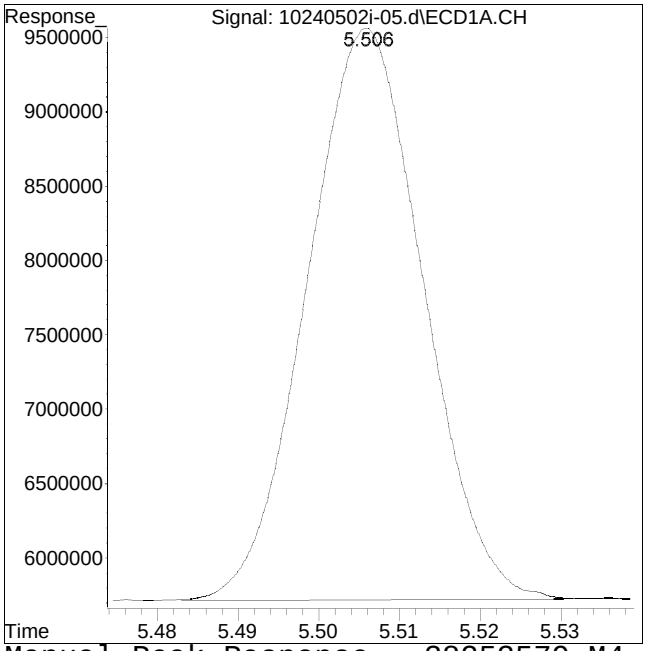
Original Peak Response = 11437858 Manual Peak Response = 11355175 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-05.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 4:31 pm Instrument : Pest 10
Sample : il3pest,42e,,pp 11404 L0.0Quant Date : 5/7/2024 5:37 pm

Compound #26: Endrin Ketone



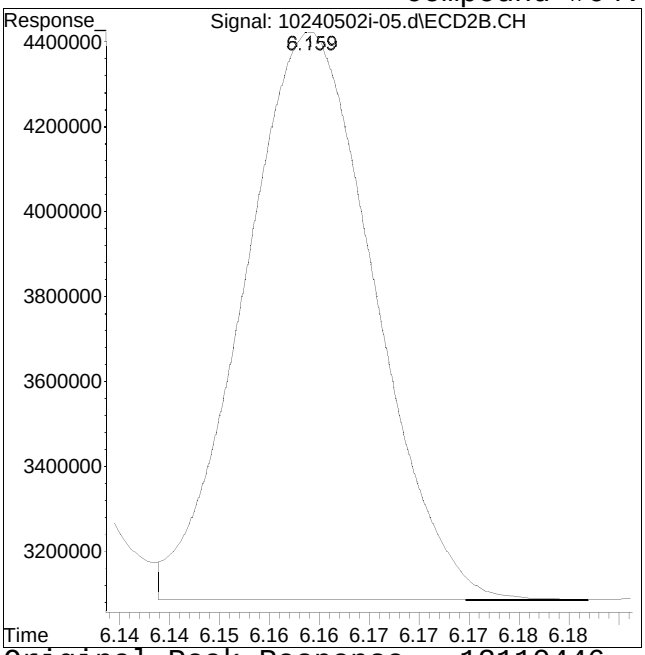


Original Peak Response = 38349175 Manual Peak Response = 38253579 M4
M4 = Poor automated baseline construction.

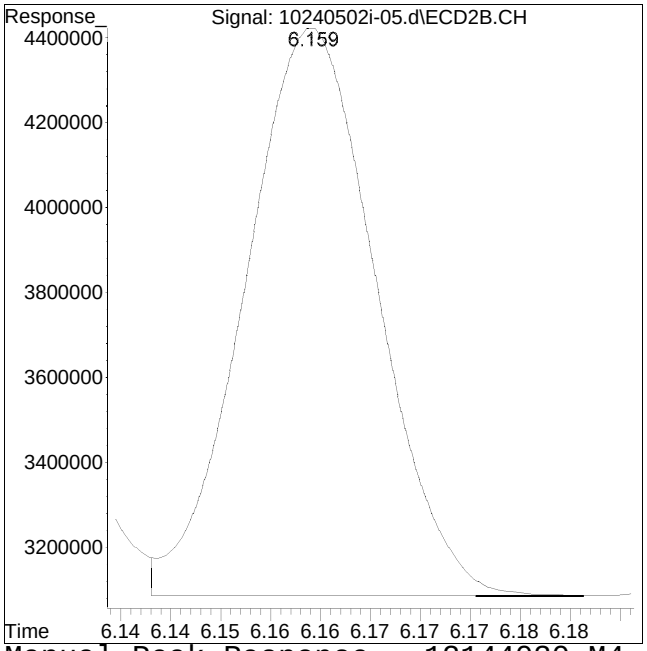
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-05.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 4:31 pm Instrument : Pest 10
Sample : il3pest,42e,,pp 11404 L0.0Quant Date : 5/7/2024 5:37 pm

Compound #64: Endrin Ketone #2



Original Peak Response = 12110446



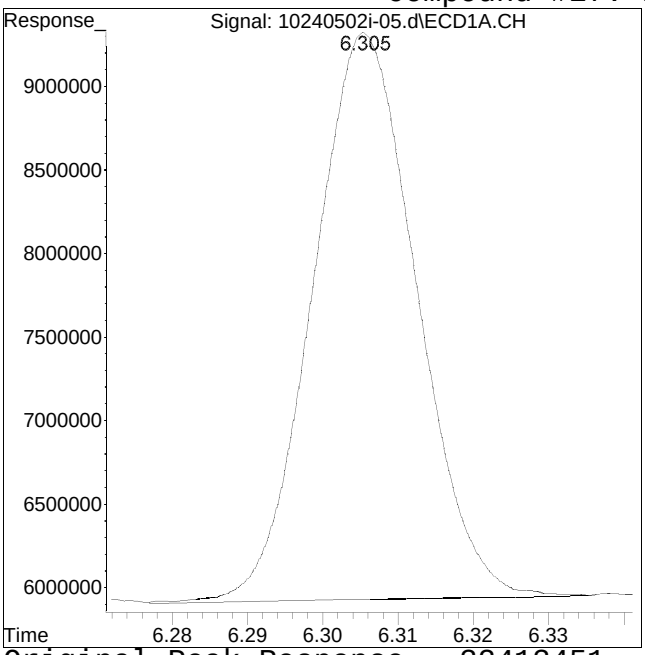
Manual Peak Response = 12144030 M4

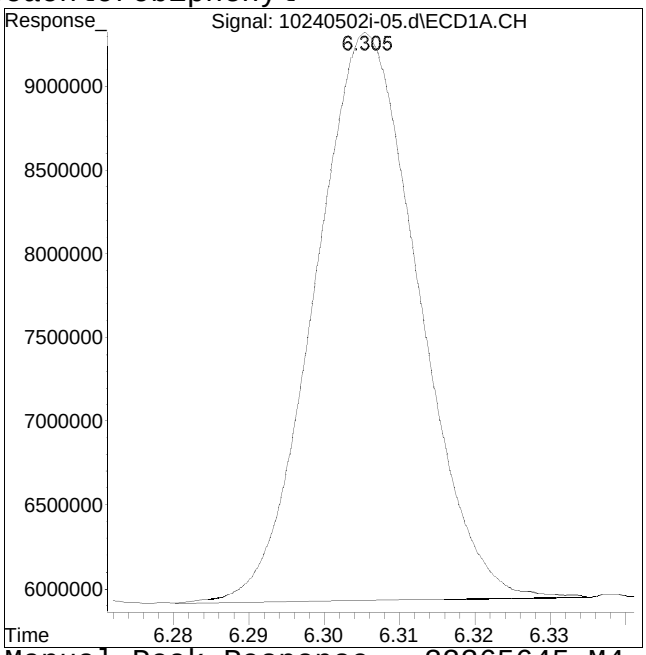
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-05.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 4:31 pm Instrument : Pest 10
Sample : il3pest,42e,,pp 11404 L0.0Quant Date : 5/7/2024 5:37 pm

Compound #27: Decachlorobiphenyl



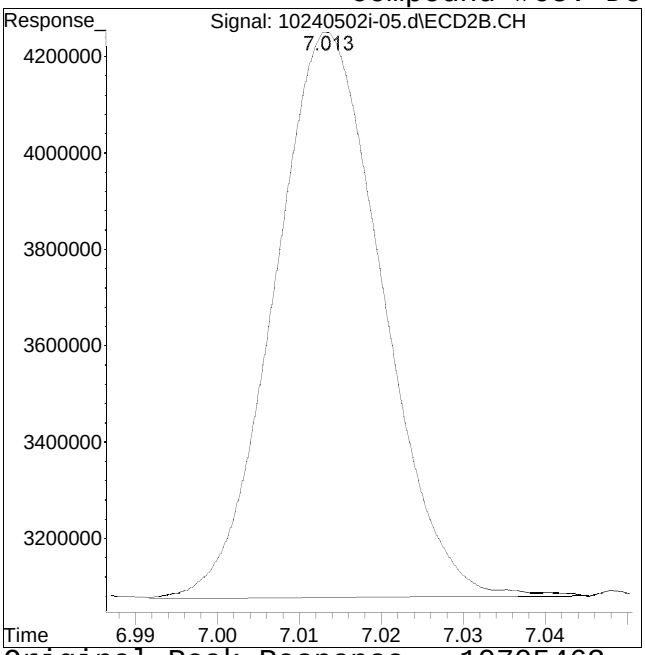


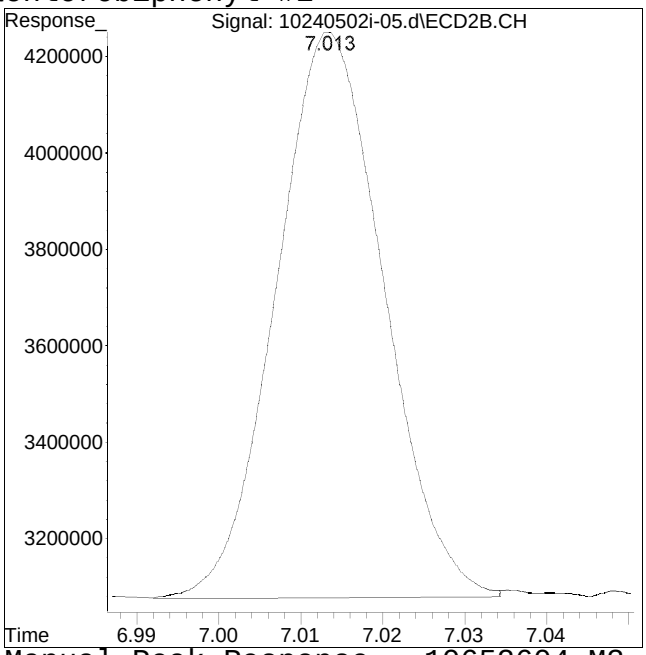
Original Peak Response = 32413451 Manual Peak Response = 32365645 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-05.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 4:31 pm Instrument : Pest 10
Sample : il3pest,42e,,pp 11404 L0.0Quant Date : 5/7/2024 5:37 pm

Compound #65: Decachlorobiphenyl #2





Original Peak Response = 10705463 Manual Peak Response = 10652604 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest10\2024\240502ical\
Data File : 10240502i-06.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 May 2024 4:42 pm
Operator : PEST10:jag
Sample : il4pest,42e,,pp 11403 L0.003
Misc : wg1919460, (Sig #1); ical (Sig #2)
ALS Vial : 6 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 07 17:40:00 2024
Quant Method : I:\PEST\Pest10\2024\240502ical\pest10_2024_05_02_ugL_ical.m
Quant Title : pest
QLast Update : Tue May 07 17:39:24 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	1.317	1.428	377.7E6	139.2E6	25.000M4	25.000M4
28) i	1-br-2-nb_Ch	0.000	0.000	0	0	N.D. d	N.D. d
33) i	1-br-2-nb_To	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	1.662	1.920	52230420	15948507	3.186M3	3.047M3
	Spiked Amount 50.000	Range 30 - 150		Recovery =		6.37%#	6.09%#
27) s	Decachlorobi	6.306	7.013	47103868	15514040	3.354M3	3.350M3
	Spiked Amount 50.000	Range 30 - 150		Recovery =		6.71%#	6.70%#
	Target Compounds						
3) t	Hexachlorobe	1.877	2.251	56407188	18979472	3.220M4	3.155M3
4) t	alpha-BHC	1.976	2.349	66771775	20578818	2.927M3	2.761M4
5) t	gamma-BHC (l	2.179	2.644	64075565	20049959	2.963M3	2.864M3
6) t	beta-BHC	2.235	2.709	31570892	10637090	3.289M4	3.212M4
7) t	delta-BHC	2.364	2.983	62945468	19721612	2.950M4	2.805M4
8) t	Heptachlor	2.526	3.053	65404583	20900546	3.185M4	3.007M4
9) t	Aldrin	2.770	3.381	59518132	18657708	3.073	2.947
10) t D	Alachlor	2.892	3.258	10329932	4268038	2.412M4	3.857M4
11) t D	Chlorpyrifos	2.983	3.620	33863929	12194732	2.225	3.656M4
12) t	Heptachlor E	3.316	4.010	59480755	19388633	3.224M4	3.063M4

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest10\2024\240502ical\
Data File : 10240502i-06.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 May 2024 4:42 pm
Operator : PEST10:jag
Sample : il4pest,42e,,pp 11403 L0.003
Misc : wg1919460, (Sig #1); ical (Sig #2)
ALS Vial : 6 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 07 17:40:00 2024
Quant Method : I:\PEST\Pest10\2024\240502ical\pest10_2024_05_02_ugL_ical.m
Quant Title : pest
QLast Update : Tue May 07 17:39:24 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

		Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
13)	t	gamma-Chlord	3.440	4.233	52967550	17147818	3.138M4	3.045M4
14)	t	alpha-Chlord	3.574	4.398	60378805	19406542	3.149M3	3.064M4
15)	t	4,4'-DDE	3.671	4.587	55884910	17075892	3.078	2.916M4
16)	t	Endosulfan I	3.712	4.459	56904965	18315496	3.227	3.109
17)	t	Dieldrin	3.972	4.743	56642981	17430799	3.124M4	2.957M3
18)	t	Endrin	4.228	5.036	58872446	18006118	3.162	2.977M4
19)	t	4,4'-DDD	4.335	5.151	45846933	13610122	3.106M4	2.888M4
20)	t	Endosulfan I	4.467	5.229	53564047	16786051	3.333M4	3.169M4
21)	t	4,4'-DDT	4.629	5.425	50898361	15872058	3.116	2.970M4
22)	t	Endrin Aldeh	4.886	5.523	35809657	11444622	2.782	2.754M4
23)	t	Methoxychlor	5.115	5.983	31492192	9742437	2.885M4	3.316M4
24)	t	Mirex	5.172	6.127	49569680	16185120	2.993M4	3.473
25)	t	Endosulfan S	5.279	5.749	52105594	16480003	3.269M4	3.121M4
26)	t	Endrin Keton	5.506	6.159	56791924	17932304	3.249	3.117M4
29)	l1	chlordane-1	0.000	0.000	0	0	N.D.	N.D.
30)	l1	chlordane-3	0.000	0.000	0	0	N.D. d	N.D. d
31)	l1	chlordane-4	0.000	0.000	0	0	N.D. d	N.D. d
32)	l1	chlordane-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum	chlordane-1			0	0	N.D.	N.D.

Data Path : I:\PEST\Pest10\2024\240502ical\
Data File : 10240502i-06.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 May 2024 4:42 pm
Operator : PEST10:jag
Sample : il4pest,42e,,pp 11403 L0.003
Misc : wg1919460, (Sig #1); ical (Sig #2)
ALS Vial : 6 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 07 17:40:00 2024
Quant Method : I:\PEST\Pest10\2024\240502ical\pest10_2024_05_02_ugL_ical.m
Quant Title : pest
QLast Update : Tue May 07 17:39:24 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Average	chlordane-1					0.000	0.000
34) l2	toxaphene-1	0.000	0.000	0	0	N.D. d	N.D. d
35) l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
36) l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
37) l2	toxaphene-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

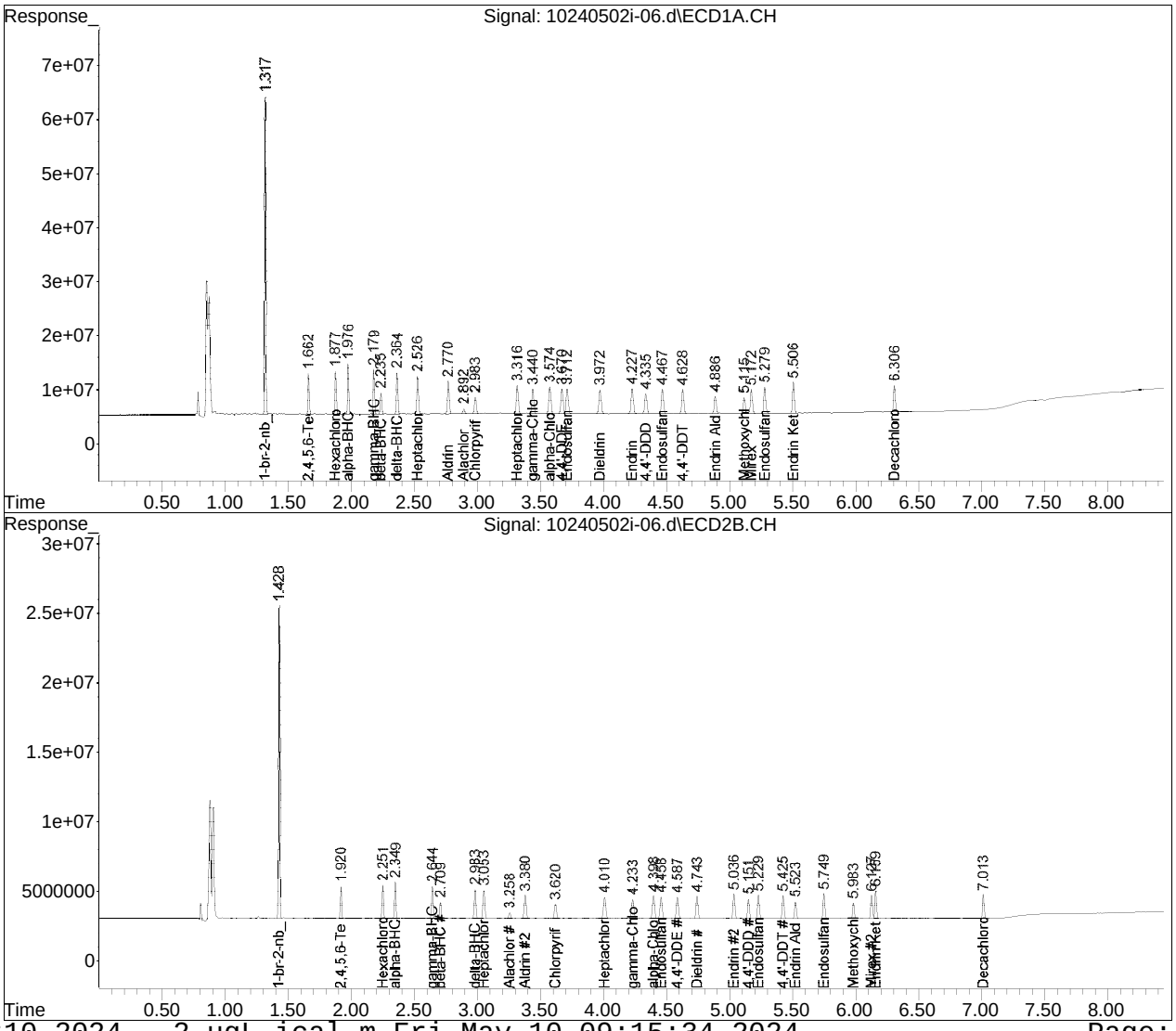
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest10\2024\240502ical\
Data File : 10240502i-06.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 May 2024 4:42 pm
Operator : PEST10:jag
Sample : il4pest,42e,,pp 11403 L0.003
Misc : wg1919460, (Sig #1); ical (Sig #2)
ALS Vial : 6 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 07 17:40:00 2024
Quant Method : I:\PEST\Pest10\2024\240502ical\pest10_2024_05_02_ugL_ical.m
Quant Title : pest
QLast Update : Tue May 07 17:39:24 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

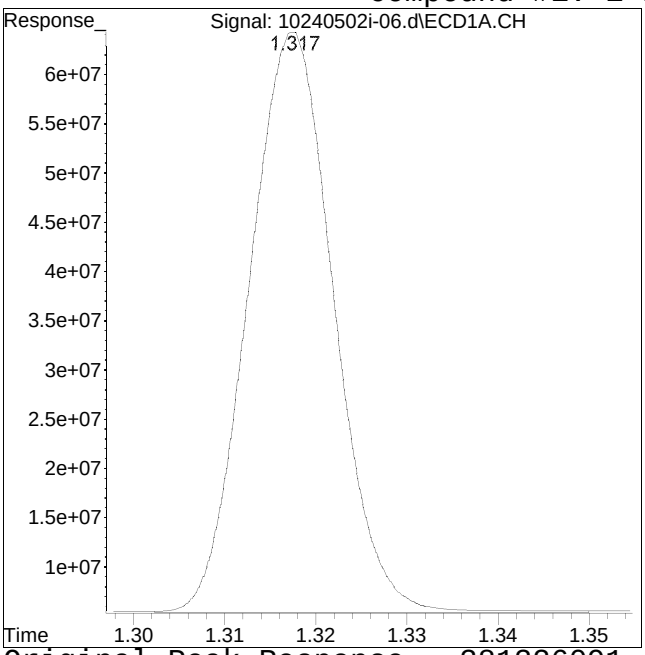
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

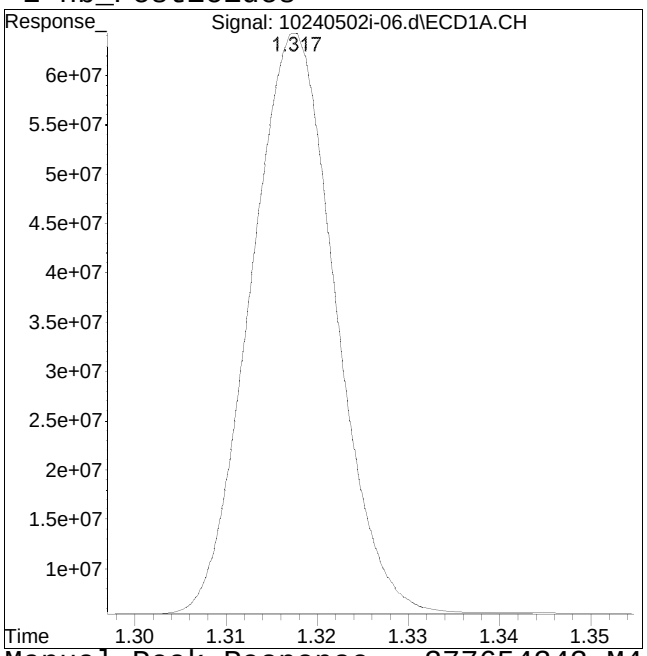


Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-06.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 4:42 pm Instrument : Pest 10
Sample : il4pest,42e,,pp 11403 L0.0Quant Date : 5/7/2024 5:40 pm

Compound #1: 1-br-2-nb_Pesticides



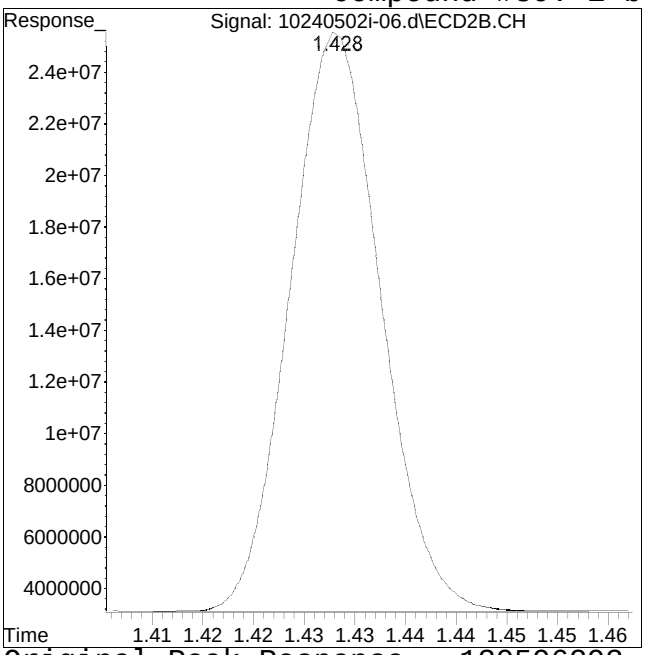


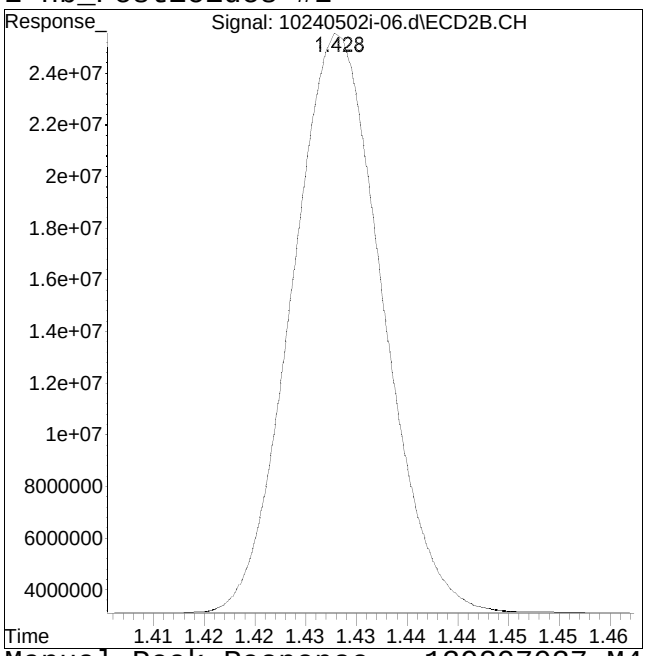
Original Peak Response = 381326091 Manual Peak Response = 377654343 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-06.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 4:42 pm Instrument : Pest 10
Sample : il4pest,42e,,pp 11403 L0.0Quant Date : 5/7/2024 5:40 pm

Compound #39: 1-br-2-nb_Pesticides #2



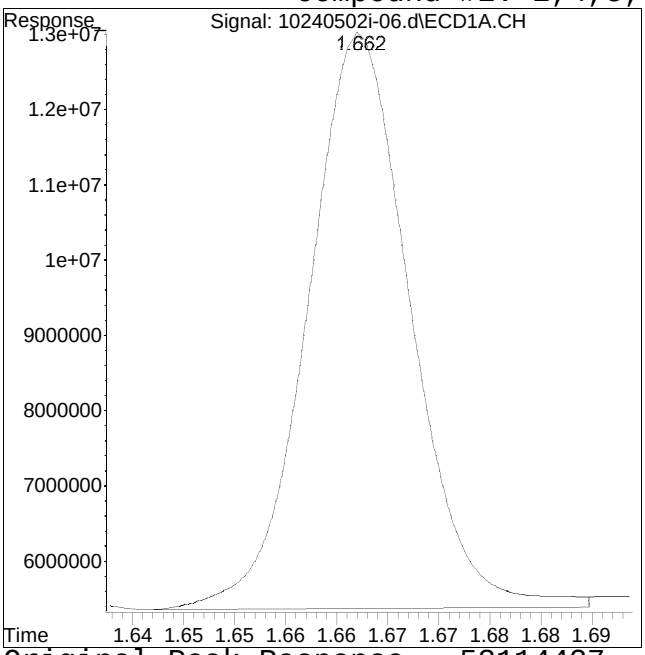


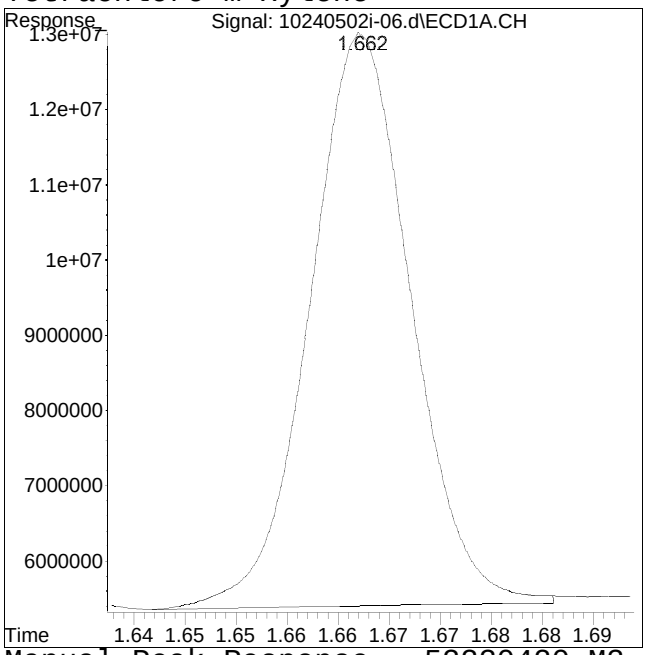
Original Peak Response = 139596293 Manual Peak Response = 139207037 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-06.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 4:42 pm Instrument : Pest 10
Sample : il4pest,42e,,pp 11403 L0.0Quant Date : 5/7/2024 5:40 pm

Compound #2: 2,4,5,6-Tetrachloro-m-xylene



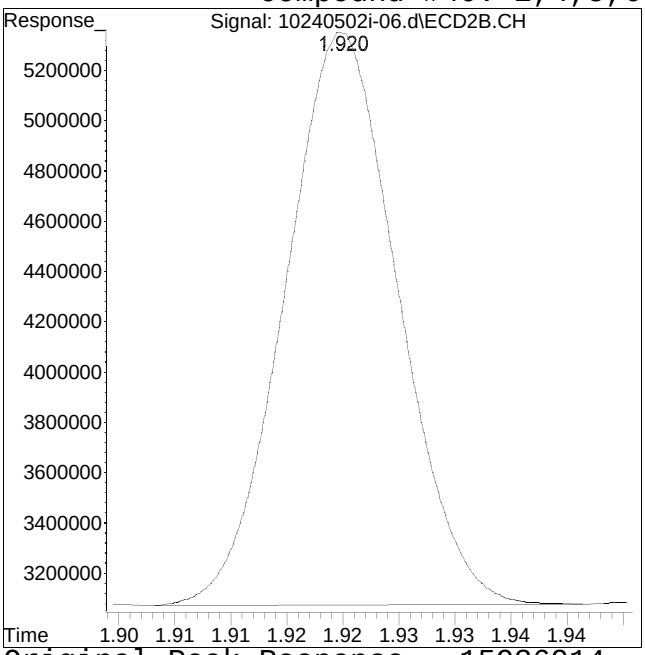


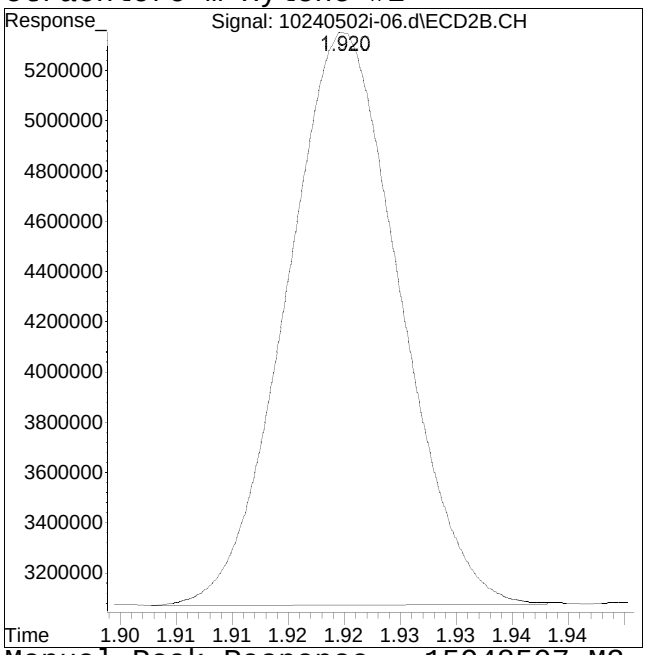
Original Peak Response = 53114427 Manual Peak Response = 52230420 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-06.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 4:42 pm Instrument : Pest 10
Sample : il4pest,42e,,pp 11403 L0.0Quant Date : 5/7/2024 5:40 pm

Compound #40: 2,4,5,6-Tetrachloro-m-xylene #2



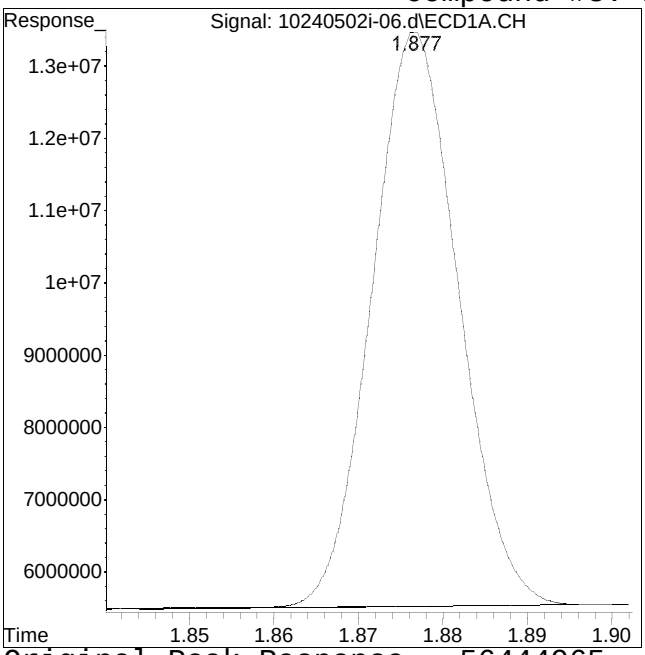


Original Peak Response = 15936914 Manual Peak Response = 15948507 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

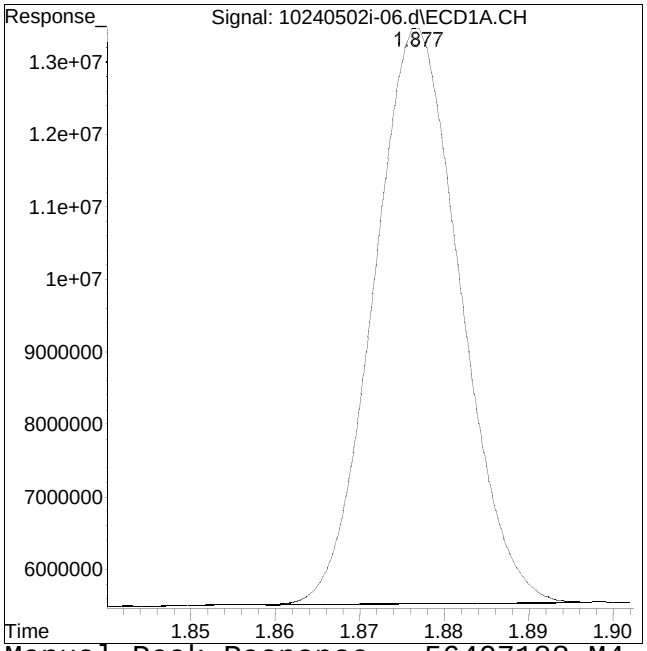
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-06.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 4:42 pm Instrument : Pest 10
Sample : il4pest,42e,,pp 11403 L0.0Quant Date : 5/7/2024 5:40 pm

Compound #3: Hexachlorobenzene



Original Peak Response = 56444965



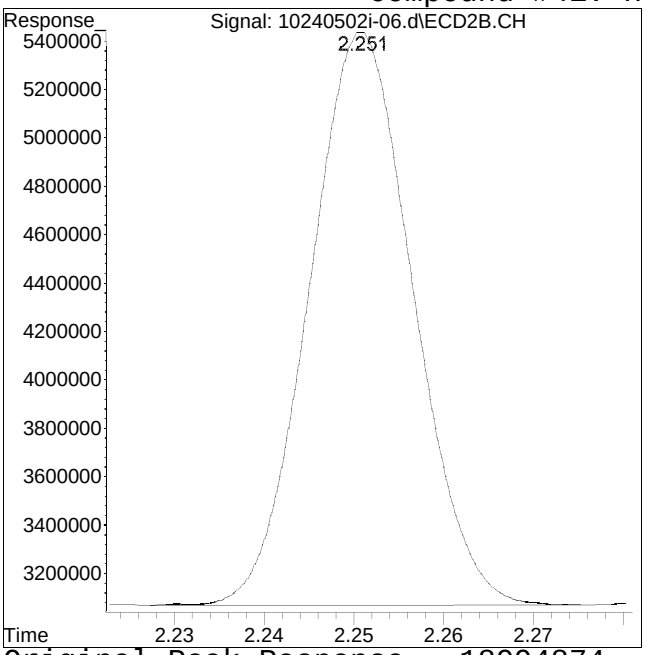
Manual Peak Response = 56407188 M4

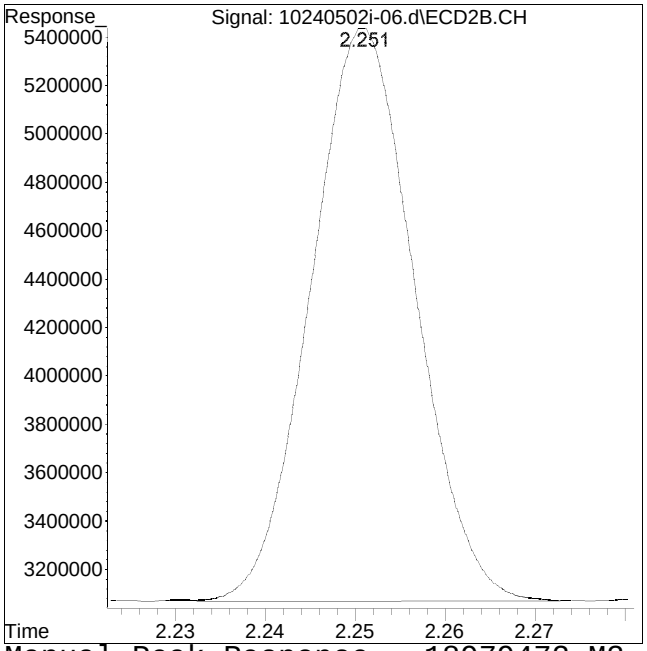
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-06.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 4:42 pm Instrument : Pest 10
Sample : il4pest,42e,,pp 11403 L0.0Quant Date : 5/7/2024 5:40 pm

Compound #41: Hexachlorobenzene #2



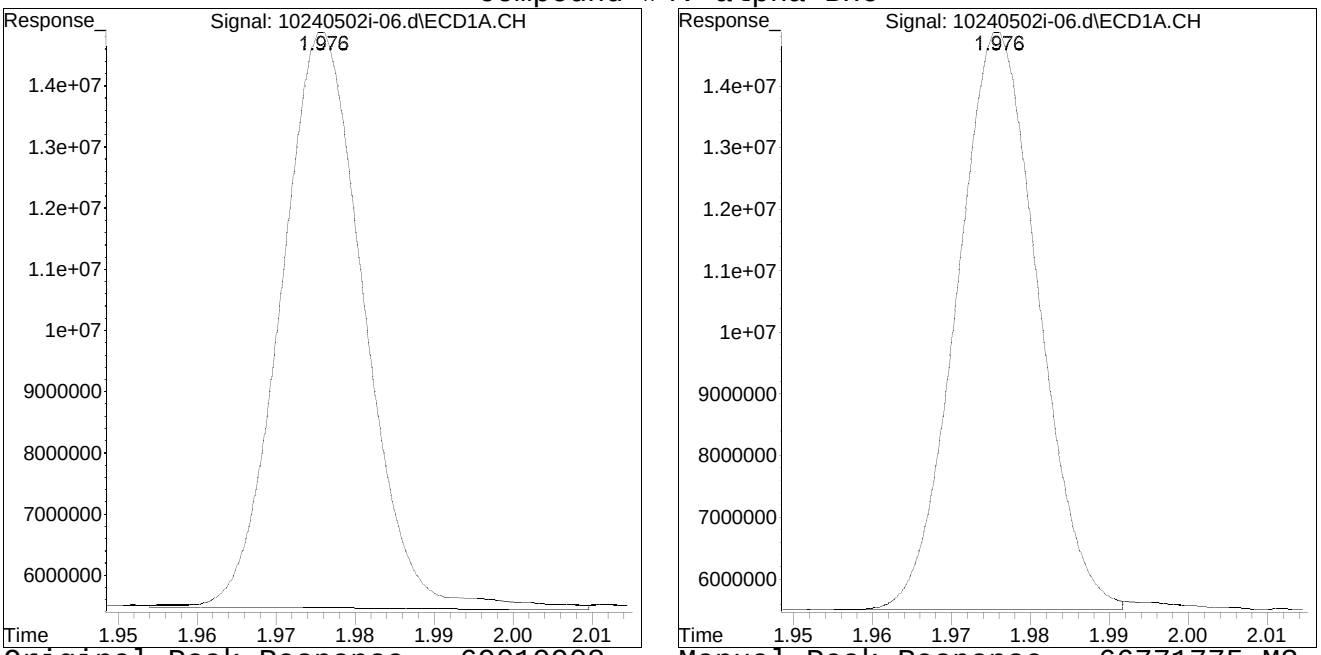


Original Peak Response = 18994874 Manual Peak Response = 18979472 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-06.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 4:42 pm Instrument : Pest 10
Sample : il4pest,42e,,pp 11403 L0.0Quant Date : 5/7/2024 5:40 pm

Compound #4: alpha-BHC

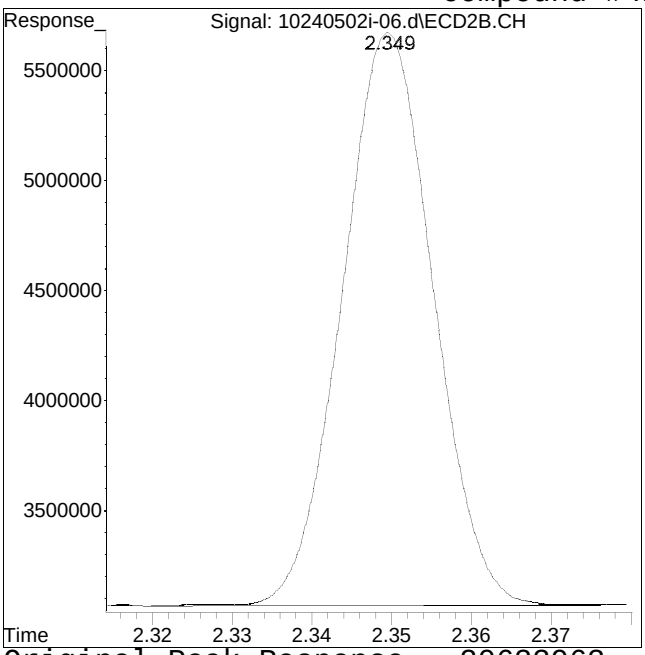


Original Peak Response = 69010908 Manual Peak Response = 66771775 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

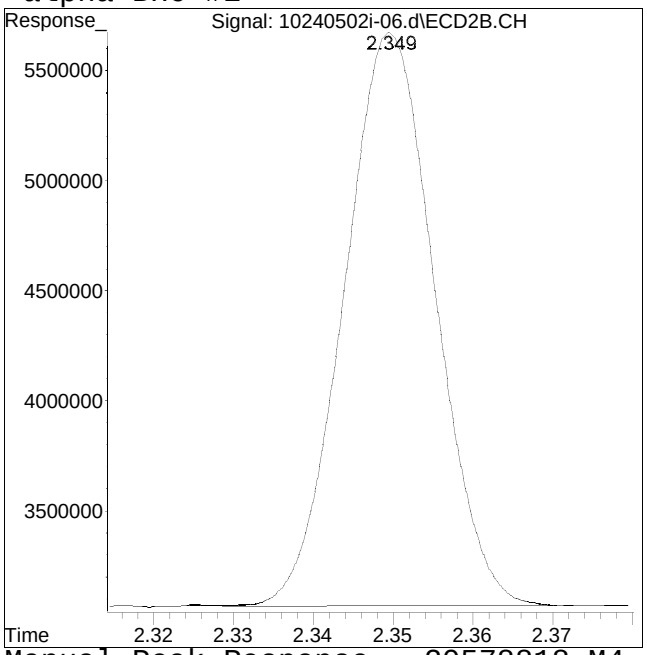
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-06.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 4:42 pm Instrument : Pest 10
Sample : il4pest,42e,,pp 11403 L0.0Quant Date : 5/7/2024 5:40 pm

Compound #42: alpha-BHC #2



Original Peak Response = 20633963

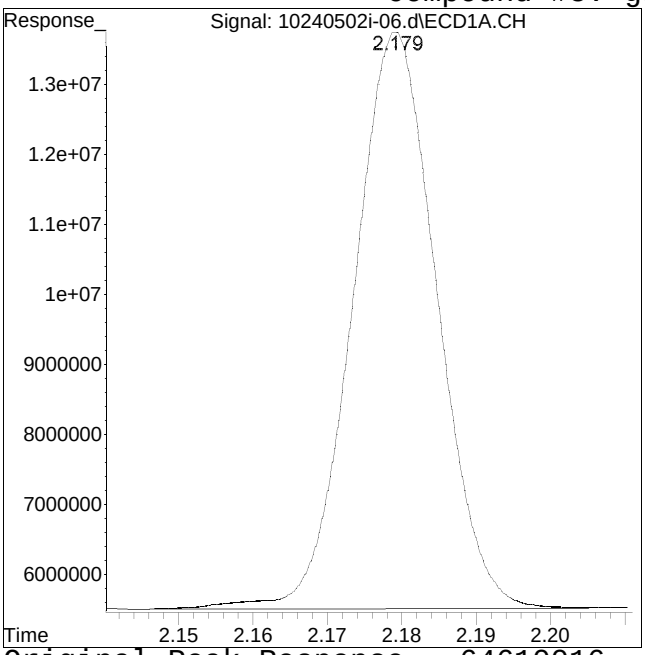


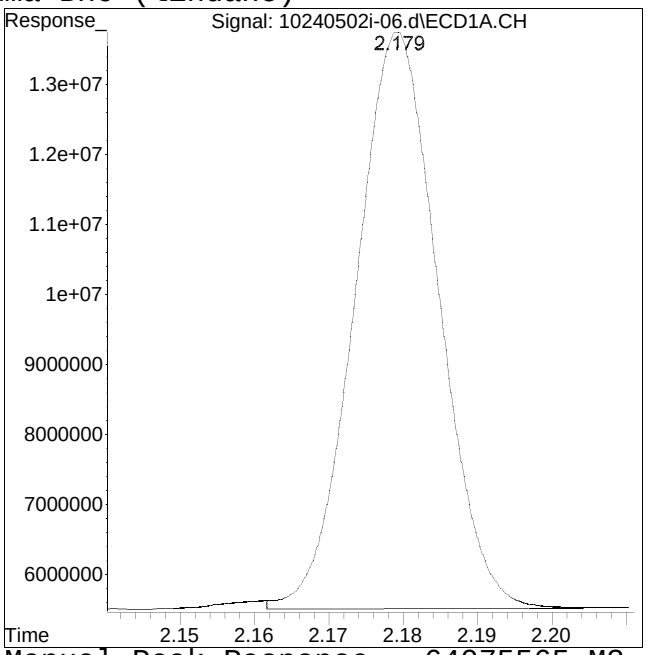
Manual Peak Response = 20578818 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-06.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 4:42 pm Instrument : Pest 10
Sample : il4pest,42e,,pp 11403 L0.0Quant Date : 5/7/2024 5:40 pm

Compound #5: gamma-BHC (lindane)



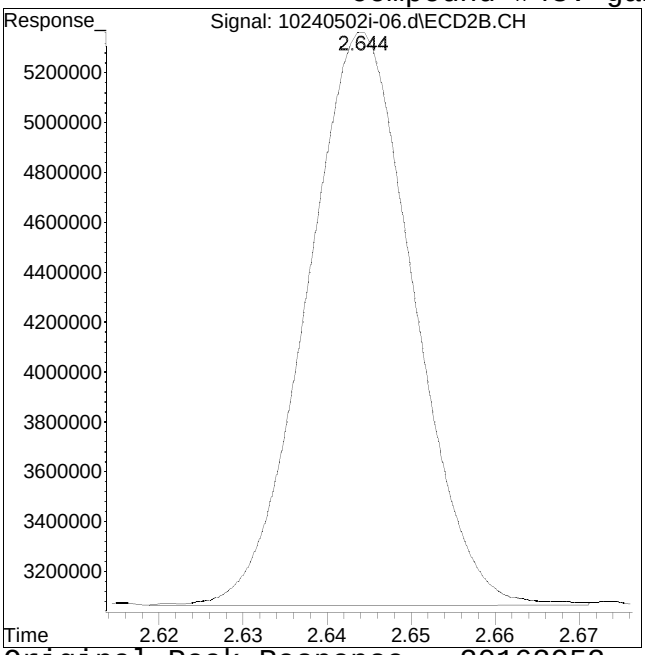


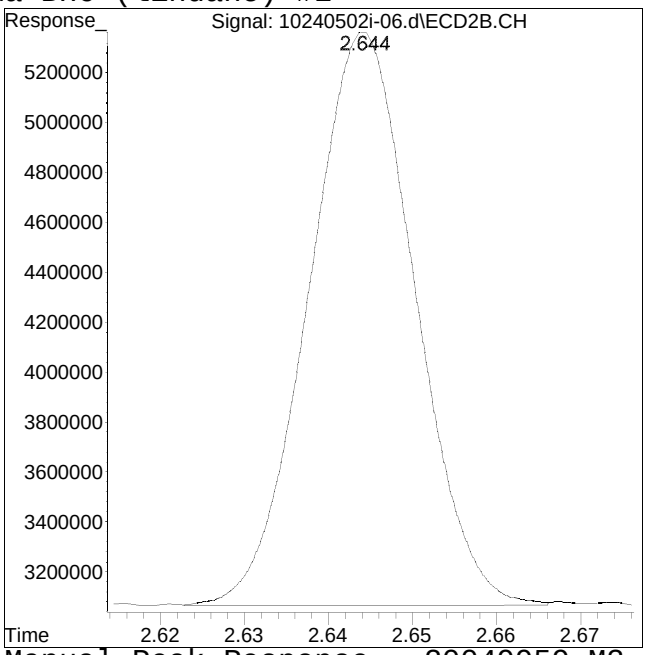
Original Peak Response = 64610016 Manual Peak Response = 64075565 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-06.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 4:42 pm Instrument : Pest 10
Sample : il4pest,42e,,pp 11403 L0.0Quant Date : 5/7/2024 5:40 pm

Compound #43: gamma-BHC (lindane) #2



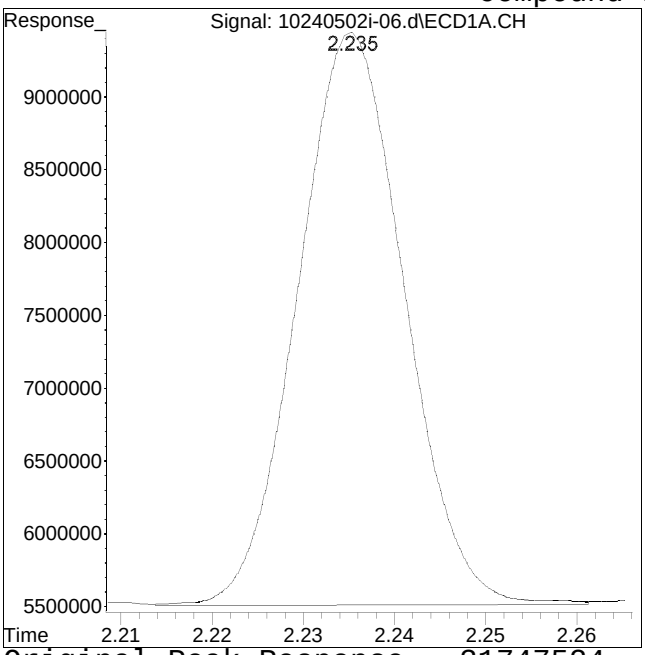


Original Peak Response = 20162952 Manual Peak Response = 20049959 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

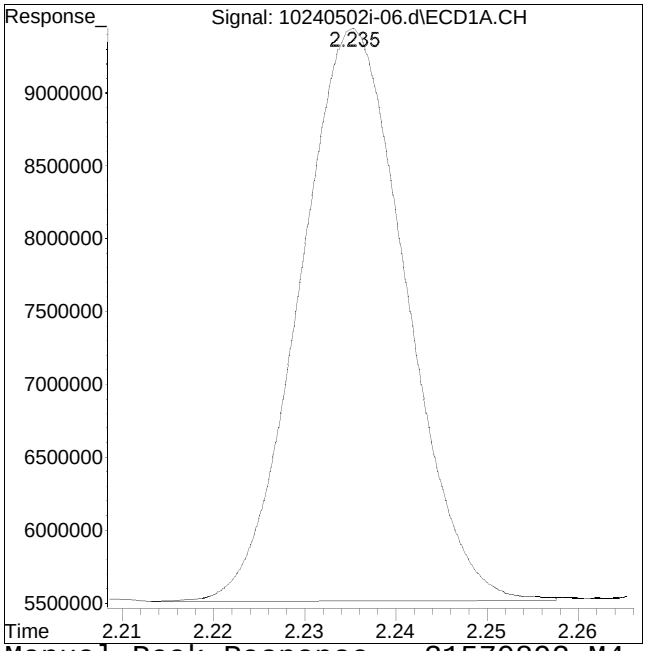
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-06.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 4:42 pm Instrument : Pest 10
Sample : il4pest,42e,,pp 11403 L0.0Quant Date : 5/7/2024 5:40 pm

Compound #6: beta-BHC



Original Peak Response = 31747524



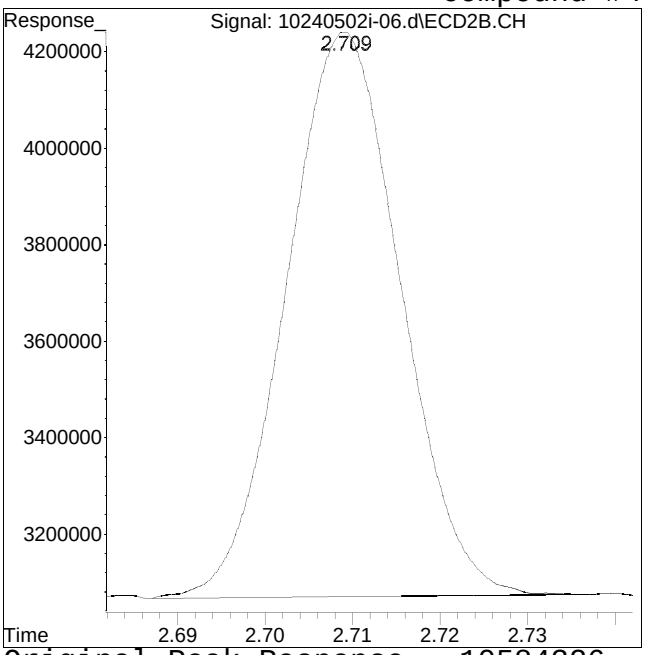
Manual Peak Response = 31570892 M4

M4 = Poor automated baseline construction.

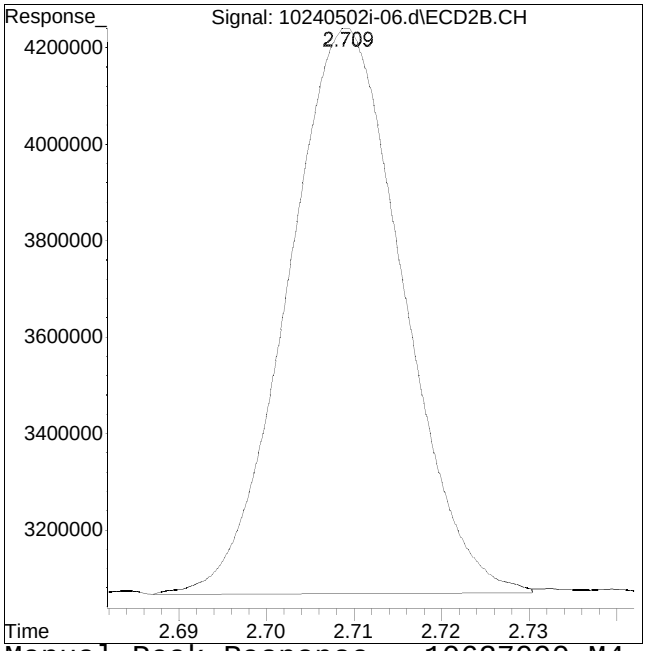
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-06.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 4:42 pm Instrument : Pest 10
Sample : il4pest,42e,,pp 11403 L0.0Quant Date : 5/7/2024 5:40 pm

Compound #44: beta-BHC #2



Original Peak Response = 10584326



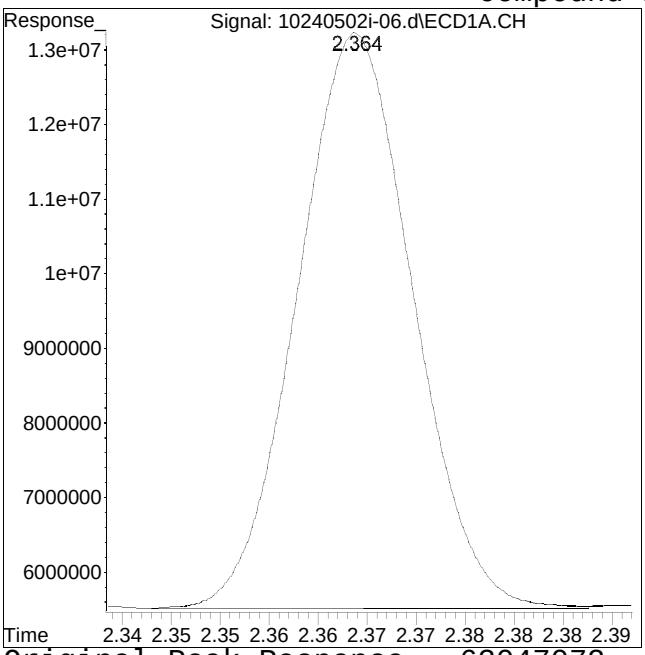
Manual Peak Response = 10637090 M4

M4 = Poor automated baseline construction.

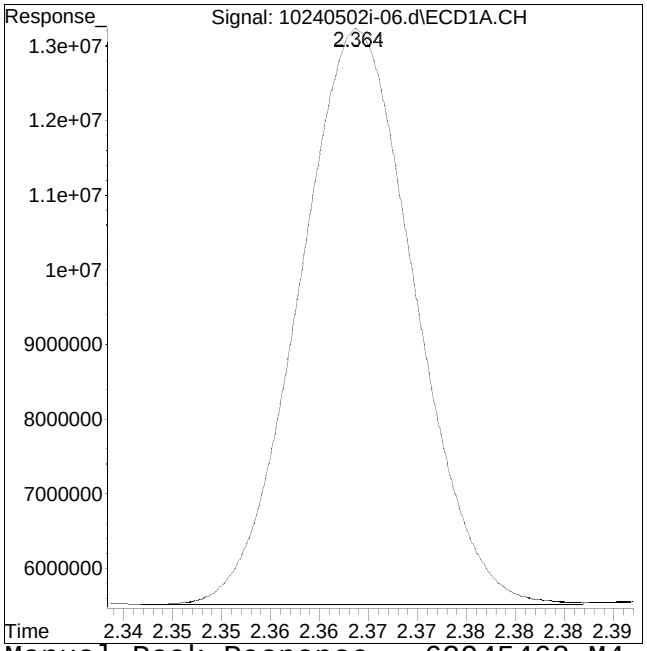
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-06.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 4:42 pm Instrument : Pest 10
Sample : il4pest,42e,,pp 11403 L0.0Quant Date : 5/7/2024 5:40 pm

Compound #7: delta-BHC



Original Peak Response = 63047072



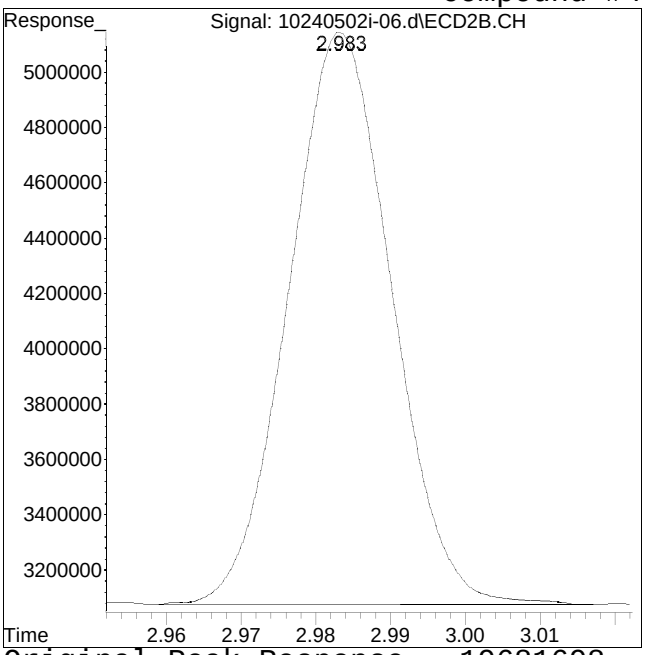
Manual Peak Response = 62945468 M4

M4 = Poor automated baseline construction.

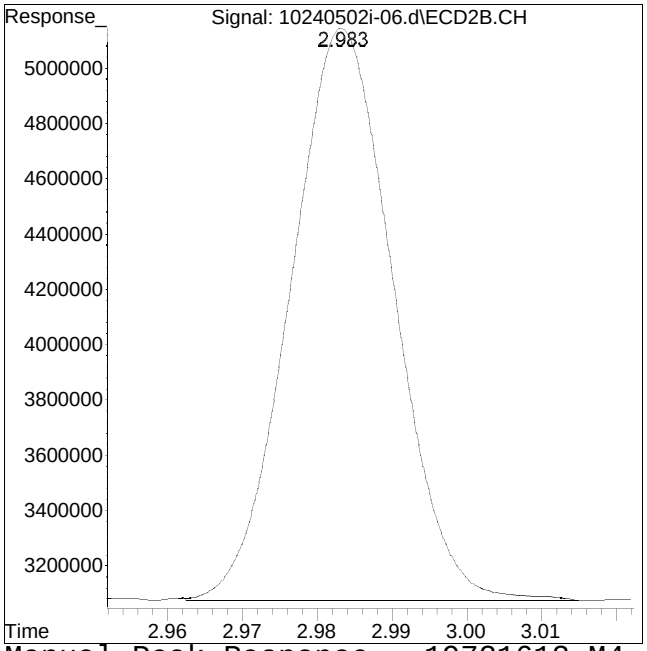
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-06.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 4:42 pm Instrument : Pest 10
Sample : il4pest,42e,,pp 11403 L0.0Quant Date : 5/7/2024 5:40 pm

Compound #45: delta-BHC #2



Original Peak Response = 19681698



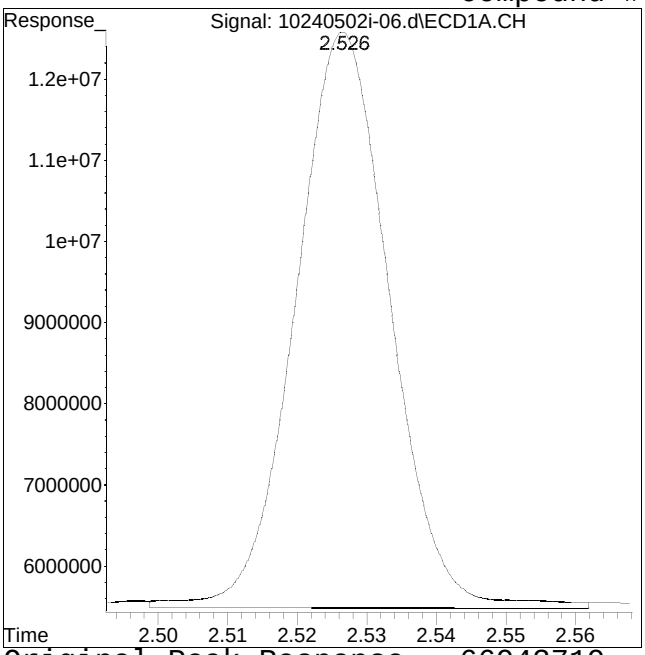
Manual Peak Response = 19721612 M4

M4 = Poor automated baseline construction.

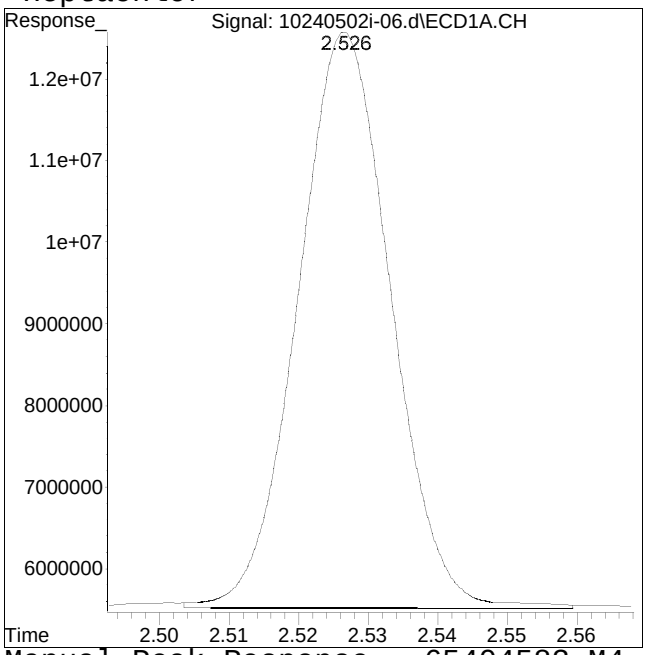
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-06.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 4:42 pm Instrument : Pest 10
Sample : il4pest,42e,,pp 11403 L0.0Quant Date : 5/7/2024 5:40 pm

Compound #8: Heptachlor



Original Peak Response = 66943719



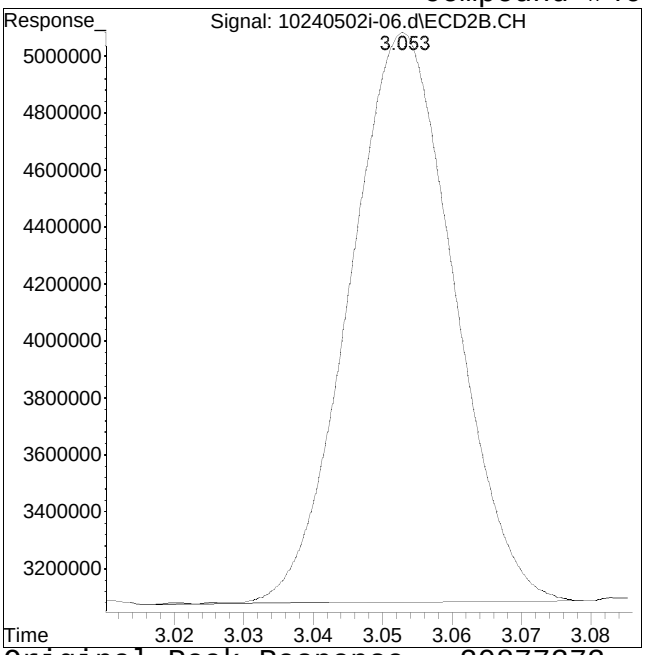
Manual Peak Response = 65404583 M4

M4 = Poor automated baseline construction.

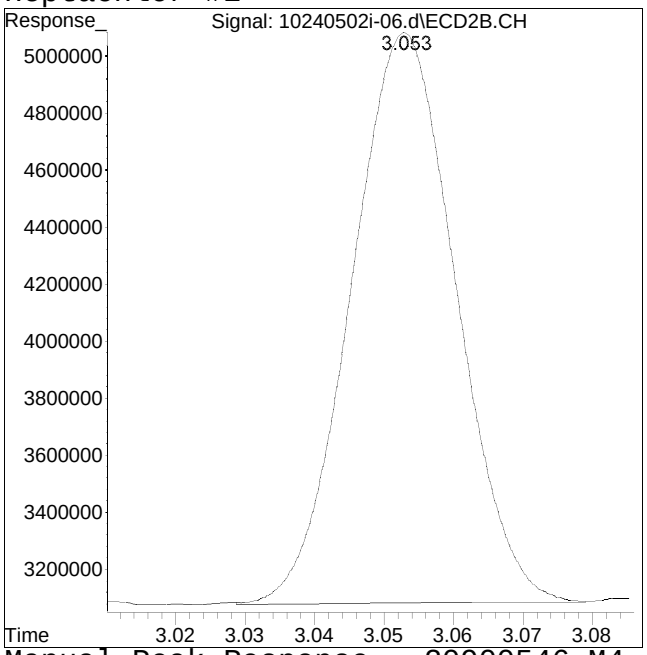
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-06.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 4:42 pm Instrument : Pest 10
Sample : il4pest,42e,,pp 11403 L0.0Quant Date : 5/7/2024 5:40 pm

Compound #46: Heptachlor #2



Original Peak Response = 20877373

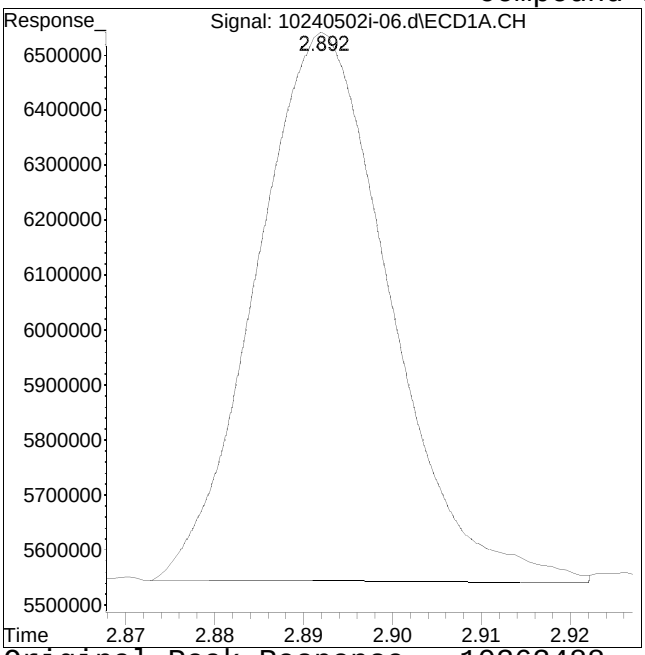


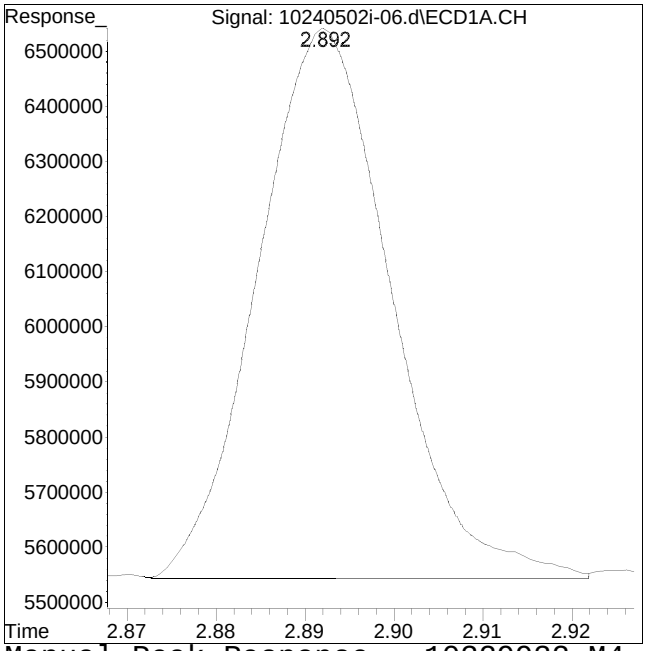
Manual Peak Response = 20900546 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-06.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 4:42 pm Instrument : Pest 10
Sample : il4pest,42e,,pp 11403 L0.0Quant Date : 5/7/2024 5:40 pm

Compound #10: Alachlor



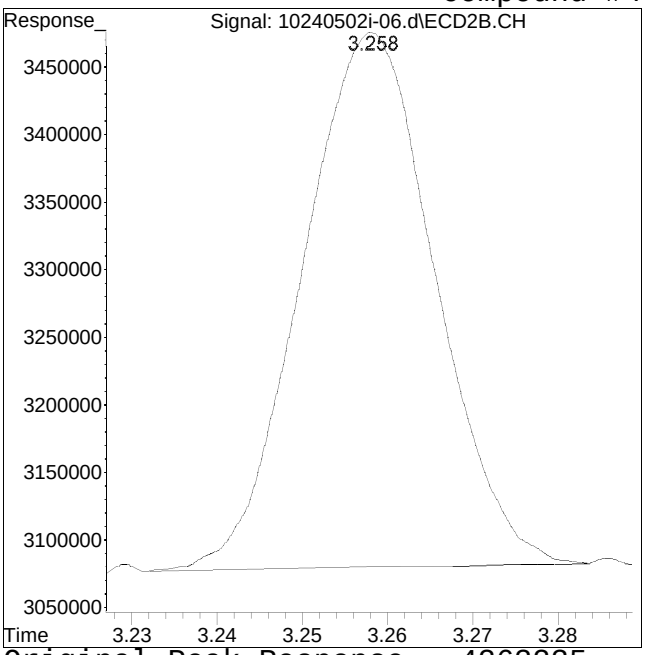


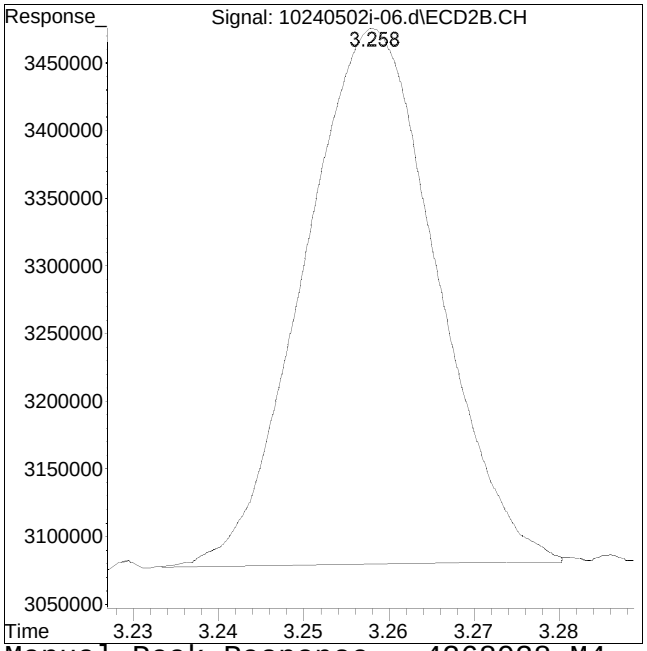
Original Peak Response = 10363488 Manual Peak Response = 10329932 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-06.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 4:42 pm Instrument : Pest 10
Sample : il4pest,42e,,pp 11403 L0.0Quant Date : 5/7/2024 5:40 pm

Compound #48: Alachlor #2



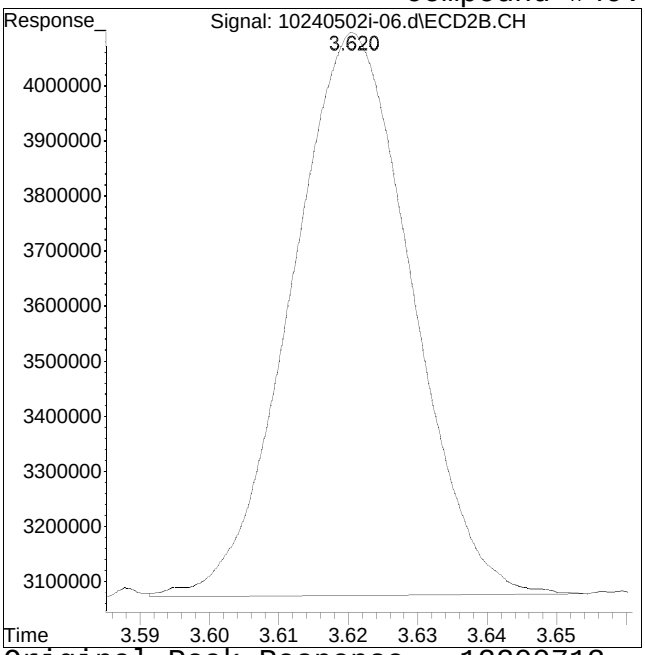


Original Peak Response = 4263235 Manual Peak Response = 4268038 M4
M4 = Poor automated baseline construction.

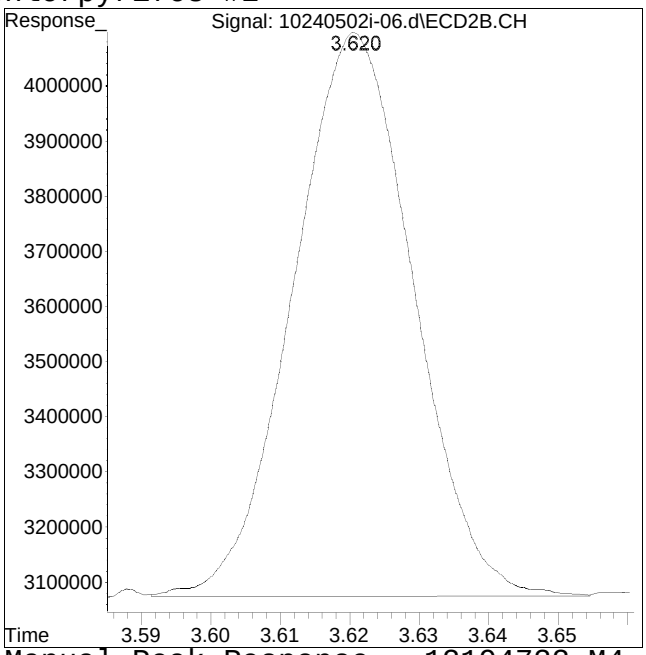
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-06.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 4:42 pm Instrument : Pest 10
Sample : il4pest,42e,,pp 11403 L0.0Quant Date : 5/7/2024 5:40 pm

Compound #49: Chlorpyrifos #2



Original Peak Response = 12200713



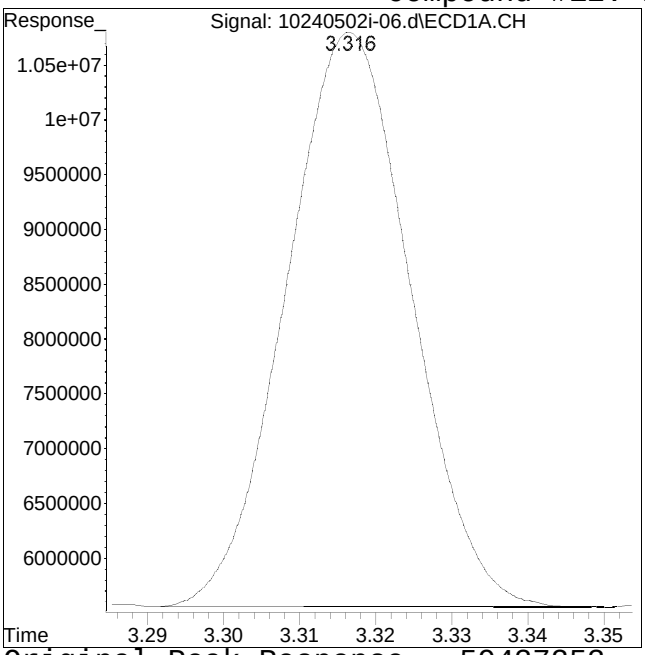
Manual Peak Response = 12194732 M4

M4 = Poor automated baseline construction.

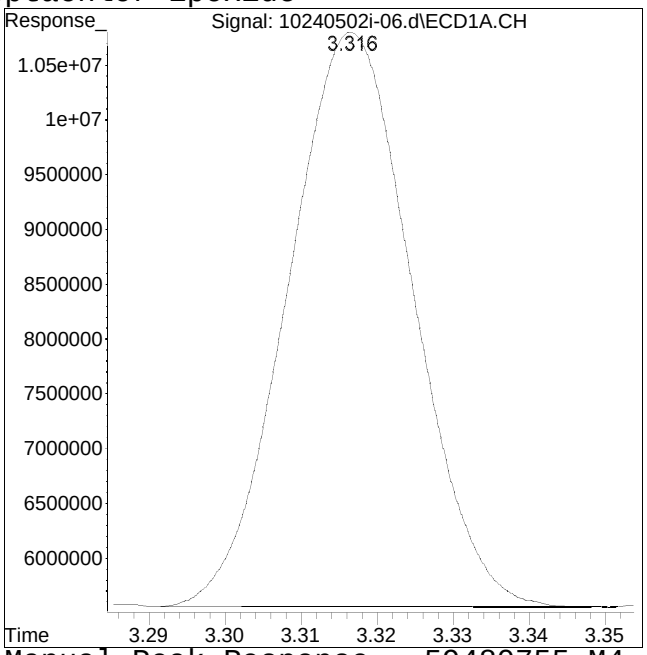
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-06.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 4:42 pm Instrument : Pest 10
Sample : il4pest,42e,,pp 11403 L0.0Quant Date : 5/7/2024 5:40 pm

Compound #12: Heptachlor Epoxide



Original Peak Response = 59437253



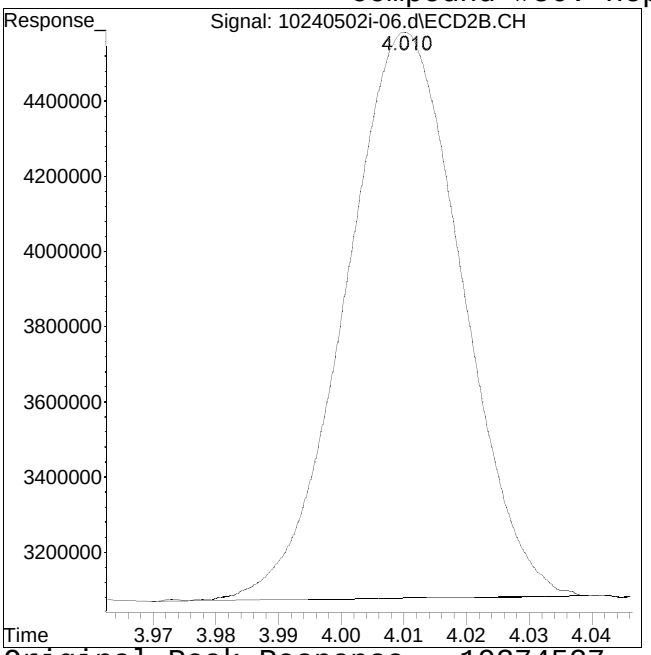
Manual Peak Response = 59480755 M4

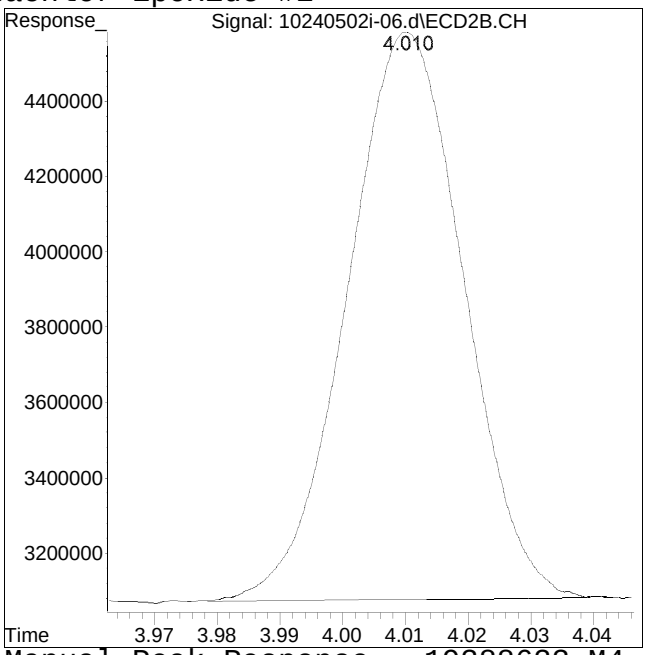
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-06.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 4:42 pm Instrument : Pest 10
Sample : il4pest,42e,,pp 11403 L0.0Quant Date : 5/7/2024 5:40 pm

Compound #50: Heptachlor Epoxide #2





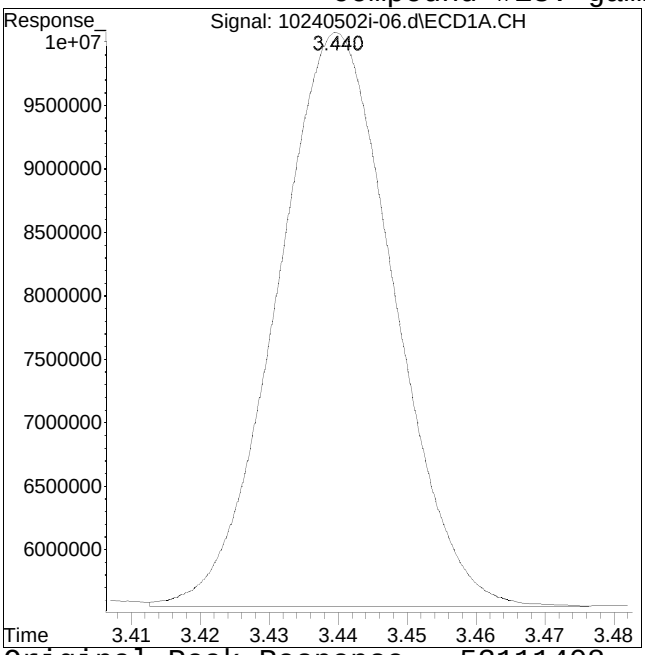
Original Peak Response = 19374527 Manual Peak Response = 19388633 M4
M4 = Poor automated baseline construction.

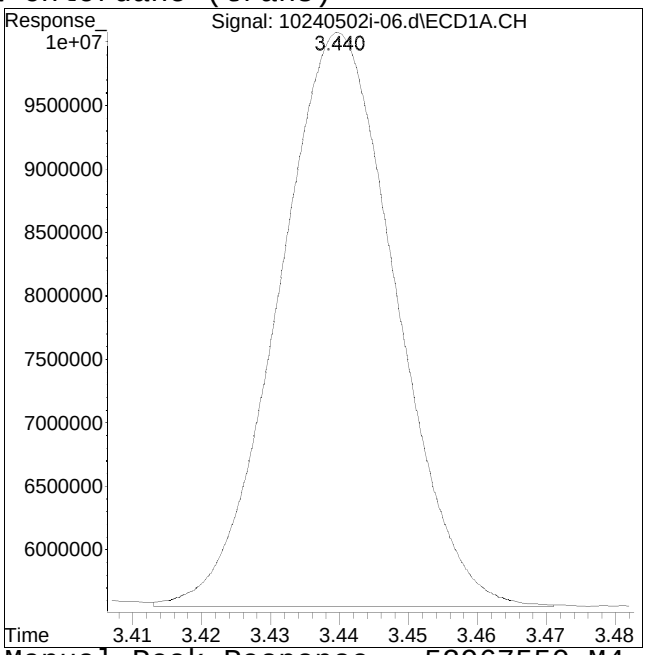
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502Q
Data File : 10240502i-06.d
Date Inj'd : 5/2/2024 4:42 pm
Sample : il4pest,42e,,pp 11403 L0.0

Method : pest10_2024_05_02_ugL_ic
Operator : PEST10:jag
Instrument : Pest 10
Quant Date : 5/7/2024 5:40 pm

Compound #13: gamma-Chlordane (trans)



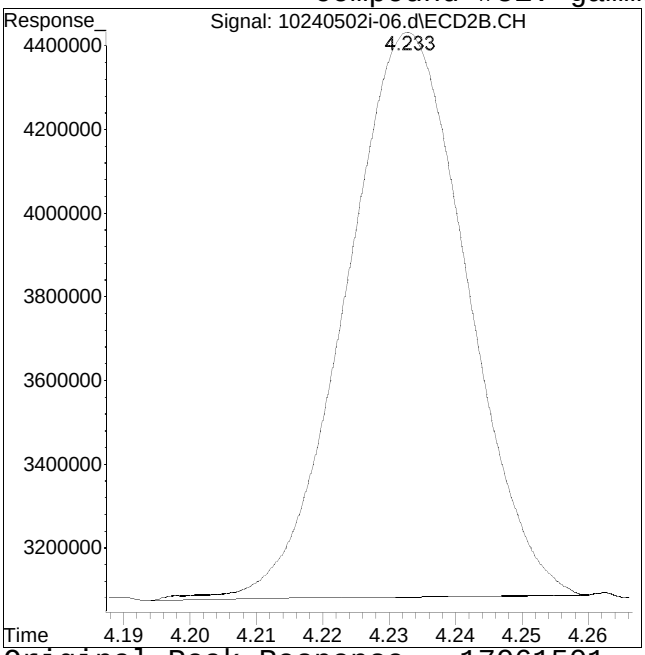


Original Peak Response = 53111408 Manual Peak Response = 52967550 M4
M4 = Poor automated baseline construction.

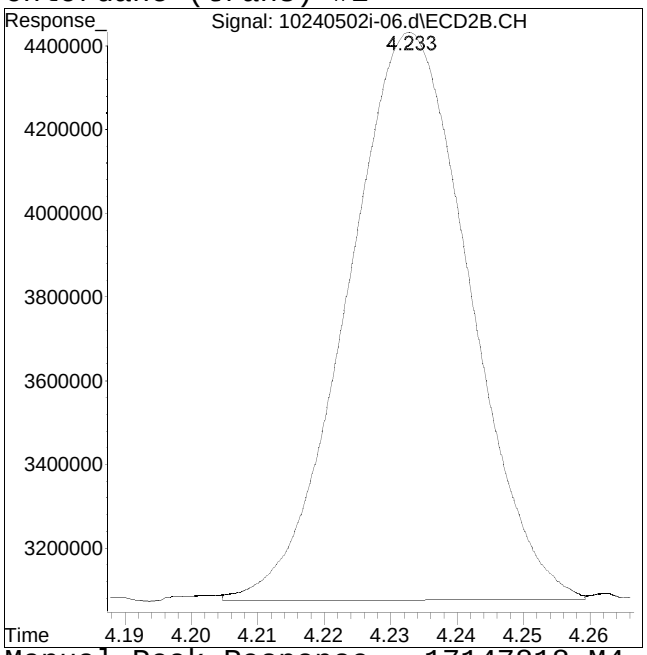
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-06.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 4:42 pm Instrument : Pest 10
Sample : il4pest,42e,,pp 11403 L0.0Quant Date : 5/7/2024 5:40 pm

Compound #51: gamma-Chlordane (trans) #2



Original Peak Response = 17061501



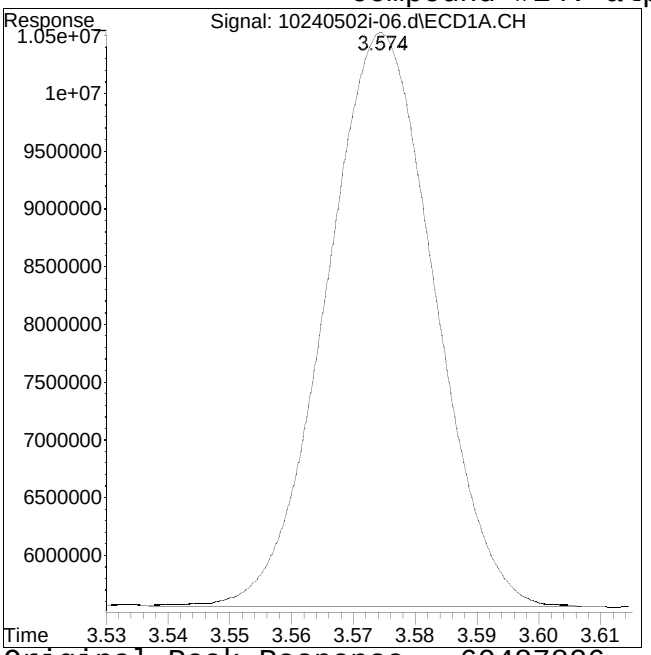
Manual Peak Response = 17147818 M4

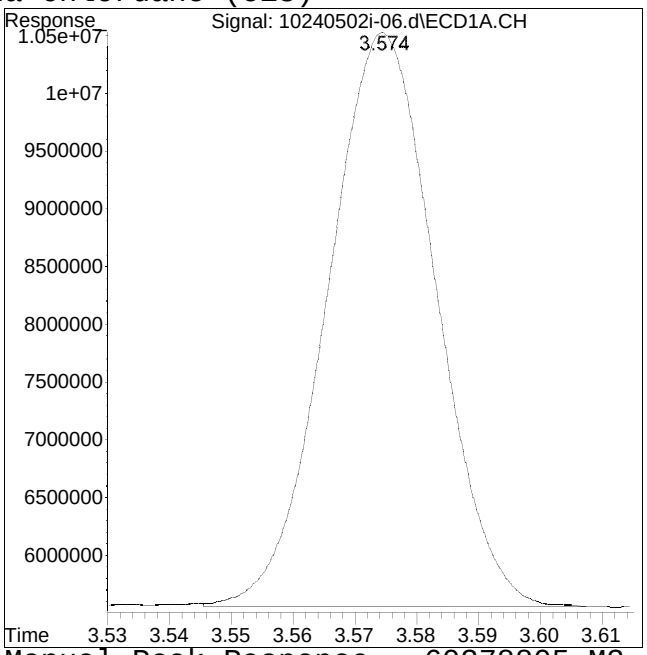
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-06.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 4:42 pm Instrument : Pest 10
Sample : il4pest,42e,,pp 11403 L0.0Quant Date : 5/7/2024 5:40 pm

Compound #14: alpha-Chlordane (cis)





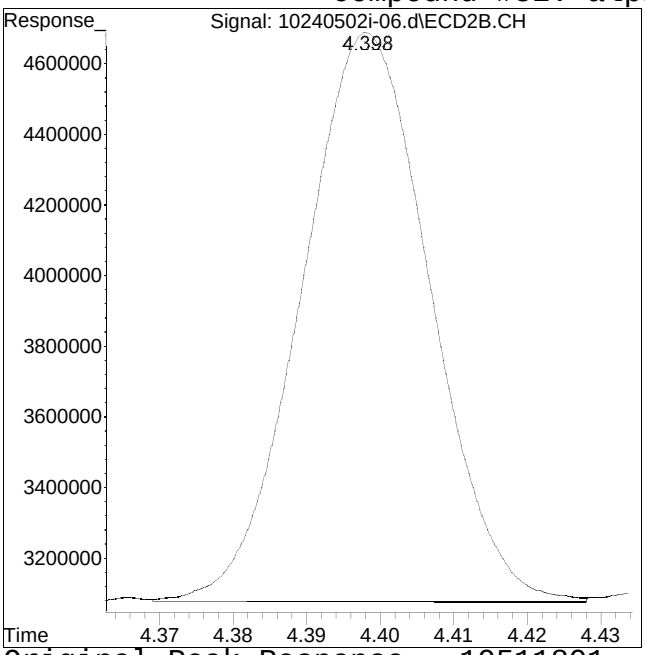
Original Peak Response = 60487826 Manual Peak Response = 60378805 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

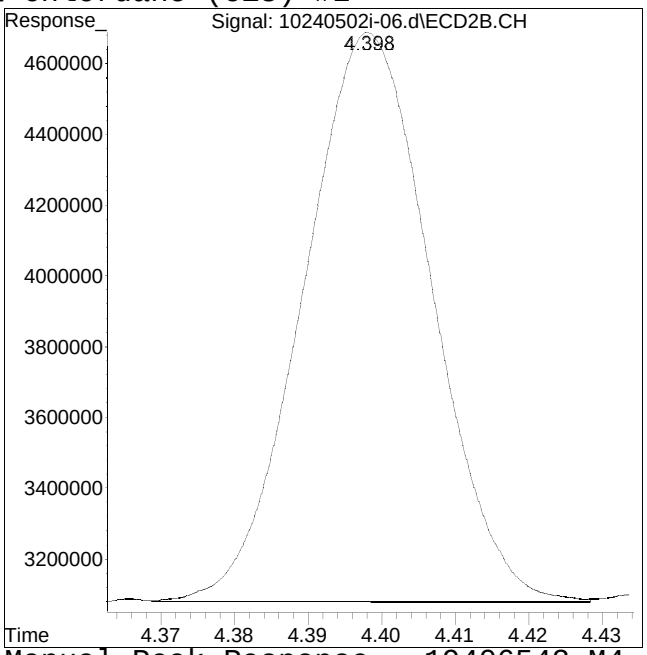
Data Path : I:\PEST\Pest10\2024\240502Q
Data File : 10240502i-06.d
Date Inj'd : 5/2/2024 4:42 pm
Sample : il4pest,42e,,pp 11403 L0.0

Method : pest10_2024_05_02_ugL_ic
Operator : PEST10:jag
Instrument : Pest 10
Quant Date : 5/7/2024 5:40 pm

Compound #52: alpha-Chlordane (cis) #2



Original Peak Response = 19511891



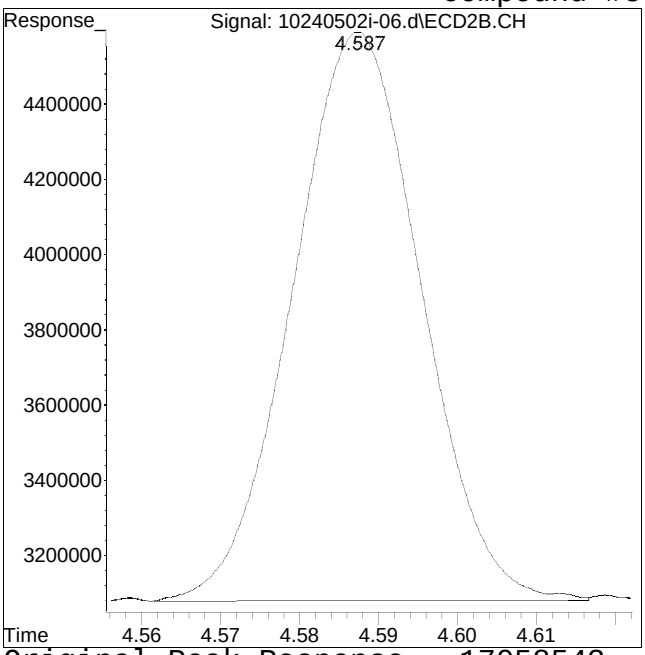
Manual Peak Response = 19406542 M4

M4 = Poor automated baseline construction.

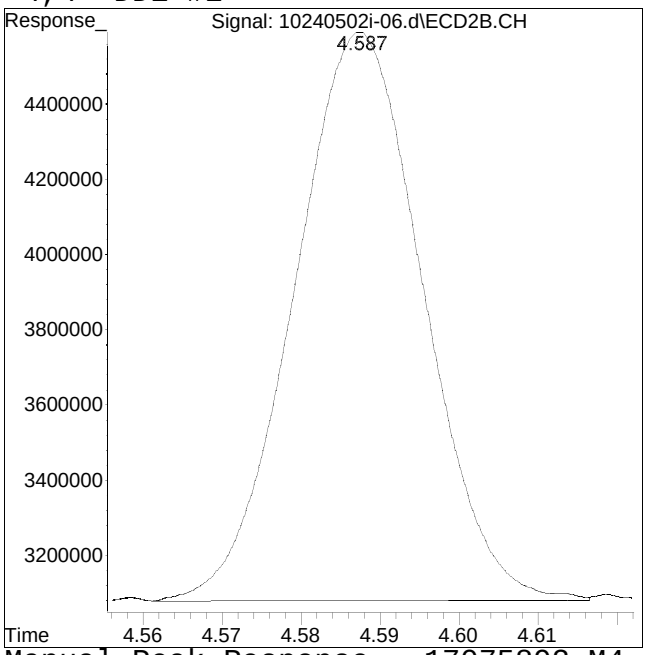
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-06.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 4:42 pm Instrument : Pest 10
Sample : il4pest,42e,,pp 11403 L0.0Quant Date : 5/7/2024 5:40 pm

Compound #53: 4,4'-DDE #2



Original Peak Response = 17058543



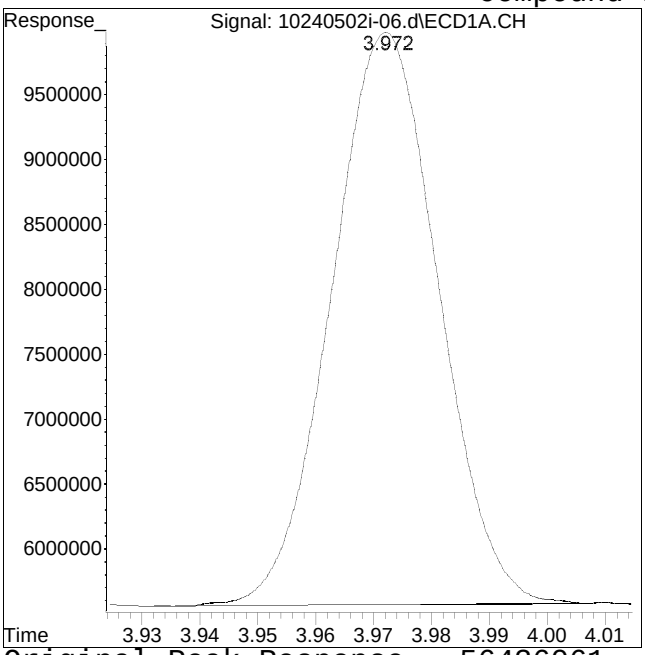
Manual Peak Response = 17075892 M4

M4 = Poor automated baseline construction.

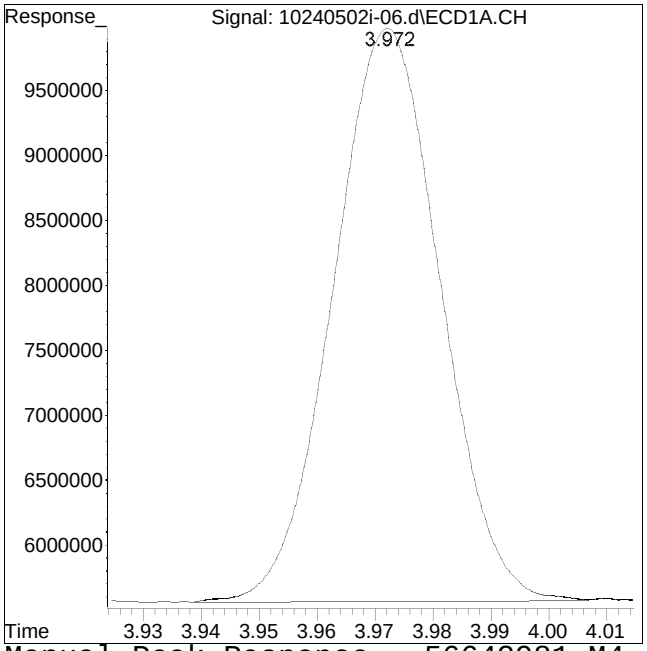
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-06.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 4:42 pm Instrument : Pest 10
Sample : il4pest,42e,,pp 11403 L0.0Quant Date : 5/7/2024 5:40 pm

Compound #17: Dieldrin



Original Peak Response = 56436061



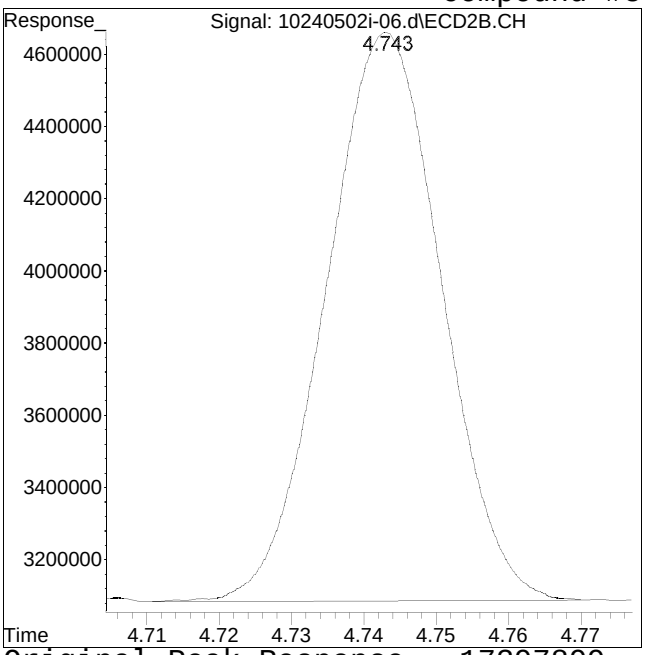
Manual Peak Response = 56642981 M4

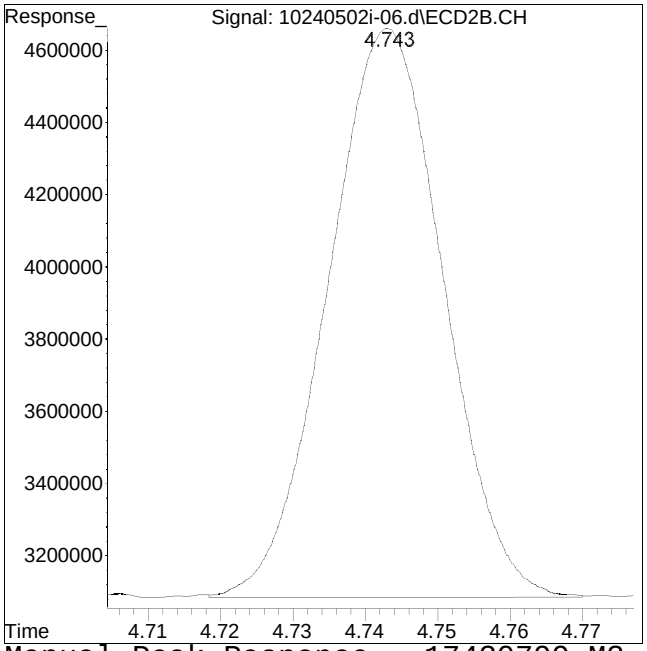
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-06.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 4:42 pm Instrument : Pest 10
Sample : il4pest,42e,,pp 11403 L0.0Quant Date : 5/7/2024 5:40 pm

Compound #55: Dieldrin #2



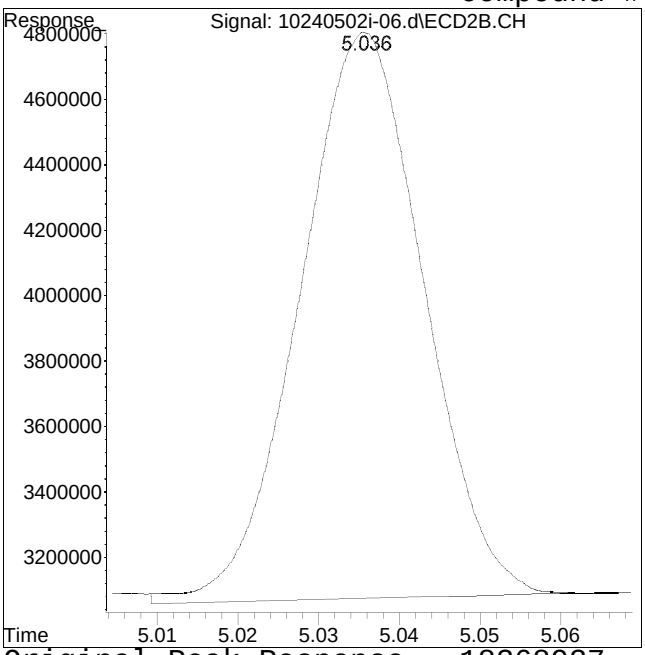


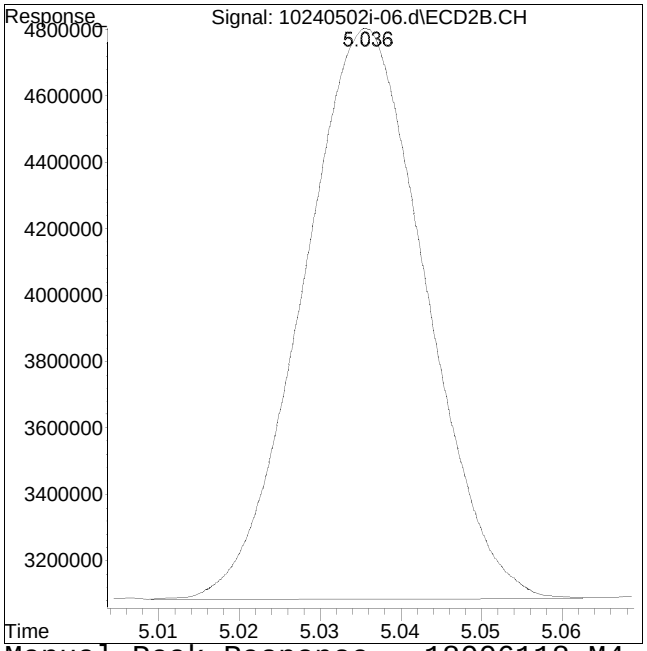
Original Peak Response = 17397899 Manual Peak Response = 17430799 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-06.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 4:42 pm Instrument : Pest 10
Sample : il4pest,42e,,pp 11403 L0.0Quant Date : 5/7/2024 5:40 pm

Compound #56: Endrin #2





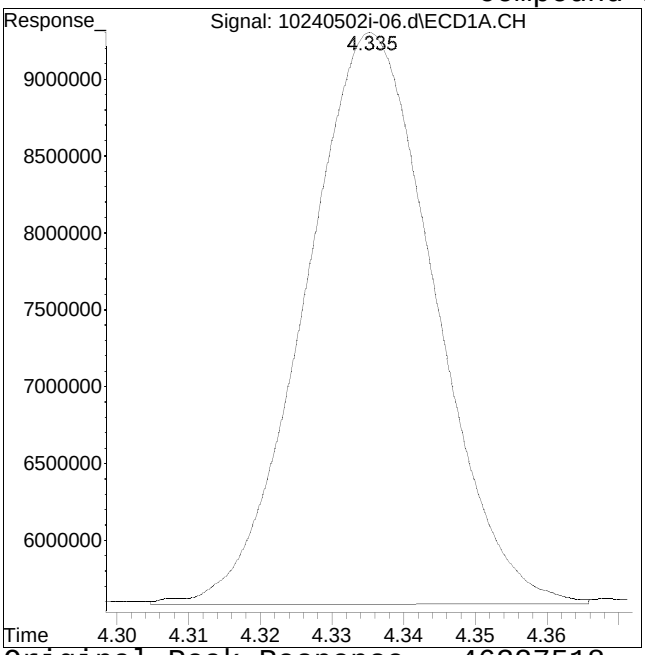
Original Peak Response = 18368937 Manual Peak Response = 18006118 M4
M4 = Poor automated baseline construction.

Manual Integration Report

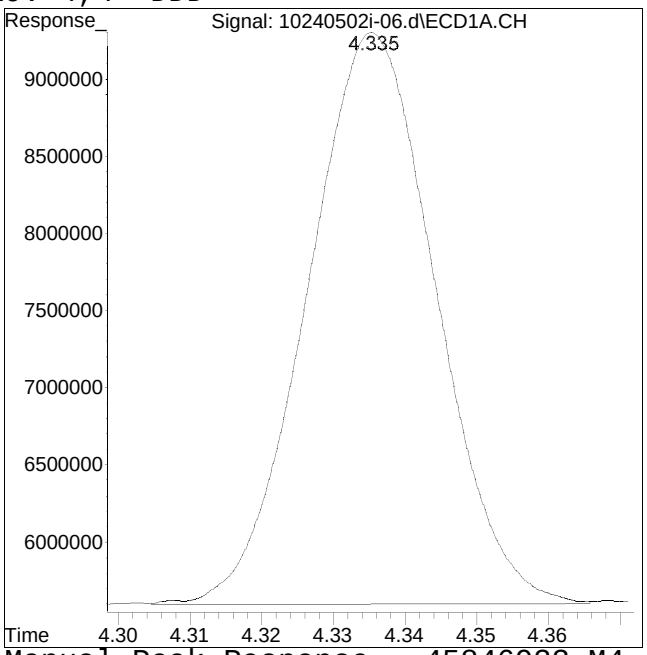
Data Path : I:\PEST\Pest10\2024\240502Q
Data File : 10240502i-06.d
Date Inj'd : 5/2/2024 4:42 pm
Sample : il4pest,42e,,pp 11403 L0.0

Method : pest10_2024_05_02_ugL_ic
Operator : PEST10:jag
Instrument : Pest 10
Quant Date : 5/7/2024 5:40 pm

Compound #19: 4,4'-DDD



Original Peak Response = 46327518



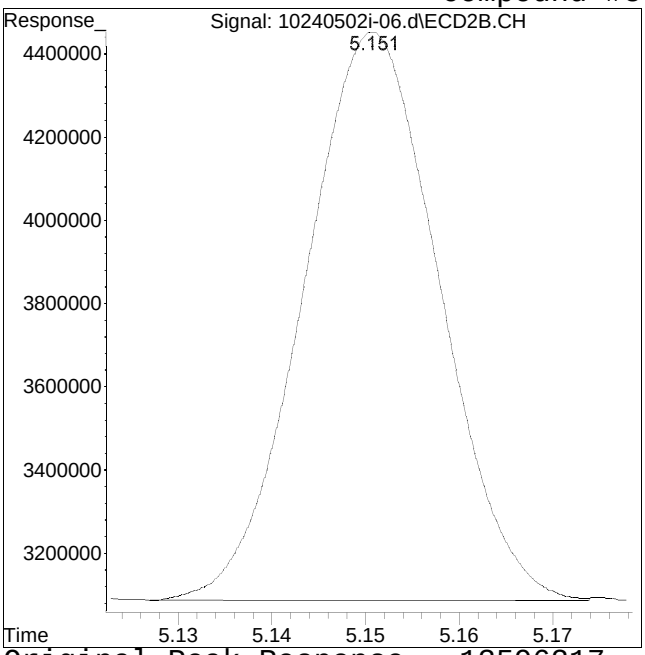
Manual Peak Response = 45846933 M4

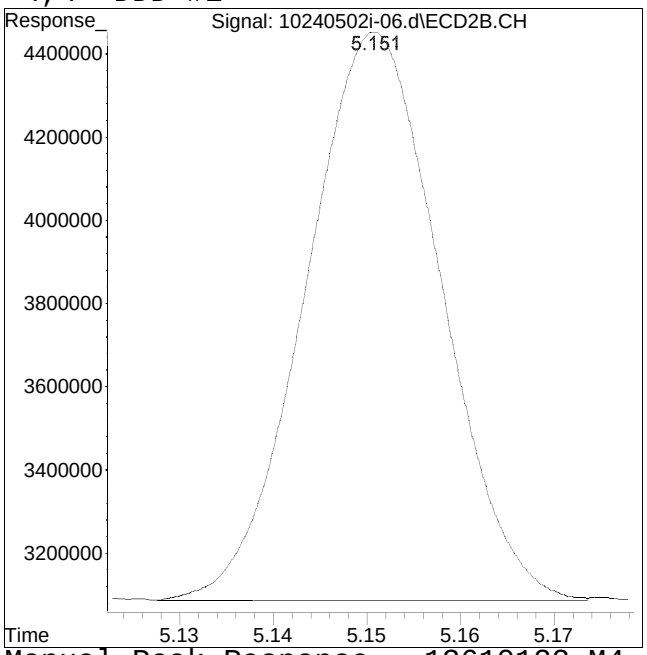
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-06.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 4:42 pm Instrument : Pest 10
Sample : il4pest,42e,,pp 11403 L0.0Quant Date : 5/7/2024 5:40 pm

Compound #57: 4,4'-DDD #2





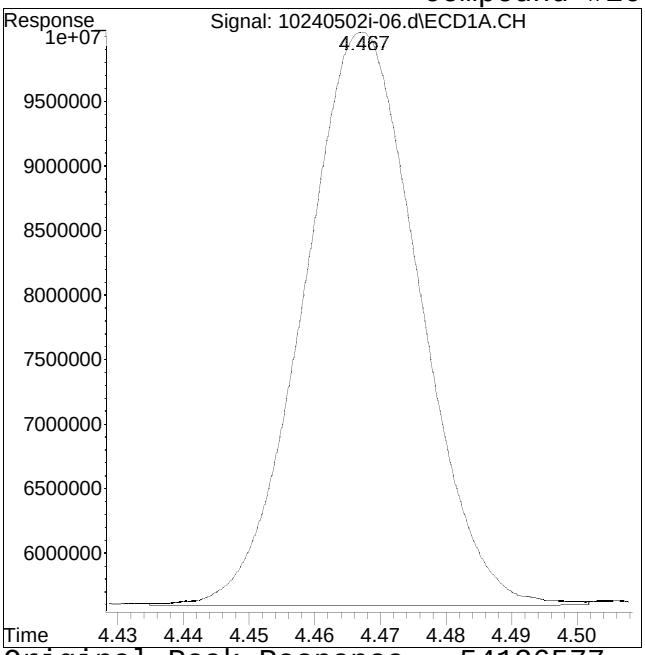
Original Peak Response = 13596217 Manual Peak Response = 13610122 M4
M4 = Poor automated baseline construction.

Manual Integration Report

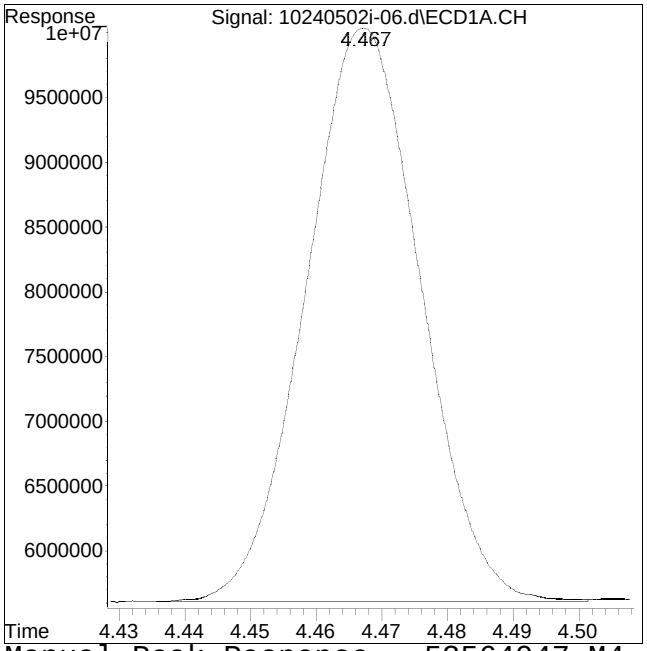
Data Path : I:\PEST\Pest10\2024\240502Q
Data File : 10240502i-06.d
Date Inj'd : 5/2/2024 4:42 pm
Sample : il4pest,42e,,pp 11403 L0.0

Method : pest10_2024_05_02_ugL_ic
Operator : PEST10:jag
Instrument : Pest 10
Quant Date : 5/7/2024 5:40 pm

Compound #20: Endosulfan II



Original Peak Response = 54126577



Manual Peak Response = 53564047 M4

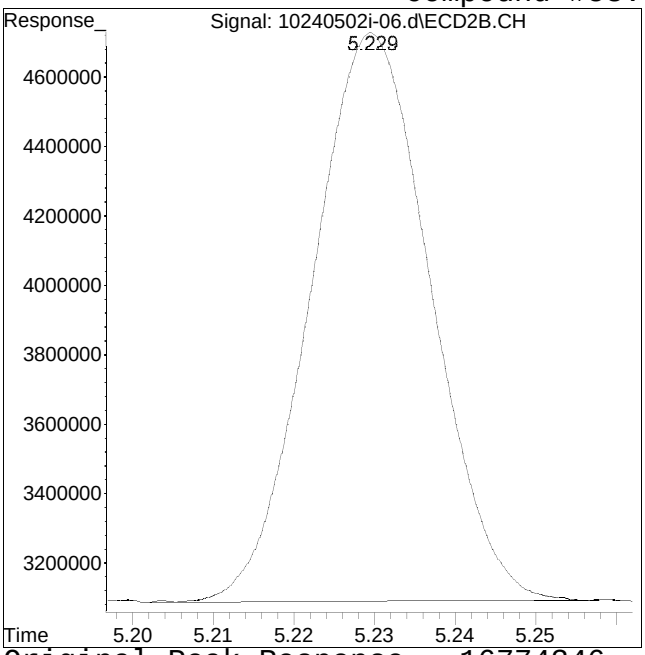
M4 = Poor automated baseline construction.

Manual Integration Report

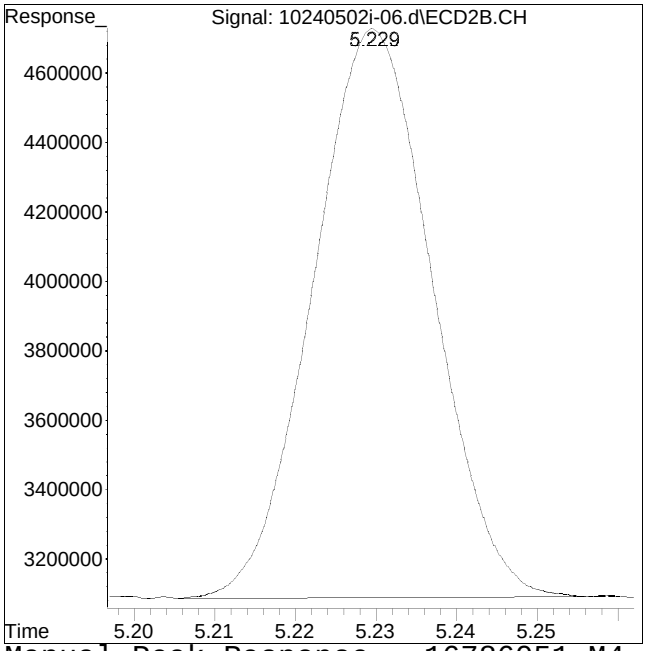
Data Path : I:\PEST\Pest10\2024\240502Q
Data File : 10240502i-06.d
Date Inj'd : 5/2/2024 4:42 pm
Sample : il4pest,42e,,pp 11403 L0.0

Method : pest10_2024_05_02_ugL_ic
Operator : PEST10:jag
Instrument : Pest 10
Quant Date : 5/7/2024 5:40 pm

Compound #58: Endosulfan II #2



Original Peak Response = 16774346



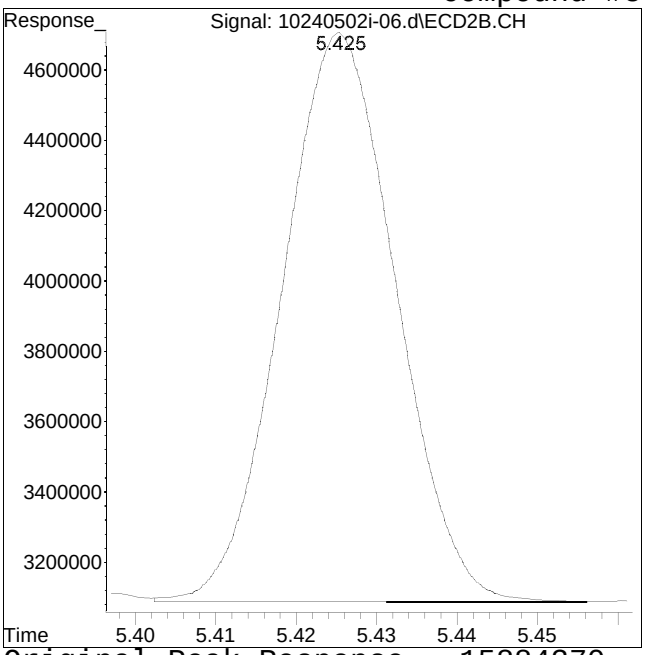
Manual Peak Response = 16786051 M4

M4 = Poor automated baseline construction.

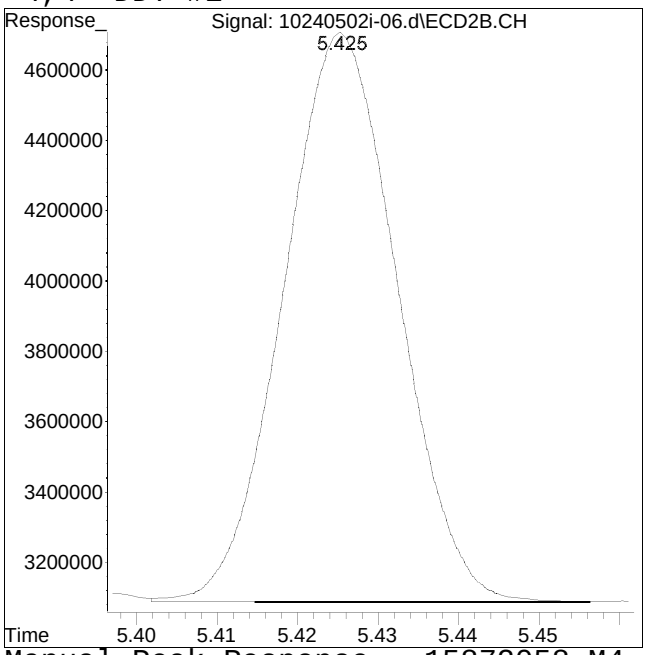
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-06.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 4:42 pm Instrument : Pest 10
Sample : il4pest,42e,,pp 11403 L0.0Quant Date : 5/7/2024 5:40 pm

Compound #59: 4,4'-DDT #2



Original Peak Response = 15884370

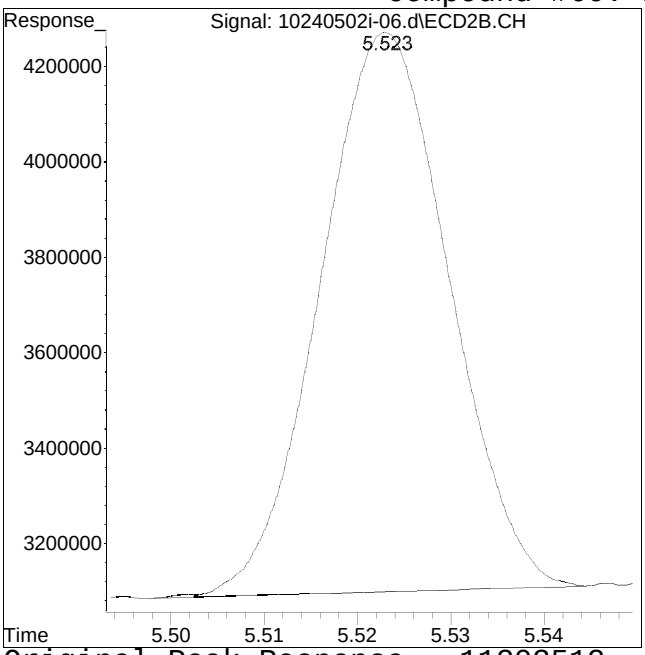


Manual Peak Response = 15872058 M4
M4 = Poor automated baseline construction.

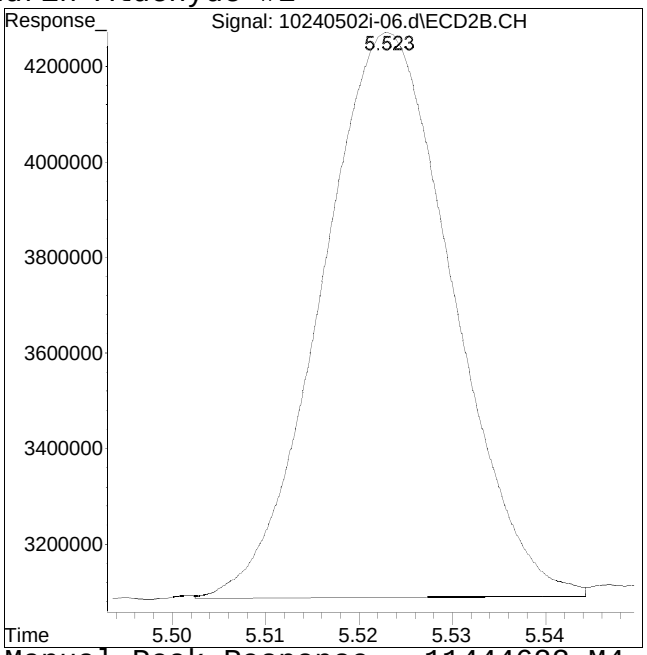
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-06.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 4:42 pm Instrument : Pest 10
Sample : il4pest,42e,,pp 11403 L0.0Quant Date : 5/7/2024 5:40 pm

Compound #60: Endrin Aldehyde #2



Original Peak Response = 11203512



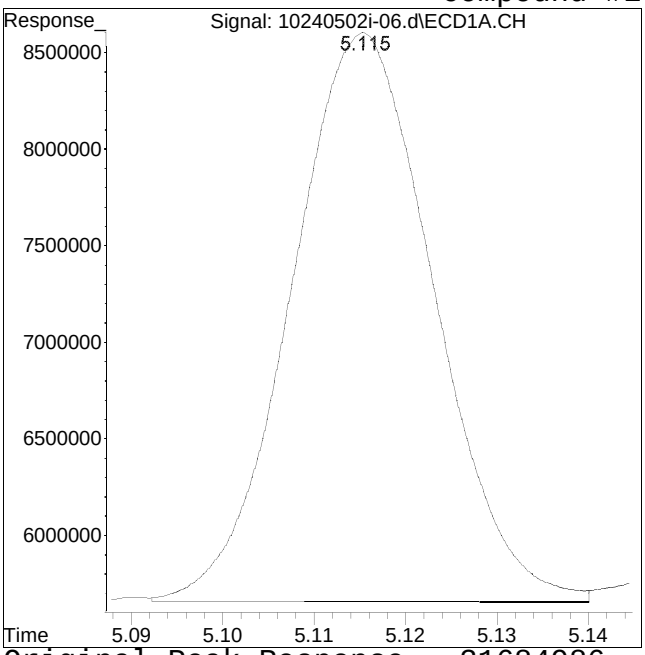
Manual Peak Response = 11444622 M4

M4 = Poor automated baseline construction.

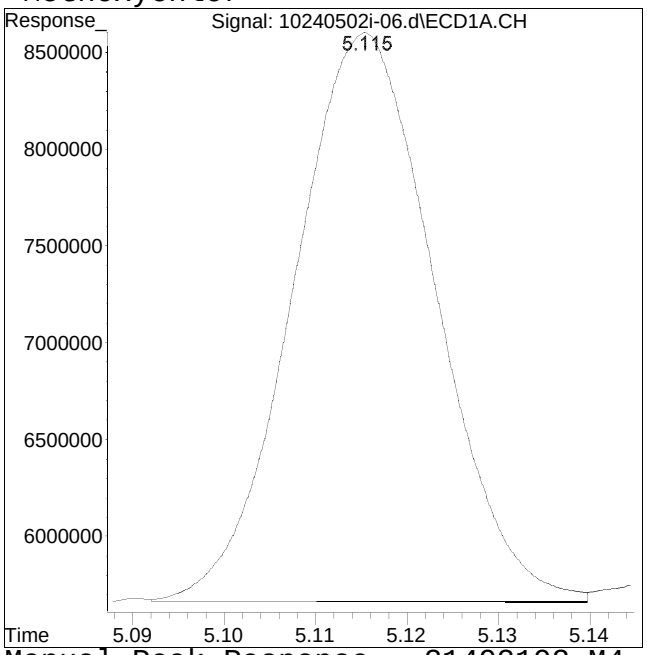
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502Q
Data File : 10240502i-06.d
Date Inj'd : 5/2/2024 4:42 pm
Sample : il4pest,42e,,pp 11403 L0.0
Method : pest10_2024_05_02_ugL_ic
Operator : PEST10:jag
Instrument : Pest 10
Quant Date : 5/7/2024 5:40 pm

Compound #23: Methoxychlor



Original Peak Response = 31684986



Manual Peak Response = 31492192 M4

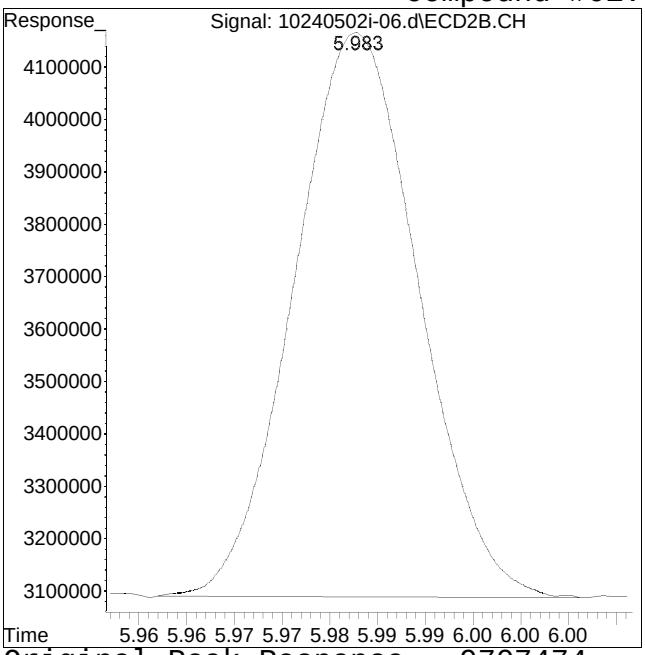
M4 = Poor automated baseline construction.

Manual Integration Report

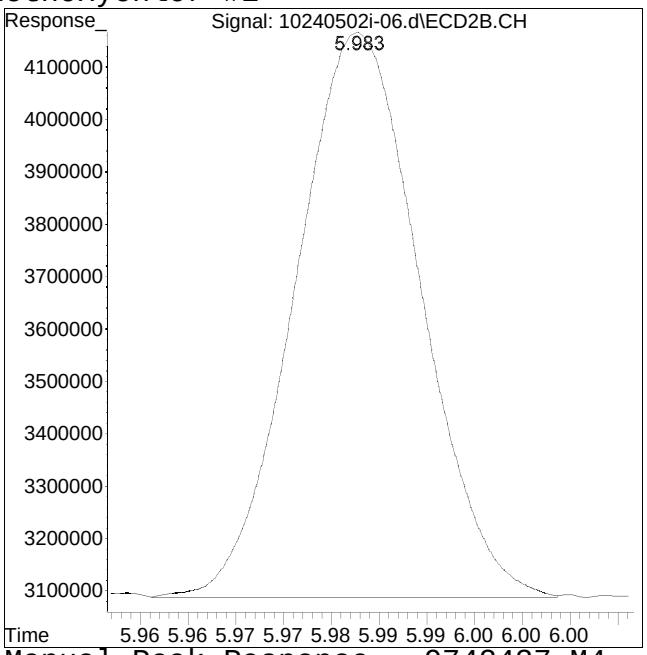
Data Path : I:\PEST\Pest10\2024\240502Q
Data File : 10240502i-06.d
Date Inj'd : 5/2/2024 4:42 pm
Sample : il4pest,42e,,pp 11403 L0.0

Method : pest10_2024_05_02_ugL_ic
Operator : PEST10:jag
Instrument : Pest 10
Quant Date : 5/7/2024 5:40 pm

Compound #61: Methoxychlor #2



Original Peak Response = 9707474



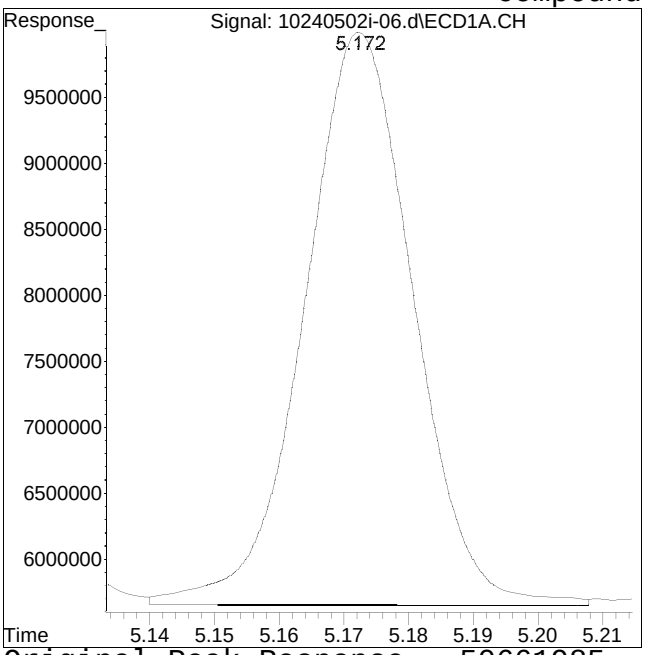
Manual Peak Response = 9742437 M4

M4 = Poor automated baseline construction.

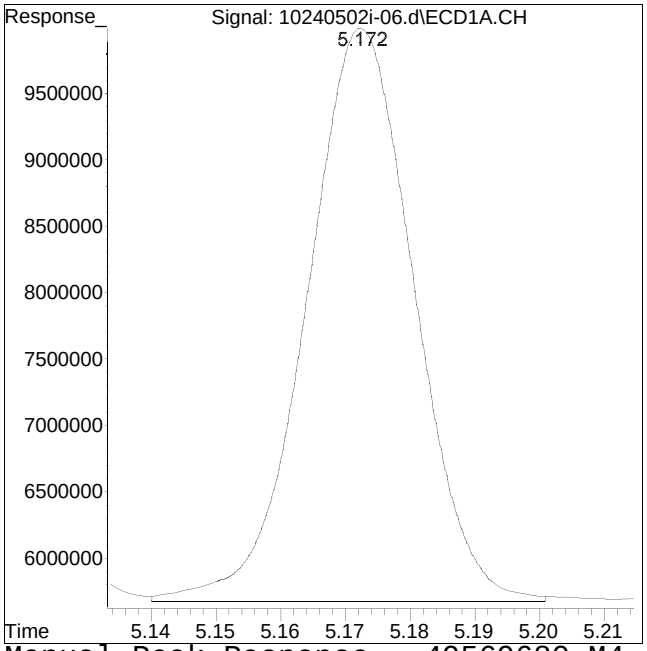
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-06.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 4:42 pm Instrument : Pest 10
Sample : il4pest,42e,,pp 11403 L0.0Quant Date : 5/7/2024 5:40 pm

Compound #24: Mirex



Original Peak Response = 50661985



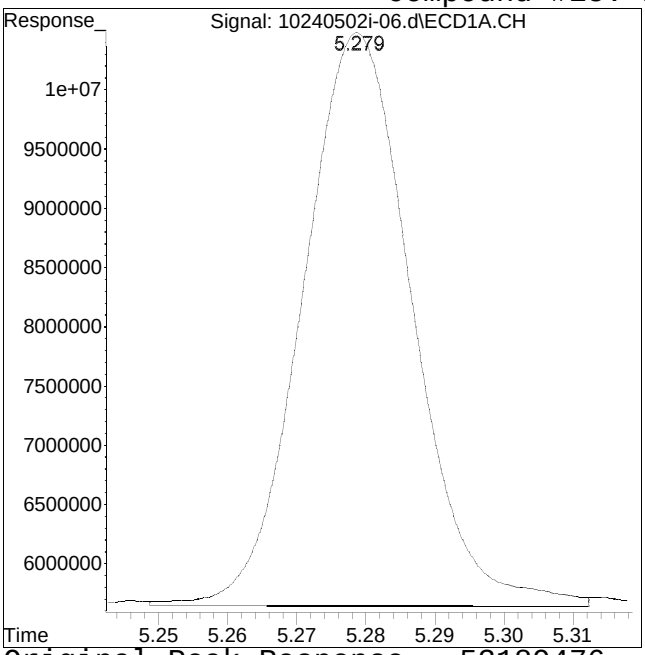
Manual Peak Response = 49569680 M4

M4 = Poor automated baseline construction.

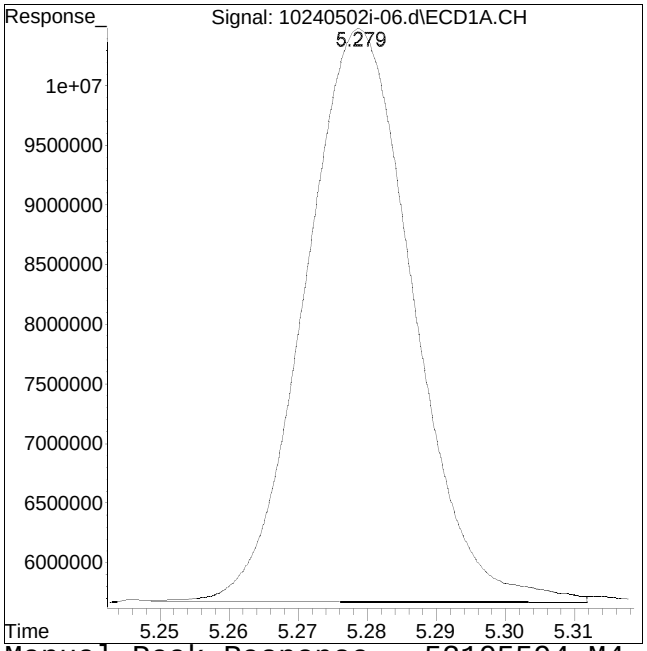
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-06.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 4:42 pm Instrument : Pest 10
Sample : il4pest,42e,,pp 11403 L0.0Quant Date : 5/7/2024 5:40 pm

Compound #25: Endosulfan Sulfate



Original Peak Response = 53189476



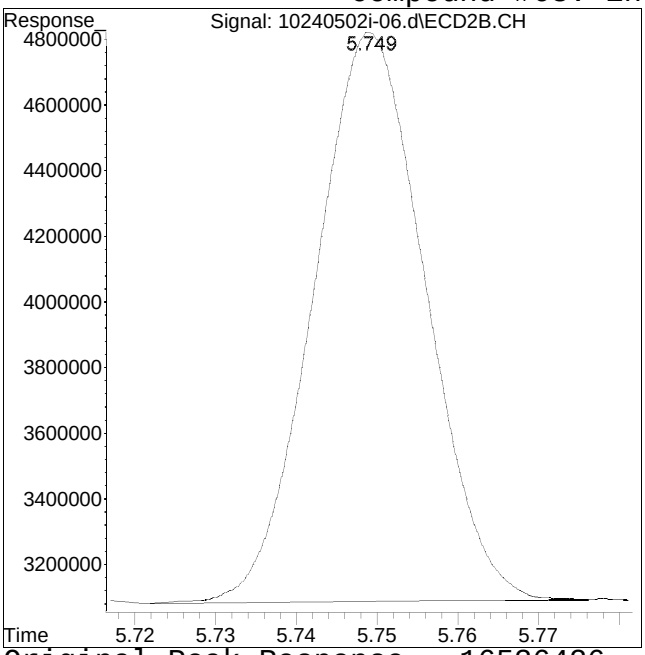
Manual Peak Response = 52105594 M4

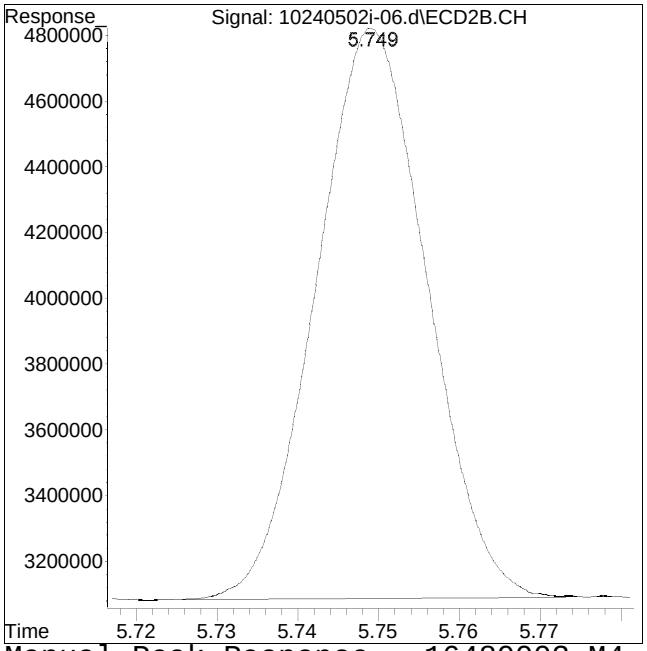
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-06.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 4:42 pm Instrument : Pest 10
Sample : il4pest,42e,,pp 11403 L0.0Quant Date : 5/7/2024 5:40 pm

Compound #63: Endosulfan Sulfate #2



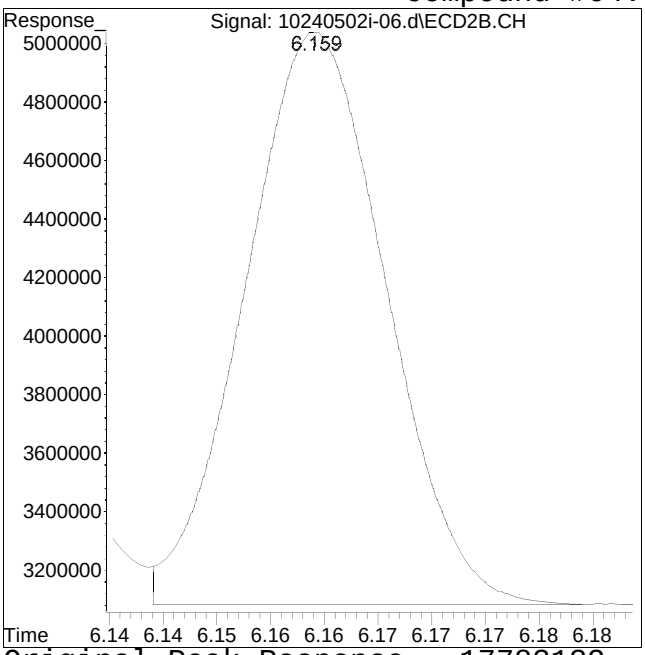


Original Peak Response = 16536426 Manual Peak Response = 16480003 M4
M4 = Poor automated baseline construction.

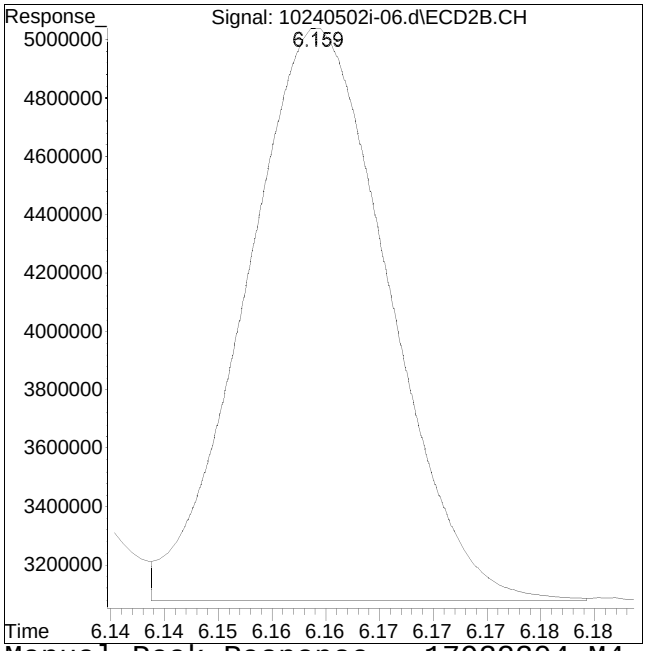
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502Q
Data File : 10240502i-06.d
Date Inj'd : 5/2/2024 4:42 pm
Sample : il4pest,42e,,pp 11403 L0.0
Method : pest10_2024_05_02_ugL_ic
Operator : PEST10:jag
Instrument : Pest 10
Quant Date : 5/7/2024 5:40 pm

Compound #64: Endrin Ketone #2



Original Peak Response = 17783132



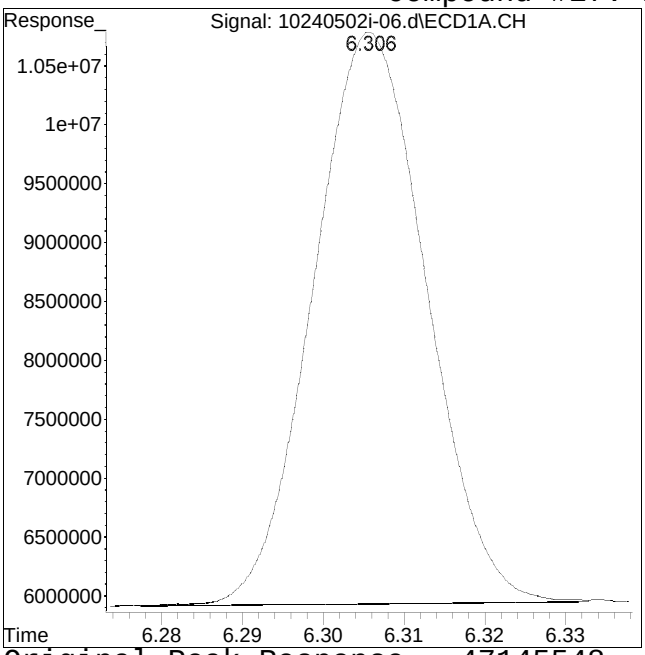
Manual Peak Response = 17932304 M4

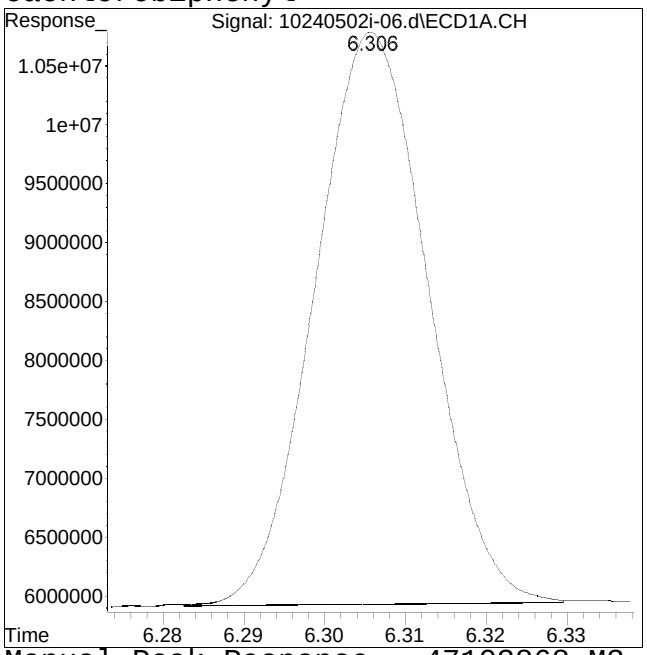
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-06.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 4:42 pm Instrument : Pest 10
Sample : il4pest,42e,,pp 11403 L0.0Quant Date : 5/7/2024 5:40 pm

Compound #27: Decachlorobiphenyl



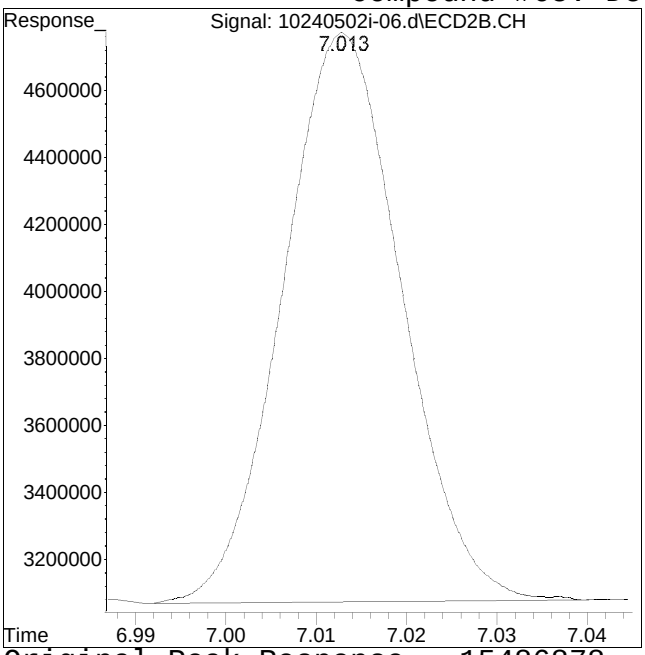


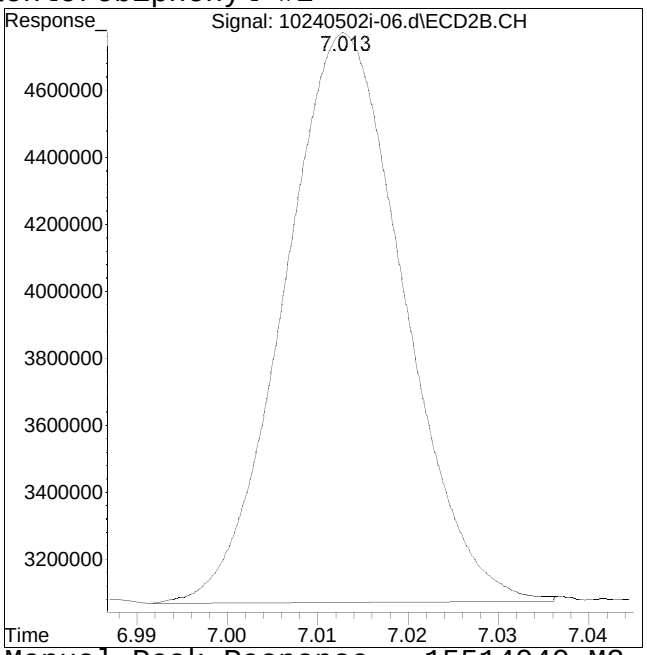
Original Peak Response = 47145548 Manual Peak Response = 47103868 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-06.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 4:42 pm Instrument : Pest 10
Sample : il4pest,42e,,pp 11403 L0.0Quant Date : 5/7/2024 5:40 pm

Compound #65: Decachlorobiphenyl #2





Original Peak Response = 15486878 Manual Peak Response = 15514040 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest10\2024\240502ical\
Data File : 10240502i-07.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 May 2024 4:53 pm
Operator : PEST10:jag
Sample : il5pest,42e,,pp 11402 L0.004
Misc : wg1919460, (Sig #1); ical (Sig #2)
ALS Vial : 7 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 07 16:34:26 2024
Quant Method : I:\PEST\Pest10\2024\240502ical\pest10_2024_05_02_ugL_ical.m
Quant Title : pest
QLast Update : Tue May 07 16:34:02 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

		Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
		Internal Standards						
1)	i	1-br-2-nb_Pe	1.319	1.429	380.4E6	144.4E6	25.000M4	25.000M4
28)	i	1-br-2-nb_Ch	0.000	0.000	0	0	N.D. d	N.D. d
33)	i	1-br-2-nb_To	0.000	0.000	0	0	N.D. d	N.D. d
		System Monitoring Compounds						
2)	s	2,4,5,6-Tetr	1.663	1.920	71158748	21403220	4.686M4	4.043M4
		Spiked Amount 50.000	Range 30 - 150		Recovery =		9.37%#	8.09%#
27)	s	Decachlorobi	6.306	7.013	63296245	20696362	5.030M4	4.846M4
		Spiked Amount 50.000	Range 30 - 150		Recovery =		10.06%#	9.69%#
		Target Compounds						
3)	t	Hexachlorobe	1.877	2.251	76097059	25484547	4.690M4	4.343M4
4)	t	alpha-BHC	1.976	2.350	91089323	28250275	3.920M3	3.469M3
5)	t	gamma-BHC (l	2.180	2.645	86804329	27160723	4.099M3	3.651M4
6)	t	beta-BHC	2.236	2.709	42285603	14021322	4.829M4	4.382M3
7)	t	delta-BHC	2.364	2.984	85296936	26777490	3.962M4	3.527M4
8)	t	Heptachlor	2.527	3.053	86843371	28276952	4.448M4	4.001M4
9)	t	Aldrin	2.770	3.381	81005038	24952309	4.316M4	3.762M3
10)	t	Alachlor	2.893	3.258	13616086	5338166	5.363M4	5.436M4
11)	t	Chlorpyrifos	2.984	3.621	44522329	16062661	5.525M4	5.024M4

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest10\2024\240502ical\
Data File : 10240502i-07.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 May 2024 4:53 pm
Operator : PEST10:jag
Sample : il5pest,42e,,pp 11402 L0.004
Misc : wg1919460, (Sig #1); ical (Sig #2)
ALS Vial : 7 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 07 16:34:26 2024
Quant Method : I:\PEST\Pest10\2024\240502ical\pest10_2024_05_02_ugL_ical.m
Quant Title : pest
QLast Update : Tue May 07 16:34:02 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

		Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
12)	t	Heptachlor E	3.317	4.011	79890935	26457467	4.642M4	4.216M4
13)	t	gamma-Chlord	3.441	4.233	71397238	23026273	4.484	4.056M4
14)	t	alpha-Chlord	3.575	4.398	81261549	26084434	4.550M4	4.108M4
15)	t	4,4'-DDE	3.672	4.588	74919189	22850030	4.211	3.680M4
16)	t	Endosulfan I	3.713	4.459	76550932	24471997	4.697M4	4.174M4
17)	t	Dieldrin	3.973	4.744	77028838	23629629	4.427M4	3.880M4
18)	t	Endrin	4.229	5.036	79260081	24435299	4.448M4	3.919M4
19)	t	4,4'-DDD	4.336	5.152	61906553	18509992	4.316M4	3.723M4
20)	t	Endosulfan I	4.468	5.231	71666941	22655536	4.913M4	4.396M4
21)	t	4,4'-DDT	4.629	5.426	69540614	21471773	4.403M3	3.873M4
22)	t	Endrin Aldeh	4.887	5.524	51036564	16290697	4.166	3.718
23)	t	Methoxychlor	5.116	5.984	42067416	13030213	5.211	4.550M3
24)	t	Mirex	5.173	6.128	66752554	21470435	5.253M4	4.906
25)	t	Endosulfan S	5.279	5.750	70655233	22327085	4.823M4	4.301
26)	t	Endrin Keton	5.506	6.160	76385462	24101372	4.697M4	4.211M4
29)	l1	chlordane-1	0.000	0.000	0	0	N.D. d	N.D. d
30)	l1	chlordane-3	0.000	0.000	0	0	N.D. d	N.D. d
31)	l1	chlordane-4	0.000	0.000	0	0	N.D. d	N.D. d
32)	l1	chlordane-5	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\PEST\Pest10\2024\240502ical\
Data File : 10240502i-07.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 May 2024 4:53 pm
Operator : PEST10:jag
Sample : il5pest,42e,,pp 11402 L0.004
Misc : wg1919460, (Sig #1); ical (Sig #2)
ALS Vial : 7 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 07 16:34:26 2024
Quant Method : I:\PEST\Pest10\2024\240502ical\pest10_2024_05_02_ugL_ical.m
Quant Title : pest
QLast Update : Tue May 07 16:34:02 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Sum chlordane-1			0	0	N.D.	N.D.
Average	chlordane-1					0.000	0.000
34) l2	toxaphene-1	0.000	0.000	0	0	N.D. d	N.D. d
35) l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
36) l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
37) l2	toxaphene-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

	Sum toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

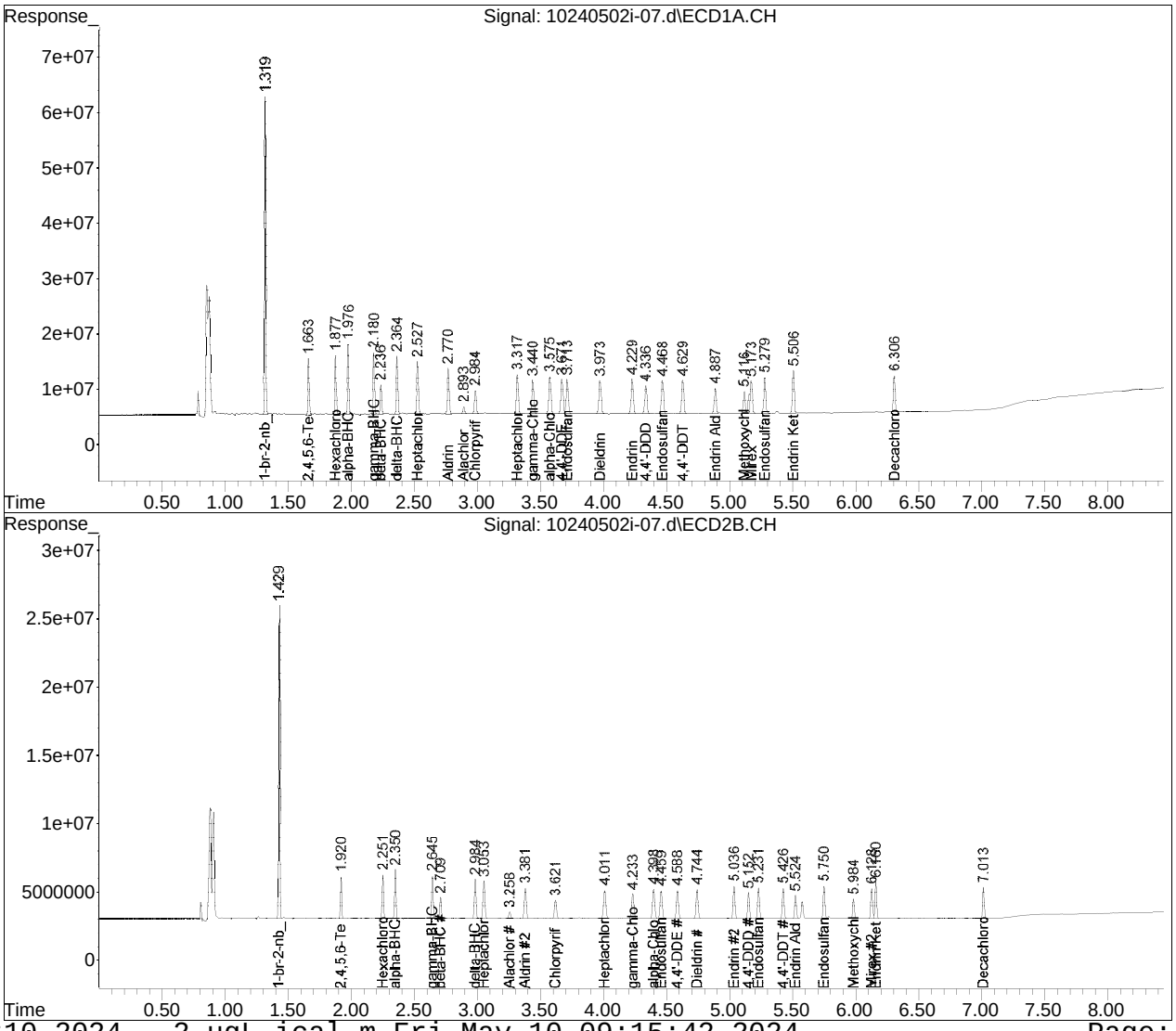
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest10\2024\240502ical\
Data File : 10240502i-07.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 May 2024 4:53 pm
Operator : PEST10:jag
Sample : il5pest,42e,,pp 11402 L0.004
Misc : wg1919460, (Sig #1); ical (Sig #2)
ALS Vial : 7 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 07 16:34:26 2024
Quant Method : I:\PEST\Pest10\2024\240502ical\pest10_2024_05_02_ugL_ical.m
Quant Title : pest
QLast Update : Tue May 07 16:34:02 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

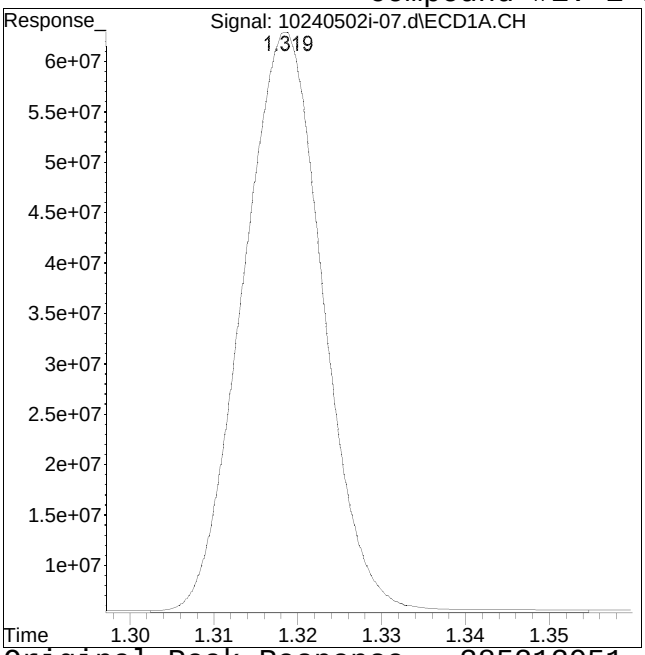
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



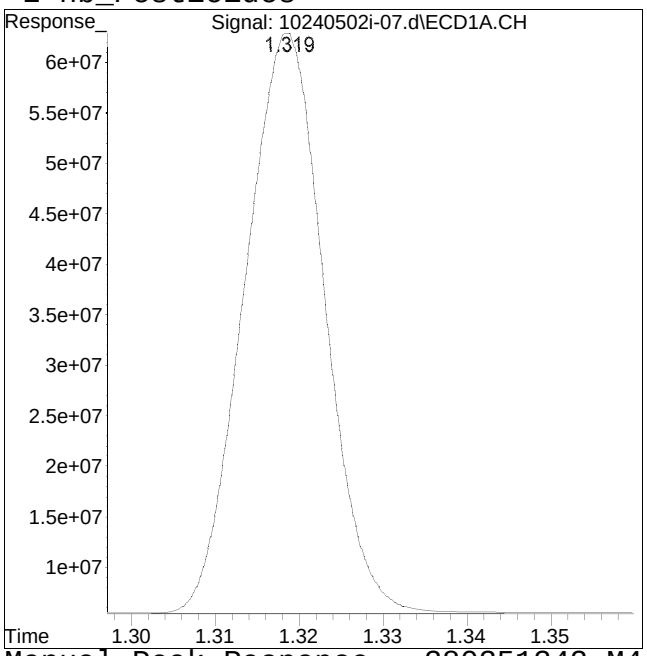
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-07.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 4:53 pm Instrument : Pest 10
Sample : il5pest,42e,,pp 11402 L0.0Quant Date : 5/7/2024 4:34 pm

Compound #1: 1-br-2-nb_Pesticides



Original Peak Response = 385212951



Manual Peak Response = 380351342 M4

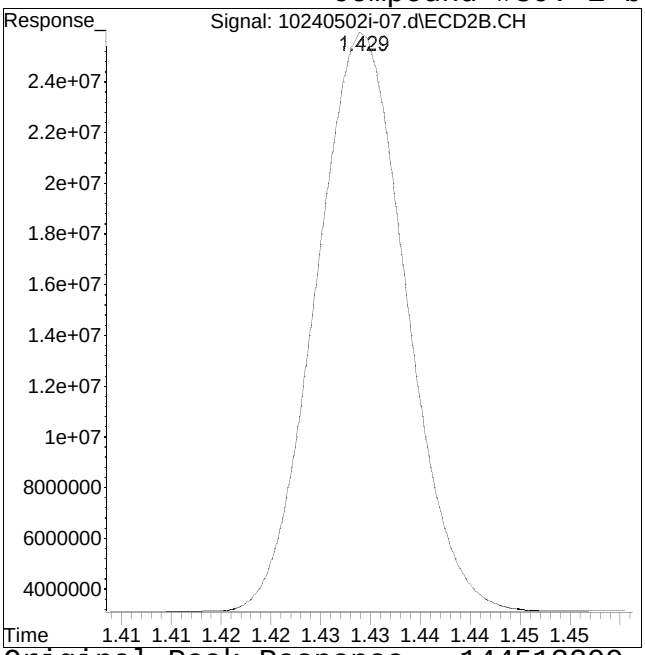
M4 = Poor automated baseline construction.

Manual Integration Report

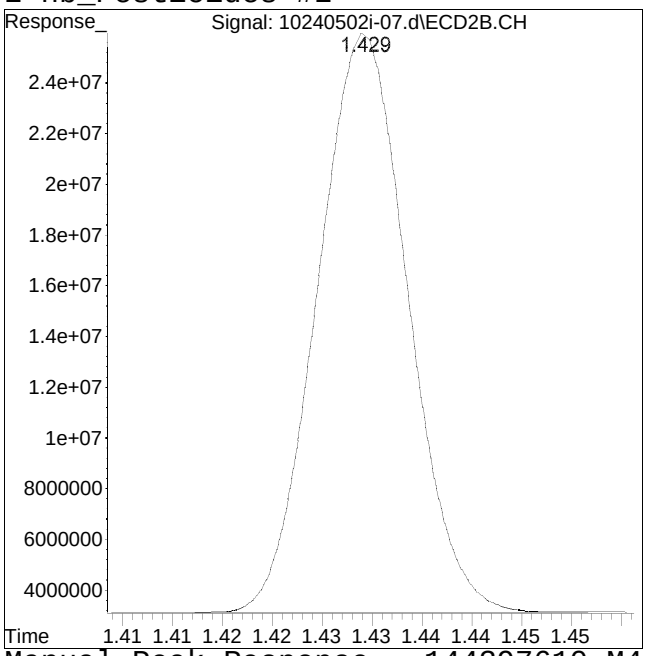
Data Path : I:\PEST\Pest10\2024\240502Q
Data File : 10240502i-07.d
Date Inj'd : 5/2/2024 4:53 pm
Sample : il5pest,42e,,pp 11402 L0.0

Method : pest10_2024_05_02_ugL_ic
Operator : PEST10:jag
Instrument : Pest 10
Quant Date : 5/7/2024 4:34 pm

Compound #39: 1-br-2-nb_Pesticides #2



Original Peak Response = 144513209



Manual Peak Response = 144397610 M4

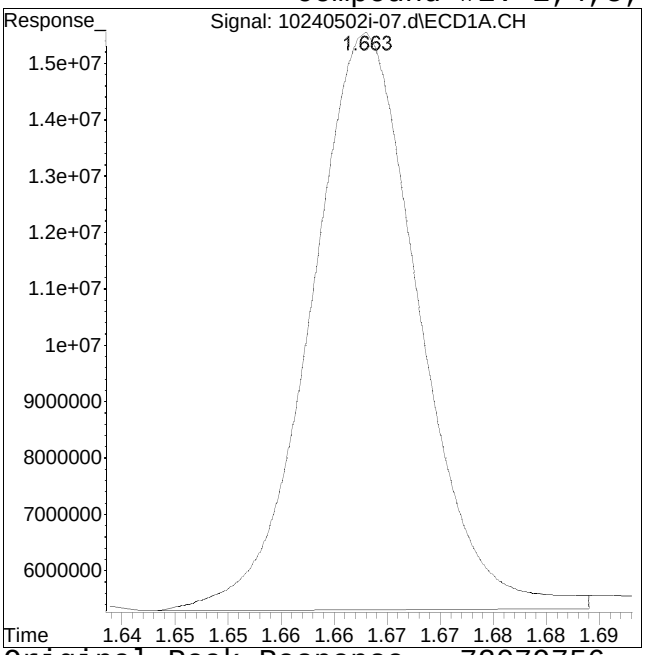
M4 = Poor automated baseline construction.

Manual Integration Report

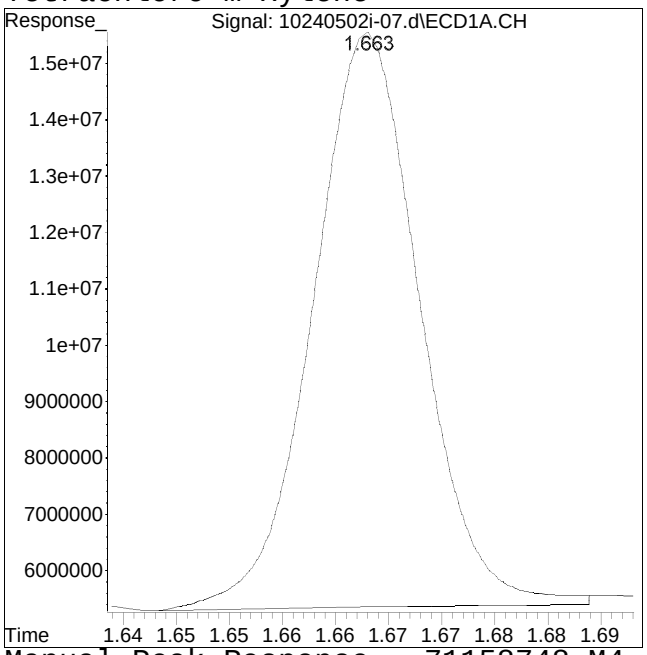
Data Path : I:\PEST\Pest10\2024\240502Q
Data File : 10240502i-07.d
Date Inj'd : 5/2/2024 4:53 pm
Sample : il5pest,42e,,pp 11402 L0.0

Method : pest10_2024_05_02_ugL_ic
Operator : PEST10:jag
Instrument : Pest 10
Quant Date : 5/7/2024 4:34 pm

Compound #2: 2,4,5,6-Tetrachloro-m-xylene



Original Peak Response = 72079756



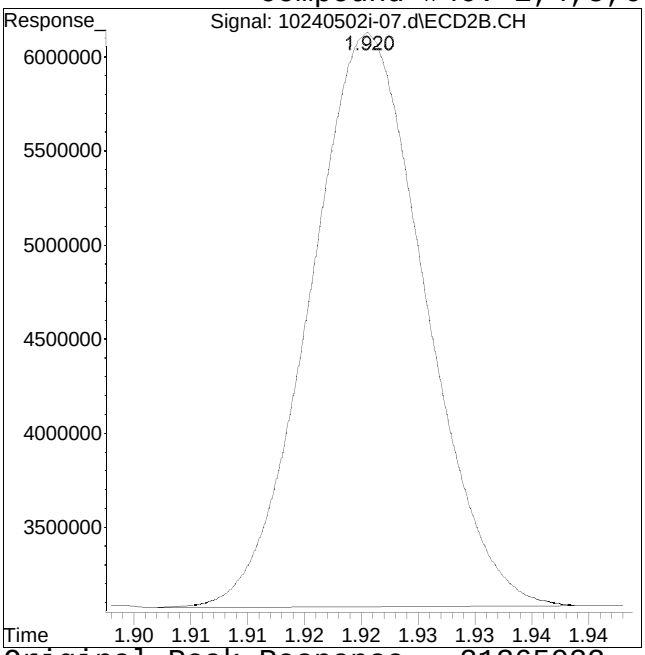
Manual Peak Response = 71158748 M4

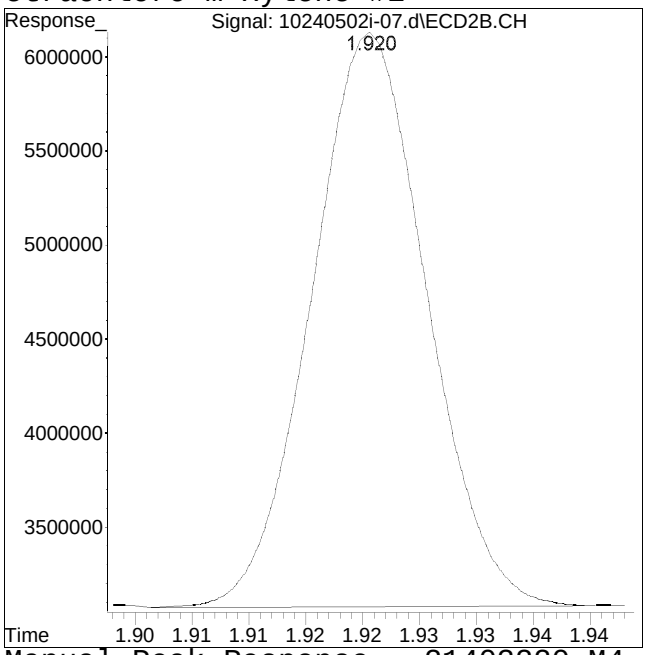
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-07.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 4:53 pm Instrument : Pest 10
Sample : il5pest,42e,,pp 11402 L0.0Quant Date : 5/7/2024 4:34 pm

Compound #40: 2,4,5,6-Tetrachloro-m-xylene #2



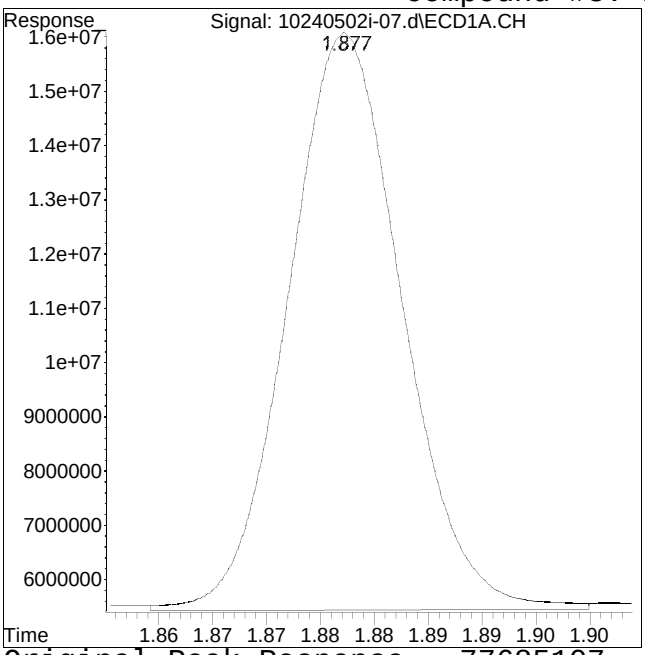


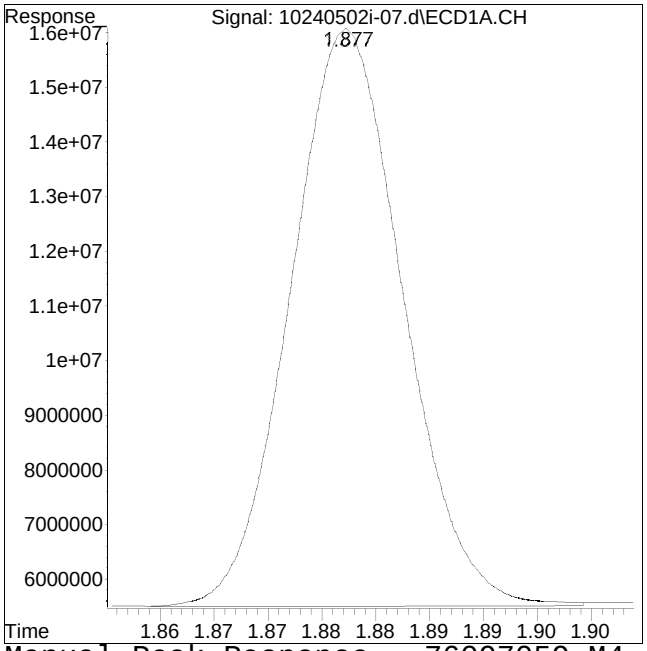
Original Peak Response = 21365032 Manual Peak Response = 21403220 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-07.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 4:53 pm Instrument : Pest 10
Sample : il5pest,42e,,pp 11402 L0.0Quant Date : 5/7/2024 4:34 pm

Compound #3: Hexachlorobenzene



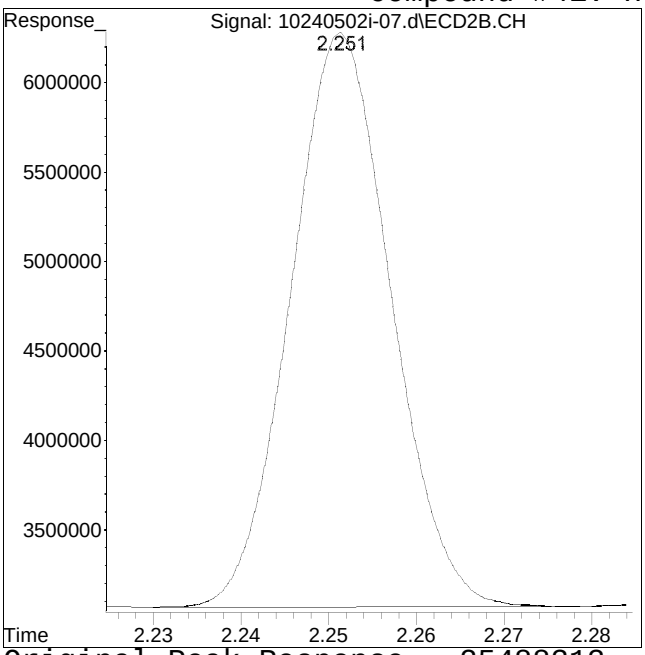


Original Peak Response = 77685107 Manual Peak Response = 76097059 M4
M4 = Poor automated baseline construction.

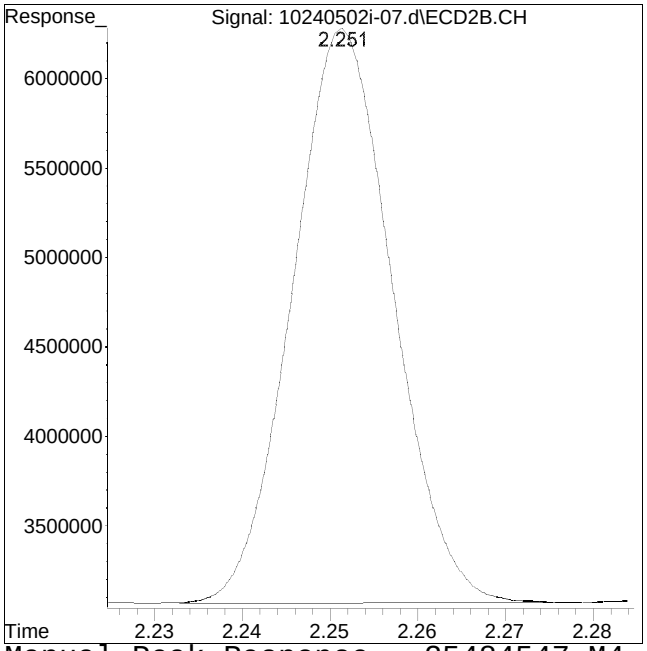
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-07.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 4:53 pm Instrument : Pest 10
Sample : il5pest,42e,,pp 11402 L0.0Quant Date : 5/7/2024 4:34 pm

Compound #41: Hexachlorobenzene #2



Original Peak Response = 25488313



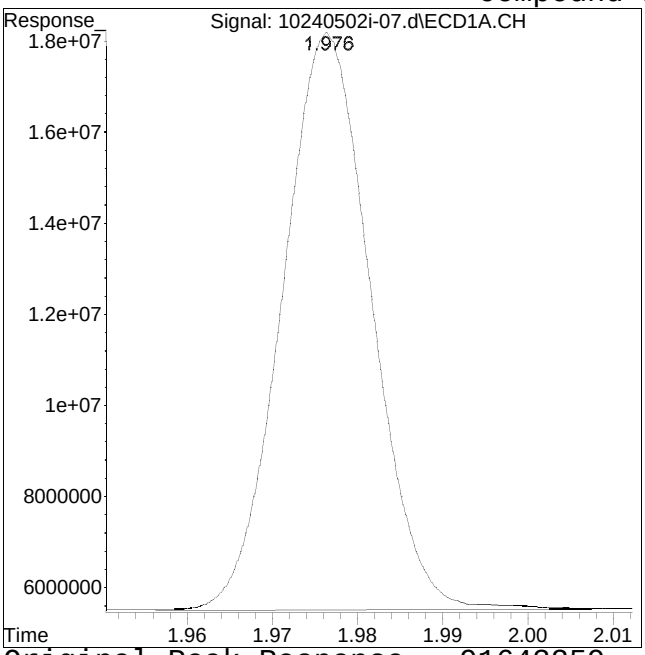
Manual Peak Response = 25484547 M4

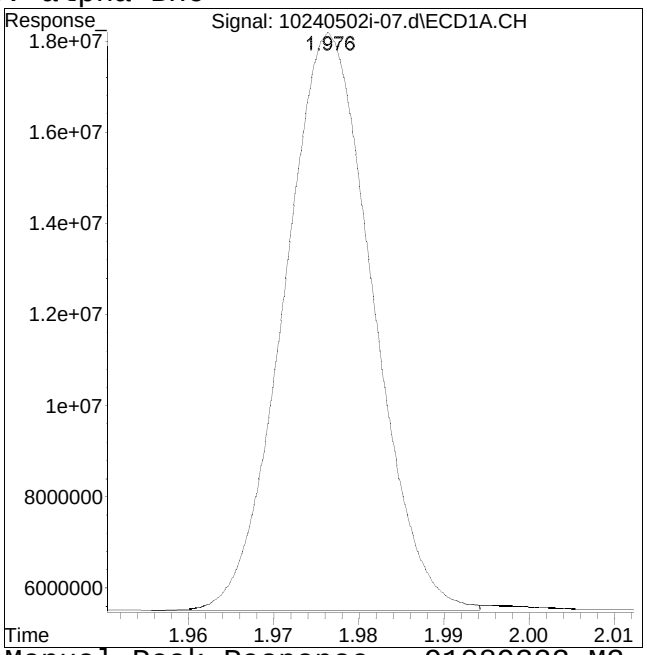
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-07.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 4:53 pm Instrument : Pest 10
Sample : il5pest,42e,,pp 11402 L0.0Quant Date : 5/7/2024 4:34 pm

Compound #4: alpha-BHC



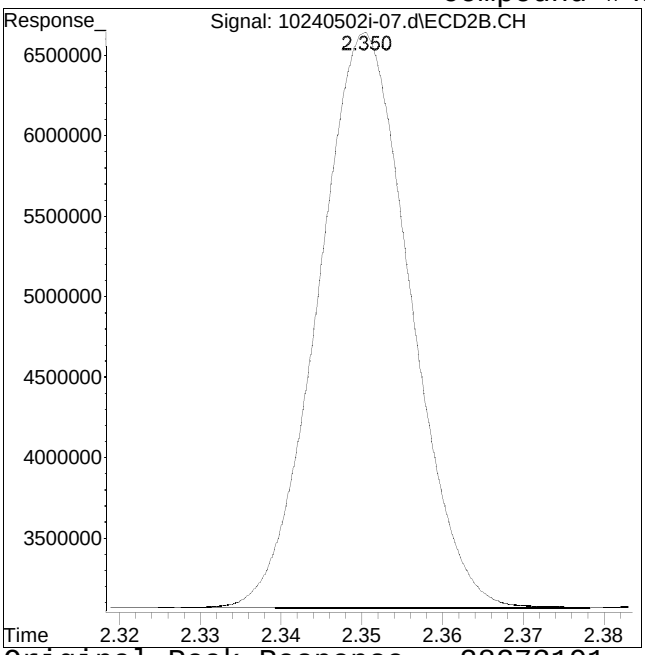


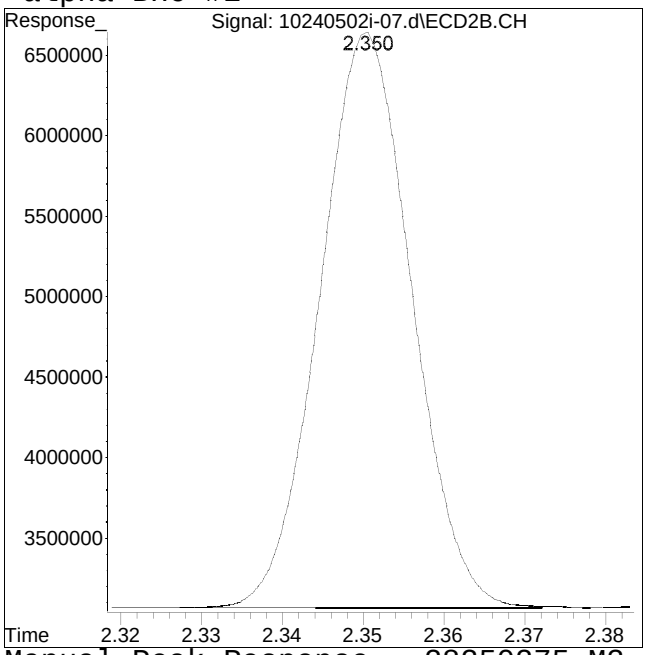
Original Peak Response = 91643259 Manual Peak Response = 91089323 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-07.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 4:53 pm Instrument : Pest 10
Sample : il5pest,42e,,pp 11402 L0.0Quant Date : 5/7/2024 4:34 pm

Compound #42: alpha-BHC #2



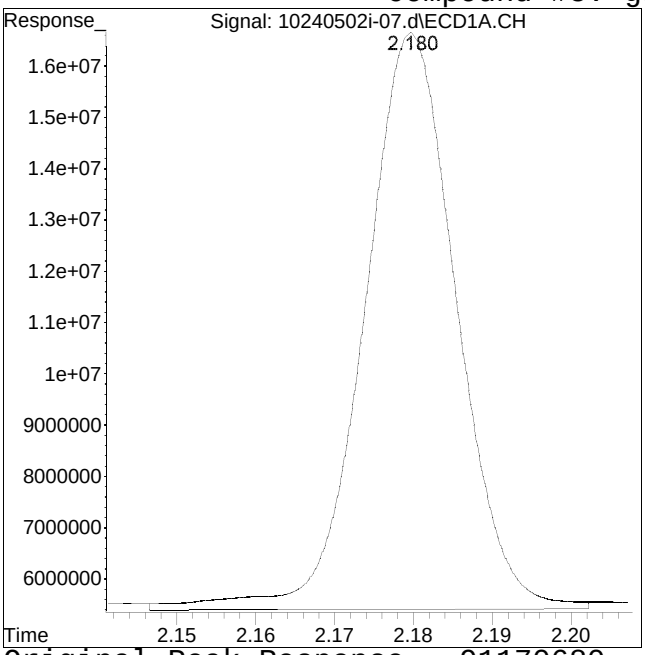


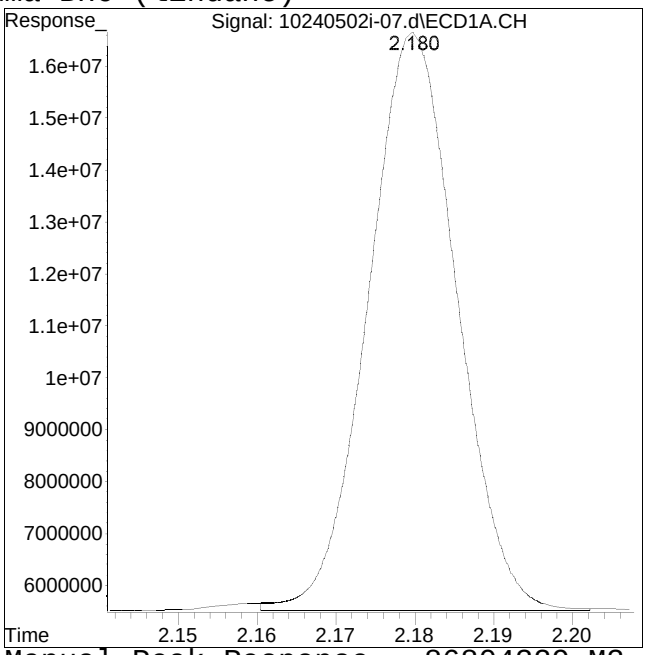
Original Peak Response = 28273191 Manual Peak Response = 28250275 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-07.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 4:53 pm Instrument : Pest 10
Sample : il5pest,42e,,pp 11402 L0.0Quant Date : 5/7/2024 4:34 pm

Compound #5: gamma-BHC (lindane)



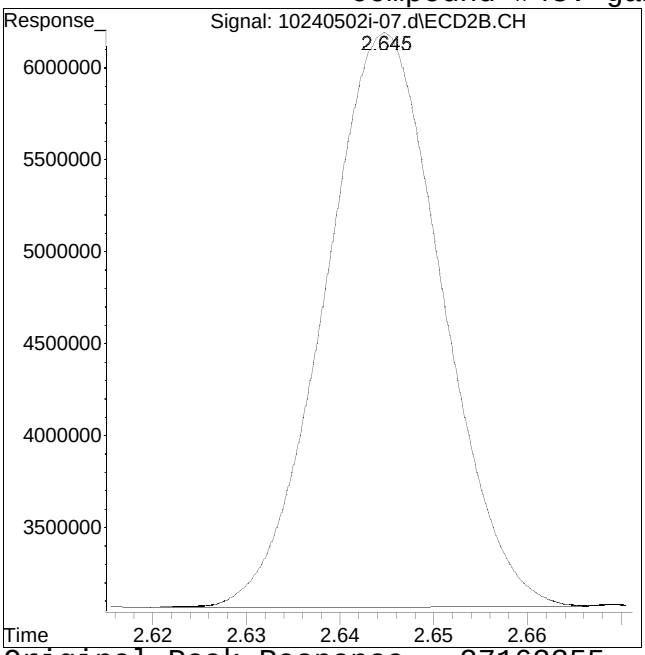


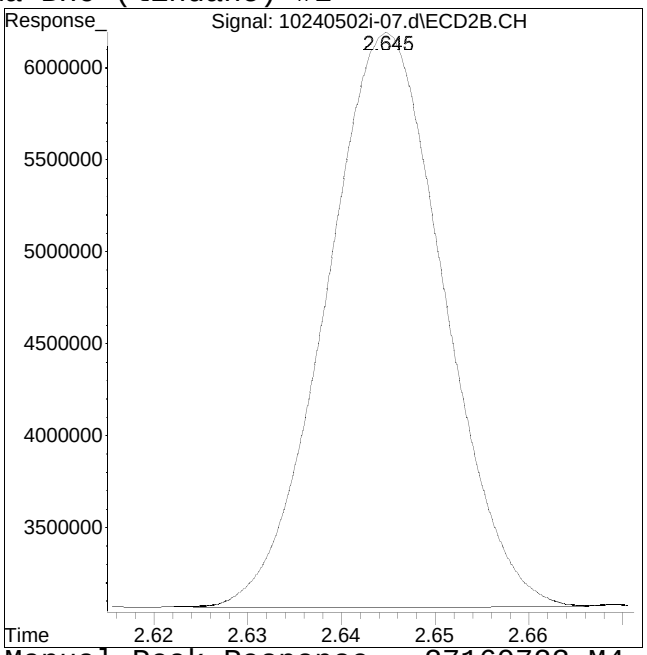
Original Peak Response = 91170680 Manual Peak Response = 86804329 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-07.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 4:53 pm Instrument : Pest 10
Sample : il5pest,42e,,pp 11402 L0.0Quant Date : 5/7/2024 4:34 pm

Compound #43: gamma-BHC (lindane) #2



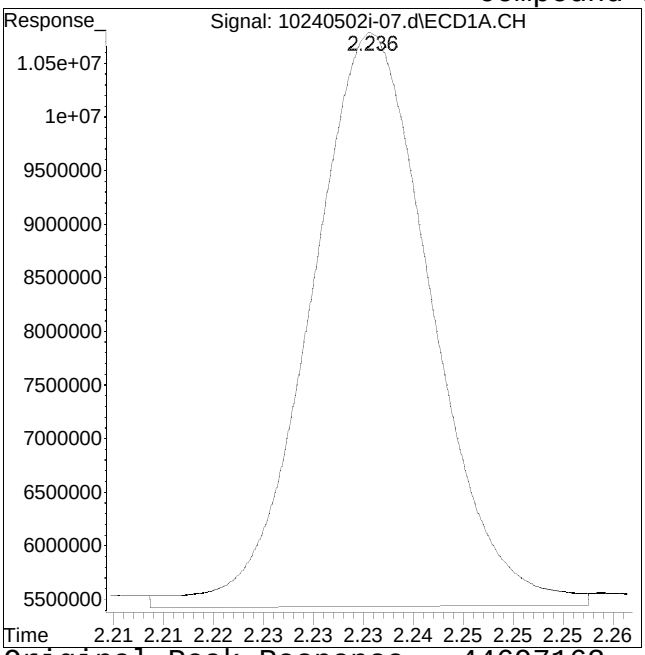


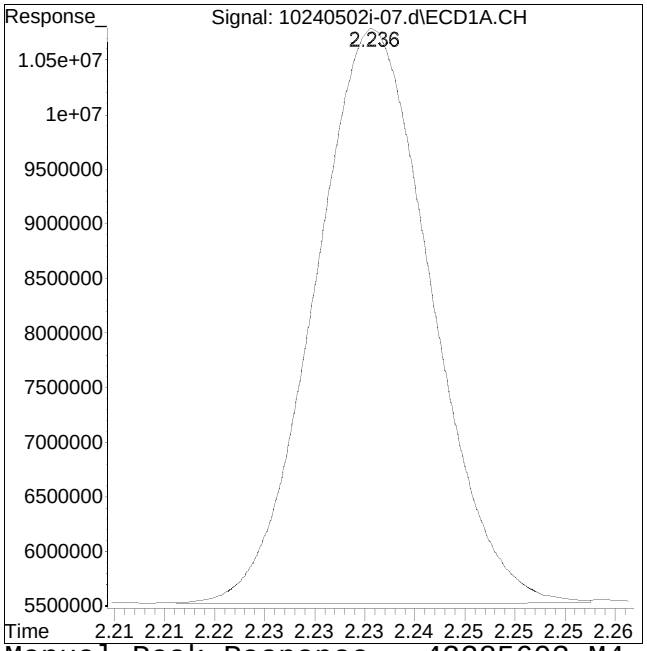
Original Peak Response = 27162355 Manual Peak Response = 27160723 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-07.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 4:53 pm Instrument : Pest 10
Sample : il5pest,42e,,pp 11402 L0.0Quant Date : 5/7/2024 4:34 pm

Compound #6: beta-BHC



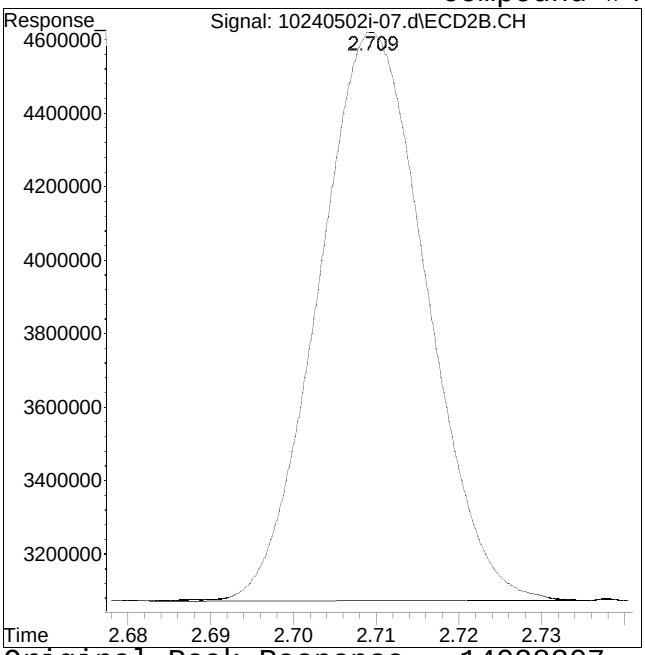


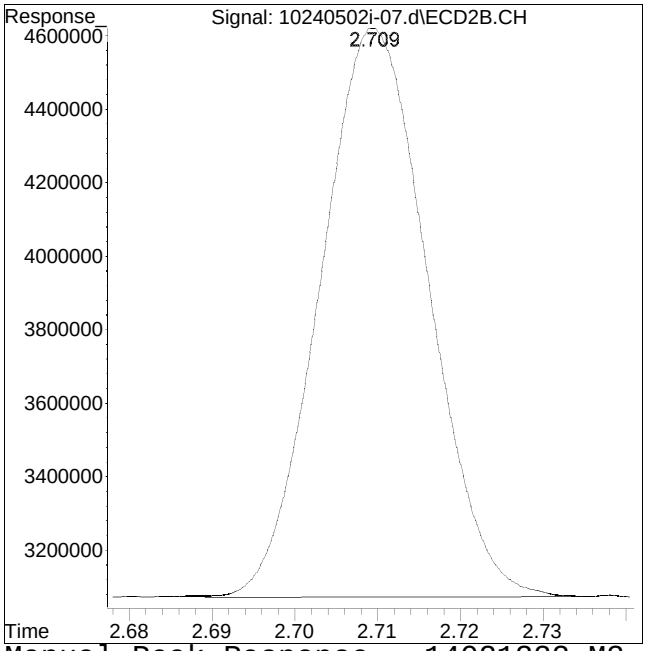
Original Peak Response = 44697162 Manual Peak Response = 42285603 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-07.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 4:53 pm Instrument : Pest 10
Sample : il5pest,42e,,pp 11402 L0.0Quant Date : 5/7/2024 4:34 pm

Compound #44: beta-BHC #2



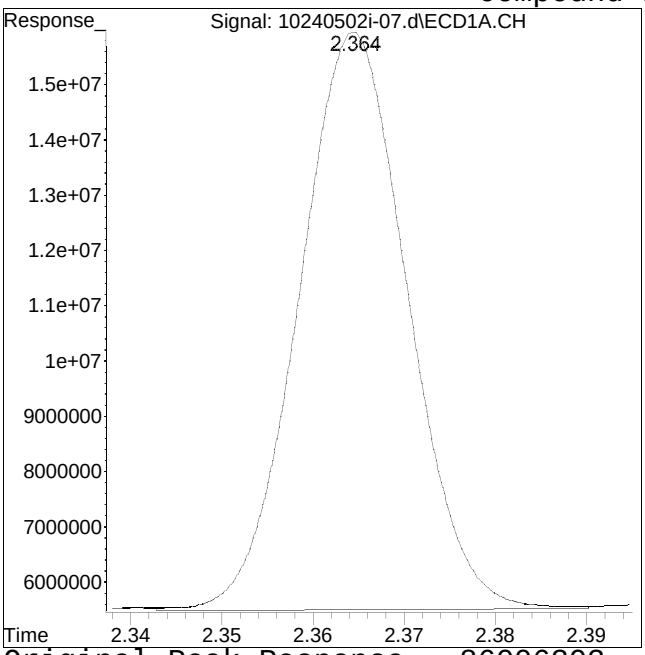


Original Peak Response = 14028307 Manual Peak Response = 14021322 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

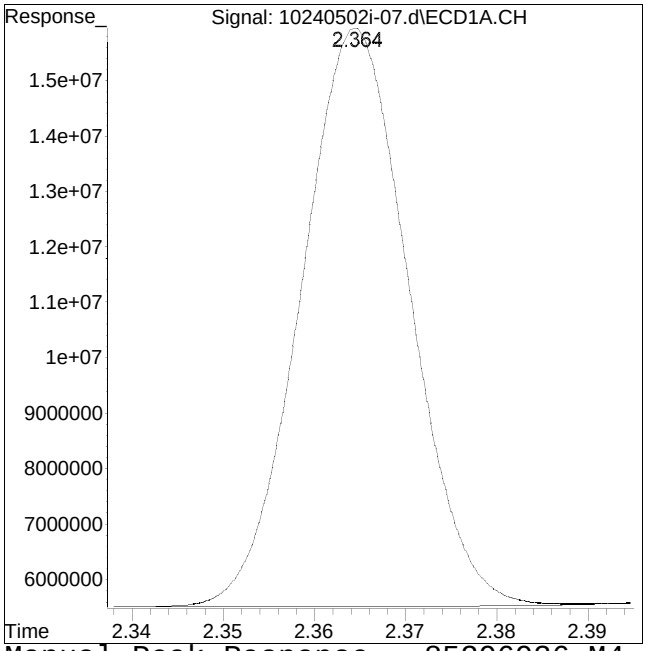
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-07.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 4:53 pm Instrument : Pest 10
Sample : il5pest,42e,,pp 11402 L0.0Quant Date : 5/7/2024 4:34 pm

Compound #7: delta-BHC



Original Peak Response = 86006393

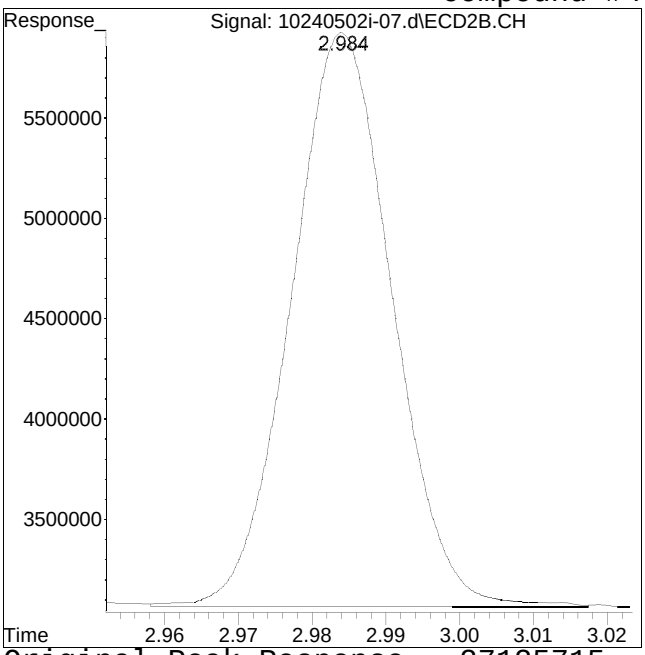


Manual Peak Response = 85296936 M4
M4 = Poor automated baseline construction.

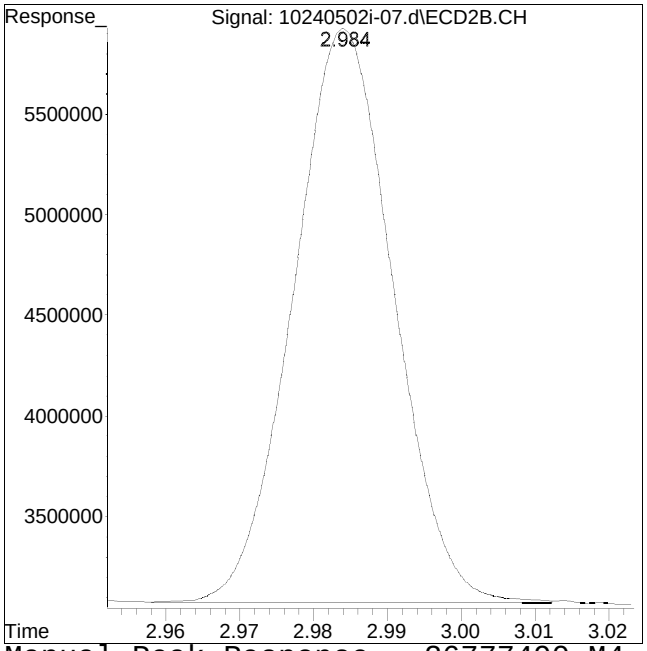
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-07.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 4:53 pm Instrument : Pest 10
Sample : il5pest,42e,,pp 11402 L0.0Quant Date : 5/7/2024 4:34 pm

Compound #45: delta-BHC #2



Original Peak Response = 27125715



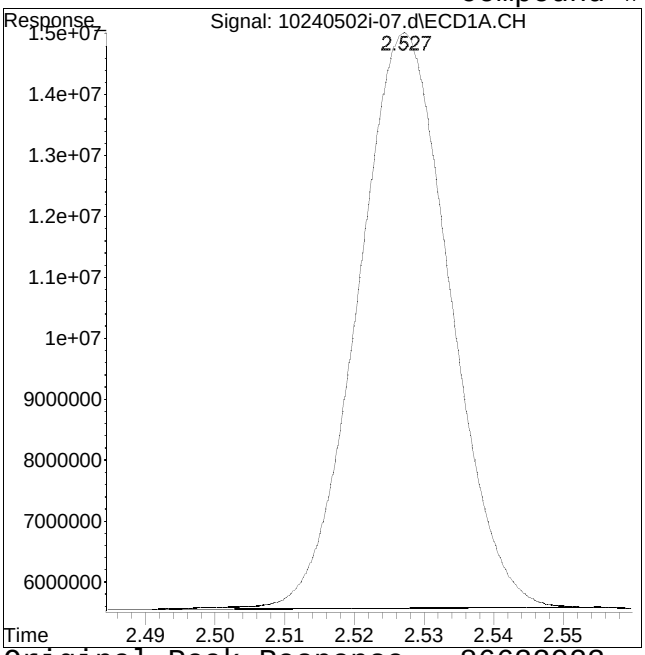
Manual Peak Response = 26777490 M4

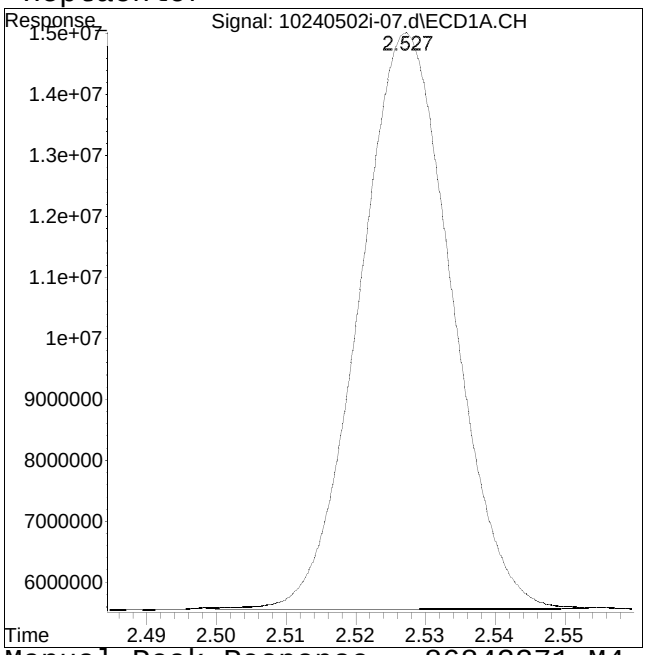
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-07.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 4:53 pm Instrument : Pest 10
Sample : il5pest,42e,,pp 11402 L0.0Quant Date : 5/7/2024 4:34 pm

Compound #8: Heptachlor



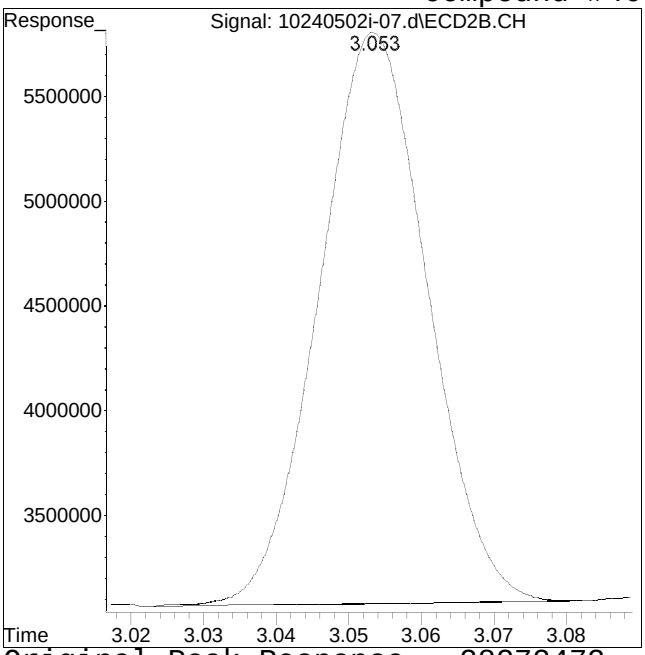


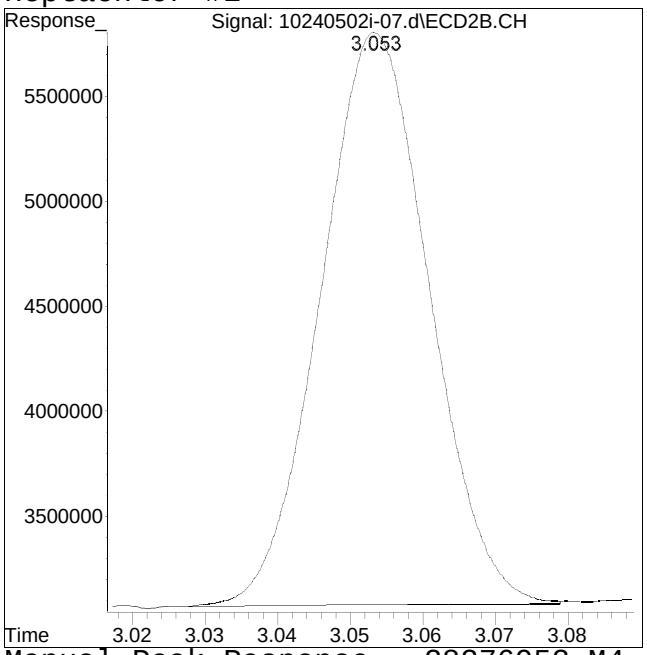
Original Peak Response = 86632923 Manual Peak Response = 86843371 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-07.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 4:53 pm Instrument : Pest 10
Sample : il5pest,42e,,pp 11402 L0.0Quant Date : 5/7/2024 4:34 pm

Compound #46: Heptachlor #2



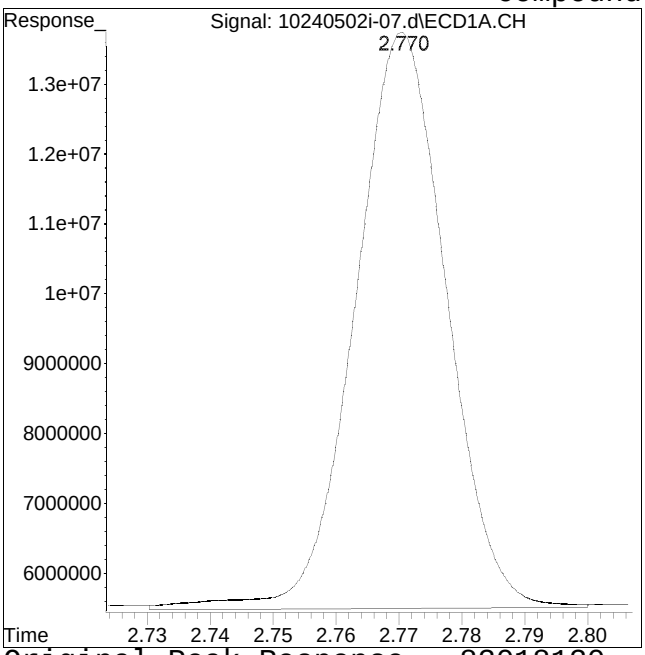


Original Peak Response = 28272472 Manual Peak Response = 28276952 M4
M4 = Poor automated baseline construction.

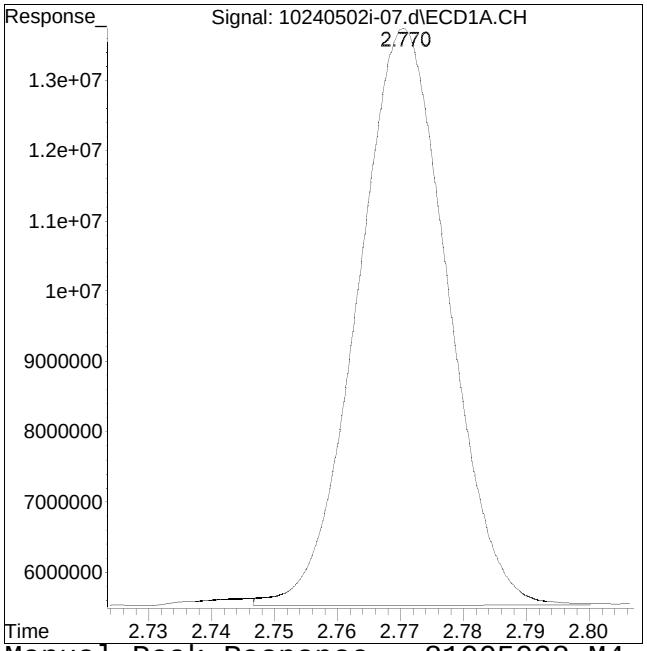
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-07.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 4:53 pm Instrument : Pest 10
Sample : il5pest,42e,,pp 11402 L0.0Quant Date : 5/7/2024 4:34 pm

Compound #9: Aldrin



Original Peak Response = 83018130



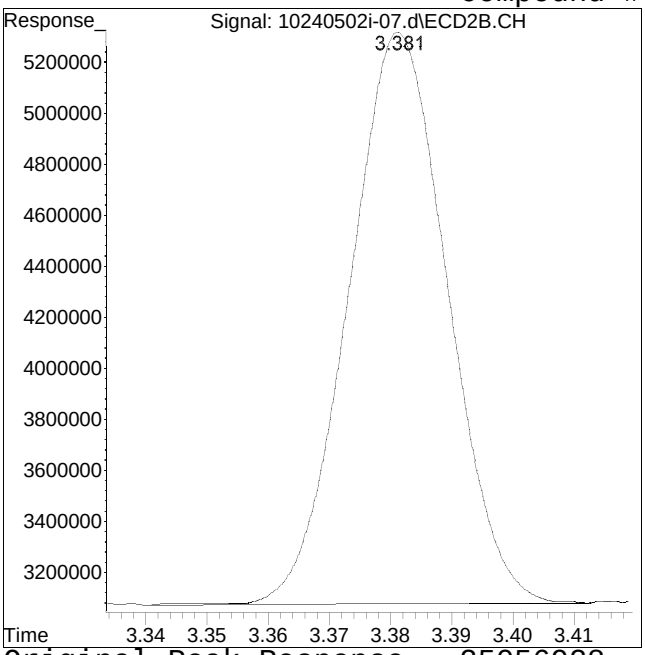
Manual Peak Response = 81005038 M4

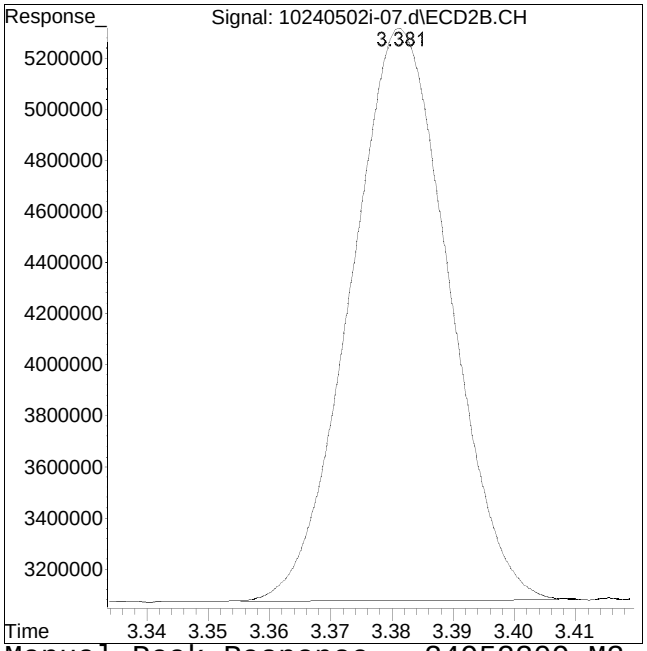
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-07.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 4:53 pm Instrument : Pest 10
Sample : il5pest,42e,,pp 11402 L0.0Quant Date : 5/7/2024 4:34 pm

Compound #47: Aldrin #2



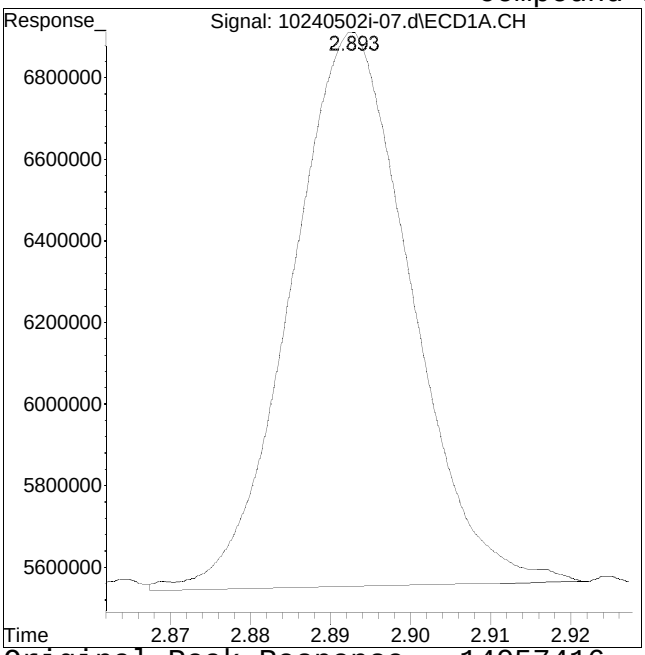


Original Peak Response = 25056928 Manual Peak Response = 24952309 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

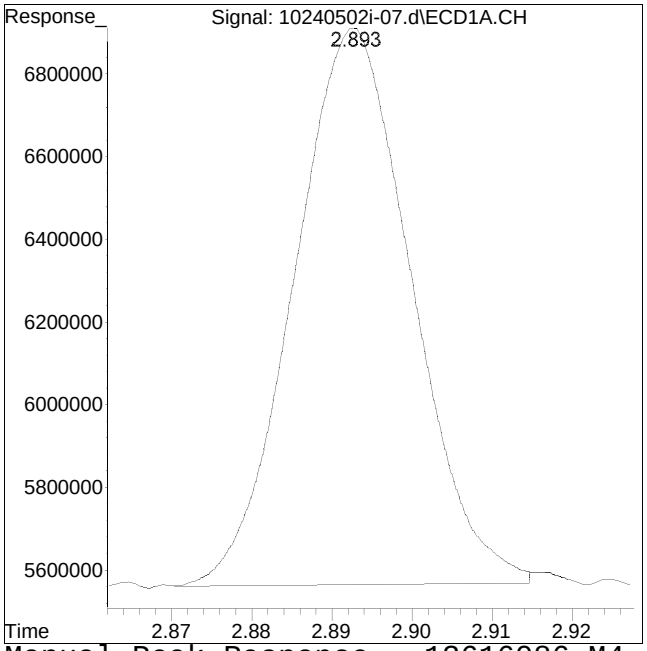
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-07.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 4:53 pm Instrument : Pest 10
Sample : il5pest,42e,,pp 11402 L0.0Quant Date : 5/7/2024 4:34 pm

Compound #10: Alachlor



Original Peak Response = 14057416



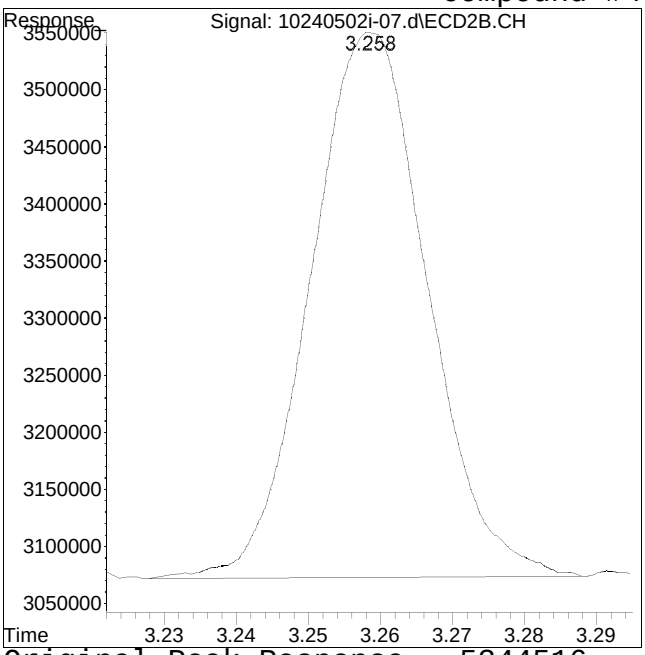
Manual Peak Response = 13616086 M4

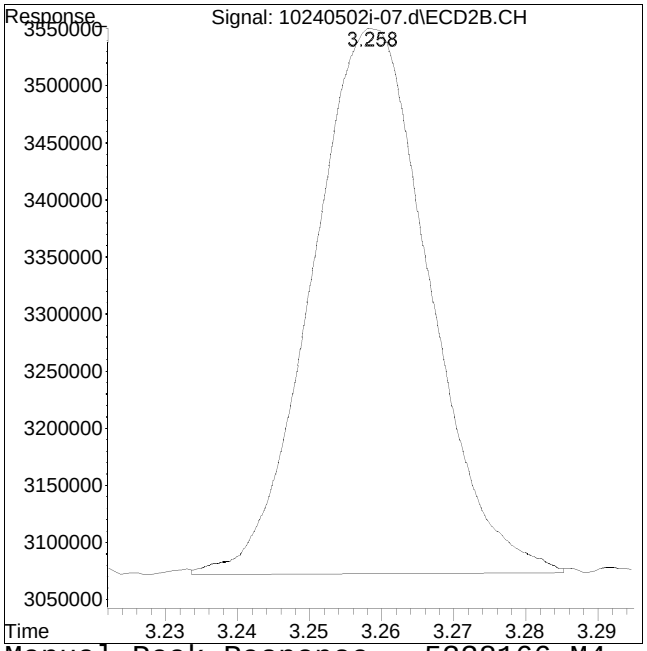
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-07.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 4:53 pm Instrument : Pest 10
Sample : il5pest,42e,,pp 11402 L0.0Quant Date : 5/7/2024 4:34 pm

Compound #48: Alachlor #2





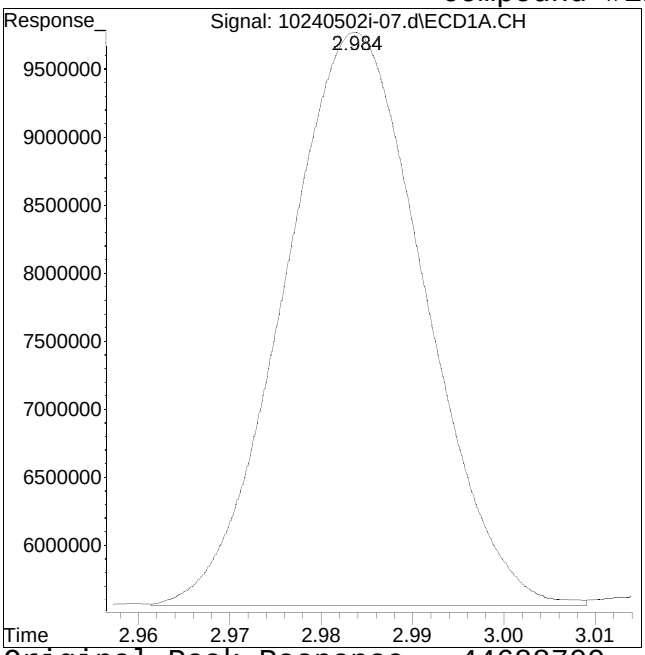
Original Peak Response = 5344516 Manual Peak Response = 5338166 M4
M4 = Poor automated baseline construction.

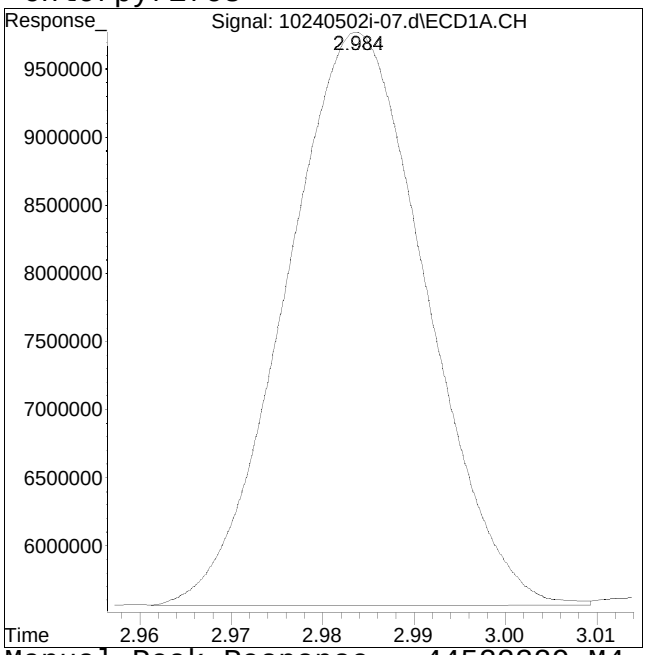
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502Q
Data File : 10240502i-07.d
Date Inj'd : 5/2/2024 4:53 pm
Sample : il5pest,42e,,pp 11402 L0.0

Method : pest10_2024_05_02_ugL_ic
Operator : PEST10:jag
Instrument : Pest 10
Quant Date : 5/7/2024 4:34 pm

Compound #11: Chlorpyrifos



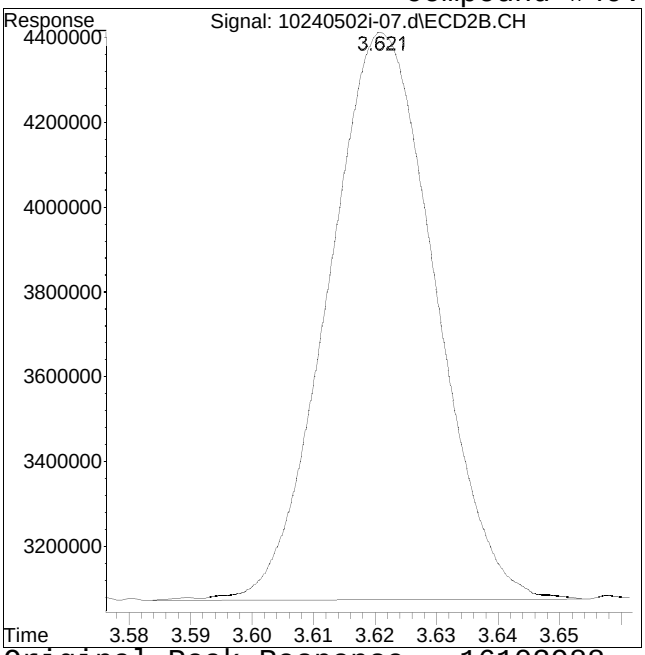


Original Peak Response = 44688700 Manual Peak Response = 44522329 M4
M4 = Poor automated baseline construction.

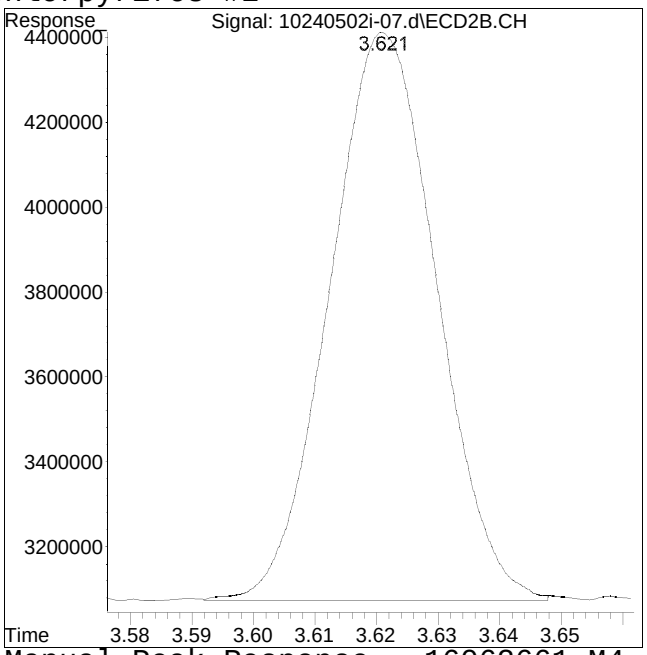
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-07.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 4:53 pm Instrument : Pest 10
Sample : il5pest,42e,,pp 11402 L0.0Quant Date : 5/7/2024 4:34 pm

Compound #49: Chlorpyrifos #2



Original Peak Response = 16103988



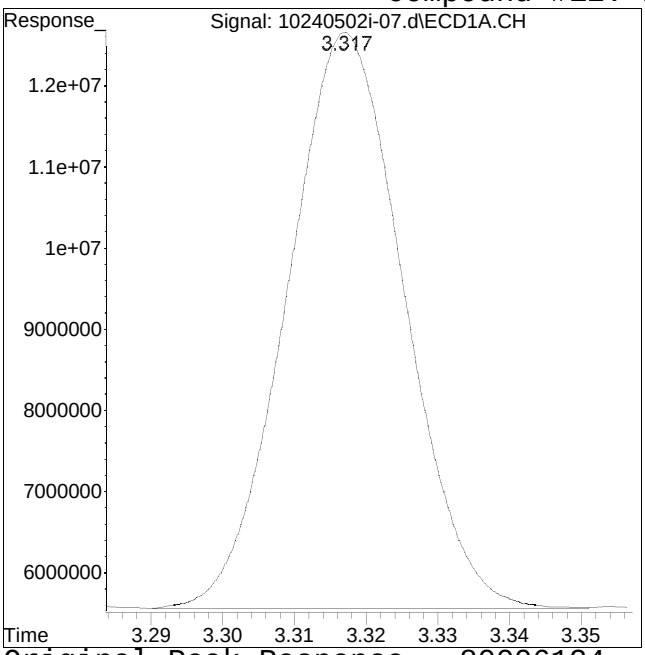
Manual Peak Response = 16062661 M4

M4 = Poor automated baseline construction.

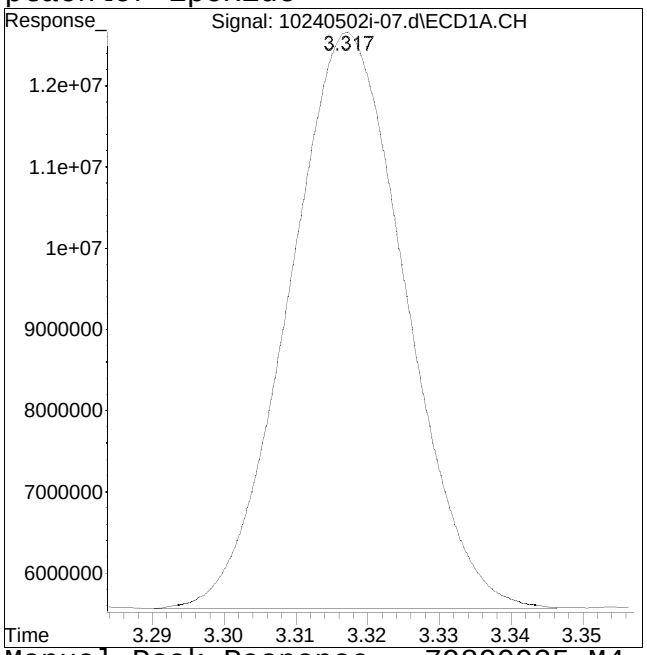
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-07.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 4:53 pm Instrument : Pest 10
Sample : il5pest,42e,,pp 11402 L0.0Quant Date : 5/7/2024 4:34 pm

Compound #12: Heptachlor Epoxide



Original Peak Response = 80006124



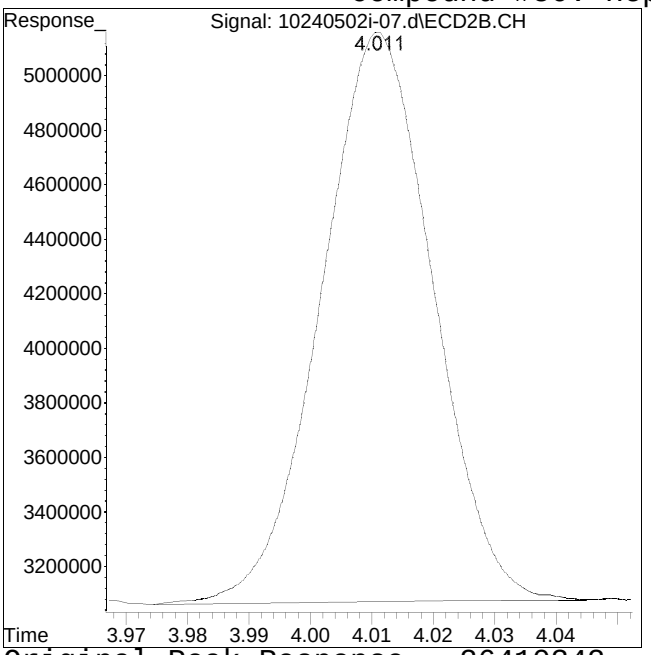
Manual Peak Response = 79890935 M4

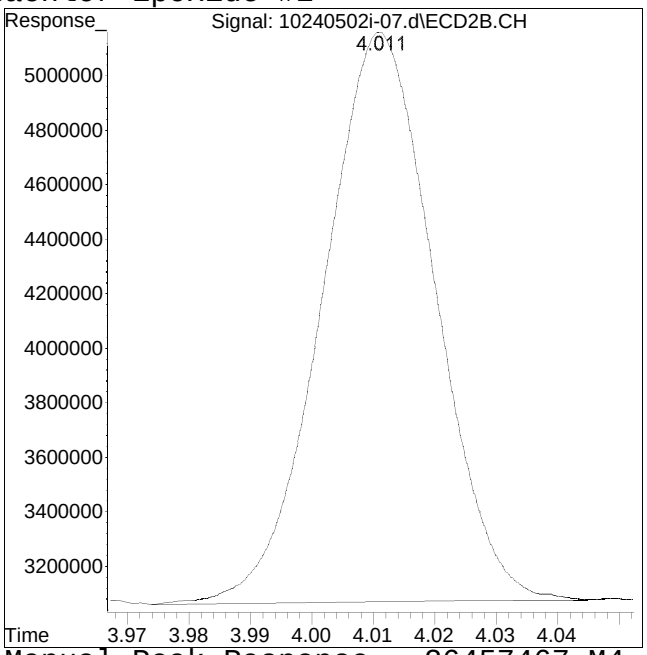
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-07.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 4:53 pm Instrument : Pest 10
Sample : il5pest,42e,,pp 11402 L0.0Quant Date : 5/7/2024 4:34 pm

Compound #50: Heptachlor Epoxide #2





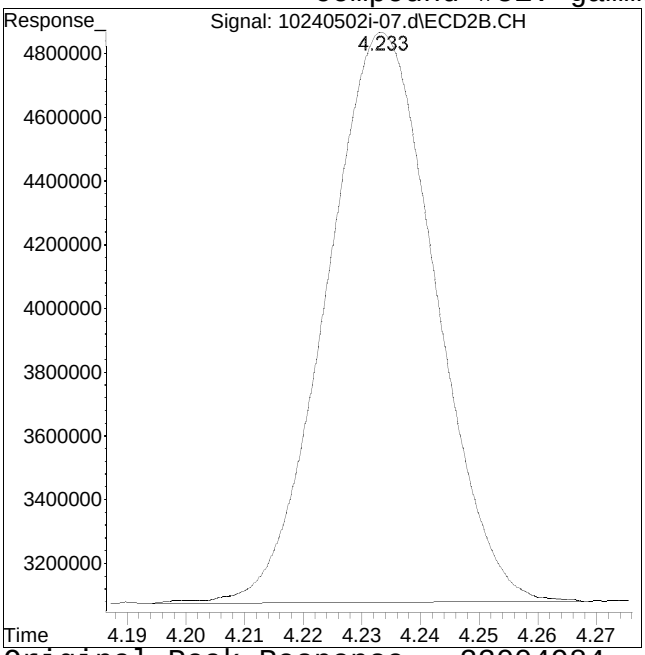
Original Peak Response = 26410342 Manual Peak Response = 26457467 M4
M4 = Poor automated baseline construction.

Manual Integration Report

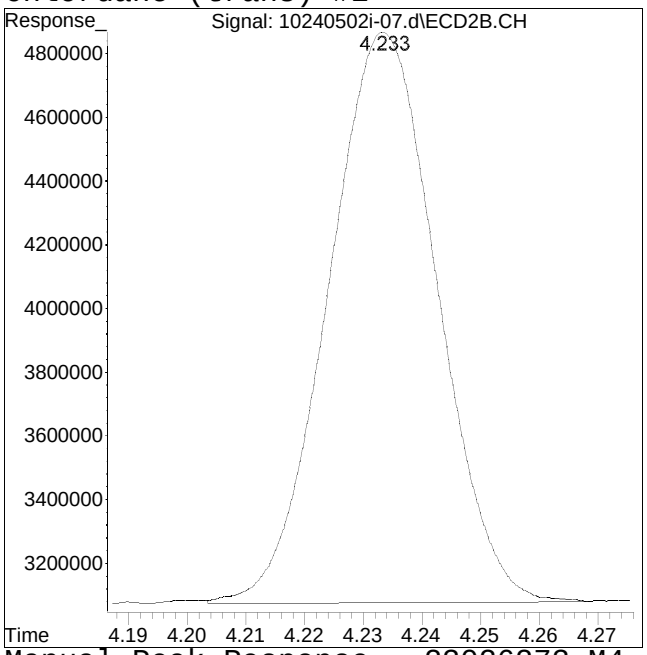
Data Path : I:\PEST\Pest10\2024\240502Q
Data File : 10240502i-07.d
Date Inj'd : 5/2/2024 4:53 pm
Sample : il5pest,42e,,pp 11402 L0.0

Method : pest10_2024_05_02_ugL_ic
Operator : PEST10:jag
Instrument : Pest 10
Quant Date : 5/7/2024 4:34 pm

Compound #51: gamma-Chlordane (trans) #2



Original Peak Response = 23004984



Manual Peak Response = 23026273 M4

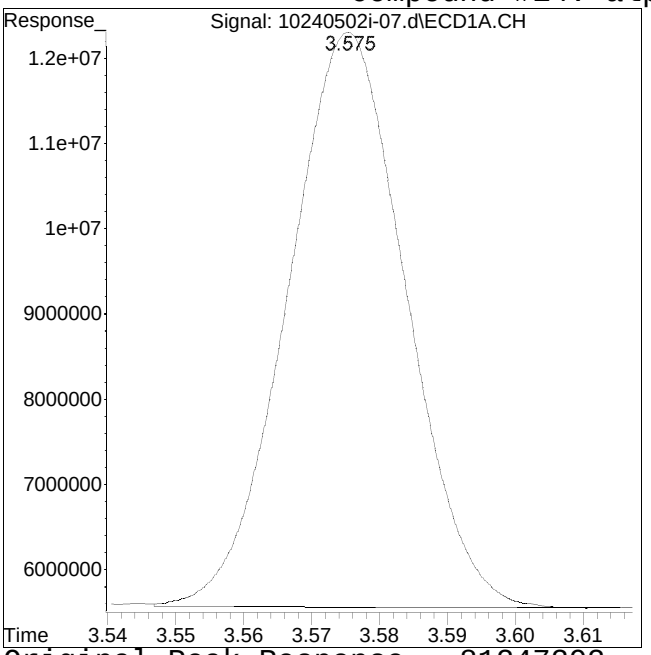
M4 = Poor automated baseline construction.

Manual Integration Report

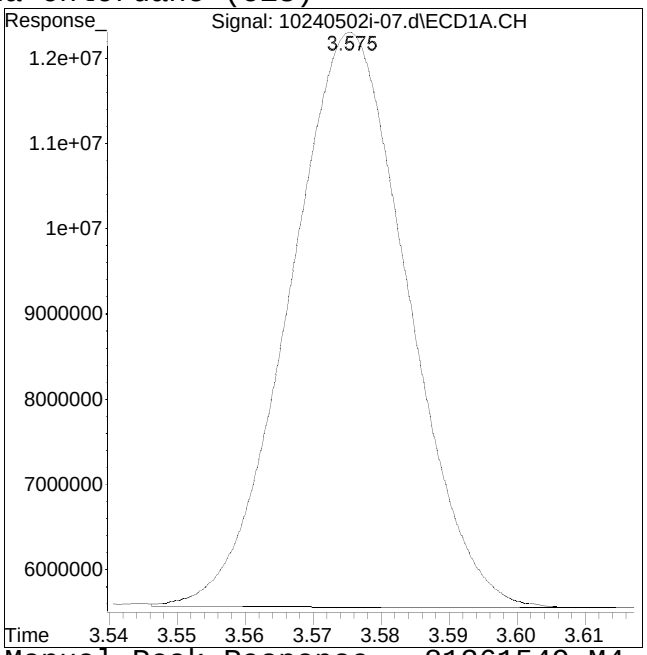
Data Path : I:\PEST\Pest10\2024\240502Q
Data File : 10240502i-07.d
Date Inj'd : 5/2/2024 4:53 pm
Sample : il5pest,42e,,pp 11402 L0.0

Method : pest10_2024_05_02_ugL_ic
Operator : PEST10:jag
Instrument : Pest 10
Quant Date : 5/7/2024 4:34 pm

Compound #14: alpha-Chlordane (cis)



Original Peak Response = 81247292



Manual Peak Response = 81261549 M4

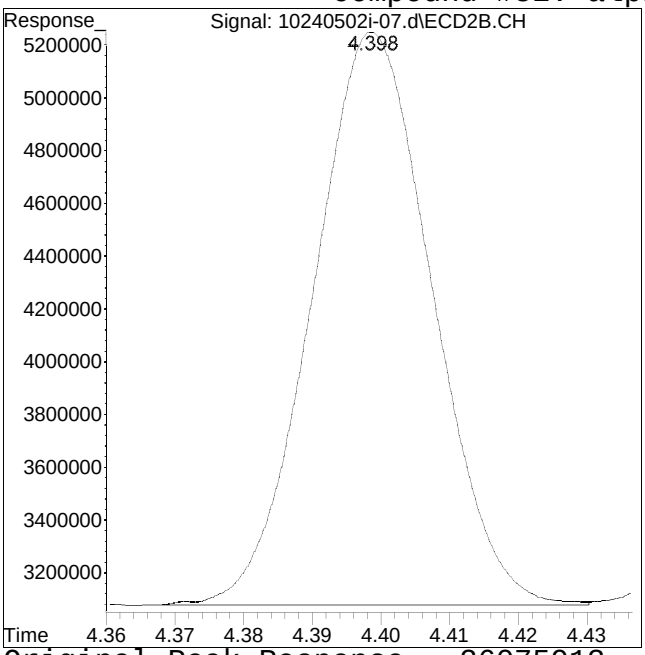
M4 = Poor automated baseline construction.

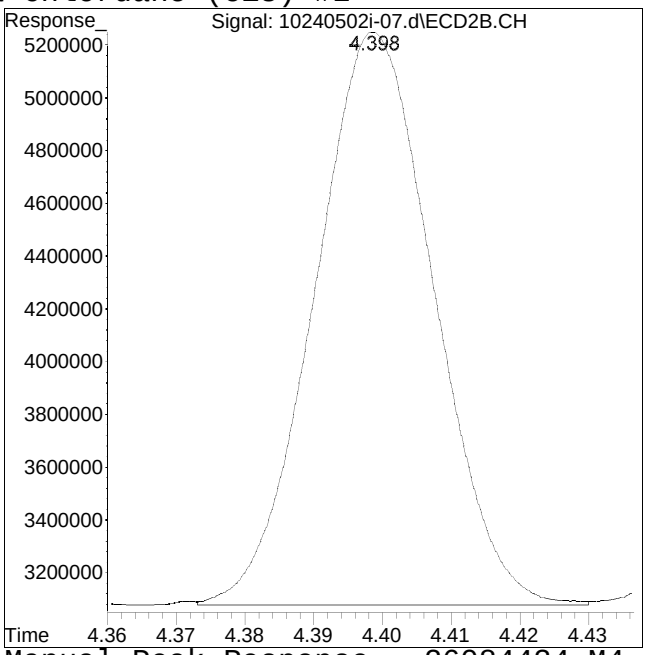
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502Q
Data File : 10240502i-07.d
Date Inj'd : 5/2/2024 4:53 pm
Sample : il5pest,42e,,pp 11402 L0.0

Method : pest10_2024_05_02_ugL_ic
Operator : PEST10:jag
Instrument : Pest 10
Quant Date : 5/7/2024 4:34 pm

Compound #52: alpha-Chlordane (cis) #2



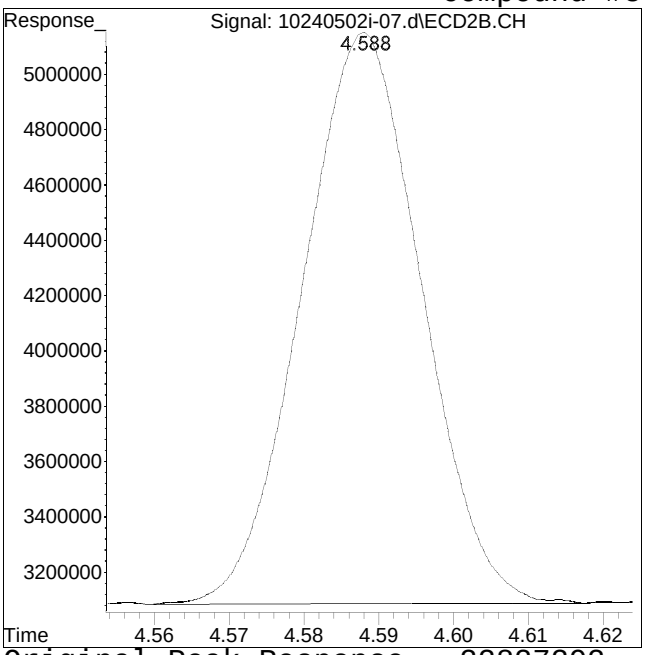


Original Peak Response = 26075913 Manual Peak Response = 26084434 M4
M4 = Poor automated baseline construction.

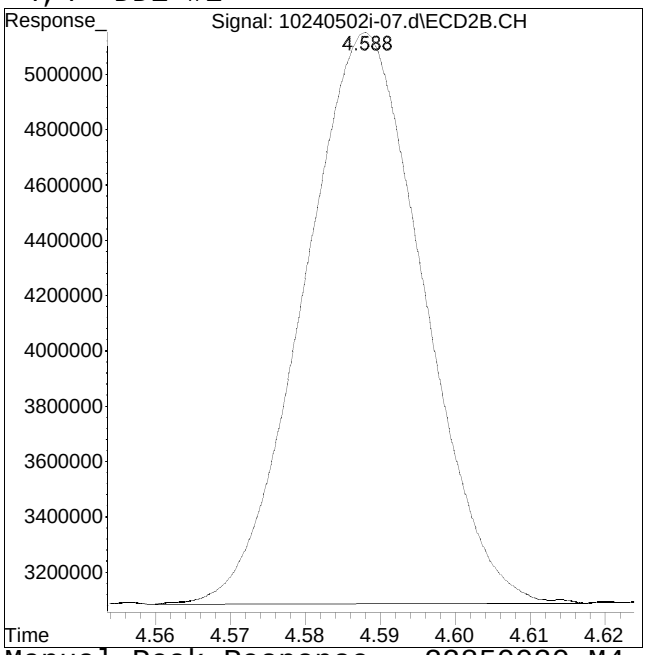
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-07.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 4:53 pm Instrument : Pest 10
Sample : il5pest,42e,,pp 11402 L0.0Quant Date : 5/7/2024 4:34 pm

Compound #53: 4,4'-DDE #2



Original Peak Response = 22827292

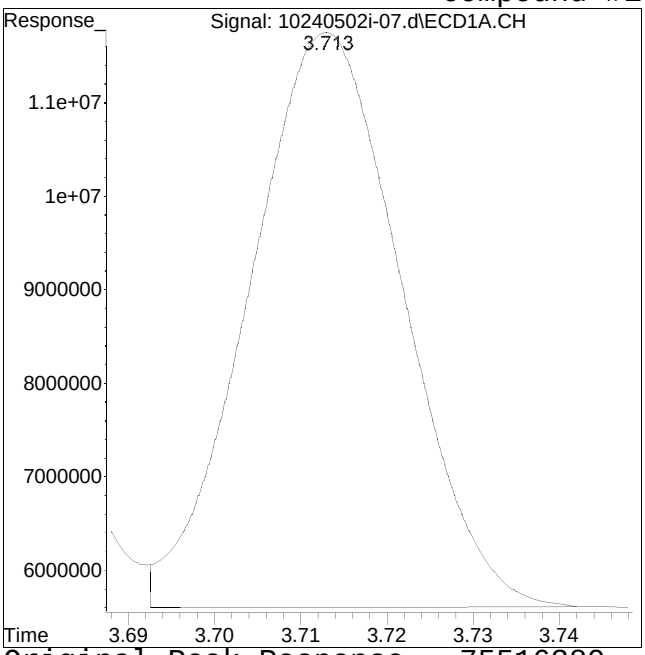


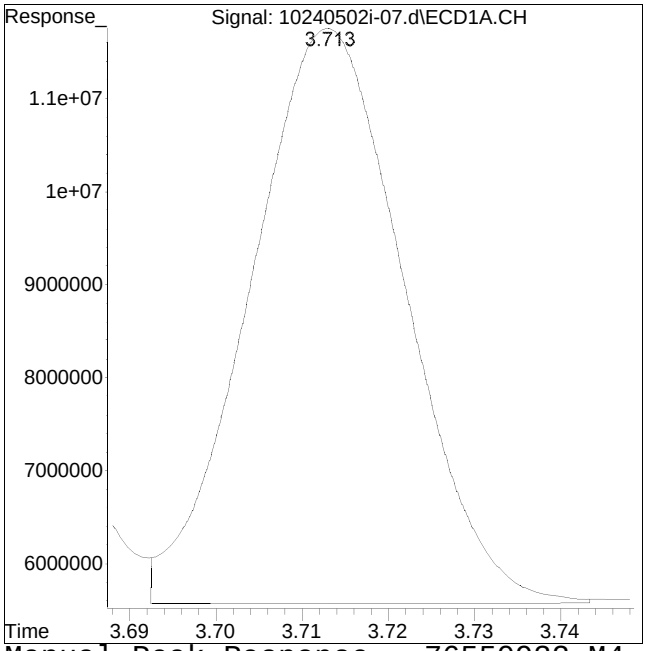
Manual Peak Response = 22850030 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-07.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 4:53 pm Instrument : Pest 10
Sample : il5pest,42e,,pp 11402 L0.0Quant Date : 5/7/2024 4:34 pm

Compound #16: Endosulfan I



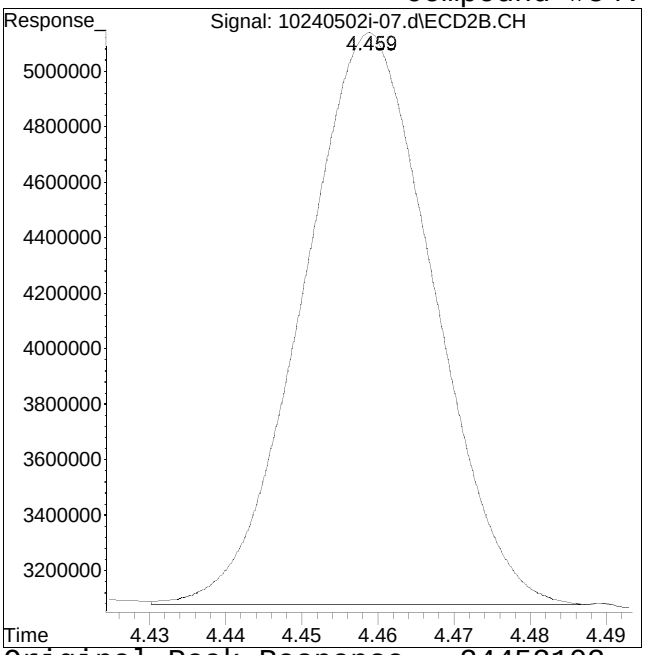


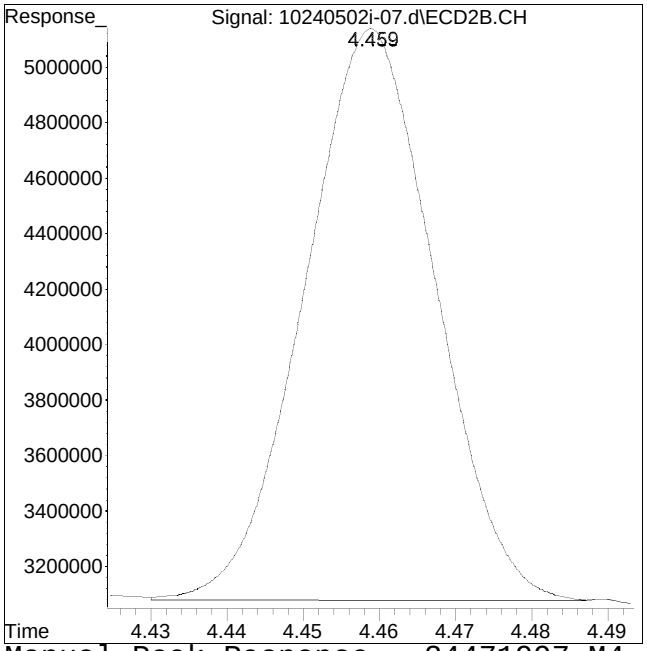
Original Peak Response = 75516380 Manual Peak Response = 76550932 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-07.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 4:53 pm Instrument : Pest 10
Sample : il5pest,42e,,pp 11402 L0.0Quant Date : 5/7/2024 4:34 pm

Compound #54: Endosulfan I #2



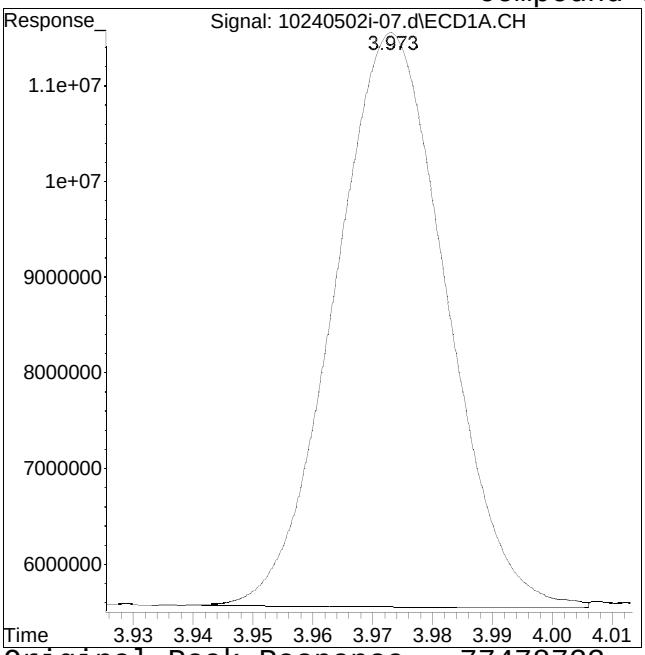


Original Peak Response = 24452103 Manual Peak Response = 24471997 M4
M4 = Poor automated baseline construction.

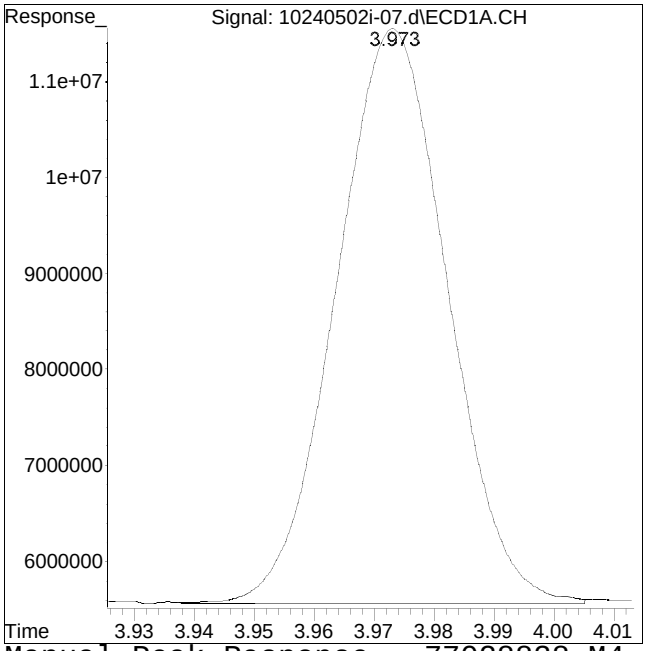
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-07.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 4:53 pm Instrument : Pest 10
Sample : il5pest,42e,,pp 11402 L0.0Quant Date : 5/7/2024 4:34 pm

Compound #17: Dieldrin



Original Peak Response = 77478733



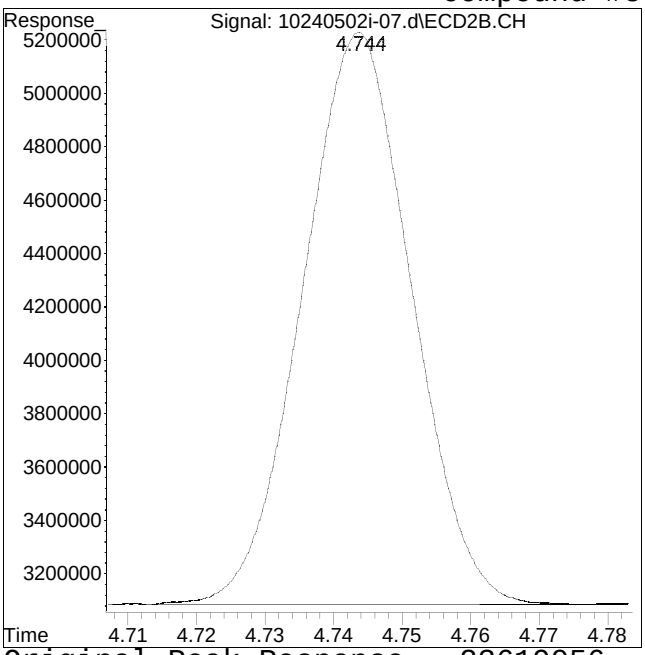
Manual Peak Response = 77028838 M4

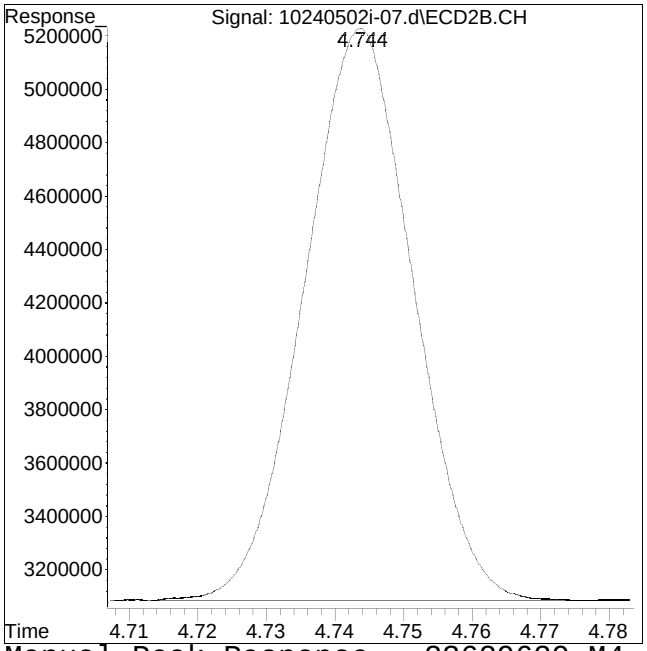
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-07.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 4:53 pm Instrument : Pest 10
Sample : il5pest,42e,,pp 11402 L0.0Quant Date : 5/7/2024 4:34 pm

Compound #55: Dieldrin #2



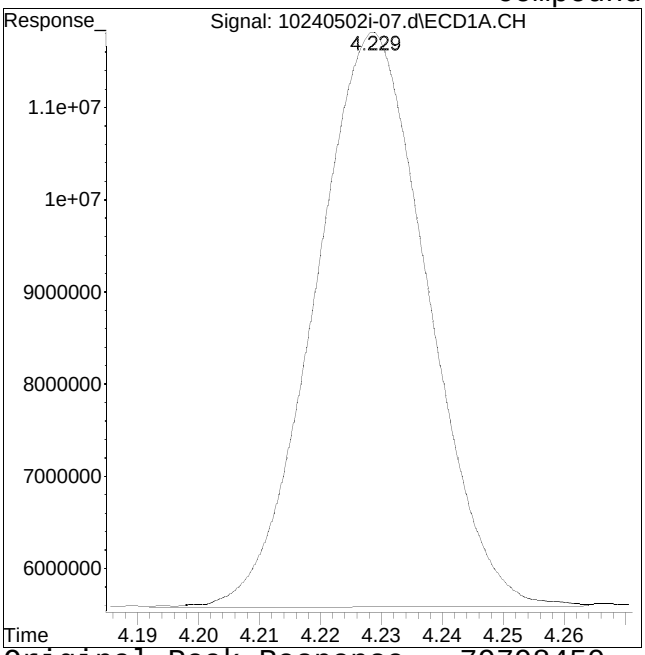


Original Peak Response = 23619056 Manual Peak Response = 23629629 M4
M4 = Poor automated baseline construction.

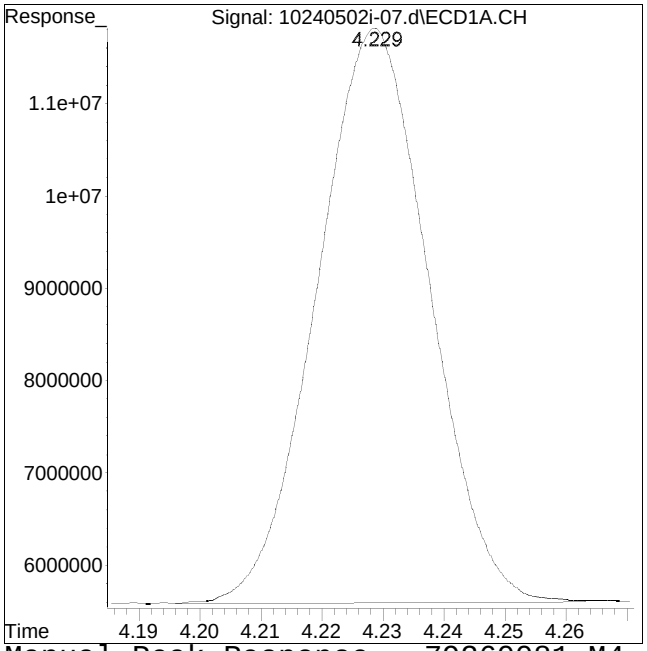
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-07.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 4:53 pm Instrument : Pest 10
Sample : il5pest,42e,,pp 11402 L0.0Quant Date : 5/7/2024 4:34 pm

Compound #18: Endrin



Original Peak Response = 79798450



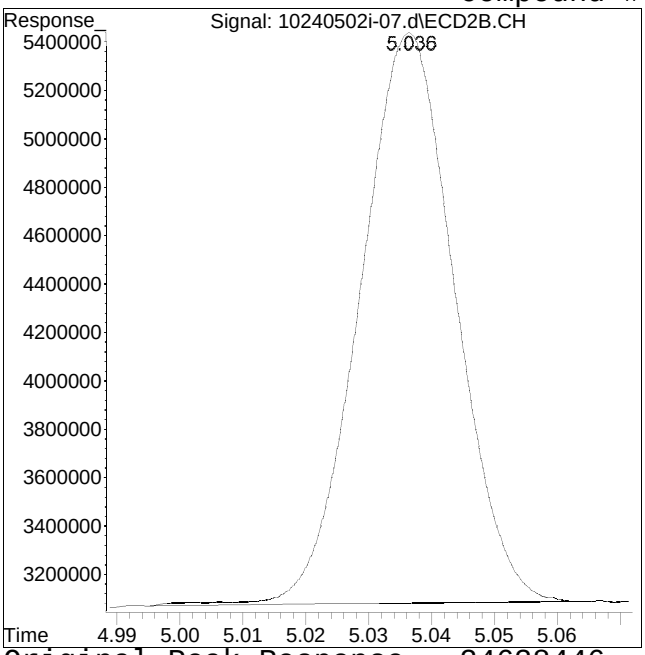
Manual Peak Response = 79260081 M4

M4 = Poor automated baseline construction.

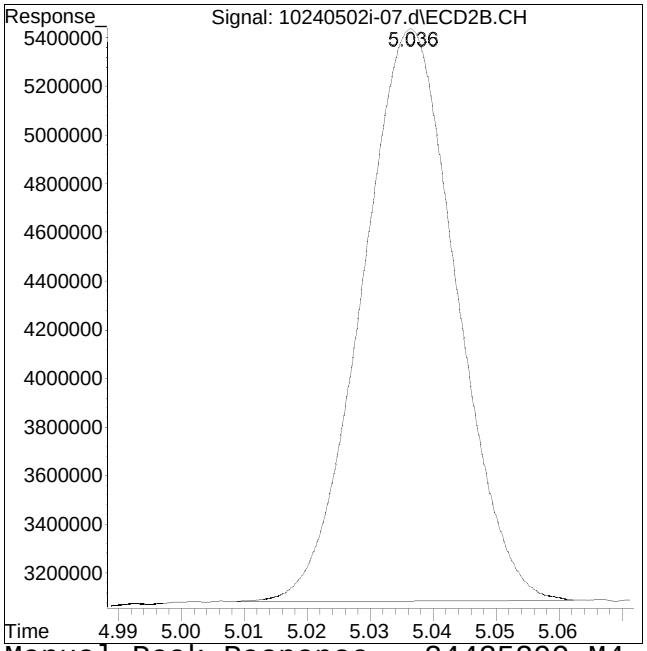
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-07.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 4:53 pm Instrument : Pest 10
Sample : il5pest,42e,,pp 11402 L0.0Quant Date : 5/7/2024 4:34 pm

Compound #56: Endrin #2



Original Peak Response = 24638446



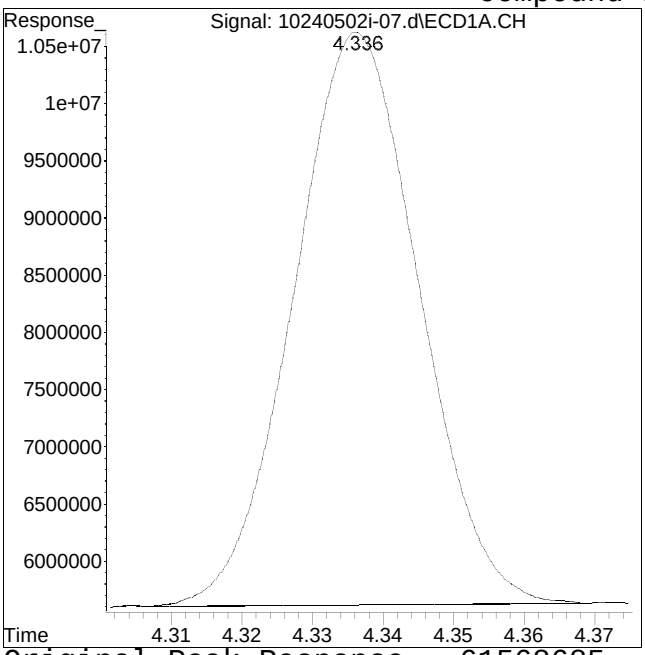
Manual Peak Response = 24435299 M4

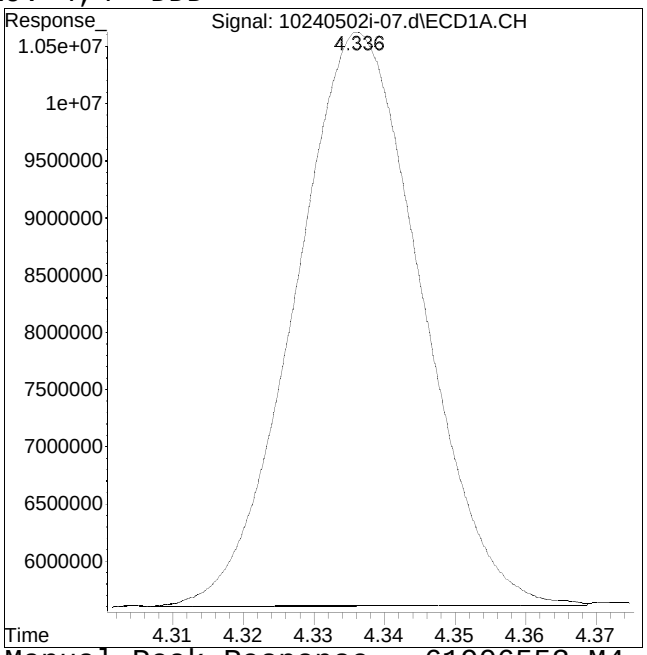
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-07.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 4:53 pm Instrument : Pest 10
Sample : il5pest,42e,,pp 11402 L0.0Quant Date : 5/7/2024 4:34 pm

Compound #19: 4,4'-DDD



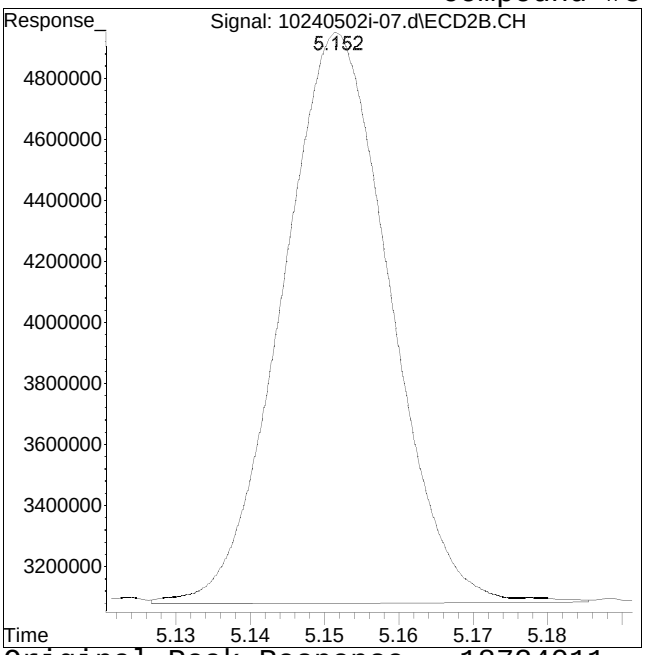


Original Peak Response = 61568685 Manual Peak Response = 61906553 M4
M4 = Poor automated baseline construction.

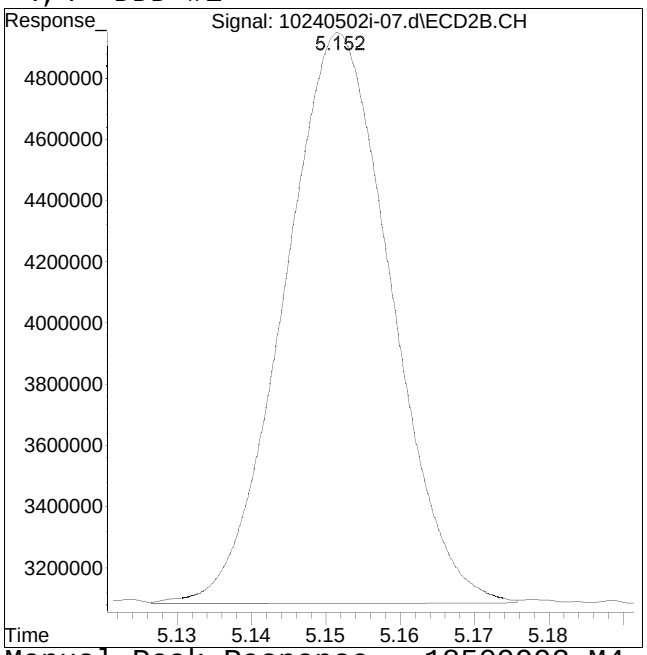
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-07.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 4:53 pm Instrument : Pest 10
Sample : il5pest,42e,,pp 11402 L0.0Quant Date : 5/7/2024 4:34 pm

Compound #57: 4,4'-DDD #2



Original Peak Response = 18724011

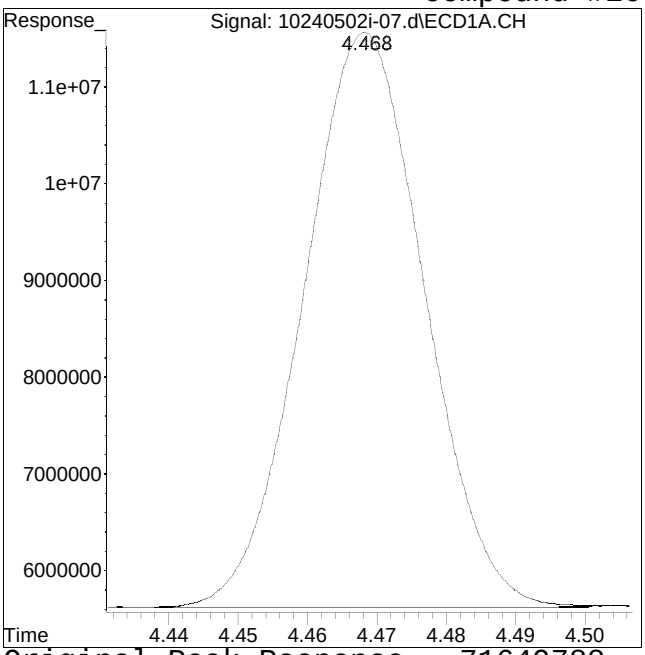


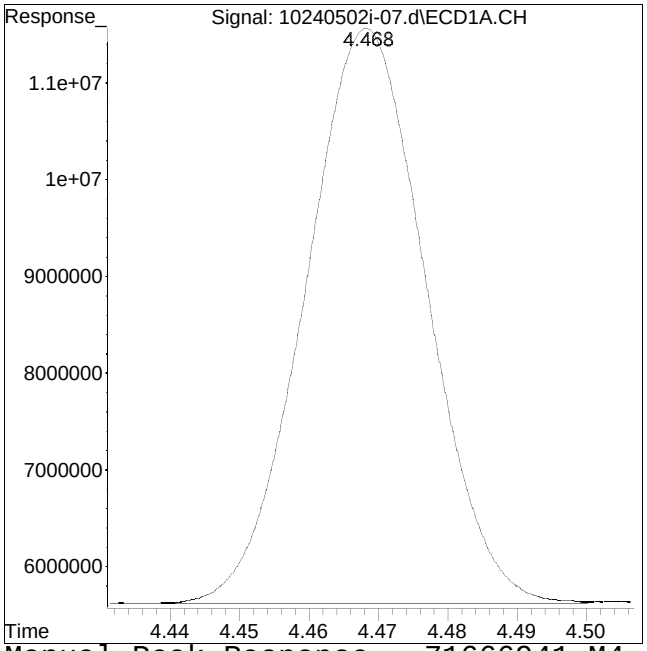
Manual Peak Response = 18509992 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-07.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 4:53 pm Instrument : Pest 10
Sample : il5pest,42e,,pp 11402 L0.0Quant Date : 5/7/2024 4:34 pm

Compound #20: Endosulfan II



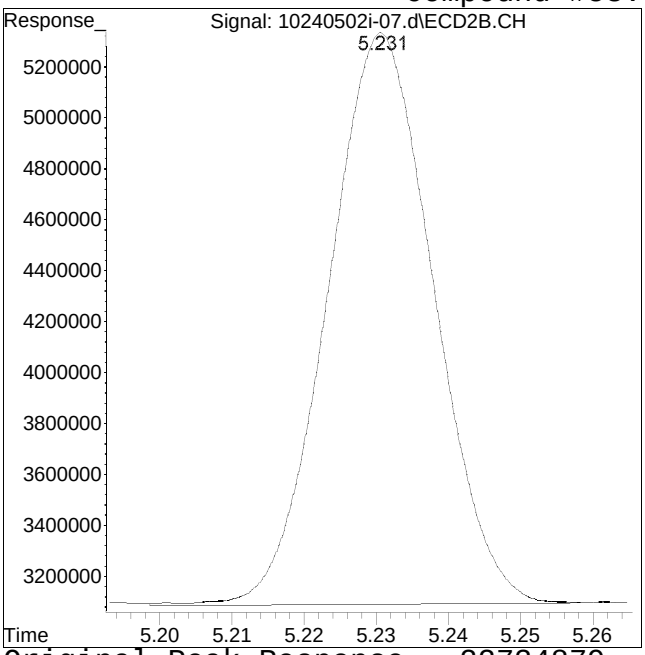


Original Peak Response = 71649788 Manual Peak Response = 71666941 M4
M4 = Poor automated baseline construction.

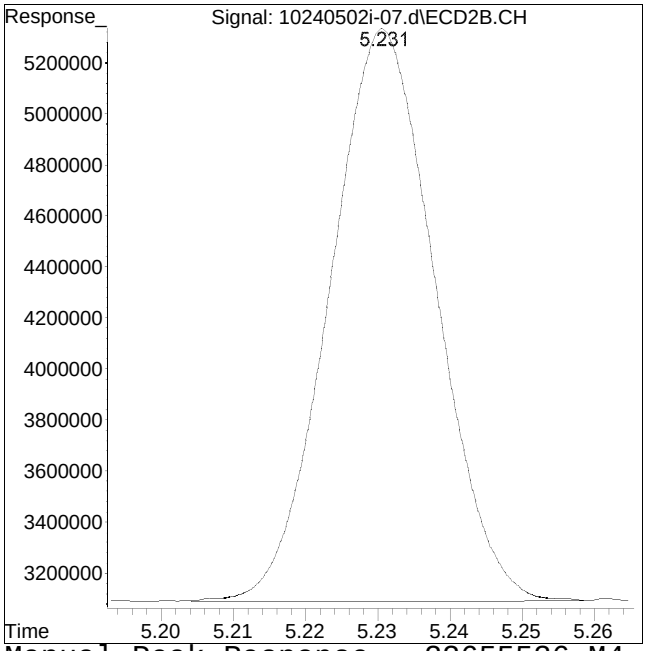
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-07.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 4:53 pm Instrument : Pest 10
Sample : il5pest,42e,,pp 11402 L0.0Quant Date : 5/7/2024 4:34 pm

Compound #58: Endosulfan II #2



Original Peak Response = 22734879



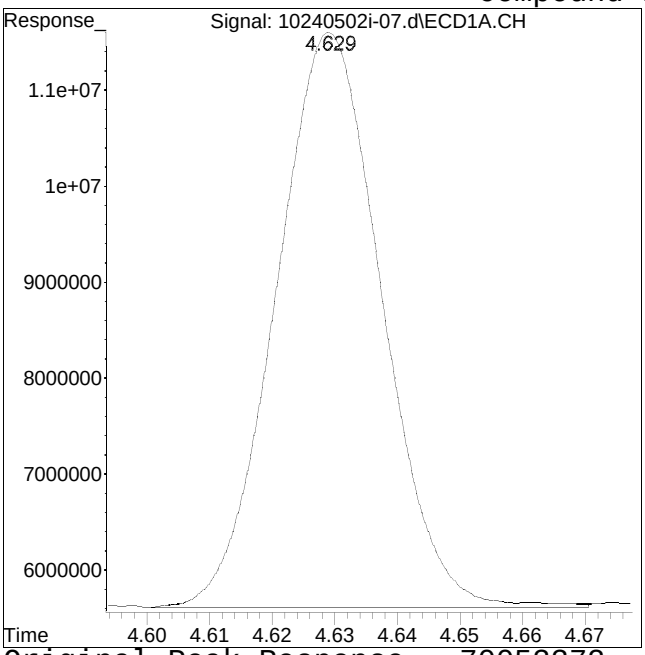
Manual Peak Response = 22655536 M4

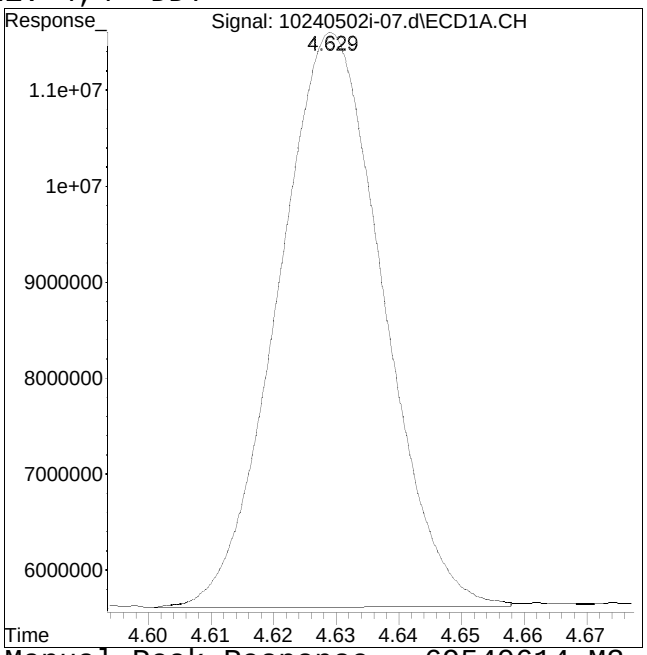
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-07.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 4:53 pm Instrument : Pest 10
Sample : il5pest,42e,,pp 11402 L0.0Quant Date : 5/7/2024 4:34 pm

Compound #21: 4,4'-DDT



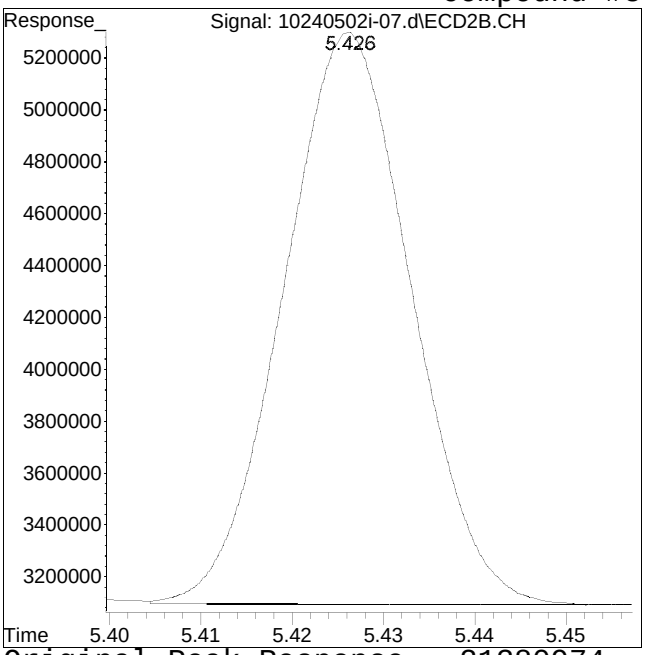


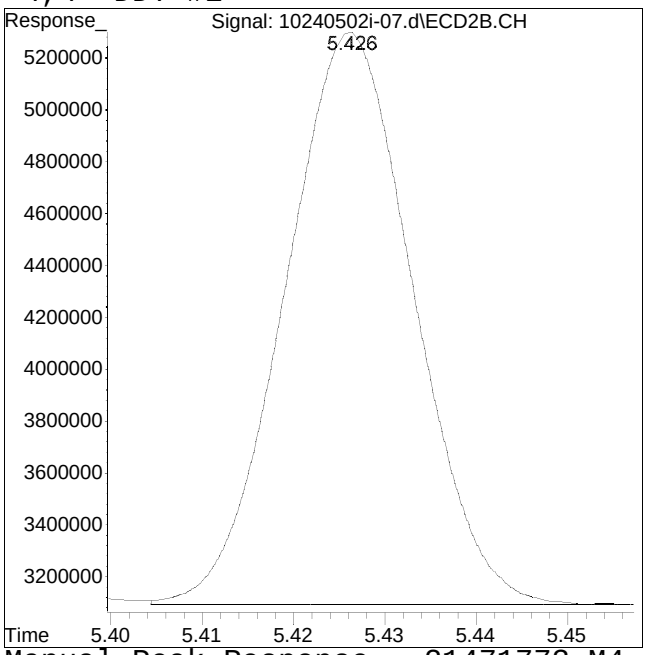
Original Peak Response = 70053372 Manual Peak Response = 69540614 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-07.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 4:53 pm Instrument : Pest 10
Sample : il5pest,42e,,pp 11402 L0.0Quant Date : 5/7/2024 4:34 pm

Compound #59: 4,4'-DDT #2



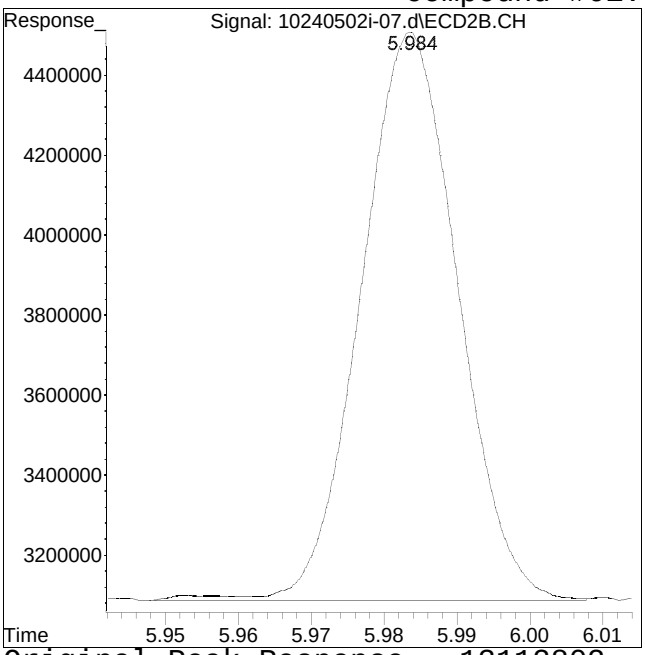


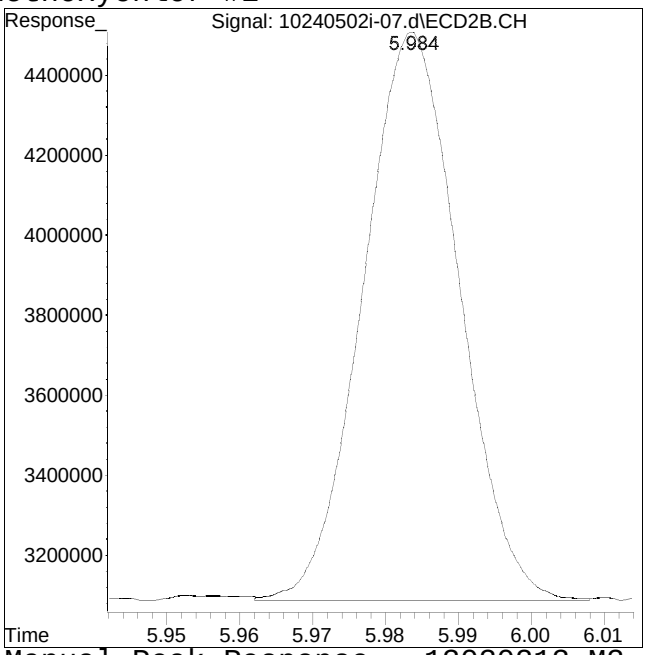
Original Peak Response = 21380974 Manual Peak Response = 21471773 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-07.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 4:53 pm Instrument : Pest 10
Sample : il5pest,42e,,pp 11402 L0.0Quant Date : 5/7/2024 4:34 pm

Compound #61: Methoxychlor #2



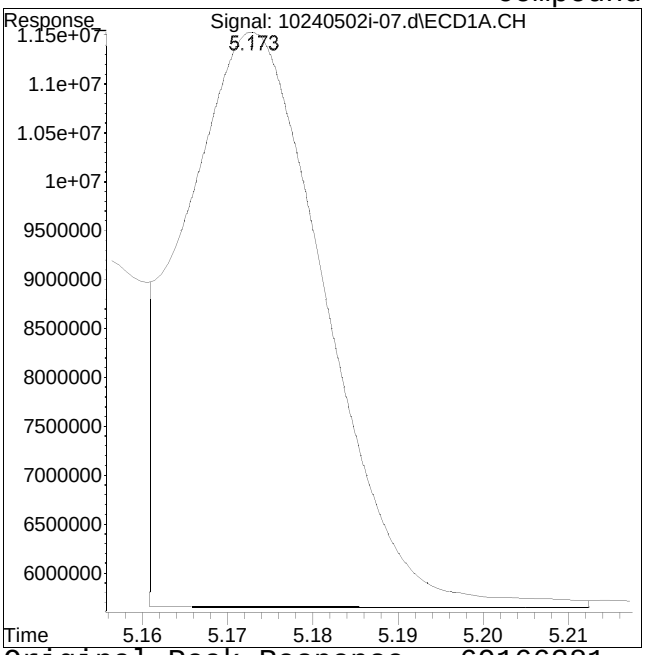


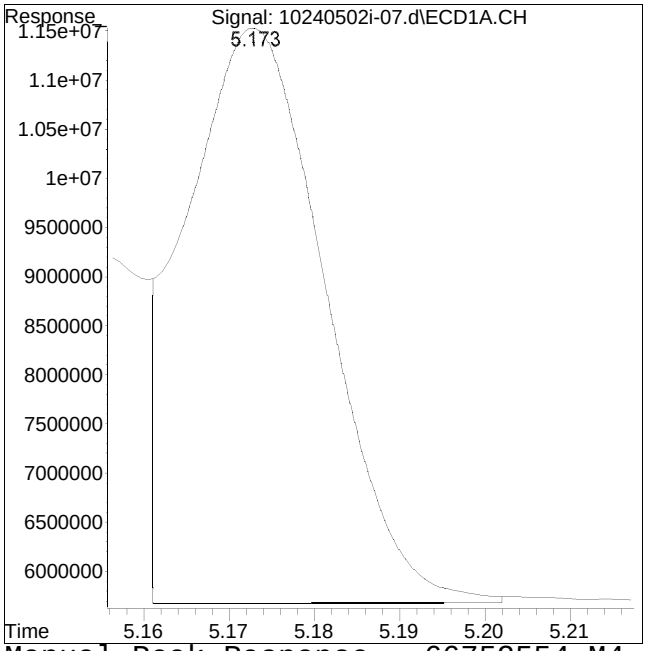
Original Peak Response = 13112802 Manual Peak Response = 13030213 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-07.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 4:53 pm Instrument : Pest 10
Sample : il5pest,42e,,pp 11402 L0.0Quant Date : 5/7/2024 4:34 pm

Compound #24: Mirex



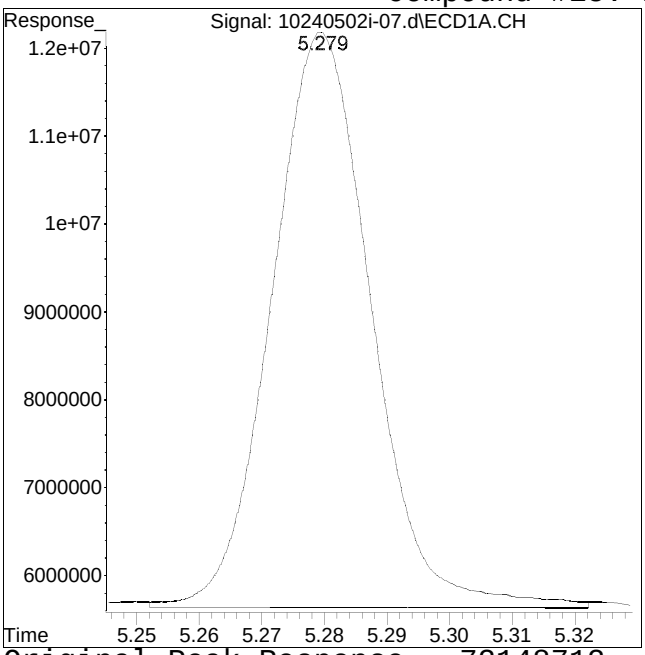


Original Peak Response = 69166381 Manual Peak Response = 66752554 M4
M4 = Poor automated baseline construction.

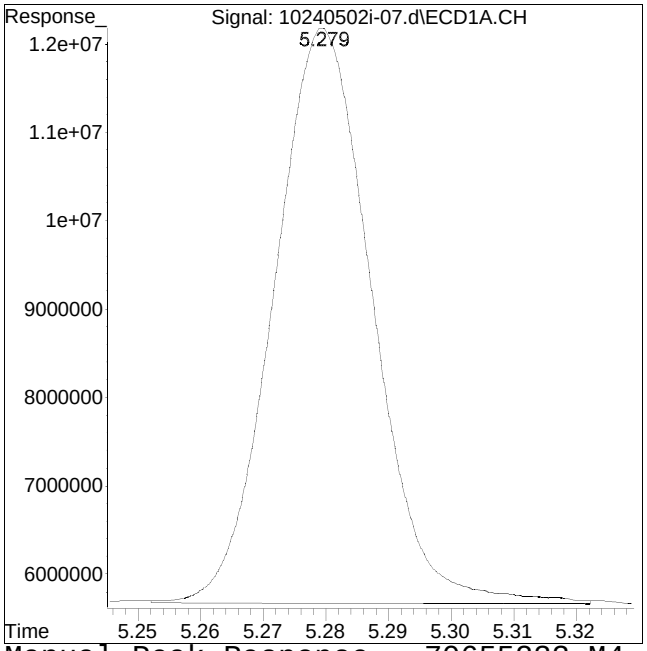
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-07.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 4:53 pm Instrument : Pest 10
Sample : il5pest,42e,,pp 11402 L0.0Quant Date : 5/7/2024 4:34 pm

Compound #25: Endosulfan Sulfate



Original Peak Response = 72148712



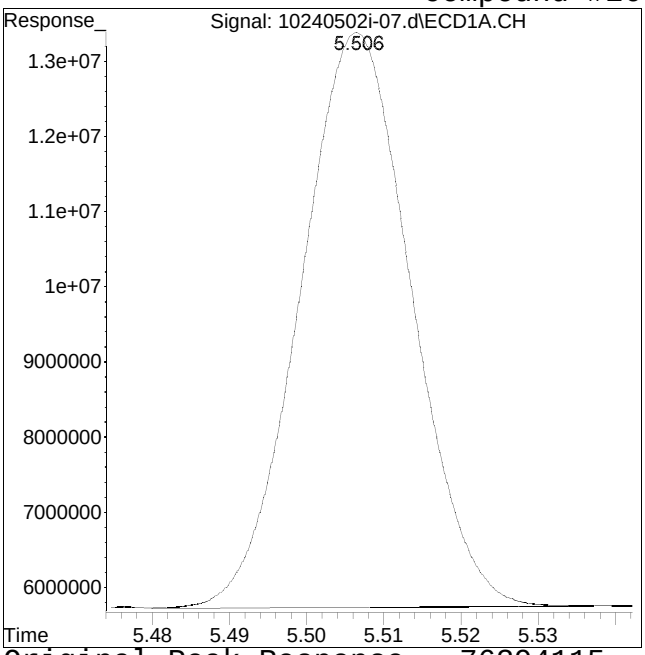
Manual Peak Response = 70655233 M4

M4 = Poor automated baseline construction.

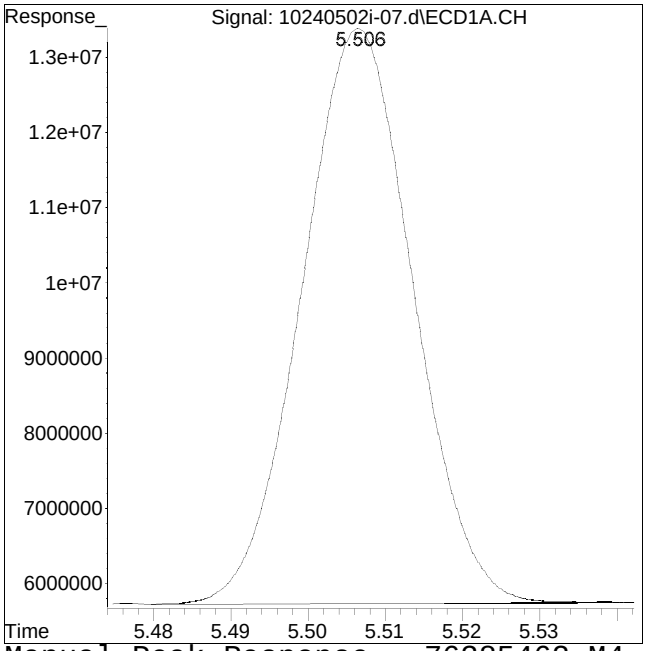
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-07.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 4:53 pm Instrument : Pest 10
Sample : il5pest,42e,,pp 11402 L0.0Quant Date : 5/7/2024 4:34 pm

Compound #26: Endrin Ketone



Original Peak Response = 76394115



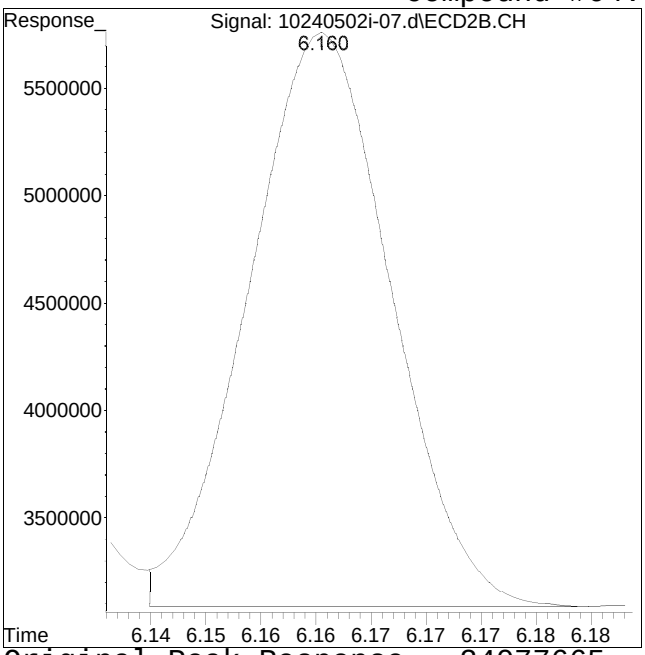
Manual Peak Response = 76385462 M4

M4 = Poor automated baseline construction.

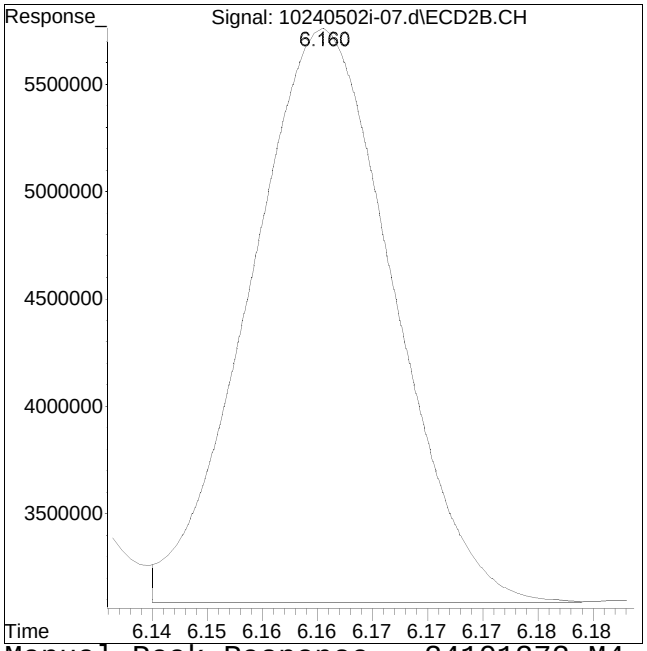
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-07.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 4:53 pm Instrument : Pest 10
Sample : il5pest,42e,,pp 11402 L0.0Quant Date : 5/7/2024 4:34 pm

Compound #64: Endrin Ketone #2



Original Peak Response = 24077665



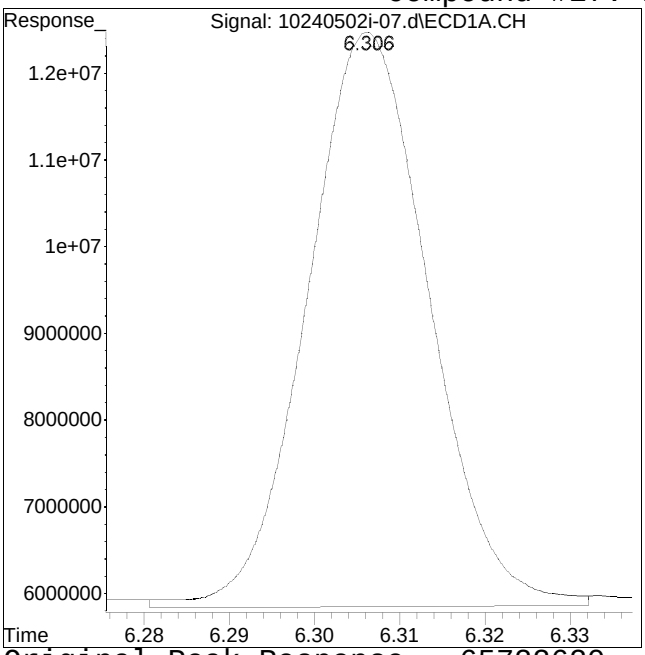
Manual Peak Response = 24101372 M4

M4 = Poor automated baseline construction.

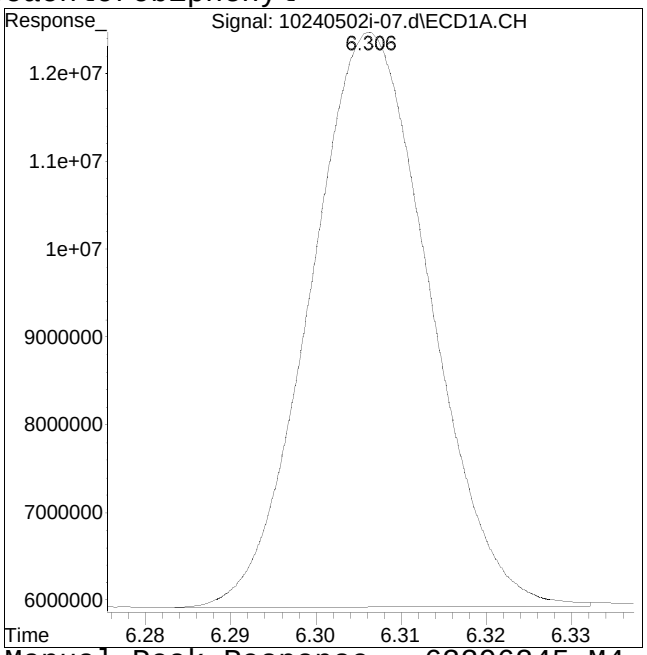
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-07.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 4:53 pm Instrument : Pest 10
Sample : il5pest,42e,,pp 11402 L0.0Quant Date : 5/7/2024 4:34 pm

Compound #27: Decachlorobiphenyl



Original Peak Response = 65722620



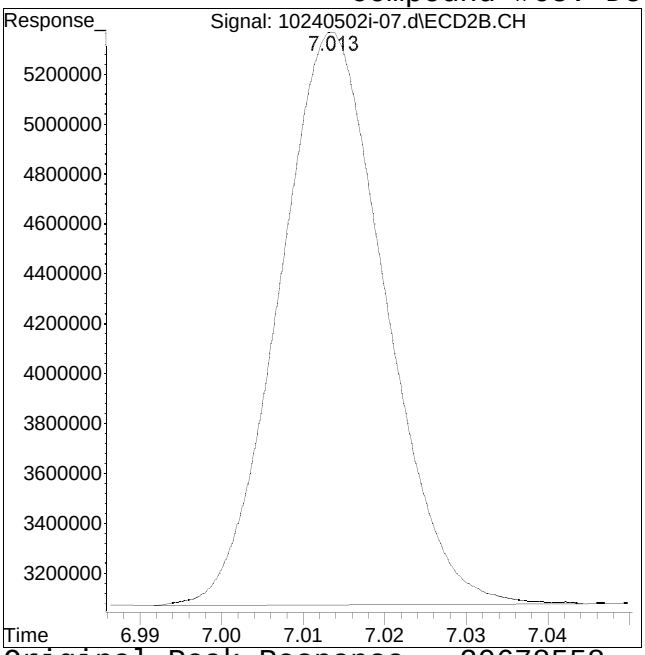
Manual Peak Response = 63296245 M4

M4 = Poor automated baseline construction.

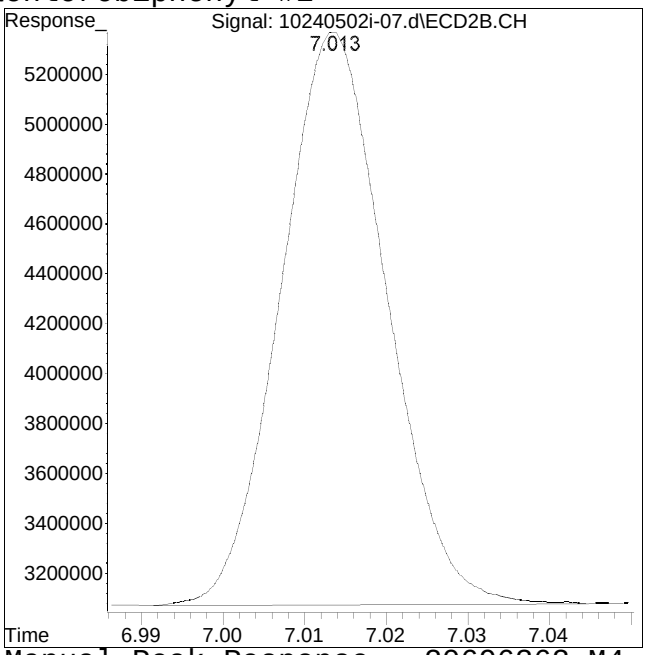
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-07.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 4:53 pm Instrument : Pest 10
Sample : il5pest,42e,,pp 11402 L0.0Quant Date : 5/7/2024 4:34 pm

Compound #65: Decachlorobiphenyl #2



Original Peak Response = 20678558



Manual Peak Response = 20696362 M4

M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest10\2024\240502ical\
Data File : 10240502i-08.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 May 2024 5:04 pm
Operator : PEST10:jag
Sample : il7pest,42e,,pp 11401 L0.01
Misc : wg1919460, (Sig #1); ical (Sig #2)
ALS Vial : 8 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 07 16:25:02 2024
Quant Method : I:\PEST\Pest10\2024\240502ical\pest10_2024_05_02_ugL_ical.m
Quant Title : pest
QLast Update : Tue May 07 16:24:51 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	1.317	1.428	385.6E6	140.4E6	25.000M3	25.000M4
28) i	1-br-2-nb_Ch	0.000	0.000	0	0	N.D. d	N.D. d
33) i	1-br-2-nb_To	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	1.662	1.920	159.4E6	51363674	10.452M4	9.975M4
	Spiked Amount 50.000	Range 30 - 150		Recovery =		20.90%#	19.95%#
27) s	Decachlorobi	6.306	7.012	142.2E6	46699460	11.478	11.610M4
	Spiked Amount 50.000	Range 30 - 150		Recovery =		22.96%#	23.22%#
	Target Compounds						
3) t	Hexachlorobe	1.876	2.251	173.4E6	59098054	10.689M4	10.453M4
4) t	alpha-BHC	1.975	2.350	220.8E6	70164944	9.230M3	8.618M4
5) t	gamma-BHC (l	2.179	2.644	206.8E6	66291891	9.545M3	8.979M3
6) t	beta-BHC	2.235	2.709	95941761	32405359	11.033M4	10.526M4
7) t	delta-BHC	2.363	2.983	205.7E6	65421798	9.293M4	8.617M4
8) t	Heptachlor	2.526	3.053	204.9E6	67313432	10.447M4	9.749M4
9) t	Aldrin	2.769	3.381	191.2E6	60397060	10.064M3	9.221M4
10) t	Alachlor	2.892	3.258	31907443	11588481	13.189M4	12.825M4
11) t	Chlorpyrifos	2.982	3.620	101.1E6	36265370	13.155M4	12.174M4

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest10\2024\240502ical\
Data File : 10240502i-08.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 May 2024 5:04 pm
Operator : PEST10:jag
Sample : il7pest,42e,,pp 11401 L0.01
Misc : wg1919460, (Sig #1); ical (Sig #2)
ALS Vial : 8 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 07 16:25:02 2024
Quant Method : I:\PEST\Pest10\2024\240502ical\pest10_2024_05_02_ugL_ical.m
Quant Title : pest
QLast Update : Tue May 07 16:24:51 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

		Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
12)	t	Heptachlor E	3.316	4.011	184.8E6	61538088	10.750M4	10.108M4
13)	t	gamma-Chlord	3.440	4.233	165.1E6	53940119	10.285M4	9.717M4
14)	t	alpha-Chlord	3.574	4.398	187.9E6	61324507	10.480M4	9.918M4
15)	t	4,4'-DDE	3.671	4.587	179.1E6	55449072	9.916	9.002M4
16)	t	Endosulfan I	3.712	4.458	175.6E6	57518700	10.794M4	10.113M4
17)	t	Dieldrin	3.973	4.743	180.5E6	56499466	10.291	9.435M4
18)	t	Endrin	4.228	5.036	186.5E6	58543586	10.411M4	9.575
19)	t	4,4'-DDD	4.335	5.151	146.8E6	44692333	10.120M4	9.075M4
20)	t	Endosulfan I	4.467	5.230	166.6E6	53350699	11.636M4	10.825
21)	t	4,4'-DDT	4.628	5.426	161.4E6	51466582	10.104M4	9.442M4
22)	t	Endrin Aldeh	4.886	5.523	122.1E6	39526359	9.795	9.113M4
23)	t	Methoxychlor	5.115	5.983	95700295	30252401	12.211M4	11.107M4
24)	t	Mirex	5.172	6.128	146.3E6	48238176	11.760M4	11.731
25)	t	Endosulfan S	5.279	5.749	160.8E6	51725726	11.060M4	10.312M4
26)	t	Endrin Keton	5.506	6.160	177.2E6	56937699	10.953M4	10.293
29)	l1	chlordane-1	0.000	0.000	0	0	N.D. d	N.D. d
30)	l1	chlordane-3	0.000	0.000	0	0	N.D. d	N.D. d
31)	l1	chlordane-4	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\PEST\Pest10\2024\240502ical\
Data File : 10240502i-08.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 May 2024 5:04 pm
Operator : PEST10:jag
Sample : il7pest,42e,,pp 11401 L0.01
Misc : wg1919460, (Sig #1); ical (Sig #2)
ALS Vial : 8 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 07 16:25:02 2024
Quant Method : I:\PEST\Pest10\2024\240502ical\pest10_2024_05_02_ugL_ical.m
Quant Title : pest
QLast Update : Tue May 07 16:24:51 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
32) l1	chlordane-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	chlordane-1			0	0	N.D.	N.D.
Average	chlordane-1					0.000	0.000
34) l2	toxaphene-1	0.000	0.000	0	0	N.D. d	N.D. d
35) l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
36) l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
37) l2	toxaphene-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

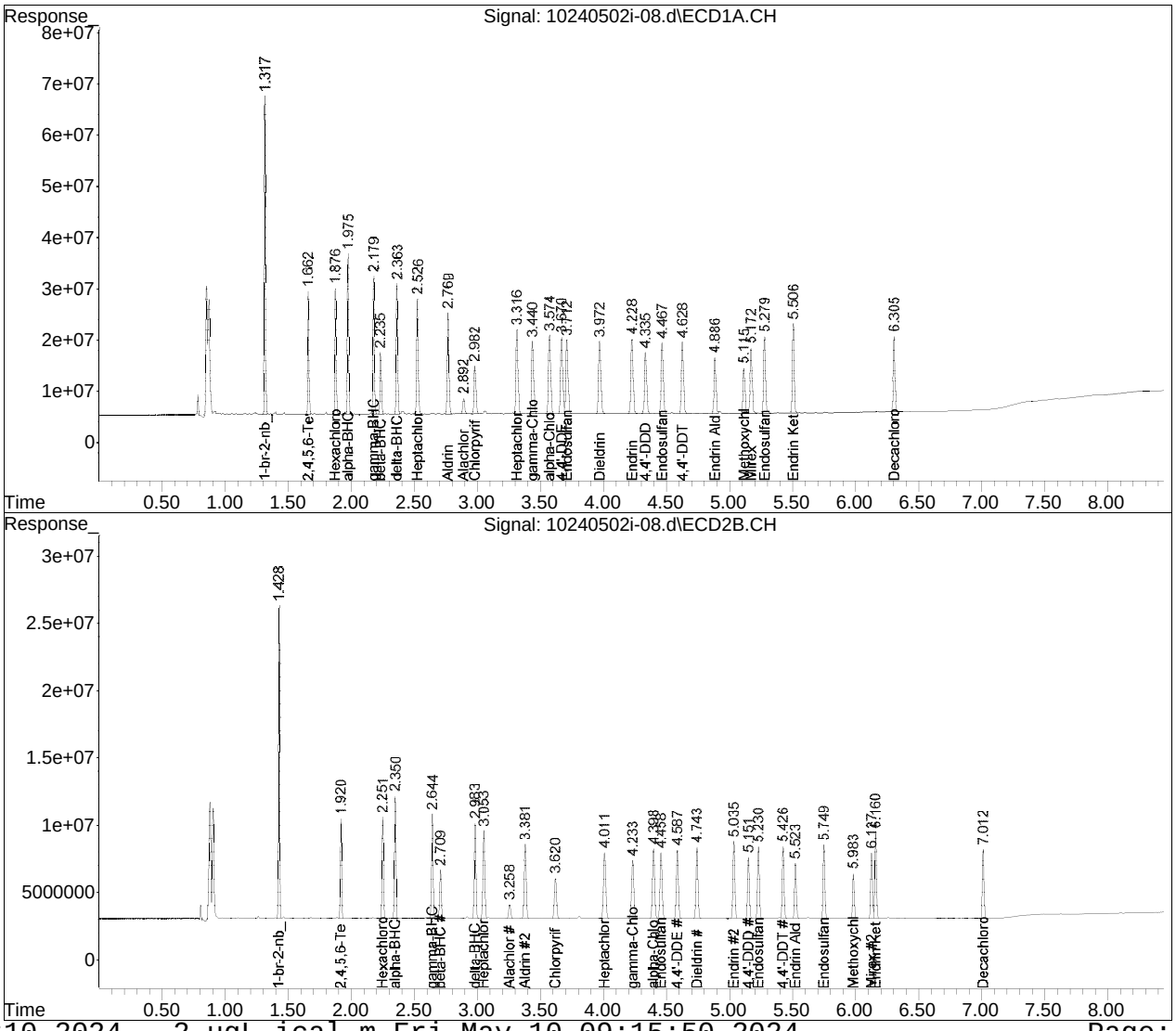
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest10\2024\240502ical\
Data File : 10240502i-08.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 May 2024 5:04 pm
Operator : PEST10:jag
Sample : il7pest,42e,,pp 11401 L0.01
Misc : wg1919460, (Sig #1); ical (Sig #2)
ALS Vial : 8 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 07 16:25:02 2024
Quant Method : I:\PEST\Pest10\2024\240502ical\pest10_2024_05_02_ugL_ical.m
Quant Title : pest
QLast Update : Tue May 07 16:24:51 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

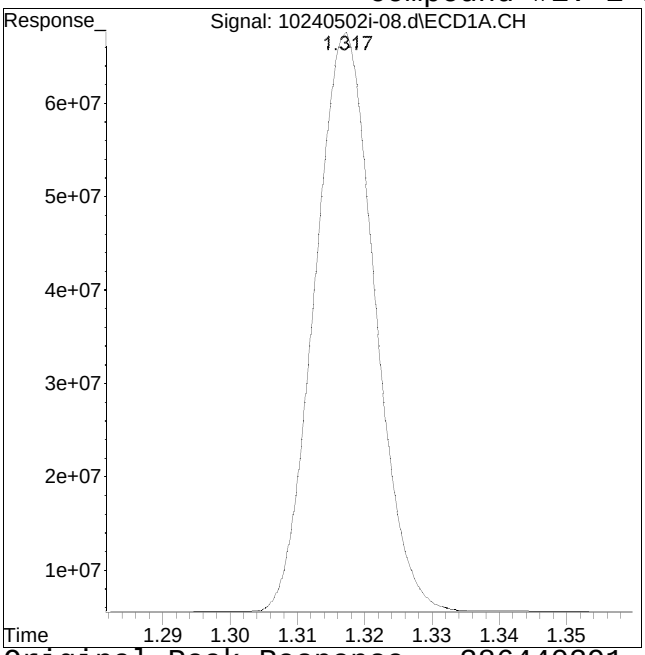
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

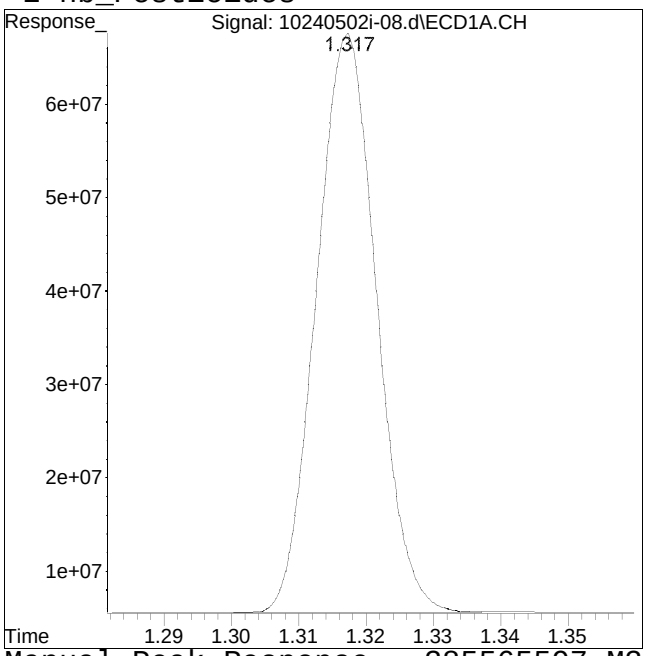


Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-08.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 5:04 pm Instrument : Pest 10
Sample : il7pest,42e,,pp 11401 L0.0Quant Date : 5/7/2024 4:25 pm

Compound #1: 1-br-2-nb_Pesticides





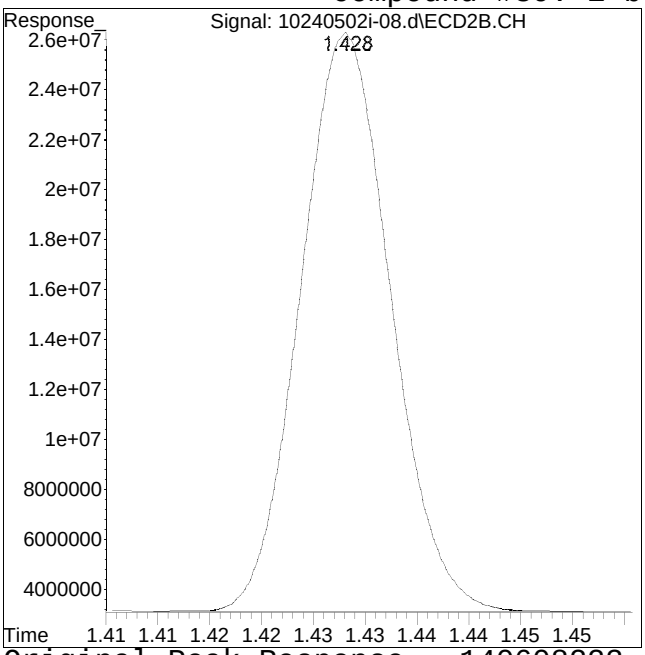
Original Peak Response = 386440391 Manual Peak Response = 385565597 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

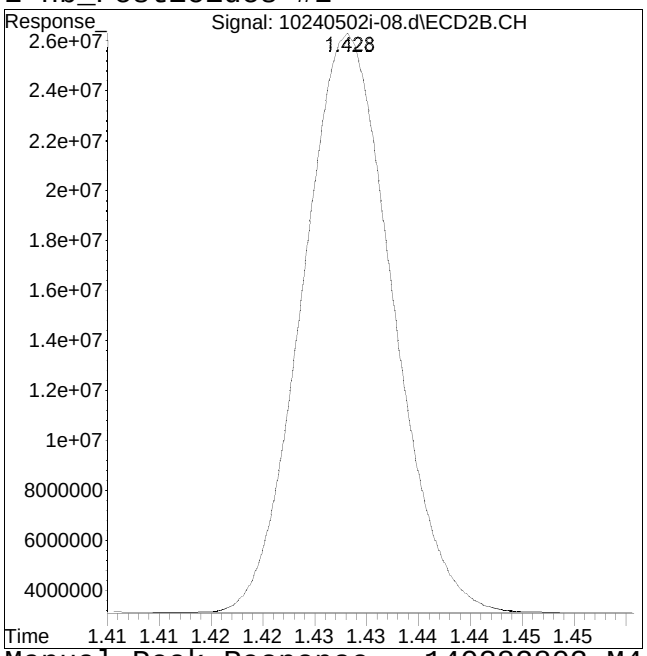
Data Path : I:\PEST\Pest10\2024\240502Q
Data File : 10240502i-08.d
Date Inj'd : 5/2/2024 5:04 pm
Sample : il7pest,42e,,pp 11401 L0.0

Method : pest10_2024_05_02_ugL_ic
Operator : PEST10:jag
Instrument : Pest 10
Quant Date : 5/7/2024 4:25 pm

Compound #39: 1-br-2-nb_Pesticides #2



Original Peak Response = 140608223



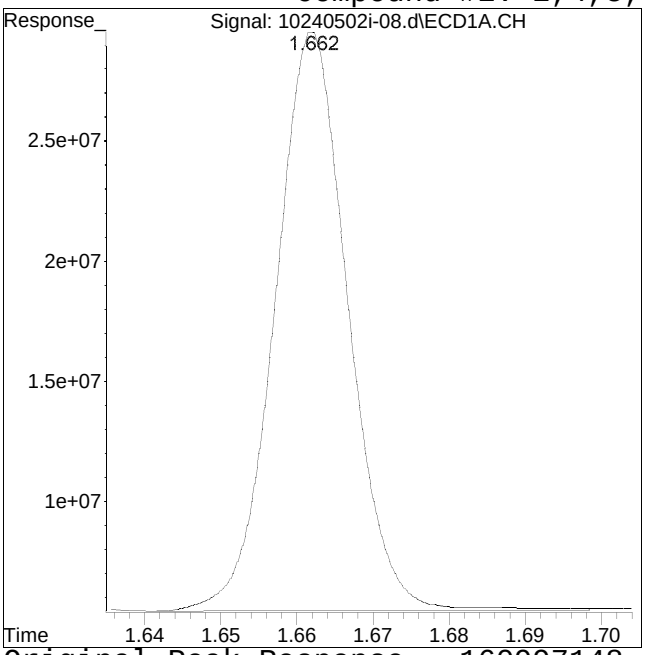
Manual Peak Response = 140382803 M4

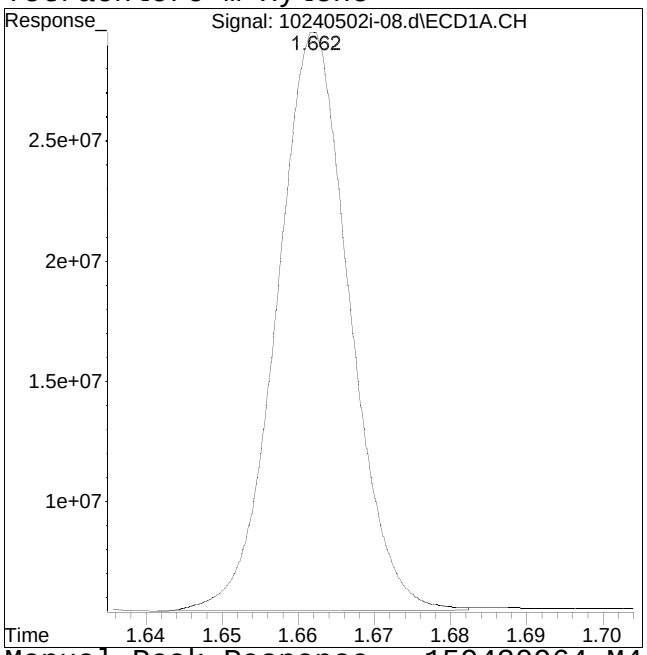
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-08.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 5:04 pm Instrument : Pest 10
Sample : il7pest,42e,,pp 11401 L0.0Quant Date : 5/7/2024 4:25 pm

Compound #2: 2,4,5,6-Tetrachloro-m-xylene



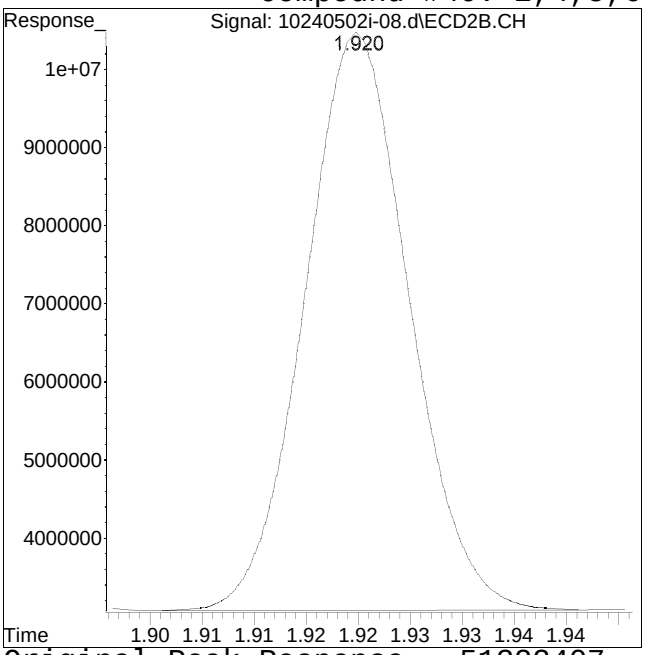


Original Peak Response = 160997148 Manual Peak Response = 159430964 M4
M4 = Poor automated baseline construction.

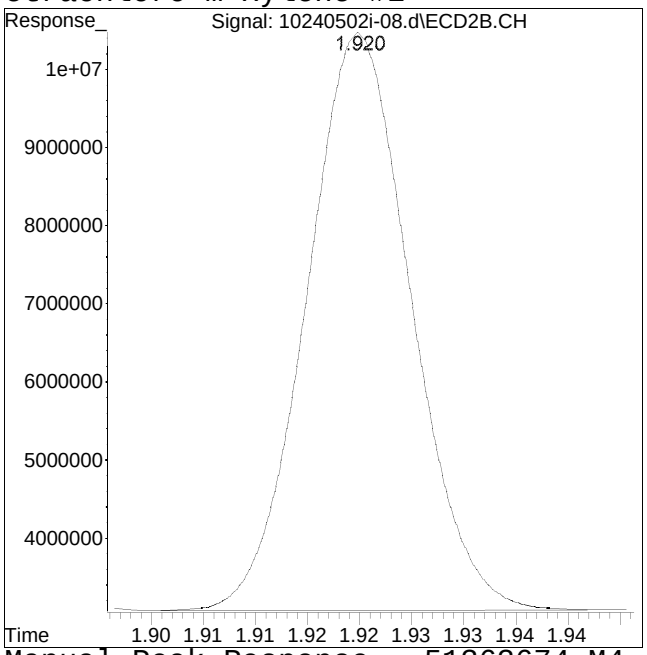
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-08.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 5:04 pm Instrument : Pest 10
Sample : il7pest,42e,,pp 11401 L0.0Quant Date : 5/7/2024 4:25 pm

Compound #40: 2,4,5,6-Tetrachloro-m-xylene #2



Original Peak Response = 51322407



Manual Peak Response = 51363674 M4

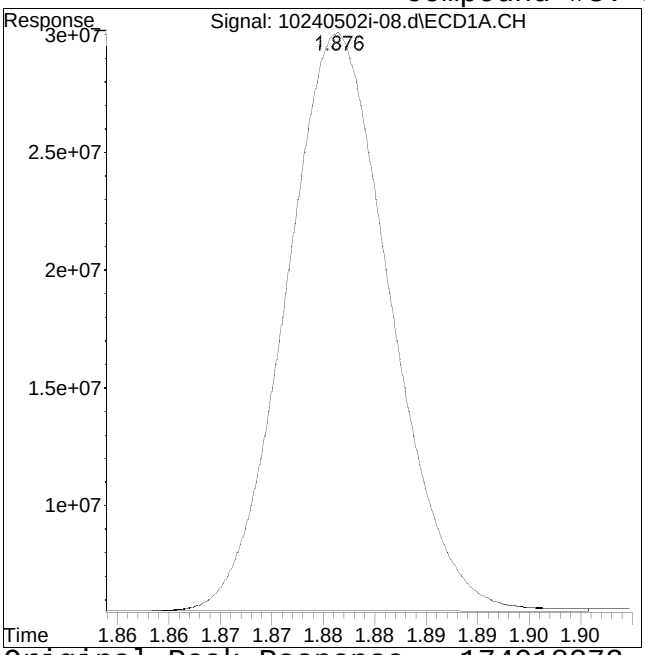
M4 = Poor automated baseline construction.

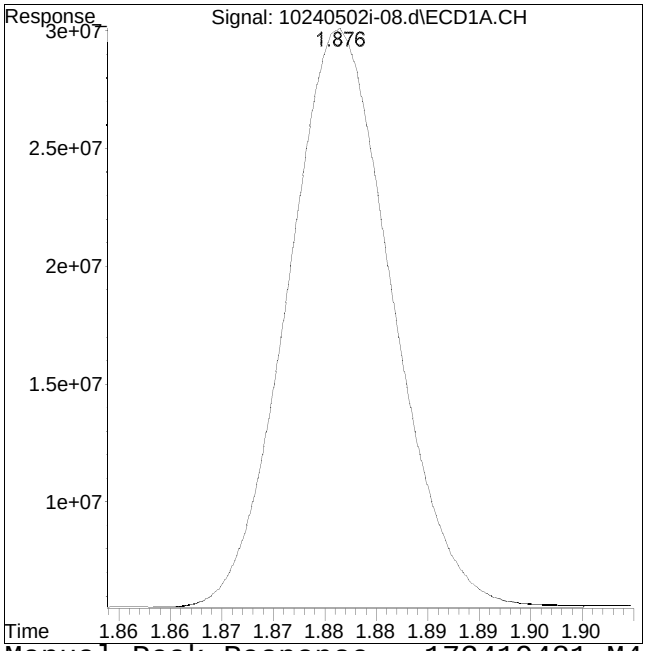
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502Q
Data File : 10240502i-08.d
Date Inj'd : 5/2/2024 5:04 pm
Sample : il7pest,42e,,pp 11401 L0.0

Method : pest10_2024_05_02_ugL_ic
Operator : PEST10:jag
Instrument : Pest 10
Quant Date : 5/7/2024 4:25 pm

Compound #3: Hexachlorobenzene



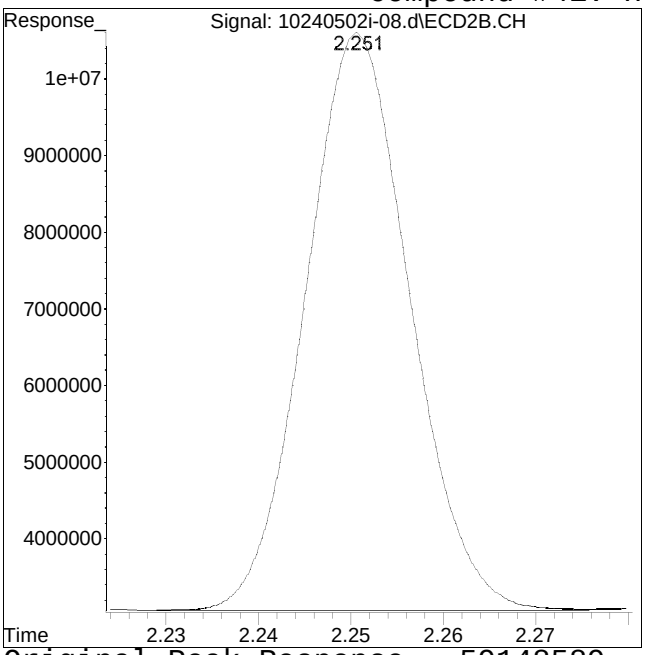


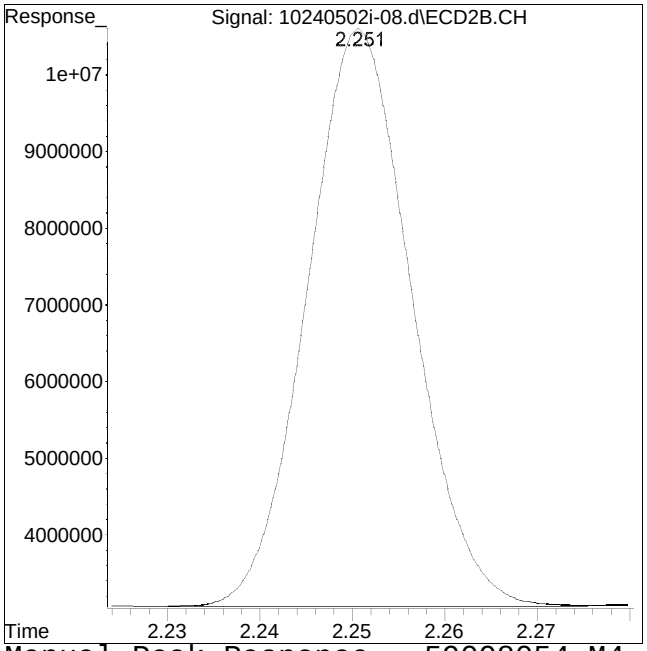
Original Peak Response = 174018373 Manual Peak Response = 173419481 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-08.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 5:04 pm Instrument : Pest 10
Sample : il7pest,42e,,pp 11401 L0.0Quant Date : 5/7/2024 4:25 pm

Compound #41: Hexachlorobenzene #2



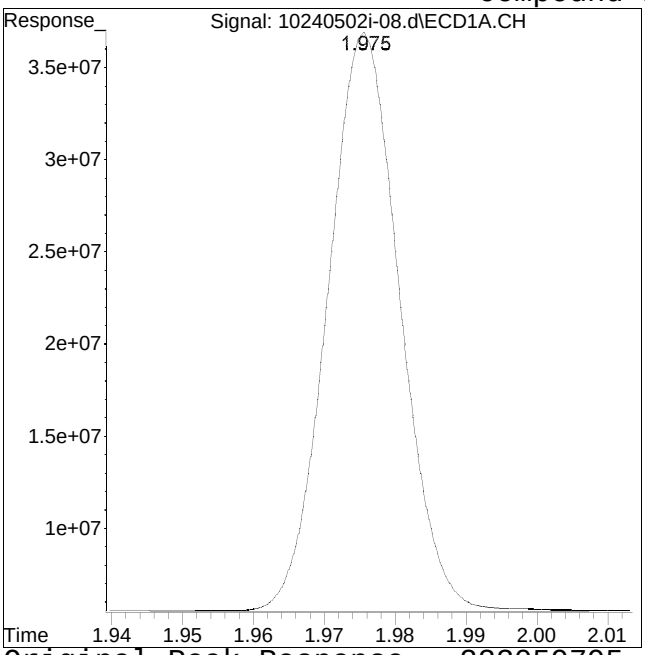


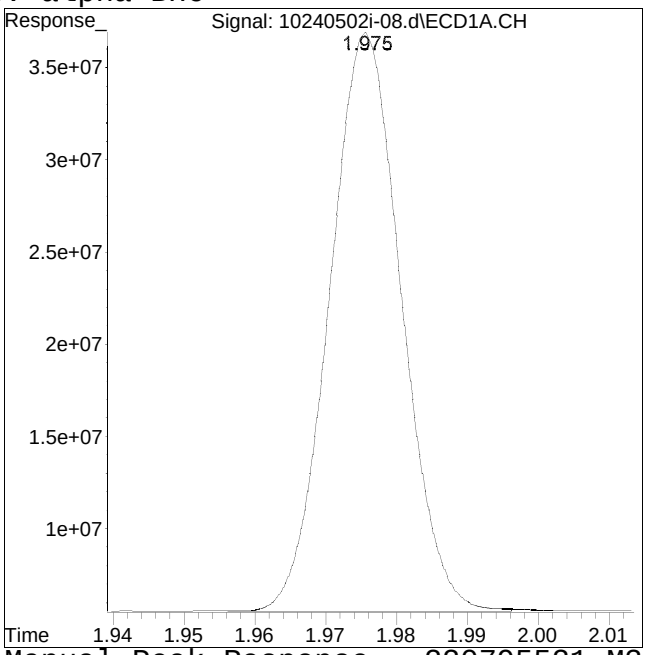
Original Peak Response = 59148589 Manual Peak Response = 59098054 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-08.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 5:04 pm Instrument : Pest 10
Sample : il7pest,42e,,pp 11401 L0.0Quant Date : 5/7/2024 4:25 pm

Compound #4: alpha-BHC



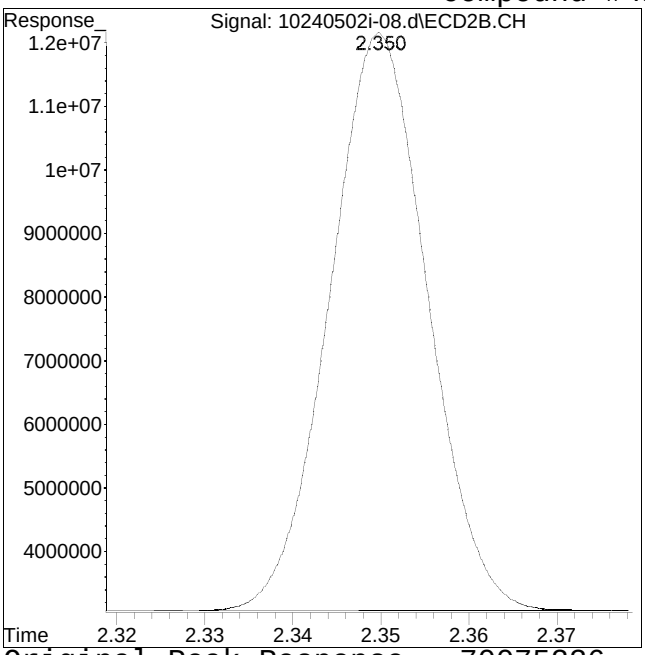


Original Peak Response = 223059795 Manual Peak Response = 220795521 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

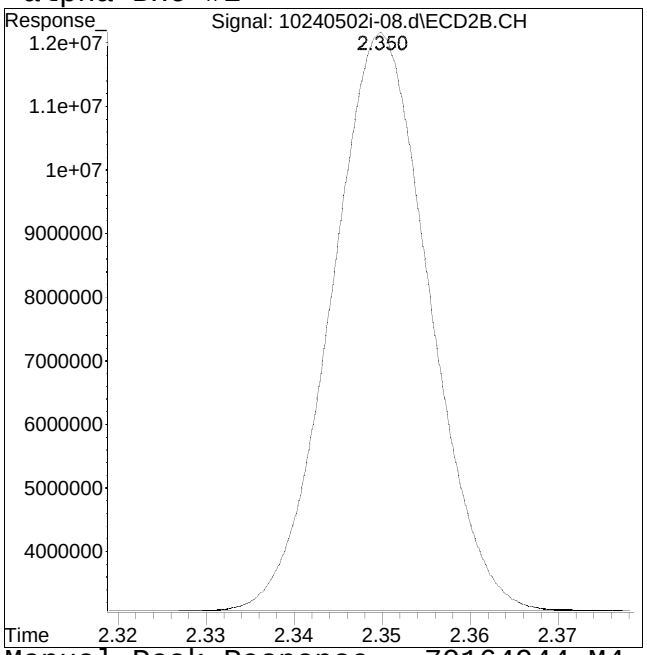
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-08.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 5:04 pm Instrument : Pest 10
Sample : il7pest,42e,,pp 11401 L0.0Quant Date : 5/7/2024 4:25 pm

Compound #42: alpha-BHC #2



Original Peak Response = 70075236



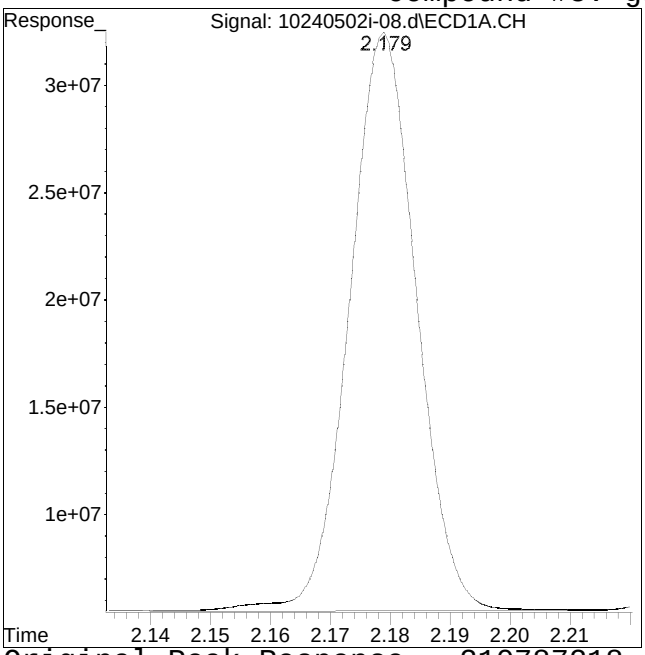
Manual Peak Response = 70164944 M4

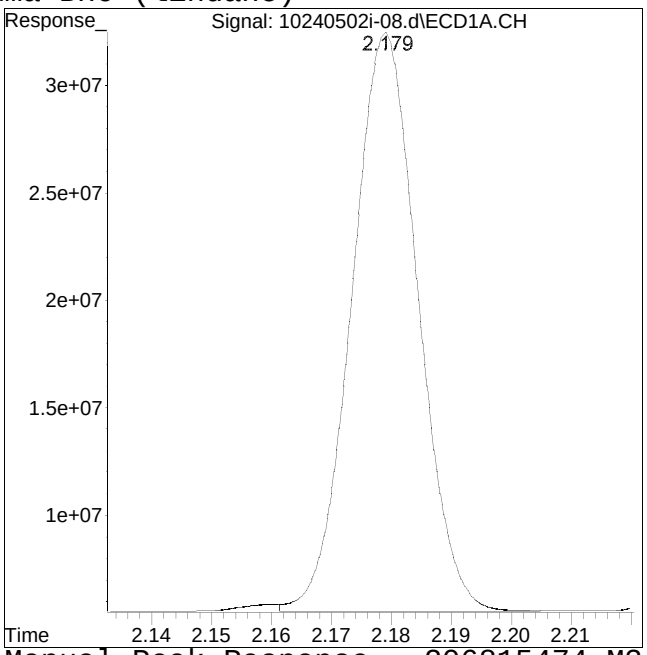
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-08.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 5:04 pm Instrument : Pest 10
Sample : il7pest,42e,,pp 11401 L0.0Quant Date : 5/7/2024 4:25 pm

Compound #5: gamma-BHC (lindane)



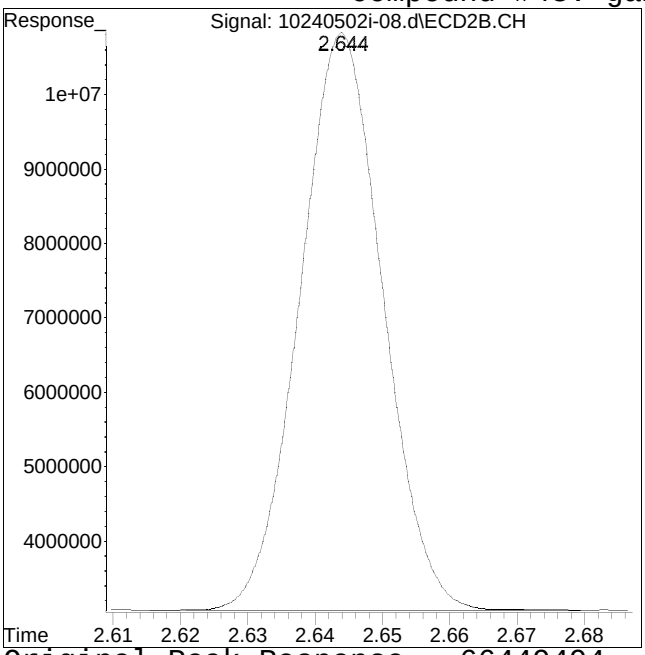


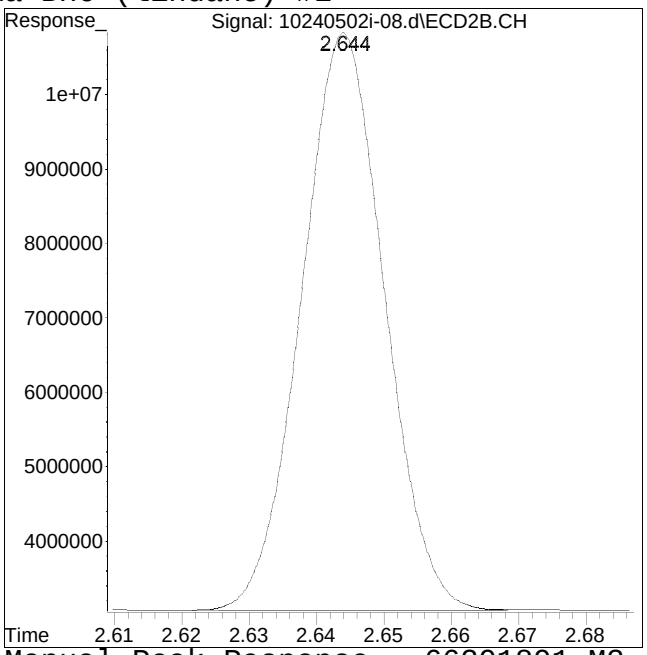
Original Peak Response = 210787218 Manual Peak Response = 206815474 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-08.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 5:04 pm Instrument : Pest 10
Sample : il7pest,42e,,pp 11401 L0.0Quant Date : 5/7/2024 4:25 pm

Compound #43: gamma-BHC (lindane) #2



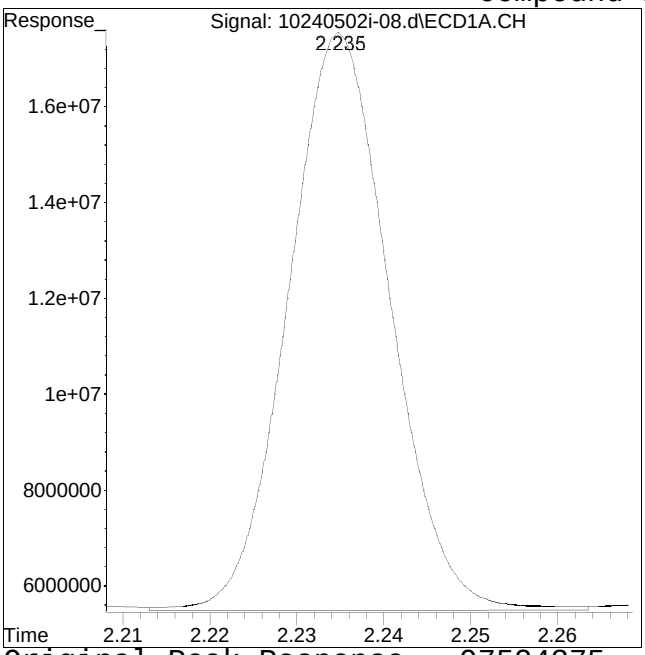


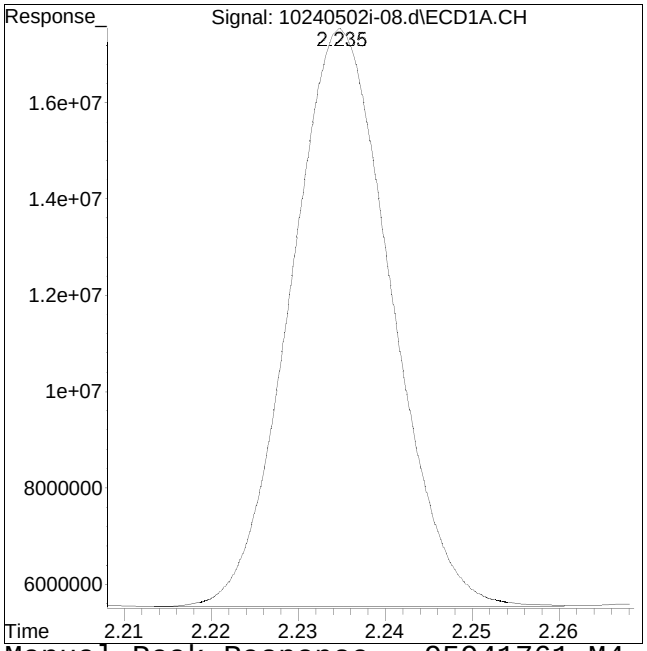
Original Peak Response = 66449494 Manual Peak Response = 66291891 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-08.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 5:04 pm Instrument : Pest 10
Sample : il7pest,42e,,pp 11401 L0.0Quant Date : 5/7/2024 4:25 pm

Compound #6: beta-BHC



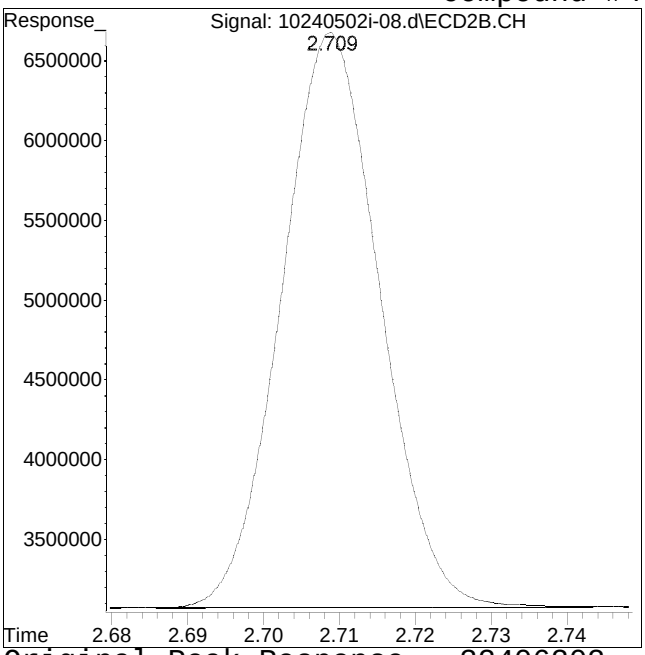


Original Peak Response = 97524375 Manual Peak Response = 95941761 M4
M4 = Poor automated baseline construction.

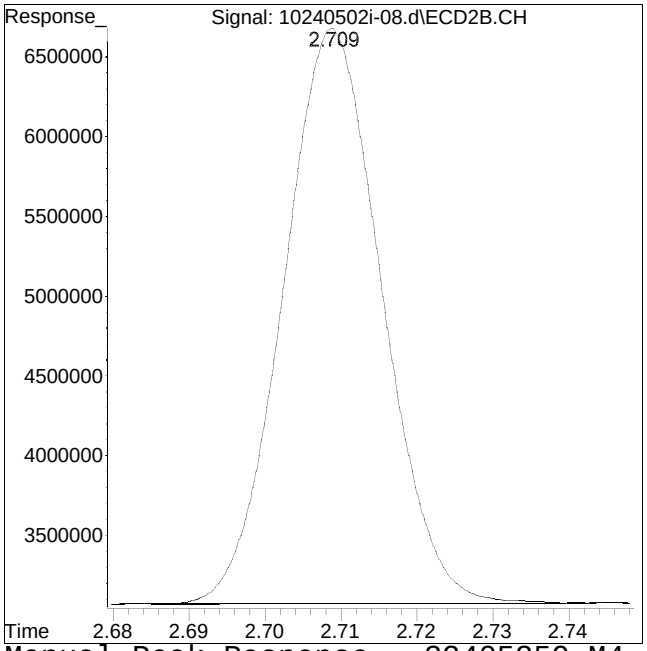
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-08.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 5:04 pm Instrument : Pest 10
Sample : il7pest,42e,,pp 11401 L0.0Quant Date : 5/7/2024 4:25 pm

Compound #44: beta-BHC #2



Original Peak Response = 32406202



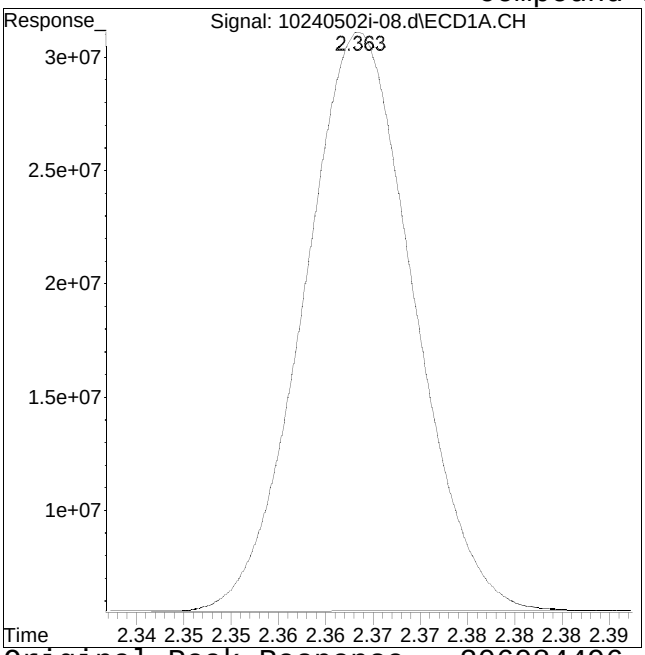
Manual Peak Response = 32405359 M4

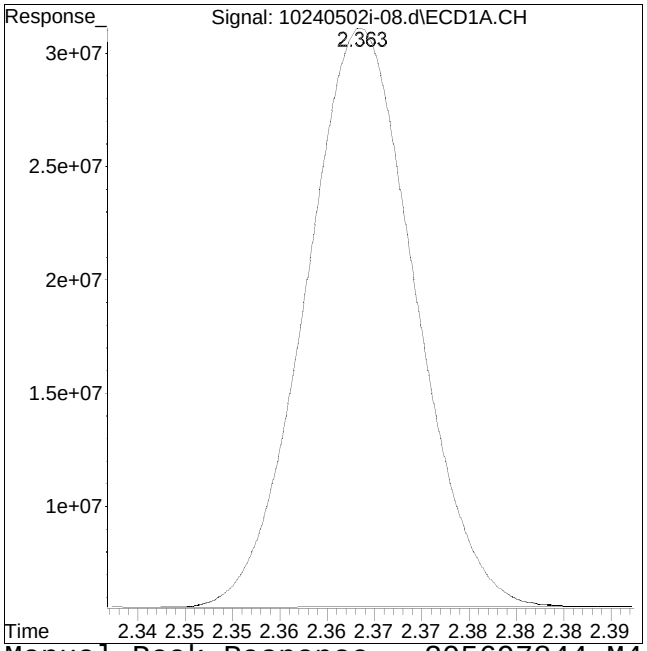
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-08.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 5:04 pm Instrument : Pest 10
Sample : il7pest,42e,,pp 11401 L0.0Quant Date : 5/7/2024 4:25 pm

Compound #7: delta-BHC



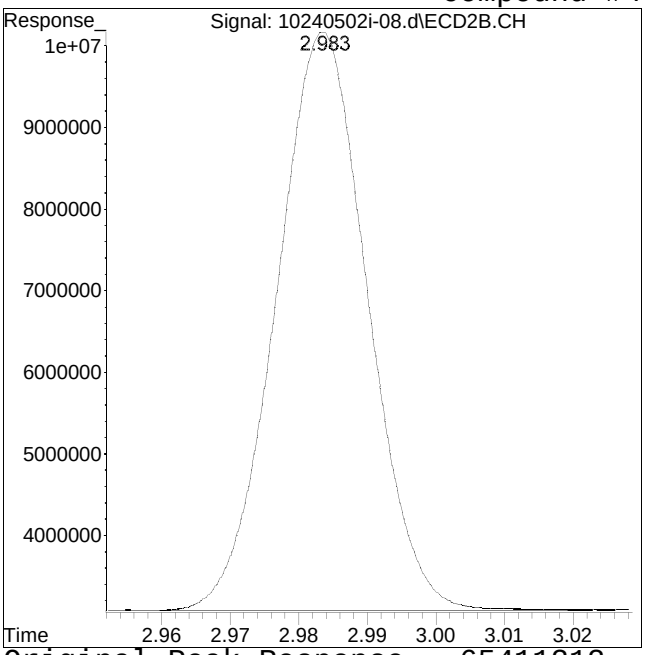


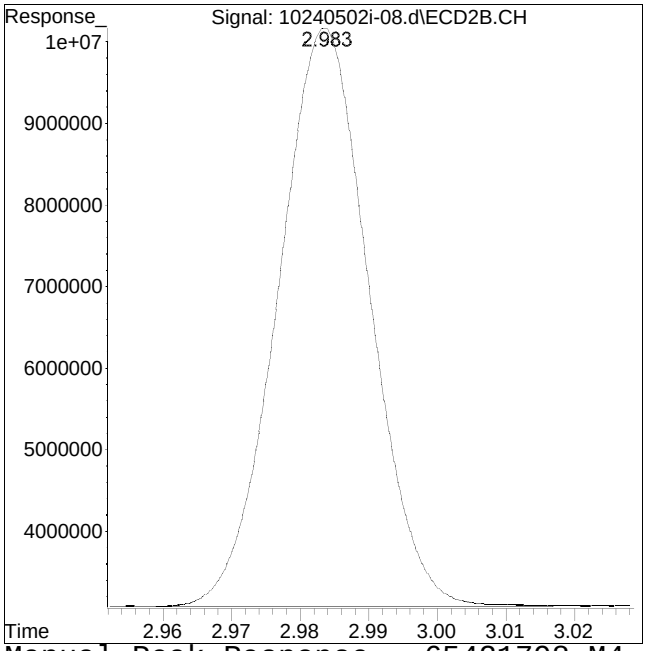
Original Peak Response = 206084496 Manual Peak Response = 205697844 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-08.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 5:04 pm Instrument : Pest 10
Sample : il7pest,42e,,pp 11401 L0.0Quant Date : 5/7/2024 4:25 pm

Compound #45: delta-BHC #2



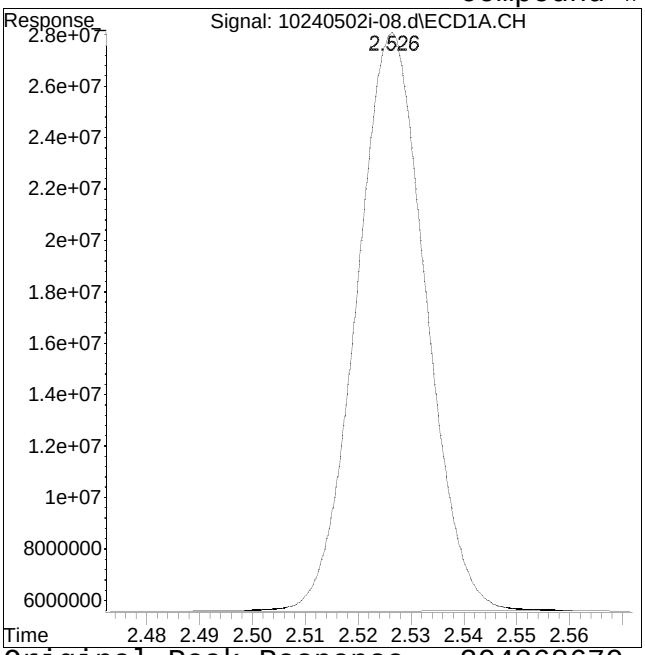


Original Peak Response = 65411212 Manual Peak Response = 65421798 M4
M4 = Poor automated baseline construction.

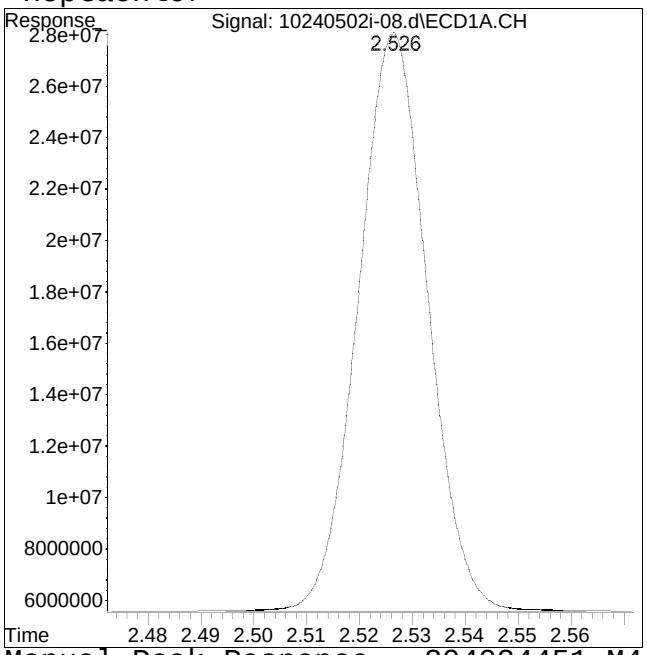
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-08.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 5:04 pm Instrument : Pest 10
Sample : il7pest,42e,,pp 11401 L0.0Quant Date : 5/7/2024 4:25 pm

Compound #8: Heptachlor



Original Peak Response = 204868670



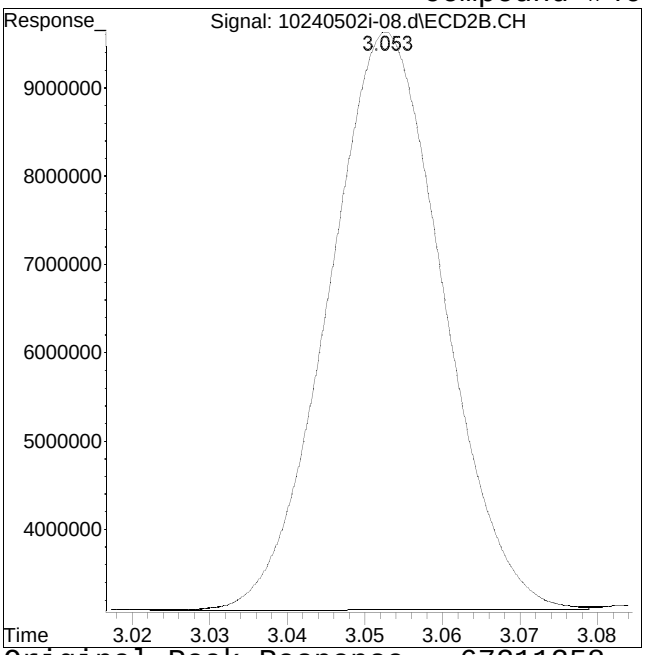
Manual Peak Response = 204924451 M4

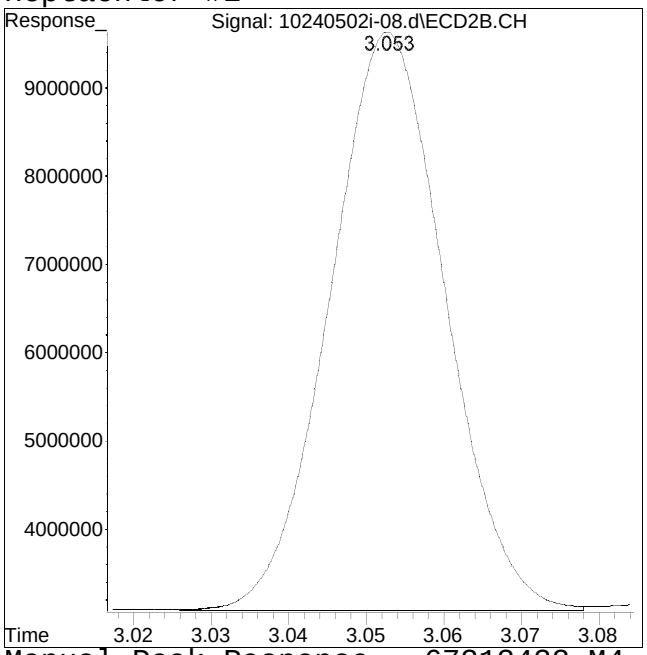
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-08.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 5:04 pm Instrument : Pest 10
Sample : il7pest,42e,,pp 11401 L0.0Quant Date : 5/7/2024 4:25 pm

Compound #46: Heptachlor #2



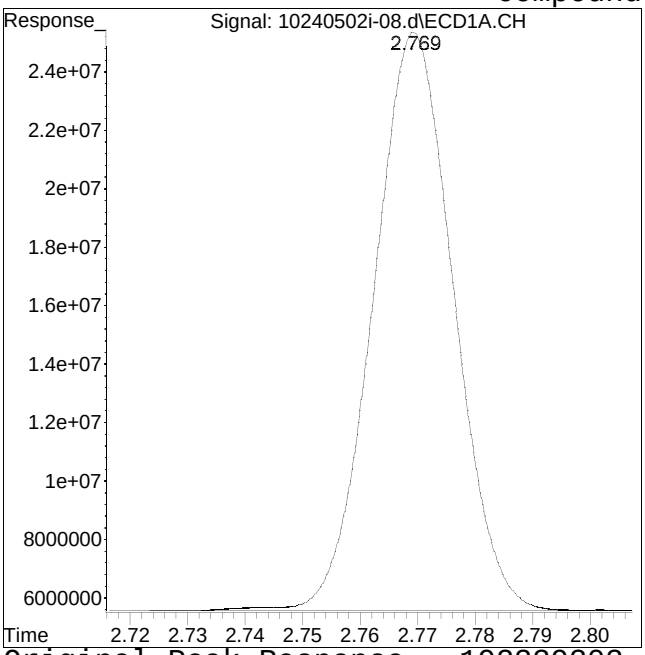


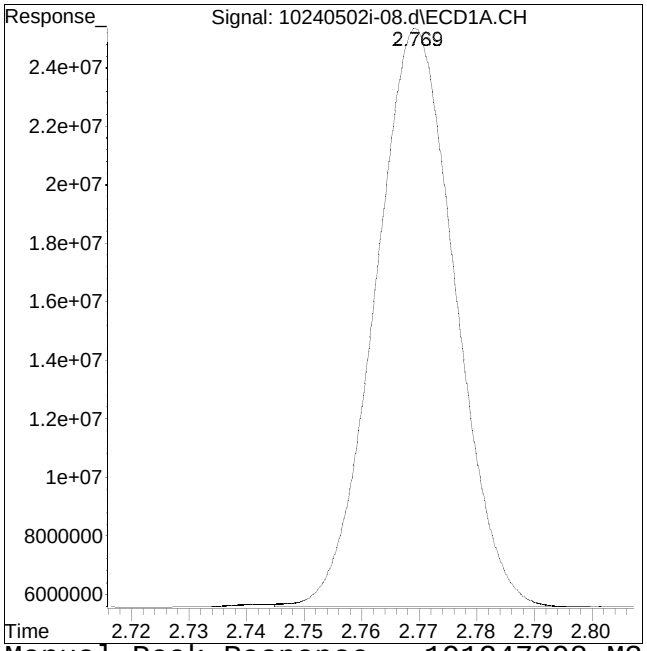
Original Peak Response = 67211258 Manual Peak Response = 67313432 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-08.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 5:04 pm Instrument : Pest 10
Sample : il7pest,42e,,pp 11401 L0.0Quant Date : 5/7/2024 4:25 pm

Compound #9: Aldrin



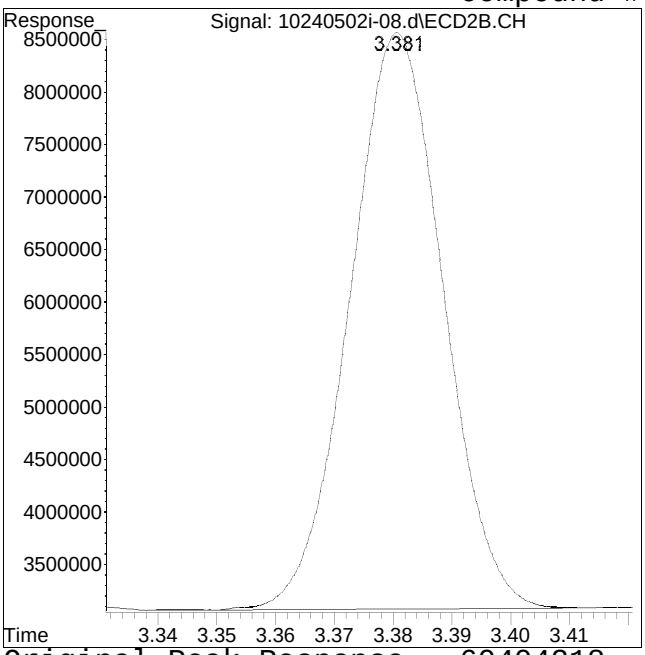


Original Peak Response = 192339303 Manual Peak Response = 191247898 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

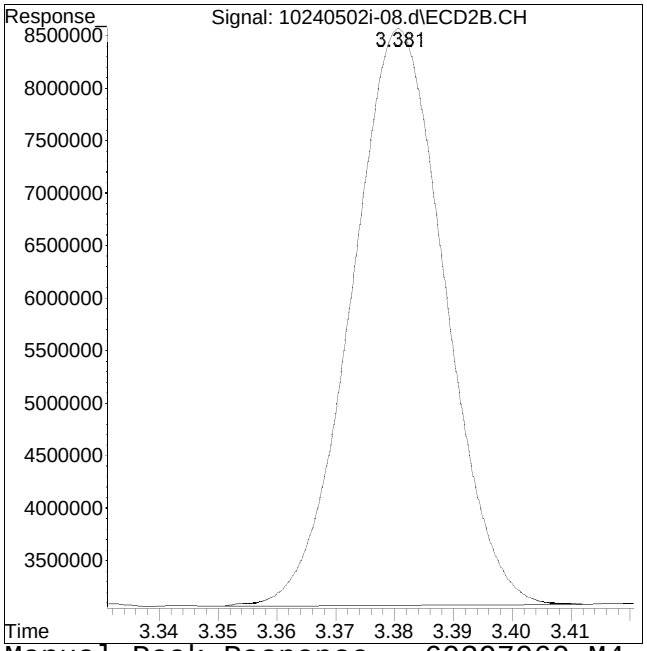
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-08.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 5:04 pm Instrument : Pest 10
Sample : il7pest,42e,,pp 11401 L0.0Quant Date : 5/7/2024 4:25 pm

Compound #47: Aldrin #2



Original Peak Response = 60404218



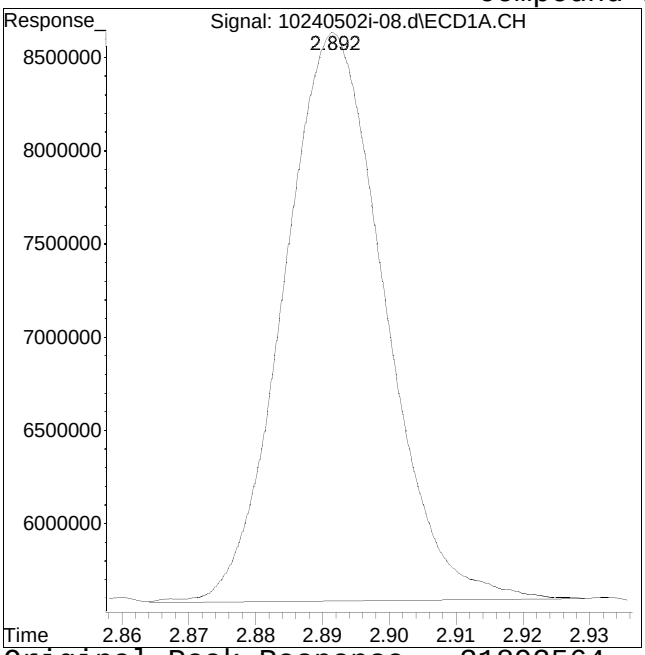
Manual Peak Response = 60397060 M4

M4 = Poor automated baseline construction.

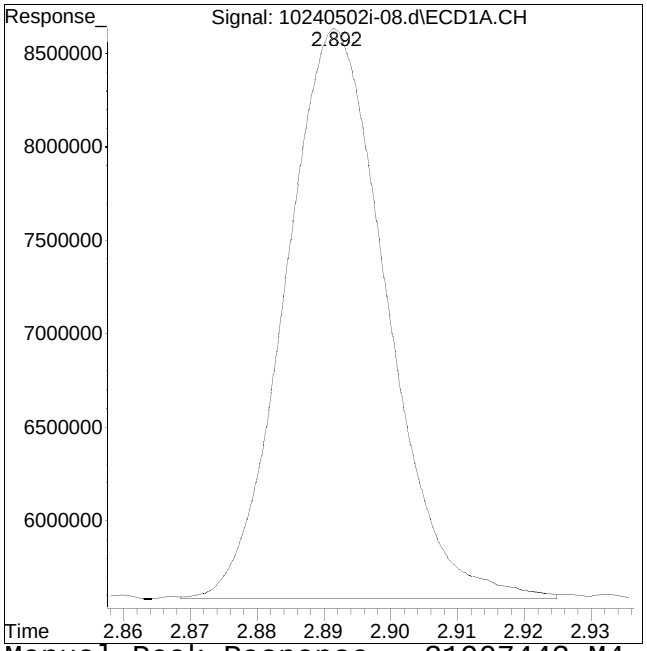
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-08.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 5:04 pm Instrument : Pest 10
Sample : il7pest,42e,,pp 11401 L0.0Quant Date : 5/7/2024 4:25 pm

Compound #10: Alachlor



Original Peak Response = 31892564



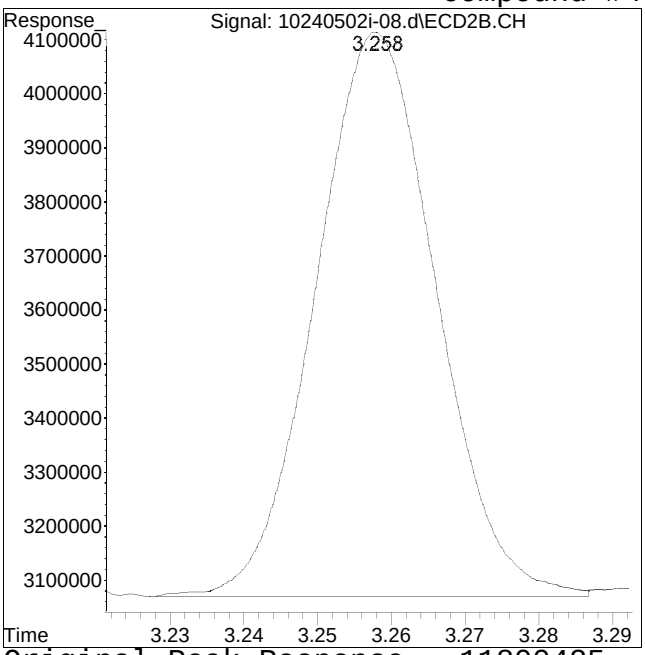
Manual Peak Response = 31907443 M4

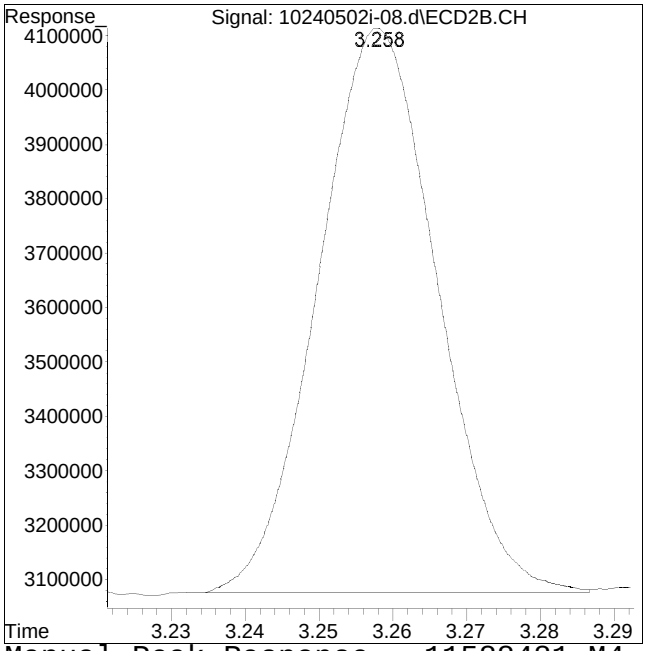
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-08.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 5:04 pm Instrument : Pest 10
Sample : il7pest,42e,,pp 11401 L0.0Quant Date : 5/7/2024 4:25 pm

Compound #48: Alachlor #2



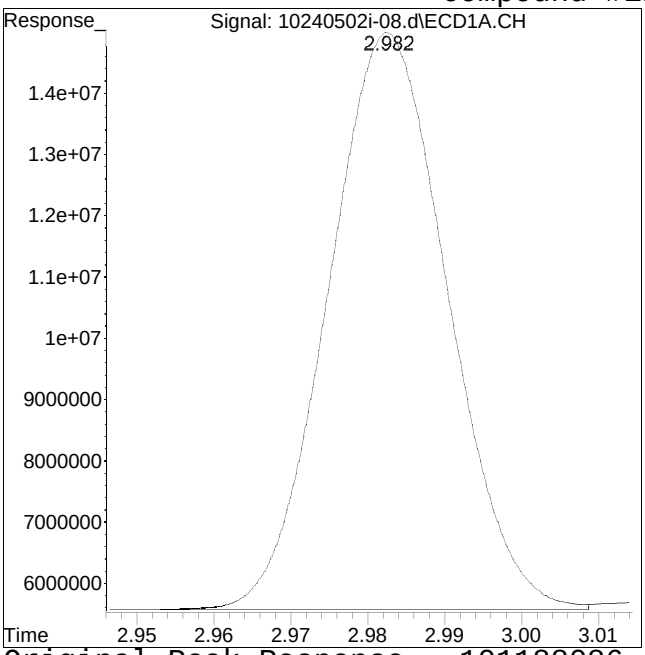


Original Peak Response = 11800425 Manual Peak Response = 11588481 M4
M4 = Poor automated baseline construction.

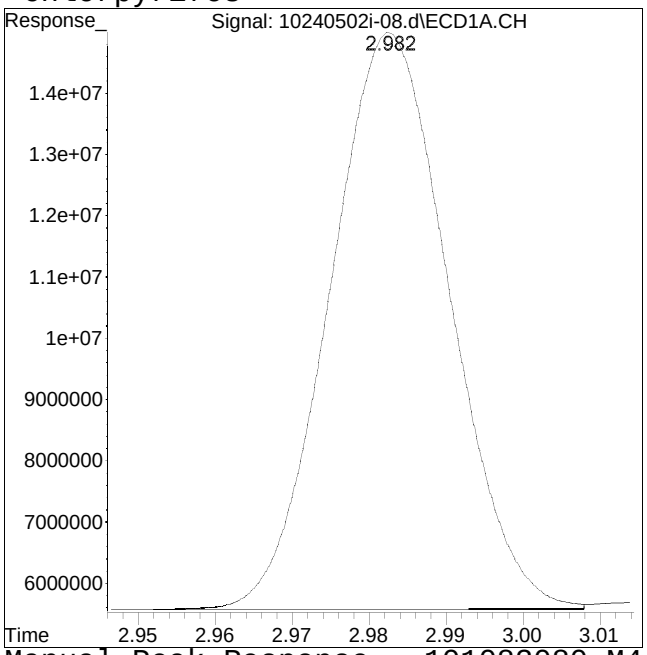
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-08.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 5:04 pm Instrument : Pest 10
Sample : il7pest,42e,,pp 11401 L0.0Quant Date : 5/7/2024 4:25 pm

Compound #11: Chlorpyrifos



Original Peak Response = 101188086



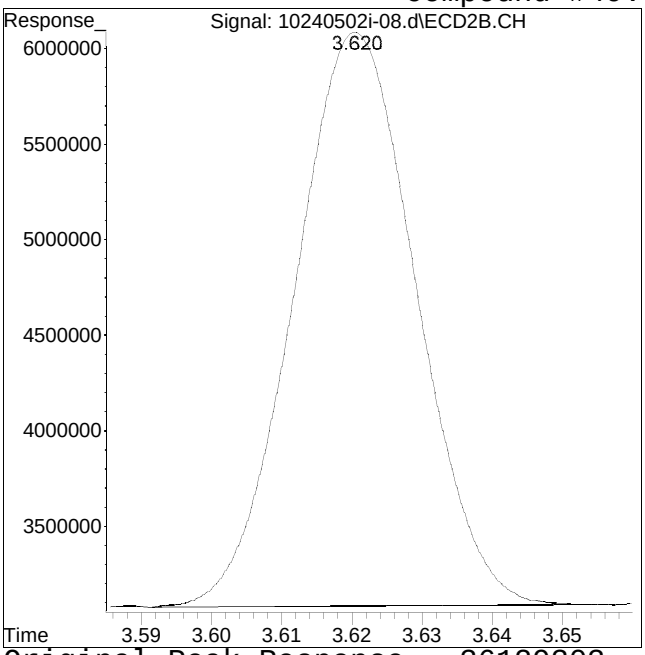
Manual Peak Response = 101083080 M4

M4 = Poor automated baseline construction.

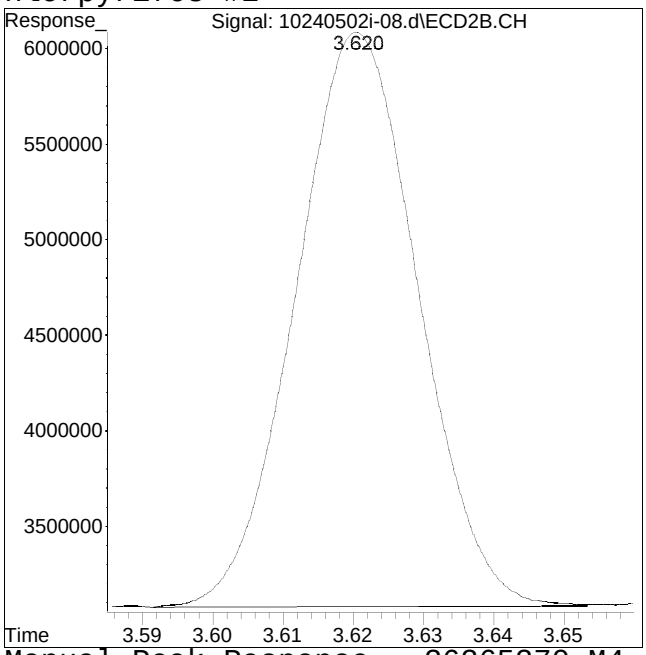
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-08.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 5:04 pm Instrument : Pest 10
Sample : il7pest,42e,,pp 11401 L0.0Quant Date : 5/7/2024 4:25 pm

Compound #49: Chlorpyrifos #2



Original Peak Response = 36129303



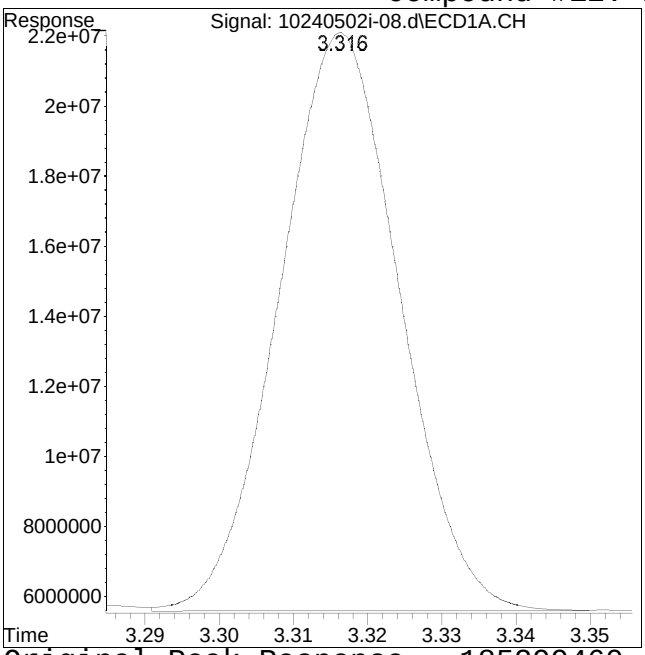
Manual Peak Response = 36265370 M4

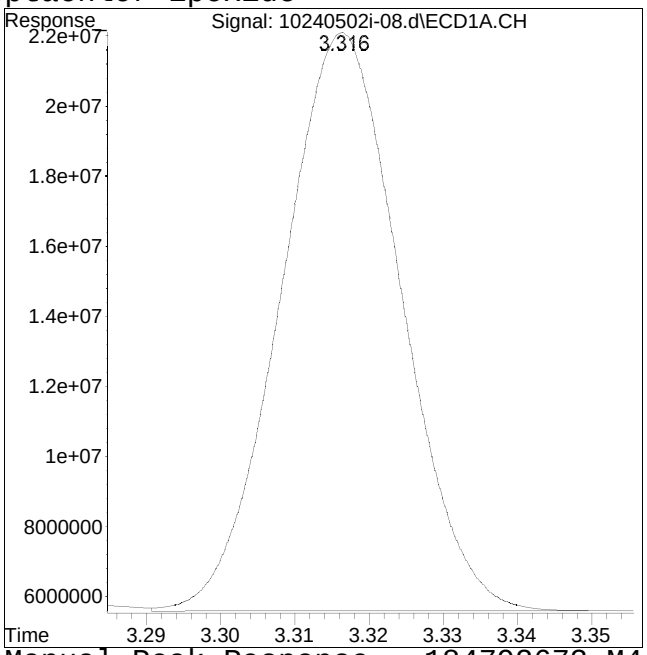
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-08.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 5:04 pm Instrument : Pest 10
Sample : il7pest,42e,,pp 11401 L0.0Quant Date : 5/7/2024 4:25 pm

Compound #12: Heptachlor Epoxide





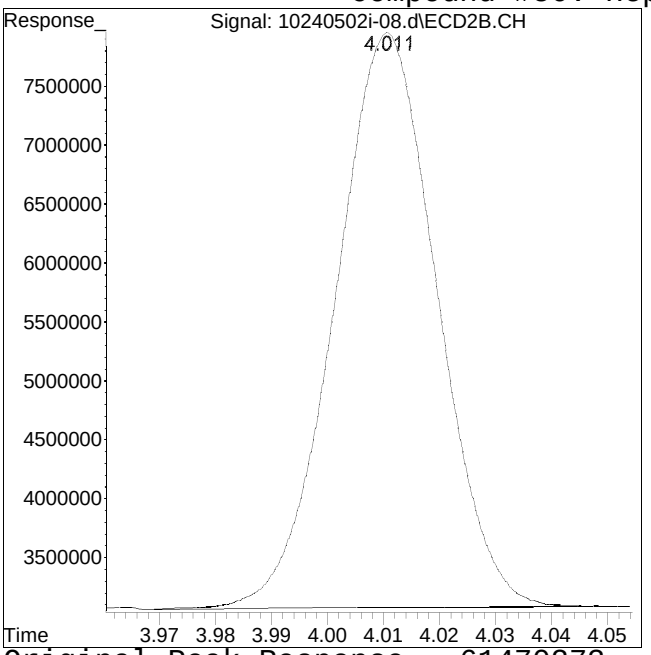
Original Peak Response = 185299460 Manual Peak Response = 184792673 M4
M4 = Poor automated baseline construction.

Manual Integration Report

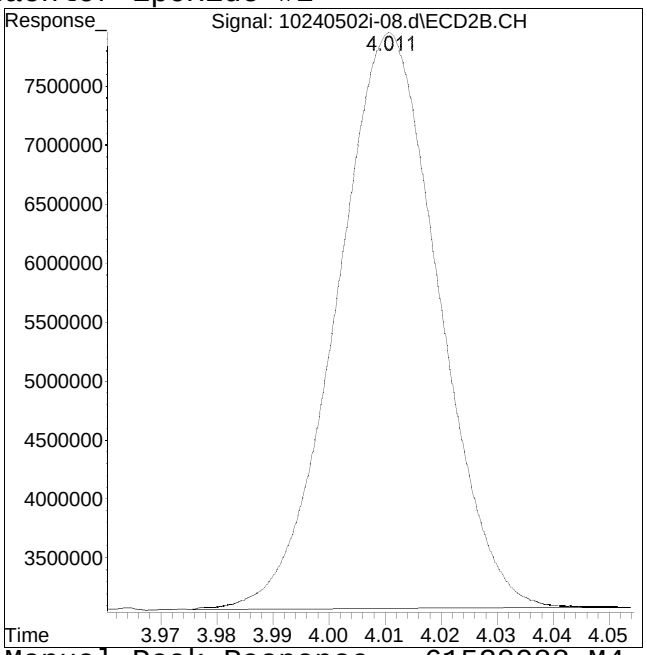
Data Path : I:\PEST\Pest10\2024\240502Q
Data File : 10240502i-08.d
Date Inj'd : 5/2/2024 5:04 pm
Sample : il7pest,42e,,pp 11401 L0.0

Method : pest10_2024_05_02_ugL_ic
Operator : PEST10:jag
Instrument : Pest 10
Quant Date : 5/7/2024 4:25 pm

Compound #50: Heptachlor Epoxide #2



Original Peak Response = 61470273



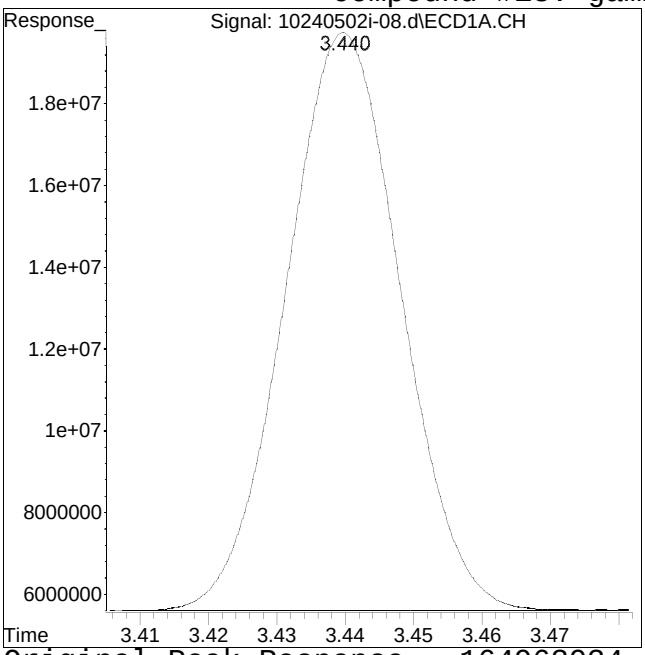
Manual Peak Response = 61538088 M4

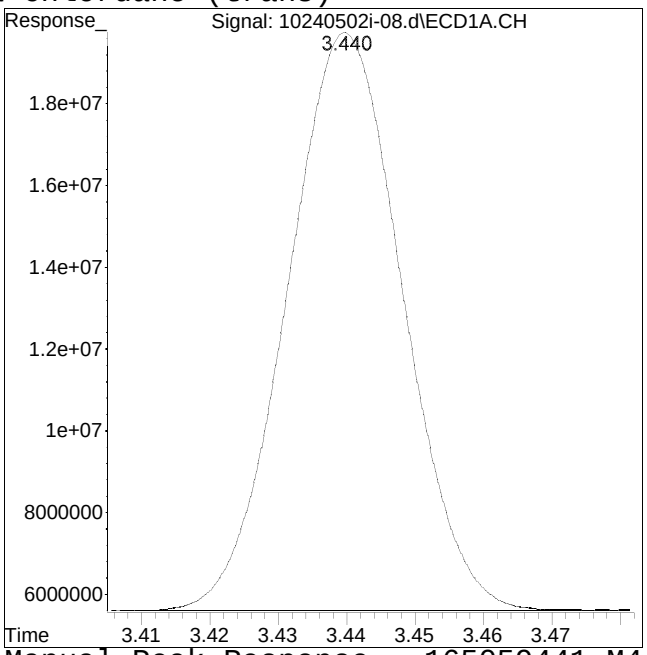
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-08.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 5:04 pm Instrument : Pest 10
Sample : il7pest,42e,,pp 11401 L0.0Quant Date : 5/7/2024 4:25 pm

Compound #13: gamma-Chlordane (trans)



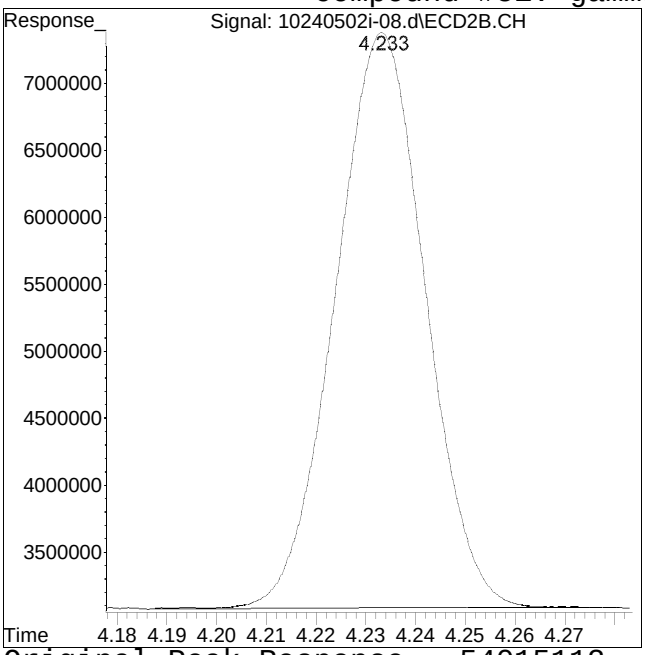


Original Peak Response = 164963934 Manual Peak Response = 165059441 M4
M4 = Poor automated baseline construction.

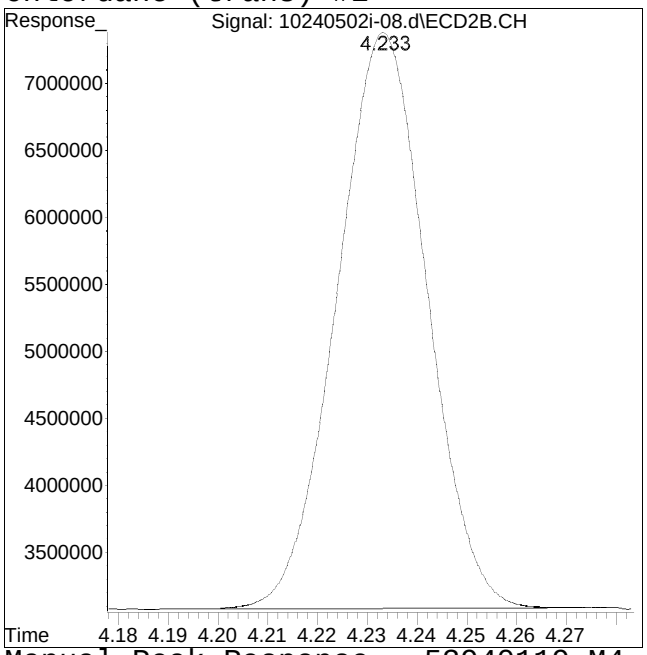
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-08.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 5:04 pm Instrument : Pest 10
Sample : il7pest,42e,,pp 11401 L0.0Quant Date : 5/7/2024 4:25 pm

Compound #51: gamma-Chlordane (trans) #2



Original Peak Response = 54015112



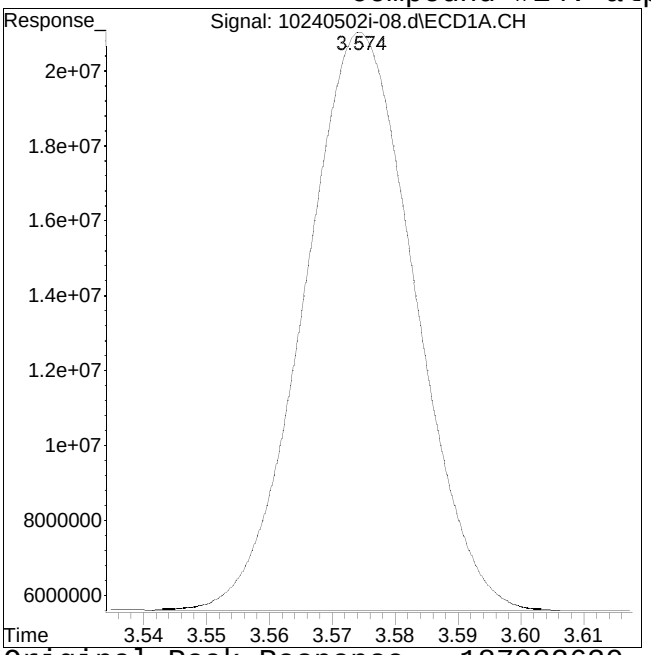
Manual Peak Response = 53940119 M4

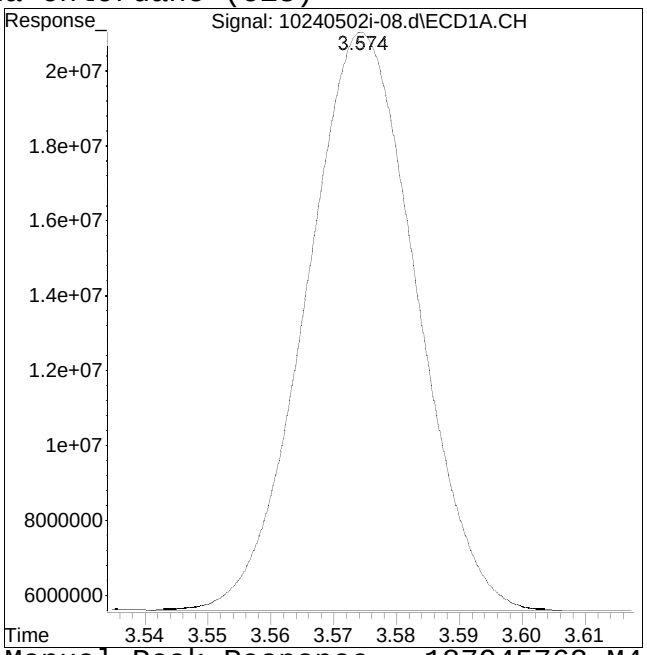
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-08.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 5:04 pm Instrument : Pest 10
Sample : il7pest,42e,,pp 11401 L0.0Quant Date : 5/7/2024 4:25 pm

Compound #14: alpha-Chlordane (cis)



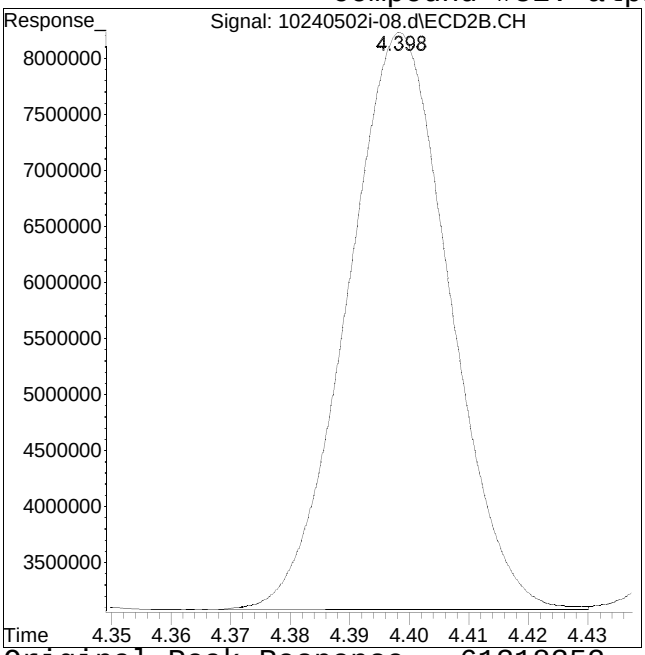


Original Peak Response = 187932630 Manual Peak Response = 187945762 M4
M4 = Poor automated baseline construction.

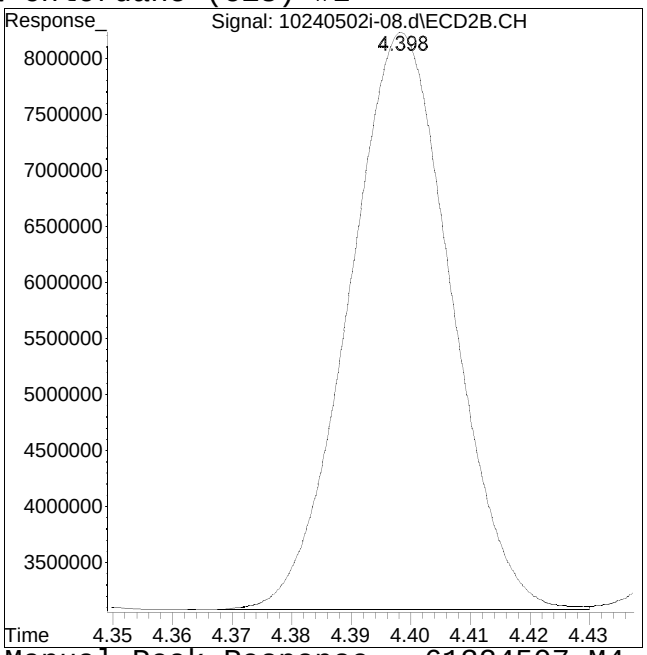
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-08.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 5:04 pm Instrument : Pest 10
Sample : il7pest,42e,,pp 11401 L0.0Quant Date : 5/7/2024 4:25 pm

Compound #52: alpha-Chlordane (cis) #2



Original Peak Response = 61318352



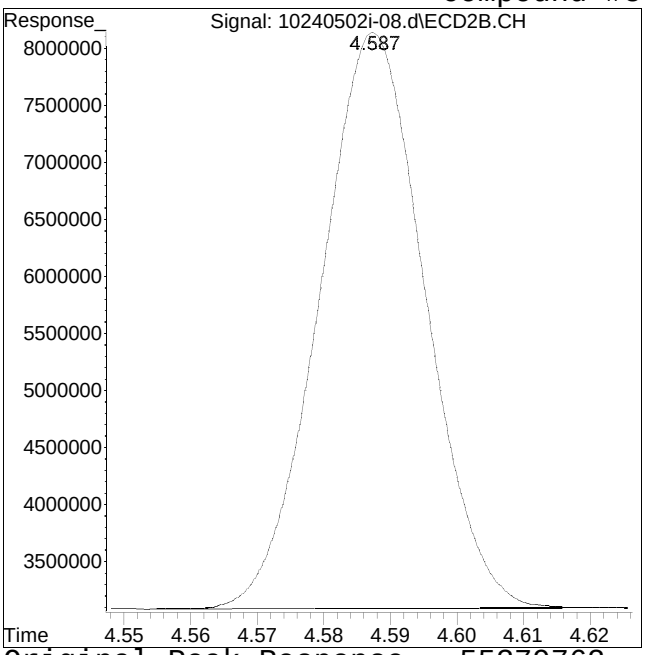
Manual Peak Response = 61324507 M4

M4 = Poor automated baseline construction.

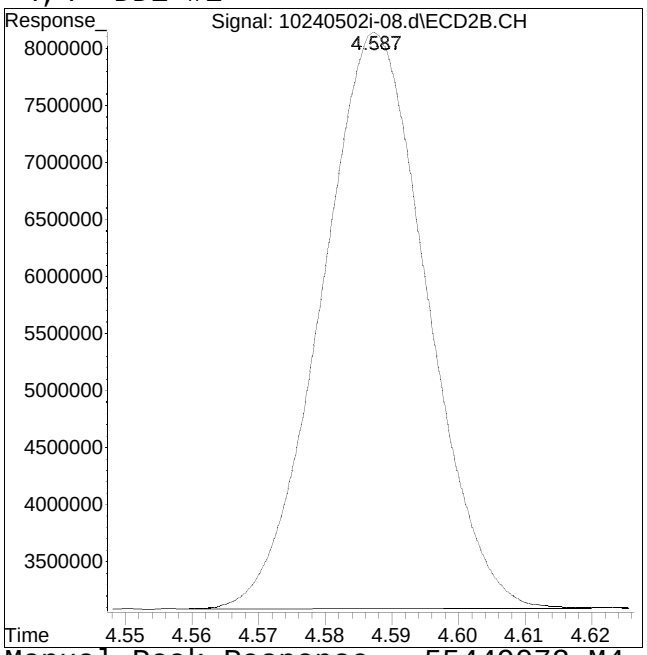
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-08.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 5:04 pm Instrument : Pest 10
Sample : il7pest,42e,,pp 11401 L0.0Quant Date : 5/7/2024 4:25 pm

Compound #53: 4,4'-DDE #2



Original Peak Response = 55379762



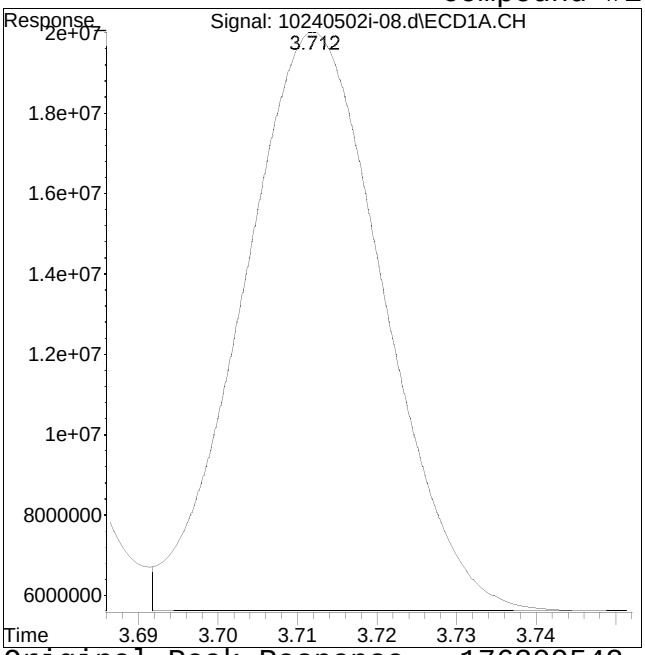
Manual Peak Response = 55449072 M4

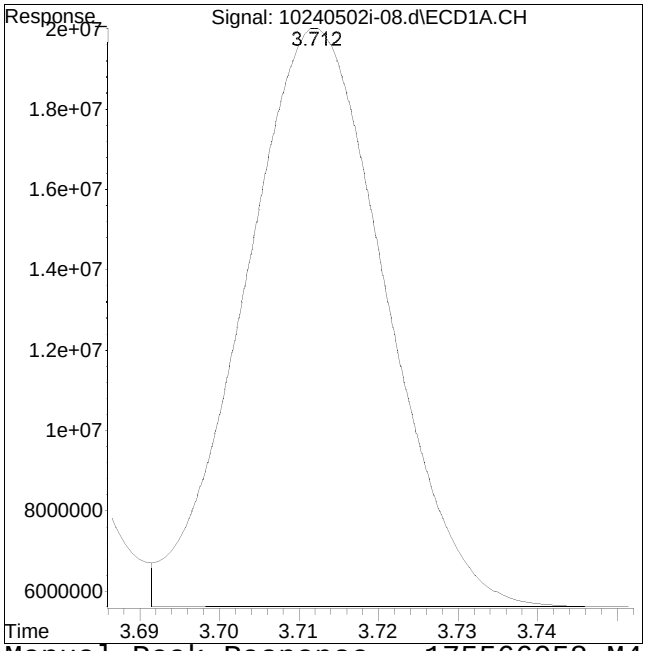
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502Q
Data File : 10240502i-08.d
Date Inj'd : 5/2/2024 5:04 pm
Sample : il7pest,42e,,pp 11401 L0.0
Method : pest10_2024_05_02_ugL_ic
Operator : PEST10:jag
Instrument : Pest 10
Quant Date : 5/7/2024 4:25 pm

Compound #16: Endosulfan I



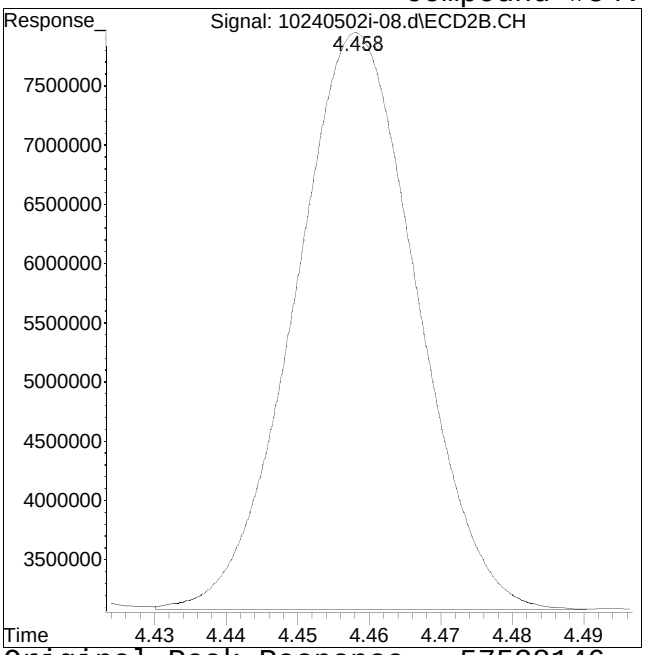


Original Peak Response = 176309542 Manual Peak Response = 175566058 M4
M4 = Poor automated baseline construction.

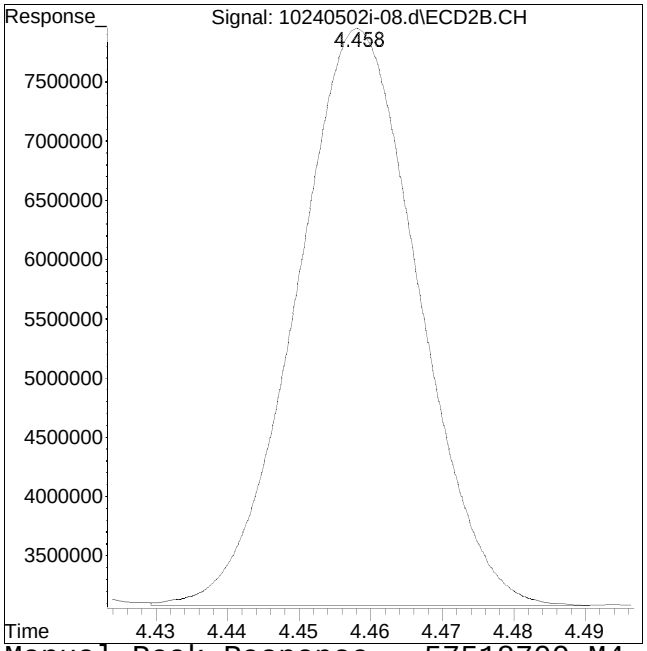
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-08.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 5:04 pm Instrument : Pest 10
Sample : il7pest,42e,,pp 11401 L0.0Quant Date : 5/7/2024 4:25 pm

Compound #54: Endosulfan I #2



Original Peak Response = 57538146



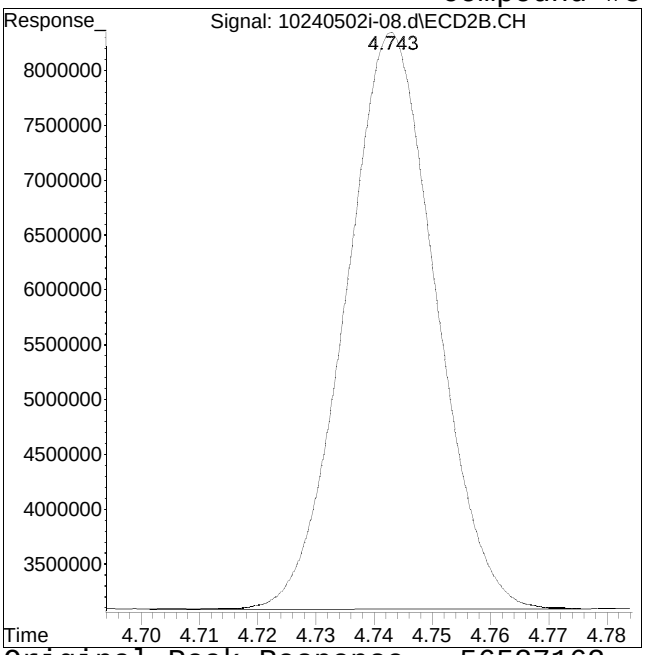
Manual Peak Response = 57518700 M4
M4 = Poor automated baseline construction.

Manual Integration Report

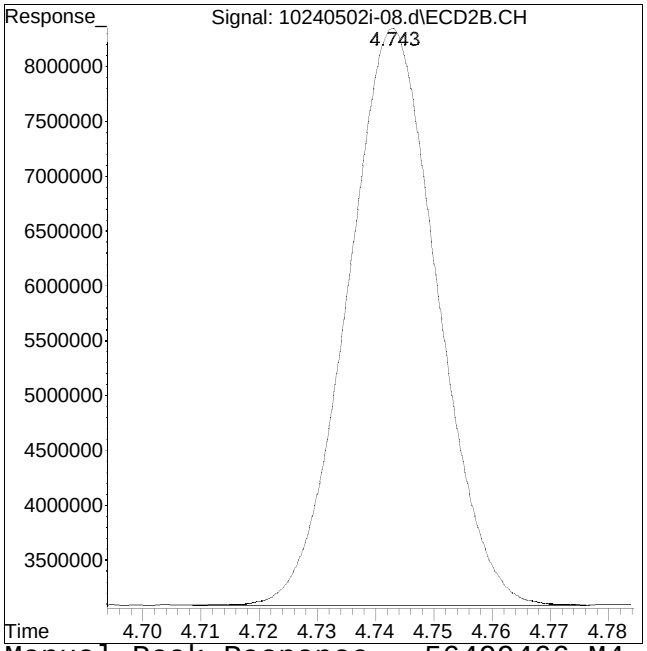
Data Path : I:\PEST\Pest10\2024\240502Q
Data File : 10240502i-08.d
Date Inj'd : 5/2/2024 5:04 pm
Sample : il7pest,42e,,pp 11401 L0.0

Method : pest10_2024_05_02_ugL_ic
Operator : PEST10:jag
Instrument : Pest 10
Quant Date : 5/7/2024 4:25 pm

Compound #55: Dieldrin #2



Original Peak Response = 56527162



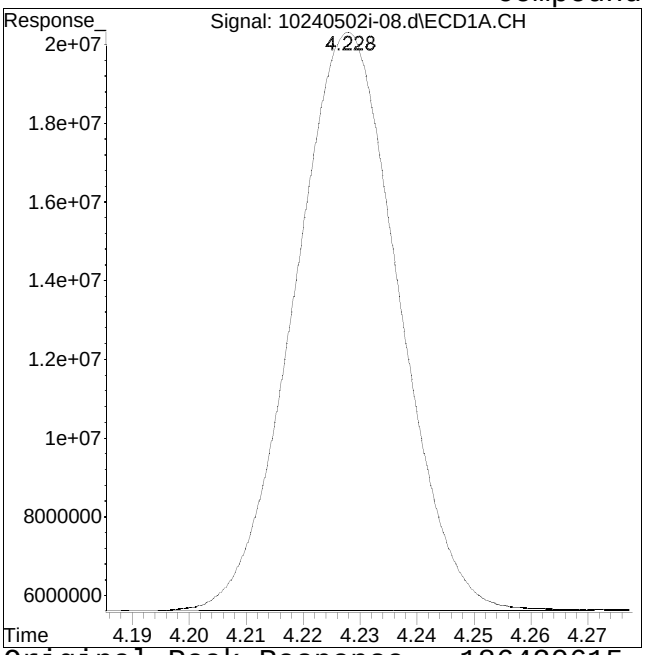
Manual Peak Response = 56499466 M4

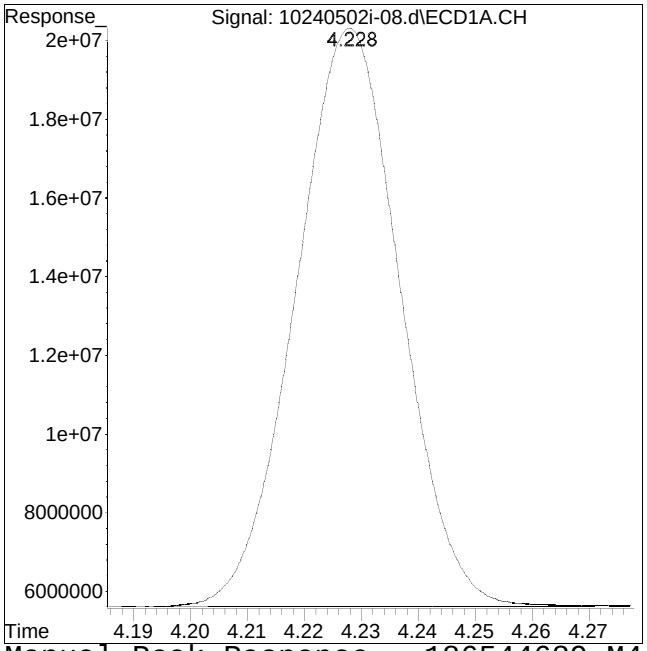
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-08.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 5:04 pm Instrument : Pest 10
Sample : il7pest,42e,,pp 11401 L0.0Quant Date : 5/7/2024 4:25 pm

Compound #18: Endrin



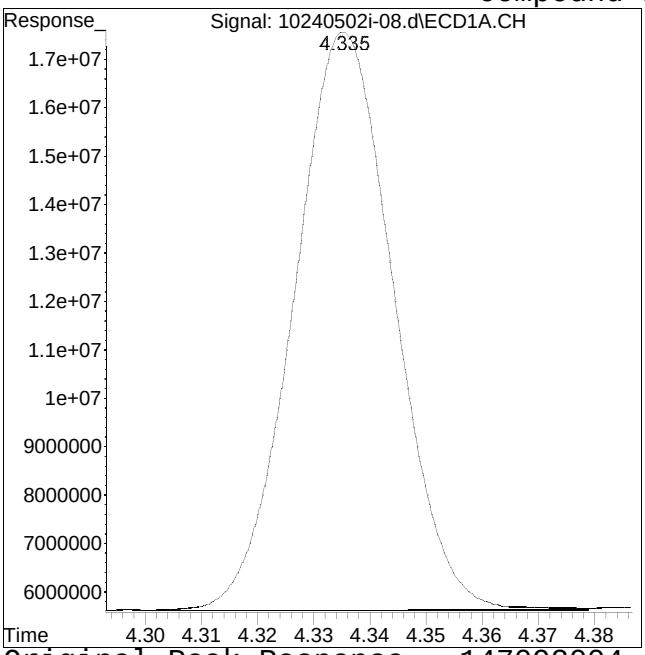


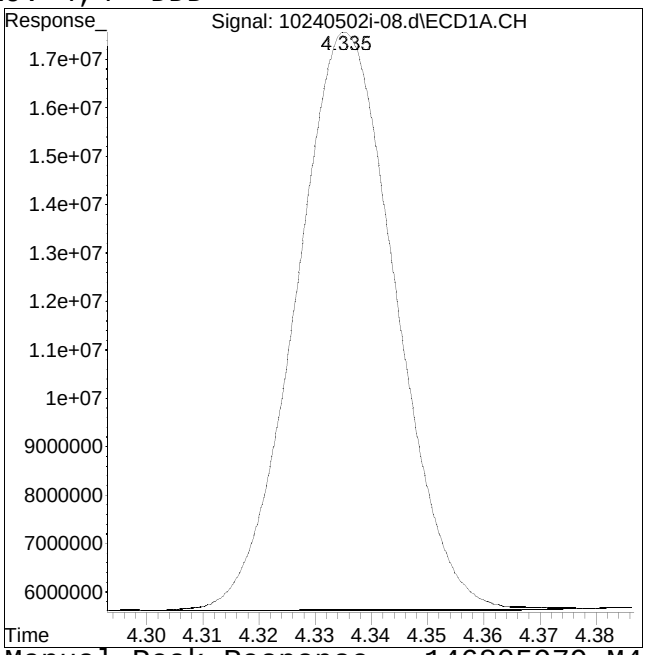
Original Peak Response = 186420615 Manual Peak Response = 186544689 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-08.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 5:04 pm Instrument : Pest 10
Sample : il7pest,42e,,pp 11401 L0.0Quant Date : 5/7/2024 4:25 pm

Compound #19: 4,4'-DDD



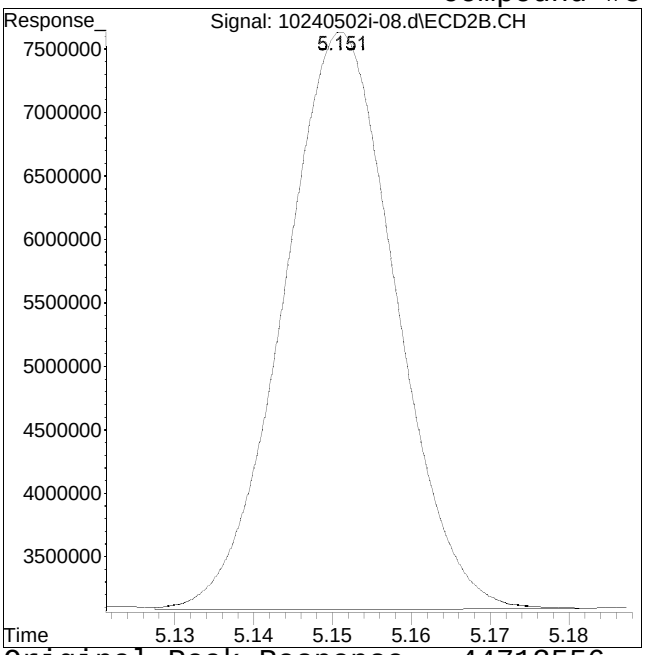


Original Peak Response = 147092004 Manual Peak Response = 146805979 M4
M4 = Poor automated baseline construction.

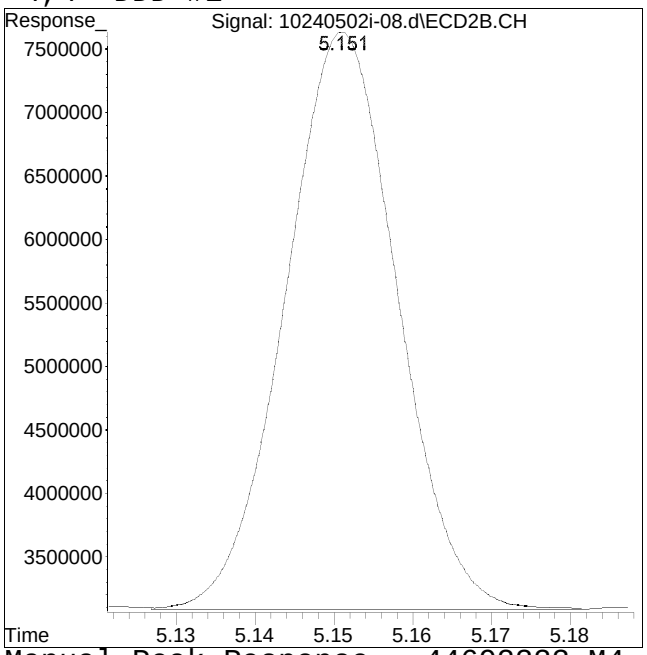
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-08.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 5:04 pm Instrument : Pest 10
Sample : il7pest,42e,,pp 11401 L0.0Quant Date : 5/7/2024 4:25 pm

Compound #57: 4,4'-DDD #2



Original Peak Response = 44713556



Manual Peak Response = 44692333 M4

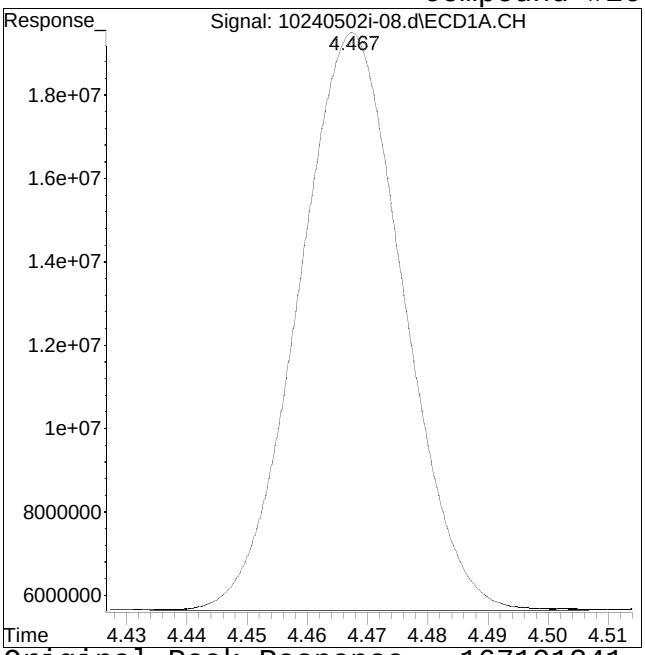
M4 = Poor automated baseline construction.

Manual Integration Report

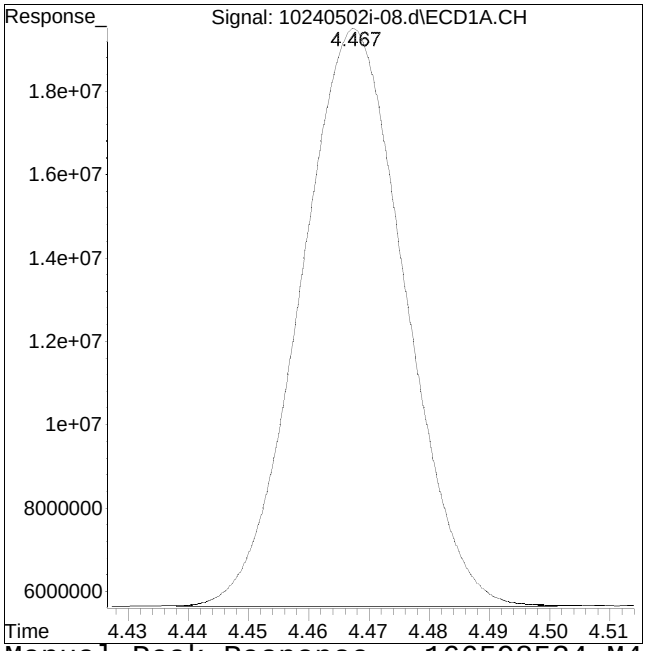
Data Path : I:\PEST\Pest10\2024\240502Q
Data File : 10240502i-08.d
Date Inj'd : 5/2/2024 5:04 pm
Sample : il7pest,42e,,pp 11401 L0.0

Method : pest10_2024_05_02_ugL_ic
Operator : PEST10:jag
Instrument : Pest 10
Quant Date : 5/7/2024 4:25 pm

Compound #20: Endosulfan II



Original Peak Response = 167191241



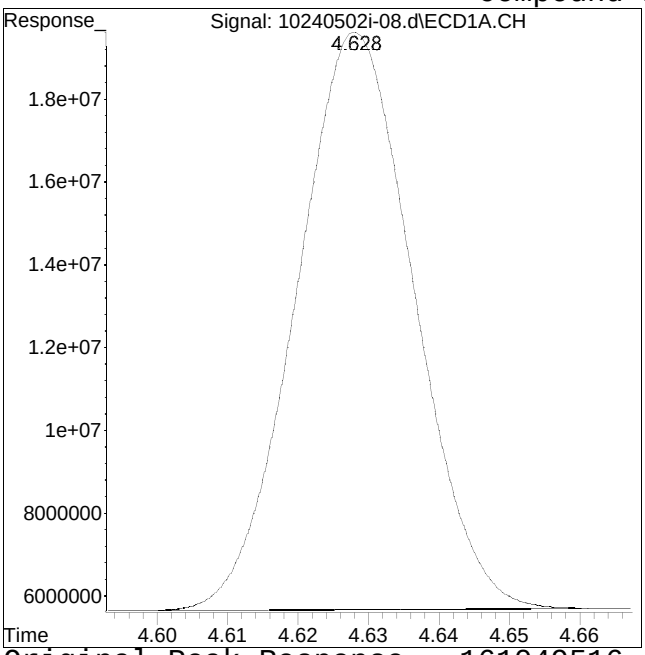
Manual Peak Response = 166598534 M4

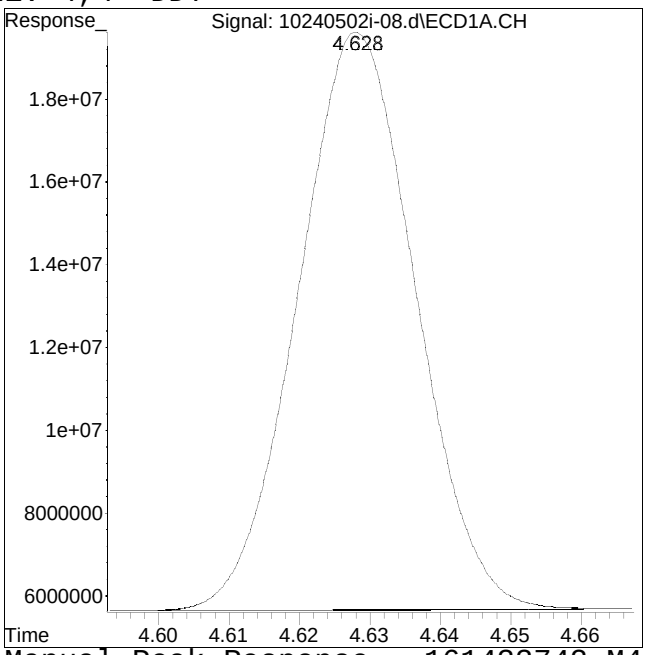
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-08.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 5:04 pm Instrument : Pest 10
Sample : il7pest,42e,,pp 11401 L0.0Quant Date : 5/7/2024 4:25 pm

Compound #21: 4,4'-DDT



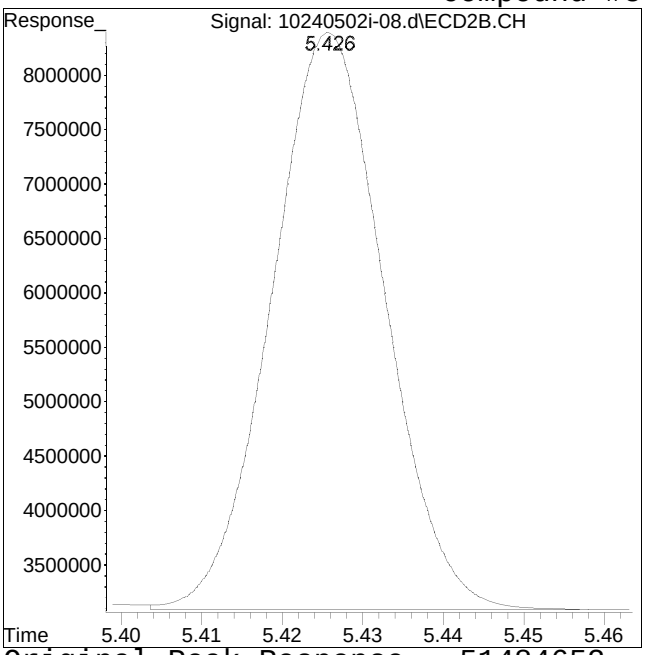


Original Peak Response = 161049516 Manual Peak Response = 161433742 M4
M4 = Poor automated baseline construction.

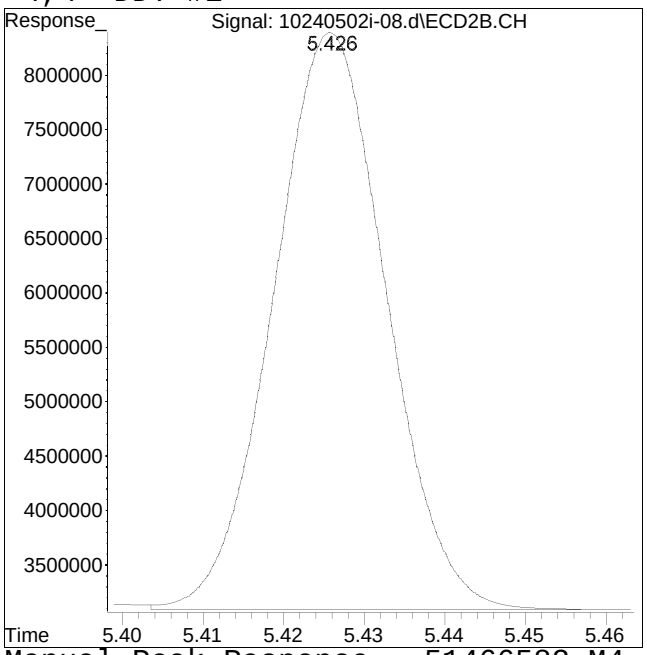
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-08.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 5:04 pm Instrument : Pest 10
Sample : il7pest,42e,,pp 11401 L0.0Quant Date : 5/7/2024 4:25 pm

Compound #59: 4,4'-DDT #2



Original Peak Response = 51484652

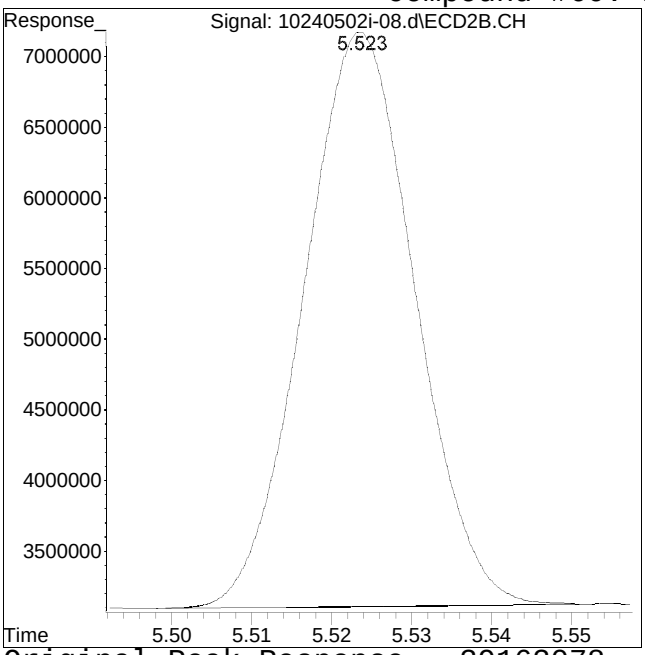


Manual Peak Response = 51466582 M4
M4 = Poor automated baseline construction.

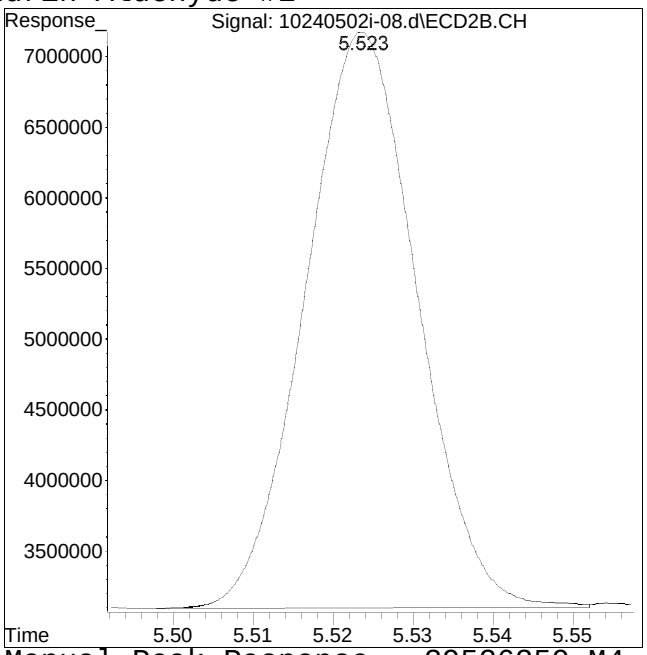
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-08.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 5:04 pm Instrument : Pest 10
Sample : il7pest,42e,,pp 11401 L0.0Quant Date : 5/7/2024 4:25 pm

Compound #60: Endrin Aldehyde #2



Original Peak Response = 39163078



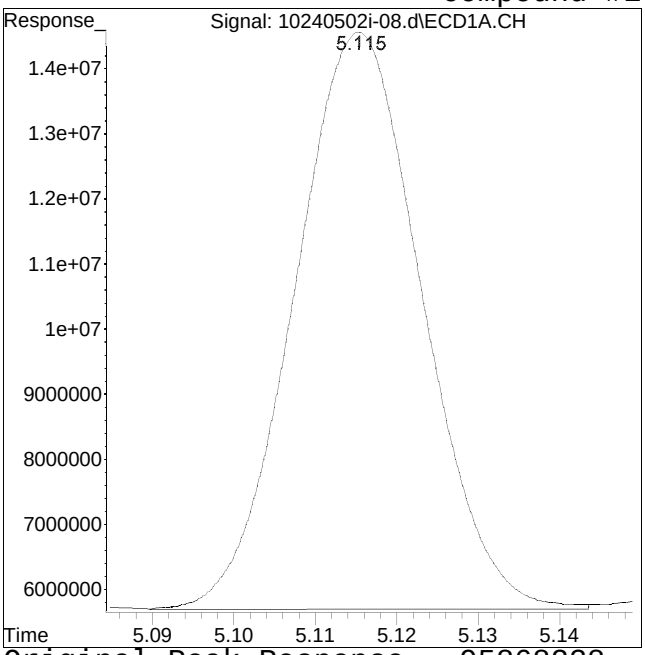
Manual Peak Response = 39526359 M4

M4 = Poor automated baseline construction.

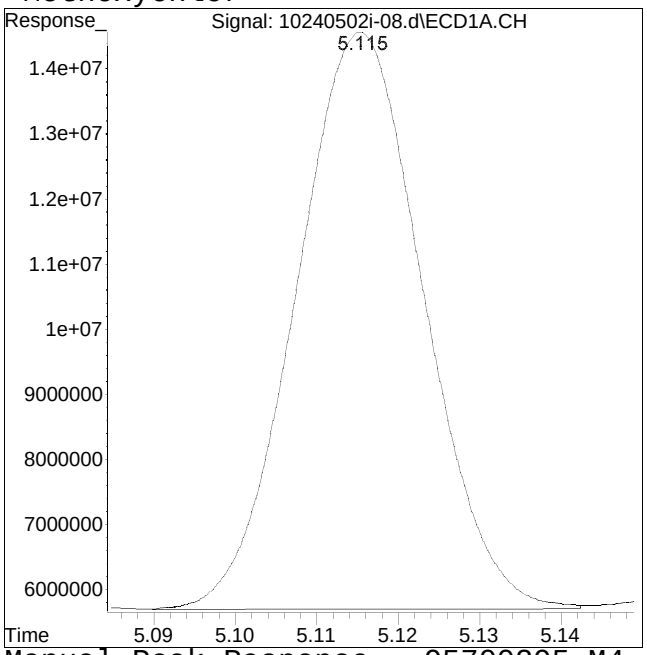
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-08.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 5:04 pm Instrument : Pest 10
Sample : il7pest,42e,,pp 11401 L0.0Quant Date : 5/7/2024 4:25 pm

Compound #23: Methoxychlor



Original Peak Response = 95868238



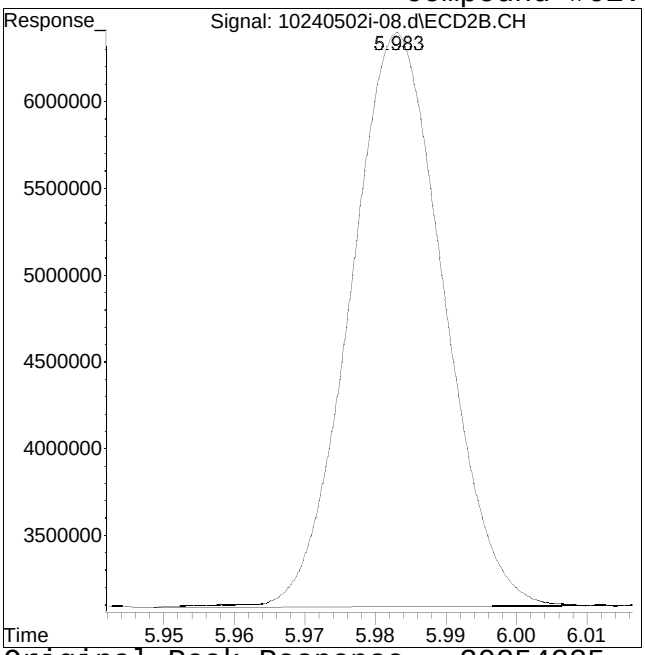
Manual Peak Response = 95700295 M4
M4 = Poor automated baseline construction.

Manual Integration Report

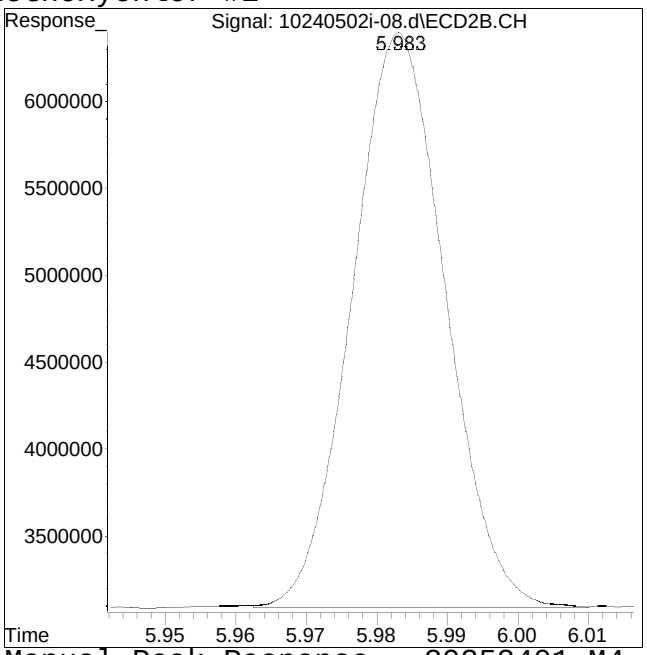
Data Path : I:\PEST\Pest10\2024\240502Q
Data File : 10240502i-08.d
Date Inj'd : 5/2/2024 5:04 pm
Sample : il7pest,42e,,pp 11401 L0.0

Method : pest10_2024_05_02_ugL_ic
Operator : PEST10:jag
Instrument : Pest 10
Quant Date : 5/7/2024 4:25 pm

Compound #61: Methoxychlor #2



Original Peak Response = 30354235



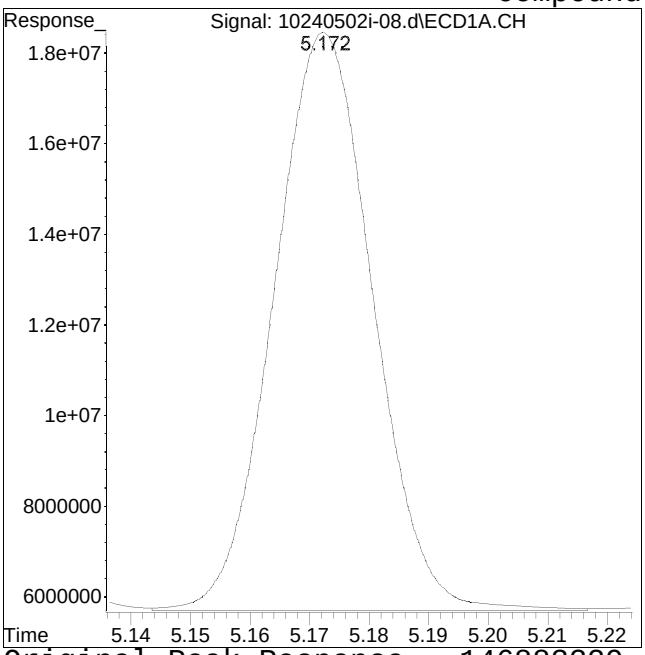
Manual Peak Response = 30252401 M4

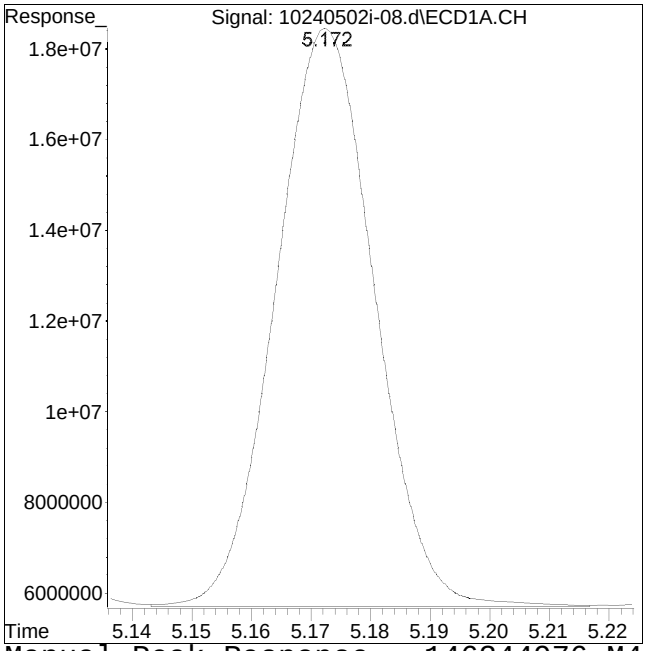
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-08.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 5:04 pm Instrument : Pest 10
Sample : il7pest,42e,,pp 11401 L0.0Quant Date : 5/7/2024 4:25 pm

Compound #24: Mirex





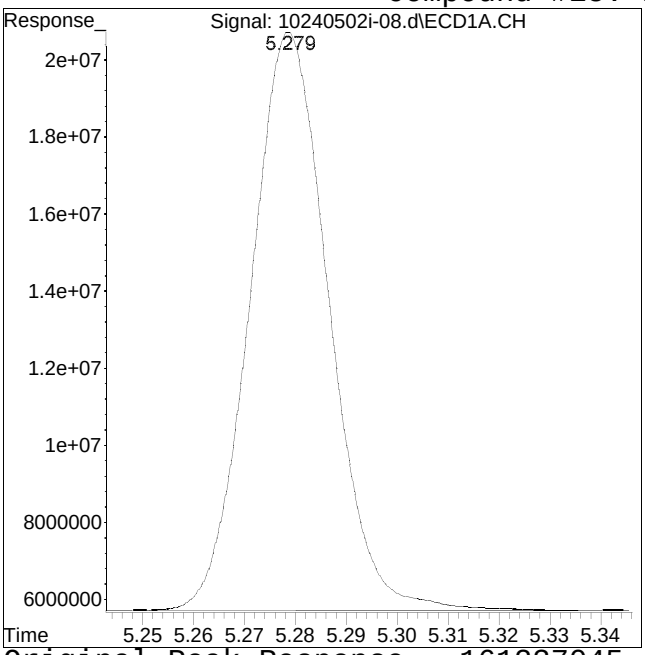
Original Peak Response = 146883329 Manual Peak Response = 146344976 M4
M4 = Poor automated baseline construction.

Manual Integration Report

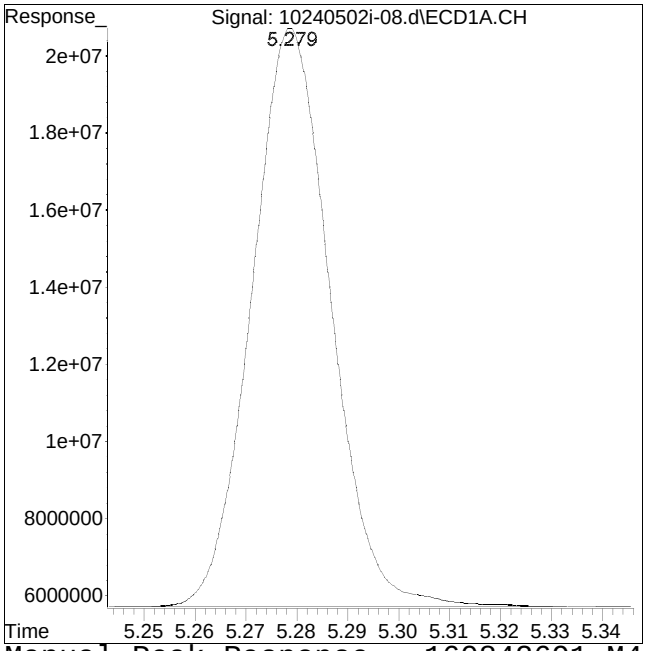
Data Path : I:\PEST\Pest10\2024\240502Q
Data File : 10240502i-08.d
Date Inj'd : 5/2/2024 5:04 pm
Sample : il7pest,42e,,pp 11401 L0.0

Method : pest10_2024_05_02_ugL_ic
Operator : PEST10:jag
Instrument : Pest 10
Quant Date : 5/7/2024 4:25 pm

Compound #25: Endosulfan Sulfate



Original Peak Response = 161237045



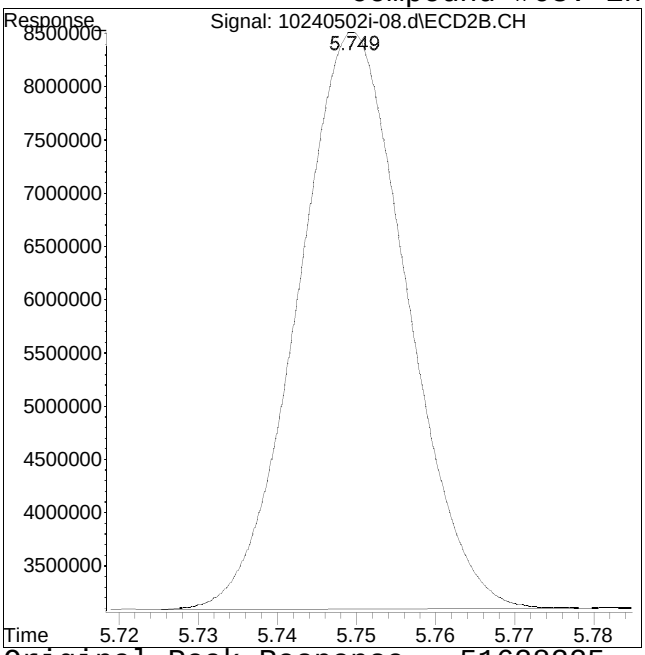
Manual Peak Response = 160842691 M4

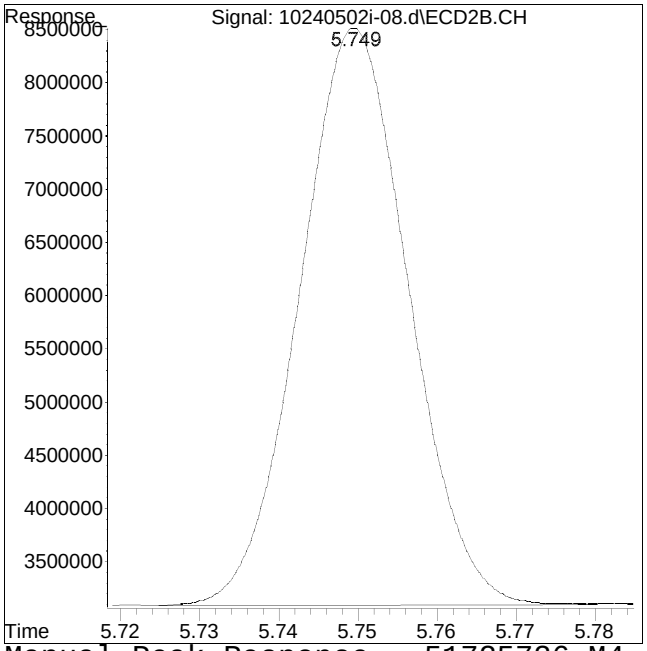
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-08.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 5:04 pm Instrument : Pest 10
Sample : il7pest,42e,,pp 11401 L0.0Quant Date : 5/7/2024 4:25 pm

Compound #63: Endosulfan Sulfate #2





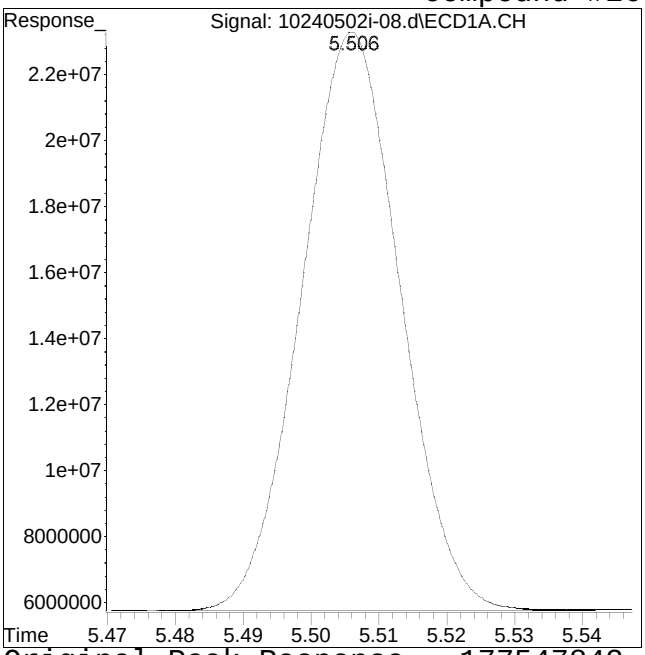
Original Peak Response = 51628225 Manual Peak Response = 51725726 M4
M4 = Poor automated baseline construction.

Manual Integration Report

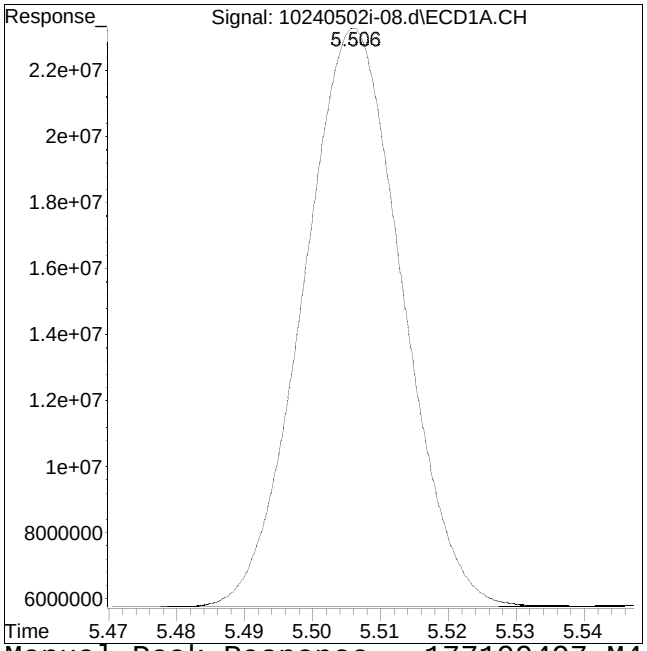
Data Path : I:\PEST\Pest10\2024\240502Q
Data File : 10240502i-08.d
Date Inj'd : 5/2/2024 5:04 pm
Sample : il7pest,42e,,pp 11401 L0.0

Method : pest10_2024_05_02_ugL_ic
Operator : PEST10:jag
Instrument : Pest 10
Quant Date : 5/7/2024 4:25 pm

Compound #26: Endrin Ketone



Original Peak Response = 177547842



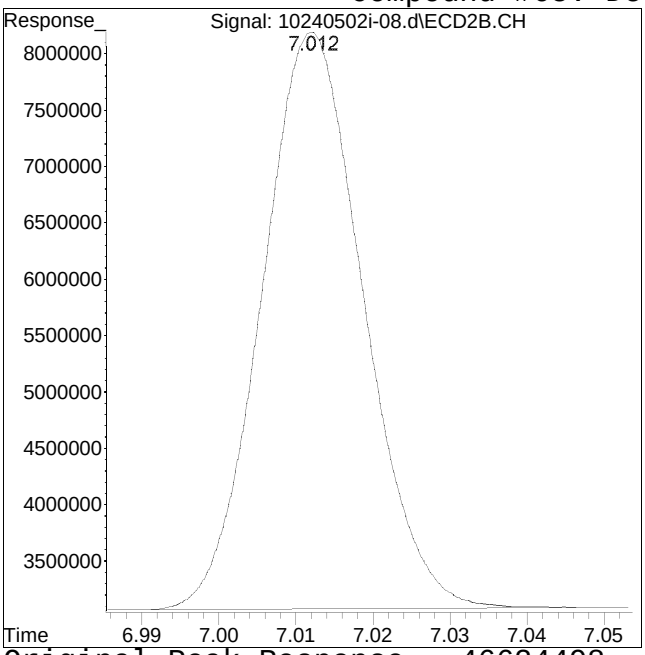
Manual Peak Response = 177199497 M4

M4 = Poor automated baseline construction.

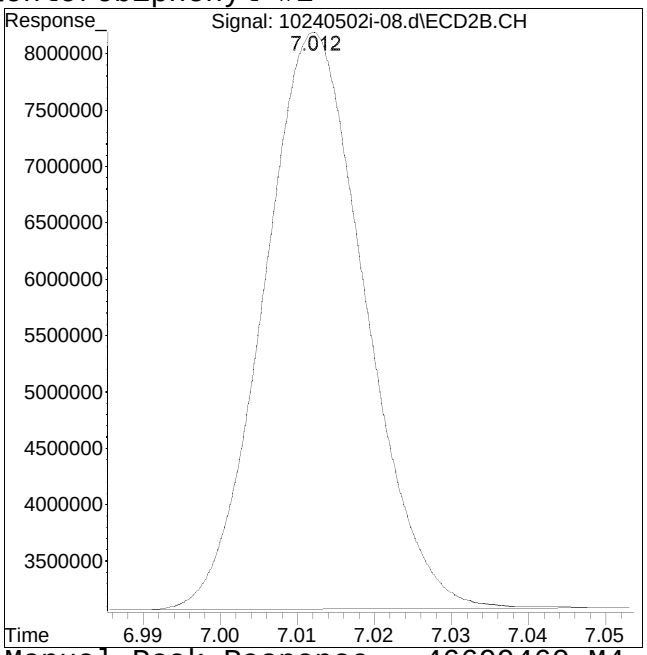
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-08.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 5:04 pm Instrument : Pest 10
Sample : il7pest,42e,,pp 11401 L0.0Quant Date : 5/7/2024 4:25 pm

Compound #65: Decachlorobiphenyl #2



Original Peak Response = 46624498



Manual Peak Response = 46699460 M4

M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest10\2024\240502ical\
Data File : 10240502i-09.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 May 2024 5:14 pm
Operator : PEST10:jag
Sample : il8pest,42e,,pp 11400 L0.05
Misc : wg1919460, (Sig #1); ical (Sig #2)
ALS Vial : 9 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 07 17:40:13 2024
Quant Method : I:\PEST\Pest10\2024\240502ical\pest10_2024_05_02_ugL_ical.m
Quant Title : pest
QLast Update : Tue May 07 17:39:24 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	1.317	1.428	377.7E6	136.7E6	25.000M4	25.000M4
28) i	1-br-2-nb_Ch	0.000	0.000	0	0	N.D. d	N.D. d
33) i	1-br-2-nb_To	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	1.662	1.920	747.0E6	252.3E6	45.556M3	49.090
	Spiked Amount 50.000	Range 30 - 150		Recovery =		91.11%	98.18%
27) s	Decachlorobi	6.306	7.012	625.9E6	205.2E6	44.559	45.124M4
	Spiked Amount 50.000	Range 30 - 150		Recovery =		89.12%	90.25%
	Target Compounds						
3) t	Hexachlorobe	1.877	2.251	794.8E6	276.7E6	45.360	46.844
4) t	alpha-BHC	1.976	2.350	1127.2E6	379.0E6	49.400M4	51.788M4
5) t	gamma-BHC (l	2.179	2.644	1028.5E6	347.1E6	47.559M3	50.502M4
6) t	beta-BHC	2.235	2.709	429.7E6	150.1E6	44.764	46.154M4
7) t	delta-BHC	2.364	2.984	1040.6E6	352.0E6	48.770	50.994M4
8) t	Heptachlor	2.526	3.053	977.0E6	335.7E6	47.572M4	49.179M4
9) t	Aldrin	2.769	3.381	929.5E6	310.3E6	47.990M3	49.915M4
10) t	Alachlor	2.891	3.258	136.1E6	48513413	56.327M4	44.654
11) t	Chlorpyrifos	2.982	3.620	420.0E6	155.6E6	57.145M4	47.516M4
12) t	Heptachlor E	3.316	4.011	861.9E6	298.1E6	46.714	47.963

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest10\2024\240502ical\
Data File : 10240502i-09.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 May 2024 5:14 pm
Operator : PEST10:jag
Sample : il8pest,42e,,pp 11400 L0.05
Misc : wg1919460, (Sig #1); ical (Sig #2)
ALS Vial : 9 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 07 17:40:13 2024
Quant Method : I:\PEST\Pest10\2024\240502ical\pest10_2024_05_02_ugL_ical.m
Quant Title : pest
QLast Update : Tue May 07 17:39:24 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

		Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
13)	t	gamma-Chlord	3.440	4.234	776.0E6	263.9E6	45.972	47.733
14)	t	alpha-Chlord	3.574	4.399	874.4E6	297.5E6	45.604	47.843
15)	t	4,4'-DDE	3.671	4.587	875.9E6	290.0E6	48.237	50.440M4
16)	t	Endosulfan I	3.712	4.458	822.0E6	279.9E6	46.614	48.395M4
17)	t	Dieldrin	3.972	4.743	862.0E6	286.2E6	47.541	49.455
18)	t	Endrin	4.228	5.036	886.6E6	296.3E6	47.609M4	49.891M4
19)	t	4,4'-DDD	4.335	5.151	702.3E6	229.5E6	47.579M4	49.594M3
20)	t	Endosulfan I	4.467	5.230	770.5E6	259.8E6	47.937M4	49.953M4
21)	t	4,4'-DDT	4.628	5.426	767.6E6	259.3E6	46.992M3	49.426
22)	t	Endrin Aldeh	4.886	5.523	602.3E6	204.6E6	46.788	50.153M4
23)	t	Methoxychlor	5.115	5.984	414.1E6	137.2E6	54.892M4	47.565
24)	t	Mirex	5.172	6.127	628.1E6	208.7E6	50.918M4	45.610M4
25)	t	Endosulfan S	5.279	5.750	731.9E6	246.2E6	45.918M4	47.482M4
26)	t	Endrin Keton	5.505	6.160	820.7E6	275.0E6	46.943M4	48.681M4
29)	l1	chlordane-1	0.000	0.000	0	0	N.D. d	N.D. d
30)	l1	chlordane-3	0.000	0.000	0	0	N.D. d	N.D. d
31)	l1	chlordane-4	0.000	0.000	0	0	N.D. d	N.D. d
32)	l1	chlordane-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum	chlordane-1			0	0	N.D.	N.D.
Average		chlordane-1					0.000	0.000
34)	l2	toxaphene-1	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\PEST\Pest10\2024\240502ical\
Data File : 10240502i-09.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 May 2024 5:14 pm
Operator : PEST10:jag
Sample : il8pest,42e,,pp 11400 L0.05
Misc : wg1919460, (Sig #1); ical (Sig #2)
ALS Vial : 9 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 07 17:40:13 2024
Quant Method : I:\PEST\Pest10\2024\240502ical\pest10_2024_05_02_ugL_ical.m
Quant Title : pest
QLast Update : Tue May 07 17:39:24 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
35) l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
36) l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
37) l2	toxaphene-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

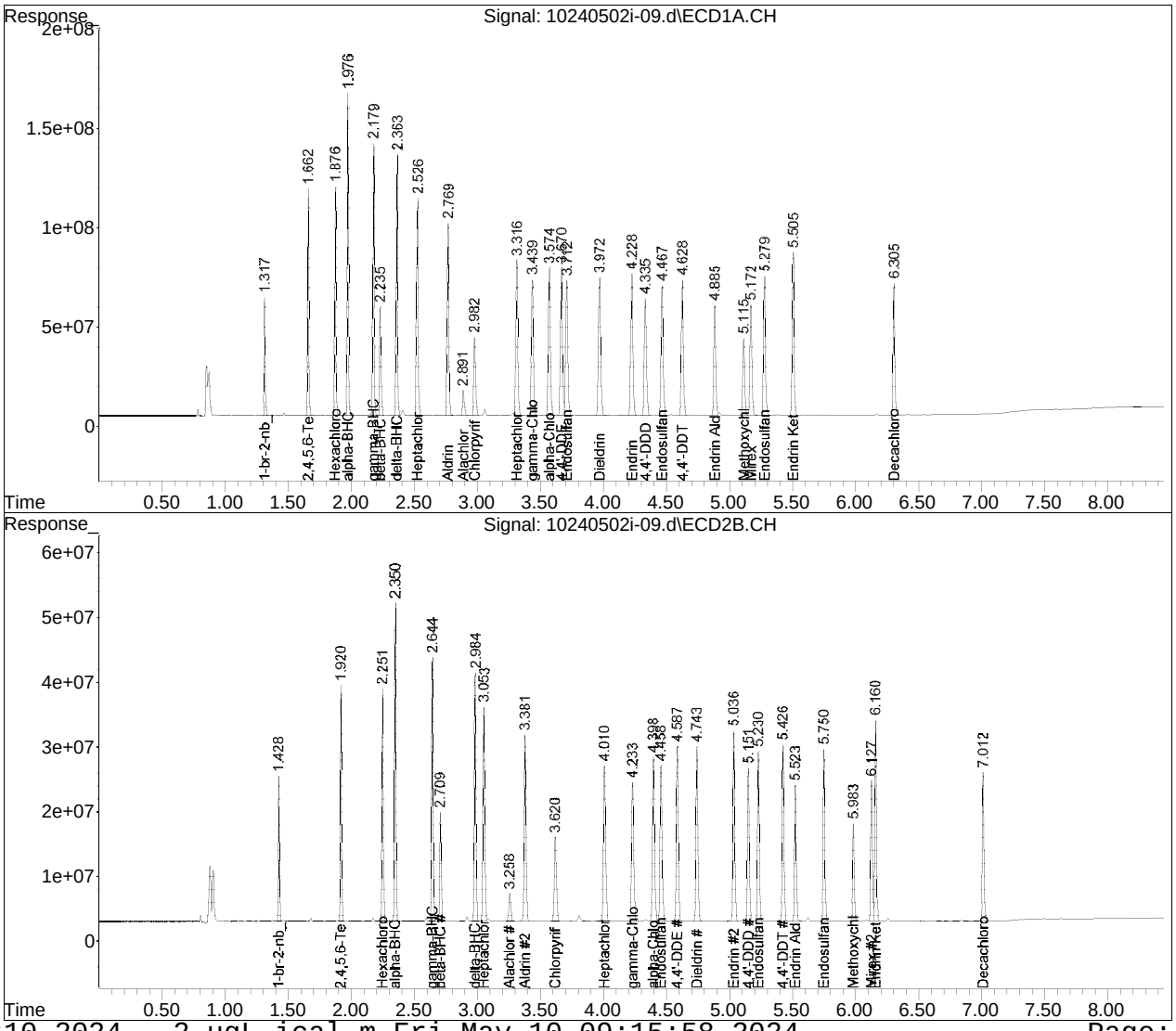
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest10\2024\240502ical\
Data File : 10240502i-09.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 May 2024 5:14 pm
Operator : PEST10:jag
Sample : il8pest,42e,,pp 11400 L0.05
Misc : wg1919460, (Sig #1); ical (Sig #2)
ALS Vial : 9 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 07 17:40:13 2024
Quant Method : I:\PEST\Pest10\2024\240502ical\pest10_2024_05_02_ugL_ical.m
Quant Title : pest
QLast Update : Tue May 07 17:39:24 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

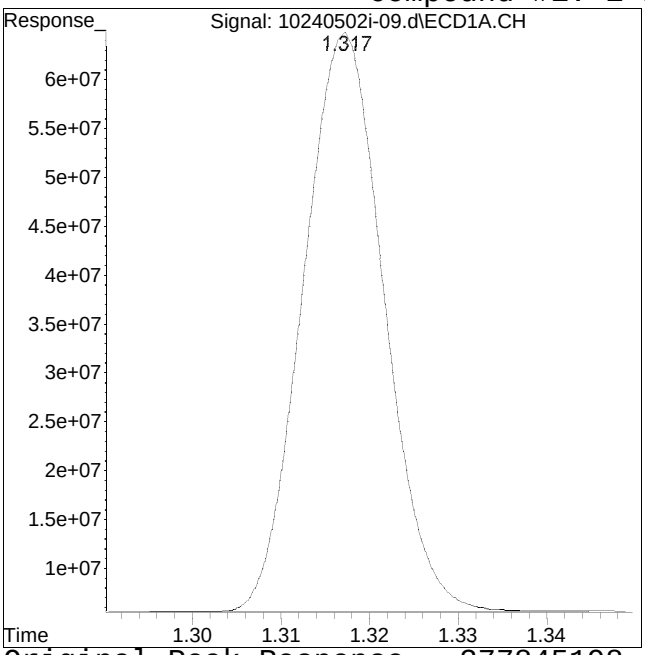
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

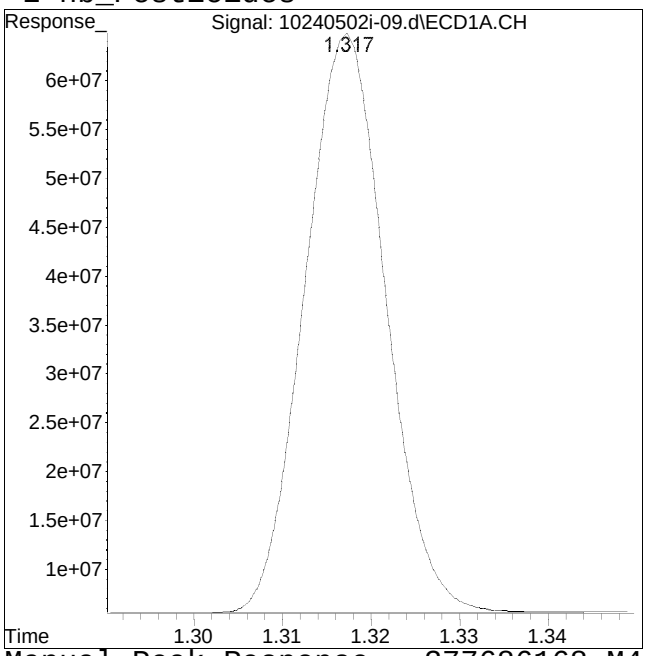


Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-09.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 5:14 pm Instrument : Pest 10
Sample : il8pest,42e,,pp 11400 L0.0Quant Date : 5/7/2024 5:40 pm

Compound #1: 1-br-2-nb_Pesticides





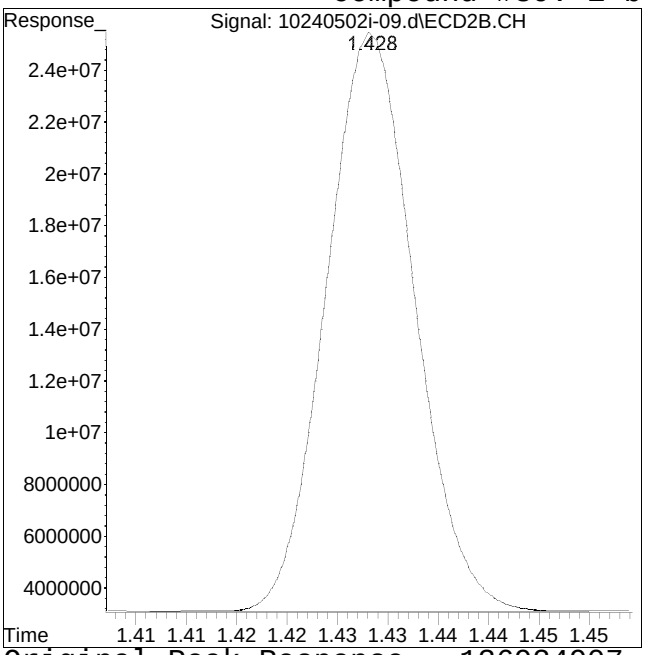
Original Peak Response = 377845198 Manual Peak Response = 377686168 M4
M4 = Poor automated baseline construction.

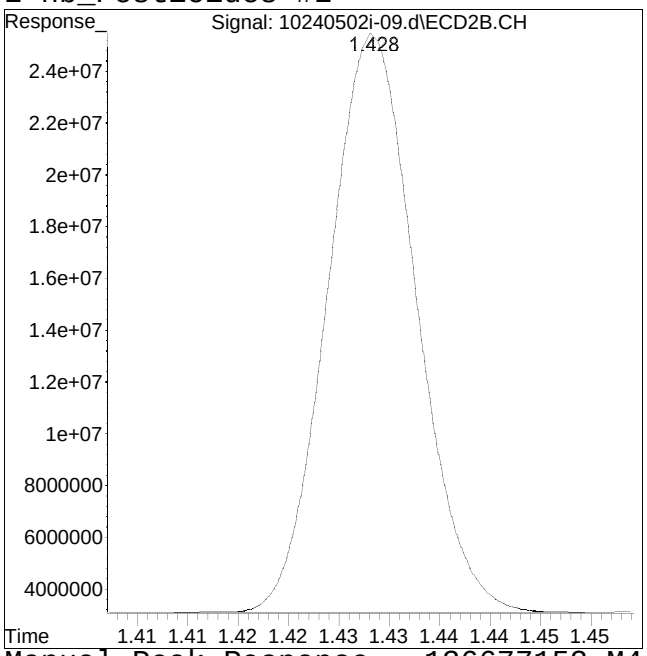
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502Q
Data File : 10240502i-09.d
Date Inj'd : 5/2/2024 5:14 pm
Sample : il8pest,42e,,pp 11400 L0.0

Method : pest10_2024_05_02_ugL_ic
Operator : PEST10:jag
Instrument : Pest 10
Quant Date : 5/7/2024 5:40 pm

Compound #39: 1-br-2-nb_Pesticides #2



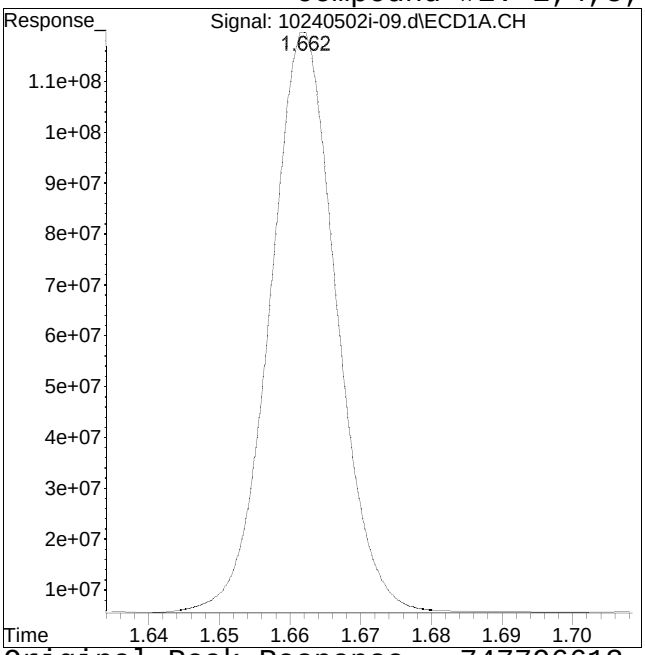


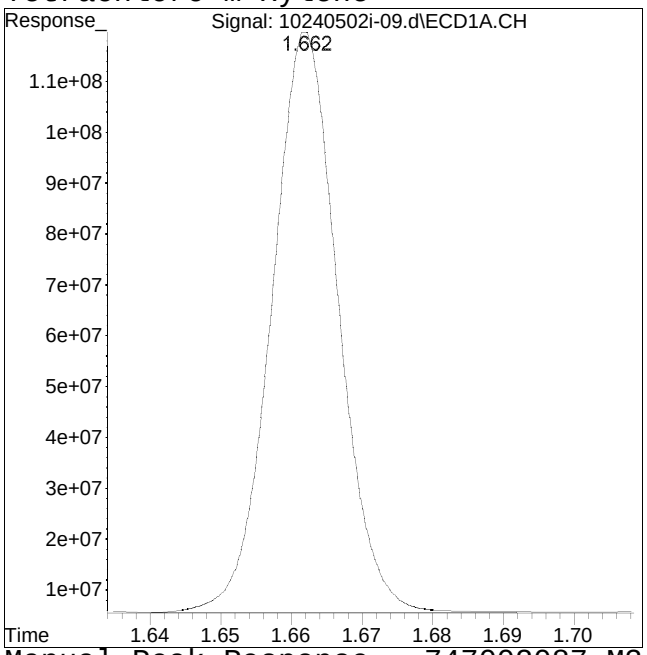
Original Peak Response = 136924907 Manual Peak Response = 136677152 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-09.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 5:14 pm Instrument : Pest 10
Sample : il8pest,42e,,pp 11400 L0.0Quant Date : 5/7/2024 5:40 pm

Compound #2: 2,4,5,6-Tetrachloro-m-xylene



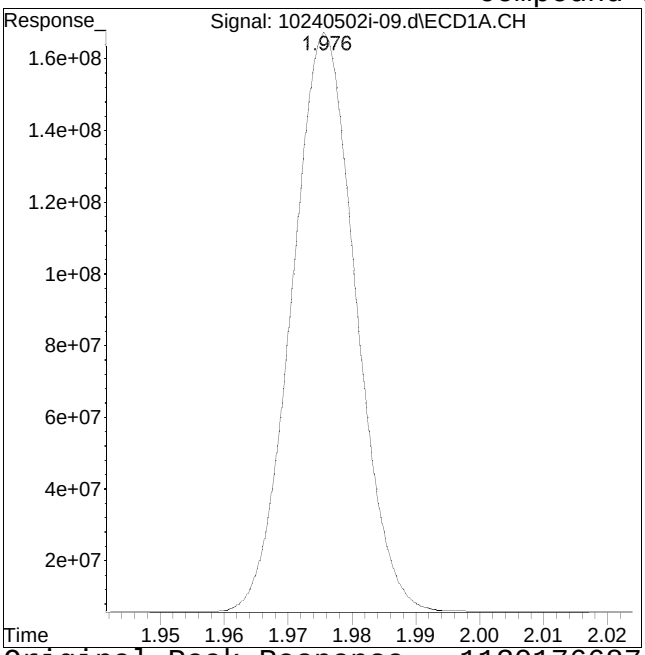


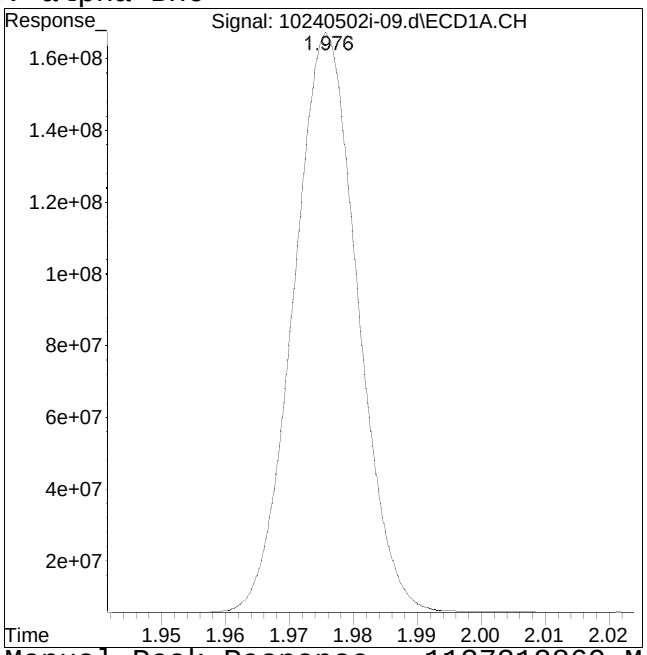
Original Peak Response = 747796613 Manual Peak Response = 747002087 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-09.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 5:14 pm Instrument : Pest 10
Sample : il8pest,42e,,pp 11400 L0.0Quant Date : 5/7/2024 5:40 pm

Compound #4: alpha-BHC



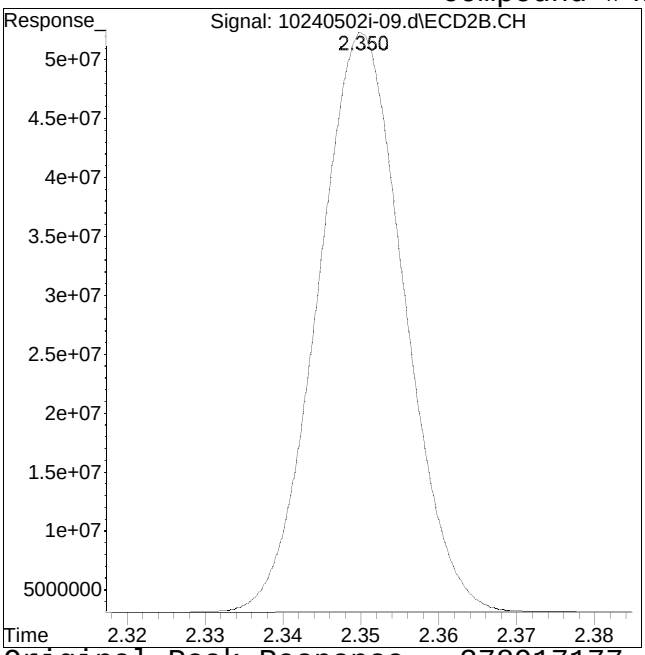


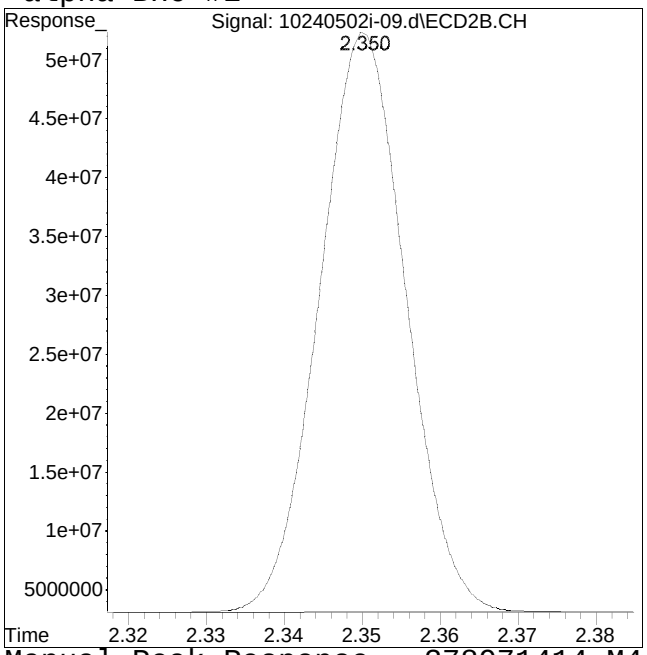
Original Peak Response = 1130176687 Manual Peak Response = 1127212869 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-09.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 5:14 pm Instrument : Pest 10
Sample : il8pest,42e,,pp 11400 L0.0Quant Date : 5/7/2024 5:40 pm

Compound #42: alpha-BHC #2



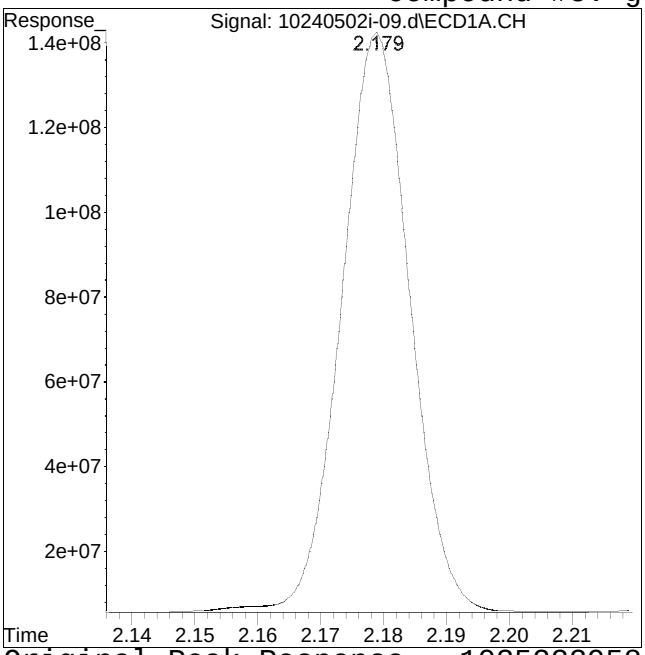


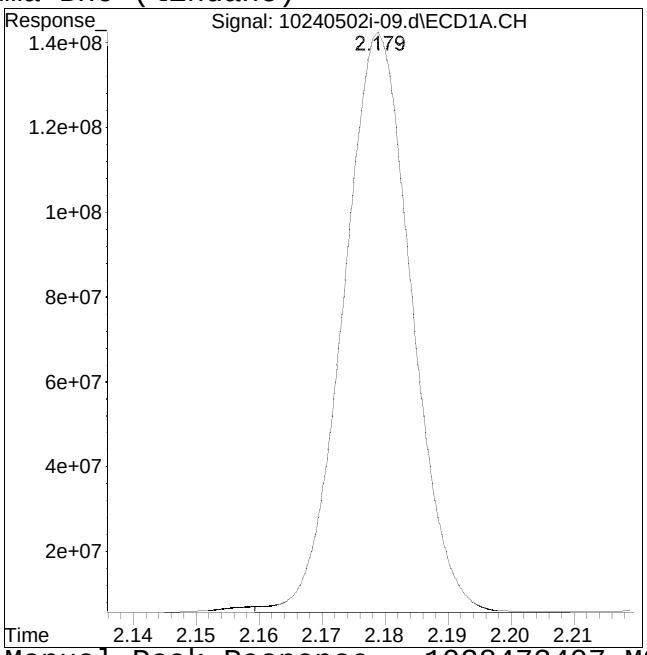
Original Peak Response = 378917177 Manual Peak Response = 378971414 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-09.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 5:14 pm Instrument : Pest 10
Sample : il8pest,42e,,pp 11400 L0.0Quant Date : 5/7/2024 5:40 pm

Compound #5: gamma-BHC (lindane)





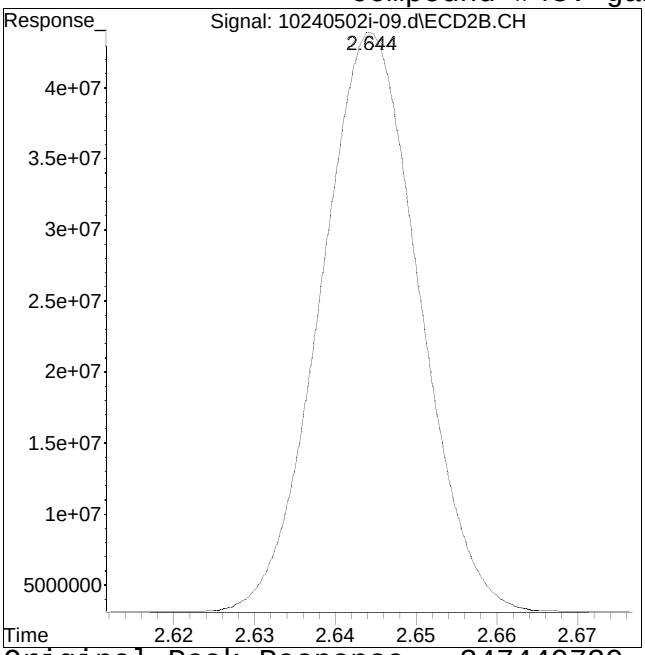
Original Peak Response = 1035223958 Manual Peak Response = 1028473407 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

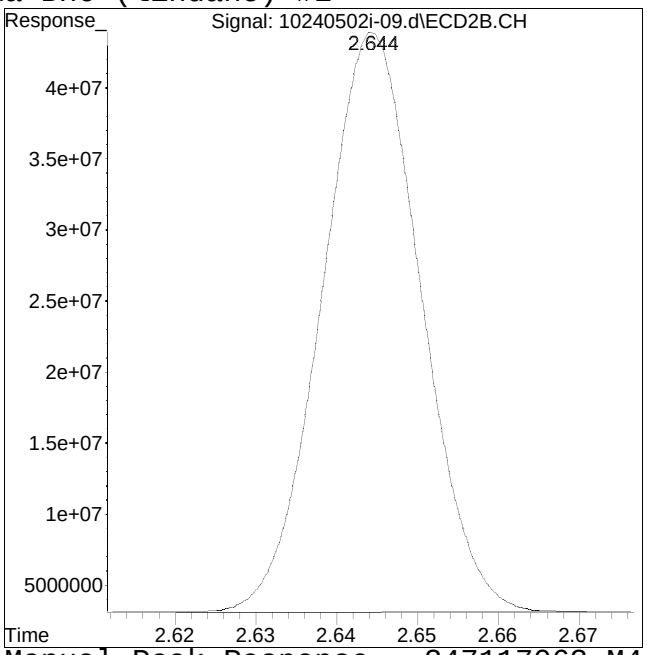
Data Path : I:\PEST\Pest10\2024\240502Q
Data File : 10240502i-09.d
Date Inj'd : 5/2/2024 5:14 pm
Sample : il8pest,42e,,pp 11400 L0.0

Method : pest10_2024_05_02_ugL_ic
Operator : PEST10:jag
Instrument : Pest 10
Quant Date : 5/7/2024 5:40 pm

Compound #43: gamma-BHC (lindane) #2



Original Peak Response = 347449739



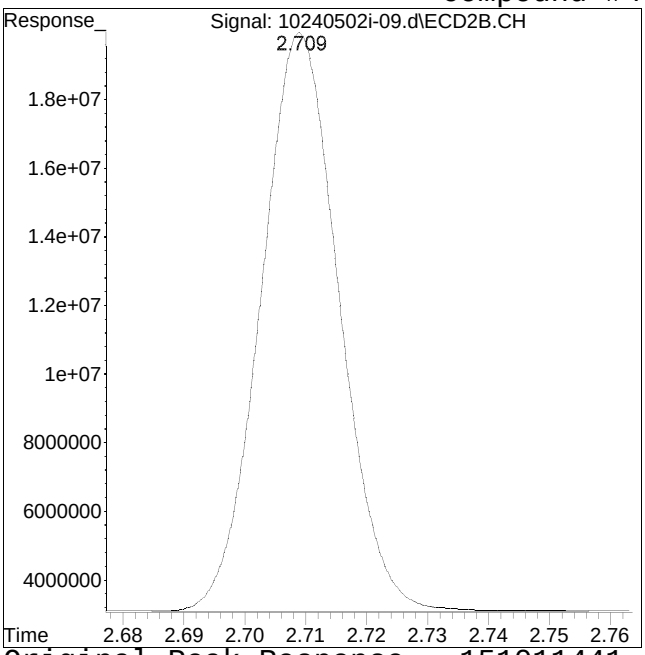
Manual Peak Response = 347117063 M4

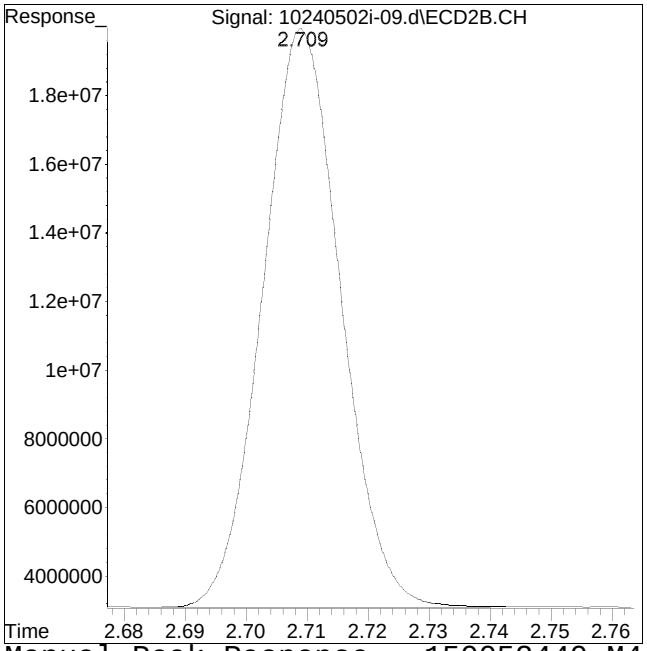
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-09.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 5:14 pm Instrument : Pest 10
Sample : il8pest,42e,,pp 11400 L0.0Quant Date : 5/7/2024 5:40 pm

Compound #44: beta-BHC #2



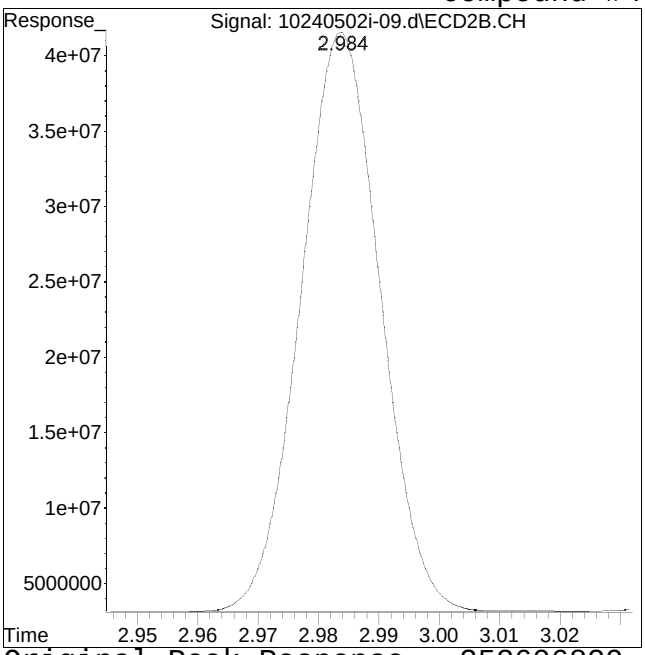


Original Peak Response = 151011441 Manual Peak Response = 150052440 M4
M4 = Poor automated baseline construction.

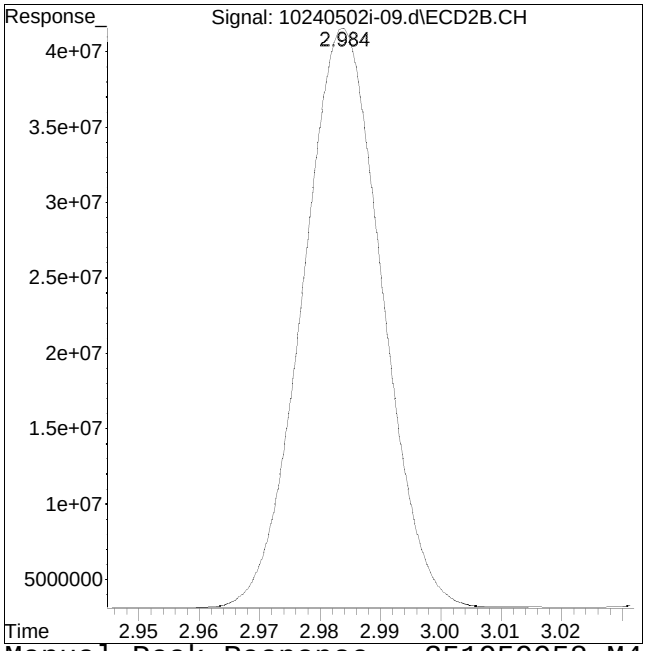
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-09.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 5:14 pm Instrument : Pest 10
Sample : il8pest,42e,,pp 11400 L0.0Quant Date : 5/7/2024 5:40 pm

Compound #45: delta-BHC #2



Original Peak Response = 352606829

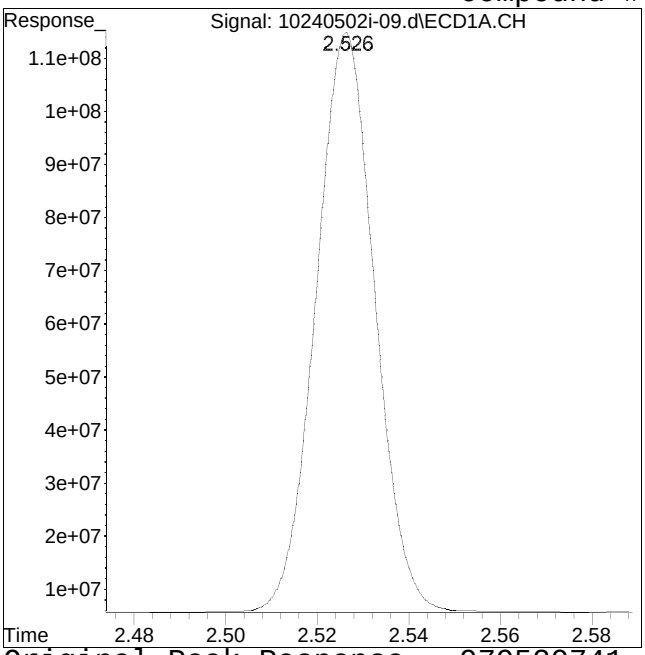


Manual Peak Response = 351959958 M4
M4 = Poor automated baseline construction.

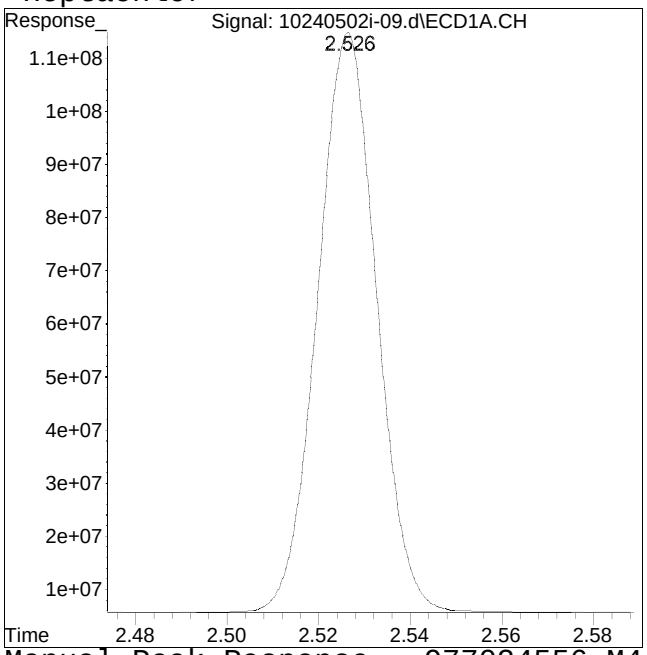
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-09.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 5:14 pm Instrument : Pest 10
Sample : il8pest,42e,,pp 11400 L0.0Quant Date : 5/7/2024 5:40 pm

Compound #8: Heptachlor



Original Peak Response = 979520741

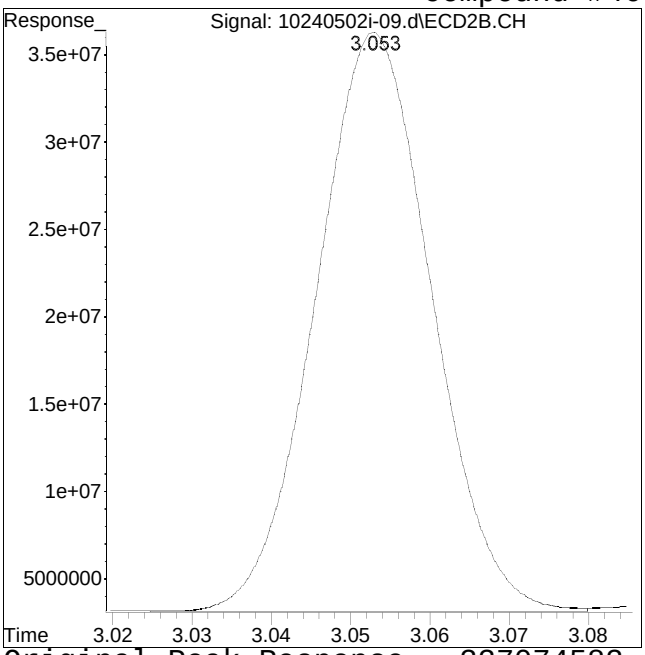


Manual Peak Response = 977024556 M4
M4 = Poor automated baseline construction.

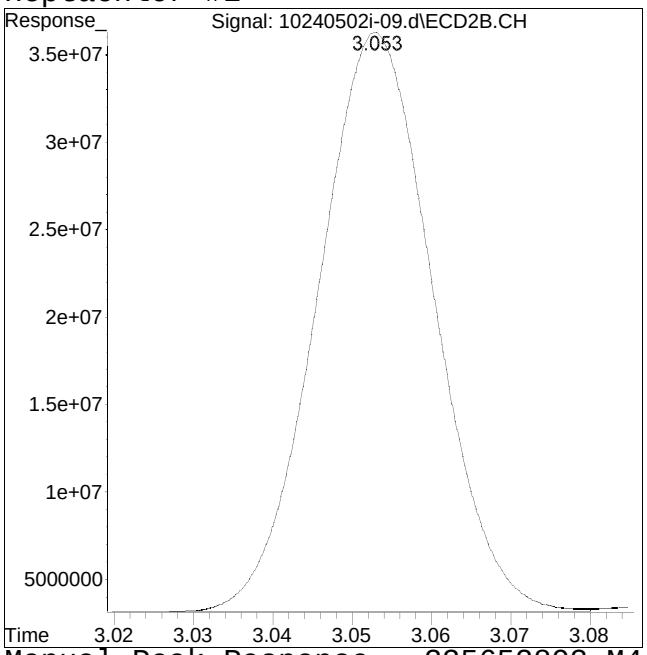
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-09.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 5:14 pm Instrument : Pest 10
Sample : il8pest,42e,,pp 11400 L0.0Quant Date : 5/7/2024 5:40 pm

Compound #46: Heptachlor #2



Original Peak Response = 337074583



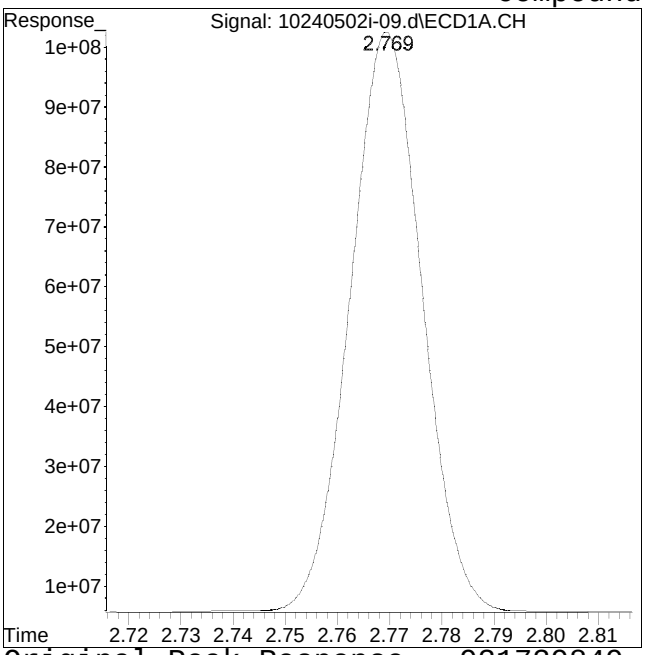
Manual Peak Response = 335652893 M4

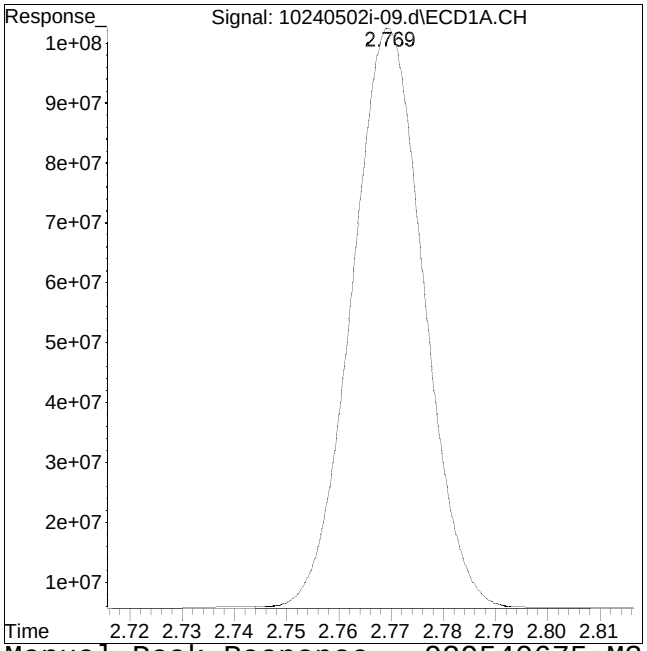
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-09.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 5:14 pm Instrument : Pest 10
Sample : il8pest,42e,,pp 11400 L0.0Quant Date : 5/7/2024 5:40 pm

Compound #9: Aldrin



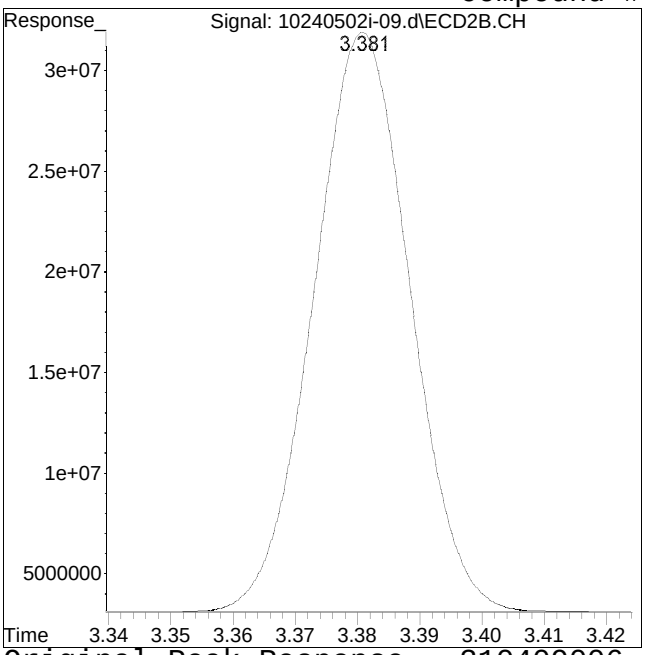


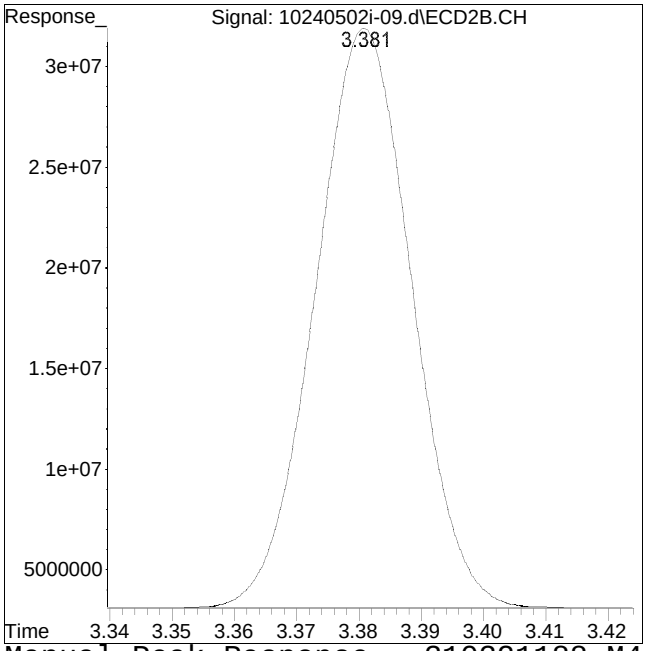
Original Peak Response = 931739849 Manual Peak Response = 929540675 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-09.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 5:14 pm Instrument : Pest 10
Sample : il8pest,42e,,pp 11400 L0.0Quant Date : 5/7/2024 5:40 pm

Compound #47: Aldrin #2



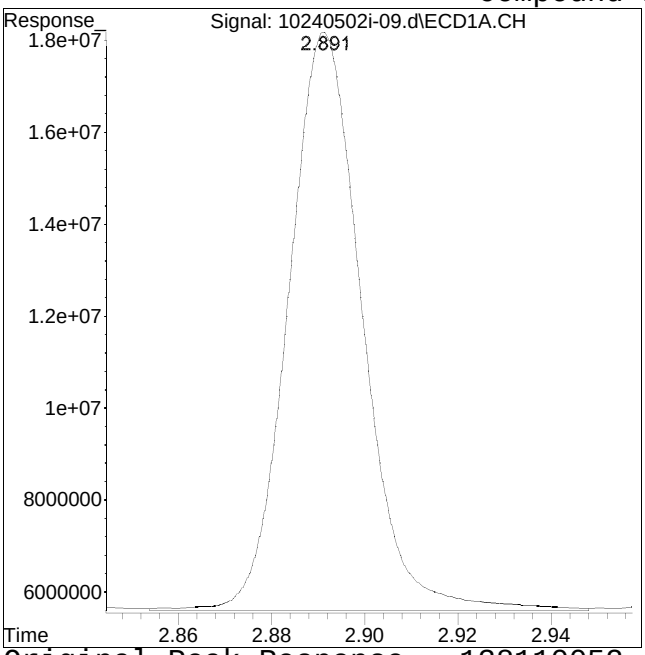


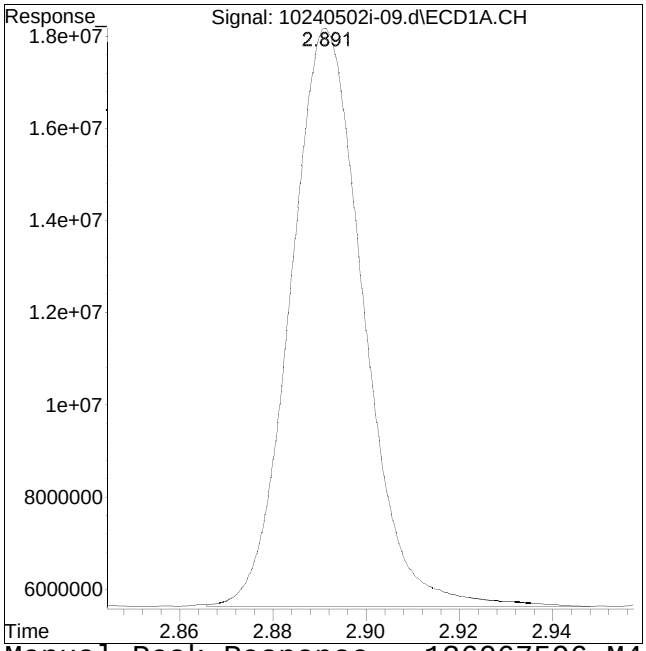
Original Peak Response = 310409006 Manual Peak Response = 310321188 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-09.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 5:14 pm Instrument : Pest 10
Sample : il8pest,42e,,pp 11400 L0.0Quant Date : 5/7/2024 5:40 pm

Compound #10: Alachlor



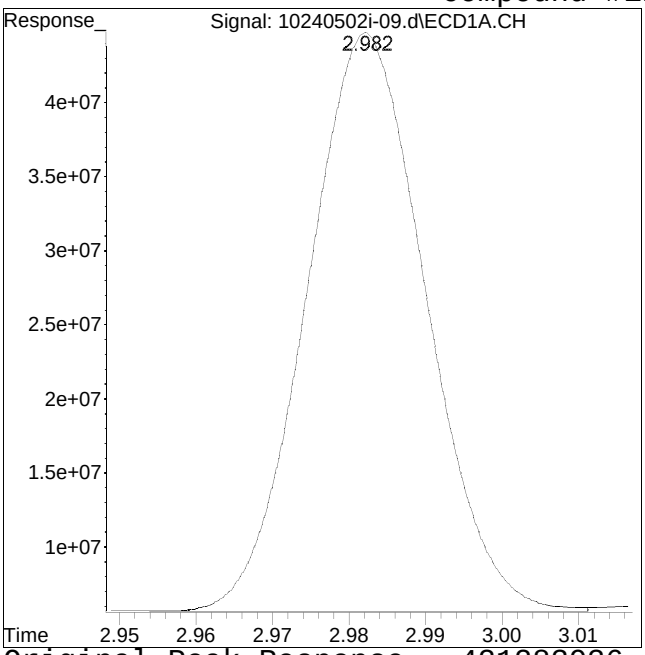


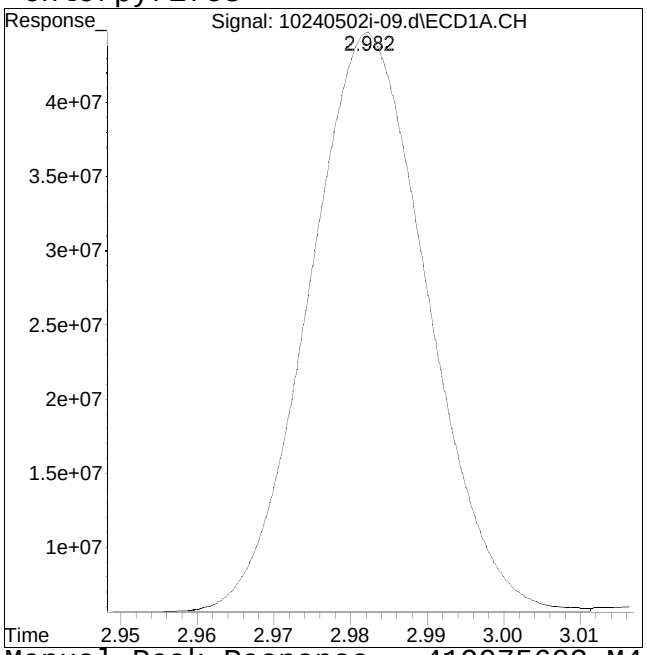
Original Peak Response = 138110052 Manual Peak Response = 136067596 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-09.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 5:14 pm Instrument : Pest 10
Sample : il8pest,42e,,pp 11400 L0.0Quant Date : 5/7/2024 5:40 pm

Compound #11: Chlorpyrifos





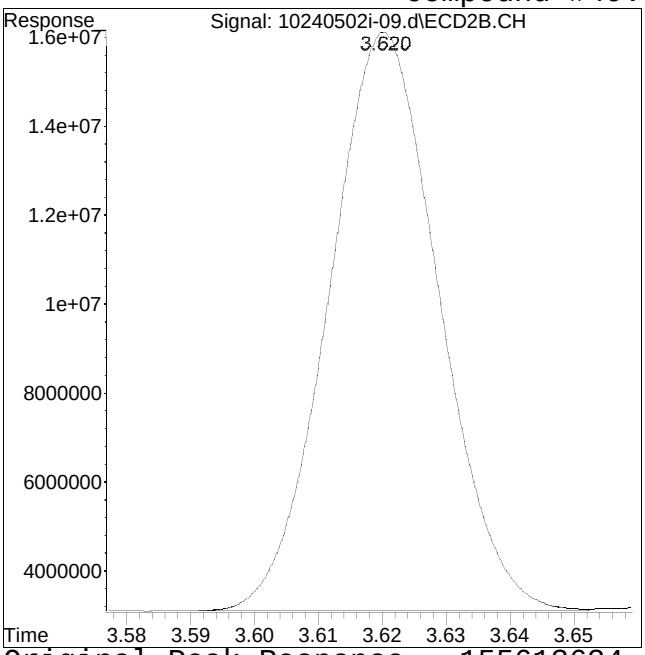
Original Peak Response = 421283936 Manual Peak Response = 419975693 M4
M4 = Poor automated baseline construction.

Manual Integration Report

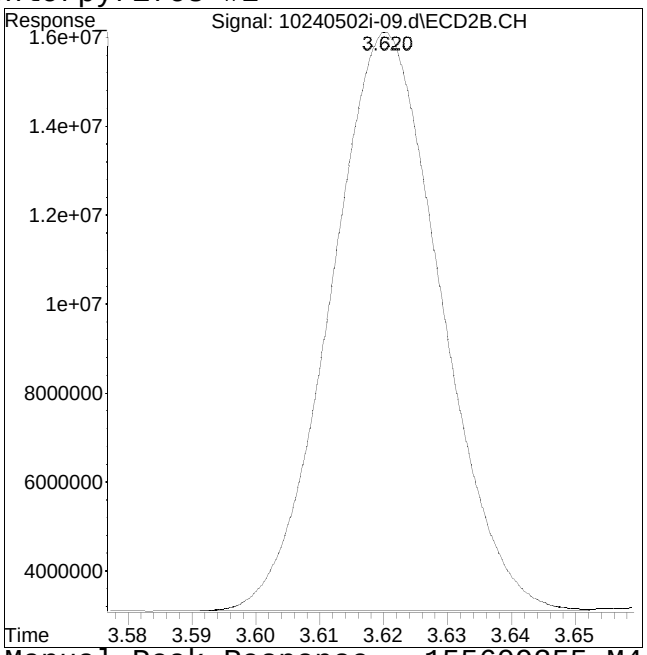
Data Path : I:\PEST\Pest10\2024\240502Q
Data File : 10240502i-09.d
Date Inj'd : 5/2/2024 5:14 pm
Sample : il8pest,42e,,pp 11400 L0.0

Method : pest10_2024_05_02_ugL_ic
Operator : PEST10:jag
Instrument : Pest 10
Quant Date : 5/7/2024 5:40 pm

Compound #49: Chlorpyrifos #2



Original Peak Response = 155613634



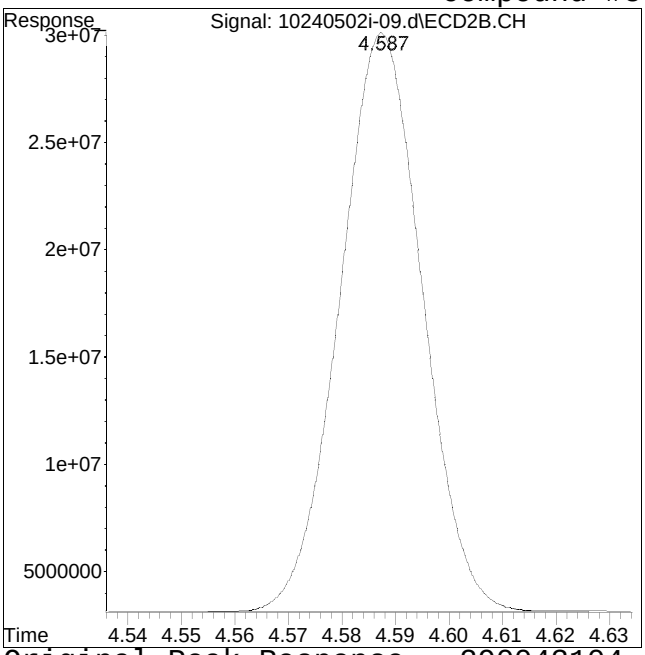
Manual Peak Response = 155609355 M4

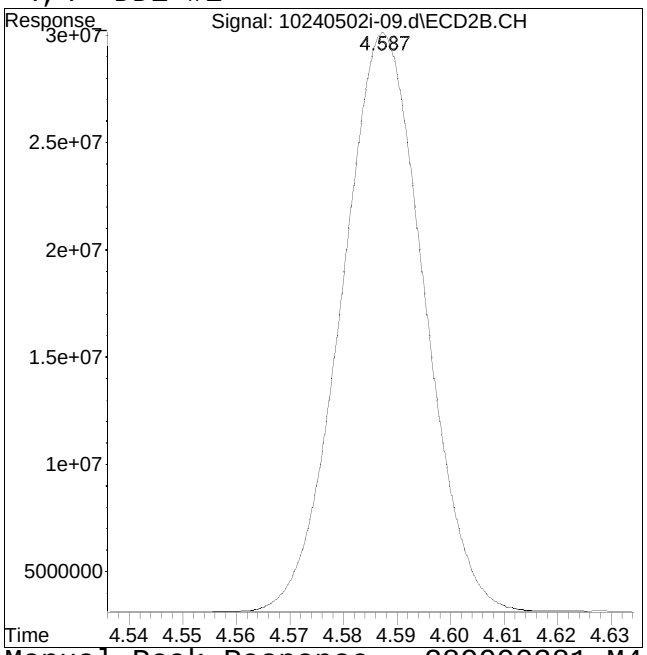
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-09.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 5:14 pm Instrument : Pest 10
Sample : il8pest,42e,,pp 11400 L0.0Quant Date : 5/7/2024 5:40 pm

Compound #53: 4,4'-DDE #2





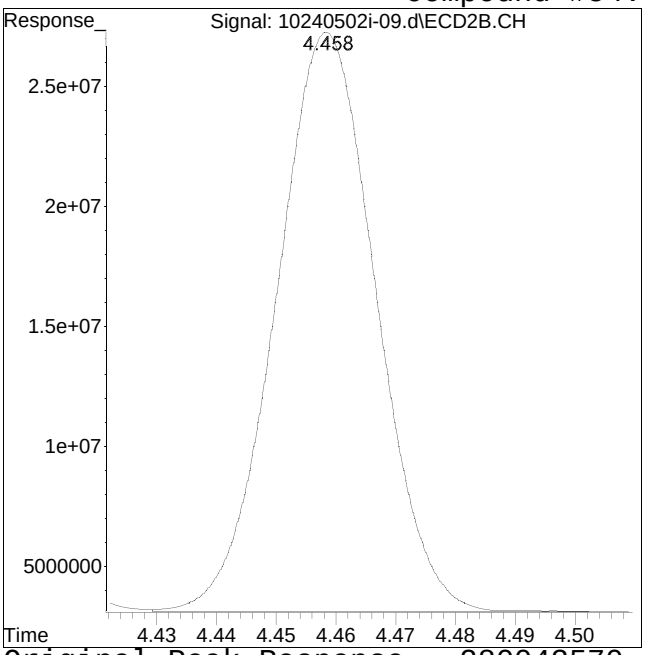
Original Peak Response = 290043104 Manual Peak Response = 289990381 M4
M4 = Poor automated baseline construction.

Manual Integration Report

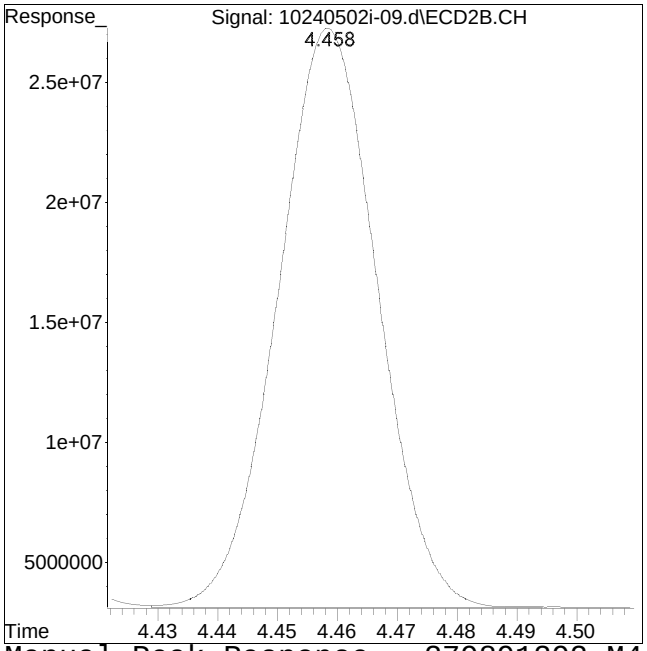
Data Path : I:\PEST\Pest10\2024\240502Q
Data File : 10240502i-09.d
Date Inj'd : 5/2/2024 5:14 pm
Sample : il8pest,42e,,pp 11400 L0.0

Method : pest10_2024_05_02_ugL_ic
Operator : PEST10:jag
Instrument : Pest 10
Quant Date : 5/7/2024 5:40 pm

Compound #54: Endosulfan I #2



Original Peak Response = 280043570



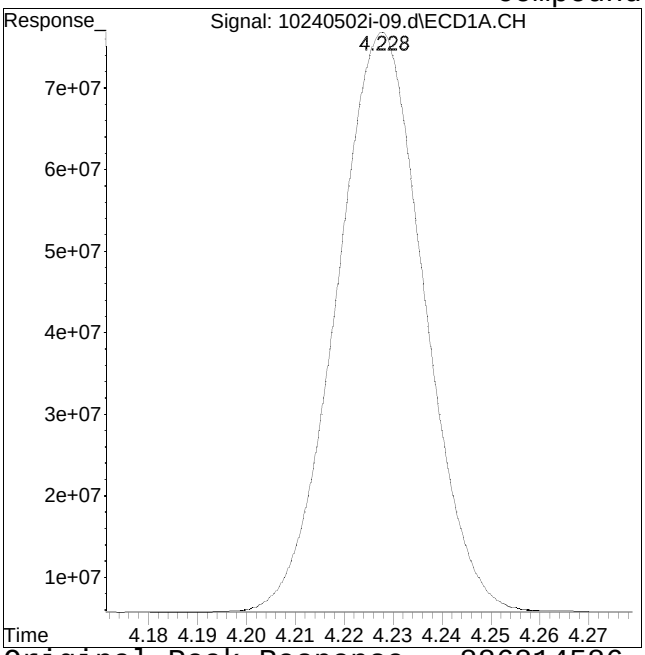
Manual Peak Response = 279891292 M4

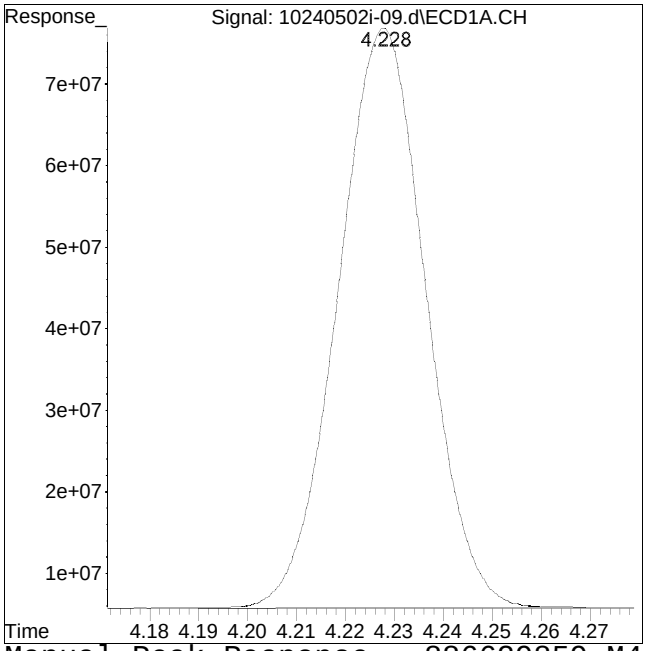
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-09.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 5:14 pm Instrument : Pest 10
Sample : il8pest,42e,,pp 11400 L0.0Quant Date : 5/7/2024 5:40 pm

Compound #18: Endrin



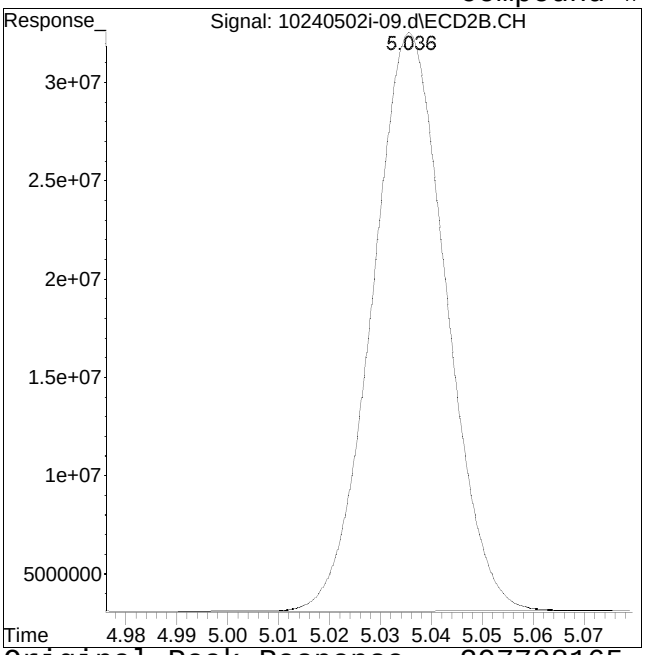


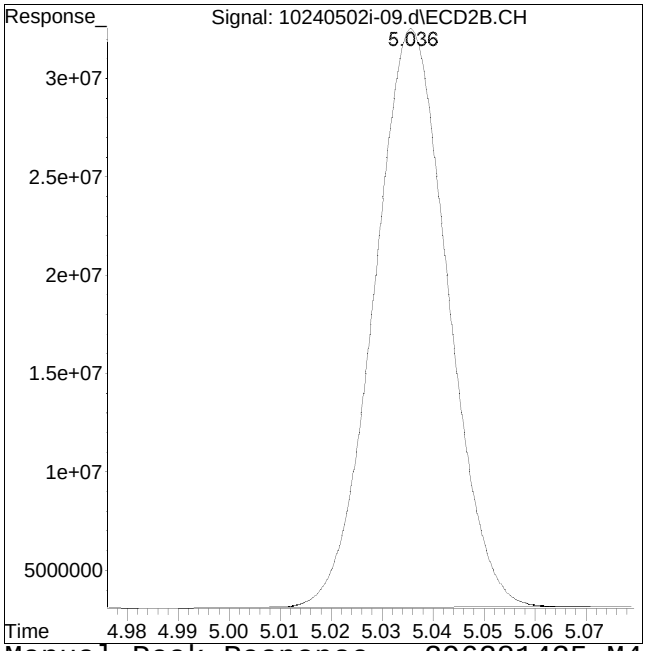
Original Peak Response = 886814586 Manual Peak Response = 886629859 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-09.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 5:14 pm Instrument : Pest 10
Sample : il8pest,42e,,pp 11400 L0.0Quant Date : 5/7/2024 5:40 pm

Compound #56: Endrin #2



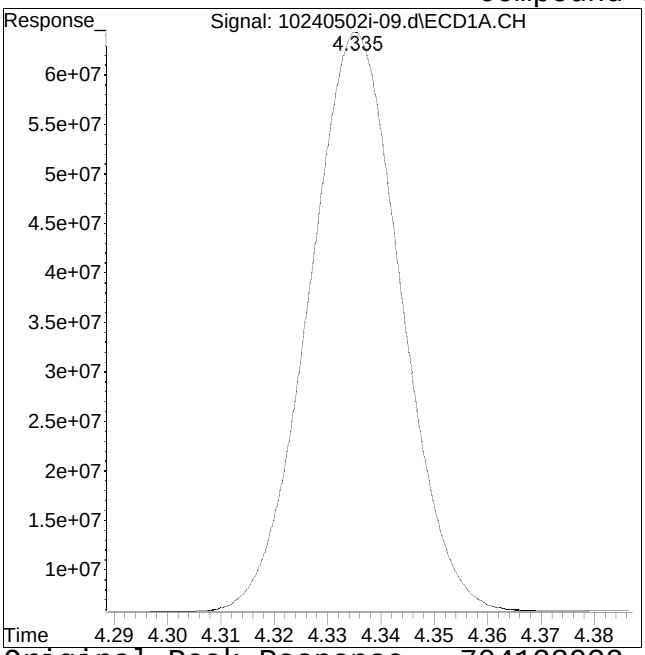


Original Peak Response = 297788165 Manual Peak Response = 296281435 M4
M4 = Poor automated baseline construction.

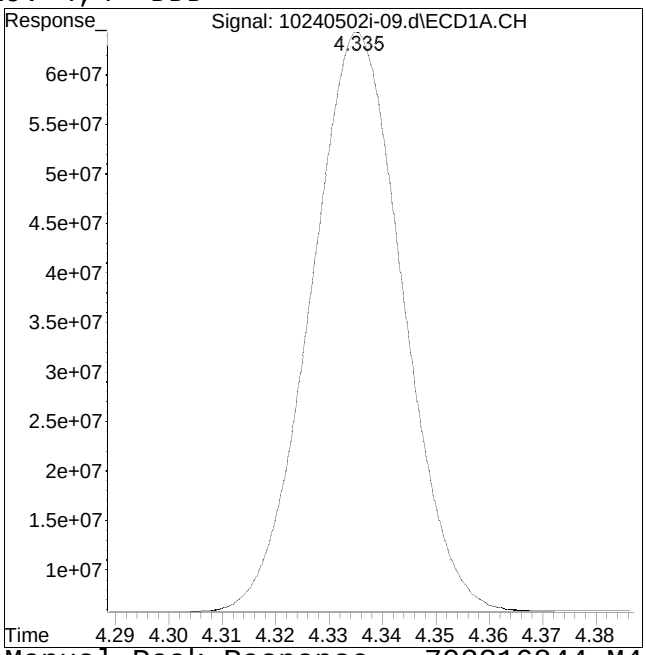
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-09.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 5:14 pm Instrument : Pest 10
Sample : il8pest,42e,,pp 11400 L0.0Quant Date : 5/7/2024 5:40 pm

Compound #19: 4,4'-DDD



Original Peak Response = 704123932



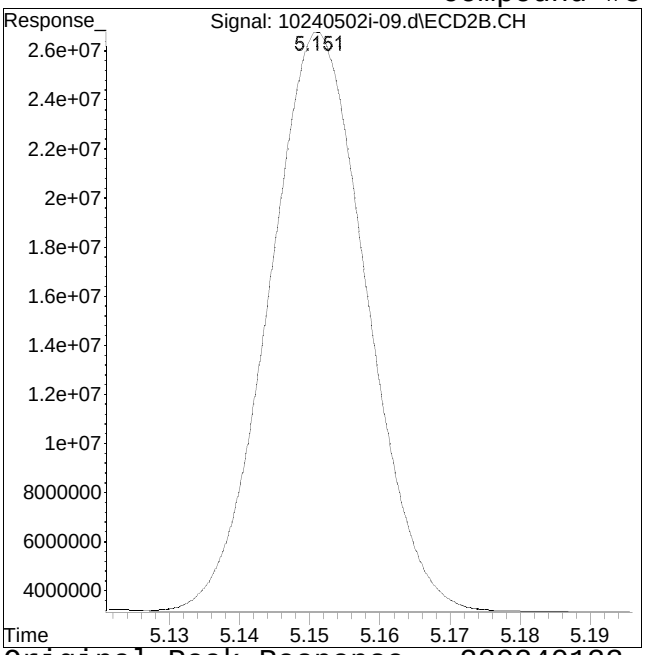
Manual Peak Response = 702316844 M4

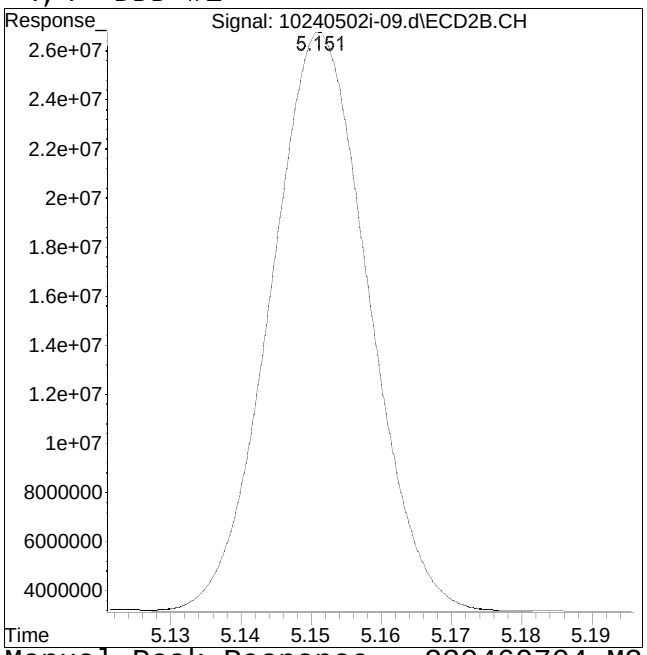
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-09.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 5:14 pm Instrument : Pest 10
Sample : il8pest,42e,,pp 11400 L0.0Quant Date : 5/7/2024 5:40 pm

Compound #57: 4,4'-DDD #2



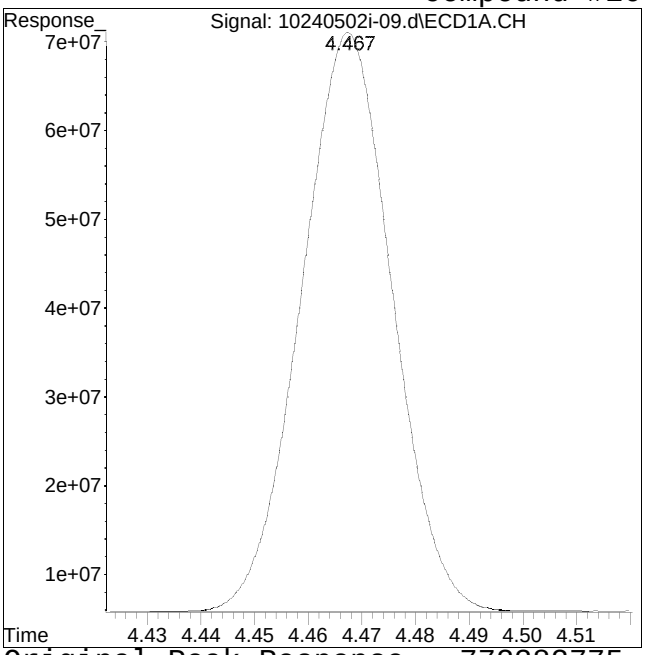


Original Peak Response = 229240133 Manual Peak Response = 229460704 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

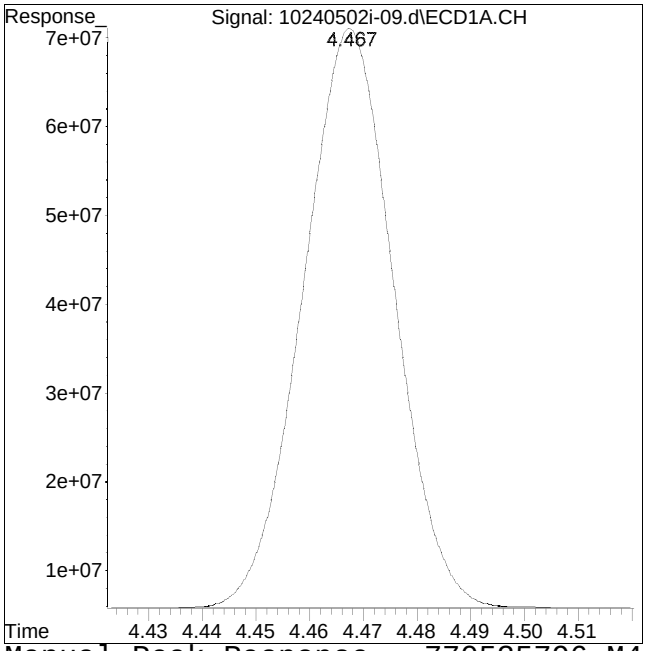
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-09.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 5:14 pm Instrument : Pest 10
Sample : il8pest,42e,,pp 11400 L0.0Quant Date : 5/7/2024 5:40 pm

Compound #20: Endosulfan II



Original Peak Response = 772382775



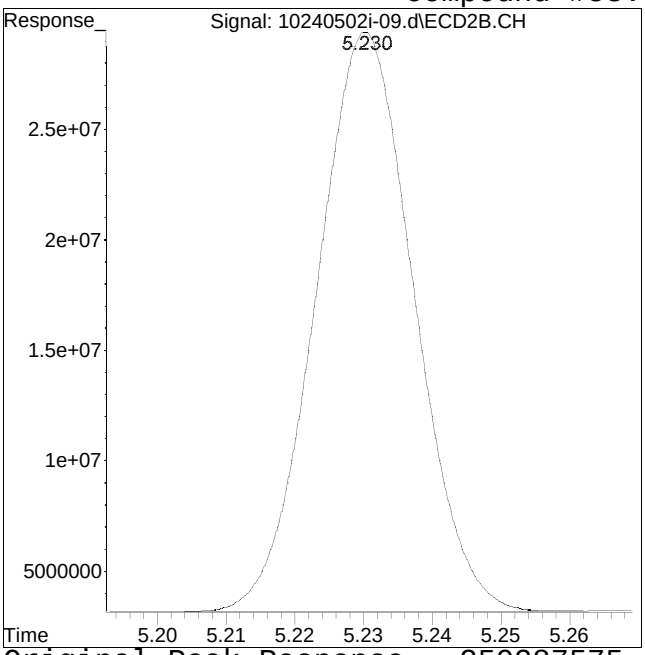
Manual Peak Response = 770535796 M4

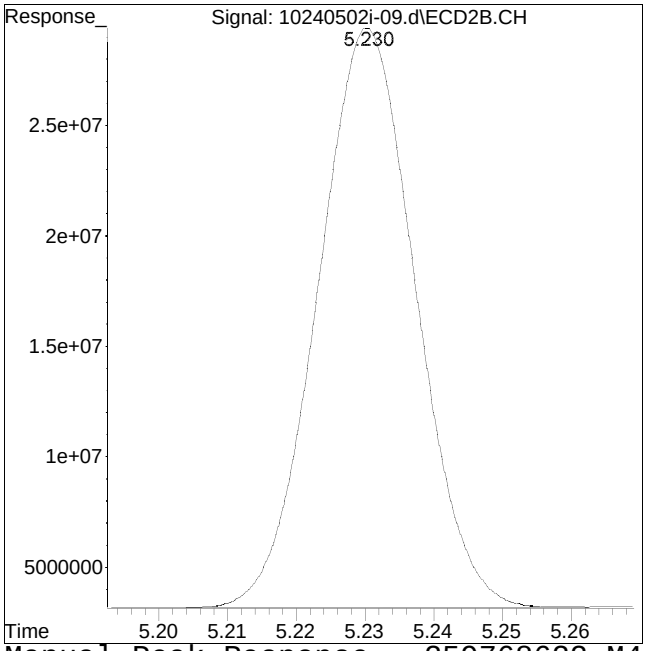
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-09.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 5:14 pm Instrument : Pest 10
Sample : il8pest,42e,,pp 11400 L0.0Quant Date : 5/7/2024 5:40 pm

Compound #58: Endosulfan II #2



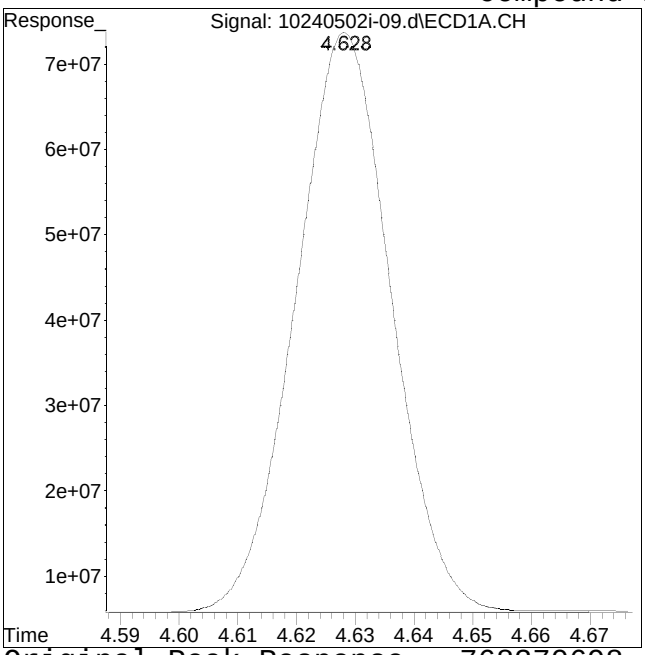


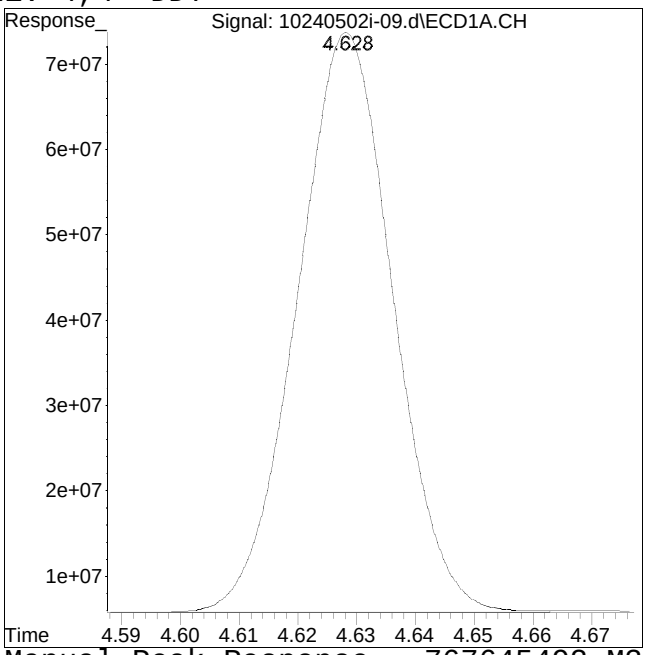
Original Peak Response = 259287575 Manual Peak Response = 259768622 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-09.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 5:14 pm Instrument : Pest 10
Sample : il8pest,42e,,pp 11400 L0.0Quant Date : 5/7/2024 5:40 pm

Compound #21: 4,4'-DDT





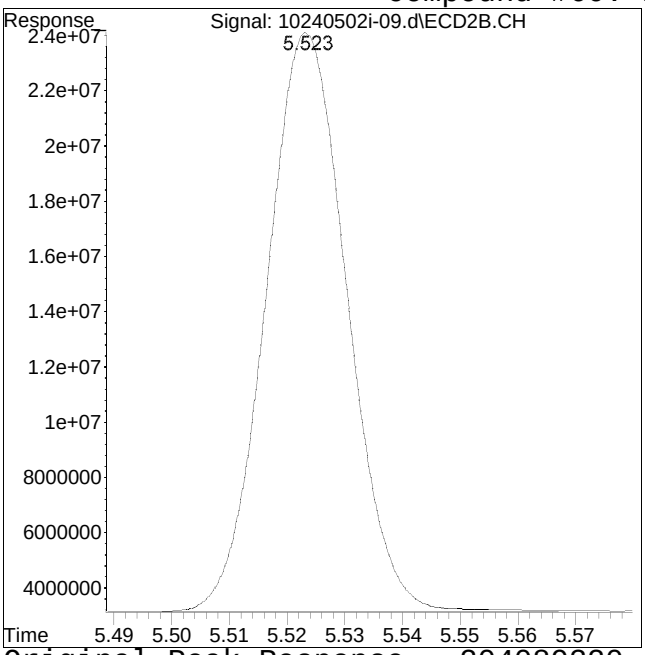
Original Peak Response = 768370698 Manual Peak Response = 767645492 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

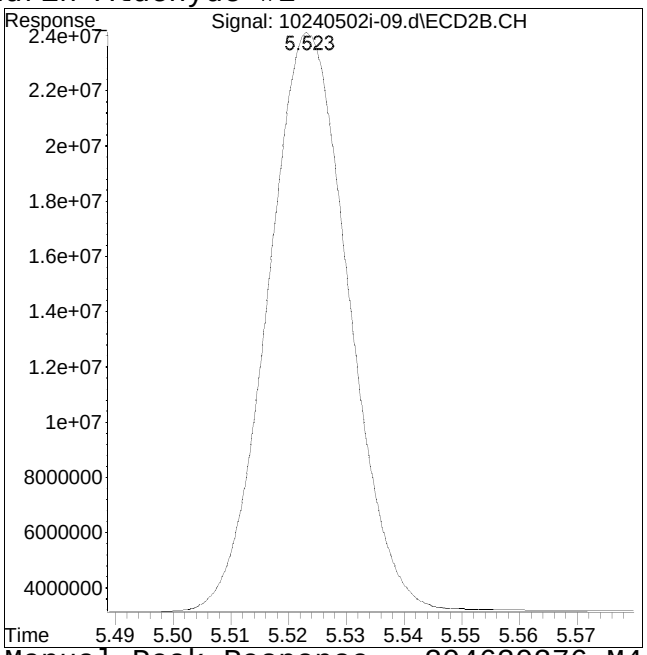
Data Path : I:\PEST\Pest10\2024\240502Q
Data File : 10240502i-09.d
Date Inj'd : 5/2/2024 5:14 pm
Sample : il8pest,42e,,pp 11400 L0.0

Method : pest10_2024_05_02_ugL_ic
Operator : PEST10:jag
Instrument : Pest 10
Quant Date : 5/7/2024 5:40 pm

Compound #60: Endrin Aldehyde #2



Original Peak Response = 204089320



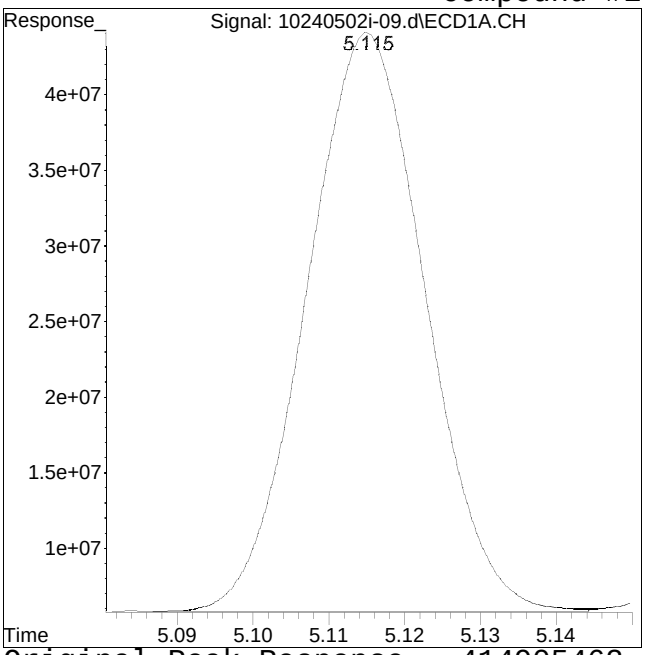
Manual Peak Response = 204630376 M4

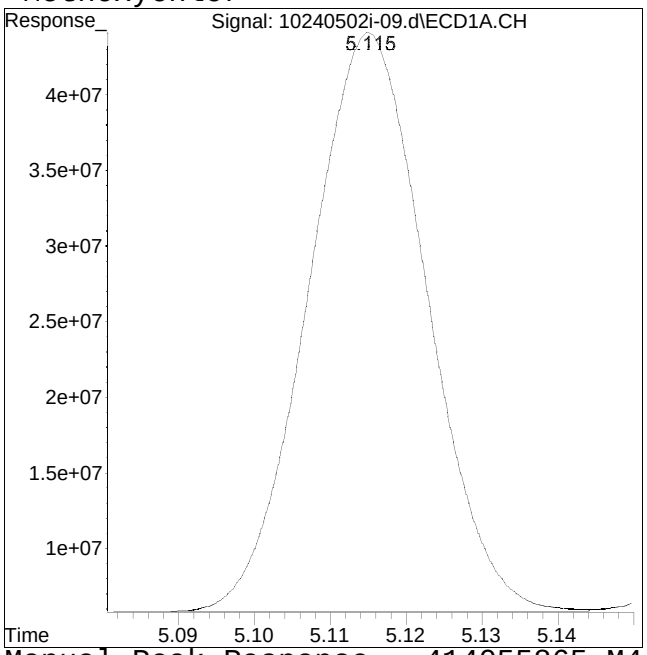
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-09.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 5:14 pm Instrument : Pest 10
Sample : il8pest,42e,,pp 11400 L0.0Quant Date : 5/7/2024 5:40 pm

Compound #23: Methoxychlor



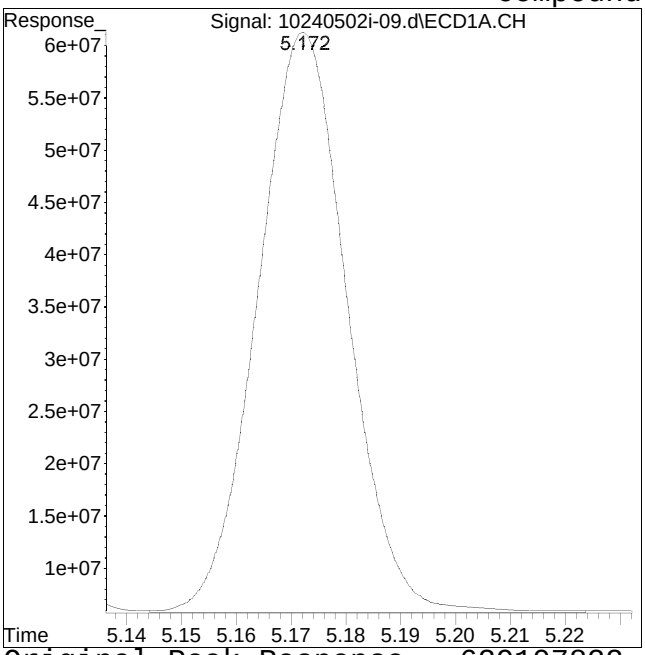


Original Peak Response = 414905462 Manual Peak Response = 414055865 M4
M4 = Poor automated baseline construction.

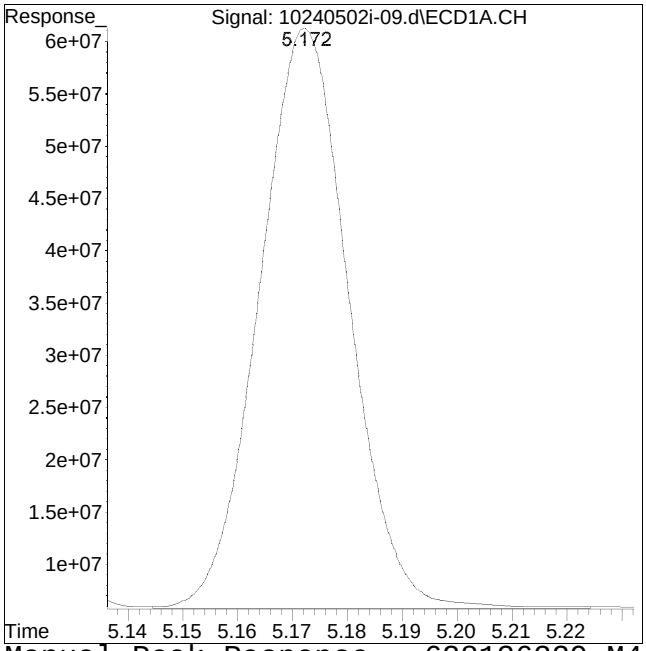
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-09.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 5:14 pm Instrument : Pest 10
Sample : il8pest,42e,,pp 11400 L0.0Quant Date : 5/7/2024 5:40 pm

Compound #24: Mirex



Original Peak Response = 629107822



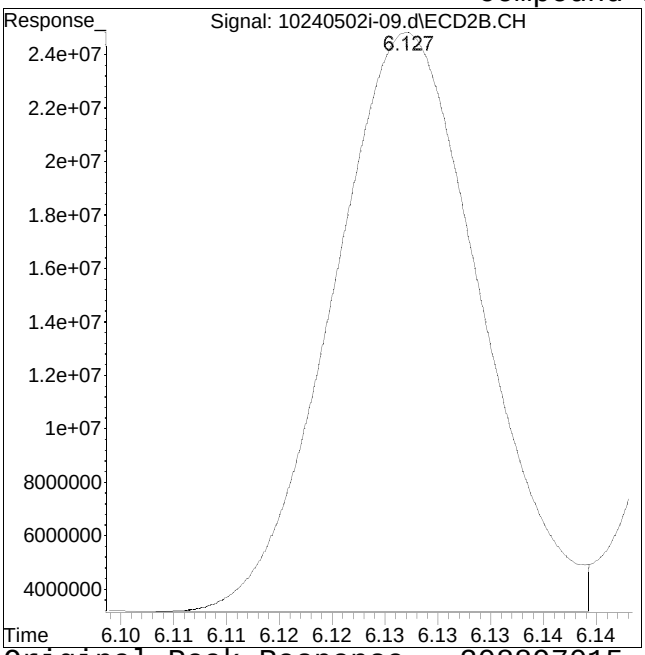
Manual Peak Response = 628136229 M4

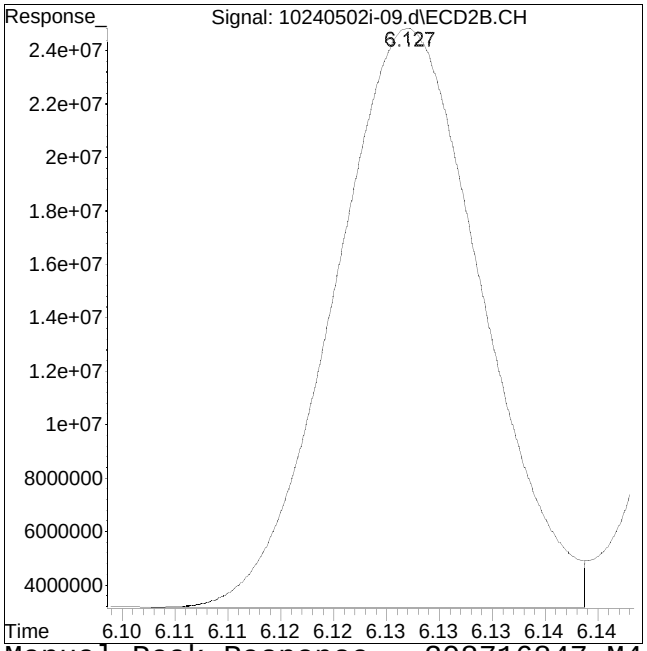
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-09.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 5:14 pm Instrument : Pest 10
Sample : il8pest,42e,,pp 11400 L0.0Quant Date : 5/7/2024 5:40 pm

Compound #62: Mirex #2



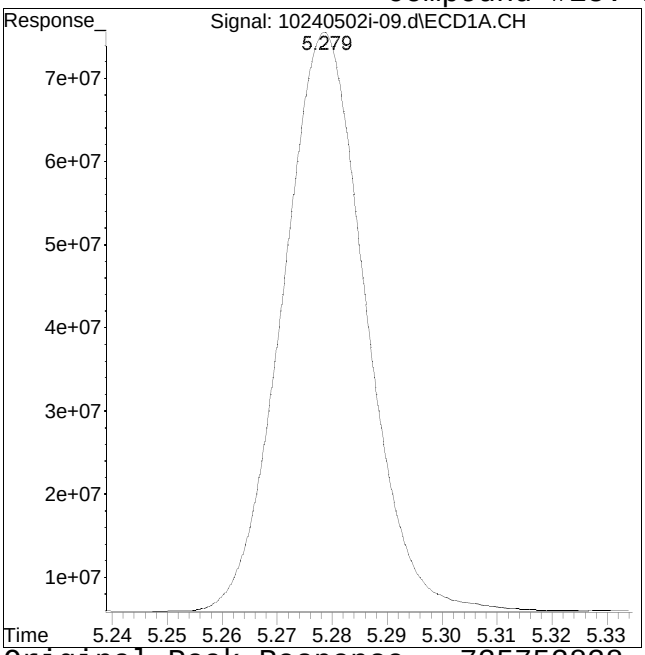


Original Peak Response = 208897015 Manual Peak Response = 208716847 M4
M4 = Poor automated baseline construction.

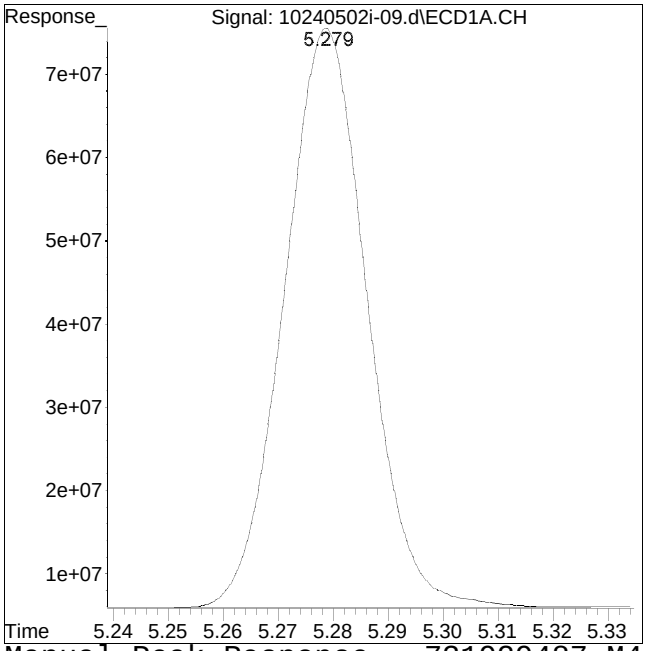
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-09.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 5:14 pm Instrument : Pest 10
Sample : il8pest,42e,,pp 11400 L0.0Quant Date : 5/7/2024 5:40 pm

Compound #25: Endosulfan Sulfate



Original Peak Response = 735752838



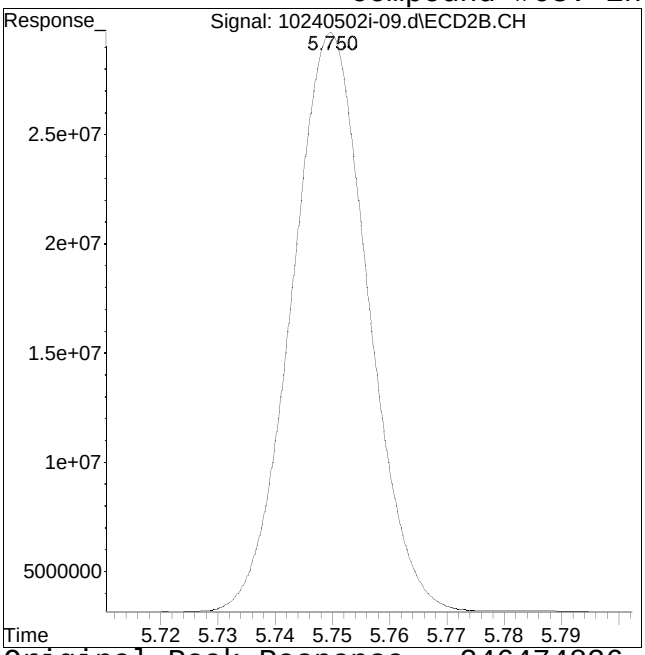
Manual Peak Response = 731929487 M4

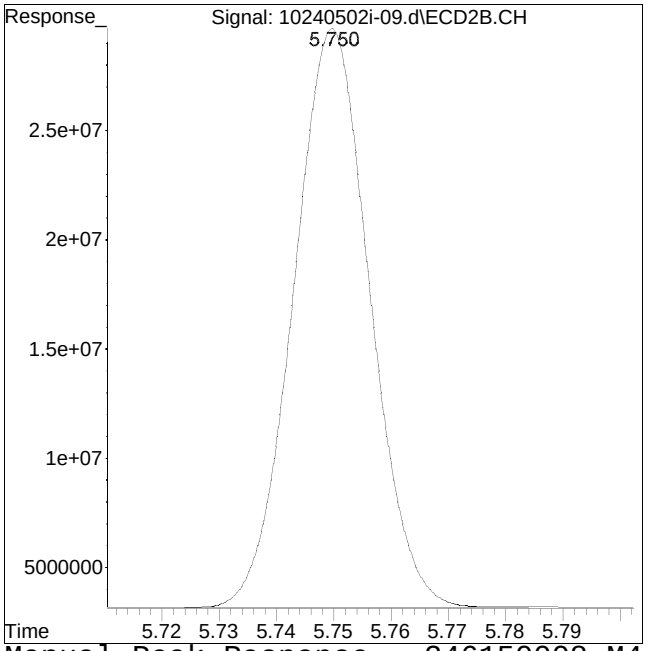
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-09.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 5:14 pm Instrument : Pest 10
Sample : il8pest,42e,,pp 11400 L0.0Quant Date : 5/7/2024 5:40 pm

Compound #63: Endosulfan Sulfate #2



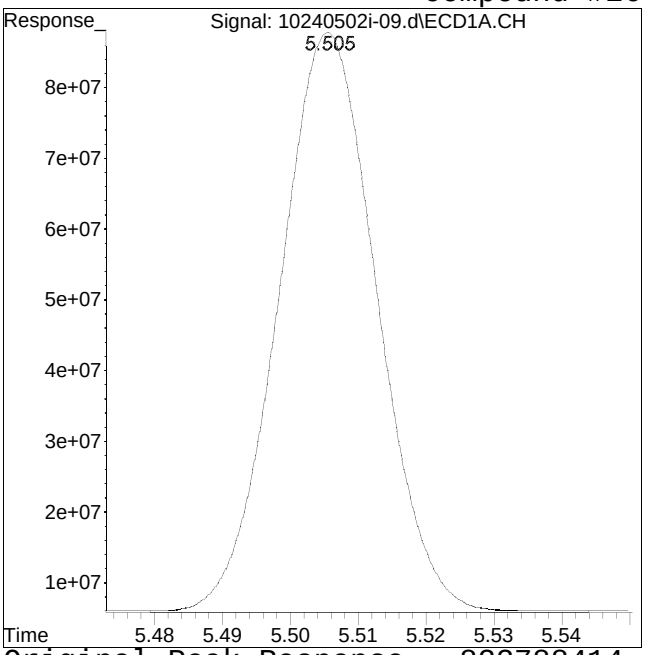


Original Peak Response = 246474836 Manual Peak Response = 246150008 M4
M4 = Poor automated baseline construction.

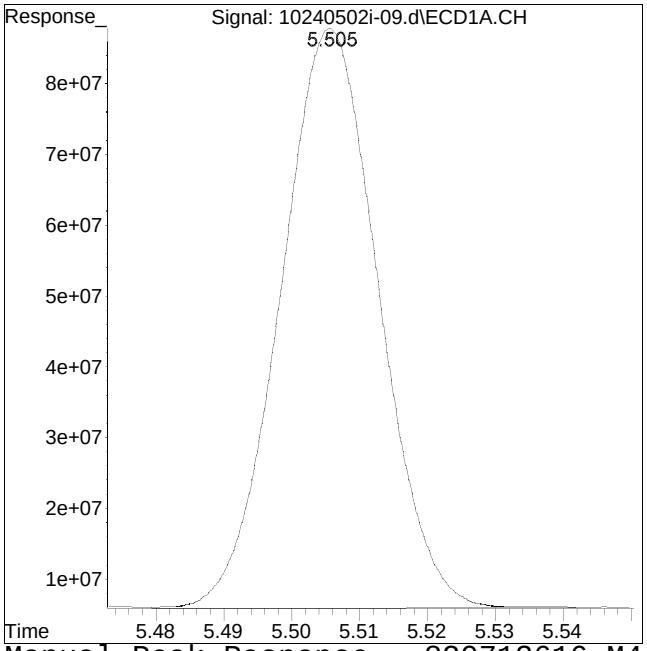
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-09.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 5:14 pm Instrument : Pest 10
Sample : il8pest,42e,,pp 11400 L0.0Quant Date : 5/7/2024 5:40 pm

Compound #26: Endrin Ketone



Original Peak Response = 823788414



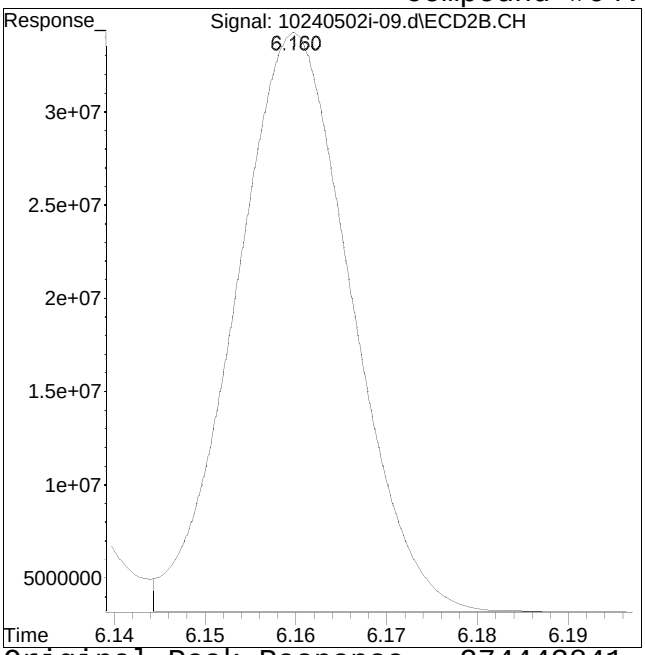
Manual Peak Response = 820713616 M4

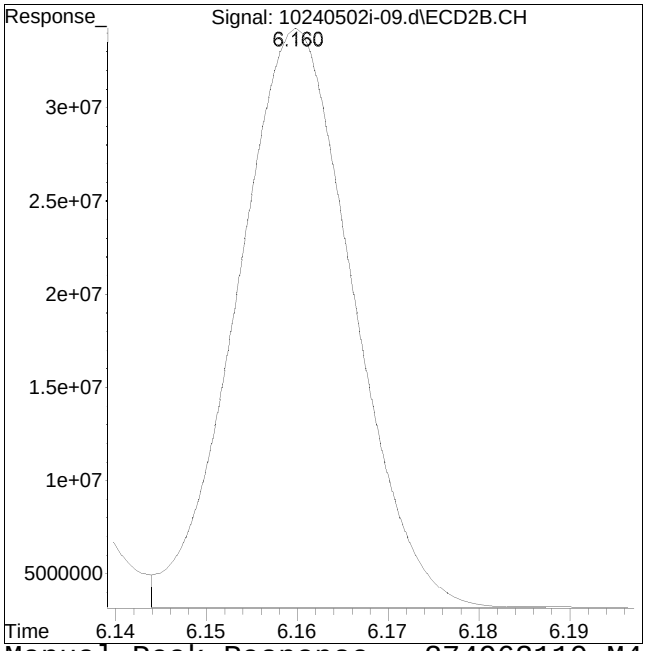
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-09.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 5:14 pm Instrument : Pest 10
Sample : il8pest,42e,,pp 11400 L0.0Quant Date : 5/7/2024 5:40 pm

Compound #64: Endrin Ketone #2



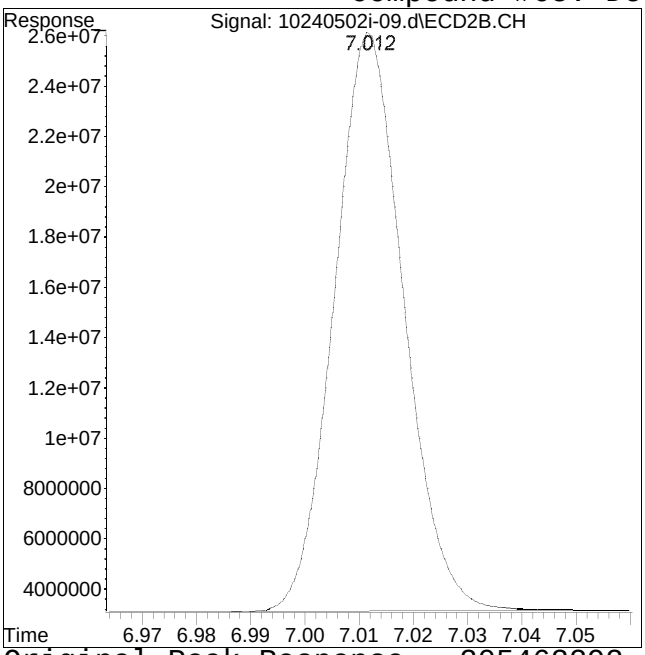


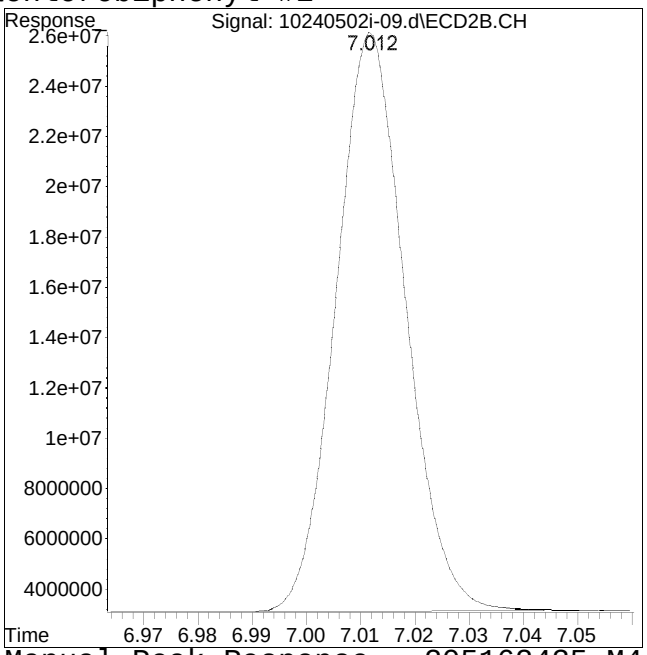
Original Peak Response = 274443841 Manual Peak Response = 274963110 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-09.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 5:14 pm Instrument : Pest 10
Sample : il8pest,42e,,pp 11400 L0.0Quant Date : 5/7/2024 5:40 pm

Compound #65: Decachlorobiphenyl #2





Original Peak Response = 205462292 Manual Peak Response = 205162435 M4
M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest10\2024\240502ical\
Data File : 10240502i-10.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 May 2024 5:25 pm
Operator : PEST10:jag
Sample : il9pest,42e,,pp 11399 L0.1
Misc : wg1919460, (Sig #1); ical (Sig #2)
ALS Vial : 10 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 07 15:17:05 2024
Quant Method : I:\PEST\Pest10\2024\240502ical\pest10_2024_05_02_ugL_ical.m
Quant Title : pest
QLast Update : Tue May 07 15:16:41 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	1.317	1.428	381.7E6	136.0E6	25.000M3	25.000M4
28) i	1-br-2-nb_Ch	0.000	0.000	0	0	N.D. d	N.D. d
33) i	1-br-2-nb_To	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	1.663	1.920	1516.6E6	514.7E6	100.353	102.476
	Spiked Amount 50.000	Range 30 - 150		Recovery =		200.71%#	204.95%#
27) s	Decachlorobi	6.305	7.012	1227.5E6	399.2E6	97.034M3	97.735
	Spiked Amount 50.000	Range 30 - 150		Recovery =		194.07%#	195.47%#
	Target Compounds						
3) t	Hexachlorobe	1.876	2.251	1601.5E6	562.4E6	99.703M3	102.105M3
4) t	alpha-BHC	1.976	2.350	2339.1E6	795.0E6	102.677M4	105.381M4
5) t	gamma-BHC (l	2.179	2.644	2119.8E6	719.3E6	101.983M3	104.096M4
6) t	beta-BHC	2.235	2.709	849.8E6	300.4E6	97.856M4	100.579M4
7) t	delta-BHC	2.364	2.983	2158.6E6	733.5E6	102.639M4	104.692M3
8) t	Heptachlor	2.526	3.053	1968.2E6	683.3E6	99.678M4	102.259M4
9) t	Aldrin	2.769	3.381	1888.7E6	641.6E6	100.535M4	103.856
10) t	Alachlor	2.892	3.257	250.3E6	91322149	91.003M4	94.557M4
11) t	Chlorpyrifos	2.982	3.620	784.7E6	298.5E6	92.447M4	96.362M4
12) t	Heptachlor E	3.317	4.010	1719.8E6	600.6E6	98.725	101.202M4

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest10\2024\240502ical\
Data File : 10240502i-10.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 May 2024 5:25 pm
Operator : PEST10:jag
Sample : il9pest,42e,,pp 11399 L0.1
Misc : wg1919460, (Sig #1); ical (Sig #2)
ALS Vial : 10 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 07 15:17:05 2024
Quant Method : I:\PEST\Pest10\2024\240502ical\pest10_2024_05_02_ugL_ical.m
Quant Title : pest
QLast Update : Tue May 07 15:16:41 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

		Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
13)	t	gamma-Chlord	3.439	4.232	1568.9E6	539.6E6	100.045M4	102.708M4
14)	t	alpha-Chlord	3.574	4.398	1764.7E6	604.3E6	99.859M3	102.041
15)	t	4,4'-DDE	3.671	4.587	1782.4E6	601.1E6	100.691	104.125M3
16)	t	Endosulfan I	3.712	4.458	1634.9E6	565.0E6	98.415	101.404M4
17)	t	Dieldrin	3.972	4.743	1739.1E6	588.5E6	99.828M3	103.265M4
18)	t	Endrin	4.228	5.035	1782.4E6	604.7E6	99.469M4	102.518
19)	t	4,4'-DDD	4.335	5.151	1422.3E6	477.3E6	100.208M4	104.584M4
20)	t	Endosulfan I	4.467	5.229	1523.0E6	520.8E6	97.796M4	100.712M4
21)	t	4,4'-DDT	4.628	5.425	1580.0E6	532.2E6	101.841M3	103.103M3
22)	t	Endrin Aldeh	4.885	5.522	1252.8E6	431.2E6	102.921M4	105.843M4
23)	t	Methoxychlor	5.115	5.983	793.4E6	269.5E6	94.811M4	98.657M3
24)	t	Mirex	5.172	6.127	1223.5E6	405.4E6	96.375M3	97.575M4
25)	t	Endosulfan S	5.278	5.749	1447.8E6	492.9E6	97.872M4	100.593
26)	t	Endrin Keton	5.505	6.159	1627.3E6	550.8E6	98.106M4	100.619M4
29)	l1	chlordane-1	0.000	0.000	0	0	N.D. d	N.D. d
30)	l1	chlordane-3	0.000	0.000	0	0	N.D. d	N.D. d
31)	l1	chlordane-4	0.000	0.000	0	0	N.D. d	N.D. d
32)	l1	chlordane-5	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest10\2024\240502ical\
Data File : 10240502i-10.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 May 2024 5:25 pm
Operator : PEST10:jag
Sample : il9pest,42e,,pp 11399 L0.1
Misc : wg1919460, (Sig #1); ical (Sig #2)
ALS Vial : 10 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 07 15:17:05 2024
Quant Method : I:\PEST\Pest10\2024\240502ical\pest10_2024_05_02_ugL_ical.m
Quant Title : pest
QLast Update : Tue May 07 15:16:41 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Sum chlordane-1			0	0	N.D.	N.D.
Average	chlordane-1					0.000	0.000
34) l2	toxaphene-1	0.000	0.000	0	0	N.D. d	N.D. d
35) l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
36) l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
37) l2	toxaphene-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

	Sum toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

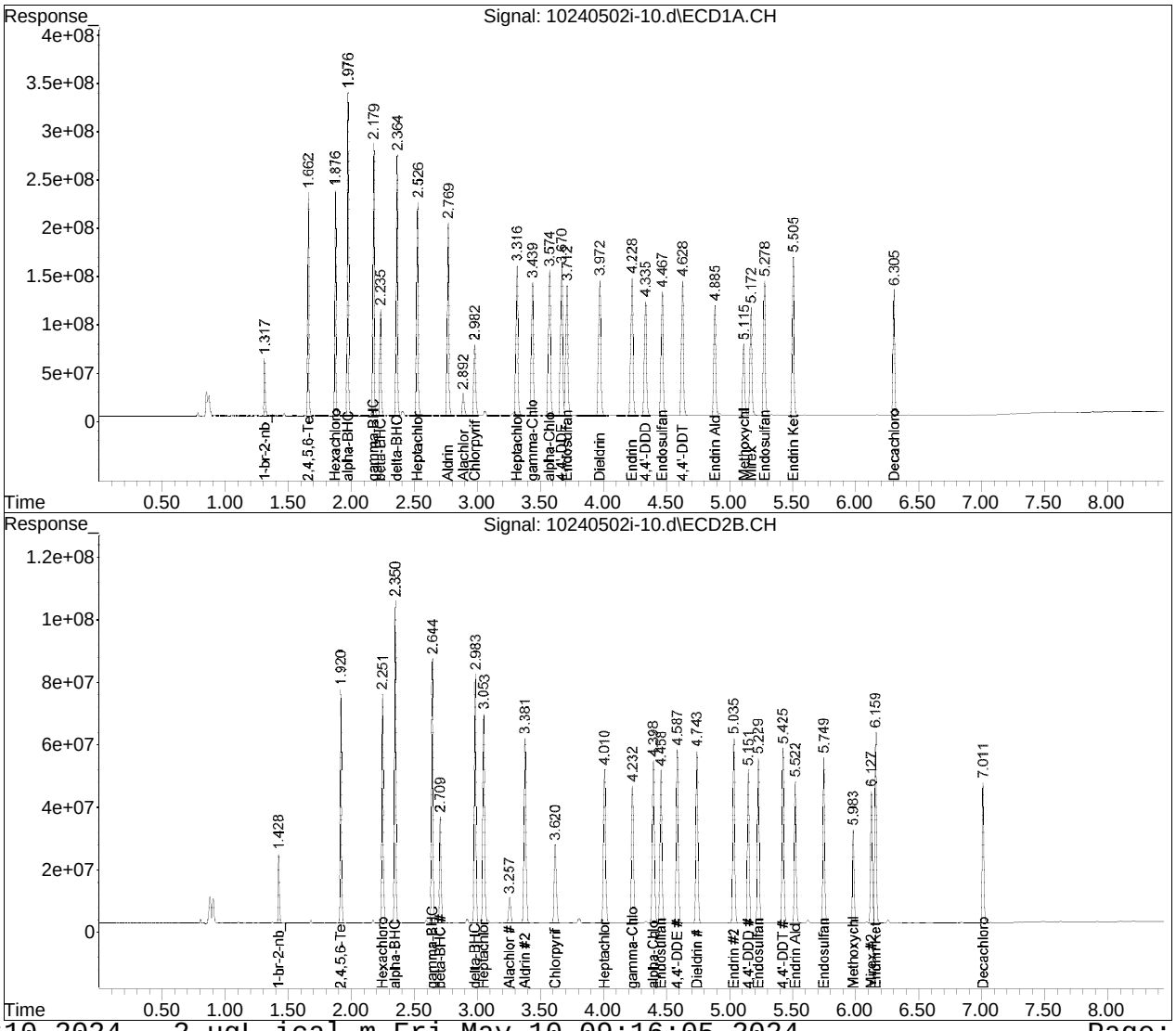
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest10\2024\240502ical\
Data File : 10240502i-10.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 May 2024 5:25 pm
Operator : PEST10:jag
Sample : il9pest,42e,,pp 11399 L0.1
Misc : wg1919460, (Sig #1); ical (Sig #2)
ALS Vial : 10 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 07 15:17:05 2024
Quant Method : I:\PEST\Pest10\2024\240502ical\pest10_2024_05_02_ugL_ical.m
Quant Title : pest
QLast Update : Tue May 07 15:16:41 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

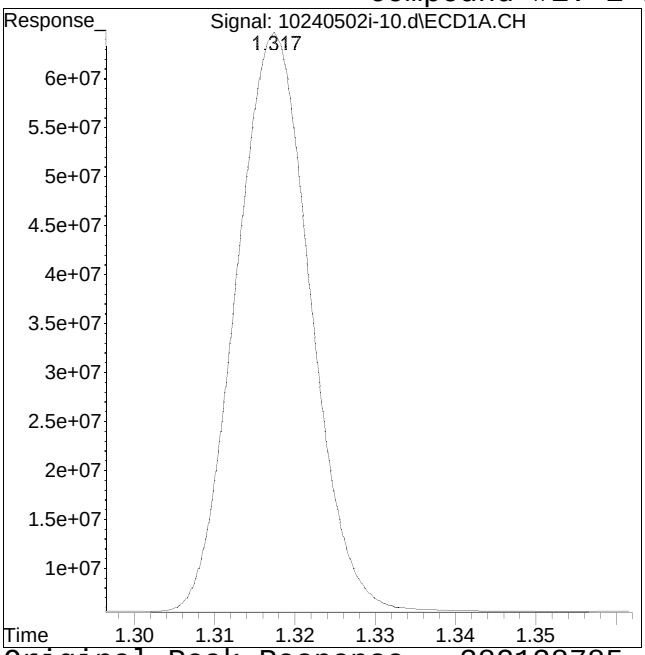


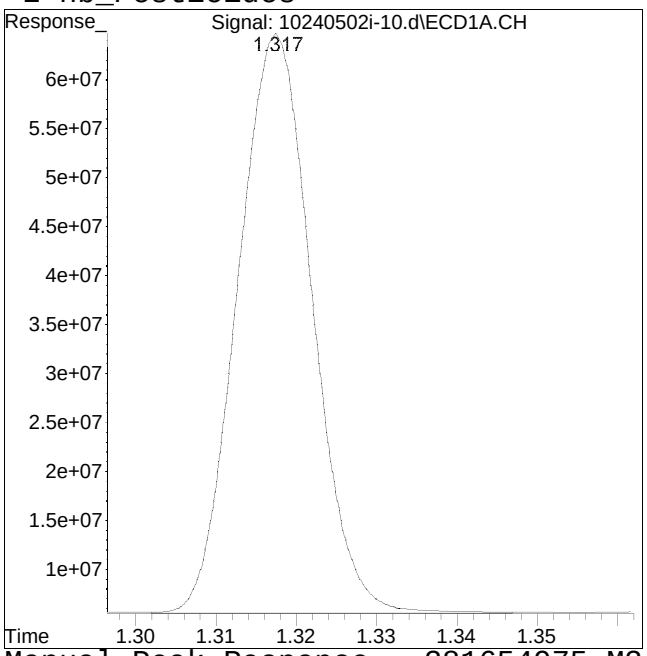
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502Q
Data File : 10240502i-10.d
Date Inj'd : 5/2/2024 5:25 pm
Sample : il9pest,42e,,pp 11399 L0.1

Method : pest10_2024_05_02_ugL_ic
Operator : PEST10:jag
Instrument : Pest 10
Quant Date : 5/7/2024 3:17 pm

Compound #1: 1-br-2-nb_Pesticides





Original Peak Response = 382138785 Manual Peak Response = 381654975 M3

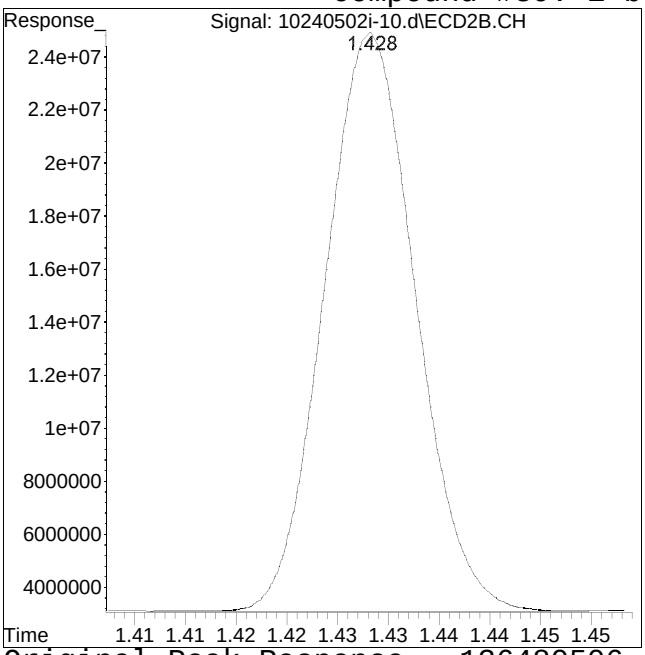
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

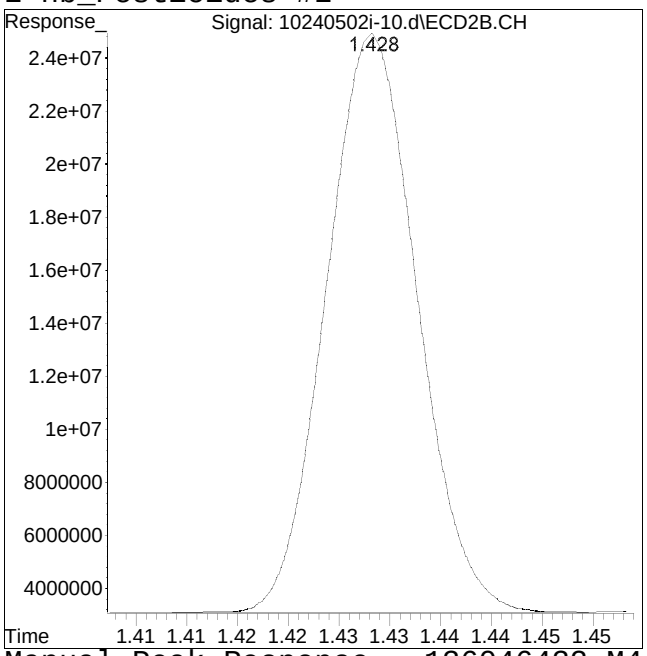
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502Q
Data File : 10240502i-10.d
Date Inj'd : 5/2/2024 5:25 pm
Sample : il9pest,42e,,pp 11399 L0.1

Method : pest10_2024_05_02_ugL_ic
Operator : PEST10:jag
Instrument : Pest 10
Quant Date : 5/7/2024 3:17 pm

Compound #39: 1-br-2-nb_Pesticides #2



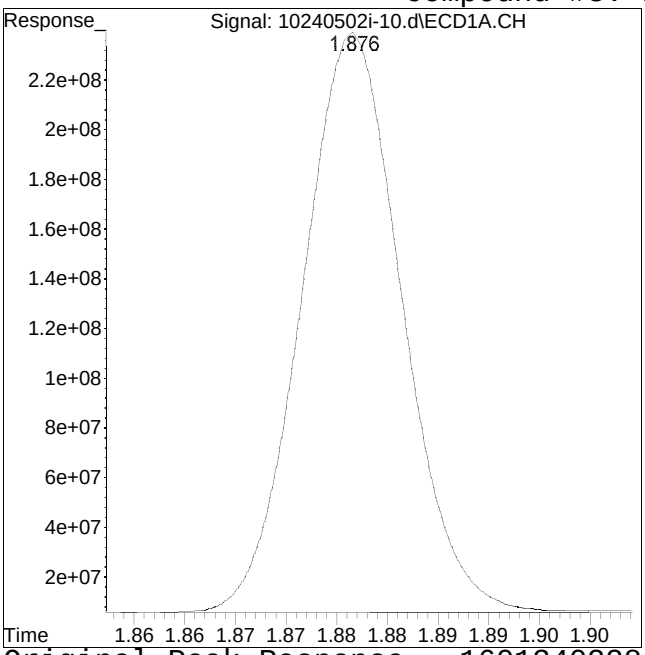


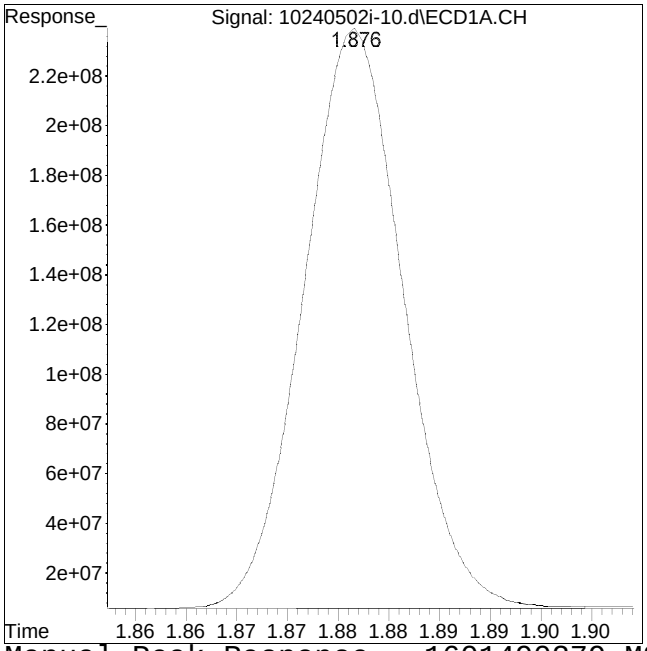
Original Peak Response = 136480506 Manual Peak Response = 136046432 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-10.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 5:25 pm Instrument : Pest 10
Sample : il9pest,42e,,pp 11399 L0.1Quant Date : 5/7/2024 3:17 pm

Compound #3: Hexachlorobenzene



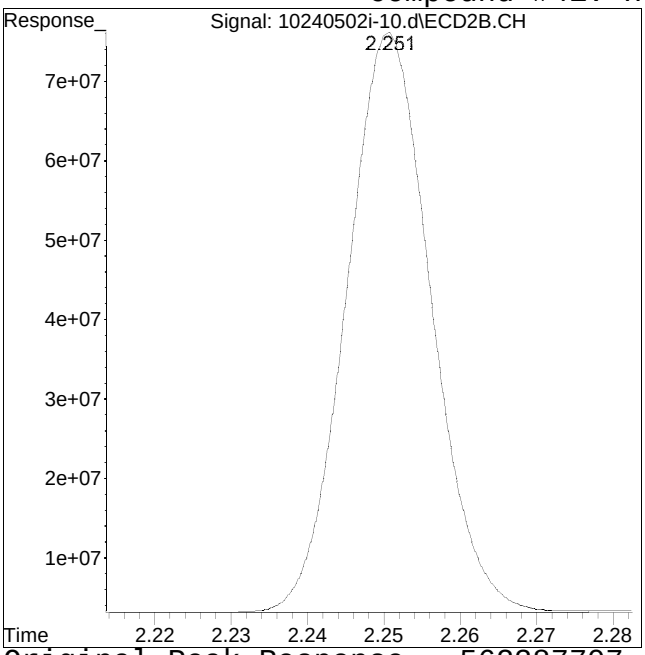


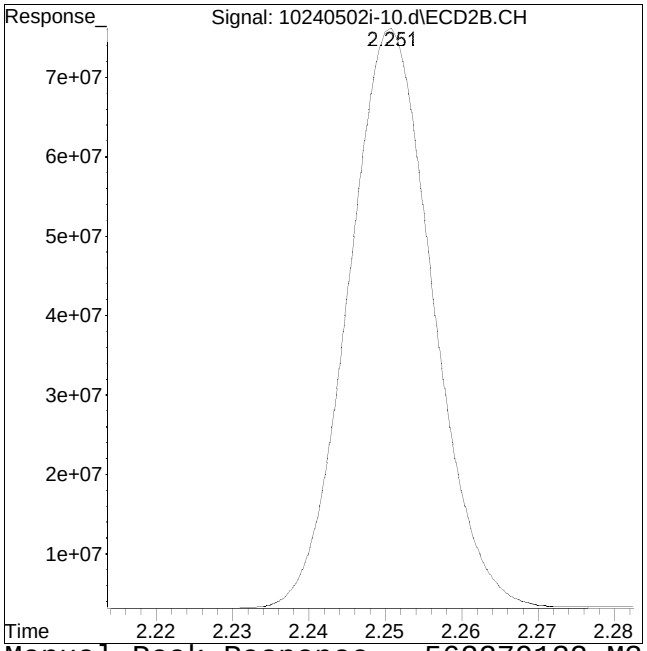
Original Peak Response = 1601340228 Manual Peak Response = 1601490279 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-10.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 5:25 pm Instrument : Pest 10
Sample : il9pest,42e,,pp 11399 L0.1Quant Date : 5/7/2024 3:17 pm

Compound #41: Hexachlorobenzene #2



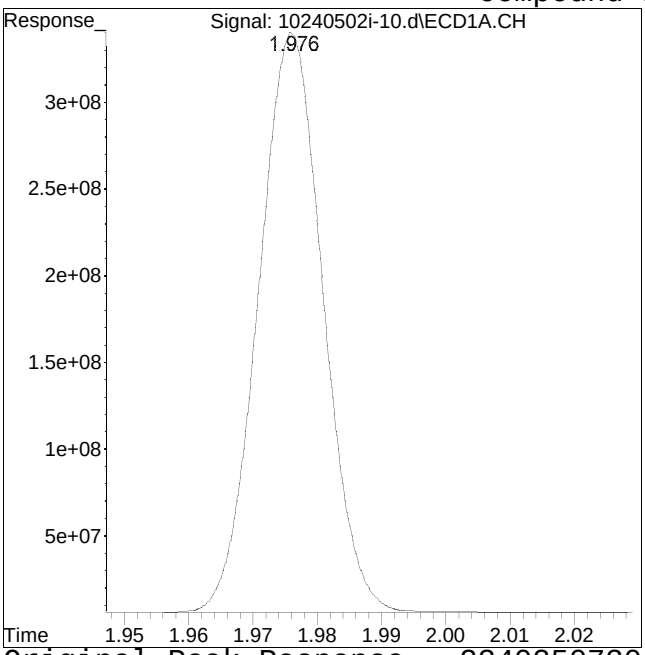


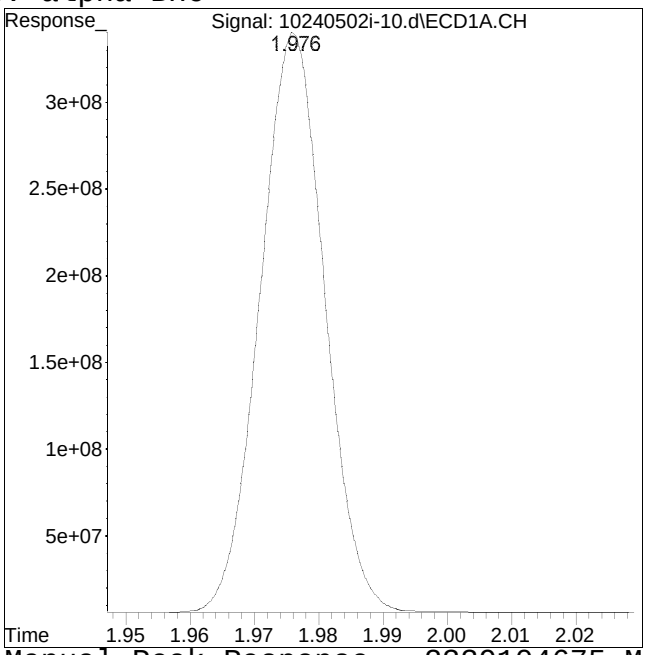
Original Peak Response = 562387707 Manual Peak Response = 562379132 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-10.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 5:25 pm Instrument : Pest 10
Sample : il9pest,42e,,pp 11399 L0.1Quant Date : 5/7/2024 3:17 pm

Compound #4: alpha-BHC





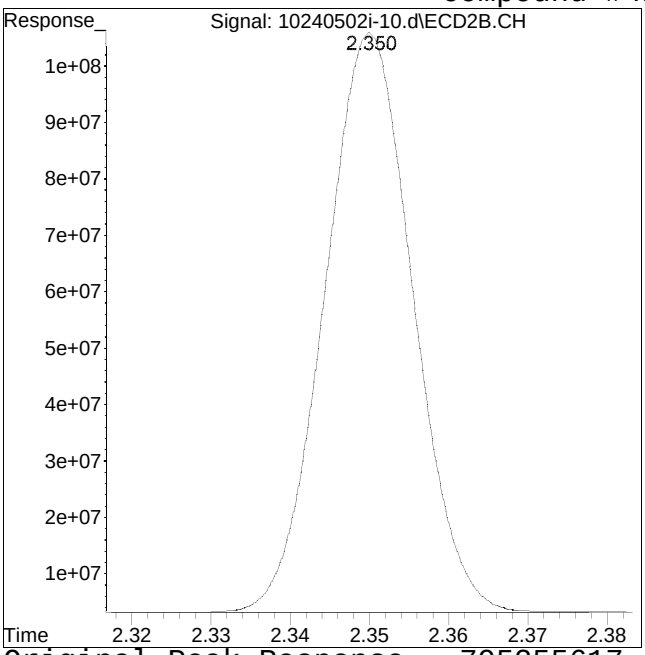
Original Peak Response = 2340250730 Manual Peak Response = 2339104675 M4
M4 = Poor automated baseline construction.

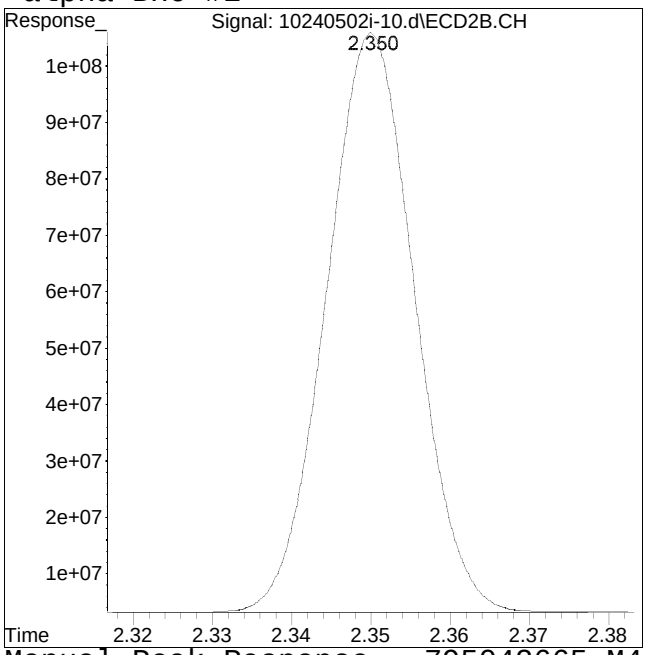
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502Q
Data File : 10240502i-10.d
Date Inj'd : 5/2/2024 5:25 pm
Sample : il9pest,42e,,pp 11399 L0.1

Method : pest10_2024_05_02_ugL_ic
Operator : PEST10:jag
Instrument : Pest 10
Quant Date : 5/7/2024 3:17 pm

Compound #42: alpha-BHC #2



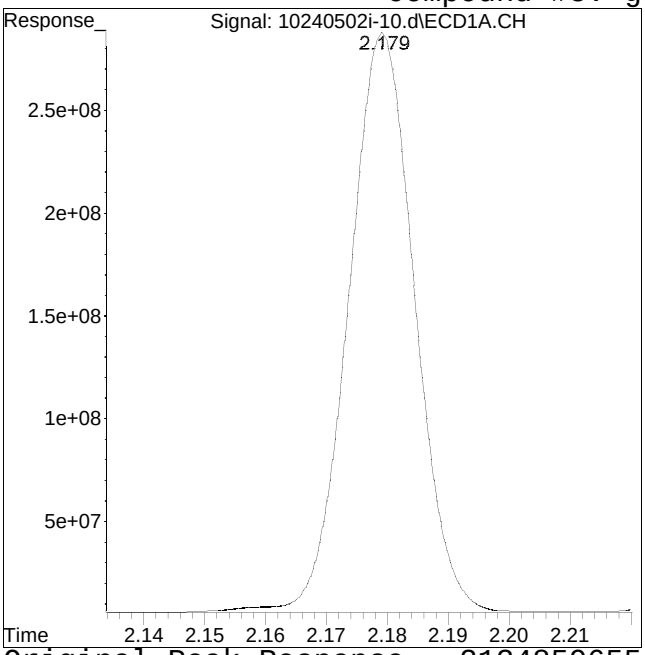


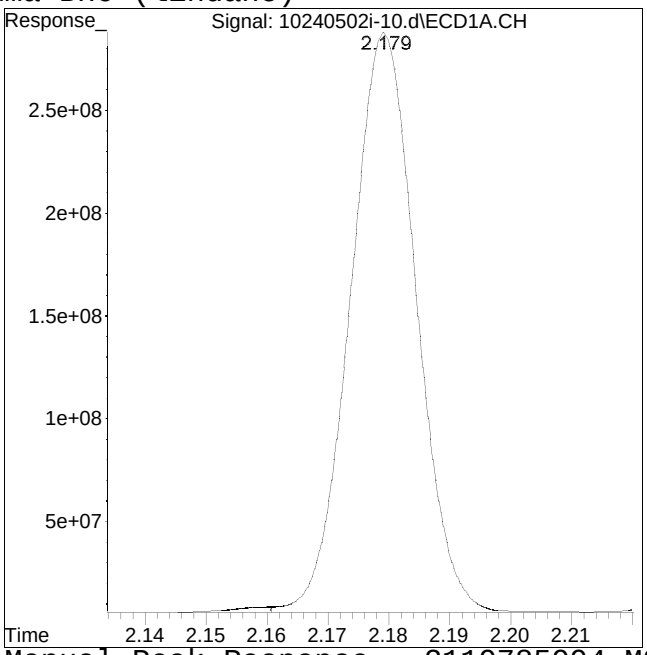
Original Peak Response = 795255617 Manual Peak Response = 795042665 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-10.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 5:25 pm Instrument : Pest 10
Sample : il9pest,42e,,pp 11399 L0.1Quant Date : 5/7/2024 3:17 pm

Compound #5: gamma-BHC (lindane)



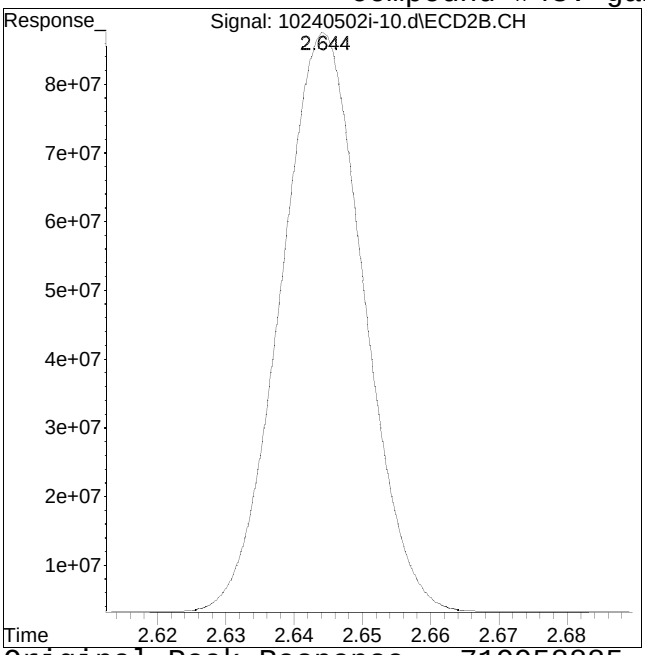


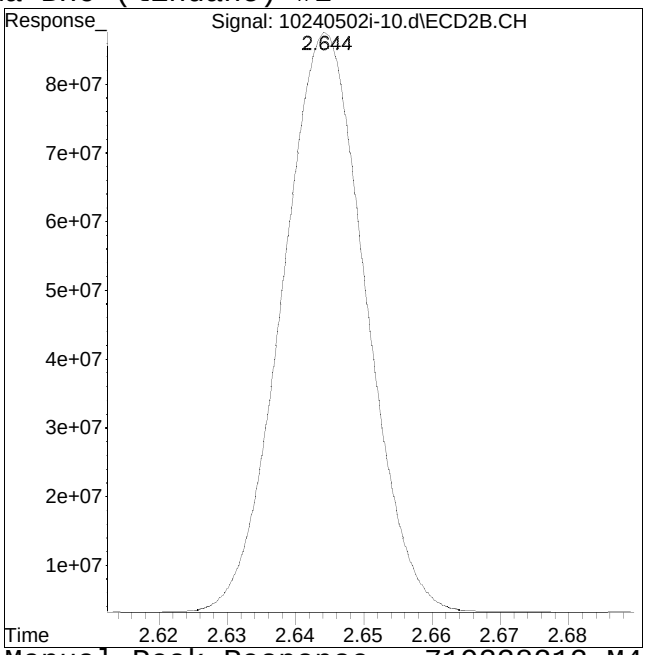
Original Peak Response = 2134859655 Manual Peak Response = 2119785994 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-10.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 5:25 pm Instrument : Pest 10
Sample : il9pest,42e,,pp 11399 L0.1Quant Date : 5/7/2024 3:17 pm

Compound #43: gamma-BHC (lindane) #2



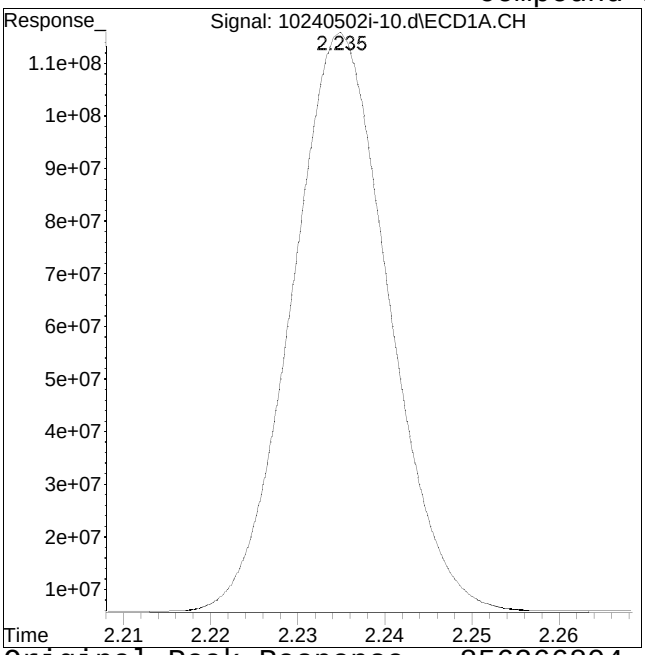


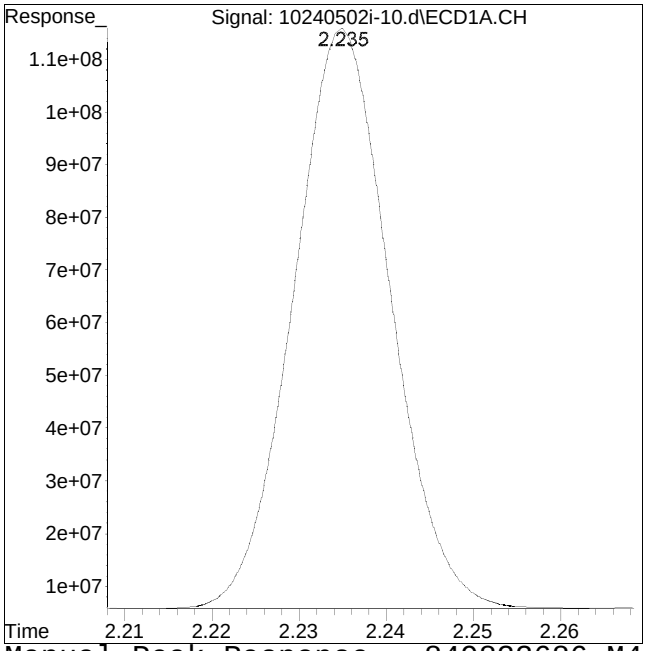
Original Peak Response = 719958885 Manual Peak Response = 719338212 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-10.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 5:25 pm Instrument : Pest 10
Sample : il9pest,42e,,pp 11399 L0.1Quant Date : 5/7/2024 3:17 pm

Compound #6: beta-BHC



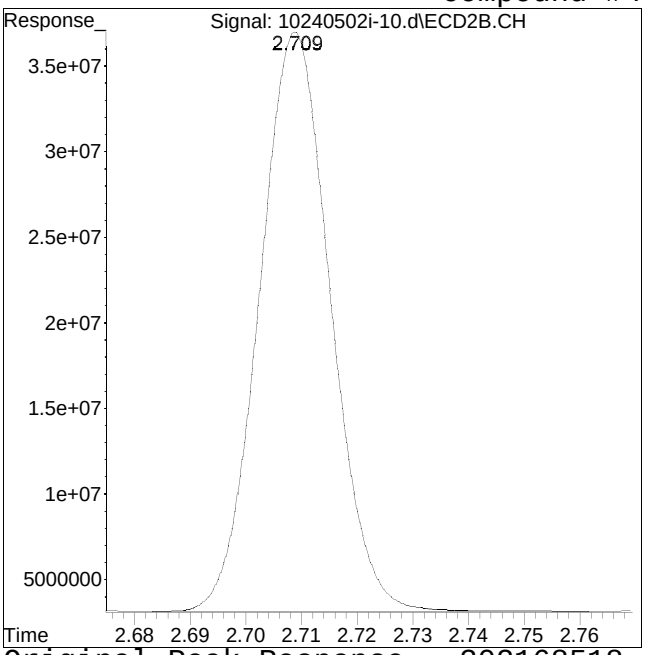


Original Peak Response = 856266804 Manual Peak Response = 849833686 M4
M4 = Poor automated baseline construction.

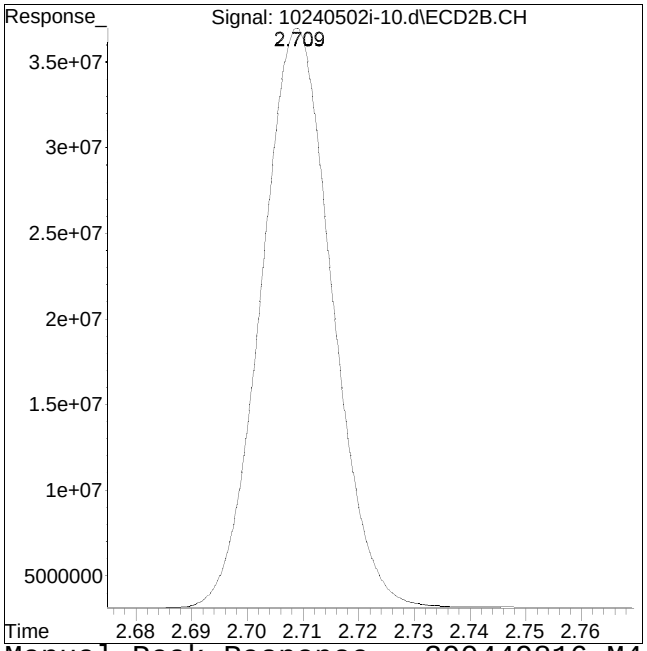
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-10.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 5:25 pm Instrument : Pest 10
Sample : il9pest,42e,,pp 11399 L0.1Quant Date : 5/7/2024 3:17 pm

Compound #44: beta-BHC #2



Original Peak Response = 302168518



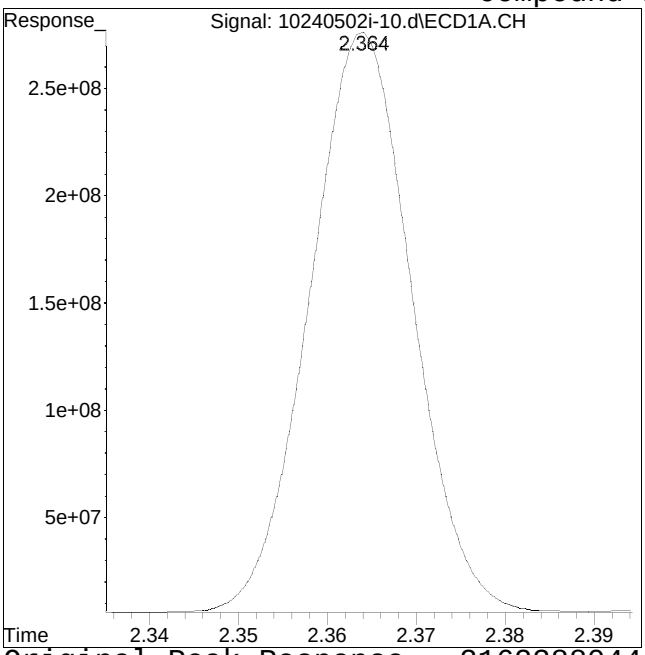
Manual Peak Response = 300449816 M4

M4 = Poor automated baseline construction.

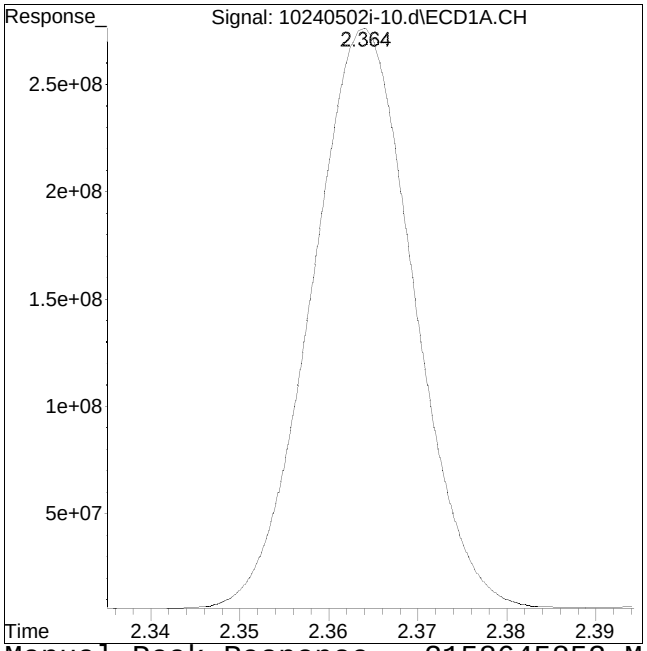
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-10.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 5:25 pm Instrument : Pest 10
Sample : il9pest,42e,,pp 11399 L0.1Quant Date : 5/7/2024 3:17 pm

Compound #7: delta-BHC



Original Peak Response = 2162388044

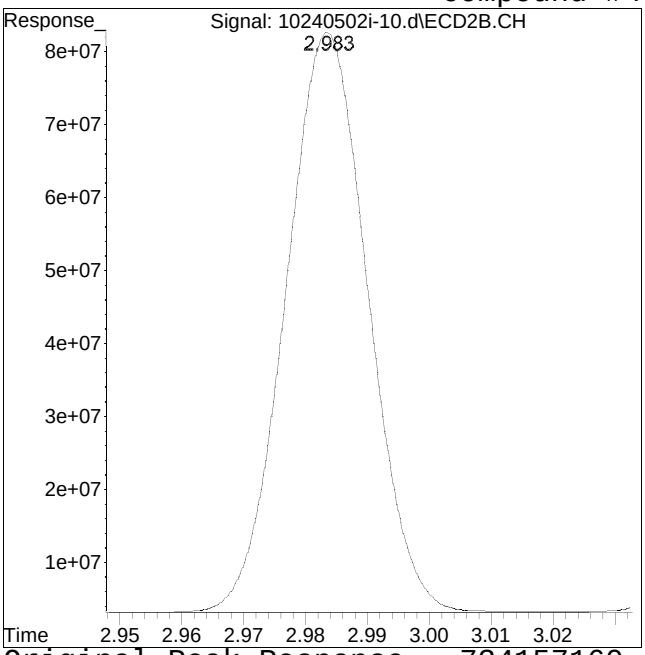


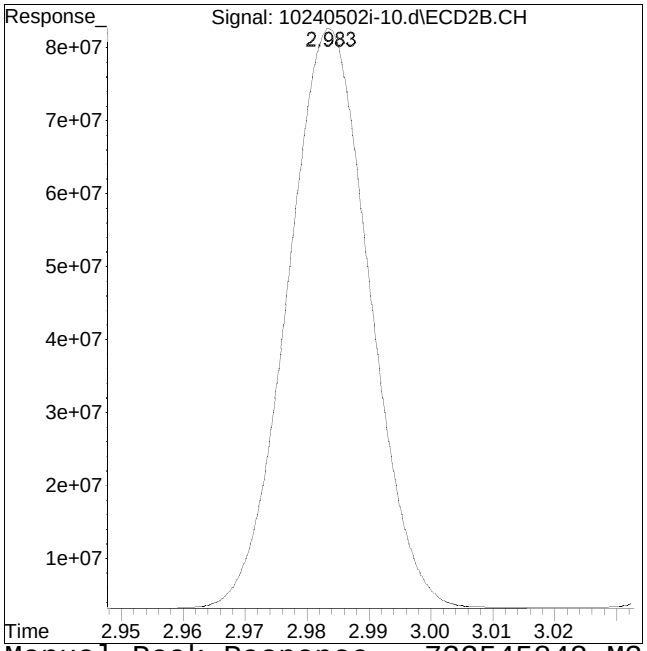
Manual Peak Response = 2158645853 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-10.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 5:25 pm Instrument : Pest 10
Sample : il9pest,42e,,pp 11399 L0.1Quant Date : 5/7/2024 3:17 pm

Compound #45: delta-BHC #2



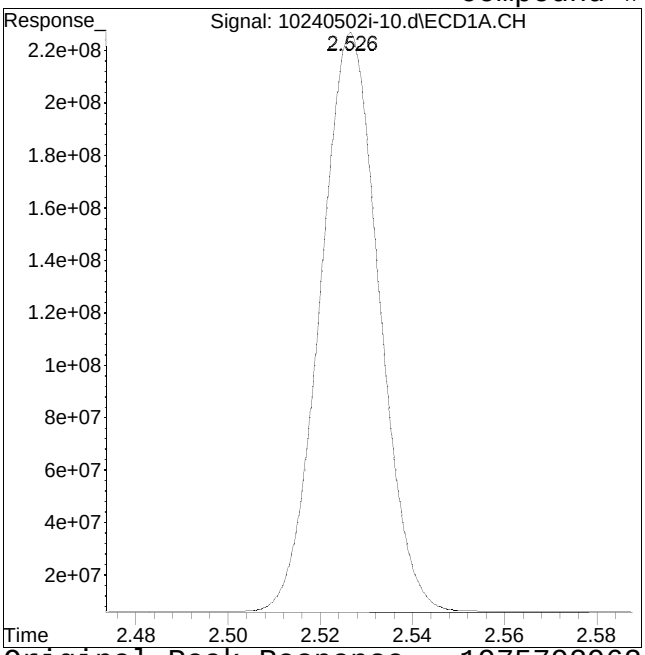


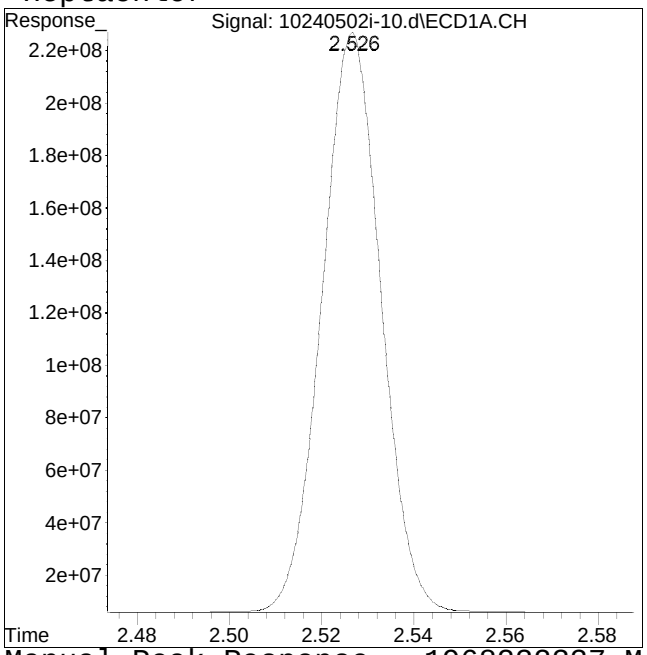
Original Peak Response = 734157160 Manual Peak Response = 733545848 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-10.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 5:25 pm Instrument : Pest 10
Sample : il9pest,42e,,pp 11399 L0.1Quant Date : 5/7/2024 3:17 pm

Compound #8: Heptachlor





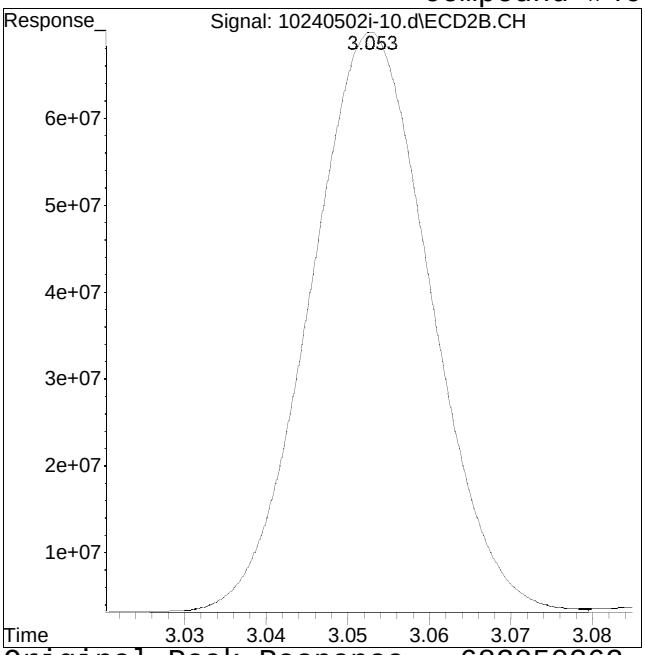
Original Peak Response = 1975792962 Manual Peak Response = 1968232337 M4
M4 = Poor automated baseline construction.

Manual Integration Report

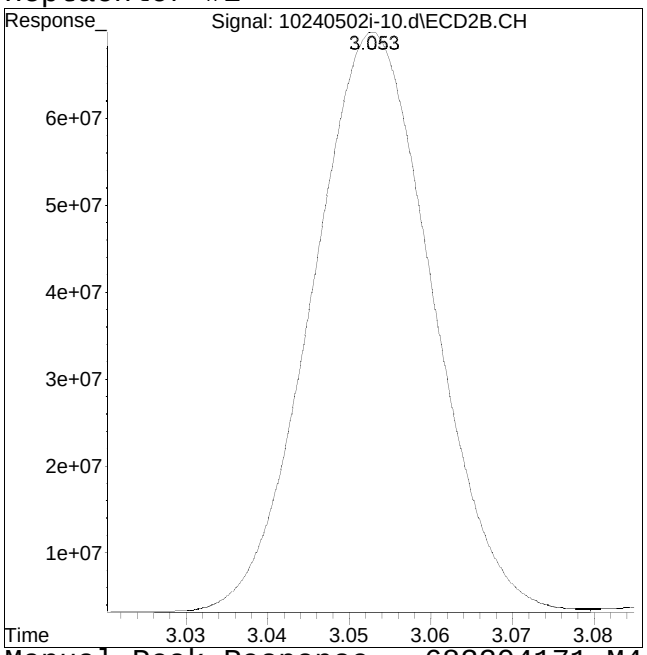
Data Path : I:\PEST\Pest10\2024\240502Q
Data File : 10240502i-10.d
Date Inj'd : 5/2/2024 5:25 pm
Sample : il9pest,42e,,pp 11399 L0.1

Method : pest10_2024_05_02_ugL_ic
Operator : PEST10:jag
Instrument : Pest 10
Quant Date : 5/7/2024 3:17 pm

Compound #46: Heptachlor #2



Original Peak Response = 683850362



Manual Peak Response = 683304171 M4

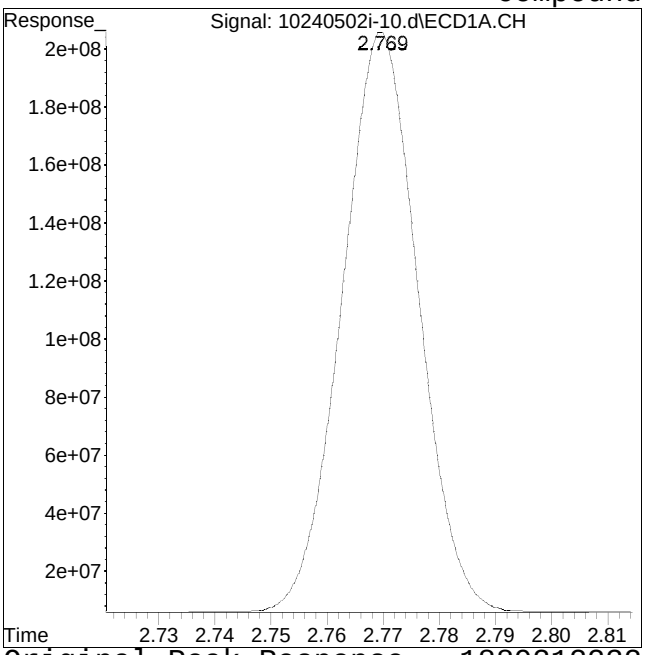
M4 = Poor automated baseline construction.

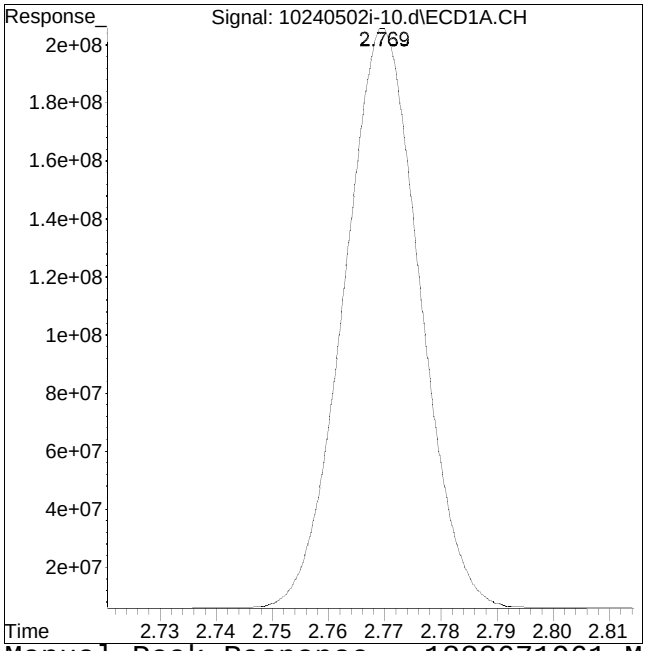
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502Q
Data File : 10240502i-10.d
Date Inj'd : 5/2/2024 5:25 pm
Sample : il9pest,42e,,pp 11399 L0.1

Method : pest10_2024_05_02_ugL_ic
Operator : PEST10:jag
Instrument : Pest 10
Quant Date : 5/7/2024 3:17 pm

Compound #9: Aldrin



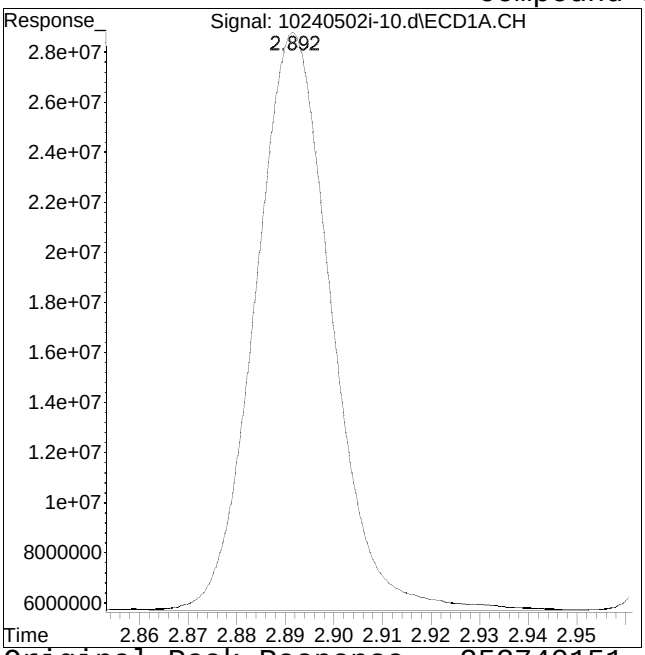


Original Peak Response = 1889212232 Manual Peak Response = 1888671961 M4
M4 = Poor automated baseline construction.

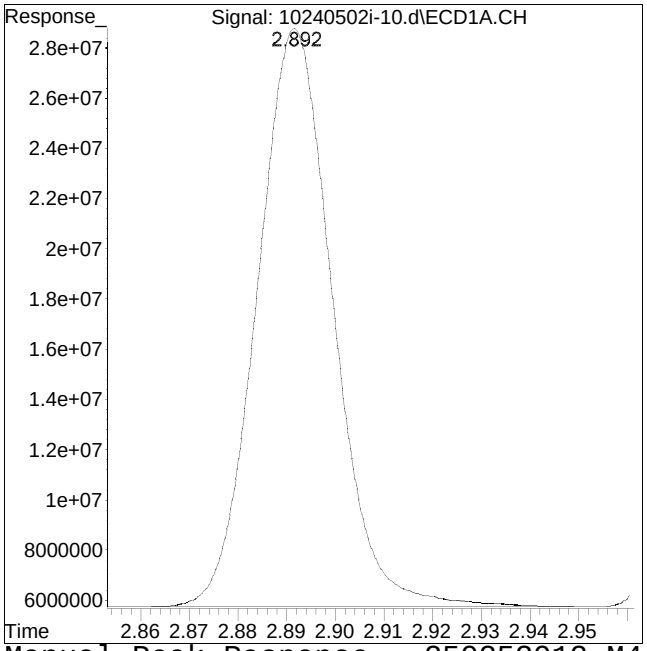
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-10.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 5:25 pm Instrument : Pest 10
Sample : il9pest,42e,,pp 11399 L0.1Quant Date : 5/7/2024 3:17 pm

Compound #10: Alachlor



Original Peak Response = 253740151



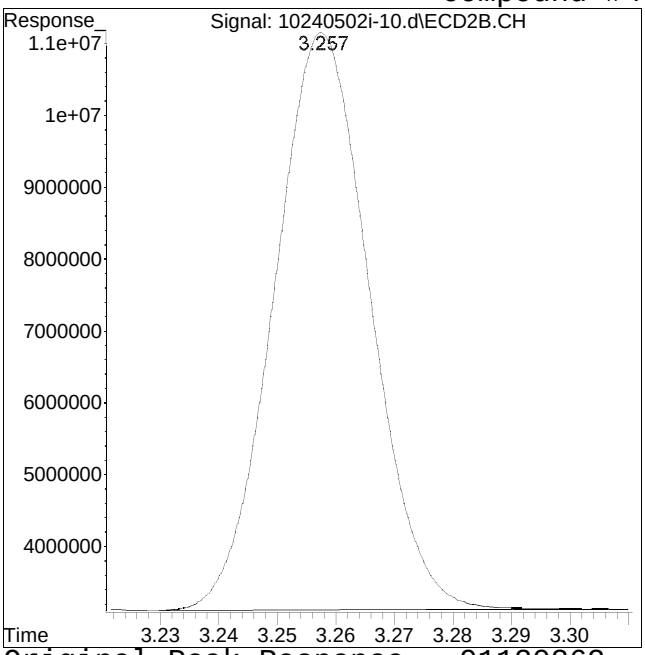
Manual Peak Response = 250253912 M4

M4 = Poor automated baseline construction.

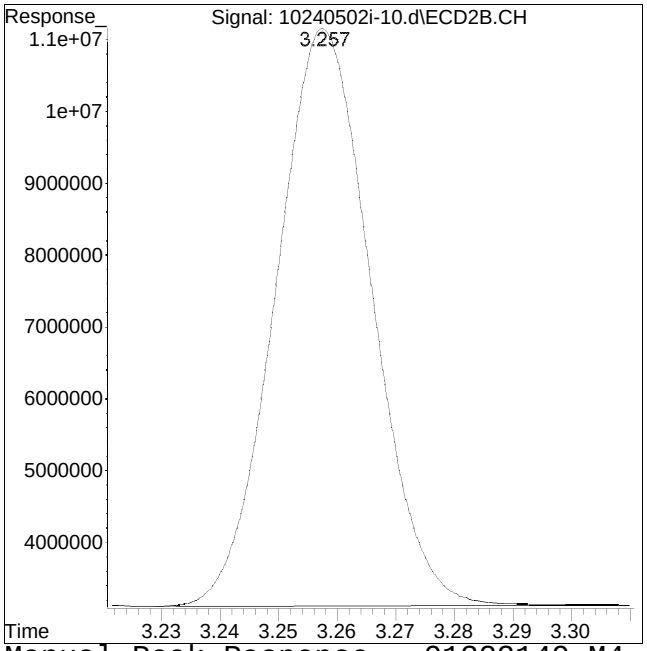
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-10.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 5:25 pm Instrument : Pest 10
Sample : il9pest,42e,,pp 11399 L0.1Quant Date : 5/7/2024 3:17 pm

Compound #48: Alachlor #2



Original Peak Response = 91120262

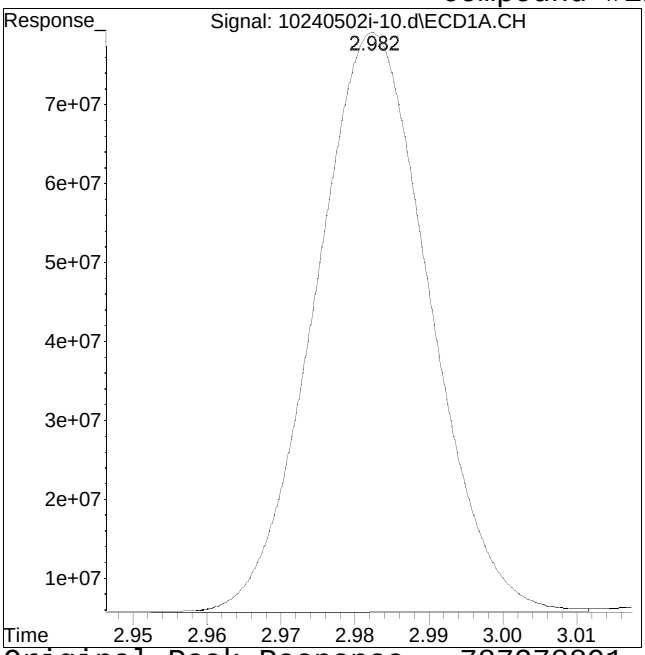


Manual Peak Response = 91322149 M4
M4 = Poor automated baseline construction.

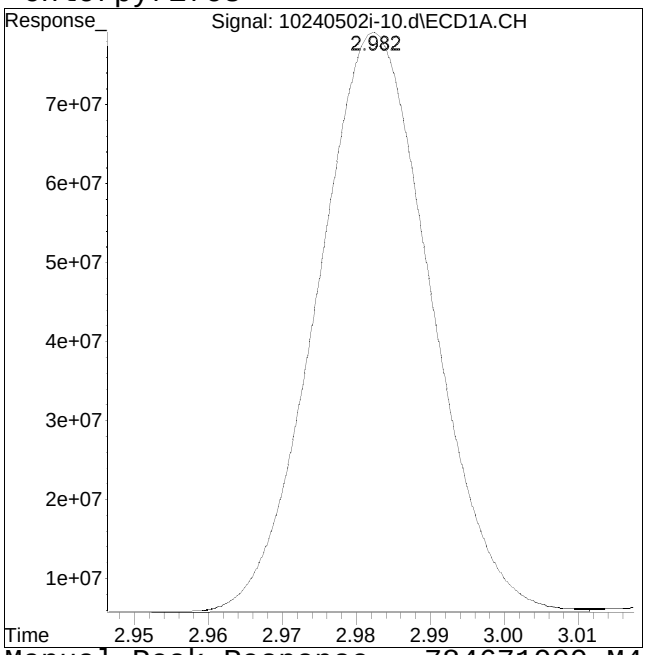
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-10.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 5:25 pm Instrument : Pest 10
Sample : il9pest,42e,,pp 11399 L0.1Quant Date : 5/7/2024 3:17 pm

Compound #11: Chlorpyrifos



Original Peak Response = 787278891



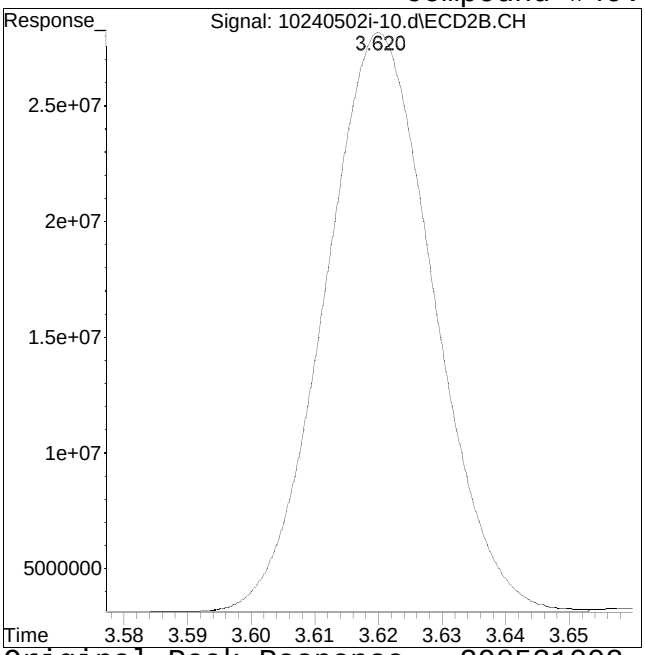
Manual Peak Response = 784671000 M4

M4 = Poor automated baseline construction.

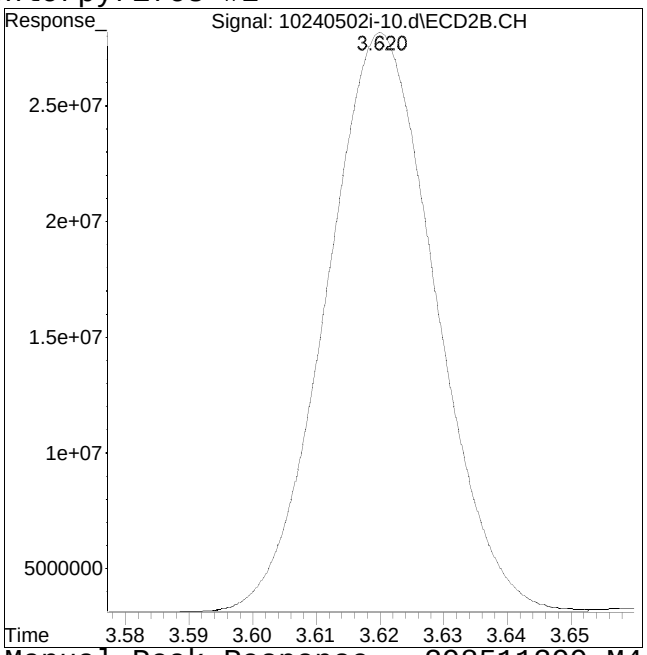
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-10.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 5:25 pm Instrument : Pest 10
Sample : il9pest,42e,,pp 11399 L0.1Quant Date : 5/7/2024 3:17 pm

Compound #49: Chlorpyrifos #2



Original Peak Response = 298531002



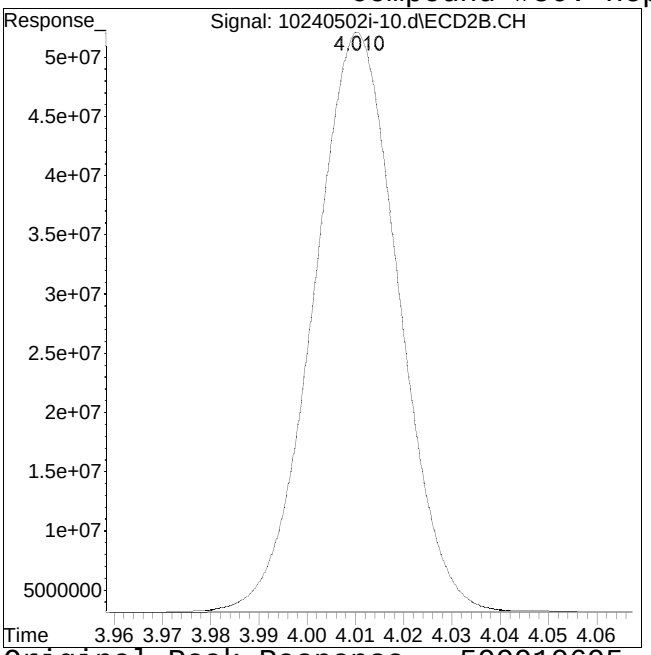
Manual Peak Response = 298511399 M4

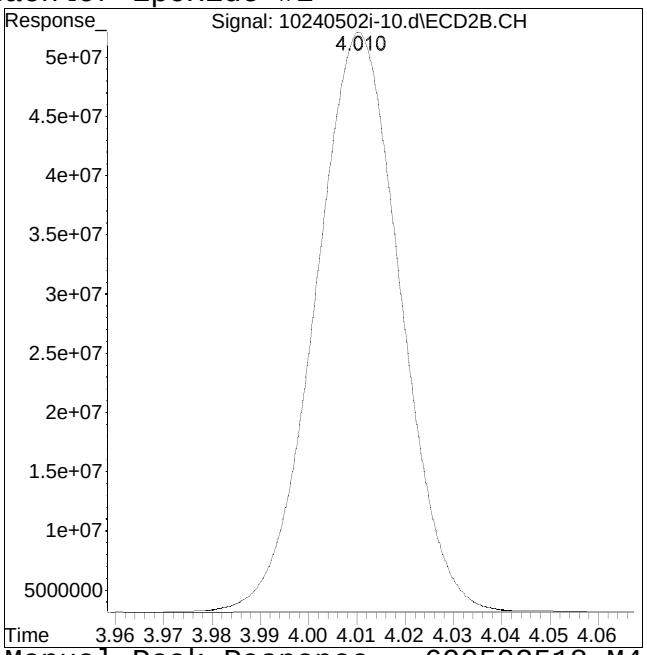
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-10.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 5:25 pm Instrument : Pest 10
Sample : il9pest,42e,,pp 11399 L0.1Quant Date : 5/7/2024 3:17 pm

Compound #50: Heptachlor Epoxide #2



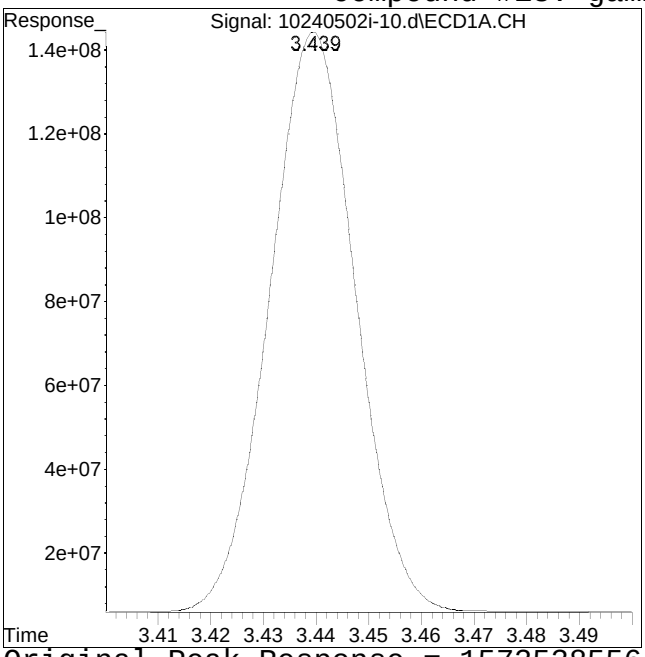


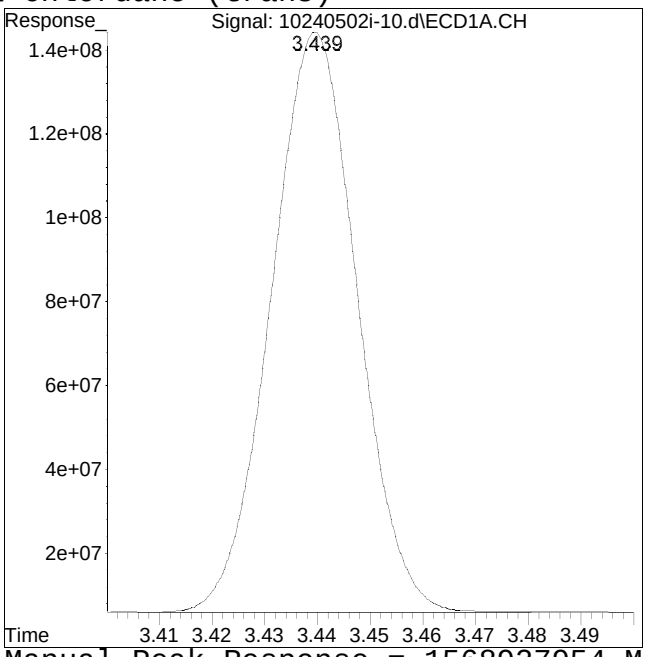
Original Peak Response = 599910695 Manual Peak Response = 600592518 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-10.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 5:25 pm Instrument : Pest 10
Sample : il9pest,42e,,pp 11399 L0.1Quant Date : 5/7/2024 3:17 pm

Compound #13: gamma-Chlordane (trans)



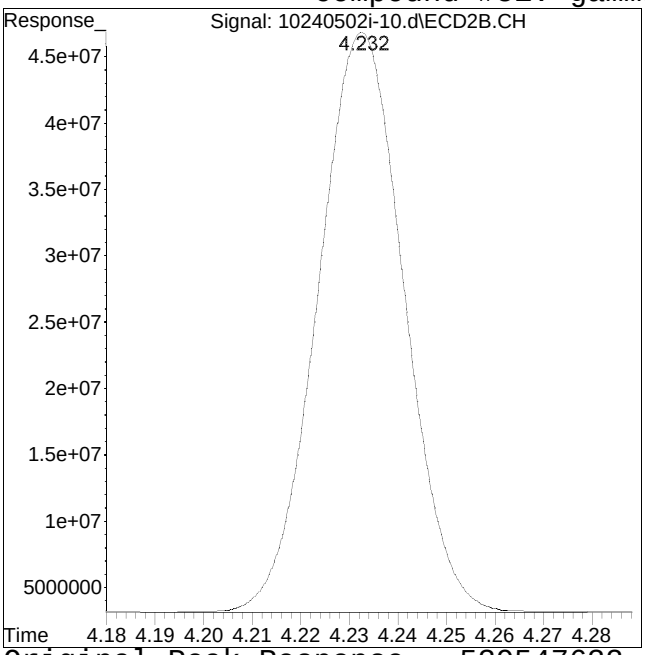


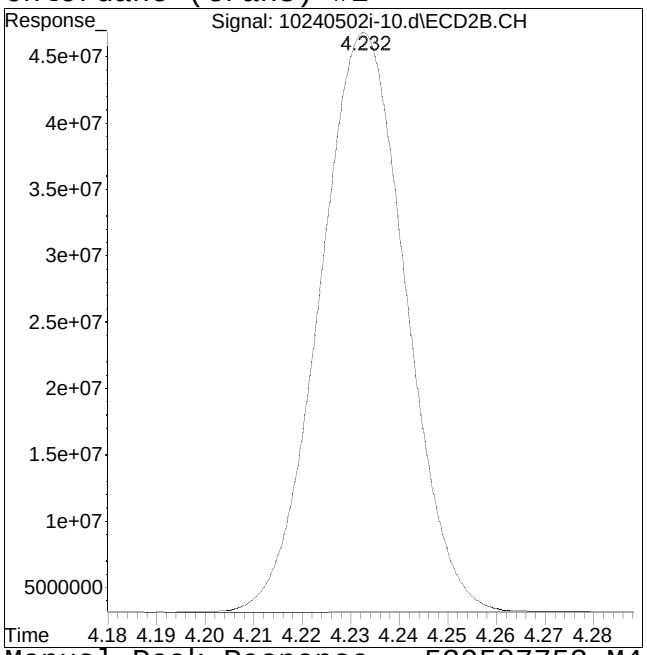
Original Peak Response = 1573538556 Manual Peak Response = 1568927954 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-10.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 5:25 pm Instrument : Pest 10
Sample : il9pest,42e,,pp 11399 L0.1Quant Date : 5/7/2024 3:17 pm

Compound #51: gamma-Chlordane (trans) #2



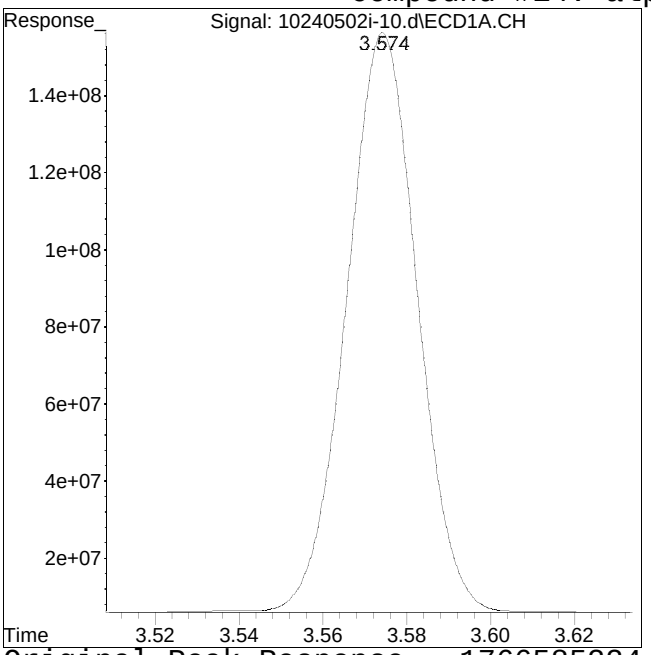


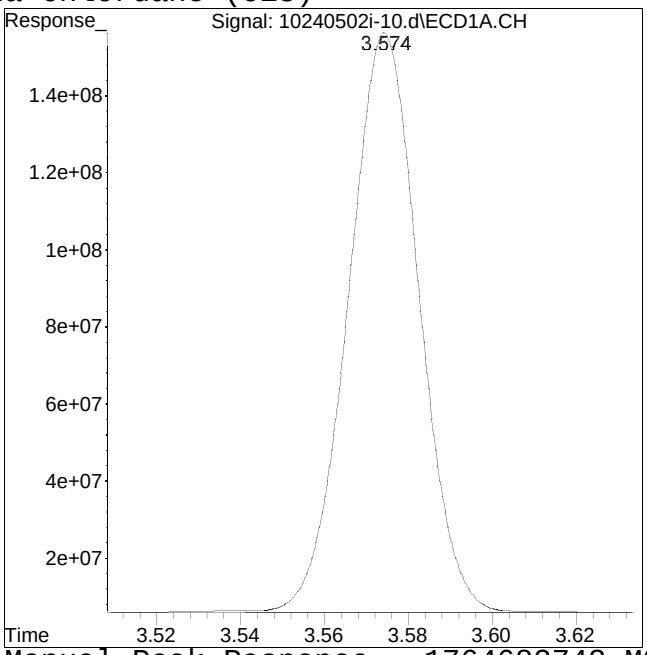
Original Peak Response = 539547632 Manual Peak Response = 539587753 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-10.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 5:25 pm Instrument : Pest 10
Sample : il9pest,42e,,pp 11399 L0.1Quant Date : 5/7/2024 3:17 pm

Compound #14: alpha-Chlordane (cis)



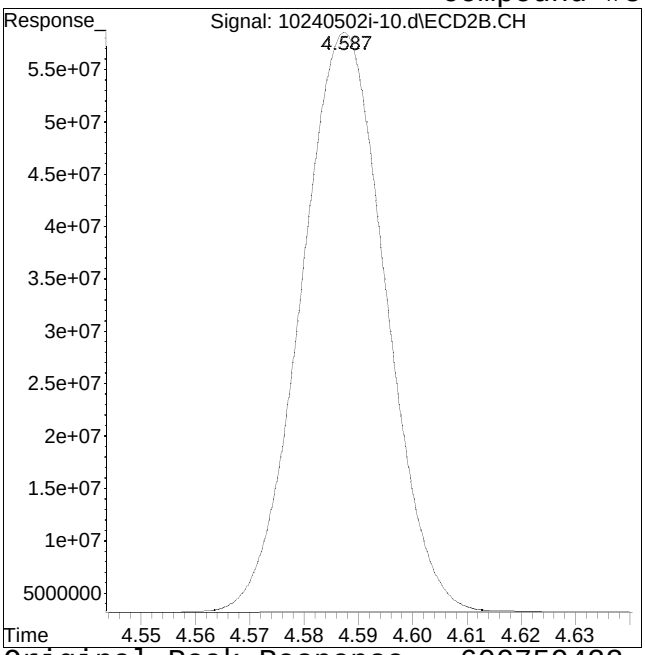


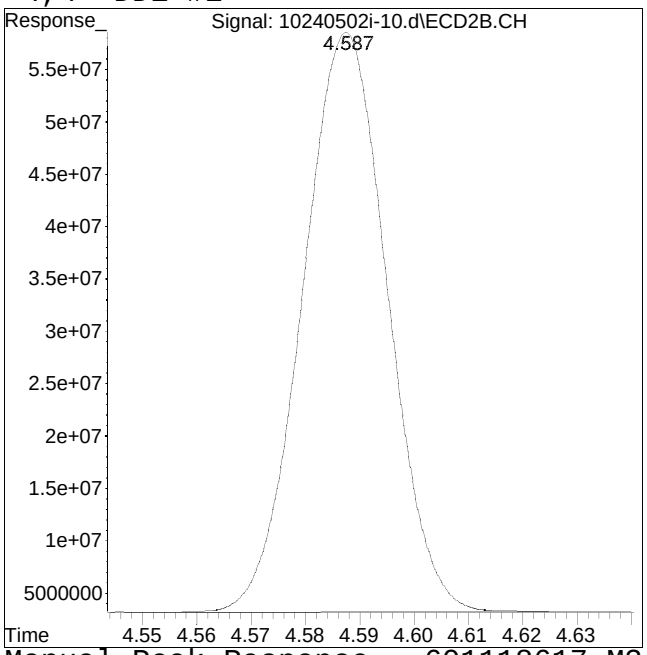
Original Peak Response = 1766585224 Manual Peak Response = 1764682743 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-10.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 5:25 pm Instrument : Pest 10
Sample : il9pest,42e,,pp 11399 L0.1Quant Date : 5/7/2024 3:17 pm

Compound #53: 4,4'-DDE #2



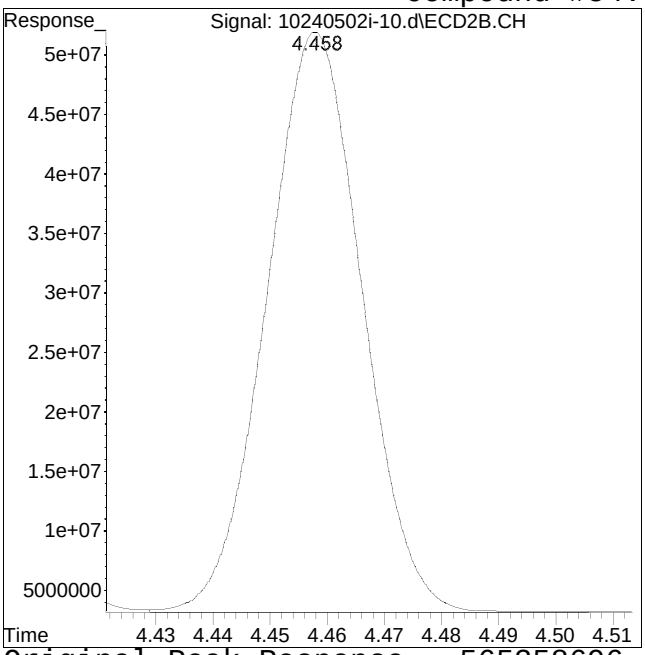


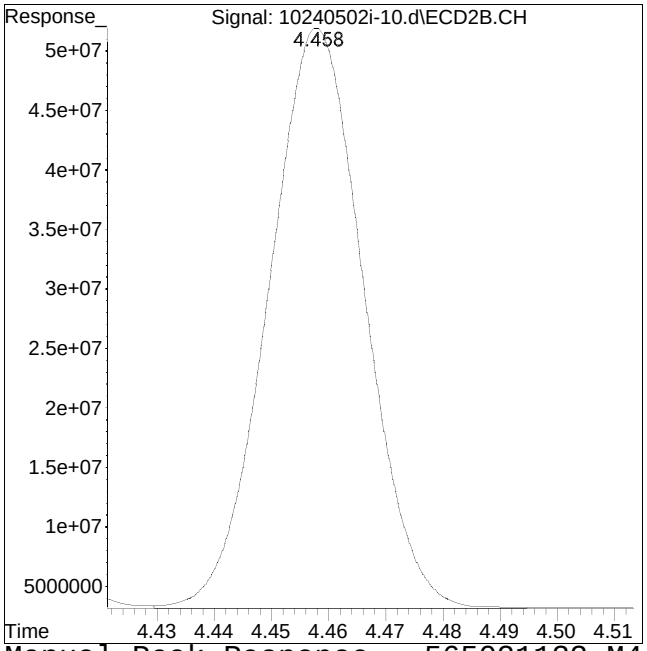
Original Peak Response = 600759422 Manual Peak Response = 601118617 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-10.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 5:25 pm Instrument : Pest 10
Sample : il9pest,42e,,pp 11399 L0.1Quant Date : 5/7/2024 3:17 pm

Compound #54: Endosulfan I #2



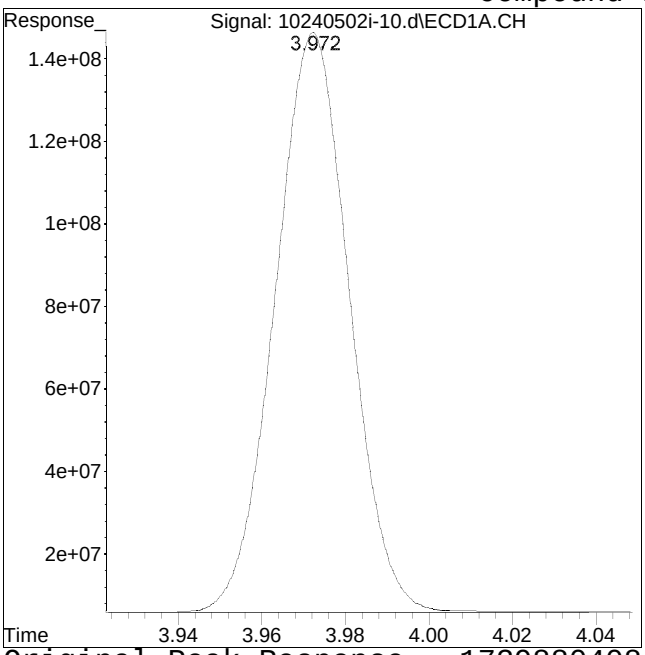


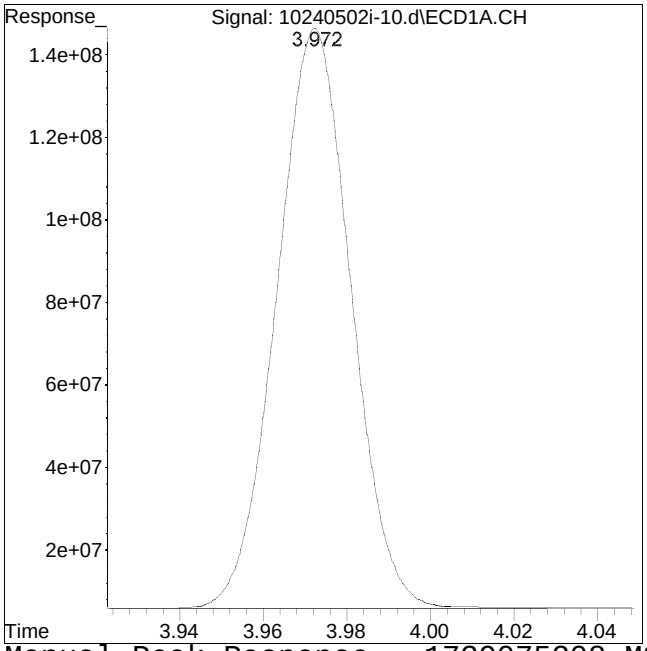
Original Peak Response = 565358696 Manual Peak Response = 565021133 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-10.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 5:25 pm Instrument : Pest 10
Sample : il9pest,42e,,pp 11399 L0.1Quant Date : 5/7/2024 3:17 pm

Compound #17: Dieldrin





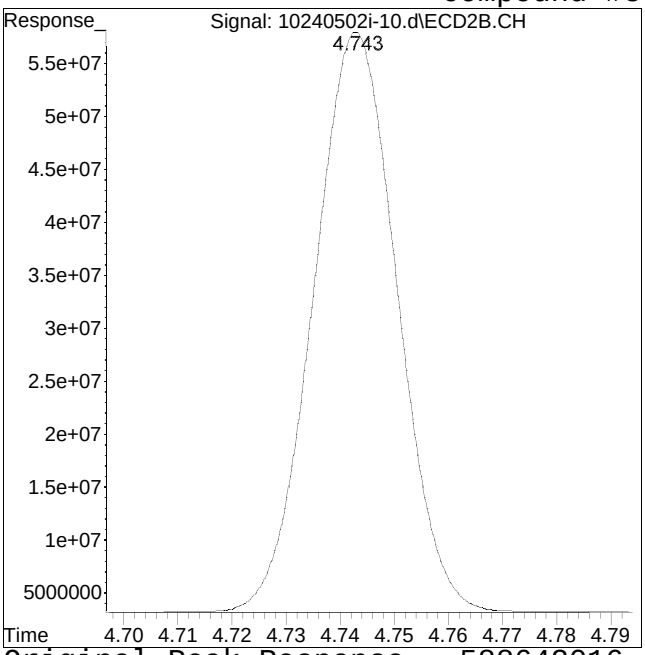
Original Peak Response = 1739880408 Manual Peak Response = 1739075208 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

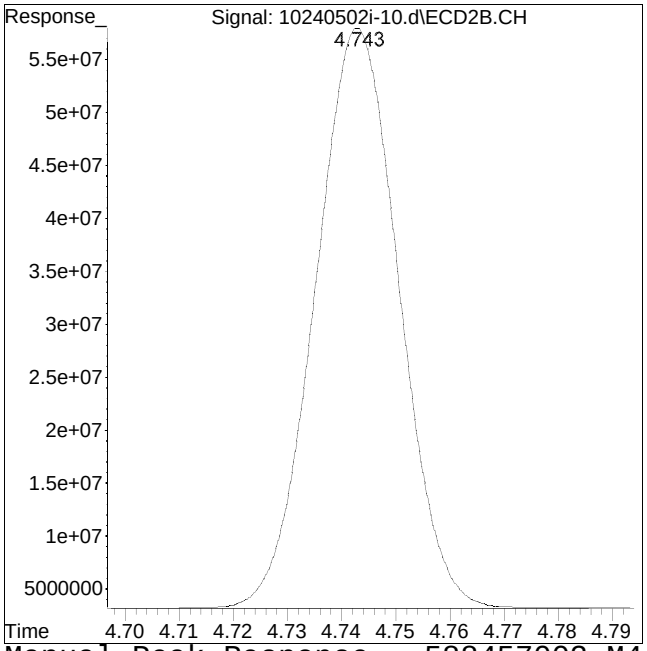
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502Q
Data File : 10240502i-10.d
Date Inj'd : 5/2/2024 5:25 pm
Sample : il9pest,42e,,pp 11399 L0.1

Method : pest10_2024_05_02_ugL_ic
Operator : PEST10:jag
Instrument : Pest 10
Quant Date : 5/7/2024 3:17 pm

Compound #55: Dieldrin #2



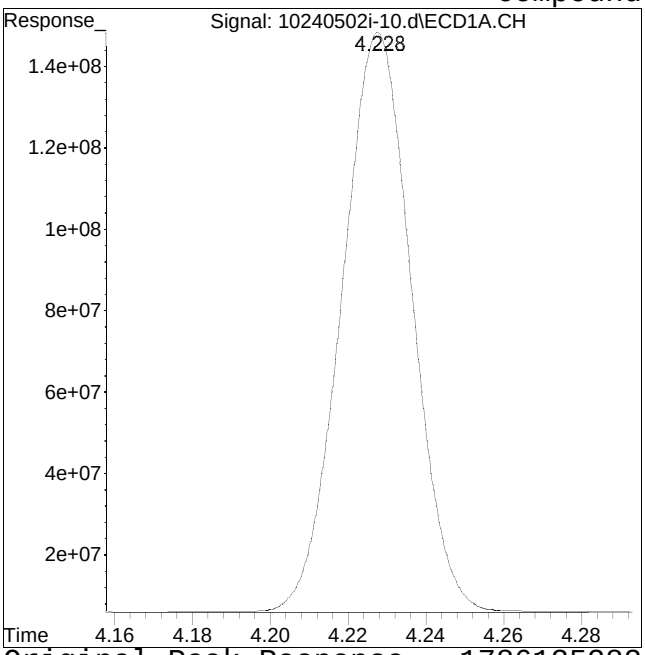


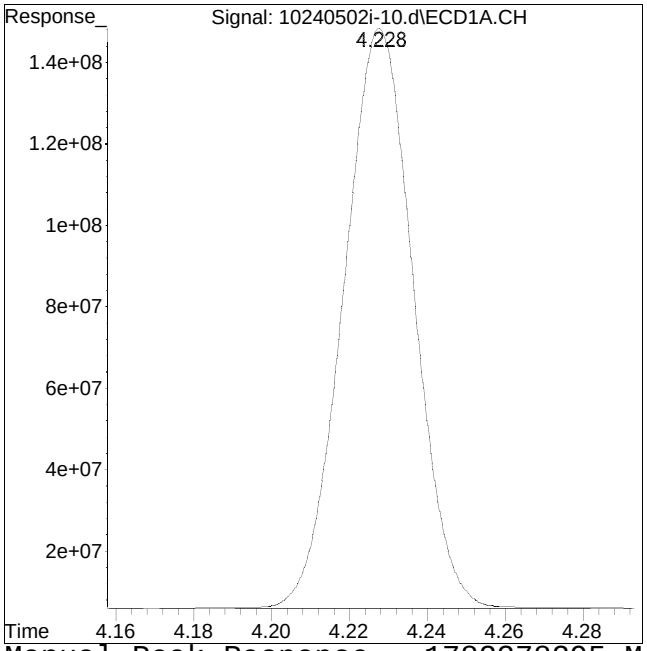
Original Peak Response = 588642016 Manual Peak Response = 588457003 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-10.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 5:25 pm Instrument : Pest 10
Sample : il9pest,42e,,pp 11399 L0.1Quant Date : 5/7/2024 3:17 pm

Compound #18: Endrin



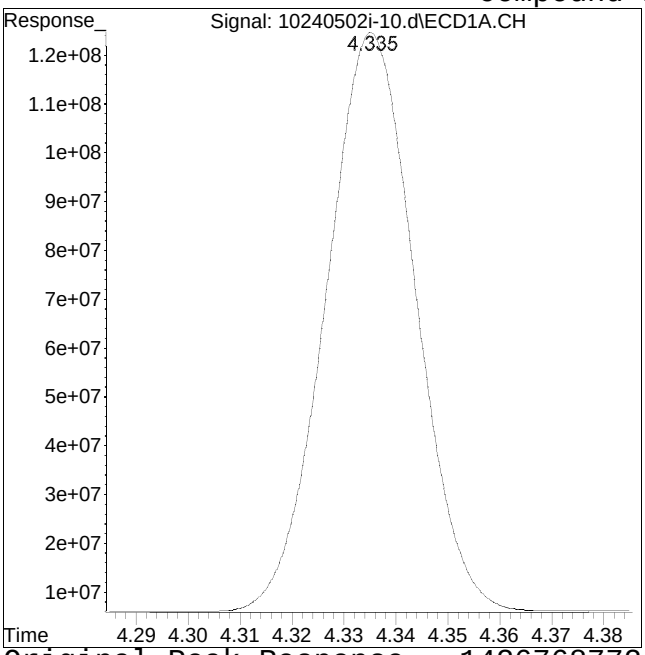


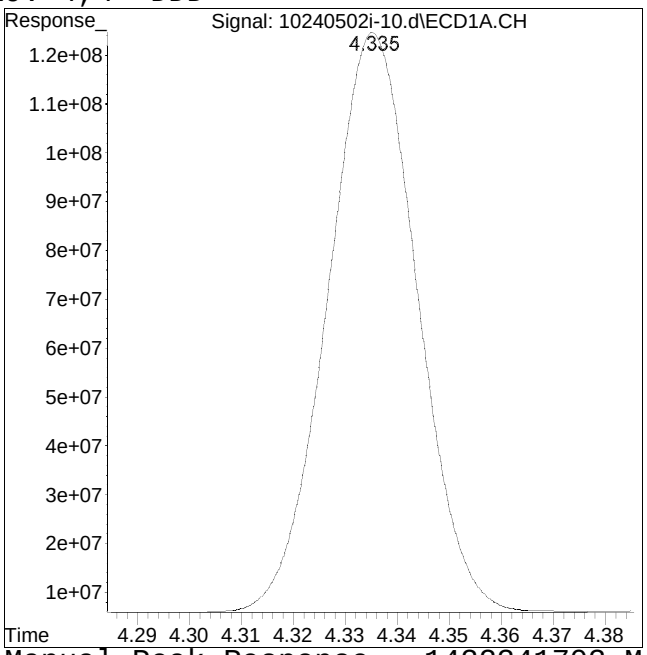
Original Peak Response = 1786125282 Manual Peak Response = 1782378295 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-10.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 5:25 pm Instrument : Pest 10
Sample : il9pest,42e,,pp 11399 L0.1Quant Date : 5/7/2024 3:17 pm

Compound #19: 4,4'-DDD



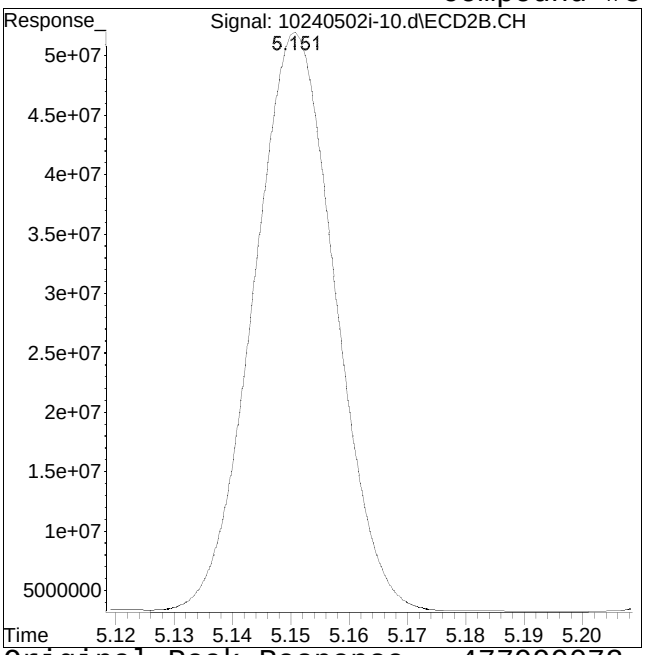


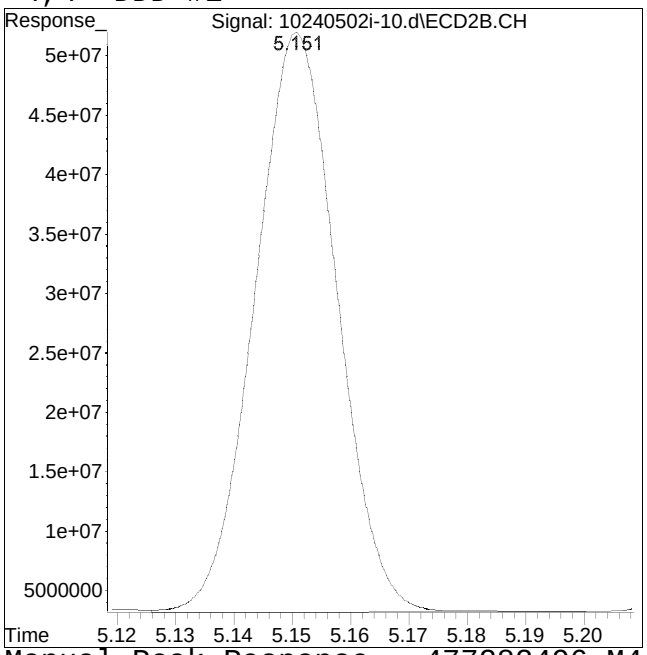
Original Peak Response = 1426768772 Manual Peak Response = 1422341703 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-10.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 5:25 pm Instrument : Pest 10
Sample : il9pest,42e,,pp 11399 L0.1Quant Date : 5/7/2024 3:17 pm

Compound #57: 4,4'-DDD #2





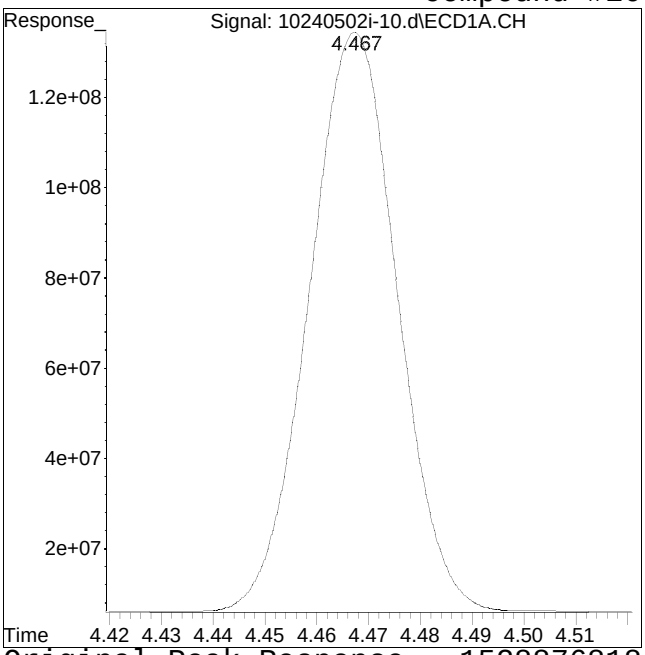
Original Peak Response = 477999072 Manual Peak Response = 477282496 M4
M4 = Poor automated baseline construction.

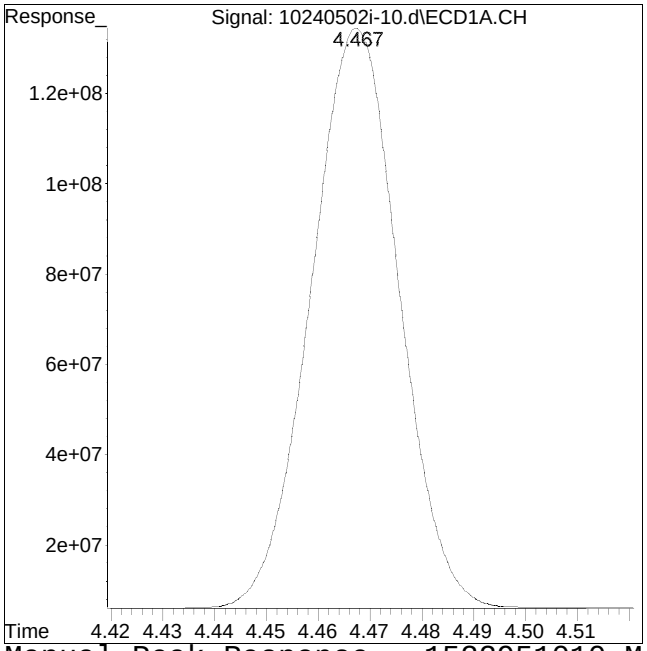
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502Q
Data File : 10240502i-10.d
Date Inj'd : 5/2/2024 5:25 pm
Sample : il9pest,42e,,pp 11399 L0.1

Method : pest10_2024_05_02_ugL_ic
Operator : PEST10:jag
Instrument : Pest 10
Quant Date : 5/7/2024 3:17 pm

Compound #20: Endosulfan II





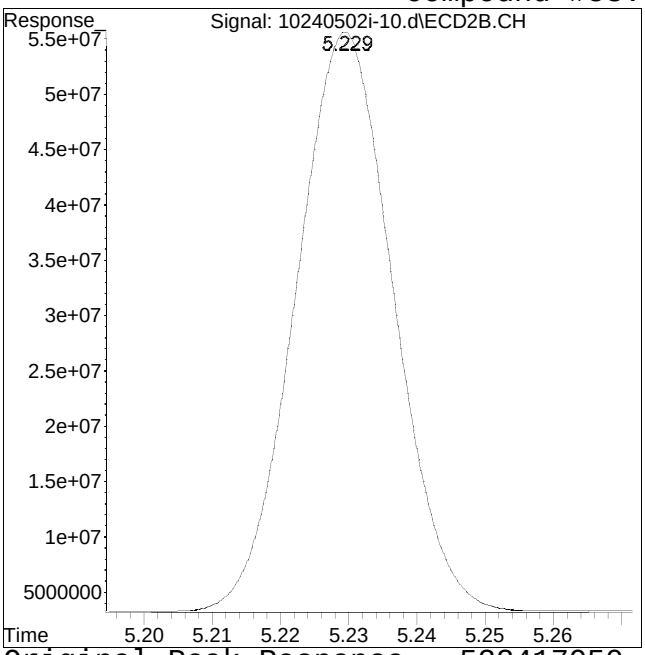
Original Peak Response = 1528876818 Manual Peak Response = 1522951010 M4
M4 = Poor automated baseline construction.

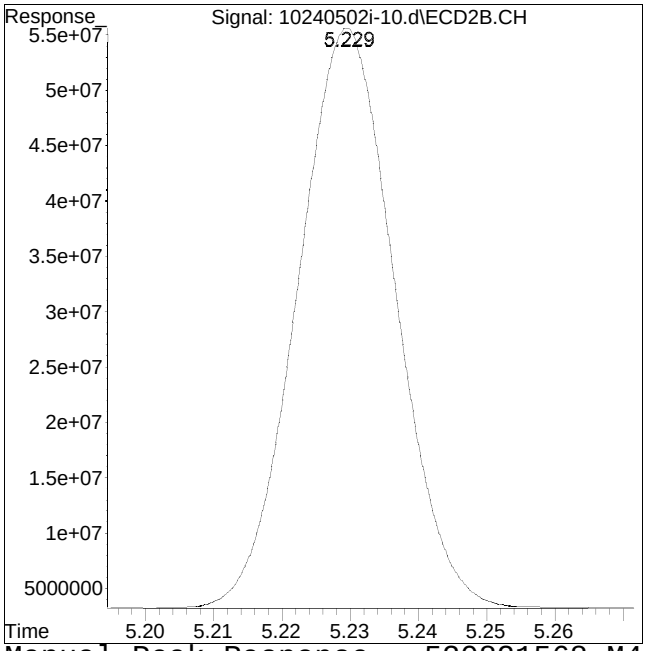
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502Q
Data File : 10240502i-10.d
Date Inj'd : 5/2/2024 5:25 pm
Sample : il9pest,42e,,pp 11399 L0.1

Method : pest10_2024_05_02_ugL_ic
Operator : PEST10:jag
Instrument : Pest 10
Quant Date : 5/7/2024 3:17 pm

Compound #58: Endosulfan II #2



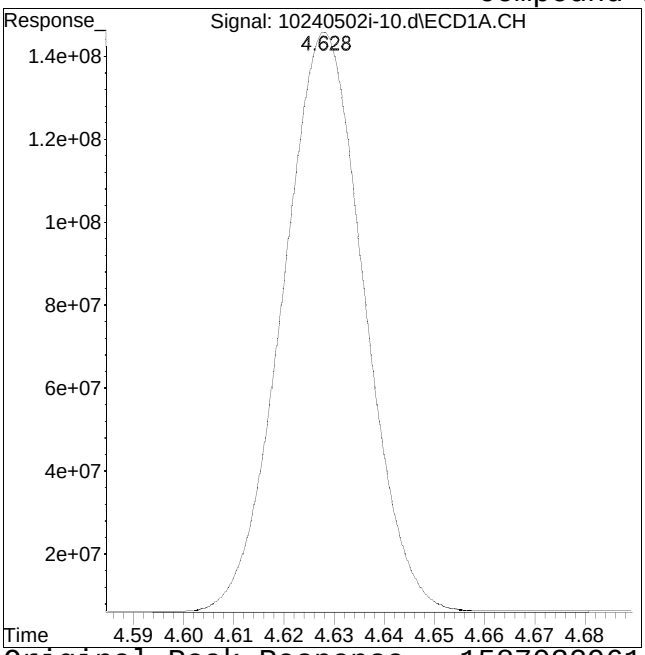


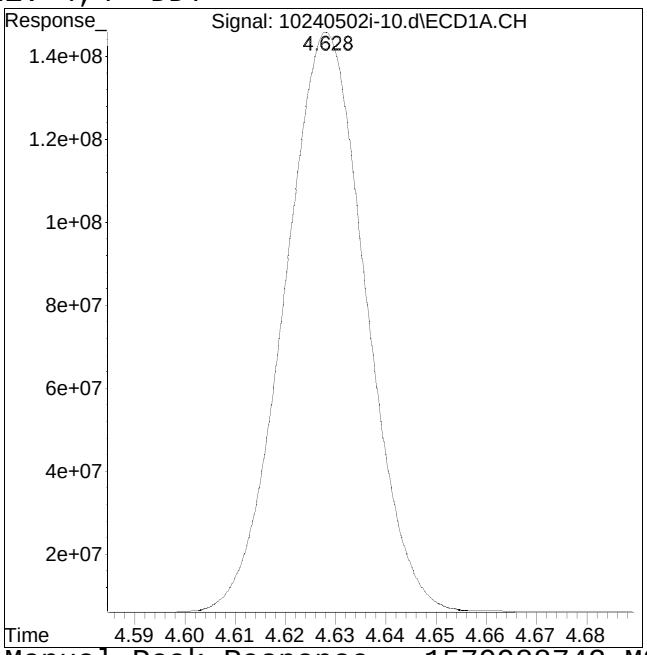
Original Peak Response = 522417950 Manual Peak Response = 520821568 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-10.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 5:25 pm Instrument : Pest 10
Sample : il9pest,42e,,pp 11399 L0.1Quant Date : 5/7/2024 3:17 pm

Compound #21: 4,4'-DDT



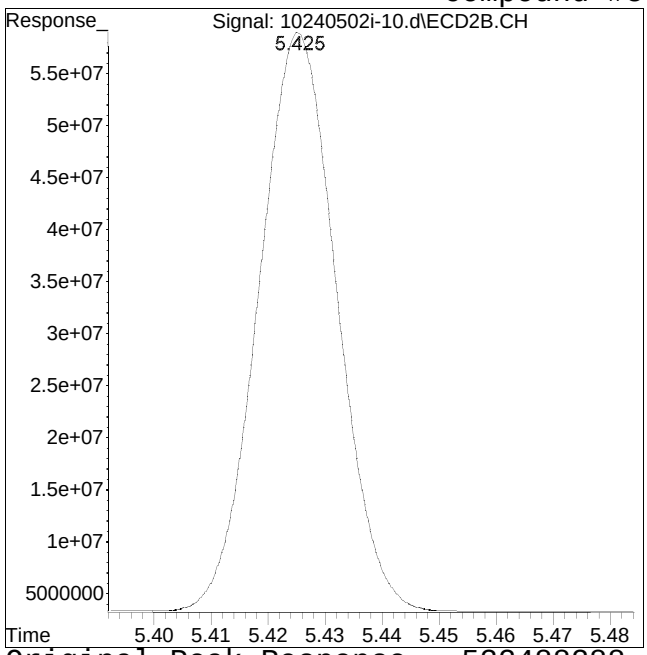


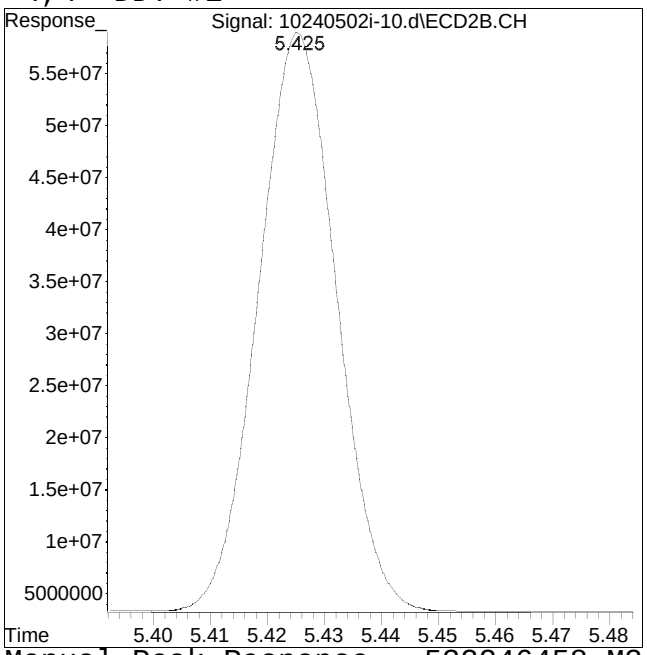
Original Peak Response = 1587032961 Manual Peak Response = 1579988742 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-10.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 5:25 pm Instrument : Pest 10
Sample : il9pest,42e,,pp 11399 L0.1Quant Date : 5/7/2024 3:17 pm

Compound #59: 4,4'-DDT #2



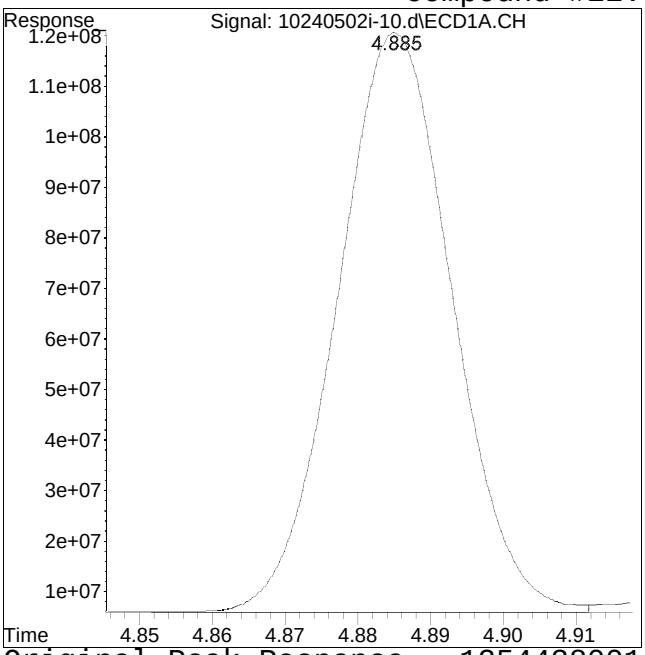


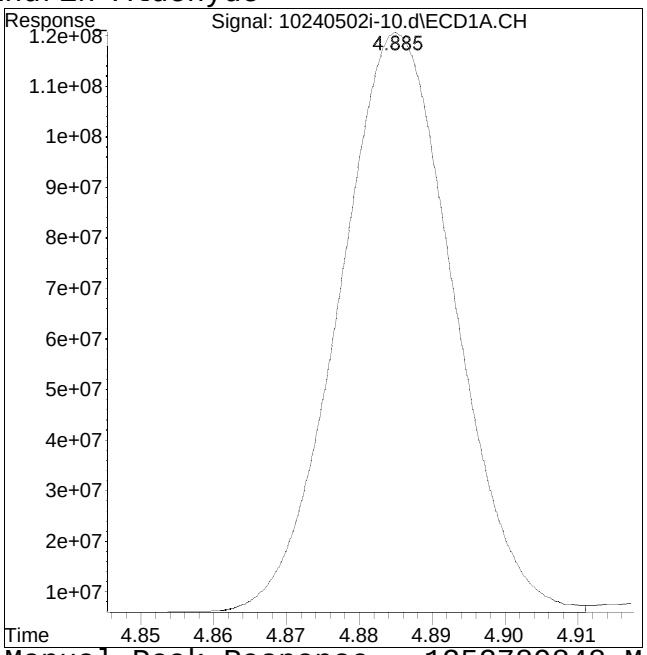
Original Peak Response = 532488288 Manual Peak Response = 532246458 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-10.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 5:25 pm Instrument : Pest 10
Sample : il9pest,42e,,pp 11399 L0.1Quant Date : 5/7/2024 3:17 pm

Compound #22: Endrin Aldehyde



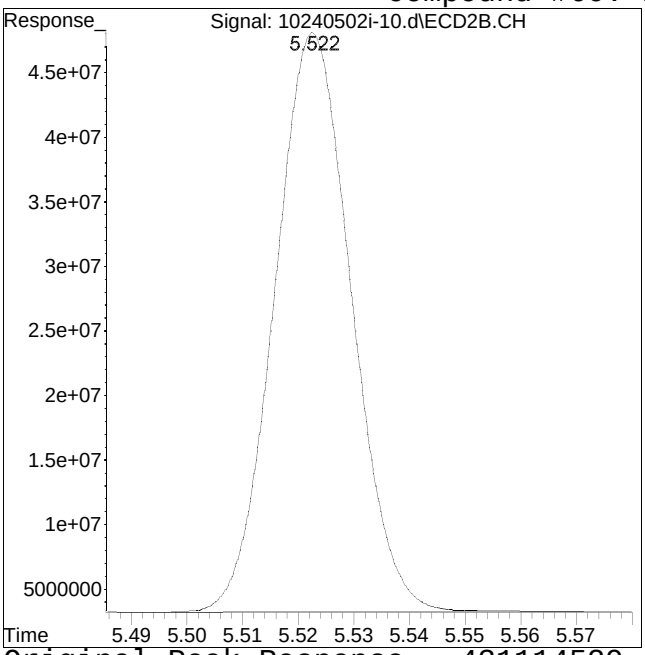


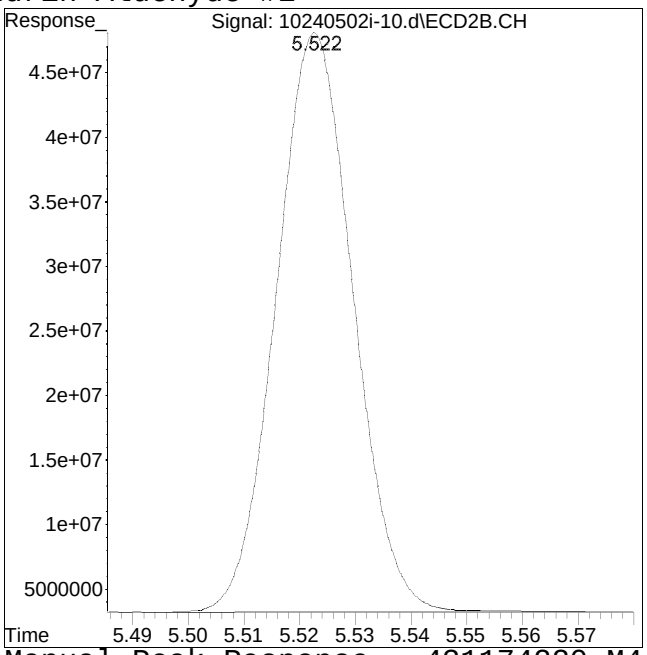
Original Peak Response = 1254438001 Manual Peak Response = 1252789848 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-10.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 5:25 pm Instrument : Pest 10
Sample : il9pest,42e,,pp 11399 L0.1Quant Date : 5/7/2024 3:17 pm

Compound #60: Endrin Aldehyde #2





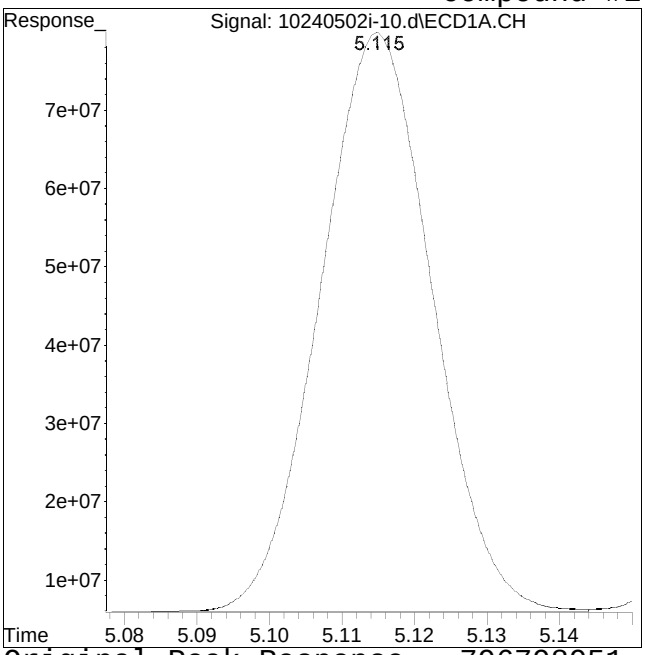
Original Peak Response = 431114529 Manual Peak Response = 431174220 M4
M4 = Poor automated baseline construction.

Manual Integration Report

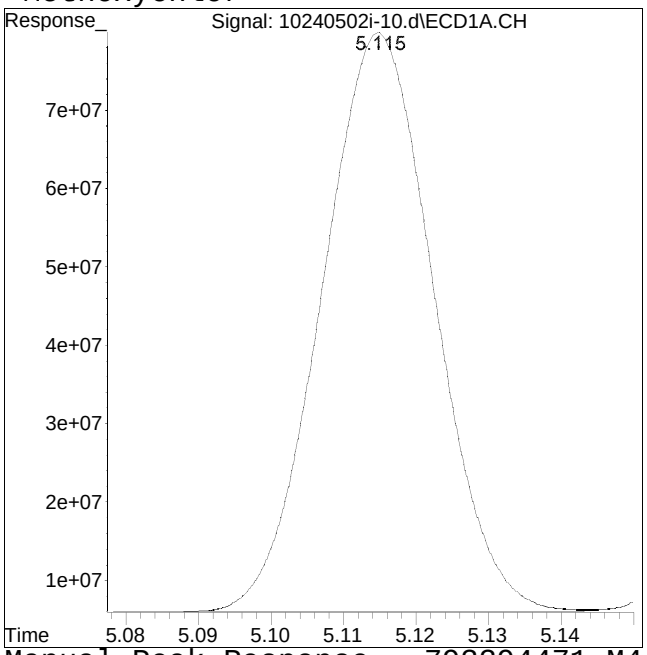
Data Path : I:\PEST\Pest10\2024\240502Q
Data File : 10240502i-10.d
Date Inj'd : 5/2/2024 5:25 pm
Sample : il9pest,42e,,pp 11399 L0.1

Method : pest10_2024_05_02_ugL_ic
Operator : PEST10:jag
Instrument : Pest 10
Quant Date : 5/7/2024 3:17 pm

Compound #23: Methoxychlor



Original Peak Response = 796798951



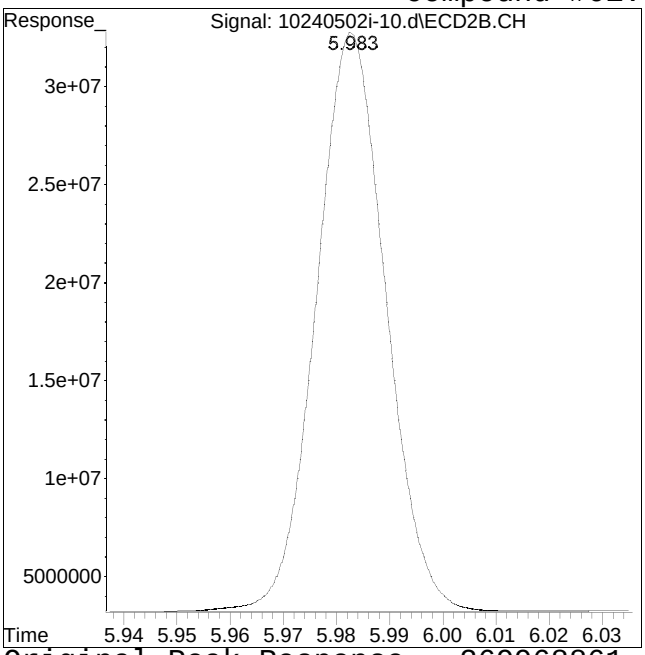
Manual Peak Response = 793394471 M4

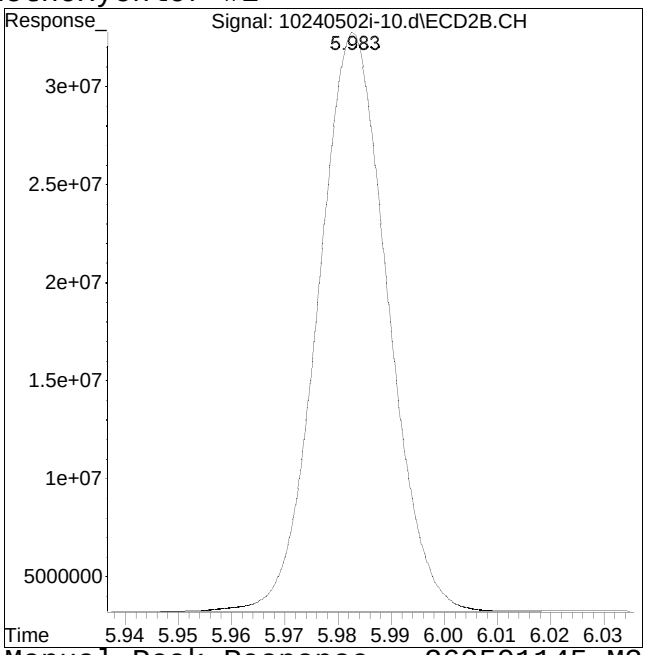
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-10.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 5:25 pm Instrument : Pest 10
Sample : il9pest,42e,,pp 11399 L0.1Quant Date : 5/7/2024 3:17 pm

Compound #61: Methoxychlor #2



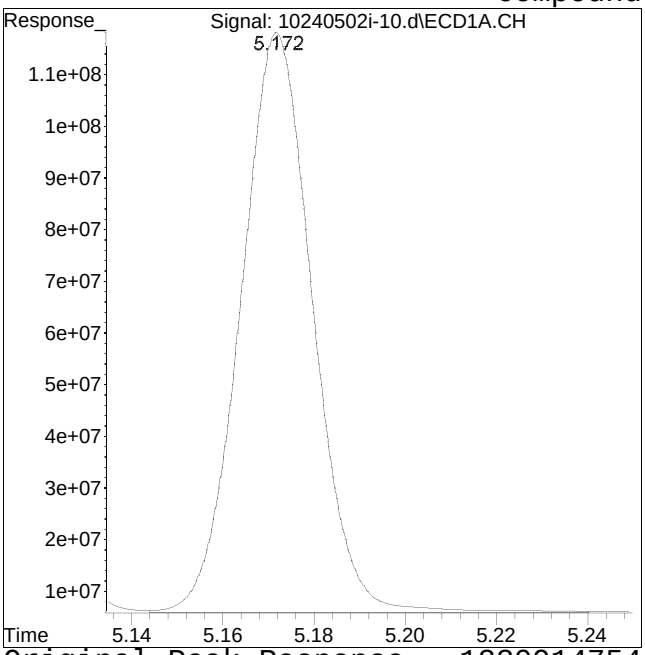


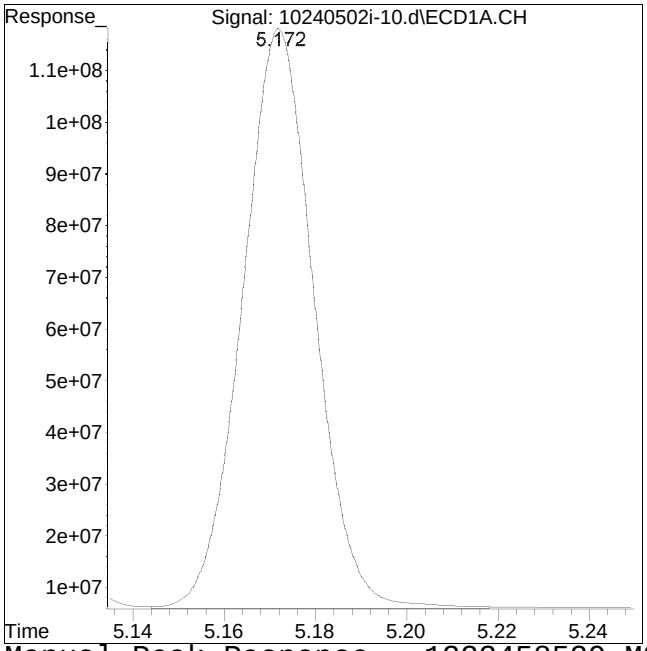
Original Peak Response = 269968861 Manual Peak Response = 269501145 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-10.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 5:25 pm Instrument : Pest 10
Sample : il9pest,42e,,pp 11399 L0.1Quant Date : 5/7/2024 3:17 pm

Compound #24: Mirex



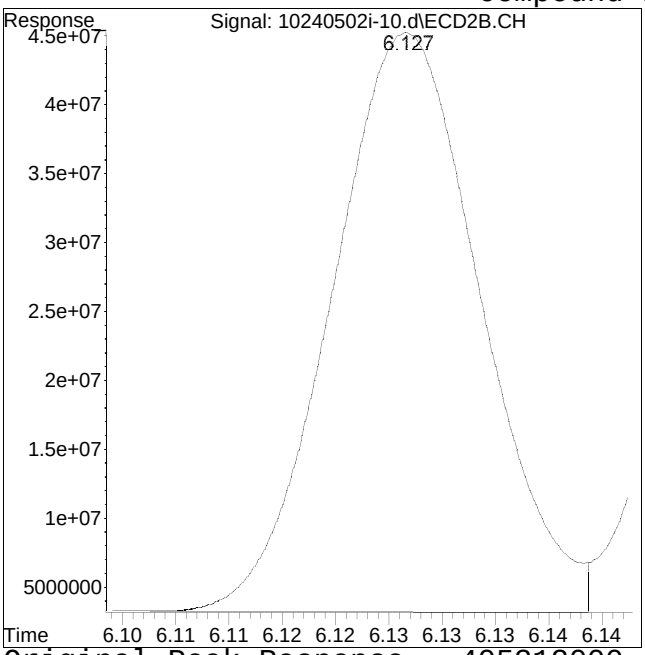


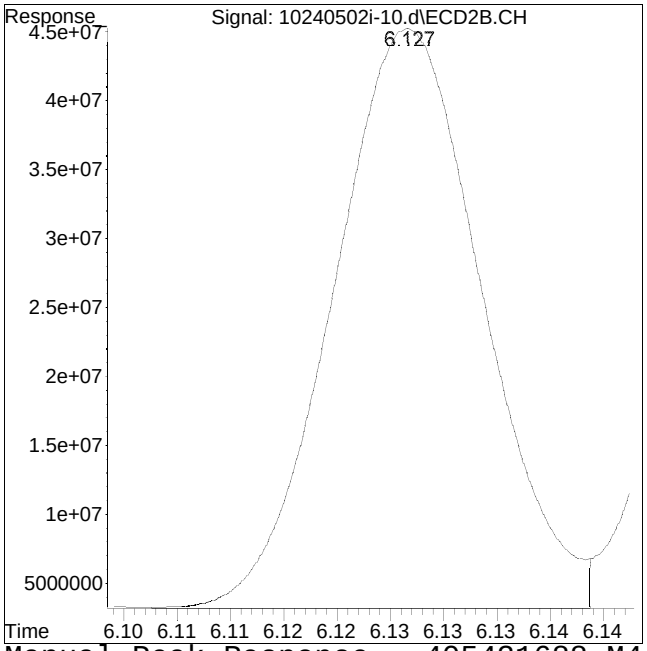
Original Peak Response = 1230914754 Manual Peak Response = 1223458529 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-10.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 5:25 pm Instrument : Pest 10
Sample : il9pest,42e,,pp 11399 L0.1Quant Date : 5/7/2024 3:17 pm

Compound #62: Mirex #2





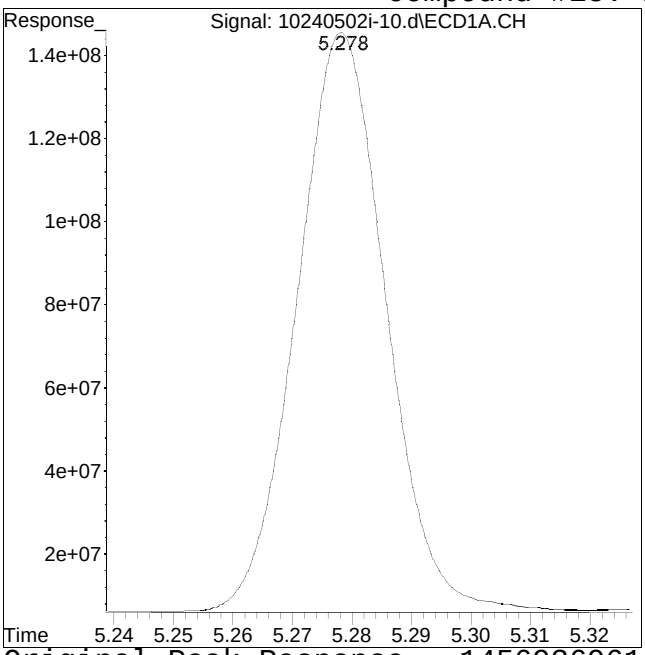
Original Peak Response = 405312000 Manual Peak Response = 405431688 M4
M4 = Poor automated baseline construction.

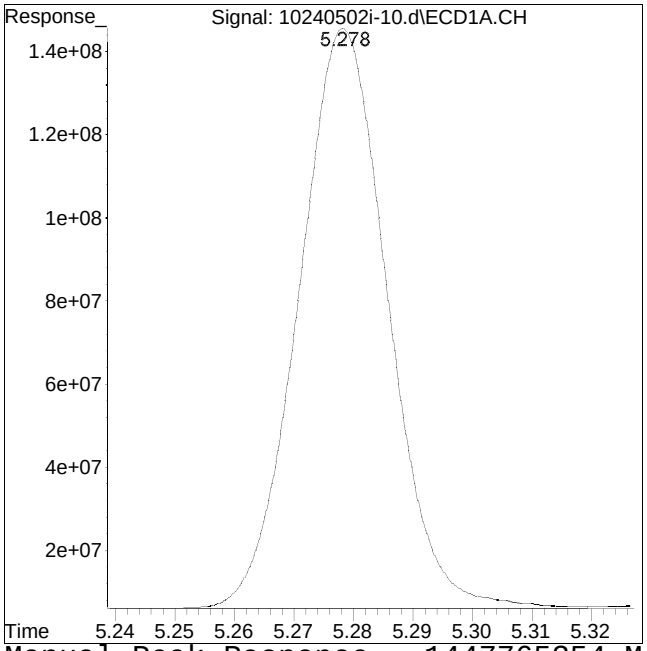
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502Q
Data File : 10240502i-10.d
Date Inj'd : 5/2/2024 5:25 pm
Sample : il9pest,42e,,pp 11399 L0.1

Method : pest10_2024_05_02_ugL_ic
Operator : PEST10:jag
Instrument : Pest 10
Quant Date : 5/7/2024 3:17 pm

Compound #25: Endosulfan Sulfate



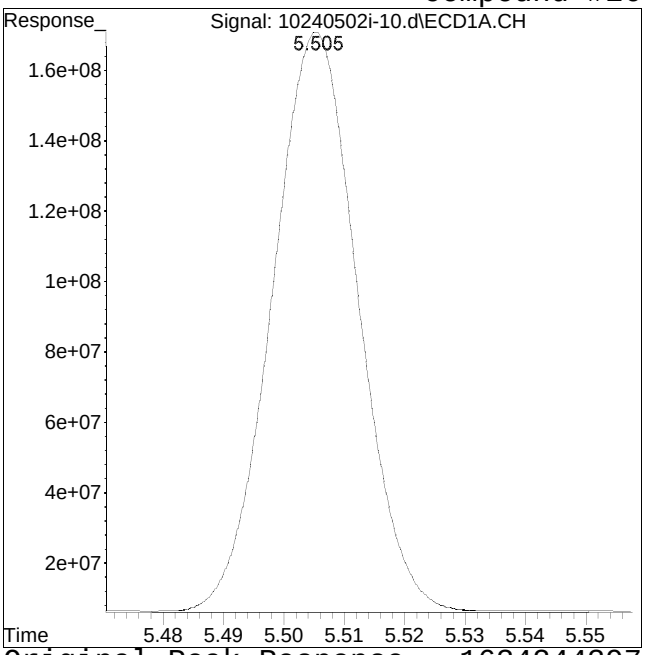


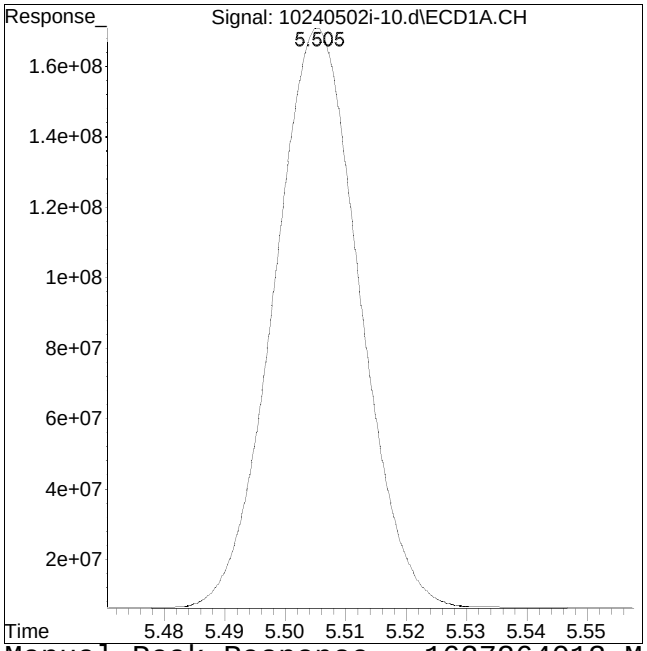
Original Peak Response = 1456936961 Manual Peak Response = 1447765354 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-10.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 5:25 pm Instrument : Pest 10
Sample : il9pest,42e,,pp 11399 L0.1Quant Date : 5/7/2024 3:17 pm

Compound #26: Endrin Ketone



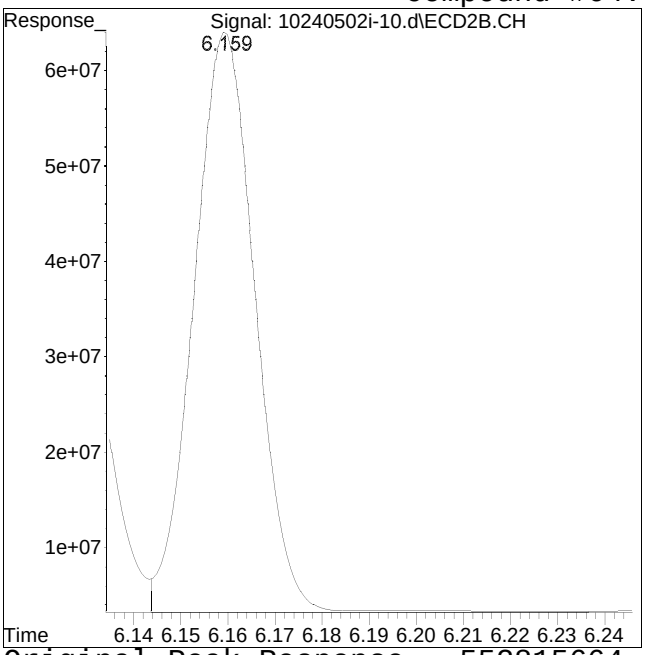


Original Peak Response = 1634244397 Manual Peak Response = 1627264013 M4
M4 = Poor automated baseline construction.

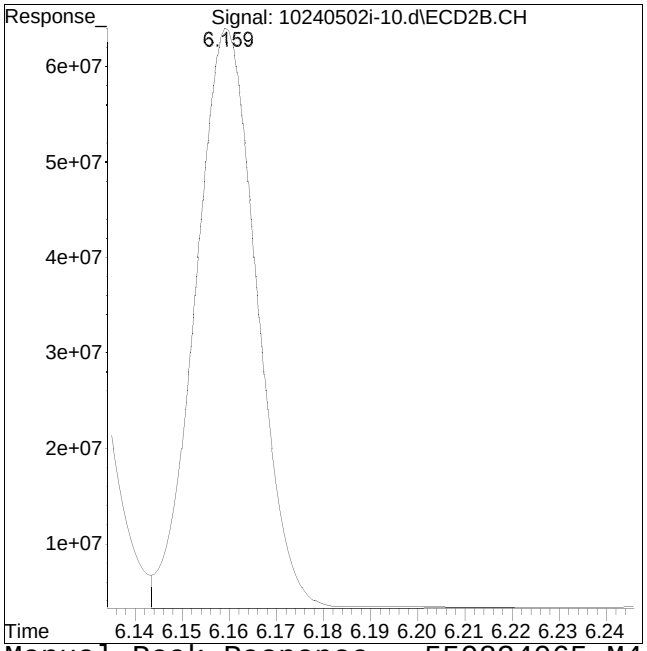
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-10.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 5:25 pm Instrument : Pest 10
Sample : il9pest,42e,,pp 11399 L0.1Quant Date : 5/7/2024 3:17 pm

Compound #64: Endrin Ketone #2



Original Peak Response = 552815664



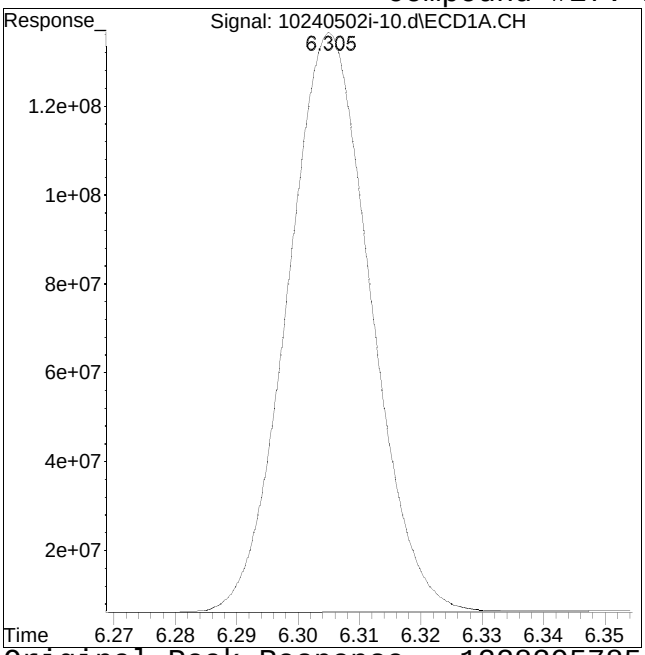
Manual Peak Response = 550834065 M4

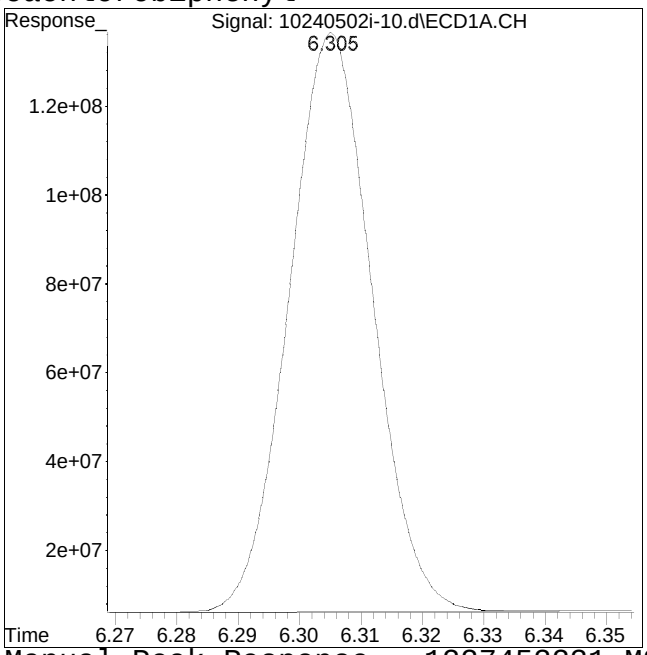
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-10.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 5:25 pm Instrument : Pest 10
Sample : il9pest,42e,,pp 11399 L0.1Quant Date : 5/7/2024 3:17 pm

Compound #27: Decachlorobiphenyl





Original Peak Response = 1228395785 Manual Peak Response = 1227453231 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest10\2024\240502ical\
Data File : 10240502i-11.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 May 2024 5:36 pm
Operator : PEST10:jag
Sample : il10pest,42e,,pp 11398 L0.2
Misc : wg1919460, (Sig #1); ical (Sig #2)
ALS Vial : 11 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 07 15:48:26 2024
Quant Method : I:\PEST\Pest10\2024\240502ical\pest10_2024_05_02_ugL_ical.m
Quant Title : pest
QLast Update : Tue May 07 15:48:11 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	1.318	1.429	402.4E6	145.6E6	25.000	25.000
28) i	1-br-2-nb_Ch	0.000	0.000	0	0	N.D. d	N.D. d
33) i	1-br-2-nb_To	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	1.663	1.921	3176.7E6	1057.2E6	198.983	194.296
	Spiked Amount 50.000	Range 30 - 150		Recovery =		397.97%#	388.59%#
27) s	Decachlorobi	6.306	7.012	2533.7E6	808.3E6	192.804M3	187.051M4
	Spiked Amount 50.000	Range 30 - 150		Recovery =		385.61%#	374.10%#
	Target Compounds						
3) t	Hexachlorobe	1.877	2.251	3360.4E6	1159.0E6	198.692M4	194.586M4
4) t	alpha-BHC	1.977	2.350	5028.0E6	1710.4E6	206.541M4	206.312M4
5) t	gamma-BHC (l	2.180	2.644	4536.8E6	1547.6E6	204.958M3	205.088M4
6) t	beta-BHC	2.235	2.709	1788.9E6	632.4E6	197.455M4	197.258M4
7) t	delta-BHC	2.364	2.984	4663.1E6	1602.9E6	207.527M4	208.881M4
8) t	Heptachlor	2.527	3.053	4066.0E6	1436.7E6	195.593M4	198.683M4
9) t	Aldrin	2.770	3.381	3965.7E6	1373.4E6	199.656M4	203.819M4
10) t	Alachlor	2.892	3.258	474.5E6	179.5E6	171.339M4	178.538M4
11) t	Chlorpyrifos	2.983	3.621	1524.9E6	599.7E6	177.065M4	184.253
12) t	Heptachlor E	3.317	4.011	3544.5E6	1258.1E6	194.199M4	196.924M4

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest10\2024\240502ical\
Data File : 10240502i-11.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 May 2024 5:36 pm
Operator : PEST10:jag
Sample : il10pest,42e,,pp 11398 L0.2
Misc : wg1919460, (Sig #1); ical (Sig #2)
ALS Vial : 11 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 07 15:48:26 2024
Quant Method : I:\PEST\Pest10\2024\240502ical\pest10_2024_05_02_ugL_ical.m
Quant Title : pest
QLast Update : Tue May 07 15:48:11 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

		Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
13)	t	gamma-Chlord	3.440	4.233	3341.5E6	1156.6E6	202.022M4	202.974M4
14)	t	alpha-Chlord	3.575	4.399	3727.5E6	1281.9E6	200.175M4	200.222
15)	t	4,4'-DDE	3.671	4.588	3780.6E6	1292.4E6	201.836	204.981M3
16)	t	Endosulfan I	3.712	4.459	3366.4E6	1181.1E6	193.717M3	196.695
17)	t	Dieldrin	3.973	4.743	3645.8E6	1251.8E6	198.638	201.985M4
18)	t	Endrin	4.228	5.036	3699.9E6	1273.3E6	196.334M4	199.218M4
19)	t	4,4'-DDD	4.336	5.151	3018.2E6	1025.6E6	201.443M4	205.310M3
20)	t	Endosulfan I	4.467	5.230	3099.0E6	1065.5E6	190.824M4	191.850M4
21)	t	4,4'-DDT	4.628	5.426	3322.6E6	1134.1E6	201.249M4	202.158M4
22)	t	Endrin Aldeh	4.885	5.523	2603.6E6	908.3E6	199.924M4	202.453M4
23)	t	Methoxychlor	5.115	5.983	1575.2E6	551.2E6	183.263M4	189.837M4
24)	t	Mirex	5.172	6.127	2533.9E6	828.1E6	192.785M3	188.537M4
25)	t	Endosulfan S	5.279	5.750	2985.7E6	1037.1E6	193.469M4	197.195M4
26)	t	Endrin Keton	5.506	6.160	3321.6E6	1133.3E6	191.723M3	192.857M4
29)	l1	chlordane-1	0.000	0.000	0	0	N.D. d	N.D. d
30)	l1	chlordane-3	0.000	0.000	0	0	N.D. d	N.D. d
31)	l1	chlordane-4	0.000	0.000	0	0	N.D. d	N.D. d
32)	l1	chlordane-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum	chlordane-1			0	0	N.D.	N.D.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest10\2024\240502ical\
Data File : 10240502i-11.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 May 2024 5:36 pm
Operator : PEST10:jag
Sample : il10pest,42e,,pp 11398 L0.2
Misc : wg1919460, (Sig #1); ical (Sig #2)
ALS Vial : 11 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 07 15:48:26 2024
Quant Method : I:\PEST\Pest10\2024\240502ical\pest10_2024_05_02_ugL_ical.m
Quant Title : pest
QLast Update : Tue May 07 15:48:11 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Average	chlordane-1					0.000	0.000
34) l2	toxaphene-1	0.000	0.000	0	0	N.D. d	N.D. d
35) l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
36) l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
37) l2	toxaphene-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

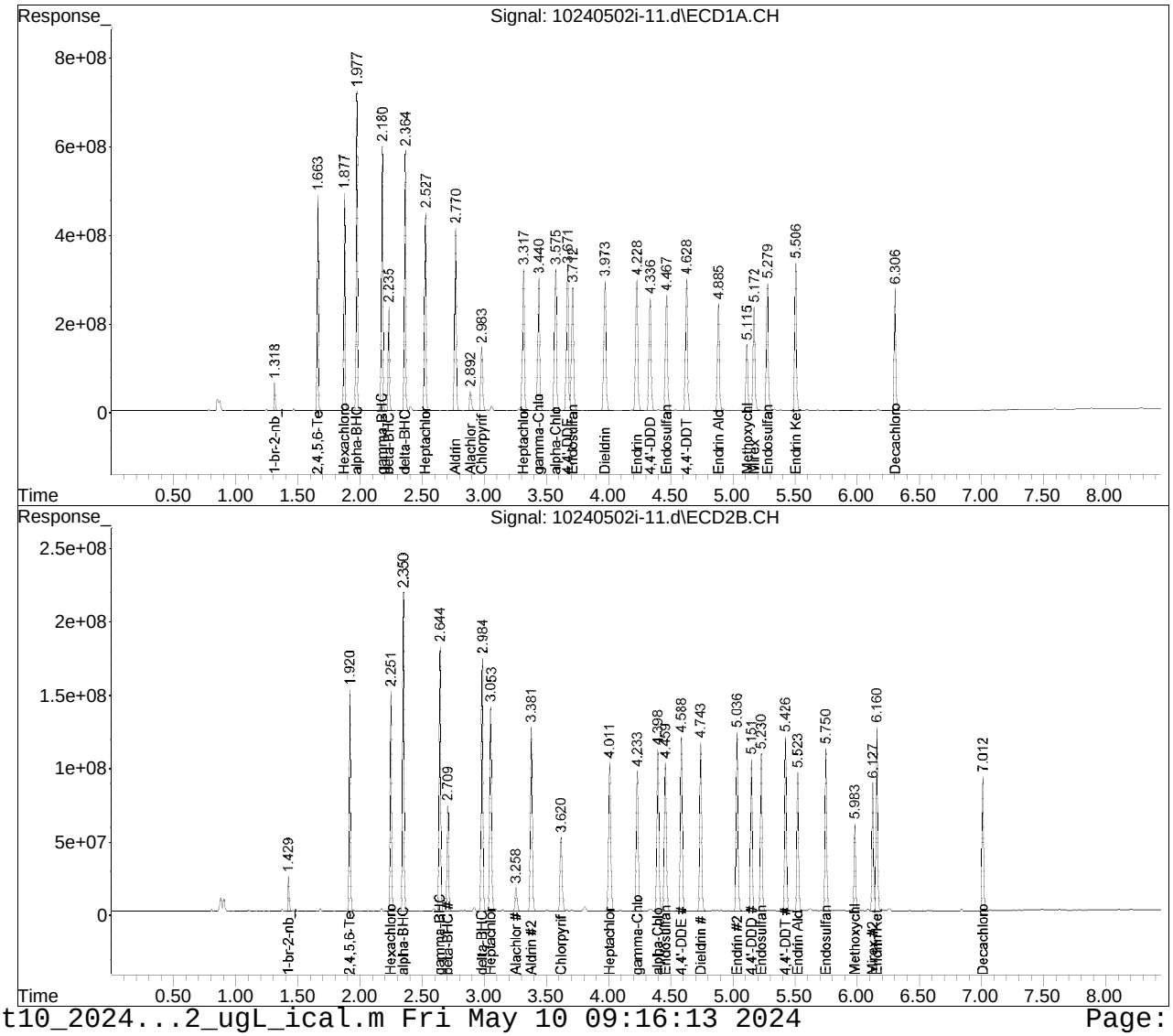
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest10\2024\240502ical\
Data File : 10240502i-11.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 May 2024 5:36 pm
Operator : PEST10:jag
Sample : il10pest,42e,,pp 11398 L0.2
Misc : wg1919460, (Sig #1); ical (Sig #2)
ALS Vial : 11 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 07 15:48:26 2024
Quant Method : I:\PEST\Pest10\2024\240502ical\pest10_2024_05_02_ugL_ical.m
Quant Title : pest
QLast Update : Tue May 07 15:48:11 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

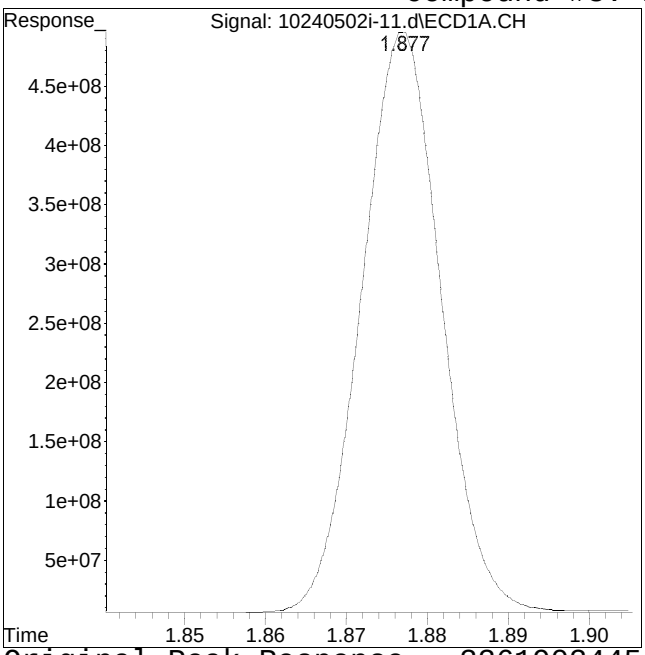
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

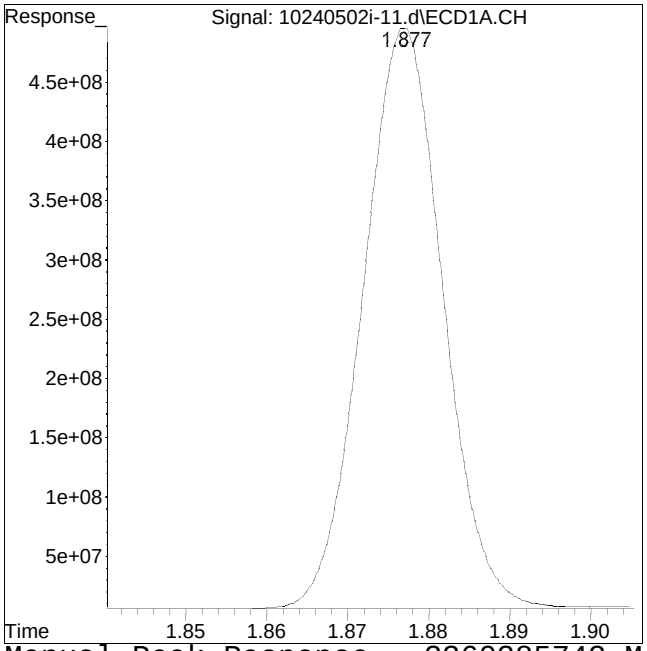


Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-11.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 5:36 pm Instrument : Pest 10
Sample : il10pest,42e,,pp 11398 L0.Quant Date : 5/7/2024 3:48 pm

Compound #3: Hexachlorobenzene



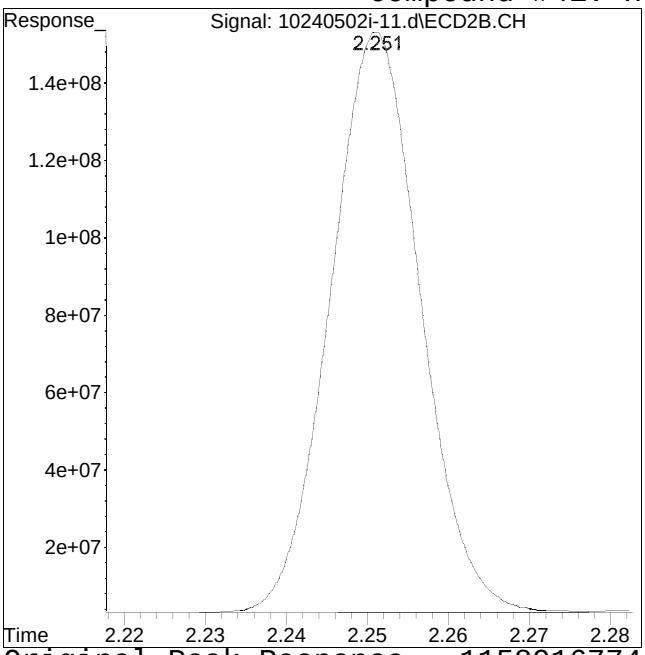


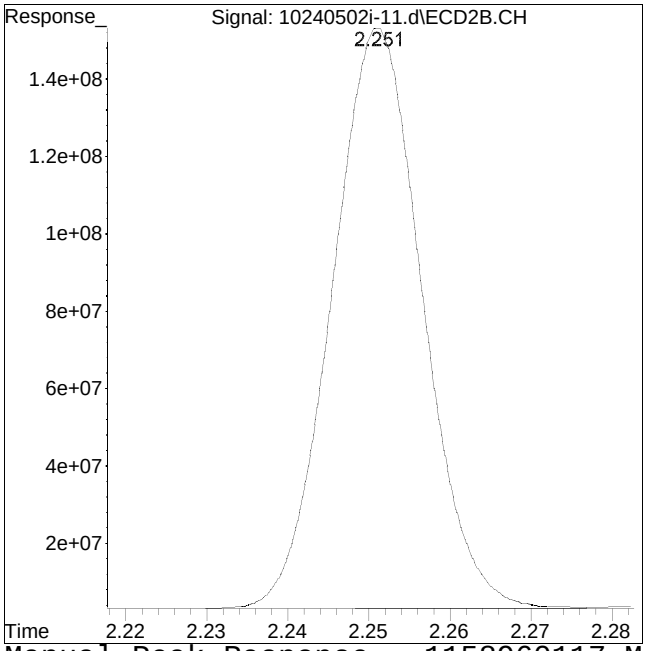
Original Peak Response = 3361903445 Manual Peak Response = 3360385743 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-11.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 5:36 pm Instrument : Pest 10
Sample : il10pest,42e,,pp 11398 L0.Quant Date : 5/7/2024 3:48 pm

Compound #41: Hexachlorobenzene #2



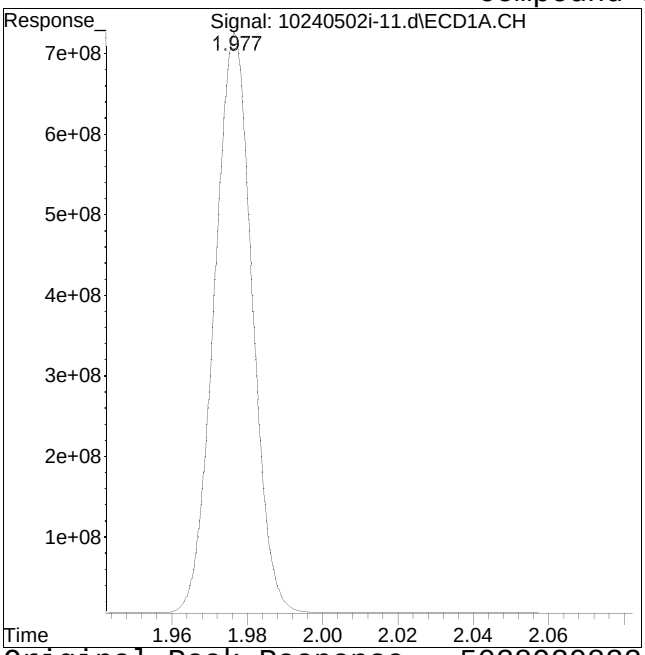


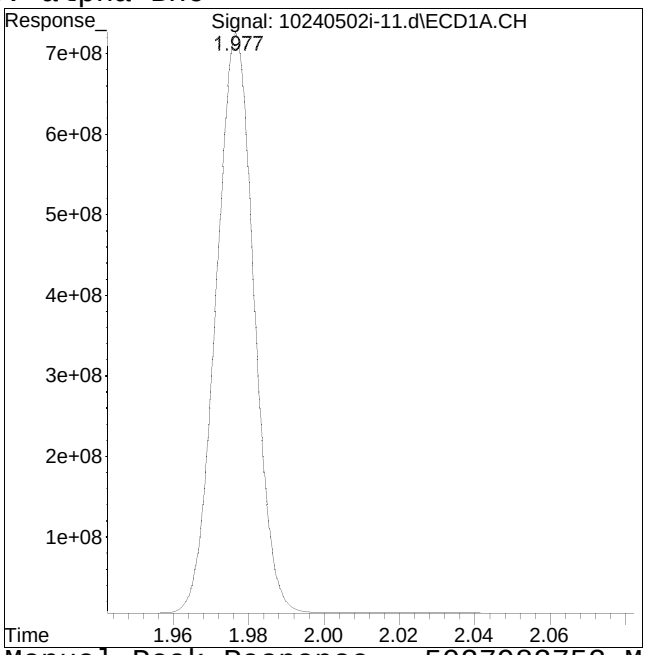
Original Peak Response = 1158916774 Manual Peak Response = 1158960117 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-11.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 5:36 pm Instrument : Pest 10
Sample : il10pest,42e,,pp 11398 L0.Quant Date : 5/7/2024 3:48 pm

Compound #4: alpha-BHC



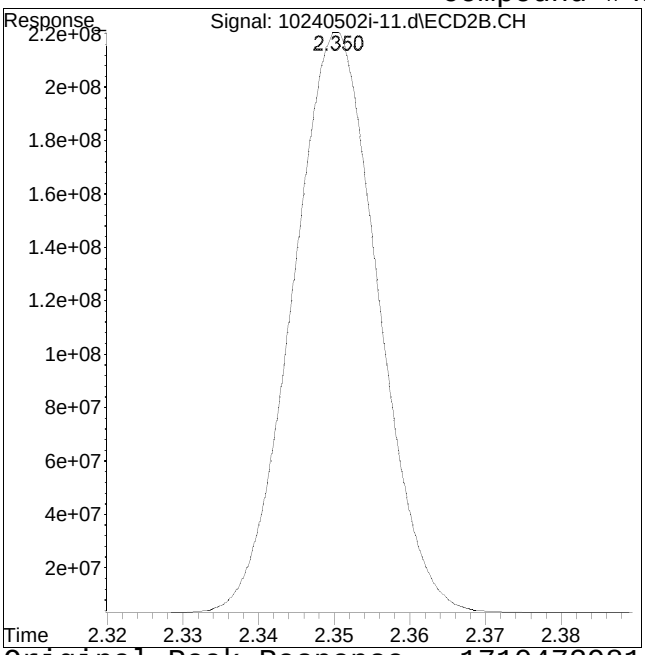


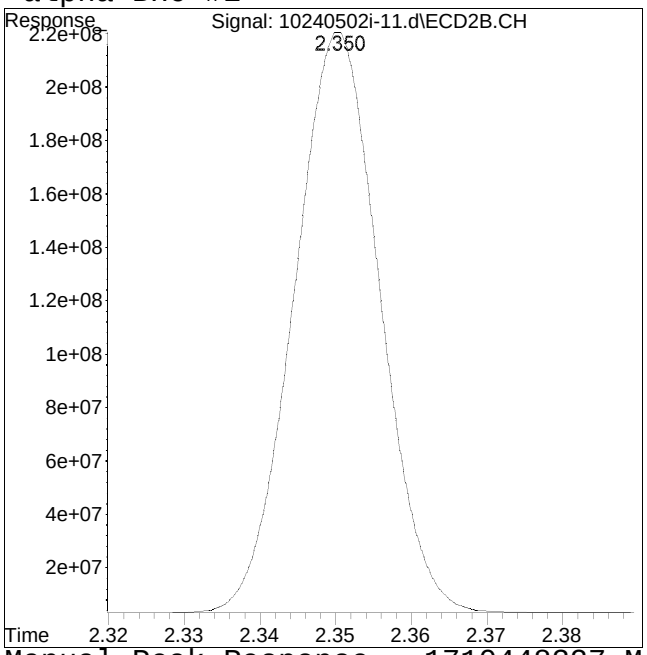
Original Peak Response = 5038929833 Manual Peak Response = 5027983752 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-11.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 5:36 pm Instrument : Pest 10
Sample : il10pest,42e,,pp 11398 L0.Quant Date : 5/7/2024 3:48 pm

Compound #42: alpha-BHC #2



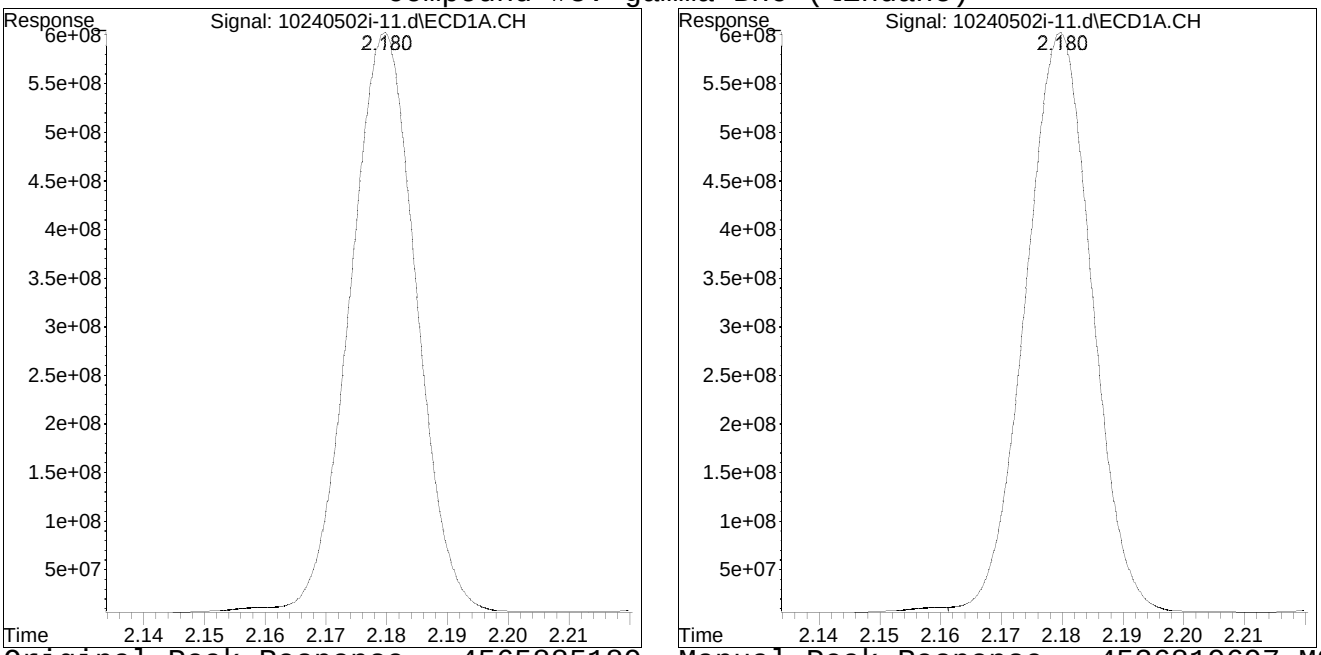


Original Peak Response = 1710473981 Manual Peak Response = 1710448327 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-11.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 5:36 pm Instrument : Pest 10
Sample : il10pest,42e,,pp 11398 L0.Quant Date : 5/7/2024 3:48 pm

Compound #5: gamma-BHC (lindane)

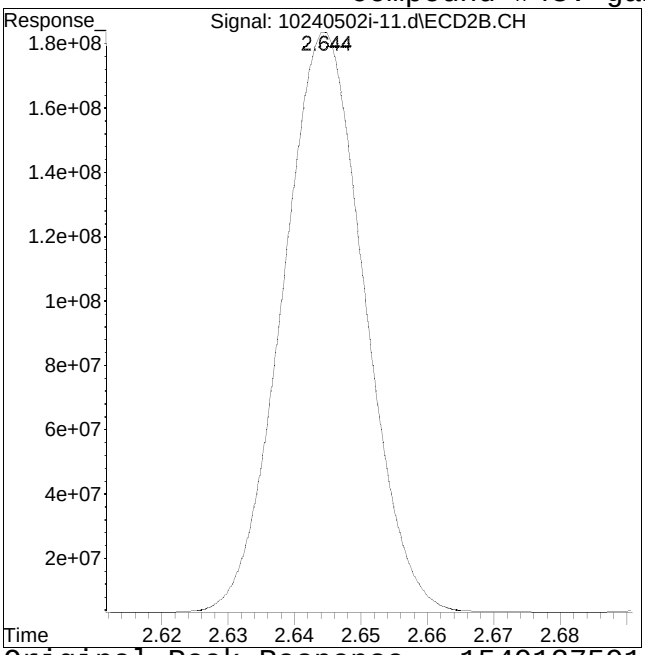


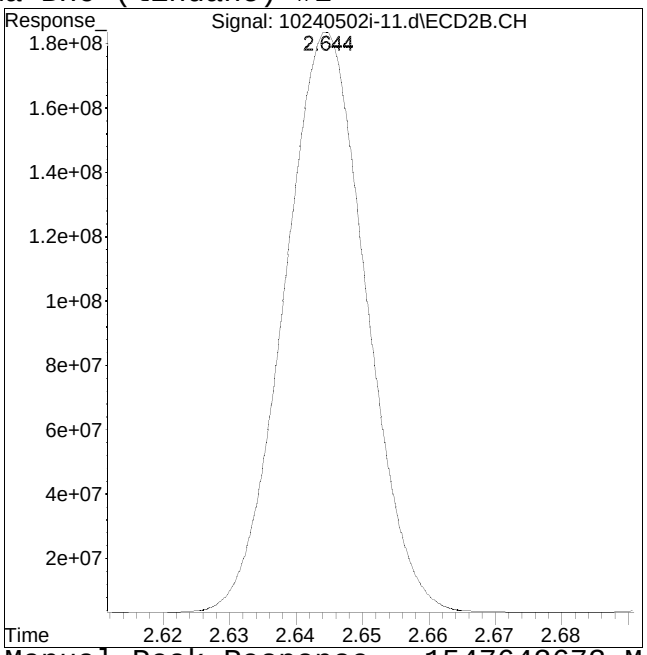
Original Peak Response = 4565885189 Manual Peak Response = 4536819697 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-11.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 5:36 pm Instrument : Pest 10
Sample : il10pest,42e,,pp 11398 L0.Quant Date : 5/7/2024 3:48 pm

Compound #43: gamma-BHC (lindane) #2



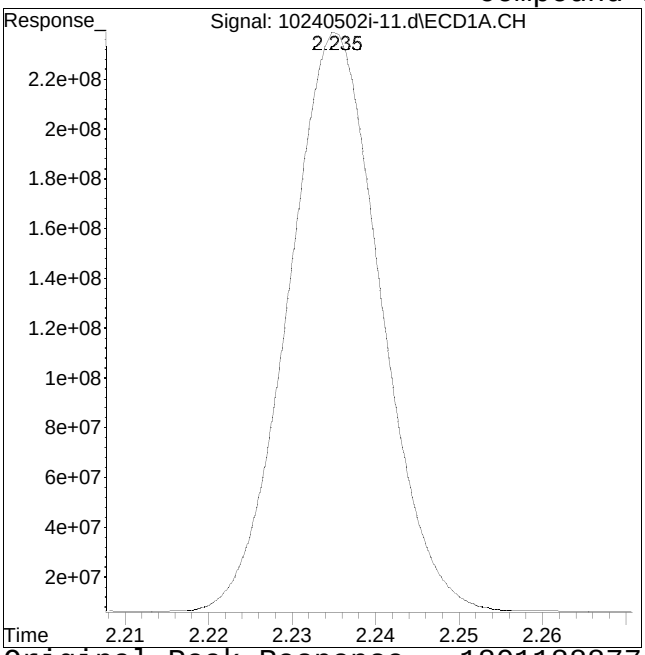


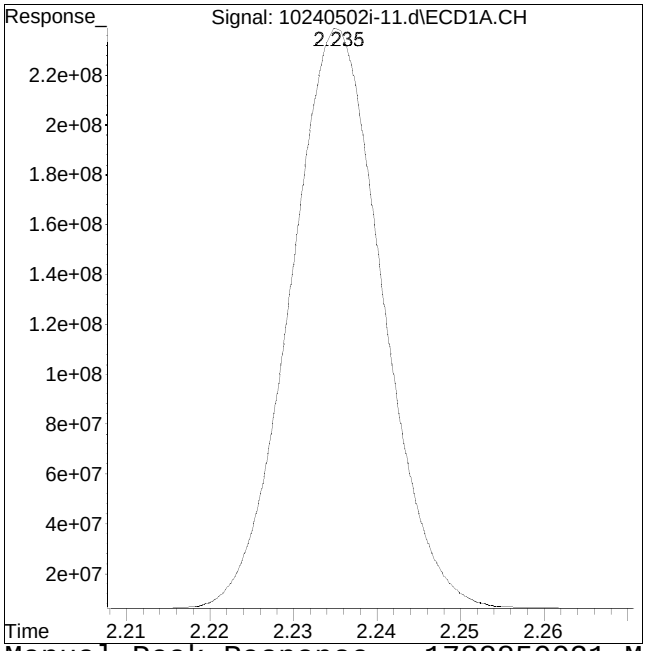
Original Peak Response = 1549127591 Manual Peak Response = 1547643673 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-11.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 5:36 pm Instrument : Pest 10
Sample : il10pest,42e,,pp 11398 L0.Quant Date : 5/7/2024 3:48 pm

Compound #6: beta-BHC



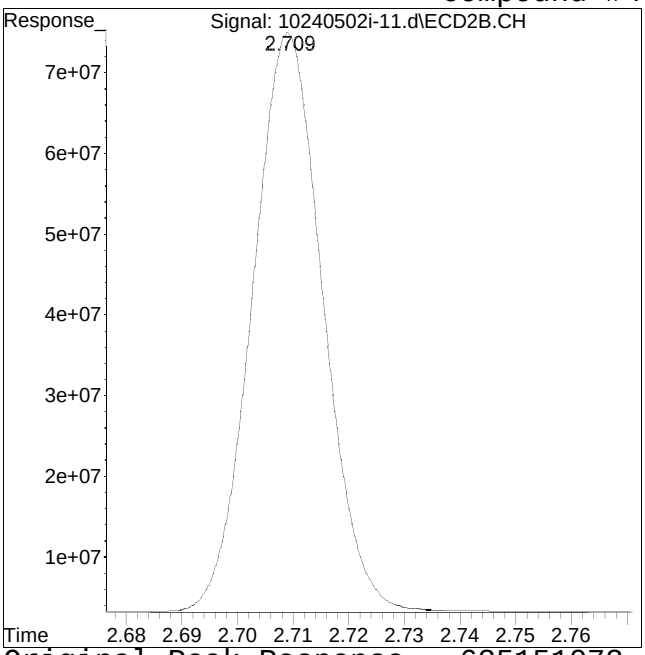


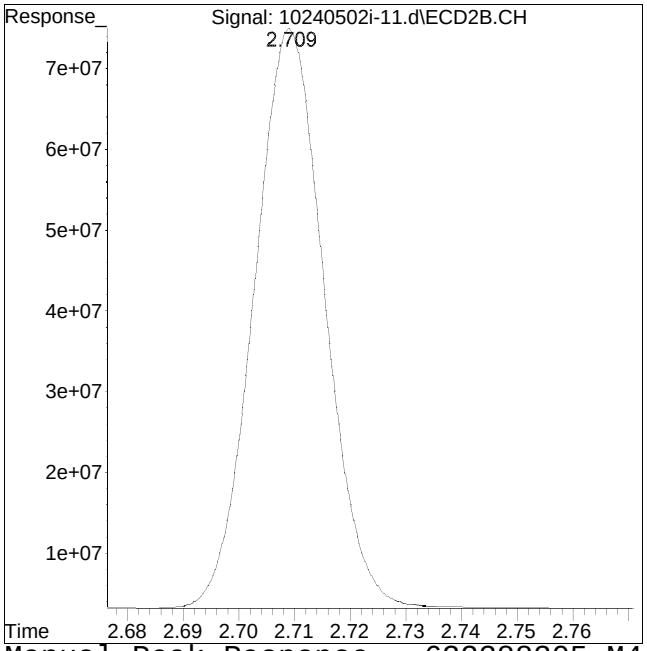
Original Peak Response = 1801188877 Manual Peak Response = 1788850031 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-11.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 5:36 pm Instrument : Pest 10
Sample : il10pest,42e,,pp 11398 L0.Quant Date : 5/7/2024 3:48 pm

Compound #44: beta-BHC #2



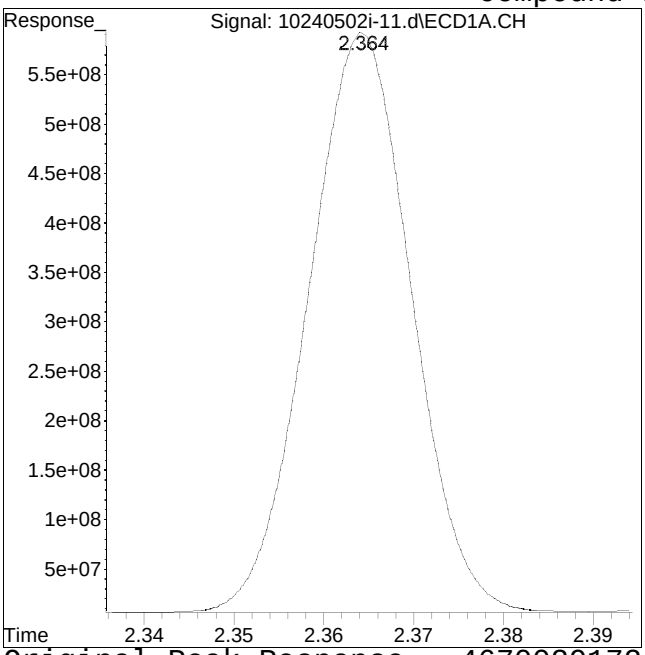


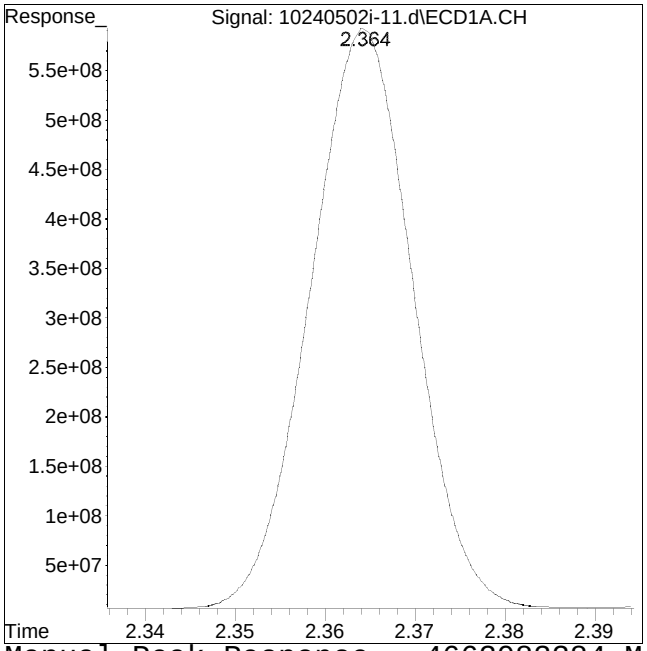
Original Peak Response = 635151073 Manual Peak Response = 632388305 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-11.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 5:36 pm Instrument : Pest 10
Sample : il10pest,42e,,pp 11398 L0.Quant Date : 5/7/2024 3:48 pm

Compound #7: delta-BHC



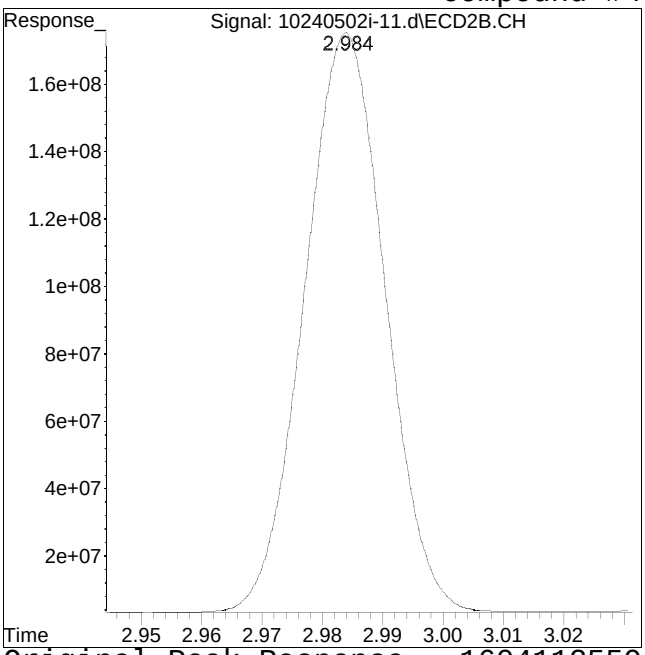


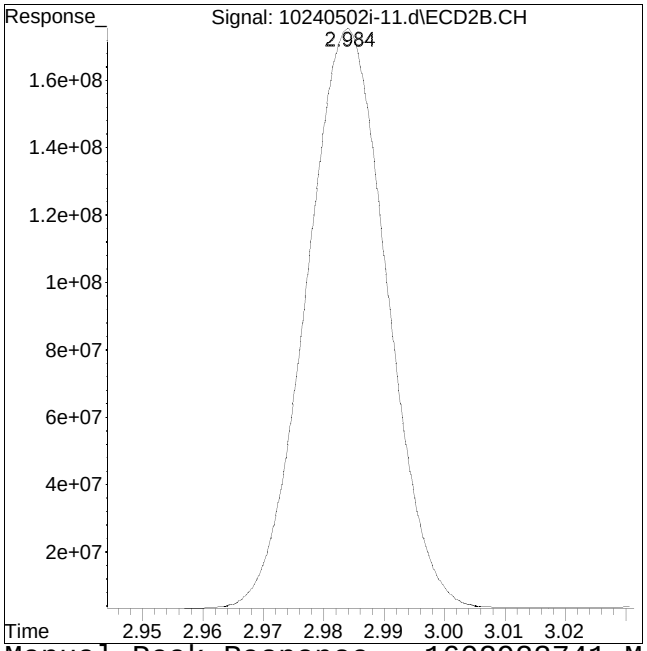
Original Peak Response = 4670029172 Manual Peak Response = 4663083384 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-11.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 5:36 pm Instrument : Pest 10
Sample : il10pest,42e,,pp 11398 L0.Quant Date : 5/7/2024 3:48 pm

Compound #45: delta-BHC #2



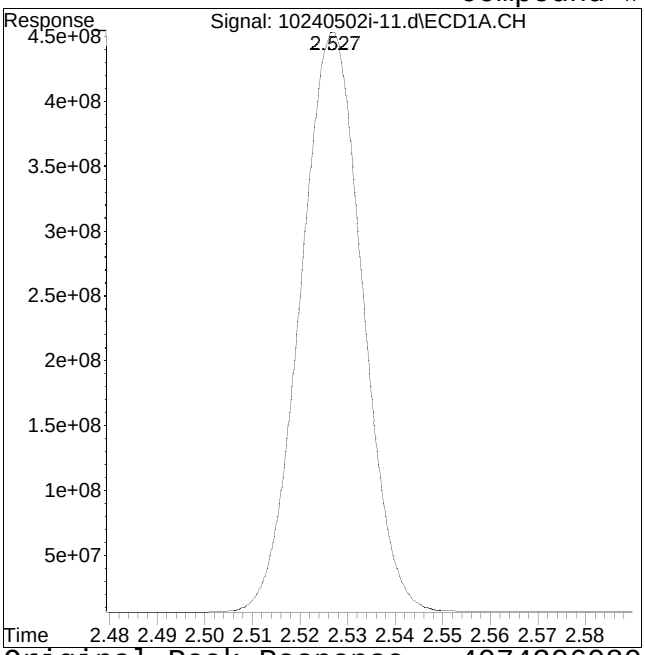


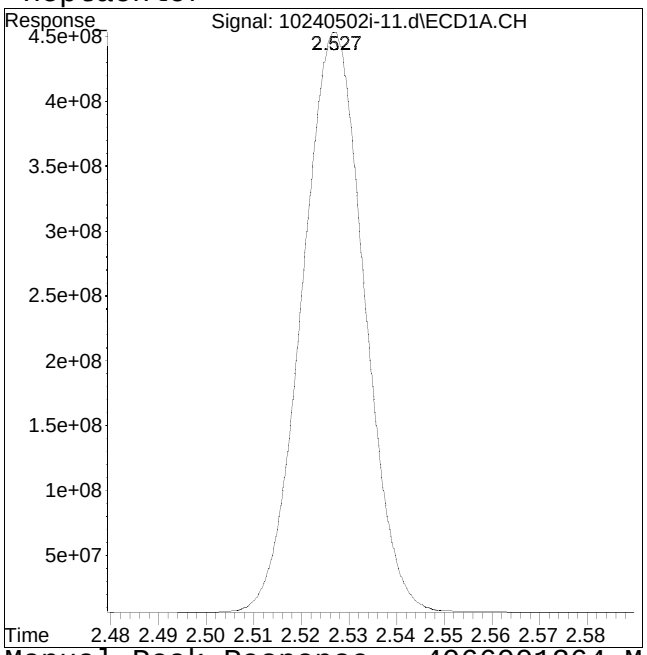
Original Peak Response = 1604112559 Manual Peak Response = 1602923741 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-11.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 5:36 pm Instrument : Pest 10
Sample : il10pest,42e,,pp 11398 L0.Quant Date : 5/7/2024 3:48 pm

Compound #8: Heptachlor





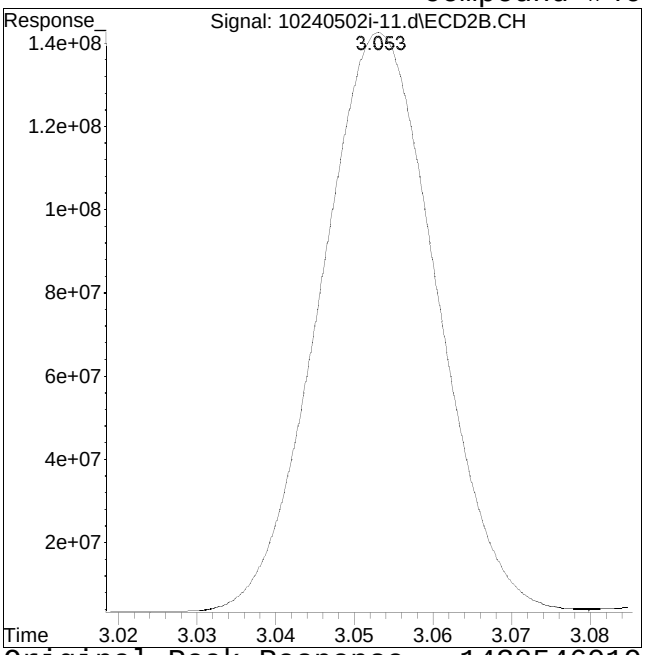
Original Peak Response = 4074306080 Manual Peak Response = 4066001264 M4
M4 = Poor automated baseline construction.

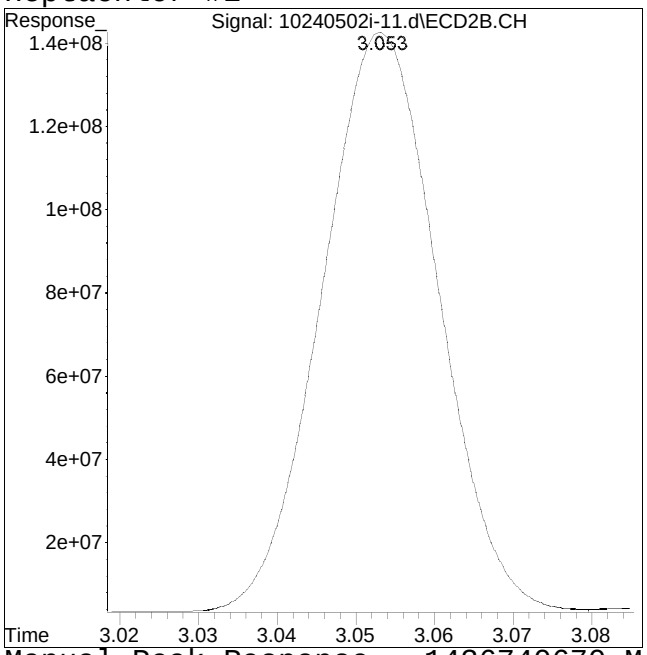
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502Q
Data File : 10240502i-11.d
Date Inj'd : 5/2/2024 5:36 pm
Sample : il10pest,42e,,pp 11398 L0.

Method : pest10_2024_05_02_ugL_ic
Operator : PEST10:jag
Instrument : Pest 10
Quant Date : 5/7/2024 3:48 pm

Compound #46: Heptachlor #2



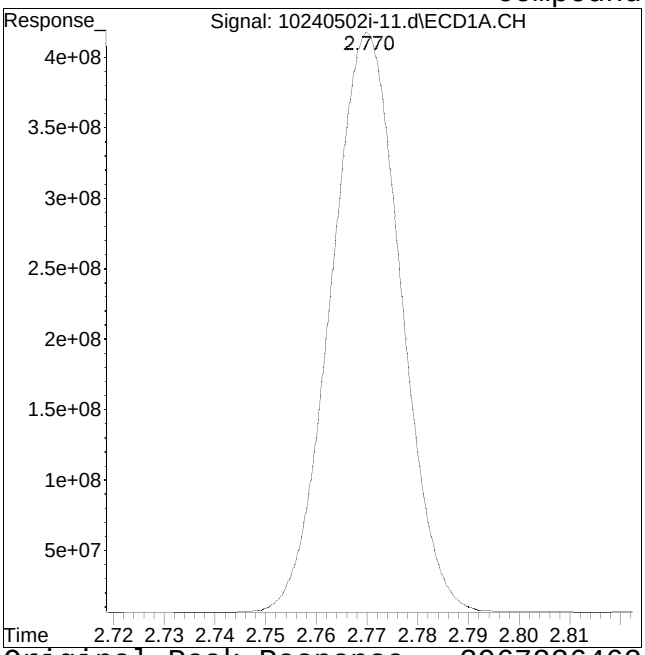


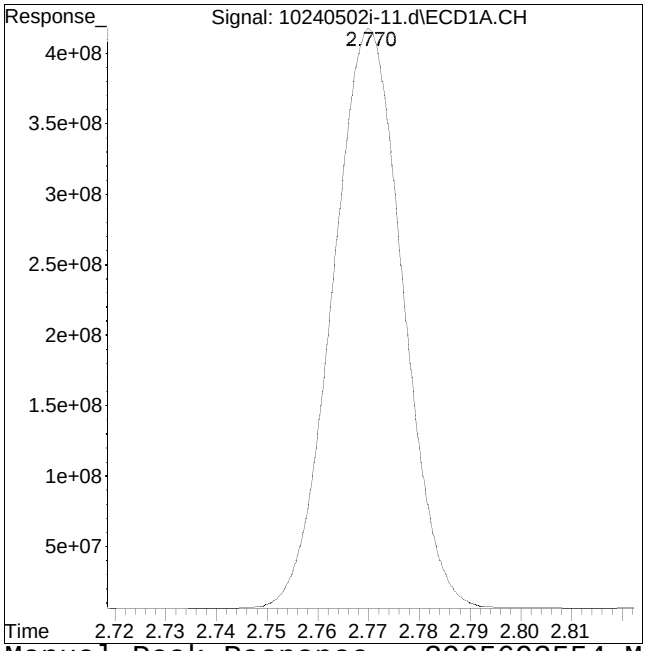
Original Peak Response = 1438546019 Manual Peak Response = 1436740670 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-11.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 5:36 pm Instrument : Pest 10
Sample : il10pest,42e,,pp 11398 L0.Quant Date : 5/7/2024 3:48 pm

Compound #9: Aldrin



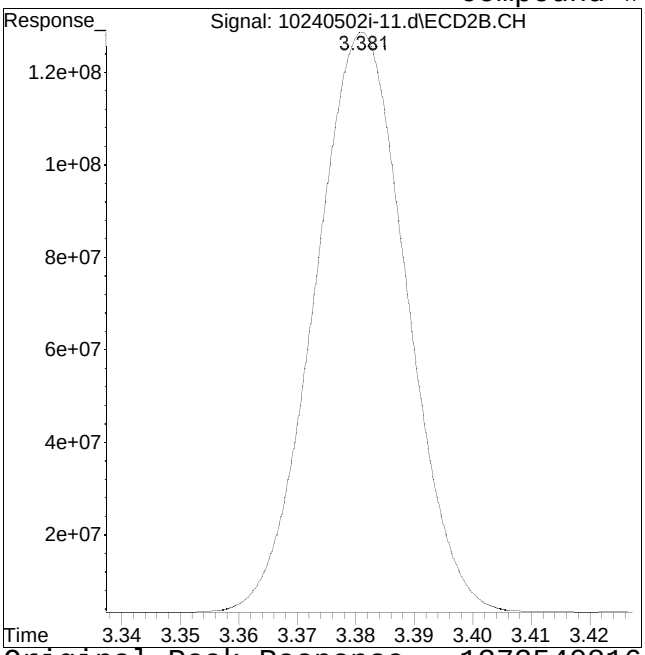


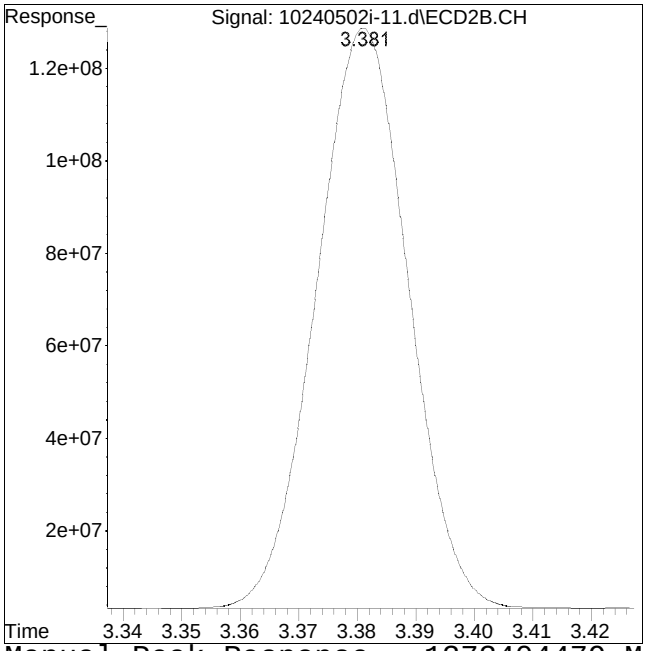
Original Peak Response = 3967226462 Manual Peak Response = 3965693554 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-11.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 5:36 pm Instrument : Pest 10
Sample : il10pest,42e,,pp 11398 L0.Quant Date : 5/7/2024 3:48 pm

Compound #47: Aldrin #2



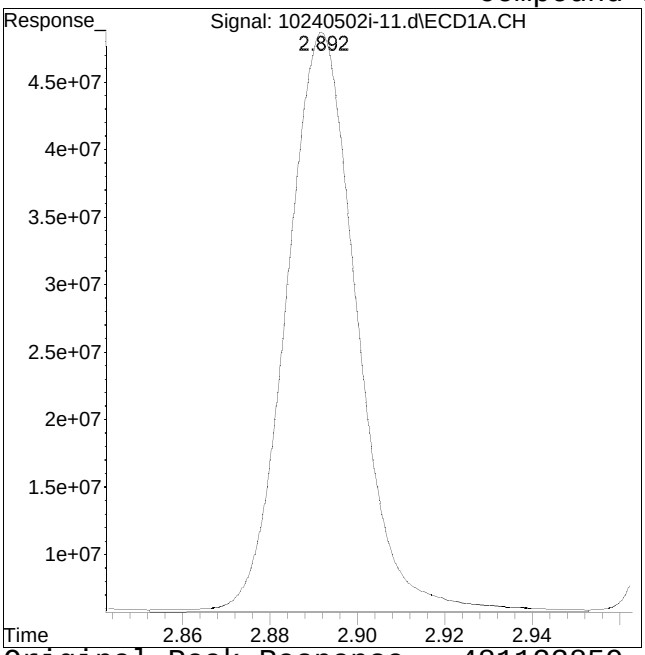


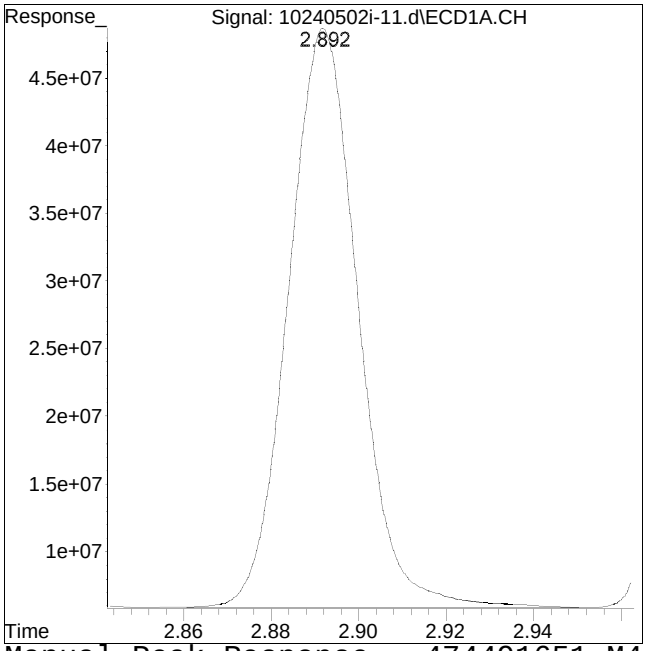
Original Peak Response = 1373540816 Manual Peak Response = 1373404479 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-11.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 5:36 pm Instrument : Pest 10
Sample : il10pest,42e,,pp 11398 L0.Quant Date : 5/7/2024 3:48 pm

Compound #10: Alachlor





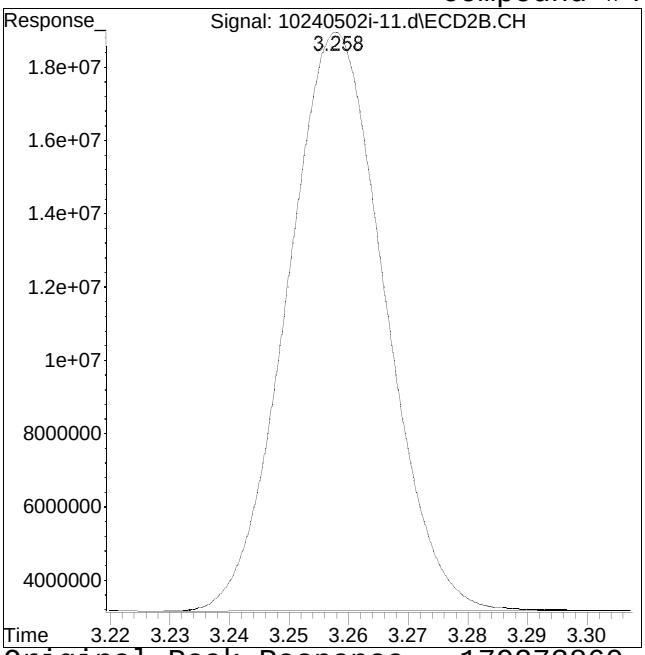
Original Peak Response = 481123859 Manual Peak Response = 474491651 M4
M4 = Poor automated baseline construction.

Manual Integration Report

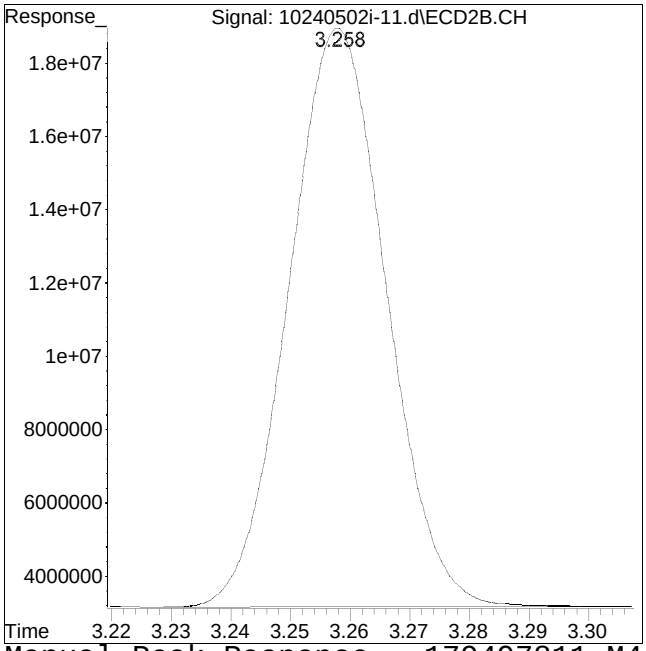
Data Path : I:\PEST\Pest10\2024\240502Q
Data File : 10240502i-11.d
Date Inj'd : 5/2/2024 5:36 pm
Sample : il10pest,42e,,pp 11398 L0.

Method : pest10_2024_05_02_ugL_ic
Operator : PEST10:jag
Instrument : Pest 10
Quant Date : 5/7/2024 3:48 pm

Compound #48: Alachlor #2



Original Peak Response = 179273860



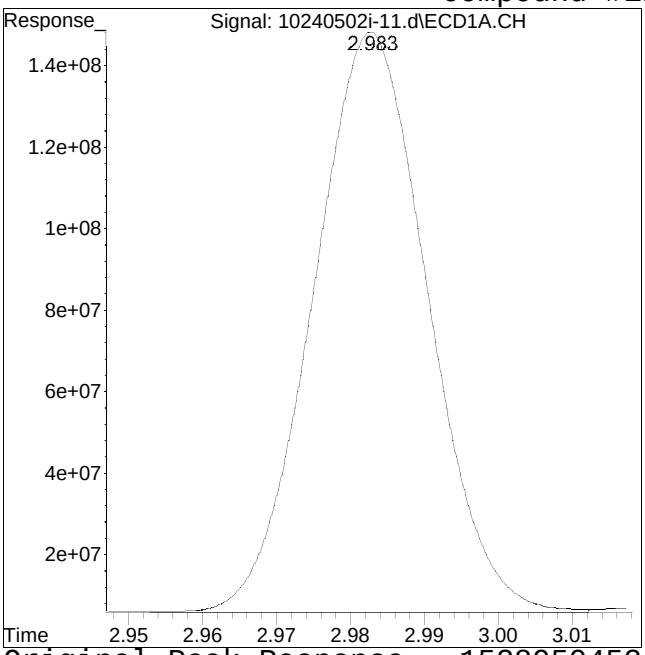
Manual Peak Response = 179497811 M4

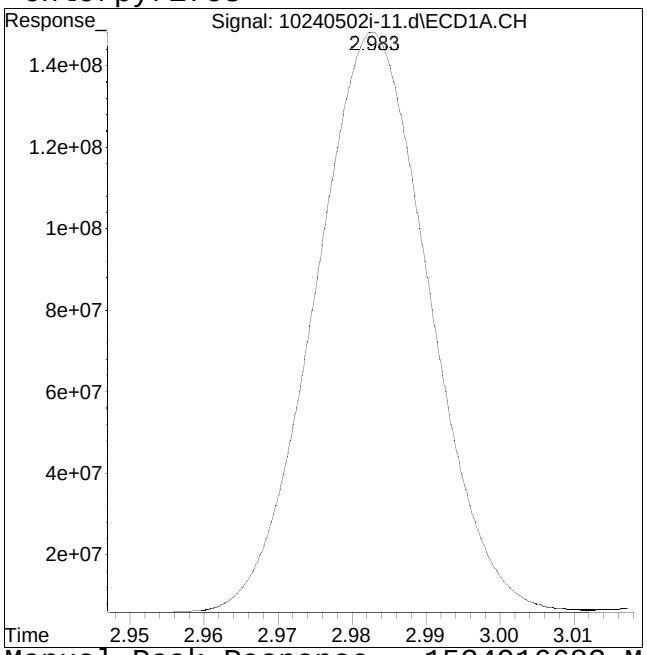
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-11.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 5:36 pm Instrument : Pest 10
Sample : il10pest,42e,,pp 11398 L0.Quant Date : 5/7/2024 3:48 pm

Compound #11: Chlorpyrifos



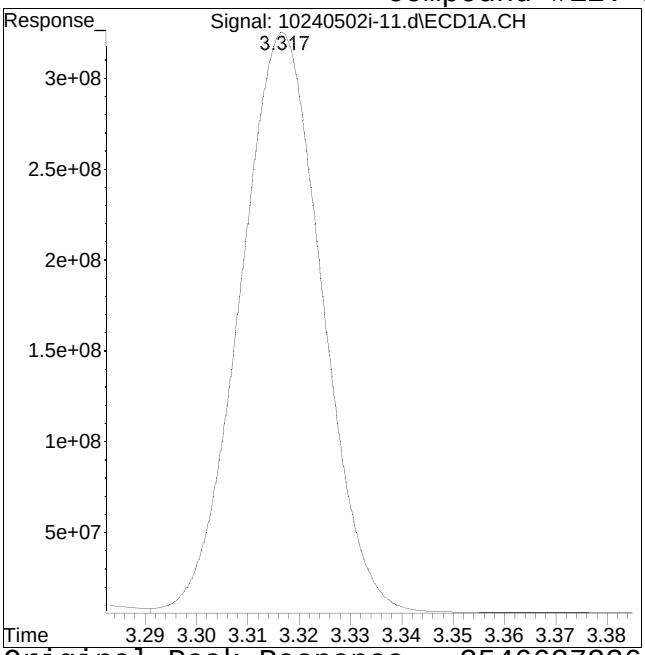


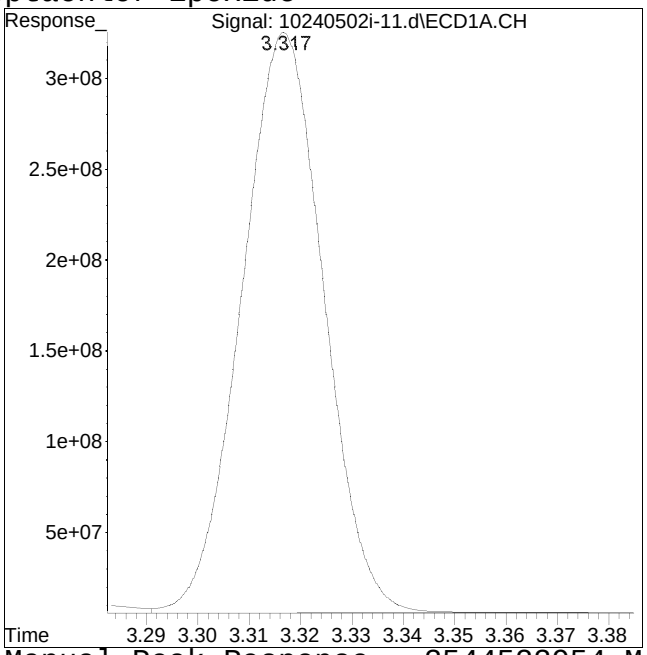
Original Peak Response = 1528959453 Manual Peak Response = 1524916683 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502Q
Data File : 10240502i-11.d
Date Inj'd : 5/2/2024 5:36 pm
Sample : il10pest,42e,,pp 11398 L0.
Method : pest10_2024_05_02_ugL_ic
Operator : PEST10:jag
Instrument : Pest 10
Quant Date : 5/7/2024 3:48 pm

Compound #12: Heptachlor Epoxide





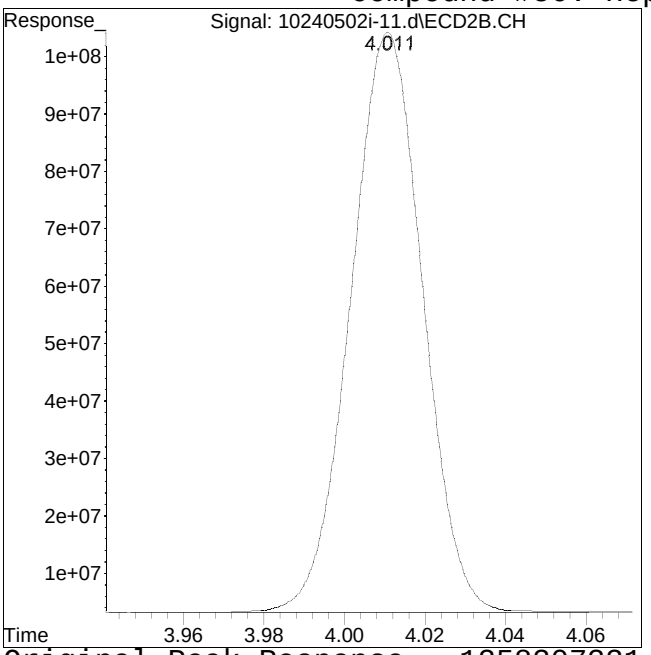
Original Peak Response = 3546637336 Manual Peak Response = 3544523954 M4
M4 = Poor automated baseline construction.

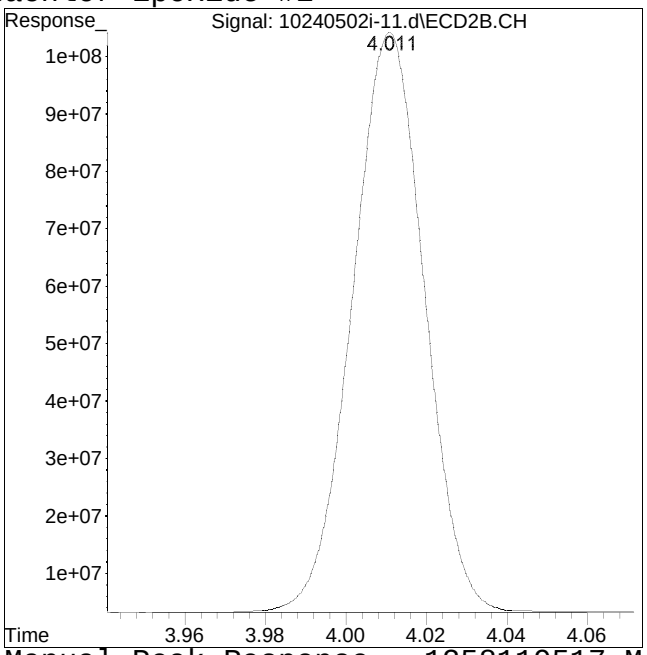
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502Q
Data File : 10240502i-11.d
Date Inj'd : 5/2/2024 5:36 pm
Sample : il10pest,42e,,pp 11398 L0.

Method : pest10_2024_05_02_ugL_ic
Operator : PEST10:jag
Instrument : Pest 10
Quant Date : 5/7/2024 3:48 pm

Compound #50: Heptachlor Epoxide #2





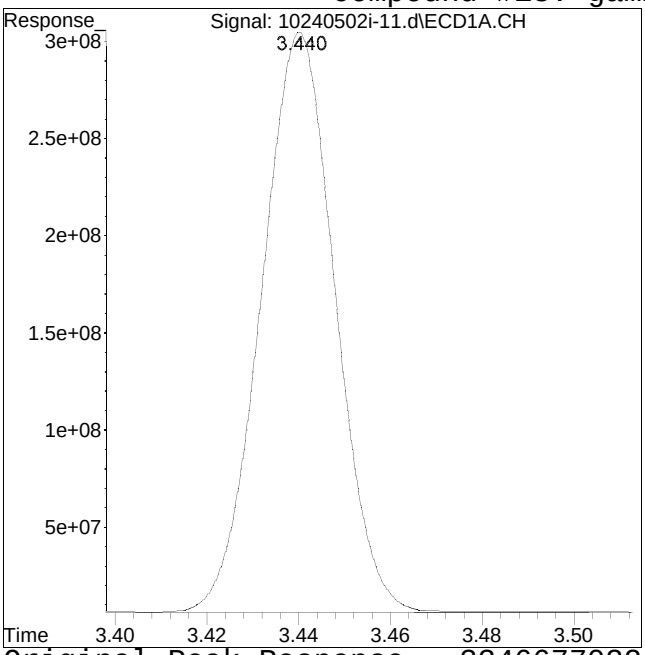
Original Peak Response = 1258307331 Manual Peak Response = 1258119517 M4
M4 = Poor automated baseline construction.

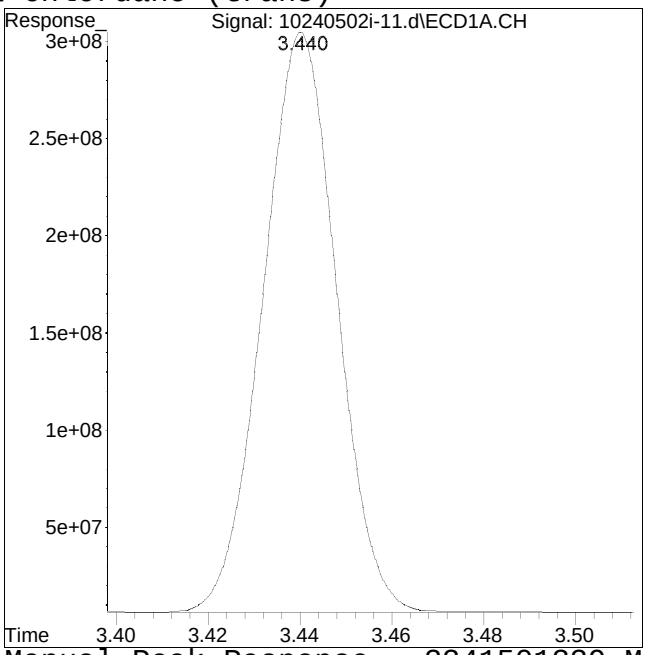
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502Q
Data File : 10240502i-11.d
Date Inj'd : 5/2/2024 5:36 pm
Sample : il10pest,42e,,pp 11398 L0.

Method : pest10_2024_05_02_ugL_ic
Operator : PEST10:jag
Instrument : Pest 10
Quant Date : 5/7/2024 3:48 pm

Compound #13: gamma-Chlordane (trans)





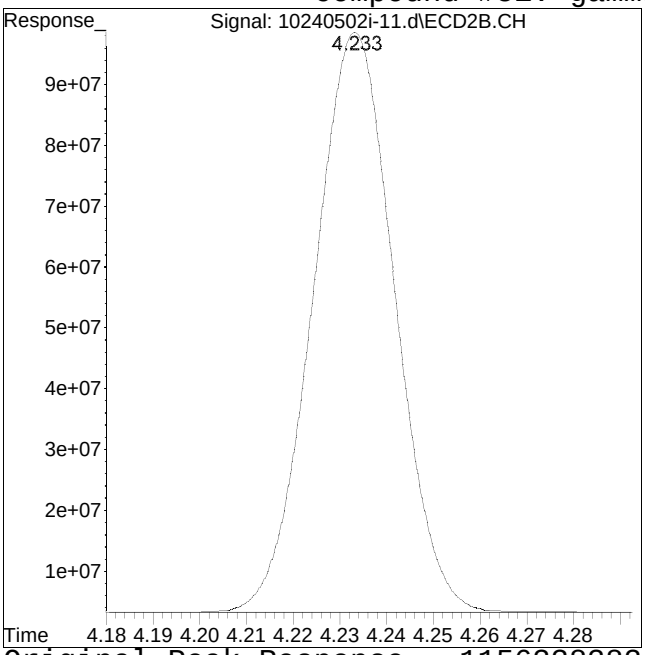
Original Peak Response = 3346677032 Manual Peak Response = 3341501339 M4
M4 = Poor automated baseline construction.

Manual Integration Report

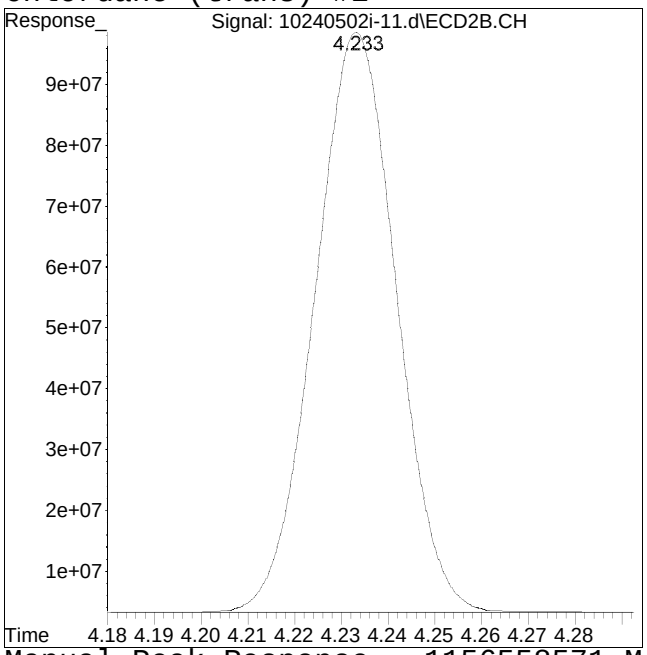
Data Path : I:\PEST\Pest10\2024\240502Q
Data File : 10240502i-11.d
Date Inj'd : 5/2/2024 5:36 pm
Sample : il10pest,42e,,pp 11398 L0.

Method : pest10_2024_05_02_ugL_ic
Operator : PEST10:jag
Instrument : Pest 10
Quant Date : 5/7/2024 3:48 pm

Compound #51: gamma-Chlordane (trans) #2



Original Peak Response = 1156338383



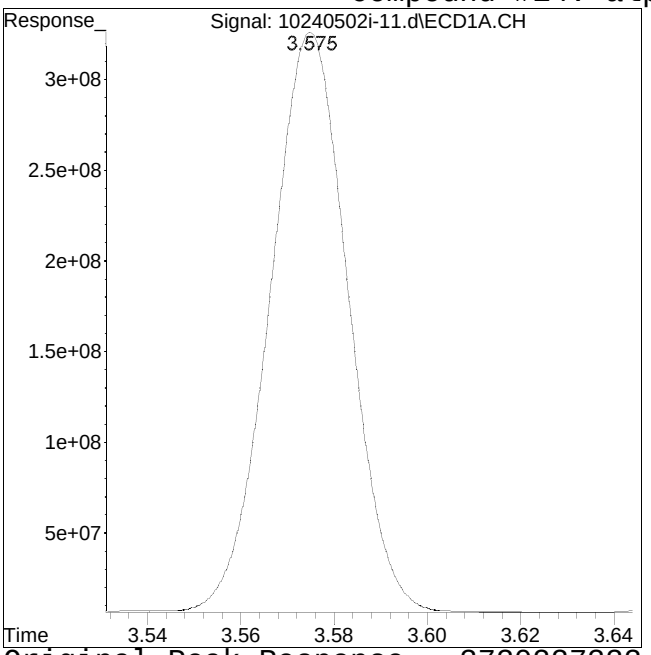
Manual Peak Response = 1156558571 M4

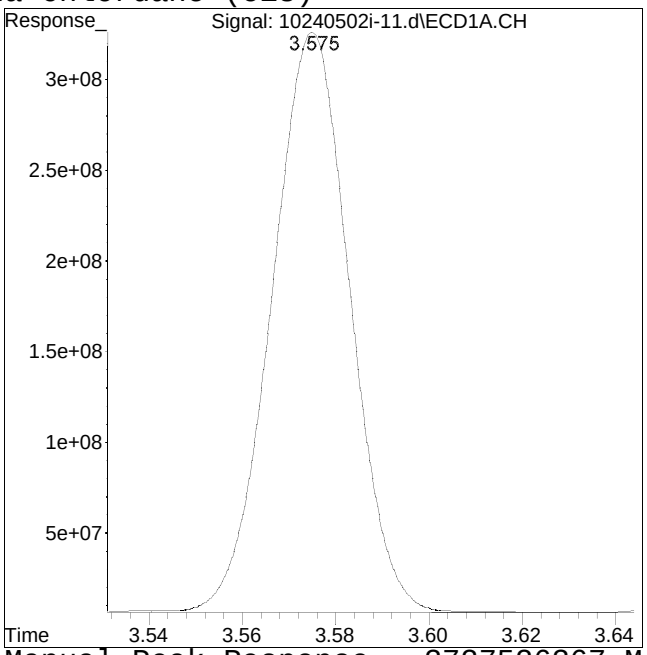
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502Q
Data File : 10240502i-11.d
Date Inj'd : 5/2/2024 5:36 pm
Sample : il10pest,42e,,pp 11398 L0.
Method : pest10_2024_05_02_ugL_ic
Operator : PEST10:jag
Instrument : Pest 10
Quant Date : 5/7/2024 3:48 pm

Compound #14: alpha-Chlordane (cis)



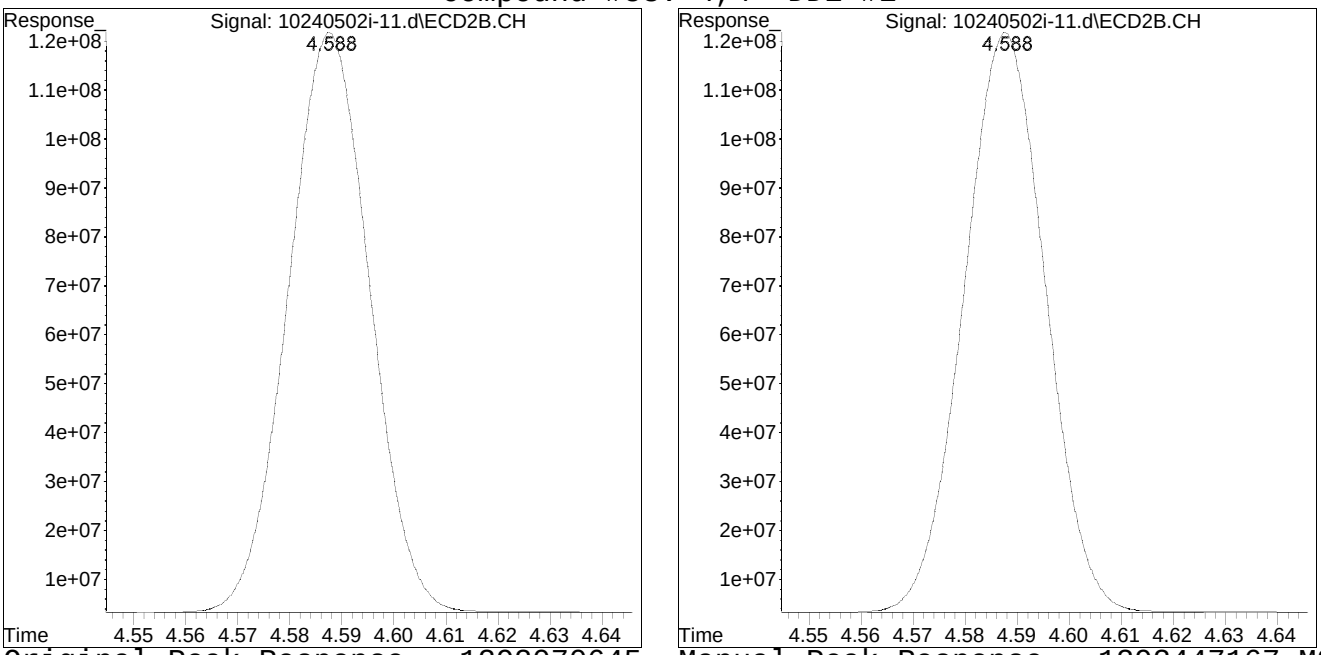


Original Peak Response = 3730227333 Manual Peak Response = 3727526367 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-11.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 5:36 pm Instrument : Pest 10
Sample : il10pest,42e,,pp 11398 L0.Quant Date : 5/7/2024 3:48 pm

Compound #53: 4,4'-DDE #2

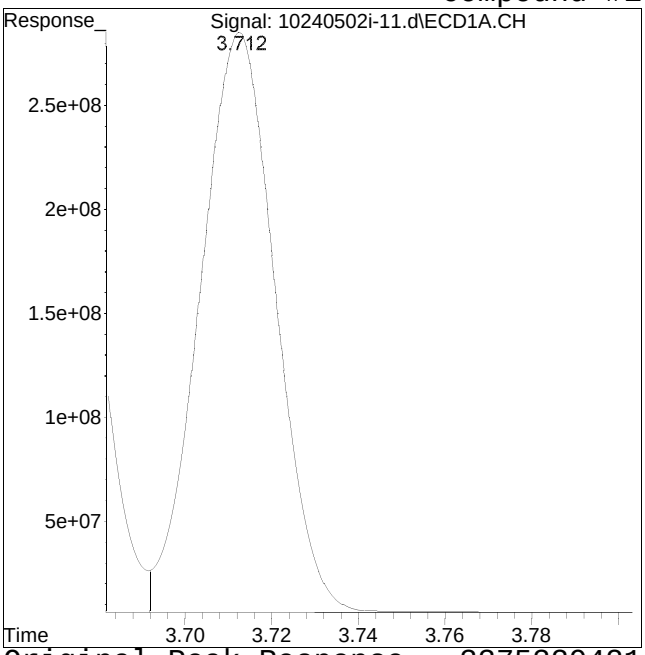


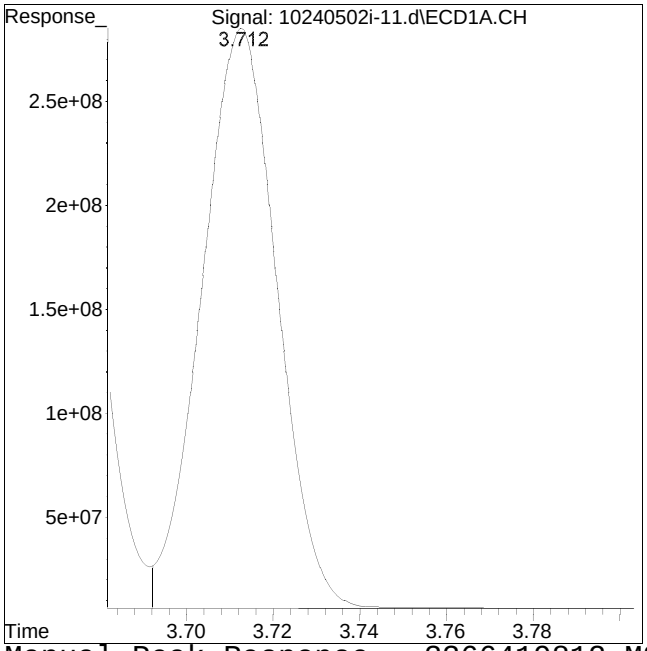
Original Peak Response = 1292070645 Manual Peak Response = 1292447167 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-11.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 5:36 pm Instrument : Pest 10
Sample : il10pest,42e,,pp 11398 L0.Quant Date : 5/7/2024 3:48 pm

Compound #16: Endosulfan I



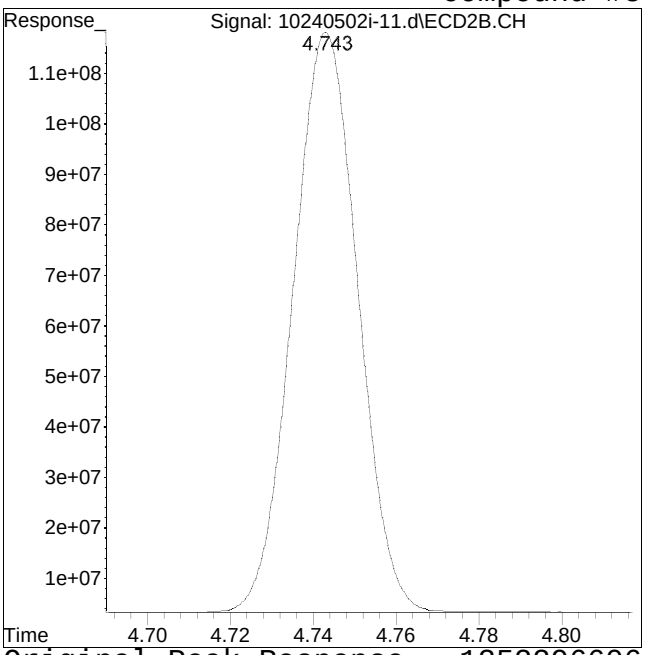


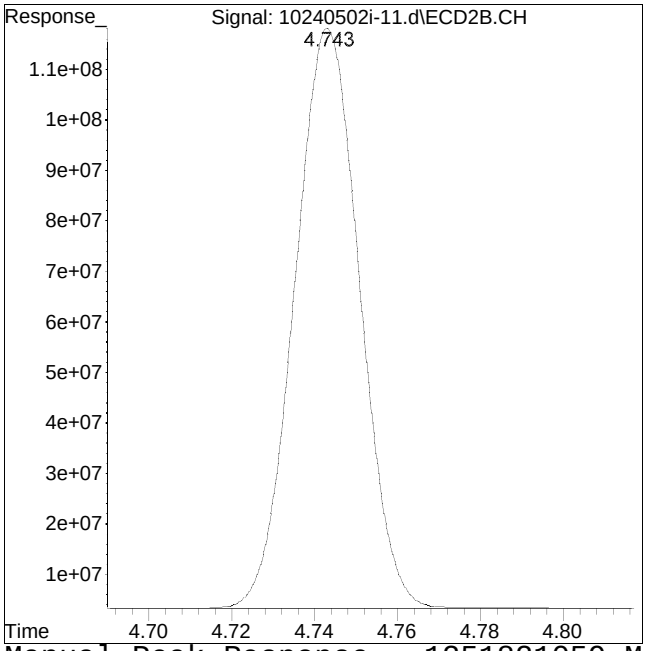
Original Peak Response = 3375329421 Manual Peak Response = 3366419812 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-11.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 5:36 pm Instrument : Pest 10
Sample : il10pest,42e,,pp 11398 L0.Quant Date : 5/7/2024 3:48 pm

Compound #55: Dieldrin #2



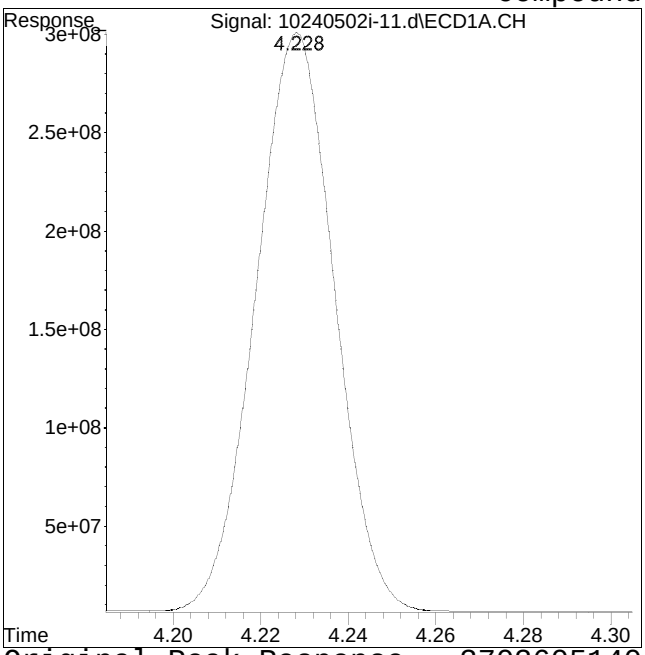


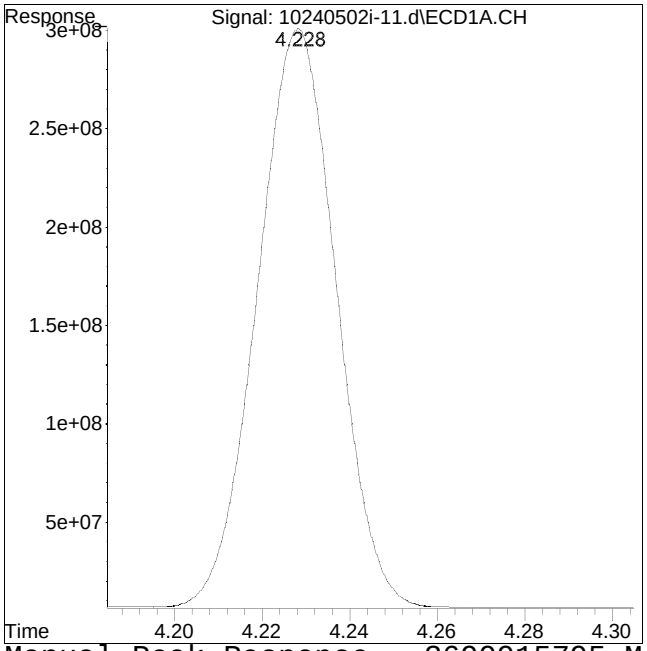
Original Peak Response = 1252296606 Manual Peak Response = 1251821059 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-11.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 5:36 pm Instrument : Pest 10
Sample : il10pest,42e,,pp 11398 L0.Quant Date : 5/7/2024 3:48 pm

Compound #18: Endrin





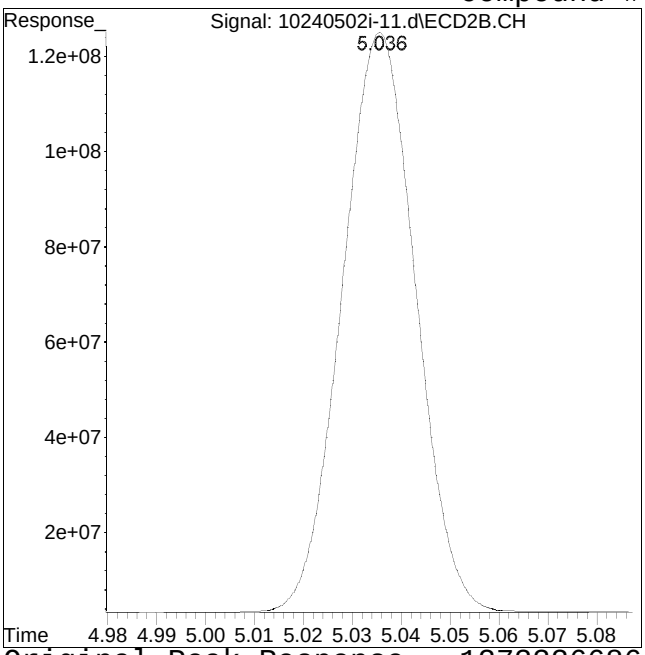
Original Peak Response = 3703605140 Manual Peak Response = 3699915795 M4
M4 = Poor automated baseline construction.

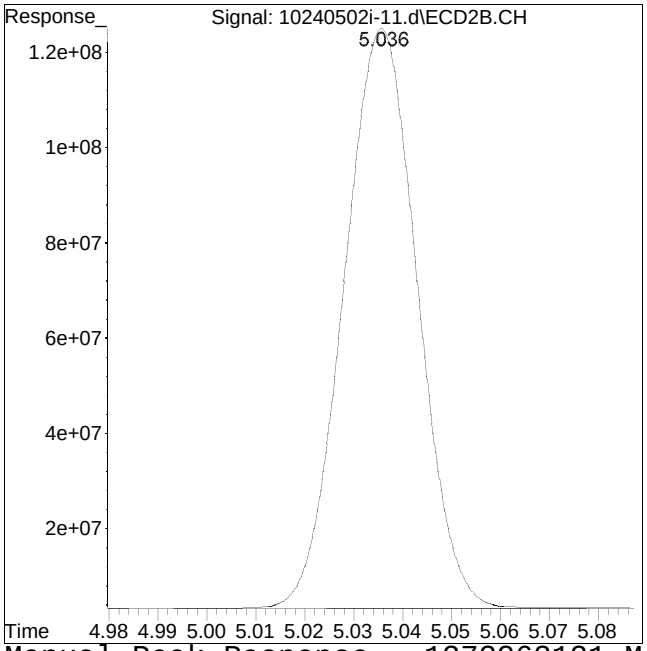
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502Q
Data File : 10240502i-11.d
Date Inj'd : 5/2/2024 5:36 pm
Sample : il10pest,42e,,pp 11398 L0.

Method : pest10_2024_05_02_ugL_ic
Operator : PEST10:jag
Instrument : Pest 10
Quant Date : 5/7/2024 3:48 pm

Compound #56: Endrin #2



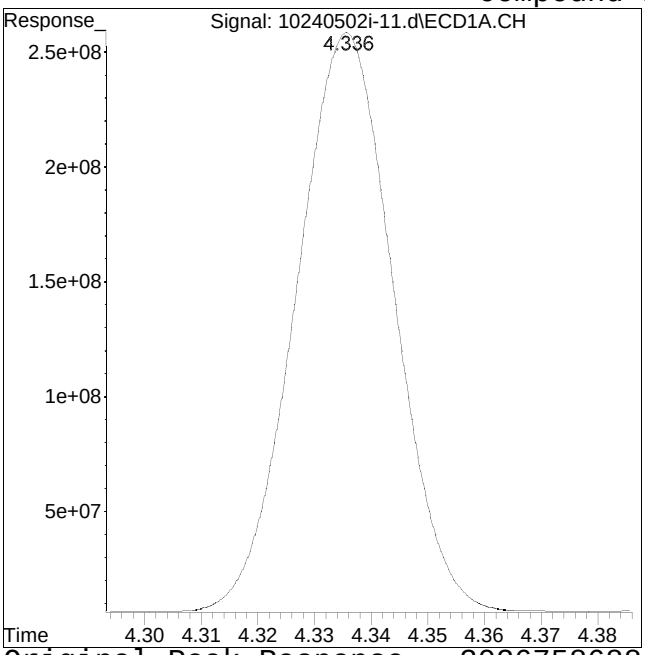


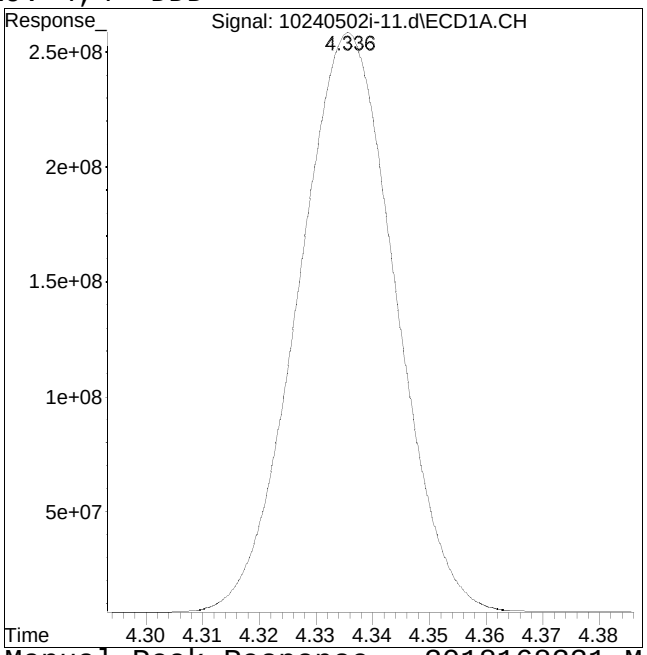
Original Peak Response = 1273326686 Manual Peak Response = 1273262121 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-11.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 5:36 pm Instrument : Pest 10
Sample : il10pest,42e,,pp 11398 L0.Quant Date : 5/7/2024 3:48 pm

Compound #19: 4,4'-DDD



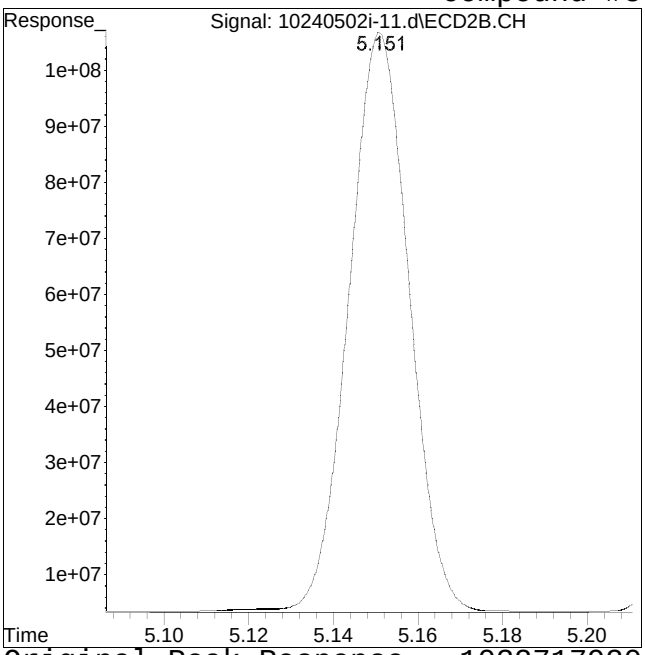


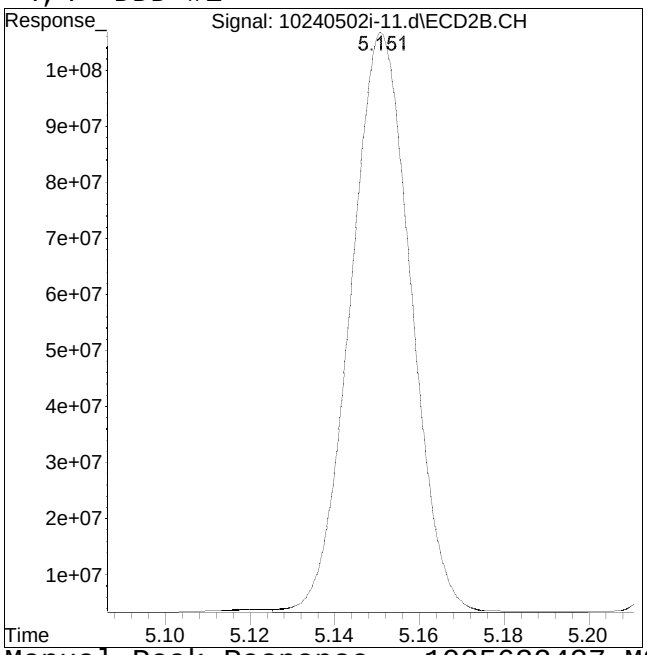
Original Peak Response = 3026758688 Manual Peak Response = 3018168331 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-11.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 5:36 pm Instrument : Pest 10
Sample : il10pest,42e,,pp 11398 L0.Quant Date : 5/7/2024 3:48 pm

Compound #57: 4,4'-DDD #2





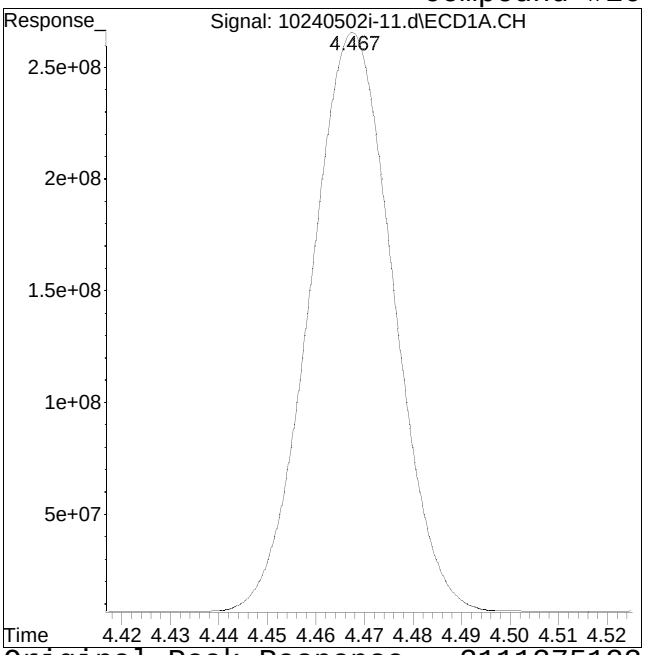
Original Peak Response = 1032717920 Manual Peak Response = 1025632437 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

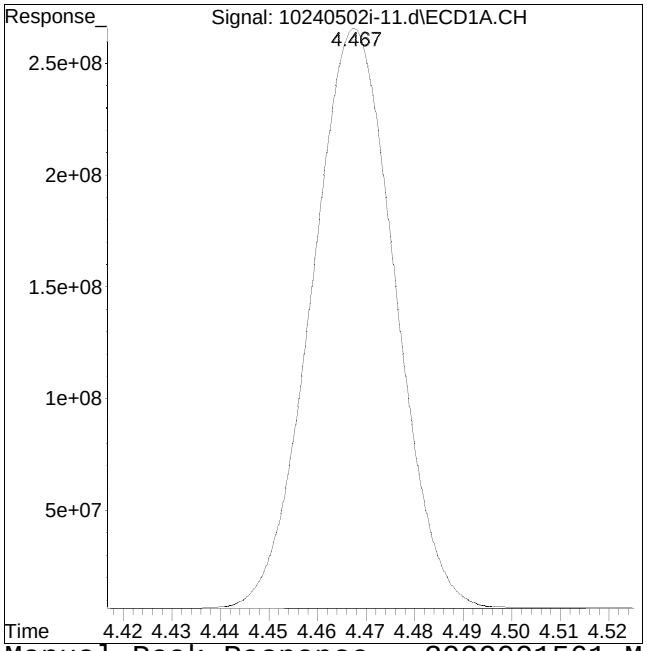
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502Q
Data File : 10240502i-11.d
Date Inj'd : 5/2/2024 5:36 pm
Sample : il10pest,42e,,pp 11398 L0.

Method : pest10_2024_05_02_ugL_ic
Operator : PEST10:jag
Instrument : Pest 10
Quant Date : 5/7/2024 3:48 pm

Compound #20: Endosulfan II



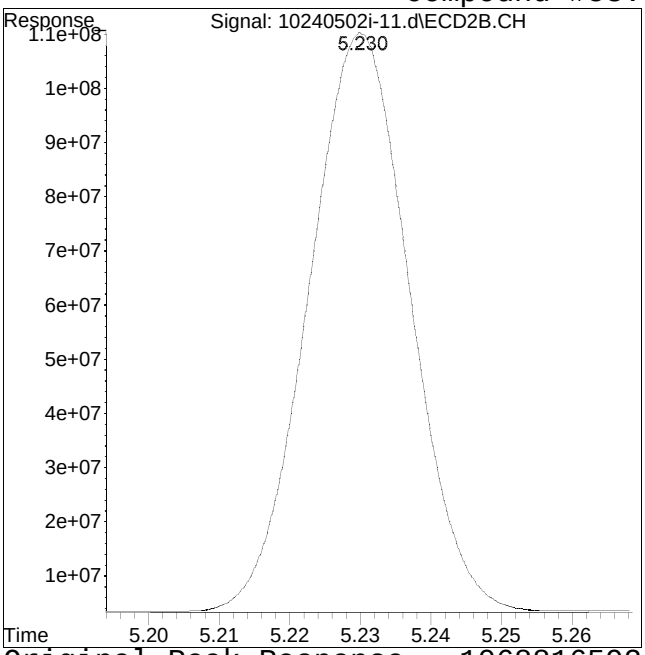


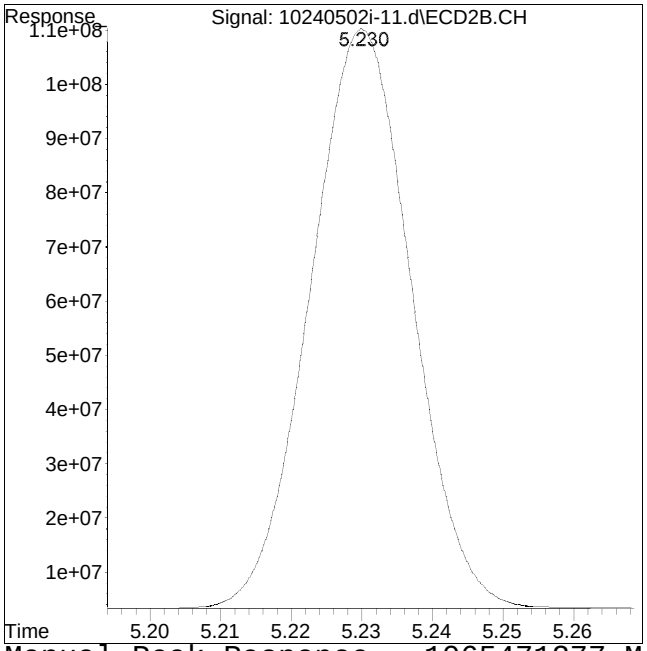
Original Peak Response = 3111375123 Manual Peak Response = 3099001561 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-11.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 5:36 pm Instrument : Pest 10
Sample : il10pest,42e,,pp 11398 L0.Quant Date : 5/7/2024 3:48 pm

Compound #58: Endosulfan II #2



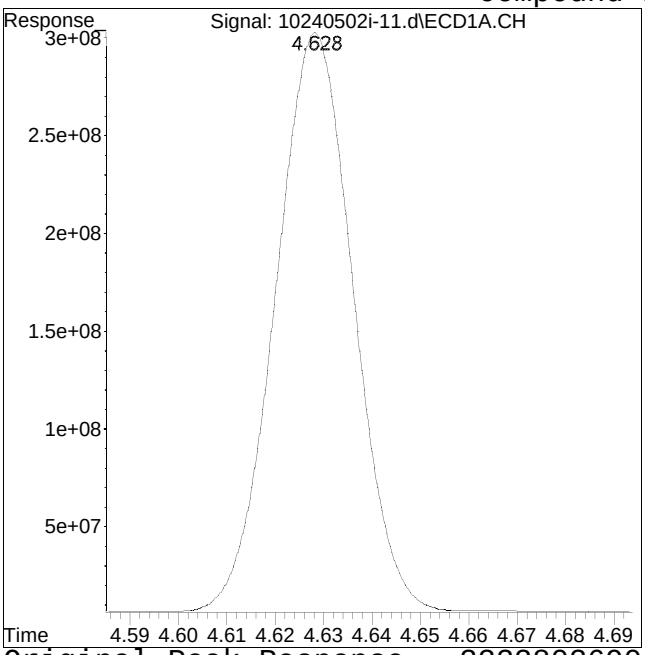


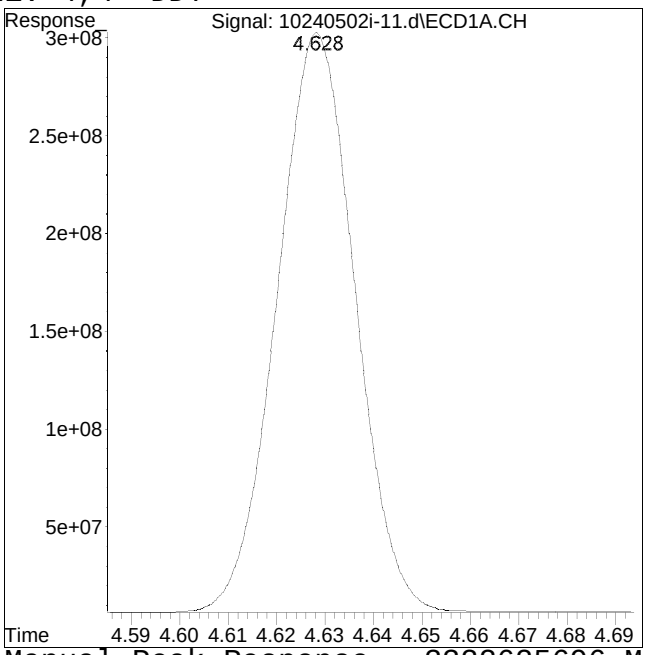
Original Peak Response = 1068816592 Manual Peak Response = 1065471277 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502Q
Data File : 10240502i-11.d
Date Inj'd : 5/2/2024 5:36 pm
Sample : il10pest,42e,,pp 11398 L0.
Method : pest10_2024_05_02_ugL_ic
Operator : PEST10:jag
Instrument : Pest 10
Quant Date : 5/7/2024 3:48 pm

Compound #21: 4,4'-DDT



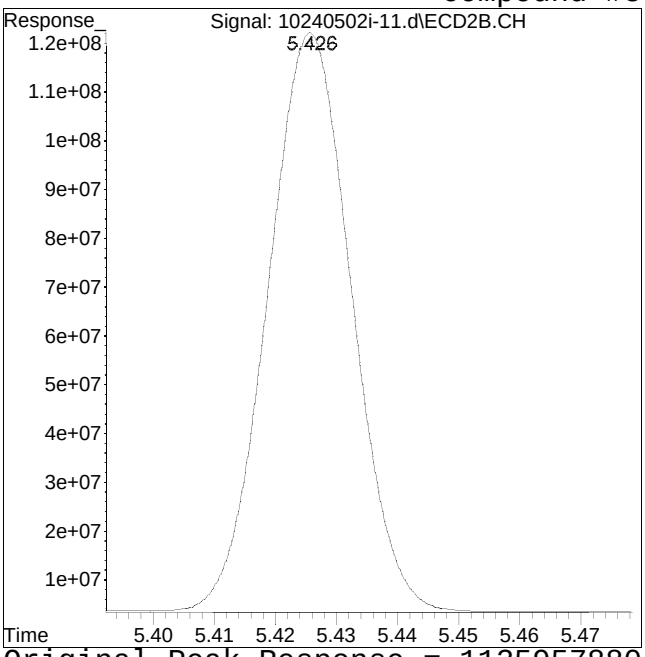


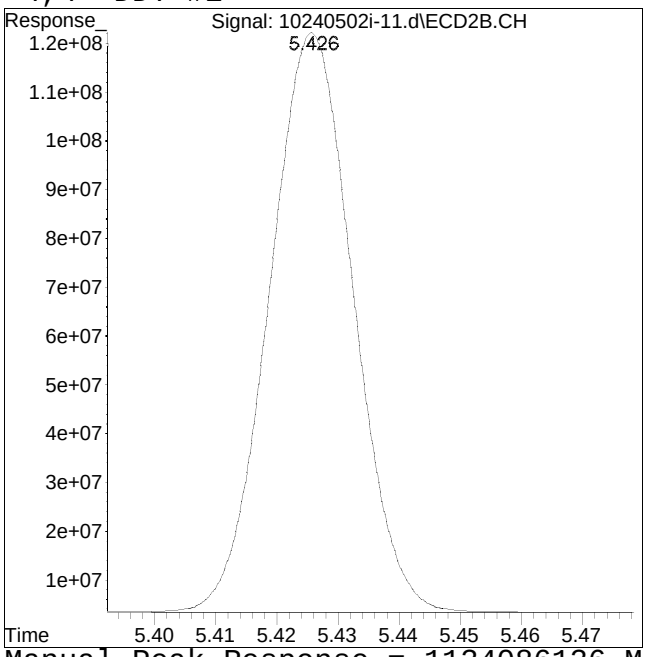
Original Peak Response = 3333803690 Manual Peak Response = 3322625696 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-11.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 5:36 pm Instrument : Pest 10
Sample : il10pest,42e,,pp 11398 L0.Quant Date : 5/7/2024 3:48 pm

Compound #59: 4,4'-DDT #2



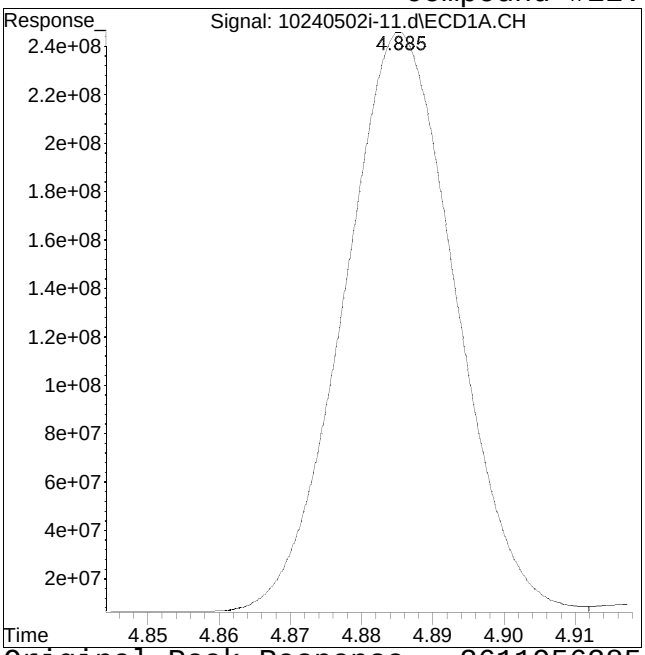


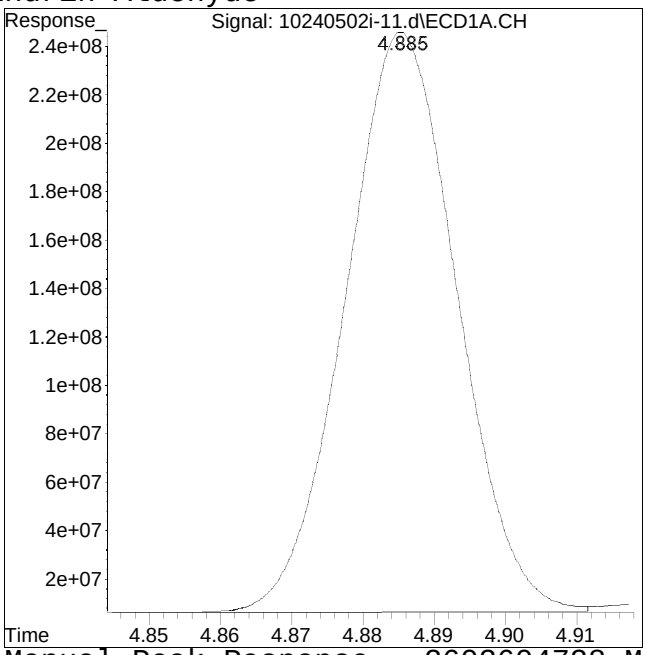
Original Peak Response = 1135957880 Manual Peak Response = 1134086136 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-11.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 5:36 pm Instrument : Pest 10
Sample : il10pest,42e,,pp 11398 L0.Quant Date : 5/7/2024 3:48 pm

Compound #22: Endrin Aldehyde



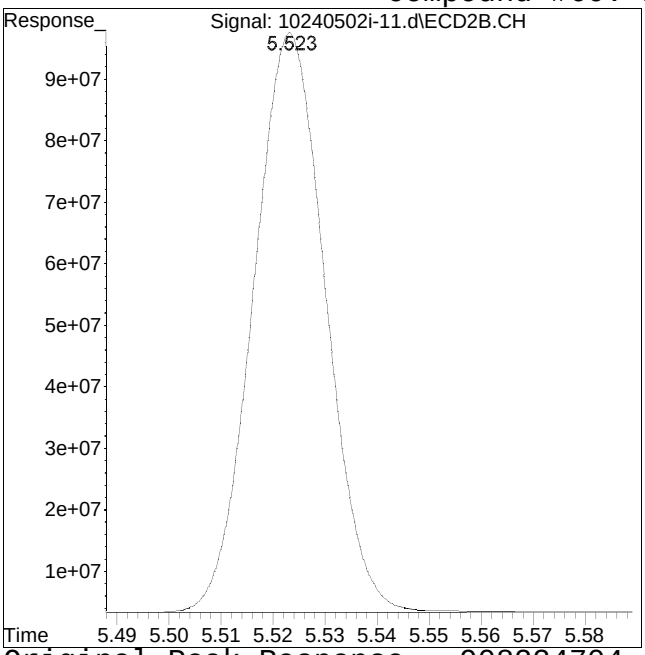


Original Peak Response = 2611956285 Manual Peak Response = 2603604728 M4
M4 = Poor automated baseline construction.

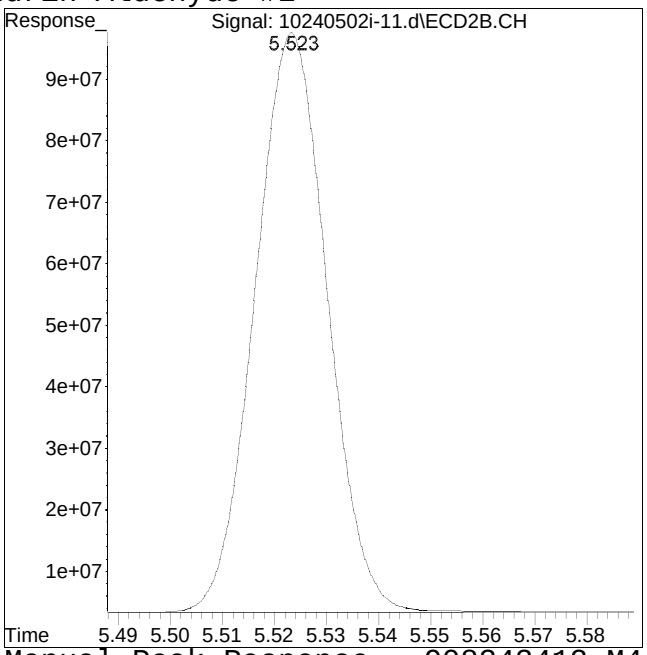
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-11.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 5:36 pm Instrument : Pest 10
Sample : il10pest,42e,,pp 11398 L0.Quant Date : 5/7/2024 3:48 pm

Compound #60: Endrin Aldehyde #2



Original Peak Response = 908224704



Manual Peak Response = 908343412 M4

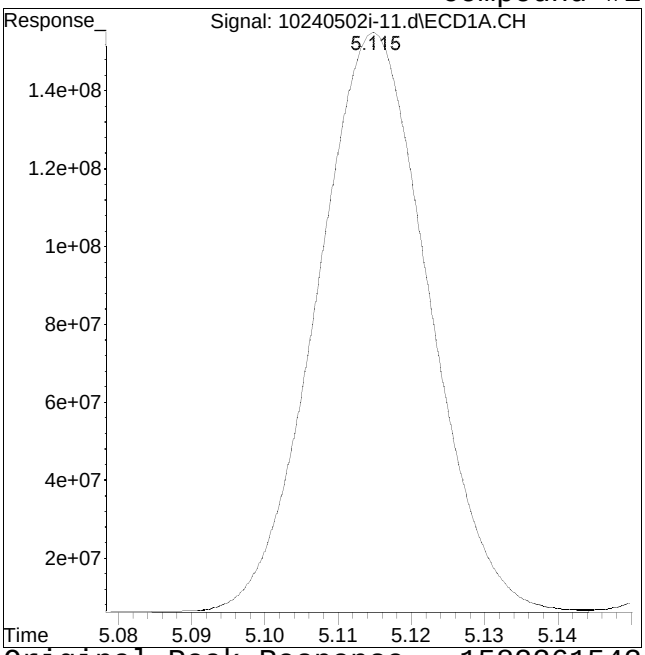
M4 = Poor automated baseline construction.

Manual Integration Report

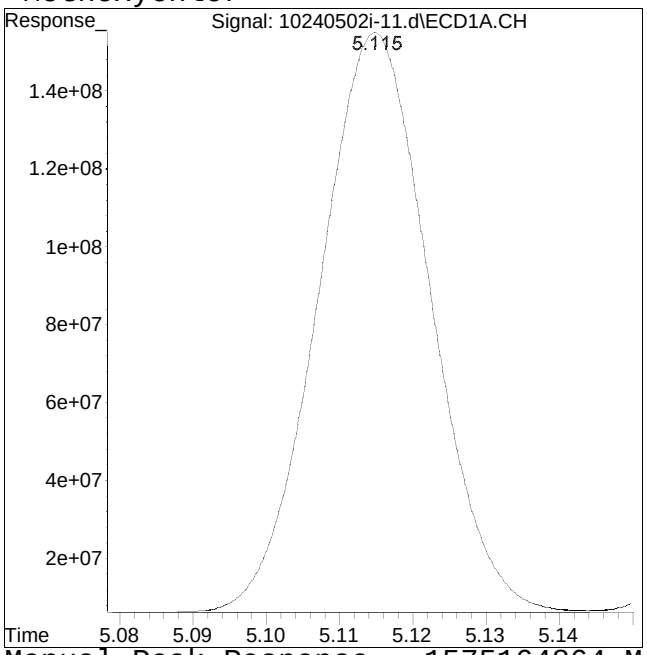
Data Path : I:\PEST\Pest10\2024\240502Q
Data File : 10240502i-11.d
Date Inj'd : 5/2/2024 5:36 pm
Sample : il10pest,42e,,pp 11398 L0.

Method : pest10_2024_05_02_ugL_ic
Operator : PEST10:jag
Instrument : Pest 10
Quant Date : 5/7/2024 3:48 pm

Compound #23: Methoxychlor



Original Peak Response = 1582261543



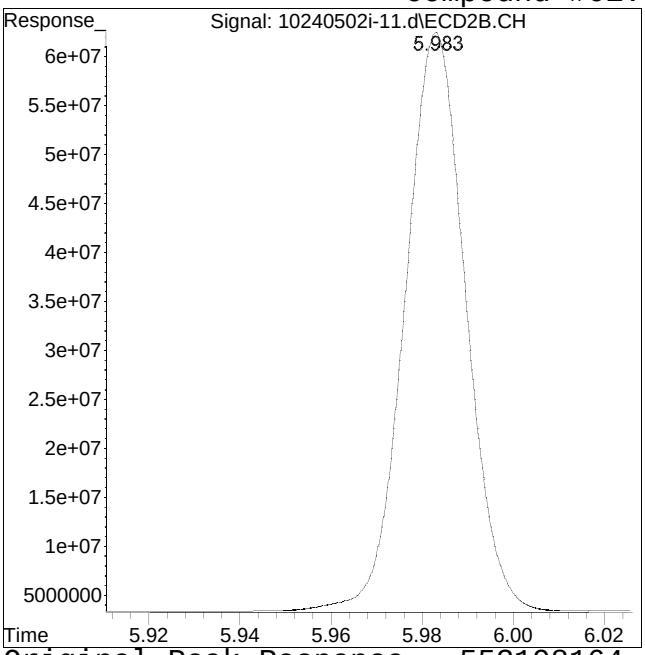
Manual Peak Response = 1575164864 M4

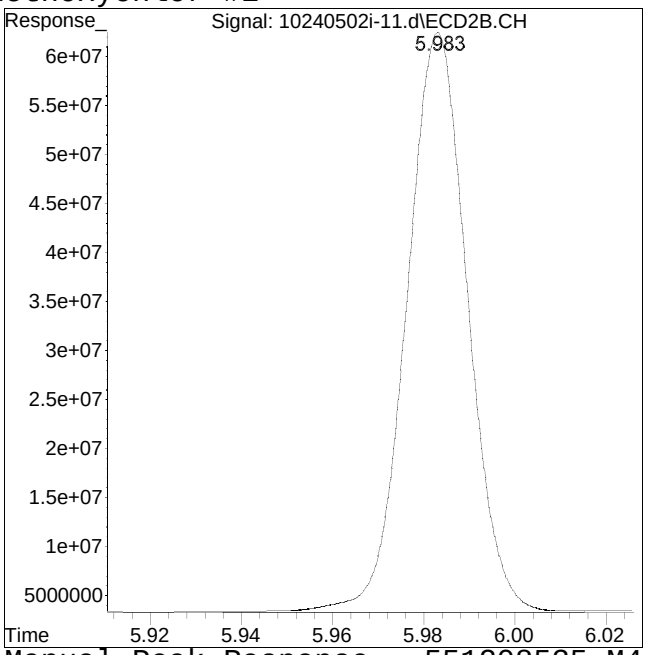
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-11.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 5:36 pm Instrument : Pest 10
Sample : il10pest,42e,,pp 11398 L0.Quant Date : 5/7/2024 3:48 pm

Compound #61: Methoxychlor #2



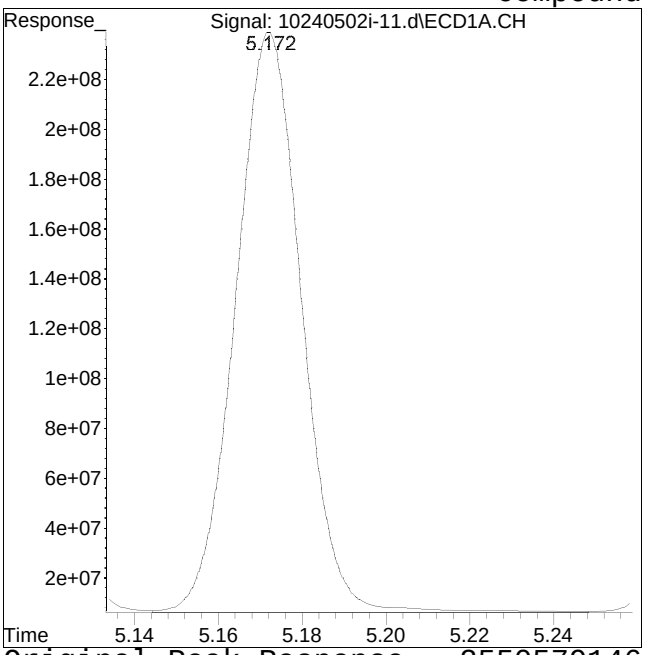


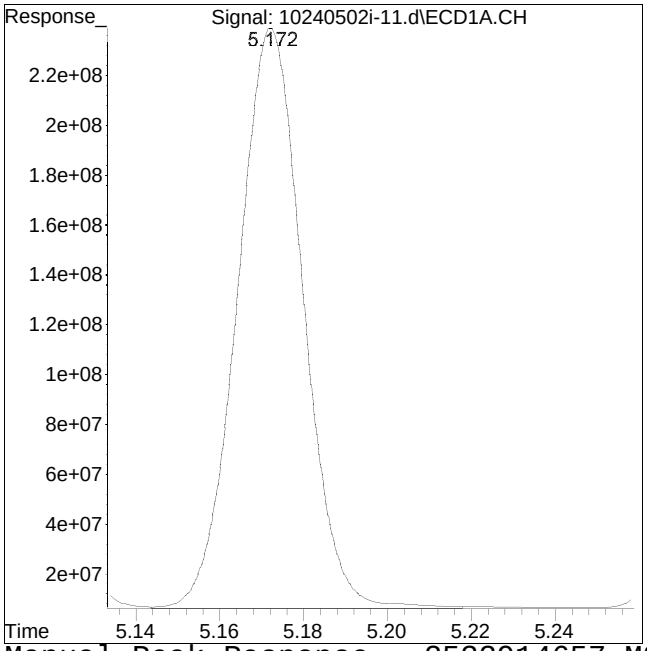
Original Peak Response = 553198164 Manual Peak Response = 551208535 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-11.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 5:36 pm Instrument : Pest 10
Sample : il10pest,42e,,pp 11398 L0.Quant Date : 5/7/2024 3:48 pm

Compound #24: Mirex



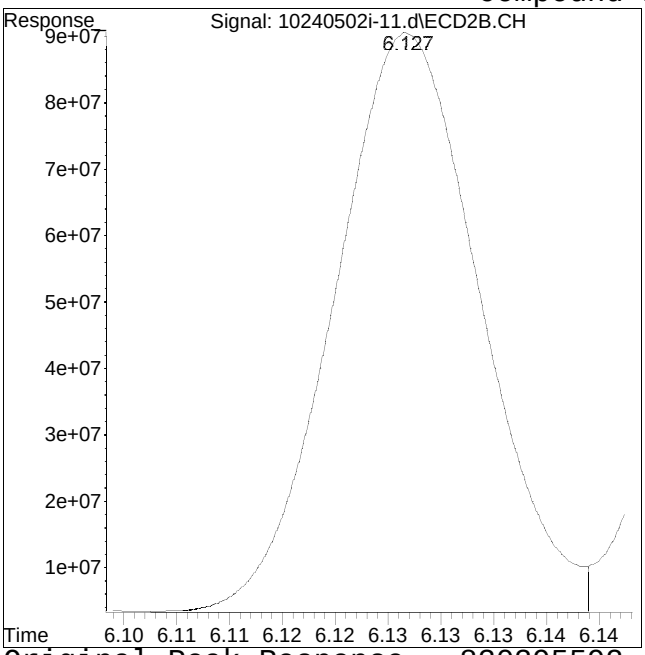


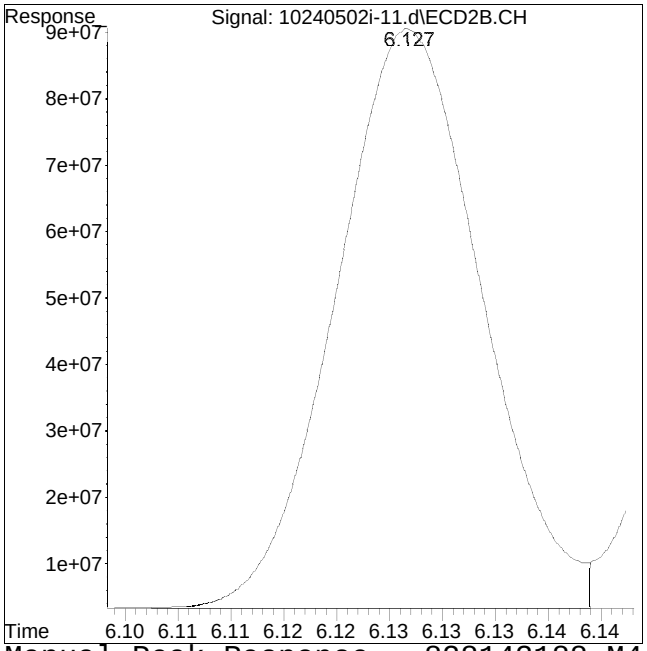
Original Peak Response = 2550579146 Manual Peak Response = 2533914657 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-11.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 5:36 pm Instrument : Pest 10
Sample : il10pest,42e,,pp 11398 L0.Quant Date : 5/7/2024 3:48 pm

Compound #62: Mirex #2



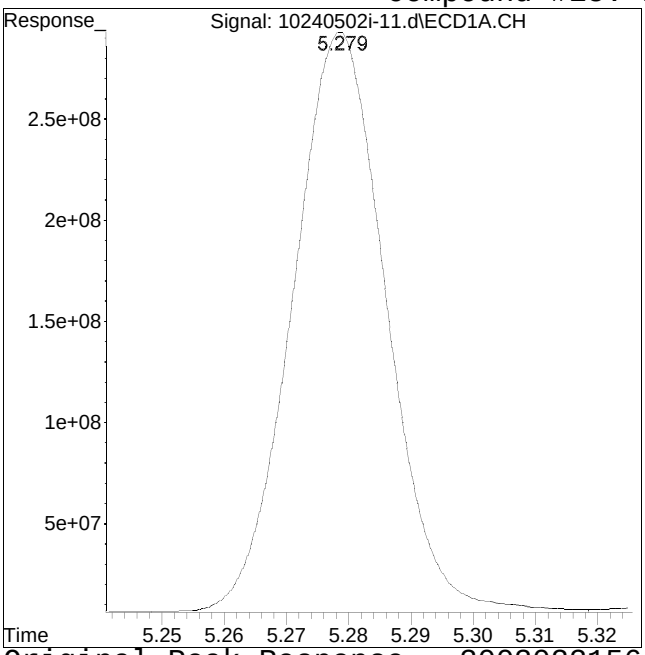


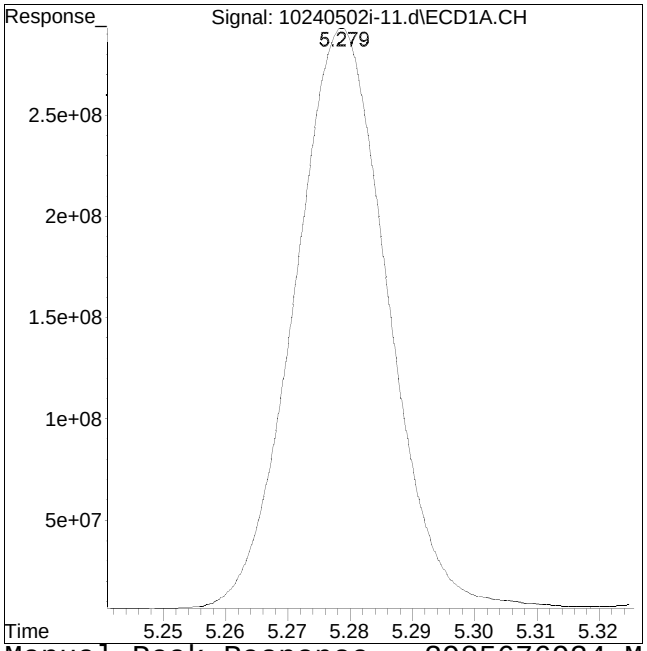
Original Peak Response = 830395592 Manual Peak Response = 828143188 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502Q
Data File : 10240502i-11.d
Date Inj'd : 5/2/2024 5:36 pm
Sample : il10pest,42e,,pp 11398 L0.
Method : pest10_2024_05_02_ugL_ic
Operator : PEST10:jag
Instrument : Pest 10
Quant Date : 5/7/2024 3:48 pm

Compound #25: Endosulfan Sulfate



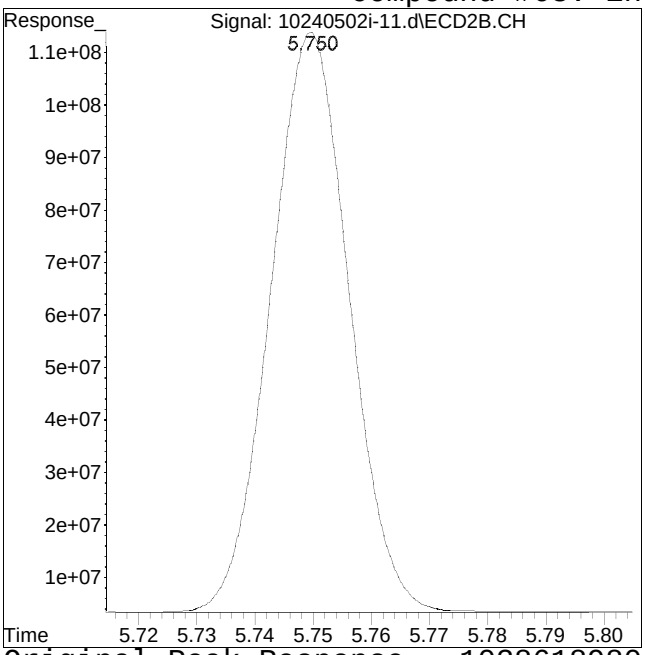


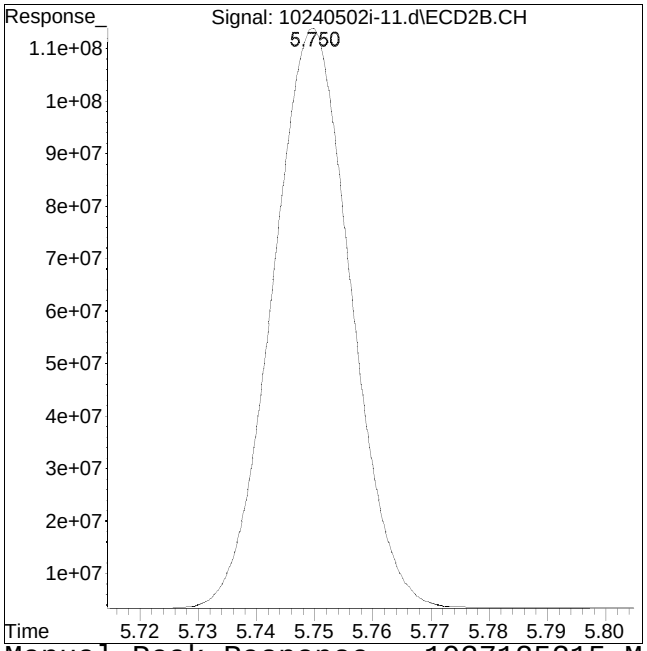
Original Peak Response = 3003023156 Manual Peak Response = 2985676934 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502Q
Data File : 10240502i-11.d
Date Inj'd : 5/2/2024 5:36 pm
Sample : il10pest,42e,,pp 11398 L0.
Method : pest10_2024_05_02_ugL_ic
Operator : PEST10:jag
Instrument : Pest 10
Quant Date : 5/7/2024 3:48 pm

Compound #63: Endosulfan Sulfate #2



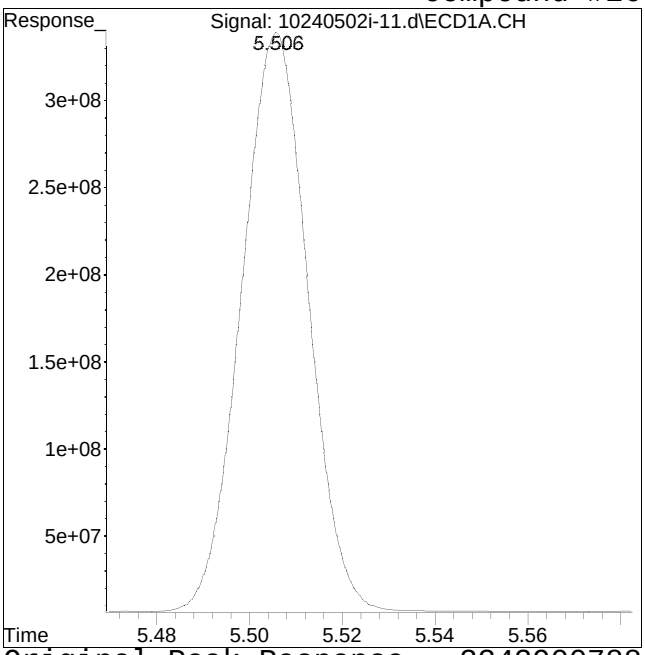


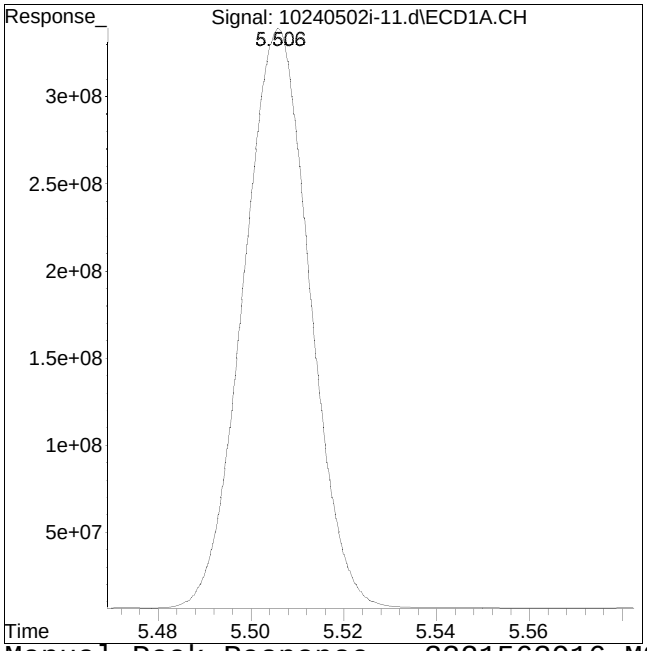
Original Peak Response = 1038618980 Manual Peak Response = 1037125215 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-11.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 5:36 pm Instrument : Pest 10
Sample : il10pest,42e,,pp 11398 L0.Quant Date : 5/7/2024 3:48 pm

Compound #26: Endrin Ketone



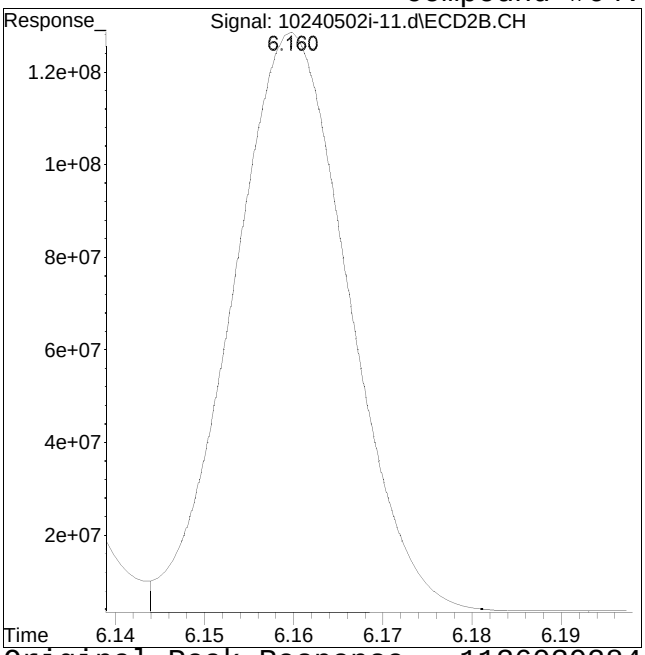


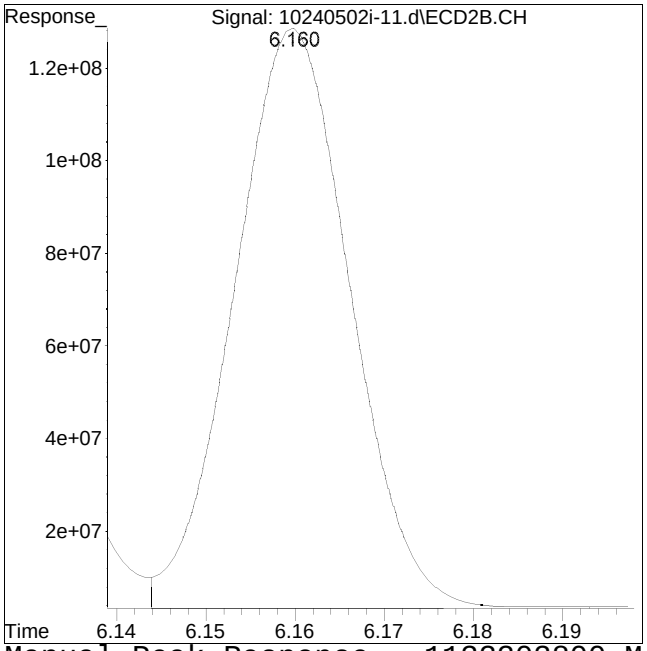
Original Peak Response = 3343900788 Manual Peak Response = 3321563916 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-11.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 5:36 pm Instrument : Pest 10
Sample : il10pest,42e,,pp 11398 L0.Quant Date : 5/7/2024 3:48 pm

Compound #64: Endrin Ketone #2



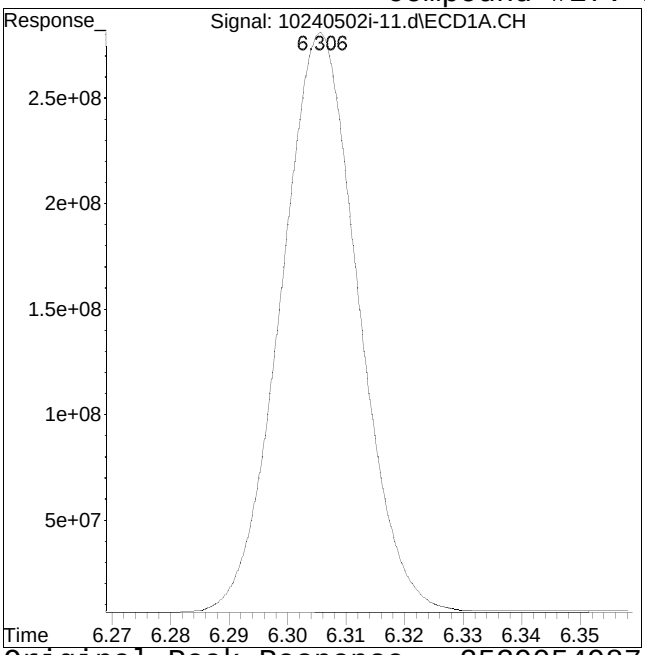


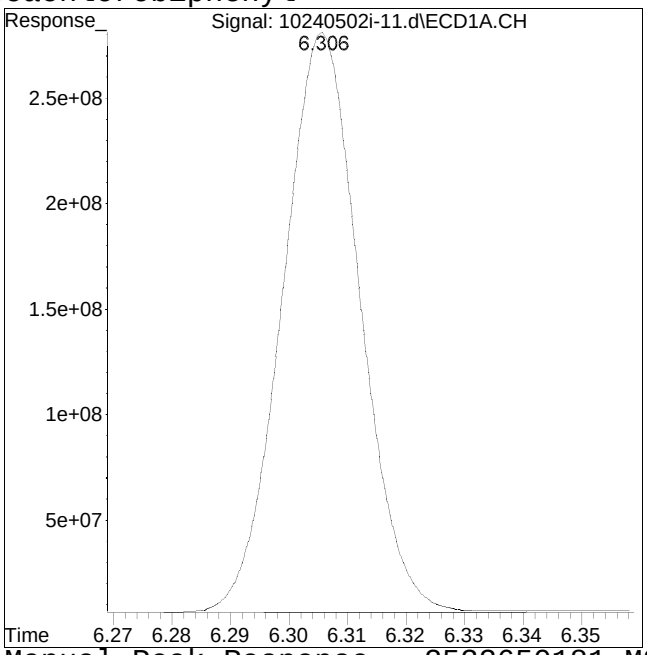
Original Peak Response = 1136039284 Manual Peak Response = 1133303800 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502Q
Data File : 10240502i-11.d
Date Inj'd : 5/2/2024 5:36 pm
Sample : il10pest,42e,,pp 11398 L0.
Method : pest10_2024_05_02_ugL_ic
Operator : PEST10:jag
Instrument : Pest 10
Quant Date : 5/7/2024 3:48 pm

Compound #27: Decachlorobiphenyl



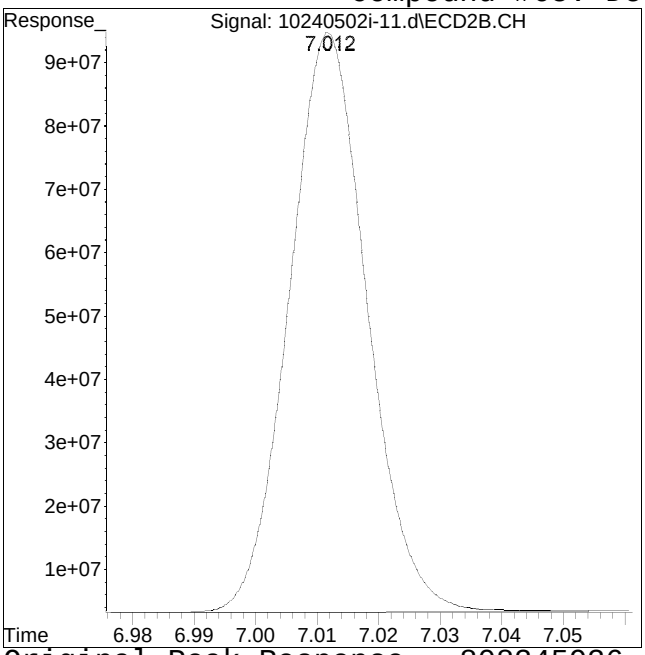


Original Peak Response = 2539054987 Manual Peak Response = 2533650181 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

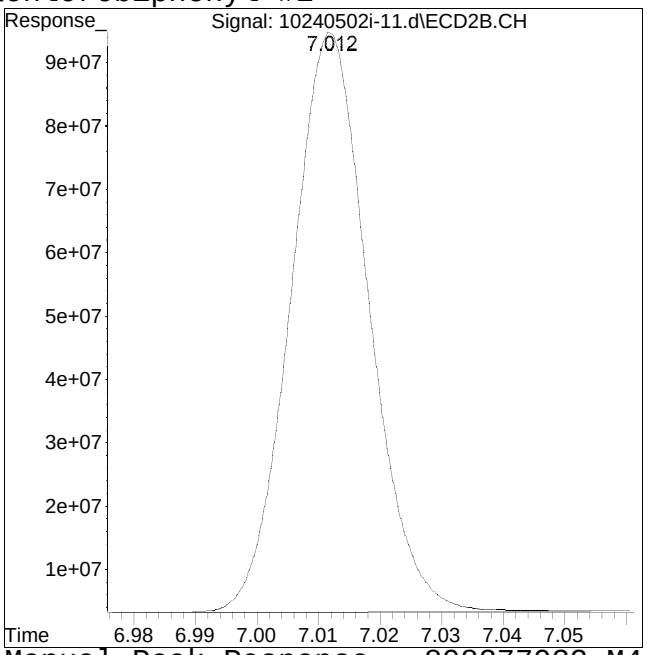
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-11.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 5:36 pm Instrument : Pest 10
Sample : il10pest,42e,,pp 11398 L0.Quant Date : 5/7/2024 3:48 pm

Compound #65: Decachlorobiphenyl #2



Original Peak Response = 808345936



Manual Peak Response = 808277932 M4

M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest10\2024\240502ical\
Data File : 10240502i-12.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 May 2024 5:47 pm
Operator : PEST10:jag
Sample : il11pest,42e,,pp 11397 L0.4
Misc : wg1919460, (Sig #1); ical (Sig #2)
ALS Vial : 12 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 07 17:40:27 2024
Quant Method : I:\PEST\Pest10\2024\240502ical\pest10_2024_05_02_ugL_ical.m
Quant Title : pest
QLast Update : Tue May 07 17:39:24 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	1.318	1.429	397.9E6	146.2E6	25.000M4	25.000M4
28) i	1-br-2-nb_Ch	0.000	0.000	0	0	N.D. d	N.D. d
33) i	1-br-2-nb_To	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	1.663	1.921	6278.9E6	2086.3E6	363.449M4	379.421
	Spiked Amount 50.000	Range 30 - 150		Recovery =		726.90%#	758.84%#
27) s	Decachlorobi	6.305	7.010	5054.4E6	1607.9E6	341.537M3	330.531M4
	Spiked Amount 50.000	Range 30 - 150		Recovery =		683.07%#	661.06%#
	Target Compounds						
3) t	Hexachlorobe	1.877	2.252	6766.6E6	2308.2E6	366.558M4	365.264
4) t	alpha-BHC	1.977	2.351	10302.0E6	3471.2E6	428.533M4	443.345M3
5) t	gamma-BHC (l	2.180	2.645	9296.1E6	3131.6E6	408.017M3	425.830M4
6) t	beta-BHC	2.235	2.709	3656.2E6	1284.6E6	361.517M4	369.298M4
7) t	delta-BHC	2.364	2.984	9554.5E6	3264.5E6	425.017M4	442.069M4
8) t	Heptachlor	2.527	3.053	7906.3E6	2811.1E6	365.389M4	384.952M4
9) t	Aldrin	2.770	3.381	7826.4E6	2742.5E6	383.517M4	412.283M4
10) t	Alachlor	2.891	3.258	866.0E6	337.5E6	350.430M4	290.381M4
11) t	Chlorpyrifos	2.982	3.620	2860.6E6	1144.9E6	383.618M4	326.748M4

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest10\2024\240502ical\
Data File : 10240502i-12.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 May 2024 5:47 pm
Operator : PEST10:jag
Sample : il11pest,42e,,pp 11397 L0.4
Misc : wg1919460, (Sig #1); ical (Sig #2)
ALS Vial : 12 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 07 17:40:27 2024
Quant Method : I:\PEST\Pest10\2024\240502ical\pest10_2024_05_02_ugL_ical.m
Quant Title : pest
QLast Update : Tue May 07 17:39:24 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

		Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
12)	t	Heptachlor E	3.316	4.010	6937.3E6	2485.4E6	356.867M4	373.748M4
13)	t	gamma-Chlord	3.439	4.233	6810.0E6	2349.6E6	382.950M4	397.206M4
14)	t	alpha-Chlord	3.574	4.398	7512.1E6	2586.2E6	371.873M4	388.735M4
15)	t	4,4'-DDE	3.670	4.588	7539.2E6	2601.5E6	394.088M4	422.913M3
16)	t	Endosulfan I	3.712	4.458	6453.9E6	2281.0E6	347.399M4	368.614M3
17)	t	Dieldrin	3.972	4.743	7229.7E6	2486.0E6	378.473M4	401.435M4
18)	t	Endrin	4.227	5.035	7363.0E6	2497.2E6	375.271M4	393.025M4
19)	t	4,4'-DDD	4.335	5.151	6133.9E6	2134.5E6	394.418M4	431.173M3
20)	t	Endosulfan I	4.467	5.230	4667.3E6	1611.3E6	275.607M4	289.589M4
21)	t	4,4'-DDT	4.627	5.425	6753.8E6	2298.6E6	392.422M4	409.493M4
22)	t	Endrin Aldeh	4.885	5.523	5140.7E6	1798.5E6	379.053M4	411.983M4
23)	t	Methoxychlor	5.114	5.983	3027.7E6	1098.9E6	389.273M4	356.004M4
24)	t	Mirex	5.171	6.127	5142.2E6	1660.0E6	403.184M4	339.036M4
25)	t	Endosulfan S	5.278	5.749	5902.4E6	2050.1E6	351.465M4	369.609M4
26)	t	Endrin Keton	5.505	6.159	6442.6E6	2221.3E6	349.765M4	367.554M4
29)	l1	chlordane-1	0.000	0.000	0	0	N.D. d	N.D. d
30)	l1	chlordane-3	0.000	0.000	0	0	N.D. d	N.D. d
31)	l1	chlordane-4	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\PEST\Pest10\2024\240502ical\
Data File : 10240502i-12.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 May 2024 5:47 pm
Operator : PEST10:jag
Sample : il11pest,42e,,pp 11397 L0.4
Misc : wg1919460, (Sig #1); ical (Sig #2)
ALS Vial : 12 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 07 17:40:27 2024
Quant Method : I:\PEST\Pest10\2024\240502ical\pest10_2024_05_02_ugL_ical.m
Quant Title : pest
QLast Update : Tue May 07 17:39:24 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
32) l1	chlordane-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	chlordane-1			0	0	N.D.	N.D.
Average	chlordane-1					0.000	0.000
34) l2	toxaphene-1	0.000	0.000	0	0	N.D. d	N.D. d
35) l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
36) l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
37) l2	toxaphene-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

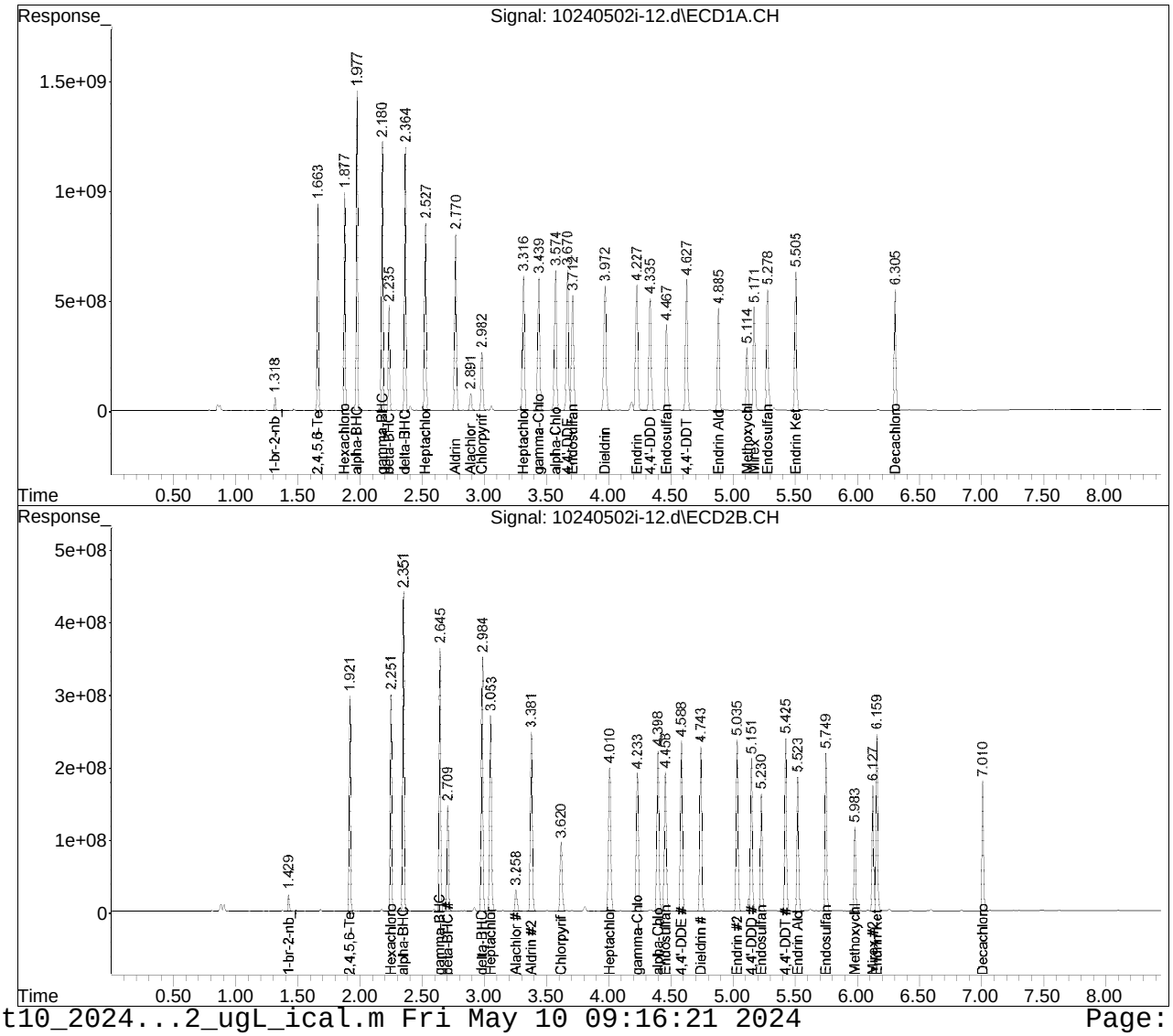
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest10\2024\240502ical\
Data File : 10240502i-12.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 May 2024 5:47 pm
Operator : PEST10:jag
Sample : il11pest,42e,,pp 11397 L0.4
Misc : wg1919460, (Sig #1); ical (Sig #2)
ALS Vial : 12 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 07 17:40:27 2024
Quant Method : I:\PEST\Pest10\2024\240502ical\pest10_2024_05_02_ugL_ical.m
Quant Title : pest
QLast Update : Tue May 07 17:39:24 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

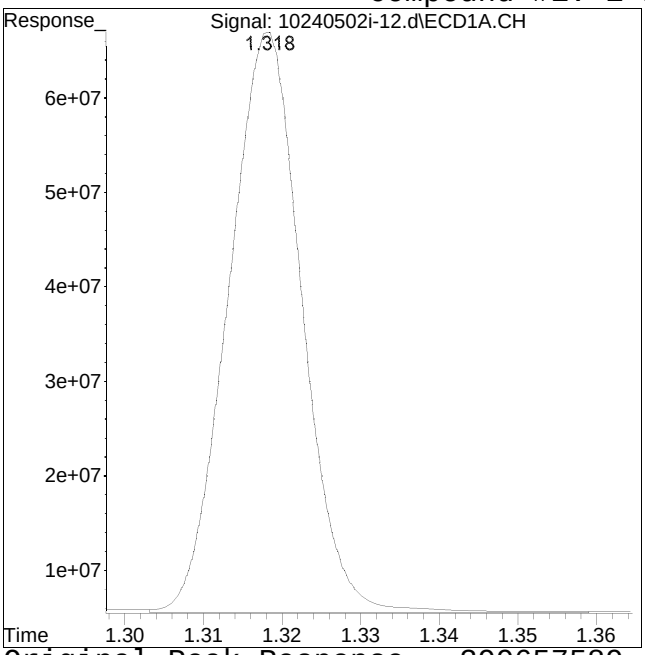
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

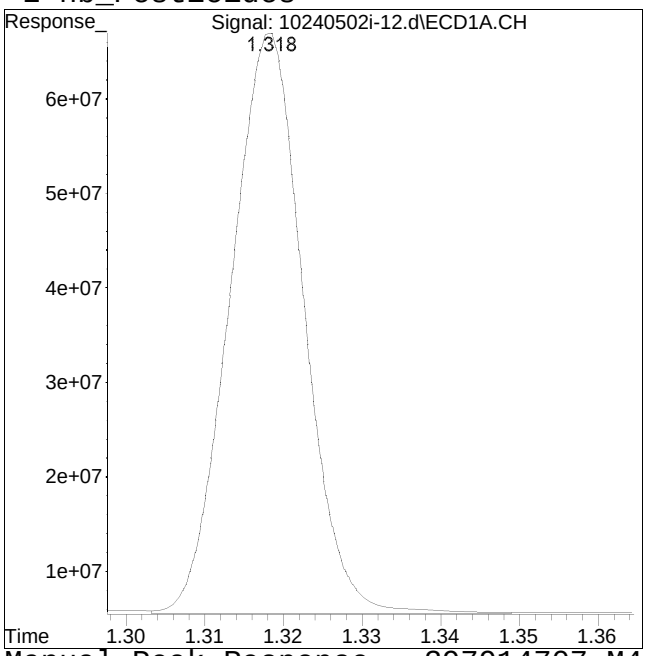


Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502Q
Data File : 10240502i-12.d
Date Inj'd : 5/2/2024 5:47 pm
Sample : il11pest,42e,,pp 11397 L0.
Method : pest10_2024_05_02_ugL_ic
Operator : PEST10:jag
Instrument : Pest 10
Quant Date : 5/7/2024 5:40 pm

Compound #1: 1-br-2-nb_Pesticides





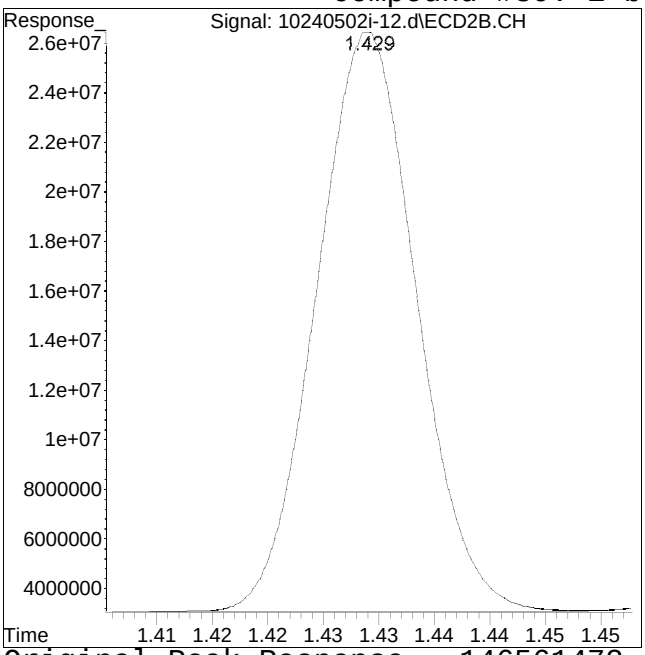
Original Peak Response = 399657589 Manual Peak Response = 397914707 M4
M4 = Poor automated baseline construction.

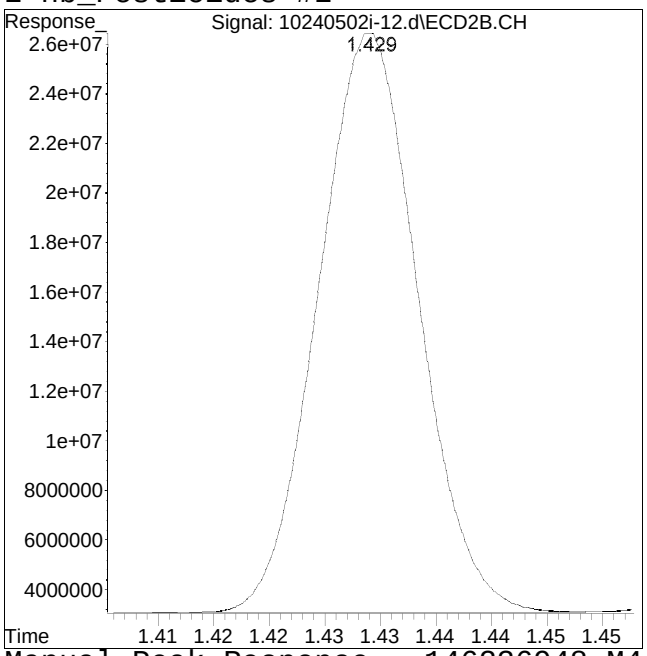
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502Q
Data File : 10240502i-12.d
Date Inj'd : 5/2/2024 5:47 pm
Sample : il11pest,42e,,pp 11397 L0

Method : pest10_2024_05_02_ugL_ic
Operator : PEST10:jag
Instrument : Pest 10
Quant Date : 5/7/2024 5:40 pm

Compound #39: 1-br-2-nb_Pesticides #2



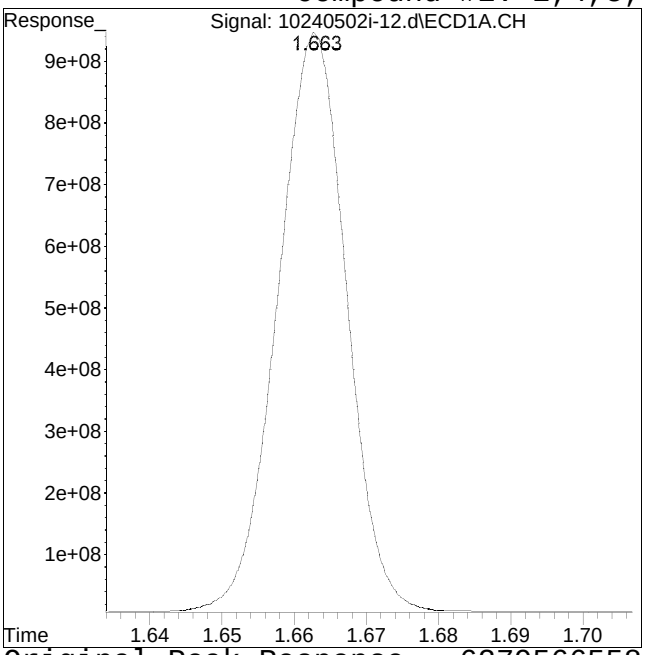


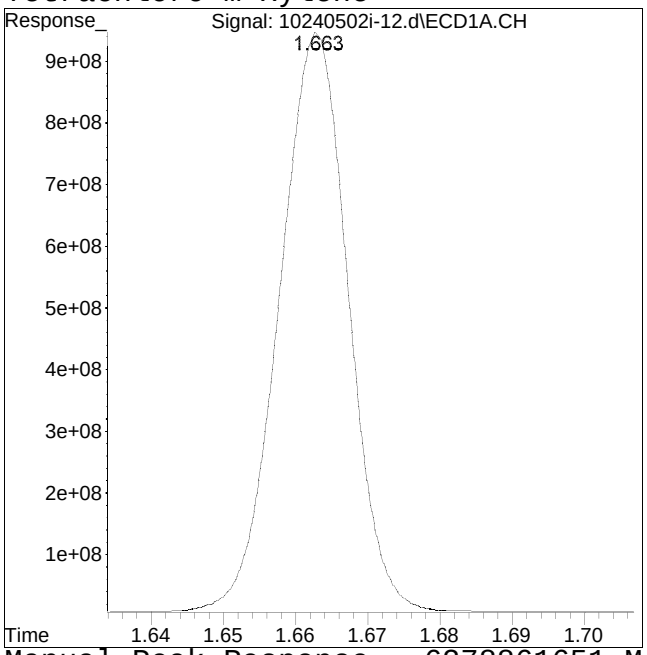
Original Peak Response = 146561472 Manual Peak Response = 146236948 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-12.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 5:47 pm Instrument : Pest 10
Sample : il11pest,42e,,pp 11397 L0.Quant Date : 5/7/2024 5:40 pm

Compound #2: 2,4,5,6-Tetrachloro-m-xylene



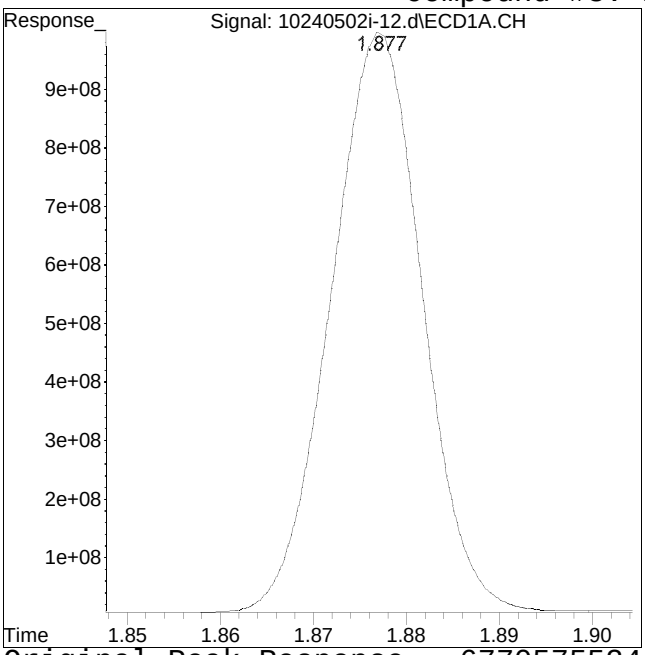


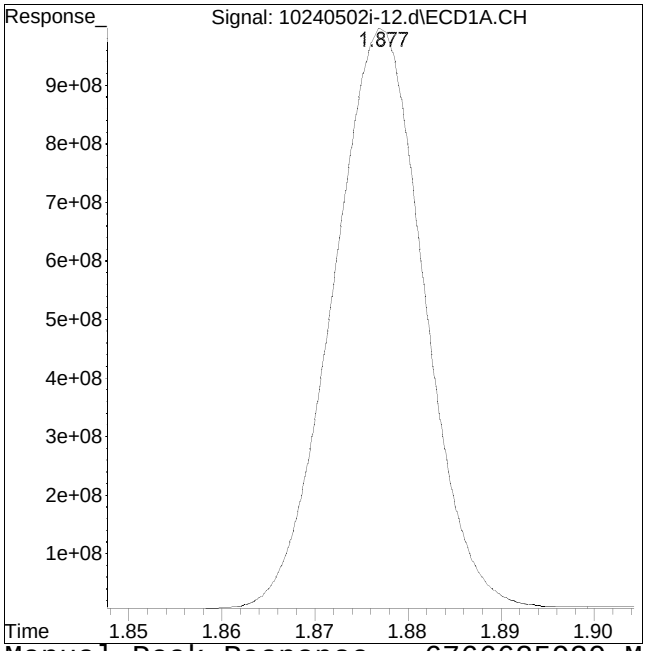
Original Peak Response = 6279566558 Manual Peak Response = 6278861651 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-12.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 5:47 pm Instrument : Pest 10
Sample : il11pest,42e,,pp 11397 L0.Quant Date : 5/7/2024 5:40 pm

Compound #3: Hexachlorobenzene



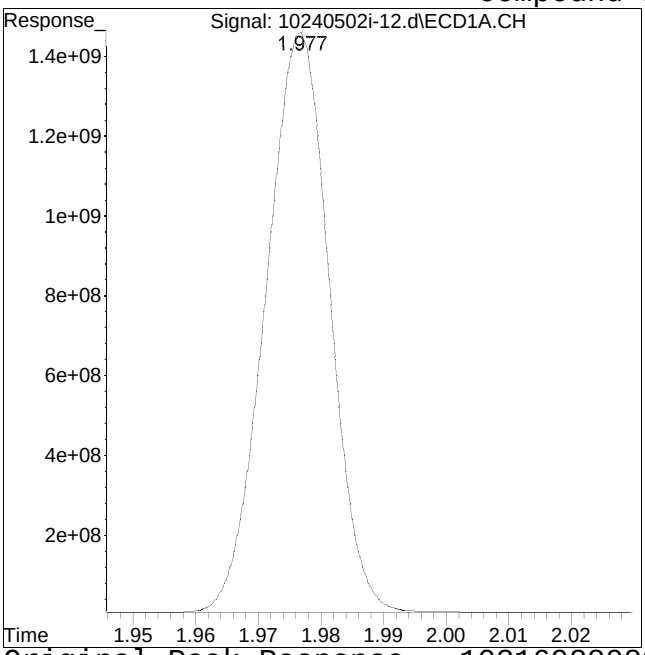


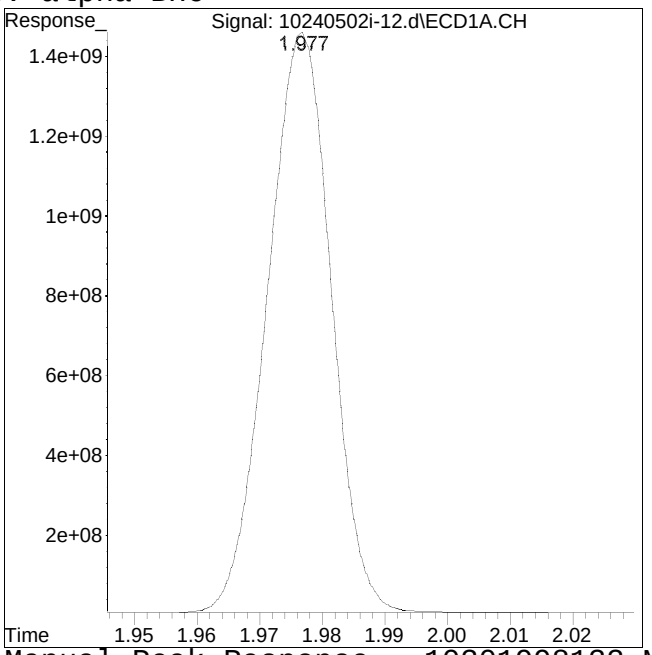
Original Peak Response = 6770575524 Manual Peak Response = 6766625930 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-12.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 5:47 pm Instrument : Pest 10
Sample : il11pest,42e,,pp 11397 L0.Quant Date : 5/7/2024 5:40 pm

Compound #4: alpha-BHC



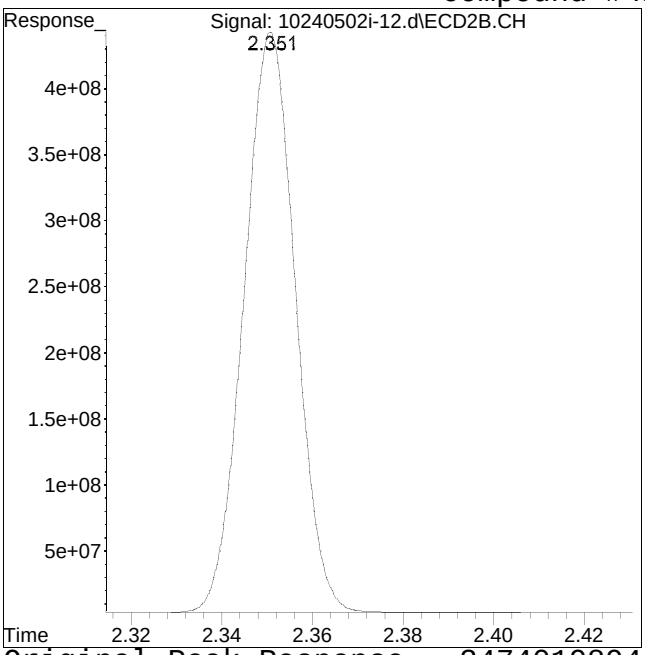


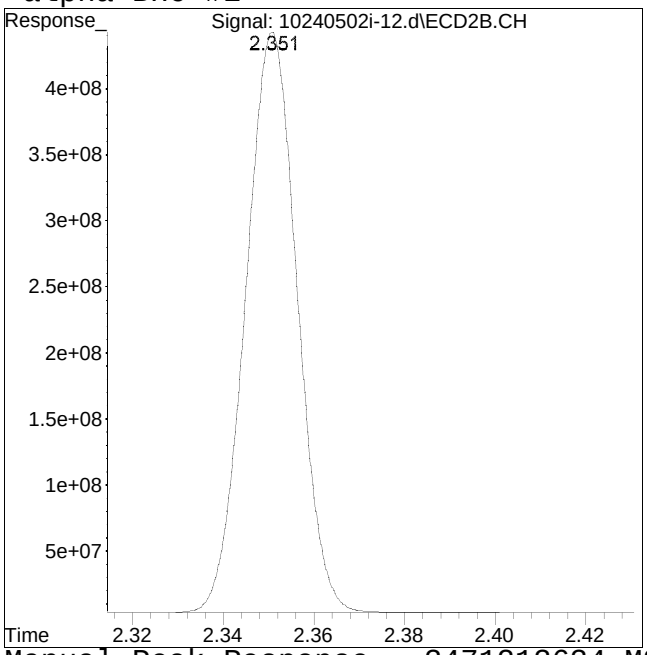
Original Peak Response = 10316928081 Manual Peak Response = 10301998133 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-12.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 5:47 pm Instrument : Pest 10
Sample : il11pest,42e,,pp 11397 L0.Quant Date : 5/7/2024 5:40 pm

Compound #42: alpha-BHC #2



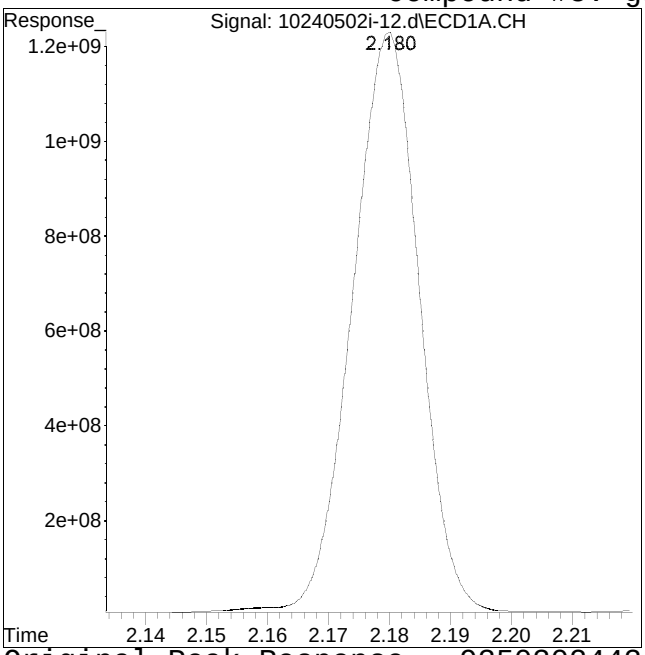


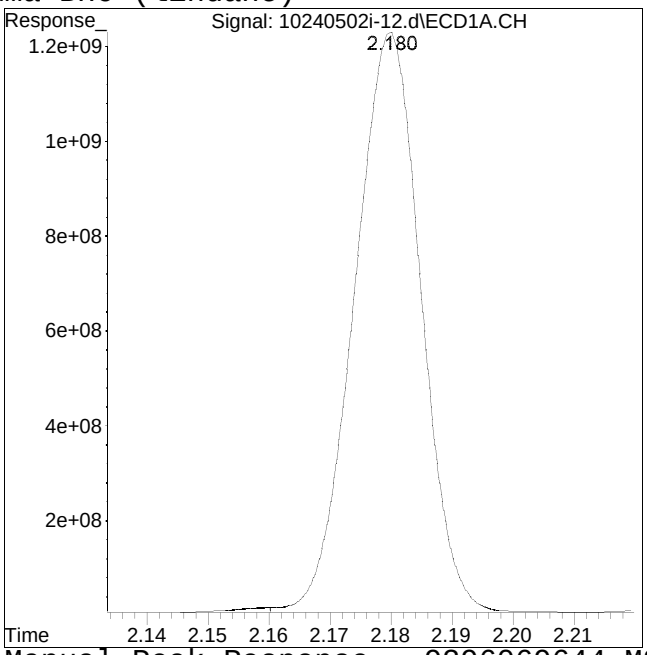
Original Peak Response = 3474019894 Manual Peak Response = 3471213634 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-12.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 5:47 pm Instrument : Pest 10
Sample : il11pest,42e,,pp 11397 L0.Quant Date : 5/7/2024 5:40 pm

Compound #5: gamma-BHC (lindane)



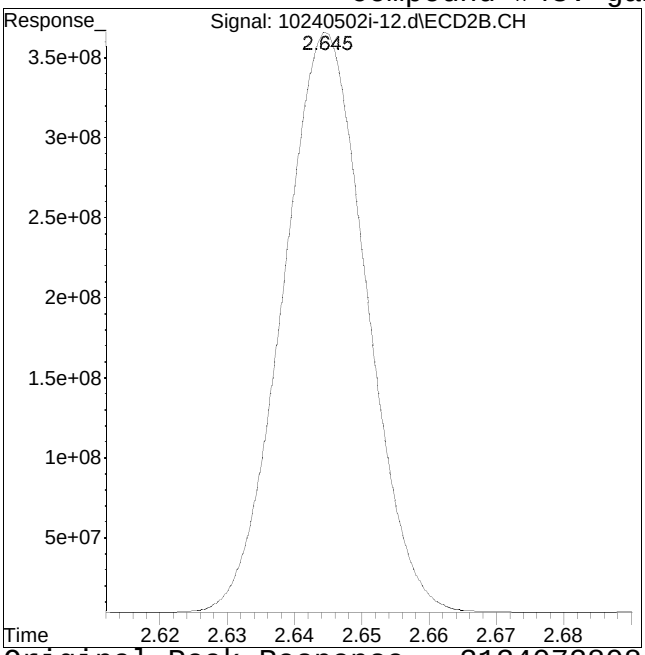


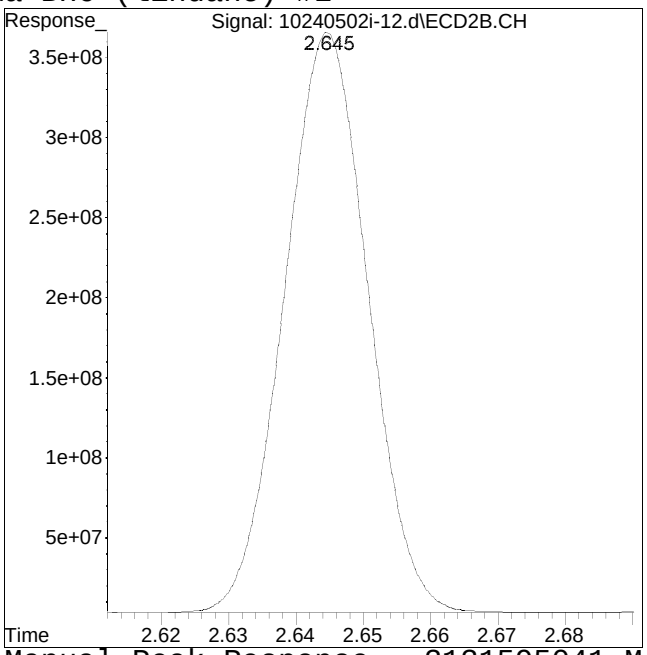
Original Peak Response = 9350302443 Manual Peak Response = 9296069644 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-12.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 5:47 pm Instrument : Pest 10
Sample : il11pest,42e,,pp 11397 L0.Quant Date : 5/7/2024 5:40 pm

Compound #43: gamma-BHC (lindane) #2



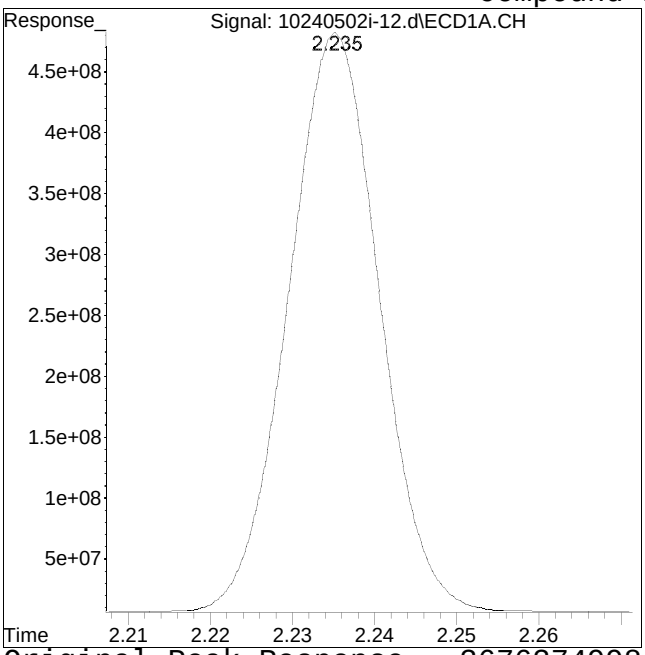


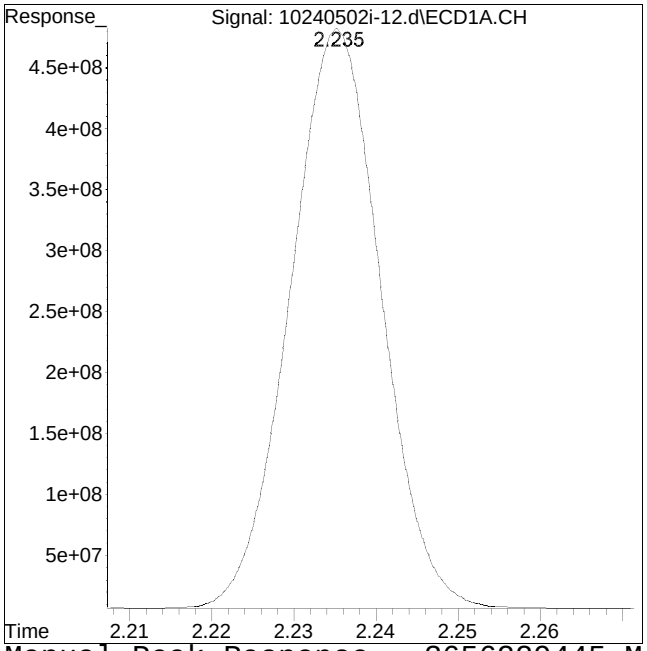
Original Peak Response = 3134073808 Manual Peak Response = 3131595041 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-12.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 5:47 pm Instrument : Pest 10
Sample : il11pest,42e,,pp 11397 L0.Quant Date : 5/7/2024 5:40 pm

Compound #6: beta-BHC





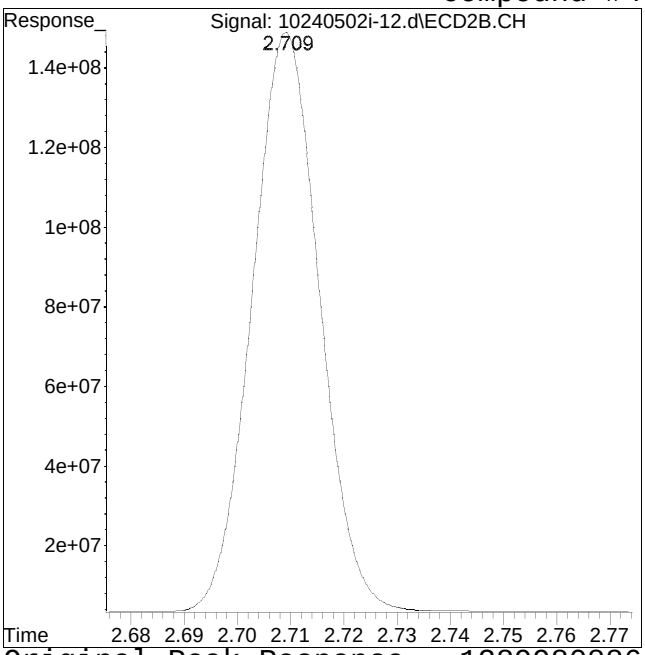
Original Peak Response = 3676374998 Manual Peak Response = 3656229445 M4
M4 = Poor automated baseline construction.

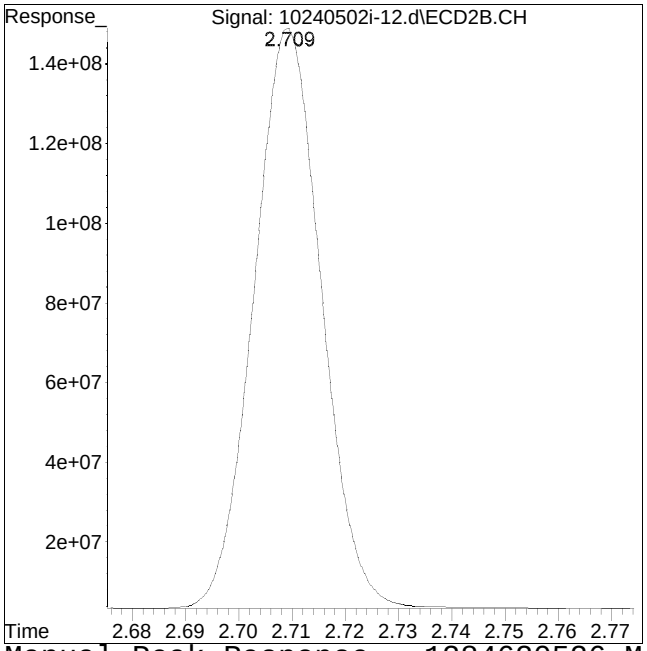
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502Q
Data File : 10240502i-12.d
Date Inj'd : 5/2/2024 5:47 pm
Sample : il11pest,42e,,pp 11397 L0.

Method : pest10_2024_05_02_ugL_ic
Operator : PEST10:jag
Instrument : Pest 10
Quant Date : 5/7/2024 5:40 pm

Compound #44: beta-BHC #2



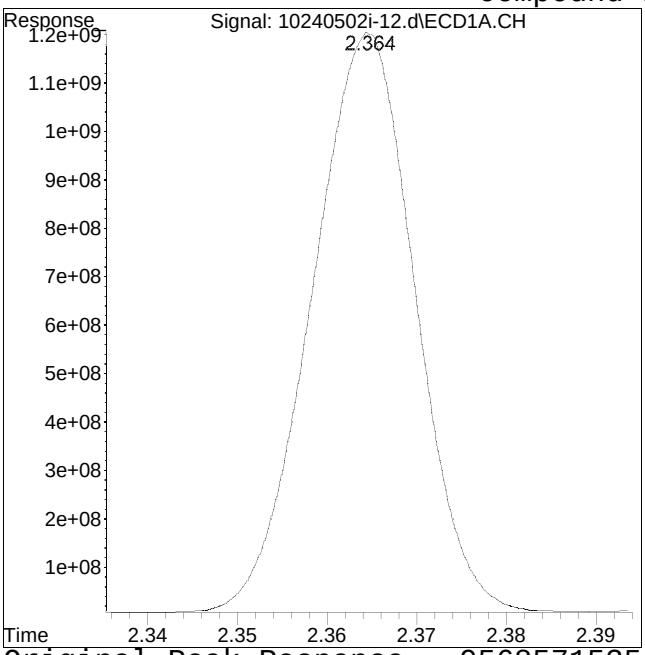


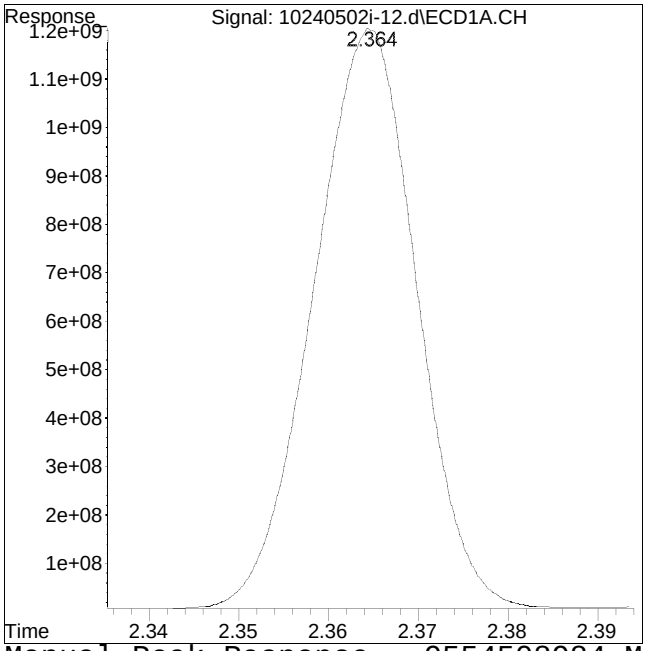
Original Peak Response = 1289980886 Manual Peak Response = 1284620526 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502Q
Data File : 10240502i-12.d
Date Inj'd : 5/2/2024 5:47 pm
Sample : il11pest,42e,,pp 11397 L0.
Method : pest10_2024_05_02_ugL_ic
Operator : PEST10:jag
Instrument : Pest 10
Quant Date : 5/7/2024 5:40 pm

Compound #7: delta-BHC





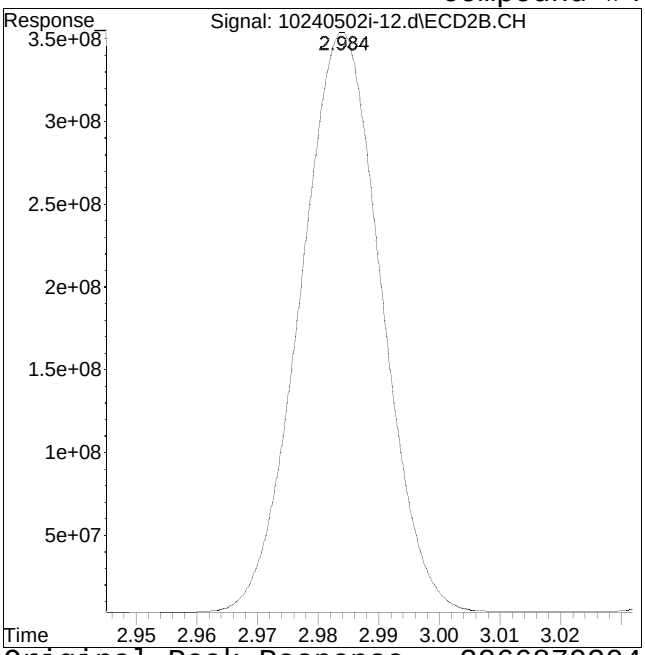
Original Peak Response = 9568571535 Manual Peak Response = 9554508984 M4
M4 = Poor automated baseline construction.

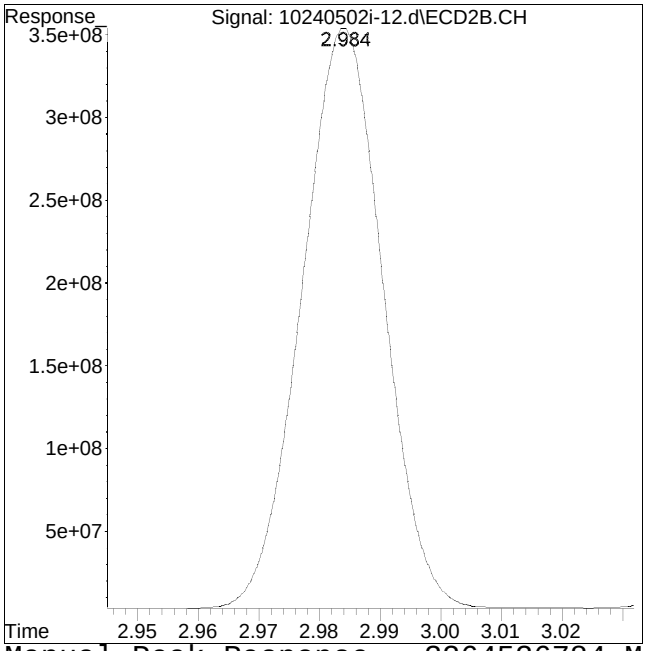
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502Q
Data File : 10240502i-12.d
Date Inj'd : 5/2/2024 5:47 pm
Sample : il11pest,42e,,pp 11397 L0

Method : pest10_2024_05_02_ugL_ic
Operator : PEST10:jag
Instrument : Pest 10
Quant Date : 5/7/2024 5:40 pm

Compound #45: delta-BHC #2



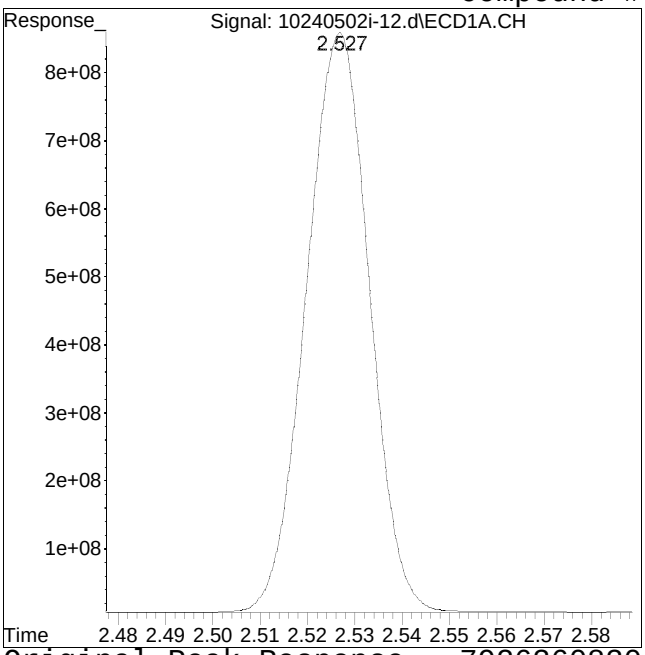


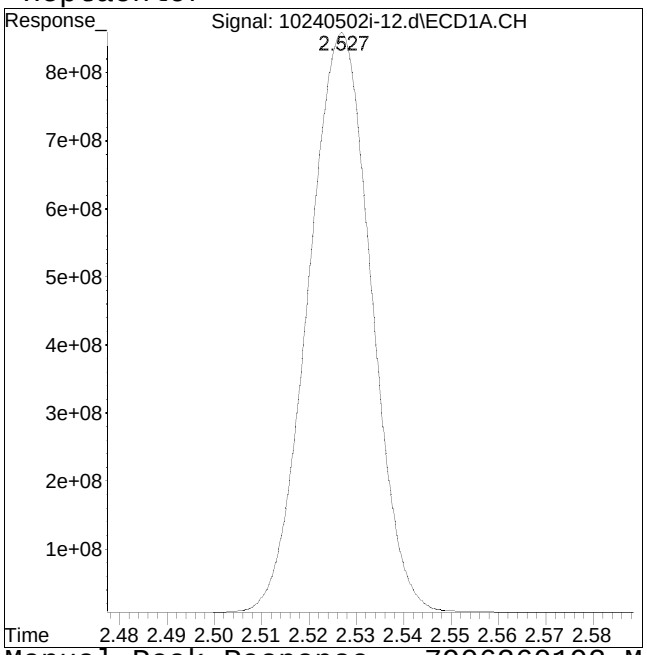
Original Peak Response = 3266879304 Manual Peak Response = 3264536784 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-12.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 5:47 pm Instrument : Pest 10
Sample : il11pest,42e,,pp 11397 L0.Quant Date : 5/7/2024 5:40 pm

Compound #8: Heptachlor





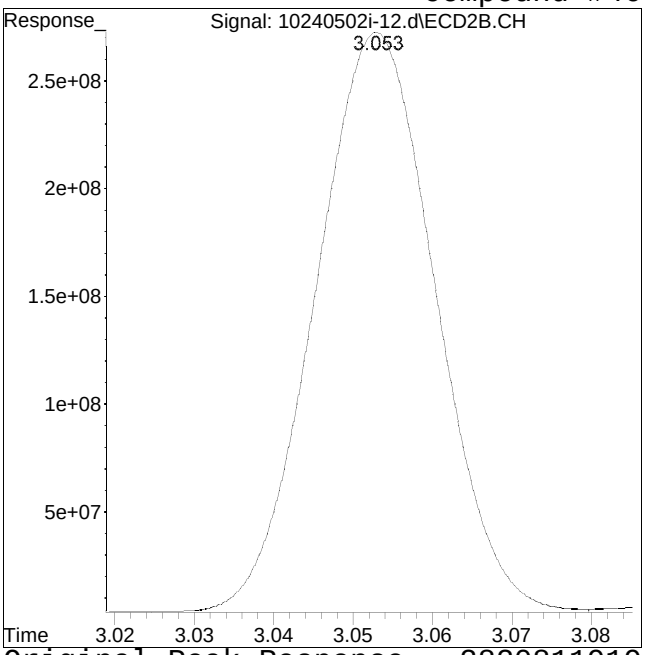
Original Peak Response = 7926360830 Manual Peak Response = 7906260192 M4
M4 = Poor automated baseline construction.

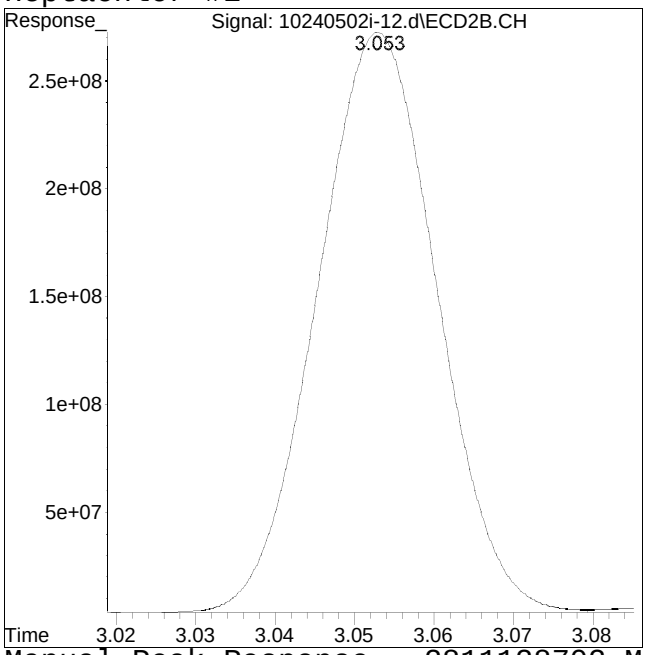
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502Q
Data File : 10240502i-12.d
Date Inj'd : 5/2/2024 5:47 pm
Sample : il11pest,42e,,pp 11397 L0.

Method : pest10_2024_05_02_ugL_ic
Operator : PEST10:jag
Instrument : Pest 10
Quant Date : 5/7/2024 5:40 pm

Compound #46: Heptachlor #2



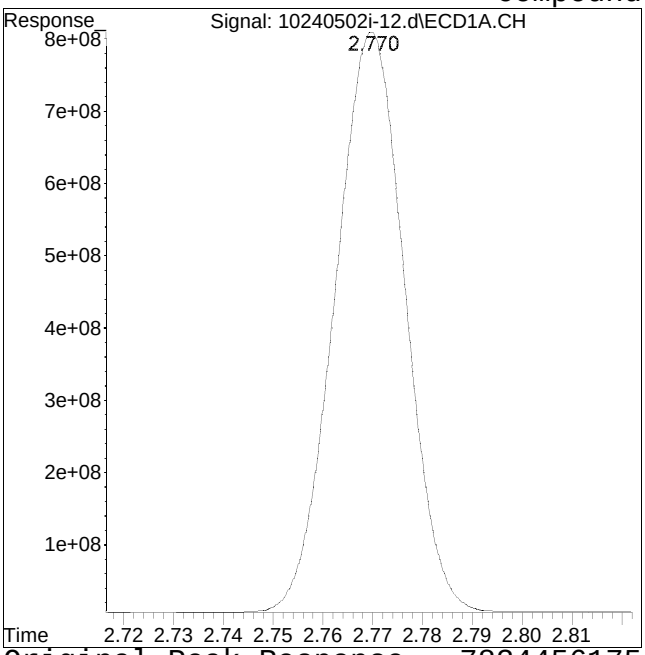


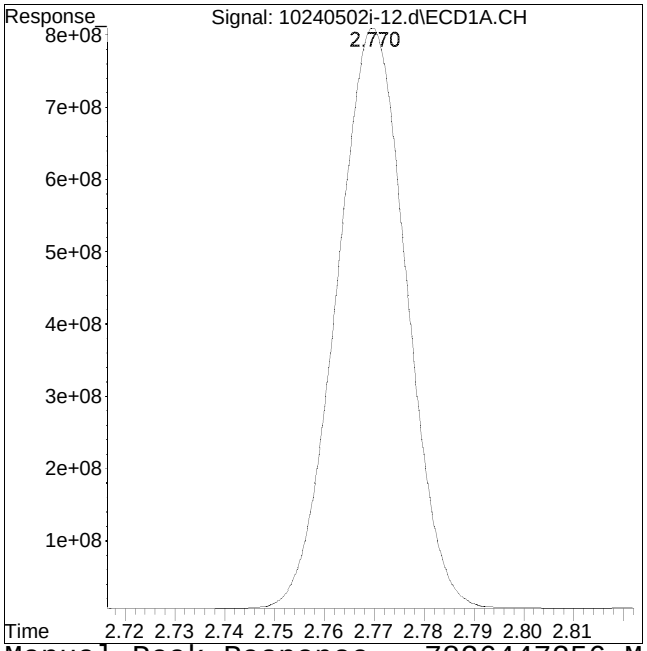
Original Peak Response = 2820811919 Manual Peak Response = 2811128702 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502Q
Data File : 10240502i-12.d
Date Inj'd : 5/2/2024 5:47 pm
Sample : il11pest,42e,,pp 11397 L0.
Method : pest10_2024_05_02_ugL_ic
Operator : PEST10:jag
Instrument : Pest 10
Quant Date : 5/7/2024 5:40 pm

Compound #9: Aldrin





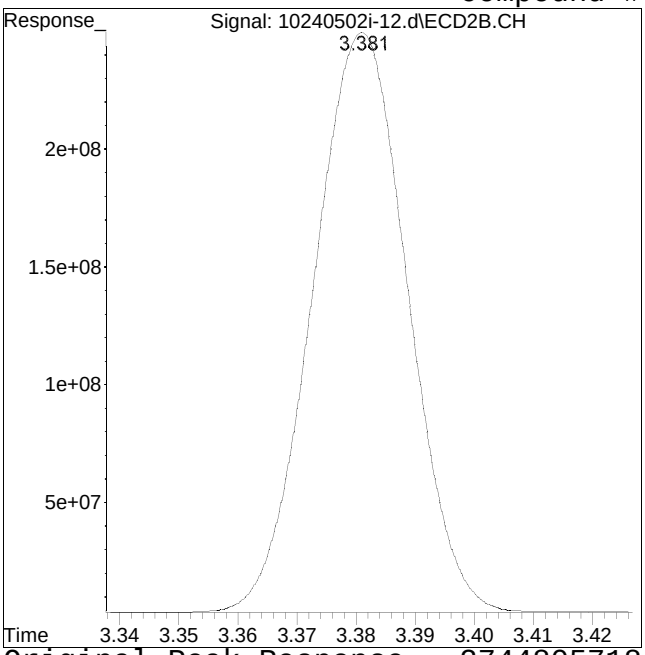
Original Peak Response = 7834456175 Manual Peak Response = 7826447256 M4
M4 = Poor automated baseline construction.

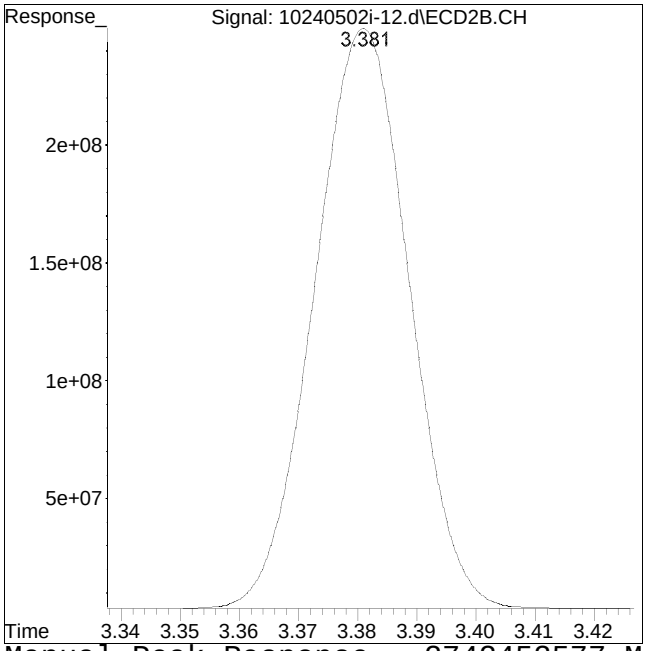
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502Q
Data File : 10240502i-12.d
Date Inj'd : 5/2/2024 5:47 pm
Sample : il11pest,42e,,pp 11397 L0.

Method : pest10_2024_05_02_ugL_ic
Operator : PEST10:jag
Instrument : Pest 10
Quant Date : 5/7/2024 5:40 pm

Compound #47: Aldrin #2



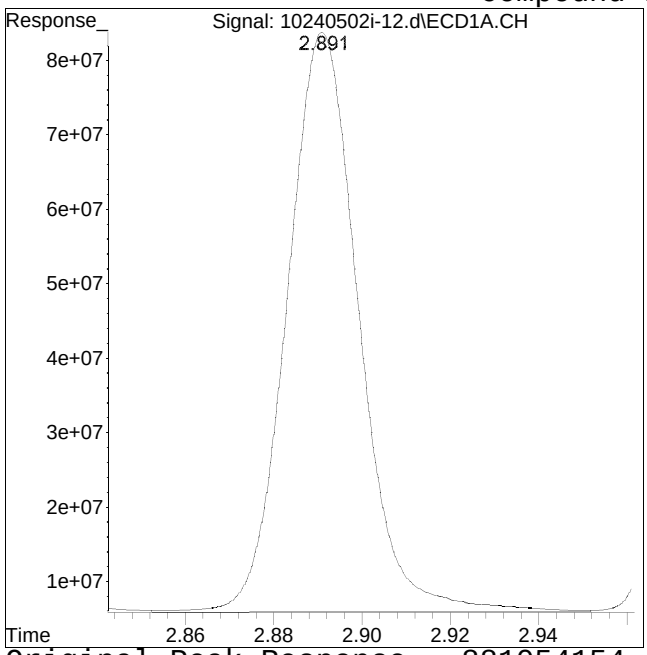


Original Peak Response = 2744805718 Manual Peak Response = 2742452577 M4
M4 = Poor automated baseline construction.

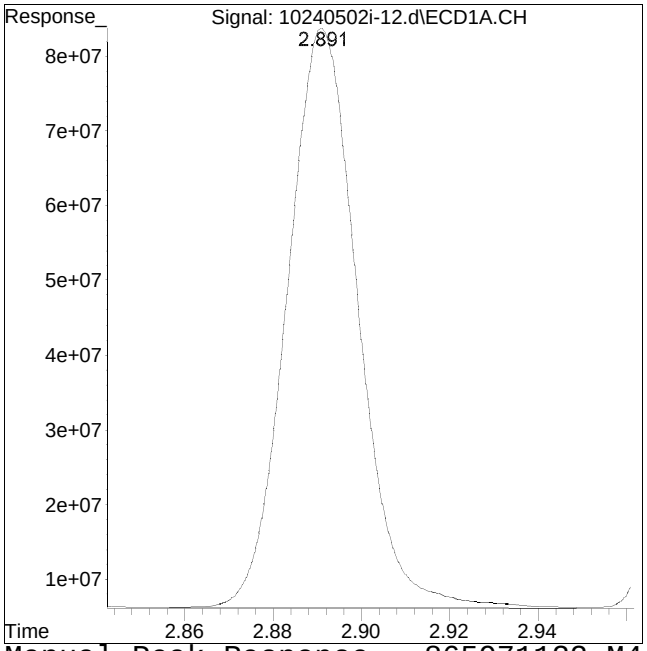
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-12.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 5:47 pm Instrument : Pest 10
Sample : il11pest,42e,,pp 11397 L0.Quant Date : 5/7/2024 5:40 pm

Compound #10: Alachlor



Original Peak Response = 881054154



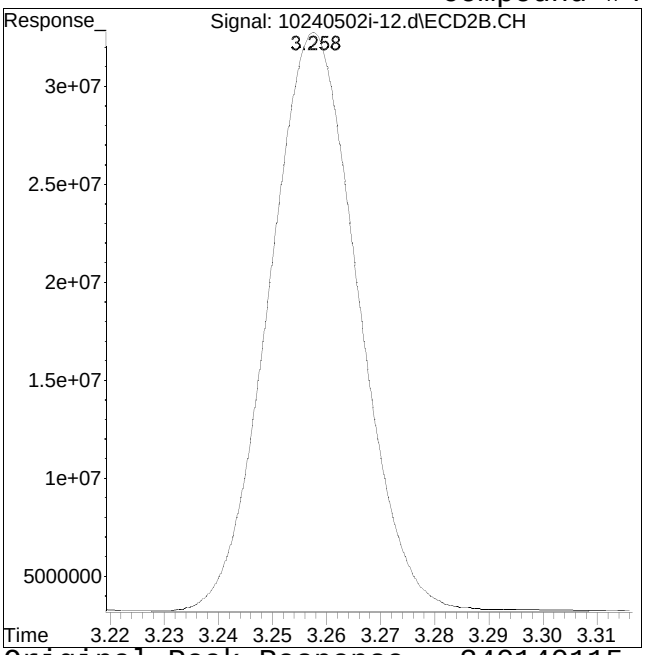
Manual Peak Response = 865971122 M4

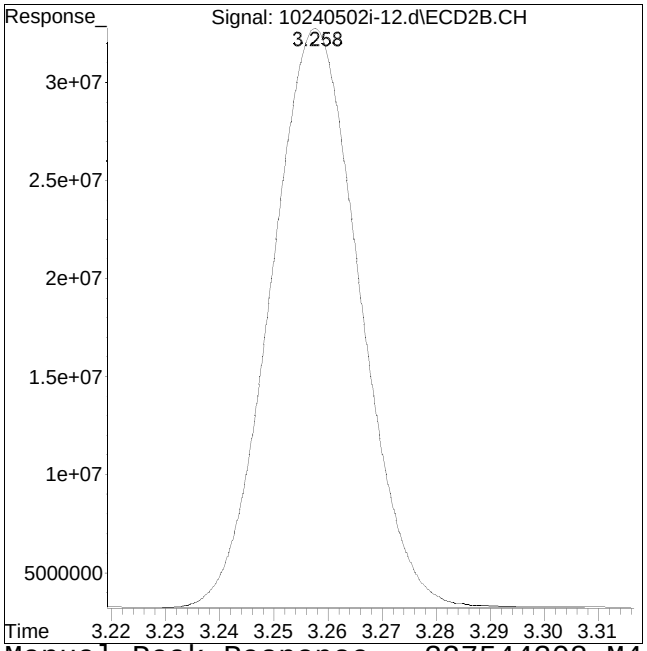
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-12.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 5:47 pm Instrument : Pest 10
Sample : il11pest,42e,,pp 11397 L0.Quant Date : 5/7/2024 5:40 pm

Compound #48: Alachlor #2



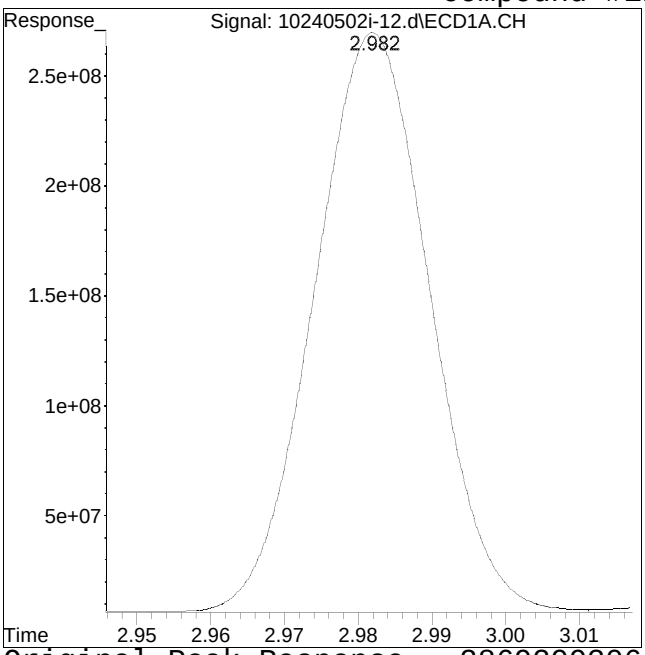


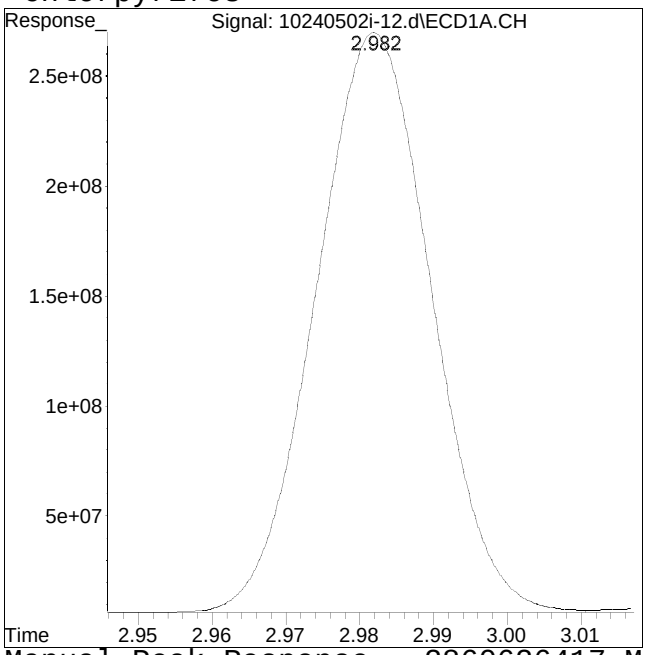
Original Peak Response = 340140115 Manual Peak Response = 337544308 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-12.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 5:47 pm Instrument : Pest 10
Sample : il11pest,42e,,pp 11397 L0.Quant Date : 5/7/2024 5:40 pm

Compound #11: Chlorpyrifos



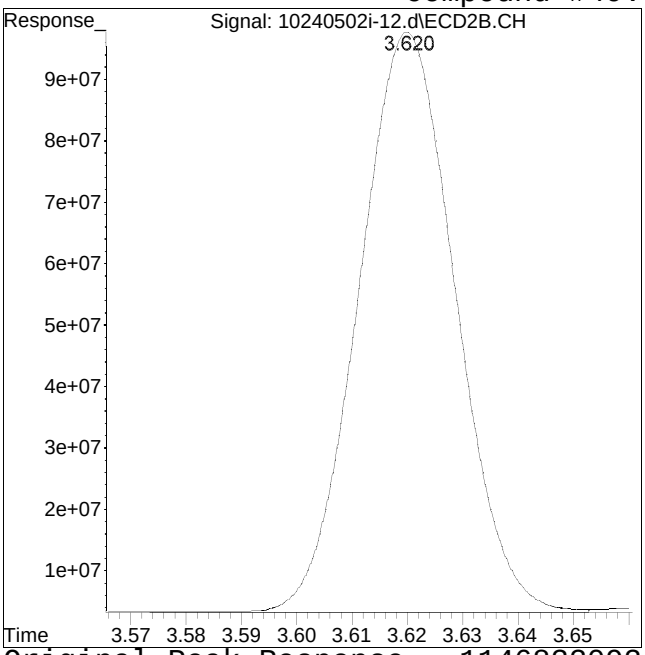


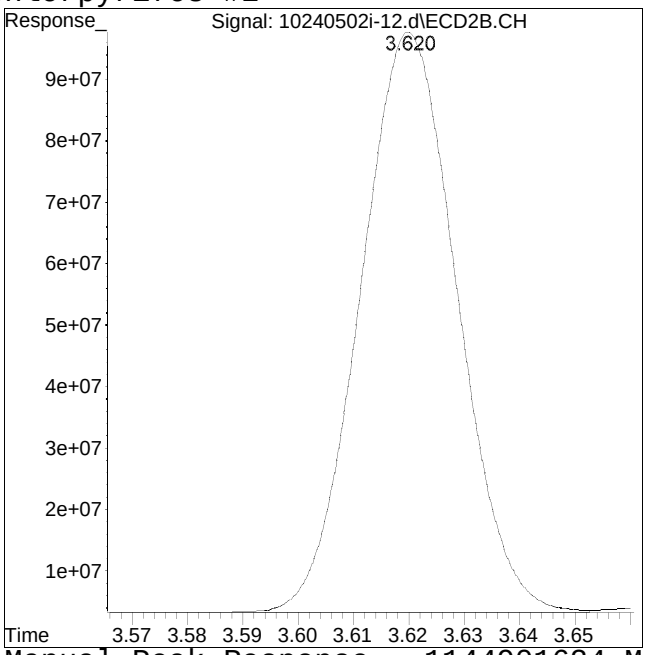
Original Peak Response = 2869299306 Manual Peak Response = 2860626417 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-12.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 5:47 pm Instrument : Pest 10
Sample : il11pest,42e,,pp 11397 L0.Quant Date : 5/7/2024 5:40 pm

Compound #49: Chlorpyrifos #2



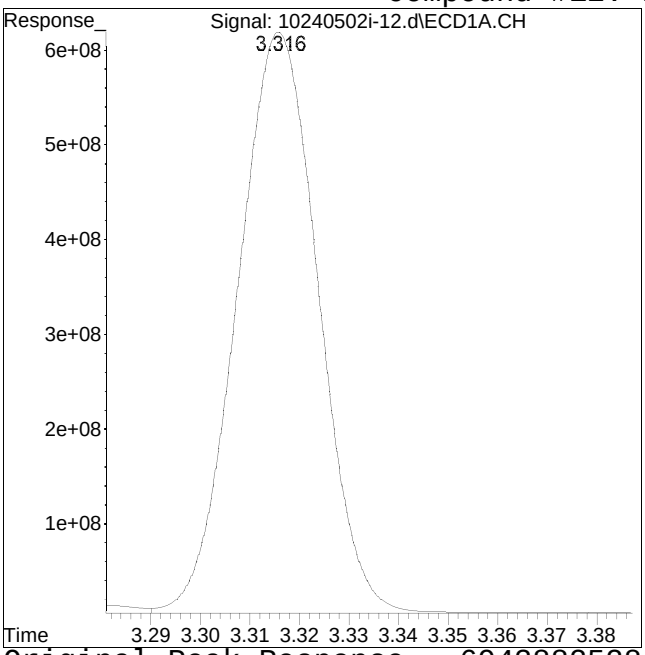


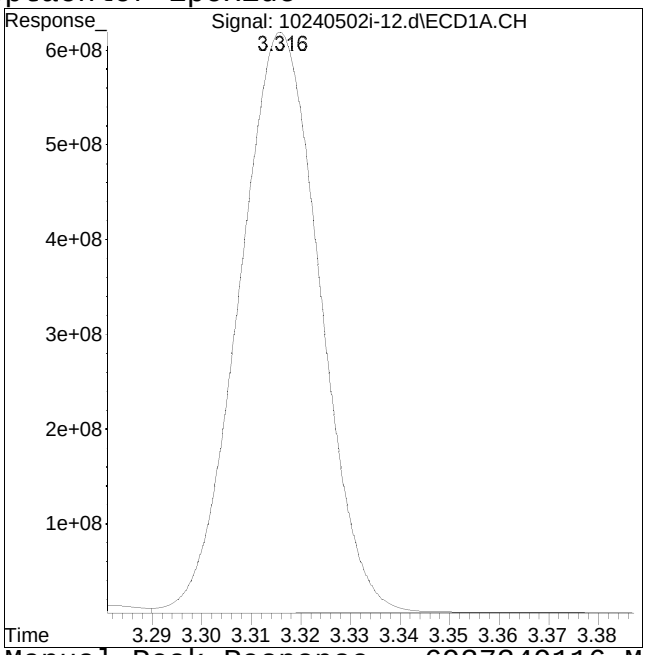
Original Peak Response = 1146833093 Manual Peak Response = 1144901624 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-12.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 5:47 pm Instrument : Pest 10
Sample : il11pest,42e,,pp 11397 L0.Quant Date : 5/7/2024 5:40 pm

Compound #12: Heptachlor Epoxide





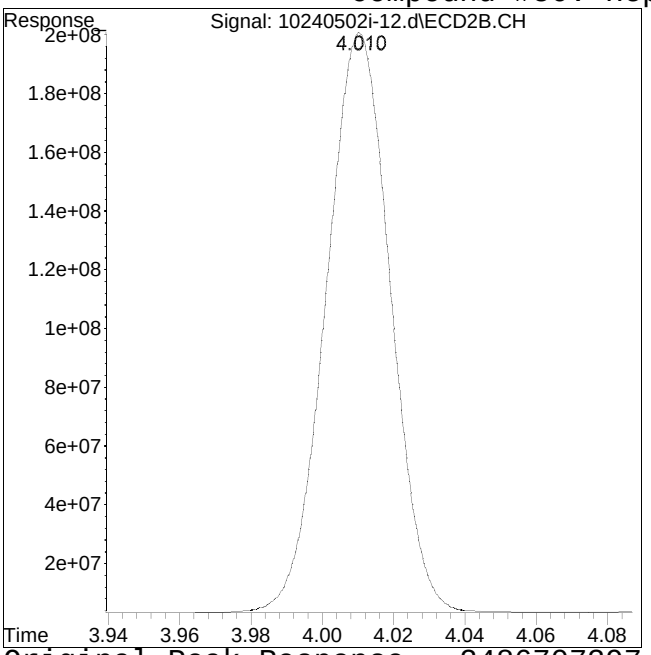
Original Peak Response = 6943882528 Manual Peak Response = 6937349116 M4
M4 = Poor automated baseline construction.

Manual Integration Report

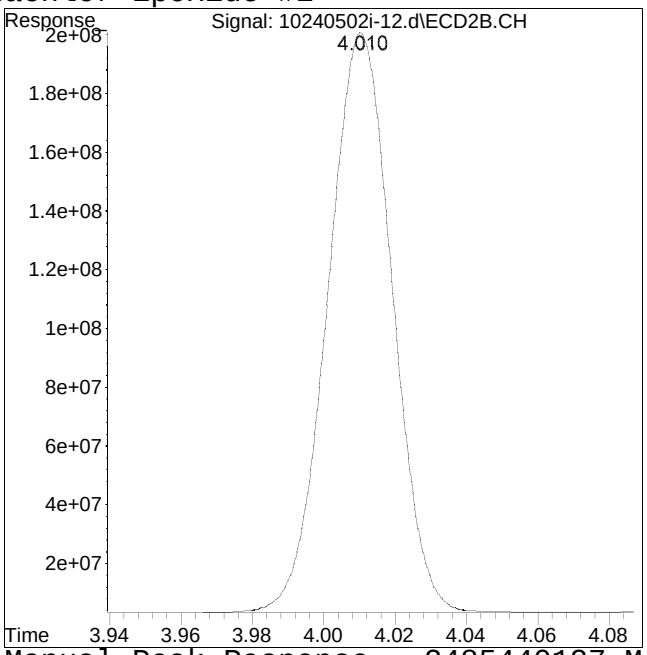
Data Path : I:\PEST\Pest10\2024\240502Q
Data File : 10240502i-12.d
Date Inj'd : 5/2/2024 5:47 pm
Sample : il11pest,42e,,pp 11397 L0.

Method : pest10_2024_05_02_ugL_ic
Operator : PEST10:jag
Instrument : Pest 10
Quant Date : 5/7/2024 5:40 pm

Compound #50: Heptachlor Epoxide #2



Original Peak Response = 2486707397



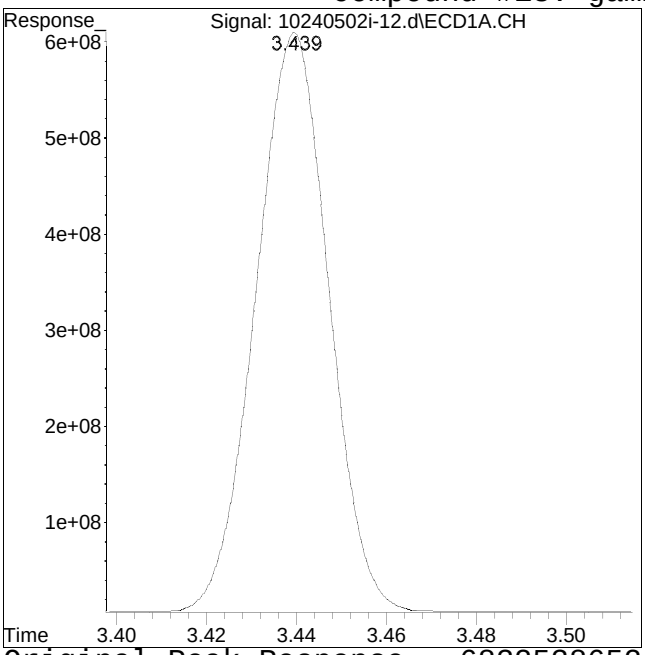
Manual Peak Response = 2485440127 M4

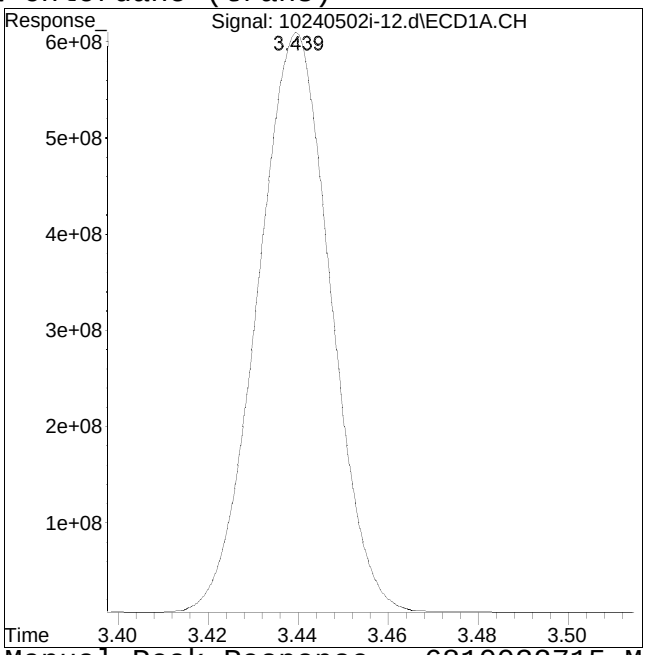
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-12.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 5:47 pm Instrument : Pest 10
Sample : il11pest,42e,,pp 11397 L0.Quant Date : 5/7/2024 5:40 pm

Compound #13: gamma-Chlordane (trans)



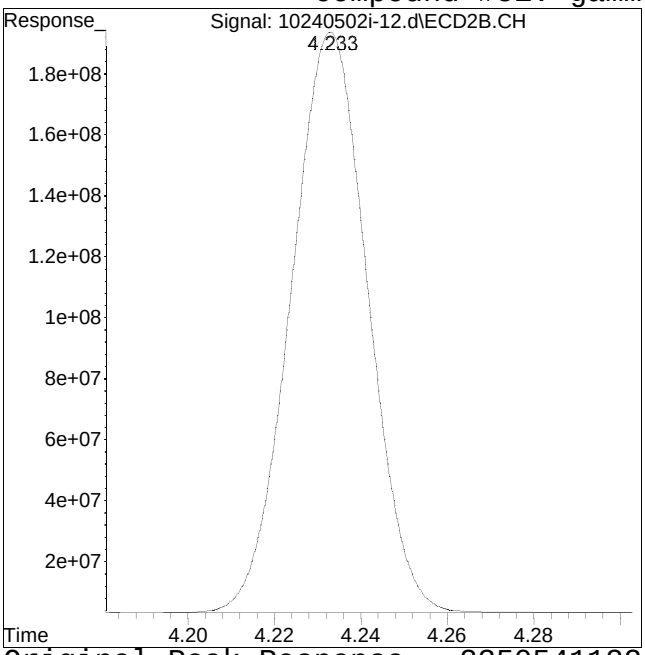


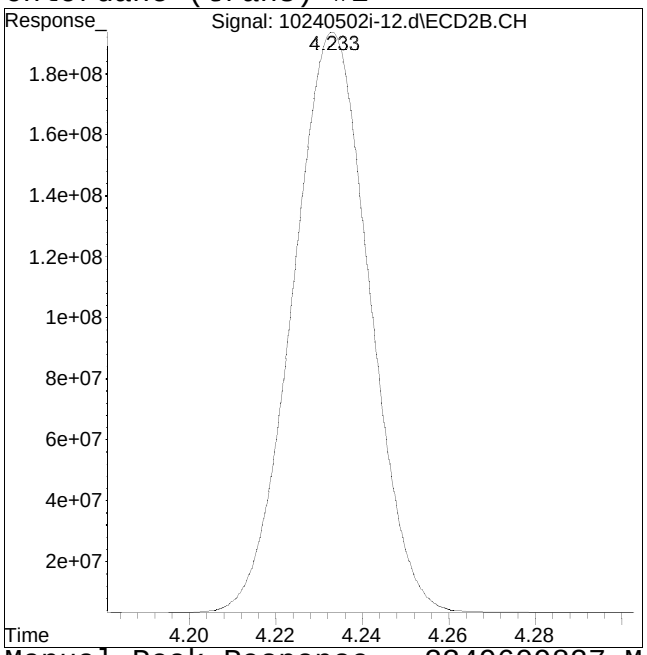
Original Peak Response = 6832538652 Manual Peak Response = 6810032715 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-12.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 5:47 pm Instrument : Pest 10
Sample : il11pest,42e,,pp 11397 L0.Quant Date : 5/7/2024 5:40 pm

Compound #51: gamma-Chlordane (trans) #2



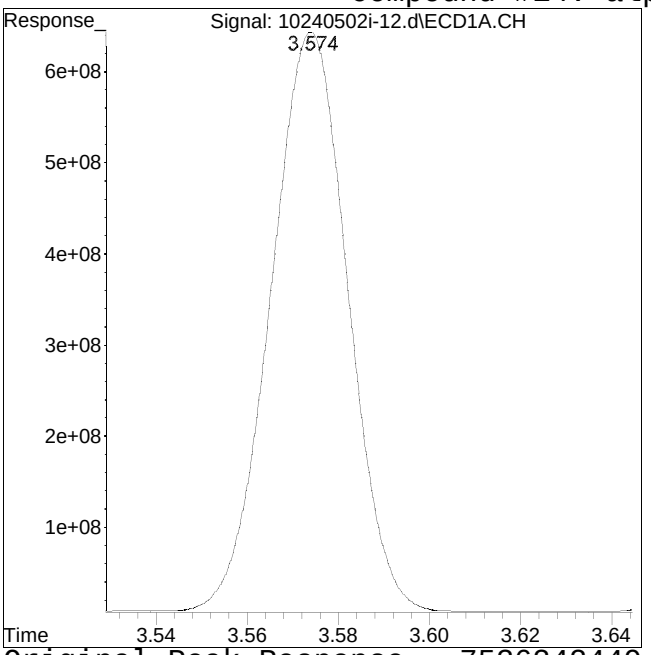


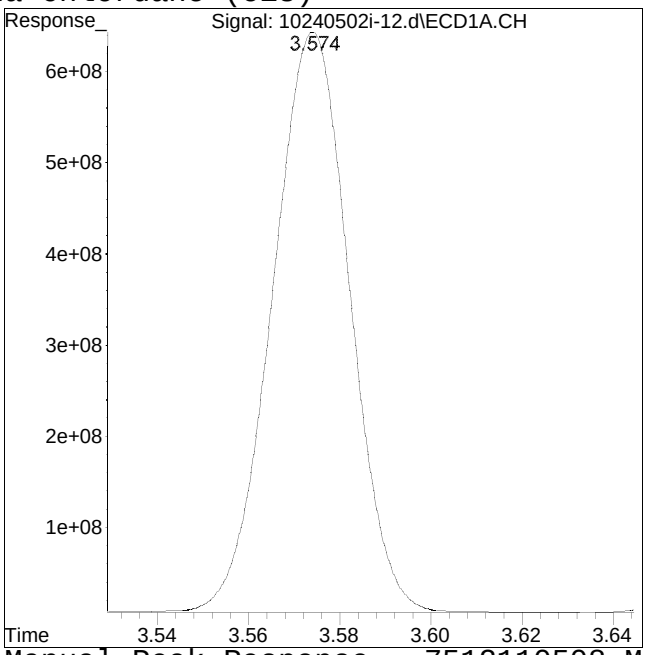
Original Peak Response = 2350541122 Manual Peak Response = 2349609827 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-12.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 5:47 pm Instrument : Pest 10
Sample : il11pest,42e,,pp 11397 L0.Quant Date : 5/7/2024 5:40 pm

Compound #14: alpha-Chlordane (cis)



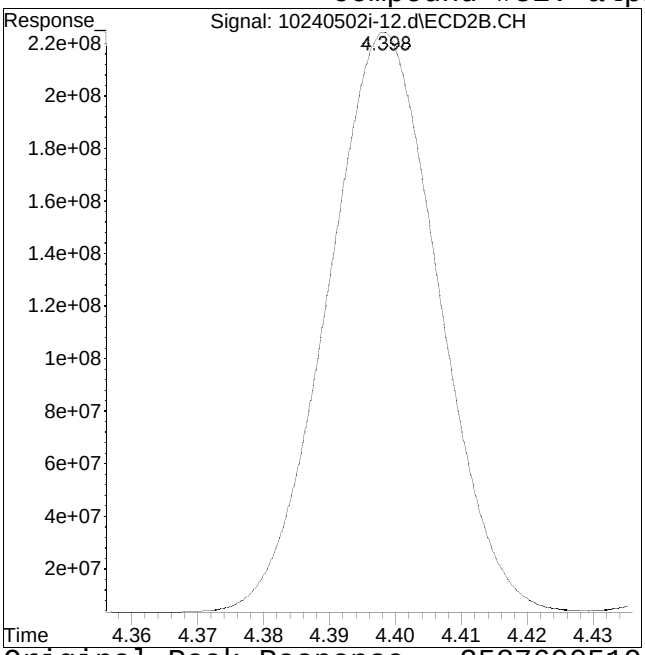


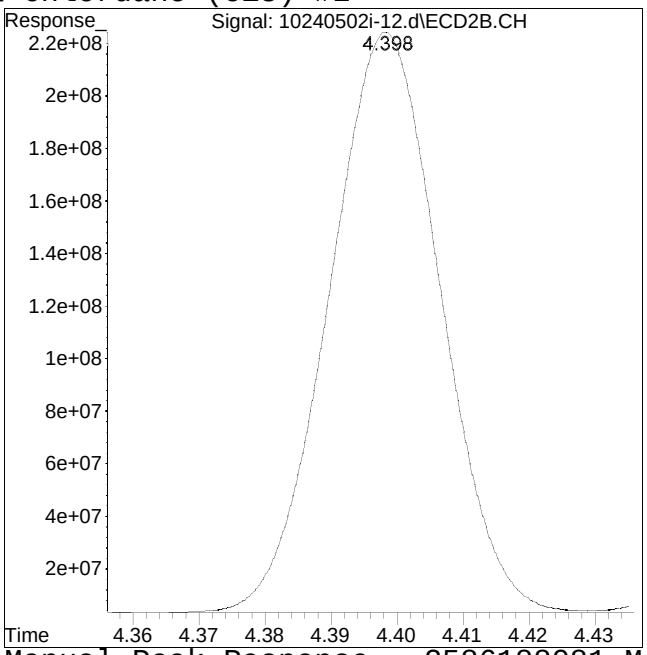
Original Peak Response = 7536242449 Manual Peak Response = 7512110508 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-12.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 5:47 pm Instrument : Pest 10
Sample : il11pest,42e,,pp 11397 L0.Quant Date : 5/7/2024 5:40 pm

Compound #52: alpha-Chlordane (cis) #2



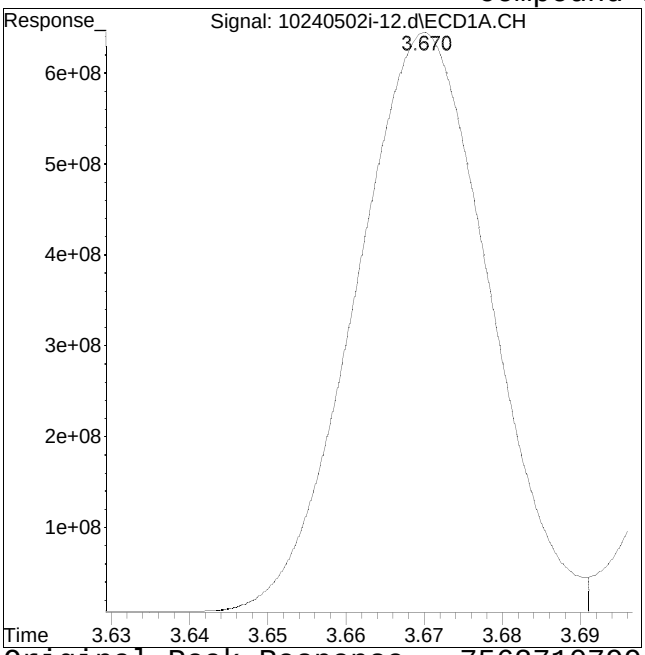


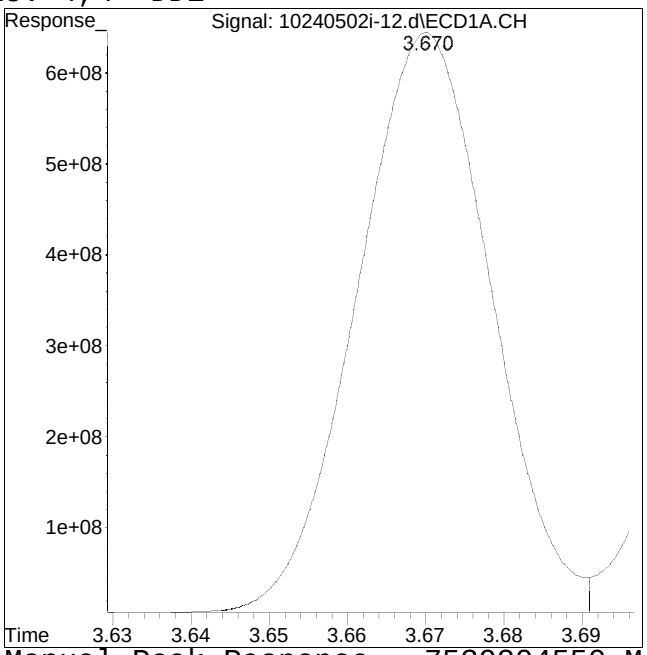
Original Peak Response = 2587690519 Manual Peak Response = 2586188081 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502Q
Data File : 10240502i-12.d
Date Inj'd : 5/2/2024 5:47 pm
Sample : il11pest,42e,,pp 11397 L0.
Method : pest10_2024_05_02_ugL_ic
Operator : PEST10:jag
Instrument : Pest 10
Quant Date : 5/7/2024 5:40 pm

Compound #15: 4,4'-DDE



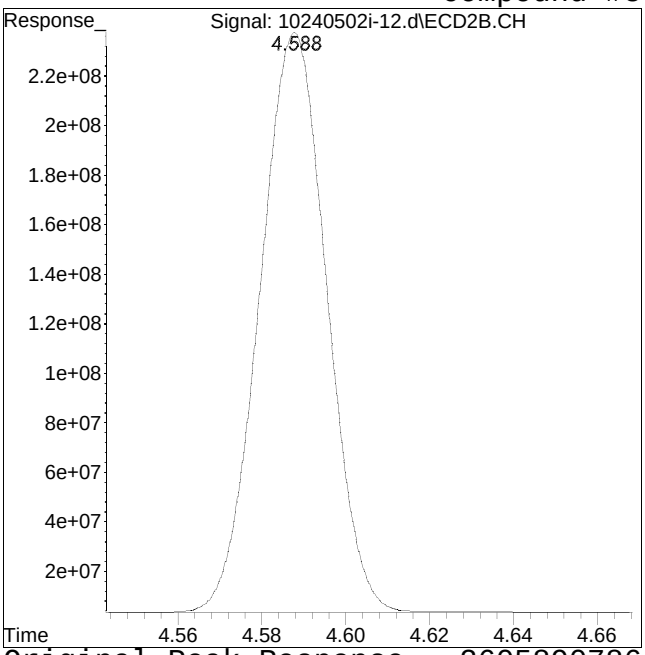


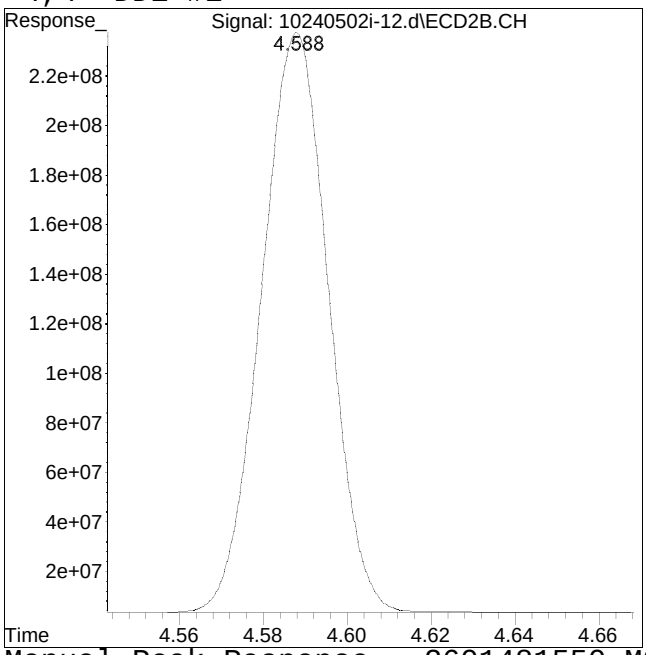
Original Peak Response = 7562710799 Manual Peak Response = 7539204550 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-12.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 5:47 pm Instrument : Pest 10
Sample : il11pest,42e,,pp 11397 L0.Quant Date : 5/7/2024 5:40 pm

Compound #53: 4,4'-DDE #2



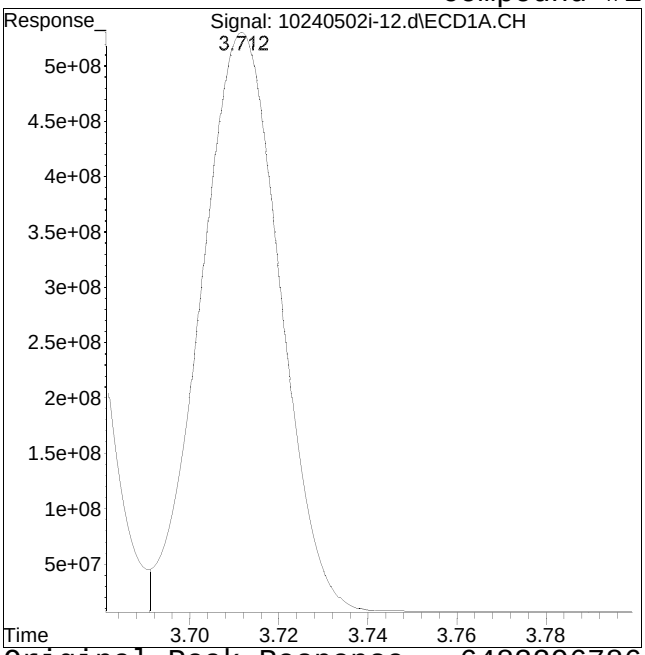


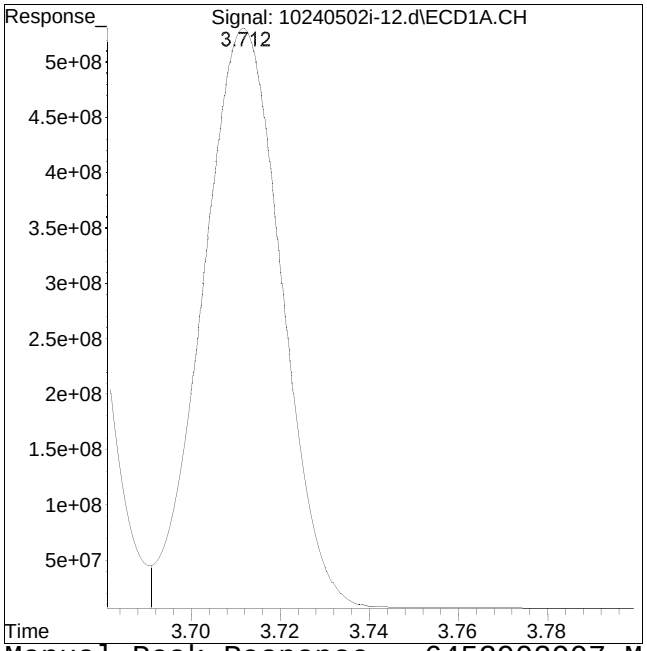
Original Peak Response = 2605890786 Manual Peak Response = 2601481550 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-12.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 5:47 pm Instrument : Pest 10
Sample : il11pest,42e,,pp 11397 L0.Quant Date : 5/7/2024 5:40 pm

Compound #16: Endosulfan I



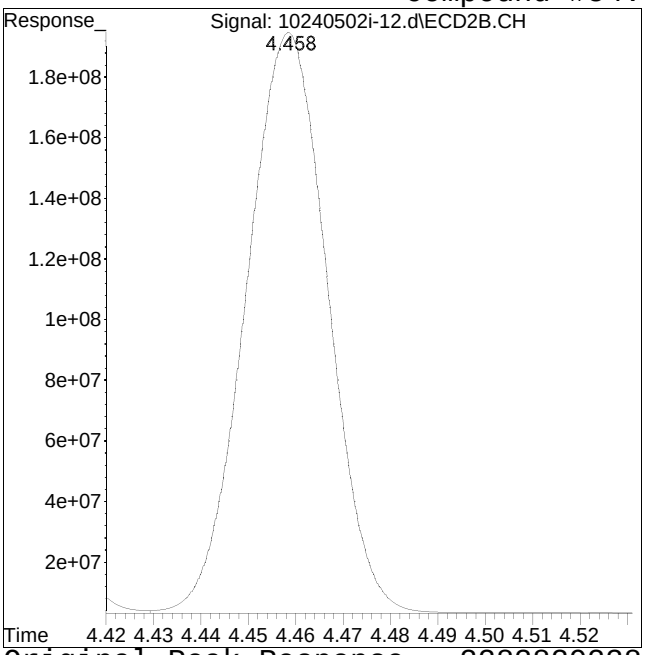


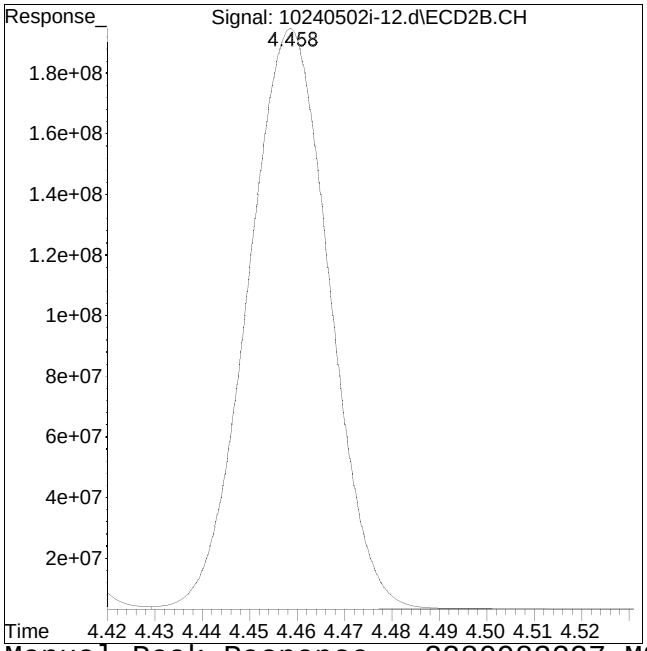
Original Peak Response = 6483296786 Manual Peak Response = 6453902907 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-12.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 5:47 pm Instrument : Pest 10
Sample : il11pest,42e,,pp 11397 L0.Quant Date : 5/7/2024 5:40 pm

Compound #54: Endosulfan I #2



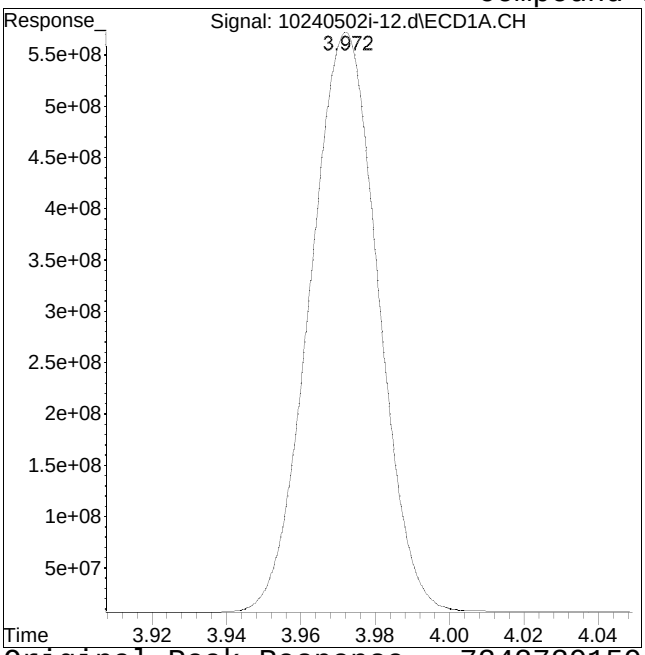


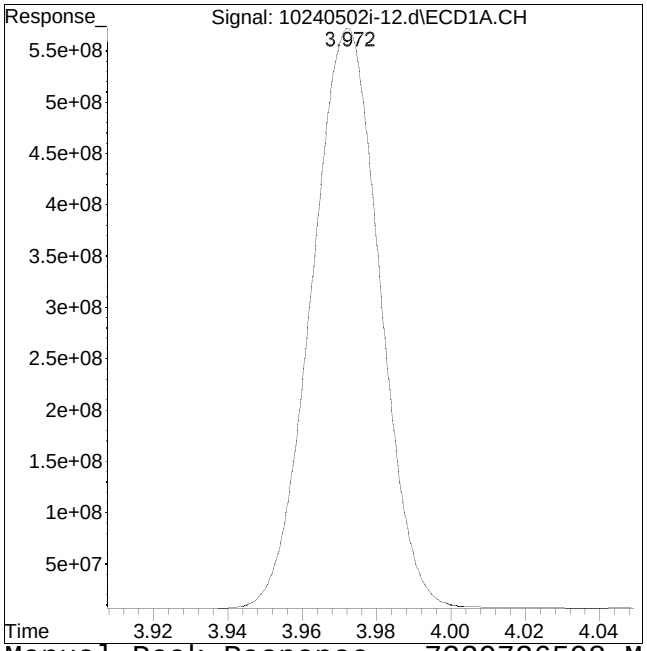
Original Peak Response = 2283829238 Manual Peak Response = 2280983227 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-12.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 5:47 pm Instrument : Pest 10
Sample : il11pest,42e,,pp 11397 L0.Quant Date : 5/7/2024 5:40 pm

Compound #17: Dieldrin



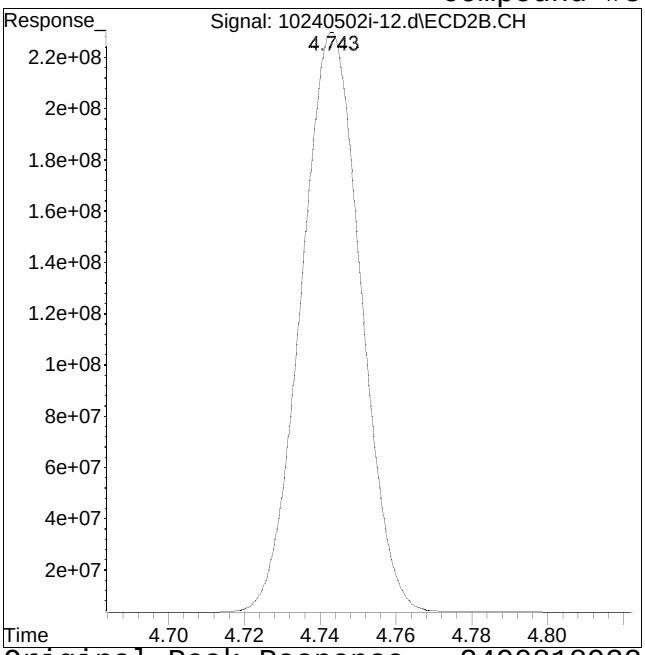


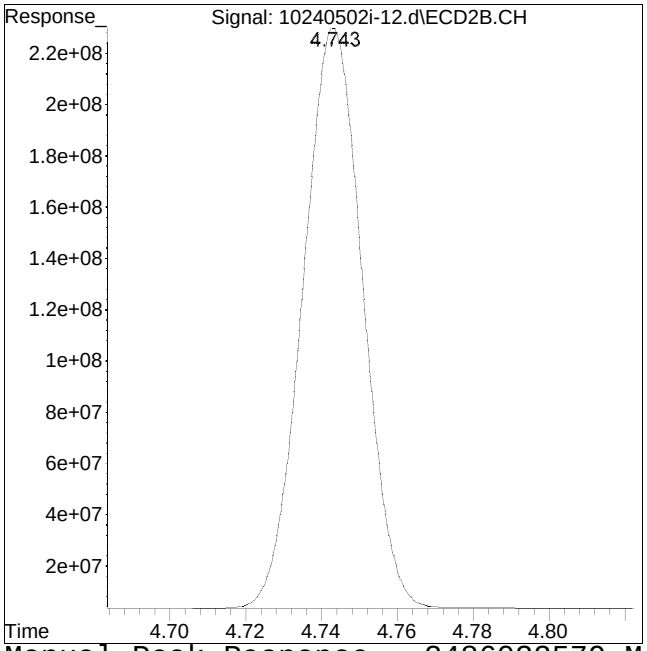
Original Peak Response = 7242729159 Manual Peak Response = 7229726598 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-12.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 5:47 pm Instrument : Pest 10
Sample : il11pest,42e,,pp 11397 L0.Quant Date : 5/7/2024 5:40 pm

Compound #55: Dieldrin #2



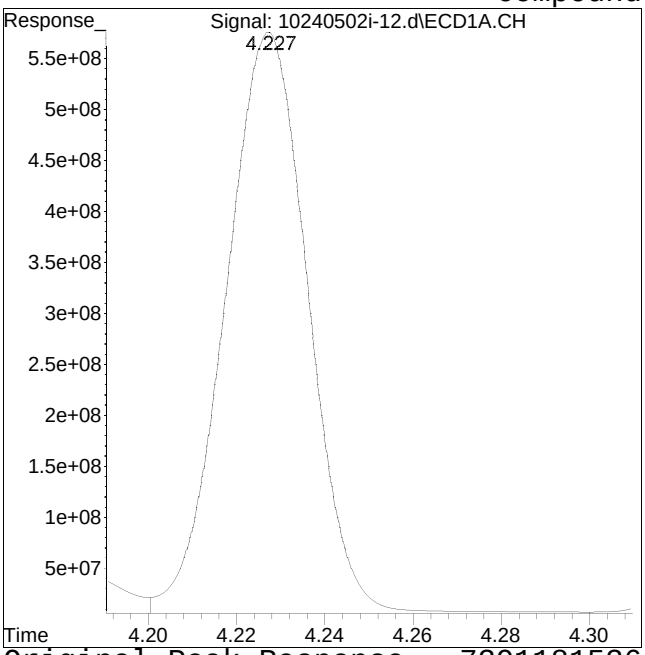


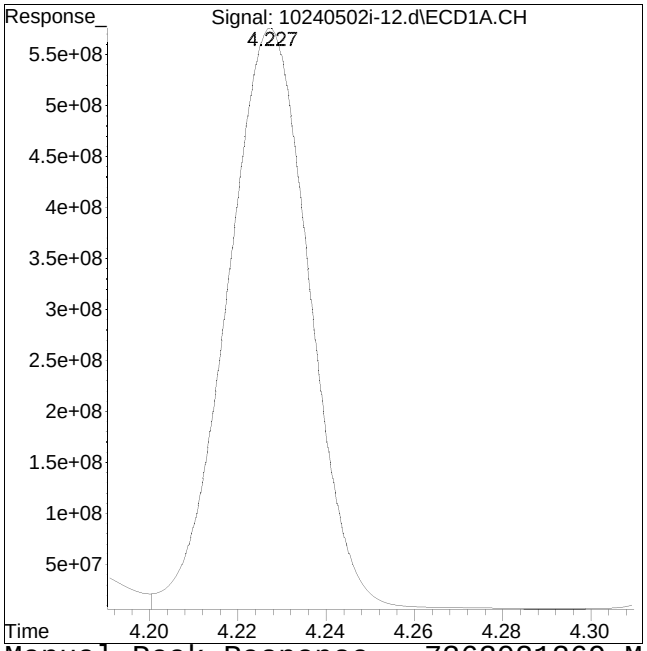
Original Peak Response = 2490818932 Manual Peak Response = 2486032579 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-12.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 5:47 pm Instrument : Pest 10
Sample : il11pest,42e,,pp 11397 L0.Quant Date : 5/7/2024 5:40 pm

Compound #18: Endrin



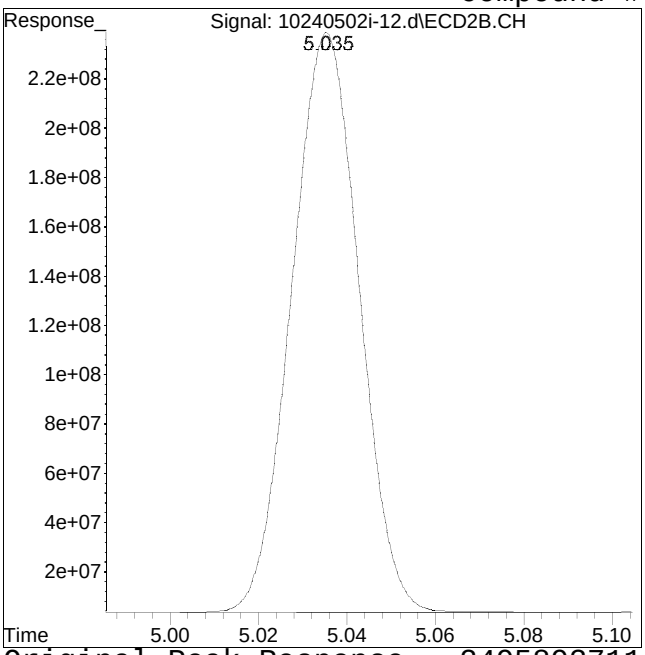


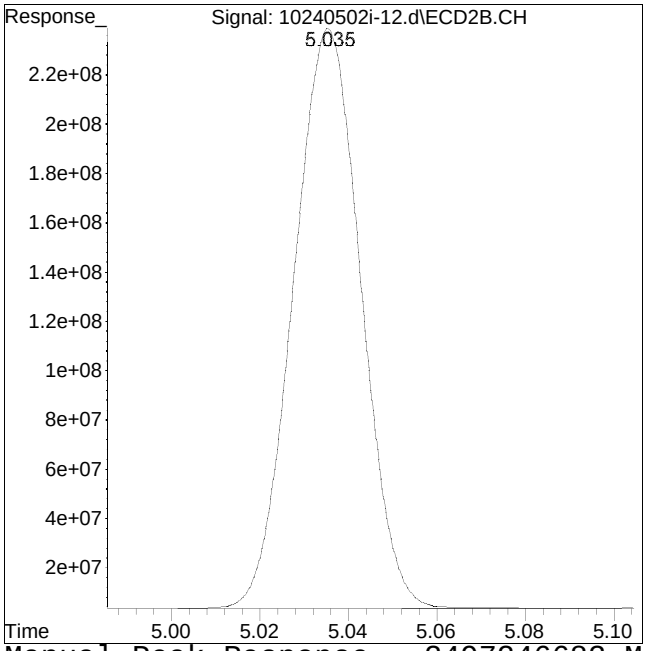
Original Peak Response = 7391181536 Manual Peak Response = 7363021269 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-12.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 5:47 pm Instrument : Pest 10
Sample : il11pest,42e,,pp 11397 L0.Quant Date : 5/7/2024 5:40 pm

Compound #56: Endrin #2



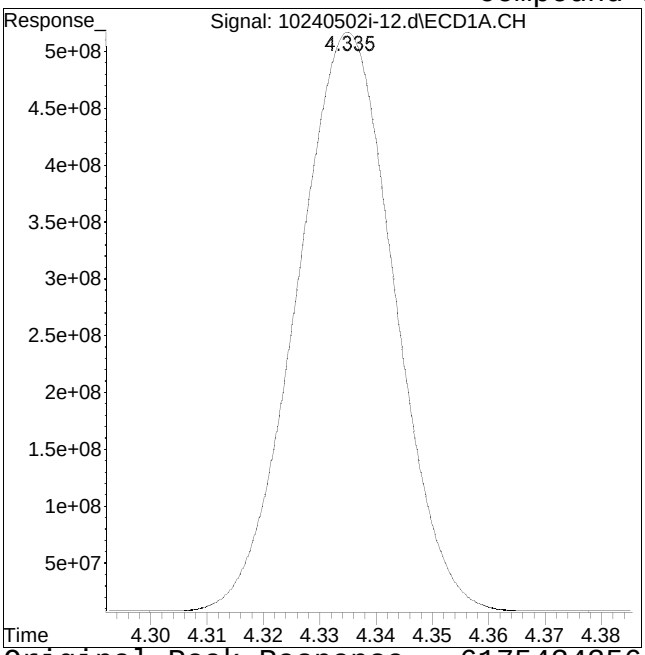


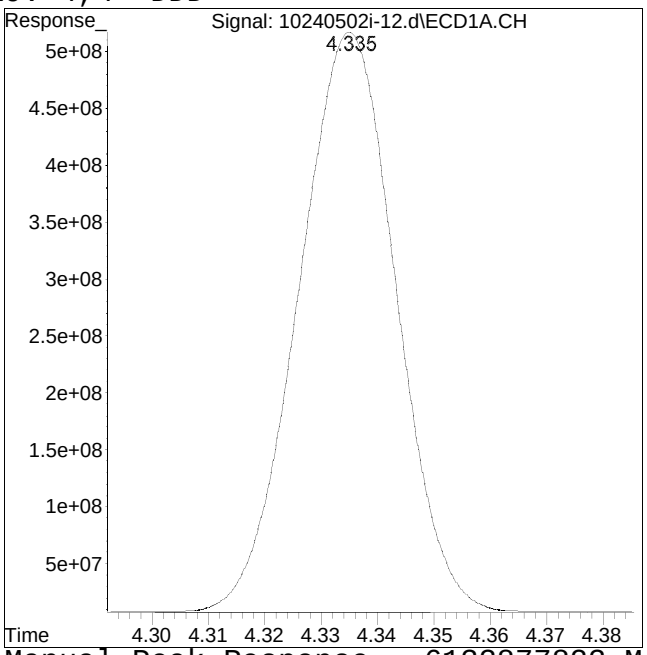
Original Peak Response = 2495893711 Manual Peak Response = 2497246683 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-12.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 5:47 pm Instrument : Pest 10
Sample : il11pest,42e,,pp 11397 L0.Quant Date : 5/7/2024 5:40 pm

Compound #19: 4,4'-DDD



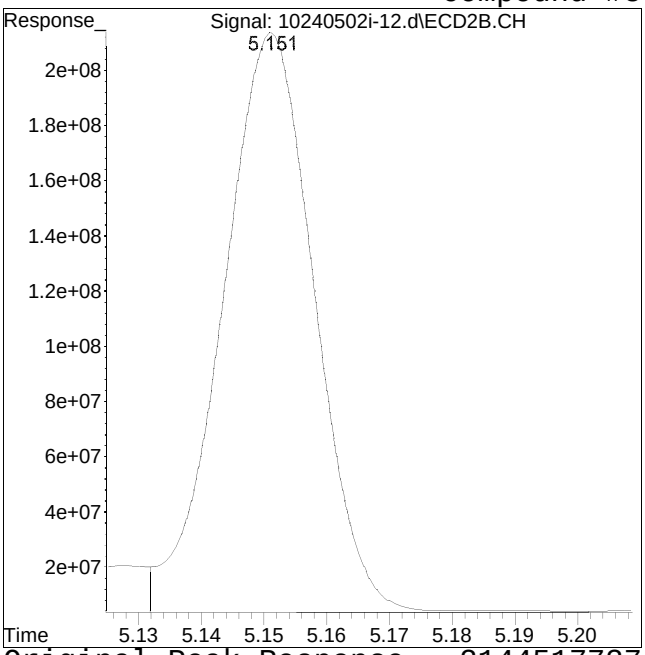


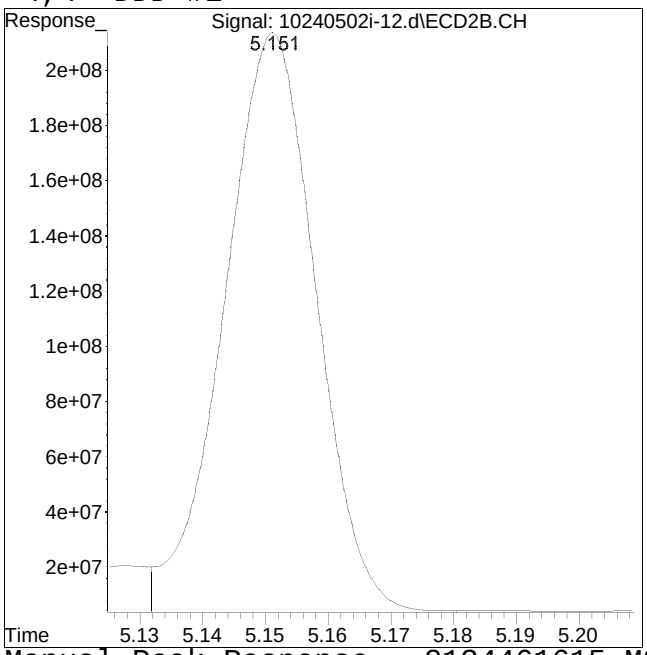
Original Peak Response = 6175434356 Manual Peak Response = 6133877823 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-12.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 5:47 pm Instrument : Pest 10
Sample : il11pest,42e,,pp 11397 L0.Quant Date : 5/7/2024 5:40 pm

Compound #57: 4,4'-DDD #2





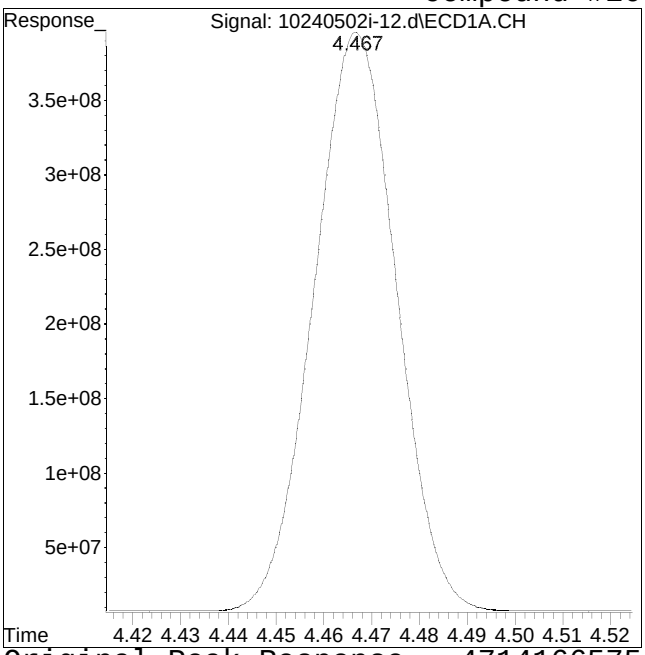
Original Peak Response = 2144517737 Manual Peak Response = 2134461615 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

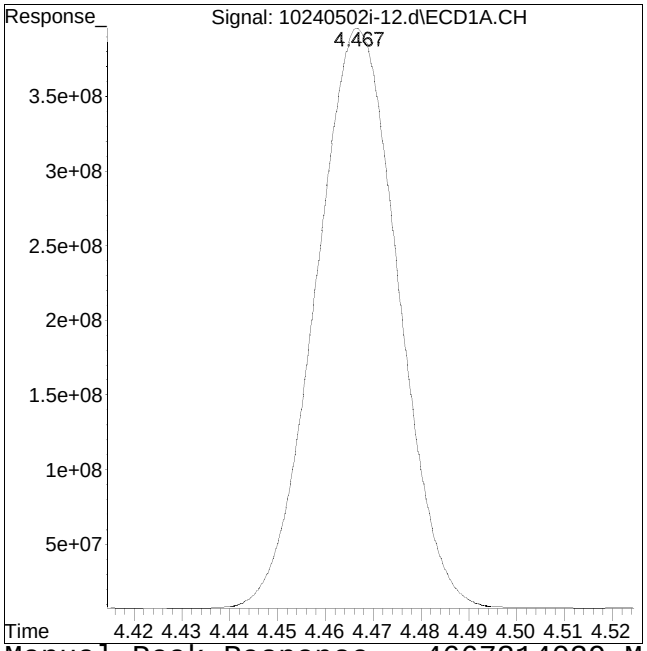
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502Q
Data File : 10240502i-12.d
Date Inj'd : 5/2/2024 5:47 pm
Sample : il11pest,42e,,pp 11397 L0.

Method : pest10_2024_05_02_ugL_ic
Operator : PEST10:jag
Instrument : Pest 10
Quant Date : 5/7/2024 5:40 pm

Compound #20: Endosulfan II



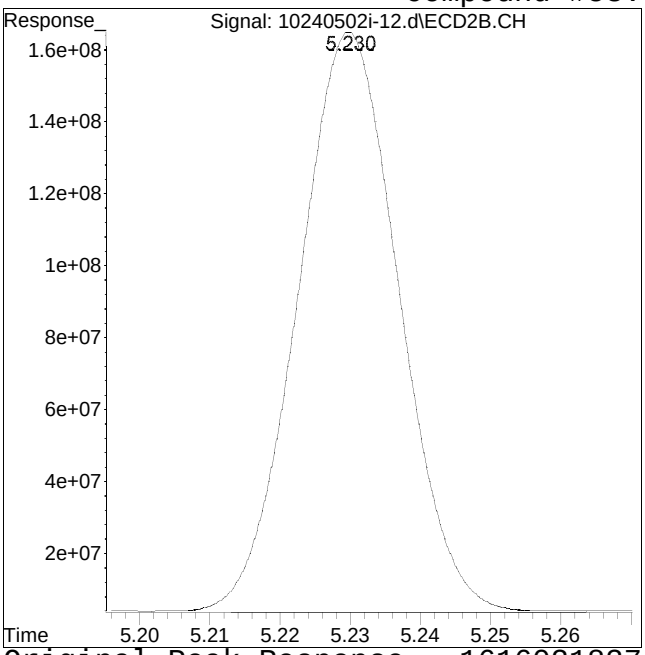


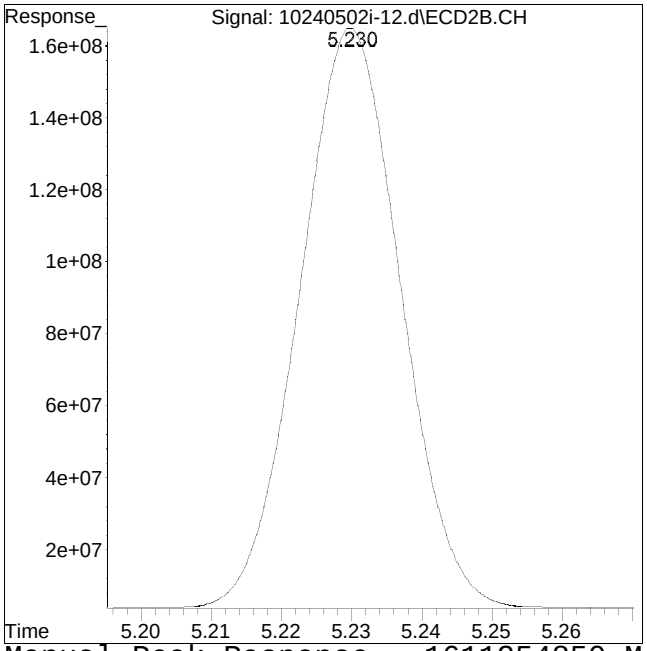
Original Peak Response = 4714166575 Manual Peak Response = 4667314039 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-12.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 5:47 pm Instrument : Pest 10
Sample : il11pest,42e,,pp 11397 L0.Quant Date : 5/7/2024 5:40 pm

Compound #58: Endosulfan II #2



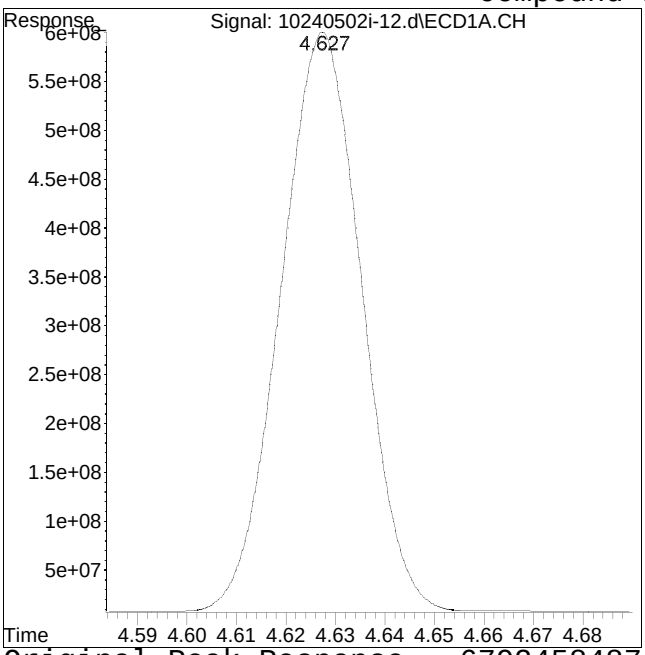


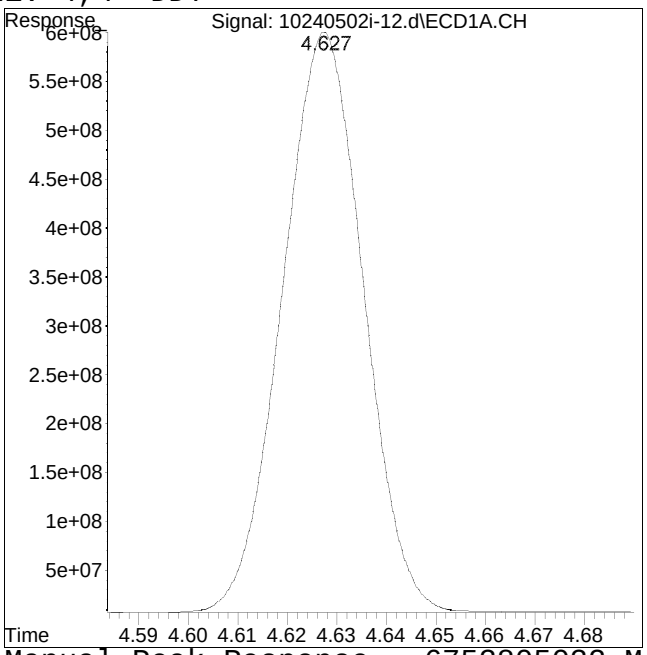
Original Peak Response = 1616021837 Manual Peak Response = 1611254850 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-12.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 5:47 pm Instrument : Pest 10
Sample : il11pest,42e,,pp 11397 L0.Quant Date : 5/7/2024 5:40 pm

Compound #21: 4,4'-DDT



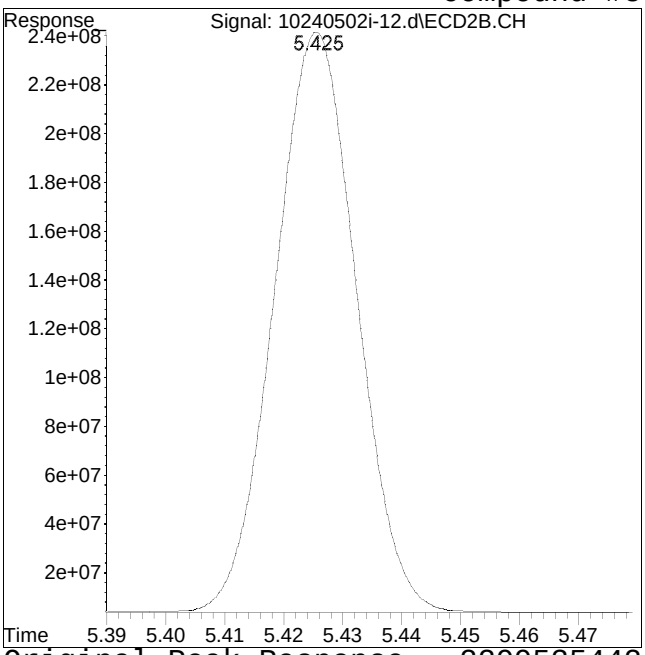


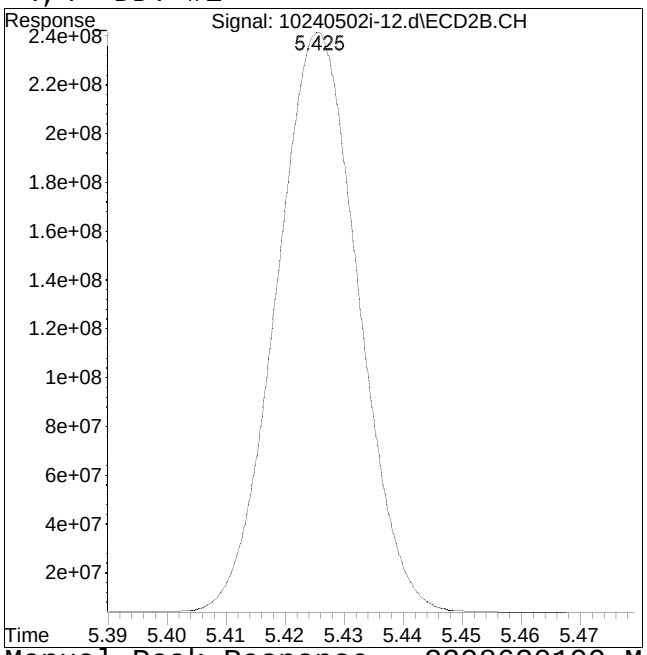
Original Peak Response = 6792458487 Manual Peak Response = 6753805032 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-12.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 5:47 pm Instrument : Pest 10
Sample : il11pest,42e,,pp 11397 L0.Quant Date : 5/7/2024 5:40 pm

Compound #59: 4,4'-DDT #2



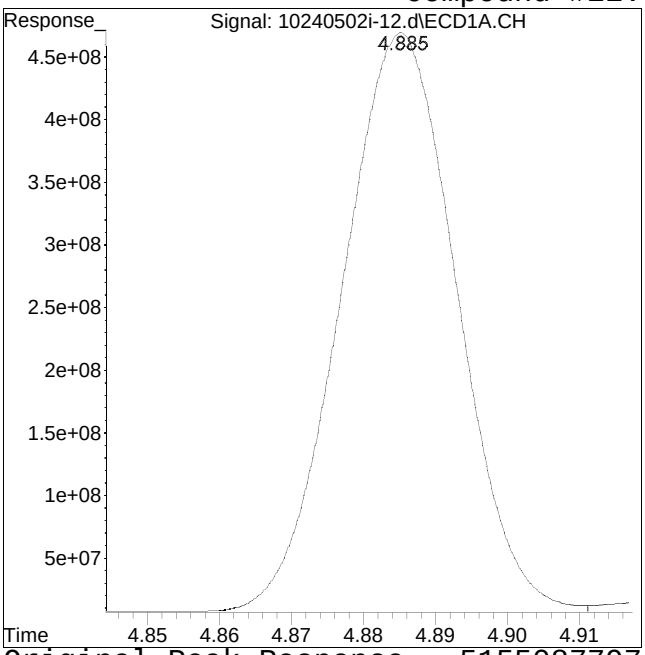


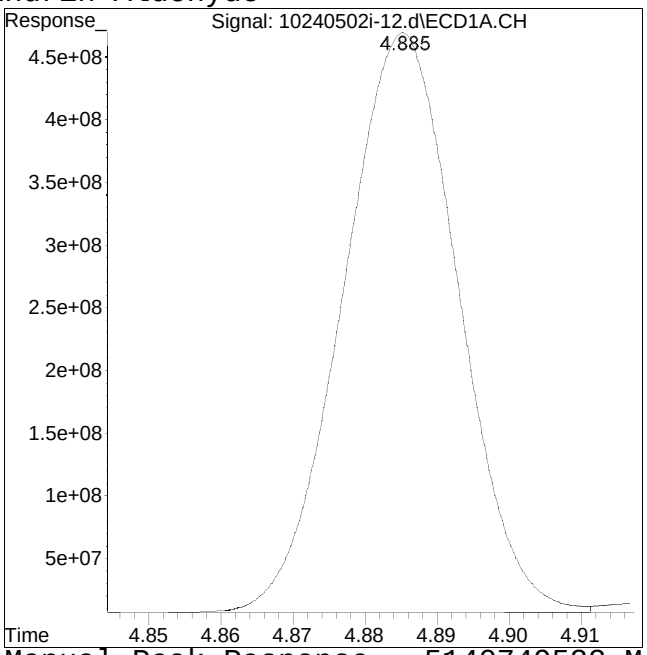
Original Peak Response = 2299535442 Manual Peak Response = 2298630199 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-12.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 5:47 pm Instrument : Pest 10
Sample : il11pest,42e,,pp 11397 L0.Quant Date : 5/7/2024 5:40 pm

Compound #22: Endrin Aldehyde



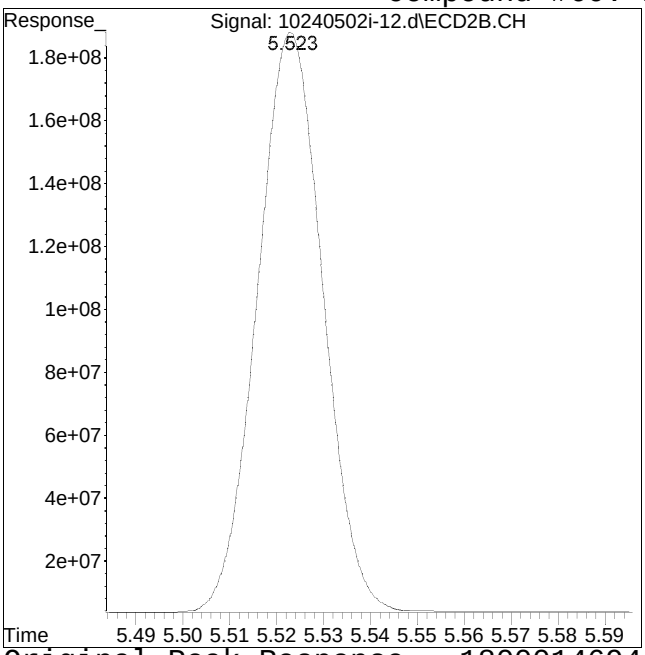


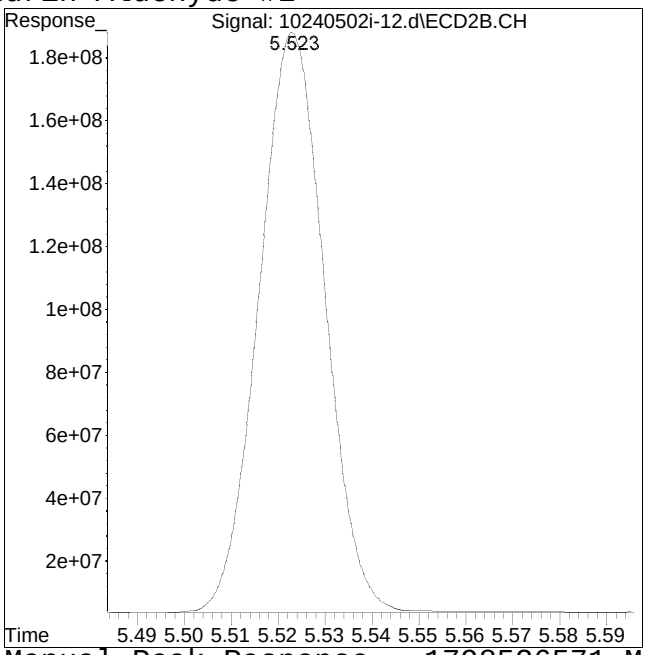
Original Peak Response = 5155087797 Manual Peak Response = 5140749522 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502Q
Data File : 10240502i-12.d
Date Inj'd : 5/2/2024 5:47 pm
Sample : il11pest,42e,,pp 11397 L0.
Method : pest10_2024_05_02_ugL_ic
Operator : PEST10:jag
Instrument : Pest 10
Quant Date : 5/7/2024 5:40 pm

Compound #60: Endrin Aldehyde #2



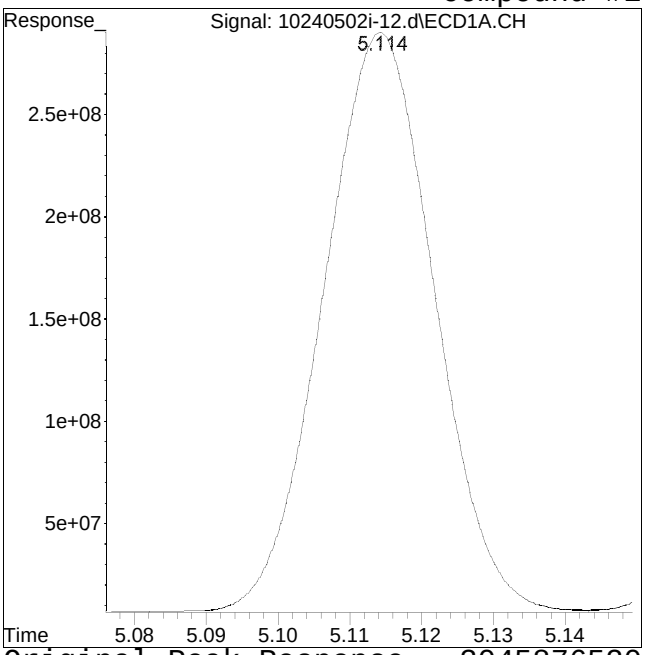


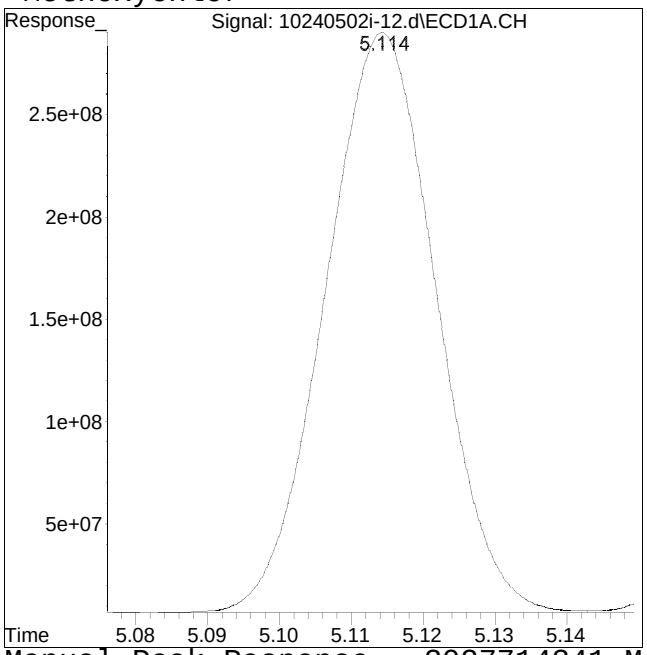
Original Peak Response = 1800014694 Manual Peak Response = 1798526571 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502Q
Data File : 10240502i-12.d
Date Inj'd : 5/2/2024 5:47 pm
Sample : il11pest,42e,,pp 11397 L0.
Method : pest10_2024_05_02_ugL_ic
Operator : PEST10:jag
Instrument : Pest 10
Quant Date : 5/7/2024 5:40 pm

Compound #23: Methoxychlor



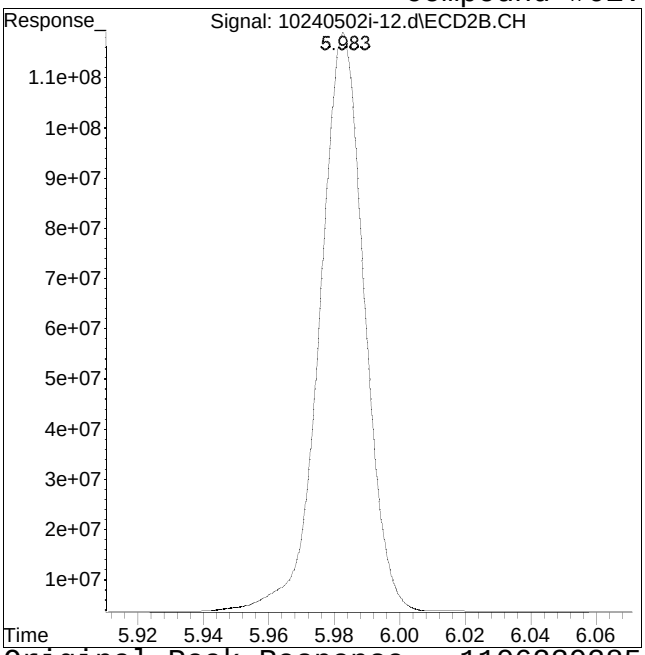


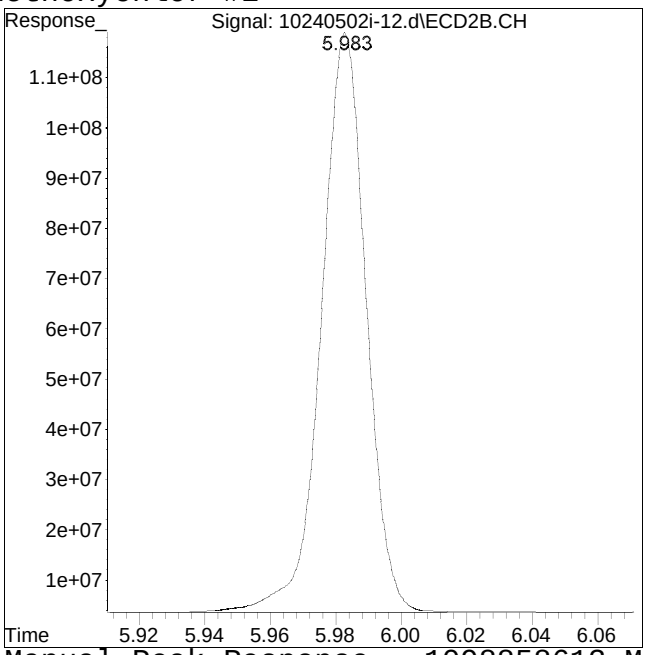
Original Peak Response = 3045876520 Manual Peak Response = 3027714341 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-12.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 5:47 pm Instrument : Pest 10
Sample : il11pest,42e,,pp 11397 L0.Quant Date : 5/7/2024 5:40 pm

Compound #61: Methoxychlor #2



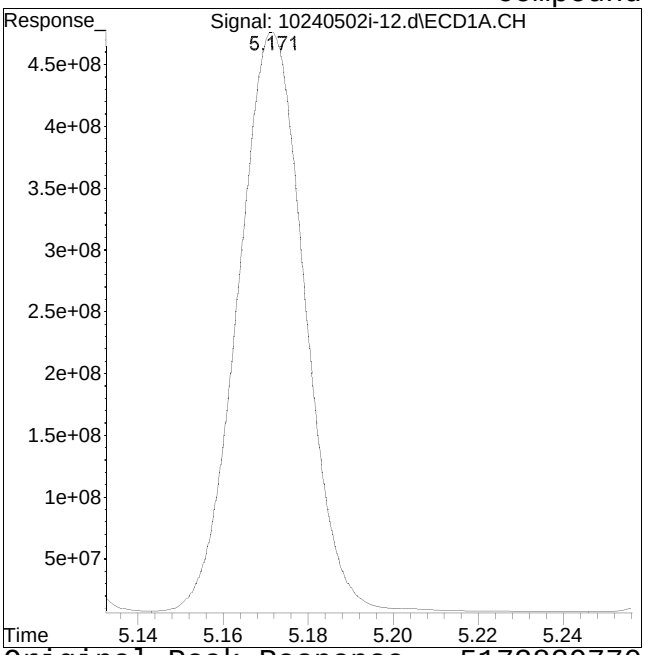


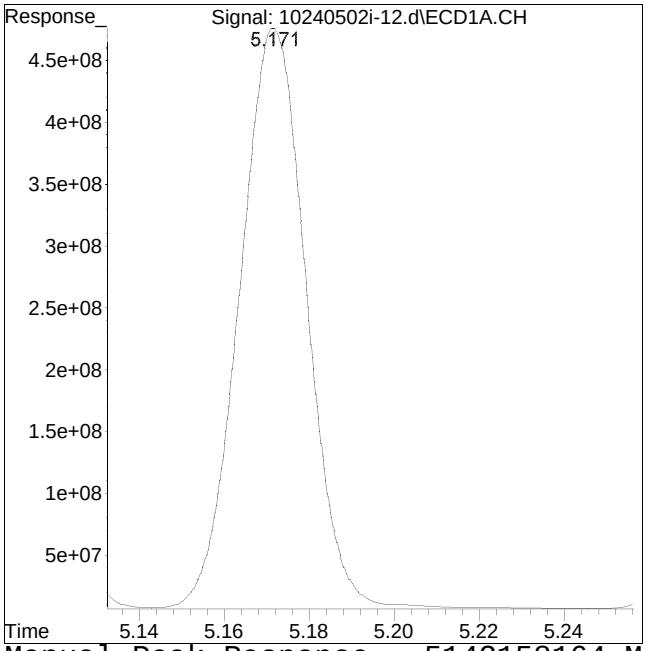
Original Peak Response = 1106239285 Manual Peak Response = 1098858613 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-12.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 5:47 pm Instrument : Pest 10
Sample : il11pest,42e,,pp 11397 L0.Quant Date : 5/7/2024 5:40 pm

Compound #24: Mirex





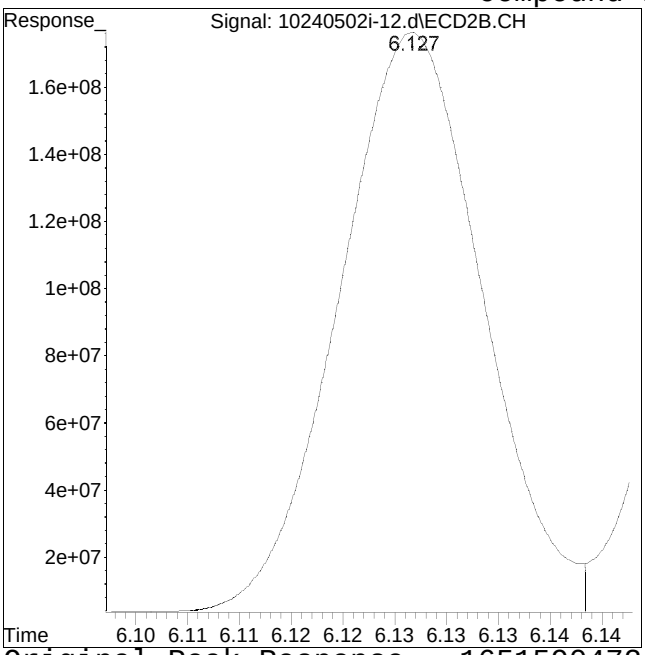
Original Peak Response = 5173839770 Manual Peak Response = 5142158164 M4
M4 = Poor automated baseline construction.

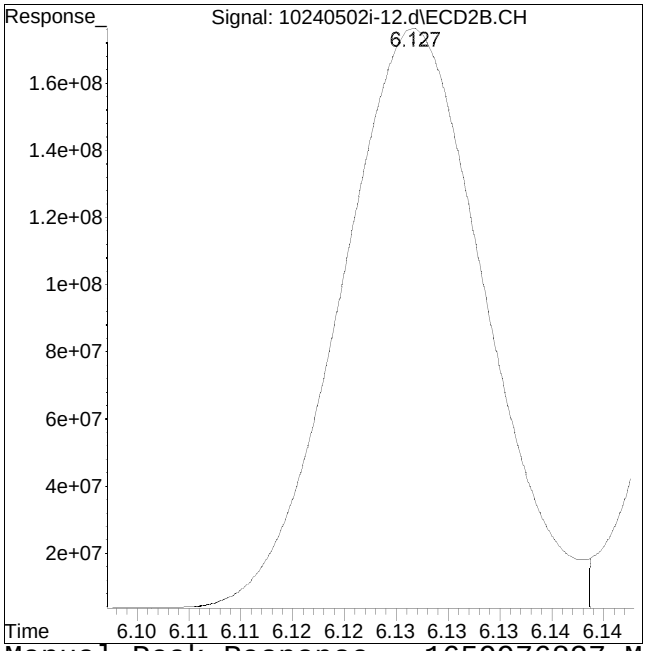
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502Q
Data File : 10240502i-12.d
Date Inj'd : 5/2/2024 5:47 pm
Sample : il11pest,42e,,pp 11397 L0.

Method : pest10_2024_05_02_ugL_ic
Operator : PEST10:jag
Instrument : Pest 10
Quant Date : 5/7/2024 5:40 pm

Compound #62: Mirex #2





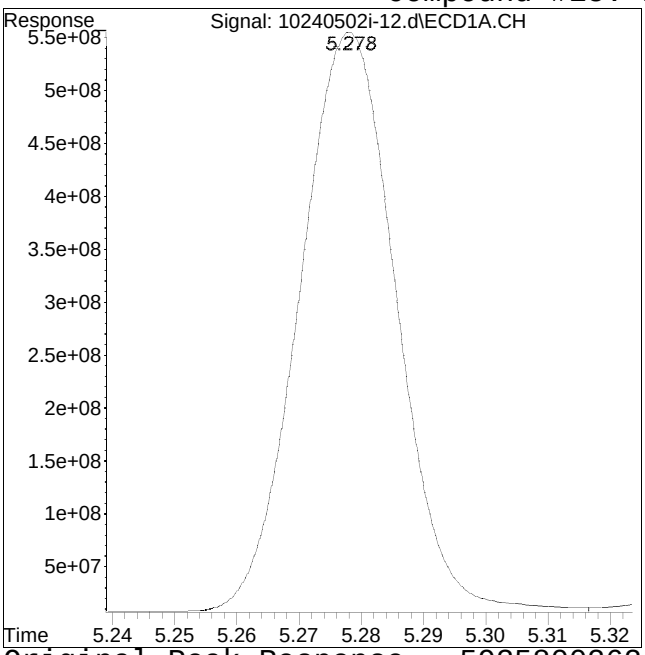
Original Peak Response = 1651590472 Manual Peak Response = 1659976837 M4
M4 = Poor automated baseline construction.

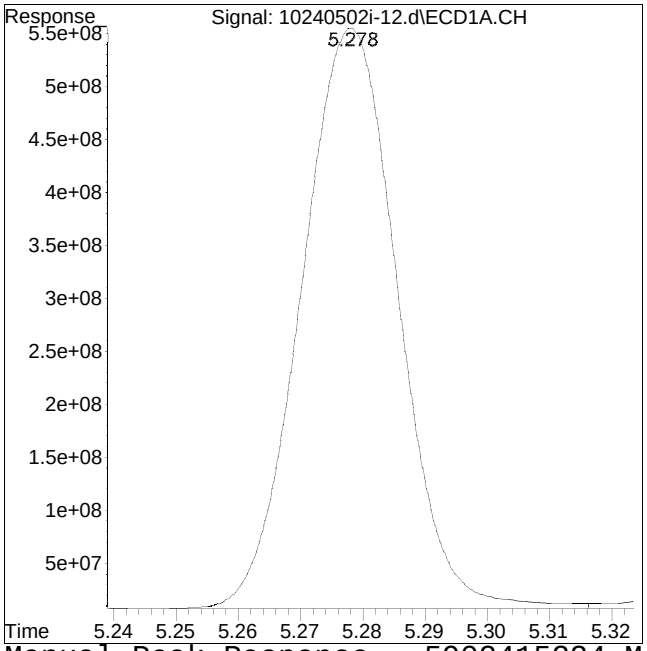
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502Q
Data File : 10240502i-12.d
Date Inj'd : 5/2/2024 5:47 pm
Sample : il11pest,42e,,pp 11397 L0.

Method : pest10_2024_05_02_ugL_ic
Operator : PEST10:jag
Instrument : Pest 10
Quant Date : 5/7/2024 5:40 pm

Compound #25: Endosulfan Sulfate



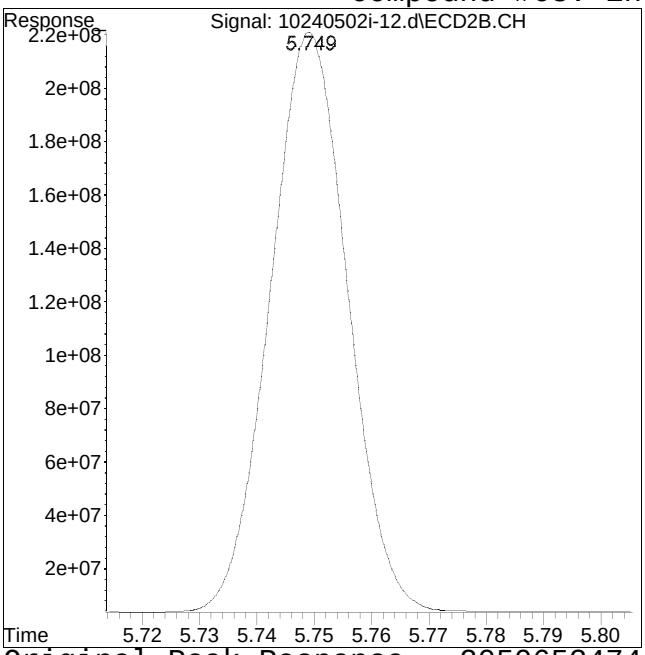


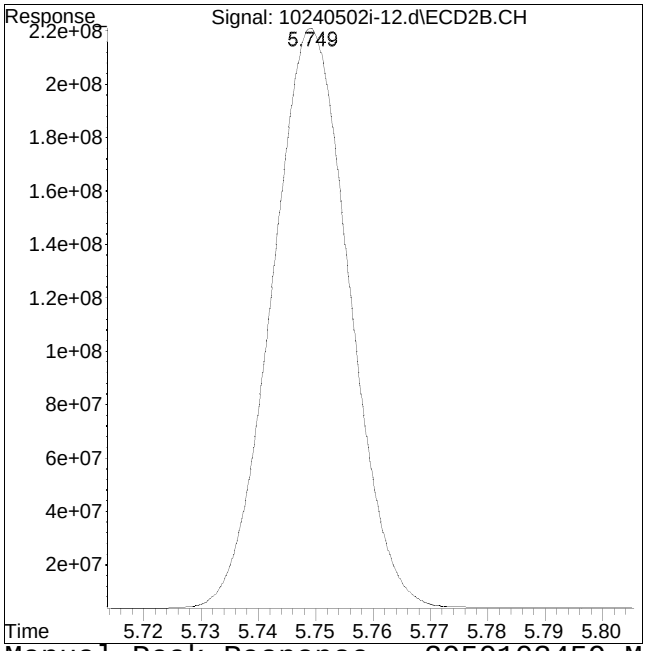
Original Peak Response = 5935800262 Manual Peak Response = 5902415224 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-12.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 5:47 pm Instrument : Pest 10
Sample : il11pest,42e,,pp 11397 L0.Quant Date : 5/7/2024 5:40 pm

Compound #63: Endosulfan Sulfate #2



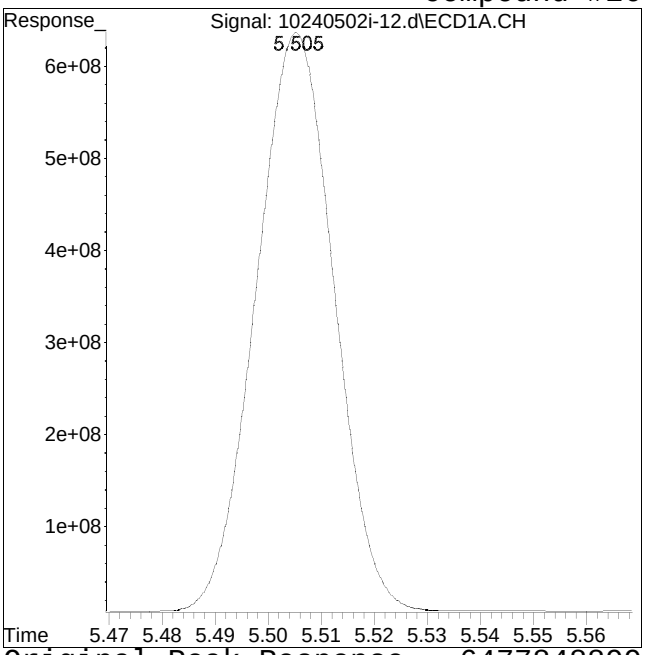


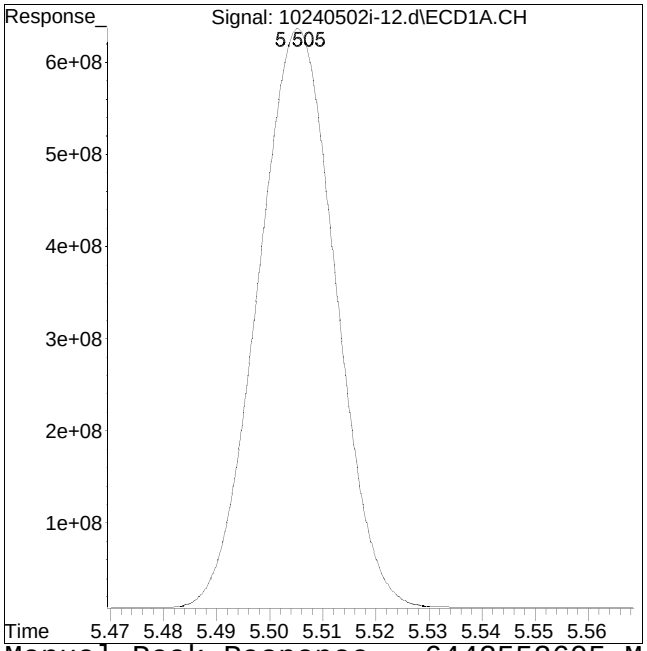
Original Peak Response = 2050653474 Manual Peak Response = 2050103459 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-12.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 5:47 pm Instrument : Pest 10
Sample : il11pest,42e,,pp 11397 L0.Quant Date : 5/7/2024 5:40 pm

Compound #26: Endrin Ketone



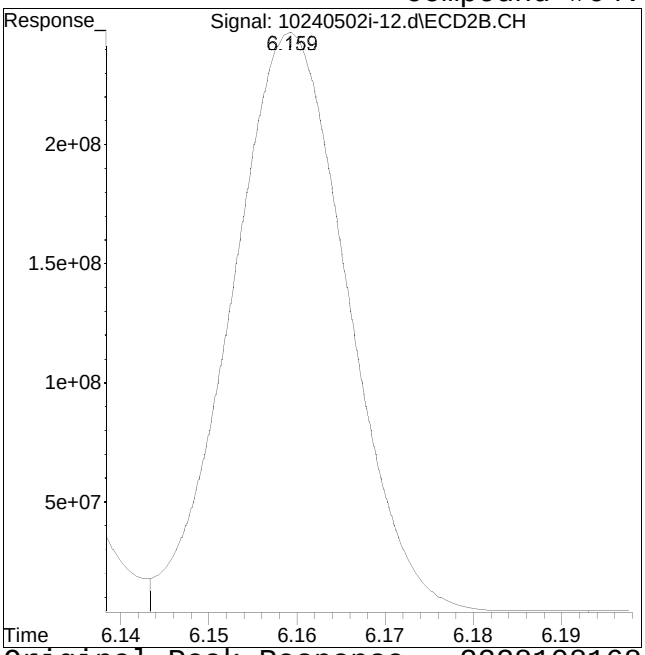


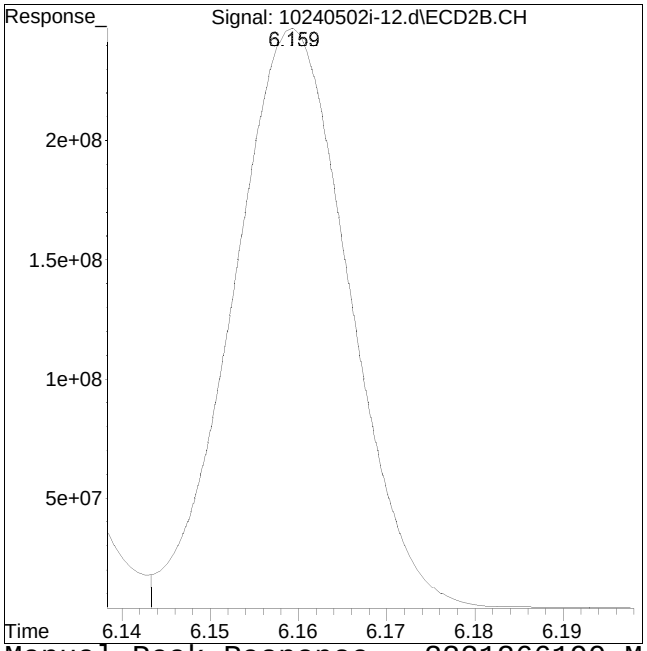
Original Peak Response = 6477848899 Manual Peak Response = 6442552605 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502Q
Data File : 10240502i-12.d
Date Inj'd : 5/2/2024 5:47 pm
Sample : il11pest,42e,,pp 11397 L0.
Method : pest10_2024_05_02_ugL_ic
Operator : PEST10:jag
Instrument : Pest 10
Quant Date : 5/7/2024 5:40 pm

Compound #64: Endrin Ketone #2



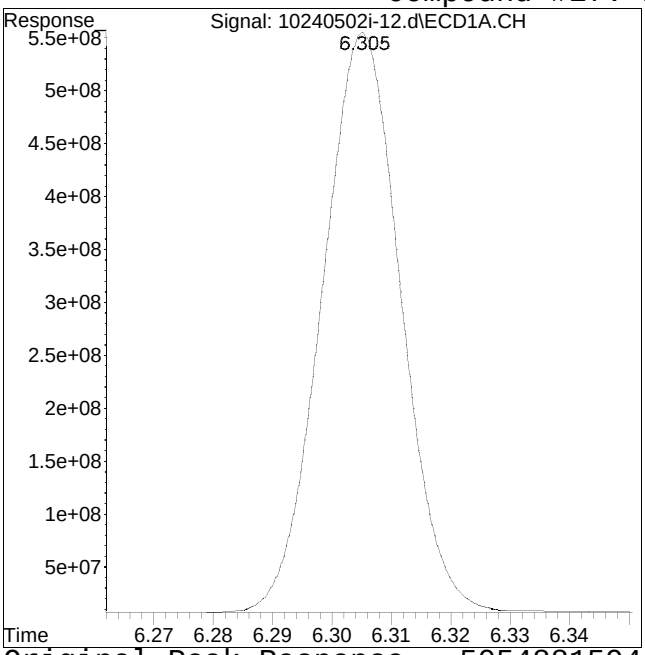


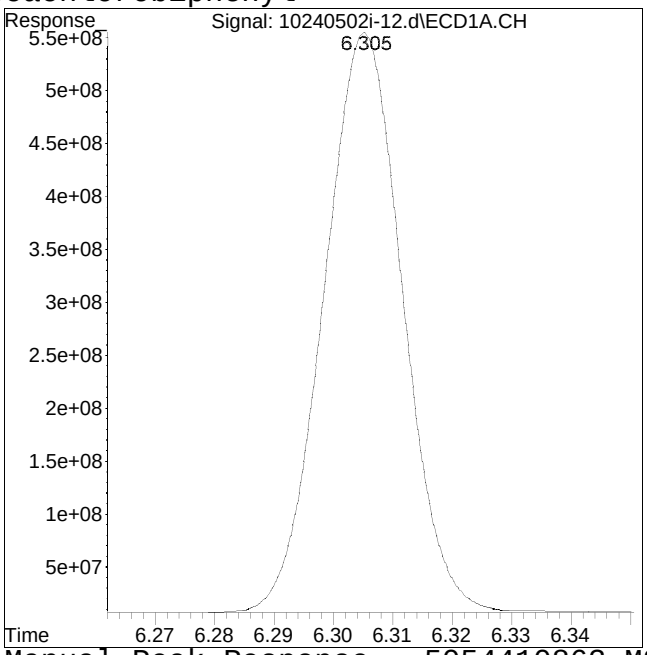
Original Peak Response = 2228108168 Manual Peak Response = 2221266190 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-12.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 5:47 pm Instrument : Pest 10
Sample : il11pest,42e,,pp 11397 L0.Quant Date : 5/7/2024 5:40 pm

Compound #27: Decachlorobiphenyl



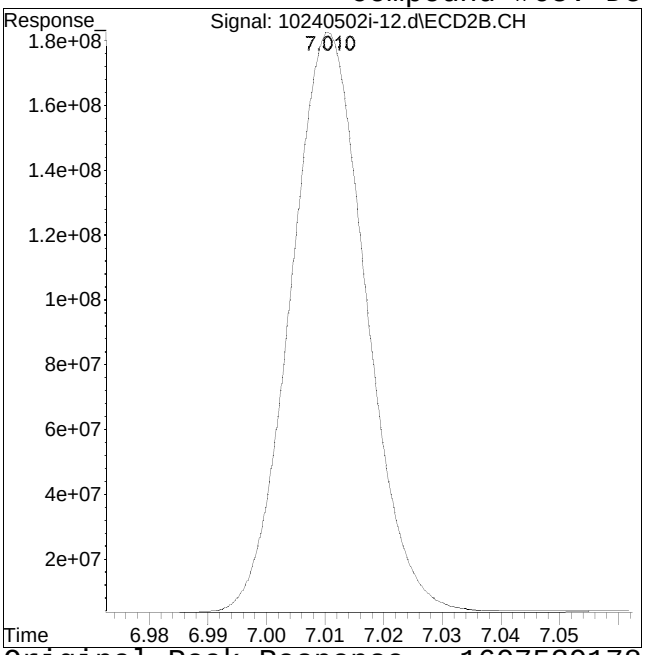


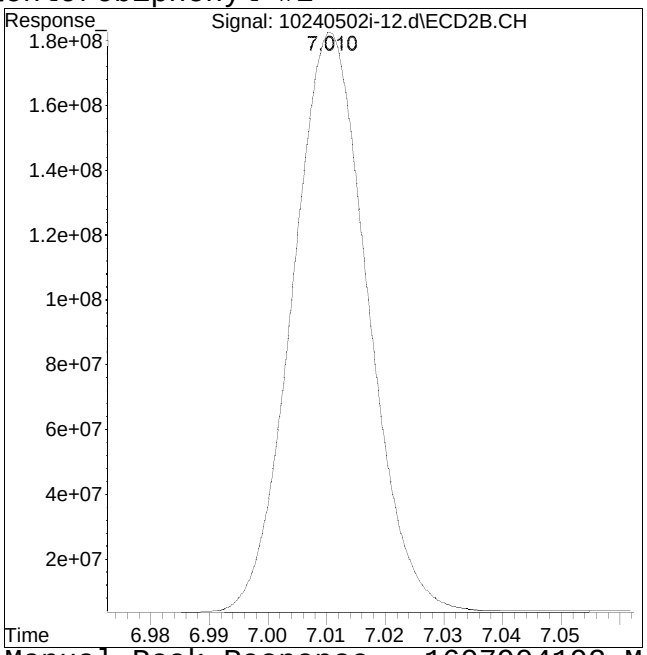
Original Peak Response = 5054881594 Manual Peak Response = 5054410863 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-12.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 5:47 pm Instrument : Pest 10
Sample : il11pest,42e,,pp 11397 L0.Quant Date : 5/7/2024 5:40 pm

Compound #65: Decachlorobiphenyl #2





Original Peak Response = 1607539178 Manual Peak Response = 1607904192 M4
M4 = Poor automated baseline construction.

Initial Calibration Verification

Evaluate Continuing Calibration Report

Data Path : I:\PEST\Pest10\2024\240502ical\
Data File : 10240502i-13.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 02 May 2024   5:58 pm
Operator : PEST10:jag
Sample   : cicvpest,42e,,pp 11536 L0.05ICV
Misc   : wg1919460, (Sig #1); ical (Sig #2)
ALS Vial : 13 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 09 15:44:58 2024
Quant Method : I:\PEST\Pest10\2024\240502ical\pest10_2024_05_02_ugL_ical.m
Quant Title : pest
QLast Update : Thu May 09 15:44:58 2024
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
1	i	1-br-2-nb_Pesticides	^	1.000	1.000	0.0	112	0.00
2	s	2,4,5,6-Tetrachloro-m-xylen		1.085	1.018	6.2	117	0.00
3	t	Hexachlorobenzene		1.160	1.049	9.6	113	0.00
4	t	alpha-BHC		1.510	1.503	0.5	115	0.00
5	t	gamma-BHC (lindane)		1.431	1.341	6.3	112	0.00
6	t	beta-BHC	*	50.000	49.141	1.7	112	0.00
7	t	delta-BHC		1.412	1.304	7.6	108	0.00
8	t	Heptachlor		1.359	1.287	5.3	113	0.00
9	t	Aldrin		1.282	1.235	3.7	114	0.00
10	t	Alachlor	*	50.000	55.196	-10.4	112	0.00
11	t	Chlorpyrifos	*	50.000	56.630	-13.3	113	0.00
12	t	Heptachlor Epoxide		1.221	1.124	7.9	112	0.00
13	t	gamma-Chlordane (trans)		1.117	1.156	-3.5	128	0.00
14	t	alpha-Chlordane (cis)		1.269	1.133	10.7	111	0.00
15	t	4,4'-DDE		1.202	1.133	5.7	111	0.00
16	t	Endosulfan I		1.163	1.059	8.9	111	0.00
17	t	Dieldrin		1.200	1.210	-0.8	121	0.00
18	t	Endrin		1.233	1.147	7.0	111	0.00
19	t	4,4'-DDD		0.977	0.965	1.2	118	0.00
20	t	Endosulfan II		1.064	1.023	3.9	114	0.00
21	t	4,4'-DDT		1.081	1.017	5.9	114	0.00
22	t	Endrin Aldehyde	*	50.000	45.888	8.2	106	0.00
23	t	Methoxychlor	*	50.000	55.134	-10.3	114	0.00
24	t	Mirex	*	50.000	50.650	-1.3	113	0.00
25	t	Endosulfan Sulfate		1.055	0.968	8.2	114	0.00
26	t	Endrin Ketone		1.157	1.129	2.4	118	0.00
27	s	Decachlorobiphenyl	*	50.000	40.862	18.3	91	0.00

Signal #2

Evaluate Continuing Calibration Report

Data Path : I:\PEST\Pest10\2024\240502ical\
Data File : 10240502i-13.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 02 May 2024   5:58 pm
Operator : PEST10:jag
Sample   : cicvpest,42e,,pp 11536 L0.05ICV
Misc   : wg1919460, (Sig #1); ical (Sig #2)
ALS Vial : 13 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 09 15:44:58 2024
Quant Method : I:\PEST\Pest10\2024\240502ical\pest10_2024_05_02_ugL_ical.m
Quant Title : pest
QLast Update : Thu May 09 15:44:58 2024
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
1	i	1-br-2-nb_Pesticides	^	1.000	1.000	0.0	111	0.00
2	s	2,4,5,6-Tetrachloro-m-xyl		0.940	0.945	-0.5	117	0.00
3	t	Hexachlorobenzene		1.080	1.021	5.5	115	0.00
4	t	alpha-BHC		1.339	1.405	-4.9	115	0.00
5	t	gamma-BHC (lindane)		1.257	1.262	-0.4	113	0.00
6	t	beta-BHC	*	50.000	49.218	1.6	113	0.00
7	t	delta-BHC		1.262	1.224	3.0	108	0.00
8	t	Heptachlor		1.248	1.225	1.8	114	0.00
9	t	Aldrin		1.137	1.145	-0.7	115	0.00
10	t	Alachlor	*	50.000	52.953	-5.9	112	0.00
11	t	Chlorpyrifos	*	50.000	54.361	-8.7	113	0.00
12	t	Heptachlor Epoxide		1.137	1.067	6.2	111	0.00
13	t	gamma-Chlordane (trans)		1.011	1.087	-7.5	128	0.00
14	t	alpha-Chlordane (cis)		1.137	1.074	5.5	112	0.00
15	t	4,4'-DDE		1.052	1.043	0.9	112	0.00
16	t	Endosulfan I		1.058	1.002	5.3	111	0.00
17	t	Dieldrin		1.059	1.125	-6.2	122	0.00
18	t	Endrin		1.086	1.063	2.1	112	0.00
19	t	4,4'-DDD		0.846	0.885	-4.6	120	0.00
20	t	Endosulfan II		0.951	0.959	-0.8	115	0.00
21	t	4,4'-DDT		0.960	0.936	2.5	112	0.00
22	t	Endrin Aldehyde	*	50.000	45.538	8.9	107	0.00
23	t	Methoxychlor	*	50.000	51.571	-3.1	113	0.00
24	t	Mirex	*	50.000	51.889	-3.8	113	0.00
25	t	Endosulfan Sulfate		0.948	0.913	3.7	116	0.00
26	t	Endrin Ketone		1.033	1.052	-1.8	119	0.00
27	s	Decachlorobiphenyl	*	50.000	41.238	17.5	91	0.00

Evaluate Continuing Calibration Report - Not Founds

Evaluate Continuing Calibration Report

Data Path : I:\PEST\Pest10\2024\240502ical\
Data File : 10240502i-13.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 02 May 2024   5:58 pm
Operator : PEST10:jag
Sample   : cicvpest,42e,,pp 11536 L0.05ICV
Misc   : wg1919460, (Sig #1); ical (Sig #2)
ALS Vial : 13 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 09 15:44:58 2024
Quant Method : I:\PEST\Pest10\2024\240502ical\pest10_2024_05_02_ugL_ical.m
Quant Title : pest
QLast Update : Thu May 09 15:44:58 2024
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
28	i	1-br-2-nb_Chlordane	^	1.000	1.000	0.0	0	-1.32#
29	l1	chlordane-1		*1000.000	0.000	100.0#	0	-2.46#
30	l1	chlordane-3		*1000.000	0.000	100.0#	0	-2.53#
31	l1	chlordane-4		*1000.000	0.000	100.0#	0	-2.88#
32	l1	chlordane-5		*1000.000	0.000	100.0#	0	-3.44#
33	i	1-br-2-nb_Toxaphene	^	1.000	1.000	0.0	0	-1.32#
34	l2	toxaphene-1		*2000.000	0.000	100.0#	0	-4.46#
35	l2	toxaphene-2		*2000.000	0.000	100.0#	0	-4.58#
36	l2	toxaphene-4		*2000.000	0.000	100.0#	0	-5.00#
37	l2	toxaphene-5		*2000.000	0.000	100.0#	0	-5.18#

Signal #2

28	i	1-br-2-nb_Chlordane	^	1.000	1.000	0.0	0	-1.43#
29	l1	chlordane-1		*1000.000	0.000	100.0#	0	-2.92#
30	l1	chlordane-3		*1000.000	0.000	100.0#	0	-3.54#
31	l1	chlordane-4		*1000.000	0.000	100.0#	0	-4.23#
32	l1	chlordane-5		*1000.000	0.000	100.0#	0	-4.40#
33	i	1-br-2-nb_Toxaphene	^	1.000	1.000	0.0	0	-1.43#
34	l2	toxaphene-1		*2000.000	0.000	100.0#	0	-5.19#
35	l2	toxaphene-2		*2000.000	0.000	100.0#	0	-5.22#
36	l2	toxaphene-4		*2000.000	0.000	100.0#	0	-5.53#
37	l2	toxaphene-5		*2000.000	0.000	100.0#	0	-5.94#

* Evaluation of CC level amount vs concentration.
(#) = Out of Range SPCC's out = 0 CCC's out = 0
(^) = ISTD area calculated using ICAL average

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest10\2024\240502ical\
Data File : 10240502i-13.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 May 2024 5:58 pm
Operator : PEST10:jag
Sample : cicvpest,42e,,pp 11536 L0.05ICV
Misc : wg1919460, (Sig #1); ical (Sig #2)
ALS Vial : 13 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 09 15:44:58 2024
Quant Method : I:\PEST\Pest10\2024\240502ical\pest10_2024_05_02_ugL_ical.m
Quant Title : pest
QLast Update : Thu May 09 15:44:58 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	1.318	1.429	429.7E6	155.6E6	25.000M3	25.000M3
28) i	1-br-2-nb_Ch	0.000	0.000	0	0	N.D. d	N.D. d
33) i	1-br-2-nb_To	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	1.662	1.920	875.0E6	294.0E6	46.908M4	50.242M3
	Spiked Amount 50.000	Range 30 - 150		Recovery =		93.82%	100.48%
27) s	Decachlorobi	6.306	7.011	569.9E6	186.2E6	40.862	41.238
	Spiked Amount 50.000	Range 30 - 150		Recovery =		81.72%	82.48%
	Target Compounds						
3) t	Hexachlorobe	1.877	2.251	901.5E6	317.9E6	45.224M3	47.272M4
4) t	alpha-BHC	1.977	2.351	1291.3E6	437.2E6	49.742	52.469
5) t	gamma-BHC (l	2.180	2.644	1152.3E6	392.9E6	46.834	50.206M4
6) t	beta-BHC	2.235	2.710	482.7E6	168.8E6	49.141M4	49.218
7) t	delta-BHC	2.365	2.984	1120.5E6	380.8E6	46.156	48.463
8) t	Heptachlor	2.527	3.053	1105.7E6	381.4E6	47.322M4	49.074M4
9) t	Aldrin	2.770	3.382	1061.2E6	356.3E6	48.158M4	50.331
10) t	Alachlor	2.892	3.258	151.8E6	54382920	55.196M4	52.953M4
11) t	Chlorpyrifos	2.983	3.620	473.7E6	176.5E6	56.630M3	54.361M4
12) t	Heptachlor E	3.316	4.011	966.0E6	332.1E6	46.019M4	46.923M4
13) t	gamma-Chlord	3.440	4.233	993.9E6	338.3E6	51.755	53.741M4

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest10\2024\240502ical\
Data File : 10240502i-13.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 May 2024 5:58 pm
Operator : PEST10:jag
Sample : cicvpest,42e,,pp 11536 L0.05ICV
Misc : wg1919460, (Sig #1); ical (Sig #2)
ALS Vial : 13 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 09 15:44:58 2024
Quant Method : I:\PEST\Pest10\2024\240502ical\pest10_2024_05_02_ugL_ical.m
Quant Title : pest
QLast Update : Thu May 09 15:44:58 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
14) t	alpha-Chlord	3.575	4.399	973.5E6	334.4E6	44.626	47.228
15) t	4,4'-DDE	3.671	4.588	974.1E6	324.8E6	47.152	49.610M4
16) t	Endosulfan I	3.713	4.459	910.4E6	311.9E6	45.547	47.360
17) t	Dieldrin	3.973	4.743	1039.5E6	350.1E6	50.390	53.125M3
18) t	Endrin	4.228	5.035	986.0E6	330.9E6	46.536	48.928M4
19) t	4,4'-DDD	4.336	5.151	829.5E6	275.6E6	49.394M3	52.333M4
20) t	Endosulfan I	4.467	5.230	879.3E6	298.4E6	48.082M3	50.391M4
21) t	4,4'-DDT	4.628	5.426	873.9E6	291.2E6	47.022	48.746M4
22) t	Endrin Aldeh	4.886	5.523	639.8E6	218.5E6	45.888	45.538M4
23) t	Methoxychlor	5.115	5.983	473.1E6	154.5E6	55.134	51.571M4
24) t	Mirex	5.173	6.127	710.7E6	235.8E6	50.650	51.889M4
25) t	Endosulfan S	5.279	5.749	832.1E6	284.3E6	45.885M4	48.167M3
26) t	Endrin Keton	5.506	6.160	970.1E6	327.6E6	48.773M4	50.933M4
29) l1	chlordane-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l1	chlordane-3	0.000	0.000	0	0	N.D. d	N.D. d
31) l1	chlordane-4	0.000	0.000	0	0	N.D. d	N.D. d
32) l1	chlordane-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	chlordane-1			0	0	N.D.	N.D.
Average	chlordane-1					0.000	0.000
34) l2	toxaphene-1	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\PEST\Pest10\2024\240502ical\
Data File : 10240502i-13.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 May 2024 5:58 pm
Operator : PEST10:jag
Sample : cicvpest,42e,,pp 11536 L0.05ICV
Misc : wg1919460, (Sig #1); ical (Sig #2)
ALS Vial : 13 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 09 15:44:58 2024
Quant Method : I:\PEST\Pest10\2024\240502ical\pest10_2024_05_02_ugL_ical.m
Quant Title : pest
QLast Update : Thu May 09 15:44:58 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
35) l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
36) l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
37) l2	toxaphene-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

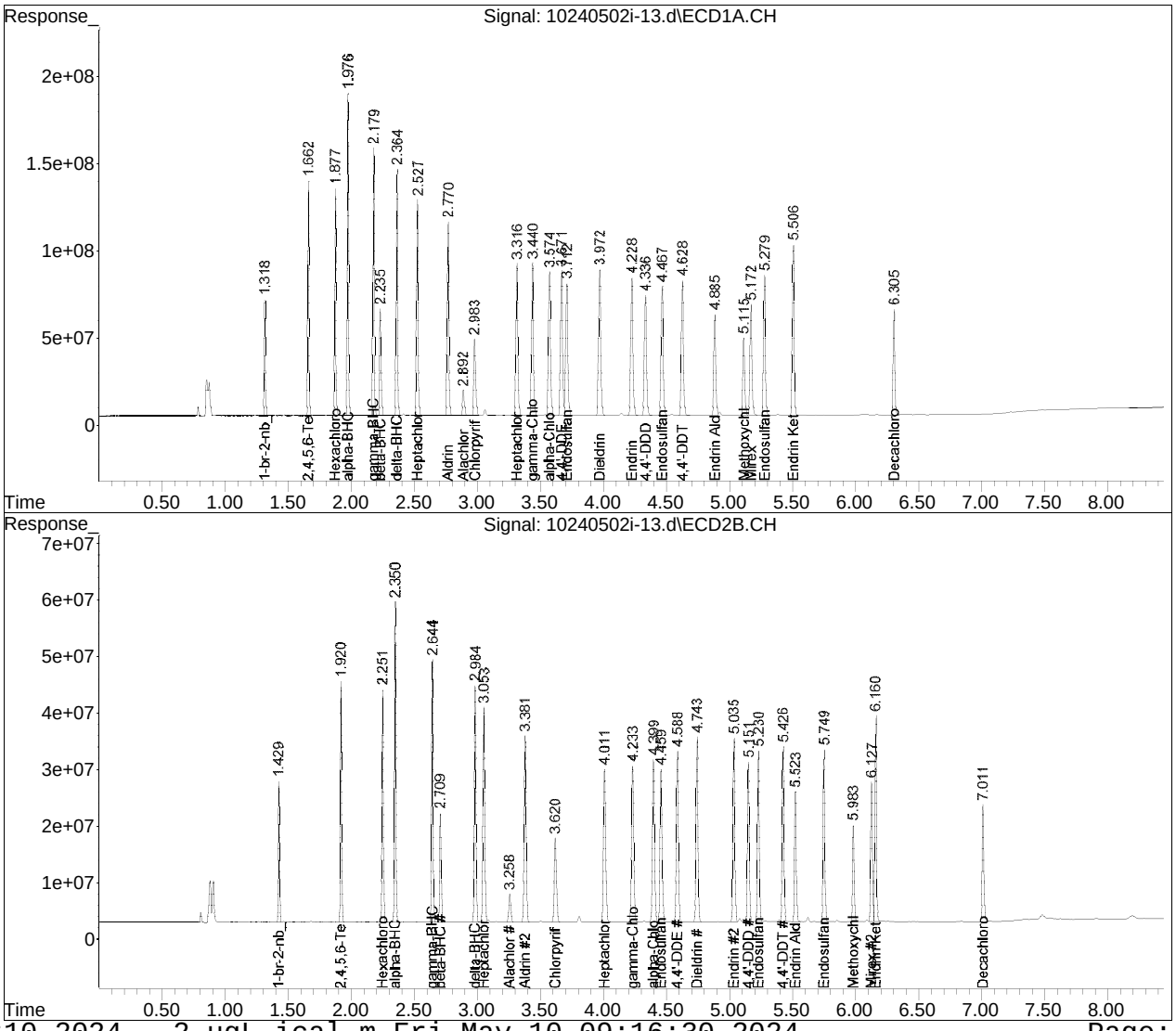
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest10\2024\240502ical\
Data File : 10240502i-13.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 May 2024 5:58 pm
Operator : PEST10:jag
Sample : cicvpest,42e,,pp 11536 L0.05ICV
Misc : wg1919460, (Sig #1); ical (Sig #2)
ALS Vial : 13 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 09 15:44:58 2024
Quant Method : I:\PEST\Pest10\2024\240502ical\pest10_2024_05_02_ugL_ical.m
Quant Title : pest
QLast Update : Thu May 09 15:44:58 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

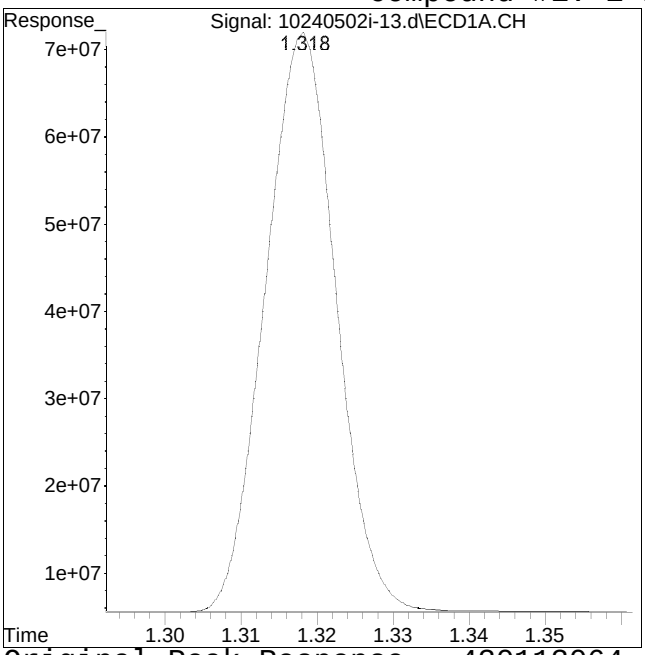
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

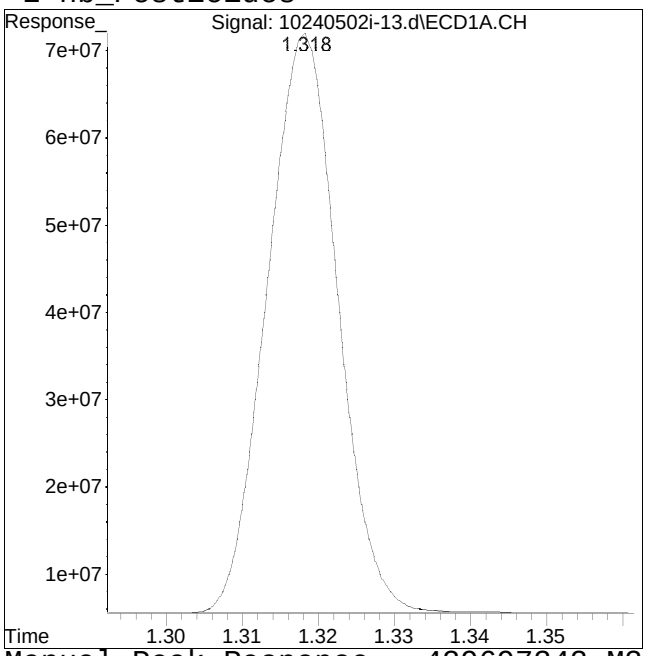


Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-13.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 5:58 pm Instrument : Pest 10
Sample : cicvpest,42e,,pp 11536 L0.Quant Date : 5/9/2024 3:44 pm

Compound #1: 1-br-2-nb_Pesticides



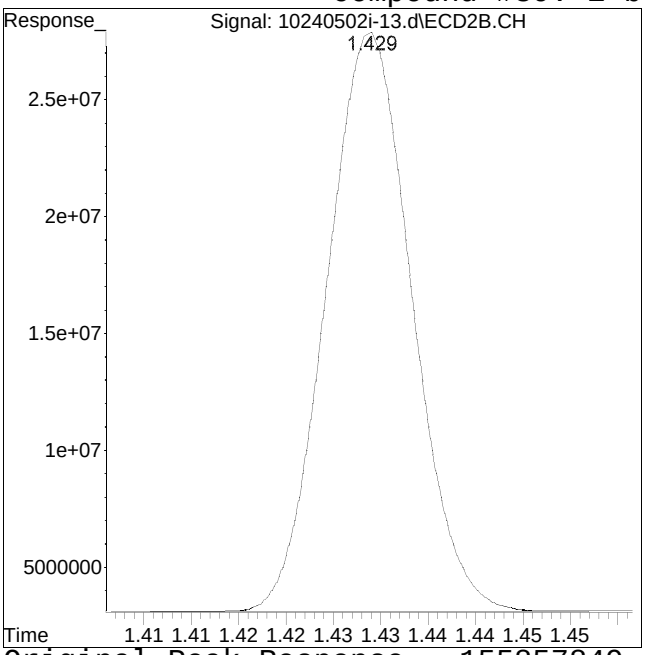


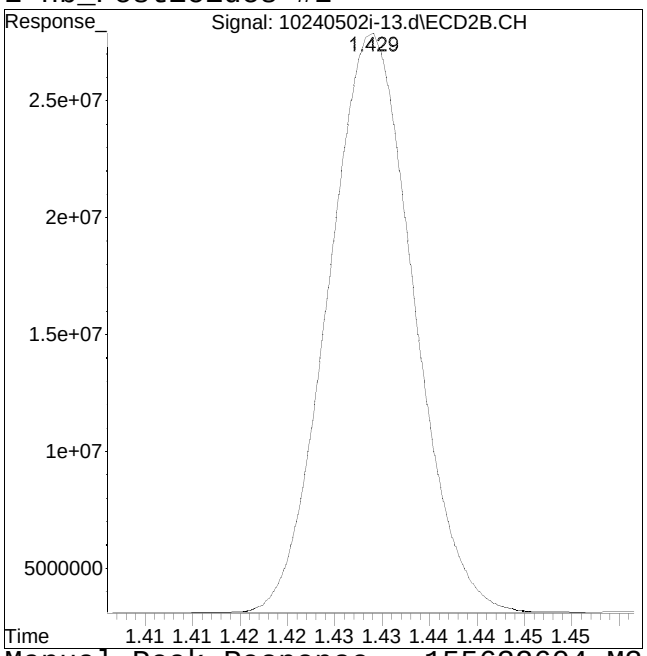
Original Peak Response = 430113064 Manual Peak Response = 429697342 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-13.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 5:58 pm Instrument : Pest 10
Sample : cicvpest,42e,,pp 11536 L0.Quant Date : 5/9/2024 3:44 pm

Compound #39: 1-br-2-nb_Pesticides #2



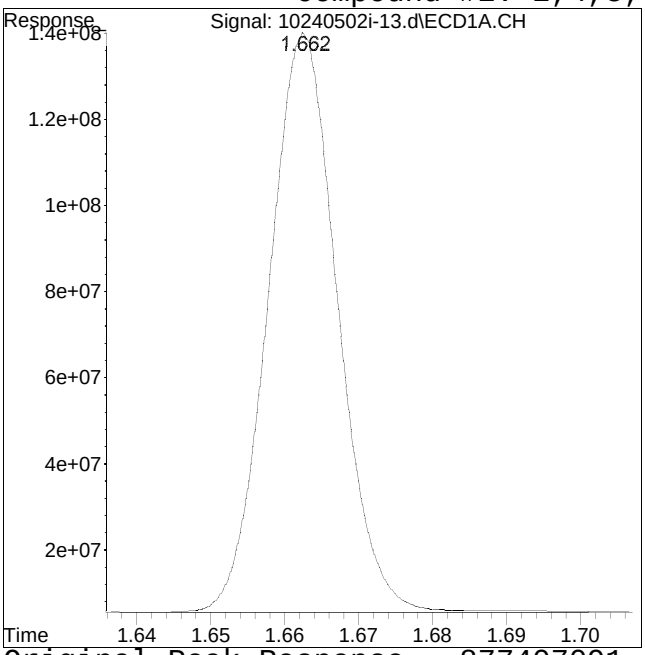


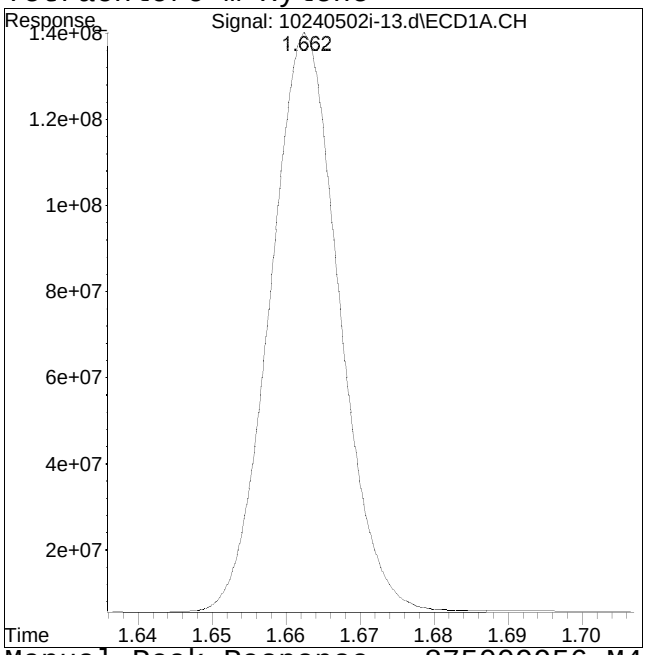
Original Peak Response = 155857849 Manual Peak Response = 155632604 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-13.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 5:58 pm Instrument : Pest 10
Sample : cicvpest,42e,,pp 11536 L0.Quant Date : 5/9/2024 3:44 pm

Compound #2: 2,4,5,6-Tetrachloro-m-xylene



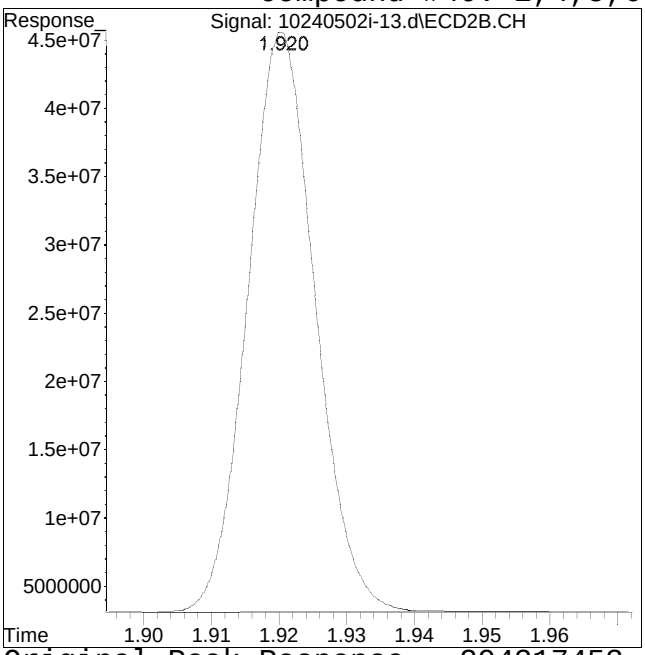


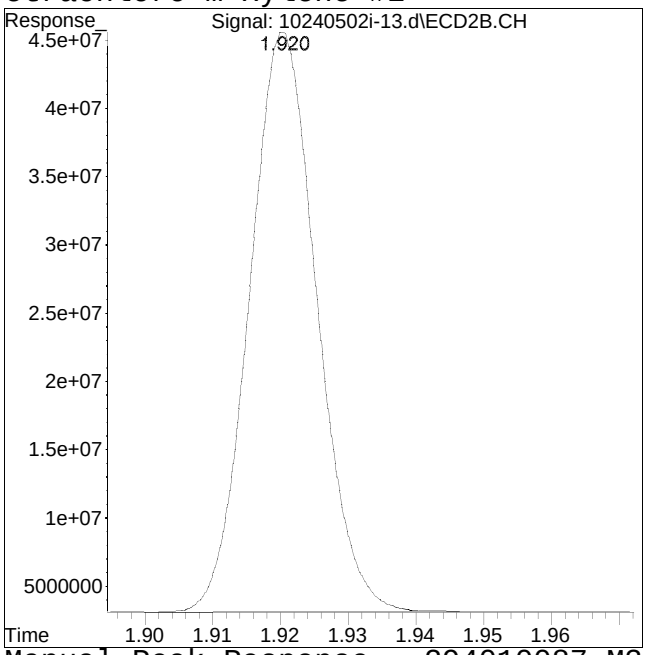
Original Peak Response = 877407091 Manual Peak Response = 875009956 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-13.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 5:58 pm Instrument : Pest 10
Sample : cicvpest,42e,,pp 11536 L0.Quant Date : 5/9/2024 3:44 pm

Compound #40: 2,4,5,6-Tetrachloro-m-xylene #2



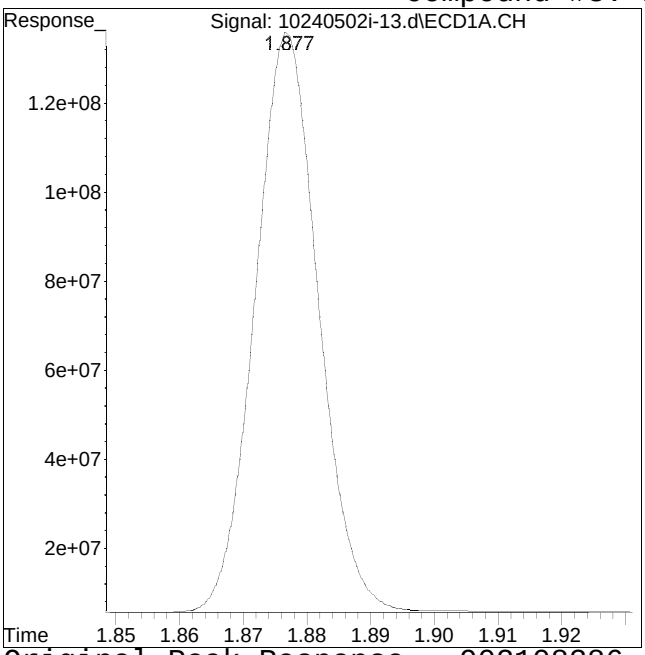


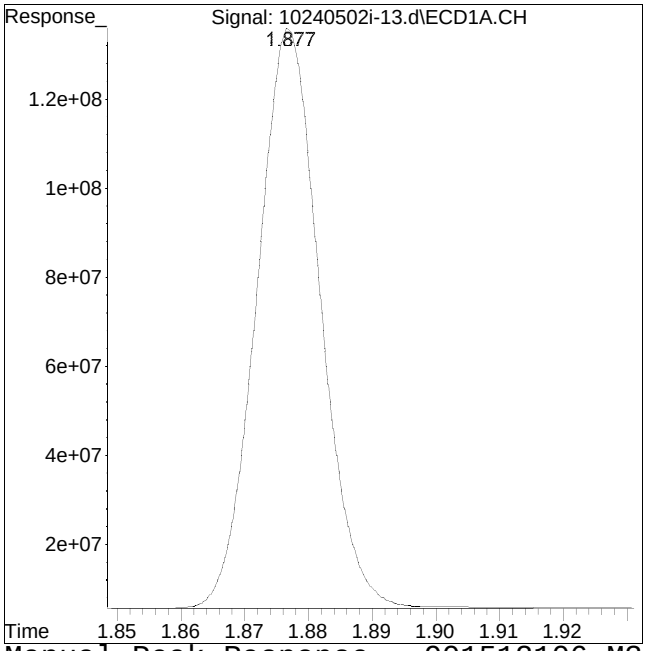
Original Peak Response = 294317453 Manual Peak Response = 294010087 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-13.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 5:58 pm Instrument : Pest 10
Sample : cicvpest,42e,,pp 11536 L0.Quant Date : 5/9/2024 3:44 pm

Compound #3: Hexachlorobenzene



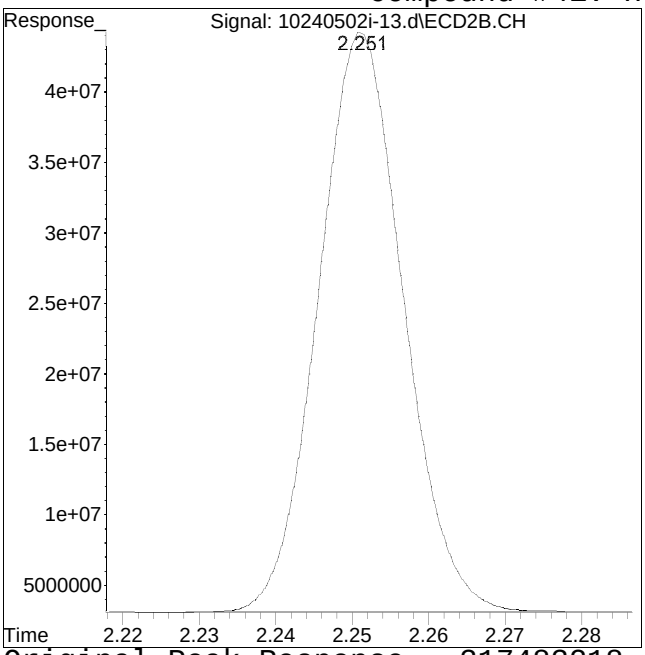


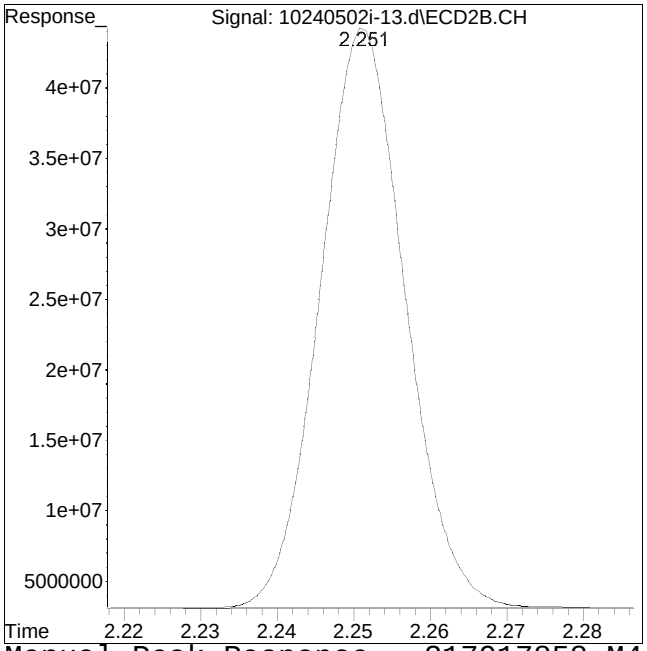
Original Peak Response = 902108386 Manual Peak Response = 901512106 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-13.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 5:58 pm Instrument : Pest 10
Sample : cicvpest,42e,,pp 11536 L0.Quant Date : 5/9/2024 3:44 pm

Compound #41: Hexachlorobenzene #2





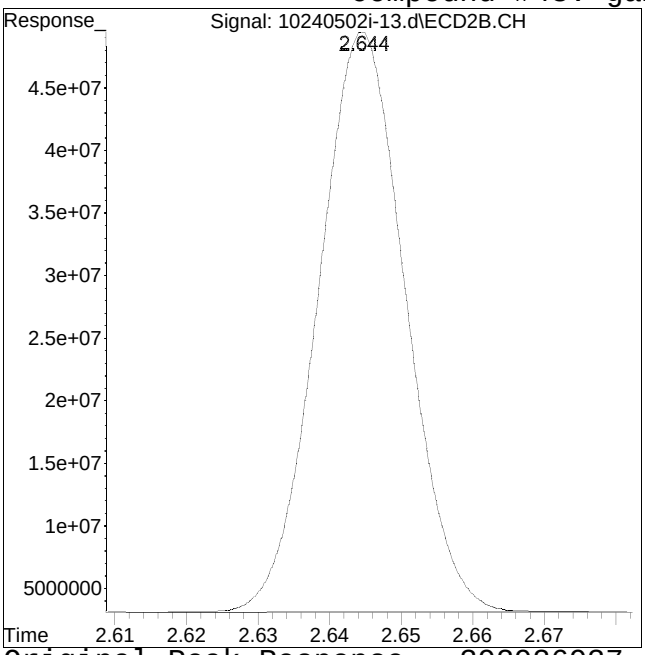
Original Peak Response = 317483218 Manual Peak Response = 317917858 M4
M4 = Poor automated baseline construction.

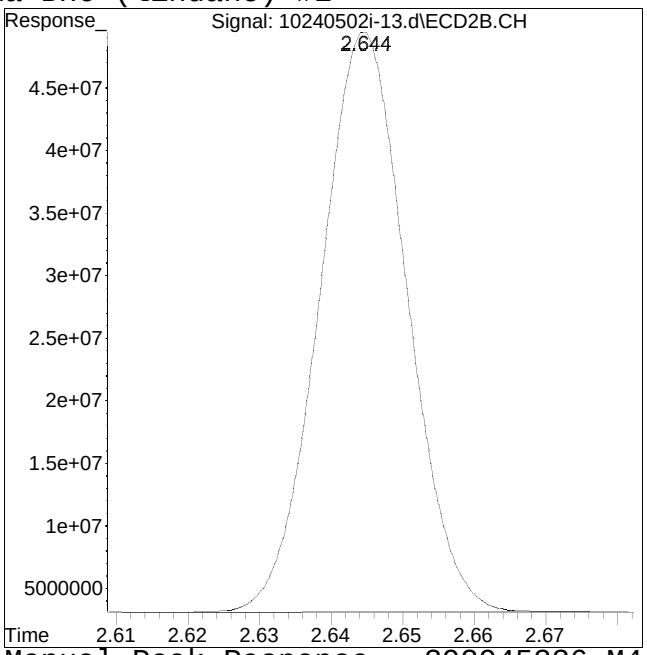
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502Q
Data File : 10240502i-13.d
Date Inj'd : 5/2/2024 5:58 pm
Sample : cicvpest,42e,,pp 11536 L0.

Method : pest10_2024_05_02_ugL_ic
Operator : PEST10:jag
Instrument : Pest 10
Quant Date : 5/9/2024 3:44 pm

Compound #43: gamma-BHC (lindane) #2



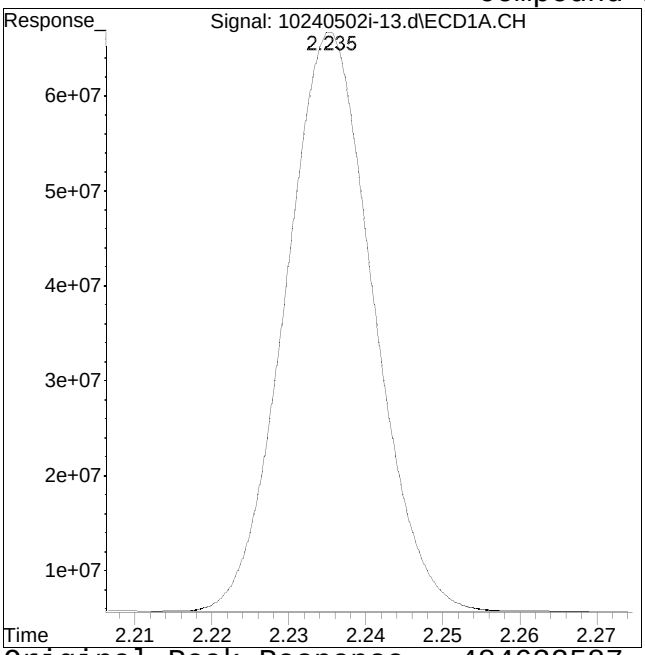


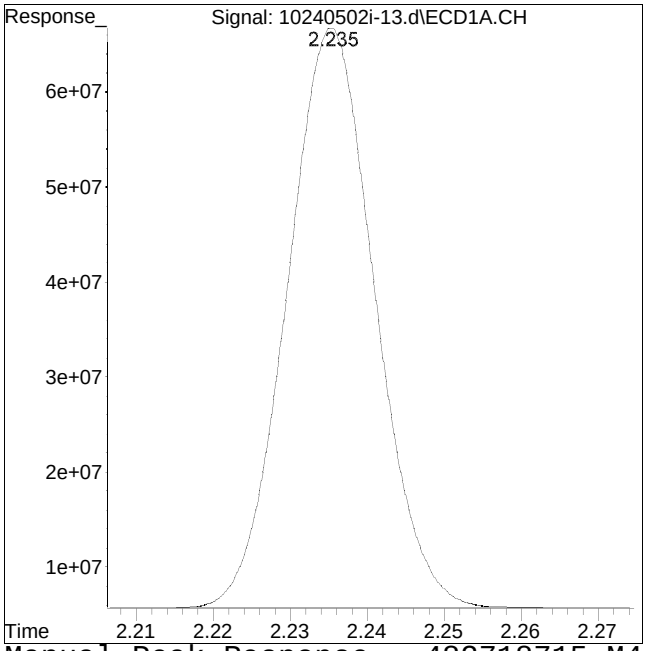
Original Peak Response = 392926937 Manual Peak Response = 392945336 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-13.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 5:58 pm Instrument : Pest 10
Sample : cicvpest,42e,,pp 11536 L0.Quant Date : 5/9/2024 3:44 pm

Compound #6: beta-BHC



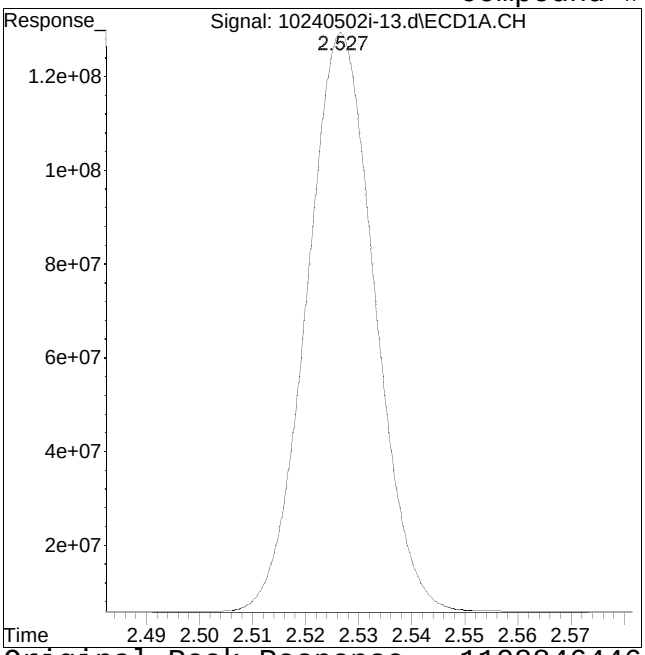


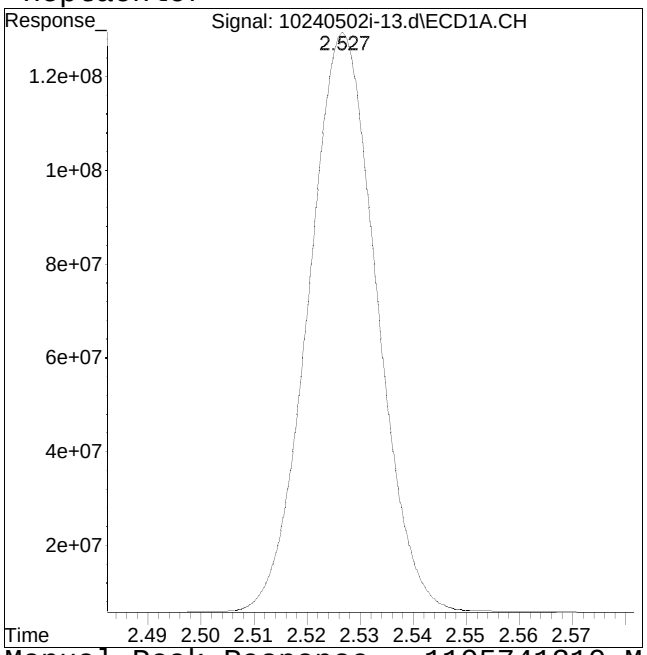
Original Peak Response = 484632587 Manual Peak Response = 482718715 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502Q
Data File : 10240502i-13.d
Date Inj'd : 5/2/2024 5:58 pm
Sample : cicvpest,42e,,pp 11536 L0.
Method : pest10_2024_05_02_ugL_ic
Operator : PEST10:jag
Instrument : Pest 10
Quant Date : 5/9/2024 3:44 pm

Compound #8: Heptachlor



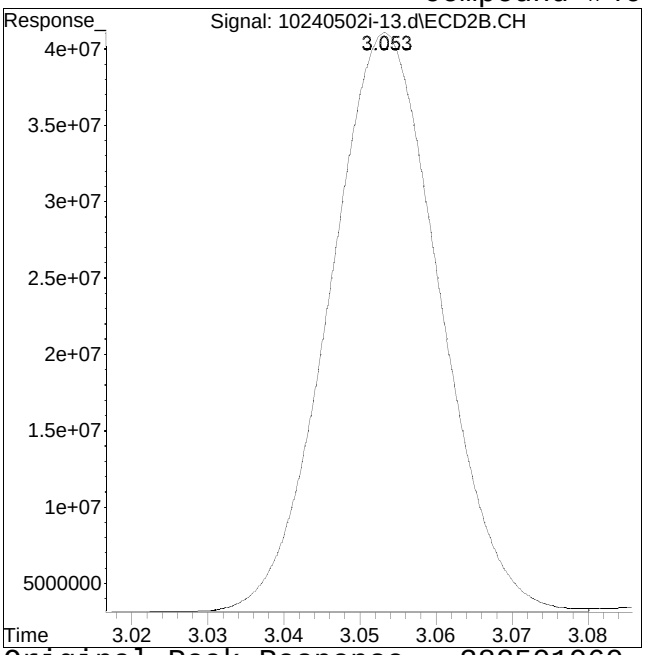


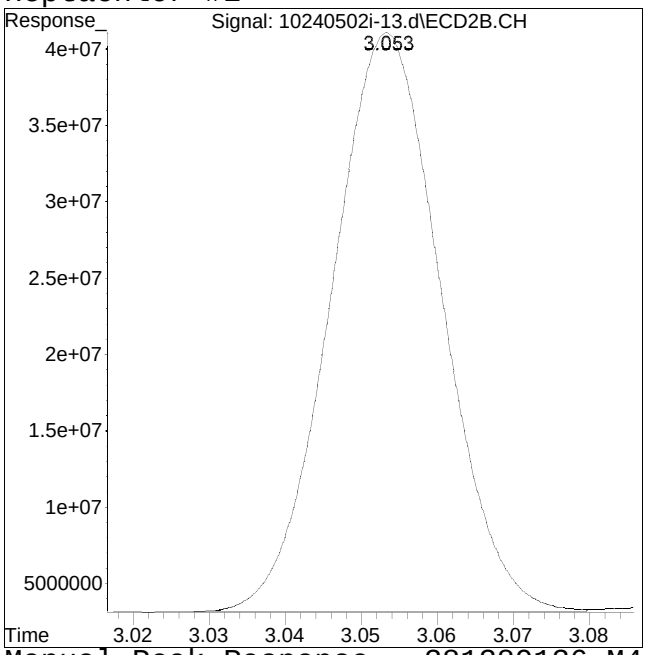
Original Peak Response = 1108846446 Manual Peak Response = 1105741310 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-13.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 5:58 pm Instrument : Pest 10
Sample : cicvpest,42e,,pp 11536 L0.Quant Date : 5/9/2024 3:44 pm

Compound #46: Heptachlor #2



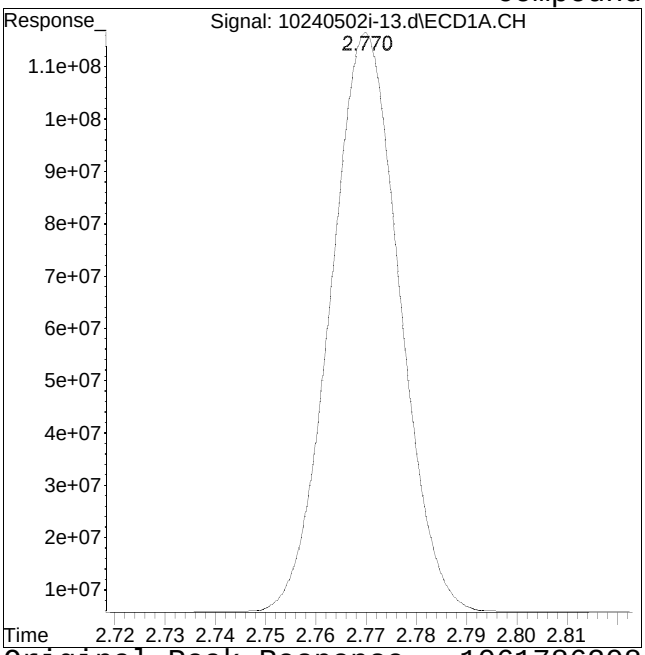


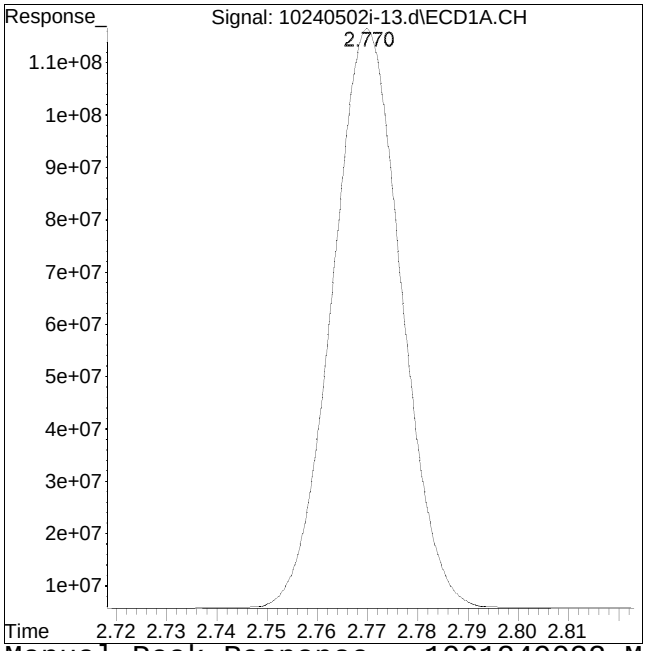
Original Peak Response = 382501960 Manual Peak Response = 381389136 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-13.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 5:58 pm Instrument : Pest 10
Sample : cicvpest,42e,,pp 11536 L0.Quant Date : 5/9/2024 3:44 pm

Compound #9: Aldrin





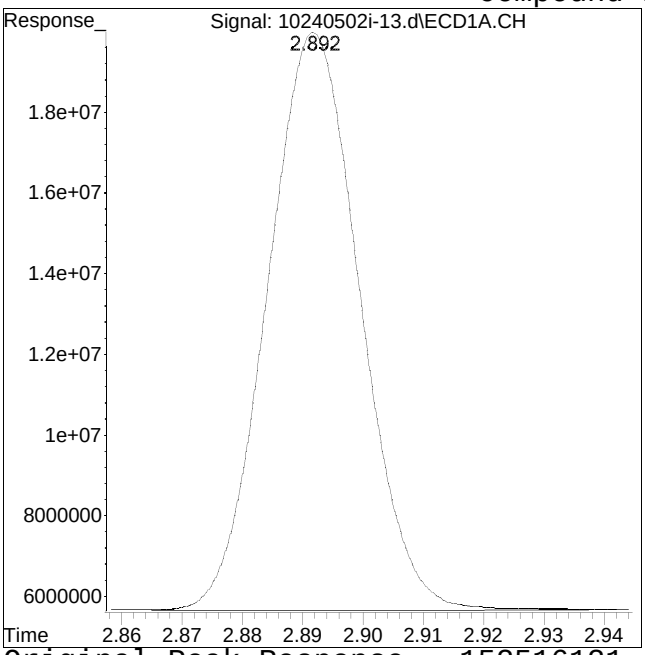
Original Peak Response = 1061786208 Manual Peak Response = 1061249032 M4
M4 = Poor automated baseline construction.

Manual Integration Report

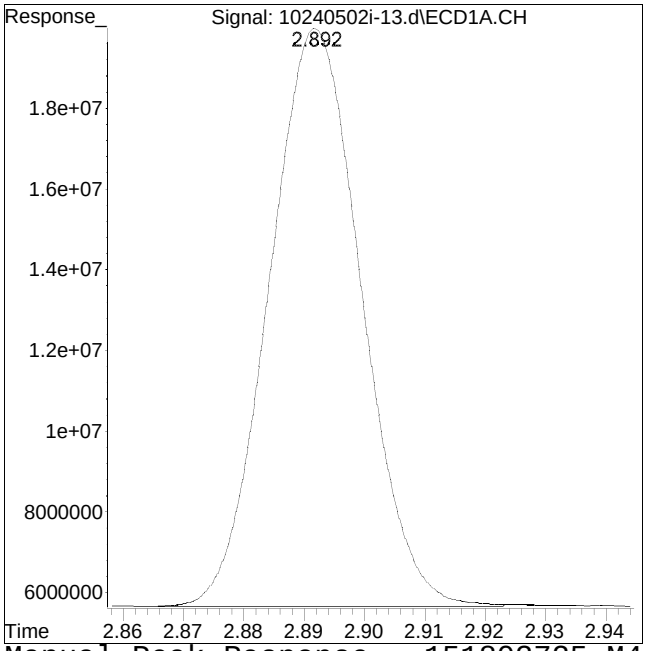
Data Path : I:\PEST\Pest10\2024\240502Q
Data File : 10240502i-13.d
Date Inj'd : 5/2/2024 5:58 pm
Sample : cicvpest,42e,,pp 11536 L0.

Method : pest10_2024_05_02_ugL_ic
Operator : PEST10:jag
Instrument : Pest 10
Quant Date : 5/9/2024 3:44 pm

Compound #10: Alachlor



Original Peak Response = 152516121



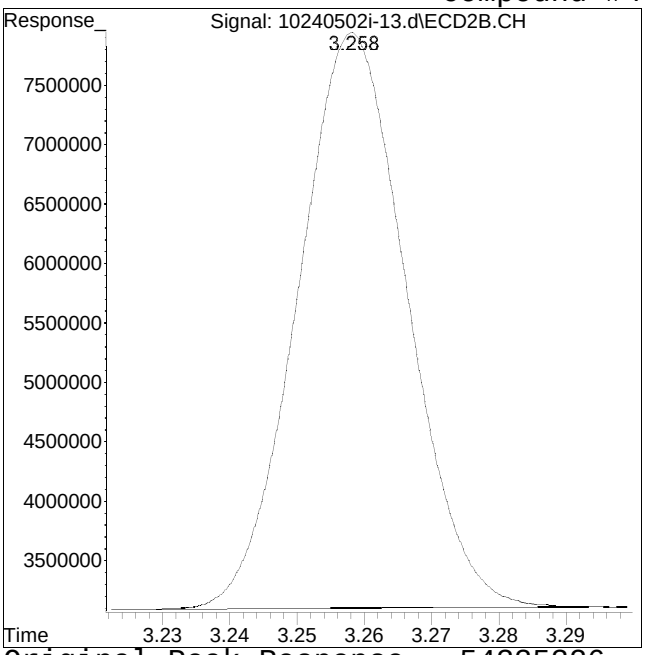
Manual Peak Response = 151803725 M4

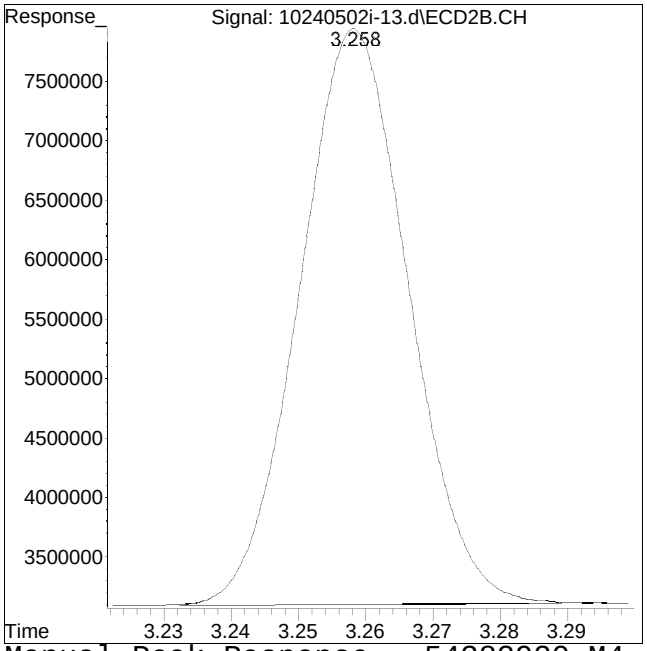
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-13.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 5:58 pm Instrument : Pest 10
Sample : cicvpest,42e,,pp 11536 L0.Quant Date : 5/9/2024 3:44 pm

Compound #48: Alachlor #2



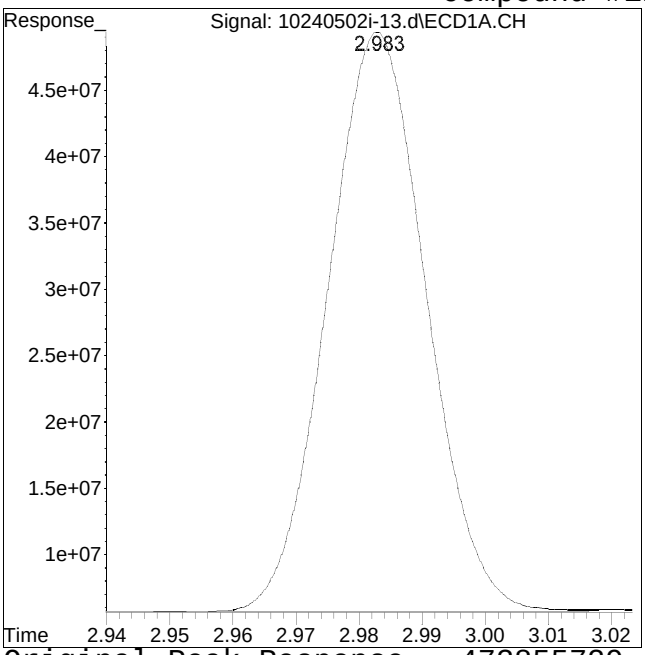


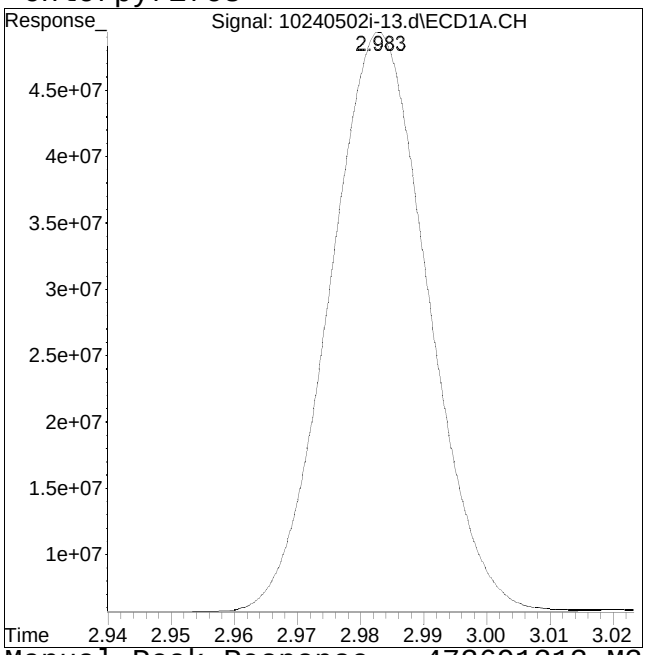
Original Peak Response = 54335326 Manual Peak Response = 54382920 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-13.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 5:58 pm Instrument : Pest 10
Sample : cicvpest,42e,,pp 11536 L0.Quant Date : 5/9/2024 3:44 pm

Compound #11: Chlorpyrifos



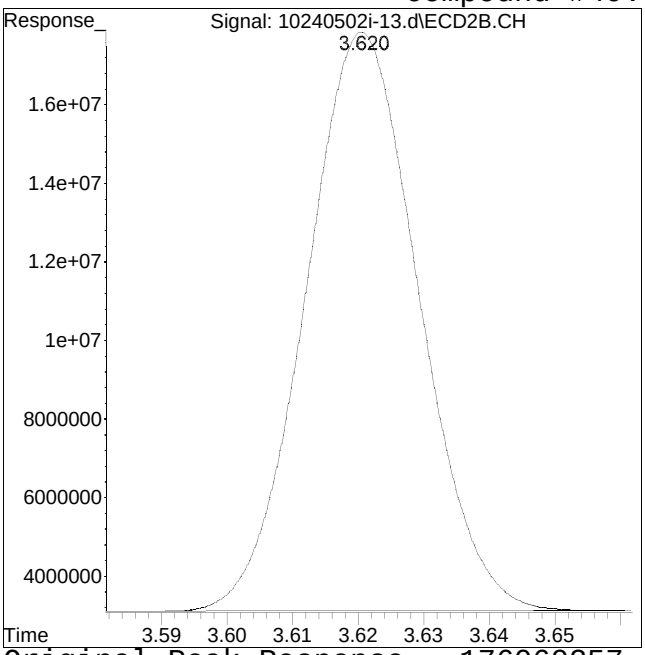


Original Peak Response = 473855729 Manual Peak Response = 473691213 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

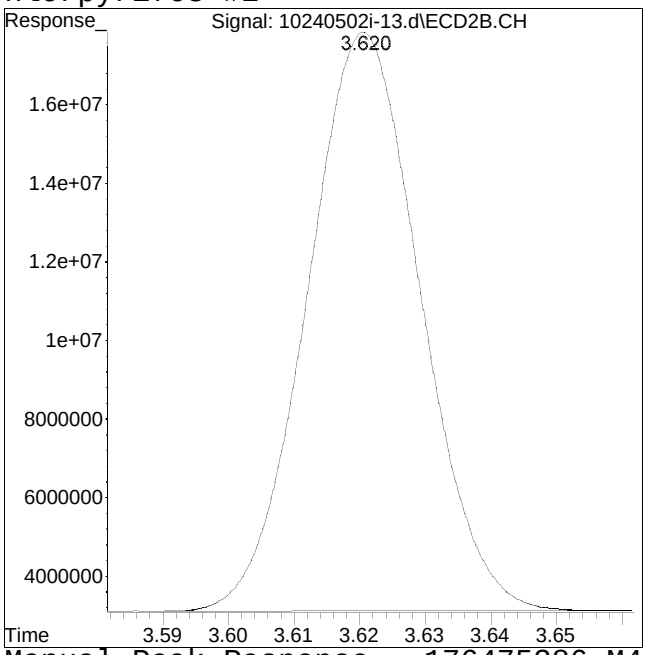
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-13.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 5:58 pm Instrument : Pest 10
Sample : cicvpest,42e,,pp 11536 L0.Quant Date : 5/9/2024 3:44 pm

Compound #49: Chlorpyrifos #2



Original Peak Response = 176060257



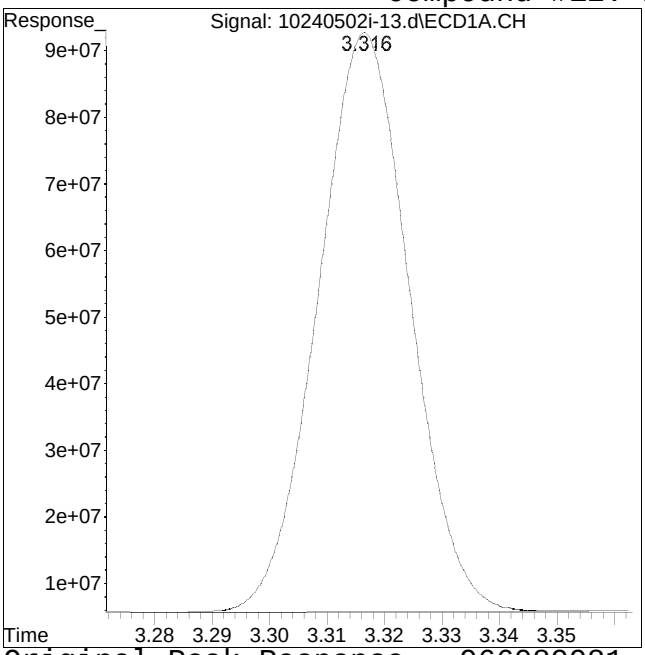
Manual Peak Response = 176475386 M4

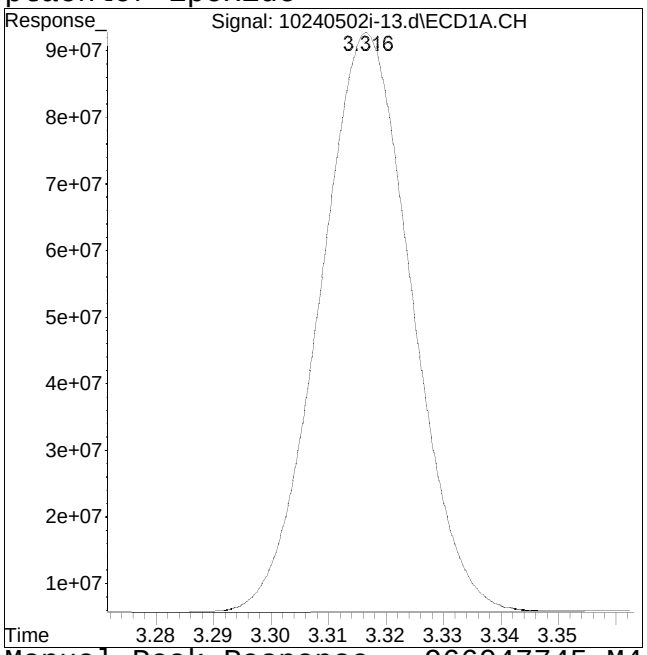
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-13.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 5:58 pm Instrument : Pest 10
Sample : cicvpest,42e,,pp 11536 L0.Quant Date : 5/9/2024 3:44 pm

Compound #12: Heptachlor Epoxide



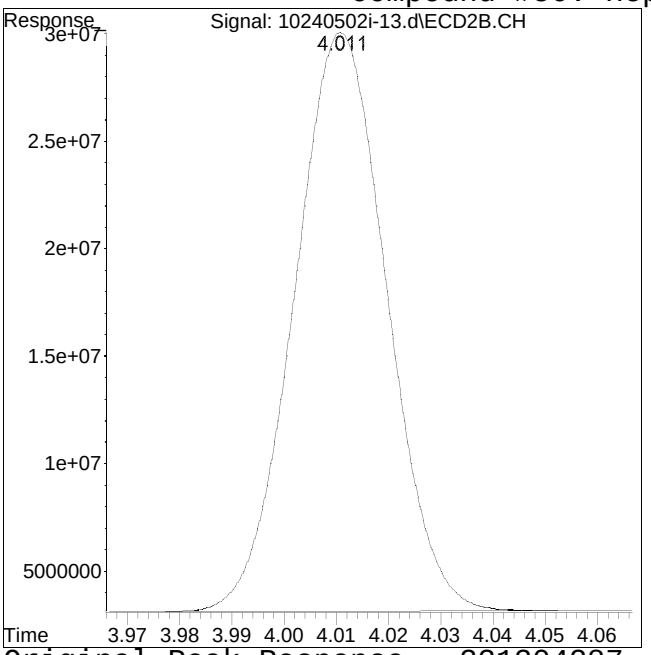


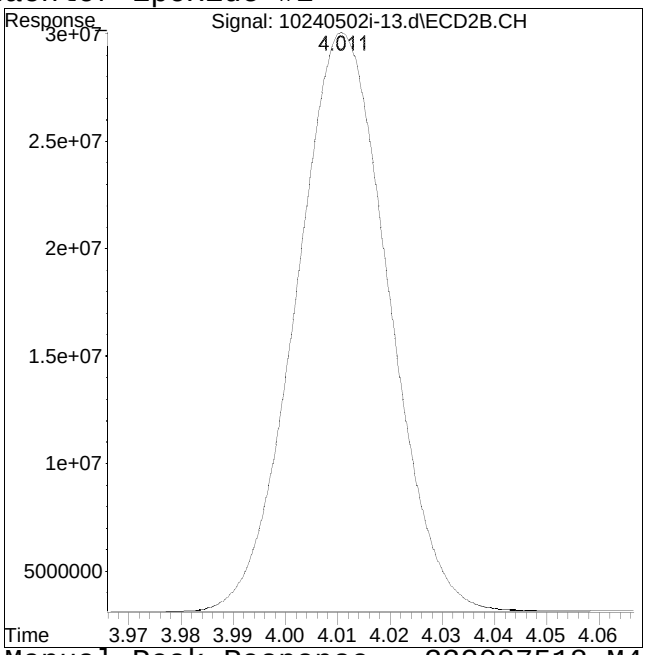
Original Peak Response = 966089981 Manual Peak Response = 966047745 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-13.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 5:58 pm Instrument : Pest 10
Sample : cicvpest,42e,,pp 11536 L0.Quant Date : 5/9/2024 3:44 pm

Compound #50: Heptachlor Epoxide #2



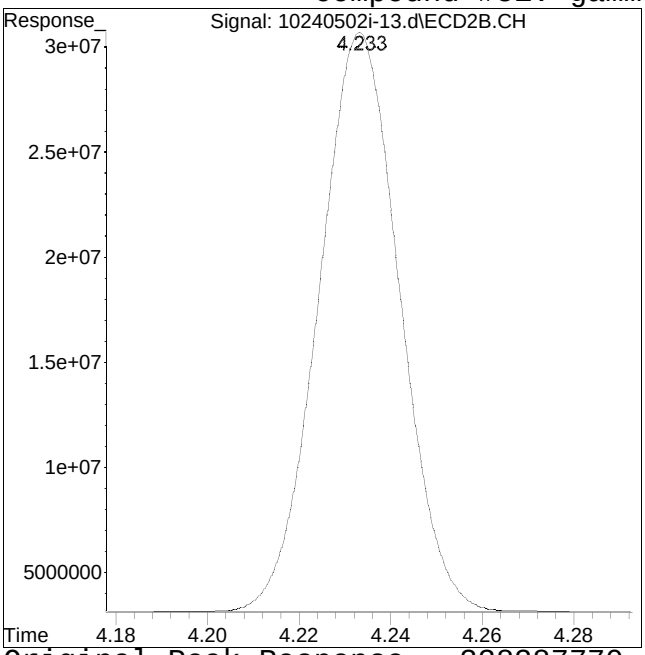


Original Peak Response = 331304287 Manual Peak Response = 332087518 M4
M4 = Poor automated baseline construction.

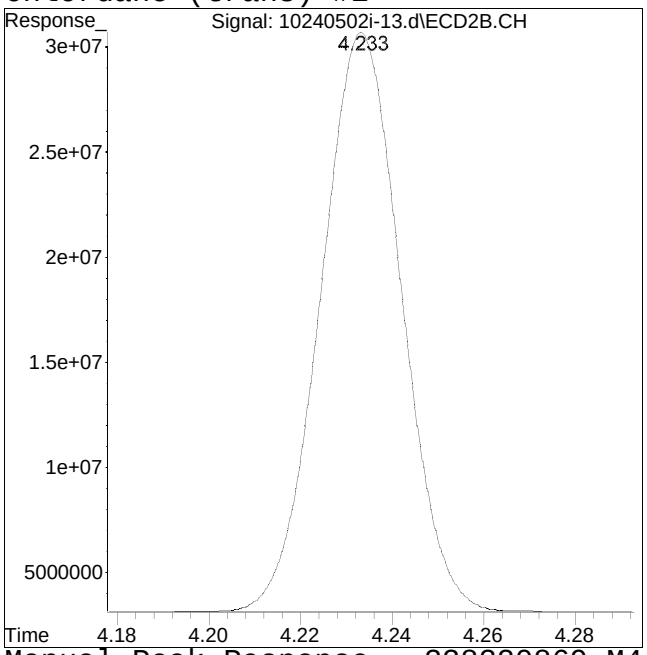
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-13.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 5:58 pm Instrument : Pest 10
Sample : cicvpest,42e,,pp 11536 L0.Quant Date : 5/9/2024 3:44 pm

Compound #51: gamma-Chlordane (trans) #2



Original Peak Response = 338387770



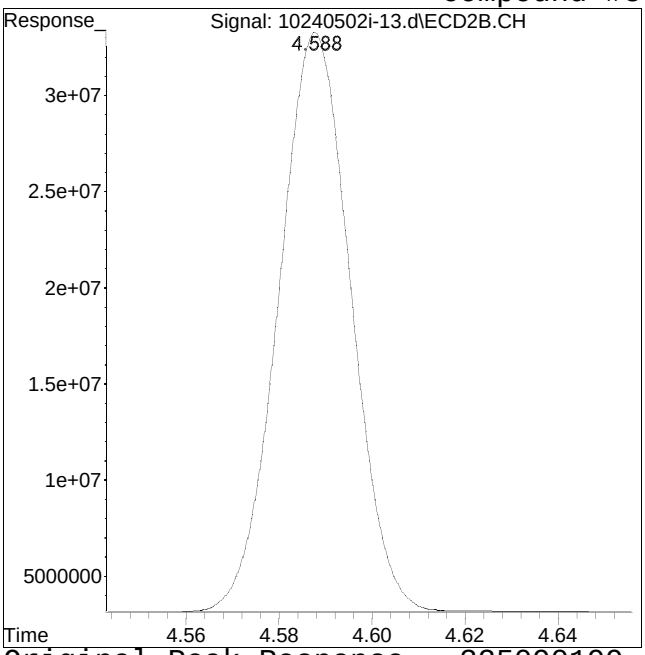
Manual Peak Response = 338320869 M4

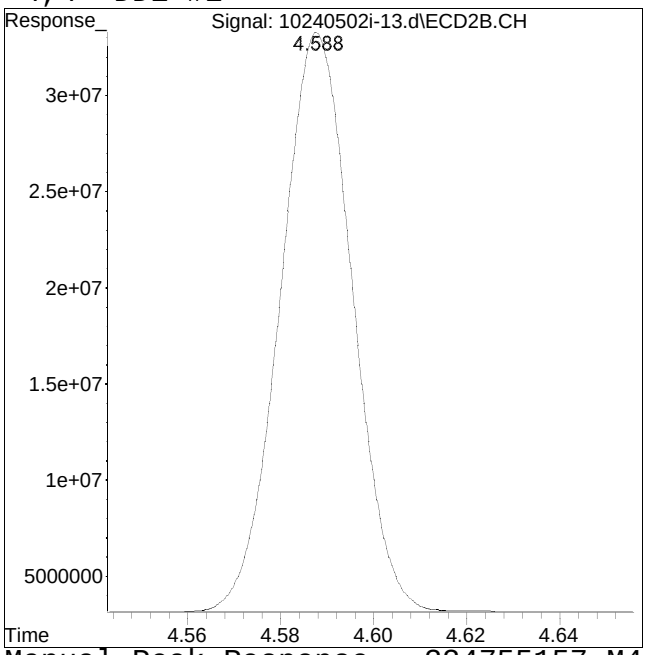
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-13.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 5:58 pm Instrument : Pest 10
Sample : cicvpest,42e,,pp 11536 L0.Quant Date : 5/9/2024 3:44 pm

Compound #53: 4,4'-DDE #2



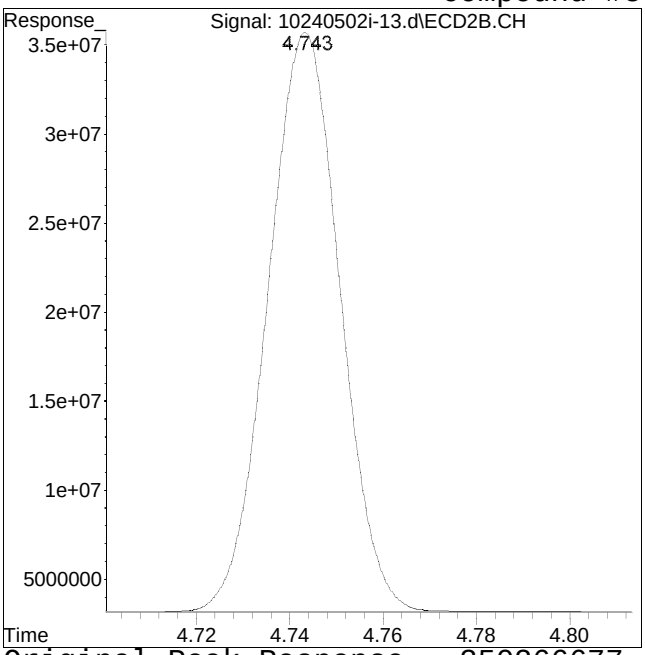


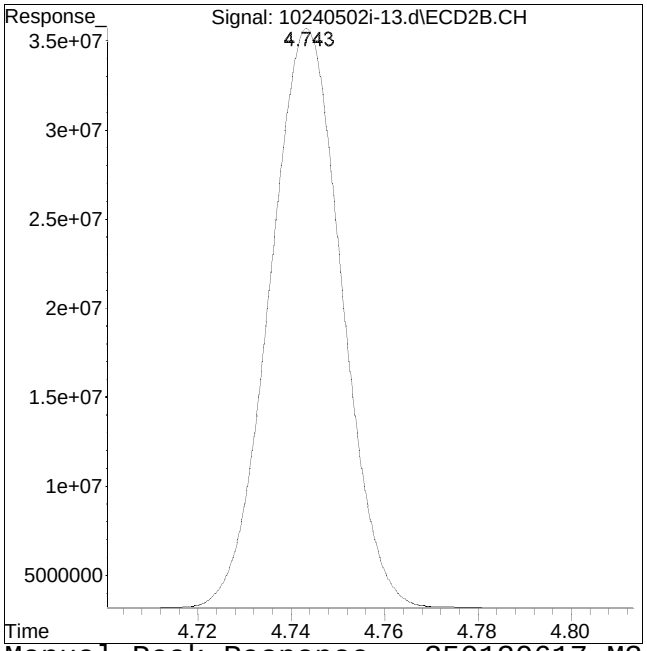
Original Peak Response = 325090199 Manual Peak Response = 324755157 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-13.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 5:58 pm Instrument : Pest 10
Sample : cicvpest,42e,,pp 11536 L0.Quant Date : 5/9/2024 3:44 pm

Compound #55: Dieldrin #2



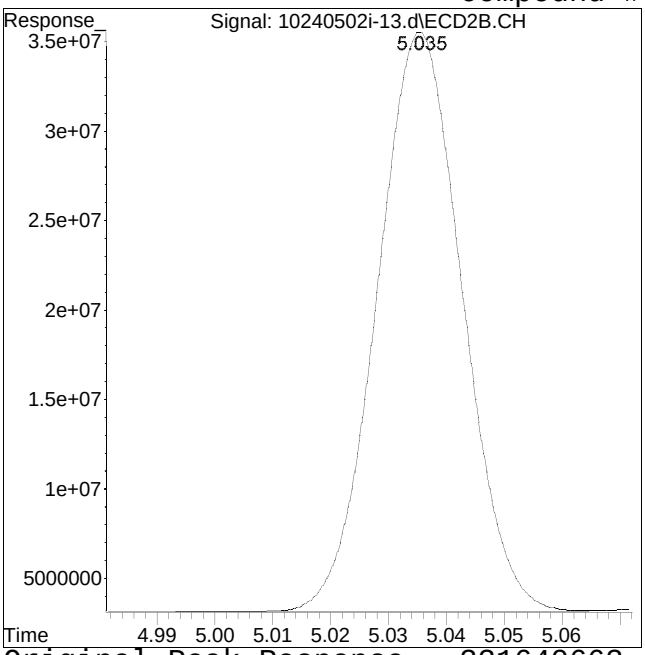


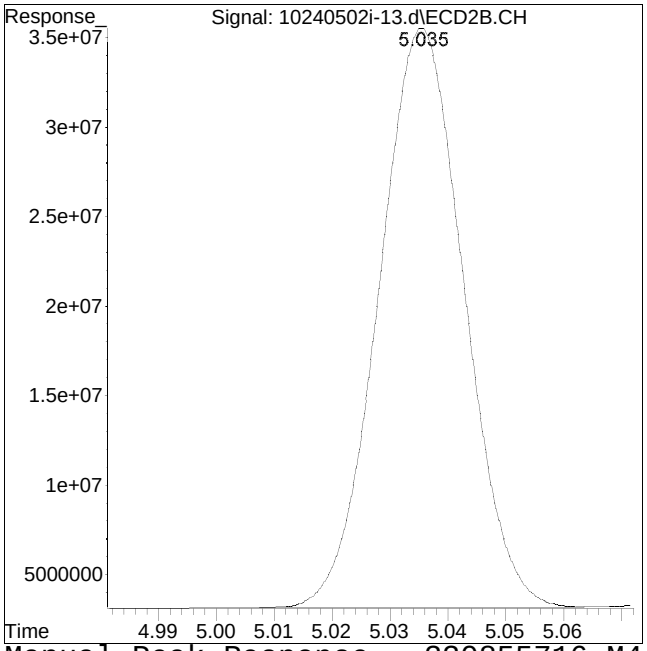
Original Peak Response = 350266677 Manual Peak Response = 350130617 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-13.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 5:58 pm Instrument : Pest 10
Sample : cicvpest,42e,,pp 11536 L0.Quant Date : 5/9/2024 3:44 pm

Compound #56: Endrin #2



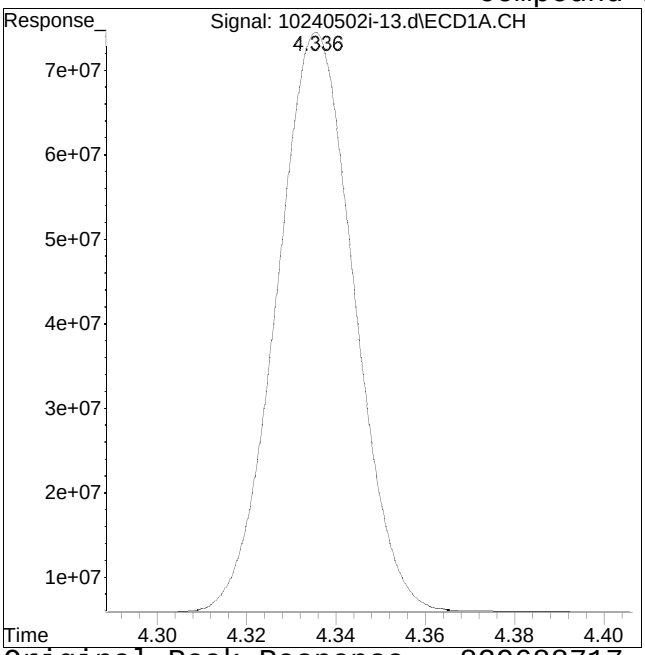


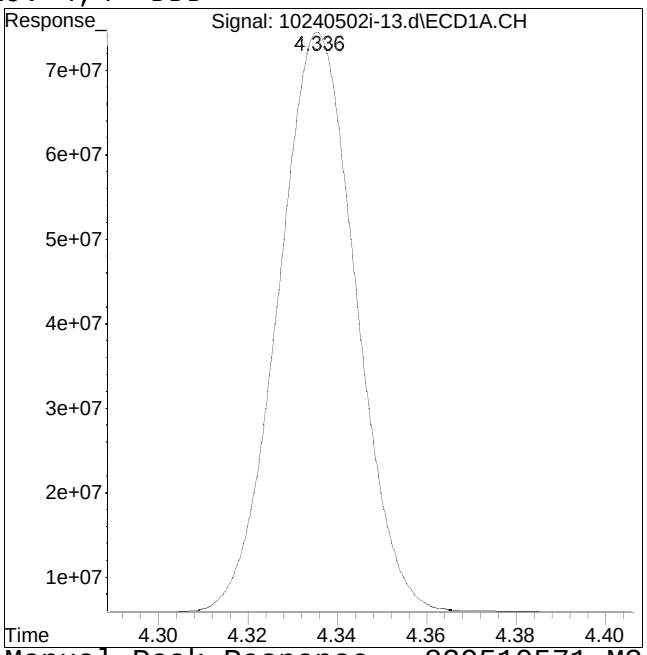
Original Peak Response = 331640663 Manual Peak Response = 330855716 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-13.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 5:58 pm Instrument : Pest 10
Sample : cicvpest,42e,,pp 11536 L0.Quant Date : 5/9/2024 3:44 pm

Compound #19: 4,4'-DDD



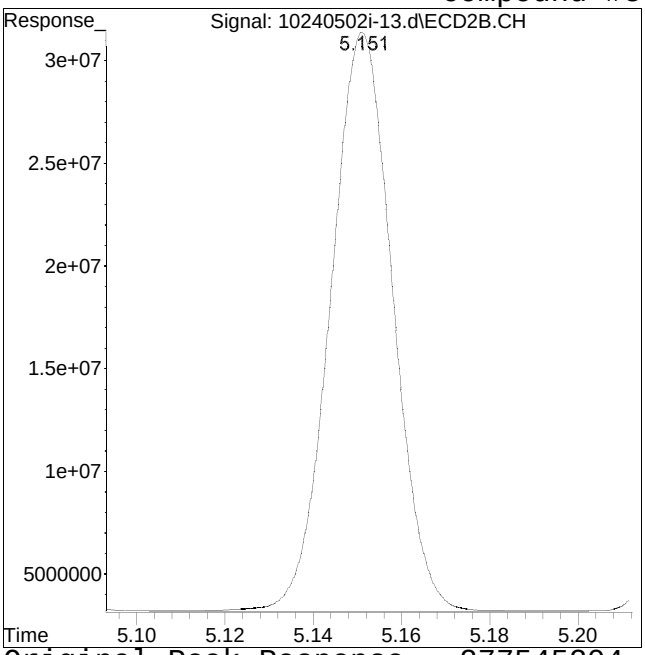


Original Peak Response = 829688717 Manual Peak Response = 829510571 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

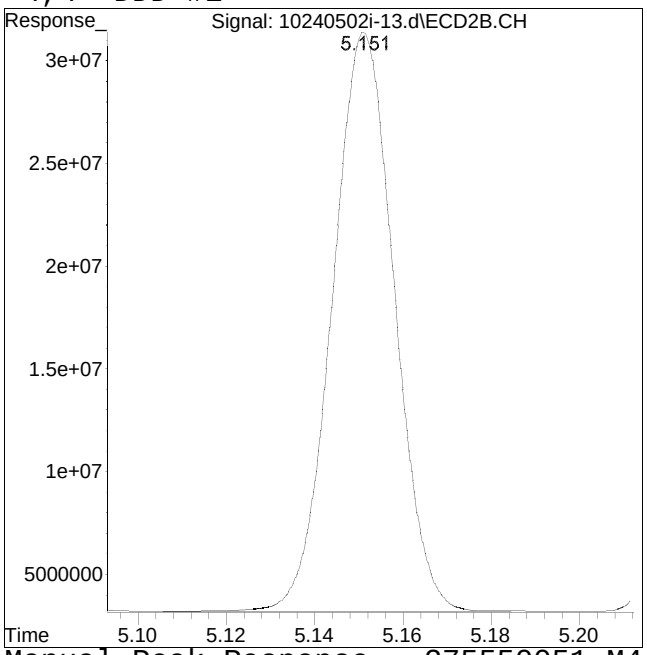
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-13.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 5:58 pm Instrument : Pest 10
Sample : cicvpest,42e,,pp 11536 L0.Quant Date : 5/9/2024 3:44 pm

Compound #57: 4,4'-DDD #2



Original Peak Response = 277545204



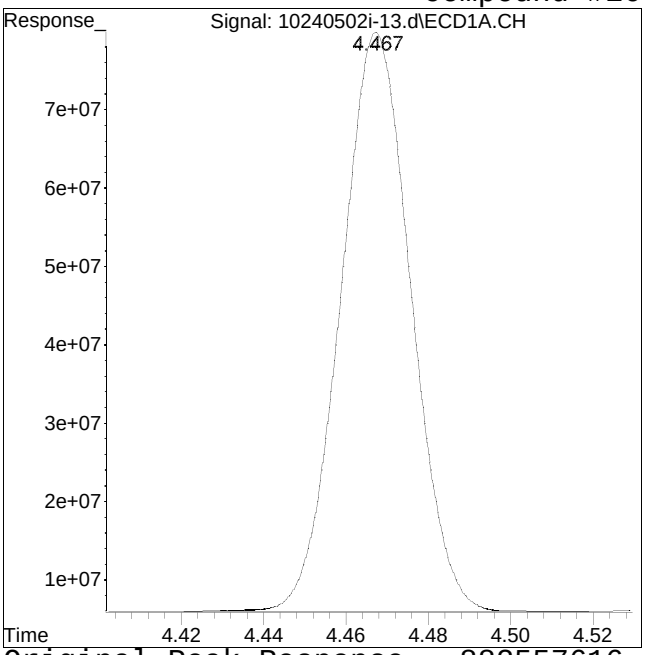
Manual Peak Response = 275550051 M4

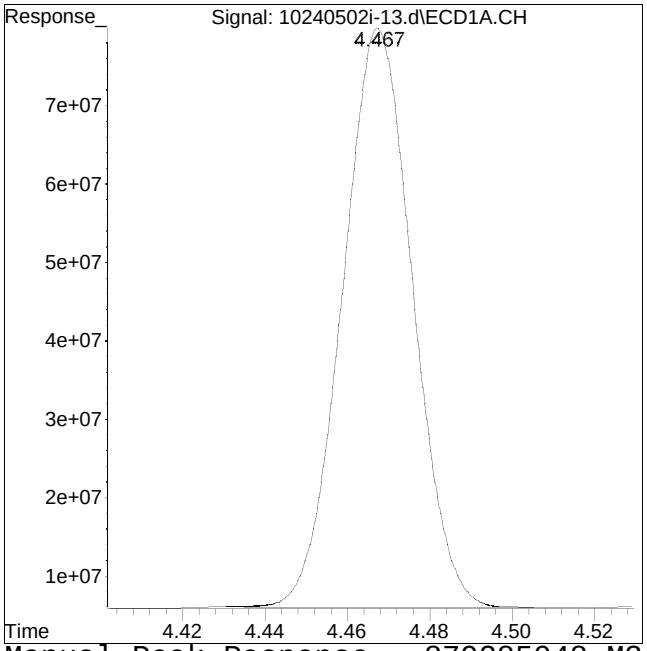
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-13.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 5:58 pm Instrument : Pest 10
Sample : cicvpest,42e,,pp 11536 L0.Quant Date : 5/9/2024 3:44 pm

Compound #20: Endosulfan II



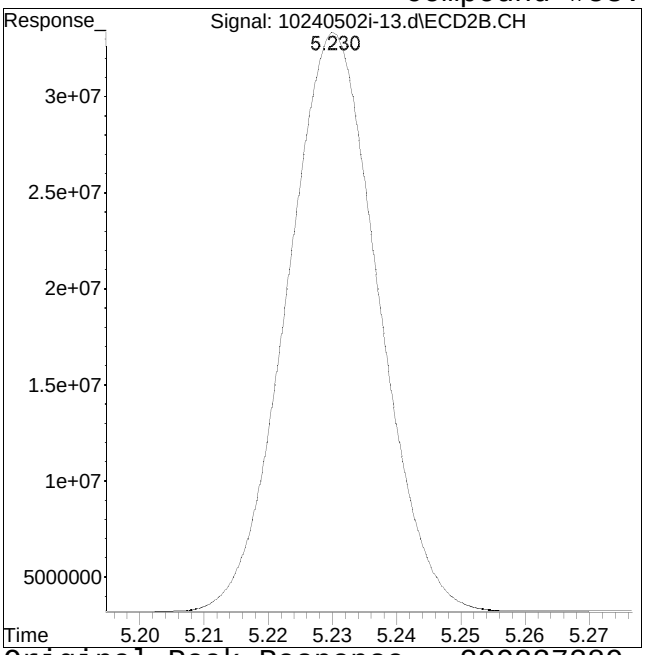


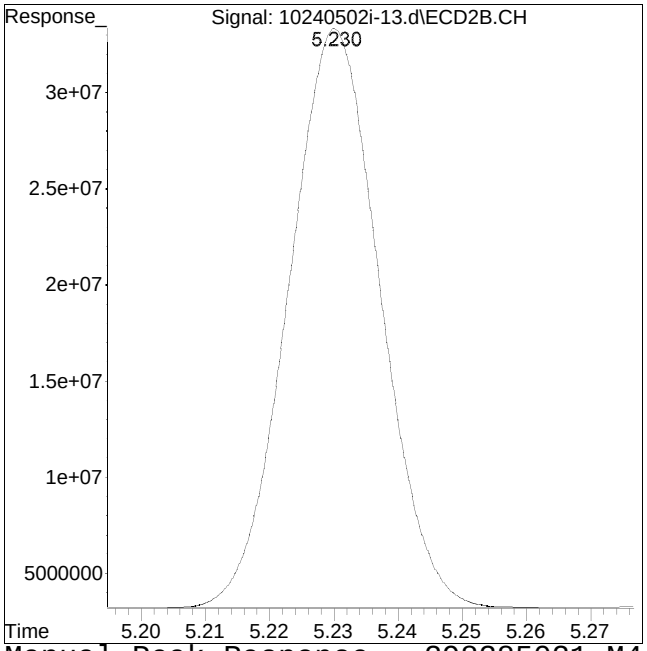
Original Peak Response = 882557616 Manual Peak Response = 879285048 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-13.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 5:58 pm Instrument : Pest 10
Sample : cicvpest,42e,,pp 11536 L0.Quant Date : 5/9/2024 3:44 pm

Compound #58: Endosulfan II #2



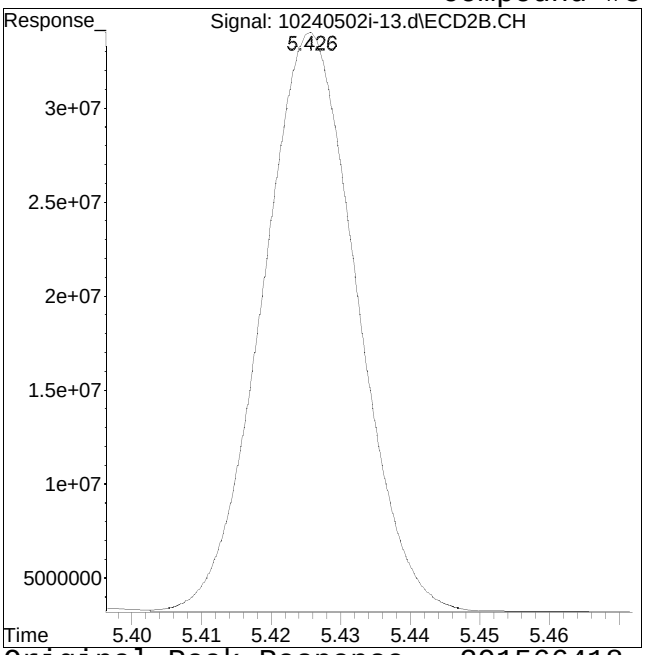


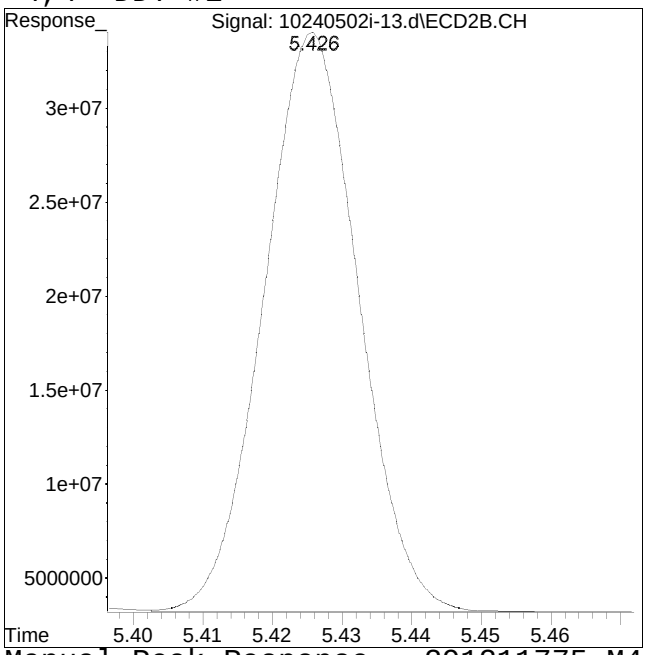
Original Peak Response = 299337389 Manual Peak Response = 298385021 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-13.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 5:58 pm Instrument : Pest 10
Sample : cicvpest,42e,,pp 11536 L0.Quant Date : 5/9/2024 3:44 pm

Compound #59: 4,4'-DDT #2



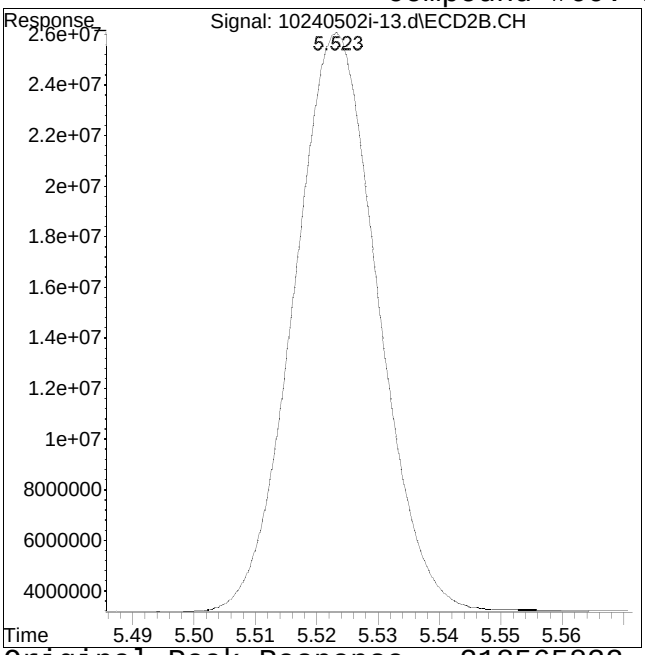


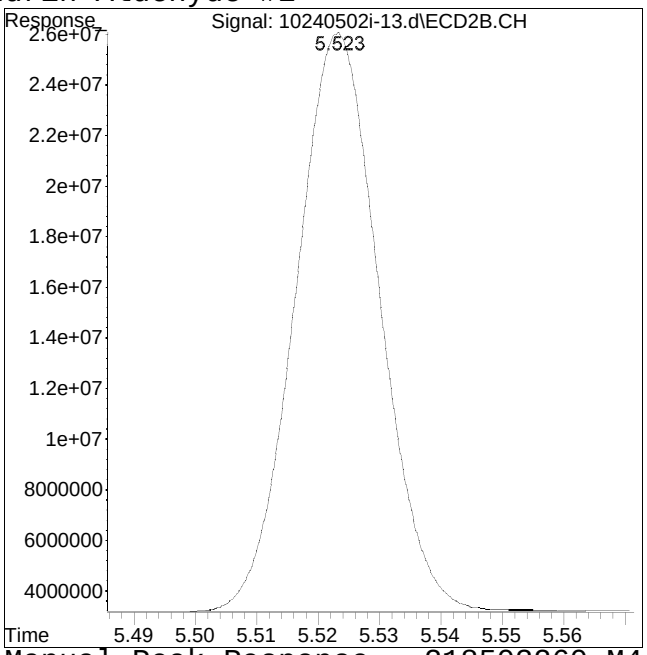
Original Peak Response = 291566418 Manual Peak Response = 291211775 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-13.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 5:58 pm Instrument : Pest 10
Sample : cicvpest,42e,,pp 11536 L0.Quant Date : 5/9/2024 3:44 pm

Compound #60: Endrin Aldehyde #2





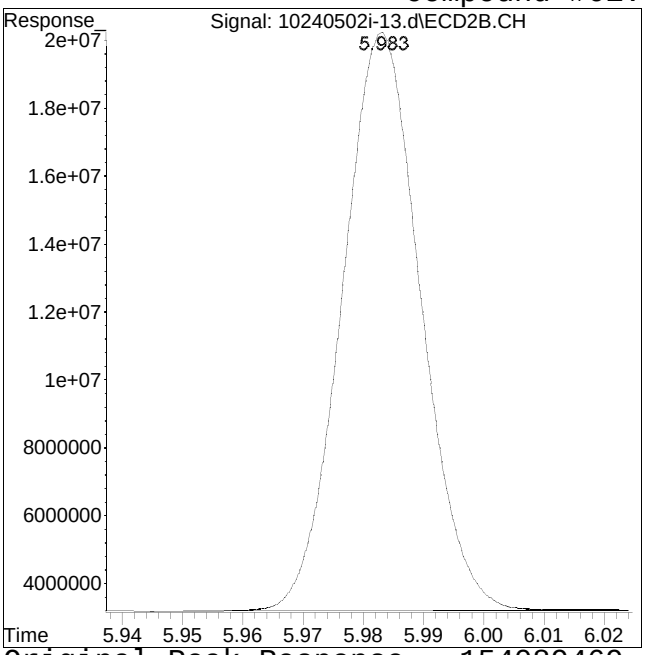
Original Peak Response = 218565832 Manual Peak Response = 218503260 M4
M4 = Poor automated baseline construction.

Manual Integration Report

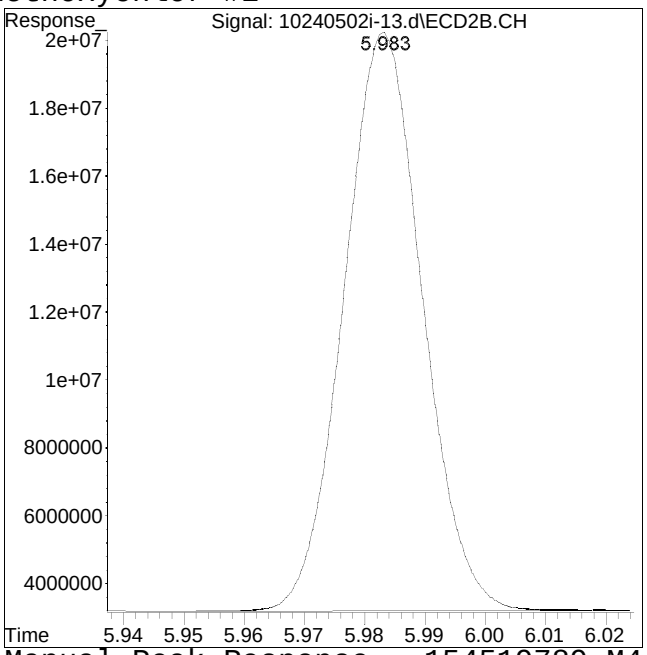
Data Path : I:\PEST\Pest10\2024\240502Q
Data File : 10240502i-13.d
Date Inj'd : 5/2/2024 5:58 pm
Sample : cicvpest,42e,,pp 11536 L0.

Method : pest10_2024_05_02_ugL_ic
Operator : PEST10:jag
Instrument : Pest 10
Quant Date : 5/9/2024 3:44 pm

Compound #61: Methoxychlor #2



Original Peak Response = 154089469



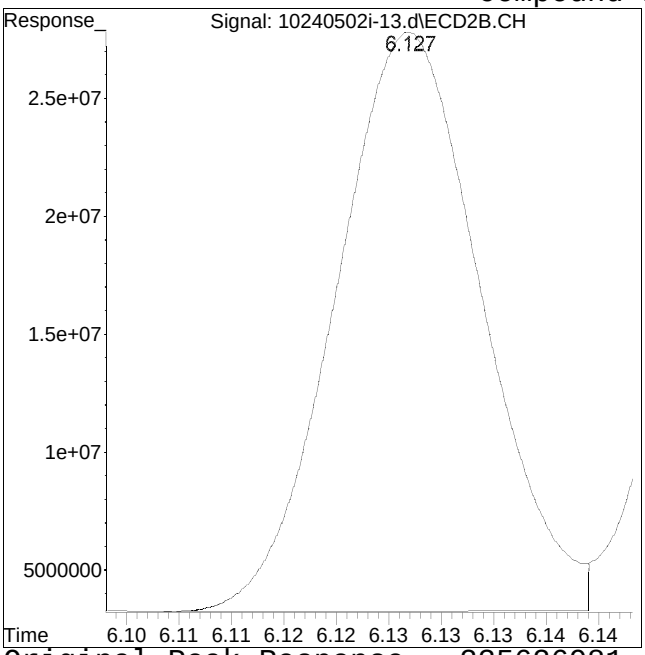
Manual Peak Response = 154519789 M4

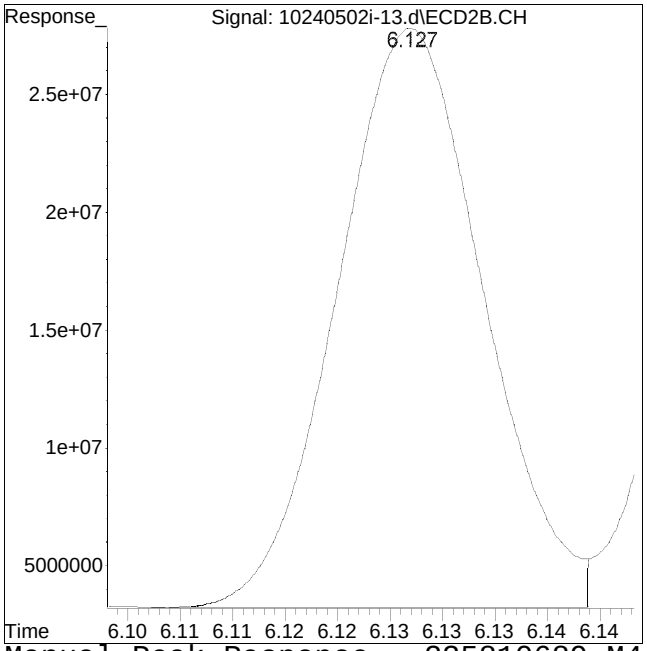
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-13.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 5:58 pm Instrument : Pest 10
Sample : cicvpest,42e,,pp 11536 L0.Quant Date : 5/9/2024 3:44 pm

Compound #62: Mirex #2



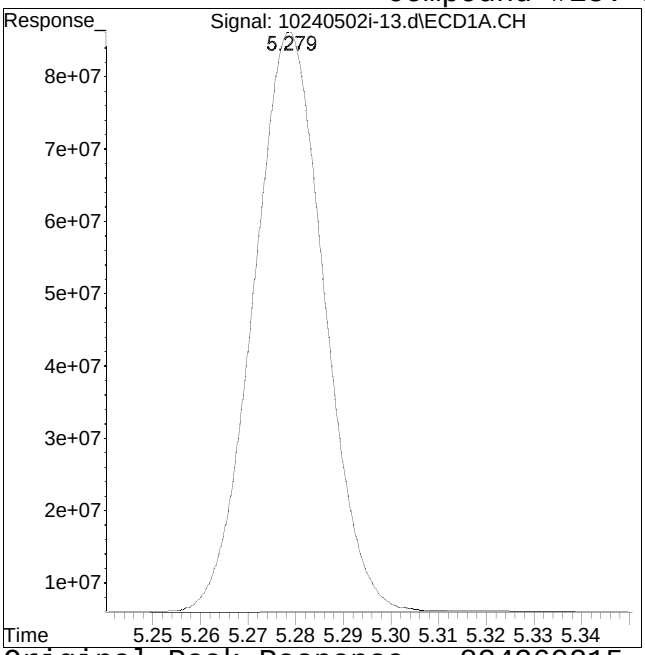


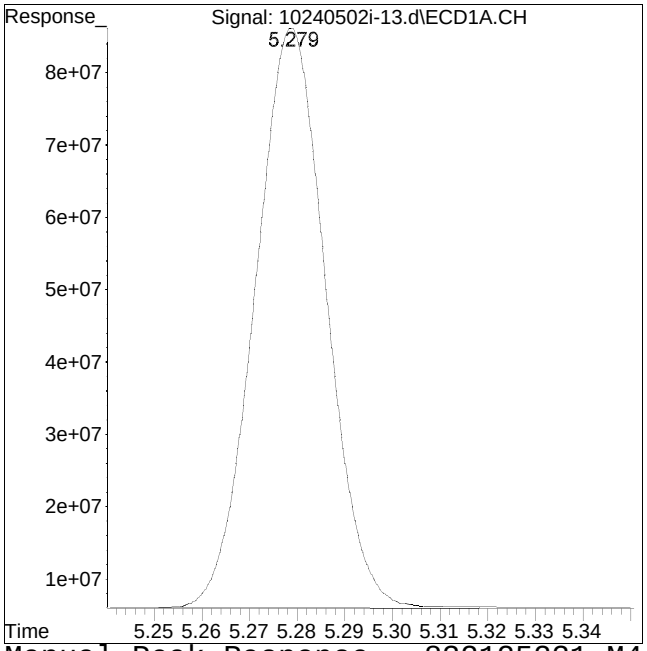
Original Peak Response = 235626981 Manual Peak Response = 235810689 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-13.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 5:58 pm Instrument : Pest 10
Sample : cicvpest,42e,,pp 11536 L0.Quant Date : 5/9/2024 3:44 pm

Compound #25: Endosulfan Sulfate



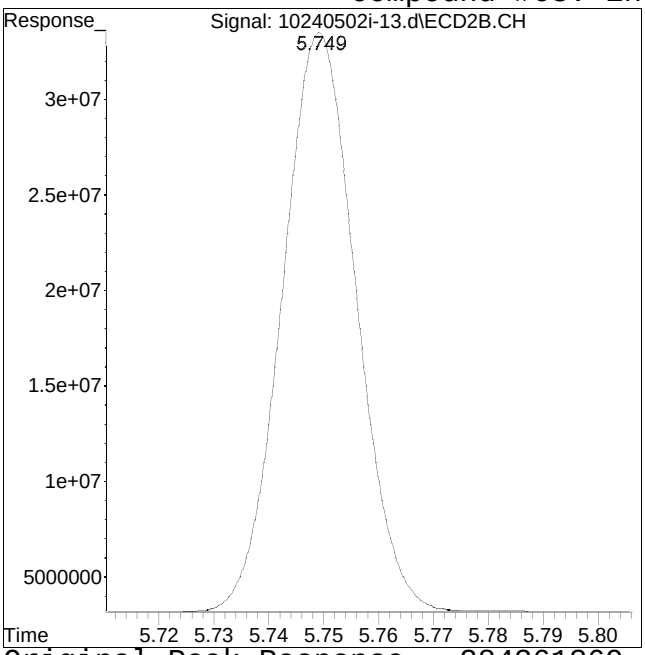


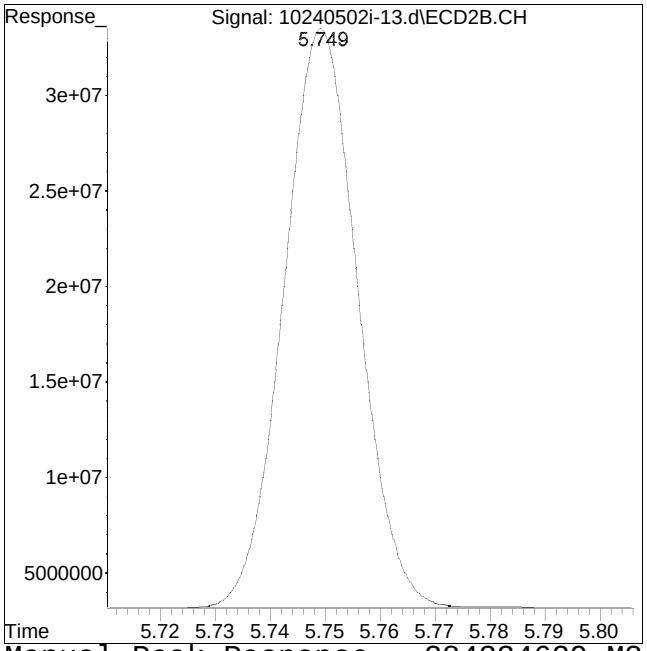
Original Peak Response = 834269215 Manual Peak Response = 832125231 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-13.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 5:58 pm Instrument : Pest 10
Sample : cicvpest,42e,,pp 11536 L0.Quant Date : 5/9/2024 3:44 pm

Compound #63: Endosulfan Sulfate #2



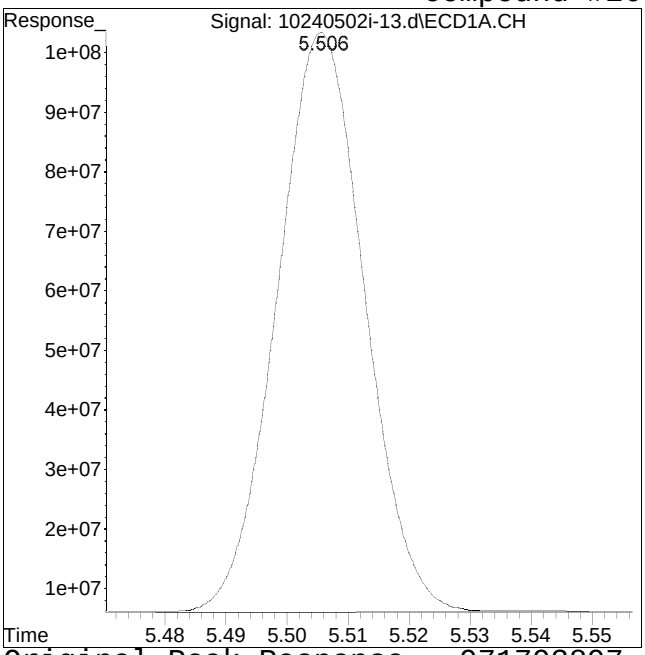


Original Peak Response = 284361369 Manual Peak Response = 284334629 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

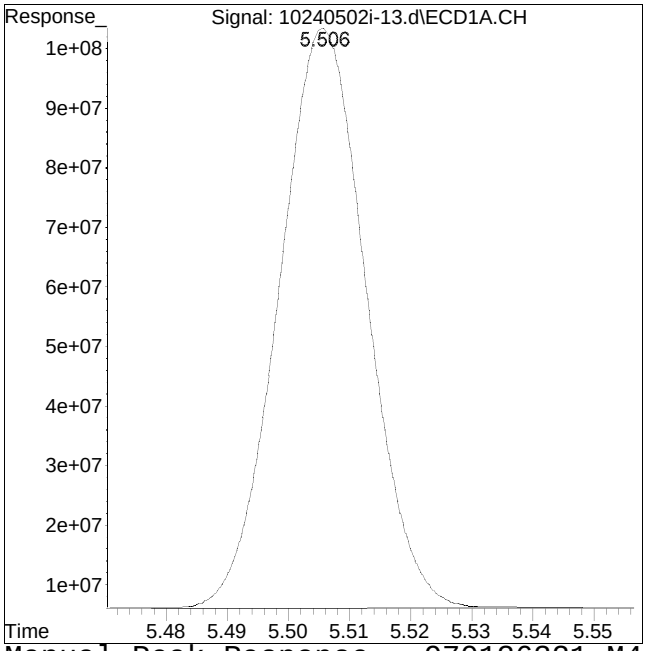
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-13.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 5:58 pm Instrument : Pest 10
Sample : cicvpest,42e,,pp 11536 L0.Quant Date : 5/9/2024 3:44 pm

Compound #26: Endrin Ketone



Original Peak Response = 971793897



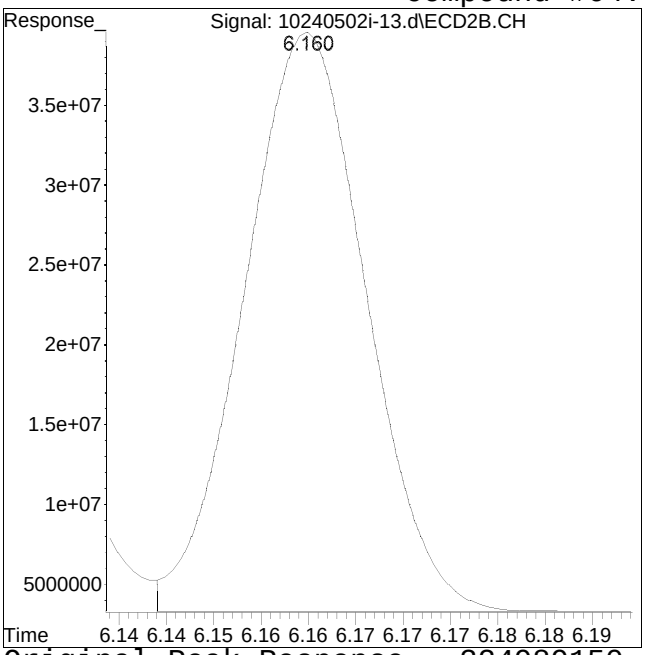
Manual Peak Response = 970136321 M4

M4 = Poor automated baseline construction.

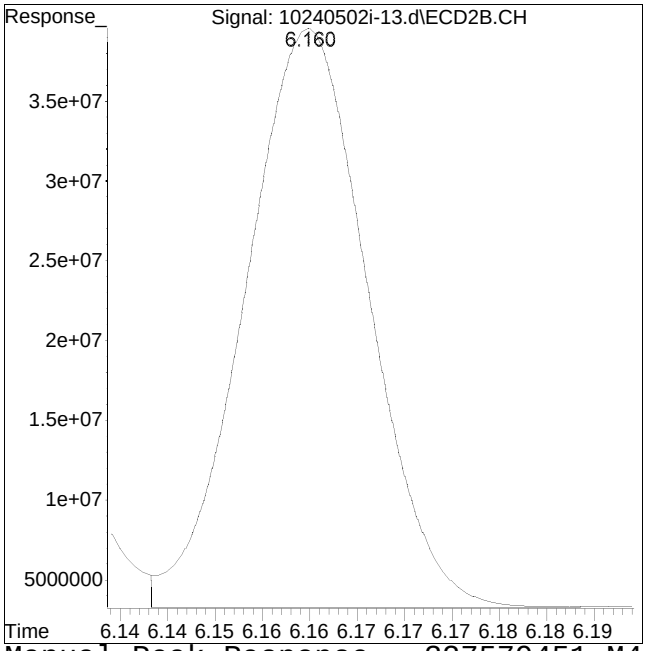
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-13.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 5:58 pm Instrument : Pest 10
Sample : cicvpest,42e,,pp 11536 L0.Quant Date : 5/9/2024 3:44 pm

Compound #64: Endrin Ketone #2



Original Peak Response = 324989150



Manual Peak Response = 327579451 M4

M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest10\2024\240502ical\
Data File : 10240502i-14.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 May 2024 6:09 pm
Operator : PEST10:jag
Sample : il3chlor,42e,,pp 11509 L0.01
Misc : wg1919460, (Sig #1); ical (Sig #2)
ALS Vial : 14 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 07 17:59:07 2024
Quant Method : I:\PEST\Pest10\2024\240502ical\pest10_2024_05_02_ugL_ical.m
Quant Title : pest
QLast Update : Tue May 07 17:58:57 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

		Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
		Internal Standards						
1)	i	1-br-2-nb_Pe	0.000	0.000	0	0	N.D. d	N.D. d
28)	i	1-br-2-nb_Ch	1.317	1.428	360.3E6	128.9E6	25.000M3	25.000M4
33)	i	1-br-2-nb_To	0.000	0.000	0	0	N.D. d	N.D. d
		System Monitoring Compounds						
2)	s	2,4,5,6-Tetr	0.000	0.000	0	0	N.D. d	N.D. d
		Spiked Amount	50.000	Range 30 - 150		Recovery =	0.00%#	0.00%#
27)	s	Decachlorobi	0.000	0.000	0	0	N.D. d	N.D. d
		Spiked Amount	50.000	Range 30 - 150		Recovery =	0.00%#	0.00%#
		Target Compounds						
3)	t	Hexachlorobe	0.000	0.000	0	0	N.D. d	N.D. d
4)	t	alpha-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5)	t	gamma-BHC (l	0.000	0.000	0	0	N.D. d	N.D. d
6)	t	beta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7)	t	delta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
8)	t	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
9)	t	Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
10)	t	Alachlor	0.000	0.000	0	0	N.D. d	N.D. d
11)	t	Chlorpyrifos	0.000	0.000	0	0	N.D. d	N.D. d
12)	t	Heptachlor E	0.000	0.000	0	0	N.D. d	N.D. d
13)	t	gamma-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
14)	t	alpha-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
15)	t	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
16)	t	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
17)	t	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
18)	t	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
19)	t	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
20)	t	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
21)	t	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
22)	t	Endrin Aldeh	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest10\2024\240502ical\
Data File : 10240502i-14.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 May 2024 6:09 pm
Operator : PEST10:jag
Sample : il3chlor,42e,,pp 11509 L0.01
Misc : wg1919460, (Sig #1); ical (Sig #2)
ALS Vial : 14 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 07 17:59:07 2024
Quant Method : I:\PEST\Pest10\2024\240502ical\pest10_2024_05_02_ugL_ical.m
Quant Title : pest
QLast Update : Tue May 07 17:58:57 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
23) t	Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d
24) t	Mirex	0.000	0.000	0	0	N.D. d	N.D. d
25) t	Endosulfan S	0.000	0.000	0	0	N.D. d	N.D. d
26) t	Endrin Keton	0.000	0.000	0	0	N.D. d	N.D. d
29) l1	chlordane-1	2.464	2.914	6940641	2272648	12.721	13.228
30) l1	chlordane-3	2.527	3.536	13432546	2897436	12.425	13.830M4
31) l1	chlordane-4	2.883	4.233	9013626	8325121	13.779	12.299
32) l1	chlordane-5	3.440	4.399	29670520	6857312	12.763	12.728
Sum	chlordane-1			59057334	20352517	NoCal	NoCal D
Average	chlordane-1					12.922	13.021
34) l2	toxaphene-1	0.000	0.000	0	0	N.D. d	N.D. d
35) l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
36) l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
37) l2	toxaphene-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

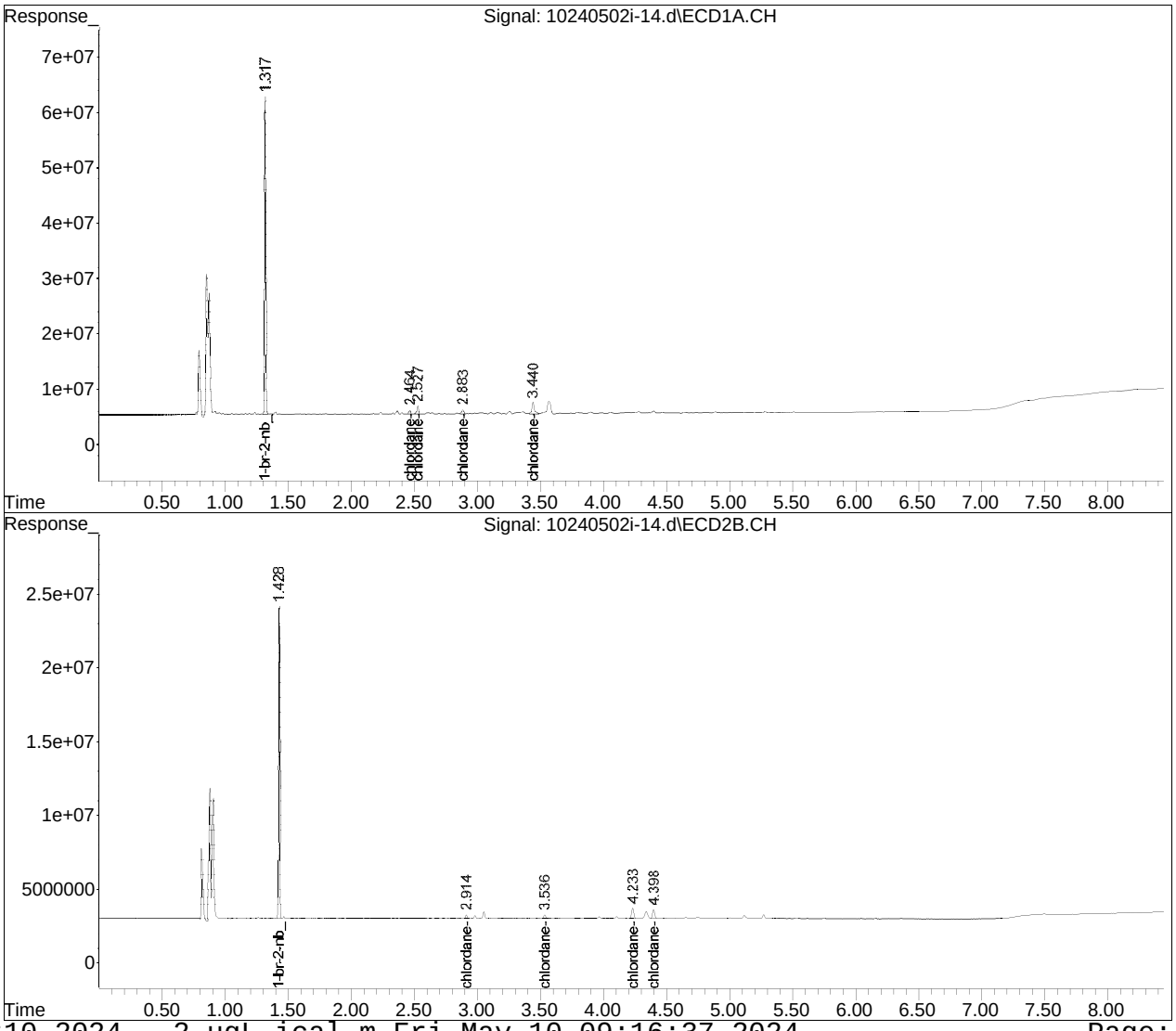
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest10\2024\240502ical\
Data File : 10240502i-14.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 May 2024 6:09 pm
Operator : PEST10:jag
Sample : il3chlor,42e,,pp 11509 L0.01
Misc : wg1919460, (Sig #1); ical (Sig #2)
ALS Vial : 14 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 07 17:59:07 2024
Quant Method : I:\PEST\Pest10\2024\240502ical\pest10_2024_05_02_ugL_ical.m
Quant Title : pest
QLast Update : Tue May 07 17:58:57 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

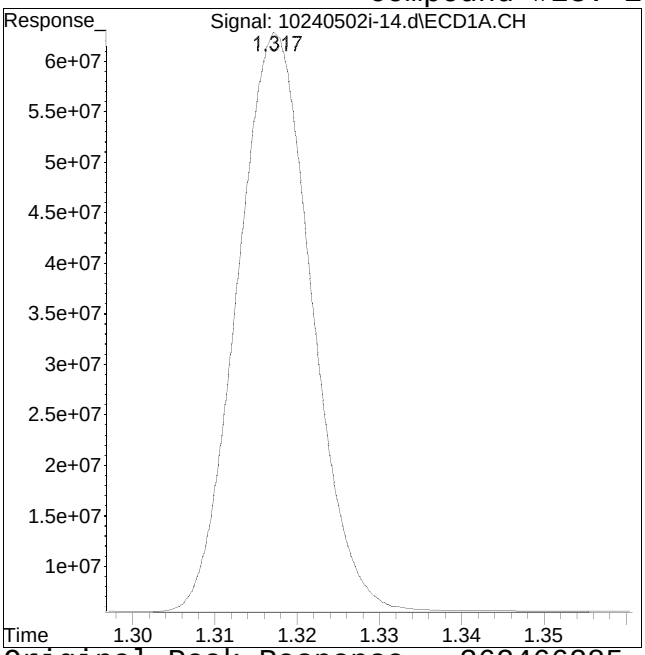
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

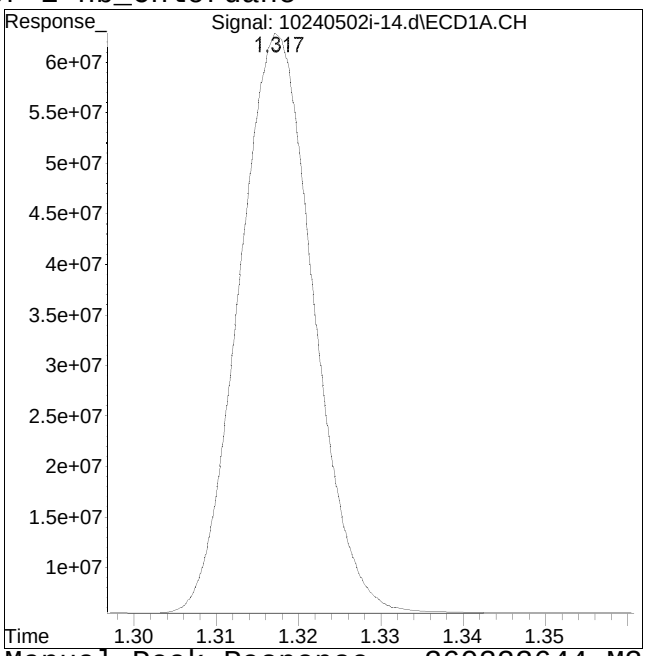


Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-14.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 6:09 pm Instrument : Pest 10
Sample : il3chlor,42e,,pp 11509 L0.Quant Date : 5/7/2024 5:59 pm

Compound #28: 1-br-2-nb_Chlordane



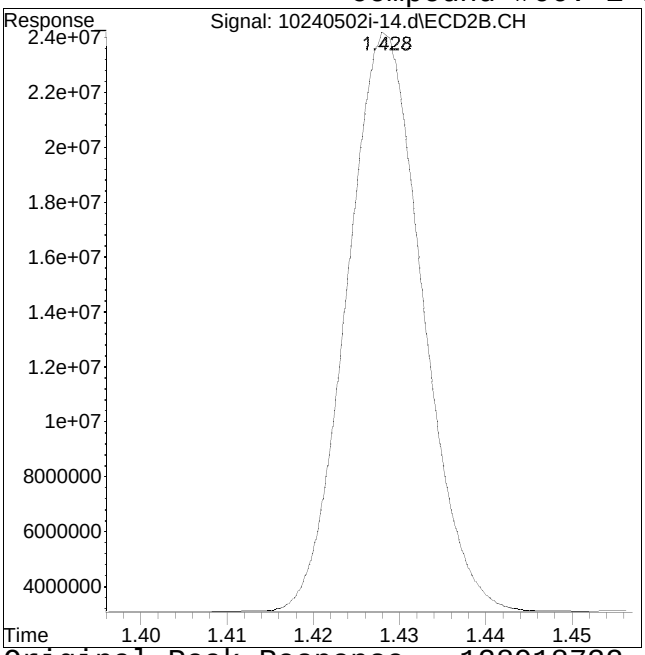


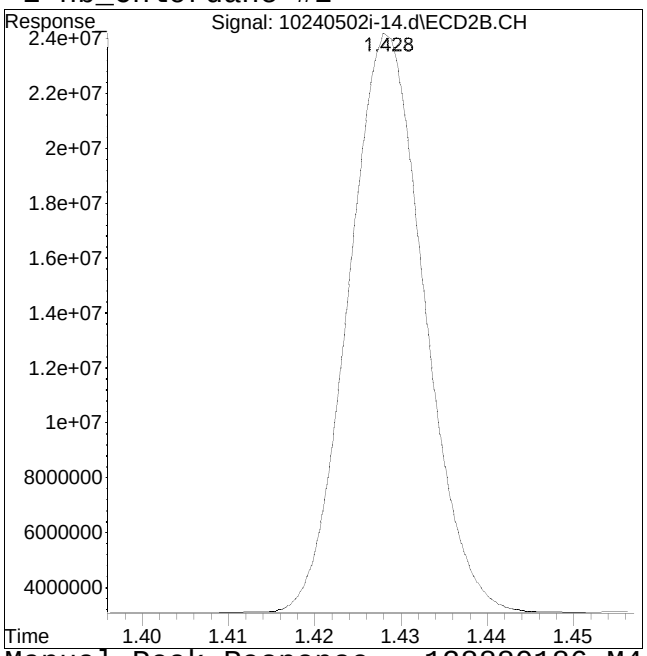
Original Peak Response = 362466285 Manual Peak Response = 360323644 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-14.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 6:09 pm Instrument : Pest 10
Sample : il3chlor,42e,,pp 11509 L0.Quant Date : 5/7/2024 5:59 pm

Compound #66: 1-br-2-nb_Chlordane #2





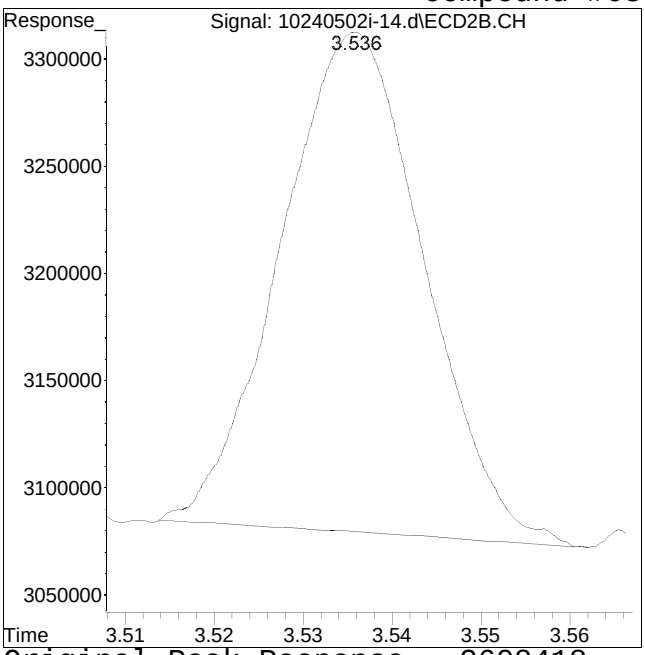
Original Peak Response = 128918732 Manual Peak Response = 128880186 M4
M4 = Poor automated baseline construction.

Manual Integration Report

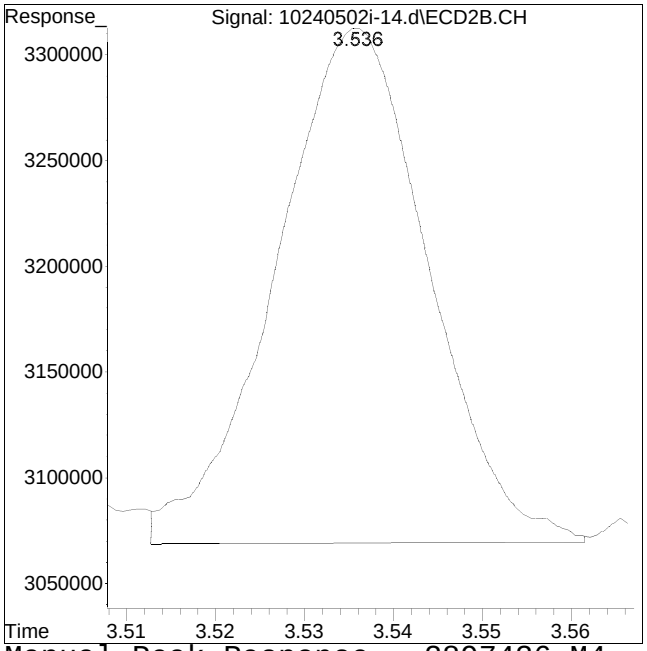
Data Path : I:\PEST\Pest10\2024\240502Q
Data File : 10240502i-14.d
Date Inj'd : 5/2/2024 6:09 pm
Sample : il3chlor,42e,,pp 11509 L0.

Method : pest10_2024_05_02_ugL_ic
Operator : PEST10:jag
Instrument : Pest 10
Quant Date : 5/7/2024 5:59 pm

Compound #68: chlordane-3 #2



Original Peak Response = 2608418



Manual Peak Response = 2897436 M4

M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest10\2024\240502ical\
Data File : 10240502i-15.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 May 2024 6:20 pm
Operator : PEST10:jag
Sample : il4chlor,42e,,pp 11508 L0.02
Misc : wg1919460, (Sig #1); ical (Sig #2)
ALS Vial : 15 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 07 17:57:55 2024
Quant Method : I:\PEST\Pest10\2024\240502ical\pest10_2024_05_02_ugL_ical.m
Quant Title : pest
QLast Update : Tue May 07 17:57:43 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	0.000	0.000	0	0	N.D. d	N.D. d
28) i	1-br-2-nb_Ch	1.318	1.428	357.4E6	125.8E6	25.000M3	25.000M4
33) i	1-br-2-nb_To	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150		Recovery =	0.00%#	0.00%#
27) s	Decachlorobi	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150		Recovery =	0.00%#	0.00%#
	Target Compounds						
3) t	Hexachlorobe	0.000	0.000	0	0	N.D. d	N.D. d
4) t	alpha-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5) t	gamma-BHC (l	0.000	0.000	0	0	N.D. d	N.D. d
6) t	beta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7) t	delta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
8) t	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
9) t	Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
10) t	Alachlor	0.000	0.000	0	0	N.D. d	N.D. d
11) t	Chlorpyrifos	0.000	0.000	0	0	N.D. d	N.D. d
12) t	Heptachlor E	0.000	0.000	0	0	N.D. d	N.D. d
13) t	gamma-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
14) t	alpha-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
15) t	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
16) t	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
17) t	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
18) t	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
19) t	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
20) t	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
21) t	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
22) t	Endrin Aldeh	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest10\2024\240502ical\
Data File : 10240502i-15.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 May 2024 6:20 pm
Operator : PEST10:jag
Sample : il4chlor,42e,,pp 11508 L0.02
Misc : wg1919460, (Sig #1); ical (Sig #2)
ALS Vial : 15 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 07 17:57:55 2024
Quant Method : I:\PEST\Pest10\2024\240502ical\pest10_2024_05_02_ugL_ical.m
Quant Title : pest
QLast Update : Tue May 07 17:57:43 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
23) t	Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d
24) t	Mirex	0.000	0.000	0	0	N.D. d	N.D. d
25) t	Endosulfan S	0.000	0.000	0	0	N.D. d	N.D. d
26) t	Endrin Keton	0.000	0.000	0	0	N.D. d	N.D. d
29) l1	chlordane-1	2.465	2.915	13161108	4184874	25.419	26.253
30) l1	chlordane-3	2.527	3.536	25778382	5544856	25.054	29.190M4
31) l1	chlordane-4	2.884	4.233	16576241	15278597	27.051	23.867
32) l1	chlordane-5	3.440	4.399	55263336	12620038	24.959	24.995
Sum	chlordane-1			110.8E6	37628365	NoCal	NoCal D
Average	chlordane-1					25.621	26.076
34) l2	toxaphene-1	0.000	0.000	0	0	N.D. d	N.D. d
35) l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
36) l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
37) l2	toxaphene-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

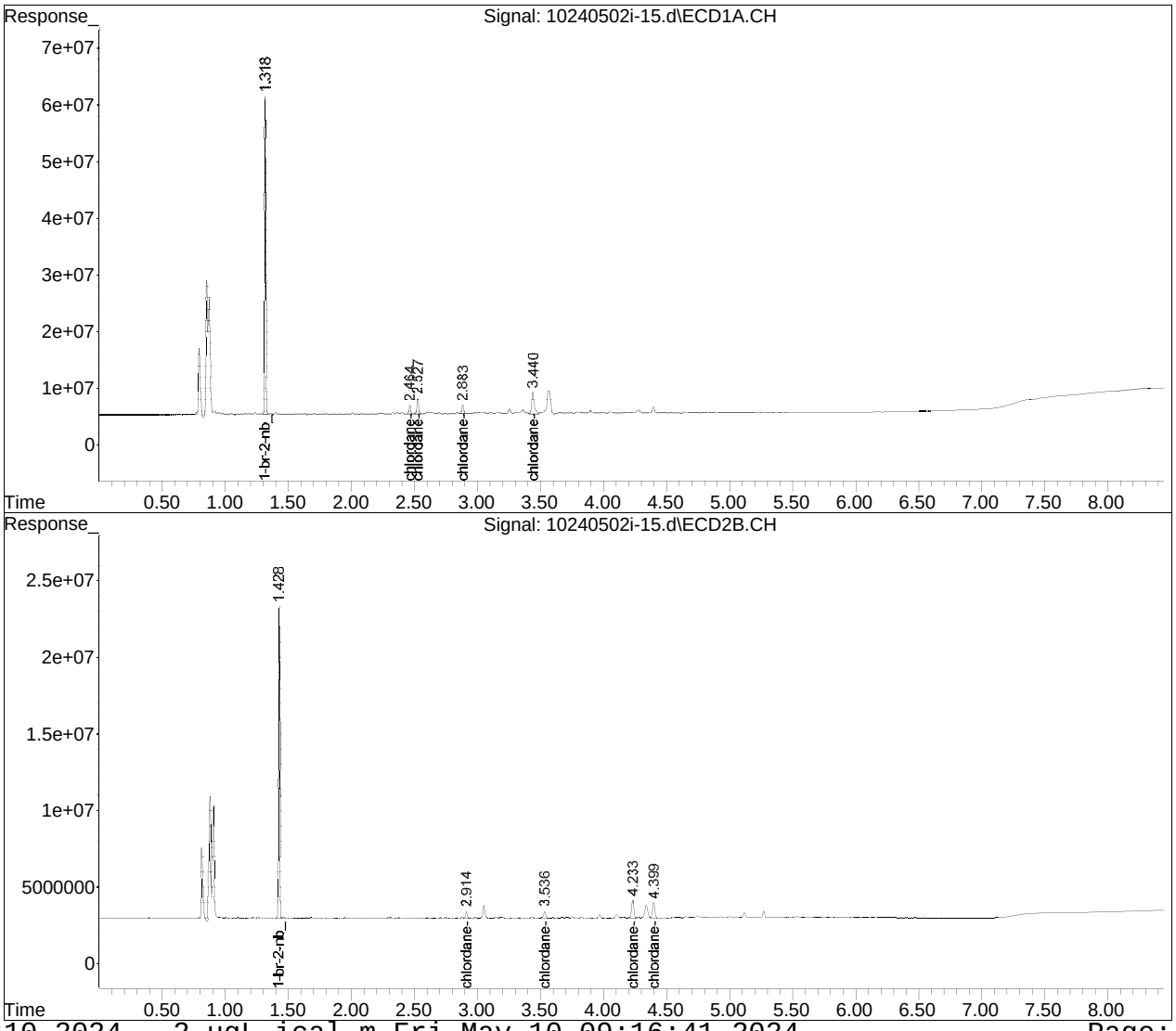
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest10\2024\240502ical\
Data File : 10240502i-15.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 May 2024 6:20 pm
Operator : PEST10:jag
Sample : il4chlor,42e,,pp 11508 L0.02
Misc : wg1919460, (Sig #1); ical (Sig #2)
ALS Vial : 15 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 07 17:57:55 2024
Quant Method : I:\PEST\Pest10\2024\240502ical\pest10_2024_05_02_ugL_ical.m
Quant Title : pest
QLast Update : Tue May 07 17:57:43 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

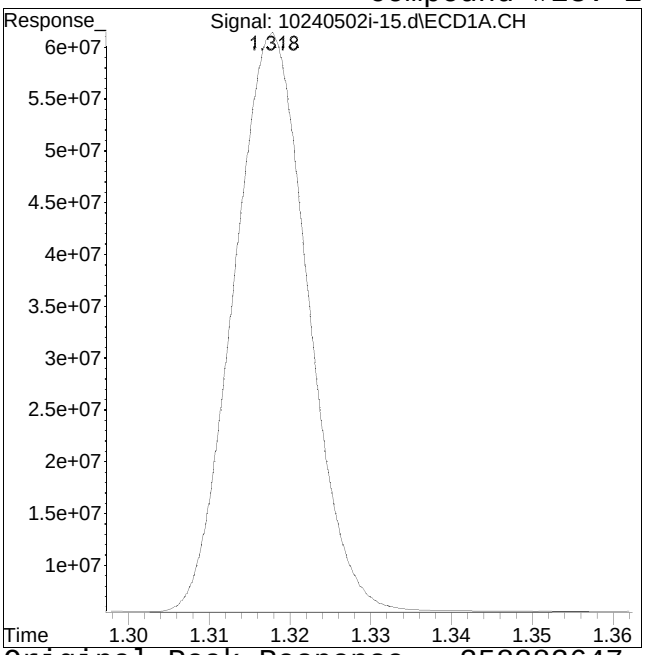
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

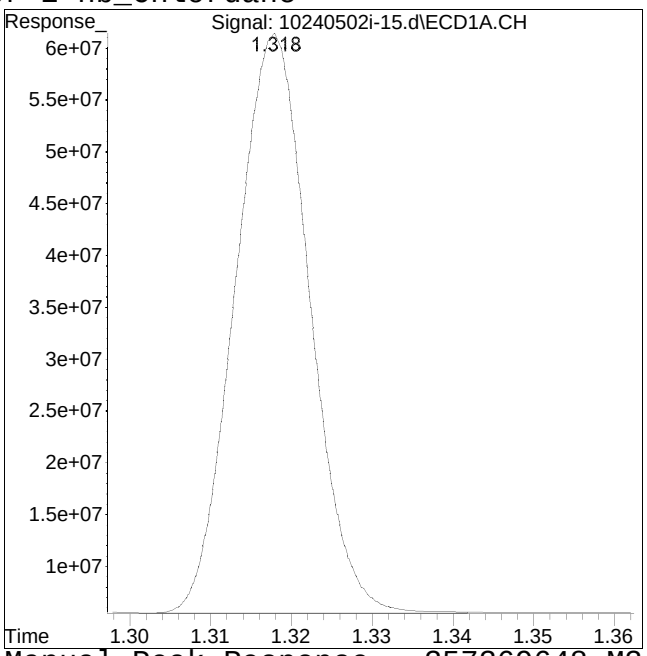


Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-15.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 6:20 pm Instrument : Pest 10
Sample : il4chlor,42e,,pp 11508 L0.Quant Date : 5/7/2024 5:57 pm

Compound #28: 1-br-2-nb_Chlordane



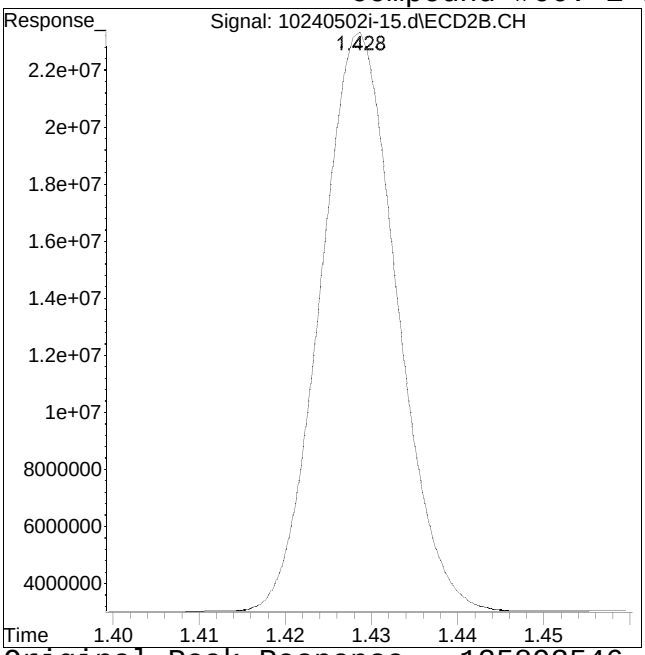


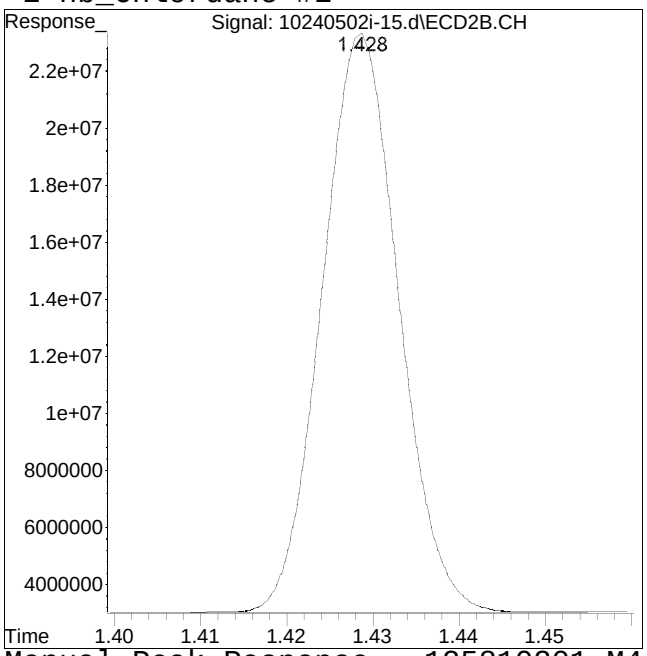
Original Peak Response = 358383647 Manual Peak Response = 357369648 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-15.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 6:20 pm Instrument : Pest 10
Sample : il4chlor,42e,,pp 11508 L0.Quant Date : 5/7/2024 5:57 pm

Compound #66: 1-br-2-nb_Chlordane #2



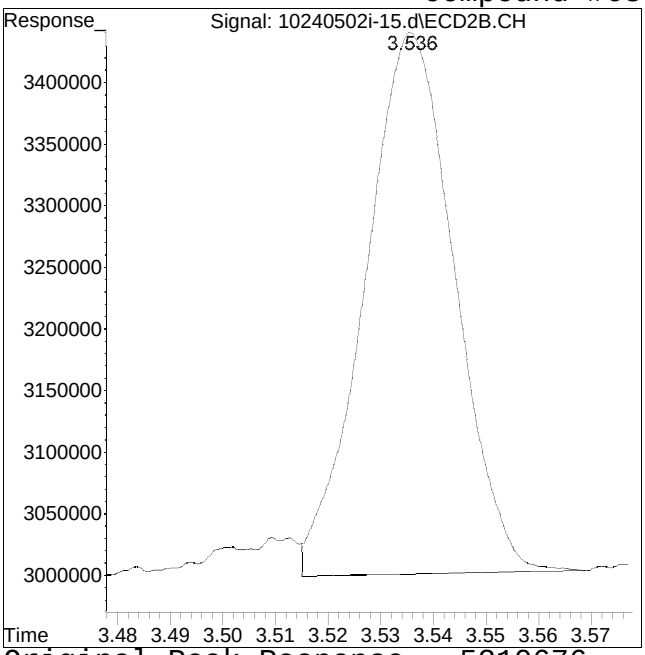


Original Peak Response = 125893546 Manual Peak Response = 125810201 M4
M4 = Poor automated baseline construction.

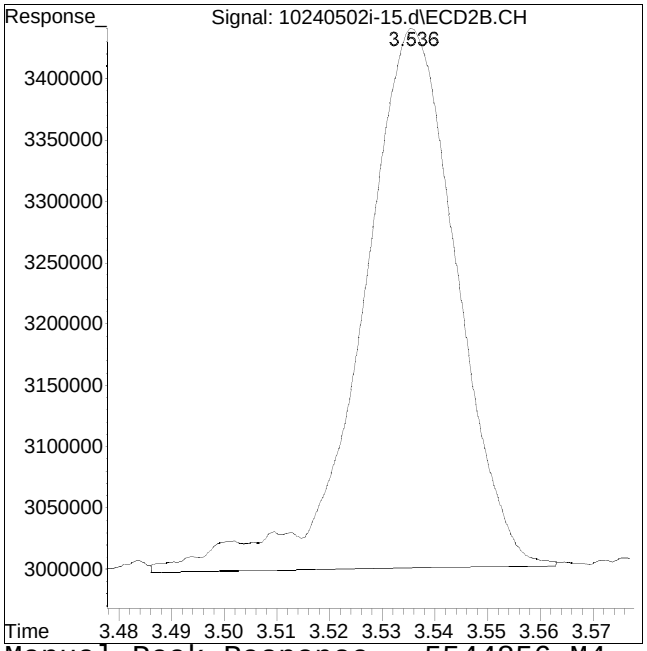
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-15.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 6:20 pm Instrument : Pest 10
Sample : il4chlor,42e,,pp 11508 L0.Quant Date : 5/7/2024 5:57 pm

Compound #68: chlordane-3 #2



Original Peak Response = 5210676



Manual Peak Response = 5544856 M4

M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest10\2024\240502ical\
Data File : 10240502i-16.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 May 2024 6:31 pm
Operator : PEST10:jag
Sample : il5chlor,42e,,pp 11507 L0.1
Misc : wg1919460, (Sig #1); ical (Sig #2)
ALS Vial : 16 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 07 17:56:22 2024
Quant Method : I:\PEST\Pest10\2024\240502ical\pest10_2024_05_02_ugL_ical.m
Quant Title : pest
QLast Update : Tue May 07 17:56:09 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	0.000	0.000	0	0	N.D. d	N.D. d
28) i	1-br-2-nb_Ch	1.318	1.429	364.5E6	132.9E6	25.000	25.000
33) i	1-br-2-nb_To	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150	Recovery	=	0.00%#	0.00%#
27) s	Decachlorobi	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150	Recovery	=	0.00%#	0.00%#
	Target Compounds						
3) t	Hexachlorobe	0.000	0.000	0	0	N.D. d	N.D. d
4) t	alpha-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5) t	gamma-BHC (l	0.000	0.000	0	0	N.D. d	N.D. d
6) t	beta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7) t	delta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
8) t	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
9) t	Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
10) t	Alachlor	0.000	0.000	0	0	N.D. d	N.D. d
11) t	Chlorpyrifos	0.000	0.000	0	0	N.D. d	N.D. d
12) t	Heptachlor E	0.000	0.000	0	0	N.D. d	N.D. d
13) t	gamma-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
14) t	alpha-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
15) t	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
16) t	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
17) t	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
18) t	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
19) t	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
20) t	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
21) t	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
22) t	Endrin Aldeh	0.000	0.000	0	0	N.D. d	N.D. d
23) t	Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest10\2024\240502ical\
Data File : 10240502i-16.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 May 2024 6:31 pm
Operator : PEST10:jag
Sample : il5chlor,42e,,pp 11507 L0.1
Misc : wg1919460, (Sig #1); ical (Sig #2)
ALS Vial : 16 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 07 17:56:22 2024
Quant Method : I:\PEST\Pest10\2024\240502ical\pest10_2024_05_02_ugL_ical.m
Quant Title : pest
QLast Update : Tue May 07 17:56:09 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
24) t	Mirex	0.000	0.000	0	0	N.D. d	N.D. d
25) t	Endosulfan S	0.000	0.000	0	0	N.D. d	N.D. d
26) t	Endrin Keton	0.000	0.000	0	0	N.D. d	N.D. d
29) l1	chlordane-1	2.464	2.915	57132274	18660656	110.459	113.898
30) l1	chlordane-3	2.526	3.536	111.4E6	24293128	107.827	127.791M4
31) l1	chlordane-4	2.883	4.233	72780381	70399905	121.457	105.185
32) l1	chlordane-5	3.439	4.399	229.0E6	56797658	101.770	108.248
Sum	chlordane-1			470.3E6	170.2E6	NoCal	NoCal D
Average	chlordane-1					110.378	113.780
34) l2	toxaphene-1	0.000	0.000	0	0	N.D. d	N.D. d
35) l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
36) l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
37) l2	toxaphene-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

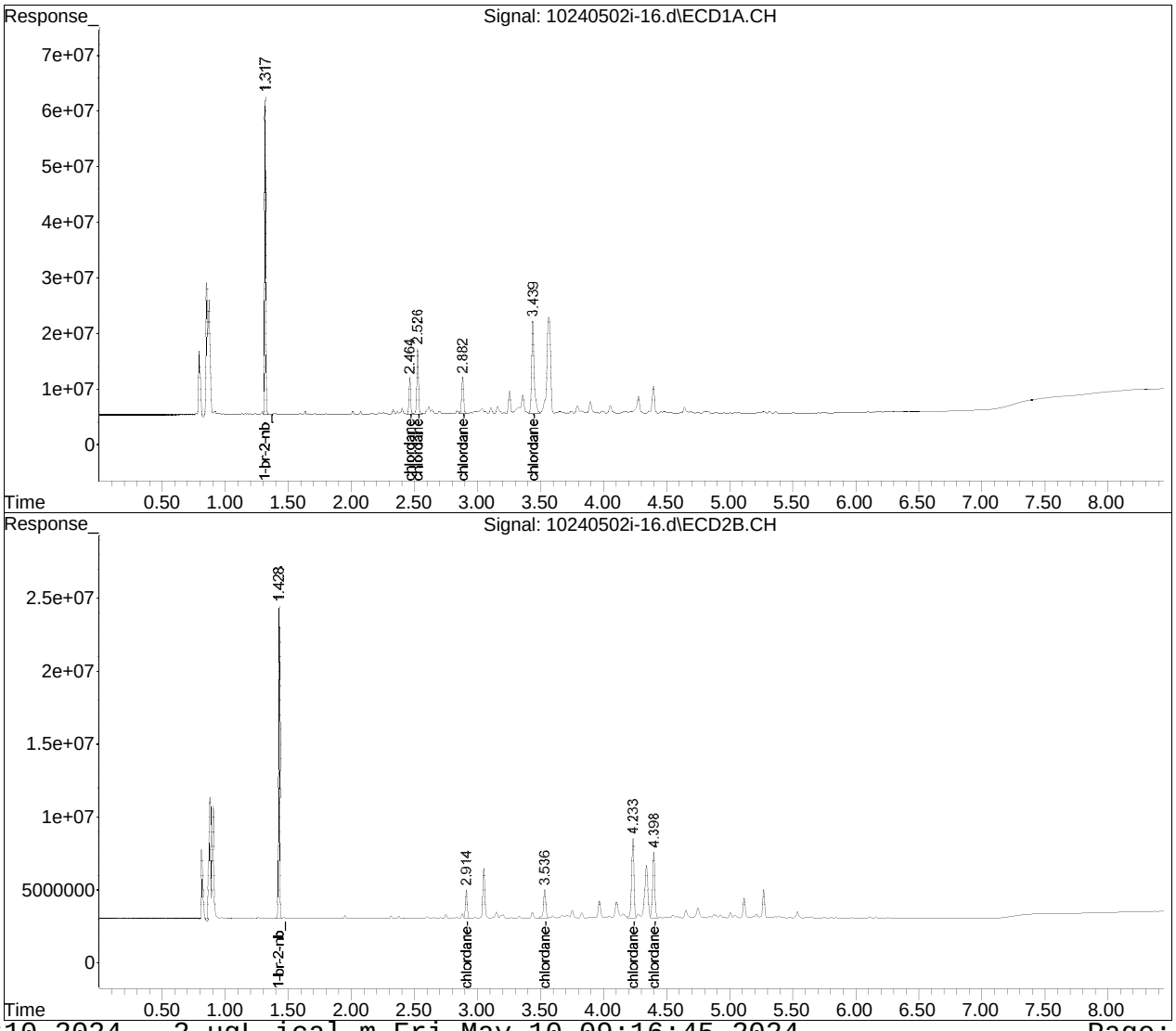
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest10\2024\240502ical\
Data File : 10240502i-16.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 May 2024 6:31 pm
Operator : PEST10:jag
Sample : il5chlor,42e,,pp 11507 L0.1
Misc : wg1919460, (Sig #1); ical (Sig #2)
ALS Vial : 16 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 07 17:56:22 2024
Quant Method : I:\PEST\Pest10\2024\240502ical\pest10_2024_05_02_ugL_ical.m
Quant Title : pest
QLast Update : Tue May 07 17:56:09 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

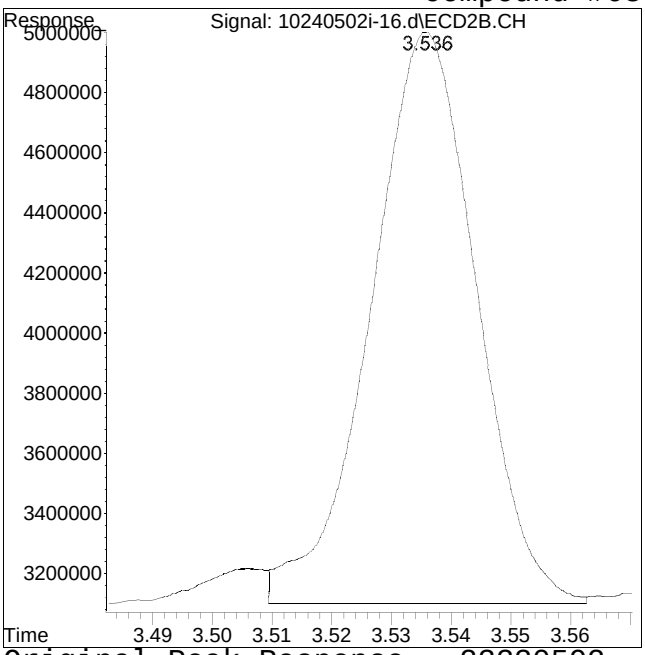
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



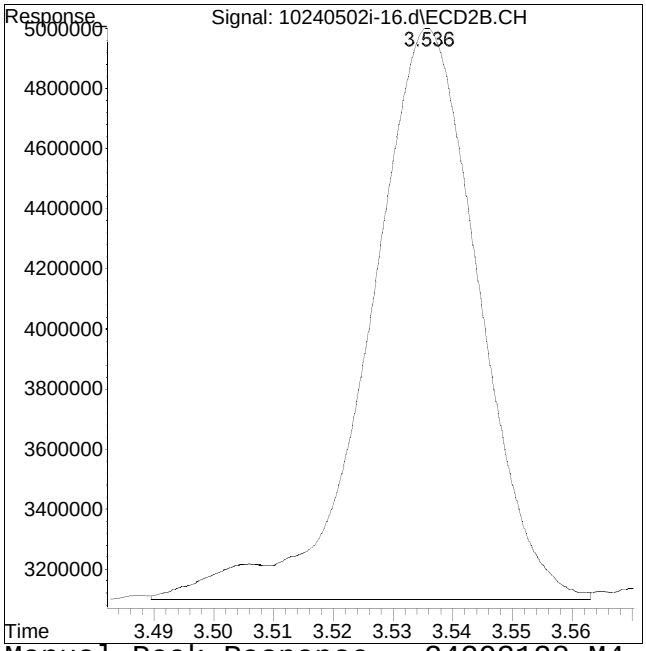
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-16.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 6:31 pm Instrument : Pest 10
Sample : il5chlor,42e,,pp 11507 L0.Quant Date : 5/7/2024 5:56 pm

Compound #68: chlordane-3 #2



Original Peak Response = 23330592



Manual Peak Response = 24293128 M4

M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest10\2024\240502ical\
Data File : 10240502i-17.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 May 2024 6:42 pm
Operator : PEST10:jag
Sample : il7chlor,42e,,pp 11506 L0.5
Misc : wg1919460, (Sig #1); ical (Sig #2)
ALS Vial : 17 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 07 17:55:25 2024
Quant Method : I:\PEST\Pest10\2024\240502ical\pest10_2024_05_02_ugL_ical.m
Quant Title : pest
QLast Update : Tue May 07 17:55:10 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	0.000	0.000	0	0	N.D. d	N.D. d
28) i	1-br-2-nb_Ch	1.318	1.428	372.1E6	137.0E6	25.000	25.000M4
33) i	1-br-2-nb_To	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150		Recovery =	0.00%#	0.00%#
27) s	Decachlorobi	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150		Recovery =	0.00%#	0.00%#
	Target Compounds						
3) t	Hexachlorobe	0.000	0.000	0	0	N.D. d	N.D. d
4) t	alpha-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5) t	gamma-BHC (l	0.000	0.000	0	0	N.D. d	N.D. d
6) t	beta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7) t	delta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
8) t	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
9) t	Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
10) t	Alachlor	0.000	0.000	0	0	N.D. d	N.D. d
11) t	Chlorpyrifos	0.000	0.000	0	0	N.D. d	N.D. d
12) t	Heptachlor E	0.000	0.000	0	0	N.D. d	N.D. d
13) t	gamma-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
14) t	alpha-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
15) t	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
16) t	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
17) t	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
18) t	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
19) t	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
20) t	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
21) t	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
22) t	Endrin Aldeh	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\PEST\Pest10\2024\240502ical\
Data File : 10240502i-17.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 May 2024 6:42 pm
Operator : PEST10:jag
Sample : il7chlor,42e,,pp 11506 L0.5
Misc : wg1919460, (Sig #1); ical (Sig #2)
ALS Vial : 17 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 07 17:55:25 2024
Quant Method : I:\PEST\Pest10\2024\240502ical\pest10_2024_05_02_ugL_ical.m
Quant Title : pest
QLast Update : Tue May 07 17:55:10 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
23) t	Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d
24) t	Mirex	0.000	0.000	0	0	N.D. d	N.D. d
25) t	Endosulfan S	0.000	0.000	0	0	N.D. d	N.D. d
26) t	Endrin Keton	0.000	0.000	0	0	N.D. d	N.D. d
29) l1	chlordane-1	2.464	2.914	273.9E6	90403123	525.252	548.056
30) l1	chlordane-3	2.527	3.536	548.3E6	112.0E6	526.719	599.942
31) l1	chlordane-4	2.883	4.232	334.8E6	371.7E6	565.083	552.909
32) l1	chlordane-5	3.440	4.398	1172.7E6	294.1E6	514.020	560.012
Sum	chlordane-1			2329.8E6	868.2E6	NoCal	NoCal D
Average	chlordane-1					532.768	565.230
34) l2	toxaphene-1	0.000	0.000	0	0	N.D. d	N.D. d
35) l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
36) l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
37) l2	toxaphene-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

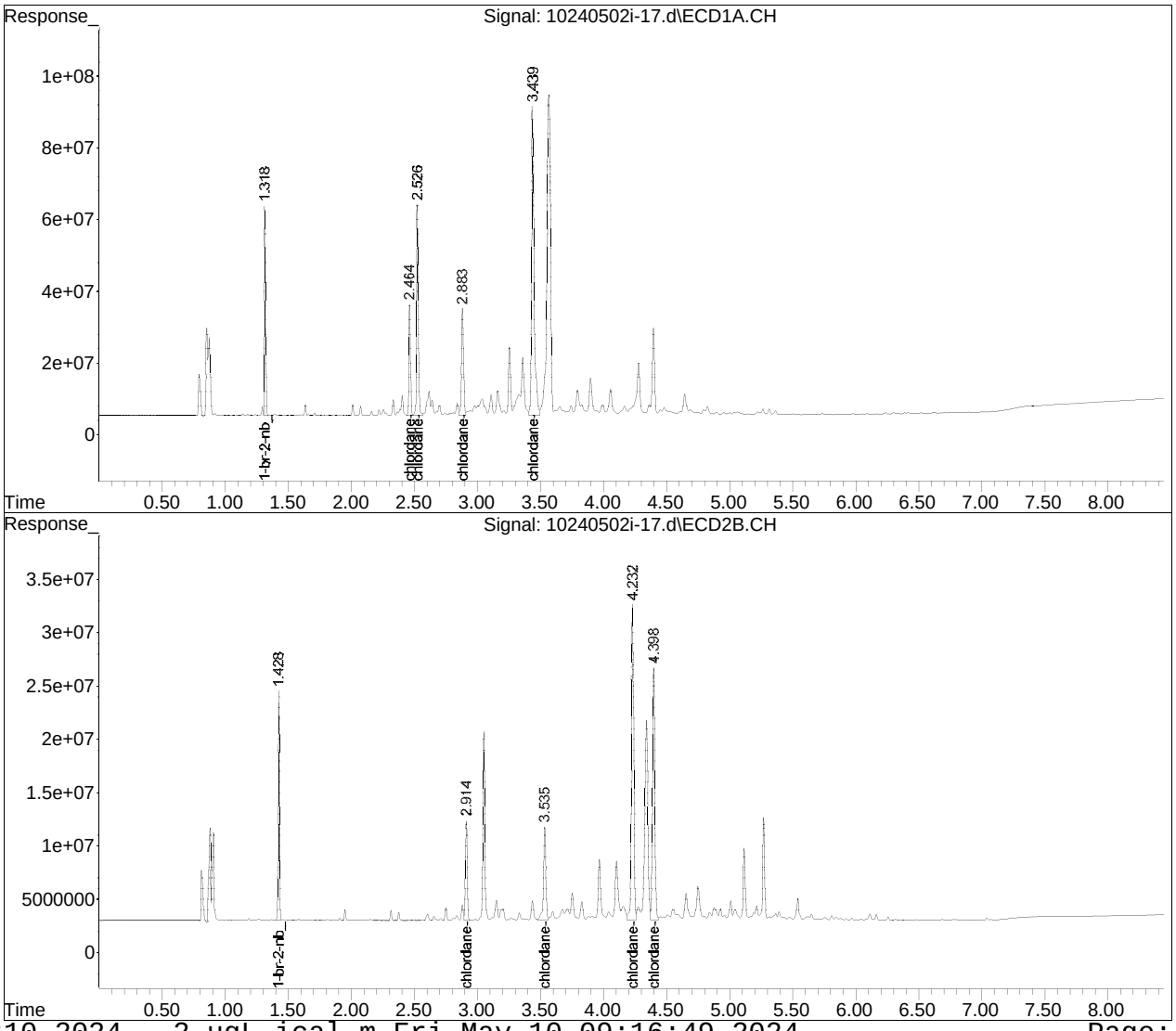
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest10\2024\240502ical\
Data File : 10240502i-17.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 May 2024 6:42 pm
Operator : PEST10:jag
Sample : il7chlor,42e,,pp 11506 L0.5
Misc : wg1919460, (Sig #1); ical (Sig #2)
ALS Vial : 17 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 07 17:55:25 2024
Quant Method : I:\PEST\Pest10\2024\240502ical\pest10_2024_05_02_ugL_ical.m
Quant Title : pest
QLast Update : Tue May 07 17:55:10 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

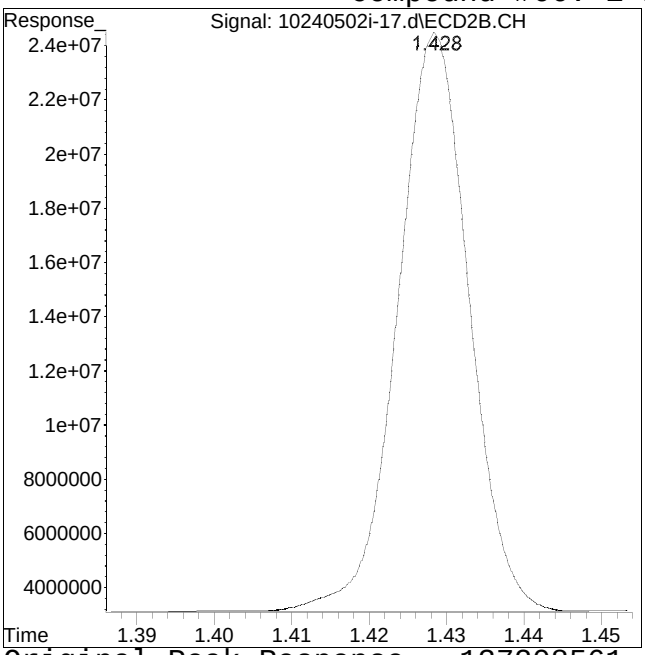
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

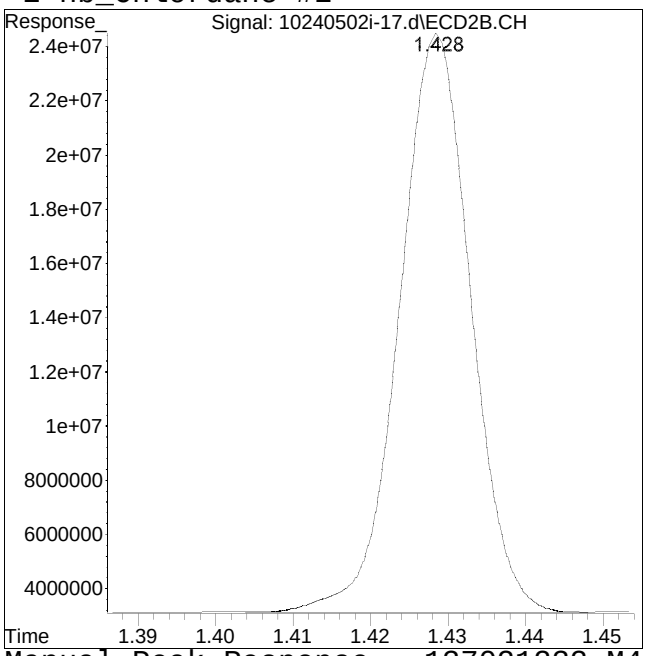


Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-17.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 6:42 pm Instrument : Pest 10
Sample : il7chlor,42e,,pp 11506 L0.Quant Date : 5/7/2024 5:55 pm

Compound #66: 1-br-2-nb_Chlordane #2





Original Peak Response = 137208561 Manual Peak Response = 137021232 M4
M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest10\2024\240502ical\
Data File : 10240502i-18.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 May 2024 6:53 pm
Operator : PEST10:jag
Sample : il8chlor,42e,,pp 11505 L1.0
Misc : wg1919460, (Sig #1); ical (Sig #2)
ALS Vial : 18 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 07 17:49:49 2024
Quant Method : I:\PEST\Pest10\2024\240502ical\pest10_2024_05_02_ugL_ical.m
Quant Title : pest
QLast Update : Tue May 07 17:43:27 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

		Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
		Internal Standards						
1)	i	1-br-2-nb_Pe	0.000	0.000	0	0	N.D. d	N.D. d
28)	i	1-br-2-nb_Ch	1.318	1.429	377.1E6	144.7E6	25.000M4	25.000M4
33)	i	1-br-2-nb_To	0.000	0.000	0	0	N.D. d	N.D. d
		System Monitoring Compounds						
2)	s	2,4,5,6-Tetr	0.000	0.000	0	0	N.D. d	N.D. d
		Spiked Amount	50.000	Range 30 - 150		Recovery =	0.00%#	0.00%#
27)	s	Decachlorobi	0.000	0.000	0	0	N.D. d	N.D. d
		Spiked Amount	50.000	Range 30 - 150		Recovery =	0.00%#	0.00%#
		Target Compounds						
3)	t	Hexachlorobe	0.000	0.000	0	0	N.D. d	N.D. d
4)	t	alpha-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5)	t	gamma-BHC (l	0.000	0.000	0	0	N.D. d	N.D. d
6)	t	beta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7)	t	delta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
8)	t	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
9)	t	Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
10)	t	Alachlor	0.000	0.000	0	0	N.D. d	N.D. d
11)	t	Chlorpyrifos	0.000	0.000	0	0	N.D. d	N.D. d
12)	t	Heptachlor E	0.000	0.000	0	0	N.D. d	N.D. d
13)	t	gamma-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
14)	t	alpha-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
15)	t	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
16)	t	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
17)	t	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
18)	t	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
19)	t	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
20)	t	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
21)	t	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
22)	t	Endrin Aldeh	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest10\2024\240502ical\
Data File : 10240502i-18.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 May 2024 6:53 pm
Operator : PEST10:jag
Sample : il8chlor,42e,,pp 11505 L1.0
Misc : wg1919460, (Sig #1); ical (Sig #2)
ALS Vial : 18 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 07 17:49:49 2024
Quant Method : I:\PEST\Pest10\2024\240502ical\pest10_2024_05_02_ugL_ical.m
Quant Title : pest
QLast Update : Tue May 07 17:43:27 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
23) t	Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d
24) t	Mirex	0.000	0.000	0	0	N.D. d	N.D. d
25) t	Endosulfan S	0.000	0.000	0	0	N.D. d	N.D. d
26) t	Endrin Keton	0.000	0.000	0	0	N.D. d	N.D. d
29) l1	chlordane-1	2.464	2.915	552.5E6	192.1E6	NoCal	NoCal
30) l1	chlordane-3	2.527	3.535	1116.4E6	223.2E6	NoCal	NoCal M3
31) l1	chlordane-4	2.883	4.233	657.9E6	778.8E6	NoCal	NoCal
32) l1	chlordane-5	3.439	4.399	2418.1E6	609.6E6	NoCal	NoCal
Sum	chlordane-1			0	0	N.D.	N.D.
Average	chlordane-1					0.000	0.000
34) l2	toxaphene-1	0.000	0.000	0	0	N.D. d	N.D. d
35) l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
36) l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
37) l2	toxaphene-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

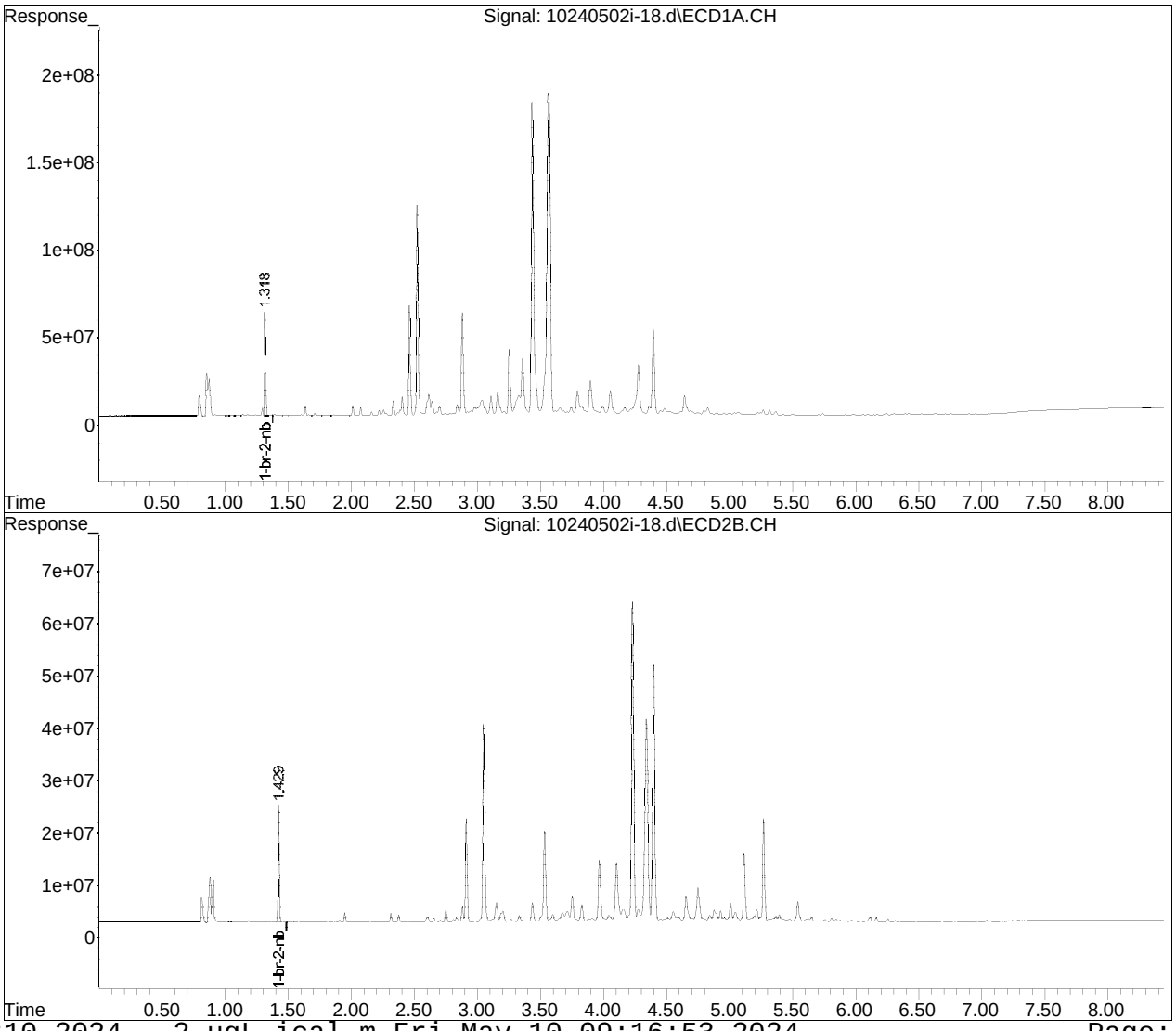
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest10\2024\240502ical\
Data File : 10240502i-18.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 May 2024 6:53 pm
Operator : PEST10:jag
Sample : il8chlor,42e,,pp 11505 L1.0
Misc : wg1919460, (Sig #1); ical (Sig #2)
ALS Vial : 18 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 07 17:49:49 2024
Quant Method : I:\PEST\Pest10\2024\240502ical\pest10_2024_05_02_ugL_ical.m
Quant Title : pest
QLast Update : Tue May 07 17:43:27 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

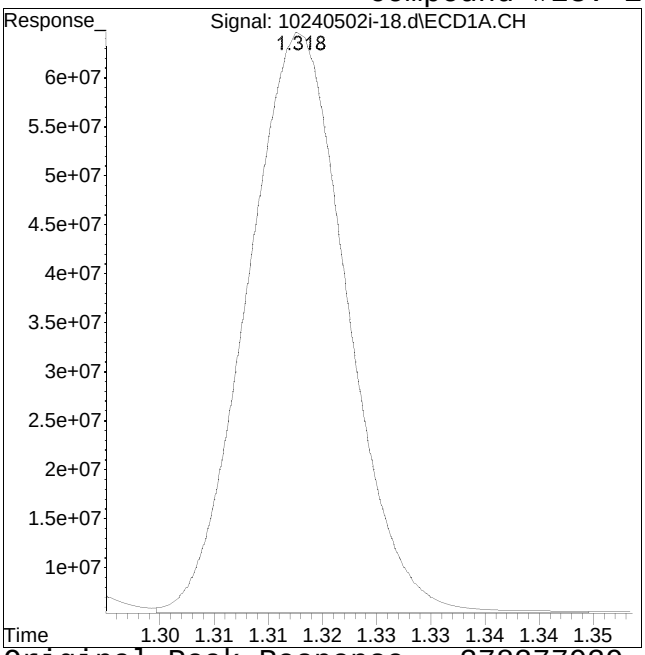
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



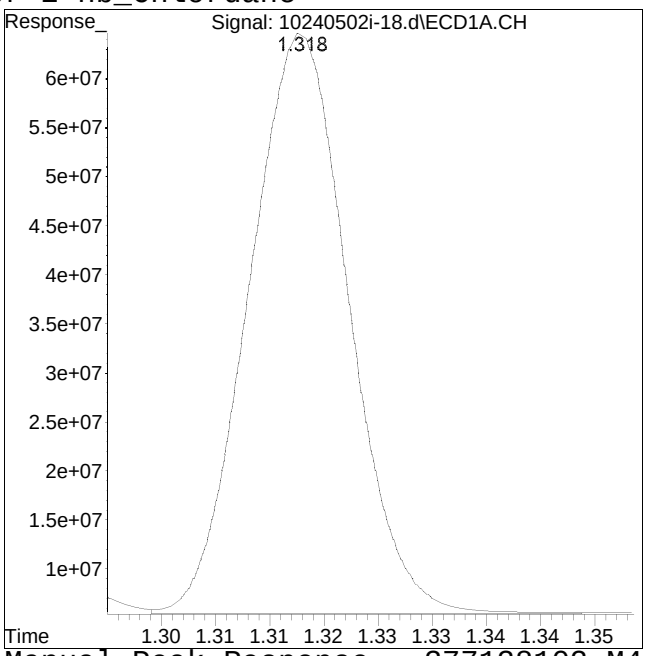
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-18.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 6:53 pm Instrument : Pest 10
Sample : il8chlor,42e,,pp 11505 L1.Quant Date : 5/7/2024 5:49 pm

Compound #28: 1-br-2-nb_Chlordane



Original Peak Response = 378377939



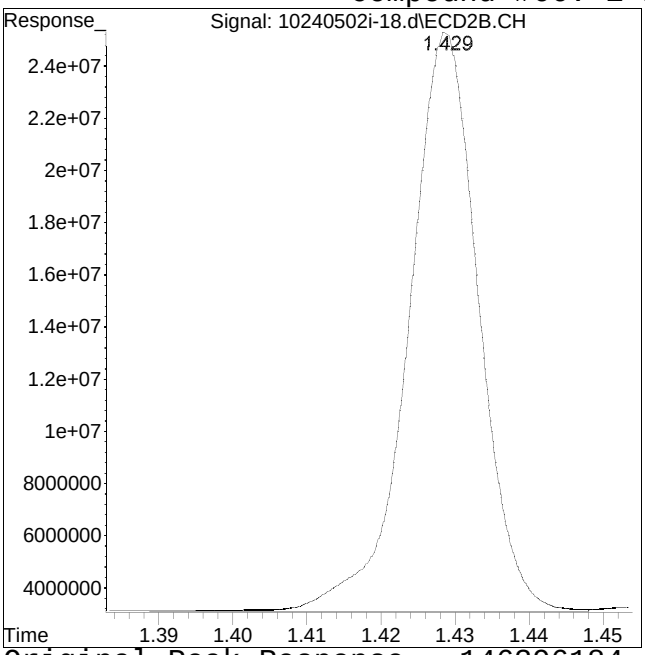
Manual Peak Response = 377138102 M4

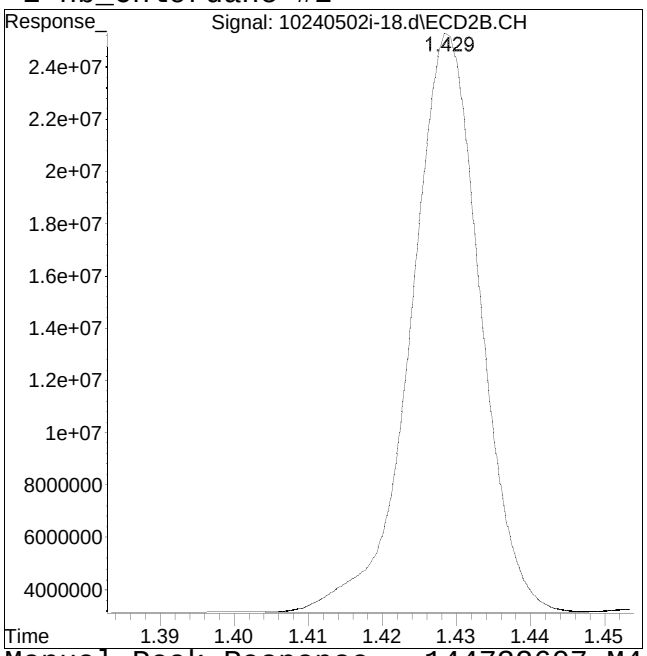
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-18.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 6:53 pm Instrument : Pest 10
Sample : il8chlor,42e,,pp 11505 L1.Quant Date : 5/7/2024 5:49 pm

Compound #66: 1-br-2-nb_Chlordane #2



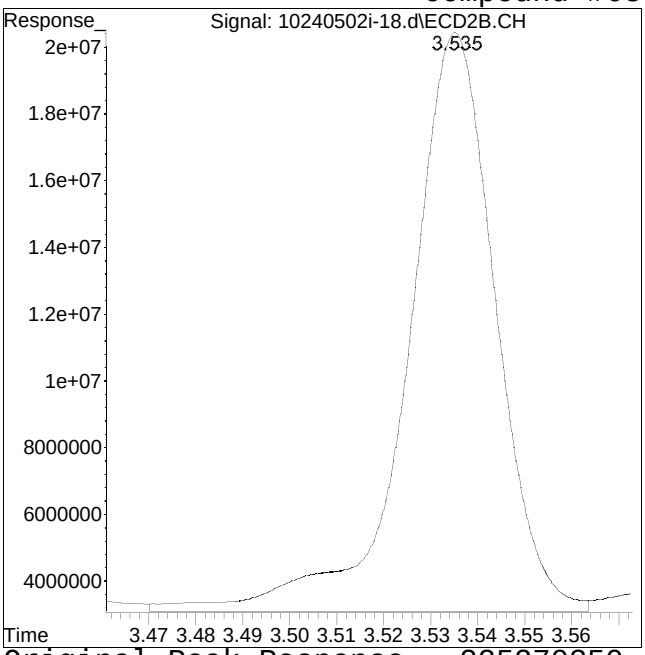


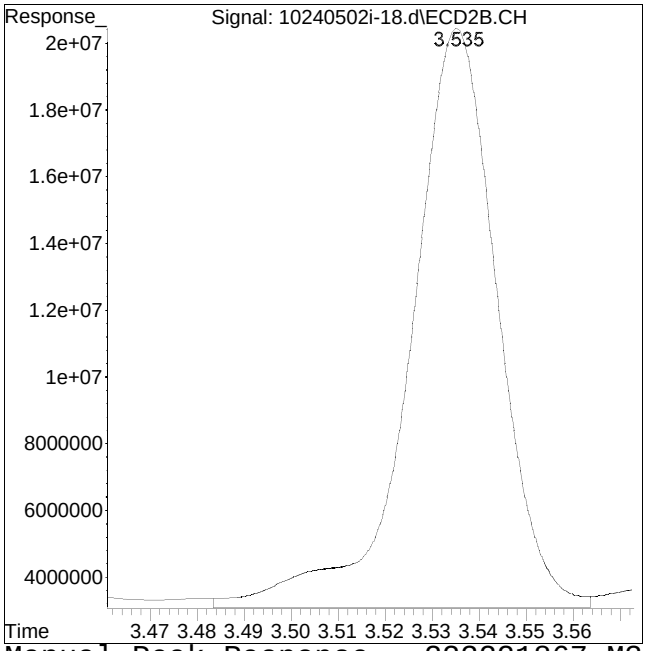
Original Peak Response = 146396184 Manual Peak Response = 144732607 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-18.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 6:53 pm Instrument : Pest 10
Sample : il8chlor,42e,,pp 11505 L1.Quant Date : 5/7/2024 5:49 pm

Compound #68: chlordane-3 #2





Original Peak Response = 225270350 Manual Peak Response = 223221867 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest10\2024\240502ical\
Data File : 10240502i-19.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 May 2024 7:04 pm
Operator : PEST10:jag
Sample : il9chlor,42e,,pp 11504 L2.0
Misc : wg1919460, (Sig #1); ical (Sig #2)
ALS Vial : 19 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 07 17:51:40 2024
Quant Method : I:\PEST\Pest10\2024\240502ical\pest10_2024_05_02_ugL_ical.m
Quant Title : pest
QLast Update : Tue May 07 17:51:11 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	0.000	0.000	0	0	N.D. d	N.D. d
28) i	1-br-2-nb_Ch	1.317	1.428	383.4E6	148.0E6	25.000M4	25.000M4
33) i	1-br-2-nb_To	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150		Recovery =	0.00%#	0.00%#
27) s	Decachlorobi	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150		Recovery =	0.00%#	0.00%#
	Target Compounds						
3) t	Hexachlorobe	0.000	0.000	0	0	N.D. d	N.D. d
4) t	alpha-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5) t	gamma-BHC (l	0.000	0.000	0	0	N.D. d	N.D. d
6) t	beta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7) t	delta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
8) t	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
9) t	Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
10) t	Alachlor	0.000	0.000	0	0	N.D. d	N.D. d
11) t	Chlorpyrifos	0.000	0.000	0	0	N.D. d	N.D. d
12) t	Heptachlor E	0.000	0.000	0	0	N.D. d	N.D. d
13) t	gamma-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
14) t	alpha-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
15) t	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
16) t	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
17) t	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
18) t	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
19) t	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
20) t	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
21) t	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
22) t	Endrin Aldeh	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\PEST\Pest10\2024\240502ical\
Data File : 10240502i-19.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 May 2024 7:04 pm
Operator : PEST10:jag
Sample : il9chlor,42e,,pp 11504 L2.0
Misc : wg1919460, (Sig #1); ical (Sig #2)
ALS Vial : 19 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 07 17:51:40 2024
Quant Method : I:\PEST\Pest10\2024\240502ical\pest10_2024_05_02_ugL_ical.m
Quant Title : pest
QLast Update : Tue May 07 17:51:11 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
23) t	Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d
24) t	Mirex	0.000	0.000	0	0	N.D. d	N.D. d
25) t	Endosulfan S	0.000	0.000	0	0	N.D. d	N.D. d
26) t	Endrin Keton	0.000	0.000	0	0	N.D. d	N.D. d
29) l1	chlordane-1	2.464	2.915	1081.2E6	370.5E6	1924.941	1885.865
30) l1	chlordane-3	2.527	3.536	2181.4E6	422.1E6	1922.046	1849.424
31) l1	chlordane-4	2.883	4.233	1183.1E6	1526.8E6	1768.932	1917.240
32) l1	chlordane-5	3.439	4.399	4756.3E6	1193.7E6	1934.796	1915.278
Sum	chlordane-1			9202.0E6	3513.1E6	NoCal	NoCal D
Average	chlordane-1					1887.679	1891.952
34) l2	toxaphene-1	0.000	0.000	0	0	N.D. d	N.D. d
35) l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
36) l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
37) l2	toxaphene-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

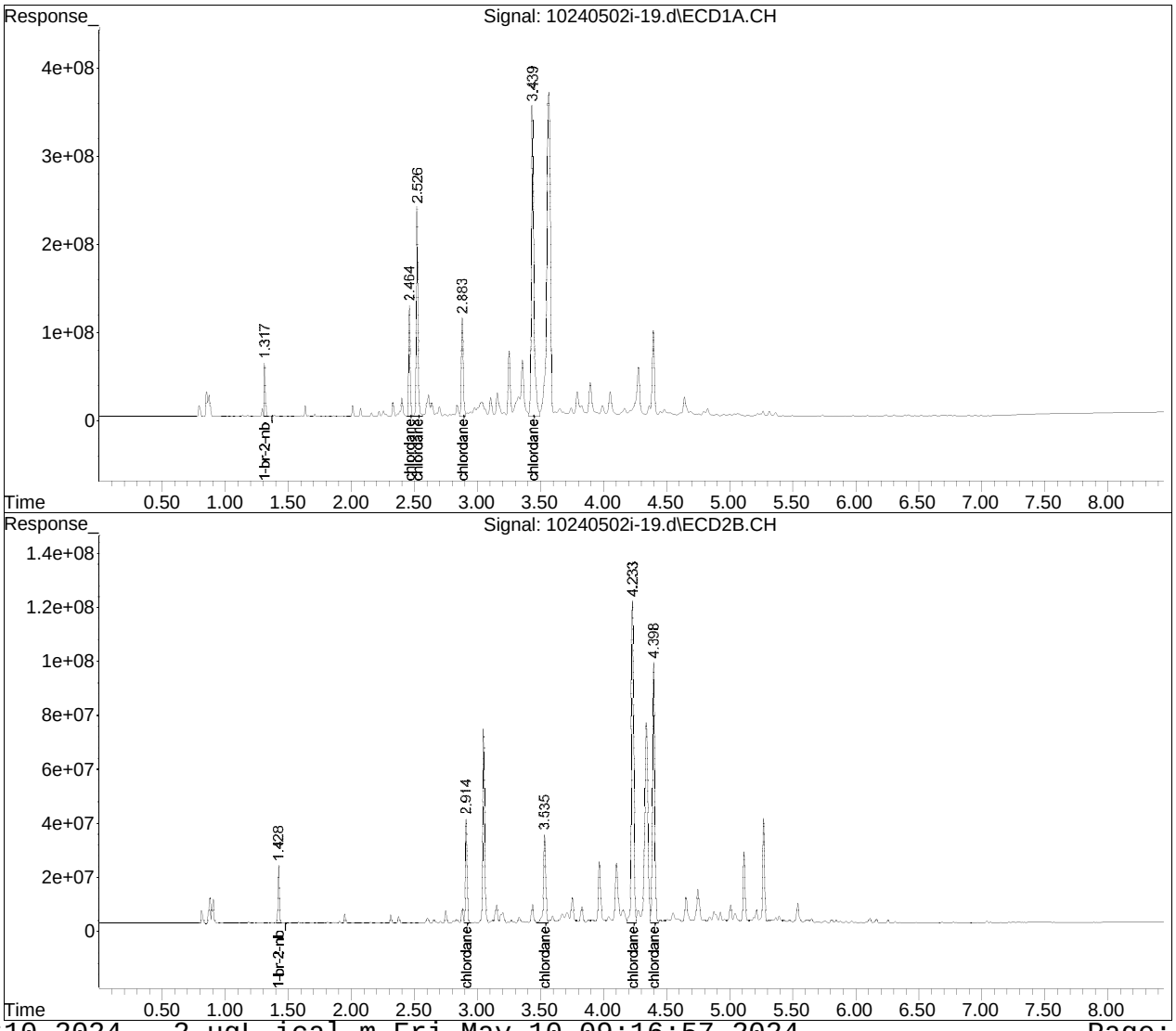
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest10\2024\240502ical\
Data File : 10240502i-19.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 May 2024 7:04 pm
Operator : PEST10:jag
Sample : il9chlor,42e,,pp 11504 L2.0
Misc : wg1919460, (Sig #1); ical (Sig #2)
ALS Vial : 19 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 07 17:51:40 2024
Quant Method : I:\PEST\Pest10\2024\240502ical\pest10_2024_05_02_ugL_ical.m
Quant Title : pest
QLast Update : Tue May 07 17:51:11 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

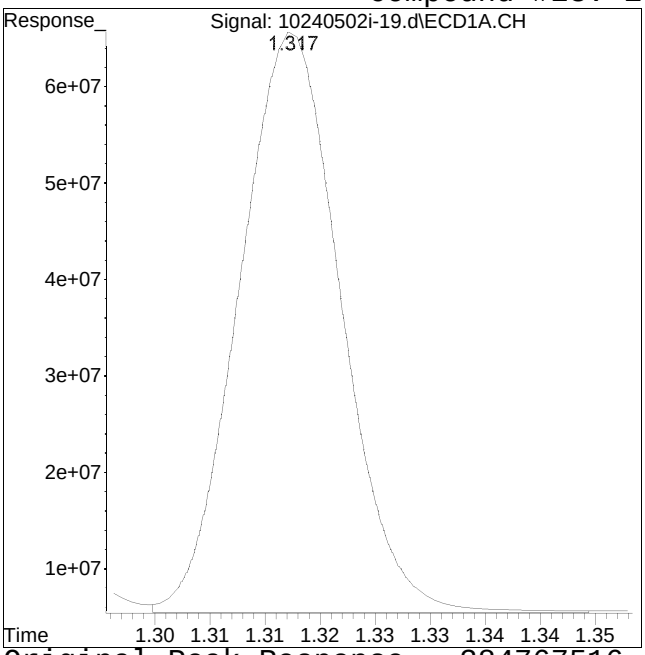


Manual Integration Report

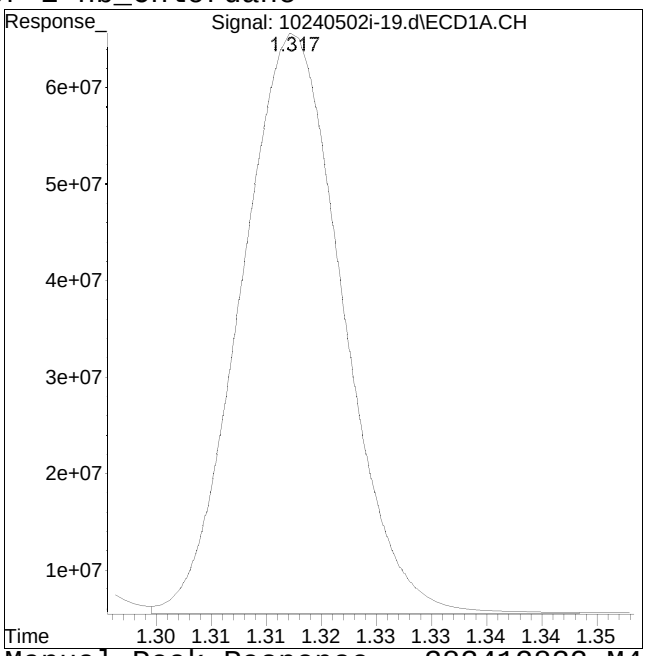
Data Path : I:\PEST\Pest10\2024\240502Q
Data File : 10240502i-19.d
Date Inj'd : 5/2/2024 7:04 pm
Sample : il9chlor,42e,,pp 11504 L2.

Method : pest10_2024_05_02_ugL_ic
Operator : PEST10:jag
Instrument : Pest 10
Quant Date : 5/7/2024 5:51 pm

Compound #28: 1-br-2-nb_Chlordane



Original Peak Response = 384767516



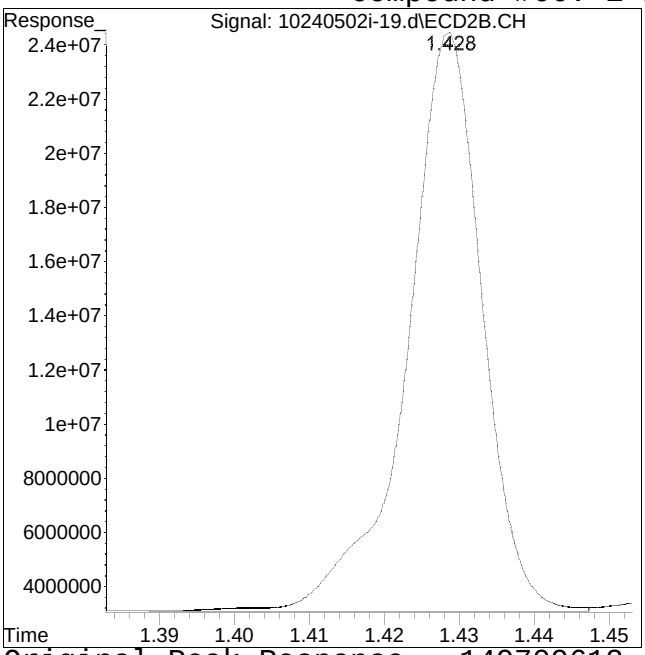
Manual Peak Response = 383412832 M4

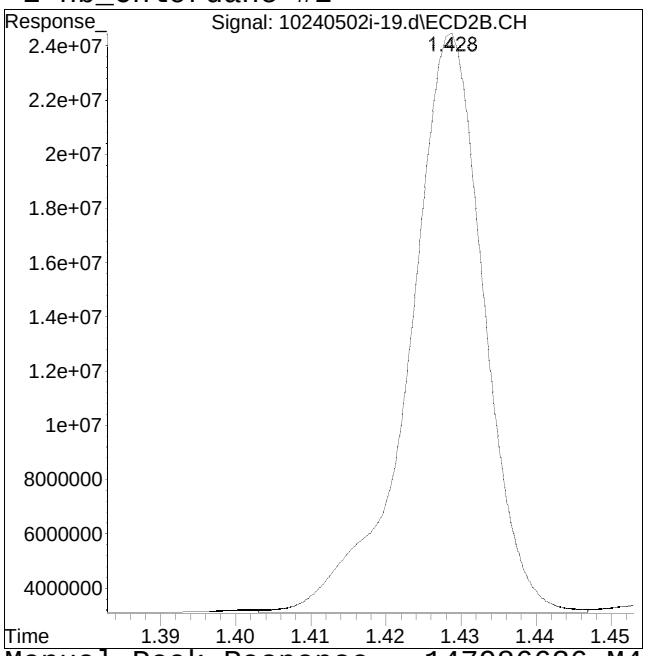
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-19.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 7:04 pm Instrument : Pest 10
Sample : il9chlor,42e,,pp 11504 L2.Quant Date : 5/7/2024 5:51 pm

Compound #66: 1-br-2-nb_Chlordane #2





Original Peak Response = 149709612 Manual Peak Response = 147986636 M4
M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest10\2024\240502ical\
Data File : 10240502i-20.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 May 2024 7:15 pm
Operator : PEST10:jag
Sample : il10chlor,42e,,pp 11549 L5.0
Misc : wg1919460, (Sig #1); ical (Sig #2)
ALS Vial : 20 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 07 17:54:18 2024
Quant Method : I:\PEST\Pest10\2024\240502ical\pest10_2024_05_02_ugL_ical.m
Quant Title : pest
QLast Update : Tue May 07 17:54:00 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

		Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
		Internal Standards						
1)	i	1-br-2-nb_Pe	0.000	0.000	0	0	N.D. d	N.D. d
28)	i	1-br-2-nb_Ch	1.318	1.429	414.4E6	183.1E6	25.000M4	25.000M4
33)	i	1-br-2-nb_To	0.000	0.000	0	0	N.D. d	N.D. d
		System Monitoring Compounds						
2)	s	2,4,5,6-Tetr	0.000	0.000	0	0	N.D. d	N.D. d
		Spiked Amount	50.000	Range 30 - 150		Recovery =	0.00%#	0.00%#
27)	s	Decachlorobi	0.000	0.000	0	0	N.D. d	N.D. d
		Spiked Amount	50.000	Range 30 - 150		Recovery =	0.00%#	0.00%#
		Target Compounds						
3)	t	Hexachlorobe	0.000	0.000	0	0	N.D. d	N.D. d
4)	t	alpha-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5)	t	gamma-BHC (l	0.000	0.000	0	0	N.D. d	N.D. d
6)	t	beta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7)	t	delta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
8)	t	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
9)	t	Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
10)	t	Alachlor	0.000	0.000	0	0	N.D. d	N.D. d
11)	t	Chlorpyrifos	0.000	0.000	0	0	N.D. d	N.D. d
12)	t	Heptachlor E	0.000	0.000	0	0	N.D. d	N.D. d
13)	t	gamma-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
14)	t	alpha-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
15)	t	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
16)	t	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
17)	t	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
18)	t	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
19)	t	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
20)	t	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
21)	t	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
22)	t	Endrin Aldeh	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\PEST\Pest10\2024\240502ical\
Data File : 10240502i-20.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 May 2024 7:15 pm
Operator : PEST10:jag
Sample : il10chlor,42e,,pp 11549 L5.0
Misc : wg1919460, (Sig #1); ical (Sig #2)
ALS Vial : 20 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 07 17:54:18 2024
Quant Method : I:\PEST\Pest10\2024\240502ical\pest10_2024_05_02_ugL_ical.m
Quant Title : pest
QLast Update : Tue May 07 17:54:00 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
23) t	Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d
24) t	Mirex	0.000	0.000	0	0	N.D. d	N.D. d
25) t	Endosulfan S	0.000	0.000	0	0	N.D. d	N.D. d
26) t	Endrin Keton	0.000	0.000	0	0	N.D. d	N.D. d
29) l1	chlordane-1	2.465	2.916	2754.7E6	945.2E6	4623.853	4002.745
30) l1	chlordane-3	2.528	3.537	5361.4E6	1024.0E6	4457.140	3767.688
31) l1	chlordane-4	2.884	4.235	3087.1E6	3826.1E6	4532.064	3964.710
32) l1	chlordane-5	3.441	4.400	11973.5E6	2979.6E6	4580.586	3947.097
Sum	chlordane-1			23176.7E6	8775.1E6	NoCal	NoCal D
Average	chlordane-1					4548.411	3920.560
34) l2	toxaphene-1	0.000	0.000	0	0	N.D. d	N.D. d
35) l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
36) l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
37) l2	toxaphene-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

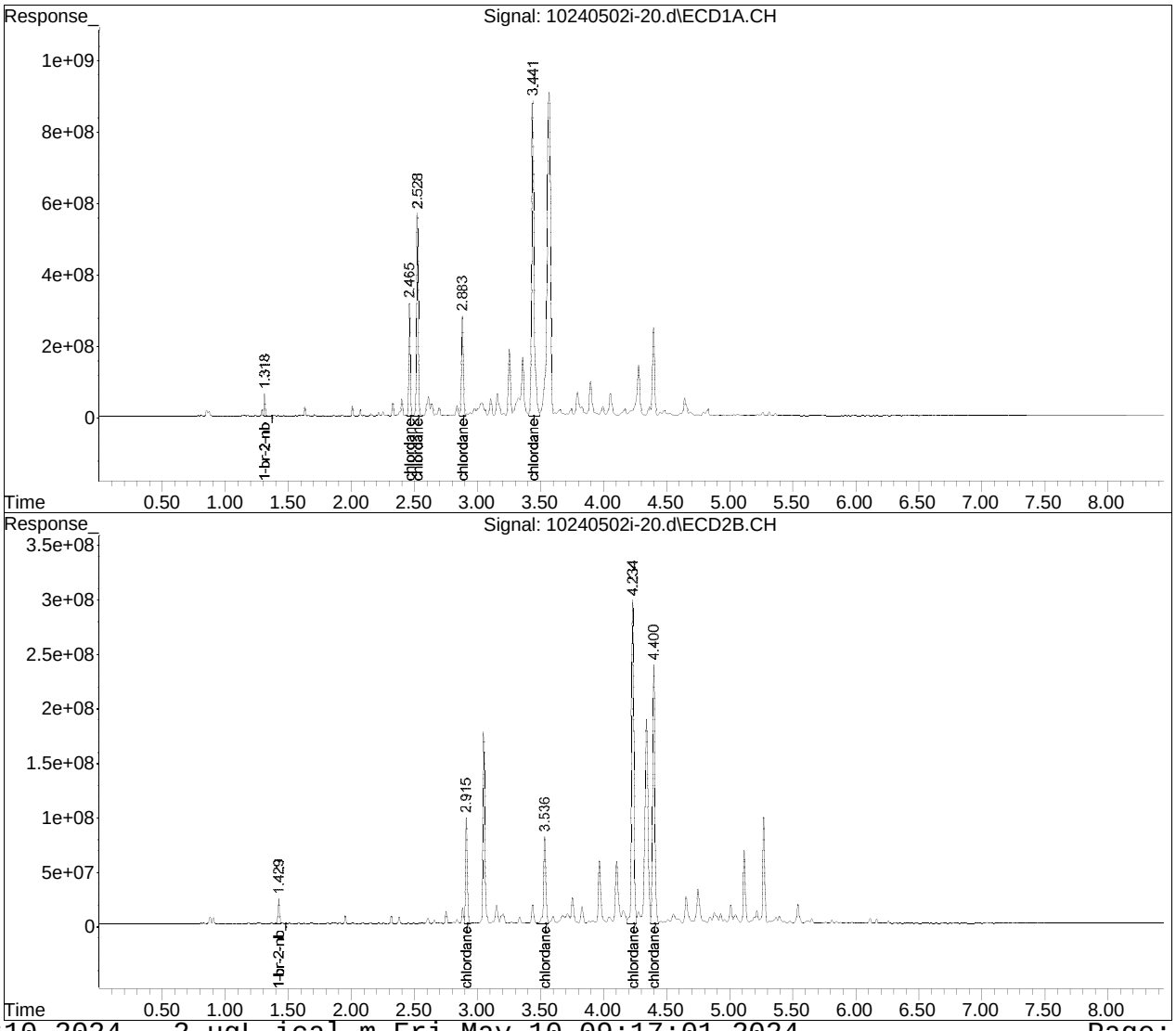
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest10\2024\240502ical\
Data File : 10240502i-20.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 May 2024 7:15 pm
Operator : PEST10:jag
Sample : il10chlor,42e,,pp 11549 L5.0
Misc : wg1919460, (Sig #1); ical (Sig #2)
ALS Vial : 20 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 07 17:54:18 2024
Quant Method : I:\PEST\Pest10\2024\240502ical\pest10_2024_05_02_ugL_ical.m
Quant Title : pest
QLast Update : Tue May 07 17:54:00 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

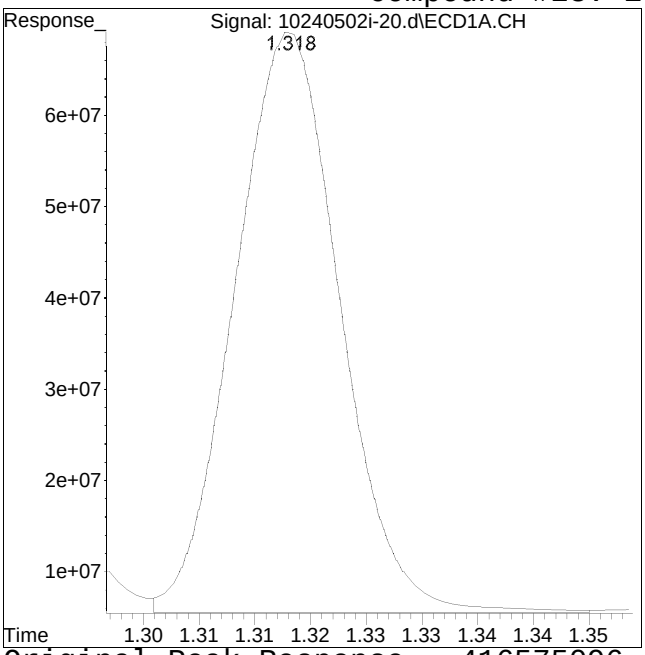
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

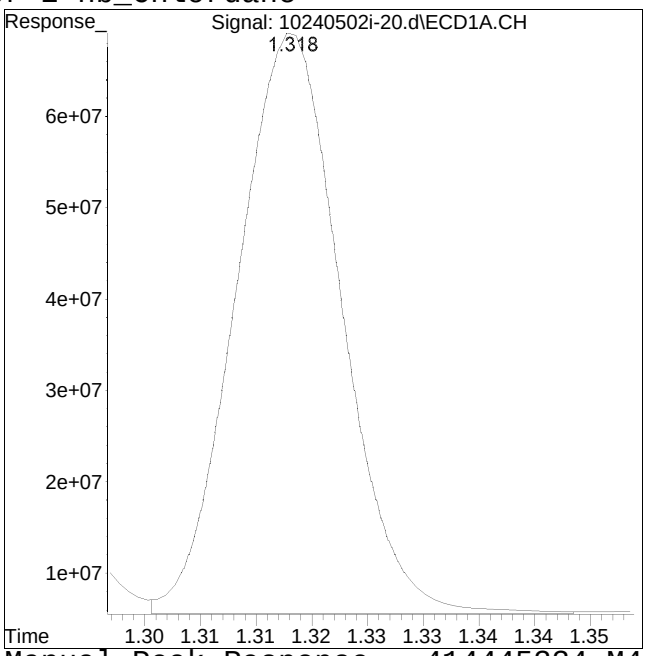


Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-20.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 7:15 pm Instrument : Pest 10
Sample : il10chlor,42e,,pp 11549 L5Quant Date : 5/7/2024 5:54 pm

Compound #28: 1-br-2-nb_Chlordane



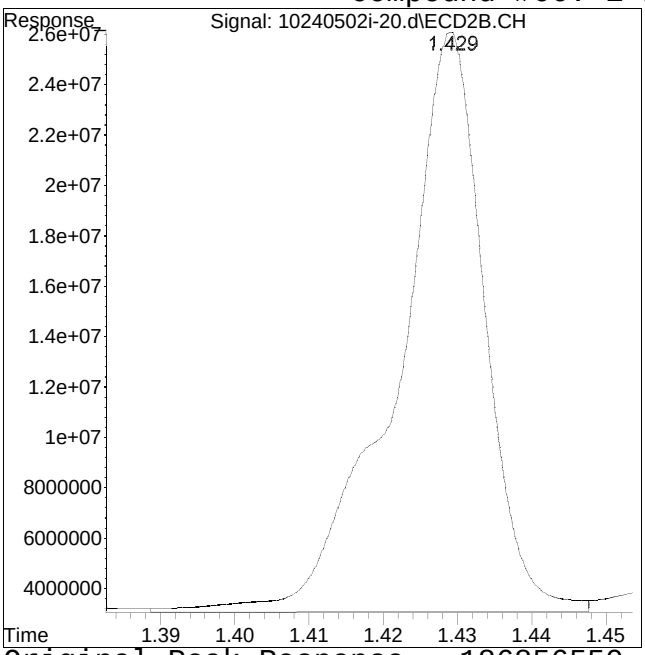


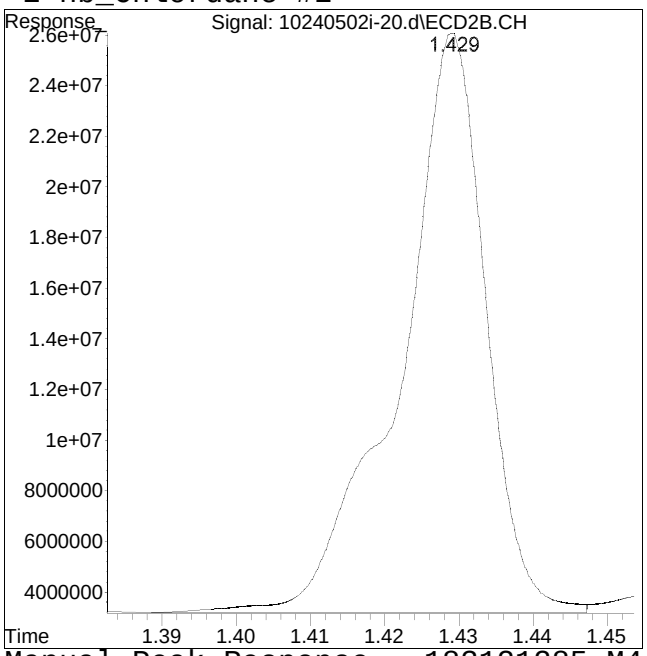
Original Peak Response = 416575096 Manual Peak Response = 414445334 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-20.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 7:15 pm Instrument : Pest 10
Sample : il10chlor,42e,,pp 11549 L5Quant Date : 5/7/2024 5:54 pm

Compound #66: 1-br-2-nb_Chlordane #2





Original Peak Response = 186856550 Manual Peak Response = 183121285 M4
M4 = Poor automated baseline construction.

Initial Calibration Verification

Evaluate Continuing Calibration Report

Data Path : I:\PEST\Pest10\2024\240502ical\
Data File : 10240502i-21.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 02 May 2024   7:26 pm
Operator : PEST10:jag
Sample   : cicvchlor,42e,,pp 11540 L1.0ICV
Misc   : wg1919460, (Sig #1); ical (Sig #2)
ALS Vial : 21 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 07 18:08:37 2024
Quant Method : I:\PEST\Pest10\2024\240502ical\pest10_2024_05_02_ugL_ical.m
Quant Title : pest
QLast Update : Tue May 07 18:07:37 2024
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
28	i	1-br-2-nb_Chlordane	^	1.000	1.000	0.0	105	0.00
29	l1	chlordane-1		*1000.000	918.124	8.2	94	0.00
30	l1	chlordane-3		*1000.000	697.488	30.3#	71	0.00
31	l1	chlordane-4		*1000.000	945.251	5.5	93	0.00
32	l1	chlordane-5		*1000.000	892.521	10.7	91	0.00

Signal #2

28	i	1-br-2-nb_Chlordane	^	1.000	1.000	0.0	98	0.00
29	l1	chlordane-1		*1000.000	972.342	2.8	91	0.00
30	l1	chlordane-3		*1000.000	975.775	2.4	92	0.00
31	l1	chlordane-4		*1000.000	926.696	7.3	88	0.00
32	l1	chlordane-5		*1000.000	924.346	7.6	88	0.00

Evaluate Continuing Calibration Report - Not Founds

1	i	1-br-2-nb_Pesticides	^	1.000	1.000	0.0	0	-1.32#
2	s	2,4,5,6-Tetrachloro-m-xylen		1.085	0.000	100.0#	0#	-1.66#
3	t	Hexachlorobenzene		1.160	0.000	100.0#	0#	-1.88#
4	t	alpha-BHC		1.510	0.000	100.0#	0#	-1.98#
5	t	gamma-BHC (lindane)		1.431	0.000	100.0#	0#	-2.18#
6	t	beta-BHC	*	0.635	0.000	100.0#	0#	-2.23#
7	t	delta-BHC		1.412	0.000	100.0#	0#	-2.36#
8	t	Heptachlor		1.359	0.000	100.0#	0#	-2.53#
9	t	Aldrin		1.282	0.000	100.0#	0#	-2.77#
10	t	Alachlor	*	50.000	0.000	100.0#	0	-2.89#
11	t	Chlorpyrifos	*	50.000	0.000	100.0#	0	-2.98#
12	t	Heptachlor Epoxide		1.221	0.000	100.0#	0#	-3.32#
13	t	gamma-Chlordane (trans)		1.117	0.000	100.0#	0#	-3.44#

Evaluate Continuing Calibration Report

Data Path : I:\PEST\Pest10\2024\240502ical\
Data File : 10240502i-21.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 02 May 2024   7:26 pm
Operator : PEST10:jag
Sample   : cicvchlor,42e,,pp 11540 L1.0ICV
Misc   : wg1919460, (Sig #1); ical (Sig #2)
ALS Vial : 21 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 07 18:08:37 2024
Quant Method : I:\PEST\Pest10\2024\240502ical\pest10_2024_05_02_ugL_ical.m
Quant Title : pest
QLast Update : Tue May 07 18:07:37 2024
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
14	t	alpha-Chlordane (cis)		1.269	0.000	100.0#	0#	-3.57#
15	t	4,4'-DDE		1.202	0.000	100.0#	0#	-3.67#
16	t	Endosulfan I		1.163	0.000	100.0#	0#	-3.71#
17	t	Dieldrin		1.200	0.000	100.0#	0#	-3.97#
18	t	Endrin		1.233	0.000	100.0#	0#	-4.23#
19	t	4,4'-DDD		0.977	0.000	100.0#	0#	-4.34#
20	t	Endosulfan II		1.064	0.000	100.0#	0#	-4.47#
21	t	4,4'-DDT		1.081	0.000	100.0#	0#	-4.63#
22	t	Endrin Aldehyde	*	0.852	0.000	100.0#	0#	-4.89#
23	t	Methoxychlor	*	50.000	0.000	100.0#	0	-5.12#
24	t	Mirex	*	50.000	0.000	100.0#	0	-5.17#
25	t	Endosulfan Sulfate		1.055	0.000	100.0#	0#	-5.28#
26	t	Endrin Ketone		1.157	0.000	100.0#	0#	-5.50#
27	s	Decachlorobiphenyl	*	0.926	0.000	100.0#	0#	-6.31#
33	i	1-br-2-nb_Toxaphene	^	1.000	1.000	0.0	0	-1.32#
34	l2	toxaphene-1	*	0.048	0.000	100.0#	0#	-4.46#
35	l2	toxaphene-2	*	0.038	0.000	100.0#	0#	-4.58#
36	l2	toxaphene-4	*	0.038	0.000	100.0#	0#	-5.00#
37	l2	toxaphene-5	*	0.043	0.000	100.0#	0#	-5.18#

Signal #2

1	i	1-br-2-nb_Pesticides	^	1.000	1.000	0.0	0	-1.43#
2	s	2,4,5,6-Tetrachloro-m-xyl		0.940	0.000	100.0#	0#	-1.92#
3	t	Hexachlorobenzene		1.080	0.000	100.0#	0#	-2.25#
4	t	alpha-BHC		1.339	0.000	100.0#	0#	-2.35#
5	t	gamma-BHC (lindane)		1.257	0.000	100.0#	0#	-2.64#
6	t	beta-BHC	*	0.595	0.000	100.0#	0#	-2.71#
7	t	delta-BHC		1.262	0.000	100.0#	0#	-2.98#

Evaluate Continuing Calibration Report

Data Path : I:\PEST\Pest10\2024\240502ical\
Data File : 10240502i-21.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 02 May 2024   7:26 pm
Operator : PEST10:jag
Sample   : cicvchlor,42e,,pp 11540 L1.0ICV
Misc   : wg1919460, (Sig #1); ical (Sig #2)
ALS Vial : 21 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 07 18:08:37 2024
Quant Method : I:\PEST\Pest10\2024\240502ical\pest10_2024_05_02_ugL_ical.m
Quant Title : pest
QLast Update : Tue May 07 18:07:37 2024
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
8	t	Heptachlor		1.248	0.000	100.0#	0#	-3.05#
9	t	Aldrin		1.137	0.000	100.0#	0#	-3.38#
10	t	Alachlor	*	50.000	0.000	100.0#	0	-3.26#
11	t	Chlorpyrifos	*	50.000	0.000	100.0#	0	-3.62#
12	t	Heptachlor Epoxide		1.137	0.000	100.0#	0#	-4.01#
13	t	gamma-Chlordane (trans)		1.011	0.000	100.0#	0#	-4.23#
14	t	alpha-Chlordane (cis)		1.137	0.000	100.0#	0#	-4.40#
15	t	4,4'-DDE		1.052	0.000	100.0#	0#	-4.59#
16	t	Endosulfan I		1.058	0.000	100.0#	0#	-4.46#
17	t	Dieldrin		1.059	0.000	100.0#	0#	-4.74#
18	t	Endrin		1.086	0.000	100.0#	0#	-5.04#
19	t	4,4'-DDD		0.846	0.000	100.0#	0#	-5.15#
20	t	Endosulfan II		0.951	0.000	100.0#	0#	-5.23#
21	t	4,4'-DDT		0.960	0.000	100.0#	0#	-5.43#
22	t	Endrin Aldehyde	*	0.746	0.000	100.0#	0#	-5.52#
23	t	Methoxychlor	*	50.000	0.000	100.0#	0	-5.98#
24	t	Mirex	*	50.000	0.000	100.0#	0	-6.13#
25	t	Endosulfan Sulfate		0.948	0.000	100.0#	0#	-5.75#
26	t	Endrin Ketone		1.033	0.000	100.0#	0#	-6.16#
27	s	Decachlorobiphenyl	*	0.827	0.000	100.0#	0#	-7.01#
33	i	1-br-2-nb_Toxaphene	^	1.000	1.000	0.0	0	-1.43#
34	l2	toxaphene-1	*	0.022	0.000	100.0#	0#	-5.19#
35	l2	toxaphene-2	*	0.033	0.000	100.0#	0#	-5.22#
36	l2	toxaphene-4	*	0.038	0.000	100.0#	0#	-5.53#
37	l2	toxaphene-5	*	0.036	0.000	100.0#	0#	-5.94#

* Evaluation of CC level amount vs concentration.
(#) = Out of Range SPCC's out = 0 CCC's out = 0
(^) = ISTD area calculated using ICAL average

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest10\2024\240502ical\
Data File : 10240502i-21.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 May 2024 7:26 pm
Operator : PEST10:jag
Sample : cicvchlor,42e,,pp 11540 L1.0ICV
Misc : wg1919460, (Sig #1); ical (Sig #2)
ALS Vial : 21 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 07 18:08:37 2024
Quant Method : I:\PEST\Pest10\2024\240502ical\pest10_2024_05_02_ugL_ical.m
Quant Title : pest
QLast Update : Tue May 07 18:07:37 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

		Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
		Internal Standards						
1)	i	1-br-2-nb_Pe	0.000	0.000	0	0	N.D. d	N.D. d
28)	i	1-br-2-nb_Ch	1.317	1.428	392.9E6	140.4E6	25.000M4	25.000M4
33)	i	1-br-2-nb_To	0.000	0.000	0	0	N.D. d	N.D. d
		System Monitoring Compounds						
2)	s	2,4,5,6-Tetr	0.000	0.000	0	0	N.D. d	N.D. d
		Spiked Amount	50.000	Range 30 - 150		Recovery =	0.00%#	0.00%#
27)	s	Decachlorobi	0.000	0.000	0	0	N.D. d	N.D. d
		Spiked Amount	50.000	Range 30 - 150		Recovery =	0.00%#	0.00%#
		Target Compounds						
3)	t	Hexachlorobe	0.000	0.000	0	0	N.D. d	N.D. d
4)	t	alpha-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5)	t	gamma-BHC (l	0.000	0.000	0	0	N.D. d	N.D. d
6)	t	beta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7)	t	delta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
8)	t	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
9)	t	Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
10)	t	Alachlor	0.000	0.000	0	0	N.D. d	N.D. d
11)	t	Chlorpyrifos	0.000	0.000	0	0	N.D. d	N.D. d
12)	t	Heptachlor E	0.000	0.000	0	0	N.D. d	N.D. d
13)	t	gamma-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
14)	t	alpha-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
15)	t	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
16)	t	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
17)	t	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
18)	t	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
19)	t	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
20)	t	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
21)	t	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
22)	t	Endrin Aldeh	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest10\2024\240502ical\
Data File : 10240502i-21.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 May 2024 7:26 pm
Operator : PEST10:jag
Sample : cicvchlor,42e,,pp 11540 L1.0ICV
Misc : wg1919460, (Sig #1); ical (Sig #2)
ALS Vial : 21 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 07 18:08:37 2024
Quant Method : I:\PEST\Pest10\2024\240502ical\pest10_2024_05_02_ugL_ical.m
Quant Title : pest
QLast Update : Tue May 07 18:07:37 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
23) t	Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d
24) t	Mirex	0.000	0.000	0	0	N.D. d	N.D. d
25) t	Endosulfan S	0.000	0.000	0	0	N.D. d	N.D. d
26) t	Endrin Keton	0.000	0.000	0	0	N.D. d	N.D. d
29) l1	chlordane-1	2.464	2.915	518.7E6	175.6E6	918.124	972.342
30) l1	chlordane-3	2.527	3.536	794.8E6	205.1E6	697.488	975.775
31) l1	chlordane-4	2.883	4.233	611.1E6	684.6E6	945.251M4	926.696
32) l1	chlordane-5	3.440	4.399	2201.6E6	535.4E6	892.521	924.346
Sum	chlordane-1			4126.2E6	1600.7E6	NoCal	NoCal D
Average	chlordane-1					863.346	949.790
34) l2	toxaphene-1	0.000	0.000	0	0	N.D. d	N.D. d
35) l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
36) l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
37) l2	toxaphene-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

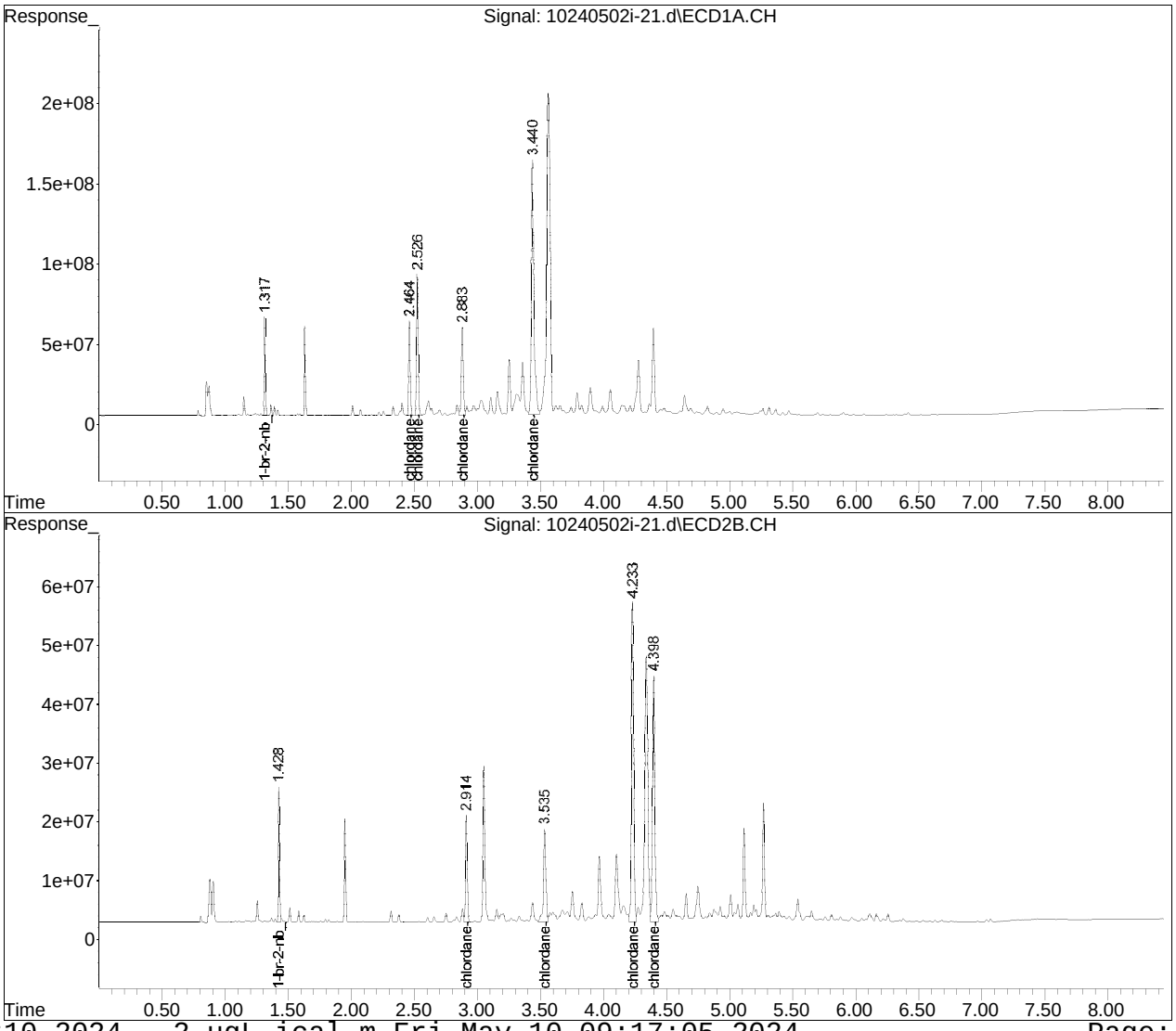
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest10\2024\240502ical\
Data File : 10240502i-21.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 May 2024 7:26 pm
Operator : PEST10:jag
Sample : cicvchlor,42e,,pp 11540 L1.0ICV
Misc : wg1919460, (Sig #1); ical (Sig #2)
ALS Vial : 21 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 07 18:08:37 2024
Quant Method : I:\PEST\Pest10\2024\240502ical\pest10_2024_05_02_ugL_ical.m
Quant Title : pest
QLast Update : Tue May 07 18:07:37 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

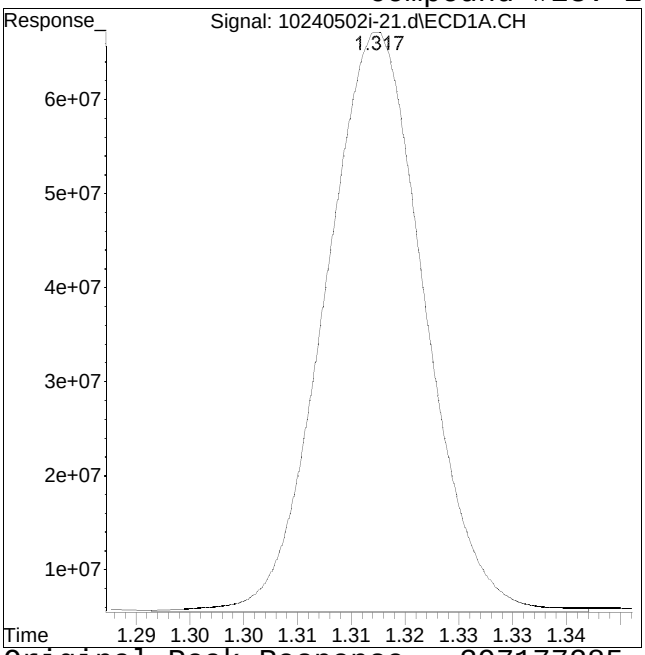
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

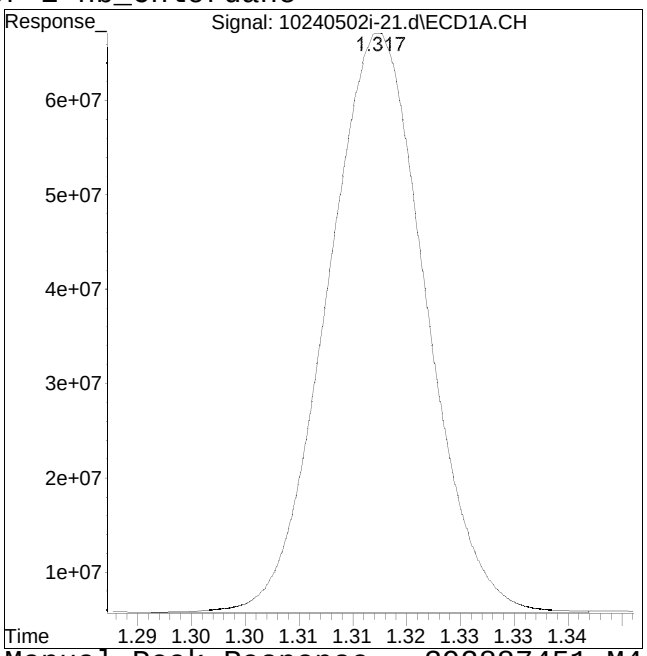


Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-21.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 7:26 pm Instrument : Pest 10
Sample : cicvchlor,42e,,pp 11540 L1Quant Date : 5/7/2024 6:08 pm

Compound #28: 1-br-2-nb_Chlordane



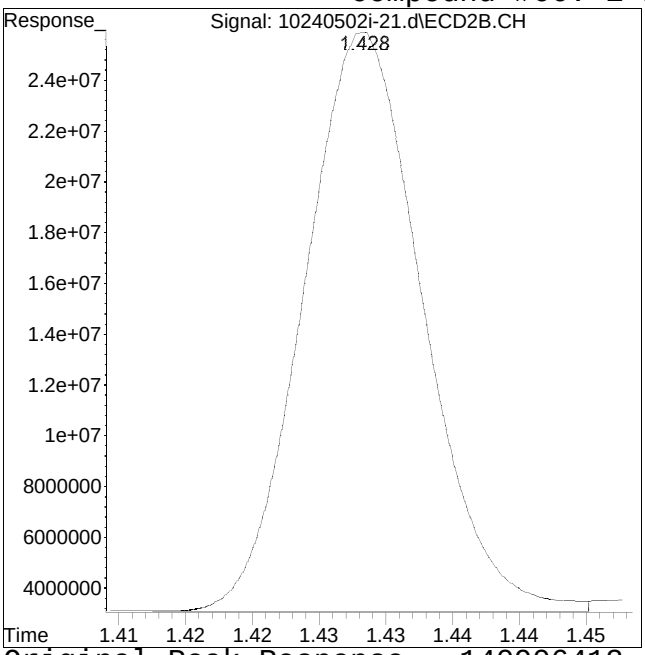


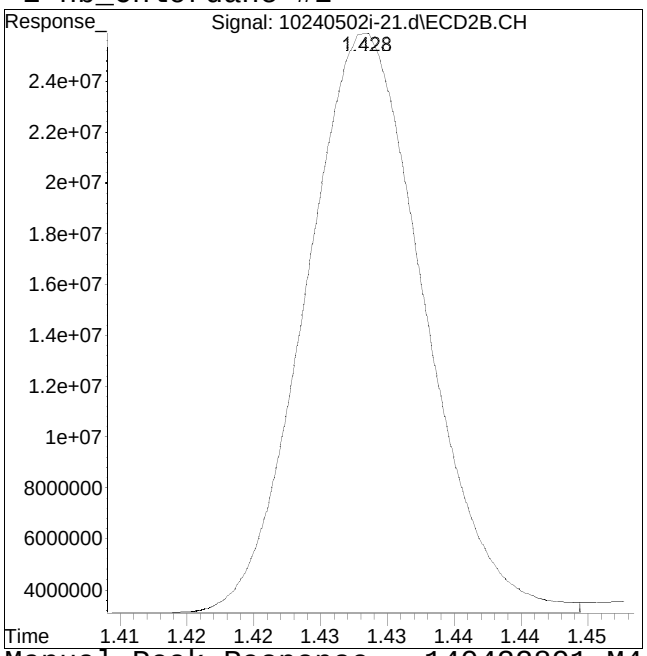
Original Peak Response = 397177285 Manual Peak Response = 392887451 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-21.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 7:26 pm Instrument : Pest 10
Sample : cicvchlor,42e,,pp 11540 L1Quant Date : 5/7/2024 6:08 pm

Compound #66: 1-br-2-nb_Chlordane #2



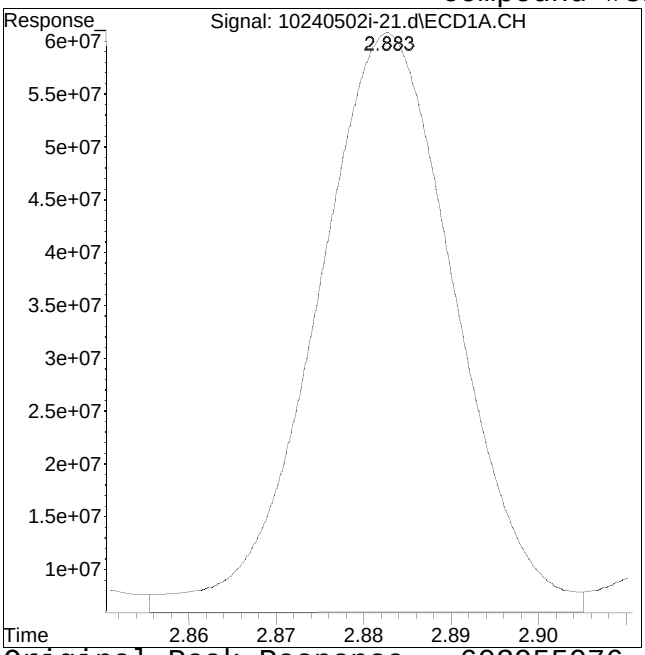


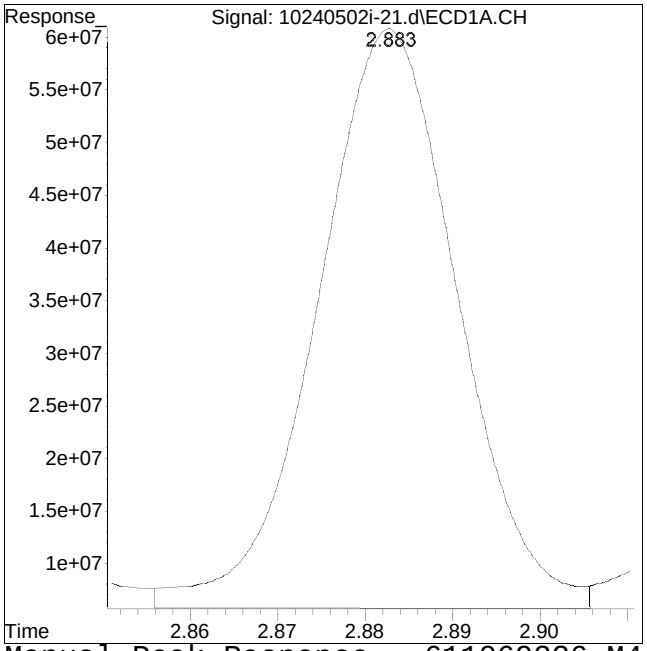
Original Peak Response = 140906412 Manual Peak Response = 140422891 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-21.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 7:26 pm Instrument : Pest 10
Sample : cicvchlor,42e,,pp 11540 L1Quant Date : 5/7/2024 6:08 pm

Compound #31: chlordane-4





Original Peak Response = 603955976 Manual Peak Response = 611069226 M4
M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest10\2024\240502ical\
Data File : 10240502i-22.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 May 2024 7:37 pm
Operator : PEST10:jag
Sample : il3tox,42e,,pp 11519 L0.02
Misc : wg1919460, (Sig #1); ical (Sig #2)
ALS Vial : 22 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 07 18:17:08 2024
Quant Method : I:\PEST\Pest10\2024\240502ical\pest10_2024_05_02_ugL_ical.m
Quant Title : pest
QLast Update : Tue May 07 18:16:57 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

		Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
		Internal Standards						
1)	i	1-br-2-nb_Pe	0.000	0.000	0	0	N.D. d	N.D. d
28)	i	1-br-2-nb_Ch	0.000	0.000	0	0	N.D. d	N.D. d
33)	i	1-br-2-nb_To	1.318	1.428	360.5E6	128.5E6	25.000	25.000M3
		System Monitoring Compounds						
2)	s	2,4,5,6-Tetr	0.000	0.000	0	0	N.D. d	N.D. d
		Spiked Amount	50.000	Range 30 - 150		Recovery =	0.00%#	0.00%#
27)	s	Decachlorobi	0.000	0.000	0	0	N.D. d	N.D. d
		Spiked Amount	50.000	Range 30 - 150		Recovery =	0.00%#	0.00%#
		Target Compounds						
3)	t	Hexachlorobe	0.000	0.000	0	0	N.D. d	N.D. d
4)	t	alpha-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5)	t	gamma-BHC (l	0.000	0.000	0	0	N.D. d	N.D. d
6)	t	beta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7)	t	delta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
8)	t	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
9)	t	Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
10)	t	Alachlor	0.000	0.000	0	0	N.D. d	N.D. d
11)	t	Chlorpyrifos	0.000	0.000	0	0	N.D. d	N.D. d
12)	t	Heptachlor E	0.000	0.000	0	0	N.D. d	N.D. d
13)	t	gamma-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
14)	t	alpha-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
15)	t	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
16)	t	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
17)	t	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
18)	t	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
19)	t	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
20)	t	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
21)	t	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
22)	t	Endrin Aldeh	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest10\2024\240502ical\
Data File : 10240502i-22.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 May 2024 7:37 pm
Operator : PEST10:jag
Sample : il3tox,42e,,pp 11519 L0.02
Misc : wg1919460, (Sig #1); ical (Sig #2)
ALS Vial : 22 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 07 18:17:08 2024
Quant Method : I:\PEST\Pest10\2024\240502ical\pest10_2024_05_02_ugL_ical.m
Quant Title : pest
QLast Update : Tue May 07 18:16:57 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
23) t	Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d
24) t	Mirex	0.000	0.000	0	0	N.D. d	N.D. d
25) t	Endosulfan S	0.000	0.000	0	0	N.D. d	N.D. d
26) t	Endrin Keton	0.000	0.000	0	0	N.D. d	N.D. d
29) l1	chlordane-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l1	chlordane-3	0.000	0.000	0	0	N.D. d	N.D. d
31) l1	chlordane-4	0.000	0.000	0	0	N.D. d	N.D. d
32) l1	chlordane-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	chlordane-1			0	0	N.D.	N.D.
Average	chlordane-1					0.000	0.000
34) l2	toxaphene-1	4.459	5.191	22031557	2809067	36.543M3	25.863M3
35) l2	toxaphene-2	4.583	5.218	12202607	4372138	21.821M3	27.502M3
36) l2	toxaphene-4	5.001	5.531	16904756	4720911	34.292M4	24.947M3
37) l2	toxaphene-5	5.185	5.937	18852382	4684651	33.158M4	26.800M3
Sum	toxaphene-1			69991301	16586767	125.814	105.112
Average	toxaphene-1					31.454	26.278

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	toxaphene-1			69991301	16586767	125.814	105.112
Average	toxaphene-1					31.454	26.278

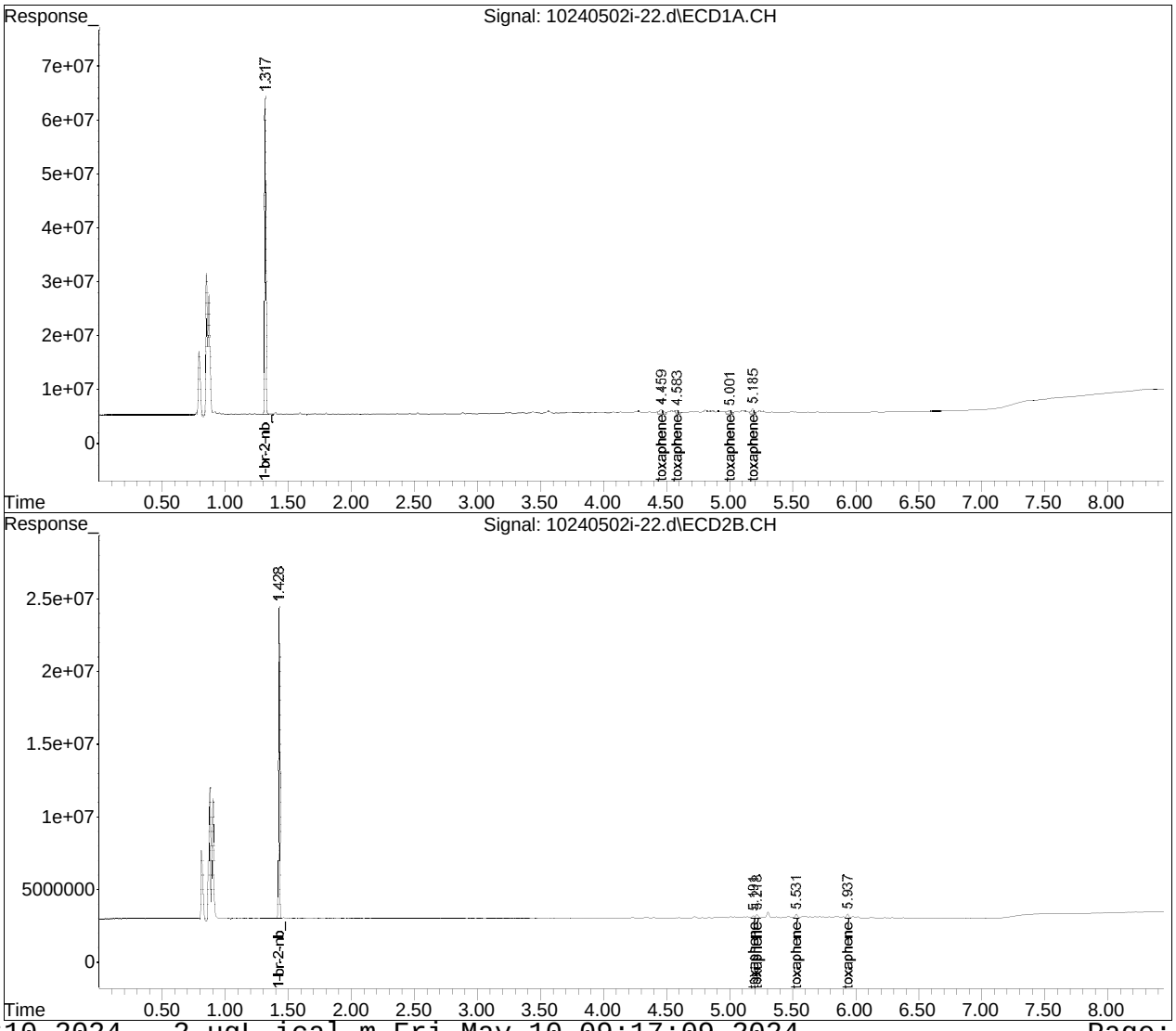
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest10\2024\240502ical\
Data File : 10240502i-22.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 May 2024 7:37 pm
Operator : PEST10:jag
Sample : il3tox,42e,,pp 11519 L0.02
Misc : wg1919460, (Sig #1); ical (Sig #2)
ALS Vial : 22 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 07 18:17:08 2024
Quant Method : I:\PEST\Pest10\2024\240502ical\pest10_2024_05_02_ugL_ical.m
Quant Title : pest
QLast Update : Tue May 07 18:16:57 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

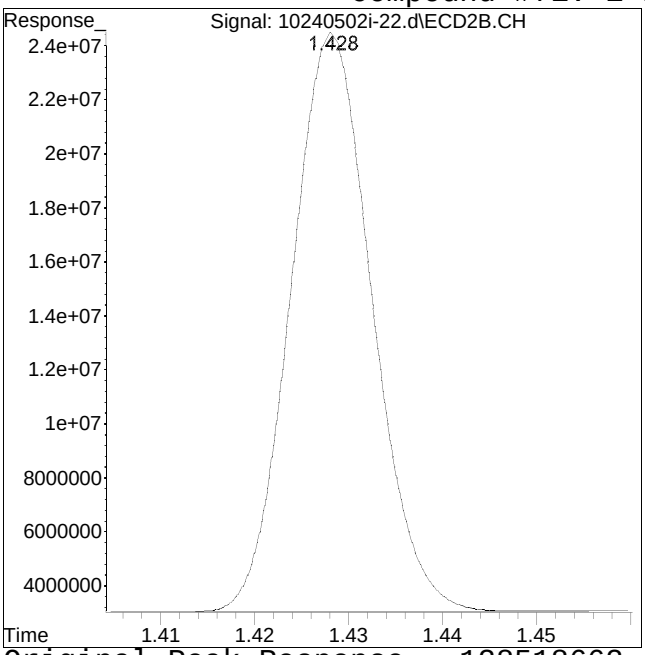
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

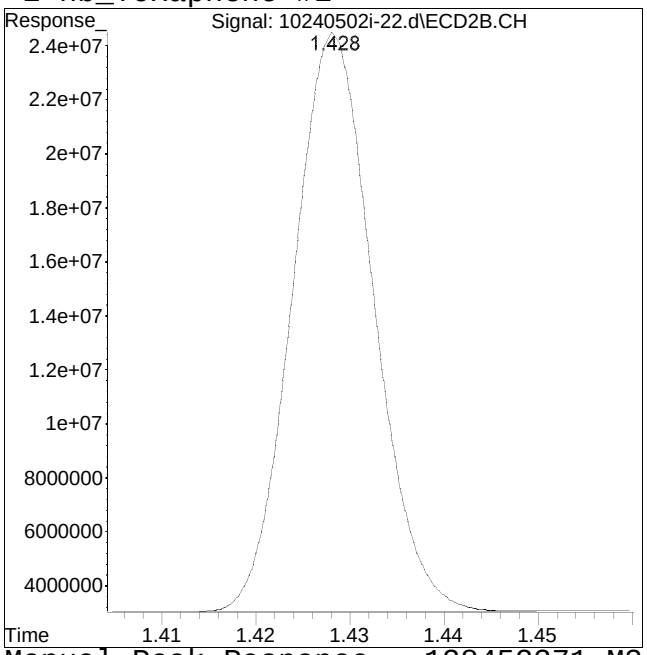


Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-22.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 7:37 pm Instrument : Pest 10
Sample : il3tox,42e,,pp 11519 L0.02Quant Date : 5/7/2024 6:17 pm

Compound #71: 1-br-2-nb_Toxaphene #2



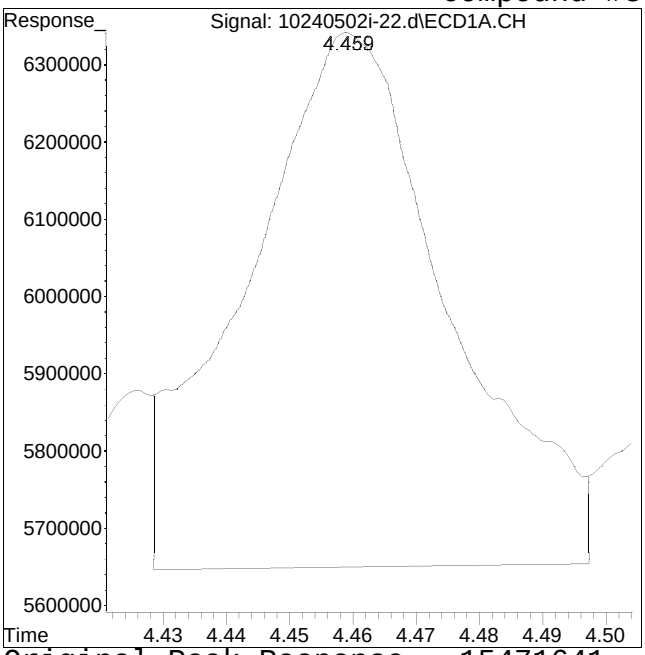


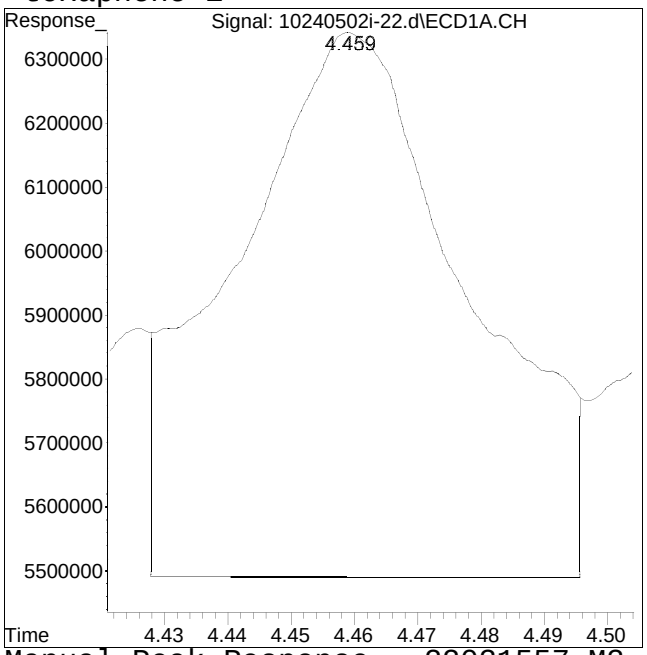
Original Peak Response = 128518662 Manual Peak Response = 128452371 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-22.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 7:37 pm Instrument : Pest 10
Sample : il3tox,42e,,pp 11519 L0.02Quant Date : 5/7/2024 6:17 pm

Compound #34: toxaphene-1



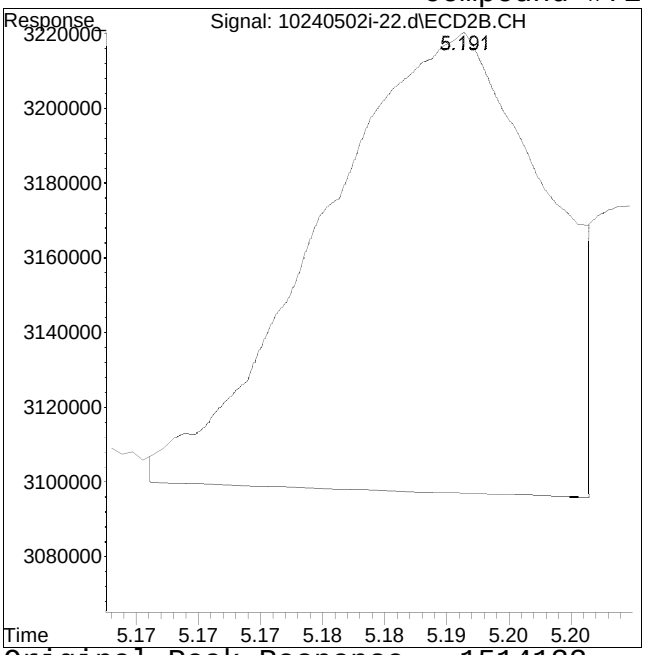


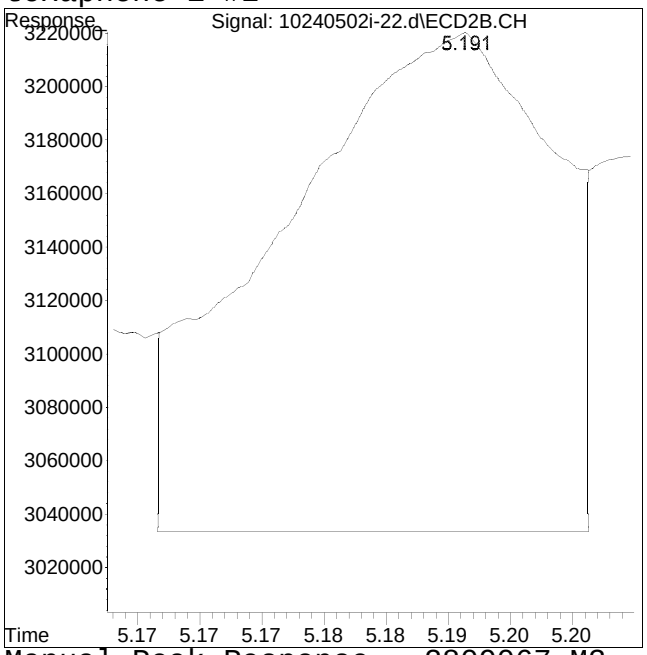
Original Peak Response = 15471641 Manual Peak Response = 22031557 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-22.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 7:37 pm Instrument : Pest 10
Sample : il3tox,42e,,pp 11519 L0.02Quant Date : 5/7/2024 6:17 pm

Compound #72: toxaphene-1 #2



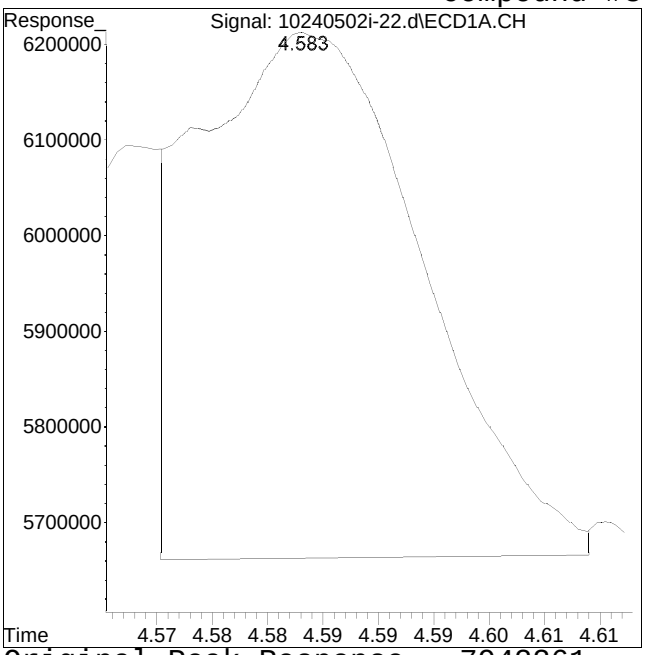


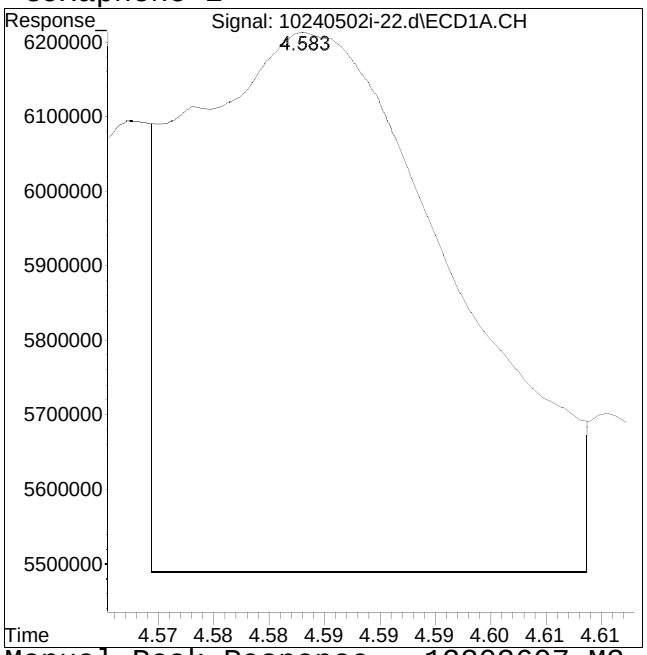
Original Peak Response = 1514133 Manual Peak Response = 2809067 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-22.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 7:37 pm Instrument : Pest 10
Sample : il3tox,42e,,pp 11519 L0.02Quant Date : 5/7/2024 6:17 pm

Compound #35: toxaphene-2



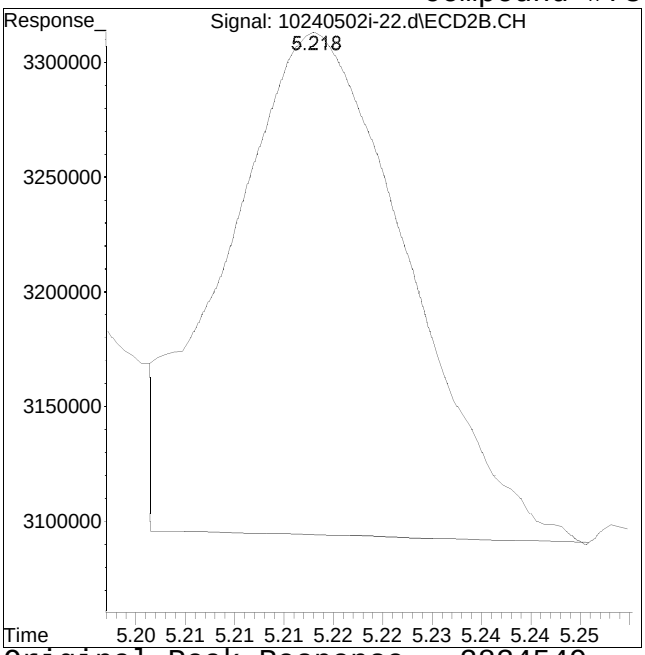


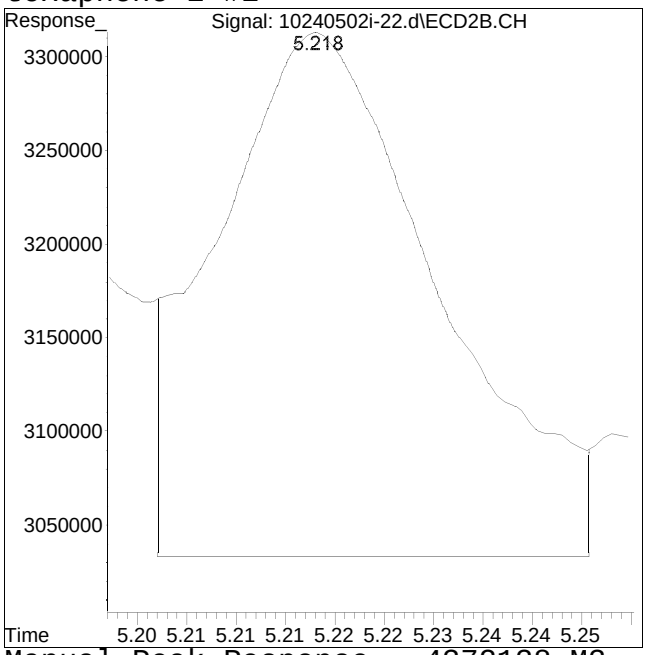
Original Peak Response = 7942261 Manual Peak Response = 12202607 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-22.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 7:37 pm Instrument : Pest 10
Sample : il3tox,42e,,pp 11519 L0.02Quant Date : 5/7/2024 6:17 pm

Compound #73: toxaphene-2 #2



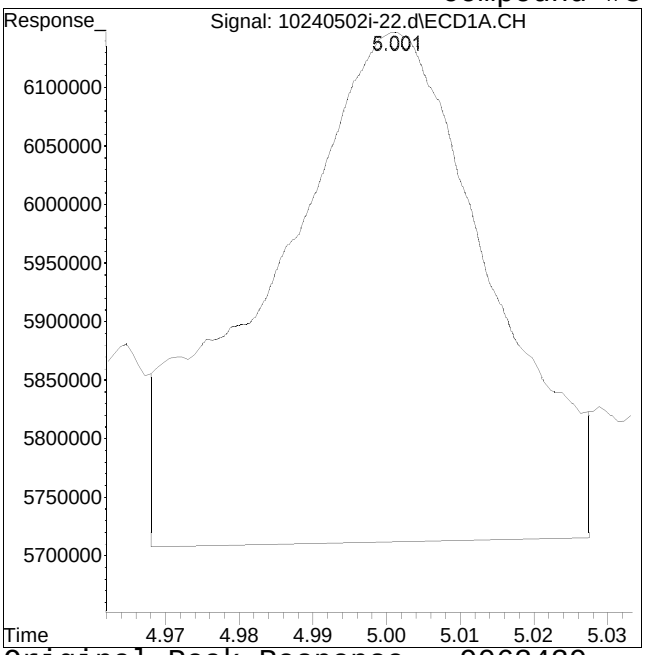


Original Peak Response = 2834549 Manual Peak Response = 4372138 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

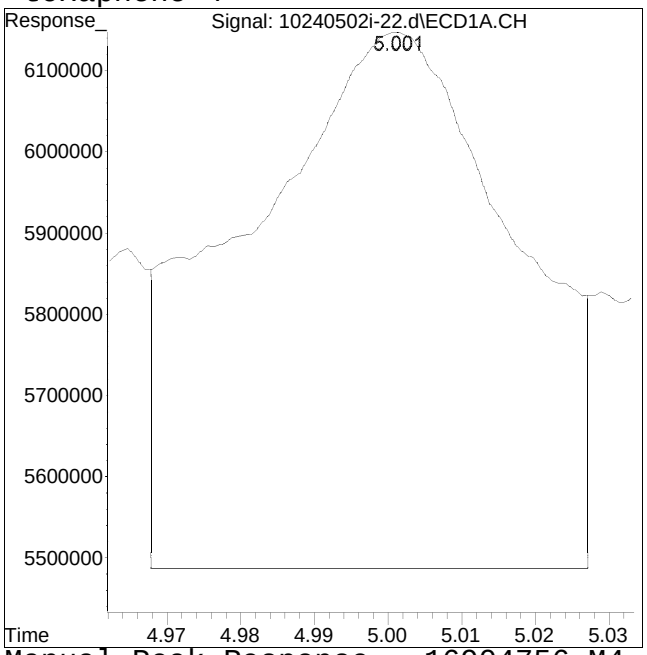
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-22.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 7:37 pm Instrument : Pest 10
Sample : il3tox,42e,,pp 11519 L0.02Quant Date : 5/7/2024 6:17 pm

Compound #36: toxaphene-4



Original Peak Response = 9063439



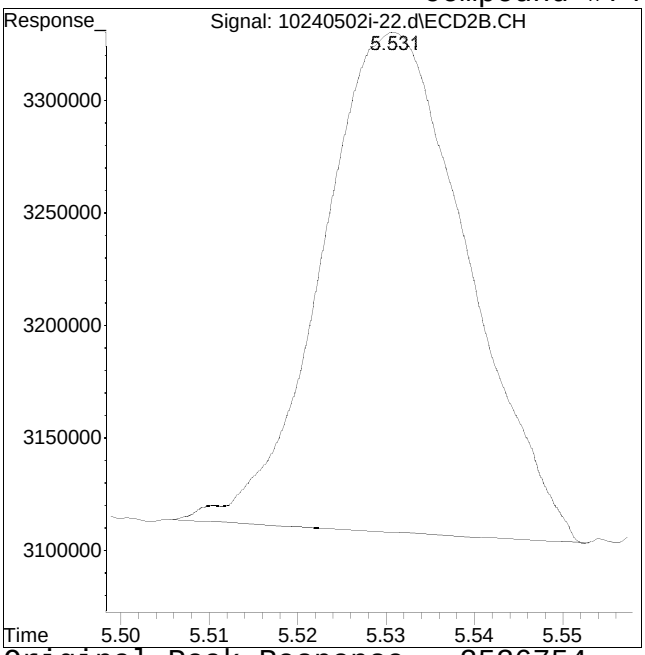
Manual Peak Response = 16904756 M4

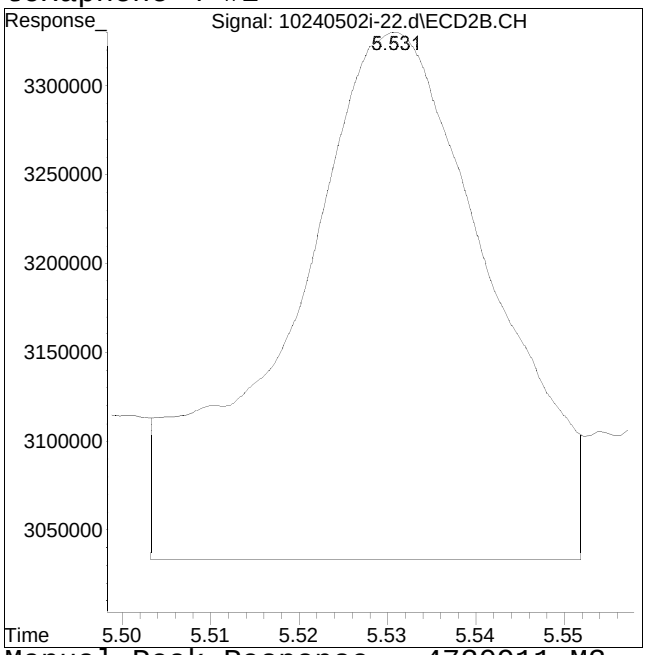
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-22.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 7:37 pm Instrument : Pest 10
Sample : il3tox,42e,,pp 11519 L0.02Quant Date : 5/7/2024 6:17 pm

Compound #74: toxaphene-4 #2



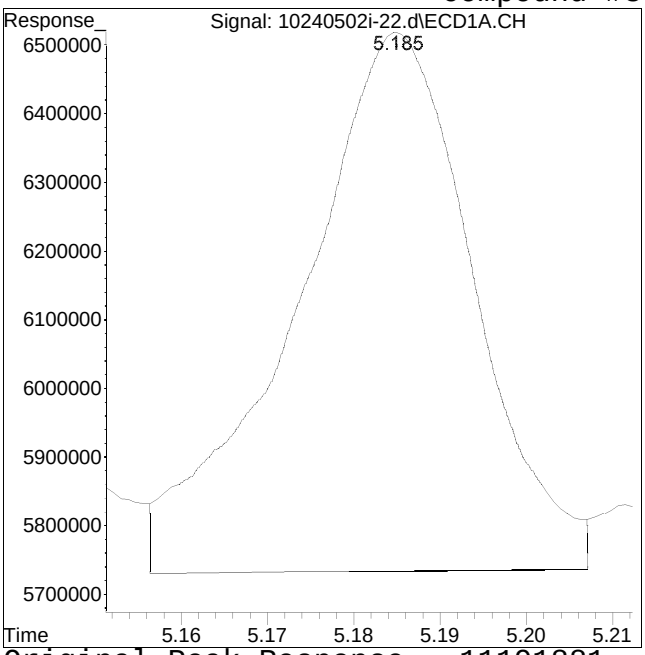


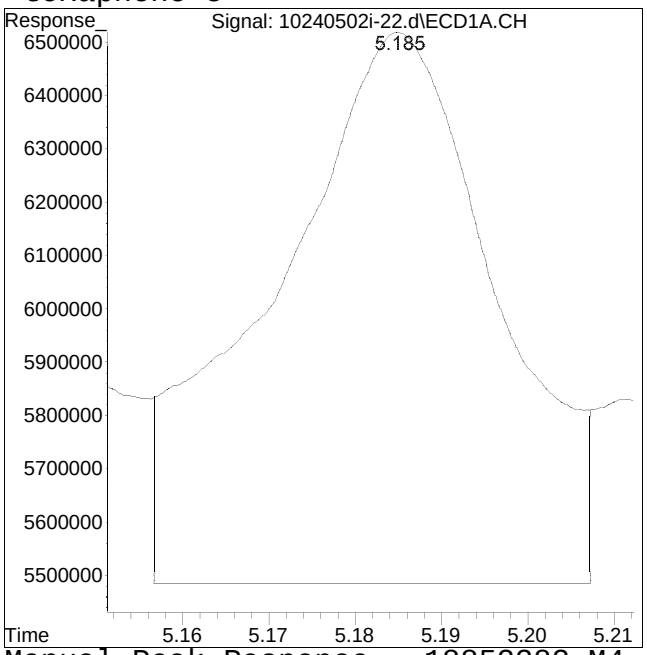
Original Peak Response = 2536754 Manual Peak Response = 4720911 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-22.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 7:37 pm Instrument : Pest 10
Sample : il3tox,42e,,pp 11519 L0.02Quant Date : 5/7/2024 6:17 pm

Compound #37: toxaphene-5



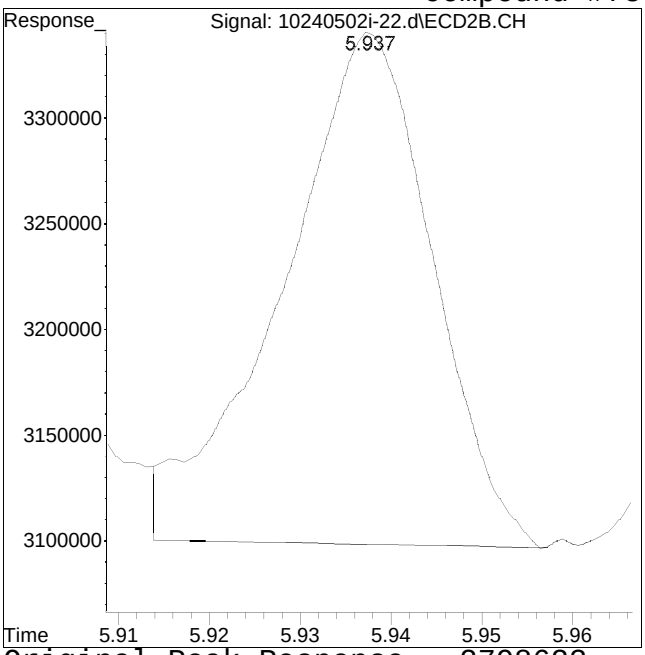


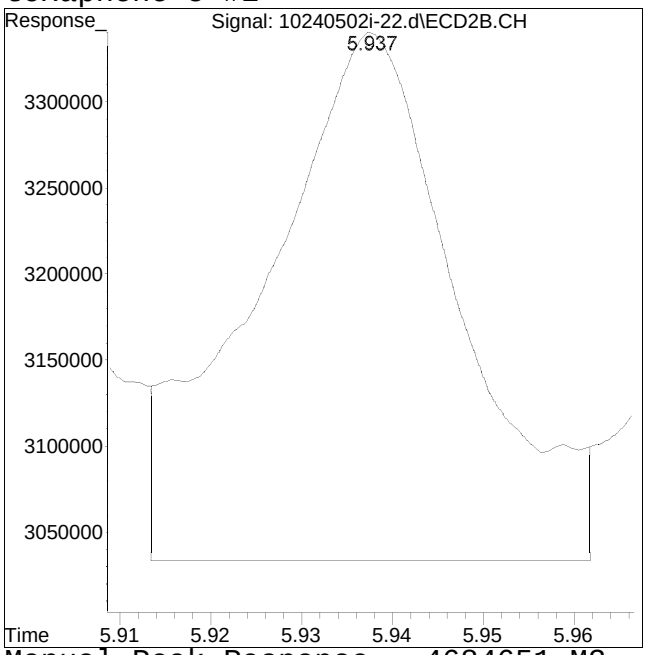
Original Peak Response = 11191881 Manual Peak Response = 18852382 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-22.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 7:37 pm Instrument : Pest 10
Sample : il3tox,42e,,pp 11519 L0.02Quant Date : 5/7/2024 6:17 pm

Compound #75: toxaphene-5 #2





Original Peak Response = 2798623 Manual Peak Response = 4684651 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest10\2024\240502ical\
Data File : 10240502i-23.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 May 2024 7:48 pm
Operator : PEST10:jag
Sample : il4tox,42e,,pp 11518 L0.1
Misc : wg1919460, (Sig #1); ical (Sig #2)
ALS Vial : 23 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 10 08:37:25 2024
Quant Method : I:\PEST\Pest10\2024\240502ical\pest10_2024_05_02_ugL_ical.m
Quant Title : pest
QLast Update : Thu May 09 15:44:48 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	0.000	0.000	0	0	N.D. d	N.D. d
28) i	1-br-2-nb_Ch	0.000	0.000	0	0	N.D. d	N.D. d
33) i	1-br-2-nb_To	1.318	1.429	378.8E6	133.0E6	25.000	25.000
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150	Recovery	=	0.00%#	0.00%#
27) s	Decachlorobi	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150	Recovery	=	0.00%#	0.00%#
	Target Compounds						
3) t	Hexachlorobe	0.000	0.000	0	0	N.D.	N.D.
4) t	alpha-BHC	0.000	0.000	0	0	N.D.	N.D.
5) t	gamma-BHC (l	0.000	0.000	0	0	N.D.	N.D.
6) t	beta-BHC	0.000	0.000	0	0	N.D.	N.D.
7) t	delta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
8) t	Heptachlor	0.000	0.000	0	0	N.D.	N.D.
9) t	Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
10) t	Alachlor	0.000	0.000	0	0	N.D. d	N.D. d
11) t	Chlorpyrifos	0.000	0.000	0	0	N.D. d	N.D. d
12) t	Heptachlor E	0.000	0.000	0	0	N.D. d	N.D. d
13) t	gamma-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
14) t	alpha-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
15) t	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
16) t	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
17) t	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
18) t	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
19) t	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
20) t	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
21) t	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
22) t	Endrin Aldeh	0.000	0.000	0	0	N.D. d	N.D. d
23) t	Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest10\2024\240502ical\
Data File : 10240502i-23.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 May 2024 7:48 pm
Operator : PEST10:jag
Sample : il4tox,42e,,pp 11518 L0.1
Misc : wg1919460, (Sig #1); ical (Sig #2)
ALS Vial : 23 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 10 08:37:25 2024
Quant Method : I:\PEST\Pest10\2024\240502ical\pest10_2024_05_02_ugL_ical.m
Quant Title : pest
QLast Update : Thu May 09 15:44:48 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
24) t	Mirex	0.000	0.000	0	0	N.D. d	N.D. d
25) t	Endosulfan S	0.000	0.000	0	0	N.D. d	N.D. d
26) t	Endrin Keton	0.000	0.000	0	0	N.D. d	N.D. d
29) l1	chlordane-1	0.000	0.000	0	0	N.D.	N.D.
30) l1	chlordane-3	0.000	0.000	0	0	N.D.	N.D.
31) l1	chlordane-4	0.000	0.000	0	0	N.D. d	N.D. d
32) l1	chlordane-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	chlordane-1			0	0	N.D.	N.D.
Average	chlordane-1					0.000	0.000
34) l2	toxaphene-1	4.461	5.189	65859633	12311955	91.266	105.923M4
35) l2	toxaphene-2	4.584	5.219	58014480	17029091	98.058	97.830M4
36) l2	toxaphene-4	5.001	5.531	50443334	20484244	86.146	100.919M4
37) l2	toxaphene-5	5.185	5.937	59464470	18458698	89.306	96.935M4
Sum	toxaphene-1			233.8E6	68283988	364.776	401.608
Average	toxaphene-1					91.194	100.402

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	toxaphene-1			233.8E6	68283988	364.776	401.608
Average	toxaphene-1					91.194	100.402

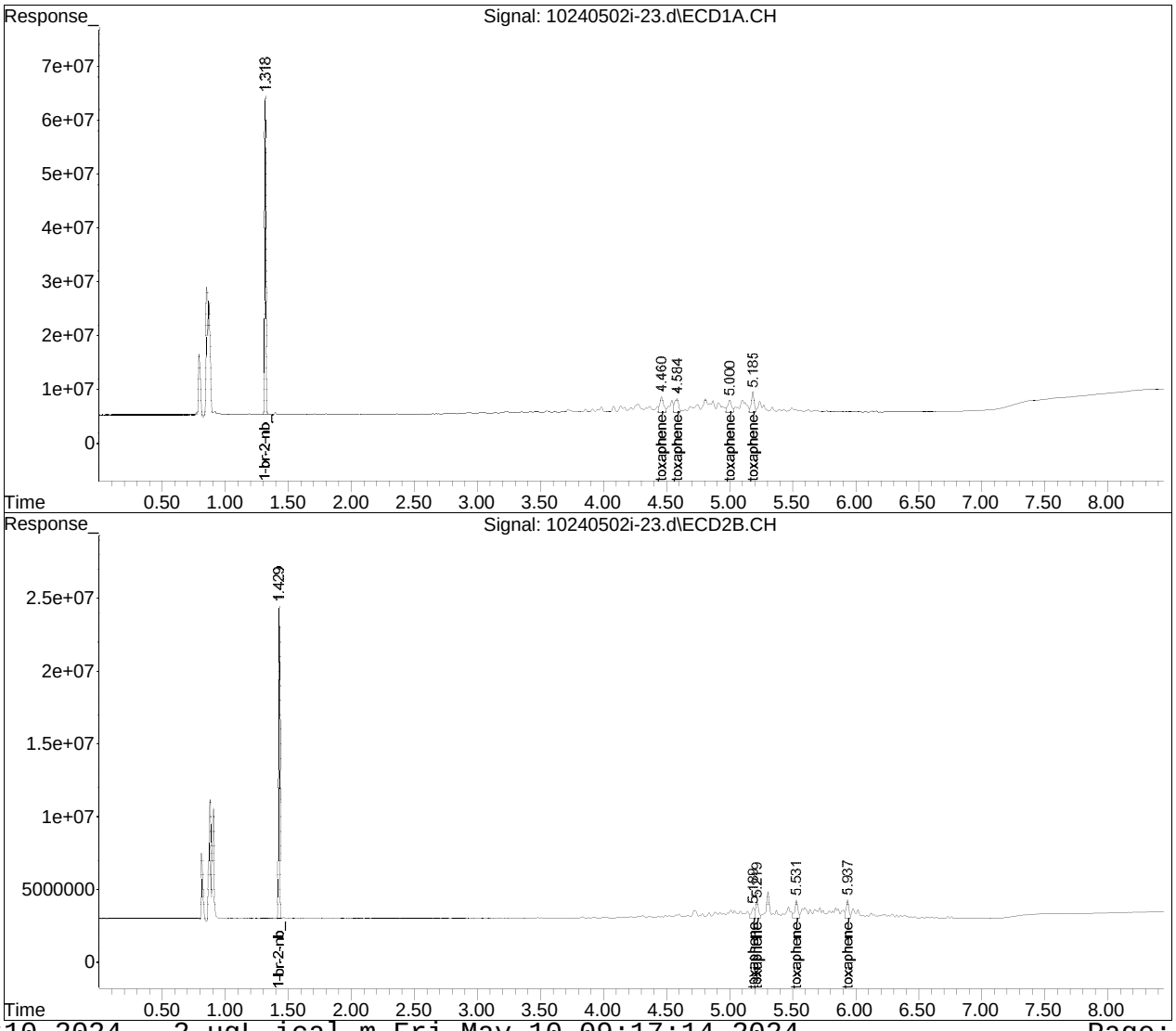
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest10\2024\240502ical\
Data File : 10240502i-23.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 May 2024 7:48 pm
Operator : PEST10:jag
Sample : il4tox,42e,,pp 11518 L0.1
Misc : wg1919460, (Sig #1); ical (Sig #2)
ALS Vial : 23 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 10 08:37:25 2024
Quant Method : I:\PEST\Pest10\2024\240502ical\pest10_2024_05_02_ugL_ical.m
Quant Title : pest
QLast Update : Thu May 09 15:44:48 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

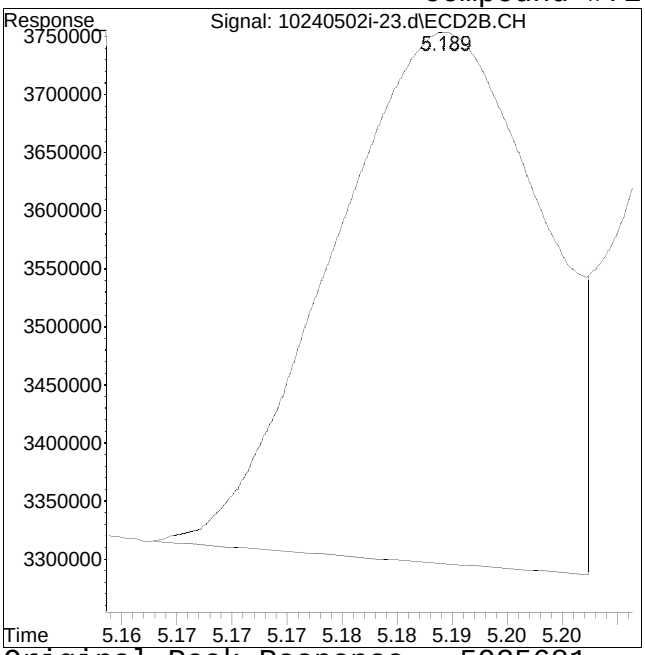
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

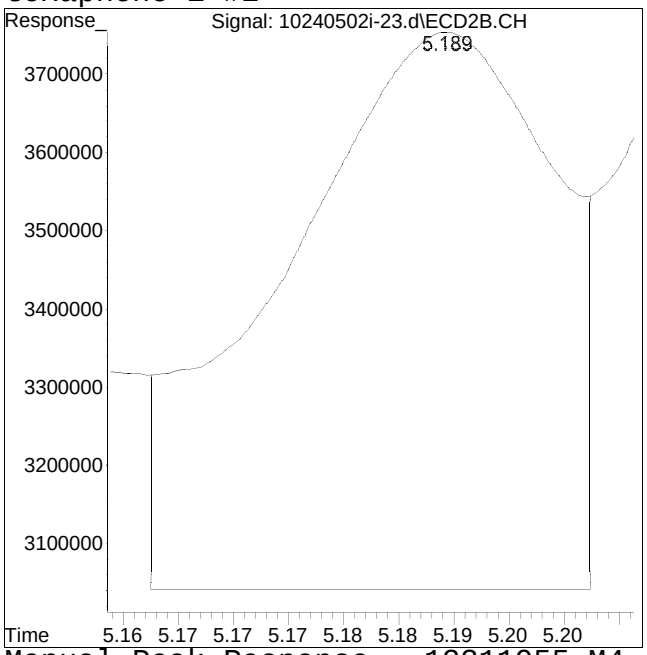


Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-23.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 7:48 pm Instrument : Pest 10
Sample : il4tox,42e,,pp 11518 L0.1 Quant Date : 5/10/2024 8:37 am

Compound #72: toxaphene-1 #2



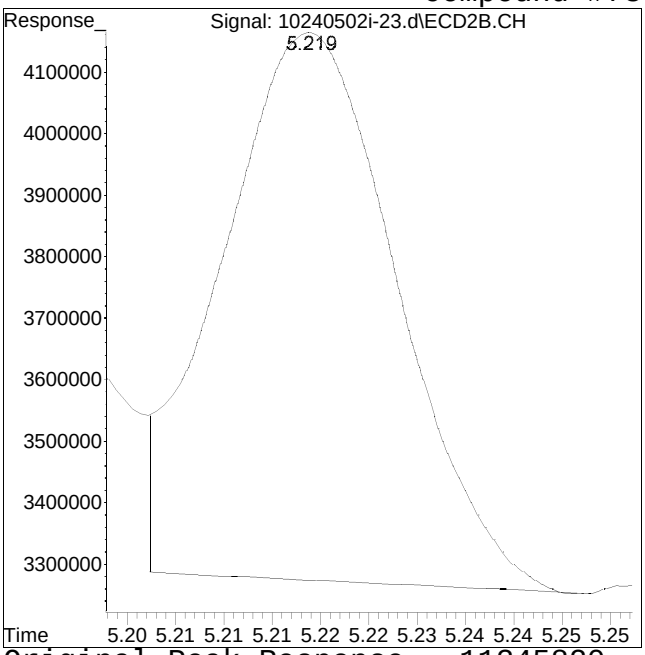


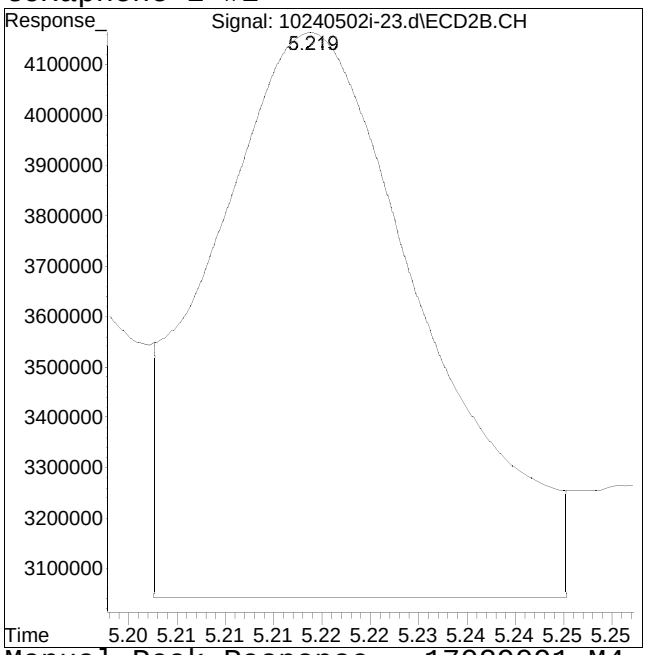
Original Peak Response = 5935681 Manual Peak Response = 12311955 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-23.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 7:48 pm Instrument : Pest 10
Sample : il4tox,42e,,pp 11518 L0.1 Quant Date : 5/10/2024 8:37 am

Compound #73: toxaphene-2 #2



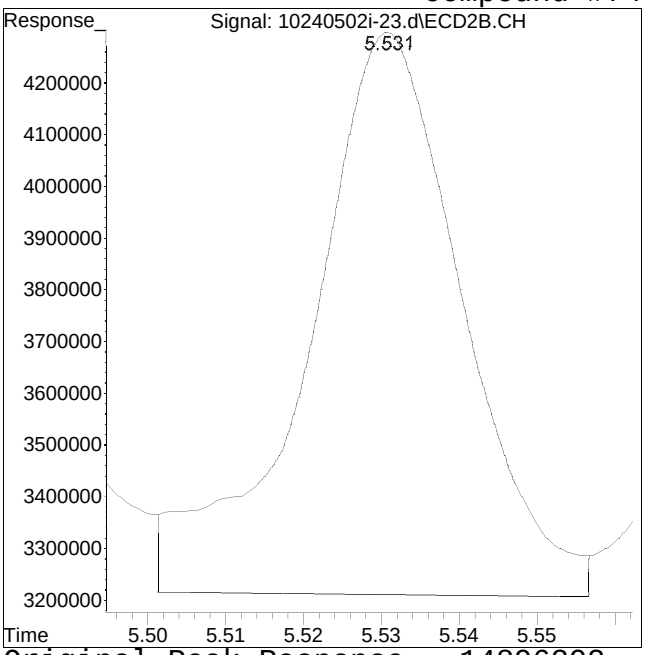


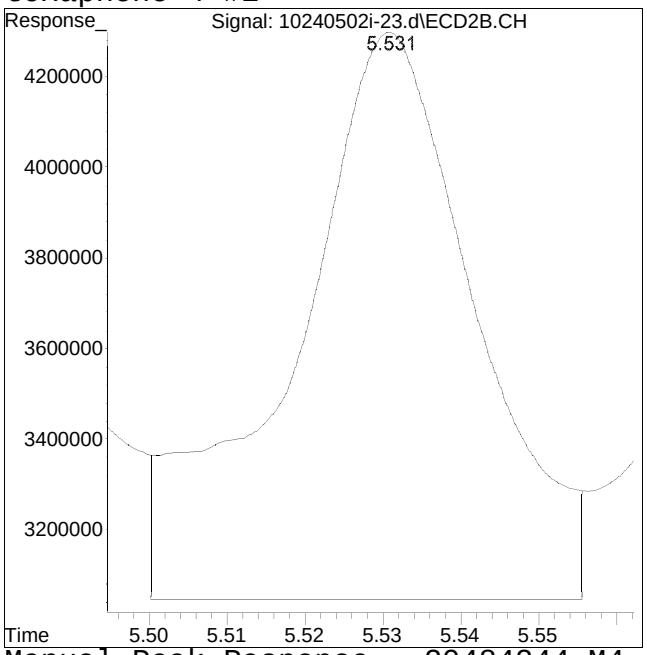
Original Peak Response = 11345820 Manual Peak Response = 17029091 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-23.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 7:48 pm Instrument : Pest 10
Sample : il4tox,42e,,pp 11518 L0.1 Quant Date : 5/10/2024 8:37 am

Compound #74: toxaphene-4 #2



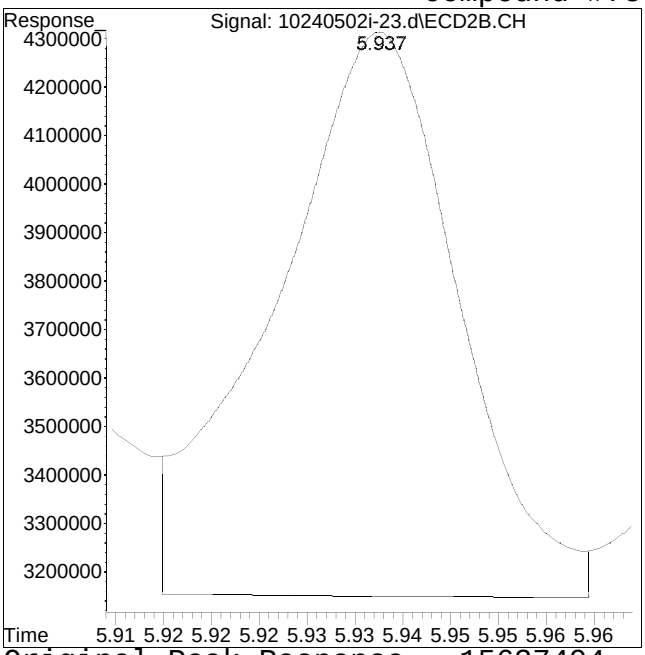


Original Peak Response = 14896292 Manual Peak Response = 20484244 M4
M4 = Poor automated baseline construction.

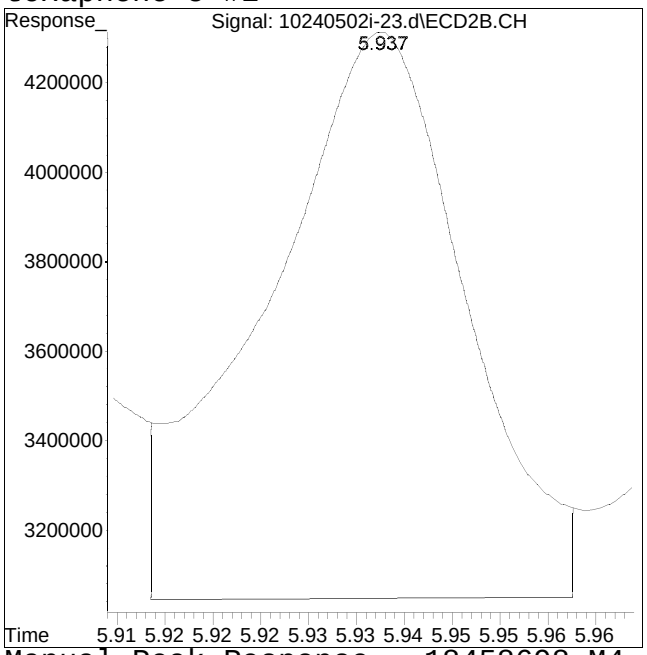
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-23.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 7:48 pm Instrument : Pest 10
Sample : il4tox,42e,,pp 11518 L0.1 Quant Date : 5/10/2024 8:37 am

Compound #75: toxaphene-5 #2



Original Peak Response = 15637494



Manual Peak Response = 18458698 M4

M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest10\2024\240502ical\
Data File : 10240502i-24.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 May 2024 8:00 pm
Operator : PEST10:jag
Sample : il7tox,42e,,pp 11517 L1.0
Misc : wg1919460, (Sig #1); ical (Sig #2)
ALS Vial : 24 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 07 18:12:54 2024
Quant Method : I:\PEST\Pest10\2024\240502ical\pest10_2024_05_02_ugL_ical.m
Quant Title : pest
QLast Update : Tue May 07 18:12:40 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	0.000	0.000	0	0	N.D. d	N.D. d
28) i	1-br-2-nb_Ch	0.000	0.000	0	0	N.D. d	N.D. d
33) i	1-br-2-nb_To	1.318	1.429	387.3E6	135.8E6	25.000M4	25.000
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount 50.000	Range 30 - 150		Recovery =		0.00%#	0.00%#
27) s	Decachlorobi	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount 50.000	Range 30 - 150		Recovery =		0.00%#	0.00%#
	Target Compounds						
3) t	Hexachlorobe	0.000	0.000	0	0	N.D. d	N.D. d
4) t	alpha-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5) t	gamma-BHC (l	0.000	0.000	0	0	N.D. d	N.D. d
6) t	beta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7) t	delta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
8) t	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
9) t	Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
10) t	Alachlor	0.000	0.000	0	0	N.D. d	N.D. d
11) t	Chlorpyrifos	0.000	0.000	0	0	N.D. d	N.D. d
12) t	Heptachlor E	0.000	0.000	0	0	N.D. d	N.D. d
13) t	gamma-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
14) t	alpha-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
15) t	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
16) t	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
17) t	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
18) t	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
19) t	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
20) t	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
21) t	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
22) t	Endrin Aldeh	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\PEST\Pest10\2024\240502ical\
Data File : 10240502i-24.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 May 2024 8:00 pm
Operator : PEST10:jag
Sample : il7tox,42e,,pp 11517 L1.0
Misc : wg1919460, (Sig #1); ical (Sig #2)
ALS Vial : 24 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 07 18:12:54 2024
Quant Method : I:\PEST\Pest10\2024\240502ical\pest10_2024_05_02_ugL_ical.m
Quant Title : pest
QLast Update : Tue May 07 18:12:40 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
23) t	Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d
24) t	Mirex	0.000	0.000	0	0	N.D. d	N.D. d
25) t	Endosulfan S	0.000	0.000	0	0	N.D. d	N.D. d
26) t	Endrin Keton	0.000	0.000	0	0	N.D. d	N.D. d
29) l1	chlordane-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l1	chlordane-3	0.000	0.000	0	0	N.D. d	N.D. d
31) l1	chlordane-4	0.000	0.000	0	0	N.D. d	N.D. d
32) l1	chlordane-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	chlordane-1			0	0	N.D.	N.D.
Average	chlordane-1					0.000	0.000
34) l2	toxaphene-1	4.461	5.190	623.3E6	107.5E6	1030.632	979.972
35) l2	toxaphene-2	4.584	5.219	584.7E6	162.2E6	1024.928	991.822
36) l2	toxaphene-4	5.001	5.531	500.9E6	191.1E6	1008.991	974.782
37) l2	toxaphene-5	5.185	5.938	587.1E6	176.4E6	1011.844	982.712
Sum	toxaphene-1			2296.0E6	637.3E6	4076.395	3929.288
Average	toxaphene-1					1019.099	982.322

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	toxaphene-1			2296.0E6	637.3E6	4076.395	3929.288
Average	toxaphene-1					1019.099	982.322

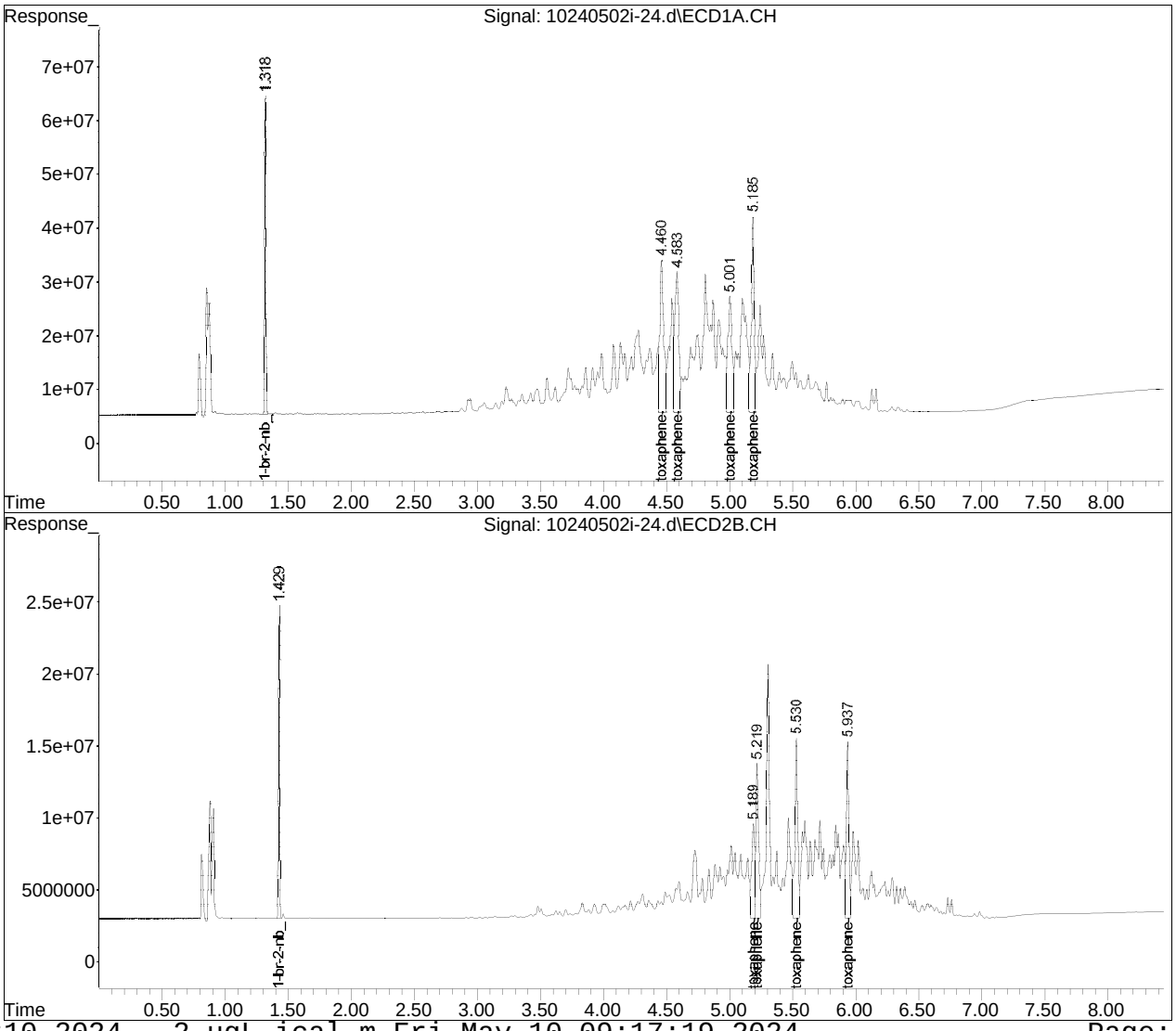
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest10\2024\240502ical\
Data File : 10240502i-24.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 May 2024 8:00 pm
Operator : PEST10:jag
Sample : il7tox,42e,,pp 11517 L1.0
Misc : wg1919460, (Sig #1); ical (Sig #2)
ALS Vial : 24 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 07 18:12:54 2024
Quant Method : I:\PEST\Pest10\2024\240502ical\pest10_2024_05_02_ugL_ical.m
Quant Title : pest
QLast Update : Tue May 07 18:12:40 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

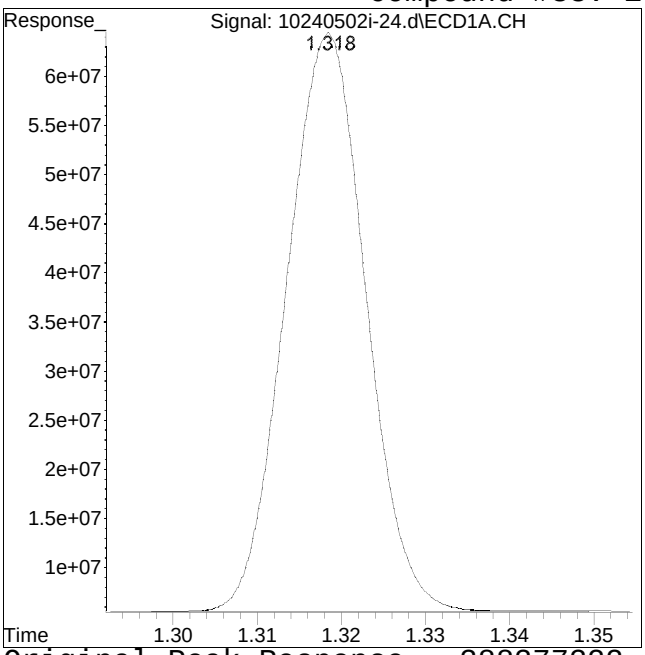
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



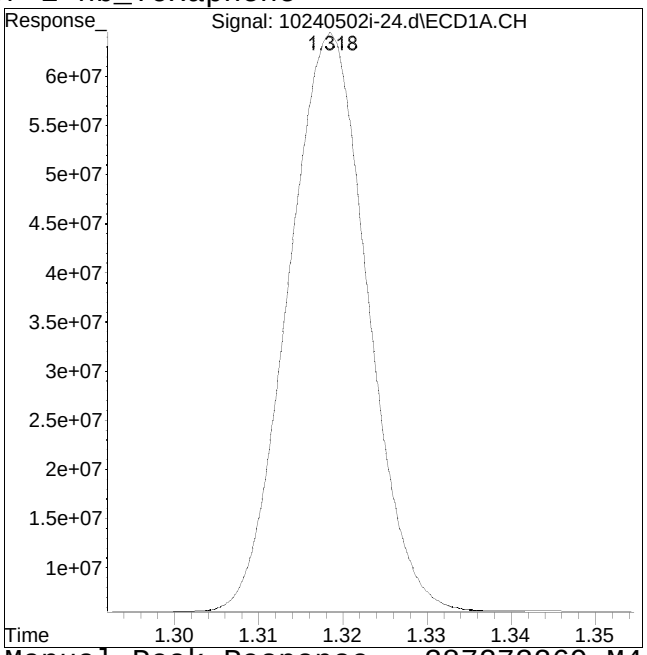
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-24.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 8:00 pm Instrument : Pest 10
Sample : il7tox,42e,,pp 11517 L1.0 Quant Date : 5/7/2024 6:12 pm

Compound #33: 1-br-2-nb_Toxaphene



Original Peak Response = 388377322



Manual Peak Response = 387273269 M4

M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest10\2024\240502ical\
Data File : 10240502i-25.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 May 2024 8:11 pm
Operator : PEST10:jag
Sample : il8tox,42e,,pp 11516 L2.0
Misc : wg1919460, (Sig #1); ical (Sig #2)
ALS Vial : 25 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 07 18:09:48 2024
Quant Method : I:\PEST\Pest10\2024\240502ical\pest10_2024_05_02_ugL_ical.m
Quant Title : pest
QLast Update : Tue May 07 18:07:37 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

		Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
		Internal Standards						
1)	i	1-br-2-nb_Pe	0.000	0.000	0	0	N.D. d	N.D. d
28)	i	1-br-2-nb_Ch	0.000	0.000	0	0	N.D. d	N.D. d
33)	i	1-br-2-nb_To	1.317	1.428	383.2E6	131.9E6	25.000M3	25.000M4
		System Monitoring Compounds						
2)	s	2,4,5,6-Tetr	0.000	0.000	0	0	N.D. d	N.D. d
		Spiked Amount	50.000	Range 30 - 150		Recovery =	0.00%#	0.00%#
27)	s	Decachlorobi	0.000	0.000	0	0	N.D. d	N.D. d
		Spiked Amount	50.000	Range 30 - 150		Recovery =	0.00%#	0.00%#
		Target Compounds						
3)	t	Hexachlorobe	0.000	0.000	0	0	N.D. d	N.D. d
4)	t	alpha-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5)	t	gamma-BHC (l	0.000	0.000	0	0	N.D. d	N.D. d
6)	t	beta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7)	t	delta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
8)	t	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
9)	t	Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
10)	t	Alachlor	0.000	0.000	0	0	N.D. d	N.D. d
11)	t	Chlorpyrifos	0.000	0.000	0	0	N.D. d	N.D. d
12)	t	Heptachlor E	0.000	0.000	0	0	N.D. d	N.D. d
13)	t	gamma-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
14)	t	alpha-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
15)	t	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
16)	t	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
17)	t	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
18)	t	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
19)	t	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
20)	t	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
21)	t	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
22)	t	Endrin Aldeh	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\PEST\Pest10\2024\240502ical\
Data File : 10240502i-25.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 May 2024 8:11 pm
Operator : PEST10:jag
Sample : il8tox,42e,,pp 11516 L2.0
Misc : wg1919460, (Sig #1); ical (Sig #2)
ALS Vial : 25 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 07 18:09:48 2024
Quant Method : I:\PEST\Pest10\2024\240502ical\pest10_2024_05_02_ugL_ical.m
Quant Title : pest
QLast Update : Tue May 07 18:07:37 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
23) t	Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d
24) t	Mirex	0.000	0.000	0	0	N.D. d	N.D. d
25) t	Endosulfan S	0.000	0.000	0	0	N.D. d	N.D. d
26) t	Endrin Keton	0.000	0.000	0	0	N.D. d	N.D. d
29) l1	chlordane-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l1	chlordane-3	0.000	0.000	0	0	N.D. d	N.D. d
31) l1	chlordane-4	0.000	0.000	0	0	N.D. d	N.D. d
32) l1	chlordane-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	chlordane-1			0	0	N.D.	N.D.
Average	chlordane-1					0.000	0.000
34) l2	toxaphene-1	4.461	5.189	1191.6E6	212.3E6	NoCal	NoCal
35) l2	toxaphene-2	4.584	5.219	1122.6E6	314.1E6	NoCal	NoCal
36) l2	toxaphene-4	5.001	5.531	975.5E6	374.6E6	NoCal	NoCal
37) l2	toxaphene-5	5.185	5.937	1138.3E6	344.0E6	NoCal	NoCal
Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

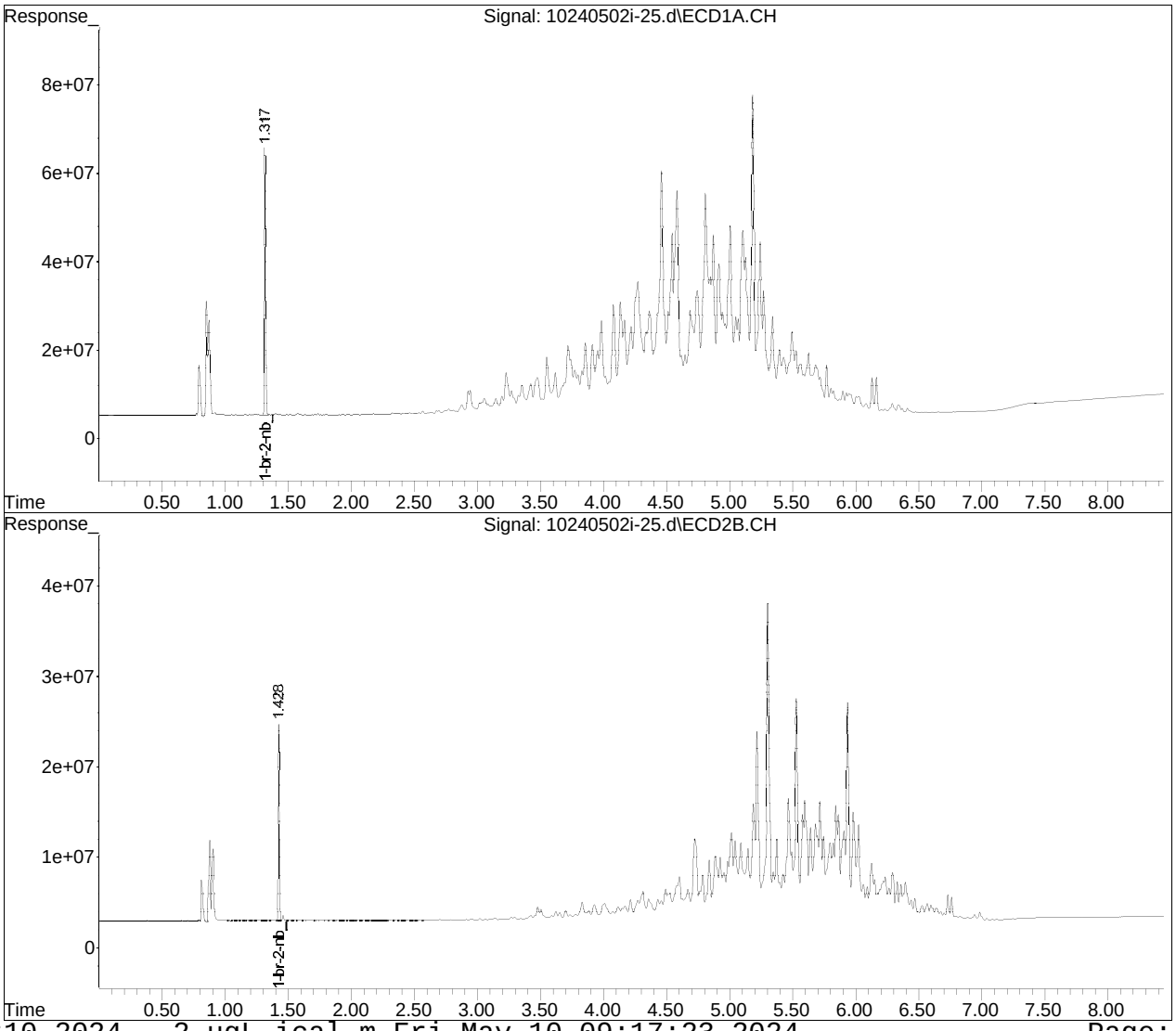
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest10\2024\240502ical\
Data File : 10240502i-25.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 May 2024 8:11 pm
Operator : PEST10:jag
Sample : il8tox,42e,,pp 11516 L2.0
Misc : wg1919460, (Sig #1); ical (Sig #2)
ALS Vial : 25 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 07 18:09:48 2024
Quant Method : I:\PEST\Pest10\2024\240502ical\pest10_2024_05_02_ugL_ical.m
Quant Title : pest
QLast Update : Tue May 07 18:07:37 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

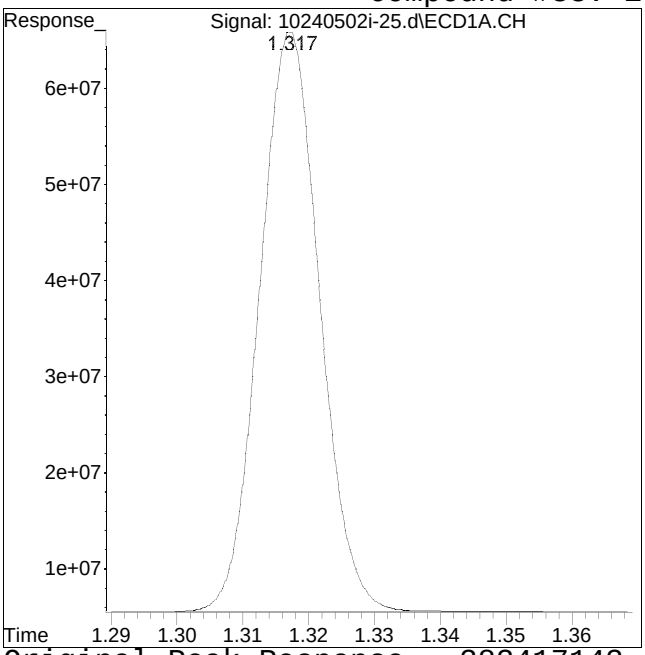
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

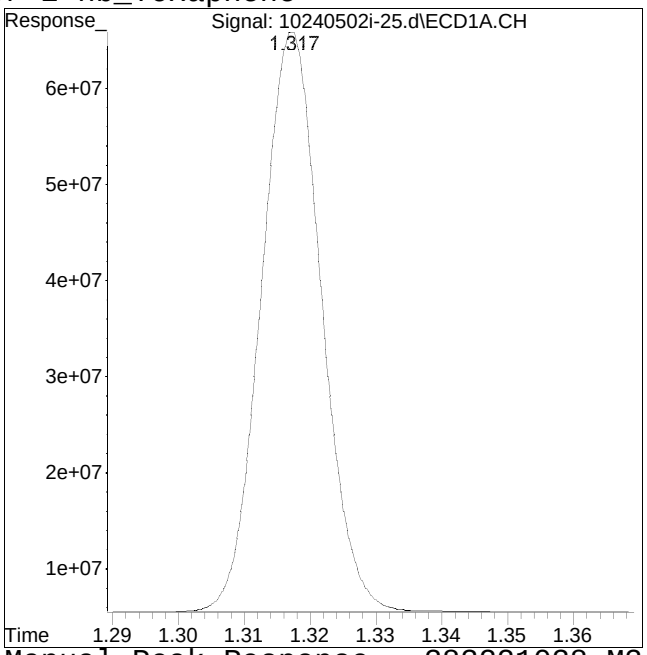


Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-25.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 8:11 pm Instrument : Pest 10
Sample : il8tox,42e,,pp 11516 L2.0 Quant Date : 5/7/2024 6:09 pm

Compound #33: 1-br-2-nb_Toxaphene



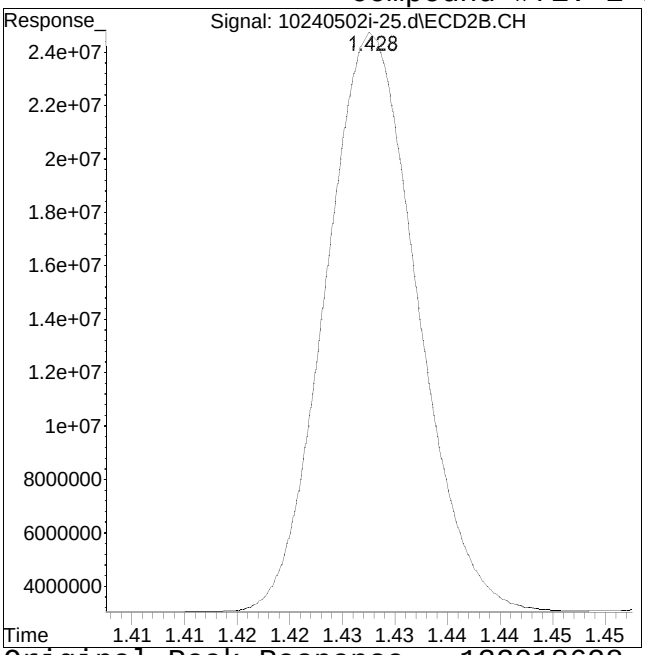


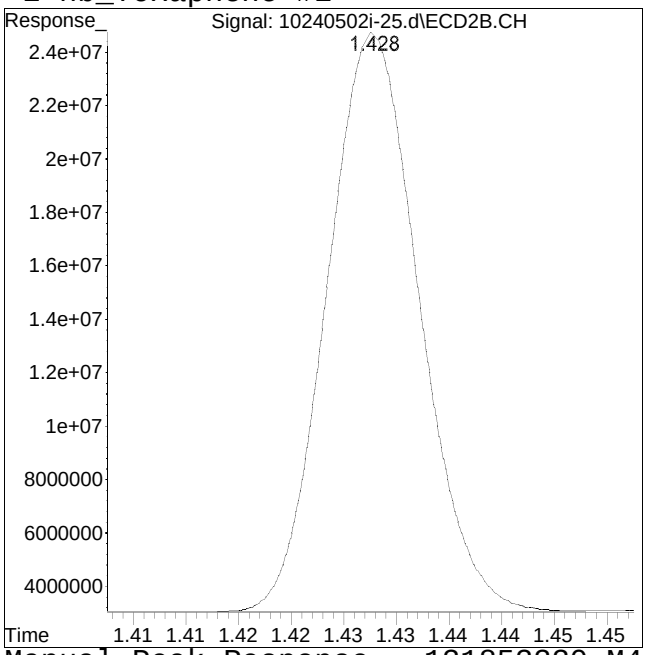
Original Peak Response = 383417143 Manual Peak Response = 383221038 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-25.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 8:11 pm Instrument : Pest 10
Sample : il8tox,42e,,pp 11516 L2.0 Quant Date : 5/7/2024 6:09 pm

Compound #71: 1-br-2-nb_Toxaphene #2





Original Peak Response = 132018628 Manual Peak Response = 131853330 M4
M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest10\2024\240502ical\
Data File : 10240502i-26.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 May 2024 8:22 pm
Operator : PEST10:jag
Sample : il9tox,42e,,pp 11510 L5.0
Misc : wg1919460, (Sig #1); ical (Sig #2)
ALS Vial : 26 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 07 18:11:37 2024
Quant Method : I:\PEST\Pest10\2024\240502ical\pest10_2024_05_02_ugL_ical.m
Quant Title : pest
QLast Update : Tue May 07 18:11:19 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound		RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards							
1)	i	1-br-2-nb_Pe	0.000	0.000	0	0	N.D. d	N.D. d
28)	i	1-br-2-nb_Ch	0.000	0.000	0	0	N.D. d	N.D. d
33)	i	1-br-2-nb_To	1.317	1.428	397.2E6	133.7E6	25.000M4	25.000M4
	System Monitoring Compounds							
2)	s	2,4,5,6-Tetr	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount		50.000	Range 30 - 150		Recovery =	0.00%#	0.00%#
27)	s	Decachlorobi	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount		50.000	Range 30 - 150		Recovery =	0.00%#	0.00%#
	Target Compounds							
3)	t	Hexachlorobe	0.000	0.000	0	0	N.D. d	N.D. d
4)	t	alpha-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5)	t	gamma-BHC (l	0.000	0.000	0	0	N.D. d	N.D. d
6)	t	beta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7)	t	delta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
8)	t	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
9)	t	Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
10)	t	Alachlor	0.000	0.000	0	0	N.D. d	N.D. d
11)	t	Chlorpyrifos	0.000	0.000	0	0	N.D. d	N.D. d
12)	t	Heptachlor E	0.000	0.000	0	0	N.D. d	N.D. d
13)	t	gamma-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
14)	t	alpha-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
15)	t	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
16)	t	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
17)	t	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
18)	t	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
19)	t	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
20)	t	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
21)	t	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
22)	t	Endrin Aldeh	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\PEST\Pest10\2024\240502ical\
Data File : 10240502i-26.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 May 2024 8:22 pm
Operator : PEST10:jag
Sample : il9tox,42e,,pp 11510 L5.0
Misc : wg1919460, (Sig #1); ical (Sig #2)
ALS Vial : 26 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 07 18:11:37 2024
Quant Method : I:\PEST\Pest10\2024\240502ical\pest10_2024_05_02_ugL_ical.m
Quant Title : pest
QLast Update : Tue May 07 18:11:19 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
23) t	Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d
24) t	Mirex	0.000	0.000	0	0	N.D. d	N.D. d
25) t	Endosulfan S	0.000	0.000	0	0	N.D. d	N.D. d
26) t	Endrin Keton	0.000	0.000	0	0	N.D. d	N.D. d
29) l1	chlordane-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l1	chlordane-3	0.000	0.000	0	0	N.D. d	N.D. d
31) l1	chlordane-4	0.000	0.000	0	0	N.D. d	N.D. d
32) l1	chlordane-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	chlordane-1			0	0	N.D.	N.D.
Average	chlordane-1					0.000	0.000
34) l2	toxaphene-1	4.459	5.188	3114.9E6	542.1E6	5043.544	5035.455
35) l2	toxaphene-2	4.583	5.218	2942.3E6	814.2E6	5057.013	5111.940
36) l2	toxaphene-4	4.999	5.530	2564.5E6	980.5E6	5072.519	5161.139
37) l2	toxaphene-5	5.184	5.936	3002.3E6	895.4E6	5089.132	5133.246
Sum	toxaphene-1			11624.0E6	3232.2E6	20262.209	20441.781
Average	toxaphene-1					5065.552	5110.445

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	toxaphene-1			11624.0E6	3232.2E6	20262.209	20441.781
Average	toxaphene-1					5065.552	5110.445

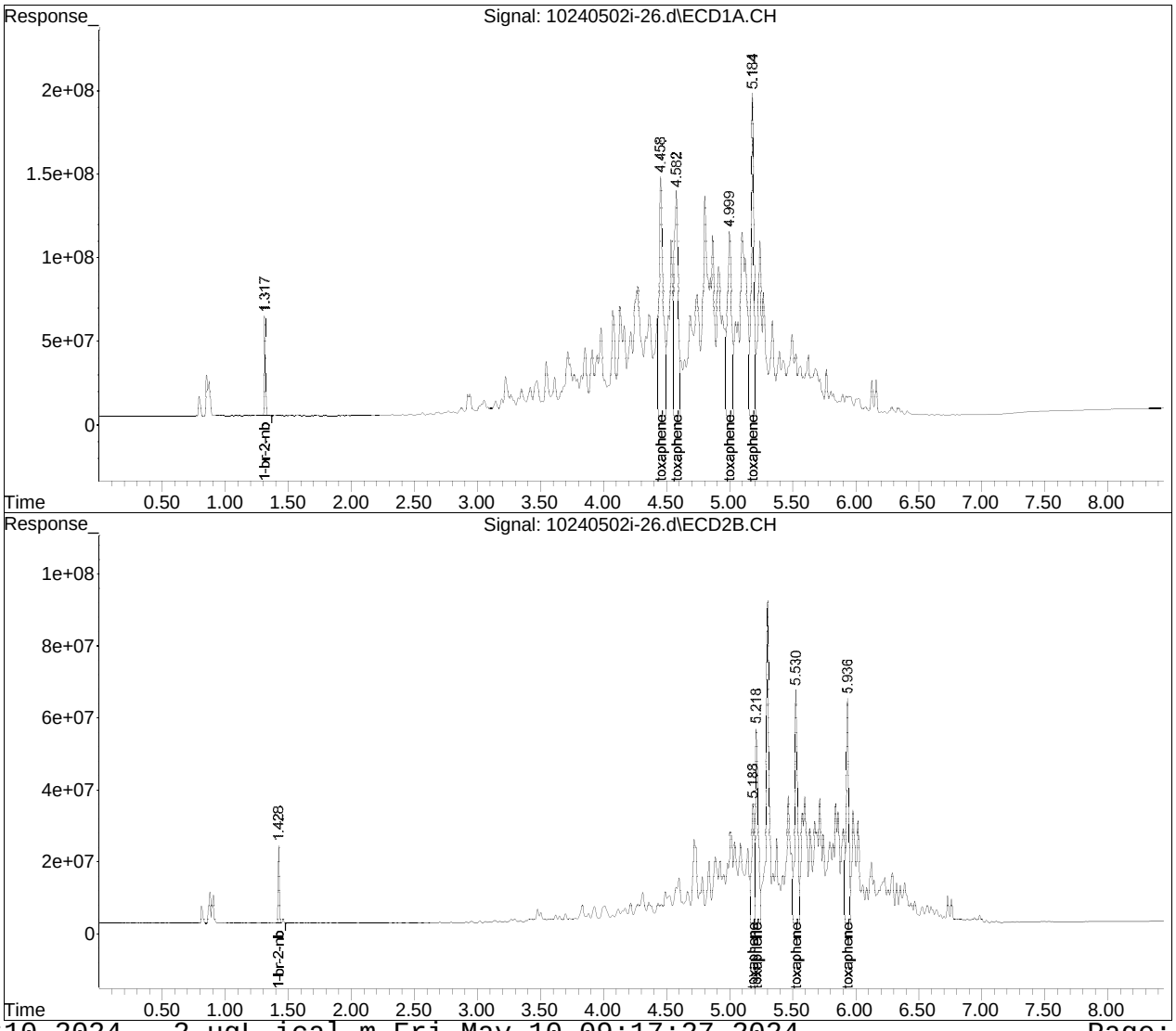
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest10\2024\240502ical\
Data File : 10240502i-26.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 May 2024 8:22 pm
Operator : PEST10:jag
Sample : il9tox,42e,,pp 11510 L5.0
Misc : wg1919460, (Sig #1); ical (Sig #2)
ALS Vial : 26 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 07 18:11:37 2024
Quant Method : I:\PEST\Pest10\2024\240502ical\pest10_2024_05_02_ugL_ical.m
Quant Title : pest
QLast Update : Tue May 07 18:11:19 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

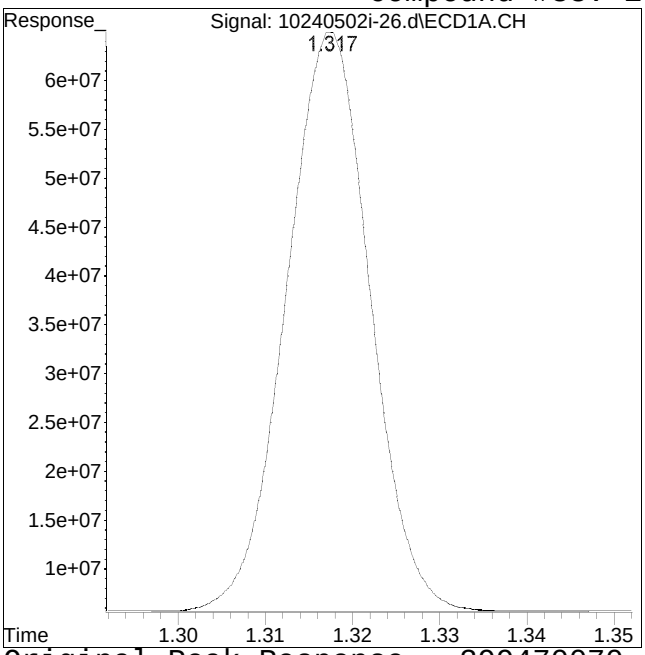
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

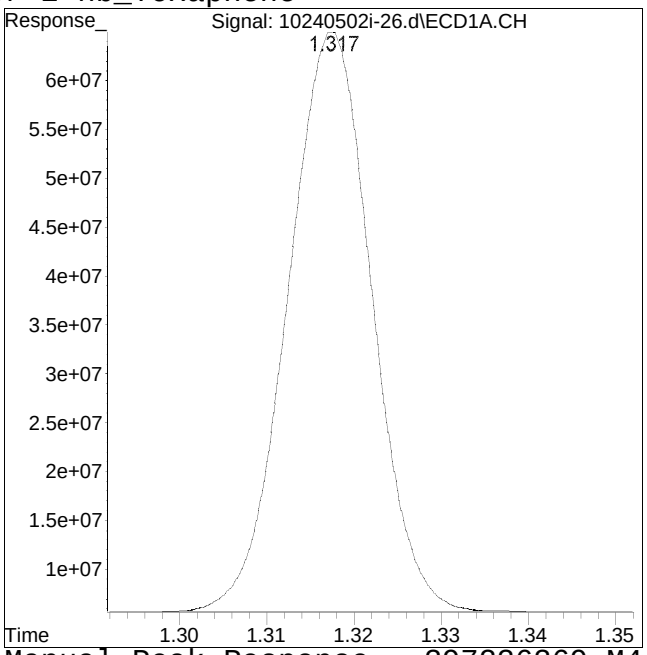


Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-26.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 8:22 pm Instrument : Pest 10
Sample : il9tox,42e,,pp 11510 L5.0 Quant Date : 5/7/2024 6:11 pm

Compound #33: 1-br-2-nb_Toxaphene



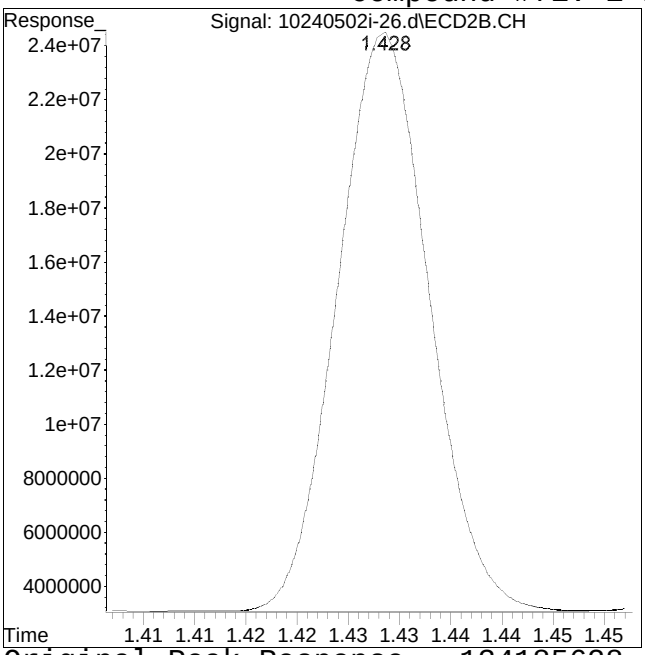


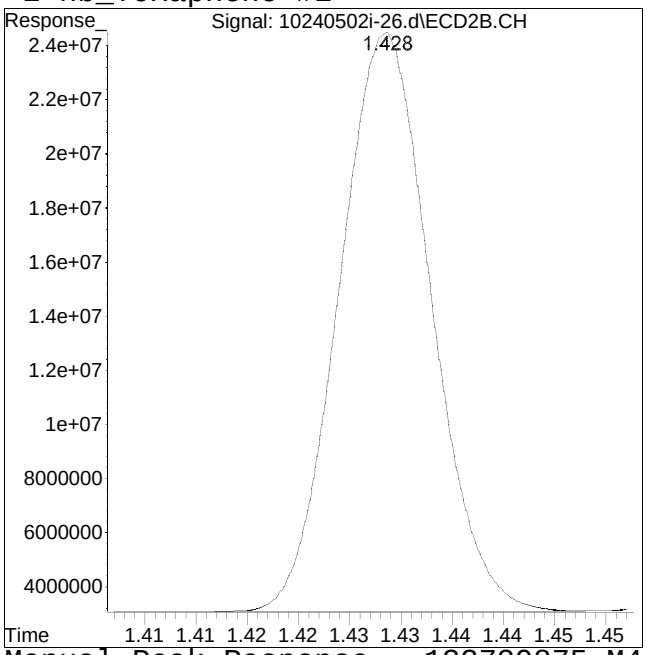
Original Peak Response = 399470070 Manual Peak Response = 397236369 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-26.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 8:22 pm Instrument : Pest 10
Sample : il9tox,42e,,pp 11510 L5.0 Quant Date : 5/7/2024 6:11 pm

Compound #71: 1-br-2-nb_Toxaphene #2





Original Peak Response = 134185628 Manual Peak Response = 133729875 M4
M4 = Poor automated baseline construction.

Initial Calibration Verification

Evaluate Continuing Calibration Report

Data Path : I:\PEST\Pest10\2024\240502ical\
Data File : 10240502i-27.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 02 May 2024   8:33 pm
Operator : PEST10:jag
Sample   : cicvtox,42e,,pp 11541 L2.0ICV
Misc   : wg1919460, (Sig #1); ical (Sig #2)
ALS Vial : 27 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 10 08:39:31 2024
Quant Method : I:\PEST\Pest10\2024\240502ical\pest10_2024_05_02_ugL_ical.m
Quant Title : pest
QLast Update : Fri May 10 08:39:31 2024
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
33	i	1-br-2-nb_Toxaphene	^	1.000	1.000	0.0	96	0.00
34	l2	toxaphene-1		*2000.000	2071.171	-3.6	100	0.00
35	l2	toxaphene-2		*2000.000	2055.228	-2.8	99	0.00
36	l2	toxaphene-4		*2000.000	2219.436	-11.0	107	0.00
37	l2	toxaphene-5		*2000.000	2088.577	-4.4	101	0.00

Signal #2

33	i	1-br-2-nb_Toxaphene	^	1.000	1.000	0.0	100	0.00
34	l2	toxaphene-1		*2000.000	2084.977	-4.2	105	0.00
35	l2	toxaphene-2		*2000.000	2051.890	-2.6	104	0.00
36	l2	toxaphene-4		*2000.000	1915.790	4.2	98	0.00
37	l2	toxaphene-5		*2000.000	2037.630	-1.9	104	0.00

Evaluate Continuing Calibration Report - Not Founds

1	i	1-br-2-nb_Pesticides	^	1.000	1.000	0.0	0	-1.32#
2	s	2,4,5,6-Tetrachloro-m-xylen		1.085	0.000	100.0#	0#	-1.66#
3	t	Hexachlorobenzene		1.160	0.000	100.0#	0#	-1.88#
4	t	alpha-BHC		1.510	0.000	100.0#	0#	-1.98#
5	t	gamma-BHC (lindane)		1.431	0.000	100.0#	0#	-2.18#
6	t	beta-BHC		* 50.000	0.000	100.0#	0	-2.23#
7	t	delta-BHC		1.412	0.000	100.0#	0#	-2.36#
8	t	Heptachlor		1.359	0.000	100.0#	0#	-2.53#
9	t	Aldrin		1.282	0.000	100.0#	0#	-2.77#
10	t	Alachlor		* 50.000	0.000	100.0#	0	-2.89#
11	t	Chlorpyrifos		* 50.000	0.000	100.0#	0	-2.98#
12	t	Heptachlor Epoxide		1.221	0.000	100.0#	0#	-3.32#
13	t	gamma-Chlordane (trans)		1.117	0.000	100.0#	0#	-3.44#

Evaluate Continuing Calibration Report

Data Path : I:\PEST\Pest10\2024\240502ical\
Data File : 10240502i-27.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 02 May 2024   8:33 pm
Operator : PEST10:jag
Sample   : cicvtox,42e,,pp 11541 L2.0ICV
Misc   : wg1919460, (Sig #1); ical (Sig #2)
ALS Vial : 27 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 10 08:39:31 2024
Quant Method : I:\PEST\Pest10\2024\240502ical\pest10_2024_05_02_ugL_ical.m
Quant Title : pest
QLast Update : Fri May 10 08:39:31 2024
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
14	t	alpha-Chlordane (cis)		1.269	0.000	100.0#	0#	-3.57#
15	t	4,4'-DDE		1.202	0.000	100.0#	0#	-3.67#
16	t	Endosulfan I		1.163	0.000	100.0#	0#	-3.71#
17	t	Dieldrin		1.200	0.000	100.0#	0#	-3.97#
18	t	Endrin		1.233	0.000	100.0#	0#	-4.23#
19	t	4,4'-DDD		0.977	0.000	100.0#	0#	-4.34#
20	t	Endosulfan II		1.064	0.000	100.0#	0#	-4.47#
21	t	4,4'-DDT		1.081	0.000	100.0#	0#	-4.63#
22	t	Endrin Aldehyde	*	50.000	0.000	100.0#	0	-4.89#
23	t	Methoxychlor	*	50.000	0.000	100.0#	0	-5.12#
24	t	Mirex	*	50.000	0.000	100.0#	0	-5.17#
25	t	Endosulfan Sulfate		1.055	0.000	100.0#	0#	-5.28#
26	t	Endrin Ketone		1.157	0.000	100.0#	0#	-5.50#
27	s	Decachlorobiphenyl	*	50.000	0.000	100.0#	0	-6.31#
28	i	1-br-2-nb_Chlordane	^	1.000	1.000	0.0	0	-1.32#
29	l1	chlordane-1	*	1000.000	0.000	100.0#	0	-2.46#
30	l1	chlordane-3	*	1000.000	0.000	100.0#	0	-2.53#
31	l1	chlordane-4	*	1000.000	0.000	100.0#	0	-2.88#
32	l1	chlordane-5	*	1000.000	0.000	100.0#	0	-3.44#

Signal #2

1	i	1-br-2-nb_Pesticides	^	1.000	1.000	0.0	0	-1.43#
2	s	2,4,5,6-Tetrachloro-m-xyl		0.940	0.000	100.0#	0#	-1.92#
3	t	Hexachlorobenzene		1.080	0.000	100.0#	0#	-2.25#
4	t	alpha-BHC		1.339	0.000	100.0#	0#	-2.35#
5	t	gamma-BHC (lindane)		1.257	0.000	100.0#	0#	-2.64#
6	t	beta-BHC	*	50.000	0.000	100.0#	0	-2.71#
7	t	delta-BHC		1.262	0.000	100.0#	0#	-2.98#

Evaluate Continuing Calibration Report

Data Path : I:\PEST\Pest10\2024\240502ical\
Data File : 10240502i-27.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 02 May 2024   8:33 pm
Operator : PEST10:jag
Sample   : cicvtox,42e,,pp 11541 L2.0ICV
Misc   : wg1919460, (Sig #1); ical (Sig #2)
ALS Vial : 27 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 10 08:39:31 2024
Quant Method : I:\PEST\Pest10\2024\240502ical\pest10_2024_05_02_ugL_ical.m
Quant Title : pest
QLast Update : Fri May 10 08:39:31 2024
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
8	t	Heptachlor		1.248	0.000	100.0#	0#	-3.05#
9	t	Aldrin		1.137	0.000	100.0#	0#	-3.38#
10	t	Alachlor	*	50.000	0.000	100.0#	0	-3.26#
11	t	Chlorpyrifos	*	50.000	0.000	100.0#	0	-3.62#
12	t	Heptachlor Epoxide		1.137	0.000	100.0#	0#	-4.01#
13	t	gamma-Chlordane (trans)		1.011	0.000	100.0#	0#	-4.23#
14	t	alpha-Chlordane (cis)		1.137	0.000	100.0#	0#	-4.40#
15	t	4,4'-DDE		1.052	0.000	100.0#	0#	-4.59#
16	t	Endosulfan I		1.058	0.000	100.0#	0#	-4.46#
17	t	Dieldrin		1.059	0.000	100.0#	0#	-4.74#
18	t	Endrin		1.086	0.000	100.0#	0#	-5.04#
19	t	4,4'-DDD		0.846	0.000	100.0#	0#	-5.15#
20	t	Endosulfan II		0.951	0.000	100.0#	0#	-5.23#
21	t	4,4'-DDT		0.960	0.000	100.0#	0#	-5.43#
22	t	Endrin Aldehyde	*	50.000	0.000	100.0#	0	-5.52#
23	t	Methoxychlor	*	50.000	0.000	100.0#	0	-5.98#
24	t	Mirex	*	50.000	0.000	100.0#	0	-6.13#
25	t	Endosulfan Sulfate		0.948	0.000	100.0#	0#	-5.75#
26	t	Endrin Ketone		1.033	0.000	100.0#	0#	-6.16#
27	s	Decachlorobiphenyl	*	50.000	0.000	100.0#	0	-7.01#
28	i	1-br-2-nb_Chlordane	^	1.000	1.000	0.0	0	-1.43#
29	l1	chlordane-1	*	1000.000	0.000	100.0#	0	-2.92#
30	l1	chlordane-3	*	1000.000	0.000	100.0#	0	-3.54#
31	l1	chlordane-4	*	1000.000	0.000	100.0#	0	-4.23#
32	l1	chlordane-5	*	1000.000	0.000	100.0#	0	-4.40#

* Evaluation of CC level amount vs concentration.
(#) = Out of Range SPCC's out = 0 CCC's out = 0
(^) = ISTD area calculated using ICAL average

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest10\2024\240502ical\
Data File : 10240502i-27.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 May 2024 8:33 pm
Operator : PEST10:jag
Sample : cicvtox,42e,,pp 11541 L2.0ICV
Misc : wg1919460, (Sig #1); ical (Sig #2)
ALS Vial : 27 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 10 08:39:31 2024
Quant Method : I:\PEST\Pest10\2024\240502ical\pest10_2024_05_02_ugL_ical.m
Quant Title : pest
QLast Update : Fri May 10 08:39:31 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	0.000	0.000	0	0	N.D. d	N.D. d
28) i	1-br-2-nb_Ch	0.000	0.000	0	0	N.D. d	N.D. d
33) i	1-br-2-nb_To	1.317	1.428	364.7E6	132.2E6	25.000M4	25.000M4
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150		Recovery =	0.00%#	0.00%#
27) s	Decachlorobi	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150		Recovery =	0.00%#	0.00%#
	Target Compounds						
3) t	Hexachlorobe	0.000	0.000	0	0	N.D. d	N.D. d
4) t	alpha-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5) t	gamma-BHC (l	0.000	0.000	0	0	N.D. d	N.D. d
6) t	beta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7) t	delta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
8) t	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
9) t	Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
10) t	Alachlor	0.000	0.000	0	0	N.D. d	N.D. d
11) t	Chlorpyrifos	0.000	0.000	0	0	N.D. d	N.D. d
12) t	Heptachlor E	0.000	0.000	0	0	N.D. d	N.D. d
13) t	gamma-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
14) t	alpha-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
15) t	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
16) t	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
17) t	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
18) t	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
19) t	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
20) t	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
21) t	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
22) t	Endrin Aldeh	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest10\2024\240502ical\
Data File : 10240502i-27.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 May 2024 8:33 pm
Operator : PEST10:jag
Sample : cicvtox,42e,,pp 11541 L2.0ICV
Misc : wg1919460, (Sig #1); ical (Sig #2)
ALS Vial : 27 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 10 08:39:31 2024
Quant Method : I:\PEST\Pest10\2024\240502ical\pest10_2024_05_02_ugL_ical.m
Quant Title : pest
QLast Update : Fri May 10 08:39:31 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
23) t	Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d
24) t	Mirex	0.000	0.000	0	0	N.D. d	N.D. d
25) t	Endosulfan S	0.000	0.000	0	0	N.D. d	N.D. d
26) t	Endrin Keton	0.000	0.000	0	0	N.D. d	N.D. d
29) l1	chlordane-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l1	chlordane-3	0.000	0.000	0	0	N.D. d	N.D. d
31) l1	chlordane-4	0.000	0.000	0	0	N.D. d	N.D. d
32) l1	chlordane-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	chlordane-1			0	0	N.D.	N.D.
Average	chlordane-1					0.000	0.000
34) l2	toxaphene-1	4.458	5.189	1187.4E6	222.8E6	2071.171	2084.977
35) l2	toxaphene-2	4.583	5.218	1110.3E6	328.1E6	2055.228	2051.890
36) l2	toxaphene-4	4.999	5.531	1041.7E6	367.1E6	2219.436	1915.790
37) l2	toxaphene-5	5.183	5.937	1147.4E6	357.4E6	2088.577	2037.630
Sum	toxaphene-1			4486.9E6	1275.4E6	8434.411	8090.287
Average	toxaphene-1					2108.603	2022.572

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	toxaphene-1			4486.9E6	1275.4E6	8434.411	8090.287
Average	toxaphene-1					2108.603	2022.572

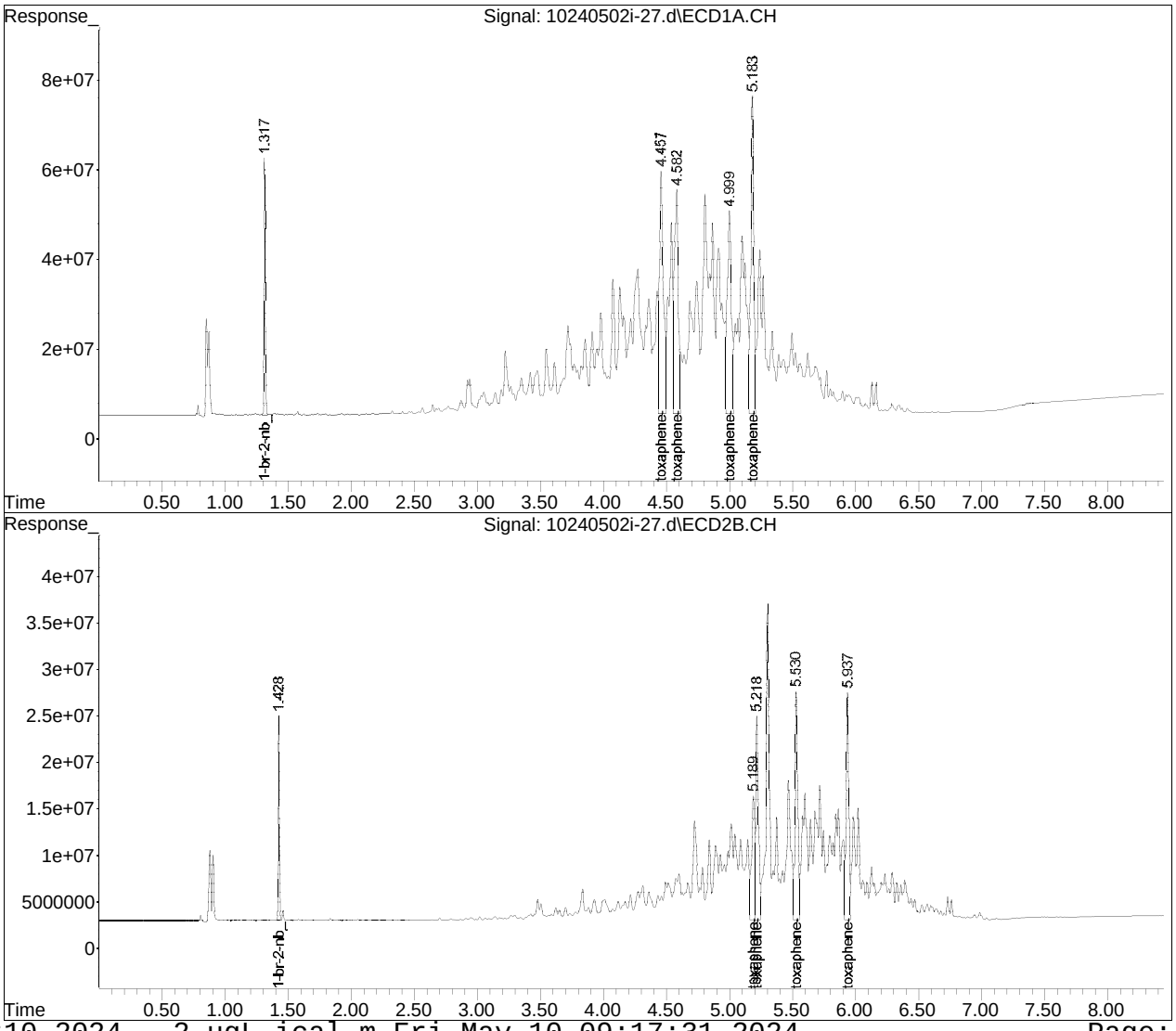
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest10\2024\240502ical\
Data File : 10240502i-27.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 May 2024 8:33 pm
Operator : PEST10:jag
Sample : cicvtox,42e,,pp 11541 L2.0ICV
Misc : wg1919460, (Sig #1); ical (Sig #2)
ALS Vial : 27 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 10 08:39:31 2024
Quant Method : I:\PEST\Pest10\2024\240502ical\pest10_2024_05_02_ugL_ical.m
Quant Title : pest
QLast Update : Fri May 10 08:39:31 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

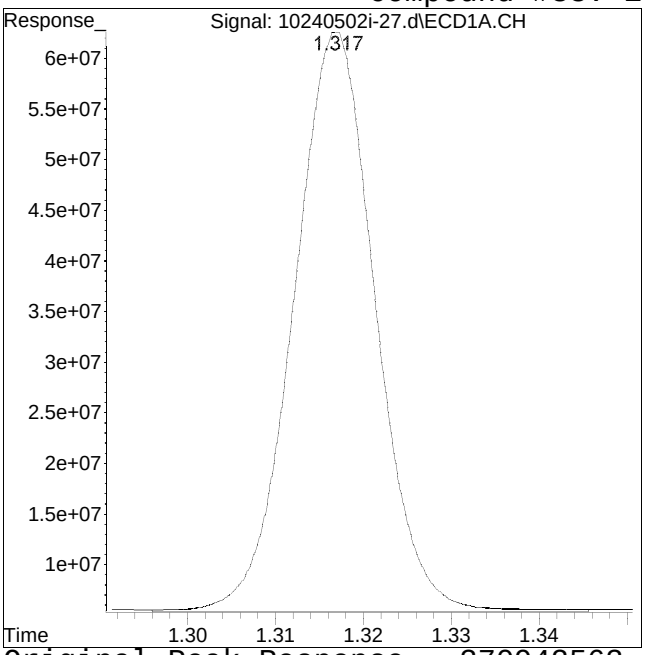
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

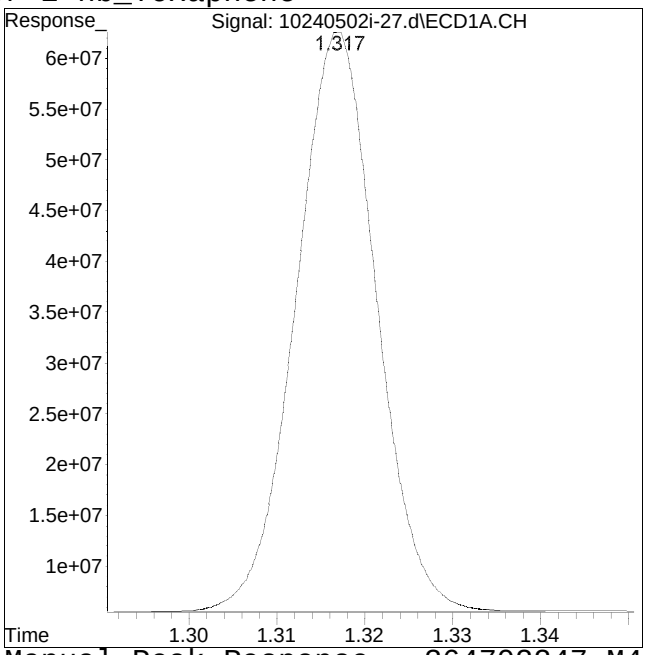


Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-27.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 8:33 pm Instrument : Pest 10
Sample : cicvtox,42e,,pp 11541 L2.0Quant Date : 5/10/2024 8:39 am

Compound #33: 1-br-2-nb_Toxaphene



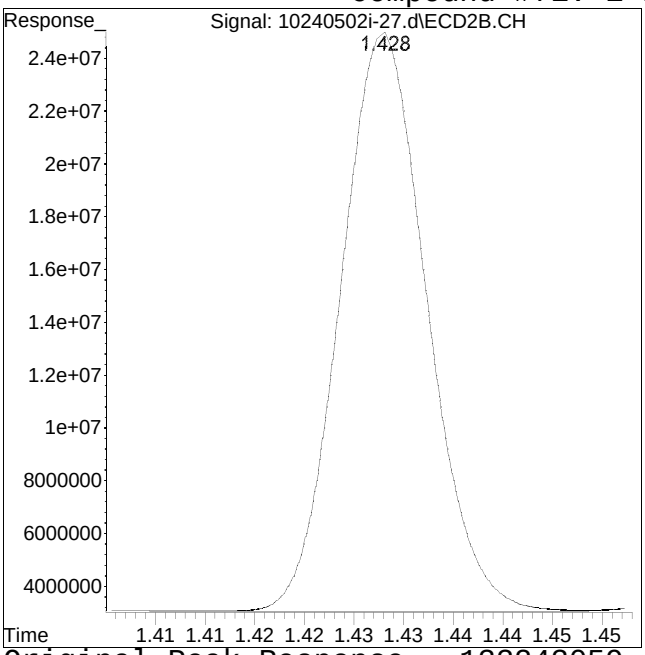


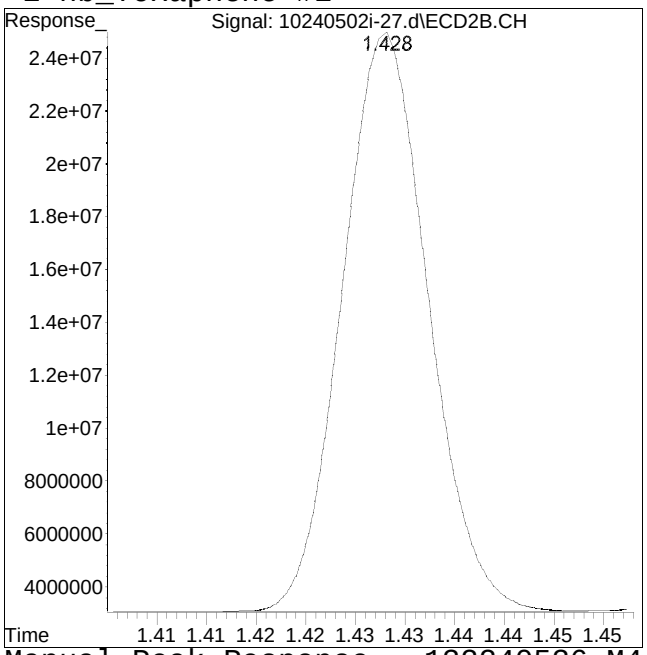
Original Peak Response = 370942563 Manual Peak Response = 364702247 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240502QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240502i-27.d Operator : PEST10:jag
Date Inj'd : 5/2/2024 8:33 pm Instrument : Pest 10
Sample : cicvtox,42e,,pp 11541 L2.0Quant Date : 5/10/2024 8:39 am

Compound #71: 1-br-2-nb_Toxaphene #2





Original Peak Response = 133243059 Manual Peak Response = 132240536 M4
M4 = Poor automated baseline construction.

Evaluate Relative Error Report Pest 10

Method Path : I:\PEST\Pest10\2024\240502ical\
Method File : pest10_2024_05_02_ugL_ical.m
Title : pest
Last Update : Fri May 10 08:39:10 2024

	COMPOUND	CalFit	Units	TrueMid	MidConc	%RE	TrueLow	LowConc	%RE
6	T beta-BHC	L	ug/l	50.0	49.775	-0.5	1.00	0.822	-17.8
10	T Alachlor	L	ug/l	50.0	56.327	12.7	3.00	2.412	-19.6
11	T Chlorpyrifos	L	ug/l	50.0	57.145	14.3	3.00	2.225	-25.8
22	T Endrin Aldehyde	L	ug/l	50.0	49.162	-1.7	1.00	1.150	15.0
23	T Methoxychlor	L	ug/l	50.0	54.892	9.8	2.00	1.421	-28.9
24	T Mirex	L	ug/l	50.0	50.935	1.9	2.00	1.639	-18.1
27	S Decachlorobiphenyl	L	ug/l	50.0	51.302	2.6	2.00	1.711	-14.4
29	L1 chlordane-1	L	ug/l	1000.0	1019.226	1.9	10.00	8.770	-12.3
30	L1 chlordane-3	L	ug/l	1000.0	1022.322	2.2	10.00	9.031	-9.7
31	L1 chlordane-4	L	ug/l	1000.0	1061.075	6.1	10.00	7.407	-25.9
32	L1 chlordane-5	L	ug/l	1000.0	1021.746	2.2	10.00	9.602	-4.0
34	L2 toxaphene-1	L	ug/l	2000.0	1977.195	-1.1	20.00	21.175	5.9
35	L2 toxaphene-2	L	ug/l	2000.0	1977.437	-1.1	20.00	19.766	-1.2
36	L2 toxaphene-4	L	ug/l	2000.0	1976.303	-1.2	20.00	22.215	11.1
37	L2 toxaphene-5	L	ug/l	2000.0	1971.049	-1.4	20.00	21.804	9.0
44	T beta-BHC #2	L	ug/l	50.0	49.819	-0.4	1.00	0.897	-10.3
48	T Alachlor #2	L	ug/l	50.0	53.823	7.6	3.00	2.722	-9.3
49	T Chlorpyrifos #2	L	ug/l	50.0	54.589	9.2	3.00	2.523	-15.9
60	T Endrin Aldehyde #2	L	ug/l	50.0	48.552	-2.9	1.00	1.108	10.8
61	T Methoxychlor #2	L	ug/l	50.0	52.156	4.3	2.00	1.776	-11.2
62	T Mirex #2	L	ug/l	50.0	52.305	4.6	2.00	1.703	-14.8
65	S Decachlorobiphenyl #2	L	ug/l	50.0	51.990	4.0	2.00	1.739	-13.0
67	L1 chlordane-1 #2	L	ug/l	1000.0	1032.739	3.3	10.00	8.743	-12.6
68	L1 chlordane-3 #2	L	ug/l	1000.0	1030.781	3.1	10.00	7.004	-30.0
69	L1 chlordane-4 #2	L	ug/l	1000.0	1023.146	2.3	10.00	9.609	-3.9
70	L1 chlordane-5 #2	L	ug/l	1000.0	1021.382	2.1	10.00	9.233	-7.7
72	L2 toxaphene-1 #2	L	ug/l	2000.0	1991.755	-0.4	20.00	19.086	-4.6
73	L2 toxaphene-2 #2	L	ug/l	2000.0	1969.860	-1.5	20.00	20.687	3.4
74	L2 toxaphene-4 #2	L	ug/l	2000.0	1960.985	-2.0	20.00	20.428	2.1
75	L2 toxaphene-5 #2	L	ug/l	2000.0	1966.690	-1.7	20.00	20.919	4.6

Calibration Correlation Report

	COMPOUND	CalFit	CoefOfDet	QuadTerm	LinTerm	Constant
6	T beta-BHC	Linear	0.999568	0.000000	0.565778	0.0112877
10	T Alachlor	Linear	0.994017	0.000000	0.154368	0.0124621
11	T Chlorpyrifos	Linear	0.996067	0.000000	0.465357	0.0482604
22	T Endrin Aldehyde	Linear	0.999859	0.000000	0.807238	0.00726759
23	T Methoxychlor	Linear	0.998014	0.000000	0.486918	0.0271904
24	T Mirex	Linear	0.999581	0.000000	0.799161	0.0349066
27	S Decachlorobiphenyl	Linear	0.999480	0.000000	0.792624	0.0306797
29	L1 chlordane-1	Linear	0.999539	0.000000	0.0357685	0.00671473
30	L1 chlordane-3	Linear	0.999622	0.000000	0.0721112	0.0112298
31	L1 chlordane-4	Linear	0.995003	0.000000	0.0407934	0.0129288
32	L1 chlordane-5	Linear	0.999751	0.000000	0.156335	0.0223003
34	L2 toxaphene-1	Linear	0.999871	0.000000	0.0389611	0.0281078
35	L2 toxaphene-2	Linear	0.999926	0.000000	0.0369763	0.0046102
36	L2 toxaphene-4	Linear	0.999762	0.000000	0.0319657	0.0184827
37	L2 toxaphene-5	Linear	0.999803	0.000000	0.037424	0.0196503
44	T beta-BHC #2	Linear	0.999935	0.000000	0.547051	0.00772002
48	T Alachlor #2	Linear	0.997295	0.000000	0.158651	0.0133878
49	T Chlorpyrifos #2	Linear	0.997712	0.000000	0.504611	0.0366705
60	T Endrin Aldehyde #2	Linear	0.999661	0.000000	0.773149	-0.00435029
61	T Methoxychlor #2	Linear	0.999503	0.000000	0.474554	0.0139249
62	T Mirex #2	Linear	0.999451	0.000000	0.714545	0.0321042
65	S Decachlorobiphenyl #2	Linear	0.998873	0.000000	0.708697	0.0272536
67	L1 chlordane-1 #2	Linear	0.999156	0.000000	0.0319783	0.00644996
68	L1 chlordane-3 #2	Linear	0.996618	0.000000	0.0371132	0.0120836

69	L1 chlordane-4 #2	Linear	0.999516	0.000000	0.131142	0.0141895
70	L1 chlordane-5 #2	Linear	0.999396	0.000000	0.102712	0.0152716
72	L2 toxaphene-1 #2	Linear	0.999830	0.000000	0.0201269	0.00650294
73	L2 toxaphene-2 #2	Linear	0.999846	0.000000	0.0301138	0.00911802
74	L2 toxaphene-4 #2	Linear	0.999648	0.000000	0.0361286	0.00723072
75	L2 toxaphene-5 #2	Linear	0.999756	0.000000	0.0330505	0.0088149

Continuing Calibration

Calibration Verification Summary
Form 7
Pesticides

Client	: Alpha Geoscience		**Lab Number**	: L2434679	
Project Name	: RANCO MINE		**Project Number**	: 12123	
Instrument ID	: PEST10		**Calibration Date**	: 06/24/24 15:57	
Lab File ID	: 10240624b-03		**Init. Calib. Date(s)**	: 05/02/24	05/02/24
Sample No	: WG1938709-1		**Init. Calib. Times**	: 16:08	20:22
Channel	: A				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
1-br-2-nb_Pesticides	1	1	-	0	20	136	0
2,4,5,6-Tetrachloro-m-xylen	1.085	1.059	-	2.4	20	148	0
Hexachlorobenzene	1.16	1.107	-	4.6	20	145	0
alpha-BHC	1.51	1.636	-	-8.3	20	151	0
gamma-BHC (lindane)	1.431	1.467	-	-2.5	20	149	0
beta-BHC	50	52.257	-	-4.5	20	145	0
delta-BHC	1.412	1.438	-	-1.8	20	144	0
Heptachlor	1.359	1.501	-	-10.4	20	160	0
Aldrin	1.282	1.414	-	-10.3	20	159	0
Alachlor	50	59.699	-	-19.4	20	146	0
Chlorpyrifos	50	66.1	-	-32.2*	20	159	0
Heptachlor Epoxide	1.221	1.296	-	-6.1	20	157	0
gamma-Chlordane (trans)	1.117	1.355	-	-21.3*	20	182	0
alpha-Chlordane (cis)	1.269	1.322	-	-4.2	20	158	0
4,4'-DDE	1.202	1.32	-	-9.8	20	157	0
Endosulfan I	1.163	1.219	-	-4.8	20	155	0
Dieldrin	1.2	1.389	-	-15.8	20	168	0
Endrin	1.233	1.35	-	-9.5	20	159	0
4,4'-DDD	0.977	1.136	-	-16.3	20	169	0
Endosulfan II	1.064	1.197	-	-12.5	20	162	0
4,4'-DDT	1.081	1.216	-	-12.5	20	165	0
Endrin Aldehyde	50	52.421	-	-4.8	20	147	0
Methoxychlor	50	66.121	-	-32.2*	20	166	0
Mirex	50	58.684	-	-17.4	20	159	0
Endosulfan Sulfate	1.055	1.099	-	-4.2	20	157	0
Endrin Ketone	1.157	1.273	-	-10	20	162	0
Decachlorobiphenyl	50	35.602	-	28.8*	20	97	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Pesticides

Client	: Alpha Geoscience		**Lab Number**	: L2434679	
Project Name	: RANCO MINE		**Project Number**	: 12123	
Instrument ID	: PEST10		**Calibration Date**	: 06/24/24 15:57	
Lab File ID	: 10240624b-03		**Init. Calib. Date(s)**	: 05/02/24	05/02/24
Sample No	: WG1938709-1		**Init. Calib. Times**	: 16:08	20:22
Channel	: B				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
1-br-2-nb_Pesticides	1	1	-	0	20	106	0
2,4,5,6-Tetrachloro-m-xyl	0.94	1.019	-	-8.4	20	121	0
Hexachlorobenzene	1.08	1.09	-	-0.9	20	118	0
alpha-BHC	1.339	1.513	-	-13	20	119	0
gamma-BHC (lindane)	1.257	1.368	-	-8.8	20	118	0
beta-BHC	50	53.125	-	-6.3	20	117	0
delta-BHC	1.262	1.347	-	-6.7	20	114	0
Heptachlor	1.248	1.362	-	-9.1	20	121	0
Aldrin	1.137	1.272	-	-11.9	20	123	0
Alachlor	50	56.55	-	-13.1	20	115	0
Chlorpyrifos	50	59.267	-	-18.5	20	118	0
Heptachlor Epoxide	1.137	1.186	-	-4.3	20	119	0
gamma-Chlordane (trans)	1.011	1.213	-	-20	20	137	0
alpha-Chlordane (cis)	1.137	1.196	-	-5.2	20	120	0
4,4'-DDE	1.052	1.174	-	-11.6	20	121	0
Endosulfan I	1.058	1.116	-	-5.5	20	119	0
Dieldrin	1.059	1.255	-	-18.5	20	131	0
Endrin	1.086	1.199	-	-10.4	20	121	0
4,4'-DDD	0.846	0.996	-	-17.7	20	130	0
Endosulfan II	0.951	1.074	-	-12.9	20	124	0
4,4'-DDT	0.96	1.068	-	-11.3	20	123	0
Endrin Aldehyde	50	49.706	-	0.6	20	112	0
Methoxychlor	50	60.376	-	-20.8*	20	126	0
Mirex	50	58.627	-	-17.3	20	122	0
Endosulfan Sulfate	0.948	1.004	-	-5.9	20	122	0
Endrin Ketone	1.033	1.186	-	-14.8	20	129	0
Decachlorobiphenyl	50	31.753	-	36.5*	20	68	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Pesticides

Client	: Alpha Geoscience		**Lab Number**	: L2434679	
Project Name	: RANCO MINE		**Project Number**	: 12123	
Instrument ID	: PEST10		**Calibration Date**	: 06/24/24 16:08	
Lab File ID	: 10240624b-04		**Init. Calib. Date(s)**	: 05/02/24	05/02/24
Sample No	: WG1938709-2		**Init. Calib. Times**	: 16:08	20:22
Channel	: A				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
1-br-2-nb_Chlordane	1	1	-	0	20	131	0
chlordane-1	1000	1165.937	-	-16.6	20	150	0
chlordane-3	1000	916.957	-	8.3	20	117	0
chlordane-4	1000	1176.587	-	-17.7	20	145	0
chlordane-5	1000	1195.296	-	-19.5	20	153	0

* Value outside of QC limits.

Calibration Verification Summary
Form 7
Pesticides

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Instrument ID	: PEST10	**Calibration Date**	: 06/24/24 16:08
Lab File ID	: 10240624b-04	**Init. Calib. Date(s)**	: 05/02/24 05/02/24
Sample No	: WG1938709-2	**Init. Calib. Times**	: 16:08 20:22
Channel	: B		

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
1-br-2-nb_Chlordane	1	1	-	0	20	105	0
chlordane-1	1000	1099.804	-	-10	20	111	0
chlordane-3	1000	1076.051	-	-7.6	20	109	0
chlordane-4	1000	1084.456	-	-8.4	20	110	0
chlordane-5	1000	1054.529	-	-5.5	20	107	0

* Value outside of QC limits.

Calibration Verification Summary
Form 7
Pesticides

Client	: Alpha Geoscience		**Lab Number**	: L2434679	
Project Name	: RANCO MINE		**Project Number**	: 12123	
Instrument ID	: PEST10		**Calibration Date**	: 06/24/24 16:19	
Lab File ID	: 10240624b-05		**Init. Calib. Date(s)**	: 05/02/24	05/02/24
Sample No	: WG1938709-3		**Init. Calib. Times**	: 16:08	20:22
Channel	: A				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
1-br-2-nb_Toxaphene	1	1	-	0	20	137	0
toxaphene-1	2000	2417.599	-	-20.9*	20	166	0
toxaphene-2	2000	2335.273	-	-16.8	20	161	0
toxaphene-4	2000	2596.588	-	-29.8*	20	178	0
toxaphene-5	2000	2424.775	-	-21.2*	20	167	0

* Value outside of QC limits.

Calibration Verification Summary
Form 7
Pesticides

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Instrument ID	: PEST10	**Calibration Date**	: 06/24/24 16:19
Lab File ID	: 10240624b-05	**Init. Calib. Date(s)**	: 05/02/24 05/02/24
Sample No	: WG1938709-3	**Init. Calib. Times**	: 16:08 20:22
Channel	: B		

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
1-br-2-nb_Toxaphene	1	1	-	0	20	112	0
toxaphene-1	2000	2237.805	-	-11.9	20	126	0
toxaphene-2	2000	2284.916	-	-14.2	20	130	0
toxaphene-4	2000	2140.119	-	-7	20	122	0
toxaphene-5	2000	2276.082	-	-13.8	20	130	0

* Value outside of QC limits.

Calibration Verification Summary
Form 7
Pesticides

Client	: Alpha Geoscience		**Lab Number**	: L2434679	
Project Name	: RANCO MINE		**Project Number**	: 12123	
Instrument ID	: PEST10		**Calibration Date**	: 06/26/24 17:14	
Lab File ID	: 10240626b-03		**Init. Calib. Date(s)**	: 05/02/24	05/02/24
Sample No	: WG1939871-1		**Init. Calib. Times**	: 16:08	20:22
Channel	: A				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
1-br-2-nb_Pesticides	1	1	-	0	20	146	0
2,4,5,6-Tetrachloro-m-xylen	1.085	1.175	-	-8.3	20	176	0
Hexachlorobenzene	1.16	1.226	-	-5.7	20	172	0
alpha-BHC	1.51	1.822	-	-20.7*	20	181	0
gamma-BHC (lindane)	1.431	1.629	-	-13.8	20	177	0
beta-BHC	50	57.367	-	-14.7	20	170	0
delta-BHC	1.412	1.593	-	-12.8	20	171	0
Heptachlor	1.359	1.645	-	-21*	20	188	0
Aldrin	1.282	1.545	-	-20.5*	20	186	0
Alachlor	50	62.919	-	-25.8*	20	165	0
Chlorpyrifos	50	71.058	-	-42.1*	20	182	0
Heptachlor Epoxide	1.221	1.416	-	-16	20	184	0
gamma-Chlordane (trans)	1.117	1.482	-	-32.7*	20	214	0
alpha-Chlordane (cis)	1.269	1.438	-	-13.3	20	184	0
4,4'-DDE	1.202	1.442	-	-20	20	184	0
Endosulfan I	1.163	1.329	-	-14.3	20	181	0
Dieldrin	1.2	1.53	-	-27.5*	20	198	0
Endrin	1.233	1.467	-	-19	20	185	0
4,4'-DDD	0.977	1.244	-	-27.3*	20	198	0
Endosulfan II	1.064	1.312	-	-23.3*	20	190	0
4,4'-DDT	1.081	1.204	-	-11.4	20	175	0
Endrin Aldehyde	50	58.687	-	-17.4	20	177	0
Methoxychlor	50	72.492	-	-45*	20	194	0
Mirex	50	65.187	-	-30.4*	20	189	0
Endosulfan Sulfate	1.055	1.218	-	-15.5	20	186	0
Endrin Ketone	1.157	1.384	-	-19.6	20	189	0
Decachlorobiphenyl	50	23.422	-	53.2*	20	69	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Pesticides

Client	: Alpha Geoscience		**Lab Number**	: L2434679	
Project Name	: RANCO MINE		**Project Number**	: 12123	
Instrument ID	: PEST10		**Calibration Date**	: 06/26/24 17:14	
Lab File ID	: 10240626b-03		**Init. Calib. Date(s)**	: 05/02/24	05/02/24
Sample No	: WG1939871-1		**Init. Calib. Times**	: 16:08	20:22
Channel	: B				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
1-br-2-nb_Pesticides	1	1	-	0	20	105	0
2,4,5,6-Tetrachloro-m-xyl	0.94	1.049	-	-11.6	20	123	0
Hexachlorobenzene	1.08	1.129	-	-4.5	20	121	0
alpha-BHC	1.339	1.573	-	-17.5	20	123	0
gamma-BHC (lindane)	1.257	1.427	-	-13.5	20	122	0
beta-BHC	50	55.266	-	-10.5	20	120	0
delta-BHC	1.262	1.377	-	-9.1	20	116	0
Heptachlor	1.248	1.376	-	-10.3	20	121	0
Aldrin	1.137	1.275	-	-12.1	20	122	0
Alachlor	50	57.663	-	-15.3	20	116	0
Chlorpyrifos	50	60.544	-	-21.1*	20	120	0
Heptachlor Epoxide	1.137	1.192	-	-4.8	20	118	0
gamma-Chlordane (trans)	1.011	1.212	-	-19.9	20	136	0
alpha-Chlordane (cis)	1.137	1.196	-	-5.2	20	119	0
4,4'-DDE	1.052	1.166	-	-10.8	20	119	0
Endosulfan I	1.058	1.114	-	-5.3	20	118	0
Dieldrin	1.059	1.228	-	-16	20	127	0
Endrin	1.086	1.125	-	-3.6	20	112	0
4,4'-DDD	0.846	0.929	-	-9.8	20	120	0
Endosulfan II	0.951	0.995	-	-4.6	20	113	0
4,4'-DDT	0.96	0.965	-	-0.5	20	110	0
Endrin Aldehyde	50	44.32	-	11.4	20	99	0
Methoxychlor	50	48.79	-	2.4	20	101	0
Mirex	50	44.098	-	11.8	20	92	0
Endosulfan Sulfate	0.948	0.863	-	9	20	104	0
Endrin Ketone	1.033	0.909	-	12	20	98	0
Decachlorobiphenyl	50	18.279	-	63.4*	20	39	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Pesticides

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Instrument ID	: PEST10	**Calibration Date**	: 06/26/24 17:25
Lab File ID	: 10240626b-04	**Init. Calib. Date(s)**	: 05/02/24 05/02/24
Sample No	: WG1939871-2	**Init. Calib. Times**	: 16:08 20:22
Channel	: A		

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
1-br-2-nb_Chlordane	1	1	-	0	20	129	0
chlordane-1	1000	1316.174	-	-31.6*	20	166	0
chlordane-3	1000	1048.338	-	-4.8	20	132	0
chlordane-4	1000	1343.754	-	-34.4*	20	163	0
chlordane-5	1000	1421.83	-	-42.2*	20	179	0

* Value outside of QC limits.

Calibration Verification Summary
Form 7
Pesticides

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Instrument ID	: PEST10	**Calibration Date**	: 06/26/24 17:25
Lab File ID	: 10240626b-04	**Init. Calib. Date(s)**	: 05/02/24 05/02/24
Sample No	: WG1939871-2	**Init. Calib. Times**	: 16:08 20:22
Channel	: B		

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
1-br-2-nb_Chlordane	1	1	-	0	20	99	0
chlordane-1	1000	1216.199	-	-21.6*	20	115	0
chlordane-3	1000	1201.251	-	-20.1*	20	114	0
chlordane-4	1000	1175.325	-	-17.5	20	113	0
chlordane-5	1000	1140.482	-	-14	20	109	0

* Value outside of QC limits.

Calibration Verification Summary
Form 7
Pesticides

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Instrument ID	: PEST10	**Calibration Date**	: 06/26/24 17:36
Lab File ID	: 10240626b-05	**Init. Calib. Date(s)**	: 05/02/24 05/02/24
Sample No	: WG1939871-3	**Init. Calib. Times**	: 16:08 20:22
Channel	: A		

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
1-br-2-nb_Toxaphene	1	1	-	0	20	159	0
toxaphene-1	2000	2429.68	-	-21.5*	20	195	0
toxaphene-2	2000	2382.288	-	-19.1	20	191	0
toxaphene-4	2000	2594.675	-	-29.7*	20	208	0
toxaphene-5	2000	2426.97	-	-21.3*	20	195	0

* Value outside of QC limits.

Calibration Verification Summary
Form 7
Pesticides

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Instrument ID	: PEST10	**Calibration Date**	: 06/26/24 17:36
Lab File ID	: 10240626b-05	**Init. Calib. Date(s)**	: 05/02/24 05/02/24
Sample No	: WG1939871-3	**Init. Calib. Times**	: 16:08 20:22
Channel	: B		

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
1-br-2-nb_Toxaphene	1	1	-	0	20	117	0
toxaphene-1	2000	2088.571	-	-4.4	20	123	0
toxaphene-2	2000	2100.59	-	-5	20	125	0
toxaphene-4	2000	1844.121	-	7.8	20	110	0
toxaphene-5	2000	1796.167	-	10.2	20	107	0

* Value outside of QC limits.

Evaluate Continuing Calibration Report

Data Path : I:\PEST\Pest10\2024\240624B\
Data File : 10240624b-03.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 24 Jun 2024   3:57 pm
Operator : PEST10:mmg
Sample   : wg1938709-1,42,,pest11595 (Sig #1); pest11595 (Sig #2)
Misc   : wg1938709,,ical21109
ALS Vial : 3 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 24 18:26:24 2024
Quant Method : I:\PEST\Pest10\2024\240624B\pest10_2024_05_02_ugL_ical21109.m
Quant Title : pest
QLast Update : Mon Jun 24 18:26:17 2024
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
1	i	1-br-2-nb_Pesticides	^	1.000	1.000	0.0	136	0.00
2	s	2,4,5,6-Tetrachloro-m-xylen		1.085	1.059	2.4	148	0.00
3	t	Hexachlorobenzene		1.160	1.107	4.6	145	0.00
4	t	alpha-BHC		1.510	1.636	-8.3	151#	0.00
5	t	gamma-BHC (lindane)		1.431	1.467	-2.5	149	0.00
6	t	beta-BHC	*	50.000	52.257	-4.5	145	0.00
7	t	delta-BHC		1.412	1.438	-1.8	144	0.00
8	t	Heptachlor		1.359	1.501	-10.4	160#	0.00
9	t	Aldrin		1.282	1.414	-10.3	159#	0.00
10	t	Alachlor	*	50.000	59.699	-19.4	146	0.00
11	t	Chlorpyrifos	*	50.000	66.100	-32.2#	159	0.00
12	t	Heptachlor Epoxide		1.221	1.296	-6.1	157#	0.00
13	t	gamma-Chlordane (trans)		1.117	1.355	-21.3#	182#	0.00
14	t	alpha-Chlordane (cis)		1.269	1.322	-4.2	158#	0.00
15	t	4,4'-DDE		1.202	1.320	-9.8	157#	0.00
16	t	Endosulfan I		1.163	1.219	-4.8	155#	0.00
17	t	Dieldrin		1.200	1.389	-15.8	168#	0.00
18	t	Endrin		1.233	1.350	-9.5	159#	0.00
19	t	4,4'-DDD		0.977	1.136	-16.3	169#	0.00
20	t	Endosulfan II		1.064	1.197	-12.5	162#	0.00
21	t	4,4'-DDT		1.081	1.216	-12.5	165#	0.00
22	t	Endrin Aldehyde	*	50.000	52.421	-4.8	147	0.00
23	t	Methoxychlor	*	50.000	66.121	-32.2#	166	0.00
24	t	Mirex	*	50.000	58.684	-17.4	159	0.00
25	t	Endosulfan Sulfate		1.055	1.099	-4.2	157#	0.00
26	t	Endrin Ketone		1.157	1.273	-10.0	162#	0.00
27	s	Decachlorobiphenyl	*	50.000	35.602	28.8#	97	0.00

Signal #2

Evaluate Continuing Calibration Report

Data Path : I:\PEST\Pest10\2024\240624B\
Data File : 10240624b-03.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 24 Jun 2024   3:57 pm
Operator : PEST10:mmg
Sample   : wg1938709-1,42,,pest11595 (Sig #1); pest11595 (Sig #2)
Misc   : wg1938709,,ical21109
ALS Vial : 3 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 24 18:26:24 2024
Quant Method : I:\PEST\Pest10\2024\240624B\pest10_2024_05_02_ugL_ical21109.m
Quant Title : pest
QLast Update : Mon Jun 24 18:26:17 2024
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
1	i	1-br-2-nb_Pesticides	^	1.000	1.000	0.0	106	0.00
2	s	2,4,5,6-Tetrachloro-m-xyl		0.940	1.019	-8.4	121	0.00
3	t	Hexachlorobenzene		1.080	1.090	-0.9	118	0.00
4	t	alpha-BHC		1.339	1.513	-13.0	119	0.00
5	t	gamma-BHC (lindane)		1.257	1.368	-8.8	118	0.00
6	t	beta-BHC	*	50.000	53.125	-6.3	117	0.00
7	t	delta-BHC		1.262	1.347	-6.7	114	0.00
8	t	Heptachlor		1.248	1.362	-9.1	121	0.00
9	t	Aldrin		1.137	1.272	-11.9	123	0.00
10	t	Alachlor	*	50.000	56.550	-13.1	115	0.00
11	t	Chlorpyrifos	*	50.000	59.267	-18.5	118	0.00
12	t	Heptachlor Epoxide		1.137	1.186	-4.3	119	0.00
13	t	gamma-Chlordane (trans)		1.011	1.213	-20.0	137	0.00
14	t	alpha-Chlordane (cis)		1.137	1.196	-5.2	120	0.00
15	t	4,4'-DDE		1.052	1.174	-11.6	121	0.00
16	t	Endosulfan I		1.058	1.116	-5.5	119	0.00
17	t	Dieldrin		1.059	1.255	-18.5	131	0.00
18	t	Endrin		1.086	1.199	-10.4	121	0.00
19	t	4,4'-DDD		0.846	0.996	-17.7	130	0.00
20	t	Endosulfan II		0.951	1.074	-12.9	124	0.00
21	t	4,4'-DDT		0.960	1.068	-11.3	123	0.00
22	t	Endrin Aldehyde	*	50.000	49.706	0.6	112	0.00
23	t	Methoxychlor	*	50.000	60.376	-20.8#	126	0.00
24	t	Mirex	*	50.000	58.627	-17.3	122	0.00
25	t	Endosulfan Sulfate		0.948	1.004	-5.9	122	0.00
26	t	Endrin Ketone		1.033	1.186	-14.8	129	0.00
27	s	Decachlorobiphenyl	*	50.000	31.753	36.5#	68	0.00

Evaluate Continuing Calibration Report - Not Founds

Evaluate Continuing Calibration Report

Data Path : I:\PEST\Pest10\2024\240624B\
Data File : 10240624b-03.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 24 Jun 2024   3:57 pm
Operator : PEST10:mmg
Sample   : wg1938709-1,42,,pest11595 (Sig #1); pest11595 (Sig #2)
Misc   : wg1938709,,ical21109
ALS Vial : 3 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 24 18:26:24 2024
Quant Method : I:\PEST\Pest10\2024\240624B\pest10_2024_05_02_ugL_ical21109.m
Quant Title : pest
QLast Update : Mon Jun 24 18:26:17 2024
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
28	i	1-br-2-nb_Chlordane	^	1.000	1.000	0.0	0	-1.25#
29	l1	chlordane-1		*1000.000	0.000	100.0#	0	-2.37#
30	l1	chlordane-3		*1000.000	0.000	100.0#	0	-2.43#
31	l1	chlordane-4		*1000.000	0.000	100.0#	0	-2.78#
32	l1	chlordane-5		*1000.000	0.000	100.0#	0	-3.32#
33	i	1-br-2-nb_Toxaphene	^	1.000	1.000	0.0	0	-1.25#
34	l2	toxaphene-1		*2000.000	0.000	100.0#	0	-4.34#
35	l2	toxaphene-2		*2000.000	0.000	100.0#	0	-4.46#
36	l2	toxaphene-4		*2000.000	0.000	100.0#	0	-4.89#
37	l2	toxaphene-5		*2000.000	0.000	100.0#	0	-5.08#

Signal #2

28	i	1-br-2-nb_Chlordane	^	1.000	1.000	0.0	0	-1.37#
29	l1	chlordane-1		*1000.000	0.000	100.0#	0	-2.81#
30	l1	chlordane-3		*1000.000	0.000	100.0#	0	-3.42#
31	l1	chlordane-4		*1000.000	0.000	100.0#	0	-4.11#
32	l1	chlordane-5		*1000.000	0.000	100.0#	0	-4.28#
33	i	1-br-2-nb_Toxaphene	^	1.000	1.000	0.0	0	-1.37#
34	l2	toxaphene-1		*2000.000	0.000	100.0#	0	-5.09#
35	l2	toxaphene-2		*2000.000	0.000	100.0#	0	-5.12#
36	l2	toxaphene-4		*2000.000	0.000	100.0#	0	-5.44#
37	l2	toxaphene-5		*2000.000	0.000	100.0#	0	-5.85#

* Evaluation of CC level amount vs concentration.
(#) = Out of Range SPCC's out = 0 CCC's out = 0
(^) = ISTD area calculated using ICAL average

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest10\2024\240624B\
Data File : 10240624b-03.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 24 Jun 2024 3:57 pm
Operator : PEST10:mmg
Sample : wg1938709-1,42,,pest11595 (Sig #1); pest11595 (Sig #2)
Misc : wg1938709,,ical21109
ALS Vial : 3 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 24 18:26:24 2024
Quant Method : I:\PEST\Pest10\2024\240624B\pest10_2024_05_02_ugL_ical21109.m
Quant Title : pest
QLast Update : Mon Jun 24 18:26:17 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	1.251	1.367	521.4E6	149.6E6	25.000M4	25.000
28) i	1-br-2-nb_Ch	0.000	0.000	0	0	N.D. d	N.D. d
33) i	1-br-2-nb_To	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	1.588	1.847	1104.9E6	304.9E6	48.810M4	54.225
	Spiked Amount 50.000	Range 30 - 150		Recovery =		97.62%	108.45%
27) s	Decachlorobi	6.220	6.931	604.6E6	138.7E6	35.602M4	31.753M4
	Spiked Amount 50.000	Range 30 - 150		Recovery =		71.20%	63.51%
	Target Compounds						
3) t	Hexachlorobe	1.796	2.168	1154.7E6	326.0E6	47.732M4	50.438M4
4) t	alpha-BHC	1.892	2.265	1706.0E6	452.4E6	54.153M4	56.506M4
5) t	gamma-BHC (l	2.089	2.551	1529.4E6	409.3E6	51.227M4	54.418M4
6) t	beta-BHC	2.144	2.616	622.6E6	175.0E6	52.257M4	53.125
7) t	delta-BHC	2.269	2.882	1499.7E6	402.9E6	50.909M4	53.360M4
8) t	Heptachlor	2.427	2.949	1565.9E6	407.3E6	55.224M4	54.534M4
9) t	Aldrin	2.663	3.268	1474.8E6	380.4E6	55.150M3	55.913M4
10) t	Alachlor	2.784	3.151	198.7E6	55672109	59.699M3	56.550M3
11) t	Chlorpyrifos	2.874	3.507	666.7E6	184.4E6	66.100	59.267
12) t	Heptachlor E	3.197	3.885	1351.5E6	354.8E6	53.055M4	52.163M4

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest10\2024\240624B\
Data File : 10240624b-03.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 24 Jun 2024 3:57 pm
Operator : PEST10:mmg
Sample : wg1938709-1,42,,pest11595 (Sig #1); pest11595 (Sig #2)
Misc : wg1938709,,ical21109
ALS Vial : 3 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 24 18:26:24 2024
Quant Method : I:\PEST\Pest10\2024\240624B\pest10_2024_05_02_ugL_ical21109.m
Quant Title : pest
QLast Update : Mon Jun 24 18:26:17 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

		Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
13)	t	gamma-Chlord	3.318	4.105	1412.6E6	362.7E6	60.618M4	59.963M4
14)	t	alpha-Chlord	3.450	4.278	1378.5E6	357.8E6	52.075	52.584M4
15)	t	4,4'-DDE	3.547	4.477	1376.2E6	351.2E6	54.895	55.825
16)	t	Endosulfan I	3.584	4.339	1271.1E6	333.8E6	52.406	52.750
17)	t	Dieldrin	3.840	4.633	1448.8E6	375.5E6	57.879M4	59.290M4
18)	t	Endrin	4.092	4.932	1407.4E6	358.6E6	54.738M4	55.186
19)	t	4,4'-DDD	4.209	5.054	1184.8E6	298.0E6	58.138M4	58.906
20)	t	Endosulfan I	4.342	5.130	1248.7E6	321.2E6	56.268M4	56.441M4
21)	t	4,4'-DDT	4.513	5.333	1267.9E6	319.5E6	56.219M4	55.659
22)	t	Endrin Aldeh	4.773	5.428	886.4E6	229.2E6	52.421M4	49.706
23)	t	Methoxychlor	5.016	5.899	685.7E6	173.5E6	66.121M4	60.376M4
24)	t	Mirex	5.065	6.036	996.4E6	255.4E6	58.684M4	58.627
25)	t	Endosulfan S	5.175	5.657	1145.8E6	300.3E6	52.065M4	52.949M4
26)	t	Endrin Keton	5.405	6.070	1327.4E6	354.6E6	54.992M4	57.382M4
29)	l1	chlordane-1	0.000	0.000	0	0	N.D. d	N.D. d
30)	l1	chlordane-3	0.000	0.000	0	0	N.D. d	N.D. d
31)	l1	chlordane-4	0.000	0.000	0	0	N.D. d	N.D. d
32)	l1	chlordane-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum	chlordane-1			0	0	N.D.	N.D.
Average		chlordane-1					0.000	0.000

Data Path : I:\PEST\Pest10\2024\240624B\
Data File : 10240624b-03.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 24 Jun 2024 3:57 pm
Operator : PEST10:mmg
Sample : wg1938709-1,42,,pest11595 (Sig #1); pest11595 (Sig #2)
Misc : wg1938709,,ical21109
ALS Vial : 3 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 24 18:26:24 2024
Quant Method : I:\PEST\Pest10\2024\240624B\pest10_2024_05_02_ugL_ical21109.m
Quant Title : pest
QLast Update : Mon Jun 24 18:26:17 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
34)	l2 toxaphene-1	0.000	0.000	0	0	N.D. d	N.D. d
35)	l2 toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
36)	l2 toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
37)	l2 toxaphene-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

	Sum toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

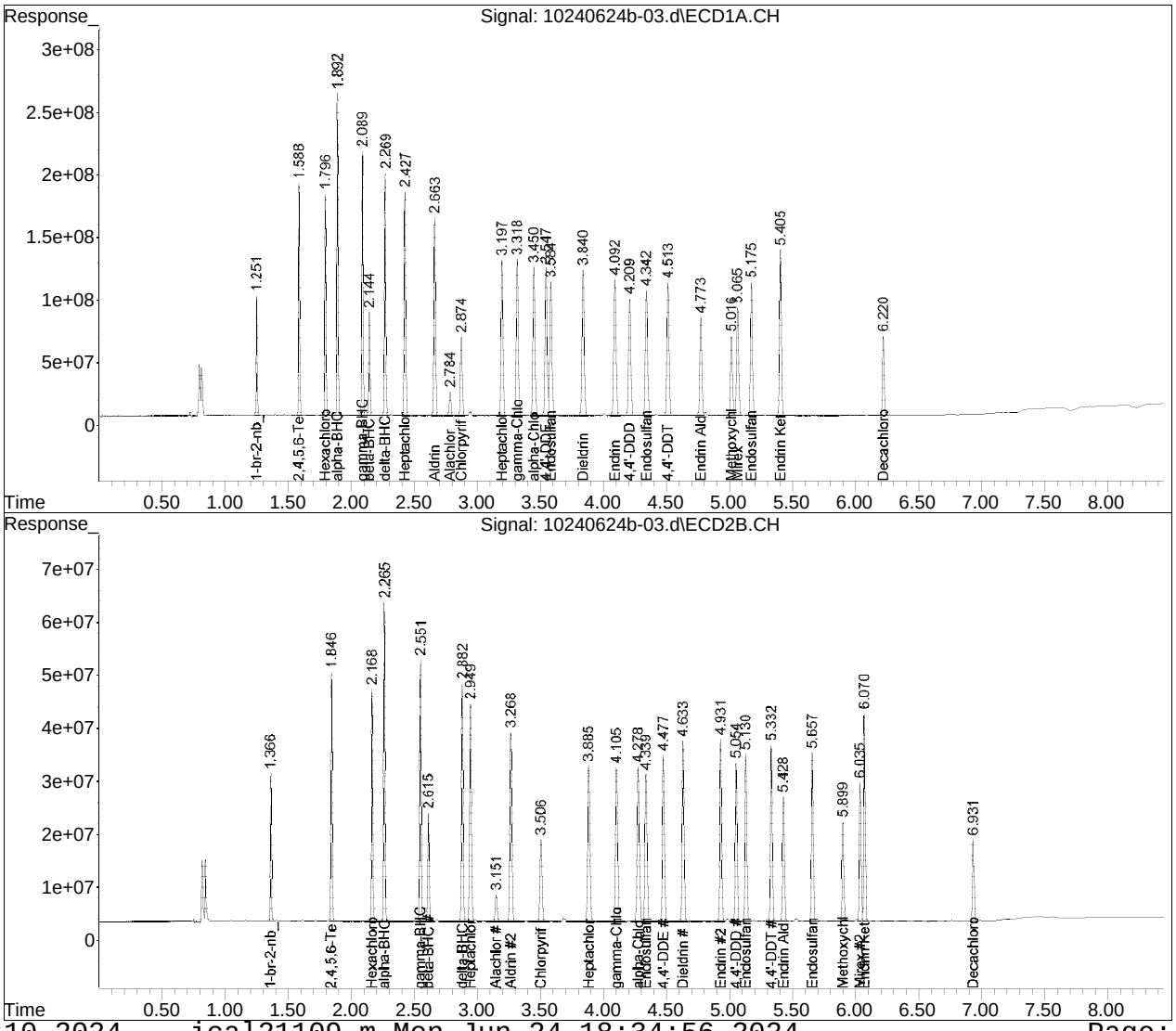
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest10\2024\240624B\
Data File : 10240624b-03.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 24 Jun 2024 3:57 pm
Operator : PEST10:mmg
Sample : wg1938709-1,42,,pest11595 (Sig #1); pest11595 (Sig #2)
Misc : wg1938709,,ical21109
ALS Vial : 3 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 24 18:26:24 2024
Quant Method : I:\PEST\Pest10\2024\240624B\pest10_2024_05_02_ugL_ical21109.m
Quant Title : pest
QLast Update : Mon Jun 24 18:26:17 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

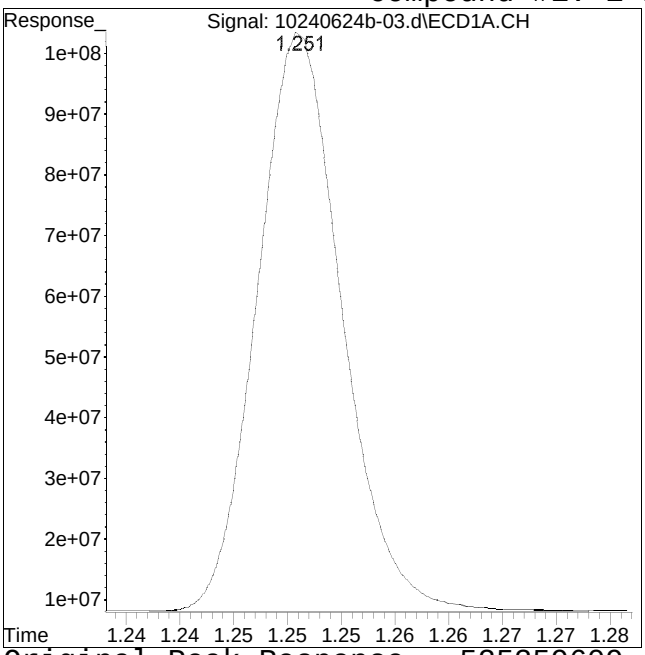
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

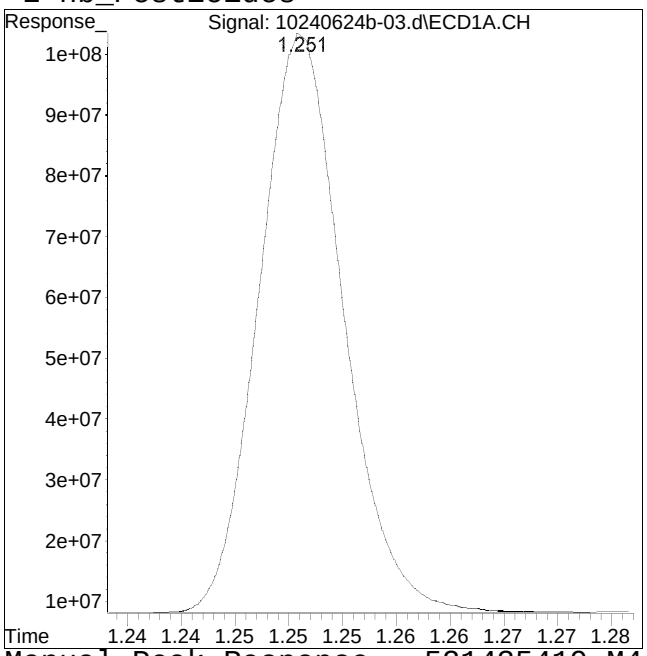


Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240624QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240624b-03.d Operator : PEST10:mmg
Date Inj'd : 6/24/2024 3:57 pm Instrument : Pest 10
Sample : wg1938709-1,42,,pest11595 Quant Date : 6/24/2024 6:26 pm

Compound #1: 1-br-2-nb_Pesticides



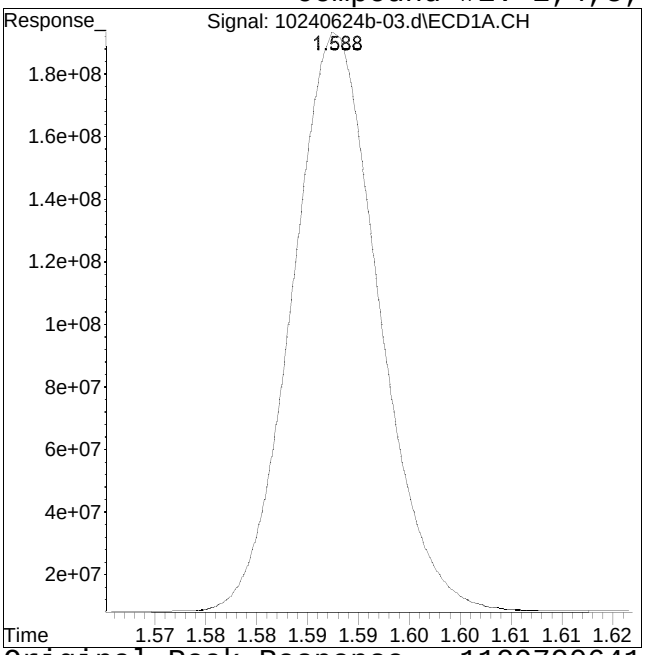


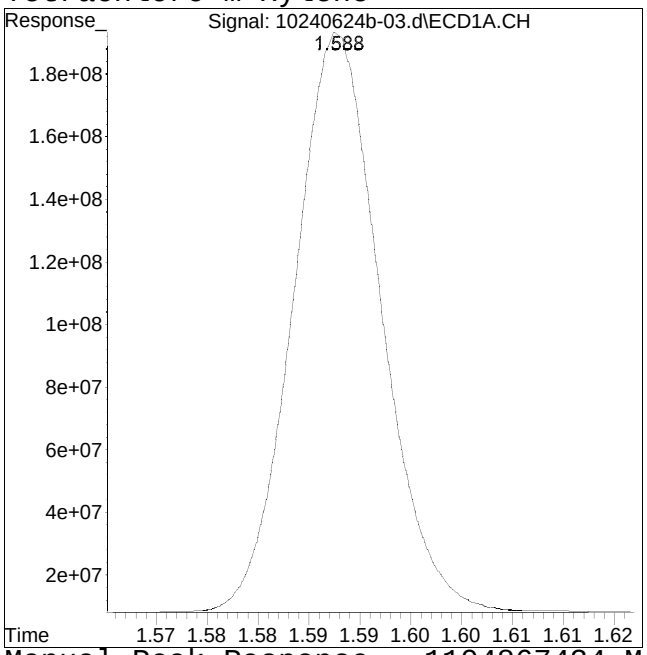
Original Peak Response = 525359609 Manual Peak Response = 521435419 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240624QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240624b-03.d Operator : PEST10:mmg
Date Inj'd : 6/24/2024 3:57 pm Instrument : Pest 10
Sample : wg1938709-1,42,,pest11595 Quant Date : 6/24/2024 6:26 pm

Compound #2: 2,4,5,6-Tetrachloro-m-xylene



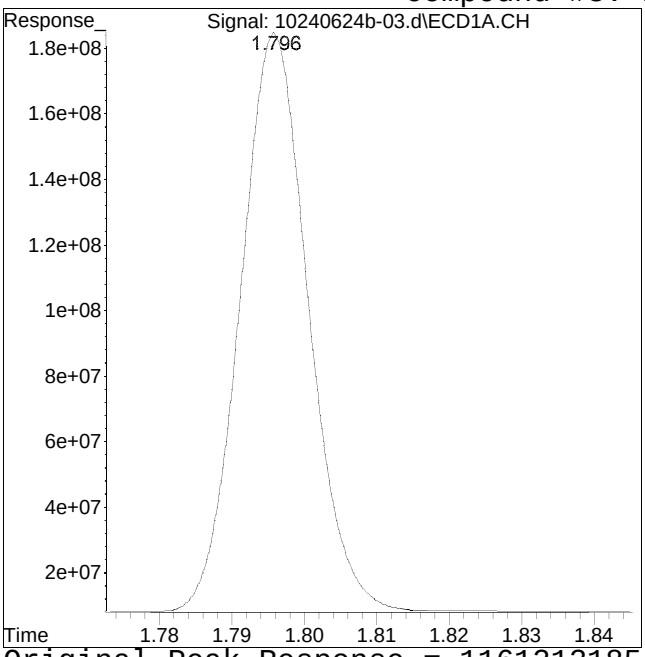


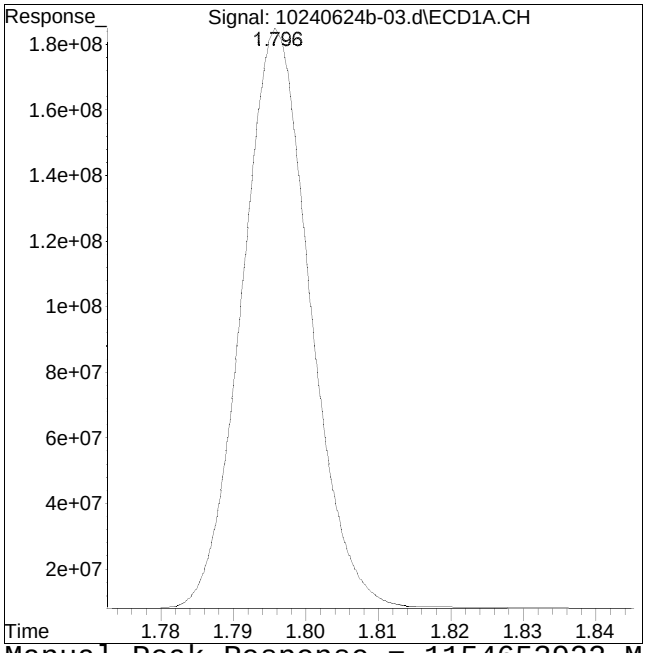
Original Peak Response = 1109790641 Manual Peak Response = 1104867434 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240624QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240624b-03.d Operator : PEST10:mmg
Date Inj'd : 6/24/2024 3:57 pm Instrument : Pest 10
Sample : wg1938709-1,42,,pest11595 Quant Date : 6/24/2024 6:26 pm

Compound #3: Hexachlorobenzene



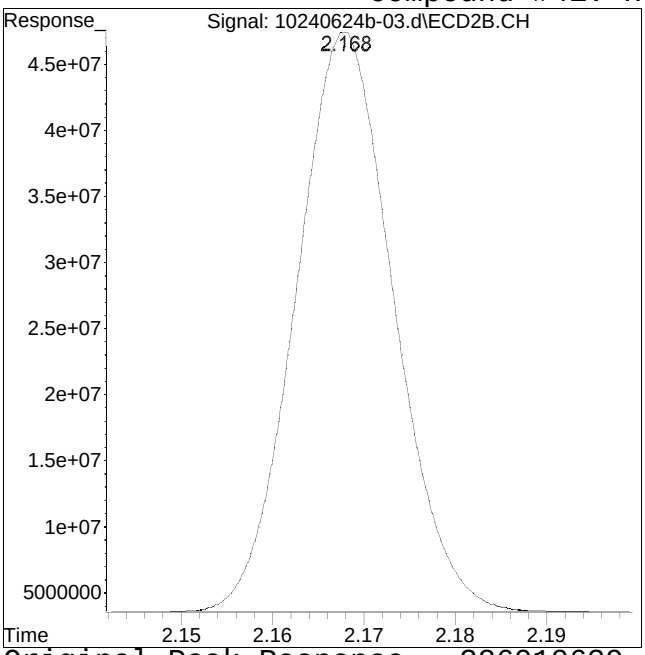


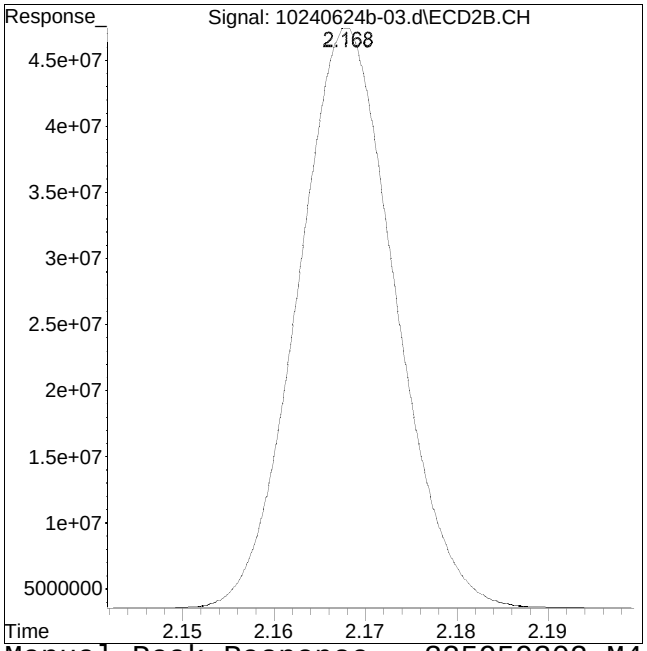
Original Peak Response = 1161213185 Manual Peak Response = 1154653922 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240624QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240624b-03.d Operator : PEST10:mmg
Date Inj'd : 6/24/2024 3:57 pm Instrument : Pest 10
Sample : wg1938709-1,42,,pest11595 Quant Date : 6/24/2024 6:26 pm

Compound #41: Hexachlorobenzene #2



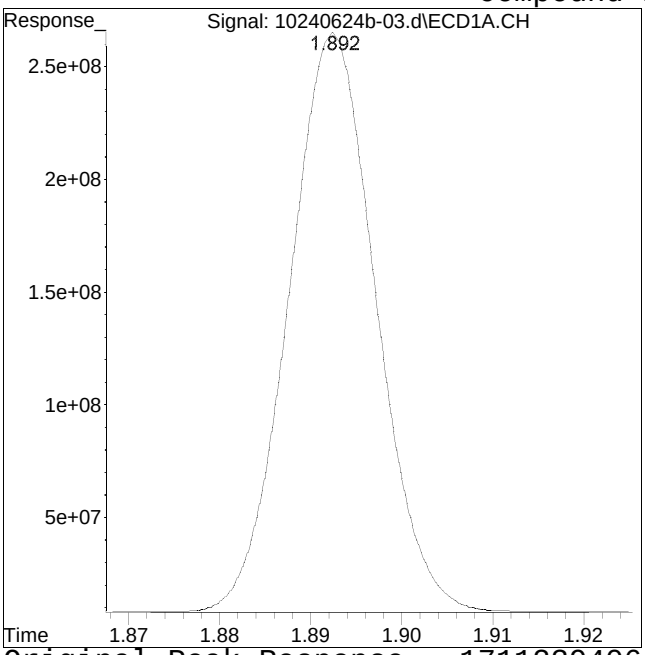


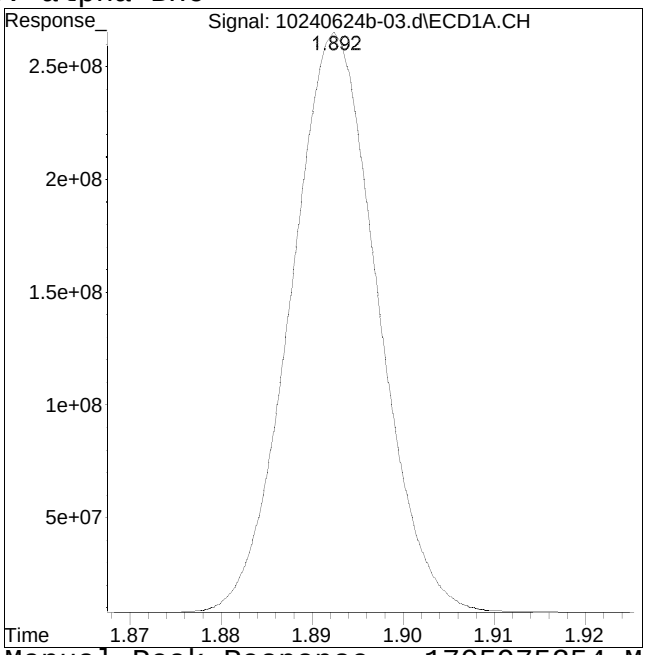
Original Peak Response = 326010639 Manual Peak Response = 325959302 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240624QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240624b-03.d Operator : PEST10:mmg
Date Inj'd : 6/24/2024 3:57 pm Instrument : Pest 10
Sample : wg1938709-1,42,,pest11595 Quant Date : 6/24/2024 6:26 pm

Compound #4: alpha-BHC



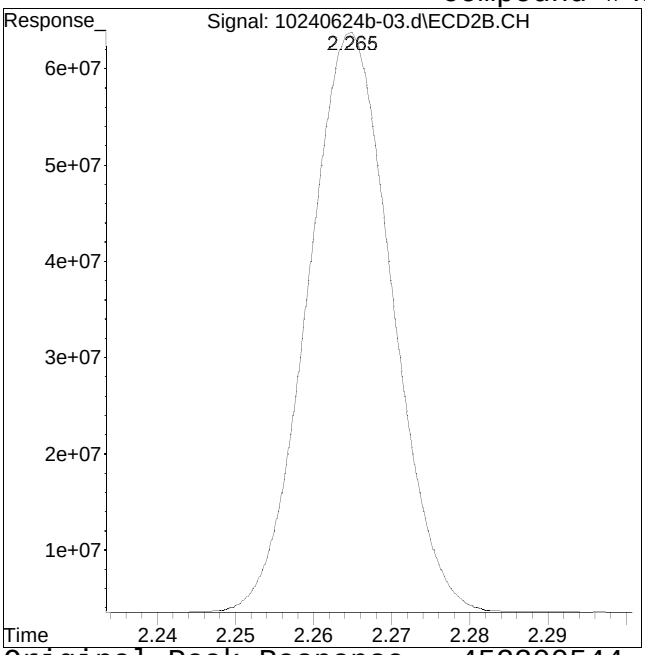


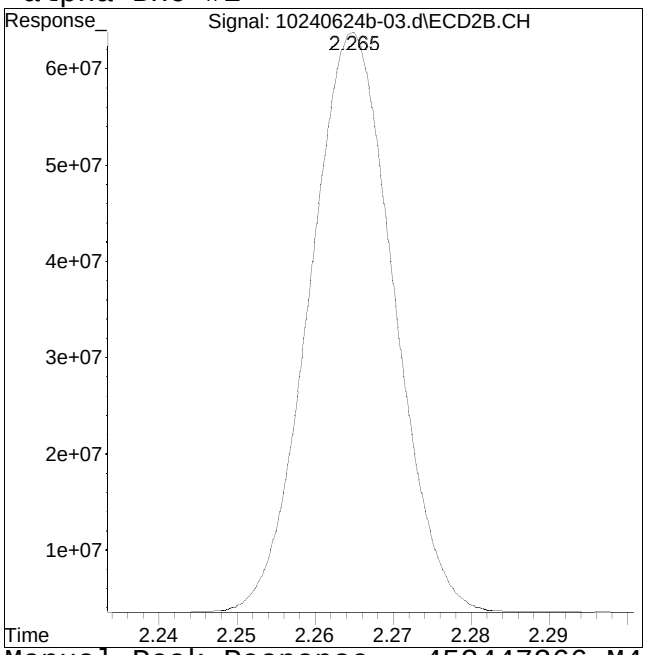
Original Peak Response = 1711239406 Manual Peak Response = 1705975254 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240624QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240624b-03.d Operator : PEST10:mmg
Date Inj'd : 6/24/2024 3:57 pm Instrument : Pest 10
Sample : wg1938709-1,42,,pest11595 Quant Date : 6/24/2024 6:26 pm

Compound #42: alpha-BHC #2



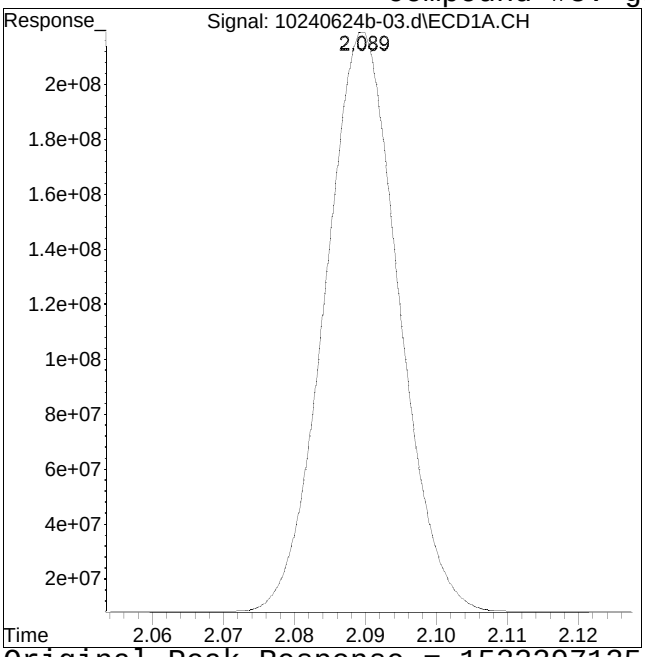


Original Peak Response = 452300544 Manual Peak Response = 452447366 M4
M4 = Poor automated baseline construction.

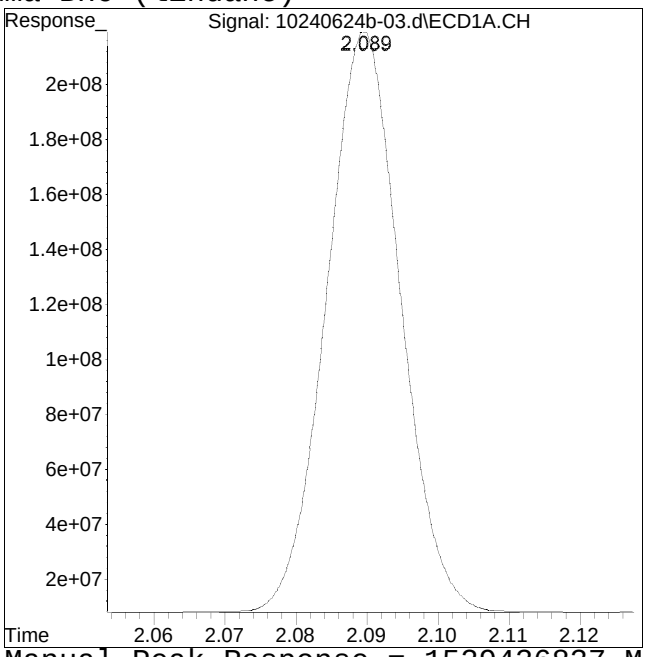
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240624QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240624b-03.d Operator : PEST10:mmg
Date Inj'd : 6/24/2024 3:57 pm Instrument : Pest 10
Sample : wg1938709-1,42,,pest11595 Quant Date : 6/24/2024 6:26 pm

Compound #5: gamma-BHC (lindane)



Original Peak Response = 1533397135



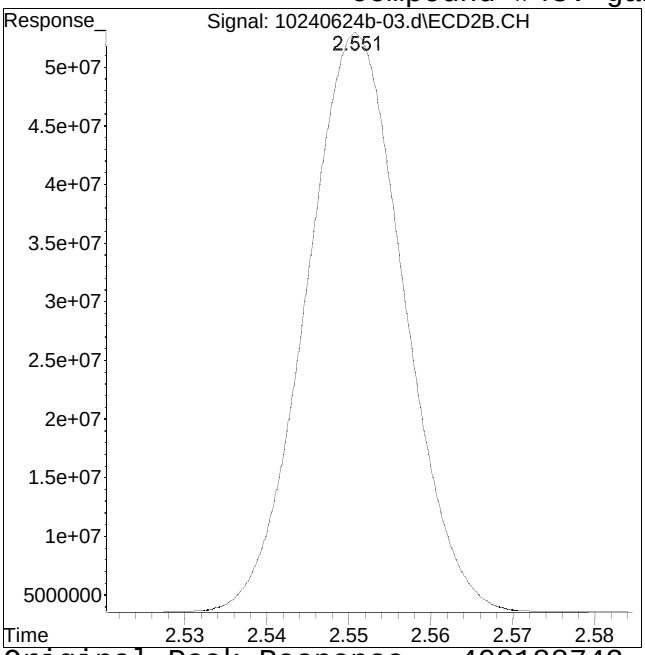
Manual Peak Response = 1529436837 M4

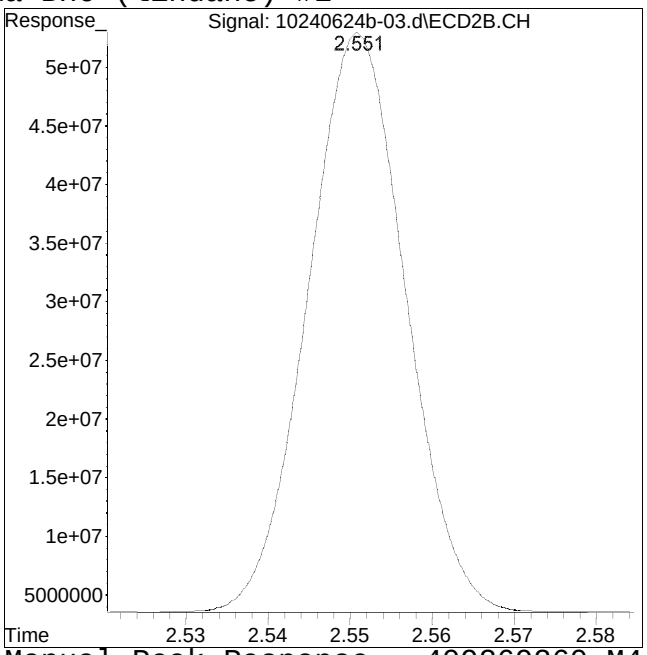
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240624QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240624b-03.d Operator : PEST10:mmg
Date Inj'd : 6/24/2024 3:57 pm Instrument : Pest 10
Sample : wg1938709-1,42,,pest11595 Quant Date : 6/24/2024 6:26 pm

Compound #43: gamma-BHC (lindane) #2



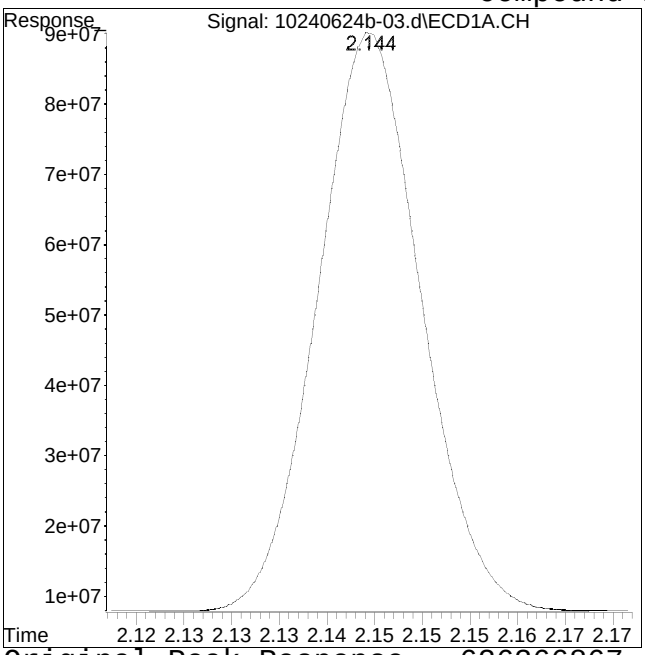


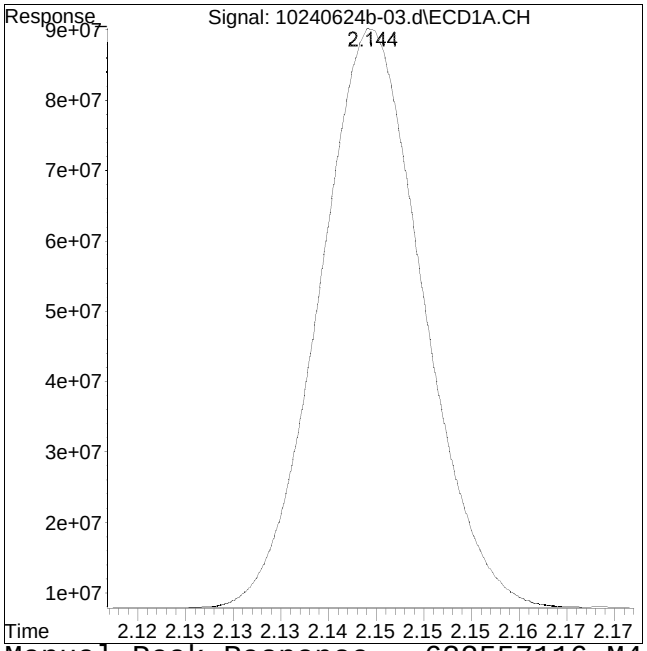
Original Peak Response = 409188742 Manual Peak Response = 409269260 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240624QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240624b-03.d Operator : PEST10:mmg
Date Inj'd : 6/24/2024 3:57 pm Instrument : Pest 10
Sample : wg1938709-1,42,,pest11595 Quant Date : 6/24/2024 6:26 pm

Compound #6: beta-BHC



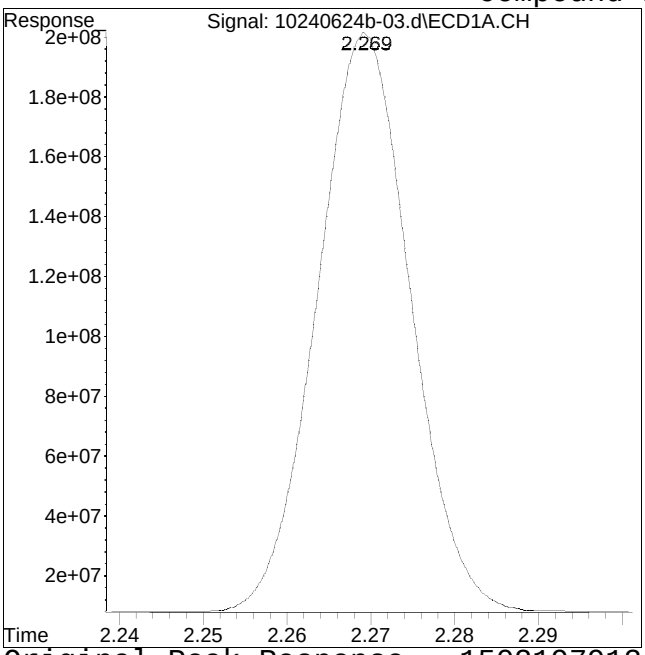


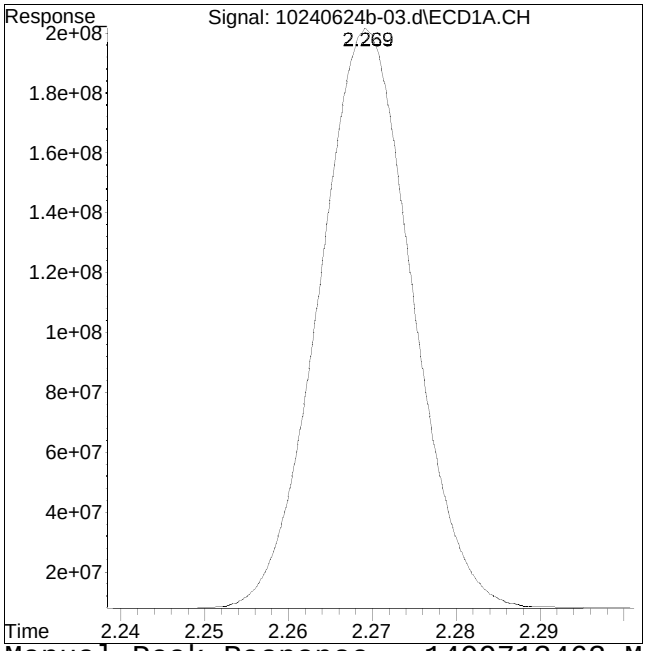
Original Peak Response = 626366867 Manual Peak Response = 622557116 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240624QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240624b-03.d Operator : PEST10:mmg
Date Inj'd : 6/24/2024 3:57 pm Instrument : Pest 10
Sample : wg1938709-1,42,,pest11595 Quant Date : 6/24/2024 6:26 pm

Compound #7: delta-BHC



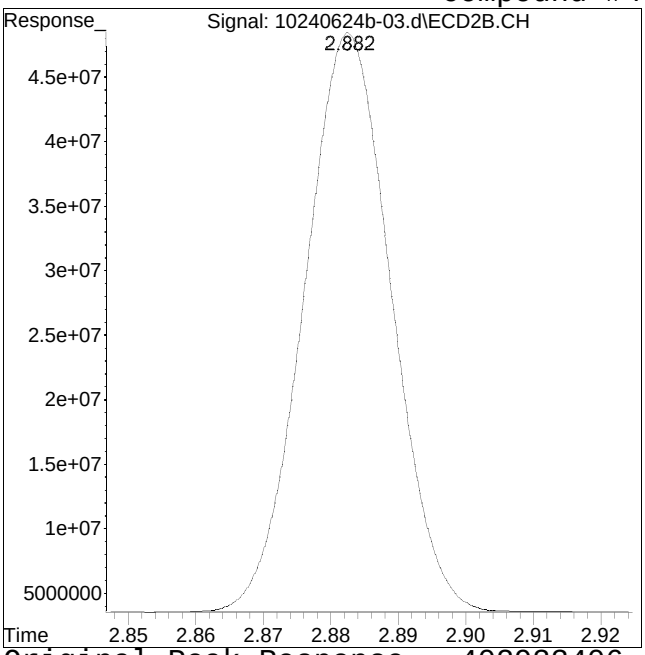


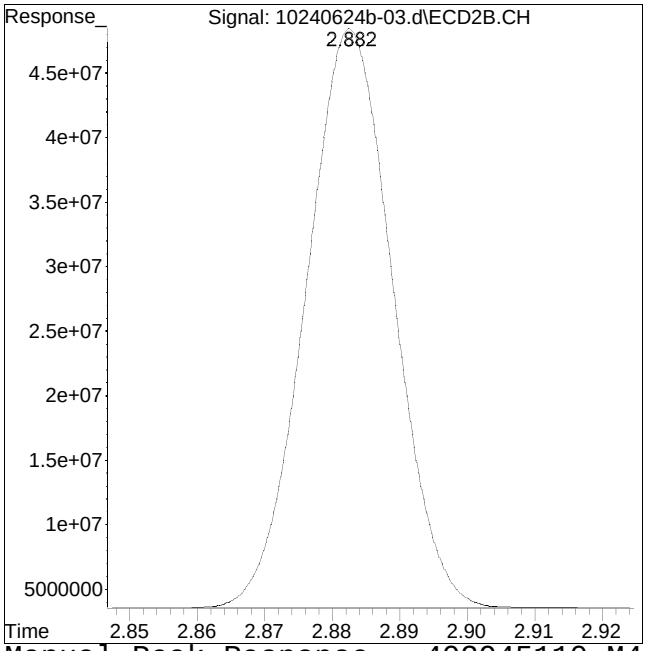
Original Peak Response = 1502197913 Manual Peak Response = 1499713463 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240624QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240624b-03.d Operator : PEST10:mmg
Date Inj'd : 6/24/2024 3:57 pm Instrument : Pest 10
Sample : wg1938709-1,42,,pest11595 Quant Date : 6/24/2024 6:26 pm

Compound #45: delta-BHC #2



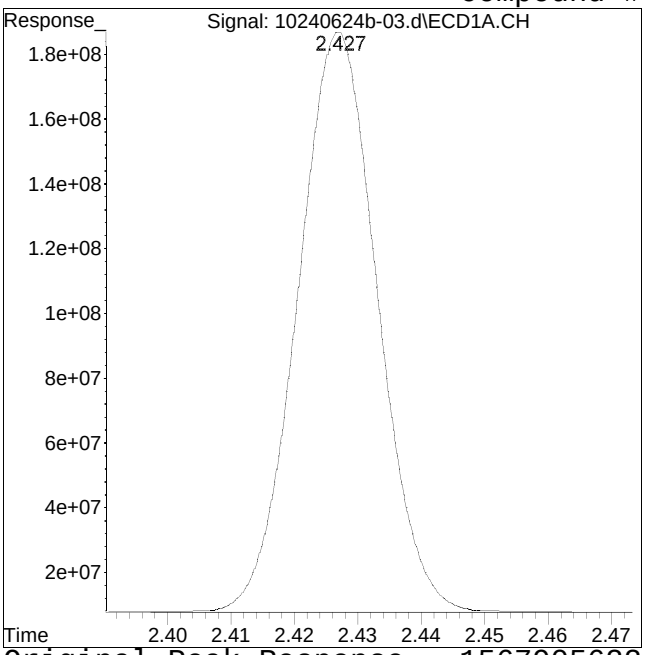


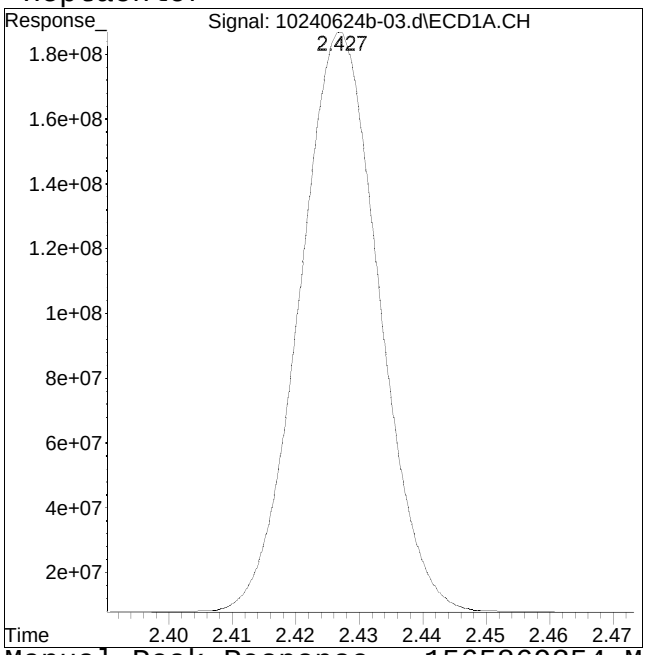
Original Peak Response = 402933406 Manual Peak Response = 402945110 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240624QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240624b-03.d Operator : PEST10:mmg
Date Inj'd : 6/24/2024 3:57 pm Instrument : Pest 10
Sample : wg1938709-1,42,,pest11595 Quant Date : 6/24/2024 6:26 pm

Compound #8: Heptachlor



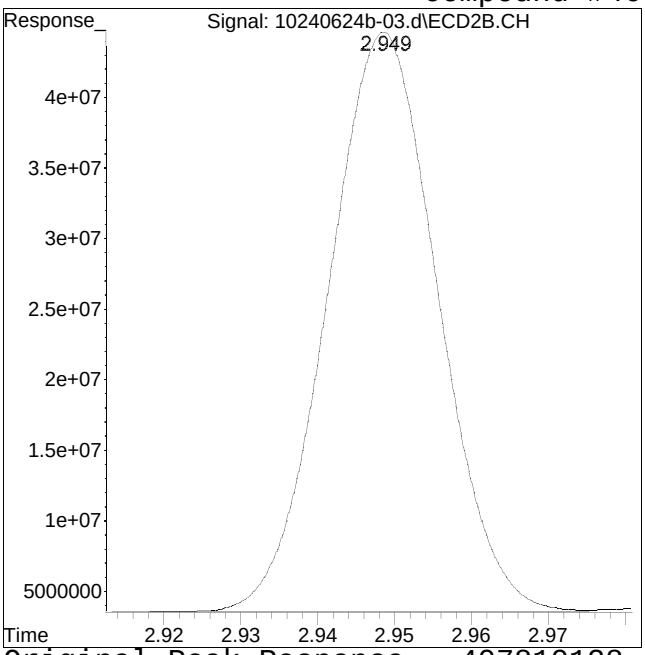


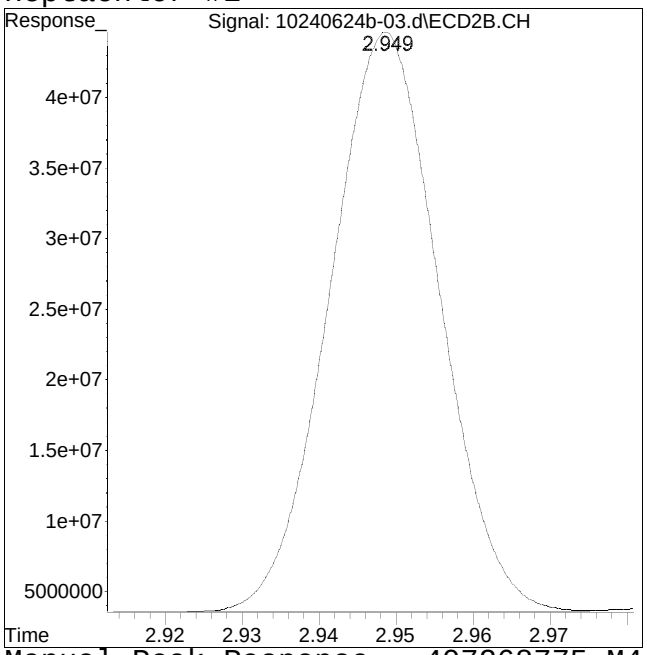
Original Peak Response = 1567905622 Manual Peak Response = 1565869254 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240624QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240624b-03.d Operator : PEST10:mmg
Date Inj'd : 6/24/2024 3:57 pm Instrument : Pest 10
Sample : wg1938709-1,42,,pest11595 Quant Date : 6/24/2024 6:26 pm

Compound #46: Heptachlor #2



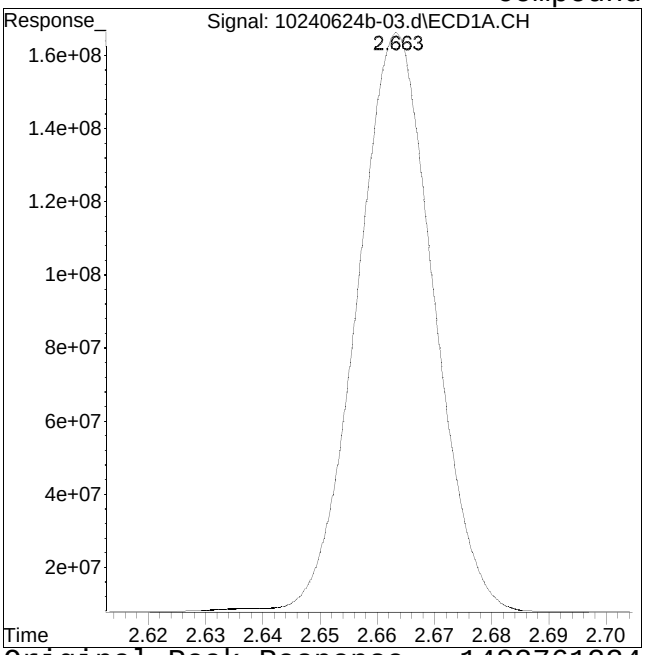


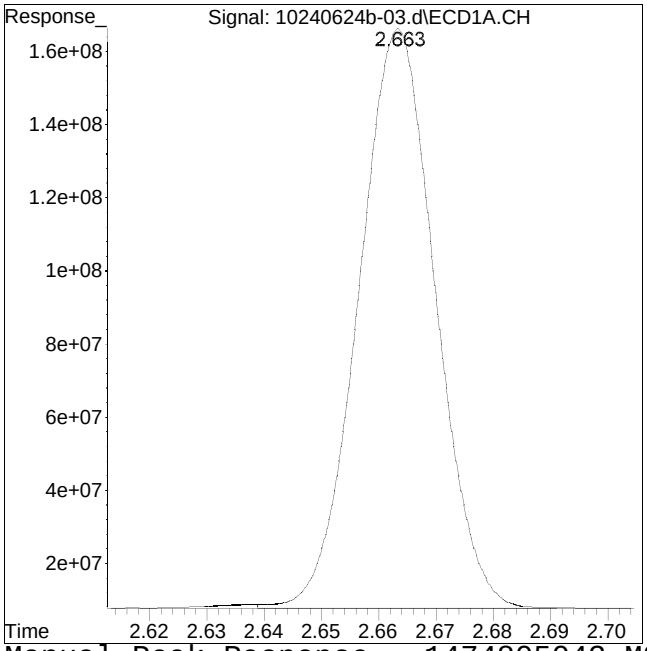
Original Peak Response = 407810128 Manual Peak Response = 407268775 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240624QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240624b-03.d Operator : PEST10:mmg
Date Inj'd : 6/24/2024 3:57 pm Instrument : Pest 10
Sample : wg1938709-1,42,,pest11595 Quant Date : 6/24/2024 6:26 pm

Compound #9: Aldrin



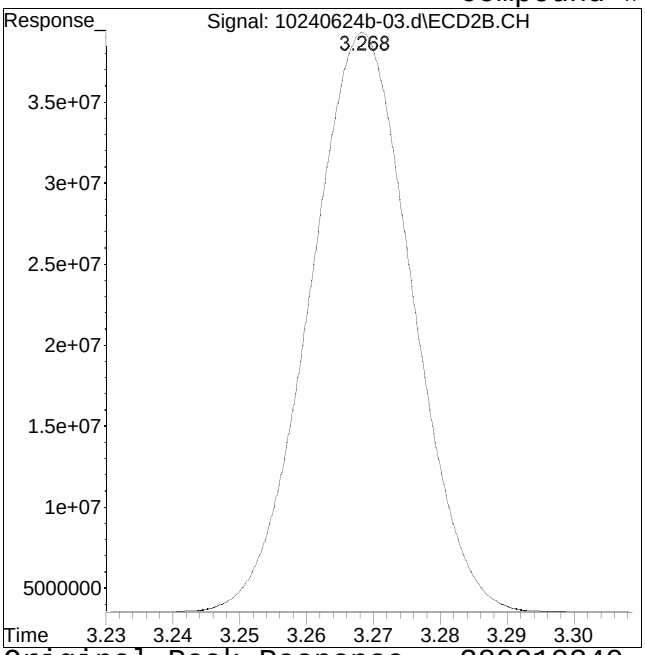


Original Peak Response = 1482761224 Manual Peak Response = 1474805043 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

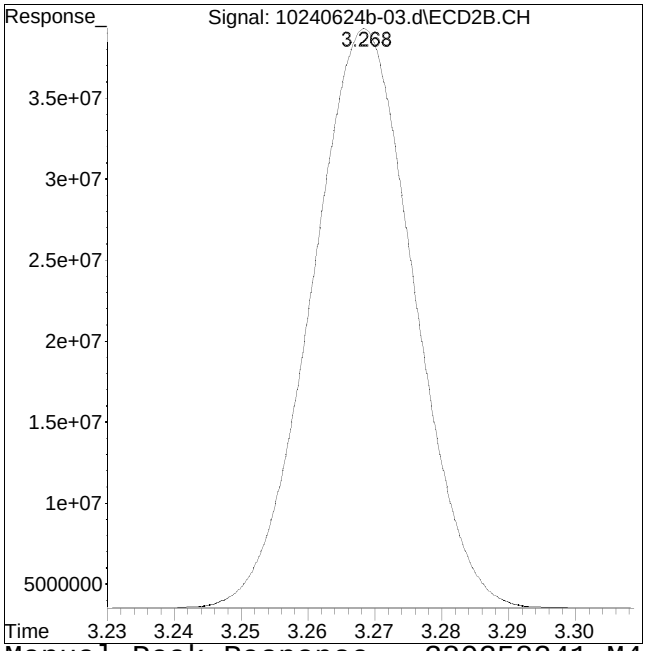
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240624QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240624b-03.d Operator : PEST10:mmg
Date Inj'd : 6/24/2024 3:57 pm Instrument : Pest 10
Sample : wg1938709-1,42,,pest11595 Quant Date : 6/24/2024 6:26 pm

Compound #47: Aldrin #2



Original Peak Response = 380310340



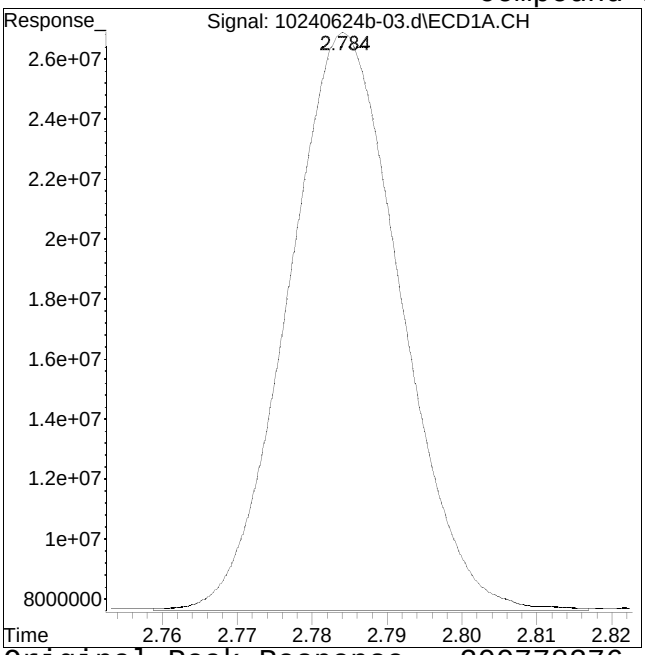
Manual Peak Response = 380358241 M4

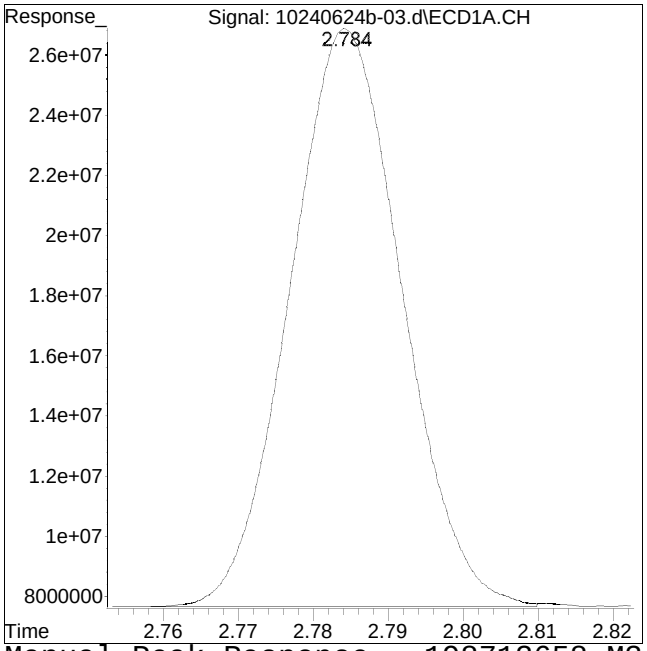
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240624QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240624b-03.d Operator : PEST10:mmg
Date Inj'd : 6/24/2024 3:57 pm Instrument : Pest 10
Sample : wg1938709-1,42,,pest11595 Quant Date : 6/24/2024 6:26 pm

Compound #10: Alachlor



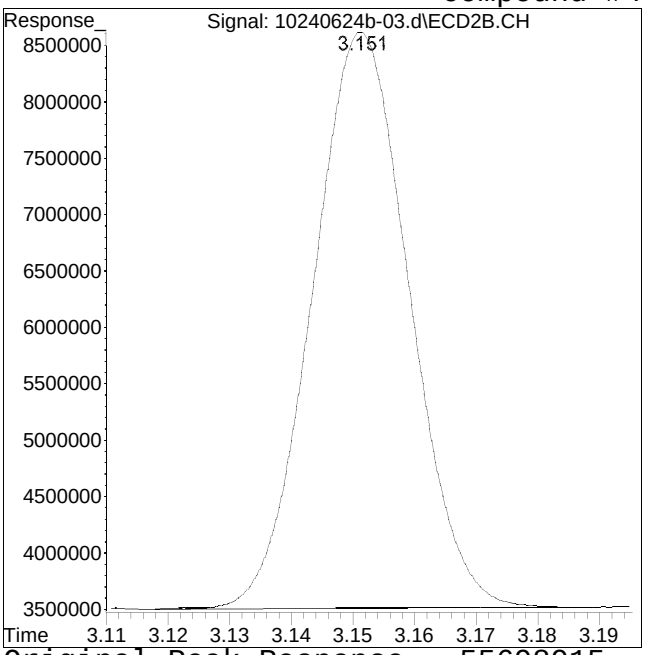


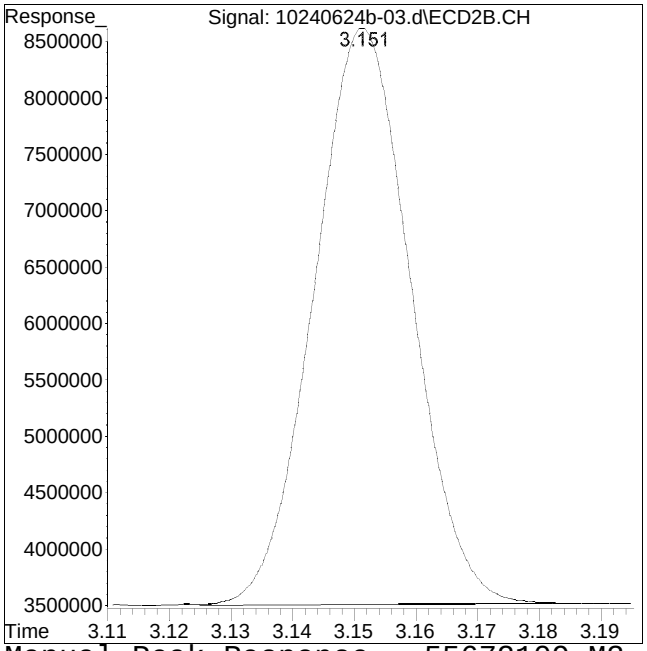
Original Peak Response = 200778376 Manual Peak Response = 198713658 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240624QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240624b-03.d Operator : PEST10:mmg
Date Inj'd : 6/24/2024 3:57 pm Instrument : Pest 10
Sample : wg1938709-1,42,,pest11595 Quant Date : 6/24/2024 6:26 pm

Compound #48: Alachlor #2



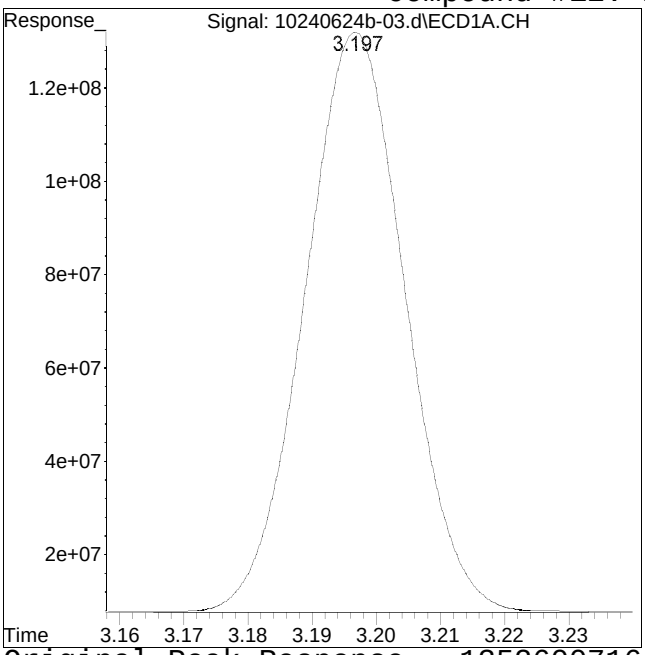


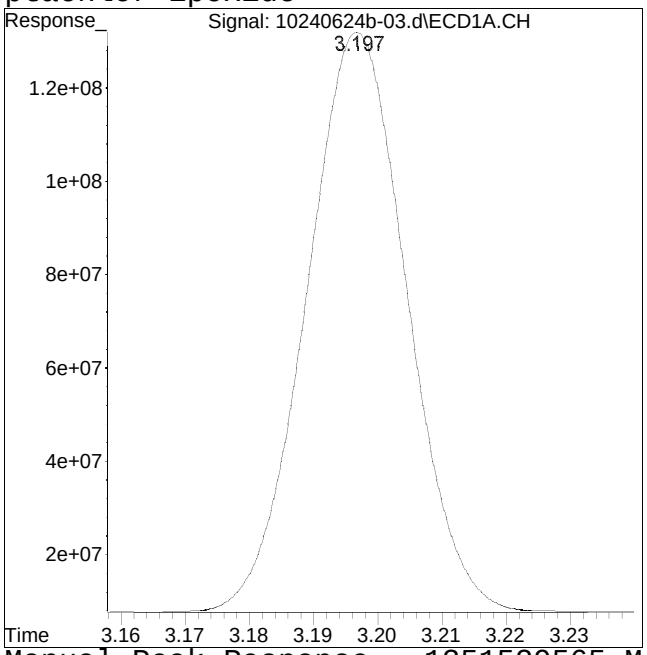
Original Peak Response = 55698915 Manual Peak Response = 55672109 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240624QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240624b-03.d Operator : PEST10:mmg
Date Inj'd : 6/24/2024 3:57 pm Instrument : Pest 10
Sample : wg1938709-1,42,,pest11595 Quant Date : 6/24/2024 6:26 pm

Compound #12: Heptachlor Epoxide



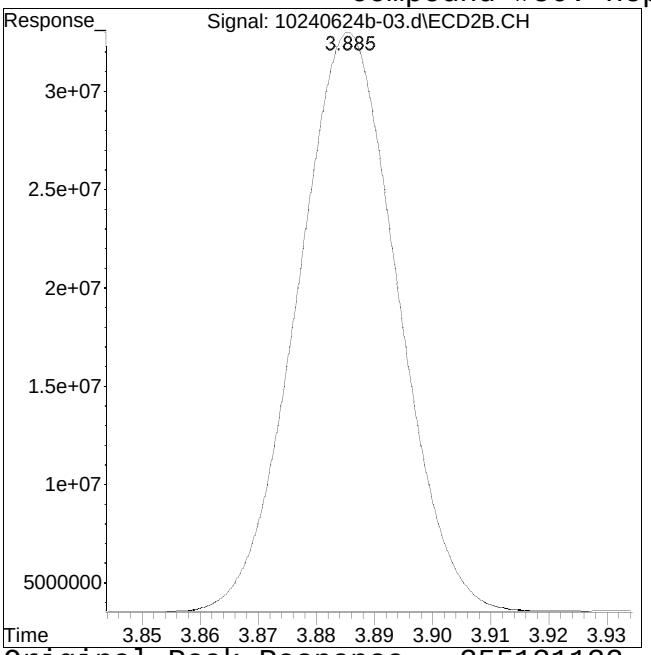


Original Peak Response = 1352600716 Manual Peak Response = 1351529565 M4
M4 = Poor automated baseline construction.

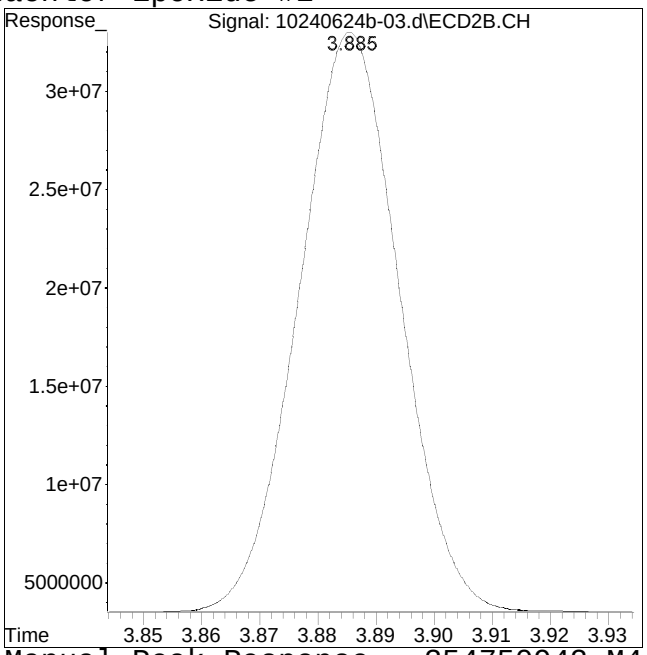
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240624QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240624b-03.d Operator : PEST10:mmg
Date Inj'd : 6/24/2024 3:57 pm Instrument : Pest 10
Sample : wg1938709-1,42,,pest11595 Quant Date : 6/24/2024 6:26 pm

Compound #50: Heptachlor Epoxide #2



Original Peak Response = 355131132

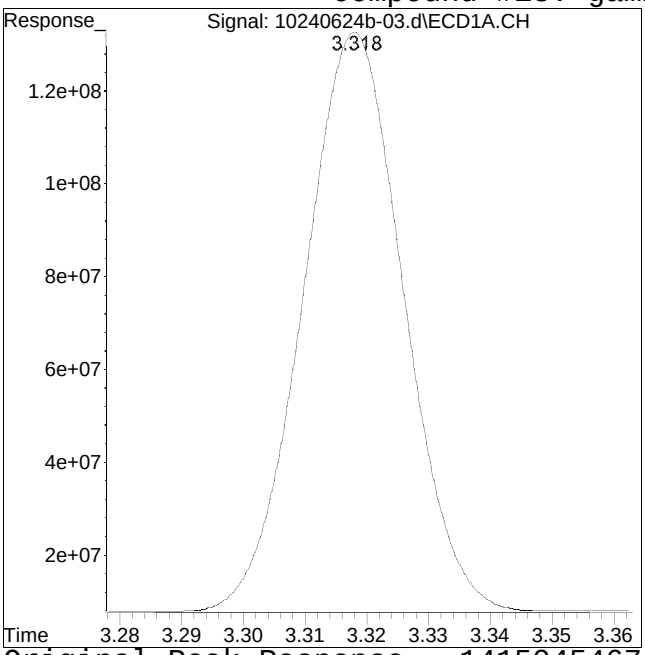


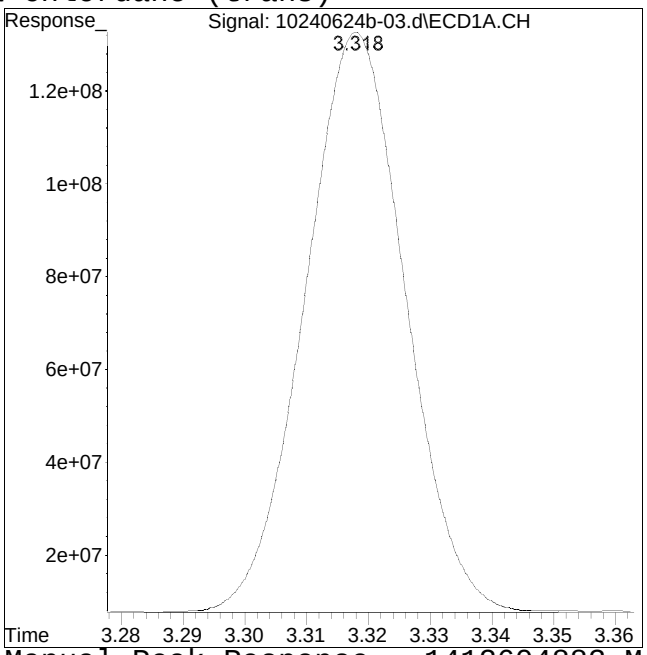
Manual Peak Response = 354750942 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240624QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240624b-03.d Operator : PEST10:mmg
Date Inj'd : 6/24/2024 3:57 pm Instrument : Pest 10
Sample : wg1938709-1,42,,pest11595 Quant Date : 6/24/2024 6:26 pm

Compound #13: gamma-Chlordane (trans)



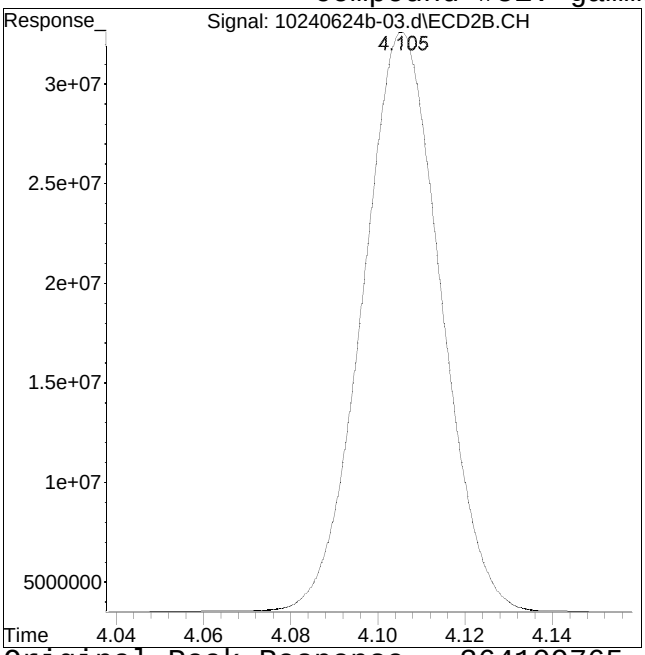


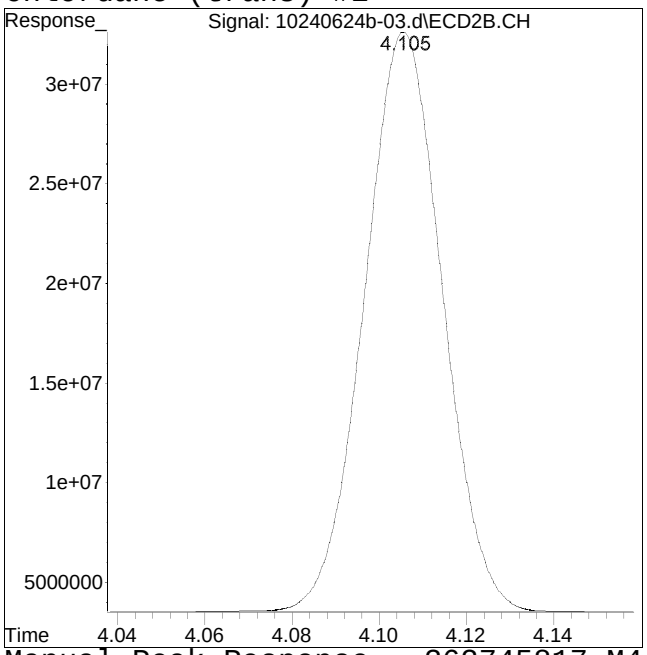
Original Peak Response = 1415045467 Manual Peak Response = 1412604883 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240624QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240624b-03.d Operator : PEST10:mmg
Date Inj'd : 6/24/2024 3:57 pm Instrument : Pest 10
Sample : wg1938709-1,42,,pest11595 Quant Date : 6/24/2024 6:26 pm

Compound #51: gamma-Chlordane (trans) #2



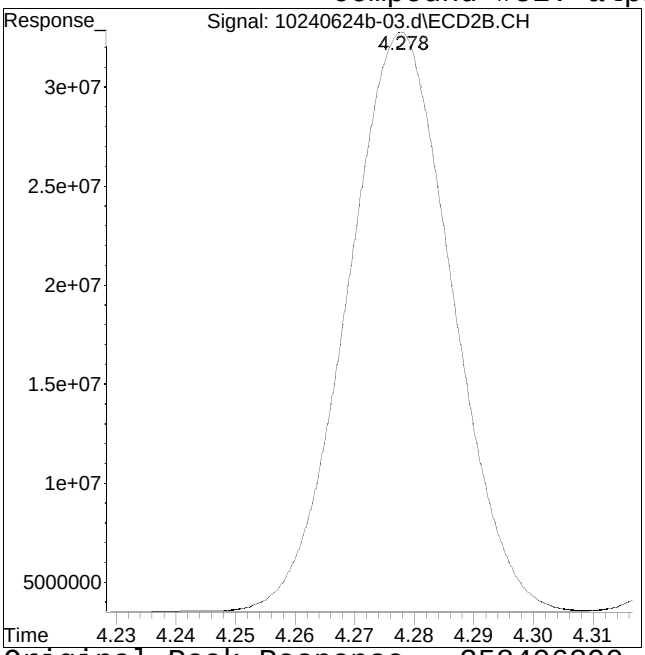


Original Peak Response = 364109765 Manual Peak Response = 362745817 M4
M4 = Poor automated baseline construction.

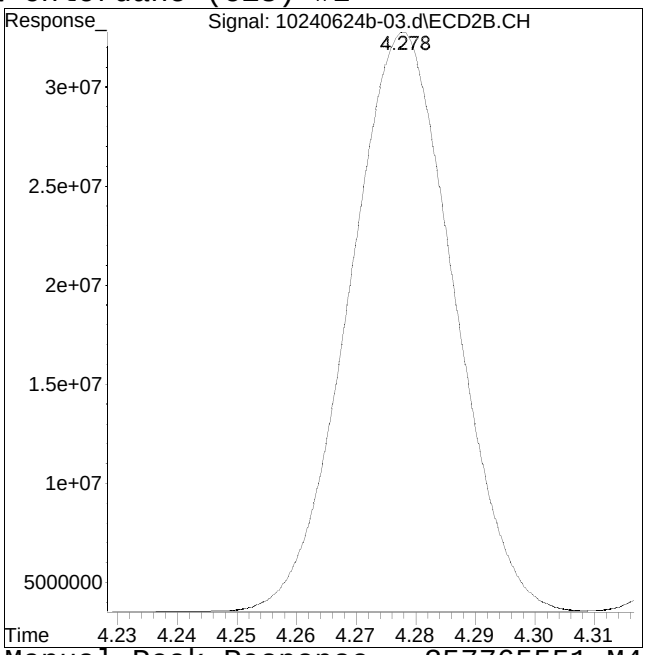
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240624QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240624b-03.d Operator : PEST10:mmg
Date Inj'd : 6/24/2024 3:57 pm Instrument : Pest 10
Sample : wg1938709-1,42,,pest11595 Quant Date : 6/24/2024 6:26 pm

Compound #52: alpha-Chlordane (cis) #2



Original Peak Response = 358406390



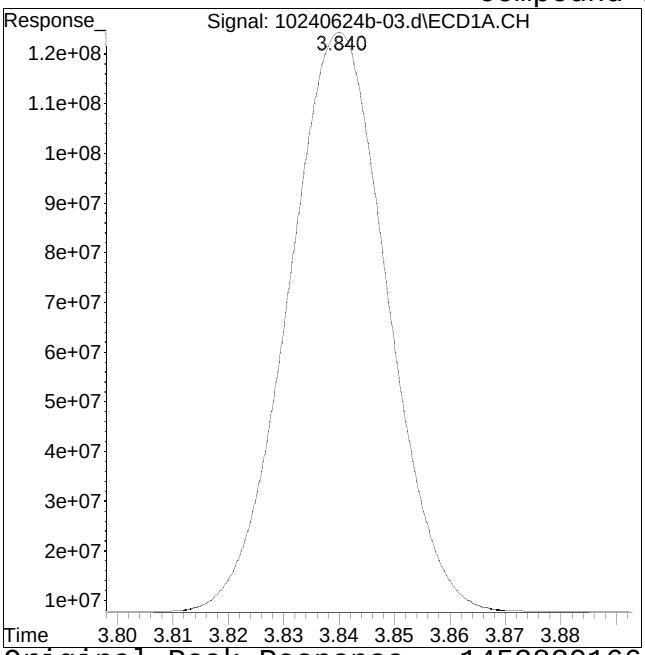
Manual Peak Response = 357765551 M4

M4 = Poor automated baseline construction.

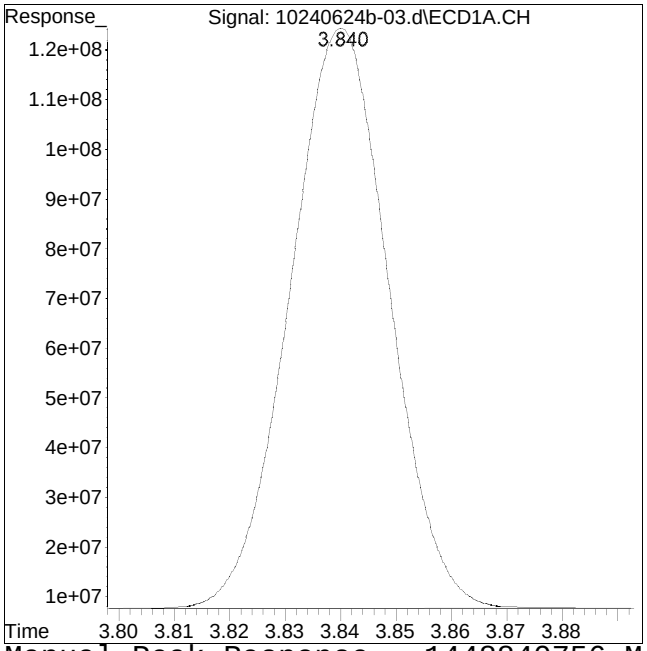
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240624QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240624b-03.d Operator : PEST10:mmg
Date Inj'd : 6/24/2024 3:57 pm Instrument : Pest 10
Sample : wg1938709-1,42,,pest11595 Quant Date : 6/24/2024 6:26 pm

Compound #17: Dieldrin



Original Peak Response = 1452829166



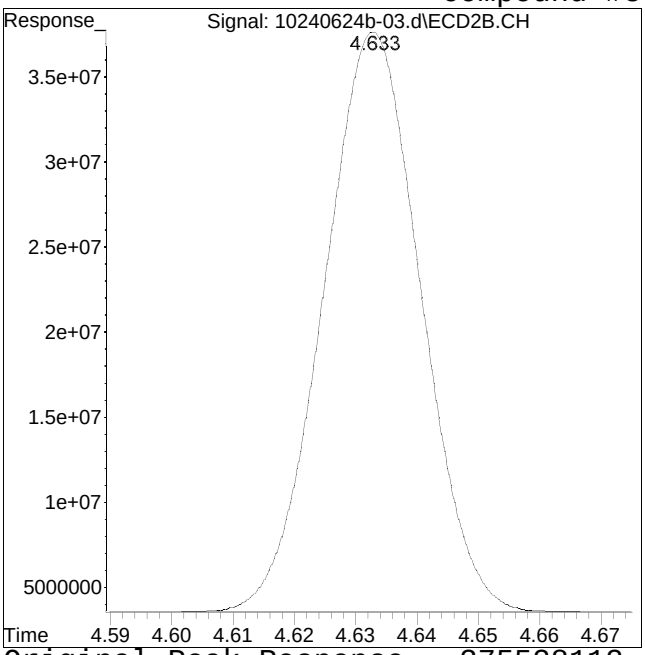
Manual Peak Response = 1448840756 M4

M4 = Poor automated baseline construction.

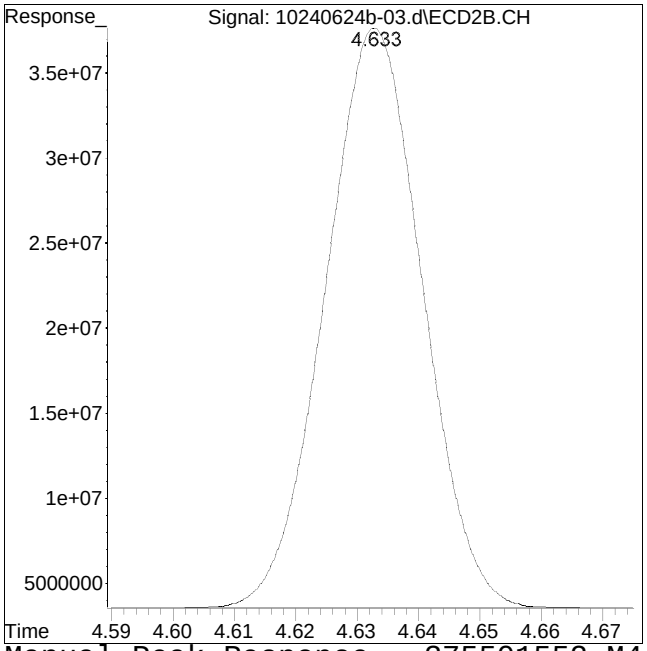
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240624QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240624b-03.d Operator : PEST10:mmg
Date Inj'd : 6/24/2024 3:57 pm Instrument : Pest 10
Sample : wg1938709-1,42,,pest11595 Quant Date : 6/24/2024 6:26 pm

Compound #55: Dieldrin #2



Original Peak Response = 375528112



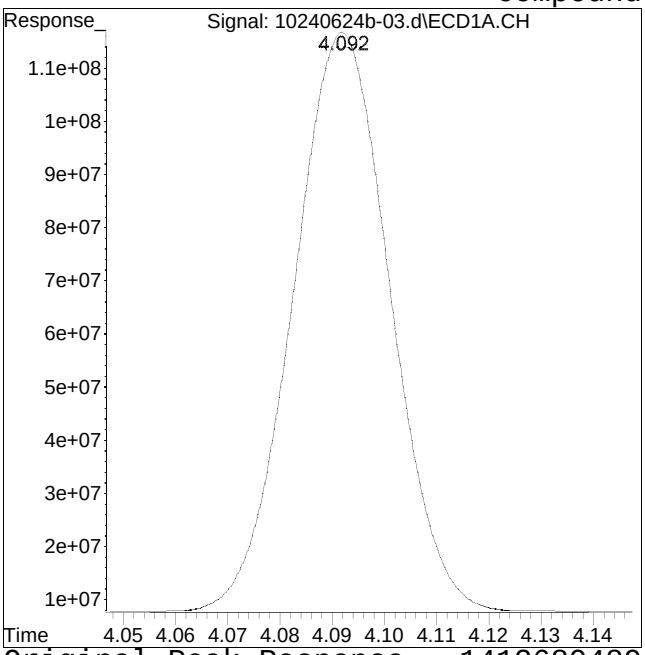
Manual Peak Response = 375501552 M4

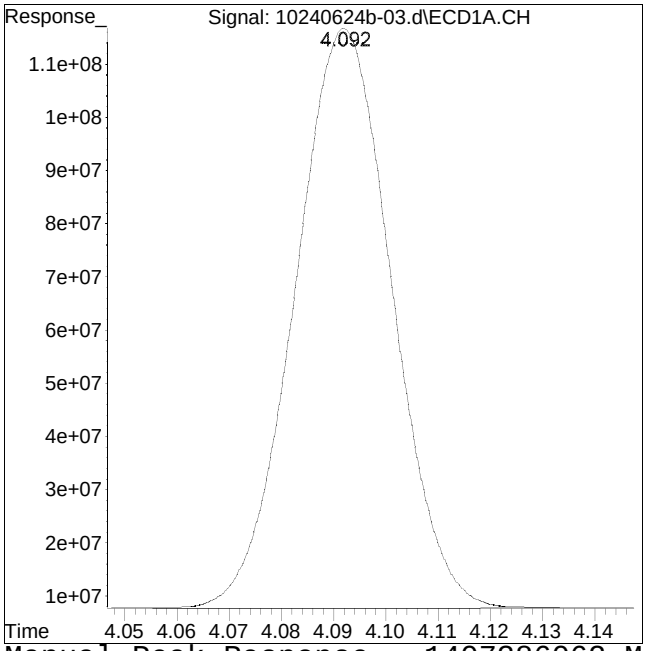
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240624QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240624b-03.d Operator : PEST10:mmg
Date Inj'd : 6/24/2024 3:57 pm Instrument : Pest 10
Sample : wg1938709-1,42,,pest11595 Quant Date : 6/24/2024 6:26 pm

Compound #18: Endrin



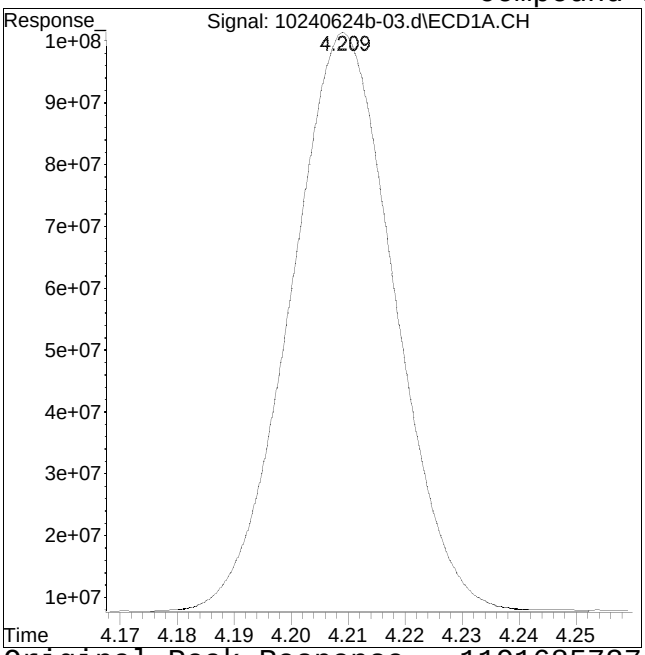


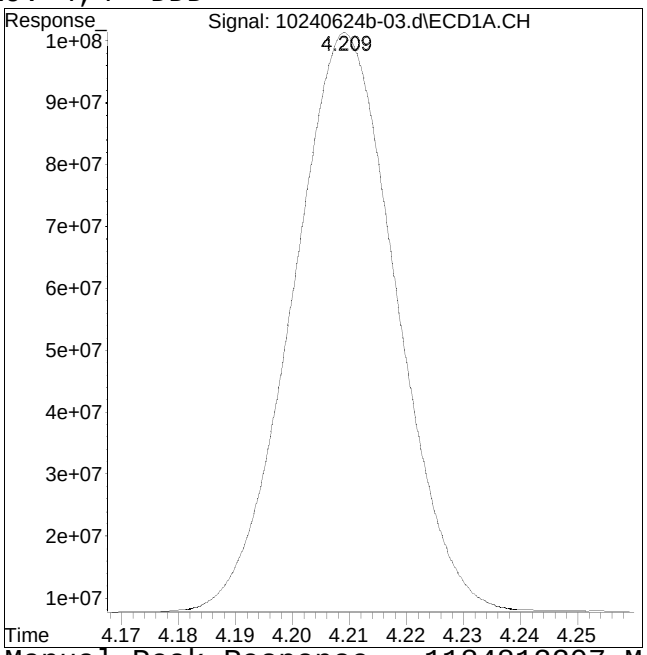
Original Peak Response = 1412689489 Manual Peak Response = 1407386062 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240624QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240624b-03.d Operator : PEST10:mmg
Date Inj'd : 6/24/2024 3:57 pm Instrument : Pest 10
Sample : wg1938709-1,42,,pest11595 Quant Date : 6/24/2024 6:26 pm

Compound #19: 4,4'-DDD



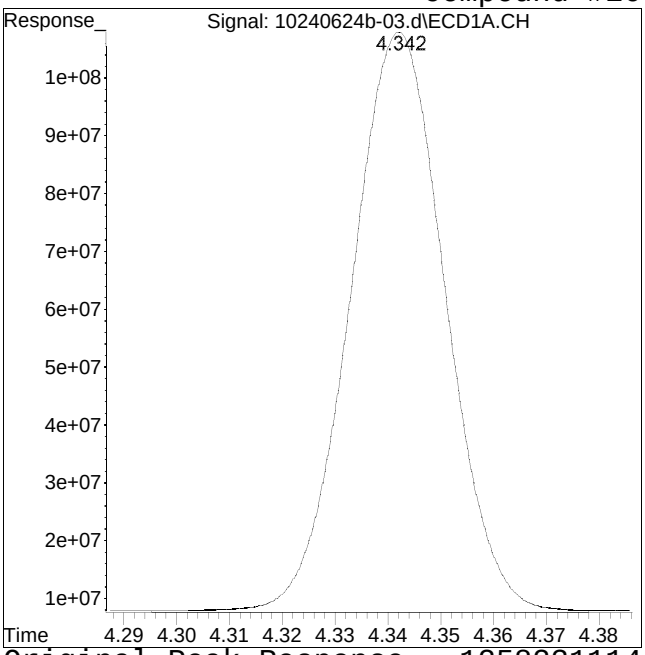


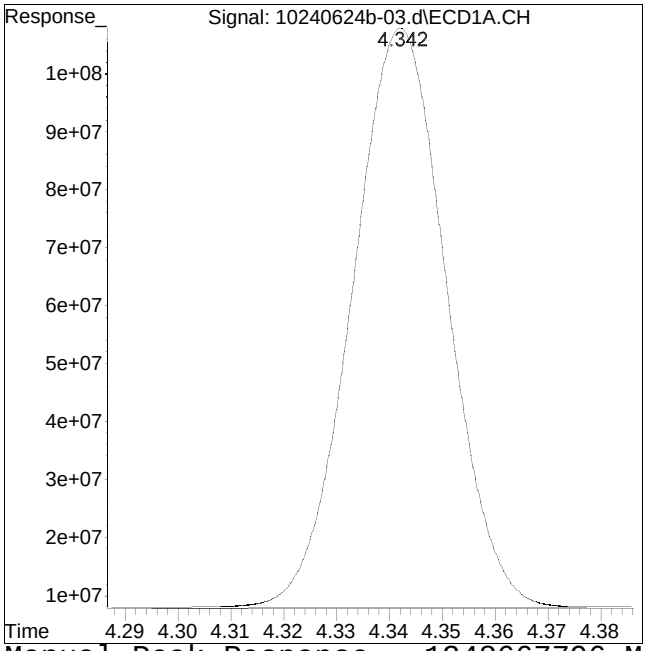
Original Peak Response = 1191685737 Manual Peak Response = 1184813207 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240624QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240624b-03.d Operator : PEST10:mmg
Date Inj'd : 6/24/2024 3:57 pm Instrument : Pest 10
Sample : wg1938709-1,42,,pest11595 Quant Date : 6/24/2024 6:26 pm

Compound #20: Endosulfan II



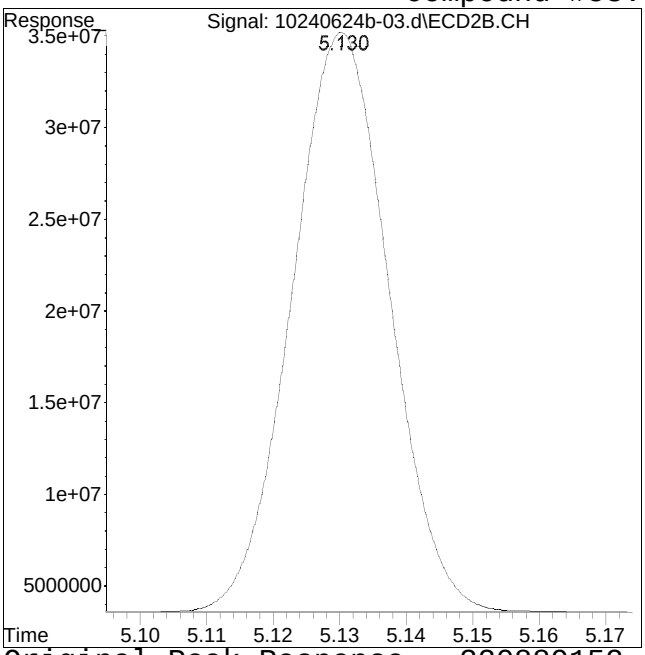


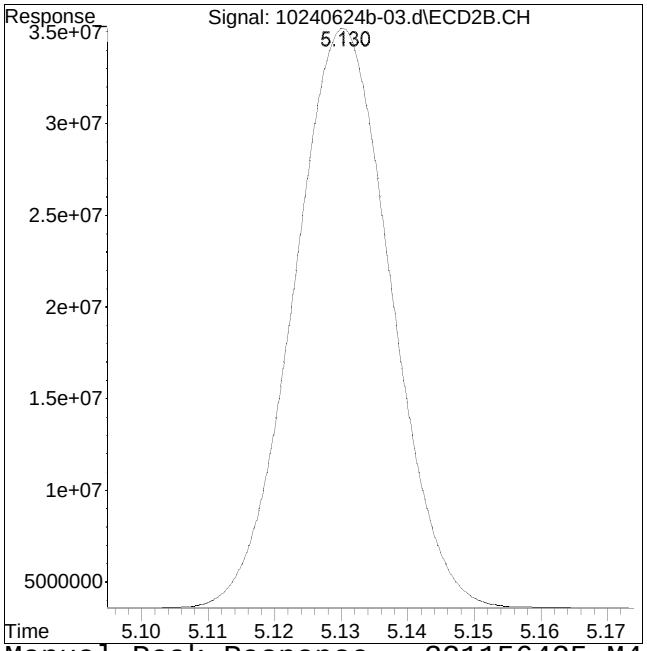
Original Peak Response = 1258231114 Manual Peak Response = 1248667796 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240624QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240624b-03.d Operator : PEST10:mmg
Date Inj'd : 6/24/2024 3:57 pm Instrument : Pest 10
Sample : wg1938709-1,42,,pest11595 Quant Date : 6/24/2024 6:26 pm

Compound #58: Endosulfan II #2



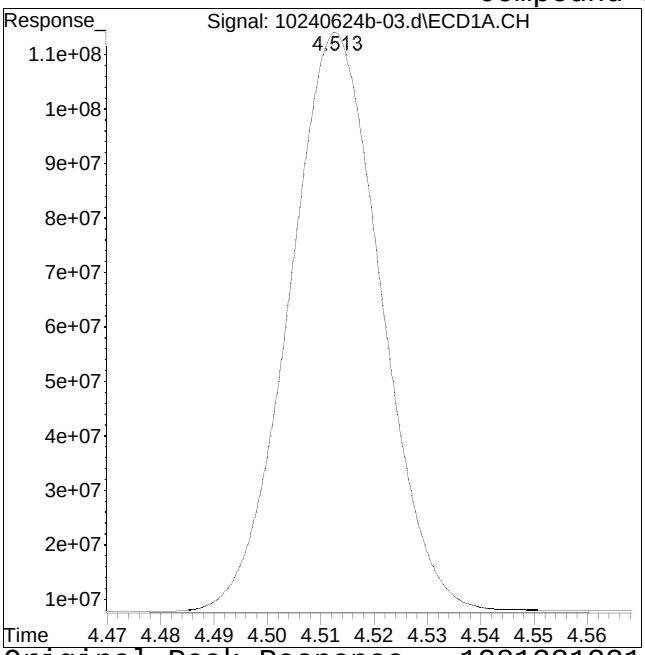


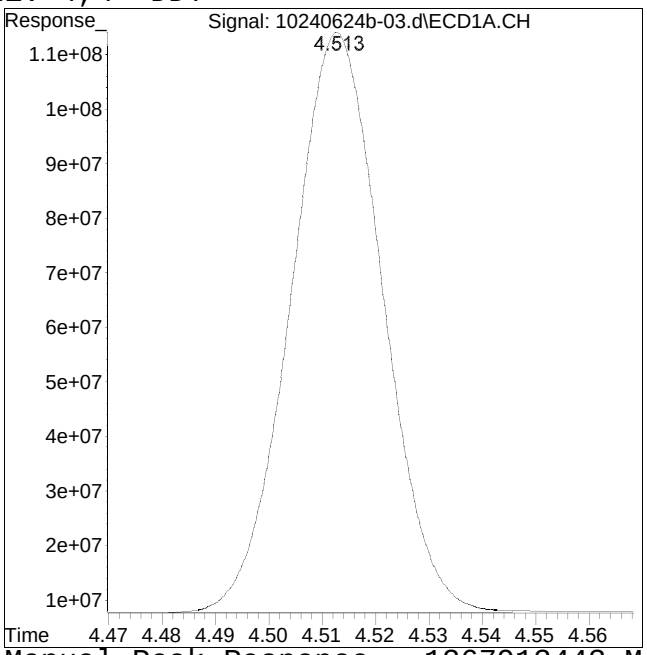
Original Peak Response = 320889152 Manual Peak Response = 321156425 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240624QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240624b-03.d Operator : PEST10:mmg
Date Inj'd : 6/24/2024 3:57 pm Instrument : Pest 10
Sample : wg1938709-1,42,,pest11595 Quant Date : 6/24/2024 6:26 pm

Compound #21: 4,4'-DDT



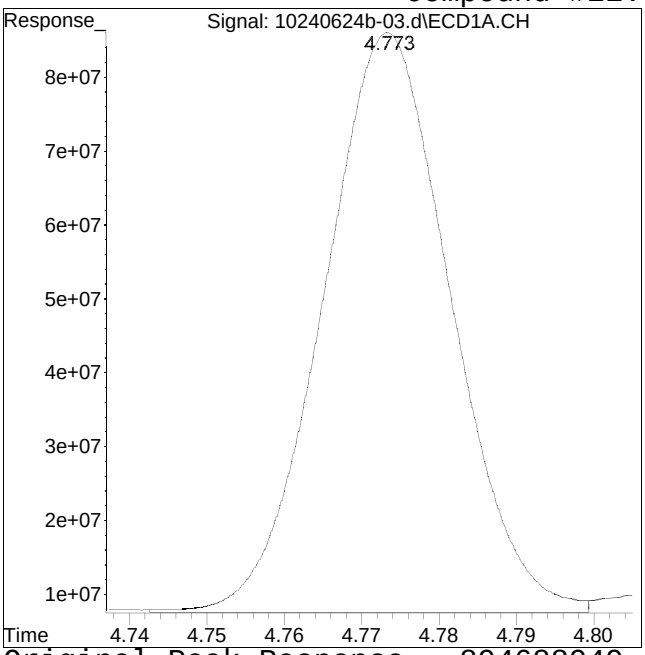


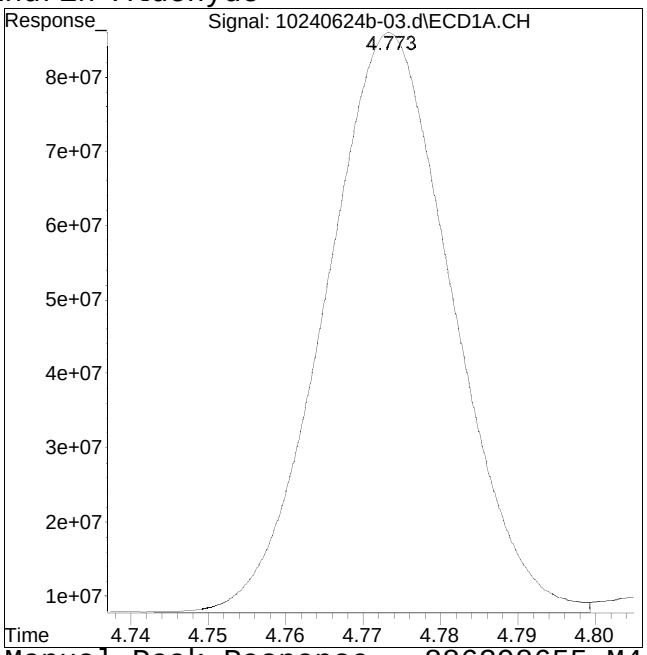
Original Peak Response = 1281331231 Manual Peak Response = 1267913443 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240624QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240624b-03.d Operator : PEST10:mmg
Date Inj'd : 6/24/2024 3:57 pm Instrument : Pest 10
Sample : wg1938709-1,42,,pest11595 Quant Date : 6/24/2024 6:26 pm

Compound #22: Endrin Aldehyde



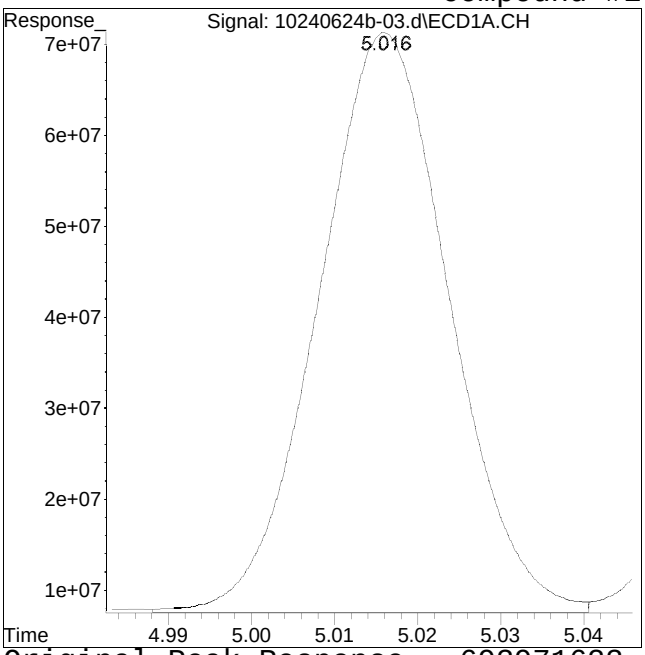


Original Peak Response = 894688949 Manual Peak Response = 886398655 M4
M4 = Poor automated baseline construction.

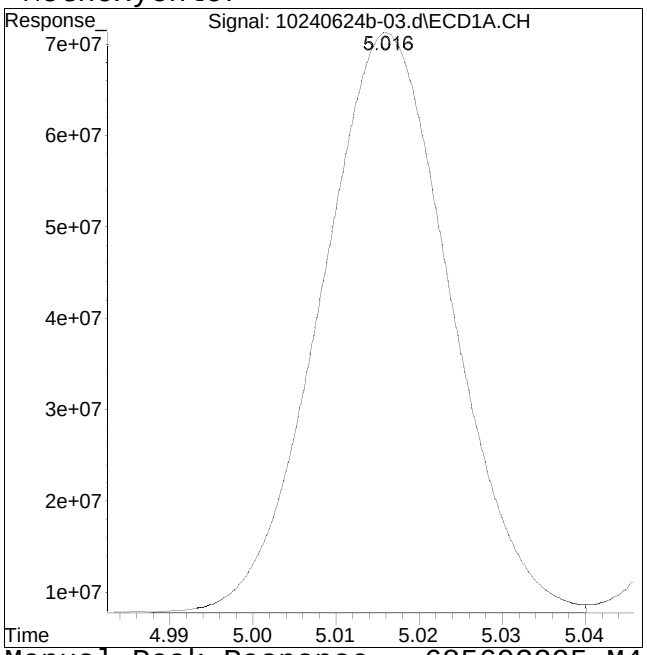
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240624QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240624b-03.d Operator : PEST10:mmg
Date Inj'd : 6/24/2024 3:57 pm Instrument : Pest 10
Sample : wg1938709-1,42,,pest11595 Quant Date : 6/24/2024 6:26 pm

Compound #23: Methoxychlor



Original Peak Response = 693971623



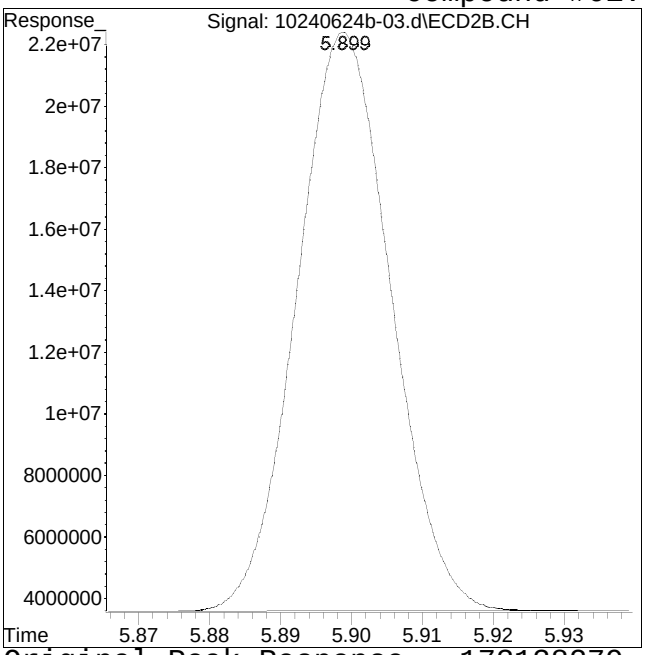
Manual Peak Response = 685693295 M4

M4 = Poor automated baseline construction.

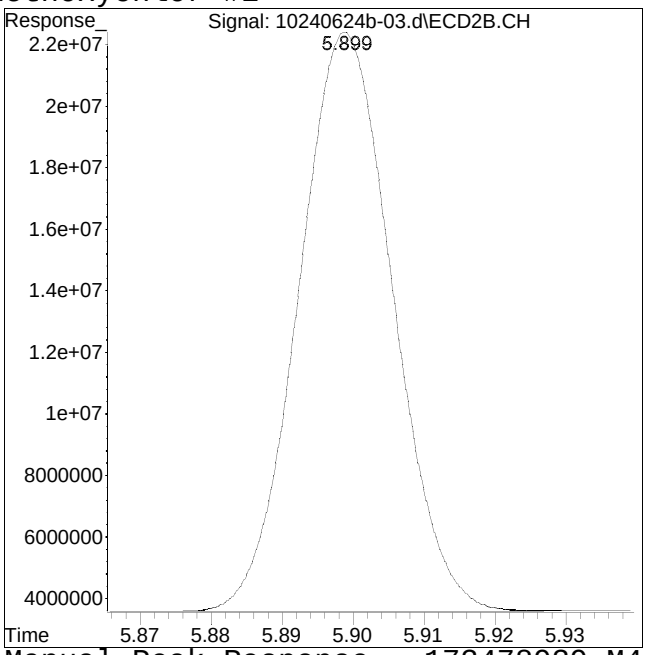
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240624QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240624b-03.d Operator : PEST10:mmg
Date Inj'd : 6/24/2024 3:57 pm Instrument : Pest 10
Sample : wg1938709-1,42,,pest11595 Quant Date : 6/24/2024 6:26 pm

Compound #61: Methoxychlor #2



Original Peak Response = 173138279



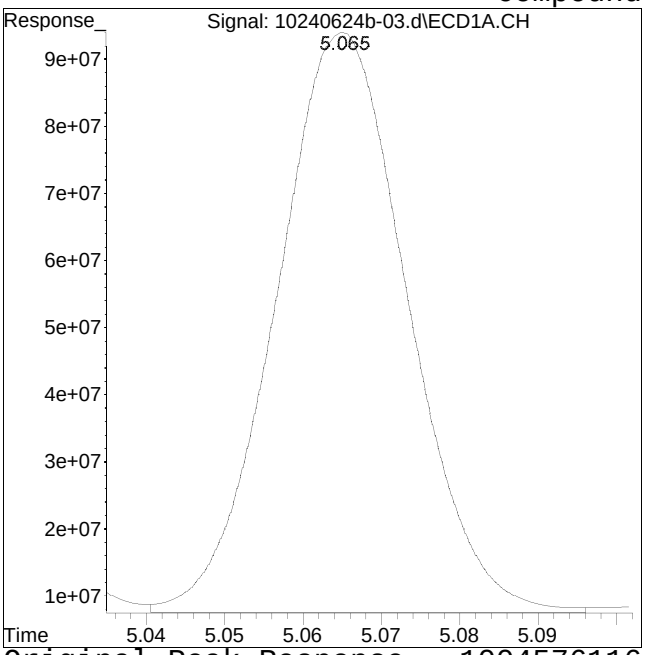
Manual Peak Response = 173478939 M4

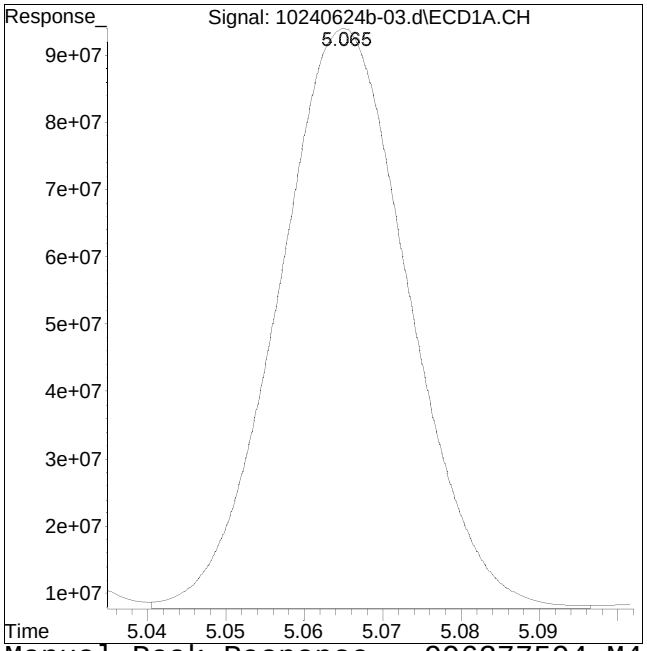
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240624QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240624b-03.d Operator : PEST10:mmg
Date Inj'd : 6/24/2024 3:57 pm Instrument : Pest 10
Sample : wg1938709-1,42,,pest11595 Quant Date : 6/24/2024 6:26 pm

Compound #24: Mirex



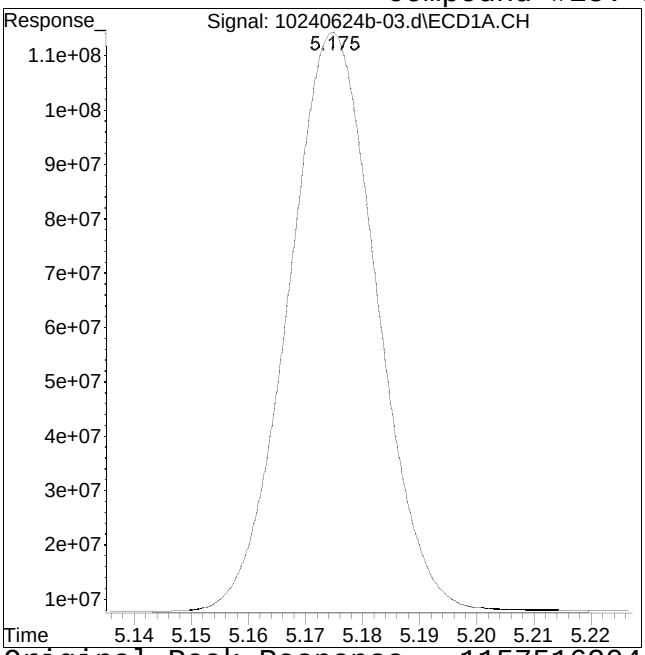


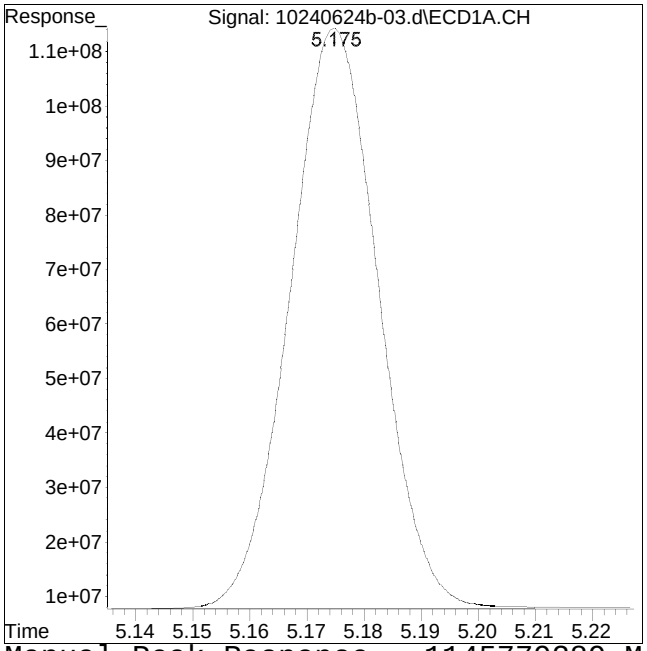
Original Peak Response = 1004576116 Manual Peak Response = 996377594 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240624QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240624b-03.d Operator : PEST10:mmg
Date Inj'd : 6/24/2024 3:57 pm Instrument : Pest 10
Sample : wg1938709-1,42,,pest11595 Quant Date : 6/24/2024 6:26 pm

Compound #25: Endosulfan Sulfate



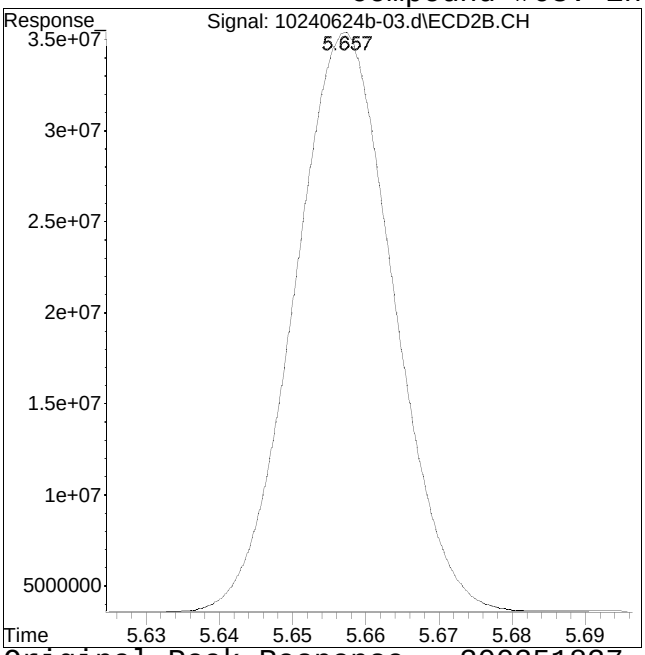


Original Peak Response = 1157516204 Manual Peak Response = 1145779289 M4
M4 = Poor automated baseline construction.

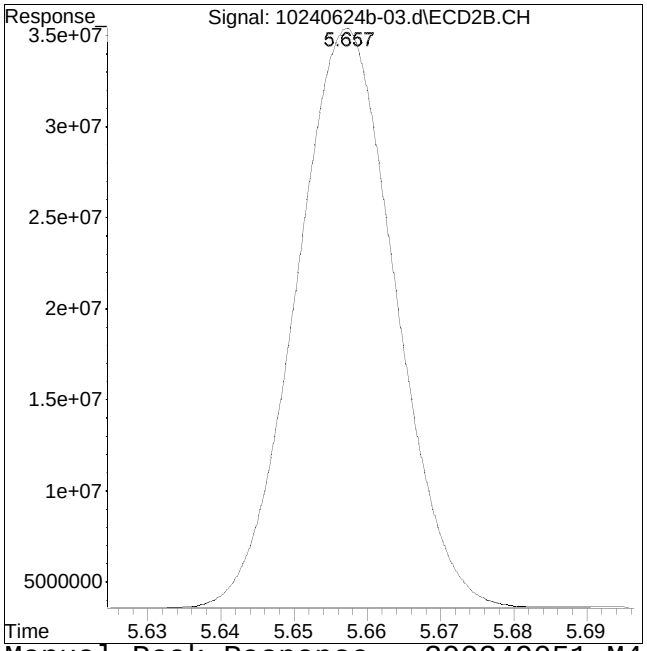
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240624QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240624b-03.d Operator : PEST10:mmg
Date Inj'd : 6/24/2024 3:57 pm Instrument : Pest 10
Sample : wg1938709-1,42,,pest11595 Quant Date : 6/24/2024 6:26 pm

Compound #63: Endosulfan Sulfate #2



Original Peak Response = 300351837

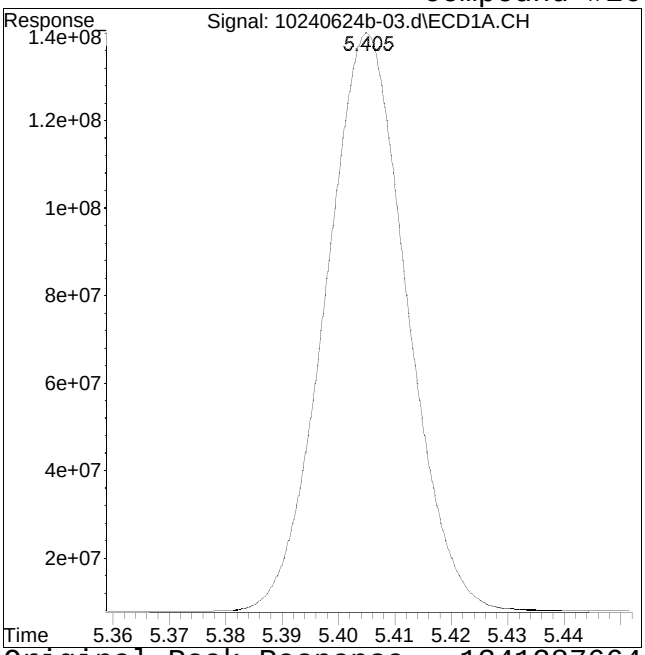


Manual Peak Response = 300349051 M4
M4 = Poor automated baseline construction.

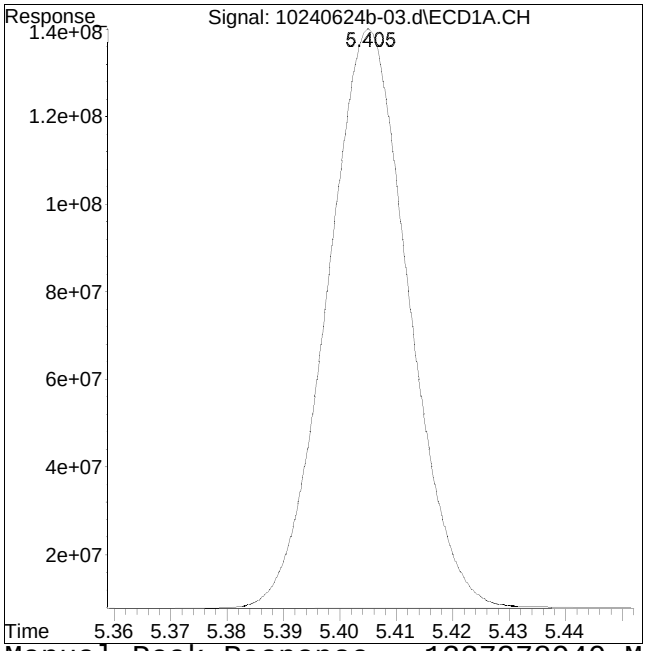
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240624QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240624b-03.d Operator : PEST10:mmg
Date Inj'd : 6/24/2024 3:57 pm Instrument : Pest 10
Sample : wg1938709-1,42,,pest11595 Quant Date : 6/24/2024 6:26 pm

Compound #26: Endrin Ketone



Original Peak Response = 1341287664



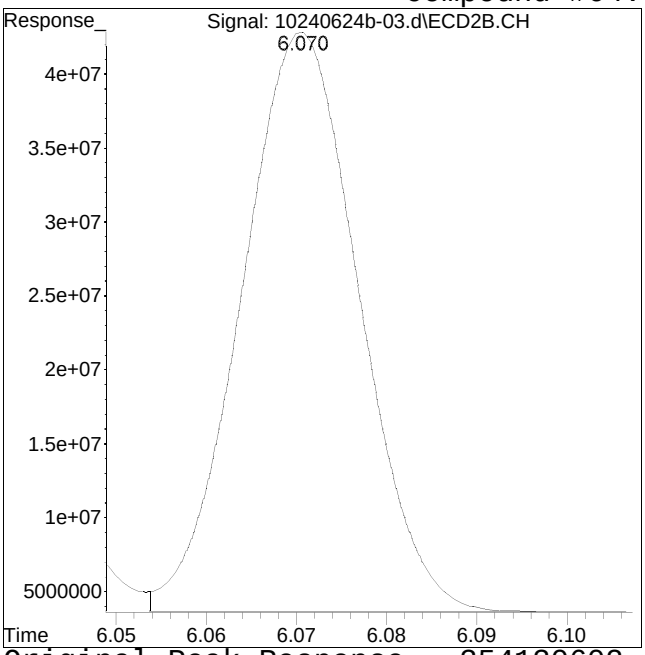
Manual Peak Response = 1327378940 M4

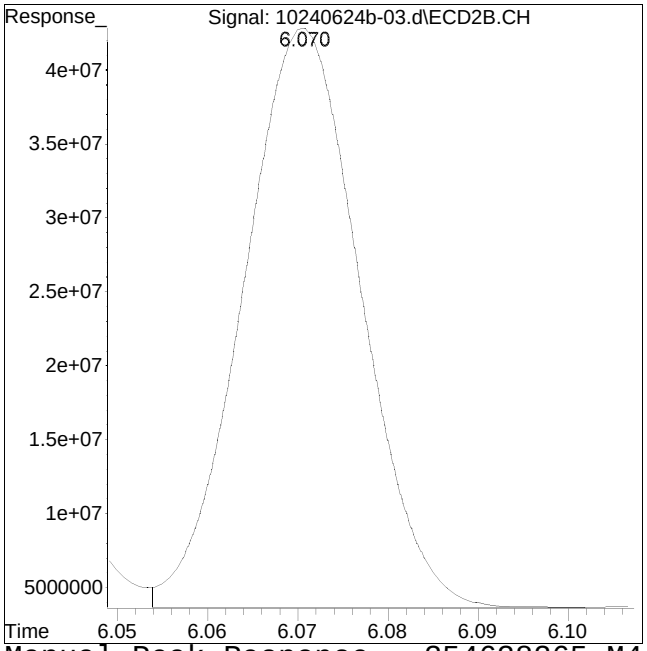
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240624QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240624b-03.d Operator : PEST10:mmg
Date Inj'd : 6/24/2024 3:57 pm Instrument : Pest 10
Sample : wg1938709-1,42,,pest11595 Quant Date : 6/24/2024 6:26 pm

Compound #64: Endrin Ketone #2



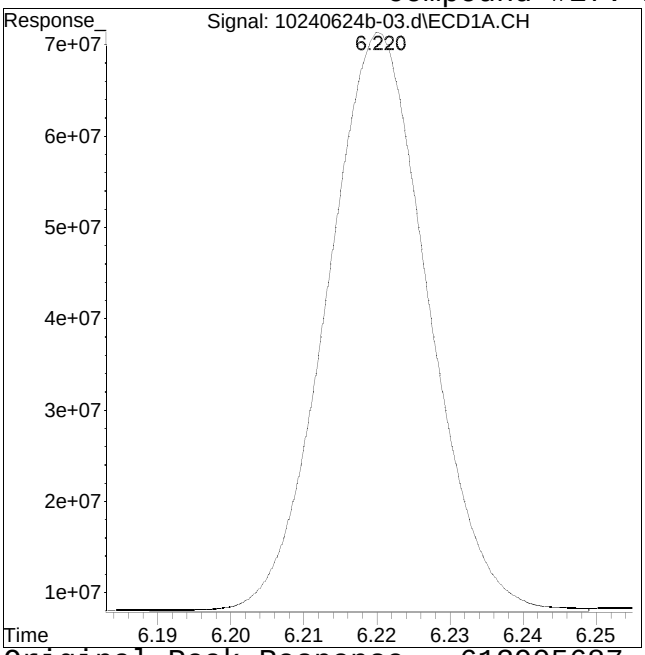


Original Peak Response = 354130602 Manual Peak Response = 354638265 M4
M4 = Poor automated baseline construction.

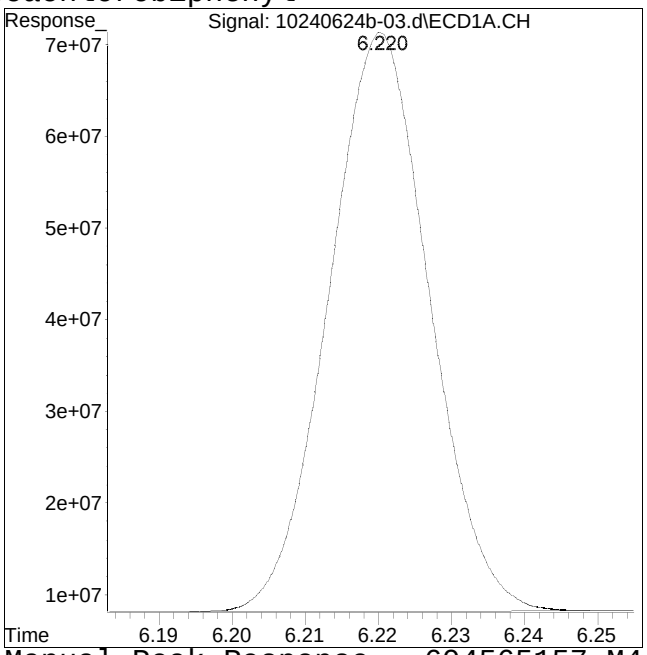
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240624QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240624b-03.d Operator : PEST10:mmg
Date Inj'd : 6/24/2024 3:57 pm Instrument : Pest 10
Sample : wg1938709-1,42,,pest11595 Quant Date : 6/24/2024 6:26 pm

Compound #27: Decachlorobiphenyl



Original Peak Response = 613905687



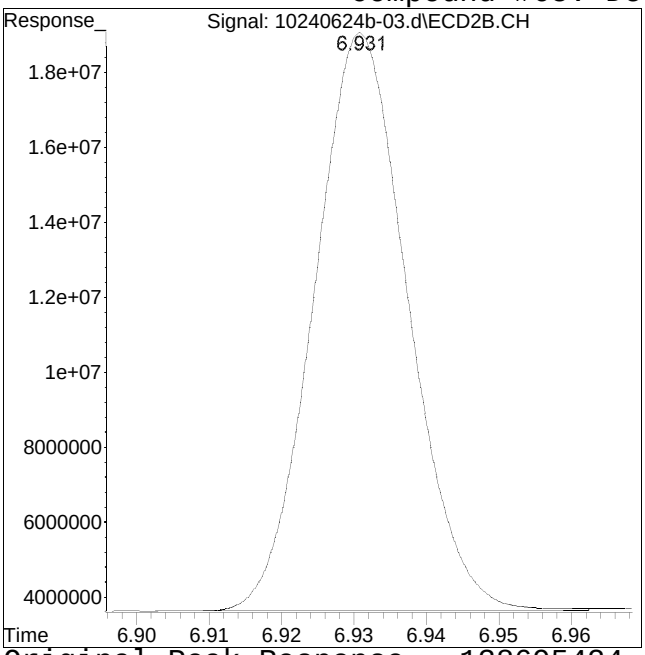
Manual Peak Response = 604565157 M4

M4 = Poor automated baseline construction.

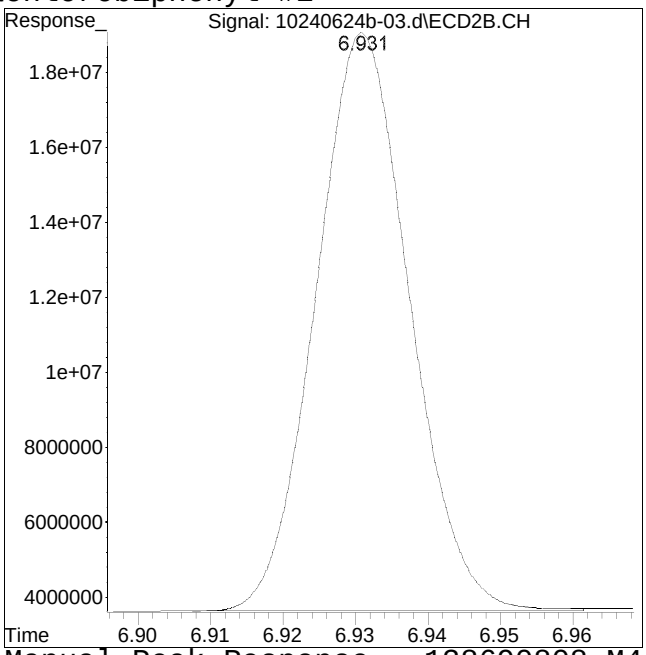
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240624QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240624b-03.d Operator : PEST10:mmg
Date Inj'd : 6/24/2024 3:57 pm Instrument : Pest 10
Sample : wg1938709-1,42,,pest11595 Quant Date : 6/24/2024 6:26 pm

Compound #65: Decachlorobiphenyl #2



Original Peak Response = 138695424



Manual Peak Response = 138690808 M4

M4 = Poor automated baseline construction.

Evaluate Continuing Calibration Report

Data Path : I:\PEST\Pest10\2024\240624B\
Data File : 10240624b-04.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 24 Jun 2024   4:08 pm
Operator : PEST10:mmg
Sample   : wg1938709-2,42,,chlor11612 (Sig #1); chlor11612 (Sig #2)
Misc   : wg1938709,,ical21109
ALS Vial : 4 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 24 18:27:36 2024
Quant Method : I:\PEST\Pest10\2024\240624B\pest10_2024_05_02_ugL_ical21109.m
Quant Title : pest
QLast Update : Mon Jun 24 18:27:28 2024
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
28	i	1-br-2-nb_Chlordane	^	1.000	1.000	0.0	131	0.00
29	l1	chlordane-1		*1000.000	1165.937	-16.6	150	0.00
30	l1	chlordane-3		*1000.000	916.957	8.3	117	0.00
31	l1	chlordane-4		*1000.000	1176.587	-17.7	145	0.00
32	l1	chlordane-5		*1000.000	1195.296	-19.5	153	0.00

Signal #2

28	i	1-br-2-nb_Chlordane	^	1.000	1.000	0.0	105	0.00
29	l1	chlordane-1		*1000.000	1099.804	-10.0	111	0.00
30	l1	chlordane-3		*1000.000	1076.051	-7.6	109	0.00
31	l1	chlordane-4		*1000.000	1084.456	-8.4	110	0.00
32	l1	chlordane-5		*1000.000	1054.529	-5.5	107	0.00

Evaluate Continuing Calibration Report - Not Founds

1	i	1-br-2-nb_Pesticides	^	1.000	1.000	0.0	0	-1.25#
2	s	2,4,5,6-Tetrachloro-m-xylen		1.085	0.000	100.0#	0#	-1.59#
3	t	Hexachlorobenzene		1.160	0.000	100.0#	0#	-1.80#
4	t	alpha-BHC		1.510	0.000	100.0#	0#	-1.89#
5	t	gamma-BHC (lindane)		1.431	0.000	100.0#	0#	-2.09#
6	t	beta-BHC		* 50.000	0.000	100.0#	0	-2.14#
7	t	delta-BHC		1.412	0.000	100.0#	0#	-2.27#
8	t	Heptachlor		1.359	0.000	100.0#	0#	-2.43#
9	t	Aldrin		1.282	0.000	100.0#	0#	-2.66#
10	t	Alachlor		* 50.000	0.000	100.0#	0	-2.78#
11	t	Chlorpyrifos		* 50.000	0.000	100.0#	0	-2.87#
12	t	Heptachlor Epoxide		1.221	0.000	100.0#	0#	-3.20#
13	t	gamma-Chlordane (trans)		1.117	0.000	100.0#	0#	-3.32#

Evaluate Continuing Calibration Report

Data Path : I:\PEST\Pest10\2024\240624B\
Data File : 10240624b-04.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 24 Jun 2024   4:08 pm
Operator : PEST10:mmg
Sample   : wg1938709-2,42,,chlor11612 (Sig #1); chlor11612 (Sig #2)
Misc   : wg1938709,,ical21109
ALS Vial : 4 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 24 18:27:36 2024
Quant Method : I:\PEST\Pest10\2024\240624B\pest10_2024_05_02_ugL_ical21109.m
Quant Title : pest
QLast Update : Mon Jun 24 18:27:28 2024
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
14	t	alpha-Chlordane (cis)		1.269	0.000	100.0#	0#	-3.45#
15	t	4,4'-DDE		1.202	0.000	100.0#	0#	-3.55#
16	t	Endosulfan I		1.163	0.000	100.0#	0#	-3.58#
17	t	Dieldrin		1.200	0.000	100.0#	0#	-3.84#
18	t	Endrin		1.233	0.000	100.0#	0#	-4.09#
19	t	4,4'-DDD		0.977	0.000	100.0#	0#	-4.21#
20	t	Endosulfan II		1.064	0.000	100.0#	0#	-4.34#
21	t	4,4'-DDT		1.081	0.000	100.0#	0#	-4.51#
22	t	Endrin Aldehyde	*	50.000	0.000	100.0#	0	-4.77#
23	t	Methoxychlor	*	50.000	0.000	100.0#	0	-5.02#
24	t	Mirex	*	50.000	0.000	100.0#	0	-5.07#
25	t	Endosulfan Sulfate		1.055	0.000	100.0#	0#	-5.17#
26	t	Endrin Ketone		1.157	0.000	100.0#	0#	-5.40#
27	s	Decachlorobiphenyl	*	50.000	0.000	100.0#	0	-6.22#
33	i	1-br-2-nb_Toxaphene	^	1.000	1.000	0.0	0	-1.25#
34	l2	toxaphene-1	*	2000.000	0.000	100.0#	0	-4.34#
35	l2	toxaphene-2	*	2000.000	0.000	100.0#	0	-4.46#
36	l2	toxaphene-4	*	2000.000	0.000	100.0#	0	-4.89#
37	l2	toxaphene-5	*	2000.000	0.000	100.0#	0	-5.08#

Signal #2

1	i	1-br-2-nb_Pesticides	^	1.000	1.000	0.0	0	-1.37#
2	s	2,4,5,6-Tetrachloro-m-xyl		0.940	0.000	100.0#	0#	-1.85#
3	t	Hexachlorobenzene		1.080	0.000	100.0#	0#	-2.17#
4	t	alpha-BHC		1.339	0.000	100.0#	0#	-2.26#
5	t	gamma-BHC (lindane)		1.257	0.000	100.0#	0#	-2.55#
6	t	beta-BHC	*	50.000	0.000	100.0#	0	-2.62#
7	t	delta-BHC		1.262	0.000	100.0#	0#	-2.88#

Evaluate Continuing Calibration Report

Data Path : I:\PEST\Pest10\2024\240624B\
Data File : 10240624b-04.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 24 Jun 2024   4:08 pm
Operator : PEST10:mmg
Sample   : wg1938709-2,42,,chlor11612 (Sig #1); chlor11612 (Sig #2)
Misc   : wg1938709,,ical21109
ALS Vial : 4 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 24 18:27:36 2024
Quant Method : I:\PEST\Pest10\2024\240624B\pest10_2024_05_02_ugL_ical21109.m
Quant Title : pest
QLast Update : Mon Jun 24 18:27:28 2024
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
8	t	Heptachlor		1.248	0.000	100.0#	0#	-2.95#
9	t	Aldrin		1.137	0.000	100.0#	0#	-3.27#
10	t	Alachlor	*	50.000	0.000	100.0#	0	-3.15#
11	t	Chlorpyrifos	*	50.000	0.000	100.0#	0	-3.51#
12	t	Heptachlor Epoxide		1.137	0.000	100.0#	0#	-3.89#
13	t	gamma-Chlordane (trans)		1.011	0.000	100.0#	0#	-4.11#
14	t	alpha-Chlordane (cis)		1.137	0.000	100.0#	0#	-4.28#
15	t	4,4'-DDE		1.052	0.000	100.0#	0#	-4.48#
16	t	Endosulfan I		1.058	0.000	100.0#	0#	-4.34#
17	t	Dieldrin		1.059	0.000	100.0#	0#	-4.63#
18	t	Endrin		1.086	0.000	100.0#	0#	-4.93#
19	t	4,4'-DDD		0.846	0.000	100.0#	0#	-5.05#
20	t	Endosulfan II		0.951	0.000	100.0#	0#	-5.13#
21	t	4,4'-DDT		0.960	0.000	100.0#	0#	-5.33#
22	t	Endrin Aldehyde	*	50.000	0.000	100.0#	0	-5.43#
23	t	Methoxychlor	*	50.000	0.000	100.0#	0	-5.90#
24	t	Mirex	*	50.000	0.000	100.0#	0	-6.04#
25	t	Endosulfan Sulfate		0.948	0.000	100.0#	0#	-5.66#
26	t	Endrin Ketone		1.033	0.000	100.0#	0#	-6.07#
27	s	Decachlorobiphenyl	*	50.000	0.000	100.0#	0	-6.93#
33	i	1-br-2-nb_Toxaphene	^	1.000	1.000	0.0	0	-1.37#
34	l2	toxaphene-1	*	2000.000	0.000	100.0#	0	-5.09#
35	l2	toxaphene-2	*	2000.000	0.000	100.0#	0	-5.12#
36	l2	toxaphene-4	*	2000.000	0.000	100.0#	0	-5.44#
37	l2	toxaphene-5	*	2000.000	0.000	100.0#	0	-5.85#

* Evaluation of CC level amount vs concentration.
(#) = Out of Range SPCC's out = 0 CCC's out = 0
(^) = ISTD area calculated using ICAL average

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest10\2024\240624B\
Data File : 10240624b-04.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 24 Jun 2024 4:08 pm
Operator : PEST10:mmg
Sample : wg1938709-2,42,,chlor11612 (Sig #1); chlor11612 (Sig #2)
Misc : wg1938709,,ical21109
ALS Vial : 4 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 24 18:27:36 2024
Quant Method : I:\PEST\Pest10\2024\240624B\pest10_2024_05_02_ugL_ical21109.m
Quant Title : pest
QLast Update : Mon Jun 24 18:27:28 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	0.000	0.000	0	0	N.D. d	N.D. d
28) i	1-br-2-nb_Ch	1.251	1.365	493.4E6	150.7E6	25.000M4	25.000M2
33) i	1-br-2-nb_To	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150		Recovery =	0.00%#	0.00%#
27) s	Decachlorobi	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150		Recovery =	0.00%#	0.00%#
	Target Compounds						
3) t	Hexachlorobe	0.000	0.000	0	0	N.D. d	N.D. d
4) t	alpha-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5) t	gamma-BHC (l	0.000	0.000	0	0	N.D. d	N.D. d
6) t	beta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7) t	delta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
8) t	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
9) t	Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
10) t	Alachlor	0.000	0.000	0	0	N.D. d	N.D. d
11) t	Chlorpyrifos	0.000	0.000	0	0	N.D. d	N.D. d
12) t	Heptachlor E	0.000	0.000	0	0	N.D. d	N.D. d
13) t	gamma-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
14) t	alpha-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
15) t	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
16) t	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
17) t	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
18) t	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
19) t	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
20) t	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
21) t	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
22) t	Endrin Aldeh	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest10\2024\240624B\
Data File : 10240624b-04.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 24 Jun 2024 4:08 pm
Operator : PEST10:mmg
Sample : wg1938709-2,42,,chlor11612 (Sig #1); chlor11612 (Sig #2)
Misc : wg1938709,,ical21109
ALS Vial : 4 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 24 18:27:36 2024
Quant Method : I:\PEST\Pest10\2024\240624B\pest10_2024_05_02_ugL_ical21109.m
Quant Title : pest
QLast Update : Mon Jun 24 18:27:28 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l	
23) t	Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d	
24) t	Mirex	0.000	0.000	0	0	N.D. d	N.D. d	
25) t	Endosulfan S	0.000	0.000	0	0	N.D. d	N.D. d	
26) t	Endrin Keton	0.000	0.000	0	0	N.D. d	N.D. d	
29) l1	chlordane-1	2.368	2.813	826.4E6	212.9E6	1165.937	1099.804	
30) l1	chlordane-3	2.429	3.420	1310.6E6	242.5E6	916.957	1076.051	
31) l1	chlordane-4	2.776	4.106	953.7E6	859.2E6	1176.587	1084.456	
32) l1	chlordane-5	3.321	4.278	3699.1E6	655.0E6	1195.296	1054.529	
Sum	chlordane-1			6789.8E6	1969.5E6	N.D.	N.D.	D
Average	chlordane-1					1113.694	1078.710	
34) l2	toxaphene-1	0.000	0.000	0	0	N.D. d	N.D. d	
35) l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d	
36) l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d	
37) l2	toxaphene-5	0.000	0.000	0	0	N.D. d	N.D. d	
Sum	toxaphene-1			0	0	N.D.	N.D.	
Average	toxaphene-1					0.000	0.000	

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	toxaphene-1			0	0	N.D.	N.D.	
Average	toxaphene-1					0.000	0.000	

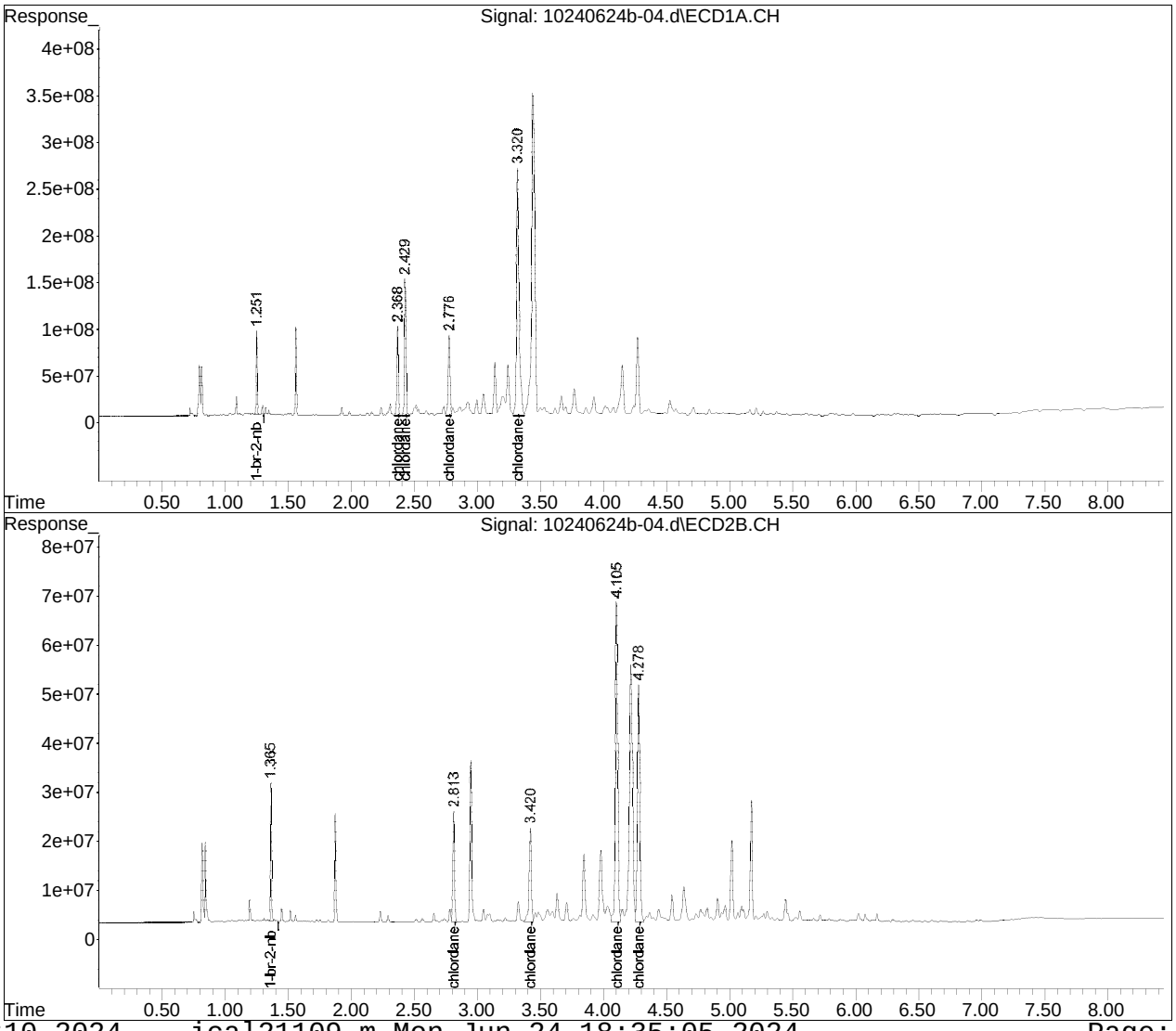
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest10\2024\240624B\
Data File : 10240624b-04.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 24 Jun 2024 4:08 pm
Operator : PEST10:mmg
Sample : wg1938709-2,42,,chlor11612 (Sig #1); chlor11612 (Sig #2)
Misc : wg1938709,,ical21109
ALS Vial : 4 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 24 18:27:36 2024
Quant Method : I:\PEST\Pest10\2024\240624B\pest10_2024_05_02_ugL_ical21109.m
Quant Title : pest
QLast Update : Mon Jun 24 18:27:28 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

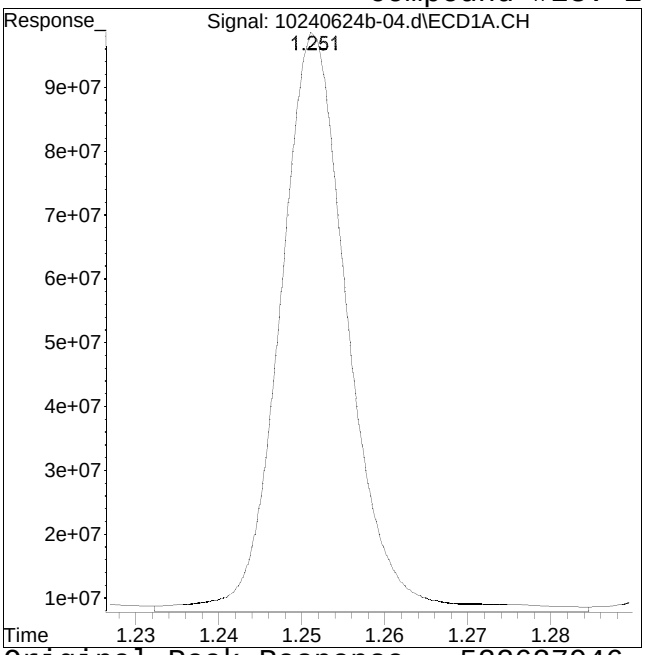
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

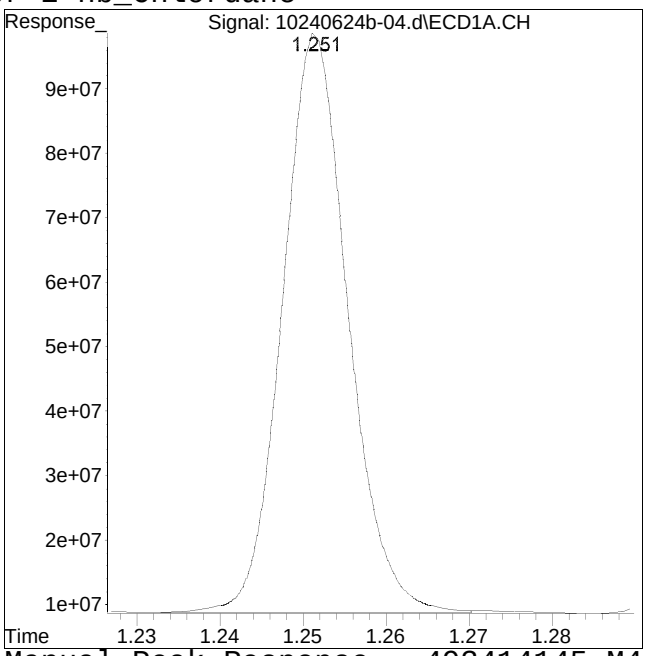


Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240624QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240624b-04.d Operator : PEST10:mmg
Date Inj'd : 6/24/2024 4:08 pm Instrument : Pest 10
Sample : wg1938709-2,42,,chlor11612Quant Date : 6/24/2024 6:27 pm

Compound #28: 1-br-2-nb_Chlordane



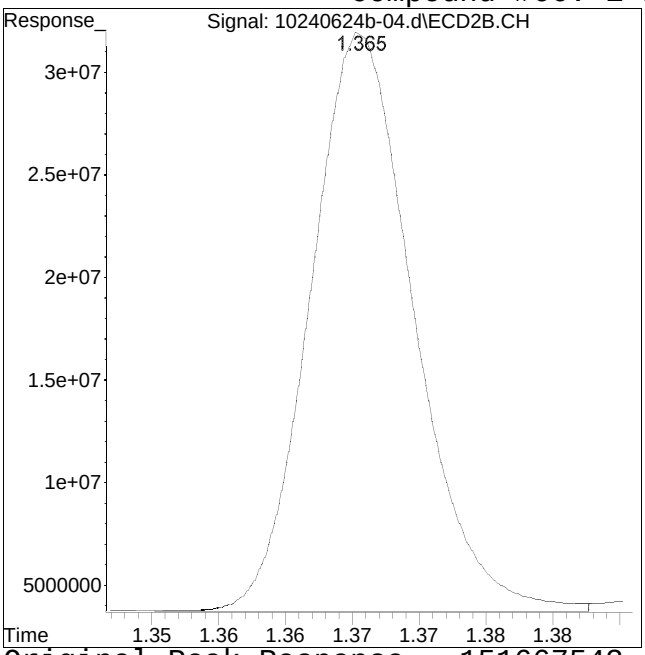


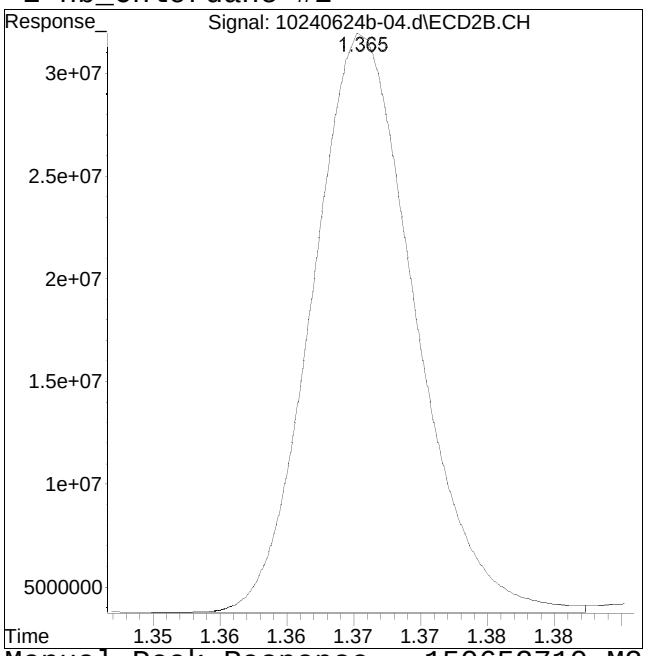
Original Peak Response = 522627946 Manual Peak Response = 493414145 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240624QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240624b-04.d Operator : PEST10:mmg
Date Inj'd : 6/24/2024 4:08 pm Instrument : Pest 10
Sample : wg1938709-2,42,,chlor11612Quant Date : 6/24/2024 6:27 pm

Compound #66: 1-br-2-nb_Chlordane #2





Original Peak Response = 151667543 Manual Peak Response = 150652710 M2
M2 = Peak not found by automatic integration algorithm.

Evaluate Continuing Calibration Report

Data Path : I:\PEST\Pest10\2024\240624B\
Data File : 10240624b-05.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 24 Jun 2024   4:19 pm
Operator : PEST10:mmg
Sample   : wg1938709-3,42,,tox11615 (Sig #1); tox11615 (Sig #2)
Misc   : wg1938709,,ical21109
ALS Vial : 5 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 24 18:31:02 2024
Quant Method : I:\PEST\Pest10\2024\240624B\pest10_2024_05_02_ugL_ical21109.m
Quant Title : pest
QLast Update : Mon Jun 24 18:30:52 2024
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
33	i	1-br-2-nb_Toxaphene	^	1.000	1.000	0.0	137	0.00
34	l2	toxaphene-1		*2000.000	2417.599	-20.9#	166	0.00
35	l2	toxaphene-2		*2000.000	2335.273	-16.8	161	0.00
36	l2	toxaphene-4		*2000.000	2596.588	-29.8#	178	0.00
37	l2	toxaphene-5		*2000.000	2424.775	-21.2#	167	0.00

Signal #2

33	i	1-br-2-nb_Toxaphene	^	1.000	1.000	0.0	112	0.00
34	l2	toxaphene-1		*2000.000	2237.805	-11.9	126	0.00
35	l2	toxaphene-2		*2000.000	2284.916	-14.2	130	0.00
36	l2	toxaphene-4		*2000.000	2140.119	-7.0	122	0.00
37	l2	toxaphene-5		*2000.000	2276.082	-13.8	130	0.00

Evaluate Continuing Calibration Report - Not Founds

1	i	1-br-2-nb_Pesticides	^	1.000	1.000	0.0	0	-1.25#
2	s	2,4,5,6-Tetrachloro-m-xylen		1.085	0.000	100.0#	0#	-1.59#
3	t	Hexachlorobenzene		1.160	0.000	100.0#	0#	-1.80#
4	t	alpha-BHC		1.510	0.000	100.0#	0#	-1.89#
5	t	gamma-BHC (lindane)		1.431	0.000	100.0#	0#	-2.09#
6	t	beta-BHC		* 50.000	0.000	100.0#	0	-2.14#
7	t	delta-BHC		1.412	0.000	100.0#	0#	-2.27#
8	t	Heptachlor		1.359	0.000	100.0#	0#	-2.43#
9	t	Aldrin		1.282	0.000	100.0#	0#	-2.66#
10	t	Alachlor		* 50.000	0.000	100.0#	0	-2.78#
11	t	Chlorpyrifos		* 50.000	0.000	100.0#	0	-2.87#
12	t	Heptachlor Epoxide		1.221	0.000	100.0#	0#	-3.20#
13	t	gamma-Chlordane (trans)		1.117	0.000	100.0#	0#	-3.32#

Evaluate Continuing Calibration Report

Data Path : I:\PEST\Pest10\2024\240624B\
Data File : 10240624b-05.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 24 Jun 2024   4:19 pm
Operator : PEST10:mmg
Sample   : wg1938709-3,42,,tox11615 (Sig #1); tox11615 (Sig #2)
Misc   : wg1938709,,ical21109
ALS Vial : 5 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 24 18:31:02 2024
Quant Method : I:\PEST\Pest10\2024\240624B\pest10_2024_05_02_ugL_ical21109.m
Quant Title : pest
QLast Update : Mon Jun 24 18:30:52 2024
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
14	t	alpha-Chlordane (cis)		1.269	0.000	100.0#	0#	-3.45#
15	t	4,4'-DDE		1.202	0.000	100.0#	0#	-3.55#
16	t	Endosulfan I		1.163	0.000	100.0#	0#	-3.58#
17	t	Dieldrin		1.200	0.000	100.0#	0#	-3.84#
18	t	Endrin		1.233	0.000	100.0#	0#	-4.09#
19	t	4,4'-DDD		0.977	0.000	100.0#	0#	-4.21#
20	t	Endosulfan II		1.064	0.000	100.0#	0#	-4.34#
21	t	4,4'-DDT		1.081	0.000	100.0#	0#	-4.51#
22	t	Endrin Aldehyde	*	50.000	0.000	100.0#	0	-4.77#
23	t	Methoxychlor	*	50.000	0.000	100.0#	0	-5.02#
24	t	Mirex	*	50.000	0.000	100.0#	0	-5.07#
25	t	Endosulfan Sulfate		1.055	0.000	100.0#	0#	-5.17#
26	t	Endrin Ketone		1.157	0.000	100.0#	0#	-5.40#
27	s	Decachlorobiphenyl	*	50.000	0.000	100.0#	0	-6.22#
28	i	1-br-2-nb_Chlordane	^	1.000	1.000	0.0	0	-1.25#
29	l1	chlordane-1	*	1000.000	0.000	100.0#	0	-2.37#
30	l1	chlordane-3	*	1000.000	0.000	100.0#	0	-2.43#
31	l1	chlordane-4	*	1000.000	0.000	100.0#	0	-2.78#
32	l1	chlordane-5	*	1000.000	0.000	100.0#	0	-3.32#

Signal #2

1	i	1-br-2-nb_Pesticides	^	1.000	1.000	0.0	0	-1.37#
2	s	2,4,5,6-Tetrachloro-m-xyl		0.940	0.000	100.0#	0#	-1.85#
3	t	Hexachlorobenzene		1.080	0.000	100.0#	0#	-2.17#
4	t	alpha-BHC		1.339	0.000	100.0#	0#	-2.26#
5	t	gamma-BHC (lindane)		1.257	0.000	100.0#	0#	-2.55#
6	t	beta-BHC	*	50.000	0.000	100.0#	0	-2.62#
7	t	delta-BHC		1.262	0.000	100.0#	0#	-2.88#

Evaluate Continuing Calibration Report

Data Path : I:\PEST\Pest10\2024\240624B\
Data File : 10240624b-05.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 24 Jun 2024   4:19 pm
Operator : PEST10:mmg
Sample   : wg1938709-3,42,,tox11615 (Sig #1); tox11615 (Sig #2)
Misc   : wg1938709,,ical21109
ALS Vial : 5 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 24 18:31:02 2024
Quant Method : I:\PEST\Pest10\2024\240624B\pest10_2024_05_02_ugL_ical21109.m
Quant Title : pest
QLast Update : Mon Jun 24 18:30:52 2024
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
8	t	Heptachlor		1.248	0.000	100.0#	0#	-2.95#
9	t	Aldrin		1.137	0.000	100.0#	0#	-3.27#
10	t	Alachlor	*	50.000	0.000	100.0#	0	-3.15#
11	t	Chlorpyrifos	*	50.000	0.000	100.0#	0	-3.51#
12	t	Heptachlor Epoxide		1.137	0.000	100.0#	0#	-3.89#
13	t	gamma-Chlordane (trans)		1.011	0.000	100.0#	0#	-4.11#
14	t	alpha-Chlordane (cis)		1.137	0.000	100.0#	0#	-4.28#
15	t	4,4'-DDE		1.052	0.000	100.0#	0#	-4.48#
16	t	Endosulfan I		1.058	0.000	100.0#	0#	-4.34#
17	t	Dieldrin		1.059	0.000	100.0#	0#	-4.63#
18	t	Endrin		1.086	0.000	100.0#	0#	-4.93#
19	t	4,4'-DDD		0.846	0.000	100.0#	0#	-5.05#
20	t	Endosulfan II		0.951	0.000	100.0#	0#	-5.13#
21	t	4,4'-DDT		0.960	0.000	100.0#	0#	-5.33#
22	t	Endrin Aldehyde	*	50.000	0.000	100.0#	0	-5.43#
23	t	Methoxychlor	*	50.000	0.000	100.0#	0	-5.90#
24	t	Mirex	*	50.000	0.000	100.0#	0	-6.04#
25	t	Endosulfan Sulfate		0.948	0.000	100.0#	0#	-5.66#
26	t	Endrin Ketone		1.033	0.000	100.0#	0#	-6.07#
27	s	Decachlorobiphenyl	*	50.000	0.000	100.0#	0	-6.93#
28	i	1-br-2-nb_Chlordane	^	1.000	1.000	0.0	0	-1.37#
29	l1	chlordane-1	*	1000.000	0.000	100.0#	0	-2.81#
30	l1	chlordane-3	*	1000.000	0.000	100.0#	0	-3.42#
31	l1	chlordane-4	*	1000.000	0.000	100.0#	0	-4.11#
32	l1	chlordane-5	*	1000.000	0.000	100.0#	0	-4.28#

* Evaluation of CC level amount vs concentration.
(#) = Out of Range SPCC's out = 0 CCC's out = 0
(^) = ISTD area calculated using ICAL average

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest10\2024\240624B\
Data File : 10240624b-05.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 24 Jun 2024 4:19 pm
Operator : PEST10:mmg
Sample : wg1938709-3,42,,tox11615 (Sig #1); tox11615 (Sig #2)
Misc : wg1938709,,ical21109
ALS Vial : 5 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 24 18:31:02 2024
Quant Method : I:\PEST\Pest10\2024\240624B\pest10_2024_05_02_ugL_ical21109.m
Quant Title : pest
QLast Update : Mon Jun 24 18:30:52 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	0.000	0.000	0	0	N.D. d	N.D. d
28) i	1-br-2-nb_Ch	0.000	0.000	0	0	N.D. d	N.D. d
33) i	1-br-2-nb_To	1.251	1.366	521.4E6	148.0E6	25.000M4	25.000M4
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150		Recovery =	0.00%#	0.00%#
27) s	Decachlorobi	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150		Recovery =	0.00%#	0.00%#
	Target Compounds						
3) t	Hexachlorobe	0.000	0.000	0	0	N.D. d	N.D. d
4) t	alpha-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5) t	gamma-BHC (l	0.000	0.000	0	0	N.D. d	N.D. d
6) t	beta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7) t	delta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
8) t	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
9) t	Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
10) t	Alachlor	0.000	0.000	0	0	N.D. d	N.D. d
11) t	Chlorpyrifos	0.000	0.000	0	0	N.D. d	N.D. d
12) t	Heptachlor E	0.000	0.000	0	0	N.D. d	N.D. d
13) t	gamma-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
14) t	alpha-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
15) t	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
16) t	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
17) t	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
18) t	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
19) t	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
20) t	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
21) t	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
22) t	Endrin Aldeh	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\PEST\Pest10\2024\240624B\
Data File : 10240624b-05.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 24 Jun 2024 4:19 pm
Operator : PEST10:mmg
Sample : wg1938709-3,42,,tox11615 (Sig #1); tox11615 (Sig #2)
Misc : wg1938709,,ical21109
ALS Vial : 5 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 24 18:31:02 2024
Quant Method : I:\PEST\Pest10\2024\240624B\pest10_2024_05_02_ugL_ical21109.m
Quant Title : pest
QLast Update : Mon Jun 24 18:30:52 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
23) t	Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d
24) t	Mirex	0.000	0.000	0	0	N.D. d	N.D. d
25) t	Endosulfan S	0.000	0.000	0	0	N.D. d	N.D. d
26) t	Endrin Keton	0.000	0.000	0	0	N.D. d	N.D. d
29) l1	chlordane-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l1	chlordane-3	0.000	0.000	0	0	N.D. d	N.D. d
31) l1	chlordane-4	0.000	0.000	0	0	N.D. d	N.D. d
32) l1	chlordane-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	chlordane-1			0	0	N.D.	N.D.
Average	chlordane-1					0.000	0.000
34) l2	toxaphene-1	4.335	5.090	1979.0E6	267.6E6	2417.599	2237.805M3
35) l2	toxaphene-2	4.463	5.118	1803.2E6	408.7E6	2335.273	2284.916M3
36) l2	toxaphene-4	4.890	5.437	1740.6E6	458.8E6	2596.588	2140.119
37) l2	toxaphene-5	5.079	5.847	1902.7E6	446.7E6	2424.775	2276.082
Sum	toxaphene-1			7425.6E6	1581.8E6	9774.235	8938.922
Average	toxaphene-1					2443.559	2234.730

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	toxaphene-1			7425.6E6	1581.8E6	9774.235	8938.922
Average	toxaphene-1					2443.559	2234.730

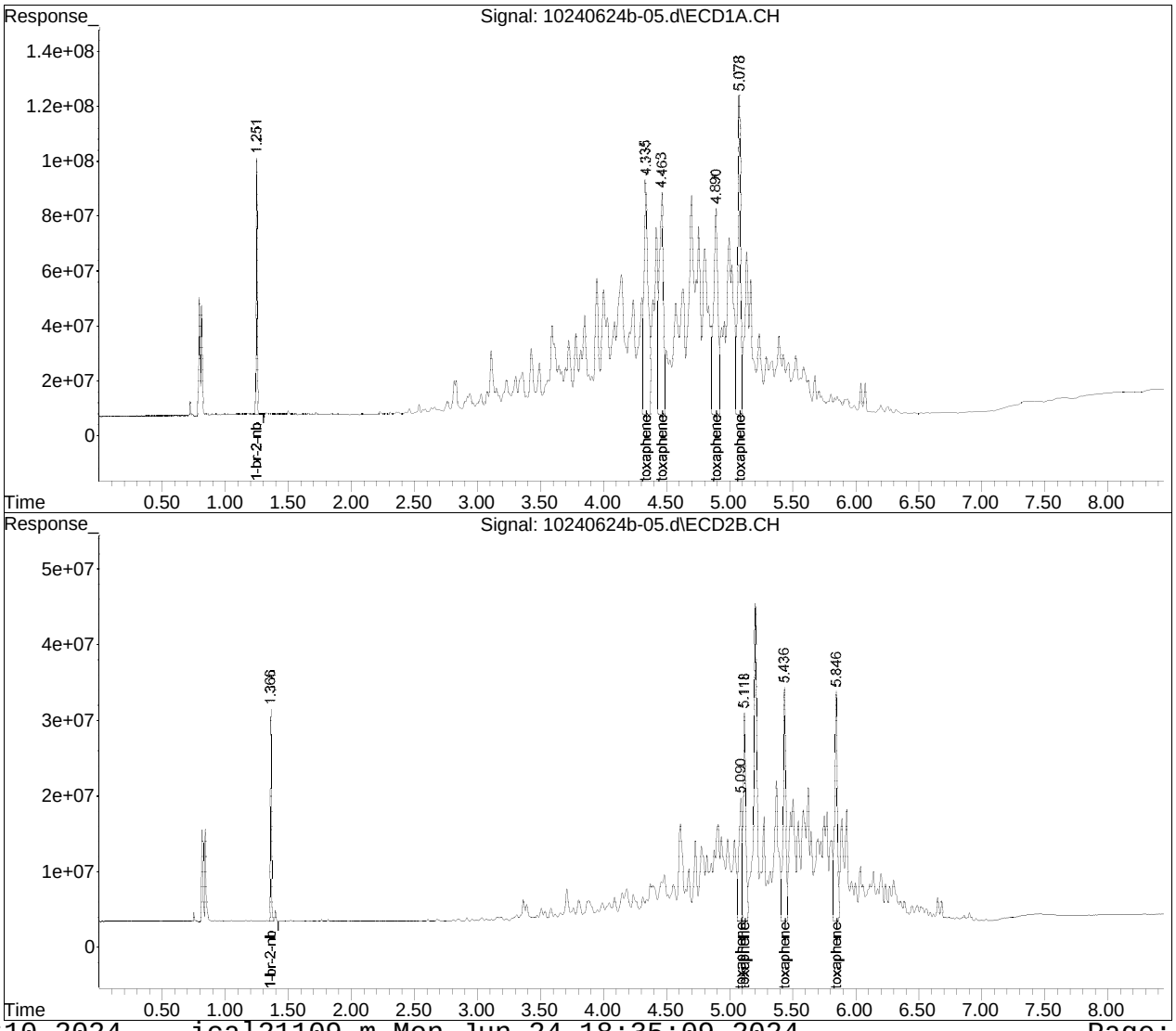
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest10\2024\240624B\
Data File : 10240624b-05.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 24 Jun 2024 4:19 pm
Operator : PEST10:mmg
Sample : wg1938709-3,42,,tox11615 (Sig #1); tox11615 (Sig #2)
Misc : wg1938709,,ical21109
ALS Vial : 5 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 24 18:31:02 2024
Quant Method : I:\PEST\Pest10\2024\240624B\pest10_2024_05_02_ugL_ical21109.m
Quant Title : pest
QLast Update : Mon Jun 24 18:30:52 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

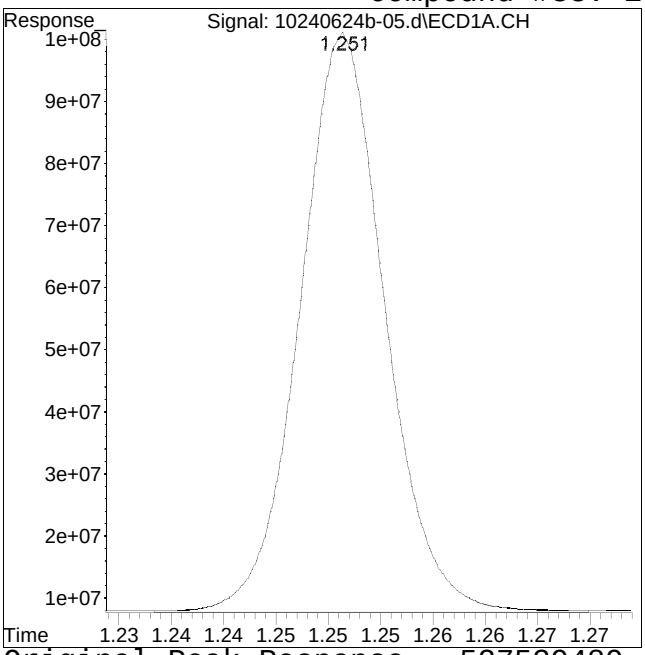
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

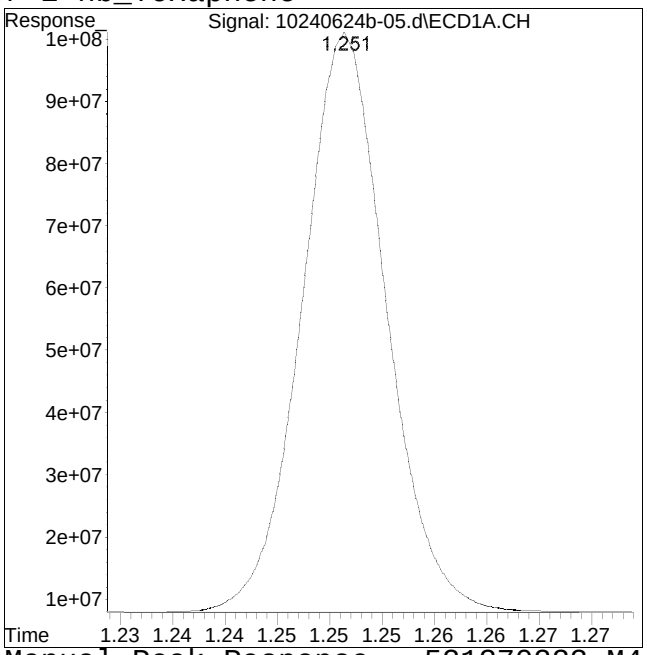


Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240624QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240624b-05.d Operator : PEST10:mmg
Date Inj'd : 6/24/2024 4:19 pm Instrument : Pest 10
Sample : wg1938709-3,42,,tox11615 Quant Date : 6/24/2024 6:31 pm

Compound #33: 1-br-2-nb_Toxaphene



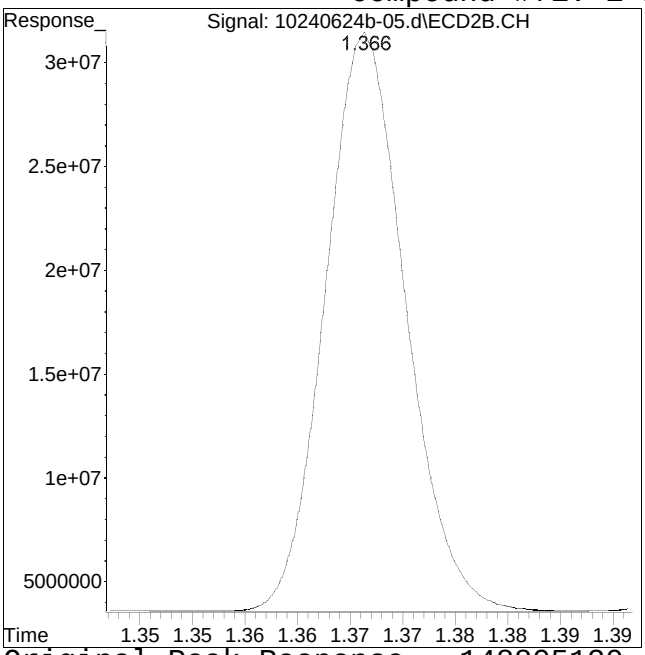


Original Peak Response = 527539489 Manual Peak Response = 521370223 M4
M4 = Poor automated baseline construction.

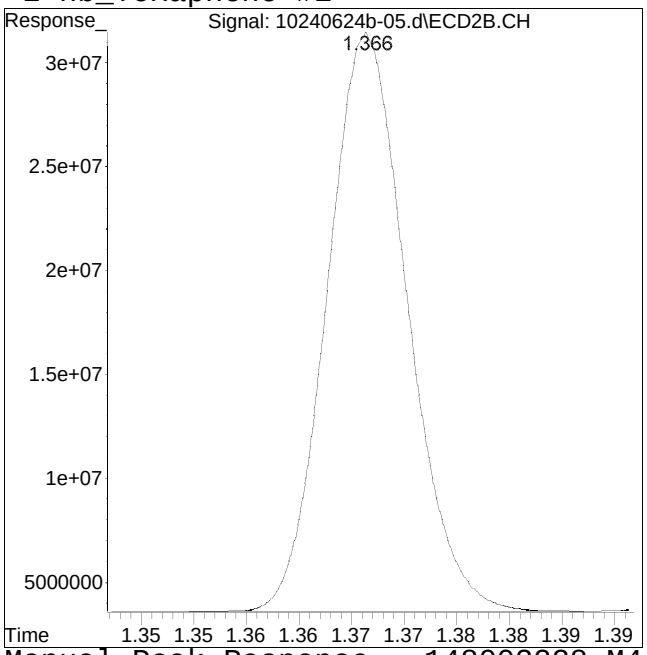
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240624QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240624b-05.d Operator : PEST10:mmg
Date Inj'd : 6/24/2024 4:19 pm Instrument : Pest 10
Sample : wg1938709-3,42,,tox11615 Quant Date : 6/24/2024 6:31 pm

Compound #71: 1-br-2-nb_Toxaphene #2



Original Peak Response = 148805120



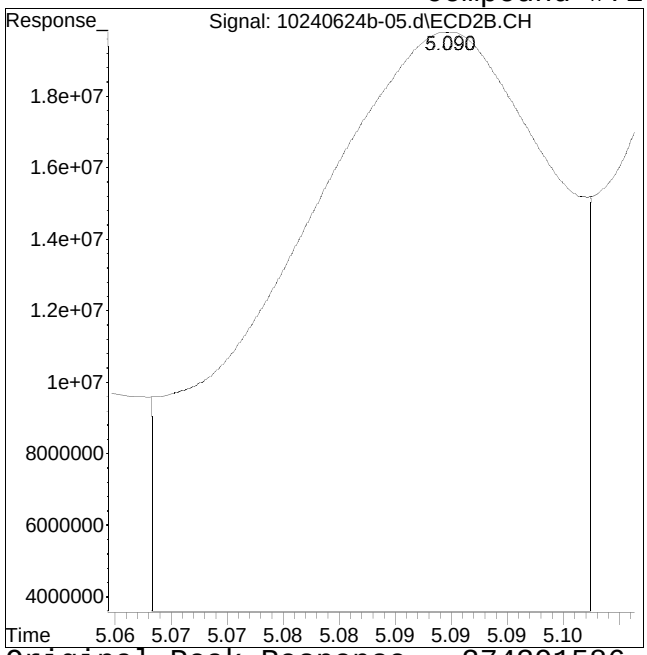
Manual Peak Response = 148003228 M4

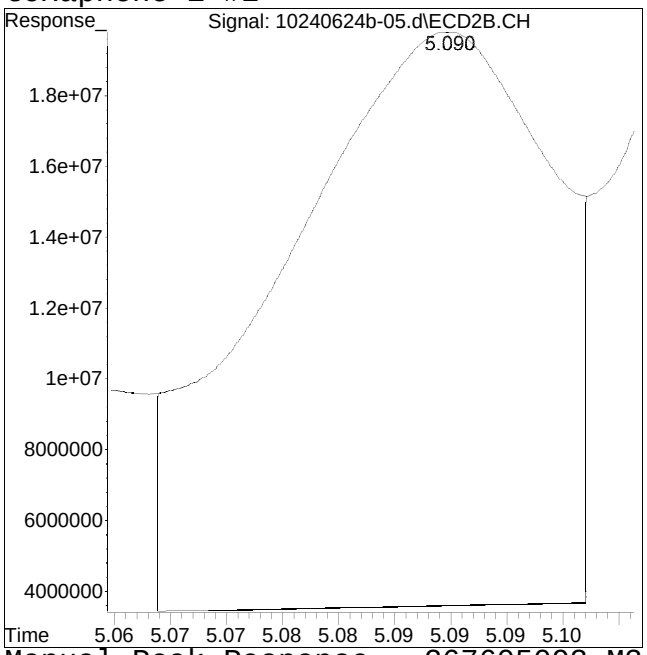
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240624QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240624b-05.d Operator : PEST10:mmg
Date Inj'd : 6/24/2024 4:19 pm Instrument : Pest 10
Sample : wg1938709-3,42,,tox11615 Quant Date : 6/24/2024 6:31 pm

Compound #72: toxaphene-1 #2



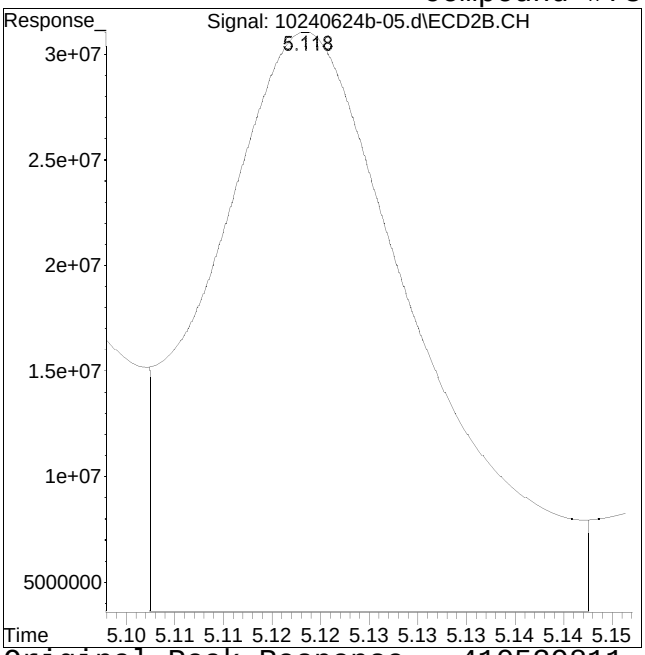


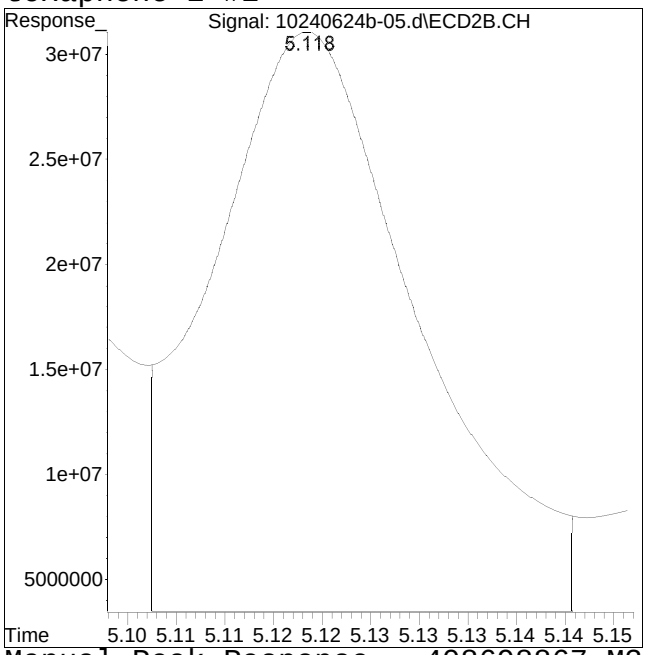
Original Peak Response = 274391586 Manual Peak Response = 267605093 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240624QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240624b-05.d Operator : PEST10:mmg
Date Inj'd : 6/24/2024 4:19 pm Instrument : Pest 10
Sample : wg1938709-3,42,,tox11615 Quant Date : 6/24/2024 6:31 pm

Compound #73: toxaphene-2 #2





Original Peak Response = 410539811 Manual Peak Response = 408698867 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Evaluate Continuing Calibration Report

Data Path : I:\PEST\Pest10\2024\240626B\
Data File : 10240626b-03.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 26 Jun 2024 17:14
Operator : PEST10:jag
Sample   : wg1939871-1,42,,pest11595 (Sig #1); pest11595 (Sig #2)
Misc   : wg1939871,,ical21109
ALS Vial : 3 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 26 17:32:46 2024
Quant Method : I:\PEST\Pest10\2024\240626B\pest10_2024_05_02_ugL_ical21109.m
Quant Title : pest
QLast Update : Wed Jun 26 17:32:36 2024
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
1	i	1-br-2-nb_Pesticides	^	1.000	1.000	0.0	146	0.00
2	s	2,4,5,6-Tetrachloro-m-xylen		1.085	1.175	-8.3	176#	0.00
3	t	Hexachlorobenzene		1.160	1.226	-5.7	172#	0.00
4	t	alpha-BHC		1.510	1.822	-20.7#	181#	0.00
5	t	gamma-BHC (lindane)		1.431	1.629	-13.8	177#	0.00
6	t	beta-BHC	*	50.000	57.367	-14.7	170	0.00
7	t	delta-BHC		1.412	1.593	-12.8	171#	0.00
8	t	Heptachlor		1.359	1.645	-21.0#	188#	0.00
9	t	Aldrin		1.282	1.545	-20.5#	186#	0.00
10	t	Alachlor	*	50.000	62.919	-25.8#	165	0.00
11	t	Chlorpyrifos	*	50.000	71.058	-42.1#	182	0.00
12	t	Heptachlor Epoxide		1.221	1.416	-16.0	184#	0.00
13	t	gamma-Chlordane (trans)		1.117	1.482	-32.7#	214#	0.00
14	t	alpha-Chlordane (cis)		1.269	1.438	-13.3	184#	0.00
15	t	4,4'-DDE		1.202	1.442	-20.0	184#	0.00
16	t	Endosulfan I		1.163	1.329	-14.3	181#	0.00
17	t	Dieldrin		1.200	1.530	-27.5#	198#	0.00
18	t	Endrin		1.233	1.467	-19.0	185#	0.00
19	t	4,4'-DDD		0.977	1.244	-27.3#	198#	0.00
20	t	Endosulfan II		1.064	1.312	-23.3#	190#	0.00
21	t	4,4'-DDT		1.081	1.204	-11.4	175#	0.00
22	t	Endrin Aldehyde	*	50.000	58.687	-17.4	177	0.00
23	t	Methoxychlor	*	50.000	72.492	-45.0#	194	0.00
24	t	Mirex	*	50.000	65.187	-30.4#	189	0.00
25	t	Endosulfan Sulfate		1.055	1.218	-15.5	186#	0.00
26	t	Endrin Ketone		1.157	1.384	-19.6	189#	0.00
27	s	Decachlorobiphenyl	*	50.000	23.422	53.2#	69	0.00

Signal #2

Evaluate Continuing Calibration Report

Data Path : I:\PEST\Pest10\2024\240626B\
Data File : 10240626b-03.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 26 Jun 2024 17:14
Operator : PEST10:jag
Sample   : wg1939871-1,42,,pest11595 (Sig #1); pest11595 (Sig #2)
Misc   : wg1939871,,ical21109
ALS Vial : 3 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 26 17:32:46 2024
Quant Method : I:\PEST\Pest10\2024\240626B\pest10_2024_05_02_ugL_ical21109.m
Quant Title : pest
QLast Update : Wed Jun 26 17:32:36 2024
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
1	i	1-br-2-nb_Pesticides	^	1.000	1.000	0.0	105	0.00
2	s	2,4,5,6-Tetrachloro-m-xyl		0.940	1.049	-11.6	123	0.00
3	t	Hexachlorobenzene		1.080	1.129	-4.5	121	0.00
4	t	alpha-BHC		1.339	1.573	-17.5	123	0.00
5	t	gamma-BHC (lindane)		1.257	1.427	-13.5	122	0.00
6	t	beta-BHC	*	50.000	55.266	-10.5	120	0.00
7	t	delta-BHC		1.262	1.377	-9.1	116	0.00
8	t	Heptachlor		1.248	1.376	-10.3	121	0.00
9	t	Aldrin		1.137	1.275	-12.1	122	0.00
10	t	Alachlor	*	50.000	57.663	-15.3	116	0.00
11	t	Chlorpyrifos	*	50.000	60.544	-21.1#	120	0.00
12	t	Heptachlor Epoxide		1.137	1.192	-4.8	118	0.00
13	t	gamma-Chlordane (trans)		1.011	1.212	-19.9	136	0.00
14	t	alpha-Chlordane (cis)		1.137	1.196	-5.2	119	0.00
15	t	4,4'-DDE		1.052	1.166	-10.8	119	0.00
16	t	Endosulfan I		1.058	1.114	-5.3	118	0.00
17	t	Dieldrin		1.059	1.228	-16.0	127	0.00
18	t	Endrin		1.086	1.125	-3.6	112	0.00
19	t	4,4'-DDD		0.846	0.929	-9.8	120	0.00
20	t	Endosulfan II		0.951	0.995	-4.6	113	0.00
21	t	4,4'-DDT		0.960	0.965	-0.5	110	0.00
22	t	Endrin Aldehyde	*	50.000	44.320	11.4	99	0.00
23	t	Methoxychlor	*	50.000	48.790	2.4	101	0.00
24	t	Mirex	*	50.000	44.098	11.8	92	0.00
25	t	Endosulfan Sulfate		0.948	0.863	9.0	104	0.00
26	t	Endrin Ketone		1.033	0.909	12.0	98	0.00
27	s	Decachlorobiphenyl	*	50.000	18.279	63.4#	39	0.00

Evaluate Continuing Calibration Report - Not Founds

Evaluate Continuing Calibration Report

Data Path : I:\PEST\Pest10\2024\240626B\
Data File : 10240626b-03.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 26 Jun 2024 17:14
Operator : PEST10:jag
Sample   : wg1939871-1,42,,pest11595 (Sig #1); pest11595 (Sig #2)
Misc   : wg1939871,,ical21109
ALS Vial : 3 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 26 17:32:46 2024
Quant Method : I:\PEST\Pest10\2024\240626B\pest10_2024_05_02_ugL_ical21109.m
Quant Title : pest
QLast Update : Wed Jun 26 17:32:36 2024
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
28	i	1-br-2-nb_Chlordane	^	1.000	1.000	0.0	0	-1.25#
29	l1	chlordane-1		*1000.000	0.000	100.0#	0	-2.36#
30	l1	chlordane-3		*1000.000	0.000	100.0#	0	-2.42#
31	l1	chlordane-4		*1000.000	0.000	100.0#	0	-2.77#
32	l1	chlordane-5		*1000.000	0.000	100.0#	0	-3.31#
33	i	1-br-2-nb_Toxaphene	^	1.000	1.000	0.0	0	-1.25#
34	l2	toxaphene-1		*2000.000	0.000	100.0#	0	-4.33#
35	l2	toxaphene-2		*2000.000	0.000	100.0#	0	-4.45#
36	l2	toxaphene-4		*2000.000	0.000	100.0#	0	-4.88#
37	l2	toxaphene-5		*2000.000	0.000	100.0#	0	-5.07#

Signal #2

28	i	1-br-2-nb_Chlordane	^	1.000	1.000	0.0	0	-1.36#
29	l1	chlordane-1		*1000.000	0.000	100.0#	0	-2.81#
30	l1	chlordane-3		*1000.000	0.000	100.0#	0	-3.42#
31	l1	chlordane-4		*1000.000	0.000	100.0#	0	-4.10#
32	l1	chlordane-5		*1000.000	0.000	100.0#	0	-4.27#
33	i	1-br-2-nb_Toxaphene	^	1.000	1.000	0.0	0	-1.36#
34	l2	toxaphene-1		*2000.000	0.000	100.0#	0	-5.09#
35	l2	toxaphene-2		*2000.000	0.000	100.0#	0	-5.11#
36	l2	toxaphene-4		*2000.000	0.000	100.0#	0	-5.43#
37	l2	toxaphene-5		*2000.000	0.000	100.0#	0	-5.84#

* Evaluation of CC level amount vs concentration.
(#) = Out of Range SPCC's out = 0 CCC's out = 0
(^) = ISTD area calculated using ICAL average

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest10\2024\240626B\
Data File : 10240626b-03.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 26 Jun 2024 17:14
Operator : PEST10:jag
Sample : wg1939871-1,42,,pest11595 (Sig #1); pest11595 (Sig #2)
Misc : wg1939871,,ical21109
ALS Vial : 3 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 26 17:32:46 2024
Quant Method : I:\PEST\Pest10\2024\240626B\pest10_2024_05_02_ugL_ical21109.m
Quant Title : pest
QLast Update : Wed Jun 26 17:32:36 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	1.248	1.363	559.0E6	148.0E6	25.000M4	25.000M4
28) i	1-br-2-nb_Ch	0.000	0.000	0	0	N.D. d	N.D. d
33) i	1-br-2-nb_To	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	1.584	1.843	1313.1E6	310.5E6	54.115M4	55.808
	Spiked Amount 50.000	Range 30 - 150		Recovery =		108.23%	111.62%
27) s	Decachlorobi	6.213	6.941	432.2E6	80701374	23.422	18.279
	Spiked Amount 50.000	Range 30 - 150		Recovery =		46.84%	36.56%
	Target Compounds						
3) t	Hexachlorobe	1.791	2.164	1370.7E6	334.1E6	52.861M4	52.258M4
4) t	alpha-BHC	1.888	2.261	2037.3E6	465.5E6	60.328M4	58.757M4
5) t	gamma-BHC (l	2.084	2.547	1821.4E6	422.3E6	56.912M4	56.753M4
6) t	beta-BHC	2.139	2.612	732.0E6	180.1E6	57.367M4	55.266M4
7) t	delta-BHC	2.264	2.879	1780.5E6	407.4E6	56.381	54.526
8) t	Heptachlor	2.421	2.944	1839.5E6	407.3E6	60.517M4	55.119M4
9) t	Aldrin	2.657	3.263	1727.2E6	377.2E6	60.253M4	56.046
10) t	Alachlor	2.778	3.146	224.1E6	56123930	62.919M4	57.663M4
11) t	Chlorpyrifos	2.868	3.501	766.3E6	186.2E6	71.058	60.544
12) t	Heptachlor E	3.190	3.880	1582.6E6	352.8E6	57.956	52.441
13) t	gamma-Chlord	3.311	4.100	1657.2E6	358.6E6	66.342	59.919M4

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest10\2024\240626B\
Data File : 10240626b-03.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 26 Jun 2024 17:14
Operator : PEST10:jag
Sample : wg1939871-1,42,,pest11595 (Sig #1); pest11595 (Sig #2)
Misc : wg1939871,,ical21109
ALS Vial : 3 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 26 17:32:46 2024
Quant Method : I:\PEST\Pest10\2024\240626B\pest10_2024_05_02_ugL_ical21109.m
Quant Title : pest
QLast Update : Wed Jun 26 17:32:36 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

		Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
14)	t	alpha-Chlord	3.443	4.273	1607.2E6	354.1E6	56.637M4	52.599
15)	t	4,4'-DDE	3.540	4.473	1611.9E6	344.9E6	59.981	55.421
16)	t	Endosulfan I	3.577	4.334	1486.0E6	329.8E6	57.155	52.677
17)	t	Dieldrin	3.832	4.628	1710.6E6	363.4E6	63.749M4	57.994
18)	t	Endrin	4.083	4.928	1639.5E6	333.0E6	59.484M4	51.803
19)	t	4,4'-DDD	4.201	5.050	1390.4E6	274.8E6	63.647	54.894M4
20)	t	Endosulfan I	4.334	5.127	1467.2E6	294.3E6	61.677	52.280M4
21)	t	4,4'-DDT	4.505	5.329	1345.6E6	285.4E6	55.657M4	50.256M4
22)	t	Endrin Aldeh	4.766	5.424	1063.3E6	202.2E6	58.687	44.320M4
23)	t	Methoxychlor	5.009	5.896	804.4E6	139.1E6	72.492M4	48.790
24)	t	Mirex	5.058	6.032	1184.3E6	191.2E6	65.187	44.098
25)	t	Endosulfan S	5.168	5.654	1362.0E6	255.4E6	57.736M4	45.516
26)	t	Endrin Keton	5.398	6.067	1547.2E6	268.8E6	59.797M4	43.969
29)	l1	chlordane-1	0.000	0.000	0	0	N.D. d	N.D. d
30)	l1	chlordane-3	0.000	0.000	0	0	N.D. d	N.D. d
31)	l1	chlordane-4	0.000	0.000	0	0	N.D. d	N.D. d
32)	l1	chlordane-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum	chlordane-1			0	0	N.D.	N.D.
	Average	chlordane-1					0.000	0.000
34)	l2	toxaphene-1	0.000	0.000	0	0	N.D. d	N.D. d
35)	l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
36)	l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest10\2024\240626B\
Data File : 10240626b-03.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 26 Jun 2024 17:14
Operator : PEST10:jag
Sample : wg1939871-1,42,,pest11595 (Sig #1); pest11595 (Sig #2)
Misc : wg1939871,,ical21109
ALS Vial : 3 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 26 17:32:46 2024
Quant Method : I:\PEST\Pest10\2024\240626B\pest10_2024_05_02_ugL_ical21109.m
Quant Title : pest
QLast Update : Wed Jun 26 17:32:36 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
37) l2	toxaphene-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

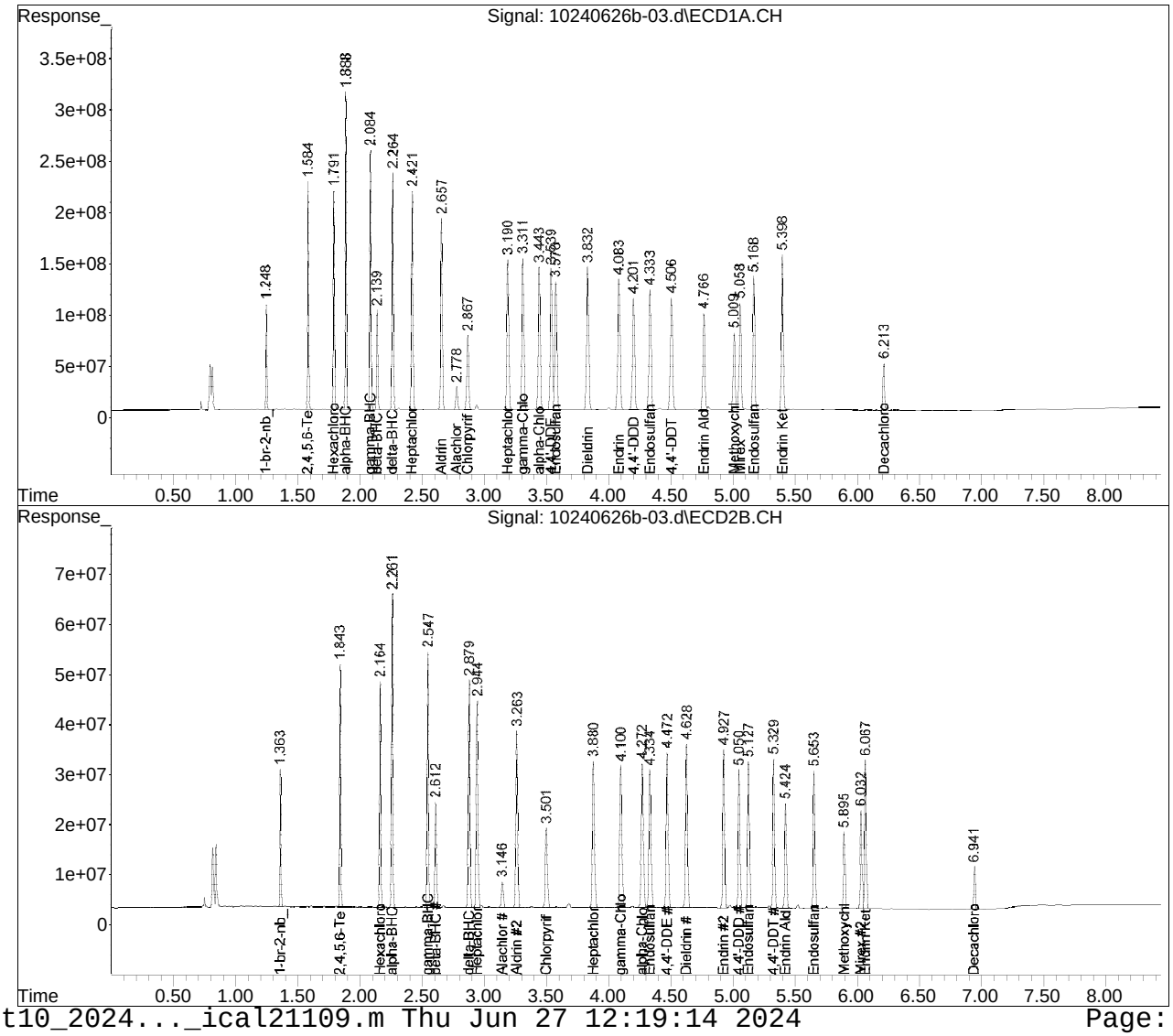
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest10\2024\240626B\
Data File : 10240626b-03.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 26 Jun 2024 17:14
Operator : PEST10:jag
Sample : wg1939871-1,42,,pest11595 (Sig #1); pest11595 (Sig #2)
Misc : wg1939871,,ical21109
ALS Vial : 3 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 26 17:32:46 2024
Quant Method : I:\PEST\Pest10\2024\240626B\pest10_2024_05_02_ugL_ical21109.m
Quant Title : pest
QLast Update : Wed Jun 26 17:32:36 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

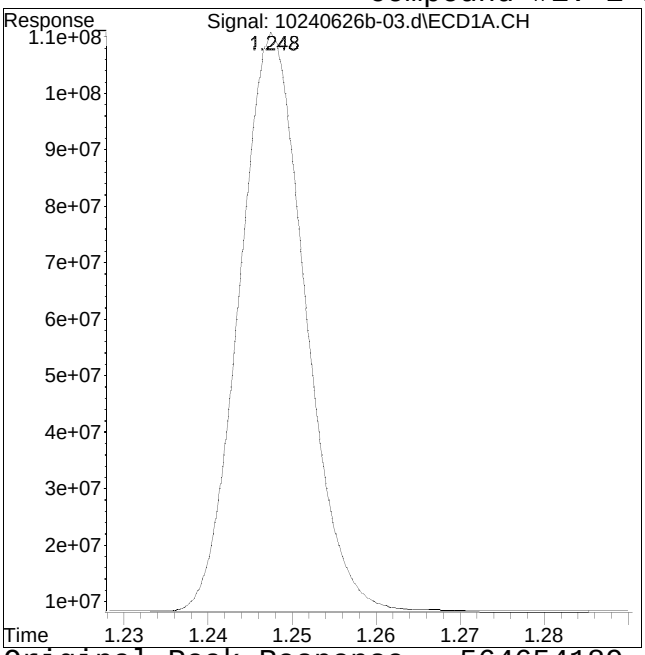
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

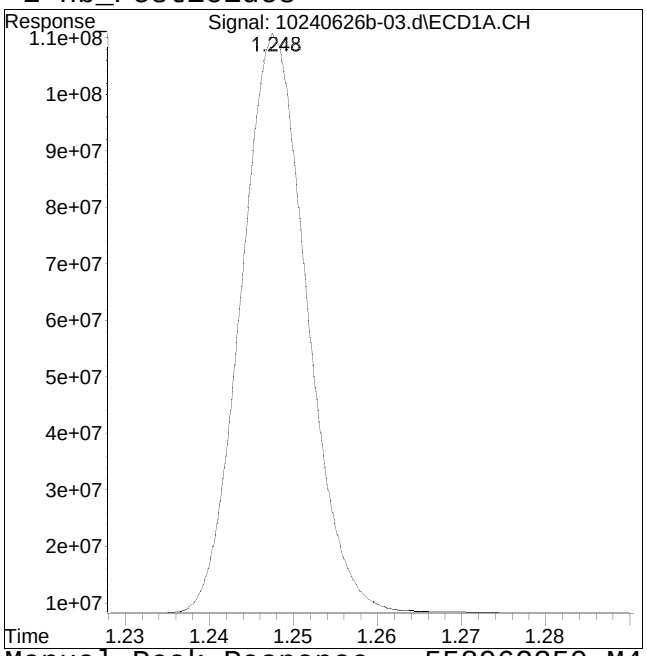


Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240626QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240626b-03.d Operator : PEST10:jag
Date Inj'd : 6/26/2024 17:14 Instrument : Pest 10
Sample : wg1939871-1,42,,pest11595 Quant Date : 6/26/2024 5:32 pm

Compound #1: 1-br-2-nb_Pesticides



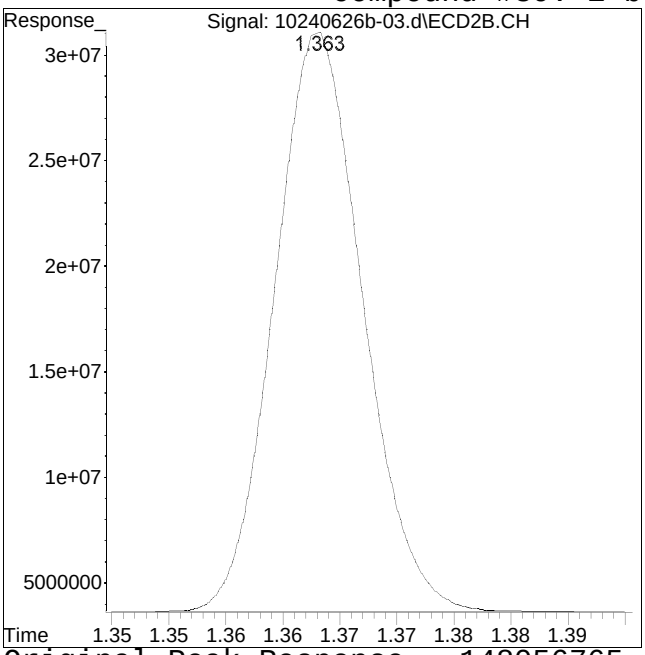


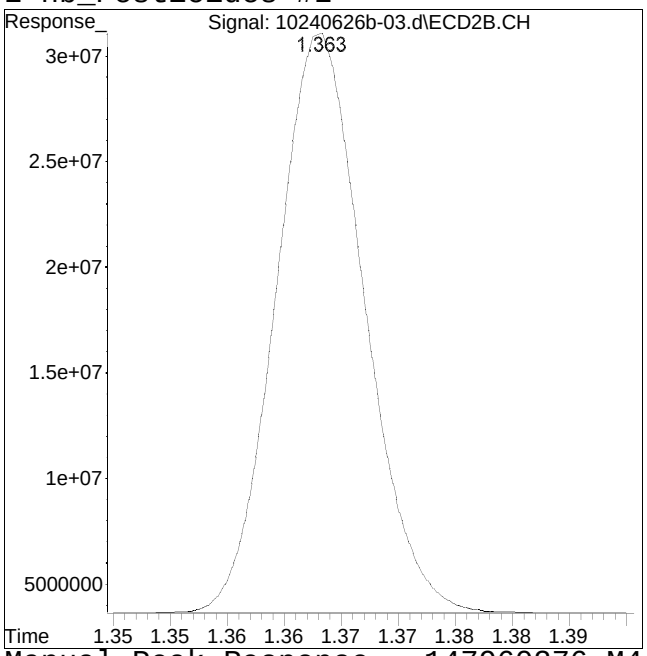
Original Peak Response = 564654189 Manual Peak Response = 558962350 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240626QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240626b-03.d Operator : PEST10:jag
Date Inj'd : 6/26/2024 17:14 Instrument : Pest 10
Sample : wg1939871-1,42,,pest11595 Quant Date : 6/26/2024 5:32 pm

Compound #39: 1-br-2-nb_Pesticides #2



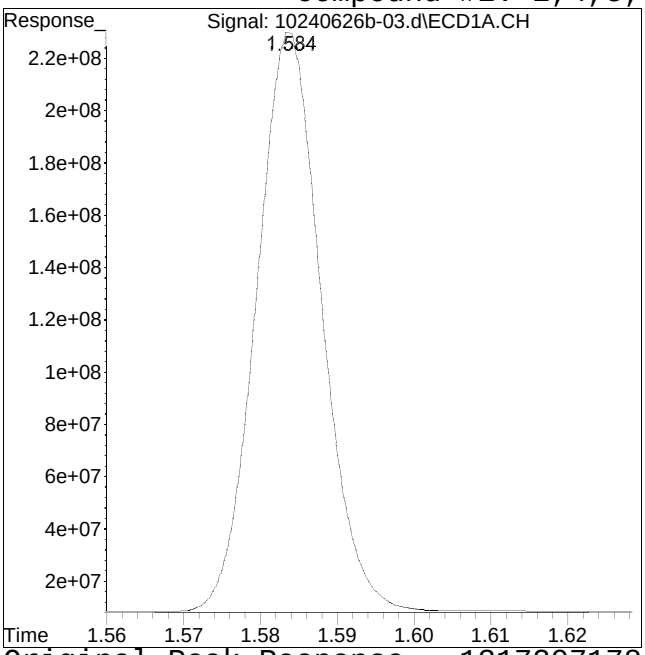


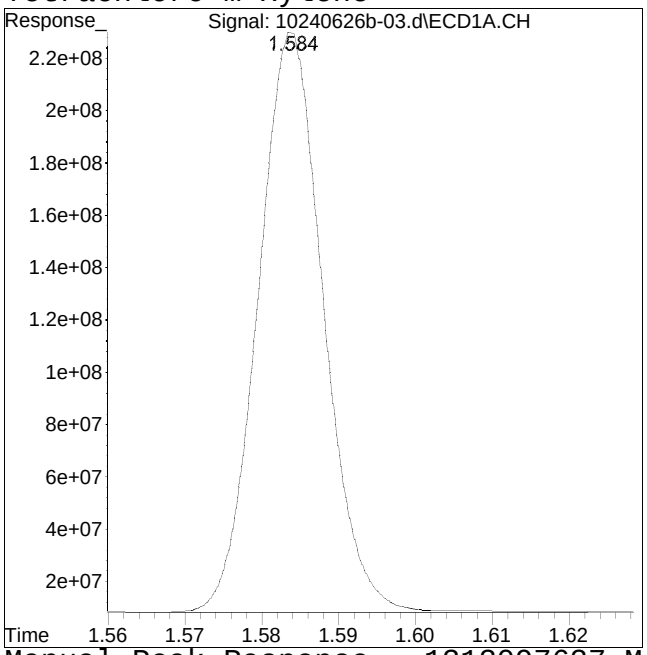
Original Peak Response = 148056765 Manual Peak Response = 147960276 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240626QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240626b-03.d Operator : PEST10:jag
Date Inj'd : 6/26/2024 17:14 Instrument : Pest 10
Sample : wg1939871-1,42,,pest11595 Quant Date : 6/26/2024 5:32 pm

Compound #2: 2,4,5,6-Tetrachloro-m-xylene



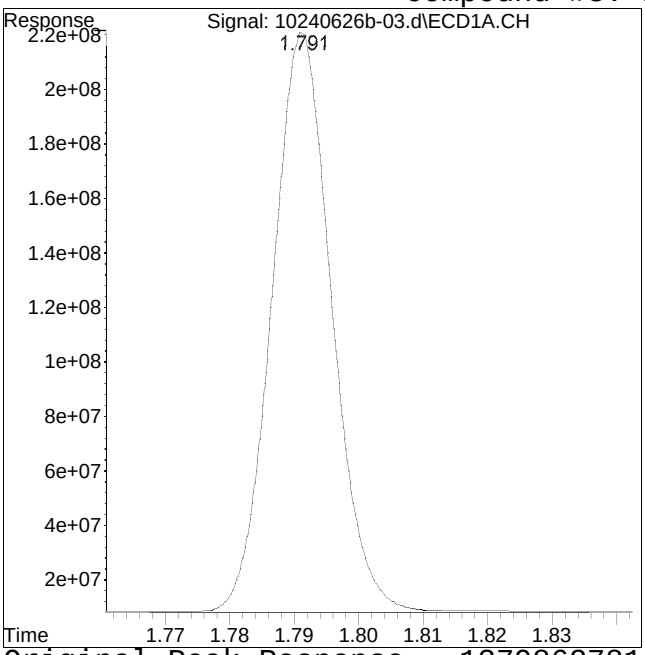


Original Peak Response = 1317207178 Manual Peak Response = 1313097637 M4
M4 = Poor automated baseline construction.

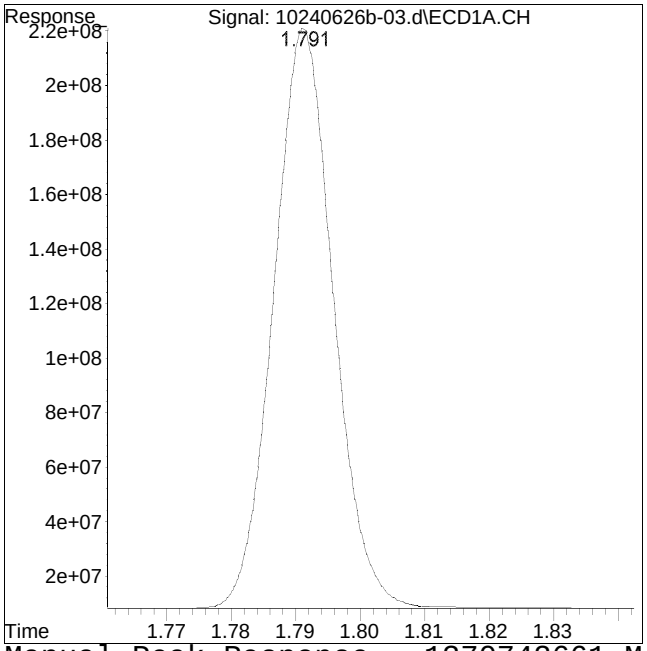
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240626QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240626b-03.d Operator : PEST10:jag
Date Inj'd : 6/26/2024 17:14 Instrument : Pest 10
Sample : wg1939871-1,42,,pest11595 Quant Date : 6/26/2024 5:32 pm

Compound #3: Hexachlorobenzene



Original Peak Response = 1379862781



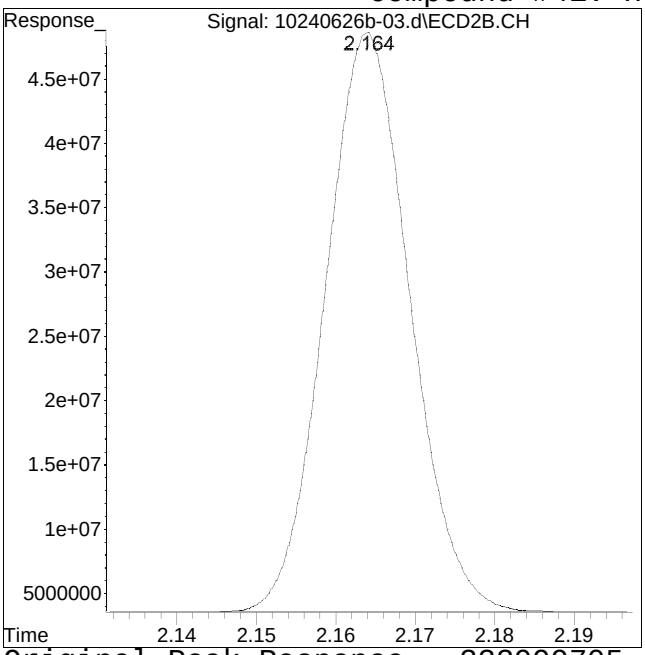
Manual Peak Response = 1370742661 M4

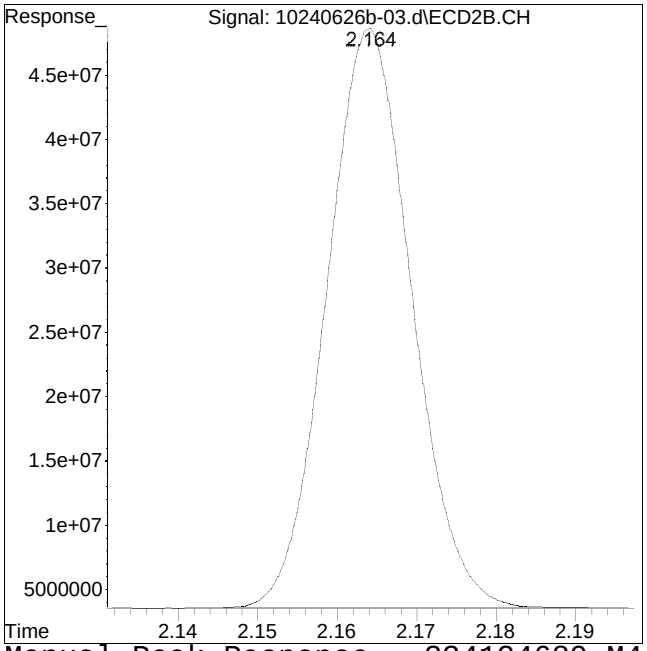
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240626QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240626b-03.d Operator : PEST10:jag
Date Inj'd : 6/26/2024 17:14 Instrument : Pest 10
Sample : wg1939871-1,42,,pest11595 Quant Date : 6/26/2024 5:32 pm

Compound #41: Hexachlorobenzene #2



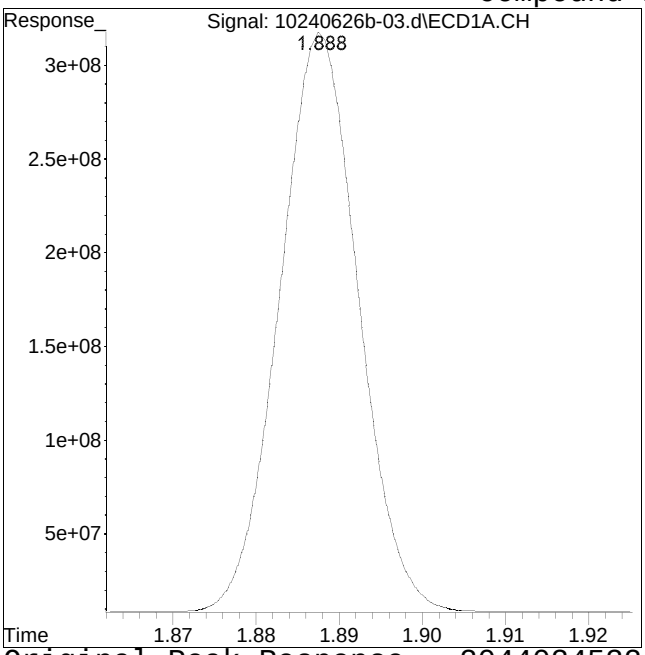


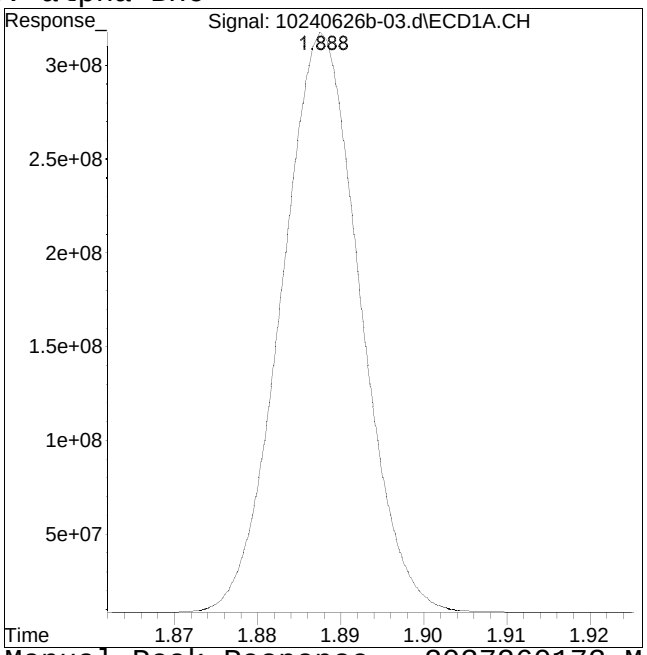
Original Peak Response = 333999705 Manual Peak Response = 334124689 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240626QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240626b-03.d Operator : PEST10:jag
Date Inj'd : 6/26/2024 17:14 Instrument : Pest 10
Sample : wg1939871-1,42,,pest11595 Quant Date : 6/26/2024 5:32 pm

Compound #4: alpha-BHC



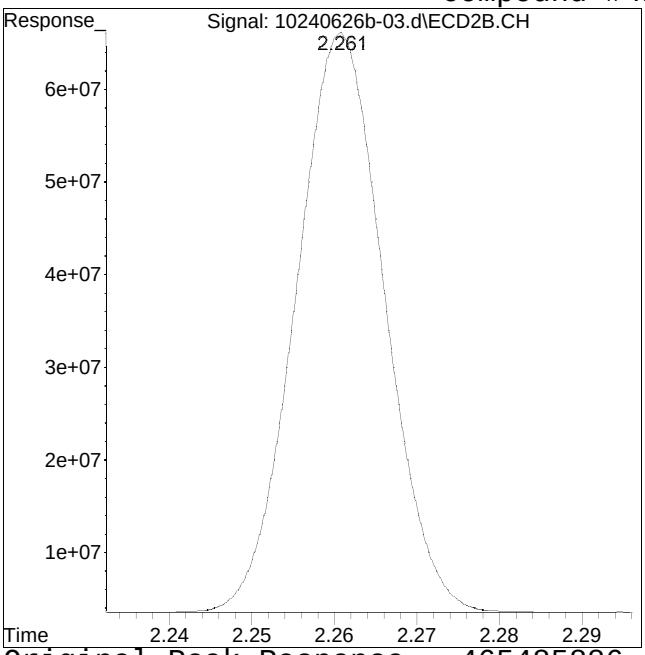


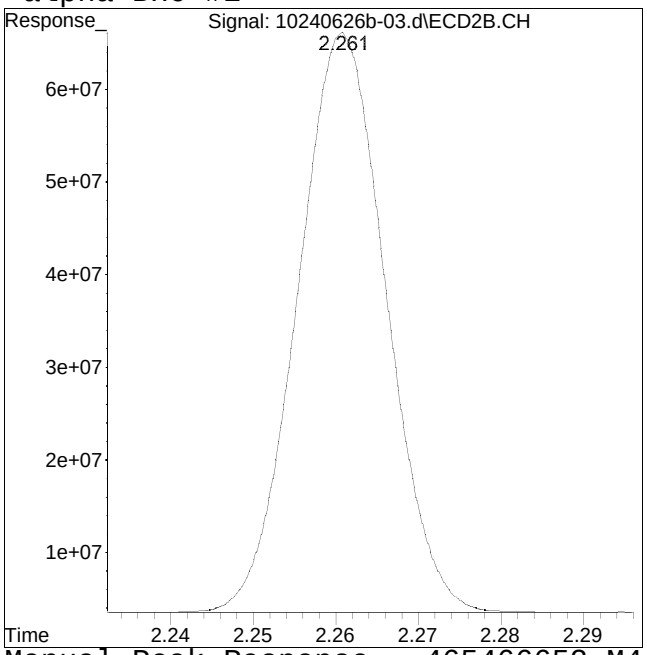
Original Peak Response = 2044024532 Manual Peak Response = 2037260173 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240626QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240626b-03.d Operator : PEST10:jag
Date Inj'd : 6/26/2024 17:14 Instrument : Pest 10
Sample : wg1939871-1,42,,pest11595 Quant Date : 6/26/2024 5:32 pm

Compound #42: alpha-BHC #2



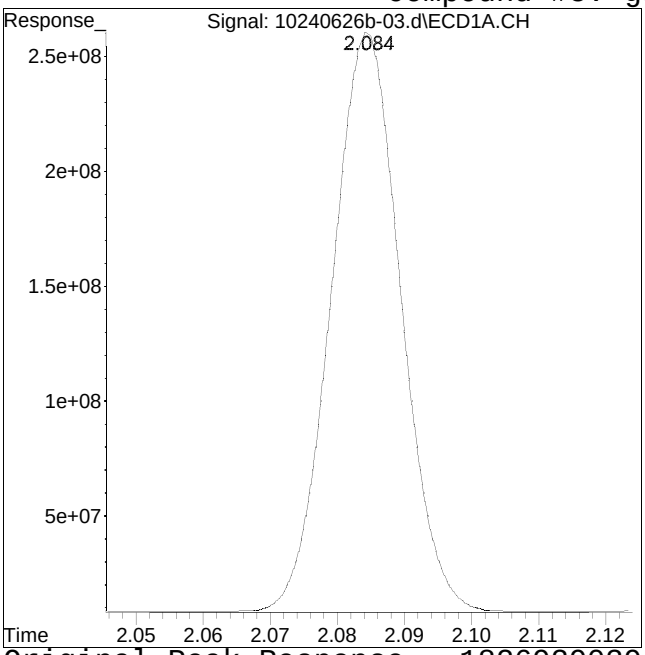


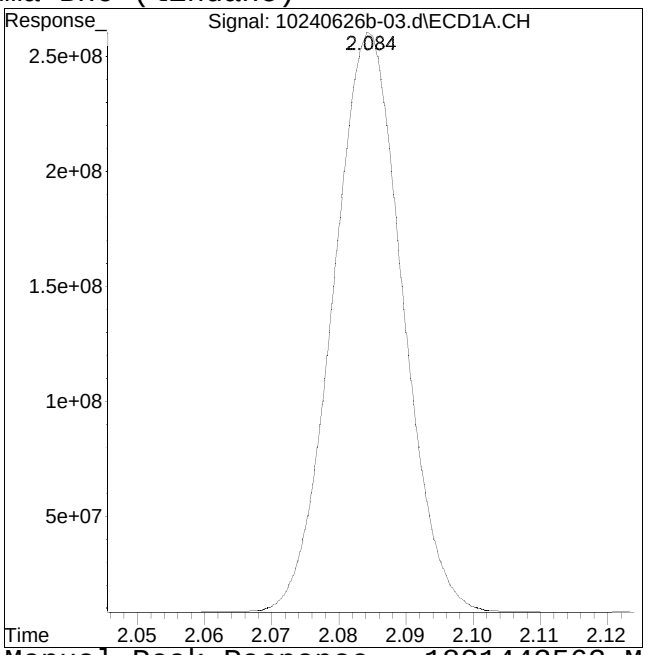
Original Peak Response = 465485886 Manual Peak Response = 465466652 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240626QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240626b-03.d Operator : PEST10:jag
Date Inj'd : 6/26/2024 17:14 Instrument : Pest 10
Sample : wg1939871-1,42,,pest11595 Quant Date : 6/26/2024 5:32 pm

Compound #5: gamma-BHC (lindane)



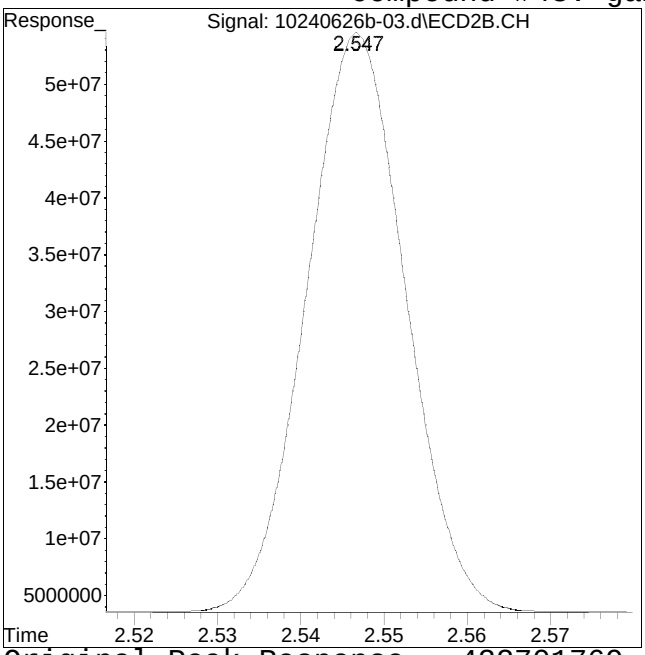


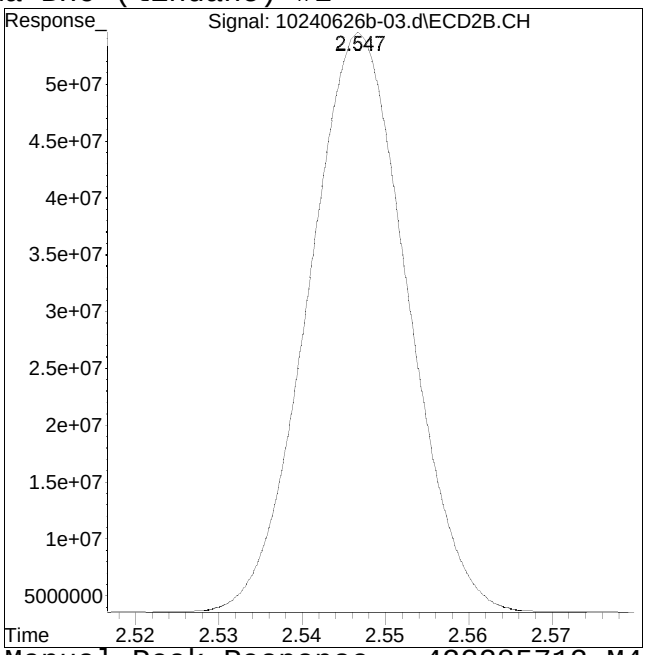
Original Peak Response = 1826929039 Manual Peak Response = 1821443563 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240626QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240626b-03.d Operator : PEST10:jag
Date Inj'd : 6/26/2024 17:14 Instrument : Pest 10
Sample : wg1939871-1,42,,pest11595 Quant Date : 6/26/2024 5:32 pm

Compound #43: gamma-BHC (lindane) #2



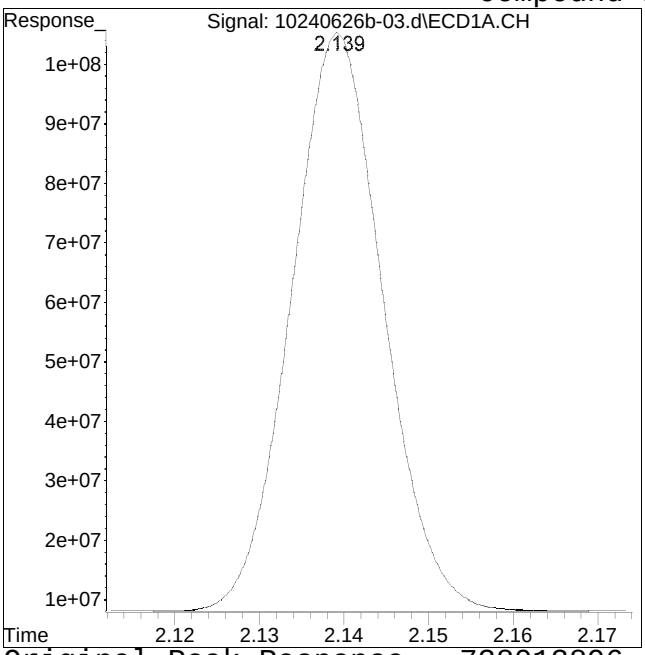


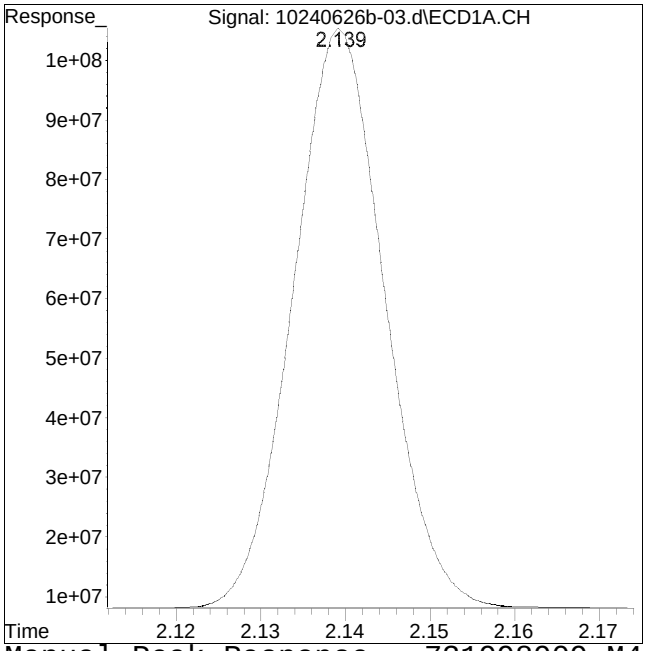
Original Peak Response = 422701769 Manual Peak Response = 422285712 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240626QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240626b-03.d Operator : PEST10:jag
Date Inj'd : 6/26/2024 17:14 Instrument : Pest 10
Sample : wg1939871-1,42,,pest11595 Quant Date : 6/26/2024 5:32 pm

Compound #6: beta-BHC



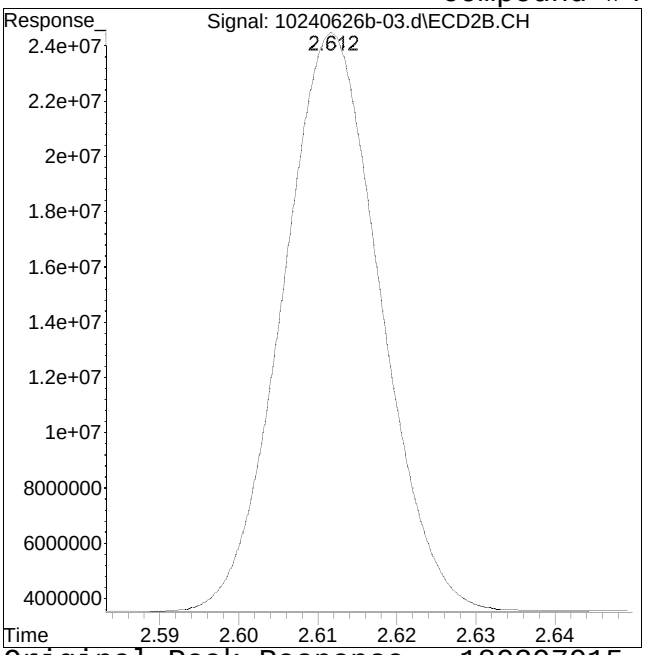


Original Peak Response = 738013896 Manual Peak Response = 731998909 M4
M4 = Poor automated baseline construction.

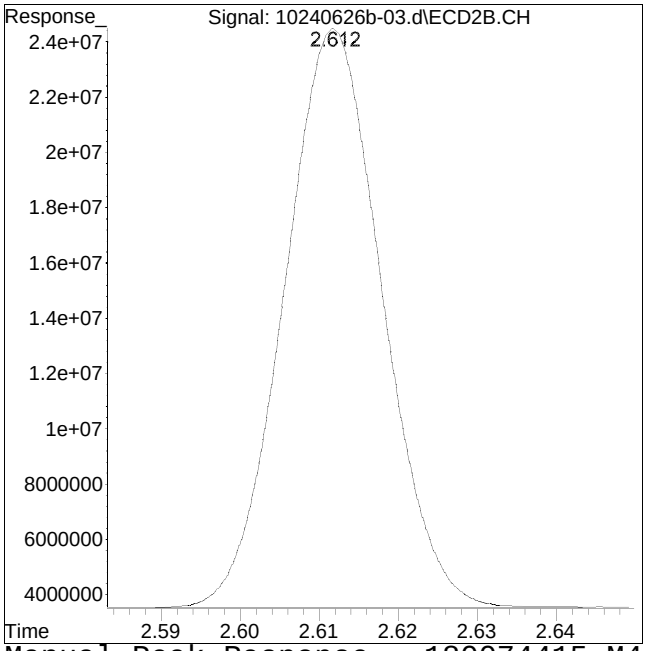
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240626QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240626b-03.d Operator : PEST10:jag
Date Inj'd : 6/26/2024 17:14 Instrument : Pest 10
Sample : wg1939871-1,42,,pest11595 Quant Date : 6/26/2024 5:32 pm

Compound #44: beta-BHC #2



Original Peak Response = 180397915



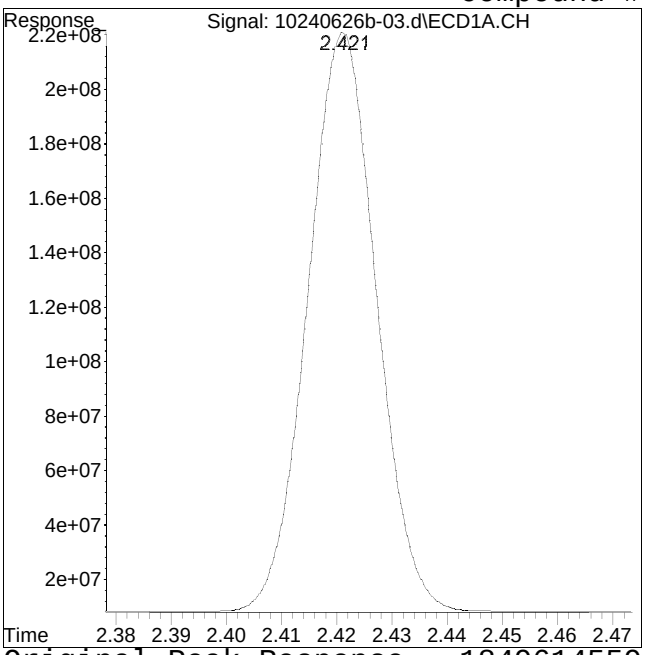
Manual Peak Response = 180074415 M4

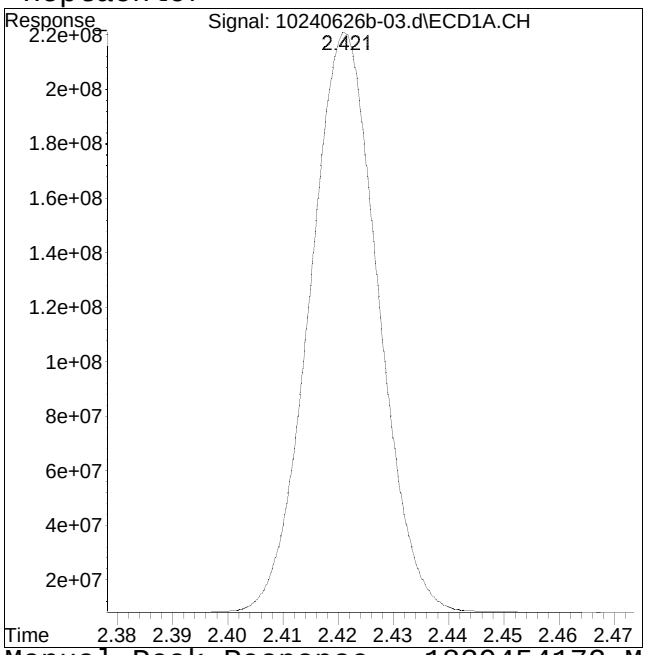
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240626QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240626b-03.d Operator : PEST10:jag
Date Inj'd : 6/26/2024 17:14 Instrument : Pest 10
Sample : wg1939871-1,42,,pest11595 Quant Date : 6/26/2024 5:32 pm

Compound #8: Heptachlor



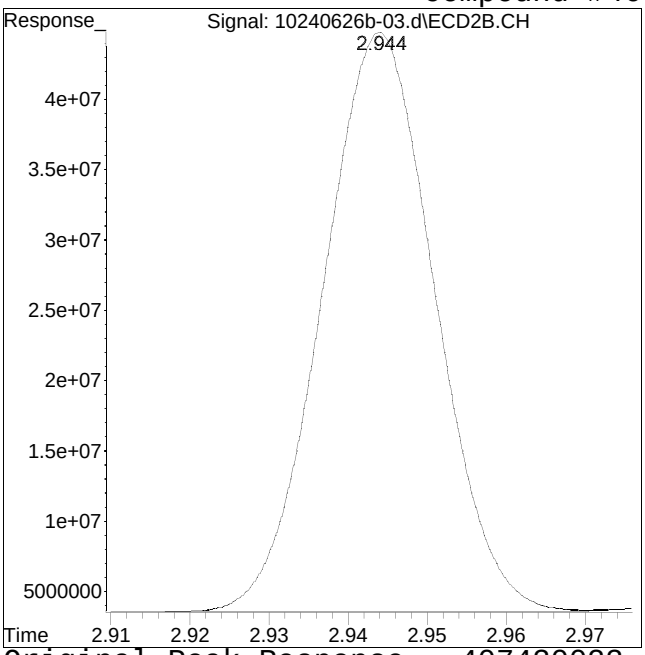


Original Peak Response = 1849614559 Manual Peak Response = 1839454172 M4
M4 = Poor automated baseline construction.

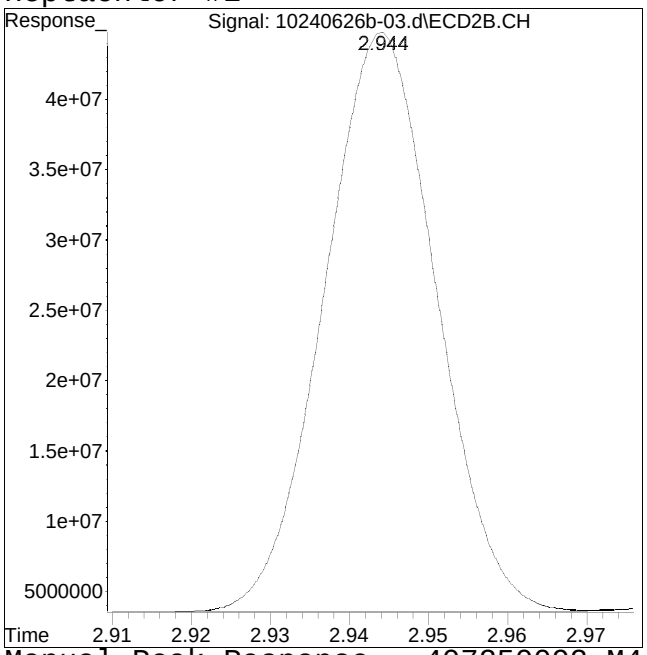
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240626QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240626b-03.d Operator : PEST10:jag
Date Inj'd : 6/26/2024 17:14 Instrument : Pest 10
Sample : wg1939871-1,42,,pest11595 Quant Date : 6/26/2024 5:32 pm

Compound #46: Heptachlor #2



Original Peak Response = 407430023



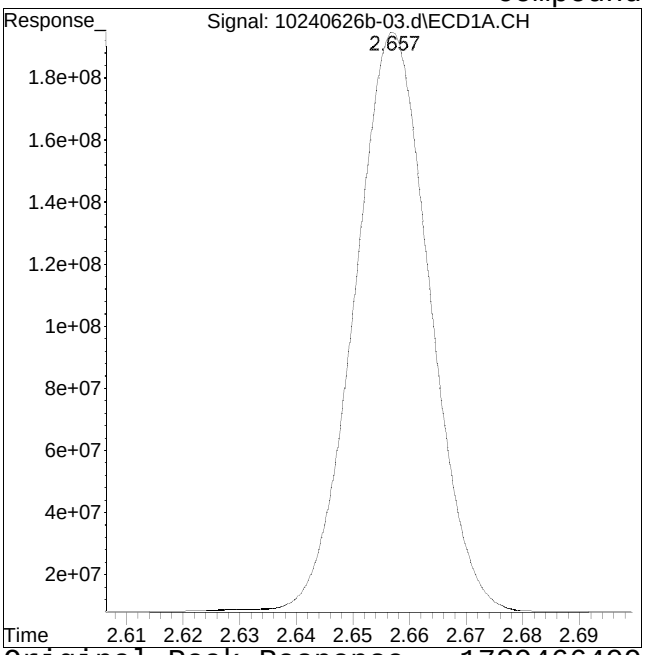
Manual Peak Response = 407250092 M4

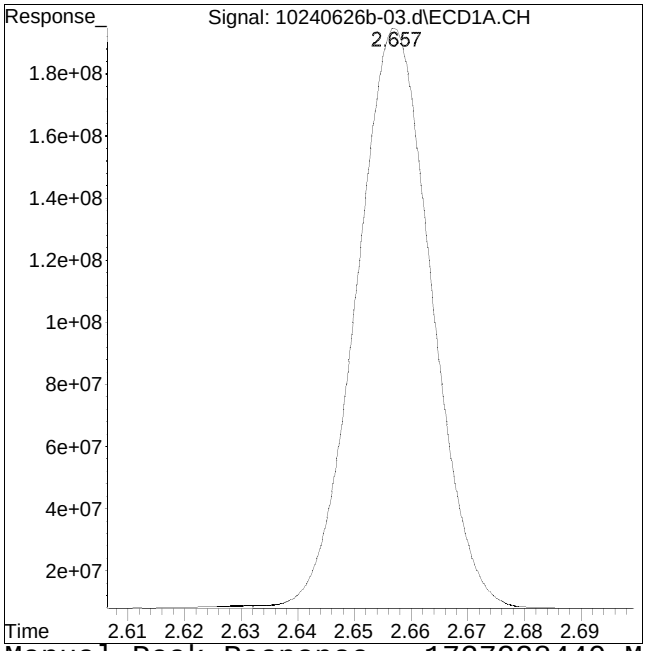
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240626QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240626b-03.d Operator : PEST10:jag
Date Inj'd : 6/26/2024 17:14 Instrument : Pest 10
Sample : wg1939871-1,42,,pest11595 Quant Date : 6/26/2024 5:32 pm

Compound #9: Aldrin



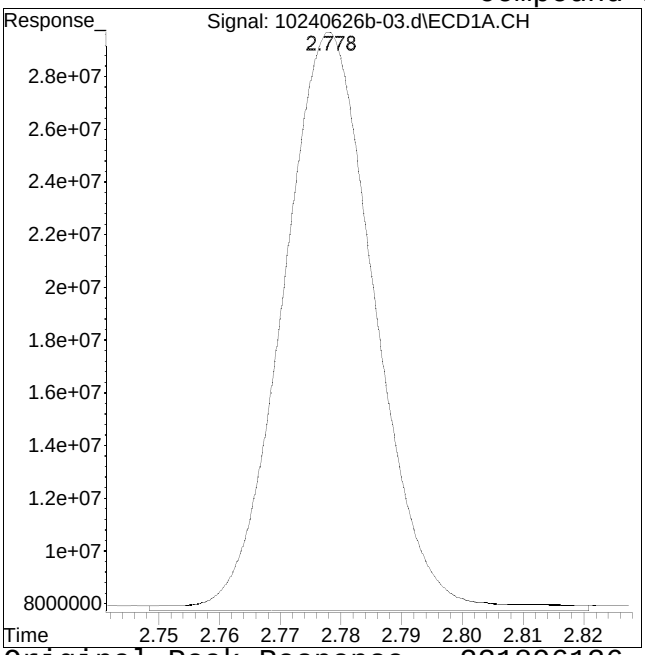


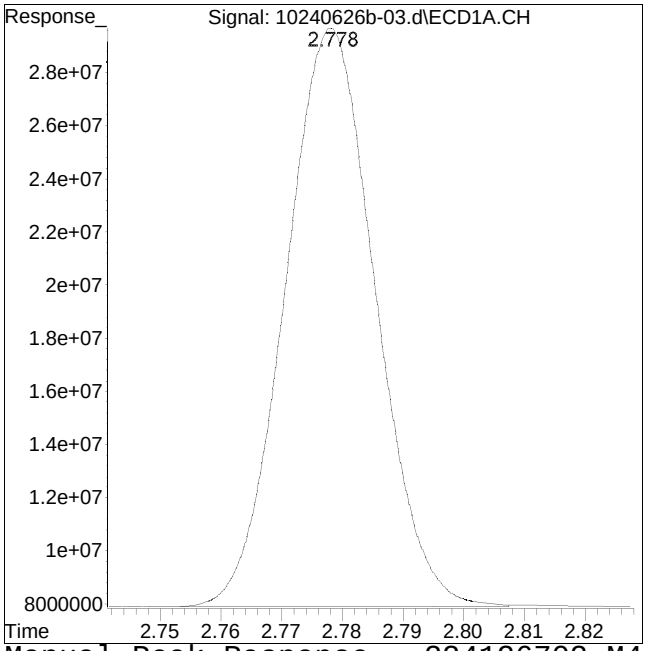
Original Peak Response = 1739466409 Manual Peak Response = 1727228440 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240626QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240626b-03.d Operator : PEST10:jag
Date Inj'd : 6/26/2024 17:14 Instrument : Pest 10
Sample : wg1939871-1,42,,pest11595 Quant Date : 6/26/2024 5:32 pm

Compound #10: Alachlor



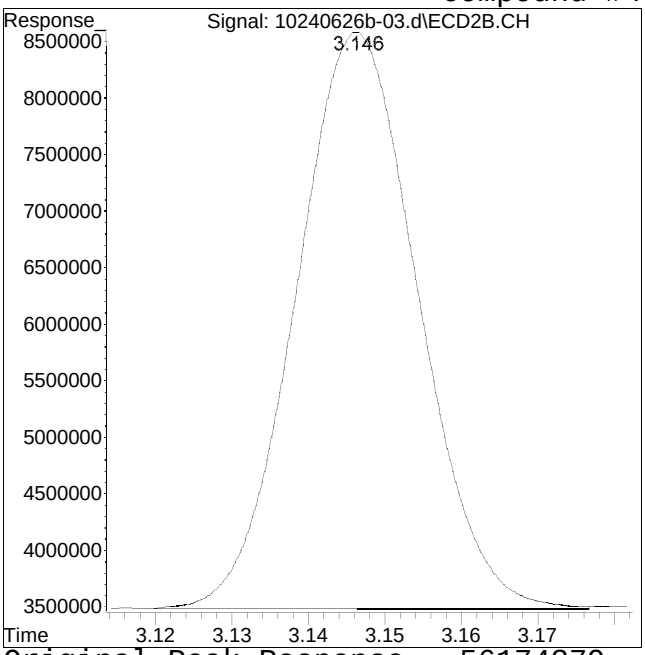


Original Peak Response = 231896136 Manual Peak Response = 224126702 M4
M4 = Poor automated baseline construction.

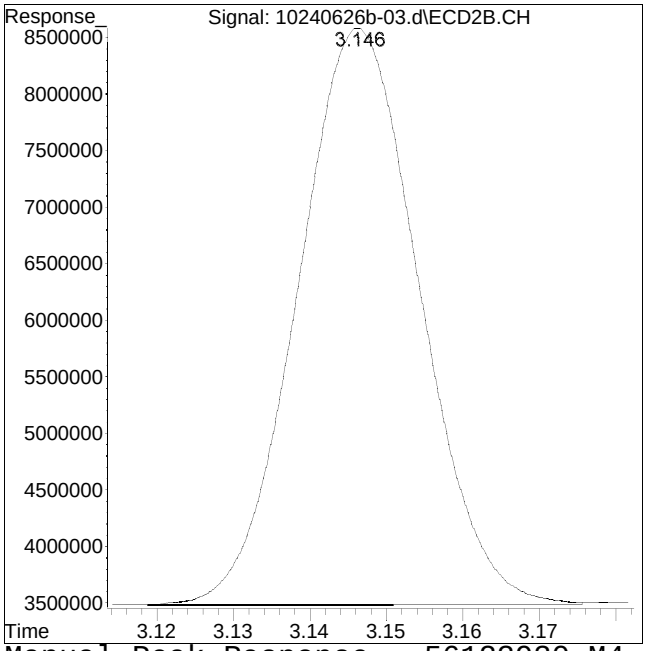
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240626QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240626b-03.d Operator : PEST10:jag
Date Inj'd : 6/26/2024 17:14 Instrument : Pest 10
Sample : wg1939871-1,42,,pest11595 Quant Date : 6/26/2024 5:32 pm

Compound #48: Alachlor #2



Original Peak Response = 56174379



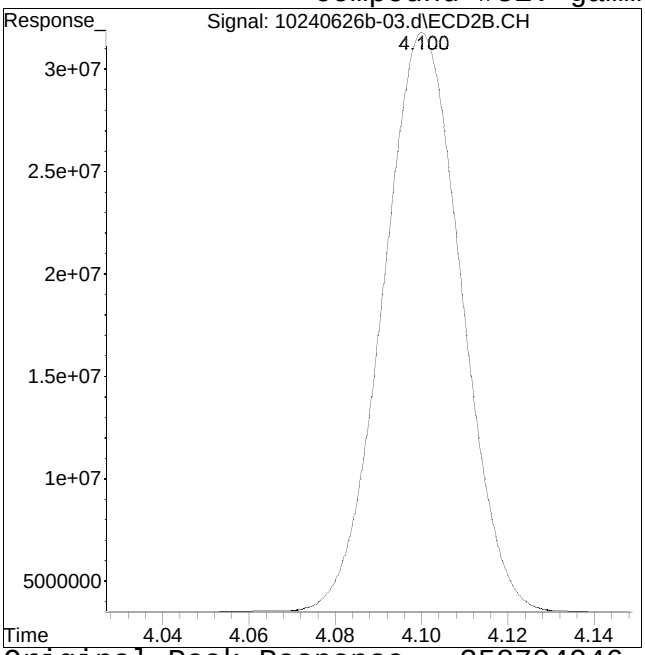
Manual Peak Response = 56123930 M4

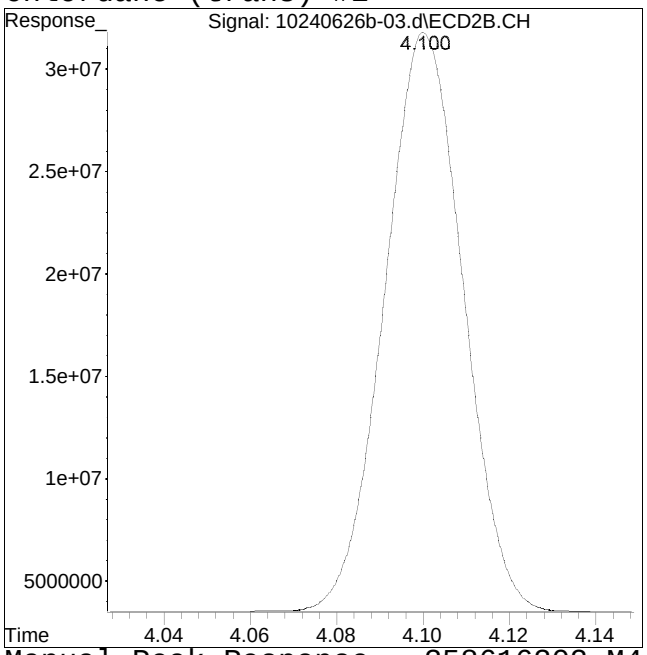
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240626QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240626b-03.d Operator : PEST10:jag
Date Inj'd : 6/26/2024 17:14 Instrument : Pest 10
Sample : wg1939871-1,42,,pest11595 Quant Date : 6/26/2024 5:32 pm

Compound #51: gamma-Chlordane (trans) #2



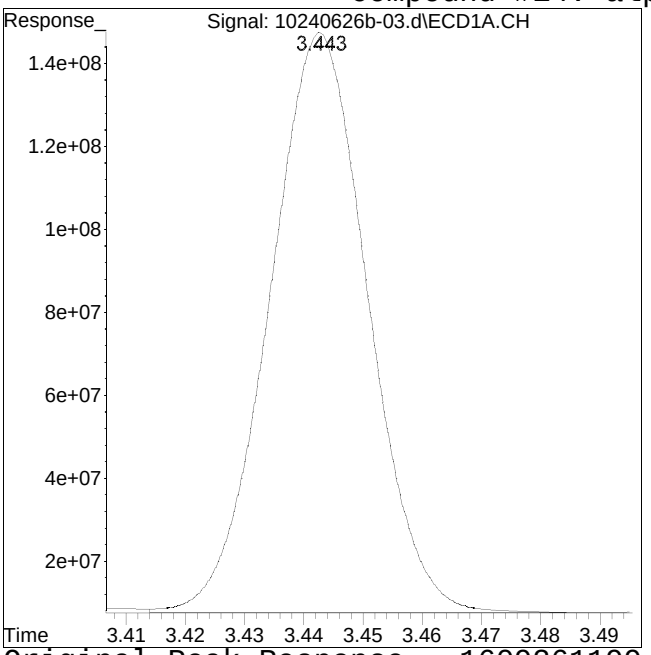


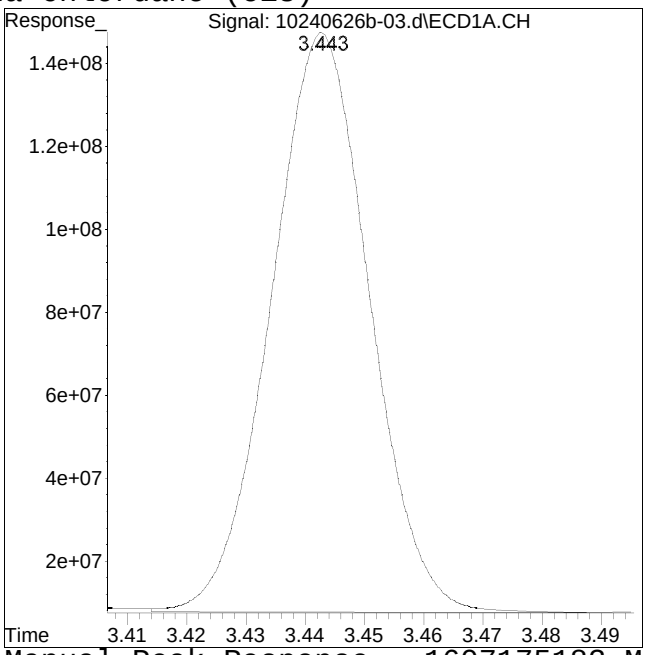
Original Peak Response = 358794946 Manual Peak Response = 358616302 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240626QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240626b-03.d Operator : PEST10:jag
Date Inj'd : 6/26/2024 17:14 Instrument : Pest 10
Sample : wg1939871-1,42,,pest11595 Quant Date : 6/26/2024 5:32 pm

Compound #14: alpha-Chlordane (cis)



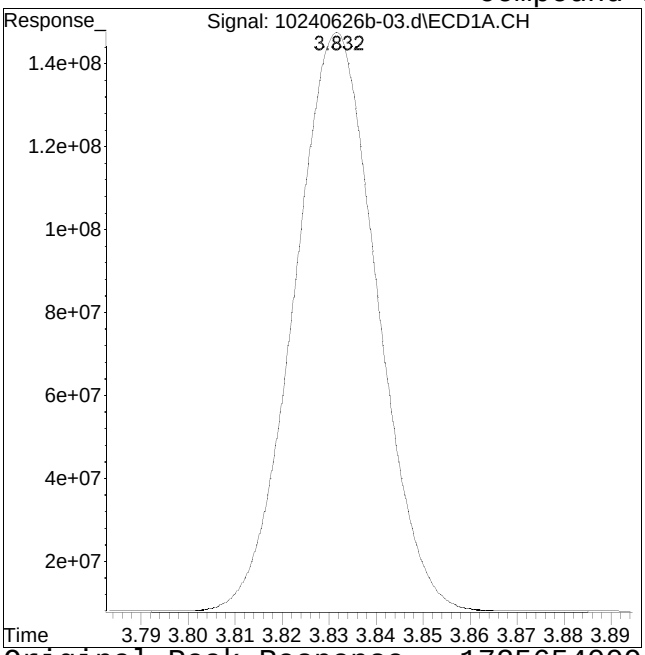


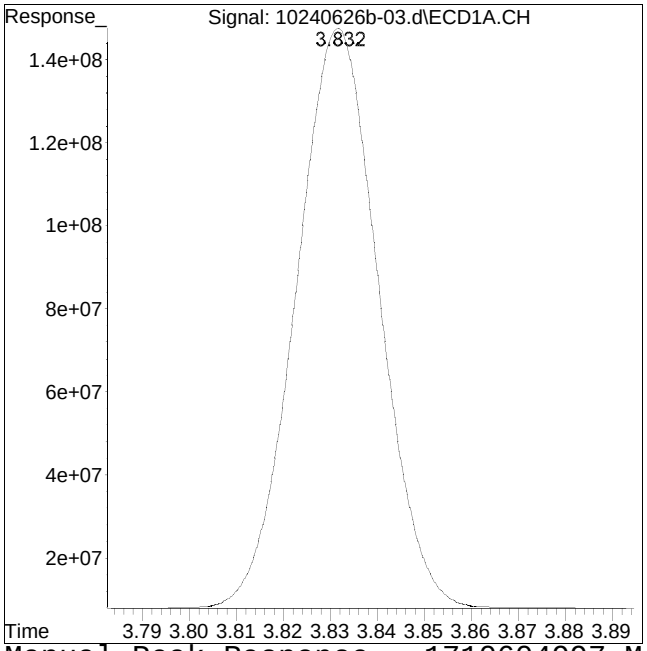
Original Peak Response = 1609261199 Manual Peak Response = 1607175183 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240626QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240626b-03.d Operator : PEST10:jag
Date Inj'd : 6/26/2024 17:14 Instrument : Pest 10
Sample : wg1939871-1,42,,pest11595 Quant Date : 6/26/2024 5:32 pm

Compound #17: Dieldrin



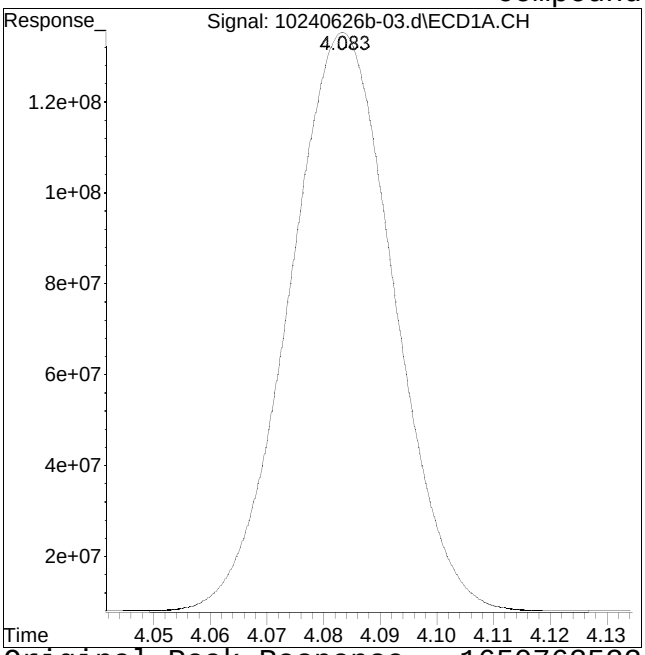


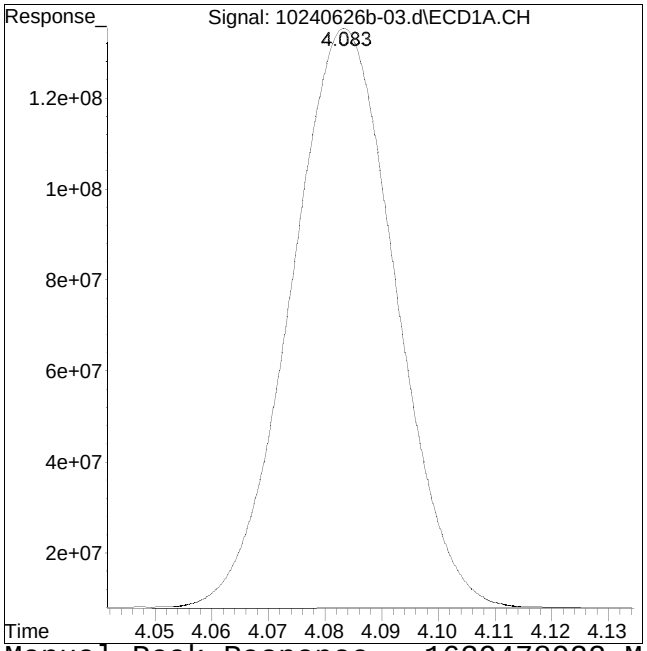
Original Peak Response = 1725654009 Manual Peak Response = 1710604997 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240626QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240626b-03.d Operator : PEST10:jag
Date Inj'd : 6/26/2024 17:14 Instrument : Pest 10
Sample : wg1939871-1,42,,pest11595 Quant Date : 6/26/2024 5:32 pm

Compound #18: Endrin



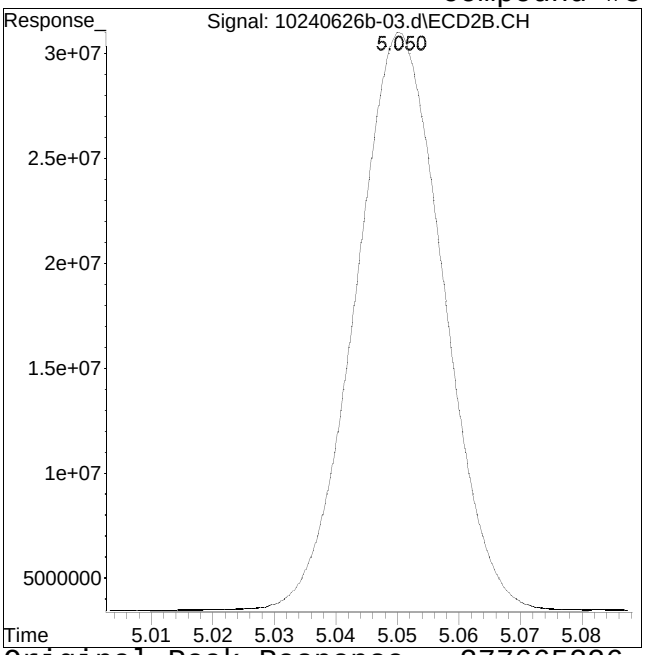


Original Peak Response = 1650763533 Manual Peak Response = 1639478922 M4
M4 = Poor automated baseline construction.

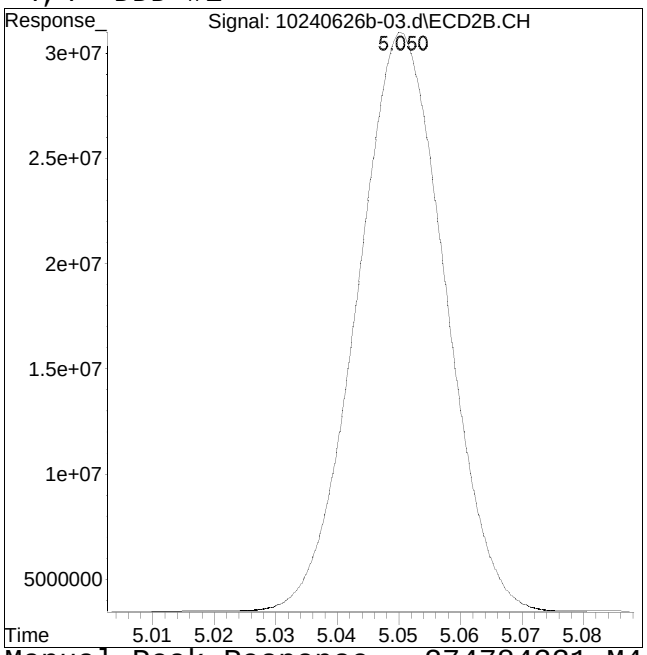
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240626QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240626b-03.d Operator : PEST10:jag
Date Inj'd : 6/26/2024 17:14 Instrument : Pest 10
Sample : wg1939871-1,42,,pest11595 Quant Date : 6/26/2024 5:32 pm

Compound #57: 4,4'-DDD #2



Original Peak Response = 277665226



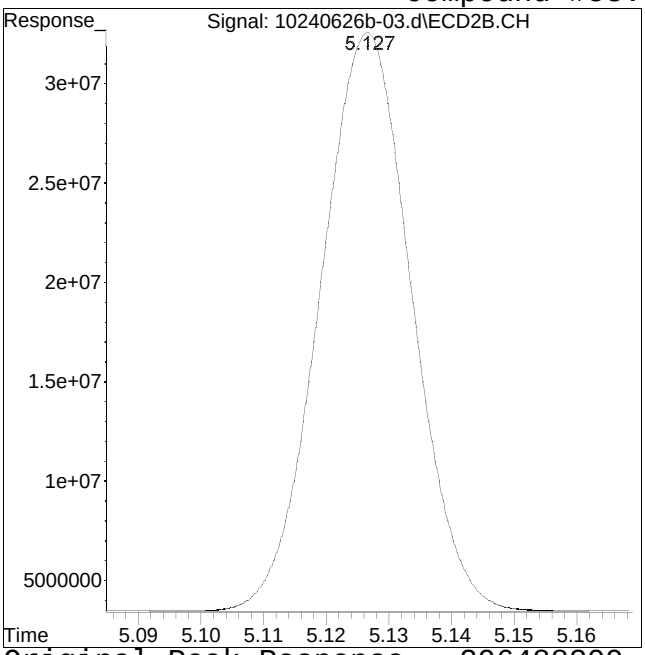
Manual Peak Response = 274784331 M4

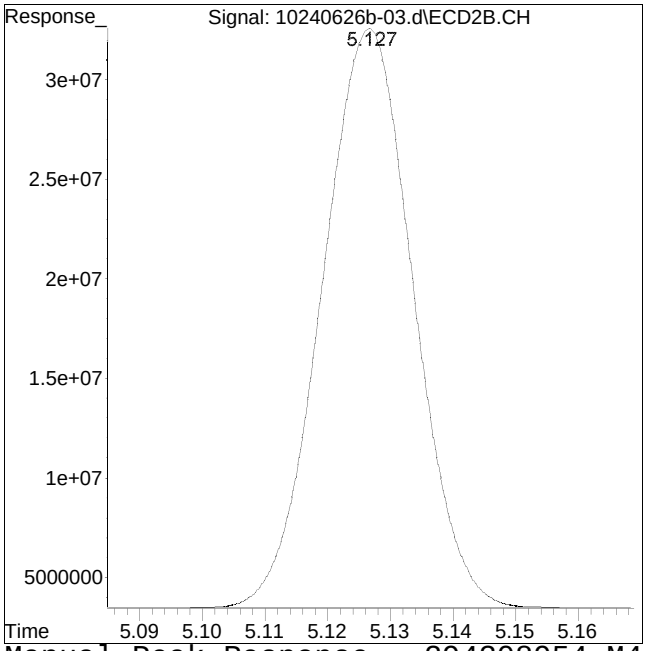
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240626QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240626b-03.d Operator : PEST10:jag
Date Inj'd : 6/26/2024 17:14 Instrument : Pest 10
Sample : wg1939871-1,42,,pest11595 Quant Date : 6/26/2024 5:32 pm

Compound #58: Endosulfan II #2



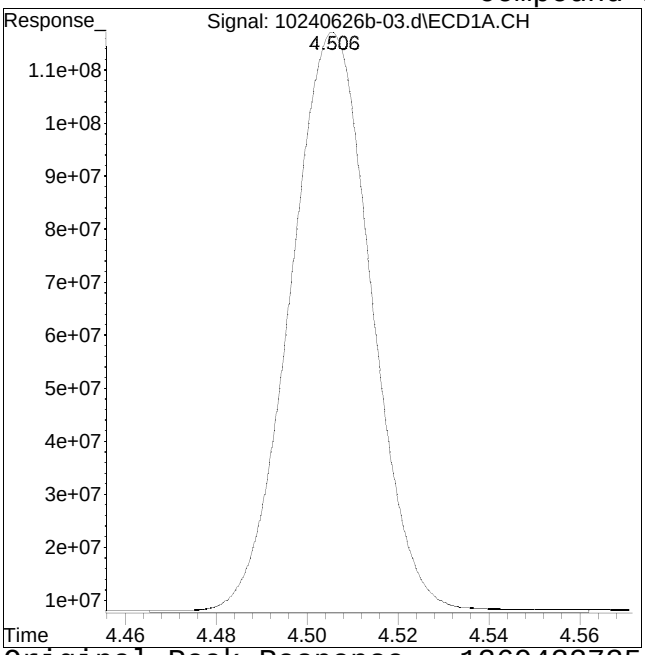


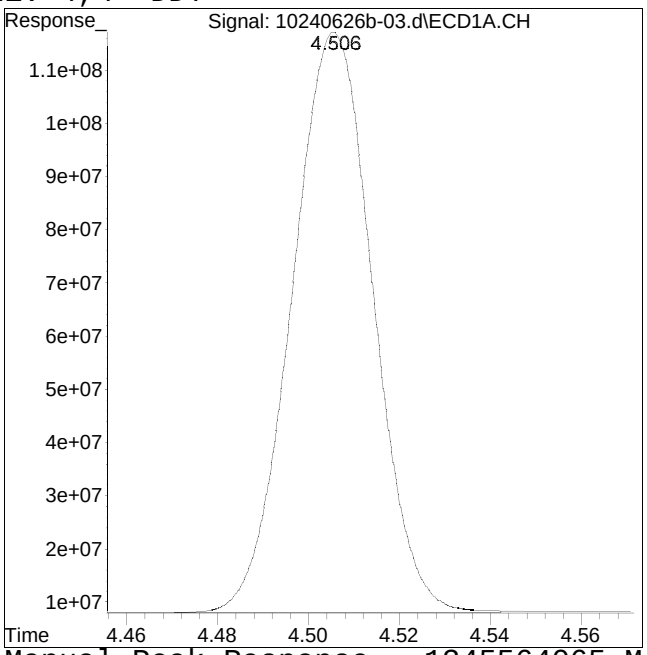
Original Peak Response = 296488309 Manual Peak Response = 294308954 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240626QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240626b-03.d Operator : PEST10:jag
Date Inj'd : 6/26/2024 17:14 Instrument : Pest 10
Sample : wg1939871-1,42,,pest11595 Quant Date : 6/26/2024 5:32 pm

Compound #21: 4,4'-DDT



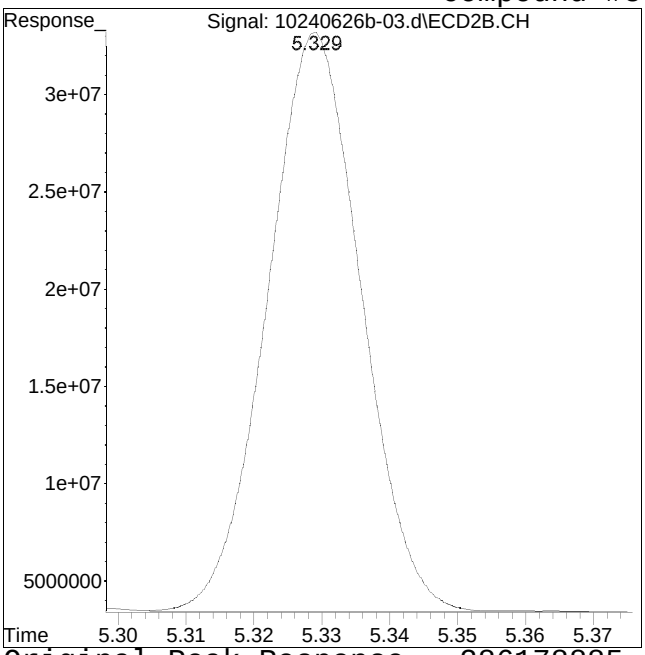


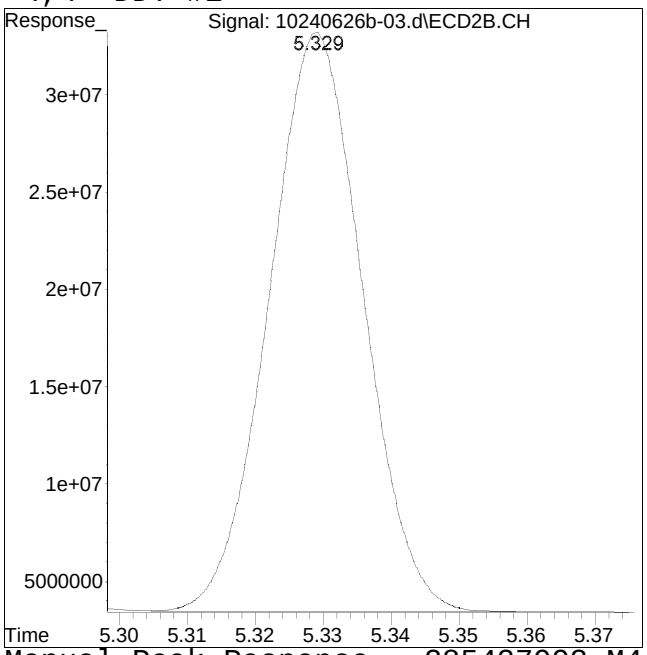
Original Peak Response = 1369433735 Manual Peak Response = 1345564065 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240626QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240626b-03.d Operator : PEST10:jag
Date Inj'd : 6/26/2024 17:14 Instrument : Pest 10
Sample : wg1939871-1,42,,pest11595 Quant Date : 6/26/2024 5:32 pm

Compound #59: 4,4'-DDT #2



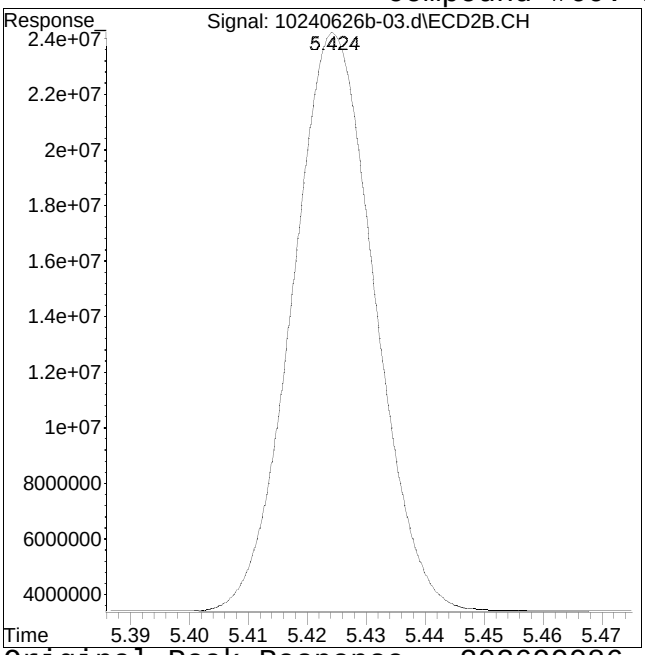


Original Peak Response = 286178885 Manual Peak Response = 285427993 M4
M4 = Poor automated baseline construction.

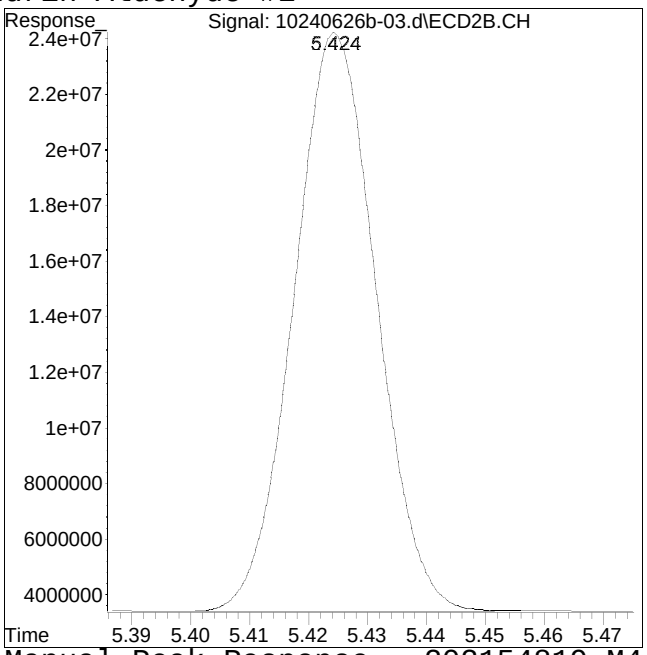
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240626QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240626b-03.d Operator : PEST10:jag
Date Inj'd : 6/26/2024 17:14 Instrument : Pest 10
Sample : wg1939871-1,42,,pest11595 Quant Date : 6/26/2024 5:32 pm

Compound #60: Endrin Aldehyde #2



Original Peak Response = 202699986



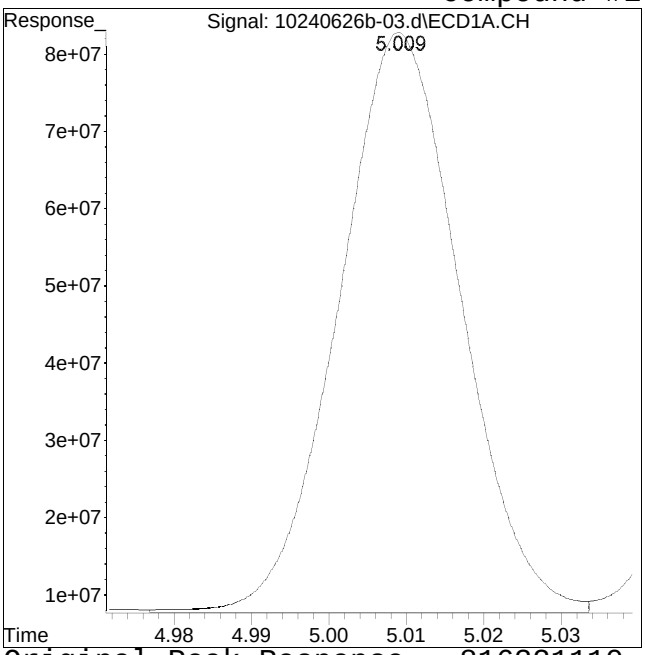
Manual Peak Response = 202154819 M4

M4 = Poor automated baseline construction.

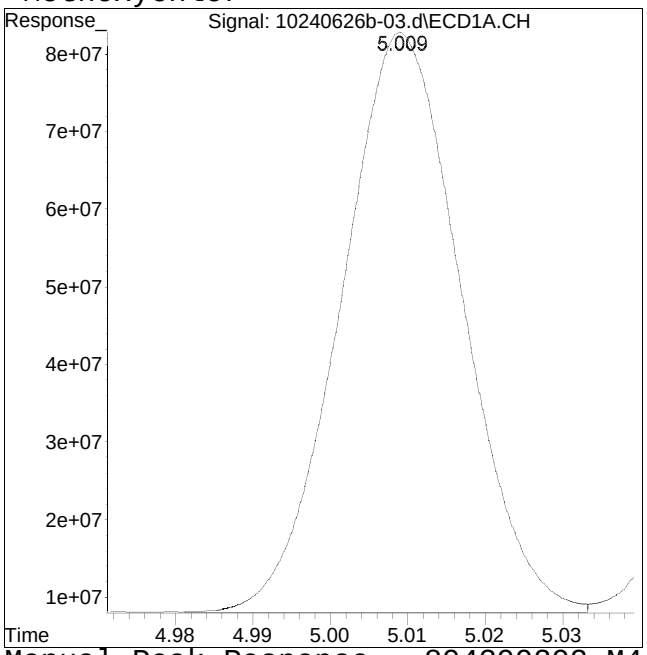
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240626QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240626b-03.d Operator : PEST10:jag
Date Inj'd : 6/26/2024 17:14 Instrument : Pest 10
Sample : wg1939871-1,42,,pest11595 Quant Date : 6/26/2024 5:32 pm

Compound #23: Methoxychlor



Original Peak Response = 816321110



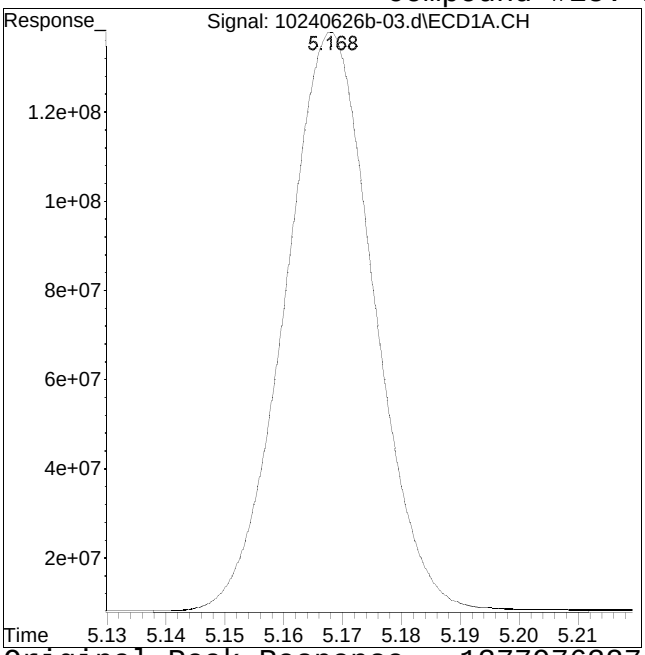
Manual Peak Response = 804399292 M4

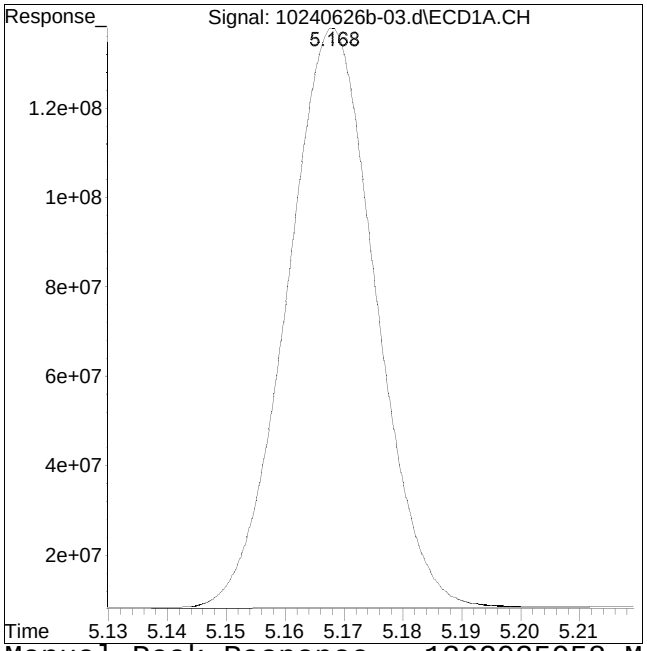
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240626QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240626b-03.d Operator : PEST10:jag
Date Inj'd : 6/26/2024 17:14 Instrument : Pest 10
Sample : wg1939871-1,42,,pest11595 Quant Date : 6/26/2024 5:32 pm

Compound #25: Endosulfan Sulfate



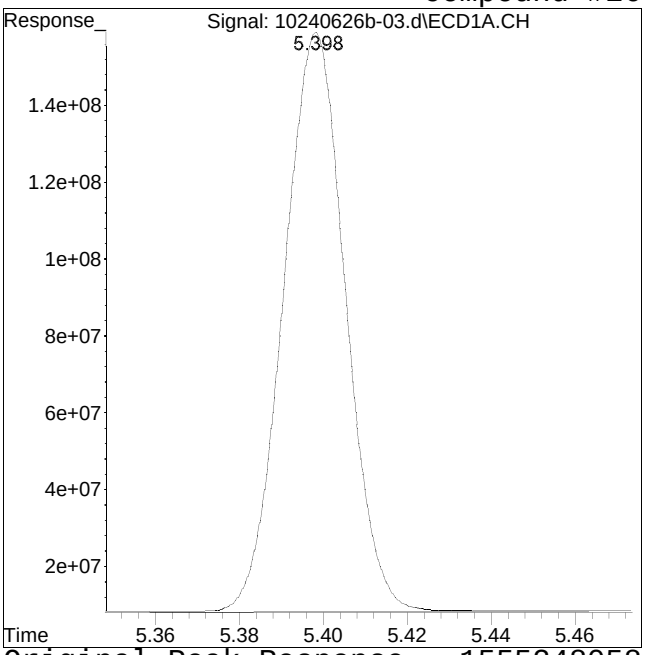


Original Peak Response = 1377976327 Manual Peak Response = 1362035958 M4
M4 = Poor automated baseline construction.

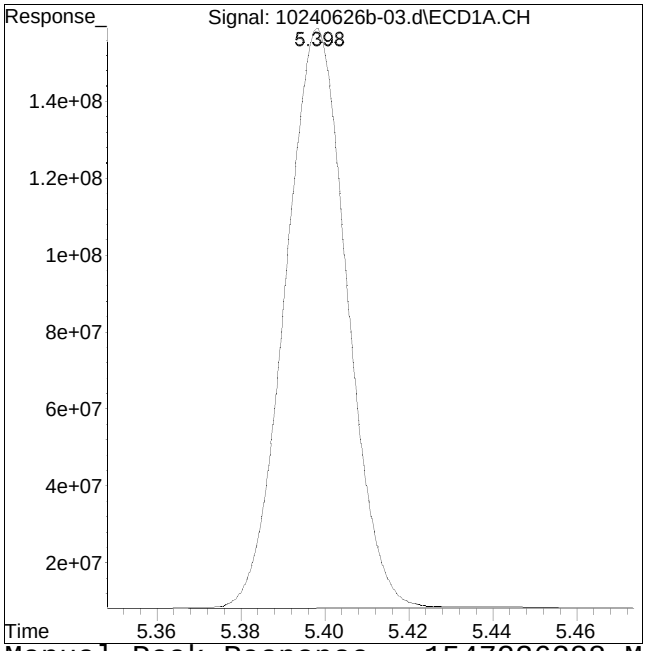
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240626QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240626b-03.d Operator : PEST10:jag
Date Inj'd : 6/26/2024 17:14 Instrument : Pest 10
Sample : wg1939871-1,42,,pest11595 Quant Date : 6/26/2024 5:32 pm

Compound #26: Endrin Ketone



Original Peak Response = 1555248058



Manual Peak Response = 1547236288 M4

M4 = Poor automated baseline construction.

Evaluate Continuing Calibration Report

Data Path : I:\PEST\Pest10\2024\240626B\
Data File : 10240626b-04.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 26 Jun 2024 17:25
Operator : PEST10:jag
Sample   : wg1939871-2,42,,chlor11612 (Sig #1); chlor11612 (Sig #2)
Misc   : wg1939871,,ical21109
ALS Vial : 4 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 26 17:37:12 2024
Quant Method : I:\PEST\Pest10\2024\240626B\pest10_2024_05_02_ugL_ical21109.m
Quant Title : pest
QLast Update : Wed Jun 26 17:37:04 2024
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
28	i	1-br-2-nb_Chlordane	^	1.000	1.000	0.0	129	0.00
29	l1	chlordane-1		*1000.000	1316.174	-31.6#	166	0.00
30	l1	chlordane-3		*1000.000	1048.338	-4.8	132	0.00
31	l1	chlordane-4		*1000.000	1343.754	-34.4#	163	0.00
32	l1	chlordane-5		*1000.000	1421.830	-42.2#	179	0.00

Signal #2

28	i	1-br-2-nb_Chlordane	^	1.000	1.000	0.0	99	0.00
29	l1	chlordane-1		*1000.000	1216.199	-21.6#	115	0.00
30	l1	chlordane-3		*1000.000	1201.251	-20.1#	114	0.00
31	l1	chlordane-4		*1000.000	1175.325	-17.5	113	0.00
32	l1	chlordane-5		*1000.000	1140.482	-14.0	109	0.00

Evaluate Continuing Calibration Report - Not Founds

1	i	1-br-2-nb_Pesticides	^	1.000	1.000	0.0	0	-1.25#
2	s	2,4,5,6-Tetrachloro-m-xylen		1.085	0.000	100.0#	0#	-1.58#
3	t	Hexachlorobenzene		1.160	0.000	100.0#	0#	-1.79#
4	t	alpha-BHC		1.510	0.000	100.0#	0#	-1.89#
5	t	gamma-BHC (lindane)		1.431	0.000	100.0#	0#	-2.08#
6	t	beta-BHC		* 50.000	0.000	100.0#	0	-2.14#
7	t	delta-BHC		1.412	0.000	100.0#	0#	-2.26#
8	t	Heptachlor		1.359	0.000	100.0#	0#	-2.42#
9	t	Aldrin		1.282	0.000	100.0#	0#	-2.66#
10	t	Alachlor		* 50.000	0.000	100.0#	0	-2.78#
11	t	Chlorpyrifos		* 50.000	0.000	100.0#	0	-2.87#
12	t	Heptachlor Epoxide		1.221	0.000	100.0#	0#	-3.19#
13	t	gamma-Chlordane (trans)		1.117	0.000	100.0#	0#	-3.31#

Evaluate Continuing Calibration Report

Data Path : I:\PEST\Pest10\2024\240626B\
Data File : 10240626b-04.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 26 Jun 2024 17:25
Operator : PEST10:jag
Sample   : wg1939871-2,42,,chlor11612 (Sig #1); chlor11612 (Sig #2)
Misc   : wg1939871,,ical21109
ALS Vial : 4 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 26 17:37:12 2024
Quant Method : I:\PEST\Pest10\2024\240626B\pest10_2024_05_02_ugL_ical21109.m
Quant Title : pest
QLast Update : Wed Jun 26 17:37:04 2024
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
14	t	alpha-Chlordane (cis)		1.269	0.000	100.0#	0#	-3.44#
15	t	4,4'-DDE		1.202	0.000	100.0#	0#	-3.54#
16	t	Endosulfan I		1.163	0.000	100.0#	0#	-3.58#
17	t	Dieldrin		1.200	0.000	100.0#	0#	-3.83#
18	t	Endrin		1.233	0.000	100.0#	0#	-4.08#
19	t	4,4'-DDD		0.977	0.000	100.0#	0#	-4.20#
20	t	Endosulfan II		1.064	0.000	100.0#	0#	-4.33#
21	t	4,4'-DDT		1.081	0.000	100.0#	0#	-4.51#
22	t	Endrin Aldehyde	*	50.000	0.000	100.0#	0	-4.77#
23	t	Methoxychlor	*	50.000	0.000	100.0#	0	-5.01#
24	t	Mirex	*	50.000	0.000	100.0#	0	-5.06#
25	t	Endosulfan Sulfate		1.055	0.000	100.0#	0#	-5.17#
26	t	Endrin Ketone		1.157	0.000	100.0#	0#	-5.40#
27	s	Decachlorobiphenyl	*	50.000	0.000	100.0#	0	-6.21#
33	i	1-br-2-nb_Toxaphene	^	1.000	1.000	0.0	0	-1.25#
34	l2	toxaphene-1	*	2000.000	0.000	100.0#	0	-4.33#
35	l2	toxaphene-2	*	2000.000	0.000	100.0#	0	-4.45#
36	l2	toxaphene-4	*	2000.000	0.000	100.0#	0	-4.88#
37	l2	toxaphene-5	*	2000.000	0.000	100.0#	0	-5.07#

Signal #2

1	i	1-br-2-nb_Pesticides	^	1.000	1.000	0.0	0	-1.36#
2	s	2,4,5,6-Tetrachloro-m-xyl		0.940	0.000	100.0#	0#	-1.84#
3	t	Hexachlorobenzene		1.080	0.000	100.0#	0#	-2.16#
4	t	alpha-BHC		1.339	0.000	100.0#	0#	-2.26#
5	t	gamma-BHC (lindane)		1.257	0.000	100.0#	0#	-2.55#
6	t	beta-BHC	*	50.000	0.000	100.0#	0	-2.61#
7	t	delta-BHC		1.262	0.000	100.0#	0#	-2.88#

Evaluate Continuing Calibration Report

Data Path : I:\PEST\Pest10\2024\240626B\
Data File : 10240626b-04.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 26 Jun 2024 17:25
Operator : PEST10:jag
Sample   : wg1939871-2,42,,chlor11612 (Sig #1); chlor11612 (Sig #2)
Misc   : wg1939871,,ical21109
ALS Vial : 4 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 26 17:37:12 2024
Quant Method : I:\PEST\Pest10\2024\240626B\pest10_2024_05_02_ugL_ical21109.m
Quant Title : pest
QLast Update : Wed Jun 26 17:37:04 2024
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
8	t	Heptachlor		1.248	0.000	100.0#	0#	-2.94#
9	t	Aldrin		1.137	0.000	100.0#	0#	-3.26#
10	t	Alachlor	*	50.000	0.000	100.0#	0	-3.15#
11	t	Chlorpyrifos	*	50.000	0.000	100.0#	0	-3.50#
12	t	Heptachlor Epoxide		1.137	0.000	100.0#	0#	-3.88#
13	t	gamma-Chlordane (trans)		1.011	0.000	100.0#	0#	-4.10#
14	t	alpha-Chlordane (cis)		1.137	0.000	100.0#	0#	-4.27#
15	t	4,4'-DDE		1.052	0.000	100.0#	0#	-4.47#
16	t	Endosulfan I		1.058	0.000	100.0#	0#	-4.33#
17	t	Dieldrin		1.059	0.000	100.0#	0#	-4.63#
18	t	Endrin		1.086	0.000	100.0#	0#	-4.93#
19	t	4,4'-DDD		0.846	0.000	100.0#	0#	-5.05#
20	t	Endosulfan II		0.951	0.000	100.0#	0#	-5.13#
21	t	4,4'-DDT		0.960	0.000	100.0#	0#	-5.33#
22	t	Endrin Aldehyde	*	50.000	0.000	100.0#	0	-5.42#
23	t	Methoxychlor	*	50.000	0.000	100.0#	0	-5.90#
24	t	Mirex	*	50.000	0.000	100.0#	0	-6.03#
25	t	Endosulfan Sulfate		0.948	0.000	100.0#	0#	-5.65#
26	t	Endrin Ketone		1.033	0.000	100.0#	0#	-6.07#
27	s	Decachlorobiphenyl	*	50.000	0.000	100.0#	0	-6.94#
33	i	1-br-2-nb_Toxaphene	^	1.000	1.000	0.0	0	-1.36#
34	l2	toxaphene-1	*	2000.000	0.000	100.0#	0	-5.09#
35	l2	toxaphene-2	*	2000.000	0.000	100.0#	0	-5.11#
36	l2	toxaphene-4	*	2000.000	0.000	100.0#	0	-5.43#
37	l2	toxaphene-5	*	2000.000	0.000	100.0#	0	-5.84#

* Evaluation of CC level amount vs concentration.
(#) = Out of Range SPCC's out = 0 CCC's out = 0
(^) = ISTD area calculated using ICAL average

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest10\2024\240626B\
Data File : 10240626b-04.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 26 Jun 2024 17:25
Operator : PEST10:jag
Sample : wg1939871-2,42,,chlor11612 (Sig #1); chlor11612 (Sig #2)
Misc : wg1939871,,ical21109
ALS Vial : 4 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 26 17:37:12 2024
Quant Method : I:\PEST\Pest10\2024\240626B\pest10_2024_05_02_ugL_ical21109.m
Quant Title : pest
QLast Update : Wed Jun 26 17:37:04 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	0.000	0.000	0	0	N.D. d	N.D. d
28) i	1-br-2-nb_Ch	1.247	1.363	486.0E6	141.9E6	25.000M4	25.000M4
33) i	1-br-2-nb_To	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150		Recovery =	0.00%#	0.00%#
27) s	Decachlorobi	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150		Recovery =	0.00%#	0.00%#
	Target Compounds						
3) t	Hexachlorobe	0.000	0.000	0	0	N.D. d	N.D. d
4) t	alpha-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5) t	gamma-BHC (l	0.000	0.000	0	0	N.D. d	N.D. d
6) t	beta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7) t	delta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
8) t	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
9) t	Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
10) t	Alachlor	0.000	0.000	0	0	N.D. d	N.D. d
11) t	Chlorpyrifos	0.000	0.000	0	0	N.D. d	N.D. d
12) t	Heptachlor E	0.000	0.000	0	0	N.D. d	N.D. d
13) t	gamma-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
14) t	alpha-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
15) t	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
16) t	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
17) t	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
18) t	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
19) t	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
20) t	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
21) t	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
22) t	Endrin Aldeh	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest10\2024\240626B\
Data File : 10240626b-04.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 26 Jun 2024 17:25
Operator : PEST10:jag
Sample : wg1939871-2,42,,chlor11612 (Sig #1); chlor11612 (Sig #2)
Misc : wg1939871,,ical21109
ALS Vial : 4 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 26 17:37:12 2024
Quant Method : I:\PEST\Pest10\2024\240626B\pest10_2024_05_02_ugL_ical21109.m
Quant Title : pest
QLast Update : Wed Jun 26 17:37:04 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
23) t	Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d
24) t	Mirex	0.000	0.000	0	0	N.D. d	N.D. d
25) t	Endosulfan S	0.000	0.000	0	0	N.D. d	N.D. d
26) t	Endrin Keton	0.000	0.000	0	0	N.D. d	N.D. d
29) l1	chlordane-1	2.360	2.809	918.5E6	221.7E6	1316.174M4	1216.199
30) l1	chlordane-3	2.421	3.416	1475.2E6	254.8E6	1048.338M4	1201.251
31) l1	chlordane-4	2.768	4.100	1072.0E6	877.1E6	1343.754M4	1175.325
32) l1	chlordane-5	3.311	4.273	4332.4E6	667.2E6	1421.830M4	1140.482
Sum	chlordane-1			7798.1E6	2020.9E6	N.D.	N.D. D
Average	chlordane-1					1282.524	1183.315
34) l2	toxaphene-1	0.000	0.000	0	0	N.D. d	N.D. d
35) l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
36) l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
37) l2	toxaphene-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

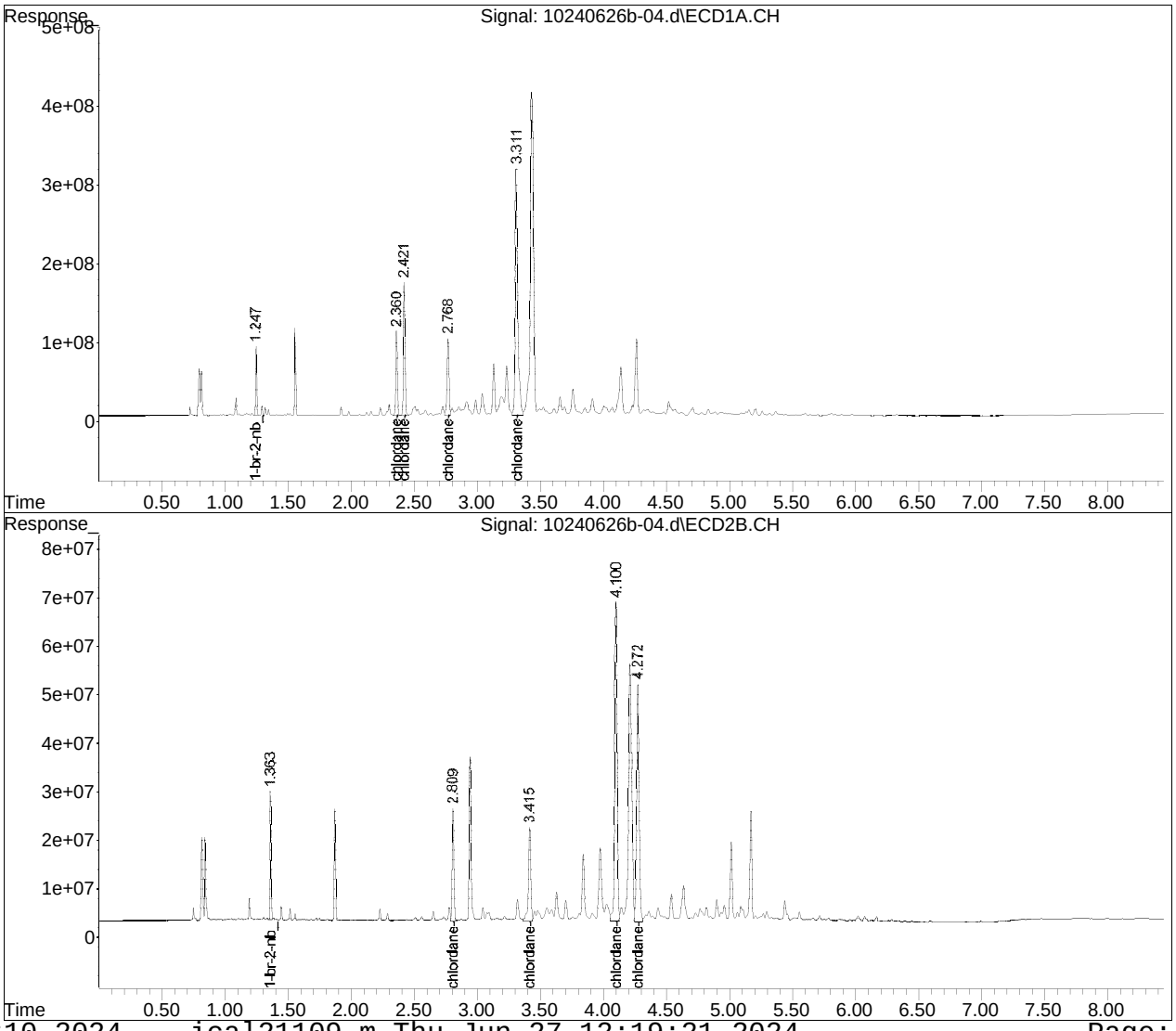
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest10\2024\240626B\
Data File : 10240626b-04.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 26 Jun 2024 17:25
Operator : PEST10:jag
Sample : wg1939871-2,42,,chlor11612 (Sig #1); chlor11612 (Sig #2)
Misc : wg1939871,,ical21109
ALS Vial : 4 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 26 17:37:12 2024
Quant Method : I:\PEST\Pest10\2024\240626B\pest10_2024_05_02_ugL_ical21109.m
Quant Title : pest
QLast Update : Wed Jun 26 17:37:04 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

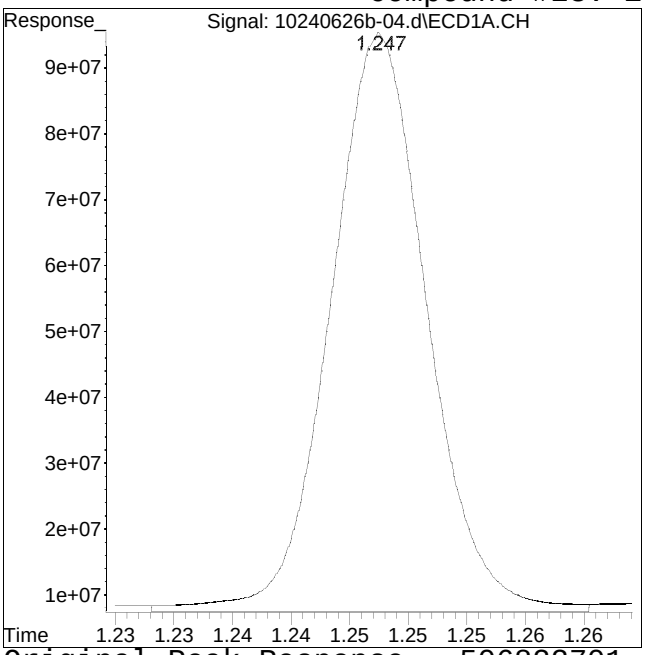
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

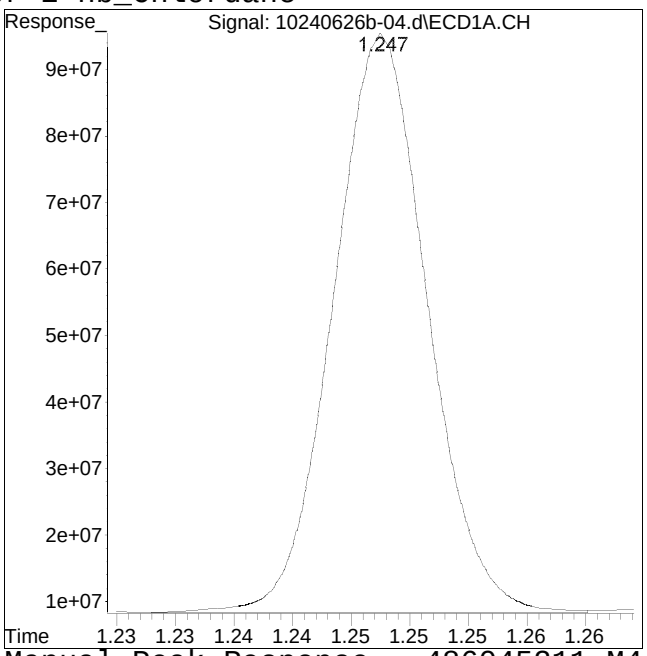


Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240626QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240626b-04.d Operator : PEST10:jag
Date Inj'd : 6/26/2024 17:25 Instrument : Pest 10
Sample : wg1939871-2,42,,chlor11612Quant Date : 6/26/2024 5:37 pm

Compound #28: 1-br-2-nb_Chlordane



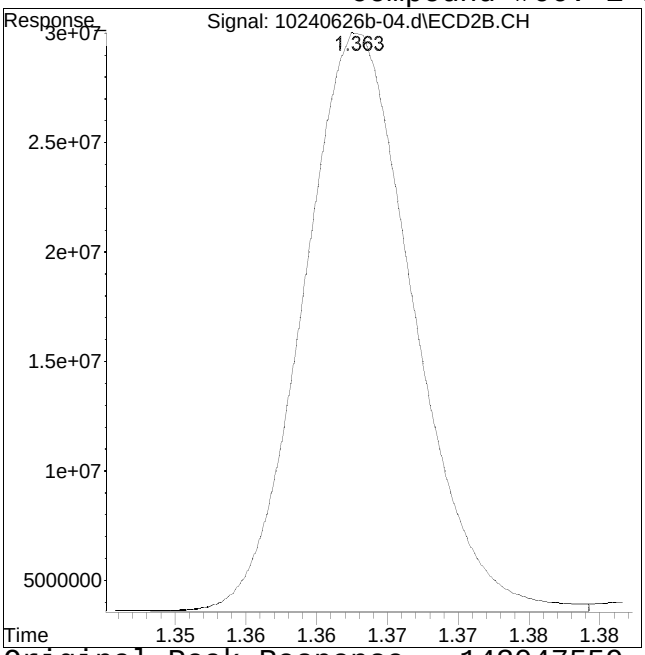


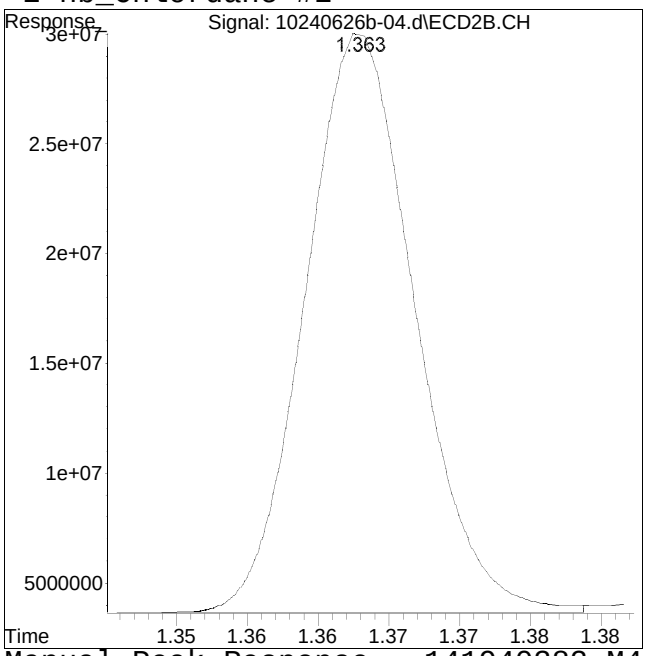
Original Peak Response = 506822701 Manual Peak Response = 486045211 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240626QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240626b-04.d Operator : PEST10:jag
Date Inj'd : 6/26/2024 17:25 Instrument : Pest 10
Sample : wg1939871-2,42,,chlor11612Quant Date : 6/26/2024 5:37 pm

Compound #66: 1-br-2-nb_Chlordane #2



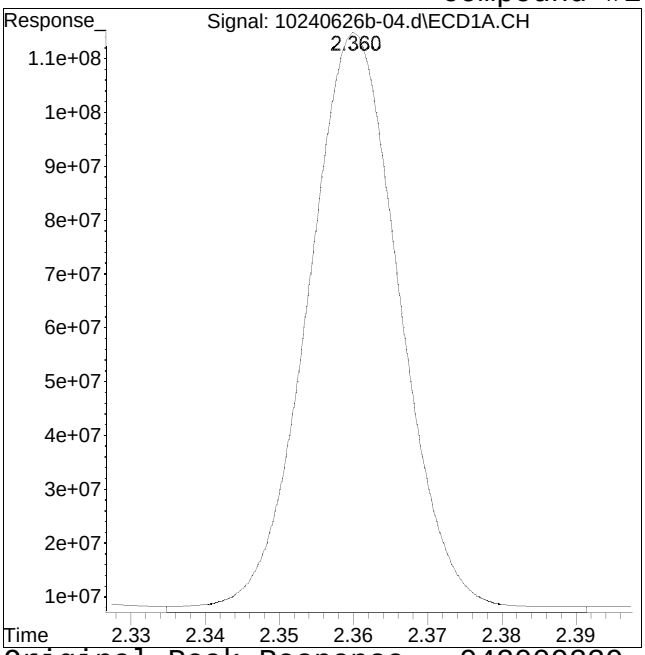


Original Peak Response = 143047559 Manual Peak Response = 141940382 M4
M4 = Poor automated baseline construction.

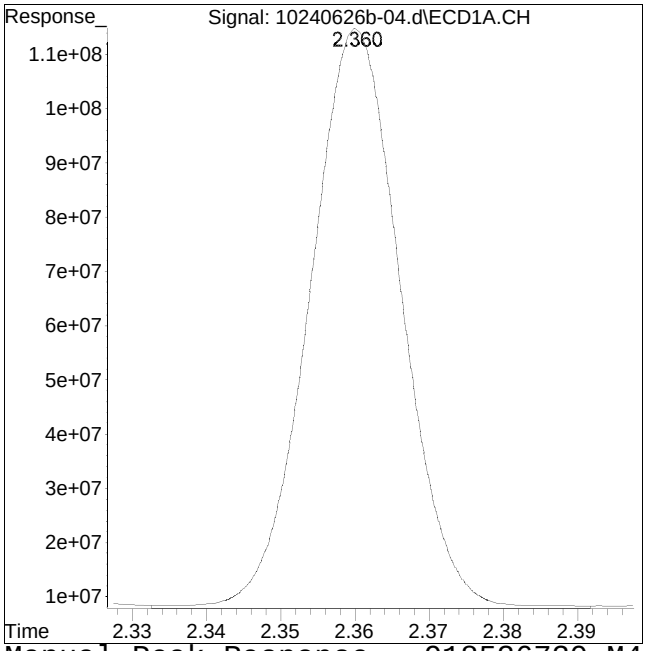
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240626QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240626b-04.d Operator : PEST10:jag
Date Inj'd : 6/26/2024 17:25 Instrument : Pest 10
Sample : wg1939871-2,42,,chlor11612Quant Date : 6/26/2024 5:37 pm

Compound #29: chlordane-1



Original Peak Response = 942009339



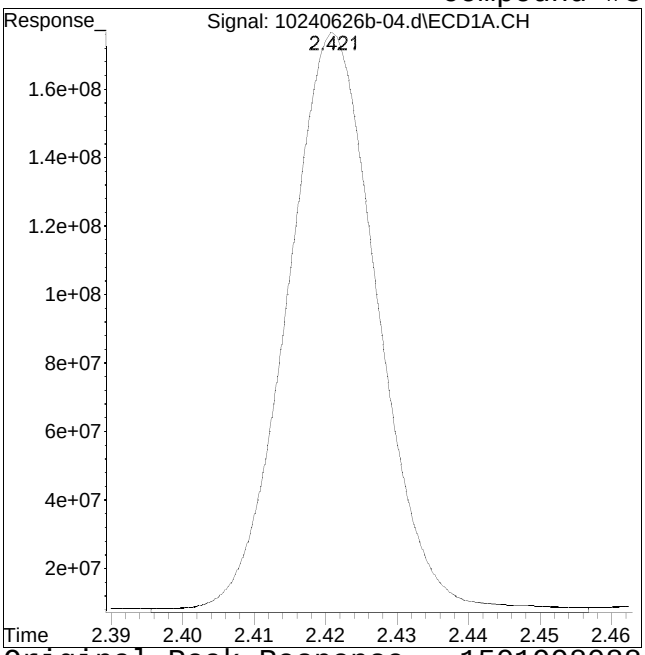
Manual Peak Response = 918536730 M4

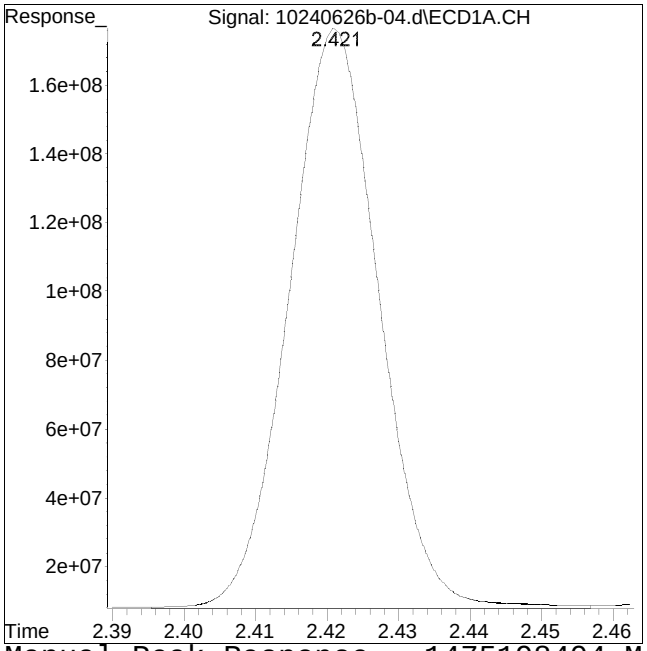
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240626QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240626b-04.d Operator : PEST10:jag
Date Inj'd : 6/26/2024 17:25 Instrument : Pest 10
Sample : wg1939871-2,42,,chlor11612Quant Date : 6/26/2024 5:37 pm

Compound #30: chlordane-3



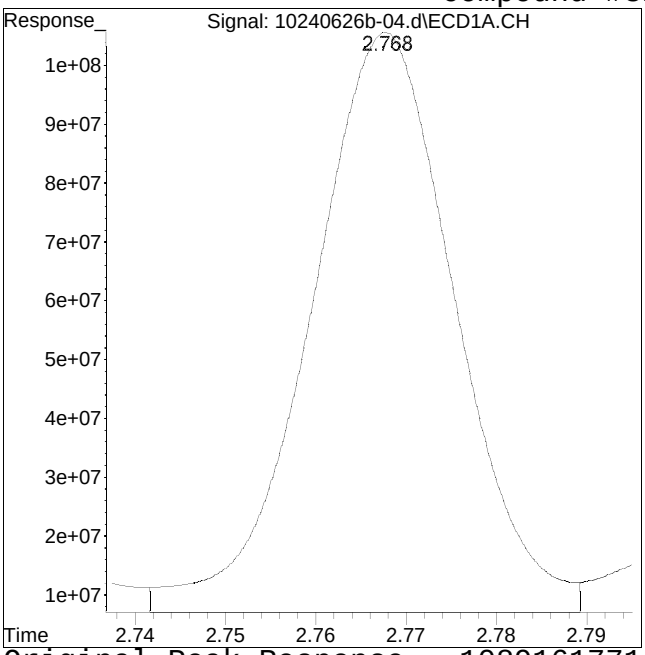


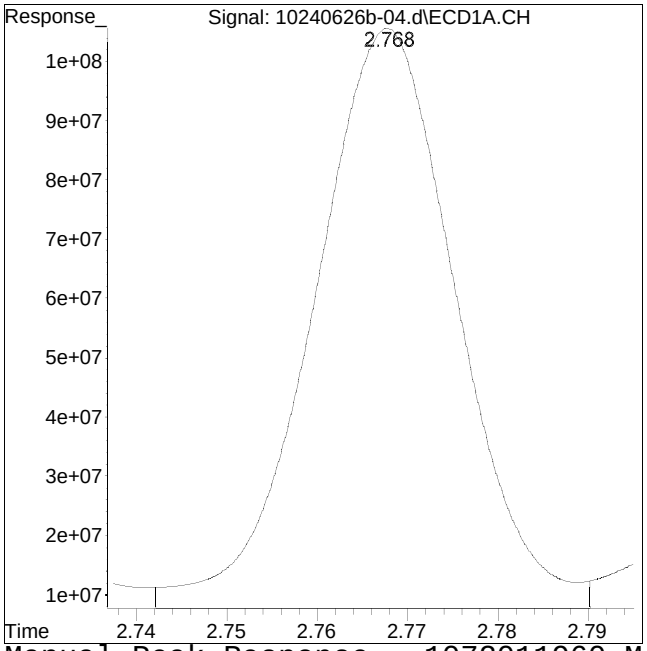
Original Peak Response = 1501998088 Manual Peak Response = 1475198404 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240626QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240626b-04.d Operator : PEST10:jag
Date Inj'd : 6/26/2024 17:25 Instrument : Pest 10
Sample : wg1939871-2,42,,chlor11612Quant Date : 6/26/2024 5:37 pm

Compound #31: chlordane-4



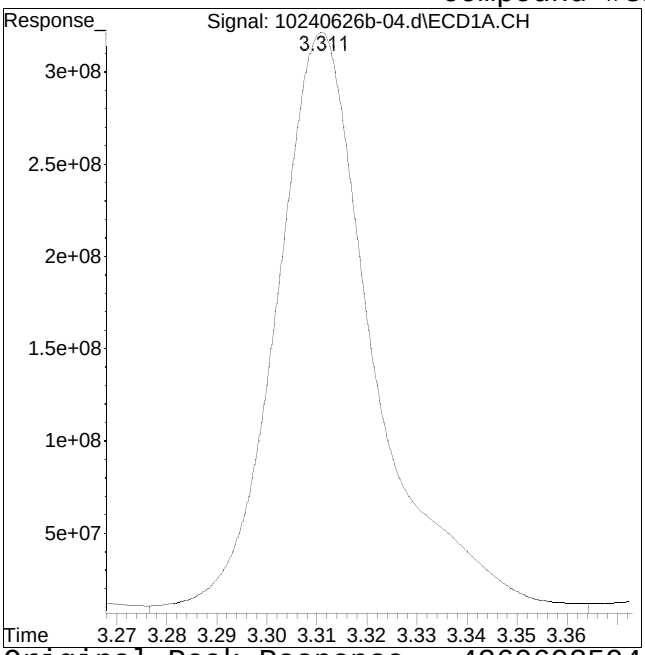


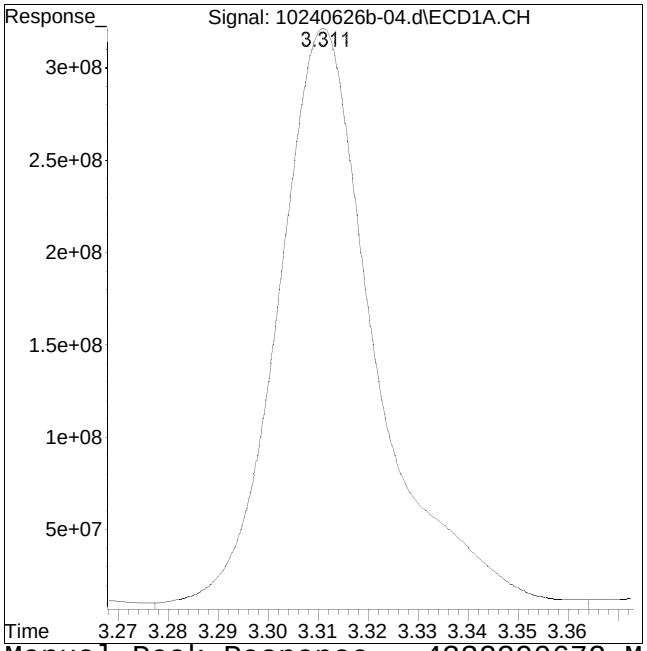
Original Peak Response = 1089161771 Manual Peak Response = 1072011960 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240626QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240626b-04.d Operator : PEST10:jag
Date Inj'd : 6/26/2024 17:25 Instrument : Pest 10
Sample : wg1939871-2,42,,chlor11612Quant Date : 6/26/2024 5:37 pm

Compound #32: chlordane-5





Original Peak Response = 4360693594 Manual Peak Response = 4332390672 M4
M4 = Poor automated baseline construction.

Evaluate Continuing Calibration Report

Data Path : I:\PEST\Pest10\2024\240626B\
Data File : 10240626b-05.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 26 Jun 2024 17:36
Operator : PEST10:peg
Sample   : wg1939871-3,42,,tox11615 (Sig #1); tox11615 (Sig #2)
Misc   : wg1939871,,ical21109
ALS Vial : 5 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 27 06:53:43 2024
Quant Method : I:\PEST\Pest10\2024\240626B\pest10_2024_05_02_ugL_ical21109.m
Quant Title : pest
QLast Update : Thu Jun 27 06:53:34 2024
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
33	i	1-br-2-nb_Toxaphene	^	1.000	1.000	0.0	159	0.00
34	l2	toxaphene-1		*2000.000	2429.680	-21.5#	195	0.00
35	l2	toxaphene-2		*2000.000	2382.288	-19.1	191	0.00
36	l2	toxaphene-4		*2000.000	2594.675	-29.7#	208	0.00
37	l2	toxaphene-5		*2000.000	2426.970	-21.3#	195	0.00

Signal #2

33	i	1-br-2-nb_Toxaphene	^	1.000	1.000	0.0	117	0.00
34	l2	toxaphene-1		*2000.000	2088.571	-4.4	123	0.00
35	l2	toxaphene-2		*2000.000	2100.590	-5.0	125	0.00
36	l2	toxaphene-4		*2000.000	1844.121	7.8	110	0.00
37	l2	toxaphene-5		*2000.000	1796.167	10.2	107	0.00

Evaluate Continuing Calibration Report - Not Founds

1	i	1-br-2-nb_Pesticides	^	1.000	1.000	0.0	0	-1.25#
2	s	2,4,5,6-Tetrachloro-m-xylen		1.085	0.000	100.0#	0#	-1.58#
3	t	Hexachlorobenzene		1.160	0.000	100.0#	0#	-1.79#
4	t	alpha-BHC		1.510	0.000	100.0#	0#	-1.89#
5	t	gamma-BHC (lindane)		1.431	0.000	100.0#	0#	-2.08#
6	t	beta-BHC		* 50.000	0.000	100.0#	0	-2.14#
7	t	delta-BHC		1.412	0.000	100.0#	0#	-2.26#
8	t	Heptachlor		1.359	0.000	100.0#	0#	-2.42#
9	t	Aldrin		1.282	0.000	100.0#	0#	-2.66#
10	t	Alachlor		* 50.000	0.000	100.0#	0	-2.78#
11	t	Chlorpyrifos		* 50.000	0.000	100.0#	0	-2.87#
12	t	Heptachlor Epoxide		1.221	0.000	100.0#	0#	-3.19#
13	t	gamma-Chlordane (trans)		1.117	0.000	100.0#	0#	-3.31#

Evaluate Continuing Calibration Report

Data Path : I:\PEST\Pest10\2024\240626B\
Data File : 10240626b-05.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 26 Jun 2024 17:36
Operator : PEST10:peg
Sample   : wg1939871-3,42,,tox11615 (Sig #1); tox11615 (Sig #2)
Misc   : wg1939871,,ical21109
ALS Vial : 5 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 27 06:53:43 2024
Quant Method : I:\PEST\Pest10\2024\240626B\pest10_2024_05_02_ugL_ical21109.m
Quant Title : pest
QLast Update : Thu Jun 27 06:53:34 2024
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
14	t	alpha-Chlordane (cis)		1.269	0.000	100.0#	0#	-3.44#
15	t	4,4'-DDE		1.202	0.000	100.0#	0#	-3.54#
16	t	Endosulfan I		1.163	0.000	100.0#	0#	-3.58#
17	t	Dieldrin		1.200	0.000	100.0#	0#	-3.83#
18	t	Endrin		1.233	0.000	100.0#	0#	-4.08#
19	t	4,4'-DDD		0.977	0.000	100.0#	0#	-4.20#
20	t	Endosulfan II		1.064	0.000	100.0#	0#	-4.33#
21	t	4,4'-DDT		1.081	0.000	100.0#	0#	-4.51#
22	t	Endrin Aldehyde	*	50.000	0.000	100.0#	0	-4.77#
23	t	Methoxychlor	*	50.000	0.000	100.0#	0	-5.01#
24	t	Mirex	*	50.000	0.000	100.0#	0	-5.06#
25	t	Endosulfan Sulfate		1.055	0.000	100.0#	0#	-5.17#
26	t	Endrin Ketone		1.157	0.000	100.0#	0#	-5.40#
27	s	Decachlorobiphenyl	*	50.000	0.000	100.0#	0	-6.21#
28	i	1-br-2-nb_Chlordane	^	1.000	1.000	0.0	0	-1.25#
29	l1	chlordane-1	*	1000.000	0.000	100.0#	0	-2.36#
30	l1	chlordane-3	*	1000.000	0.000	100.0#	0	-2.42#
31	l1	chlordane-4	*	1000.000	0.000	100.0#	0	-2.77#
32	l1	chlordane-5	*	1000.000	0.000	100.0#	0	-3.31#

Signal #2

1	i	1-br-2-nb_Pesticides	^	1.000	1.000	0.0	0	-1.36#
2	s	2,4,5,6-Tetrachloro-m-xyl		0.940	0.000	100.0#	0#	-1.84#
3	t	Hexachlorobenzene		1.080	0.000	100.0#	0#	-2.16#
4	t	alpha-BHC		1.339	0.000	100.0#	0#	-2.26#
5	t	gamma-BHC (lindane)		1.257	0.000	100.0#	0#	-2.55#
6	t	beta-BHC	*	50.000	0.000	100.0#	0	-2.61#
7	t	delta-BHC		1.262	0.000	100.0#	0#	-2.88#

Evaluate Continuing Calibration Report

Data Path : I:\PEST\Pest10\2024\240626B\
Data File : 10240626b-05.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 26 Jun 2024 17:36
Operator : PEST10:peg
Sample   : wg1939871-3,42,,tox11615 (Sig #1); tox11615 (Sig #2)
Misc   : wg1939871,,ical21109
ALS Vial : 5 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 27 06:53:43 2024
Quant Method : I:\PEST\Pest10\2024\240626B\pest10_2024_05_02_ugL_ical21109.m
Quant Title : pest
QLast Update : Thu Jun 27 06:53:34 2024
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
8	t	Heptachlor		1.248	0.000	100.0#	0#	-2.94#
9	t	Aldrin		1.137	0.000	100.0#	0#	-3.26#
10	t	Alachlor	*	50.000	0.000	100.0#	0	-3.15#
11	t	Chlorpyrifos	*	50.000	0.000	100.0#	0	-3.50#
12	t	Heptachlor Epoxide		1.137	0.000	100.0#	0#	-3.88#
13	t	gamma-Chlordane (trans)		1.011	0.000	100.0#	0#	-4.10#
14	t	alpha-Chlordane (cis)		1.137	0.000	100.0#	0#	-4.27#
15	t	4,4'-DDE		1.052	0.000	100.0#	0#	-4.47#
16	t	Endosulfan I		1.058	0.000	100.0#	0#	-4.33#
17	t	Dieldrin		1.059	0.000	100.0#	0#	-4.63#
18	t	Endrin		1.086	0.000	100.0#	0#	-4.93#
19	t	4,4'-DDD		0.846	0.000	100.0#	0#	-5.05#
20	t	Endosulfan II		0.951	0.000	100.0#	0#	-5.13#
21	t	4,4'-DDT		0.960	0.000	100.0#	0#	-5.33#
22	t	Endrin Aldehyde	*	50.000	0.000	100.0#	0	-5.42#
23	t	Methoxychlor	*	50.000	0.000	100.0#	0	-5.90#
24	t	Mirex	*	50.000	0.000	100.0#	0	-6.03#
25	t	Endosulfan Sulfate		0.948	0.000	100.0#	0#	-5.65#
26	t	Endrin Ketone		1.033	0.000	100.0#	0#	-6.07#
27	s	Decachlorobiphenyl	*	50.000	0.000	100.0#	0	-6.94#
28	i	1-br-2-nb_Chlordane	^	1.000	1.000	0.0	0	-1.36#
29	l1	chlordane-1	*	1000.000	0.000	100.0#	0	-2.81#
30	l1	chlordane-3	*	1000.000	0.000	100.0#	0	-3.42#
31	l1	chlordane-4	*	1000.000	0.000	100.0#	0	-4.10#
32	l1	chlordane-5	*	1000.000	0.000	100.0#	0	-4.27#

* Evaluation of CC level amount vs concentration.
(#) = Out of Range SPCC's out = 0 CCC's out = 0
(^) = ISTD area calculated using ICAL average

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest10\2024\240626B\
Data File : 10240626b-05.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 26 Jun 2024 17:36
Operator : PEST10:peg
Sample : wg1939871-3,42,,tox11615 (Sig #1); tox11615 (Sig #2)
Misc : wg1939871,,ical21109
ALS Vial : 5 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 27 06:53:43 2024
Quant Method : I:\PEST\Pest10\2024\240626B\pest10_2024_05_02_ugL_ical21109.m
Quant Title : pest
QLast Update : Thu Jun 27 06:53:34 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	0.000	0.000	0	0	N.D. d	N.D. d
28) i	1-br-2-nb_Ch	0.000	0.000	0	0	N.D. d	N.D. d
33) i	1-br-2-nb_To	1.248	1.363	608.1E6	154.8E6	25.000M4	25.000M4
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount 50.000	Range 30 - 150		Recovery =		0.00%#	0.00%#
27) s	Decachlorobi	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount 50.000	Range 30 - 150		Recovery =		0.00%#	0.00%#
	Target Compounds						
3) t	Hexachlorobe	0.000	0.000	0	0	N.D. d	N.D. d
4) t	alpha-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5) t	gamma-BHC (l	0.000	0.000	0	0	N.D. d	N.D. d
6) t	beta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7) t	delta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
8) t	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
9) t	Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
10) t	Alachlor	0.000	0.000	0	0	N.D. d	N.D. d
11) t	Chlorpyrifos	0.000	0.000	0	0	N.D. d	N.D. d
12) t	Heptachlor E	0.000	0.000	0	0	N.D. d	N.D. d
13) t	gamma-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
14) t	alpha-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
15) t	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
16) t	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
17) t	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
18) t	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
19) t	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
20) t	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
21) t	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
22) t	Endrin Aldeh	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\PEST\Pest10\2024\240626B\
Data File : 10240626b-05.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 26 Jun 2024 17:36
Operator : PEST10:peg
Sample : wg1939871-3,42,,tox11615 (Sig #1); tox11615 (Sig #2)
Misc : wg1939871,,ical21109
ALS Vial : 5 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 27 06:53:43 2024
Quant Method : I:\PEST\Pest10\2024\240626B\pest10_2024_05_02_ugL_ical21109.m
Quant Title : pest
QLast Update : Thu Jun 27 06:53:34 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
23) t	Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d
24) t	Mirex	0.000	0.000	0	0	N.D. d	N.D. d
25) t	Endosulfan S	0.000	0.000	0	0	N.D. d	N.D. d
26) t	Endrin Keton	0.000	0.000	0	0	N.D. d	N.D. d
29) l1	chlordane-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l1	chlordane-3	0.000	0.000	0	0	N.D. d	N.D. d
31) l1	chlordane-4	0.000	0.000	0	0	N.D. d	N.D. d
32) l1	chlordane-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	chlordane-1			0	0	N.D.	N.D.
Average	chlordane-1					0.000	0.000
34) l2	toxaphene-1	4.326	5.085	2319.8E6	261.3E6	2429.680	2088.571
35) l2	toxaphene-2	4.454	5.114	2145.5E6	393.1E6	2382.288	2100.590
36) l2	toxaphene-4	4.882	5.433	2028.8E6	413.6E6	2594.675	1844.121
37) l2	toxaphene-5	5.072	5.843	2221.3E6	368.9E6	2426.970	1796.167
Sum	toxaphene-1			8715.3E6	1436.9E6	9833.612	7829.449
Average	toxaphene-1					2458.403	1957.362

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	toxaphene-1			8715.3E6	1436.9E6	9833.612	7829.449
Average	toxaphene-1					2458.403	1957.362

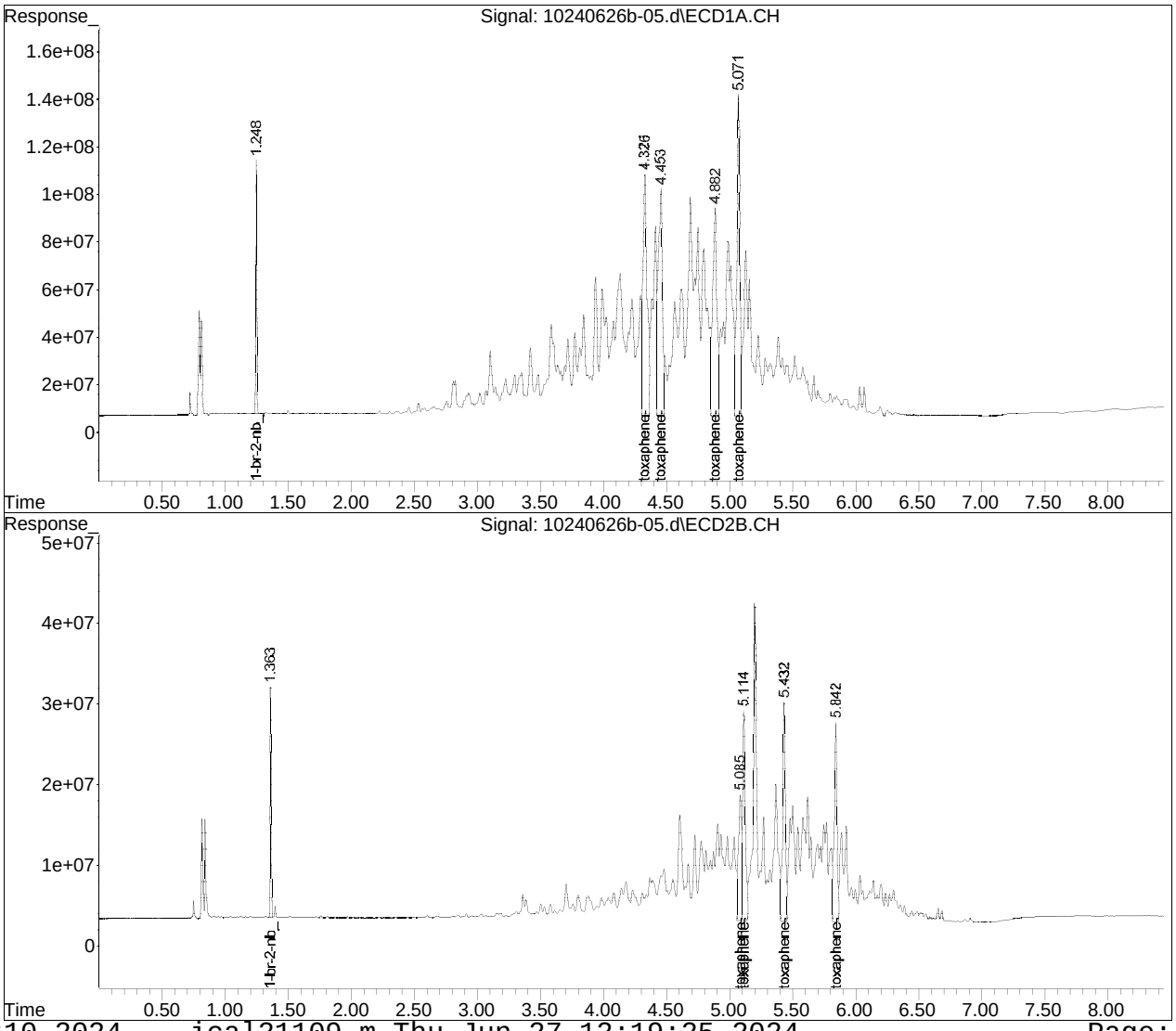
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest10\2024\240626B\
Data File : 10240626b-05.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 26 Jun 2024 17:36
Operator : PEST10:peg
Sample : wg1939871-3,42,,tox11615 (Sig #1); tox11615 (Sig #2)
Misc : wg1939871,,ical21109
ALS Vial : 5 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 27 06:53:43 2024
Quant Method : I:\PEST\Pest10\2024\240626B\pest10_2024_05_02_ugL_ical21109.m
Quant Title : pest
QLast Update : Thu Jun 27 06:53:34 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

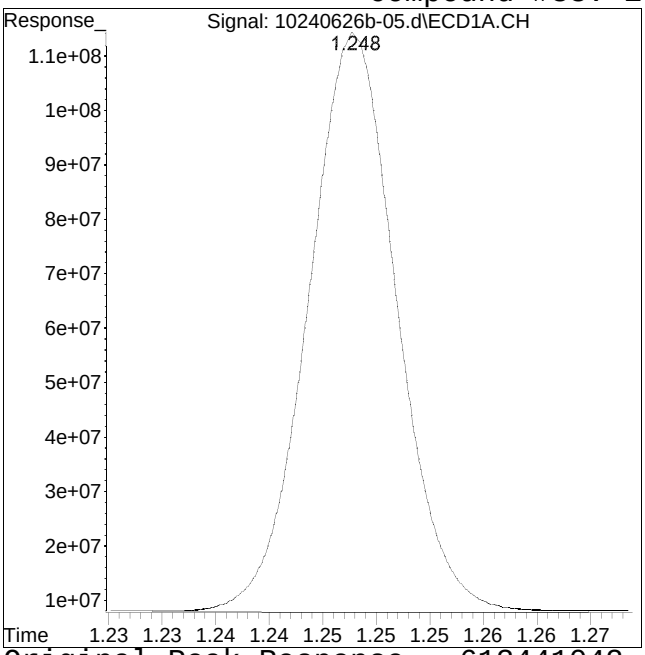
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

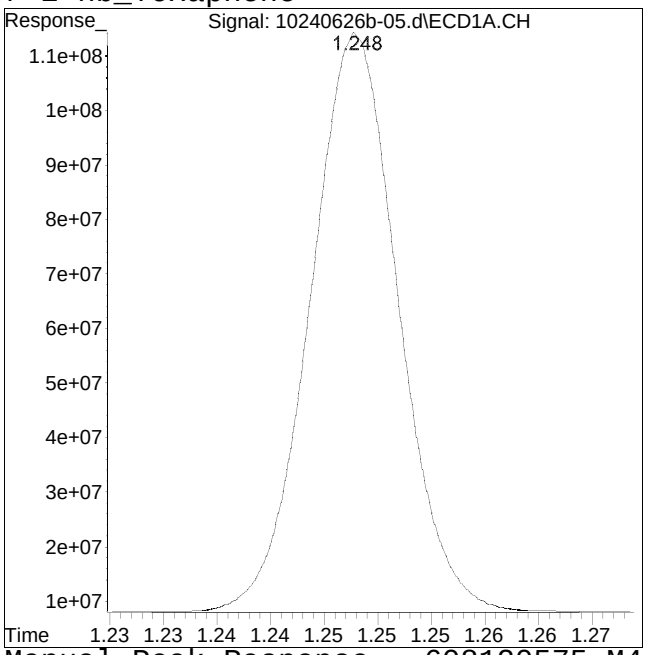


Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240626QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240626b-05.d Operator : PEST10:peg
Date Inj'd : 6/26/2024 17:36 Instrument : Pest 10
Sample : wg1939871-3,42,,tox11615 Quant Date : 6/27/2024 6:53 am

Compound #33: 1-br-2-nb_Toxaphene



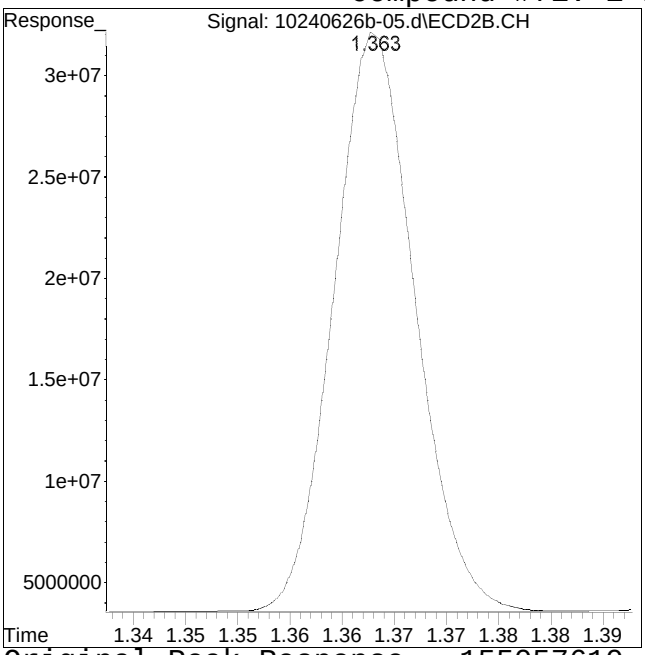


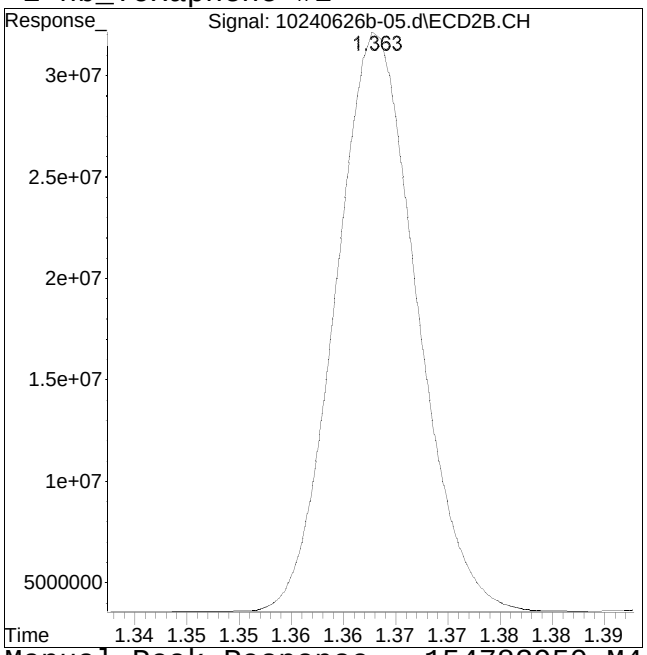
Original Peak Response = 613441042 Manual Peak Response = 608120575 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240626QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240626b-05.d Operator : PEST10:peg
Date Inj'd : 6/26/2024 17:36 Instrument : Pest 10
Sample : wg1939871-3,42,,tox11615 Quant Date : 6/27/2024 6:53 am

Compound #71: 1-br-2-nb_Toxaphene #2





Original Peak Response = 155057610 Manual Peak Response = 154783950 M4
M4 = Poor automated baseline construction.

Degradation Check Standard

Performance Evaluation Mixture Summary
Form 15
Pesticides

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Instrument ID	: PEST10	**Analysis Date**	: 06/24/24 15:46
PEM Standard	: R1845102-1		
Column 1	: RTX-5	**Column 2**	: RTX-CLPPesticides2

Parameter	Signal 1	Signal 2
4,4'-DDE	729073.57106	529771.26132
Endrin	1668555244.2107	400079866.2468
4,4'-DDD	2419588.5112	967286.94835
4,4'-DDT	2859681723.7285	774518011.7056
Endrin Aldehyde	0	0
Endrin Ketone	0	1319772.79889

Parameter	%Breakdown 1	%Breakdown 2
Endrin	0.00	0.329
DDT	0.110	0.193

Performance Evaluation Mixture Summary
Form 15
Pesticides

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Instrument ID	: PEST10	**Analysis Date**	: 06/26/24 17:03
PEM Standard	: R1846414-1		
Column 1	: RTX-5	**Column 2**	: RTX-CLPPesticides2

Parameter	Signal 1	Signal 2
4,4'-DDE	2192352.62823	0
Endrin	2011869581.2948	387533360.08719
4,4'-DDD	4825736.73301	1103617.18588
4,4'-DDT	3184224554.4265	722137728.95463
Endrin Aldehyde	0	0
Endrin Ketone	3702080.80487	837418.01978

Parameter	%Breakdown 1	%Breakdown 2
Endrin	0.184	0.216
DDT	0.220	0.152

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest10\2024\240624B\
Data File : 10240624b-02.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 24 Jun 2024 3:46 pm
Operator : PEST10:mmg
Sample : pem10240624b-01,42,,deg11573 (Sig #1); deg11573 (Sig #2)
Misc : wg1938709,,ical21109
ALS Vial : 2 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 24 18:13:12 2024
Quant Method : I:\PEST\Pest10\2024\240624B\pest10_2024_05_02_ugL_ical21109.m
Quant Title : pest
QLast Update : Mon Jun 24 16:28:25 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : DEG - DDT/Endrin degradation check

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	1.251	1.365	501.5E6	155.3E6	25.000M4	25.000M4
	System Monitoring Compounds						
	Target Compounds						
15) t D	4,4'-DDE	3.550	4.475	729074	529771	0.030M3	0.081M4
18) t	Endrin	4.094	4.931	1668.6E6	400.1E6	67.474M4	59.291M4
19) t	4,4'-DDD	4.213	5.054	2419589	967287	0.123M3	0.184M4
21) t	4,4'-DDT	4.514	5.332	2859.7E6	774.5E6	131.834M4	129.925M4
22) t	Endrin Aldeh	0.000	0.000	0	0	N.D. d	N.D. d
26) t	Endrin Keton	0.000	6.069	0	1319773	N.D. d	0.206M4
	Sum chlordane-1			0	0	N.D.	N.D.
	Average chlordane-1					0.000	0.000
	Sum toxaphene-1			0	0	N.D.	N.D.
	Average toxaphene-1					0.000	0.000
	SemiQuant Compounds - Not Calibrated on this Instrument						
	Sum toxaphene-1			0	0	N.D.	N.D.
	Average toxaphene-1					0.000	0.000

(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest10\2024\240624B\
Data File : 10240624b-02.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 24 Jun 2024 3:46 pm
Operator : PEST10:mmg
Sample : pem10240624b-01,42,,deg11573 (Sig #1); deg11573 (Sig #2)
Misc : wg1938709,,ical21109
ALS Vial : 2 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 24 18:13:12 2024
Quant Method : I:\PEST\Pest10\2024\240624B\pest10_2024_05_02_ugL_ical21109.m
Quant Title : pest
QLast Update : Mon Jun 24 16:28:25 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : DEG - DDT/Endrin degradation check

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l

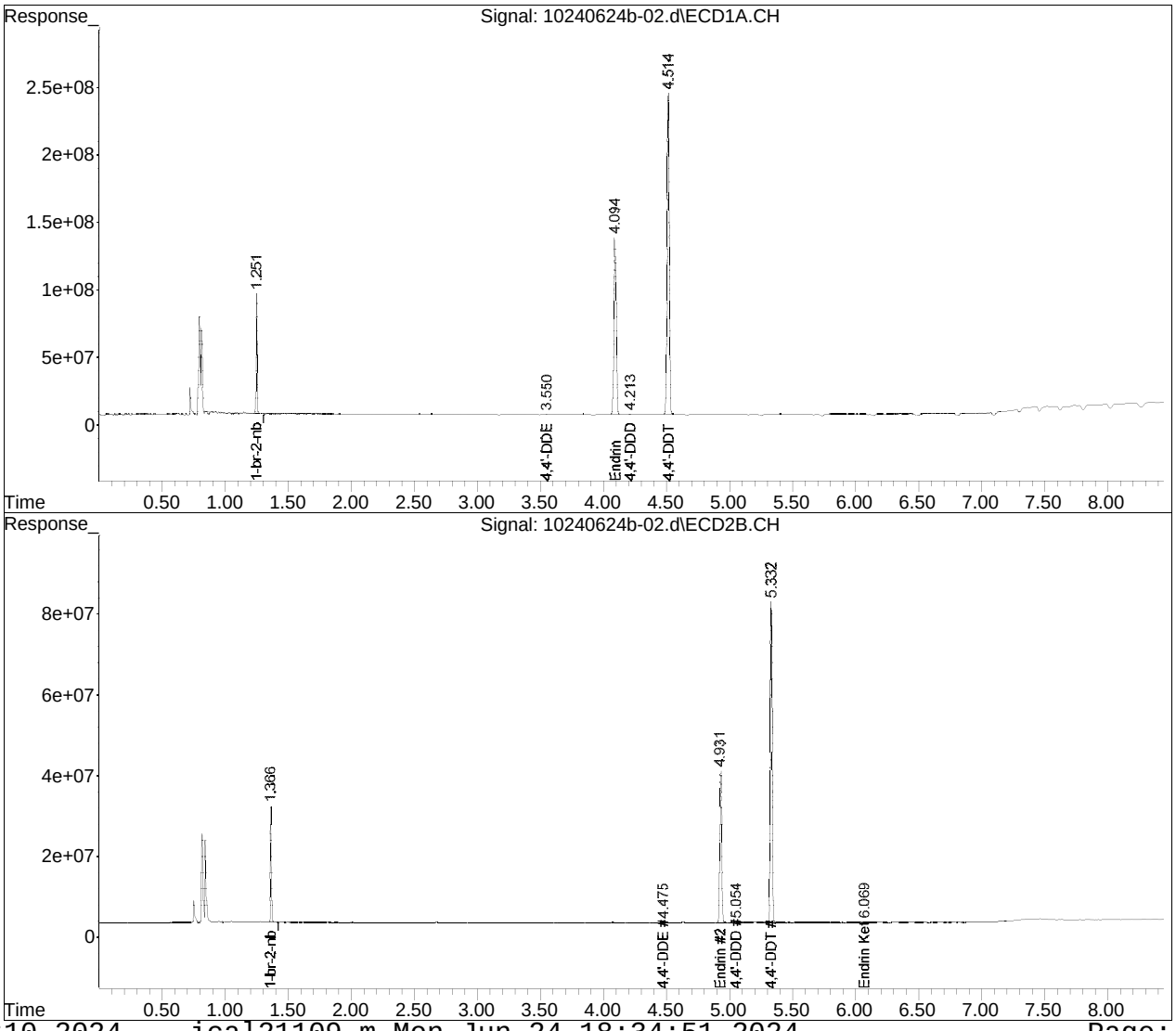
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : DEG - DDT/Endrin degradation checkiewed)

Data Path : I:\PEST\Pest10\2024\240624B\
Data File : 10240624b-02.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 24 Jun 2024 3:46 pm
Operator : PEST10:mmg
Sample : pem10240624b-01,42,,deg11573 (Sig #1); deg11573 (Sig #2)
Misc : wg1938709,,ical21109
ALS Vial : 2 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 24 18:13:12 2024
Quant Method : I:\PEST\Pest10\2024\240624B\pest10_2024_05_02_ugL_ical21109.m
Quant Title : pest
QLast Update : Mon Jun 24 16:28:25 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

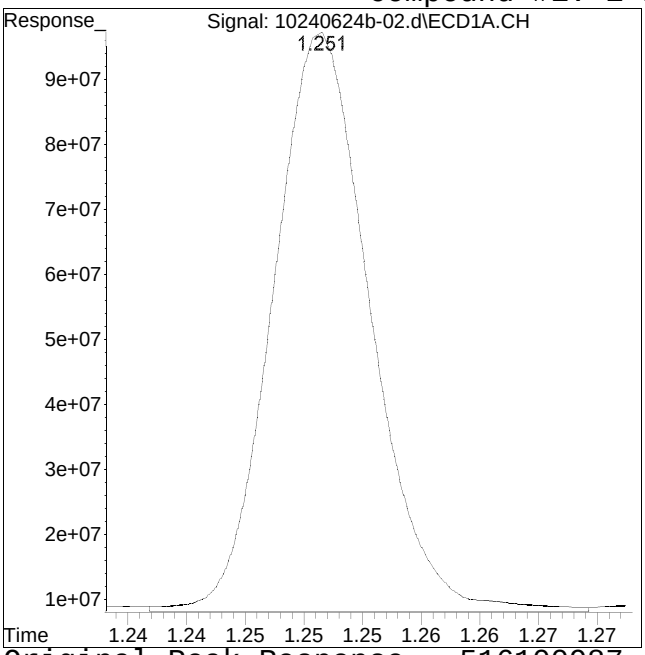
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

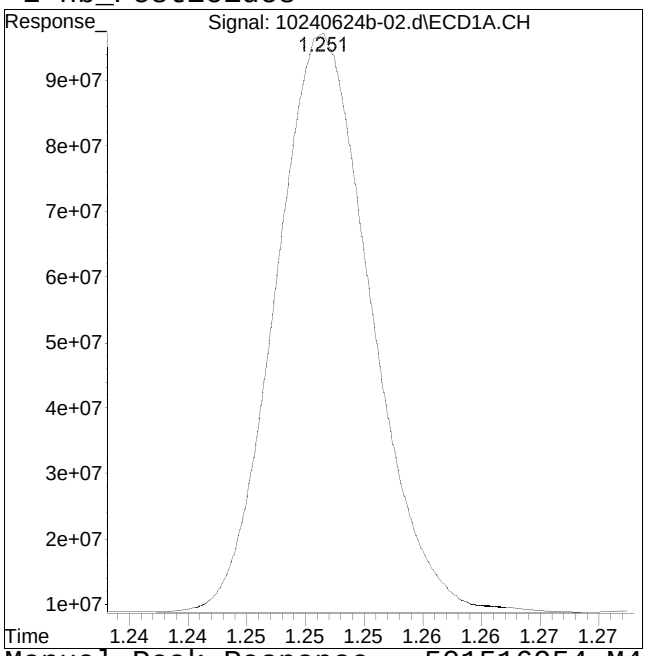


Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240624QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240624b-02.d Operator : PEST10:mmg
Date Inj'd : 6/24/2024 3:46 pm Instrument : Pest 10
Sample : pem10240624b-01,42,,deg115Quant Date : 6/24/2024 6:13 pm

Compound #1: 1-br-2-nb_Pesticides



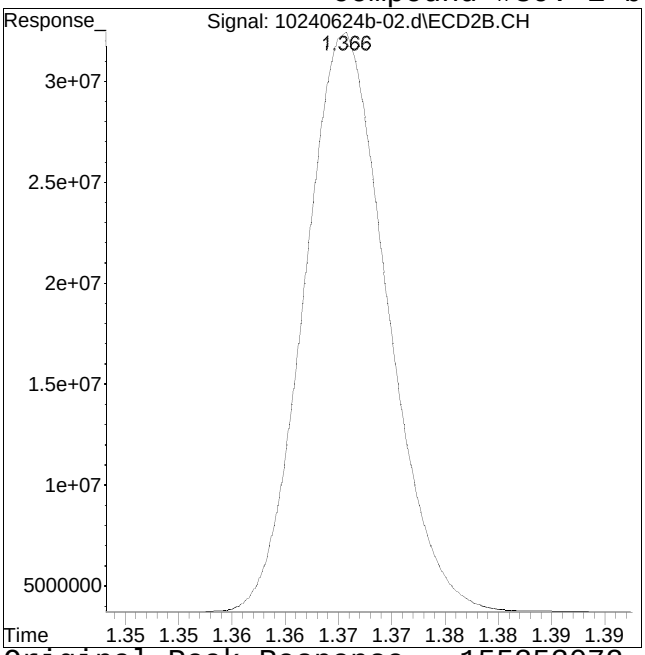


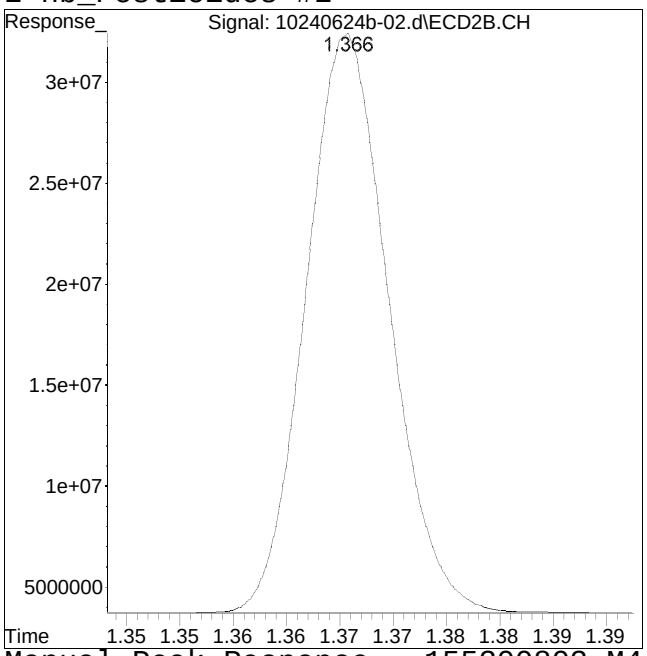
Original Peak Response = 516100987 Manual Peak Response = 501516954 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240624QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240624b-02.d Operator : PEST10:mmg
Date Inj'd : 6/24/2024 3:46 pm Instrument : Pest 10
Sample : pem10240624b-01,42,,deg115Quant Date : 6/24/2024 6:13 pm

Compound #39: 1-br-2-nb_Pesticides #2



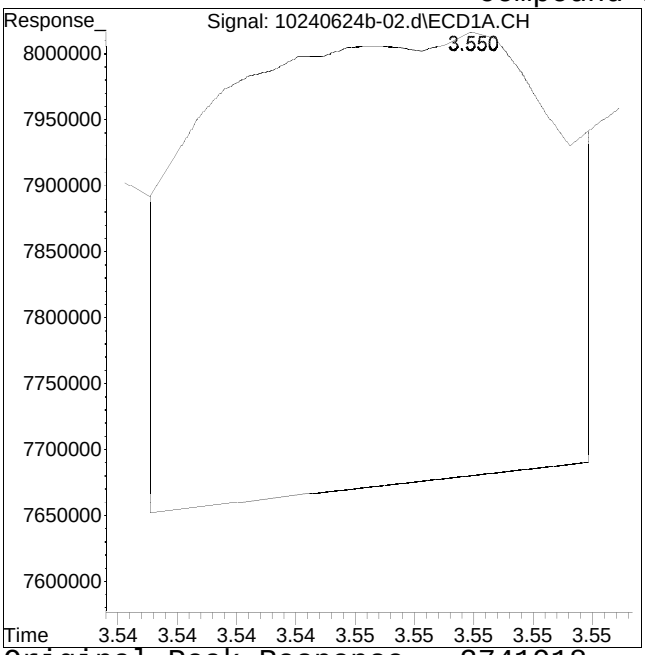


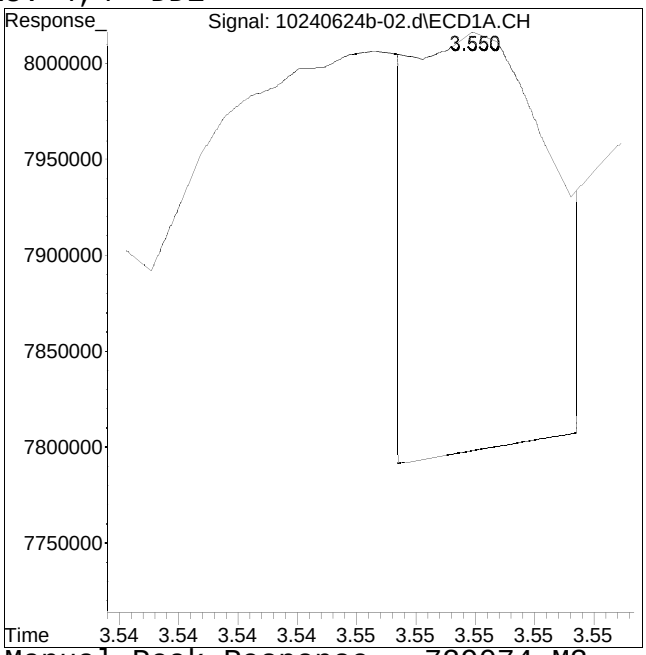
Original Peak Response = 155353072 Manual Peak Response = 155300803 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240624QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240624b-02.d Operator : PEST10:mmg
Date Inj'd : 6/24/2024 3:46 pm Instrument : Pest 10
Sample : pem10240624b-01,42,,deg115Quant Date : 6/24/2024 6:13 pm

Compound #15: 4,4'-DDE



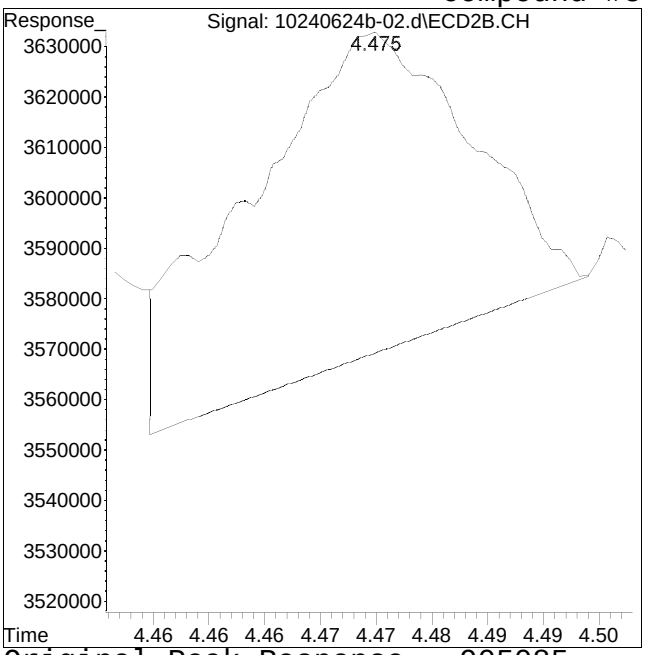


Original Peak Response = 2741918 Manual Peak Response = 729074 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

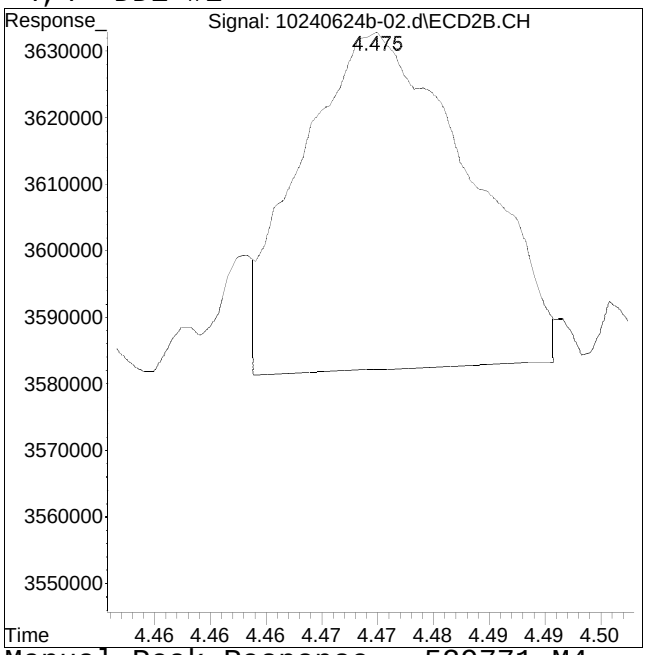
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240624QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240624b-02.d Operator : PEST10:mmg
Date Inj'd : 6/24/2024 3:46 pm Instrument : Pest 10
Sample : pem10240624b-01,42,,deg115Quant Date : 6/24/2024 6:13 pm

Compound #53: 4,4'-DDE #2



Original Peak Response = 905085



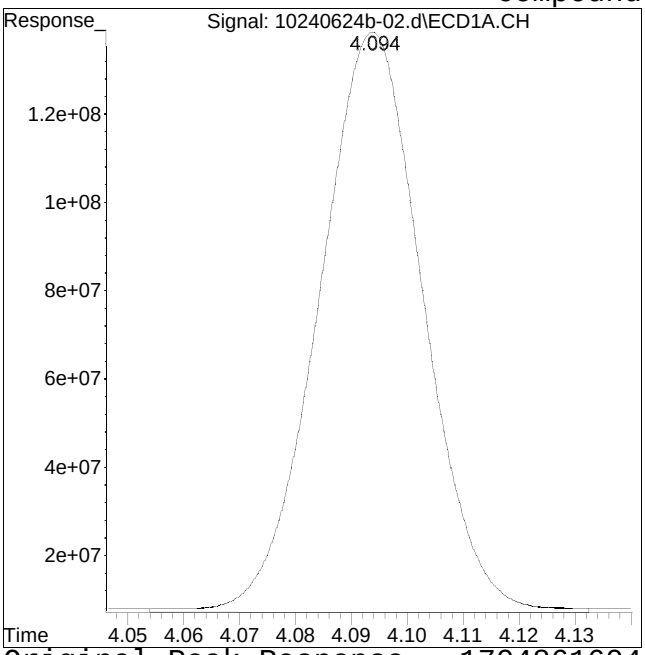
Manual Peak Response = 529771 M4

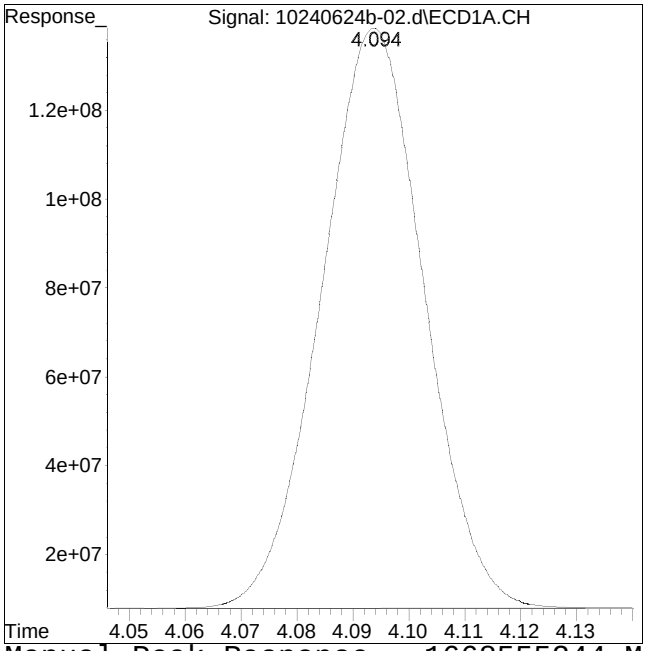
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240624QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240624b-02.d Operator : PEST10:mmg
Date Inj'd : 6/24/2024 3:46 pm Instrument : Pest 10
Sample : pem10240624b-01,42,,deg115Quant Date : 6/24/2024 6:13 pm

Compound #18: Endrin



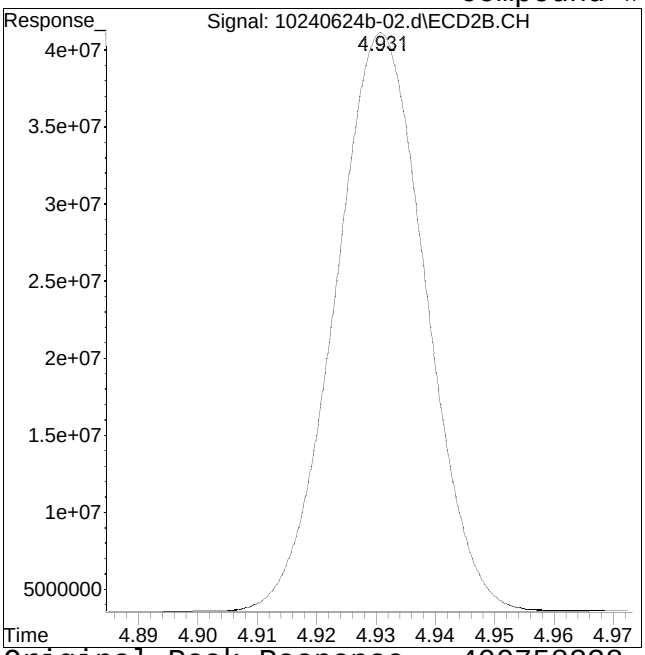


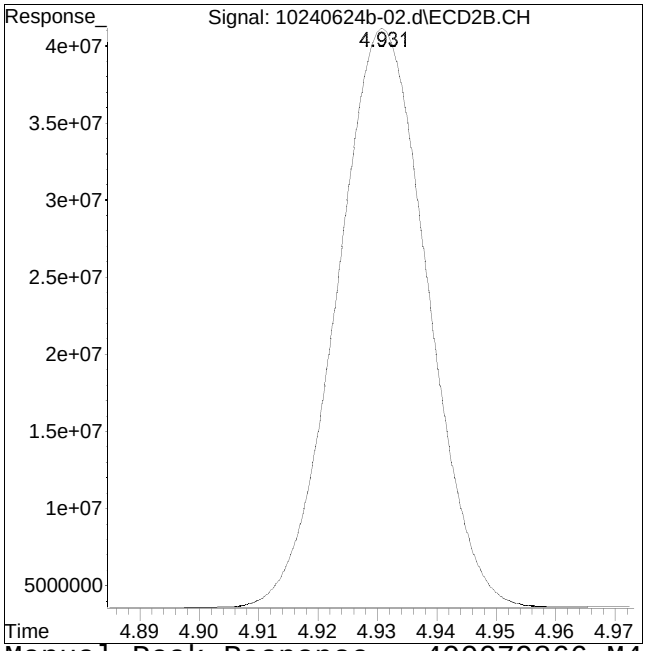
Original Peak Response = 1704861604 Manual Peak Response = 1668555244 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240624QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240624b-02.d Operator : PEST10:mmg
Date Inj'd : 6/24/2024 3:46 pm Instrument : Pest 10
Sample : pem10240624b-01,42,,deg115Quant Date : 6/24/2024 6:13 pm

Compound #56: Endrin #2



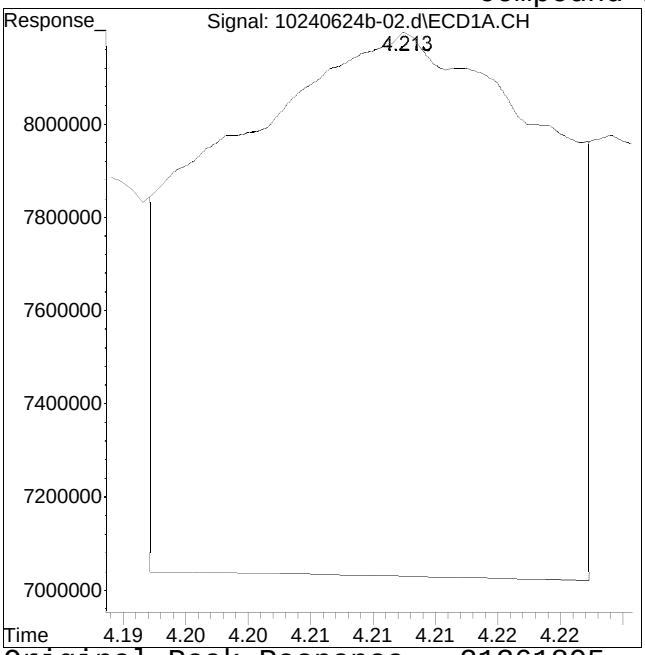


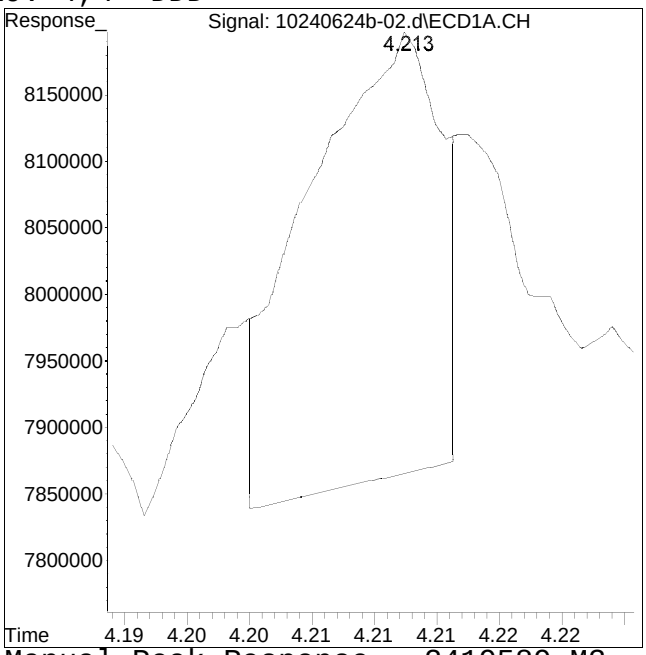
Original Peak Response = 400758338 Manual Peak Response = 400079866 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240624QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240624b-02.d Operator : PEST10:mmg
Date Inj'd : 6/24/2024 3:46 pm Instrument : Pest 10
Sample : pem10240624b-01,42,,deg115Quant Date : 6/24/2024 6:13 pm

Compound #19: 4,4'-DDD



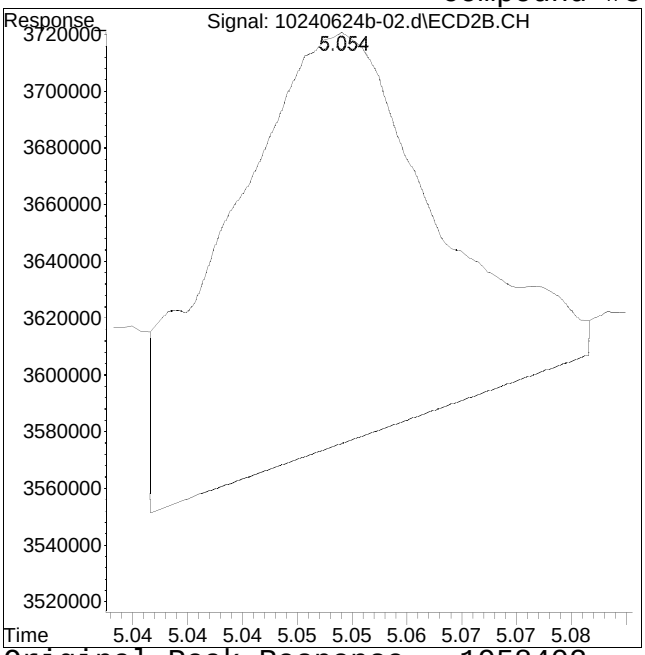


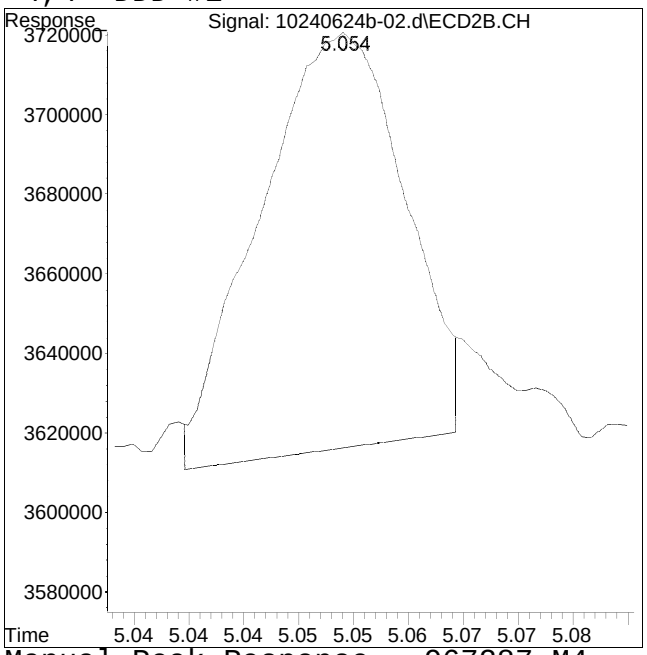
Original Peak Response = 21361895 Manual Peak Response = 2419589 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240624QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240624b-02.d Operator : PEST10:mmg
Date Inj'd : 6/24/2024 3:46 pm Instrument : Pest 10
Sample : pem10240624b-01,42,,deg115Quant Date : 6/24/2024 6:13 pm

Compound #57: 4,4'-DDD #2



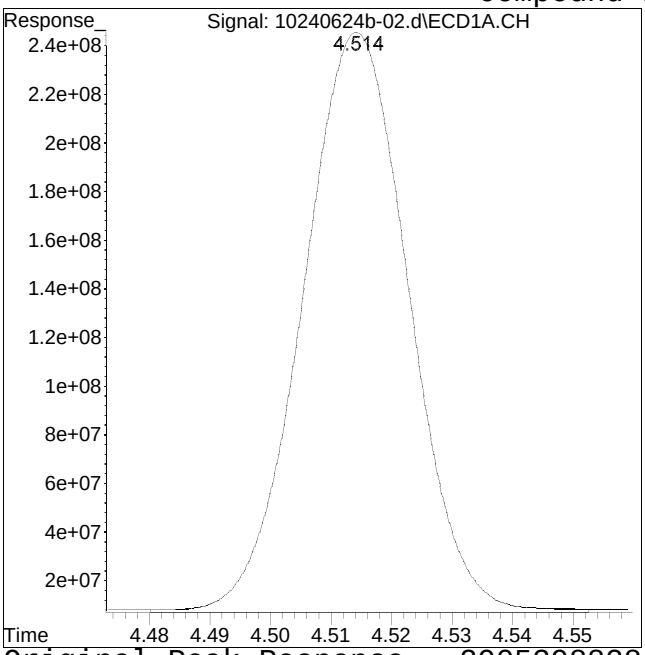


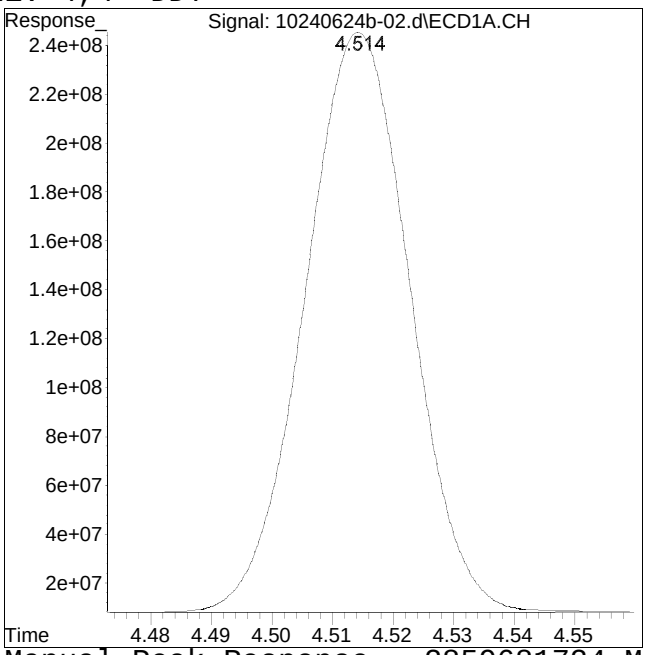
Original Peak Response = 1958402 Manual Peak Response = 967287 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240624QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240624b-02.d Operator : PEST10:mmg
Date Inj'd : 6/24/2024 3:46 pm Instrument : Pest 10
Sample : pem10240624b-01,42,,deg115Quant Date : 6/24/2024 6:13 pm

Compound #21: 4,4'-DDT



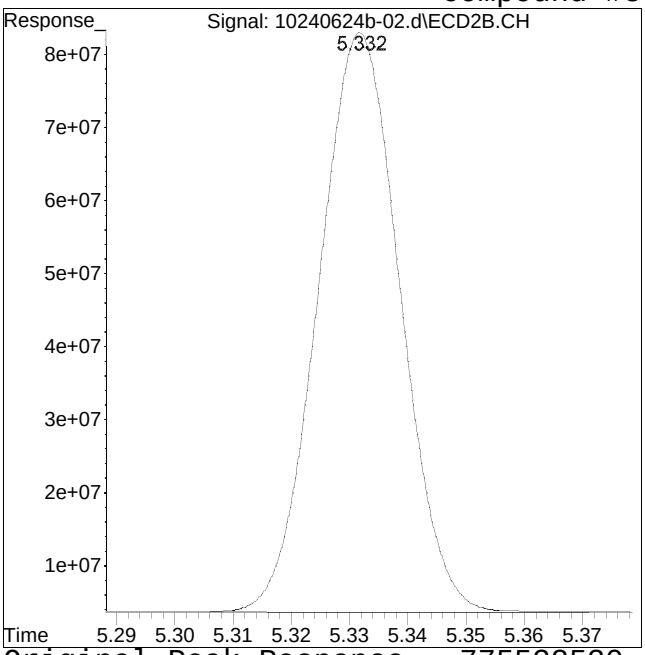


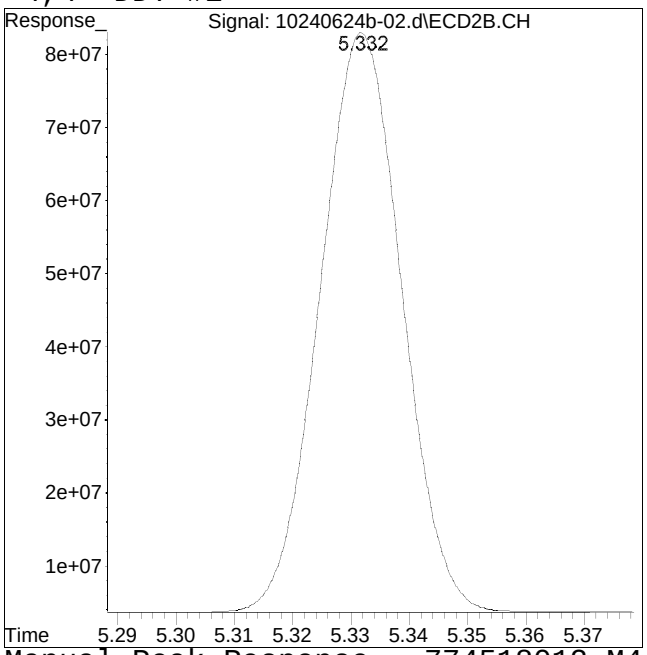
Original Peak Response = 2905398828 Manual Peak Response = 2859681724 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240624QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240624b-02.d Operator : PEST10:mmg
Date Inj'd : 6/24/2024 3:46 pm Instrument : Pest 10
Sample : pem10240624b-01,42,,deg115Quant Date : 6/24/2024 6:13 pm

Compound #59: 4,4'-DDT #2





Original Peak Response = 775532530 Manual Peak Response = 774518012 M4
M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest10\2024\240626B\
Data File : 10240626b-02.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 26 Jun 2024 17:03
Operator : PEST10:jag
Sample : pem10240626b-01,42,,deg11573 (Sig #1); deg11573 (Sig #2)
Misc : wg1939871,,ical21109
ALS Vial : 2 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 26 17:21:43 2024
Quant Method : I:\PEST\Pest10\2024\240626B\pest10_2024_05_02_ugL_ical21109.m
Quant Title : pest
QLast Update : Wed Jun 26 07:31:27 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : DEG - DDT/Endrin degradation check

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	1.248	1.363	530.6E6	154.5E6	25.000M4	25.000M4
	System Monitoring Compounds						
	Target Compounds						
15) t	4,4'-DDE	3.541	0.000	2192353	0	0.086M4	N.D.
D							
18) t	Endrin	4.085	4.927	2011.9E6	387.5E6	76.895M4	57.732
19) t	4,4'-DDD	4.202	5.051	4825737	1103617	0.233M4	0.211M4
21) t	4,4'-DDT	4.507	5.329	3184.2E6	722.1E6	138.744M4	121.772
22) t	Endrin Aldeh	0.000	0.000	0	0	N.D. d	N.D.
26) t	Endrin Keton	5.399	6.066	3702081	837418	0.151M4	0.131M4
	Sum chlordane-1			0	0	N.D.	N.D.
Average	chlordane-1					0.000	0.000
	Sum toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000
	SemiQuant Compounds - Not Calibrated on this Instrument						
	Sum toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest10\2024\240626B\
Data File : 10240626b-02.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 26 Jun 2024 17:03
Operator : PEST10:jag
Sample : pem10240626b-01,42,,deg11573 (Sig #1); deg11573 (Sig #2)
Misc : wg1939871,,ical21109
ALS Vial : 2 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 26 17:21:43 2024
Quant Method : I:\PEST\Pest10\2024\240626B\pest10_2024_05_02_ugL_ical21109.m
Quant Title : pest
QLast Update : Wed Jun 26 07:31:27 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : DEG - DDT/Endrin degradation check

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l

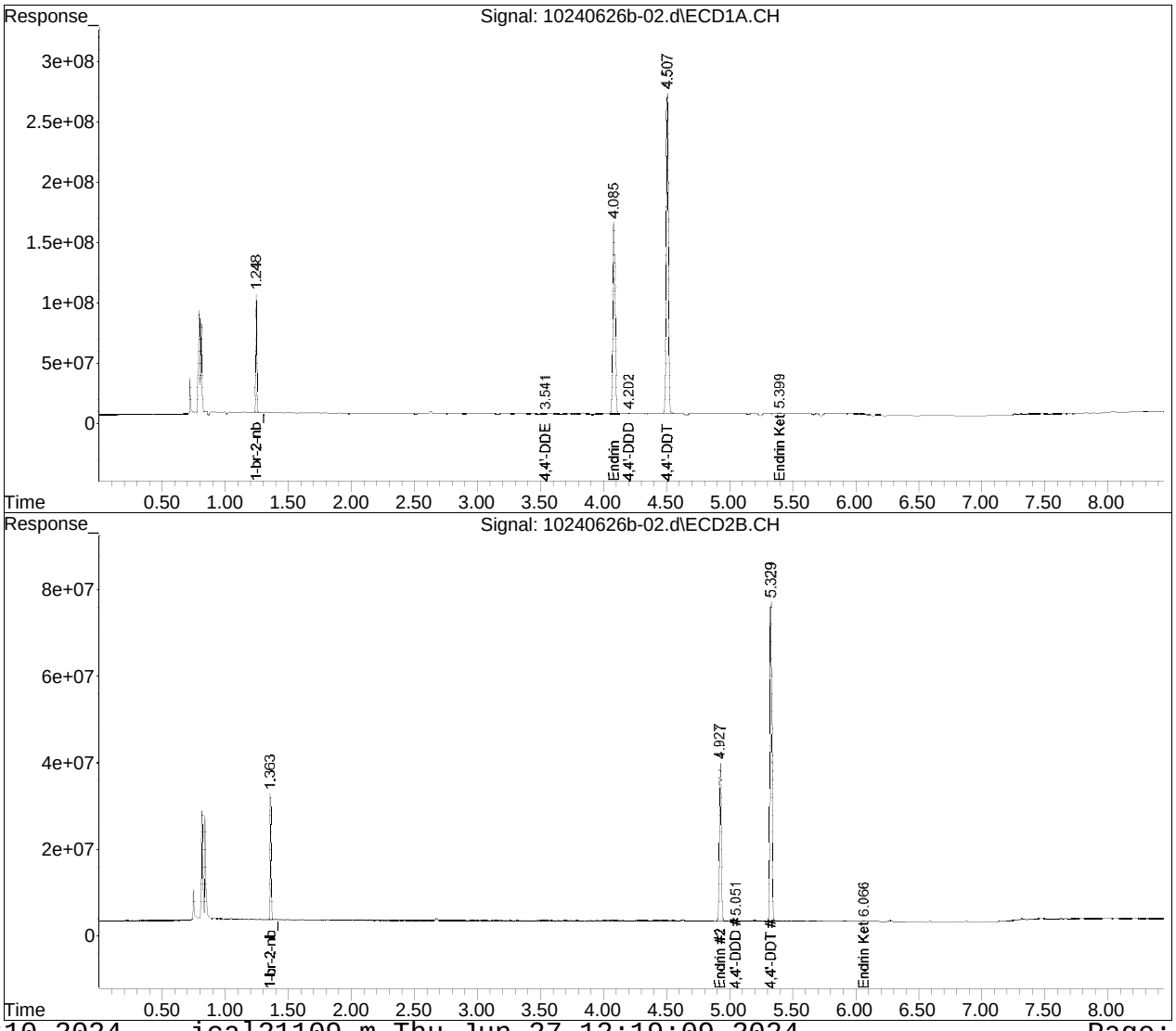
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : DEG - DDT/Endrin degradation checkiewed)

Data Path : I:\PEST\Pest10\2024\240626B\
Data File : 10240626b-02.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 26 Jun 2024 17:03
Operator : PEST10:jag
Sample : pem10240626b-01,42,,deg11573 (Sig #1); deg11573 (Sig #2)
Misc : wg1939871,,ical21109
ALS Vial : 2 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 26 17:21:43 2024
Quant Method : I:\PEST\Pest10\2024\240626B\pest10_2024_05_02_ugL_ical21109.m
Quant Title : pest
QLast Update : Wed Jun 26 07:31:27 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

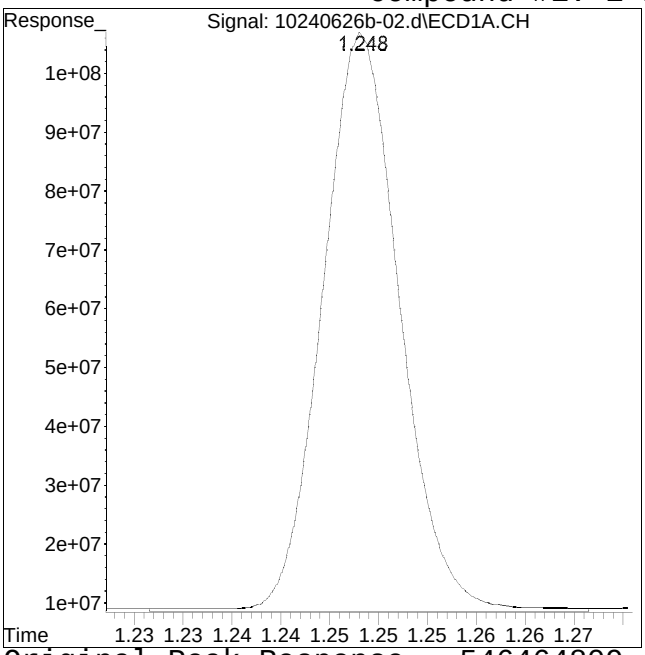
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

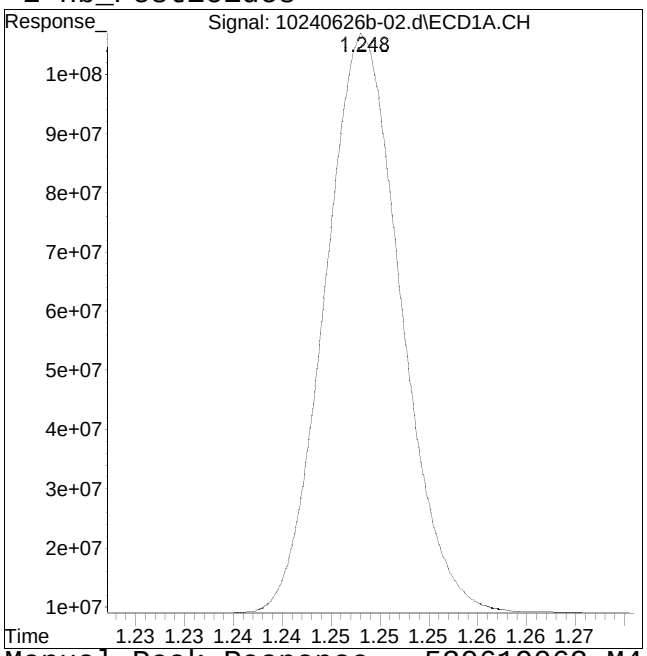


Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240626QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240626b-02.d Operator : PEST10:jag
Date Inj'd : 6/26/2024 17:03 Instrument : Pest 10
Sample : pem10240626b-01,42,,deg115Quant Date : 6/26/2024 5:21 pm

Compound #1: 1-br-2-nb_Pesticides



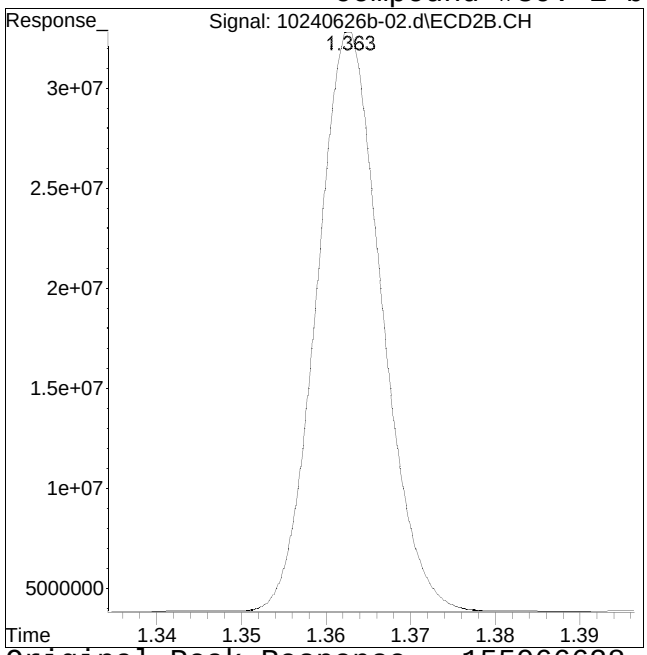


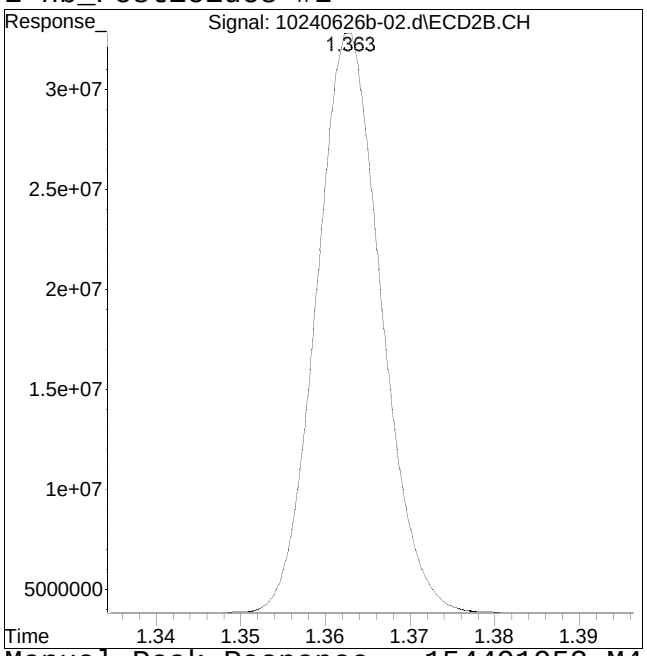
Original Peak Response = 546464809 Manual Peak Response = 530619062 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240626QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240626b-02.d Operator : PEST10:jag
Date Inj'd : 6/26/2024 17:03 Instrument : Pest 10
Sample : pem10240626b-01,42,,deg115Quant Date : 6/26/2024 5:21 pm

Compound #39: 1-br-2-nb_Pesticides #2





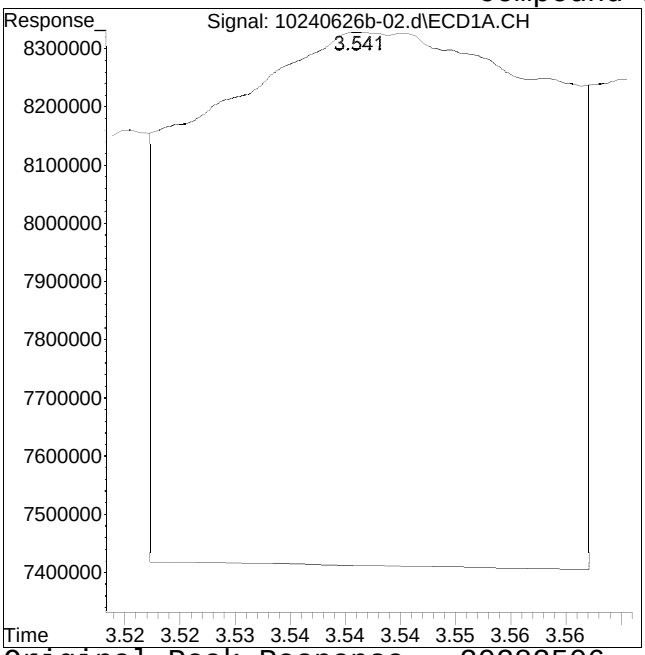
Original Peak Response = 155066628 Manual Peak Response = 154491952 M4
M4 = Poor automated baseline construction.

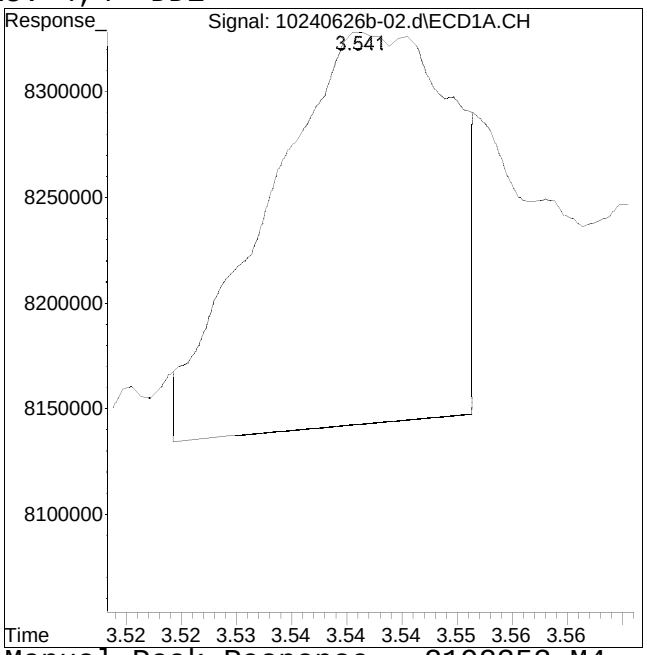
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240626Q
Data File : 10240626b-02.d
Date Inj'd : 6/26/2024 17:03
Sample : pem10240626b-01,42,,deg115

Method : pest10_2024_05_02_ugL_ic
Operator : PEST10:jag
Instrument : Pest 10
Quant Date : 6/26/2024 5:21 pm

Compound #15: 4,4'-DDE



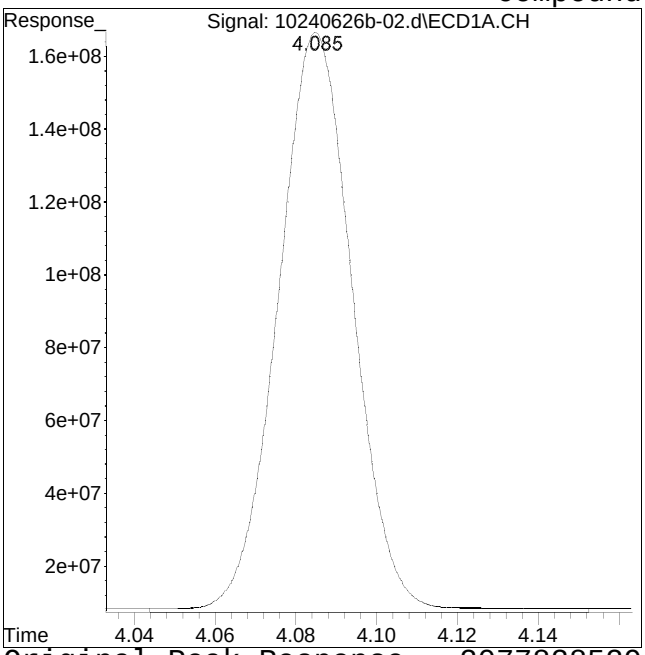


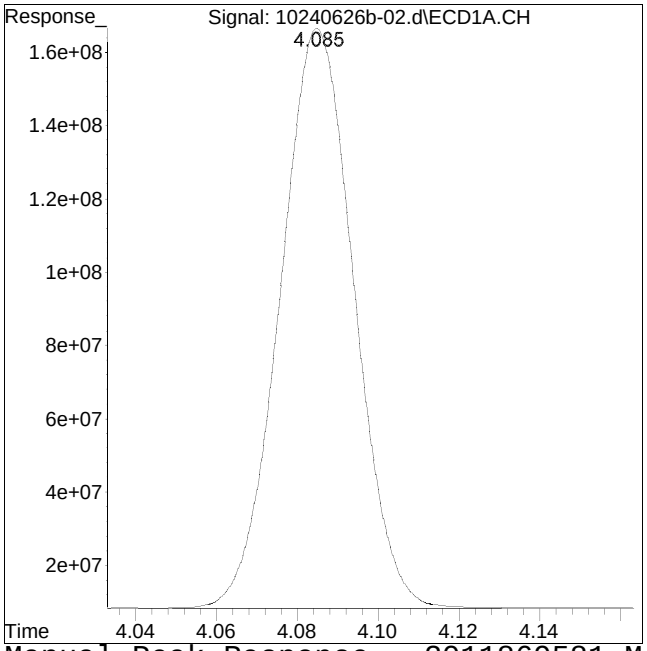
Original Peak Response = 20282506 Manual Peak Response = 2192353 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240626Q
Data File : 10240626b-02.d
Date Inj'd : 6/26/2024 17:03
Sample : pem10240626b-01,42,,deg115
Method : pest10_2024_05_02_ugL_ic
Operator : PEST10:jag
Instrument : Pest 10
Quant Date : 6/26/2024 5:21 pm

Compound #18: Endrin



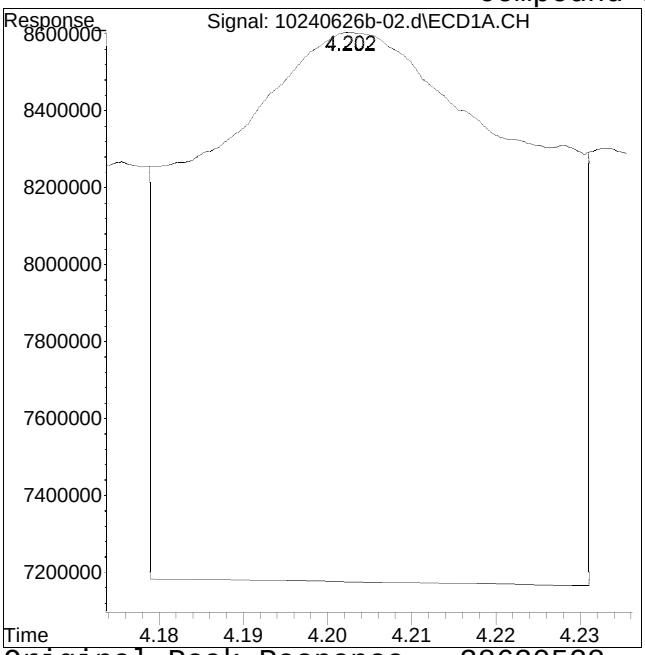


Original Peak Response = 2077828529 Manual Peak Response = 2011869581 M4
M4 = Poor automated baseline construction.

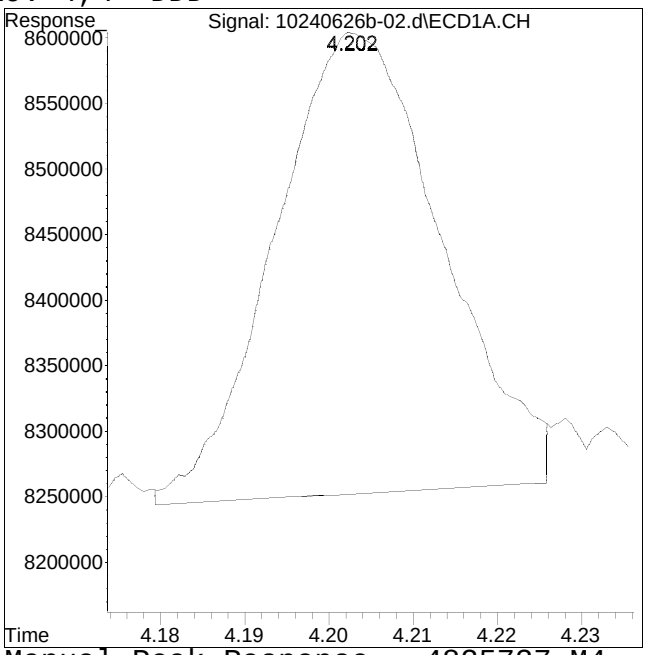
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240626QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240626b-02.d Operator : PEST10:jag
Date Inj'd : 6/26/2024 17:03 Instrument : Pest 10
Sample : pem10240626b-01,42,,deg115Quant Date : 6/26/2024 5:21 pm

Compound #19: 4,4'-DDD



Original Peak Response = 38630528



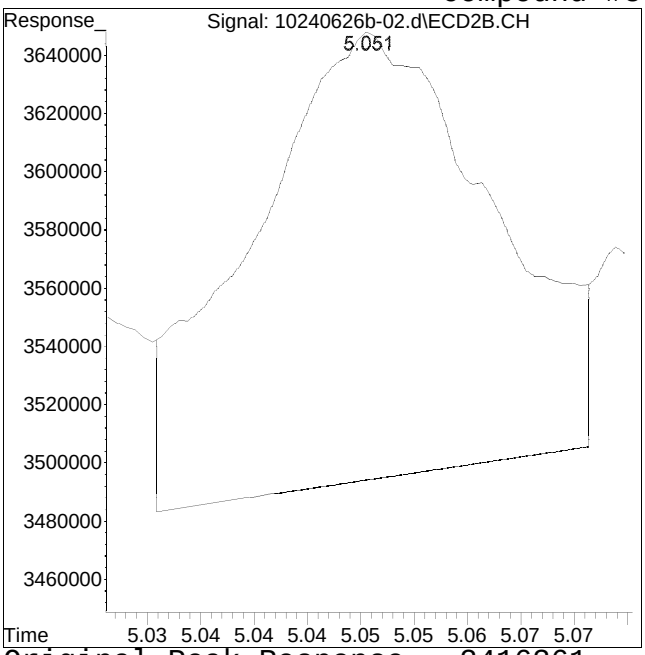
Manual Peak Response = 4825737 M4

M4 = Poor automated baseline construction.

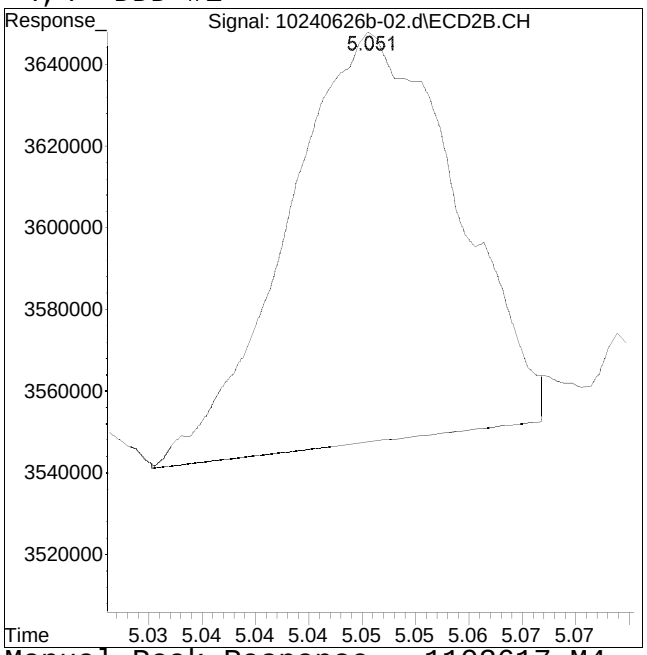
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240626QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240626b-02.d Operator : PEST10:jag
Date Inj'd : 6/26/2024 17:03 Instrument : Pest 10
Sample : pem10240626b-01,42,,deg115Quant Date : 6/26/2024 5:21 pm

Compound #57: 4,4'-DDD #2



Original Peak Response = 2416361



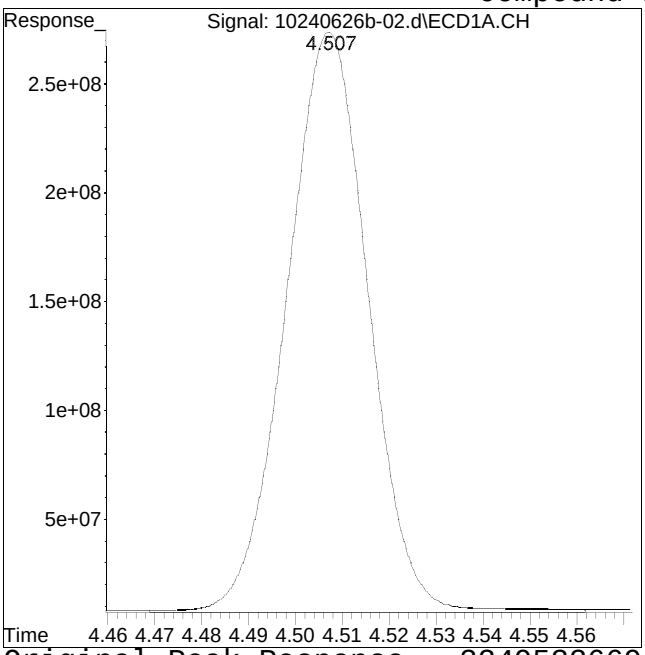
Manual Peak Response = 1103617 M4

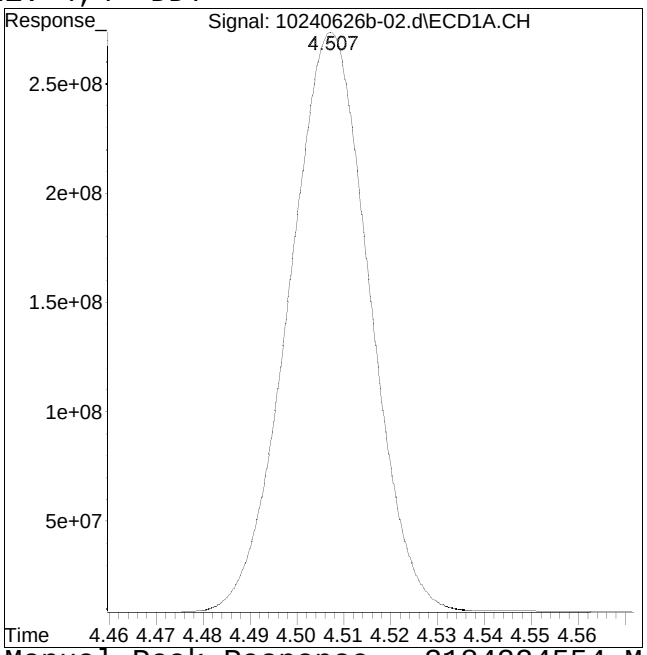
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240626QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240626b-02.d Operator : PEST10:jag
Date Inj'd : 6/26/2024 17:03 Instrument : Pest 10
Sample : pem10240626b-01,42,,deg115Quant Date : 6/26/2024 5:21 pm

Compound #21: 4,4'-DDT





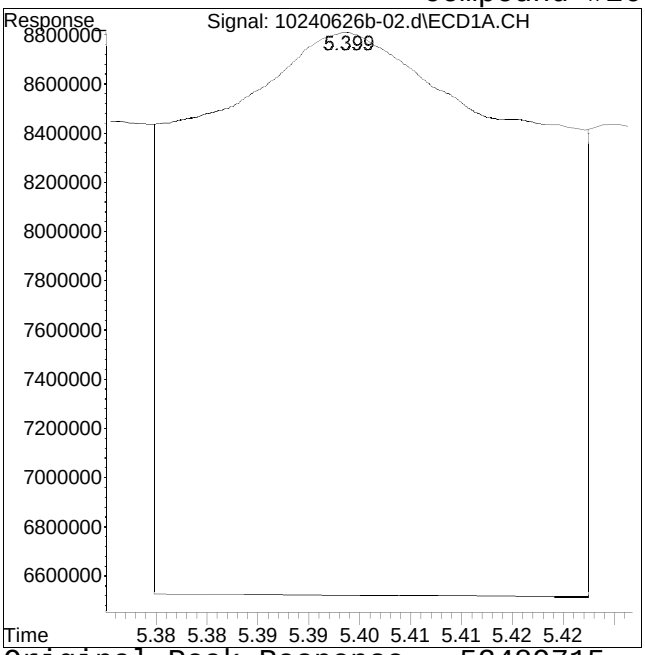
Original Peak Response = 3249533669 Manual Peak Response = 3184224554 M4
M4 = Poor automated baseline construction.

Manual Integration Report

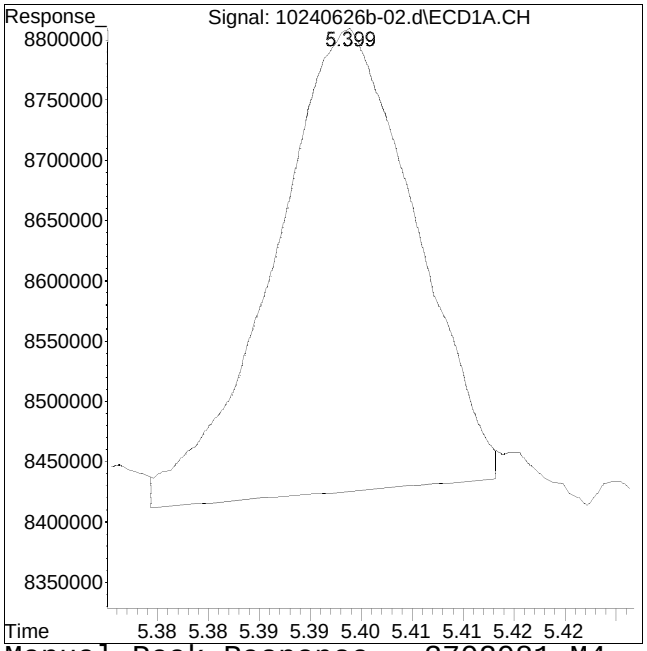
Data Path : I:\PEST\Pest10\2024\240626Q
Data File : 10240626b-02.d
Date Inj'd : 6/26/2024 17:03
Sample : pem10240626b-01,42,,deg115

Method : pest10_2024_05_02_ugL_ic
Operator : PEST10:jag
Instrument : Pest 10
Quant Date : 6/26/2024 5:21 pm

Compound #26: Endrin Ketone



Original Peak Response = 52489715



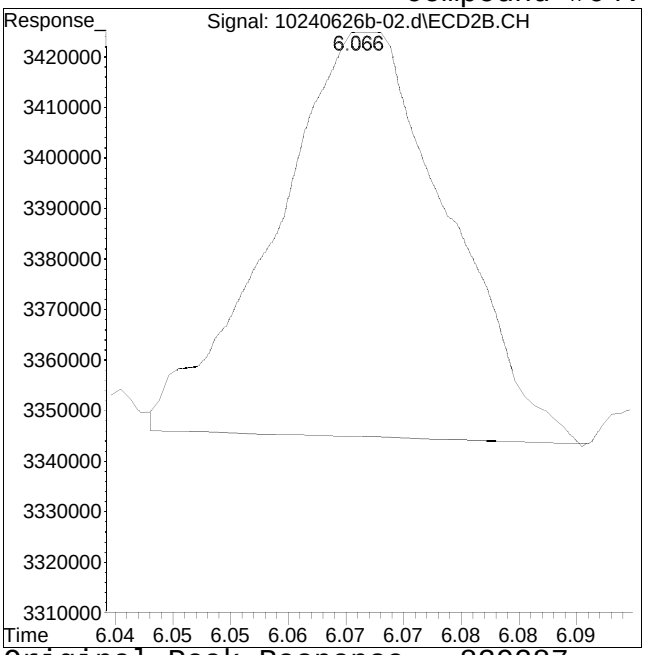
Manual Peak Response = 3702081 M4

M4 = Poor automated baseline construction.

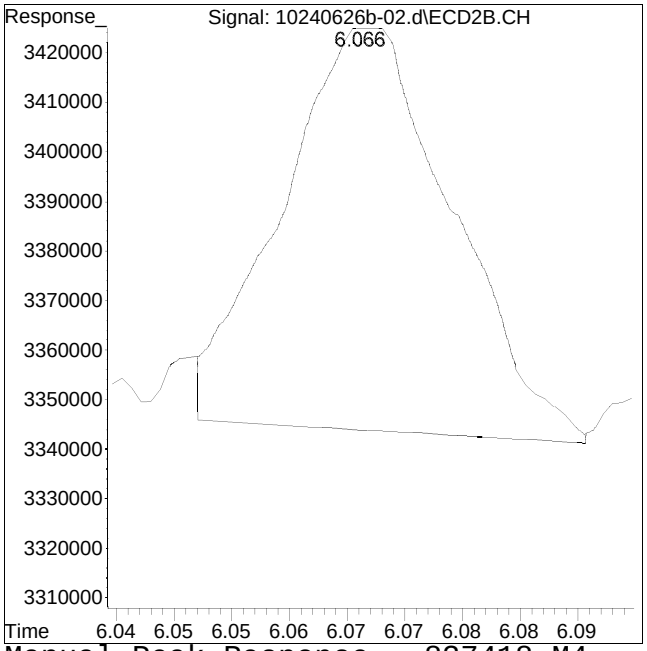
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240626QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240626b-02.d Operator : PEST10:jag
Date Inj'd : 6/26/2024 17:03 Instrument : Pest 10
Sample : pem10240626b-01,42,,deg115Quant Date : 6/26/2024 5:21 pm

Compound #64: Endrin Ketone #2



Original Peak Response = 839287



Manual Peak Response = 837418 M4

M4 = Poor automated baseline construction.

RT Shift Summary

Identification Summary
Form 10
Pesticides

Client	**: Alpha Geoscience**	**Lab Number**	**: L2434679**
Project Name	**: RANCO MINE**	**Project Number**	**: 12123**

No Detections Found

Pesticides Raw QC Data

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest10\2024\240624B\
Data File : 10240624b-13.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 24 Jun 2024 18:08
Operator : PEST10:emr
Sample : WG1938134-1,42,,
Misc : wg1938709,WG1938134,ical21109
ALS Vial : 13 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 25 08:56:58 2024
Quant Method : I:\PEST\Pest10\2024\240624B\pest10_2024_05_02_ugL_ical21109.m
Quant Title : pest
QLast Update : Mon Jun 24 18:30:48 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PEST\Pest10\2024\240624B\10240624b-03.d
Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Internal Standards							
1) i	1-br-2-nb_Pe	1.252	1.367	520.1E6	150.4E6	25.000	25.000
	Standard Area 1 : #1 = 521435419				Recovery =	99.74%	
	Standard Area 1 : #2 = 149552544				Recovery =	100.55%	
28) i	1-br-2-nb_Ch	1.252	1.367	520.1E6	150.4E6	25.000	25.000
33) i	1-br-2-nb_To	1.252	1.367	520.1E6	150.4E6	25.000	25.000
System Monitoring Compounds							
2) s	2,4,5,6-Tetr	1.588	1.847	640.3E6	176.9E6	28.360M4	31.292
	Spiked Amount	50.000	Range 30 - 150		Recovery =	56.72%	62.58%
27) s	Decachlorobi	6.220	6.932	710.4E6	164.4E6	42.116	37.597
	Spiked Amount	50.000	Range 30 - 150		Recovery =	84.23%	75.19%
Target Compounds							
4) t	alpha-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5) t	gamma-BHC (l	0.000	0.000	0	0	N.D. d	N.D. d
6) t	beta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7) t	delta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
8) t	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
9) t	Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
12) t	Heptachlor E	0.000	0.000	0	0	N.D. d	N.D. d
13) t	gamma-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
14) t	alpha-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
15) t	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
16) t	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
17) t	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
18) t	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
19) t	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
20) t	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
21) t	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\PEST\Pest10\2024\240624B\
Data File : 10240624b-13.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 24 Jun 2024 18:08
Operator : PEST10:emr
Sample : WG1938134-1,42,,
Misc : wg1938709,WG1938134,ical21109
ALS Vial : 13 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 25 08:56:58 2024
Quant Method : I:\PEST\Pest10\2024\240624B\pest10_2024_05_02_ugL_ical21109.m
Quant Title : pest
QLast Update : Mon Jun 24 18:30:48 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PEST\Pest10\2024\240624B\10240624b-03.d
Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
22) t	Endrin Aldeh	0.000	0.000	0	0	N.D. d	N.D. d
23) t	Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d
25) t	Endosulfan S	0.000	0.000	0	0	N.D. d	N.D. d
26) t	Endrin Keton	0.000	0.000	0	0	N.D. d	N.D. d
29) l1	chlordane-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l1	chlordane-3	0.000	0.000	0	0	N.D. d	N.D. d
31) l1	chlordane-4	0.000	0.000	0	0	N.D. d	N.D. d
32) l1	chlordane-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	chlordane-1			0	0	N.D.	N.D.
Average	chlordane-1					0.000	0.000
34) l2	toxaphene-1	0.000	0.000	0	0	N.D. d	N.D. d
35) l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
36) l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
37) l2	toxaphene-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000
SemiQuant Compounds - Not Calibrated on this Instrument							
Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

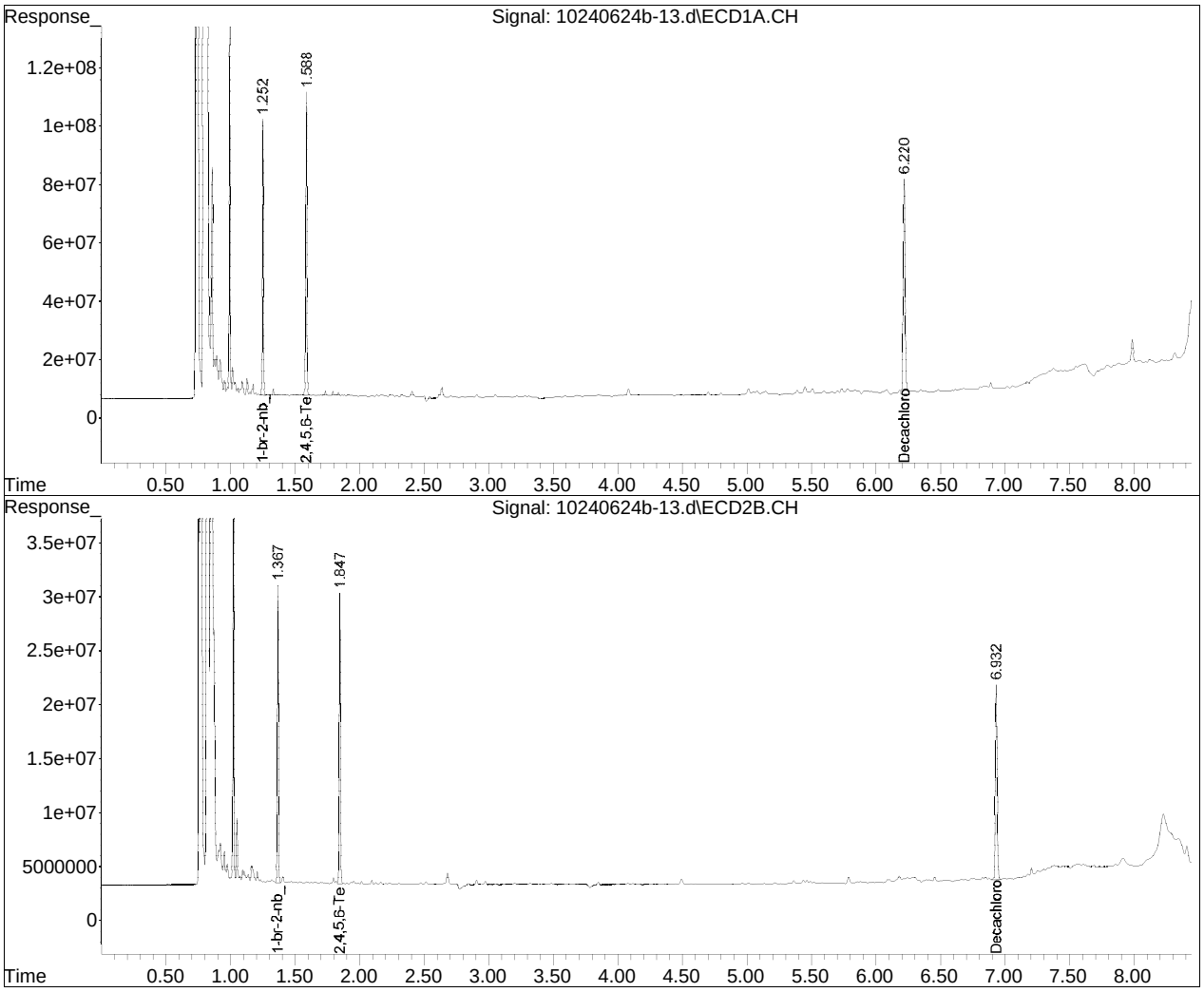
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listedB\10240624b-03.d•

Data Path : I:\PEST\Pest10\2024\240624B\
Data File : 10240624b-13.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 24 Jun 2024 18:08
Operator : PEST10:emr
Sample : WG1938134-1,42,,
Misc : wg1938709,WG1938134,ical21109
ALS Vial : 13 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 25 08:56:58 2024
Quant Method : I:\PEST\Pest10\2024\240624B\pest10_2024_05_02_ugL_ical21109.m
Quant Title : pest
QLast Update : Mon Jun 24 18:30:48 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

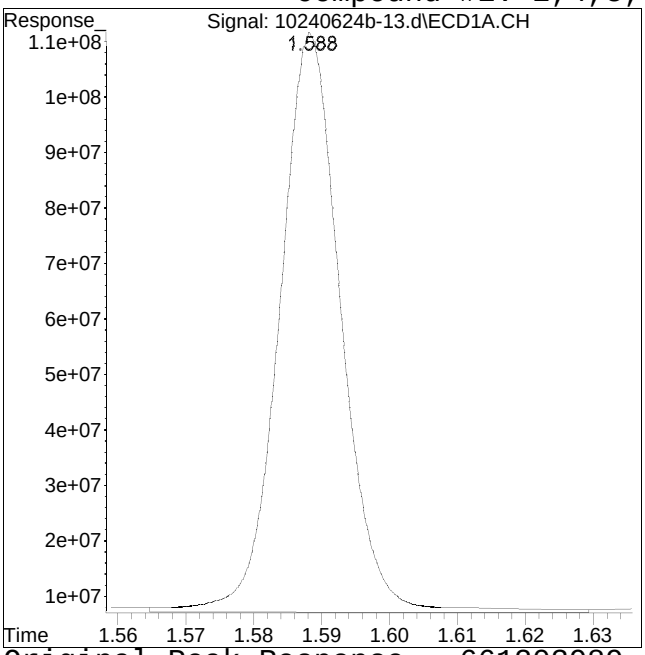
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

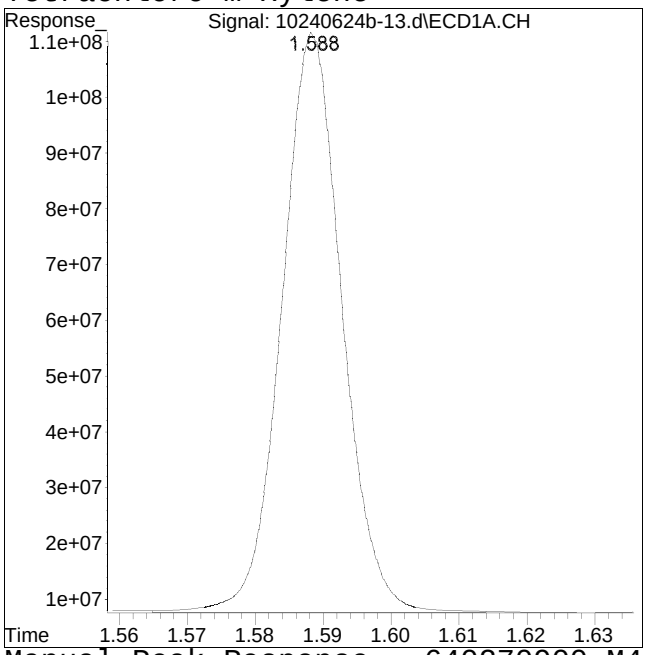


Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240624QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240624b-13.d Operator : PEST10:emr
Date Inj'd : 6/24/2024 18:08 Instrument : Pest 10
Sample : WG1938134-1,42,, Quant Date : 6/25/2024 8:56 am

Compound #2: 2,4,5,6-Tetrachloro-m-xylene





Original Peak Response = 661203989 Manual Peak Response = 640270900 M4
M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest10\2024\240626B\
Data File : 10240626b-18.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 26 Jun 2024 20:18
Operator : PEST10:peg
Sample : WG1939408-1,42,,
Misc : wg1939871,WG1939408,ical21109
ALS Vial : 18 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 27 06:55:36 2024
Quant Method : I:\PEST\Pest10\2024\240626B\pest10_2024_05_02_ugL_ical21109.m
Quant Title : pest
QLast Update : Thu Jun 27 06:53:33 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PEST\Pest10\2024\240626B\10240626b-03.d
Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Internal Standards							
1) i	1-br-2-nb_Pe	1.250	1.364	600.7E6	170.4E6	25.000M4	25.000M3
	Standard Area 1 : #1 = 558962350				Recovery = 107.46%		
	Standard Area 1 : #2 = 147960276				Recovery = 115.20%		
28) i	1-br-2-nb_Ch	1.250	1.364	600.7E6	170.4E6	25.000M4	25.000M3
33) i	1-br-2-nb_To	1.250	1.364	600.7E6	170.4E6	25.000M4	25.000M3
System Monitoring Compounds							
2) s	2,4,5,6-Tetr	1.586	1.843	905.5E6	244.2E6	34.725M4	38.101M4
	Spiked Amount 50.000	Range 30 - 150			Recovery = 69.45%		76.20%
27) s	Decachlorobi	6.214	6.932	822.2E6	150.7E6	42.207M4	30.228M4
	Spiked Amount 50.000	Range 30 - 150			Recovery = 84.41%		60.46%
Target Compounds							
4) t	alpha-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5) t	gamma-BHC (l	0.000	0.000	0	0	N.D. d	N.D. d
6) t	beta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7) t	delta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
8) t	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
9) t	Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
12) t	Heptachlor E	0.000	0.000	0	0	N.D. d	N.D. d
13) t	gamma-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
14) t	alpha-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
15) t	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
16) t	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
17) t	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\PEST\Pest10\2024\240626B\
Data File : 10240626b-18.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 26 Jun 2024 20:18
Operator : PEST10:peg
Sample : WG1939408-1,42,,
Misc : wg1939871,WG1939408,ical21109
ALS Vial : 18 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 27 06:55:36 2024
Quant Method : I:\PEST\Pest10\2024\240626B\pest10_2024_05_02_ugL_ical21109.m
Quant Title : pest
QLast Update : Thu Jun 27 06:53:33 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PEST\Pest10\2024\240626B\10240626b-03.d
Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
18) t	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
19) t	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
20) t	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
21) t	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
22) t	Endrin Aldeh	0.000	0.000	0	0	N.D. d	N.D. d
23) t	Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d
25) t	Endosulfan S	0.000	0.000	0	0	N.D. d	N.D. d
26) t	Endrin Keton	0.000	0.000	0	0	N.D. d	N.D. d
29) l1	chlordane-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l1	chlordane-3	0.000	0.000	0	0	N.D. d	N.D. d
31) l1	chlordane-4	0.000	0.000	0	0	N.D. d	N.D. d
32) l1	chlordane-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	chlordane-1			0	0	N.D.	N.D.
Average	chlordane-1					0.000	0.000
34) l2	toxaphene-1	0.000	0.000	0	0	N.D. d	N.D. d
35) l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
36) l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
37) l2	toxaphene-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000
SemiQuant	Compounds - Not Calibrated on this Instrument						
Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

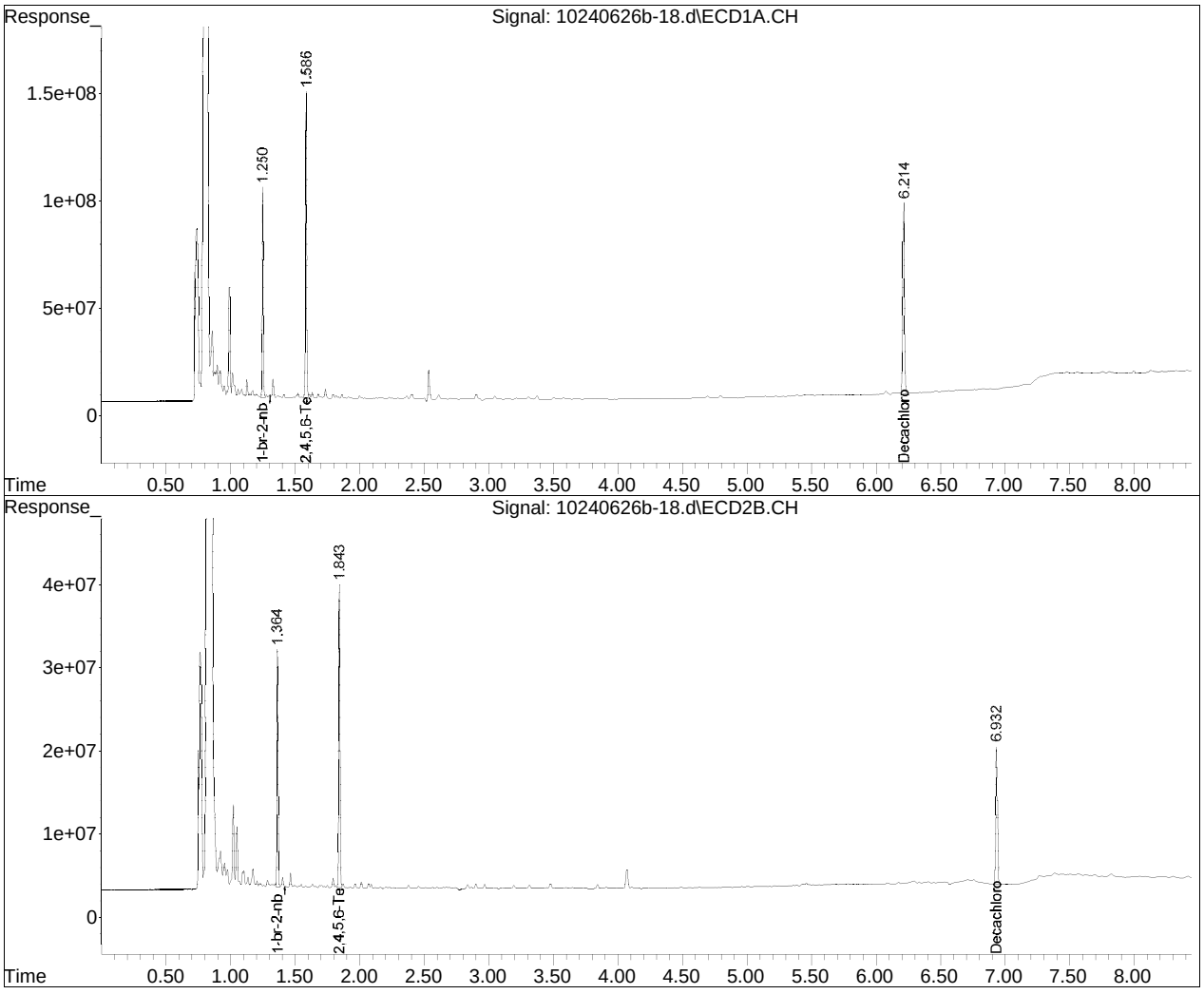
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listedB\10240626b-03.d•

Data Path : I:\PEST\Pest10\2024\240626B\
Data File : 10240626b-18.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 26 Jun 2024 20:18
Operator : PEST10:peg
Sample : WG1939408-1,42,,
Misc : wg1939871,WG1939408,ical21109
ALS Vial : 18 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 27 06:55:36 2024
Quant Method : I:\PEST\Pest10\2024\240626B\pest10_2024_05_02_ugL_ical21109.m
Quant Title : pest
QLast Update : Thu Jun 27 06:53:33 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

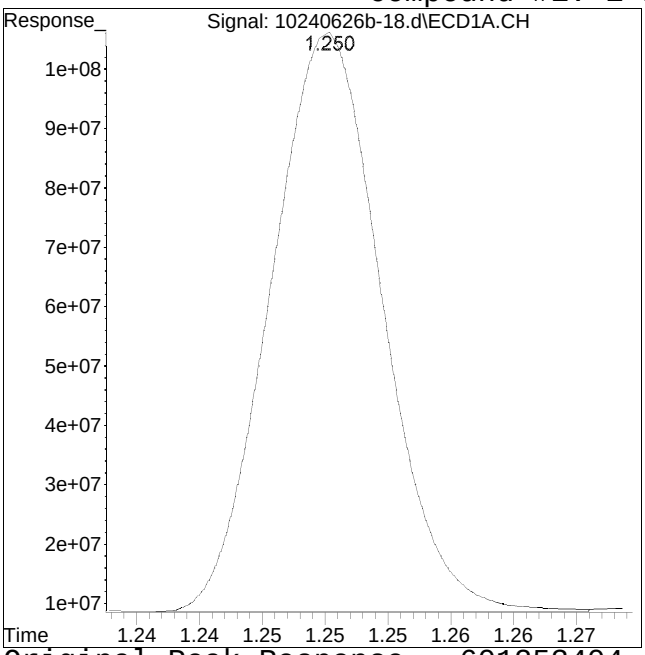
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



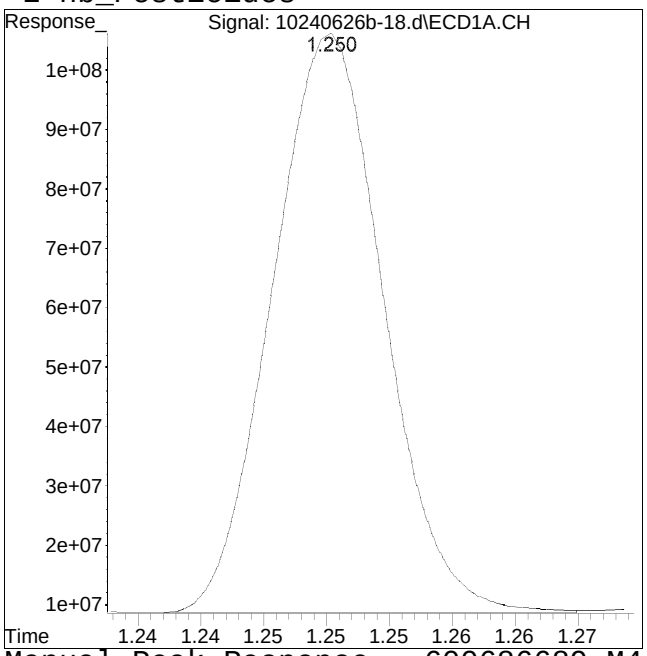
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240626QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240626b-18.d Operator : PEST10:peg
Date Inj'd : 6/26/2024 20:18 Instrument : Pest 10
Sample : WG1939408-1,42,, Quant Date : 6/27/2024 6:55 am

Compound #1: 1-br-2-nb_Pesticides



Original Peak Response = 601253404



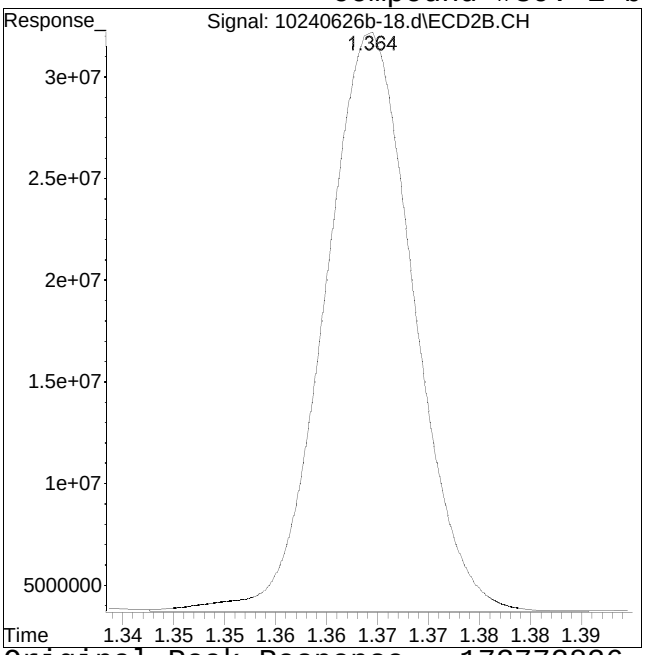
Manual Peak Response = 600686689 M4

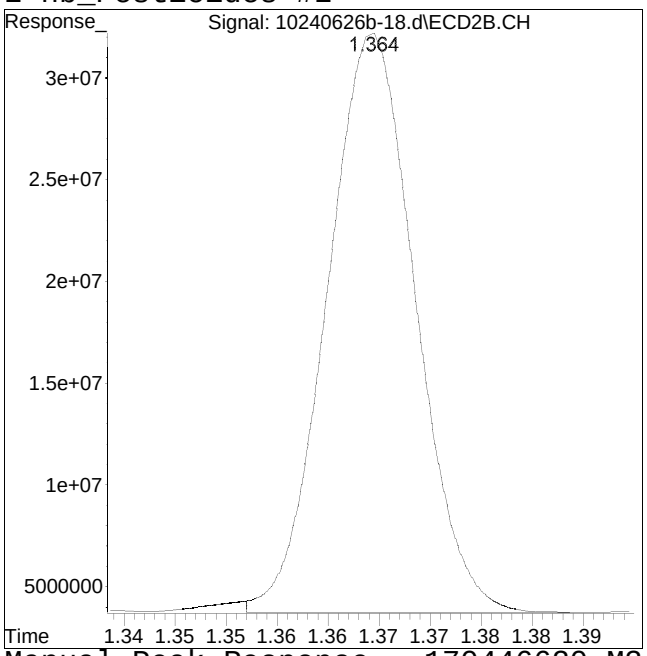
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240626QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240626b-18.d Operator : PEST10:peg
Date Inj'd : 6/26/2024 20:18 Instrument : Pest 10
Sample : WG1939408-1,42,, Quant Date : 6/27/2024 6:55 am

Compound #39: 1-br-2-nb_Pesticides #2



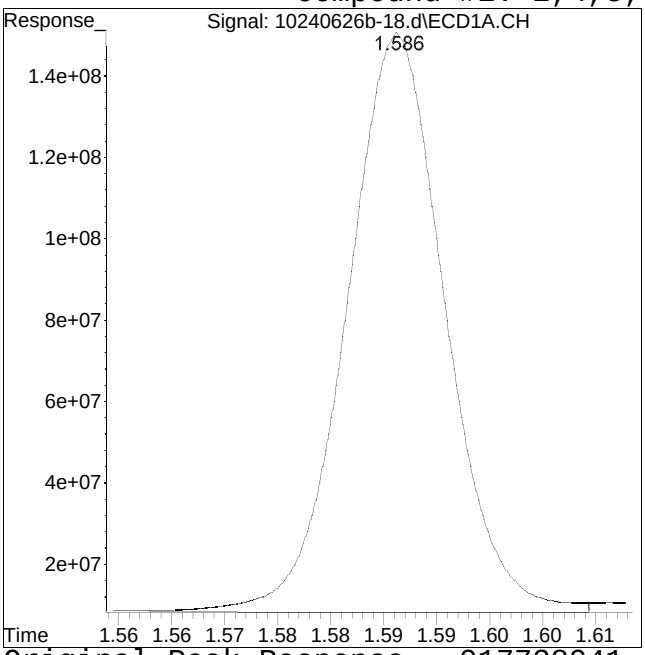


Original Peak Response = 173772836 Manual Peak Response = 170446620 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

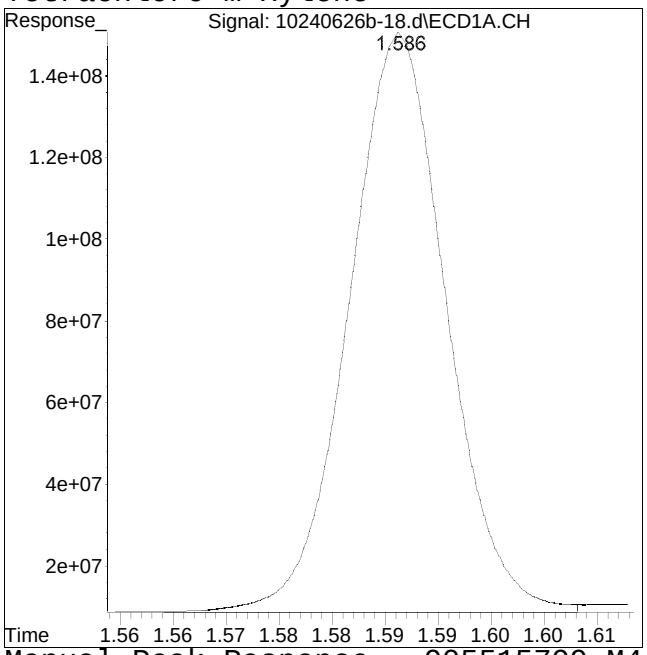
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240626QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240626b-18.d Operator : PEST10:peg
Date Inj'd : 6/26/2024 20:18 Instrument : Pest 10
Sample : WG1939408-1,42,, Quant Date : 6/27/2024 6:55 am

Compound #2: 2,4,5,6-Tetrachloro-m-xylene



Original Peak Response = 917728941



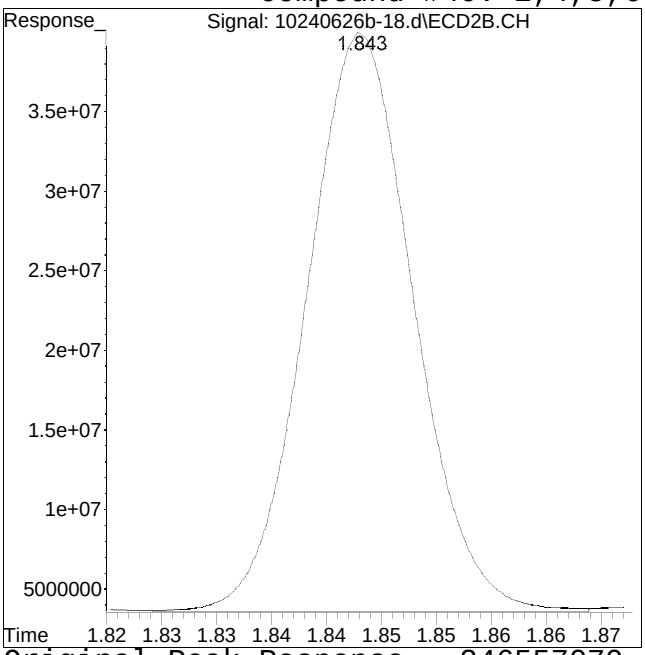
Manual Peak Response = 905515799 M4

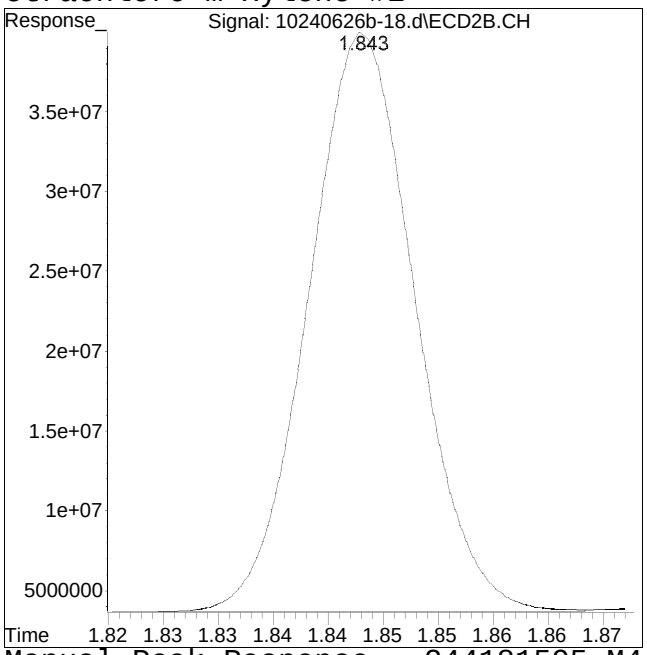
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240626QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240626b-18.d Operator : PEST10:peg
Date Inj'd : 6/26/2024 20:18 Instrument : Pest 10
Sample : WG1939408-1,42,, Quant Date : 6/27/2024 6:55 am

Compound #40: 2,4,5,6-Tetrachloro-m-xylene #2



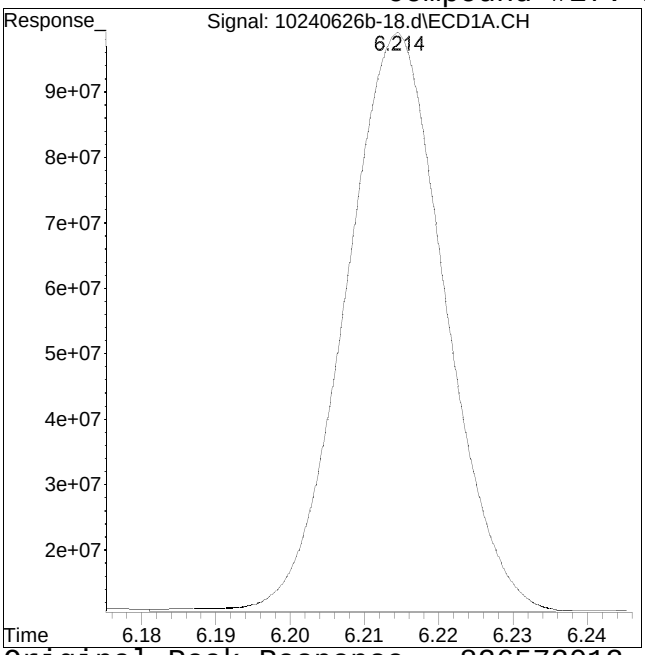


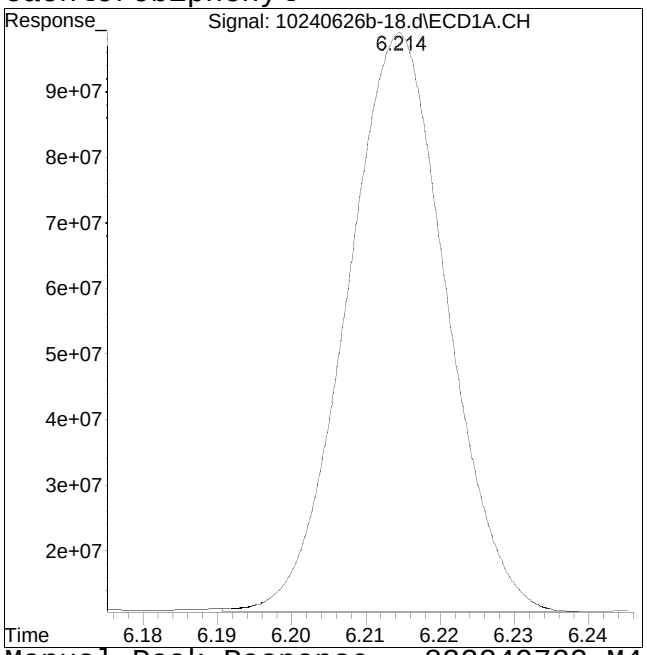
Original Peak Response = 246557079 Manual Peak Response = 244181595 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240626QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240626b-18.d Operator : PEST10:peg
Date Inj'd : 6/26/2024 20:18 Instrument : Pest 10
Sample : WG1939408-1,42,, Quant Date : 6/27/2024 6:55 am

Compound #27: Decachlorobiphenyl



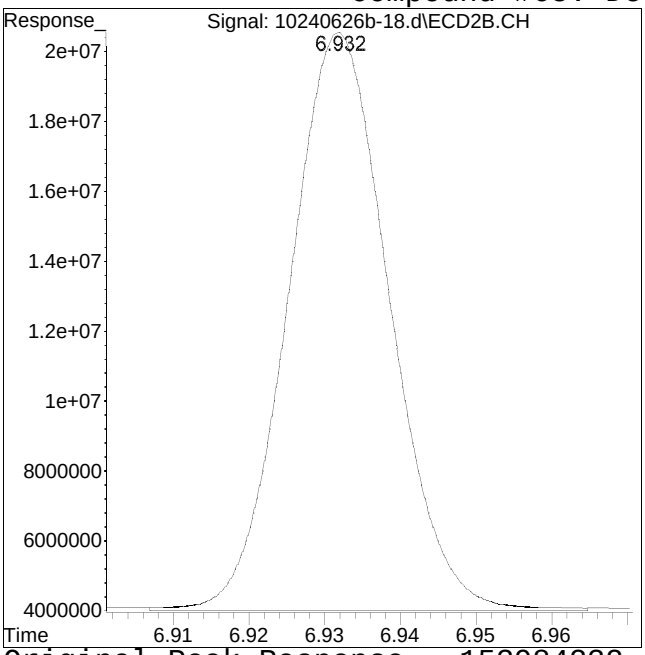


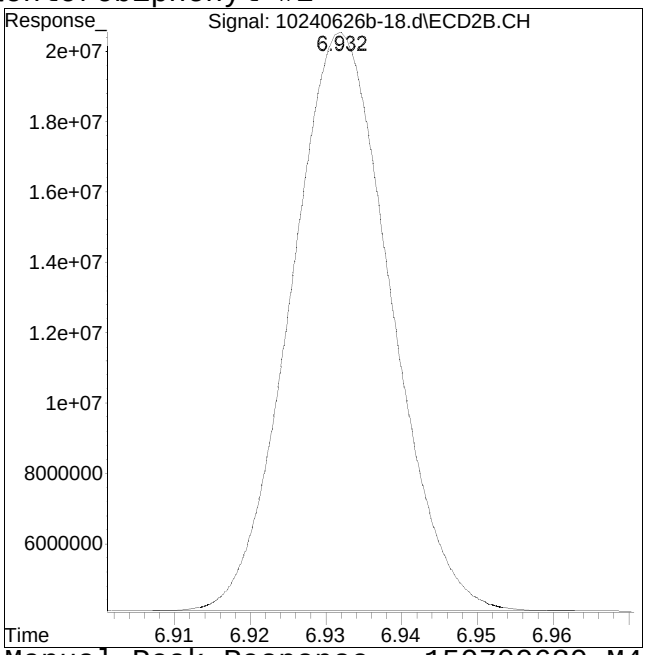
Original Peak Response = 826572012 Manual Peak Response = 822249722 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240626QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240626b-18.d Operator : PEST10:peg
Date Inj'd : 6/26/2024 20:18 Instrument : Pest 10
Sample : WG1939408-1,42,, Quant Date : 6/27/2024 6:55 am

Compound #65: Decachlorobiphenyl #2



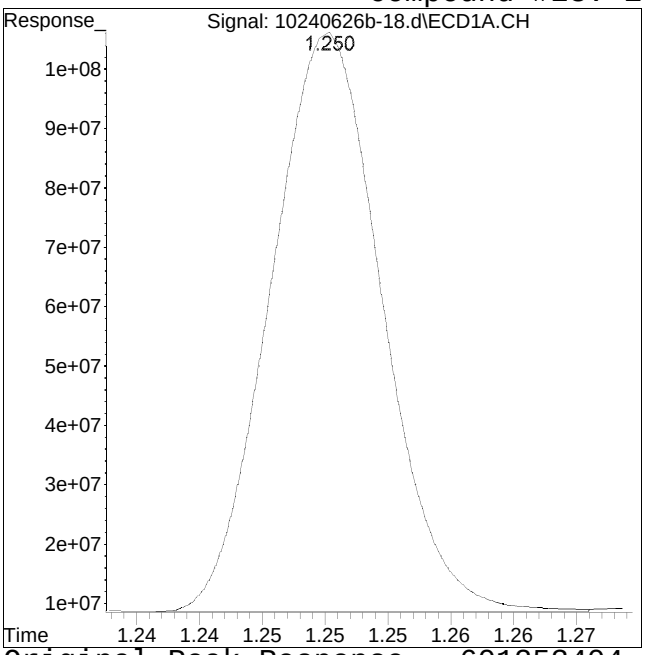


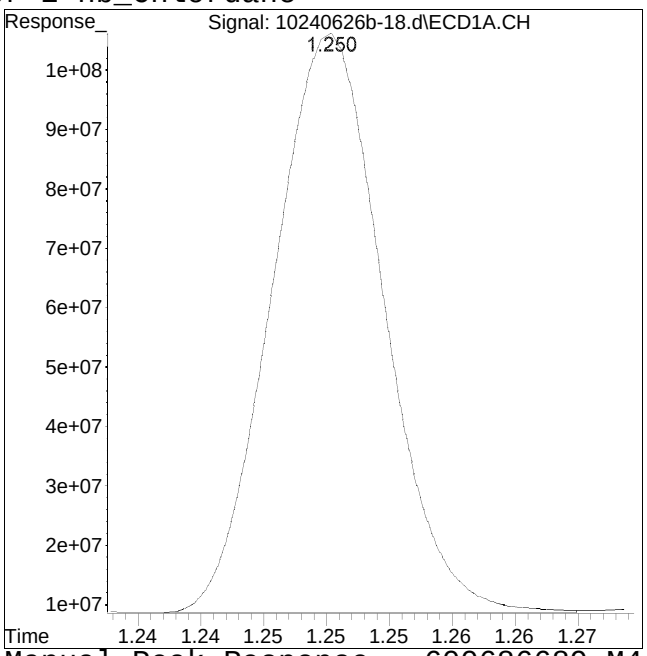
Original Peak Response = 153984232 Manual Peak Response = 150700630 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240626QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240626b-18.d Operator : PEST10:peg
Date Inj'd : 6/26/2024 20:18 Instrument : Pest 10
Sample : WG1939408-1,42,, Quant Date : 6/27/2024 6:55 am

Compound #28: 1-br-2-nb_Chlordane



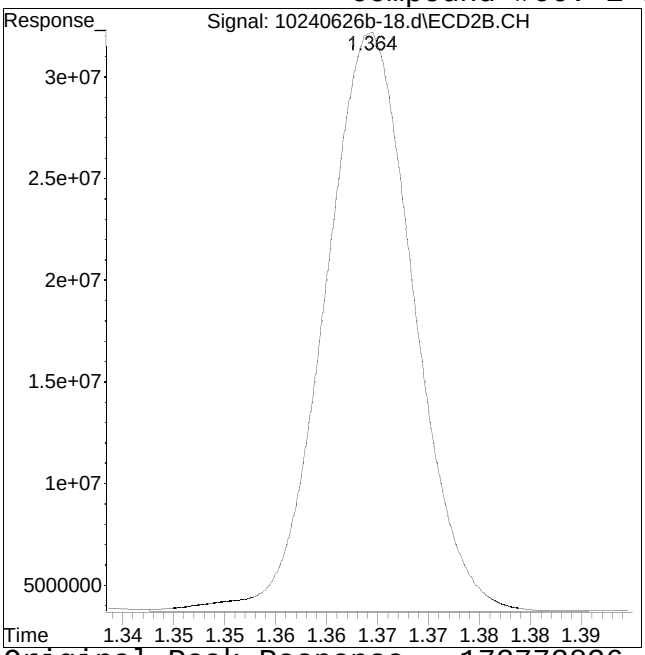


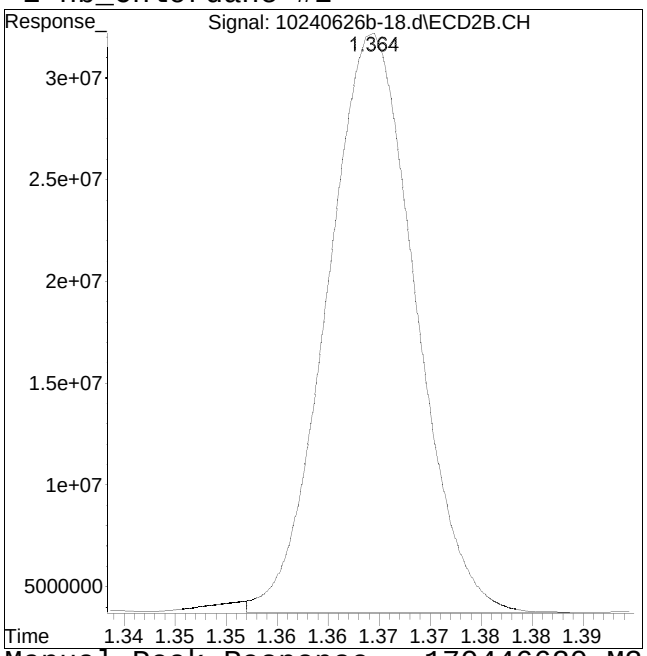
Original Peak Response = 601253404 Manual Peak Response = 600686689 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240626QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240626b-18.d Operator : PEST10:peg
Date Inj'd : 6/26/2024 20:18 Instrument : Pest 10
Sample : WG1939408-1,42,, Quant Date : 6/27/2024 6:55 am

Compound #66: 1-br-2-nb_Chlordane #2



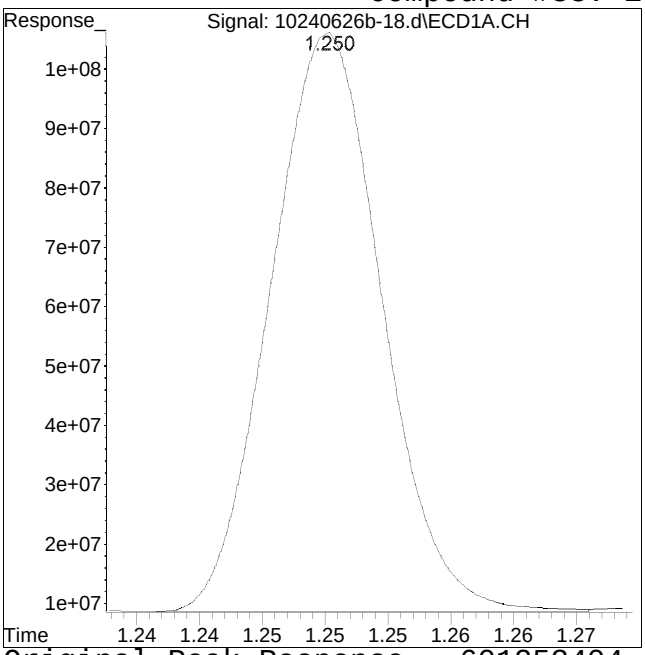


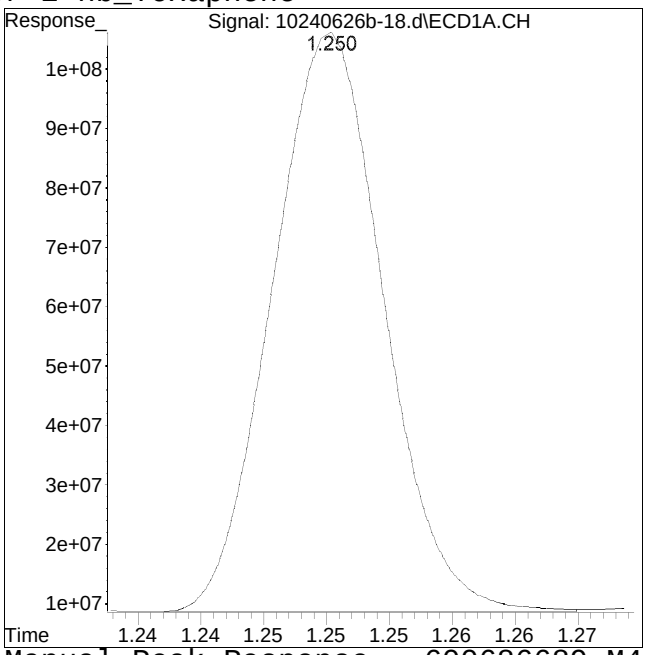
Original Peak Response = 173772836 Manual Peak Response = 170446620 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240626QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240626b-18.d Operator : PEST10:peg
Date Inj'd : 6/26/2024 20:18 Instrument : Pest 10
Sample : WG1939408-1,42,, Quant Date : 6/27/2024 6:55 am

Compound #33: 1-br-2-nb_Toxaphene



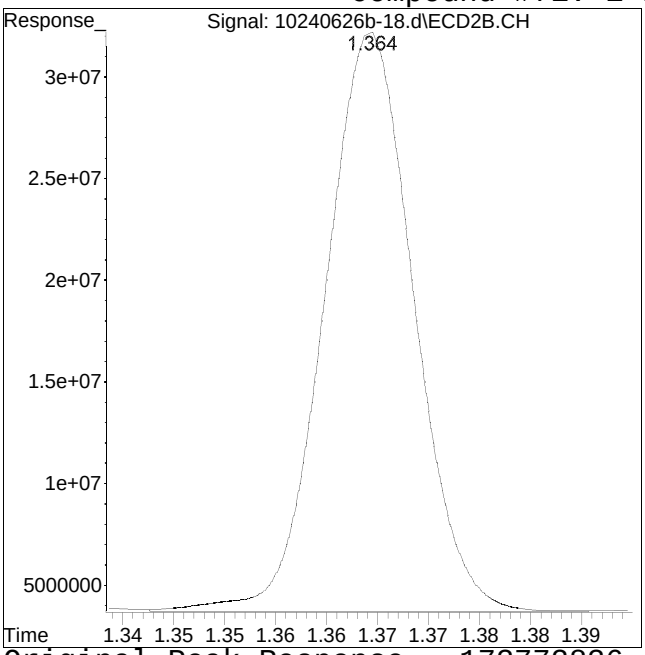


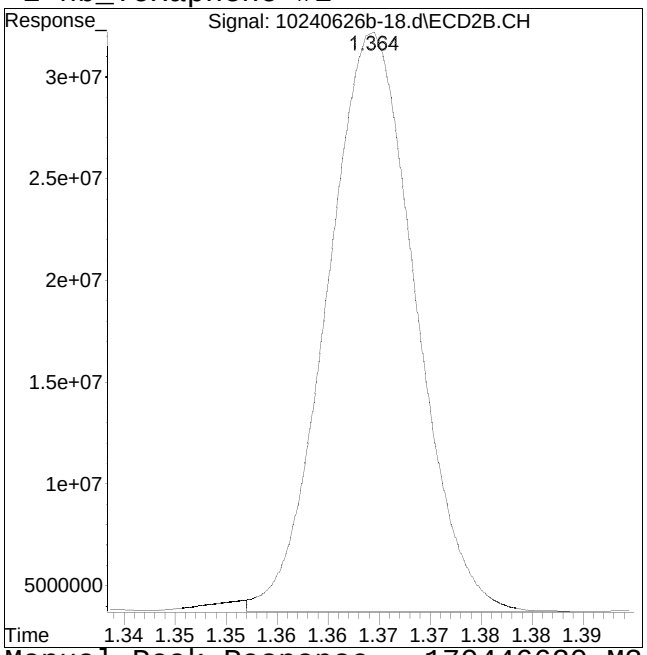
Original Peak Response = 601253404 Manual Peak Response = 600686689 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240626QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240626b-18.d Operator : PEST10:peg
Date Inj'd : 6/26/2024 20:18 Instrument : Pest 10
Sample : WG1939408-1,42,, Quant Date : 6/27/2024 6:55 am

Compound #71: 1-br-2-nb_Toxaphene #2





Original Peak Response = 173772836 Manual Peak Response = 170446620 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest10\2024\240624B\
Data File : 10240624b-14.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 24 Jun 2024 18:19
Operator : PEST10:emr
Sample : WG1938134-2,42,,
Misc : wg1938709,WG1938134,ical21109
ALS Vial : 14 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 25 08:57:21 2024
Quant Method : I:\PEST\Pest10\2024\240624B\pest10_2024_05_02_ugL_ical21109.m
Quant Title : pest
QLast Update : Mon Jun 24 18:30:48 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PEST\Pest10\2024\240624B\10240624b-03.d
Sub List : LCS_MS - spk only

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Internal Standards							
1) i	1-br-2-nb_Pe	1.252	1.367	548.8E6	156.1E6	25.000	25.000
	Standard Area 1 : #1 = 521435419				Recovery = 105.25%		
	Standard Area 1 : #2 = 149552544				Recovery = 104.37%		
System Monitoring Compounds							
2) s	2,4,5,6-Tetr	1.589	1.847	730.6E6	198.0E6	30.667	33.740
	Spiked Amount 50.000	Range 30 - 150		Recovery = 61.33%		67.48%	
27) s	Decachlorobi	6.220	6.931	761.9E6	184.9E6	42.823M4	40.836
	Spiked Amount 50.000	Range 30 - 150		Recovery = 85.65%		81.67%	
Target Compounds							
4) t	alpha-BHC	1.893	2.265	1158.5E6	307.1E6	34.941M4	36.754
5) t	gamma-BHC (l	2.090	2.552	1083.1E6	286.6E6	34.469M4	36.518
6) t	beta-BHC	2.145	2.616	466.4E6	128.1E6	37.052M4	37.167
7) t	delta-BHC	2.270	2.883	1037.5E6	263.7E6	33.463M4	33.457M4
8) t	Heptachlor	2.427	2.949	1119.2E6	274.7E6	37.502M4	35.240M4
9) t	Aldrin	2.664	3.268	970.1E6	253.3E6	34.468M4	35.677M4
12) t	Heptachlor E	3.197	3.886	965.5E6	242.0E6	36.010M4	34.089M4
13) t	gamma-Chlord	3.319	4.106	969.5E6	259.9E6	39.529M4	41.158M4
14) t	alpha-Chlord	3.451	4.278	907.5E6	252.0E6	32.571M4	35.491M4
15) t	4,4'-DDE	3.547	4.477	952.2E6	246.5E6	36.089M4	37.540M4
16) t	Endosulfan I	3.585	4.340	895.6E6	234.7E6	35.083M4	35.532M4
17) t	Dieldrin	3.840	4.633	1048.1E6	264.7E6	39.780M4	40.043M4
18) t	Endrin	4.093	4.932	1036.7E6	254.3E6	38.308M4	37.501
19) t	4,4'-DDD	4.210	5.054	854.2E6	206.7E6	39.823M4	39.137M4
20) t	Endosulfan I	4.343	5.131	910.1E6	230.8E6	38.964M4	38.864
21) t	4,4'-DDT	4.514	5.332	868.5E6	223.6E6	36.588M4	37.319M4
22) t	Endrin Aldeh	4.774	5.429	543.9E6	140.8E6	30.469M4	29.305
23) t	Methoxychlor	5.017	5.900	528.2E6	126.3E6	48.024M4	41.885
25) t	Endosulfan S	5.175	5.658	850.2E6	211.4E6	36.708M4	35.702

Data Path : I:\PEST\Pest10\2024\240624B\
Data File : 10240624b-14.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 24 Jun 2024 18:19
Operator : PEST10:emr
Sample : WG1938134-2,42,,
Misc : wg1938709,WG1938134,ical21109
ALS Vial : 14 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 25 08:57:21 2024
Quant Method : I:\PEST\Pest10\2024\240624B\pest10_2024_05_02_ugL_ical21109.m
Quant Title : pest
QLast Update : Mon Jun 24 18:30:48 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PEST\Pest10\2024\240624B\10240624b-03.d
Sub List : LCS_MS - spk only

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
26) t Endrin Keton	5.406	6.071	1025.5E6	254.7E6	40.368M4	39.480
Sum chlordane-1			0	0	N.D.	N.D.
Average chlordane-1					0.000	0.000
Sum toxaphene-1			0	0	N.D.	N.D.
Average toxaphene-1					0.000	0.000
SemiQuant Compounds - Not Calibrated on this Instrument						
Sum toxaphene-1			0	0	N.D.	N.D.
Average toxaphene-1					0.000	0.000

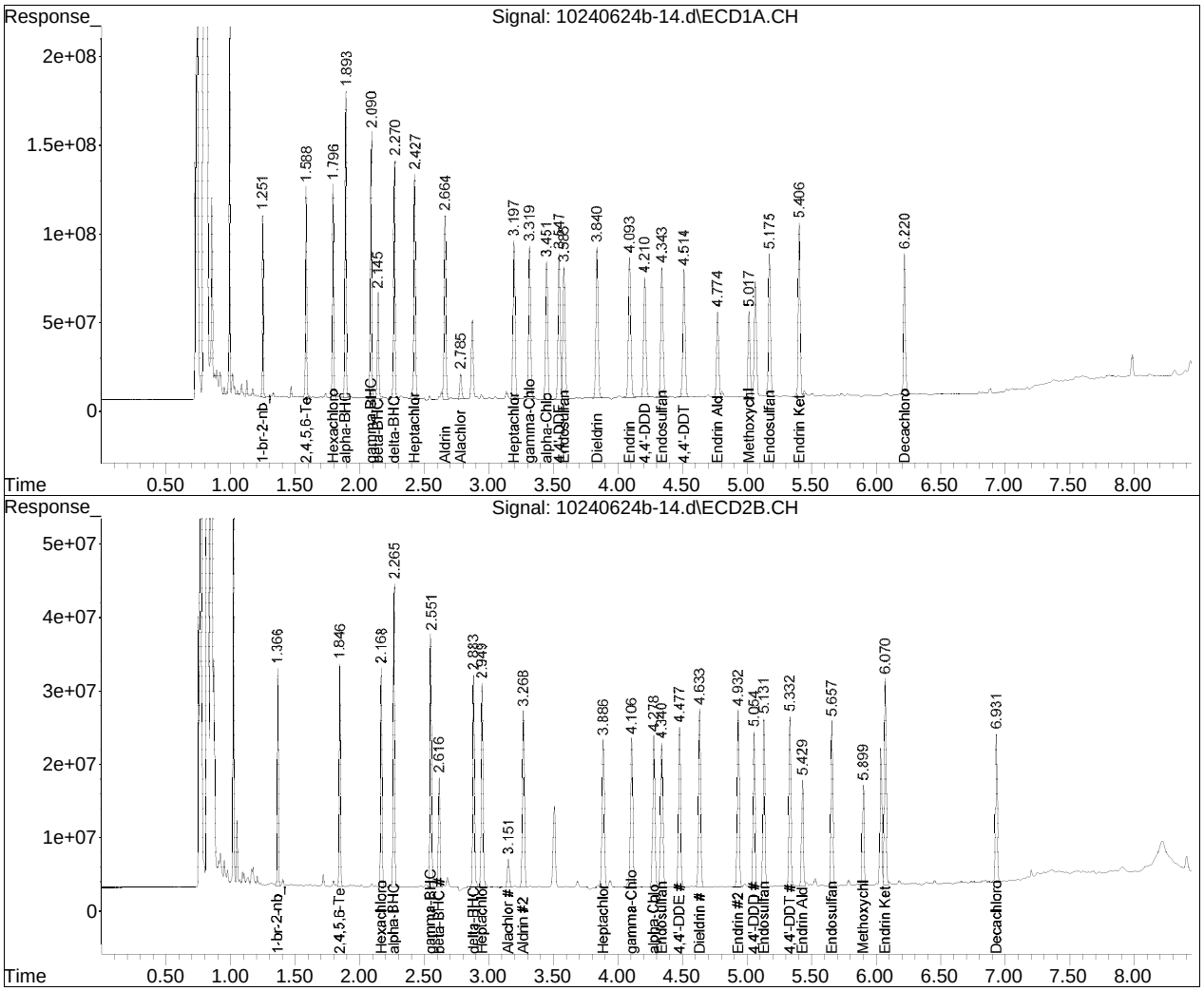
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : LCS_MS - spk only0\2024\240624B\10240624b-03.d•

Data Path : I:\PEST\Pest10\2024\240624B\
Data File : 10240624b-14.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 24 Jun 2024 18:19
Operator : PEST10:emr
Sample : WG1938134-2,42,,
Misc : wg1938709,WG1938134,ical21109
ALS Vial : 14 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 25 08:57:21 2024
Quant Method : I:\PEST\Pest10\2024\240624B\pest10_2024_05_02_ugL_ical21109.m
Quant Title : pest
QLast Update : Mon Jun 24 18:30:48 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

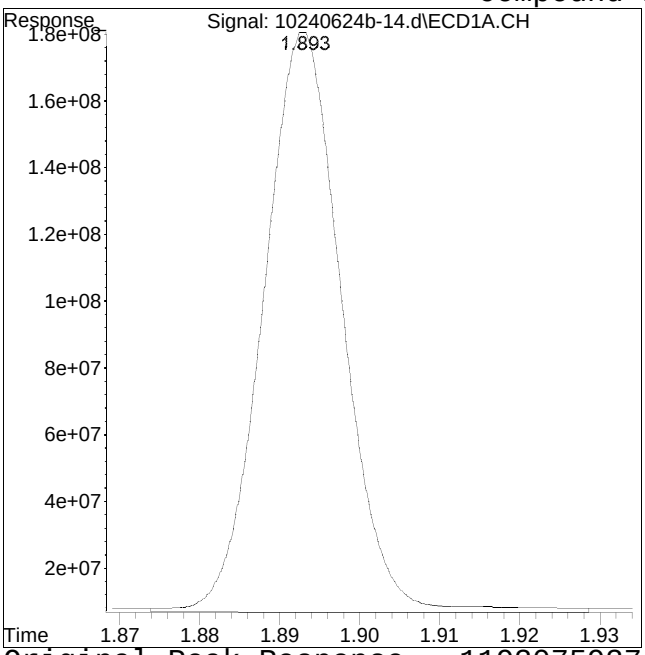
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

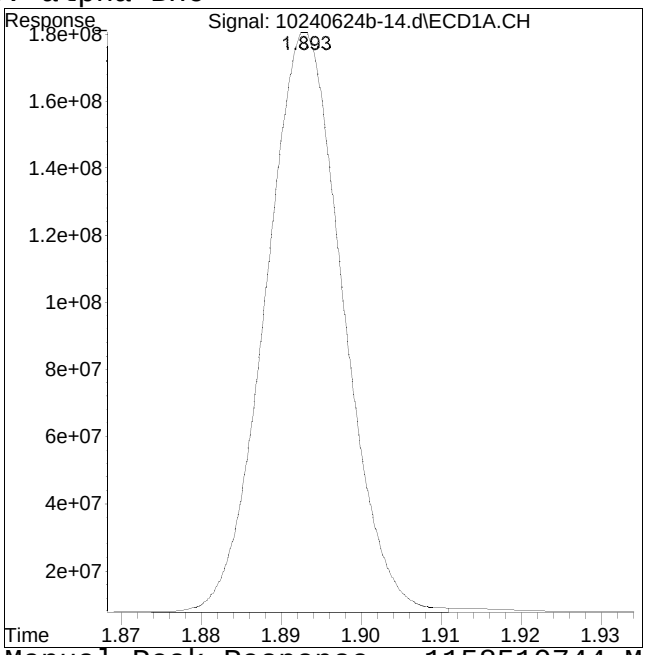


Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240624QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240624b-14.d Operator : PEST10:emr
Date Inj'd : 6/24/2024 18:19 Instrument : Pest 10
Sample : WG1938134-2,42,, Quant Date : 6/25/2024 8:57 am

Compound #4: alpha-BHC



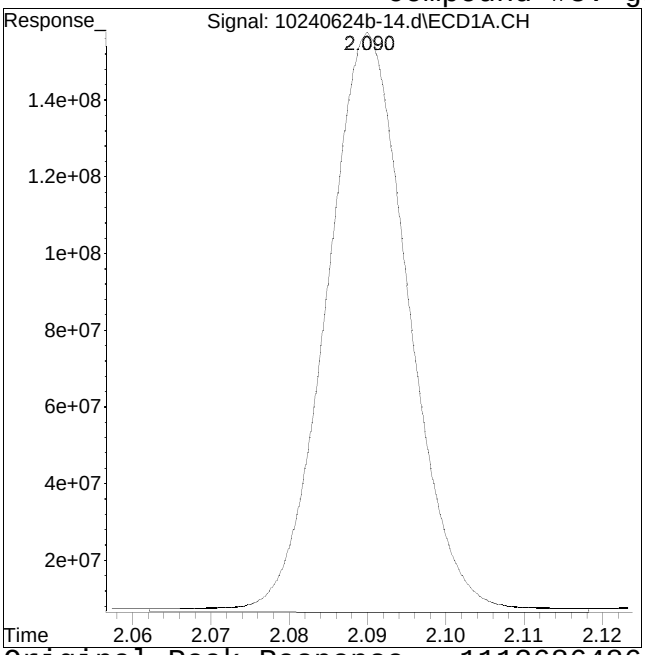


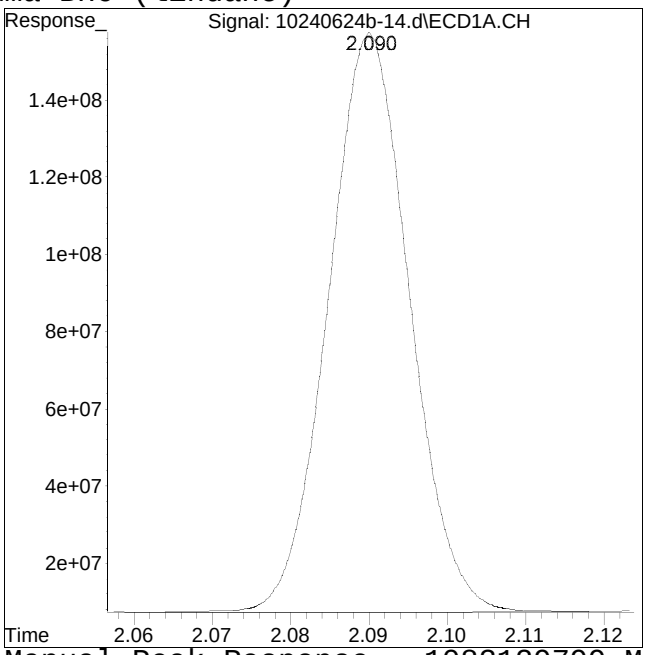
Original Peak Response = 1193075937 Manual Peak Response = 1158510744 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240624QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240624b-14.d Operator : PEST10:emr
Date Inj'd : 6/24/2024 18:19 Instrument : Pest 10
Sample : WG1938134-2,42,, Quant Date : 6/25/2024 8:57 am

Compound #5: gamma-BHC (lindane)



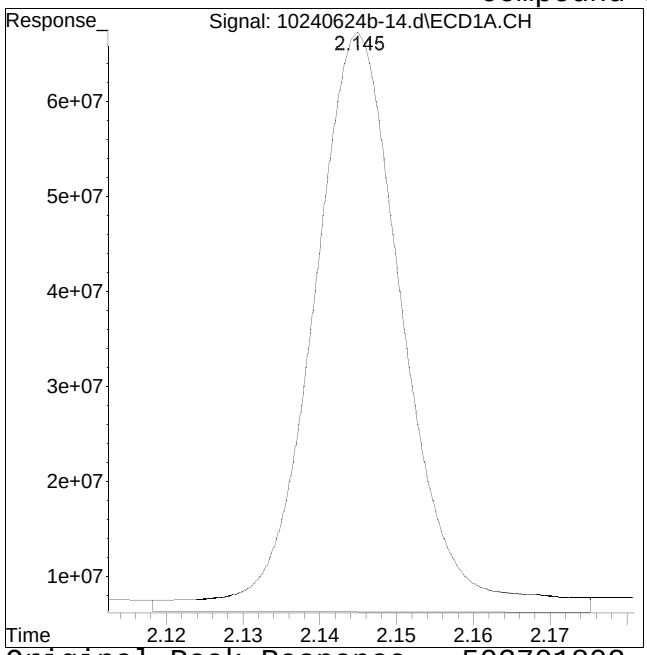


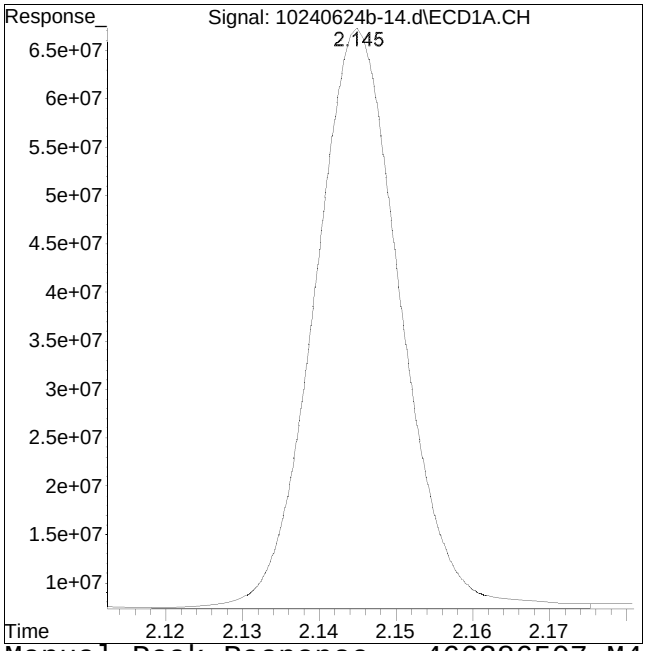
Original Peak Response = 1112686486 Manual Peak Response = 1083129799 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240624QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240624b-14.d Operator : PEST10:emr
Date Inj'd : 6/24/2024 18:19 Instrument : Pest 10
Sample : WG1938134-2,42,, Quant Date : 6/25/2024 8:57 am

Compound #6: beta-BHC



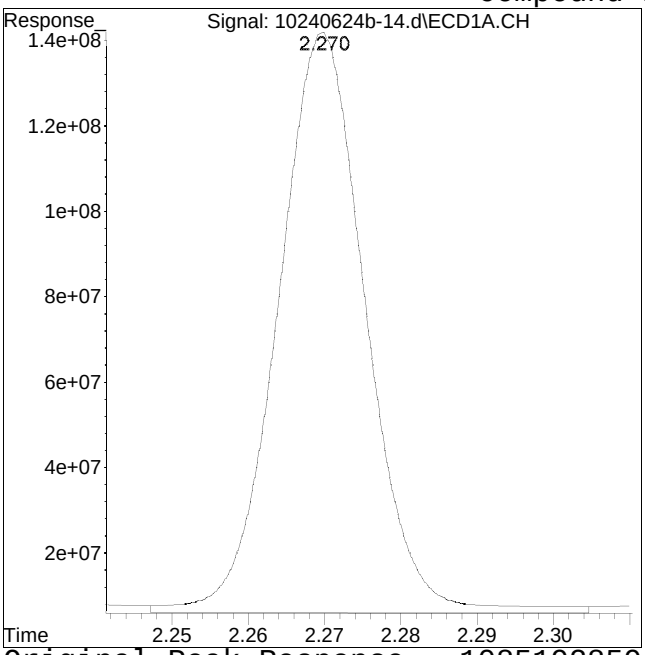


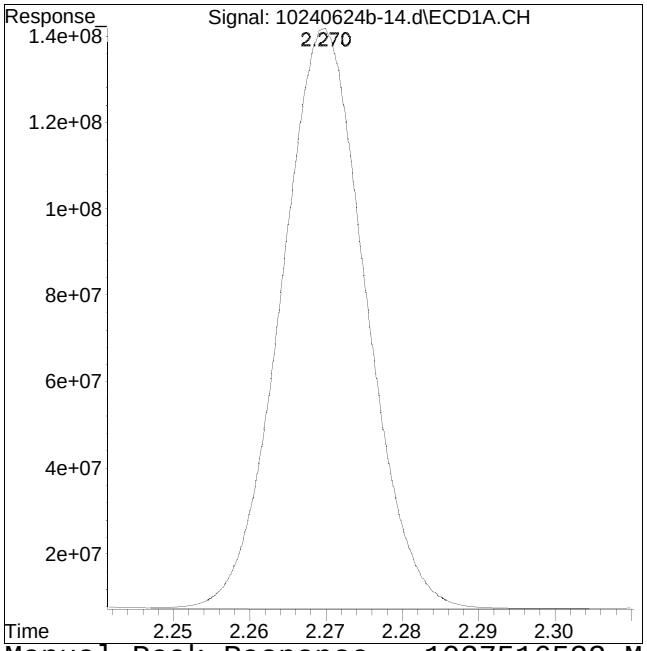
Original Peak Response = 503701802 Manual Peak Response = 466386507 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240624QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240624b-14.d Operator : PEST10:emr
Date Inj'd : 6/24/2024 18:19 Instrument : Pest 10
Sample : WG1938134-2,42,, Quant Date : 6/25/2024 8:57 am

Compound #7: delta-BHC



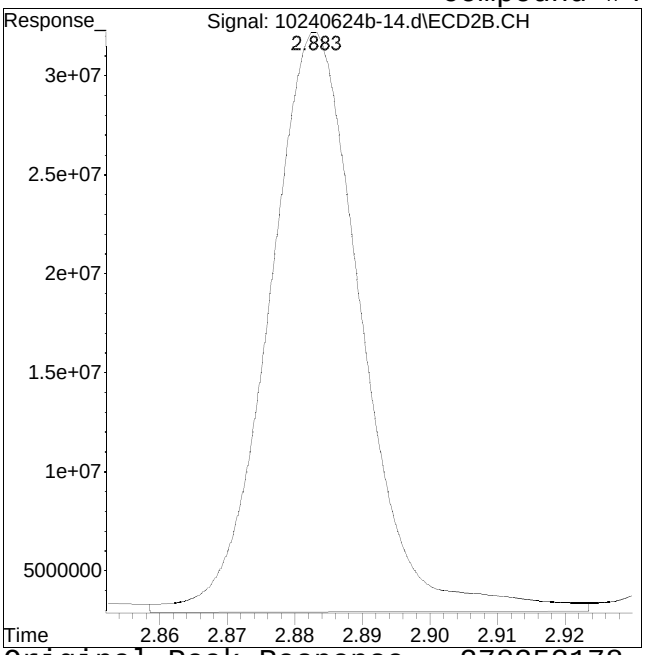


Original Peak Response = 1085192859 Manual Peak Response = 1037516533 M4
M4 = Poor automated baseline construction.

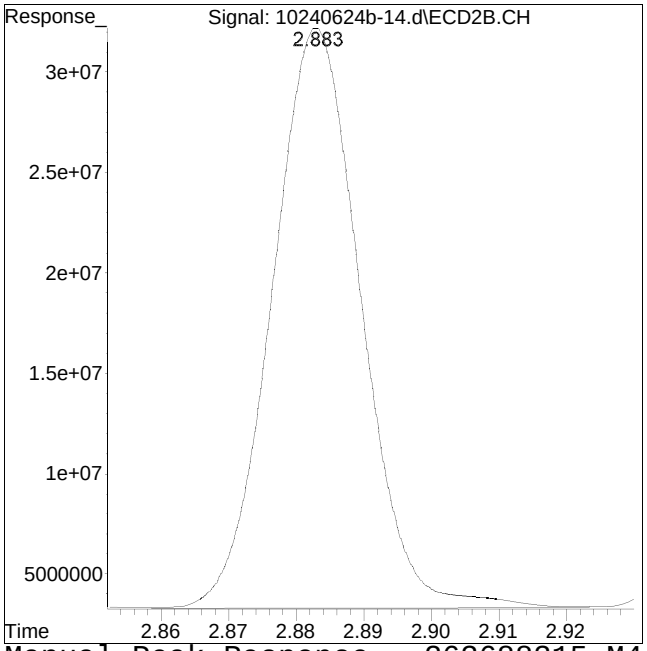
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240624QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240624b-14.d Operator : PEST10:emr
Date Inj'd : 6/24/2024 18:19 Instrument : Pest 10
Sample : WG1938134-2,42,, Quant Date : 6/25/2024 8:57 am

Compound #45: delta-BHC #2



Original Peak Response = 278353178



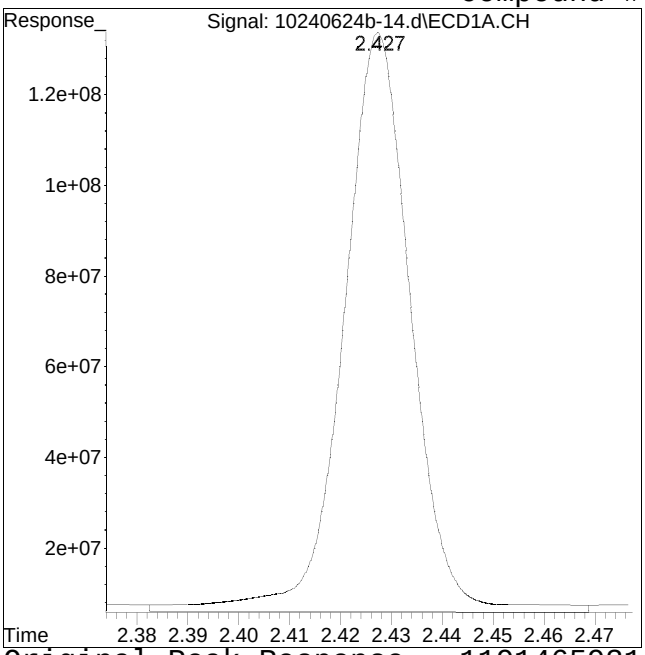
Manual Peak Response = 263688315 M4

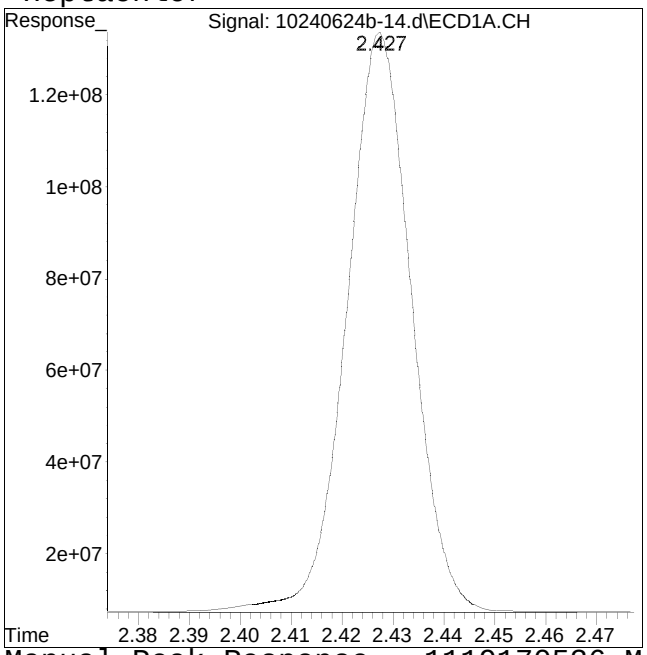
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240624QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240624b-14.d Operator : PEST10:emr
Date Inj'd : 6/24/2024 18:19 Instrument : Pest 10
Sample : WG1938134-2,42,, Quant Date : 6/25/2024 8:57 am

Compound #8: Heptachlor



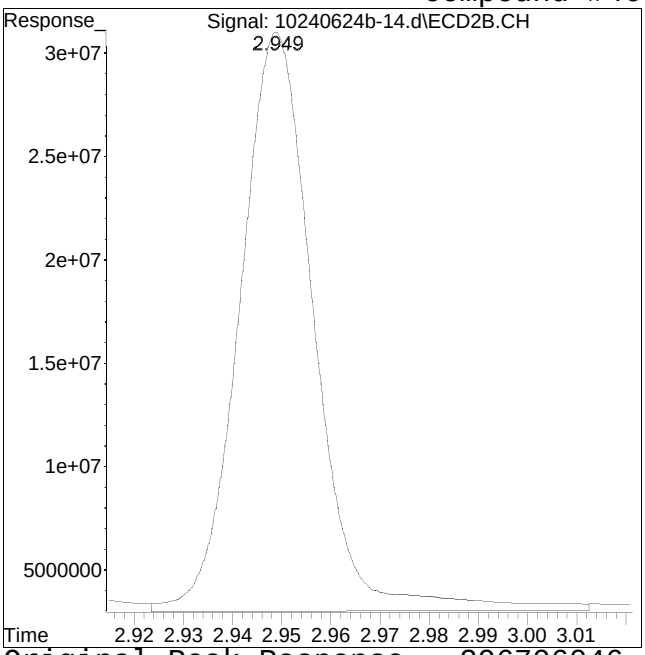


Original Peak Response = 1191465931 Manual Peak Response = 1119170536 M4
M4 = Poor automated baseline construction.

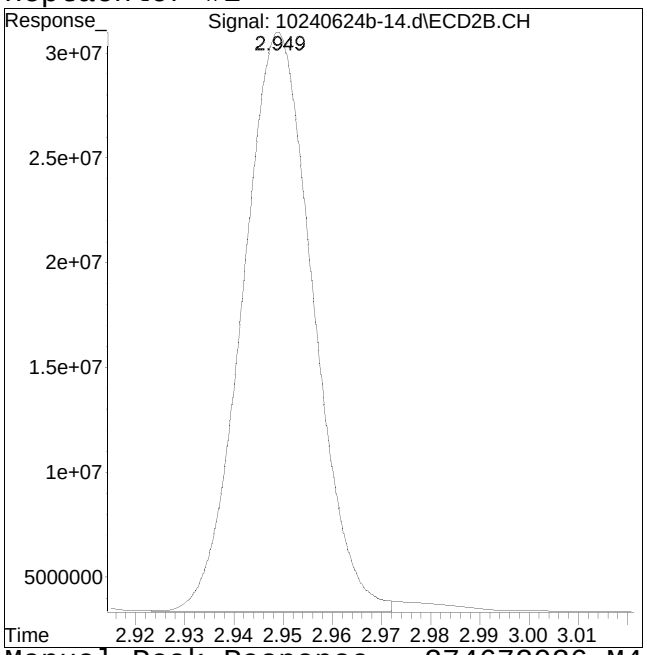
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240624QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240624b-14.d Operator : PEST10:emr
Date Inj'd : 6/24/2024 18:19 Instrument : Pest 10
Sample : WG1938134-2,42,, Quant Date : 6/25/2024 8:57 am

Compound #46: Heptachlor #2



Original Peak Response = 296706046



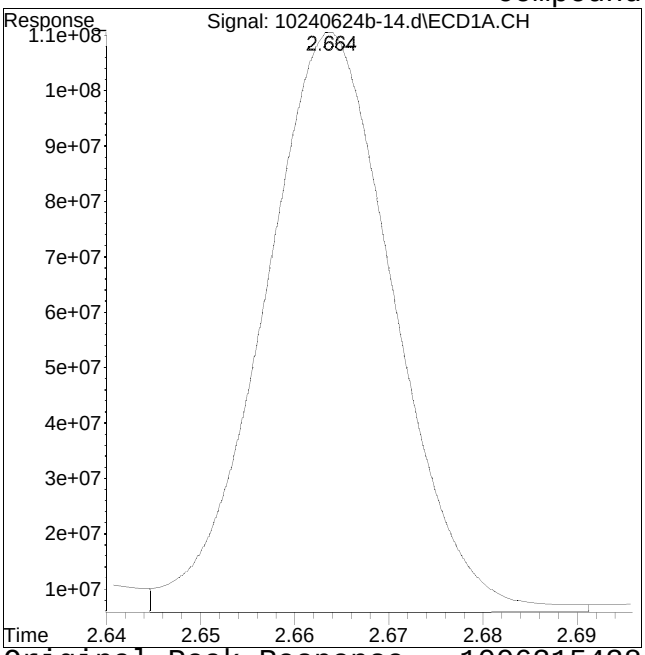
Manual Peak Response = 274672036 M4

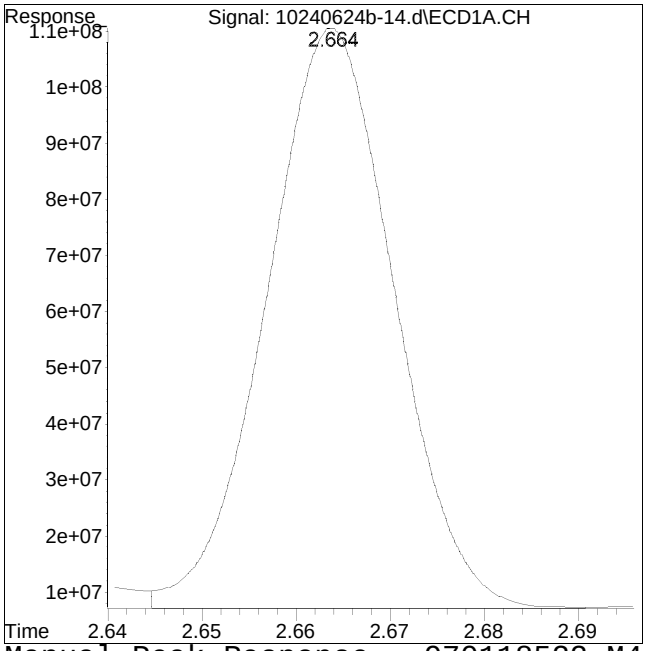
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240624QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240624b-14.d Operator : PEST10:emr
Date Inj'd : 6/24/2024 18:19 Instrument : Pest 10
Sample : WG1938134-2,42,, Quant Date : 6/25/2024 8:57 am

Compound #9: Aldrin



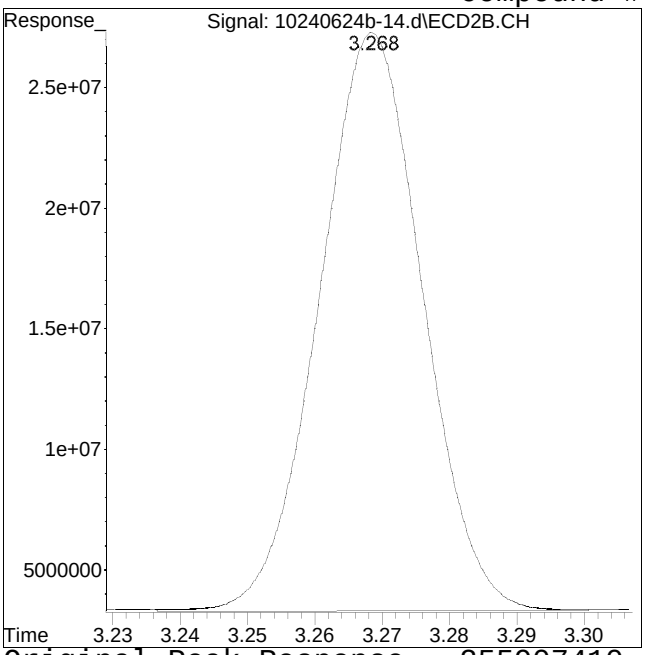


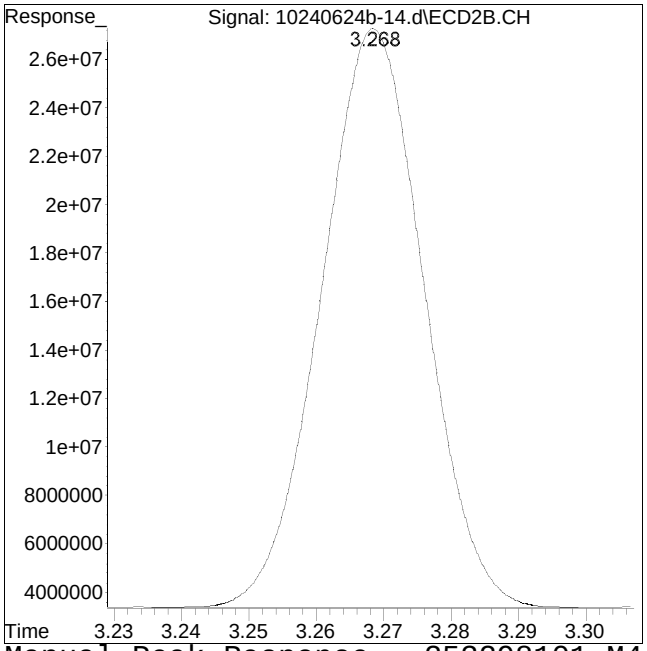
Original Peak Response = 1006315438 Manual Peak Response = 970118522 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240624QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240624b-14.d Operator : PEST10:emr
Date Inj'd : 6/24/2024 18:19 Instrument : Pest 10
Sample : WG1938134-2,42,, Quant Date : 6/25/2024 8:57 am

Compound #47: Aldrin #2



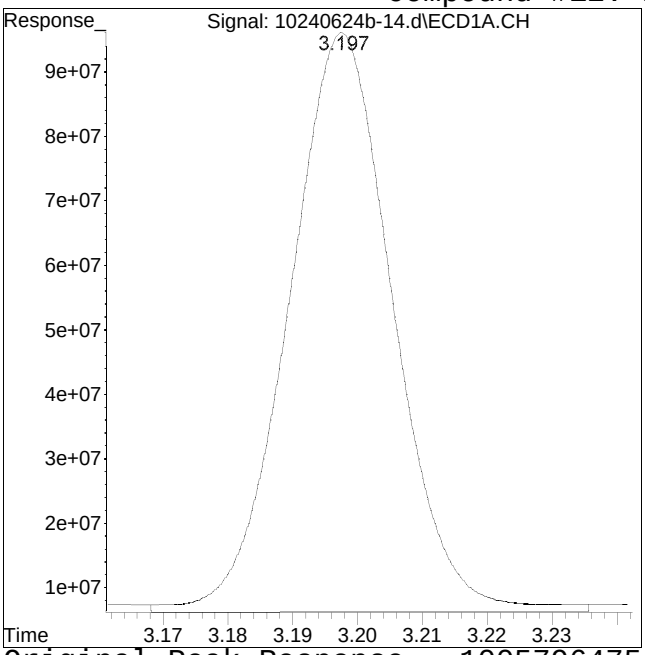


Original Peak Response = 255907410 Manual Peak Response = 253298101 M4
M4 = Poor automated baseline construction.

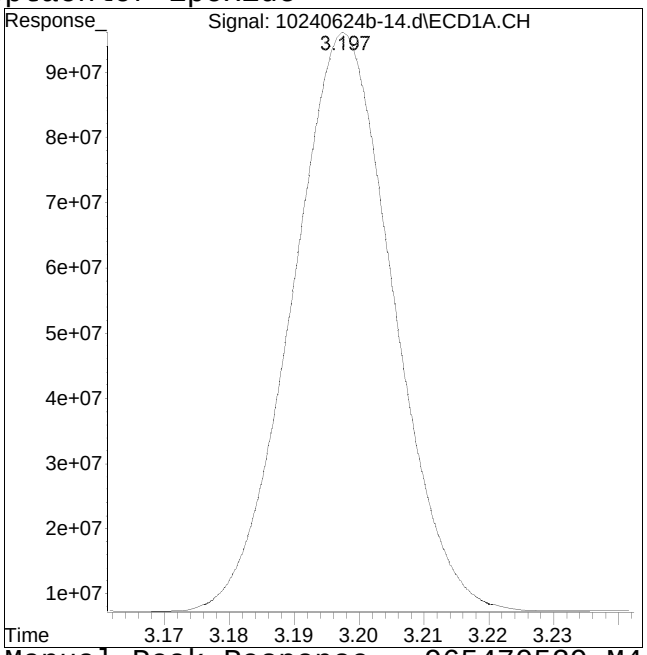
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240624QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240624b-14.d Operator : PEST10:emr
Date Inj'd : 6/24/2024 18:19 Instrument : Pest 10
Sample : WG1938134-2,42,, Quant Date : 6/25/2024 8:57 am

Compound #12: Heptachlor Epoxide



Original Peak Response = 1005796475



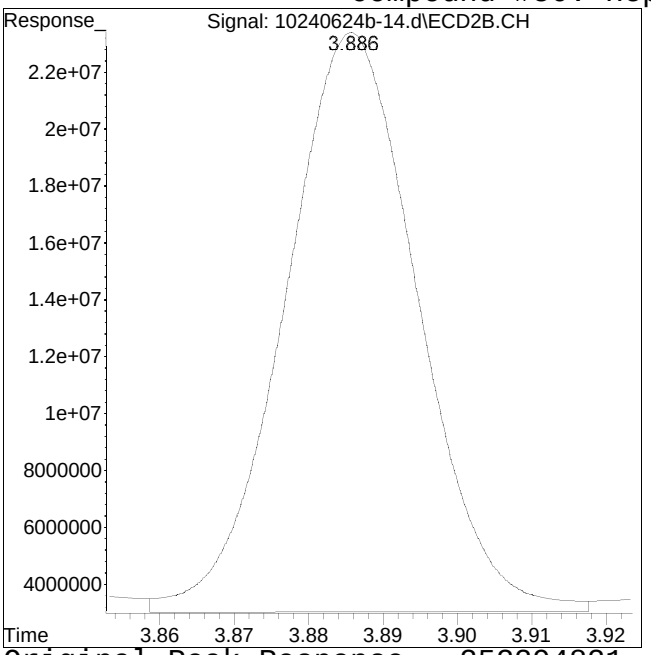
Manual Peak Response = 965470529 M4

M4 = Poor automated baseline construction.

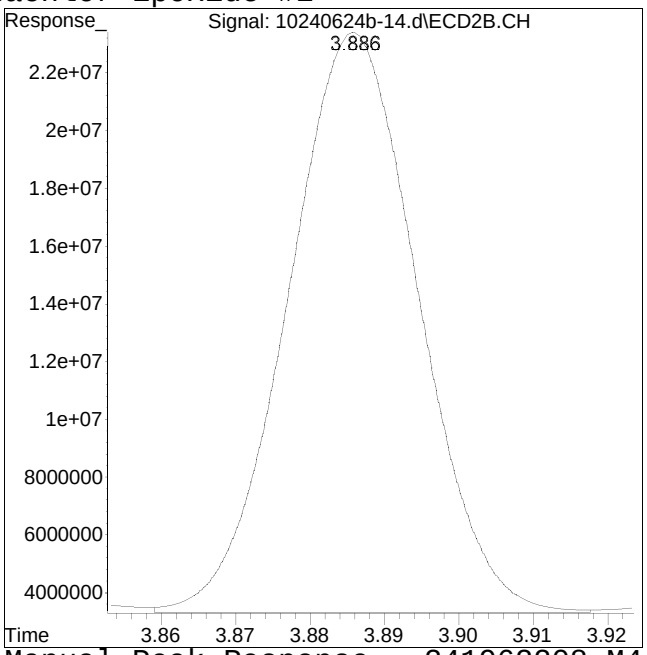
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240624QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240624b-14.d Operator : PEST10:emr
Date Inj'd : 6/24/2024 18:19 Instrument : Pest 10
Sample : WG1938134-2,42,, Quant Date : 6/25/2024 8:57 am

Compound #50: Heptachlor Epoxide #2



Original Peak Response = 252294821



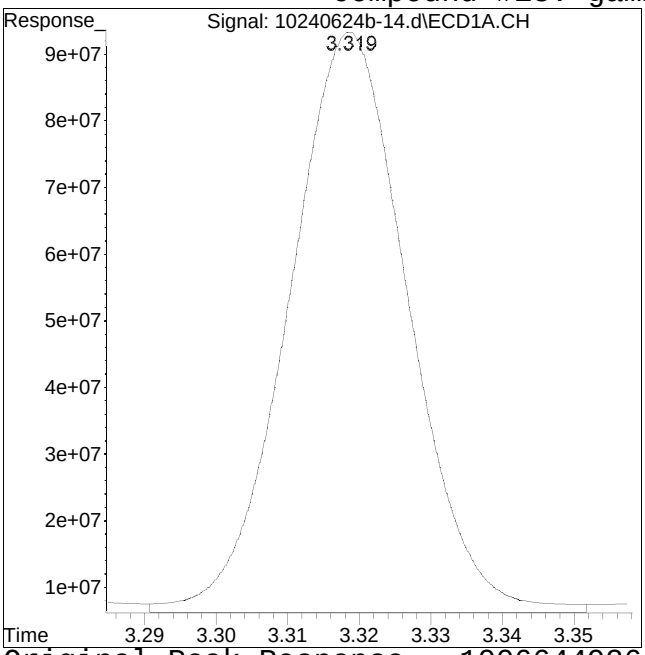
Manual Peak Response = 241962208 M4

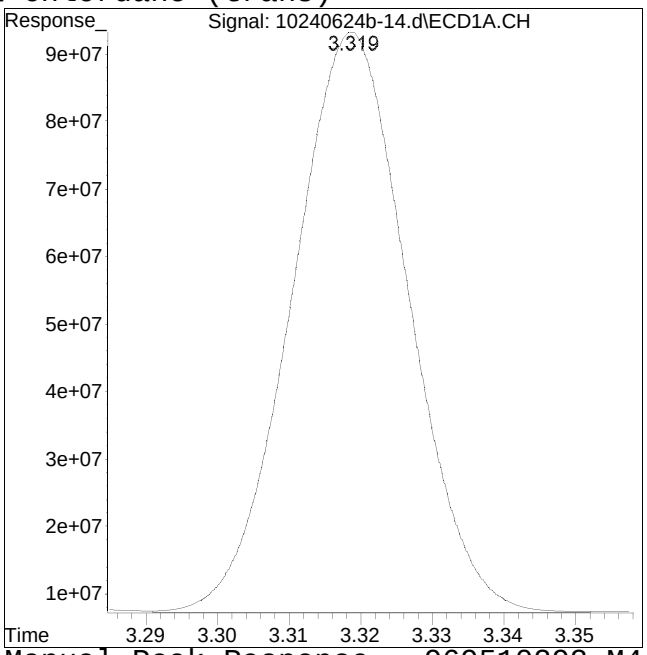
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240624QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240624b-14.d Operator : PEST10:emr
Date Inj'd : 6/24/2024 18:19 Instrument : Pest 10
Sample : WG1938134-2,42,, Quant Date : 6/25/2024 8:57 am

Compound #13: gamma-Chlordane (trans)



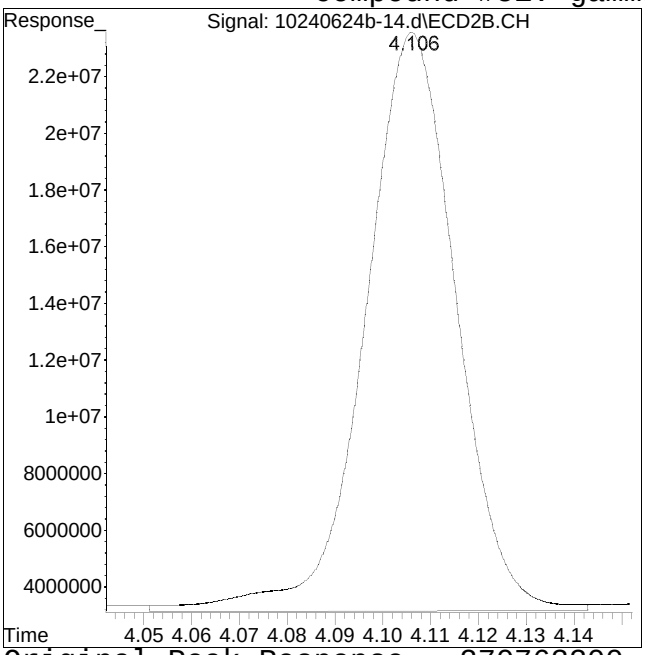


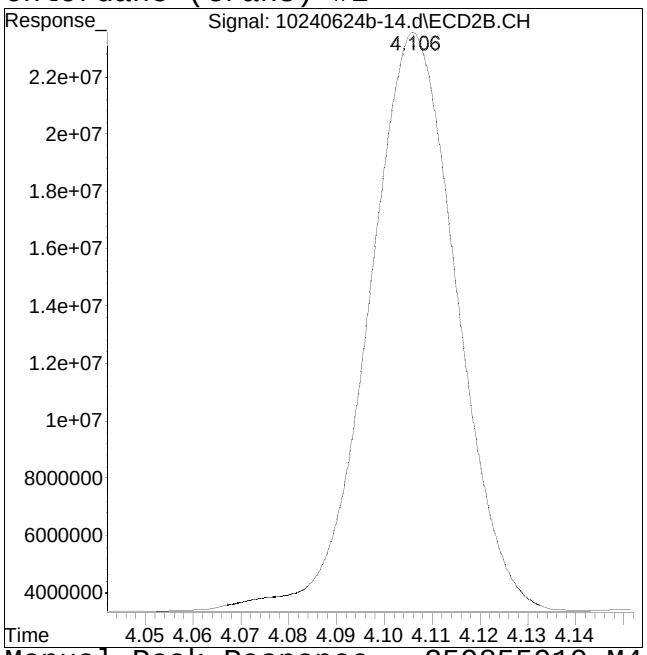
Original Peak Response = 1006644926 Manual Peak Response = 969510292 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240624QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240624b-14.d Operator : PEST10:emr
Date Inj'd : 6/24/2024 18:19 Instrument : Pest 10
Sample : WG1938134-2,42,, Quant Date : 6/25/2024 8:57 am

Compound #51: gamma-Chlordane (trans) #2



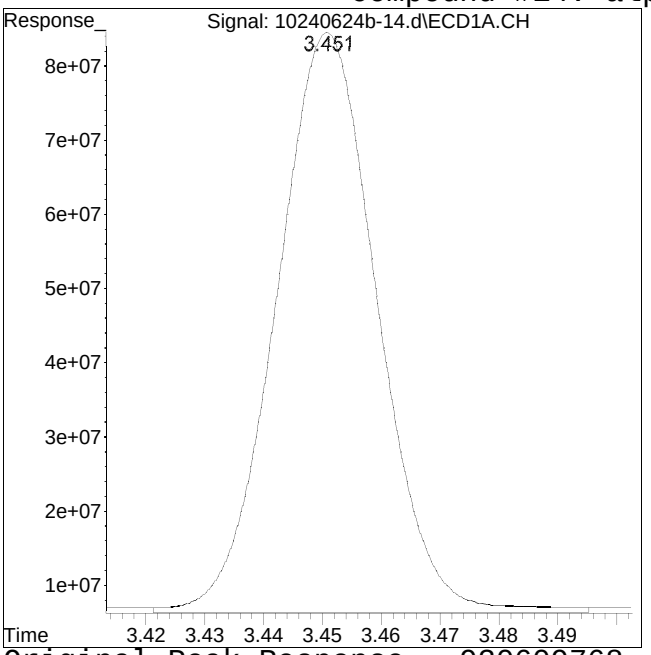


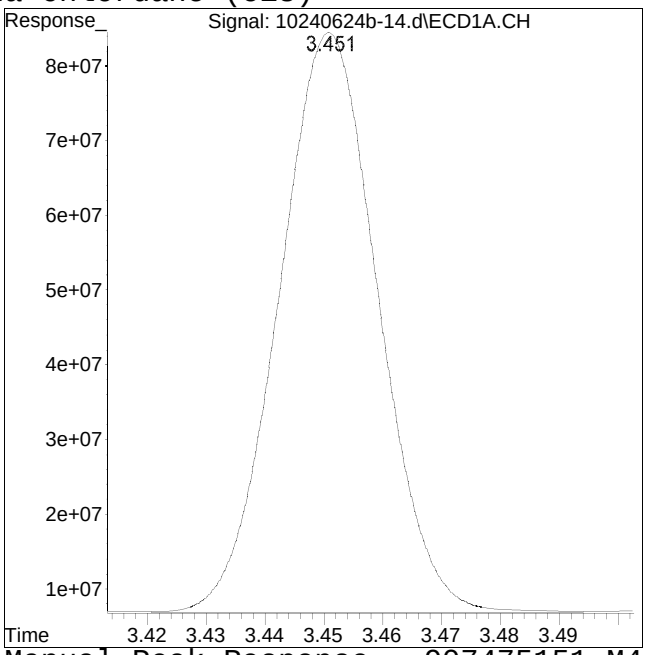
Original Peak Response = 270763300 Manual Peak Response = 259855910 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240624QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240624b-14.d Operator : PEST10:emr
Date Inj'd : 6/24/2024 18:19 Instrument : Pest 10
Sample : WG1938134-2,42,, Quant Date : 6/25/2024 8:57 am

Compound #14: alpha-Chlordane (cis)



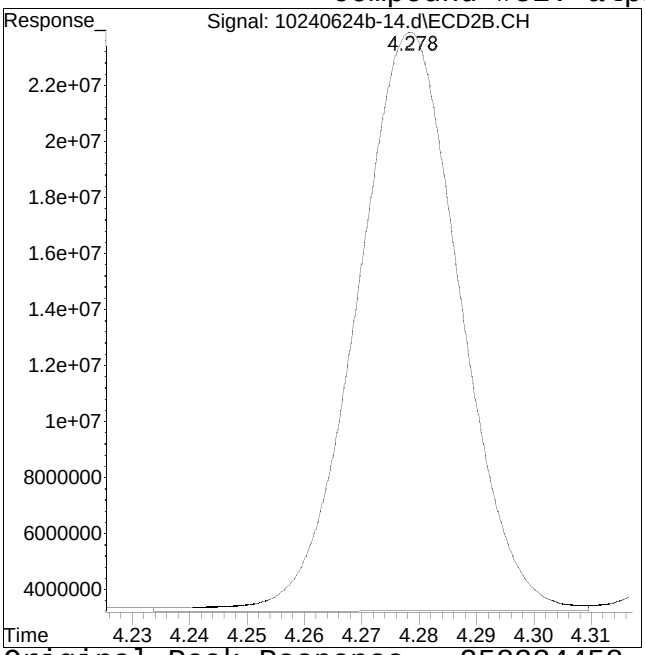


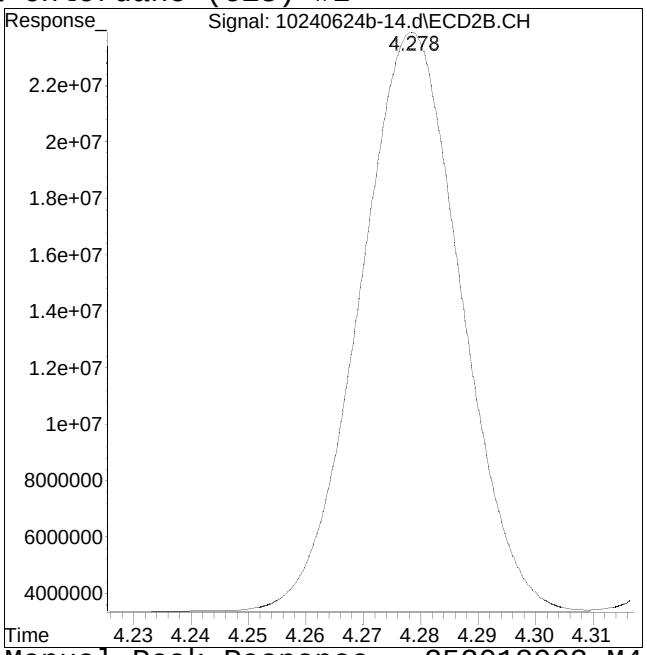
Original Peak Response = 930609768 Manual Peak Response = 907475151 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240624QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240624b-14.d Operator : PEST10:emr
Date Inj'd : 6/24/2024 18:19 Instrument : Pest 10
Sample : WG1938134-2,42,, Quant Date : 6/25/2024 8:57 am

Compound #52: alpha-Chlordane (cis) #2



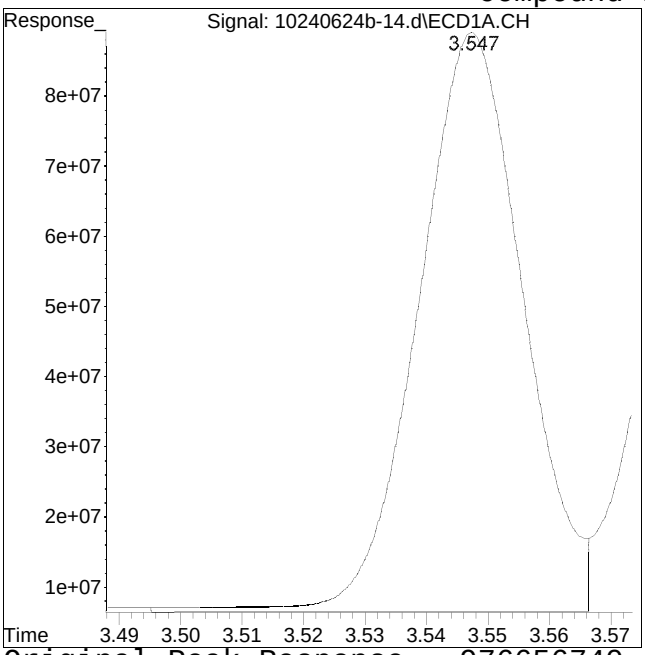


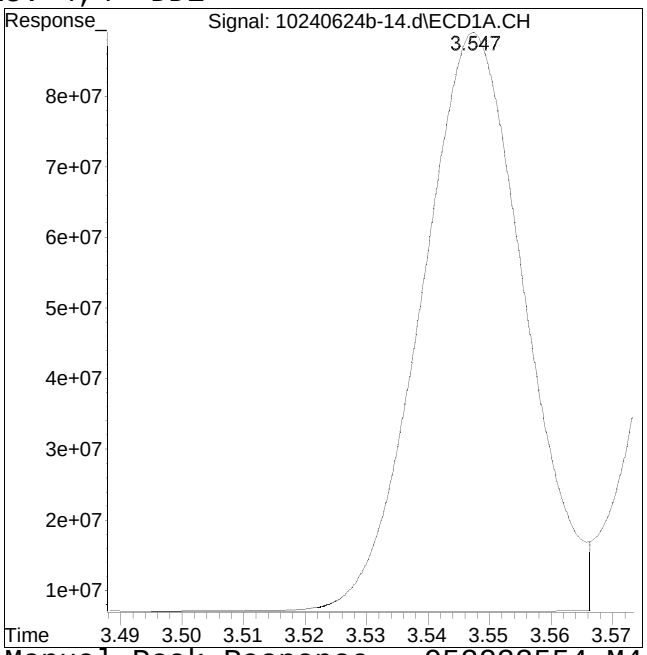
Original Peak Response = 258324458 Manual Peak Response = 252018903 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240624QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240624b-14.d Operator : PEST10:emr
Date Inj'd : 6/24/2024 18:19 Instrument : Pest 10
Sample : WG1938134-2,42,, Quant Date : 6/25/2024 8:57 am

Compound #15: 4,4'-DDE



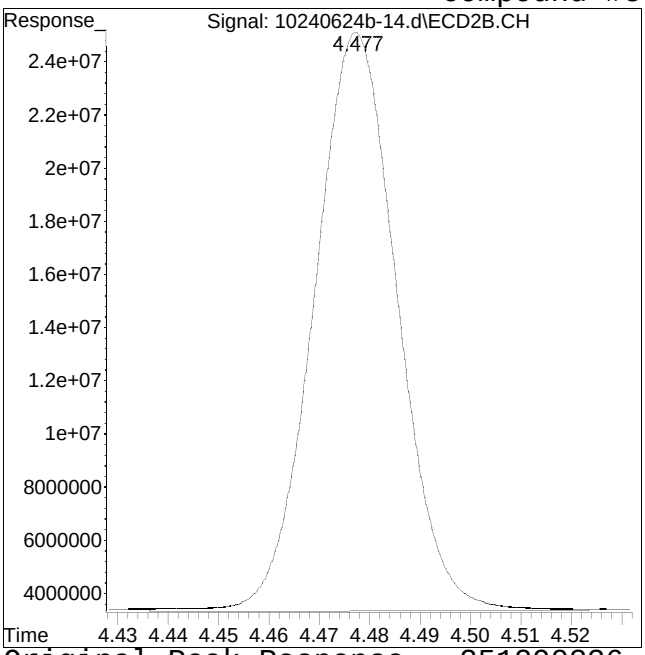


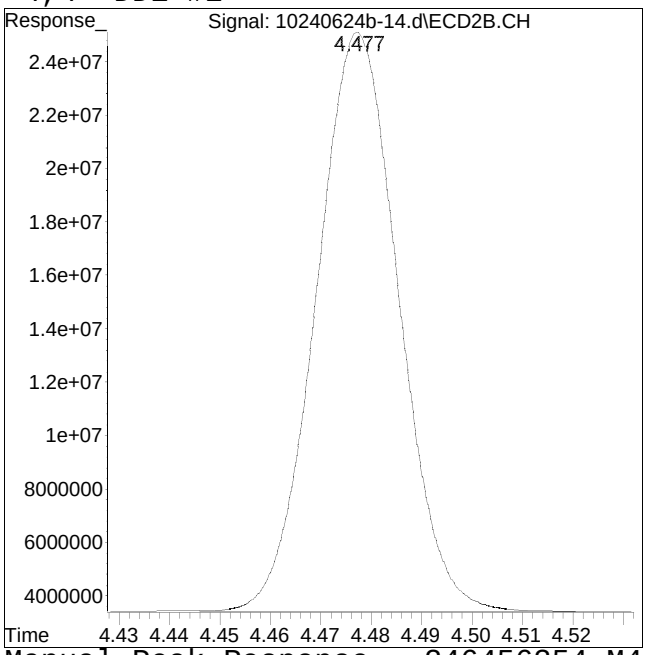
Original Peak Response = 976656740 Manual Peak Response = 952233554 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240624QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240624b-14.d Operator : PEST10:emr
Date Inj'd : 6/24/2024 18:19 Instrument : Pest 10
Sample : WG1938134-2,42,, Quant Date : 6/25/2024 8:57 am

Compound #53: 4,4'-DDE #2



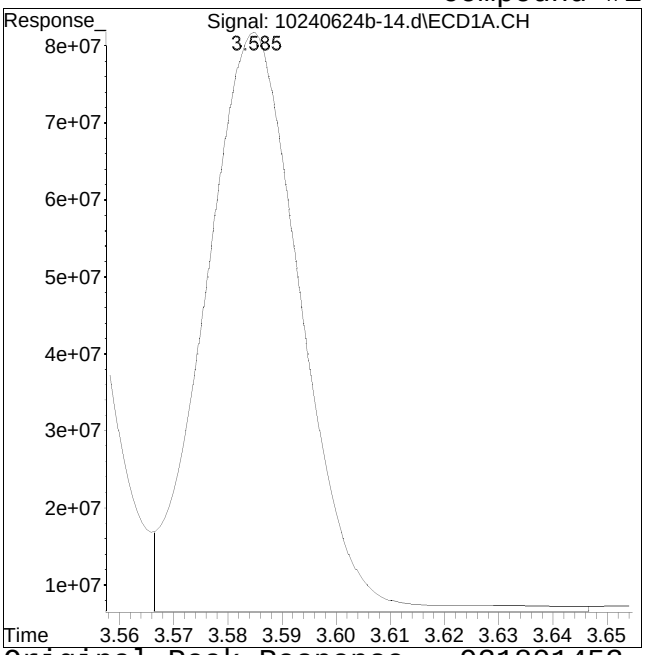


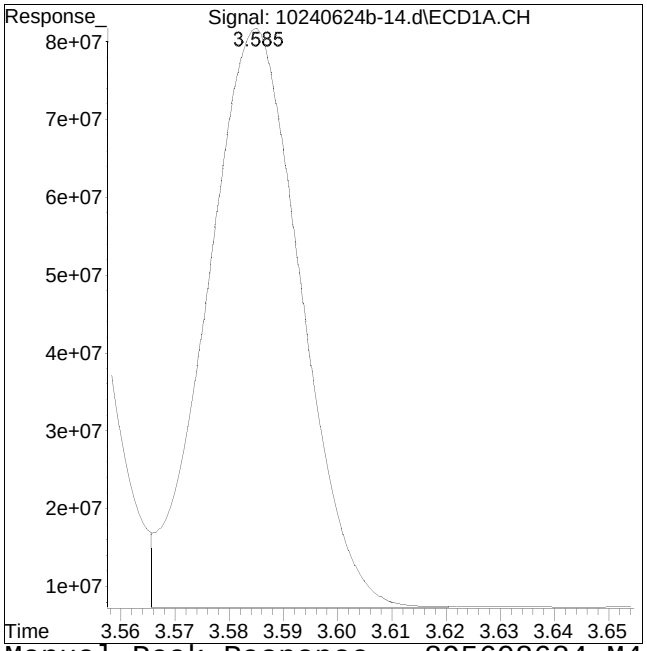
Original Peak Response = 251290336 Manual Peak Response = 246456354 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240624QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240624b-14.d Operator : PEST10:emr
Date Inj'd : 6/24/2024 18:19 Instrument : Pest 10
Sample : WG1938134-2,42,, Quant Date : 6/25/2024 8:57 am

Compound #16: Endosulfan I



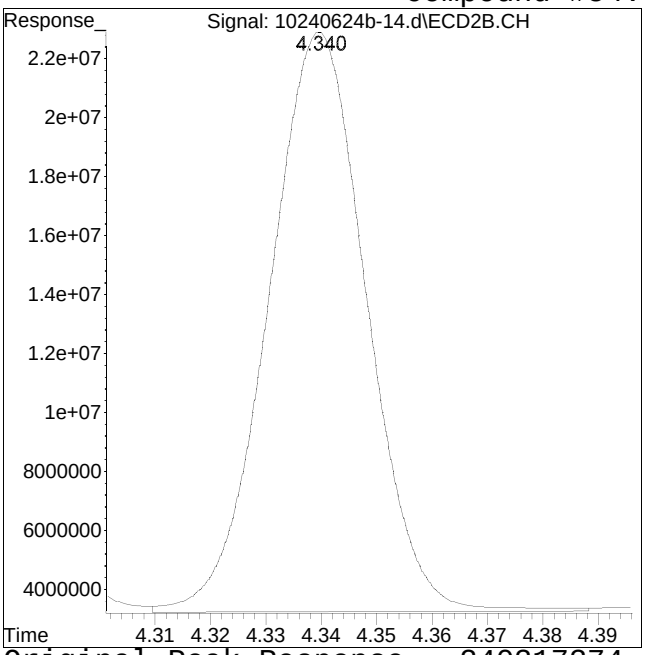


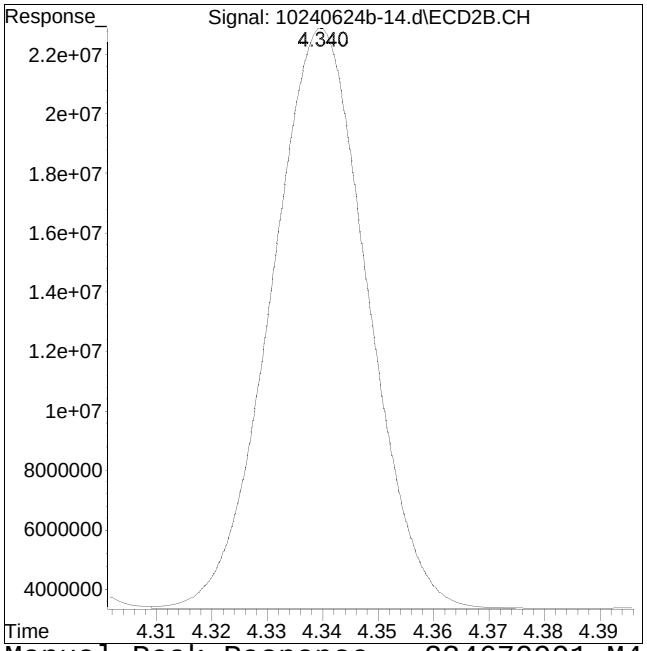
Original Peak Response = 931801453 Manual Peak Response = 895608684 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240624QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240624b-14.d Operator : PEST10:emr
Date Inj'd : 6/24/2024 18:19 Instrument : Pest 10
Sample : WG1938134-2,42,, Quant Date : 6/25/2024 8:57 am

Compound #54: Endosulfan I #2



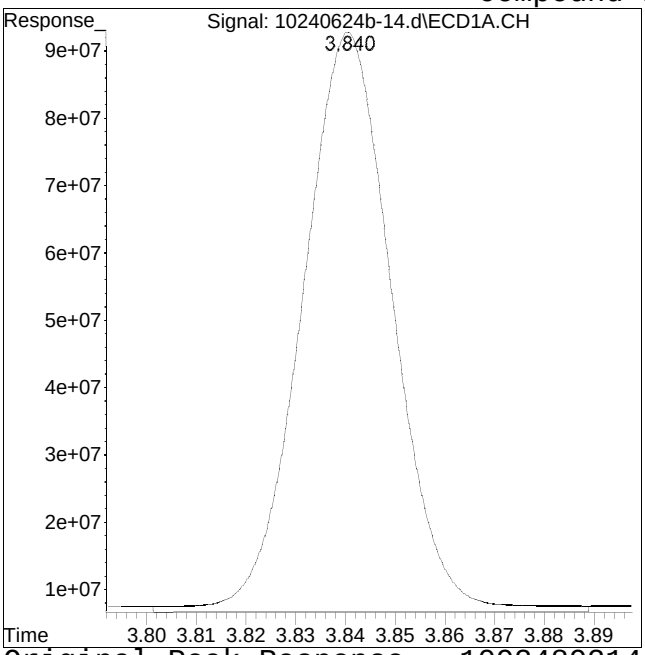


Original Peak Response = 240317374 Manual Peak Response = 234670991 M4
M4 = Poor automated baseline construction.

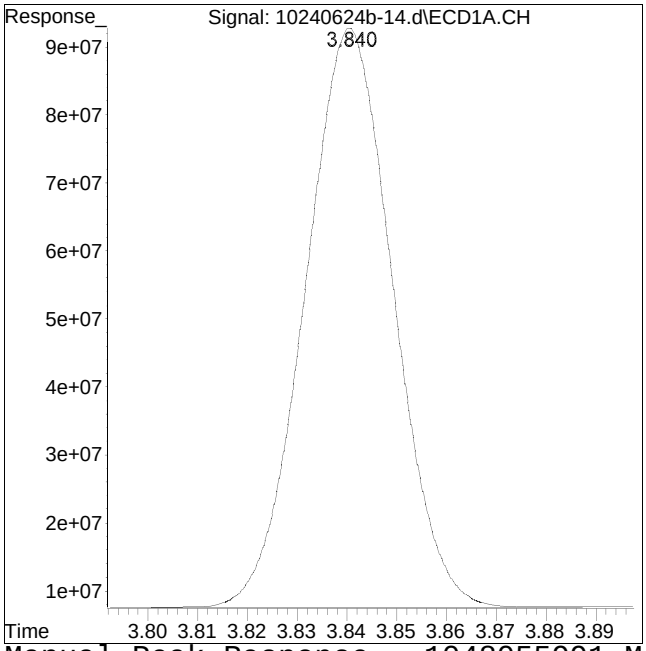
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240624QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240624b-14.d Operator : PEST10:emr
Date Inj'd : 6/24/2024 18:19 Instrument : Pest 10
Sample : WG1938134-2,42,, Quant Date : 6/25/2024 8:57 am

Compound #17: Dieldrin



Original Peak Response = 1092489214

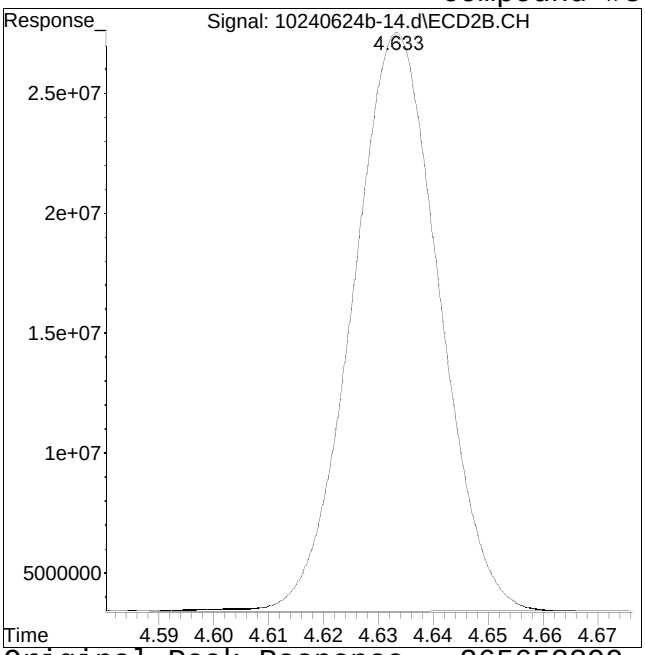


Manual Peak Response = 1048055991 M4
M4 = Poor automated baseline construction.

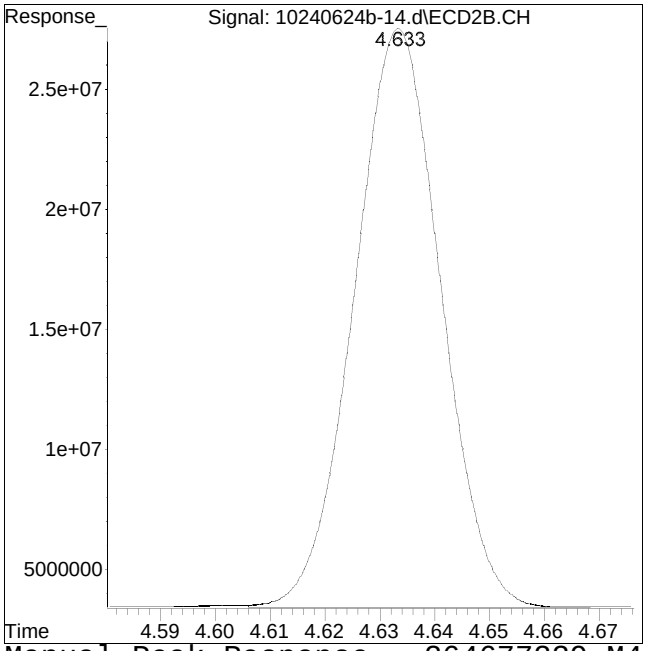
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240624QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240624b-14.d Operator : PEST10:emr
Date Inj'd : 6/24/2024 18:19 Instrument : Pest 10
Sample : WG1938134-2,42,, Quant Date : 6/25/2024 8:57 am

Compound #55: Dieldrin #2



Original Peak Response = 265652399



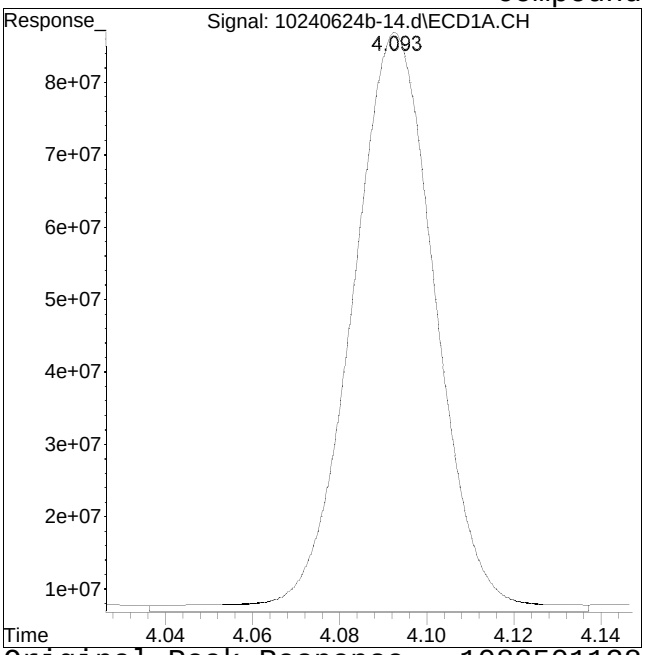
Manual Peak Response = 264677239 M4

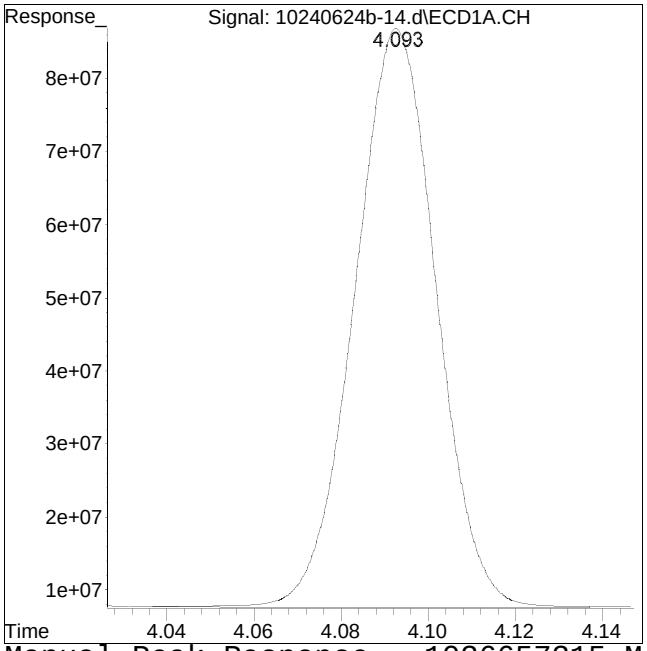
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240624QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240624b-14.d Operator : PEST10:emr
Date Inj'd : 6/24/2024 18:19 Instrument : Pest 10
Sample : WG1938134-2,42,, Quant Date : 6/25/2024 8:57 am

Compound #18: Endrin



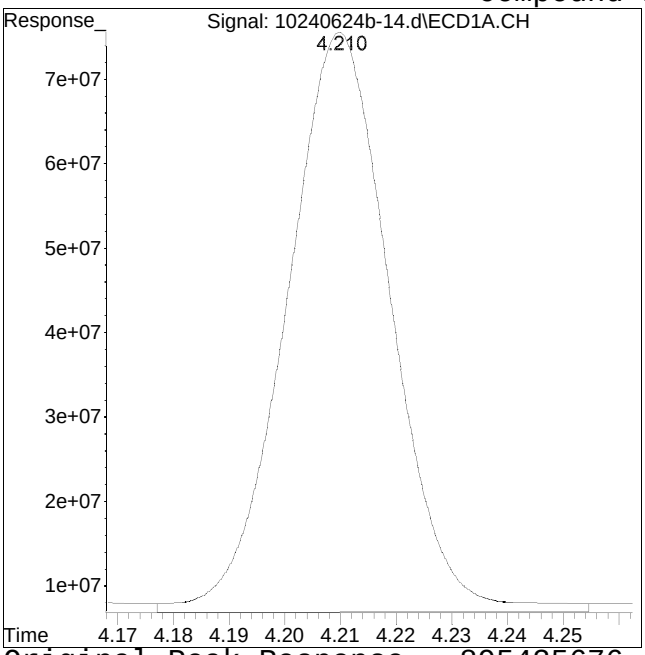


Original Peak Response = 1082501128 Manual Peak Response = 1036657315 M4
M4 = Poor automated baseline construction.

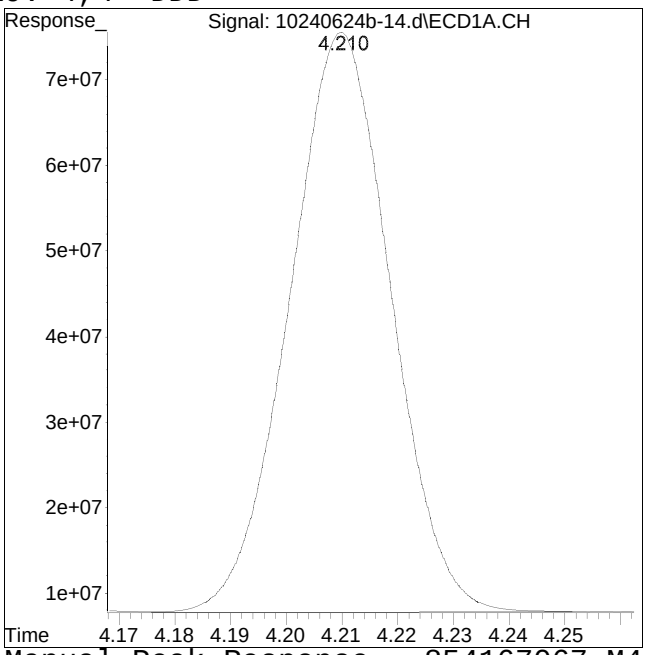
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240624QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240624b-14.d Operator : PEST10:emr
Date Inj'd : 6/24/2024 18:19 Instrument : Pest 10
Sample : WG1938134-2,42,, Quant Date : 6/25/2024 8:57 am

Compound #19: 4,4'-DDD



Original Peak Response = 895435676



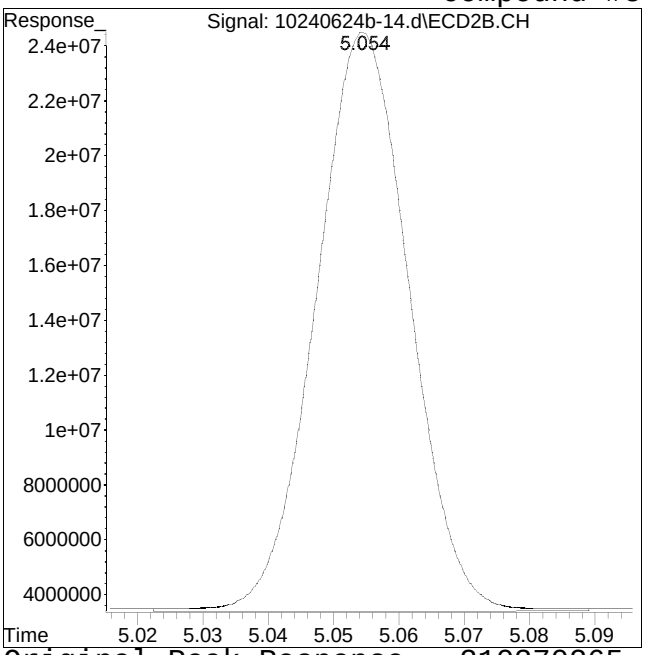
Manual Peak Response = 854167067 M4

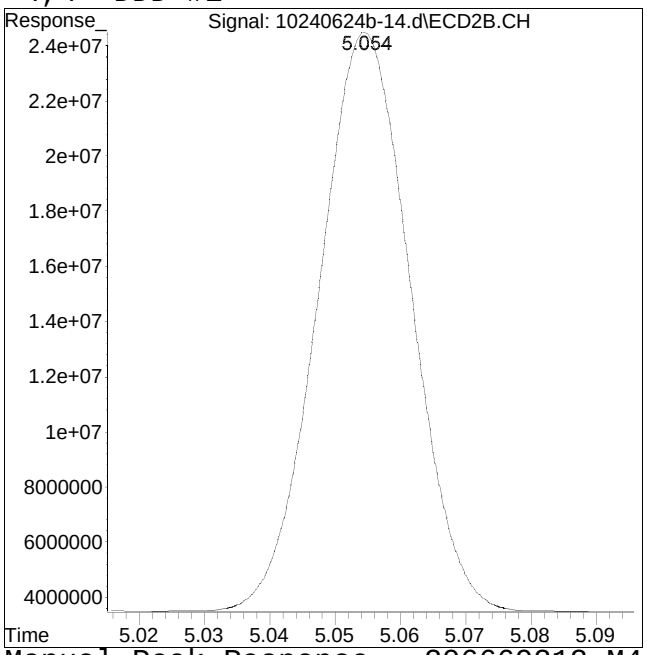
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240624QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240624b-14.d Operator : PEST10:emr
Date Inj'd : 6/24/2024 18:19 Instrument : Pest 10
Sample : WG1938134-2,42,, Quant Date : 6/25/2024 8:57 am

Compound #57: 4,4'-DDD #2



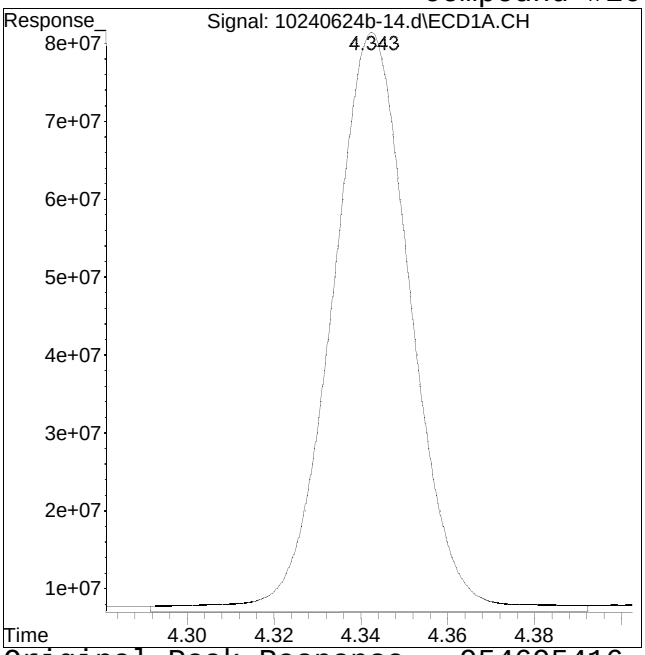


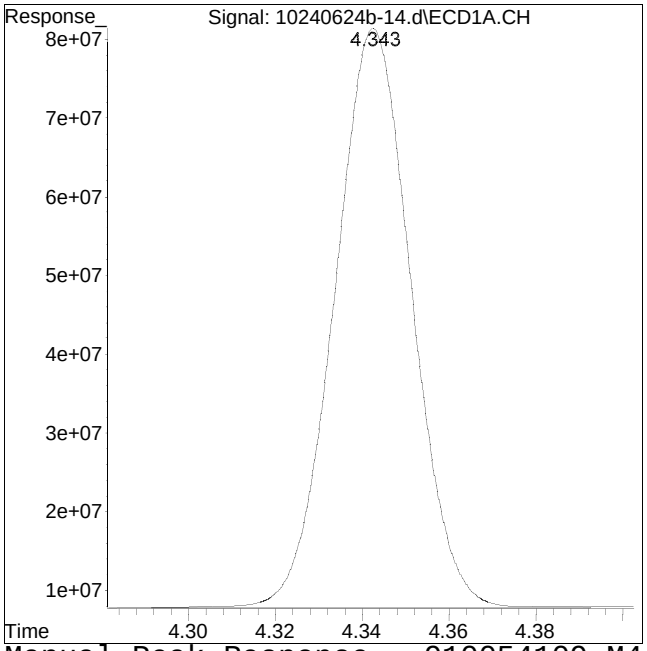
Original Peak Response = 210370265 Manual Peak Response = 206669212 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240624QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240624b-14.d Operator : PEST10:emr
Date Inj'd : 6/24/2024 18:19 Instrument : Pest 10
Sample : WG1938134-2,42,, Quant Date : 6/25/2024 8:57 am

Compound #20: Endosulfan II



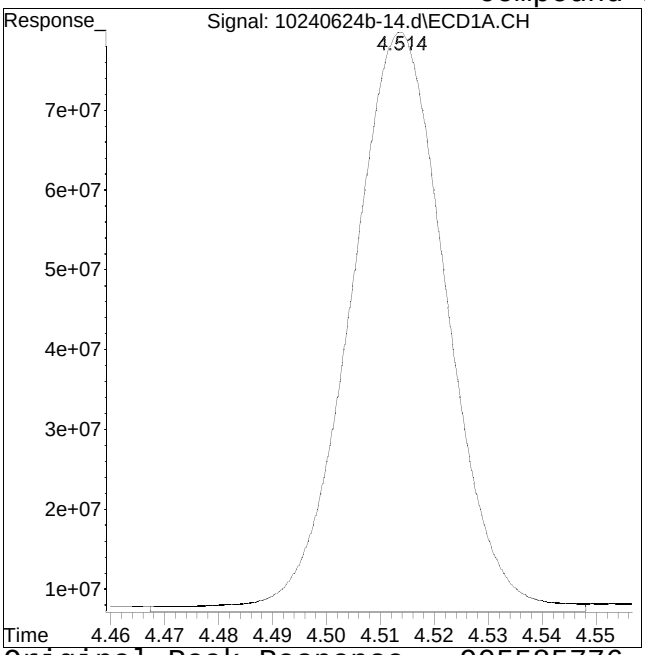


Original Peak Response = 954695416 Manual Peak Response = 910054109 M4
M4 = Poor automated baseline construction.

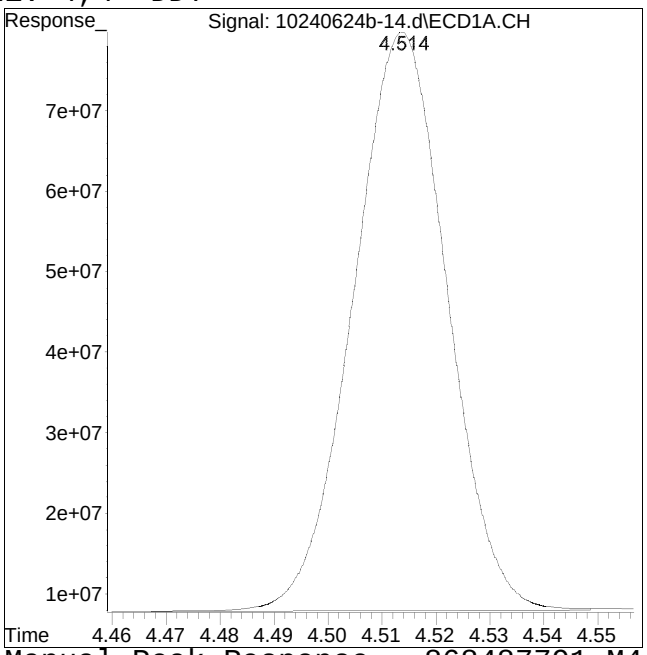
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240624QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240624b-14.d Operator : PEST10:emr
Date Inj'd : 6/24/2024 18:19 Instrument : Pest 10
Sample : WG1938134-2,42,, Quant Date : 6/25/2024 8:57 am

Compound #21: 4,4'-DDT



Original Peak Response = 905585776



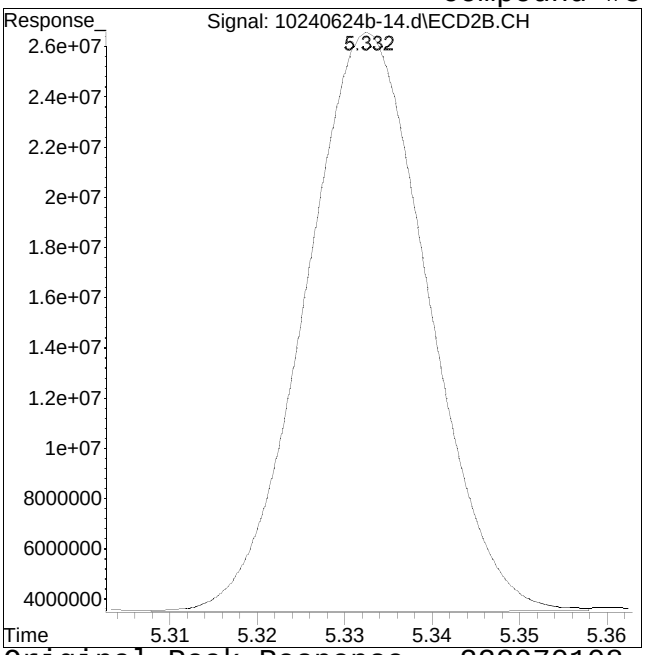
Manual Peak Response = 868487791 M4

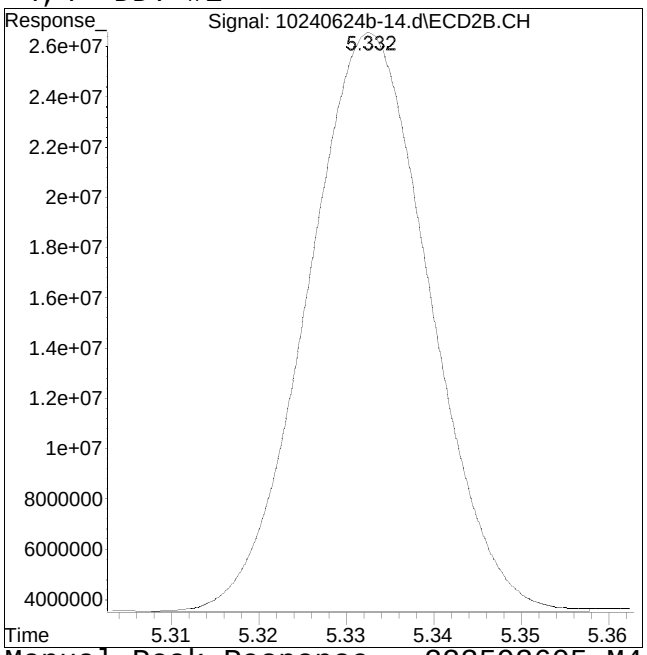
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240624QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240624b-14.d Operator : PEST10:emr
Date Inj'd : 6/24/2024 18:19 Instrument : Pest 10
Sample : WG1938134-2,42,, Quant Date : 6/25/2024 8:57 am

Compound #59: 4,4'-DDT #2



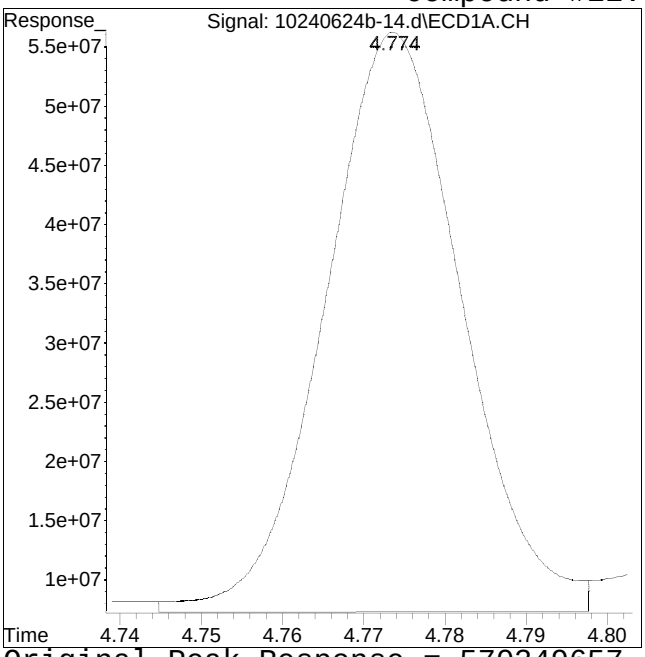


Original Peak Response = 223970108 Manual Peak Response = 223593605 M4
M4 = Poor automated baseline construction.

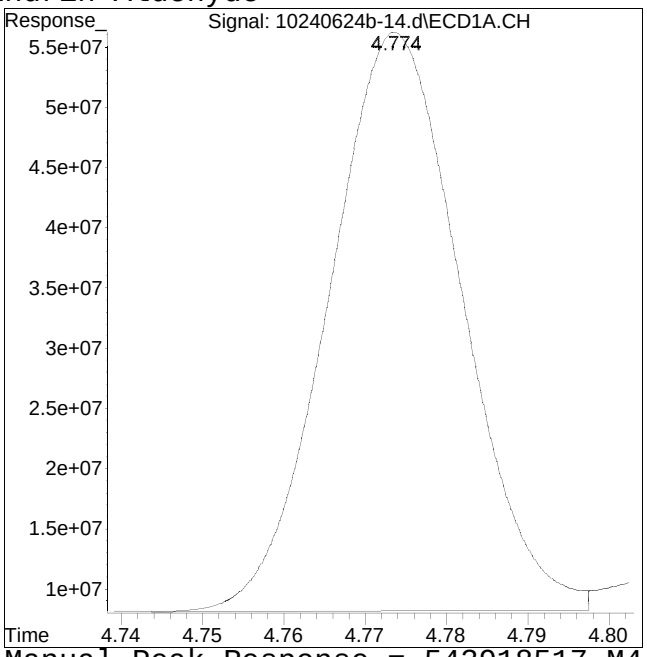
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240624QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240624b-14.d Operator : PEST10:emr
Date Inj'd : 6/24/2024 18:19 Instrument : Pest 10
Sample : WG1938134-2,42,, Quant Date : 6/25/2024 8:57 am

Compound #22: Endrin Aldehyde



Original Peak Response = 570349657



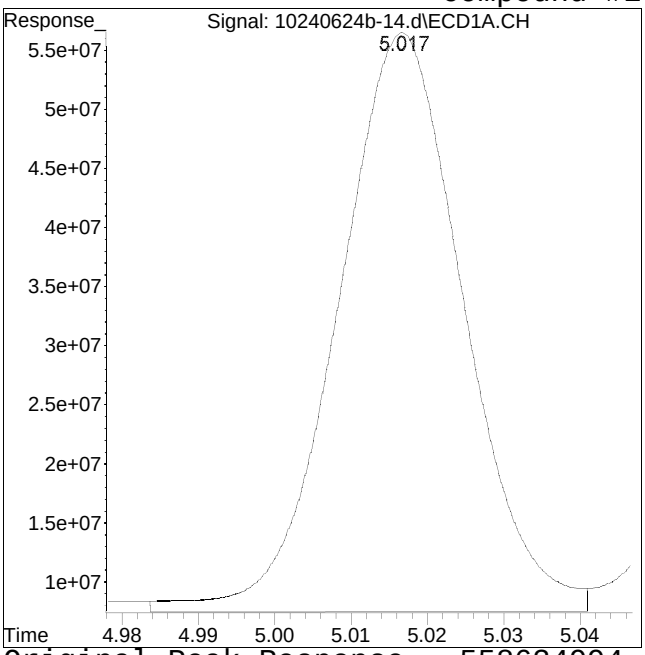
Manual Peak Response = 543918517 M4

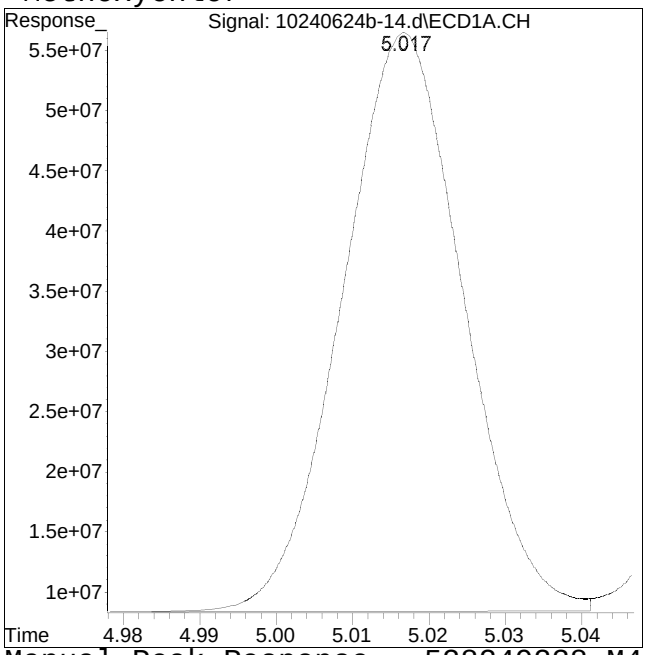
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240624QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240624b-14.d Operator : PEST10:emr
Date Inj'd : 6/24/2024 18:19 Instrument : Pest 10
Sample : WG1938134-2,42,, Quant Date : 6/25/2024 8:57 am

Compound #23: Methoxychlor



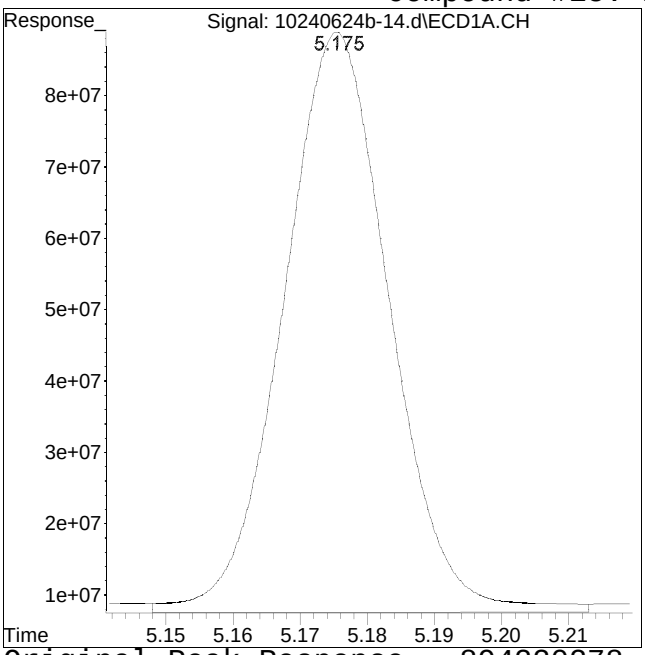


Original Peak Response = 558634994 Manual Peak Response = 528249238 M4
M4 = Poor automated baseline construction.

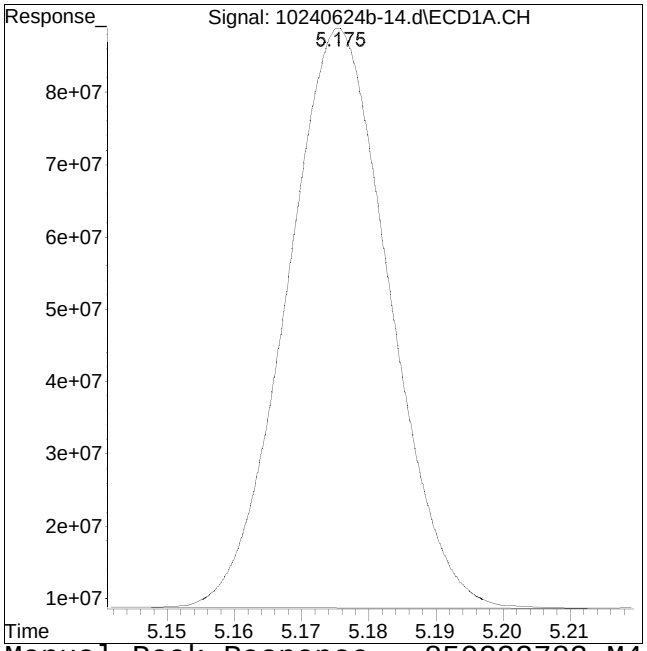
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240624QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240624b-14.d Operator : PEST10:emr
Date Inj'd : 6/24/2024 18:19 Instrument : Pest 10
Sample : WG1938134-2,42,, Quant Date : 6/25/2024 8:57 am

Compound #25: Endosulfan Sulfate



Original Peak Response = 894220278



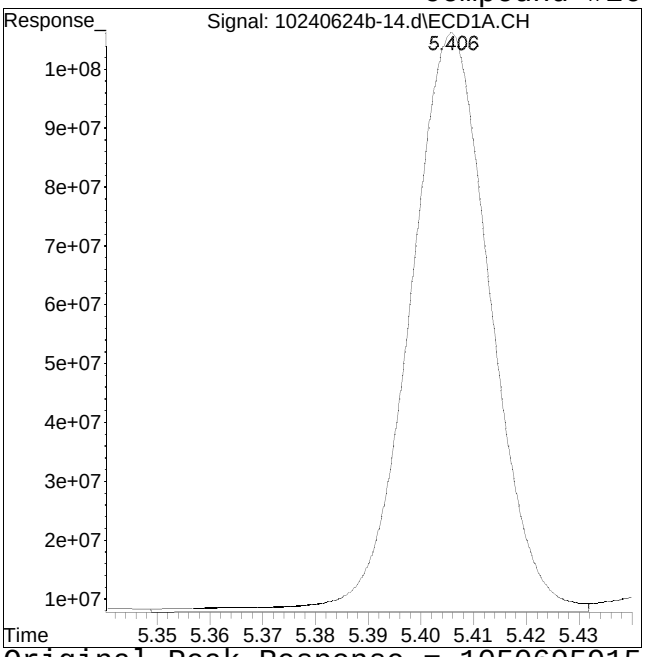
Manual Peak Response = 850233783 M4

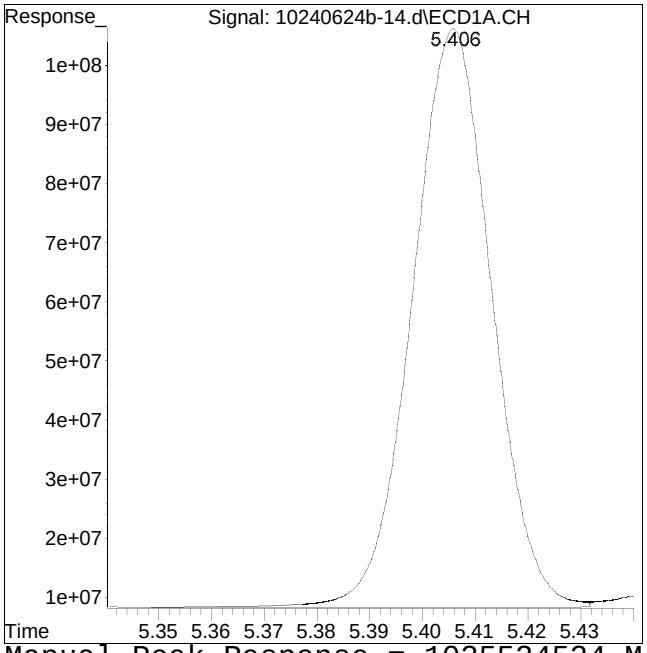
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240624QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240624b-14.d Operator : PEST10:emr
Date Inj'd : 6/24/2024 18:19 Instrument : Pest 10
Sample : WG1938134-2,42,, Quant Date : 6/25/2024 8:57 am

Compound #26: Endrin Ketone



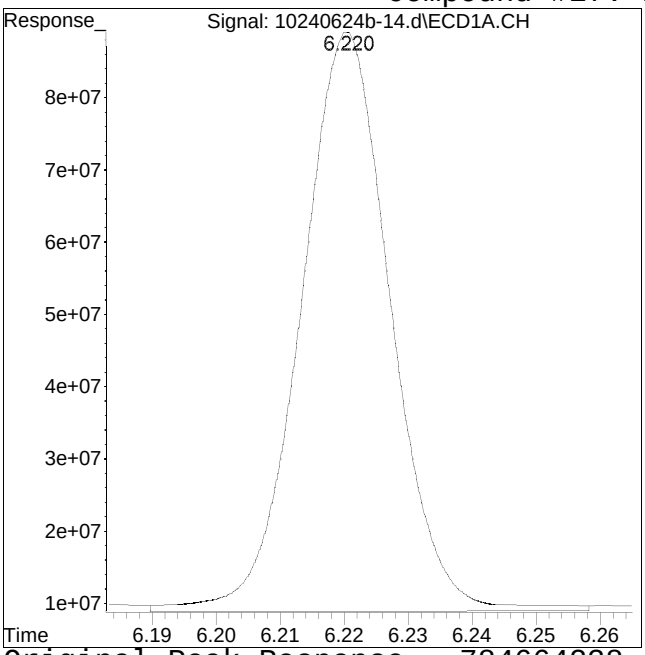


Original Peak Response = 1050695915 Manual Peak Response = 1025524524 M4
M4 = Poor automated baseline construction.

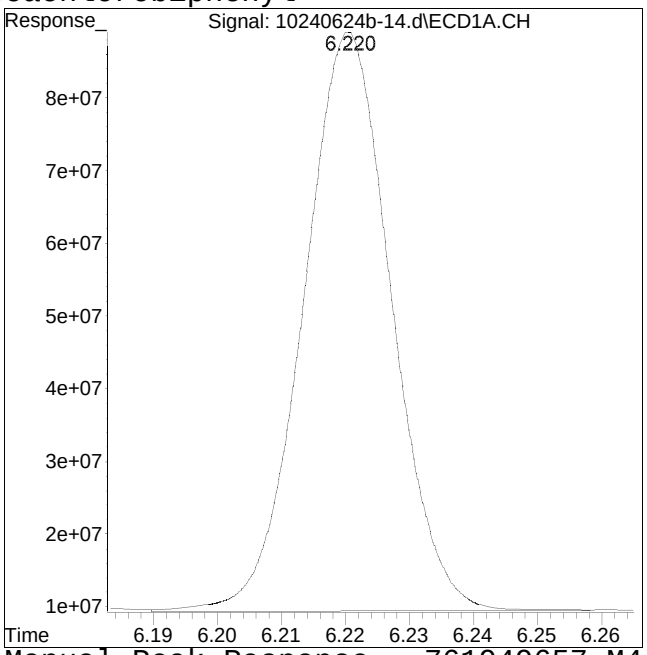
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240624QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240624b-14.d Operator : PEST10:emr
Date Inj'd : 6/24/2024 18:19 Instrument : Pest 10
Sample : WG1938134-2,42,, Quant Date : 6/25/2024 8:57 am

Compound #27: Decachlorobiphenyl



Original Peak Response = 784664238



Manual Peak Response = 761949657 M4

M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest10\2024\240626B\
Data File : 10240626b-19.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 26 Jun 2024 20:29
Operator : PEST10:peg
Sample : WG1939408-2,42,,
Misc : wg1939871,WG1939408,ical21109
ALS Vial : 19 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 27 06:55:39 2024
Quant Method : I:\PEST\Pest10\2024\240626B\pest10_2024_05_02_ugL_ical21109.m
Quant Title : pest
QLast Update : Thu Jun 27 06:53:33 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PEST\Pest10\2024\240626B\10240626b-03.d
Sub List : LCS_MS - spk only

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Internal Standards							
1) i	1-br-2-nb_Pe	1.249	1.364	585.0E6	162.3E6	25.000M4	25.000M4
	Standard Area 1 : #1 = 558962350				Recovery = 104.66%		
	Standard Area 1 : #2 = 147960276				Recovery = 109.70%		
System Monitoring Compounds							
2) s	2,4,5,6-Tetr	1.585	1.843	961.3E6	263.2E6	37.853M4	43.124
	Spiked Amount 50.000	Range 30 - 150		Recovery = 75.71%		86.25%	
27) s	Decachlorobi	6.213	6.928	842.9E6	176.2E6	44.477M4	37.332M4
	Spiked Amount 50.000	Range 30 - 150		Recovery = 88.95%		74.66%	
Target Compounds							
4) t	alpha-BHC	1.889	2.260	1486.9E6	381.8E6	42.072M3	43.941M4
5) t	gamma-BHC (l	2.085	2.546	1353.8E6	353.9E6	40.417M4	43.356M4
6) t	beta-BHC	2.140	2.611	579.8E6	157.4E6	43.295M4	43.978M4
7) t	delta-BHC	2.264	2.878	1314.7E6	336.8E6	39.781M4	41.092M4
8) t	Heptachlor	2.422	2.943	1372.5E6	339.5E6	43.144M4	41.888M3
9) t	Aldrin	2.657	3.262	1233.9E6	312.3E6	41.127M4	42.299M4
12) t	Heptachlor E	3.190	3.879	1191.6E6	300.2E6	41.693M4	40.679M4
13) t	gamma-Chlord	3.311	4.099	1208.2E6	311.6E6	46.214M4	47.467M3
14) t	alpha-Chlord	3.443	4.271	1106.2E6	304.0E6	37.247M4	41.174M4
15) t	4,4'-DDE	3.540	4.471	1189.2E6	296.3E6	42.283M4	43.402M4
16) t	Endosulfan I	3.577	4.333	1113.6E6	286.7E6	40.924M4	41.746
17) t	Dieldrin	3.832	4.628	1288.8E6	317.4E6	45.892M4	46.184
18) t	Endrin	4.084	4.926	1242.7E6	300.1E6	43.080M4	42.559M4
19) t	4,4'-DDD	4.201	5.049	1060.4E6	239.1E6	46.379M4	43.539M4
20) t	Endosulfan I	4.334	5.125	1118.9E6	273.4E6	44.944M4	44.270M4
21) t	4,4'-DDT	4.505	5.328	1123.3E6	264.5E6	44.394M4	42.447M4
22) t	Endrin Aldeh	4.766	5.424	824.7E6	204.9E6	43.435M4	40.960

Data Path : I:\PEST\Pest10\2024\240626B\
Data File : 10240626b-19.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 26 Jun 2024 20:29
Operator : PEST10:peg
Sample : WG1939408-2,42,,
Misc : wg1939871,WG1939408,ical21109
ALS Vial : 19 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 27 06:55:39 2024
Quant Method : I:\PEST\Pest10\2024\240626B\pest10_2024_05_02_ugL_ical21109.m
Quant Title : pest
QLast Update : Thu Jun 27 06:53:33 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PEST\Pest10\2024\240626B\10240626b-03.d
Sub List : LCS_MS - spk only

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
23) t Methoxychlor	5.009	5.894	640.4E6	146.3E6	54.809M4	46.744M4
25) t Endosulfan S	5.168	5.652	1068.7E6	256.1E6	43.286M4	41.600M4
26) t Endrin Keton	5.398	6.066	1242.4E6	291.0E6	45.880M4	43.379M4
Sum chlordane-1			0	0	N.D.	N.D.
Average chlordane-1					0.000	0.000
Sum toxaphene-1			0	0	N.D.	N.D.
Average toxaphene-1					0.000	0.000
SemiQuant Compounds - Not Calibrated on this Instrument						
Sum toxaphene-1			0	0	N.D.	N.D.
Average toxaphene-1					0.000	0.000

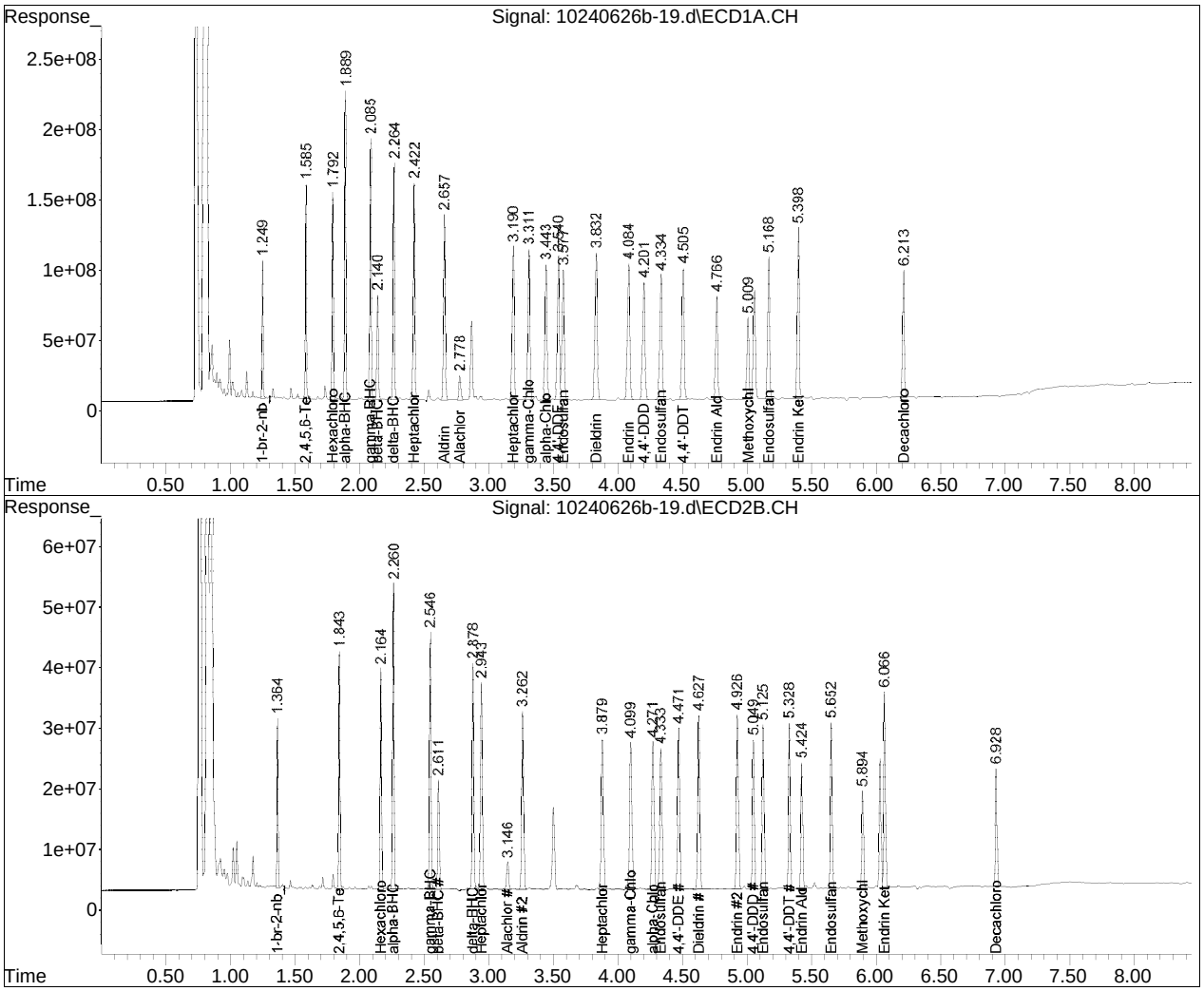
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : LCS_MS - spk only0\2024\240626B\10240626b-03.d•

Data Path : I:\PEST\Pest10\2024\240626B\
Data File : 10240626b-19.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 26 Jun 2024 20:29
Operator : PEST10:peg
Sample : WG1939408-2,42,,
Misc : wg1939871,WG1939408,ical21109
ALS Vial : 19 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 27 06:55:39 2024
Quant Method : I:\PEST\Pest10\2024\240626B\pest10_2024_05_02_ugL_ical21109.m
Quant Title : pest
QLast Update : Thu Jun 27 06:53:33 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

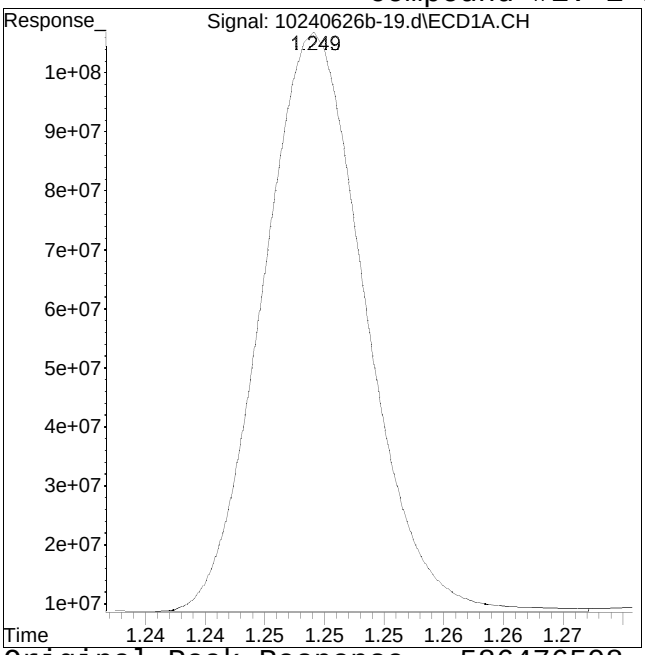
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

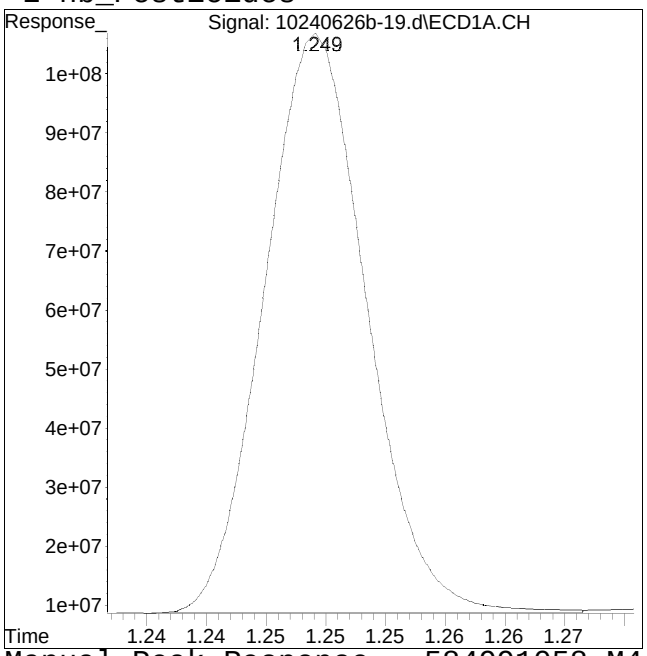


Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240626QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240626b-19.d Operator : PEST10:peg
Date Inj'd : 6/26/2024 20:29 Instrument : Pest 10
Sample : WG1939408-2,42,, Quant Date : 6/27/2024 6:55 am

Compound #1: 1-br-2-nb_Pesticides



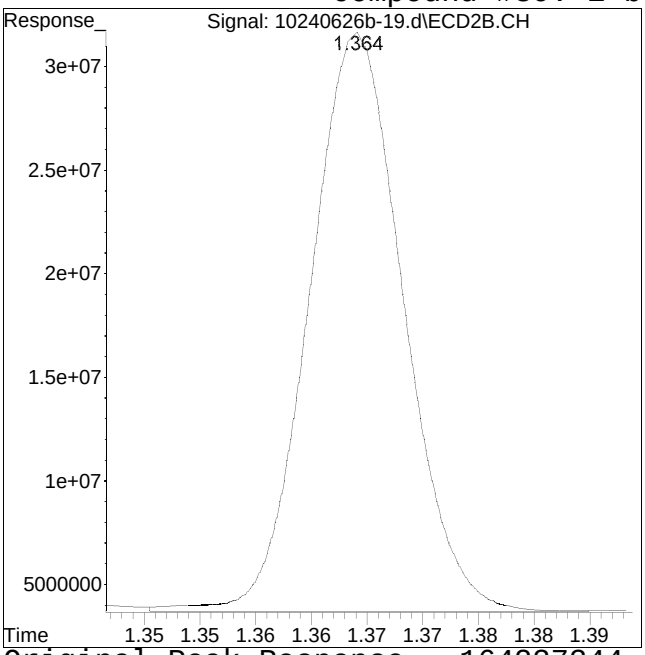


Original Peak Response = 586476508 Manual Peak Response = 584991058 M4
M4 = Poor automated baseline construction.

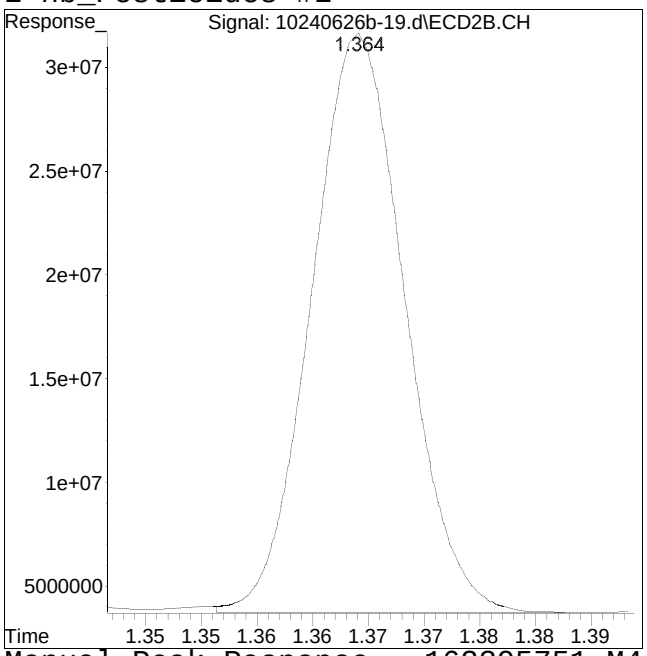
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240626QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240626b-19.d Operator : PEST10:peg
Date Inj'd : 6/26/2024 20:29 Instrument : Pest 10
Sample : WG1939408-2,42,, Quant Date : 6/27/2024 6:55 am

Compound #39: 1-br-2-nb_Pesticides #2



Original Peak Response = 164237344



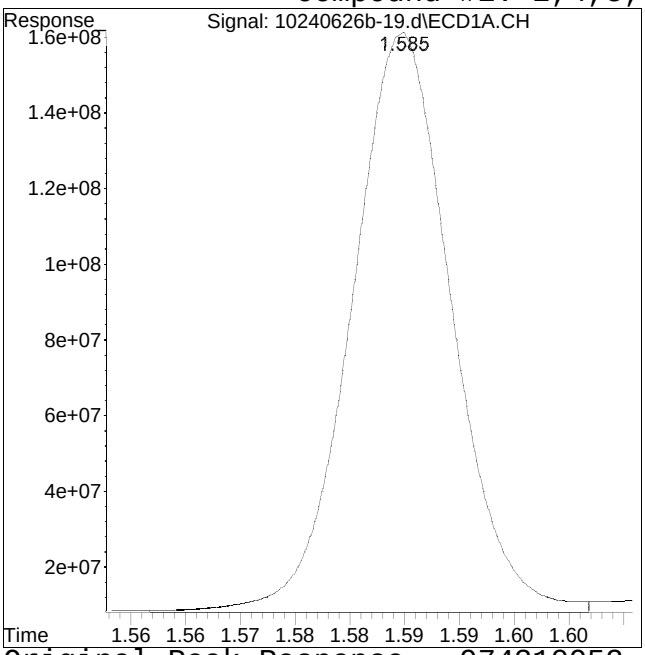
Manual Peak Response = 162305751 M4

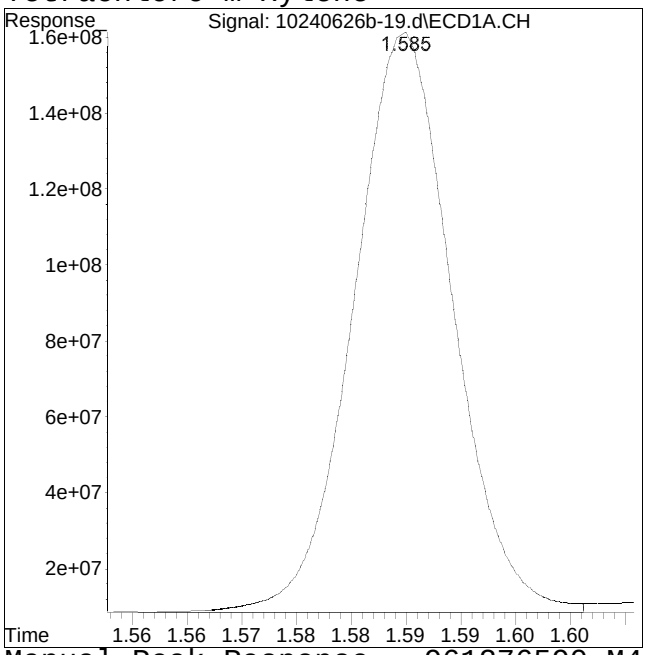
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240626QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240626b-19.d Operator : PEST10:peg
Date Inj'd : 6/26/2024 20:29 Instrument : Pest 10
Sample : WG1939408-2,42,, Quant Date : 6/27/2024 6:55 am

Compound #2: 2,4,5,6-Tetrachloro-m-xylene



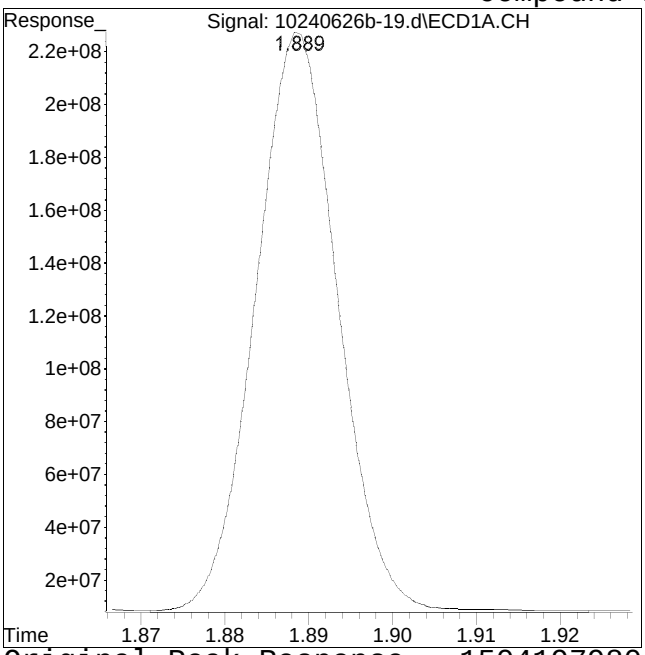


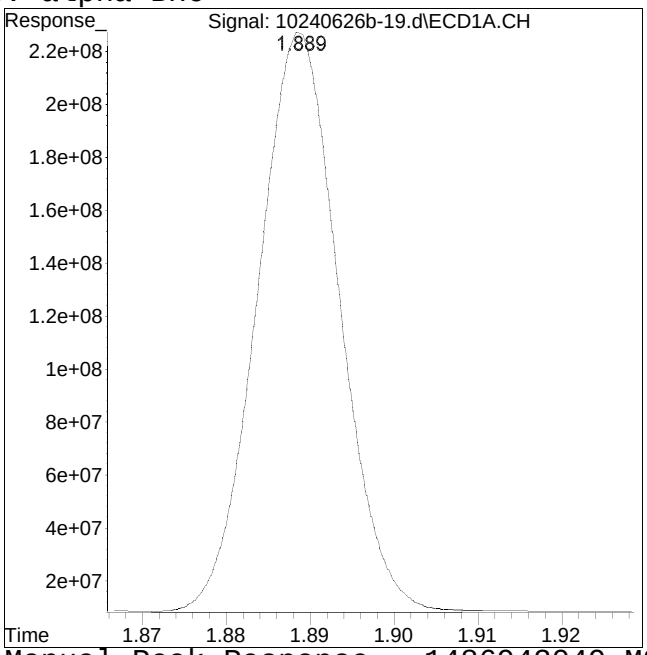
Original Peak Response = 974310952 Manual Peak Response = 961276590 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240626QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240626b-19.d Operator : PEST10:peg
Date Inj'd : 6/26/2024 20:29 Instrument : Pest 10
Sample : WG1939408-2,42,, Quant Date : 6/27/2024 6:55 am

Compound #4: alpha-BHC



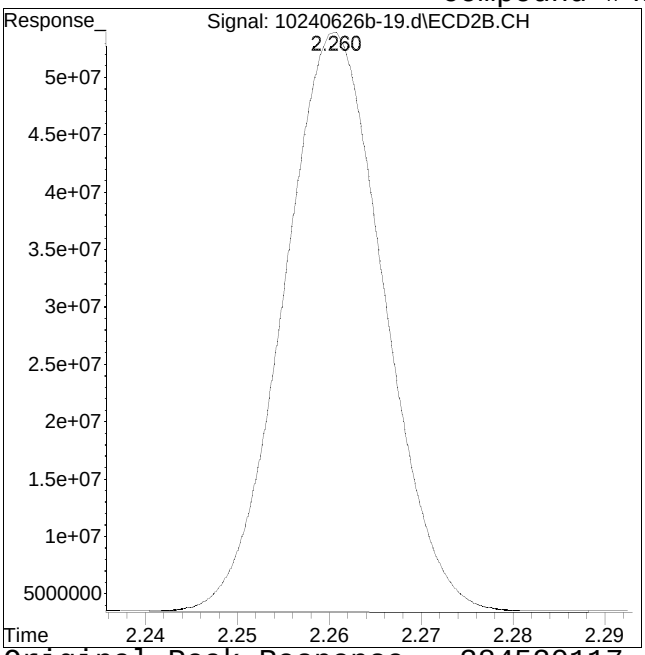


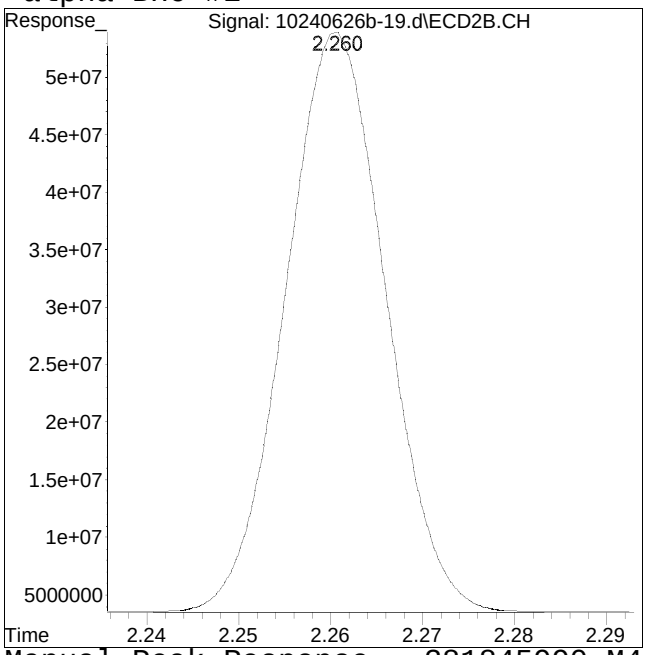
Original Peak Response = 1504197980 Manual Peak Response = 1486943049 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240626QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240626b-19.d Operator : PEST10:peg
Date Inj'd : 6/26/2024 20:29 Instrument : Pest 10
Sample : WG1939408-2,42,, Quant Date : 6/27/2024 6:55 am

Compound #42: alpha-BHC #2



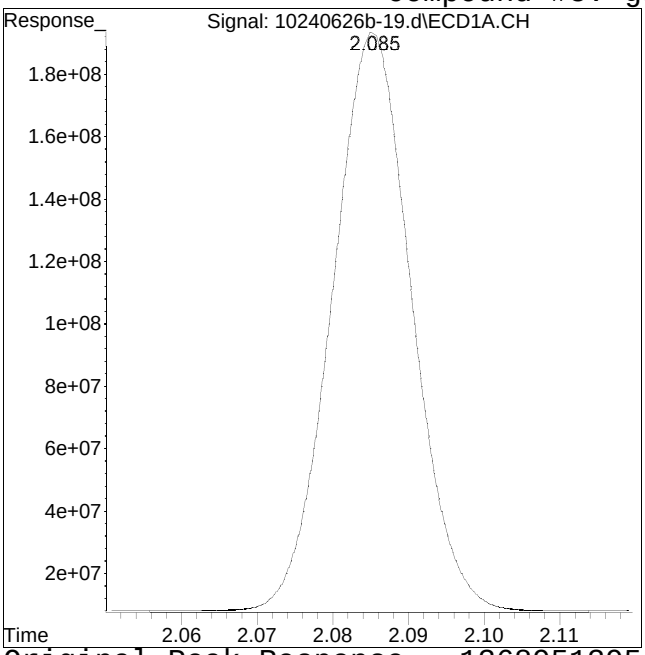


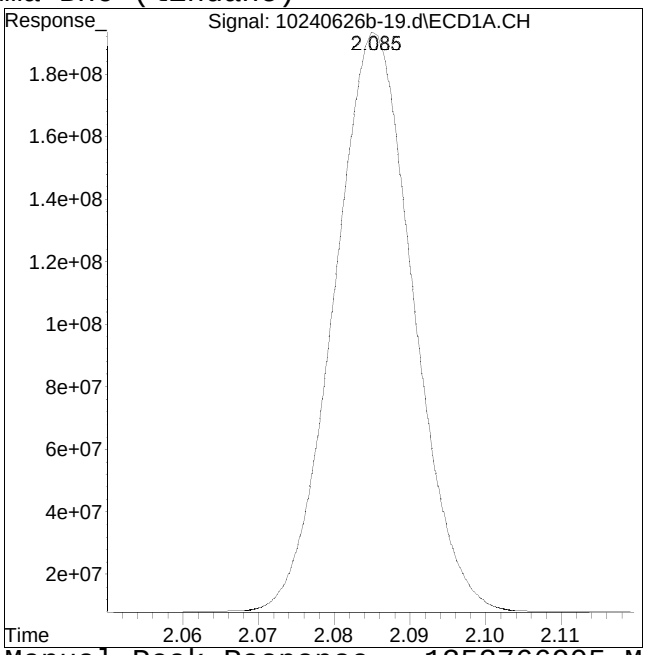
Original Peak Response = 384520117 Manual Peak Response = 381845990 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240626QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240626b-19.d Operator : PEST10:peg
Date Inj'd : 6/26/2024 20:29 Instrument : Pest 10
Sample : WG1939408-2,42,, Quant Date : 6/27/2024 6:55 am

Compound #5: gamma-BHC (lindane)



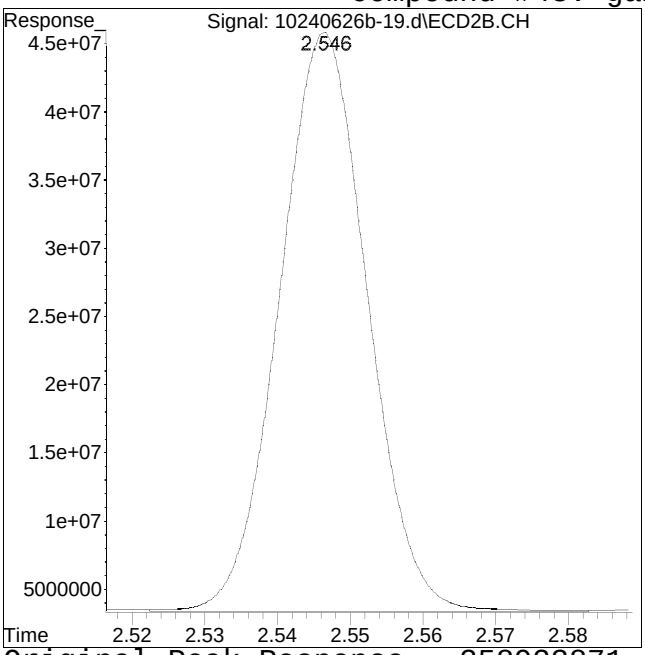


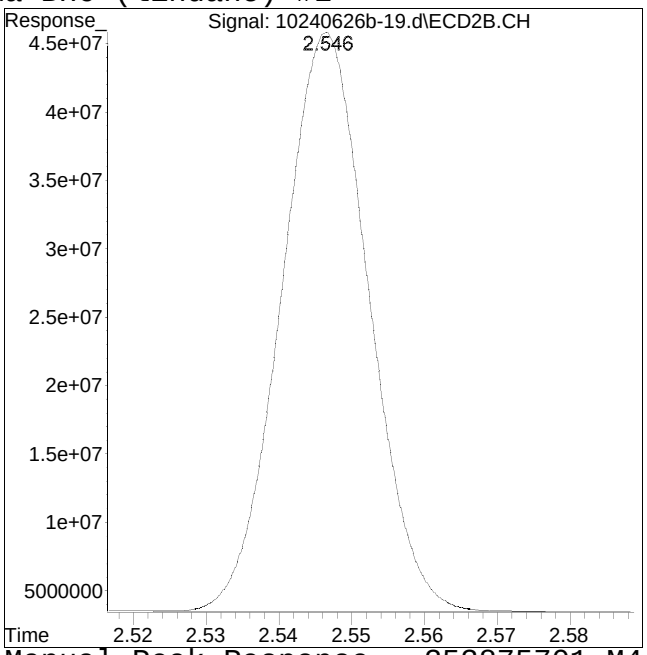
Original Peak Response = 1368951395 Manual Peak Response = 1353766905 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240626QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240626b-19.d Operator : PEST10:peg
Date Inj'd : 6/26/2024 20:29 Instrument : Pest 10
Sample : WG1939408-2,42,, Quant Date : 6/27/2024 6:55 am

Compound #43: gamma-BHC (lindane) #2



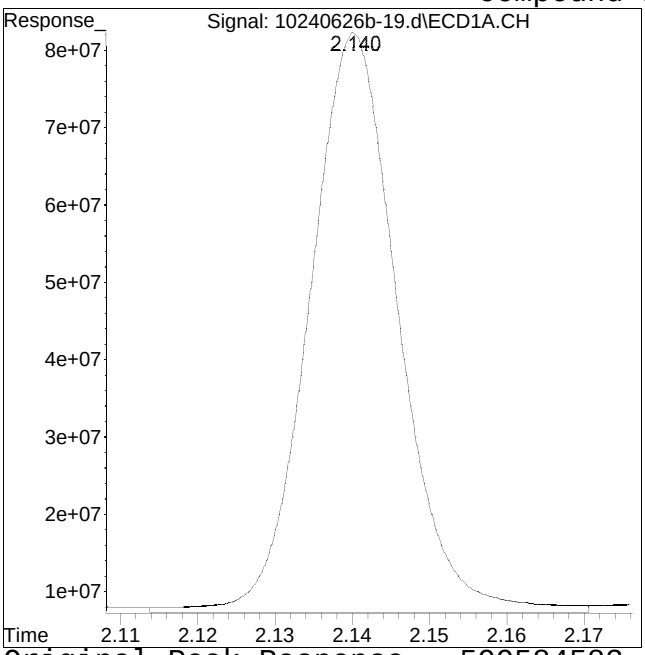


Original Peak Response = 358923871 Manual Peak Response = 353875701 M4
M4 = Poor automated baseline construction.

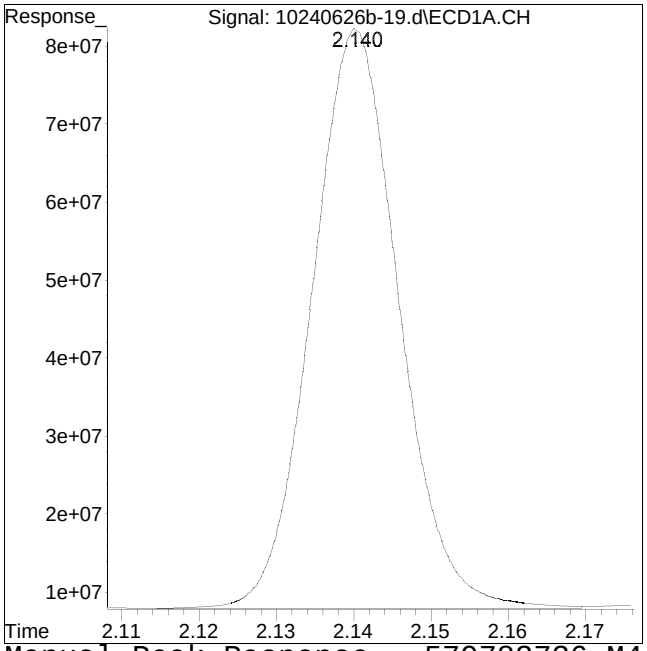
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240626QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240626b-19.d Operator : PEST10:peg
Date Inj'd : 6/26/2024 20:29 Instrument : Pest 10
Sample : WG1939408-2,42,, Quant Date : 6/27/2024 6:55 am

Compound #6: beta-BHC



Original Peak Response = 599584583



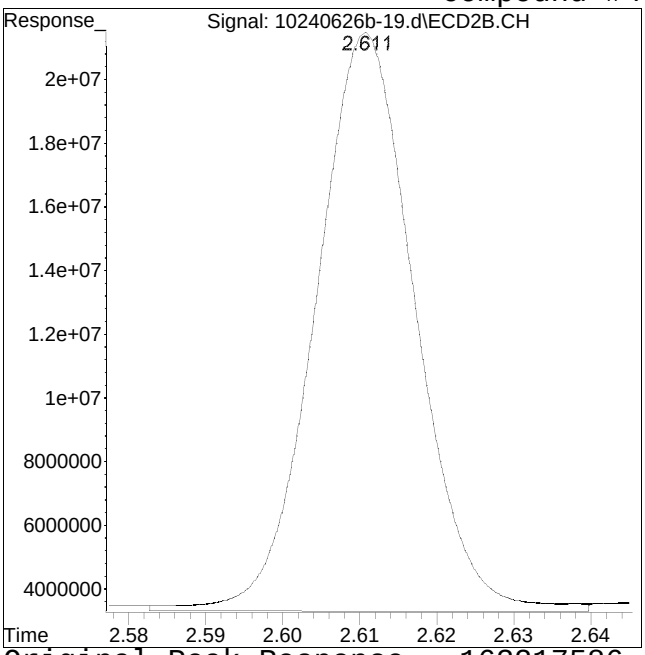
Manual Peak Response = 579783736 M4

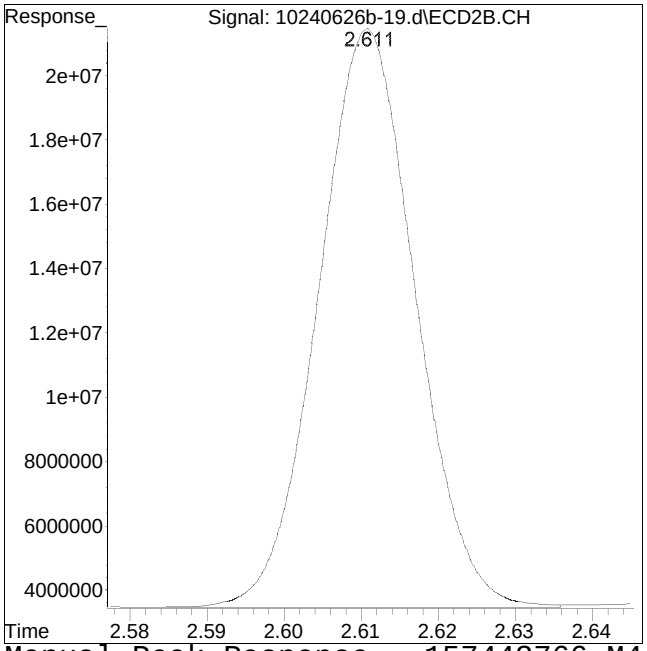
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240626QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240626b-19.d Operator : PEST10:peg
Date Inj'd : 6/26/2024 20:29 Instrument : Pest 10
Sample : WG1939408-2,42,, Quant Date : 6/27/2024 6:55 am

Compound #44: beta-BHC #2



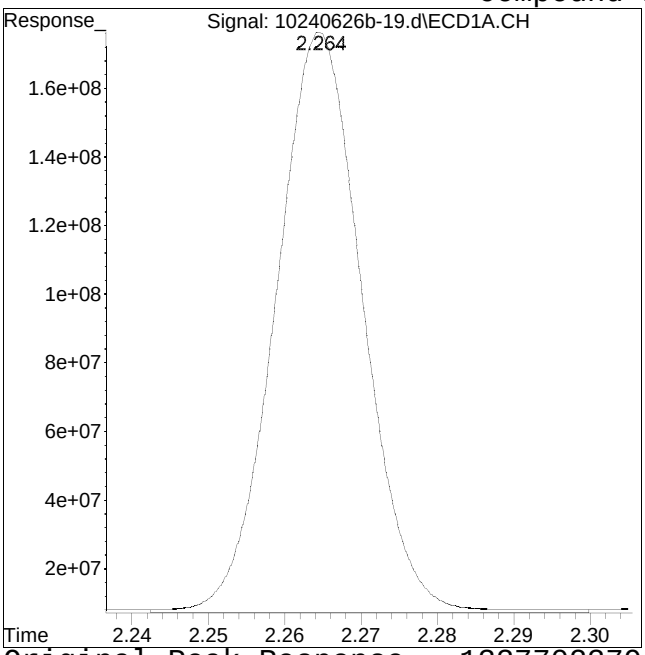


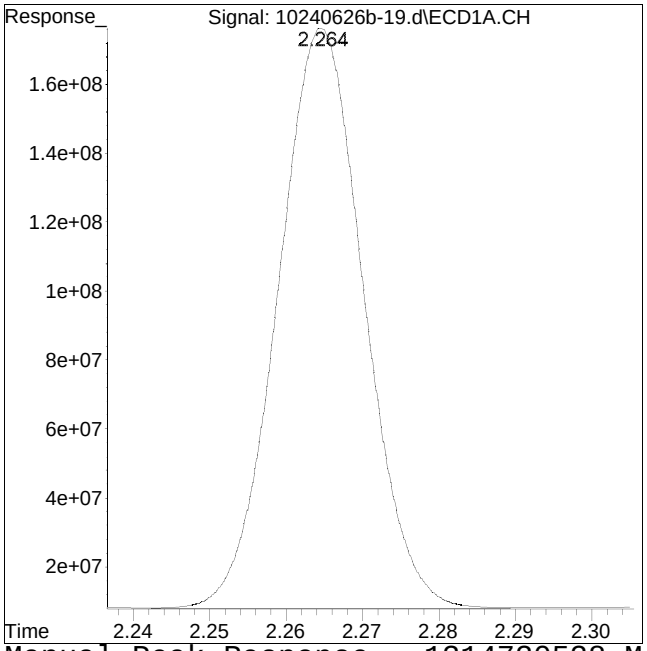
Original Peak Response = 163217586 Manual Peak Response = 157443766 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240626QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240626b-19.d Operator : PEST10:peg
Date Inj'd : 6/26/2024 20:29 Instrument : Pest 10
Sample : WG1939408-2,42,, Quant Date : 6/27/2024 6:55 am

Compound #7: delta-BHC



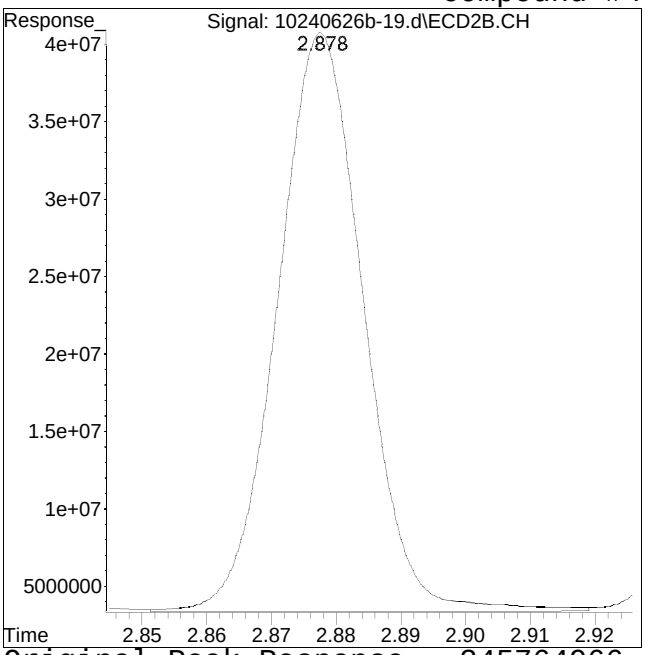


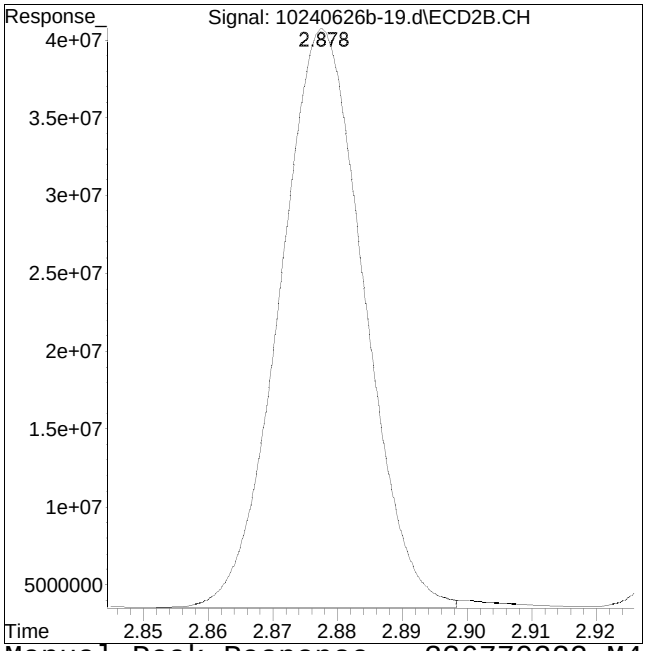
Original Peak Response = 1337702379 Manual Peak Response = 1314730538 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240626QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240626b-19.d Operator : PEST10:peg
Date Inj'd : 6/26/2024 20:29 Instrument : Pest 10
Sample : WG1939408-2,42,, Quant Date : 6/27/2024 6:55 am

Compound #45: delta-BHC #2



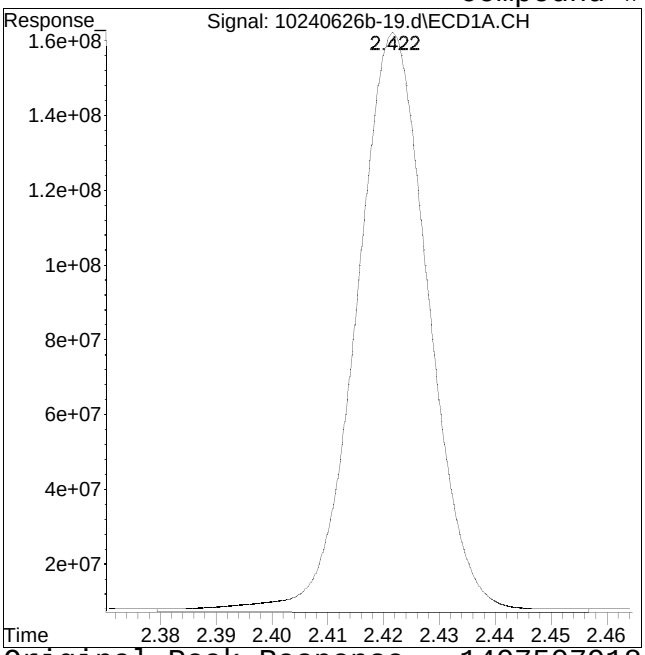


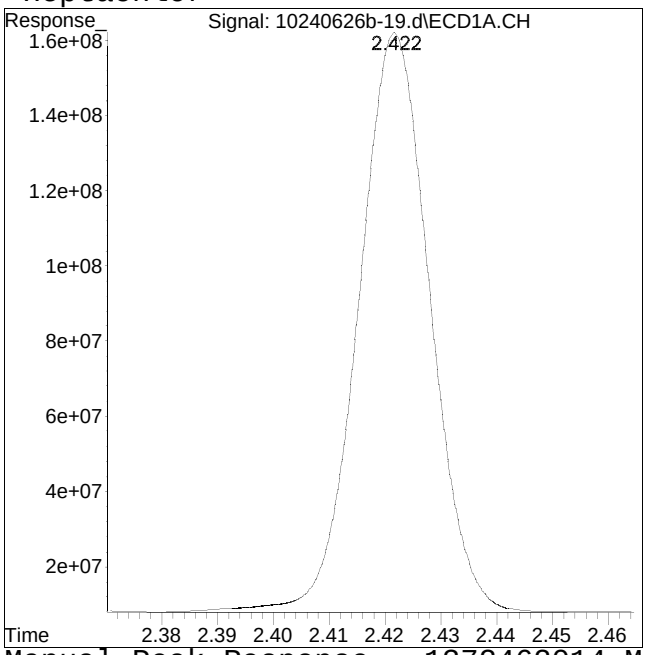
Original Peak Response = 345764966 Manual Peak Response = 336770222 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240626QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240626b-19.d Operator : PEST10:peg
Date Inj'd : 6/26/2024 20:29 Instrument : Pest 10
Sample : WG1939408-2,42,, Quant Date : 6/27/2024 6:55 am

Compound #8: Heptachlor



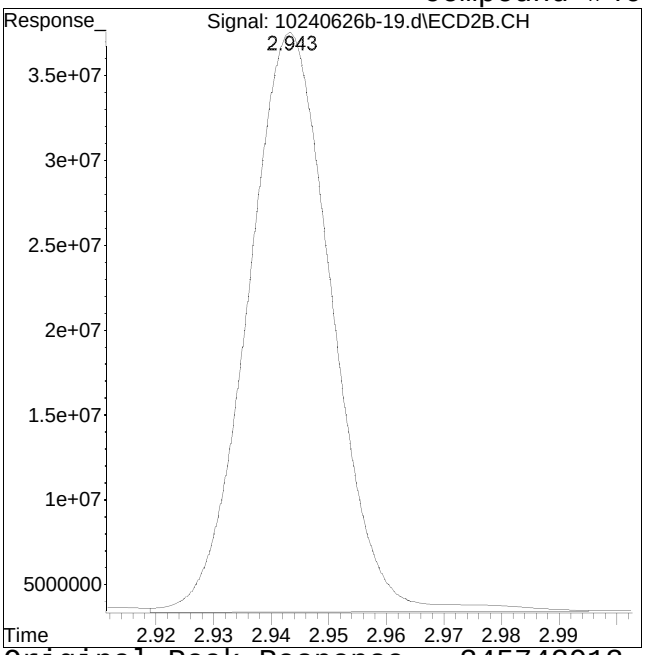


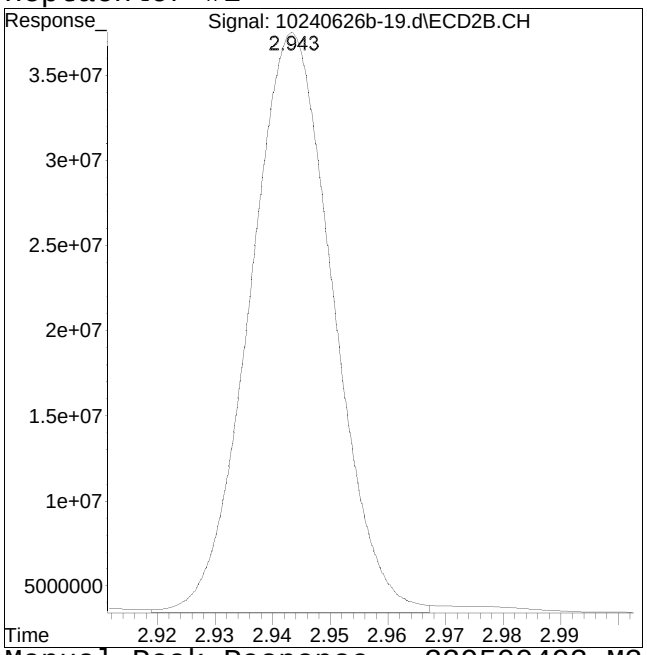
Original Peak Response = 1407507918 Manual Peak Response = 1372462014 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240626QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240626b-19.d Operator : PEST10:peg
Date Inj'd : 6/26/2024 20:29 Instrument : Pest 10
Sample : WG1939408-2,42,, Quant Date : 6/27/2024 6:55 am

Compound #46: Heptachlor #2



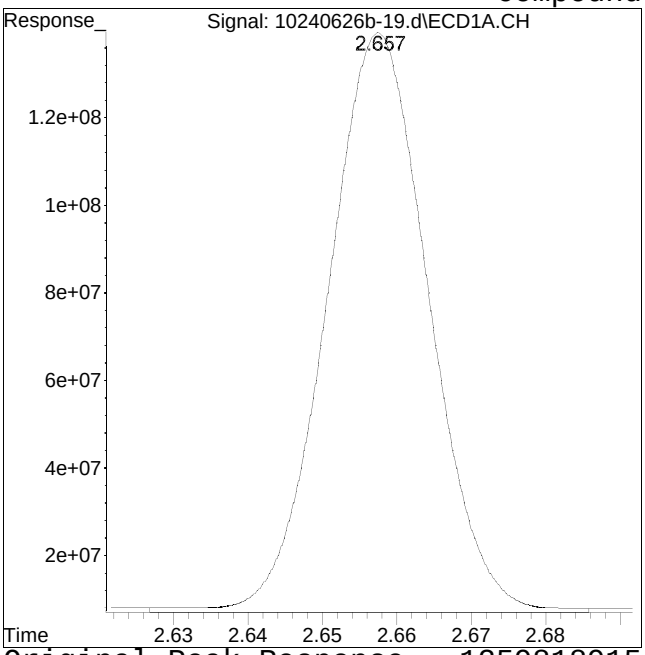


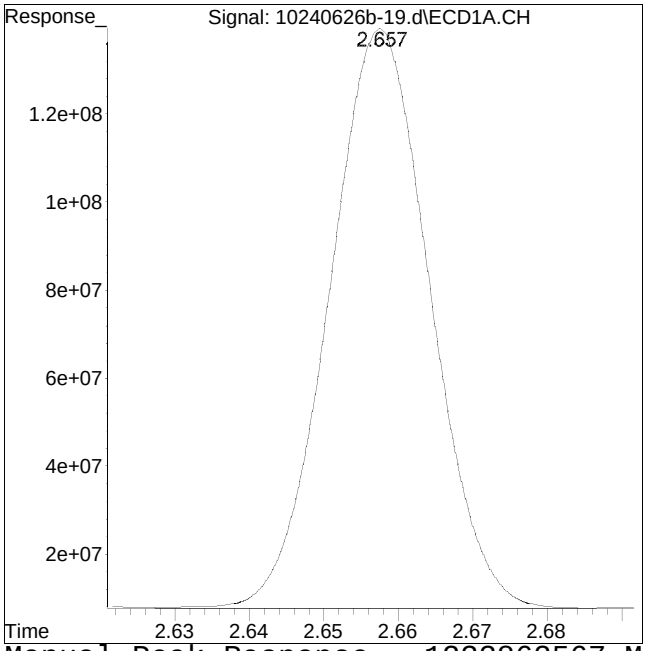
Original Peak Response = 345742913 Manual Peak Response = 339500493 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240626QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240626b-19.d Operator : PEST10:peg
Date Inj'd : 6/26/2024 20:29 Instrument : Pest 10
Sample : WG1939408-2,42,, Quant Date : 6/27/2024 6:55 am

Compound #9: Aldrin



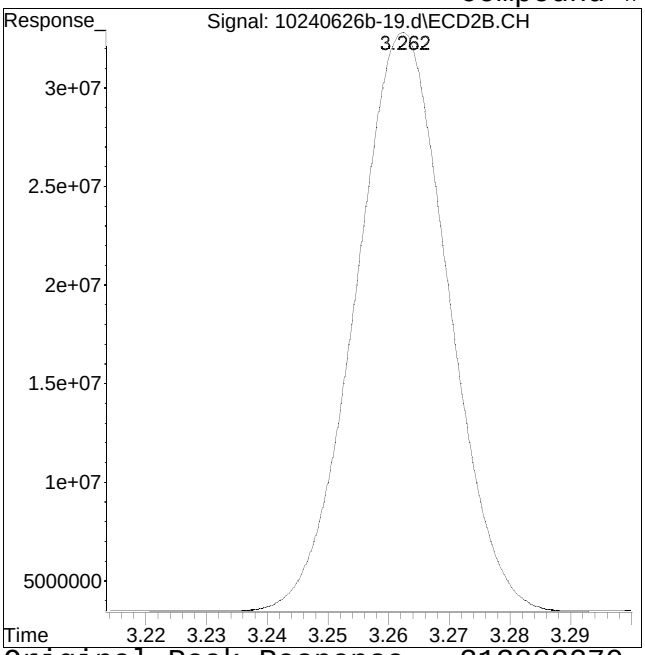


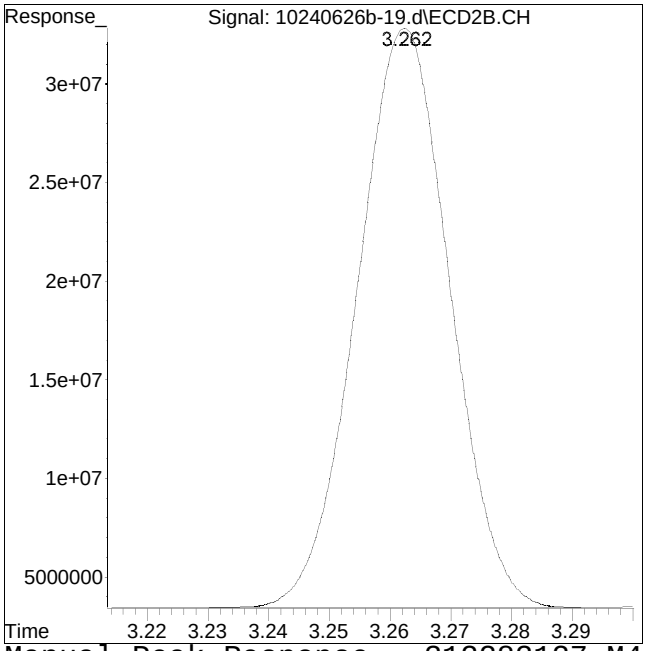
Original Peak Response = 1259818915 Manual Peak Response = 1233862567 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240626QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240626b-19.d Operator : PEST10:peg
Date Inj'd : 6/26/2024 20:29 Instrument : Pest 10
Sample : WG1939408-2,42,, Quant Date : 6/27/2024 6:55 am

Compound #47: Aldrin #2



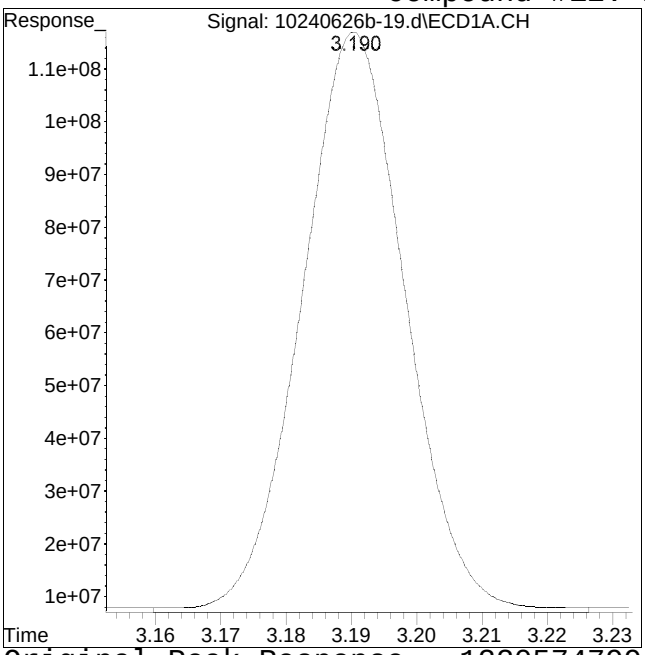


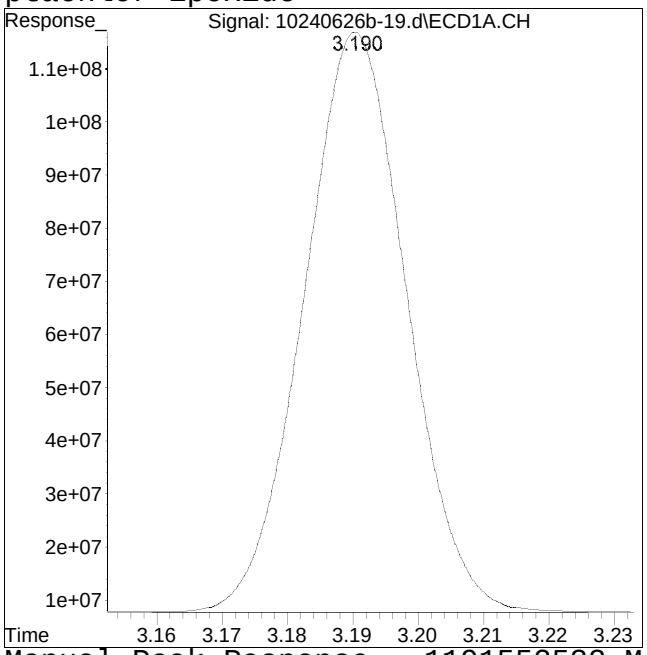
Original Peak Response = 313822270 Manual Peak Response = 312283127 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240626QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240626b-19.d Operator : PEST10:peg
Date Inj'd : 6/26/2024 20:29 Instrument : Pest 10
Sample : WG1939408-2,42,, Quant Date : 6/27/2024 6:55 am

Compound #12: Heptachlor Epoxide



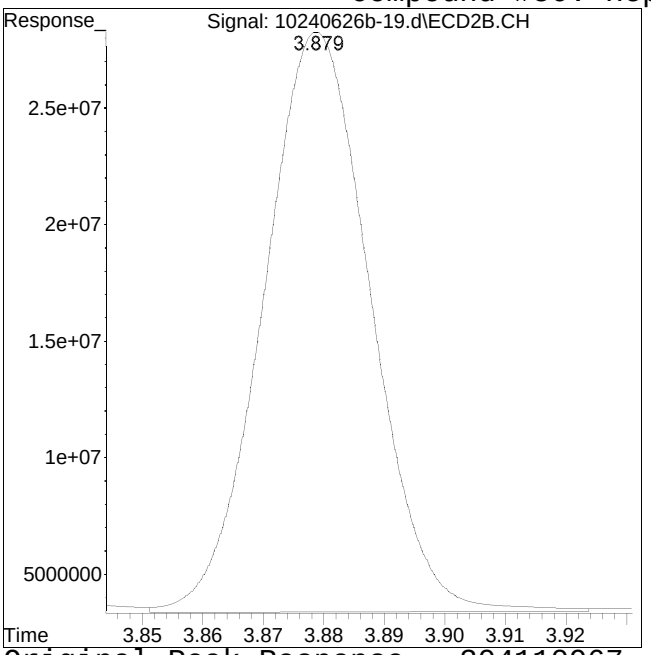


Original Peak Response = 1220574799 Manual Peak Response = 1191552532 M4
M4 = Poor automated baseline construction.

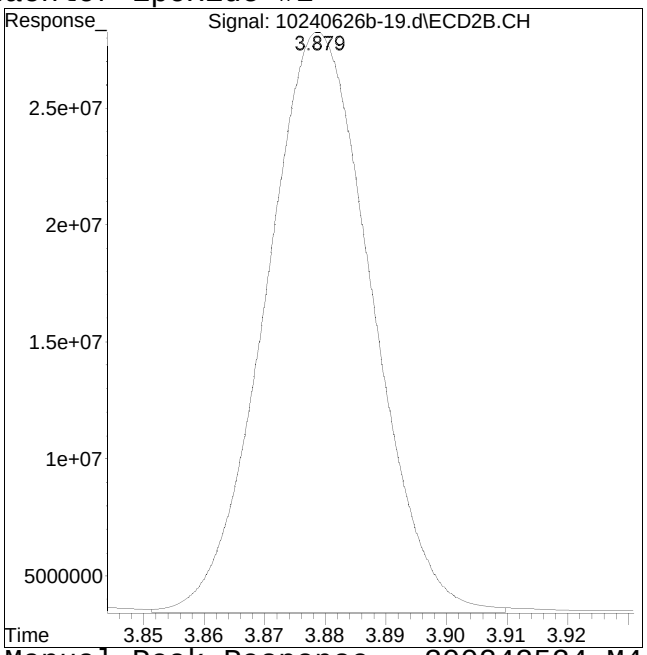
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240626QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240626b-19.d Operator : PEST10:peg
Date Inj'd : 6/26/2024 20:29 Instrument : Pest 10
Sample : WG1939408-2,42,, Quant Date : 6/27/2024 6:55 am

Compound #50: Heptachlor Epoxide #2



Original Peak Response = 304110967



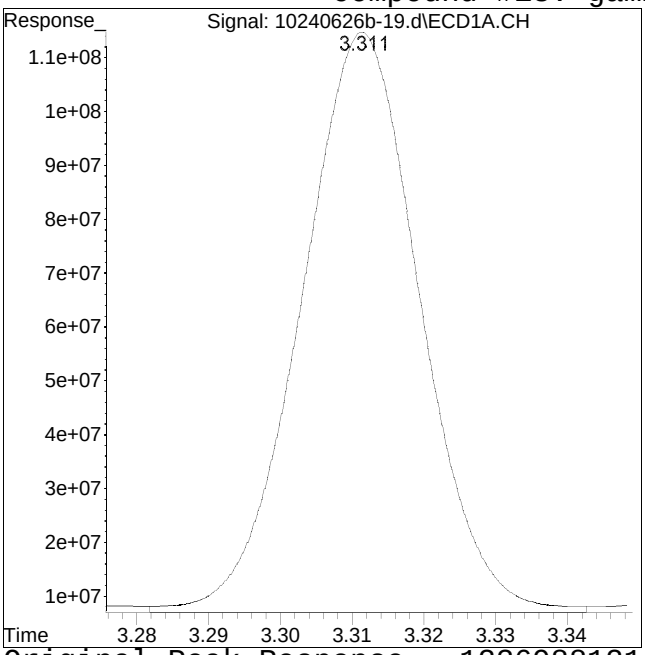
Manual Peak Response = 300242524 M4

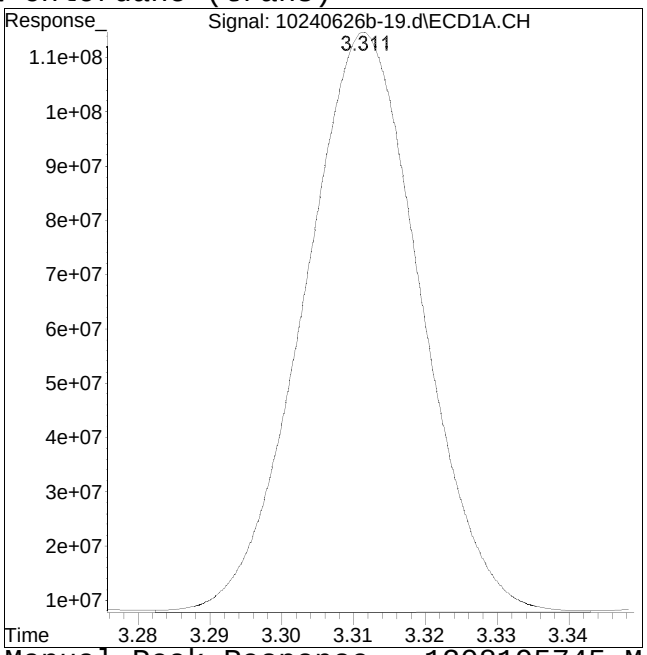
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240626QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240626b-19.d Operator : PEST10:peg
Date Inj'd : 6/26/2024 20:29 Instrument : Pest 10
Sample : WG1939408-2,42,, Quant Date : 6/27/2024 6:55 am

Compound #13: gamma-Chlordane (trans)



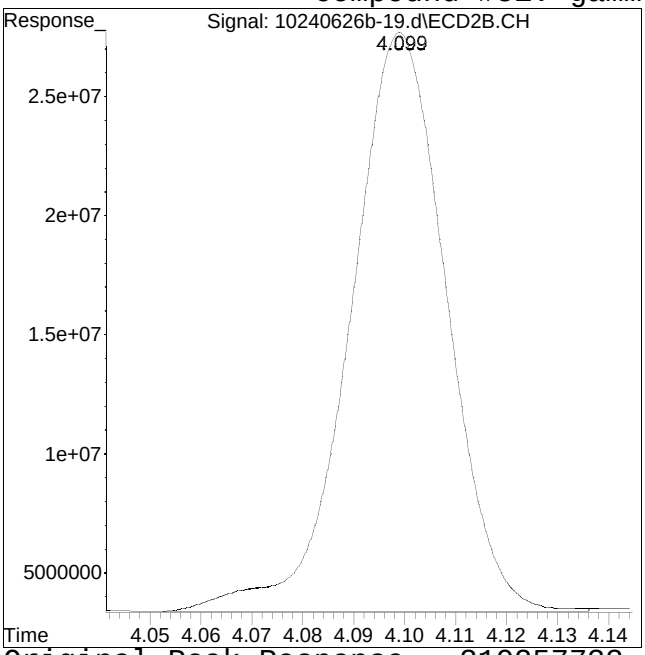


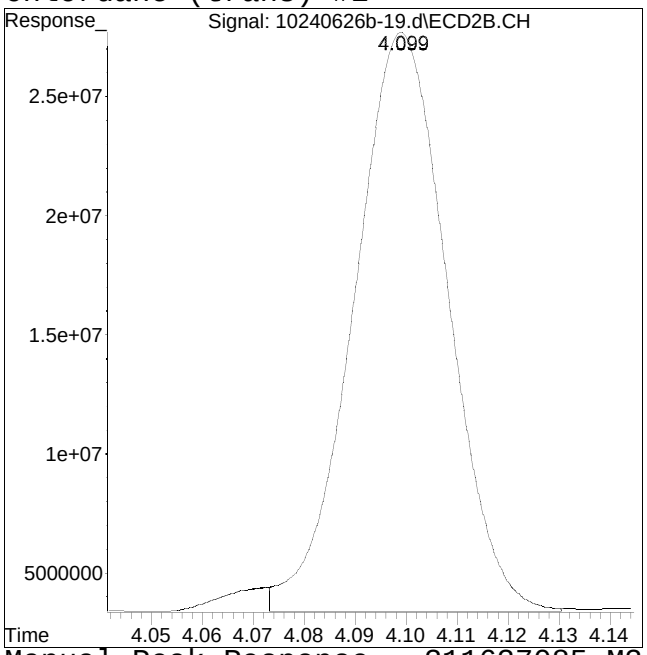
Original Peak Response = 1236988121 Manual Peak Response = 1208195745 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240626QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240626b-19.d Operator : PEST10:peg
Date Inj'd : 6/26/2024 20:29 Instrument : Pest 10
Sample : WG1939408-2,42,, Quant Date : 6/27/2024 6:55 am

Compound #51: gamma-Chlordane (trans) #2



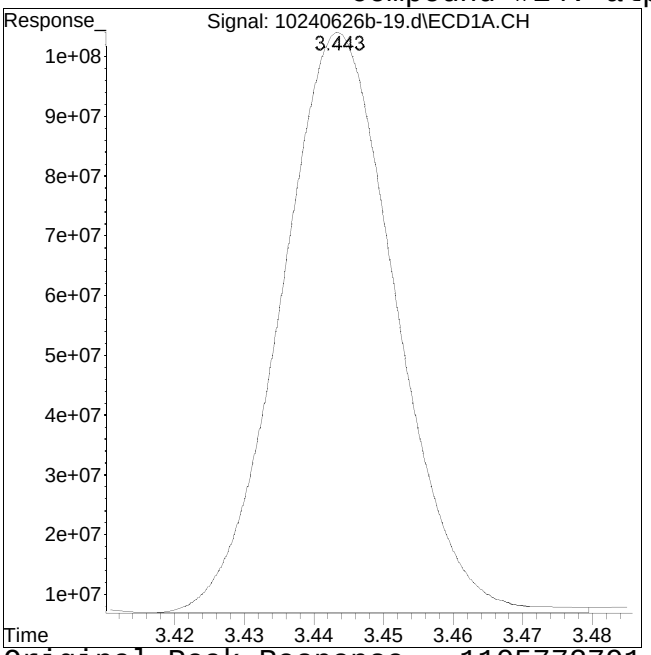


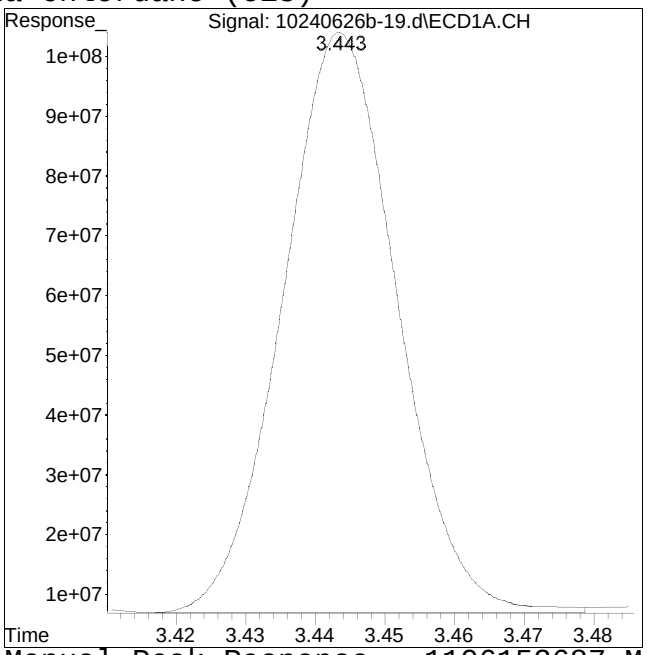
Original Peak Response = 319257733 Manual Peak Response = 311637085 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240626QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240626b-19.d Operator : PEST10:peg
Date Inj'd : 6/26/2024 20:29 Instrument : Pest 10
Sample : WG1939408-2,42,, Quant Date : 6/27/2024 6:55 am

Compound #14: alpha-Chlordane (cis)



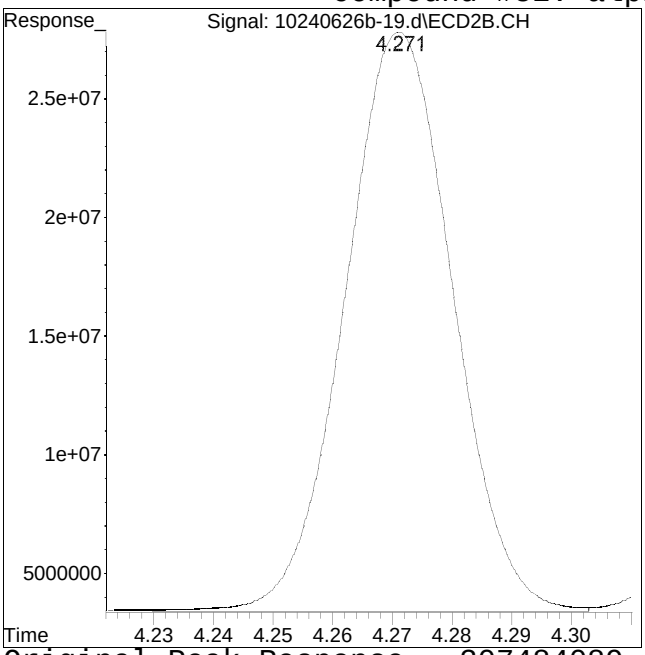


Original Peak Response = 1105772791 Manual Peak Response = 1106152687 M4
M4 = Poor automated baseline construction.

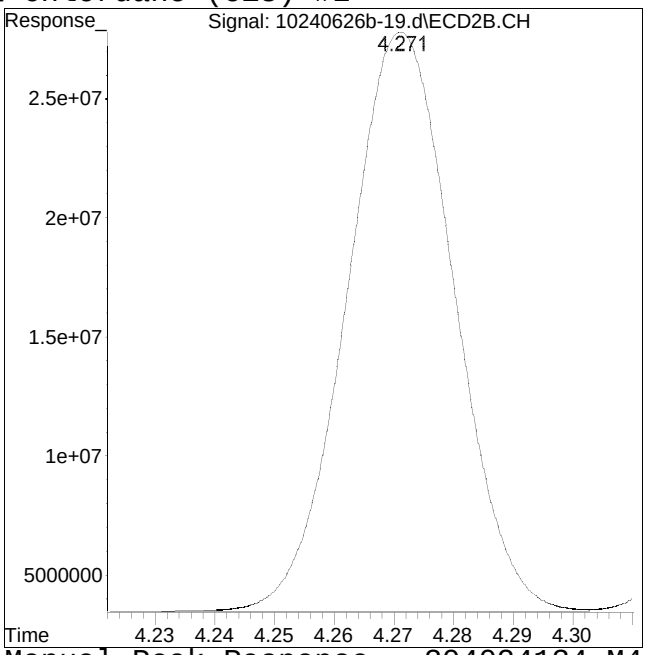
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240626QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240626b-19.d Operator : PEST10:peg
Date Inj'd : 6/26/2024 20:29 Instrument : Pest 10
Sample : WG1939408-2,42,, Quant Date : 6/27/2024 6:55 am

Compound #52: alpha-Chlordane (cis) #2



Original Peak Response = 307484089



Manual Peak Response = 304024134 M4

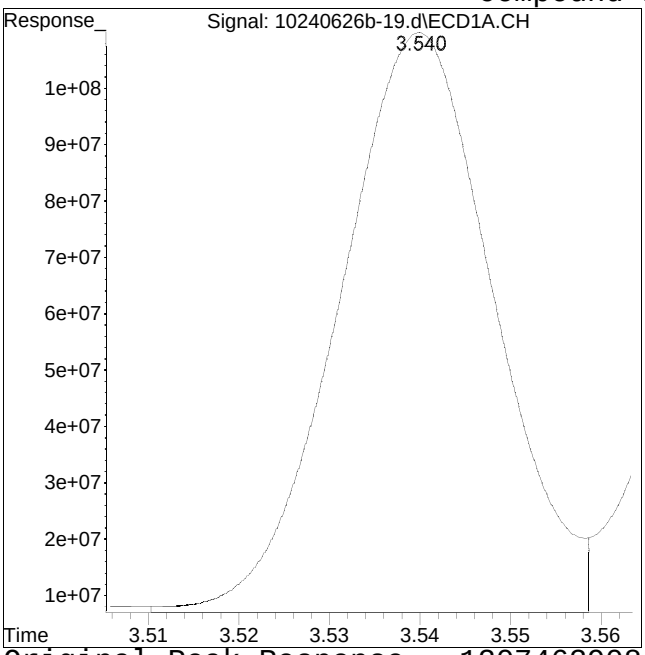
M4 = Poor automated baseline construction.

Manual Integration Report

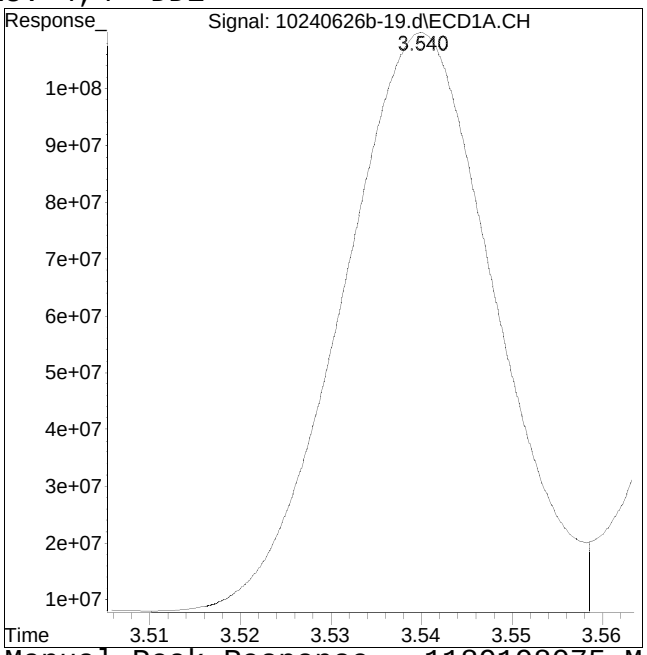
Data Path : I:\PEST\Pest10\2024\240626Q
Data File : 10240626b-19.d
Date Inj'd : 6/26/2024 20:29
Sample : WG1939408-2,42,,

Method : pest10_2024_05_02_ugL_ic
Operator : PEST10:peg
Instrument : Pest 10
Quant Date : 6/27/2024 6:55 am

Compound #15: 4,4'-DDE



Original Peak Response = 1207463908



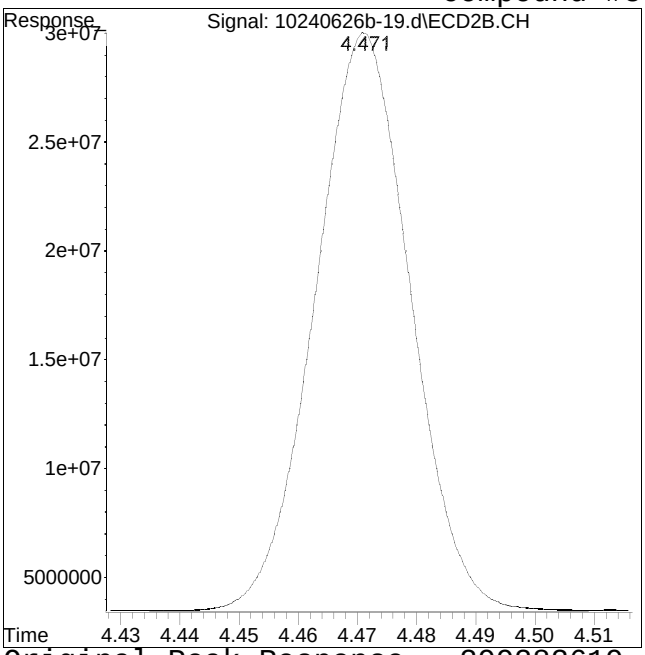
Manual Peak Response = 1189198075 M4

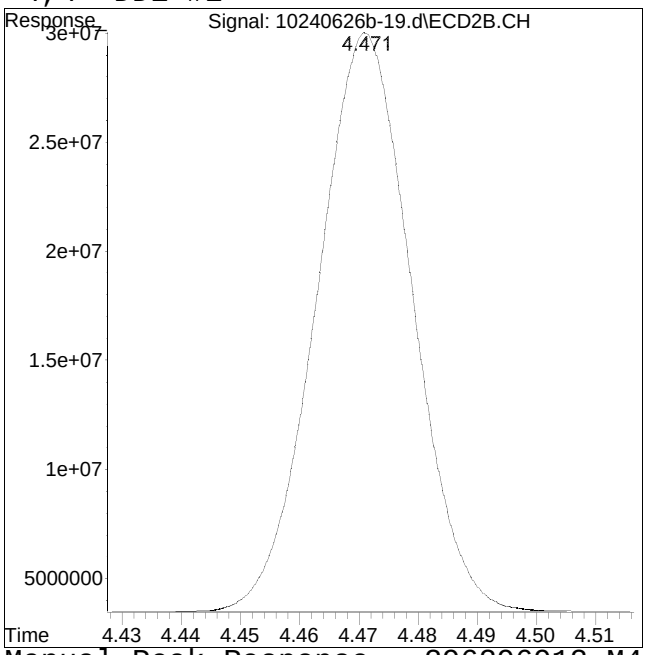
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240626QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240626b-19.d Operator : PEST10:peg
Date Inj'd : 6/26/2024 20:29 Instrument : Pest 10
Sample : WG1939408-2,42,, Quant Date : 6/27/2024 6:55 am

Compound #53: 4,4'-DDE #2



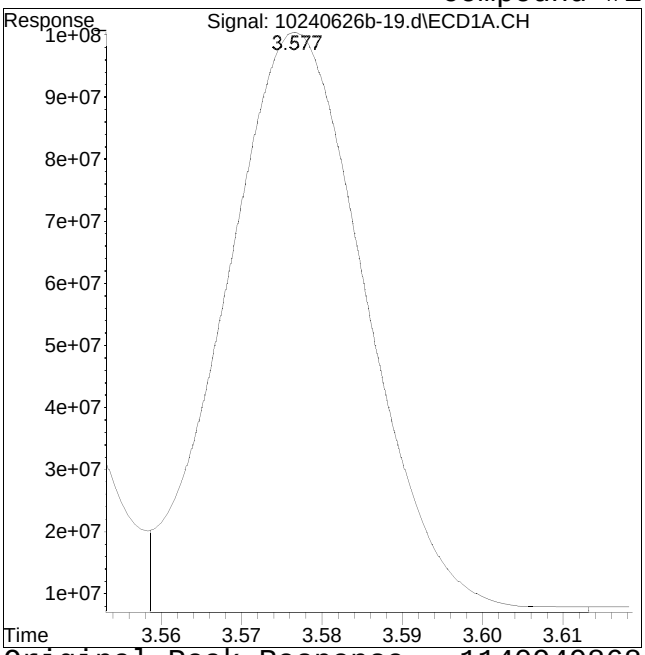


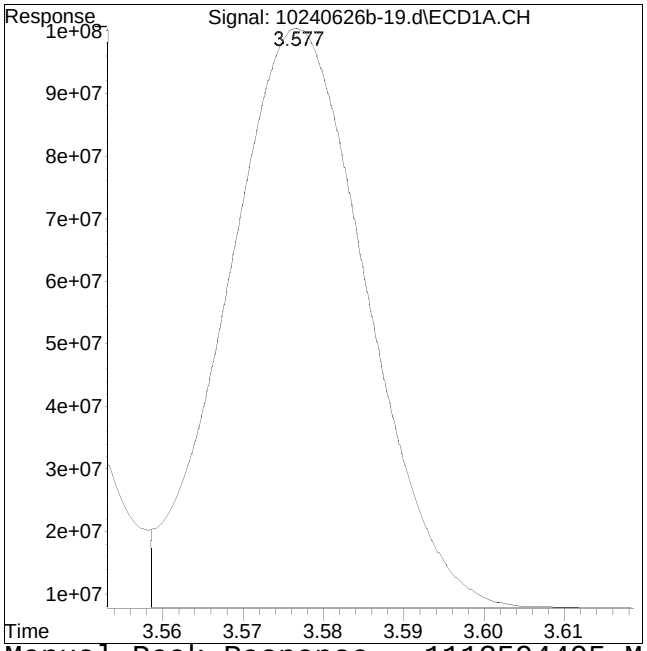
Original Peak Response = 299282619 Manual Peak Response = 296296912 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240626QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240626b-19.d Operator : PEST10:peg
Date Inj'd : 6/26/2024 20:29 Instrument : Pest 10
Sample : WG1939408-2,42,, Quant Date : 6/27/2024 6:55 am

Compound #16: Endosulfan I



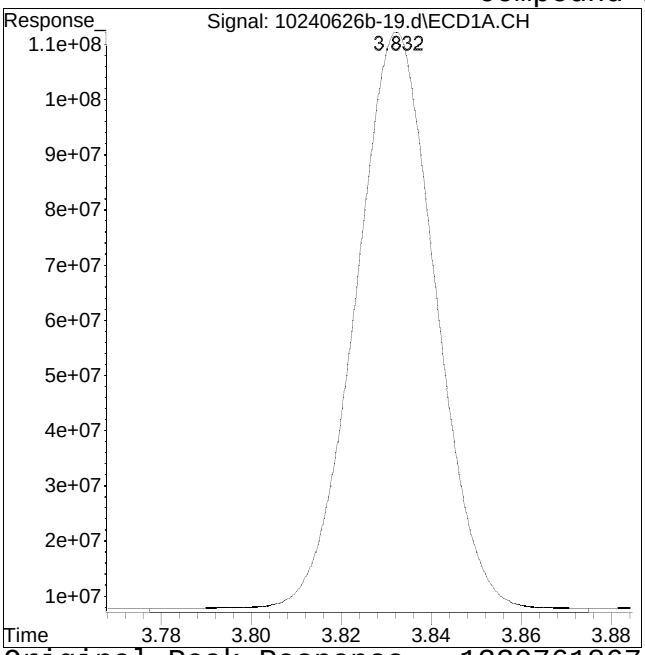


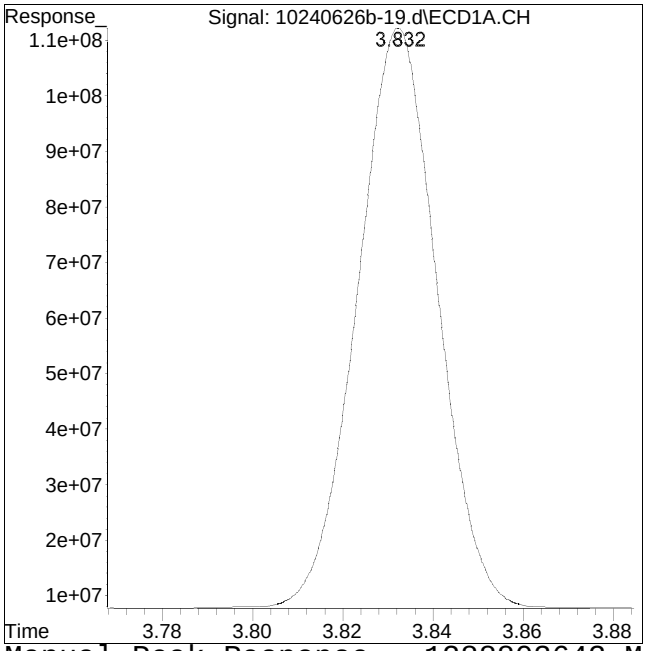
Original Peak Response = 1140949868 Manual Peak Response = 1113594405 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240626QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240626b-19.d Operator : PEST10:peg
Date Inj'd : 6/26/2024 20:29 Instrument : Pest 10
Sample : WG1939408-2,42,, Quant Date : 6/27/2024 6:55 am

Compound #17: Dieldrin



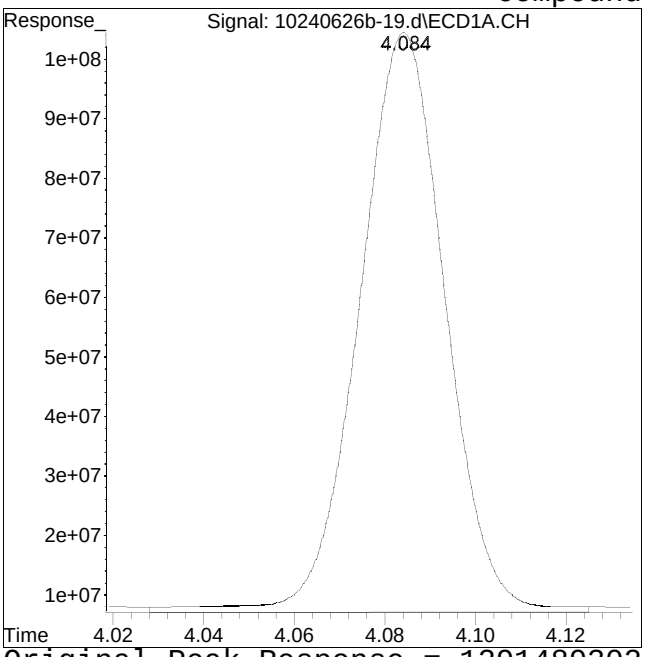


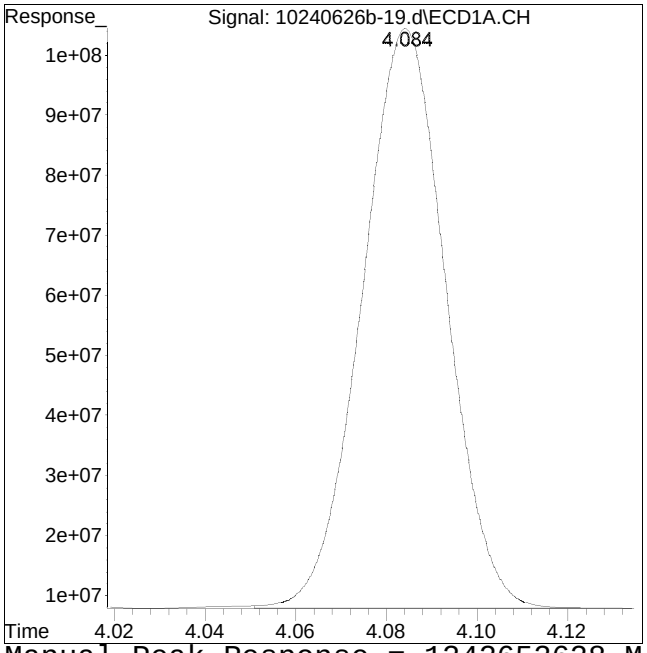
Original Peak Response = 1330761867 Manual Peak Response = 1288803643 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240626QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240626b-19.d Operator : PEST10:peg
Date Inj'd : 6/26/2024 20:29 Instrument : Pest 10
Sample : WG1939408-2,42,, Quant Date : 6/27/2024 6:55 am

Compound #18: Endrin



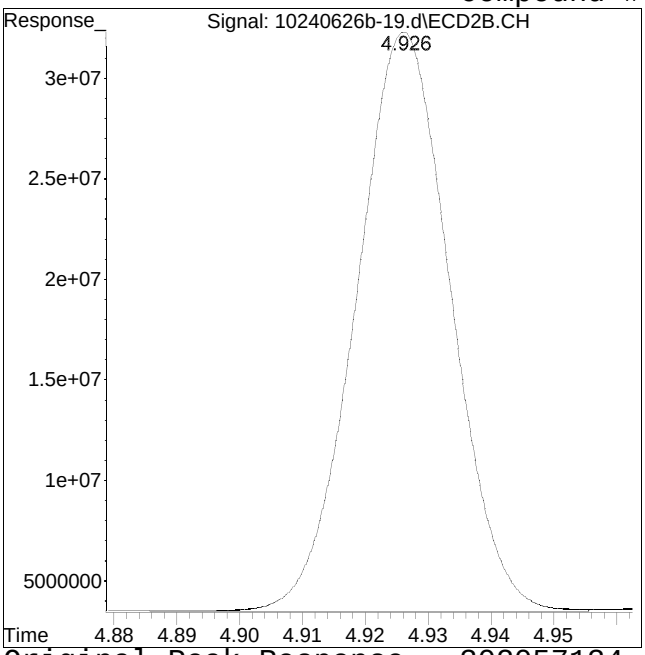


Original Peak Response = 1291489302 Manual Peak Response = 1242652628 M4
M4 = Poor automated baseline construction.

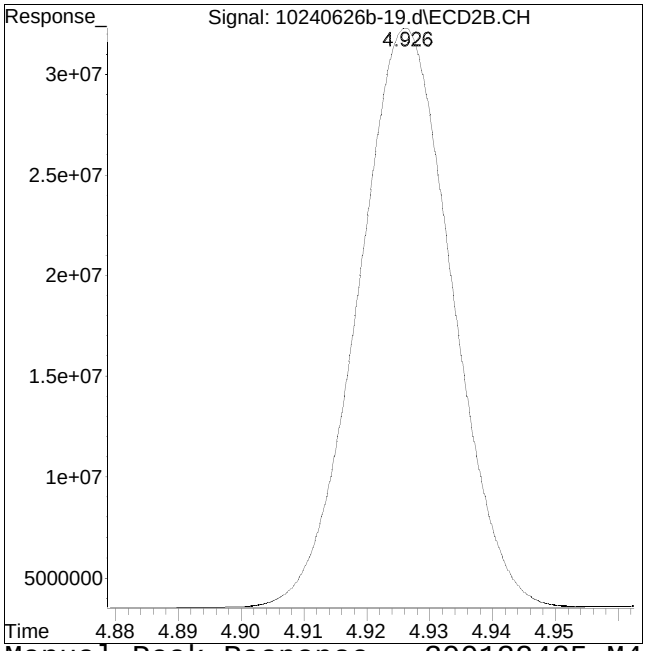
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240626QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240626b-19.d Operator : PEST10:peg
Date Inj'd : 6/26/2024 20:29 Instrument : Pest 10
Sample : WG1939408-2,42,, Quant Date : 6/27/2024 6:55 am

Compound #56: Endrin #2



Original Peak Response = 302057134



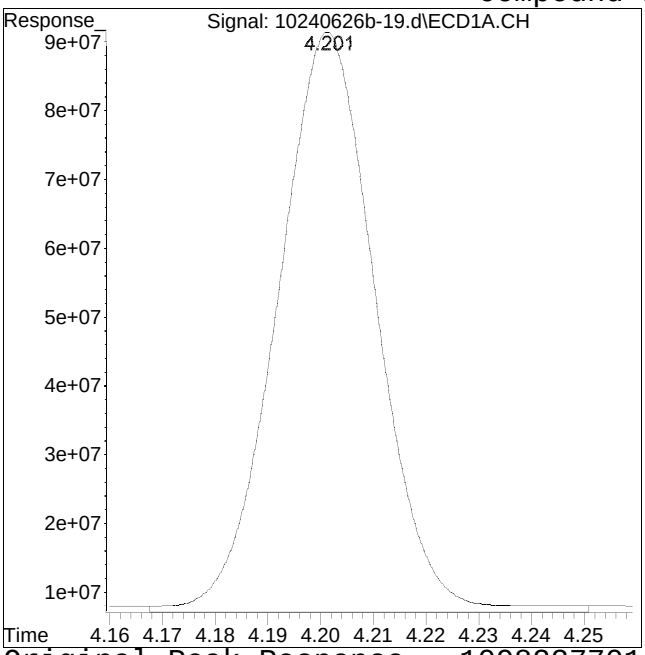
Manual Peak Response = 300132485 M4

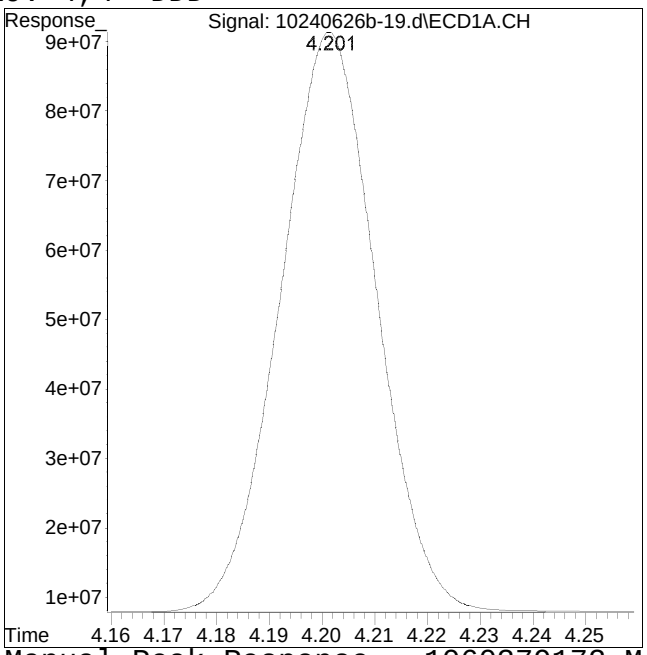
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240626QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240626b-19.d Operator : PEST10:peg
Date Inj'd : 6/26/2024 20:29 Instrument : Pest 10
Sample : WG1939408-2,42,, Quant Date : 6/27/2024 6:55 am

Compound #19: 4,4'-DDD



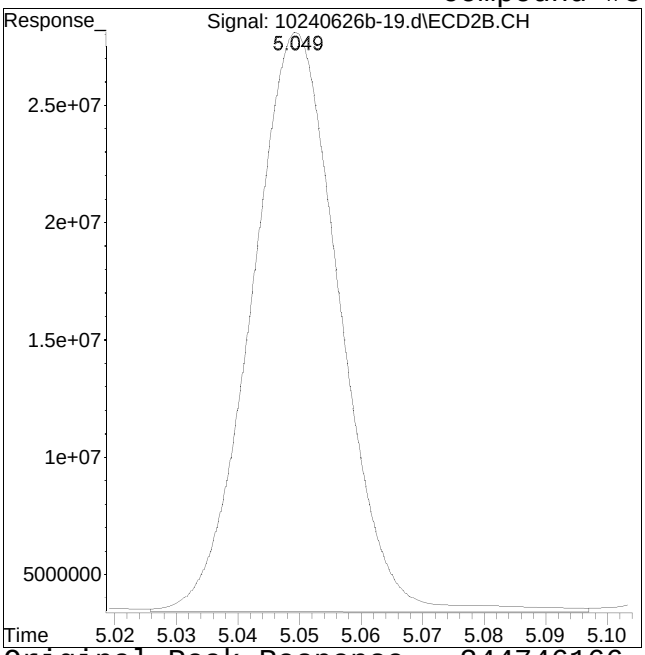


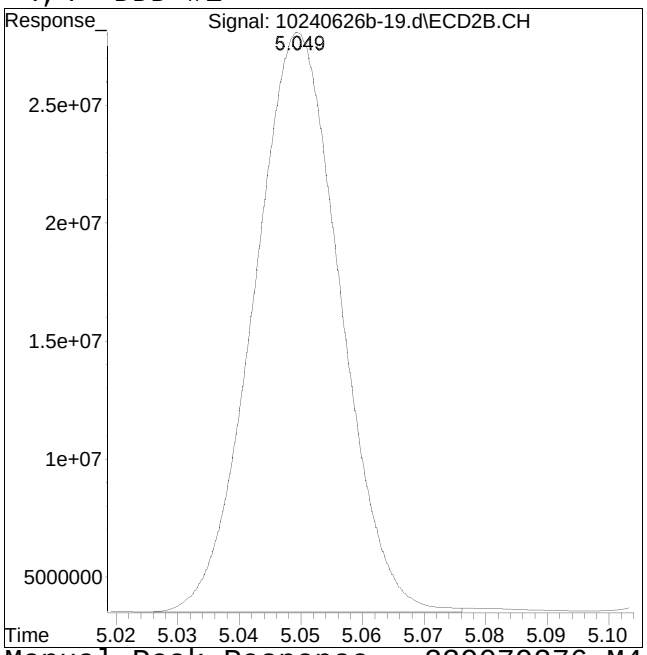
Original Peak Response = 1098227701 Manual Peak Response = 1060379172 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240626QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240626b-19.d Operator : PEST10:peg
Date Inj'd : 6/26/2024 20:29 Instrument : Pest 10
Sample : WG1939408-2,42,, Quant Date : 6/27/2024 6:55 am

Compound #57: 4,4'-DDD #2



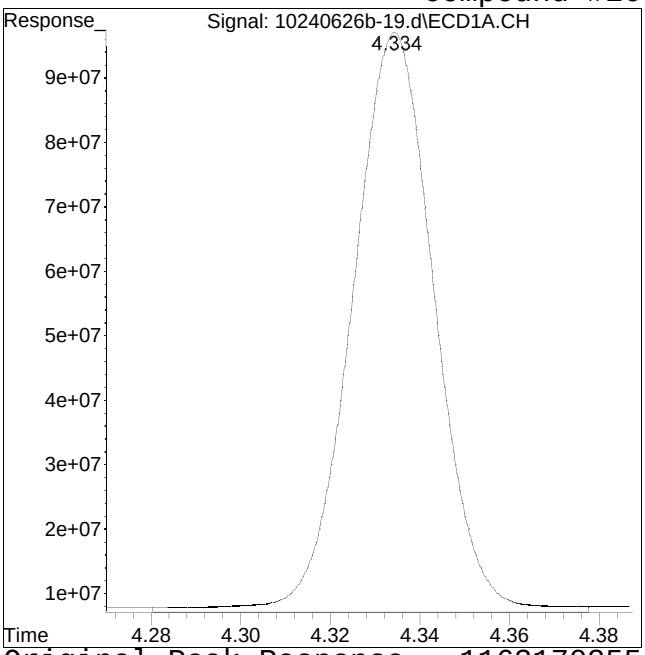


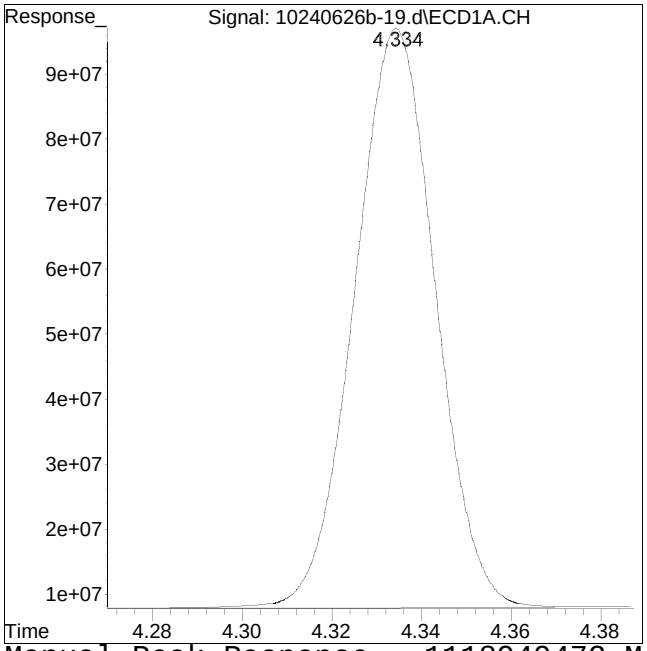
Original Peak Response = 244746166 Manual Peak Response = 239079276 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240626QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240626b-19.d Operator : PEST10:peg
Date Inj'd : 6/26/2024 20:29 Instrument : Pest 10
Sample : WG1939408-2,42,, Quant Date : 6/27/2024 6:55 am

Compound #20: Endosulfan II



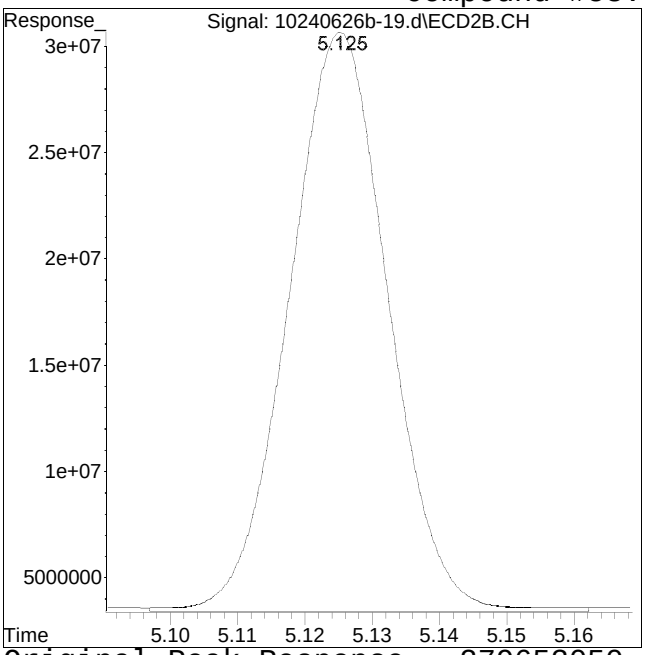


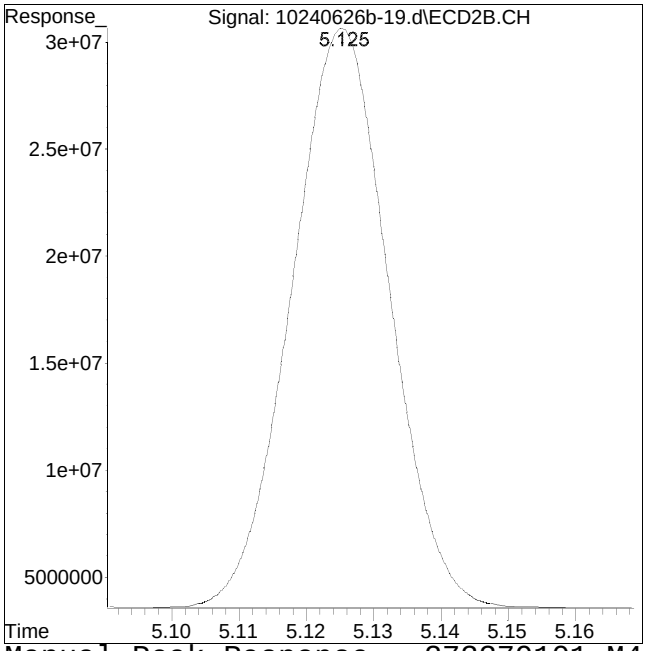
Original Peak Response = 1163170355 Manual Peak Response = 1118949472 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240626QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240626b-19.d Operator : PEST10:peg
Date Inj'd : 6/26/2024 20:29 Instrument : Pest 10
Sample : WG1939408-2,42,, Quant Date : 6/27/2024 6:55 am

Compound #58: Endosulfan II #2



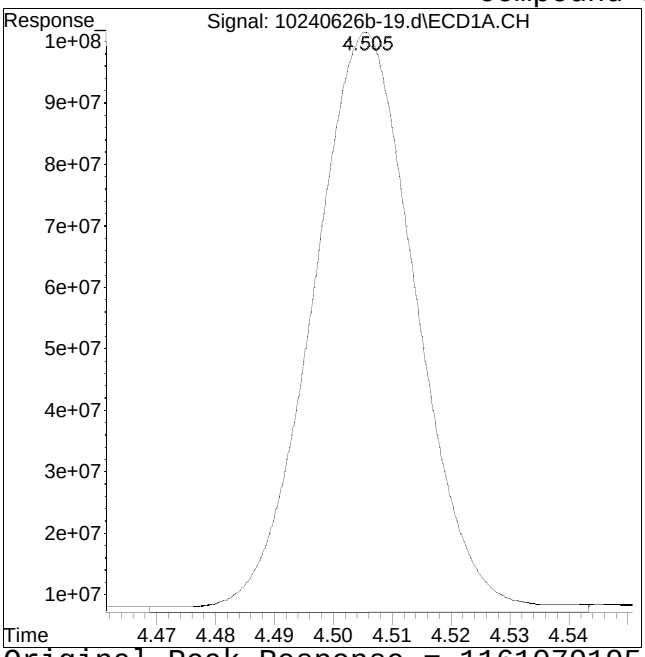


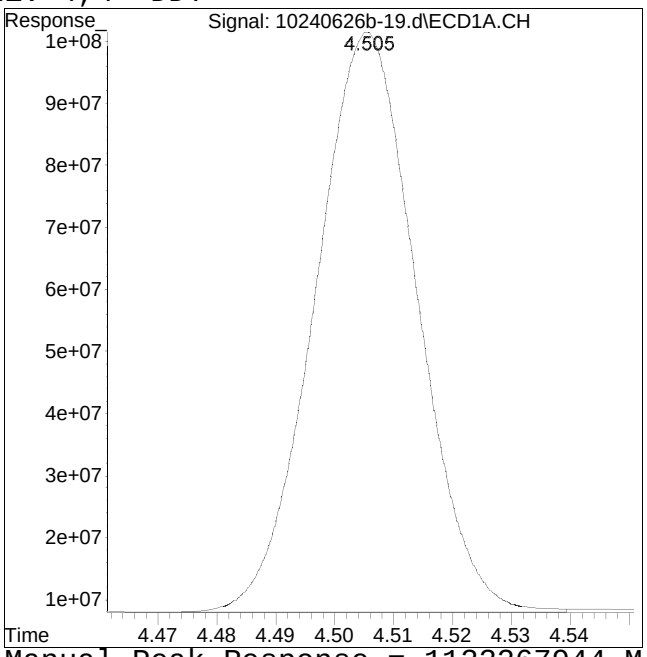
Original Peak Response = 279653050 Manual Peak Response = 273379101 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240626QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240626b-19.d Operator : PEST10:peg
Date Inj'd : 6/26/2024 20:29 Instrument : Pest 10
Sample : WG1939408-2,42,, Quant Date : 6/27/2024 6:55 am

Compound #21: 4,4'-DDT



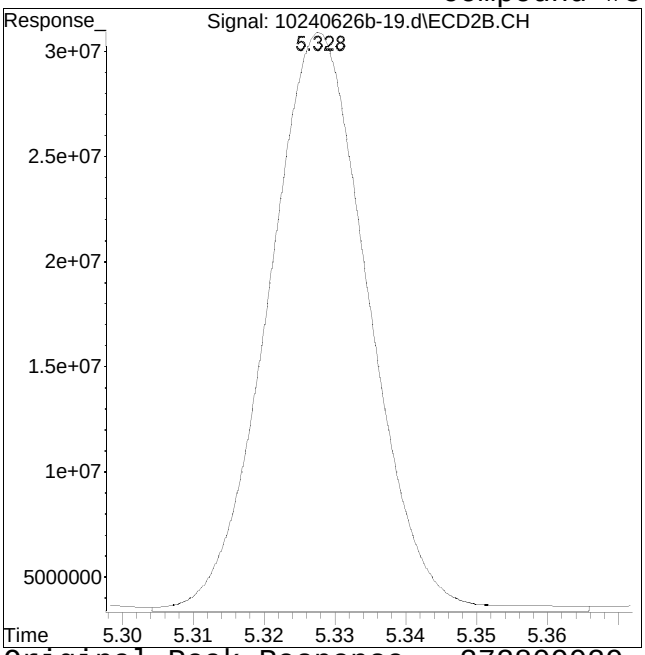


Original Peak Response = 1161079195 Manual Peak Response = 1123267944 M4
M4 = Poor automated baseline construction.

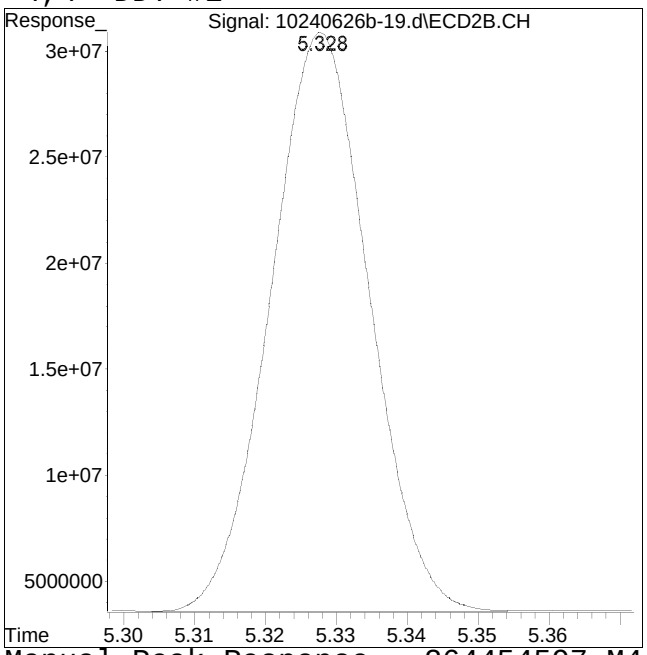
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240626QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240626b-19.d Operator : PEST10:peg
Date Inj'd : 6/26/2024 20:29 Instrument : Pest 10
Sample : WG1939408-2,42,, Quant Date : 6/27/2024 6:55 am

Compound #59: 4,4'-DDT #2



Original Peak Response = 272809929



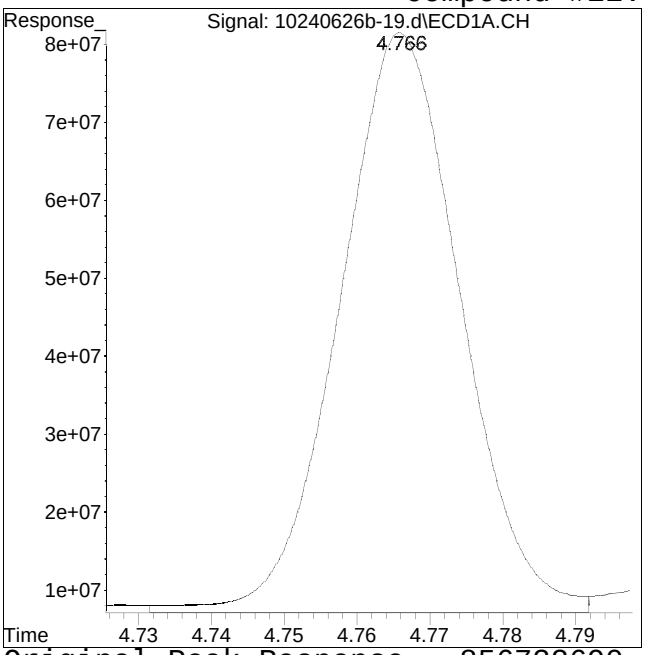
Manual Peak Response = 264454597 M4

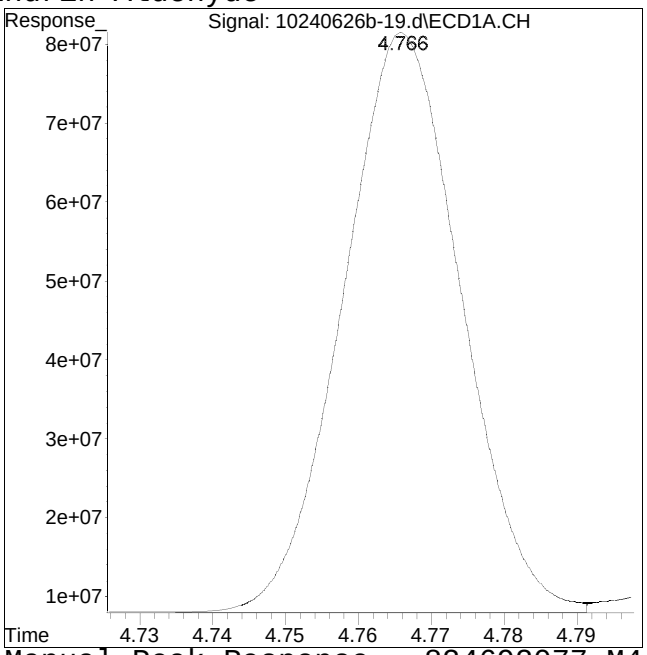
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240626QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240626b-19.d Operator : PEST10:peg
Date Inj'd : 6/26/2024 20:29 Instrument : Pest 10
Sample : WG1939408-2,42,, Quant Date : 6/27/2024 6:55 am

Compound #22: Endrin Aldehyde



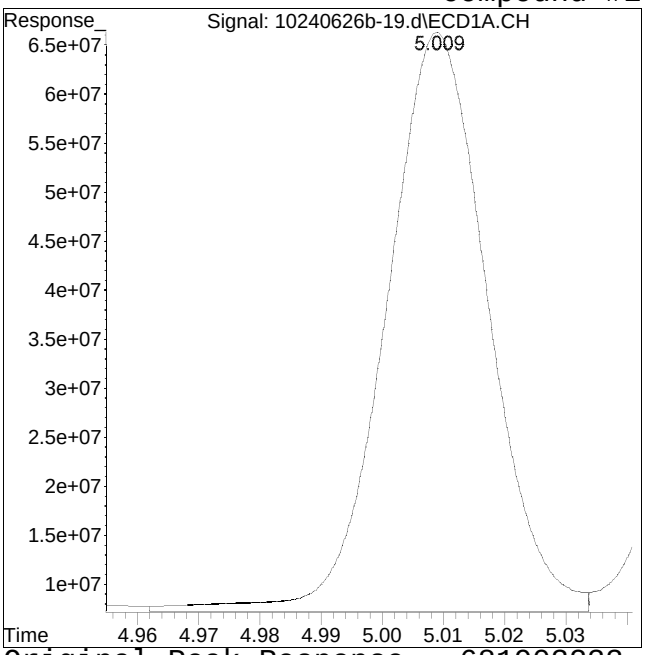


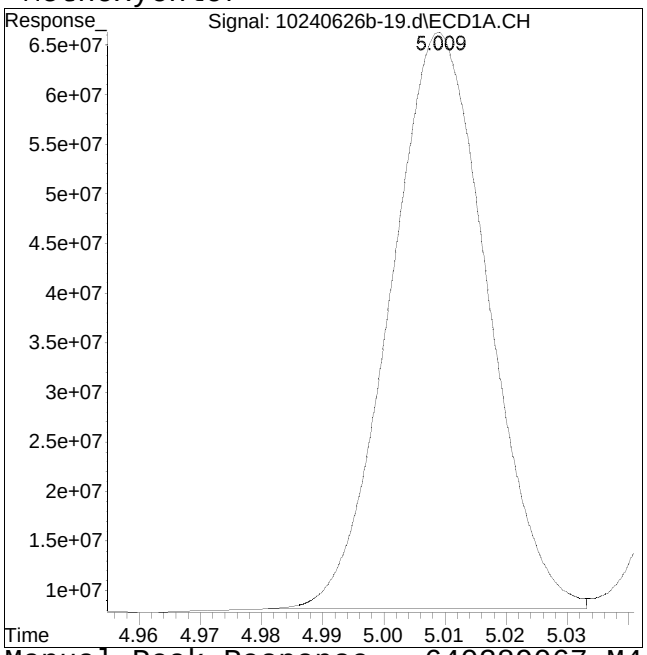
Original Peak Response = 856732690 Manual Peak Response = 824692077 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240626QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240626b-19.d Operator : PEST10:peg
Date Inj'd : 6/26/2024 20:29 Instrument : Pest 10
Sample : WG1939408-2,42,, Quant Date : 6/27/2024 6:55 am

Compound #23: Methoxychlor



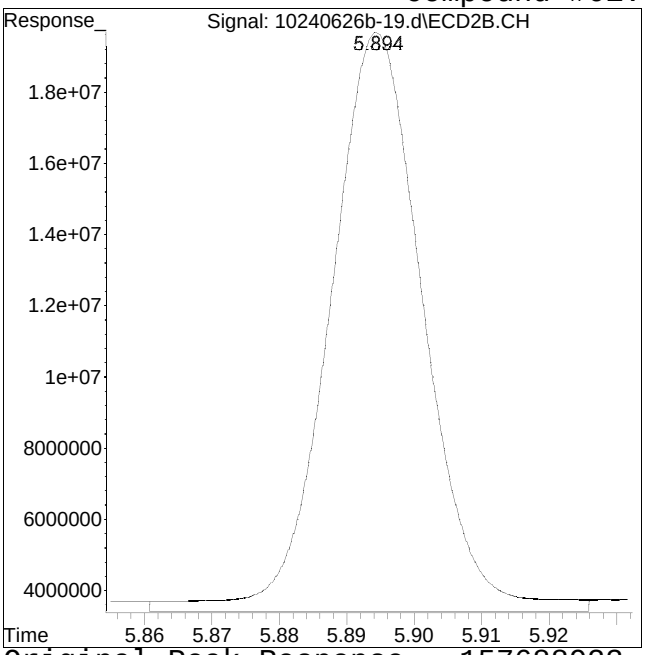


Original Peak Response = 681903233 Manual Peak Response = 640389067 M4
M4 = Poor automated baseline construction.

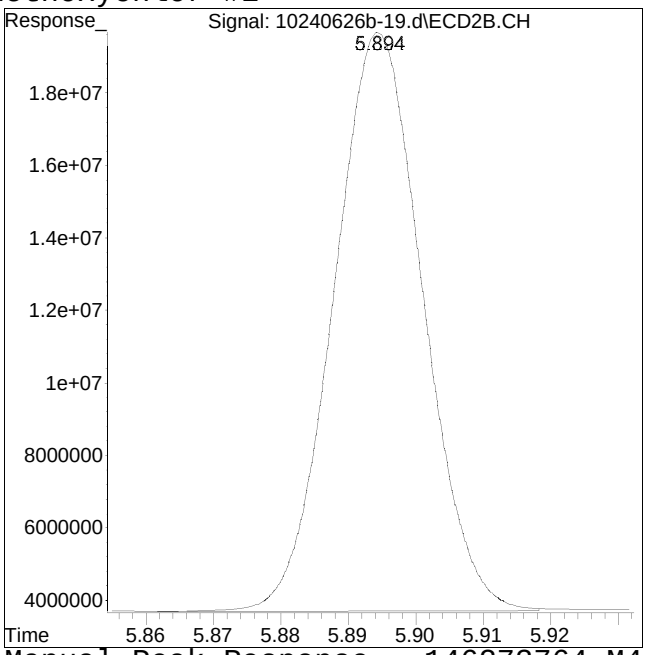
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240626QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240626b-19.d Operator : PEST10:peg
Date Inj'd : 6/26/2024 20:29 Instrument : Pest 10
Sample : WG1939408-2,42,, Quant Date : 6/27/2024 6:55 am

Compound #61: Methoxychlor #2



Original Peak Response = 157688923



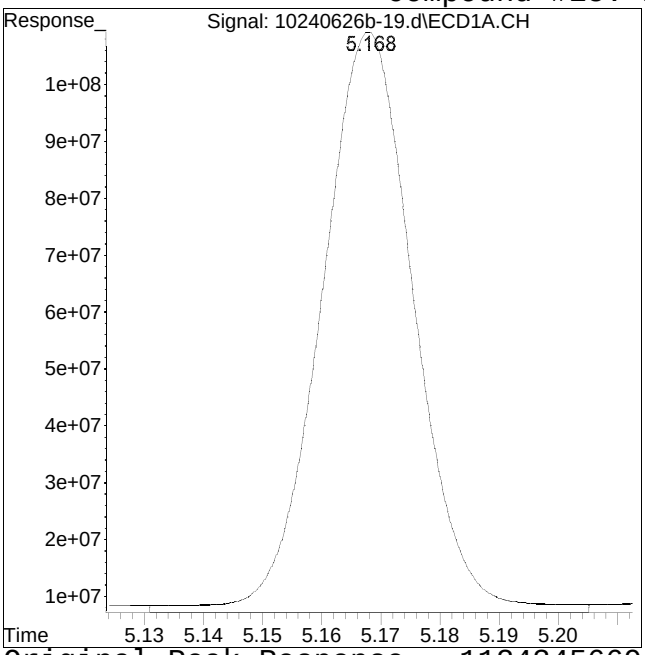
Manual Peak Response = 146273764 M4

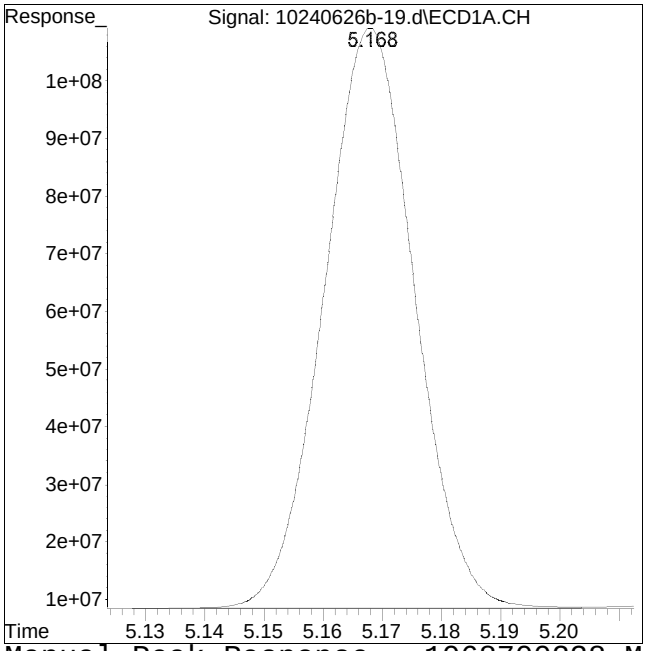
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240626QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240626b-19.d Operator : PEST10:peg
Date Inj'd : 6/26/2024 20:29 Instrument : Pest 10
Sample : WG1939408-2,42,, Quant Date : 6/27/2024 6:55 am

Compound #25: Endosulfan Sulfate



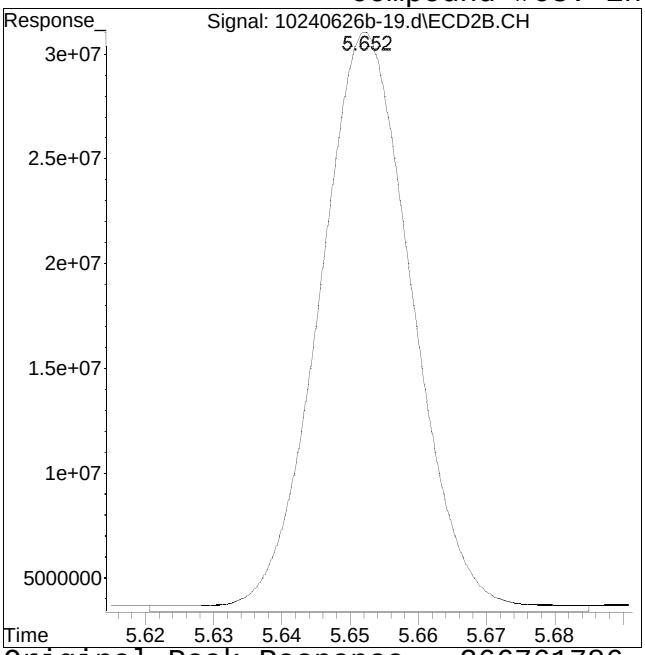


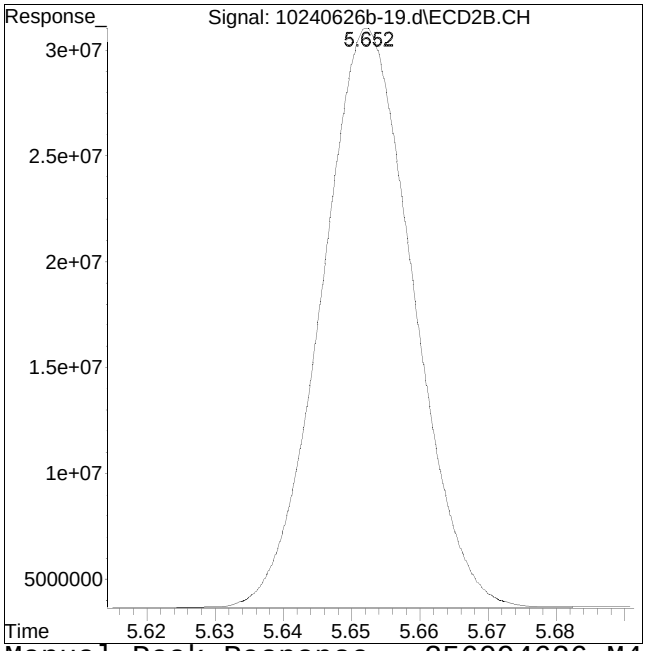
Original Peak Response = 1124345669 Manual Peak Response = 1068700238 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240626QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240626b-19.d Operator : PEST10:peg
Date Inj'd : 6/26/2024 20:29 Instrument : Pest 10
Sample : WG1939408-2,42,, Quant Date : 6/27/2024 6:55 am

Compound #63: Endosulfan Sulfate #2



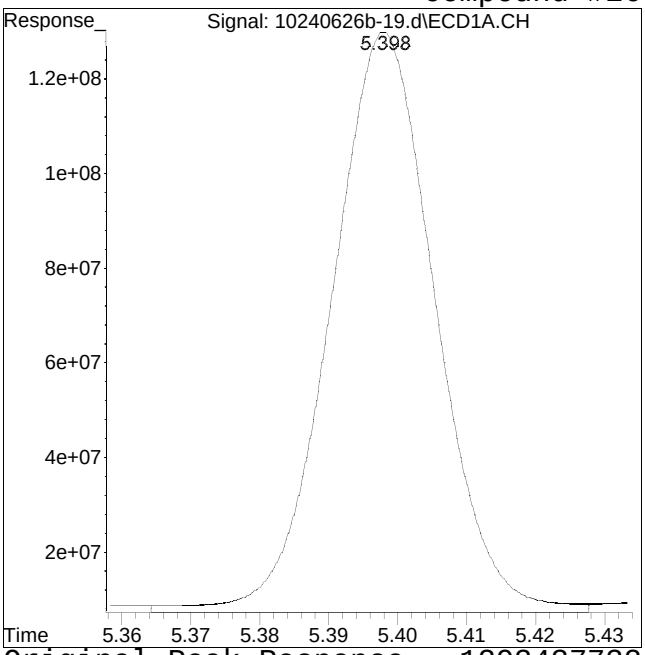


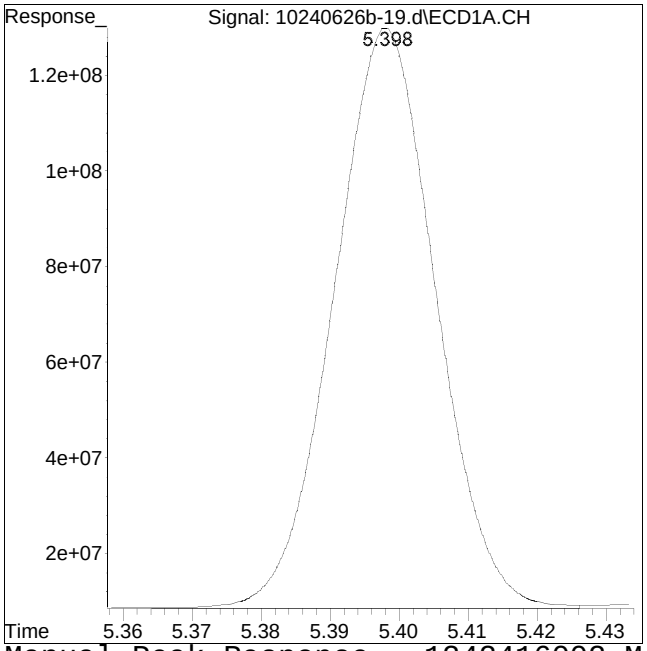
Original Peak Response = 266761786 Manual Peak Response = 256094626 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240626QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240626b-19.d Operator : PEST10:peg
Date Inj'd : 6/26/2024 20:29 Instrument : Pest 10
Sample : WG1939408-2,42,, Quant Date : 6/27/2024 6:55 am

Compound #26: Endrin Ketone



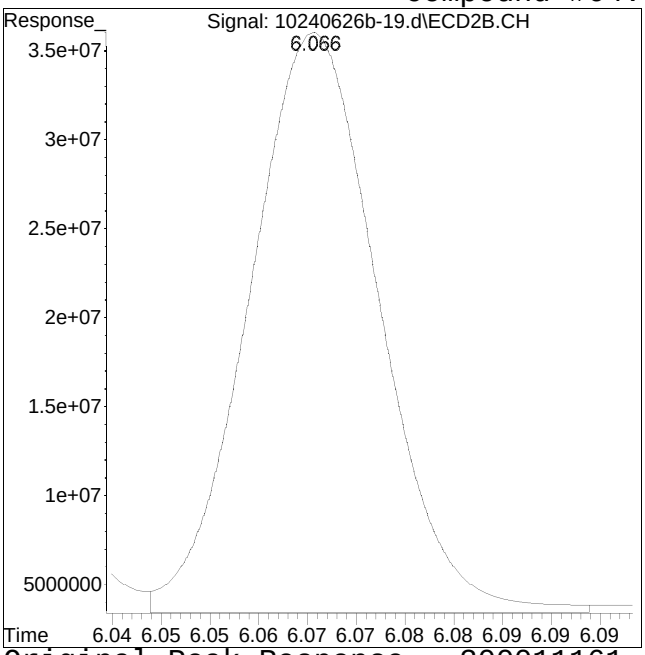


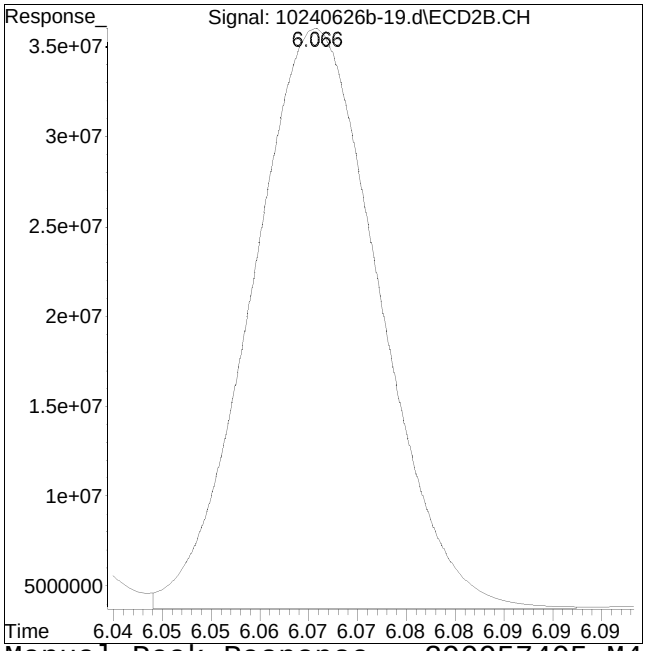
Original Peak Response = 1293437732 Manual Peak Response = 1242416002 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240626QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240626b-19.d Operator : PEST10:peg
Date Inj'd : 6/26/2024 20:29 Instrument : Pest 10
Sample : WG1939408-2,42,, Quant Date : 6/27/2024 6:55 am

Compound #64: Endrin Ketone #2



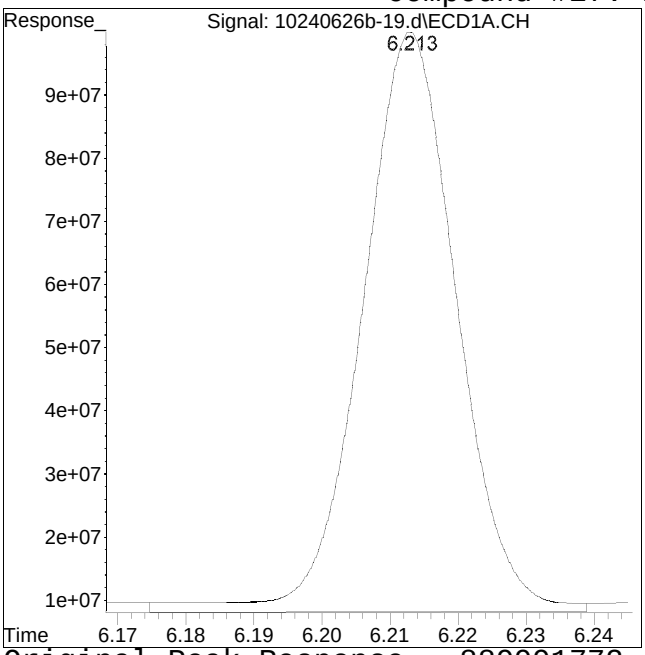


Original Peak Response = 300011161 Manual Peak Response = 290957405 M4
M4 = Poor automated baseline construction.

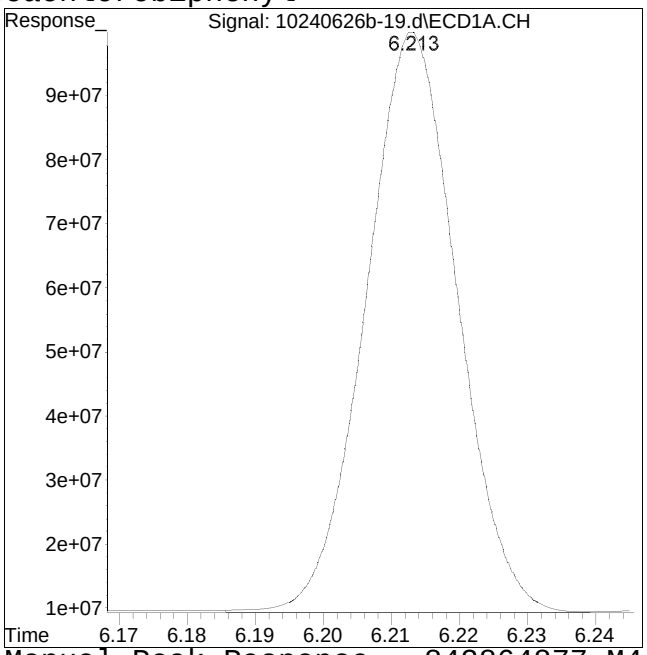
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240626QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240626b-19.d Operator : PEST10:peg
Date Inj'd : 6/26/2024 20:29 Instrument : Pest 10
Sample : WG1939408-2,42,, Quant Date : 6/27/2024 6:55 am

Compound #27: Decachlorobiphenyl



Original Peak Response = 889991772



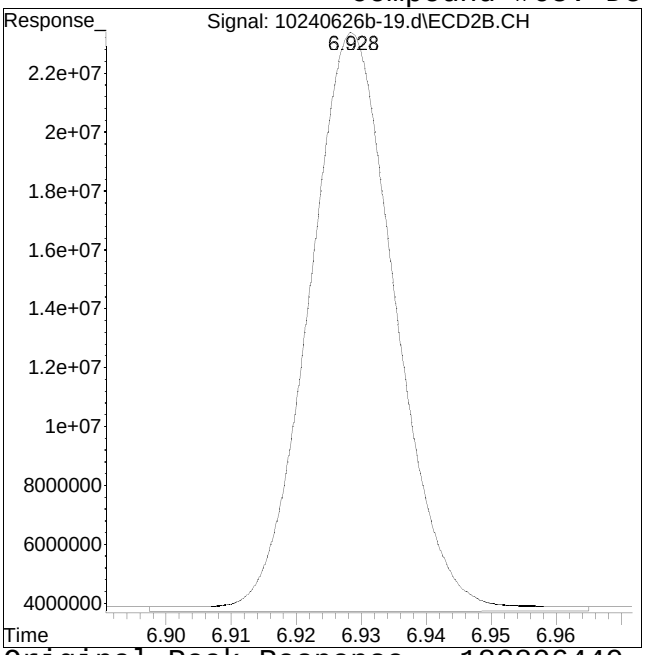
Manual Peak Response = 842864877 M4

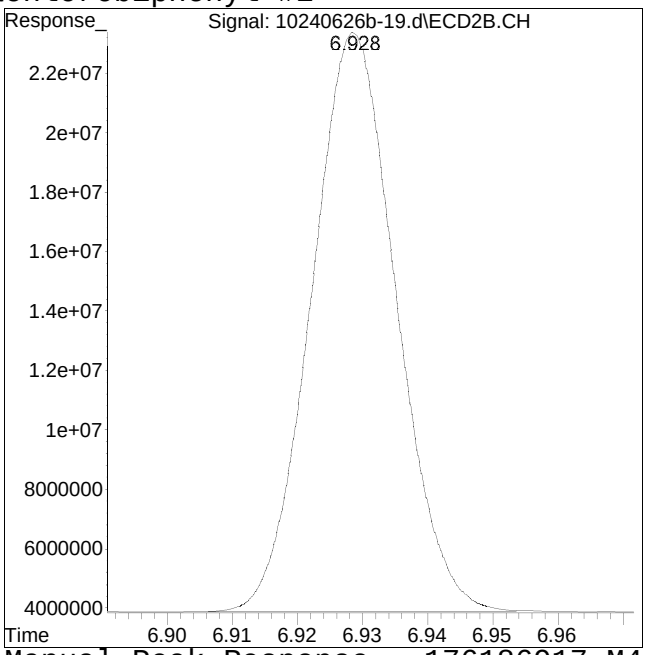
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240626QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240626b-19.d Operator : PEST10:peg
Date Inj'd : 6/26/2024 20:29 Instrument : Pest 10
Sample : WG1939408-2,42,, Quant Date : 6/27/2024 6:55 am

Compound #65: Decachlorobiphenyl #2





Original Peak Response = 182806440 Manual Peak Response = 176186917 M4
M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest10\2024\240624B\
Data File : 10240624b-15.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 24 Jun 2024 18:30
Operator : PEST10:emr
Sample : WG1938134-3,42,,
Misc : wg1938709,WG1938134,ical21109
ALS Vial : 15 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 25 08:57:55 2024
Quant Method : I:\PEST\Pest10\2024\240624B\pest10_2024_05_02_ugL_ical21109.m
Quant Title : pest
QLast Update : Mon Jun 24 18:30:48 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PEST\Pest10\2024\240624B\10240624b-03.d
Sub List : LCS_MS - spk only

	Compound		RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Internal Standards								
1)	i	1-br-2-nb_Pe	1.252	1.367	529.0E6	150.6E6	25.000	25.000
	Standard Area 1 : #1 = 521435419					Recovery = 101.45%		
	Standard Area 1 : #2 = 149552544					Recovery = 100.72%		
System Monitoring Compounds								
2)	s	2,4,5,6-Tetr	1.588	1.847	676.3E6	191.1E6	29.450M4	33.732
	Spiked Amount		50.000	Range 30 - 150		Recovery =	58.90%	67.46%
27)	s	Decachlorobi	6.219	6.931	736.6E6	178.2E6	42.952M4	40.777M4
	Spiked Amount		50.000	Range 30 - 150		Recovery =	85.90%	81.55%
Target Compounds								
4)	t	alpha-BHC	1.893	2.265	1158.0E6	302.2E6	36.234M4	37.469
5)	t	gamma-BHC (l	2.090	2.551	1075.0E6	285.3E6	35.491M4	37.666M4
6)	t	beta-BHC	2.145	2.615	463.4E6	129.4E6	38.214M4	38.907M4
7)	t	delta-BHC	2.270	2.883	1042.6E6	261.9E6	34.886M4	34.429M4
8)	t	Heptachlor	2.428	2.949	1106.4E6	275.2E6	38.464M4	36.586M4
9)	t	Aldrin	2.664	3.268	973.2E6	254.2E6	35.874M4	37.102
12)	t	Heptachlor E	3.197	3.885	956.7E6	237.3E6	37.019M4	34.647M4
13)	t	gamma-Chlord	3.319	4.106	967.1E6	263.0E6	40.908M4	43.158
14)	t	alpha-Chlord	3.452	4.278	870.6E6	250.4E6	32.420	36.541M3
15)	t	4,4'-DDE	3.548	4.477	948.3E6	251.1E6	37.289M4	39.627M4
16)	t	Endosulfan I	3.585	4.339	884.2E6	233.5E6	35.935M4	36.638M4
17)	t	Dieldrin	3.840	4.633	1031.7E6	262.2E6	40.626M4	41.102
18)	t	Endrin	4.092	4.931	1068.9E6	246.9E6	40.980M4	37.726M4
19)	t	4,4'-DDD	4.210	5.055	848.0E6	193.6E6	41.015M4	37.993M4
20)	t	Endosulfan I	4.343	5.130	901.2E6	226.8E6	40.032M4	39.566M4
21)	t	4,4'-DDT	4.513	5.332	886.5E6	219.9E6	38.748M4	38.031M4
22)	t	Endrin Aldeh	4.774	5.429	550.1E6	145.8E6	31.979M4	31.434

Data Path : I:\PEST\Pest10\2024\240624B\
Data File : 10240624b-15.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 24 Jun 2024 18:30
Operator : PEST10:emr
Sample : WG1938134-3,42,,
Misc : wg1938709,WG1938134,ical21109
ALS Vial : 15 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 25 08:57:55 2024
Quant Method : I:\PEST\Pest10\2024\240624B\pest10_2024_05_02_ugL_ical21109.m
Quant Title : pest
QLast Update : Mon Jun 24 18:30:48 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PEST\Pest10\2024\240624B\10240624b-03.d
Sub List : LCS_MS - spk only

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
23) t Methoxychlor	5.016	5.899	531.9E6	123.7E6	50.234M4	42.531M4
25) t Endosulfan S	5.175	5.657	855.2E6	208.4E6	38.306M4	36.479M4
26) t Endrin Keton	5.405	6.070	1005.6E6	240.9E6	41.067M4	38.706M4
Sum chlordane-1			0	0	N.D.	N.D.
Average chlordane-1					0.000	0.000
Sum toxaphene-1			0	0	N.D.	N.D.
Average toxaphene-1					0.000	0.000
SemiQuant Compounds - Not Calibrated on this Instrument						
Sum toxaphene-1			0	0	N.D.	N.D.
Average toxaphene-1					0.000	0.000

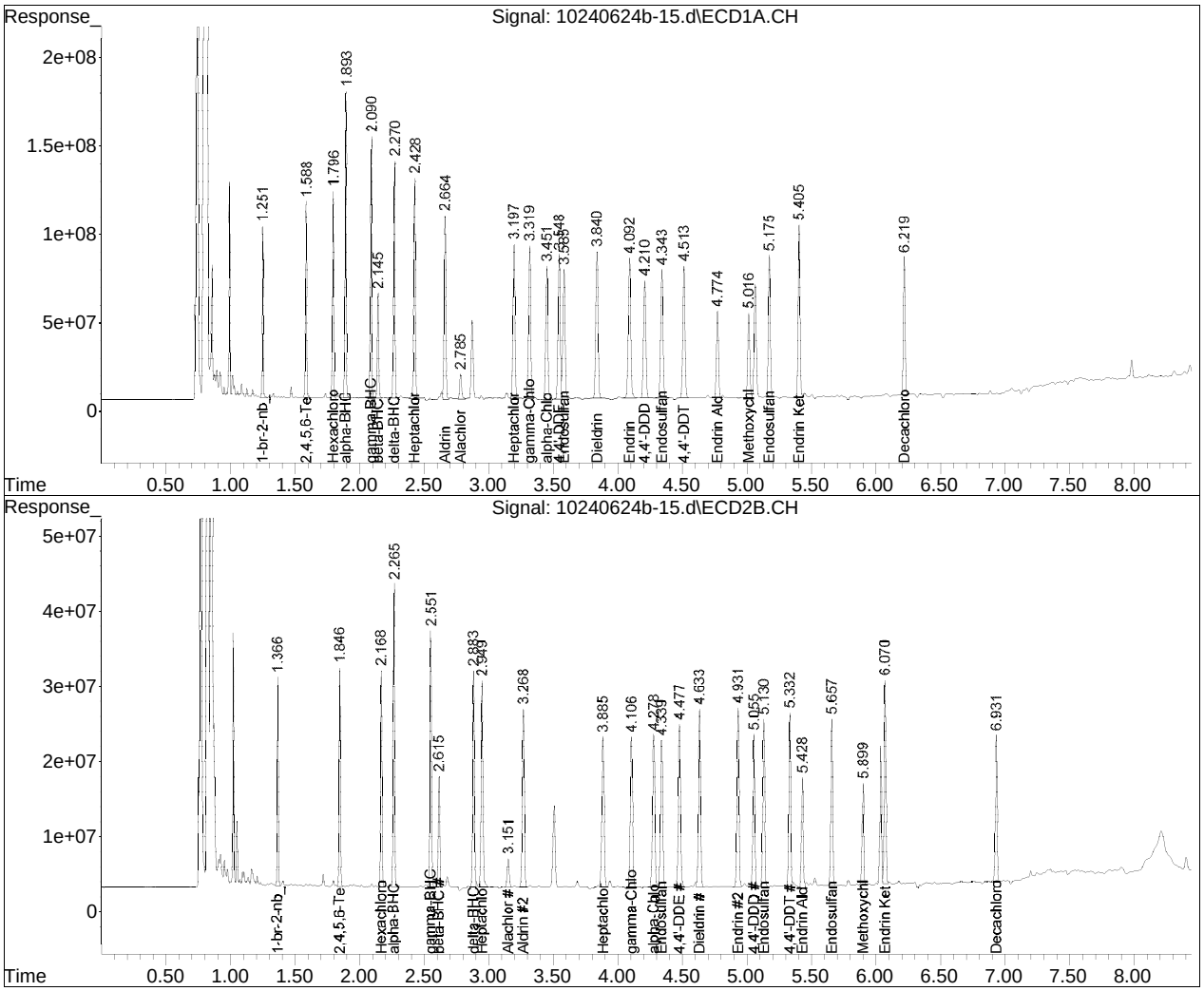
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : LCS_MS - spk only0\2024\240624B\10240624b-03.d•

Data Path : I:\PEST\Pest10\2024\240624B\
Data File : 10240624b-15.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 24 Jun 2024 18:30
Operator : PEST10:emr
Sample : WG1938134-3,42,,
Misc : wg1938709,WG1938134,ical21109
ALS Vial : 15 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 25 08:57:55 2024
Quant Method : I:\PEST\Pest10\2024\240624B\pest10_2024_05_02_ugL_ical21109.m
Quant Title : pest
QLast Update : Mon Jun 24 18:30:48 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

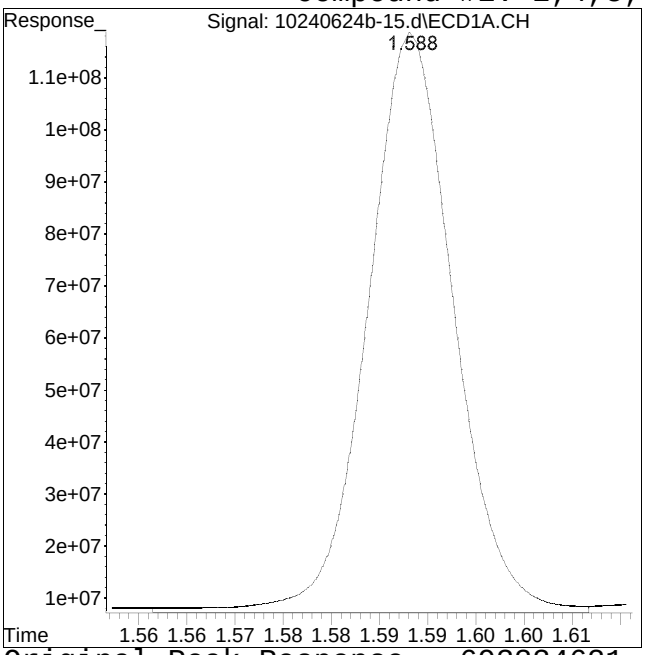
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



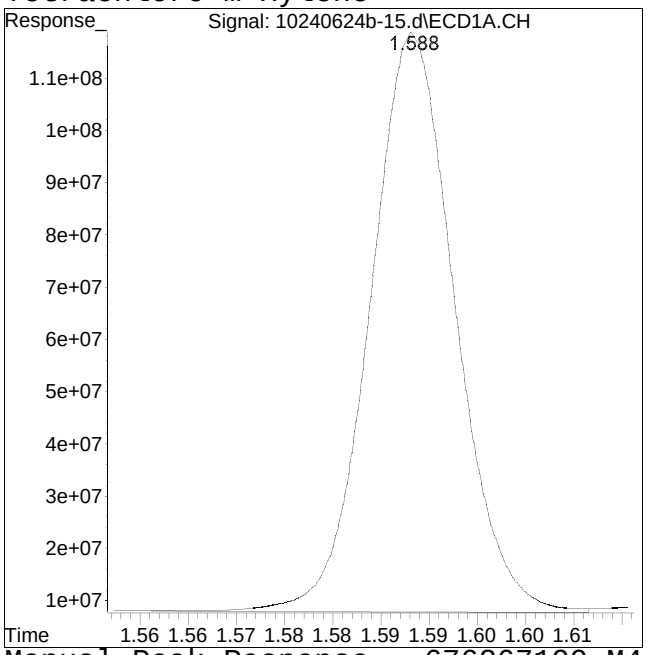
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240624QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240624b-15.d Operator : PEST10:emr
Date Inj'd : 6/24/2024 18:30 Instrument : Pest 10
Sample : WG1938134-3,42,, Quant Date : 6/25/2024 8:57 am

Compound #2: 2,4,5,6-Tetrachloro-m-xylene



Original Peak Response = 693334621



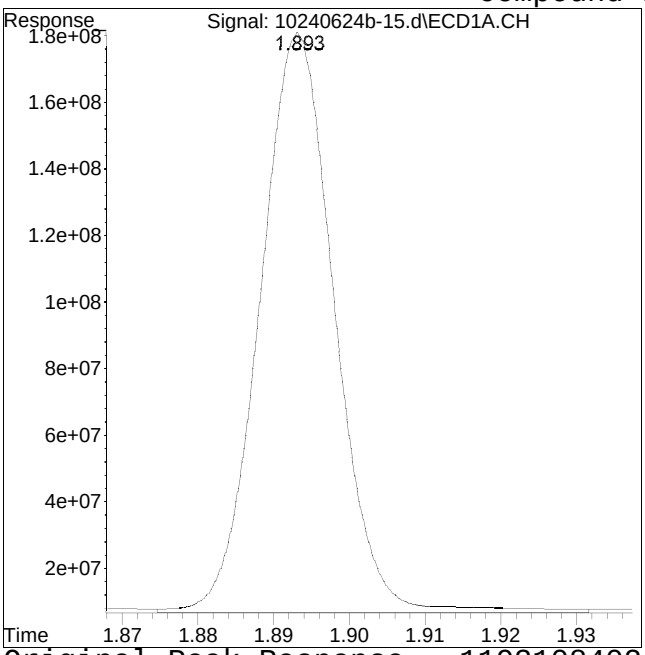
Manual Peak Response = 676267190 M4

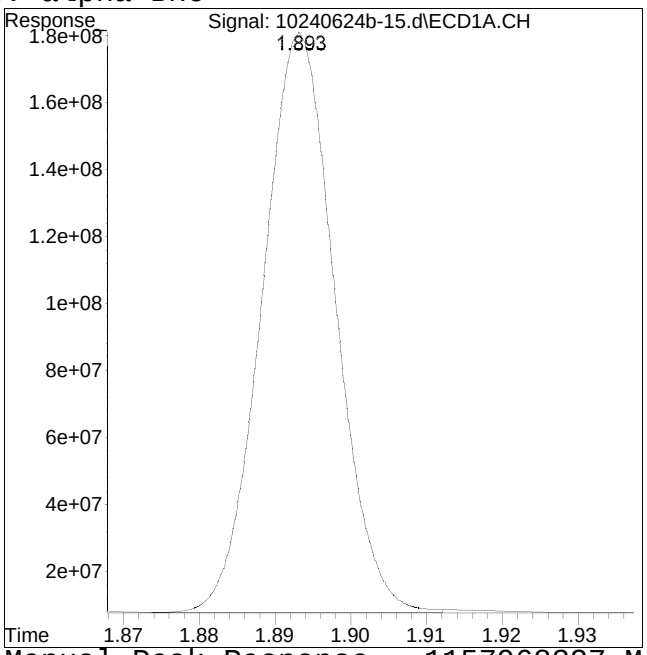
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240624QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240624b-15.d Operator : PEST10:emr
Date Inj'd : 6/24/2024 18:30 Instrument : Pest 10
Sample : WG1938134-3,42,, Quant Date : 6/25/2024 8:57 am

Compound #4: alpha-BHC



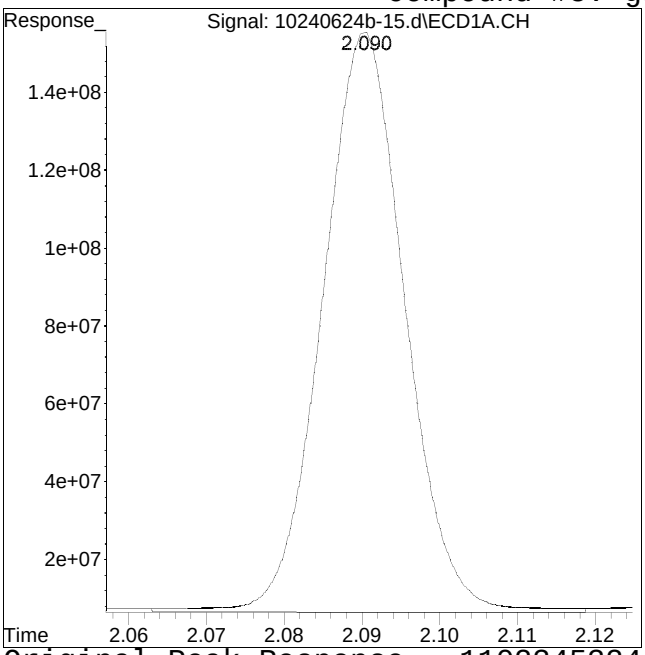


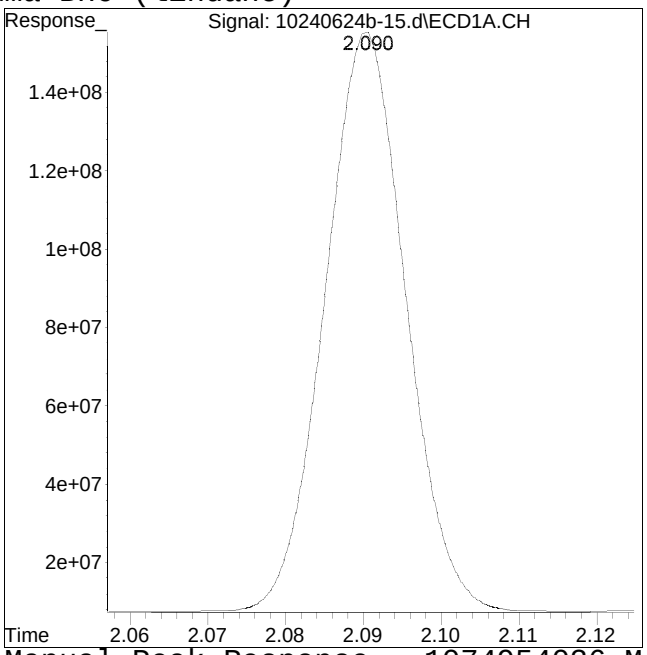
Original Peak Response = 1193108402 Manual Peak Response = 1157968327 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240624QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240624b-15.d Operator : PEST10:emr
Date Inj'd : 6/24/2024 18:30 Instrument : Pest 10
Sample : WG1938134-3,42,, Quant Date : 6/25/2024 8:57 am

Compound #5: gamma-BHC (lindane)



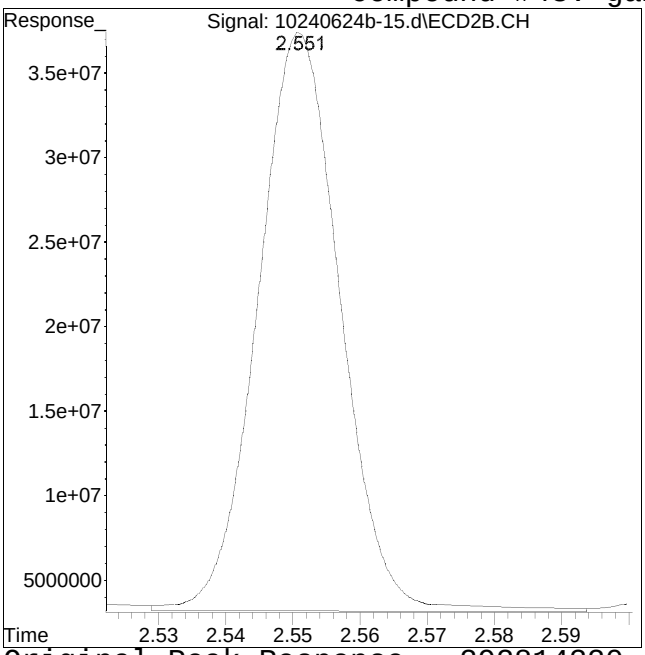


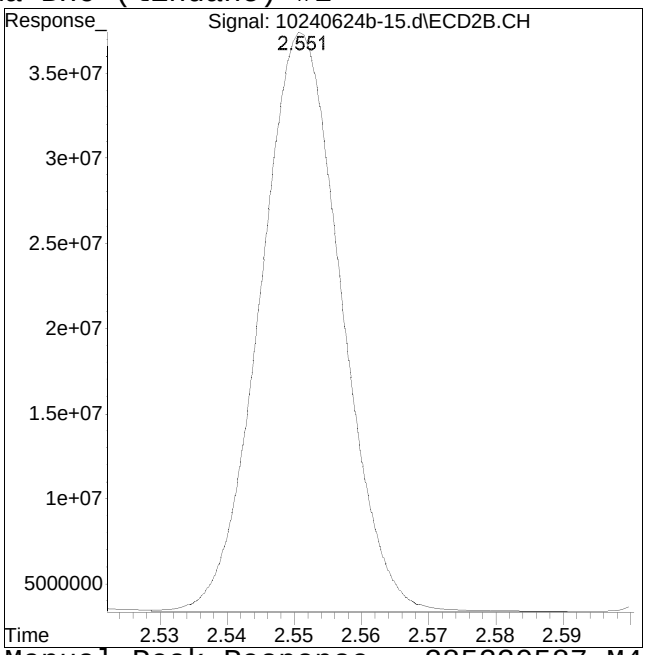
Original Peak Response = 1102345324 Manual Peak Response = 1074954036 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240624QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240624b-15.d Operator : PEST10:emr
Date Inj'd : 6/24/2024 18:30 Instrument : Pest 10
Sample : WG1938134-3,42,, Quant Date : 6/25/2024 8:57 am

Compound #43: gamma-BHC (lindane) #2



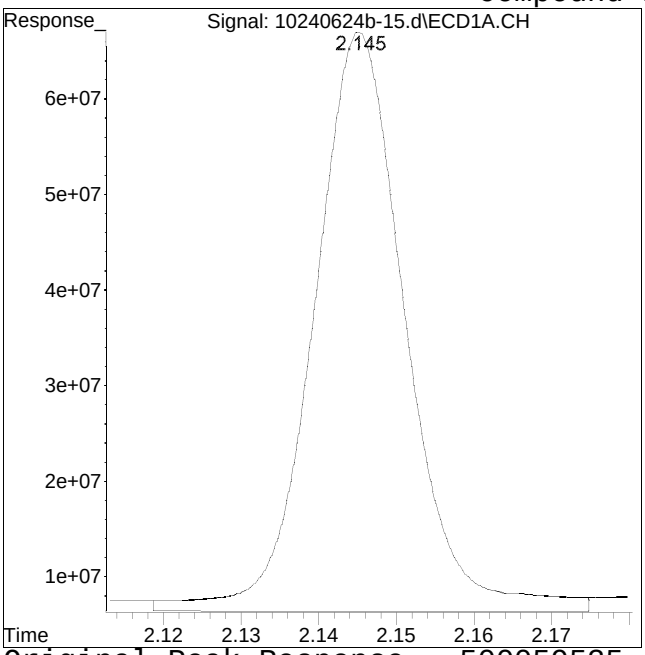


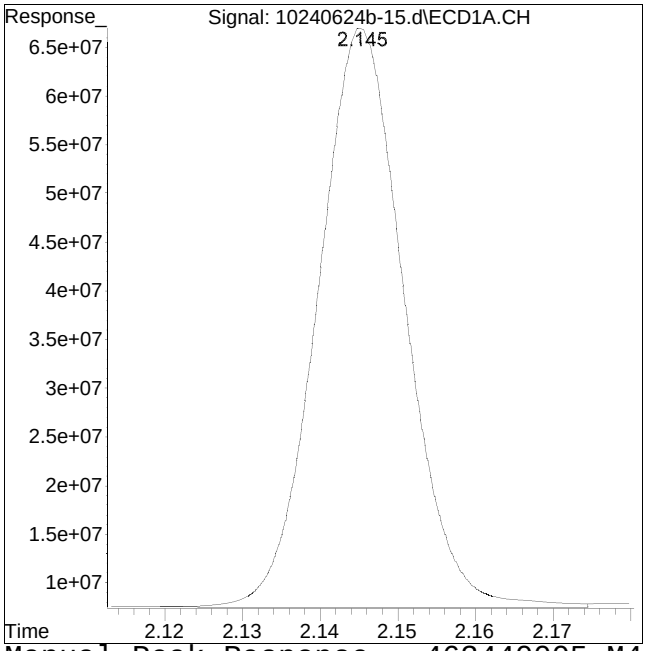
Original Peak Response = 292814320 Manual Peak Response = 285330587 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240624QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240624b-15.d Operator : PEST10:emr
Date Inj'd : 6/24/2024 18:30 Instrument : Pest 10
Sample : WG1938134-3,42,, Quant Date : 6/25/2024 8:57 am

Compound #6: beta-BHC



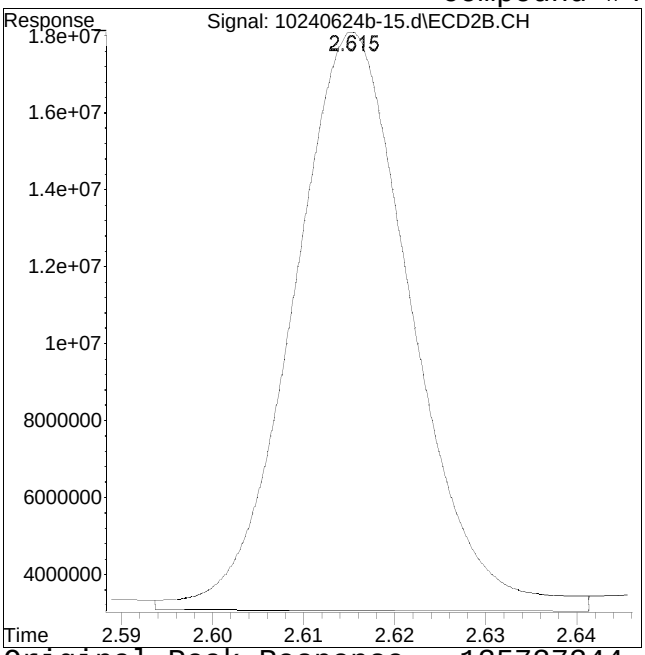


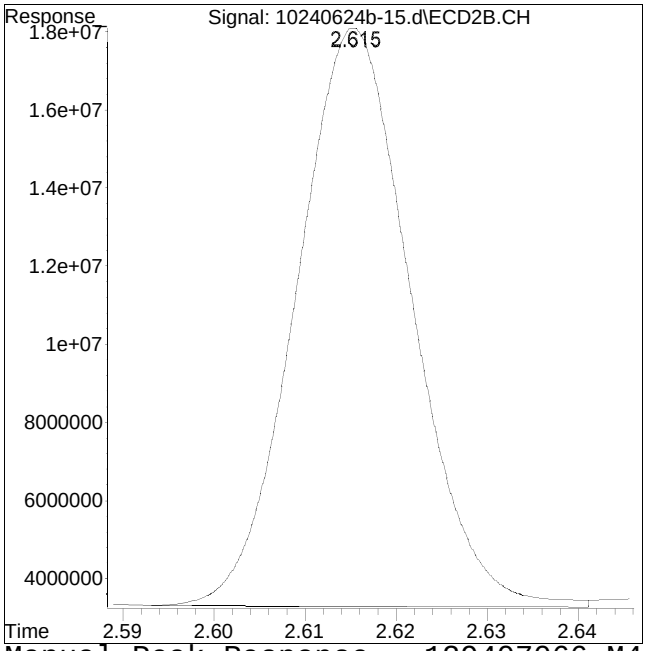
Original Peak Response = 500059535 Manual Peak Response = 463440005 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240624QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240624b-15.d Operator : PEST10:emr
Date Inj'd : 6/24/2024 18:30 Instrument : Pest 10
Sample : WG1938134-3,42,, Quant Date : 6/25/2024 8:57 am

Compound #44: beta-BHC #2



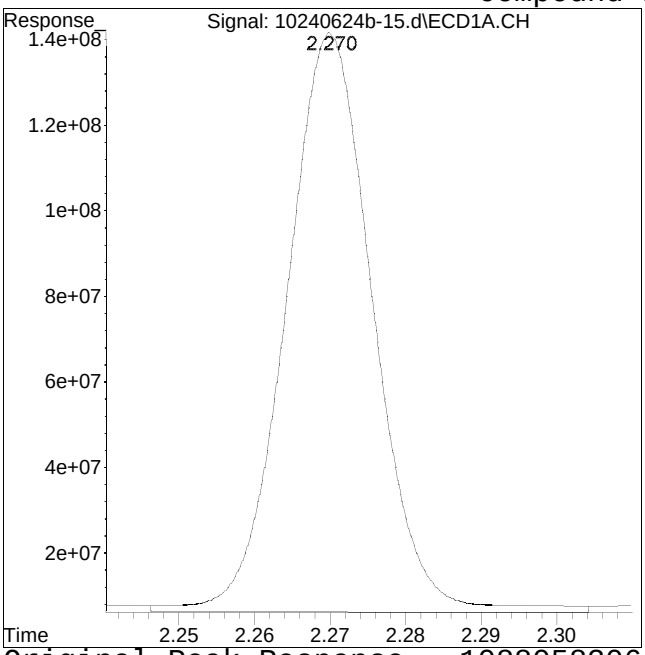


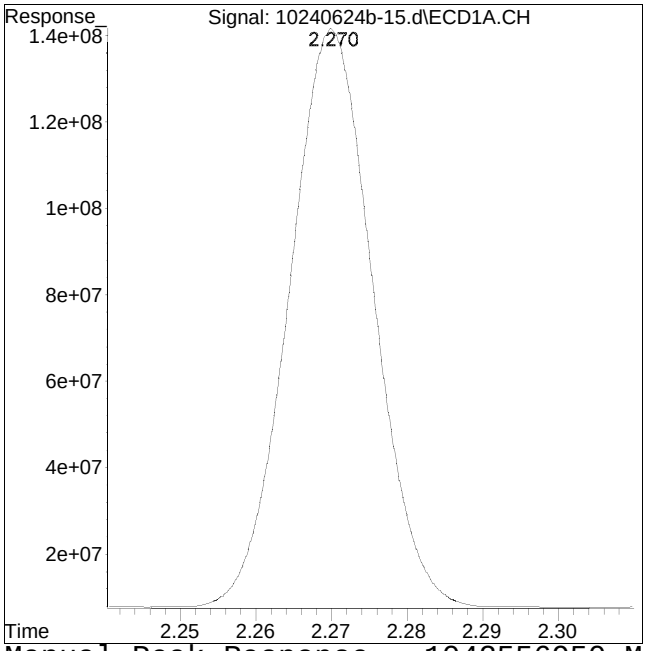
Original Peak Response = 135737344 Manual Peak Response = 129407066 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240624QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240624b-15.d Operator : PEST10:emr
Date Inj'd : 6/24/2024 18:30 Instrument : Pest 10
Sample : WG1938134-3,42,, Quant Date : 6/25/2024 8:57 am

Compound #7: delta-BHC



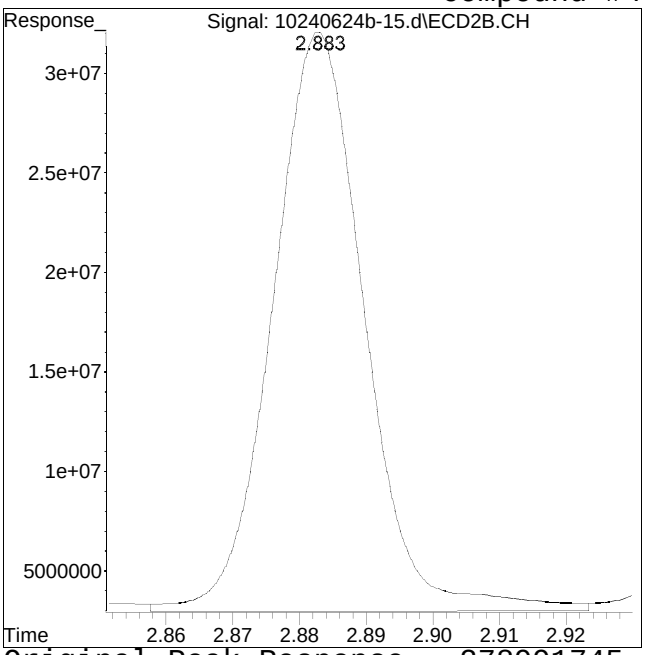


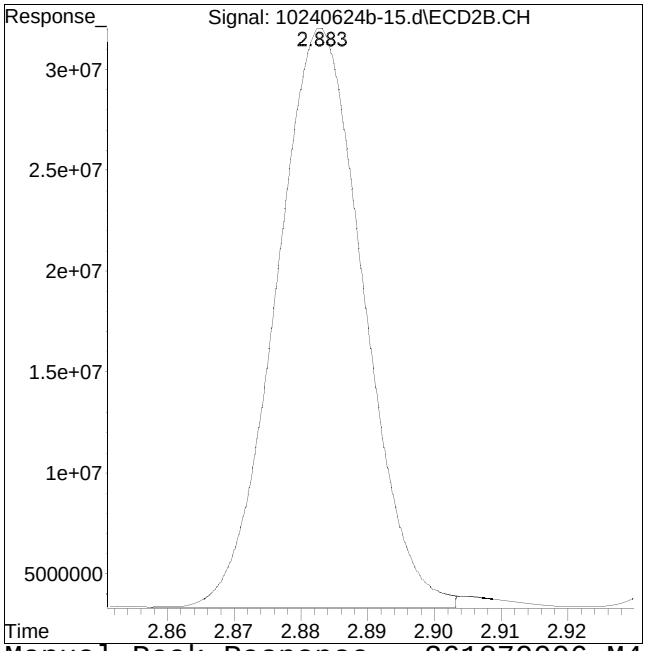
Original Peak Response = 1088058306 Manual Peak Response = 1042556950 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240624QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240624b-15.d Operator : PEST10:emr
Date Inj'd : 6/24/2024 18:30 Instrument : Pest 10
Sample : WG1938134-3,42,, Quant Date : 6/25/2024 8:57 am

Compound #45: delta-BHC #2



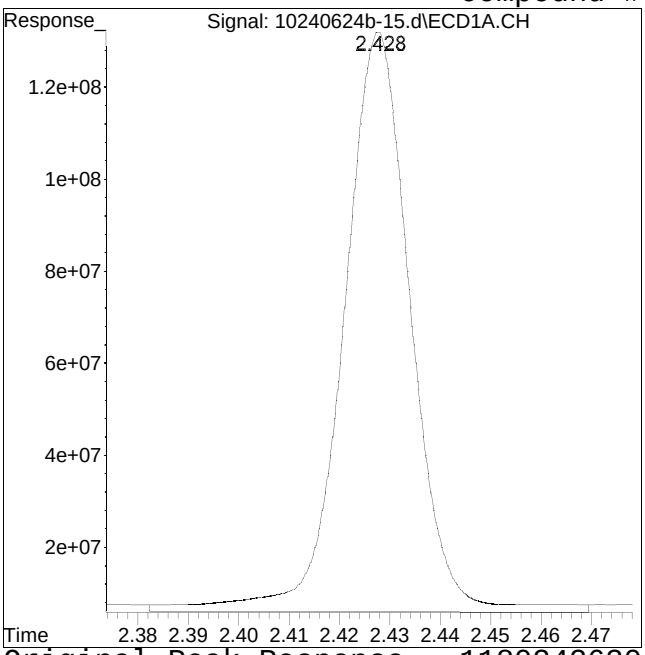


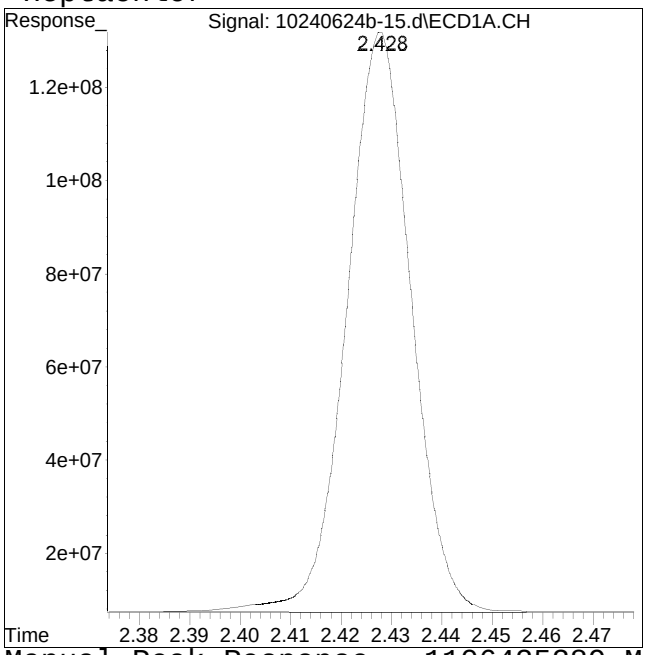
Original Peak Response = 278991745 Manual Peak Response = 261870006 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240624QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240624b-15.d Operator : PEST10:emr
Date Inj'd : 6/24/2024 18:30 Instrument : Pest 10
Sample : WG1938134-3,42,, Quant Date : 6/25/2024 8:57 am

Compound #8: Heptachlor



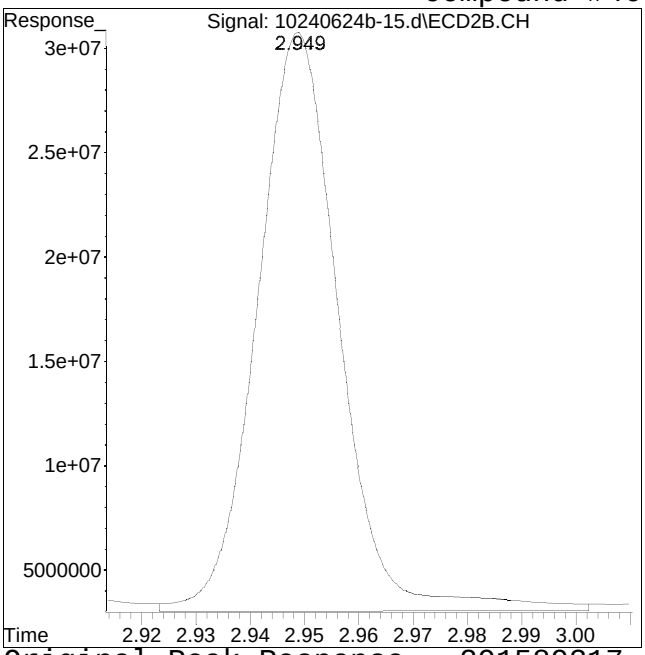


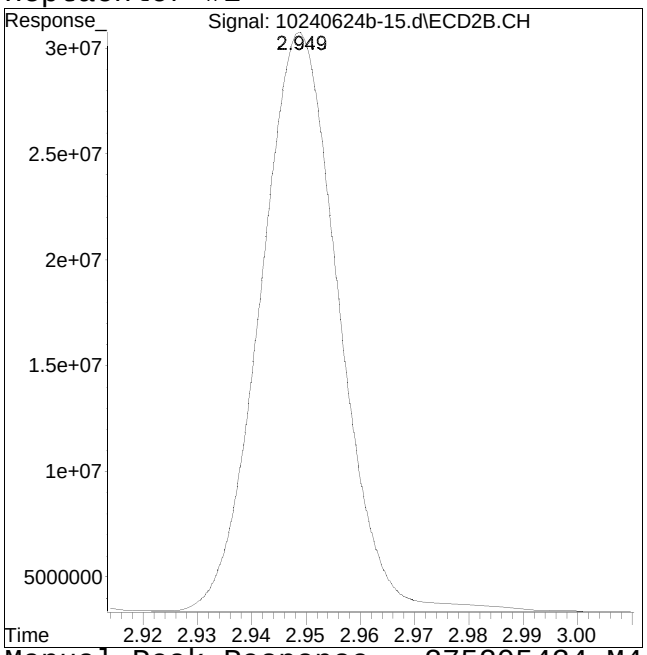
Original Peak Response = 1180242630 Manual Peak Response = 1106425289 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240624QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240624b-15.d Operator : PEST10:emr
Date Inj'd : 6/24/2024 18:30 Instrument : Pest 10
Sample : WG1938134-3,42,, Quant Date : 6/25/2024 8:57 am

Compound #46: Heptachlor #2



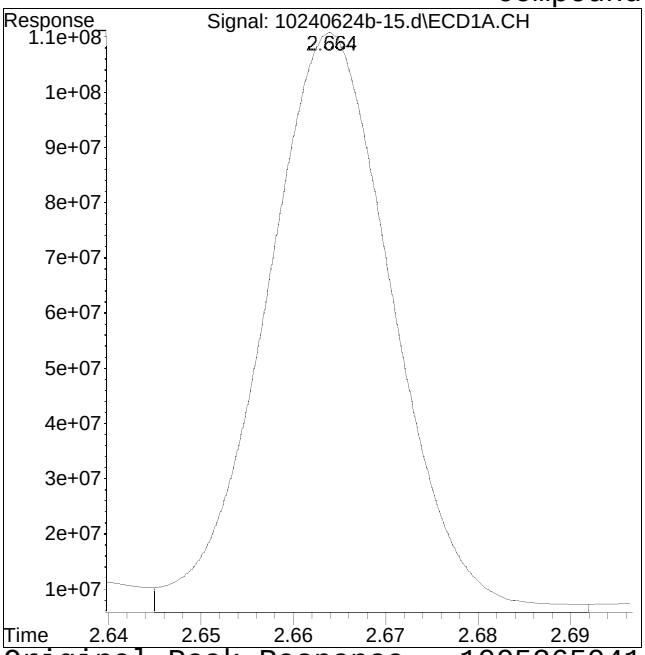


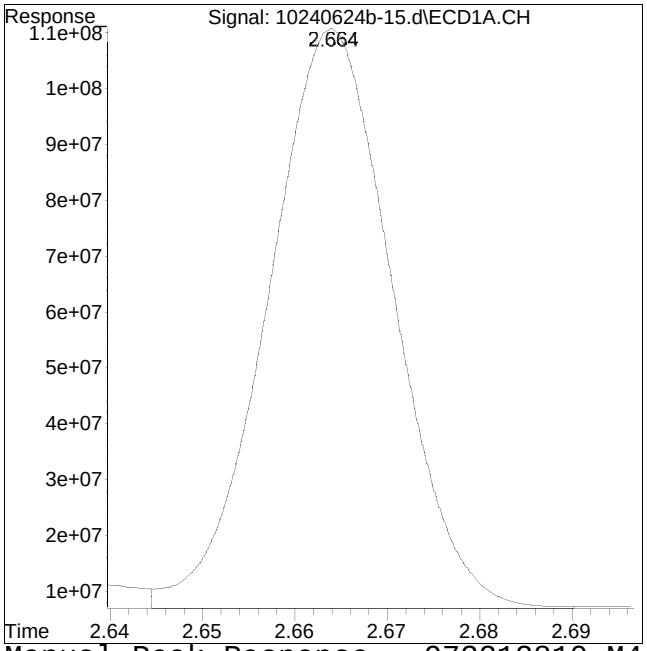
Original Peak Response = 291589317 Manual Peak Response = 275205434 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240624QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240624b-15.d Operator : PEST10:emr
Date Inj'd : 6/24/2024 18:30 Instrument : Pest 10
Sample : WG1938134-3,42,, Quant Date : 6/25/2024 8:57 am

Compound #9: Aldrin



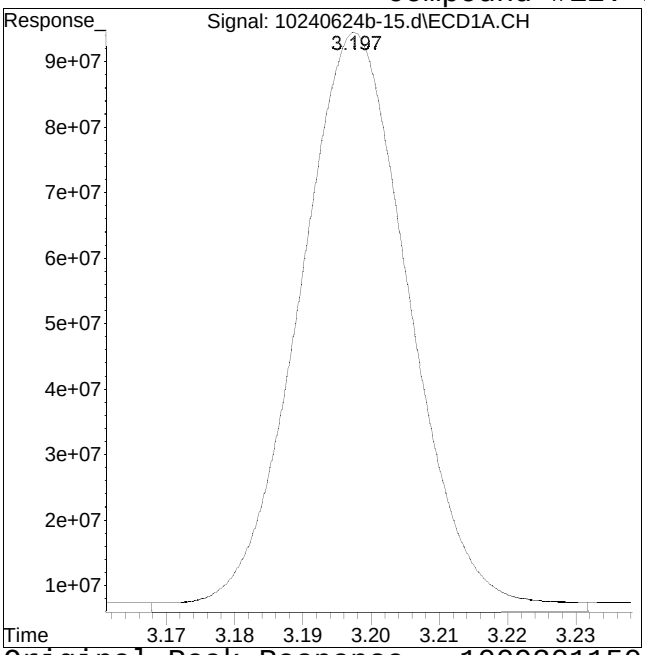


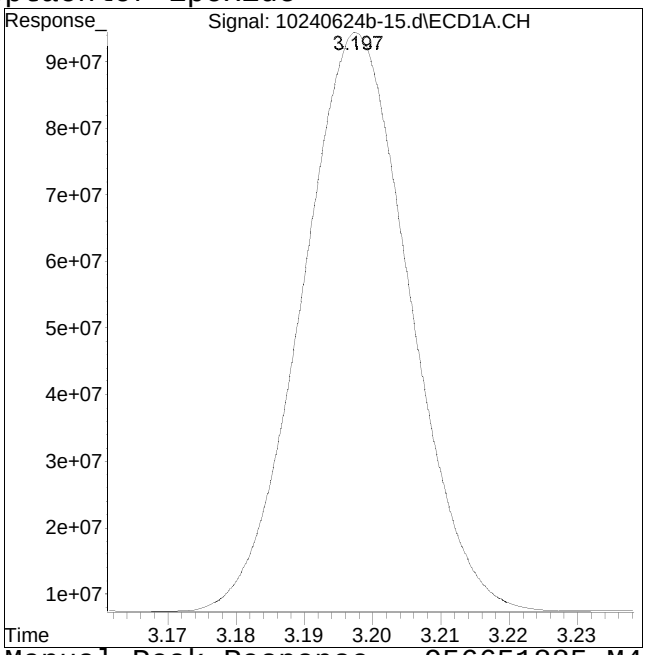
Original Peak Response = 1005265041 Manual Peak Response = 973212810 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240624QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240624b-15.d Operator : PEST10:emr
Date Inj'd : 6/24/2024 18:30 Instrument : Pest 10
Sample : WG1938134-3,42,, Quant Date : 6/25/2024 8:57 am

Compound #12: Heptachlor Epoxide



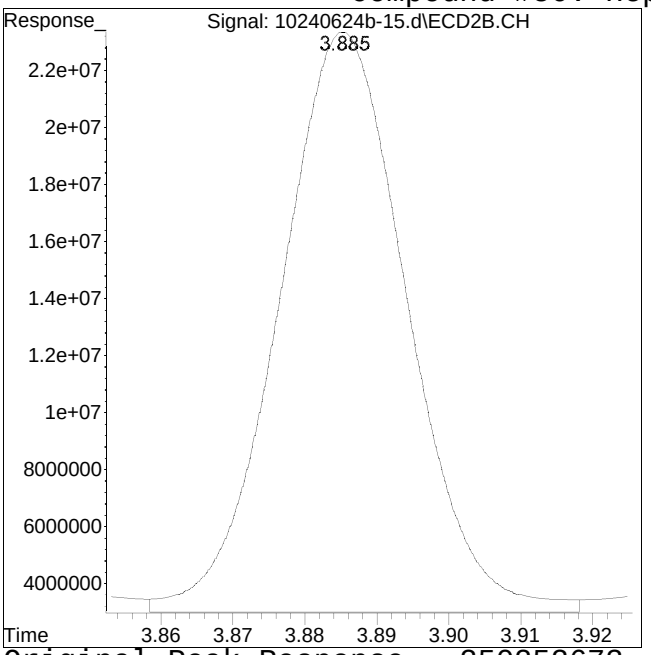


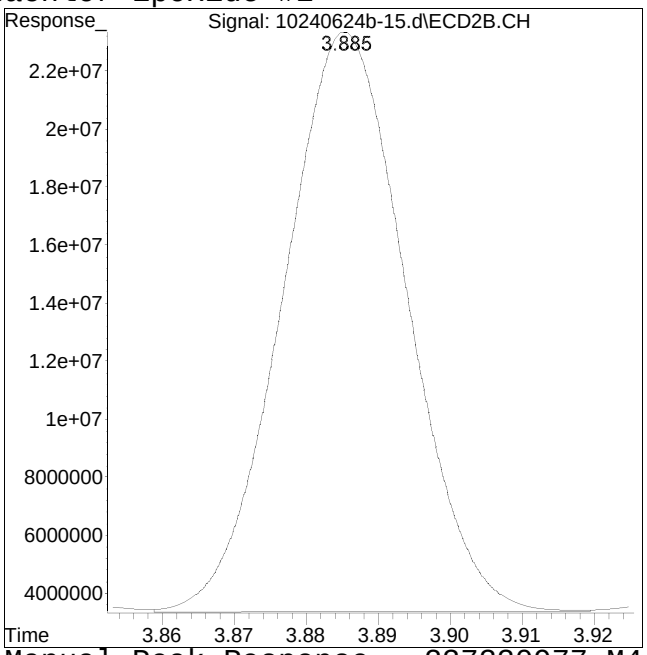
Original Peak Response = 1009301150 Manual Peak Response = 956651885 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240624QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240624b-15.d Operator : PEST10:emr
Date Inj'd : 6/24/2024 18:30 Instrument : Pest 10
Sample : WG1938134-3,42,, Quant Date : 6/25/2024 8:57 am

Compound #50: Heptachlor Epoxide #2



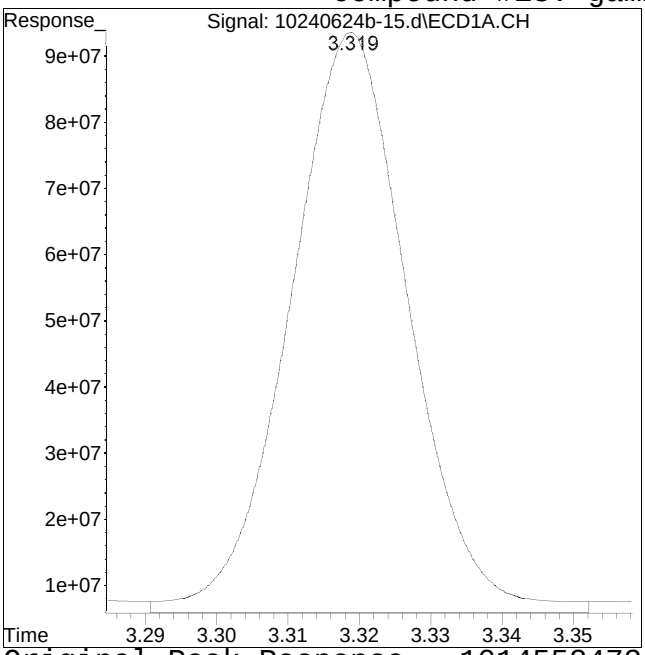


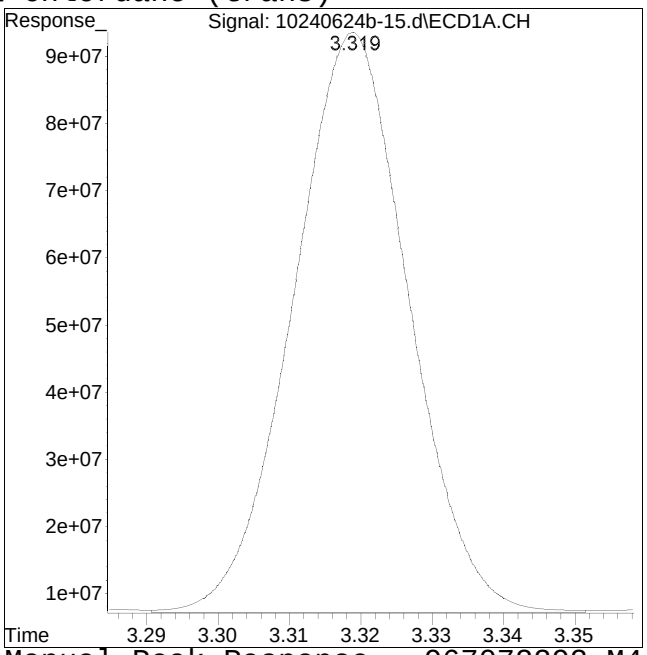
Original Peak Response = 250252673 Manual Peak Response = 237330977 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240624QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240624b-15.d Operator : PEST10:emr
Date Inj'd : 6/24/2024 18:30 Instrument : Pest 10
Sample : WG1938134-3,42,, Quant Date : 6/25/2024 8:57 am

Compound #13: gamma-Chlordane (trans)



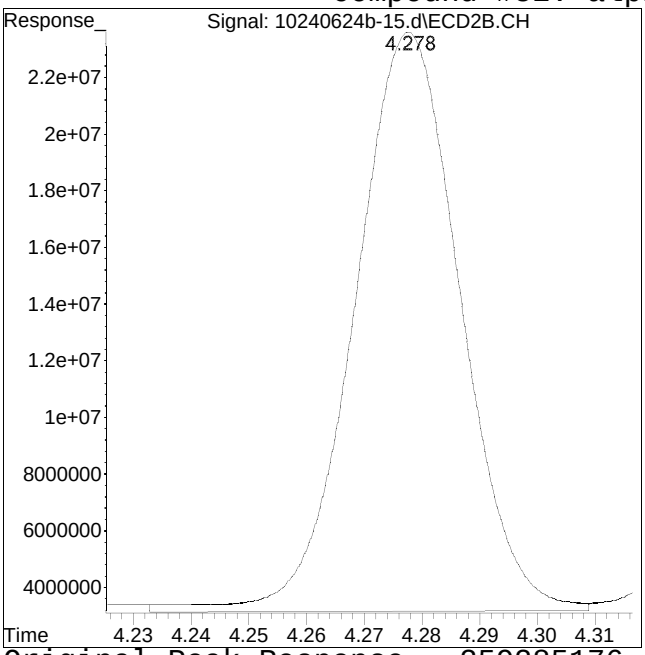


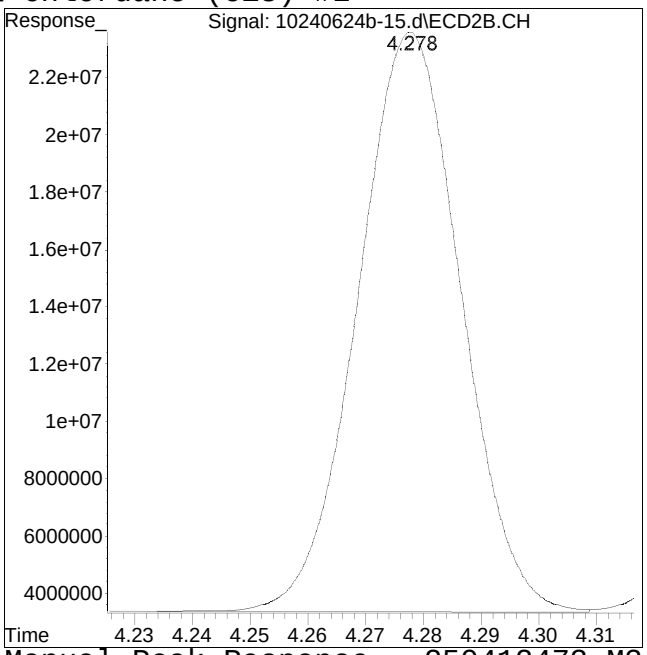
Original Peak Response = 1014552473 Manual Peak Response = 967072292 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240624QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240624b-15.d Operator : PEST10:emr
Date Inj'd : 6/24/2024 18:30 Instrument : Pest 10
Sample : WG1938134-3,42,, Quant Date : 6/25/2024 8:57 am

Compound #52: alpha-Chlordane (cis) #2



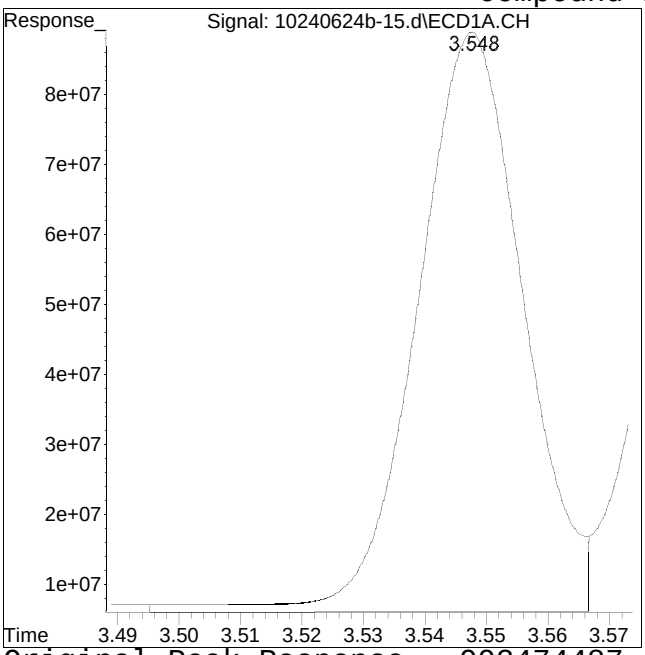


Original Peak Response = 259285176 Manual Peak Response = 250412473 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

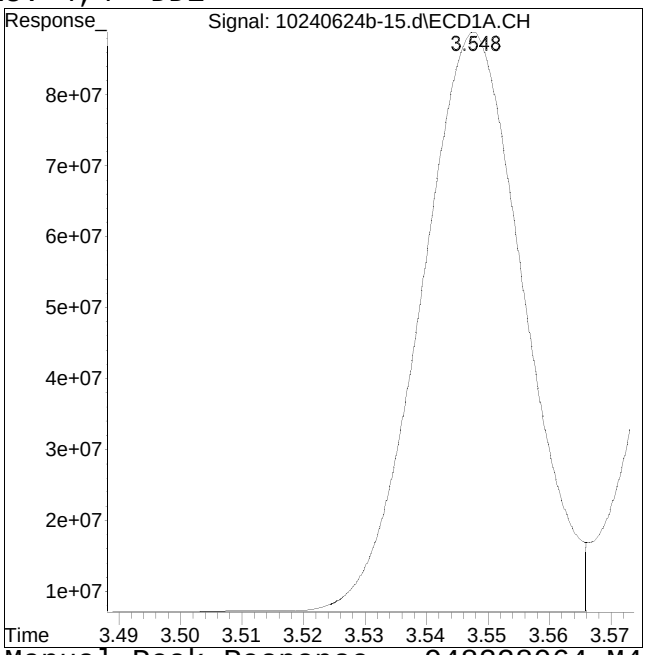
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240624QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240624b-15.d Operator : PEST10:emr
Date Inj'd : 6/24/2024 18:30 Instrument : Pest 10
Sample : WG1938134-3,42,, Quant Date : 6/25/2024 8:57 am

Compound #15: 4,4'-DDE



Original Peak Response = 993474487



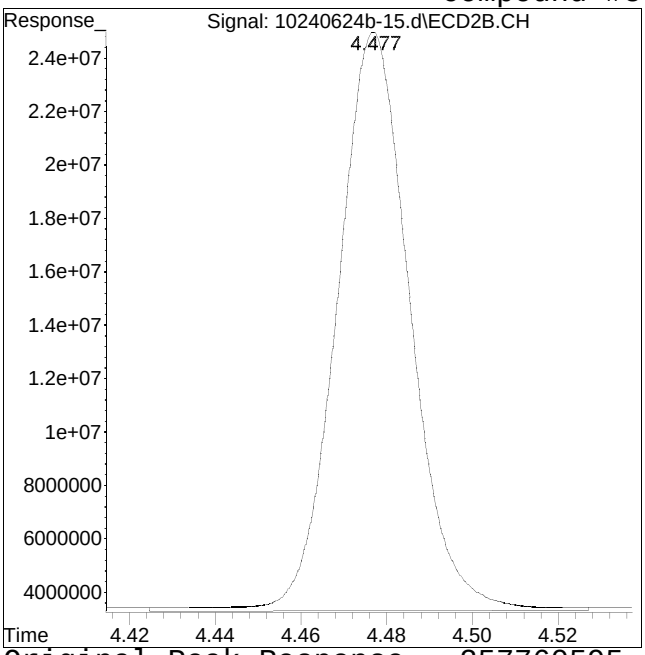
Manual Peak Response = 948328064 M4

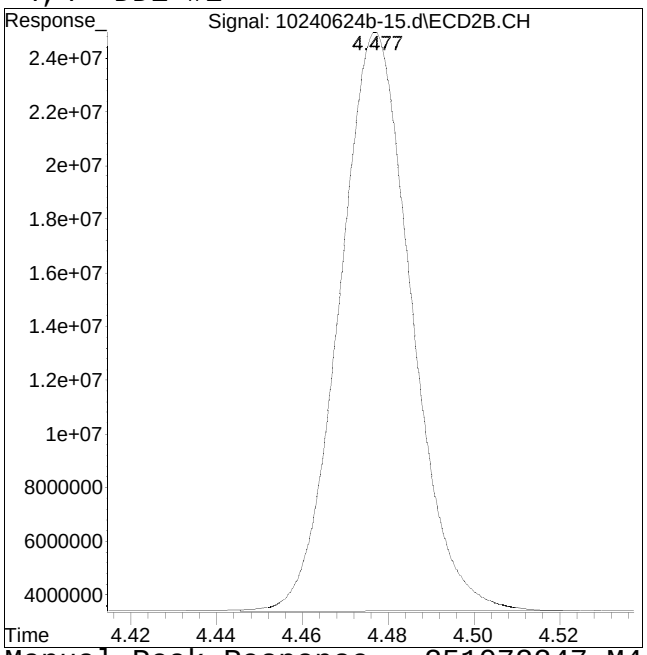
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240624QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240624b-15.d Operator : PEST10:emr
Date Inj'd : 6/24/2024 18:30 Instrument : Pest 10
Sample : WG1938134-3,42,, Quant Date : 6/25/2024 8:57 am

Compound #53: 4,4'-DDE #2



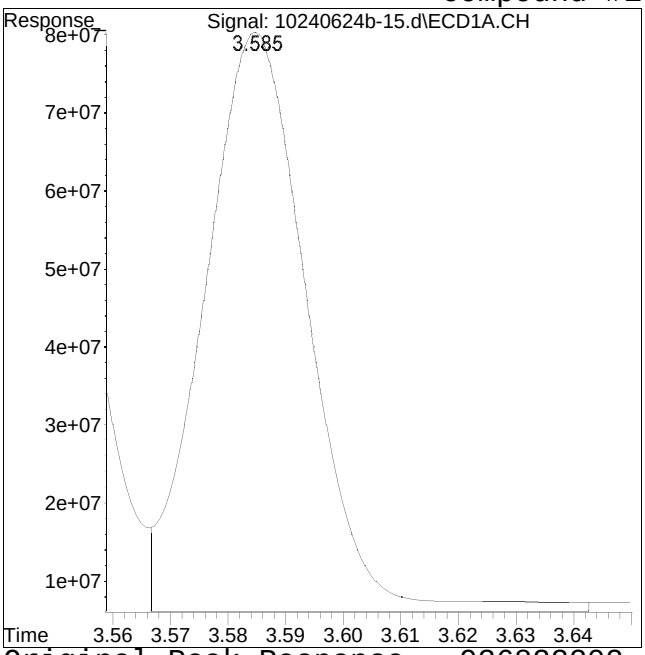


Original Peak Response = 257760595 Manual Peak Response = 251072247 M4
M4 = Poor automated baseline construction.

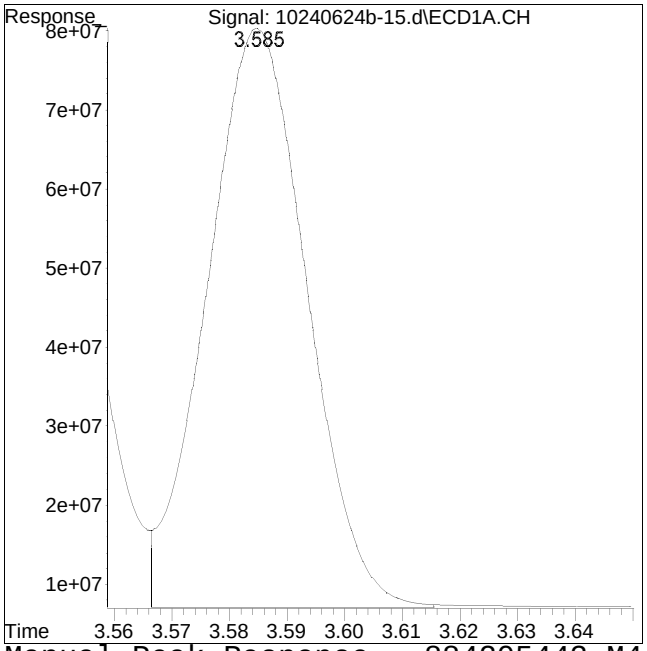
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240624QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240624b-15.d Operator : PEST10:emr
Date Inj'd : 6/24/2024 18:30 Instrument : Pest 10
Sample : WG1938134-3,42,, Quant Date : 6/25/2024 8:57 am

Compound #16: Endosulfan I



Original Peak Response = 936822202



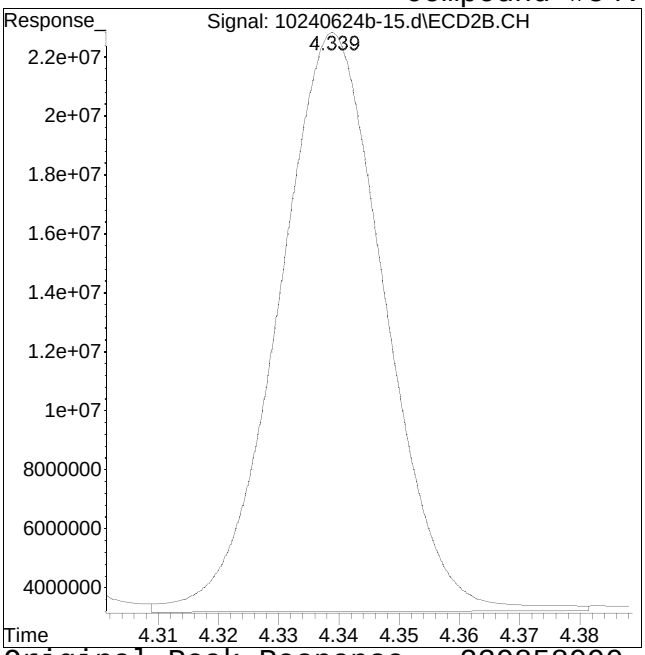
Manual Peak Response = 884205443 M4

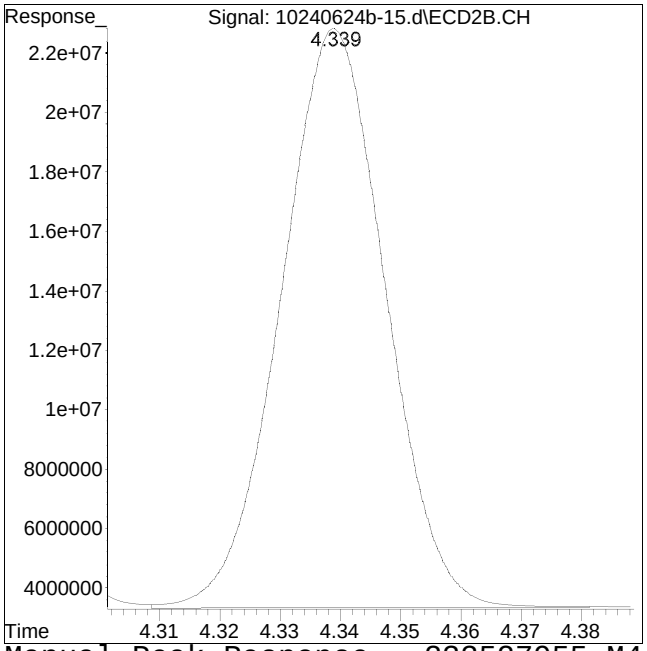
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240624QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240624b-15.d Operator : PEST10:emr
Date Inj'd : 6/24/2024 18:30 Instrument : Pest 10
Sample : WG1938134-3,42,, Quant Date : 6/25/2024 8:57 am

Compound #54: Endosulfan I #2



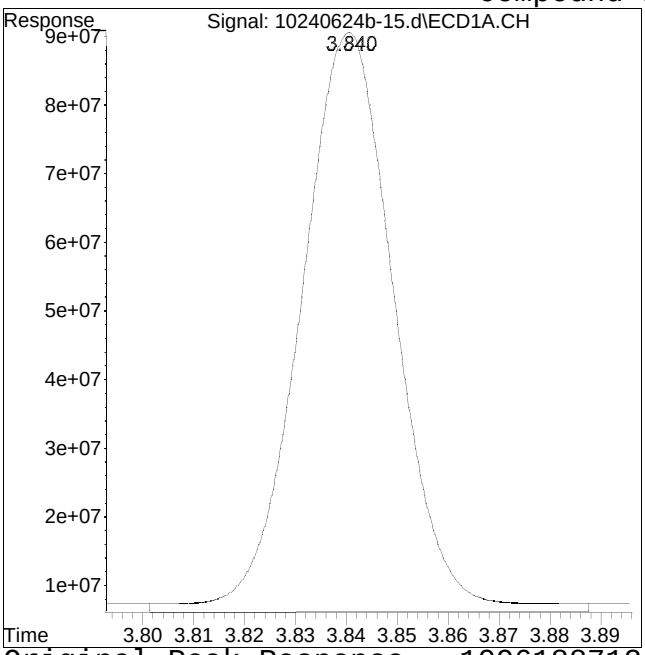


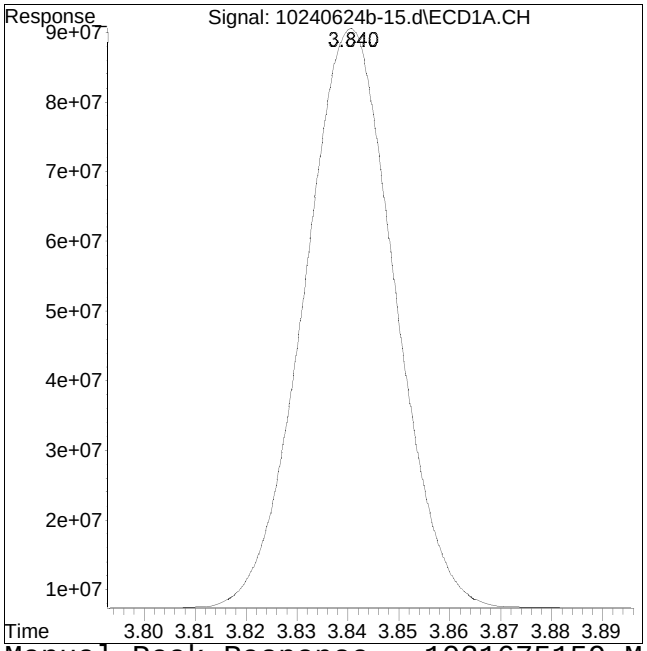
Original Peak Response = 239858990 Manual Peak Response = 233527955 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240624QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240624b-15.d Operator : PEST10:emr
Date Inj'd : 6/24/2024 18:30 Instrument : Pest 10
Sample : WG1938134-3,42,, Quant Date : 6/25/2024 8:57 am

Compound #17: Dieldrin



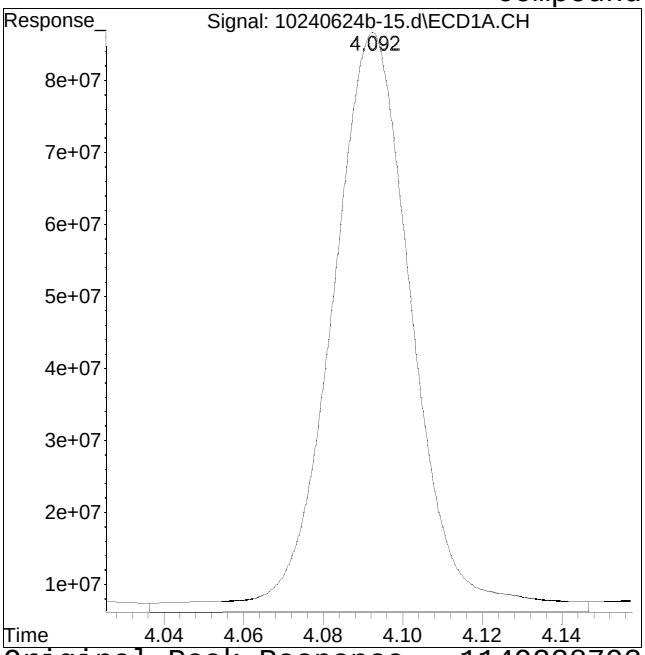


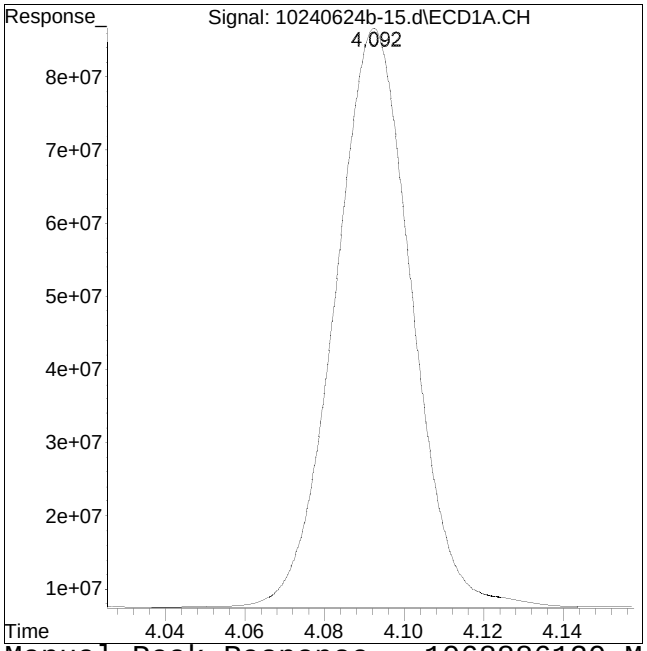
Original Peak Response = 1096188712 Manual Peak Response = 1031675159 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240624QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240624b-15.d Operator : PEST10:emr
Date Inj'd : 6/24/2024 18:30 Instrument : Pest 10
Sample : WG1938134-3,42,, Quant Date : 6/25/2024 8:57 am

Compound #18: Endrin



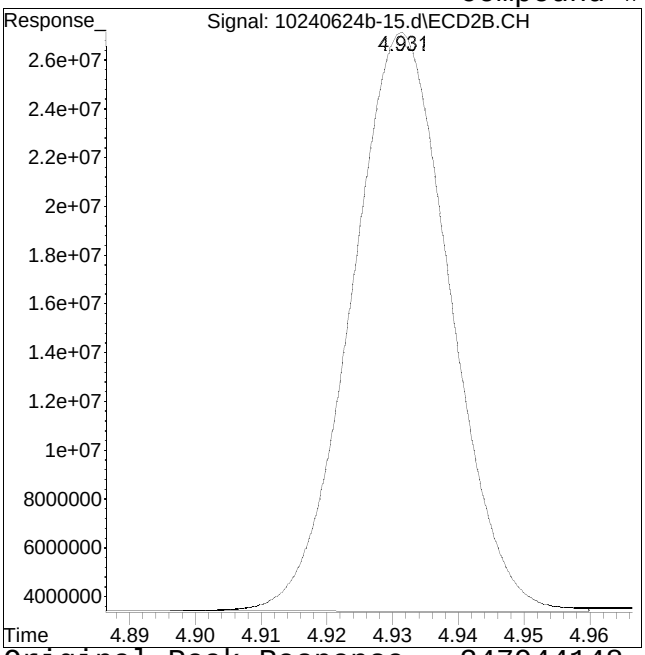


Original Peak Response = 1149228793 Manual Peak Response = 1068886120 M4
M4 = Poor automated baseline construction.

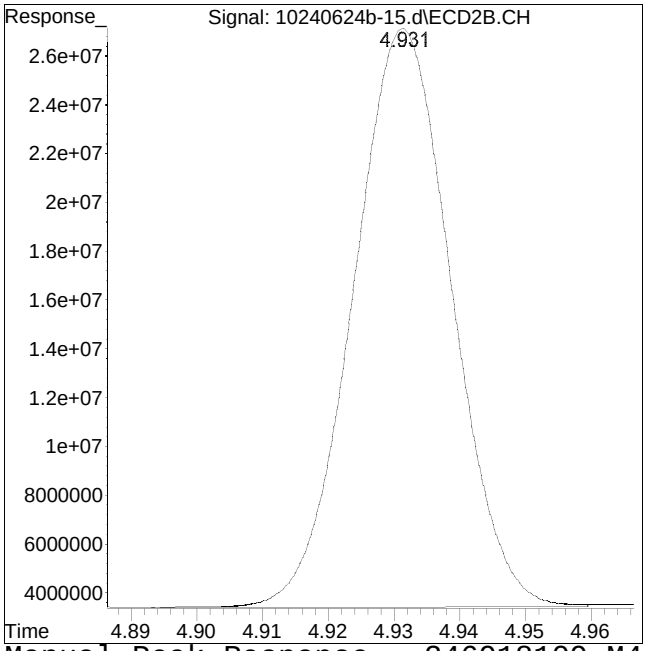
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240624QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240624b-15.d Operator : PEST10:emr
Date Inj'd : 6/24/2024 18:30 Instrument : Pest 10
Sample : WG1938134-3,42,, Quant Date : 6/25/2024 8:57 am

Compound #56: Endrin #2



Original Peak Response = 247944148



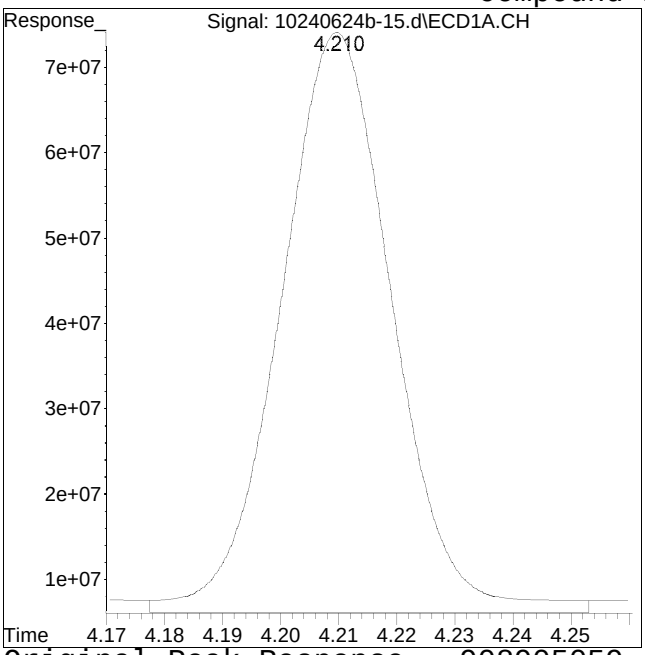
Manual Peak Response = 246918109 M4

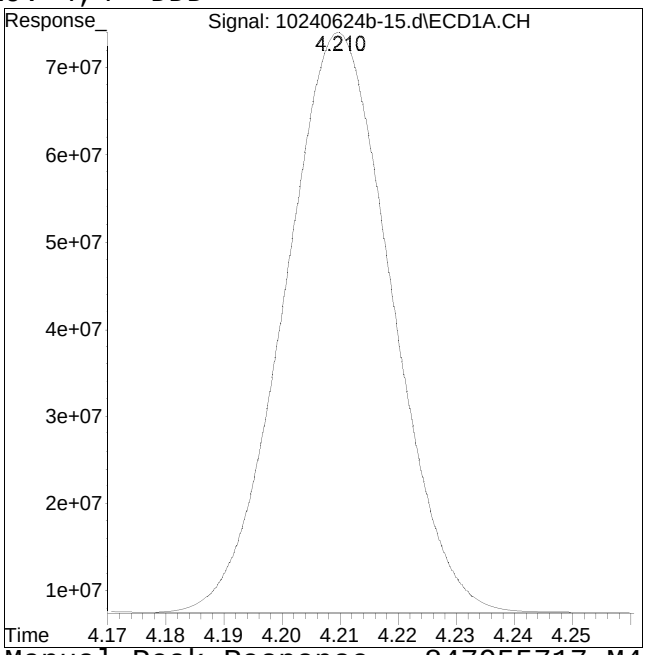
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240624QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240624b-15.d Operator : PEST10:emr
Date Inj'd : 6/24/2024 18:30 Instrument : Pest 10
Sample : WG1938134-3,42,, Quant Date : 6/25/2024 8:57 am

Compound #19: 4,4'-DDD



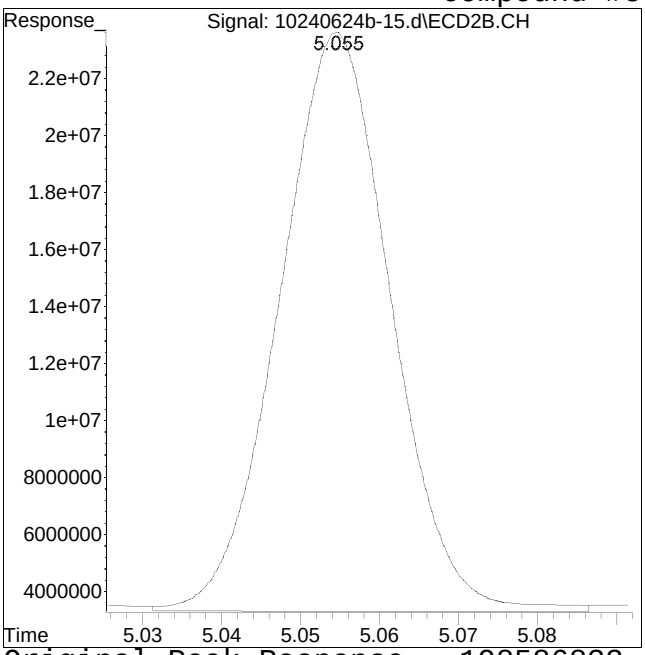


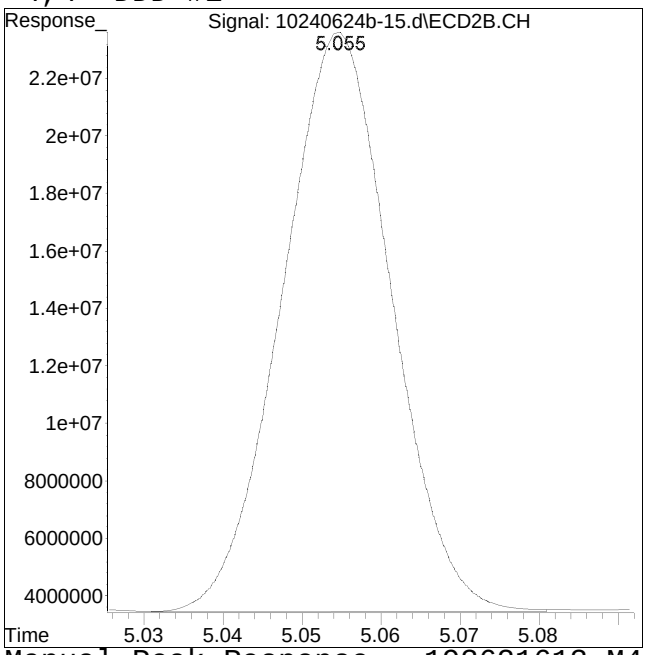
Original Peak Response = 908905059 Manual Peak Response = 847955717 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240624QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240624b-15.d Operator : PEST10:emr
Date Inj'd : 6/24/2024 18:30 Instrument : Pest 10
Sample : WG1938134-3,42,, Quant Date : 6/25/2024 8:57 am

Compound #57: 4,4'-DDD #2



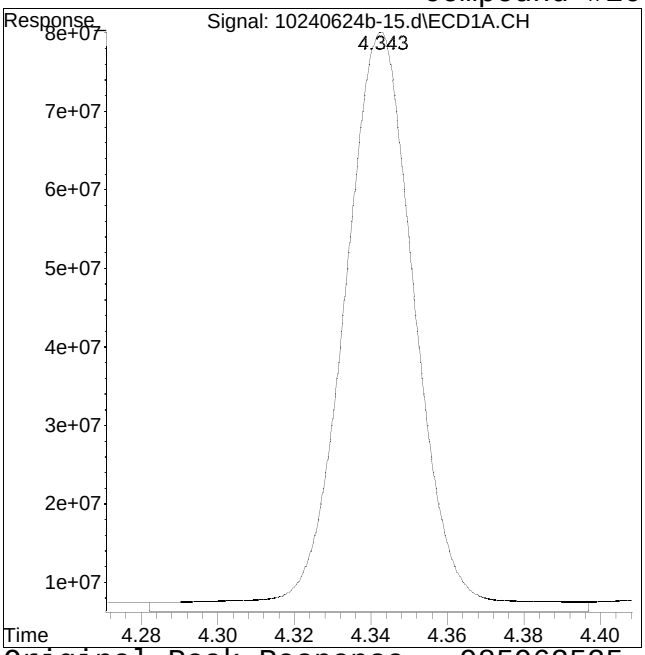


Original Peak Response = 198586833 Manual Peak Response = 193621613 M4
M4 = Poor automated baseline construction.

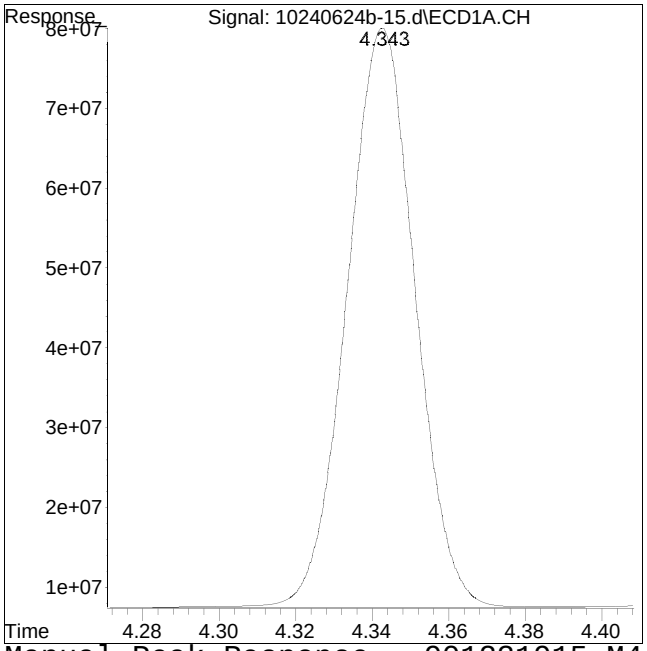
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240624QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240624b-15.d Operator : PEST10:emr
Date Inj'd : 6/24/2024 18:30 Instrument : Pest 10
Sample : WG1938134-3,42,, Quant Date : 6/25/2024 8:57 am

Compound #20: Endosulfan II



Original Peak Response = 985962525



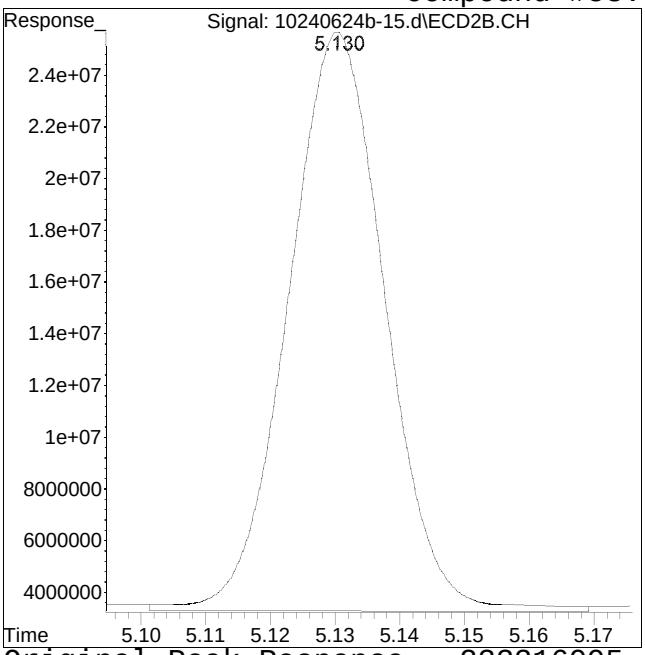
Manual Peak Response = 901231915 M4

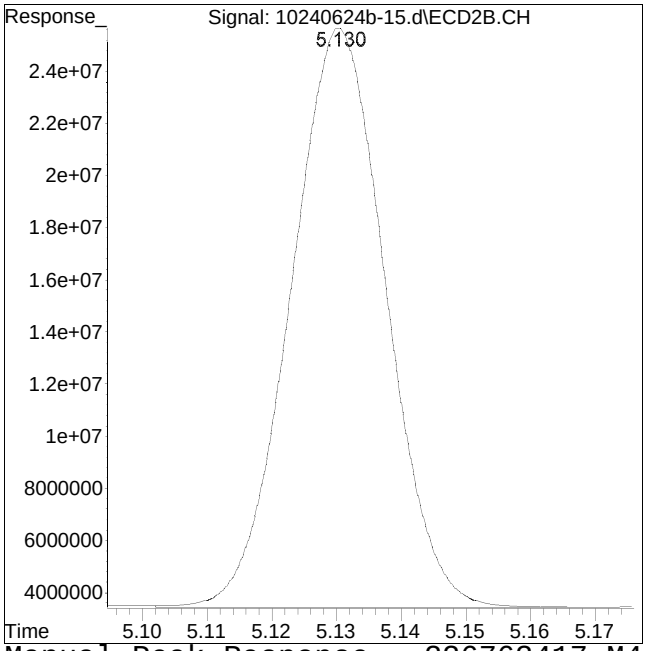
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240624QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240624b-15.d Operator : PEST10:emr
Date Inj'd : 6/24/2024 18:30 Instrument : Pest 10
Sample : WG1938134-3,42,, Quant Date : 6/25/2024 8:57 am

Compound #58: Endosulfan II #2



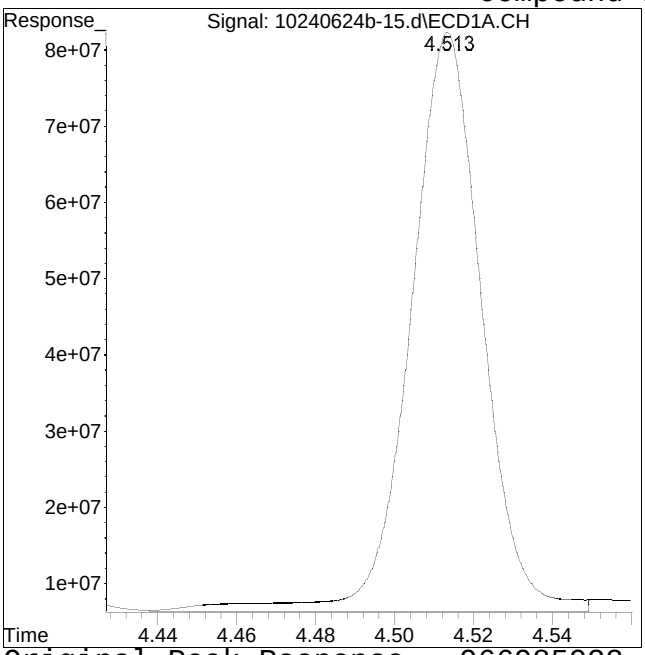


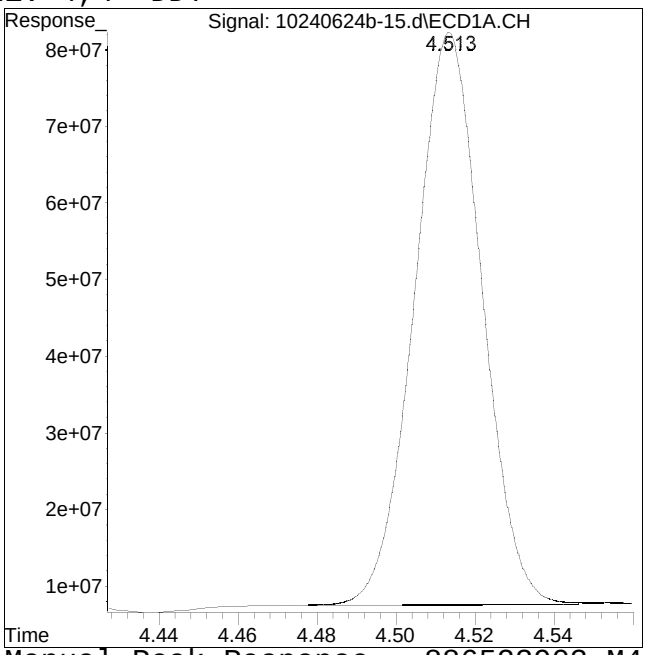
Original Peak Response = 233316995 Manual Peak Response = 226763417 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240624QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240624b-15.d Operator : PEST10:emr
Date Inj'd : 6/24/2024 18:30 Instrument : Pest 10
Sample : WG1938134-3,42,, Quant Date : 6/25/2024 8:57 am

Compound #21: 4,4'-DDT



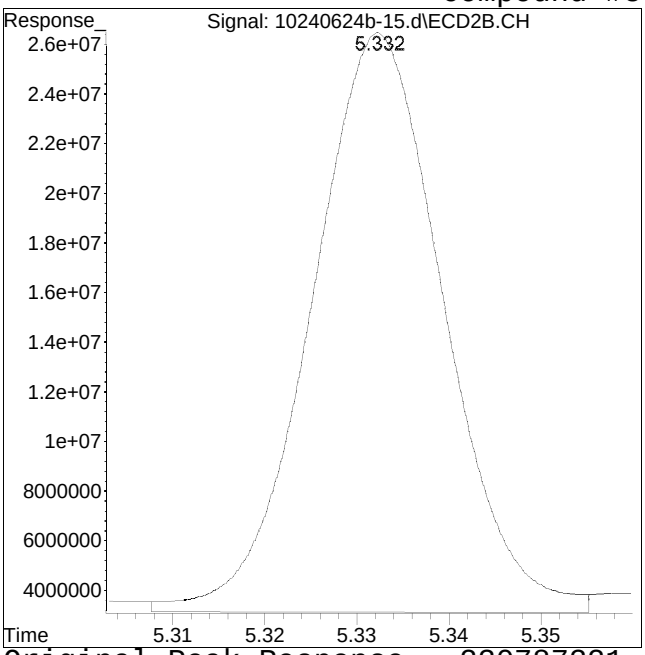


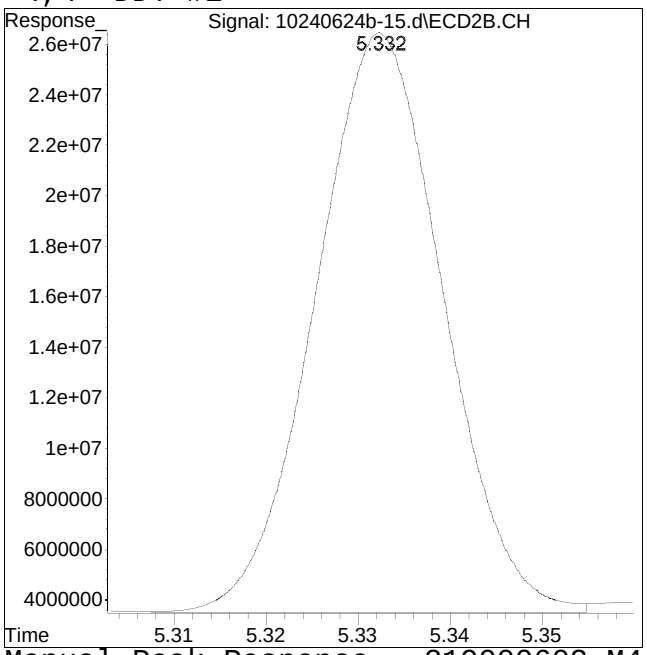
Original Peak Response = 966985922 Manual Peak Response = 886523903 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240624QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240624b-15.d Operator : PEST10:emr
Date Inj'd : 6/24/2024 18:30 Instrument : Pest 10
Sample : WG1938134-3,42,, Quant Date : 6/25/2024 8:57 am

Compound #59: 4,4'-DDT #2



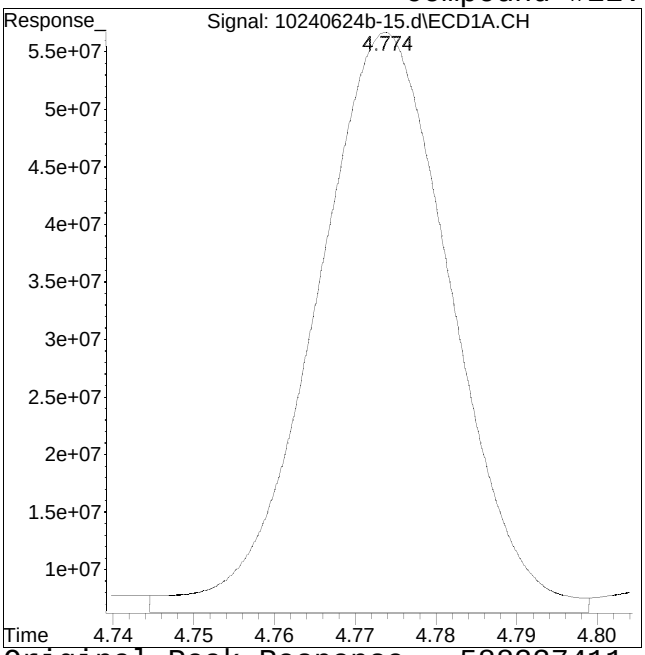


Original Peak Response = 230787321 Manual Peak Response = 219900602 M4
M4 = Poor automated baseline construction.

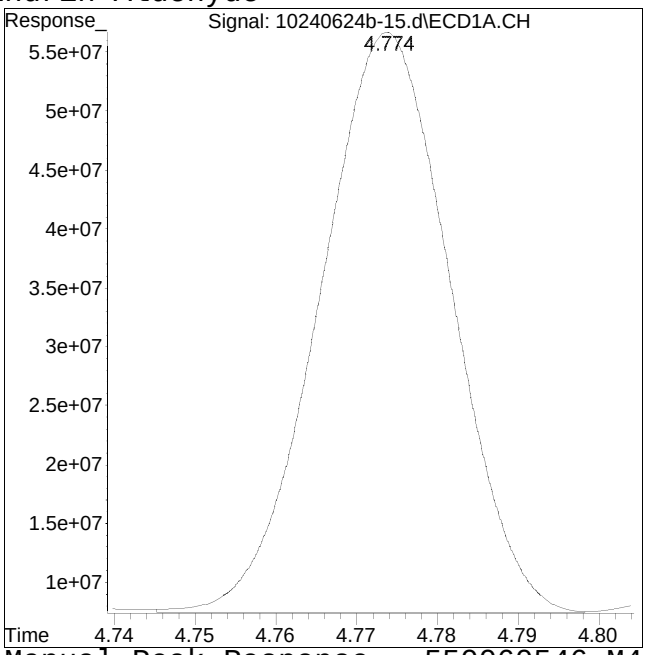
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240624QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240624b-15.d Operator : PEST10:emr
Date Inj'd : 6/24/2024 18:30 Instrument : Pest 10
Sample : WG1938134-3,42,, Quant Date : 6/25/2024 8:57 am

Compound #22: Endrin Aldehyde



Original Peak Response = 588337411



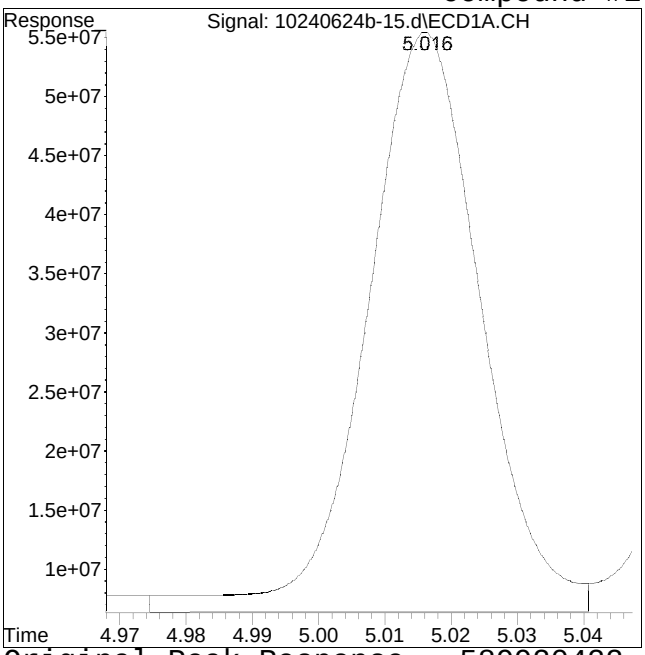
Manual Peak Response = 550060546 M4

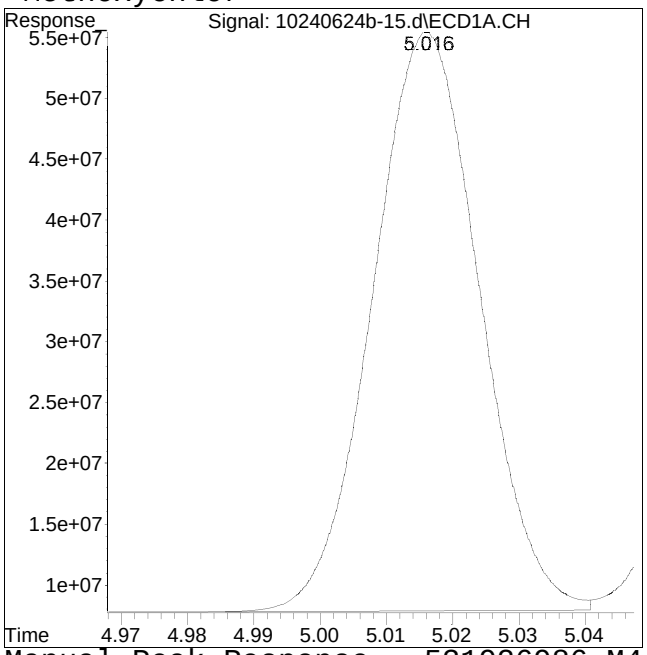
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240624QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240624b-15.d Operator : PEST10:emr
Date Inj'd : 6/24/2024 18:30 Instrument : Pest 10
Sample : WG1938134-3,42,, Quant Date : 6/25/2024 8:57 am

Compound #23: Methoxychlor



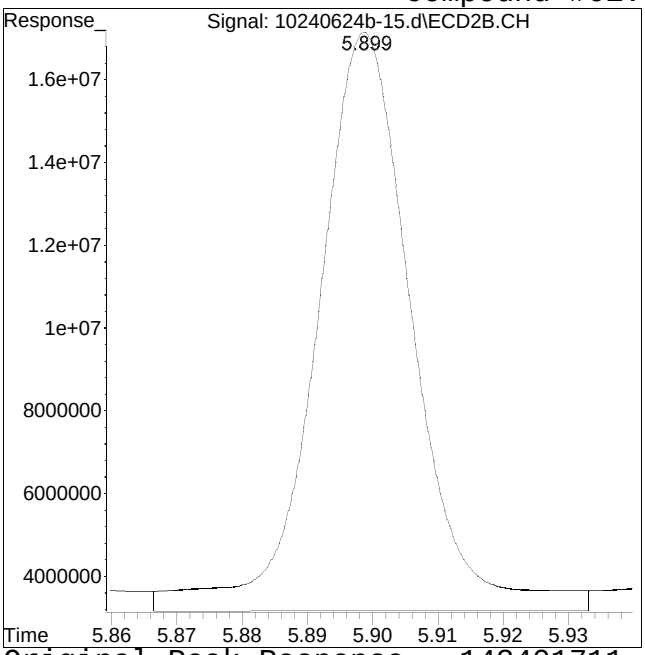


Original Peak Response = 589920422 Manual Peak Response = 531926986 M4
M4 = Poor automated baseline construction.

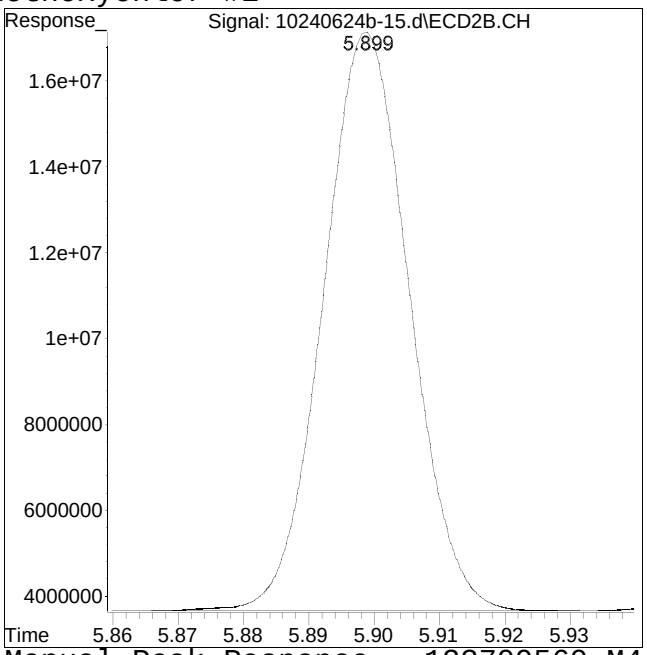
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240624QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240624b-15.d Operator : PEST10:emr
Date Inj'd : 6/24/2024 18:30 Instrument : Pest 10
Sample : WG1938134-3,42,, Quant Date : 6/25/2024 8:57 am

Compound #61: Methoxychlor #2



Original Peak Response = 143401711



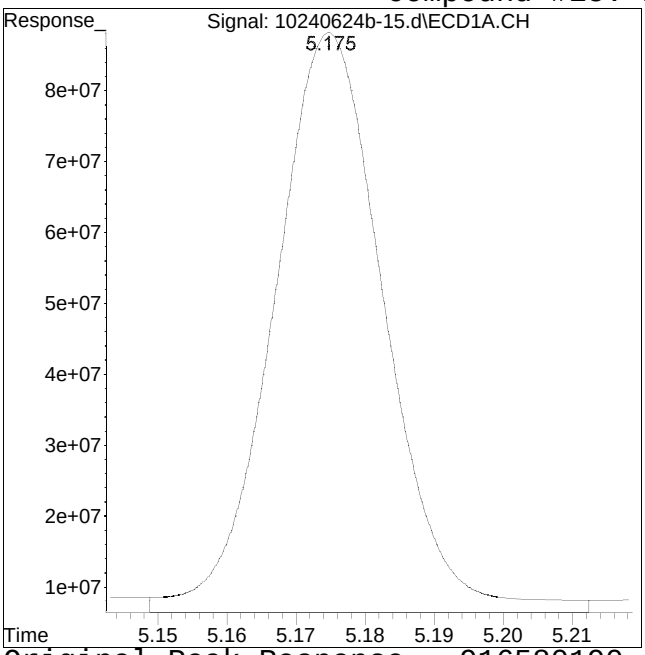
Manual Peak Response = 123709560 M4

M4 = Poor automated baseline construction.

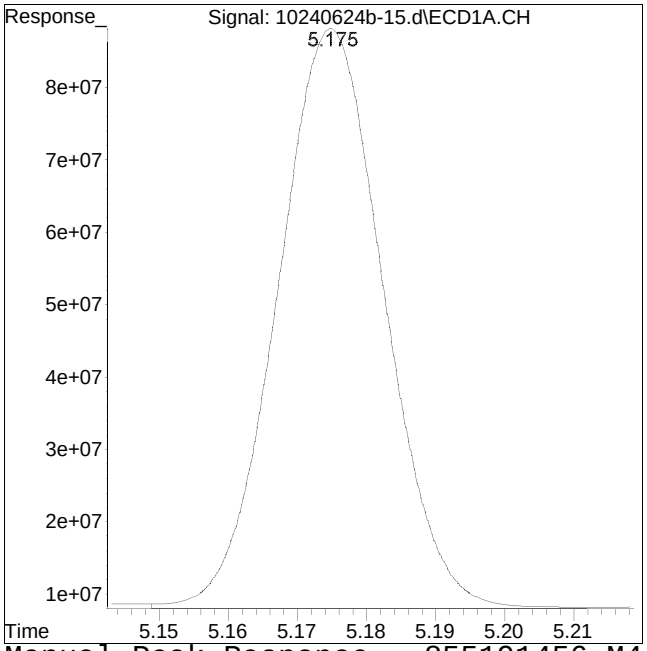
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240624QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240624b-15.d Operator : PEST10:emr
Date Inj'd : 6/24/2024 18:30 Instrument : Pest 10
Sample : WG1938134-3,42,, Quant Date : 6/25/2024 8:57 am

Compound #25: Endosulfan Sulfate



Original Peak Response = 916580190



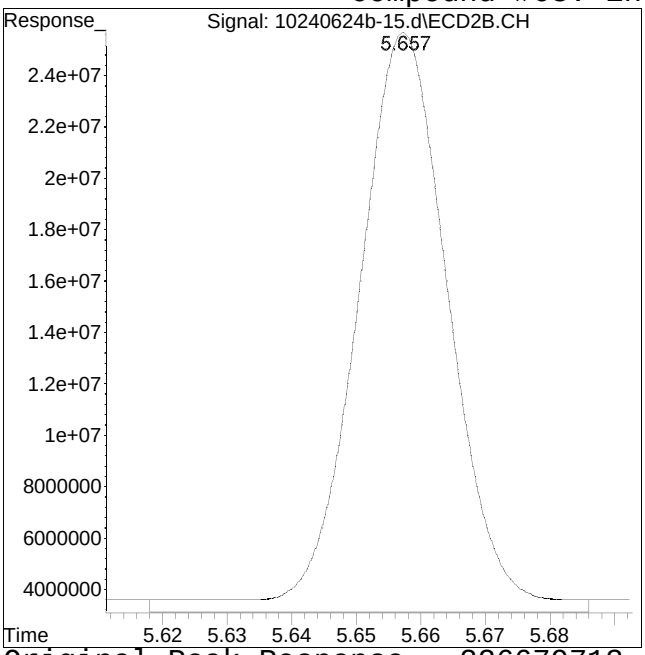
Manual Peak Response = 855191456 M4

M4 = Poor automated baseline construction.

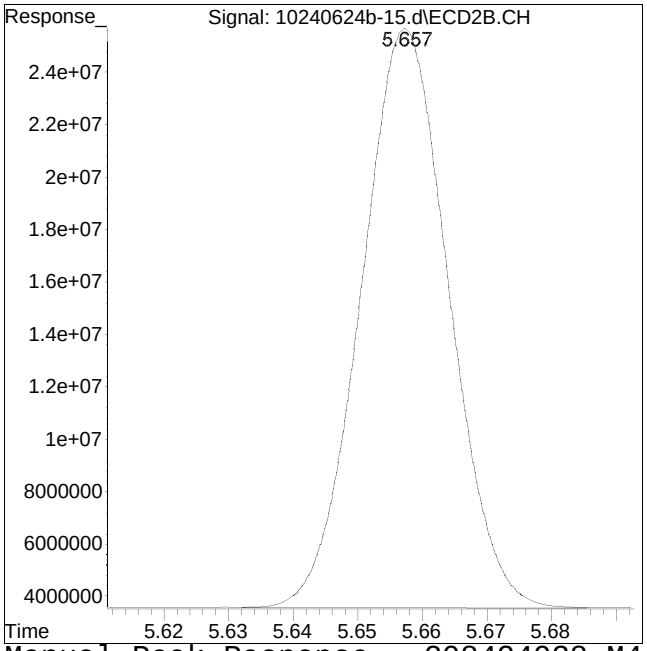
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240624QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240624b-15.d Operator : PEST10:emr
Date Inj'd : 6/24/2024 18:30 Instrument : Pest 10
Sample : WG1938134-3,42,, Quant Date : 6/25/2024 8:57 am

Compound #63: Endosulfan Sulfate #2



Original Peak Response = 226679713



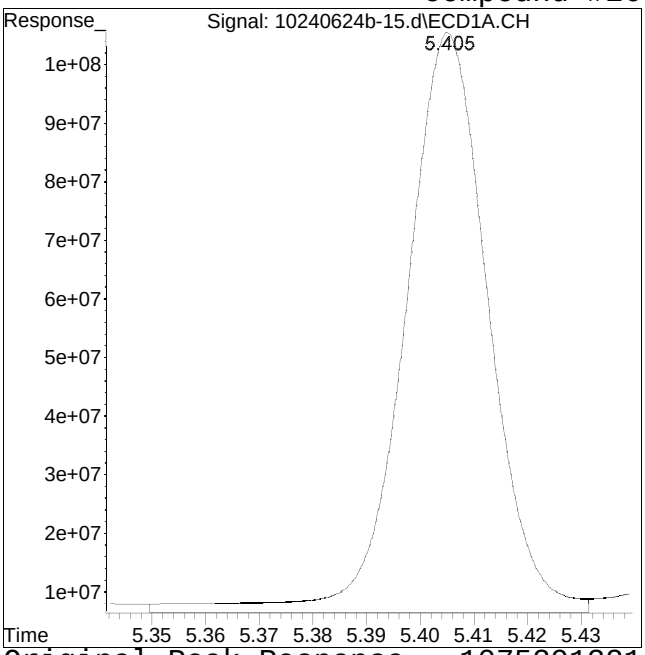
Manual Peak Response = 208424938 M4

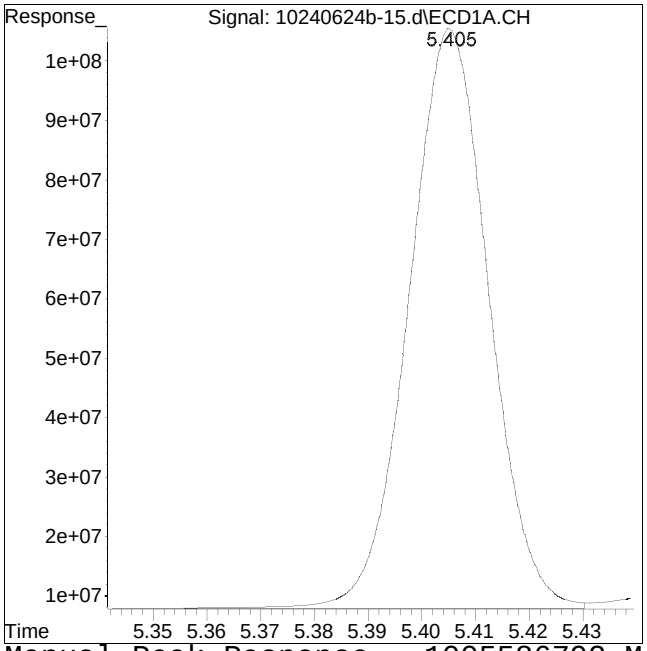
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240624QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240624b-15.d Operator : PEST10:emr
Date Inj'd : 6/24/2024 18:30 Instrument : Pest 10
Sample : WG1938134-3,42,, Quant Date : 6/25/2024 8:57 am

Compound #26: Endrin Ketone



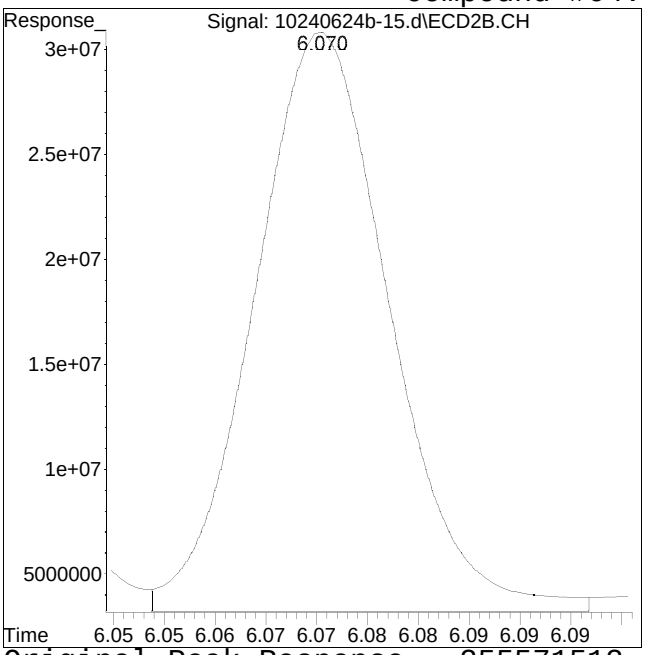


Original Peak Response = 1075291321 Manual Peak Response = 1005586792 M4
M4 = Poor automated baseline construction.

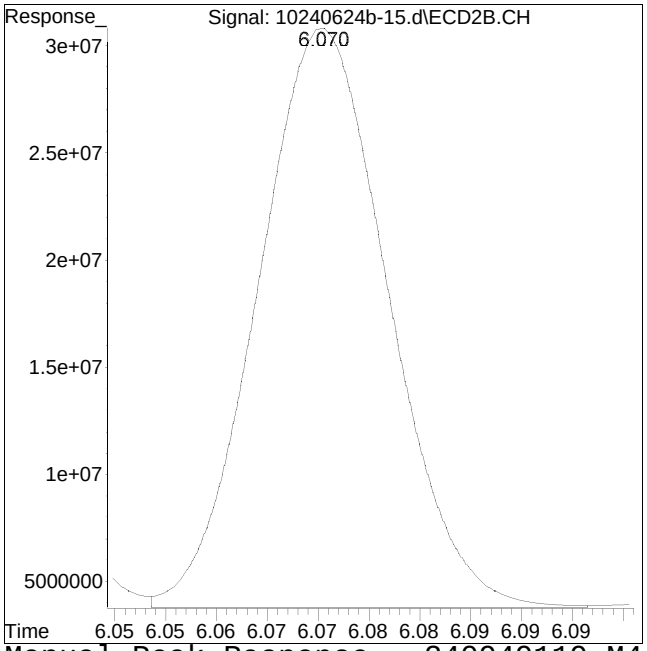
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240624QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240624b-15.d Operator : PEST10:emr
Date Inj'd : 6/24/2024 18:30 Instrument : Pest 10
Sample : WG1938134-3,42,, Quant Date : 6/25/2024 8:57 am

Compound #64: Endrin Ketone #2



Original Peak Response = 255571512



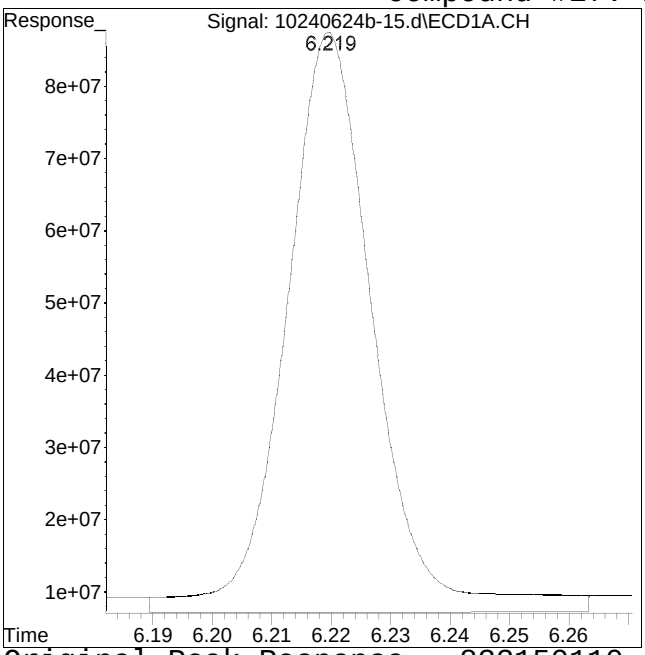
Manual Peak Response = 240949119 M4

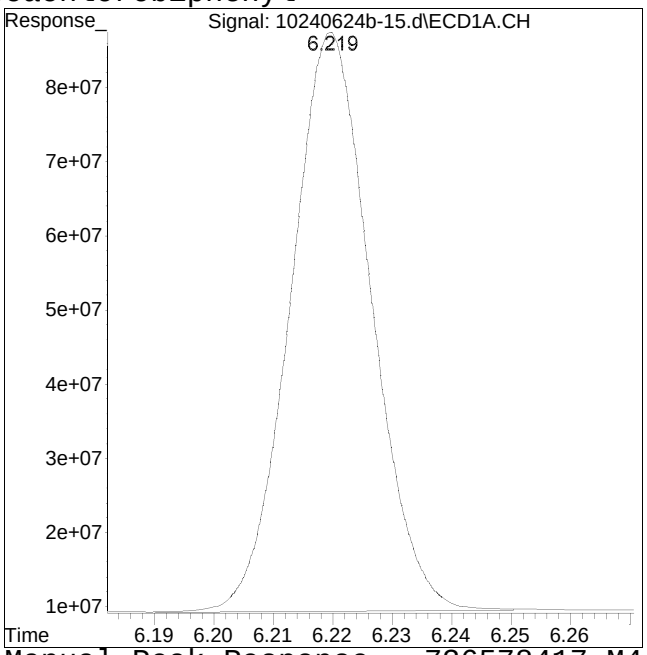
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240624QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240624b-15.d Operator : PEST10:emr
Date Inj'd : 6/24/2024 18:30 Instrument : Pest 10
Sample : WG1938134-3,42,, Quant Date : 6/25/2024 8:57 am

Compound #27: Decachlorobiphenyl



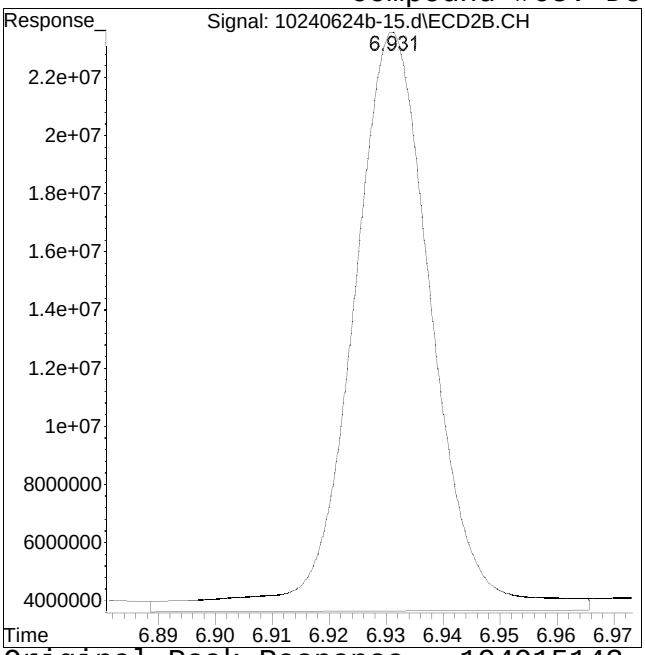


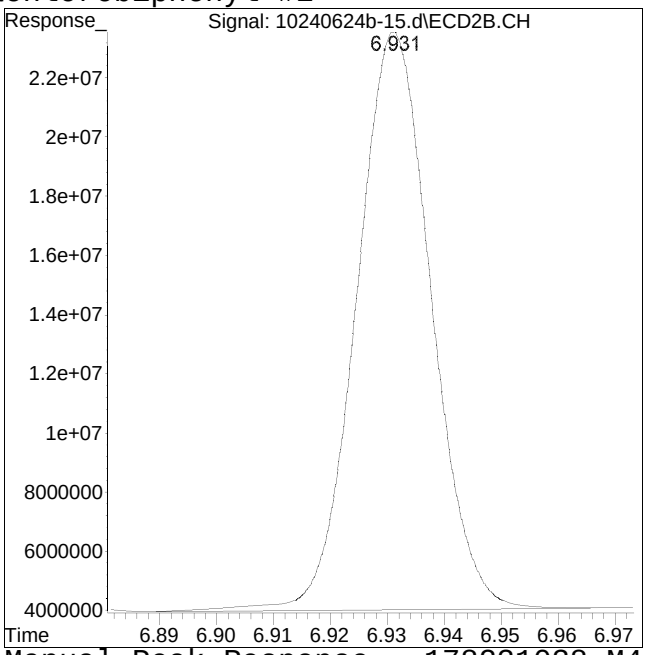
Original Peak Response = 833150110 Manual Peak Response = 736578417 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240624QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240624b-15.d Operator : PEST10:emr
Date Inj'd : 6/24/2024 18:30 Instrument : Pest 10
Sample : WG1938134-3,42,, Quant Date : 6/25/2024 8:57 am

Compound #65: Decachlorobiphenyl #2





Original Peak Response = 194915143 Manual Peak Response = 178231038 M4
M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest10\2024\240626B\
Data File : 10240626b-20.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 26 Jun 2024 20:40
Operator : PEST10:peg
Sample : WG1939408-3,42,,
Misc : wg1939871,WG1939408,ical21109
ALS Vial : 20 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 27 06:55:42 2024
Quant Method : I:\PEST\Pest10\2024\240626B\pest10_2024_05_02_ugL_ical21109.m
Quant Title : pest
QLast Update : Thu Jun 27 06:53:33 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PEST\Pest10\2024\240626B\10240626b-03.d
Sub List : LCS_MS - spk only

	Compound		RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Internal Standards								
1)	i	1-br-2-nb_Pe	1.249	1.364	592.6E6	167.4E6	25.000M4	25.000M4
	Standard Area 1 : #1 = 558962350					Recovery = 106.01%		
	Standard Area 1 : #2 = 147960276					Recovery = 113.15%		
System Monitoring Compounds								
2)	s	2,4,5,6-Tetr	1.585	1.843	756.7E6	202.8E6	29.415M4	32.209M4
	Spiked Amount		50.000	Range 30 - 150		Recovery =	58.83%	64.42%
27)	s	Decachlorobi	6.213	6.928	733.8E6	165.3E6	38.090M4	33.870
	Spiked Amount		50.000	Range 30 - 150		Recovery =	76.18%	67.74%
Target Compounds								
4)	t	alpha-BHC	1.889	2.261	1264.6E6	326.0E6	35.324M3	36.368
5)	t	gamma-BHC (l	2.085	2.546	1155.2E6	300.2E6	34.049M4	35.657M4
6)	t	beta-BHC	2.140	2.611	493.9E6	134.4E6	36.335M4	36.345M4
7)	t	delta-BHC	2.265	2.878	1042.9E6	268.1E6	31.154	31.713M3
8)	t	Heptachlor	2.422	2.943	1172.4E6	290.8E6	36.384M4	34.784M3
9)	t	Aldrin	2.658	3.262	1060.2E6	267.1E6	34.889M4	35.074M4
12)	t	Heptachlor E	3.190	3.879	1027.9E6	257.1E6	35.507M4	33.765M3
13)	t	gamma-Chlord	3.311	4.099	1051.0E6	264.5E6	39.687M4	39.059M4
14)	t	alpha-Chlord	3.443	4.271	1010.2E6	260.1E6	33.581M4	34.155M4
15)	t	4,4'-DDE	3.539	4.471	1025.3E6	254.2E6	35.991M4	36.092M4
16)	t	Endosulfan I	3.576	4.333	957.5E6	243.0E6	34.741M4	34.300M4
17)	t	Dieldrin	3.832	4.627	1114.8E6	273.0E6	39.190M4	38.499M4
18)	t	Endrin	4.084	4.926	1070.8E6	260.7E6	36.649M4	35.839
19)	t	4,4'-DDD	4.201	5.049	910.6E6	217.7E6	39.318M4	38.435M4
20)	t	Endosulfan I	4.334	5.125	925.3E6	227.0E6	36.690M4	35.632M4
21)	t	4,4'-DDT	4.505	5.327	958.6E6	229.6E6	37.405M3	35.721M4

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest10\2024\240626B\
Data File : 10240626b-20.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 26 Jun 2024 20:40
Operator : PEST10:peg
Sample : WG1939408-3,42,,
Misc : wg1939871,WG1939408,ical21109
ALS Vial : 20 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 27 06:55:42 2024
Quant Method : I:\PEST\Pest10\2024\240626B\pest10_2024_05_02_ugL_ical21109.m
Quant Title : pest
QLast Update : Thu Jun 27 06:53:33 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PEST\Pest10\2024\240626B\10240626b-03.d
Sub List : LCS_MS - spk only

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
22) t Endrin Aldeh	4.766	5.423	646.0E6	157.7E6	33.537M4	30.598M4
23) t Methoxychlor	5.009	5.895	550.0E6	126.8E6	46.260M4	39.178
25) t Endosulfan S	5.167	5.652	833.7E6	199.6E6	33.339M4	31.432M4
26) t Endrin Keton	5.398	6.066	1052.0E6	247.7E6	38.352M4	35.800
Sum chlordane-1			0	0	N.D.	N.D.
Average chlordane-1					0.000	0.000
Sum toxaphene-1			0	0	N.D.	N.D.
Average toxaphene-1					0.000	0.000
SemiQuant Compounds - Not Calibrated on this Instrument						
Sum toxaphene-1			0	0	N.D.	N.D.
Average toxaphene-1					0.000	0.000

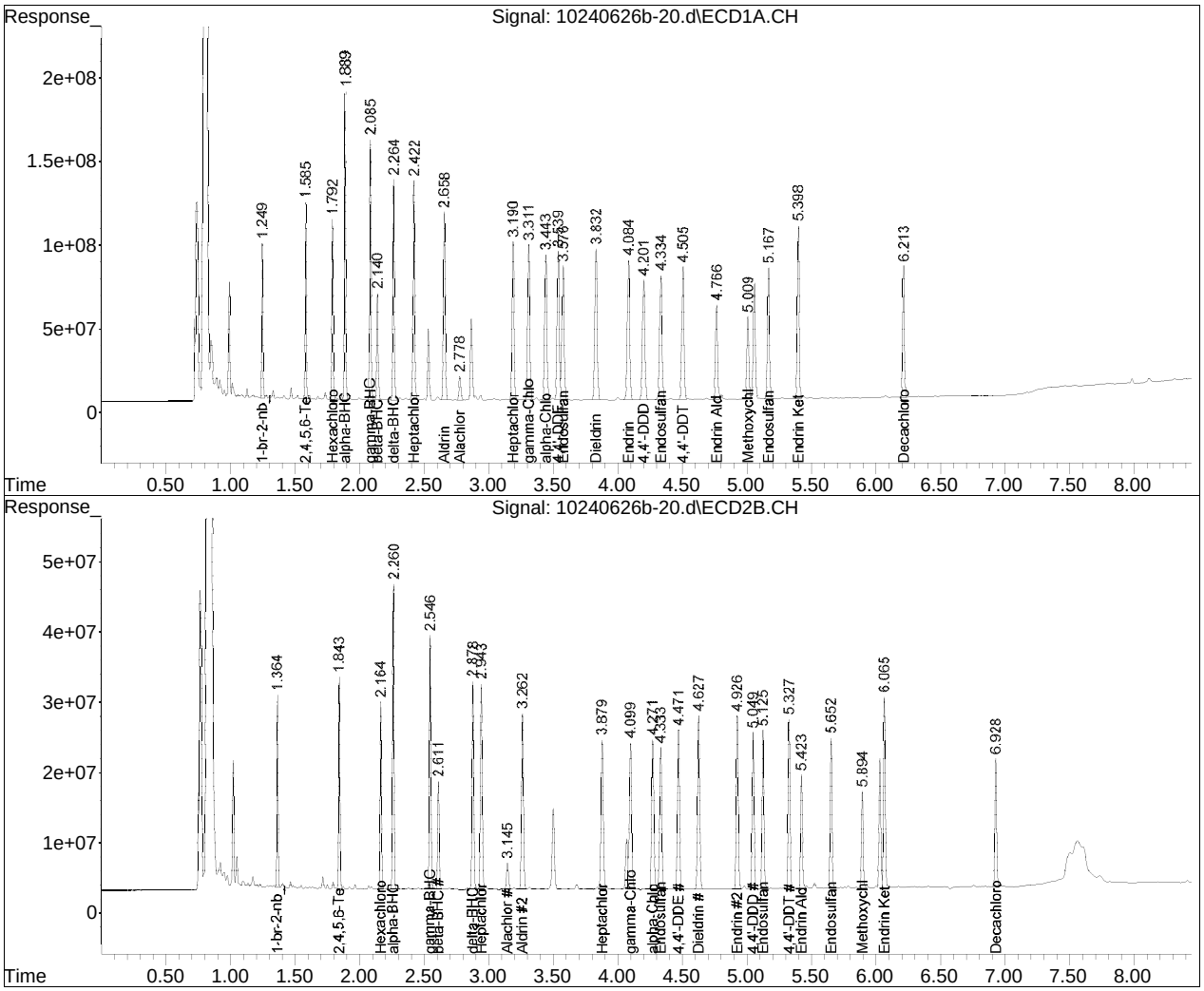
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : LCS_MS - spk only0\2024\240626B\10240626b-03.d•

Data Path : I:\PEST\Pest10\2024\240626B\
Data File : 10240626b-20.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 26 Jun 2024 20:40
Operator : PEST10:peg
Sample : WG1939408-3,42,,
Misc : wg1939871,WG1939408,ical21109
ALS Vial : 20 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 27 06:55:42 2024
Quant Method : I:\PEST\Pest10\2024\240626B\pest10_2024_05_02_ugL_ical21109.m
Quant Title : pest
QLast Update : Thu Jun 27 06:53:33 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

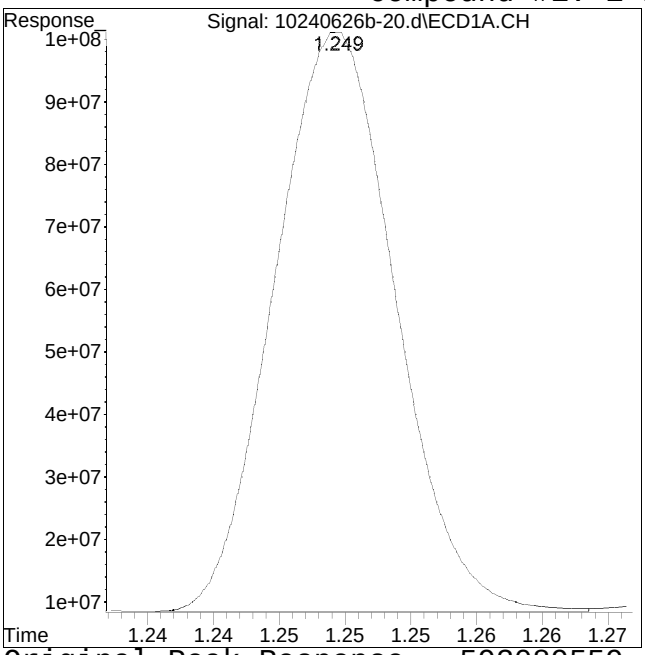
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

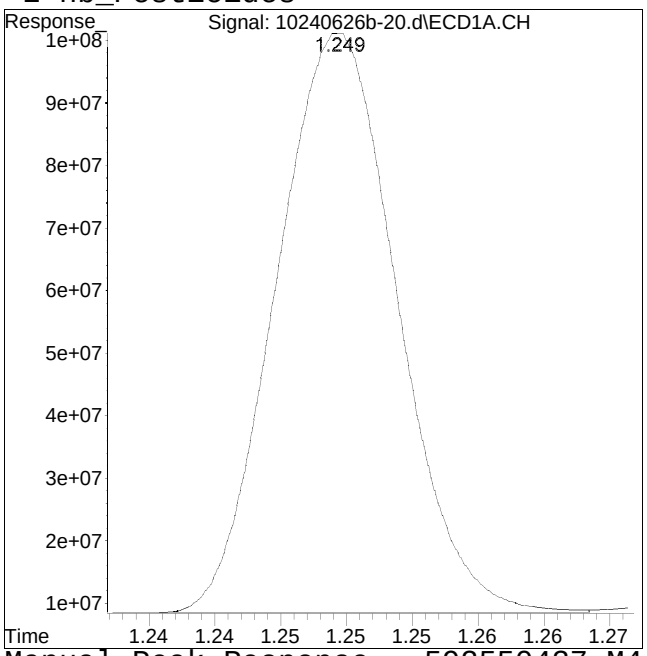


Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240626QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240626b-20.d Operator : PEST10:peg
Date Inj'd : 6/26/2024 20:40 Instrument : Pest 10
Sample : WG1939408-3,42,, Quant Date : 6/27/2024 6:55 am

Compound #1: 1-br-2-nb_Pesticides



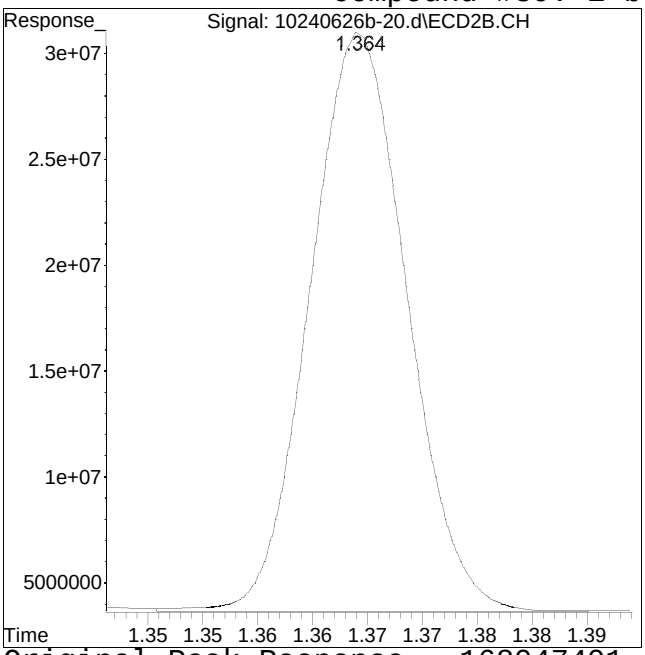


Original Peak Response = 593089559 Manual Peak Response = 592550437 M4
M4 = Poor automated baseline construction.

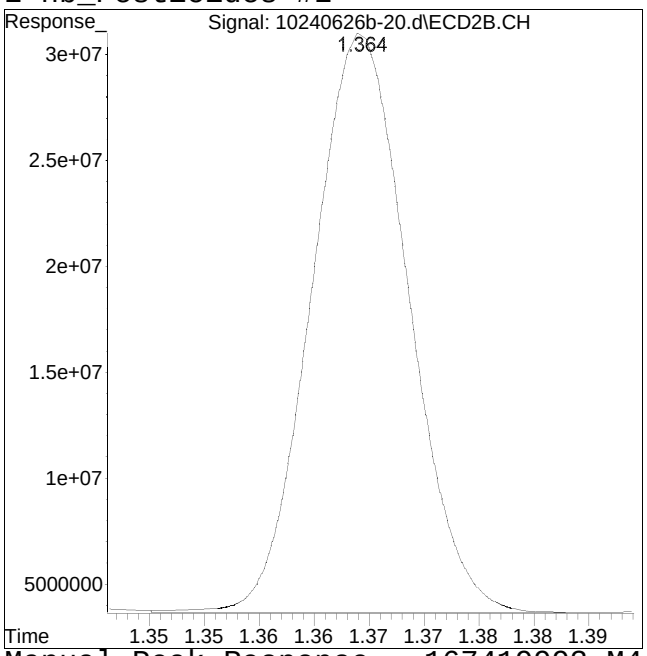
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240626QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240626b-20.d Operator : PEST10:peg
Date Inj'd : 6/26/2024 20:40 Instrument : Pest 10
Sample : WG1939408-3,42,, Quant Date : 6/27/2024 6:55 am

Compound #39: 1-br-2-nb_Pesticides #2



Original Peak Response = 168047401



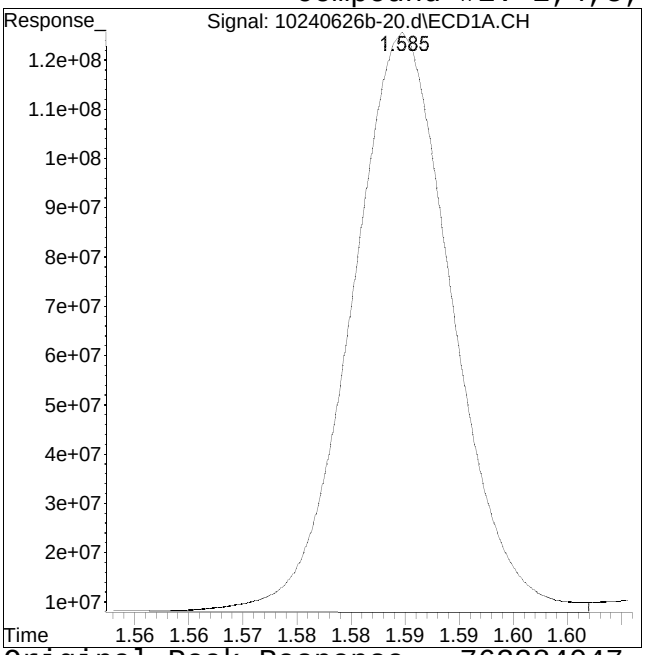
Manual Peak Response = 167419993 M4

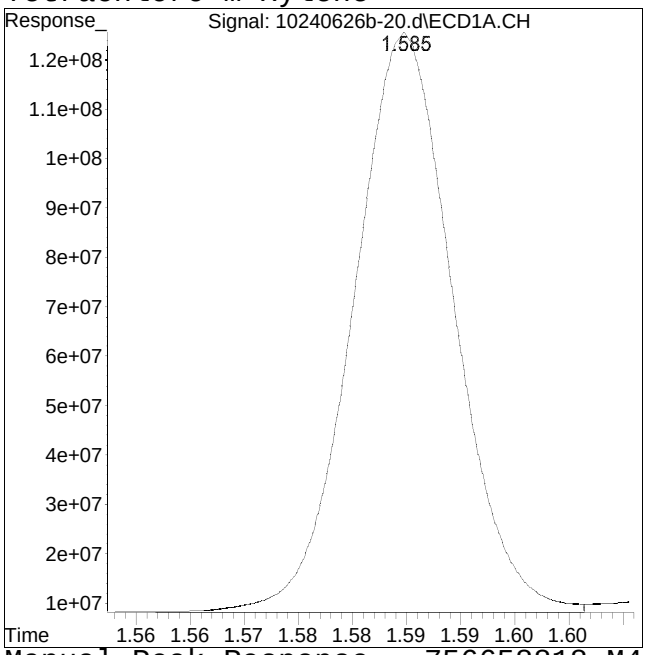
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240626QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240626b-20.d Operator : PEST10:peg
Date Inj'd : 6/26/2024 20:40 Instrument : Pest 10
Sample : WG1939408-3,42,, Quant Date : 6/27/2024 6:55 am

Compound #2: 2,4,5,6-Tetrachloro-m-xylene



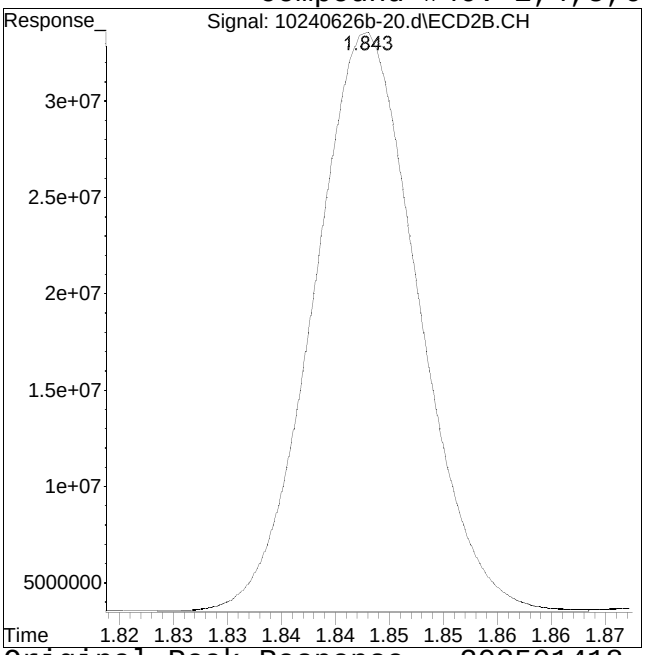


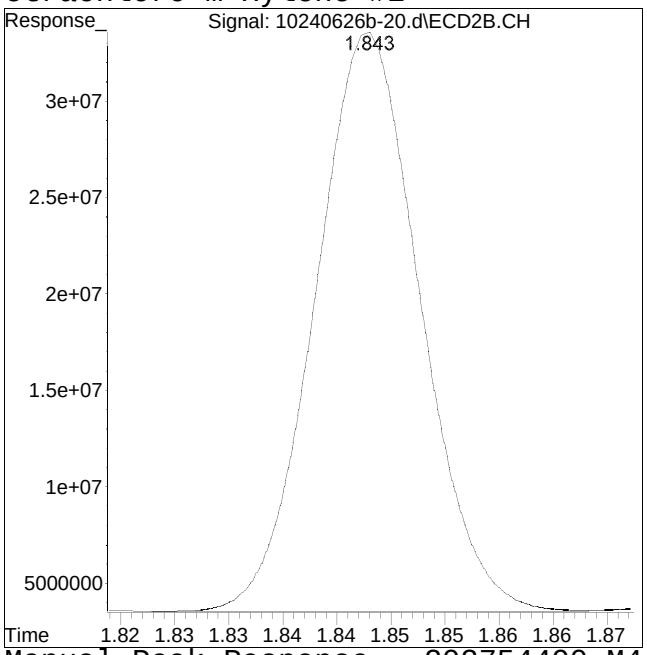
Original Peak Response = 763384047 Manual Peak Response = 756658818 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240626QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240626b-20.d Operator : PEST10:peg
Date Inj'd : 6/26/2024 20:40 Instrument : Pest 10
Sample : WG1939408-3,42,, Quant Date : 6/27/2024 6:55 am

Compound #40: 2,4,5,6-Tetrachloro-m-xylene #2



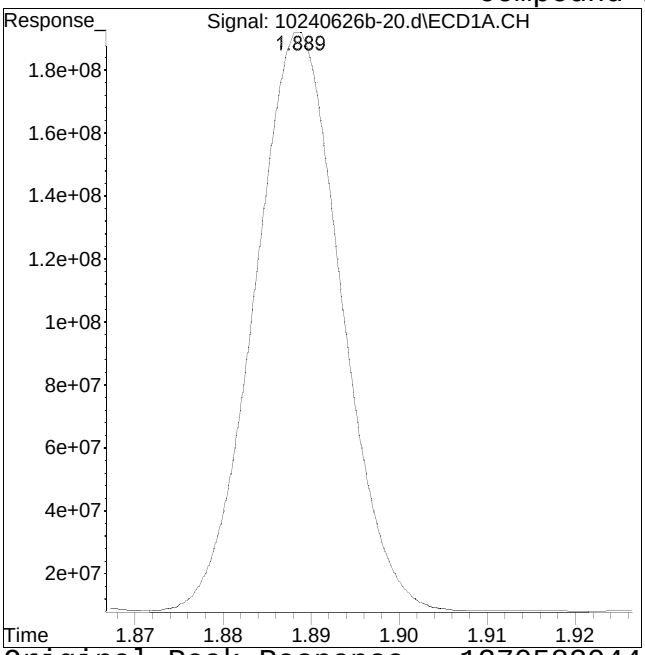


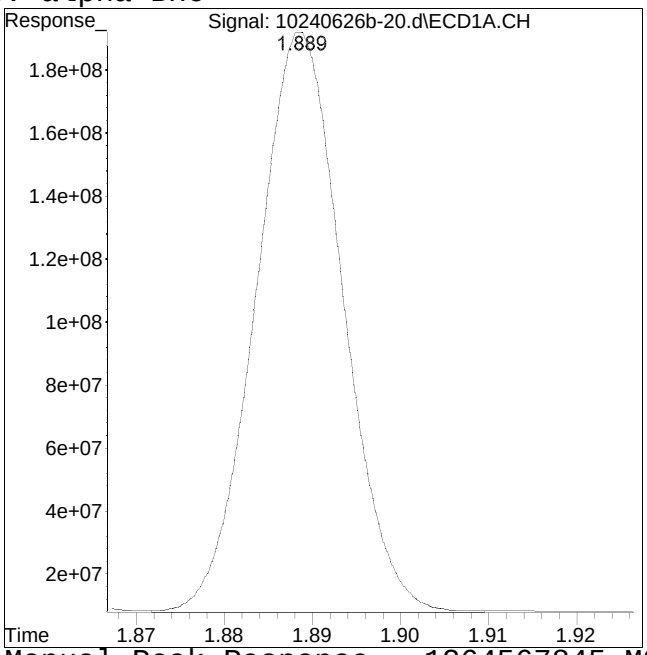
Original Peak Response = 203501418 Manual Peak Response = 202754490 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240626QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240626b-20.d Operator : PEST10:peg
Date Inj'd : 6/26/2024 20:40 Instrument : Pest 10
Sample : WG1939408-3,42,, Quant Date : 6/27/2024 6:55 am

Compound #4: alpha-BHC



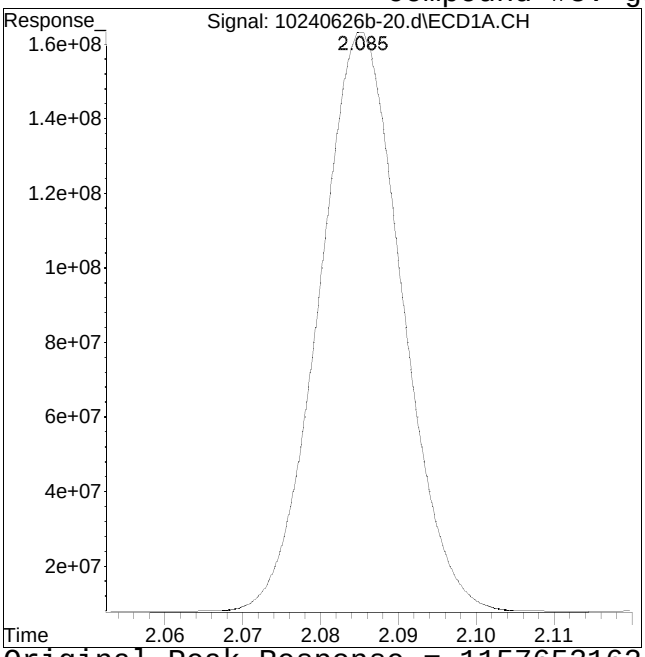


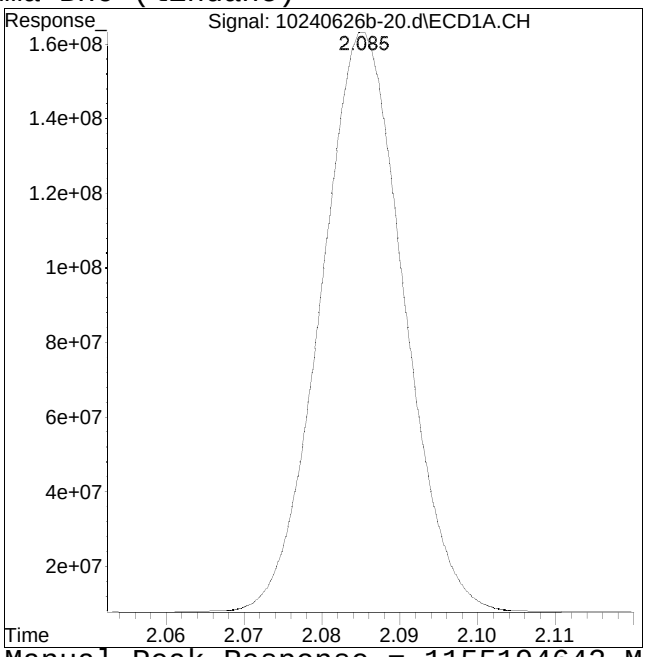
Original Peak Response = 1270583044 Manual Peak Response = 1264567845 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240626QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240626b-20.d Operator : PEST10:peg
Date Inj'd : 6/26/2024 20:40 Instrument : Pest 10
Sample : WG1939408-3,42,, Quant Date : 6/27/2024 6:55 am

Compound #5: gamma-BHC (lindane)



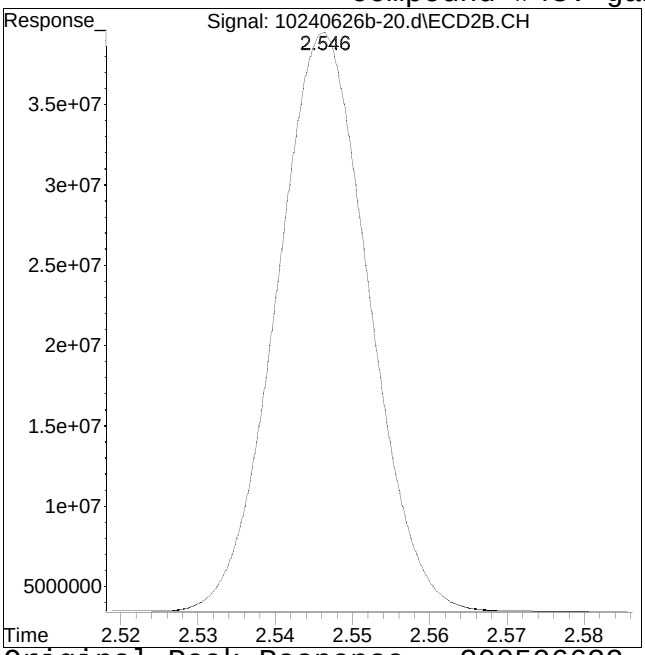


Original Peak Response = 1157653162 Manual Peak Response = 1155194642 M4
M4 = Poor automated baseline construction.

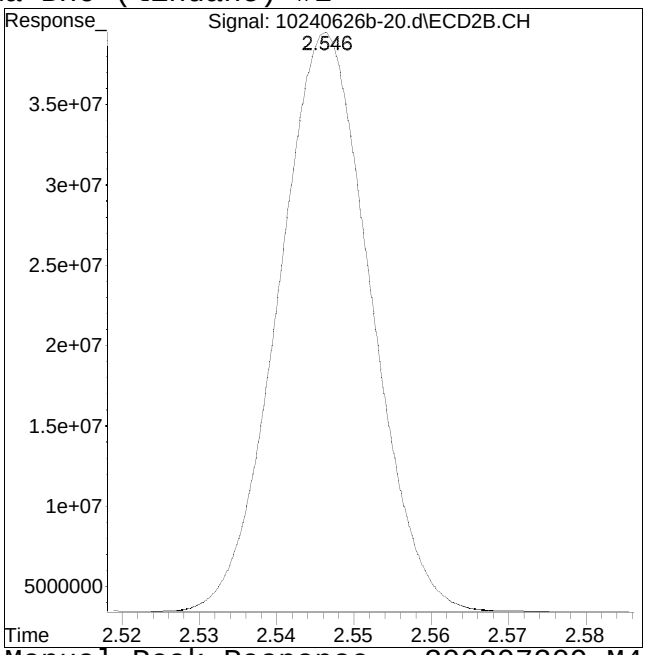
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240626QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240626b-20.d Operator : PEST10:peg
Date Inj'd : 6/26/2024 20:40 Instrument : Pest 10
Sample : WG1939408-3,42,, Quant Date : 6/27/2024 6:55 am

Compound #43: gamma-BHC (lindane) #2



Original Peak Response = 300506632



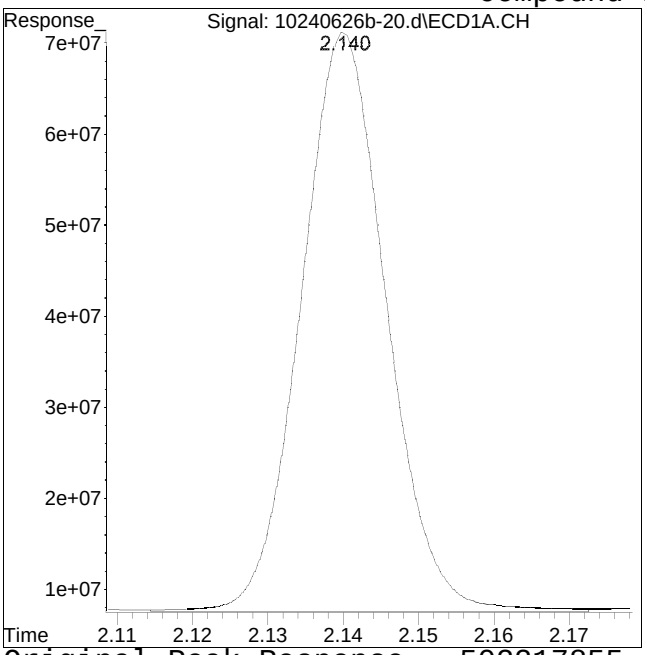
Manual Peak Response = 300207309 M4

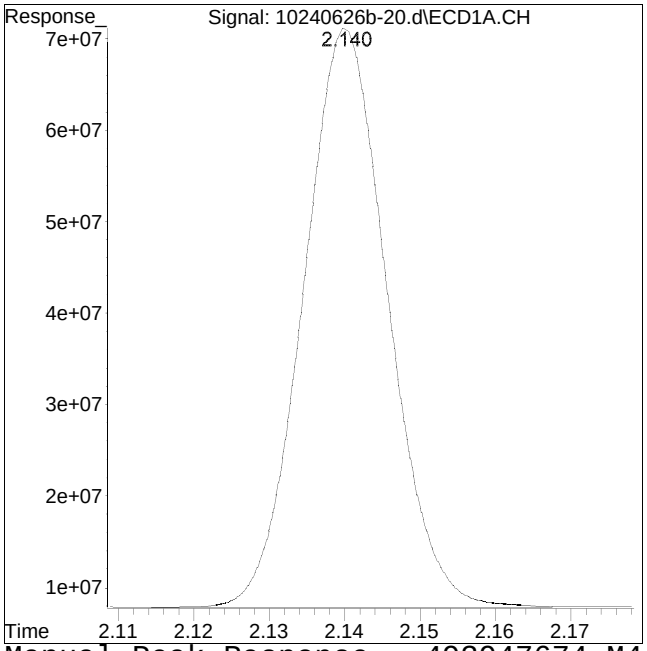
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240626QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240626b-20.d Operator : PEST10:peg
Date Inj'd : 6/26/2024 20:40 Instrument : Pest 10
Sample : WG1939408-3,42,, Quant Date : 6/27/2024 6:55 am

Compound #6: beta-BHC



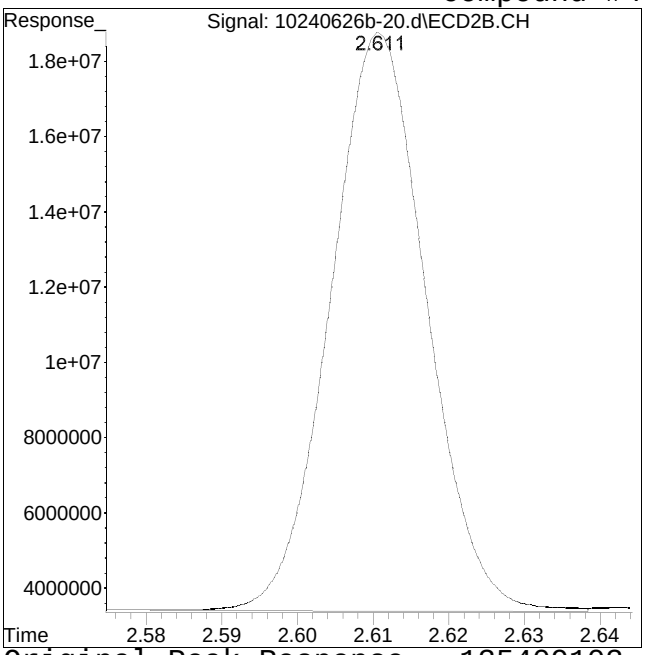


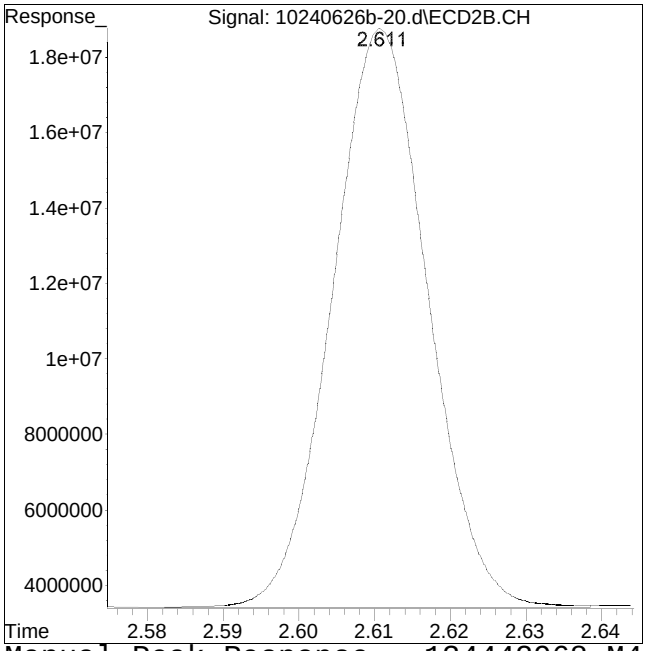
Original Peak Response = 502217855 Manual Peak Response = 493947674 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240626QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240626b-20.d Operator : PEST10:peg
Date Inj'd : 6/26/2024 20:40 Instrument : Pest 10
Sample : WG1939408-3,42,, Quant Date : 6/27/2024 6:55 am

Compound #44: beta-BHC #2



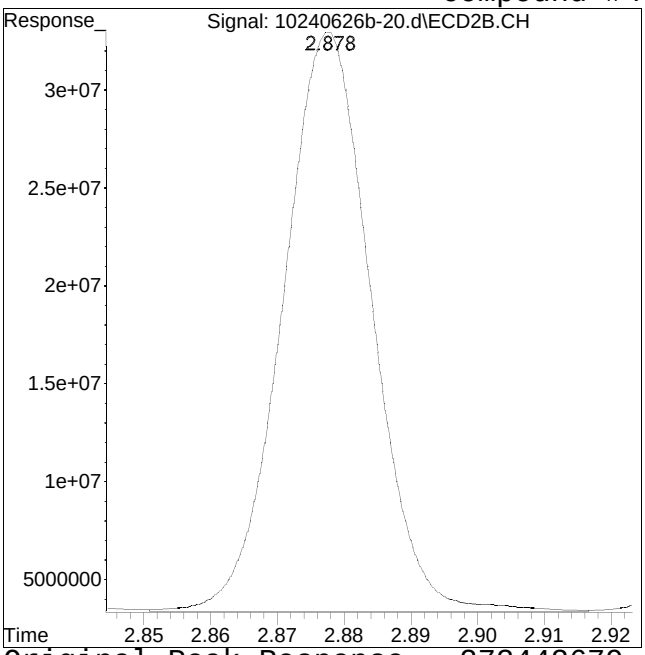


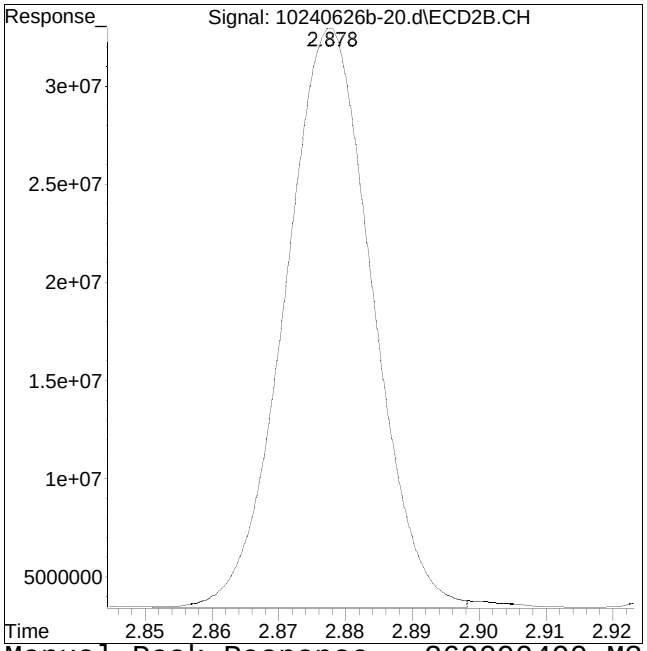
Original Peak Response = 135409103 Manual Peak Response = 134442968 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240626QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240626b-20.d Operator : PEST10:peg
Date Inj'd : 6/26/2024 20:40 Instrument : Pest 10
Sample : WG1939408-3,42,, Quant Date : 6/27/2024 6:55 am

Compound #45: delta-BHC #2



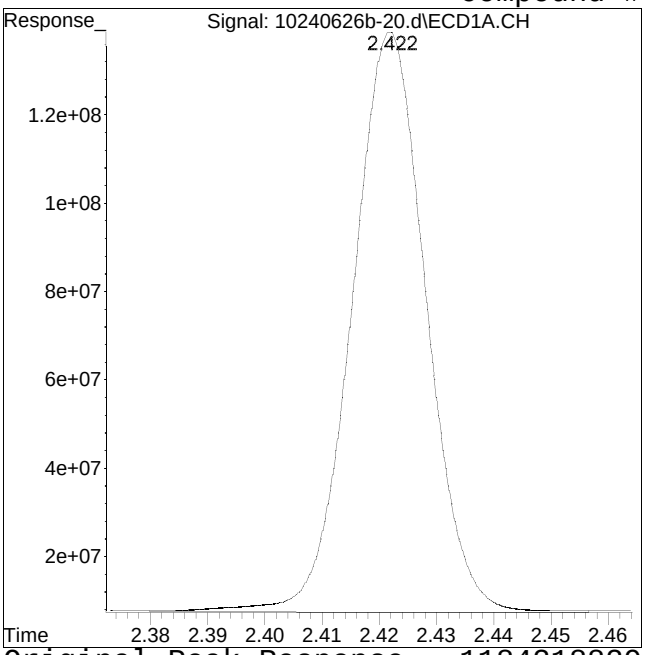


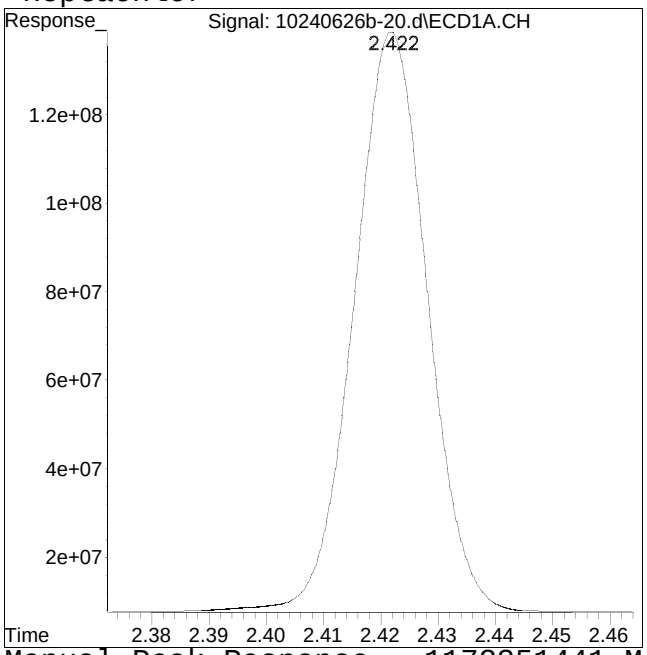
Original Peak Response = 273442679 Manual Peak Response = 268090490 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240626QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240626b-20.d Operator : PEST10:peg
Date Inj'd : 6/26/2024 20:40 Instrument : Pest 10
Sample : WG1939408-3,42,, Quant Date : 6/27/2024 6:55 am

Compound #8: Heptachlor



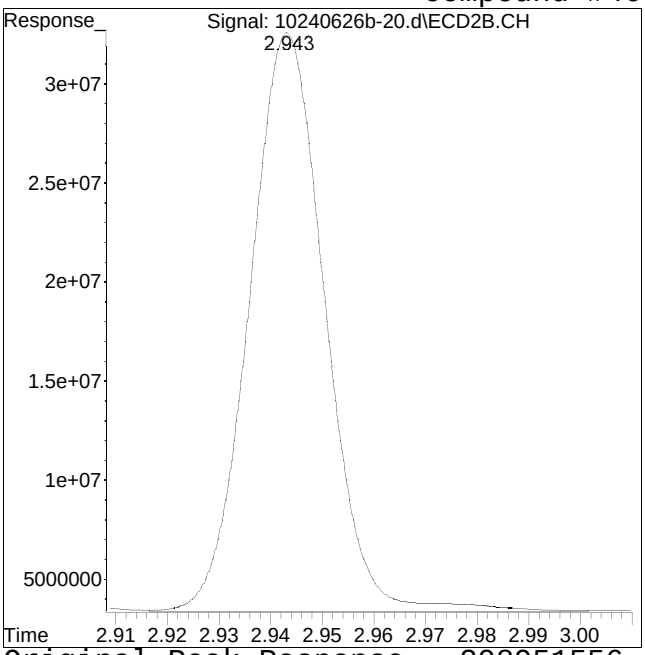


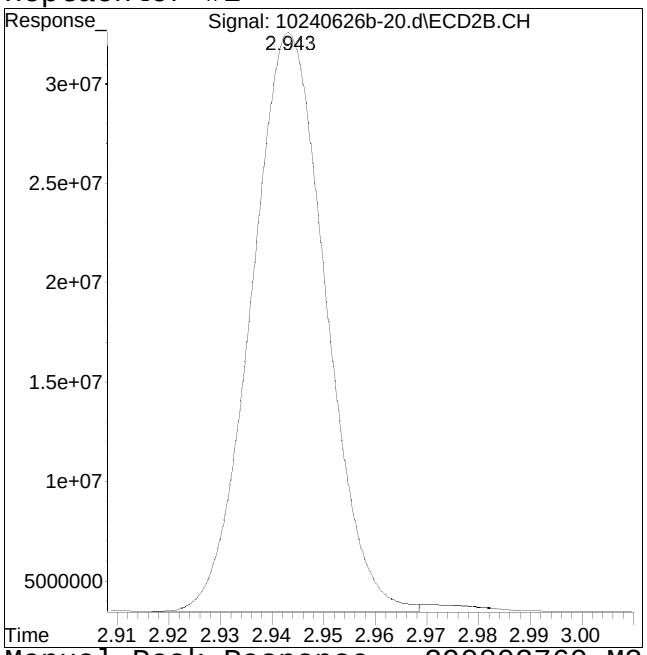
Original Peak Response = 1184218829 Manual Peak Response = 1172351441 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240626QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240626b-20.d Operator : PEST10:peg
Date Inj'd : 6/26/2024 20:40 Instrument : Pest 10
Sample : WG1939408-3,42,, Quant Date : 6/27/2024 6:55 am

Compound #46: Heptachlor #2



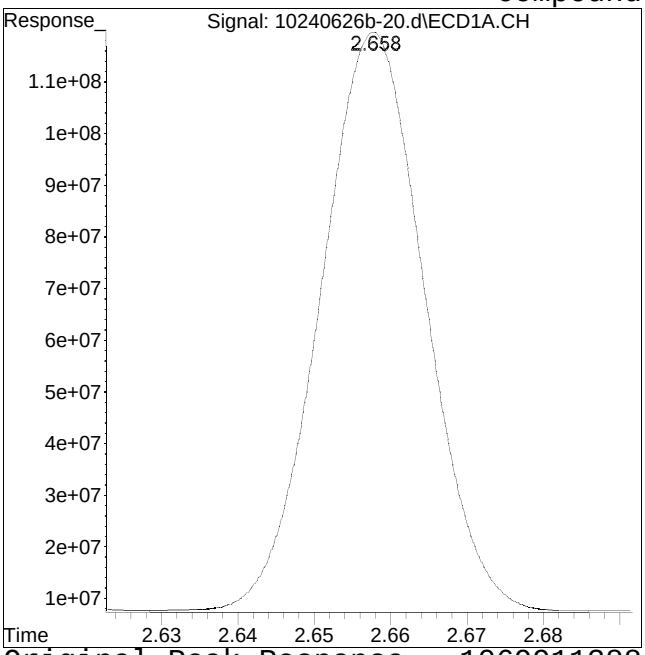


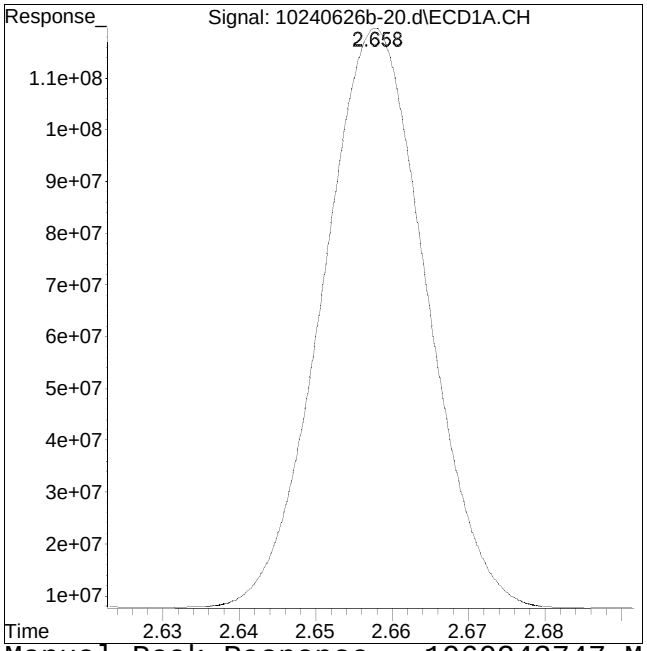
Original Peak Response = 298951556 Manual Peak Response = 290803760 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240626QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240626b-20.d Operator : PEST10:peg
Date Inj'd : 6/26/2024 20:40 Instrument : Pest 10
Sample : WG1939408-3,42,, Quant Date : 6/27/2024 6:55 am

Compound #9: Aldrin



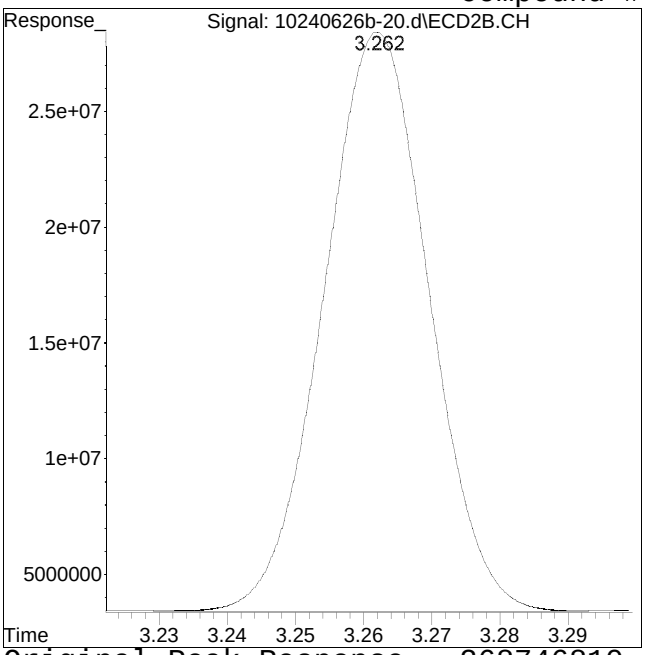


Original Peak Response = 1069911388 Manual Peak Response = 1060243747 M4
M4 = Poor automated baseline construction.

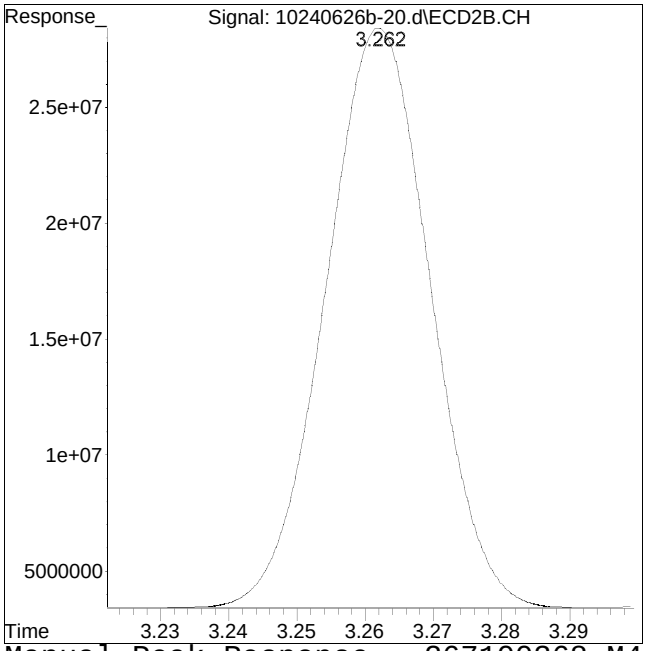
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240626QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240626b-20.d Operator : PEST10:peg
Date Inj'd : 6/26/2024 20:40 Instrument : Pest 10
Sample : WG1939408-3,42,, Quant Date : 6/27/2024 6:55 am

Compound #47: Aldrin #2



Original Peak Response = 268746810



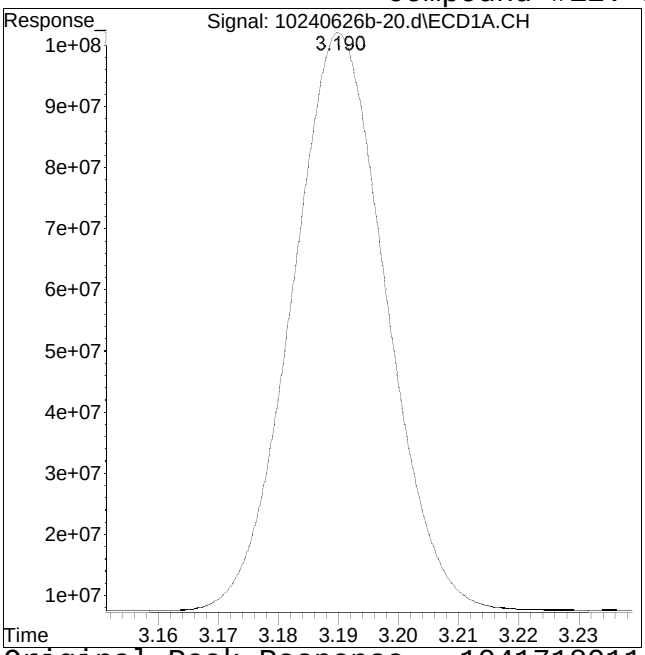
Manual Peak Response = 267100368 M4

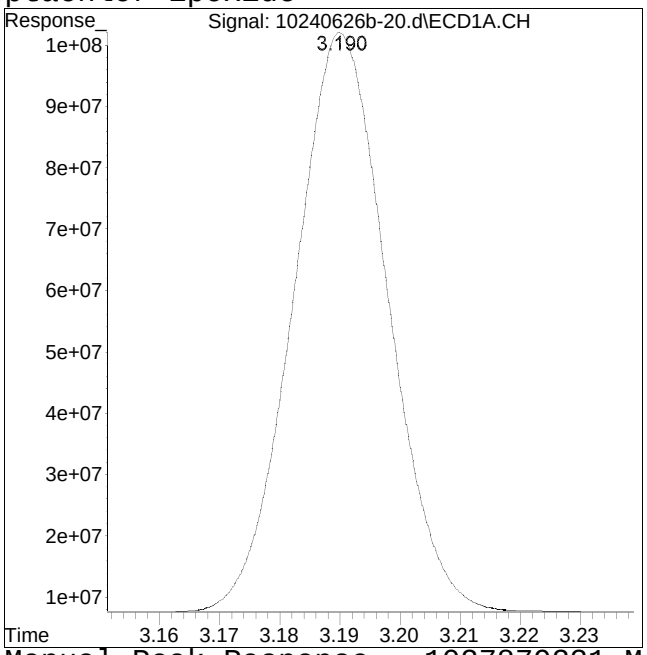
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240626QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240626b-20.d Operator : PEST10:peg
Date Inj'd : 6/26/2024 20:40 Instrument : Pest 10
Sample : WG1939408-3,42,, Quant Date : 6/27/2024 6:55 am

Compound #12: Heptachlor Epoxide



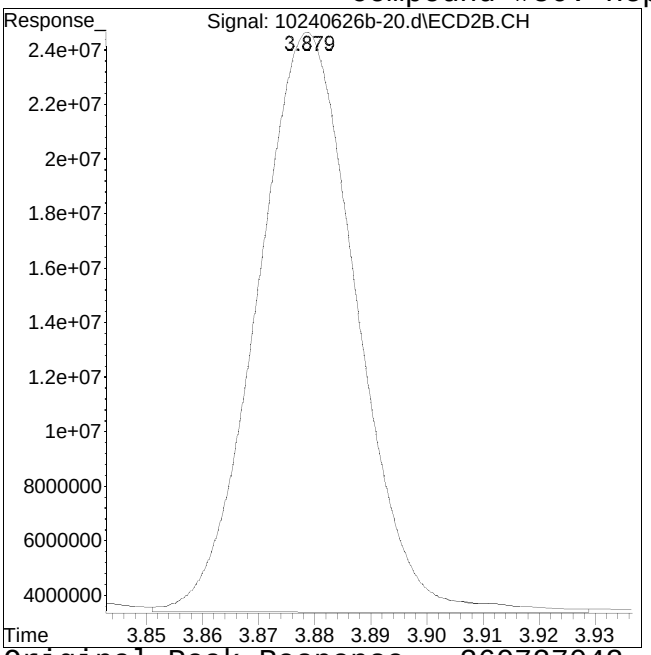


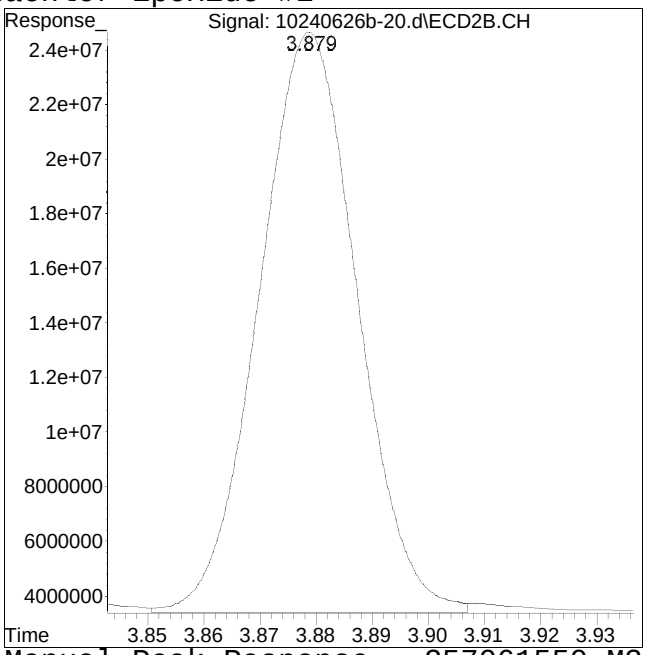
Original Peak Response = 1041718011 Manual Peak Response = 1027879231 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240626QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240626b-20.d Operator : PEST10:peg
Date Inj'd : 6/26/2024 20:40 Instrument : Pest 10
Sample : WG1939408-3,42,, Quant Date : 6/27/2024 6:55 am

Compound #50: Heptachlor Epoxide #2



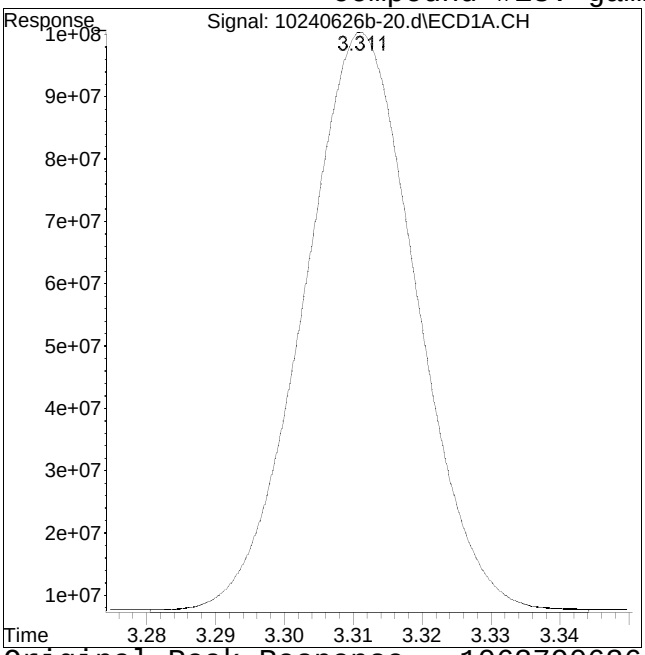


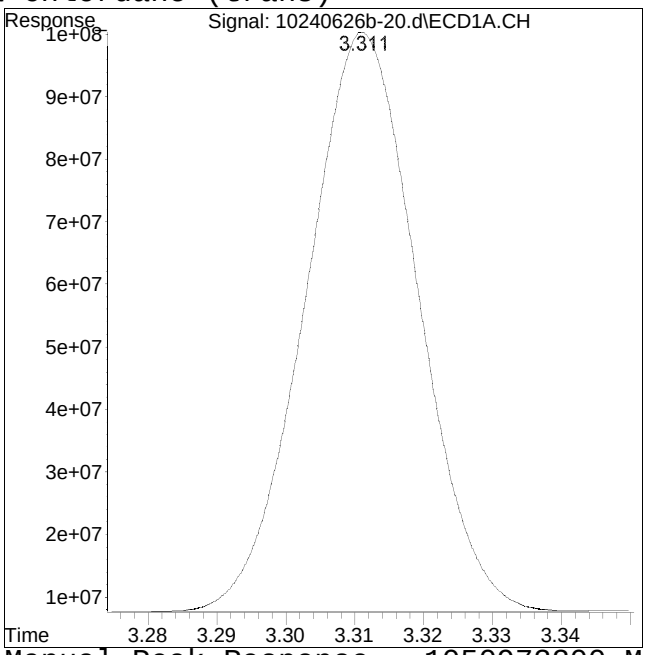
Original Peak Response = 260727042 Manual Peak Response = 257061550 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240626QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240626b-20.d Operator : PEST10:peg
Date Inj'd : 6/26/2024 20:40 Instrument : Pest 10
Sample : WG1939408-3,42,, Quant Date : 6/27/2024 6:55 am

Compound #13: gamma-Chlordane (trans)



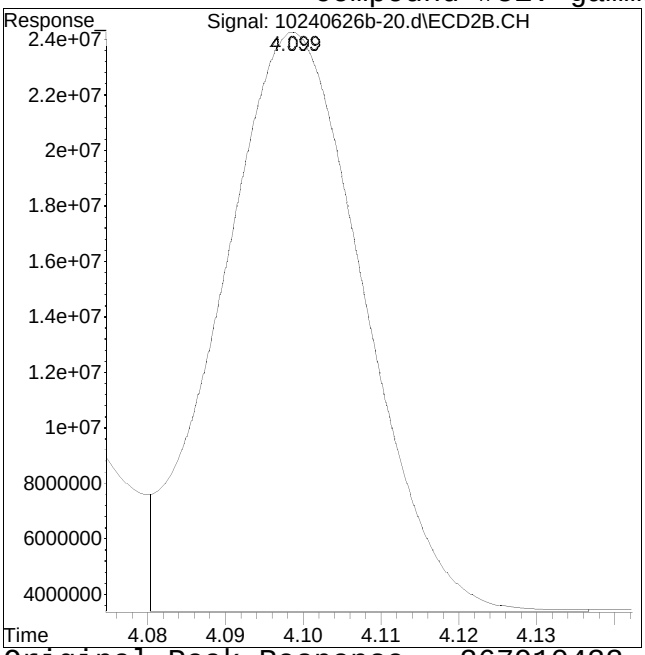


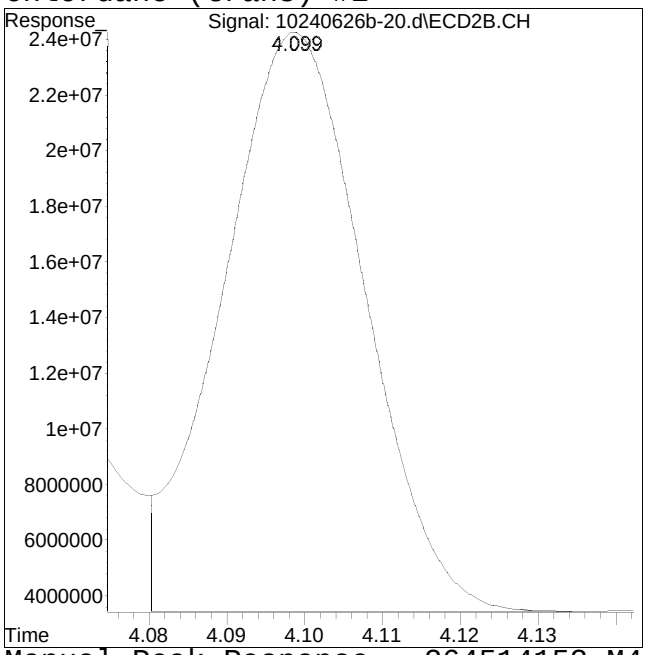
Original Peak Response = 1063790636 Manual Peak Response = 1050973200 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240626QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240626b-20.d Operator : PEST10:peg
Date Inj'd : 6/26/2024 20:40 Instrument : Pest 10
Sample : WG1939408-3,42,, Quant Date : 6/27/2024 6:55 am

Compound #51: gamma-Chlordane (trans) #2



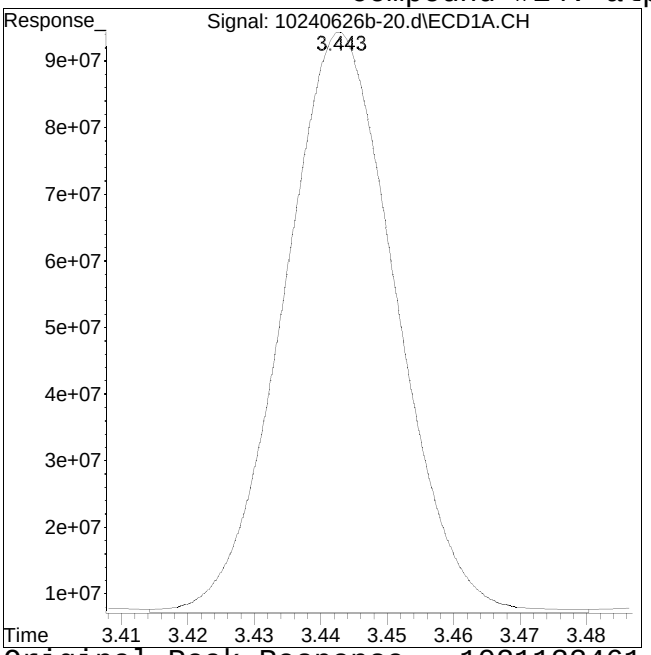


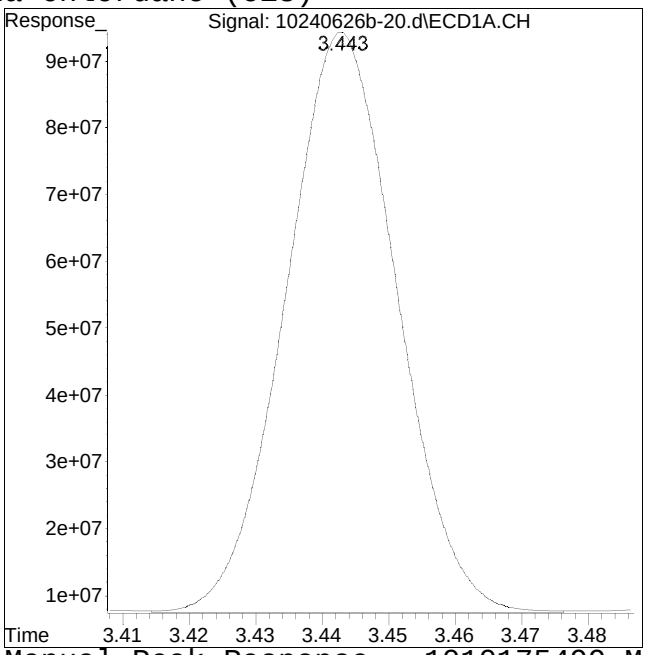
Original Peak Response = 267910433 Manual Peak Response = 264514152 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240626QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240626b-20.d Operator : PEST10:peg
Date Inj'd : 6/26/2024 20:40 Instrument : Pest 10
Sample : WG1939408-3,42,, Quant Date : 6/27/2024 6:55 am

Compound #14: alpha-Chlordane (cis)



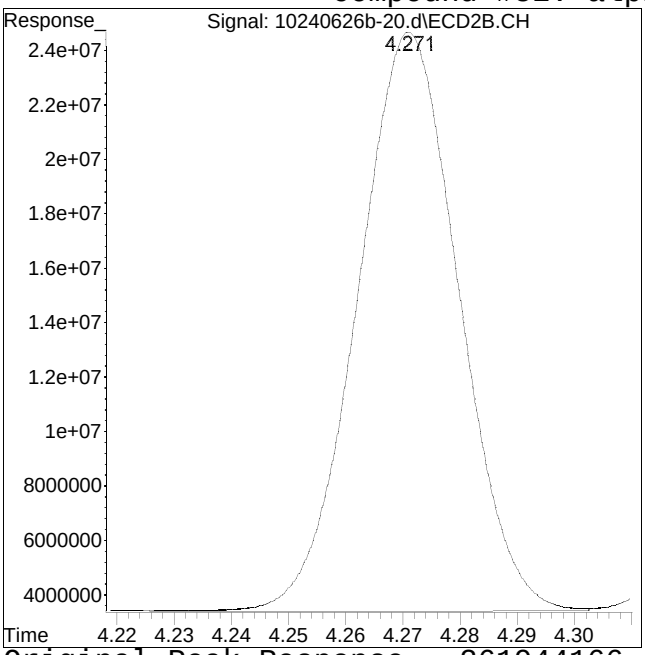


Original Peak Response = 1021123461 Manual Peak Response = 1010175499 M4
M4 = Poor automated baseline construction.

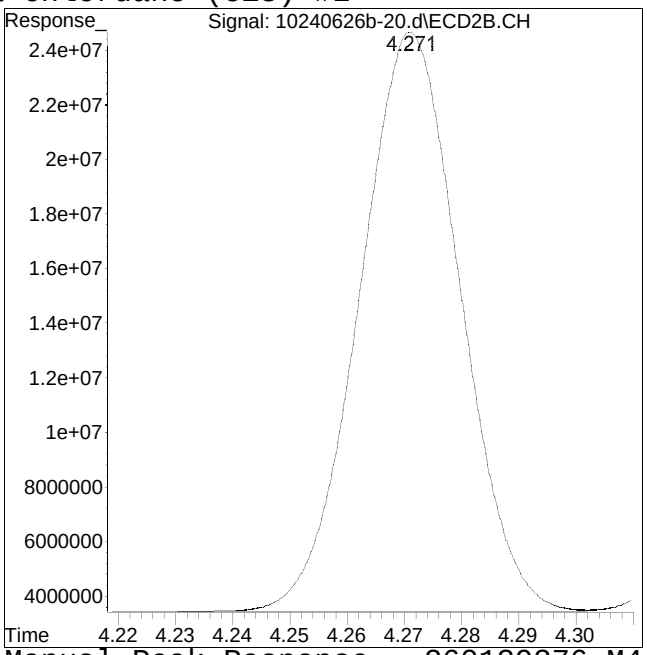
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240626QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240626b-20.d Operator : PEST10:peg
Date Inj'd : 6/26/2024 20:40 Instrument : Pest 10
Sample : WG1939408-3,42,, Quant Date : 6/27/2024 6:55 am

Compound #52: alpha-Chlordane (cis) #2



Original Peak Response = 261944166



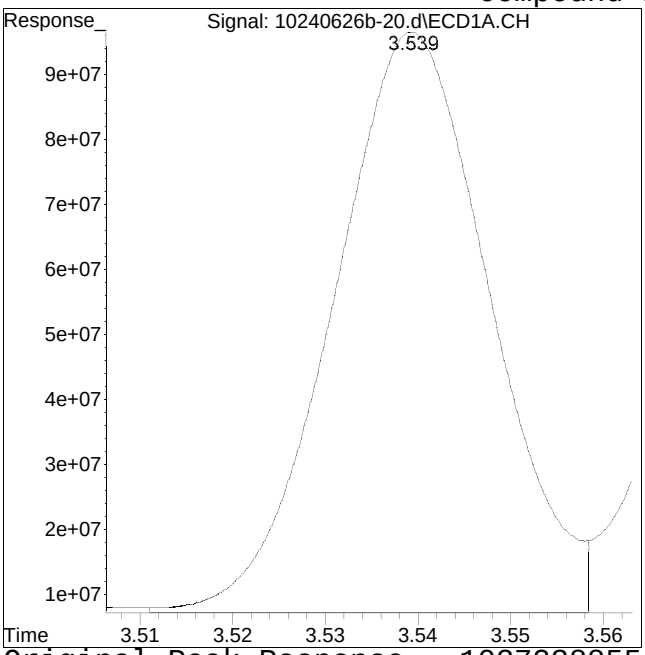
Manual Peak Response = 260139376 M4

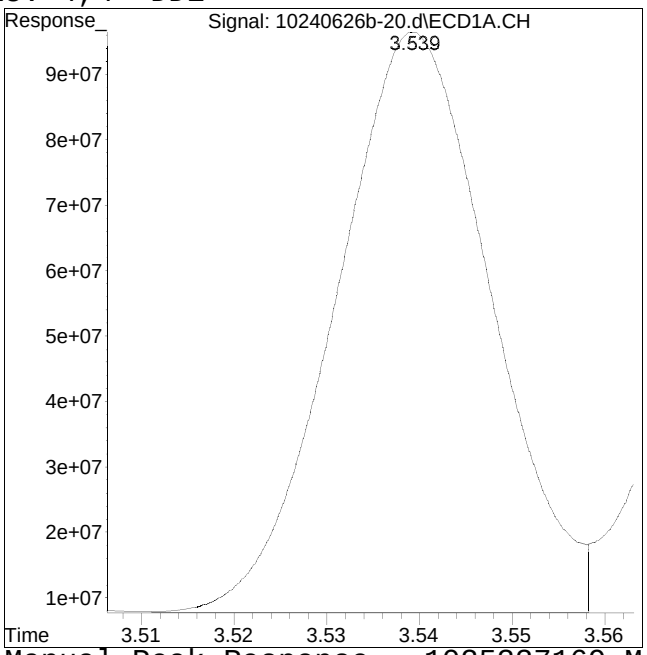
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240626QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240626b-20.d Operator : PEST10:peg
Date Inj'd : 6/26/2024 20:40 Instrument : Pest 10
Sample : WG1939408-3,42,, Quant Date : 6/27/2024 6:55 am

Compound #15: 4,4'-DDE



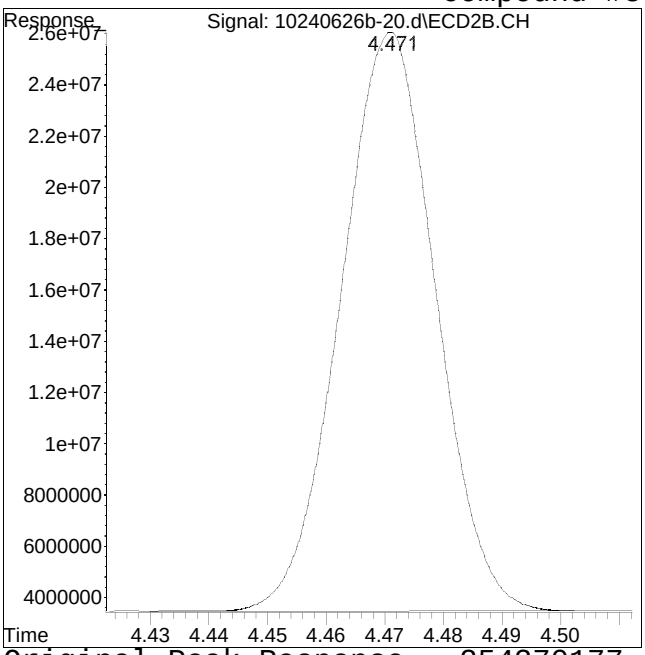


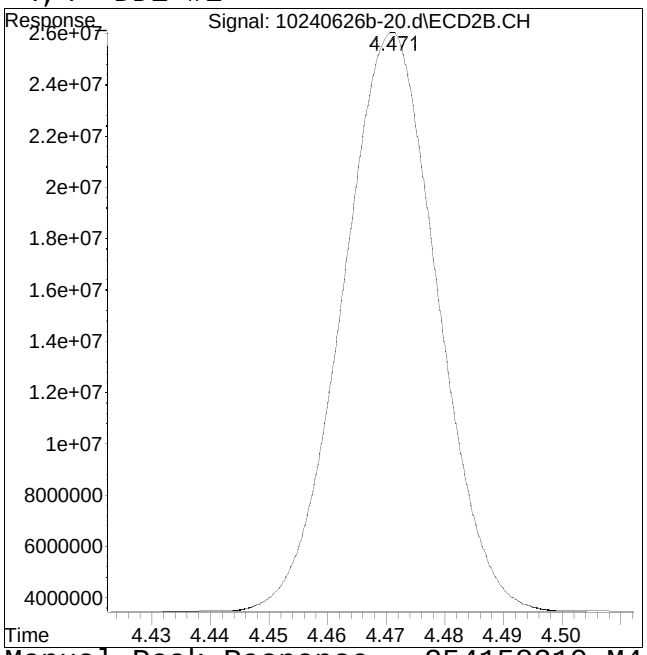
Original Peak Response = 1037238855 Manual Peak Response = 1025337169 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240626QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240626b-20.d Operator : PEST10:peg
Date Inj'd : 6/26/2024 20:40 Instrument : Pest 10
Sample : WG1939408-3,42,, Quant Date : 6/27/2024 6:55 am

Compound #53: 4,4'-DDE #2



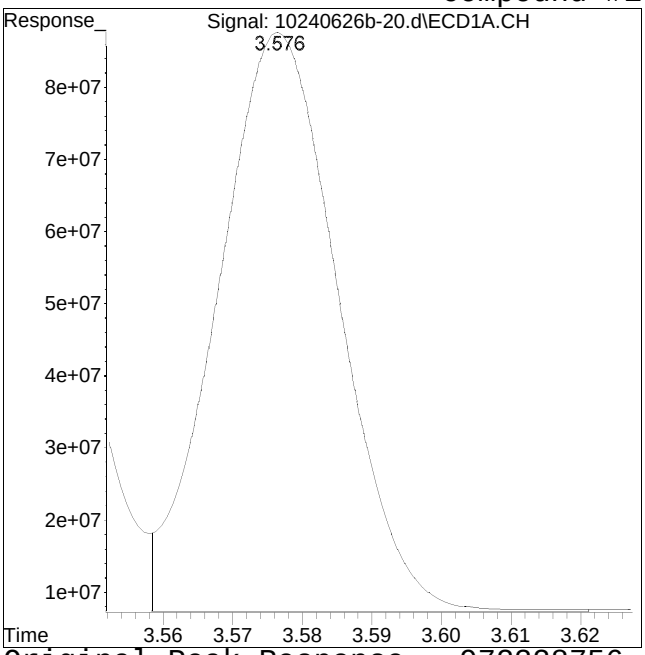


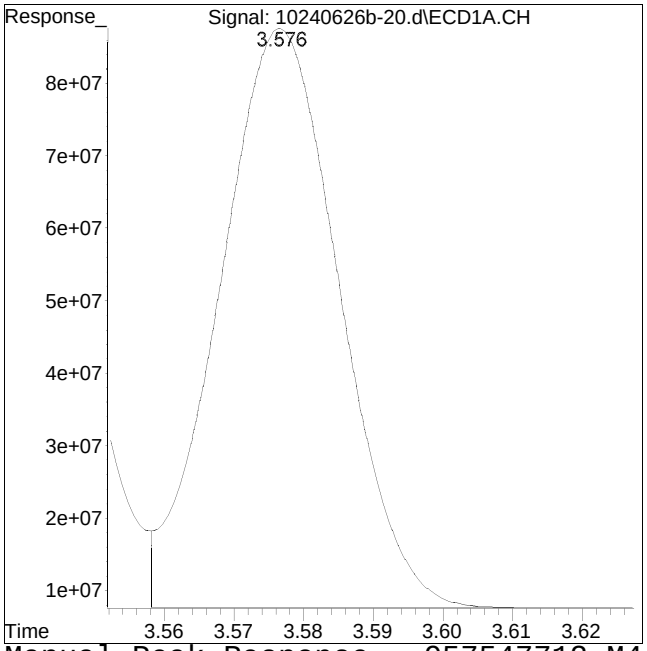
Original Peak Response = 254370177 Manual Peak Response = 254158210 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240626QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240626b-20.d Operator : PEST10:peg
Date Inj'd : 6/26/2024 20:40 Instrument : Pest 10
Sample : WG1939408-3,42,, Quant Date : 6/27/2024 6:55 am

Compound #16: Endosulfan I



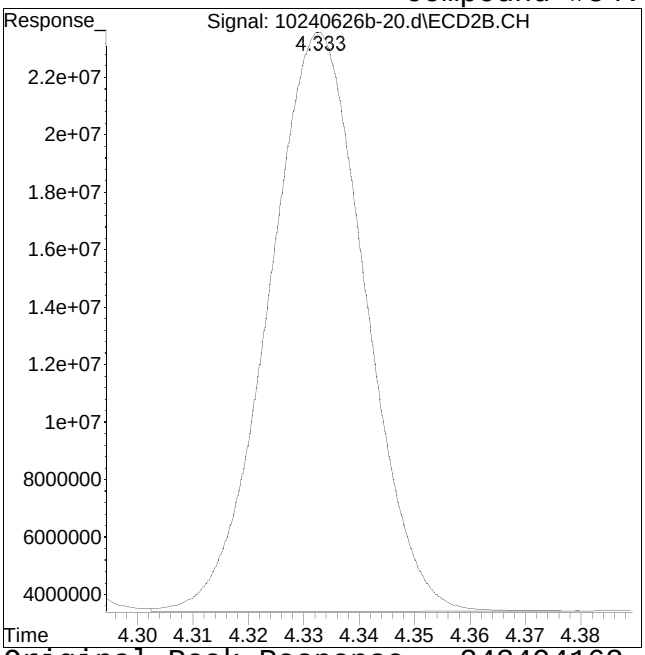


Original Peak Response = 972328756 Manual Peak Response = 957547712 M4
M4 = Poor automated baseline construction.

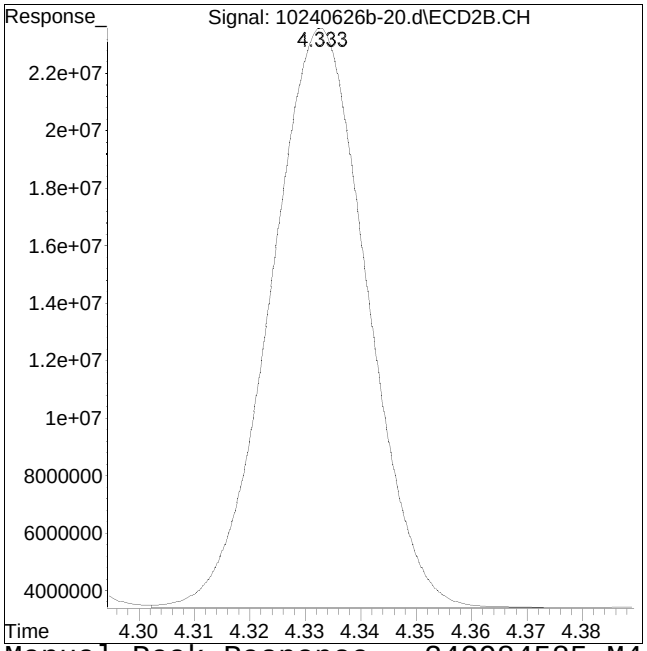
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240626QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240626b-20.d Operator : PEST10:peg
Date Inj'd : 6/26/2024 20:40 Instrument : Pest 10
Sample : WG1939408-3,42,, Quant Date : 6/27/2024 6:55 am

Compound #54: Endosulfan I #2



Original Peak Response = 243494163



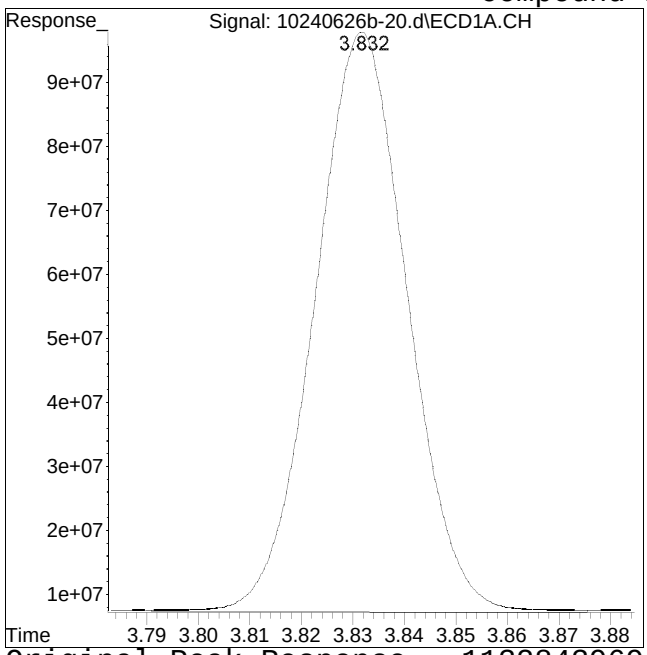
Manual Peak Response = 242984585 M4

M4 = Poor automated baseline construction.

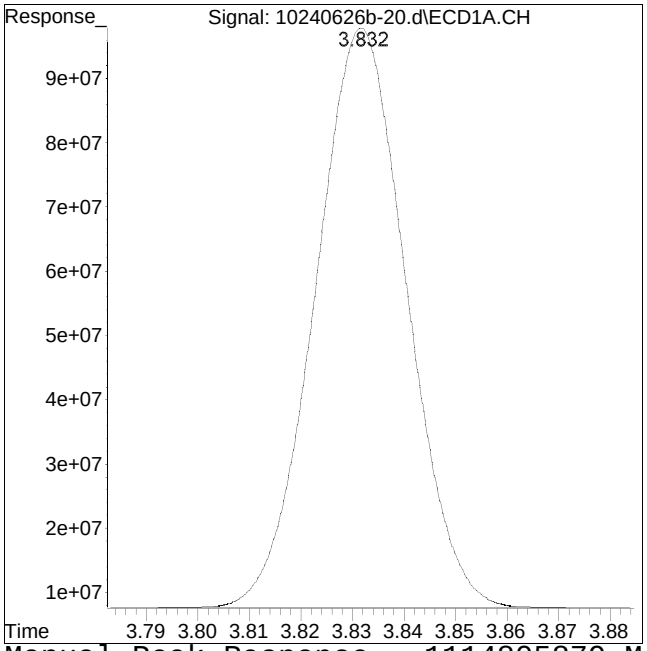
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240626QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240626b-20.d Operator : PEST10:peg
Date Inj'd : 6/26/2024 20:40 Instrument : Pest 10
Sample : WG1939408-3,42,, Quant Date : 6/27/2024 6:55 am

Compound #17: Dieldrin



Original Peak Response = 1132843969



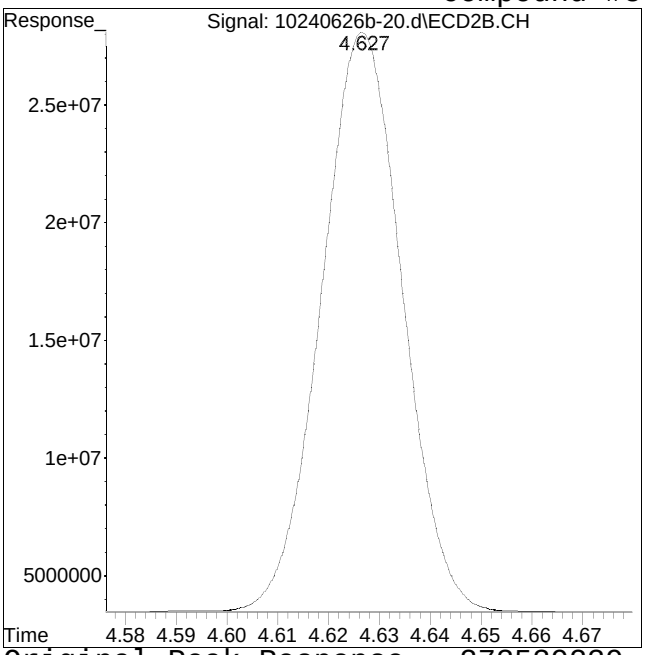
Manual Peak Response = 1114805879 M4

M4 = Poor automated baseline construction.

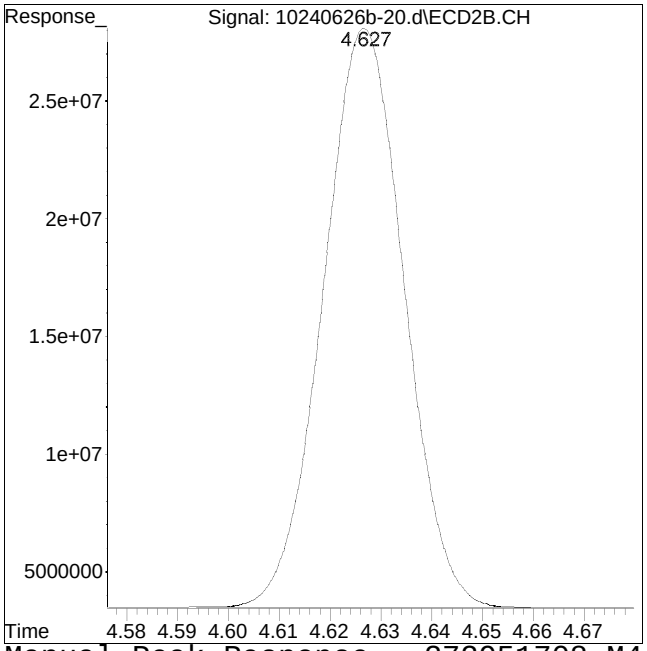
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240626QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240626b-20.d Operator : PEST10:peg
Date Inj'd : 6/26/2024 20:40 Instrument : Pest 10
Sample : WG1939408-3,42,, Quant Date : 6/27/2024 6:55 am

Compound #55: Dieldrin #2



Original Peak Response = 273539239

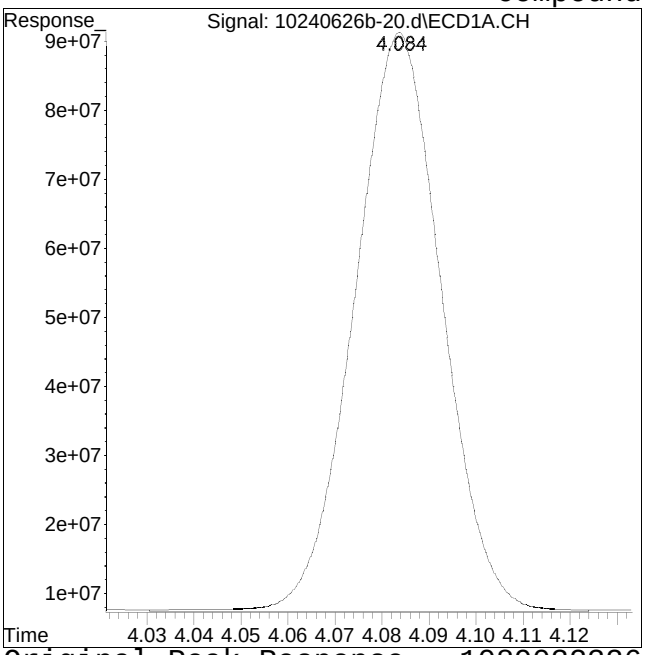


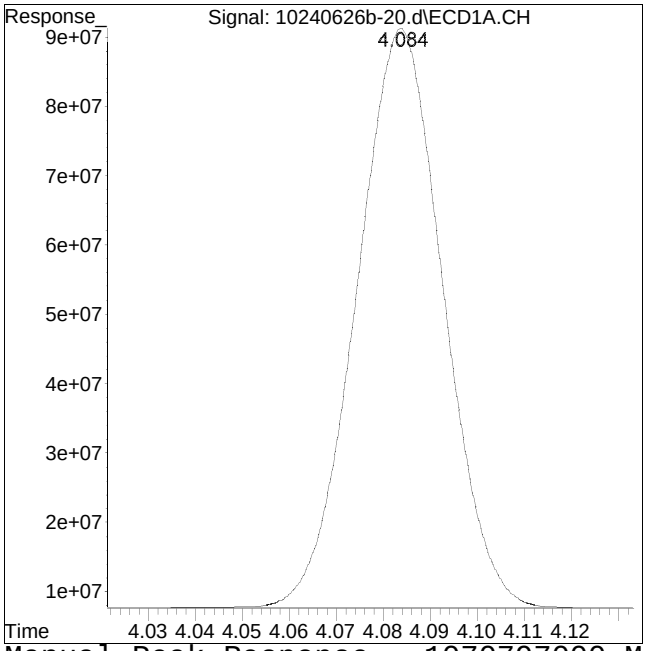
Manual Peak Response = 272951708 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240626QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240626b-20.d Operator : PEST10:peg
Date Inj'd : 6/26/2024 20:40 Instrument : Pest 10
Sample : WG1939408-3,42,, Quant Date : 6/27/2024 6:55 am

Compound #18: Endrin



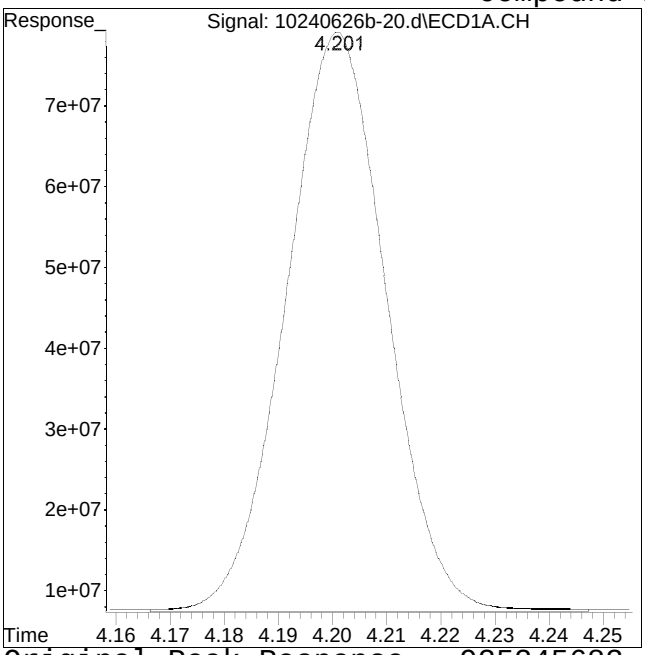


Original Peak Response = 1089032326 Manual Peak Response = 1070797000 M4
M4 = Poor automated baseline construction.

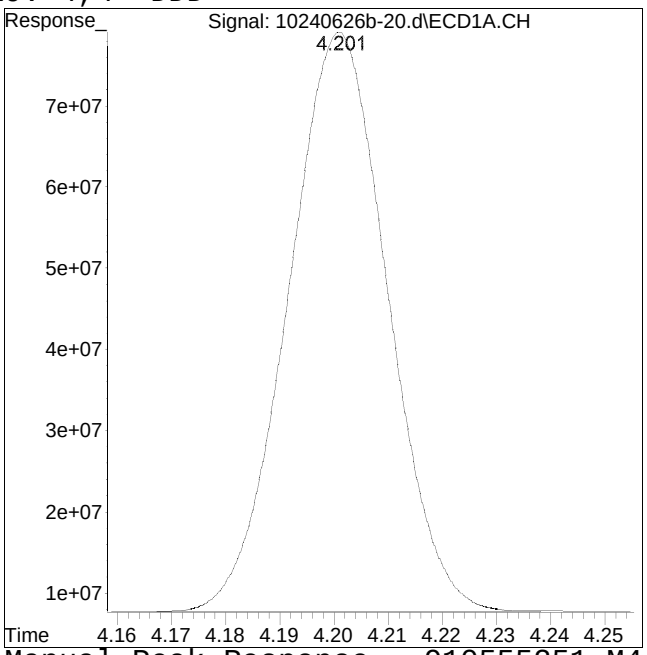
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240626QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240626b-20.d Operator : PEST10:peg
Date Inj'd : 6/26/2024 20:40 Instrument : Pest 10
Sample : WG1939408-3,42,, Quant Date : 6/27/2024 6:55 am

Compound #19: 4,4'-DDD



Original Peak Response = 925245683

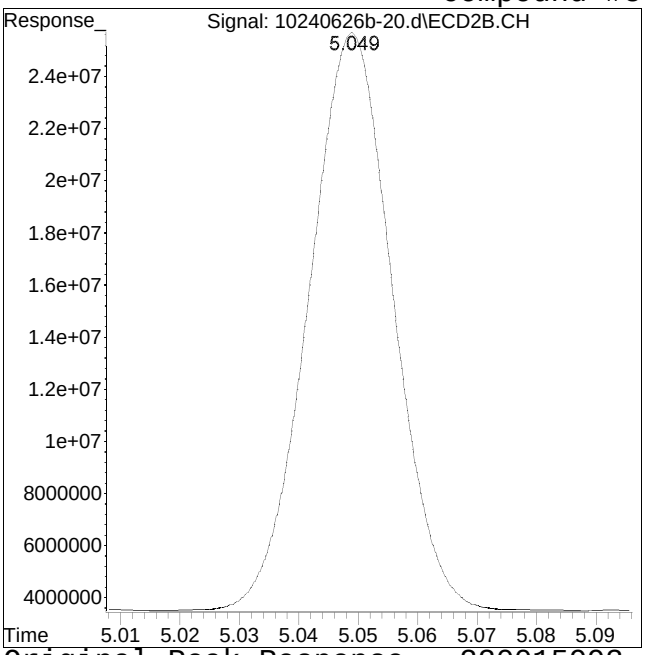


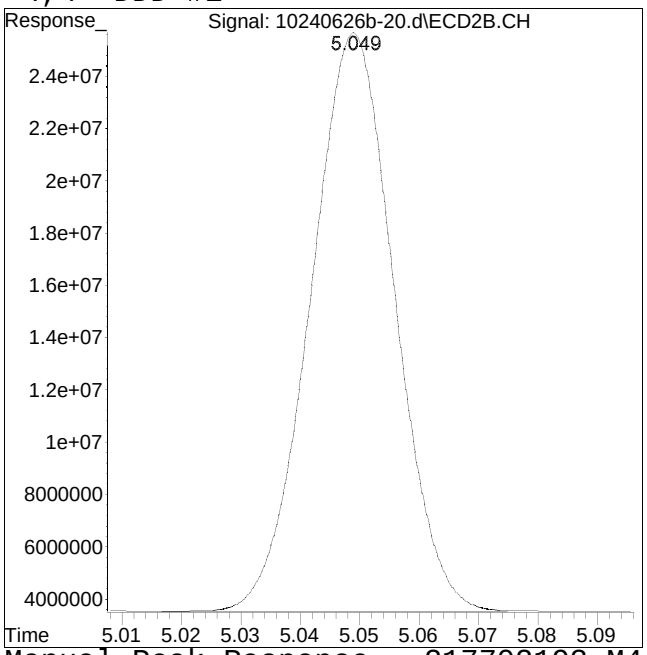
Manual Peak Response = 910555251 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240626QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240626b-20.d Operator : PEST10:peg
Date Inj'd : 6/26/2024 20:40 Instrument : Pest 10
Sample : WG1939408-3,42,, Quant Date : 6/27/2024 6:55 am

Compound #57: 4,4'-DDD #2



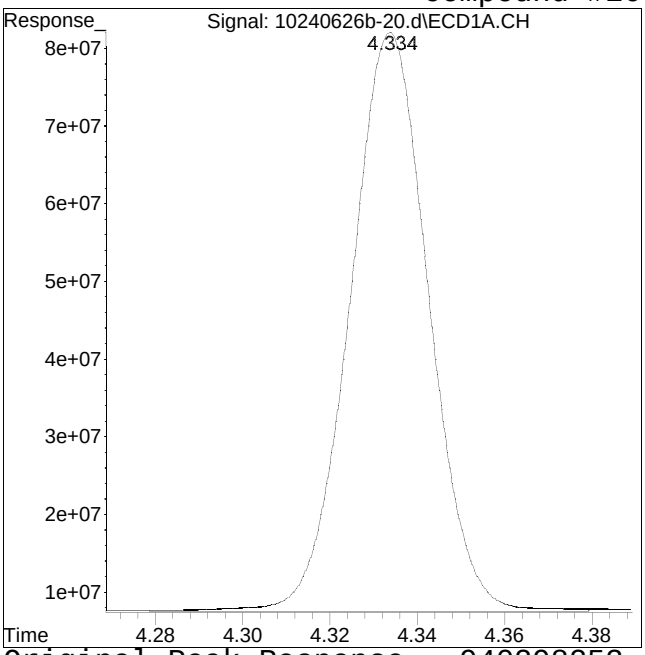


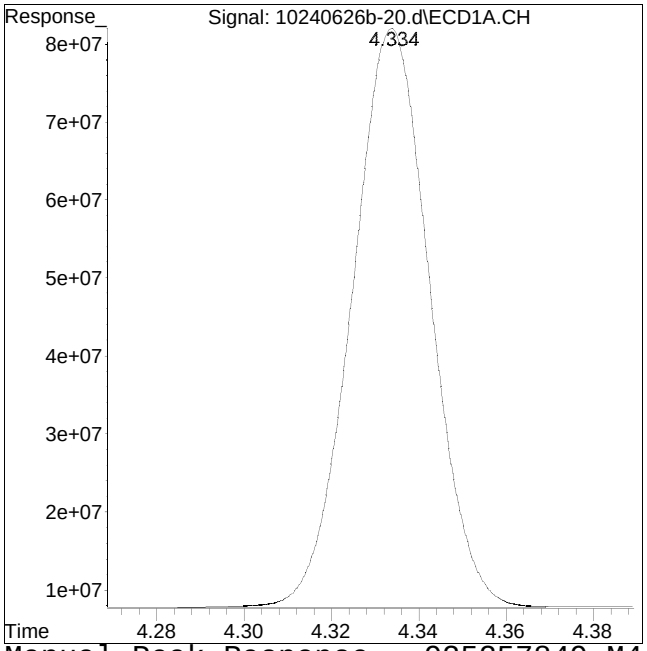
Original Peak Response = 220015993 Manual Peak Response = 217702193 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240626QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240626b-20.d Operator : PEST10:peg
Date Inj'd : 6/26/2024 20:40 Instrument : Pest 10
Sample : WG1939408-3,42,, Quant Date : 6/27/2024 6:55 am

Compound #20: Endosulfan II



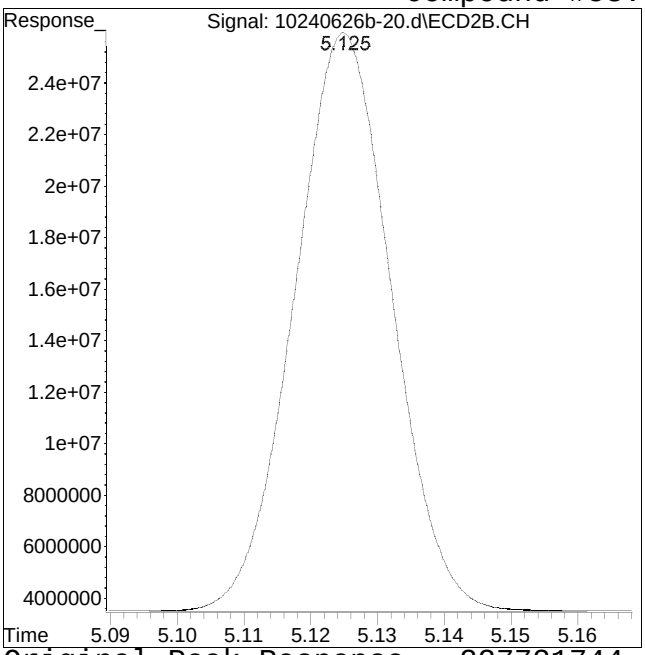


Original Peak Response = 940298253 Manual Peak Response = 925257849 M4
M4 = Poor automated baseline construction.

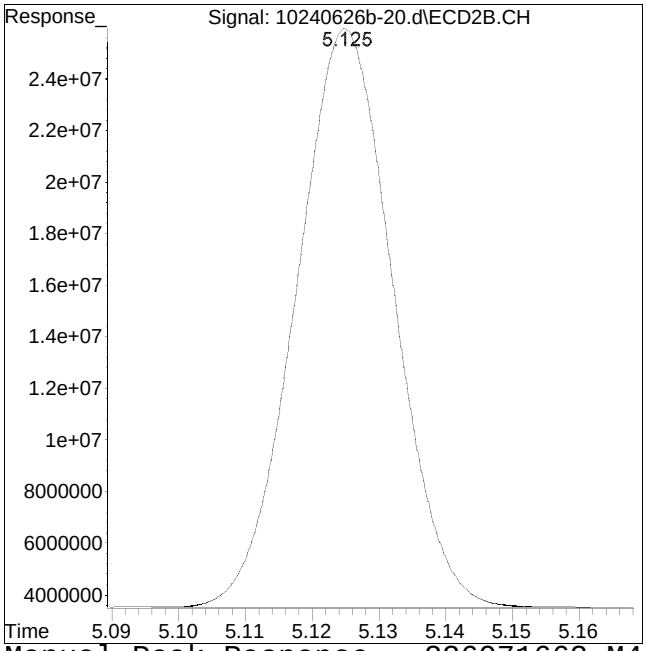
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240626QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240626b-20.d Operator : PEST10:peg
Date Inj'd : 6/26/2024 20:40 Instrument : Pest 10
Sample : WG1939408-3,42,, Quant Date : 6/27/2024 6:55 am

Compound #58: Endosulfan II #2



Original Peak Response = 227721744



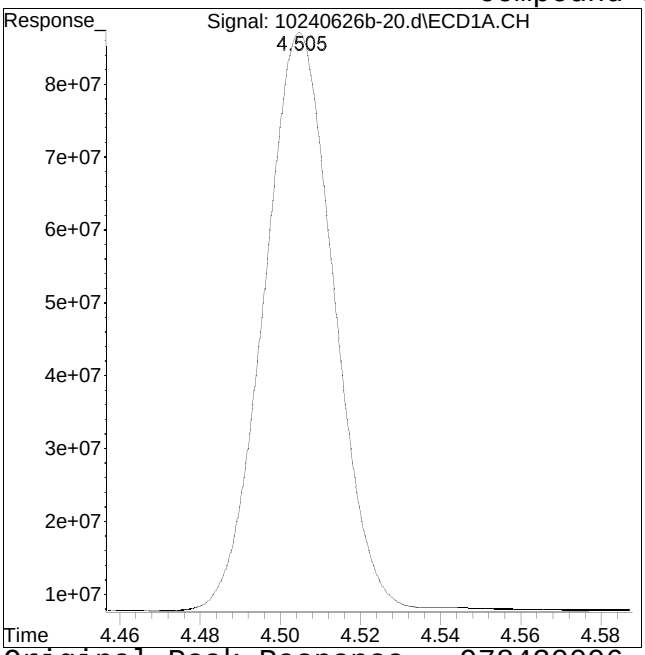
Manual Peak Response = 226971662 M4

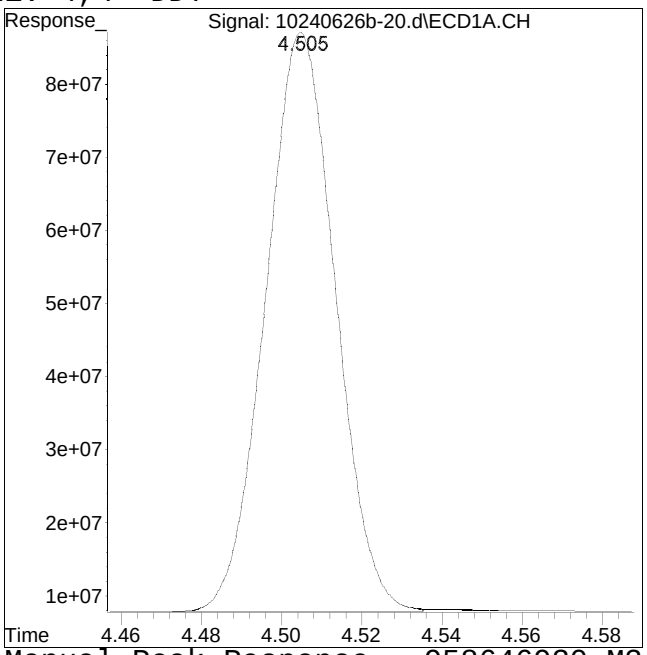
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240626QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240626b-20.d Operator : PEST10:peg
Date Inj'd : 6/26/2024 20:40 Instrument : Pest 10
Sample : WG1939408-3,42,, Quant Date : 6/27/2024 6:55 am

Compound #21: 4,4'-DDT



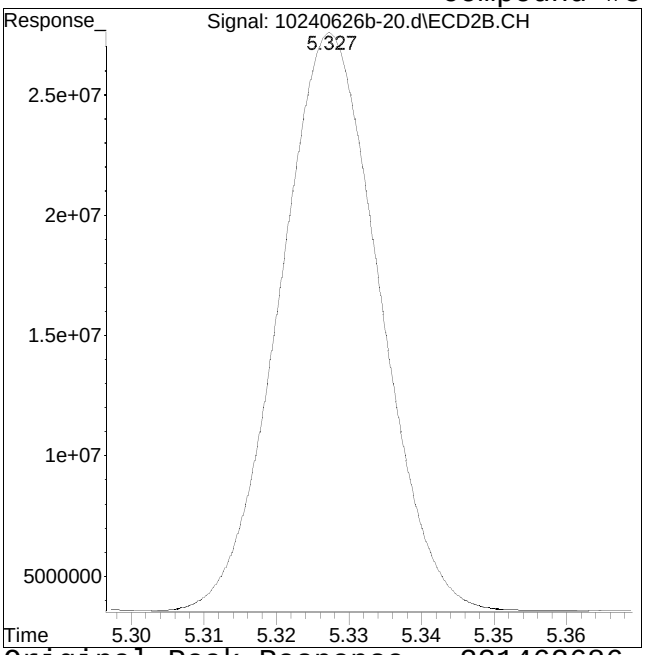


Original Peak Response = 978430006 Manual Peak Response = 958646930 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

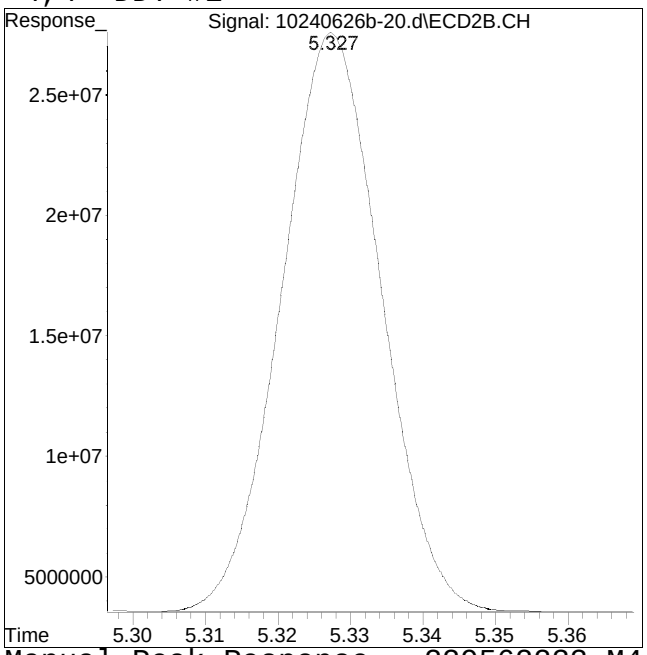
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240626QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240626b-20.d Operator : PEST10:peg
Date Inj'd : 6/26/2024 20:40 Instrument : Pest 10
Sample : WG1939408-3,42,, Quant Date : 6/27/2024 6:55 am

Compound #59: 4,4'-DDT #2



Original Peak Response = 231462686



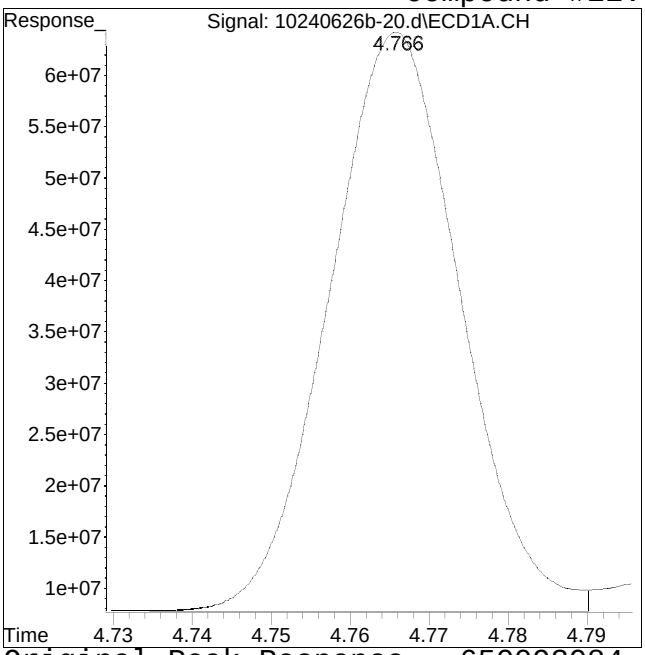
Manual Peak Response = 229562233 M4

M4 = Poor automated baseline construction.

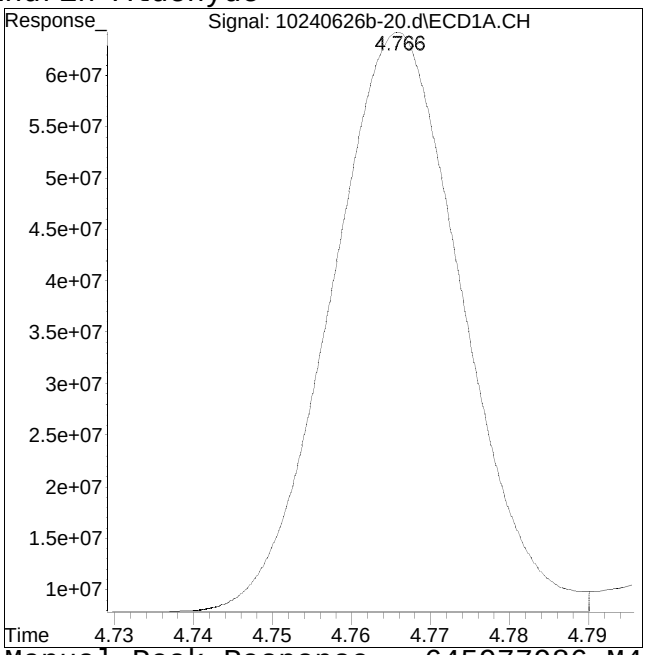
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240626QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240626b-20.d Operator : PEST10:peg
Date Inj'd : 6/26/2024 20:40 Instrument : Pest 10
Sample : WG1939408-3,42,, Quant Date : 6/27/2024 6:55 am

Compound #22: Endrin Aldehyde



Original Peak Response = 650093984



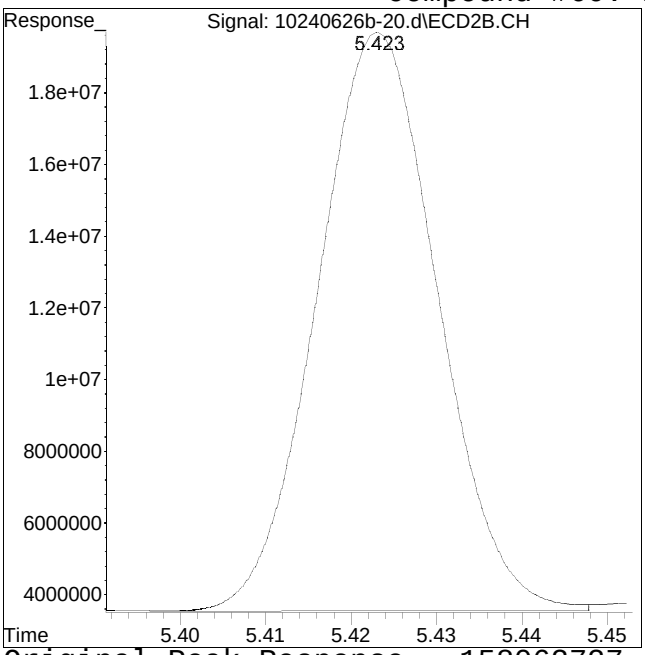
Manual Peak Response = 645977986 M4

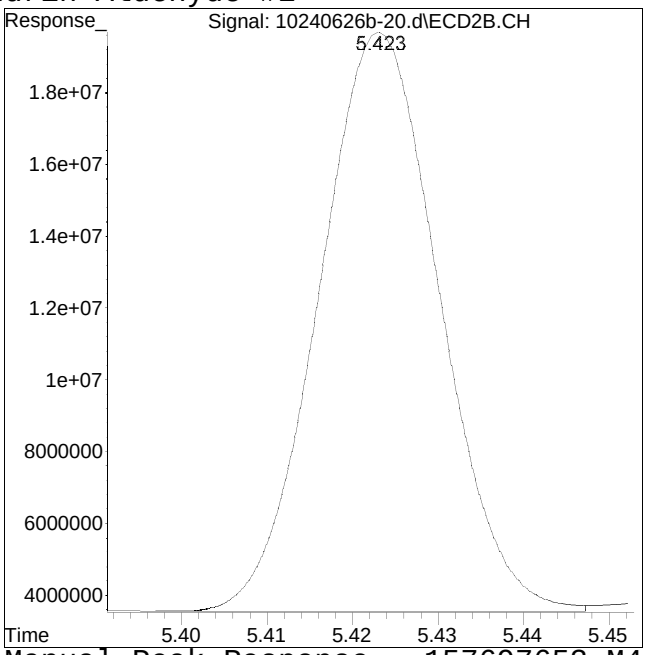
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240626QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240626b-20.d Operator : PEST10:peg
Date Inj'd : 6/26/2024 20:40 Instrument : Pest 10
Sample : WG1939408-3,42,, Quant Date : 6/27/2024 6:55 am

Compound #60: Endrin Aldehyde #2



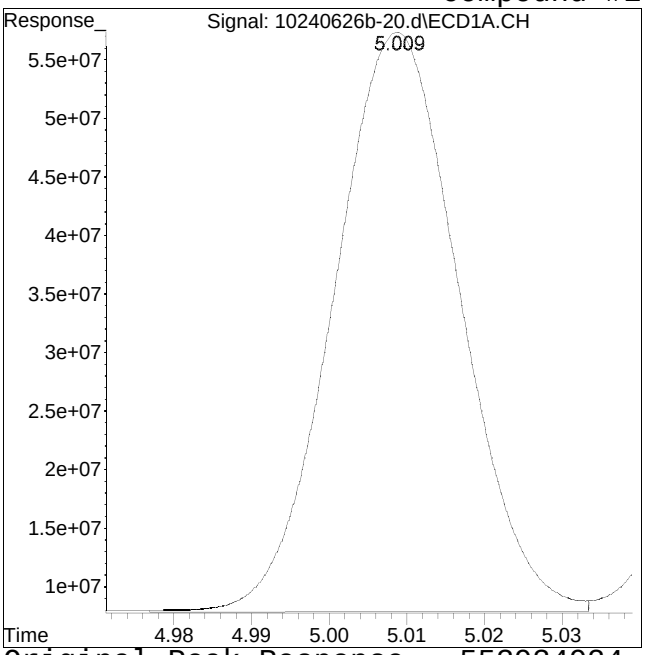


Original Peak Response = 158062727 Manual Peak Response = 157697653 M4
M4 = Poor automated baseline construction.

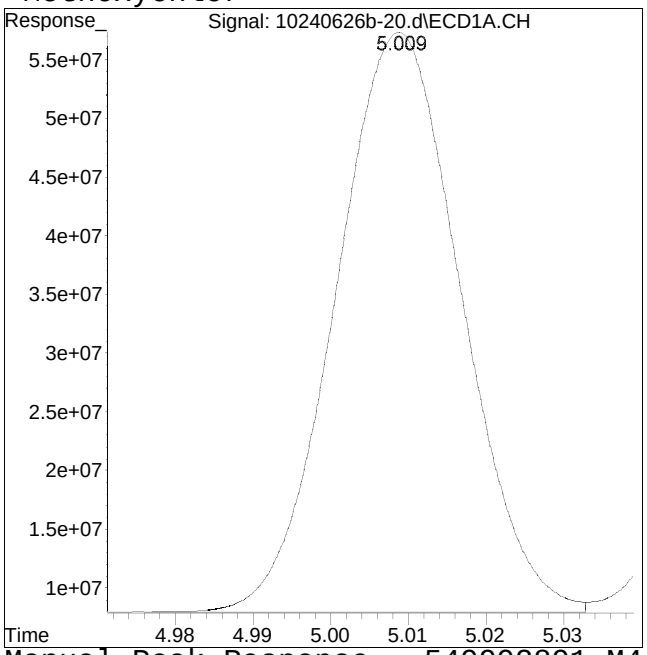
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240626QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240626b-20.d Operator : PEST10:peg
Date Inj'd : 6/26/2024 20:40 Instrument : Pest 10
Sample : WG1939408-3,42,, Quant Date : 6/27/2024 6:55 am

Compound #23: Methoxychlor



Original Peak Response = 553934924



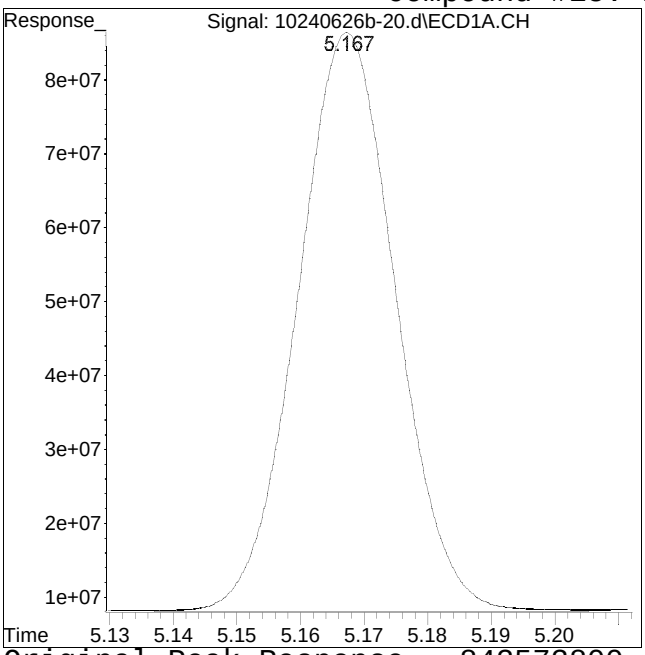
Manual Peak Response = 549992891 M4

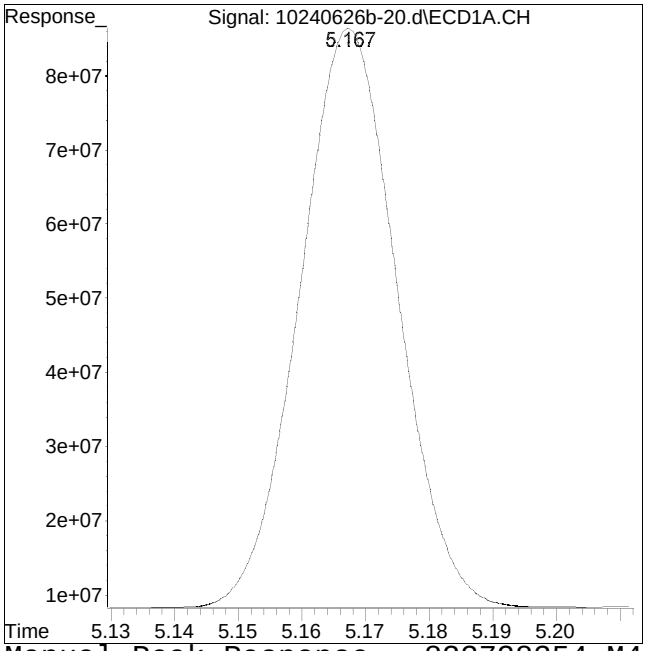
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240626QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240626b-20.d Operator : PEST10:peg
Date Inj'd : 6/26/2024 20:40 Instrument : Pest 10
Sample : WG1939408-3,42,, Quant Date : 6/27/2024 6:55 am

Compound #25: Endosulfan Sulfate



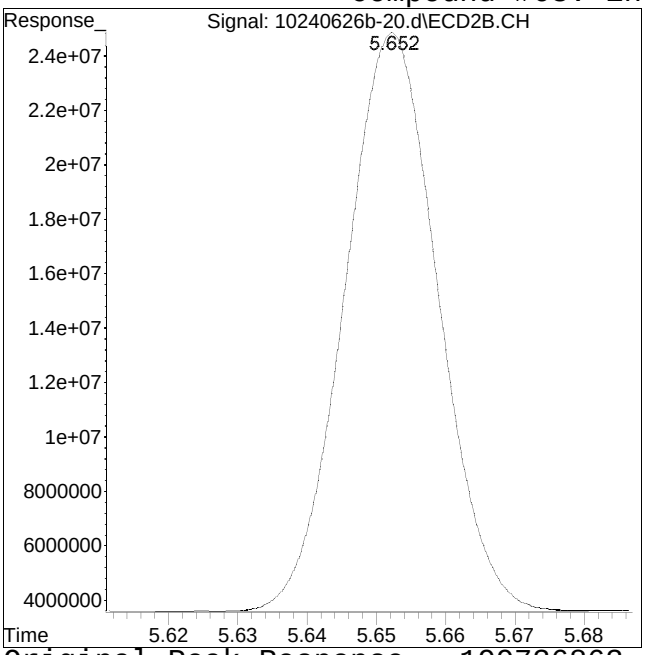


Original Peak Response = 843573800 Manual Peak Response = 833738354 M4
M4 = Poor automated baseline construction.

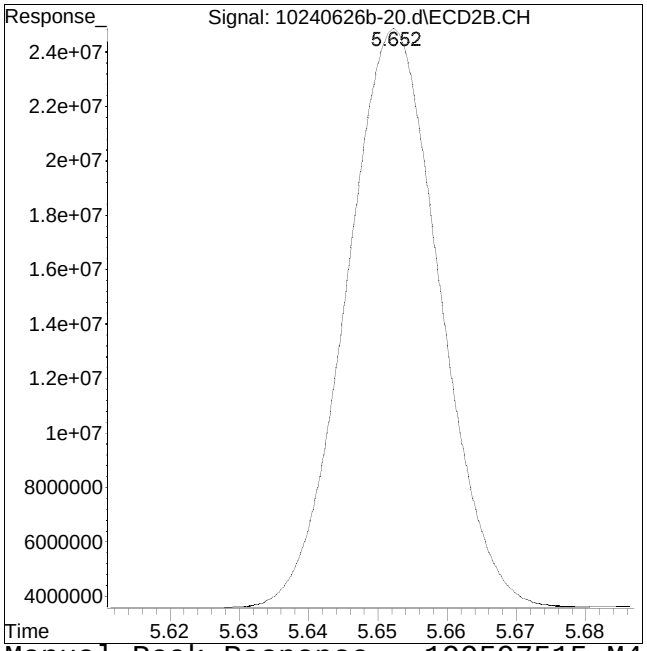
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240626QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240626b-20.d Operator : PEST10:peg
Date Inj'd : 6/26/2024 20:40 Instrument : Pest 10
Sample : WG1939408-3,42,, Quant Date : 6/27/2024 6:55 am

Compound #63: Endosulfan Sulfate #2



Original Peak Response = 199736863



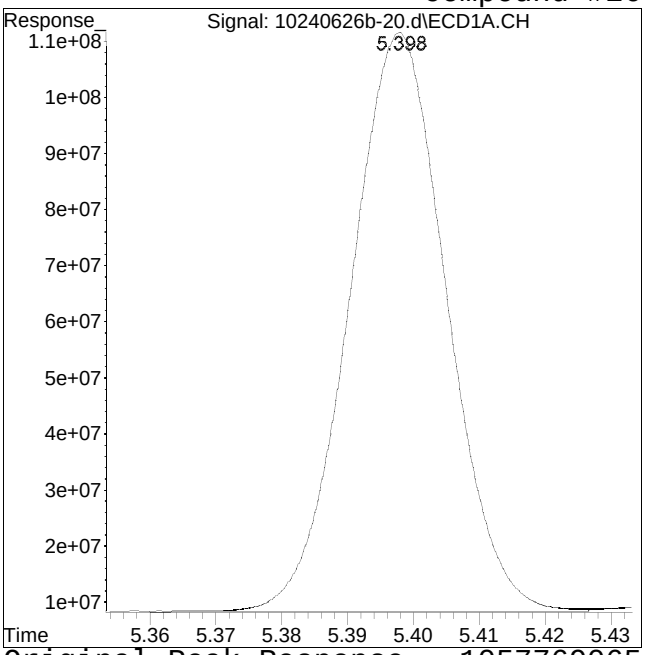
Manual Peak Response = 199597515 M4

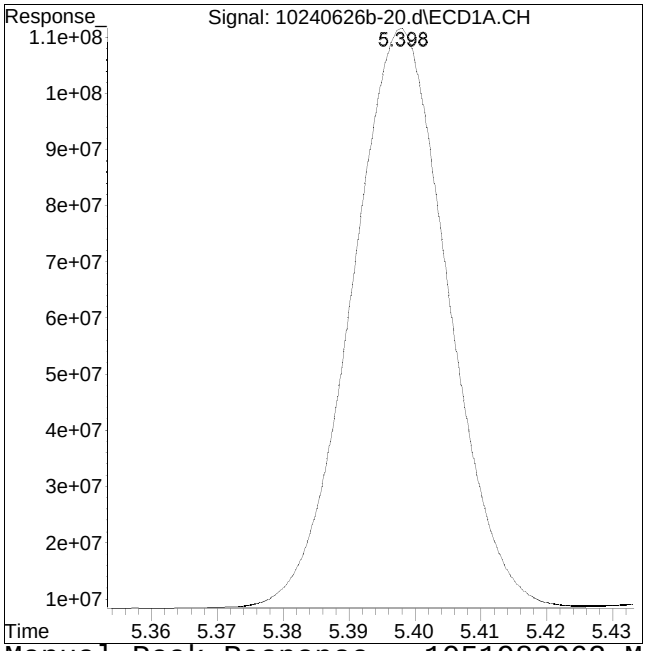
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240626QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240626b-20.d Operator : PEST10:peg
Date Inj'd : 6/26/2024 20:40 Instrument : Pest 10
Sample : WG1939408-3,42,, Quant Date : 6/27/2024 6:55 am

Compound #26: Endrin Ketone



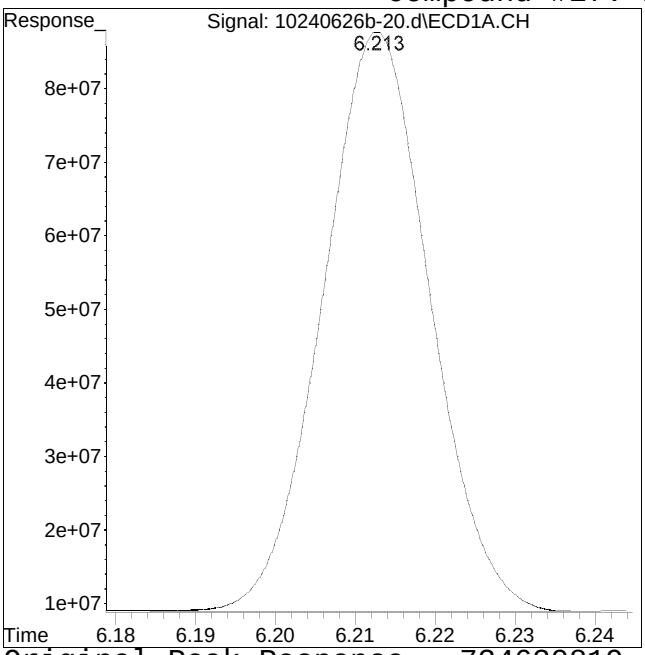


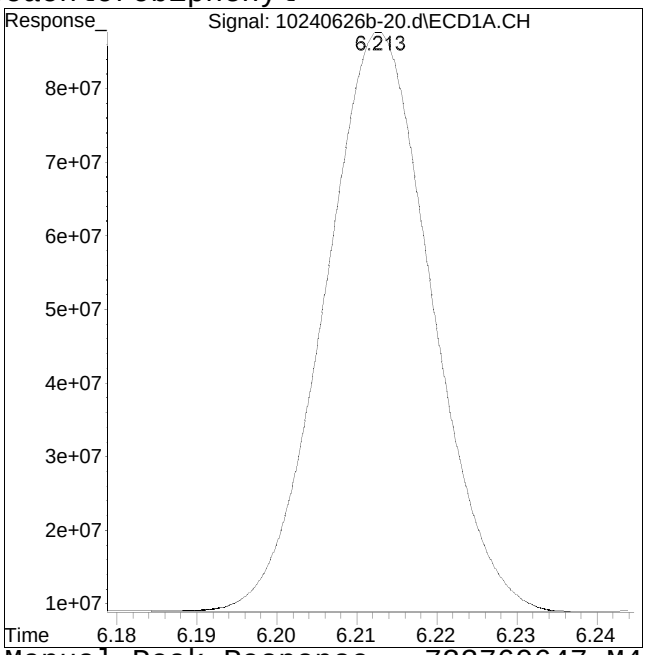
Original Peak Response = 1057769065 Manual Peak Response = 1051983062 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240626QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240626b-20.d Operator : PEST10:peg
Date Inj'd : 6/26/2024 20:40 Instrument : Pest 10
Sample : WG1939408-3,42,, Quant Date : 6/27/2024 6:55 am

Compound #27: Decachlorobiphenyl





Original Peak Response = 734630819 Manual Peak Response = 733760647 M4
M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest10\2024\240624B\
Data File : 10240624b-19.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 24 Jun 2024 19:14
Operator : PEST10:emr
Sample : WG1938134-4,42,, ms
Misc : wg1938709,WG1938134,ical21109
ALS Vial : 19 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 25 08:58:07 2024
Quant Method : I:\PEST\Pest10\2024\240624B\pest10_2024_05_02_ugL_ical21109.m
Quant Title : pest
QLast Update : Mon Jun 24 18:30:48 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PEST\Pest10\2024\240624B\10240624b-03.d
Sub List : LCS_MS - spk only

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Internal Standards							
1) i	1-br-2-nb_Pe	1.252	1.367	504.2E6	146.3E6	25.000M4	25.000
	Standard Area 1 : #1 = 521435419				Recovery =	96.70%	
	Standard Area 1 : #2 = 149552544				Recovery =	97.84%	
System Monitoring Compounds							
2) s	2,4,5,6-Tetr	1.588	1.847	661.9E6	186.0E6	30.238M4	33.802
	Spiked Amount 50.000	Range 30 - 150		Recovery =	60.48%	67.60%	
27) s	Decachlorobi	6.220	6.931	707.1E6	173.4E6	43.262M4	40.842
	Spiked Amount 50.000	Range 30 - 150		Recovery =	86.52%	81.68%	
Target Compounds							
4) t	alpha-BHC	1.893	2.265	1124.0E6	296.6E6	36.897M4	37.861M4
5) t	gamma-BHC (l	2.090	2.552	1041.2E6	279.0E6	36.063M4	37.916
6) t	beta-BHC	2.145	2.615	449.4E6	124.0E6	38.884M4	38.388M4
7) t	delta-BHC	2.270	2.883	990.6E6	253.6E6	34.775M4	34.318M4
8) t	Heptachlor	2.427	2.949	1069.5E6	265.2E6	39.006M4	36.298M4
9) t	Aldrin	2.664	3.268	927.3E6	245.1E6	35.860M4	36.831M4
12) t	Heptachlor E	3.197	3.885	926.2E6	236.0E6	37.596M4	35.475M4
13) t	gamma-Chlord	3.318	4.106	937.1E6	246.4E6	41.585M4	41.627
14) t	alpha-Chlord	3.450	4.278	881.2E6	242.3E6	34.423M4	36.405
15) t	4,4'-DDE	3.547	4.477	910.1E6	237.9E6	37.543M4	38.659
16) t	Endosulfan I	3.584	4.339	861.7E6	226.4E6	36.736M4	36.571
17) t	Dieldrin	3.840	4.633	1011.8E6	254.3E6	41.798M4	41.036
18) t	Endrin	4.092	4.932	1003.3E6	243.6E6	40.354M4	38.311
19) t	4,4'-DDD	4.209	5.054	818.4E6	202.0E6	41.528M4	40.816M4
20) t	Endosulfan I	4.342	5.130	862.8E6	216.9E6	40.204M4	38.957M4
21) t	4,4'-DDT	4.513	5.332	845.2E6	214.1E6	38.751M4	38.118M4
22) t	Endrin Aldeh	4.773	5.428	520.6E6	134.8E6	31.746M4	29.935

Data Path : I:\PEST\Pest10\2024\240624B\
Data File : 10240624b-19.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 24 Jun 2024 19:14
Operator : PEST10:emr
Sample : WG1938134-4,42,, ms
Misc : wg1938709,WG1938134,ical21109
ALS Vial : 19 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 25 08:58:07 2024
Quant Method : I:\PEST\Pest10\2024\240624B\pest10_2024_05_02_ugL_ical21109.m
Quant Title : pest
QLast Update : Mon Jun 24 18:30:48 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PEST\Pest10\2024\240624B\10240624b-03.d
Sub List : LCS_MS - spk only

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
23) t Methoxychlor	5.015	5.899	521.3E6	120.7E6	51.686M4	42.739M4
25) t Endosulfan S	5.175	5.658	818.5E6	200.1E6	38.461M4	36.052
26) t Endrin Keton	5.405	6.071	981.0E6	241.2E6	42.028	39.883
Sum chlordane-1			0	0	N.D.	N.D.
Average chlordane-1					0.000	0.000
Sum toxaphene-1			0	0	N.D.	N.D.
Average toxaphene-1					0.000	0.000
SemiQuant Compounds - Not Calibrated on this Instrument						
Sum toxaphene-1			0	0	N.D.	N.D.
Average toxaphene-1					0.000	0.000

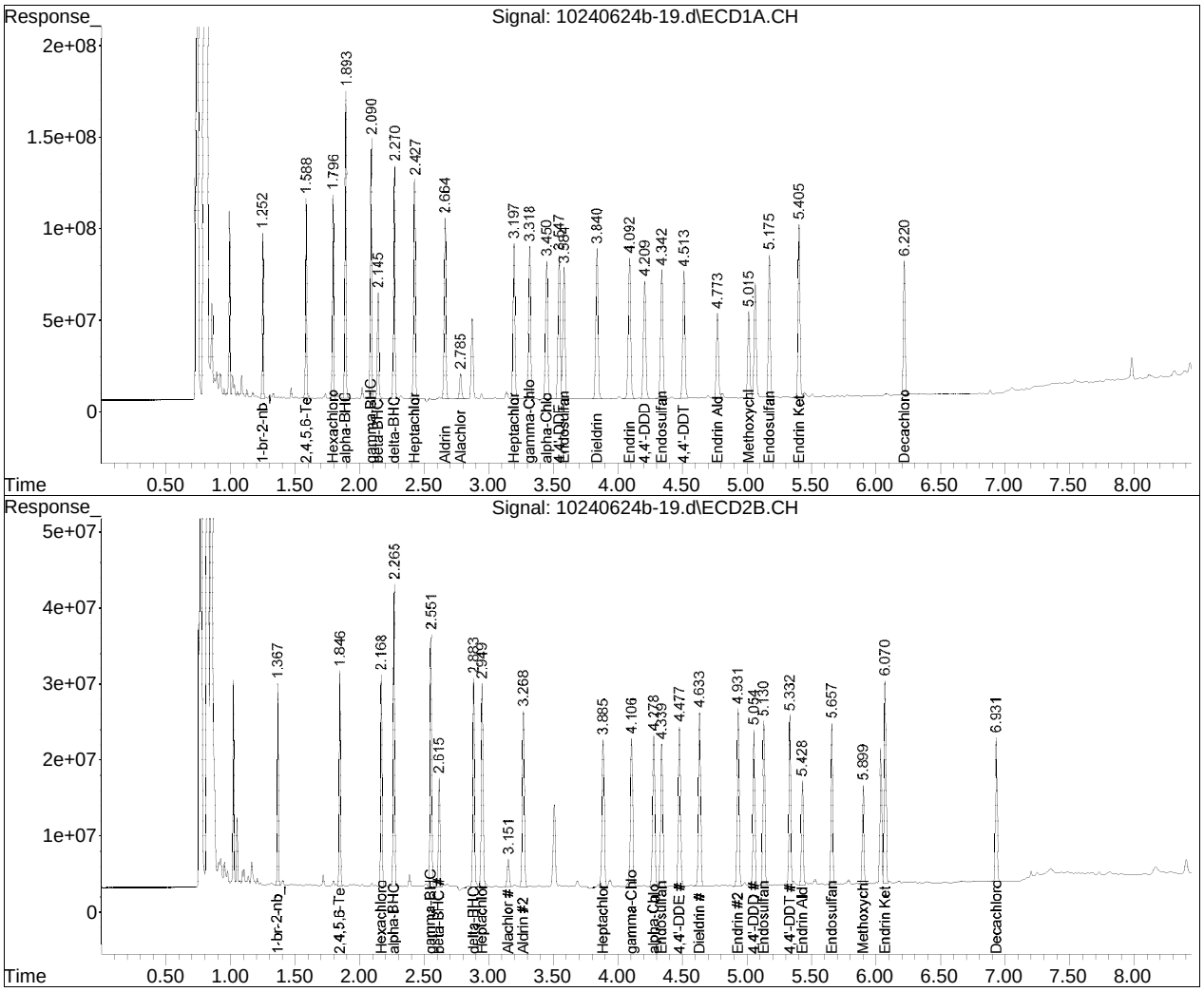
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : LCS_MS - spk only0\2024\240624B\10240624b-03.d•

Data Path : I:\PEST\Pest10\2024\240624B\
Data File : 10240624b-19.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 24 Jun 2024 19:14
Operator : PEST10:emr
Sample : WG1938134-4,42,, ms
Misc : wg1938709,WG1938134,ical21109
ALS Vial : 19 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 25 08:58:07 2024
Quant Method : I:\PEST\Pest10\2024\240624B\pest10_2024_05_02_ugL_ical21109.m
Quant Title : pest
QLast Update : Mon Jun 24 18:30:48 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

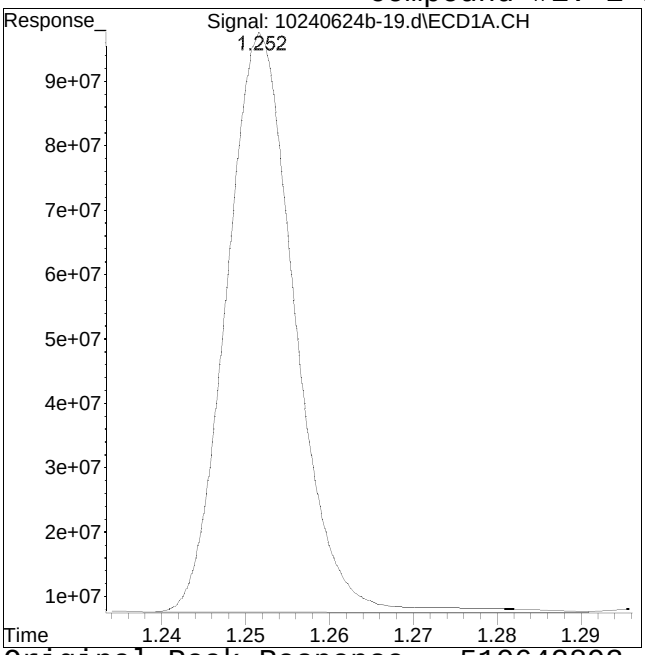
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



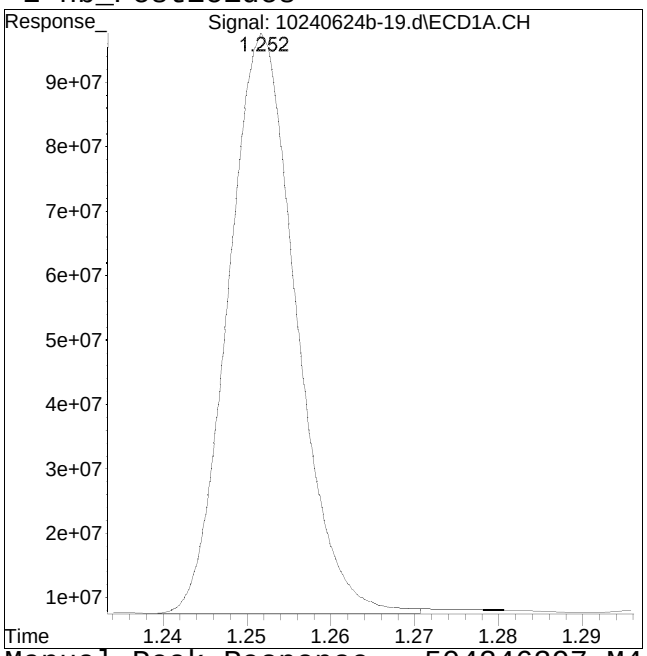
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240624QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240624b-19.d Operator : PEST10:emr
Date Inj'd : 6/24/2024 19:14 Instrument : Pest 10
Sample : WG1938134-4,42,, ms Quant Date : 6/25/2024 8:58 am

Compound #1: 1-br-2-nb_Pesticides



Original Peak Response = 510642893

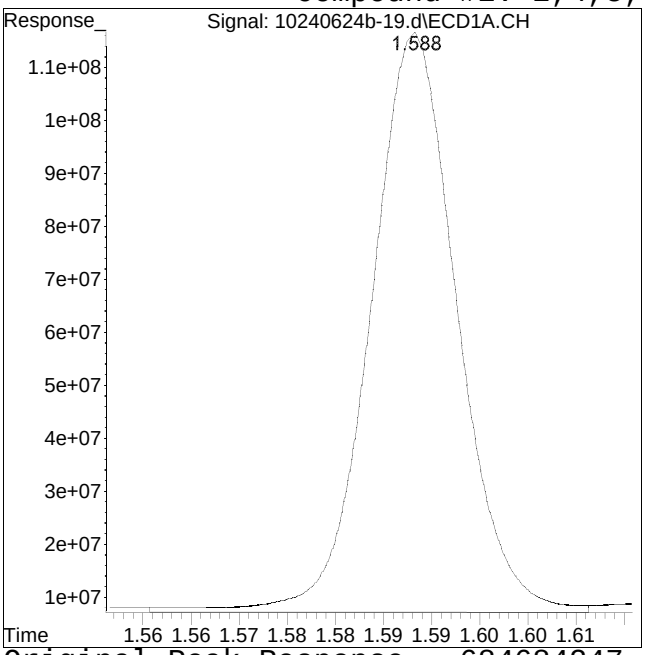


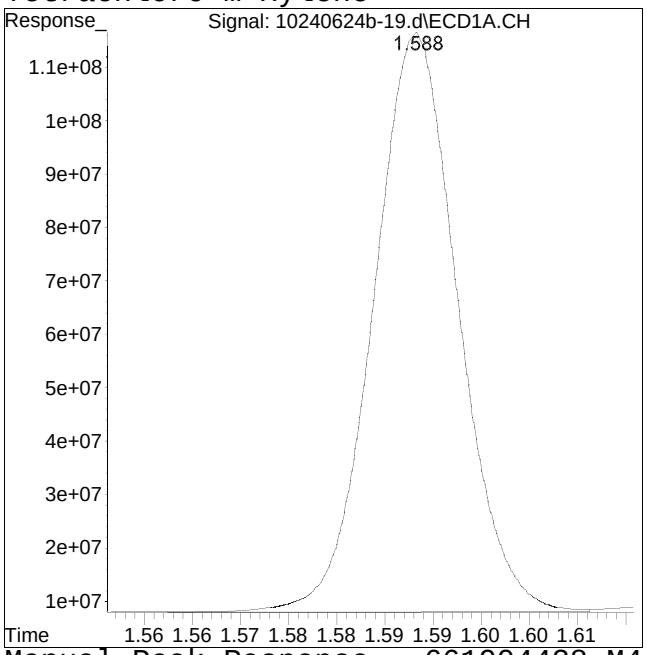
Manual Peak Response = 504246397 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240624QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240624b-19.d Operator : PEST10:emr
Date Inj'd : 6/24/2024 19:14 Instrument : Pest 10
Sample : WG1938134-4,42,, ms Quant Date : 6/25/2024 8:58 am

Compound #2: 2,4,5,6-Tetrachloro-m-xylene



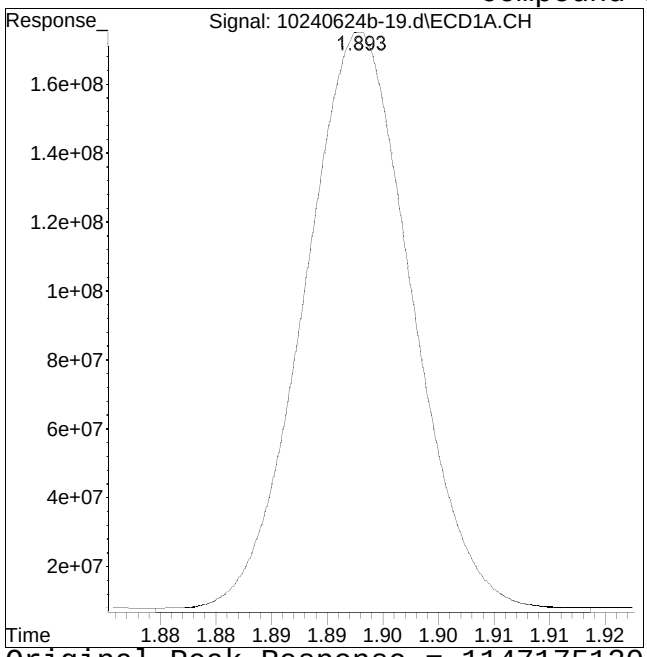


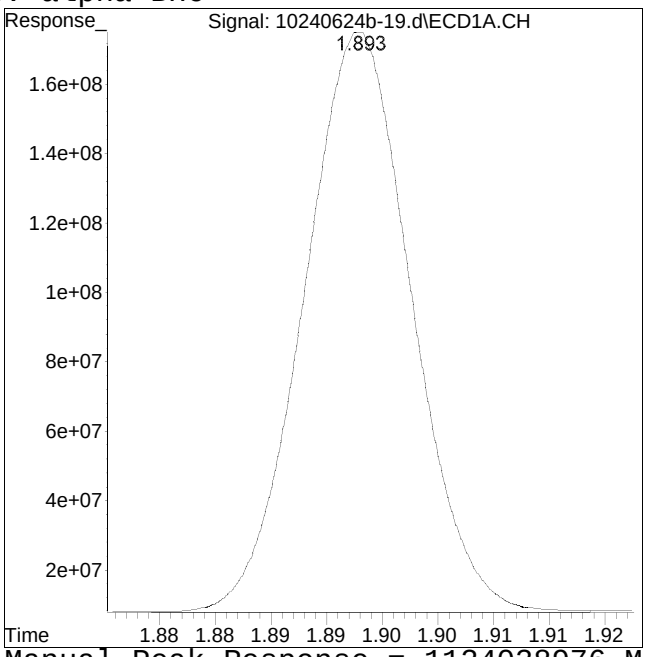
Original Peak Response = 684684247 Manual Peak Response = 661904428 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240624QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240624b-19.d Operator : PEST10:emr
Date Inj'd : 6/24/2024 19:14 Instrument : Pest 10
Sample : WG1938134-4,42,, ms Quant Date : 6/25/2024 8:58 am

Compound #4: alpha-BHC



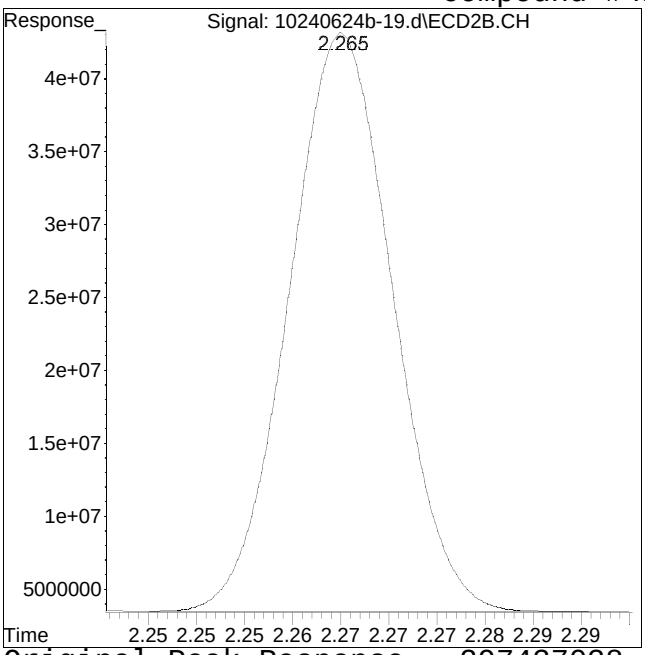


Original Peak Response = 1147175120 Manual Peak Response = 1124038976 M4
M4 = Poor automated baseline construction.

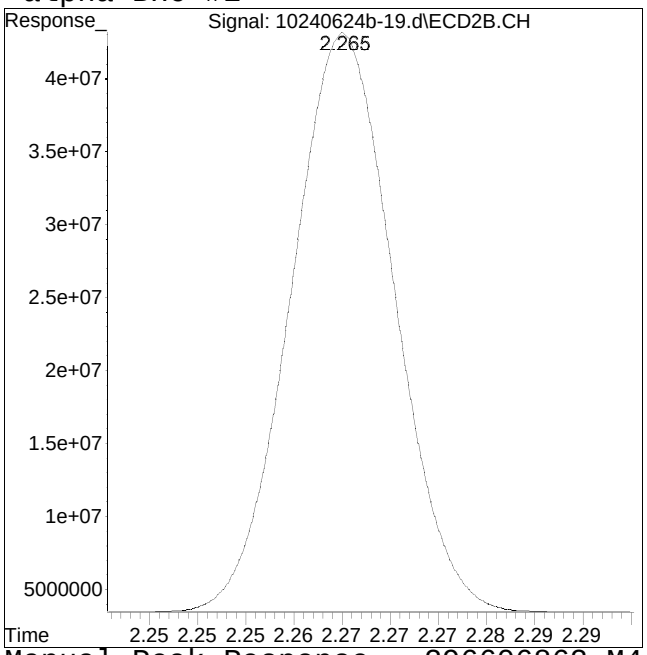
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240624QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240624b-19.d Operator : PEST10:emr
Date Inj'd : 6/24/2024 19:14 Instrument : Pest 10
Sample : WG1938134-4,42,, ms Quant Date : 6/25/2024 8:58 am

Compound #42: alpha-BHC #2



Original Peak Response = 297437038



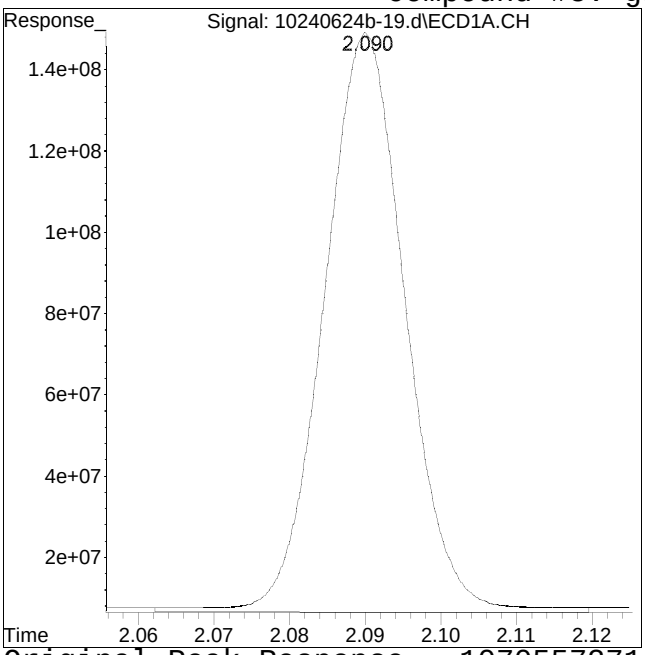
Manual Peak Response = 296606862 M4

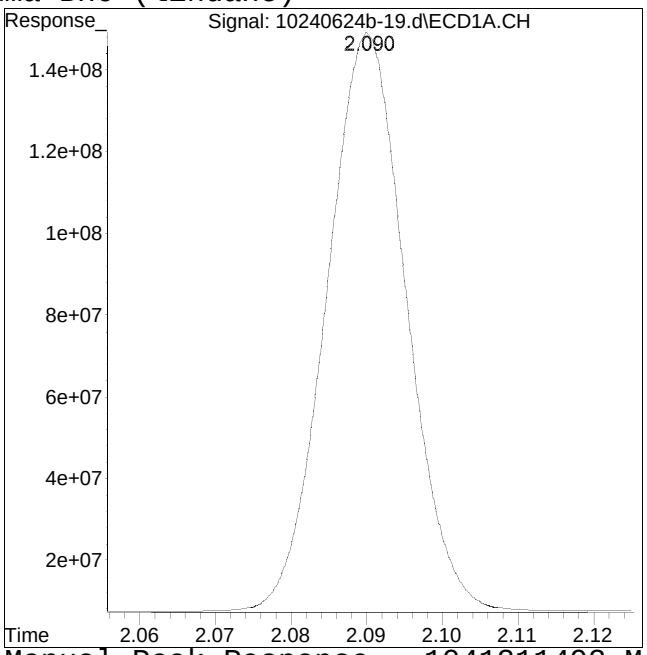
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240624QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240624b-19.d Operator : PEST10:emr
Date Inj'd : 6/24/2024 19:14 Instrument : Pest 10
Sample : WG1938134-4,42,, ms Quant Date : 6/25/2024 8:58 am

Compound #5: gamma-BHC (lindane)



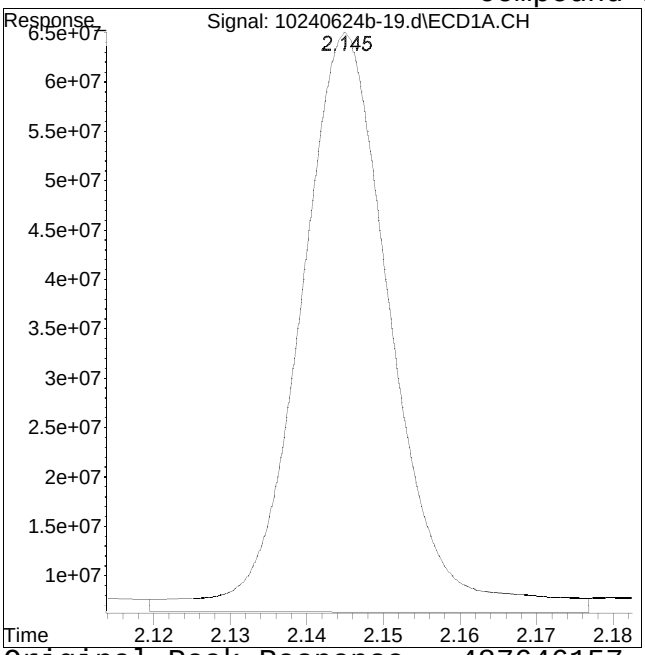


Original Peak Response = 1070557271 Manual Peak Response = 1041211492 M4
M4 = Poor automated baseline construction.

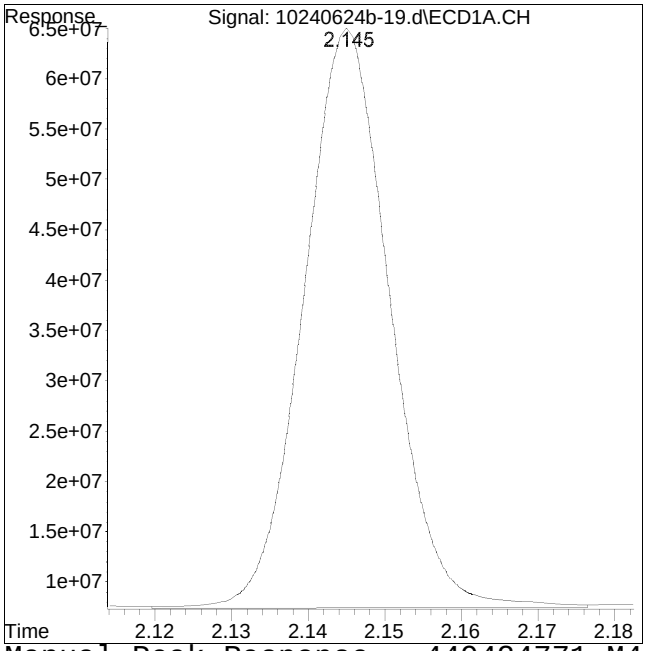
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240624QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240624b-19.d Operator : PEST10:emr
Date Inj'd : 6/24/2024 19:14 Instrument : Pest 10
Sample : WG1938134-4,42,, ms Quant Date : 6/25/2024 8:58 am

Compound #6: beta-BHC



Original Peak Response = 487646157

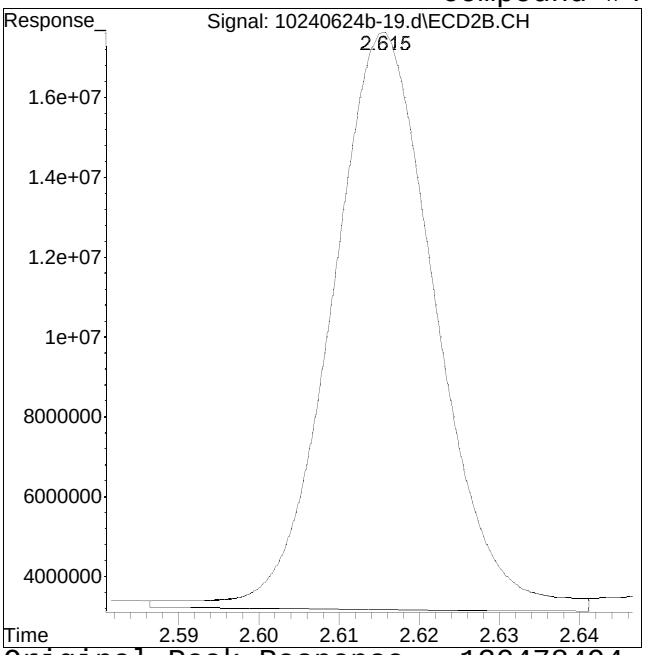


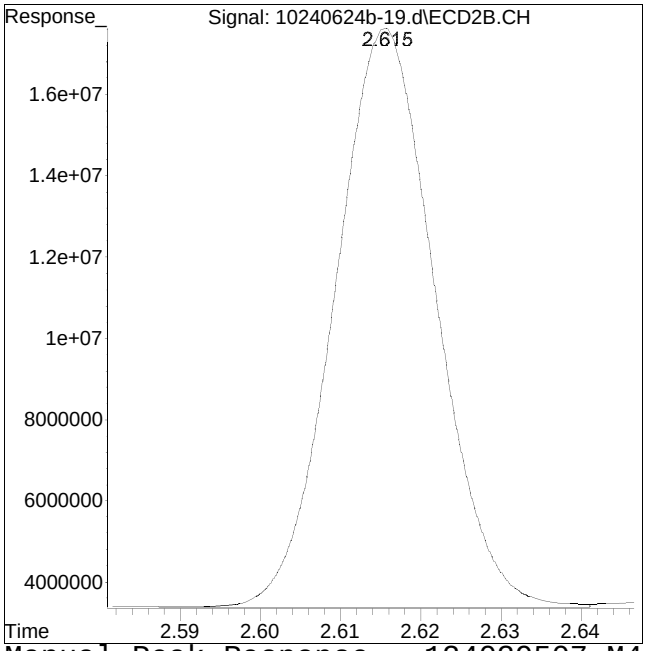
Manual Peak Response = 449424771 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240624QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240624b-19.d Operator : PEST10:emr
Date Inj'd : 6/24/2024 19:14 Instrument : Pest 10
Sample : WG1938134-4,42,, ms Quant Date : 6/25/2024 8:58 am

Compound #44: beta-BHC #2



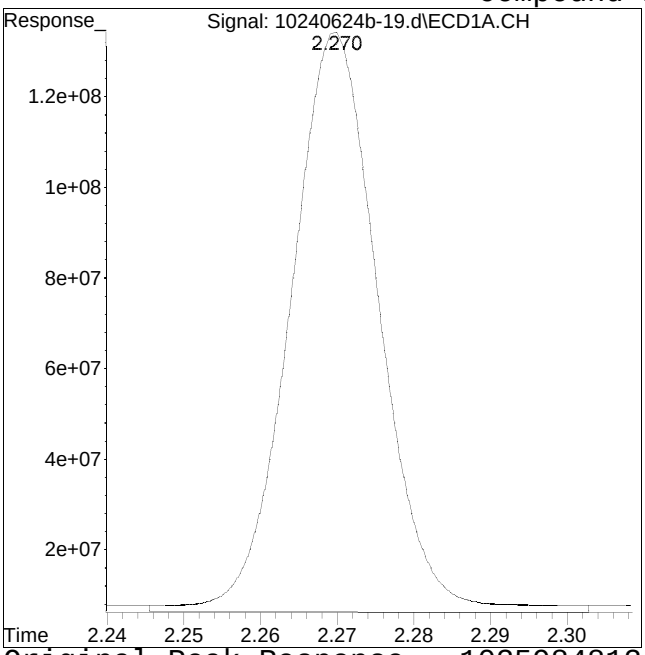


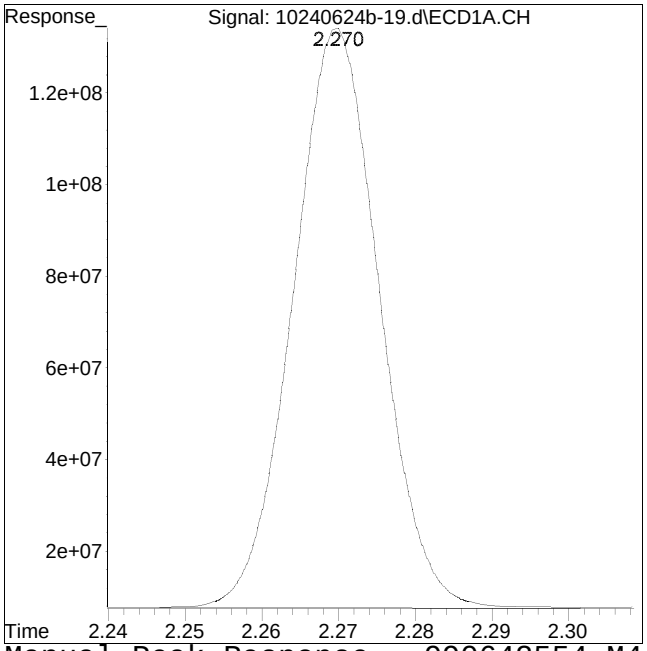
Original Peak Response = 130478494 Manual Peak Response = 124039507 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240624QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240624b-19.d Operator : PEST10:emr
Date Inj'd : 6/24/2024 19:14 Instrument : Pest 10
Sample : WG1938134-4,42,, ms Quant Date : 6/25/2024 8:58 am

Compound #7: delta-BHC



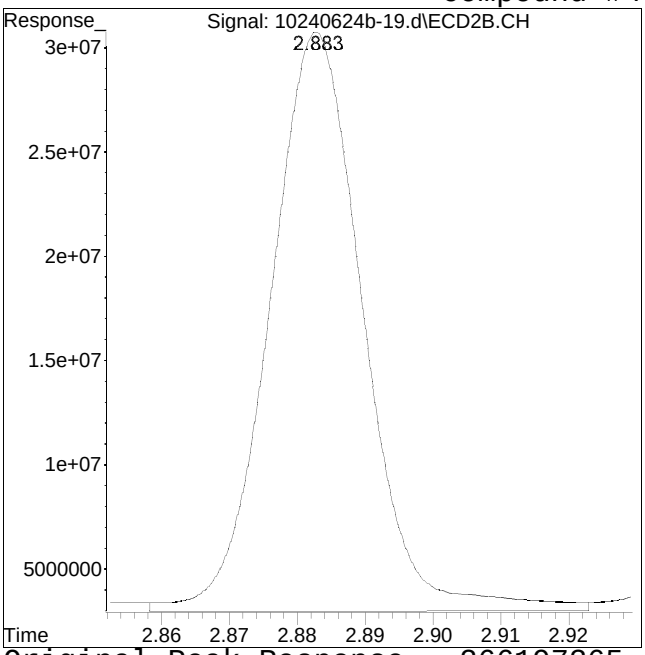


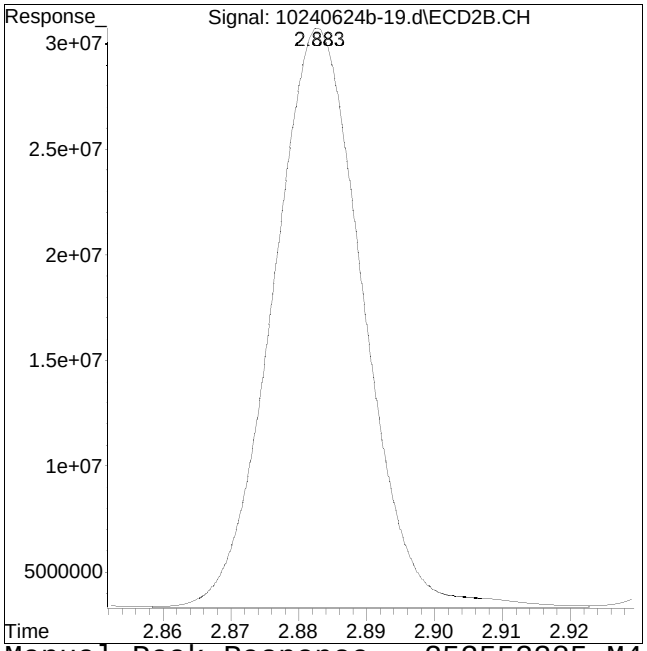
Original Peak Response = 1035984813 Manual Peak Response = 990642554 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240624QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240624b-19.d Operator : PEST10:emr
Date Inj'd : 6/24/2024 19:14 Instrument : Pest 10
Sample : WG1938134-4,42,, ms Quant Date : 6/25/2024 8:58 am

Compound #45: delta-BHC #2



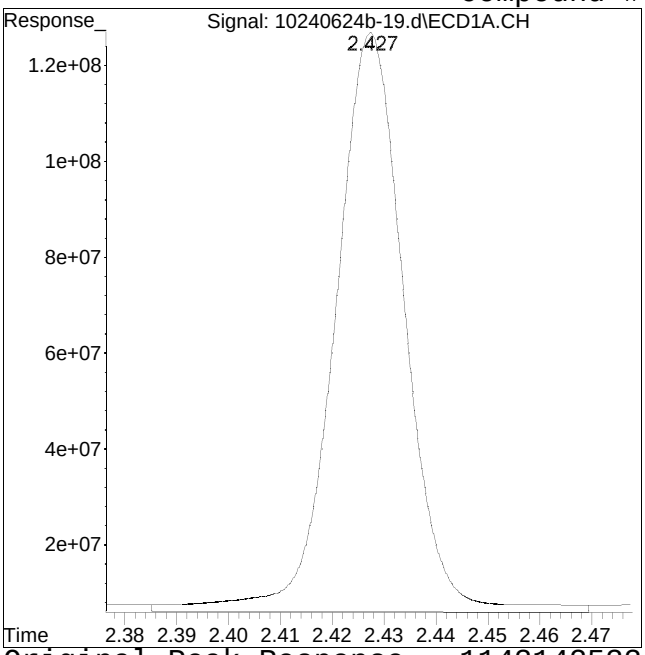


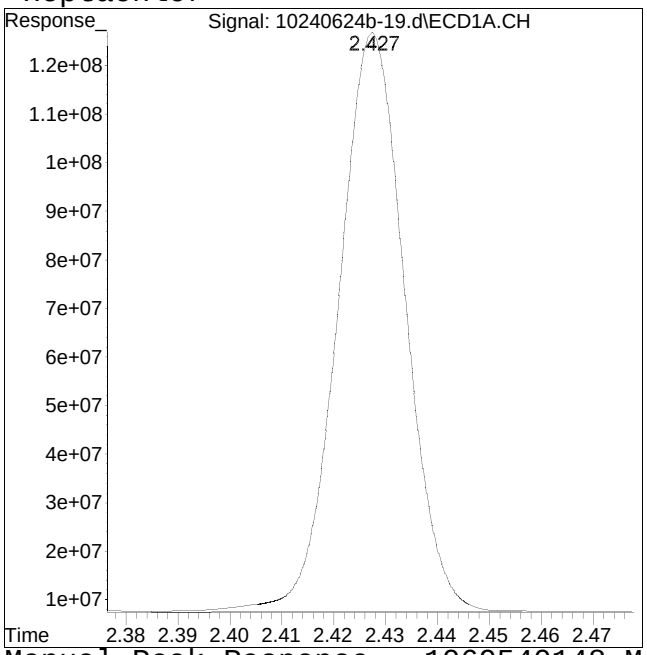
Original Peak Response = 266197365 Manual Peak Response = 253553385 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240624QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240624b-19.d Operator : PEST10:emr
Date Inj'd : 6/24/2024 19:14 Instrument : Pest 10
Sample : WG1938134-4,42,, ms Quant Date : 6/25/2024 8:58 am

Compound #8: Heptachlor



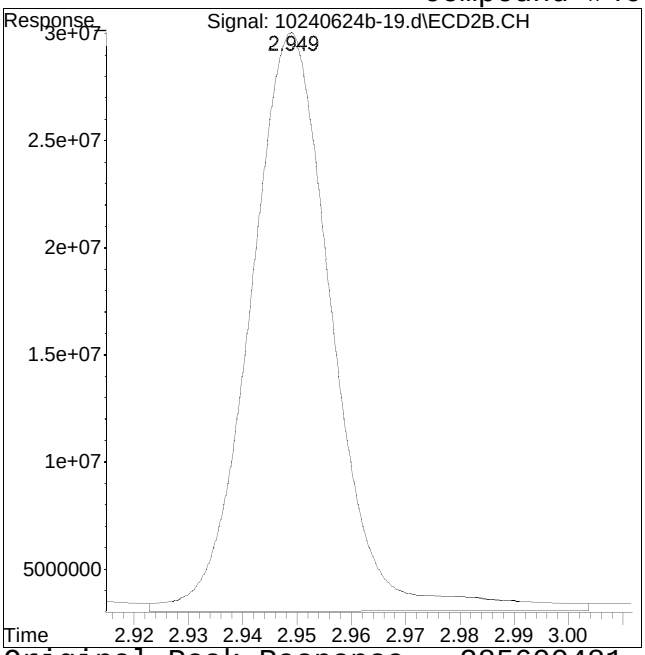


Original Peak Response = 1143142533 Manual Peak Response = 1069540148 M4
M4 = Poor automated baseline construction.

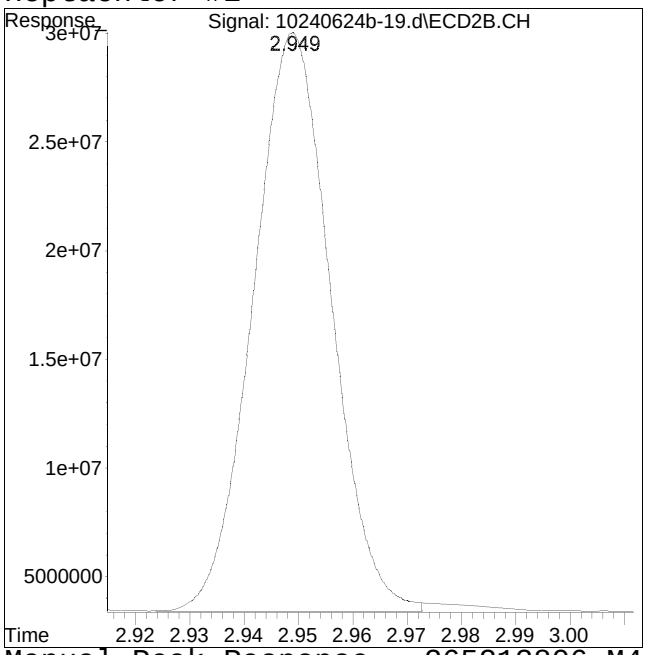
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240624QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240624b-19.d Operator : PEST10:emr
Date Inj'd : 6/24/2024 19:14 Instrument : Pest 10
Sample : WG1938134-4,42,, ms Quant Date : 6/25/2024 8:58 am

Compound #46: Heptachlor #2



Original Peak Response = 285600481



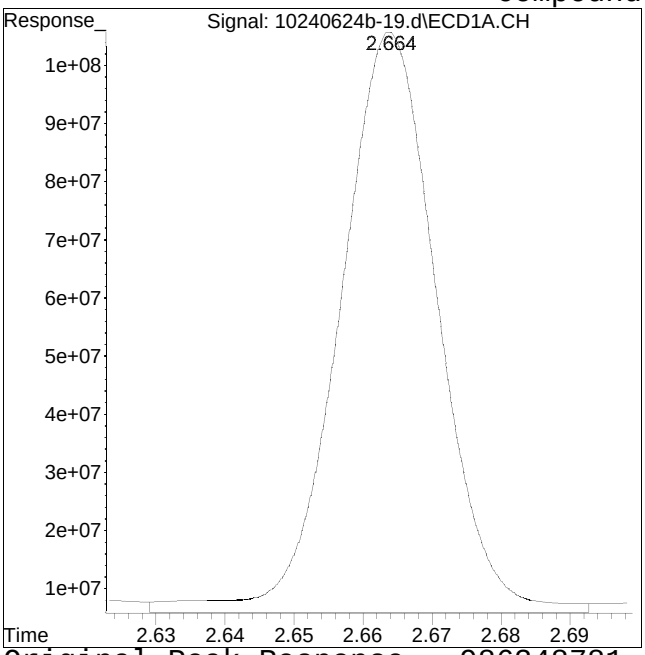
Manual Peak Response = 265213806 M4

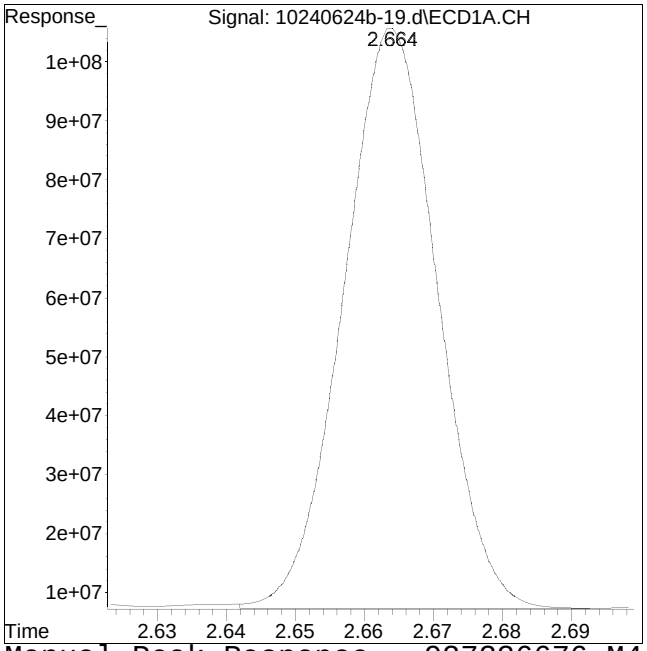
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240624QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240624b-19.d Operator : PEST10:emr
Date Inj'd : 6/24/2024 19:14 Instrument : Pest 10
Sample : WG1938134-4,42,, ms Quant Date : 6/25/2024 8:58 am

Compound #9: Aldrin



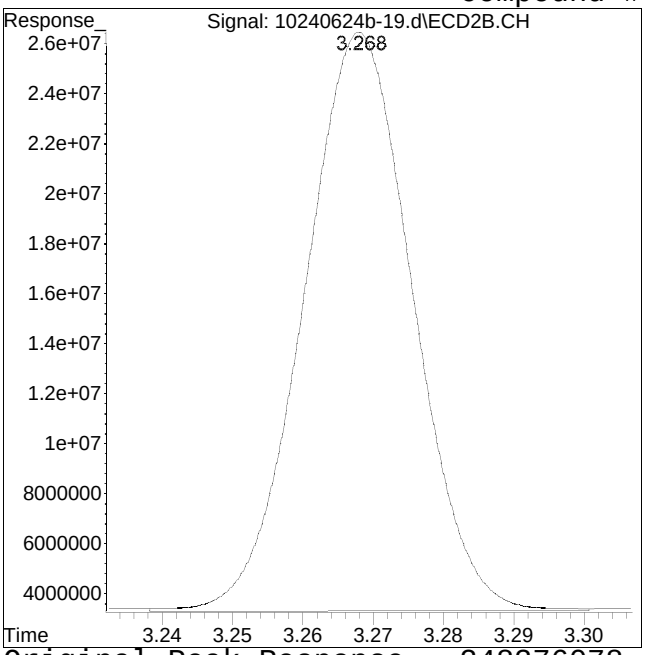


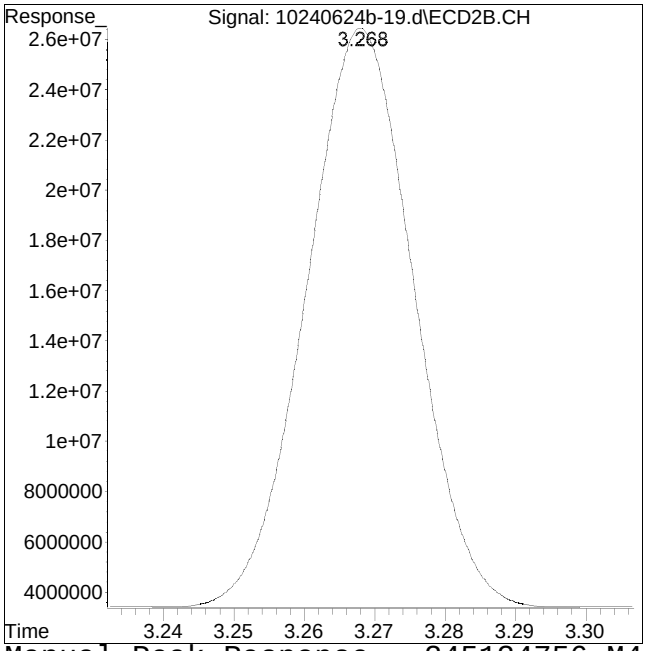
Original Peak Response = 986348781 Manual Peak Response = 927336676 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240624QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240624b-19.d Operator : PEST10:emr
Date Inj'd : 6/24/2024 19:14 Instrument : Pest 10
Sample : WG1938134-4,42,, ms Quant Date : 6/25/2024 8:58 am

Compound #47: Aldrin #2



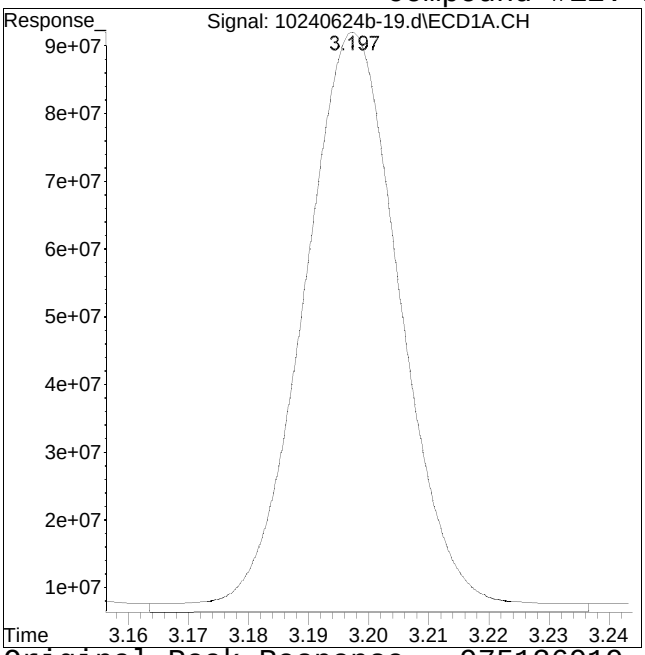


Original Peak Response = 248376078 Manual Peak Response = 245134756 M4
M4 = Poor automated baseline construction.

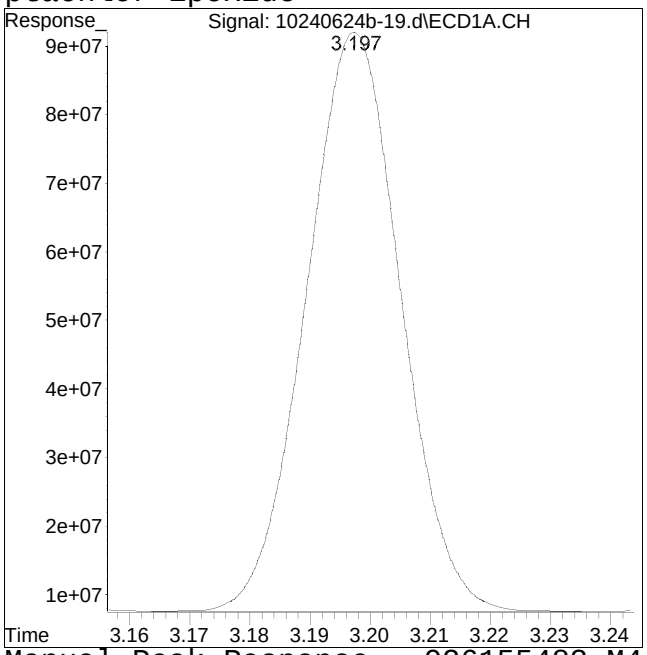
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240624QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240624b-19.d Operator : PEST10:emr
Date Inj'd : 6/24/2024 19:14 Instrument : Pest 10
Sample : WG1938134-4,42,, ms Quant Date : 6/25/2024 8:58 am

Compound #12: Heptachlor Epoxide



Original Peak Response = 975136919

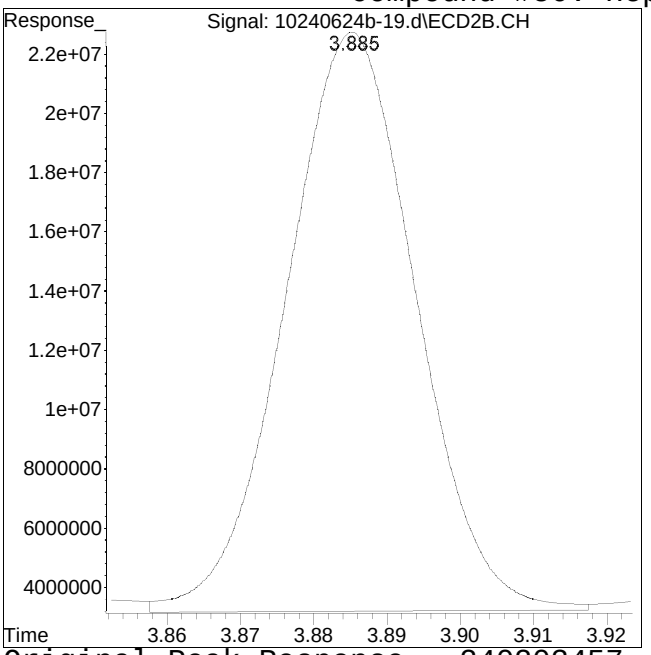


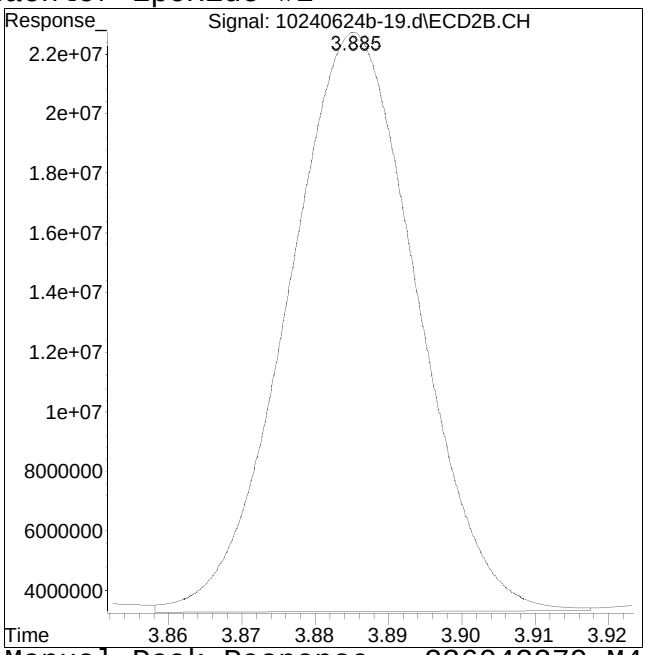
Manual Peak Response = 926155483 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240624QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240624b-19.d Operator : PEST10:emr
Date Inj'd : 6/24/2024 19:14 Instrument : Pest 10
Sample : WG1938134-4,42,, ms Quant Date : 6/25/2024 8:58 am

Compound #50: Heptachlor Epoxide #2



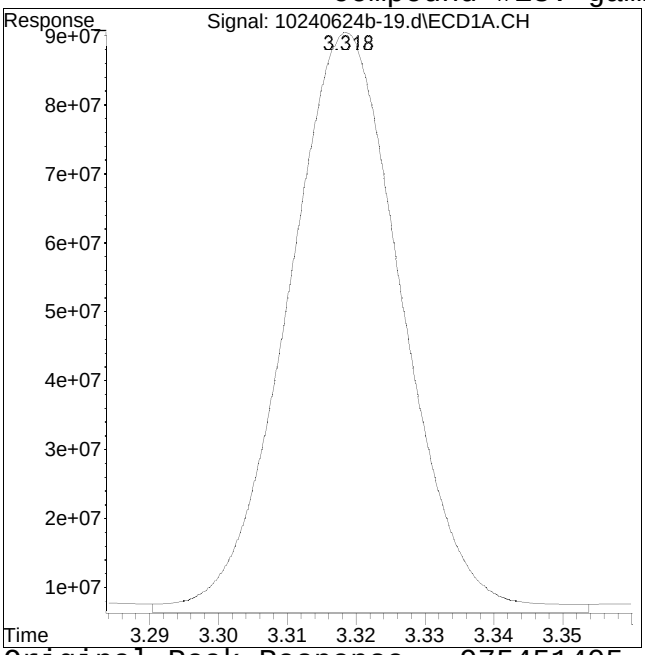


Original Peak Response = 240203457 Manual Peak Response = 236042279 M4
M4 = Poor automated baseline construction.

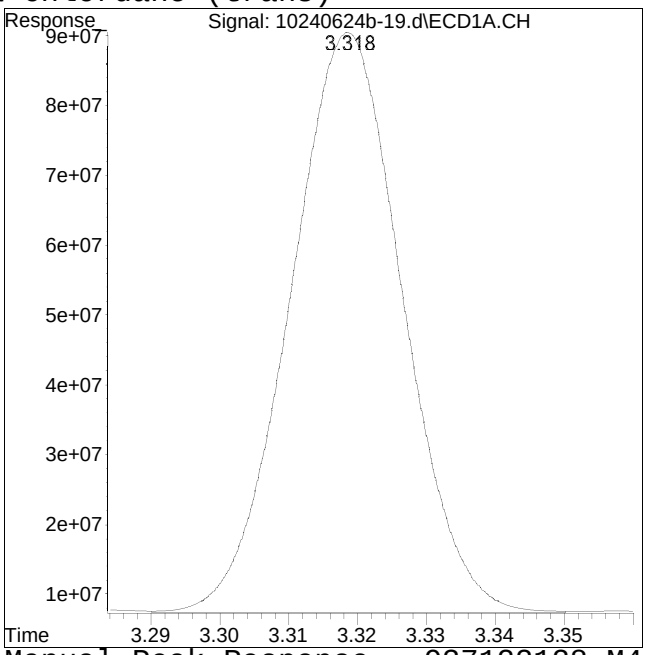
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240624QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240624b-19.d Operator : PEST10:emr
Date Inj'd : 6/24/2024 19:14 Instrument : Pest 10
Sample : WG1938134-4,42,, ms Quant Date : 6/25/2024 8:58 am

Compound #13: gamma-Chlordane (trans)



Original Peak Response = 975451405



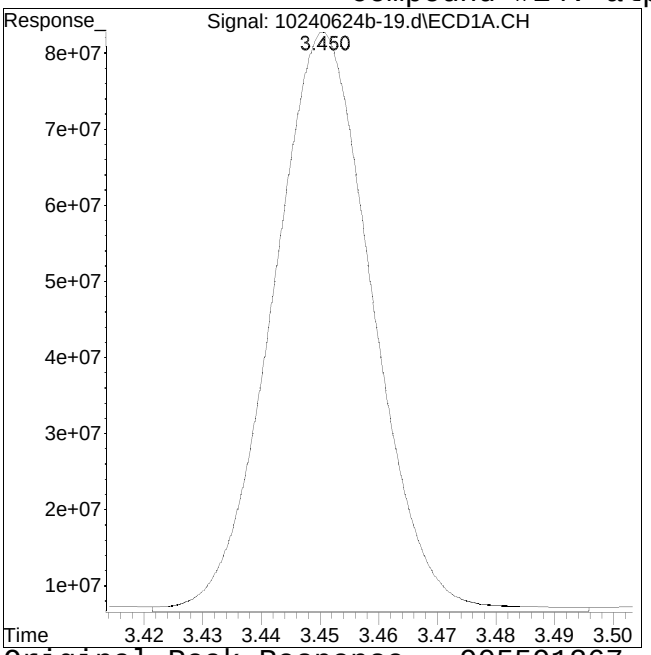
Manual Peak Response = 937122128 M4

M4 = Poor automated baseline construction.

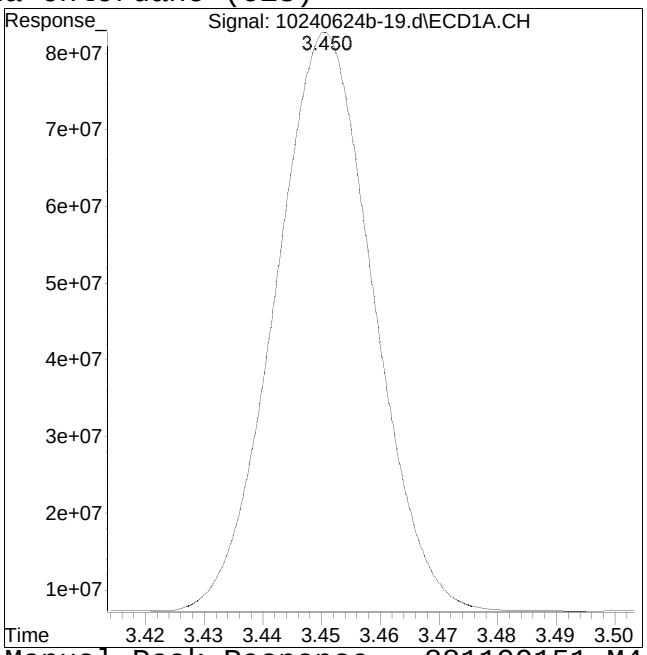
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240624QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240624b-19.d Operator : PEST10:emr
Date Inj'd : 6/24/2024 19:14 Instrument : Pest 10
Sample : WG1938134-4,42,, ms Quant Date : 6/25/2024 8:58 am

Compound #14: alpha-Chlordane (cis)



Original Peak Response = 905591267



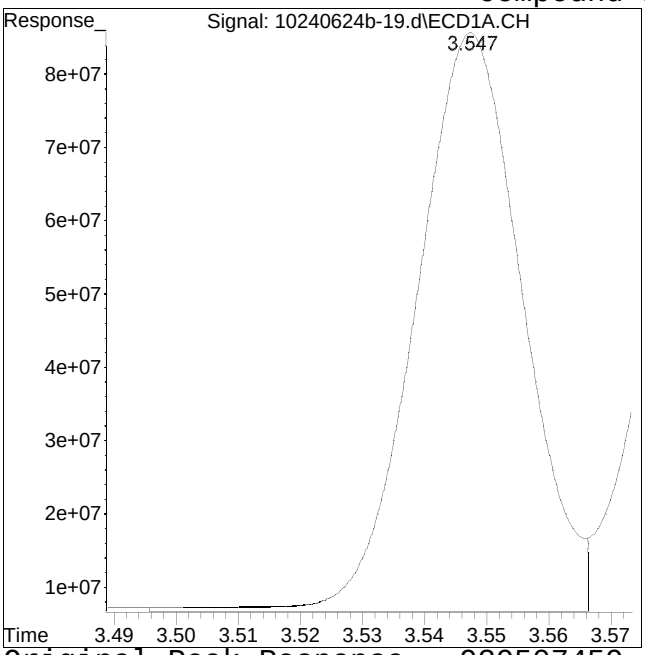
Manual Peak Response = 881199151 M4

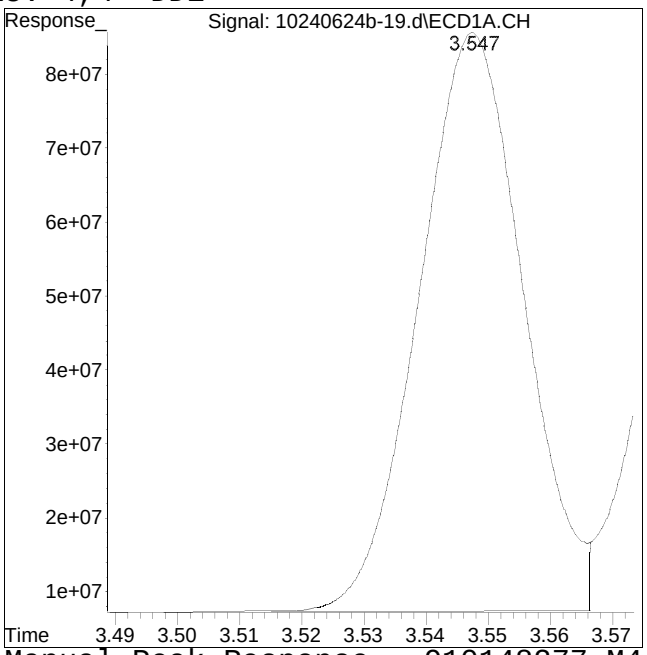
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240624QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240624b-19.d Operator : PEST10:emr
Date Inj'd : 6/24/2024 19:14 Instrument : Pest 10
Sample : WG1938134-4,42,, ms Quant Date : 6/25/2024 8:58 am

Compound #15: 4,4'-DDE



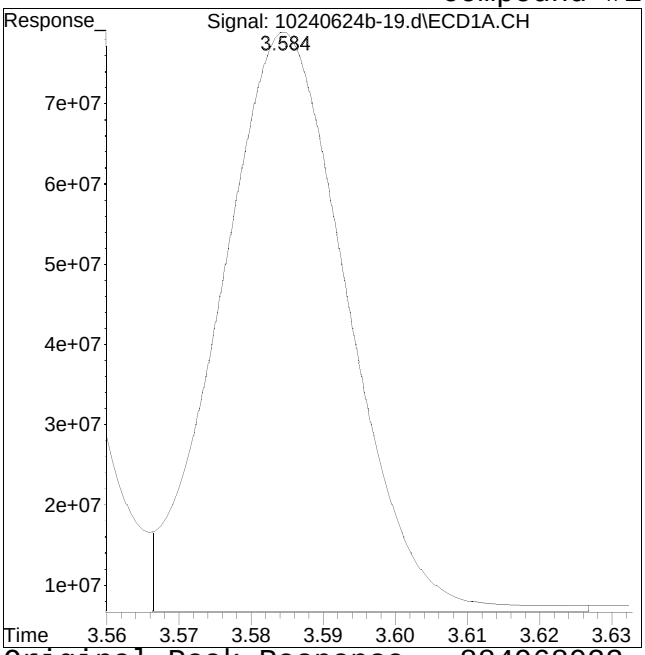


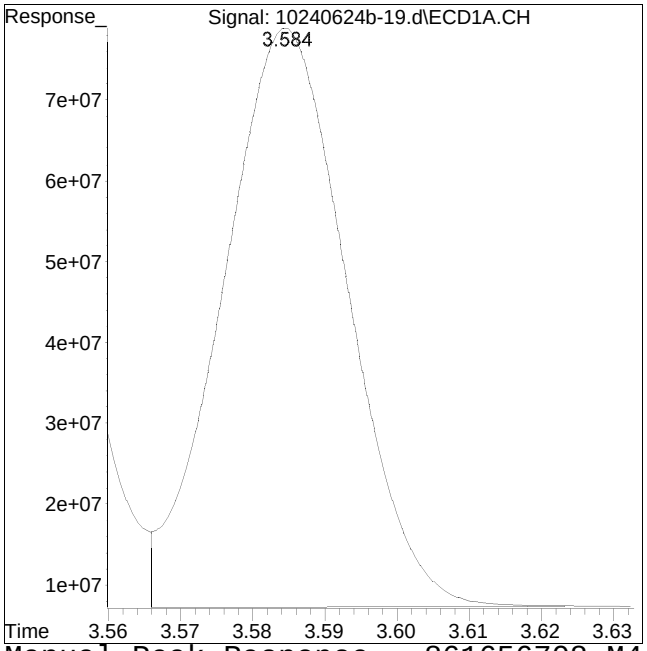
Original Peak Response = 939507459 Manual Peak Response = 910148277 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240624QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240624b-19.d Operator : PEST10:emr
Date Inj'd : 6/24/2024 19:14 Instrument : Pest 10
Sample : WG1938134-4,42,, ms Quant Date : 6/25/2024 8:58 am

Compound #16: Endosulfan I



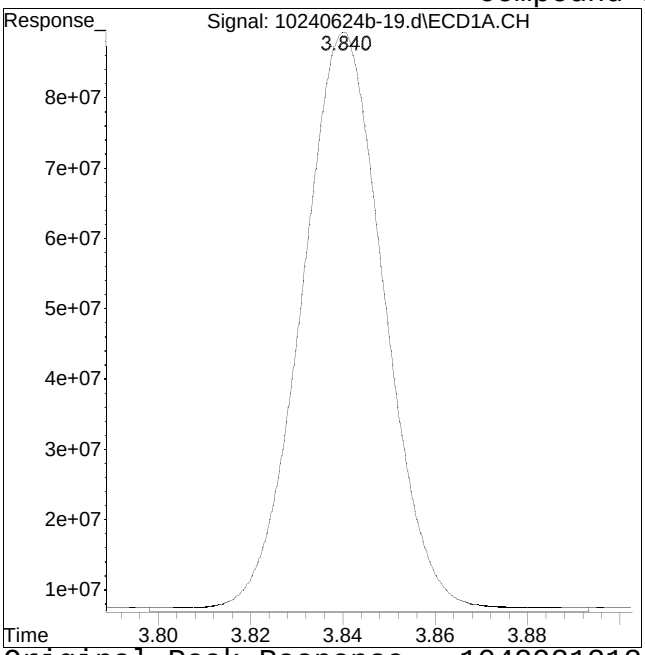


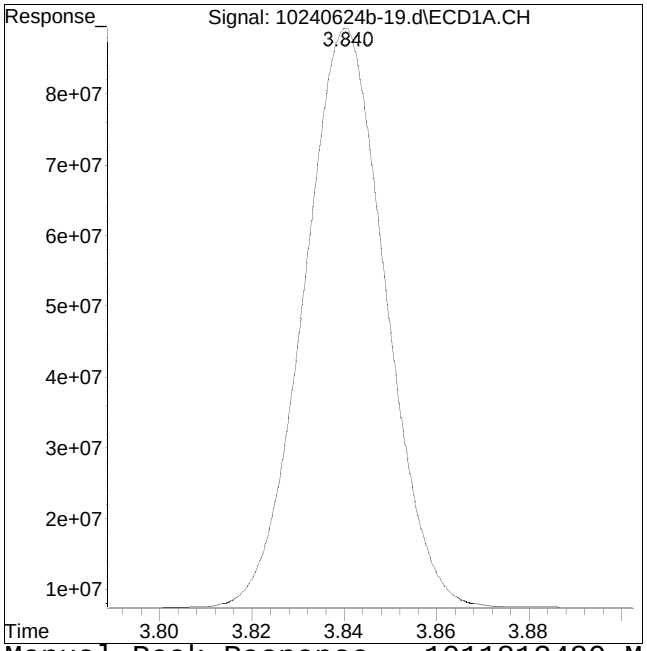
Original Peak Response = 884968923 Manual Peak Response = 861656708 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240624QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240624b-19.d Operator : PEST10:emr
Date Inj'd : 6/24/2024 19:14 Instrument : Pest 10
Sample : WG1938134-4,42,, ms Quant Date : 6/25/2024 8:58 am

Compound #17: Dieldrin



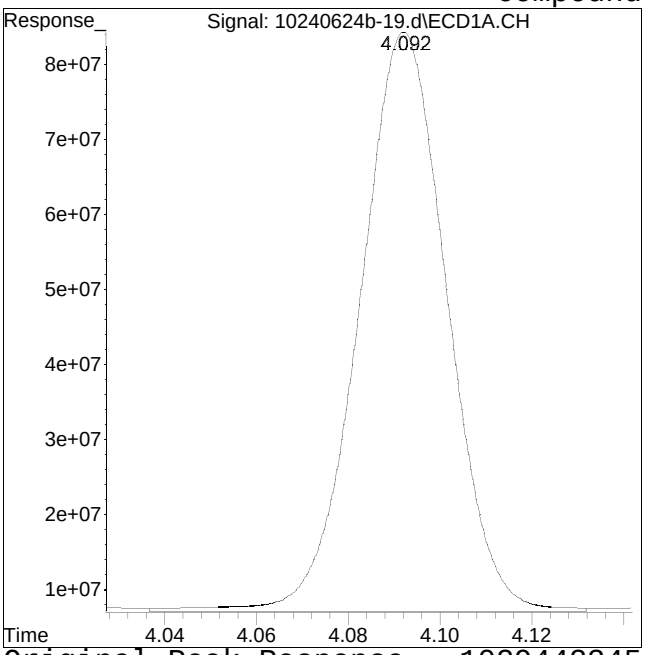


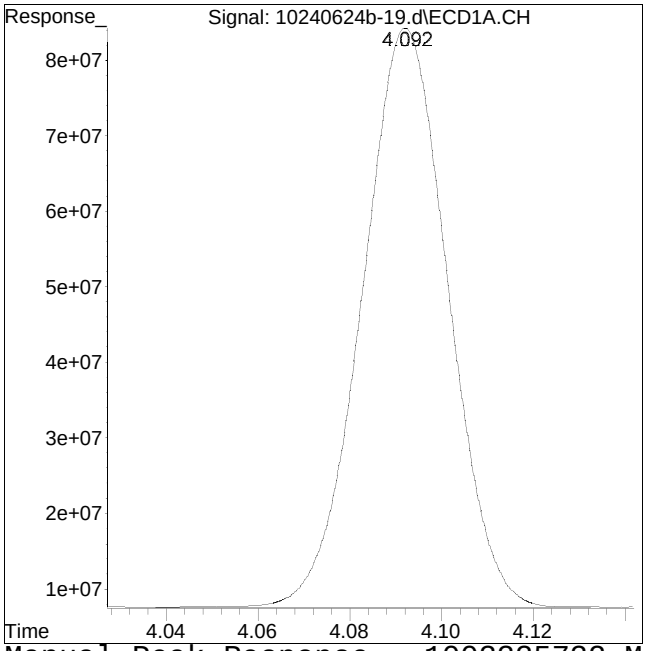
Original Peak Response = 1042921213 Manual Peak Response = 1011812480 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240624QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240624b-19.d Operator : PEST10:emr
Date Inj'd : 6/24/2024 19:14 Instrument : Pest 10
Sample : WG1938134-4,42,, ms Quant Date : 6/25/2024 8:58 am

Compound #18: Endrin



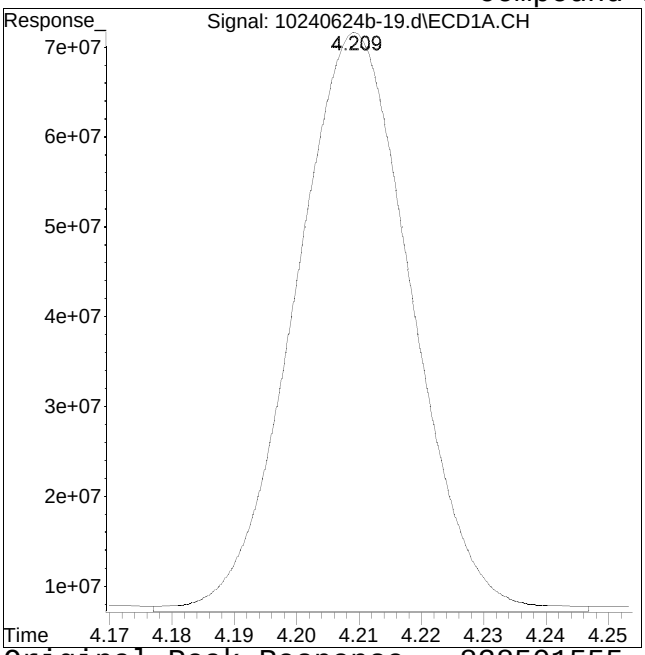


Original Peak Response = 1029442345 Manual Peak Response = 1003335732 M4
M4 = Poor automated baseline construction.

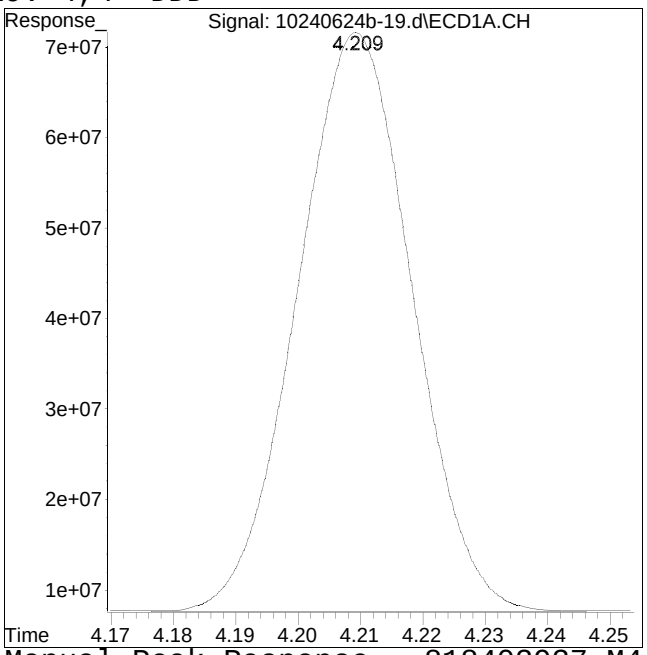
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240624QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240624b-19.d Operator : PEST10:emr
Date Inj'd : 6/24/2024 19:14 Instrument : Pest 10
Sample : WG1938134-4,42,, ms Quant Date : 6/25/2024 8:58 am

Compound #19: 4,4'-DDD



Original Peak Response = 838501555



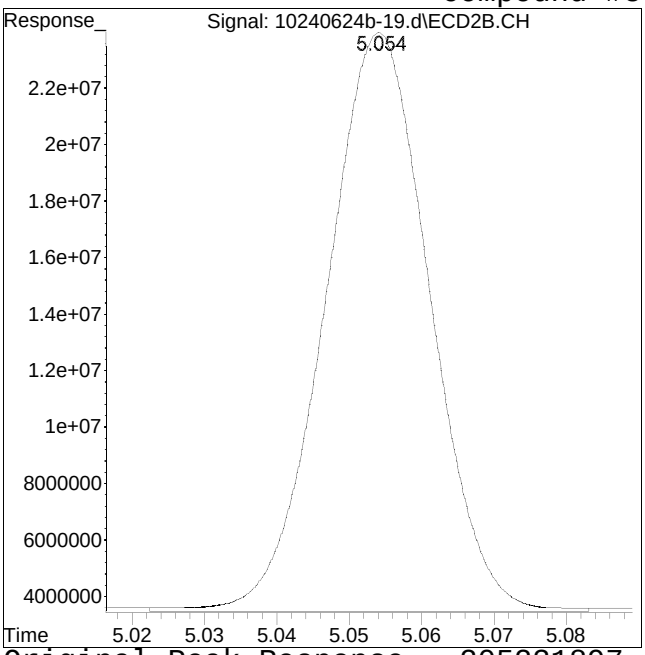
Manual Peak Response = 818403937 M4

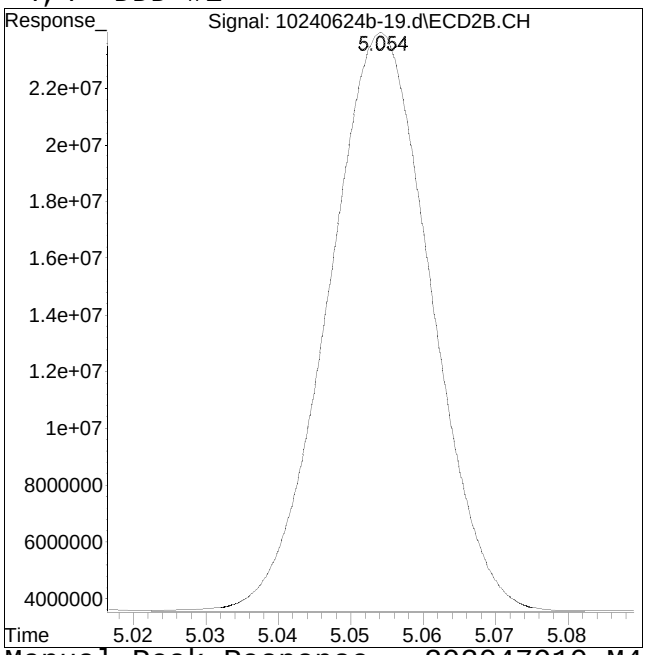
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240624QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240624b-19.d Operator : PEST10:emr
Date Inj'd : 6/24/2024 19:14 Instrument : Pest 10
Sample : WG1938134-4,42,, ms Quant Date : 6/25/2024 8:58 am

Compound #57: 4,4'-DDD #2



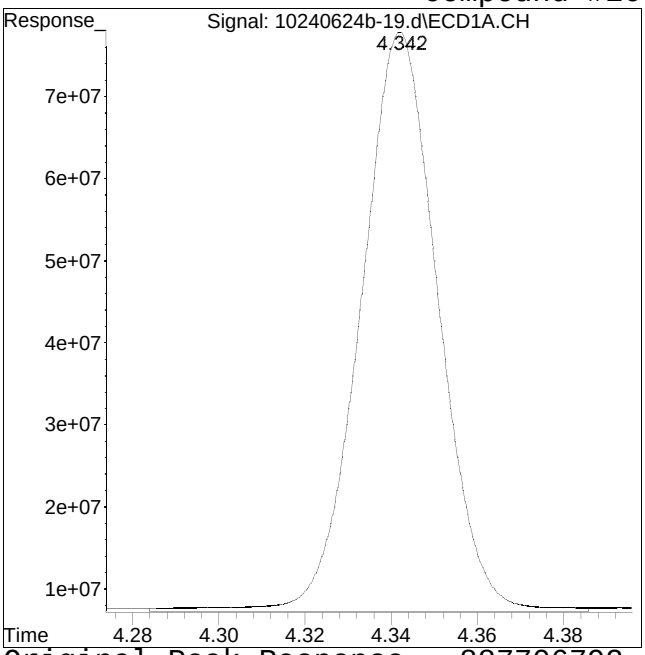


Original Peak Response = 205231897 Manual Peak Response = 202047910 M4
M4 = Poor automated baseline construction.

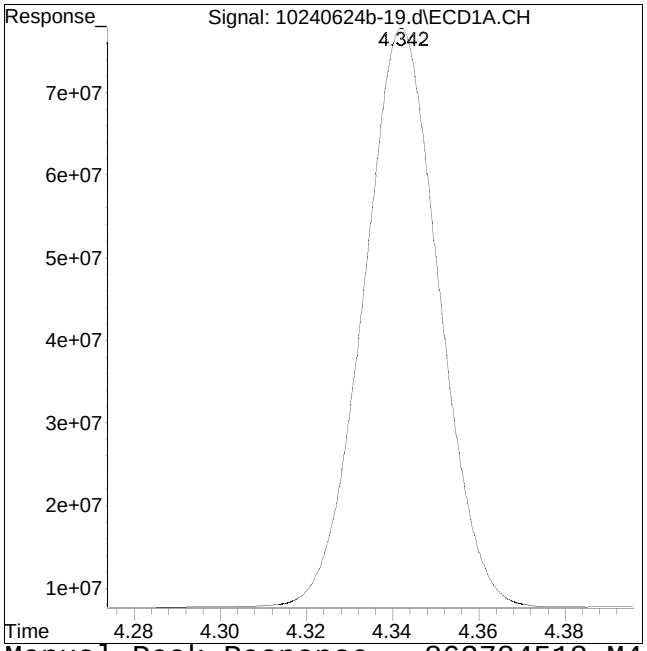
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240624QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240624b-19.d Operator : PEST10:emr
Date Inj'd : 6/24/2024 19:14 Instrument : Pest 10
Sample : WG1938134-4,42,, ms Quant Date : 6/25/2024 8:58 am

Compound #20: Endosulfan II



Original Peak Response = 887706792



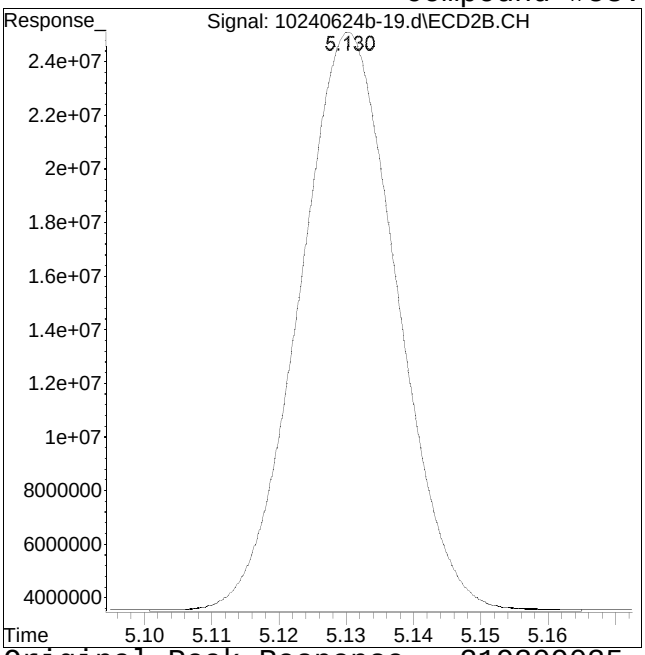
Manual Peak Response = 862784518 M4

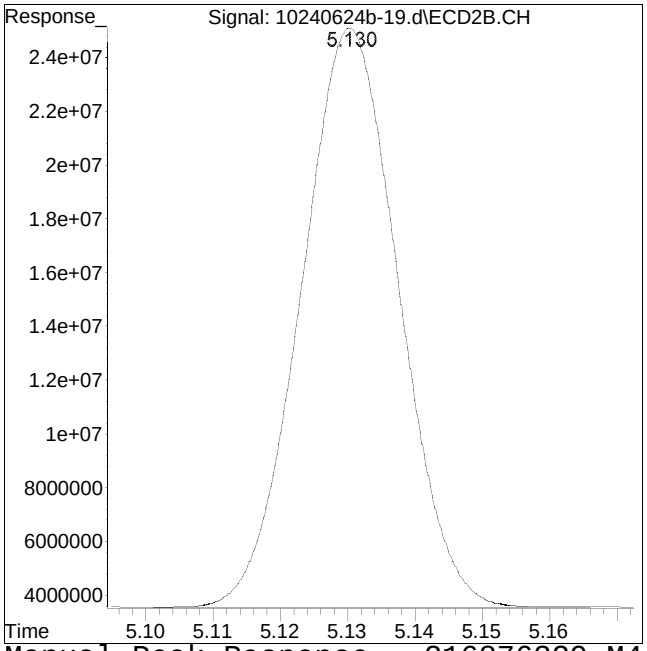
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240624QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240624b-19.d Operator : PEST10:emr
Date Inj'd : 6/24/2024 19:14 Instrument : Pest 10
Sample : WG1938134-4,42,, ms Quant Date : 6/25/2024 8:58 am

Compound #58: Endosulfan II #2



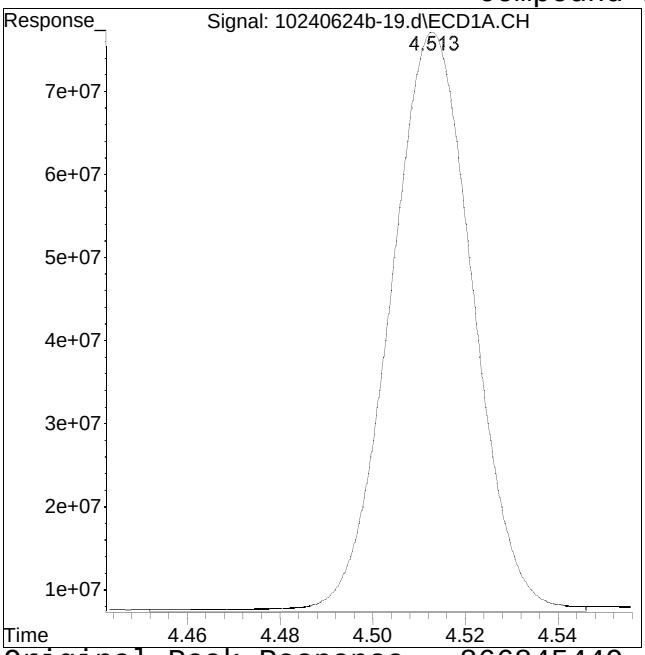


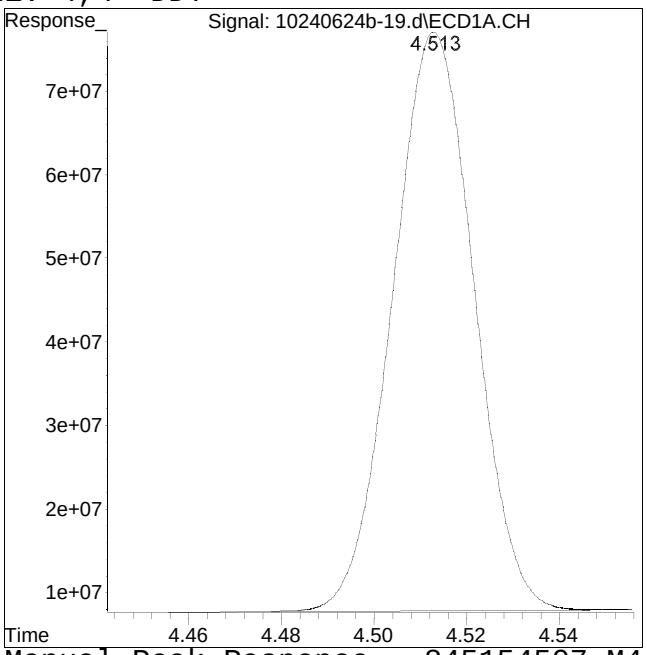
Original Peak Response = 219309035 Manual Peak Response = 216876329 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240624QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240624b-19.d Operator : PEST10:emr
Date Inj'd : 6/24/2024 19:14 Instrument : Pest 10
Sample : WG1938134-4,42,, ms Quant Date : 6/25/2024 8:58 am

Compound #21: 4,4'-DDT



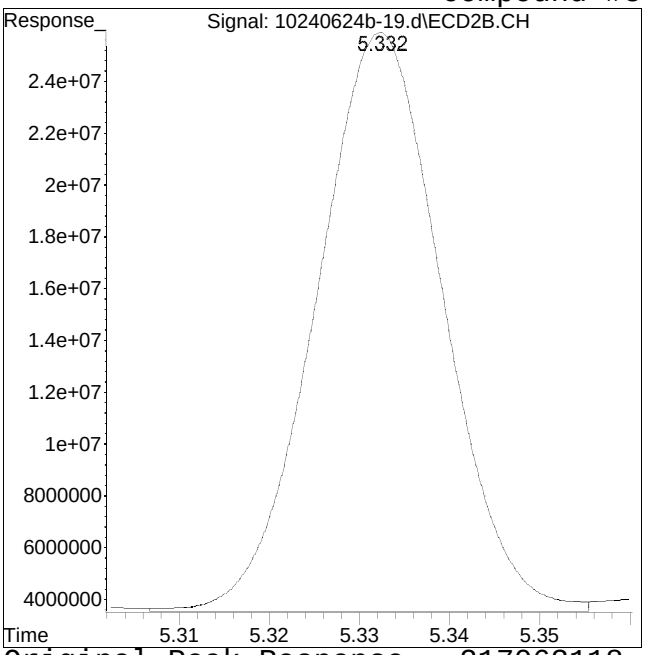


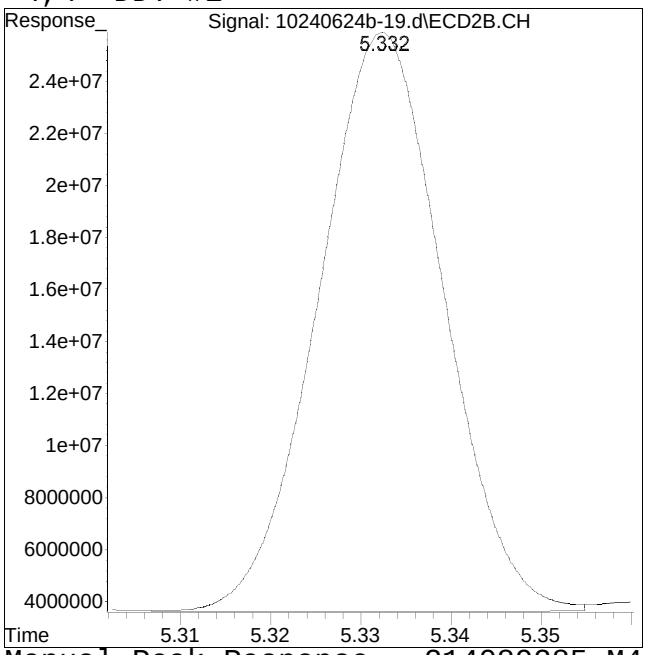
Original Peak Response = 866845449 Manual Peak Response = 845154507 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240624QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240624b-19.d Operator : PEST10:emr
Date Inj'd : 6/24/2024 19:14 Instrument : Pest 10
Sample : WG1938134-4,42,, ms Quant Date : 6/25/2024 8:58 am

Compound #59: 4,4'-DDT #2



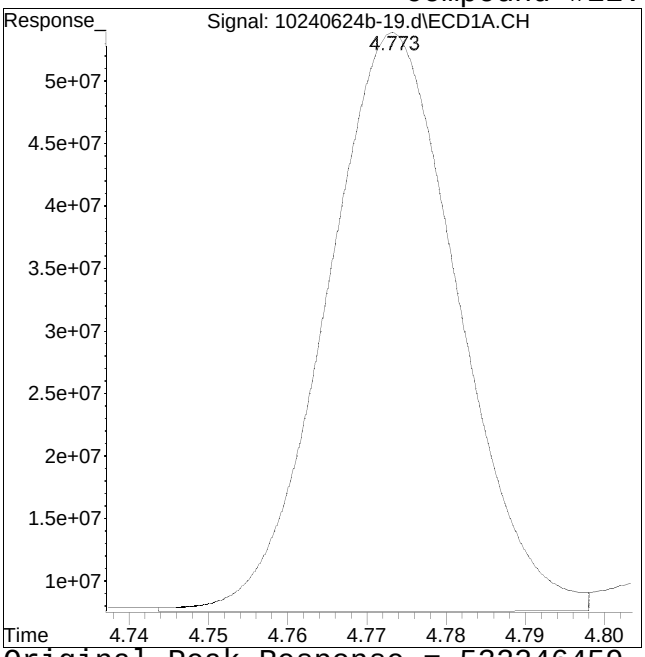


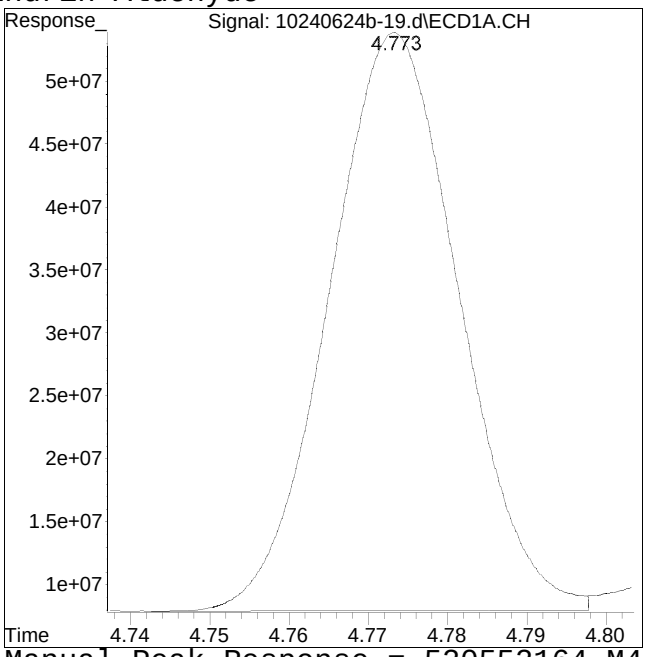
Original Peak Response = 217063118 Manual Peak Response = 214089285 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240624QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240624b-19.d Operator : PEST10:emr
Date Inj'd : 6/24/2024 19:14 Instrument : Pest 10
Sample : WG1938134-4,42,, ms Quant Date : 6/25/2024 8:58 am

Compound #22: Endrin Aldehyde



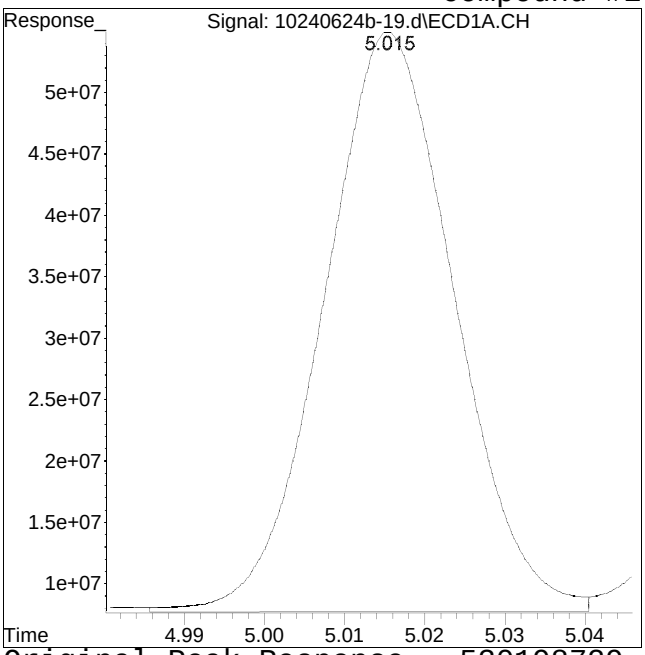


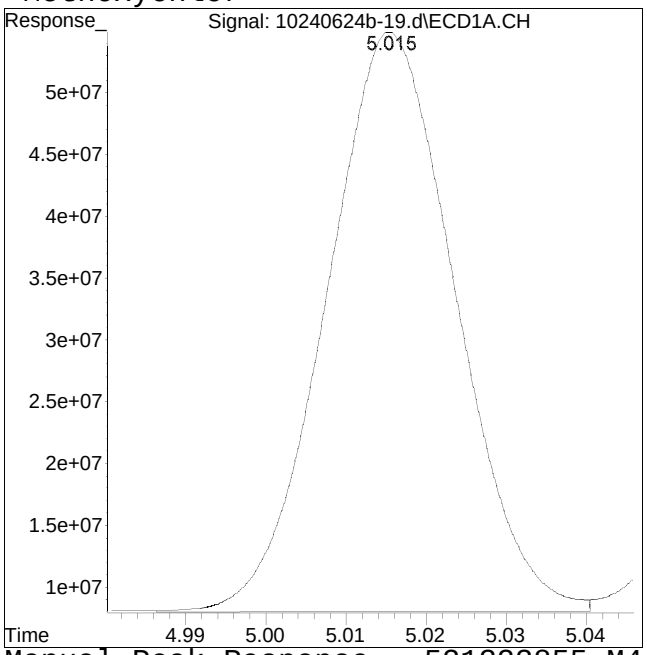
Original Peak Response = 532246459 Manual Peak Response = 520552164 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240624QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240624b-19.d Operator : PEST10:emr
Date Inj'd : 6/24/2024 19:14 Instrument : Pest 10
Sample : WG1938134-4,42,, ms Quant Date : 6/25/2024 8:58 am

Compound #23: Methoxychlor



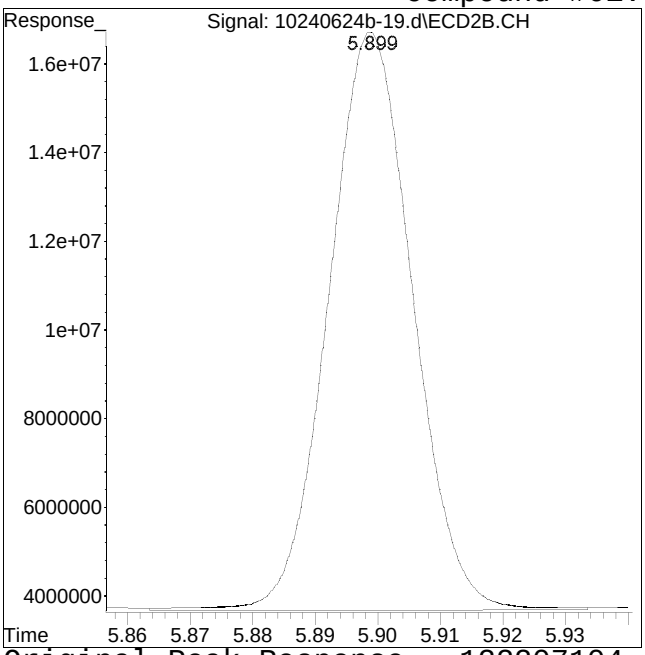


Original Peak Response = 530198729 Manual Peak Response = 521323855 M4
M4 = Poor automated baseline construction.

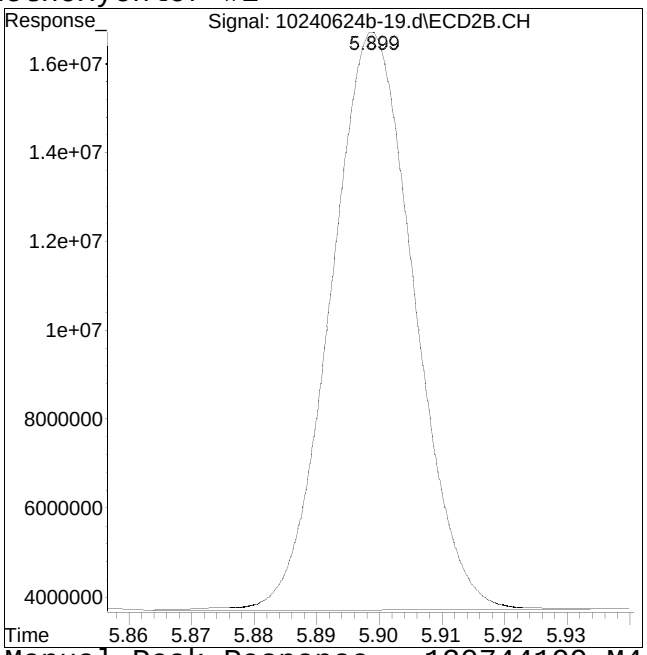
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240624QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240624b-19.d Operator : PEST10:emr
Date Inj'd : 6/24/2024 19:14 Instrument : Pest 10
Sample : WG1938134-4,42,, ms Quant Date : 6/25/2024 8:58 am

Compound #61: Methoxychlor #2



Original Peak Response = 122207104



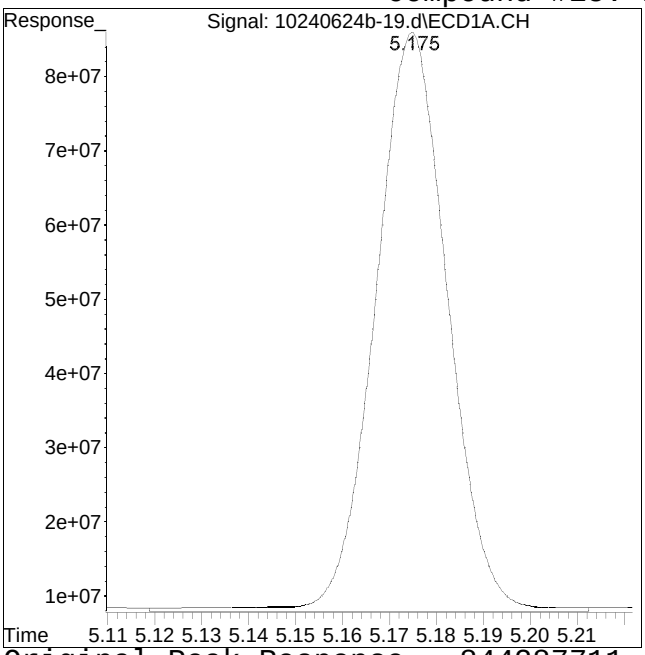
Manual Peak Response = 120744199 M4

M4 = Poor automated baseline construction.

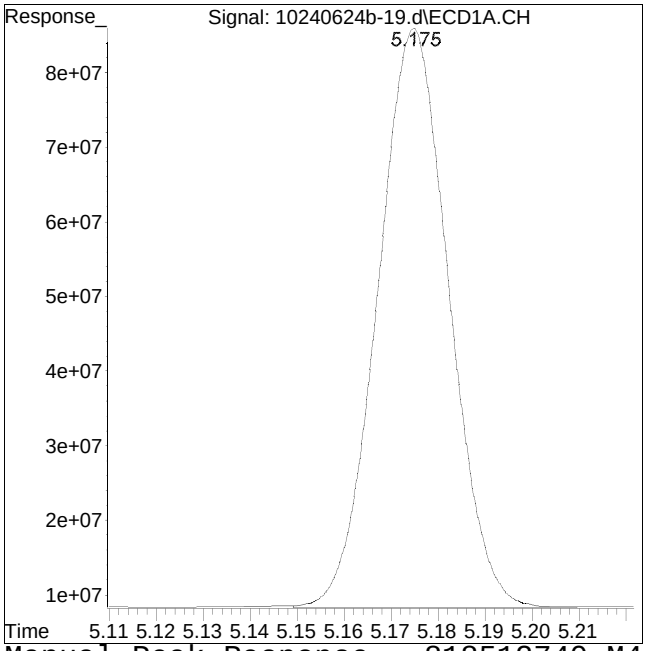
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240624QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240624b-19.d Operator : PEST10:emr
Date Inj'd : 6/24/2024 19:14 Instrument : Pest 10
Sample : WG1938134-4,42,, ms Quant Date : 6/25/2024 8:58 am

Compound #25: Endosulfan Sulfate



Original Peak Response = 844287711



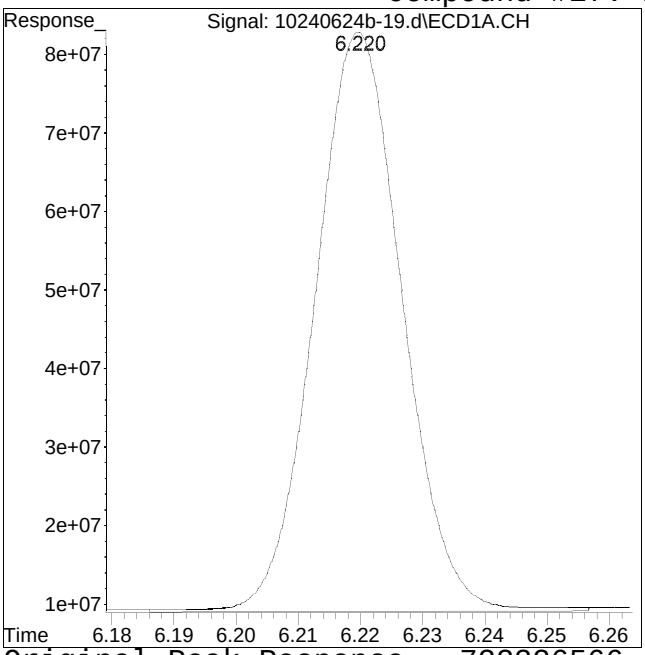
Manual Peak Response = 818512740 M4

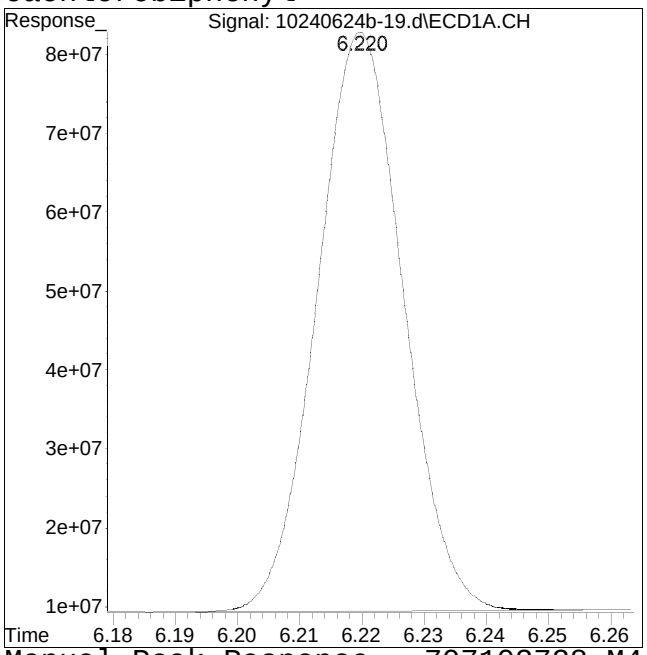
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240624QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240624b-19.d Operator : PEST10:emr
Date Inj'd : 6/24/2024 19:14 Instrument : Pest 10
Sample : WG1938134-4,42,, ms Quant Date : 6/25/2024 8:58 am

Compound #27: Decachlorobiphenyl





Original Peak Response = 722326566 Manual Peak Response = 707103728 M4
M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest10\2024\240624B\
Data File : 10240624b-20.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 24 Jun 2024 19:25
Operator : PEST10:emr
Sample : WG1938134-5,42,, msd
Misc : wg1938709,WG1938134,ical21109
ALS Vial : 20 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 25 08:58:10 2024
Quant Method : I:\PEST\Pest10\2024\240624B\pest10_2024_05_02_ugL_ical21109.m
Quant Title : pest
QLast Update : Mon Jun 24 18:30:48 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PEST\Pest10\2024\240624B\10240624b-03.d
Sub List : LCS_MS - spk only

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Internal Standards							
1) i	1-br-2-nb_Pe	1.252	1.367	512.9E6	146.8E6	25.000	25.000
	Standard Area 1 : #1 = 521435419				Recovery =	98.35%	
	Standard Area 1 : #2 = 149552544				Recovery =	98.14%	
System Monitoring Compounds							
2) s	2,4,5,6-Tetr	1.588	1.847	665.5E6	184.6E6	29.892M4	33.449
	Spiked Amount	50.000	Range 30 - 150		Recovery =	59.78%	66.90%
27) s	Decachlorobi	6.219	6.931	704.5E6	172.8E6	42.360M4	40.572M4
	Spiked Amount	50.000	Range 30 - 150		Recovery =	84.72%	81.14%
Target Compounds							
4) t	alpha-BHC	1.892	2.265	1100.6E6	289.5E6	35.523M4	36.840M4
5) t	gamma-BHC (l	2.090	2.551	1019.0E6	270.0E6	34.703M4	36.582M4
6) t	beta-BHC	2.145	2.615	441.4E6	122.1E6	37.534M4	37.658M4
7) t	delta-BHC	2.269	2.883	991.8E6	251.4E6	34.229M4	33.921M4
8) t	Heptachlor	2.427	2.949	1054.2E6	263.2E6	37.800M4	35.912M4
9) t	Aldrin	2.663	3.268	916.6E6	240.1E6	34.848M4	35.967M4
12) t	Heptachlor E	3.197	3.885	907.0E6	227.1E6	36.199M4	34.017M4
13) t	gamma-Chlord	3.318	4.105	923.3E6	242.7E6	40.283M4	40.870M4
14) t	alpha-Chlord	3.450	4.278	862.3E6	238.1E6	33.121M4	35.654M4
15) t	4,4'-DDE	3.547	4.477	899.9E6	238.3E6	36.496M4	38.605M4
16) t	Endosulfan I	3.584	4.339	865.6E6	224.3E6	36.285	36.120
17) t	Dieldrin	3.840	4.633	991.9E6	249.7E6	40.290M4	40.173
18) t	Endrin	4.092	4.932	1010.3E6	236.1E6	39.952M4	37.024
19) t	4,4'-DDD	4.209	5.054	810.1E6	198.2E6	40.419M4	39.918M4
20) t	Endosulfan I	4.342	5.130	865.9E6	219.4E6	39.673M4	39.287
21) t	4,4'-DDT	4.513	5.332	850.8E6	214.0E6	38.355M4	37.986M4
22) t	Endrin Aldeh	4.773	5.429	544.3E6	141.8E6	32.645M4	31.388
23) t	Methoxychlor	5.016	5.899	537.7E6	121.7E6	52.438M4	42.952

Data Path : I:\PEST\Pest10\2024\240624B\
Data File : 10240624b-20.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 24 Jun 2024 19:25
Operator : PEST10:emr
Sample : WG1938134-5,42,, msd
Misc : wg1938709,WG1938134,ical21109
ALS Vial : 20 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 25 08:58:10 2024
Quant Method : I:\PEST\Pest10\2024\240624B\pest10_2024_05_02_ugL_ical21109.m
Quant Title : pest
QLast Update : Mon Jun 24 18:30:48 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PEST\Pest10\2024\240624B\10240624b-03.d
Sub List : LCS_MS - spk only

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
25) t Endosulfan S	5.174	5.658	823.3E6	202.6E6	38.036M4	36.384
26) t Endrin Keton	5.405	6.070	989.0E6	244.5E6	41.660M4	40.316
Sum chlordane-1			0	0	N.D.	N.D.
Average chlordane-1					0.000	0.000
Sum toxaphene-1			0	0	N.D.	N.D.
Average toxaphene-1					0.000	0.000
SemiQuant Compounds - Not Calibrated on this Instrument						
Sum toxaphene-1			0	0	N.D.	N.D.
Average toxaphene-1					0.000	0.000

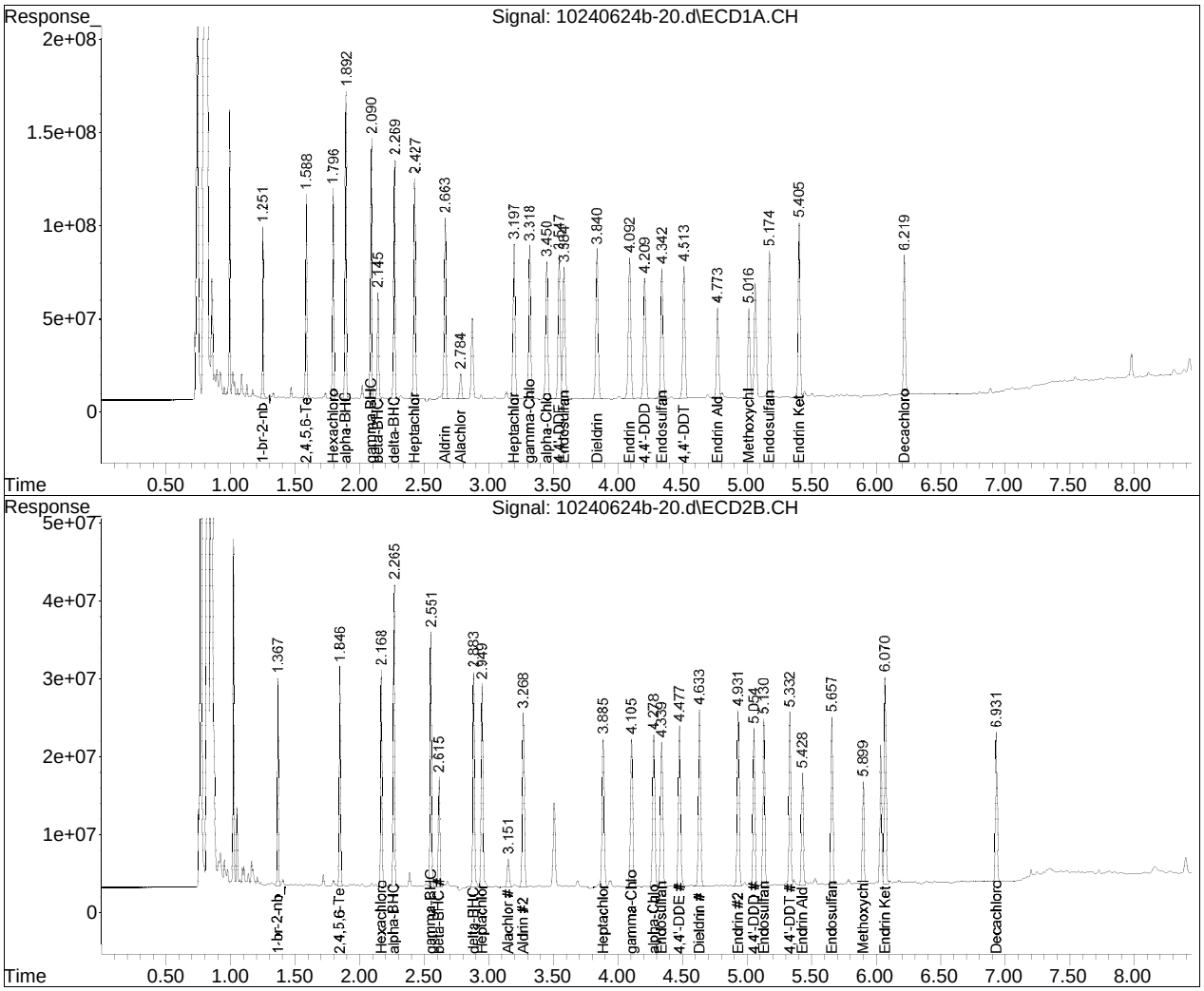
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : LCS_MS - spk only0\2024\240624B\10240624b-03.d•

Data Path : I:\PEST\Pest10\2024\240624B\
Data File : 10240624b-20.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 24 Jun 2024 19:25
Operator : PEST10:emr
Sample : WG1938134-5,42,, msd
Misc : wg1938709,WG1938134,ical21109
ALS Vial : 20 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 25 08:58:10 2024
Quant Method : I:\PEST\Pest10\2024\240624B\pest10_2024_05_02_ugL_ical21109.m
Quant Title : pest
QLast Update : Mon Jun 24 18:30:48 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

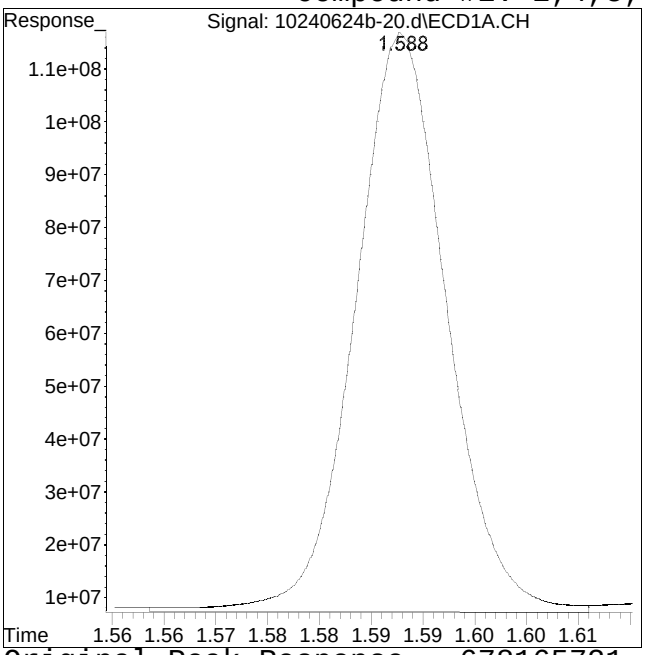
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

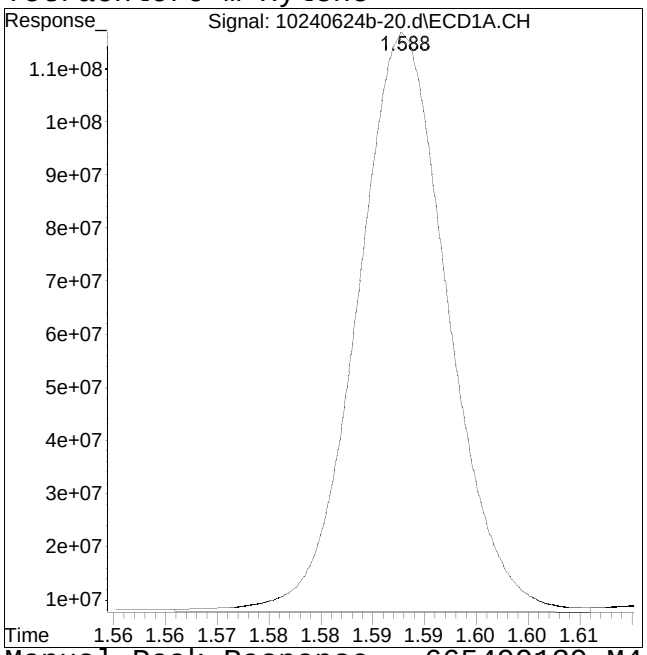


Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240624QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240624b-20.d Operator : PEST10:emr
Date Inj'd : 6/24/2024 19:25 Instrument : Pest 10
Sample : WG1938134-5,42,, msd Quant Date : 6/25/2024 8:58 am

Compound #2: 2,4,5,6-Tetrachloro-m-xylene



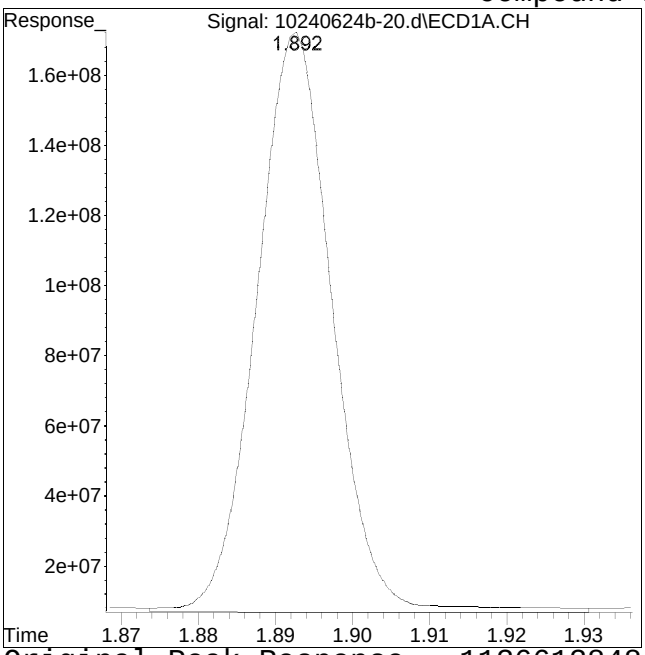


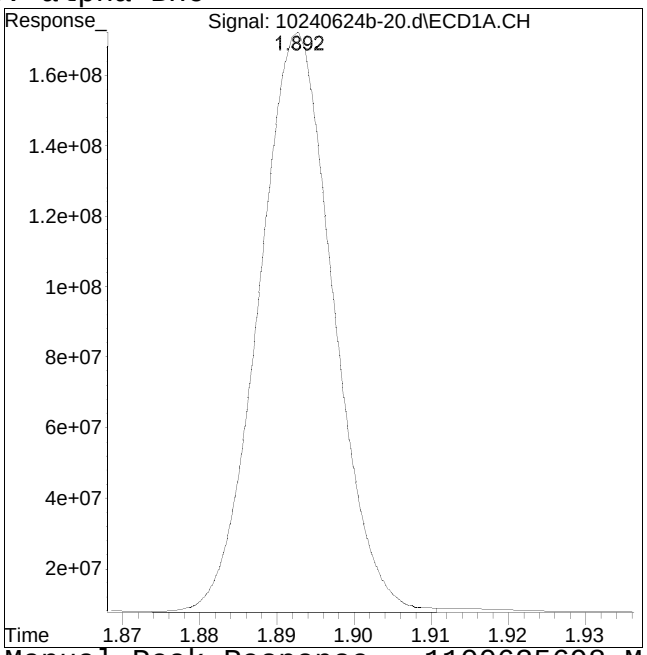
Original Peak Response = 678165721 Manual Peak Response = 665499139 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240624QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240624b-20.d Operator : PEST10:emr
Date Inj'd : 6/24/2024 19:25 Instrument : Pest 10
Sample : WG1938134-5,42,, msd Quant Date : 6/25/2024 8:58 am

Compound #4: alpha-BHC



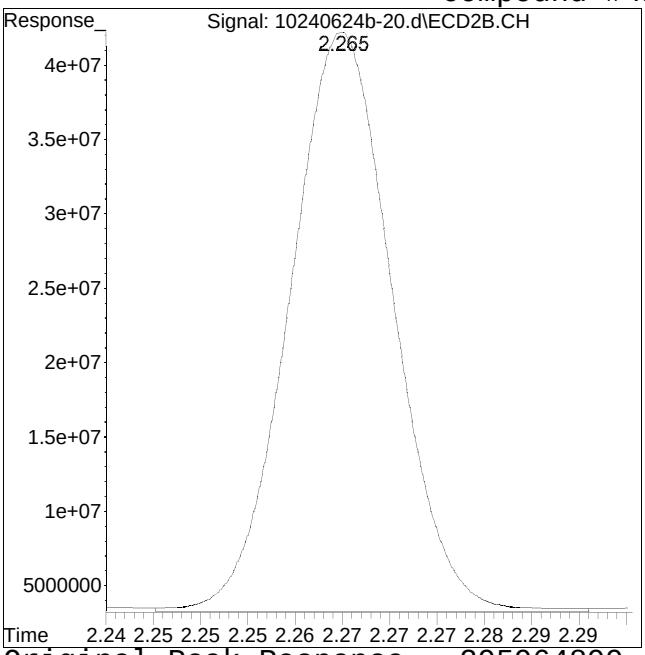


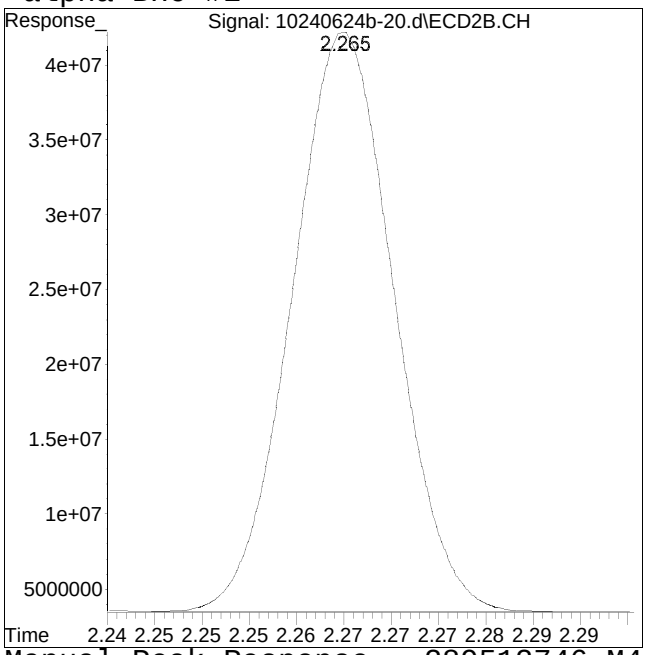
Original Peak Response = 1136613848 Manual Peak Response = 1100635698 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240624QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240624b-20.d Operator : PEST10:emr
Date Inj'd : 6/24/2024 19:25 Instrument : Pest 10
Sample : WG1938134-5,42,, msd Quant Date : 6/25/2024 8:58 am

Compound #42: alpha-BHC #2



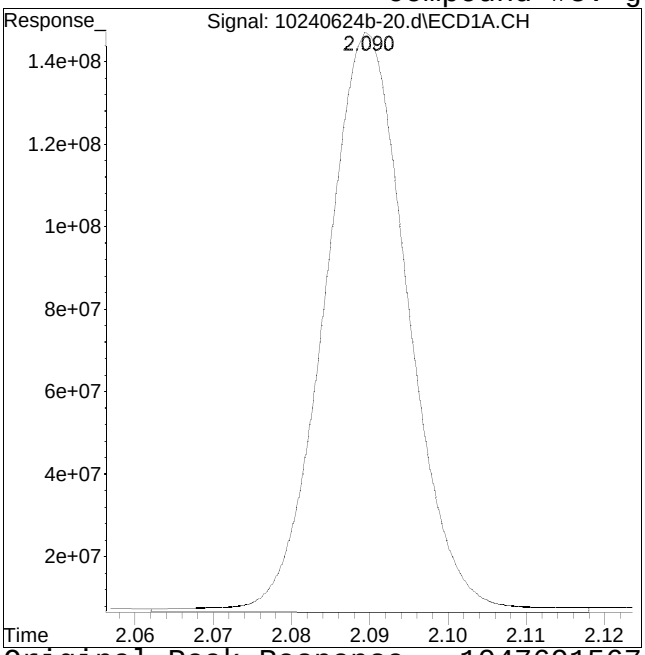


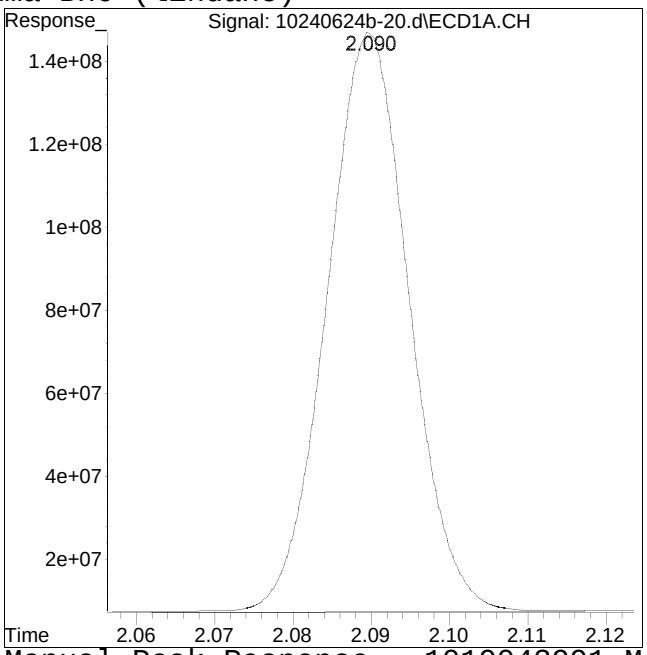
Original Peak Response = 295964899 Manual Peak Response = 289512746 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240624QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240624b-20.d Operator : PEST10:emr
Date Inj'd : 6/24/2024 19:25 Instrument : Pest 10
Sample : WG1938134-5,42,, msd Quant Date : 6/25/2024 8:58 am

Compound #5: gamma-BHC (lindane)



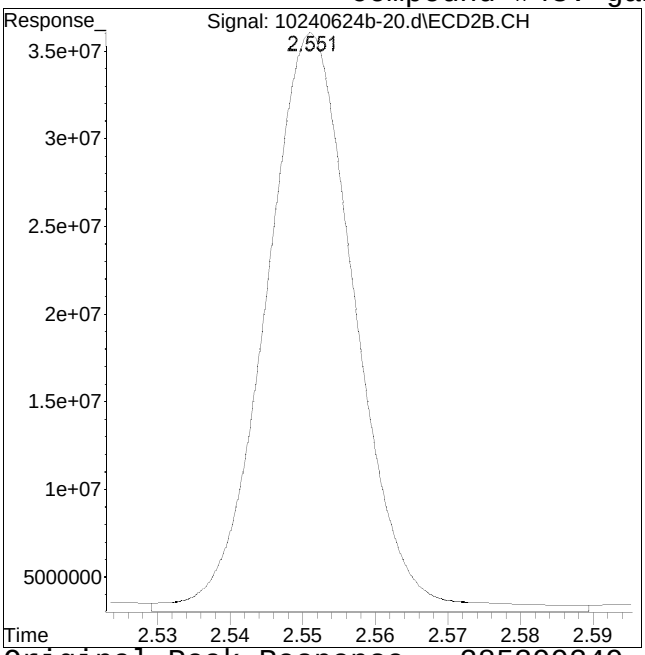


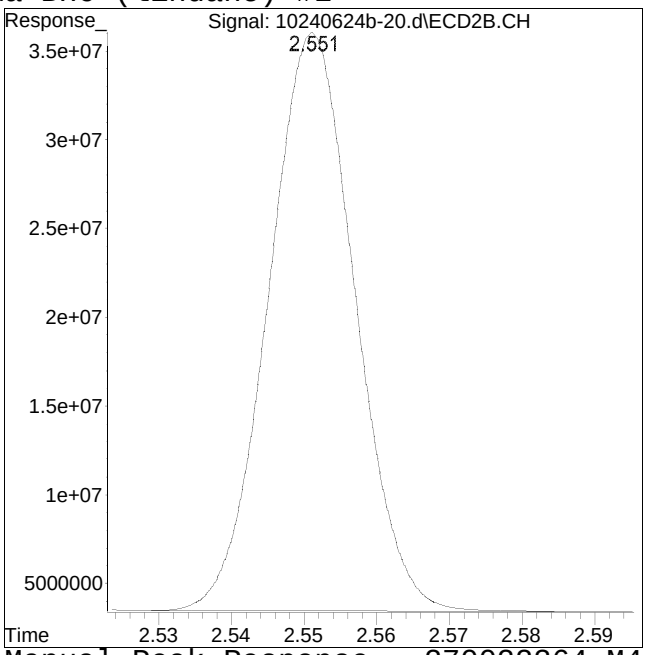
Original Peak Response = 1047691567 Manual Peak Response = 1019043991 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240624QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240624b-20.d Operator : PEST10:emr
Date Inj'd : 6/24/2024 19:25 Instrument : Pest 10
Sample : WG1938134-5,42,, msd Quant Date : 6/25/2024 8:58 am

Compound #43: gamma-BHC (lindane) #2



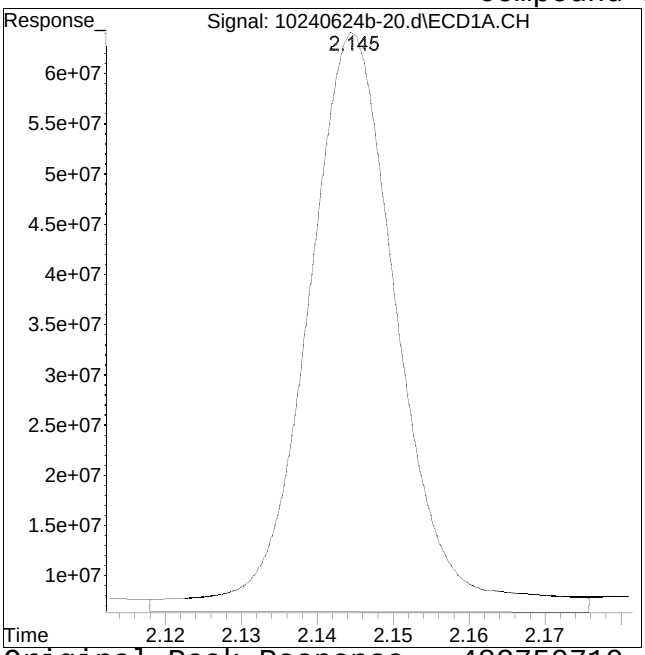


Original Peak Response = 285399349 Manual Peak Response = 270022364 M4
M4 = Poor automated baseline construction.

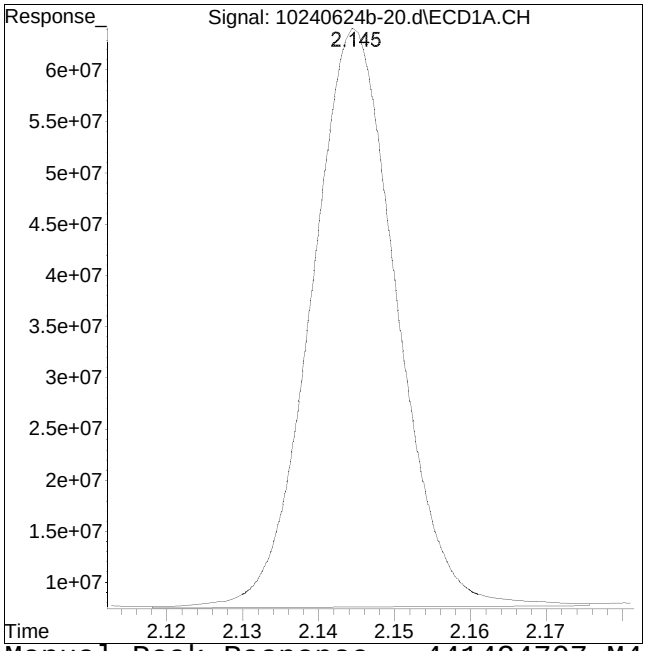
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240624QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240624b-20.d Operator : PEST10:emr
Date Inj'd : 6/24/2024 19:25 Instrument : Pest 10
Sample : WG1938134-5,42,, msd Quant Date : 6/25/2024 8:58 am

Compound #6: beta-BHC



Original Peak Response = 482750710



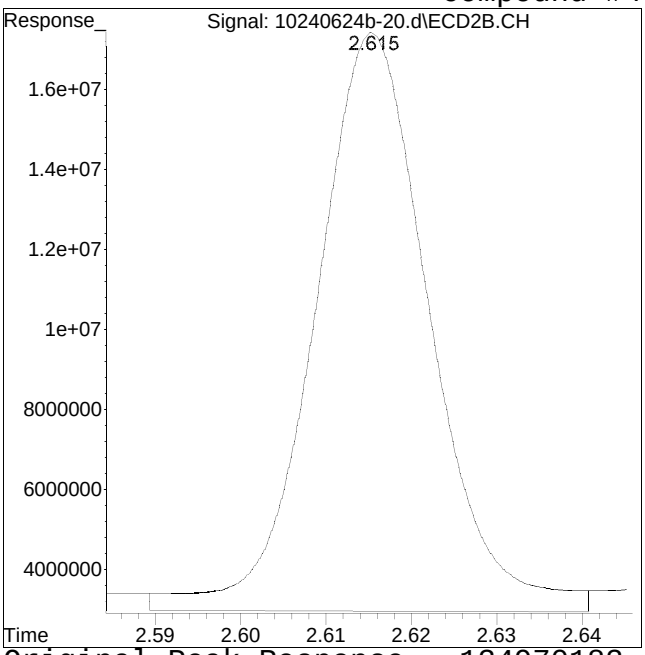
Manual Peak Response = 441424707 M4

M4 = Poor automated baseline construction.

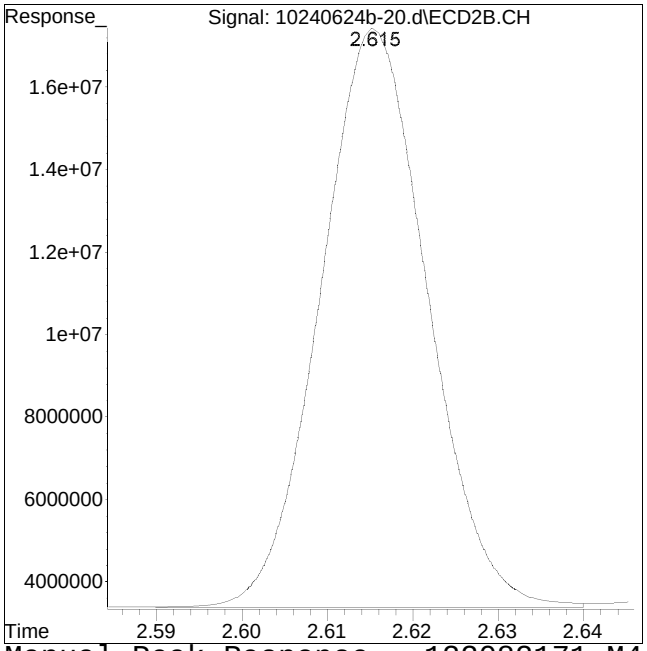
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240624QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240624b-20.d Operator : PEST10:emr
Date Inj'd : 6/24/2024 19:25 Instrument : Pest 10
Sample : WG1938134-5,42,, msd Quant Date : 6/25/2024 8:58 am

Compound #44: beta-BHC #2



Original Peak Response = 134970183



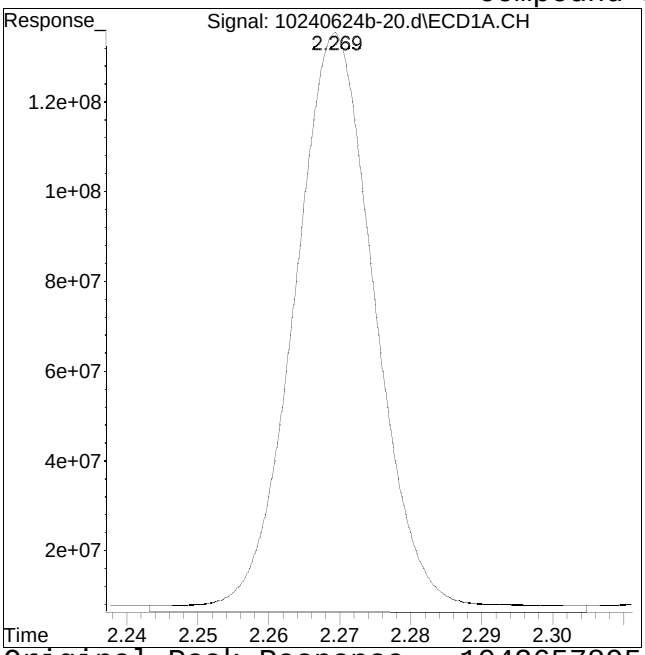
Manual Peak Response = 122082171 M4

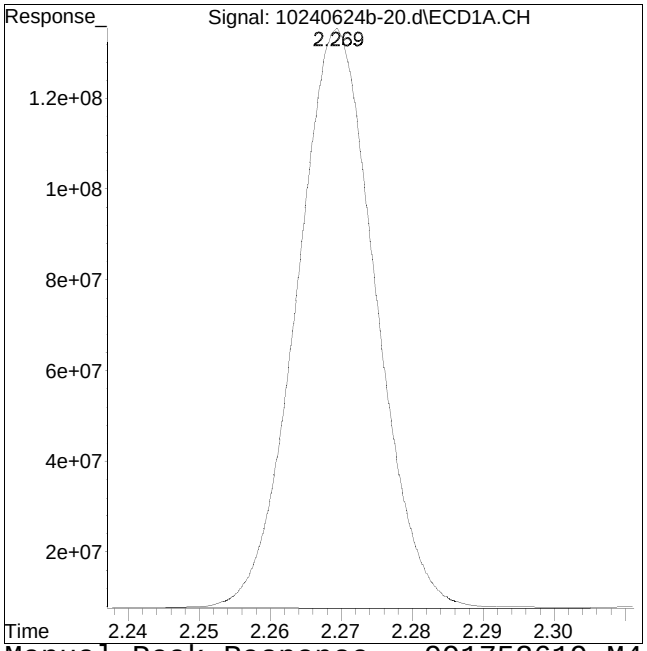
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240624QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240624b-20.d Operator : PEST10:emr
Date Inj'd : 6/24/2024 19:25 Instrument : Pest 10
Sample : WG1938134-5,42,, msd Quant Date : 6/25/2024 8:58 am

Compound #7: delta-BHC



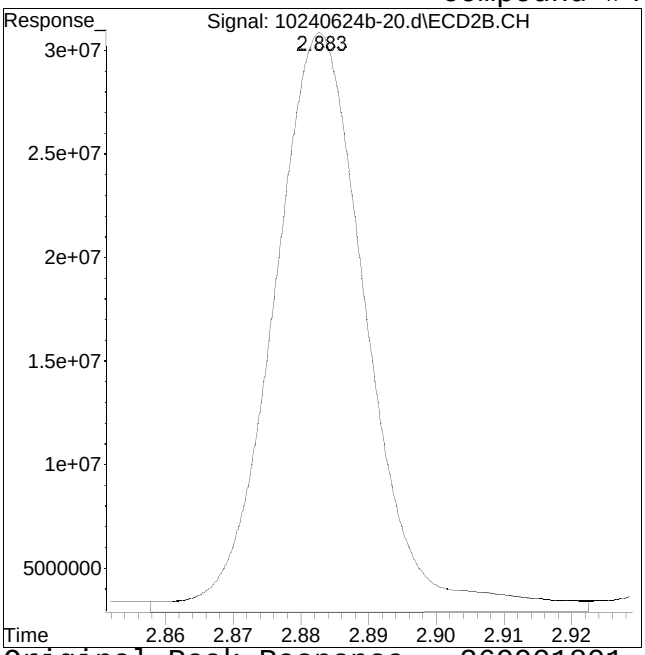


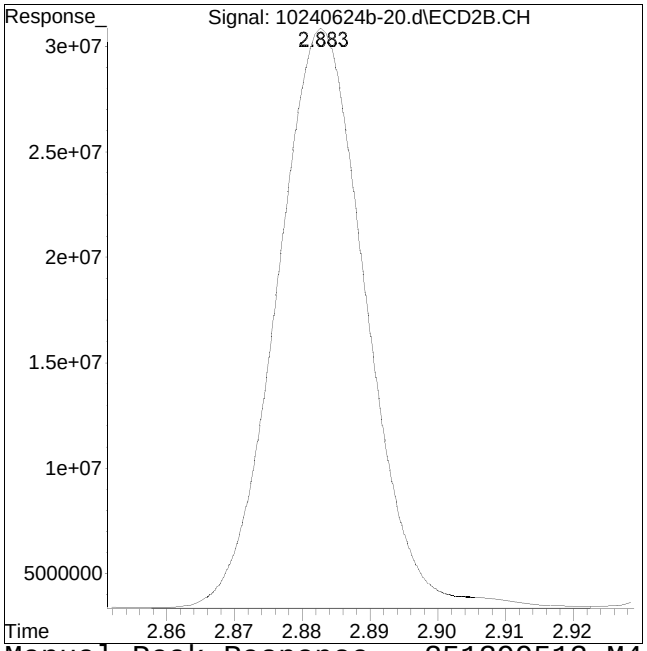
Original Peak Response = 1042657895 Manual Peak Response = 991752619 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240624QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240624b-20.d Operator : PEST10:emr
Date Inj'd : 6/24/2024 19:25 Instrument : Pest 10
Sample : WG1938134-5,42,, msd Quant Date : 6/25/2024 8:58 am

Compound #45: delta-BHC #2



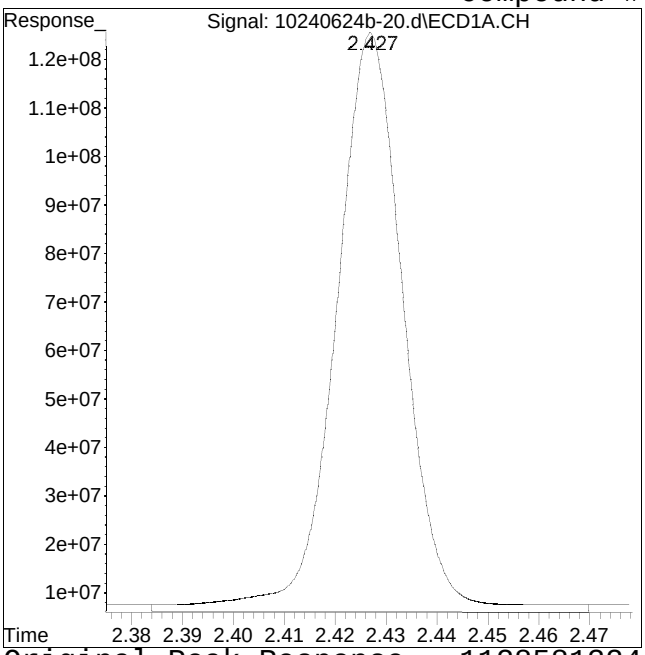


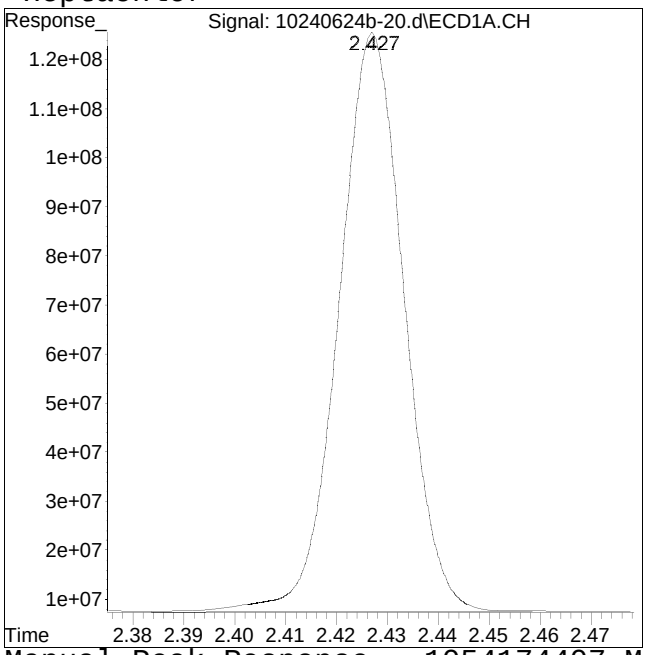
Original Peak Response = 269901801 Manual Peak Response = 251399513 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240624QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240624b-20.d Operator : PEST10:emr
Date Inj'd : 6/24/2024 19:25 Instrument : Pest 10
Sample : WG1938134-5,42,, msd Quant Date : 6/25/2024 8:58 am

Compound #8: Heptachlor



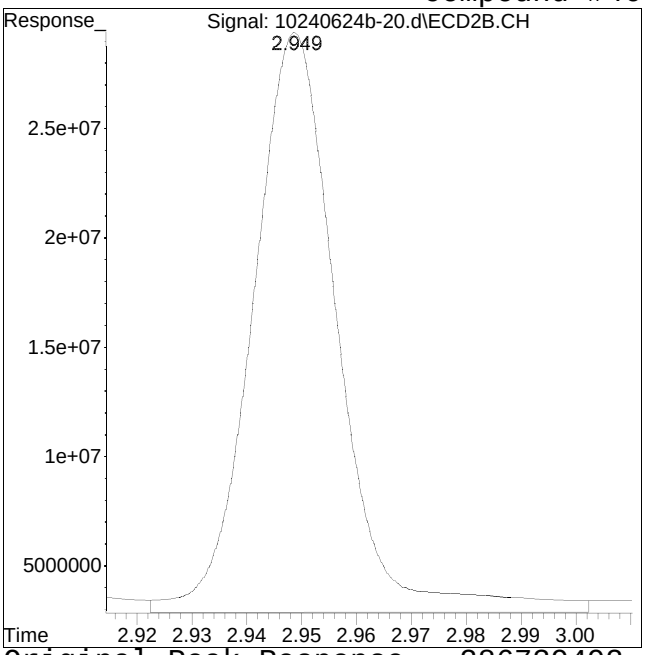


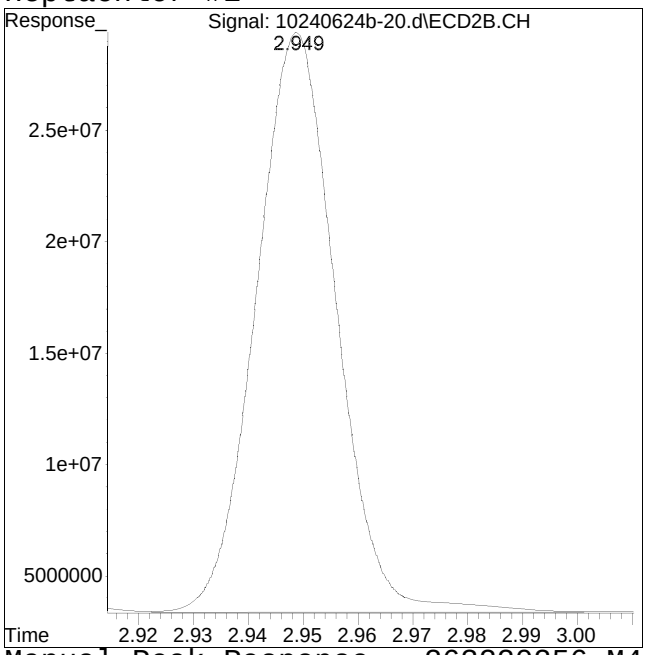
Original Peak Response = 1128581324 Manual Peak Response = 1054174407 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240624QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240624b-20.d Operator : PEST10:emr
Date Inj'd : 6/24/2024 19:25 Instrument : Pest 10
Sample : WG1938134-5,42,, msd Quant Date : 6/25/2024 8:58 am

Compound #46: Heptachlor #2



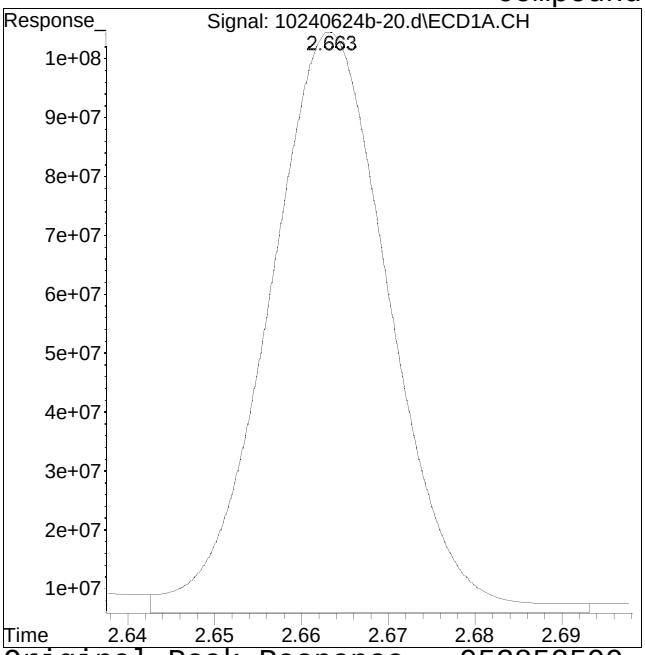


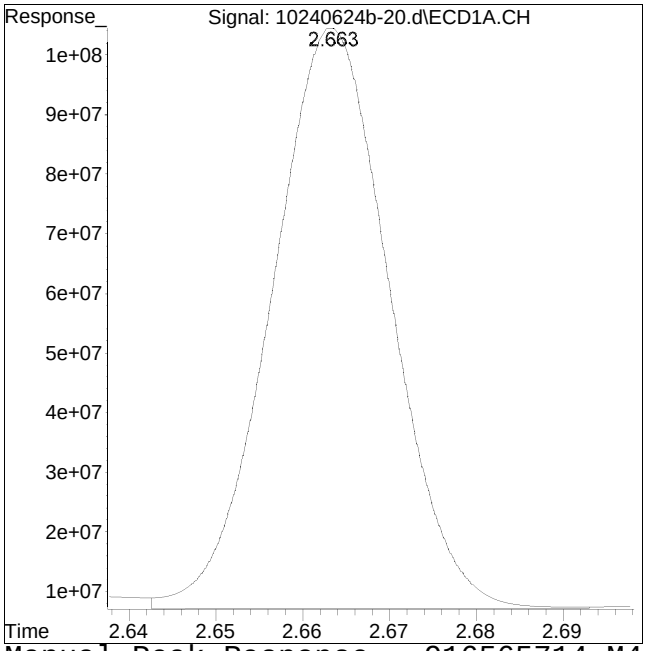
Original Peak Response = 286739492 Manual Peak Response = 263220256 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240624QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240624b-20.d Operator : PEST10:emr
Date Inj'd : 6/24/2024 19:25 Instrument : Pest 10
Sample : WG1938134-5,42,, msd Quant Date : 6/25/2024 8:58 am

Compound #9: Aldrin



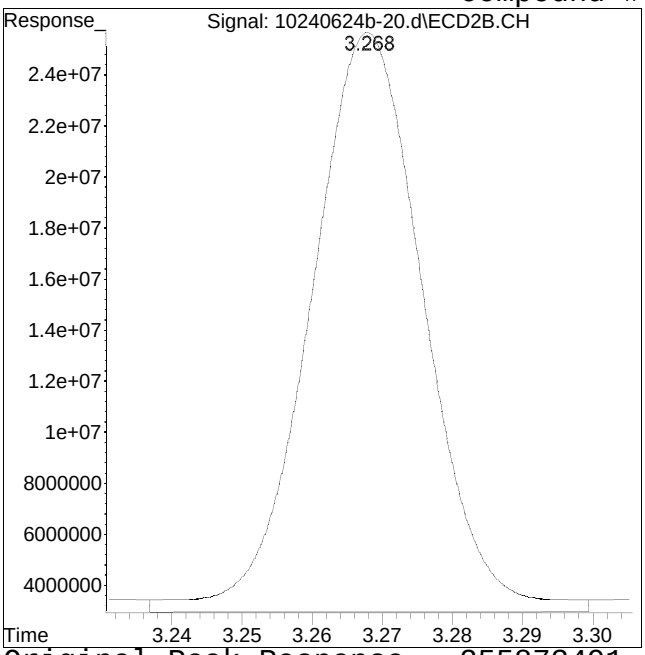


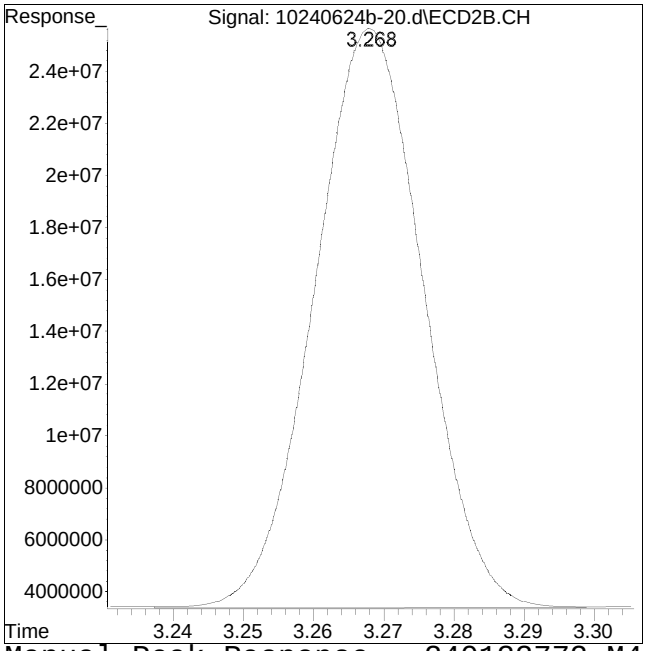
Original Peak Response = 953852599 Manual Peak Response = 916565714 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240624QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240624b-20.d Operator : PEST10:emr
Date Inj'd : 6/24/2024 19:25 Instrument : Pest 10
Sample : WG1938134-5,42,, msd Quant Date : 6/25/2024 8:58 am

Compound #47: Aldrin #2



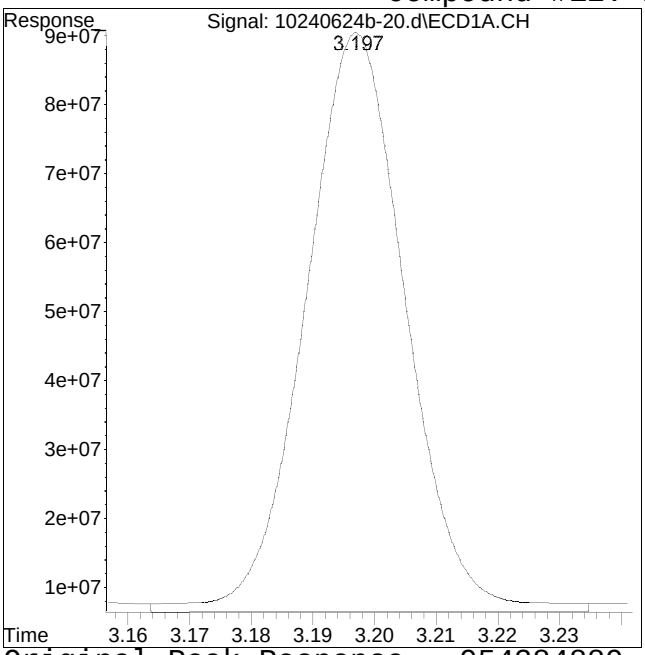


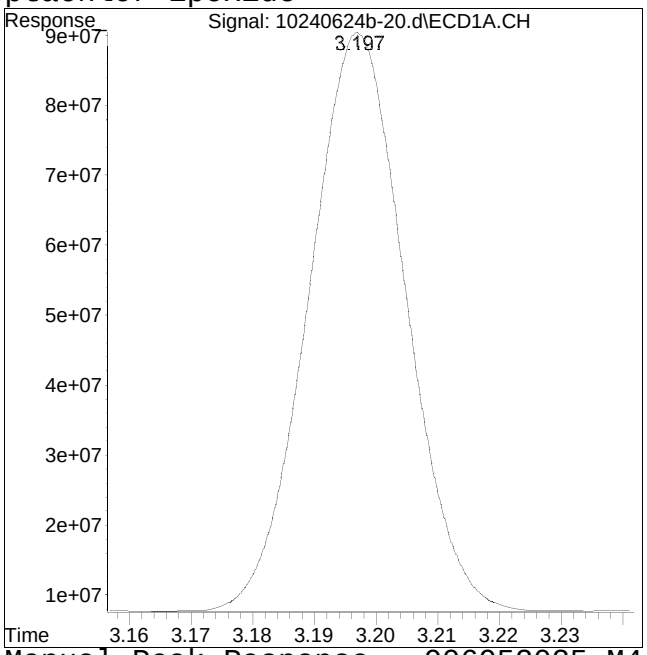
Original Peak Response = 255873491 Manual Peak Response = 240133772 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240624QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240624b-20.d Operator : PEST10:emr
Date Inj'd : 6/24/2024 19:25 Instrument : Pest 10
Sample : WG1938134-5,42,, msd Quant Date : 6/25/2024 8:58 am

Compound #12: Heptachlor Epoxide



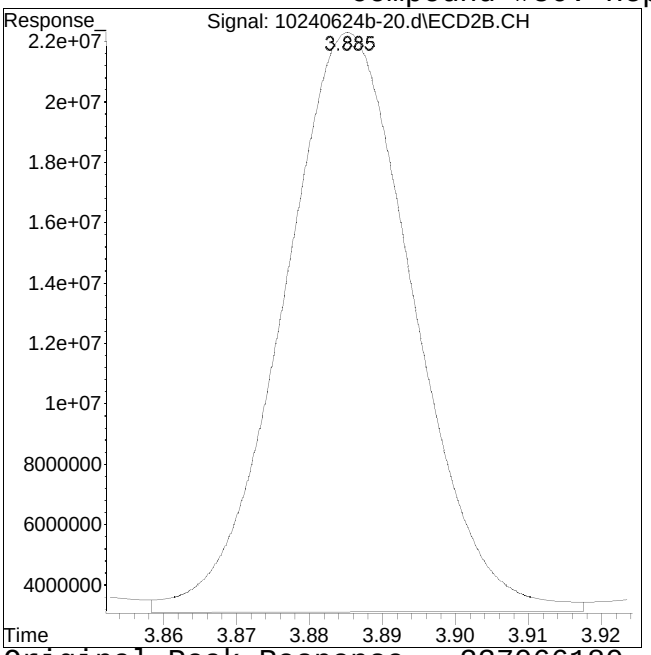


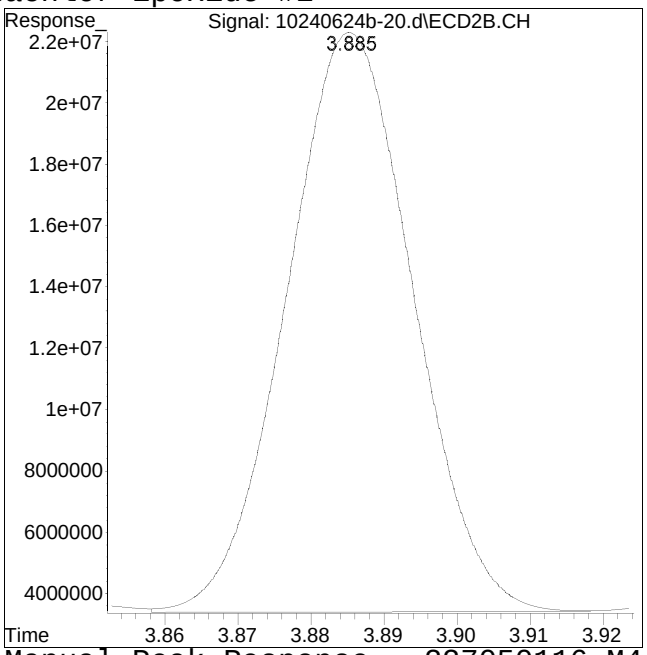
Original Peak Response = 954384889 Manual Peak Response = 906952025 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240624QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240624b-20.d Operator : PEST10:emr
Date Inj'd : 6/24/2024 19:25 Instrument : Pest 10
Sample : WG1938134-5,42,, msd Quant Date : 6/25/2024 8:58 am

Compound #50: Heptachlor Epoxide #2



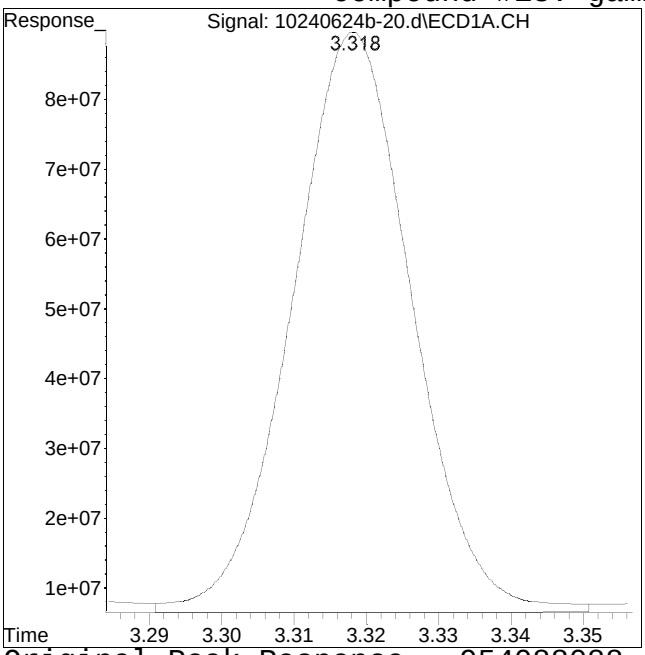


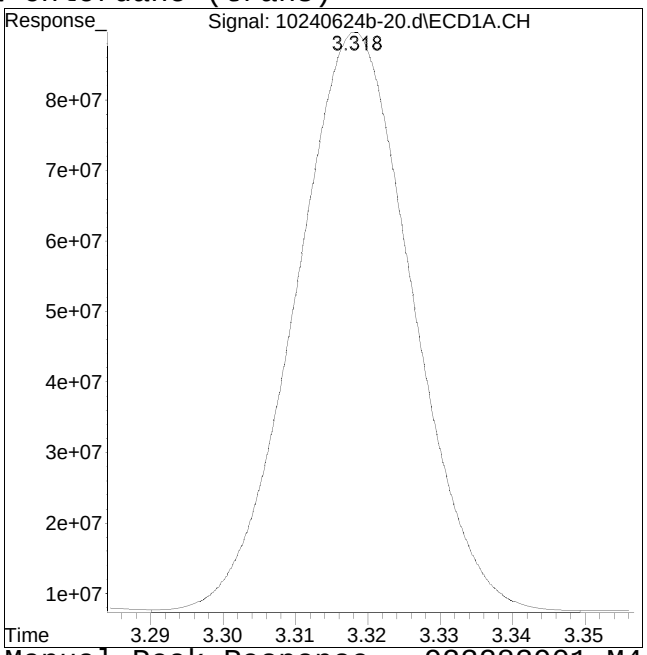
Original Peak Response = 237066180 Manual Peak Response = 227050116 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240624QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240624b-20.d Operator : PEST10:emr
Date Inj'd : 6/24/2024 19:25 Instrument : Pest 10
Sample : WG1938134-5,42,, msd Quant Date : 6/25/2024 8:58 am

Compound #13: gamma-Chlordane (trans)



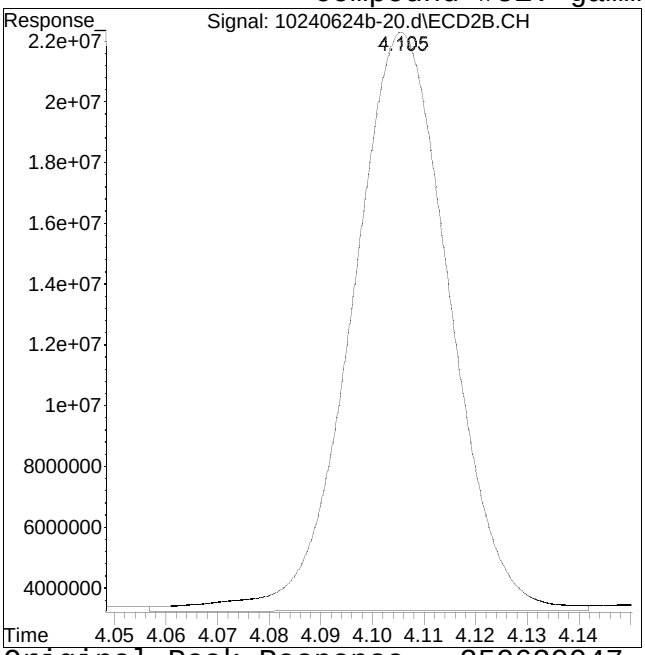


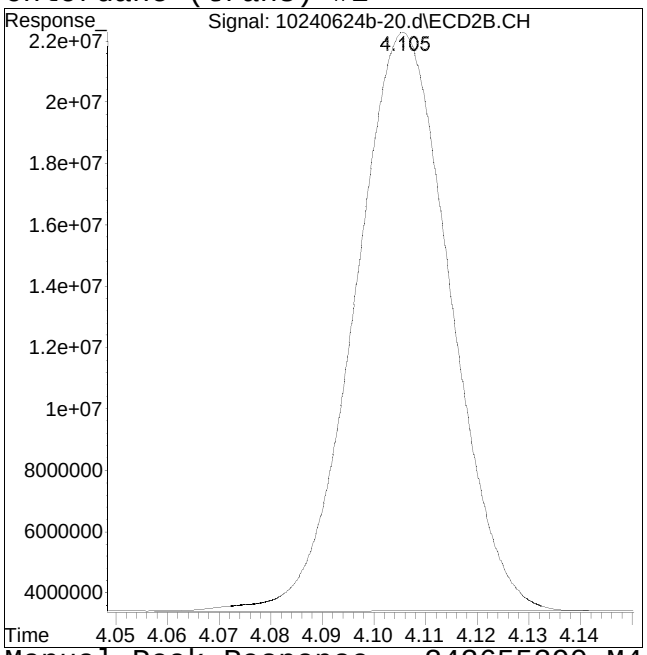
Original Peak Response = 954088088 Manual Peak Response = 923283901 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240624QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240624b-20.d Operator : PEST10:emr
Date Inj'd : 6/24/2024 19:25 Instrument : Pest 10
Sample : WG1938134-5,42,, msd Quant Date : 6/25/2024 8:58 am

Compound #51: gamma-Chlordane (trans) #2



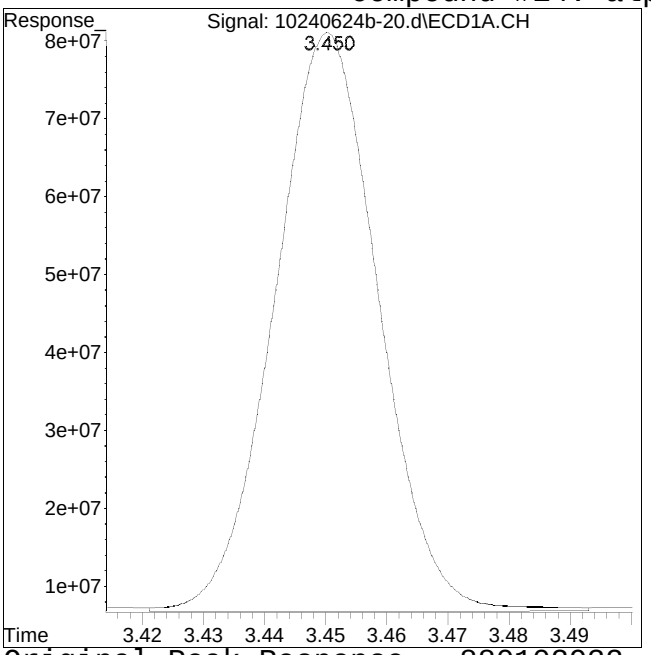


Original Peak Response = 250629947 Manual Peak Response = 242655390 M4
M4 = Poor automated baseline construction.

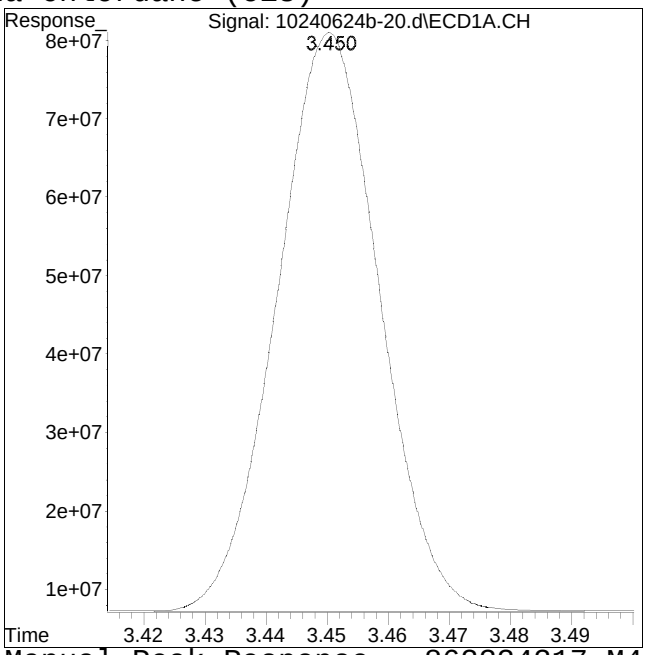
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240624QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240624b-20.d Operator : PEST10:emr
Date Inj'd : 6/24/2024 19:25 Instrument : Pest 10
Sample : WG1938134-5,42,, msd Quant Date : 6/25/2024 8:58 am

Compound #14: alpha-Chlordane (cis)



Original Peak Response = 880102932



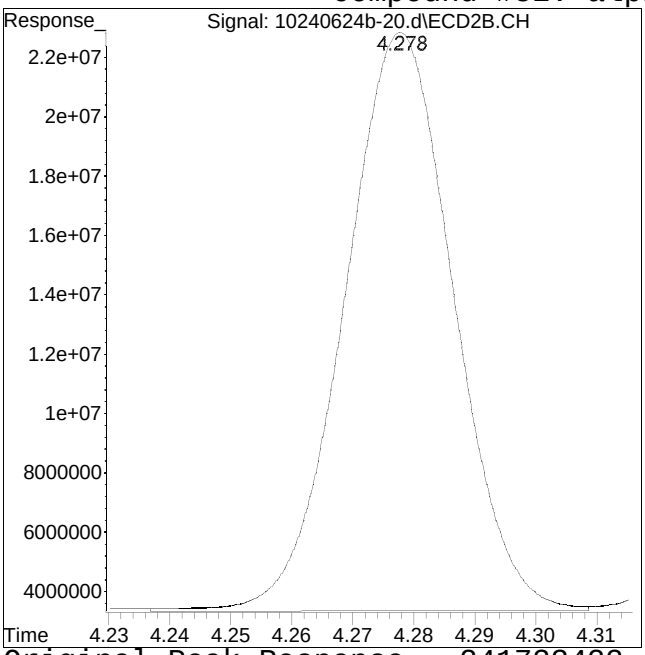
Manual Peak Response = 862334317 M4

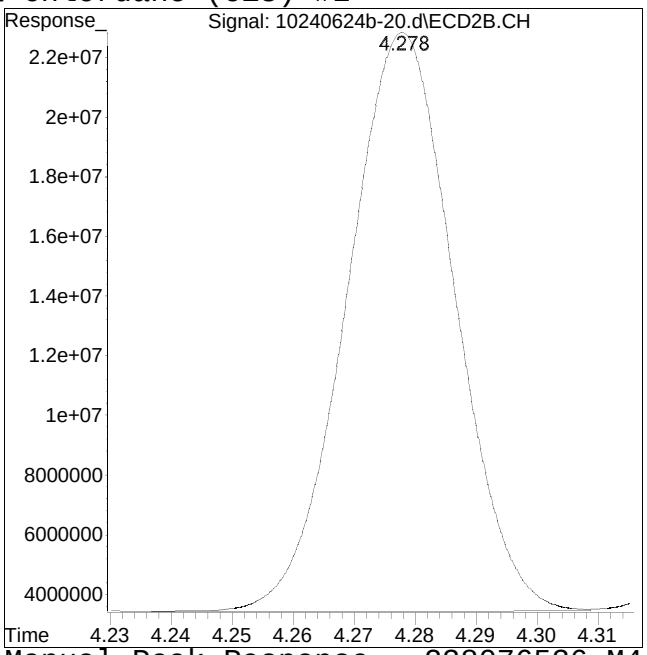
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240624QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240624b-20.d Operator : PEST10:emr
Date Inj'd : 6/24/2024 19:25 Instrument : Pest 10
Sample : WG1938134-5,42,, msd Quant Date : 6/25/2024 8:58 am

Compound #52: alpha-Chlordane (cis) #2



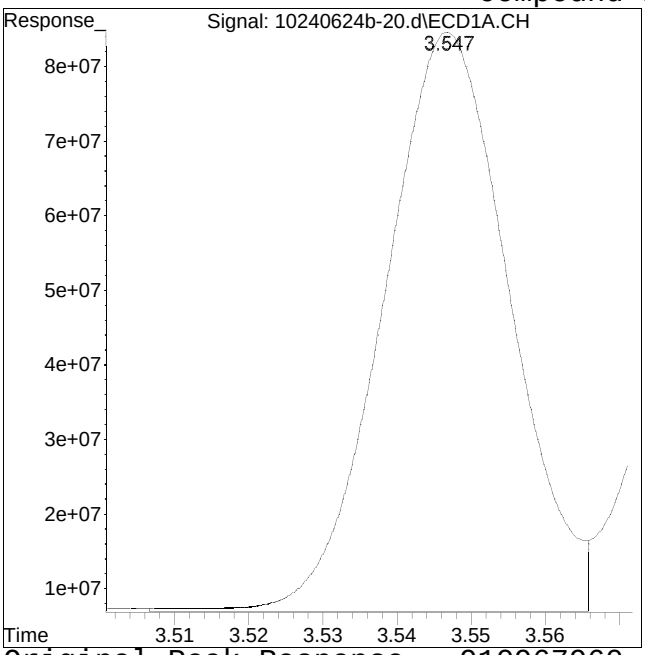


Original Peak Response = 241733422 Manual Peak Response = 238076536 M4
M4 = Poor automated baseline construction.

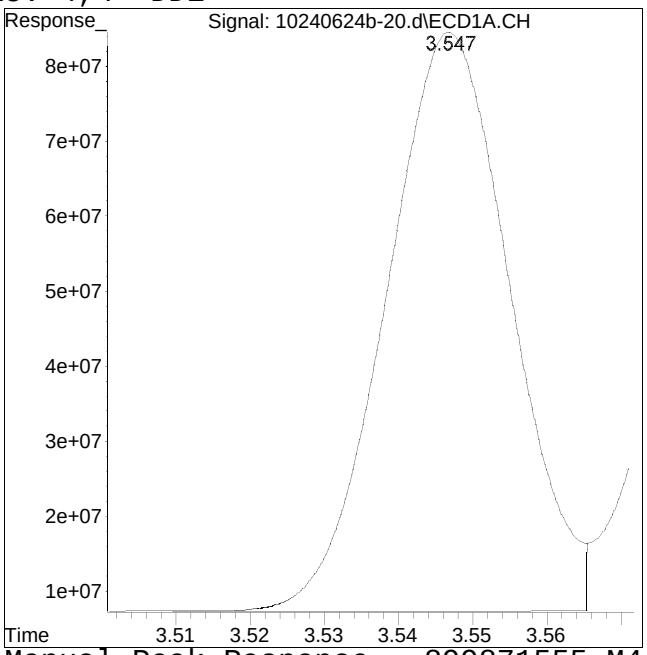
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240624QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240624b-20.d Operator : PEST10:emr
Date Inj'd : 6/24/2024 19:25 Instrument : Pest 10
Sample : WG1938134-5,42,, msd Quant Date : 6/25/2024 8:58 am

Compound #15: 4,4'-DDE



Original Peak Response = 910967960



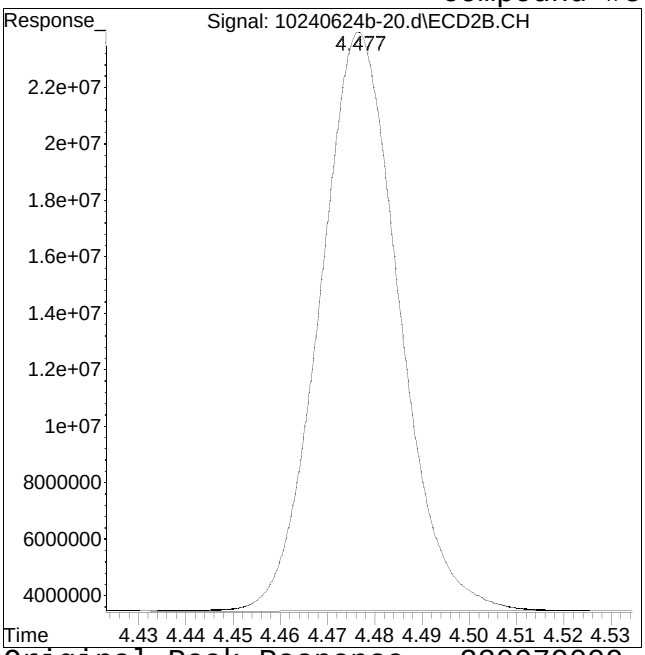
Manual Peak Response = 899871555 M4

M4 = Poor automated baseline construction.

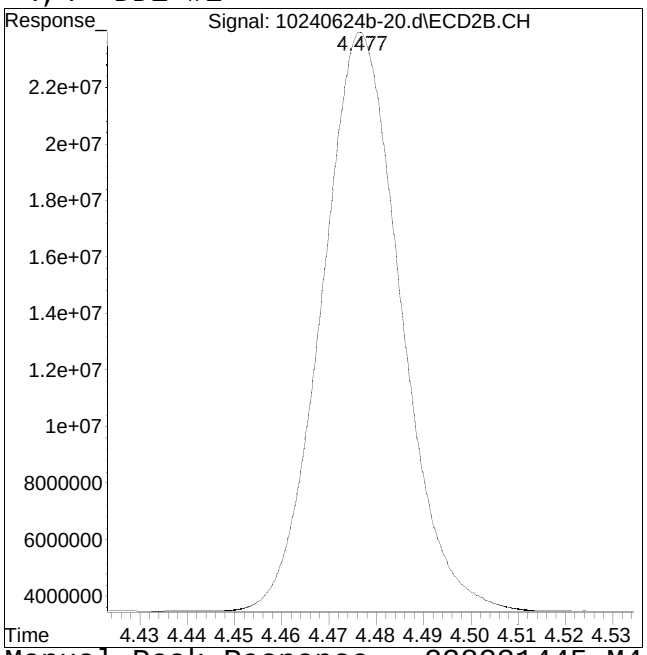
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240624QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240624b-20.d Operator : PEST10:emr
Date Inj'd : 6/24/2024 19:25 Instrument : Pest 10
Sample : WG1938134-5,42,, msd Quant Date : 6/25/2024 8:58 am

Compound #53: 4,4'-DDE #2



Original Peak Response = 239079009



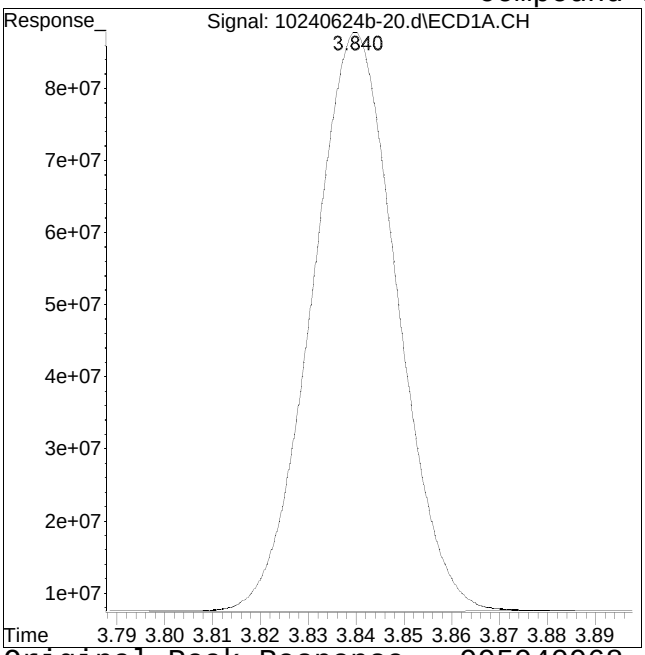
Manual Peak Response = 238331445 M4

M4 = Poor automated baseline construction.

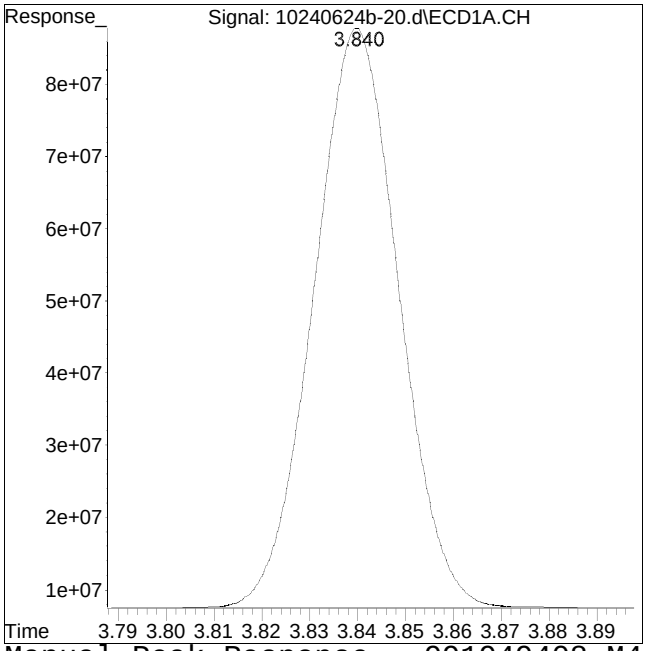
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240624QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240624b-20.d Operator : PEST10:emr
Date Inj'd : 6/24/2024 19:25 Instrument : Pest 10
Sample : WG1938134-5,42,, msd Quant Date : 6/25/2024 8:58 am

Compound #17: Dieldrin



Original Peak Response = 995940968



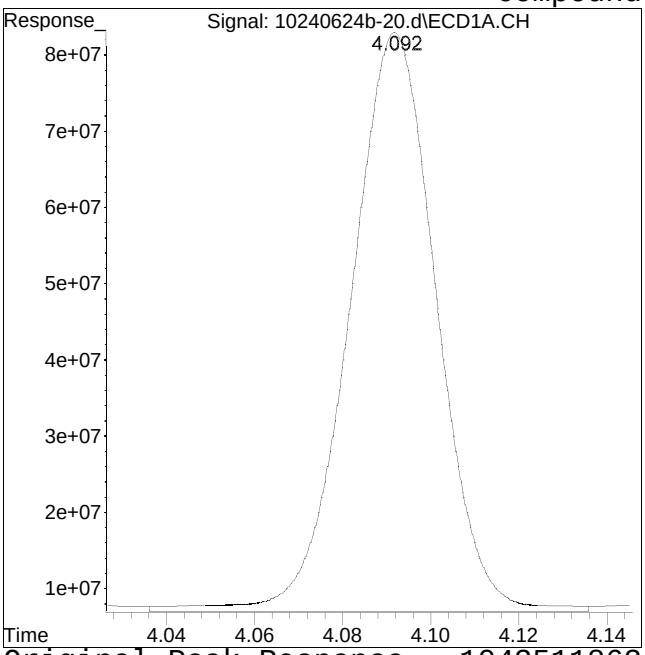
Manual Peak Response = 991949408 M4

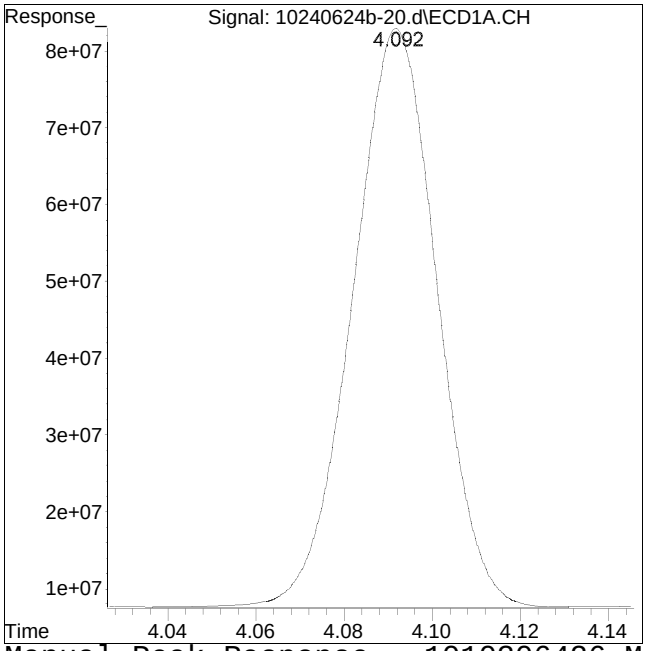
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240624QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240624b-20.d Operator : PEST10:emr
Date Inj'd : 6/24/2024 19:25 Instrument : Pest 10
Sample : WG1938134-5,42,, msd Quant Date : 6/25/2024 8:58 am

Compound #18: Endrin



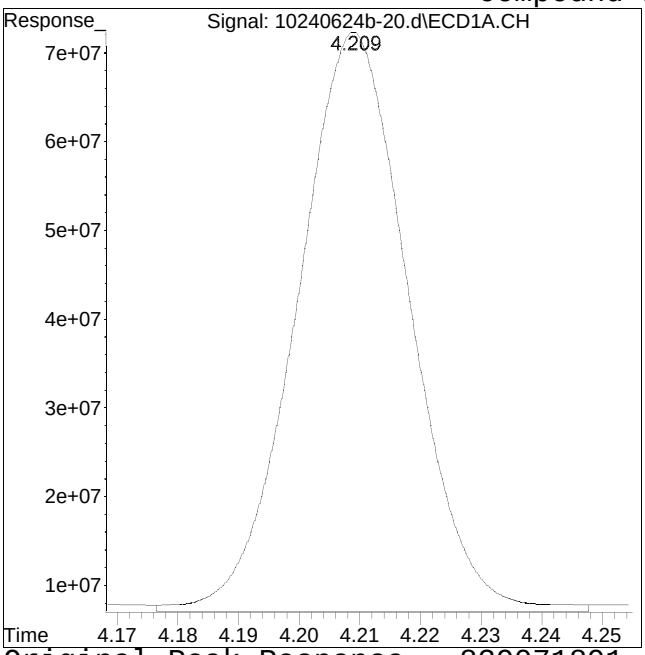


Original Peak Response = 1043511863 Manual Peak Response = 1010306426 M4
M4 = Poor automated baseline construction.

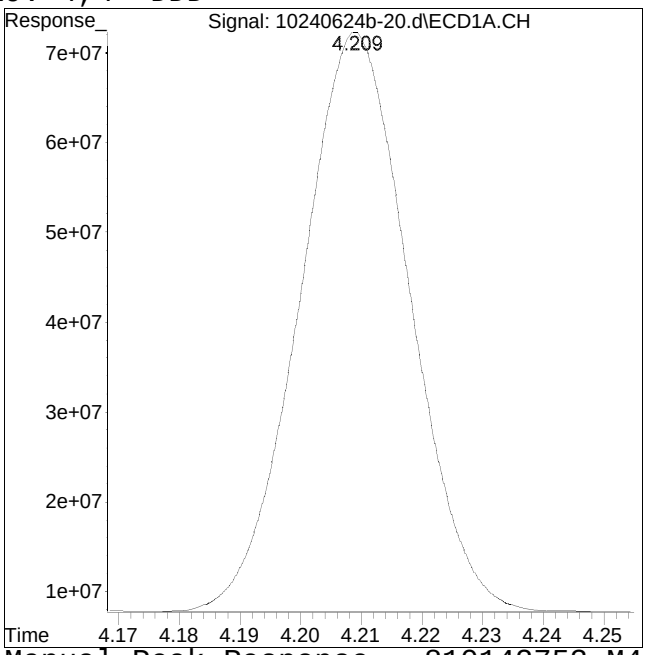
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240624QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240624b-20.d Operator : PEST10:emr
Date Inj'd : 6/24/2024 19:25 Instrument : Pest 10
Sample : WG1938134-5,42,, msd Quant Date : 6/25/2024 8:58 am

Compound #19: 4,4'-DDD



Original Peak Response = 839071891



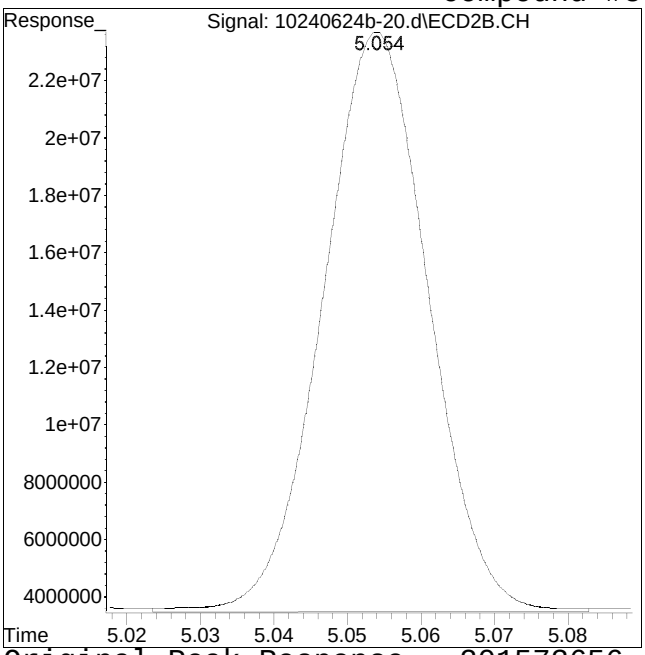
Manual Peak Response = 810142753 M4

M4 = Poor automated baseline construction.

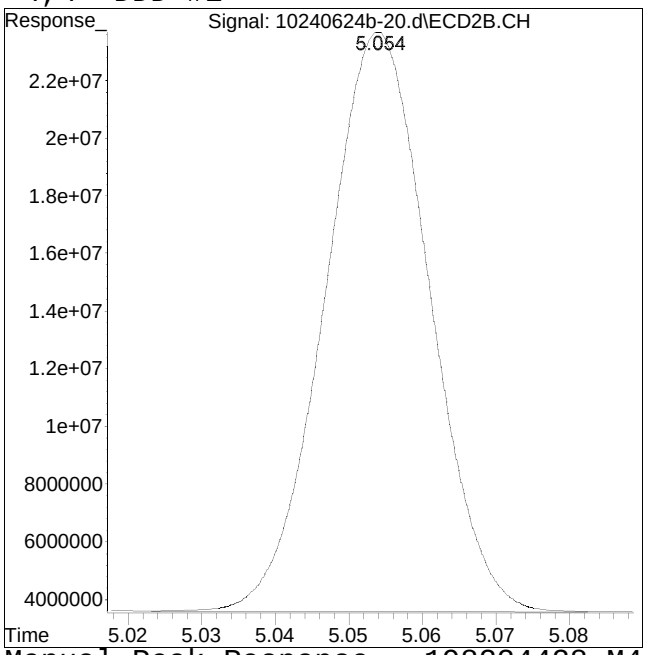
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240624QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240624b-20.d Operator : PEST10:emr
Date Inj'd : 6/24/2024 19:25 Instrument : Pest 10
Sample : WG1938134-5,42,, msd Quant Date : 6/25/2024 8:58 am

Compound #57: 4,4'-DDD #2



Original Peak Response = 201573656



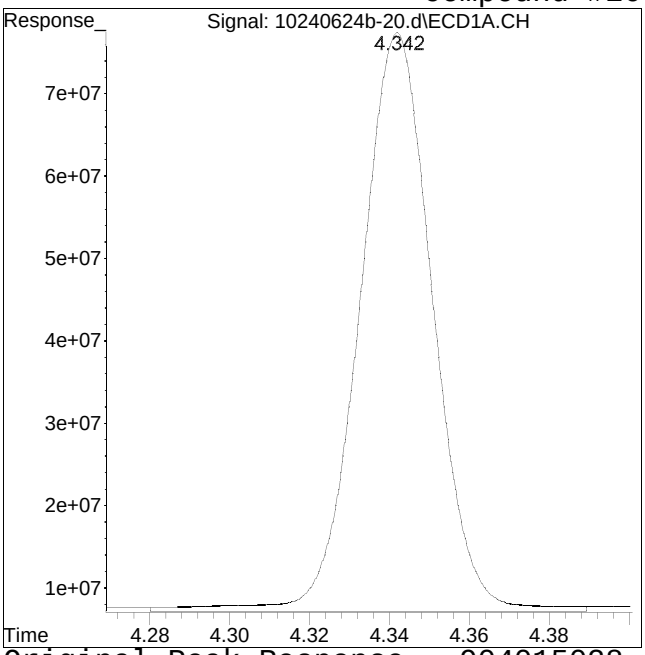
Manual Peak Response = 198224428 M4

M4 = Poor automated baseline construction.

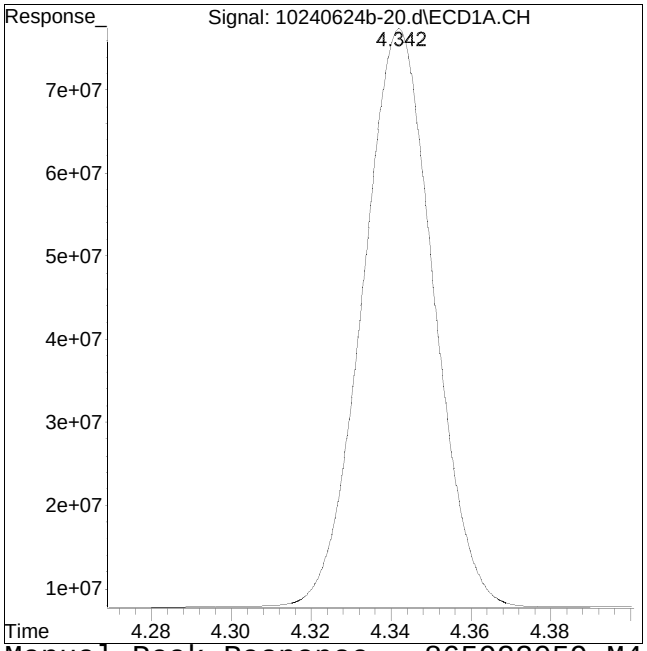
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240624QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240624b-20.d Operator : PEST10:emr
Date Inj'd : 6/24/2024 19:25 Instrument : Pest 10
Sample : WG1938134-5,42,, msd Quant Date : 6/25/2024 8:58 am

Compound #20: Endosulfan II



Original Peak Response = 904015028



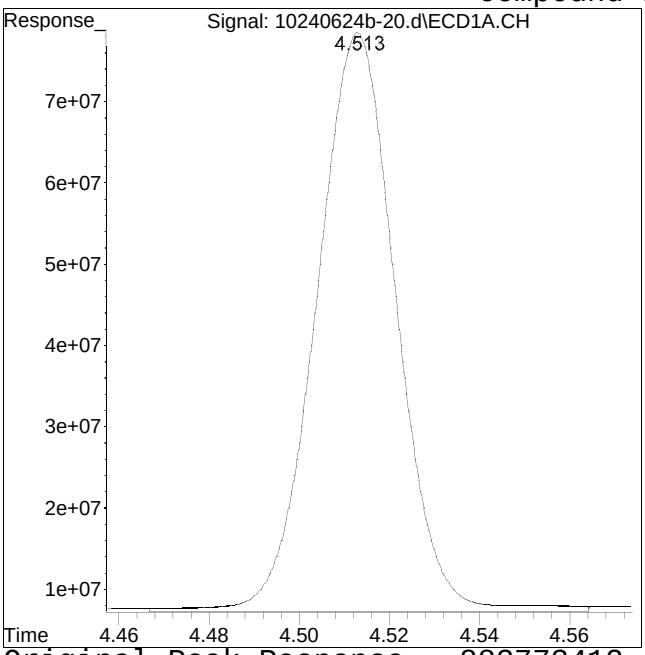
Manual Peak Response = 865923059 M4

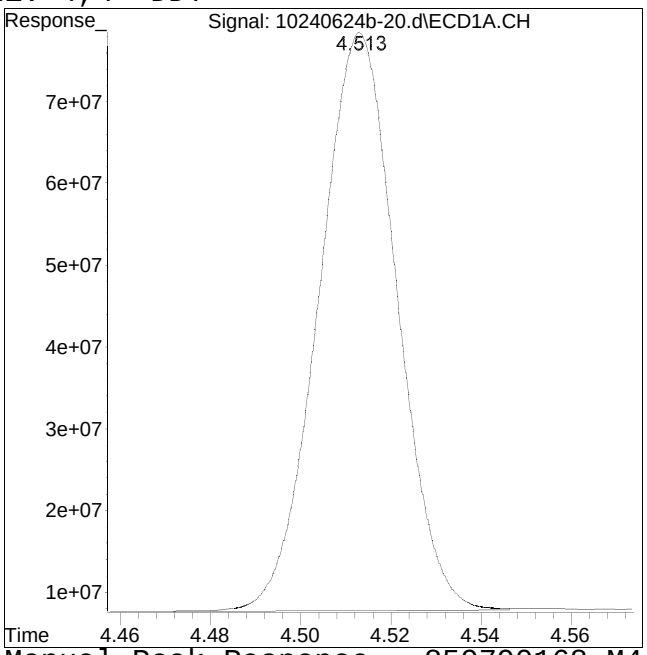
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240624QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240624b-20.d Operator : PEST10:emr
Date Inj'd : 6/24/2024 19:25 Instrument : Pest 10
Sample : WG1938134-5,42,, msd Quant Date : 6/25/2024 8:58 am

Compound #21: 4,4'-DDT



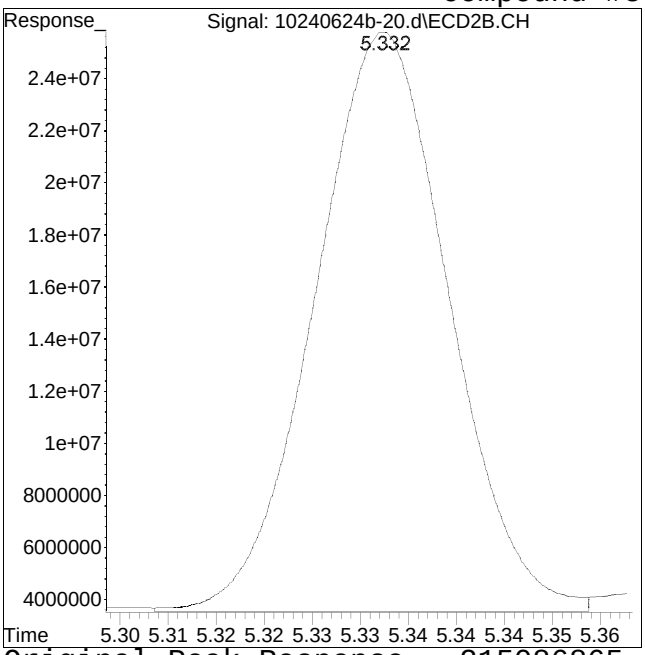


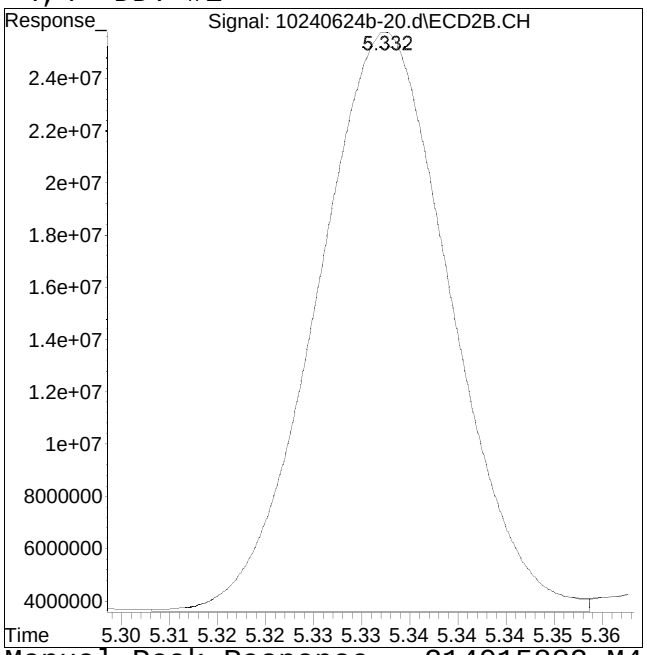
Original Peak Response = 883773412 Manual Peak Response = 850790168 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240624QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240624b-20.d Operator : PEST10:emr
Date Inj'd : 6/24/2024 19:25 Instrument : Pest 10
Sample : WG1938134-5,42,, msd Quant Date : 6/25/2024 8:58 am

Compound #59: 4,4'-DDT #2



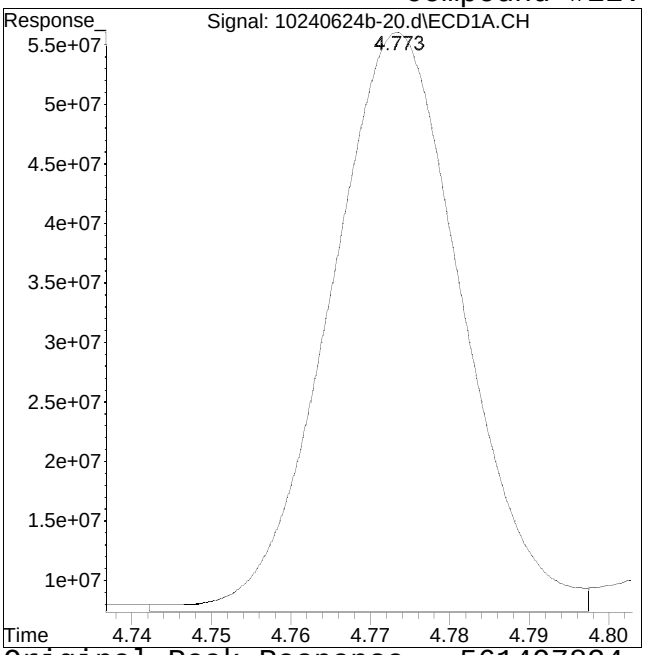


Original Peak Response = 215086865 Manual Peak Response = 214015832 M4
M4 = Poor automated baseline construction.

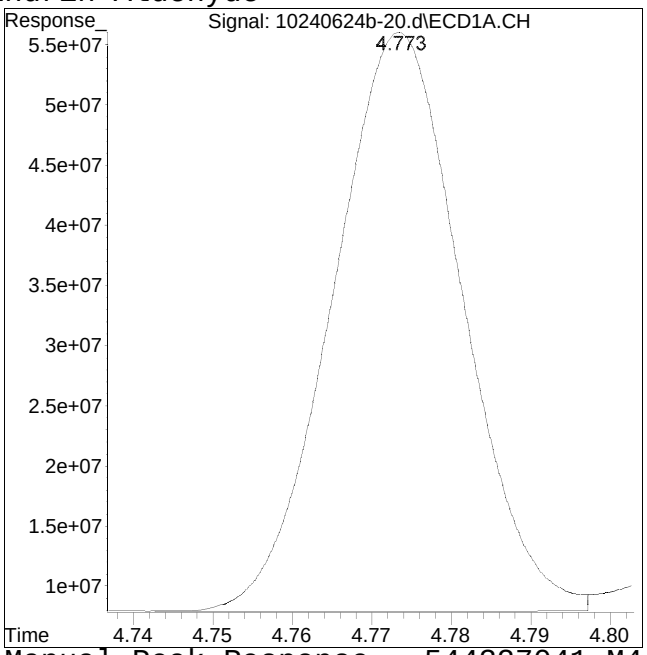
Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240624QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240624b-20.d Operator : PEST10:emr
Date Inj'd : 6/24/2024 19:25 Instrument : Pest 10
Sample : WG1938134-5,42,, msd Quant Date : 6/25/2024 8:58 am

Compound #22: Endrin Aldehyde



Original Peak Response = 561497824

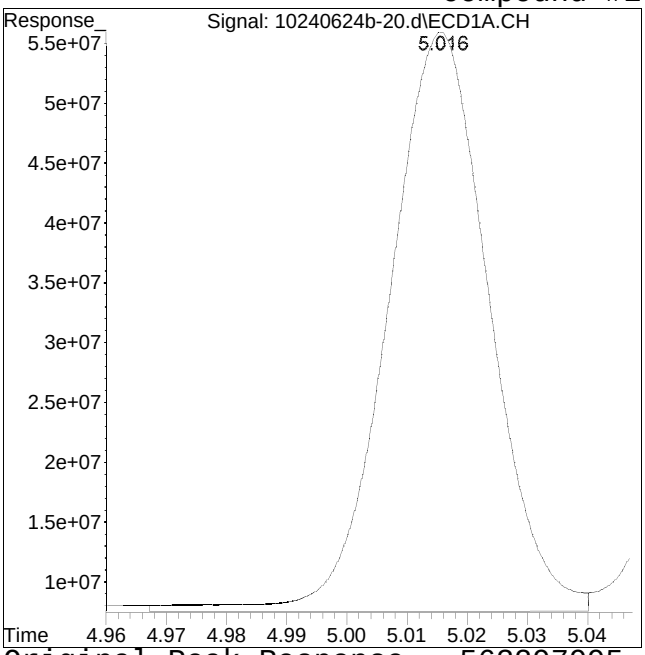


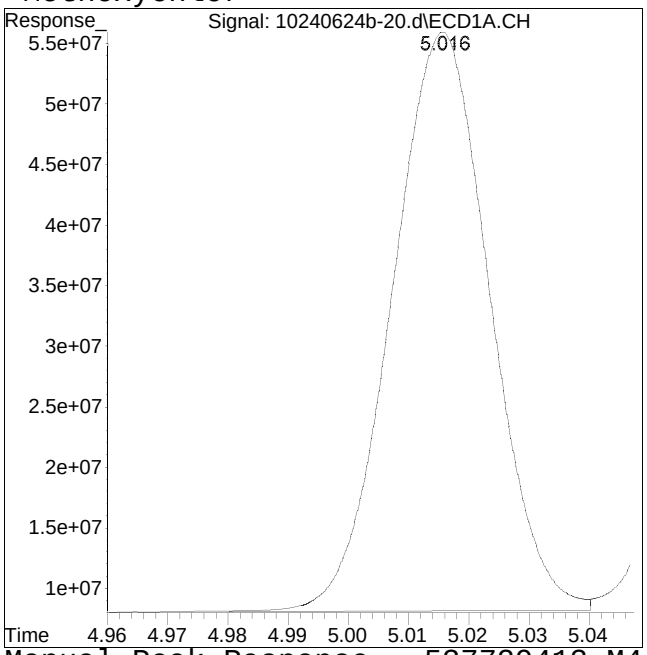
Manual Peak Response = 544327041 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240624QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240624b-20.d Operator : PEST10:emr
Date Inj'd : 6/24/2024 19:25 Instrument : Pest 10
Sample : WG1938134-5,42,, msd Quant Date : 6/25/2024 8:58 am

Compound #23: Methoxychlor



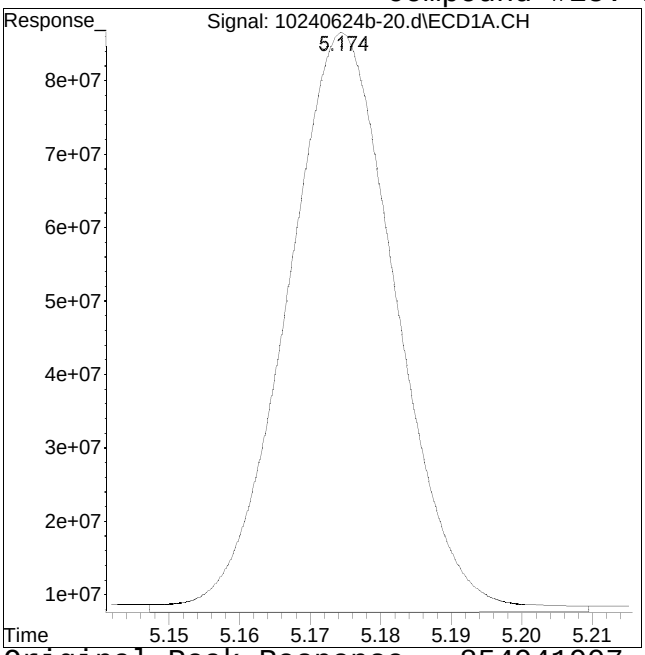


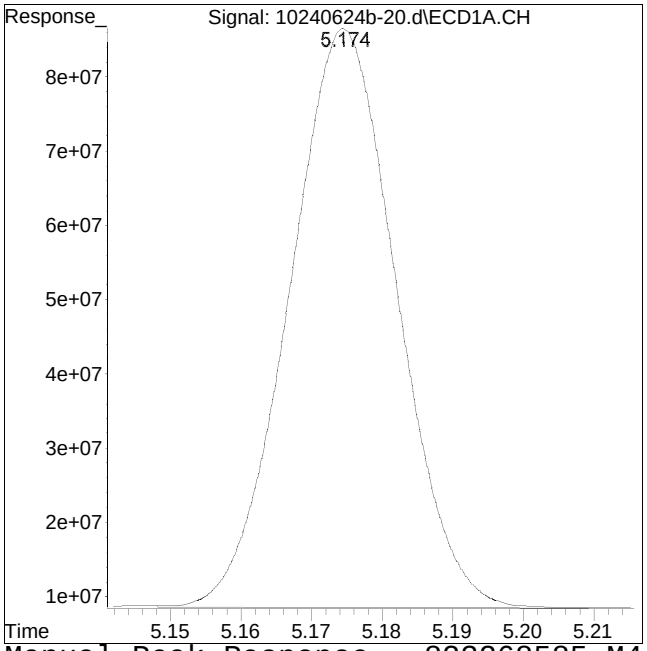
Original Peak Response = 563297995 Manual Peak Response = 537729413 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240624QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240624b-20.d Operator : PEST10:emr
Date Inj'd : 6/24/2024 19:25 Instrument : Pest 10
Sample : WG1938134-5,42,, msd Quant Date : 6/25/2024 8:58 am

Compound #25: Endosulfan Sulfate



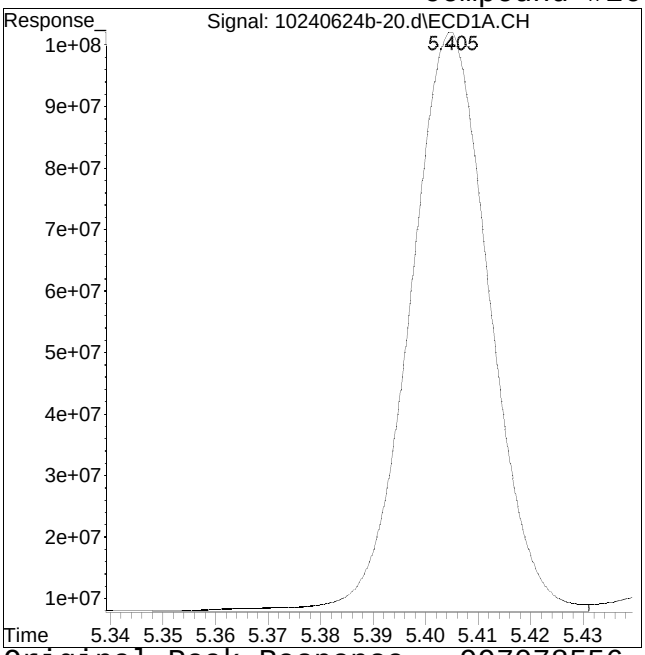


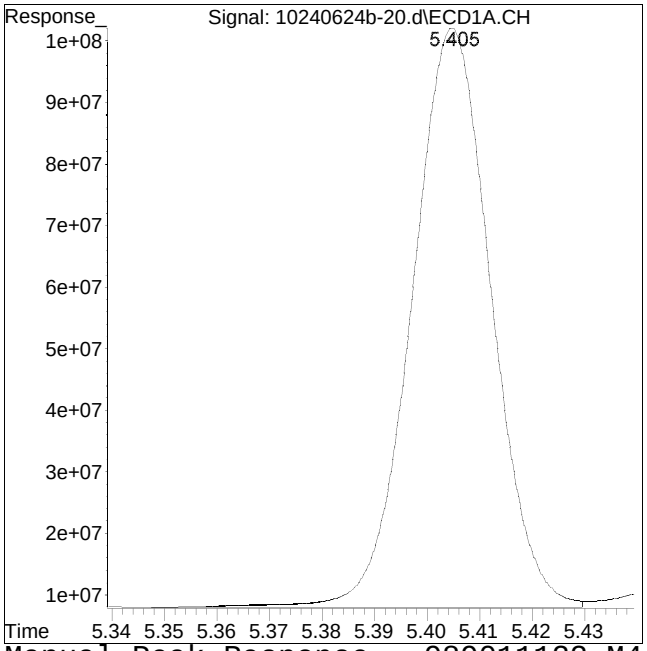
Original Peak Response = 854941907 Manual Peak Response = 823268585 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240624QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240624b-20.d Operator : PEST10:emr
Date Inj'd : 6/24/2024 19:25 Instrument : Pest 10
Sample : WG1938134-5,42,, msd Quant Date : 6/25/2024 8:58 am

Compound #26: Endrin Ketone



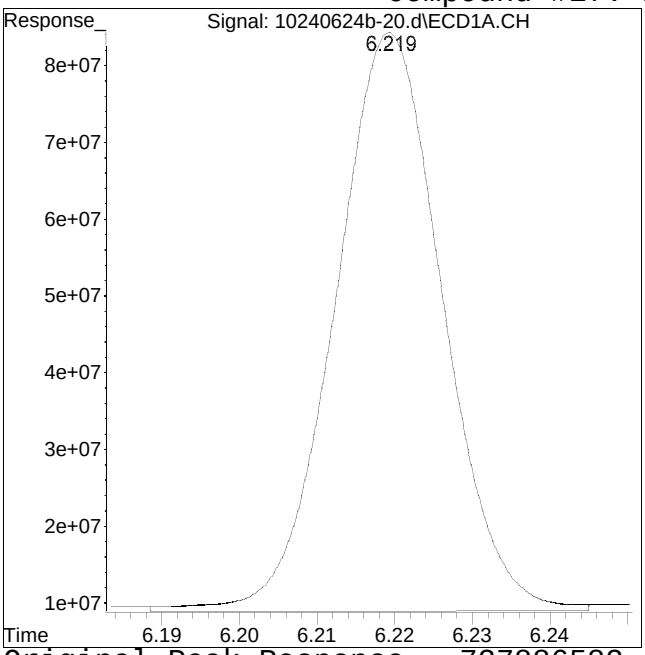


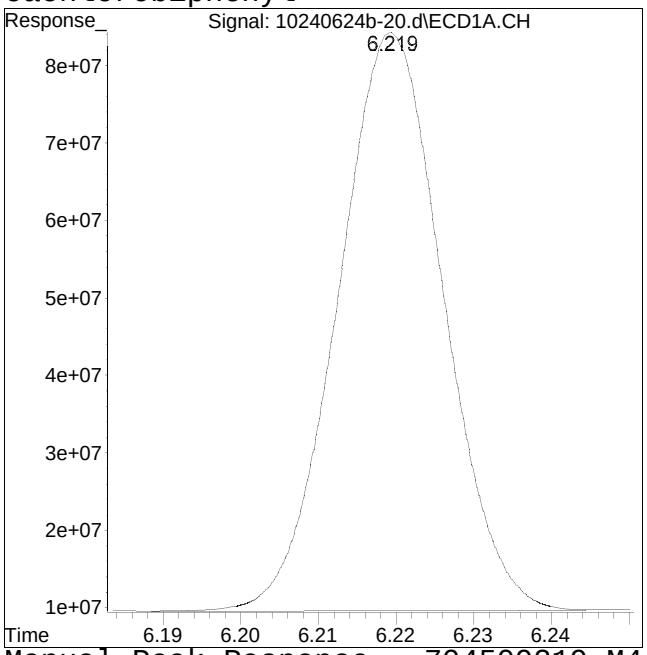
Original Peak Response = 997078556 Manual Peak Response = 989011122 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240624QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240624b-20.d Operator : PEST10:emr
Date Inj'd : 6/24/2024 19:25 Instrument : Pest 10
Sample : WG1938134-5,42,, msd Quant Date : 6/25/2024 8:58 am

Compound #27: Decachlorobiphenyl



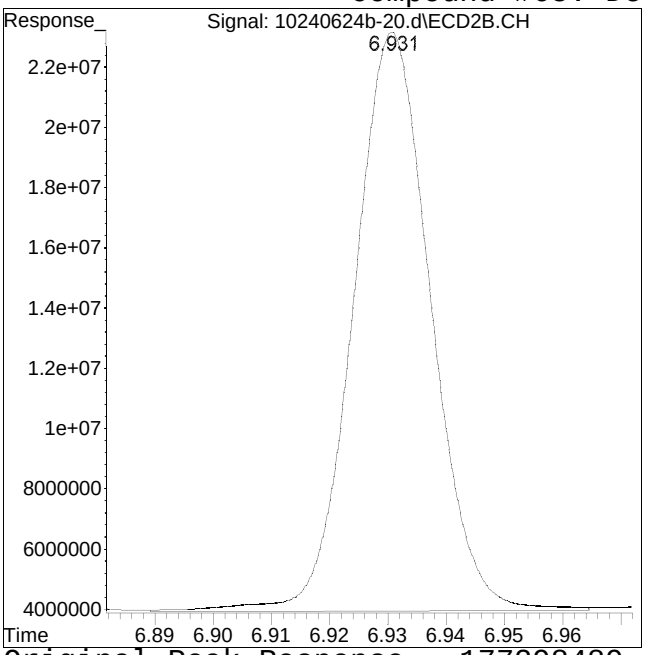


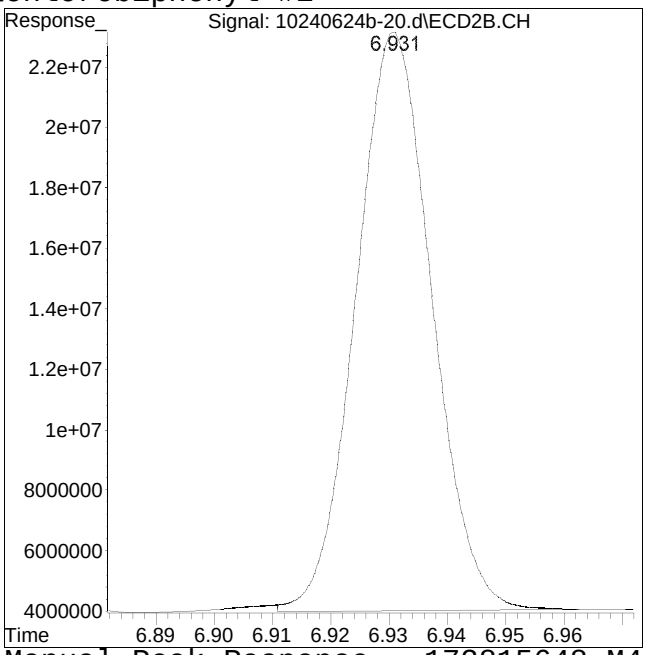
Original Peak Response = 727886582 Manual Peak Response = 704509219 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2024\240624QMethod : pest10_2024_05_02_ugL_ic
Data File : 10240624b-20.d Operator : PEST10:emr
Date Inj'd : 6/24/2024 19:25 Instrument : Pest 10
Sample : WG1938134-5,42,, msd Quant Date : 6/25/2024 8:58 am

Compound #65: Decachlorobiphenyl #2





Original Peak Response = 177298489 Manual Peak Response = 172815648 M4
M4 = Poor automated baseline construction.

Calculation of PCB Aroclors & Pesticides

Aqueous Concentration Formula:
Amt * DF*(Vt/Vp)*(1000/Vo)*(Ve/1000)

Where:
DF = Dilution Factor
Vt = Extract Final Volume (mL)
Vp = Aliquot Cleaned (mL)
Vo = Volume of Sample (mL)
Ve = Extraction Lab Final Volume (mL)

Soil Concentration Formula:
Amt * DF * (Vt/Vp)*(1000/Wt)*(Ve/1000)* (100/TS)

Where:
DF = Dilution Factor
Vt = Extract Final Volume (mL)
Vp = Aliquot Cleaned (mL)
Wt = Weight of Sample (g)
Ve = Extraction Lab Final Volume (mL)
TS = Total Solids

Dep.: Pest
Inst: Pest_10
Date: **05/02/24**
Run: **ical**

Method
GC: PEST

Seq: WG1919460
IS: pp11530

Vial	Data File	Sample	CCAL	notes	initials
1	10240502i-01	Blank,42e,,pp 11530 --			
2	10240502i-02	pem-01,42e,,pp 11529 --			JAG 5/7
3	10240502i-03	il1pest,42e,,pp 11406 L0.0005			JAG 5/7
4	10240502i-04	il2pest,42e,,pp 11405 L0.001			JAG 5/7
5	10240502i-05	il3pest,42e,,pp 11404 L0.002			JAG 5/7
6	10240502i-06	il4pest,42e,,pp 11403 L0.003			JAG 5/7
7	10240502i-07	il5pest,42e,,pp 11402 L0.004			JAG 5/7
8	10240502i-08	il7pest,42e,,pp 11401 L0.01			JAG 5/7
9	10240502i-09	il8pest,42e,,pp 11400 L0.05			JAG 5/7
10	10240502i-10	il9pest,42e,,pp 11399 L0.1			JAG 5/7
11	10240502i-11	il10pest,42e,,pp 11398 L0.2			JAG 5/7
12	10240502i-12	il11pest,42e,,pp 11397 L0.4			JAG 5/7
13	10240502i-13	cicvpest,42e,,pp 11536 L0.05ICV			JAG 5/7
14	10240502i-14	il3chlor,42e,,pp 11509 L0.01			JAG 5/7
15	10240502i-15	il4chlor,42e,,pp 11508 L0.02			JAG 5/7
16	10240502i-16	il5chlor,42e,,pp 11507 L0.1			JAG 5/7
17	10240502i-17	il7chlor,42e,,pp 11506 L0.5			JAG 5/7
18	10240502i-18	il8chlor,42e,,pp 11505 L1.0			JAG 5/7
19	10240502i-19	il9chlor,42e,,pp 11504 L2.0			JAG 5/7
20	10240502i-20	il10chlor,42e,,pp 11549 L5.0		Not used	JAG 5/7
21	10240502i-21	cicvchlor,42e,,pp 11540 L1.0ICV			JAG 5/7
22	10240502i-22	il3tox,42e,,pp 11519 L0.02			JAG 5/7
23	10240502i-23	il4tox,42e,,pp 11518 L0.1			JAG 5/7
24	10240502i-24	il7tox,42e,,pp 11517 L1.0			JAG 5/7
25	10240502i-25	il8tox,42e,,pp 11516 L2.0			JAG 5/7
26	10240502i-26	il9tox,42e,,pp 11510 L5.0			JAG 5/7
27	10240502i-27	cicvtox,42e,,pp 11541 L2.0ICV			JAG 5/7

Dep.: PEST
Inst: Pest_10
Date: **06/24/24**
Run: b

Method
GC: pest

Seq: wg1938709
IS: pp11567

Vial	Data File	Sample	CCAL	notes	screen	initials
1	10240624b-01	blank				
2	10240624b-02	deg11573	15:46			JAG 6/24
3	10240624b-03	pest11595	a/b methoxy high a: g-chlor high			JAG 6/24
4	10240624b-04	chlor11612	15%			JAG 6/24
5	10240624b-05	tox11615	a: high b: 20%			JAG 6/24
6	10240624b-06	blank				
7	10240624b-07	WG1938167-1	,42,, 608		PEG	EMR 6/25
8	10240624b-08	WG1938167-2	,42,, 608			EMR 6/25
9	10240624b-09	L2434383-01	,42,, 608			EMR 6/25
10	10240624b-10	L2434413-01	,42,, 608			EMR 6/25
11	10240624b-11	L2434448-03	,42,, 608			EMR 6/25
12	10240624b-12	L2434619-01	,42,,,R3C 608 re	report 2 sets		EMR 6/25
13	10240624b-13	WG1938134-1	,42,,			EMR 6/25
14	10240624b-14	WG1938134-2	,42,,			EMR 6/25
15	10240624b-15	WG1938134-3	,42,,			EMR 6/25
16	10240624b-16	L2434451-01	,42,,			EMR 6/25
17	10240624b-17	L2434679-02	,42,,			EMR 6/25
18	10240624b-18	L2434679-03	,42,, p			EMR 6/25
19	10240624b-19	WG1938134-4	,42,, ms			EMR 6/25
20	10240624b-20	WG1938134-5	,42,, msd			EMR 6/25
21	10240624b-21	L2434679-04	,42,,			EMR 6/25
22	10240624b-22	L2434679-05	,42,,			EMR 6/25
23	10240624b-23	L2434679-06	,42,,			EMR 6/25
24	10240624b-24	L2434679-07	,42,,			EMR 6/25
25	10240624b-25	L2434679-08	,42,,			EMR 6/25
26	10240624b-26	L2434679-09	,42,,			EMR 6/25
27	10240624b-27	L2434679-10	,42,,			EMR 6/25
28	10240624b-28	L2434679-11	,42,,			EMR 6/25
29	10240624b-29	L2434679-12	,42,,			EMR 6/25
30	10240624b-30	L2434679-14	,42,,			EMR 6/25
31	10240624b-31	L2434334-01	,42,,,R3E t	time 20-jun-24 05:34		EMR 6/25
32	10240624b-32	L2434334-02	,42,,,R3E t	time 20-jun-24 05:34		EMR 6/25
33	10240624b-33	L2434334-03	,42,,,R3E t	time 20-jun-24 05:34		EMR 6/25
34	10240624b-34	pest11595	a: all high, b: g-chlor, dieldrin, endrin, ddd, mirex high			PEG 6/25
35	10240624b-35	L2434440-03	,42,,,R3E t	time 20-jun-24 05:34		EMR 6/25
36	10240624b-36	L2434440-04	,42,,,R3E t	time 20-jun-24 05:34		EMR 6/25
37	10240624b-37	L2434440-05	,42,,,R3E t	time 20-jun-24 05:34		EMR 6/25
38	10240624b-38	L2434339-01	,42,, t	time 22-jun-24 08:06		EMR 6/25
39	10240624b-39	L2434339-02	,42,, t	time 22-jun-24 08:06		EMR 6/25 V to F39 JAG

Dep.: PEST
Inst: Pest_10
Date: **06/26/24**
Run: b

Method
GC: pest

Seq: wg1939871
IS: pp11567

Vial	Data File	Sample	CCAL	notes	screen	initials
1	10240626b-01	blank				
2	10240626b-02	deg11573	17:03			JAG 6/26
3	10240626b-03	pest11595	a: many high b: 20%			JAG 6/26
4	10240626b-04	chlor11612	a: high b: 20%			JAG 6/26
5	10240626b-05	tox11615	a: IS high, b: 10%			PEG 6/27
6	10240626b-06	blank				
7	10240626b-07	L2433109-03d	,42,5,, matrix	5x matrix	PEG	
8	10240626b-08	L2434565-28	,42,,			
9	10240626b-09	L2434565-29	,42,,			
10	10240626b-10	L2434565-30	,42,,			
11	10240626b-11	L2434565-31	,42,,			
12	10240626b-12	L2434565-32	,42,,			
13	10240626b-13	L2434565-33	,42,,			
14	10240626b-14	WG1939637-1	,42,,			PEG 6/27
15	10240626b-15	WG1939637-2	,42,,			PEG 6/27
16	10240626b-16	WG1939637-3	,42,,			PEG 6/27
17	10240626b-17	L2435818-01	,42,,R3B	11027		PEG 6/27
18	10240626b-18	WG1939408-1	,42,,			PEG 6/27
19	10240626b-19	WG1939408-2	,42,,			PEG 6/27
20	10240626b-20	WG1939408-3	,42,,			PEG 6/27
21	10240626b-21	L2434640-30	,42,,			PEG 6/27
22	10240626b-22	L2434679-01	,42,,			PEG 6/27
23	10240626b-23	L2434683-01	,42,,			PEG 6/27
24	10240626b-24	L2434683-02	,42,,			PEG 6/27
25	10240626b-25	L2434683-03	,42,,			PEG 6/27
26	10240626b-26	L2434683-04	,42,,			PEG 6/27

ALPHA ANALYTICAL LABORATORIES, INC.

Alpha WORK GROUP REPORT (wk02)

Jun 27 2024, 01:10 pm

Work Group: WG1938134 for Department: 2 Organic Preparation

Created: 23-JUN-24 Due: Operator: ZCH

Sample	Client ID	C	Product	Matrix	Stat	UA	HOLD	DUE	PR	Location
L2434451-01	MAHWAH RO-TYPE II	S	NYTCL-8081	WATER	DONE	U	0625	0625	NC	Amber-A.120
L2434679-02	MW-6A	S	NYTCL-8081	WATER	DONE	U	0625	0626	S0	Amber-A.120
L2434679-03	MW-6B	S	NYTCL-8081	WATER	DONE	U	0625	0626	S0	Amber-A.120
L2434679-04	MW-6C	S	NYTCL-8081	WATER	DONE	U	0625	0626	S0	Amber-A.120
L2434679-05	MW-7A	S	NYTCL-8081	WATER	DONE	U	0625	0626	S0	Amber-A.120
L2434679-06	MW-7B	S	NYTCL-8081	WATER	DONE	U	0625	0626	S0	Amber-A.120
L2434679-07	MW-7C	S	NYTCL-8081	WATER	DONE	U	0625	0626	S0	Amber-A.120
L2434679-08	MW-8A	S	NYTCL-8081	WATER	DONE	U	0625	0626	S0	Amber-A.120
L2434679-09	MW-8B	S	NYTCL-8081	WATER	DONE	U	0625	0626	S0	Amber-A.120
L2434679-10	MW-9B	S	NYTCL-8081	WATER	DONE	U	0626	0626	S0	Amber-A.120
L2434679-11	DUP	S	NYTCL-8081	WATER	DONE	U	0625	0626	S0	Amber-A.120
L2434679-12	EB	S	NYTCL-8081	WATER	DONE	U	0625	0626	S0	Amber-A.120
L2434679-14	MW-8B2	S	NYTCL-8081	WATER	DONE	U	0625	0626	S0	Amber-A.120
WG1938134-1	Laboratory Method Bl	S	NYTCL-8081	WATER	DONE	U				
WG1938134-2	Laboratory Control S	S	NYTCL-8081	WATER	DONE	U				
WG1938134-3	LCS Duplicate	S	NYTCL-8081	WATER	DONE	U				
WG1938134-4	Matrix Spike	S	NYTCL-8081	WATER	DONE	U				
WG1938134-5	Matrix Spike Duplica	S	NYTCL-8081	WATER	DONE	U				

Comments:

WG1938134-3	WG1938134-2
WG1938134-4	L2434679-03
WG1938134-5	L2434679-03

ALPHA ANALYTICAL LABORATORIES, INC.

Alpha WORK GROUP REPORT (wk02)

Jun 27 2024, 01:10 pm

Work Group: WG1939408 for Department: 2 Organic Preparation

Created: 26-JUN-24 Due: Operator: FMM

Sample	Client ID	C	Product	Matrix	Stat	UA	HOLD	DUE	PR	Location
L2434640-30	FB_06192024	S	NYTCL-8081	WATER	DONE	U	0626	0626	S0	Amber-A.120
L2434679-01	MW-3A	S	NYTCL-8081	WATER	DONE	U	0626	0626	S0	Amber-A.120
L2434683-01	GW-1	C	NYTCL-8081	WATER	DONE	U	0626	0626	S0	Amber-A.120
L2434683-02	GW-2	C	NYTCL-8081	WATER	DONE	U	0626	0626	S0	Amber-A.120
L2434683-03	GW-3	C	NYTCL-8081	WATER	DONE	U	0626	0626	S0	Amber-A.120
L2434683-04	GW-4	C	NYTCL-8081	WATER	DONE	U	0626	0626	S0	Amber-A.120
L2435023-17	FB_06202024	S	NYTCL-8081	WATER	DONE	U	0627	0627	S0	Glass-A.25
L2435060-08	RISFB01_062024	S	NYTCL-8081	WATER	DONE	U	0627	0627	S0	Amber-A.120
WG1939408-1	Laboratory Method Bl	S	NYTCL-8081	WATER	DONE	U				
WG1939408-2	Laboratory Control S	S	NYTCL-8081	WATER	DONE	U				
WG1939408-3	LCS Duplicate	S	NYTCL-8081	WATER	DONE	U				

Comments:

WG1939408-3 WG1939408-2

ORGANIC ELN REPORT

Workgroup: WG1939408

Prep Method: EPA 3510C
Solvent Type: DCM
Surrogate Type: Pesticide/PCB
Spike Type: Pesticide
Spike Verify by: FMM
Lims Spikelot: PEST_LVI
Lot #: EI560
Lot #: PP11616aa,11/22/2024,2c,5,1
Lot #: PP11566-AG(10/09/24)

Additional Reagents/Stds

Na2SO4	23L0461008

Conc.Method: S-EVAP/N-EVAP
Solvent Type: Hexane
Lot #: EI650

Additional Reagents/Stds

Cleanup 1

Cleanup Method 1:
Cleanup Method 2:
Solvent Type:
Lot #:

Additional Reagents/Stds

Sample/ Type	Extraction: Extract Date	Analyst	Sample Vol ml	Ph	Surr Amt ml	Spike Amt ml	Concentration: Conc Date	Analyst	Final Vol ml	Conc Unit
L2434640-30 SAMP	06/26/24 04:45	Francis Mbro-Menyah	140	>5,<9	.25		06/26/24 08:37	Priscilla Anim	1	D / A / #1
L2434679-01 WATER	06/26/24 04:45	Francis Mbro-Menyah	140	>5,<9	.25		06/26/24 08:37	Priscilla Anim	1	D / A / #1
L2434683-01 SAMP	06/26/24 04:45	Francis Mbro-Menyah	140	>5,<9	.25		06/26/24 08:37	Priscilla Anim	1	D / A / #1
L2434683-02 SAMP	06/26/24 04:45	Francis Mbro-Menyah	140	>5,<9	.25		06/26/24 08:37	Priscilla Anim	1	D / A / #1
L2434683-03 SAMP	06/26/24 04:45	Francis Mbro-Menyah	140	>5,<9	.25		06/26/24 08:37	Priscilla Anim	1	D / A / #1
L2434683-04 SAMP	06/26/24 04:45	Francis Mbro-Menyah	140	>5,<9	.25		06/26/24 08:37	Priscilla Anim	1	D / A / #1

Reported: 27-JUN-24 01:10 PM

ORGANIC ELN REPORT

Workgroup: WG1939408

Sample/ Type	Extraction						Concentration			
	Extract Date	Analyst	Sample Vol **ml**	Ph	Surr Amt **ml**	Spike Amt **ml**	Conc Date	Analyst	Final Vol **ml**	Conc Unit
L2435023-17 SAMP	06/26/24 12:29	Michael Daring	140	>5,<9	.25		06/27/24 04:33	Rabbi Kyei-Baffour	1	D / A / #1
L2435060-08 SAMP	06/26/24 12:29	Michael Daring	140	>5,<9	.25		06/27/24 04:33	Rabbi Kyei-Baffour	1	D / A / #1
WG1939408-1 BLANK	06/26/24 04:45	Francis Mbro-Menyah	140	>5,<9	.25		06/26/24 08:37	Priscilla Anim	1	D / A / #1
WG1939408-2 LCS	06/26/24 04:45	Francis Mbro-Menyah	140	>5,<9	.25	.25	06/26/24 08:37	Priscilla Anim	1	D / A / #1
WG1939408-3 LCSD	06/26/24 04:45	Francis Mbro-Menyah	140	>5,<9	.25	.25	06/26/24 08:37	Priscilla Anim	1	D / A / #1

Reported: 27-JUN-24 01:10 PM

ORGANIC ELN REPORT

Workgroup: WG1938134

Prep Method: EPA 3510C
Solvent Type: DCM **Lot #:** EH560
Surrogate Type: Pesticide/PCB **Lot #:** PP11616aa,11/22/2024,2c,5,1
Spike Type: Pesticide **Lot #:** PP115566-AG, 10/09/2024
Spike Verify by: ZCH
Lims Spikelot: PEST_LVI

Additional Reagents/Stds

Na2SO4	23L0461008

Conc.Method: S-EVAP/N-EVAP
Solvent Type: Hexane
Lot #: EI572

Additional Reagents/Stds

Cleanup 1

Cleanup Method 1:
Cleanup Method 2:
Solvent Type: **Lot #:**

Additional Reagents/Stds

Sample/ Type	Extraction						Concentration			
	Extract Date	Analyst	Sample Vol ml	Ph	Surr Amt ml	Spike Amt ml	Conc Date	Analyst	Final Vol ml	Conc Unit
L2434451-01 SAMP	06/24/24 02:49	Francis Mbro-Menyah	140	>5, <9	.25		06/24/24 08:54	Tian-Long Chheou	1	H, K, 3
L2434679-02 WATER	06/23/24 11:15	Zachary Helin	140	>5, <9	.25		06/24/24 08:54	Tian-Long Chheou	1	H, K, 3
L2434679-03 WATER	06/23/24 11:15	Zachary Helin	140	>5, <9	.25		06/24/24 08:54	Tian-Long Chheou	1	H, K, 3
L2434679-04 WATER	06/23/24 11:15	Zachary Helin	140	>5, <9	.25		06/24/24 08:54	Tian-Long Chheou	1	H, K, 3
L2434679-05 WATER	06/23/24 11:15	Zachary Helin	140	>5, <9	.25		06/24/24 08:54	Tian-Long Chheou	1	H, K, 3
L2434679-06 WATER	06/23/24 11:15	Zachary Helin	140	>5, <9	.25		06/24/24 08:54	Tian-Long Chheou	1	H, K, 3

Reported: 27-JUN-24 01:10 PM

ORGANIC ELN REPORT

Workgroup: WG1938134

Sample/ Type	Extraction						Concentration			
	Extract Date	Analyst	Sample Vol **ml**	Ph	Surr Amt **ml**	Spike Amt **ml**	Conc Date	Analyst	Final Vol **ml**	Conc Unit
L2434679-07 WATER	06/23/24 11:15	Zachary Helin	140	>5, <9	.25		06/24/24 08:54	Tian-Long Chheou	1	H, K, 3
L2434679-08 WATER	06/23/24 11:15	Zachary Helin	140	>5, <9	.25		06/24/24 08:54	Tian-Long Chheou	1	H, K, 3
L2434679-09 WATER	06/23/24 11:15	Zachary Helin	140	>5, <9	.25		06/24/24 08:54	Tian-Long Chheou	1	H, K, 3
L2434679-10 WATER	06/23/24 11:15	Zachary Helin	140	>5, <9	.25		06/24/24 08:54	Tian-Long Chheou	1	H, K, 3
L2434679-11 WATER	06/23/24 11:15	Zachary Helin	140	>5, <9	.25		06/24/24 08:54	Tian-Long Chheou	1	H, K, 3
L2434679-12 WATER	06/23/24 11:15	Zachary Helin	140	>5, <9	.25		06/24/24 08:54	Tian-Long Chheou	1	H, K, 3
L2434679-14 WATER	06/23/24 11:15	Zachary Helin	140	>5, <9	.25		06/24/24 08:54	Tian-Long Chheou	1	H, K, 3
WG1938134-1 BLANK	06/23/24 11:15	Zachary Helin	140	>5, <9	.25		06/24/24 08:53	Tian-Long Chheou	1	H, K, 3

Reported: 27-JUN-24 01:10 PM

ORGANIC ELN REPORT

Workgroup: WG1938134

Sample/ Type	Extraction						Concentration			
	Extract Date	Analyst	Sample Vol **ml**	Ph	Surr Amt **ml**	Spike Amt **ml**	Conc Date	Analyst	Final Vol **ml**	Conc Unit
WG1938134-2 LCS	06/23/24 11:15	Zachary Helin	140	>5, <9	.25	.25	06/24/24 08:53	Tian-Long Chheou	1	H, K, 3
WG1938134-3 LCSD	06/23/24 11:15	Zachary Helin	140	>5, <9	.25	.25	06/24/24 08:54	Tian-Long Chheou	1	H, K, 3
WG1938134-4 MS	06/23/24 11:15	Zachary Helin	140	>5, <9	.25	.25	06/24/24 08:54	Tian-Long Chheou	1	H, K, 3
WG1938134-5 MSD	06/23/24 11:15	Zachary Helin	140	>5, <9	.25	.25	06/24/24 08:54	Tian-Long Chheou	1	H, K, 3

Metals

Inorganic Data
(ICPMS Analysis)

Form 1
METALS

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Lab ID	: L2434679-01	**Date Collected**	: 06/19/24 09:30
Client ID	: MW-3A	**Date Received**	: 06/19/24
Sample Location	: MANORVILLE, NY	**Date Analyzed**	: 06/26/24 15:19
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,6020B	**Analyst**	: EJF
Lab File ID	: WG1939385.csv	**Instrument ID**	: ICPMSQ
Sample Amount	: 50ml	**%Solids**	: N/A
Digestion Method	: EPA 3005A	**Date Digested**	: 06/26/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7429-90-5	Aluminum, Dissolved	0.0122	0.0100	0.00327	
7440-36-0	Antimony, Dissolved	ND	0.00400	0.00042	U
7440-38-2	Arsenic, Dissolved	ND	0.00050	0.00016	U
7440-39-3	Barium, Dissolved	0.01912	0.00050	0.00017	
7440-41-7	Beryllium, Dissolved	ND	0.00050	0.00010	U
7440-43-9	Cadmium, Dissolved	ND	0.00020	0.00005	U
7440-70-2	Calcium, Dissolved	4.17	0.100	0.0394	
7440-47-3	Chromium, Dissolved	0.00037	0.00100	0.00017	J
7440-48-4	Cobalt, Dissolved	ND	0.00050	0.00016	U
7440-50-8	Copper, Dissolved	ND	0.00100	0.00038	U
7439-89-6	Iron, Dissolved	ND	0.0500	0.0191	U
7439-92-1	Lead, Dissolved	ND	0.00100	0.00034	U
7439-95-4	Magnesium, Dissolved	1.16	0.0700	0.0242	
7439-96-5	Manganese, Dissolved	0.01115	0.00100	0.00044	
7440-02-0	Nickel, Dissolved	ND	0.00200	0.00055	U
7440-09-7	Potassium, Dissolved	1.49	0.100	0.0309	
7782-49-2	Selenium, Dissolved	ND	0.00500	0.00173	U
7440-22-4	Silver, Dissolved	ND	0.00040	0.00016	U
7440-23-5	Sodium, Dissolved	5.83	0.100	0.0293	
7440-28-0	Thallium, Dissolved	ND	0.00100	0.00014	U
7440-62-2	Vanadium, Dissolved	ND	0.00500	0.00157	U
7440-66-6	Zinc, Dissolved	ND	0.01000	0.00341	U

Form 1
METALS

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Lab ID	: L2434679-02	**Date Collected**	: 06/18/24 16:35
Client ID	: MW-6A	**Date Received**	: 06/19/24
Sample Location	: MANORVILLE, NY	**Date Analyzed**	: 06/26/24 15:24
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,6020B	**Analyst**	: EJF
Lab File ID	: WG1939385.csv	**Instrument ID**	: ICPMSQ
Sample Amount	: 50ml	**%Solids**	: N/A
Digestion Method	: EPA 3005A	**Date Digested**	: 06/26/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7429-90-5	Aluminum, Dissolved	ND	0.0100	0.00327	U
7440-36-0	Antimony, Dissolved	ND	0.00400	0.00042	U
7440-38-2	Arsenic, Dissolved	ND	0.00050	0.00016	U
7440-39-3	Barium, Dissolved	0.01716	0.00050	0.00017	
7440-41-7	Beryllium, Dissolved	ND	0.00050	0.00010	U
7440-43-9	Cadmium, Dissolved	ND	0.00020	0.00005	U
7440-70-2	Calcium, Dissolved	24.2	0.100	0.0394	
7440-47-3	Chromium, Dissolved	0.00046	0.00100	0.00017	J
7440-48-4	Cobalt, Dissolved	0.00046	0.00050	0.00016	J
7440-50-8	Copper, Dissolved	ND	0.00100	0.00038	U
7439-89-6	Iron, Dissolved	ND	0.0500	0.0191	U
7439-92-1	Lead, Dissolved	ND	0.00100	0.00034	U
7439-95-4	Magnesium, Dissolved	5.56	0.0700	0.0242	
7439-96-5	Manganese, Dissolved	4.134	0.00100	0.00044	
7440-02-0	Nickel, Dissolved	ND	0.00200	0.00055	U
7440-09-7	Potassium, Dissolved	2.47	0.100	0.0309	
7782-49-2	Selenium, Dissolved	ND	0.00500	0.00173	U
7440-22-4	Silver, Dissolved	ND	0.00040	0.00016	U
7440-23-5	Sodium, Dissolved	10.9	0.100	0.0293	
7440-28-0	Thallium, Dissolved	ND	0.00100	0.00014	U
7440-62-2	Vanadium, Dissolved	ND	0.00500	0.00157	U
7440-66-6	Zinc, Dissolved	ND	0.01000	0.00341	U

Form 1
METALS

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Lab ID	: L2434679-03	**Date Collected**	: 06/18/24 14:50
Client ID	: MW-6B	**Date Received**	: 06/19/24
Sample Location	: MANORVILLE, NY	**Date Analyzed**	: 06/26/24 16:11
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,6020B	**Analyst**	: EJF
Lab File ID	: WG1939385.csv	**Instrument ID**	: ICPMSQ
Sample Amount	: 50ml	**%Solids**	: N/A
Digestion Method	: EPA 3005A	**Date Digested**	: 06/26/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7429-90-5	Aluminum, Dissolved	ND	0.0100	0.00327	U
7440-36-0	Antimony, Dissolved	ND	0.00400	0.00042	U
7440-38-2	Arsenic, Dissolved	ND	0.00050	0.00016	U
7440-39-3	Barium, Dissolved	0.05090	0.00050	0.00017	
7440-41-7	Beryllium, Dissolved	ND	0.00050	0.00010	U
7440-43-9	Cadmium, Dissolved	ND	0.00020	0.00005	U
7440-70-2	Calcium, Dissolved	45.4	0.100	0.0394	
7440-47-3	Chromium, Dissolved	0.00027	0.00100	0.00017	J
7440-48-4	Cobalt, Dissolved	ND	0.00050	0.00016	U
7440-50-8	Copper, Dissolved	0.00043	0.00100	0.00038	J
7439-89-6	Iron, Dissolved	ND	0.0500	0.0191	U
7439-92-1	Lead, Dissolved	ND	0.00100	0.00034	U
7439-95-4	Magnesium, Dissolved	10.3	0.0700	0.0242	
7439-96-5	Manganese, Dissolved	0.06653	0.00100	0.00044	
7440-02-0	Nickel, Dissolved	ND	0.00200	0.00055	U
7440-09-7	Potassium, Dissolved	4.11	0.100	0.0309	
7782-49-2	Selenium, Dissolved	ND	0.00500	0.00173	U
7440-22-4	Silver, Dissolved	ND	0.00040	0.00016	U
7440-23-5	Sodium, Dissolved	12.0	0.100	0.0293	
7440-28-0	Thallium, Dissolved	ND	0.00100	0.00014	U
7440-62-2	Vanadium, Dissolved	ND	0.00500	0.00157	U
7440-66-6	Zinc, Dissolved	ND	0.01000	0.00341	U

Form 1
METALS

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Lab ID	: L2434679-04	**Date Collected**	: 06/18/24 14:49
Client ID	: MW-6C	**Date Received**	: 06/19/24
Sample Location	: MANORVILLE, NY	**Date Analyzed**	: 06/26/24 15:47
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,6020B	**Analyst**	: EJF
Lab File ID	: WG1939385.csv	**Instrument ID**	: ICPMSQ
Sample Amount	: 50ml	**%Solids**	: N/A
Digestion Method	: EPA 3005A	**Date Digested**	: 06/26/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7429-90-5	Aluminum, Dissolved	ND	0.0100	0.00327	U
7440-36-0	Antimony, Dissolved	ND	0.00400	0.00042	U
7440-38-2	Arsenic, Dissolved	ND	0.00050	0.00016	U
7440-39-3	Barium, Dissolved	0.04180	0.00050	0.00017	
7440-41-7	Beryllium, Dissolved	ND	0.00050	0.00010	U
7440-43-9	Cadmium, Dissolved	ND	0.00020	0.00005	U
7440-70-2	Calcium, Dissolved	70.4	0.100	0.0394	
7440-47-3	Chromium, Dissolved	0.00029	0.00100	0.00017	J
7440-48-4	Cobalt, Dissolved	ND	0.00050	0.00016	U
7440-50-8	Copper, Dissolved	0.00066	0.00100	0.00038	J
7439-89-6	Iron, Dissolved	ND	0.0500	0.0191	U
7439-92-1	Lead, Dissolved	ND	0.00100	0.00034	U
7439-95-4	Magnesium, Dissolved	14.7	0.0700	0.0242	
7439-96-5	Manganese, Dissolved	0.00458	0.00100	0.00044	
7440-02-0	Nickel, Dissolved	ND	0.00200	0.00055	U
7440-09-7	Potassium, Dissolved	4.69	0.100	0.0309	
7782-49-2	Selenium, Dissolved	ND	0.00500	0.00173	U
7440-22-4	Silver, Dissolved	ND	0.00040	0.00016	U
7440-23-5	Sodium, Dissolved	12.2	0.100	0.0293	
7440-28-0	Thallium, Dissolved	ND	0.00100	0.00014	U
7440-62-2	Vanadium, Dissolved	ND	0.00500	0.00157	U
7440-66-6	Zinc, Dissolved	ND	0.01000	0.00341	U

Form 1
METALS

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Lab ID	: L2434679-05	**Date Collected**	: 06/18/24 10:15
Client ID	: MW-7A	**Date Received**	: 06/19/24
Sample Location	: MANORVILLE, NY	**Date Analyzed**	: 06/26/24 15:52
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,6020B	**Analyst**	: EJF
Lab File ID	: WG1939385.csv	**Instrument ID**	: ICPMSQ
Sample Amount	: 50ml	**%Solids**	: N/A
Digestion Method	: EPA 3005A	**Date Digested**	: 06/26/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7429-90-5	Aluminum, Dissolved	ND	0.0100	0.00327	U
7440-36-0	Antimony, Dissolved	ND	0.00400	0.00042	U
7440-38-2	Arsenic, Dissolved	ND	0.00050	0.00016	U
7440-39-3	Barium, Dissolved	0.01802	0.00050	0.00017	
7440-41-7	Beryllium, Dissolved	ND	0.00050	0.00010	U
7440-43-9	Cadmium, Dissolved	ND	0.00020	0.00005	U
7440-70-2	Calcium, Dissolved	15.2	0.100	0.0394	
7440-47-3	Chromium, Dissolved	0.00044	0.00100	0.00017	J
7440-48-4	Cobalt, Dissolved	ND	0.00050	0.00016	U
7440-50-8	Copper, Dissolved	ND	0.00100	0.00038	U
7439-89-6	Iron, Dissolved	ND	0.0500	0.0191	U
7439-92-1	Lead, Dissolved	ND	0.00100	0.00034	U
7439-95-4	Magnesium, Dissolved	5.26	0.0700	0.0242	
7439-96-5	Manganese, Dissolved	0.00832	0.00100	0.00044	
7440-02-0	Nickel, Dissolved	ND	0.00200	0.00055	U
7440-09-7	Potassium, Dissolved	1.50	0.100	0.0309	
7782-49-2	Selenium, Dissolved	ND	0.00500	0.00173	U
7440-22-4	Silver, Dissolved	ND	0.00040	0.00016	U
7440-23-5	Sodium, Dissolved	9.10	0.100	0.0293	
7440-28-0	Thallium, Dissolved	ND	0.00100	0.00014	U
7440-62-2	Vanadium, Dissolved	ND	0.00500	0.00157	U
7440-66-6	Zinc, Dissolved	0.00830	0.01000	0.00341	J

Form 1
METALS

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Lab ID	: L2434679-06	**Date Collected**	: 06/18/24 12:05
Client ID	: MW-7B	**Date Received**	: 06/19/24
Sample Location	: MANORVILLE, NY	**Date Analyzed**	: 06/26/24 15:57
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,6020B	**Analyst**	: EJF
Lab File ID	: WG1939385.csv	**Instrument ID**	: ICPMSQ
Sample Amount	: 50ml	**%Solids**	: N/A
Digestion Method	: EPA 3005A	**Date Digested**	: 06/26/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7429-90-5	Aluminum, Dissolved	ND	0.0100	0.00327	U
7440-36-0	Antimony, Dissolved	ND	0.00400	0.00042	U
7440-38-2	Arsenic, Dissolved	ND	0.00050	0.00016	U
7440-39-3	Barium, Dissolved	0.01770	0.00050	0.00017	
7440-41-7	Beryllium, Dissolved	ND	0.00050	0.00010	U
7440-43-9	Cadmium, Dissolved	ND	0.00020	0.00005	U
7440-70-2	Calcium, Dissolved	19.0	0.100	0.0394	
7440-47-3	Chromium, Dissolved	ND	0.00100	0.00017	U
7440-48-4	Cobalt, Dissolved	ND	0.00050	0.00016	U
7440-50-8	Copper, Dissolved	ND	0.00100	0.00038	U
7439-89-6	Iron, Dissolved	ND	0.0500	0.0191	U
7439-92-1	Lead, Dissolved	ND	0.00100	0.00034	U
7439-95-4	Magnesium, Dissolved	5.39	0.0700	0.0242	
7439-96-5	Manganese, Dissolved	0.00361	0.00100	0.00044	
7440-02-0	Nickel, Dissolved	ND	0.00200	0.00055	U
7440-09-7	Potassium, Dissolved	2.09	0.100	0.0309	
7782-49-2	Selenium, Dissolved	ND	0.00500	0.00173	U
7440-22-4	Silver, Dissolved	ND	0.00040	0.00016	U
7440-23-5	Sodium, Dissolved	11.3	0.100	0.0293	
7440-28-0	Thallium, Dissolved	ND	0.00100	0.00014	U
7440-62-2	Vanadium, Dissolved	ND	0.00500	0.00157	U
7440-66-6	Zinc, Dissolved	ND	0.01000	0.00341	U

Form 1
METALS

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Lab ID	: L2434679-07	**Date Collected**	: 06/18/24 12:12
Client ID	: MW-7C	**Date Received**	: 06/19/24
Sample Location	: MANORVILLE, NY	**Date Analyzed**	: 06/26/24 16:01
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,6020B	**Analyst**	: EJF
Lab File ID	: WG1939385.csv	**Instrument ID**	: ICPMSQ
Sample Amount	: 50ml	**%Solids**	: N/A
Digestion Method	: EPA 3005A	**Date Digested**	: 06/26/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7429-90-5	Aluminum, Dissolved	ND	0.0100	0.00327	U
7440-36-0	Antimony, Dissolved	ND	0.00400	0.00042	U
7440-38-2	Arsenic, Dissolved	ND	0.00050	0.00016	U
7440-39-3	Barium, Dissolved	0.02757	0.00050	0.00017	
7440-41-7	Beryllium, Dissolved	ND	0.00050	0.00010	U
7440-43-9	Cadmium, Dissolved	ND	0.00020	0.00005	U
7440-70-2	Calcium, Dissolved	14.6	0.100	0.0394	
7440-47-3	Chromium, Dissolved	0.00070	0.00100	0.00017	J
7440-48-4	Cobalt, Dissolved	ND	0.00050	0.00016	U
7440-50-8	Copper, Dissolved	ND	0.00100	0.00038	U
7439-89-6	Iron, Dissolved	ND	0.0500	0.0191	U
7439-92-1	Lead, Dissolved	ND	0.00100	0.00034	U
7439-95-4	Magnesium, Dissolved	6.32	0.0700	0.0242	
7439-96-5	Manganese, Dissolved	0.00078	0.00100	0.00044	J
7440-02-0	Nickel, Dissolved	ND	0.00200	0.00055	U
7440-09-7	Potassium, Dissolved	2.11	0.100	0.0309	
7782-49-2	Selenium, Dissolved	ND	0.00500	0.00173	U
7440-22-4	Silver, Dissolved	ND	0.00040	0.00016	U
7440-23-5	Sodium, Dissolved	11.6	0.100	0.0293	
7440-28-0	Thallium, Dissolved	ND	0.00100	0.00014	U
7440-62-2	Vanadium, Dissolved	ND	0.00500	0.00157	U
7440-66-6	Zinc, Dissolved	ND	0.01000	0.00341	U

Form 1
METALS

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Lab ID	: L2434679-08	**Date Collected**	: 06/18/24 16:47
Client ID	: MW-8A	**Date Received**	: 06/19/24
Sample Location	: MANORVILLE, NY	**Date Analyzed**	: 06/26/24 16:06
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,6020B	**Analyst**	: EJF
Lab File ID	: WG1939385.csv	**Instrument ID**	: ICPMSQ
Sample Amount	: 50ml	**%Solids**	: N/A
Digestion Method	: EPA 3005A	**Date Digested**	: 06/26/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7429-90-5	Aluminum, Dissolved	ND	0.0100	0.00327	U
7440-36-0	Antimony, Dissolved	ND	0.00400	0.00042	U
7440-38-2	Arsenic, Dissolved	ND	0.00050	0.00016	U
7440-39-3	Barium, Dissolved	0.02349	0.00050	0.00017	
7440-41-7	Beryllium, Dissolved	ND	0.00050	0.00010	U
7440-43-9	Cadmium, Dissolved	ND	0.00020	0.00005	U
7440-70-2	Calcium, Dissolved	15.6	0.100	0.0394	
7440-47-3	Chromium, Dissolved	0.00019	0.00100	0.00017	J
7440-48-4	Cobalt, Dissolved	ND	0.00050	0.00016	U
7440-50-8	Copper, Dissolved	ND	0.00100	0.00038	U
7439-89-6	Iron, Dissolved	ND	0.0500	0.0191	U
7439-92-1	Lead, Dissolved	ND	0.00100	0.00034	U
7439-95-4	Magnesium, Dissolved	4.84	0.0700	0.0242	
7439-96-5	Manganese, Dissolved	0.00102	0.00100	0.00044	
7440-02-0	Nickel, Dissolved	0.00077	0.00200	0.00055	J
7440-09-7	Potassium, Dissolved	1.68	0.100	0.0309	
7782-49-2	Selenium, Dissolved	ND	0.00500	0.00173	U
7440-22-4	Silver, Dissolved	ND	0.00040	0.00016	U
7440-23-5	Sodium, Dissolved	7.20	0.100	0.0293	
7440-28-0	Thallium, Dissolved	ND	0.00100	0.00014	U
7440-62-2	Vanadium, Dissolved	ND	0.00500	0.00157	U
7440-66-6	Zinc, Dissolved	ND	0.01000	0.00341	U

Form 1
METALS

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Lab ID	: L2434679-09	**Date Collected**	: 06/18/24 18:25
Client ID	: MW-8B	**Date Received**	: 06/19/24
Sample Location	: MANORVILLE, NY	**Date Analyzed**	: 06/26/24 17:09
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,6020B	**Analyst**	: EJF
Lab File ID	: WG1939385.csv	**Instrument ID**	: ICPMSQ
Sample Amount	: 50ml	**%Solids**	: N/A
Digestion Method	: EPA 3005A	**Date Digested**	: 06/26/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7429-90-5	Aluminum, Dissolved	ND	0.0100	0.00327	U
7440-36-0	Antimony, Dissolved	ND	0.00400	0.00042	U
7440-38-2	Arsenic, Dissolved	ND	0.00050	0.00016	U
7440-39-3	Barium, Dissolved	0.03120	0.00050	0.00017	
7440-41-7	Beryllium, Dissolved	ND	0.00050	0.00010	U
7440-43-9	Cadmium, Dissolved	ND	0.00020	0.00005	U
7440-70-2	Calcium, Dissolved	34.5	0.100	0.0394	
7440-47-3	Chromium, Dissolved	0.00045	0.00100	0.00017	J
7440-48-4	Cobalt, Dissolved	ND	0.00050	0.00016	U
7440-50-8	Copper, Dissolved	ND	0.00100	0.00038	U
7439-89-6	Iron, Dissolved	0.0289	0.0500	0.0191	J
7439-92-1	Lead, Dissolved	ND	0.00100	0.00034	U
7439-95-4	Magnesium, Dissolved	6.32	0.0700	0.0242	
7439-96-5	Manganese, Dissolved	0.00574	0.00100	0.00044	
7440-02-0	Nickel, Dissolved	0.00128	0.00200	0.00055	J
7440-09-7	Potassium, Dissolved	2.75	0.100	0.0309	
7782-49-2	Selenium, Dissolved	ND	0.00500	0.00173	U
7440-22-4	Silver, Dissolved	ND	0.00040	0.00016	U
7440-23-5	Sodium, Dissolved	11.2	0.100	0.0293	
7440-28-0	Thallium, Dissolved	ND	0.00100	0.00014	U
7440-62-2	Vanadium, Dissolved	ND	0.00500	0.00157	U
7440-66-6	Zinc, Dissolved	ND	0.01000	0.00341	U

Form 1
METALS

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Lab ID	: L2434679-10	**Date Collected**	: 06/19/24 11:00
Client ID	: MW-9B	**Date Received**	: 06/19/24
Sample Location	: MANORVILLE, NY	**Date Analyzed**	: 06/26/24 17:14
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,6020B	**Analyst**	: EJF
Lab File ID	: WG1939385.csv	**Instrument ID**	: ICPMSQ
Sample Amount	: 50ml	**%Solids**	: N/A
Digestion Method	: EPA 3005A	**Date Digested**	: 06/26/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7429-90-5	Aluminum, Dissolved	0.00496	0.0100	0.00327	J
7440-36-0	Antimony, Dissolved	ND	0.00400	0.00042	U
7440-38-2	Arsenic, Dissolved	ND	0.00050	0.00016	U
7440-39-3	Barium, Dissolved	0.04571	0.00050	0.00017	
7440-41-7	Beryllium, Dissolved	ND	0.00050	0.00010	U
7440-43-9	Cadmium, Dissolved	ND	0.00020	0.00005	U
7440-70-2	Calcium, Dissolved	14.5	0.100	0.0394	
7440-47-3	Chromium, Dissolved	0.00122	0.00100	0.00017	
7440-48-4	Cobalt, Dissolved	ND	0.00050	0.00016	U
7440-50-8	Copper, Dissolved	ND	0.00100	0.00038	U
7439-89-6	Iron, Dissolved	0.109	0.0500	0.0191	
7439-92-1	Lead, Dissolved	ND	0.00100	0.00034	U
7439-95-4	Magnesium, Dissolved	2.24	0.0700	0.0242	
7439-96-5	Manganese, Dissolved	0.00564	0.00100	0.00044	
7440-02-0	Nickel, Dissolved	0.00348	0.00200	0.00055	
7440-09-7	Potassium, Dissolved	2.07	0.100	0.0309	
7782-49-2	Selenium, Dissolved	ND	0.00500	0.00173	U
7440-22-4	Silver, Dissolved	ND	0.00040	0.00016	U
7440-23-5	Sodium, Dissolved	7.03	0.100	0.0293	
7440-28-0	Thallium, Dissolved	ND	0.00100	0.00014	U
7440-62-2	Vanadium, Dissolved	ND	0.00500	0.00157	U
7440-66-6	Zinc, Dissolved	ND	0.01000	0.00341	U

Form 1
METALS

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Lab ID	: L2434679-11	**Date Collected**	: 06/18/24 00:00
Client ID	: DUP	**Date Received**	: 06/19/24
Sample Location	: MANORVILLE, NY	**Date Analyzed**	: 06/26/24 17:18
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,6020B	**Analyst**	: EJF
Lab File ID	: WG1939385.csv	**Instrument ID**	: ICPMSQ
Sample Amount	: 50ml	**%Solids**	: N/A
Digestion Method	: EPA 3005A	**Date Digested**	: 06/26/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7429-90-5	Aluminum, Dissolved	ND	0.0100	0.00327	U
7440-36-0	Antimony, Dissolved	ND	0.00400	0.00042	U
7440-38-2	Arsenic, Dissolved	ND	0.00050	0.00016	U
7440-39-3	Barium, Dissolved	0.02355	0.00050	0.00017	
7440-41-7	Beryllium, Dissolved	ND	0.00050	0.00010	U
7440-43-9	Cadmium, Dissolved	ND	0.00020	0.00005	U
7440-70-2	Calcium, Dissolved	16.2	0.100	0.0394	
7440-47-3	Chromium, Dissolved	0.00029	0.00100	0.00017	J
7440-48-4	Cobalt, Dissolved	ND	0.00050	0.00016	U
7440-50-8	Copper, Dissolved	ND	0.00100	0.00038	U
7439-89-6	Iron, Dissolved	ND	0.0500	0.0191	U
7439-92-1	Lead, Dissolved	ND	0.00100	0.00034	U
7439-95-4	Magnesium, Dissolved	5.03	0.0700	0.0242	
7439-96-5	Manganese, Dissolved	0.00101	0.00100	0.00044	
7440-02-0	Nickel, Dissolved	0.00084	0.00200	0.00055	J
7440-09-7	Potassium, Dissolved	1.64	0.100	0.0309	
7782-49-2	Selenium, Dissolved	ND	0.00500	0.00173	U
7440-22-4	Silver, Dissolved	ND	0.00040	0.00016	U
7440-23-5	Sodium, Dissolved	7.41	0.100	0.0293	
7440-28-0	Thallium, Dissolved	ND	0.00100	0.00014	U
7440-62-2	Vanadium, Dissolved	ND	0.00500	0.00157	U
7440-66-6	Zinc, Dissolved	ND	0.01000	0.00341	U

Form 1
METALS

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Lab ID	: L2434679-12	**Date Collected**	: 06/18/24 19:00
Client ID	: EB	**Date Received**	: 06/19/24
Sample Location	: MANORVILLE, NY	**Date Analyzed**	: 06/26/24 17:23
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,6020B	**Analyst**	: EJF
Lab File ID	: WG1939385.csv	**Instrument ID**	: ICPMSQ
Sample Amount	: 50ml	**%Solids**	: N/A
Digestion Method	: EPA 3005A	**Date Digested**	: 06/26/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7429-90-5	Aluminum, Dissolved	ND	0.0100	0.00327	U
7440-36-0	Antimony, Dissolved	ND	0.00400	0.00042	U
7440-38-2	Arsenic, Dissolved	ND	0.00050	0.00016	U
7440-39-3	Barium, Dissolved	ND	0.00050	0.00017	U
7440-41-7	Beryllium, Dissolved	ND	0.00050	0.00010	U
7440-43-9	Cadmium, Dissolved	ND	0.00020	0.00005	U
7440-70-2	Calcium, Dissolved	0.0481	0.100	0.0394	J
7440-47-3	Chromium, Dissolved	ND	0.00100	0.00017	U
7440-48-4	Cobalt, Dissolved	ND	0.00050	0.00016	U
7440-50-8	Copper, Dissolved	ND	0.00100	0.00038	U
7439-89-6	Iron, Dissolved	ND	0.0500	0.0191	U
7439-92-1	Lead, Dissolved	ND	0.00100	0.00034	U
7439-95-4	Magnesium, Dissolved	ND	0.0700	0.0242	U
7439-96-5	Manganese, Dissolved	ND	0.00100	0.00044	U
7440-02-0	Nickel, Dissolved	ND	0.00200	0.00055	U
7440-09-7	Potassium, Dissolved	ND	0.100	0.0309	U
7782-49-2	Selenium, Dissolved	ND	0.00500	0.00173	U
7440-22-4	Silver, Dissolved	ND	0.00040	0.00016	U
7440-23-5	Sodium, Dissolved	ND	0.100	0.0293	U
7440-28-0	Thallium, Dissolved	ND	0.00100	0.00014	U
7440-62-2	Vanadium, Dissolved	ND	0.00500	0.00157	U
7440-66-6	Zinc, Dissolved	ND	0.01000	0.00341	U

Form 1
METALS

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Lab ID	: L2434679-14	**Date Collected**	: 06/18/24 18:07
Client ID	: MW-8B2	**Date Received**	: 06/19/24
Sample Location	: MANORVILLE, NY	**Date Analyzed**	: 06/26/24 17:28
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,6020B	**Analyst**	: EJF
Lab File ID	: WG1939385.csv	**Instrument ID**	: ICPMSQ
Sample Amount	: 50ml	**%Solids**	: N/A
Digestion Method	: EPA 3005A	**Date Digested**	: 06/26/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7429-90-5	Aluminum, Dissolved	ND	0.0100	0.00327	U
7440-36-0	Antimony, Dissolved	ND	0.00400	0.00042	U
7440-38-2	Arsenic, Dissolved	ND	0.00050	0.00016	U
7440-39-3	Barium, Dissolved	0.02246	0.00050	0.00017	
7440-41-7	Beryllium, Dissolved	ND	0.00050	0.00010	U
7440-43-9	Cadmium, Dissolved	ND	0.00020	0.00005	U
7440-70-2	Calcium, Dissolved	30.0	0.100	0.0394	
7440-47-3	Chromium, Dissolved	0.00051	0.00100	0.00017	J
7440-48-4	Cobalt, Dissolved	ND	0.00050	0.00016	U
7440-50-8	Copper, Dissolved	ND	0.00100	0.00038	U
7439-89-6	Iron, Dissolved	0.0194	0.0500	0.0191	J
7439-92-1	Lead, Dissolved	ND	0.00100	0.00034	U
7439-95-4	Magnesium, Dissolved	5.93	0.0700	0.0242	
7439-96-5	Manganese, Dissolved	0.00197	0.00100	0.00044	
7440-02-0	Nickel, Dissolved	0.00128	0.00200	0.00055	J
7440-09-7	Potassium, Dissolved	2.79	0.100	0.0309	
7782-49-2	Selenium, Dissolved	ND	0.00500	0.00173	U
7440-22-4	Silver, Dissolved	ND	0.00040	0.00016	U
7440-23-5	Sodium, Dissolved	11.7	0.100	0.0293	
7440-28-0	Thallium, Dissolved	ND	0.00100	0.00014	U
7440-62-2	Vanadium, Dissolved	ND	0.00500	0.00157	U
7440-66-6	Zinc, Dissolved	ND	0.01000	0.00341	U

Form 1
METALS

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Lab ID	: WG1939202-1	**Date Collected**	: NA
Client ID	: WG1939202-1BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 06/26/24 14:40
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,6020B	**Analyst**	: EJF
Lab File ID	: WG1939385.csv	**Instrument ID**	: ICPMSQ
Sample Amount	: 50ml	**%Solids**	: N/A
Digestion Method	: EPA 3005A	**Date Digested**	: 06/26/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7429-90-5	Aluminum, Dissolved	ND	0.0100	0.00327	U
7440-36-0	Antimony, Dissolved	ND	0.00400	0.00042	U
7440-38-2	Arsenic, Dissolved	ND	0.00050	0.00016	U
7440-39-3	Barium, Dissolved	ND	0.00050	0.00017	U
7440-41-7	Beryllium, Dissolved	ND	0.00050	0.00010	U
7440-43-9	Cadmium, Dissolved	ND	0.00020	0.00005	U
7440-70-2	Calcium, Dissolved	ND	0.100	0.0394	U
7440-47-3	Chromium, Dissolved	ND	0.00100	0.00017	U
7440-48-4	Cobalt, Dissolved	ND	0.00050	0.00016	U
7440-50-8	Copper, Dissolved	ND	0.00100	0.00038	U
7439-89-6	Iron, Dissolved	ND	0.0500	0.0191	U
7439-92-1	Lead, Dissolved	ND	0.00100	0.00034	U
7439-95-4	Magnesium, Dissolved	ND	0.0700	0.0242	U
7439-96-5	Manganese, Dissolved	ND	0.00100	0.00044	U
7440-02-0	Nickel, Dissolved	ND	0.00200	0.00055	U
7440-09-7	Potassium, Dissolved	ND	0.100	0.0309	U
7782-49-2	Selenium, Dissolved	ND	0.00500	0.00173	U
7440-22-4	Silver, Dissolved	ND	0.00040	0.00016	U
7440-23-5	Sodium, Dissolved	ND	0.100	0.0293	U
7440-28-0	Thallium, Dissolved	ND	0.00100	0.00014	U
7440-62-2	Vanadium, Dissolved	ND	0.00500	0.00157	U
7440-66-6	Zinc, Dissolved	ND	0.01000	0.00341	U

Form 1
METALS

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Lab ID	: L2434679-01	**Date Collected**	: 06/19/24 09:30
Client ID	: MW-3A	**Date Received**	: 06/19/24
Sample Location	: MANORVILLE, NY	**Date Analyzed**	: 06/26/24 12:50
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,6020B	**Analyst**	: EJF
Lab File ID	: WG1939385.csv	**Instrument ID**	: ICPMSQ
Sample Amount	: 50ml	**%Solids**	: N/A
Digestion Method	: EPA 3005A	**Date Digested**	: 06/25/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7429-90-5	Aluminum, Total	0.0154	0.0100	0.00327	
7440-36-0	Antimony, Total	0.00124	0.00400	0.00042	J
7440-38-2	Arsenic, Total	ND	0.00050	0.00016	U
7440-39-3	Barium, Total	0.01812	0.00050	0.00017	
7440-41-7	Beryllium, Total	ND	0.00050	0.00010	U
7440-43-9	Cadmium, Total	ND	0.00020	0.00005	U
7440-70-2	Calcium, Total	4.16	0.100	0.0394	
7440-47-3	Chromium, Total	0.00034	0.00100	0.00017	J
7440-48-4	Cobalt, Total	ND	0.00050	0.00016	U
7440-50-8	Copper, Total	ND	0.00100	0.00038	U
7439-89-6	Iron, Total	ND	0.0500	0.0191	U
7439-92-1	Lead, Total	ND	0.00100	0.00034	U
7439-95-4	Magnesium, Total	1.19	0.0700	0.0242	
7439-96-5	Manganese, Total	0.01211	0.00100	0.00044	
7440-02-0	Nickel, Total	ND	0.00200	0.00055	U
7440-09-7	Potassium, Total	1.55	0.100	0.0309	
7782-49-2	Selenium, Total	ND	0.00500	0.00173	U
7440-22-4	Silver, Total	ND	0.00040	0.00016	U
7440-23-5	Sodium, Total	5.91	0.100	0.0293	
7440-28-0	Thallium, Total	ND	0.00100	0.00014	U
7440-62-2	Vanadium, Total	ND	0.00500	0.00157	U
7440-66-6	Zinc, Total	ND	0.01000	0.00341	U

Form 1
METALS

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Lab ID	: L2434679-02	**Date Collected**	: 06/18/24 16:35
Client ID	: MW-6A	**Date Received**	: 06/19/24
Sample Location	: MANORVILLE, NY	**Date Analyzed**	: 06/26/24 12:55
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,6020B	**Analyst**	: EJF
Lab File ID	: WG1939385.csv	**Instrument ID**	: ICPMSQ
Sample Amount	: 50ml	**%Solids**	: N/A
Digestion Method	: EPA 3005A	**Date Digested**	: 06/25/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7429-90-5	Aluminum, Total	0.148	0.0100	0.00327	
7440-36-0	Antimony, Total	ND	0.00400	0.00042	U
7440-38-2	Arsenic, Total	ND	0.00050	0.00016	U
7440-39-3	Barium, Total	0.01851	0.00050	0.00017	
7440-41-7	Beryllium, Total	ND	0.00050	0.00010	U
7440-43-9	Cadmium, Total	0.00008	0.00020	0.00005	J
7440-70-2	Calcium, Total	26.0	0.100	0.0394	
7440-47-3	Chromium, Total	0.00353	0.00100	0.00017	
7440-48-4	Cobalt, Total	0.00069	0.00050	0.00016	
7440-50-8	Copper, Total	0.00175	0.00100	0.00038	
7439-89-6	Iron, Total	0.277	0.0500	0.0191	
7439-92-1	Lead, Total	ND	0.00100	0.00034	U
7439-95-4	Magnesium, Total	5.78	0.0700	0.0242	
7439-96-5	Manganese, Total	4.462	0.00100	0.00044	
7440-02-0	Nickel, Total	0.00211	0.00200	0.00055	
7440-09-7	Potassium, Total	2.69	0.100	0.0309	
7782-49-2	Selenium, Total	ND	0.00500	0.00173	U
7440-22-4	Silver, Total	ND	0.00040	0.00016	U
7440-23-5	Sodium, Total	11.4	0.100	0.0293	
7440-28-0	Thallium, Total	ND	0.00100	0.00014	U
7440-62-2	Vanadium, Total	ND	0.00500	0.00157	U
7440-66-6	Zinc, Total	ND	0.01000	0.00341	U

Form 1
METALS

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Lab ID	: L2434679-03	**Date Collected**	: 06/18/24 14:50
Client ID	: MW-6B	**Date Received**	: 06/19/24
Sample Location	: MANORVILLE, NY	**Date Analyzed**	: 06/26/24 13:41
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,6020B	**Analyst**	: EJF
Lab File ID	: WG1939385.csv	**Instrument ID**	: ICPMSQ
Sample Amount	: 50ml	**%Solids**	: N/A
Digestion Method	: EPA 3005A	**Date Digested**	: 06/25/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7429-90-5	Aluminum, Total	0.00904	0.0100	0.00327	J
7440-36-0	Antimony, Total	ND	0.00400	0.00042	U
7440-38-2	Arsenic, Total	ND	0.00050	0.00016	U
7440-39-3	Barium, Total	0.04582	0.00050	0.00017	
7440-41-7	Beryllium, Total	ND	0.00050	0.00010	U
7440-43-9	Cadmium, Total	ND	0.00020	0.00005	U
7440-70-2	Calcium, Total	43.1	0.100	0.0394	
7440-47-3	Chromium, Total	0.01304	0.00100	0.00017	
7440-48-4	Cobalt, Total	0.00036	0.00050	0.00016	J
7440-50-8	Copper, Total	0.00130	0.00100	0.00038	
7439-89-6	Iron, Total	0.155	0.0500	0.0191	
7439-92-1	Lead, Total	ND	0.00100	0.00034	U
7439-95-4	Magnesium, Total	9.72	0.0700	0.0242	
7439-96-5	Manganese, Total	0.07041	0.00100	0.00044	
7440-02-0	Nickel, Total	0.01224	0.00200	0.00055	
7440-09-7	Potassium, Total	3.81	0.100	0.0309	
7782-49-2	Selenium, Total	ND	0.00500	0.00173	U
7440-22-4	Silver, Total	ND	0.00040	0.00016	U
7440-23-5	Sodium, Total	11.4	0.100	0.0293	
7440-28-0	Thallium, Total	ND	0.00100	0.00014	U
7440-62-2	Vanadium, Total	ND	0.00500	0.00157	U
7440-66-6	Zinc, Total	ND	0.01000	0.00341	U

Form 1
METALS

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Lab ID	: L2434679-04	**Date Collected**	: 06/18/24 14:49
Client ID	: MW-6C	**Date Received**	: 06/19/24
Sample Location	: MANORVILLE, NY	**Date Analyzed**	: 06/26/24 12:59
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,6020B	**Analyst**	: EJF
Lab File ID	: WG1939385.csv	**Instrument ID**	: ICPMSQ
Sample Amount	: 50ml	**%Solids**	: N/A
Digestion Method	: EPA 3005A	**Date Digested**	: 06/25/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7429-90-5	Aluminum, Total	0.0449	0.0100	0.00327	
7440-36-0	Antimony, Total	ND	0.00400	0.00042	U
7440-38-2	Arsenic, Total	ND	0.00050	0.00016	U
7440-39-3	Barium, Total	0.04952	0.00050	0.00017	
7440-41-7	Beryllium, Total	ND	0.00050	0.00010	U
7440-43-9	Cadmium, Total	ND	0.00020	0.00005	U
7440-70-2	Calcium, Total	77.9	0.100	0.0394	
7440-47-3	Chromium, Total	0.00096	0.00100	0.00017	J
7440-48-4	Cobalt, Total	ND	0.00050	0.00016	U
7440-50-8	Copper, Total	0.00076	0.00100	0.00038	J
7439-89-6	Iron, Total	0.0774	0.0500	0.0191	
7439-92-1	Lead, Total	ND	0.00100	0.00034	U
7439-95-4	Magnesium, Total	16.3	0.0700	0.0242	
7439-96-5	Manganese, Total	0.00830	0.00100	0.00044	
7440-02-0	Nickel, Total	0.00067	0.00200	0.00055	J
7440-09-7	Potassium, Total	5.63	0.100	0.0309	
7782-49-2	Selenium, Total	ND	0.00500	0.00173	U
7440-22-4	Silver, Total	ND	0.00040	0.00016	U
7440-23-5	Sodium, Total	13.5	0.100	0.0293	
7440-28-0	Thallium, Total	ND	0.00100	0.00014	U
7440-62-2	Vanadium, Total	ND	0.00500	0.00157	U
7440-66-6	Zinc, Total	ND	0.01000	0.00341	U

Form 1
METALS

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Lab ID	: L2434679-05	**Date Collected**	: 06/18/24 10:15
Client ID	: MW-7A	**Date Received**	: 06/19/24
Sample Location	: MANORVILLE, NY	**Date Analyzed**	: 06/26/24 13:45
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,6020B	**Analyst**	: EJF
Lab File ID	: WG1939385.csv	**Instrument ID**	: ICPMSQ
Sample Amount	: 50ml	**%Solids**	: N/A
Digestion Method	: EPA 3005A	**Date Digested**	: 06/25/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7429-90-5	Aluminum, Total	0.0253	0.0100	0.00327	
7440-36-0	Antimony, Total	ND	0.00400	0.00042	U
7440-38-2	Arsenic, Total	ND	0.00050	0.00016	U
7440-39-3	Barium, Total	0.01862	0.00050	0.00017	
7440-41-7	Beryllium, Total	ND	0.00050	0.00010	U
7440-43-9	Cadmium, Total	ND	0.00020	0.00005	U
7440-70-2	Calcium, Total	16.2	0.100	0.0394	
7440-47-3	Chromium, Total	0.00083	0.00100	0.00017	J
7440-48-4	Cobalt, Total	ND	0.00050	0.00016	U
7440-50-8	Copper, Total	0.00051	0.00100	0.00038	J
7439-89-6	Iron, Total	0.0294	0.0500	0.0191	J
7439-92-1	Lead, Total	ND	0.00100	0.00034	U
7439-95-4	Magnesium, Total	5.60	0.0700	0.0242	
7439-96-5	Manganese, Total	0.02266	0.00100	0.00044	
7440-02-0	Nickel, Total	ND	0.00200	0.00055	U
7440-09-7	Potassium, Total	1.65	0.100	0.0309	
7782-49-2	Selenium, Total	ND	0.00500	0.00173	U
7440-22-4	Silver, Total	ND	0.00040	0.00016	U
7440-23-5	Sodium, Total	9.48	0.100	0.0293	
7440-28-0	Thallium, Total	ND	0.00100	0.00014	U
7440-62-2	Vanadium, Total	ND	0.00500	0.00157	U
7440-66-6	Zinc, Total	ND	0.01000	0.00341	U

Form 1
METALS

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Lab ID	: L2434679-06	**Date Collected**	: 06/18/24 12:05
Client ID	: MW-7B	**Date Received**	: 06/19/24
Sample Location	: MANORVILLE, NY	**Date Analyzed**	: 06/26/24 13:50
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,6020B	**Analyst**	: EJF
Lab File ID	: WG1939385.csv	**Instrument ID**	: ICPMSQ
Sample Amount	: 50ml	**%Solids**	: N/A
Digestion Method	: EPA 3005A	**Date Digested**	: 06/25/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7429-90-5	Aluminum, Total	0.176	0.0100	0.00327	
7440-36-0	Antimony, Total	ND	0.00400	0.00042	U
7440-38-2	Arsenic, Total	ND	0.00050	0.00016	U
7440-39-3	Barium, Total	0.02039	0.00050	0.00017	
7440-41-7	Beryllium, Total	ND	0.00050	0.00010	U
7440-43-9	Cadmium, Total	ND	0.00020	0.00005	U
7440-70-2	Calcium, Total	19.4	0.100	0.0394	
7440-47-3	Chromium, Total	0.00138	0.00100	0.00017	
7440-48-4	Cobalt, Total	ND	0.00050	0.00016	U
7440-50-8	Copper, Total	0.00050	0.00100	0.00038	J
7439-89-6	Iron, Total	0.180	0.0500	0.0191	
7439-92-1	Lead, Total	ND	0.00100	0.00034	U
7439-95-4	Magnesium, Total	5.56	0.0700	0.0242	
7439-96-5	Manganese, Total	0.00712	0.00100	0.00044	
7440-02-0	Nickel, Total	0.00077	0.00200	0.00055	J
7440-09-7	Potassium, Total	2.02	0.100	0.0309	
7782-49-2	Selenium, Total	ND	0.00500	0.00173	U
7440-22-4	Silver, Total	ND	0.00040	0.00016	U
7440-23-5	Sodium, Total	11.6	0.100	0.0293	
7440-28-0	Thallium, Total	ND	0.00100	0.00014	U
7440-62-2	Vanadium, Total	ND	0.00500	0.00157	U
7440-66-6	Zinc, Total	ND	0.01000	0.00341	U

Form 1
METALS

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Lab ID	: L2434679-07	**Date Collected**	: 06/18/24 12:12
Client ID	: MW-7C	**Date Received**	: 06/19/24
Sample Location	: MANORVILLE, NY	**Date Analyzed**	: 06/26/24 13:55
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,6020B	**Analyst**	: EJF
Lab File ID	: WG1939385.csv	**Instrument ID**	: ICPMSQ
Sample Amount	: 50ml	**%Solids**	: N/A
Digestion Method	: EPA 3005A	**Date Digested**	: 06/25/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7429-90-5	Aluminum, Total	0.00369	0.0100	0.00327	J
7440-36-0	Antimony, Total	ND	0.00400	0.00042	U
7440-38-2	Arsenic, Total	ND	0.00050	0.00016	U
7440-39-3	Barium, Total	0.03018	0.00050	0.00017	
7440-41-7	Beryllium, Total	ND	0.00050	0.00010	U
7440-43-9	Cadmium, Total	ND	0.00020	0.00005	U
7440-70-2	Calcium, Total	14.4	0.100	0.0394	
7440-47-3	Chromium, Total	0.00075	0.00100	0.00017	J
7440-48-4	Cobalt, Total	ND	0.00050	0.00016	U
7440-50-8	Copper, Total	0.00081	0.00100	0.00038	J
7439-89-6	Iron, Total	ND	0.0500	0.0191	U
7439-92-1	Lead, Total	ND	0.00100	0.00034	U
7439-95-4	Magnesium, Total	5.88	0.0700	0.0242	
7439-96-5	Manganese, Total	0.00108	0.00100	0.00044	
7440-02-0	Nickel, Total	ND	0.00200	0.00055	U
7440-09-7	Potassium, Total	2.34	0.100	0.0309	
7782-49-2	Selenium, Total	ND	0.00500	0.00173	U
7440-22-4	Silver, Total	ND	0.00040	0.00016	U
7440-23-5	Sodium, Total	11.4	0.100	0.0293	
7440-28-0	Thallium, Total	ND	0.00100	0.00014	U
7440-62-2	Vanadium, Total	ND	0.00500	0.00157	U
7440-66-6	Zinc, Total	ND	0.01000	0.00341	U

Form 1
METALS

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Lab ID	: L2434679-08	**Date Collected**	: 06/18/24 16:47
Client ID	: MW-8A	**Date Received**	: 06/19/24
Sample Location	: MANORVILLE, NY	**Date Analyzed**	: 06/26/24 13:59
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,6020B	**Analyst**	: EJF
Lab File ID	: WG1939385.csv	**Instrument ID**	: ICPMSQ
Sample Amount	: 50ml	**%Solids**	: N/A
Digestion Method	: EPA 3005A	**Date Digested**	: 06/25/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7429-90-5	Aluminum, Total	0.00488	0.0100	0.00327	J
7440-36-0	Antimony, Total	ND	0.00400	0.00042	U
7440-38-2	Arsenic, Total	ND	0.00050	0.00016	U
7440-39-3	Barium, Total	0.02410	0.00050	0.00017	
7440-41-7	Beryllium, Total	ND	0.00050	0.00010	U
7440-43-9	Cadmium, Total	ND	0.00020	0.00005	U
7440-70-2	Calcium, Total	15.8	0.100	0.0394	
7440-47-3	Chromium, Total	0.00214	0.00100	0.00017	
7440-48-4	Cobalt, Total	ND	0.00050	0.00016	U
7440-50-8	Copper, Total	0.00124	0.00100	0.00038	
7439-89-6	Iron, Total	ND	0.0500	0.0191	U
7439-92-1	Lead, Total	ND	0.00100	0.00034	U
7439-95-4	Magnesium, Total	5.08	0.0700	0.0242	
7439-96-5	Manganese, Total	0.00152	0.00100	0.00044	
7440-02-0	Nickel, Total	0.00145	0.00200	0.00055	J
7440-09-7	Potassium, Total	1.70	0.100	0.0309	
7782-49-2	Selenium, Total	ND	0.00500	0.00173	U
7440-22-4	Silver, Total	ND	0.00040	0.00016	U
7440-23-5	Sodium, Total	7.54	0.100	0.0293	
7440-28-0	Thallium, Total	ND	0.00100	0.00014	U
7440-62-2	Vanadium, Total	ND	0.00500	0.00157	U
7440-66-6	Zinc, Total	ND	0.01000	0.00341	U

Form 1
METALS

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Lab ID	: L2434679-09	**Date Collected**	: 06/18/24 18:25
Client ID	: MW-8B	**Date Received**	: 06/19/24
Sample Location	: MANORVILLE, NY	**Date Analyzed**	: 06/26/24 14:04
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,6020B	**Analyst**	: EJF
Lab File ID	: WG1939385.csv	**Instrument ID**	: ICPMSQ
Sample Amount	: 50ml	**%Solids**	: N/A
Digestion Method	: EPA 3005A	**Date Digested**	: 06/25/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7429-90-5	Aluminum, Total	0.0168	0.0100	0.00327	
7440-36-0	Antimony, Total	ND	0.00400	0.00042	U
7440-38-2	Arsenic, Total	ND	0.00050	0.00016	U
7440-39-3	Barium, Total	0.03397	0.00050	0.00017	
7440-41-7	Beryllium, Total	ND	0.00050	0.00010	U
7440-43-9	Cadmium, Total	ND	0.00020	0.00005	U
7440-70-2	Calcium, Total	35.0	0.100	0.0394	
7440-47-3	Chromium, Total	0.03443	0.00100	0.00017	
7440-48-4	Cobalt, Total	0.00099	0.00050	0.00016	
7440-50-8	Copper, Total	0.00323	0.00100	0.00038	
7439-89-6	Iron, Total	0.397	0.0500	0.0191	
7439-92-1	Lead, Total	ND	0.00100	0.00034	U
7439-95-4	Magnesium, Total	6.65	0.0700	0.0242	
7439-96-5	Manganese, Total	0.01458	0.00100	0.00044	
7440-02-0	Nickel, Total	0.03682	0.00200	0.00055	
7440-09-7	Potassium, Total	2.96	0.100	0.0309	
7782-49-2	Selenium, Total	ND	0.00500	0.00173	U
7440-22-4	Silver, Total	ND	0.00040	0.00016	U
7440-23-5	Sodium, Total	11.8	0.100	0.0293	
7440-28-0	Thallium, Total	ND	0.00100	0.00014	U
7440-62-2	Vanadium, Total	ND	0.00500	0.00157	U
7440-66-6	Zinc, Total	ND	0.01000	0.00341	U

Form 1
METALS

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Lab ID	: L2434679-10	**Date Collected**	: 06/19/24 11:00
Client ID	: MW-9B	**Date Received**	: 06/19/24
Sample Location	: MANORVILLE, NY	**Date Analyzed**	: 06/26/24 14:09
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,6020B	**Analyst**	: EJF
Lab File ID	: WG1939385.csv	**Instrument ID**	: ICPMSQ
Sample Amount	: 50ml	**%Solids**	: N/A
Digestion Method	: EPA 3005A	**Date Digested**	: 06/25/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7429-90-5	Aluminum, Total	0.0590	0.0100	0.00327	
7440-36-0	Antimony, Total	ND	0.00400	0.00042	U
7440-38-2	Arsenic, Total	ND	0.00050	0.00016	U
7440-39-3	Barium, Total	0.04924	0.00050	0.00017	
7440-41-7	Beryllium, Total	ND	0.00050	0.00010	U
7440-43-9	Cadmium, Total	ND	0.00020	0.00005	U
7440-70-2	Calcium, Total	14.5	0.100	0.0394	
7440-47-3	Chromium, Total	0.02430	0.00100	0.00017	
7440-48-4	Cobalt, Total	0.00063	0.00050	0.00016	
7440-50-8	Copper, Total	0.00143	0.00100	0.00038	
7439-89-6	Iron, Total	0.361	0.0500	0.0191	
7439-92-1	Lead, Total	ND	0.00100	0.00034	U
7439-95-4	Magnesium, Total	2.21	0.0700	0.0242	
7439-96-5	Manganese, Total	0.01165	0.00100	0.00044	
7440-02-0	Nickel, Total	0.02033	0.00200	0.00055	
7440-09-7	Potassium, Total	2.08	0.100	0.0309	
7782-49-2	Selenium, Total	ND	0.00500	0.00173	U
7440-22-4	Silver, Total	ND	0.00040	0.00016	U
7440-23-5	Sodium, Total	6.84	0.100	0.0293	
7440-28-0	Thallium, Total	ND	0.00100	0.00014	U
7440-62-2	Vanadium, Total	ND	0.00500	0.00157	U
7440-66-6	Zinc, Total	ND	0.01000	0.00341	U

Form 1
METALS

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Lab ID	: L2434679-11	**Date Collected**	: 06/18/24 00:00
Client ID	: DUP	**Date Received**	: 06/19/24
Sample Location	: MANORVILLE, NY	**Date Analyzed**	: 06/26/24 14:13
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,6020B	**Analyst**	: EJF
Lab File ID	: WG1939385.csv	**Instrument ID**	: ICPMSQ
Sample Amount	: 50ml	**%Solids**	: N/A
Digestion Method	: EPA 3005A	**Date Digested**	: 06/25/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7429-90-5	Aluminum, Total	0.00596	0.0100	0.00327	J
7440-36-0	Antimony, Total	ND	0.00400	0.00042	U
7440-38-2	Arsenic, Total	ND	0.00050	0.00016	U
7440-39-3	Barium, Total	0.02446	0.00050	0.00017	
7440-41-7	Beryllium, Total	ND	0.00050	0.00010	U
7440-43-9	Cadmium, Total	ND	0.00020	0.00005	U
7440-70-2	Calcium, Total	16.3	0.100	0.0394	
7440-47-3	Chromium, Total	0.00589	0.00100	0.00017	
7440-48-4	Cobalt, Total	ND	0.00050	0.00016	U
7440-50-8	Copper, Total	0.00048	0.00100	0.00038	J
7439-89-6	Iron, Total	0.0622	0.0500	0.0191	
7439-92-1	Lead, Total	ND	0.00100	0.00034	U
7439-95-4	Magnesium, Total	5.25	0.0700	0.0242	
7439-96-5	Manganese, Total	0.00269	0.00100	0.00044	
7440-02-0	Nickel, Total	0.00502	0.00200	0.00055	
7440-09-7	Potassium, Total	1.72	0.100	0.0309	
7782-49-2	Selenium, Total	ND	0.00500	0.00173	U
7440-22-4	Silver, Total	ND	0.00040	0.00016	U
7440-23-5	Sodium, Total	7.71	0.100	0.0293	
7440-28-0	Thallium, Total	ND	0.00100	0.00014	U
7440-62-2	Vanadium, Total	ND	0.00500	0.00157	U
7440-66-6	Zinc, Total	ND	0.01000	0.00341	U

Form 1
METALS

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Lab ID	: L2434679-12	**Date Collected**	: 06/18/24 19:00
Client ID	: EB	**Date Received**	: 06/19/24
Sample Location	: MANORVILLE, NY	**Date Analyzed**	: 06/26/24 14:18
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,6020B	**Analyst**	: EJF
Lab File ID	: WG1939385.csv	**Instrument ID**	: ICPMSQ
Sample Amount	: 50ml	**%Solids**	: N/A
Digestion Method	: EPA 3005A	**Date Digested**	: 06/25/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7429-90-5	Aluminum, Total	0.0323	0.0100	0.00327	
7440-36-0	Antimony, Total	ND	0.00400	0.00042	U
7440-38-2	Arsenic, Total	ND	0.00050	0.00016	U
7440-39-3	Barium, Total	ND	0.00050	0.00017	U
7440-41-7	Beryllium, Total	ND	0.00050	0.00010	U
7440-43-9	Cadmium, Total	ND	0.00020	0.00005	U
7440-70-2	Calcium, Total	ND	0.100	0.0394	U
7440-47-3	Chromium, Total	0.00021	0.00100	0.00017	J
7440-48-4	Cobalt, Total	ND	0.00050	0.00016	U
7440-50-8	Copper, Total	ND	0.00100	0.00038	U
7439-89-6	Iron, Total	ND	0.0500	0.0191	U
7439-92-1	Lead, Total	ND	0.00100	0.00034	U
7439-95-4	Magnesium, Total	ND	0.0700	0.0242	U
7439-96-5	Manganese, Total	ND	0.00100	0.00044	U
7440-02-0	Nickel, Total	ND	0.00200	0.00055	U
7440-09-7	Potassium, Total	ND	0.100	0.0309	U
7782-49-2	Selenium, Total	ND	0.00500	0.00173	U
7440-22-4	Silver, Total	ND	0.00040	0.00016	U
7440-23-5	Sodium, Total	ND	0.100	0.0293	U
7440-28-0	Thallium, Total	ND	0.00100	0.00014	U
7440-62-2	Vanadium, Total	ND	0.00500	0.00157	U
7440-66-6	Zinc, Total	ND	0.01000	0.00341	U

Form 1
METALS

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Lab ID	: L2434679-14	**Date Collected**	: 06/18/24 18:07
Client ID	: MW-8B2	**Date Received**	: 06/19/24
Sample Location	: MANORVILLE, NY	**Date Analyzed**	: 06/26/24 14:23
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,6020B	**Analyst**	: EJF
Lab File ID	: WG1939385.csv	**Instrument ID**	: ICPMSQ
Sample Amount	: 50ml	**%Solids**	: N/A
Digestion Method	: EPA 3005A	**Date Digested**	: 06/25/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7429-90-5	Aluminum, Total	0.00719	0.0100	0.00327	J
7440-36-0	Antimony, Total	ND	0.00400	0.00042	U
7440-38-2	Arsenic, Total	ND	0.00050	0.00016	U
7440-39-3	Barium, Total	0.02407	0.00050	0.00017	
7440-41-7	Beryllium, Total	ND	0.00050	0.00010	U
7440-43-9	Cadmium, Total	ND	0.00020	0.00005	U
7440-70-2	Calcium, Total	29.2	0.100	0.0394	
7440-47-3	Chromium, Total	0.01719	0.00100	0.00017	
7440-48-4	Cobalt, Total	0.00042	0.00050	0.00016	J
7440-50-8	Copper, Total	0.00111	0.00100	0.00038	
7439-89-6	Iron, Total	0.185	0.0500	0.0191	
7439-92-1	Lead, Total	ND	0.00100	0.00034	U
7439-95-4	Magnesium, Total	5.99	0.0700	0.0242	
7439-96-5	Manganese, Total	0.00598	0.00100	0.00044	
7440-02-0	Nickel, Total	0.01667	0.00200	0.00055	
7440-09-7	Potassium, Total	2.68	0.100	0.0309	
7782-49-2	Selenium, Total	ND	0.00500	0.00173	U
7440-22-4	Silver, Total	ND	0.00040	0.00016	U
7440-23-5	Sodium, Total	11.7	0.100	0.0293	
7440-28-0	Thallium, Total	ND	0.00100	0.00014	U
7440-62-2	Vanadium, Total	ND	0.00500	0.00157	U
7440-66-6	Zinc, Total	ND	0.01000	0.00341	U

Form 1
METALS

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Lab ID	: WG1939188-1	**Date Collected**	: NA
Client ID	: WG1939188-1BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 06/26/24 12:41
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,6020B	**Analyst**	: EJF
Lab File ID	: WG1939385.csv	**Instrument ID**	: ICPMSQ
Sample Amount	: 50ml	**%Solids**	: N/A
Digestion Method	: EPA 3005A	**Date Digested**	: 06/25/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7429-90-5	Aluminum, Total	ND	0.0100	0.00327	U
7440-36-0	Antimony, Total	ND	0.00400	0.00042	U
7440-38-2	Arsenic, Total	ND	0.00050	0.00016	U
7440-39-3	Barium, Total	ND	0.00050	0.00017	U
7440-41-7	Beryllium, Total	ND	0.00050	0.00010	U
7440-43-9	Cadmium, Total	ND	0.00020	0.00005	U
7440-70-2	Calcium, Total	ND	0.100	0.0394	U
7440-47-3	Chromium, Total	ND	0.00100	0.00017	U
7440-48-4	Cobalt, Total	ND	0.00050	0.00016	U
7440-50-8	Copper, Total	ND	0.00100	0.00038	U
7439-89-6	Iron, Total	ND	0.0500	0.0191	U
7439-92-1	Lead, Total	ND	0.00100	0.00034	U
7439-95-4	Magnesium, Total	ND	0.0700	0.0242	U
7439-96-5	Manganese, Total	ND	0.00100	0.00044	U
7440-02-0	Nickel, Total	ND	0.00200	0.00055	U
7440-09-7	Potassium, Total	ND	0.100	0.0309	U
7782-49-2	Selenium, Total	ND	0.00500	0.00173	U
7440-22-4	Silver, Total	ND	0.00040	0.00016	U
7440-23-5	Sodium, Total	ND	0.100	0.0293	U
7440-28-0	Thallium, Total	ND	0.00100	0.00014	U
7440-62-2	Vanadium, Total	ND	0.00500	0.00157	U
7440-66-6	Zinc, Total	ND	0.01000	0.00341	U

Form 2A
Initial and Continuing Calibration Verification

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Instrument ID	: ICPMSQ	**Units**	: ug/l

	Initial Calibration			Continuing Calibration(s)						
Lab ID :	R1845784-1			R1845784-5			R1845784-7		R1845784-9	
Date Analyzed :	06/26/24 04:05			06/26/24 04:40			06/26/24 05:40		06/26/24 06:04	
Parameter	**True**	**Found**	**%R**	**True**	**Found**	**%R**	**Found**	**%R**	**Found**	**%R**
Aluminum	50.0	46.9000	94	60.0000	57.6	96	57.6	96	54.5	91
Antimony	50.0	50.6000	101	60.0000	59.3	99	60.0	100	61.6	103
Arsenic	50.0	47.9000	96	60.0000	60.3	100	57.5	96	54.6	91
Barium	50.0	51.6000	103	60.0000	58.5	98	63.4	106	61.2	102
Beryllium	50.0	51.0000	102	60.0000	60.9	102	59.7	100	58.4	97
Cadmium	50.0	51.8000	104	60.0000	60.0	100	61.2	102	61.7	103
Calcium	5000	5210.0000	104	6000.0000	6370	106	6420	107	6170	103
Chromium	50.0	54.1000	108	60.0000	63.1	105	74.0	123	77.1	128
Cobalt	50.0	51.1000	102	60.0000	60.5	101	59.2	99	56.6	94
Copper	50.0	50.6000	101	60.0000	62.4	104	61.5	102	60.2	100
Iron	5000	5020.0000	100	6000.0000	5960	99	5930	99	5540	92
Lead	50.0	53.4000	107	60.0000	62.4	104	63.0	105	62.3	104
Magnesium	5000	5180.0000	104	6000.0000	5840	97	6040	101	5570	93
Manganese	50.0	49.3000	99	60.0000	61.1	102	63.4	106	60.6	101
Nickel	50.0	48.8000	98	60.0000	57.3	96	58.2	97	54.2	90
Potassium	5000	4920.0000	98	6000.0000	5890	98	5530	92	5460	91
Selenium	50.0	48.3000	97	60.0000	63.0	105	57.4	96	58.5	98
Silver	50.0	50.1000	100	60.0000	60.0	100	61.6	103	60.8	101
Sodium	5000	5130.0000	103	6000.0000	5790	96	6020	100	5500	92
Thallium	50.0	51.8000	104	60.0000	60.6	101	62.7	104	61.6	103
Vanadium	50.0	52.4000	105	60.0000	63.3	106	66.8	111	60.4	101
Zinc	50.0	50.2000	100	60.0000	61.4	102	61.6	103	58.7	98

Acceptance Criteria:

ICV:	95-105%	(Methods 200.7, 245.1)
	90-110%	(Methods 200.8, 6010, 6020, 7470, 7471, 7474)
	85-115%	(Method 1631)
CCV:	90-110%	(Methods 200.7, 245.1, 6010, 6020, 7474)
	85-115%	(Methods 200.8, 1631)
	80-120%	(Methods 7470, 7471)

Form 2A
Initial and Continuing Calibration Verification

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Instrument ID	: ICPMSQ	**Units**	: ug/l

	Initial Calibration			Continuing Calibration(s)						
Lab ID :				R1845784-12			R1845784-14		R1845784-16	
Date Analyzed:				06/26/24 07:07			06/26/24 07:23		06/26/24 08:25	
Parameter	**True**	**Found**	**%R**	**True**	**Found**	**%R**	**Found**	**%R**	**Found**	**%R**
Aluminum				60.0000	51.4	86	56.1	94	52.9	88
Antimony				60.0000	59.7	100	59.8	100	58.5	98
Arsenic				60.0000	56.0	93	55.4	92	56.6	94
Barium				60.0000	61.2	102	63.2	105	62.0	103
Beryllium				60.0000	58.8	98	59.8	100	59.7	100
Cadmium				60.0000	60.8	101	61.1	102	61.9	103
Calcium				6000.0000	6030	100	6200	103	6260	104
Chromium				60.0000	71.9	120	72.4	121	73.6	123
Cobalt				60.0000	58.2	97	58.4	97	58.3	97
Copper				60.0000	60.0	100	59.3	99	61.4	102
Iron				6000.0000	5600	93	5590	93	5680	95
Lead				60.0000	60.8	101	61.2	102	60.3	100
Magnesium				6000.0000	5520	92	5820	97	5670	94
Manganese				60.0000	58.6	98	59.3	99	60.8	101
Nickel				60.0000	54.8	91	56.1	94	56.1	94
Potassium				6000.0000	5300	88	5440	91	5550	92
Selenium				60.0000	58.9	98	60.9	102	59.2	99
Silver				60.0000	60.0	100	60.4	101	60.8	101
Sodium				6000.0000	5530	92	5660	94	5560	93
Thallium				60.0000	59.8	100	60.2	100	59.0	98
Vanadium				60.0000	65.0	108	65.2	109	67.2	112
Zinc				60.0000	59.3	99	59.0	98	60.9	102

Acceptance Criteria:

ICV:	95-105%	(Methods 200.7, 245.1)
	90-110%	(Methods 200.8, 6010, 6020, 7470, 7471, 7474)
	85-115%	(Method 1631)
CCV:	90-110%	(Methods 200.7, 245.1, 6010, 6020, 7474)
	85-115%	(Methods 200.8, 1631)
	80-120%	(Methods 7470, 7471)

Form 2A
Initial and Continuing Calibration Verification

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Instrument ID	: ICPMSQ	**Units**	: ug/l

	Initial Calibration			Continuing Calibration(s)						
Lab ID :				R1845784-18			R1845784-20		R1845784-22	
Date Analyzed :				06/26/24 08:40			06/26/24 09:42		06/26/24 10:34	
Parameter	**True**	**Found**	**%R**	**True**	**Found**	**%R**	**Found**	**%R**	**Found**	**%R**
Aluminum				60.0000	51.7	86	56.1	94	58.2	97
Antimony				60.0000	54.4	91	54.6	91	55.6	93
Arsenic				60.0000	56.9	95	56.2	94	58.3	97
Barium				60.0000	63.3	106	65.8	110	62.4	104
Beryllium				60.0000	58.9	98	60.4	101	60.5	101
Cadmium				60.0000	62.3	104	60.2	100	60.5	101
Calcium				6000.0000	6220	104	6130	102	6370	106
Chromium				60.0000	73.1	122	69.2	115	66.4	111
Cobalt				60.0000	58.4	97	58.3	97	60.6	101
Copper				60.0000	60.6	101	59.6	99	61.4	102
Iron				6000.0000	5660	94	5590	93	5840	97
Lead				60.0000	61.0	102	60.1	100	59.2	99
Magnesium				6000.0000	5630	94	6030	100	6100	102
Manganese				60.0000	60.0	100	60.5	101	60.9	102
Nickel				60.0000	55.4	92	56.7	94	57.8	96
Potassium				6000.0000	5440	91	5660	94	5990	100
Selenium				60.0000	60.0	100	56.6	94	60.6	101
Silver				60.0000	61.1	102	60.1	100	59.6	99
Sodium				6000.0000	5520	92	5900	98	6010	100
Thallium				60.0000	61.4	102	60.9	102	60.8	101
Vanadium				60.0000	65.5	109	65.4	109	63.4	106
Zinc				60.0000	59.5	99	59.8	100	60.0	100

Acceptance Criteria:

ICV:	95-105%	(Methods 200.7, 245.1)
	90-110%	(Methods 200.8, 6010, 6020, 7470, 7471, 7474)
	85-115%	(Method 1631)
CCV:	90-110%	(Methods 200.7, 245.1, 6010, 6020, 7474)
	85-115%	(Methods 200.8, 1631)
	80-120%	(Methods 7470, 7471)

Form 2A
Initial and Continuing Calibration Verification

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Instrument ID	: ICPMSQ	**Units**	: ug/l

	Initial Calibration			Continuing Calibration(s)						
Lab ID :	R1845784-24			R1845784-27			R1845784-30		R1845784-32	
Date Analyzed :	06/26/24 11:59			06/26/24 12:22			06/26/24 13:27		06/26/24 14:27	
Parameter	**True**	**Found**	**%R**	**True**	**Found**	**%R**	**Found**	**%R**	**Found**	**%R**
Aluminum	50.0	46.6000	93	60.0000	57.5	96	54.8	91	57.2	95
Antimony	50.0	50.1000	100	60.0000	54.9	92	54.5	91	54.5	91
Arsenic	50.0	50.2000	100	60.0000	61.3	102	59.3	99	58.0	97
Barium	50.0	53.0000	106	60.0000	61.9	103	62.1	104	63.3	106
Beryllium	50.0	50.9000	102	60.0000	61.6	103	60.5	101	60.4	101
Cadmium	50.0	49.6000	99	60.0000	59.2	99	58.4	97	59.2	99
Calcium	5000	5110.0000	102	6000.0000	5860	98	5860	98	5580	93
Chromium	50.0	50.5000	101	60.0000	56.0	93	59.8	100	58.0	97
Cobalt	50.0	50.3000	101	60.0000	61.4	102	58.1	97	57.1	95
Copper	50.0	50.8000	102	60.0000	61.8	103	58.9	98	56.5	94
Iron	5000	4960.0000	99	6000.0000	6080	101	5820	97	5660	94
Lead	50.0	52.3000	105	60.0000	60.2	100	64.3	107	65.3	109
Magnesium	5000	5000.0000	100	6000.0000	6010	100	5690	95	5640	94
Manganese	50.0	49.3000	99	60.0000	57.5	96	57.6	96	55.7	93
Nickel	50.0	49.5000	99	60.0000	58.8	98	56.4	94	55.2	92
Potassium	5000	5060.0000	101	6000.0000	6190	103	5900	98	5590	93
Selenium	50.0	51.3000	103	60.0000	60.4	101	60.5	101	57.5	96
Silver	50.0	49.4000	99	60.0000	59.0	98	59.9	100	59.4	99
Sodium	5000	5010.0000	100	6000.0000	5990	100	5730	96	5600	93
Thallium	50.0	50.8000	102	60.0000	59.7	100	63.7	106	64.6	108
Vanadium	50.0	50.0000	100	60.0000	58.0	97	59.5	99	58.2	97
Zinc	50.0	51.5000	103	60.0000	60.7	101	59.8	100	58.0	97

Acceptance Criteria:

ICV:	95-105%	(Methods 200.7, 245.1)
	90-110%	(Methods 200.8, 6010, 6020, 7470, 7471, 7474)
	85-115%	(Method 1631)
CCV:	90-110%	(Methods 200.7, 245.1, 6010, 6020, 7474)
	85-115%	(Methods 200.8, 1631)
	80-120%	(Methods 7470, 7471)

Form 2A
Initial and Continuing Calibration Verification

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Instrument ID	: ICPMSQ	**Units**	: ug/l

	Initial Calibration			Continuing Calibration(s)						
Lab ID :				R1845784-34			R1845784-36		R1845784-38	
Date Analyzed :				06/26/24 15:28			06/26/24 16:34		06/26/24 16:54	
Parameter	**True**	**Found**	**%R**	**True**	**Found**	**%R**	**Found**	**%R**	**Found**	**%R**
Aluminum				60.0000	54.8	91	53.1	88	54.4	91
Antimony				60.0000	56.1	94	56.4	94	55.7	93
Arsenic				60.0000	60.4	101	58.8	98	60.8	101
Barium				60.0000	61.9	103	61.7	103	61.0	102
Beryllium				60.0000	60.6	101	60.0	100	59.3	99
Cadmium				60.0000	59.6	99	59.7	100	58.2	97
Calcium				6000.0000	5970	100	5840	97	6060	101
Chromium				60.0000	60.9	102	59.9	100	60.6	101
Cobalt				60.0000	58.3	97	58.2	97	58.4	97
Copper				60.0000	59.8	100	59.2	99	59.6	99
Iron				6000.0000	5780	96	5760	96	5840	97
Lead				60.0000	65.6	109	66.1	110	65.5	109
Magnesium				6000.0000	5670	94	5650	94	5880	98
Manganese				60.0000	58.6	98	56.0	93	56.8	95
Nickel				60.0000	56.4	94	56.4	94	56.1	94
Potassium				6000.0000	5760	96	5610	94	5950	99
Selenium				60.0000	60.4	101	60.1	100	63.4	106
Silver				60.0000	59.1	98	60.0	100	58.2	97
Sodium				6000.0000	5530	92	5520	92	5740	96
Thallium				60.0000	64.6	108	66.2	110	64.6	108
Vanadium				60.0000	61.6	103	59.3	99	60.4	101
Zinc				60.0000	62.1	104	61.3	102	61.7	103

Acceptance Criteria:

ICV:	95-105%	(Methods 200.7, 245.1)
	90-110%	(Methods 200.8, 6010, 6020, 7470, 7471, 7474)
	85-115%	(Method 1631)
CCV:	90-110%	(Methods 200.7, 245.1, 6010, 6020, 7474)
	85-115%	(Methods 200.8, 1631)
	80-120%	(Methods 7470, 7471)

Form 2A
Initial and Continuing Calibration Verification

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Instrument ID	: ICPMSQ	**Units**	: ug/l

	Initial Calibration			Continuing Calibration(s)						
Lab ID :				R1845784-40						
Date Analyzed :				06/26/24 18:03						
Parameter	**True**	**Found**	**%R**	**True**	**Found**	**%R**	**Found**	**%R**	**Found**	**%R**
Aluminum				60.0000	54.6	91				
Antimony				60.0000	55.5	92				
Arsenic				60.0000	61.0	102				
Barium				60.0000	59.5	99				
Beryllium				60.0000	59.7	100				
Cadmium				60.0000	58.0	97				
Calcium				6000.0000	5760	96				
Chromium				60.0000	57.4	96				
Cobalt				60.0000	59.6	99				
Copper				60.0000	60.0	100				
Iron				6000.0000	5820	97				
Lead				60.0000	64.0	107				
Magnesium				6000.0000	5730	96				
Manganese				60.0000	56.9	95				
Nickel				60.0000	57.7	96				
Potassium				6000.0000	5680	95				
Selenium				60.0000	60.8	101				
Silver				60.0000	59.0	98				
Sodium				6000.0000	5720	95				
Thallium				60.0000	63.2	105				
Vanadium				60.0000	60.8	101				
Zinc				60.0000	61.4	102				

Acceptance Criteria:

ICV:	95-105%	(Methods 200.7, 245.1)
	90-110%	(Methods 200.8, 6010, 6020, 7470, 7471, 7474)
	85-115%	(Method 1631)
CCV:	90-110%	(Methods 200.7, 245.1, 6010, 6020, 7474)
	85-115%	(Methods 200.8, 1631)
	80-120%	(Methods 7470, 7471)

Form 2A
Initial and Continuing Calibration Verification

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Instrument ID	: ICPMSQ	**Units**	: ug/l

	Initial Calibration			Continuing Calibration(s)						
Lab ID :	R1845784-1			R1845784-5			R1845784-7		R1845784-9	
Date Analyzed :	06/26/24 04:05			06/26/24 04:40			06/26/24 05:40		06/26/24 06:04	
Parameter	**True**	**Found**	**%R**	**True**	**Found**	**%R**	**Found**	**%R**	**Found**	**%R**
Aluminum	50.0	46.9000	94	60.0000	57.6	96	57.6	96	54.5	91
Antimony	50.0	50.6000	101	60.0000	59.3	99	60.0	100	61.6	103
Arsenic	50.0	47.9000	96	60.0000	60.3	100	57.5	96	54.6	91
Barium	50.0	51.6000	103	60.0000	58.5	98	63.4	106	61.2	102
Beryllium	50.0	51.0000	102	60.0000	60.9	102	59.7	100	58.4	97
Cadmium	50.0	51.8000	104	60.0000	60.0	100	61.2	102	61.7	103
Calcium	5000	5210.0000	104	6000.0000	6370	106	6420	107	6170	103
Chromium	50.0	54.1000	108	60.0000	63.1	105	74.0	123	77.1	128
Cobalt	50.0	51.1000	102	60.0000	60.5	101	59.2	99	56.6	94
Copper	50.0	50.6000	101	60.0000	62.4	104	61.5	102	60.2	100
Iron	5000	5020.0000	100	6000.0000	5960	99	5930	99	5540	92
Lead	50.0	53.4000	107	60.0000	62.4	104	63.0	105	62.3	104
Magnesium	5000	5180.0000	104	6000.0000	5840	97	6040	101	5570	93
Manganese	50.0	49.3000	99	60.0000	61.1	102	63.4	106	60.6	101
Nickel	50.0	48.8000	98	60.0000	57.3	96	58.2	97	54.2	90
Potassium	5000	4920.0000	98	6000.0000	5890	98	5530	92	5460	91
Selenium	50.0	48.3000	97	60.0000	63.0	105	57.4	96	58.5	98
Silver	50.0	50.1000	100	60.0000	60.0	100	61.6	103	60.8	101
Sodium	5000	5130.0000	103	6000.0000	5790	96	6020	100	5500	92
Thallium	50.0	51.8000	104	60.0000	60.6	101	62.7	104	61.6	103
Vanadium	50.0	52.4000	105	60.0000	63.3	106	66.8	111	60.4	101
Zinc	50.0	50.2000	100	60.0000	61.4	102	61.6	103	58.7	98

Acceptance Criteria:

ICV:	95-105%	(Methods 200.7, 245.1)
	90-110%	(Methods 200.8, 6010, 6020, 7470, 7471, 7474)
	85-115%	(Method 1631)
CCV:	90-110%	(Methods 200.7, 245.1, 6010, 6020, 7474)
	85-115%	(Methods 200.8, 1631)
	80-120%	(Methods 7470, 7471)

Form 2A
Initial and Continuing Calibration Verification

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Instrument ID	: ICPMSQ	**Units**	: ug/l

	Initial Calibration			Continuing Calibration(s)						
Lab ID :				R1845784-12			R1845784-14		R1845784-16	
Date Analyzed :				06/26/24 07:07			06/26/24 07:23		06/26/24 08:25	
Parameter	**True**	**Found**	**%R**	**True**	**Found**	**%R**	**Found**	**%R**	**Found**	**%R**
Aluminum				60.0000	51.4	86	56.1	94	52.9	88
Antimony				60.0000	59.7	100	59.8	100	58.5	98
Arsenic				60.0000	56.0	93	55.4	92	56.6	94
Barium				60.0000	61.2	102	63.2	105	62.0	103
Beryllium				60.0000	58.8	98	59.8	100	59.7	100
Cadmium				60.0000	60.8	101	61.1	102	61.9	103
Calcium				6000.0000	6030	100	6200	103	6260	104
Chromium				60.0000	71.9	120	72.4	121	73.6	123
Cobalt				60.0000	58.2	97	58.4	97	58.3	97
Copper				60.0000	60.0	100	59.3	99	61.4	102
Iron				6000.0000	5600	93	5590	93	5680	95
Lead				60.0000	60.8	101	61.2	102	60.3	100
Magnesium				6000.0000	5520	92	5820	97	5670	94
Manganese				60.0000	58.6	98	59.3	99	60.8	101
Nickel				60.0000	54.8	91	56.1	94	56.1	94
Potassium				6000.0000	5300	88	5440	91	5550	92
Selenium				60.0000	58.9	98	60.9	102	59.2	99
Silver				60.0000	60.0	100	60.4	101	60.8	101
Sodium				6000.0000	5530	92	5660	94	5560	93
Thallium				60.0000	59.8	100	60.2	100	59.0	98
Vanadium				60.0000	65.0	108	65.2	109	67.2	112
Zinc				60.0000	59.3	99	59.0	98	60.9	102

Acceptance Criteria:

ICV:	95-105%	(Methods 200.7, 245.1)
	90-110%	(Methods 200.8, 6010, 6020, 7470, 7471, 7474)
	85-115%	(Method 1631)
CCV:	90-110%	(Methods 200.7, 245.1, 6010, 6020, 7474)
	85-115%	(Methods 200.8, 1631)
	80-120%	(Methods 7470, 7471)

Form 2A
Initial and Continuing Calibration Verification

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Instrument ID	: ICPMSQ	**Units**	: ug/l

	Initial Calibration			Continuing Calibration(s)						
Lab ID :				R1845784-18			R1845784-20		R1845784-22	
Date Analyzed :				06/26/24 08:40			06/26/24 09:42		06/26/24 10:34	
Parameter	**True**	**Found**	**%R**	**True**	**Found**	**%R**	**Found**	**%R**	**Found**	**%R**
Aluminum				60.0000	51.7	86	56.1	94	58.2	97
Antimony				60.0000	54.4	91	54.6	91	55.6	93
Arsenic				60.0000	56.9	95	56.2	94	58.3	97
Barium				60.0000	63.3	106	65.8	110	62.4	104
Beryllium				60.0000	58.9	98	60.4	101	60.5	101
Cadmium				60.0000	62.3	104	60.2	100	60.5	101
Calcium				6000.0000	6220	104	6130	102	6370	106
Chromium				60.0000	73.1	122	69.2	115	66.4	111
Cobalt				60.0000	58.4	97	58.3	97	60.6	101
Copper				60.0000	60.6	101	59.6	99	61.4	102
Iron				6000.0000	5660	94	5590	93	5840	97
Lead				60.0000	61.0	102	60.1	100	59.2	99
Magnesium				6000.0000	5630	94	6030	100	6100	102
Manganese				60.0000	60.0	100	60.5	101	60.9	102
Nickel				60.0000	55.4	92	56.7	94	57.8	96
Potassium				6000.0000	5440	91	5660	94	5990	100
Selenium				60.0000	60.0	100	56.6	94	60.6	101
Silver				60.0000	61.1	102	60.1	100	59.6	99
Sodium				6000.0000	5520	92	5900	98	6010	100
Thallium				60.0000	61.4	102	60.9	102	60.8	101
Vanadium				60.0000	65.5	109	65.4	109	63.4	106
Zinc				60.0000	59.5	99	59.8	100	60.0	100

Acceptance Criteria:

ICV:	95-105%	(Methods 200.7, 245.1)
	90-110%	(Methods 200.8, 6010, 6020, 7470, 7471, 7474)
	85-115%	(Method 1631)
CCV:	90-110%	(Methods 200.7, 245.1, 6010, 6020, 7474)
	85-115%	(Methods 200.8, 1631)
	80-120%	(Methods 7470, 7471)

Form 2A
Initial and Continuing Calibration Verification

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Instrument ID	: ICPMSQ	**Units**	: ug/l

	Initial Calibration			Continuing Calibration(s)						
Lab ID :	R1845784-24			R1845784-27			R1845784-30		R1845784-32	
Date Analyzed :	06/26/24 11:59			06/26/24 12:22			06/26/24 13:27		06/26/24 14:27	
Parameter	**True**	**Found**	**%R**	**True**	**Found**	**%R**	**Found**	**%R**	**Found**	**%R**
Aluminum	50.0	46.6000	93	60.0000	57.5	96	54.8	91	57.2	95
Antimony	50.0	50.1000	100	60.0000	54.9	92	54.5	91	54.5	91
Arsenic	50.0	50.2000	100	60.0000	61.3	102	59.3	99	58.0	97
Barium	50.0	53.0000	106	60.0000	61.9	103	62.1	104	63.3	106
Beryllium	50.0	50.9000	102	60.0000	61.6	103	60.5	101	60.4	101
Cadmium	50.0	49.6000	99	60.0000	59.2	99	58.4	97	59.2	99
Calcium	5000	5110.0000	102	6000.0000	5860	98	5860	98	5580	93
Chromium	50.0	50.5000	101	60.0000	56.0	93	59.8	100	58.0	97
Cobalt	50.0	50.3000	101	60.0000	61.4	102	58.1	97	57.1	95
Copper	50.0	50.8000	102	60.0000	61.8	103	58.9	98	56.5	94
Iron	5000	4960.0000	99	6000.0000	6080	101	5820	97	5660	94
Lead	50.0	52.3000	105	60.0000	60.2	100	64.3	107	65.3	109
Magnesium	5000	5000.0000	100	6000.0000	6010	100	5690	95	5640	94
Manganese	50.0	49.3000	99	60.0000	57.5	96	57.6	96	55.7	93
Nickel	50.0	49.5000	99	60.0000	58.8	98	56.4	94	55.2	92
Potassium	5000	5060.0000	101	6000.0000	6190	103	5900	98	5590	93
Selenium	50.0	51.3000	103	60.0000	60.4	101	60.5	101	57.5	96
Silver	50.0	49.4000	99	60.0000	59.0	98	59.9	100	59.4	99
Sodium	5000	5010.0000	100	6000.0000	5990	100	5730	96	5600	93
Thallium	50.0	50.8000	102	60.0000	59.7	100	63.7	106	64.6	108
Vanadium	50.0	50.0000	100	60.0000	58.0	97	59.5	99	58.2	97
Zinc	50.0	51.5000	103	60.0000	60.7	101	59.8	100	58.0	97

Acceptance Criteria:

ICV:	95-105%	(Methods 200.7, 245.1)
	90-110%	(Methods 200.8, 6010, 6020, 7470, 7471, 7474)
	85-115%	(Method 1631)
CCV:	90-110%	(Methods 200.7, 245.1, 6010, 6020, 7474)
	85-115%	(Methods 200.8, 1631)
	80-120%	(Methods 7470, 7471)

Form 3
Blanks

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Instrument ID	: ICPMSQ		

	Initial Calibration Blank		Continuing Calibration Blank(s)						Preparation Blank	
Lab ID :	R1845784-2		R1845784-6		R1845784-8		R1845784-10		WG1939202-1	
Date Analyzed :	06/26/24 04:10		06/26/24 04:45		06/26/24 05:45		06/26/24 06:10		06/26/24 14:40	
Parameter	ug/l	Q	ug/l	Q	ug/l	Q	ug/l	Q	mg/l	Q
Aluminum	3.27	U	3.27	U	3.27	U	3.27	U	0.00327	U
Antimony	0.429	U	0.429	U	0.429	U	0.429	U	0.00042	U
Arsenic	0.165	U	0.165	U	0.165	U	0.165	U	0.00016	U
Barium	0.173	U	0.173	U	0.173	U	0.173	U	0.00017	U
Beryllium	0.107	U	0.107	U	0.107	U	0.107	U	0.00010	U
Cadmium	0.0599	U	0.0599	U	0.0599	U	0.0599	U	0.00005	U
Calcium	39.4	U	39.4	U	39.4	U	39.4	U	0.0394	U
Chromium	0.178	U	0.178	U	0.178	U	0.178	U	0.00017	U
Cobalt	0.163	U	0.163	U	0.163	U	0.163	U	0.00016	U
Copper	0.384	U	0.384	U	0.384	U	0.384	U	0.00038	U
Iron	19.1	U	19.1	U	19.1	U	19.1	U	0.0191	U
Lead	0.343	U	0.378	J	0.343	U	0.343	U	0.00034	U
Magnesium	24.2	U	24.2	U	24.2	U	24.2	U	0.0242	U
Manganese	0.440	U	0.440	U	0.440	U	0.440	U	0.00044	U
Nickel	0.556	U	0.556	U	0.556	U	0.556	U	0.00055	U
Potassium	30.9	U	30.9	U	30.9	U	30.9	U	0.0309	U
Selenium	1.73	U	1.73	U	1.73	U	1.73	U	0.00173	U
Silver	0.163	U	0.163	U	0.163	U	0.163	U	0.00016	U
Sodium	29.3	U	29.3	U	29.3	U	29.3	U	0.0293	U
Thallium	0.524	J	0.433	J	0.415	J	0.342	J	0.00014	U
Vanadium	1.57	U	1.57	U	1.57	U	1.57	U	0.00157	U
Zinc	3.41	U	3.41	U	3.41	U	3.41	U	0.00341	U

Form 3
Blanks

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Instrument ID	: ICPMSQ		

		Initial Calibration Blank		Continuing Calibration Blank(s)						Preparation Blank	
Lab ID	:	R1845784-3		R1845784-13		R1845784-15		R1845784-17			
Date Analyzed	:	06/26/24 04:18		06/26/24 07:12		06/26/24 07:28		06/26/24 08:29			
Parameter		ug/l	Q	ug/l	Q	ug/l	Q	ug/l	Q		Q
Aluminum		3.27	U	3.27	U	3.27	U	3.27	U		
Antimony		0.429	U	0.429	U	0.429	U	0.429	U		
Arsenic		0.165	U	0.165	U	0.165	U	0.165	U		
Barium		0.173	U	0.173	U	0.173	U	0.173	U		
Beryllium		0.107	U	0.107	U	0.107	U	0.107	U		
Cadmium		0.0599	U	0.0599	U	0.0599	U	0.0599	U		
Calcium		39.4	U	39.4	U	39.4	U	39.4	U		
Chromium		0.178	U	0.178	U	0.178	U	0.178	U		
Cobalt		0.163	U	0.163	U	0.163	U	0.163	U		
Copper		0.384	U	0.384	U	0.384	U	0.384	U		
Iron		19.1	U	19.1	U	19.1	U	19.1	U		
Lead		0.343	U	0.343	U	0.343	U	0.343	U		
Magnesium		24.2	U	24.2	U	24.2	U	24.2	U		
Manganese		0.440	U	0.440	U	0.440	U	0.440	U		
Nickel		0.556	U	0.556	U	0.556	U	0.556	U		
Potassium		30.9	U	30.9	U	30.9	U	30.9	U		
Selenium		1.73	U	1.73	U	1.73	U	1.73	U		
Silver		0.163	U	0.163	U	0.163	U	0.163	U		
Sodium		29.3	U	29.3	U	29.3	U	29.3	U		
Thallium		0.143	U	0.437	J	0.436	J	0.362	J		
Vanadium		1.57	U	1.57	U	1.57	U	1.57	U		
Zinc		3.41	U	3.41	U	3.41	U	3.41	U		

Form 3
Blanks

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Instrument ID	: ICPMSQ		

		Initial Calibration Blank		Continuing Calibration Blank(s)						Preparation Blank	
Lab ID	:	R1845784-25		R1845784-19		R1845784-21		R1845784-23			
Date Analyzed	:	06/26/24 12:03		06/26/24 08:44		06/26/24 09:46		06/26/24 10:39			
Parameter		ug/l	Q	ug/l	Q	ug/l	Q	ug/l	Q		Q
Aluminum		3.27	U	3.27	U	3.27	U	3.27	U		
Antimony		0.429	U	0.986	J	0.978	J	0.934	J		
Arsenic		0.165	U	0.165	U	0.165	U	0.165	U		
Barium		0.173	U	0.173	U	0.173	U	0.173	U		
Beryllium		0.107	U	0.107	U	0.107	U	0.107	U		
Cadmium		0.0599	U	0.0599	U	0.0599	U	0.0599	U		
Calcium		39.4	U	39.4	U	39.4	U	39.4	U		
Chromium		0.178	U	0.178	U	0.178	U	0.178	U		
Cobalt		0.163	U	0.163	U	0.163	U	0.163	U		
Copper		0.384	U	0.384	U	0.384	U	0.384	U		
Iron		19.1	U	19.1	U	19.1	U	19.1	U		
Lead		0.343	U	0.343	U	0.343	U	0.343	U		
Magnesium		24.2	U	24.2	U	24.2	U	24.2	U		
Manganese		0.440	U	0.440	U	0.440	U	0.440	U		
Nickel		0.556	U	0.556	U	0.556	U	0.556	U		
Potassium		30.9	U	30.9	U	30.9	U	30.9	U		
Selenium		1.73	U	1.73	U	1.73	U	1.73	U		
Silver		0.163	U	0.163	U	0.163	U	0.163	U		
Sodium		29.3	U	29.3	U	29.3	U	29.3	U		
Thallium		0.333	J	0.281	J	0.143	U	0.143	U		
Vanadium		1.57	U	1.57	U	1.57	U	1.57	U		
Zinc		3.41	U	3.41	U	3.41	U	3.41	U		

Form 3
Blanks

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Instrument ID	: ICPMSQ		

	Initial Calibration Blank		Continuing Calibration Blank(s)						Preparation Blank	
Lab ID :			R1845784-28		R1845784-29		R1845784-31			
Date Analyzed:			06/26/24 12:27		06/26/24 12:35		06/26/24 13:32			
Parameter	ug/l	Q	ug/l	Q	ug/l	Q	ug/l	Q		Q
Aluminum			3.27	U	3.27	U	3.27	U		
Antimony			0.758	J	0.429	U	0.877	J		
Arsenic			0.539		0.165	U	0.165	U		
Barium			0.173	U	0.173	U	0.173	U		
Beryllium			0.107	U	0.107	U	0.107	U		
Cadmium			0.0599	U	0.0599	U	0.0599	U		
Calcium			39.4	U	39.4	U	39.4	U		
Chromium			0.178	U	0.178	U	0.178	U		
Cobalt			0.163	U	0.163	U	0.163	U		
Copper			0.384	U	0.384	U	0.384	U		
Iron			19.1	U	19.1	U	19.1	U		
Lead			0.343	U	0.343	U	0.343	U		
Magnesium			24.2	U	24.2	U	24.2	U		
Manganese			0.440	U	0.440	U	0.440	U		
Nickel			0.556	U	0.556	U	0.556	U		
Potassium			30.9	U	30.9	U	30.9	U		
Selenium			1.73	U	1.73	U	1.73	U		
Silver			0.163	U	0.163	U	0.163	U		
Sodium			29.3	U	29.3	U	29.3	U		
Thallium			0.251	J	0.143	U	0.313	J		
Vanadium			1.57	U	1.57	U	1.57	U		
Zinc			3.41	U	3.41	U	3.41	U		

Form 3
Blanks

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Instrument ID	: ICPMSQ		

	Initial Calibration Blank		Continuing Calibration Blank(s)						Preparation Blank	
Lab ID :			R1845784-33		R1845784-35		R1845784-37			
Date Analyzed:			06/26/24 14:32		06/26/24 15:33		06/26/24 16:39			
Parameter	ug/l	Q	ug/l	Q	ug/l	Q	ug/l	Q		Q
Aluminum			3.27	U	3.27	U	3.27	U		
Antimony			0.746	J	0.680	J	0.686	J		
Arsenic			0.165	U	0.165	U	0.165	U		
Barium			0.173	U	0.173	U	0.173	U		
Beryllium			0.107	U	0.107	U	0.107	U		
Cadmium			0.0599	U	0.0599	U	0.0599	U		
Calcium			39.4	U	39.4	U	39.4	U		
Chromium			0.178	U	0.178	U	0.991	J		
Cobalt			0.163	U	0.163	U	0.163	U		
Copper			0.384	U	0.384	U	0.384	U		
Iron			19.1	U	19.1	U	19.1	U		
Lead			0.343	U	0.343	U	0.343	U		
Magnesium			24.2	U	24.2	U	24.2	U		
Manganese			0.440	U	0.440	U	0.440	U		
Nickel			0.556	U	0.556	U	0.556	U		
Potassium			30.9	U	30.9	U	30.9	U		
Selenium			1.73	U	1.73	U	1.73	U		
Silver			0.163	U	0.163	U	0.163	U		
Sodium			29.3	U	29.3	U	29.3	U		
Thallium			0.280	J	0.274	J	0.352	J		
Vanadium			1.57	U	1.57	U	1.57	U		
Zinc			3.41	U	3.41	U	3.41	U		

Form 3
Blanks

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Instrument ID	: ICPMSQ		

	Initial Calibration Blank		Continuing Calibration Blank(s)						Preparation Blank	
Lab ID :			R1845784-39		R1845784-41					
Date Analyzed :			06/26/24 16:59		06/26/24 18:07					
Parameter	ug/l	Q	ug/l	Q	ug/l	Q	ug/l	Q		Q
Aluminum			3.27	U	3.27	U				
Antimony			0.716	J	0.700	J				
Arsenic			0.165	U	0.165	U				
Barium			0.173	U	0.173	U				
Beryllium			0.107	U	0.107	U				
Cadmium			0.0599	U	0.0599	U				
Calcium			39.4	U	39.4	U				
Chromium			0.178	U	0.178	U				
Cobalt			0.163	U	0.163	U				
Copper			0.384	U	0.384	U				
Iron			19.1	U	19.1	U				
Lead			0.343	U	0.343	U				
Magnesium			24.2	U	24.2	U				
Manganese			0.440	U	0.440	U				
Nickel			0.556	U	0.556	U				
Potassium			30.9	U	30.9	U				
Selenium			1.73	U	1.73	U				
Silver			0.163	U	0.163	U				
Sodium			29.3	U	29.3	U				
Thallium			0.225	J	0.266	J				
Vanadium			1.57	U	1.57	U				
Zinc			3.41	U	3.41	U				

Form 3
Blanks

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Instrument ID	: ICPMSQ		

	Initial Calibration Blank		Continuing Calibration Blank(s)						Preparation Blank	
Lab ID :	R1845784-2		R1845784-6		R1845784-8		R1845784-10		WG1939188-1	
Date Analyzed :	06/26/24 04:10		06/26/24 04:45		06/26/24 05:45		06/26/24 06:10		06/26/24 12:41	
Parameter	ug/l	Q	ug/l	Q	ug/l	Q	ug/l	Q	mg/l	Q
Aluminum	3.27	U	3.27	U	3.27	U	3.27	U	0.00327	U
Antimony	0.429	U	0.429	U	0.429	U	0.429	U	0.00042	U
Arsenic	0.165	U	0.165	U	0.165	U	0.165	U	0.00016	U
Barium	0.173	U	0.173	U	0.173	U	0.173	U	0.00017	U
Beryllium	0.107	U	0.107	U	0.107	U	0.107	U	0.00010	U
Cadmium	0.0599	U	0.0599	U	0.0599	U	0.0599	U	0.00005	U
Calcium	39.4	U	39.4	U	39.4	U	39.4	U	0.0394	U
Chromium	0.178	U	0.178	U	0.178	U	0.178	U	0.00017	U
Cobalt	0.163	U	0.163	U	0.163	U	0.163	U	0.00016	U
Copper	0.384	U	0.384	U	0.384	U	0.384	U	0.00038	U
Iron	19.1	U	19.1	U	19.1	U	19.1	U	0.0191	U
Lead	0.343	U	0.378	J	0.343	U	0.343	U	0.00034	U
Magnesium	24.2	U	24.2	U	24.2	U	24.2	U	0.0242	U
Manganese	0.440	U	0.440	U	0.440	U	0.440	U	0.00044	U
Nickel	0.556	U	0.556	U	0.556	U	0.556	U	0.00055	U
Potassium	30.9	U	30.9	U	30.9	U	30.9	U	0.0309	U
Selenium	1.73	U	1.73	U	1.73	U	1.73	U	0.00173	U
Silver	0.163	U	0.163	U	0.163	U	0.163	U	0.00016	U
Sodium	29.3	U	29.3	U	29.3	U	29.3	U	0.0293	U
Thallium	0.524	J	0.433	J	0.415	J	0.342	J	0.00014	U
Vanadium	1.57	U	1.57	U	1.57	U	1.57	U	0.00157	U
Zinc	3.41	U	3.41	U	3.41	U	3.41	U	0.00341	U

Form 3
Blanks

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Instrument ID	: ICPMSQ		

		Initial Calibration Blank		Continuing Calibration Blank(s)						Preparation Blank	
Lab ID	:	R1845784-3		R1845784-13		R1845784-15		R1845784-17			
Date Analyzed	:	06/26/24 04:18		06/26/24 07:12		06/26/24 07:28		06/26/24 08:29			
Parameter		ug/l	Q	ug/l	Q	ug/l	Q	ug/l	Q		Q
Aluminum		3.27	U	3.27	U	3.27	U	3.27	U		
Antimony		0.429	U	0.429	U	0.429	U	0.429	U		
Arsenic		0.165	U	0.165	U	0.165	U	0.165	U		
Barium		0.173	U	0.173	U	0.173	U	0.173	U		
Beryllium		0.107	U	0.107	U	0.107	U	0.107	U		
Cadmium		0.0599	U	0.0599	U	0.0599	U	0.0599	U		
Calcium		39.4	U	39.4	U	39.4	U	39.4	U		
Chromium		0.178	U	0.178	U	0.178	U	0.178	U		
Cobalt		0.163	U	0.163	U	0.163	U	0.163	U		
Copper		0.384	U	0.384	U	0.384	U	0.384	U		
Iron		19.1	U	19.1	U	19.1	U	19.1	U		
Lead		0.343	U	0.343	U	0.343	U	0.343	U		
Magnesium		24.2	U	24.2	U	24.2	U	24.2	U		
Manganese		0.440	U	0.440	U	0.440	U	0.440	U		
Nickel		0.556	U	0.556	U	0.556	U	0.556	U		
Potassium		30.9	U	30.9	U	30.9	U	30.9	U		
Selenium		1.73	U	1.73	U	1.73	U	1.73	U		
Silver		0.163	U	0.163	U	0.163	U	0.163	U		
Sodium		29.3	U	29.3	U	29.3	U	29.3	U		
Thallium		0.143	U	0.437	J	0.436	J	0.362	J		
Vanadium		1.57	U	1.57	U	1.57	U	1.57	U		
Zinc		3.41	U	3.41	U	3.41	U	3.41	U		

Form 3
Blanks

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Instrument ID	: ICPMSQ		

		Initial Calibration Blank		Continuing Calibration Blank(s)						Preparation Blank	
Lab ID	:	R1845784-25		R1845784-19		R1845784-21		R1845784-23			
Date Analyzed	:	06/26/24 12:03		06/26/24 08:44		06/26/24 09:46		06/26/24 10:39			
Parameter		ug/l	Q	ug/l	Q	ug/l	Q	ug/l	Q		Q
Aluminum		3.27	U	3.27	U	3.27	U	3.27	U		
Antimony		0.429	U	0.986	J	0.978	J	0.934	J		
Arsenic		0.165	U	0.165	U	0.165	U	0.165	U		
Barium		0.173	U	0.173	U	0.173	U	0.173	U		
Beryllium		0.107	U	0.107	U	0.107	U	0.107	U		
Cadmium		0.0599	U	0.0599	U	0.0599	U	0.0599	U		
Calcium		39.4	U	39.4	U	39.4	U	39.4	U		
Chromium		0.178	U	0.178	U	0.178	U	0.178	U		
Cobalt		0.163	U	0.163	U	0.163	U	0.163	U		
Copper		0.384	U	0.384	U	0.384	U	0.384	U		
Iron		19.1	U	19.1	U	19.1	U	19.1	U		
Lead		0.343	U	0.343	U	0.343	U	0.343	U		
Magnesium		24.2	U	24.2	U	24.2	U	24.2	U		
Manganese		0.440	U	0.440	U	0.440	U	0.440	U		
Nickel		0.556	U	0.556	U	0.556	U	0.556	U		
Potassium		30.9	U	30.9	U	30.9	U	30.9	U		
Selenium		1.73	U	1.73	U	1.73	U	1.73	U		
Silver		0.163	U	0.163	U	0.163	U	0.163	U		
Sodium		29.3	U	29.3	U	29.3	U	29.3	U		
Thallium		0.333	J	0.281	J	0.143	U	0.143	U		
Vanadium		1.57	U	1.57	U	1.57	U	1.57	U		
Zinc		3.41	U	3.41	U	3.41	U	3.41	U		

Form 3
Blanks

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Instrument ID	: ICPMSQ		

	Initial Calibration Blank		Continuing Calibration Blank(s)						Preparation Blank	
Lab ID :			R1845784-28		R1845784-29		R1845784-31			
Date Analyzed:			06/26/24 12:27		06/26/24 12:35		06/26/24 13:32			
Parameter	ug/l	Q	ug/l	Q	ug/l	Q	ug/l	Q		Q
Aluminum			3.27	U	3.27	U	3.27	U		
Antimony			0.758	J	0.429	U	0.877	J		
Arsenic			0.539		0.165	U	0.165	U		
Barium			0.173	U	0.173	U	0.173	U		
Beryllium			0.107	U	0.107	U	0.107	U		
Cadmium			0.0599	U	0.0599	U	0.0599	U		
Calcium			39.4	U	39.4	U	39.4	U		
Chromium			0.178	U	0.178	U	0.178	U		
Cobalt			0.163	U	0.163	U	0.163	U		
Copper			0.384	U	0.384	U	0.384	U		
Iron			19.1	U	19.1	U	19.1	U		
Lead			0.343	U	0.343	U	0.343	U		
Magnesium			24.2	U	24.2	U	24.2	U		
Manganese			0.440	U	0.440	U	0.440	U		
Nickel			0.556	U	0.556	U	0.556	U		
Potassium			30.9	U	30.9	U	30.9	U		
Selenium			1.73	U	1.73	U	1.73	U		
Silver			0.163	U	0.163	U	0.163	U		
Sodium			29.3	U	29.3	U	29.3	U		
Thallium			0.251	J	0.143	U	0.313	J		
Vanadium			1.57	U	1.57	U	1.57	U		
Zinc			3.41	U	3.41	U	3.41	U		

Form 3
Blanks

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Instrument ID	: ICPMSQ		

	Initial Calibration Blank		Continuing Calibration Blank(s)						Preparation Blank	
Lab ID :			R1845784-33							
Date Analyzed :			06/26/24 14:32							
Parameter	ug/l	Q	ug/l	Q	ug/l	Q	ug/l	Q		Q
Aluminum			3.27	U						
Antimony			0.746	J						
Arsenic			0.165	U						
Barium			0.173	U						
Beryllium			0.107	U						
Cadmium			0.0599	U						
Calcium			39.4	U						
Chromium			0.178	U						
Cobalt			0.163	U						
Copper			0.384	U						
Iron			19.1	U						
Lead			0.343	U						
Magnesium			24.2	U						
Manganese			0.440	U						
Nickel			0.556	U						
Potassium			30.9	U						
Selenium			1.73	U						
Silver			0.163	U						
Sodium			29.3	U						
Thallium			0.280	J						
Vanadium			1.57	U						
Zinc			3.41	U						

Form 4a
Interference Check Sample

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Instrument ID	: ICPMSQ	**Concentration Units**	: ug/l

	True		Initial Found				Final Found			
Lab ID :			R1845784-4				R1845784-26			
Analysis Date :			06/26/24 04:26				06/26/24 12:08			
Analyte	**Sol. A**	**Sol. AB**	**Sol. A**	**%R**	**Sol. AB**	**%R**	**Sol. A**	**%R**	**Sol. AB**	**%R**
Aluminum	100000		91800	92			91600	92		
Antimony			0.284				0.0860			
Arsenic			-0.150				-0.0105			
Barium			1.28				1.35			
Beryllium			0.0251				0.0278			
Cadmium			0.317				0.324			
Calcium	300000		302000	101			281000	94		
Chromium			1.75				1.60			
Cobalt			2.04				2.11			
Copper			0.904				0.983			
Iron	250000		214000	86			233000	93		
Lead			1.61				1.55			
Magnesium	100000		95000	95			93000	93		
Manganese			6.12				4.70			
Nickel			2.81				2.43			
Potassium	100000		89900	90			91800	92		
Selenium			3.69				3.93			
Silver			0.0257				0.0178			
Sodium	250000		230000	92			226000	90		
Thallium			0.0876				0.0998			
Vanadium			0.0291				0.0251			
Zinc			2.54				2.47			

Acceptance Criteria: Methods 200.7, 200.8, 6010, 6020

ICSA: 80-120%

ICSAB: 80-120%

Form 4a
Interference Check Sample

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Instrument ID	: ICPMSQ	**Concentration Units**	: ug/l

	True		Initial Found				Final Found			
Lab ID :			R1845784-4				R1845784-26			
Analysis Date :			06/26/24 04:26				06/26/24 12:08			
Analyte	**Sol. A**	**Sol. AB**	**Sol. A**	**%R**	**Sol. AB**	**%R**	**Sol. A**	**%R**	**Sol. AB**	**%R**
Aluminum	100000		91800	92			91600	92		
Antimony			0.284				0.0860			
Arsenic			-0.150				-0.0105			
Barium			1.28				1.35			
Beryllium			0.0251				0.0278			
Cadmium			0.317				0.324			
Calcium	300000		302000	101			281000	94		
Chromium			1.75				1.60			
Cobalt			2.04				2.11			
Copper			0.904				0.983			
Iron	250000		214000	86			233000	93		
Lead			1.61				1.55			
Magnesium	100000		95000	95			93000	93		
Manganese			6.12				4.70			
Nickel			2.81				2.43			
Potassium	100000		89900	90			91800	92		
Selenium			3.69				3.93			
Silver			0.0257				0.0178			
Sodium	250000		230000	92			226000	90		
Thallium			0.0876				0.0998			
Vanadium			0.0291				0.0251			
Zinc			2.54				2.47			

Acceptance Criteria: Methods 200.7, 200.8, 6010, 6020

ICSA: 80-120%

ICSAB: 80-120%

Form 5a
Matrix Spike

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Client Sample ID	: MW-6B	**Matrix**	: WATER
Lab Sample ID	: L2434679-03		
Matrix Spike	: WG1939202-3	**MS Analysis Date**	: 06/26/24 16:15
Matrix Spike Dup	: WG1939202-4	**MSD Analysis Date**	: 06/26/24 16:20

		Matrix Spike Sample				Matrix Spike Duplicate						
Parameter	Sample Conc. (mg/l)	Spike Added (mg/l)	Spike Conc. (mg/l)	%R		Spike Added (mg/l)	Spike Conc. (mg/l)	%R		RPD	Recovery Limits	RPD Limit
Aluminum, Dissolved	ND	2	1.92	96		2	1.96	98		2	75-125	20
Antimony, Dissolved	ND	0.5	0.5106	102		0.5	0.5258	105		3	75-125	20
Arsenic, Dissolved	ND	0.12	0.1222	102		0.12	0.1228	102		0	75-125	20
Barium, Dissolved	0.05090	2	2.182	106		2	2.208	108		1	75-125	20
Beryllium, Dissolved	ND	0.05	0.05354	107		0.05	0.05318	106		1	75-125	20
Cadmium, Dissolved	ND	0.053	0.05268	99		0.053	0.05517	104		5	75-125	20
Calcium, Dissolved	45.4	10	52.5	71	Q	10	52.8	74	Q	1	75-125	20
Chromium, Dissolved	0.00027J	0.2	0.1944	97		0.2	0.1926	96		1	75-125	20
Cobalt, Dissolved	ND	0.5	0.5022	100		0.5	0.5101	102		2	75-125	20
Copper, Dissolved	0.00043J	0.25	0.2543	102		0.25	0.2504	100		2	75-125	20
Iron, Dissolved	ND	1	1.01	101		1	1.03	103		2	75-125	20
Lead, Dissolved	ND	0.53	0.5966	112		0.53	0.5971	113		0	75-125	20
Magnesium, Dissolved	10.3	10	20.1	98		10	20.1	98		0	75-125	20
Manganese, Dissolved	0.06653	0.5	0.5282	92		0.5	0.5358	94		1	75-125	20
Nickel, Dissolved	ND	0.5	0.4843	97		0.5	0.4790	96		1	75-125	20
Potassium, Dissolved	4.11	10	14.4	103		10	14.0	99		3	75-125	20
Selenium, Dissolved	ND	0.12	0.136	113		0.12	0.123	102		10	75-125	20
Silver, Dissolved	ND	0.05	0.05133	103		0.05	0.05230	105		2	75-125	20
Sodium, Dissolved	12.0	10	21.9	99		10	21.7	97		1	75-125	20
Thallium, Dissolved	ND	0.12	0.1309	109		0.12	0.1326	110		1	75-125	20
Vanadium, Dissolved	ND	0.5	0.4971	99		0.5	0.4920	98		1	75-125	20
Zinc, Dissolved	ND	0.5	0.5143	103		0.5	0.5082	102		1	75-125	20

Form 5a
Matrix Spike

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Client Sample ID	: MW-6B	**Matrix**	: WATER
Lab Sample ID	: L2434679-03		
Matrix Spike	: WG1939188-3	**MS Analysis Date**	: 06/26/24 13:09
Matrix Spike Dup	: WG1939188-4	**MSD Analysis Date**	: 06/26/24 13:13

		Matrix Spike Sample			Matrix Spike Duplicate					
Parameter	Sample Conc. (mg/l)	Spike Added (mg/l)	Spike Conc. (mg/l)	%R	Spike Added (mg/l)	Spike Conc. (mg/l)	%R	RPD	Recovery Limits	RPD Limit
Aluminum, Total	0.00904J	2	1.92	96	2	1.96	98	2	75-125	20
Antimony, Total	ND	0.5	0.4874	97	0.5	0.4688	94	4	75-125	20
Arsenic, Total	ND	0.12	0.1152	96	0.12	0.1165	97	1	75-125	20
Barium, Total	0.04582	2	2.119	104	2	2.082	102	2	75-125	20
Beryllium, Total	ND	0.05	0.05076	102	0.05	0.04804	96	6	75-125	20
Cadmium, Total	ND	0.053	0.04986	94	0.053	0.04736	89	5	75-125	20
Calcium, Total	43.1	10	52.8	97	10	50.8	77	4	75-125	20
Chromium, Total	0.01304	0.2	0.1893	88	0.2	0.1881	88	1	75-125	20
Cobalt, Total	0.00036J	0.5	0.4814	96	0.5	0.4640	93	4	75-125	20
Copper, Total	0.00130	0.25	0.2430	97	0.25	0.2259	90	7	75-125	20
Iron, Total	0.155	1	1.06	90	1	1.08	92	2	75-125	20
Lead, Total	ND	0.53	0.5562	105	0.53	0.5264	99	6	75-125	20
Magnesium, Total	9.72	10	19.4	97	10	19.6	99	1	75-125	20
Manganese, Total	0.07041	0.5	0.5422	94	0.5	0.5232	90	4	75-125	20
Nickel, Total	0.01224	0.5	0.4629	90	0.5	0.4477	87	3	75-125	20
Potassium, Total	3.81	10	14.0	102	10	13.7	99	2	75-125	20
Selenium, Total	ND	0.12	0.131	109	0.12	0.124	103	5	75-125	20
Silver, Total	ND	0.05	0.04800	96	0.05	0.04605	92	4	75-125	20
Sodium, Total	11.4	10	21.6	102	10	21.1	97	2	75-125	20
Thallium, Total	ND	0.12	0.1238	103	0.12	0.1175	98	5	75-125	20
Vanadium, Total	ND	0.5	0.4599	92	0.5	0.4541	91	1	75-125	20
Zinc, Total	ND	0.5	0.4703	94	0.5	0.4610	92	2	75-125	20

Form 7
Laboratory Control Sample

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Client Sample ID	: NA	**Matrix**	: WATER
Lab Sample ID	: WG1939202-2	**LCS Analysis Date**	: 06/26/24 14:46
Dup Sample ID	:	**LCSD Analysis Date**	:

	Laboratory Control Sample			Laboratory Control Duplicate					
Parameter	True (mg/l)	Found (mg/l)	%R	True (mg/l)	Found (mg/l)	%R	RPD	Recovery Limits	RPD Limit
Aluminum, Dissolved	2.00	1.84	92.					80-120	20
Antimony, Dissolved	0.500	0.429	86.					80-120	20
Arsenic, Dissolved	0.120	0.116	96.					80-120	20
Barium, Dissolved	2.00	2.05	102.					80-120	20
Beryllium, Dissolved	0.0500	0.0526	105.					80-120	20
Cadmium, Dissolved	0.0530	0.0526	99.					80-120	20
Calcium, Dissolved	10.0	10.0	100.					80-120	20
Chromium, Dissolved	0.200	0.198	99.					80-120	20
Cobalt, Dissolved	0.500	0.494	99.					80-120	20
Copper, Dissolved	0.250	0.246	98.					80-120	20
Iron, Dissolved	1.00	0.953	95.					80-120	20
Lead, Dissolved	0.530	0.570	108.					80-120	20
Magnesium, Dissolved	10.0	9.55	96.					80-120	20
Manganese, Dissolved	0.500	0.466	93.					80-120	20
Nickel, Dissolved	0.500	0.466	93.					80-120	20
Potassium, Dissolved	10.0	9.60	96.					80-120	20
Selenium, Dissolved	0.120	0.120	100.					80-120	20
Silver, Dissolved	0.0500	0.0501	100.					80-120	20
Sodium, Dissolved	10.0	9.44	94.					80-120	20
Thallium, Dissolved	0.120	0.128	106.					80-120	20
Vanadium, Dissolved	0.500	0.497	99.					80-120	20
Zinc, Dissolved	0.500	0.499	100.					80-120	20

Form 7
Laboratory Control Sample

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Client Sample ID	: NA	**Matrix**	: WATER
Lab Sample ID	: WG1939188-2	**LCS Analysis Date**	: 06/26/24 12:45
Dup Sample ID	:	**LCSD Analysis Date**	:

	Laboratory Control Sample			Laboratory Control Duplicate					
Parameter	True (mg/l)	Found (mg/l)	%R	True (mg/l)	Found (mg/l)	%R	RPD	Recovery Limits	RPD Limit
Aluminum, Total	2.00	2.01	100.					80-120	20
Antimony, Total	0.500	0.420	84.					80-120	20
Arsenic, Total	0.120	0.116	97.					80-120	20
Barium, Total	2.00	2.07	104.					80-120	20
Beryllium, Total	0.0500	0.0518	104.					80-120	20
Cadmium, Total	0.0530	0.0522	98.					80-120	20
Calcium, Total	10.0	9.39	94.					80-120	20
Chromium, Total	0.200	0.185	93.					80-120	20
Cobalt, Total	0.500	0.490	98.					80-120	20
Copper, Total	0.250	0.246	98.					80-120	20
Iron, Total	1.00	1.11	111.					80-120	20
Lead, Total	0.530	0.535	101.					80-120	20
Magnesium, Total	10.0	9.74	97.					80-120	20
Manganese, Total	0.500	0.478	96.					80-120	20
Nickel, Total	0.500	0.470	94.					80-120	20
Potassium, Total	10.0	10.4	104.					80-120	20
Selenium, Total	0.120	0.116	97.					80-120	20
Silver, Total	0.0500	0.0498	100.					80-120	20
Sodium, Total	10.0	9.86	99.					80-120	20
Thallium, Total	0.120	0.119	99.					80-120	20
Vanadium, Total	0.500	0.490	98.					80-120	20
Zinc, Total	0.500	0.485	97.					80-120	20

Form 12
Preparation Log

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Matrix	: WATER	**Prep Method**	: EPA 3005A

Sample Number	Preparation Date	Weight (gram)	Volume (mL)
L2434679-01	06/26/24 03:07	-	50
L2434679-02	06/26/24 03:07	-	50
L2434679-03	06/26/24 03:07	-	50
L2434679-04	06/26/24 03:07	-	50
L2434679-05	06/26/24 03:07	-	50
L2434679-06	06/26/24 03:07	-	50
L2434679-07	06/26/24 03:07	-	50
L2434679-08	06/26/24 03:07	-	50
L2434679-09	06/26/24 03:07	-	50
L2434679-10	06/26/24 03:07	-	50
L2434679-11	06/26/24 03:07	-	50
L2434679-12	06/26/24 03:07	-	50
L2434679-14	06/26/24 03:07	-	50
WG1939202-1	06/26/24 03:07	-	50
WG1939202-2	06/26/24 03:07	-	50
WG1939202-3	06/26/24 03:07	-	50
WG1939202-4	06/26/24 03:07	-	50

Form 12
Preparation Log

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Matrix	: WATER	**Prep Method**	: EPA 3005A

Sample Number	Preparation Date	Weight (gram)	Volume (mL)
L2434679-01	06/25/24 17:30	-	50
L2434679-02	06/25/24 17:30	-	50
L2434679-03	06/25/24 17:30	-	50
L2434679-04	06/25/24 17:30	-	50
L2434679-05	06/25/24 17:30	-	50
L2434679-06	06/25/24 17:30	-	50
L2434679-07	06/25/24 17:30	-	50
L2434679-08	06/25/24 17:30	-	50
L2434679-09	06/25/24 17:30	-	50
L2434679-10	06/25/24 17:30	-	50
L2434679-11	06/25/24 17:30	-	50
L2434679-12	06/25/24 17:30	-	50
L2434679-14	06/25/24 17:30	-	50
WG1939188-1	06/25/24 17:30	-	50
WG1939188-2	06/25/24 17:30	-	50
WG1939188-3	06/25/24 17:30	-	50
WG1939188-4	06/25/24 17:30	-	50

Form 13
Analysis Run Log

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Instrument ID	: ICPMSQ	**Analysis Method**	: 1,6020B
Start Date	: 06/26/24 03:12	**End Date**	: 06/26/24 18:07

Sample Number	Dilution Factor	Analysis Time	Aluminum, Dissolved	Antimony, Dissolved	Arsenic, Dissolved	Barium, Dissolved	Beryllium, Dissolved	Cadmium, Dissolved	Calcium, Dissolved	Chromium, Dissolved	Cobalt, Dissolved	Copper, Dissolved	Iron, Dissolved	Lead, Dissolved	Magnesium, Dissolved	Manganese, Dissolved	Nickel, Dissolved	Potassium, Dissolved	Selenium, Dissolved	Silver, Dissolved	Sodium, Dissolved	Thallium, Dissolved	Vanadium, Dissolved	Zinc, Dissolved
R1845784-11 TUNE		03:12:00																						
R1845784-1 ICV	1	04:05:36	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1845784-2 ICB	1	04:10:16	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1845784-3 ICB	1	04:18:57	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1845784-4 ICSA	1	04:26:42	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1845784-5 CCV	1	04:40:42	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1845784-6 CCB	1	04:45:24	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1845784-7 CCV	1	05:40:47	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1845784-8 CCB	1	05:45:29	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1845784-9 CCV	1	06:04:20	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1845784-10 CCB	1	06:10:13	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1845784-12 CCV	1	07:07:47	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1845784-13 CCB	1	07:12:29	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1845784-14 CCV	1	07:23:23	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1845784-15 CCB	1	07:28:05	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1845784-16 CCV	1	08:25:12	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1845784-17 CCB	1	08:29:55	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1845784-18 CCV	1	08:40:12	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1845784-19 CCB	1	08:44:55	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1845784-20 CCV	1	09:42:16	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1845784-21 CCB	1	09:46:59	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1845784-22 CCV	1	10:34:19	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1845784-23 CCB	1	10:39:02	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1845784-24 ICV	1	11:59:17	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1845784-25 ICB	1	12:03:58	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1845784-26 ICSA	1	12:08:45	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1845784-27 CCV	1	12:22:46	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X

Form 13
Analysis Run Log

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Instrument ID	: ICPMSQ	**Analysis Method**	: 1,6020B
Start Date	: 06/26/24 03:12	**End Date**	: 06/26/24 18:07

Sample Number	Dilution Factor	Analysis Time	Aluminum, Dissolved	Antimony, Dissolved	Arsenic, Dissolved	Barium, Dissolved	Beryllium, Dissolved	Cadmium, Dissolved	Calcium, Dissolved	Chromium, Dissolved	Cobalt, Dissolved	Copper, Dissolved	Iron, Dissolved	Lead, Dissolved	Magnesium, Dissolved	Manganese, Dissolved	Nickel, Dissolved	Potassium, Dissolved	Selenium, Dissolved	Silver, Dissolved	Sodium, Dissolved	Thallium, Dissolved	Vanadium, Dissolved	Zinc, Dissolved
R1845784-28 CCB	1	12:27:27	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1845784-29 CCB	1	12:35:32	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1845784-30 CCV	1	13:27:43	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1845784-31 CCB	1	13:32:25	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1845784-32 CCV	1	14:27:45	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1845784-33 CCB	1	14:32:28	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
WG1939202-1 BLANK	1	14:40:53	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
WG1939202-2 LCS	10	14:46:49	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
L2434679-01	1	15:19:22	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
L2434679-02	1	15:24:01	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1845784-34 CCV	1	15:28:41	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1845784-35 CCB	1	15:33:23	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
L2434679-04	1	15:47:52	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
L2434679-05	1	15:52:31	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
L2434679-06	1	15:57:10	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
L2434679-07	1	16:01:50	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
L2434679-08	1	16:06:30	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
L2434679-03	1	16:11:10	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
WG1939202-3 MS	10	16:15:49	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
WG1939202-4 MSD	10	16:20:29	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1845784-36 CCV	1	16:34:26	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1845784-37 CCB	1	16:39:09	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1845784-38 CCV	1	16:54:17	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1845784-39 CCB	1	16:59:42	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
L2434679-09	1	17:09:40	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
L2434679-10	1	17:14:19	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
L2434679-11	1	17:18:59	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X

Form 13
Analysis Run Log

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Instrument ID	: ICPMSQ	**Analysis Method**	: 1,6020B
Start Date	: 06/26/24 03:12	**End Date**	: 06/26/24 18:07

Sample Number	Dilution Factor	Analysis Time	Aluminum, Dissolved	Antimony, Dissolved	Arsenic, Dissolved	Barium, Dissolved	Beryllium, Dissolved	Cadmium, Dissolved	Calcium, Dissolved	Chromium, Dissolved	Cobalt, Dissolved	Copper, Dissolved	Iron, Dissolved	Lead, Dissolved	Magnesium, Dissolved	Manganese, Dissolved	Nickel, Dissolved	Potassium, Dissolved	Selenium, Dissolved	Silver, Dissolved	Sodium, Dissolved	Thallium, Dissolved	Vanadium, Dissolved	Zinc, Dissolved
L2434679-12	1	17:23:39	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
L2434679-14	1	17:28:18	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1845784-40 CCV	1	18:03:00	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1845784-41 CCB	1	18:07:43	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X

Form 13
Analysis Run Log

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Instrument ID	: ICPMSQ	**Analysis Method**	: 1,6020B
Start Date	: 06/26/24 03:12	**End Date**	: 06/26/24 14:32

Sample Number	Dilution Factor	Analysis Time	Aluminum, Total	Antimony, Total	Arsenic, Total	Barium, Total	Beryllium, Total	Cadmium, Total	Calcium, Total	Chromium, Total	Cobalt, Total	Copper, Total	Iron, Total	Lead, Total	Magnesium, Total	Manganese, Total	Nickel, Total	Potassium, Total	Selenium, Total	Silver, Total	Sodium, Total	Thallium, Total	Vanadium, Total	Zinc, Total
R1845784-11 TUNE		03:12:00																						
R1845784-1 ICV	1	04:05:36	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1845784-2 ICB	1	04:10:16	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1845784-3 ICB	1	04:18:57	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1845784-4 ICSA	1	04:26:42	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1845784-5 CCV	1	04:40:42	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1845784-6 CCB	1	04:45:24	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1845784-7 CCV	1	05:40:47	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1845784-8 CCB	1	05:45:29	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1845784-9 CCV	1	06:04:20	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1845784-10 CCB	1	06:10:13	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1845784-12 CCV	1	07:07:47	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1845784-13 CCB	1	07:12:29	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1845784-14 CCV	1	07:23:23	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1845784-15 CCB	1	07:28:05	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1845784-16 CCV	1	08:25:12	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1845784-17 CCB	1	08:29:55	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1845784-18 CCV	1	08:40:12	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1845784-19 CCB	1	08:44:55	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1845784-20 CCV	1	09:42:16	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1845784-21 CCB	1	09:46:59	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1845784-22 CCV	1	10:34:19	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1845784-23 CCB	1	10:39:02	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1845784-24 ICV	1	11:59:17	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1845784-25 ICB	1	12:03:58	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1845784-26 ICSA	1	12:08:45	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1845784-27 CCV	1	12:22:46	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X

Form 13
Analysis Run Log

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Instrument ID	: ICPMSQ	**Analysis Method**	: 1,6020B
Start Date	: 06/26/24 03:12	**End Date**	: 06/26/24 14:32

Sample Number	Dilution Factor	Analysis Time	Aluminum, Total	Antimony, Total	Arsenic, Total	Barium, Total	Beryllium, Total	Cadmium, Total	Calcium, Total	Chromium, Total	Cobalt, Total	Copper, Total	Iron, Total	Lead, Total	Magnesium, Total	Manganese, Total	Nickel, Total	Potassium, Total	Selenium, Total	Silver, Total	Sodium, Total	Thallium, Total	Vanadium, Total	Zinc, Total
R1845784-28 CCB	1	12:27:27	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1845784-29 CCB	1	12:35:32	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
WG1939188-1 BLANK	1	12:41:19	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
WG1939188-2 LCS	10	12:45:58	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
L2434679-01	1	12:50:38	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
L2434679-02	1	12:55:16	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
L2434679-04	1	12:59:54	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
WG1939188-3 MS	10	13:09:12	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
WG1939188-4 MSD	10	13:13:50	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1845784-30 CCV	1	13:27:43	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1845784-31 CCB	1	13:32:25	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
L2434679-03	1	13:41:14	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
L2434679-05	1	13:45:54	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
L2434679-06	1	13:50:33	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
L2434679-07	1	13:55:12	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
L2434679-08	1	13:59:51	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
L2434679-09	1	14:04:31	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
L2434679-10	1	14:09:11	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
L2434679-11	1	14:13:49	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
L2434679-12	1	14:18:28	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
L2434679-14	1	14:23:07	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1845784-32 CCV	1	14:27:45	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1845784-33 CCB	1	14:32:28	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X

Form 14
ICP-MS Tune

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Lab Sample ID	: R1845784-11	**Analysis Date**	: 06/26/24 03:12
ICP-MS Instrument	: iCAP Q		

Mass Element	Avg Measured Mass (amu)	Avg. Peak Width at 10% Peak Height (amu)	%RSD
59 Co	58.9438	0.705	0.6
115 In	114.9068	0.73	1.6
7 Li	7.0471	0.693	1.7
238 U	238.0795	0.697	1.4

Form 14
ICP-MS Tune

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Lab Sample ID	: R1845784-11	**Analysis Date**	: 06/26/24 03:12
ICP-MS Instrument	: iCAP Q		

Mass Element	Avg Measured Mass (amu)	Avg. Peak Width at 10% Peak Height (amu)	%RSD
59 Co	58.9438	0.705	0.6
115 In	114.9068	0.73	1.6
7 Li	7.0471	0.693	1.7
238 U	238.0795	0.697	1.4

Form 15
ICP-MS Internal Standards Relative Intensity Summary

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Instrument ID	: ICPMSQ	**Analysis Method**	: 1,6020B
Start Date	: 06/26/24	**End Date**	: 06/26/24

Sample #	Time	Internal Standards %RI For:			
		Lithium	Scandium	Ge	In
R1845784-1 ICV	04:05:36	89	95	98	102
R1845784-2 ICB	04:10:16	90	92	95	101
R1845784-3 ICB	04:18:57	92	94	96	102
R1845784-4 ICSA	04:26:42	69	86	97	103
R1845784-5 CCV	04:40:42	79	94	98	110
R1845784-6 CCB	04:45:24	77	84	93	102
R1845784-7 CCV	05:40:47	91	95	98	111
R1845784-8 CCB	05:45:29	90	86	95	108
R1845784-9 CCV	06:04:20	86	90	97	109
R1845784-10 CCB	06:10:13	87	85	100	114
R1845784-12 CCV	07:07:47	85	91	97	110
R1845784-13 CCB	07:12:29	84	84	92	108
R1845784-14 CCV	07:23:23	86	91	101	115
R1845784-15 CCB	07:28:05	84	83	98	112
R1845784-16 CCV	08:25:12	88	92	99	110
R1845784-17 CCB	08:29:55	87	85	98	106
R1845784-18 CCV	08:40:12	91	95	98	108
R1845784-19 CCB	08:44:55	87	85	100	110
R1845784-20 CCV	09:42:16	88	90	106	115
R1845784-21 CCB	09:46:59	86	83	101	113
R1845784-22 CCV	10:34:19	90	92	105	113
R1845784-23 CCB	10:39:02	87	86	105	114
R1845784-24 ICV	11:59:17	93	103	102	98
R1845784-25 ICB	12:03:58	92	96	99	100
R1845784-26 ICSA	12:08:45	71	95	101	95
R1845784-27 CCV	12:22:46	88	107	106	102
R1845784-28 CCB	12:27:27	87	95	101	103

Form 15
ICP-MS Internal Standards Relative Intensity Summary

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Instrument ID	: ICPMSQ	**Analysis Method**	: 1,6020B
Start Date	: 06/26/24	**End Date**	: 06/26/24

Sample #	Time	Internal Standards %RI For:			
		Lithium	Scandium	Ge	In
R1845784-29 CCB	12:35:32	89	96	101	103
R1845784-30 CCV	13:27:43	89	103	105	106
R1845784-31 CCB	13:32:25	87	89	103	105
R1845784-32 CCV	14:27:45	90	104	107	104
R1845784-33 CCB	14:32:28	88	90	100	101
WG1939202-1 BLANK	14:40:53	97	97	105	112
WG1939202-2 LCS	14:46:49	92	94	103	107
L2434679-01	15:19:22	97	99	106	114
L2434679-02	15:24:01	95	96	105	111
R1845784-34 CCV	15:28:41	90	100	103	110
R1845784-35 CCB	15:33:23	88	88	103	111
L2434679-04	15:47:52	101	122	110	140
L2434679-05	15:52:31	98	102	114	114
L2434679-06	15:57:10	96	99	108	115
L2434679-07	16:01:50	96	98	107	111
L2434679-08	16:06:30	98	99	108	114
L2434679-03	16:11:10	97	99	100	108
WG1939202-3 MS	16:15:49	93	97	104	109
WG1939202-4 MSD	16:20:29	92	96	104	107
R1845784-36 CCV	16:34:26	90	100	104	109
R1845784-37 CCB	16:39:09	88	87	100	109
R1845784-38 CCV	16:54:17	94	104	105	117
R1845784-39 CCB	16:59:42	90	90	102	115
L2434679-09	17:09:40	97	97	99	109
L2434679-10	17:14:19	94	96	106	108
L2434679-11	17:18:59	94	96	102	110
L2434679-12	17:23:39	97	99	107	112

Form 15
ICP-MS Internal Standards Relative Intensity Summary

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Instrument ID	: ICPMSQ	**Analysis Method**	: 1,6020B
Start Date	: 06/26/24	**End Date**	: 06/26/24

Sample #	Time	Internal Standards %RI For:			
		Lithium	Scandium	Ge	In
L2434679-14	17:28:18	96	98	110	117
R1845784-40 CCV	18:03:00	95	109	104	113
R1845784-41 CCB	18:07:43	90	90	102	107

Form 15
ICP-MS Internal Standards Relative Intensity Summary

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Instrument ID	: ICPMSQ	**Analysis Method**	: 1,6020B
Start Date	: 06/26/24	**End Date**	: 06/26/24

Sample #	Time	Internal Standards %RI For:			
		Lithium	Scandium	Ge	In
R1845784-1 ICV	04:05:36	89	95	98	102
R1845784-2 ICB	04:10:16	90	92	95	101
R1845784-3 ICB	04:18:57	92	94	96	102
R1845784-4 ICSA	04:26:42	69	86	97	103
R1845784-5 CCV	04:40:42	79	94	98	110
R1845784-6 CCB	04:45:24	77	84	93	102
R1845784-7 CCV	05:40:47	91	95	98	111
R1845784-8 CCB	05:45:29	90	86	95	108
R1845784-9 CCV	06:04:20	86	90	97	109
R1845784-10 CCB	06:10:13	87	85	100	114
R1845784-12 CCV	07:07:47	85	91	97	110
R1845784-13 CCB	07:12:29	84	84	92	108
R1845784-14 CCV	07:23:23	86	91	101	115
R1845784-15 CCB	07:28:05	84	83	98	112
R1845784-16 CCV	08:25:12	88	92	99	110
R1845784-17 CCB	08:29:55	87	85	98	106
R1845784-18 CCV	08:40:12	91	95	98	108
R1845784-19 CCB	08:44:55	87	85	100	110
R1845784-20 CCV	09:42:16	88	90	106	115
R1845784-21 CCB	09:46:59	86	83	101	113
R1845784-22 CCV	10:34:19	90	92	105	113
R1845784-23 CCB	10:39:02	87	86	105	114
R1845784-24 ICV	11:59:17	93	103	102	98
R1845784-25 ICB	12:03:58	92	96	99	100
R1845784-26 ICSA	12:08:45	71	95	101	95
R1845784-27 CCV	12:22:46	88	107	106	102
R1845784-28 CCB	12:27:27	87	95	101	103

Form 15
ICP-MS Internal Standards Relative Intensity Summary

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Instrument ID	: ICPMSQ	**Analysis Method**	: 1,6020B
Start Date	: 06/26/24	**End Date**	: 06/26/24

Sample #	Time	Internal Standards %RI For:			
		Lithium	Scandium	Ge	In
R1845784-29 CCB	12:35:32	89	96	101	103
WG1939188-1 BLANK	12:41:19	94	97	103	101
WG1939188-2 LCS	12:45:58	89	97	108	106
L2434679-01	12:50:38	91	99	109	108
L2434679-02	12:55:16	89	96	103	109
L2434679-04	12:59:54	94	101	105	109
WG1939188-3 MS	13:09:12	93	99	105	102
WG1939188-4 MSD	13:13:50	91	99	106	107
R1845784-30 CCV	13:27:43	89	103	105	106
R1845784-31 CCB	13:32:25	87	89	103	105
L2434679-03	13:41:14	97	109	105	117
L2434679-05	13:45:54	96	100	106	111
L2434679-06	13:50:33	95	100	106	108
L2434679-07	13:55:12	96	100	105	110
L2434679-08	13:59:51	96	98	107	108
L2434679-09	14:04:31	96	101	107	110
L2434679-10	14:09:11	93	96	104	108
L2434679-11	14:13:49	94	97	108	108
L2434679-12	14:18:28	97	101	104	107
L2434679-14	14:23:07	95	100	106	103
R1845784-32 CCV	14:27:45	90	104	107	104
R1845784-33 CCB	14:32:28	88	90	100	101

Date Created: 01/22/21
Created By: Jason Hebert
File: PM9836-1
Page: 1

METALS by 6020B (WATER)

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria	Holding Time	Container/Sample Preservation
Aluminum, Total	7429-90-5	0.01	0.00327	mg/l	80-120		75-125	20	20		180 days	1 - Plastic 500ml HNO3 preserved
Antimony, Total	7440-36-0	0.004	0.000429	mg/l	80-120		75-125	20	20		180 days	1 - Plastic 500ml HNO3 preserved
Arsenic, Total	7440-38-2	0.0005	0.000165	mg/l	80-120		75-125	20	20		180 days	1 - Plastic 500ml HNO3 preserved
Barium, Total	7440-39-3	0.0005	0.000173	mg/l	80-120		75-125	20	20		180 days	1 - Plastic 500ml HNO3 preserved
Beryllium, Total	7440-41-7	0.0005	0.000107	mg/l	80-120		75-125	20	20		180 days	1 - Plastic 500ml HNO3 preserved
Cadmium, Total	7440-43-9	0.0002	0.0000599	mg/l	80-120		75-125	20	20		180 days	1 - Plastic 500ml HNO3 preserved
Calcium, Total	7440-70-2	0.1	0.0394	mg/l	80-120		75-125	20	20		180 days	1 - Plastic 500ml HNO3 preserved
Chromium, Total	7440-47-3	0.001	0.000178	mg/l	80-120		75-125	20	20		180 days	1 - Plastic 500ml HNO3 preserved
Cobalt, Total	7440-48-4	0.0005	0.000163	mg/l	80-120		75-125	20	20		180 days	1 - Plastic 500ml HNO3 preserved
Copper, Total	7440-50-8	0.001	0.000384	mg/l	80-120		75-125	20	20		180 days	1 - Plastic 500ml HNO3 preserved
Lithium, Total	7439-93-2	0.001	0.000083	mg/l	80-120		75-125	20	20		180 days	1 - Plastic 500ml HNO3 preserved
Iron, Total	7439-89-6	0.05	0.0191	mg/l	80-120		75-125	20	20		180 days	1 - Plastic 500ml HNO3 preserved
Lead, Total	7439-92-1	0.001	0.000343	mg/l	80-120		75-125	20	20		180 days	1 - Plastic 500ml HNO3 preserved
Magnesium, Total	7439-95-4	0.07	0.0242	mg/l	80-120		75-125	20	20		180 days	1 - Plastic 500ml HNO3 preserved
Manganese, Total	7439-96-5	0.001	0.00044	mg/l	80-120		75-125	20	20		180 days	1 - Plastic 500ml HNO3 preserved
Nickel, Total	7440-02-0	0.002	0.000556	mg/l	80-120		75-125	20	20		180 days	1 - Plastic 500ml HNO3 preserved
Potassium, Total	7440-09-7	0.1	0.0309	mg/l	80-120		75-125	20	20		180 days	1 - Plastic 500ml HNO3 preserved
Selenium, Total	7782-49-2	0.005	0.00173	mg/l	80-120		75-125	20	20		180 days	1 - Plastic 500ml HNO3 preserved
Silver, Total	7440-22-4	0.0004	0.000163	mg/l	80-120		75-125	20	20		180 days	1 - Plastic 500ml HNO3 preserved
Sodium, Total	7440-23-5	0.1	0.0293	mg/l	80-120		75-125	20	20		180 days	1 - Plastic 500ml HNO3 preserved
Thallium, Total	7440-28-0	0.0005	0.000143	mg/l	80-120		75-125	20	20		180 days	1 - Plastic 500ml HNO3 preserved
Vanadium, Total	7440-62-2	0.005	0.00157	mg/l	80-120		75-125	20	20		180 days	1 - Plastic 500ml HNO3 preserved
Zinc, Total	7440-66-6	0.01	0.00341	mg/l	80-120		75-125	20	20		180 days	1 - Plastic 500ml HNO3 preserved

Please Note that the RL information provided in this table is calculated using a 100% Solids factor. (Soil/Solids only)
Please Note that the information provided in this table is subject to change at anytime at the discretion of Alpha Analytical, Inc.

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File: PM9837-1
Page: 1

METALS by 6020B (SOIL)

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria	Holding Time	Container/Sample Preservation
Aluminum, Total	7429-90-5	10	1.48	mg/kg	48-151	20	75-125	20	20		180 days	Metals Only-Glass 60mL/2oz unpreserv
Antimony, Total	7440-36-0	0.16	0.01352	mg/kg	1-208	20	75-125	20	20		180 days	Metals Only-Glass 60mL/2oz unpreserv
Arsenic, Total	7440-38-2	0.05	0.0066	mg/kg	79-121	20	75-125	20	20		180 days	Metals Only-Glass 60mL/2oz unpreserv
Barium, Total	7440-39-3	0.3	0.02112	mg/kg	83-117	20	75-125	20	20		180 days	Metals Only-Glass 60mL/2oz unpreserv
Beryllium, Total	7440-41-7	0.03	0.00872	mg/kg	83-117	20	75-125	20	20		180 days	Metals Only-Glass 60mL/2oz unpreserv
Cadmium, Total	7440-43-9	0.02	0.00264	mg/kg	83-117	20	75-125	20	20		180 days	Metals Only-Glass 60mL/2oz unpreserv
Calcium, Total	7440-70-2	50	6.08	mg/kg	81-119	20	75-125	20	20		180 days	Metals Only-Glass 60mL/2oz unpreserv
Chromium, Total	7440-47-3	0.2	0.0468	mg/kg	80-120	20	75-125	20	20		180 days	Metals Only-Glass 60mL/2oz unpreserv
Cobalt, Total	7440-48-4	0.05	0.00532	mg/kg	84-115	20	75-125	20	20		180 days	Metals Only-Glass 60mL/2oz unpreserv
Copper, Total	7440-50-8	0.2	0.0194	mg/kg	81-118	20	75-125	20	20		180 days	Metals Only-Glass 60mL/2oz unpreserv
Iron, Total	7439-89-6	20	2.06	mg/kg	45-155	20	75-125	20	20		180 days	Metals Only-Glass 60mL/2oz unpreserv
Lead, Total	7439-92-1	0.06	0.0146	mg/kg	81-117	20	75-125	20	20		180 days	Metals Only-Glass 60mL/2oz unpreserv
Magnesium, Total	7439-95-4	10	1.232	mg/kg	76-124	20	75-125	20	20		180 days	Metals Only-Glass 60mL/2oz unpreserv
Manganese, Total	7439-96-5	0.2	0.0444	mg/kg	81-117	20	75-125	20	20		180 days	Metals Only-Glass 60mL/2oz unpreserv
Nickel, Total	7440-02-0	0.1	0.02672	mg/kg	83-117	20	75-125	20	20		180 days	Metals Only-Glass 60mL/2oz unpreserv
Potassium, Total	7440-09-7	10	1.588	mg/kg	71-129	20	75-125	20	20		180 days	Metals Only-Glass 60mL/2oz unpreserv
Selenium, Total	7782-49-2	0.2	0.0756	mg/kg	78-122	20	75-125	20	20		180 days	Metals Only-Glass 60mL/2oz unpreserv
Silver, Total	7440-22-4	0.05	0.00488	mg/kg	75-124	20	75-125	20	20		180 days	Metals Only-Glass 60mL/2oz unpreserv
Sodium, Total	7440-23-5	15	1.172	mg/kg	72-127	20	75-125	20	20		180 days	Metals Only-Glass 60mL/2oz unpreserv
Thallium, Total	7440-28-0	0.02	0.00516	mg/kg	80-120	20	75-125	20	20		180 days	Metals Only-Glass 60mL/2oz unpreserv
Vanadium, Total	7440-62-2	0.1	0.03792	mg/kg	78-122	20	75-125	20	20		180 days	Metals Only-Glass 60mL/2oz unpreserv
Zinc, Total	7440-66-6	1	0.26	mg/kg	82-118	20	75-125	20	20		180 days	Metals Only-Glass 60mL/2oz unpreserv

Please Note that the RL information provided in this table is calculated using a 100% Solids factor. (Soil/Solids only)
Please Note that the information provided in this table is subject to change at anytime at the discretion of Alpha Analytical, Inc.

Performance Report

System

Start time:	6/26/2024 3:12:07 AM
Instrument:	iCAP Q
Operator:	ALPHALAB\Metals-Instrument
Template:	STD AGD
Instrument Serial Number:	03031R
Last Autotune:	Autotune-SourceTune High Matrix-20240611-182454750.imatdat
Solution:	1 ppb Tune B in 2% HNO3 and 0.5% HCl.

Sensitivity & Stability Test

Result	Runs	Sweeps
Passed	5	10

Sensitivity

Analyte	Result	Value	Condition	Limit
Bkg4.5	Passed	1.6 CPS	Less than	5.0 CPS
Bkg220.7	Passed	0.0 CPS	Less than	5.0 CPS
7Li	Passed	12,565.0 CPS	Greater than	10,000.0 CPS
59Co	Passed	25,148.0 CPS	Greater than	1,000.0 CPS
238U	Passed	32,689.0 CPS	Greater than	20,000.0 CPS
140Ce.16O/140Ce	Passed	0.0124	Less than	0.025
137Ba++/137Ba	Passed	0.0072	Less than	0.034
115In	Passed	27,311.0 CPS	Greater than	5,000.0 CPS

Stability

Analyte	Value	Limit
7Li	1.7%	5
59Co	0.6%	5
238U	1.4%	5
140Ce.16O	6.3%	2
140Ce	1.3%	2
115In	1.6%	5

Mass Calibration Test

Result	Channels	Dwell	MeasureWidth	PointSpacing	Sweeps
Passed	75	0.04	1.5	0.02	10

Analyte	Result	Centroid Mass [u]	Offset	Peak width [u]	Peak width min [u]	Peak width max [u]
7Li	Passed	7.0471	0.0311	0.693	0.600	0.900
59Co	Passed	58.9438	0.0106	0.705	0.600	0.900
115In	Passed	114.9068	0.0029	0.730	0.600	0.900
238U	Passed	238.0795	0.0287	0.697	0.600	0.900

Tune Settings

Parameter	Value
Additional Gas Flow 1	42.12
Additional Gas Flow 2	0.00
Additional Gas Flow 3	0.00
Angular Deflection	-374.02
Auxilliary Flow	0.80
CCT Bias	0.56
CCT Entry Lens	-89.99
CCT Exit Lens	-160.01
CCT Focus Lens	-4.61
CCT1 Flow	0.00
CCT1 Shut-Off Valve	0.00
CCT2 Flow	0.00
CCT2 Shut-Off Valve	0.00
Cool Flow	14.00
D1 Lens	-198.39
D2 Lens	-80.00
Deflection Entry Lens	-35.01
Dry Pump Speed	0.00
Extraction Lens 1 Negative	0.00
Extraction Lens 1 Polarity	0.00
Extraction Lens 1 Positive	0.00
Extraction Lens 2	-145.05
Focus Lens	21.00
Nebulizer Flow	0.40
Peristaltic Pump Speed	17.00
Plasma Power	1549.58
Pole Bias	3.01
Quad Entry Lens	-25.20
Sampling Depth	5.00
Spray Chamber Temperature	2.68
Torch Horizontal Position	0.79
Torch Vertical Position	1.07
Virtual CCT Mass Maximum Dac Limit Set	4095.00
Virtual CCT Mass parameter b	1.00
Virtual CCT Mass to Dac Factor	60.00
Virtual CCT Mass to Dac Offset	80.00

Vacuum Check

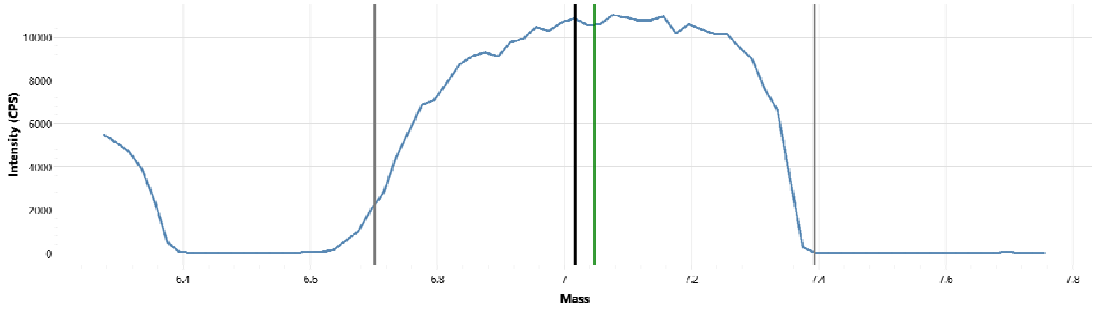
Parameter	Result	Value
Analyzer Pressure	Vacuum ok	1.962e-7
Interface Pressure		1.654e+0

Detector Voltages

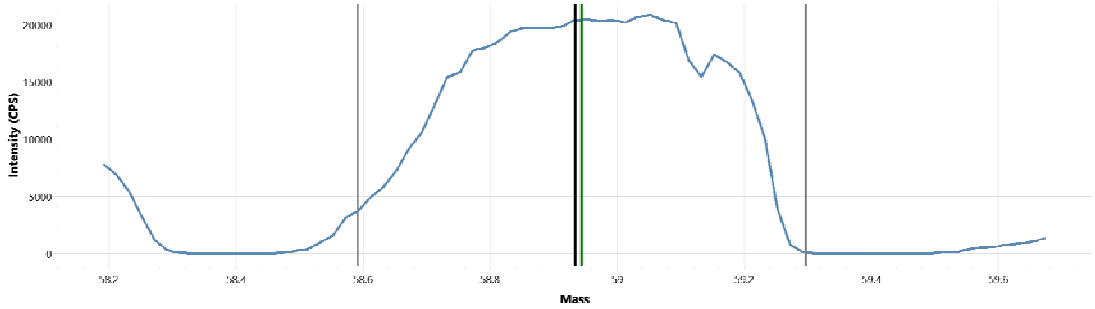
Analog	Counting
-1775.00	1475.00

Mass Calibration Peaks

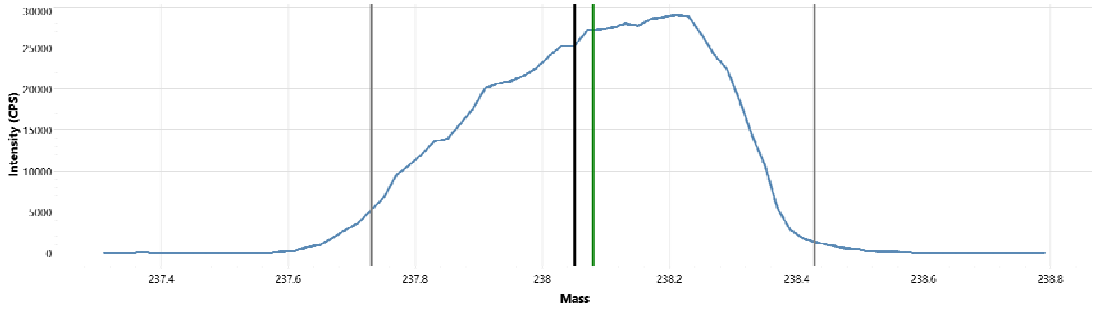
Analyte: 7Li



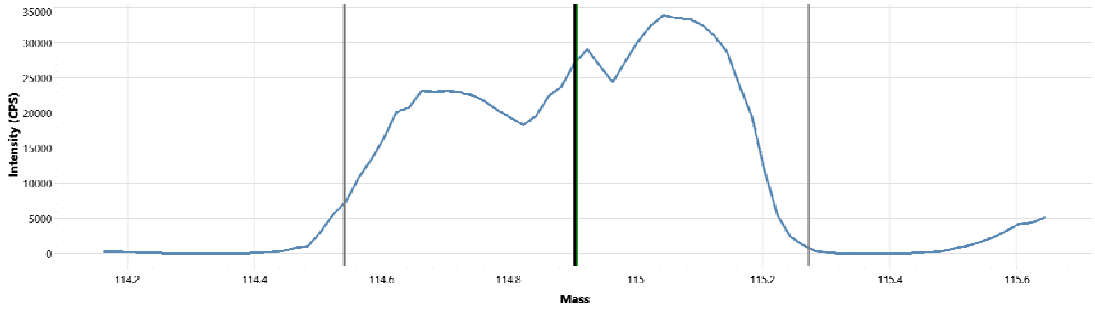
Analyte: 59Co



Analyte: 238U

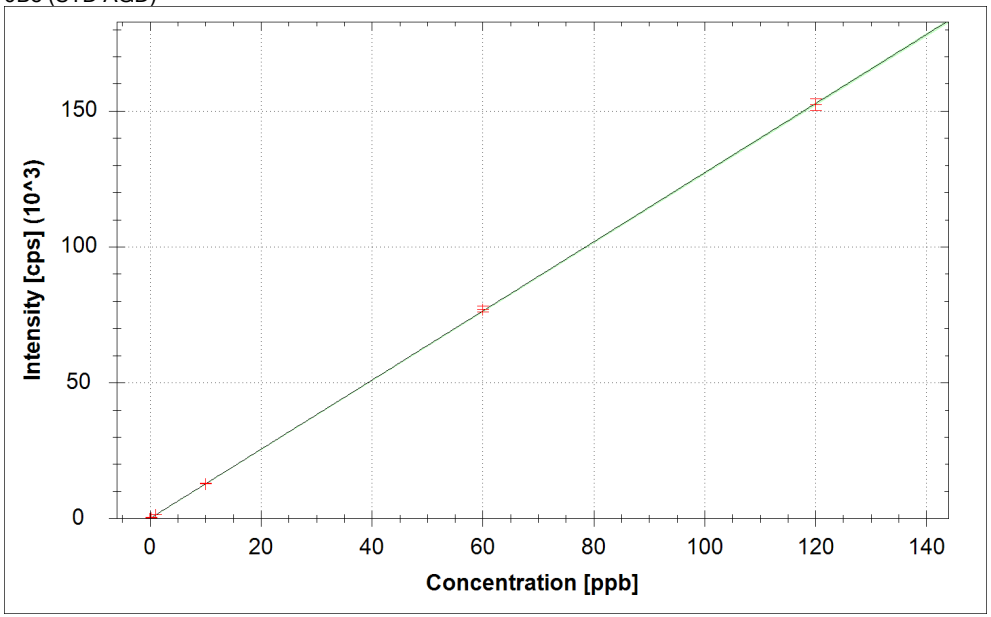


Analyte: 115In



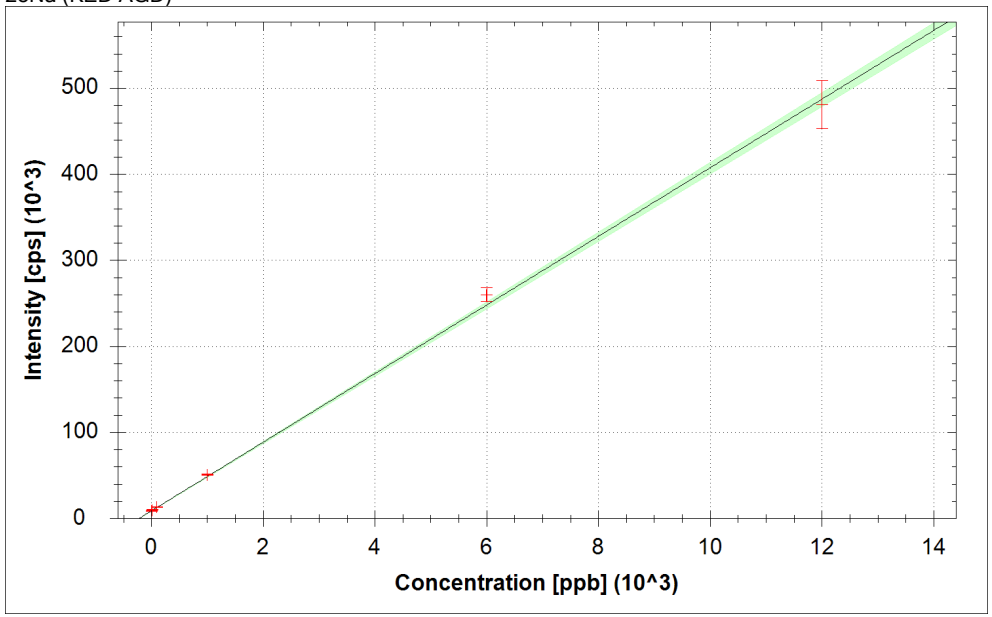
Calibration Curves:

9Be (STD AGD)



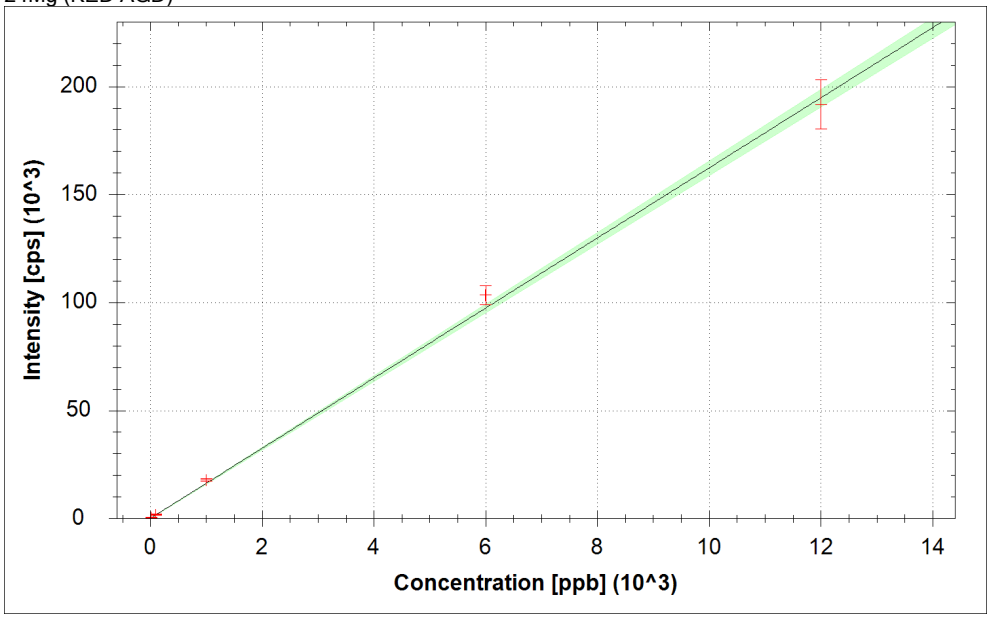
f(x) = 1271.9458*x + 12.9433
R² = 1.0000
BEC = 0.010 ppb
LoD = 0.0136 ppb

23Na (KED AGD)



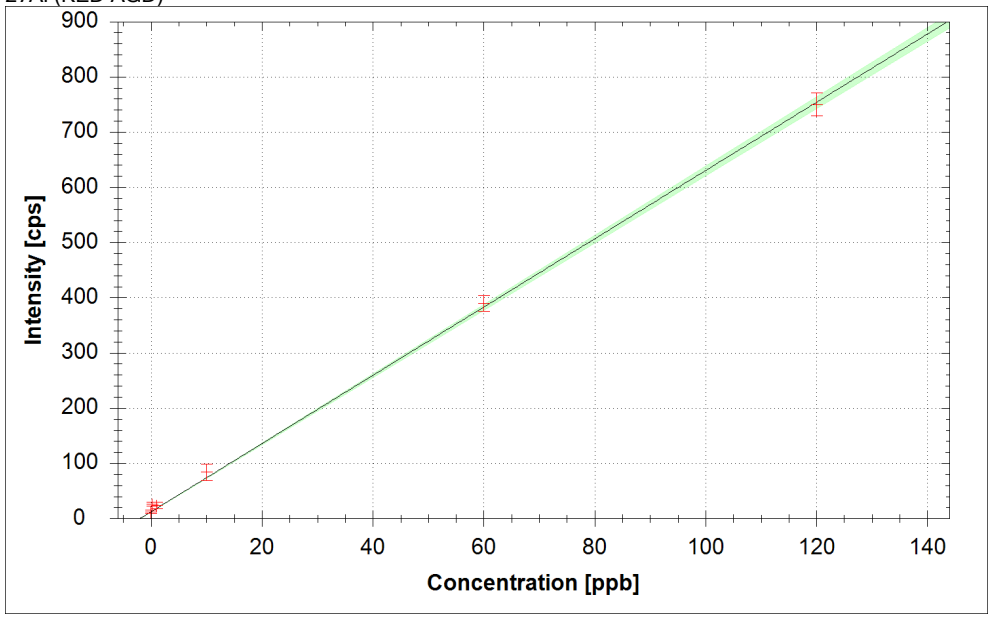
f(x) = 39.8506*x + 8764.5726
R² = 0.9990
BEC = 219.936 ppb
LoD = 34.8722 ppb

24Mg (KED AGD)



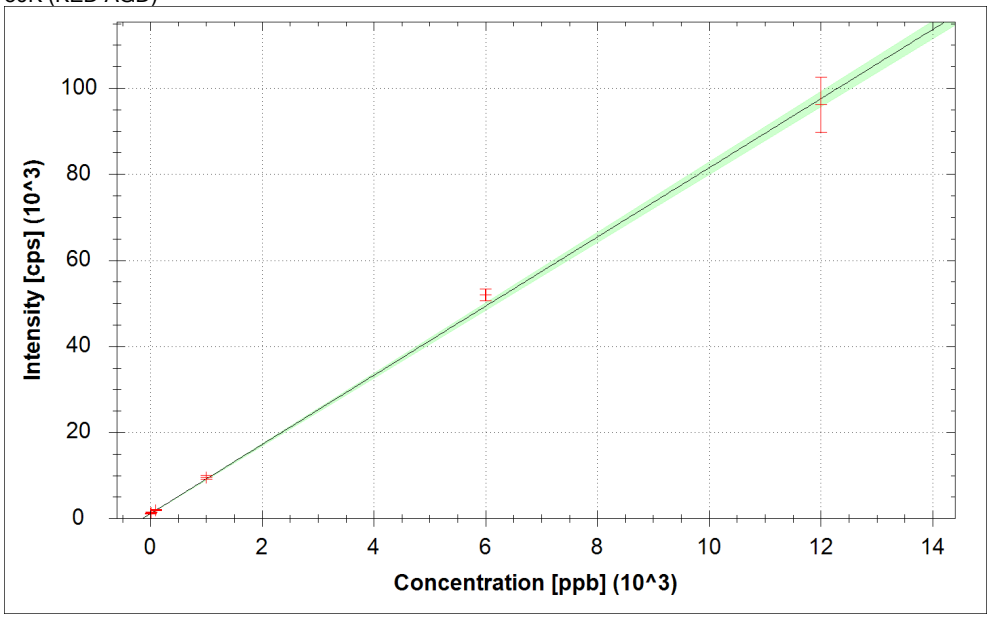
f(x) = 16.2231*x + 26.7756
R² = 0.9985
BEC = 1.650 ppb
LoD = 1.3588 ppb

27Al (KED AGD)



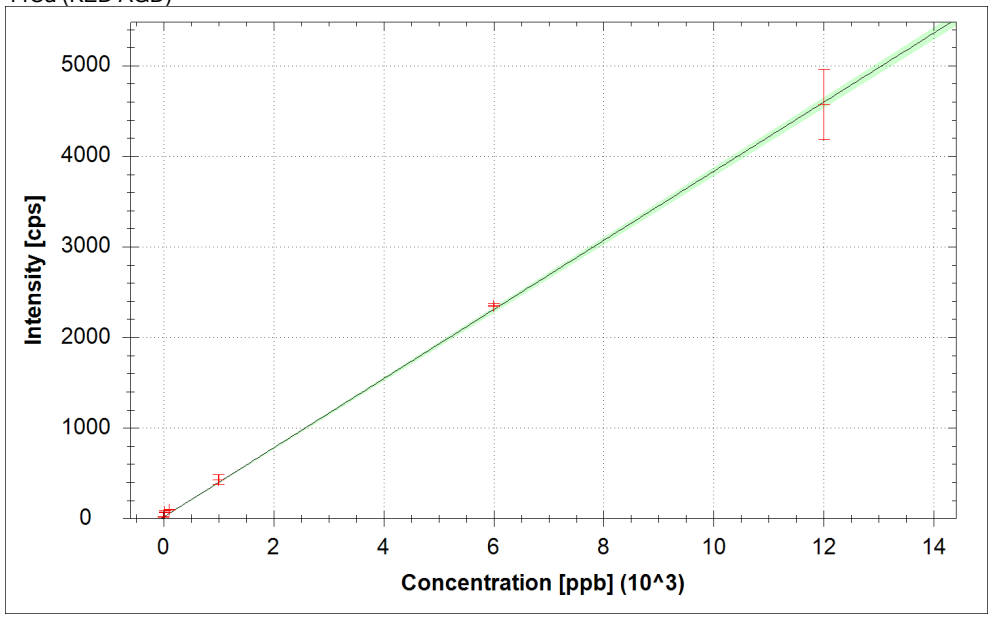
f(x) = 6.1796*x + 11.9588
R² = 0.9992
BEC = 1.935 ppb
LoD = 1.5668 ppb

39K (KED AGD)



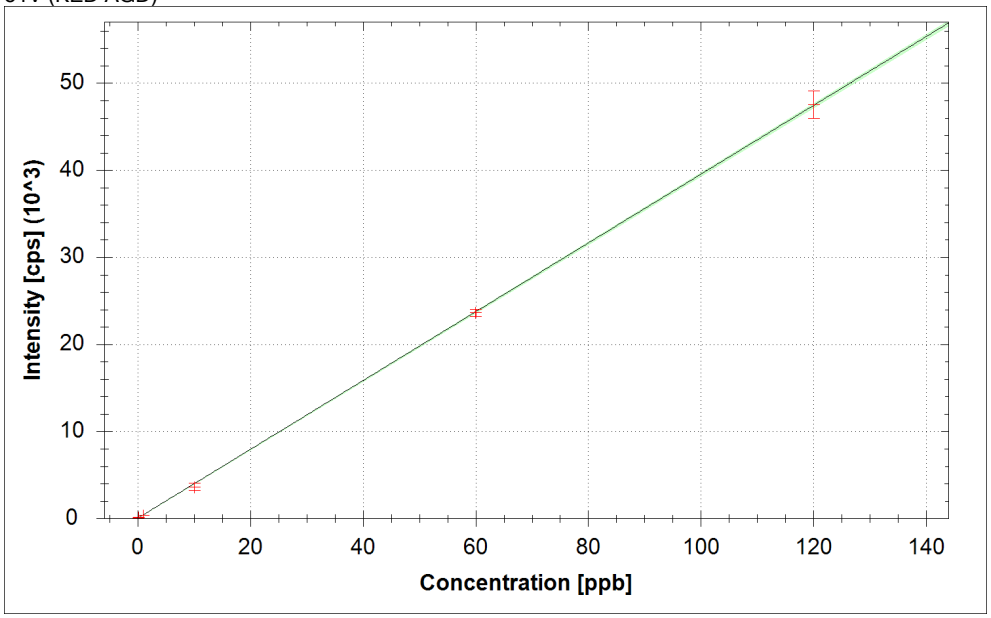
f(x) = 8.0343*x + 1100.9976
R² = 0.9988
BEC = 137.038 ppb
LoD = 16.9618 ppb

44Ca (KED AGD)



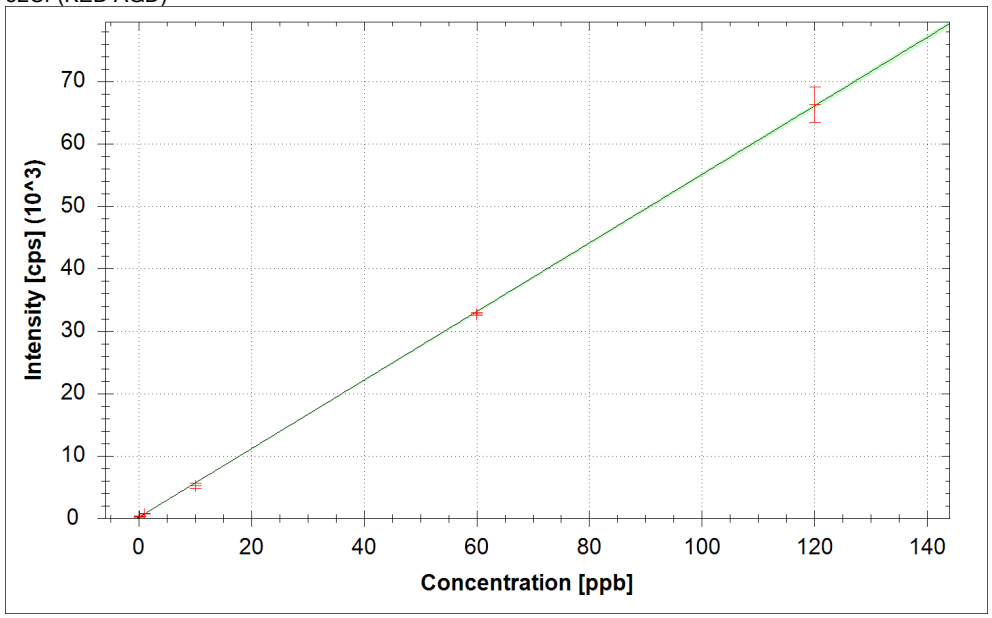
f(x) = 0.3818*x + 14.7869
R² = 0.9995
BEC = 38.727 ppb
LoD = 20.9777 ppb

51V (KED AGD)



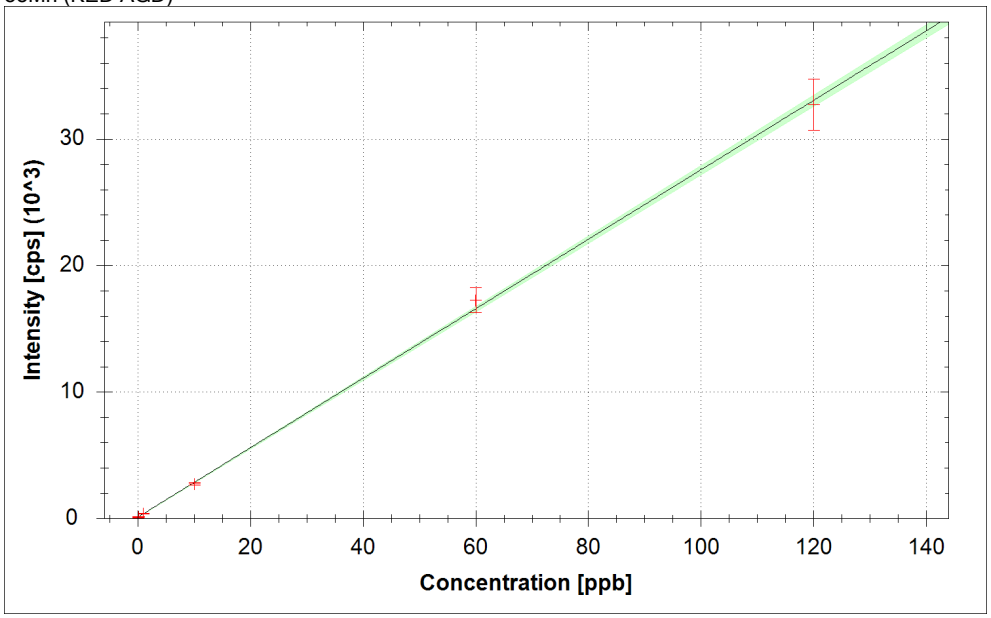
f(x) = 394.8873*x + 42.0381
R² = 0.9999
BEC = 0.106 ppb
LoD = 0.0668 ppb

52Cr (KED AGD)



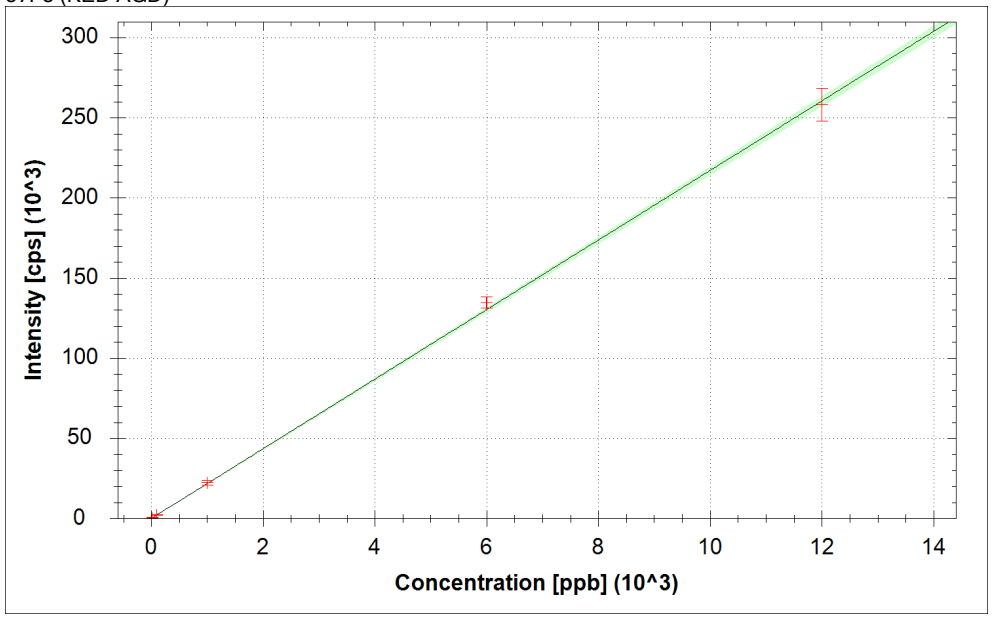
f(x) = 548.7636*x + 192.5545
R² = 0.9999
BEC = 0.351 ppb
LoD = 0.1274 ppb

55Mn (KED AGD)



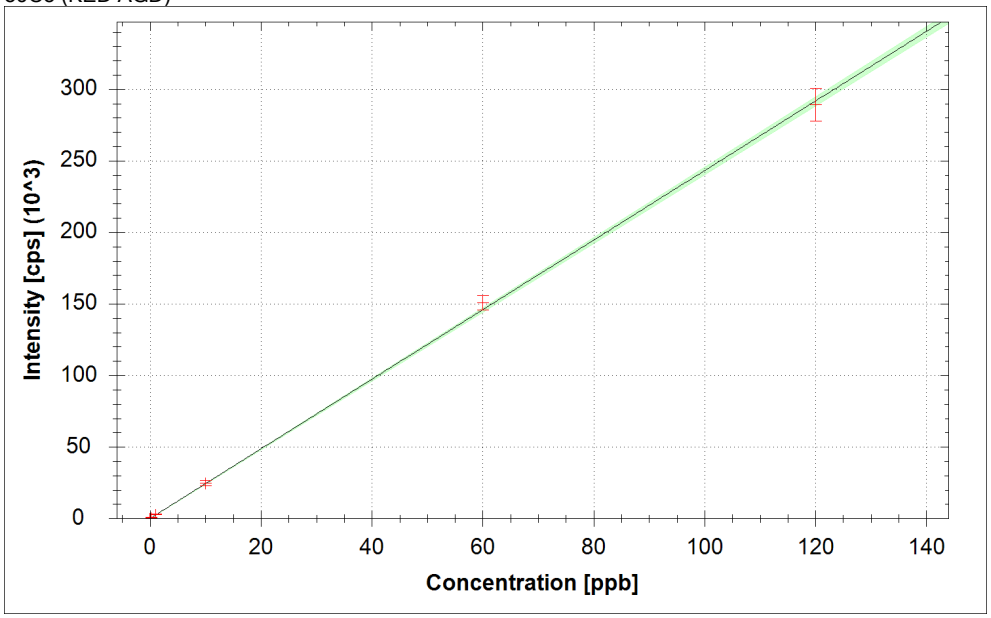
f(x) = 274.4403*x + 101.5895
R² = 0.9994
BEC = 0.370 ppb
LoD = 0.5239 ppb

57Fe (KED AGD)



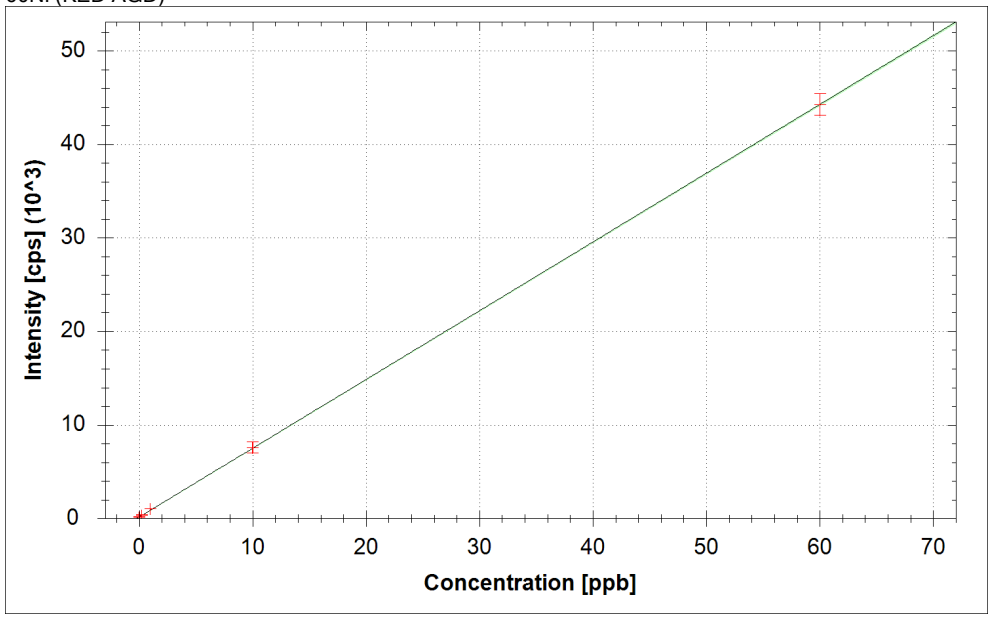
f(x) = 21.6901*x + 62.4694
R² = 0.9996
BEC = 2.880 ppb
LoD = 1.6771 ppb

59Co (KED AGD)



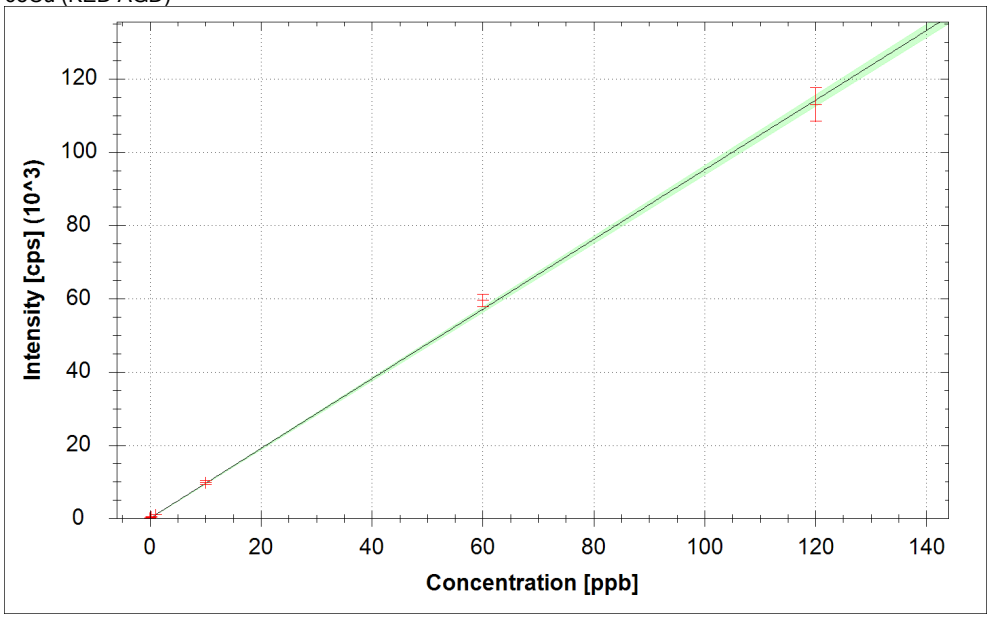
f(x) = 2430.7588*x + 24.4824
R² = 0.9996
BEC = 0.010 ppb
LoD = 0.0097 ppb

60Ni (KED AGD)



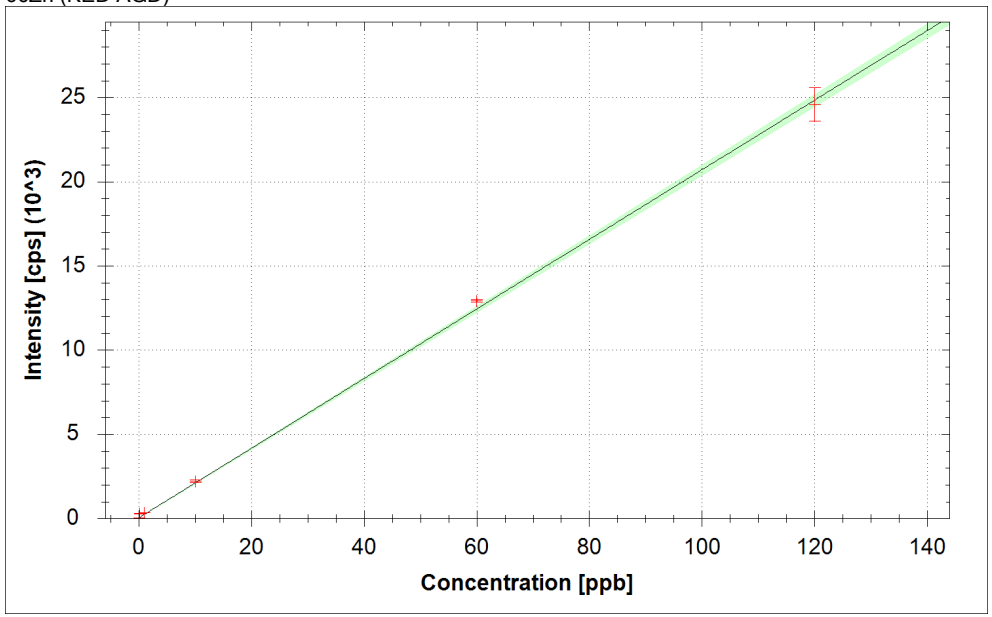
f(x) = 734.9655*x + 149.0707
R² = 1.0000
BEC = 0.203 ppb
LoD = 0.1143 ppb

65Cu (KED AGD)



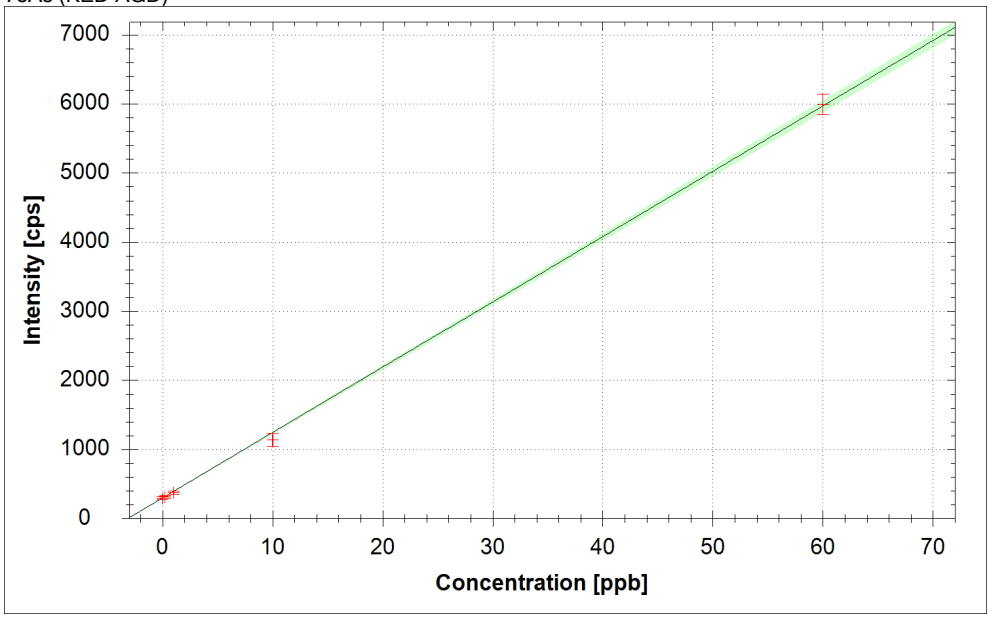
f(x) = 950.8490*x + 64.5248
R² = 0.9993
BEC = 0.068 ppb
LoD = 0.0894 ppb

66Zn (KED AGD)



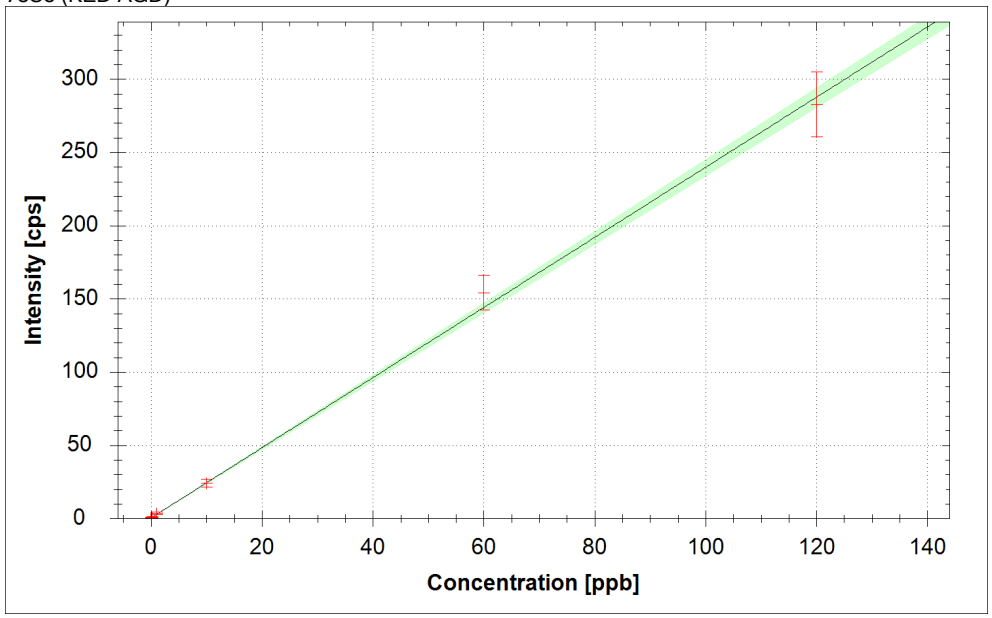
f(x) = 206.6171*x + 36.7996
R² = 0.9993
BEC = 0.178 ppb
LoD = 0.0758 ppb

75As (KED AGD)



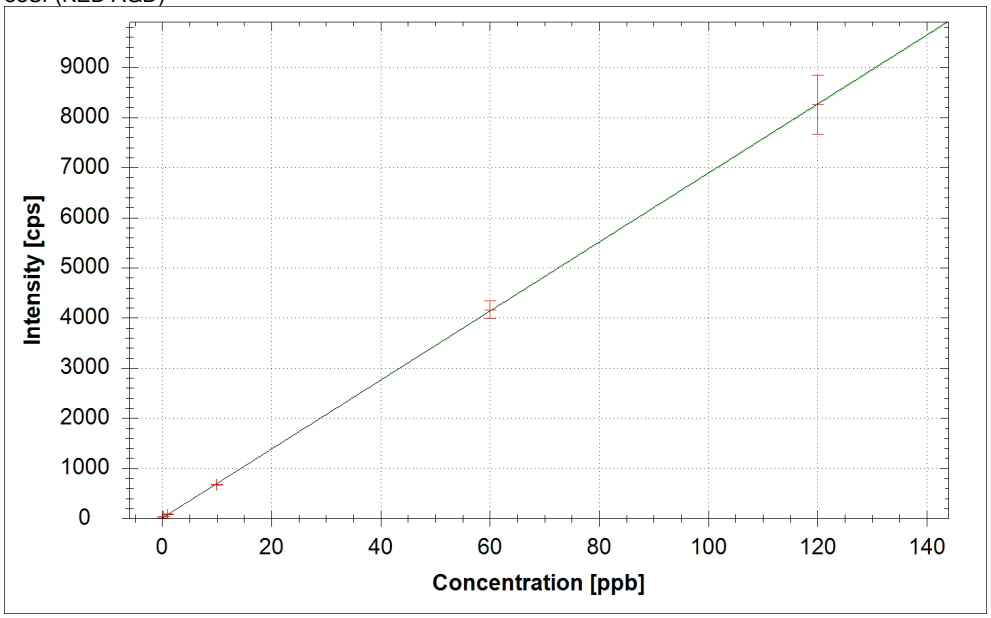
f(x) = 94.5742*x + 295.7362
R² = 0.9995
BEC = 3.127 ppb
LoD = 0.8861 ppb

78Se (KED AGD)



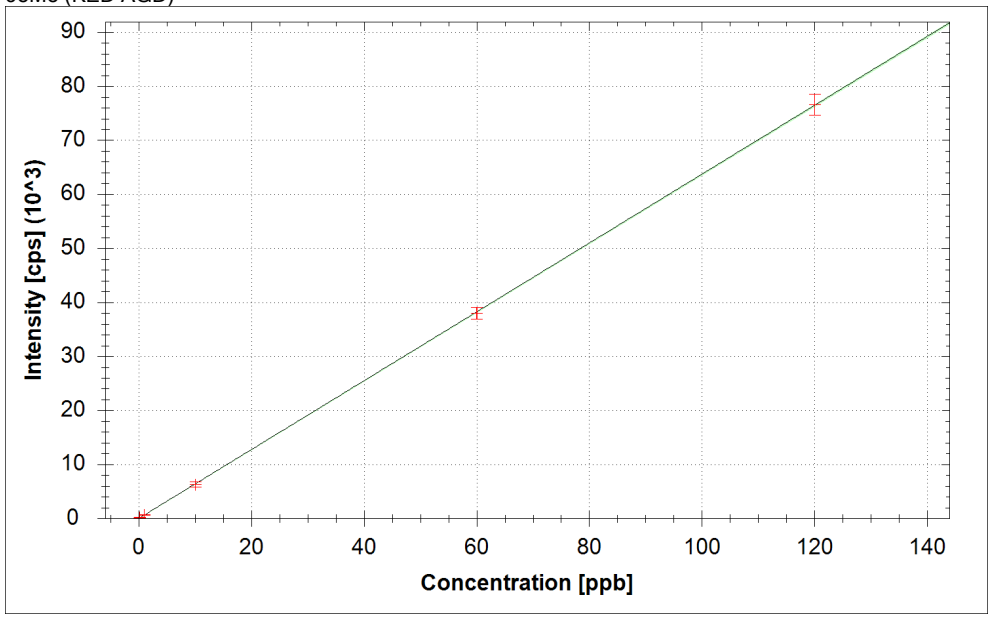
f(x) = 2.3931*x + 0.3984
R² = 0.9981
BEC = 0.167 ppb
LoD = 0.2105 ppb

88Sr (KED AGD)



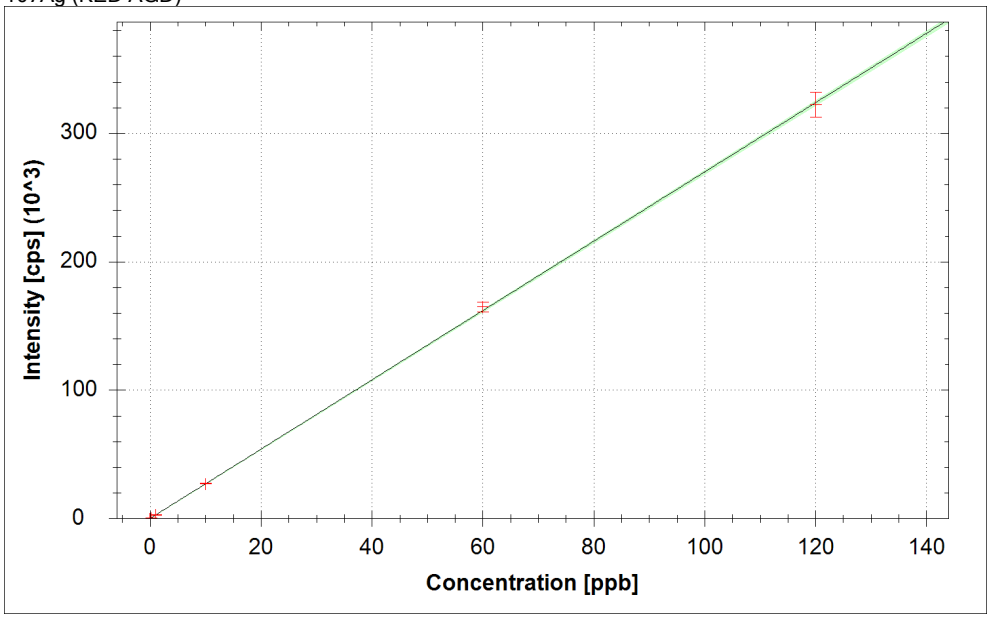
f(x) = 68.7994*x + 7.7242
R² = 1.0000
BEC = 0.112 ppb
LoD = 0.0567 ppb

95Mo (KED AGD)



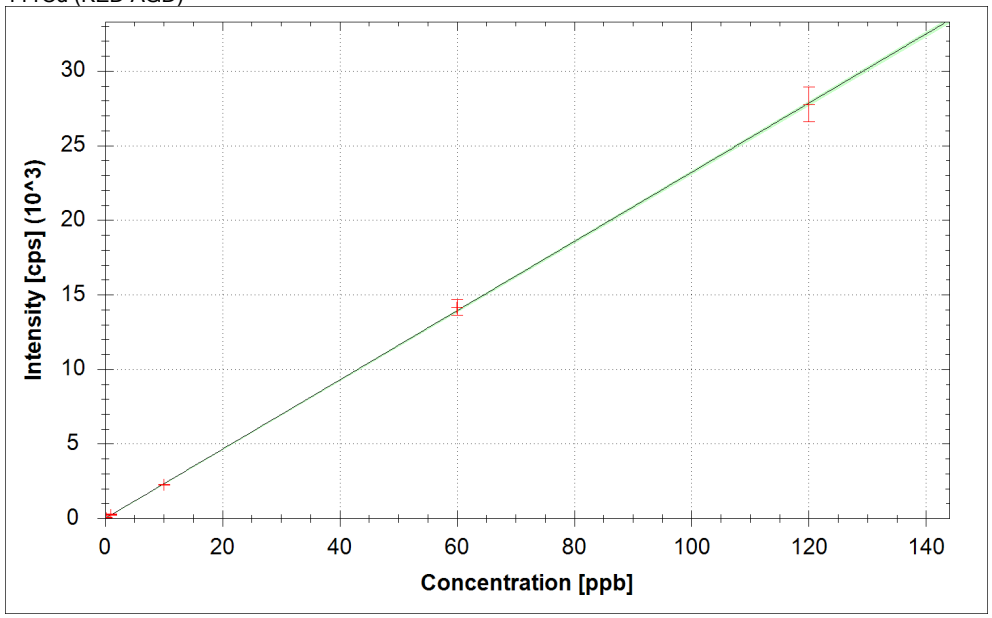
f(x) = 636.7921*x + 19.9634
R² = 1.0000
BEC = 0.031 ppb
LoD = 0.0837 ppb

107Ag (KED AGD)



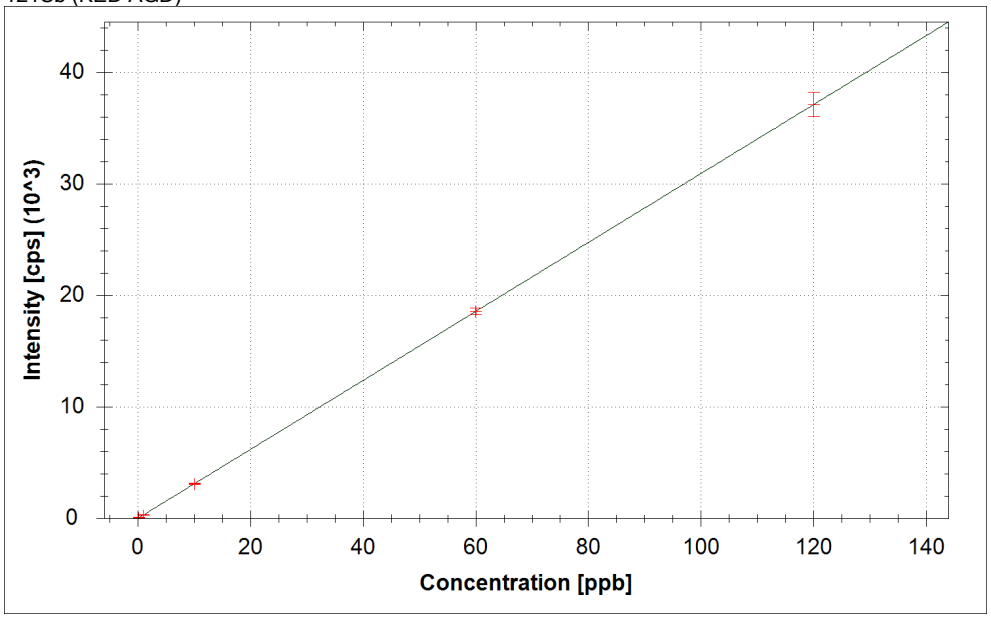
f(x) = 2697.5554*x + 14.5977
R² = 0.9999
BEC = 0.005 ppb
LoD = 0.0065 ppb

111Cd (KED AGD)



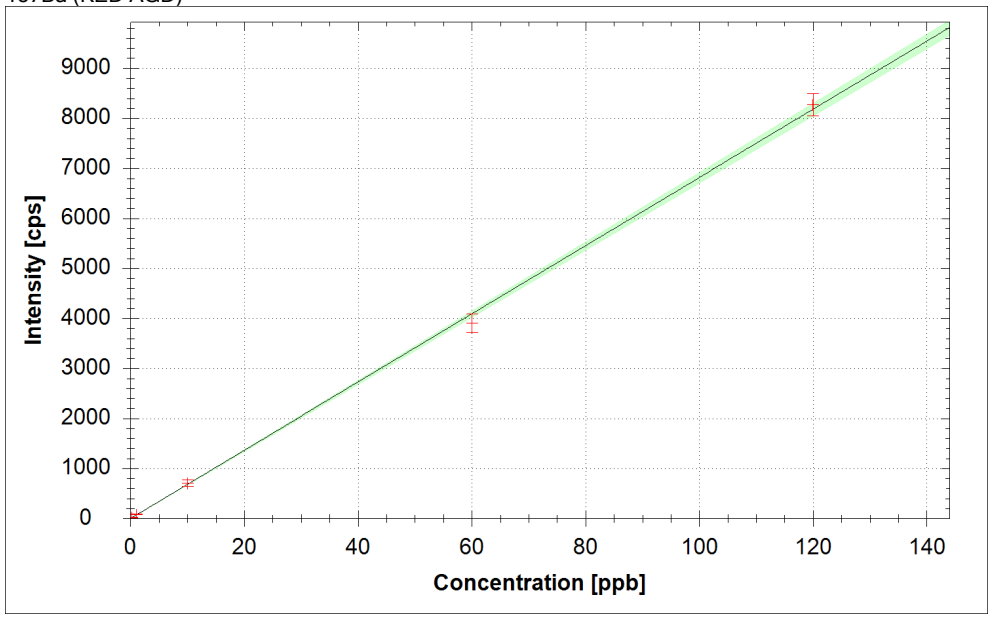
f(x) = 231.9947*x
R² = 0.9999
BEC = 0.000 ppb
LoD = 0.0000 ppb

121Sb (KED AGD)



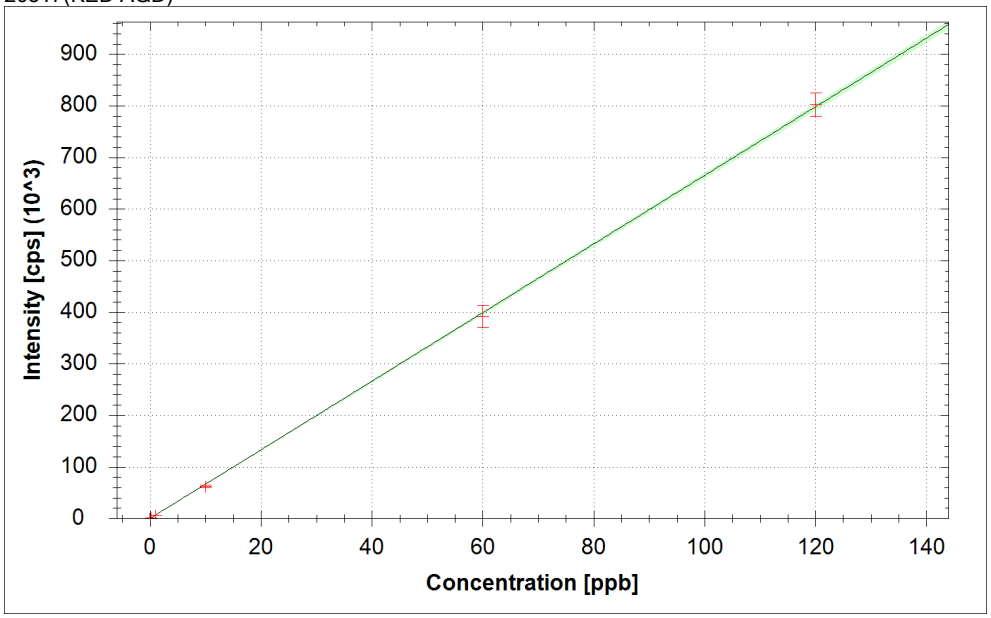
f(x) = 309.2447*x + 9.2518
R² = 1.0000
BEC = 0.030 ppb
LoD = 0.0139 ppb

137Ba (KED AGD)



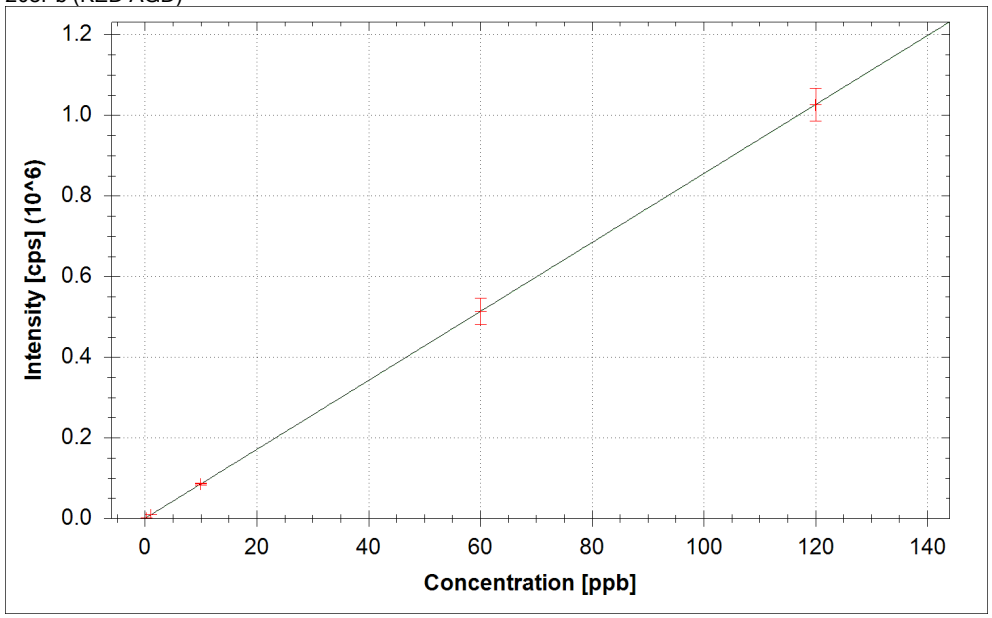
f(x) = 68.1485*x
R² = 0.9992
BEC = 0.000 ppb
LoD = 0.0000 ppb

205Tl (KED AGD)



f(x) = 6647.7470*x + 45.8556
R² = 0.9998
BEC = 0.007 ppb
LoD = 0.0155 ppb

208Pb (KED AGD)



f(x) = 8550.8144*x + 69.5722
R² = 1.0000
BEC = 0.008 ppb
LoD = 0.0059 ppb

Standards:

Analysis Index: 4
Analysis Name: 0.2/20 Cal
Analysis Type: STD
Analysis Started at: 6/26/2024 3:37:20 AM
Total Dilution Factor 50000
Rack 0
Vial 2

Category	Concentration average	Concentration RSD	Standard Concentration	Standard Relative Difference
6Li (STD AGD)	99.761 %	2.4 %		0.000 %
6Li (KED AGD)	99.077 %	5.2 %		0.000 %
9Be (STD AGD)	0.213 ppb	9.5 %	0.200 ppb	6.687 %
23Na (KED AGD)	23.306 ppb	40.6 %	20.000 ppb	16.532 %
24Mg (KED AGD)	23.392 ppb	11.8 %	20.000 ppb	16.961 %
27Al (KED AGD)	2.201 ppb	28.7 %	0.200 ppb	1,000.286 %
39K (KED AGD)	34.309 ppb	42.6 %	20.000 ppb	71.546 %
44Ca (KED AGD)	150.832 ppb	19.3 %	20.000 ppb	654.162 %
45Sc (STD AGD)	102.176 %	1.2 %		0.000 %
51V (KED AGD)	0.212 ppb	14.6 %	0.200 ppb	6.055 %
52Cr (KED AGD)	0.233 ppb	31.3 %	0.200 ppb	16.364 %
55Mn (KED AGD)	0.114 ppb	67.6 %	0.200 ppb	43.143 %
57Fe (KED AGD)	19.097 ppb	10.7 %	20.000 ppb	4.516 %
59Co (KED AGD)	0.215 ppb	13.2 %	0.200 ppb	7.274 %
60Ni (KED AGD)	0.255 ppb	16.2 %	0.200 ppb	27.454 %
65Cu (KED AGD)	0.362 ppb	17.6 %	0.200 ppb	81.248 %
66Zn (KED AGD)	1.259 ppb	7.3 %	0.200 ppb	529.345 %
74Ge (KED AGD)	101.240 %	8.7 %		0.000 %
75As (KED AGD)	0.148 ppb	137.2 %	0.200 ppb	25.827 %
78Se (KED AGD)	0.158 ppb	108.5 %	0.200 ppb	21.021 %
88Sr (KED AGD)	0.335 ppb	2.0 %	0.200 ppb	67.611 %
95Mo (KED AGD)	0.212 ppb	29.5 %	0.200 ppb	5.955 %
103Rh (KED AGD)	100.985 %	4.0 %		0.000 %
107Ag (KED AGD)	0.202 ppb	3.2 %	0.200 ppb	1.111 %
111Cd (KED AGD)	0.209 ppb	17.5 %	0.200 ppb	4.272 %
115In (KED AGD)	103.528 %	8.6 %		0.000 %
121Sb (KED AGD)	0.201 ppb	12.6 %	0.200 ppb	0.449 %
137Ba (KED AGD)	0.255 ppb	62.1 %	0.200 ppb	27.269 %
159Tb (KED AGD)	102.520 %	5.0 %		0.000 %
175Lu (KED AGD)	101.979 %	7.5 %		0.000 %
205Tl (KED AGD)	0.174 ppb	9.6 %	0.200 ppb	12.800 %
208Pb (KED AGD)	0.214 ppb	1.1 %	0.200 ppb	7.223 %

Standards:

Analysis Index: 5
Analysis Name: 1/100 Cal
Analysis Type: STD
Analysis Started at: 6/26/2024 3:41:58 AM
Total Dilution Factor 10000
Rack 0
Vial 3

Category	Concentration average	Concentration RSD	Standard Concentration	Standard Relative Difference
6Li (STD AGD)	99.686 %	2.4 %		0.000 %
6Li (KED AGD)	96.617 %	6.0 %		0.000 %
9Be (STD AGD)	1.035 ppb	1.1 %	1.000 ppb	3.475 %
23Na (KED AGD)	114.934 ppb	9.7 %	100.000 ppb	14.934 %
24Mg (KED AGD)	109.607 ppb	15.8 %	100.000 ppb	9.607 %
27Al (KED AGD)	1.853 ppb	53.3 %	1.000 ppb	85.343 %
39K (KED AGD)	106.049 ppb	20.8 %	100.000 ppb	6.049 %
44Ca (KED AGD)	215.370 ppb	1.8 %	100.000 ppb	115.370 %
45Sc (STD AGD)	102.523 %	0.3 %		0.000 %
51V (KED AGD)	0.807 ppb	3.0 %	1.000 ppb	19.295 %
52Cr (KED AGD)	1.022 ppb	13.6 %	1.000 ppb	2.162 %
55Mn (KED AGD)	1.009 ppb	13.1 %	1.000 ppb	0.882 %
57Fe (KED AGD)	97.481 ppb	9.6 %	100.000 ppb	2.519 %
59Co (KED AGD)	1.085 ppb	8.3 %	1.000 ppb	8.493 %
60Ni (KED AGD)	1.165 ppb	0.7 %	1.000 ppb	16.503 %
65Cu (KED AGD)	1.022 ppb	5.7 %	1.000 ppb	2.163 %
66Zn (KED AGD)	1.448 ppb	2.8 %	1.000 ppb	44.812 %
74Ge (KED AGD)	101.327 %	7.1 %		0.000 %
75As (KED AGD)	0.838 ppb	30.0 %	1.000 ppb	16.239 %
78Se (KED AGD)	1.230 ppb	29.6 %	1.000 ppb	23.048 %
88Sr (KED AGD)	1.029 ppb	8.3 %	1.000 ppb	2.866 %
95Mo (KED AGD)	0.974 ppb	8.7 %	1.000 ppb	2.626 %
103Rh (KED AGD)	102.270 %	3.1 %		0.000 %
107Ag (KED AGD)	0.998 ppb	3.0 %	1.000 ppb	0.156 %
111Cd (KED AGD)	1.045 ppb	15.5 %	1.000 ppb	4.536 %
115In (KED AGD)	104.426 %	4.7 %		0.000 %
121Sb (KED AGD)	0.962 ppb	3.1 %	1.000 ppb	3.841 %
137Ba (KED AGD)	1.161 ppb	12.6 %	1.000 ppb	16.140 %
159Tb (KED AGD)	105.221 %	6.0 %		0.000 %
175Lu (KED AGD)	103.971 %	4.1 %		0.000 %
205Tl (KED AGD)	0.922 ppb	3.1 %	1.000 ppb	7.780 %
208Pb (KED AGD)	1.009 ppb	2.3 %	1.000 ppb	0.934 %

Standards:

Analysis Index: 6
Analysis Name: 10/1000 Cal
Analysis Type: STD
Analysis Started at: 6/26/2024 3:46:36 AM
Total Dilution Factor 1000
Rack 0
Vial 4

Category	Concentration average	Concentration RSD	Standard Concentration	Standard Relative Difference
6Li (STD AGD)	98.774 %	1.9 %		0.000 %
6Li (KED AGD)	95.572 %	3.4 %		0.000 %
9Be (STD AGD)	10.033 ppb	1.0 %	10.000 ppb	0.331 %
23Na (KED AGD)	1,062.440 ppb	1.9 %	1,000.000 ppb	6.244 %
24Mg (KED AGD)	1,101.490 ppb	3.1 %	1,000.000 ppb	10.149 %
27Al (KED AGD)	11.588 ppb	21.3 %	10.000 ppb	15.878 %
39K (KED AGD)	1,058.883 ppb	5.3 %	1,000.000 ppb	5.888 %
44Ca (KED AGD)	1,083.143 ppb	13.0 %	1,000.000 ppb	8.314 %
45Sc (STD AGD)	103.364 %	1.1 %		0.000 %
51V (KED AGD)	9.010 ppb	11.7 %	10.000 ppb	9.903 %
52Cr (KED AGD)	9.098 ppb	8.4 %	10.000 ppb	9.016 %
55Mn (KED AGD)	9.612 ppb	4.3 %	10.000 ppb	3.884 %
57Fe (KED AGD)	1,023.450 ppb	6.0 %	1,000.000 ppb	2.345 %
59Co (KED AGD)	10.206 ppb	7.4 %	10.000 ppb	2.060 %
60Ni (KED AGD)	10.099 ppb	7.9 %	10.000 ppb	0.991 %
65Cu (KED AGD)	10.234 ppb	4.9 %	10.000 ppb	2.343 %
66Zn (KED AGD)	10.484 ppb	4.1 %	10.000 ppb	4.840 %
74Ge (KED AGD)	105.920 %	10.9 %		0.000 %
75As (KED AGD)	8.908 ppb	11.0 %	10.000 ppb	10.924 %
78Se (KED AGD)	9.833 ppb	11.5 %	10.000 ppb	1.666 %
88Sr (KED AGD)	9.628 ppb	1.8 %	10.000 ppb	3.717 %
95Mo (KED AGD)	9.806 ppb	7.1 %	10.000 ppb	1.940 %
103Rh (KED AGD)	104.893 %	2.4 %		0.000 %
107Ag (KED AGD)	9.994 ppb	0.9 %	10.000 ppb	0.056 %
111Cd (KED AGD)	9.712 ppb	0.7 %	10.000 ppb	2.878 %
115In (KED AGD)	105.849 %	2.8 %		0.000 %
121Sb (KED AGD)	9.929 ppb	2.1 %	10.000 ppb	0.710 %
137Ba (KED AGD)	10.267 ppb	9.2 %	10.000 ppb	2.667 %
159Tb (KED AGD)	106.050 %	3.8 %		0.000 %
175Lu (KED AGD)	105.818 %	4.0 %		0.000 %
205Tl (KED AGD)	9.293 ppb	4.0 %	10.000 ppb	7.073 %
208Pb (KED AGD)	9.945 ppb	2.2 %	10.000 ppb	0.551 %

Standards:

Analysis Index: 7
Analysis Name: 60/6000 Cal
Analysis Type: STD
Analysis Started at: 6/26/2024 3:51:15 AM
Total Dilution Factor 166.6666666
Rack 0
Vial 5

Category	Concentration average	Concentration RSD	Standard Concentration	Standard Relative Difference
6Li (STD AGD)	94.789 %	3.1 %		0.000 %
6Li (KED AGD)	96.064 %	2.9 %		0.000 %
9Be (STD AGD)	60.555 ppb	1.5 %	60.000 ppb	0.925 %
23Na (KED AGD)	6,302.838 ppb	3.3 %	6,000.000 ppb	5.047 %
24Mg (KED AGD)	6,367.449 ppb	4.3 %	6,000.000 ppb	6.124 %
27Al (KED AGD)	61.052 ppb	3.8 %	60.000 ppb	1.753 %
39K (KED AGD)	6,329.058 ppb	2.7 %	6,000.000 ppb	5.484 %
44Ca (KED AGD)	6,126.273 ppb	0.8 %	6,000.000 ppb	2.105 %
45Sc (STD AGD)	109.204 %	1.3 %		0.000 %
51V (KED AGD)	59.672 ppb	1.8 %	60.000 ppb	0.547 %
52Cr (KED AGD)	59.343 ppb	0.7 %	60.000 ppb	1.094 %
55Mn (KED AGD)	62.460 ppb	5.8 %	60.000 ppb	4.099 %
57Fe (KED AGD)	6,205.307 ppb	2.6 %	6,000.000 ppb	3.422 %
59Co (KED AGD)	62.017 ppb	3.3 %	60.000 ppb	3.362 %
60Ni (KED AGD)	59.981 ppb	2.6 %	60.000 ppb	0.032 %
65Cu (KED AGD)	62.493 ppb	2.8 %	60.000 ppb	4.155 %
66Zn (KED AGD)	62.382 ppb	0.6 %	60.000 ppb	3.969 %
74Ge (KED AGD)	100.701 %	4.2 %		0.000 %
75As (KED AGD)	60.185 ppb	2.6 %	60.000 ppb	0.308 %
78Se (KED AGD)	64.233 ppb	7.8 %	60.000 ppb	7.054 %
88Sr (KED AGD)	60.364 ppb	4.2 %	60.000 ppb	0.607 %
95Mo (KED AGD)	59.591 ppb	2.8 %	60.000 ppb	0.682 %
103Rh (KED AGD)	103.390 %	3.2 %		0.000 %
107Ag (KED AGD)	61.077 ppb	2.3 %	60.000 ppb	1.794 %
111Cd (KED AGD)	60.917 ppb	3.8 %	60.000 ppb	1.528 %
115In (KED AGD)	107.891 %	5.7 %		0.000 %
121Sb (KED AGD)	60.004 ppb	1.7 %	60.000 ppb	0.007 %
137Ba (KED AGD)	57.206 ppb	4.7 %	60.000 ppb	4.657 %
159Tb (KED AGD)	110.430 %	6.4 %		0.000 %
175Lu (KED AGD)	108.182 %	7.4 %		0.000 %
205Tl (KED AGD)	58.823 ppb	5.4 %	60.000 ppb	1.961 %
208Pb (KED AGD)	60.028 ppb	6.4 %	60.000 ppb	0.047 %

Standards:

Analysis Index: 8
Analysis Name: 120/12000 Cal
Analysis Type: STD
Analysis Started at: 6/26/2024 3:55:54 AM
Total Dilution Factor 83.33333333
Rack 0
Vial 6

Category	Concentration average	Concentration RSD	Standard Concentration	Standard Relative Difference
6Li (STD AGD)	92.062 %	2.1 %		0.000 %
6Li (KED AGD)	100.308 %	8.6 %		0.000 %
9Be (STD AGD)	119.720 ppb	1.4 %	120.000 ppb	0.234 %
23Na (KED AGD)	11,843.248 ppb	5.9 %	12,000.000 ppb	1.306 %
24Mg (KED AGD)	11,807.732 ppb	5.9 %	12,000.000 ppb	1.602 %
27Al (KED AGD)	119.331 ppb	2.8 %	120.000 ppb	0.557 %
39K (KED AGD)	11,830.490 ppb	6.7 %	12,000.000 ppb	1.413 %
44Ca (KED AGD)	11,928.756 ppb	8.5 %	12,000.000 ppb	0.594 %
45Sc (STD AGD)	111.446 %	0.4 %		0.000 %
51V (KED AGD)	120.248 ppb	3.3 %	120.000 ppb	0.207 %
52Cr (KED AGD)	120.403 ppb	4.3 %	120.000 ppb	0.336 %
55Mn (KED AGD)	118.803 ppb	6.2 %	120.000 ppb	0.998 %
57Fe (KED AGD)	11,895.415 ppb	4.0 %	12,000.000 ppb	0.872 %
59Co (KED AGD)	118.974 ppb	4.0 %	120.000 ppb	0.855 %
60Ni (KED AGD)	163.895 ppb	4.5 %	120.000 ppb	36.580 %
65Cu (KED AGD)	118.734 ppb	4.1 %	120.000 ppb	1.055 %
66Zn (KED AGD)	118.763 ppb	4.1 %	120.000 ppb	1.031 %
74Ge (KED AGD)	102.761 %	3.8 %		0.000 %
75As (KED AGD)	115.434 ppb	5.2 %	120.000 ppb	3.805 %
78Se (KED AGD)	117.896 ppb	7.9 %	120.000 ppb	1.754 %
88Sr (KED AGD)	119.848 ppb	7.1 %	120.000 ppb	0.126 %
95Mo (KED AGD)	120.221 ppb	2.5 %	120.000 ppb	0.184 %
103Rh (KED AGD)	104.449 %	4.2 %		0.000 %
107Ag (KED AGD)	119.462 ppb	3.0 %	120.000 ppb	0.448 %
111Cd (KED AGD)	119.565 ppb	4.2 %	120.000 ppb	0.362 %
115In (KED AGD)	110.626 %	7.7 %		0.000 %
121Sb (KED AGD)	120.004 ppb	2.9 %	120.000 ppb	0.003 %
137Ba (KED AGD)	121.373 ppb	2.7 %	120.000 ppb	1.145 %
159Tb (KED AGD)	112.991 %	5.1 %		0.000 %
175Lu (KED AGD)	112.984 %	5.9 %		0.000 %
205Tl (KED AGD)	120.648 ppb	2.8 %	120.000 ppb	0.540 %
208Pb (KED AGD)	119.991 ppb	3.9 %	120.000 ppb	0.008 %

Alpha ICPMSQ Data with SRD

6/26/2024 10:46:24 AM

Analysis index:	1	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	Rinse	Rack	0		
Analysis started at:	6/26/2024 3:23:24 AM	Vial	1		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	105.288 %	95.818 %	0.003 ppb	16.670 ppb	1.877 ppb	1.536 ppb	2.383 ppb	10.000 ppb	95.354 %
Concentration per Run 1	107.247 %	92.804 %	0.004 ppb	14.670 ppb	1.405 ppb	1.151 ppb	5.813 ppb	7.606 ppb	95.513 %
Concentration per Run 2	105.749 %	95.572 %	0.000 ppb	18.815 ppb	2.601 ppb	1.853 ppb	5.871 ppb	17.523 ppb	94.868 %
Concentration per Run 3	102.869 %	99.077 %	0.004 ppb	16.526 ppb	1.625 ppb	1.604 ppb	-4.534 ppb	4.871 ppb	95.682 %
Concentration RSD	2.1 %	3.3 %	93.5 %	12.5 %	33.9 %	23.2 %	251.4 %	66.6 %	0.5 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	-0.021 ppb	0.021 ppb	0.134 ppb	2.581 ppb	0.005 ppb	0.652 ppb	1.389 ppb	2.606 ppb	100.503 %
Concentration per Run 1	-0.019 ppb	-0.010 ppb	0.008 ppb	3.483 ppb	0.004 ppb	0.500 ppb	1.461 ppb	2.455 ppb	97.881 %
Concentration per Run 2	-0.021 ppb	0.032 ppb	0.197 ppb	0.859 ppb	0.004 ppb	0.752 ppb	1.389 ppb	2.926 ppb	99.652 %
Concentration per Run 3	-0.024 ppb	0.041 ppb	0.198 ppb	3.402 ppb	0.006 ppb	0.705 ppb	1.316 ppb	2.437 ppb	103.977 %
Concentration RSD	12.7 %	129.9 %	81.7 %	57.8 %	24.8 %	20.6 %	5.2 %	10.6 %	3.1 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.153 ppb	0.021 ppb	0.037 ppb	0.022 ppb	100.348 %	0.005 ppb	0.004 ppb	99.871 %	-0.002 ppb
Concentration per Run 1	0.349 ppb	-0.059 ppb	0.059 ppb	0.033 ppb	97.136 %	0.005 ppb	0.000 ppb	96.633 %	-0.017 ppb
Concentration per Run 2	-0.060 ppb	0.062 ppb	0.016 ppb	0.063 ppb	100.379 %	0.006 ppb	0.006 ppb	98.781 %	-0.004 ppb
Concentration per Run 3	0.170 ppb	0.061 ppb	0.037 ppb	-0.031 ppb	103.527 %	0.005 ppb	0.006 ppb	104.200 %	0.016 ppb
Concentration RSD	133.7 %	325.6 %	57.9 %	223.6 %	3.2 %	9.0 %	86.7 %	3.9 %	1,027.7 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	0.065 ppb	101.195 %	98.510 %	0.002 ppb	0.172 ppb
Concentration per Run 1	0.100 ppb	98.362 %	96.180 %	-0.001 ppb	0.183 ppb
Concentration per Run 2	0.000 ppb	102.447 %	98.108 %	0.004 ppb	0.174 ppb
Concentration per Run 3	0.095 ppb	102.776 %	101.243 %	0.003 ppb	0.159 ppb
Concentration RSD	86.7 %	2.4 %	2.6 %	121.8 %	7.2 %

Alpha ICPMSQ Data with SRD

6/26/2024 10:46:24 AM

Analysis index:	2	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	CAL LOT #M24-1045	Rack	0		
Analysis started at:	6/26/2024 3:28:01 AM	Vial	1		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	101.635 %	95.695 %	0.006 ppb	15.175 ppb	0.909 ppb	1.005 ppb	26.759 ppb	19.066 ppb	99.864 %
Concentration per Run 1	103.183 %	91.697 %	0.011 ppb	18.489 ppb	0.570 ppb	0.742 ppb	25.862 ppb	23.813 ppb	100.658 %
Concentration per Run 2	101.551 %	96.494 %	-0.001 ppb	11.922 ppb	1.358 ppb	1.002 ppb	27.332 ppb	15.311 ppb	100.066 %
Concentration per Run 3	100.171 %	98.893 %	0.007 ppb	15.114 ppb	0.799 ppb	1.271 ppb	27.085 ppb	18.076 ppb	98.868 %
Concentration RSD	1.5 %	3.8 %	108.1 %	21.6 %	44.6 %	26.3 %	2.9 %	22.7 %	0.9 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	-0.054 ppb	0.017 ppb	0.142 ppb	1.172 ppb	0.018 ppb	0.732 ppb	1.355 ppb	2.750 ppb	97.882 %
Concentration per Run 1	-0.034 ppb	0.070 ppb	0.069 ppb	1.368 ppb	0.025 ppb	0.616 ppb	1.425 ppb	2.582 ppb	94.839 %
Concentration per Run 2	-0.071 ppb	0.055 ppb	0.094 ppb	-0.592 ppb	0.013 ppb	0.782 ppb	1.369 ppb	2.945 ppb	93.234 %
Concentration per Run 3	-0.057 ppb	-0.075 ppb	0.262 ppb	2.741 ppb	0.016 ppb	0.798 ppb	1.272 ppb	2.723 ppb	105.573 %
Concentration RSD	33.8 %	476.6 %	73.9 %	142.9 %	33.2 %	13.8 %	5.7 %	6.7 %	6.9 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.265 ppb	-0.056 ppb	0.055 ppb	-0.007 ppb	100.003 %	0.000 ppb	0.000 ppb	102.187 %	0.014 ppb
Concentration per Run 1	0.437 ppb	0.099 ppb	0.035 ppb	-0.021 ppb	97.584 %	0.001 ppb	0.000 ppb	98.802 %	0.014 ppb
Concentration per Run 2	0.343 ppb	-0.194 ppb	0.083 ppb	0.001 ppb	99.144 %	0.002 ppb	0.000 ppb	99.970 %	0.009 ppb
Concentration per Run 3	0.014 ppb	-0.074 ppb	0.045 ppb	-0.001 ppb	103.280 %	-0.004 ppb	0.000 ppb	107.791 %	0.018 ppb
Concentration RSD	84.1 %	262.1 %	46.8 %	170.5 %	2.9 %	775.8 %	N/A	4.8 %	34.4 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	0.047 ppb	100.557 %	98.842 %	0.002 ppb	0.165 ppb
Concentration per Run 1	0.050 ppb	95.610 %	93.067 %	-0.001 ppb	0.178 ppb
Concentration per Run 2	0.000 ppb	100.903 %	99.153 %	0.003 ppb	0.160 ppb
Concentration per Run 3	0.092 ppb	105.157 %	104.306 %	0.004 ppb	0.157 ppb
Concentration RSD	97.1 %	4.8 %	5.7 %	129.7 %	6.9 %

Alpha ICPMSQ Data with SRD

6/26/2024 10:46:24 AM

Analysis index:	3	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	Blank EJF ICPMSQ	Rack	4		
Analysis started at:	6/26/2024 3:32:38 AM	Vial	49		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	100.000 %	100.000 %	0.000 ppb	0.000 ppb	0.000 ppb	0.000 ppb	0.000 ppb	0.000 ppb	100.000 %
Concentration per Run	100.000 %	100.000 %	0.000 ppb	0.000 ppb	0.000 ppb	0.000 ppb	0.000 ppb	0.000 ppb	100.000 %
Concentration RSD	0.0 %	0.0 %	0.4 %	0.1 %	0.3 %	0.3 %	0.0 %	0.2 %	0.0 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.000 ppb	0.000 ppb	0.000 ppb	0.000 ppb	0.000 ppb	0.000 ppb	0.000 ppb	0.000 ppb	100.000 %
Concentration per Run	0.000 ppb	0.000 ppb	0.000 ppb	0.000 ppb	0.000 ppb	0.000 ppb	0.000 ppb	0.000 ppb	100.000 %
Concentration RSD	0.2 %	0.1 %	0.5 %	0.2 %	0.3 %	0.2 %	0.4 %	0.1 %	0.0 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.000 ppb	0.000 ppb	0.000 ppb	0.000 ppb	100.000 %	0.000 ppb	0.000 ppb	100.000 %	0.000 ppb
Concentration per Run	0.000 ppb	0.000 ppb	0.000 ppb	0.000 ppb	100.000 %	0.000 ppb	0.000 ppb	100.000 %	0.000 ppb
Concentration RSD	0.1 %	0.4 %	0.2 %	0.9 %	0.1 %	0.4 %		0.1 %	0.2 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	0.000 ppb	100.000 %	100.000 %	0.000 ppb	0.000 ppb
Concentration per Run	0.000 ppb	100.000 %	100.000 %	0.000 ppb	0.000 ppb
Concentration RSD		0.1 %	0.1 %	0.7 %	0.2 %

Alpha ICPMSQ Data with SRD

6/26/2024 10:46:24 AM

Analysis index:	4	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	0.2/20 Cal	Rack	0		
Analysis started at:	6/26/2024 3:37:20 AM	Vial	2		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	99.761 %	99.077 %	0.213 ppb	23.306 ppb	23.392 ppb	2.201 ppb	34.309 ppb	150.832 ppb	102.176 %
Concentration per Run 1	101.863 %	93.727 %	0.218 ppb	34.241 ppb	25.839 ppb	2.758 ppb	47.258 ppb	131.622 ppb	101.940 %
Concentration per Run 2	100.210 %	99.446 %	0.191 ppb	17.598 ppb	20.401 ppb	2.330 ppb	18.443 ppb	136.467 ppb	103.526 %
Concentration per Run 3	97.209 %	104.059 %	0.231 ppb	18.080 ppb	23.937 ppb	1.515 ppb	37.226 ppb	184.408 ppb	101.063 %
Concentration RSD	2.4 %	5.2 %	9.5 %	40.6 %	11.8 %	28.7 %	42.6 %	19.3 %	1.2 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.212 ppb	0.233 ppb	0.114 ppb	19.097 ppb	0.215 ppb	0.255 ppb	0.362 ppb	1.259 ppb	101.240 %
Concentration per Run 1	0.178 ppb	0.289 ppb	0.065 ppb	17.178 ppb	0.241 ppb	0.207 ppb	0.418 ppb	1.286 ppb	95.437 %
Concentration per Run 2	0.239 ppb	0.258 ppb	0.202 ppb	18.866 ppb	0.218 ppb	0.281 ppb	0.293 ppb	1.157 ppb	96.884 %
Concentration per Run 3	0.219 ppb	0.151 ppb	0.074 ppb	21.247 ppb	0.185 ppb	0.276 ppb	0.377 ppb	1.334 ppb	111.398 %
Concentration RSD	14.6 %	31.3 %	67.6 %	10.7 %	13.2 %	16.2 %	17.6 %	7.3 %	8.7 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.148 ppb	0.158 ppb	0.335 ppb	0.212 ppb	100.985 %	0.202 ppb	0.209 ppb	103.528 %	0.201 ppb
Concentration per Run 1	0.232 ppb	-0.039 ppb	0.341 ppb	0.142 ppb	96.973 %	0.202 ppb	0.250 ppb	96.243 %	0.176 ppb
Concentration per Run 2	0.297 ppb	0.236 ppb	0.337 ppb	0.231 ppb	100.883 %	0.209 ppb	0.194 ppb	100.897 %	0.201 ppb
Concentration per Run 3	-0.084 ppb	0.276 ppb	0.328 ppb	0.263 ppb	105.099 %	0.196 ppb	0.182 ppb	113.442 %	0.226 ppb
Concentration RSD	137.2 %	108.5 %	2.0 %	29.5 %	4.0 %	3.2 %	17.5 %	8.6 %	12.6 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	0.255 ppb	102.520 %	101.979 %	0.174 ppb	0.214 ppb
Concentration per Run 1	0.151 ppb	98.374 %	95.103 %	0.189 ppb	0.216 ppb
Concentration per Run 2	0.436 ppb	100.869 %	100.558 %	0.178 ppb	0.212 ppb
Concentration per Run 3	0.176 ppb	108.317 %	110.277 %	0.156 ppb	0.216 ppb
Concentration RSD	62.1 %	5.0 %	7.5 %	9.6 %	1.1 %

Alpha ICPMSQ Data with SRD

6/26/2024 10:46:24 AM

Analysis index:	5	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	1/100 Cal	Rack	0		
Analysis started at:	6/26/2024 3:41:58 AM	Vial	3		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	99.686 %	96.617 %	1.035 ppb	114.934 ppb	109.607 ppb	1.853 ppb	106.049 ppb	215.370 ppb	102.523 %
Concentration per Run 1	102.054 %	92.620 %	1.022 ppb	123.181 ppb	126.818 ppb	0.739 ppb	125.593 ppb	219.820 ppb	102.786 %
Concentration per Run 2	99.733 %	93.911 %	1.041 ppb	119.379 ppb	109.769 ppb	2.620 ppb	110.463 ppb	213.378 ppb	102.606 %
Concentration per Run 3	97.271 %	103.321 %	1.042 ppb	102.243 ppb	92.233 ppb	2.201 ppb	82.092 ppb	212.911 ppb	102.177 %
Concentration RSD	2.4 %	6.0 %	1.1 %	9.7 %	15.8 %	53.3 %	20.8 %	1.8 %	0.3 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.807 ppb	1.022 ppb	1.009 ppb	97.481 ppb	1.085 ppb	1.165 ppb	1.022 ppb	1.448 ppb	101.327 %
Concentration per Run 1	0.783 ppb	0.923 ppb	0.857 ppb	107.789 ppb	1.169 ppb	1.162 ppb	1.062 ppb	1.450 ppb	93.190 %
Concentration per Run 2	0.832 ppb	0.962 ppb	1.068 ppb	95.108 ppb	1.096 ppb	1.174 ppb	0.955 ppb	1.407 ppb	104.216 %
Concentration per Run 3	0.806 ppb	1.180 ppb	1.101 ppb	89.545 ppb	0.990 ppb	1.159 ppb	1.049 ppb	1.487 ppb	106.575 %
Concentration RSD	3.0 %	13.6 %	13.1 %	9.6 %	8.3 %	0.7 %	5.7 %	2.8 %	7.1 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.838 ppb	1.230 ppb	1.029 ppb	0.974 ppb	102.270 %	0.998 ppb	1.045 ppb	104.426 %	0.962 ppb
Concentration per Run 1	1.034 ppb	1.586 ppb	1.115 ppb	0.960 ppb	98.705 %	1.032 ppb	1.128 ppb	98.882 %	0.974 ppb
Concentration per Run 2	0.924 ppb	1.248 ppb	0.945 ppb	0.897 ppb	103.563 %	0.972 ppb	1.150 ppb	107.942 %	0.983 ppb
Concentration per Run 3	0.555 ppb	0.858 ppb	1.026 ppb	1.064 ppb	104.542 %	0.991 ppb	0.858 ppb	106.453 %	0.928 ppb
Concentration RSD	30.0 %	29.6 %	8.3 %	8.7 %	3.1 %	3.0 %	15.5 %	4.7 %	3.1 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	1.161 ppb	105.221 %	103.971 %	0.922 ppb	1.009 ppb
Concentration per Run 1	0.994 ppb	98.003 %	99.310 %	0.925 ppb	1.036 ppb
Concentration per Run 2	1.261 ppb	109.196 %	104.853 %	0.950 ppb	0.998 ppb
Concentration per Run 3	1.229 ppb	108.464 %	107.751 %	0.892 ppb	0.993 ppb
Concentration RSD	12.6 %	6.0 %	4.1 %	3.1 %	2.3 %

Alpha ICPMSQ Data with SRD

6/26/2024 10:46:24 AM

Analysis index:	6	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	10/1000 Cal	Rack	0		
Analysis started at:	6/26/2024 3:46:36 AM	Vial	4		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	98.774 %	95.572 %	10.033 ppb	1,062.440 ppb	1,101.490 ppb	11.588 ppb	1,058.883 ppb	1,083.143 ppb	103.364 %
Concentration per Run 1	100.837 %	93.358 %	9.932 ppb	1,079.226 ppb	1,139.928 ppb	13.722 ppb	1,082.783 ppb	1,231.504 ppb	102.379 %
Concentration per Run 2	98.245 %	99.262 %	10.131 ppb	1,040.143 ppb	1,087.621 ppb	12.155 ppb	1,099.242 ppb	952.354 ppb	103.039 %
Concentration per Run 3	97.241 %	94.096 %	10.037 ppb	1,067.949 ppb	1,076.920 ppb	8.886 ppb	994.623 ppb	1,065.570 ppb	104.674 %
Concentration RSD	1.9 %	3.4 %	1.0 %	1.9 %	3.1 %	21.3 %	5.3 %	13.0 %	1.1 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	9.010 ppb	9.098 ppb	9.612 ppb	1,023.450 ppb	10.206 ppb	10.099 ppb	10.234 ppb	10.484 ppb	105.920 %
Concentration per Run 1	9.672 ppb	9.415 ppb	9.897 ppb	1,074.699 ppb	10.920 ppb	10.848 ppb	10.578 ppb	10.813 ppb	94.494 %
Concentration per Run 2	7.795 ppb	8.229 ppb	9.140 ppb	955.452 ppb	9.407 ppb	9.258 ppb	9.660 ppb	10.004 ppb	117.501 %
Concentration per Run 3	9.562 ppb	9.651 ppb	9.798 ppb	1,040.200 ppb	10.292 ppb	10.191 ppb	10.465 ppb	10.635 ppb	105.766 %
Concentration RSD	11.7 %	8.4 %	4.3 %	6.0 %	7.4 %	7.9 %	4.9 %	4.1 %	10.9 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	8.908 ppb	9.833 ppb	9.628 ppb	9.806 ppb	104.893 %	9.994 ppb	9.712 ppb	105.849 %	9.929 ppb
Concentration per Run 1	9.985 ppb	8.974 ppb	9.803 ppb	10.182 ppb	102.058 %	10.035 ppb	9.752 ppb	105.011 %	9.798 ppb
Concentration per Run 2	8.068 ppb	11.112 ppb	9.634 ppb	8.998 ppb	106.736 %	9.897 ppb	9.639 ppb	109.157 %	9.814 ppb
Concentration per Run 3	8.670 ppb	9.414 ppb	9.448 ppb	10.238 ppb	105.884 %	10.052 ppb	9.746 ppb	103.379 %	10.175 ppb
Concentration RSD	11.0 %	11.5 %	1.8 %	7.1 %	2.4 %	0.9 %	0.7 %	2.8 %	2.1 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	10.267 ppb	106.050 %	105.818 %	9.293 ppb	9.945 ppb
Concentration per Run 1	10.269 ppb	101.708 %	101.042 %	9.335 ppb	10.196 ppb
Concentration per Run 2	11.214 ppb	109.803 %	109.321 %	8.900 ppb	9.798 ppb
Concentration per Run 3	9.316 ppb	106.639 %	107.090 %	9.643 ppb	9.841 ppb
Concentration RSD	9.2 %	3.8 %	4.0 %	4.0 %	2.2 %

Alpha ICPMSQ Data with SRD

6/26/2024 10:46:24 AM

Analysis index:	7	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	60/6000 Cal	Rack	0		
Analysis started at:	6/26/2024 3:51:15 AM	Vial	5		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	94.789 %	96.064 %	60.555 ppb	6,302.838 ppb	6,367.449 ppb	61.052 ppb	6,329.058 ppb	6,126.273 ppb	109.204 %
Concentration per Run 1	97.585 %	92.804 %	60.056 ppb	6,456.011 ppb	6,490.677 ppb	62.950 ppb	6,348.418 ppb	6,070.888 ppb	110.270 %
Concentration per Run 2	95.051 %	97.601 %	60.007 ppb	6,383.963 ppb	6,556.328 ppb	61.722 ppb	6,490.935 ppb	6,152.470 ppb	109.779 %
Concentration per Run 3	91.731 %	97.786 %	61.601 ppb	6,068.542 ppb	6,055.342 ppb	58.483 ppb	6,147.822 ppb	6,155.460 ppb	107.564 %
Concentration RSD	3.1 %	2.9 %	1.5 %	3.3 %	4.3 %	3.8 %	2.7 %	0.8 %	1.3 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	59.672 ppb	59.343 ppb	62.460 ppb	6,205.307 ppb	62.017 ppb	59.981 ppb	62.493 ppb	62.382 ppb	100.701 %
Concentration per Run 1	60.044 ppb	59.106 ppb	60.673 ppb	6,316.972 ppb	64.077 ppb	61.181 ppb	63.172 ppb	62.766 ppb	97.029 %
Concentration per Run 2	58.442 ppb	59.105 ppb	66.617 ppb	6,277.730 ppb	60.005 ppb	58.184 ppb	60.475 ppb	62.071 ppb	105.340 %
Concentration per Run 3	60.529 ppb	59.819 ppb	60.088 ppb	6,021.218 ppb	61.969 ppb	60.576 ppb	63.832 ppb	62.308 ppb	99.733 %
Concentration RSD	1.8 %	0.7 %	5.8 %	2.6 %	3.3 %	2.6 %	2.8 %	0.6 %	4.2 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	60.185 ppb	64.233 ppb	60.364 ppb	59.591 ppb	103.390 %	61.077 ppb	60.917 ppb	107.891 %	60.004 ppb
Concentration per Run 1	61.103 ppb	62.399 ppb	58.893 ppb	58.768 ppb	100.145 %	62.670 ppb	63.097 ppb	102.387 %	61.104 ppb
Concentration per Run 2	61.049 ppb	69.877 ppb	63.288 ppb	58.522 ppb	106.844 %	60.492 ppb	58.514 ppb	114.521 %	59.739 ppb
Concentration per Run 3	58.403 ppb	60.421 ppb	58.911 ppb	61.482 ppb	103.181 %	60.068 ppb	61.140 ppb	106.765 %	59.170 ppb
Concentration RSD	2.6 %	7.8 %	4.2 %	2.8 %	3.2 %	2.3 %	3.8 %	5.7 %	1.7 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	57.206 ppb	110.430 %	108.182 %	58.823 ppb	60.028 ppb
Concentration per Run 1	56.424 ppb	104.657 %	101.641 %	60.030 ppb	62.764 ppb
Concentration per Run 2	54.981 ppb	118.251 %	117.182 %	55.196 ppb	55.657 ppb
Concentration per Run 3	60.212 ppb	108.381 %	105.721 %	61.243 ppb	61.663 ppb
Concentration RSD	4.7 %	6.4 %	7.4 %	5.4 %	6.4 %

Alpha ICPMSQ Data with SRD

6/26/2024 10:46:24 AM

Analysis index:	8	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	120/12000 Cal	Rack	0		
Analysis started at:	6/26/2024 3:55:54 AM	Vial	6		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	92.062 %	100.308 %	119.720 ppb	11,843.248 ppb	11,807.732 ppb	119.331 ppb	11,830.490 ppb	11,928.756 ppb	111.446 %
Concentration per Run 1	94.202 %	91.697 %	118.744 ppb	12,645.116 ppb	12,613.512 ppb	123.212 ppb	12,339.776 ppb	12,767.455 ppb	111.798 %
Concentration per Run 2	91.422 %	109.041 %	121.685 ppb	11,419.147 ppb	11,441.473 ppb	117.042 ppb	12,232.915 ppb	12,221.546 ppb	111.667 %
Concentration per Run 3	90.562 %	100.185 %	118.730 ppb	11,465.479 ppb	11,368.213 ppb	117.739 ppb	10,918.778 ppb	10,797.265 ppb	110.872 %
Concentration RSD	2.1 %	8.6 %	1.4 %	5.9 %	5.9 %	2.8 %	6.7 %	8.5 %	0.4 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	120.248 ppb	120.403 ppb	118.803 ppb	11,895.415 ppb	118.974 ppb	163.895 ppb	118.734 ppb	118.763 ppb	102.761 %
Concentration per Run 1	124.549 ppb	126.022 ppb	126.409 ppb	12,239.310 ppb	123.267 ppb	172.062 ppb	123.979 ppb	121.422 ppb	99.043 %
Concentration per Run 2	119.605 ppb	119.424 ppb	118.319 ppb	12,096.716 ppb	119.823 ppb	161.774 ppb	117.747 ppb	121.692 ppb	102.431 %
Concentration per Run 3	116.590 ppb	115.764 ppb	111.680 ppb	11,350.219 ppb	113.831 ppb	157.850 ppb	114.475 ppb	113.176 ppb	106.808 %
Concentration RSD	3.3 %	4.3 %	6.2 %	4.0 %	4.0 %	4.5 %	4.1 %	4.1 %	3.8 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	115.434 ppb	117.896 ppb	119.848 ppb	120.221 ppb	104.449 %	119.462 ppb	119.565 ppb	110.626 %	120.004 ppb
Concentration per Run 1	117.298 ppb	121.493 ppb	118.060 ppb	118.676 ppb	99.674 %	123.247 ppb	125.322 ppb	103.017 %	124.004 ppb
Concentration per Run 2	120.235 ppb	124.856 ppb	129.152 ppb	123.697 ppb	108.298 %	116.213 ppb	116.396 ppb	119.792 %	117.377 ppb
Concentration per Run 3	108.768 ppb	107.339 ppb	112.333 ppb	118.290 ppb	105.375 %	118.926 ppb	116.977 ppb	109.068 %	118.632 ppb
Concentration RSD	5.2 %	7.9 %	7.1 %	2.5 %	4.2 %	3.0 %	4.2 %	7.7 %	2.9 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	121.373 ppb	112.991 %	112.984 %	120.648 ppb	119.991 ppb
Concentration per Run 1	120.721 ppb	107.504 %	106.695 %	123.044 ppb	123.239 ppb
Concentration per Run 2	124.889 ppb	118.901 %	119.952 %	116.737 ppb	114.585 ppb
Concentration per Run 3	118.510 ppb	112.568 %	112.304 %	122.163 ppb	122.147 ppb
Concentration RSD	2.7 %	5.1 %	5.9 %	2.8 %	3.9 %

Alpha ICPMSQ Data with SRD

6/26/2024 10:46:24 AM

Analysis index:	9	User name	ALPHALAB\Metals-Instrument	Comment	Sr Inteference Check
Analysis label:	Sr 200ppb	Rack	4		
Analysis started at:	6/26/2024 4:00:54 AM	Vial	55		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	90.987 %	94.280 %	0.020 ppb	-14.249 ppb	1.060 ppb	1.327 ppb	1.839 ppb	0.242 ppb	93.646 %
Concentration per Run 1	92.834 %	88.745 %	0.018 ppb	-5.809 ppb	-0.743 ppb	1.626 ppb	6.238 ppb	-139.329 ppb	94.490 %
Concentration per Run 2	91.334 %	91.144 %	0.014 ppb	-15.531 ppb	2.804 ppb	1.800 ppb	19.731 ppb	146.692 ppb	94.232 %
Concentration per Run 3	88.791 %	102.952 %	0.027 ppb	-21.406 ppb	1.119 ppb	0.554 ppb	-20.453 ppb	-6.637 ppb	92.217 %
Concentration RSD	2.2 %	8.1 %	35.3 %	55.3 %	167.4 %	50.9 %	1,112.2 %	59,198.9 %	1.3 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	-0.042 ppb	0.096 ppb	0.132 ppb	26.434 ppb	0.020 ppb	0.090 ppb	0.121 ppb	1.670 ppb	99.117 %
Concentration per Run 1	-0.016 ppb	0.215 ppb	-0.007 ppb	28.540 ppb	0.019 ppb	0.076 ppb	0.073 ppb	1.673 ppb	95.638 %
Concentration per Run 2	-0.035 ppb	0.095 ppb	0.198 ppb	30.054 ppb	0.013 ppb	0.105 ppb	0.139 ppb	1.762 ppb	95.303 %
Concentration per Run 3	-0.074 ppb	-0.022 ppb	0.206 ppb	20.709 ppb	0.026 ppb	0.089 ppb	0.151 ppb	1.575 ppb	106.409 %
Concentration RSD	71.7 %	123.4 %	91.4 %	19.0 %	33.6 %	15.7 %	34.8 %	5.6 %	6.4 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	-0.285 ppb	0.680 ppb	192.812 ppb	1.275 ppb	103.666 %	0.016 ppb	0.004 ppb	108.833 %	0.119 ppb
Concentration per Run 1	0.102 ppb	0.812 ppb	191.989 ppb	1.509 ppb	99.657 %	0.028 ppb	0.006 ppb	102.915 %	0.150 ppb
Concentration per Run 2	-0.537 ppb	0.503 ppb	188.906 ppb	1.363 ppb	103.726 %	0.009 ppb	0.005 ppb	106.078 %	0.083 ppb
Concentration per Run 3	-0.420 ppb	0.725 ppb	197.541 ppb	0.954 ppb	107.615 %	0.010 ppb	0.000 ppb	117.508 %	0.124 ppb
Concentration RSD	119.4 %	23.4 %	2.3 %	22.5 %	3.8 %	67.8 %	86.6 %	7.1 %	28.4 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	0.089 ppb	113.157 %	109.011 %	0.600 ppb	0.039 ppb
Concentration per Run 1	0.141 ppb	105.343 %	103.758 %	0.421 ppb	0.049 ppb
Concentration per Run 2	0.044 ppb	114.069 %	105.000 %	0.721 ppb	0.039 ppb
Concentration per Run 3	0.082 ppb	120.060 %	118.276 %	0.657 ppb	0.031 ppb
Concentration RSD	54.5 %	6.5 %	7.4 %	26.3 %	23.2 %

Alpha ICPMSQ Data with SRD

6/26/2024 10:46:24 AM

Analysis index:	10	User name	ALPHALAB\Metals-Instrument	Comment	ICV
Analysis label:	ICV	Rack	0		
Analysis started at:	6/26/2024 4:05:36 AM	Vial	7		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	89.497 %	89.422 %	51.056 ppb	5,129.920 ppb	5,184.970 ppb	46.899 ppb	4,919.420 ppb	5,211.483 ppb	95.467 %
Concentration per Run 1	91.981 %	85.055 %	50.801 ppb	5,282.639 ppb	5,354.551 ppb	47.631 ppb	4,983.135 ppb	5,406.856 ppb	96.837 %
Concentration per Run 2	89.248 %	90.221 %	51.370 ppb	5,097.384 ppb	5,215.015 ppb	46.102 ppb	4,968.423 ppb	5,467.625 ppb	95.316 %
Concentration per Run 3	87.261 %	92.989 %	50.998 ppb	5,009.736 ppb	4,985.346 ppb	46.964 ppb	4,806.703 ppb	4,759.968 ppb	94.248 %
Recovery Percentage 1			102.112 %	102.598 %	103.699 %	93.798 %	98.388 %	104.230 %	
Concentration RSD	2.6 %	4.5 %	0.6 %	2.7 %	3.6 %	1.6 %	2.0 %	7.5 %	1.4 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	52.351 ppb	54.066 ppb	49.315 ppb	5,022.465 ppb	51.070 ppb	48.843 ppb	50.604 ppb	50.223 ppb	97.782 %
Concentration per Run 1	53.421 ppb	56.849 ppb	50.112 ppb	5,202.726 ppb	53.030 ppb	51.860 ppb	53.542 ppb	52.020 ppb	91.557 %
Concentration per Run 2	52.146 ppb	53.089 ppb	48.122 ppb	4,996.840 ppb	51.547 ppb	48.372 ppb	50.080 ppb	49.901 ppb	98.423 %
Concentration per Run 3	51.485 ppb	52.261 ppb	49.709 ppb	4,867.829 ppb	48.632 ppb	46.296 ppb	48.191 ppb	48.748 ppb	103.366 %
Recovery Percentage 1	104.701 %	108.133 %	98.629 %	100.449 %	102.140 %	97.685 %	101.209 %	100.445 %	
Concentration RSD	1.9 %	4.5 %	2.1 %	3.4 %	4.4 %	5.8 %	5.4 %	3.3 %	6.1 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	47.943 ppb	48.336 ppb	47.154 ppb	50.319 ppb	100.158 %	50.141 ppb	51.811 ppb	102.003 %	50.604 ppb
Concentration per Run 1	49.497 ppb	47.092 ppb	47.470 ppb	49.582 ppb	93.959 %	51.419 ppb	52.939 ppb	96.182 %	51.231 ppb
Concentration per Run 2	48.743 ppb	49.763 ppb	47.660 ppb	50.434 ppb	102.491 %	49.462 ppb	51.382 ppb	104.950 %	51.267 ppb
Concentration per Run 3	45.589 ppb	48.152 ppb	46.333 ppb	50.941 ppb	104.023 %	49.543 ppb	51.111 ppb	104.878 %	49.315 ppb
Recovery Percentage 1	95.886 %	96.671 %	94.309 %	100.638 %		100.282 %	103.622 %		101.209 %
Concentration RSD	4.3 %	2.8 %	1.5 %	1.4 %	5.4 %	2.2 %	1.9 %	4.9 %	2.2 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	51.646 ppb	109.321 %	104.907 %	51.817 ppb	53.423 ppb
Concentration per Run 1	51.864 ppb	103.409 %	97.378 %	54.182 ppb	55.845 ppb
Concentration per Run 2	51.822 ppb	111.607 %	107.192 %	49.610 ppb	52.391 ppb
Concentration per Run 3	51.251 ppb	112.946 %	110.152 %	51.658 ppb	52.032 ppb
Recovery Percentage 1	103.292 %			103.634 %	106.846 %
Concentration RSD	0.7 %	4.7 %	6.4 %	4.4 %	3.9 %

Alpha ICPMSQ Data with SRD

6/26/2024 10:46:24 AM

Analysis index:	11	User name	ALPHALAB\Metals-Instrument	Comment	ICB
Analysis label:	ICB	Rack	0		
Analysis started at:	6/26/2024 4:10:16 AM	Vial	10		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	89.881 %	83.518 %	0.015 ppb	-1.041 ppb	-0.550 ppb	0.520 ppb	19.167 ppb	-9.051 ppb	92.303 %
Concentration per Run 1	91.267 %	73.985 %	0.012 ppb	16.928 ppb	-0.581 ppb	1.551 ppb	42.944 ppb	-13.641 ppb	93.182 %
Concentration per Run 2	90.280 %	92.251 %	0.012 ppb	-20.289 ppb	-0.357 ppb	-0.133 ppb	2.940 ppb	-4.111 ppb	91.895 %
Concentration per Run 3	88.096 %	84.317 %	0.022 ppb	0.236 ppb	-0.713 ppb	0.144 ppb	11.616 ppb	-9.402 ppb	91.834 %
Recovery Percentage 1			3.021 %	-1.041 %	-0.786 %	5.205 %	19.167 %	-9.051 %	
Concentration RSD	1.8 %	11.0 %	38.7 %	1,790.0 %	32.7 %	173.5 %	109.8 %	52.8 %	0.8 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	-0.011 ppb	0.055 ppb	0.036 ppb	8.878 ppb	0.008 ppb	-0.052 ppb	0.012 ppb	-0.061 ppb	95.194 %
Concentration per Run 1	0.060 ppb	0.134 ppb	0.194 ppb	11.703 ppb	0.013 ppb	-0.049 ppb	-0.034 ppb	-0.078 ppb	84.943 %
Concentration per Run 2	-0.022 ppb	-0.017 ppb	-0.104 ppb	9.616 ppb	0.006 ppb	-0.104 ppb	0.021 ppb	-0.077 ppb	103.720 %
Concentration per Run 3	-0.070 ppb	0.048 ppb	0.020 ppb	5.315 ppb	0.004 ppb	-0.001 ppb	0.050 ppb	-0.029 ppb	96.919 %
Recovery Percentage 1	-0.214 %	5.519 %	3.639 %	17.755 %	1.592 %	-2.575 %	1.232 %	-1.229 %	
Concentration RSD	613.0 %	137.2 %	411.1 %	36.7 %	57.9 %	100.6 %	347.4 %	45.3 %	10.0 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	-0.348 ppb	0.394 ppb	0.033 ppb	0.922 ppb	101.296 %	0.004 ppb	0.010 ppb	101.333 %	0.076 ppb
Concentration per Run 1	-0.062 ppb	0.768 ppb	0.032 ppb	1.070 ppb	97.629 %	0.006 ppb	0.024 ppb	92.693 %	0.080 ppb
Concentration per Run 2	-0.611 ppb	0.331 ppb	0.003 ppb	0.805 ppb	102.181 %	-0.002 ppb	0.006 ppb	103.008 %	0.070 ppb
Concentration per Run 3	-0.370 ppb	0.083 ppb	0.063 ppb	0.891 ppb	104.080 %	0.006 ppb	0.000 ppb	108.298 %	0.077 ppb
Recovery Percentage 1	-69.548 %	7.883 %	0.328 %	46.110 %		0.890 %	4.994 %		1.892 %
Concentration RSD	79.2 %	88.0 %	92.8 %	14.6 %	3.3 %	130.2 %	127.8 %	7.8 %	6.8 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	0.015 ppb	107.616 %	105.057 %	0.525 ppb	0.022 ppb
Concentration per Run 1	0.000 ppb	103.995 %	100.343 %	0.345 ppb	0.029 ppb
Concentration per Run 2	0.046 ppb	107.661 %	105.953 %	0.652 ppb	0.022 ppb
Concentration per Run 3	0.000 ppb	111.191 %	108.875 %	0.576 ppb	0.016 ppb
Recovery Percentage 1	3.096 %			52.457 %	2.222 %
Concentration RSD	173.2 %	3.3 %	4.1 %	30.5 %	29.1 %

Alpha ICPMSQ Data with SRD

6/26/2024 10:46:24 AM

Analysis index:	12	User name	ALPHALAB\Metals-Instrument	Comment	ICB
Analysis label:	ICB	Rack	0		
Analysis started at:	6/26/2024 4:18:57 AM	Vial	10		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	92.294 %	93.481 %	0.011 ppb	-20.036 ppb	-0.637 ppb	0.083 ppb	2.496 ppb	2.072 ppb	93.849 %
Concentration per Run 1	94.556 %	93.911 %	0.011 ppb	-23.576 ppb	-1.650 ppb	-0.215 ppb	11.865 ppb	1.265 ppb	94.333 %
Concentration per Run 2	93.005 %	92.989 %	0.010 ppb	-16.613 ppb	-0.771 ppb	-0.091 ppb	-0.962 ppb	4.930 ppb	93.350 %
Concentration per Run 3	89.322 %	93.542 %	0.013 ppb	-19.917 ppb	0.512 ppb	0.556 ppb	-3.415 ppb	0.019 ppb	93.862 %
Recovery Percentage 1			2.280 %	-20.036 %	-0.910 %	0.834 %	2.496 %	2.072 %	
Concentration RSD	2.9 %	0.5 %	14.1 %	17.4 %	170.8 %	496.4 %	328.8 %	123.2 %	0.5 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	-0.053 ppb	0.050 ppb	-0.015 ppb	1.724 ppb	0.001 ppb	-0.041 ppb	-0.024 ppb	-0.016 ppb	96.167 %
Concentration per Run 1	-0.053 ppb	0.100 ppb	-0.035 ppb	0.704 ppb	0.002 ppb	-0.049 ppb	-0.023 ppb	-0.014 ppb	94.469 %
Concentration per Run 2	-0.035 ppb	-0.016 ppb	-0.061 ppb	2.003 ppb	0.002 ppb	0.037 ppb	-0.031 ppb	0.006 ppb	94.892 %
Concentration per Run 3	-0.072 ppb	0.067 ppb	0.053 ppb	2.466 ppb	0.001 ppb	-0.110 ppb	-0.018 ppb	-0.040 ppb	99.139 %
Recovery Percentage 1	-1.062 %	5.050 %	-1.450 %	3.449 %	0.282 %	-2.035 %	-2.403 %	-0.324 %	
Concentration RSD	34.8 %	118.3 %	413.2 %	53.0 %	17.0 %	181.9 %	26.8 %	143.8 %	2.7 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	-0.496 ppb	0.083 ppb	0.019 ppb	0.254 ppb	101.491 %	0.001 ppb	0.006 ppb	102.437 %	0.013 ppb
Concentration per Run 1	-0.195 ppb	-0.065 ppb	0.003 ppb	0.159 ppb	100.469 %	0.003 ppb	0.006 ppb	98.499 %	0.022 ppb
Concentration per Run 2	-0.367 ppb	0.515 ppb	0.020 ppb	0.261 ppb	102.330 %	0.001 ppb	0.006 ppb	103.339 %	0.020 ppb
Concentration per Run 3	-0.925 ppb	-0.201 ppb	0.034 ppb	0.342 ppb	101.672 %	0.001 ppb	0.006 ppb	105.474 %	-0.002 ppb
Recovery Percentage 1	-99.158 %	1.667 %	0.191 %	12.704 %		0.371 %	2.815 %		0.335 %
Concentration RSD	76.9 %	456.4 %	82.1 %	36.0 %	0.9 %	103.3 %	2.6 %	3.5 %	97.1 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	0.016 ppb	109.639 %	107.067 %	0.122 ppb	0.007 ppb
Concentration per Run 1	0.048 ppb	105.522 %	103.810 %	0.071 ppb	0.007 ppb
Concentration per Run 2	0.000 ppb	110.833 %	107.443 %	0.132 ppb	0.009 ppb
Concentration per Run 3	0.000 ppb	112.562 %	109.947 %	0.163 ppb	0.005 ppb
Recovery Percentage 1	3.197 %			12.194 %	0.681 %
Concentration RSD	173.2 %	3.3 %	2.9 %	38.1 %	31.5 %

Alpha ICPMSQ Data with SRD

6/26/2024 10:46:24 AM

Analysis index:	13	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	ICSA	Rack	4		
Analysis started at:	6/26/2024 4:26:42 AM	Vial	53		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	69.069 %	81.673 %	0.025 ppb	230,190.774 ppb	94,965.597 ppb	91,756.085 ppb	89,900.204 ppb	**302,511.387 ppb**	85.604 %
Concentration per Run 1	70.317 %	83.764 %	0.024 ppb	229,463.550 ppb	94,767.526 ppb	89,816.848 ppb	91,318.037 ppb	299,130.169 ppb	85.802 %
Concentration per Run 2	69.092 %	83.210 %	0.023 ppb	224,711.056 ppb	94,199.851 ppb	90,309.430 ppb	93,021.083 ppb	313,394.917 ppb	85.130 %
Concentration per Run 3	67.797 %	78.044 %	0.028 ppb	236,397.716 ppb	95,929.415 ppb	95,141.976 ppb	85,361.493 ppb	295,009.075 ppb	85.880 %
Recovery Percentage 1			2.507 %	92.076 %	94.966 %	91.756 %	89.900 %	100.837 %	
Concentration RSD	1.8 %	3.9 %	11.5 %	2.6 %	0.9 %	3.2 %	4.5 %	3.2 %	0.5 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.029 ppb	1.755 ppb	6.118 ppb	213,788.236 ppb	2.039 ppb	2.813 ppb	0.904 ppb	2.543 ppb	96.817 %
Concentration per Run 1	0.098 ppb	1.904 ppb	4.981 ppb	219,605.931 ppb	2.125 ppb	2.637 ppb	0.892 ppb	2.725 ppb	94.146 %
Concentration per Run 2	0.005 ppb	1.742 ppb	6.519 ppb	213,749.475 ppb	2.047 ppb	3.085 ppb	0.950 ppb	2.614 ppb	94.478 %
Concentration per Run 3	-0.016 ppb	1.617 ppb	6.853 ppb	208,009.301 ppb	1.944 ppb	2.717 ppb	0.870 ppb	2.292 ppb	101.828 %
Recovery Percentage 1	0.582 %	53.170 %	107.333 %	85.515 %	71.043 %	46.114 %	32.059 %	22.311 %	
Concentration RSD	209.8 %	8.2 %	16.3 %	2.7 %	4.5 %	8.5 %	4.6 %	8.8 %	4.5 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	-0.150 ppb	3.687 ppb	2.427 ppb	**2,165.554 ppb**	94.866 %	0.026 ppb	0.317 ppb	103.099 %	0.284 ppb
Concentration per Run 1	-0.009 ppb	3.492 ppb	2.361 ppb	2,119.799 ppb	93.262 %	0.013 ppb	0.377 ppb	101.899 %	0.209 ppb
Concentration per Run 2	0.136 ppb	3.477 ppb	2.641 ppb	2,188.271 ppb	95.644 %	0.035 ppb	0.282 ppb	105.132 %	0.291 ppb
Concentration per Run 3	-0.578 ppb	4.093 ppb	2.279 ppb	2,188.591 ppb	95.691 %	0.030 ppb	0.293 ppb	102.265 %	0.354 ppb
Recovery Percentage 1	-9.225 %	28.584 %	89.885 %	108.278 %		3.214 %	79.332 %		3.553 %
Concentration RSD	250.8 %	9.5 %	7.8 %	1.8 %	1.5 %	45.1 %	16.5 %	1.7 %	25.6 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	1.275 ppb	114.264 %	110.617 %	0.088 ppb	1.610 ppb
Concentration per Run 1	1.243 ppb	110.532 %	105.736 %	0.063 ppb	1.680 ppb
Concentration per Run 2	1.433 ppb	113.370 %	111.461 %	0.097 ppb	1.566 ppb
Concentration per Run 3	1.150 ppb	118.889 %	114.654 %	0.102 ppb	1.584 ppb
Recovery Percentage 1	67.841 %			4.379 %	51.943 %
Concentration RSD	11.3 %	3.7 %	4.1 %	24.2 %	3.8 %

Alpha ICPMSQ Data with SRD

6/26/2024 10:46:24 AM

Analysis index:	14	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	LDR Check	Rack	4		
Analysis started at:	6/26/2024 4:31:24 AM	Vial	1		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	79.485 %	82.411 %	0.008 ppb	39.885 ppb	4.135 ppb	4.313 ppb	20.655 ppb	11.683 ppb	89.380 %
Concentration per Run 1	81.060 %	84.317 %	0.010 ppb	45.965 ppb	4.109 ppb	5.103 ppb	24.714 ppb	27.391 ppb	88.259 %
Concentration per Run 2	79.705 %	81.181 %	0.000 ppb	34.997 ppb	5.149 ppb	4.397 ppb	17.606 ppb	2.140 ppb	90.828 %
Concentration per Run 3	77.689 %	81.734 %	0.013 ppb	38.692 ppb	3.146 ppb	3.438 ppb	19.644 ppb	5.517 ppb	89.053 %
Concentration RSD	2.1 %	2.0 %	85.1 %	14.0 %	24.2 %	19.4 %	17.7 %	117.3 %	1.5 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	-0.031 ppb	0.188 ppb	9,661.167 ppb	81.785 ppb	0.021 ppb	9,328.592 ppb	9,461.051 ppb	9,920.590 ppb	93.341 %
Concentration per Run 1	-0.010 ppb	0.169 ppb	9,674.771 ppb	92.478 ppb	0.021 ppb	8,858.007 ppb	9,599.618 ppb	10,263.306 ppb	89.230 %
Concentration per Run 2	-0.012 ppb	0.203 ppb	9,593.709 ppb	81.664 ppb	0.011 ppb	9,500.128 ppb	9,465.933 ppb	10,154.667 ppb	94.134 %
Concentration per Run 3	-0.070 ppb	0.192 ppb	9,715.021 ppb	71.214 ppb	0.031 ppb	9,627.641 ppb	9,317.601 ppb	9,343.798 ppb	96.660 %
Concentration RSD	109.9 %	9.2 %	0.6 %	13.0 %	47.8 %	4.4 %	1.5 %	5.1 %	4.0 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	942.134 ppb	1.887 ppb	0.214 ppb	9.005 ppb	99.523 %	0.171 ppb	0.099 ppb	100.914 %	0.812 ppb
Concentration per Run 1	966.309 ppb	1.823 ppb	0.187 ppb	10.556 ppb	95.909 %	0.190 ppb	0.105 ppb	100.146 %	0.760 ppb
Concentration per Run 2	927.751 ppb	2.467 ppb	0.250 ppb	9.592 ppb	99.687 %	0.181 ppb	0.064 ppb	98.391 %	0.883 ppb
Concentration per Run 3	932.342 ppb	1.370 ppb	0.205 ppb	6.868 ppb	102.973 %	0.140 ppb	0.127 ppb	104.204 %	0.794 ppb
Concentration RSD	2.2 %	29.2 %	15.1 %	21.2 %	3.6 %	15.6 %	32.5 %	3.0 %	7.8 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	10,099.054 ppb	107.096 %	104.185 %	0.068 ppb	9,838.836 ppb
Concentration per Run 1	10,051.729 ppb	101.935 %	100.769 %	0.046 ppb	10,077.001 ppb
Concentration per Run 2	10,226.513 ppb	107.804 %	105.084 %	0.069 ppb	9,603.828 ppb
Concentration per Run 3	10,018.920 ppb	111.550 %	106.701 %	0.089 ppb	9,835.678 ppb
Concentration RSD	1.1 %	4.5 %	2.9 %	31.5 %	2.4 %

Alpha ICPMSQ Data with SRD

6/26/2024 10:46:24 AM

Analysis index:	15	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	Rinse	Rack	0		
Analysis started at:	6/26/2024 4:36:05 AM	Vial	1		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	66.018 %	75.584 %	0.016 ppb	61.036 ppb	3.970 ppb	1.519 ppb	37.321 ppb	16.964 ppb	72.408 %
Concentration per Run 1	66.905 %	72.878 %	0.015 ppb	59.104 ppb	4.452 ppb	0.098 ppb	53.096 ppb	29.724 ppb	71.616 %
Concentration per Run 2	66.359 %	74.723 %	0.012 ppb	63.876 ppb	4.365 ppb	2.511 ppb	24.538 ppb	10.858 ppb	73.067 %
Concentration per Run 3	64.789 %	79.151 %	0.022 ppb	60.129 ppb	3.093 ppb	1.949 ppb	34.331 ppb	10.309 ppb	72.543 %
Concentration RSD	1.7 %	4.3 %	32.2 %	4.1 %	19.2 %	83.1 %	38.9 %	65.2 %	1.0 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	-0.084 ppb	0.204 ppb	0.642 ppb	23.935 ppb	0.030 ppb	1.058 ppb	2.093 ppb	4.304 ppb	76.136 %
Concentration per Run 1	-0.106 ppb	0.273 ppb	0.810 ppb	30.975 ppb	0.044 ppb	1.102 ppb	2.370 ppb	4.834 ppb	77.391 %
Concentration per Run 2	-0.084 ppb	0.210 ppb	0.622 ppb	20.602 ppb	0.026 ppb	1.110 ppb	2.134 ppb	3.916 ppb	76.316 %
Concentration per Run 3	-0.062 ppb	0.128 ppb	0.493 ppb	20.229 ppb	0.019 ppb	0.961 ppb	1.776 ppb	4.163 ppb	74.703 %
Concentration RSD	26.3 %	35.8 %	24.8 %	25.5 %	43.3 %	8.0 %	14.3 %	11.0 %	1.8 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	2.898 ppb	0.095 ppb	0.049 ppb	1.871 ppb	83.182 %	0.008 ppb	0.007 ppb	85.005 %	0.082 ppb
Concentration per Run 1	3.036 ppb	0.124 ppb	0.034 ppb	1.831 ppb	84.649 %	0.005 ppb	0.014 ppb	84.189 %	0.082 ppb
Concentration per Run 2	2.790 ppb	-0.019 ppb	0.066 ppb	2.123 ppb	82.997 %	0.009 ppb	0.000 ppb	84.156 %	0.036 ppb
Concentration per Run 3	2.869 ppb	0.179 ppb	0.049 ppb	1.659 ppb	81.900 %	0.011 ppb	0.007 ppb	86.670 %	0.128 ppb
Concentration RSD	4.3 %	108.1 %	32.1 %	12.6 %	1.7 %	37.7 %	100.3 %	1.7 %	55.9 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	0.357 ppb	88.642 %	87.443 %	0.041 ppb	1.666 ppb
Concentration per Run 1	0.282 ppb	88.973 %	84.875 %	0.018 ppb	2.118 ppb
Concentration per Run 2	0.458 ppb	86.723 %	88.370 %	0.050 ppb	1.549 ppb
Concentration per Run 3	0.332 ppb	90.231 %	89.084 %	0.054 ppb	1.331 ppb
Concentration RSD	25.3 %	2.0 %	2.6 %	48.7 %	24.4 %

Alpha ICPMSQ Data with SRD

6/26/2024 10:46:24 AM

Analysis index:	16	User name	ALPHALAB\Metals-Instrument	Comment	CCV/MCCV
Analysis label:	CCV	Rack	0		
Analysis started at:	6/26/2024 4:40:42 AM	Vial	9		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	78.919 %	94.711 %	60.871 ppb	5,794.537 ppb	5,845.606 ppb	57.553 ppb	5,889.511 ppb	6,370.876 ppb	93.505 %
Concentration per Run 1	80.470 %	87.638 %	60.707 ppb	6,118.585 ppb	6,158.732 ppb	62.773 ppb	6,122.289 ppb	6,627.434 ppb	93.407 %
Concentration per Run 2	79.179 %	94.834 %	60.677 ppb	5,708.068 ppb	5,852.803 ppb	53.315 ppb	5,839.315 ppb	6,218.679 ppb	93.676 %
Concentration per Run 3	77.106 %	101.661 %	61.228 ppb	5,556.958 ppb	5,525.284 ppb	56.572 ppb	5,706.929 ppb	6,266.515 ppb	93.431 %
Recovery Percentage 1			101.451 %	96.576 %	97.427 %	95.922 %	98.159 %	106.181 %	
Concentration RSD	2.2 %	7.4 %	0.5 %	5.0 %	5.4 %	8.3 %	3.6 %	3.5 %	0.2 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	63.276 ppb	63.112 ppb	61.077 ppb	5,963.499 ppb	60.534 ppb	57.264 ppb	62.412 ppb	61.410 ppb	98.559 %
Concentration per Run 1	66.333 ppb	64.808 ppb	62.954 ppb	6,186.529 ppb	64.712 ppb	60.740 ppb	66.008 ppb	62.760 ppb	93.228 %
Concentration per Run 2	63.572 ppb	62.834 ppb	61.165 ppb	6,077.343 ppb	60.672 ppb	57.186 ppb	63.417 ppb	62.479 ppb	94.409 %
Concentration per Run 3	59.922 ppb	61.694 ppb	59.112 ppb	5,626.626 ppb	56.218 ppb	53.868 ppb	57.811 ppb	58.991 ppb	108.039 %
Recovery Percentage 1	105.460 %	105.186 %	101.795 %	99.392 %	100.890 %	95.441 %	104.020 %	102.350 %	
Concentration RSD	5.1 %	2.5 %	3.1 %	5.0 %	7.0 %	6.0 %	6.7 %	3.4 %	8.4 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	60.340 ppb	62.963 ppb	60.492 ppb	60.633 ppb	105.400 %	60.030 ppb	60.037 ppb	109.939 %	59.294 ppb
Concentration per Run 1	61.710 ppb	64.244 ppb	59.732 ppb	59.639 ppb	102.097 %	61.038 ppb	60.963 ppb	104.215 %	60.851 ppb
Concentration per Run 2	61.028 ppb	60.148 ppb	59.098 ppb	60.508 ppb	105.852 %	60.079 ppb	59.603 ppb	107.891 %	58.281 ppb
Concentration per Run 3	58.281 ppb	64.498 ppb	62.647 ppb	61.752 ppb	108.251 %	58.975 ppb	59.544 ppb	117.711 %	58.751 ppb
Recovery Percentage 1	100.567 %	104.939 %	100.821 %	101.055 %		100.051 %	100.061 %		98.824 %
Concentration RSD	3.0 %	3.9 %	3.1 %	1.8 %	2.9 %	1.7 %	1.3 %	6.3 %	2.3 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	58.488 ppb	116.746 %	112.612 %	60.639 ppb	62.392 ppb
Concentration per Run 1	59.083 ppb	111.404 %	105.352 %	63.291 ppb	64.390 ppb
Concentration per Run 2	56.839 ppb	117.444 %	111.160 %	59.593 ppb	62.281 ppb
Concentration per Run 3	59.542 ppb	121.391 %	121.325 %	59.033 ppb	60.507 ppb
Recovery Percentage 1	97.480 %			101.065 %	103.987 %
Concentration RSD	2.5 %	4.3 %	7.2 %	3.8 %	3.1 %

Alpha ICPMSQ Data with SRD

6/26/2024 10:46:24 AM

Analysis index:	17	User name	ALPHALAB\Metals-Instrument	Comment	CCB
Analysis label:	CCB	Rack	0		
Analysis started at:	6/26/2024 4:45:24 AM	Vial	10		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	77.028 %	88.868 %	0.009 ppb	-1.582 ppb	-0.273 ppb	0.335 ppb	-5.206 ppb	-9.026 ppb	83.934 %
Concentration per Run 1	78.037 %	92.251 %	0.007 ppb	-3.969 ppb	-1.203 ppb	0.535 ppb	-3.559 ppb	6.296 ppb	85.107 %
Concentration per Run 2	77.961 %	86.531 %	0.015 ppb	-3.648 ppb	0.651 ppb	-0.012 ppb	5.225 ppb	-16.842 ppb	83.802 %
Concentration per Run 3	75.085 %	87.823 %	0.005 ppb	2.873 ppb	-0.266 ppb	0.482 ppb	-17.286 ppb	-16.531 ppb	82.892 %
Recovery Percentage 1			1.830 %	-1.582 %	-0.390 %	3.352 %	-5.206 %	-9.026 %	
Concentration RSD	2.2 %	3.4 %	58.6 %	244.1 %	339.9 %	90.0 %	217.9 %	147.0 %	1.3 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	-0.094 ppb	0.043 ppb	0.034 ppb	15.779 ppb	0.003 ppb	0.141 ppb	0.277 ppb	0.276 ppb	93.294 %
Concentration per Run 1	-0.088 ppb	-0.044 ppb	0.004 ppb	18.757 ppb	0.008 ppb	0.167 ppb	0.272 ppb	0.306 ppb	90.470 %
Concentration per Run 2	-0.088 ppb	0.136 ppb	0.095 ppb	17.322 ppb	-0.001 ppb	0.170 ppb	0.328 ppb	0.280 ppb	96.932 %
Concentration per Run 3	-0.106 ppb	0.036 ppb	0.003 ppb	11.257 ppb	0.002 ppb	0.085 ppb	0.230 ppb	0.243 ppb	92.479 %
Recovery Percentage 1	-1.885 %	4.280 %	3.380 %	31.557 %	0.572 %	7.027 %	27.681 %	5.529 %	
Concentration RSD	11.2 %	210.7 %	156.5 %	25.2 %	167.0 %	34.5 %	17.9 %	11.4 %	3.5 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.155 ppb	0.250 ppb	0.017 ppb	1.170 ppb	101.759 %	0.005 ppb	0.000 ppb	101.673 %	0.110 ppb
Concentration per Run 1	0.444 ppb	0.233 ppb	0.020 ppb	1.282 ppb	99.795 %	0.004 ppb	0.000 ppb	100.973 %	0.097 ppb
Concentration per Run 2	-0.060 ppb	0.386 ppb	0.003 ppb	1.214 ppb	102.438 %	0.003 ppb	0.000 ppb	100.662 %	0.109 ppb
Concentration per Run 3	0.081 ppb	0.130 ppb	0.027 ppb	1.014 ppb	103.044 %	0.007 ppb	0.000 ppb	103.384 %	0.123 ppb
Recovery Percentage 1	30.988 %	5.000 %	0.166 %	58.504 %		1.175 %	0.000 %		2.743 %
Concentration RSD	168.1 %	51.6 %	75.8 %	11.9 %	1.7 %	37.3 %	N/A	1.5 %	11.9 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	0.108 ppb	110.372 %	106.101 %	0.433 ppb	0.378 ppb
Concentration per Run 1	0.093 ppb	108.657 %	104.367 %	0.288 ppb	0.414 ppb
Concentration per Run 2	0.092 ppb	112.499 %	108.406 %	0.528 ppb	0.361 ppb
Concentration per Run 3	0.138 ppb	109.958 %	105.531 %	0.483 ppb	0.358 ppb
Recovery Percentage 1	21.512 %			43.286 %	37.771 %
Concentration RSD	24.2 %	1.8 %	2.0 %	29.4 %	8.4 %

Alpha ICPMSQ Data with SRD

6/26/2024 10:46:24 AM

Analysis index:	18	User name	ALPHALAB\Metals-Instrument	Comment	FB
Analysis label:	L2434640-30 6020TL	Rack	1		
Analysis started at:	6/26/2024 4:54:23 AM	Vial	1		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	85.708 %	91.144 %	0.007 ppb	-15.926 ppb	2.032 ppb	2.500 ppb	-9.374 ppb	15.651 ppb	91.020 %
Concentration per Run 1	87.314 %	92.251 %	0.004 ppb	-19.257 ppb	2.320 ppb	1.765 ppb	-7.114 ppb	11.254 ppb	91.192 %
Concentration per Run 2	85.796 %	89.483 %	0.010 ppb	-14.424 ppb	1.937 ppb	3.341 ppb	2.384 ppb	18.541 ppb	91.218 %
Concentration per Run 3	84.014 %	91.697 %	0.007 ppb	-14.097 ppb	1.838 ppb	2.395 ppb	-23.392 ppb	17.159 ppb	90.648 %
Concentration RSD	1.9 %	1.6 %	43.3 %	18.1 %	12.5 %	31.7 %	139.1 %	24.7 %	0.4 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	-0.077 ppb	0.059 ppb	0.091 ppb	8.113 ppb	0.010 ppb	0.116 ppb	0.279 ppb	0.722 ppb	98.209 %
Concentration per Run 1	-0.071 ppb	0.118 ppb	-0.037 ppb	10.416 ppb	0.010 ppb	0.141 ppb	0.323 ppb	0.730 ppb	95.625 %
Concentration per Run 2	-0.053 ppb	0.026 ppb	0.114 ppb	9.658 ppb	0.010 ppb	0.062 ppb	0.317 ppb	0.756 ppb	97.647 %
Concentration per Run 3	-0.106 ppb	0.033 ppb	0.196 ppb	4.265 ppb	0.009 ppb	0.144 ppb	0.198 ppb	0.678 ppb	101.354 %
Concentration RSD	35.4 %	87.0 %	129.6 %	41.3 %	4.7 %	40.3 %	25.1 %	5.5 %	3.0 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	-0.394 ppb	-0.055 ppb	0.165 ppb	0.359 ppb	104.529 %	0.000 ppb	0.000 ppb	105.258 %	0.039 ppb
Concentration per Run 1	-0.398 ppb	0.087 ppb	0.172 ppb	0.299 ppb	103.409 %	-0.001 ppb	0.000 ppb	101.779 %	0.045 ppb
Concentration per Run 2	-0.400 ppb	-0.051 ppb	0.195 ppb	0.386 ppb	104.690 %	0.002 ppb	0.000 ppb	105.979 %	0.043 ppb
Concentration per Run 3	-0.384 ppb	-0.200 ppb	0.128 ppb	0.390 ppb	105.488 %	-0.002 ppb	0.000 ppb	108.016 %	0.030 ppb
Concentration RSD	2.2 %	261.4 %	20.6 %	14.3 %	1.0 %	607.9 %	N/A	3.0 %	21.4 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	0.254 ppb	113.311 %	108.244 %	0.092 ppb	0.205 ppb
Concentration per Run 1	0.274 ppb	112.781 %	107.491 %	0.057 ppb	0.214 ppb
Concentration per Run 2	0.222 ppb	114.051 %	108.392 %	0.112 ppb	0.226 ppb
Concentration per Run 3	0.265 ppb	113.100 %	108.848 %	0.106 ppb	0.176 ppb
Concentration RSD	10.9 %	0.6 %	0.6 %	32.6 %	12.9 %

Alpha ICPMSQ Data with SRD

6/26/2024 10:46:24 AM

Analysis index:	19	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	L2434648-01 6020TL	Rack	1		
Analysis started at:	6/26/2024 4:59:01 AM	Vial	2		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	87.296 %	96.925 %	0.015 ppb	6,010.210 ppb	8,182.008 ppb	30.417 ppb	5,847.790 ppb	154,474.258 ppb	90.724 %
Concentration per Run 1	88.757 %	97.970 %	0.017 ppb	6,346.818 ppb	8,706.117 ppb	34.947 ppb	6,554.553 ppb	172,289.783 ppb	90.902 %
Concentration per Run 2	88.104 %	94.465 %	0.012 ppb	6,199.722 ppb	8,341.910 ppb	28.242 ppb	5,721.744 ppb	151,038.941 ppb	91.137 %
Concentration per Run 3	85.025 %	98.339 %	0.016 ppb	5,484.090 ppb	7,497.997 ppb	28.062 ppb	5,267.074 ppb	140,094.048 ppb	90.133 %
Concentration RSD	2.3 %	2.2 %	15.7 %	7.7 %	7.6 %	12.9 %	11.2 %	10.6 %	0.6 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.213 ppb	0.291 ppb	823.005 ppb	8,365.817 ppb	0.197 ppb	0.170 ppb	0.414 ppb	56.715 ppb	97.383 %
Concentration per Run 1	0.082 ppb	0.203 ppb	860.832 ppb	8,659.136 ppb	0.165 ppb	0.165 ppb	0.507 ppb	60.059 ppb	98.985 %
Concentration per Run 2	0.313 ppb	0.297 ppb	833.614 ppb	8,387.694 ppb	0.216 ppb	0.096 ppb	0.365 ppb	55.660 ppb	97.660 %
Concentration per Run 3	0.244 ppb	0.374 ppb	774.569 ppb	8,050.622 ppb	0.210 ppb	0.250 ppb	0.371 ppb	54.427 ppb	95.504 %
Concentration RSD	55.8 %	29.3 %	5.4 %	3.6 %	14.2 %	45.3 %	19.4 %	5.2 %	1.8 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	-0.239 ppb	0.284 ppb	725.891 ppb	0.441 ppb	104.538 %	-0.002 ppb	0.005 ppb	109.163 %	0.046 ppb
Concentration per Run 1	0.104 ppb	0.226 ppb	789.566 ppb	0.428 ppb	106.952 %	-0.003 ppb	0.010 ppb	112.277 %	0.035 ppb
Concentration per Run 2	-0.355 ppb	0.240 ppb	704.822 ppb	0.489 ppb	104.452 %	-0.002 ppb	0.000 ppb	110.880 %	0.055 ppb
Concentration per Run 3	-0.467 ppb	0.385 ppb	683.285 ppb	0.407 ppb	102.211 %	-0.002 ppb	0.006 ppb	104.332 %	0.047 ppb
Concentration RSD	126.6 %	31.1 %	7.7 %	9.7 %	2.3 %	32.0 %	97.9 %	3.9 %	22.2 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	773.800 ppb	117.993 %	117.274 %	0.075 ppb	2.392 ppb
Concentration per Run 1	828.866 ppb	119.058 %	121.737 %	0.031 ppb	2.315 ppb
Concentration per Run 2	761.775 ppb	117.196 %	115.719 %	0.090 ppb	2.455 ppb
Concentration per Run 3	730.760 ppb	117.726 %	114.366 %	0.104 ppb	2.407 ppb
Concentration RSD	6.5 %	0.8 %	3.3 %	51.6 %	3.0 %

Alpha ICPMSQ Data with SRD

6/26/2024 10:46:24 AM

Analysis index:	20	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	L2434648-02 6020TL	Rack	1		
Analysis started at:	6/26/2024 5:03:38 AM	Vial	3		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	80.813 %	87.700 %	0.025 ppb	94,692.473 ppb	52,285.121 ppb	105.398 ppb	12,941.179 ppb	79,809.302 ppb	90.311 %
Concentration per Run 1	82.062 %	83.395 %	0.030 ppb	104,212.183 ppb	56,487.009 ppb	122.662 ppb	14,376.910 ppb	87,154.007 ppb	90.367 %
Concentration per Run 2	80.917 %	89.114 %	0.018 ppb	91,728.616 ppb	51,425.928 ppb	101.223 ppb	12,652.453 ppb	76,364.332 ppb	90.430 %
Concentration per Run 3	79.461 %	90.590 %	0.025 ppb	88,136.619 ppb	48,942.427 ppb	92.309 ppb	11,794.174 ppb	75,909.568 ppb	90.135 %
Concentration RSD	1.6 %	4.3 %	25.2 %	8.9 %	7.4 %	14.8 %	10.2 %	8.0 %	0.2 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.819 ppb	7.543 ppb	1,566.971 ppb	1,723.533 ppb	0.909 ppb	8.927 ppb	1.375 ppb	14.980 ppb	94.972 %
Concentration per Run 1	0.971 ppb	7.753 ppb	1,654.409 ppb	1,776.493 ppb	0.891 ppb	8.997 ppb	1.441 ppb	15.523 ppb	97.102 %
Concentration per Run 2	0.702 ppb	7.329 ppb	1,522.145 ppb	1,696.685 ppb	0.929 ppb	8.793 ppb	1.303 ppb	14.114 ppb	99.583 %
Concentration per Run 3	0.785 ppb	7.547 ppb	1,524.360 ppb	1,697.419 ppb	0.908 ppb	8.991 ppb	1.381 ppb	15.303 ppb	88.230 %
Concentration RSD	16.8 %	2.8 %	4.8 %	2.7 %	2.1 %	1.3 %	5.0 %	5.1 %	6.3 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	-0.190 ppb	0.144 ppb	393.771 ppb	1.765 ppb	99.826 %	0.039 ppb	0.025 ppb	104.909 %	0.272 ppb
Concentration per Run 1	0.091 ppb	-0.050 ppb	426.734 ppb	1.810 ppb	100.417 %	0.035 ppb	0.042 ppb	113.183 %	0.272 ppb
Concentration per Run 2	-0.368 ppb	0.218 ppb	378.033 ppb	1.748 ppb	101.793 %	0.034 ppb	0.034 ppb	103.078 %	0.282 ppb
Concentration per Run 3	-0.291 ppb	0.263 ppb	376.545 ppb	1.736 ppb	97.268 %	0.046 ppb	0.000 ppb	98.466 %	0.261 ppb
Concentration RSD	129.6 %	117.7 %	7.3 %	2.2 %	2.3 %	17.8 %	88.3 %	7.2 %	3.7 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	156.169 ppb	117.927 %	116.651 %	0.056 ppb	1.813 ppb
Concentration per Run 1	166.201 ppb	121.035 %	122.285 %	0.030 ppb	1.773 ppb
Concentration per Run 2	149.846 ppb	118.276 %	115.949 %	0.058 ppb	1.832 ppb
Concentration per Run 3	152.461 ppb	114.469 %	111.719 %	0.079 ppb	1.835 ppb
Concentration RSD	5.6 %	2.8 %	4.6 %	43.8 %	1.9 %

Alpha ICPMSQ Data with SRD

6/26/2024 10:46:24 AM

Analysis index:	21	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	L2434648-03 6020TL	Rack	1		
Analysis started at:	6/26/2024 5:08:16 AM	Vial	4		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	79.190 %	86.593 %	0.024 ppb	113,781.476 ppb	21,805.786 ppb	151.011 ppb	17,731.868 ppb	293,327.546 ppb	90.074 %
Concentration per Run 1	80.821 %	90.590 %	0.030 ppb	114,314.936 ppb	21,908.187 ppb	149.282 ppb	18,006.457 ppb	299,133.143 ppb	89.786 %
Concentration per Run 2	78.952 %	87.823 %	0.016 ppb	111,569.264 ppb	21,565.942 ppb	145.808 ppb	17,702.480 ppb	293,306.588 ppb	90.449 %
Concentration per Run 3	77.798 %	81.365 %	0.027 ppb	115,460.229 ppb	21,943.230 ppb	157.942 ppb	17,486.665 ppb	287,542.906 ppb	89.987 %
Concentration RSD	1.9 %	5.5 %	29.7 %	1.8 %	1.0 %	4.1 %	1.5 %	2.0 %	0.4 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.788 ppb	0.568 ppb	3,576.207 ppb	4,545.617 ppb	6.174 ppb	22.295 ppb	2.175 ppb	38.477 ppb	93.342 %
Concentration per Run 1	0.796 ppb	0.669 ppb	3,634.843 ppb	4,583.774 ppb	6.404 ppb	21.747 ppb	2.294 ppb	39.288 ppb	92.266 %
Concentration per Run 2	0.880 ppb	0.581 ppb	3,557.181 ppb	4,526.866 ppb	6.154 ppb	22.340 ppb	2.129 ppb	38.309 ppb	94.757 %
Concentration per Run 3	0.690 ppb	0.452 ppb	3,536.596 ppb	4,526.210 ppb	5.965 ppb	22.797 ppb	2.102 ppb	37.834 ppb	93.002 %
Concentration RSD	12.1 %	19.2 %	1.4 %	0.7 %	3.6 %	2.4 %	4.8 %	1.9 %	1.4 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.539 ppb	0.834 ppb	950.607 ppb	3.099 ppb	97.738 %	0.013 ppb	0.142 ppb	102.615 %	0.134 ppb
Concentration per Run 1	0.629 ppb	0.546 ppb	988.141 ppb	3.018 ppb	97.131 %	0.014 ppb	0.152 ppb	104.236 %	0.146 ppb
Concentration per Run 2	0.568 ppb	1.396 ppb	964.618 ppb	3.158 ppb	99.011 %	0.008 ppb	0.139 ppb	106.089 %	0.122 ppb
Concentration per Run 3	0.421 ppb	0.560 ppb	899.062 ppb	3.122 ppb	97.073 %	0.016 ppb	0.136 ppb	97.519 %	0.134 ppb
Concentration RSD	19.9 %	58.4 %	4.9 %	2.3 %	1.1 %	33.5 %	6.2 %	4.4 %	8.8 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	157.686 ppb	114.463 %	111.859 %	0.062 ppb	4.810 ppb
Concentration per Run 1	163.168 ppb	112.366 %	111.022 %	0.046 ppb	4.857 ppb
Concentration per Run 2	154.409 ppb	117.284 %	113.568 %	0.058 ppb	4.746 ppb
Concentration per Run 3	155.480 ppb	113.739 %	110.987 %	0.083 ppb	4.826 ppb
Concentration RSD	3.0 %	2.2 %	1.3 %	30.2 %	1.2 %

Alpha ICPMSQ Data with SRD

6/26/2024 10:46:24 AM

Analysis index:	22	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	L2434648-04 6020TL	Rack	1		
Analysis started at:	6/26/2024 5:12:55 AM	Vial	5		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	80.197 %	83.272 %	0.005 ppb	219,784.253 ppb	40,348.148 ppb	6.838 ppb	9,718.581 ppb	66,921.060 ppb	91.350 %
Concentration per Run 1	81.179 %	82.657 %	0.005 ppb	222,636.816 ppb	40,775.926 ppb	6.747 ppb	9,973.013 ppb	67,576.507 ppb	92.186 %
Concentration per Run 2	81.454 %	84.502 %	0.005 ppb	220,591.003 ppb	40,943.992 ppb	6.648 ppb	9,696.750 ppb	67,074.958 ppb	91.275 %
Concentration per Run 3	77.959 %	82.657 %	0.006 ppb	216,124.939 ppb	39,324.524 ppb	7.119 ppb	9,485.979 ppb	66,111.715 ppb	90.588 %
Concentration RSD	2.4 %	1.3 %	6.7 %	1.5 %	2.2 %	3.6 %	2.5 %	1.1 %	0.9 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.275 ppb	0.225 ppb	729.860 ppb	4,963.299 ppb	0.182 ppb	1.011 ppb	0.272 ppb	1.075 ppb	91.092 %
Concentration per Run 1	0.404 ppb	0.145 ppb	720.326 ppb	4,909.107 ppb	0.175 ppb	1.009 ppb	0.270 ppb	0.958 ppb	92.627 %
Concentration per Run 2	0.196 ppb	0.315 ppb	733.687 ppb	4,949.638 ppb	0.206 ppb	0.903 ppb	0.264 ppb	1.129 ppb	91.696 %
Concentration per Run 3	0.224 ppb	0.215 ppb	735.565 ppb	5,031.153 ppb	0.165 ppb	1.122 ppb	0.282 ppb	1.139 ppb	88.954 %
Concentration RSD	41.1 %	38.0 %	1.1 %	1.3 %	11.7 %	10.8 %	3.4 %	9.5 %	2.1 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	3.822 ppb	0.110 ppb	325.911 ppb	1.668 ppb	96.912 %	0.001 ppb	0.000 ppb	102.454 %	0.039 ppb
Concentration per Run 1	3.569 ppb	0.087 ppb	324.417 ppb	1.738 ppb	97.097 %	0.001 ppb	0.000 ppb	102.274 %	0.037 ppb
Concentration per Run 2	4.201 ppb	-0.034 ppb	329.178 ppb	1.507 ppb	96.636 %	-0.002 ppb	0.000 ppb	104.333 %	0.023 ppb
Concentration per Run 3	3.697 ppb	0.279 ppb	324.138 ppb	1.758 ppb	97.003 %	0.005 ppb	0.000 ppb	100.756 %	0.058 ppb
Concentration RSD	8.8 %	142.8 %	0.9 %	8.4 %	0.3 %	250.3 %	N/A	1.8 %	45.2 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	100.391 ppb	114.413 %	111.791 %	0.037 ppb	0.174 ppb
Concentration per Run 1	104.089 ppb	112.359 %	114.957 %	0.017 ppb	0.169 ppb
Concentration per Run 2	98.090 ppb	115.644 %	111.987 %	0.045 ppb	0.168 ppb
Concentration per Run 3	98.993 ppb	115.237 %	108.429 %	0.048 ppb	0.186 ppb
Concentration RSD	3.2 %	1.6 %	2.9 %	47.4 %	5.8 %

Alpha ICPMSQ Data with SRD

6/26/2024 10:46:24 AM

Analysis index:	23	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	L2434648-05 6020TL	Rack	1		
Analysis started at:	6/26/2024 5:17:34 AM	Vial	6		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	96.413 %	95.264 %	0.020 ppb	752,707.342 ppb	81,516.059 ppb	9.174 ppb	50,331.996 ppb	86,221.940 ppb	97.743 %
Concentration per Run 1	99.176 %	97.232 %	0.011 ppb	767,073.105 ppb	80,758.796 ppb	9.941 ppb	51,482.192 ppb	88,024.516 ppb	99.318 %
Concentration per Run 2	96.324 %	89.668 %	0.021 ppb	740,493.895 ppb	81,296.732 ppb	9.756 ppb	49,579.762 ppb	85,412.254 ppb	97.763 %
Concentration per Run 3	93.739 %	98.893 %	0.027 ppb	750,555.026 ppb	82,492.648 ppb	7.824 ppb	49,934.034 ppb	85,229.049 ppb	96.149 %
Concentration RSD	2.8 %	5.2 %	40.6 %	1.8 %	1.1 %	12.8 %	2.0 %	1.8 %	1.6 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	3.006 ppb	1.002 ppb	357.049 ppb	19,151.934 ppb	1.868 ppb	1.438 ppb	0.336 ppb	1.311 ppb	89.385 %
Concentration per Run 1	2.765 ppb	1.086 ppb	371.415 ppb	19,796.723 ppb	1.792 ppb	1.399 ppb	0.311 ppb	1.332 ppb	85.341 %
Concentration per Run 2	3.069 ppb	0.934 ppb	346.339 ppb	18,908.744 ppb	1.809 ppb	1.433 ppb	0.325 ppb	1.218 ppb	89.152 %
Concentration per Run 3	3.184 ppb	0.987 ppb	353.393 ppb	18,750.336 ppb	2.003 ppb	1.482 ppb	0.371 ppb	1.383 ppb	93.664 %
Concentration RSD	7.2 %	7.7 %	3.6 %	2.9 %	6.3 %	2.9 %	9.2 %	6.4 %	4.7 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	3.583 ppb	0.522 ppb	887.815 ppb	0.583 ppb	92.901 %	0.000 ppb	0.004 ppb	97.527 %	0.068 ppb
Concentration per Run 1	3.995 ppb	0.260 ppb	917.103 ppb	0.689 ppb	89.875 %	0.000 ppb	0.000 ppb	94.813 %	0.041 ppb
Concentration per Run 2	3.359 ppb	0.611 ppb	850.442 ppb	0.621 ppb	92.337 %	-0.001 ppb	0.006 ppb	92.675 %	0.079 ppb
Concentration per Run 3	3.395 ppb	0.695 ppb	895.901 ppb	0.439 ppb	96.489 %	0.001 ppb	0.006 ppb	105.092 %	0.083 ppb
Concentration RSD	10.0 %	44.1 %	3.8 %	22.2 %	3.6 %	553.3 %	86.9 %	6.8 %	34.1 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	267.619 ppb	112.978 %	108.376 %	0.033 ppb	0.078 ppb
Concentration per Run 1	273.215 ppb	111.341 %	106.580 %	0.017 ppb	0.088 ppb
Concentration per Run 2	263.588 ppb	110.343 %	104.462 %	0.036 ppb	0.083 ppb
Concentration per Run 3	266.054 ppb	117.252 %	114.086 %	0.046 ppb	0.063 ppb
Concentration RSD	1.9 %	3.3 %	4.7 %	44.3 %	16.9 %

Alpha ICPMSQ Data with SRD

6/26/2024 10:46:24 AM

Analysis index:	24	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	xL2435162-01 6020TL	Rack	1		
Analysis started at:	6/26/2024 5:22:13 AM	Vial	7		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	91.282 %	87.331 %	0.031 ppb	34,334.835 ppb	7,054.940 ppb	72.415 ppb	3,079.755 ppb	123,406.092 ppb	95.297 %
Concentration per Run 1	92.665 %	87.454 %	0.029 ppb	35,362.637 ppb	7,002.505 ppb	77.406 ppb	3,120.243 ppb	124,363.020 ppb	95.210 %
Concentration per Run 2	92.420 %	88.561 %	0.031 ppb	33,047.957 ppb	6,802.660 ppb	67.335 ppb	2,878.934 ppb	117,972.409 ppb	96.317 %
Concentration per Run 3	88.760 %	85.978 %	0.032 ppb	34,593.910 ppb	7,359.656 ppb	72.504 ppb	3,240.087 ppb	127,882.848 ppb	94.365 %
Concentration RSD	2.4 %	1.5 %	4.6 %	3.4 %	4.0 %	7.0 %	6.0 %	4.1 %	1.0 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	1.617 ppb	0.737 ppb	968.457 ppb	855.452 ppb	16.449 ppb	12.016 ppb	1.382 ppb	33.503 ppb	103.919 %
Concentration per Run 1	1.449 ppb	0.747 ppb	970.443 ppb	841.839 ppb	16.147 ppb	12.541 ppb	1.324 ppb	34.072 ppb	104.560 %
Concentration per Run 2	1.972 ppb	0.772 ppb	970.346 ppb	865.801 ppb	16.759 ppb	12.035 ppb	1.486 ppb	33.578 ppb	98.330 %
Concentration per Run 3	1.430 ppb	0.691 ppb	964.583 ppb	858.717 ppb	16.439 ppb	11.472 ppb	1.337 ppb	32.860 ppb	108.866 %
Concentration RSD	19.0 %	5.7 %	0.3 %	1.4 %	1.9 %	4.5 %	6.5 %	1.8 %	5.1 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.427 ppb	0.603 ppb	613.501 ppb	1.644 ppb	104.352 %	0.037 ppb	0.274 ppb	107.403 %	2.417 ppb
Concentration per Run 1	0.439 ppb	0.343 ppb	614.208 ppb	1.549 ppb	103.811 %	0.032 ppb	0.307 ppb	111.185 %	2.423 ppb
Concentration per Run 2	0.469 ppb	0.644 ppb	600.718 ppb	1.769 ppb	103.094 %	0.035 ppb	0.335 ppb	100.141 %	2.475 ppb
Concentration per Run 3	0.373 ppb	0.822 ppb	625.576 ppb	1.614 ppb	106.153 %	0.045 ppb	0.179 ppb	110.882 %	2.353 ppb
Concentration RSD	11.6 %	40.2 %	2.0 %	6.9 %	1.5 %	18.9 %	30.5 %	5.9 %	2.5 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	85.510 ppb	118.565 %	117.526 %	0.056 ppb	73.902 ppb
Concentration per Run 1	88.798 ppb	115.713 %	115.809 %	0.048 ppb	74.592 ppb
Concentration per Run 2	80.711 ppb	118.088 %	114.112 %	0.059 ppb	75.655 ppb
Concentration per Run 3	87.019 ppb	121.893 %	122.658 %	0.061 ppb	71.459 ppb
Concentration RSD	5.0 %	2.6 %	3.8 %	12.9 %	3.0 %

Alpha ICPMSQ Data with SRD

6/26/2024 10:46:24 AM

Analysis index:	25	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	xl2433144-01d10 A2-6020T	Rack	1		
Analysis started at:	6/26/2024 5:26:52 AM	Vial	15		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	90.974 %	90.037 %	1.021 ppb	152.564 ppb	1,604.110 ppb	7,702.965 ppb	638.991 ppb	2,181.721 ppb	100.451 %
Concentration per Run 1	92.560 %	87.823 %	0.999 ppb	184.718 ppb	1,710.037 ppb	8,059.655 ppb	650.097 ppb	2,130.068 ppb	100.406 %
Concentration per Run 2	90.746 %	87.638 %	1.036 ppb	151.887 ppb	1,534.838 ppb	7,543.809 ppb	634.361 ppb	2,317.502 ppb	101.459 %
Concentration per Run 3	89.617 %	94.649 %	1.029 ppb	121.086 ppb	1,567.456 ppb	7,505.430 ppb	632.515 ppb	2,097.593 ppb	99.487 %
Concentration RSD	1.6 %	4.4 %	1.9 %	20.9 %	5.8 %	4.0 %	1.5 %	5.4 %	1.0 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	83.522 ppb	86.930 ppb	136.143 ppb	34,770.014 ppb	10.048 ppb	35.334 ppb	71.180 ppb	387.647 ppb	99.747 %
Concentration per Run 1	86.091 ppb	87.510 ppb	140.604 ppb	35,928.595 ppb	10.341 ppb	36.350 ppb	72.411 ppb	395.554 ppb	96.321 %
Concentration per Run 2	85.837 ppb	90.740 ppb	135.272 ppb	34,876.420 ppb	10.282 ppb	36.679 ppb	72.883 ppb	399.200 ppb	94.839 %
Concentration per Run 3	78.638 ppb	82.539 ppb	132.554 ppb	33,505.026 ppb	9.523 ppb	32.974 ppb	68.246 ppb	368.188 ppb	108.082 %
Concentration RSD	5.1 %	4.8 %	3.0 %	3.5 %	4.5 %	5.8 %	3.6 %	4.4 %	7.3 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	16.841 ppb	6.709 ppb	14.415 ppb	3.005 ppb	106.963 %	1.038 ppb	3.240 ppb	112.148 %	5.548 ppb
Concentration per Run 1	17.425 ppb	5.903 ppb	14.853 ppb	2.851 ppb	105.747 %	1.054 ppb	3.245 ppb	111.301 %	5.598 ppb
Concentration per Run 2	17.592 ppb	8.463 ppb	14.108 ppb	3.007 ppb	106.150 %	1.024 ppb	3.319 ppb	106.414 %	5.606 ppb
Concentration per Run 3	15.506 ppb	5.762 ppb	14.284 ppb	3.156 ppb	108.992 %	1.036 ppb	3.155 ppb	118.730 %	5.441 ppb
Concentration RSD	6.9 %	22.7 %	2.7 %	5.1 %	1.7 %	1.4 %	2.5 %	5.5 %	1.7 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	115.412 ppb	125.751 %	121.610 %	0.279 ppb	187.443 ppb
Concentration per Run 1	117.406 ppb	123.262 %	121.819 %	0.268 ppb	185.803 ppb
Concentration per Run 2	113.126 ppb	123.873 %	116.455 %	0.289 ppb	193.664 ppb
Concentration per Run 3	115.702 ppb	130.117 %	126.557 %	0.281 ppb	182.861 ppb
Concentration RSD	1.9 %	3.0 %	4.2 %	3.9 %	3.0 %

Alpha ICPMSQ Data with SRD

6/26/2024 10:46:24 AM

Analysis index:	26	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	L2434648-05d10 6020TL	Rack	1		
Analysis started at:	6/26/2024 5:31:29 AM	Vial	30		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	89.782 %	92.128 %	0.011 ppb	77,955.776 ppb	8,461.643 ppb	0.906 ppb	4,912.083 ppb	9,738.435 ppb	88.965 %
Concentration per Run 1	91.711 %	87.823 %	0.009 ppb	81,152.753 ppb	8,769.666 ppb	0.203 ppb	5,091.277 ppb	9,872.116 ppb	89.179 %
Concentration per Run 2	89.445 %	94.096 %	0.012 ppb	74,872.158 ppb	8,042.550 ppb	1.081 ppb	4,770.066 ppb	9,544.140 ppb	90.012 %
Concentration per Run 3	88.191 %	94.465 %	0.011 ppb	77,842.418 ppb	8,572.715 ppb	1.434 ppb	4,874.907 ppb	9,799.051 ppb	87.704 %
Concentration RSD	2.0 %	4.1 %	13.1 %	4.0 %	4.4 %	70.0 %	3.3 %	1.8 %	1.3 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.352 ppb	0.095 ppb	44.350 ppb	1,922.444 ppb	0.182 ppb	0.307 ppb	0.097 ppb	0.235 ppb	95.917 %
Concentration per Run 1	0.431 ppb	0.106 ppb	43.298 ppb	1,898.482 ppb	0.206 ppb	0.177 ppb	0.063 ppb	0.203 ppb	97.556 %
Concentration per Run 2	0.354 ppb	0.153 ppb	46.140 ppb	1,984.023 ppb	0.182 ppb	0.423 ppb	0.125 ppb	0.269 ppb	90.562 %
Concentration per Run 3	0.273 ppb	0.027 ppb	43.614 ppb	1,884.828 ppb	0.157 ppb	0.322 ppb	0.102 ppb	0.232 ppb	99.633 %
Concentration RSD	22.4 %	66.4 %	3.5 %	2.8 %	13.4 %	40.3 %	32.2 %	13.9 %	5.0 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	-0.302 ppb	0.021 ppb	86.275 ppb	0.178 ppb	104.087 %	-0.002 ppb	0.000 ppb	108.124 %	0.046 ppb
Concentration per Run 1	-0.269 ppb	-0.184 ppb	86.854 ppb	0.186 ppb	102.291 %	-0.002 ppb	0.000 ppb	110.332 %	0.028 ppb
Concentration per Run 2	0.000 ppb	0.135 ppb	83.871 ppb	0.220 ppb	103.656 %	-0.002 ppb	0.000 ppb	105.241 %	0.063 ppb
Concentration per Run 3	-0.639 ppb	0.111 ppb	88.101 ppb	0.129 ppb	106.312 %	-0.001 ppb	0.000 ppb	108.800 %	0.048 ppb
Concentration RSD	106.1 %	860.2 %	2.5 %	25.7 %	2.0 %	40.8 %	N/A	2.4 %	37.6 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	26.364 ppb	120.357 %	120.658 %	0.024 ppb	0.074 ppb
Concentration per Run 1	26.276 ppb	118.657 %	118.296 %	0.010 ppb	0.087 ppb
Concentration per Run 2	25.462 ppb	118.006 %	115.995 %	0.028 ppb	0.072 ppb
Concentration per Run 3	27.353 ppb	124.408 %	127.683 %	0.036 ppb	0.064 ppb
Concentration RSD	3.6 %	2.9 %	5.1 %	54.7 %	15.7 %

Alpha ICPMSQ Data with SRD

6/26/2024 10:46:24 AM

Analysis index:	27	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	L2435162-01 6020TL	Rack	1		
Analysis started at:	6/26/2024 5:36:07 AM	Vial	7		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	90.439 %	89.114 %	0.029 ppb	35,191.089 ppb	6,932.057 ppb	72.970 ppb	3,026.169 ppb	125,467.259 ppb	93.378 %
Concentration per Run 1	92.683 %	87.638 %	0.033 ppb	34,695.322 ppb	6,837.811 ppb	73.969 ppb	2,900.655 ppb	122,525.923 ppb	93.841 %
Concentration per Run 2	89.858 %	83.764 %	0.022 ppb	36,230.251 ppb	7,342.393 ppb	69.860 ppb	3,216.490 ppb	131,367.154 ppb	93.691 %
Concentration per Run 3	88.777 %	95.941 %	0.031 ppb	34,647.693 ppb	6,615.968 ppb	75.082 ppb	2,961.362 ppb	122,508.700 ppb	92.604 %
Concentration RSD	2.2 %	7.0 %	19.4 %	2.6 %	5.4 %	3.8 %	5.5 %	4.1 %	0.7 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	1.728 ppb	0.783 ppb	1,014.320 ppb	856.750 ppb	16.362 ppb	12.352 ppb	1.295 ppb	35.010 ppb	101.370 %
Concentration per Run 1	1.623 ppb	0.910 ppb	1,008.892 ppb	861.835 ppb	16.161 ppb	12.566 ppb	1.132 ppb	34.511 ppb	99.793 %
Concentration per Run 2	1.791 ppb	0.743 ppb	1,032.794 ppb	845.358 ppb	16.844 ppb	12.546 ppb	1.401 ppb	35.768 ppb	101.075 %
Concentration per Run 3	1.770 ppb	0.697 ppb	1,001.275 ppb	863.056 ppb	16.081 ppb	11.945 ppb	1.351 ppb	34.751 ppb	103.241 %
Concentration RSD	5.3 %	14.3 %	1.6 %	1.2 %	2.6 %	2.9 %	11.1 %	1.9 %	1.7 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.311 ppb	0.300 ppb	628.134 ppb	1.603 ppb	105.043 %	0.041 ppb	0.339 ppb	109.195 %	2.433 ppb
Concentration per Run 1	0.352 ppb	0.079 ppb	606.103 ppb	1.677 ppb	99.954 %	0.038 ppb	0.329 ppb	104.449 %	2.534 ppb
Concentration per Run 2	0.240 ppb	0.509 ppb	642.180 ppb	1.404 ppb	106.548 %	0.033 ppb	0.397 ppb	114.135 %	2.270 ppb
Concentration per Run 3	0.340 ppb	0.312 ppb	636.119 ppb	1.728 ppb	108.625 %	0.050 ppb	0.290 ppb	109.000 %	2.496 ppb
Concentration RSD	19.7 %	71.8 %	3.1 %	10.9 %	4.3 %	21.6 %	15.9 %	4.4 %	5.9 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	85.859 ppb	120.487 %	122.582 %	0.052 ppb	73.833 ppb
Concentration per Run 1	85.987 ppb	115.299 %	113.701 %	0.048 ppb	78.021 ppb
Concentration per Run 2	84.452 ppb	122.701 %	126.868 %	0.060 ppb	71.930 ppb
Concentration per Run 3	87.138 ppb	123.460 %	127.175 %	0.048 ppb	71.549 ppb
Concentration RSD	1.6 %	3.7 %	6.3 %	12.5 %	4.9 %

Alpha ICPMSQ Data with SRD

6/26/2024 10:46:24 AM

Analysis index:	28	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	CCV	Rack	0		
Analysis started at:	6/26/2024 5:40:47 AM	Vial	9		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	91.028 %	86.285 %	59.664 ppb	6,024.088 ppb	6,042.415 ppb	57.648 ppb	5,526.287 ppb	6,423.014 ppb	95.178 %
Concentration per Run 1	92.482 %	79.336 %	59.305 ppb	6,396.756 ppb	6,349.273 ppb	59.196 ppb	5,805.902 ppb	6,577.585 ppb	94.615 %
Concentration per Run 2	91.389 %	87.269 %	59.644 ppb	6,151.344 ppb	6,027.120 ppb	55.997 ppb	5,558.023 ppb	6,404.712 ppb	95.823 %
Concentration per Run 3	89.213 %	92.251 %	60.044 ppb	5,524.163 ppb	5,750.852 ppb	57.751 ppb	5,214.937 ppb	6,286.747 ppb	95.094 %
Recovery Percentage 1			99.441 %	100.401 %	100.707 %	96.080 %	92.105 %	107.050 %	
Concentration RSD	1.8 %	7.5 %	0.6 %	7.5 %	5.0 %	2.8 %	5.4 %	2.3 %	0.6 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	66.845 ppb	73.996 ppb	63.449 ppb	5,928.516 ppb	59.254 ppb	58.175 ppb	61.465 ppb	61.555 ppb	98.142 %
Concentration per Run 1	70.111 ppb	78.989 ppb	66.717 ppb	6,339.476 ppb	64.010 ppb	62.603 ppb	66.550 ppb	64.810 ppb	89.314 %
Concentration per Run 2	66.141 ppb	71.337 ppb	64.252 ppb	5,915.328 ppb	59.169 ppb	57.839 ppb	60.324 ppb	61.628 ppb	101.369 %
Concentration per Run 3	64.281 ppb	71.661 ppb	59.379 ppb	5,530.745 ppb	54.585 ppb	54.082 ppb	57.520 ppb	58.226 ppb	103.741 %
Recovery Percentage 1	111.408 %	123.326 %	105.748 %	98.809 %	98.757 %	96.958 %	102.441 %	102.591 %	
Concentration RSD	4.5 %	5.8 %	5.9 %	6.8 %	8.0 %	7.3 %	7.5 %	5.3 %	7.9 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	57.489 ppb	57.390 ppb	59.394 ppb	58.452 ppb	107.978 %	61.554 ppb	61.177 ppb	110.858 %	59.997 ppb
Concentration per Run 1	60.847 ppb	60.145 ppb	58.935 ppb	56.900 ppb	104.862 %	62.017 ppb	62.263 ppb	103.790 %	59.657 ppb
Concentration per Run 2	56.714 ppb	52.087 ppb	60.722 ppb	58.470 ppb	108.340 %	61.768 ppb	60.723 ppb	112.552 %	61.648 ppb
Concentration per Run 3	54.907 ppb	59.939 ppb	58.525 ppb	59.985 ppb	110.734 %	60.878 ppb	60.546 ppb	116.233 %	58.686 ppb
Recovery Percentage 1	95.815 %	95.650 %	98.990 %	97.419 %		102.590 %	101.962 %		99.995 %
Concentration RSD	5.3 %	8.0 %	2.0 %	2.6 %	2.7 %	1.0 %	1.5 %	5.8 %	2.5 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	63.421 ppb	119.336 %	120.974 %	62.675 ppb	63.032 ppb
Concentration per Run 1	64.698 ppb	114.142 %	111.556 %	65.086 ppb	65.912 ppb
Concentration per Run 2	63.798 ppb	120.263 %	124.677 %	60.451 ppb	61.571 ppb
Concentration per Run 3	61.767 ppb	123.604 %	126.688 %	62.488 ppb	61.613 ppb
Recovery Percentage 1	105.702 %			104.458 %	105.053 %
Concentration RSD	2.4 %	4.0 %	6.8 %	3.7 %	4.0 %

Alpha ICPMSQ Data with SRD

6/26/2024 10:46:24 AM

Analysis index:	29	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	CCB	Rack	0		
Analysis started at:	6/26/2024 5:45:29 AM	Vial	10		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	90.288 %	87.023 %	0.010 ppb	5.930 ppb	0.022 ppb	-0.444 ppb	-4.728 ppb	-13.127 ppb	86.066 %
Concentration per Run 1	92.456 %	83.026 %	0.008 ppb	12.952 ppb	-0.677 ppb	-0.278 ppb	0.685 ppb	-19.363 ppb	86.753 %
Concentration per Run 2	89.338 %	89.852 %	0.012 ppb	1.501 ppb	0.143 ppb	0.059 ppb	-4.339 ppb	-6.240 ppb	86.029 %
Concentration per Run 3	89.070 %	88.192 %	0.009 ppb	3.337 ppb	0.601 ppb	-1.112 ppb	-10.531 ppb	-13.779 ppb	85.414 %
Recovery Percentage 1			1.930 %	5.930 %	0.032 %	-4.438 %	-4.728 %	-13.127 %	
Concentration RSD	2.1 %	4.1 %	23.0 %	103.7 %	2,887.6 %	135.9 %	118.8 %	50.2 %	0.8 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	-0.004 ppb	0.038 ppb	-0.065 ppb	9.897 ppb	-0.002 ppb	-0.067 ppb	0.025 ppb	0.045 ppb	94.899 %
Concentration per Run 1	-0.048 ppb	0.063 ppb	-0.062 ppb	12.676 ppb	0.003 ppb	-0.078 ppb	-0.036 ppb	0.058 ppb	88.246 %
Concentration per Run 2	0.001 ppb	-0.023 ppb	-0.165 ppb	9.740 ppb	-0.001 ppb	-0.108 ppb	0.100 ppb	0.071 ppb	96.701 %
Concentration per Run 3	0.034 ppb	0.073 ppb	0.033 ppb	7.275 ppb	-0.007 ppb	-0.017 ppb	0.011 ppb	0.006 ppb	99.750 %
Recovery Percentage 1	-0.084 %	3.772 %	-6.497 %	19.793 %	-0.410 %	-3.368 %	2.511 %	0.893 %	
Concentration RSD	989.6 %	140.0 %	152.2 %	27.3 %	239.7 %	69.0 %	276.0 %	77.3 %	6.3 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	-0.687 ppb	0.084 ppb	0.022 ppb	0.824 ppb	107.928 %	0.004 ppb	0.004 ppb	108.385 %	0.097 ppb
Concentration per Run 1	-0.527 ppb	0.239 ppb	0.019 ppb	0.798 ppb	104.154 %	0.007 ppb	0.006 ppb	100.587 %	0.105 ppb
Concentration per Run 2	-0.698 ppb	-0.209 ppb	0.035 ppb	0.921 ppb	112.000 %	0.000 ppb	0.005 ppb	112.110 %	0.088 ppb
Concentration per Run 3	-0.837 ppb	0.223 ppb	0.011 ppb	0.753 ppb	107.631 %	0.005 ppb	0.000 ppb	112.459 %	0.099 ppb
Recovery Percentage 1	-137.457 %	1.684 %	0.217 %	41.188 %		0.955 %	1.796 %		2.435 %
Concentration RSD	22.6 %	302.2 %	55.3 %	10.5 %	3.6 %	87.6 %	86.9 %	6.2 %	9.1 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	0.042 ppb	118.269 %	120.201 %	0.415 ppb	0.060 ppb
Concentration per Run 1	0.000 ppb	110.306 %	114.106 %	0.307 ppb	0.064 ppb
Concentration per Run 2	0.084 ppb	121.509 %	124.380 %	0.489 ppb	0.054 ppb
Concentration per Run 3	0.042 ppb	122.991 %	122.116 %	0.448 ppb	0.063 ppb
Recovery Percentage 1	8.353 %			41.470 %	6.032 %
Concentration RSD	100.3 %	5.9 %	4.5 %	23.0 %	9.7 %

Alpha ICPMSQ Data with SRD

6/26/2024 10:46:24 AM

Analysis index:	30	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	CCV	Rack	0		
Analysis started at:	6/26/2024 6:04:20 AM	Vial	9		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	86.230 %	88.745 %	58.445 ppb	5,496.776 ppb	5,573.561 ppb	54.530 ppb	5,461.552 ppb	6,172.985 ppb	89.749 %
Concentration per Run 1	87.103 %	87.638 %	57.818 ppb	5,596.277 ppb	5,613.739 ppb	52.650 ppb	5,692.332 ppb	6,296.154 ppb	90.209 %
Concentration per Run 2	86.810 %	83.579 %	58.646 ppb	5,624.250 ppb	5,701.344 ppb	57.472 ppb	5,443.149 ppb	6,247.191 ppb	89.349 %
Concentration per Run 3	84.776 %	95.018 %	58.872 ppb	5,269.801 ppb	5,405.600 ppb	53.468 ppb	5,249.175 ppb	5,975.611 ppb	89.689 %
Recovery Percentage 1			97.408 %	91.613 %	92.893 %	90.883 %	91.026 %	102.883 %	
Concentration RSD	1.5 %	6.5 %	0.9 %	3.6 %	2.7 %	4.7 %	4.1 %	2.8 %	0.5 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	60.406 ppb	77.099 ppb	60.551 ppb	5,535.621 ppb	56.652 ppb	54.172 ppb	60.189 ppb	58.670 ppb	97.102 %
Concentration per Run 1	60.738 ppb	78.969 ppb	64.190 ppb	5,632.778 ppb	57.689 ppb	55.175 ppb	60.933 ppb	59.849 ppb	96.230 %
Concentration per Run 2	61.307 ppb	77.691 ppb	58.786 ppb	5,576.680 ppb	56.573 ppb	54.165 ppb	60.496 ppb	58.198 ppb	95.321 %
Concentration per Run 3	59.173 ppb	74.636 ppb	58.675 ppb	5,397.404 ppb	55.695 ppb	53.177 ppb	59.138 ppb	57.962 ppb	99.756 %
Recovery Percentage 1	100.677 %	128.498 %	100.918 %	92.260 %	94.421 %	90.287 %	100.315 %	97.783 %	
Concentration RSD	1.8 %	2.9 %	5.2 %	2.2 %	1.8 %	1.8 %	1.6 %	1.8 %	2.4 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	54.559 ppb	58.477 ppb	58.762 ppb	58.415 ppb	108.908 %	60.818 ppb	61.746 ppb	109.487 %	61.615 ppb
Concentration per Run 1	54.769 ppb	58.365 ppb	60.822 ppb	58.149 ppb	107.470 %	61.237 ppb	62.152 ppb	112.723 %	61.757 ppb
Concentration per Run 2	54.948 ppb	57.558 ppb	56.066 ppb	58.723 ppb	107.100 %	61.268 ppb	61.083 ppb	106.256 %	60.479 ppb
Concentration per Run 3	53.958 ppb	59.508 ppb	59.399 ppb	58.372 ppb	112.156 %	59.948 ppb	62.004 ppb	109.483 %	62.608 ppb
Recovery Percentage 1	90.931 %	97.462 %	97.937 %	97.358 %		101.363 %	102.910 %		102.691 %
Concentration RSD	1.0 %	1.7 %	4.2 %	0.5 %	2.6 %	1.2 %	0.9 %	3.0 %	1.7 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	61.244 ppb	118.425 %	124.038 %	61.561 ppb	62.346 ppb
Concentration per Run 1	63.648 ppb	120.794 %	125.711 %	60.185 ppb	61.993 ppb
Concentration per Run 2	55.289 ppb	114.425 %	119.345 %	63.489 ppb	62.687 ppb
Concentration per Run 3	64.794 ppb	120.058 %	127.058 %	61.010 ppb	62.358 ppb
Recovery Percentage 1	102.073 %			102.602 %	103.910 %
Concentration RSD	8.5 %	2.9 %	3.3 %	2.8 %	0.6 %

Alpha ICPMSQ Data with SRD

6/26/2024 10:46:24 AM

Analysis index:	31	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	CCB	Rack	0		
Analysis started at:	6/26/2024 6:10:13 AM	Vial	10		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	87.186 %	88.376 %	0.015 ppb	-27.657 ppb	-0.608 ppb	-0.279 ppb	-15.307 ppb	-15.332 ppb	84.800 %
Concentration per Run 1	89.013 %	85.978 %	0.019 ppb	-19.621 ppb	-0.721 ppb	0.250 ppb	-6.860 ppb	-20.522 ppb	85.474 %
Concentration per Run 2	86.678 %	86.531 %	0.015 ppb	-26.064 ppb	-0.733 ppb	-0.378 ppb	-19.876 ppb	-20.775 ppb	84.141 %
Concentration per Run 3	85.869 %	92.620 %	0.012 ppb	-37.285 ppb	-0.370 ppb	-0.710 ppb	-19.185 ppb	-4.698 ppb	84.785 %
Recovery Percentage 1			3.097 %	-27.657 %	-0.868 %	-2.793 %	-15.307 %	-15.332 %	
Concentration RSD	1.9 %	4.2 %	24.4 %	32.3 %	34.0 %	174.5 %	47.8 %	60.1 %	0.8 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	-0.071 ppb	0.049 ppb	-0.128 ppb	8.059 ppb	0.002 ppb	-0.026 ppb	0.002 ppb	0.015 ppb	99.878 %
Concentration per Run 1	-0.070 ppb	0.097 ppb	-0.187 ppb	9.019 ppb	0.008 ppb	-0.018 ppb	-0.031 ppb	0.020 ppb	95.334 %
Concentration per Run 2	-0.053 ppb	0.068 ppb	-0.063 ppb	9.079 ppb	-0.004 ppb	-0.032 ppb	0.005 ppb	0.029 ppb	97.954 %
Concentration per Run 3	-0.090 ppb	-0.017 ppb	-0.133 ppb	6.080 ppb	0.003 ppb	-0.028 ppb	0.033 ppb	-0.006 ppb	106.346 %
Recovery Percentage 1	-1.415 %	4.917 %	-12.750 %	16.118 %	0.430 %	-1.299 %	0.233 %	0.293 %	
Concentration RSD	26.3 %	120.2 %	48.9 %	21.3 %	279.9 %	26.9 %	1,362.6 %	123.1 %	5.8 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	-0.971 ppb	0.477 ppb	0.007 ppb	0.552 ppb	110.333 %	0.003 ppb	0.002 ppb	114.317 %	0.151 ppb
Concentration per Run 1	-0.763 ppb	0.964 ppb	0.018 ppb	0.639 ppb	108.106 %	0.004 ppb	0.000 ppb	114.089 %	0.139 ppb
Concentration per Run 2	-1.068 ppb	0.374 ppb	0.003 ppb	0.569 ppb	111.880 %	0.001 ppb	0.005 ppb	115.054 %	0.164 ppb
Concentration per Run 3	-1.084 ppb	0.094 ppb	0.000 ppb	0.446 ppb	111.012 %	0.003 ppb	0.000 ppb	113.808 %	0.150 ppb
Recovery Percentage 1	-194.285 %	9.546 %	0.067 %	27.576 %		0.678 %	0.840 %		3.777 %
Concentration RSD	18.6 %	93.0 %	139.9 %	17.8 %	1.8 %	49.9 %	173.2 %	0.6 %	8.3 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	0.041 ppb	120.256 %	126.188 %	0.342 ppb	0.050 ppb
Concentration per Run 1	0.000 ppb	117.764 %	122.704 %	0.224 ppb	0.062 ppb
Concentration per Run 2	0.042 ppb	118.151 %	128.276 %	0.385 ppb	0.043 ppb
Concentration per Run 3	0.082 ppb	124.853 %	127.584 %	0.417 ppb	0.044 ppb
Recovery Percentage 1	8.262 %			34.188 %	4.970 %
Concentration RSD	99.2 %	3.3 %	2.4 %	30.3 %	21.6 %

Alpha ICPMSQ Data with SRD

6/26/2024 10:46:24 AM

Analysis index:	32	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	xwg1939020-1 6020SL	Rack	1		
Analysis started at:	6/26/2024 6:17:21 AM	Vial	8		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	91.511 %	92.128 %	0.013 ppb	-2.602 ppb	1.990 ppb	1.073 ppb	-20.852 ppb	2.200 ppb	90.848 %
Concentration per Run 1	92.863 %	91.328 %	0.015 ppb	1.513 ppb	3.158 ppb	1.377 ppb	-19.771 ppb	-0.196 ppb	89.316 %
Concentration per Run 2	91.720 %	92.989 %	0.007 ppb	-7.991 ppb	1.442 ppb	0.848 ppb	-21.082 ppb	-17.290 ppb	91.554 %
Concentration per Run 3	89.950 %	92.066 %	0.018 ppb	-1.327 ppb	1.370 ppb	0.994 ppb	-21.704 ppb	24.085 ppb	91.672 %
Concentration RSD	1.6 %	0.9 %	42.3 %	187.5 %	50.8 %	25.4 %	4.7 %	945.1 %	1.5 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	-0.077 ppb	0.076 ppb	0.219 ppb	12.010 ppb	0.018 ppb	0.017 ppb	0.176 ppb	0.694 ppb	99.503 %
Concentration per Run 1	-0.106 ppb	0.008 ppb	0.270 ppb	13.278 ppb	0.015 ppb	0.035 ppb	0.219 ppb	0.794 ppb	101.445 %
Concentration per Run 2	-0.070 ppb	0.139 ppb	0.178 ppb	15.287 ppb	0.005 ppb	0.041 ppb	0.166 ppb	0.661 ppb	93.078 %
Concentration per Run 3	-0.056 ppb	0.080 ppb	0.209 ppb	7.466 ppb	0.036 ppb	-0.024 ppb	0.144 ppb	0.627 ppb	103.987 %
Concentration RSD	33.7 %	86.7 %	21.4 %	33.8 %	86.4 %	209.8 %	21.9 %	12.7 %	5.7 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	-1.124 ppb	0.079 ppb	0.031 ppb	0.299 ppb	108.140 %	-0.003 ppb	0.000 ppb	112.722 %	0.531 ppb
Concentration per Run 1	-0.978 ppb	0.233 ppb	0.041 ppb	0.351 ppb	108.691 %	-0.002 ppb	0.000 ppb	115.956 %	0.532 ppb
Concentration per Run 2	-1.204 ppb	-0.046 ppb	0.045 ppb	0.319 ppb	104.729 %	-0.003 ppb	0.000 ppb	106.957 %	0.491 ppb
Concentration per Run 3	-1.191 ppb	0.050 ppb	0.009 ppb	0.228 ppb	111.001 %	-0.004 ppb	0.000 ppb	115.252 %	0.572 ppb
Concentration RSD	11.3 %	179.3 %	63.1 %	21.4 %	2.9 %	35.6 %	N/A	4.4 %	7.6 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	0.056 ppb	116.535 %	124.490 %	0.134 ppb	0.287 ppb
Concentration per Run 1	0.000 ppb	115.763 %	124.952 %	0.074 ppb	0.283 ppb
Concentration per Run 2	0.045 ppb	112.223 %	117.953 %	0.153 ppb	0.303 ppb
Concentration per Run 3	0.124 ppb	121.620 %	130.566 %	0.176 ppb	0.276 ppb
Concentration RSD	111.7 %	4.1 %	5.1 %	39.8 %	5.0 %

Alpha ICPMSQ Data with SRD

6/26/2024 10:46:24 AM

Analysis index:	33	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	L2434612-21 6020SL	Rack	1		
Analysis started at:	6/26/2024 6:22:01 AM	Vial	16		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	92.111 %	92.005 %	0.011 ppb	70,867.239 ppb	11,369.419 ppb	4.319 ppb	3,796.267 ppb	78,230.615 ppb	91.647 %
Concentration per Run 1	93.429 %	95.387 %	0.015 ppb	71,646.402 ppb	11,279.915 ppb	4.259 ppb	3,842.918 ppb	81,317.212 ppb	90.529 %
Concentration per Run 2	93.075 %	82.288 %	0.006 ppb	73,291.720 ppb	11,783.800 ppb	5.004 ppb	3,747.459 ppb	76,298.419 ppb	92.214 %
Concentration per Run 3	89.829 %	98.340 %	0.012 ppb	67,663.595 ppb	11,044.544 ppb	3.696 ppb	3,798.425 ppb	77,076.213 ppb	92.197 %
Concentration RSD	2.2 %	9.3 %	43.1 %	4.1 %	3.3 %	15.2 %	1.3 %	3.5 %	1.1 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	-0.005 ppb	0.126 ppb	1,785.053 ppb	211.052 ppb	0.210 ppb	0.254 ppb	0.529 ppb	2.152 ppb	97.113 %
Concentration per Run 1	0.021 ppb	0.148 ppb	1,871.780 ppb	221.327 ppb	0.240 ppb	0.192 ppb	0.552 ppb	2.331 ppb	91.056 %
Concentration per Run 2	0.021 ppb	0.166 ppb	1,730.659 ppb	209.601 ppb	0.185 ppb	0.344 ppb	0.518 ppb	2.102 ppb	97.769 %
Concentration per Run 3	-0.056 ppb	0.063 ppb	1,752.720 ppb	202.228 ppb	0.206 ppb	0.225 ppb	0.517 ppb	2.023 ppb	102.513 %
Concentration RSD	972.6 %	43.6 %	4.3 %	4.6 %	13.3 %	31.5 %	3.8 %	7.4 %	5.9 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.542 ppb	0.220 ppb	294.470 ppb	0.785 ppb	104.865 %	-0.004 ppb	0.002 ppb	112.757 %	0.275 ppb
Concentration per Run 1	0.955 ppb	0.088 ppb	303.921 ppb	0.621 ppb	104.928 %	-0.004 ppb	0.000 ppb	113.742 %	0.302 ppb
Concentration per Run 2	0.409 ppb	0.382 ppb	281.009 ppb	0.817 ppb	102.454 %	-0.005 ppb	0.000 ppb	105.253 %	0.241 ppb
Concentration per Run 3	0.263 ppb	0.189 ppb	298.481 ppb	0.918 ppb	107.214 %	-0.001 ppb	0.005 ppb	119.274 %	0.281 ppb
Concentration RSD	67.2 %	68.2 %	4.1 %	19.2 %	2.3 %	65.0 %	173.2 %	6.3 %	11.3 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	167.373 ppb	117.516 %	125.316 %	0.097 ppb	0.058 ppb
Concentration per Run 1	169.061 ppb	117.319 %	126.098 %	0.054 ppb	0.059 ppb
Concentration per Run 2	162.059 ppb	115.069 %	120.667 %	0.120 ppb	0.059 ppb
Concentration per Run 3	171.000 ppb	120.161 %	129.182 %	0.116 ppb	0.057 ppb
Concentration RSD	2.8 %	2.2 %	3.4 %	38.0 %	1.8 %

Alpha ICPMSQ Data with SRD

6/26/2024 10:46:24 AM

Analysis index:	34	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	wg1939020-2d10 6020SL	Rack	1		
Analysis started at:	6/26/2024 6:26:39 AM	Vial	9		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	89.282 %	91.636 %	5.113 ppb	956.403 ppb	957.980 ppb	183.587 ppb	947.230 ppb	988.498 ppb	89.641 %
Concentration per Run 1	90.854 %	90.406 %	5.064 ppb	991.711 ppb	964.337 ppb	186.314 ppb	969.628 ppb	1,078.498 ppb	88.842 %
Concentration per Run 2	89.138 %	92.620 %	5.115 ppb	913.840 ppb	888.511 ppb	170.339 ppb	883.161 ppb	1,038.566 ppb	89.098 %
Concentration per Run 3	87.853 %	91.882 %	5.161 ppb	963.657 ppb	1,021.092 ppb	194.109 ppb	988.902 ppb	848.429 ppb	90.984 %
Concentration RSD	1.7 %	1.2 %	1.0 %	4.1 %	6.9 %	6.6 %	5.9 %	12.4 %	1.3 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	54.163 ppb	24.365 ppb	49.660 ppb	94.807 ppb	49.106 ppb	45.700 ppb	25.242 ppb	48.872 ppb	99.754 %
Concentration per Run 1	55.054 ppb	23.908 ppb	49.292 ppb	90.461 ppb	48.310 ppb	46.949 ppb	24.945 ppb	48.905 ppb	100.714 %
Concentration per Run 2	53.872 ppb	24.981 ppb	49.205 ppb	94.296 ppb	50.275 ppb	46.303 ppb	25.745 ppb	49.304 ppb	96.077 %
Concentration per Run 3	53.563 ppb	24.207 ppb	50.483 ppb	99.664 ppb	48.733 ppb	43.848 ppb	25.035 ppb	48.408 ppb	102.470 %
Concentration RSD	1.5 %	2.3 %	1.4 %	4.9 %	2.1 %	3.6 %	1.7 %	0.9 %	3.3 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	10.581 ppb	13.174 ppb	95.538 ppb	95.499 ppb	109.306 %	5.159 ppb	5.512 ppb	112.468 %	41.716 ppb
Concentration per Run 1	11.337 ppb	13.520 ppb	95.698 ppb	94.121 ppb	107.511 %	5.123 ppb	5.612 ppb	113.089 %	41.346 ppb
Concentration per Run 2	10.316 ppb	13.472 ppb	93.990 ppb	95.244 ppb	108.079 %	5.223 ppb	5.419 ppb	106.017 %	42.163 ppb
Concentration per Run 3	10.090 ppb	12.529 ppb	96.925 ppb	97.131 ppb	112.330 %	5.131 ppb	5.505 ppb	118.298 %	41.639 ppb
Concentration RSD	6.3 %	4.2 %	1.5 %	1.6 %	2.4 %	1.1 %	1.8 %	5.5 %	1.0 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	201.911 ppb	113.492 %	119.528 %	12.597 ppb	56.319 ppb
Concentration per Run 1	195.180 ppb	112.389 %	120.546 %	12.218 ppb	55.406 ppb
Concentration per Run 2	202.843 ppb	110.080 %	114.276 %	13.061 ppb	58.005 ppb
Concentration per Run 3	207.710 ppb	118.007 %	123.762 %	12.513 ppb	55.546 ppb
Concentration RSD	3.1 %	3.6 %	4.0 %	3.4 %	2.6 %

Alpha ICPMSQ Data with SRD

6/26/2024 10:46:24 AM

Analysis index:	35	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	L2434492-01 6020SL	Rack	1		
Analysis started at:	6/26/2024 6:31:19 AM	Vial	10		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	88.306 %	88.622 %	0.012 ppb	33,310.468 ppb	12,956.085 ppb	2.971 ppb	3,256.111 ppb	38,962.805 ppb	93.946 %
Concentration per Run 1	90.997 %	90.221 %	0.013 ppb	33,351.244 ppb	12,589.438 ppb	1.856 ppb	3,137.339 ppb	38,412.984 ppb	95.876 %
Concentration per Run 2	88.025 %	86.900 %	0.012 ppb	33,037.449 ppb	13,241.808 ppb	3.801 ppb	3,277.142 ppb	38,273.205 ppb	93.419 %
Concentration per Run 3	85.897 %	88.745 %	0.012 ppb	33,542.712 ppb	13,037.010 ppb	3.257 ppb	3,353.852 ppb	40,202.228 ppb	92.543 %
Concentration RSD	2.9 %	1.9 %	4.6 %	0.8 %	2.6 %	33.8 %	3.4 %	2.8 %	1.8 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.231 ppb	0.278 ppb	985.419 ppb	374.505 ppb	0.209 ppb	0.436 ppb	0.314 ppb	2.823 ppb	101.156 %
Concentration per Run 1	0.186 ppb	0.230 ppb	971.314 ppb	357.664 ppb	0.232 ppb	0.434 ppb	0.323 ppb	2.653 ppb	102.163 %
Concentration per Run 2	0.238 ppb	0.402 ppb	973.511 ppb	372.908 ppb	0.223 ppb	0.402 ppb	0.249 ppb	2.893 ppb	103.908 %
Concentration per Run 3	0.269 ppb	0.201 ppb	1,011.433 ppb	392.942 ppb	0.171 ppb	0.471 ppb	0.369 ppb	2.922 ppb	97.396 %
Concentration RSD	18.1 %	39.1 %	2.3 %	4.7 %	15.9 %	7.8 %	19.2 %	5.2 %	3.3 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	-0.219 ppb	-0.120 ppb	157.923 ppb	2.390 ppb	108.105 %	-0.001 ppb	0.005 ppb	112.739 %	1.911 ppb
Concentration per Run 1	-0.209 ppb	-0.224 ppb	152.551 ppb	2.479 ppb	107.954 %	-0.001 ppb	0.005 ppb	113.867 %	1.917 ppb
Concentration per Run 2	-0.511 ppb	-0.199 ppb	156.806 ppb	2.471 ppb	108.359 %	-0.001 ppb	0.005 ppb	111.122 %	1.893 ppb
Concentration per Run 3	0.064 ppb	0.064 ppb	164.411 ppb	2.221 ppb	108.002 %	-0.002 ppb	0.005 ppb	113.227 %	1.922 ppb
Concentration RSD	131.4 %	133.2 %	3.8 %	6.1 %	0.2 %	51.1 %	0.8 %	1.3 %	0.8 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	30.441 ppb	117.384 %	127.970 %	0.098 ppb	0.047 ppb
Concentration per Run 1	29.407 ppb	116.687 %	123.108 %	0.080 ppb	0.052 ppb
Concentration per Run 2	30.714 ppb	118.226 %	130.346 %	0.105 ppb	0.049 ppb
Concentration per Run 3	31.202 ppb	117.240 %	130.457 %	0.110 ppb	0.041 ppb
Concentration RSD	3.0 %	0.7 %	3.3 %	16.4 %	11.8 %

Alpha ICPMSQ Data with SRD

6/26/2024 10:46:24 AM

Analysis index:	36	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	wg1939020-3d10 6020SL	Rack	1		
Analysis started at:	6/26/2024 6:35:59 AM	Vial	11		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	87.213 %	93.850 %	4.903 ppb	4,053.762 ppb	2,077.161 ppb	164.695 ppb	1,146.540 ppb	4,621.344 ppb	87.671 %
Concentration per Run 1	88.700 %	92.804 %	4.787 ppb	4,126.792 ppb	2,052.642 ppb	160.468 ppb	1,134.402 ppb	4,759.796 ppb	87.593 %
Concentration per Run 2	87.319 %	95.387 %	4.930 ppb	3,981.780 ppb	2,142.024 ppb	169.701 ppb	1,208.220 ppb	4,517.596 ppb	87.608 %
Concentration per Run 3	85.619 %	93.358 %	4.992 ppb	4,052.714 ppb	2,036.816 ppb	163.916 ppb	1,096.997 ppb	4,586.639 ppb	87.812 %
Concentration RSD	1.8 %	1.4 %	2.2 %	1.8 %	2.7 %	2.8 %	4.9 %	2.7 %	0.1 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	51.020 ppb	22.317 ppb	141.686 ppb	131.001 ppb	45.380 ppb	42.189 ppb	22.898 ppb	45.197 ppb	102.620 %
Concentration per Run 1	50.474 ppb	21.879 ppb	143.927 ppb	135.947 ppb	46.589 ppb	43.203 ppb	23.278 ppb	46.422 ppb	101.627 %
Concentration per Run 2	51.602 ppb	22.759 ppb	137.337 ppb	131.091 ppb	44.370 ppb	41.776 ppb	22.384 ppb	44.276 ppb	103.429 %
Concentration per Run 3	50.985 ppb	22.314 ppb	143.795 ppb	125.964 ppb	45.182 ppb	41.588 ppb	23.033 ppb	44.894 ppb	102.805 %
Concentration RSD	1.1 %	2.0 %	2.7 %	3.8 %	2.5 %	2.1 %	2.0 %	2.4 %	0.9 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	9.740 ppb	11.458 ppb	105.211 ppb	91.252 ppb	110.182 %	4.974 ppb	5.135 ppb	110.958 %	50.151 ppb
Concentration per Run 1	10.239 ppb	10.548 ppb	105.055 ppb	90.338 ppb	108.301 %	5.140 ppb	5.449 ppb	111.359 %	50.543 ppb
Concentration per Run 2	9.521 ppb	11.677 ppb	105.052 ppb	90.721 ppb	110.373 %	4.956 ppb	4.859 ppb	110.174 %	50.188 ppb
Concentration per Run 3	9.460 ppb	12.149 ppb	105.527 ppb	92.696 ppb	111.872 %	4.825 ppb	5.097 ppb	111.342 %	49.721 ppb
Concentration RSD	4.4 %	7.2 %	0.3 %	1.4 %	1.6 %	3.2 %	5.8 %	0.6 %	0.8 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	200.927 ppb	116.081 %	127.366 %	11.323 ppb	50.631 ppb
Concentration per Run 1	201.461 ppb	112.682 %	122.784 %	11.637 ppb	52.006 ppb
Concentration per Run 2	199.256 ppb	116.888 %	131.140 %	11.078 ppb	49.399 ppb
Concentration per Run 3	202.063 ppb	118.674 %	128.175 %	11.255 ppb	50.488 ppb
Concentration RSD	0.7 %	2.7 %	3.3 %	2.5 %	2.6 %

Alpha ICPMSQ Data with SRD

6/26/2024 10:46:24 AM

Analysis index:	37	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	wg1939020-4 6020SL	Rack	1		
Analysis started at:	6/26/2024 6:40:39 AM	Vial	12		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	87.491 %	89.668 %	0.019 ppb	33,127.172 ppb	12,506.665 ppb	2.929 ppb	3,234.359 ppb	38,289.477 ppb	91.734 %
Concentration per Run 1	89.225 %	86.347 %	0.006 ppb	33,624.518 ppb	12,651.240 ppb	3.173 ppb	3,097.268 ppb	37,945.470 ppb	91.977 %
Concentration per Run 2	87.771 %	90.406 %	0.023 ppb	33,388.929 ppb	12,417.074 ppb	2.719 ppb	3,307.993 ppb	38,560.327 ppb	91.537 %
Concentration per Run 3	85.478 %	92.251 %	0.026 ppb	32,368.067 ppb	12,451.679 ppb	2.894 ppb	3,297.816 ppb	38,362.633 ppb	91.690 %
Concentration RSD	2.2 %	3.4 %	58.2 %	2.0 %	1.0 %	7.8 %	3.7 %	0.8 %	0.2 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.219 ppb	0.272 ppb	979.364 ppb	363.322 ppb	0.206 ppb	0.360 ppb	0.278 ppb	1.192 ppb	101.310 %
Concentration per Run 1	0.282 ppb	0.220 ppb	1,018.811 ppb	375.898 ppb	0.192 ppb	0.376 ppb	0.317 ppb	1.403 ppb	93.949 %
Concentration per Run 2	0.264 ppb	0.362 ppb	950.115 ppb	345.570 ppb	0.199 ppb	0.551 ppb	0.244 ppb	0.937 ppb	105.397 %
Concentration per Run 3	0.112 ppb	0.235 ppb	969.165 ppb	368.498 ppb	0.227 ppb	0.153 ppb	0.273 ppb	1.236 ppb	104.585 %
Concentration RSD	42.5 %	28.6 %	3.6 %	4.4 %	8.9 %	55.4 %	13.2 %	19.8 %	6.3 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	-0.209 ppb	0.349 ppb	155.272 ppb	2.543 ppb	108.191 %	-0.001 ppb	0.002 ppb	113.822 %	0.563 ppb
Concentration per Run 1	-0.129 ppb	0.399 ppb	151.483 ppb	3.006 ppb	105.121 %	-0.001 ppb	0.005 ppb	106.423 %	0.535 ppb
Concentration per Run 2	-0.171 ppb	0.607 ppb	156.458 ppb	2.405 ppb	108.778 %	0.000 ppb	0.000 ppb	114.764 %	0.523 ppb
Concentration per Run 3	-0.327 ppb	0.041 ppb	157.875 ppb	2.216 ppb	110.675 %	-0.003 ppb	0.000 ppb	120.280 %	0.632 ppb
Concentration RSD	50.1 %	81.9 %	2.2 %	16.2 %	2.6 %	139.3 %	173.2 %	6.1 %	10.7 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	28.561 ppb	115.847 %	126.946 %	0.082 ppb	0.051 ppb
Concentration per Run 1	29.238 ppb	110.070 %	120.562 %	0.068 ppb	0.053 ppb
Concentration per Run 2	28.354 ppb	120.213 %	131.602 %	0.090 ppb	0.050 ppb
Concentration per Run 3	28.089 ppb	117.258 %	128.675 %	0.087 ppb	0.049 ppb
Concentration RSD	2.1 %	4.5 %	4.5 %	14.2 %	4.0 %

Alpha ICPMSQ Data with SRD

6/26/2024 10:46:24 AM

Analysis index:	38	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	wg1939020-5d10 6020SL	Rack	1		
Analysis started at:	6/26/2024 6:47:14 AM	Vial	13		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	85.288 %	92.374 %	50.485 ppb	8,036.249 ppb	6,167.912 ppb	45.843 ppb	4,813.540 ppb	9,010.877 ppb	88.258 %
Concentration per Run 1	86.636 %	93.542 %	50.642 ppb	7,807.588 ppb	5,942.981 ppb	42.871 ppb	4,722.169 ppb	8,735.943 ppb	87.841 %
Concentration per Run 2	85.990 %	94.096 %	50.143 ppb	7,886.978 ppb	6,070.763 ppb	44.225 ppb	4,687.811 ppb	8,693.056 ppb	88.241 %
Concentration per Run 3	83.240 %	89.483 %	50.669 ppb	8,414.180 ppb	6,489.992 ppb	50.432 ppb	5,030.639 ppb	9,603.630 ppb	88.693 %
Concentration RSD	2.1 %	2.7 %	0.6 %	4.1 %	4.6 %	8.8 %	3.9 %	5.7 %	0.5 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	56.281 ppb	60.125 ppb	151.320 ppb	4,662.694 ppb	47.248 ppb	45.881 ppb	48.637 ppb	49.461 ppb	102.754 %
Concentration per Run 1	54.673 ppb	59.250 ppb	146.168 ppb	4,542.608 ppb	46.637 ppb	46.194 ppb	48.140 ppb	47.455 ppb	102.513 %
Concentration per Run 2	58.432 ppb	62.351 ppb	154.611 ppb	4,779.180 ppb	48.475 ppb	46.725 ppb	51.388 ppb	52.072 ppb	95.151 %
Concentration per Run 3	55.740 ppb	58.773 ppb	153.180 ppb	4,666.294 ppb	46.634 ppb	44.725 ppb	46.381 ppb	48.855 ppb	110.597 %
Concentration RSD	3.4 %	3.2 %	3.0 %	2.5 %	2.2 %	2.3 %	5.2 %	4.8 %	7.5 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	47.639 ppb	51.843 ppb	66.415 ppb	49.638 ppb	108.780 %	1.487 ppb	51.524 ppb	115.994 %	51.183 ppb
Concentration per Run 1	47.275 ppb	51.512 ppb	63.943 ppb	47.921 ppb	107.243 %	1.548 ppb	50.882 ppb	114.900 %	49.524 ppb
Concentration per Run 2	50.494 ppb	48.126 ppb	67.275 ppb	50.809 ppb	107.413 %	1.468 ppb	52.390 ppb	111.988 %	51.204 ppb
Concentration per Run 3	45.148 ppb	55.891 ppb	68.028 ppb	50.185 ppb	111.685 %	1.446 ppb	51.300 ppb	121.095 %	52.822 ppb
Concentration RSD	5.7 %	7.5 %	3.3 %	3.1 %	2.3 %	3.6 %	1.5 %	4.0 %	3.2 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	55.893 ppb	120.435 %	131.082 %	48.235 ppb	50.505 ppb
Concentration per Run 1	53.837 ppb	115.001 %	123.602 %	50.108 ppb	52.649 ppb
Concentration per Run 2	56.274 ppb	118.738 %	131.239 %	47.287 ppb	49.724 ppb
Concentration per Run 3	57.568 ppb	127.566 %	138.406 %	47.309 ppb	49.141 ppb
Concentration RSD	3.4 %	5.4 %	5.6 %	3.4 %	3.7 %

Alpha ICPMSQ Data with SRD

6/26/2024 10:46:24 AM

Analysis index:	39	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	wg1939020-6d5 6020SL	Rack	1		
Analysis started at:	6/26/2024 6:53:53 AM	Vial	14		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	85.114 %	93.788 %	0.048 ppb	6,346.172 ppb	2,441.793 ppb	1.624 ppb	617.331 ppb	7,509.246 ppb	86.319 %
Concentration per Run 1	87.283 %	95.203 %	0.043 ppb	6,242.548 ppb	2,453.961 ppb	1.126 ppb	658.890 ppb	8,006.833 ppb	86.324 %
Concentration per Run 2	84.244 %	94.649 %	0.049 ppb	6,119.365 ppb	2,285.959 ppb	0.903 ppb	537.525 ppb	6,948.517 ppb	87.063 %
Concentration per Run 3	83.817 %	91.513 %	0.051 ppb	6,676.602 ppb	2,585.457 ppb	2.842 ppb	655.578 ppb	7,572.387 ppb	85.569 %
Concentration RSD	2.2 %	2.1 %	9.2 %	4.6 %	6.1 %	65.3 %	11.2 %	7.1 %	0.9 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.060 ppb	0.093 ppb	202.375 ppb	78.980 ppb	0.039 ppb	0.110 ppb	0.087 ppb	0.618 ppb	95.274 %
Concentration per Run 1	0.089 ppb	0.122 ppb	202.361 ppb	79.586 ppb	0.036 ppb	0.103 ppb	0.087 ppb	0.583 ppb	94.996 %
Concentration per Run 2	0.035 ppb	0.056 ppb	192.812 ppb	74.008 ppb	0.024 ppb	0.034 ppb	0.101 ppb	0.550 ppb	95.846 %
Concentration per Run 3	0.056 ppb	0.102 ppb	211.952 ppb	83.345 ppb	0.057 ppb	0.192 ppb	0.073 ppb	0.723 ppb	94.980 %
Concentration RSD	45.4 %	36.0 %	4.7 %	5.9 %	42.1 %	72.0 %	15.9 %	14.8 %	0.5 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	-0.676 ppb	0.287 ppb	31.670 ppb	0.748 ppb	105.557 %	-0.001 ppb	0.003 ppb	110.229 %	0.203 ppb
Concentration per Run 1	-0.575 ppb	0.079 ppb	32.596 ppb	0.897 ppb	104.004 %	-0.005 ppb	0.005 ppb	112.033 %	0.181 ppb
Concentration per Run 2	-0.781 ppb	0.686 ppb	29.934 ppb	0.767 ppb	104.679 %	-0.003 ppb	0.000 ppb	105.846 %	0.221 ppb
Concentration per Run 3	-0.671 ppb	0.095 ppb	32.480 ppb	0.580 ppb	107.987 %	0.005 ppb	0.005 ppb	112.809 %	0.207 ppb
Concentration RSD	15.2 %	120.7 %	4.8 %	21.3 %	2.0 %	426.7 %	86.6 %	3.5 %	9.8 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	6.030 ppb	113.381 %	124.499 %	0.245 ppb	0.032 ppb
Concentration per Run 1	6.410 ppb	113.834 %	123.957 %	0.180 ppb	0.040 ppb
Concentration per Run 2	5.485 ppb	111.765 %	120.488 %	0.292 ppb	0.031 ppb
Concentration per Run 3	6.196 ppb	114.543 %	129.053 %	0.264 ppb	0.026 ppb
Concentration RSD	8.0 %	1.3 %	3.5 %	23.6 %	22.4 %

Alpha ICPMSQ Data with SRD

6/26/2024 10:46:24 AM

Analysis index:	40	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	L2434612-22 6020SL	Rack	1		
Analysis started at:	6/26/2024 6:58:31 AM	Vial	17		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	80.998 %	77.737 %	0.013 ppb	412,028.350 ppb	10,581.951 ppb	3.827 ppb	5,054.546 ppb	90,920.331 ppb	91.554 %
Concentration per Run 1	83.216 %	76.014 %	0.011 ppb	416,332.138 ppb	10,646.870 ppb	4.525 ppb	4,942.388 ppb	90,170.587 ppb	91.043 %
Concentration per Run 2	80.878 %	73.062 %	0.013 ppb	420,025.347 ppb	10,746.049 ppb	3.534 ppb	5,268.100 ppb	92,889.514 ppb	92.516 %
Concentration per Run 3	78.899 %	84.133 %	0.015 ppb	399,727.566 ppb	10,352.933 ppb	3.421 ppb	4,953.151 ppb	89,700.892 ppb	91.103 %
Concentration RSD	2.7 %	7.4 %	14.3 %	2.6 %	1.9 %	15.9 %	3.7 %	1.9 %	0.9 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	-0.031 ppb	0.100 ppb	1,119.461 ppb	3,614.506 ppb	0.535 ppb	0.805 ppb	3.097 ppb	4.024 ppb	93.030 %
Concentration per Run 1	-0.011 ppb	0.115 ppb	1,088.456 ppb	3,554.646 ppb	0.565 ppb	0.834 ppb	2.673 ppb	4.009 ppb	94.839 %
Concentration per Run 2	-0.065 ppb	0.111 ppb	1,155.927 ppb	3,749.644 ppb	0.556 ppb	0.824 ppb	3.466 ppb	4.333 ppb	85.592 %
Concentration per Run 3	-0.016 ppb	0.076 ppb	1,113.999 ppb	3,539.227 ppb	0.484 ppb	0.755 ppb	3.151 ppb	3.729 ppb	98.659 %
Concentration RSD	96.4 %	21.3 %	3.0 %	3.2 %	8.3 %	5.4 %	12.9 %	7.5 %	7.2 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	1.998 ppb	0.238 ppb	472.786 ppb	1.122 ppb	97.247 %	-0.002 ppb	0.013 ppb	103.372 %	0.452 ppb
Concentration per Run 1	2.214 ppb	0.669 ppb	471.489 ppb	1.364 ppb	95.465 %	0.000 ppb	0.040 ppb	105.032 %	0.445 ppb
Concentration per Run 2	2.052 ppb	-0.186 ppb	476.280 ppb	1.148 ppb	94.878 %	-0.003 ppb	0.000 ppb	98.113 %	0.441 ppb
Concentration per Run 3	1.727 ppb	0.230 ppb	470.588 ppb	0.853 ppb	101.399 %	-0.004 ppb	0.000 ppb	106.970 %	0.471 ppb
Concentration RSD	12.4 %	180.0 %	0.6 %	22.9 %	3.7 %	77.7 %	173.2 %	4.5 %	3.5 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	574.158 ppb	114.238 %	121.679 %	0.103 ppb	3.752 ppb
Concentration per Run 1	572.529 ppb	114.535 %	120.767 %	0.073 ppb	3.776 ppb
Concentration per Run 2	574.897 ppb	109.715 %	119.427 %	0.115 ppb	3.743 ppb
Concentration per Run 3	575.050 ppb	118.464 %	124.842 %	0.120 ppb	3.736 ppb
Concentration RSD	0.2 %	3.8 %	2.3 %	25.1 %	0.6 %

Alpha ICPMSQ Data with SRD

6/26/2024 10:46:24 AM

Analysis index:	41	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	L2434612-23 6020SL	Rack	1		
Analysis started at:	6/26/2024 7:03:09 AM	Vial	18		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	84.664 %	81.242 %	0.013 ppb	100,717.318 ppb	4,983.163 ppb	4.763 ppb	3,826.308 ppb	58,554.452 ppb	88.903 %
Concentration per Run 1	87.454 %	77.122 %	0.009 ppb	106,490.732 ppb	5,304.441 ppb	5.192 ppb	4,133.855 ppb	61,684.700 ppb	89.090 %
Concentration per Run 2	83.636 %	79.520 %	0.017 ppb	99,387.314 ppb	4,853.512 ppb	4.243 ppb	3,646.143 ppb	55,773.005 ppb	88.436 %
Concentration per Run 3	82.903 %	87.085 %	0.012 ppb	96,273.909 ppb	4,791.536 ppb	4.855 ppb	3,698.925 ppb	58,205.652 ppb	89.183 %
Concentration RSD	2.9 %	6.4 %	32.3 %	5.2 %	5.6 %	10.1 %	7.0 %	5.1 %	0.5 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.238 ppb	0.084 ppb	5,340.165 ppb	46.286 ppb	3.075 ppb	3.048 ppb	0.842 ppb	7.219 ppb	94.611 %
Concentration per Run 1	0.146 ppb	0.081 ppb	5,554.930 ppb	49.312 ppb	3.312 ppb	3.171 ppb	0.757 ppb	7.674 ppb	92.081 %
Concentration per Run 2	0.388 ppb	0.073 ppb	5,204.726 ppb	47.694 ppb	3.072 ppb	2.972 ppb	0.897 ppb	6.881 ppb	93.429 %
Concentration per Run 3	0.179 ppb	0.098 ppb	5,260.838 ppb	41.852 ppb	2.841 ppb	3.000 ppb	0.873 ppb	7.100 ppb	98.324 %
Concentration RSD	55.3 %	15.6 %	3.5 %	8.5 %	7.7 %	3.5 %	8.9 %	5.7 %	3.5 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	-0.534 ppb	0.279 ppb	200.457 ppb	0.788 ppb	104.374 %	-0.001 ppb	0.007 ppb	107.577 %	0.449 ppb
Concentration per Run 1	-0.346 ppb	0.391 ppb	204.749 ppb	0.788 ppb	104.402 %	-0.005 ppb	0.011 ppb	109.905 %	0.369 ppb
Concentration per Run 2	-0.560 ppb	0.119 ppb	194.409 ppb	0.748 ppb	101.675 %	0.001 ppb	0.006 ppb	100.463 %	0.489 ppb
Concentration per Run 3	-0.697 ppb	0.325 ppb	202.213 ppb	0.829 ppb	107.047 %	0.000 ppb	0.005 ppb	112.363 %	0.489 ppb
Concentration RSD	33.1 %	51.0 %	2.7 %	5.1 %	2.6 %	229.4 %	41.9 %	5.8 %	15.4 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	48.640 ppb	114.348 %	125.558 %	0.099 ppb	0.044 ppb
Concentration per Run 1	51.745 ppb	112.456 %	124.938 %	0.072 ppb	0.043 ppb
Concentration per Run 2	47.714 ppb	113.827 %	121.329 %	0.108 ppb	0.041 ppb
Concentration per Run 3	46.460 ppb	116.761 %	130.408 %	0.117 ppb	0.048 ppb
Concentration RSD	5.7 %	1.9 %	3.6 %	23.9 %	7.7 %

Alpha ICPMSQ Data with SRD

6/26/2024 10:46:24 AM

Analysis index:	42	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	CCV	Rack	0		
Analysis started at:	6/26/2024 7:07:47 AM	Vial	9		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	85.010 %	92.066 %	58.762 ppb	5,534.970 ppb	5,525.005 ppb	51.429 ppb	5,305.593 ppb	6,028.426 ppb	90.866 %
Concentration per Run 1	86.877 %	86.716 %	58.582 ppb	5,697.368 ppb	5,584.766 ppb	54.462 ppb	5,332.142 ppb	5,932.045 ppb	91.649 %
Concentration per Run 2	85.228 %	94.096 %	58.485 ppb	5,509.880 ppb	5,641.893 ppb	50.040 ppb	5,321.100 ppb	6,221.680 ppb	90.806 %
Concentration per Run 3	82.925 %	95.387 %	59.219 ppb	5,397.664 ppb	5,348.355 ppb	49.784 ppb	5,263.538 ppb	5,931.552 ppb	90.144 %
Recovery Percentage 1			97.937 %	92.250 %	92.083 %	85.715 %	88.427 %	100.474 %	
Concentration RSD	2.3 %	5.1 %	0.7 %	2.7 %	2.8 %	5.1 %	0.7 %	2.8 %	0.8 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	64.958 ppb	71.914 ppb	58.643 ppb	5,599.270 ppb	58.187 ppb	54.821 ppb	59.959 ppb	59.348 ppb	97.399 %
Concentration per Run 1	69.082 ppb	74.921 ppb	59.553 ppb	5,855.734 ppb	60.663 ppb	56.867 ppb	62.910 ppb	61.490 ppb	89.991 %
Concentration per Run 2	62.480 ppb	69.738 ppb	56.014 ppb	5,441.839 ppb	56.396 ppb	52.616 ppb	57.685 ppb	58.433 ppb	101.773 %
Concentration per Run 3	63.314 ppb	71.084 ppb	60.362 ppb	5,500.237 ppb	57.503 ppb	54.981 ppb	59.282 ppb	58.119 ppb	100.433 %
Recovery Percentage 1	108.264 %	119.857 %	97.738 %	93.321 %	96.979 %	91.368 %	99.931 %	98.913 %	
Concentration RSD	5.5 %	3.7 %	3.9 %	4.0 %	3.8 %	3.9 %	4.5 %	3.1 %	6.6 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	56.031 ppb	58.907 ppb	58.340 ppb	57.803 ppb	108.736 %	60.017 ppb	60.760 ppb	109.590 %	59.733 ppb
Concentration per Run 1	57.401 ppb	59.857 ppb	58.023 ppb	55.467 ppb	104.975 %	59.963 ppb	59.014 ppb	106.032 %	57.514 ppb
Concentration per Run 2	53.992 ppb	59.035 ppb	58.322 ppb	57.881 ppb	110.758 %	59.946 ppb	62.259 ppb	110.362 %	60.509 ppb
Concentration per Run 3	56.700 ppb	57.831 ppb	58.674 ppb	60.063 ppb	110.474 %	60.141 ppb	61.008 ppb	112.377 %	61.176 ppb
Recovery Percentage 1	93.385 %	98.179 %	97.233 %	96.339 %		100.028 %	101.267 %		99.555 %
Concentration RSD	3.2 %	1.7 %	0.6 %	4.0 %	3.0 %	0.2 %	2.7 %	3.0 %	3.3 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	61.196 ppb	114.395 %	122.930 %	59.776 ppb	60.804 ppb
Concentration per Run 1	61.071 ppb	109.135 %	114.762 %	62.187 ppb	63.008 ppb
Concentration per Run 2	62.358 ppb	118.727 %	128.599 %	57.288 ppb	58.292 ppb
Concentration per Run 3	60.159 ppb	115.323 %	125.428 %	59.854 ppb	61.111 ppb
Recovery Percentage 1	101.994 %			99.627 %	101.339 %
Concentration RSD	1.8 %	4.3 %	5.9 %	4.1 %	3.9 %

Alpha ICPMSQ Data with SRD

6/26/2024 10:46:24 AM

Analysis index:	43	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	CCB	Rack	0		
Analysis started at:	6/26/2024 7:12:29 AM	Vial	10		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	84.546 %	90.344 %	0.014 ppb	14.763 ppb	0.769 ppb	0.597 ppb	-15.277 ppb	-10.618 ppb	84.446 %
Concentration per Run 1	86.723 %	86.347 %	0.010 ppb	22.329 ppb	1.663 ppb	0.424 ppb	-28.557 ppb	-19.844 ppb	84.813 %
Concentration per Run 2	84.955 %	96.494 %	0.010 ppb	2.880 ppb	0.928 ppb	0.325 ppb	-10.202 ppb	-10.160 ppb	85.401 %
Concentration per Run 3	81.959 %	88.192 %	0.022 ppb	19.081 ppb	-0.284 ppb	1.042 ppb	-7.073 ppb	-1.851 ppb	83.124 %
Recovery Percentage 1			2.782 %	14.763 %	1.099 %	5.971 %	-15.277 %	-10.618 %	
Concentration RSD	2.8 %	6.0 %	49.0 %	70.6 %	127.9 %	65.1 %	76.0 %	84.8 %	1.4 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	-0.028 ppb	0.060 ppb	0.094 ppb	8.748 ppb	0.003 ppb	-0.052 ppb	0.013 ppb	0.001 ppb	92.390 %
Concentration per Run 1	-0.087 ppb	0.149 ppb	-0.065 ppb	10.092 ppb	0.006 ppb	-0.048 ppb	-0.004 ppb	-0.009 ppb	88.111 %
Concentration per Run 2	-0.035 ppb	-0.048 ppb	0.043 ppb	8.240 ppb	0.010 ppb	-0.058 ppb	0.022 ppb	-0.006 ppb	93.137 %
Concentration per Run 3	0.038 ppb	0.078 ppb	0.303 ppb	7.912 ppb	-0.007 ppb	-0.049 ppb	0.021 ppb	0.019 ppb	95.923 %
Recovery Percentage 1	-0.558 %	5.969 %	9.374 %	17.496 %	0.585 %	-2.576 %	1.294 %	0.027 %	
Concentration RSD	225.9 %	166.9 %	202.1 %	13.4 %	309.7 %	10.7 %	113.7 %	1,151.8 %	4.3 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	-0.570 ppb	0.249 ppb	0.026 ppb	0.820 ppb	107.551 %	0.001 ppb	0.007 ppb	107.876 %	0.093 ppb
Concentration per Run 1	-0.236 ppb	0.267 ppb	0.043 ppb	0.866 ppb	105.015 %	0.004 ppb	0.011 ppb	101.918 %	0.117 ppb
Concentration per Run 2	-0.588 ppb	0.537 ppb	0.026 ppb	0.869 ppb	108.989 %	-0.001 ppb	0.005 ppb	111.773 %	0.093 ppb
Concentration per Run 3	-0.887 ppb	-0.059 ppb	0.009 ppb	0.725 ppb	108.649 %	0.000 ppb	0.005 ppb	109.938 %	0.068 ppb
Recovery Percentage 1	-114.019 %	4.975 %	0.261 %	41.011 %		0.286 %	3.600 %		2.317 %
Concentration RSD	57.1 %	120.0 %	64.3 %	10.0 %	2.0 %	229.0 %	47.7 %	4.9 %	26.6 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	0.030 ppb	111.487 %	120.493 %	0.437 ppb	0.035 ppb
Concentration per Run 1	0.047 ppb	108.334 %	115.980 %	0.297 ppb	0.040 ppb
Concentration per Run 2	0.000 ppb	112.515 %	122.577 %	0.527 ppb	0.033 ppb
Concentration per Run 3	0.044 ppb	113.613 %	122.923 %	0.486 ppb	0.032 ppb
Recovery Percentage 1	6.019 %			43.668 %	3.466 %
Concentration RSD	86.7 %	2.5 %	3.2 %	28.1 %	12.4 %

Alpha ICPMSQ Data with SRD

6/26/2024 10:46:24 AM

Analysis index:	44	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	CCV	Rack	0		
Analysis started at:	6/26/2024 7:23:23 AM	Vial	9		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	86.119 %	91.574 %	59.847 ppb	5,658.778 ppb	5,815.933 ppb	56.074 ppb	5,436.742 ppb	6,195.077 ppb	91.000 %
Concentration per Run 1	88.204 %	91.513 %	60.244 ppb	5,600.246 ppb	5,784.944 ppb	58.227 ppb	5,572.686 ppb	6,363.557 ppb	91.510 %
Concentration per Run 2	86.425 %	92.435 %	59.312 ppb	5,806.493 ppb	5,915.034 ppb	56.390 ppb	5,484.545 ppb	6,148.835 ppb	91.399 %
Concentration per Run 3	83.726 %	90.775 %	59.987 ppb	5,569.595 ppb	5,747.820 ppb	53.605 ppb	5,252.994 ppb	6,072.841 ppb	90.091 %
Recovery Percentage 1			99.746 %	94.313 %	96.932 %	93.457 %	90.612 %	103.251 %	
Concentration RSD	2.6 %	0.9 %	0.8 %	2.3 %	1.5 %	4.1 %	3.0 %	2.4 %	0.9 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	65.208 ppb	72.398 ppb	59.318 ppb	5,588.106 ppb	58.447 ppb	56.067 ppb	59.323 ppb	59.015 ppb	100.770 %
Concentration per Run 1	64.815 ppb	74.105 ppb	58.179 ppb	5,601.795 ppb	59.560 ppb	57.275 ppb	59.221 ppb	58.539 ppb	98.295 %
Concentration per Run 2	64.933 ppb	71.410 ppb	58.680 ppb	5,591.950 ppb	57.866 ppb	56.277 ppb	59.121 ppb	59.921 ppb	103.379 %
Concentration per Run 3	65.877 ppb	71.677 ppb	61.096 ppb	5,570.574 ppb	57.915 ppb	54.647 ppb	59.628 ppb	58.586 ppb	100.636 %
Recovery Percentage 1	108.680 %	120.663 %	98.864 %	93.135 %	97.412 %	93.444 %	98.872 %	98.359 %	
Concentration RSD	0.9 %	2.1 %	2.6 %	0.3 %	1.6 %	2.4 %	0.5 %	1.3 %	2.5 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	55.409 ppb	60.890 ppb	61.973 ppb	58.400 ppb	108.253 %	60.350 ppb	61.149 ppb	114.985 %	59.752 ppb
Concentration per Run 1	57.537 ppb	58.524 ppb	59.791 ppb	57.142 ppb	106.405 %	61.971 ppb	63.178 ppb	108.679 %	60.228 ppb
Concentration per Run 2	55.979 ppb	64.648 ppb	66.107 ppb	58.743 ppb	109.458 %	59.350 ppb	59.807 ppb	123.382 %	58.967 ppb
Concentration per Run 3	52.711 ppb	59.497 ppb	60.022 ppb	59.315 ppb	108.895 %	59.729 ppb	60.461 ppb	112.896 %	60.061 ppb
Recovery Percentage 1	92.348 %	101.483 %	103.289 %	97.333 %		100.584 %	101.915 %		99.587 %
Concentration RSD	4.4 %	5.4 %	5.8 %	1.9 %	1.5 %	2.3 %	2.9 %	6.6 %	1.1 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	63.185 ppb	115.366 %	127.767 %	60.181 ppb	61.183 ppb
Concentration per Run 1	63.801 ppb	113.079 %	119.982 %	62.882 ppb	63.564 ppb
Concentration per Run 2	63.021 ppb	119.288 %	135.448 %	56.842 ppb	58.033 ppb
Concentration per Run 3	62.733 ppb	113.730 %	127.872 %	60.818 ppb	61.953 ppb
Recovery Percentage 1	105.308 %			100.301 %	101.972 %
Concentration RSD	0.9 %	3.0 %	6.1 %	5.1 %	4.6 %

Alpha ICPMSQ Data with SRD

6/26/2024 10:46:24 AM

Analysis index:	45	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	CCB	Rack	0		
Analysis started at:	6/26/2024 7:28:05 AM	Vial	10		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	84.418 %	90.959 %	0.013 ppb	-11.575 ppb	-0.168 ppb	-0.146 ppb	-8.518 ppb	13.091 ppb	83.433 %
Concentration per Run 1	86.045 %	88.561 %	0.009 ppb	-6.934 ppb	0.195 ppb	0.485 ppb	-0.697 ppb	14.848 ppb	83.644 %
Concentration per Run 2	85.187 %	90.959 %	0.012 ppb	-8.687 ppb	-0.782 ppb	0.105 ppb	-16.342 ppb	17.073 ppb	84.087 %
Concentration per Run 3	82.023 %	93.358 %	0.017 ppb	-19.103 ppb	0.081 ppb	-1.028 ppb	-8.514 ppb	7.352 ppb	82.566 %
Recovery Percentage 1			2.534 %	-11.575 %	-0.240 %	-1.462 %	-8.518 %	13.091 %	
Concentration RSD	2.5 %	2.6 %	29.1 %	56.8 %	317.4 %	538.7 %	91.8 %	38.9 %	0.9 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	-0.076 ppb	0.071 ppb	0.073 ppb	7.674 ppb	0.005 ppb	-0.026 ppb	0.004 ppb	0.002 ppb	98.119 %
Concentration per Run 1	-0.050 ppb	0.095 ppb	-0.019 ppb	8.736 ppb	0.017 ppb	0.009 ppb	-0.006 ppb	0.001 ppb	90.433 %
Concentration per Run 2	-0.090 ppb	-0.012 ppb	0.136 ppb	8.047 ppb	0.006 ppb	-0.051 ppb	0.007 ppb	-0.053 ppb	104.705 %
Concentration per Run 3	-0.089 ppb	0.130 ppb	0.103 ppb	6.238 ppb	-0.007 ppb	-0.036 ppb	0.010 ppb	0.058 ppb	99.220 %
Recovery Percentage 1	-1.525 %	7.118 %	7.316 %	15.347 %	1.079 %	-1.316 %	0.397 %	0.037 %	
Concentration RSD	29.7 %	103.5 %	111.3 %	16.8 %	228.4 %	118.8 %	214.3 %	3,017.5 %	7.3 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	-0.675 ppb	0.345 ppb	0.016 ppb	0.712 ppb	108.949 %	0.002 ppb	0.011 ppb	111.930 %	0.120 ppb
Concentration per Run 1	-0.510 ppb	-0.052 ppb	0.027 ppb	0.852 ppb	104.655 %	0.004 ppb	0.022 ppb	105.903 %	0.128 ppb
Concentration per Run 2	-0.962 ppb	0.328 ppb	0.005 ppb	0.734 ppb	113.089 %	0.000 ppb	0.005 ppb	121.583 %	0.108 ppb
Concentration per Run 3	-0.552 ppb	0.761 ppb	0.016 ppb	0.549 ppb	109.102 %	0.003 ppb	0.005 ppb	108.305 %	0.124 ppb
Recovery Percentage 1	-134.920 %	6.907 %	0.163 %	35.594 %		0.538 %	5.321 %		3.006 %
Concentration RSD	37.0 %	117.8 %	67.0 %	21.4 %	3.9 %	96.1 %	90.8 %	7.5 %	8.6 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	0.015 ppb	115.131 %	125.294 %	0.436 ppb	0.032 ppb
Concentration per Run 1	0.000 ppb	110.759 %	119.956 %	0.311 ppb	0.042 ppb
Concentration per Run 2	0.000 ppb	121.534 %	133.131 %	0.495 ppb	0.029 ppb
Concentration per Run 3	0.044 ppb	113.099 %	122.795 %	0.502 ppb	0.026 ppb
Recovery Percentage 1	2.946 %			43.588 %	3.247 %
Concentration RSD	173.2 %	4.9 %	5.5 %	24.9 %	25.7 %

Alpha ICPMSQ Data with SRD

6/26/2024 10:46:24 AM

Analysis index:	46	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	wg1939020-1 6020SL	Rack	1		
Analysis started at:	6/26/2024 7:38:42 AM	Vial	8		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	91.541 %	86.593 %	0.012 ppb	20.166 ppb	2.363 ppb	1.503 ppb	-6.949 ppb	18.220 ppb	91.525 %
Concentration per Run 1	93.127 %	80.812 %	0.018 ppb	34.934 ppb	3.185 ppb	0.835 ppb	-3.842 ppb	18.227 ppb	91.290 %
Concentration per Run 2	90.776 %	88.930 %	0.013 ppb	27.086 ppb	1.987 ppb	1.994 ppb	-0.212 ppb	20.799 ppb	91.627 %
Concentration per Run 3	90.721 %	90.037 %	0.006 ppb	-1.523 ppb	1.918 ppb	1.682 ppb	-16.795 ppb	15.634 ppb	91.659 %
Concentration RSD	1.5 %	5.8 %	49.0 %	95.2 %	30.1 %	39.9 %	125.4 %	14.2 %	0.2 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	-0.064 ppb	0.078 ppb	0.217 ppb	9.344 ppb	0.025 ppb	0.086 ppb	0.148 ppb	0.839 ppb	96.294 %
Concentration per Run 1	-0.106 ppb	0.101 ppb	0.078 ppb	8.400 ppb	0.025 ppb	0.069 ppb	0.155 ppb	0.816 ppb	96.587 %
Concentration per Run 2	-0.033 ppb	0.095 ppb	0.284 ppb	10.337 ppb	0.028 ppb	0.079 ppb	0.104 ppb	0.793 ppb	94.387 %
Concentration per Run 3	-0.053 ppb	0.038 ppb	0.290 ppb	9.294 ppb	0.021 ppb	0.108 ppb	0.185 ppb	0.907 ppb	97.907 %
Concentration RSD	58.6 %	44.8 %	55.6 %	10.4 %	13.9 %	23.5 %	27.7 %	7.2 %	1.8 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	-0.889 ppb	0.030 ppb	0.065 ppb	0.211 ppb	106.504 %	0.002 ppb	0.004 ppb	105.420 %	0.532 ppb
Concentration per Run 1	-0.761 ppb	0.335 ppb	0.093 ppb	0.174 ppb	103.868 %	-0.002 ppb	0.005 ppb	106.851 %	0.484 ppb
Concentration per Run 2	-0.817 ppb	-0.202 ppb	0.056 ppb	0.185 ppb	110.961 %	-0.001 ppb	0.000 ppb	107.228 %	0.593 ppb
Concentration per Run 3	-1.089 ppb	-0.043 ppb	0.047 ppb	0.274 ppb	104.684 %	0.009 ppb	0.006 ppb	102.180 %	0.518 ppb
Concentration RSD	19.7 %	912.6 %	37.4 %	26.0 %	3.6 %	293.0 %	86.6 %	2.7 %	10.5 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	0.106 ppb	110.465 %	119.672 %	0.093 ppb	0.266 ppb
Concentration per Run 1	0.090 ppb	110.246 %	116.600 %	0.059 ppb	0.269 ppb
Concentration per Run 2	0.089 ppb	112.527 %	122.639 %	0.112 ppb	0.267 ppb
Concentration per Run 3	0.139 ppb	108.622 %	119.776 %	0.109 ppb	0.262 ppb
Concentration RSD	27.0 %	1.8 %	2.5 %	31.7 %	1.4 %

Alpha ICPMSQ Data with SRD

6/26/2024 10:46:24 AM

Analysis index:	47	User name	ALPHALAB\Metals-Instrument	Comment	FB
Analysis label:	L2434492-02 6020SL	Rack	1		
Analysis started at:	6/26/2024 7:43:23 AM	Vial	15		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	90.004 %	84.625 %	0.010 ppb	20.234 ppb	1.793 ppb	2.747 ppb	-1.995 ppb	8.807 ppb	89.431 %
Concentration per Run 1	91.335 %	80.812 %	0.013 ppb	38.815 ppb	0.826 ppb	4.151 ppb	16.701 ppb	-11.470 ppb	89.556 %
Concentration per Run 2	90.236 %	85.793 %	0.008 ppb	19.113 ppb	1.101 ppb	1.531 ppb	3.325 ppb	11.912 ppb	89.528 %
Concentration per Run 3	88.440 %	87.269 %	0.010 ppb	2.773 ppb	3.452 ppb	2.559 ppb	-26.011 ppb	25.977 ppb	89.209 %
Concentration RSD	1.6 %	4.0 %	21.4 %	89.2 %	80.5 %	48.1 %	1,095.0 %	214.8 %	0.2 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	-0.051 ppb	0.027 ppb	0.019 ppb	6.525 ppb	0.015 ppb	-0.001 ppb	0.111 ppb	0.872 ppb	93.812 %
Concentration per Run 1	-0.048 ppb	0.071 ppb	-0.062 ppb	6.317 ppb	0.015 ppb	-0.036 ppb	0.116 ppb	0.842 ppb	88.913 %
Concentration per Run 2	-0.036 ppb	-0.027 ppb	0.034 ppb	6.343 ppb	0.013 ppb	0.058 ppb	0.110 ppb	0.883 ppb	100.270 %
Concentration per Run 3	-0.069 ppb	0.038 ppb	0.084 ppb	6.914 ppb	0.017 ppb	-0.024 ppb	0.108 ppb	0.892 ppb	92.254 %
Concentration RSD	33.4 %	181.6 %	395.3 %	5.2 %	15.1 %	7,392.1 %	3.5 %	3.1 %	6.2 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	-0.846 ppb	-0.101 ppb	0.074 ppb	0.142 ppb	105.825 %	0.000 ppb	0.002 ppb	105.391 %	0.461 ppb
Concentration per Run 1	-0.437 ppb	-0.176 ppb	0.077 ppb	0.126 ppb	103.926 %	0.001 ppb	0.000 ppb	102.831 %	0.455 ppb
Concentration per Run 2	-1.111 ppb	-0.054 ppb	0.087 ppb	0.127 ppb	108.084 %	-0.001 ppb	0.005 ppb	109.619 %	0.392 ppb
Concentration per Run 3	-0.989 ppb	-0.073 ppb	0.059 ppb	0.174 ppb	105.466 %	0.000 ppb	0.000 ppb	103.723 %	0.535 ppb
Concentration RSD	42.5 %	65.0 %	19.4 %	19.4 %	2.0 %	1,373.5 %	173.2 %	3.5 %	15.5 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	0.030 ppb	111.992 %	121.137 %	0.067 ppb	0.028 ppb
Concentration per Run 1	0.046 ppb	111.365 %	119.151 %	0.036 ppb	0.025 ppb
Concentration per Run 2	0.000 ppb	114.791 %	127.214 %	0.076 ppb	0.027 ppb
Concentration per Run 3	0.046 ppb	109.821 %	117.045 %	0.087 ppb	0.031 ppb
Concentration RSD	86.6 %	2.3 %	4.4 %	40.0 %	12.2 %

Alpha ICPMSQ Data with SRD

6/26/2024 10:46:24 AM

Analysis index:	48	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	WG1939089-1 A2-6020T	Rack	1		
Analysis started at:	6/26/2024 7:48:01 AM	Vial	26		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	95.384 %	87.269 %	0.010 ppb	-17.213 ppb	3.191 ppb	5.024 ppb	1.449 ppb	3.168 ppb	116.620 %
Concentration per Run 1	97.424 %	83.948 %	0.011 ppb	-4.516 ppb	1.687 ppb	6.290 ppb	-2.299 ppb	-8.649 ppb	117.827 %
Concentration per Run 2	95.701 %	86.900 %	0.011 ppb	-21.050 ppb	4.595 ppb	5.652 ppb	6.489 ppb	1.404 ppb	117.914 %
Concentration per Run 3	93.028 %	90.959 %	0.008 ppb	-26.071 ppb	3.290 ppb	3.130 ppb	0.158 ppb	16.748 ppb	114.119 %
Concentration RSD	2.3 %	4.0 %	21.1 %	65.5 %	45.6 %	33.3 %	312.8 %	403.8 %	1.9 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	-0.048 ppb	0.943 ppb	0.929 ppb	29.859 ppb	0.030 ppb	0.298 ppb	0.189 ppb	2.873 ppb	89.062 %
Concentration per Run 1	-0.050 ppb	0.990 ppb	0.520 ppb	34.215 ppb	0.035 ppb	0.157 ppb	0.216 ppb	2.722 ppb	92.442 %
Concentration per Run 2	-0.026 ppb	0.967 ppb	0.798 ppb	32.648 ppb	0.033 ppb	0.498 ppb	0.238 ppb	3.026 ppb	81.772 %
Concentration per Run 3	-0.070 ppb	0.873 ppb	1.470 ppb	22.715 ppb	0.023 ppb	0.238 ppb	0.114 ppb	2.870 ppb	92.971 %
Concentration RSD	45.8 %	6.6 %	52.6 %	20.9 %	22.5 %	59.8 %	35.1 %	5.3 %	7.1 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	-0.637 ppb	0.058 ppb	0.088 ppb	1.140 ppb	103.467 %	-0.001 ppb	0.000 ppb	102.350 %	0.253 ppb
Concentration per Run 1	-0.657 ppb	0.104 ppb	0.088 ppb	1.496 ppb	101.105 %	0.001 ppb	0.000 ppb	98.107 %	0.257 ppb
Concentration per Run 2	-0.446 ppb	-0.022 ppb	0.088 ppb	1.047 ppb	102.957 %	-0.003 ppb	0.000 ppb	97.879 %	0.253 ppb
Concentration per Run 3	-0.807 ppb	0.092 ppb	0.089 ppb	0.876 ppb	106.338 %	-0.001 ppb	0.000 ppb	111.063 %	0.248 ppb
Concentration RSD	28.5 %	120.1 %	0.4 %	28.1 %	2.6 %	184.7 %	N/A	7.4 %	1.7 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	0.112 ppb	109.094 %	116.783 %	0.135 ppb	0.233 ppb
Concentration per Run 1	0.144 ppb	106.378 %	112.476 %	0.076 ppb	0.247 ppb
Concentration per Run 2	0.192 ppb	106.372 %	114.872 %	0.166 ppb	0.232 ppb
Concentration per Run 3	0.000 ppb	114.532 %	123.002 %	0.162 ppb	0.220 ppb
Concentration RSD	89.2 %	4.3 %	4.7 %	38.0 %	5.8 %

Alpha ICPMSQ Data with SRD

6/26/2024 10:46:24 AM

Analysis index:	49	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	L2434612-24 6020SL	Rack	1		
Analysis started at:	6/26/2024 7:52:38 AM	Vial	19		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	89.642 %	90.836 %	0.009 ppb	27,418.710 ppb	11.333 ppb	1,333.563 ppb	3,074.840 ppb	52,323.726 ppb	84.277 %
Concentration per Run 1	91.535 %	96.125 %	-0.002 ppb	27,722.587 ppb	8.531 ppb	1,305.162 ppb	3,144.960 ppb	52,077.716 ppb	85.239 %
Concentration per Run 2	90.042 %	87.454 %	0.018 ppb	27,206.914 ppb	11.953 ppb	1,293.660 ppb	2,868.244 ppb	49,971.870 ppb	84.010 %
Concentration per Run 3	87.348 %	88.930 %	0.010 ppb	27,326.629 ppb	13.516 ppb	1,401.868 ppb	3,211.317 ppb	54,921.591 ppb	83.582 %
Concentration RSD	2.4 %	5.1 %	116.2 %	1.0 %	22.5 %	4.5 %	5.9 %	4.7 %	1.0 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	20.105 ppb	42.356 ppb	1.234 ppb	18.742 ppb	0.296 ppb	2.467 ppb	5.298 ppb	1.819 ppb	99.796 %
Concentration per Run 1	20.093 ppb	42.401 ppb	1.164 ppb	20.587 ppb	0.319 ppb	2.527 ppb	5.332 ppb	1.870 ppb	98.938 %
Concentration per Run 2	19.297 ppb	41.586 ppb	0.894 ppb	16.560 ppb	0.336 ppb	2.323 ppb	5.543 ppb	1.593 ppb	99.446 %
Concentration per Run 3	20.926 ppb	43.081 ppb	1.645 ppb	19.078 ppb	0.233 ppb	2.550 ppb	5.019 ppb	1.993 ppb	101.003 %
Concentration RSD	4.1 %	1.8 %	30.8 %	10.9 %	18.7 %	5.1 %	5.0 %	11.3 %	1.1 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	14.782 ppb	2.208 ppb	106.116 ppb	7.511 ppb	106.396 %	0.004 ppb	0.020 ppb	107.512 %	1.034 ppb
Concentration per Run 1	15.264 ppb	2.170 ppb	108.511 ppb	7.265 ppb	105.989 %	-0.001 ppb	0.016 ppb	108.723 %	0.977 ppb
Concentration per Run 2	14.377 ppb	3.032 ppb	101.514 ppb	7.647 ppb	104.684 %	0.003 ppb	0.034 ppb	99.362 %	1.096 ppb
Concentration per Run 3	14.704 ppb	1.422 ppb	108.322 ppb	7.622 ppb	108.514 %	0.010 ppb	0.010 ppb	114.450 %	1.030 ppb
Concentration RSD	3.0 %	36.5 %	3.8 %	2.8 %	1.8 %	135.1 %	62.0 %	7.1 %	5.8 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	13.834 ppb	112.592 %	122.911 %	0.049 ppb	0.154 ppb
Concentration per Run 1	12.559 ppb	112.505 %	122.513 %	0.027 ppb	0.157 ppb
Concentration per Run 2	14.270 ppb	109.057 %	118.266 %	0.059 ppb	0.164 ppb
Concentration per Run 3	14.675 ppb	116.215 %	127.954 %	0.062 ppb	0.142 ppb
Concentration RSD	8.1 %	3.2 %	4.0 %	39.3 %	7.5 %

Alpha ICPMSQ Data with SRD

6/26/2024 10:46:24 AM

Analysis index:	50	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	L2434612-25 6020SL	Rack	1		
Analysis started at:	6/26/2024 7:57:17 AM	Vial	20		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	84.697 %	84.748 %	0.020 ppb	297,281.459 ppb	5,892.877 ppb	4.362 ppb	3,155.138 ppb	42,295.743 ppb	87.064 %
Concentration per Run 1	86.570 %	81.550 %	0.026 ppb	311,552.802 ppb	6,126.097 ppb	4.287 ppb	3,196.716 ppb	44,516.484 ppb	86.877 %
Concentration per Run 2	84.810 %	78.229 %	0.016 ppb	303,251.210 ppb	6,159.499 ppb	5.143 ppb	3,109.871 ppb	43,298.234 ppb	87.937 %
Concentration per Run 3	82.710 %	94.465 %	0.019 ppb	277,040.365 ppb	5,393.034 ppb	3.654 ppb	3,158.827 ppb	39,072.511 ppb	86.379 %
Concentration RSD	2.3 %	10.1 %	26.4 %	6.1 %	7.4 %	17.1 %	1.4 %	6.8 %	0.9 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.109 ppb	0.192 ppb	869.025 ppb	191.330 ppb	0.253 ppb	1.085 ppb	0.534 ppb	324.254 ppb	91.291 %
Concentration per Run 1	0.141 ppb	0.270 ppb	863.492 ppb	197.346 ppb	0.230 ppb	1.043 ppb	0.602 ppb	325.006 ppb	92.573 %
Concentration per Run 2	0.095 ppb	0.265 ppb	882.753 ppb	186.103 ppb	0.262 ppb	1.295 ppb	0.433 ppb	329.112 ppb	86.488 %
Concentration per Run 3	0.090 ppb	0.040 ppb	860.830 ppb	190.542 ppb	0.268 ppb	0.917 ppb	0.568 ppb	318.645 ppb	94.811 %
Concentration RSD	25.7 %	68.4 %	1.4 %	3.0 %	8.0 %	17.7 %	16.7 %	1.6 %	4.7 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	-0.238 ppb	0.154 ppb	176.038 ppb	1.082 ppb	100.237 %	-0.003 ppb	0.000 ppb	102.487 %	0.828 ppb
Concentration per Run 1	-0.288 ppb	0.263 ppb	175.853 ppb	1.078 ppb	98.913 %	-0.005 ppb	0.000 ppb	104.352 %	0.803 ppb
Concentration per Run 2	-0.004 ppb	0.101 ppb	172.731 ppb	1.068 ppb	98.593 %	-0.003 ppb	0.000 ppb	95.263 %	0.844 ppb
Concentration per Run 3	-0.422 ppb	0.097 ppb	179.530 ppb	1.100 ppb	103.207 %	-0.001 ppb	0.000 ppb	107.845 %	0.838 ppb
Concentration RSD	89.6 %	61.3 %	1.9 %	1.5 %	2.6 %	78.9 %	N/A	6.3 %	2.6 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	58.802 ppb	108.835 %	119.263 %	0.041 ppb	0.106 ppb
Concentration per Run 1	56.881 ppb	109.287 %	120.893 %	0.019 ppb	0.104 ppb
Concentration per Run 2	58.302 ppb	105.957 %	113.922 %	0.054 ppb	0.107 ppb
Concentration per Run 3	61.224 ppb	111.260 %	122.975 %	0.049 ppb	0.106 ppb
Concentration RSD	3.8 %	2.5 %	4.0 %	47.1 %	1.3 %

Alpha ICPMSQ Data with SRD

6/26/2024 10:46:24 AM

Analysis index:	51	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	L2434612-26 6020SL	Rack	1		
Analysis started at:	6/26/2024 8:01:56 AM	Vial	21		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	90.988 %	85.609 %	0.019 ppb	20,642.978 ppb	6,028.955 ppb	19.804 ppb	702.327 ppb	31,840.235 ppb	91.291 %
Concentration per Run 1	93.132 %	82.657 %	0.013 ppb	20,945.645 ppb	6,092.682 ppb	18.898 ppb	673.747 ppb	31,519.018 ppb	92.017 %
Concentration per Run 2	90.559 %	85.424 %	0.025 ppb	20,646.741 ppb	6,030.343 ppb	20.080 ppb	734.182 ppb	31,946.968 ppb	91.603 %
Concentration per Run 3	89.273 %	88.745 %	0.018 ppb	20,336.548 ppb	5,963.839 ppb	20.434 ppb	699.052 ppb	32,054.719 ppb	90.252 %
Concentration RSD	2.2 %	3.6 %	29.7 %	1.5 %	1.1 %	4.1 %	4.3 %	0.9 %	1.0 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.087 ppb	0.035 ppb	70.627 ppb	17.208 ppb	0.188 ppb	3.459 ppb	0.538 ppb	5.024 ppb	101.227 %
Concentration per Run 1	0.091 ppb	0.048 ppb	71.971 ppb	14.782 ppb	0.218 ppb	3.417 ppb	0.484 ppb	4.931 ppb	100.072 %
Concentration per Run 2	0.051 ppb	0.013 ppb	68.623 ppb	15.286 ppb	0.173 ppb	3.283 ppb	0.562 ppb	5.139 ppb	102.376 %
Concentration per Run 3	0.120 ppb	0.043 ppb	71.287 ppb	21.557 ppb	0.174 ppb	3.677 ppb	0.566 ppb	5.003 ppb	101.232 %
Concentration RSD	39.8 %	55.1 %	2.5 %	21.9 %	13.6 %	5.8 %	8.6 %	2.1 %	1.1 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	-0.773 ppb	0.047 ppb	85.310 ppb	0.183 ppb	107.708 %	-0.003 ppb	0.027 ppb	107.707 %	0.569 ppb
Concentration per Run 1	-0.729 ppb	0.093 ppb	85.102 ppb	0.198 ppb	106.606 %	-0.004 ppb	0.038 ppb	104.977 %	0.529 ppb
Concentration per Run 2	-0.688 ppb	0.095 ppb	84.510 ppb	0.174 ppb	108.723 %	-0.001 ppb	0.026 ppb	108.995 %	0.666 ppb
Concentration per Run 3	-0.904 ppb	-0.047 ppb	86.318 ppb	0.176 ppb	107.796 %	-0.004 ppb	0.016 ppb	109.149 %	0.511 ppb
Concentration RSD	14.8 %	172.7 %	1.1 %	7.4 %	1.0 %	62.5 %	41.6 %	2.2 %	14.9 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	29.843 ppb	112.978 %	123.748 %	0.038 ppb	0.078 ppb
Concentration per Run 1	29.420 ppb	109.846 %	124.512 %	0.018 ppb	0.083 ppb
Concentration per Run 2	29.345 ppb	113.717 %	122.264 %	0.047 ppb	0.072 ppb
Concentration per Run 3	30.764 ppb	115.371 %	124.468 %	0.048 ppb	0.080 ppb
Concentration RSD	2.7 %	2.5 %	1.0 %	44.4 %	7.7 %

Alpha ICPMSQ Data with SRD

6/26/2024 10:46:24 AM

Analysis index:	52	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	L2434612-27 6020SL	Rack	1		
Analysis started at:	6/26/2024 8:06:35 AM	Vial	22		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	85.011 %	88.745 %	0.012 ppb	125,570.794 ppb	6,722.719 ppb	3.174 ppb	1,981.905 ppb	72,428.218 ppb	90.323 %
Concentration per Run 1	86.943 %	88.561 %	0.009 ppb	128,075.857 ppb	6,950.150 ppb	4.458 ppb	2,131.734 ppb	74,159.919 ppb	91.016 %
Concentration per Run 2	84.633 %	91.513 %	0.007 ppb	116,791.225 ppb	6,204.970 ppb	3.012 ppb	1,833.251 ppb	68,771.634 ppb	90.442 %
Concentration per Run 3	83.456 %	86.162 %	0.021 ppb	131,845.300 ppb	7,013.037 ppb	2.052 ppb	1,980.729 ppb	74,353.103 ppb	89.511 %
Concentration RSD	2.1 %	3.0 %	61.1 %	6.2 %	6.7 %	38.2 %	7.5 %	4.4 %	0.8 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	-0.053 ppb	0.197 ppb	876.192 ppb	4,771.447 ppb	0.147 ppb	0.706 ppb	0.265 ppb	11.685 ppb	97.337 %
Concentration per Run 1	-0.017 ppb	0.197 ppb	884.289 ppb	4,810.928 ppb	0.137 ppb	0.731 ppb	0.305 ppb	13.565 ppb	96.876 %
Concentration per Run 2	-0.036 ppb	0.235 ppb	832.195 ppb	4,586.208 ppb	0.139 ppb	0.645 ppb	0.255 ppb	11.461 ppb	98.844 %
Concentration per Run 3	-0.106 ppb	0.159 ppb	912.093 ppb	4,917.203 ppb	0.165 ppb	0.741 ppb	0.235 ppb	10.029 ppb	96.290 %
Concentration RSD	88.7 %	19.4 %	4.6 %	3.5 %	10.5 %	7.5 %	13.8 %	15.2 %	1.4 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	1.061 ppb	0.422 ppb	212.992 ppb	0.212 ppb	101.914 %	-0.001 ppb	0.024 ppb	104.021 %	0.241 ppb
Concentration per Run 1	1.413 ppb	0.790 ppb	216.128 ppb	0.188 ppb	101.651 %	0.001 ppb	0.011 ppb	107.724 %	0.233 ppb
Concentration per Run 2	0.974 ppb	0.239 ppb	204.757 ppb	0.287 ppb	98.487 %	-0.002 ppb	0.035 ppb	98.008 %	0.203 ppb
Concentration per Run 3	0.795 ppb	0.236 ppb	218.092 ppb	0.162 ppb	105.604 %	-0.001 ppb	0.027 ppb	106.332 %	0.286 ppb
Concentration RSD	30.0 %	75.6 %	3.4 %	31.2 %	3.5 %	179.9 %	50.7 %	5.1 %	17.3 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	168.986 ppb	113.365 %	122.021 %	0.037 ppb	0.045 ppb
Concentration per Run 1	169.847 ppb	110.852 %	118.370 %	0.013 ppb	0.048 ppb
Concentration per Run 2	172.741 ppb	110.903 %	117.396 %	0.046 ppb	0.049 ppb
Concentration per Run 3	164.369 ppb	118.340 %	130.295 %	0.051 ppb	0.039 ppb
Concentration RSD	2.5 %	3.8 %	5.9 %	57.3 %	11.4 %

Alpha ICPMSQ Data with SRD

6/26/2024 10:46:24 AM

Analysis index:	53	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	L2434612-28 6020SL	Rack	1		
Analysis started at:	6/26/2024 8:11:15 AM	Vial	23		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	85.215 %	86.839 %	0.005 ppb	219,384.603 ppb	11,502.204 ppb	3.098 ppb	4,577.581 ppb	94,479.119 ppb	92.026 %
Concentration per Run 1	87.707 %	83.210 %	-0.002 ppb	229,051.760 ppb	11,875.677 ppb	3.489 ppb	4,641.215 ppb	97,407.302 ppb	92.606 %
Concentration per Run 2	85.237 %	86.347 %	0.007 ppb	208,868.016 ppb	10,877.517 ppb	1.847 ppb	4,386.336 ppb	90,351.090 ppb	91.535 %
Concentration per Run 3	82.701 %	90.959 %	0.009 ppb	220,234.033 ppb	11,753.417 ppb	3.957 ppb	4,705.191 ppb	95,678.966 ppb	91.939 %
Concentration RSD	2.9 %	4.5 %	122.9 %	4.6 %	4.7 %	35.8 %	3.7 %	3.9 %	0.6 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	-0.036 ppb	-0.033 ppb	1,994.898 ppb	1,404.667 ppb	0.771 ppb	0.798 ppb	0.222 ppb	1.412 ppb	100.298 %
Concentration per Run 1	-0.033 ppb	-0.010 ppb	2,006.781 ppb	1,439.393 ppb	0.835 ppb	0.884 ppb	0.285 ppb	1.498 ppb	97.152 %
Concentration per Run 2	-0.051 ppb	-0.077 ppb	1,986.302 ppb	1,398.844 ppb	0.780 ppb	0.707 ppb	0.175 ppb	1.458 ppb	93.097 %
Concentration per Run 3	-0.025 ppb	-0.013 ppb	1,991.610 ppb	1,375.765 ppb	0.697 ppb	0.801 ppb	0.205 ppb	1.281 ppb	110.646 %
Concentration RSD	35.6 %	113.6 %	0.5 %	2.3 %	9.0 %	11.1 %	25.6 %	8.1 %	9.2 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.254 ppb	0.098 ppb	388.636 ppb	2.091 ppb	100.996 %	-0.002 ppb	0.000 ppb	107.113 %	0.284 ppb
Concentration per Run 1	0.571 ppb	0.236 ppb	386.733 ppb	2.219 ppb	99.209 %	-0.004 ppb	0.000 ppb	104.501 %	0.240 ppb
Concentration per Run 2	0.198 ppb	0.121 ppb	369.272 ppb	1.891 ppb	98.424 %	-0.002 ppb	0.000 ppb	97.020 %	0.286 ppb
Concentration per Run 3	-0.008 ppb	-0.063 ppb	409.902 ppb	2.164 ppb	105.355 %	0.000 ppb	0.000 ppb	119.819 %	0.327 ppb
Concentration RSD	115.7 %	153.6 %	5.2 %	8.4 %	3.8 %	117.6 %	N/A	10.8 %	15.4 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	505.600 ppb	111.623 %	123.981 %	0.028 ppb	0.465 ppb
Concentration per Run 1	509.505 ppb	111.483 %	121.819 %	0.011 ppb	0.461 ppb
Concentration per Run 2	507.810 ppb	106.148 %	116.919 %	0.032 ppb	0.487 ppb
Concentration per Run 3	499.485 ppb	117.237 %	133.204 %	0.040 ppb	0.449 ppb
Concentration RSD	1.1 %	5.0 %	6.7 %	53.7 %	4.2 %

Alpha ICPMSQ Data with SRD

6/26/2024 10:46:24 AM

Analysis index:	54	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	L2434612-29 6020SL	Rack	1		
Analysis started at:	6/26/2024 8:15:55 AM	Vial	24		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	87.120 %	86.716 %	0.009 ppb	138,176.118 ppb	6,297.606 ppb	2.350 ppb	4,145.282 ppb	63,081.142 ppb	93.363 %
Concentration per Run 1	89.378 %	88.007 %	0.007 ppb	136,422.240 ppb	6,209.093 ppb	2.592 ppb	4,046.876 ppb	63,626.215 ppb	94.607 %
Concentration per Run 2	86.816 %	90.037 %	0.010 ppb	132,676.071 ppb	6,140.402 ppb	2.347 ppb	4,038.081 ppb	60,453.044 ppb	92.942 %
Concentration per Run 3	85.166 %	82.103 %	0.009 ppb	145,430.042 ppb	6,543.324 ppb	2.111 ppb	4,350.889 ppb	65,164.166 ppb	92.540 %
Concentration RSD	2.4 %	4.8 %	16.6 %	4.7 %	3.4 %	10.2 %	4.3 %	3.8 %	1.2 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	-0.047 ppb	0.013 ppb	1,187.296 ppb	2,051.006 ppb	0.172 ppb	0.232 ppb	0.148 ppb	2.191 ppb	99.260 %
Concentration per Run 1	0.002 ppb	0.013 ppb	1,190.107 ppb	2,093.693 ppb	0.150 ppb	0.219 ppb	0.175 ppb	2.178 ppb	96.274 %
Concentration per Run 2	-0.037 ppb	0.019 ppb	1,190.691 ppb	2,040.275 ppb	0.163 ppb	0.250 ppb	0.130 ppb	2.094 ppb	100.351 %
Concentration per Run 3	-0.106 ppb	0.007 ppb	1,181.090 ppb	2,019.049 ppb	0.202 ppb	0.226 ppb	0.138 ppb	2.301 ppb	101.153 %
Concentration RSD	116.6 %	44.3 %	0.5 %	1.9 %	15.9 %	6.9 %	16.2 %	4.8 %	2.6 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	2.256 ppb	0.078 ppb	226.854 ppb	0.500 ppb	102.774 %	-0.003 ppb	0.002 ppb	107.002 %	0.191 ppb
Concentration per Run 1	2.503 ppb	0.230 ppb	229.561 ppb	0.486 ppb	100.274 %	0.002 ppb	0.000 ppb	104.212 %	0.163 ppb
Concentration per Run 2	2.390 ppb	-0.070 ppb	226.163 ppb	0.417 ppb	103.607 %	-0.005 ppb	0.005 ppb	106.825 %	0.182 ppb
Concentration per Run 3	1.876 ppb	0.074 ppb	224.839 ppb	0.596 ppb	104.441 %	-0.004 ppb	0.000 ppb	109.970 %	0.227 ppb
Concentration RSD	14.8 %	192.6 %	1.1 %	18.0 %	2.1 %	151.3 %	173.2 %	2.7 %	17.3 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	117.426 ppb	113.719 %	125.068 %	0.026 ppb	0.059 ppb
Concentration per Run 1	115.062 ppb	111.729 %	119.681 %	0.013 ppb	0.058 ppb
Concentration per Run 2	116.977 ppb	113.698 %	128.206 %	0.033 ppb	0.065 ppb
Concentration per Run 3	120.238 ppb	115.729 %	127.316 %	0.032 ppb	0.053 ppb
Concentration RSD	2.2 %	1.8 %	3.7 %	43.0 %	10.6 %

Alpha ICPMSQ Data with SRD

6/26/2024 10:46:24 AM

Analysis index:	55	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	L2434612-30 6020SL	Rack	1		
Analysis started at:	6/26/2024 8:20:35 AM	Vial	25		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	92.348 %	95.879 %	0.013 ppb	2,706.047 ppb	2,892.571 ppb	19.372 ppb	5,454.757 ppb	14,431.884 ppb	93.542 %
Concentration per Run 1	94.151 %	94.096 %	0.009 ppb	2,770.386 ppb	3,008.147 ppb	22.307 ppb	5,385.614 ppb	14,844.096 ppb	94.110 %
Concentration per Run 2	93.034 %	93.358 %	0.020 ppb	2,741.058 ppb	2,897.172 ppb	19.597 ppb	5,620.715 ppb	14,480.075 ppb	92.533 %
Concentration per Run 3	89.859 %	100.184 %	0.011 ppb	2,606.696 ppb	2,772.393 ppb	16.213 ppb	5,357.941 ppb	13,971.481 ppb	93.984 %
Concentration RSD	2.4 %	3.9 %	46.4 %	3.2 %	4.1 %	15.8 %	2.6 %	3.0 %	0.9 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.166 ppb	0.152 ppb	37.545 ppb	321.160 ppb	0.280 ppb	7.298 ppb	0.998 ppb	5.593 ppb	101.055 %
Concentration per Run 1	0.136 ppb	0.122 ppb	40.040 ppb	324.224 ppb	0.278 ppb	7.487 ppb	1.007 ppb	5.797 ppb	99.220 %
Concentration per Run 2	0.237 ppb	0.198 ppb	35.854 ppb	329.586 ppb	0.283 ppb	6.982 ppb	0.964 ppb	5.460 ppb	100.937 %
Concentration per Run 3	0.125 ppb	0.137 ppb	36.742 ppb	309.672 ppb	0.279 ppb	7.424 ppb	1.025 ppb	5.523 ppb	103.008 %
Concentration RSD	37.1 %	26.4 %	5.9 %	3.2 %	0.9 %	3.8 %	3.2 %	3.2 %	1.9 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	-0.305 ppb	0.899 ppb	49.883 ppb	0.257 ppb	107.721 %	0.002 ppb	0.037 ppb	108.767 %	0.464 ppb
Concentration per Run 1	-0.345 ppb	0.920 ppb	49.917 ppb	0.440 ppb	106.376 %	-0.001 ppb	0.027 ppb	107.649 %	0.423 ppb
Concentration per Run 2	-0.175 ppb	0.911 ppb	50.035 ppb	0.147 ppb	107.805 %	0.001 ppb	0.059 ppb	108.096 %	0.484 ppb
Concentration per Run 3	-0.395 ppb	0.866 ppb	49.698 ppb	0.183 ppb	108.983 %	0.005 ppb	0.026 ppb	110.555 %	0.485 ppb
Concentration RSD	37.9 %	3.2 %	0.3 %	62.3 %	1.2 %	153.9 %	49.9 %	1.4 %	7.6 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	26.164 ppb	115.359 %	124.603 %	0.025 ppb	0.221 ppb
Concentration per Run 1	26.783 ppb	114.080 %	120.921 %	0.010 ppb	0.238 ppb
Concentration per Run 2	25.618 ppb	115.693 %	126.995 %	0.031 ppb	0.214 ppb
Concentration per Run 3	26.091 ppb	116.305 %	125.892 %	0.034 ppb	0.212 ppb
Concentration RSD	2.2 %	1.0 %	2.6 %	51.8 %	6.3 %

Alpha ICPMSQ Data with SRD

6/26/2024 10:46:24 AM

Analysis index:	56	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	CCV	Rack	0		
Analysis started at:	6/26/2024 8:25:12 AM	Vial	9		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	87.787 %	95.818 %	59.684 ppb	5,559.533 ppb	5,666.180 ppb	52.876 ppb	5,551.371 ppb	6,257.008 ppb	92.249 %
Concentration per Run 1	90.184 %	96.125 %	59.288 ppb	5,852.097 ppb	6,056.190 ppb	53.984 ppb	6,056.999 ppb	6,792.252 ppb	93.282 %
Concentration per Run 2	87.870 %	94.465 %	59.584 ppb	5,544.512 ppb	5,675.041 ppb	56.258 ppb	5,596.388 ppb	6,062.044 ppb	92.719 %
Concentration per Run 3	85.307 %	96.863 %	60.180 ppb	5,281.989 ppb	5,267.310 ppb	48.386 ppb	5,000.727 ppb	5,916.730 ppb	90.746 %
Recovery Percentage 1			99.473 %	92.659 %	94.436 %	88.127 %	92.523 %	104.283 %	
Concentration RSD	2.8 %	1.3 %	0.8 %	5.1 %	7.0 %	7.7 %	9.5 %	7.5 %	1.4 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	67.165 ppb	73.596 ppb	60.823 ppb	5,685.939 ppb	58.335 ppb	56.116 ppb	61.353 ppb	60.915 ppb	98.682 %
Concentration per Run 1	67.461 ppb	71.357 ppb	57.110 ppb	5,584.518 ppb	57.759 ppb	56.182 ppb	58.808 ppb	60.345 ppb	104.751 %
Concentration per Run 2	68.515 ppb	75.813 ppb	64.812 ppb	5,857.663 ppb	59.464 ppb	56.759 ppb	62.114 ppb	62.356 ppb	96.120 %
Concentration per Run 3	65.518 ppb	73.617 ppb	60.548 ppb	5,615.636 ppb	57.784 ppb	55.407 ppb	63.137 ppb	60.043 ppb	95.174 %
Recovery Percentage 1	111.942 %	122.660 %	101.372 %	94.766 %	97.226 %	93.526 %	102.255 %	101.524 %	
Concentration RSD	2.3 %	3.0 %	6.3 %	2.6 %	1.7 %	1.2 %	3.7 %	2.1 %	5.3 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	56.592 ppb	59.253 ppb	61.264 ppb	57.472 ppb	109.001 %	60.802 ppb	61.917 ppb	110.535 %	58.491 ppb
Concentration per Run 1	56.677 ppb	62.543 ppb	64.335 ppb	55.037 ppb	111.656 %	61.427 ppb	62.773 ppb	115.063 %	60.719 ppb
Concentration per Run 2	57.487 ppb	62.272 ppb	61.714 ppb	58.137 ppb	108.888 %	59.935 ppb	61.792 ppb	112.592 %	55.944 ppb
Concentration per Run 3	55.611 ppb	52.943 ppb	57.743 ppb	59.243 ppb	106.458 %	61.044 ppb	61.186 ppb	103.951 %	58.810 ppb
Recovery Percentage 1	94.319 %	98.754 %	102.107 %	95.787 %		101.336 %	103.195 %		97.485 %
Concentration RSD	1.7 %	9.2 %	5.4 %	3.8 %	2.4 %	1.3 %	1.3 %	5.3 %	4.1 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	62.039 ppb	115.010 %	127.251 %	59.051 ppb	60.301 ppb
Concentration per Run 1	63.355 ppb	116.907 %	131.671 %	57.150 ppb	58.832 ppb
Concentration per Run 2	61.010 ppb	116.584 %	127.989 %	59.228 ppb	60.705 ppb
Concentration per Run 3	61.753 ppb	111.538 %	122.093 %	60.775 ppb	61.366 ppb
Recovery Percentage 1	103.399 %			98.418 %	100.502 %
Concentration RSD	1.9 %	2.6 %	3.8 %	3.1 %	2.2 %

Alpha ICPMSQ Data with SRD

6/26/2024 10:46:24 AM

Analysis index:	57	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	CCB	Rack	0		
Analysis started at:	6/26/2024 8:29:55 AM	Vial	10		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	87.493 %	93.973 %	0.014 ppb	-5.797 ppb	-0.641 ppb	-0.464 ppb	-6.538 ppb	-0.789 ppb	85.001 %
Concentration per Run 1	88.630 %	91.144 %	0.014 ppb	10.844 ppb	-0.349 ppb	-0.351 ppb	2.149 ppb	-14.682 ppb	85.570 %
Concentration per Run 2	87.804 %	89.852 %	0.008 ppb	4.185 ppb	-0.749 ppb	-0.518 ppb	-0.245 ppb	5.646 ppb	85.408 %
Concentration per Run 3	86.046 %	100.923 %	0.022 ppb	-32.418 ppb	-0.825 ppb	-0.523 ppb	-21.517 ppb	6.670 ppb	84.024 %
Recovery Percentage 1			2.858 %	-5.797 %	-0.916 %	-4.642 %	-6.538 %	-0.789 %	
Concentration RSD	1.5 %	6.4 %	48.5 %	401.9 %	39.8 %	21.0 %	199.3 %	1,527.0 %	1.0 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	-0.060 ppb	0.057 ppb	-0.121 ppb	7.170 ppb	0.002 ppb	0.022 ppb	0.003 ppb	-0.002 ppb	98.420 %
Concentration per Run 1	-0.022 ppb	0.036 ppb	-0.130 ppb	6.214 ppb	0.006 ppb	-0.034 ppb	0.027 ppb	0.003 ppb	104.812 %
Concentration per Run 2	-0.052 ppb	0.086 ppb	-0.162 ppb	9.942 ppb	0.010 ppb	0.068 ppb	-0.023 ppb	0.000 ppb	94.704 %
Concentration per Run 3	-0.106 ppb	0.048 ppb	-0.070 ppb	5.355 ppb	-0.010 ppb	0.031 ppb	0.005 ppb	-0.011 ppb	95.745 %
Recovery Percentage 1	-1.205 %	5.688 %	-12.062 %	14.341 %	0.430 %	1.096 %	0.305 %	-0.049 %	
Concentration RSD	70.9 %	45.7 %	38.6 %	34.0 %	502.3 %	235.8 %	830.6 %	299.7 %	5.6 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	-0.527 ppb	0.220 ppb	0.008 ppb	0.754 ppb	108.225 %	0.003 ppb	0.004 ppb	106.299 %	0.108 ppb
Concentration per Run 1	-0.432 ppb	0.354 ppb	-0.012 ppb	0.872 ppb	108.903 %	0.004 ppb	0.005 ppb	113.531 %	0.095 ppb
Concentration per Run 2	-0.488 ppb	0.240 ppb	0.014 ppb	0.830 ppb	108.351 %	0.005 ppb	0.000 ppb	107.083 %	0.094 ppb
Concentration per Run 3	-0.662 ppb	0.067 ppb	0.023 ppb	0.561 ppb	107.421 %	0.002 ppb	0.006 ppb	98.282 %	0.134 ppb
Recovery Percentage 1	-105.481 %	4.409 %	0.083 %	37.718 %		0.844 %	1.801 %		2.689 %
Concentration RSD	22.7 %	65.5 %	223.3 %	22.3 %	0.7 %	47.6 %	86.9 %	7.2 %	21.0 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	0.059 ppb	113.654 %	123.963 %	0.362 ppb	0.025 ppb
Concentration per Run 1	0.000 ppb	114.001 %	130.302 %	0.244 ppb	0.030 ppb
Concentration per Run 2	0.176 ppb	114.806 %	125.361 %	0.419 ppb	0.026 ppb
Concentration per Run 3	0.000 ppb	112.156 %	116.225 %	0.422 ppb	0.020 ppb
Recovery Percentage 1	11.757 %			36.157 %	2.521 %
Concentration RSD	173.2 %	1.2 %	5.8 %	28.1 %	20.4 %

Alpha ICPMSQ Data with SRD

6/26/2024 10:46:24 AM

Analysis index:	58	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	CCV	Rack	0		
Analysis started at:	6/26/2024 8:40:12 AM	Vial	9		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	90.757 %	91.943 %	58.941 ppb	5,516.765 ppb	5,634.875 ppb	51.722 ppb	5,438.586 ppb	6,215.420 ppb	95.085 %
Concentration per Run 1	92.696 %	93.911 %	58.565 ppb	5,193.135 ppb	5,240.904 ppb	49.650 ppb	4,962.100 ppb	5,909.742 ppb	95.545 %
Concentration per Run 2	90.506 %	86.900 %	59.257 ppb	5,890.781 ppb	6,027.124 ppb	54.548 ppb	5,869.057 ppb	6,399.907 ppb	94.422 %
Concentration per Run 3	89.070 %	95.018 %	59.002 ppb	5,466.379 ppb	5,636.596 ppb	50.968 ppb	5,484.600 ppb	6,336.610 ppb	95.287 %
Recovery Percentage 1			98.235 %	91.946 %	93.915 %	86.203 %	90.643 %	103.590 %	
Concentration RSD	2.0 %	4.8 %	0.6 %	6.4 %	7.0 %	4.9 %	8.4 %	4.3 %	0.6 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	65.469 ppb	73.110 ppb	59.991 ppb	5,657.481 ppb	58.404 ppb	55.391 ppb	60.649 ppb	59.471 ppb	97.590 %
Concentration per Run 1	62.777 ppb	73.526 ppb	58.319 ppb	5,517.115 ppb	57.511 ppb	54.650 ppb	62.256 ppb	58.878 ppb	93.883 %
Concentration per Run 2	67.269 ppb	72.538 ppb	59.947 ppb	5,794.989 ppb	59.041 ppb	56.437 ppb	59.908 ppb	58.547 ppb	100.529 %
Concentration per Run 3	66.361 ppb	73.267 ppb	61.707 ppb	5,660.340 ppb	58.660 ppb	55.088 ppb	59.785 ppb	60.988 ppb	98.358 %
Recovery Percentage 1	109.115 %	121.851 %	99.985 %	94.291 %	97.340 %	92.319 %	101.082 %	99.118 %	
Concentration RSD	3.6 %	0.7 %	2.8 %	2.5 %	1.4 %	1.7 %	2.3 %	2.2 %	3.5 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	56.883 ppb	60.035 ppb	60.056 ppb	57.276 ppb	106.643 %	61.116 ppb	62.279 ppb	107.622 %	54.387 ppb
Concentration per Run 1	56.887 ppb	57.007 ppb	58.530 ppb	55.493 ppb	101.990 %	61.997 ppb	63.126 ppb	103.612 %	53.539 ppb
Concentration per Run 2	57.168 ppb	60.624 ppb	61.189 ppb	57.775 ppb	107.515 %	61.302 ppb	63.373 ppb	107.271 %	55.069 ppb
Concentration per Run 3	56.593 ppb	62.476 ppb	60.449 ppb	58.560 ppb	110.425 %	60.048 ppb	60.339 ppb	111.984 %	54.552 ppb
Recovery Percentage 1	94.805 %	100.059 %	100.094 %	95.460 %		101.860 %	103.799 %		90.645 %
Concentration RSD	0.5 %	4.6 %	2.3 %	2.8 %	4.0 %	1.6 %	2.7 %	3.9 %	1.4 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	63.340 ppb	115.540 %	124.607 %	61.353 ppb	61.001 ppb
Concentration per Run 1	60.245 ppb	110.932 %	117.578 %	62.444 ppb	62.088 ppb
Concentration per Run 2	64.748 ppb	118.048 %	124.254 %	62.439 ppb	62.586 ppb
Concentration per Run 3	65.026 ppb	117.640 %	131.988 %	59.174 ppb	58.330 ppb
Recovery Percentage 1	105.566 %			102.255 %	101.669 %
Concentration RSD	4.2 %	3.5 %	5.8 %	3.1 %	3.8 %

Alpha ICPMSQ Data with SRD

6/26/2024 10:46:24 AM

Analysis index:	59	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	CCB	Rack	0		
Analysis started at:	6/26/2024 8:44:55 AM	Vial	10		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	87.241 %	89.914 %	0.014 ppb	-19.626 ppb	-0.330 ppb	0.070 ppb	-16.812 ppb	-5.365 ppb	85.348 %
Concentration per Run 1	89.593 %	85.793 %	0.007 ppb	-11.447 ppb	-0.732 ppb	-0.139 ppb	1.100 ppb	5.229 ppb	85.581 %
Concentration per Run 2	87.516 %	89.483 %	0.015 ppb	-25.564 ppb	-0.320 ppb	0.265 ppb	-22.061 ppb	-10.286 ppb	86.095 %
Concentration per Run 3	84.614 %	94.465 %	0.020 ppb	-21.867 ppb	0.063 ppb	0.083 ppb	-29.474 ppb	-11.038 ppb	84.369 %
Recovery Percentage 1			2.801 %	-19.626 %	-0.471 %	0.699 %	-16.812 %	-5.365 %	
Concentration RSD	2.9 %	4.8 %	43.8 %	37.3 %	120.5 %	289.2 %	94.9 %	171.2 %	1.0 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	-0.060 ppb	-0.012 ppb	0.177 ppb	11.503 ppb	-0.002 ppb	-0.033 ppb	-0.011 ppb	0.000 ppb	100.384 %
Concentration per Run 1	-0.035 ppb	0.039 ppb	0.036 ppb	14.698 ppb	-0.004 ppb	0.031 ppb	-0.018 ppb	0.019 ppb	99.636 %
Concentration per Run 2	-0.072 ppb	-0.058 ppb	0.299 ppb	9.924 ppb	0.004 ppb	-0.038 ppb	-0.012 ppb	-0.049 ppb	101.404 %
Concentration per Run 3	-0.072 ppb	-0.017 ppb	0.197 ppb	9.888 ppb	-0.005 ppb	-0.093 ppb	-0.004 ppb	0.030 ppb	100.110 %
Recovery Percentage 1	-1.195 %	-1.228 %	17.706 %	23.006 %	-0.340 %	-1.653 %	-1.123 %	0.000 %	
Concentration RSD	35.4 %	395.2 %	74.9 %	24.0 %	280.6 %	188.4 %	59.4 %	192,066.3 %	0.9 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	-0.770 ppb	0.244 ppb	0.001 ppb	1.002 ppb	107.499 %	0.006 ppb	0.002 ppb	109.525 %	0.986 ppb
Concentration per Run 1	-0.487 ppb	0.355 ppb	0.007 ppb	1.114 ppb	104.693 %	0.012 ppb	0.000 ppb	106.863 %	1.039 ppb
Concentration per Run 2	-0.909 ppb	0.463 ppb	-0.026 ppb	0.955 ppb	109.352 %	0.001 ppb	0.000 ppb	108.135 %	1.061 ppb
Concentration per Run 3	-0.915 ppb	-0.088 ppb	0.022 ppb	0.935 ppb	108.451 %	0.004 ppb	0.005 ppb	113.576 %	0.857 ppb
Recovery Percentage 1	-154.084 %	4.872 %	0.011 %	50.077 %		1.427 %	0.856 %		24.639 %
Concentration RSD	31.8 %	119.8 %	2,180.8 %	9.8 %	2.3 %	99.8 %	173.2 %	3.3 %	11.4 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	0.029 ppb	113.437 %	124.175 %	0.281 ppb	0.027 ppb
Concentration per Run 1	0.045 ppb	110.295 %	121.249 %	0.192 ppb	0.029 ppb
Concentration per Run 2	0.000 ppb	114.864 %	126.311 %	0.331 ppb	0.026 ppb
Concentration per Run 3	0.043 ppb	115.153 %	124.965 %	0.321 ppb	0.025 ppb
Recovery Percentage 1	5.855 %			28.119 %	2.664 %
Concentration RSD	86.7 %	2.4 %	2.1 %	27.4 %	8.2 %

Alpha ICPMSQ Data with SRD

6/26/2024 10:46:24 AM

Analysis index:	60	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	WG1939089-2d10 A2-6020T	Rack	1		
Analysis started at:	6/26/2024 8:51:12 AM	Vial	27		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	87.799 %	91.943 %	8.983 ppb	1,717.681 ppb	1,702.832 ppb	327.304 ppb	1,655.780 ppb	1,683.427 ppb	90.648 %
Concentration per Run 1	89.081 %	92.435 %	8.998 ppb	1,702.486 ppb	1,674.698 ppb	316.938 ppb	1,638.294 ppb	1,706.143 ppb	91.640 %
Concentration per Run 2	88.444 %	91.513 %	9.119 ppb	1,706.701 ppb	1,669.564 ppb	333.986 ppb	1,686.027 ppb	1,730.415 ppb	90.368 %
Concentration per Run 3	85.873 %	91.882 %	8.831 ppb	1,743.856 ppb	1,764.233 ppb	330.987 ppb	1,643.020 ppb	1,613.722 ppb	89.938 %
Concentration RSD	1.9 %	0.5 %	1.6 %	1.3 %	3.1 %	2.8 %	1.6 %	3.7 %	1.0 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	100.308 ppb	45.232 ppb	91.657 ppb	192.445 ppb	88.771 ppb	84.454 ppb	45.215 ppb	88.148 ppb	98.793 %
Concentration per Run 1	97.977 ppb	44.736 ppb	89.059 ppb	182.603 ppb	87.672 ppb	85.801 ppb	45.866 ppb	88.305 ppb	99.126 %
Concentration per Run 2	104.178 ppb	46.962 ppb	97.112 ppb	214.263 ppb	92.254 ppb	84.363 ppb	46.002 ppb	88.857 ppb	97.102 %
Concentration per Run 3	98.770 ppb	43.998 ppb	88.800 ppb	180.470 ppb	86.385 ppb	83.200 ppb	43.776 ppb	87.283 ppb	100.151 %
Concentration RSD	3.4 %	3.4 %	5.2 %	9.8 %	3.5 %	1.5 %	2.8 %	0.9 %	1.6 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	20.097 ppb	19.828 ppb	179.754 ppb	182.979 ppb	109.100 %	9.518 ppb	9.810 ppb	109.794 %	78.092 ppb
Concentration per Run 1	19.977 ppb	19.702 ppb	178.776 ppb	180.469 ppb	106.988 %	9.627 ppb	9.620 ppb	109.356 %	74.756 ppb
Concentration per Run 2	20.138 ppb	19.561 ppb	182.484 ppb	184.929 ppb	108.555 %	9.617 ppb	9.825 ppb	112.448 %	75.561 ppb
Concentration per Run 3	20.176 ppb	20.222 ppb	178.002 ppb	183.540 ppb	111.758 %	9.309 ppb	9.985 ppb	107.578 %	83.959 ppb
Concentration RSD	0.5 %	1.8 %	1.3 %	1.2 %	2.2 %	1.9 %	1.9 %	2.2 %	6.5 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	407.770 ppb	117.608 %	127.829 %	22.831 ppb	99.907 ppb
Concentration per Run 1	404.174 ppb	117.625 %	126.339 %	22.808 ppb	100.175 ppb
Concentration per Run 2	399.658 ppb	116.359 %	127.069 %	23.456 ppb	102.454 ppb
Concentration per Run 3	419.477 ppb	118.840 %	130.078 %	22.229 ppb	97.093 ppb
Concentration RSD	2.5 %	1.1 %	1.6 %	2.7 %	2.7 %

Alpha ICPMSQ Data with SRD

6/26/2024 10:46:24 AM

Analysis index:	61	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	I2429901-01d2 A2-6020T	Rack	1		
Analysis started at:	6/26/2024 9:00:23 AM	Vial	28		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	89.487 %	92.989 %	0.013 ppb	2,251.052 ppb	2,104.876 ppb	3.413 ppb	28,321.791 ppb	792.664 ppb	99.115 %
Concentration per Run 1	90.987 %	90.959 %	0.018 ppb	2,291.139 ppb	2,212.841 ppb	2.156 ppb	29,463.817 ppb	833.567 ppb	99.697 %
Concentration per Run 2	90.523 %	95.387 %	0.006 ppb	2,214.759 ppb	2,071.670 ppb	3.873 ppb	27,884.237 ppb	710.575 ppb	98.623 %
Concentration per Run 3	86.950 %	92.620 %	0.015 ppb	2,247.257 ppb	2,030.118 ppb	4.210 ppb	27,617.318 ppb	833.848 ppb	99.025 %
Concentration RSD	2.5 %	2.4 %	49.2 %	1.7 %	4.6 %	32.3 %	3.5 %	9.0 %	0.5 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.194 ppb	2.617 ppb	19.416 ppb	68.663 ppb	0.075 ppb	1.243 ppb	1.494 ppb	33.773 ppb	99.973 %
Concentration per Run 1	0.199 ppb	2.755 ppb	16.053 ppb	77.053 ppb	0.054 ppb	1.267 ppb	1.287 ppb	34.089 ppb	95.300 %
Concentration per Run 2	0.221 ppb	2.383 ppb	20.270 ppb	66.231 ppb	0.060 ppb	1.262 ppb	1.601 ppb	34.519 ppb	99.261 %
Concentration per Run 3	0.161 ppb	2.715 ppb	21.923 ppb	62.704 ppb	0.113 ppb	1.201 ppb	1.596 ppb	32.712 ppb	105.359 %
Concentration RSD	15.7 %	7.8 %	15.6 %	10.9 %	43.2 %	3.0 %	12.0 %	2.8 %	5.1 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	-0.601 ppb	1.836 ppb	0.262 ppb	2.448 ppb	109.593 %	0.059 ppb	0.009 ppb	109.913 %	7.131 ppb
Concentration per Run 1	-0.550 ppb	2.526 ppb	0.274 ppb	3.659 ppb	107.894 %	0.067 ppb	0.000 ppb	111.127 %	8.194 ppb
Concentration per Run 2	-0.570 ppb	1.599 ppb	0.238 ppb	1.965 ppb	109.235 %	0.051 ppb	0.010 ppb	111.184 %	7.150 ppb
Concentration per Run 3	-0.682 ppb	1.383 ppb	0.274 ppb	1.721 ppb	111.651 %	0.060 ppb	0.016 ppb	107.429 %	6.049 ppb
Concentration RSD	11.8 %	33.1 %	8.0 %	43.1 %	1.7 %	13.8 %	92.0 %	2.0 %	15.0 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	0.113 ppb	120.358 %	129.566 %	0.152 ppb	0.050 ppb
Concentration per Run 1	0.129 ppb	117.087 %	126.079 %	0.134 ppb	0.062 ppb
Concentration per Run 2	0.042 ppb	120.716 %	130.505 %	0.172 ppb	0.048 ppb
Concentration per Run 3	0.170 ppb	123.270 %	132.114 %	0.151 ppb	0.038 ppb
Concentration RSD	57.3 %	2.6 %	2.4 %	12.4 %	24.8 %

Alpha ICPMSQ Data with SRD

6/26/2024 10:46:24 AM

Analysis index:	62	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	WG1939089-3d10 A2-6020T	Rack	1		
Analysis started at:	6/26/2024 9:05:01 AM	Vial	29		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	88.703 %	93.911 %	8.490 ppb	2,038.602 ppb	2,024.469 ppb	306.442 ppb	7,149.494 ppb	1,765.852 ppb	86.088 %
Concentration per Run 1	89.502 %	99.262 %	8.467 ppb	2,023.392 ppb	2,033.210 ppb	301.135 ppb	7,163.227 ppb	1,788.737 ppb	86.049 %
Concentration per Run 2	89.427 %	95.387 %	8.322 ppb	2,016.766 ppb	2,001.139 ppb	298.431 ppb	7,444.363 ppb	1,917.652 ppb	86.557 %
Concentration per Run 3	87.181 %	87.085 %	8.680 ppb	2,075.647 ppb	2,039.058 ppb	319.761 ppb	6,840.893 ppb	1,591.168 ppb	85.658 %
Concentration RSD	1.5 %	6.6 %	2.1 %	1.6 %	1.0 %	3.8 %	4.2 %	9.3 %	0.5 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	94.611 ppb	41.373 ppb	87.361 ppb	182.926 ppb	85.218 ppb	80.596 ppb	44.802 ppb	89.638 ppb	99.336 %
Concentration per Run 1	95.832 ppb	42.338 ppb	92.468 ppb	195.479 ppb	88.039 ppb	83.516 ppb	47.178 ppb	94.261 ppb	94.613 %
Concentration per Run 2	92.587 ppb	40.188 ppb	85.687 ppb	181.684 ppb	83.917 ppb	79.236 ppb	43.738 ppb	88.523 ppb	103.231 %
Concentration per Run 3	95.415 ppb	41.591 ppb	83.928 ppb	171.617 ppb	83.700 ppb	79.036 ppb	43.490 ppb	86.129 ppb	100.164 %
Concentration RSD	1.9 %	2.6 %	5.2 %	6.5 %	2.9 %	3.1 %	4.6 %	4.7 %	4.4 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	18.587 ppb	19.358 ppb	166.206 ppb	176.423 ppb	109.578 %	8.732 ppb	9.099 ppb	110.670 %	79.524 ppb
Concentration per Run 1	19.581 ppb	20.874 ppb	171.396 ppb	180.476 ppb	109.107 %	8.850 ppb	9.065 ppb	112.465 %	75.378 ppb
Concentration per Run 2	17.911 ppb	17.125 ppb	166.827 ppb	173.076 ppb	112.250 %	8.490 ppb	9.049 ppb	116.990 %	79.930 ppb
Concentration per Run 3	18.269 ppb	20.075 ppb	160.395 ppb	175.719 ppb	107.377 %	8.854 ppb	9.182 ppb	102.557 %	83.264 ppb
Concentration RSD	4.7 %	10.2 %	3.3 %	2.1 %	2.3 %	2.4 %	0.8 %	6.7 %	5.0 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	376.640 ppb	114.928 %	125.550 %	21.600 ppb	95.041 ppb
Concentration per Run 1	372.286 ppb	115.913 %	125.042 %	21.594 ppb	95.517 ppb
Concentration per Run 2	365.587 ppb	117.154 %	128.436 %	21.162 ppb	94.045 ppb
Concentration per Run 3	392.045 ppb	111.718 %	123.172 %	22.044 ppb	95.562 ppb
Concentration RSD	3.7 %	2.5 %	2.1 %	2.0 %	0.9 %

Alpha ICPMSQ Data with SRD

6/26/2024 10:46:24 AM

Analysis index:	63	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	WG1939089-4d10 A2-6020T	Rack	1		
Analysis started at:	6/26/2024 9:09:39 AM	Vial	30		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	87.290 %	98.401 %	0.021 ppb	2,380.272 ppb	2,262.939 ppb	3.998 ppb	30,970.111 ppb	878.487 ppb	94.378 %
Concentration per Run 1	88.569 %	97.786 %	0.030 ppb	2,516.733 ppb	2,383.433 ppb	4.350 ppb	33,469.960 ppb	896.692 ppb	94.193 %
Concentration per Run 2	87.527 %	104.428 %	0.016 ppb	2,201.772 ppb	2,054.654 ppb	3.339 ppb	29,502.232 ppb	878.610 ppb	95.344 %
Concentration per Run 3	85.773 %	92.989 %	0.017 ppb	2,422.310 ppb	2,350.732 ppb	4.304 ppb	29,938.141 ppb	860.160 ppb	93.598 %
Concentration RSD	1.6 %	5.8 %	37.8 %	6.8 %	8.0 %	14.3 %	7.0 %	2.1 %	0.9 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.442 ppb	1.398 ppb	10.753 ppb	44.656 ppb	0.080 ppb	0.611 ppb	1.517 ppb	36.098 ppb	96.533 %
Concentration per Run 1	0.325 ppb	1.393 ppb	8.217 ppb	40.450 ppb	0.085 ppb	0.724 ppb	1.586 ppb	37.045 ppb	97.929 %
Concentration per Run 2	0.316 ppb	1.288 ppb	10.824 ppb	47.630 ppb	0.081 ppb	0.568 ppb	1.557 ppb	36.187 ppb	97.447 %
Concentration per Run 3	0.685 ppb	1.514 ppb	13.217 ppb	45.887 ppb	0.075 ppb	0.540 ppb	1.408 ppb	35.062 ppb	94.222 %
Concentration RSD	47.6 %	8.1 %	23.3 %	8.4 %	6.7 %	16.2 %	6.3 %	2.8 %	2.1 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	-0.549 ppb	1.357 ppb	0.346 ppb	1.566 ppb	109.318 %	0.013 ppb	0.010 ppb	110.230 %	5.308 ppb
Concentration per Run 1	-0.599 ppb	0.904 ppb	0.329 ppb	2.208 ppb	107.995 %	0.001 ppb	0.015 ppb	116.292 %	6.621 ppb
Concentration per Run 2	-0.571 ppb	1.914 ppb	0.365 ppb	1.431 ppb	110.170 %	0.014 ppb	0.010 ppb	111.306 %	5.081 ppb
Concentration per Run 3	-0.477 ppb	1.252 ppb	0.343 ppb	1.060 ppb	109.790 %	0.024 ppb	0.005 ppb	103.090 %	4.223 ppb
Concentration RSD	11.6 %	37.8 %	5.2 %	37.4 %	1.1 %	88.4 %	47.1 %	6.0 %	22.9 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	0.721 ppb	116.322 %	125.258 %	0.131 ppb	0.101 ppb
Concentration per Run 1	0.717 ppb	115.522 %	128.820 %	0.109 ppb	0.086 ppb
Concentration per Run 2	0.637 ppb	119.144 %	124.049 %	0.151 ppb	0.119 ppb
Concentration per Run 3	0.810 ppb	114.300 %	122.904 %	0.133 ppb	0.098 ppb
Concentration RSD	12.0 %	2.2 %	2.5 %	16.1 %	16.3 %

Alpha ICPMSQ Data with SRD

6/26/2024 10:46:24 AM

Analysis index:	64	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	WG1939089-5d10 A2-6020T	Rack	1		
Analysis started at:	6/26/2024 9:14:18 AM	Vial	31		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	85.838 %	96.740 %	47.418 ppb	5,018.496 ppb	5,034.012 ppb	43.541 ppb	10,039.372 ppb	5,216.879 ppb	86.804 %
Concentration per Run 1	87.884 %	94.465 %	47.050 ppb	5,166.967 ppb	5,221.761 ppb	41.945 ppb	10,336.374 ppb	5,232.087 ppb	87.536 %
Concentration per Run 2	86.609 %	97.232 %	47.363 ppb	4,918.316 ppb	4,947.451 ppb	44.698 ppb	9,775.518 ppb	5,288.811 ppb	87.453 %
Concentration per Run 3	83.022 %	98.524 %	47.843 ppb	4,970.204 ppb	4,932.823 ppb	43.979 ppb	10,006.225 ppb	5,129.738 ppb	85.423 %
Concentration RSD	2.9 %	2.1 %	0.8 %	2.6 %	3.2 %	3.3 %	2.8 %	1.5 %	1.4 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	53.128 ppb	58.254 ppb	51.564 ppb	4,622.780 ppb	48.514 ppb	46.983 ppb	49.765 ppb	54.667 ppb	102.460 %
Concentration per Run 1	52.067 ppb	59.801 ppb	51.242 ppb	4,651.990 ppb	48.428 ppb	47.234 ppb	48.852 ppb	55.111 ppb	102.250 %
Concentration per Run 2	52.796 ppb	56.971 ppb	52.232 ppb	4,604.163 ppb	48.809 ppb	47.485 ppb	50.783 ppb	54.470 ppb	101.514 %
Concentration per Run 3	54.519 ppb	57.991 ppb	51.218 ppb	4,612.185 ppb	48.306 ppb	46.230 ppb	49.660 ppb	54.421 ppb	103.617 %
Concentration RSD	2.4 %	2.5 %	1.1 %	0.6 %	0.5 %	1.4 %	1.9 %	0.7 %	1.0 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	44.756 ppb	45.786 ppb	47.746 ppb	51.034 ppb	113.290 %	1.460 ppb	49.918 ppb	113.975 %	49.166 ppb
Concentration per Run 1	44.330 ppb	46.976 ppb	47.464 ppb	50.484 ppb	111.917 %	1.419 ppb	49.035 ppb	115.952 %	47.629 ppb
Concentration per Run 2	45.204 ppb	43.362 ppb	47.943 ppb	51.642 ppb	114.204 %	1.490 ppb	48.791 ppb	113.917 %	48.508 ppb
Concentration per Run 3	44.733 ppb	47.021 ppb	47.832 ppb	50.977 ppb	113.748 %	1.471 ppb	51.928 ppb	112.057 %	51.360 ppb
Concentration RSD	1.0 %	4.6 %	0.5 %	1.1 %	1.1 %	2.5 %	3.5 %	1.7 %	4.0 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	53.156 ppb	119.531 %	127.530 %	50.983 ppb	51.251 ppb
Concentration per Run 1	52.080 ppb	117.006 %	124.607 %	51.246 ppb	51.878 ppb
Concentration per Run 2	54.028 ppb	122.235 %	129.303 %	50.423 ppb	50.477 ppb
Concentration per Run 3	53.359 ppb	119.354 %	128.681 %	51.281 ppb	51.397 ppb
Concentration RSD	1.9 %	2.2 %	2.0 %	1.0 %	1.4 %

Alpha ICPMSQ Data with SRD

6/26/2024 10:46:24 AM

Analysis index:	65	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	WG1939089-6d10 A2-6020T	Rack	1		
Analysis started at:	6/26/2024 9:18:57 AM	Vial	32		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	86.622 %	93.665 %	0.014 ppb	422.178 ppb	423.929 ppb	0.990 ppb	5,748.267 ppb	143.154 ppb	85.897 %
Concentration per Run 1	88.346 %	95.941 %	0.016 ppb	411.204 ppb	426.413 ppb	0.625 ppb	5,462.333 ppb	170.657 ppb	85.324 %
Concentration per Run 2	87.042 %	90.959 %	0.015 ppb	436.101 ppb	434.251 ppb	1.179 ppb	6,108.315 ppb	120.602 ppb	87.468 %
Concentration per Run 3	84.479 %	94.096 %	0.012 ppb	419.230 ppb	411.122 ppb	1.167 ppb	5,674.154 ppb	138.202 ppb	84.898 %
Concentration RSD	2.3 %	2.7 %	14.0 %	3.0 %	2.8 %	32.0 %	5.7 %	17.7 %	1.6 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	-0.009 ppb	0.520 ppb	2.469 ppb	26.539 ppb	0.018 ppb	0.222 ppb	0.254 ppb	7.259 ppb	101.044 %
Concentration per Run 1	-0.020 ppb	0.609 ppb	1.682 ppb	35.246 ppb	0.026 ppb	0.212 ppb	0.209 ppb	7.073 ppb	99.164 %
Concentration per Run 2	-0.001 ppb	0.504 ppb	2.536 ppb	25.260 ppb	0.018 ppb	0.197 ppb	0.282 ppb	7.449 ppb	99.301 %
Concentration per Run 3	-0.006 ppb	0.447 ppb	3.189 ppb	19.113 ppb	0.009 ppb	0.257 ppb	0.272 ppb	7.254 ppb	104.667 %
Concentration RSD	105.0 %	15.8 %	30.6 %	30.7 %	49.5 %	14.2 %	15.5 %	2.6 %	3.1 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	-0.782 ppb	0.197 ppb	0.073 ppb	0.468 ppb	111.300 %	0.006 ppb	0.002 ppb	113.690 %	0.516 ppb
Concentration per Run 1	-0.632 ppb	0.319 ppb	0.089 ppb	0.665 ppb	111.625 %	0.006 ppb	0.000 ppb	112.259 %	0.425 ppb
Concentration per Run 2	-0.661 ppb	0.084 ppb	0.078 ppb	0.436 ppb	110.646 %	0.010 ppb	0.005 ppb	113.483 %	0.544 ppb
Concentration per Run 3	-1.052 ppb	0.189 ppb	0.053 ppb	0.303 ppb	111.629 %	0.002 ppb	0.000 ppb	115.328 %	0.581 ppb
Concentration RSD	30.0 %	59.4 %	25.2 %	39.2 %	0.5 %	65.6 %	173.2 %	1.4 %	15.8 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	0.028 ppb	118.143 %	129.164 %	0.146 ppb	0.029 ppb
Concentration per Run 1	0.000 ppb	116.668 %	128.998 %	0.104 ppb	0.029 ppb
Concentration per Run 2	0.042 ppb	118.883 %	129.074 %	0.188 ppb	0.031 ppb
Concentration per Run 3	0.042 ppb	118.878 %	129.420 %	0.147 ppb	0.028 ppb
Concentration RSD	86.6 %	1.1 %	0.2 %	28.7 %	4.9 %

Alpha ICPMSQ Data with SRD

6/26/2024 10:46:24 AM

Analysis index:	66	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	I2429901-02d2 A2-6020T	Rack	1		
Analysis started at:	6/26/2024 9:23:36 AM	Vial	33		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	85.997 %	97.970 %	0.018 ppb	1,761.086 ppb	1,949.306 ppb	5.190 ppb	30,327.173 ppb	573.706 ppb	95.477 %
Concentration per Run 1	87.466 %	96.494 %	0.017 ppb	1,835.685 ppb	1,954.754 ppb	4.412 ppb	31,338.662 ppb	559.171 ppb	97.213 %
Concentration per Run 2	86.048 %	98.708 %	0.020 ppb	1,694.080 ppb	1,898.799 ppb	5.154 ppb	29,437.083 ppb	568.605 ppb	94.211 %
Concentration per Run 3	84.477 %	98.708 %	0.016 ppb	1,753.492 ppb	1,994.366 ppb	6.005 ppb	30,205.774 ppb	593.342 ppb	95.008 %
Concentration RSD	1.7 %	1.3 %	12.8 %	4.0 %	2.5 %	15.4 %	3.2 %	3.1 %	1.6 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.098 ppb	1.284 ppb	7.054 ppb	43.564 ppb	0.130 ppb	0.626 ppb	1.043 ppb	30.476 ppb	98.942 %
Concentration per Run 1	0.092 ppb	1.537 ppb	5.636 ppb	44.553 ppb	0.108 ppb	0.781 ppb	1.035 ppb	31.667 ppb	92.254 %
Concentration per Run 2	0.190 ppb	1.107 ppb	6.793 ppb	41.617 ppb	0.139 ppb	0.474 ppb	1.130 ppb	29.478 ppb	104.331 %
Concentration per Run 3	0.012 ppb	1.208 ppb	8.733 ppb	44.523 ppb	0.144 ppb	0.623 ppb	0.962 ppb	30.283 ppb	100.242 %
Concentration RSD	91.1 %	17.5 %	22.2 %	3.9 %	15.0 %	24.5 %	8.1 %	3.6 %	6.2 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	-0.762 ppb	1.517 ppb	0.313 ppb	0.635 ppb	111.214 %	0.011 ppb	0.007 ppb	115.104 %	0.910 ppb
Concentration per Run 1	-0.460 ppb	1.869 ppb	0.338 ppb	0.591 ppb	109.003 %	0.009 ppb	0.000 ppb	112.149 %	0.802 ppb
Concentration per Run 2	-1.105 ppb	1.131 ppb	0.317 ppb	0.760 ppb	111.814 %	0.010 ppb	0.015 ppb	112.734 %	0.976 ppb
Concentration per Run 3	-0.720 ppb	1.551 ppb	0.283 ppb	0.553 ppb	112.825 %	0.013 ppb	0.005 ppb	120.429 %	0.953 ppb
Concentration RSD	42.6 %	24.4 %	8.8 %	17.4 %	1.8 %	17.7 %	116.3 %	4.0 %	10.3 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	0.461 ppb	118.636 %	128.415 %	0.135 ppb	0.131 ppb
Concentration per Run 1	0.553 ppb	117.862 %	128.540 %	0.104 ppb	0.131 ppb
Concentration per Run 2	0.422 ppb	119.169 %	127.305 %	0.155 ppb	0.132 ppb
Concentration per Run 3	0.409 ppb	118.876 %	129.400 %	0.145 ppb	0.129 ppb
Concentration RSD	17.3 %	0.6 %	0.8 %	20.2 %	1.3 %

Alpha ICPMSQ Data with SRD

6/26/2024 10:46:24 AM

Analysis index:	67	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	I2429901-03d2 A2-6020T	Rack	1		
Analysis started at:	6/26/2024 9:28:16 AM	Vial	34		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	87.331 %	96.494 %	0.015 ppb	2,831.804 ppb	2,177.940 ppb	7.098 ppb	29,697.192 ppb	5,287.657 ppb	93.763 %
Concentration per Run 1	89.395 %	93.911 %	0.013 ppb	2,915.104 ppb	2,168.370 ppb	6.605 ppb	29,440.959 ppb	5,172.731 ppb	93.702 %
Concentration per Run 2	87.512 %	95.756 %	0.006 ppb	2,743.663 ppb	2,112.668 ppb	7.748 ppb	29,938.669 ppb	5,300.711 ppb	94.202 %
Concentration per Run 3	85.086 %	99.816 %	0.025 ppb	2,836.645 ppb	2,252.781 ppb	6.940 ppb	29,711.949 ppb	5,389.529 ppb	93.387 %
Concentration RSD	2.5 %	3.1 %	63.5 %	3.0 %	3.2 %	8.3 %	0.8 %	2.1 %	0.4 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.009 ppb	1.129 ppb	10.808 ppb	44.307 ppb	0.044 ppb	1.079 ppb	1.035 ppb	66.061 ppb	101.077 %
Concentration per Run 1	-0.052 ppb	1.191 ppb	9.515 ppb	43.460 ppb	0.055 ppb	1.117 ppb	1.188 ppb	68.473 ppb	92.511 %
Concentration per Run 2	-0.003 ppb	1.107 ppb	11.198 ppb	46.369 ppb	0.020 ppb	1.074 ppb	1.065 ppb	64.605 ppb	99.565 %
Concentration per Run 3	0.082 ppb	1.090 ppb	11.712 ppb	43.091 ppb	0.056 ppb	1.048 ppb	0.853 ppb	65.104 ppb	111.154 %
Concentration RSD	757.0 %	4.8 %	10.6 %	4.1 %	46.0 %	3.2 %	16.4 %	3.2 %	9.3 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	-0.546 ppb	0.796 ppb	2.195 ppb	0.354 ppb	111.659 %	0.004 ppb	0.010 ppb	113.752 %	0.586 ppb
Concentration per Run 1	-0.211 ppb	0.662 ppb	2.157 ppb	0.330 ppb	108.939 %	0.003 ppb	0.000 ppb	107.384 %	0.446 ppb
Concentration per Run 2	-0.745 ppb	1.068 ppb	2.164 ppb	0.382 ppb	109.048 %	0.009 ppb	0.026 ppb	108.866 %	0.627 ppb
Concentration per Run 3	-0.682 ppb	0.659 ppb	2.265 ppb	0.350 ppb	116.990 %	-0.001 ppb	0.005 ppb	125.005 %	0.685 ppb
Concentration RSD	53.4 %	29.6 %	2.8 %	7.4 %	4.1 %	151.8 %	135.8 %	8.6 %	21.3 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	0.702 ppb	116.414 %	128.791 %	0.081 ppb	0.061 ppb
Concentration per Run 1	0.403 ppb	111.308 %	125.023 %	0.055 ppb	0.060 ppb
Concentration per Run 2	0.875 ppb	114.620 %	123.268 %	0.098 ppb	0.065 ppb
Concentration per Run 3	0.827 ppb	123.313 %	138.081 %	0.089 ppb	0.060 ppb
Concentration RSD	37.1 %	5.3 %	6.3 %	28.4 %	5.0 %

Alpha ICPMSQ Data with SRD

6/26/2024 10:46:24 AM

Analysis index:	68	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	I2429901-04d2 A2-6020T	Rack	1		
Analysis started at:	6/26/2024 9:32:56 AM	Vial	35		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	89.179 %	100.308 %	0.012 ppb	2,358.664 ppb	2,121.153 ppb	3.908 ppb	28,729.698 ppb	2,008.786 ppb	93.766 %
Concentration per Run 1	89.982 %	91.697 %	0.011 ppb	2,469.987 ppb	2,223.327 ppb	3.584 ppb	29,908.217 ppb	2,116.958 ppb	94.358 %
Concentration per Run 2	89.680 %	106.273 %	0.008 ppb	2,276.115 ppb	2,018.337 ppb	4.654 ppb	28,544.325 ppb	1,990.020 ppb	93.152 %
Concentration per Run 3	87.874 %	102.952 %	0.017 ppb	2,329.890 ppb	2,121.794 ppb	3.487 ppb	27,736.552 ppb	1,919.381 ppb	93.787 %
Concentration RSD	1.3 %	7.6 %	37.1 %	4.2 %	4.8 %	16.6 %	3.8 %	5.0 %	0.6 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	-0.009 ppb	0.562 ppb	4.213 ppb	28.364 ppb	0.034 ppb	0.238 ppb	1.234 ppb	40.040 ppb	103.714 %
Concentration per Run 1	-0.054 ppb	0.689 ppb	3.575 ppb	28.847 ppb	0.044 ppb	0.311 ppb	1.346 ppb	40.556 ppb	98.609 %
Concentration per Run 2	0.025 ppb	0.457 ppb	4.120 ppb	25.862 ppb	0.022 ppb	0.258 ppb	1.237 ppb	40.423 ppb	101.461 %
Concentration per Run 3	0.003 ppb	0.540 ppb	4.944 ppb	30.382 ppb	0.038 ppb	0.145 ppb	1.118 ppb	39.141 ppb	111.073 %
Concentration RSD	455.4 %	20.9 %	16.4 %	8.1 %	32.4 %	35.4 %	9.3 %	2.0 %	6.3 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	-0.534 ppb	1.516 ppb	0.985 ppb	0.226 ppb	112.455 %	0.004 ppb	0.017 ppb	114.393 %	0.409 ppb
Concentration per Run 1	-0.450 ppb	1.578 ppb	0.969 ppb	0.288 ppb	111.616 %	0.003 ppb	0.015 ppb	113.319 %	0.396 ppb
Concentration per Run 2	-0.506 ppb	1.541 ppb	1.002 ppb	0.178 ppb	113.145 %	0.006 ppb	0.025 ppb	117.029 %	0.385 ppb
Concentration per Run 3	-0.645 ppb	1.430 ppb	0.983 ppb	0.211 ppb	112.604 %	0.002 ppb	0.010 ppb	112.831 %	0.445 ppb
Concentration RSD	18.9 %	5.1 %	1.7 %	25.0 %	0.7 %	53.7 %	44.3 %	2.0 %	7.8 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	0.226 ppb	117.333 %	129.323 %	0.071 ppb	0.025 ppb
Concentration per Run 1	0.300 ppb	114.566 %	125.406 %	0.053 ppb	0.025 ppb
Concentration per Run 2	0.165 ppb	119.815 %	130.528 %	0.079 ppb	0.027 ppb
Concentration per Run 3	0.212 ppb	117.619 %	132.035 %	0.081 ppb	0.024 ppb
Concentration RSD	30.4 %	2.2 %	2.7 %	22.0 %	5.6 %

Alpha ICPMSQ Data with SRD

6/26/2024 10:46:24 AM

Analysis index:	69	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	I2429901-05d2 A2-6020T	Rack	1		
Analysis started at:	6/26/2024 9:37:36 AM	Vial	36		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	90.572 %	98.831 %	0.014 ppb	2,129.397 ppb	2,171.369 ppb	4.479 ppb	27,554.265 ppb	998.001 ppb	96.519 %
Concentration per Run 1	92.025 %	92.251 %	0.014 ppb	2,232.504 ppb	2,209.590 ppb	3.433 ppb	28,735.126 ppb	912.271 ppb	96.408 %
Concentration per Run 2	91.158 %	103.690 %	0.016 ppb	2,090.284 ppb	2,141.749 ppb	3.676 ppb	27,178.504 ppb	1,094.992 ppb	96.930 %
Concentration per Run 3	88.532 %	100.554 %	0.011 ppb	2,065.403 ppb	2,162.767 ppb	6.329 ppb	26,749.166 ppb	986.740 ppb	96.220 %
Concentration RSD	2.0 %	6.0 %	18.9 %	4.2 %	1.6 %	35.9 %	3.8 %	9.2 %	0.4 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	-0.011 ppb	0.493 ppb	3.815 ppb	28.893 ppb	0.035 ppb	0.127 ppb	1.179 ppb	38.878 ppb	106.893 %
Concentration per Run 1	-0.072 ppb	0.550 ppb	2.722 ppb	29.552 ppb	0.049 ppb	0.057 ppb	1.378 ppb	41.143 ppb	99.405 %
Concentration per Run 2	-0.001 ppb	0.481 ppb	3.930 ppb	28.572 ppb	0.019 ppb	0.179 ppb	1.055 ppb	36.112 ppb	116.592 %
Concentration per Run 3	0.041 ppb	0.448 ppb	4.792 ppb	28.554 ppb	0.038 ppb	0.147 ppb	1.104 ppb	39.380 ppb	104.682 %
Concentration RSD	529.8 %	10.5 %	27.3 %	2.0 %	43.1 %	49.9 %	14.8 %	6.6 %	8.2 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.291 ppb	1.758 ppb	0.343 ppb	0.153 ppb	112.344 %	0.007 ppb	0.003 ppb	113.541 %	0.363 ppb
Concentration per Run 1	0.335 ppb	2.156 ppb	0.342 ppb	0.135 ppb	110.120 %	0.005 ppb	0.000 ppb	110.487 %	0.301 ppb
Concentration per Run 2	0.236 ppb	1.575 ppb	0.330 ppb	0.193 ppb	116.462 %	0.007 ppb	0.000 ppb	118.289 %	0.363 ppb
Concentration per Run 3	0.301 ppb	1.542 ppb	0.358 ppb	0.132 ppb	110.450 %	0.008 ppb	0.010 ppb	111.845 %	0.424 ppb
Concentration RSD	17.2 %	19.6 %	4.1 %	22.6 %	3.2 %	26.1 %	173.2 %	3.7 %	16.8 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	0.226 ppb	114.963 %	126.561 %	0.062 ppb	0.033 ppb
Concentration per Run 1	0.176 ppb	111.228 %	122.253 %	0.044 ppb	0.033 ppb
Concentration per Run 2	0.370 ppb	119.377 %	130.299 %	0.067 ppb	0.027 ppb
Concentration per Run 3	0.130 ppb	114.284 %	127.131 %	0.075 ppb	0.038 ppb
Concentration RSD	56.6 %	3.6 %	3.2 %	26.5 %	15.5 %

Alpha ICPMSQ Data with SRD

6/26/2024 10:46:24 AM

Analysis index:	70	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	CCV	Rack	0		
Analysis started at:	6/26/2024 9:42:16 AM	Vial	9		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	87.607 %	95.510 %	60.386 ppb	5,897.782 ppb	6,028.352 ppb	56.129 ppb	5,661.191 ppb	6,133.978 ppb	90.114 %
Concentration per Run 1	88.774 %	95.572 %	60.298 ppb	5,826.820 ppb	6,003.480 ppb	56.740 ppb	5,829.656 ppb	6,198.030 ppb	89.787 %
Concentration per Run 2	87.993 %	95.572 %	60.058 ppb	6,065.277 ppb	6,132.035 ppb	58.274 ppb	5,982.688 ppb	6,581.787 ppb	91.185 %
Concentration per Run 3	86.054 %	95.387 %	60.801 ppb	5,801.248 ppb	5,949.540 ppb	53.373 ppb	5,171.228 ppb	5,622.116 ppb	89.371 %
Recovery Percentage 1			100.643 %	98.296 %	100.473 %	93.548 %	94.353 %	102.233 %	
Concentration RSD	1.6 %	0.1 %	0.6 %	2.5 %	1.6 %	4.5 %	7.6 %	7.9 %	1.1 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	65.386 ppb	69.208 ppb	60.495 ppb	5,594.119 ppb	58.335 ppb	56.700 ppb	59.652 ppb	59.819 ppb	106.210 %
Concentration per Run 1	65.045 ppb	67.785 ppb	62.853 ppb	5,684.476 ppb	60.055 ppb	57.877 ppb	60.206 ppb	60.141 ppb	103.437 %
Concentration per Run 2	65.523 ppb	70.395 ppb	58.723 ppb	5,552.766 ppb	56.516 ppb	54.081 ppb	57.645 ppb	59.684 ppb	111.602 %
Concentration per Run 3	65.590 ppb	69.445 ppb	59.910 ppb	5,545.115 ppb	58.434 ppb	58.142 ppb	61.104 ppb	59.633 ppb	103.591 %
Recovery Percentage 1	108.977 %	115.347 %	100.826 %	93.235 %	97.225 %	94.500 %	99.420 %	99.699 %	
Concentration RSD	0.5 %	1.9 %	3.5 %	1.4 %	3.0 %	4.0 %	3.0 %	0.5 %	4.4 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	56.256 ppb	56.577 ppb	59.800 ppb	56.704 ppb	113.241 %	60.145 ppb	60.258 ppb	114.963 %	54.598 ppb
Concentration per Run 1	56.658 ppb	56.483 ppb	58.023 ppb	55.488 ppb	110.927 %	60.804 ppb	60.911 ppb	109.085 %	54.789 ppb
Concentration per Run 2	57.004 ppb	57.533 ppb	62.095 ppb	56.503 ppb	117.559 %	59.267 ppb	60.563 ppb	119.870 %	54.687 ppb
Concentration per Run 3	55.106 ppb	55.714 ppb	59.282 ppb	58.123 ppb	111.238 %	60.365 ppb	59.300 ppb	115.934 %	54.319 ppb
Recovery Percentage 1	93.760 %	94.294 %	99.667 %	94.507 %		100.242 %	100.430 %		90.997 %
Concentration RSD	1.8 %	1.6 %	3.5 %	2.3 %	3.3 %	1.3 %	1.4 %	4.7 %	0.5 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	65.859 ppb	116.789 %	126.250 %	60.886 ppb	60.073 ppb
Concentration per Run 1	64.300 ppb	111.562 %	120.650 %	61.462 ppb	60.212 ppb
Concentration per Run 2	67.198 ppb	123.301 %	136.324 %	58.074 ppb	57.360 ppb
Concentration per Run 3	66.079 ppb	115.505 %	121.776 %	63.123 ppb	62.648 ppb
Recovery Percentage 1	109.765 %			101.477 %	100.122 %
Concentration RSD	2.2 %	5.1 %	6.9 %	4.2 %	4.4 %

Alpha ICPMSQ Data with SRD

6/26/2024 10:46:24 AM

Analysis index:	71	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	CCB	Rack	0		
Analysis started at:	6/26/2024 9:46:59 AM	Vial	10		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	86.075 %	97.355 %	0.013 ppb	-37.477 ppb	-0.257 ppb	-0.548 ppb	-23.991 ppb	-2.078 ppb	83.353 %
Concentration per Run 1	87.365 %	97.417 %	0.020 ppb	-34.226 ppb	0.021 ppb	-0.730 ppb	-19.824 ppb	23.831 ppb	83.695 %
Concentration per Run 2	86.303 %	94.465 %	0.008 ppb	-32.221 ppb	-0.375 ppb	-0.490 ppb	-20.824 ppb	-4.499 ppb	82.127 %
Concentration per Run 3	84.558 %	100.184 %	0.010 ppb	-45.983 ppb	-0.417 ppb	-0.423 ppb	-31.325 ppb	-25.564 ppb	84.239 %
Recovery Percentage 1			2.513 %	-37.477 %	-0.367 %	-5.478 %	-23.991 %	-2.078 %	
Concentration RSD	1.6 %	2.9 %	51.1 %	19.8 %	94.0 %	29.5 %	26.6 %	1,193.0 %	1.3 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	-0.039 ppb	0.004 ppb	0.018 ppb	9.812 ppb	0.006 ppb	-0.034 ppb	0.013 ppb	-0.037 ppb	100.979 %
Concentration per Run 1	-0.005 ppb	0.014 ppb	0.043 ppb	13.097 ppb	0.006 ppb	-0.031 ppb	-0.012 ppb	-0.056 ppb	100.913 %
Concentration per Run 2	-0.106 ppb	-0.035 ppb	0.065 ppb	9.017 ppb	0.009 ppb	-0.023 ppb	0.042 ppb	-0.013 ppb	102.858 %
Concentration per Run 3	-0.005 ppb	0.034 ppb	-0.053 ppb	7.322 ppb	0.004 ppb	-0.048 ppb	0.010 ppb	-0.042 ppb	99.167 %
Recovery Percentage 1	-0.773 %	0.421 %	1.843 %	19.624 %	1.268 %	-1.698 %	1.339 %	-0.741 %	
Concentration RSD	151.8 %	847.8 %	339.1 %	30.3 %	41.1 %	36.5 %	204.5 %	58.6 %	1.8 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	-0.593 ppb	0.259 ppb	0.010 ppb	1.012 ppb	111.853 %	0.006 ppb	0.002 ppb	113.481 %	0.978 ppb
Concentration per Run 1	-0.759 ppb	0.354 ppb	-0.011 ppb	1.248 ppb	109.611 %	0.008 ppb	0.000 ppb	115.031 %	1.003 ppb
Concentration per Run 2	-0.344 ppb	0.210 ppb	0.028 ppb	0.994 ppb	113.111 %	0.010 ppb	0.005 ppb	115.227 %	0.987 ppb
Concentration per Run 3	-0.677 ppb	0.213 ppb	0.012 ppb	0.794 ppb	112.838 %	0.000 ppb	0.000 ppb	110.184 %	0.945 ppb
Recovery Percentage 1	-118.685 %	5.184 %	0.098 %	50.601 %		1.483 %	0.836 %		24.455 %
Concentration RSD	37.1 %	31.8 %	199.1 %	22.5 %	1.7 %	86.5 %	173.2 %	2.5 %	3.1 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	0.071 ppb	116.268 %	128.698 %	0.133 ppb	0.028 ppb
Concentration per Run 1	0.085 ppb	116.173 %	130.001 %	0.100 ppb	0.031 ppb
Concentration per Run 2	0.127 ppb	116.011 %	129.654 %	0.156 ppb	0.026 ppb
Concentration per Run 3	0.000 ppb	116.621 %	126.438 %	0.142 ppb	0.026 ppb
Recovery Percentage 1	14.103 %			13.257 %	2.769 %
Concentration RSD	91.6 %	0.3 %	1.5 %	21.7 %	10.8 %

Alpha ICPMSQ Data with SRD

6/26/2024 10:46:24 AM

Analysis index:	72	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	I2429901-06d2 A2-6020T	Rack	1		
Analysis started at:	6/26/2024 9:52:27 AM	Vial	37		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	87.408 %	96.187 %	0.020 ppb	3,430.368 ppb	2,772.025 ppb	9.357 ppb	33,527.654 ppb	863.581 ppb	97.687 %
Concentration per Run 1	88.964 %	96.310 %	0.024 ppb	3,423.317 ppb	2,807.589 ppb	10.870 ppb	34,369.029 ppb	875.410 ppb	98.759 %
Concentration per Run 2	88.356 %	92.435 %	0.019 ppb	3,575.036 ppb	2,872.042 ppb	7.609 ppb	33,161.650 ppb	738.482 ppb	98.760 %
Concentration per Run 3	84.903 %	99.816 %	0.018 ppb	3,292.751 ppb	2,636.446 ppb	9.593 ppb	33,052.282 ppb	976.851 ppb	95.540 %
Concentration RSD	2.5 %	3.8 %	14.9 %	4.1 %	4.4 %	17.6 %	2.2 %	13.9 %	1.9 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.099 ppb	1.796 ppb	3.604 ppb	72.800 ppb	0.192 ppb	2.682 ppb	2.393 ppb	41.445 ppb	99.866 %
Concentration per Run 1	0.084 ppb	1.940 ppb	2.864 ppb	86.147 ppb	0.200 ppb	2.756 ppb	2.503 ppb	42.412 ppb	98.180 %
Concentration per Run 2	0.101 ppb	1.708 ppb	3.534 ppb	66.674 ppb	0.179 ppb	2.760 ppb	2.391 ppb	41.264 ppb	100.590 %
Concentration per Run 3	0.112 ppb	1.740 ppb	4.414 ppb	65.579 ppb	0.197 ppb	2.529 ppb	2.286 ppb	40.660 ppb	100.828 %
Concentration RSD	14.3 %	7.0 %	21.6 %	15.9 %	6.1 %	4.9 %	4.5 %	2.1 %	1.5 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	-0.486 ppb	1.455 ppb	0.457 ppb	1.060 ppb	110.780 %	0.016 ppb	0.028 ppb	108.136 %	1.530 ppb
Concentration per Run 1	-0.394 ppb	1.601 ppb	0.476 ppb	1.356 ppb	111.648 %	0.016 ppb	0.042 ppb	107.626 %	1.876 ppb
Concentration per Run 2	-0.437 ppb	1.031 ppb	0.466 ppb	0.985 ppb	109.684 %	0.012 ppb	0.021 ppb	108.129 %	1.384 ppb
Concentration per Run 3	-0.628 ppb	1.733 ppb	0.428 ppb	0.840 ppb	111.008 %	0.020 ppb	0.021 ppb	108.654 %	1.331 ppb
Concentration RSD	25.6 %	25.6 %	5.5 %	25.1 %	0.9 %	27.6 %	43.3 %	0.5 %	19.6 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	0.658 ppb	115.390 %	124.047 %	0.136 ppb	0.128 ppb
Concentration per Run 1	0.880 ppb	114.637 %	125.115 %	0.122 ppb	0.135 ppb
Concentration per Run 2	0.662 ppb	113.661 %	123.065 %	0.142 ppb	0.133 ppb
Concentration per Run 3	0.432 ppb	117.873 %	123.961 %	0.142 ppb	0.117 ppb
Concentration RSD	34.1 %	1.9 %	0.8 %	8.6 %	7.9 %

Alpha ICPMSQ Data with SRD

6/26/2024 10:46:24 AM

Analysis index:	73	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	I2429901-07d2 A2-6020T	Rack	1		
Analysis started at:	6/26/2024 9:57:08 AM	Vial	38		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	87.296 %	100.861 %	0.012 ppb	3,362.094 ppb	2,196.906 ppb	6.314 ppb	33,765.675 ppb	11,200.812 ppb	95.038 %
Concentration per Run 1	88.097 %	103.321 %	0.016 ppb	3,268.290 ppb	2,174.557 ppb	5.282 ppb	34,521.348 ppb	11,383.748 ppb	95.452 %
Concentration per Run 2	88.036 %	96.494 %	0.009 ppb	3,394.992 ppb	2,204.041 ppb	6.271 ppb	32,358.116 ppb	11,052.667 ppb	94.817 %
Concentration per Run 3	85.755 %	102.768 %	0.010 ppb	3,423.002 ppb	2,212.121 ppb	7.390 ppb	34,417.562 ppb	11,166.021 ppb	94.844 %
Concentration RSD	1.5 %	3.8 %	31.6 %	2.5 %	0.9 %	16.7 %	3.6 %	1.5 %	0.4 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.238 ppb	1.401 ppb	11.115 ppb	85.927 ppb	0.075 ppb	0.497 ppb	3.099 ppb	38.459 ppb	98.704 %
Concentration per Run 1	0.164 ppb	1.508 ppb	10.772 ppb	84.134 ppb	0.087 ppb	0.365 ppb	3.046 ppb	39.792 ppb	97.913 %
Concentration per Run 2	0.248 ppb	1.350 ppb	10.187 ppb	87.506 ppb	0.062 ppb	0.503 ppb	3.312 ppb	39.322 ppb	94.799 %
Concentration per Run 3	0.303 ppb	1.344 ppb	12.387 ppb	86.142 ppb	0.075 ppb	0.623 ppb	2.939 ppb	36.263 ppb	103.401 %
Concentration RSD	29.2 %	6.6 %	10.2 %	2.0 %	16.6 %	26.0 %	6.2 %	5.0 %	4.4 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	-0.756 ppb	1.110 ppb	8.460 ppb	0.287 ppb	111.159 %	0.022 ppb	0.005 ppb	107.136 %	0.467 ppb
Concentration per Run 1	-0.600 ppb	1.050 ppb	8.559 ppb	0.362 ppb	109.675 %	0.021 ppb	0.000 ppb	109.151 %	0.451 ppb
Concentration per Run 2	-0.640 ppb	0.527 ppb	8.185 ppb	0.257 ppb	109.060 %	0.020 ppb	0.011 ppb	99.982 %	0.452 ppb
Concentration per Run 3	-1.030 ppb	1.751 ppb	8.637 ppb	0.241 ppb	114.740 %	0.024 ppb	0.005 ppb	112.276 %	0.497 ppb
Concentration RSD	31.4 %	55.4 %	2.9 %	23.0 %	2.8 %	9.4 %	103.2 %	6.0 %	5.6 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	2.012 ppb	116.097 %	122.167 %	0.057 ppb	0.507 ppb
Concentration per Run 1	1.818 ppb	116.857 %	124.514 %	0.036 ppb	0.489 ppb
Concentration per Run 2	2.351 ppb	108.066 %	114.324 %	0.064 ppb	0.534 ppb
Concentration per Run 3	1.868 ppb	123.368 %	127.663 %	0.071 ppb	0.497 ppb
Concentration RSD	14.6 %	6.6 %	5.7 %	32.4 %	4.7 %

Alpha ICPMSQ Data with SRD

6/26/2024 10:46:24 AM

Analysis index:	74	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	I2429908-01d2 A2-6020T	Rack	1		
Analysis started at:	6/26/2024 10:01:46 AM	Vial	39		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	89.074 %	94.219 %	0.023 ppb	2,521.401 ppb	2,254.644 ppb	5.380 ppb	32,809.853 ppb	813.329 ppb	97.095 %
Concentration per Run 1	89.965 %	100.000 %	0.025 ppb	2,458.366 ppb	2,197.290 ppb	6.135 ppb	32,957.530 ppb	761.727 ppb	95.757 %
Concentration per Run 2	89.463 %	94.834 %	0.019 ppb	2,381.734 ppb	2,072.003 ppb	4.098 ppb	31,430.171 ppb	758.572 ppb	98.168 %
Concentration per Run 3	87.793 %	87.823 %	0.024 ppb	2,724.103 ppb	2,494.638 ppb	5.909 ppb	34,041.859 ppb	919.687 ppb	97.358 %
Concentration RSD	1.3 %	6.5 %	14.1 %	7.1 %	9.6 %	20.8 %	4.0 %	11.3 %	1.3 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.113 ppb	0.988 ppb	2.387 ppb	26.102 ppb	0.085 ppb	0.438 ppb	1.191 ppb	26.265 ppb	99.596 %
Concentration per Run 1	0.170 ppb	1.030 ppb	1.972 ppb	23.950 ppb	0.080 ppb	0.394 ppb	1.067 ppb	26.822 ppb	96.503 %
Concentration per Run 2	0.031 ppb	0.986 ppb	2.062 ppb	26.603 ppb	0.076 ppb	0.501 ppb	1.177 ppb	24.719 ppb	100.443 %
Concentration per Run 3	0.137 ppb	0.948 ppb	3.128 ppb	27.752 ppb	0.098 ppb	0.421 ppb	1.328 ppb	27.253 ppb	101.843 %
Concentration RSD	64.7 %	4.2 %	26.9 %	7.5 %	14.1 %	12.6 %	11.0 %	5.2 %	2.8 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	-0.593 ppb	1.343 ppb	0.580 ppb	0.387 ppb	109.525 %	0.176 ppb	0.007 ppb	108.425 %	0.483 ppb
Concentration per Run 1	-0.573 ppb	1.483 ppb	0.545 ppb	0.375 ppb	109.090 %	0.162 ppb	0.005 ppb	107.244 %	0.487 ppb
Concentration per Run 2	-0.588 ppb	0.858 ppb	0.574 ppb	0.368 ppb	106.481 %	0.194 ppb	0.006 ppb	101.683 %	0.495 ppb
Concentration per Run 3	-0.619 ppb	1.687 ppb	0.622 ppb	0.416 ppb	113.005 %	0.171 ppb	0.010 ppb	116.348 %	0.468 ppb
Concentration RSD	3.9 %	32.1 %	6.6 %	6.7 %	3.0 %	9.3 %	37.6 %	6.8 %	2.9 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	0.374 ppb	113.613 %	120.372 %	0.079 ppb	0.087 ppb
Concentration per Run 1	0.360 ppb	110.322 %	119.725 %	0.062 ppb	0.083 ppb
Concentration per Run 2	0.556 ppb	109.427 %	114.683 %	0.084 ppb	0.094 ppb
Concentration per Run 3	0.206 ppb	121.090 %	126.709 %	0.091 ppb	0.084 ppb
Concentration RSD	46.9 %	5.7 %	5.0 %	19.4 %	7.0 %

Alpha ICPMSQ Data with SRD

6/26/2024 10:46:24 AM

Analysis index:	75	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	I2429908-02d2 A2-6020T	Rack	1		
Analysis started at:	6/26/2024 10:06:24 AM	Vial	40		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	89.974 %	98.831 %	0.014 ppb	2,071.217 ppb	2,454.138 ppb	4.648 ppb	35,561.642 ppb	827.837 ppb	98.656 %
Concentration per Run 1	91.389 %	102.768 %	0.011 ppb	2,074.485 ppb	2,474.998 ppb	6.003 ppb	37,328.035 ppb	869.672 ppb	99.041 %
Concentration per Run 2	90.097 %	94.096 %	0.023 ppb	2,032.235 ppb	2,449.062 ppb	3.964 ppb	33,529.294 ppb	792.188 ppb	98.569 %
Concentration per Run 3	88.437 %	99.631 %	0.007 ppb	2,106.931 ppb	2,438.353 ppb	3.976 ppb	35,827.597 ppb	821.651 ppb	98.358 %
Concentration RSD	1.6 %	4.4 %	58.6 %	1.8 %	0.8 %	25.3 %	5.4 %	4.7 %	0.4 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.062 ppb	0.848 ppb	6.683 ppb	18.575 ppb	0.028 ppb	0.393 ppb	0.924 ppb	29.160 ppb	102.286 %
Concentration per Run 1	0.135 ppb	0.883 ppb	6.572 ppb	17.312 ppb	0.032 ppb	0.470 ppb	0.970 ppb	31.254 ppb	95.638 %
Concentration per Run 2	0.062 ppb	0.915 ppb	6.627 ppb	16.909 ppb	0.022 ppb	0.307 ppb	0.832 ppb	27.650 ppb	103.251 %
Concentration per Run 3	-0.010 ppb	0.745 ppb	6.851 ppb	21.504 ppb	0.029 ppb	0.403 ppb	0.969 ppb	28.576 ppb	107.970 %
Concentration RSD	116.3 %	10.6 %	2.2 %	13.7 %	17.9 %	20.8 %	8.6 %	6.4 %	6.1 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	-0.708 ppb	1.421 ppb	0.394 ppb	0.172 ppb	110.839 %	0.002 ppb	0.011 ppb	110.162 %	0.200 ppb
Concentration per Run 1	-0.497 ppb	1.216 ppb	0.424 ppb	0.136 ppb	110.740 %	0.006 ppb	0.005 ppb	111.856 %	0.147 ppb
Concentration per Run 2	-0.878 ppb	1.693 ppb	0.361 ppb	0.233 ppb	108.420 %	-0.001 ppb	0.016 ppb	104.956 %	0.211 ppb
Concentration per Run 3	-0.748 ppb	1.355 ppb	0.396 ppb	0.146 ppb	113.356 %	0.002 ppb	0.010 ppb	113.673 %	0.241 ppb
Concentration RSD	27.4 %	17.3 %	8.1 %	31.0 %	2.2 %	137.4 %	52.9 %	4.2 %	24.0 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	0.294 ppb	113.548 %	120.909 %	0.074 ppb	0.042 ppb
Concentration per Run 1	0.262 ppb	111.758 %	118.320 %	0.059 ppb	0.043 ppb
Concentration per Run 2	0.410 ppb	109.752 %	117.240 %	0.078 ppb	0.045 ppb
Concentration per Run 3	0.210 ppb	119.134 %	127.168 %	0.084 ppb	0.037 ppb
Concentration RSD	35.2 %	4.4 %	4.5 %	17.6 %	9.7 %

Alpha ICPMSQ Data with SRD

6/26/2024 10:46:24 AM

Analysis index:	76	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	I2429908-03d2 A2-6020T	Rack	1		
Analysis started at:	6/26/2024 10:11:02 AM	Vial	41		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	90.149 %	97.724 %	0.012 ppb	3,353.196 ppb	2,613.050 ppb	12.822 ppb	36,161.722 ppb	984.934 ppb	96.750 %
Concentration per Run 1	92.175 %	98.893 %	0.011 ppb	3,394.476 ppb	2,623.875 ppb	13.459 ppb	37,688.470 ppb	1,060.370 ppb	97.050 %
Concentration per Run 2	89.304 %	99.447 %	0.014 ppb	3,291.240 ppb	2,587.304 ppb	12.275 ppb	36,302.159 ppb	992.538 ppb	97.538 %
Concentration per Run 3	88.967 %	94.834 %	0.011 ppb	3,373.871 ppb	2,627.971 ppb	12.732 ppb	34,494.535 ppb	901.895 ppb	95.661 %
Concentration RSD	2.0 %	2.6 %	15.1 %	1.6 %	0.9 %	4.7 %	4.4 %	8.1 %	1.0 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.064 ppb	1.373 ppb	2.545 ppb	49.890 ppb	0.081 ppb	2.516 ppb	1.681 ppb	48.747 ppb	102.501 %
Concentration per Run 1	0.015 ppb	1.406 ppb	2.107 ppb	52.896 ppb	0.078 ppb	2.569 ppb	1.549 ppb	49.921 ppb	96.359 %
Concentration per Run 2	-0.005 ppb	1.457 ppb	2.536 ppb	52.749 ppb	0.086 ppb	2.515 ppb	1.800 ppb	51.497 ppb	99.461 %
Concentration per Run 3	0.180 ppb	1.256 ppb	2.991 ppb	44.026 ppb	0.079 ppb	2.463 ppb	1.694 ppb	44.824 ppb	111.684 %
Concentration RSD	159.7 %	7.6 %	17.4 %	10.2 %	5.9 %	2.1 %	7.5 %	7.2 %	7.9 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	-0.449 ppb	1.957 ppb	0.510 ppb	0.359 ppb	110.126 %	0.001 ppb	0.007 ppb	110.809 %	0.163 ppb
Concentration per Run 1	0.053 ppb	1.686 ppb	0.524 ppb	0.332 ppb	106.342 %	0.001 ppb	0.000 ppb	110.193 %	0.115 ppb
Concentration per Run 2	-0.638 ppb	2.274 ppb	0.549 ppb	0.397 ppb	110.649 %	0.004 ppb	0.016 ppb	111.206 %	0.195 ppb
Concentration per Run 3	-0.761 ppb	1.911 ppb	0.458 ppb	0.349 ppb	113.387 %	-0.002 ppb	0.005 ppb	111.027 %	0.179 ppb
Concentration RSD	97.8 %	15.1 %	9.2 %	9.3 %	3.2 %	298.3 %	114.8 %	0.5 %	26.1 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	0.321 ppb	112.124 %	120.951 %	0.078 ppb	0.043 ppb
Concentration per Run 1	0.309 ppb	111.418 %	122.022 %	0.063 ppb	0.045 ppb
Concentration per Run 2	0.264 ppb	110.978 %	121.001 %	0.085 ppb	0.041 ppb
Concentration per Run 3	0.391 ppb	113.976 %	119.830 %	0.086 ppb	0.045 ppb
Concentration RSD	20.1 %	1.4 %	0.9 %	16.4 %	5.9 %

Alpha ICPMSQ Data with SRD

6/26/2024 10:46:24 AM

Analysis index:	77	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	I2429908-04d2 A2-6020T	Rack	1		
Analysis started at:	6/26/2024 10:15:41 AM	Vial	42		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	91.305 %	96.863 %	0.003 ppb	3,256.050 ppb	2,370.201 ppb	4.065 ppb	30,430.229 ppb	2,310.546 ppb	97.614 %
Concentration per Run 1	92.651 %	95.941 %	0.004 ppb	3,340.025 ppb	2,372.727 ppb	3.406 ppb	30,659.455 ppb	2,354.143 ppb	98.696 %
Concentration per Run 2	91.455 %	102.030 %	-0.003 ppb	3,084.959 ppb	2,198.809 ppb	4.795 ppb	29,237.750 ppb	2,279.107 ppb	97.512 %
Concentration per Run 3	89.810 %	92.620 %	0.008 ppb	3,343.165 ppb	2,539.067 ppb	3.994 ppb	31,393.481 ppb	2,298.387 ppb	96.635 %
Concentration RSD	1.6 %	4.9 %	188.1 %	4.6 %	7.2 %	17.2 %	3.6 %	1.7 %	1.1 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	-0.040 ppb	1.220 ppb	2.577 ppb	38.344 ppb	0.061 ppb	3.210 ppb	1.766 ppb	60.602 ppb	102.671 %
Concentration per Run 1	-0.072 ppb	1.153 ppb	2.348 ppb	38.982 ppb	0.065 ppb	3.425 ppb	1.877 ppb	62.046 ppb	99.207 %
Concentration per Run 2	-0.041 ppb	1.155 ppb	2.404 ppb	34.579 ppb	0.048 ppb	3.041 ppb	1.760 ppb	60.101 ppb	103.842 %
Concentration per Run 3	-0.006 ppb	1.352 ppb	2.980 ppb	41.472 ppb	0.070 ppb	3.163 ppb	1.663 ppb	59.658 ppb	104.964 %
Concentration RSD	83.3 %	9.4 %	13.6 %	9.1 %	18.9 %	6.1 %	6.1 %	2.1 %	3.0 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	-0.087 ppb	1.431 ppb	1.927 ppb	0.286 ppb	110.997 %	-0.001 ppb	0.005 ppb	108.634 %	0.132 ppb
Concentration per Run 1	-0.116 ppb	1.760 ppb	2.015 ppb	0.277 ppb	107.500 %	0.002 ppb	0.000 ppb	104.163 %	0.151 ppb
Concentration per Run 2	-0.147 ppb	0.881 ppb	1.931 ppb	0.287 ppb	110.541 %	0.000 ppb	0.000 ppb	111.742 %	0.067 ppb
Concentration per Run 3	0.002 ppb	1.651 ppb	1.835 ppb	0.295 ppb	114.950 %	-0.004 ppb	0.015 ppb	109.996 %	0.177 ppb
Concentration RSD	90.7 %	33.5 %	4.7 %	3.2 %	3.4 %	353.5 %	173.2 %	3.7 %	44.0 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	0.297 ppb	110.285 %	120.256 %	0.046 ppb	0.024 ppb
Concentration per Run 1	0.185 ppb	107.479 %	117.517 %	0.036 ppb	0.026 ppb
Concentration per Run 2	0.131 ppb	111.916 %	120.639 %	0.050 ppb	0.027 ppb
Concentration per Run 3	0.574 ppb	111.461 %	122.613 %	0.052 ppb	0.019 ppb
Concentration RSD	81.5 %	2.2 %	2.1 %	18.9 %	19.7 %

Alpha ICPMSQ Data with SRD

6/26/2024 10:46:24 AM

Analysis index:	78	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	I2429908-05d2 A2-6020T	Rack	1		
Analysis started at:	6/26/2024 10:20:20 AM	Vial	43		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	90.893 %	103.506 %	0.009 ppb	2,863.565 ppb	3,133.019 ppb	7.226 ppb	40,444.112 ppb	1,096.022 ppb	101.088 %
Concentration per Run 1	93.093 %	102.214 %	0.003 ppb	2,967.147 ppb	3,252.917 ppb	7.826 ppb	41,834.452 ppb	1,209.046 ppb	102.133 %
Concentration per Run 2	91.116 %	100.738 %	0.014 ppb	2,927.057 ppb	3,149.302 ppb	8.223 ppb	41,452.421 ppb	1,167.475 ppb	102.414 %
Concentration per Run 3	88.470 %	107.565 %	0.009 ppb	2,696.492 ppb	2,996.838 ppb	5.630 ppb	38,045.463 ppb	911.545 ppb	98.718 %
Concentration RSD	2.6 %	3.5 %	61.6 %	5.1 %	4.1 %	19.3 %	5.2 %	14.7 %	2.0 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.529 ppb	1.074 ppb	1.704 ppb	27.594 ppb	0.045 ppb	0.474 ppb	1.792 ppb	47.025 ppb	102.390 %
Concentration per Run 1	0.526 ppb	1.127 ppb	1.358 ppb	24.028 ppb	0.079 ppb	0.427 ppb	2.058 ppb	48.815 ppb	96.910 %
Concentration per Run 2	0.612 ppb	1.112 ppb	1.811 ppb	31.208 ppb	0.043 ppb	0.505 ppb	1.756 ppb	46.448 ppb	104.682 %
Concentration per Run 3	0.450 ppb	0.982 ppb	1.942 ppb	27.545 ppb	0.013 ppb	0.490 ppb	1.562 ppb	45.812 ppb	105.578 %
Concentration RSD	15.4 %	7.5 %	18.0 %	13.0 %	73.5 %	8.8 %	14.0 %	3.4 %	4.7 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	-0.547 ppb	1.677 ppb	0.576 ppb	0.129 ppb	111.013 %	-0.001 ppb	0.009 ppb	107.811 %	0.107 ppb
Concentration per Run 1	-0.248 ppb	1.204 ppb	0.600 ppb	0.108 ppb	108.599 %	-0.002 ppb	0.011 ppb	106.449 %	0.071 ppb
Concentration per Run 2	-0.583 ppb	1.777 ppb	0.594 ppb	0.111 ppb	112.475 %	-0.003 ppb	0.005 ppb	107.405 %	0.125 ppb
Concentration per Run 3	-0.812 ppb	2.050 ppb	0.535 ppb	0.168 ppb	111.965 %	0.002 ppb	0.010 ppb	109.580 %	0.124 ppb
Concentration RSD	51.8 %	25.7 %	6.2 %	26.3 %	1.9 %	314.3 %	34.8 %	1.5 %	28.7 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	0.211 ppb	109.337 %	118.424 %	0.073 ppb	0.023 ppb
Concentration per Run 1	0.277 ppb	105.269 %	116.777 %	0.058 ppb	0.019 ppb
Concentration per Run 2	0.177 ppb	114.045 %	121.396 %	0.086 ppb	0.020 ppb
Concentration per Run 3	0.179 ppb	108.696 %	117.100 %	0.073 ppb	0.031 ppb
Concentration RSD	27.2 %	4.0 %	2.2 %	19.3 %	28.8 %

Alpha ICPMSQ Data with SRD

6/26/2024 10:46:24 AM

Analysis index:	79	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	I2429908-06d2 A2-6020T	Rack	1		
Analysis started at:	6/26/2024 10:24:59 AM	Vial	44		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	91.461 %	96.925 %	0.015 ppb	3,599.914 ppb	3,086.493 ppb	4.537 ppb	41,023.221 ppb	2,649.817 ppb	100.324 %
Concentration per Run 1	93.227 %	95.203 %	0.024 ppb	3,738.277 ppb	3,166.978 ppb	4.795 ppb	42,409.544 ppb	2,605.175 ppb	101.985 %
Concentration per Run 2	92.661 %	92.620 %	0.008 ppb	3,567.616 ppb	3,085.561 ppb	4.274 ppb	40,583.655 ppb	2,685.960 ppb	100.806 %
Concentration per Run 3	88.494 %	102.952 %	0.013 ppb	3,493.847 ppb	3,006.940 ppb	4.542 ppb	40,076.464 ppb	2,658.315 ppb	98.180 %
Concentration RSD	2.8 %	5.5 %	55.8 %	3.5 %	2.6 %	5.7 %	3.0 %	1.5 %	1.9 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	-0.019 ppb	2.126 ppb	4.808 ppb	36.764 ppb	0.112 ppb	3.240 ppb	1.345 ppb	46.199 ppb	106.892 %
Concentration per Run 1	0.011 ppb	2.185 ppb	4.958 ppb	38.321 ppb	0.146 ppb	3.459 ppb	1.349 ppb	48.408 ppb	103.548 %
Concentration per Run 2	-0.024 ppb	2.053 ppb	5.004 ppb	33.778 ppb	0.092 ppb	3.291 ppb	1.417 ppb	44.809 ppb	107.757 %
Concentration per Run 3	-0.043 ppb	2.140 ppb	4.462 ppb	38.192 ppb	0.097 ppb	2.971 ppb	1.270 ppb	45.381 ppb	109.371 %
Concentration RSD	145.5 %	3.2 %	6.2 %	7.0 %	26.8 %	7.6 %	5.5 %	4.2 %	2.8 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	-0.858 ppb	0.832 ppb	1.442 ppb	0.469 ppb	111.110 %	0.270 ppb	0.002 ppb	108.599 %	0.094 ppb
Concentration per Run 1	-0.858 ppb	0.880 ppb	1.376 ppb	0.571 ppb	106.991 %	0.270 ppb	0.000 ppb	106.099 %	0.100 ppb
Concentration per Run 2	-0.898 ppb	0.822 ppb	1.528 ppb	0.440 ppb	112.388 %	0.276 ppb	0.005 ppb	111.880 %	0.097 ppb
Concentration per Run 3	-0.818 ppb	0.793 ppb	1.421 ppb	0.396 ppb	113.951 %	0.262 ppb	0.000 ppb	107.818 %	0.085 ppb
Concentration RSD	4.7 %	5.4 %	5.4 %	19.4 %	3.3 %	2.7 %	173.2 %	2.7 %	8.6 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	0.163 ppb	110.620 %	118.974 %	0.064 ppb	0.026 ppb
Concentration per Run 1	0.186 ppb	103.851 %	115.100 %	0.045 ppb	0.026 ppb
Concentration per Run 2	0.304 ppb	113.502 %	118.660 %	0.084 ppb	0.026 ppb
Concentration per Run 3	0.000 ppb	114.507 %	123.164 %	0.064 ppb	0.025 ppb
Concentration RSD	93.8 %	5.3 %	3.4 %	30.5 %	1.4 %

Alpha ICPMSQ Data with SRD

6/26/2024 10:46:24 AM

Analysis index:	80	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	I2429908-07d2 A2-6020T	Rack	1		
Analysis started at:	6/26/2024 10:29:39 AM	Vial	45		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	92.280 %	101.907 %	0.013 ppb	3,084.755 ppb	2,453.662 ppb	8.499 ppb	37,114.127 ppb	650.063 ppb	101.458 %
Concentration per Run 1	94.349 %	101.107 %	0.011 ppb	3,071.768 ppb	2,458.877 ppb	8.036 ppb	36,998.649 ppb	705.330 ppb	101.269 %
Concentration per Run 2	92.616 %	98.708 %	0.013 ppb	3,116.749 ppb	2,445.645 ppb	7.416 ppb	35,703.312 ppb	570.152 ppb	101.576 %
Concentration per Run 3	89.874 %	105.904 %	0.014 ppb	3,065.747 ppb	2,456.465 ppb	10.046 ppb	38,640.420 ppb	674.706 ppb	101.530 %
Concentration RSD	2.4 %	3.6 %	13.5 %	0.9 %	0.3 %	16.2 %	4.0 %	10.9 %	0.2 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.053 ppb	0.747 ppb	2.464 ppb	58.502 ppb	0.075 ppb	0.428 ppb	2.514 ppb	38.092 ppb	104.339 %
Concentration per Run 1	0.135 ppb	0.750 ppb	1.973 ppb	56.190 ppb	0.063 ppb	0.507 ppb	2.608 ppb	40.236 ppb	96.039 %
Concentration per Run 2	0.009 ppb	0.717 ppb	2.637 ppb	60.239 ppb	0.075 ppb	0.352 ppb	2.767 ppb	37.031 ppb	104.103 %
Concentration per Run 3	0.016 ppb	0.775 ppb	2.783 ppb	59.077 ppb	0.086 ppb	0.424 ppb	2.168 ppb	37.009 ppb	112.875 %
Concentration RSD	133.1 %	3.9 %	17.5 %	3.6 %	15.2 %	18.2 %	12.3 %	4.9 %	8.1 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	-0.302 ppb	0.961 ppb	0.712 ppb	0.165 ppb	109.505 %	0.003 ppb	0.010 ppb	112.487 %	0.089 ppb
Concentration per Run 1	-0.027 ppb	0.952 ppb	0.743 ppb	0.253 ppb	105.591 %	0.003 ppb	0.011 ppb	105.446 %	0.093 ppb
Concentration per Run 2	-0.297 ppb	1.379 ppb	0.710 ppb	0.124 ppb	109.681 %	0.005 ppb	0.000 ppb	110.547 %	0.080 ppb
Concentration per Run 3	-0.582 ppb	0.551 ppb	0.685 ppb	0.117 ppb	113.242 %	0.002 ppb	0.019 ppb	121.468 %	0.095 ppb
Concentration RSD	91.9 %	43.1 %	4.1 %	46.8 %	3.5 %	43.1 %	96.2 %	7.3 %	9.3 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	0.508 ppb	110.585 %	120.948 %	0.041 ppb	0.090 ppb
Concentration per Run 1	0.278 ppb	105.854 %	114.635 %	0.034 ppb	0.090 ppb
Concentration per Run 2	0.715 ppb	108.301 %	117.242 %	0.044 ppb	0.093 ppb
Concentration per Run 3	0.532 ppb	117.599 %	130.966 %	0.046 ppb	0.086 ppb
Concentration RSD	43.2 %	5.6 %	7.3 %	15.7 %	4.2 %

Alpha ICPMSQ Data with SRD

6/26/2024 10:46:24 AM

Analysis index:	81	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	CCV	Rack	0		
Analysis started at:	6/26/2024 10:34:19 AM	Vial	9		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	89.762 %	99.939 %	60.529 ppb	6,006.840 ppb	6,103.307 ppb	58.245 ppb	5,990.879 ppb	6,367.831 ppb	91.937 %
Concentration per Run 1	91.040 %	107.749 %	60.381 ppb	5,738.464 ppb	5,710.030 ppb	55.557 ppb	5,813.411 ppb	6,402.452 ppb	92.350 %
Concentration per Run 2	90.046 %	93.727 %	60.680 ppb	6,340.249 ppb	6,576.779 ppb	60.687 ppb	6,276.767 ppb	6,636.837 ppb	92.075 %
Concentration per Run 3	88.200 %	98.339 %	60.525 ppb	5,941.807 ppb	6,023.113 ppb	58.492 ppb	5,882.459 ppb	6,064.204 ppb	91.387 %
Recovery Percentage 1			100.881 %	100.114 %	101.722 %	97.075 %	99.848 %	106.131 %	
Concentration RSD	1.6 %	7.2 %	0.2 %	5.1 %	7.2 %	4.4 %	4.2 %	4.5 %	0.5 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	63.412 ppb	66.408 ppb	60.882 ppb	5,841.414 ppb	60.649 ppb	57.857 ppb	61.432 ppb	59.965 ppb	104.682 %
Concentration per Run 1	63.912 ppb	65.628 ppb	60.800 ppb	5,861.075 ppb	62.025 ppb	58.601 ppb	63.099 ppb	61.078 ppb	100.943 %
Concentration per Run 2	64.967 ppb	68.177 ppb	61.923 ppb	5,959.733 ppb	61.501 ppb	57.222 ppb	61.301 ppb	60.894 ppb	105.980 %
Concentration per Run 3	61.358 ppb	65.419 ppb	59.922 ppb	5,703.433 ppb	58.421 ppb	57.747 ppb	59.894 ppb	57.924 ppb	107.123 %
Recovery Percentage 1	105.687 %	110.680 %	101.470 %	97.357 %	101.081 %	96.428 %	102.386 %	99.942 %	
Concentration RSD	2.9 %	2.3 %	1.6 %	2.2 %	3.2 %	1.2 %	2.6 %	3.0 %	3.1 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	58.339 ppb	60.582 ppb	61.097 ppb	56.593 ppb	112.338 %	59.617 ppb	60.493 ppb	113.107 %	55.557 ppb
Concentration per Run 1	58.672 ppb	57.366 ppb	59.641 ppb	54.987 ppb	109.632 %	59.822 ppb	60.326 ppb	110.127 %	53.660 ppb
Concentration per Run 2	59.342 ppb	65.252 ppb	65.267 ppb	56.579 ppb	112.288 %	60.100 ppb	61.768 ppb	116.116 %	56.316 ppb
Concentration per Run 3	57.002 ppb	59.129 ppb	58.383 ppb	58.211 ppb	115.093 %	58.927 ppb	59.384 ppb	113.078 %	56.695 ppb
Recovery Percentage 1	97.231 %	100.970 %	101.828 %	94.321 %		99.361 %	100.821 %		92.595 %
Concentration RSD	2.1 %	6.8 %	6.0 %	2.8 %	2.4 %	1.0 %	2.0 %	2.6 %	3.0 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	62.382 ppb	112.013 %	121.575 %	60.859 ppb	59.247 ppb
Concentration per Run 1	59.970 ppb	105.972 %	113.091 %	63.768 ppb	61.857 ppb
Concentration per Run 2	64.433 ppb	113.808 %	127.940 %	58.584 ppb	56.840 ppb
Concentration per Run 3	62.742 ppb	116.258 %	123.693 %	60.224 ppb	59.044 ppb
Recovery Percentage 1	103.969 %			101.431 %	98.745 %
Concentration RSD	3.6 %	4.8 %	6.3 %	4.4 %	4.2 %

Alpha ICPMSQ Data with SRD

6/26/2024 10:46:24 AM

Analysis index:	82	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	CCB	Rack	0		
Analysis started at:	6/26/2024 10:39:02 AM	Vial	10		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	86.846 %	93.419 %	0.016 ppb	-15.619 ppb	0.043 ppb	0.405 ppb	-1.640 ppb	-11.524 ppb	85.715 %
Concentration per Run 1	87.870 %	88.930 %	0.020 ppb	-12.616 ppb	-0.328 ppb	0.591 ppb	0.974 ppb	-3.902 ppb	85.536 %
Concentration per Run 2	86.523 %	91.328 %	0.023 ppb	-9.715 ppb	0.050 ppb	0.830 ppb	18.118 ppb	-19.059 ppb	86.177 %
Concentration per Run 3	86.145 %	100.000 %	0.007 ppb	-24.525 ppb	0.406 ppb	-0.207 ppb	-24.010 ppb	-11.612 ppb	85.430 %
Recovery Percentage 1			3.275 %	-15.619 %	0.061 %	4.046 %	-1.640 %	-11.524 %	
Concentration RSD	1.0 %	6.2 %	51.0 %	50.2 %	859.0 %	134.3 %	1,292.2 %	65.8 %	0.5 %

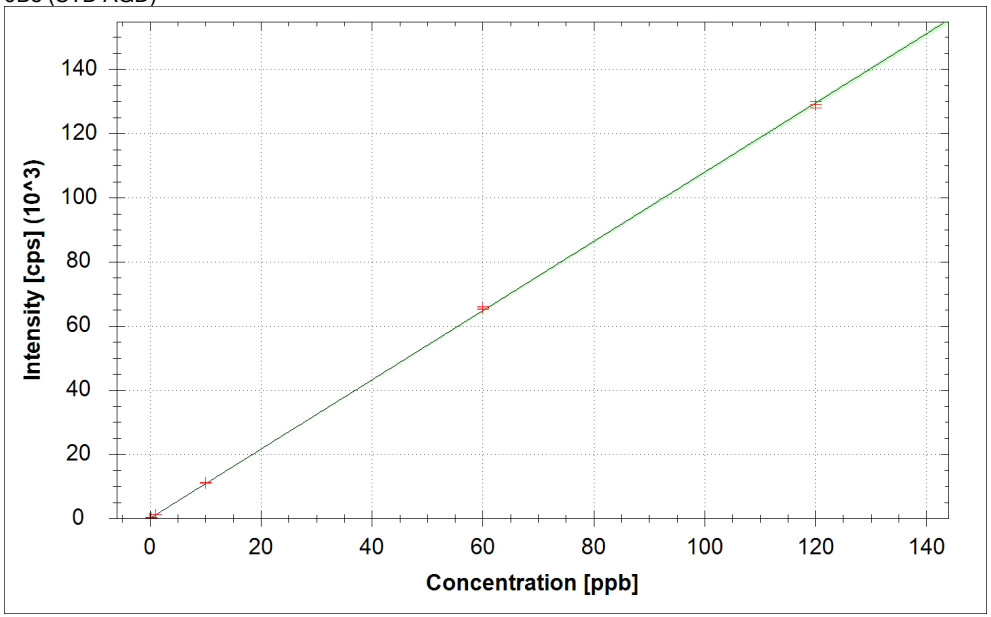
Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	-0.046 ppb	0.024 ppb	-0.125 ppb	9.952 ppb	0.006 ppb	-0.008 ppb	0.040 ppb	0.013 ppb	105.425 %
Concentration per Run 1	-0.056 ppb	0.002 ppb	-0.008 ppb	14.145 ppb	0.006 ppb	0.002 ppb	0.021 ppb	-0.016 ppb	105.159 %
Concentration per Run 2	-0.026 ppb	0.008 ppb	-0.095 ppb	7.808 ppb	0.005 ppb	-0.051 ppb	0.055 ppb	0.076 ppb	111.434 %
Concentration per Run 3	-0.056 ppb	0.063 ppb	-0.273 ppb	7.903 ppb	0.006 ppb	0.025 ppb	0.045 ppb	-0.023 ppb	99.684 %
Recovery Percentage 1	-0.914 %	2.428 %	-12.517 %	19.904 %	1.191 %	-0.401 %	3.996 %	0.253 %	
Concentration RSD	37.8 %	138.9 %	107.8 %	36.5 %	9.7 %	481.3 %	43.7 %	437.2 %	5.6 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	-0.185 ppb	0.207 ppb	0.003 ppb	0.981 ppb	111.678 %	0.008 ppb	0.014 ppb	114.076 %	0.934 ppb
Concentration per Run 1	-0.039 ppb	0.592 ppb	0.002 ppb	1.096 ppb	108.742 %	0.008 ppb	0.025 ppb	115.137 %	1.083 ppb
Concentration per Run 2	-0.259 ppb	-0.072 ppb	-0.005 ppb	1.053 ppb	113.561 %	0.006 ppb	0.010 ppb	116.070 %	0.947 ppb
Concentration per Run 3	-0.258 ppb	0.100 ppb	0.014 ppb	0.794 ppb	112.730 %	0.009 ppb	0.005 ppb	111.019 %	0.772 ppb
Recovery Percentage 1	-37.037 %	4.133 %	0.035 %	49.039 %		1.945 %	6.759 %		23.352 %
Concentration RSD	68.5 %	167.0 %	280.5 %	16.7 %	2.3 %	15.8 %	78.4 %	2.4 %	16.7 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	0.043 ppb	112.619 %	121.640 %	0.121 ppb	0.038 ppb
Concentration per Run 1	0.044 ppb	109.193 %	116.975 %	0.109 ppb	0.055 ppb
Concentration per Run 2	0.042 ppb	115.679 %	127.889 %	0.128 ppb	0.029 ppb
Concentration per Run 3	0.044 ppb	112.986 %	120.054 %	0.128 ppb	0.029 ppb
Recovery Percentage 1	8.633 %			12.147 %	3.770 %
Concentration RSD	1.9 %	2.9 %	4.6 %	9.0 %	40.2 %

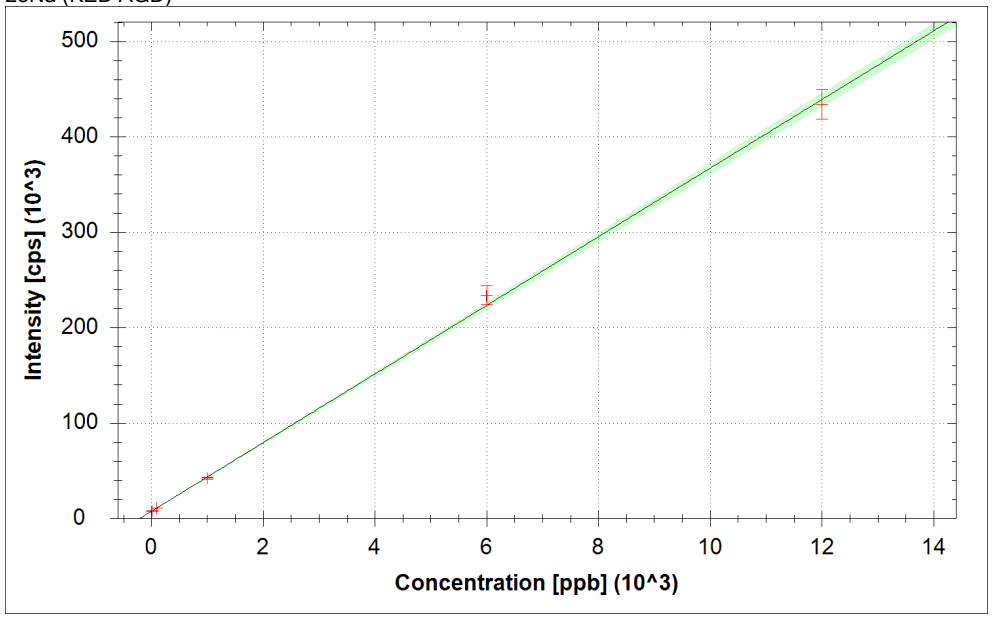
Calibration Curves:

9Be (STD AGD)



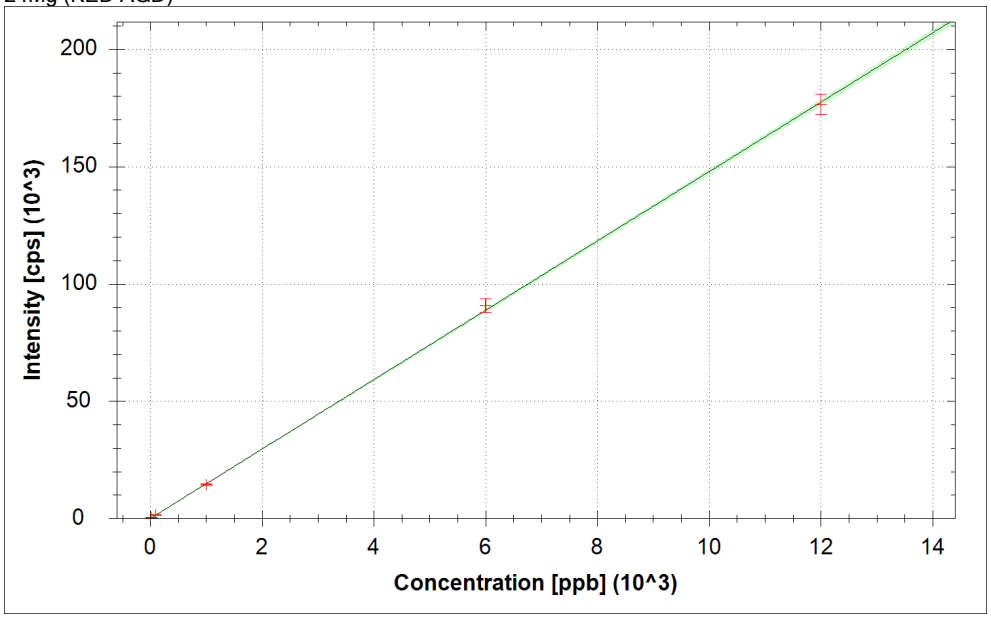
f(x) = 1078.6544*x + 23.5148
R² = 0.9999
BEC = 0.022 ppb
LoD = 0.0239 ppb

23Na (KED AGD)



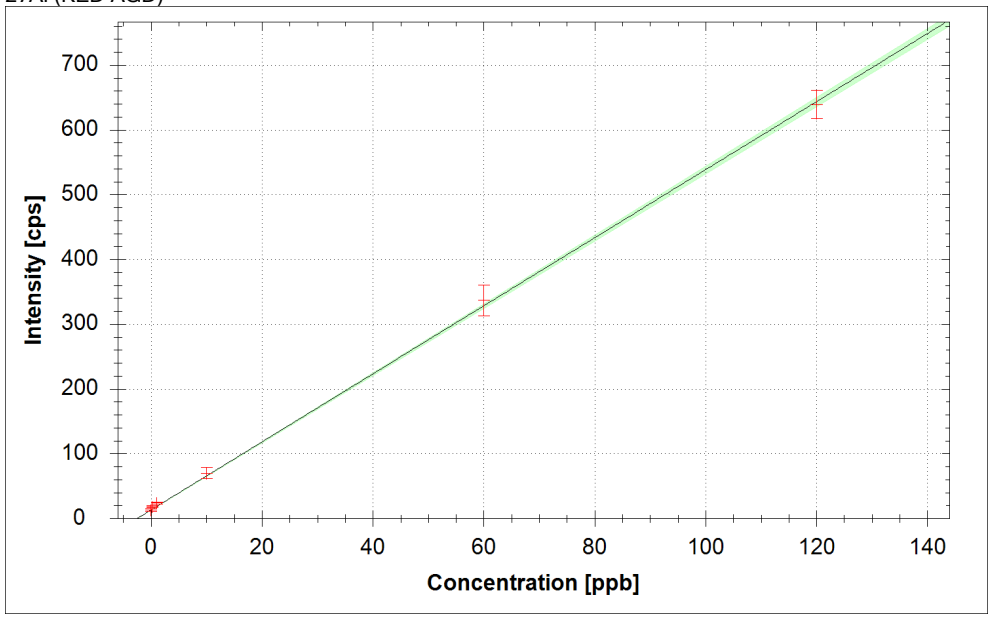
f(x) = 35.9413*x + 7443.8430
R² = 0.9991
BEC = 207.111 ppb
LoD = 15.4846 ppb

24Mg (KED AGD)



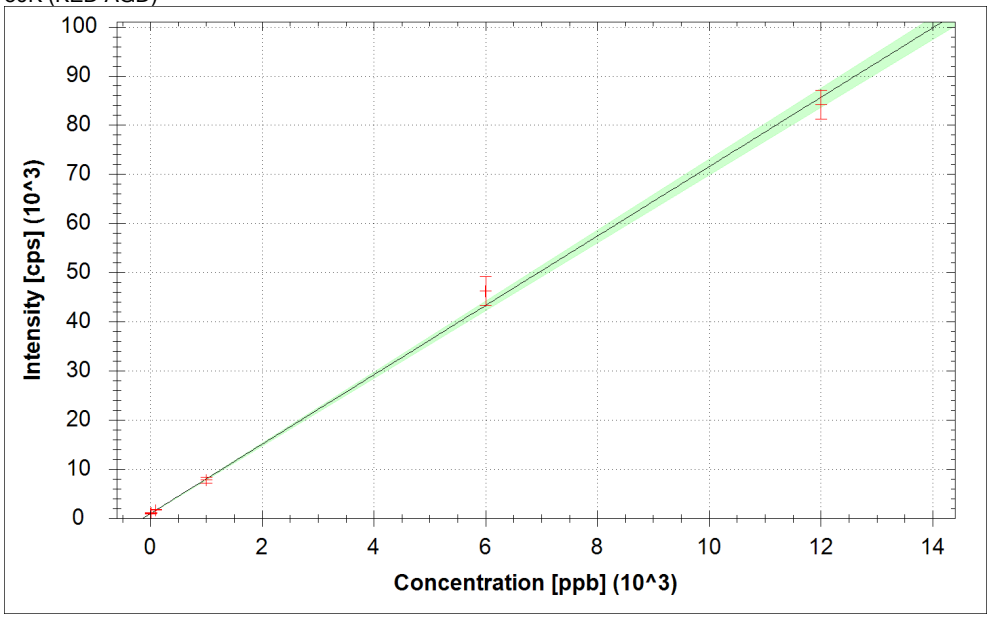
f(x) = 14.7787*x + 27.0214
R² = 0.9998
BEC = 1.828 ppb
LoD = 2.9117 ppb

27Al (KED AGD)



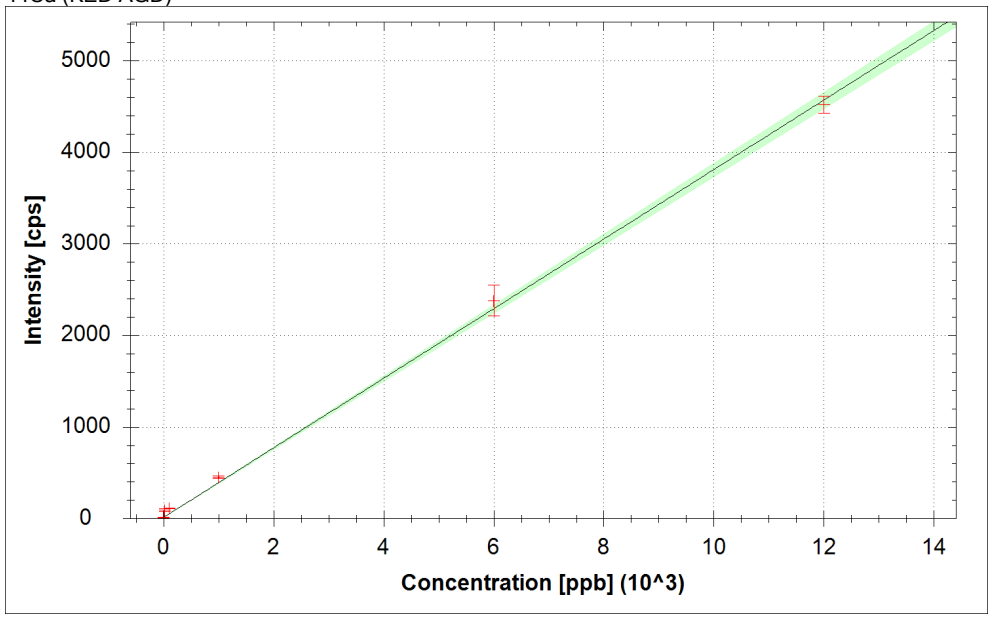
f(x) = 5.2531*x + 13.0756
R² = 0.9995
BEC = 2.489 ppb
LoD = 1.2088 ppb

39K (KED AGD)



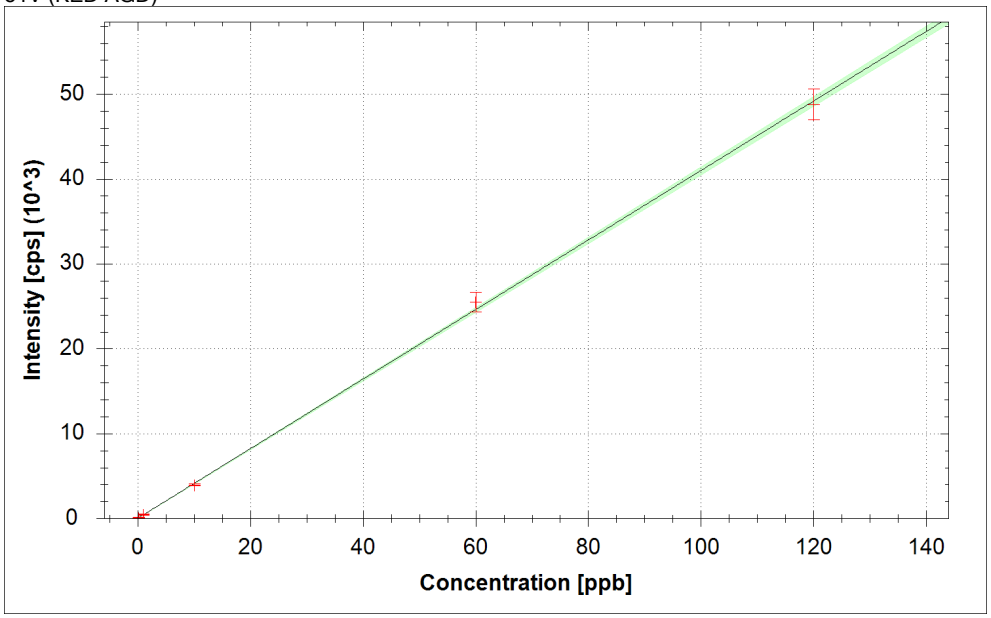
f(x) = 7.0538*x + 978.3686
R² = 0.9981
BEC = 138.700 ppb
LoD = 58.2869 ppb

44Ca (KED AGD)



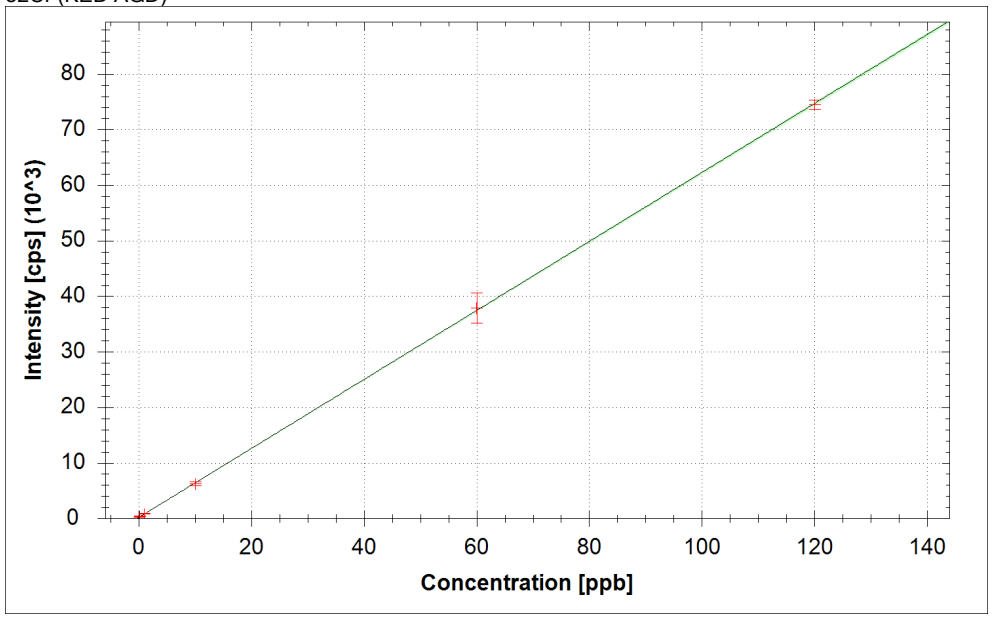
f(x) = 0.3799*x + 10.7165
R² = 0.9986
BEC = 28.211 ppb
LoD = 30.0806 ppb

51V (KED AGD)



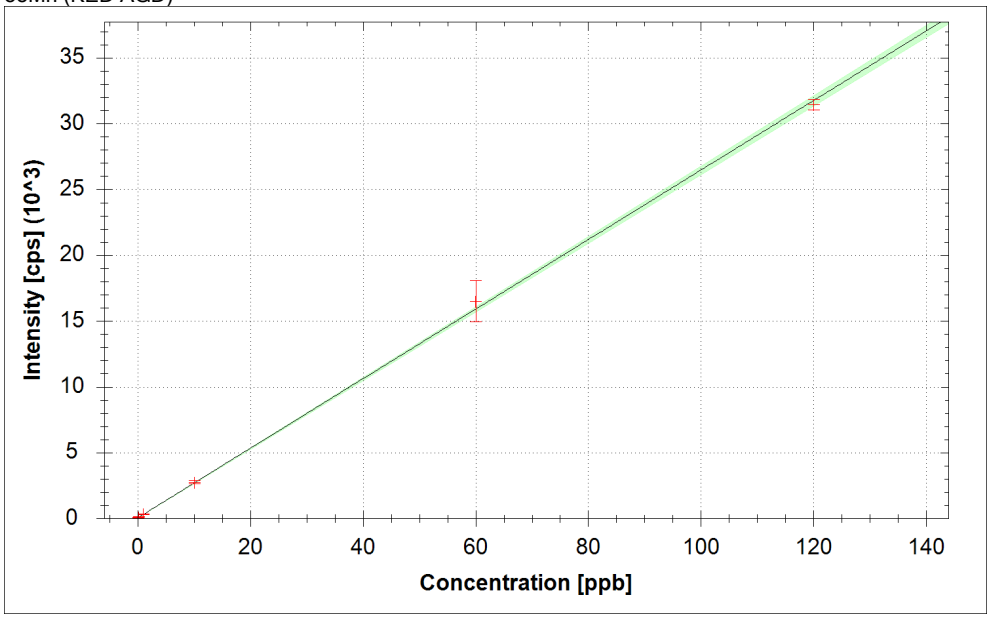
f(x) = 409.4350*x + 35.7260
R² = 0.9995
BEC = 0.087 ppb
LoD = 0.1032 ppb

52Cr (KED AGD)



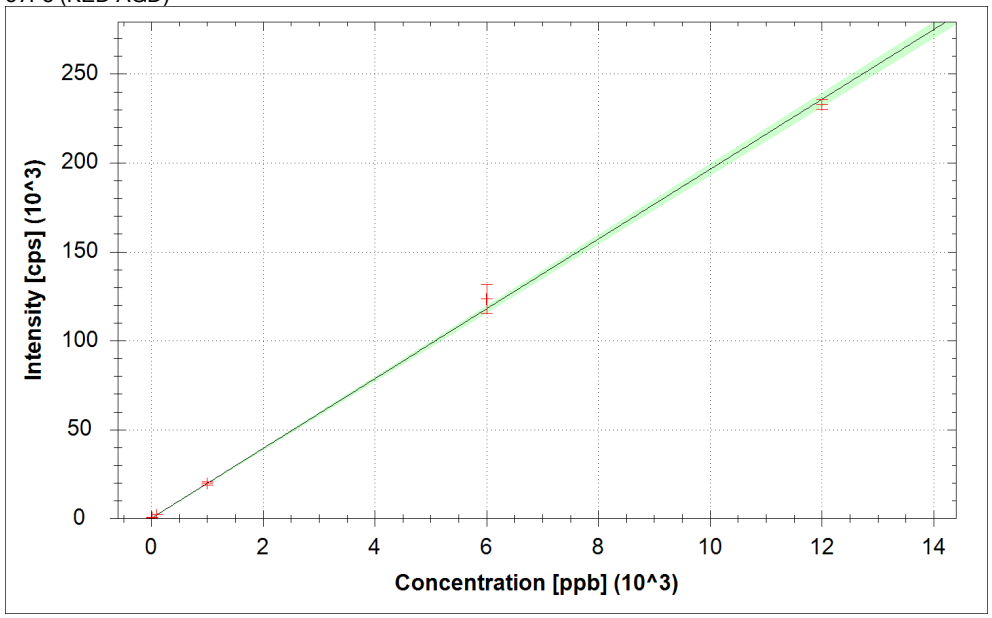
f(x) = 620.7328*x + 199.2976
R² = 0.9999
BEC = 0.321 ppb
LoD = 0.2136 ppb

55Mn (KED AGD)



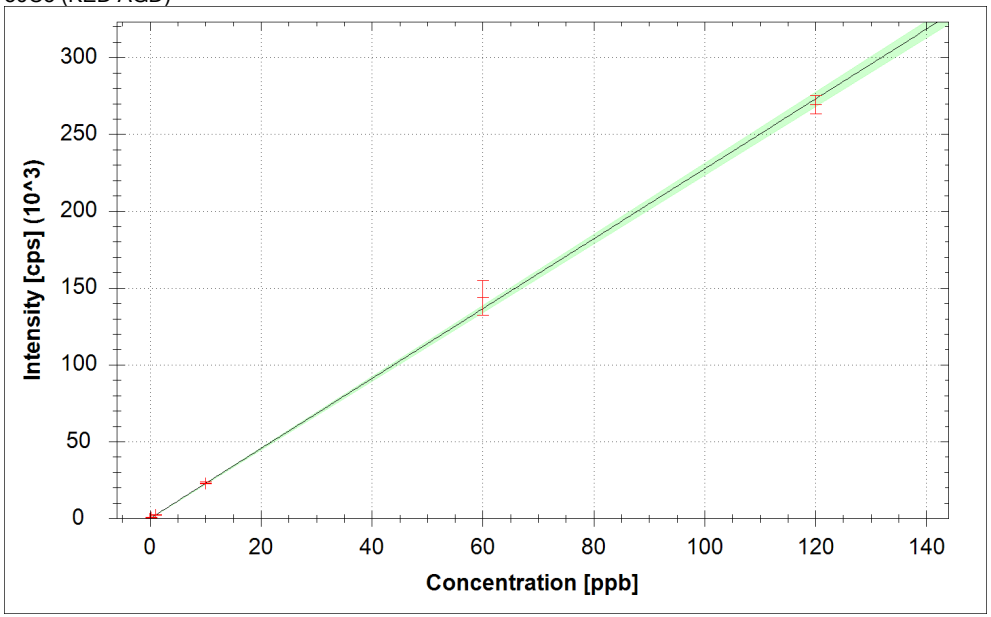
f(x) = 264.0187*x + 55.8917
R² = 0.9995
BEC = 0.212 ppb
LoD = 0.1148 ppb

57Fe (KED AGD)



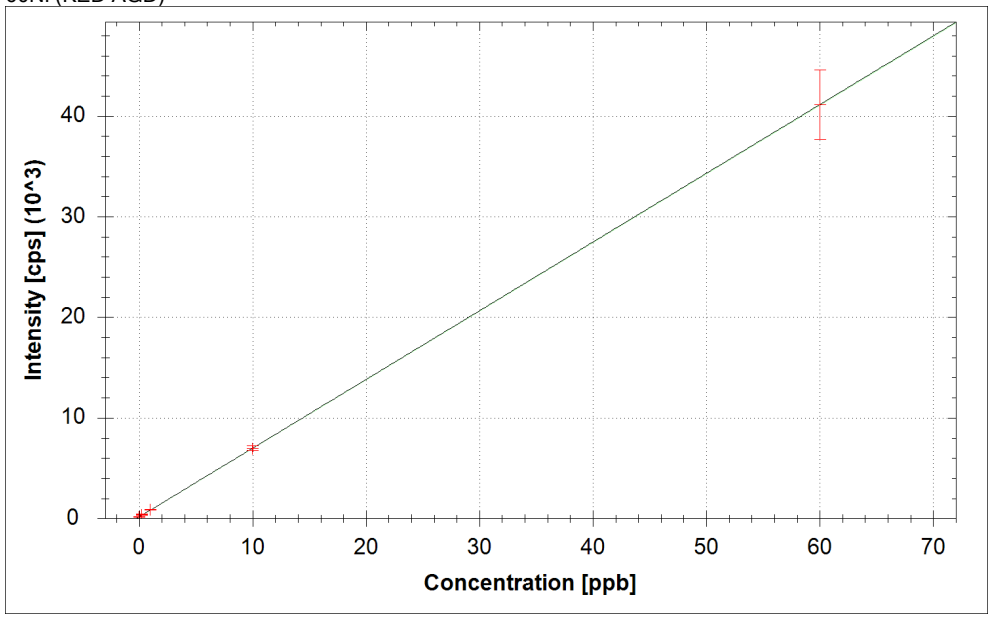
f(x) = 19.6261*x + 67.8442
R² = 0.9991
BEC = 3.457 ppb
LoD = 6.5307 ppb

59Co (KED AGD)



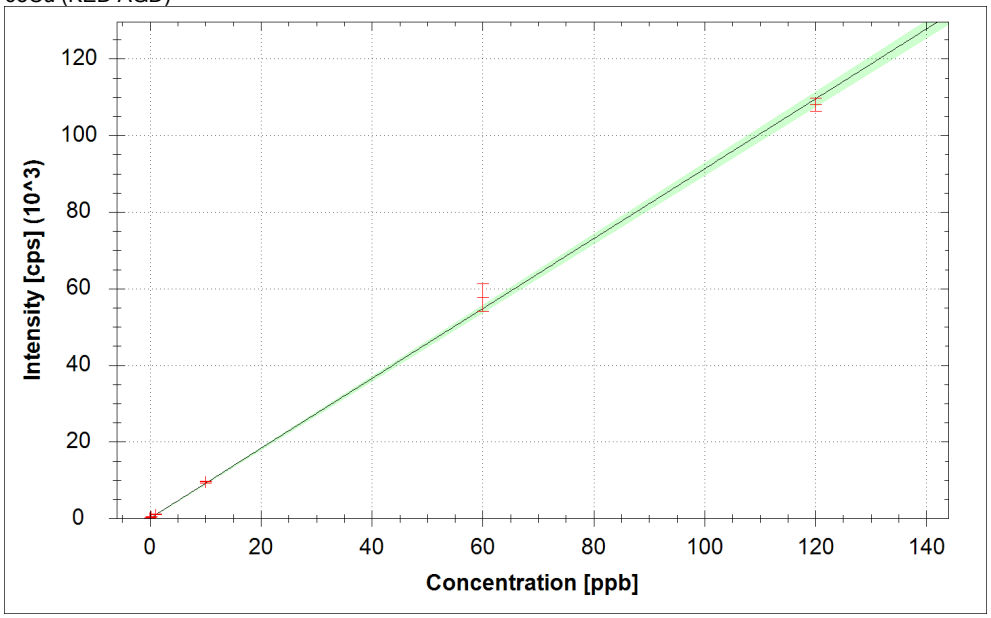
f(x) = 2273.8492*x + 15.5050
R² = 0.9989
BEC = 0.007 ppb
LoD = 0.0043 ppb

60Ni (KED AGD)



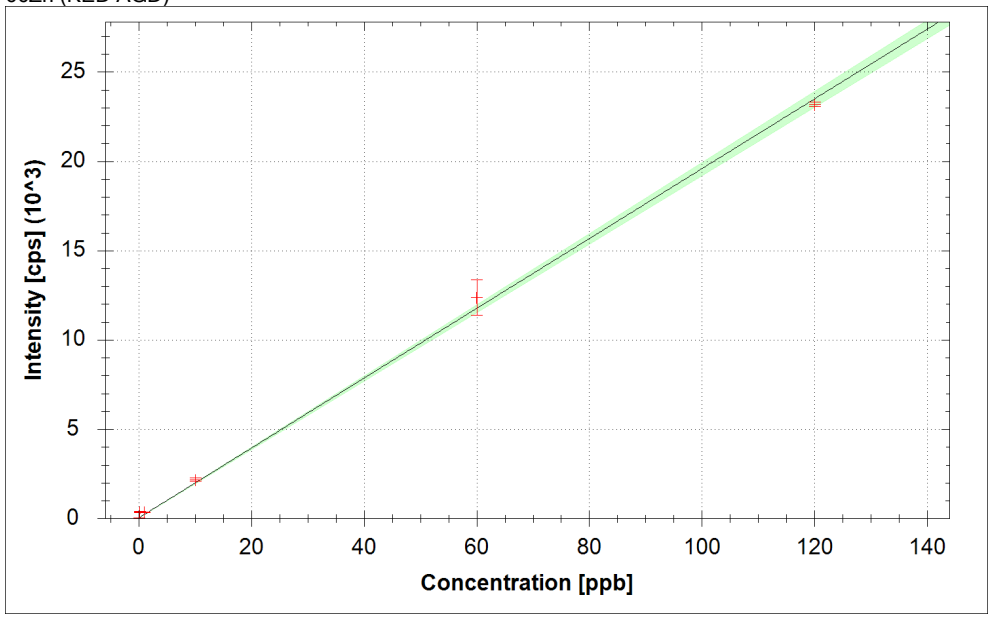
f(x) = 683.0146*x + 150.5745
R² = 1.0000
BEC = 0.220 ppb
LoD = 0.0646 ppb

65Cu (KED AGD)



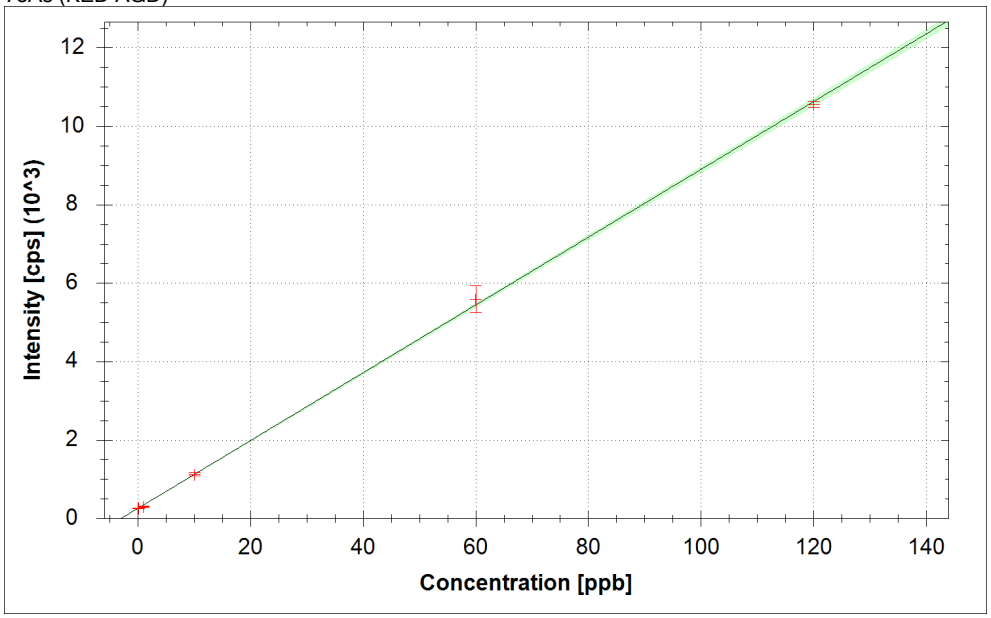
f(x) = 912.0702*x + 47.0740
R² = 0.9989
BEC = 0.052 ppb
LoD = 0.0996 ppb

66Zn (KED AGD)



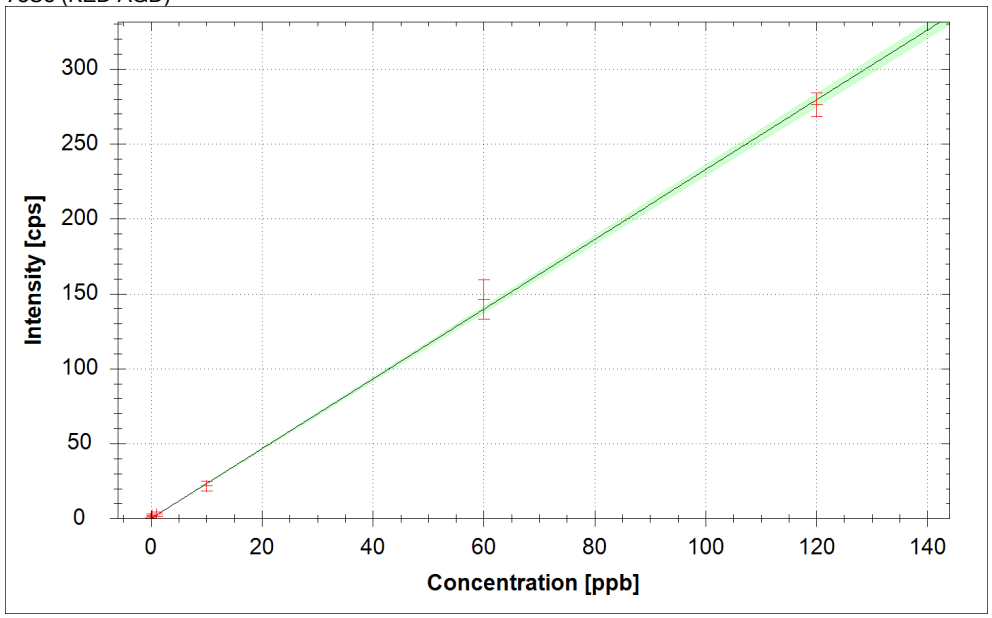
f(x) = 195.3933*x + 35.9462
R² = 0.9987
BEC = 0.184 ppb
LoD = 0.1276 ppb

75As (KED AGD)



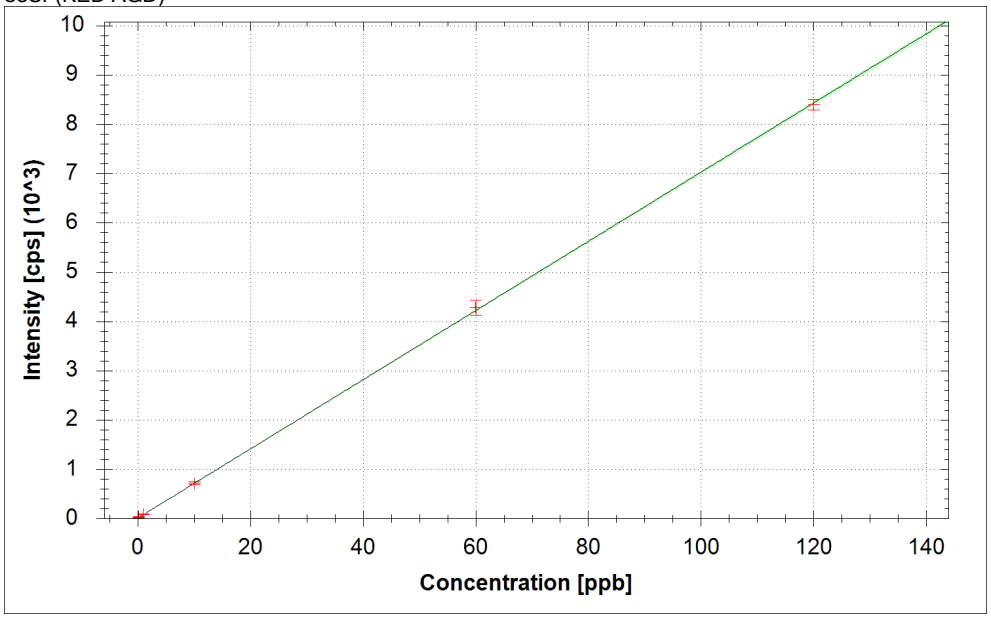
f(x) = 86.3729*x + 256.6424
R² = 0.9997
BEC = 2.971 ppb
LoD = 0.3542 ppb

78Se (KED AGD)



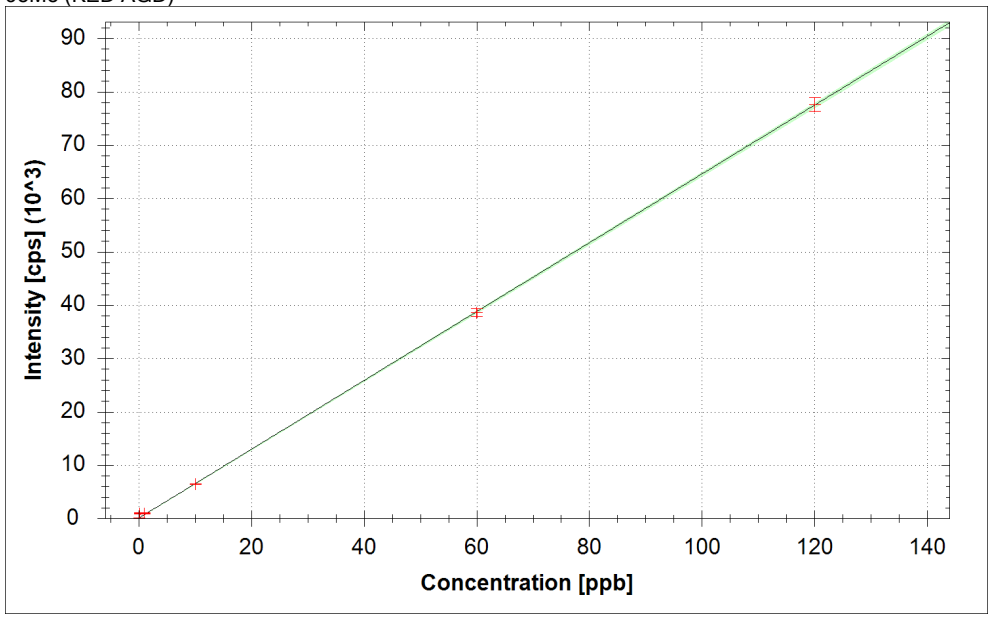
f(x) = 2.3273*x + 0.0077
R² = 0.9991
BEC = 0.003 ppb
LoD = 0.2997 ppb

88Sr (KED AGD)



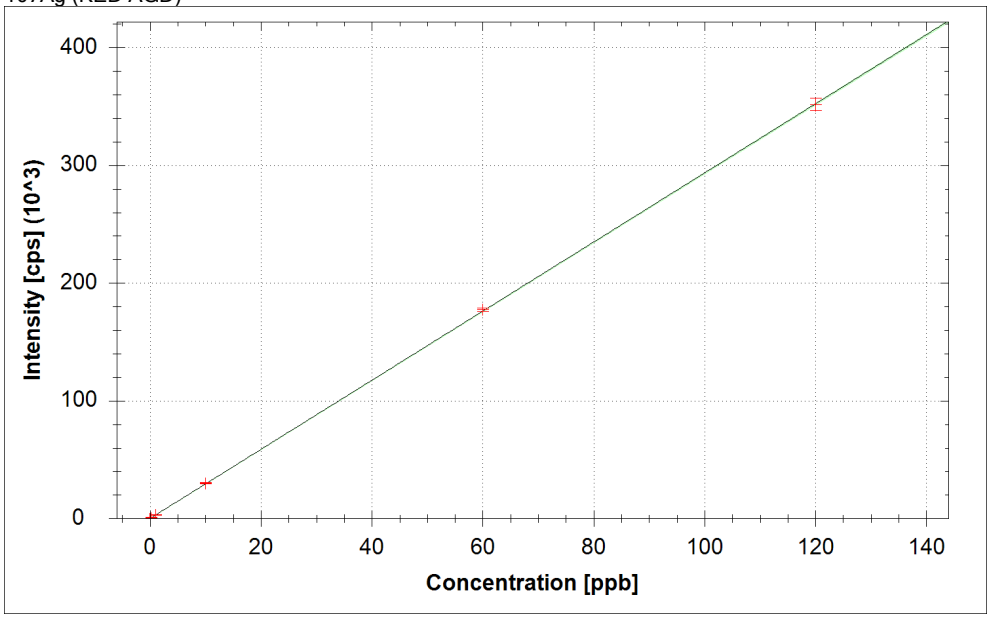
f(x) = 70.1448*x + 9.0264
R² = 0.9999
BEC = 0.129 ppb
LoD = 0.0520 ppb

95Mo (KED AGD)



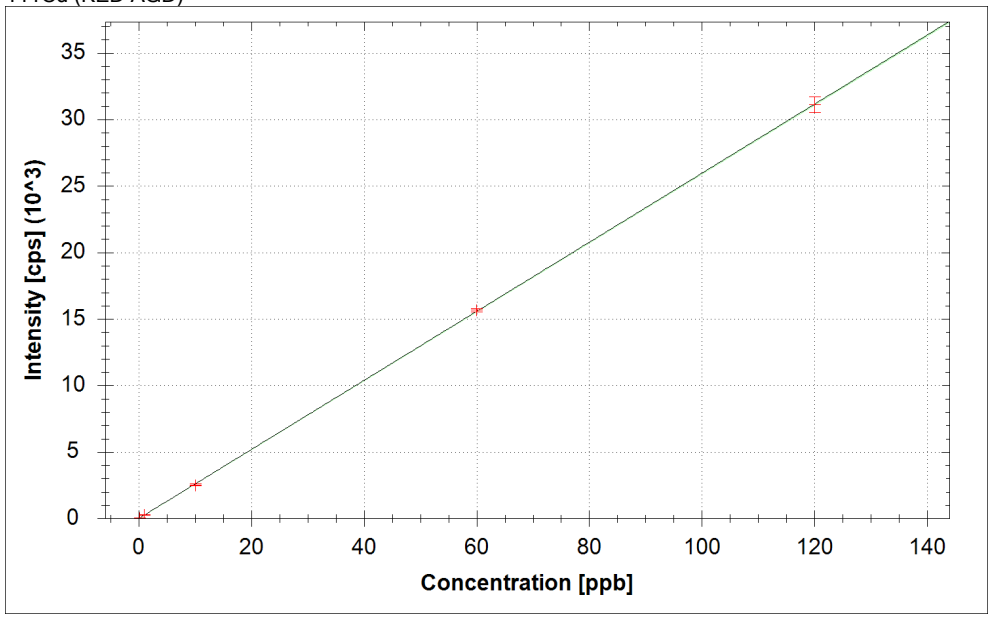
f(x) = 644.7844*x + 75.6265
R² = 0.9999
BEC = 0.117 ppb
LoD = 0.0169 ppb

107Ag (KED AGD)



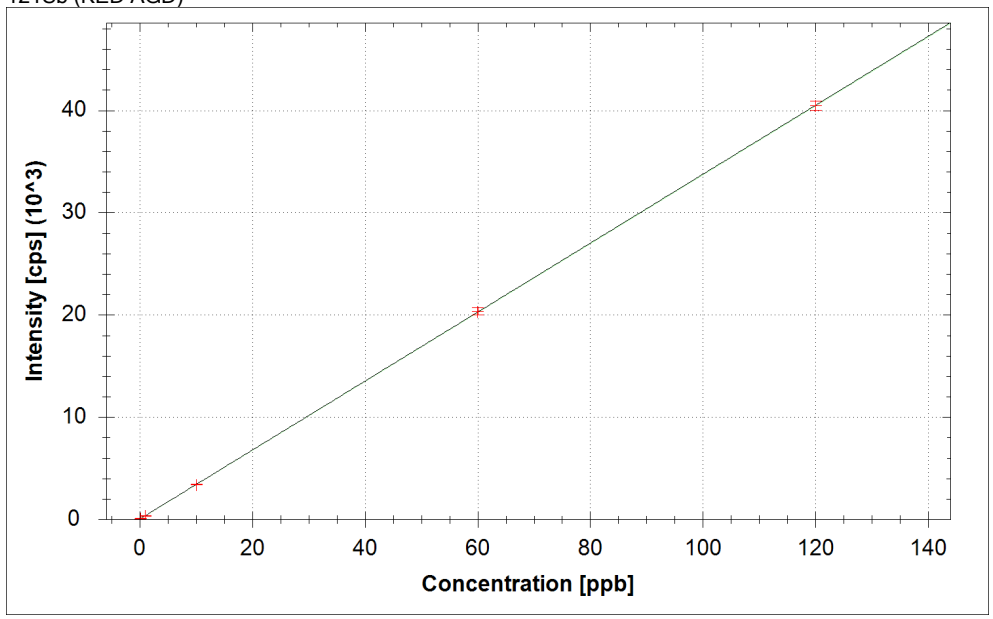
f(x) = 2934.7394*x + 16.6146
R² = 1.0000
BEC = 0.006 ppb
LoD = 0.0055 ppb

111Cd (KED AGD)



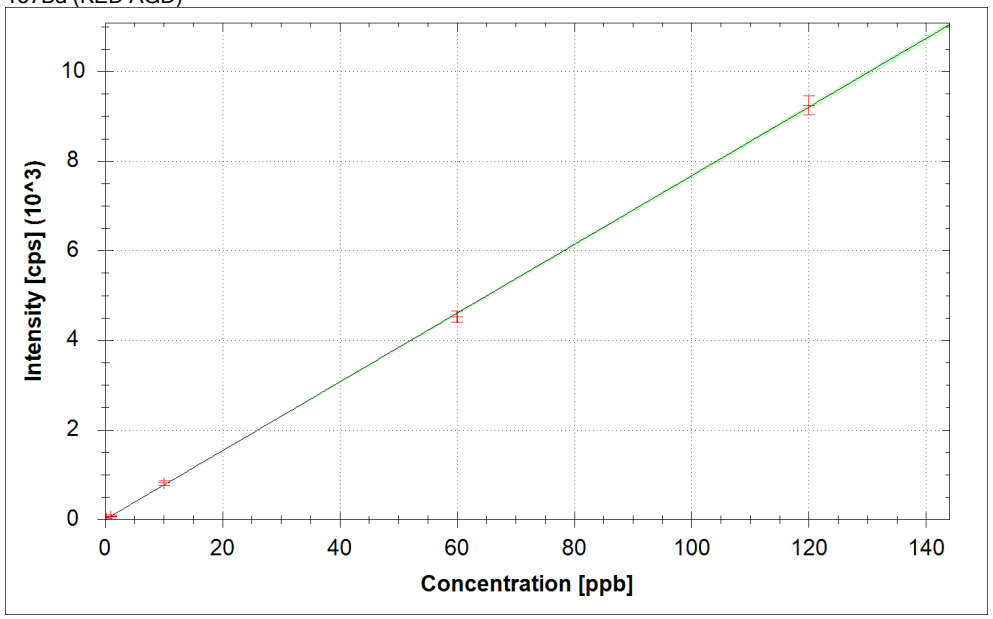
f(x) = 259.5562*x + 0.4293
R² = 1.0000
BEC = 0.002 ppb
LoD = 0.0086 ppb

121Sb (KED AGD)



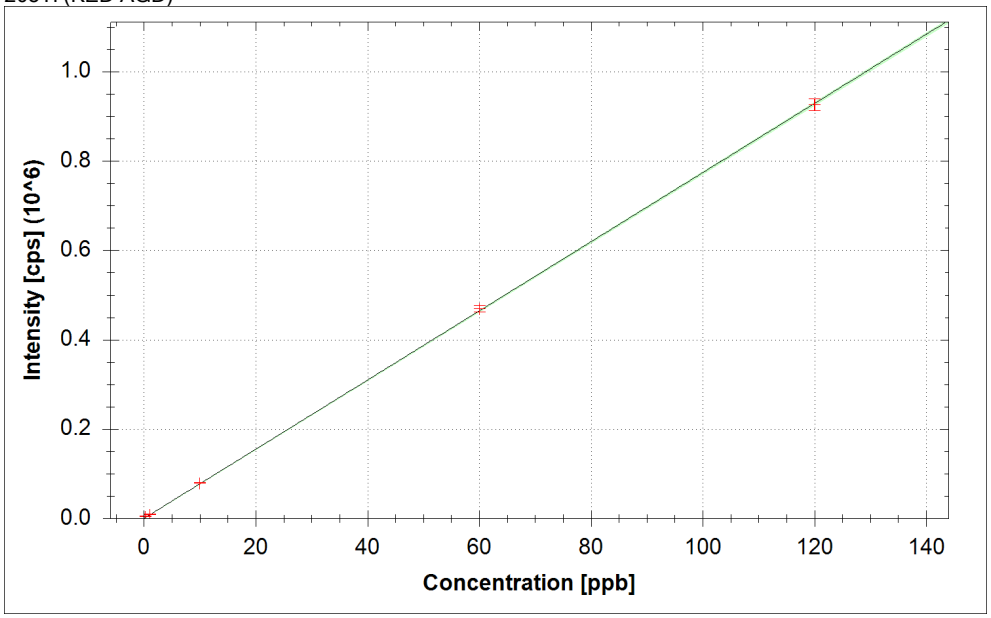
f(x) = 337.0401*x + 50.9932
R² = 1.0000
BEC = 0.151 ppb
LoD = 0.1080 ppb

137Ba (KED AGD)



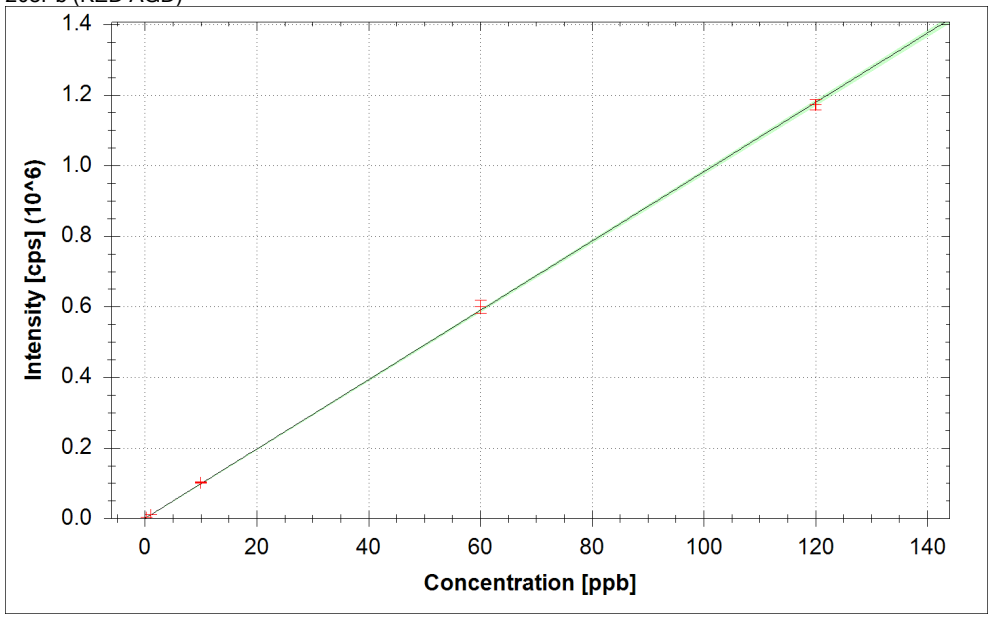
f(x) = 76.6754*x
R² = 0.9999
BEC = 0.000 ppb
LoD = 0.0000 ppb

205Tl (KED AGD)



f(x) = 7735.4273*x + 168.1260
R² = 0.9999
BEC = 0.022 ppb
LoD = 0.0228 ppb

208Pb (KED AGD)



f(x) = 9819.3637*x + 117.3458
R² = 0.9999
BEC = 0.012 ppb
LoD = 0.0046 ppb

Standards:

Analysis Index:	4
Analysis Name:	x0.2/20 Cal
Analysis Type:	STD
Analysis Started at:	6/26/2024 10:59:28 AM
Total Dilution Factor	50000
Rack	0
Vial	2

Standards:

Analysis Index:	5
Analysis Name:	x1/100 Cal
Analysis Type:	STD
Analysis Started at:	6/26/2024 11:04:06 AM
Total Dilution Factor	10000
Rack	0
Vial	3

Standards:

Analysis Index: 6
Analysis Name: 10/1000 Cal
Analysis Type: STD
Analysis Started at: 6/26/2024 11:08:44 AM
Total Dilution Factor 1000
Rack 0
Vial 4

Category	Concentration average	Concentration RSD	Standard Concentration	Standard Relative Difference
6Li (STD AGD)	98.296 %	1.6 %		0.000 %
6Li (KED AGD)	108.589 %	2.5 %		0.000 %
9Be (STD AGD)	10.320 ppb	1.0 %	10.000 ppb	3.204 %
23Na (KED AGD)	964.379 ppb	3.2 %	1,000.000 ppb	3.562 %
24Mg (KED AGD)	968.630 ppb	3.1 %	1,000.000 ppb	3.137 %
27Al (KED AGD)	10.812 ppb	14.7 %	10.000 ppb	8.125 %
39K (KED AGD)	963.195 ppb	8.4 %	1,000.000 ppb	3.680 %
44Ca (KED AGD)	1,159.469 ppb	3.3 %	1,000.000 ppb	15.947 %
45Sc (STD AGD)	102.798 %	0.2 %		0.000 %
51V (KED AGD)	9.540 ppb	2.9 %	10.000 ppb	4.605 %
52Cr (KED AGD)	9.761 ppb	5.6 %	10.000 ppb	2.394 %
55Mn (KED AGD)	10.207 ppb	3.9 %	10.000 ppb	2.071 %
57Fe (KED AGD)	998.288 ppb	4.5 %	1,000.000 ppb	0.171 %
59Co (KED AGD)	10.136 ppb	3.4 %	10.000 ppb	1.359 %
60Ni (KED AGD)	9.995 ppb	3.5 %	10.000 ppb	0.049 %
65Cu (KED AGD)	10.332 ppb	2.8 %	10.000 ppb	3.317 %
66Zn (KED AGD)	10.935 ppb	3.8 %	10.000 ppb	9.347 %
74Ge (KED AGD)	105.460 %	5.1 %		0.000 %
75As (KED AGD)	10.016 ppb	4.5 %	10.000 ppb	0.158 %
78Se (KED AGD)	9.260 ppb	15.1 %	10.000 ppb	7.402 %
88Sr (KED AGD)	10.112 ppb	3.6 %	10.000 ppb	1.117 %
95Mo (KED AGD)	9.885 ppb	1.2 %	10.000 ppb	1.147 %
103Rh (KED AGD)	99.821 %	1.0 %		0.000 %
107Ag (KED AGD)	10.117 ppb	1.9 %	10.000 ppb	1.168 %
111Cd (KED AGD)	9.708 ppb	2.3 %	10.000 ppb	2.916 %
115In (KED AGD)	98.543 %	1.9 %		0.000 %
121Sb (KED AGD)	9.973 ppb	1.3 %	10.000 ppb	0.266 %
137Ba (KED AGD)	10.590 ppb	6.2 %	10.000 ppb	5.904 %
159Tb (KED AGD)	104.520 %	3.3 %		0.000 %
175Lu (KED AGD)	102.422 %	1.7 %		0.000 %
205Tl (KED AGD)	10.201 ppb	1.2 %	10.000 ppb	2.014 %
208Pb (KED AGD)	10.326 ppb	1.3 %	10.000 ppb	3.258 %

Standards:

Analysis Index: 7
Analysis Name: 60/6000 Cal
Analysis Type: STD
Analysis Started at: 6/26/2024 11:13:23 AM
Total Dilution Factor 166.6666666
Rack 0
Vial 5

Category	Concentration average	Concentration RSD	Standard Concentration	Standard Relative Difference
6Li (STD AGD)	96.896 %	1.4 %		0.000 %
6Li (KED AGD)	98.202 %	3.4 %		0.000 %
9Be (STD AGD)	60.847 ppb	0.6 %	60.000 ppb	1.412 %
23Na (KED AGD)	6,295.025 ppb	4.3 %	6,000.000 ppb	4.917 %
24Mg (KED AGD)	6,137.426 ppb	3.2 %	6,000.000 ppb	2.290 %
27Al (KED AGD)	61.573 ppb	7.3 %	60.000 ppb	2.622 %
39K (KED AGD)	6,422.537 ppb	6.4 %	6,000.000 ppb	7.042 %
44Ca (KED AGD)	6,231.092 ppb	7.2 %	6,000.000 ppb	3.852 %
45Sc (STD AGD)	112.973 %	0.5 %		0.000 %
51V (KED AGD)	62.116 ppb	4.6 %	60.000 ppb	3.527 %
52Cr (KED AGD)	60.666 ppb	7.3 %	60.000 ppb	1.109 %
55Mn (KED AGD)	62.269 ppb	9.6 %	60.000 ppb	3.782 %
57Fe (KED AGD)	6,293.521 ppb	6.6 %	6,000.000 ppb	4.892 %
59Co (KED AGD)	63.172 ppb	7.9 %	60.000 ppb	5.287 %
60Ni (KED AGD)	60.000 ppb	8.4 %	60.000 ppb	0.000 %
65Cu (KED AGD)	63.179 ppb	6.2 %	60.000 ppb	5.298 %
66Zn (KED AGD)	63.049 ppb	8.1 %	60.000 ppb	5.082 %
74Ge (KED AGD)	102.862 %	7.4 %		0.000 %
75As (KED AGD)	61.706 ppb	6.4 %	60.000 ppb	2.843 %
78Se (KED AGD)	62.793 ppb	9.0 %	60.000 ppb	4.654 %
88Sr (KED AGD)	60.832 ppb	3.5 %	60.000 ppb	1.386 %
95Mo (KED AGD)	59.644 ppb	2.0 %	60.000 ppb	0.593 %
103Rh (KED AGD)	101.249 %	1.7 %		0.000 %
107Ag (KED AGD)	60.439 ppb	0.9 %	60.000 ppb	0.732 %
111Cd (KED AGD)	60.278 ppb	0.9 %	60.000 ppb	0.464 %
115In (KED AGD)	101.898 %	0.6 %		0.000 %
121Sb (KED AGD)	60.181 ppb	1.7 %	60.000 ppb	0.301 %
137Ba (KED AGD)	59.017 ppb	2.8 %	60.000 ppb	1.638 %
159Tb (KED AGD)	103.908 %	3.9 %		0.000 %
175Lu (KED AGD)	105.267 %	4.4 %		0.000 %
205Tl (KED AGD)	60.612 ppb	1.5 %	60.000 ppb	1.019 %
208Pb (KED AGD)	61.140 ppb	3.1 %	60.000 ppb	1.900 %

Alpha ICPMSQ Data with SRD

6/27/2024 4:21:36 AM

Standards:

Analysis Index: 8
Analysis Name: 120/12000 Cal
Analysis Type: STD
Analysis Started at: 6/26/2024 11:18:03 AM
Total Dilution Factor 83.33333333
Rack 0
Vial 6

Category	Concentration average	Concentration RSD	Standard Concentration	Standard Relative Difference
6Li (STD AGD)	96.479 %	2.5 %		0.000 %
6Li (KED AGD)	104.594 %	1.4 %		0.000 %
9Be (STD AGD)	119.549 ppb	0.8 %	120.000 ppb	0.376 %
23Na (KED AGD)	11,855.537 ppb	3.6 %	12,000.000 ppb	1.204 %
24Mg (KED AGD)	11,933.920 ppb	2.5 %	12,000.000 ppb	0.551 %
27Al (KED AGD)	119.136 ppb	3.5 %	120.000 ppb	0.720 %
39K (KED AGD)	11,791.740 ppb	3.5 %	12,000.000 ppb	1.735 %
44Ca (KED AGD)	11,869.497 ppb	2.0 %	12,000.000 ppb	1.088 %
45Sc (STD AGD)	117.935 %	0.6 %		0.000 %
51V (KED AGD)	118.981 ppb	3.7 %	120.000 ppb	0.849 %
52Cr (KED AGD)	119.687 ppb	1.1 %	120.000 ppb	0.261 %
55Mn (KED AGD)	118.848 ppb	1.2 %	120.000 ppb	0.960 %
57Fe (KED AGD)	11,853.295 ppb	1.2 %	12,000.000 ppb	1.223 %
59Co (KED AGD)	118.403 ppb	2.3 %	120.000 ppb	1.331 %
60Ni (KED AGD)	168.209 ppb	1.6 %	120.000 ppb	40.175 %
65Cu (KED AGD)	118.382 ppb	1.6 %	120.000 ppb	1.349 %
66Zn (KED AGD)	118.390 ppb	0.5 %	120.000 ppb	1.342 %
74Ge (KED AGD)	108.130 %	0.8 %		0.000 %
75As (KED AGD)	119.151 ppb	0.7 %	120.000 ppb	0.708 %
78Se (KED AGD)	118.663 ppb	2.8 %	120.000 ppb	1.114 %
88Sr (KED AGD)	119.574 ppb	1.2 %	120.000 ppb	0.355 %
95Mo (KED AGD)	120.183 ppb	1.7 %	120.000 ppb	0.153 %
103Rh (KED AGD)	102.481 %	2.3 %		0.000 %
107Ag (KED AGD)	119.770 ppb	1.5 %	120.000 ppb	0.191 %
111Cd (KED AGD)	119.885 ppb	1.9 %	120.000 ppb	0.096 %
115In (KED AGD)	104.302 %	2.0 %		0.000 %
121Sb (KED AGD)	119.913 ppb	1.1 %	120.000 ppb	0.073 %
137Ba (KED AGD)	120.442 ppb	2.3 %	120.000 ppb	0.368 %
159Tb (KED AGD)	108.710 %	3.1 %		0.000 %
175Lu (KED AGD)	109.426 %	2.9 %		0.000 %
205Tl (KED AGD)	119.676 ppb	1.4 %	120.000 ppb	0.270 %
208Pb (KED AGD)	119.402 ppb	1.2 %	120.000 ppb	0.498 %

Standards:

Analysis Index: 9
Analysis Name: 0.2/20 Cal
Analysis Type: STD
Analysis Started at: 6/26/2024 11:23:38 AM
Total Dilution Factor 50000
Rack 0
Vial 2

Category	Concentration average	Concentration RSD	Standard Concentration	Standard Relative Difference
6Li (STD AGD)	96.476 %	2.4 %		0.000 %
6Li (KED AGD)	102.463 %	1.2 %		0.000 %
9Be (STD AGD)	0.205 ppb	6.6 %	0.200 ppb	2.340 %
23Na (KED AGD)	8.022 ppb	95.6 %	20.000 ppb	59.891 %
24Mg (KED AGD)	21.827 ppb	29.9 %	20.000 ppb	9.133 %
27Al (KED AGD)	0.997 ppb	28.7 %	0.200 ppb	398.740 %
39K (KED AGD)	18.085 ppb	10.8 %	20.000 ppb	9.573 %
44Ca (KED AGD)	211.579 ppb	15.5 %	20.000 ppb	957.897 %
45Sc (STD AGD)	97.137 %	1.2 %		0.000 %
51V (KED AGD)	0.122 ppb	22.5 %	0.200 ppb	38.985 %
52Cr (KED AGD)	0.263 ppb	16.3 %	0.200 ppb	31.263 %
55Mn (KED AGD)	0.181 ppb	54.6 %	0.200 ppb	9.668 %
57Fe (KED AGD)	31.324 ppb	4.8 %	20.000 ppb	56.622 %
59Co (KED AGD)	0.242 ppb	15.3 %	0.200 ppb	20.779 %
60Ni (KED AGD)	0.284 ppb	35.1 %	0.200 ppb	42.023 %
65Cu (KED AGD)	0.382 ppb	22.4 %	0.200 ppb	90.760 %
66Zn (KED AGD)	1.595 ppb	10.4 %	0.200 ppb	697.382 %
74Ge (KED AGD)	100.461 %	3.7 %		0.000 %
75As (KED AGD)	0.026 ppb	535.9 %	0.200 ppb	86.979 %
78Se (KED AGD)	0.925 ppb	39.0 %	0.200 ppb	362.731 %
88Sr (KED AGD)	0.303 ppb	8.3 %	0.200 ppb	51.573 %
95Mo (KED AGD)	1.290 ppb	14.0 %	0.200 ppb	545.011 %
103Rh (KED AGD)	102.784 %	2.0 %		0.000 %
107Ag (KED AGD)	0.207 ppb	14.0 %	0.200 ppb	3.403 %
111Cd (KED AGD)	0.221 ppb	3.2 %	0.200 ppb	10.530 %
115In (KED AGD)	99.684 %	4.3 %		0.000 %
121Sb (KED AGD)	0.201 ppb	4.4 %	0.200 ppb	0.631 %
137Ba (KED AGD)	0.317 ppb	19.5 %	0.200 ppb	58.733 %
159Tb (KED AGD)	106.724 %	0.8 %		0.000 %
175Lu (KED AGD)	104.964 %	2.1 %		0.000 %
205Tl (KED AGD)	0.558 ppb	18.0 %	0.200 ppb	179.203 %
208Pb (KED AGD)	0.250 ppb	6.4 %	0.200 ppb	25.218 %

Alpha ICPMSQ Data with SRD

6/27/2024 4:21:36 AM

Standards:

Analysis Index: 10
Analysis Name: 1/100 Cal
Analysis Type: STD
Analysis Started at: 6/26/2024 11:28:16 AM
Total Dilution Factor 10000
Rack 0
Vial 3

Category	Concentration average	Concentration RSD	Standard Concentration	Standard Relative Difference
6Li (STD AGD)	95.264 %	1.9 %		0.000 %
6Li (KED AGD)	98.003 %	4.3 %		0.000 %
9Be (STD AGD)	1.061 ppb	3.6 %	1.000 ppb	6.101 %
23Na (KED AGD)	92.619 ppb	6.0 %	100.000 ppb	7.381 %
24Mg (KED AGD)	97.400 ppb	9.6 %	100.000 ppb	2.600 %
27Al (KED AGD)	2.025 ppb	15.4 %	1.000 ppb	102.455 %
39K (KED AGD)	107.378 ppb	13.0 %	100.000 ppb	7.378 %
44Ca (KED AGD)	261.850 ppb	3.9 %	100.000 ppb	161.850 %
45Sc (STD AGD)	97.052 %	0.3 %		0.000 %
51V (KED AGD)	0.946 ppb	23.3 %	1.000 ppb	5.377 %
52Cr (KED AGD)	1.050 ppb	7.0 %	1.000 ppb	5.031 %
55Mn (KED AGD)	0.993 ppb	3.2 %	1.000 ppb	0.744 %
57Fe (KED AGD)	108.168 ppb	2.6 %	100.000 ppb	8.168 %
59Co (KED AGD)	0.978 ppb	5.9 %	1.000 ppb	2.195 %
60Ni (KED AGD)	1.044 ppb	2.7 %	1.000 ppb	4.356 %
65Cu (KED AGD)	1.102 ppb	6.1 %	1.000 ppb	10.174 %
66Zn (KED AGD)	1.608 ppb	5.1 %	1.000 ppb	60.754 %
74Ge (KED AGD)	102.592 %	1.6 %		0.000 %
75As (KED AGD)	0.474 ppb	33.9 %	1.000 ppb	52.609 %
78Se (KED AGD)	1.181 ppb	49.7 %	1.000 ppb	18.054 %
88Sr (KED AGD)	1.098 ppb	4.5 %	1.000 ppb	9.785 %
95Mo (KED AGD)	1.327 ppb	10.0 %	1.000 ppb	32.650 %
103Rh (KED AGD)	101.139 %	1.5 %		0.000 %
107Ag (KED AGD)	1.024 ppb	4.9 %	1.000 ppb	2.390 %
111Cd (KED AGD)	1.052 ppb	8.9 %	1.000 ppb	5.177 %
115In (KED AGD)	99.302 %	6.5 %		0.000 %
121Sb (KED AGD)	0.897 ppb	10.4 %	1.000 ppb	10.310 %
137Ba (KED AGD)	0.973 ppb	30.0 %	1.000 ppb	2.723 %
159Tb (KED AGD)	105.559 %	3.6 %		0.000 %
175Lu (KED AGD)	105.125 %	4.2 %		0.000 %
205Tl (KED AGD)	1.130 ppb	3.4 %	1.000 ppb	13.002 %
208Pb (KED AGD)	1.068 ppb	4.8 %	1.000 ppb	6.813 %

Standards:

Analysis Index:	11
Analysis Name:	x1/100 Cal
Analysis Type:	STD
Analysis Started at:	6/26/2024 11:33:37 AM
Total Dilution Factor	10000
Rack	0
Vial	3

Standards:

Analysis Index:	12
Analysis Name:	x1/100 Cal
Analysis Type:	STD
Analysis Started at:	6/26/2024 11:41:53 AM
Total Dilution Factor	10000
Rack	4
Vial	3

Standards:

Analysis Index:	13
Analysis Name:	x1/100 Cal
Analysis Type:	STD
Analysis Started at:	6/26/2024 11:49:33 AM
Total Dilution Factor	10000
Rack	0
Vial	3

Alpha ICPMSQ Data with SRD

6/27/2024 4:21:36 AM

Analysis index:	1	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	Rinse	Rack	0		
Analysis started at:	6/26/2024 10:45:32 AM	Vial	1		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	102.766 %	103.262 %	-0.004 ppb	-1.478 ppb	0.516 ppb	0.686 ppb	-7.823 ppb	28.496 ppb	99.469 %
Concentration per Run 1	105.211 %	104.661 %	0.002 ppb	-1.938 ppb	-0.524 ppb	0.328 ppb	-11.180 ppb	25.674 ppb	99.973 %
Concentration per Run 2	102.186 %	103.862 %	-0.008 ppb	-7.278 ppb	-0.049 ppb	0.527 ppb	-18.837 ppb	45.337 ppb	99.790 %
Concentration per Run 3	100.903 %	101.265 %	-0.006 ppb	4.781 ppb	2.120 ppb	1.204 ppb	6.550 ppb	14.478 ppb	98.643 %
Concentration RSD	2.2 %	1.7 %	127.6 %	408.8 %	273.4 %	67.0 %	166.5 %	54.8 %	0.7 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	-0.049 ppb	0.026 ppb	0.218 ppb	3.343 ppb	0.005 ppb	0.743 ppb	1.417 ppb	2.968 ppb	100.999 %
Concentration per Run 1	-0.055 ppb	0.083 ppb	0.134 ppb	4.526 ppb	0.010 ppb	0.708 ppb	1.278 ppb	3.017 ppb	101.287 %
Concentration per Run 2	-0.021 ppb	-0.029 ppb	0.230 ppb	2.853 ppb	-0.007 ppb	0.892 ppb	1.581 ppb	3.076 ppb	94.571 %
Concentration per Run 3	-0.072 ppb	0.026 ppb	0.291 ppb	2.651 ppb	0.013 ppb	0.627 ppb	1.392 ppb	2.810 ppb	107.137 %
Concentration RSD	53.0 %	212.1 %	36.2 %	30.8 %	197.1 %	18.3 %	10.8 %	4.7 %	6.2 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.389 ppb	0.142 ppb	0.029 ppb	0.047 ppb	101.234 %	0.005 ppb	0.000 ppb	100.835 %	0.133 ppb
Concentration per Run 1	0.515 ppb	-0.046 ppb	-0.003 ppb	0.086 ppb	101.636 %	0.009 ppb	-0.002 ppb	102.261 %	0.155 ppb
Concentration per Run 2	0.440 ppb	-0.012 ppb	0.063 ppb	0.072 ppb	99.818 %	0.001 ppb	-0.002 ppb	99.862 %	0.138 ppb
Concentration per Run 3	0.213 ppb	0.486 ppb	0.027 ppb	-0.017 ppb	102.248 %	0.004 ppb	0.003 ppb	100.382 %	0.107 ppb
Concentration RSD	40.4 %	209.3 %	114.0 %	119.9 %	1.2 %	80.2 %	7,084.8 %	1.3 %	18.5 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	0.184 ppb	101.825 %	103.153 %	0.013 ppb	0.186 ppb
Concentration per Run 1	0.253 ppb	100.144 %	102.987 %	0.000 ppb	0.191 ppb
Concentration per Run 2	0.218 ppb	98.860 %	99.567 %	0.020 ppb	0.193 ppb
Concentration per Run 3	0.081 ppb	106.472 %	106.906 %	0.019 ppb	0.175 ppb
Concentration RSD	49.3 %	4.0 %	3.6 %	86.5 %	5.4 %

Alpha ICPMSQ Data with SRD

6/27/2024 4:21:36 AM

Analysis index:	2	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	CAL LOT #M24-1045	Rack	0		
Analysis started at:	6/26/2024 10:50:09 AM	Vial	1		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	101.982 %	99.933 %	-0.004 ppb	11.911 ppb	2.990 ppb	1.203 ppb	7.290 ppb	13.960 ppb	100.185 %
Concentration per Run 1	104.103 %	95.872 %	-0.010 ppb	15.538 ppb	2.872 ppb	1.345 ppb	4.951 ppb	7.277 ppb	100.631 %
Concentration per Run 2	102.475 %	103.462 %	0.001 ppb	7.239 ppb	2.538 ppb	0.460 ppb	5.104 ppb	28.759 ppb	100.306 %
Concentration per Run 3	99.369 %	100.466 %	-0.003 ppb	12.955 ppb	3.560 ppb	1.806 ppb	11.815 ppb	5.844 ppb	99.618 %
Concentration RSD	2.4 %	3.8 %	140.6 %	35.7 %	17.4 %	56.8 %	53.8 %	92.0 %	0.5 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	-0.027 ppb	0.058 ppb	0.318 ppb	4.586 ppb	0.023 ppb	0.660 ppb	1.350 ppb	2.971 ppb	99.879 %
Concentration per Run 1	-0.003 ppb	0.064 ppb	0.314 ppb	3.961 ppb	0.024 ppb	0.693 ppb	1.354 ppb	3.242 ppb	96.261 %
Concentration per Run 2	-0.024 ppb	-0.003 ppb	0.401 ppb	4.126 ppb	0.007 ppb	0.557 ppb	1.219 ppb	2.832 ppb	102.898 %
Concentration per Run 3	-0.055 ppb	0.112 ppb	0.241 ppb	5.671 ppb	0.037 ppb	0.732 ppb	1.476 ppb	2.838 ppb	100.477 %
Concentration RSD	96.7 %	100.4 %	25.2 %	20.6 %	65.2 %	13.9 %	9.5 %	7.9 %	3.4 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.075 ppb	0.072 ppb	0.023 ppb	-0.002 ppb	101.130 %	0.001 ppb	-0.002 ppb	99.513 %	0.032 ppb
Concentration per Run 1	0.365 ppb	0.249 ppb	0.040 ppb	-0.032 ppb	97.022 %	0.001 ppb	-0.002 ppb	92.051 %	0.024 ppb
Concentration per Run 2	0.047 ppb	-0.012 ppb	0.015 ppb	0.023 ppb	103.579 %	0.000 ppb	-0.002 ppb	102.903 %	0.075 ppb
Concentration per Run 3	-0.189 ppb	-0.021 ppb	0.014 ppb	0.004 ppb	102.788 %	0.003 ppb	-0.002 ppb	103.585 %	-0.002 ppb
Concentration RSD	372.9 %	212.2 %	66.0 %	1,677.1 %	3.5 %	111.4 %	0.0 %	6.5 %	122.7 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	0.082 ppb	101.384 %	101.812 %	0.005 ppb	0.198 ppb
Concentration per Run 1	0.000 ppb	96.623 %	93.463 %	-0.003 ppb	0.208 ppb
Concentration per Run 2	0.124 ppb	103.744 %	105.404 %	0.009 ppb	0.195 ppb
Concentration per Run 3	0.122 ppb	103.784 %	106.570 %	0.009 ppb	0.190 ppb
Concentration RSD	86.6 %	4.1 %	7.1 %	135.5 %	4.7 %

Alpha ICPMSQ Data with SRD

6/27/2024 4:21:36 AM

Analysis index:	3	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	Blank EJF ICPMSQ	Rack	4		
Analysis started at:	6/26/2024 10:54:46 AM	Vial	49		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	100.000 %	100.000 %	0.000 ppb	0.000 ppb	0.000 ppb	0.000 ppb	0.000 ppb	0.000 ppb	100.000 %
Concentration per Run	100.000 %	100.000 %	0.000 ppb	0.000 ppb	0.000 ppb	0.000 ppb	0.000 ppb	0.000 ppb	100.000 %
Concentration RSD	0.0 %	0.0 %	0.4 %	0.0 %	0.5 %	0.2 %	0.1 %	0.4 %	0.0 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.000 ppb	0.000 ppb	0.000 ppb	0.000 ppb	0.000 ppb	0.000 ppb	0.000 ppb	0.000 ppb	100.000 %
Concentration per Run	0.000 ppb	0.000 ppb	0.000 ppb	0.000 ppb	0.000 ppb	0.000 ppb	0.000 ppb	0.000 ppb	100.000 %
Concentration RSD	0.4 %	0.2 %	0.2 %	0.6 %	0.2 %	0.1 %	0.6 %	0.2 %	0.1 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.000 ppb	0.000 ppb	0.000 ppb	0.000 ppb	100.000 %	0.000 ppb	0.000 ppb	100.000 %	0.000 ppb
Concentration per Run	0.000 ppb	0.000 ppb	0.000 ppb	0.000 ppb	100.000 %	0.000 ppb	0.000 ppb	100.000 %	0.000 ppb
Concentration RSD	0.0 %	30.3 %	0.1 %	0.0 %	0.0 %	0.3 %	1.7 %	0.1 %	0.2 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	0.000 ppb	100.000 %	100.000 %	0.000 ppb	0.000 ppb
Concentration per Run	0.000 ppb	100.000 %	100.000 %	0.000 ppb	0.000 ppb
Concentration RSD		0.1 %	0.1 %	0.3 %	0.1 %

Analysis index:	4	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	x0.2/20 Cal	Rack	0		
Analysis started at:	6/26/2024 10:59:28 AM	Vial	2		

Analysis index:	5	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	x1/100 Cal	Rack	0		
Analysis started at:	6/26/2024 11:04:06 AM	Vial	3		

Alpha ICPMSQ Data with SRD

6/27/2024 4:21:36 AM

Analysis index:	6	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	10/1000 Cal	Rack	0		
Analysis started at:	6/26/2024 11:08:44 AM	Vial	4		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	98.296 %	108.589 %	10.320 ppb	964.379 ppb	968.630 ppb	10.812 ppb	963.195 ppb	1,159.469 ppb	102.798 %
Concentration per Run 1	99.733 %	108.256 %	10.318 ppb	992.160 ppb	995.705 ppb	12.609 ppb	1,056.533 ppb	1,192.432 ppb	102.601 %
Concentration per Run 2	98.495 %	111.452 %	10.216 ppb	931.475 ppb	973.108 ppb	9.589 ppb	915.782 ppb	1,168.296 ppb	102.774 %
Concentration per Run 3	96.658 %	106.059 %	10.428 ppb	969.500 ppb	937.077 ppb	10.240 ppb	917.271 ppb	1,117.680 ppb	103.018 %
Concentration RSD	1.6 %	2.5 %	1.0 %	3.2 %	3.1 %	14.7 %	8.4 %	3.3 %	0.2 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	9.540 ppb	9.761 ppb	10.207 ppb	998.288 ppb	10.136 ppb	9.995 ppb	10.332 ppb	10.935 ppb	105.460 %
Concentration per Run 1	9.315 ppb	10.383 ppb	10.549 ppb	1,035.039 ppb	10.529 ppb	10.400 ppb	10.665 ppb	11.293 ppb	100.666 %
Concentration per Run 2	9.459 ppb	9.516 ppb	10.305 ppb	1,011.898 ppb	9.955 ppb	9.814 ppb	10.207 ppb	11.034 ppb	104.415 %
Concentration per Run 3	9.845 ppb	9.382 ppb	9.767 ppb	947.927 ppb	9.924 ppb	9.772 ppb	10.123 ppb	10.477 ppb	111.300 %
Concentration RSD	2.9 %	5.6 %	3.9 %	4.5 %	3.4 %	3.5 %	2.8 %	3.8 %	5.1 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	10.016 ppb	9.260 ppb	10.112 ppb	9.885 ppb	99.821 %	10.117 ppb	9.708 ppb	98.543 %	9.973 ppb
Concentration per Run 1	10.310 ppb	10.821 ppb	10.358 ppb	9.966 ppb	99.324 %	10.325 ppb	9.471 ppb	98.643 %	10.105 ppb
Concentration per Run 2	10.238 ppb	8.121 ppb	10.283 ppb	9.937 ppb	99.143 %	9.945 ppb	9.905 ppb	100.398 %	9.855 ppb
Concentration per Run 3	9.500 ppb	8.837 ppb	9.693 ppb	9.753 ppb	100.996 %	10.081 ppb	9.749 ppb	96.587 %	9.960 ppb
Concentration RSD	4.5 %	15.1 %	3.6 %	1.2 %	1.0 %	1.9 %	2.3 %	1.9 %	1.3 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	10.590 ppb	104.520 %	102.422 %	10.201 ppb	10.326 ppb
Concentration per Run 1	10.941 ppb	101.144 %	100.925 %	10.343 ppb	10.484 ppb
Concentration per Run 2	10.997 ppb	104.455 %	102.000 %	10.159 ppb	10.251 ppb
Concentration per Run 3	9.833 ppb	107.960 %	104.340 %	10.102 ppb	10.243 ppb
Concentration RSD	6.2 %	3.3 %	1.7 %	1.2 %	1.3 %

Alpha ICPMSQ Data with SRD

6/27/2024 4:21:36 AM

Analysis index:	7	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	60/6000 Cal	Rack	0		
Analysis started at:	6/26/2024 11:13:23 AM	Vial	5		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	96.896 %	98.202 %	60.847 ppb	6,295.025 ppb	6,137.426 ppb	61.573 ppb	6,422.537 ppb	6,231.092 ppb	112.973 %
Concentration per Run 1	98.238 %	94.474 %	61.047 ppb	6,605.632 ppb	6,362.465 ppb	66.518 ppb	6,898.310 ppb	6,730.648 ppb	112.990 %
Concentration per Run 2	96.940 %	101.065 %	61.083 ppb	6,174.495 ppb	6,027.936 ppb	60.390 ppb	6,145.115 ppb	5,872.000 ppb	112.355 %
Concentration per Run 3	95.511 %	99.068 %	60.412 ppb	6,104.948 ppb	6,021.876 ppb	57.812 ppb	6,224.186 ppb	6,090.628 ppb	113.573 %
Concentration RSD	1.4 %	3.4 %	0.6 %	4.3 %	3.2 %	7.3 %	6.4 %	7.2 %	0.5 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	62.116 ppb	60.666 ppb	62.269 ppb	6,293.521 ppb	63.172 ppb	60.000 ppb	63.179 ppb	63.049 ppb	102.862 %
Concentration per Run 1	65.387 ppb	65.771 ppb	68.933 ppb	6,733.076 ppb	68.880 ppb	65.801 ppb	67.356 ppb	68.897 ppb	94.058 %
Concentration per Run 2	60.861 ppb	57.600 ppb	57.482 ppb	5,911.304 ppb	59.674 ppb	56.691 ppb	59.576 ppb	59.612 ppb	107.773 %
Concentration per Run 3	60.100 ppb	58.626 ppb	60.393 ppb	6,236.183 ppb	60.963 ppb	57.508 ppb	62.605 ppb	60.639 ppb	106.756 %
Concentration RSD	4.6 %	7.3 %	9.6 %	6.6 %	7.9 %	8.4 %	6.2 %	8.1 %	7.4 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	61.706 ppb	62.793 ppb	60.832 ppb	59.644 ppb	101.249 %	60.439 ppb	60.278 ppb	101.898 %	60.181 ppb
Concentration per Run 1	66.271 ppb	67.614 ppb	62.971 ppb	59.580 ppb	99.773 %	60.998 ppb	60.852 ppb	101.322 %	59.261 ppb
Concentration per Run 2	59.614 ppb	64.155 ppb	58.757 ppb	58.499 ppb	103.107 %	59.964 ppb	59.860 ppb	102.560 %	60.015 ppb
Concentration per Run 3	59.231 ppb	56.609 ppb	60.768 ppb	60.852 ppb	100.868 %	60.357 ppb	60.123 ppb	101.812 %	61.266 ppb
Concentration RSD	6.4 %	9.0 %	3.5 %	2.0 %	1.7 %	0.9 %	0.9 %	0.6 %	1.7 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	59.017 ppb	103.908 %	105.267 %	60.612 ppb	61.140 ppb
Concentration per Run 1	60.151 ppb	99.201 %	100.697 %	61.652 ppb	63.265 ppb
Concentration per Run 2	57.152 ppb	105.834 %	105.144 %	59.868 ppb	60.424 ppb
Concentration per Run 3	59.750 ppb	106.689 %	109.961 %	60.315 ppb	59.731 ppb
Concentration RSD	2.8 %	3.9 %	4.4 %	1.5 %	3.1 %

Alpha ICPMSQ Data with SRD

6/27/2024 4:21:36 AM

Analysis index:	8	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	120/12000 Cal	Rack	0		
Analysis started at:	6/26/2024 11:18:03 AM	Vial	6		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	96.479 %	104.594 %	119.549 ppb	11,855.537 ppb	11,933.920 ppb	119.136 ppb	11,791.740 ppb	11,869.497 ppb	117.935 %
Concentration per Run 1	98.819 %	103.862 %	118.447 ppb	12,235.568 ppb	12,249.078 ppb	117.766 ppb	12,217.700 ppb	12,121.122 ppb	117.620 %
Concentration per Run 2	96.529 %	103.662 %	120.175 ppb	11,941.373 ppb	11,884.158 ppb	123.812 ppb	11,775.397 ppb	11,637.345 ppb	118.716 %
Concentration per Run 3	94.088 %	106.258 %	120.026 ppb	11,389.671 ppb	11,668.523 ppb	115.830 ppb	11,382.124 ppb	11,850.023 ppb	117.469 %
Concentration RSD	2.5 %	1.4 %	0.8 %	3.6 %	2.5 %	3.5 %	3.5 %	2.0 %	0.6 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	118.981 ppb	119.687 ppb	118.848 ppb	11,853.295 ppb	118.403 ppb	168.209 ppb	118.382 ppb	118.390 ppb	108.130 %
Concentration per Run 1	123.634 ppb	121.246 ppb	120.157 ppb	12,016.765 ppb	121.253 ppb	171.193 ppb	119.612 ppb	117.858 ppb	107.234 %
Concentration per Run 2	118.498 ppb	118.779 ppb	119.135 ppb	11,749.915 ppb	117.985 ppb	166.304 ppb	119.384 ppb	119.111 ppb	108.341 %
Concentration per Run 3	114.810 ppb	119.035 ppb	117.252 ppb	11,793.207 ppb	115.970 ppb	167.131 ppb	116.149 ppb	118.201 ppb	108.816 %
Concentration RSD	3.7 %	1.1 %	1.2 %	1.2 %	2.3 %	1.5 %	1.6 %	0.5 %	0.8 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	119.151 ppb	118.663 ppb	119.574 ppb	120.183 ppb	102.481 %	119.770 ppb	119.885 ppb	104.302 %	119.913 ppb
Concentration per Run 1	120.110 ppb	118.587 ppb	119.620 ppb	119.423 ppb	100.021 %	118.094 ppb	119.040 ppb	106.740 %	118.459 ppb
Concentration per Run 2	118.860 ppb	122.037 ppb	118.062 ppb	118.640 ppb	104.774 %	119.570 ppb	118.110 ppb	102.936 %	120.883 ppb
Concentration per Run 3	118.481 ppb	115.364 ppb	121.040 ppb	122.486 ppb	102.649 %	121.647 ppb	122.504 ppb	103.232 %	120.396 ppb
Concentration RSD	0.7 %	2.8 %	1.2 %	1.7 %	2.3 %	1.5 %	1.9 %	2.0 %	1.1 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	120.442 ppb	108.710 %	109.426 %	119.676 ppb	119.402 ppb
Concentration per Run 1	119.413 ppb	105.232 %	105.837 %	121.548 ppb	121.068 ppb
Concentration per Run 2	118.367 ppb	108.969 %	111.588 %	118.264 ppb	118.816 ppb
Concentration per Run 3	123.547 ppb	111.930 %	110.853 %	119.215 ppb	118.323 ppb
Concentration RSD	2.3 %	3.1 %	2.9 %	1.4 %	1.2 %

Alpha ICPMSQ Data with SRD

6/27/2024 4:21:36 AM

Analysis index:	9	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	0.2/20 Cal	Rack	0		
Analysis started at:	6/26/2024 11:23:38 AM	Vial	2		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	96.476 %	102.463 %	0.205 ppb	8.022 ppb	21.827 ppb	0.997 ppb	18.085 ppb	211.579 ppb	97.137 %
Concentration per Run 1	98.115 %	103.862 %	0.208 ppb	9.575 ppb	19.727 ppb	1.108 ppb	18.752 ppb	173.992 ppb	97.819 %
Concentration per Run 2	97.493 %	101.465 %	0.217 ppb	-0.307 ppb	29.142 ppb	0.673 ppb	19.610 ppb	234.062 ppb	97.816 %
Concentration per Run 3	93.820 %	102.064 %	0.190 ppb	14.797 ppb	16.611 ppb	1.212 ppb	15.894 ppb	226.684 ppb	95.775 %
Concentration RSD	2.4 %	1.2 %	6.6 %	95.6 %	29.9 %	28.7 %	10.8 %	15.5 %	1.2 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.122 ppb	0.263 ppb	0.181 ppb	31.324 ppb	0.242 ppb	0.284 ppb	0.382 ppb	1.595 ppb	100.461 %
Concentration per Run 1	0.091 ppb	0.272 ppb	0.292 ppb	30.129 ppb	0.207 ppb	0.239 ppb	0.477 ppb	1.579 ppb	98.887 %
Concentration per Run 2	0.143 ppb	0.216 ppb	0.146 ppb	33.009 ppb	0.237 ppb	0.215 ppb	0.313 ppb	1.767 ppb	97.835 %
Concentration per Run 3	0.132 ppb	0.300 ppb	0.104 ppb	30.836 ppb	0.281 ppb	0.398 ppb	0.355 ppb	1.438 ppb	104.660 %
Concentration RSD	22.5 %	16.3 %	54.6 %	4.8 %	15.3 %	35.1 %	22.4 %	10.4 %	3.7 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.026 ppb	0.925 ppb	0.303 ppb	1.290 ppb	102.784 %	0.207 ppb	0.221 ppb	99.684 %	0.201 ppb
Concentration per Run 1	0.078 ppb	1.232 ppb	0.309 ppb	1.498 ppb	102.862 %	0.239 ppb	0.214 ppb	102.286 %	0.207 ppb
Concentration per Run 2	0.132 ppb	1.017 ppb	0.276 ppb	1.176 ppb	100.716 %	0.199 ppb	0.221 ppb	94.680 %	0.206 ppb
Concentration per Run 3	-0.132 ppb	0.527 ppb	0.325 ppb	1.196 ppb	104.774 %	0.182 ppb	0.228 ppb	102.086 %	0.191 ppb
Concentration RSD	535.9 %	39.0 %	8.3 %	14.0 %	2.0 %	14.0 %	3.2 %	4.3 %	4.4 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	0.317 ppb	106.724 %	104.964 %	0.558 ppb	0.250 ppb
Concentration per Run 1	0.248 ppb	105.800 %	105.326 %	0.442 ppb	0.257 ppb
Concentration per Run 2	0.339 ppb	106.818 %	102.585 %	0.617 ppb	0.262 ppb
Concentration per Run 3	0.366 ppb	107.554 %	106.983 %	0.616 ppb	0.232 ppb
Concentration RSD	19.5 %	0.8 %	2.1 %	18.0 %	6.4 %

Alpha ICPMSQ Data with SRD

6/27/2024 4:21:36 AM

Analysis index:	10	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	1/100 Cal	Rack	0		
Analysis started at:	6/26/2024 11:28:16 AM	Vial	3		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	95.264 %	98.003 %	1.061 ppb	92.619 ppb	97.400 ppb	2.025 ppb	107.378 ppb	261.850 ppb	97.052 %
Concentration per Run 1	96.772 %	97.470 %	1.032 ppb	97.441 ppb	99.471 ppb	1.759 ppb	121.384 ppb	260.548 ppb	97.188 %
Concentration per Run 2	95.721 %	94.074 %	1.047 ppb	93.885 ppb	87.180 ppb	2.368 ppb	93.378 ppb	252.272 ppb	96.694 %
Concentration per Run 3	93.301 %	102.463 %	1.105 ppb	86.531 ppb	105.549 ppb	1.946 ppb	107.372 ppb	272.730 ppb	97.274 %
Concentration RSD	1.9 %	4.3 %	3.6 %	6.0 %	9.6 %	15.4 %	13.0 %	3.9 %	0.3 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.946 ppb	1.050 ppb	0.993 ppb	108.168 ppb	0.978 ppb	1.044 ppb	1.102 ppb	1.608 ppb	102.592 %
Concentration per Run 1	0.810 ppb	1.071 ppb	0.974 ppb	110.841 ppb	1.043 ppb	1.025 ppb	1.097 ppb	1.626 ppb	101.061 %
Concentration per Run 2	0.828 ppb	1.111 ppb	0.974 ppb	105.184 ppb	0.958 ppb	1.029 ppb	1.037 ppb	1.517 ppb	102.477 %
Concentration per Run 3	1.201 ppb	0.969 ppb	1.030 ppb	108.478 ppb	0.933 ppb	1.076 ppb	1.171 ppb	1.679 ppb	104.239 %
Concentration RSD	23.3 %	7.0 %	3.2 %	2.6 %	5.9 %	2.7 %	6.1 %	5.1 %	1.6 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.474 ppb	1.181 ppb	1.098 ppb	1.327 ppb	101.139 %	1.024 ppb	1.052 ppb	99.302 %	0.897 ppb
Concentration per Run 1	0.303 ppb	1.813 ppb	1.099 ppb	1.375 ppb	101.163 %	1.057 ppb	1.152 ppb	103.745 %	0.805 ppb
Concentration per Run 2	0.497 ppb	0.656 ppb	1.048 ppb	1.427 ppb	99.611 %	1.049 ppb	1.037 ppb	91.934 %	0.895 ppb
Concentration per Run 3	0.622 ppb	1.073 ppb	1.146 ppb	1.177 ppb	102.643 %	0.966 ppb	0.967 ppb	102.227 %	0.991 ppb
Concentration RSD	33.9 %	49.7 %	4.5 %	10.0 %	1.5 %	4.9 %	8.9 %	6.5 %	10.4 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	0.973 ppb	105.559 %	105.125 %	1.130 ppb	1.068 ppb
Concentration per Run 1	0.639 ppb	104.649 %	101.995 %	1.090 ppb	1.109 ppb
Concentration per Run 2	1.096 ppb	102.320 %	103.173 %	1.165 ppb	1.085 ppb
Concentration per Run 3	1.183 ppb	109.707 %	110.207 %	1.135 ppb	1.010 ppb
Concentration RSD	30.0 %	3.6 %	4.2 %	3.4 %	4.8 %

Analysis index:	11	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	x1/100 Cal	Rack	0		
Analysis started at:	6/26/2024 11:33:37 AM	Vial	3		

Analysis index:	12	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	x1/100 Cal	Rack	4		
Analysis started at:	6/26/2024 11:41:53 AM	Vial	3		

Analysis index:	13	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	x1/100 Cal	Rack	0		
Analysis started at:	6/26/2024 11:49:33 AM	Vial	3		

Alpha ICPMSQ Data with SRD

6/27/2024 4:21:36 AM

Analysis index:	14	User name	ALPHALAB\Metals-Instrument	Comment	Sr Inteference Check
Analysis label:	Sr 200ppb	Rack	4		
Analysis started at:	6/26/2024 11:54:35 AM	Vial	55		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	94.984 %	96.205 %	0.003 ppb	-8.904 ppb	1.748 ppb	0.822 ppb	-4.465 ppb	-0.480 ppb	96.951 %
Concentration per Run 1	97.244 %	100.866 %	0.004 ppb	-11.898 ppb	0.839 ppb	-0.240 ppb	-1.514 ppb	50.273 ppb	97.583 %
Concentration per Run 2	94.950 %	97.670 %	0.004 ppb	-8.696 ppb	2.322 ppb	2.180 ppb	-0.710 ppb	-56.425 ppb	97.114 %
Concentration per Run 3	92.757 %	90.080 %	0.002 ppb	-6.120 ppb	2.082 ppb	0.524 ppb	-11.173 ppb	4.712 ppb	96.157 %
Concentration RSD	2.4 %	5.8 %	32.3 %	32.5 %	45.5 %	150.6 %	130.4 %	11,152.8 %	0.7 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	-0.015 ppb	0.066 ppb	0.189 ppb	11.405 ppb	0.005 ppb	0.104 ppb	0.147 ppb	1.736 ppb	99.930 %
Concentration per Run 1	-0.024 ppb	0.098 ppb	0.109 ppb	12.109 ppb	0.002 ppb	0.131 ppb	0.162 ppb	1.640 ppb	103.133 %
Concentration per Run 2	-0.037 ppb	0.035 ppb	0.329 ppb	10.048 ppb	0.008 ppb	0.038 ppb	0.149 ppb	1.860 ppb	98.240 %
Concentration per Run 3	0.015 ppb	0.066 ppb	0.130 ppb	12.059 ppb	0.005 ppb	0.143 ppb	0.129 ppb	1.707 ppb	98.416 %
Concentration RSD	176.6 %	47.8 %	64.3 %	10.3 %	63.0 %	55.1 %	11.4 %	6.5 %	2.8 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	-0.544 ppb	0.065 ppb	191.678 ppb	0.000 ppb	99.917 %	0.002 ppb	0.000 ppb	101.533 %	-0.098 ppb
Concentration per Run 1	-0.565 ppb	0.102 ppb	189.509 ppb	0.047 ppb	100.180 %	-0.005 ppb	-0.002 ppb	98.432 %	-0.119 ppb
Concentration per Run 2	-0.362 ppb	0.115 ppb	196.677 ppb	-0.004 ppb	101.807 %	0.005 ppb	-0.002 ppb	106.039 %	-0.103 ppb
Concentration per Run 3	-0.706 ppb	-0.021 ppb	188.849 ppb	-0.043 ppb	97.764 %	0.005 ppb	0.004 ppb	100.130 %	-0.072 ppb
Concentration RSD	31.8 %	114.9 %	2.3 %	9,909.6 %	2.0 %	299.4 %	4,276.1 %	3.9 %	24.3 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	0.014 ppb	102.520 %	102.239 %	0.038 ppb	0.011 ppb
Concentration per Run 1	0.000 ppb	102.581 %	102.119 %	0.015 ppb	0.013 ppb
Concentration per Run 2	0.000 ppb	104.088 %	101.386 %	0.042 ppb	0.009 ppb
Concentration per Run 3	0.042 ppb	100.891 %	103.211 %	0.056 ppb	0.010 ppb
Concentration RSD	173.2 %	1.6 %	0.9 %	56.1 %	18.6 %

Alpha ICPMSQ Data with SRD

6/27/2024 4:21:36 AM

Analysis index:	15	User name	ALPHALAB\Metals-Instrument	Comment	ICV
Analysis label:	ICV	Rack	0		
Analysis started at:	6/26/2024 11:59:17 AM	Vial	7		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	93.460 %	96.405 %	50.901 ppb	5,006.426 ppb	5,000.013 ppb	46.638 ppb	5,057.224 ppb	5,111.862 ppb	102.994 %
Concentration per Run 1	96.133 %	98.668 %	50.060 ppb	5,033.496 ppb	4,982.152 ppb	45.984 ppb	5,300.362 ppb	5,298.288 ppb	103.881 %
Concentration per Run 2	93.853 %	98.269 %	50.886 ppb	4,900.508 ppb	4,915.764 ppb	46.296 ppb	5,071.578 ppb	4,994.599 ppb	103.423 %
Concentration per Run 3	90.395 %	92.277 %	51.757 ppb	5,085.273 ppb	5,102.121 ppb	47.634 ppb	4,799.731 ppb	5,042.700 ppb	101.677 %
Recovery Percentage 1			101.802 %	100.129 %	100.000 %	93.276 %	101.144 %	102.237 %	
Concentration RSD	3.1 %	3.7 %	1.7 %	1.9 %	1.9 %	1.9 %	5.0 %	3.2 %	1.1 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	49.975 ppb	50.481 ppb	49.331 ppb	4,957.742 ppb	50.275 ppb	49.466 ppb	50.804 ppb	51.469 ppb	102.391 %
Concentration per Run 1	50.112 ppb	50.616 ppb	51.872 ppb	5,232.227 ppb	52.967 ppb	51.378 ppb	52.808 ppb	54.239 ppb	96.238 %
Concentration per Run 2	51.017 ppb	52.060 ppb	48.676 ppb	5,001.908 ppb	50.772 ppb	49.750 ppb	53.267 ppb	52.268 ppb	100.165 %
Concentration per Run 3	48.796 ppb	48.766 ppb	47.446 ppb	4,639.090 ppb	47.085 ppb	47.271 ppb	46.338 ppb	47.901 ppb	110.771 %
Recovery Percentage 1	99.950 %	100.961 %	98.662 %	99.155 %	100.549 %	98.932 %	101.608 %	102.939 %	
Concentration RSD	2.2 %	3.3 %	4.6 %	6.0 %	5.9 %	4.2 %	7.6 %	6.3 %	7.3 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	50.229 ppb	51.283 ppb	48.012 ppb	51.051 ppb	100.239 %	49.371 ppb	49.551 ppb	97.904 %	50.078 ppb
Concentration per Run 1	52.844 ppb	52.287 ppb	50.679 ppb	51.469 ppb	99.029 %	49.186 ppb	48.971 ppb	97.453 %	50.217 ppb
Concentration per Run 2	50.902 ppb	52.296 ppb	46.682 ppb	50.773 ppb	100.177 %	49.988 ppb	47.889 ppb	100.040 %	48.186 ppb
Concentration per Run 3	46.942 ppb	49.264 ppb	46.675 ppb	50.911 ppb	101.512 %	48.940 ppb	51.792 ppb	96.219 %	51.831 ppb
Recovery Percentage 1	100.458 %	102.565 %	96.024 %	102.102 %		98.742 %	99.102 %		100.155 %
Concentration RSD	6.0 %	3.4 %	4.8 %	0.7 %	1.2 %	1.1 %	4.1 %	2.0 %	3.6 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	53.018 ppb	105.184 %	103.118 %	50.840 ppb	52.347 ppb
Concentration per Run 1	51.094 ppb	106.716 %	104.417 %	49.530 ppb	50.694 ppb
Concentration per Run 2	54.699 ppb	102.363 %	98.649 %	52.791 ppb	54.408 ppb
Concentration per Run 3	53.263 ppb	106.472 %	106.289 %	50.200 ppb	51.941 ppb
Recovery Percentage 1	106.037 %			101.681 %	104.695 %
Concentration RSD	3.4 %	2.3 %	3.9 %	3.4 %	3.6 %

Alpha ICPMSQ Data with SRD

6/27/2024 4:21:36 AM

Analysis index:	16	User name	ALPHALAB\Metals-Instrument	Comment	ICB
Analysis label:	ICB	Rack	0		
Analysis started at:	6/26/2024 12:03:58 PM	Vial	10		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	92.227 %	99.534 %	0.009 ppb	-18.772 ppb	-0.772 ppb	-0.617 ppb	3.688 ppb	5.250 ppb	96.044 %
Concentration per Run 1	93.861 %	100.466 %	0.008 ppb	-13.118 ppb	-0.475 ppb	-0.838 ppb	17.926 ppb	20.437 ppb	96.740 %
Concentration per Run 2	93.082 %	99.867 %	0.005 ppb	-23.291 ppb	-1.372 ppb	-0.687 ppb	-2.523 ppb	6.944 ppb	97.080 %
Concentration per Run 3	89.739 %	98.269 %	0.014 ppb	-19.906 ppb	-0.469 ppb	-0.326 ppb	-4.340 ppb	-11.632 ppb	94.313 %
Recovery Percentage 1			1.798 %	-18.772 %	-1.103 %	-6.169 %	3.688 %	5.250 %	
Concentration RSD	2.4 %	1.1 %	51.5 %	27.6 %	67.3 %	42.6 %	335.3 %	306.7 %	1.6 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	-0.055 ppb	-0.006 ppb	0.010 ppb	9.026 ppb	0.014 ppb	-0.059 ppb	0.020 ppb	0.026 ppb	99.137 %
Concentration per Run 1	-0.071 ppb	0.009 ppb	0.119 ppb	8.543 ppb	0.017 ppb	-0.013 ppb	0.030 ppb	-0.004 ppb	98.617 %
Concentration per Run 2	-0.054 ppb	-0.072 ppb	-0.003 ppb	11.988 ppb	0.024 ppb	-0.059 ppb	0.009 ppb	-0.021 ppb	95.738 %
Concentration per Run 3	-0.039 ppb	0.044 ppb	-0.088 ppb	6.548 ppb	0.002 ppb	-0.106 ppb	0.020 ppb	0.102 ppb	103.057 %
Recovery Percentage 1	-1.091 %	-0.636 %	0.955 %	18.052 %	2.813 %	-2.965 %	1.953 %	0.513 %	
Concentration RSD	29.1 %	936.9 %	1,090.0 %	30.5 %	79.1 %	77.8 %	52.7 %	260.6 %	3.7 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	-0.361 ppb	0.166 ppb	0.002 ppb	0.717 ppb	99.739 %	0.002 ppb	0.005 ppb	100.023 %	-0.071 ppb
Concentration per Run 1	-0.262 ppb	0.243 ppb	-0.002 ppb	0.771 ppb	99.083 %	0.000 ppb	0.003 ppb	104.341 %	-0.087 ppb
Concentration per Run 2	-0.313 ppb	0.277 ppb	0.007 ppb	0.871 ppb	97.867 %	0.004 ppb	0.009 ppb	94.282 %	-0.064 ppb
Concentration per Run 3	-0.508 ppb	-0.020 ppb	0.001 ppb	0.508 ppb	102.268 %	0.001 ppb	0.003 ppb	101.447 %	-0.062 ppb
Recovery Percentage 1	-72.205 %	3.329 %	0.020 %	35.838 %		0.394 %	2.643 %		-1.773 %
Concentration RSD	36.1 %	97.7 %	220.2 %	26.2 %	2.3 %	123.3 %	62.6 %	5.2 %	19.2 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	0.042 ppb	102.773 %	102.860 %	0.333 ppb	0.020 ppb
Concentration per Run 1	0.085 ppb	101.296 %	102.567 %	0.221 ppb	0.026 ppb
Concentration per Run 2	0.000 ppb	100.317 %	100.768 %	0.431 ppb	0.019 ppb
Concentration per Run 3	0.041 ppb	106.706 %	105.246 %	0.346 ppb	0.015 ppb
Recovery Percentage 1	8.405 %			33.263 %	1.999 %
Concentration RSD	100.9 %	3.3 %	2.2 %	31.8 %	29.6 %

Alpha ICPMSQ Data with SRD

6/27/2024 4:21:36 AM

Analysis index:	17	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	ICSA	Rack	4		
Analysis started at:	6/26/2024 12:08:45 PM	Vial	53		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	71.292 %	88.482 %	0.028 ppb	226,456.010 ppb	92,983.623 ppb	91,577.946 ppb	91,830.994 ppb	280,889.260 ppb	94.977 %
Concentration per Run 1	72.812 %	92.077 %	0.023 ppb	222,145.878 ppb	92,324.426 ppb	89,040.798 ppb	92,050.631 ppb	289,460.701 ppb	94.026 %
Concentration per Run 2	71.199 %	85.286 %	0.034 ppb	224,533.282 ppb	92,433.008 ppb	90,666.480 ppb	90,392.708 ppb	276,107.353 ppb	94.816 %
Concentration per Run 3	69.865 %	88.082 %	0.026 ppb	232,688.870 ppb	94,193.435 ppb	95,026.562 ppb	93,049.641 ppb	277,099.727 ppb	96.090 %
Recovery Percentage 1			2.782 %	90.582 %	92.984 %	91.578 %	91.831 %	93.630 %	
Concentration RSD	2.1 %	3.9 %	20.4 %	2.4 %	1.1 %	3.4 %	1.5 %	2.6 %	1.1 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.025 ppb	1.604 ppb	4.706 ppb	233,155.421 ppb	2.112 ppb	2.433 ppb	0.983 ppb	2.469 ppb	100.790 %
Concentration per Run 1	0.084 ppb	1.663 ppb	4.443 ppb	232,932.001 ppb	2.066 ppb	2.418 ppb	1.035 ppb	2.723 ppb	96.805 %
Concentration per Run 2	-0.017 ppb	1.684 ppb	4.557 ppb	227,615.406 ppb	2.223 ppb	2.266 ppb	0.791 ppb	2.335 ppb	97.017 %
Concentration per Run 3	0.009 ppb	1.465 ppb	5.117 ppb	238,918.857 ppb	2.045 ppb	2.614 ppb	1.122 ppb	2.349 ppb	108.549 %
Recovery Percentage 1	0.503 %	48.604 %	82.554 %	93.262 %	73.572 %	39.882 %	34.850 %	21.658 %	
Concentration RSD	208.7 %	7.5 %	7.7 %	2.4 %	4.6 %	7.2 %	17.5 %	8.9 %	6.7 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	-0.011 ppb	3.931 ppb	2.367 ppb	**2,202.013 ppb**	88.316 %	0.018 ppb	0.324 ppb	94.625 %	0.086 ppb
Concentration per Run 1	0.168 ppb	4.877 ppb	2.335 ppb	2,197.527 ppb	88.043 %	0.018 ppb	0.306 ppb	96.360 %	0.061 ppb
Concentration per Run 2	0.062 ppb	3.410 ppb	2.351 ppb	2,204.406 ppb	87.718 %	0.020 ppb	0.325 ppb	90.590 %	0.107 ppb
Concentration per Run 3	-0.261 ppb	3.506 ppb	2.416 ppb	2,204.108 ppb	89.188 %	0.015 ppb	0.341 ppb	96.923 %	0.091 ppb
Recovery Percentage 1	-0.645 %	30.473 %	87.677 %	110.101 %		2.227 %	81.011 %		1.076 %
Concentration RSD	2,126.7 %	20.9 %	1.8 %	0.2 %	0.9 %	12.9 %	5.5 %	3.7 %	27.1 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	1.348 ppb	102.514 %	100.951 %	0.100 ppb	1.549 ppb
Concentration per Run 1	1.316 ppb	101.009 %	102.389 %	0.050 ppb	1.482 ppb
Concentration per Run 2	1.309 ppb	101.111 %	96.336 %	0.121 ppb	1.600 ppb
Concentration per Run 3	1.420 ppb	105.422 %	104.128 %	0.128 ppb	1.564 ppb
Recovery Percentage 1	71.710 %			4.988 %	49.967 %
Concentration RSD	4.6 %	2.5 %	4.1 %	43.5 %	3.9 %

Alpha ICPMSQ Data with SRD

6/27/2024 4:21:36 AM

Analysis index:	18	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	LDR Check	Rack	4		
Analysis started at:	6/26/2024 12:13:27 PM	Vial	1		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	87.325 %	104.261 %	0.005 ppb	27.828 ppb	3.813 ppb	6.163 ppb	27.381 ppb	19.297 ppb	99.635 %
Concentration per Run 1	88.978 %	93.076 %	0.003 ppb	60.668 ppb	4.784 ppb	6.905 ppb	47.343 ppb	19.535 ppb	101.593 %
Concentration per Run 2	87.714 %	107.657 %	0.007 ppb	19.052 ppb	4.460 ppb	6.829 ppb	35.283 ppb	15.263 ppb	99.178 %
Concentration per Run 3	85.284 %	112.051 %	0.004 ppb	3.765 ppb	2.196 ppb	4.756 ppb	-0.482 ppb	23.092 ppb	98.134 %
Concentration RSD	2.1 %	9.5 %	49.7 %	105.8 %	37.0 %	19.8 %	90.8 %	20.3 %	1.8 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	-0.045 ppb	0.059 ppb	9,346.403 ppb	90.879 ppb	0.029 ppb	9,126.932 ppb	9,307.454 ppb	9,927.314 ppb	107.331 %
Concentration per Run 1	-0.005 ppb	0.112 ppb	9,592.744 ppb	103.576 ppb	0.031 ppb	8,982.082 ppb	9,754.276 ppb	10,550.913 ppb	102.282 %
Concentration per Run 2	-0.042 ppb	0.014 ppb	9,233.977 ppb	92.283 ppb	0.029 ppb	9,088.474 ppb	9,208.951 ppb	9,358.395 ppb	107.465 %
Concentration per Run 3	-0.087 ppb	0.052 ppb	9,212.489 ppb	76.779 ppb	0.027 ppb	9,310.240 ppb	8,959.134 ppb	9,872.633 ppb	112.247 %
Concentration RSD	91.9 %	83.5 %	2.3 %	14.8 %	7.1 %	1.8 %	4.4 %	6.0 %	4.6 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	974.776 ppb	1.703 ppb	0.220 ppb	9.491 ppb	103.704 %	0.176 ppb	0.081 ppb	103.066 %	0.720 ppb
Concentration per Run 1	1,013.878 ppb	1.089 ppb	0.227 ppb	10.759 ppb	103.909 %	0.179 ppb	0.103 ppb	102.517 %	0.673 ppb
Concentration per Run 2	980.309 ppb	2.909 ppb	0.240 ppb	10.152 ppb	103.982 %	0.174 ppb	0.089 ppb	100.752 %	0.771 ppb
Concentration per Run 3	930.141 ppb	1.111 ppb	0.194 ppb	7.562 ppb	103.221 %	0.175 ppb	0.052 ppb	105.929 %	0.715 ppb
Concentration RSD	4.3 %	61.3 %	10.8 %	17.9 %	0.4 %	1.3 %	32.3 %	2.6 %	6.9 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	10,295.846 ppb	105.935 %	104.808 %	0.056 ppb	9,378.568 ppb
Concentration per Run 1	9,937.899 ppb	104.234 %	104.549 %	0.028 ppb	9,402.347 ppb
Concentration per Run 2	10,245.265 ppb	107.190 %	107.089 %	0.066 ppb	9,305.876 ppb
Concentration per Run 3	10,704.375 ppb	106.380 %	102.786 %	0.075 ppb	9,427.480 ppb
Concentration RSD	3.7 %	1.4 %	2.1 %	43.9 %	0.7 %

Alpha ICPMSQ Data with SRD

6/27/2024 4:21:36 AM

Analysis index:	19	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	Rinse	Rack	0		
Analysis started at:	6/26/2024 12:18:09 PM	Vial	1		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	88.454 %	101.332 %	0.004 ppb	17.059 ppb	2.899 ppb	1.883 ppb	36.945 ppb	16.849 ppb	98.919 %
Concentration per Run 1	89.760 %	100.866 %	0.008 ppb	13.403 ppb	1.740 ppb	2.654 ppb	30.123 ppb	15.870 ppb	99.088 %
Concentration per Run 2	89.019 %	103.662 %	0.010 ppb	17.224 ppb	4.321 ppb	1.224 ppb	42.151 ppb	12.392 ppb	98.766 %
Concentration per Run 3	86.584 %	99.467 %	-0.005 ppb	20.550 ppb	2.636 ppb	1.770 ppb	38.562 ppb	22.285 ppb	98.902 %
Concentration RSD	1.9 %	2.1 %	182.5 %	21.0 %	45.2 %	38.4 %	16.7 %	29.8 %	0.2 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	-0.055 ppb	0.026 ppb	0.489 ppb	29.912 ppb	0.012 ppb	1.078 ppb	1.946 ppb	4.389 ppb	102.448 %
Concentration per Run 1	-0.023 ppb	-0.025 ppb	0.360 ppb	29.981 ppb	0.010 ppb	1.153 ppb	2.177 ppb	4.519 ppb	101.829 %
Concentration per Run 2	-0.055 ppb	0.040 ppb	0.563 ppb	30.864 ppb	0.025 ppb	0.980 ppb	2.093 ppb	4.591 ppb	100.054 %
Concentration per Run 3	-0.087 ppb	0.063 ppb	0.543 ppb	28.892 ppb	0.002 ppb	1.100 ppb	1.569 ppb	4.057 ppb	105.460 %
Concentration RSD	58.2 %	175.5 %	22.9 %	3.3 %	95.6 %	8.2 %	16.9 %	6.6 %	2.7 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	2.663 ppb	0.151 ppb	0.005 ppb	1.825 ppb	102.130 %	0.001 ppb	-0.002 ppb	102.858 %	-0.068 ppb
Concentration per Run 1	2.642 ppb	0.253 ppb	0.022 ppb	1.792 ppb	99.528 %	-0.002 ppb	-0.002 ppb	101.426 %	-0.069 ppb
Concentration per Run 2	2.992 ppb	0.221 ppb	0.008 ppb	1.868 ppb	102.888 %	0.007 ppb	-0.002 ppb	101.813 %	-0.042 ppb
Concentration per Run 3	2.356 ppb	-0.020 ppb	-0.014 ppb	1.814 ppb	103.975 %	-0.001 ppb	-0.002 ppb	105.335 %	-0.091 ppb
Concentration RSD	12.0 %	98.5 %	344.9 %	2.1 %	2.3 %	489.5 %	0.0 %	2.1 %	36.1 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	0.291 ppb	101.371 %	99.491 %	0.028 ppb	1.482 ppb
Concentration per Run 1	0.356 ppb	99.562 %	97.818 %	0.008 ppb	1.901 ppb
Concentration per Run 2	0.388 ppb	101.250 %	100.804 %	0.036 ppb	1.401 ppb
Concentration per Run 3	0.131 ppb	103.302 %	99.850 %	0.041 ppb	1.145 ppb
Concentration RSD	48.1 %	1.8 %	1.5 %	63.3 %	26.0 %

Alpha ICPMSQ Data with SRD

6/27/2024 4:21:36 AM

Analysis index:	20	User name	ALPHALAB\Metals-Instrument	Comment	CCV/MCCV
Analysis label:	CCV	Rack	0		
Analysis started at:	6/26/2024 12:22:46 PM	Vial	9		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	87.991 %	104.461 %	61.644 ppb	5,987.827 ppb	6,010.183 ppb	57.517 ppb	6,188.819 ppb	5,859.798 ppb	106.719 %
Concentration per Run 1	89.368 %	103.462 %	61.140 ppb	6,074.108 ppb	6,140.380 ppb	63.363 ppb	6,228.240 ppb	5,951.328 ppb	107.369 %
Concentration per Run 2	88.450 %	102.264 %	61.776 ppb	5,952.459 ppb	5,896.398 ppb	54.708 ppb	6,090.127 ppb	5,917.081 ppb	106.706 %
Concentration per Run 3	86.156 %	107.657 %	62.017 ppb	5,936.913 ppb	5,993.773 ppb	54.480 ppb	6,248.092 ppb	5,710.986 ppb	106.082 %
Recovery Percentage 1			102.741 %	99.797 %	100.170 %	95.862 %	103.147 %	97.663 %	
Concentration RSD	1.9 %	2.7 %	0.7 %	1.3 %	2.0 %	8.8 %	1.4 %	2.2 %	0.6 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	58.044 ppb	56.025 ppb	57.520 ppb	6,076.594 ppb	61.449 ppb	58.769 ppb	61.850 ppb	60.705 ppb	106.128 %
Concentration per Run 1	58.701 ppb	56.743 ppb	59.876 ppb	6,200.462 ppb	62.090 ppb	59.404 ppb	62.741 ppb	61.815 ppb	103.556 %
Concentration per Run 2	58.187 ppb	54.719 ppb	55.259 ppb	5,889.146 ppb	59.890 ppb	57.350 ppb	59.634 ppb	58.890 ppb	109.527 %
Concentration per Run 3	57.244 ppb	56.612 ppb	57.425 ppb	6,140.173 ppb	62.367 ppb	59.553 ppb	63.173 ppb	61.411 ppb	105.300 %
Recovery Percentage 1	96.740 %	93.375 %	95.866 %	101.277 %	102.415 %	97.948 %	103.083 %	101.175 %	
Concentration RSD	1.3 %	2.0 %	4.0 %	2.7 %	2.2 %	2.1 %	3.1 %	2.6 %	2.9 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	61.347 ppb	60.440 ppb	58.516 ppb	59.831 ppb	102.158 %	58.985 ppb	59.233 ppb	101.575 %	54.944 ppb
Concentration per Run 1	62.276 ppb	62.392 ppb	59.511 ppb	59.512 ppb	97.747 %	59.556 ppb	59.068 ppb	102.892 %	53.917 ppb
Concentration per Run 2	59.323 ppb	59.479 ppb	56.913 ppb	58.518 ppb	104.103 %	58.666 ppb	59.198 ppb	101.387 %	54.382 ppb
Concentration per Run 3	62.442 ppb	59.448 ppb	59.122 ppb	61.463 ppb	104.625 %	58.733 ppb	59.432 ppb	100.445 %	56.531 ppb
Recovery Percentage 1	102.245 %	100.733 %	97.526 %	99.718 %		98.309 %	98.721 %		91.573 %
Concentration RSD	2.9 %	2.8 %	2.4 %	2.5 %	3.7 %	0.8 %	0.3 %	1.2 %	2.5 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	61.922 ppb	103.726 %	103.012 %	59.726 ppb	60.257 ppb
Concentration per Run 1	60.609 ppb	100.142 %	99.791 %	60.724 ppb	60.858 ppb
Concentration per Run 2	64.030 ppb	103.960 %	102.543 %	59.288 ppb	60.838 ppb
Concentration per Run 3	61.126 ppb	107.076 %	106.703 %	59.166 ppb	59.075 ppb
Recovery Percentage 1	103.203 %			99.543 %	100.429 %
Concentration RSD	3.0 %	3.3 %	3.4 %	1.5 %	1.7 %

Alpha ICPMSQ Data with SRD

6/27/2024 4:21:36 AM

Analysis index:	21	User name	ALPHALAB\Metals-Instrument	Comment	CCB
Analysis label:	CCB	Rack	0		
Analysis started at:	6/26/2024 12:27:27 PM	Vial	10		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	86.900 %	103.662 %	0.009 ppb	-1.793 ppb	0.085 ppb	0.313 ppb	16.855 ppb	2.851 ppb	94.796 %
Concentration per Run 1	88.579 %	99.667 %	0.006 ppb	6.644 ppb	0.435 ppb	0.440 ppb	40.595 ppb	-0.773 ppb	95.514 %
Concentration per Run 2	86.300 %	111.052 %	-0.005 ppb	-16.313 ppb	-0.575 ppb	-0.009 ppb	9.270 ppb	11.202 ppb	94.976 %
Concentration per Run 3	85.821 %	100.266 %	0.027 ppb	4.290 ppb	0.396 ppb	0.508 ppb	0.699 ppb	-1.877 ppb	93.899 %
Recovery Percentage 1			1.868 %	-1.793 %	0.122 %	3.133 %	16.855 %	2.851 %	
Concentration RSD	1.7 %	6.2 %	171.9 %	704.5 %	671.3 %	89.7 %	124.6 %	254.5 %	0.9 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	-0.077 ppb	0.001 ppb	0.118 ppb	15.704 ppb	0.007 ppb	-0.002 ppb	0.217 ppb	0.228 ppb	101.203 %
Concentration per Run 1	-0.071 ppb	0.056 ppb	0.067 ppb	18.368 ppb	-0.001 ppb	0.064 ppb	0.220 ppb	0.193 ppb	99.595 %
Concentration per Run 2	-0.071 ppb	0.007 ppb	0.231 ppb	15.469 ppb	0.005 ppb	-0.019 ppb	0.209 ppb	0.263 ppb	99.391 %
Concentration per Run 3	-0.087 ppb	-0.061 ppb	0.057 ppb	13.276 ppb	0.016 ppb	-0.051 ppb	0.222 ppb	0.229 ppb	104.624 %
Recovery Percentage 1	-1.531 %	0.074 %	11.838 %	31.408 %	1.304 %	-0.108 %	21.712 %	4.565 %	
Concentration RSD	12.1 %	7,971.7 %	82.6 %	16.3 %	130.7 %	2,755.3 %	3.3 %	15.4 %	2.9 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.539 ppb	0.103 ppb	0.015 ppb	1.263 ppb	102.427 %	0.003 ppb	0.010 ppb	102.688 %	0.758 ppb
Concentration per Run 1	0.575 ppb	0.088 ppb	-0.006 ppb	1.251 ppb	98.806 %	0.006 ppb	-0.002 ppb	102.660 %	0.861 ppb
Concentration per Run 2	0.729 ppb	0.105 ppb	0.018 ppb	1.350 ppb	105.231 %	0.001 ppb	0.018 ppb	101.365 %	0.684 ppb
Concentration per Run 3	0.313 ppb	0.117 ppb	0.034 ppb	1.190 ppb	103.245 %	0.002 ppb	0.013 ppb	104.038 %	0.730 ppb
Recovery Percentage 1	107.849 %	2.067 %	0.154 %	63.166 %		0.717 %	4.984 %		18.961 %
Concentration RSD	39.0 %	14.1 %	131.2 %	6.4 %	3.2 %	87.4 %	104.2 %	1.3 %	12.2 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	0.073 ppb	103.322 %	100.853 %	0.251 ppb	0.274 ppb
Concentration per Run 1	0.176 ppb	100.322 %	98.904 %	0.161 ppb	0.305 ppb
Concentration per Run 2	0.042 ppb	104.977 %	103.647 %	0.292 ppb	0.273 ppb
Concentration per Run 3	0.000 ppb	104.668 %	100.007 %	0.301 ppb	0.244 ppb
Recovery Percentage 1	14.518 %			25.107 %	27.373 %
Concentration RSD	126.5 %	2.5 %	2.5 %	31.2 %	11.2 %

Alpha ICPMSQ Data with SRD

6/27/2024 4:21:36 AM

Analysis index:	22	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	CCB	Rack	0		
Analysis started at:	6/26/2024 12:35:32 PM	Vial	10		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	88.690 %	99.601 %	0.001 ppb	-8.936 ppb	-0.779 ppb	-0.083 ppb	-8.397 ppb	9.344 ppb	95.709 %
Concentration per Run 1	90.430 %	100.067 %	-0.001 ppb	-5.048 ppb	-0.921 ppb	0.322 ppb	6.567 ppb	24.286 ppb	96.315 %
Concentration per Run 2	88.913 %	98.868 %	0.002 ppb	-11.844 ppb	-0.919 ppb	-0.572 ppb	-7.629 ppb	-7.874 ppb	95.928 %
Concentration per Run 3	86.727 %	99.867 %	0.002 ppb	-9.916 ppb	-0.497 ppb	0.001 ppb	-24.130 ppb	11.621 ppb	94.885 %
Recovery Percentage 1			0.170 %	-8.936 %	-1.113 %	-0.829 %	-8.397 %	9.344 %	
Concentration RSD	2.1 %	0.6 %	231.5 %	39.2 %	31.4 %	545.8 %	182.9 %	173.4 %	0.8 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	-0.071 ppb	0.011 ppb	-0.014 ppb	5.512 ppb	0.008 ppb	0.011 ppb	0.172 ppb	0.079 ppb	101.473 %
Concentration per Run 1	-0.071 ppb	0.006 ppb	-0.006 ppb	5.877 ppb	-0.001 ppb	-0.002 ppb	0.202 ppb	0.116 ppb	97.654 %
Concentration per Run 2	-0.071 ppb	0.040 ppb	-0.161 ppb	5.047 ppb	0.011 ppb	0.034 ppb	0.146 ppb	0.021 ppb	100.194 %
Concentration per Run 3	-0.072 ppb	-0.012 ppb	0.126 ppb	5.611 ppb	0.013 ppb	0.002 ppb	0.170 ppb	0.100 ppb	106.569 %
Recovery Percentage 1	-1.422 %	1.113 %	-1.380 %	11.023 %	1.510 %	0.568 %	17.249 %	1.575 %	
Concentration RSD	0.7 %	236.8 %	1,041.2 %	7.7 %	97.1 %	169.7 %	16.4 %	64.6 %	4.5 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.053 ppb	0.044 ppb	0.005 ppb	0.270 ppb	100.487 %	0.000 ppb	0.002 ppb	103.161 %	0.064 ppb
Concentration per Run 1	0.445 ppb	0.081 ppb	0.008 ppb	0.237 ppb	99.664 %	0.005 ppb	-0.002 ppb	101.972 %	0.051 ppb
Concentration per Run 2	-0.207 ppb	-0.038 ppb	0.003 ppb	0.360 ppb	99.403 %	-0.003 ppb	0.003 ppb	102.526 %	0.107 ppb
Concentration per Run 3	-0.079 ppb	0.091 ppb	0.004 ppb	0.212 ppb	102.393 %	-0.001 ppb	0.003 ppb	104.986 %	0.033 ppb
Recovery Percentage 1	10.562 %	0.888 %	0.050 %	13.496 %		-0.012 %	0.839 %		1.591 %
Concentration RSD	653.9 %	161.4 %	57.1 %	29.3 %	1.6 %	8,522.7 %	172.0 %	1.6 %	60.8 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	0.029 ppb	103.324 %	98.993 %	0.040 ppb	0.143 ppb
Concentration per Run 1	0.045 ppb	101.162 %	96.912 %	0.012 ppb	0.159 ppb
Concentration per Run 2	0.000 ppb	102.874 %	95.602 %	0.045 ppb	0.145 ppb
Concentration per Run 3	0.042 ppb	105.935 %	104.465 %	0.064 ppb	0.124 ppb
Recovery Percentage 1	5.765 %			4.022 %	14.297 %
Concentration RSD	86.8 %	2.3 %	4.8 %	65.3 %	12.4 %

Alpha ICPMSQ Data with SRD

6/27/2024 4:21:36 AM

Analysis index:	23	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	wg1939188-1 6020TL	Rack	1		
Analysis started at:	6/26/2024 12:41:19 PM	Vial	46		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	93.836 %	97.936 %	0.005 ppb	3.517 ppb	3.484 ppb	1.455 ppb	2.860 ppb	12.615 ppb	97.435 %
Concentration per Run 1	95.518 %	101.664 %	0.010 ppb	-2.375 ppb	2.638 ppb	1.285 ppb	0.582 ppb	23.324 ppb	98.604 %
Concentration per Run 2	93.331 %	95.073 %	0.005 ppb	6.622 ppb	5.117 ppb	0.625 ppb	-2.715 ppb	2.528 ppb	97.633 %
Concentration per Run 3	92.661 %	97.071 %	-0.001 ppb	6.303 ppb	2.697 ppb	2.455 ppb	10.713 ppb	11.993 ppb	96.068 %
Concentration RSD	1.6 %	3.5 %	113.4 %	145.2 %	40.6 %	63.7 %	244.7 %	82.5 %	1.3 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	-0.066 ppb	0.003 ppb	0.126 ppb	2.771 ppb	0.004 ppb	0.027 ppb	0.169 ppb	3.196 ppb	103.335 %
Concentration per Run 1	-0.087 ppb	-0.026 ppb	0.016 ppb	4.715 ppb	0.008 ppb	0.024 ppb	0.169 ppb	3.433 ppb	99.123 %
Concentration per Run 2	-0.039 ppb	-0.002 ppb	0.186 ppb	0.549 ppb	-0.004 ppb	-0.020 ppb	0.197 ppb	3.138 ppb	103.971 %
Concentration per Run 3	-0.072 ppb	0.036 ppb	0.176 ppb	3.048 ppb	0.007 ppb	0.077 ppb	0.142 ppb	3.017 ppb	106.910 %
Concentration RSD	37.5 %	1,132.1 %	75.8 %	75.7 %	179.0 %	177.9 %	16.3 %	6.7 %	3.8 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.111 ppb	0.227 ppb	0.014 ppb	0.132 ppb	104.339 %	-0.001 ppb	0.000 ppb	100.940 %	-0.012 ppb
Concentration per Run 1	0.333 ppb	-0.030 ppb	0.031 ppb	0.216 ppb	103.445 %	0.000 ppb	0.003 ppb	100.190 %	-0.053 ppb
Concentration per Run 2	0.052 ppb	0.359 ppb	0.002 ppb	0.149 ppb	105.375 %	0.000 ppb	-0.002 ppb	101.274 %	0.005 ppb
Concentration per Run 3	-0.054 ppb	0.351 ppb	0.008 ppb	0.030 ppb	104.196 %	-0.001 ppb	-0.002 ppb	101.357 %	0.012 ppb
Concentration RSD	180.8 %	97.9 %	110.9 %	71.4 %	0.9 %	121.7 %	7,934.5 %	0.6 %	296.4 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	0.058 ppb	102.571 %	100.542 %	0.022 ppb	0.118 ppb
Concentration per Run 1	0.044 ppb	101.557 %	99.149 %	-0.004 ppb	0.118 ppb
Concentration per Run 2	0.088 ppb	102.445 %	98.318 %	0.037 ppb	0.119 ppb
Concentration per Run 3	0.042 ppb	103.710 %	104.159 %	0.034 ppb	0.116 ppb
Concentration RSD	45.5 %	1.1 %	3.1 %	103.8 %	1.4 %

Alpha ICPMSQ Data with SRD

6/27/2024 4:21:36 AM

Analysis index:	24	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	wg1939188-2d10 6020TL	Rack	1		
Analysis started at:	6/26/2024 12:45:58 PM	Vial	47		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	88.804 %	103.662 %	5.183 ppb	986.464 ppb	974.047 ppb	201.455 ppb	1,036.969 ppb	939.159 ppb	96.974 %
Concentration per Run 1	90.521 %	109.854 %	5.187 ppb	976.368 ppb	958.866 ppb	204.171 ppb	1,068.075 ppb	947.128 ppb	98.057 %
Concentration per Run 2	89.061 %	96.871 %	5.250 ppb	1,046.777 ppb	1,034.049 ppb	213.201 ppb	1,103.255 ppb	985.555 ppb	96.424 %
Concentration per Run 3	86.830 %	104.261 %	5.113 ppb	936.247 ppb	929.226 ppb	186.993 ppb	939.577 ppb	884.794 ppb	96.442 %
Concentration RSD	2.1 %	6.3 %	1.3 %	5.7 %	5.5 %	6.6 %	8.3 %	5.4 %	1.0 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	49.016 ppb	18.536 ppb	47.777 ppb	111.316 ppb	48.969 ppb	47.008 ppb	24.638 ppb	48.501 ppb	107.661 %
Concentration per Run 1	49.222 ppb	18.171 ppb	49.063 ppb	113.960 ppb	49.836 ppb	47.890 ppb	25.575 ppb	51.275 ppb	106.117 %
Concentration per Run 2	50.915 ppb	19.495 ppb	48.630 ppb	104.962 ppb	50.438 ppb	47.687 ppb	24.723 ppb	48.283 ppb	105.578 %
Concentration per Run 3	46.912 ppb	17.944 ppb	45.638 ppb	115.025 ppb	46.634 ppb	45.447 ppb	23.617 ppb	45.945 ppb	111.287 %
Concentration RSD	4.1 %	4.5 %	3.9 %	5.0 %	4.2 %	2.9 %	4.0 %	5.5 %	2.9 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	11.628 ppb	11.587 ppb	97.342 ppb	97.664 ppb	102.768 %	4.976 ppb	5.216 ppb	105.786 %	41.965 ppb
Concentration per Run 1	12.563 ppb	12.189 ppb	104.999 ppb	97.275 ppb	101.730 %	4.873 ppb	4.904 ppb	115.641 %	38.894 ppb
Concentration per Run 2	11.738 ppb	12.458 ppb	94.690 ppb	99.803 ppb	102.686 %	4.922 ppb	5.354 ppb	103.038 %	41.645 ppb
Concentration per Run 3	10.585 ppb	10.112 ppb	92.338 ppb	95.915 ppb	103.889 %	5.132 ppb	5.391 ppb	98.678 %	45.355 ppb
Concentration RSD	8.5 %	11.1 %	6.9 %	2.0 %	1.1 %	2.8 %	5.2 %	8.3 %	7.7 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	207.173 ppb	106.175 %	104.541 %	11.903 ppb	53.521 ppb
Concentration per Run 1	208.994 ppb	106.061 %	107.515 %	11.418 ppb	52.217 ppb
Concentration per Run 2	203.506 ppb	107.847 %	102.648 %	12.150 ppb	53.909 ppb
Concentration per Run 3	209.018 ppb	104.618 %	103.460 %	12.141 ppb	54.439 ppb
Concentration RSD	1.5 %	1.5 %	2.5 %	3.5 %	2.2 %

Alpha ICPMSQ Data with SRD

6/27/2024 4:21:36 AM

Analysis index:	25	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	L2434679-01 6020TL	Rack	1		
Analysis started at:	6/26/2024 12:50:38 PM	Vial	53		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	90.952 %	103.595 %	0.013 ppb	5,909.503 ppb	1,191.195 ppb	15.361 ppb	1,553.846 ppb	4,156.174 ppb	99.331 %
Concentration per Run 1	92.096 %	103.462 %	0.012 ppb	5,860.075 ppb	1,186.888 ppb	14.483 ppb	1,611.904 ppb	4,104.705 ppb	98.980 %
Concentration per Run 2	91.934 %	104.660 %	0.012 ppb	6,003.490 ppb	1,200.962 ppb	15.332 ppb	1,630.991 ppb	4,176.230 ppb	100.424 %
Concentration per Run 3	88.826 %	102.663 %	0.015 ppb	5,864.944 ppb	1,185.736 ppb	16.268 ppb	1,418.641 ppb	4,187.585 ppb	98.589 %
Concentration RSD	2.0 %	1.0 %	17.4 %	1.4 %	0.7 %	5.8 %	7.6 %	1.1 %	1.0 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	-0.006 ppb	0.344 ppb	12.109 ppb	5.905 ppb	0.020 ppb	0.051 ppb	0.184 ppb	0.531 ppb	108.938 %
Concentration per Run 1	-0.026 ppb	0.468 ppb	12.568 ppb	5.160 ppb	0.029 ppb	0.082 ppb	0.222 ppb	0.556 ppb	107.427 %
Concentration per Run 2	0.001 ppb	0.226 ppb	11.785 ppb	6.281 ppb	0.014 ppb	0.041 ppb	0.195 ppb	0.487 ppb	113.956 %
Concentration per Run 3	0.006 ppb	0.336 ppb	11.974 ppb	6.273 ppb	0.018 ppb	0.031 ppb	0.136 ppb	0.550 ppb	105.431 %
Concentration RSD	275.7 %	35.3 %	3.4 %	10.9 %	37.3 %	52.6 %	23.8 %	7.2 %	4.1 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	-0.208 ppb	0.479 ppb	22.827 ppb	1.463 ppb	104.744 %	-0.002 ppb	0.040 ppb	107.706 %	1.246 ppb
Concentration per Run 1	-0.058 ppb	0.610 ppb	22.035 ppb	1.573 ppb	103.494 %	-0.001 ppb	0.033 ppb	102.166 %	1.473 ppb
Concentration per Run 2	-0.205 ppb	0.719 ppb	23.877 ppb	1.566 ppb	106.713 %	-0.003 ppb	0.053 ppb	116.097 %	1.100 ppb
Concentration per Run 3	-0.362 ppb	0.108 ppb	22.568 ppb	1.249 ppb	104.025 %	-0.001 ppb	0.033 ppb	104.857 %	1.165 ppb
Concentration RSD	73.1 %	68.0 %	4.2 %	12.7 %	1.6 %	43.4 %	28.9 %	6.9 %	16.0 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	18.118 ppb	109.962 %	106.491 %	0.052 ppb	0.086 ppb
Concentration per Run 1	16.813 ppb	105.117 %	103.176 %	0.040 ppb	0.091 ppb
Concentration per Run 2	18.853 ppb	115.408 %	111.844 %	0.064 ppb	0.082 ppb
Concentration per Run 3	18.688 ppb	109.363 %	104.454 %	0.052 ppb	0.085 ppb
Concentration RSD	6.3 %	4.7 %	4.4 %	22.8 %	5.4 %

Alpha ICPMSQ Data with SRD

6/27/2024 4:21:36 AM

Analysis index:	26	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	L2434679-02 6020TL	Rack	1		
Analysis started at:	6/26/2024 12:55:16 PM	Vial	54		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	88.822 %	98.003 %	0.014 ppb	11,417.924 ppb	5,782.817 ppb	147.830 ppb	2,693.369 ppb	26,010.075 ppb	95.999 %
Concentration per Run 1	89.938 %	92.676 %	0.010 ppb	11,829.029 ppb	5,957.016 ppb	158.668 ppb	2,780.752 ppb	27,300.590 ppb	96.683 %
Concentration per Run 2	88.792 %	101.864 %	0.013 ppb	11,317.305 ppb	5,725.606 ppb	143.351 ppb	2,649.813 ppb	25,491.444 ppb	95.236 %
Concentration per Run 3	87.734 %	99.467 %	0.019 ppb	11,107.438 ppb	5,665.828 ppb	141.470 ppb	2,649.542 ppb	25,238.190 ppb	96.077 %
Concentration RSD	1.2 %	4.9 %	33.8 %	3.3 %	2.7 %	6.4 %	2.8 %	4.3 %	0.8 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.853 ppb	3.530 ppb	4,461.681 ppb	276.805 ppb	0.696 ppb	2.119 ppb	1.754 ppb	1.150 ppb	103.035 %
Concentration per Run 1	0.621 ppb	3.574 ppb	4,503.439 ppb	264.305 ppb	0.722 ppb	1.877 ppb	1.575 ppb	1.089 ppb	105.473 %
Concentration per Run 2	1.141 ppb	3.348 ppb	4,380.409 ppb	272.554 ppb	0.621 ppb	2.245 ppb	1.833 ppb	1.089 ppb	104.242 %
Concentration per Run 3	0.797 ppb	3.666 ppb	4,501.197 ppb	293.556 ppb	0.745 ppb	2.235 ppb	1.853 ppb	1.271 ppb	99.388 %
Concentration RSD	31.0 %	4.6 %	1.6 %	5.4 %	9.5 %	9.9 %	8.8 %	9.1 %	3.1 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	-0.181 ppb	0.106 ppb	76.869 ppb	1.908 ppb	101.713 %	0.001 ppb	0.080 ppb	108.626 %	0.362 ppb
Concentration per Run 1	-0.188 ppb	-0.036 ppb	77.046 ppb	1.864 ppb	102.514 %	0.002 ppb	0.056 ppb	110.512 %	0.325 ppb
Concentration per Run 2	-0.081 ppb	0.230 ppb	76.912 ppb	1.992 ppb	101.792 %	0.000 ppb	0.062 ppb	105.784 %	0.412 ppb
Concentration per Run 3	-0.274 ppb	0.123 ppb	76.649 ppb	1.870 ppb	100.835 %	0.000 ppb	0.124 ppb	109.584 %	0.348 ppb
Concentration RSD	53.3 %	127.1 %	0.3 %	3.8 %	0.8 %	230.3 %	46.6 %	2.3 %	12.4 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	18.512 ppb	108.780 %	107.415 %	0.098 ppb	0.335 ppb
Concentration per Run 1	15.869 ppb	110.099 %	110.957 %	0.078 ppb	0.320 ppb
Concentration per Run 2	20.084 ppb	108.251 %	106.723 %	0.105 ppb	0.342 ppb
Concentration per Run 3	19.583 ppb	107.991 %	104.566 %	0.110 ppb	0.343 ppb
Concentration RSD	12.4 %	1.1 %	3.0 %	17.3 %	3.9 %

Alpha ICPMSQ Data with SRD

6/27/2024 4:21:36 AM

Analysis index:	27	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	L2434679-04 6020TL	Rack	1		
Analysis started at:	6/26/2024 12:59:54 PM	Vial	55		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	93.523 %	104.993 %	0.004 ppb	13,544.803 ppb	16,279.352 ppb	44.902 ppb	5,629.953 ppb	77,878.249 ppb	101.207 %
Concentration per Run 1	94.614 %	102.663 %	0.004 ppb	14,141.945 ppb	16,874.635 ppb	48.623 ppb	5,829.811 ppb	83,004.243 ppb	101.238 %
Concentration per Run 2	93.723 %	106.658 %	0.004 ppb	13,176.950 ppb	15,650.506 ppb	43.742 ppb	5,335.204 ppb	73,136.053 ppb	101.589 %
Concentration per Run 3	92.231 %	105.659 %	0.003 ppb	13,315.514 ppb	16,312.915 ppb	42.342 ppb	5,724.844 ppb	77,494.451 ppb	100.793 %
Concentration RSD	1.3 %	2.0 %	12.0 %	3.9 %	3.8 %	7.3 %	4.6 %	6.4 %	0.4 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.296 ppb	0.962 ppb	8.309 ppb	77.395 ppb	0.149 ppb	0.677 ppb	0.769 ppb	1.380 ppb	104.994 %
Concentration per Run 1	0.235 ppb	0.796 ppb	7.759 ppb	80.673 ppb	0.122 ppb	0.593 ppb	0.787 ppb	1.571 ppb	107.915 %
Concentration per Run 2	0.328 ppb	1.050 ppb	8.343 ppb	76.939 ppb	0.163 ppb	0.565 ppb	0.829 ppb	1.272 ppb	105.295 %
Concentration per Run 3	0.323 ppb	1.039 ppb	8.823 ppb	74.572 ppb	0.162 ppb	0.874 ppb	0.692 ppb	1.298 ppb	101.773 %
Concentration RSD	17.8 %	14.9 %	6.4 %	4.0 %	15.5 %	25.2 %	9.1 %	12.0 %	2.9 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	-0.008 ppb	0.253 ppb	223.097 ppb	0.330 ppb	101.319 %	0.000 ppb	0.000 ppb	108.722 %	0.136 ppb
Concentration per Run 1	0.037 ppb	0.114 ppb	225.608 ppb	0.406 ppb	103.559 %	0.004 ppb	-0.002 ppb	111.566 %	0.151 ppb
Concentration per Run 2	0.104 ppb	0.674 ppb	218.483 ppb	0.261 ppb	99.362 %	-0.002 ppb	-0.002 ppb	108.297 %	0.138 ppb
Concentration per Run 3	-0.165 ppb	-0.029 ppb	225.199 ppb	0.322 ppb	101.035 %	-0.002 ppb	0.003 ppb	106.303 %	0.120 ppb
Concentration RSD	1,797.5 %	146.9 %	1.8 %	22.0 %	2.1 %	1,523.2 %	17,725.4 %	2.4 %	11.6 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	49.519 ppb	108.385 %	103.648 %	0.015 ppb	0.124 ppb
Concentration per Run 1	52.451 ppb	109.093 %	107.189 %	0.003 ppb	0.127 ppb
Concentration per Run 2	50.351 ppb	107.513 %	101.985 %	0.015 ppb	0.136 ppb
Concentration per Run 3	45.757 ppb	108.548 %	101.770 %	0.026 ppb	0.110 ppb
Concentration RSD	6.9 %	0.7 %	3.0 %	79.7 %	10.5 %

Alpha ICPMSQ Data with SRD

6/27/2024 4:21:36 AM

Analysis index:	28	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	xL2434679-03 6020TL	Rack	1		
Analysis started at:	6/26/2024 1:04:32 PM	Vial	48		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	94.484 %	102.397 %	0.003 ppb	12,844.882 ppb	10,938.780 ppb	12.317 ppb	4,393.674 ppb	46,187.411 ppb	100.964 %
Concentration per Run 1	95.946 %	102.264 %	-0.001 ppb	13,091.660 ppb	11,400.246 ppb	12.697 ppb	4,724.399 ppb	47,896.290 ppb	100.932 %
Concentration per Run 2	94.289 %	102.863 %	0.004 ppb	12,749.499 ppb	10,746.704 ppb	12.597 ppb	4,275.990 ppb	45,469.516 ppb	100.864 %
Concentration per Run 3	93.217 %	102.064 %	0.006 ppb	12,693.487 ppb	10,669.390 ppb	11.657 ppb	4,180.633 ppb	45,196.428 ppb	101.097 %
Concentration RSD	1.5 %	0.4 %	126.6 %	1.7 %	3.7 %	4.7 %	6.6 %	3.2 %	0.1 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.189 ppb	9.434 ppb	72.520 ppb	151.409 ppb	0.376 ppb	12.844 ppb	1.347 ppb	0.446 ppb	108.421 %
Concentration per Run 1	0.134 ppb	12.295 ppb	72.438 ppb	150.807 ppb	0.381 ppb	12.554 ppb	1.195 ppb	0.430 ppb	114.787 %
Concentration per Run 2	0.288 ppb	11.390 ppb	74.554 ppb	150.884 ppb	0.398 ppb	12.871 ppb	1.402 ppb	0.521 ppb	104.825 %
Concentration per Run 3	0.147 ppb	4.615 ppb	70.567 ppb	152.537 ppb	0.351 ppb	13.108 ppb	1.443 ppb	0.387 ppb	105.651 %
Concentration RSD	45.2 %	44.5 %	2.8 %	0.6 %	6.3 %	2.2 %	9.8 %	15.3 %	5.1 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	-0.053 ppb	0.196 ppb	148.149 ppb	0.895 ppb	102.099 %	-0.004 ppb	-0.002 ppb	109.840 %	0.091 ppb
Concentration per Run 1	-0.042 ppb	0.362 ppb	152.096 ppb	0.832 ppb	100.698 %	-0.005 ppb	-0.002 ppb	113.963 %	0.068 ppb
Concentration per Run 2	0.013 ppb	0.109 ppb	146.526 ppb	0.953 ppb	102.823 %	-0.003 ppb	-0.002 ppb	109.465 %	0.099 ppb
Concentration per Run 3	-0.129 ppb	0.116 ppb	145.826 ppb	0.901 ppb	102.777 %	-0.003 ppb	-0.002 ppb	106.091 %	0.106 ppb
Concentration RSD	135.2 %	73.7 %	2.3 %	6.8 %	1.2 %	16.4 %	0.0 %	3.6 %	22.3 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	52.192 ppb	107.146 %	102.166 %	0.012 ppb	0.077 ppb
Concentration per Run 1	51.053 ppb	111.083 %	104.842 %	0.002 ppb	0.080 ppb
Concentration per Run 2	51.563 ppb	105.676 %	100.768 %	0.012 ppb	0.082 ppb
Concentration per Run 3	53.959 ppb	104.679 %	100.888 %	0.023 ppb	0.070 ppb
Concentration RSD	3.0 %	3.2 %	2.3 %	86.4 %	8.1 %

Alpha ICPMSQ Data with SRD

6/27/2024 4:21:36 AM

Analysis index:	29	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	wg1939188-3d10 6020TL	Rack	1		
Analysis started at:	6/26/2024 1:09:12 PM	Vial	49		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	92.787 %	102.730 %	5.076 ppb	2,155.649 ppb	1,937.079 ppb	191.816 ppb	1,400.236 ppb	5,279.375 ppb	99.027 %
Concentration per Run 1	94.047 %	103.462 %	4.983 ppb	2,197.274 ppb	1,944.682 ppb	197.065 ppb	1,457.770 ppb	5,388.666 ppb	97.937 %
Concentration per Run 2	94.013 %	99.068 %	5.208 ppb	2,235.318 ppb	2,043.619 ppb	195.491 ppb	1,409.504 ppb	5,336.114 ppb	100.189 %
Concentration per Run 3	90.300 %	105.659 %	5.036 ppb	2,034.356 ppb	1,822.937 ppb	182.892 ppb	1,333.433 ppb	5,113.343 ppb	98.956 %
Concentration RSD	2.3 %	3.3 %	2.3 %	5.0 %	5.7 %	4.1 %	4.5 %	2.8 %	1.1 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	45.990 ppb	18.928 ppb	54.222 ppb	106.584 ppb	48.140 ppb	46.288 ppb	24.297 ppb	47.034 ppb	104.960 %
Concentration per Run 1	44.909 ppb	18.878 ppb	54.076 ppb	107.967 ppb	49.193 ppb	47.108 ppb	23.996 ppb	48.286 ppb	104.947 %
Concentration per Run 2	47.130 ppb	18.485 ppb	54.754 ppb	99.881 ppb	46.815 ppb	44.731 ppb	23.556 ppb	46.035 ppb	108.118 %
Concentration per Run 3	45.932 ppb	19.422 ppb	53.837 ppb	111.902 ppb	48.410 ppb	47.026 ppb	25.339 ppb	46.782 ppb	101.814 %
Concentration RSD	2.4 %	2.5 %	0.9 %	5.8 %	2.5 %	2.9 %	3.8 %	2.4 %	3.0 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	11.526 ppb	13.096 ppb	106.279 ppb	95.620 ppb	101.699 %	4.800 ppb	4.986 ppb	101.686 %	48.736 ppb
Concentration per Run 1	11.726 ppb	15.713 ppb	107.244 ppb	92.613 ppb	101.919 %	4.804 ppb	5.243 ppb	101.832 %	50.099 ppb
Concentration per Run 2	10.947 ppb	10.899 ppb	107.884 ppb	95.951 ppb	102.935 %	4.643 ppb	4.735 ppb	106.349 %	47.997 ppb
Concentration per Run 3	11.906 ppb	12.676 ppb	103.710 ppb	98.296 ppb	100.242 %	4.954 ppb	4.978 ppb	96.877 %	48.113 ppb
Concentration RSD	4.4 %	18.6 %	2.1 %	3.0 %	1.3 %	3.2 %	5.1 %	4.7 %	2.4 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	211.899 ppb	103.201 %	96.438 %	12.377 ppb	55.623 ppb
Concentration per Run 1	224.471 ppb	100.680 %	94.010 %	12.421 ppb	56.528 ppb
Concentration per Run 2	205.203 ppb	105.761 %	99.804 %	12.181 ppb	55.079 ppb
Concentration per Run 3	206.024 ppb	103.163 %	95.499 %	12.528 ppb	55.261 ppb
Concentration RSD	5.1 %	2.5 %	3.1 %	1.4 %	1.4 %

Alpha ICPMSQ Data with SRD

6/27/2024 4:21:36 AM

Analysis index:	30	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	wg1939188-4d10 6020TL	Rack	1		
Analysis started at:	6/26/2024 1:13:50 PM	Vial	50		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	91.296 %	104.527 %	4.804 ppb	2,113.318 ppb	1,958.960 ppb	195.980 ppb	1,367.148 ppb	5,085.510 ppb	98.812 %
Concentration per Run 1	92.718 %	105.459 %	4.885 ppb	2,123.070 ppb	1,992.882 ppb	206.478 ppb	1,445.037 ppb	5,258.902 ppb	98.699 %
Concentration per Run 2	91.960 %	101.265 %	4.797 ppb	2,155.482 ppb	2,002.886 ppb	187.618 ppb	1,341.240 ppb	4,850.333 ppb	99.538 %
Concentration per Run 3	89.210 %	106.858 %	4.730 ppb	2,061.403 ppb	1,881.112 ppb	193.843 ppb	1,315.167 ppb	5,147.294 ppb	98.198 %
Concentration RSD	2.0 %	2.8 %	1.6 %	2.3 %	3.5 %	4.9 %	5.0 %	4.2 %	0.7 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	45.408 ppb	18.809 ppb	52.323 ppb	107.834 ppb	46.396 ppb	44.768 ppb	22.594 ppb	46.096 ppb	105.940 %
Concentration per Run 1	44.943 ppb	18.109 ppb	51.191 ppb	116.415 ppb	46.337 ppb	44.396 ppb	22.047 ppb	46.023 ppb	111.084 %
Concentration per Run 2	46.112 ppb	19.636 ppb	53.057 ppb	108.961 ppb	47.363 ppb	45.751 ppb	23.279 ppb	45.968 ppb	103.238 %
Concentration per Run 3	45.170 ppb	18.681 ppb	52.721 ppb	98.128 ppb	45.487 ppb	44.157 ppb	22.457 ppb	46.297 ppb	103.497 %
Concentration RSD	1.4 %	4.1 %	1.9 %	8.5 %	2.0 %	1.9 %	2.8 %	0.4 %	4.2 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	11.653 ppb	12.353 ppb	107.139 ppb	94.003 ppb	102.456 %	4.605 ppb	4.736 ppb	106.828 %	46.877 ppb
Concentration per Run 1	11.540 ppb	13.128 ppb	108.656 ppb	90.374 ppb	101.997 %	4.560 ppb	4.711 ppb	106.964 %	48.204 ppb
Concentration per Run 2	11.575 ppb	10.518 ppb	106.603 ppb	95.040 ppb	102.435 %	4.534 ppb	4.750 ppb	103.496 %	47.510 ppb
Concentration per Run 3	11.845 ppb	13.414 ppb	106.158 ppb	96.595 ppb	102.935 %	4.721 ppb	4.746 ppb	110.024 %	44.917 ppb
Concentration RSD	1.4 %	12.9 %	1.2 %	3.4 %	0.5 %	2.2 %	0.5 %	3.1 %	3.7 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	208.167 ppb	105.628 %	101.264 %	11.748 ppb	52.638 ppb
Concentration per Run 1	211.287 ppb	106.642 %	103.277 %	11.466 ppb	50.834 ppb
Concentration per Run 2	209.772 ppb	104.671 %	98.647 %	12.091 ppb	54.505 ppb
Concentration per Run 3	203.443 ppb	105.570 %	101.866 %	11.686 ppb	52.575 ppb
Concentration RSD	2.0 %	0.9 %	2.3 %	2.7 %	3.5 %

Alpha ICPMSQ Data with SRD

6/27/2024 4:21:36 AM

Analysis index:	31	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	wg1939188-5d10 6020TL	Rack	1		
Analysis started at:	6/26/2024 1:18:27 PM	Vial	51		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	88.481 %	107.390 %	50.776 ppb	5,805.846 ppb	5,708.365 ppb	48.255 ppb	5,173.176 ppb	9,076.613 ppb	98.324 %
Concentration per Run 1	90.560 %	103.462 %	50.127 ppb	5,991.725 ppb	5,960.271 ppb	51.379 ppb	5,496.179 ppb	9,591.754 ppb	99.080 %
Concentration per Run 2	88.417 %	112.450 %	50.947 ppb	5,577.239 ppb	5,530.372 ppb	46.495 ppb	4,979.358 ppb	8,682.137 ppb	97.983 %
Concentration per Run 3	86.466 %	106.258 %	51.256 ppb	5,848.574 ppb	5,634.451 ppb	46.891 ppb	5,043.991 ppb	8,955.949 ppb	97.909 %
Concentration RSD	2.3 %	4.3 %	1.1 %	3.6 %	3.9 %	5.6 %	5.4 %	5.1 %	0.7 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	48.268 ppb	48.327 ppb	53.511 ppb	4,787.639 ppb	48.128 ppb	47.779 ppb	47.824 ppb	48.257 ppb	105.613 %
Concentration per Run 1	49.006 ppb	49.410 ppb	55.397 ppb	5,024.108 ppb	50.357 ppb	49.134 ppb	49.566 ppb	49.651 ppb	101.058 %
Concentration per Run 2	45.431 ppb	47.470 ppb	51.863 ppb	4,594.324 ppb	46.593 ppb	47.013 ppb	46.287 ppb	46.868 ppb	108.230 %
Concentration per Run 3	50.365 ppb	48.102 ppb	53.272 ppb	4,744.486 ppb	47.435 ppb	47.191 ppb	47.619 ppb	48.251 ppb	107.551 %
Concentration RSD	5.3 %	2.0 %	3.3 %	4.6 %	4.1 %	2.5 %	3.4 %	2.9 %	3.7 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	49.467 ppb	52.751 ppb	63.662 ppb	51.563 ppb	103.108 %	1.513 ppb	47.703 ppb	108.971 %	48.943 ppb
Concentration per Run 1	52.059 ppb	51.745 ppb	63.969 ppb	50.884 ppb	100.574 %	1.571 ppb	47.557 ppb	106.142 %	49.869 ppb
Concentration per Run 2	48.378 ppb	50.385 ppb	61.581 ppb	50.293 ppb	104.355 %	1.496 ppb	48.452 ppb	107.190 %	48.897 ppb
Concentration per Run 3	47.963 ppb	56.124 ppb	65.437 ppb	53.512 ppb	104.395 %	1.472 ppb	47.100 ppb	113.582 %	48.064 ppb
Concentration RSD	4.6 %	5.7 %	3.1 %	3.3 %	2.1 %	3.4 %	1.4 %	3.7 %	1.8 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	55.532 ppb	107.897 %	105.493 %	49.316 ppb	51.833 ppb
Concentration per Run 1	58.150 ppb	104.629 %	101.618 %	50.363 ppb	52.107 ppb
Concentration per Run 2	56.056 ppb	107.463 %	105.803 %	48.588 ppb	52.418 ppb
Concentration per Run 3	52.389 ppb	111.601 %	109.058 %	48.996 ppb	50.974 ppb
Concentration RSD	5.3 %	3.2 %	3.5 %	1.9 %	1.5 %

Alpha ICPMSQ Data with SRD

6/27/2024 4:21:36 AM

Analysis index:	32	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	wg1939188-6d5 6020TL	Rack	1		
Analysis started at:	6/26/2024 1:23:05 PM	Vial	52		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	88.287 %	101.265 %	0.004 ppb	2,348.798 ppb	2,044.241 ppb	2.864 ppb	802.780 ppb	8,952.073 ppb	94.710 %
Concentration per Run 1	90.125 %	99.867 %	0.010 ppb	2,333.752 ppb	2,048.225 ppb	2.710 ppb	743.659 ppb	8,780.118 ppb	96.439 %
Concentration per Run 2	88.045 %	103.262 %	0.005 ppb	2,355.674 ppb	2,066.287 ppb	3.188 ppb	818.905 ppb	9,095.119 ppb	93.915 %
Concentration per Run 3	86.689 %	100.666 %	-0.002 ppb	2,356.967 ppb	2,018.210 ppb	2.693 ppb	845.776 ppb	8,980.984 ppb	93.775 %
Concentration RSD	2.0 %	1.8 %	140.7 %	0.6 %	1.2 %	9.8 %	6.6 %	1.8 %	1.6 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.163 ppb	2.568 ppb	14.807 ppb	41.655 ppb	0.166 ppb	2.533 ppb	0.381 ppb	0.245 ppb	106.011 %
Concentration per Run 1	0.206 ppb	2.560 ppb	14.100 ppb	43.836 ppb	0.178 ppb	2.552 ppb	0.432 ppb	0.318 ppb	108.453 %
Concentration per Run 2	0.231 ppb	2.724 ppb	15.153 ppb	47.399 ppb	0.246 ppb	2.742 ppb	0.385 ppb	0.231 ppb	101.842 %
Concentration per Run 3	0.052 ppb	2.419 ppb	15.167 ppb	33.729 ppb	0.076 ppb	2.305 ppb	0.325 ppb	0.186 ppb	107.736 %
Concentration RSD	59.5 %	5.9 %	4.1 %	17.0 %	51.3 %	8.6 %	14.1 %	27.3 %	3.4 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	-0.236 ppb	0.194 ppb	28.864 ppb	1.378 ppb	102.339 %	0.008 ppb	0.039 ppb	106.344 %	0.122 ppb
Concentration per Run 1	-0.144 ppb	0.231 ppb	28.373 ppb	1.571 ppb	99.902 %	0.015 ppb	0.067 ppb	108.239 %	0.191 ppb
Concentration per Run 2	-0.149 ppb	0.120 ppb	29.634 ppb	1.622 ppb	102.412 %	0.011 ppb	0.053 ppb	104.441 %	0.170 ppb
Concentration per Run 3	-0.417 ppb	0.231 ppb	28.585 ppb	0.941 ppb	104.703 %	-0.001 ppb	-0.002 ppb	106.353 %	0.004 ppb
Concentration RSD	66.1 %	33.0 %	2.3 %	27.5 %	2.3 %	104.2 %	91.9 %	1.8 %	83.9 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	11.037 ppb	108.677 %	103.395 %	0.434 ppb	0.216 ppb
Concentration per Run 1	10.632 ppb	110.299 %	101.820 %	0.347 ppb	0.322 ppb
Concentration per Run 2	12.684 ppb	107.015 %	103.169 %	0.543 ppb	0.259 ppb
Concentration per Run 3	9.795 ppb	108.719 %	105.195 %	0.412 ppb	0.065 ppb
Concentration RSD	13.5 %	1.5 %	1.6 %	23.1 %	62.0 %

Alpha ICPMSQ Data with SRD

6/27/2024 4:21:36 AM

Analysis index:	33	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	CCV	Rack	0		
Analysis started at:	6/26/2024 1:27:43 PM	Vial	9		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	89.280 %	103.196 %	60.543 ppb	5,729.210 ppb	5,694.155 ppb	54.852 ppb	5,904.346 ppb	5,857.475 ppb	103.106 %
Concentration per Run 1	91.061 %	101.065 %	60.917 ppb	5,887.242 ppb	5,804.507 ppb	56.404 ppb	5,970.845 ppb	6,077.006 ppb	103.809 %
Concentration per Run 2	89.338 %	104.061 %	60.274 ppb	5,759.696 ppb	5,703.034 ppb	54.236 ppb	6,021.081 ppb	5,864.793 ppb	101.814 %
Concentration per Run 3	87.441 %	104.461 %	60.438 ppb	5,540.691 ppb	5,574.926 ppb	53.915 ppb	5,721.111 ppb	5,630.625 ppb	103.696 %
Recovery Percentage 1			100.905 %	95.487 %	94.903 %	91.420 %	98.406 %	97.625 %	
Concentration RSD	2.0 %	1.8 %	0.6 %	3.1 %	2.0 %	2.5 %	2.7 %	3.8 %	1.1 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	59.463 ppb	59.841 ppb	57.588 ppb	5,816.458 ppb	58.137 ppb	56.404 ppb	58.887 ppb	59.831 ppb	105.003 %
Concentration per Run 1	59.748 ppb	60.031 ppb	59.060 ppb	5,845.564 ppb	58.527 ppb	57.549 ppb	58.773 ppb	60.049 ppb	103.859 %
Concentration per Run 2	59.090 ppb	60.637 ppb	58.999 ppb	5,943.739 ppb	59.115 ppb	56.235 ppb	59.602 ppb	60.268 ppb	103.970 %
Concentration per Run 3	59.552 ppb	58.856 ppb	54.704 ppb	5,660.072 ppb	56.769 ppb	55.429 ppb	58.285 ppb	59.175 ppb	107.181 %
Recovery Percentage 1	99.105 %	99.736 %	95.979 %	96.941 %	96.895 %	94.007 %	98.144 %	99.718 %	
Concentration RSD	0.6 %	1.5 %	4.3 %	2.5 %	2.1 %	1.9 %	1.1 %	1.0 %	1.8 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	59.347 ppb	60.541 ppb	58.645 ppb	58.421 ppb	103.602 %	59.924 ppb	58.449 ppb	106.163 %	54.473 ppb
Concentration per Run 1	59.652 ppb	60.043 ppb	58.642 ppb	56.967 ppb	101.318 %	60.880 ppb	59.086 ppb	104.506 %	53.431 ppb
Concentration per Run 2	59.913 ppb	63.130 ppb	59.189 ppb	60.494 ppb	104.845 %	58.898 ppb	57.190 ppb	109.035 %	54.585 ppb
Concentration per Run 3	58.475 ppb	58.451 ppb	58.104 ppb	57.803 ppb	104.645 %	59.995 ppb	59.071 ppb	104.947 %	55.403 ppb
Recovery Percentage 1	98.911 %	100.902 %	97.742 %	97.369 %		99.874 %	97.415 %		90.788 %
Concentration RSD	1.3 %	3.9 %	0.9 %	3.2 %	1.9 %	1.7 %	1.9 %	2.4 %	1.8 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	62.094 ppb	109.467 %	104.233 %	63.709 ppb	64.264 ppb
Concentration per Run 1	61.795 ppb	108.519 %	102.592 %	63.553 ppb	64.206 ppb
Concentration per Run 2	63.585 ppb	108.764 %	104.081 %	64.419 ppb	64.252 ppb
Concentration per Run 3	60.901 ppb	111.119 %	106.027 %	63.154 ppb	64.332 ppb
Recovery Percentage 1	103.489 %			106.181 %	107.106 %
Concentration RSD	2.2 %	1.3 %	1.7 %	1.0 %	0.1 %

Alpha ICPMSQ Data with SRD

6/27/2024 4:21:36 AM

Analysis index:	34	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	CCB	Rack	0		
Analysis started at:	6/26/2024 1:32:25 PM	Vial	10		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	86.766 %	98.336 %	0.010 ppb	-20.160 ppb	-1.206 ppb	-0.092 ppb	5.127 ppb	7.467 ppb	89.198 %
Concentration per Run 1	88.095 %	87.283 %	0.012 ppb	0.318 ppb	-0.831 ppb	0.998 ppb	1.429 ppb	12.226 ppb	89.492 %
Concentration per Run 2	86.604 %	98.069 %	0.011 ppb	-25.414 ppb	-1.373 ppb	-0.186 ppb	16.595 ppb	13.202 ppb	88.859 %
Concentration per Run 3	85.599 %	109.654 %	0.007 ppb	-35.382 ppb	-1.414 ppb	-1.090 ppb	-2.643 ppb	-3.027 ppb	89.244 %
Recovery Percentage 1			1.986 %	-20.160 %	-1.723 %	-0.924 %	5.127 %	7.467 %	
Concentration RSD	1.4 %	11.4 %	26.0 %	91.4 %	27.0 %	1,133.5 %	197.7 %	121.9 %	0.4 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	-0.045 ppb	-0.018 ppb	0.013 ppb	10.751 ppb	0.010 ppb	-0.074 ppb	0.023 ppb	-0.041 ppb	102.633 %
Concentration per Run 1	-0.087 ppb	-0.017 ppb	-0.001 ppb	12.073 ppb	0.008 ppb	-0.120 ppb	0.038 ppb	-0.072 ppb	99.228 %
Concentration per Run 2	-0.006 ppb	-0.006 ppb	0.064 ppb	10.702 ppb	0.008 ppb	-0.046 ppb	0.013 ppb	-0.063 ppb	101.664 %
Concentration per Run 3	-0.042 ppb	-0.032 ppb	-0.024 ppb	9.478 ppb	0.015 ppb	-0.057 ppb	0.016 ppb	0.013 ppb	107.006 %
Recovery Percentage 1	-0.903 %	-1.837 %	1.300 %	21.502 %	2.070 %	-3.718 %	2.270 %	-0.812 %	
Concentration RSD	90.0 %	72.4 %	352.8 %	12.1 %	38.9 %	53.2 %	59.6 %	115.3 %	3.9 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	-0.379 ppb	0.441 ppb	-0.016 ppb	0.897 ppb	103.346 %	0.004 ppb	0.001 ppb	105.469 %	0.877 ppb
Concentration per Run 1	-0.425 ppb	0.258 ppb	-0.028 ppb	1.219 ppb	101.061 %	0.002 ppb	-0.002 ppb	101.687 %	0.943 ppb
Concentration per Run 2	-0.402 ppb	0.682 ppb	-0.022 ppb	0.911 ppb	104.240 %	0.004 ppb	-0.002 ppb	101.989 %	0.862 ppb
Concentration per Run 3	-0.310 ppb	0.383 ppb	0.001 ppb	0.560 ppb	104.735 %	0.007 ppb	0.008 ppb	112.732 %	0.825 ppb
Recovery Percentage 1	-75.780 %	8.820 %	-0.164 %	44.845 %		1.120 %	0.729 %		21.916 %
Concentration RSD	16.2 %	49.3 %	91.6 %	36.8 %	1.9 %	54.3 %	369.7 %	6.0 %	6.9 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	0.015 ppb	108.565 %	103.136 %	0.313 ppb	0.050 ppb
Concentration per Run 1	0.044 ppb	103.833 %	99.193 %	0.208 ppb	0.054 ppb
Concentration per Run 2	0.000 ppb	109.777 %	102.862 %	0.380 ppb	0.051 ppb
Concentration per Run 3	0.000 ppb	112.085 %	107.352 %	0.350 ppb	0.045 ppb
Recovery Percentage 1	2.922 %			31.300 %	4.995 %
Concentration RSD	173.2 %	3.9 %	4.0 %	29.4 %	9.9 %

Alpha ICPMSQ Data with SRD

6/27/2024 4:21:36 AM

Analysis index:	35	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	L2434679-03 6020TL	Rack	1		
Analysis started at:	6/26/2024 1:41:14 PM	Vial	48		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	96.841 %	107.923 %	0.010 ppb	11,398.369 ppb	9,716.609 ppb	9.036 ppb	3,811.603 ppb	43,140.317 ppb	109.122 %
Concentration per Run 1	98.258 %	106.658 %	0.006 ppb	11,545.215 ppb	9,897.111 ppb	9.389 ppb	3,825.993 ppb	43,199.693 ppb	110.003 %
Concentration per Run 2	97.417 %	112.650 %	0.011 ppb	10,992.009 ppb	9,295.905 ppb	8.337 ppb	3,782.251 ppb	42,052.035 ppb	109.364 %
Concentration per Run 3	94.848 %	104.461 %	0.014 ppb	11,657.885 ppb	9,956.810 ppb	9.383 ppb	3,826.564 ppb	44,169.223 ppb	108.000 %
Concentration RSD	1.8 %	3.9 %	42.6 %	3.1 %	3.8 %	6.7 %	0.7 %	2.5 %	0.9 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.323 ppb	13.039 ppb	70.409 ppb	154.728 ppb	0.362 ppb	12.241 ppb	1.308 ppb	0.481 ppb	104.643 %
Concentration per Run 1	0.270 ppb	13.210 ppb	70.378 ppb	152.884 ppb	0.350 ppb	12.584 ppb	1.471 ppb	0.380 ppb	103.809 %
Concentration per Run 2	0.368 ppb	12.649 ppb	69.273 ppb	150.025 ppb	0.359 ppb	12.111 ppb	1.269 ppb	0.501 ppb	104.701 %
Concentration per Run 3	0.331 ppb	13.258 ppb	71.575 ppb	161.274 ppb	0.378 ppb	12.029 ppb	1.184 ppb	0.561 ppb	105.419 %
Concentration RSD	15.2 %	2.6 %	1.6 %	3.8 %	3.9 %	2.4 %	11.3 %	19.3 %	0.8 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	-0.421 ppb	0.432 ppb	146.057 ppb	1.294 ppb	105.243 %	-0.002 ppb	0.003 ppb	116.741 %	0.204 ppb
Concentration per Run 1	-0.271 ppb	0.246 ppb	142.340 ppb	1.548 ppb	108.790 %	-0.005 ppb	0.003 ppb	129.379 %	0.168 ppb
Concentration per Run 2	-0.556 ppb	-0.020 ppb	147.827 ppb	1.018 ppb	103.490 %	0.002 ppb	-0.002 ppb	110.552 %	0.194 ppb
Concentration per Run 3	-0.435 ppb	1.070 ppb	148.004 ppb	1.314 ppb	103.448 %	-0.004 ppb	0.008 ppb	110.293 %	0.249 ppb
Concentration RSD	34.0 %	131.6 %	2.2 %	20.5 %	2.9 %	164.7 %	163.6 %	9.4 %	20.3 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	45.820 ppb	120.470 %	115.755 %	0.130 ppb	0.058 ppb
Concentration per Run 1	39.767 ppb	134.096 %	128.363 %	0.107 ppb	0.055 ppb
Concentration per Run 2	47.989 ppb	114.399 %	109.905 %	0.147 ppb	0.054 ppb
Concentration per Run 3	49.704 ppb	112.915 %	108.998 %	0.136 ppb	0.063 ppb
Concentration RSD	11.6 %	9.8 %	9.4 %	15.9 %	8.4 %

Alpha ICPMSQ Data with SRD

6/27/2024 4:21:36 AM

Analysis index:	36	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	L2434679-05 6020TL	Rack	1		
Analysis started at:	6/26/2024 1:45:54 PM	Vial	56		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	96.027 %	106.258 %	0.002 ppb	9,475.459 ppb	5,605.730 ppb	25.278 ppb	1,652.650 ppb	16,176.837 ppb	100.386 %
Concentration per Run 1	96.389 %	100.466 %	0.000 ppb	9,920.476 ppb	5,956.144 ppb	29.545 ppb	1,691.054 ppb	16,538.992 ppb	99.918 %
Concentration per Run 2	96.554 %	104.461 %	0.002 ppb	9,438.445 ppb	5,475.449 ppb	21.347 ppb	1,691.115 ppb	16,459.332 ppb	100.800 %
Concentration per Run 3	95.137 %	113.848 %	0.004 ppb	9,067.457 ppb	5,385.597 ppb	24.942 ppb	1,575.780 ppb	15,532.188 ppb	100.439 %
Concentration RSD	0.8 %	6.5 %	96.8 %	4.5 %	5.5 %	16.3 %	4.0 %	3.5 %	0.4 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.210 ppb	0.837 ppb	22.661 ppb	29.363 ppb	0.038 ppb	0.528 ppb	0.514 ppb	1.463 ppb	106.134 %
Concentration per Run 1	0.185 ppb	0.936 ppb	22.844 ppb	23.899 ppb	0.031 ppb	0.642 ppb	0.514 ppb	1.394 ppb	102.276 %
Concentration per Run 2	0.276 ppb	0.778 ppb	23.948 ppb	34.502 ppb	0.047 ppb	0.501 ppb	0.482 ppb	1.518 ppb	102.400 %
Concentration per Run 3	0.170 ppb	0.798 ppb	21.191 ppb	29.689 ppb	0.037 ppb	0.440 ppb	0.546 ppb	1.478 ppb	113.727 %
Concentration RSD	27.2 %	10.3 %	6.1 %	18.1 %	22.1 %	19.6 %	6.2 %	4.3 %	6.2 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	-0.324 ppb	0.361 ppb	64.678 ppb	0.135 ppb	104.616 %	-0.001 ppb	0.000 ppb	111.336 %	0.082 ppb
Concentration per Run 1	-0.293 ppb	0.471 ppb	63.440 ppb	0.145 ppb	102.700 %	0.002 ppb	0.003 ppb	107.230 %	0.100 ppb
Concentration per Run 2	-0.419 ppb	0.678 ppb	63.638 ppb	0.123 ppb	103.780 %	-0.004 ppb	-0.002 ppb	107.869 %	0.071 ppb
Concentration per Run 3	-0.260 ppb	-0.065 ppb	66.955 ppb	0.139 ppb	107.368 %	-0.002 ppb	-0.002 ppb	118.911 %	0.075 ppb
Concentration RSD	26.0 %	106.1 %	3.1 %	8.4 %	2.3 %	267.7 %	8,208.7 %	5.9 %	18.8 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	18.617 ppb	111.656 %	108.453 %	0.044 ppb	0.077 ppb
Concentration per Run 1	19.184 ppb	106.154 %	101.982 %	0.016 ppb	0.083 ppb
Concentration per Run 2	17.036 ppb	111.619 %	109.991 %	0.051 ppb	0.076 ppb
Concentration per Run 3	19.632 ppb	117.195 %	113.386 %	0.064 ppb	0.072 ppb
Concentration RSD	7.5 %	4.9 %	5.4 %	56.9 %	7.3 %

Alpha ICPMSQ Data with SRD

6/27/2024 4:21:36 AM

Analysis index:	37	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	L2434679-06 6020TL	Rack	1		
Analysis started at:	6/26/2024 1:50:33 PM	Vial	57		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	95.390 %	100.466 %	0.020 ppb	11,635.313 ppb	5,558.797 ppb	176.047 ppb	2,018.520 ppb	19,373.114 ppb	99.599 %
Concentration per Run 1	96.344 %	98.469 %	0.020 ppb	11,695.614 ppb	5,665.227 ppb	172.284 ppb	2,012.751 ppb	19,026.484 ppb	100.223 %
Concentration per Run 2	95.994 %	101.664 %	0.014 ppb	11,571.940 ppb	5,491.574 ppb	183.292 ppb	2,050.753 ppb	19,797.164 ppb	100.162 %
Concentration per Run 3	93.833 %	101.265 %	0.024 ppb	11,638.385 ppb	5,519.588 ppb	172.566 ppb	1,992.056 ppb	19,295.695 ppb	98.412 %
Concentration RSD	1.4 %	1.7 %	25.8 %	0.5 %	1.7 %	3.6 %	1.5 %	2.0 %	1.0 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.527 ppb	1.382 ppb	7.125 ppb	180.088 ppb	0.100 ppb	0.774 ppb	0.508 ppb	1.410 ppb	105.512 %
Concentration per Run 1	0.410 ppb	1.607 ppb	6.532 ppb	185.076 ppb	0.088 ppb	0.754 ppb	0.526 ppb	1.326 ppb	103.169 %
Concentration per Run 2	0.497 ppb	1.376 ppb	7.519 ppb	186.986 ppb	0.098 ppb	0.846 ppb	0.478 ppb	1.569 ppb	103.832 %
Concentration per Run 3	0.675 ppb	1.161 ppb	7.325 ppb	168.200 ppb	0.113 ppb	0.721 ppb	0.521 ppb	1.337 ppb	109.537 %
Concentration RSD	25.7 %	16.1 %	7.3 %	5.7 %	12.6 %	8.4 %	5.2 %	9.7 %	3.3 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	-0.250 ppb	0.289 ppb	80.296 ppb	0.196 ppb	102.291 %	0.002 ppb	0.011 ppb	108.491 %	0.053 ppb
Concentration per Run 1	0.091 ppb	0.390 ppb	78.324 ppb	0.171 ppb	99.417 %	0.003 ppb	0.008 ppb	108.001 %	0.028 ppb
Concentration per Run 2	-0.127 ppb	-0.029 ppb	82.343 ppb	0.185 ppb	102.350 %	-0.001 ppb	0.008 ppb	106.431 %	0.066 ppb
Concentration per Run 3	-0.713 ppb	0.507 ppb	80.220 ppb	0.233 ppb	105.107 %	0.003 ppb	0.017 ppb	111.041 %	0.065 ppb
Concentration RSD	166.5 %	97.3 %	2.5 %	16.6 %	2.8 %	156.9 %	47.0 %	2.2 %	40.4 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	20.386 ppb	111.171 %	105.468 %	0.035 ppb	0.231 ppb
Concentration per Run 1	20.849 ppb	106.822 %	99.676 %	0.018 ppb	0.244 ppb
Concentration per Run 2	20.610 ppb	112.189 %	109.694 %	0.042 ppb	0.227 ppb
Concentration per Run 3	19.700 ppb	114.501 %	107.034 %	0.044 ppb	0.220 ppb
Concentration RSD	3.0 %	3.5 %	4.9 %	40.9 %	5.3 %

Alpha ICPMSQ Data with SRD

6/27/2024 4:21:36 AM

Analysis index:	38	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	L2434679-07 6020TL	Rack	1		
Analysis started at:	6/26/2024 1:55:12 PM	Vial	58		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	96.122 %	105.659 %	0.009 ppb	11,387.744 ppb	5,876.349 ppb	3.689 ppb	2,339.546 ppb	14,354.220 ppb	100.427 %
Concentration per Run 1	97.952 %	97.869 %	0.015 ppb	12,193.520 ppb	6,237.611 ppb	5.279 ppb	2,440.241 ppb	15,312.243 ppb	99.867 %
Concentration per Run 2	95.635 %	112.450 %	0.008 ppb	10,893.151 ppb	5,574.838 ppb	3.506 ppb	2,350.416 ppb	13,615.419 ppb	100.775 %
Concentration per Run 3	94.778 %	106.658 %	0.005 ppb	11,076.562 ppb	5,816.600 ppb	2.283 ppb	2,227.981 ppb	14,135.000 ppb	100.639 %
Concentration RSD	1.7 %	6.9 %	51.7 %	6.2 %	5.7 %	40.8 %	4.6 %	6.1 %	0.5 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.157 ppb	0.760 ppb	1.080 ppb	12.333 ppb	0.039 ppb	0.394 ppb	0.820 ppb	0.789 ppb	104.718 %
Concentration per Run 1	0.265 ppb	0.776 ppb	1.149 ppb	15.156 ppb	0.030 ppb	0.418 ppb	0.801 ppb	0.890 ppb	103.643 %
Concentration per Run 2	0.064 ppb	0.761 ppb	1.087 ppb	10.235 ppb	0.032 ppb	0.404 ppb	0.812 ppb	0.669 ppb	104.753 %
Concentration per Run 3	0.143 ppb	0.742 ppb	1.003 ppb	11.607 ppb	0.054 ppb	0.360 ppb	0.846 ppb	0.809 ppb	105.757 %
Concentration RSD	64.2 %	2.2 %	6.8 %	20.6 %	34.3 %	7.7 %	2.9 %	14.2 %	1.0 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	-0.412 ppb	0.271 ppb	106.342 ppb	0.079 ppb	103.057 %	-0.001 ppb	0.010 ppb	109.638 %	-0.030 ppb
Concentration per Run 1	-0.503 ppb	0.206 ppb	105.570 ppb	0.014 ppb	102.298 %	-0.001 ppb	0.003 ppb	107.898 %	-0.005 ppb
Concentration per Run 2	-0.409 ppb	0.075 ppb	106.996 ppb	0.094 ppb	102.067 %	0.000 ppb	0.022 ppb	109.746 %	-0.050 ppb
Concentration per Run 3	-0.325 ppb	0.531 ppb	106.459 ppb	0.129 ppb	104.807 %	0.000 ppb	0.003 ppb	111.269 %	-0.034 ppb
Concentration RSD	21.7 %	86.6 %	0.7 %	74.9 %	1.5 %	93.0 %	116.4 %	1.5 %	77.3 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	30.180 ppb	109.987 %	106.807 %	0.021 ppb	0.030 ppb
Concentration per Run 1	30.994 ppb	109.085 %	103.665 %	-0.006 ppb	0.031 ppb
Concentration per Run 2	30.140 ppb	108.532 %	106.459 %	0.030 ppb	0.028 ppb
Concentration per Run 3	29.406 ppb	112.344 %	110.297 %	0.039 ppb	0.030 ppb
Concentration RSD	2.6 %	1.9 %	3.1 %	113.0 %	6.0 %

Alpha ICPMSQ Data with SRD

6/27/2024 4:21:36 AM

Analysis index:	39	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	L2434679-08 6020TL	Rack	1		
Analysis started at:	6/26/2024 1:59:51 PM	Vial	59		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	96.037 %	106.258 %	-0.002 ppb	7,540.684 ppb	5,077.668 ppb	4.884 ppb	1,702.753 ppb	15,765.587 ppb	98.527 %
Concentration per Run 1	98.170 %	101.065 %	-0.007 ppb	7,916.084 ppb	5,293.685 ppb	4.399 ppb	1,837.421 ppb	16,154.055 ppb	99.966 %
Concentration per Run 2	95.699 %	109.055 %	-0.002 ppb	7,333.697 ppb	5,041.340 ppb	4.675 ppb	1,613.876 ppb	15,602.607 ppb	98.168 %
Concentration per Run 3	94.242 %	108.655 %	0.004 ppb	7,372.271 ppb	4,897.978 ppb	5.576 ppb	1,656.963 ppb	15,540.098 ppb	97.448 %
Concentration RSD	2.1 %	4.2 %	348.4 %	4.3 %	3.9 %	12.6 %	7.0 %	2.1 %	1.3 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.166 ppb	2.142 ppb	1.527 ppb	18.515 ppb	0.049 ppb	1.453 ppb	1.242 ppb	0.732 ppb	107.367 %
Concentration per Run 1	0.113 ppb	2.164 ppb	1.647 ppb	14.779 ppb	0.040 ppb	1.448 ppb	1.035 ppb	0.651 ppb	107.879 %
Concentration per Run 2	0.126 ppb	2.197 ppb	1.492 ppb	19.482 ppb	0.037 ppb	1.411 ppb	1.414 ppb	0.735 ppb	105.811 %
Concentration per Run 3	0.258 ppb	2.065 ppb	1.441 ppb	21.283 ppb	0.069 ppb	1.498 ppb	1.276 ppb	0.810 ppb	108.412 %
Concentration RSD	48.3 %	3.2 %	7.0 %	18.1 %	36.0 %	3.0 %	15.5 %	10.9 %	1.3 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	-0.489 ppb	0.284 ppb	54.858 ppb	0.246 ppb	103.113 %	-0.002 ppb	0.023 ppb	107.741 %	-0.065 ppb
Concentration per Run 1	-0.344 ppb	0.082 ppb	54.013 ppb	0.206 ppb	100.248 %	0.001 ppb	0.027 ppb	108.866 %	-0.068 ppb
Concentration per Run 2	-0.682 ppb	0.260 ppb	55.211 ppb	0.198 ppb	104.637 %	-0.003 ppb	0.018 ppb	105.267 %	-0.048 ppb
Concentration per Run 3	-0.441 ppb	0.512 ppb	55.351 ppb	0.333 ppb	104.455 %	-0.004 ppb	0.022 ppb	109.090 %	-0.079 ppb
Concentration RSD	35.5 %	76.0 %	1.3 %	30.9 %	2.4 %	127.2 %	21.2 %	2.0 %	24.5 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	24.102 ppb	112.141 %	105.582 %	0.021 ppb	0.042 ppb
Concentration per Run 1	23.814 ppb	108.495 %	105.706 %	0.000 ppb	0.041 ppb
Concentration per Run 2	26.463 ppb	116.687 %	102.685 %	0.028 ppb	0.049 ppb
Concentration per Run 3	22.028 ppb	111.242 %	108.355 %	0.036 ppb	0.036 ppb
Concentration RSD	9.3 %	3.7 %	2.7 %	89.4 %	15.1 %

Alpha ICPMSQ Data with SRD

6/27/2024 4:21:36 AM

Analysis index:	40	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	L2434679-09 6020TL	Rack	1		
Analysis started at:	6/26/2024 2:04:31 PM	Vial	60		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	95.777 %	105.127 %	-0.001 ppb	11,773.324 ppb	6,648.934 ppb	16.794 ppb	2,955.085 ppb	34,993.280 ppb	100.876 %
Concentration per Run 1	98.300 %	102.264 %	0.002 ppb	12,017.348 ppb	6,700.931 ppb	17.305 ppb	2,843.866 ppb	35,568.102 ppb	101.810 %
Concentration per Run 2	95.602 %	109.454 %	0.004 ppb	11,403.069 ppb	6,590.613 ppb	15.495 ppb	2,941.522 ppb	33,831.695 ppb	101.495 %
Concentration per Run 3	93.428 %	103.662 %	-0.010 ppb	11,899.556 ppb	6,655.259 ppb	17.583 ppb	3,079.867 ppb	35,580.044 ppb	99.322 %
Concentration RSD	2.5 %	3.6 %	566.5 %	2.8 %	0.8 %	6.8 %	4.0 %	2.9 %	1.3 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.500 ppb	34.432 ppb	14.577 ppb	397.214 ppb	0.997 ppb	36.820 ppb	3.231 ppb	0.927 ppb	106.721 %
Concentration per Run 1	0.475 ppb	34.652 ppb	15.521 ppb	409.441 ppb	1.097 ppb	38.068 ppb	3.222 ppb	1.005 ppb	105.377 %
Concentration per Run 2	0.487 ppb	33.610 ppb	14.101 ppb	384.157 ppb	0.942 ppb	35.735 ppb	3.124 ppb	0.828 ppb	106.932 %
Concentration per Run 3	0.540 ppb	35.034 ppb	14.110 ppb	398.044 ppb	0.953 ppb	36.658 ppb	3.348 ppb	0.947 ppb	107.854 %
Concentration RSD	6.9 %	2.1 %	5.6 %	3.2 %	8.6 %	3.2 %	3.5 %	9.8 %	1.2 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	-0.328 ppb	0.107 ppb	98.428 ppb	3.505 ppb	104.062 %	-0.001 ppb	-0.002 ppb	110.148 %	-0.055 ppb
Concentration per Run 1	-0.174 ppb	0.117 ppb	98.805 ppb	3.373 ppb	100.578 %	-0.001 ppb	-0.002 ppb	105.780 %	-0.065 ppb
Concentration per Run 2	-0.327 ppb	0.240 ppb	98.673 ppb	3.381 ppb	105.795 %	-0.004 ppb	-0.002 ppb	112.818 %	-0.064 ppb
Concentration per Run 3	-0.483 ppb	-0.036 ppb	97.806 ppb	3.761 ppb	105.811 %	0.002 ppb	-0.002 ppb	111.847 %	-0.035 ppb
Concentration RSD	47.0 %	129.1 %	0.6 %	6.3 %	2.9 %	258.3 %	0.0 %	3.5 %	31.6 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	33.971 ppb	111.758 %	105.672 %	0.018 ppb	0.078 ppb
Concentration per Run 1	33.224 ppb	106.644 %	101.813 %	0.006 ppb	0.085 ppb
Concentration per Run 2	33.900 ppb	115.799 %	107.477 %	0.024 ppb	0.075 ppb
Concentration per Run 3	34.790 ppb	112.831 %	107.727 %	0.025 ppb	0.074 ppb
Concentration RSD	2.3 %	4.2 %	3.2 %	59.2 %	7.7 %

Alpha ICPMSQ Data with SRD

6/27/2024 4:21:36 AM

Analysis index:	41	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	L2434679-10 6020TL	Rack	2		
Analysis started at:	6/26/2024 2:09:11 PM	Vial	1		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	93.443 %	102.597 %	0.012 ppb	6,841.763 ppb	2,211.317 ppb	59.007 ppb	2,078.879 ppb	14,537.161 ppb	96.576 %
Concentration per Run 1	95.132 %	104.660 %	0.004 ppb	6,749.282 ppb	2,128.331 ppb	56.630 ppb	2,071.806 ppb	14,272.626 ppb	97.706 %
Concentration per Run 2	93.573 %	105.459 %	0.014 ppb	6,662.363 ppb	2,198.237 ppb	66.302 ppb	2,065.614 ppb	14,357.330 ppb	95.830 %
Concentration per Run 3	91.624 %	97.670 %	0.017 ppb	7,113.644 ppb	2,307.382 ppb	54.090 ppb	2,099.216 ppb	14,981.527 ppb	96.191 %
Concentration RSD	1.9 %	4.2 %	57.8 %	3.5 %	4.1 %	10.9 %	0.9 %	2.7 %	1.0 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.581 ppb	24.303 ppb	11.648 ppb	361.142 ppb	0.634 ppb	20.329 ppb	1.431 ppb	1.188 ppb	103.666 %
Concentration per Run 1	0.474 ppb	23.183 ppb	11.159 ppb	350.396 ppb	0.628 ppb	19.806 ppb	1.476 ppb	1.065 ppb	104.284 %
Concentration per Run 2	0.654 ppb	24.446 ppb	11.896 ppb	380.127 ppb	0.618 ppb	20.436 ppb	1.381 ppb	1.341 ppb	102.095 %
Concentration per Run 3	0.613 ppb	25.279 ppb	11.889 ppb	352.903 ppb	0.656 ppb	20.744 ppb	1.436 ppb	1.157 ppb	104.619 %
Concentration RSD	16.2 %	4.3 %	3.6 %	4.6 %	3.1 %	2.4 %	3.3 %	11.8 %	1.3 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	-0.249 ppb	0.230 ppb	59.590 ppb	1.121 ppb	104.275 %	0.000 ppb	0.022 ppb	108.376 %	-0.037 ppb
Concentration per Run 1	-0.167 ppb	0.230 ppb	58.158 ppb	1.102 ppb	103.140 %	-0.003 ppb	0.013 ppb	107.516 %	-0.041 ppb
Concentration per Run 2	-0.346 ppb	0.103 ppb	60.599 ppb	1.135 ppb	103.636 %	0.002 ppb	0.023 ppb	104.537 %	-0.043 ppb
Concentration per Run 3	-0.234 ppb	0.357 ppb	60.012 ppb	1.126 ppb	106.048 %	0.003 ppb	0.031 ppb	113.076 %	-0.026 ppb
Concentration RSD	36.3 %	55.3 %	2.1 %	1.5 %	1.5 %	834.3 %	40.5 %	4.0 %	25.6 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	49.238 ppb	113.339 %	108.900 %	0.011 ppb	0.153 ppb
Concentration per Run 1	49.040 ppb	109.535 %	105.419 %	-0.005 ppb	0.158 ppb
Concentration per Run 2	48.925 ppb	113.945 %	109.667 %	0.014 ppb	0.143 ppb
Concentration per Run 3	49.748 ppb	116.535 %	111.614 %	0.024 ppb	0.157 ppb
Concentration RSD	0.9 %	3.1 %	2.9 %	132.4 %	5.8 %

Alpha ICPMSQ Data with SRD

6/27/2024 4:21:36 AM

Analysis index:	42	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	L2434679-11 6020TL	Rack	2		
Analysis started at:	6/26/2024 2:13:49 PM	Vial	2		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	94.209 %	103.196 %	0.003 ppb	7,708.723 ppb	5,247.484 ppb	5.959 ppb	1,720.434 ppb	16,326.988 ppb	97.476 %
Concentration per Run 1	95.652 %	102.663 %	0.000 ppb	7,777.135 ppb	5,284.281 ppb	6.268 ppb	1,810.820 ppb	16,733.239 ppb	98.152 %
Concentration per Run 2	94.253 %	97.869 %	0.012 ppb	7,857.497 ppb	5,282.862 ppb	5.895 ppb	1,595.249 ppb	15,847.451 ppb	97.264 %
Concentration per Run 3	92.721 %	109.055 %	-0.005 ppb	7,491.539 ppb	5,175.308 ppb	5.716 ppb	1,755.233 ppb	16,400.273 ppb	97.013 %
Concentration RSD	1.6 %	5.4 %	332.1 %	2.5 %	1.2 %	4.7 %	6.5 %	2.7 %	0.6 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.270 ppb	5.898 ppb	2.698 ppb	62.228 ppb	0.151 ppb	5.024 ppb	0.483 ppb	0.642 ppb	108.104 %
Concentration per Run 1	0.292 ppb	6.473 ppb	2.700 ppb	53.803 ppb	0.152 ppb	5.140 ppb	0.437 ppb	0.714 ppb	103.417 %
Concentration per Run 2	0.237 ppb	5.464 ppb	2.667 ppb	68.952 ppb	0.139 ppb	4.788 ppb	0.524 ppb	0.536 ppb	109.375 %
Concentration per Run 3	0.281 ppb	5.757 ppb	2.727 ppb	63.930 ppb	0.162 ppb	5.144 ppb	0.487 ppb	0.675 ppb	111.520 %
Concentration RSD	10.7 %	8.8 %	1.1 %	12.4 %	7.9 %	4.1 %	9.1 %	14.6 %	3.9 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	-0.412 ppb	0.417 ppb	57.205 ppb	0.464 ppb	104.667 %	-0.002 ppb	0.008 ppb	108.245 %	-0.056 ppb
Concentration per Run 1	-0.125 ppb	0.388 ppb	56.662 ppb	0.377 ppb	102.047 %	-0.005 ppb	0.018 ppb	106.320 %	-0.066 ppb
Concentration per Run 2	-0.488 ppb	0.624 ppb	54.638 ppb	0.619 ppb	103.849 %	-0.002 ppb	-0.002 ppb	105.480 %	-0.040 ppb
Concentration per Run 3	-0.624 ppb	0.239 ppb	60.315 ppb	0.395 ppb	108.106 %	0.000 ppb	0.008 ppb	112.936 %	-0.061 ppb
Concentration RSD	62.7 %	46.6 %	5.0 %	29.0 %	3.0 %	82.2 %	123.2 %	3.8 %	24.9 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	24.464 ppb	112.951 %	110.419 %	0.011 ppb	0.053 ppb
Concentration per Run 1	26.750 ppb	107.900 %	104.996 %	0.000 ppb	0.055 ppb
Concentration per Run 2	23.797 ppb	112.840 %	109.985 %	0.010 ppb	0.050 ppb
Concentration per Run 3	22.846 ppb	118.113 %	116.277 %	0.022 ppb	0.054 ppb
Concentration RSD	8.3 %	4.5 %	5.1 %	98.1 %	4.7 %

Alpha ICPMSQ Data with SRD

6/27/2024 4:21:36 AM

Analysis index:	43	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	L2434679-12 6020TL	Rack	2		
Analysis started at:	6/26/2024 2:18:28 PM	Vial	3		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	96.881 %	104.328 %	-0.004 ppb	-25.578 ppb	1.501 ppb	32.276 ppb	-0.291 ppb	28.269 ppb	100.696 %
Concentration per Run 1	98.311 %	101.664 %	-0.003 ppb	-17.687 ppb	1.304 ppb	33.444 ppb	15.236 ppb	27.107 ppb	100.016 %
Concentration per Run 2	96.748 %	101.465 %	-0.008 ppb	-24.657 ppb	2.555 ppb	30.607 ppb	-12.515 ppb	48.108 ppb	101.504 %
Concentration per Run 3	95.583 %	109.854 %	-0.001 ppb	-34.388 ppb	0.644 ppb	32.778 ppb	-3.595 ppb	9.591 ppb	100.568 %
Concentration RSD	1.4 %	4.6 %	85.8 %	32.8 %	64.6 %	4.6 %	4,868.7 %	68.2 %	0.7 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.019 ppb	0.220 ppb	0.427 ppb	6.672 ppb	0.013 ppb	0.016 ppb	0.180 ppb	0.926 ppb	104.564 %
Concentration per Run 1	-0.055 ppb	0.219 ppb	0.271 ppb	8.868 ppb	0.011 ppb	0.006 ppb	0.281 ppb	1.032 ppb	98.400 %
Concentration per Run 2	-0.010 ppb	0.179 ppb	0.339 ppb	5.232 ppb	0.007 ppb	0.038 ppb	0.148 ppb	0.830 ppb	106.923 %
Concentration per Run 3	0.122 ppb	0.261 ppb	0.670 ppb	5.915 ppb	0.020 ppb	0.004 ppb	0.110 ppb	0.916 ppb	108.368 %
Concentration RSD	476.5 %	18.6 %	50.0 %	29.0 %	53.0 %	118.1 %	50.0 %	10.9 %	5.2 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	-0.492 ppb	0.111 ppb	0.017 ppb	0.038 ppb	104.823 %	-0.002 ppb	0.002 ppb	107.245 %	-0.058 ppb
Concentration per Run 1	-0.014 ppb	0.115 ppb	0.023 ppb	0.057 ppb	101.752 %	0.000 ppb	0.003 ppb	109.247 %	-0.079 ppb
Concentration per Run 2	-0.868 ppb	-0.011 ppb	0.019 ppb	0.028 ppb	106.312 %	-0.004 ppb	-0.002 ppb	105.505 %	-0.062 ppb
Concentration per Run 3	-0.593 ppb	0.229 ppb	0.009 ppb	0.028 ppb	106.406 %	-0.004 ppb	0.003 ppb	106.982 %	-0.034 ppb
Concentration RSD	88.7 %	108.5 %	41.6 %	44.4 %	2.5 %	79.0 %	178.8 %	1.8 %	39.2 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	0.069 ppb	110.426 %	104.172 %	0.003 ppb	0.020 ppb
Concentration per Run 1	0.042 ppb	107.795 %	102.926 %	-0.010 ppb	0.020 ppb
Concentration per Run 2	0.042 ppb	112.202 %	102.598 %	0.003 ppb	0.021 ppb
Concentration per Run 3	0.122 ppb	111.282 %	106.992 %	0.014 ppb	0.020 ppb
Concentration RSD	66.8 %	2.1 %	2.3 %	462.1 %	4.9 %

Alpha ICPMSQ Data with SRD

6/27/2024 4:21:36 AM

Analysis index:	44	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	L2434679-14 6020TL	Rack	2		
Analysis started at:	6/26/2024 2:23:07 PM	Vial	4		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	95.124 %	100.599 %	-0.002 ppb	11,671.980 ppb	5,992.151 ppb	7.189 ppb	2,683.684 ppb	29,181.472 ppb	99.627 %
Concentration per Run 1	97.386 %	103.262 %	-0.003 ppb	11,556.923 ppb	5,917.100 ppb	8.911 ppb	2,603.138 ppb	28,225.539 ppb	101.423 %
Concentration per Run 2	94.815 %	99.667 %	-0.001 ppb	11,742.715 ppb	6,169.798 ppb	7.814 ppb	2,803.071 ppb	30,032.288 ppb	98.431 %
Concentration per Run 3	93.170 %	98.868 %	-0.002 ppb	11,716.301 ppb	5,889.554 ppb	4.843 ppb	2,644.841 ppb	29,286.589 ppb	99.027 %
Concentration RSD	2.2 %	2.3 %	47.0 %	0.9 %	2.6 %	29.3 %	3.9 %	3.1 %	1.6 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.363 ppb	17.193 ppb	5.984 ppb	185.302 ppb	0.429 ppb	16.670 ppb	1.119 ppb	0.506 ppb	106.504 %
Concentration per Run 1	0.449 ppb	16.411 ppb	5.978 ppb	175.641 ppb	0.416 ppb	16.192 ppb	1.142 ppb	0.453 ppb	107.723 %
Concentration per Run 2	0.377 ppb	16.874 ppb	5.429 ppb	190.952 ppb	0.413 ppb	16.615 ppb	1.118 ppb	0.543 ppb	107.981 %
Concentration per Run 3	0.263 ppb	18.292 ppb	6.544 ppb	189.315 ppb	0.458 ppb	17.204 ppb	1.096 ppb	0.523 ppb	103.806 %
Concentration RSD	25.8 %	5.7 %	9.3 %	4.5 %	5.9 %	3.0 %	2.1 %	9.4 %	2.2 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	-0.590 ppb	0.131 ppb	88.332 ppb	1.592 ppb	101.879 %	-0.004 ppb	0.002 ppb	103.369 %	-0.088 ppb
Concentration per Run 1	-0.505 ppb	0.215 ppb	88.096 ppb	1.289 ppb	103.143 %	-0.003 ppb	-0.002 ppb	104.387 %	-0.087 ppb
Concentration per Run 2	-0.778 ppb	0.240 ppb	90.499 ppb	1.751 ppb	101.756 %	-0.005 ppb	0.003 ppb	104.995 %	-0.069 ppb
Concentration per Run 3	-0.487 ppb	-0.062 ppb	86.400 ppb	1.735 ppb	100.737 %	-0.005 ppb	0.003 ppb	100.725 %	-0.109 ppb
Concentration RSD	27.6 %	128.2 %	2.3 %	16.5 %	1.2 %	14.9 %	171.2 %	2.2 %	22.4 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	24.073 ppb	111.560 %	104.204 %	0.003 ppb	0.024 ppb
Concentration per Run 1	25.174 ppb	110.611 %	103.452 %	-0.005 ppb	0.023 ppb
Concentration per Run 2	23.910 ppb	111.981 %	106.555 %	0.004 ppb	0.023 ppb
Concentration per Run 3	23.135 ppb	112.087 %	102.606 %	0.010 ppb	0.026 ppb
Concentration RSD	4.3 %	0.7 %	2.0 %	265.4 %	7.2 %

Alpha ICPMSQ Data with SRD

6/27/2024 4:21:36 AM

Analysis index:	45	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	CCV	Rack	0		
Analysis started at:	6/26/2024 2:27:45 PM	Vial	9		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	89.692 %	102.463 %	60.400 ppb	5,601.494 ppb	5,641.560 ppb	57.238 ppb	5,589.171 ppb	5,582.312 ppb	103.861 %
Concentration per Run 1	91.046 %	99.667 %	60.715 ppb	5,902.289 ppb	5,878.124 ppb	59.369 ppb	5,593.164 ppb	5,791.247 ppb	103.902 %
Concentration per Run 2	89.614 %	108.256 %	60.612 ppb	5,512.951 ppb	5,586.047 ppb	55.770 ppb	5,401.523 ppb	5,475.947 ppb	103.859 %
Concentration per Run 3	88.416 %	99.467 %	59.874 ppb	5,389.243 ppb	5,460.509 ppb	56.575 ppb	5,772.827 ppb	5,479.743 ppb	103.822 %
Recovery Percentage 1			100.667 %	93.358 %	94.026 %	95.397 %	93.153 %	93.039 %	
Concentration RSD	1.5 %	4.9 %	0.8 %	4.8 %	3.8 %	3.3 %	3.3 %	3.2 %	0.0 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	58.223 ppb	58.019 ppb	55.719 ppb	5,657.972 ppb	57.074 ppb	55.254 ppb	56.470 ppb	58.039 ppb	107.456 %
Concentration per Run 1	58.678 ppb	56.441 ppb	56.152 ppb	5,585.922 ppb	56.433 ppb	54.442 ppb	56.720 ppb	57.717 ppb	111.099 %
Concentration per Run 2	58.343 ppb	59.106 ppb	55.641 ppb	5,781.707 ppb	57.633 ppb	56.931 ppb	56.249 ppb	58.107 ppb	106.875 %
Concentration per Run 3	57.649 ppb	58.509 ppb	55.365 ppb	5,606.286 ppb	57.157 ppb	54.389 ppb	56.442 ppb	58.292 ppb	104.395 %
Recovery Percentage 1	97.039 %	96.698 %	92.865 %	94.300 %	95.124 %	92.090 %	94.117 %	96.731 %	
Concentration RSD	0.9 %	2.4 %	0.7 %	1.9 %	1.1 %	2.6 %	0.4 %	0.5 %	3.2 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	57.968 ppb	57.495 ppb	58.486 ppb	58.573 ppb	101.514 %	59.425 ppb	59.197 ppb	104.467 %	54.476 ppb
Concentration per Run 1	56.902 ppb	60.020 ppb	58.195 ppb	56.259 ppb	102.742 %	59.181 ppb	58.775 ppb	108.200 %	53.776 ppb
Concentration per Run 2	58.837 ppb	56.265 ppb	59.861 ppb	59.352 ppb	102.755 %	59.573 ppb	59.039 ppb	106.709 %	55.036 ppb
Concentration per Run 3	58.166 ppb	56.200 ppb	57.402 ppb	60.108 ppb	99.044 %	59.521 ppb	59.778 ppb	98.493 %	54.617 ppb
Recovery Percentage 1	96.614 %	95.825 %	97.477 %	97.621 %		99.042 %	98.662 %		90.794 %
Concentration RSD	1.7 %	3.8 %	2.1 %	3.5 %	2.1 %	0.4 %	0.9 %	5.0 %	1.2 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	63.326 ppb	112.093 %	104.166 %	64.598 ppb	65.314 ppb
Concentration per Run 1	63.915 ppb	113.763 %	104.292 %	64.533 ppb	64.364 ppb
Concentration per Run 2	66.264 ppb	113.069 %	106.700 %	64.102 ppb	65.417 ppb
Concentration per Run 3	59.800 ppb	109.446 %	101.506 %	65.159 ppb	66.161 ppb
Recovery Percentage 1	105.544 %			107.663 %	108.856 %
Concentration RSD	5.2 %	2.1 %	2.5 %	0.8 %	1.4 %

Alpha ICPMSQ Data with SRD

6/27/2024 4:21:36 AM

Analysis index:	46	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	CCB	Rack	0		
Analysis started at:	6/26/2024 2:32:28 PM	Vial	10		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	88.347 %	104.261 %	0.000 ppb	-44.584 ppb	-0.333 ppb	-0.185 ppb	-8.973 ppb	-2.756 ppb	90.139 %
Concentration per Run 1	89.840 %	107.856 %	-0.003 ppb	-48.302 ppb	-0.123 ppb	-1.045 ppb	-1.650 ppb	-12.052 ppb	91.026 %
Concentration per Run 2	88.828 %	95.273 %	-0.005 ppb	-38.456 ppb	0.537 ppb	0.039 ppb	-12.917 ppb	-6.830 ppb	89.599 %
Concentration per Run 3	86.374 %	109.654 %	0.008 ppb	-46.994 ppb	-1.411 ppb	0.450 ppb	-12.353 ppb	10.615 ppb	89.792 %
Recovery Percentage 1			0.033 %	-44.584 %	-0.475 %	-1.854 %	-8.973 %	-2.756 %	
Concentration RSD	2.0 %	7.5 %	4,288.5 %	12.0 %	297.9 %	416.7 %	70.8 %	430.8 %	0.9 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	-0.012 ppb	-0.002 ppb	0.010 ppb	11.531 ppb	0.006 ppb	-0.072 ppb	0.002 ppb	-0.050 ppb	99.970 %
Concentration per Run 1	-0.040 ppb	0.029 ppb	0.084 ppb	12.845 ppb	0.005 ppb	-0.057 ppb	0.006 ppb	-0.056 ppb	100.188 %
Concentration per Run 2	-0.002 ppb	-0.034 ppb	-0.106 ppb	13.614 ppb	-0.001 ppb	-0.088 ppb	0.017 ppb	-0.048 ppb	95.595 %
Concentration per Run 3	0.005 ppb	-0.002 ppb	0.051 ppb	8.133 ppb	0.013 ppb	-0.072 ppb	-0.017 ppb	-0.047 ppb	104.128 %
Recovery Percentage 1	-0.245 %	-0.218 %	0.987 %	23.061 %	1.112 %	-3.619 %	0.221 %	-1.008 %	
Concentration RSD	195.8 %	1,457.7 %	1,029.5 %	25.7 %	120.8 %	20.9 %	783.0 %	9.2 %	4.3 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	-0.455 ppb	0.421 ppb	-0.009 ppb	0.838 ppb	101.419 %	0.002 ppb	0.005 ppb	101.411 %	0.746 ppb
Concentration per Run 1	-0.276 ppb	0.676 ppb	0.004 ppb	0.898 ppb	101.120 %	0.008 ppb	0.003 ppb	99.985 %	0.701 ppb
Concentration per Run 2	-0.482 ppb	-0.058 ppb	-0.020 ppb	0.803 ppb	100.057 %	-0.001 ppb	0.009 ppb	101.705 %	0.857 ppb
Concentration per Run 3	-0.608 ppb	0.643 ppb	-0.011 ppb	0.813 ppb	103.081 %	-0.001 ppb	0.003 ppb	102.542 %	0.681 ppb
Recovery Percentage 1	-91.064 %	8.411 %	-0.092 %	41.899 %		0.456 %	2.552 %		18.648 %
Concentration RSD	36.8 %	98.6 %	128.6 %	6.2 %	1.5 %	286.7 %	57.7 %	1.3 %	12.9 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	0.015 ppb	109.253 %	102.884 %	0.281 ppb	0.029 ppb
Concentration per Run 1	0.000 ppb	109.108 %	103.923 %	0.177 ppb	0.034 ppb
Concentration per Run 2	0.044 ppb	104.296 %	98.314 %	0.361 ppb	0.029 ppb
Concentration per Run 3	0.000 ppb	114.355 %	106.415 %	0.304 ppb	0.023 ppb
Recovery Percentage 1	2.948 %			28.056 %	2.870 %
Concentration RSD	173.2 %	4.6 %	4.0 %	33.5 %	20.4 %

Alpha ICPMSQ Data with SRD

6/27/2024 4:21:36 AM

Analysis index:	47	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	WG1939202-1 6020SL	Rack	2		
Analysis started at:	6/26/2024 2:40:53 PM	Vial	11		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	97.346 %	104.594 %	0.000 ppb	-45.169 ppb	1.894 ppb	1.836 ppb	-15.822 ppb	17.446 ppb	96.751 %
Concentration per Run 1	99.221 %	106.658 %	-0.006 ppb	-42.518 ppb	1.518 ppb	2.563 ppb	-1.450 ppb	-6.485 ppb	98.376 %
Concentration per Run 2	97.581 %	106.458 %	0.000 ppb	-54.279 ppb	3.304 ppb	0.645 ppb	-32.110 ppb	21.562 ppb	95.605 %
Concentration per Run 3	95.238 %	100.666 %	0.007 ppb	-38.710 ppb	0.859 ppb	2.300 ppb	-13.906 ppb	37.262 ppb	96.271 %
Concentration RSD	2.1 %	3.3 %	2,048.9 %	18.0 %	66.8 %	56.6 %	97.5 %	127.0 %	1.5 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	-0.021 ppb	-0.083 ppb	-0.037 ppb	-0.511 ppb	0.003 ppb	-0.044 ppb	0.056 ppb	0.482 ppb	104.858 %
Concentration per Run 1	0.002 ppb	-0.086 ppb	0.018 ppb	-1.295 ppb	0.001 ppb	-0.017 ppb	0.041 ppb	0.470 ppb	111.083 %
Concentration per Run 2	-0.009 ppb	-0.099 ppb	-0.017 ppb	-1.162 ppb	0.002 ppb	-0.051 ppb	0.033 ppb	0.544 ppb	102.694 %
Concentration per Run 3	-0.055 ppb	-0.065 ppb	-0.111 ppb	0.926 ppb	0.005 ppb	-0.065 ppb	0.093 ppb	0.432 ppb	100.797 %
Concentration RSD	146.0 %	20.3 %	182.4 %	244.0 %	77.4 %	56.5 %	58.5 %	11.8 %	5.2 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	-0.447 ppb	0.086 ppb	-0.010 ppb	0.030 ppb	105.757 %	-0.001 ppb	-0.002 ppb	111.611 %	0.065 ppb
Concentration per Run 1	-0.468 ppb	0.071 ppb	-0.001 ppb	-0.004 ppb	108.623 %	-0.002 ppb	-0.002 ppb	124.285 %	0.068 ppb
Concentration per Run 2	-0.410 ppb	0.110 ppb	-0.018 ppb	0.079 ppb	106.301 %	0.002 ppb	-0.002 ppb	108.019 %	0.050 ppb
Concentration per Run 3	-0.465 ppb	0.078 ppb	-0.011 ppb	0.015 ppb	102.347 %	-0.002 ppb	-0.002 ppb	102.528 %	0.078 ppb
Concentration RSD	7.3 %	24.2 %	88.0 %	145.2 %	3.0 %	297.5 %	0.0 %	10.1 %	22.2 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	0.014 ppb	114.857 %	109.952 %	0.052 ppb	0.012 ppb
Concentration per Run 1	0.000 ppb	124.417 %	119.476 %	0.028 ppb	0.012 ppb
Concentration per Run 2	0.000 ppb	110.486 %	107.105 %	0.063 ppb	0.014 ppb
Concentration per Run 3	0.042 ppb	109.668 %	103.275 %	0.065 ppb	0.010 ppb
Concentration RSD	173.2 %	7.2 %	7.7 %	40.0 %	18.2 %

Alpha ICPMSQ Data with SRD

6/27/2024 4:21:36 AM

Analysis index:	48	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	WG1939202-2d10 6020SL	Rack	2		
Analysis started at:	6/26/2024 2:46:49 PM	Vial	12		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	92.353 %	102.131 %	5.260 ppb	944.265 ppb	955.420 ppb	184.017 ppb	959.855 ppb	1,003.043 ppb	94.561 %
Concentration per Run 1	94.249 %	106.059 %	5.226 ppb	869.968 ppb	866.987 ppb	169.838 ppb	956.489 ppb	971.915 ppb	94.736 %
Concentration per Run 2	92.574 %	97.869 %	5.242 ppb	1,005.134 ppb	1,022.870 ppb	197.355 ppb	990.703 ppb	1,049.344 ppb	94.582 %
Concentration per Run 3	90.237 %	102.463 %	5.311 ppb	957.694 ppb	976.403 ppb	184.858 ppb	932.374 ppb	987.871 ppb	94.366 %
Concentration RSD	2.2 %	4.0 %	0.9 %	7.3 %	8.4 %	7.5 %	3.1 %	4.1 %	0.2 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	49.705 ppb	19.808 ppb	46.588 ppb	95.317 ppb	49.367 ppb	46.596 ppb	24.596 ppb	49.856 ppb	103.223 %
Concentration per Run 1	47.265 ppb	19.293 ppb	44.155 ppb	92.682 ppb	48.140 ppb	46.346 ppb	24.433 ppb	47.429 ppb	102.219 %
Concentration per Run 2	51.465 ppb	20.130 ppb	47.308 ppb	94.184 ppb	50.141 ppb	46.598 ppb	24.795 ppb	51.030 ppb	104.227 %
Concentration per Run 3	50.385 ppb	20.001 ppb	48.300 ppb	99.084 ppb	49.819 ppb	46.843 ppb	24.560 ppb	51.109 ppb	103.223 %
Concentration RSD	4.4 %	2.3 %	4.6 %	3.5 %	2.2 %	0.5 %	0.7 %	4.2 %	1.0 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	11.593 ppb	12.023 ppb	98.018 ppb	99.255 ppb	103.997 %	5.008 ppb	5.259 ppb	107.490 %	42.921 ppb
Concentration per Run 1	11.159 ppb	9.499 ppb	93.001 ppb	94.174 ppb	102.225 %	5.042 ppb	5.185 ppb	101.760 %	41.824 ppb
Concentration per Run 2	11.650 ppb	13.247 ppb	99.000 ppb	100.364 ppb	107.318 %	4.838 ppb	5.084 ppb	113.636 %	41.691 ppb
Concentration per Run 3	11.970 ppb	13.323 ppb	102.054 ppb	103.226 ppb	102.448 %	5.144 ppb	5.509 ppb	107.073 %	45.248 ppb
Concentration RSD	3.5 %	18.2 %	4.7 %	4.7 %	2.8 %	3.1 %	4.2 %	5.5 %	4.7 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	204.676 ppb	113.210 %	108.550 %	12.782 ppb	57.014 ppb
Concentration per Run 1	196.835 ppb	110.763 %	105.265 %	12.548 ppb	56.254 ppb
Concentration per Run 2	209.108 ppb	114.290 %	109.328 %	12.895 ppb	57.268 ppb
Concentration per Run 3	208.084 ppb	114.577 %	111.058 %	12.904 ppb	57.521 ppb
Concentration RSD	3.3 %	1.9 %	2.7 %	1.6 %	1.2 %

Alpha ICPMSQ Data with SRD

6/27/2024 4:21:36 AM

Analysis index:	49	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	L2434740-01 6020TL	Rack	2		
Analysis started at:	6/26/2024 2:51:28 PM	Vial	5		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	89.386 %	101.531 %	0.009 ppb	8,719.624 ppb	32,249.855 ppb	28.334 ppb	8,790.044 ppb	131,613.584 ppb	104.849 %
Concentration per Run 1	90.989 %	98.469 %	0.004 ppb	8,730.813 ppb	32,286.239 ppb	31.222 ppb	8,534.748 ppb	131,822.731 ppb	104.687 %
Concentration per Run 2	89.558 %	100.266 %	0.004 ppb	8,852.935 ppb	32,723.475 ppb	28.852 ppb	9,168.496 ppb	135,145.444 ppb	105.972 %
Concentration per Run 3	87.613 %	105.859 %	0.019 ppb	8,575.122 ppb	31,739.849 ppb	24.928 ppb	8,666.888 ppb	127,872.576 ppb	103.888 %
Concentration RSD	1.9 %	3.8 %	96.5 %	1.6 %	1.5 %	11.2 %	3.8 %	2.8 %	1.0 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.236 ppb	0.347 ppb	238.124 ppb	53,141.503 ppb	10.508 ppb	13.683 ppb	0.591 ppb	3.939 ppb	100.312 %
Concentration per Run 1	0.183 ppb	0.342 ppb	237.531 ppb	54,141.709 ppb	10.539 ppb	14.204 ppb	0.597 ppb	4.008 ppb	95.343 %
Concentration per Run 2	0.301 ppb	0.346 ppb	239.075 ppb	53,538.769 ppb	10.868 ppb	13.873 ppb	0.594 ppb	4.098 ppb	100.774 %
Concentration per Run 3	0.222 ppb	0.353 ppb	237.766 ppb	51,744.032 ppb	10.117 ppb	12.971 ppb	0.582 ppb	3.711 ppb	104.820 %
Concentration RSD	25.6 %	1.6 %	0.3 %	2.3 %	3.6 %	4.7 %	1.4 %	5.1 %	4.7 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	92.240 ppb	0.359 ppb	279.000 ppb	2.513 ppb	101.365 %	0.000 ppb	0.011 ppb	107.053 %	1.349 ppb
Concentration per Run 1	92.517 ppb	0.437 ppb	271.970 ppb	2.639 ppb	97.340 %	0.001 ppb	0.019 ppb	103.111 %	1.511 ppb
Concentration per Run 2	95.147 ppb	0.113 ppb	287.921 ppb	2.640 ppb	102.495 %	0.000 ppb	-0.002 ppb	107.607 %	1.376 ppb
Concentration per Run 3	89.057 ppb	0.527 ppb	277.109 ppb	2.259 ppb	104.260 %	-0.001 ppb	0.017 ppb	110.440 %	1.160 ppb
Concentration RSD	3.3 %	60.7 %	2.9 %	8.7 %	3.5 %	985.6 %	99.3 %	3.5 %	13.1 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	481.731 ppb	115.635 %	108.414 %	0.055 ppb	0.452 ppb
Concentration per Run 1	473.061 ppb	109.668 %	104.456 %	0.045 ppb	0.469 ppb
Concentration per Run 2	479.671 ppb	118.232 %	109.606 %	0.062 ppb	0.454 ppb
Concentration per Run 3	492.459 ppb	119.006 %	111.180 %	0.059 ppb	0.432 ppb
Concentration RSD	2.0 %	4.5 %	3.2 %	16.5 %	4.1 %

Alpha ICPMSQ Data with SRD

6/27/2024 4:21:36 AM

Analysis index:	50	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	L2434740-02 6020TL	Rack	2		
Analysis started at:	6/26/2024 2:56:07 PM	Vial	6		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	88.902 %	95.473 %	0.015 ppb	53,412.632 ppb	11,148.828 ppb	271.219 ppb	1,069.943 ppb	55,292.261 ppb	97.341 %
Concentration per Run 1	90.582 %	93.276 %	0.013 ppb	53,470.275 ppb	11,133.710 ppb	270.295 ppb	1,072.556 ppb	55,746.930 ppb	97.889 %
Concentration per Run 2	88.509 %	97.869 %	0.010 ppb	53,084.305 ppb	11,049.897 ppb	268.913 ppb	1,054.277 ppb	53,694.541 ppb	97.751 %
Concentration per Run 3	87.616 %	95.273 %	0.020 ppb	53,683.316 ppb	11,262.878 ppb	274.449 ppb	1,082.995 ppb	56,435.310 ppb	96.383 %
Concentration RSD	1.7 %	2.4 %	35.4 %	0.6 %	1.0 %	1.1 %	1.4 %	2.6 %	0.9 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.670 ppb	0.899 ppb	865.787 ppb	9,385.255 ppb	0.473 ppb	0.723 ppb	2.843 ppb	6.727 ppb	100.844 %
Concentration per Run 1	0.768 ppb	0.863 ppb	886.640 ppb	9,641.660 ppb	0.490 ppb	0.699 ppb	2.887 ppb	6.709 ppb	96.168 %
Concentration per Run 2	0.694 ppb	0.888 ppb	843.279 ppb	9,058.316 ppb	0.501 ppb	0.576 ppb	2.755 ppb	6.515 ppb	104.249 %
Concentration per Run 3	0.549 ppb	0.948 ppb	867.441 ppb	9,455.789 ppb	0.427 ppb	0.894 ppb	2.888 ppb	6.956 ppb	102.113 %
Concentration RSD	16.6 %	4.8 %	2.5 %	3.2 %	8.4 %	22.2 %	2.7 %	3.3 %	4.2 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	5.218 ppb	0.339 ppb	111.136 ppb	0.742 ppb	101.290 %	0.041 ppb	0.068 ppb	108.737 %	0.517 ppb
Concentration per Run 1	5.538 ppb	0.554 ppb	109.404 ppb	0.557 ppb	98.814 %	0.040 ppb	0.093 ppb	105.193 %	0.576 ppb
Concentration per Run 2	5.140 ppb	0.376 ppb	110.664 ppb	0.834 ppb	102.881 %	0.038 ppb	0.046 ppb	111.164 %	0.490 ppb
Concentration per Run 3	4.975 ppb	0.086 ppb	113.342 ppb	0.834 ppb	102.176 %	0.044 ppb	0.065 ppb	109.855 %	0.485 ppb
Concentration RSD	5.6 %	69.8 %	1.8 %	21.5 %	2.1 %	7.2 %	34.9 %	2.9 %	9.9 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	51.729 ppb	114.026 %	109.784 %	0.031 ppb	3.384 ppb
Concentration per Run 1	51.457 ppb	111.802 %	107.315 %	0.011 ppb	3.325 ppb
Concentration per Run 2	51.388 ppb	114.426 %	108.729 %	0.041 ppb	3.472 ppb
Concentration per Run 3	52.343 ppb	115.849 %	113.308 %	0.043 ppb	3.356 ppb
Concentration RSD	1.0 %	1.8 %	2.9 %	56.9 %	2.3 %

Alpha ICPMSQ Data with SRD

6/27/2024 4:21:36 AM

Analysis index:	51	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	L2434740-03 6020TL	Rack	2		
Analysis started at:	6/26/2024 3:00:46 PM	Vial	7		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	95.089 %	100.666 %	0.016 ppb	42,176.484 ppb	14,572.052 ppb	139.811 ppb	1,622.547 ppb	40,944.418 ppb	100.505 %
Concentration per Run 1	96.965 %	104.661 %	0.006 ppb	40,562.690 ppb	14,145.096 ppb	135.452 ppb	1,652.201 ppb	41,354.036 ppb	100.510 %
Concentration per Run 2	94.076 %	99.268 %	0.012 ppb	42,581.557 ppb	14,512.351 ppb	144.318 ppb	1,575.316 ppb	40,082.798 ppb	101.237 %
Concentration per Run 3	94.226 %	98.069 %	0.029 ppb	43,385.206 ppb	15,058.709 ppb	139.662 ppb	1,640.123 ppb	41,396.421 ppb	99.767 %
Concentration RSD	1.7 %	3.5 %	75.3 %	3.4 %	3.2 %	3.2 %	2.5 %	1.8 %	0.7 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	1.082 ppb	0.601 ppb	113.767 ppb	1,124.363 ppb	0.221 ppb	0.430 ppb	1.569 ppb	3.003 ppb	104.854 %
Concentration per Run 1	2.100 ppb	0.562 ppb	114.189 ppb	1,143.627 ppb	0.211 ppb	0.485 ppb	1.558 ppb	3.216 ppb	101.814 %
Concentration per Run 2	0.487 ppb	0.635 ppb	113.109 ppb	1,073.274 ppb	0.237 ppb	0.488 ppb	1.668 ppb	2.901 ppb	107.867 %
Concentration per Run 3	0.659 ppb	0.605 ppb	114.003 ppb	1,156.188 ppb	0.214 ppb	0.317 ppb	1.481 ppb	2.891 ppb	104.880 %
Concentration RSD	81.9 %	6.0 %	0.5 %	4.0 %	6.4 %	22.7 %	6.0 %	6.2 %	2.9 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.726 ppb	0.480 ppb	63.118 ppb	0.459 ppb	103.544 %	0.016 ppb	0.028 ppb	112.284 %	0.290 ppb
Concentration per Run 1	0.885 ppb	0.367 ppb	63.625 ppb	0.380 ppb	101.994 %	0.013 ppb	0.008 ppb	112.722 %	0.267 ppb
Concentration per Run 2	0.601 ppb	0.724 ppb	61.803 ppb	0.462 ppb	104.425 %	0.020 ppb	0.045 ppb	113.729 %	0.350 ppb
Concentration per Run 3	0.691 ppb	0.349 ppb	63.925 ppb	0.536 ppb	104.211 %	0.015 ppb	0.032 ppb	110.402 %	0.255 ppb
Concentration RSD	20.0 %	44.1 %	1.8 %	17.1 %	1.3 %	23.2 %	66.9 %	1.5 %	17.7 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	31.960 ppb	113.389 %	110.864 %	0.013 ppb	1.971 ppb
Concentration per Run 1	31.764 ppb	111.739 %	111.692 %	-0.001 ppb	1.976 ppb
Concentration per Run 2	30.951 ppb	113.691 %	111.957 %	0.028 ppb	1.928 ppb
Concentration per Run 3	33.164 ppb	114.736 %	108.943 %	0.011 ppb	2.008 ppb
Concentration RSD	3.5 %	1.3 %	1.5 %	109.6 %	2.0 %

Alpha ICPMSQ Data with SRD

6/27/2024 4:21:36 AM

Analysis index:	52	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	L2434740-04 6020TL	Rack	2		
Analysis started at:	6/26/2024 3:05:24 PM	Vial	8		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	97.011 %	104.261 %	0.004 ppb	32,035.327 ppb	14,129.964 ppb	93.635 ppb	1,938.008 ppb	37,490.883 ppb	102.132 %
Concentration per Run 1	98.708 %	106.458 %	-0.001 ppb	32,379.695 ppb	13,844.176 ppb	95.121 ppb	1,777.415 ppb	36,275.480 ppb	101.951 %
Concentration per Run 2	97.392 %	99.467 %	0.005 ppb	33,136.928 ppb	14,285.567 ppb	94.313 ppb	2,132.634 ppb	39,096.153 ppb	103.039 %
Concentration per Run 3	94.934 %	106.858 %	0.008 ppb	30,589.358 ppb	14,260.148 ppb	91.470 ppb	1,903.974 ppb	37,101.015 ppb	101.406 %
Concentration RSD	2.0 %	4.0 %	106.5 %	4.1 %	1.8 %	2.0 %	9.3 %	3.9 %	0.8 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.469 ppb	0.456 ppb	128.167 ppb	656.432 ppb	0.219 ppb	0.401 ppb	1.587 ppb	2.625 ppb	107.446 %
Concentration per Run 1	0.392 ppb	0.439 ppb	127.334 ppb	659.157 ppb	0.227 ppb	0.289 ppb	1.678 ppb	2.321 ppb	109.914 %
Concentration per Run 2	0.473 ppb	0.591 ppb	132.955 ppb	677.193 ppb	0.208 ppb	0.534 ppb	1.766 ppb	2.949 ppb	102.996 %
Concentration per Run 3	0.543 ppb	0.337 ppb	124.212 ppb	632.947 ppb	0.222 ppb	0.380 ppb	1.315 ppb	2.605 ppb	109.429 %
Concentration RSD	16.1 %	28.1 %	3.5 %	3.4 %	4.4 %	30.8 %	15.1 %	12.0 %	3.6 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.461 ppb	0.405 ppb	58.570 ppb	0.337 ppb	103.462 %	0.013 ppb	0.024 ppb	111.273 %	0.204 ppb
Concentration per Run 1	0.787 ppb	0.615 ppb	57.561 ppb	0.342 ppb	101.007 %	0.016 ppb	0.032 ppb	108.254 %	0.111 ppb
Concentration per Run 2	0.512 ppb	0.362 ppb	60.186 ppb	0.260 ppb	104.402 %	0.009 ppb	0.017 ppb	114.358 %	0.237 ppb
Concentration per Run 3	0.084 ppb	0.236 ppb	57.962 ppb	0.408 ppb	104.978 %	0.014 ppb	0.022 ppb	111.207 %	0.265 ppb
Concentration RSD	76.9 %	47.8 %	2.4 %	22.0 %	2.1 %	28.2 %	33.3 %	2.7 %	40.1 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	15.908 ppb	111.186 %	108.487 %	0.009 ppb	1.114 ppb
Concentration per Run 1	15.549 ppb	110.366 %	106.810 %	0.000 ppb	1.142 ppb
Concentration per Run 2	16.306 ppb	112.835 %	108.520 %	0.014 ppb	1.098 ppb
Concentration per Run 3	15.869 ppb	110.356 %	110.132 %	0.012 ppb	1.102 ppb
Concentration RSD	2.4 %	1.3 %	1.5 %	86.9 %	2.2 %

Alpha ICPMSQ Data with SRD

6/27/2024 4:21:36 AM

Analysis index:	53	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	L2434740-05 6020TL	Rack	2		
Analysis started at:	6/26/2024 3:10:03 PM	Vial	9		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	99.333 %	102.530 %	0.006 ppb	33,905.855 ppb	14,008.906 ppb	53.890 ppb	2,038.516 ppb	35,154.082 ppb	103.657 %
Concentration per Run 1	101.753 %	95.672 %	-0.002 ppb	34,187.137 ppb	15,067.771 ppb	57.819 ppb	2,075.646 ppb	35,826.960 ppb	104.006 %
Concentration per Run 2	99.195 %	110.852 %	0.015 ppb	32,869.423 ppb	13,062.856 ppb	49.379 ppb	1,970.696 ppb	34,606.229 ppb	104.121 %
Concentration per Run 3	97.052 %	101.065 %	0.005 ppb	34,661.006 ppb	13,896.091 ppb	54.473 ppb	2,069.207 ppb	35,029.057 ppb	102.844 %
Concentration RSD	2.4 %	7.5 %	150.6 %	2.7 %	7.2 %	7.9 %	2.9 %	1.8 %	0.7 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.266 ppb	0.302 ppb	120.956 ppb	410.434 ppb	0.177 ppb	0.318 ppb	2.179 ppb	3.160 ppb	112.726 %
Concentration per Run 1	0.311 ppb	0.254 ppb	118.773 ppb	413.984 ppb	0.205 ppb	0.329 ppb	2.299 ppb	3.237 ppb	111.596 %
Concentration per Run 2	0.221 ppb	0.323 ppb	120.698 ppb	421.229 ppb	0.205 ppb	0.387 ppb	2.145 ppb	2.994 ppb	110.809 %
Concentration per Run 3	0.265 ppb	0.327 ppb	123.396 ppb	396.087 ppb	0.121 ppb	0.238 ppb	2.093 ppb	3.251 ppb	115.772 %
Concentration RSD	16.9 %	13.6 %	1.9 %	3.2 %	27.4 %	23.6 %	4.9 %	4.6 %	2.4 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.055 ppb	0.219 ppb	56.757 ppb	0.290 ppb	104.459 %	0.003 ppb	0.011 ppb	109.014 %	0.107 ppb
Concentration per Run 1	0.279 ppb	0.079 ppb	56.511 ppb	0.284 ppb	103.374 %	0.007 ppb	0.013 ppb	107.301 %	0.066 ppb
Concentration per Run 2	0.248 ppb	0.478 ppb	57.295 ppb	0.400 ppb	104.042 %	0.002 ppb	0.017 ppb	110.659 %	0.125 ppb
Concentration per Run 3	-0.364 ppb	0.099 ppb	56.465 ppb	0.187 ppb	105.962 %	-0.001 ppb	0.003 ppb	109.081 %	0.130 ppb
Concentration RSD	663.7 %	102.9 %	0.8 %	36.7 %	1.3 %	171.4 %	65.5 %	1.5 %	33.0 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	21.161 ppb	109.877 %	105.232 %	0.006 ppb	0.648 ppb
Concentration per Run 1	20.946 ppb	107.214 %	103.573 %	-0.009 ppb	0.659 ppb
Concentration per Run 2	21.839 ppb	107.918 %	103.522 %	0.010 ppb	0.649 ppb
Concentration per Run 3	20.697 ppb	114.500 %	108.601 %	0.016 ppb	0.636 ppb
Concentration RSD	2.8 %	3.7 %	2.8 %	230.4 %	1.7 %

Alpha ICPMSQ Data with SRD

6/27/2024 4:21:36 AM

Analysis index:	54	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	L2434740-06 6020TL	Rack	2		
Analysis started at:	6/26/2024 3:14:43 PM	Vial	10		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	99.851 %	107.856 %	0.009 ppb	34,468.649 ppb	14,042.886 ppb	50.530 ppb	2,092.775 ppb	37,153.292 ppb	104.532 %
Concentration per Run 1	101.820 %	102.463 %	0.006 ppb	36,244.714 ppb	14,445.456 ppb	51.919 ppb	2,173.153 ppb	37,603.651 ppb	104.852 %
Concentration per Run 2	101.316 %	116.046 %	0.012 ppb	31,072.128 ppb	13,261.489 ppb	45.707 ppb	1,955.952 ppb	35,878.741 ppb	105.611 %
Concentration per Run 3	96.417 %	105.060 %	0.010 ppb	36,089.105 ppb	14,421.713 ppb	53.966 ppb	2,149.219 ppb	37,977.483 ppb	103.132 %
Concentration RSD	3.0 %	6.7 %	33.2 %	8.5 %	4.8 %	8.5 %	5.7 %	3.0 %	1.2 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.335 ppb	0.231 ppb	122.536 ppb	435.071 ppb	0.150 ppb	0.501 ppb	1.372 ppb	2.420 ppb	105.646 %
Concentration per Run 1	0.330 ppb	0.188 ppb	126.267 ppb	436.937 ppb	0.173 ppb	0.646 ppb	1.256 ppb	2.365 ppb	106.792 %
Concentration per Run 2	0.419 ppb	0.210 ppb	116.761 ppb	422.225 ppb	0.129 ppb	0.384 ppb	1.446 ppb	2.406 ppb	106.069 %
Concentration per Run 3	0.256 ppb	0.296 ppb	124.579 ppb	446.050 ppb	0.148 ppb	0.472 ppb	1.414 ppb	2.488 ppb	104.077 %
Concentration RSD	24.3 %	24.7 %	4.1 %	2.8 %	15.0 %	26.6 %	7.4 %	2.6 %	1.3 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.363 ppb	0.160 ppb	60.147 ppb	0.275 ppb	104.085 %	0.001 ppb	0.013 ppb	110.118 %	0.092 ppb
Concentration per Run 1	0.656 ppb	0.242 ppb	58.977 ppb	0.290 ppb	102.933 %	0.004 ppb	0.027 ppb	110.219 %	0.130 ppb
Concentration per Run 2	0.105 ppb	0.267 ppb	60.818 ppb	0.218 ppb	104.351 %	-0.001 ppb	0.008 ppb	110.346 %	0.064 ppb
Concentration per Run 3	0.328 ppb	-0.028 ppb	60.645 ppb	0.317 ppb	104.973 %	0.001 ppb	0.003 ppb	109.788 %	0.082 ppb
Concentration RSD	76.4 %	102.3 %	1.7 %	18.6 %	1.0 %	242.6 %	100.0 %	0.3 %	37.1 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	21.498 ppb	109.796 %	105.471 %	0.001 ppb	0.603 ppb
Concentration per Run 1	21.020 ppb	106.545 %	101.554 %	-0.009 ppb	0.642 ppb
Concentration per Run 2	22.147 ppb	110.469 %	106.399 %	0.002 ppb	0.583 ppb
Concentration per Run 3	21.325 ppb	112.373 %	108.460 %	0.009 ppb	0.585 ppb
Concentration RSD	2.7 %	2.7 %	3.4 %	1,372.2 %	5.5 %

Alpha ICPMSQ Data with SRD

6/27/2024 4:21:36 AM

Analysis index:	55	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	I2434679-01 6020SL	Rack	2		
Analysis started at:	6/26/2024 3:19:22 PM	Vial	18		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	97.362 %	103.728 %	0.006 ppb	5,832.127 ppb	1,160.931 ppb	12.251 ppb	1,490.509 ppb	4,167.518 ppb	98.912 %
Concentration per Run 1	99.624 %	104.860 %	0.010 ppb	5,988.254 ppb	1,122.357 ppb	13.175 ppb	1,552.761 ppb	4,294.007 ppb	98.740 %
Concentration per Run 2	97.569 %	102.064 %	-0.003 ppb	5,859.031 ppb	1,217.604 ppb	11.191 ppb	1,454.738 ppb	4,213.491 ppb	98.992 %
Concentration per Run 3	94.894 %	104.261 %	0.009 ppb	5,649.095 ppb	1,142.832 ppb	12.386 ppb	1,464.027 ppb	3,995.057 ppb	99.004 %
Concentration RSD	2.4 %	1.4 %	130.0 %	2.9 %	4.3 %	8.2 %	3.6 %	3.7 %	0.2 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.083 ppb	0.372 ppb	11.154 ppb	1.898 ppb	0.014 ppb	0.084 ppb	0.070 ppb	0.407 ppb	105.988 %
Concentration per Run 1	0.038 ppb	0.293 ppb	11.268 ppb	0.788 ppb	0.007 ppb	0.042 ppb	0.019 ppb	0.407 ppb	103.739 %
Concentration per Run 2	0.148 ppb	0.396 ppb	10.696 ppb	1.756 ppb	0.021 ppb	0.079 ppb	0.088 ppb	0.514 ppb	105.004 %
Concentration per Run 3	0.064 ppb	0.427 ppb	11.498 ppb	3.149 ppb	0.015 ppb	0.131 ppb	0.103 ppb	0.300 ppb	109.222 %
Concentration RSD	68.9 %	18.9 %	3.7 %	62.5 %	48.4 %	53.1 %	64.3 %	26.3 %	2.7 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	-0.363 ppb	0.806 ppb	22.356 ppb	-0.017 ppb	106.035 %	-0.005 ppb	0.026 ppb	114.153 %	-0.045 ppb
Concentration per Run 1	-0.182 ppb	0.653 ppb	22.217 ppb	-0.048 ppb	104.542 %	-0.005 ppb	0.021 ppb	114.371 %	-0.029 ppb
Concentration per Run 2	-0.445 ppb	1.046 ppb	22.703 ppb	-0.009 ppb	105.233 %	-0.004 ppb	0.035 ppb	116.548 %	-0.049 ppb
Concentration per Run 3	-0.462 ppb	0.720 ppb	22.146 ppb	0.007 ppb	108.330 %	-0.006 ppb	0.022 ppb	111.539 %	-0.056 ppb
Concentration RSD	43.2 %	26.1 %	1.4 %	166.3 %	1.9 %	22.6 %	29.5 %	2.2 %	30.7 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	19.119 ppb	110.305 %	106.678 %	0.000 ppb	0.009 ppb
Concentration per Run 1	19.530 ppb	107.797 %	103.961 %	-0.007 ppb	0.011 ppb
Concentration per Run 2	18.940 ppb	110.015 %	107.659 %	-0.001 ppb	0.006 ppb
Concentration per Run 3	18.888 ppb	113.103 %	108.413 %	0.008 ppb	0.010 ppb
Concentration RSD	1.9 %	2.4 %	2.2 %	2,019.6 %	28.0 %

Alpha ICPMSQ Data with SRD

6/27/2024 4:21:36 AM

Analysis index:	56	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	I2434679-02 6020SL	Rack	2		
Analysis started at:	6/26/2024 3:24:01 PM	Vial	19		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	94.783 %	98.402 %	0.003 ppb	10,866.081 ppb	5,555.292 ppb	1.003 ppb	2,474.136 ppb	24,247.776 ppb	95.630 %
Concentration per Run 1	96.862 %	100.266 %	-0.005 ppb	10,977.511 ppb	5,629.676 ppb	0.387 ppb	2,507.172 ppb	24,378.967 ppb	96.406 %
Concentration per Run 2	94.462 %	101.065 %	0.006 ppb	10,782.368 ppb	5,475.994 ppb	1.891 ppb	2,544.170 ppb	24,650.842 ppb	94.945 %
Concentration per Run 3	93.024 %	93.875 %	0.007 ppb	10,838.362 ppb	5,560.205 ppb	0.731 ppb	2,371.067 ppb	23,713.520 ppb	95.539 %
Concentration RSD	2.0 %	4.0 %	261.1 %	0.9 %	1.4 %	78.5 %	3.7 %	2.0 %	0.8 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.351 ppb	0.468 ppb	4,134.318 ppb	13.395 ppb	0.469 ppb	0.329 ppb	0.343 ppb	0.529 ppb	105.101 %
Concentration per Run 1	0.403 ppb	0.493 ppb	4,115.608 ppb	13.000 ppb	0.470 ppb	0.289 ppb	0.386 ppb	0.507 ppb	104.185 %
Concentration per Run 2	0.329 ppb	0.460 ppb	4,200.926 ppb	12.877 ppb	0.494 ppb	0.373 ppb	0.299 ppb	0.538 ppb	102.180 %
Concentration per Run 3	0.320 ppb	0.453 ppb	4,086.419 ppb	14.308 ppb	0.443 ppb	0.324 ppb	0.345 ppb	0.542 ppb	108.938 %
Concentration RSD	13.0 %	4.6 %	1.4 %	5.9 %	5.4 %	12.8 %	12.6 %	3.6 %	3.3 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	-0.653 ppb	-0.001 ppb	71.859 ppb	1.541 ppb	104.859 %	-0.002 ppb	0.044 ppb	111.008 %	-0.033 ppb
Concentration per Run 1	-0.407 ppb	-0.037 ppb	72.627 ppb	1.456 ppb	104.643 %	0.001 ppb	0.066 ppb	107.859 %	-0.012 ppb
Concentration per Run 2	-0.726 ppb	-0.046 ppb	71.973 ppb	1.521 ppb	104.889 %	-0.005 ppb	0.026 ppb	112.980 %	-0.043 ppb
Concentration per Run 3	-0.825 ppb	0.081 ppb	70.977 ppb	1.646 ppb	105.044 %	-0.002 ppb	0.040 ppb	112.184 %	-0.042 ppb
Concentration RSD	33.5 %	10,617.1 %	1.2 %	6.3 %	0.2 %	129.1 %	45.2 %	2.5 %	53.7 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	17.162 ppb	112.887 %	107.319 %	0.066 ppb	0.009 ppb
Concentration per Run 1	17.043 ppb	110.397 %	104.845 %	0.063 ppb	0.010 ppb
Concentration per Run 2	17.289 ppb	112.767 %	108.632 %	0.066 ppb	0.010 ppb
Concentration per Run 3	17.153 ppb	115.496 %	108.482 %	0.070 ppb	0.008 ppb
Concentration RSD	0.7 %	2.3 %	2.0 %	5.1 %	12.2 %

Alpha ICPMSQ Data with SRD

6/27/2024 4:21:36 AM

Analysis index:	57	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	CCV	Rack	0		
Analysis started at:	6/26/2024 3:28:41 PM	Vial	9		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	89.882 %	104.661 %	60.558 ppb	5,533.575 ppb	5,668.323 ppb	54.856 ppb	5,757.477 ppb	5,970.535 ppb	100.412 %
Concentration per Run 1	91.221 %	111.252 %	59.760 ppb	5,301.493 ppb	5,301.154 ppb	50.737 ppb	5,470.197 ppb	5,691.689 ppb	100.795 %
Concentration per Run 2	90.198 %	100.866 %	60.507 ppb	5,715.261 ppb	5,874.292 ppb	59.719 ppb	5,738.580 ppb	6,111.214 ppb	100.924 %
Concentration per Run 3	88.227 %	101.864 %	61.407 ppb	5,583.972 ppb	5,829.524 ppb	54.111 ppb	6,063.653 ppb	6,108.701 ppb	99.518 %
Recovery Percentage 1			100.930 %	92.226 %	94.472 %	91.427 %	95.958 %	99.509 %	
Concentration RSD	1.7 %	5.5 %	1.4 %	3.8 %	5.6 %	8.3 %	5.2 %	4.0 %	0.8 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	61.603 ppb	60.942 ppb	58.556 ppb	5,779.857 ppb	58.314 ppb	56.369 ppb	59.789 ppb	62.087 ppb	102.891 %
Concentration per Run 1	58.186 ppb	58.173 ppb	55.162 ppb	5,561.058 ppb	56.518 ppb	56.214 ppb	59.968 ppb	60.748 ppb	103.072 %
Concentration per Run 2	63.247 ppb	61.329 ppb	61.696 ppb	5,924.216 ppb	60.337 ppb	56.080 ppb	60.561 ppb	62.649 ppb	103.231 %
Concentration per Run 3	63.375 ppb	63.324 ppb	58.810 ppb	5,854.298 ppb	58.087 ppb	56.812 ppb	58.837 ppb	62.863 ppb	102.371 %
Recovery Percentage 1	102.671 %	101.570 %	97.593 %	96.331 %	97.191 %	93.948 %	99.648 %	103.478 %	
Concentration RSD	4.8 %	4.3 %	5.6 %	3.3 %	3.3 %	0.7 %	1.5 %	1.9 %	0.4 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	60.411 ppb	60.451 ppb	60.257 ppb	59.045 ppb	104.108 %	59.102 ppb	59.556 ppb	110.151 %	56.081 ppb
Concentration per Run 1	60.984 ppb	61.056 ppb	59.124 ppb	56.879 ppb	103.569 %	59.164 ppb	58.150 ppb	111.651 %	54.349 ppb
Concentration per Run 2	60.234 ppb	62.167 ppb	60.554 ppb	59.027 ppb	104.447 %	58.461 ppb	60.168 ppb	108.771 %	56.891 ppb
Concentration per Run 3	60.015 ppb	58.129 ppb	61.092 ppb	61.229 ppb	104.306 %	59.680 ppb	60.349 ppb	110.031 %	57.004 ppb
Recovery Percentage 1	100.685 %	100.751 %	100.428 %	98.409 %		98.503 %	99.259 %		93.469 %
Concentration RSD	0.8 %	3.5 %	1.7 %	3.7 %	0.5 %	1.0 %	2.0 %	1.3 %	2.7 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	61.860 ppb	113.933 %	108.238 %	64.628 ppb	65.555 ppb
Concentration per Run 1	59.040 ppb	112.664 %	106.053 %	65.093 ppb	66.009 ppb
Concentration per Run 2	67.444 ppb	113.070 %	105.863 %	66.267 ppb	67.259 ppb
Concentration per Run 3	59.096 ppb	116.065 %	112.797 %	62.523 ppb	63.397 ppb
Recovery Percentage 1	103.100 %			107.713 %	109.258 %
Concentration RSD	7.8 %	1.6 %	3.6 %	3.0 %	3.0 %

Alpha ICPMSQ Data with SRD

6/27/2024 4:21:36 AM

Analysis index:	58	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	CCB	Rack	0		
Analysis started at:	6/26/2024 3:33:23 PM	Vial	10		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	87.691 %	98.602 %	0.004 ppb	-31.233 ppb	-0.479 ppb	-0.915 ppb	-11.408 ppb	4.043 ppb	87.857 %
Concentration per Run 1	89.038 %	96.272 %	0.003 ppb	-20.497 ppb	-0.894 ppb	-0.518 ppb	0.017 ppb	28.914 ppb	88.276 %
Concentration per Run 2	88.308 %	102.064 %	0.002 ppb	-38.279 ppb	0.392 ppb	-0.864 ppb	-27.582 ppb	-4.585 ppb	88.106 %
Concentration per Run 3	85.728 %	97.470 %	0.006 ppb	-34.924 ppb	-0.934 ppb	-1.364 ppb	-6.659 ppb	-12.200 ppb	87.190 %
Recovery Percentage 1			0.718 %	-31.233 %	-0.684 %	-9.153 %	-11.408 %	4.043 %	
Concentration RSD	2.0 %	3.1 %	50.5 %	30.3 %	157.5 %	46.5 %	126.2 %	541.0 %	0.7 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	-0.018 ppb	-0.004 ppb	0.028 ppb	11.430 ppb	0.002 ppb	-0.077 ppb	0.013 ppb	-0.044 ppb	102.694 %
Concentration per Run 1	-0.020 ppb	0.000 ppb	-0.029 ppb	13.700 ppb	0.008 ppb	-0.039 ppb	0.016 ppb	-0.029 ppb	97.262 %
Concentration per Run 2	-0.023 ppb	0.030 ppb	0.089 ppb	11.377 ppb	-0.007 ppb	-0.133 ppb	0.036 ppb	-0.075 ppb	100.322 %
Concentration per Run 3	-0.011 ppb	-0.043 ppb	0.025 ppb	9.214 ppb	0.004 ppb	-0.057 ppb	-0.011 ppb	-0.027 ppb	110.498 %
Recovery Percentage 1	-0.355 %	-0.423 %	2.802 %	22.861 %	0.370 %	-3.836 %	1.348 %	-0.881 %	
Concentration RSD	36.1 %	871.6 %	211.4 %	19.6 %	421.7 %	64.9 %	174.8 %	61.5 %	6.7 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	-0.460 ppb	0.197 ppb	-0.007 ppb	0.860 ppb	104.621 %	0.001 ppb	0.002 ppb	110.988 %	0.681 ppb
Concentration per Run 1	-0.198 ppb	0.400 ppb	0.011 ppb	0.963 ppb	101.702 %	0.000 ppb	0.008 ppb	106.629 %	0.722 ppb
Concentration per Run 2	-0.464 ppb	0.087 ppb	-0.019 ppb	0.919 ppb	103.745 %	0.003 ppb	-0.002 ppb	104.962 %	0.740 ppb
Concentration per Run 3	-0.717 ppb	0.103 ppb	-0.012 ppb	0.699 ppb	108.416 %	-0.001 ppb	-0.002 ppb	121.373 %	0.580 ppb
Recovery Percentage 1	-91.964 %	3.933 %	-0.067 %	43.008 %		0.189 %	0.804 %		17.013 %
Concentration RSD	56.4 %	89.7 %	232.0 %	16.5 %	3.3 %	265.2 %	351.3 %	8.1 %	12.8 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	0.014 ppb	114.039 %	110.016 %	0.274 ppb	0.022 ppb
Concentration per Run 1	0.042 ppb	109.113 %	104.262 %	0.198 ppb	0.028 ppb
Concentration per Run 2	0.000 ppb	113.451 %	106.555 %	0.331 ppb	0.023 ppb
Concentration per Run 3	0.000 ppb	119.552 %	119.231 %	0.293 ppb	0.015 ppb
Recovery Percentage 1	2.780 %			27.381 %	2.201 %
Concentration RSD	173.2 %	4.6 %	7.3 %	24.9 %	31.8 %

Alpha ICPMSQ Data with SRD

6/27/2024 4:21:36 AM

Analysis index:	59	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	I2434679-04 6020SL	Rack	2		
Analysis started at:	6/26/2024 3:47:52 PM	Vial	20		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	100.850 %	111.185 %	0.001 ppb	12,180.145 ppb	14,678.693 ppb	2.638 ppb	4,693.072 ppb	70,459.424 ppb	121.878 %
Concentration per Run 1	102.756 %	116.844 %	0.001 ppb	11,197.335 ppb	13,514.449 ppb	1.392 ppb	4,374.287 ppb	66,516.599 ppb	122.894 %
Concentration per Run 2	101.387 %	108.056 %	0.001 ppb	12,780.041 ppb	15,558.259 ppb	3.799 ppb	5,200.733 ppb	76,272.016 ppb	122.253 %
Concentration per Run 3	98.408 %	108.655 %	0.000 ppb	12,563.061 ppb	14,963.372 ppb	2.724 ppb	4,504.197 ppb	68,589.657 ppb	120.488 %
Concentration RSD	2.2 %	4.4 %	40.4 %	7.0 %	7.2 %	45.7 %	9.5 %	7.3 %	1.0 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.256 ppb	0.298 ppb	4.585 ppb	9.935 ppb	0.097 ppb	0.147 ppb	0.669 ppb	2.380 ppb	110.559 %
Concentration per Run 1	0.233 ppb	0.271 ppb	4.420 ppb	10.314 ppb	0.086 ppb	0.194 ppb	0.699 ppb	2.255 ppb	109.049 %
Concentration per Run 2	0.312 ppb	0.298 ppb	4.805 ppb	6.396 ppb	0.123 ppb	0.089 ppb	0.622 ppb	2.448 ppb	111.074 %
Concentration per Run 3	0.222 ppb	0.325 ppb	4.531 ppb	13.094 ppb	0.080 ppb	0.158 ppb	0.685 ppb	2.436 ppb	111.555 %
Concentration RSD	19.2 %	9.0 %	4.3 %	33.9 %	24.2 %	36.4 %	6.1 %	4.5 %	1.2 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	-0.476 ppb	0.095 ppb	210.913 ppb	0.416 ppb	109.901 %	-0.001 ppb	0.034 ppb	140.383 %	0.101 ppb
Concentration per Run 1	-0.198 ppb	0.103 ppb	194.415 ppb	0.484 ppb	115.077 %	-0.001 ppb	0.036 ppb	169.168 %	0.053 ppb
Concentration per Run 2	-0.626 ppb	0.223 ppb	230.919 ppb	0.434 ppb	110.461 %	0.001 ppb	0.031 ppb	133.749 %	0.117 ppb
Concentration per Run 3	-0.605 ppb	-0.043 ppb	207.404 ppb	0.331 ppb	104.165 %	-0.001 ppb	0.035 ppb	118.231 %	0.132 ppb
Concentration RSD	50.6 %	140.8 %	8.8 %	18.8 %	5.0 %	238.7 %	7.4 %	18.6 %	42.1 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	41.804 ppb	132.973 %	126.135 %	0.080 ppb	0.021 ppb
Concentration per Run 1	35.986 ppb	152.597 %	143.420 %	0.067 ppb	0.023 ppb
Concentration per Run 2	44.281 ppb	125.950 %	124.609 %	0.099 ppb	0.020 ppb
Concentration per Run 3	45.144 ppb	120.372 %	110.376 %	0.075 ppb	0.021 ppb
Concentration RSD	12.1 %	13.0 %	13.1 %	20.5 %	7.4 %

Alpha ICPMSQ Data with SRD

6/27/2024 4:21:36 AM

Analysis index:	60	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	I2434679-05 6020SL	Rack	2		
Analysis started at:	6/26/2024 3:52:31 PM	Vial	21		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	98.065 %	109.920 %	0.006 ppb	9,101.818 ppb	5,264.267 ppb	0.518 ppb	1,500.888 ppb	15,248.554 ppb	102.202 %
Concentration per Run 1	98.969 %	108.056 %	0.016 ppb	9,385.963 ppb	5,384.891 ppb	0.273 ppb	1,504.834 ppb	15,599.331 ppb	102.418 %
Concentration per Run 2	98.928 %	108.655 %	0.001 ppb	9,293.638 ppb	5,354.806 ppb	0.860 ppb	1,506.658 ppb	15,536.865 ppb	102.195 %
Concentration per Run 3	96.298 %	113.049 %	0.001 ppb	8,625.851 ppb	5,053.103 ppb	0.422 ppb	1,491.171 ppb	14,609.466 ppb	101.992 %
Concentration RSD	1.6 %	2.5 %	145.9 %	4.6 %	3.5 %	59.0 %	0.6 %	3.6 %	0.2 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.125 ppb	0.440 ppb	8.321 ppb	6.260 ppb	0.027 ppb	0.131 ppb	0.176 ppb	8.306 ppb	113.984 %
Concentration per Run 1	0.158 ppb	0.454 ppb	9.019 ppb	6.422 ppb	0.027 ppb	0.105 ppb	0.236 ppb	8.642 ppb	115.282 %
Concentration per Run 2	0.147 ppb	0.480 ppb	8.077 ppb	5.368 ppb	0.025 ppb	0.207 ppb	0.157 ppb	8.530 ppb	112.611 %
Concentration per Run 3	0.070 ppb	0.387 ppb	7.867 ppb	6.990 ppb	0.029 ppb	0.080 ppb	0.134 ppb	7.746 ppb	114.061 %
Concentration RSD	38.2 %	10.8 %	7.4 %	13.1 %	8.5 %	51.6 %	30.3 %	5.9 %	1.2 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	-0.664 ppb	0.232 ppb	62.509 ppb	0.044 ppb	106.764 %	-0.001 ppb	0.000 ppb	114.205 %	0.036 ppb
Concentration per Run 1	-0.421 ppb	0.232 ppb	64.067 ppb	0.072 ppb	107.331 %	-0.001 ppb	0.003 ppb	116.735 %	0.008 ppb
Concentration per Run 2	-0.559 ppb	0.222 ppb	63.697 ppb	0.045 ppb	106.581 %	-0.001 ppb	-0.002 ppb	112.351 %	0.066 ppb
Concentration per Run 3	-1.013 ppb	0.242 ppb	59.762 ppb	0.016 ppb	106.380 %	0.000 ppb	-0.002 ppb	113.530 %	0.033 ppb
Concentration RSD	46.6 %	4.5 %	3.8 %	62.6 %	0.5 %	70.9 %	1,781.7 %	2.0 %	80.3 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	18.018 ppb	115.421 %	111.731 %	0.022 ppb	0.011 ppb
Concentration per Run 1	17.630 ppb	114.723 %	112.944 %	0.005 ppb	0.011 ppb
Concentration per Run 2	18.236 ppb	117.658 %	112.768 %	0.028 ppb	0.011 ppb
Concentration per Run 3	18.188 ppb	113.884 %	109.480 %	0.034 ppb	0.011 ppb
Concentration RSD	1.9 %	1.7 %	1.7 %	68.5 %	3.7 %

Alpha ICPMSQ Data with SRD

6/27/2024 4:21:36 AM

Analysis index:	61	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	I2434679-06 6020SL	Rack	2		
Analysis started at:	6/26/2024 3:57:10 PM	Vial	22		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	96.545 %	103.795 %	-0.002 ppb	11,294.490 ppb	5,392.597 ppb	2.069 ppb	2,087.131 ppb	18,989.927 ppb	98.727 %
Concentration per Run 1	98.497 %	105.060 %	0.001 ppb	11,453.644 ppb	5,500.138 ppb	1.754 ppb	2,137.796 ppb	20,273.437 ppb	98.802 %
Concentration per Run 2	96.429 %	101.664 %	-0.006 ppb	11,266.402 ppb	5,345.573 ppb	2.719 ppb	2,159.798 ppb	18,176.278 ppb	98.174 %
Concentration per Run 3	94.710 %	104.660 %	0.000 ppb	11,163.423 ppb	5,332.081 ppb	1.735 ppb	1,963.797 ppb	18,520.064 ppb	99.204 %
Concentration RSD	2.0 %	1.8 %	226.6 %	1.3 %	1.7 %	27.2 %	5.1 %	5.9 %	0.5 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.269 ppb	0.014 ppb	3.610 ppb	1.414 ppb	0.023 ppb	0.186 ppb	0.230 ppb	0.908 ppb	107.900 %
Concentration per Run 1	0.310 ppb	-0.030 ppb	3.263 ppb	1.725 ppb	0.019 ppb	0.199 ppb	0.221 ppb	0.877 ppb	113.561 %
Concentration per Run 2	0.276 ppb	0.017 ppb	3.505 ppb	1.803 ppb	0.019 ppb	0.166 ppb	0.202 ppb	0.968 ppb	103.886 %
Concentration per Run 3	0.221 ppb	0.055 ppb	4.060 ppb	0.715 ppb	0.032 ppb	0.194 ppb	0.265 ppb	0.878 ppb	106.254 %
Concentration RSD	16.7 %	306.4 %	11.3 %	42.9 %	31.9 %	9.3 %	14.1 %	5.8 %	4.7 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	-0.448 ppb	0.053 ppb	80.216 ppb	0.080 ppb	106.851 %	-0.003 ppb	0.007 ppb	114.847 %	-0.016 ppb
Concentration per Run 1	-0.470 ppb	0.085 ppb	82.504 ppb	0.024 ppb	108.398 %	-0.002 ppb	0.016 ppb	119.447 %	-0.002 ppb
Concentration per Run 2	-0.345 ppb	0.109 ppb	79.522 ppb	0.089 ppb	105.691 %	-0.006 ppb	-0.002 ppb	114.463 %	-0.037 ppb
Concentration per Run 3	-0.529 ppb	-0.036 ppb	78.622 ppb	0.126 ppb	106.466 %	-0.003 ppb	0.008 ppb	110.633 %	-0.009 ppb
Concentration RSD	21.0 %	147.8 %	2.5 %	64.8 %	1.3 %	65.4 %	120.0 %	3.8 %	118.9 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	17.706 ppb	113.617 %	110.142 %	0.014 ppb	0.010 ppb
Concentration per Run 1	18.132 ppb	115.783 %	113.652 %	0.001 ppb	0.012 ppb
Concentration per Run 2	16.834 ppb	112.436 %	108.989 %	0.022 ppb	0.008 ppb
Concentration per Run 3	18.151 ppb	112.631 %	107.786 %	0.021 ppb	0.011 ppb
Concentration RSD	4.3 %	1.7 %	2.8 %	80.6 %	19.2 %

Alpha ICPMSQ Data with SRD

6/27/2024 4:21:36 AM

Analysis index:	62	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	I2434679-07 6020SL	Rack	2		
Analysis started at:	6/26/2024 4:01:50 PM	Vial	23		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	96.412 %	101.465 %	0.002 ppb	11,659.008 ppb	6,323.225 ppb	1.249 ppb	2,108.289 ppb	14,657.144 ppb	97.728 %
Concentration per Run 1	98.574 %	107.657 %	-0.002 ppb	11,937.179 ppb	6,455.950 ppb	1.032 ppb	2,254.555 ppb	15,284.726 ppb	97.880 %
Concentration per Run 2	95.928 %	95.672 %	0.004 ppb	12,117.263 ppb	6,598.230 ppb	1.708 ppb	2,138.394 ppb	15,038.270 ppb	97.869 %
Concentration per Run 3	94.733 %	101.065 %	0.003 ppb	10,922.582 ppb	5,915.493 ppb	1.008 ppb	1,931.917 ppb	13,648.437 ppb	97.435 %
Concentration RSD	2.0 %	5.9 %	176.2 %	5.5 %	5.7 %	31.8 %	7.8 %	6.0 %	0.3 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.139 ppb	0.705 ppb	0.786 ppb	1.048 ppb	0.037 ppb	0.348 ppb	0.189 ppb	1.845 ppb	107.016 %
Concentration per Run 1	0.167 ppb	0.623 ppb	0.810 ppb	0.914 ppb	0.028 ppb	0.317 ppb	0.156 ppb	1.869 ppb	109.200 %
Concentration per Run 2	0.162 ppb	0.654 ppb	0.772 ppb	1.044 ppb	0.043 ppb	0.386 ppb	0.214 ppb	1.735 ppb	108.980 %
Concentration per Run 3	0.088 ppb	0.839 ppb	0.775 ppb	1.186 ppb	0.039 ppb	0.341 ppb	0.198 ppb	1.930 ppb	102.869 %
Concentration RSD	32.0 %	16.6 %	2.7 %	13.0 %	20.8 %	10.0 %	15.8 %	5.4 %	3.4 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	-0.261 ppb	0.239 ppb	104.456 ppb	-0.045 ppb	102.619 %	-0.001 ppb	0.008 ppb	110.841 %	-0.051 ppb
Concentration per Run 1	0.135 ppb	0.377 ppb	110.099 ppb	-0.078 ppb	104.068 %	-0.002 ppb	0.012 ppb	114.046 %	-0.034 ppb
Concentration per Run 2	-0.276 ppb	0.361 ppb	102.797 ppb	0.020 ppb	104.122 %	0.000 ppb	0.003 ppb	111.018 %	-0.070 ppb
Concentration per Run 3	-0.643 ppb	-0.020 ppb	100.474 ppb	-0.076 ppb	99.668 %	-0.001 ppb	0.008 ppb	107.461 %	-0.048 ppb
Concentration RSD	148.9 %	94.0 %	4.8 %	125.3 %	2.5 %	80.9 %	58.8 %	3.0 %	35.5 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	27.567 ppb	113.930 %	106.581 %	0.005 ppb	0.013 ppb
Concentration per Run 1	27.584 ppb	118.956 %	111.435 %	-0.011 ppb	0.011 ppb
Concentration per Run 2	28.630 ppb	115.723 %	107.518 %	0.012 ppb	0.014 ppb
Concentration per Run 3	26.486 ppb	107.112 %	100.790 %	0.012 ppb	0.015 ppb
Concentration RSD	3.9 %	5.4 %	5.1 %	290.5 %	14.9 %

Alpha ICPMSQ Data with SRD

6/27/2024 4:21:36 AM

Analysis index:	63	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	I2434679-08 6020SL	Rack	2		
Analysis started at:	6/26/2024 4:06:30 PM	Vial	24		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	97.749 %	108.788 %	-0.002 ppb	7,205.628 ppb	4,844.835 ppb	1.305 ppb	1,678.950 ppb	15,602.421 ppb	98.613 %
Concentration per Run 1	100.101 %	112.850 %	-0.007 ppb	7,357.444 ppb	4,985.112 ppb	1.444 ppb	1,775.469 ppb	16,274.456 ppb	98.883 %
Concentration per Run 2	97.725 %	111.851 %	-0.002 ppb	7,092.132 ppb	4,814.313 ppb	0.599 ppb	1,559.209 ppb	15,010.232 ppb	99.094 %
Concentration per Run 3	95.420 %	101.664 %	0.001 ppb	7,167.308 ppb	4,735.079 ppb	1.872 ppb	1,702.172 ppb	15,522.575 ppb	97.862 %
Concentration RSD	2.4 %	5.7 %	181.1 %	1.9 %	2.6 %	49.6 %	6.6 %	4.1 %	0.7 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.228 ppb	0.199 ppb	1.023 ppb	12.077 ppb	0.035 ppb	0.778 ppb	0.130 ppb	0.241 ppb	108.123 %
Concentration per Run 1	0.158 ppb	0.182 ppb	0.883 ppb	10.363 ppb	0.017 ppb	0.729 ppb	0.078 ppb	0.160 ppb	113.140 %
Concentration per Run 2	0.150 ppb	0.187 ppb	0.939 ppb	12.030 ppb	0.057 ppb	0.840 ppb	0.156 ppb	0.234 ppb	108.941 %
Concentration per Run 3	0.375 ppb	0.226 ppb	1.247 ppb	13.838 ppb	0.030 ppb	0.764 ppb	0.156 ppb	0.330 ppb	102.287 %
Concentration RSD	56.3 %	12.0 %	19.2 %	14.4 %	59.7 %	7.3 %	34.8 %	35.3 %	5.1 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	-0.588 ppb	-0.035 ppb	55.416 ppb	0.126 ppb	103.433 %	0.058 ppb	0.007 ppb	114.387 %	-0.037 ppb
Concentration per Run 1	-0.655 ppb	-0.034 ppb	58.281 ppb	0.113 ppb	105.732 %	0.060 ppb	0.016 ppb	121.507 %	-0.033 ppb
Concentration per Run 2	-0.620 ppb	-0.052 ppb	54.884 ppb	0.179 ppb	102.934 %	0.063 ppb	0.008 ppb	115.127 %	-0.041 ppb
Concentration per Run 3	-0.490 ppb	-0.020 ppb	53.084 ppb	0.086 ppb	101.634 %	0.050 ppb	-0.002 ppb	106.527 %	-0.037 ppb
Concentration RSD	14.8 %	44.2 %	4.8 %	38.2 %	2.0 %	11.5 %	120.8 %	6.6 %	10.1 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	23.492 ppb	111.911 %	107.236 %	0.017 ppb	0.034 ppb
Concentration per Run 1	25.392 ppb	115.661 %	112.666 %	0.004 ppb	0.034 ppb
Concentration per Run 2	20.557 ppb	110.479 %	107.651 %	0.021 ppb	0.027 ppb
Concentration per Run 3	24.528 ppb	109.592 %	101.390 %	0.028 ppb	0.040 ppb
Concentration RSD	11.0 %	2.9 %	5.3 %	71.8 %	18.0 %

Alpha ICPMSQ Data with SRD

6/27/2024 4:21:36 AM

Analysis index:	64	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	I2434679-03 6020SL	Rack	2		
Analysis started at:	6/26/2024 4:11:10 PM	Vial	13		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	97.159 %	103.196 %	-0.005 ppb	12,029.895 ppb	10,305.375 ppb	0.835 ppb	4,114.847 ppb	45,404.940 ppb	99.080 %
Concentration per Run 1	98.571 %	103.462 %	0.003 ppb	11,905.651 ppb	10,082.233 ppb	1.566 ppb	4,203.230 ppb	45,703.140 ppb	99.330 %
Concentration per Run 2	97.044 %	106.458 %	-0.014 ppb	12,109.277 ppb	10,448.799 ppb	1.500 ppb	4,074.898 ppb	46,455.909 ppb	99.316 %
Concentration per Run 3	95.861 %	99.667 %	-0.005 ppb	12,074.756 ppb	10,385.091 ppb	-0.561 ppb	4,066.414 ppb	44,055.771 ppb	98.595 %
Concentration RSD	1.4 %	3.3 %	163.7 %	0.9 %	1.9 %	144.9 %	1.9 %	2.7 %	0.4 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.162 ppb	0.270 ppb	66.534 ppb	9.301 ppb	0.071 ppb	0.207 ppb	0.432 ppb	0.945 ppb	100.400 %
Concentration per Run 1	0.055 ppb	0.289 ppb	66.097 ppb	10.066 ppb	0.076 ppb	0.130 ppb	0.438 ppb	0.890 ppb	102.830 %
Concentration per Run 2	0.118 ppb	0.184 ppb	65.651 ppb	9.091 ppb	0.067 ppb	0.160 ppb	0.398 ppb	0.997 ppb	101.677 %
Concentration per Run 3	0.313 ppb	0.339 ppb	67.855 ppb	8.745 ppb	0.068 ppb	0.331 ppb	0.460 ppb	0.948 ppb	96.692 %
Concentration RSD	83.1 %	29.3 %	1.8 %	7.4 %	6.5 %	52.4 %	7.3 %	5.7 %	3.2 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	-0.373 ppb	0.198 ppb	150.221 ppb	0.004 ppb	103.004 %	-0.002 ppb	-0.002 ppb	108.368 %	-0.063 ppb
Concentration per Run 1	-0.212 ppb	0.512 ppb	150.269 ppb	0.044 ppb	102.423 %	0.000 ppb	-0.002 ppb	109.781 %	-0.047 ppb
Concentration per Run 2	-0.554 ppb	0.103 ppb	152.598 ppb	-0.027 ppb	103.985 %	-0.004 ppb	-0.002 ppb	111.253 %	-0.066 ppb
Concentration per Run 3	-0.353 ppb	-0.021 ppb	147.796 ppb	-0.005 ppb	102.605 %	-0.002 ppb	-0.002 ppb	104.069 %	-0.076 ppb
Concentration RSD	46.0 %	141.0 %	1.6 %	899.6 %	0.8 %	81.4 %	0.0 %	3.5 %	23.4 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	50.898 ppb	109.890 %	105.271 %	0.006 ppb	0.007 ppb
Concentration per Run 1	52.425 ppb	109.629 %	107.240 %	-0.001 ppb	0.009 ppb
Concentration per Run 2	47.859 ppb	111.559 %	108.022 %	0.007 ppb	0.006 ppb
Concentration per Run 3	52.410 ppb	108.482 %	100.550 %	0.013 ppb	0.006 ppb
Concentration RSD	5.2 %	1.4 %	3.9 %	116.6 %	24.3 %

Alpha ICPMSQ Data with SRD

6/27/2024 4:21:36 AM

Analysis index: 65
Analysis label: WG1939202-3d10 6020SL
Analysis started at: 6/26/2024 4:15:49 PM
User name ALPHALAB\Metals-Instrument
Rack 2
Vial 14
Comment <Comment>

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	93.072 %	106.924 %	5.355 ppb	2,191.396 ppb	2,012.088 ppb	192.409 ppb	1,443.660 ppb	5,254.079 ppb	96.806 %
Concentration per Run 1	94.679 %	103.862 %	5.451 ppb	2,304.315 ppb	2,098.321 ppb	191.837 ppb	1,477.953 ppb	5,385.643 ppb	98.122 %
Concentration per Run 2	93.862 %	103.462 %	5.305 ppb	2,233.694 ppb	2,028.637 ppb	195.530 ppb	1,564.281 ppb	5,286.523 ppb	97.126 %
Concentration per Run 3	90.675 %	113.449 %	5.307 ppb	2,036.181 ppb	1,909.305 ppb	189.860 ppb	1,288.745 ppb	5,090.071 ppb	95.170 %
Concentration RSD	2.3 %	5.3 %	1.6 %	6.3 %	4.8 %	1.5 %	9.8 %	2.9 %	1.6 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	49.712 ppb	19.439 ppb	52.824 ppb	100.663 ppb	50.222 ppb	48.432 ppb	25.433 ppb	51.432 ppb	104.079 %
Concentration per Run 1	50.279 ppb	19.917 ppb	54.369 ppb	96.848 ppb	51.255 ppb	50.589 ppb	26.016 ppb	51.827 ppb	104.013 %
Concentration per Run 2	50.497 ppb	19.858 ppb	54.200 ppb	108.396 ppb	49.425 ppb	47.062 ppb	24.732 ppb	52.067 ppb	103.197 %
Concentration per Run 3	48.360 ppb	18.542 ppb	49.904 ppb	96.745 ppb	49.986 ppb	47.643 ppb	25.550 ppb	50.402 ppb	105.027 %
Concentration RSD	2.4 %	4.0 %	4.8 %	6.7 %	1.9 %	3.9 %	2.6 %	1.7 %	0.9 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	12.225 ppb	13.570 ppb	113.754 ppb	101.169 ppb	103.521 %	5.133 ppb	5.268 ppb	108.924 %	51.062 ppb
Concentration per Run 1	12.317 ppb	14.616 ppb	115.635 ppb	97.002 ppb	101.994 %	5.212 ppb	5.291 ppb	107.836 %	51.614 ppb
Concentration per Run 2	12.478 ppb	13.184 ppb	111.284 ppb	104.068 ppb	102.580 %	5.144 ppb	5.215 ppb	106.755 %	50.741 ppb
Concentration per Run 3	11.879 ppb	12.911 ppb	114.345 ppb	102.438 ppb	105.988 %	5.043 ppb	5.298 ppb	112.180 %	50.831 ppb
Concentration RSD	2.5 %	6.7 %	2.0 %	3.7 %	2.1 %	1.7 %	0.9 %	2.6 %	0.9 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	218.197 ppb	107.921 %	103.360 %	13.093 ppb	59.659 ppb
Concentration per Run 1	222.941 ppb	107.791 %	102.954 %	12.775 ppb	59.729 ppb
Concentration per Run 2	215.276 ppb	107.142 %	102.253 %	13.072 ppb	59.261 ppb
Concentration per Run 3	216.374 ppb	108.828 %	104.872 %	13.433 ppb	59.986 ppb
Concentration RSD	1.9 %	0.8 %	1.3 %	2.5 %	0.6 %

Alpha ICPMSQ Data with SRD

6/27/2024 4:21:36 AM

Analysis index:	66	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	WG1939202-4d10 6020SL	Rack	2		
Analysis started at:	6/26/2024 4:20:29 PM	Vial	15		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	92.234 %	105.659 %	5.319 ppb	2,169.912 ppb	2,013.660 ppb	196.047 ppb	1,403.159 ppb	5,282.236 ppb	96.189 %
Concentration per Run 1	93.596 %	105.260 %	5.375 ppb	2,193.659 ppb	2,081.229 ppb	195.260 ppb	1,456.302 ppb	5,325.134 ppb	96.184 %
Concentration per Run 2	92.553 %	104.261 %	5.289 ppb	2,121.342 ppb	1,930.354 ppb	190.293 ppb	1,326.446 ppb	5,105.937 ppb	96.368 %
Concentration per Run 3	90.552 %	107.457 %	5.292 ppb	2,194.735 ppb	2,029.398 ppb	202.587 ppb	1,426.729 ppb	5,415.637 ppb	96.016 %
Concentration RSD	1.7 %	1.5 %	0.9 %	1.9 %	3.8 %	3.2 %	4.9 %	3.0 %	0.2 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	49.199 ppb	19.260 ppb	53.580 ppb	103.357 ppb	51.009 ppb	47.895 ppb	25.042 ppb	50.825 ppb	104.533 %
Concentration per Run 1	49.048 ppb	18.720 ppb	52.488 ppb	103.377 ppb	50.973 ppb	47.926 ppb	24.803 ppb	49.885 ppb	104.826 %
Concentration per Run 2	50.027 ppb	19.961 ppb	54.515 ppb	109.002 ppb	51.364 ppb	47.870 ppb	25.140 ppb	50.393 ppb	102.189 %
Concentration per Run 3	48.522 ppb	19.100 ppb	53.737 ppb	97.691 ppb	50.691 ppb	47.889 ppb	25.183 ppb	52.197 ppb	106.585 %
Concentration RSD	1.6 %	3.3 %	1.9 %	5.5 %	0.7 %	0.1 %	0.8 %	2.4 %	2.1 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	12.285 ppb	12.307 ppb	114.669 ppb	103.328 ppb	103.462 %	5.230 ppb	5.517 ppb	107.107 %	52.576 ppb
Concentration per Run 1	12.001 ppb	12.270 ppb	114.560 ppb	104.407 ppb	103.724 %	5.324 ppb	5.603 ppb	107.623 %	52.108 ppb
Concentration per Run 2	12.586 ppb	11.351 ppb	111.133 ppb	99.328 ppb	100.980 %	5.282 ppb	5.581 ppb	97.768 %	54.078 ppb
Concentration per Run 3	12.268 ppb	13.299 ppb	118.312 ppb	106.248 ppb	105.683 %	5.084 ppb	5.368 ppb	115.932 %	51.543 ppb
Concentration RSD	2.4 %	7.9 %	3.1 %	3.5 %	2.3 %	2.4 %	2.4 %	8.5 %	2.5 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	220.789 ppb	109.199 %	103.703 %	13.260 ppb	59.707 ppb
Concentration per Run 1	215.842 ppb	109.945 %	105.453 %	13.014 ppb	58.481 ppb
Concentration per Run 2	228.871 ppb	106.430 %	98.122 %	13.828 ppb	61.846 ppb
Concentration per Run 3	217.655 ppb	111.222 %	107.535 %	12.939 ppb	58.794 ppb
Concentration RSD	3.2 %	2.3 %	4.8 %	3.7 %	3.1 %

Alpha ICPMSQ Data with SRD

6/27/2024 4:21:36 AM

Analysis index: 67
Analysis label: WG1939202-5d10 6020SL
Analysis started at: 6/26/2024 4:25:08 PM
User name ALPHALAB\Metals-Instrument
Rack 2
Vial 16
Comment <Comment>

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	89.034 %	97.137 %	56.351 ppb	5,493.344 ppb	5,573.210 ppb	56.327 ppb	5,491.386 ppb	5,502.670 ppb	95.533 %
Concentration per Run 1	90.728 %	94.474 %	56.172 ppb	5,773.354 ppb	5,811.423 ppb	62.767 ppb	5,735.059 ppb	5,878.061 ppb	97.237 %
Concentration per Run 2	89.420 %	105.859 %	56.197 ppb	5,252.303 ppb	5,272.182 ppb	54.516 ppb	5,350.335 ppb	5,462.645 ppb	95.942 %
Concentration per Run 3	86.954 %	91.078 %	56.683 ppb	5,454.373 ppb	5,636.025 ppb	51.698 ppb	5,388.765 ppb	5,167.303 ppb	93.421 %
Concentration RSD	2.2 %	8.0 %	0.5 %	4.8 %	4.9 %	10.2 %	3.9 %	6.5 %	2.0 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	57.430 ppb	55.797 ppb	54.001 ppb	5,488.784 ppb	55.900 ppb	54.674 ppb	56.664 ppb	57.324 ppb	100.428 %
Concentration per Run 1	57.771 ppb	56.906 ppb	56.475 ppb	5,792.564 ppb	58.378 ppb	57.471 ppb	58.345 ppb	58.171 ppb	98.393 %
Concentration per Run 2	56.264 ppb	53.382 ppb	52.625 ppb	5,251.300 ppb	53.242 ppb	51.992 ppb	54.807 ppb	56.274 ppb	102.620 %
Concentration per Run 3	58.254 ppb	57.104 ppb	52.903 ppb	5,422.487 ppb	56.081 ppb	54.559 ppb	56.842 ppb	57.528 ppb	100.271 %
Concentration RSD	1.8 %	3.8 %	4.0 %	5.0 %	4.6 %	5.0 %	3.1 %	1.7 %	2.1 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	57.351 ppb	55.607 ppb	54.425 ppb	59.183 ppb	103.715 %	1.771 ppb	54.081 ppb	107.336 %	56.634 ppb
Concentration per Run 1	60.448 ppb	56.379 ppb	55.131 ppb	58.932 ppb	104.486 %	1.853 ppb	53.614 ppb	108.572 %	57.694 ppb
Concentration per Run 2	55.377 ppb	56.365 ppb	55.085 ppb	59.775 ppb	104.151 %	1.772 ppb	54.151 ppb	111.959 %	54.935 ppb
Concentration per Run 3	56.229 ppb	54.075 ppb	53.058 ppb	58.841 ppb	102.508 %	1.687 ppb	54.477 ppb	101.478 %	57.271 ppb
Concentration RSD	4.7 %	2.4 %	2.2 %	0.9 %	1.0 %	4.7 %	0.8 %	5.0 %	2.6 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	55.283 ppb	112.115 %	105.653 %	58.716 ppb	61.334 ppb
Concentration per Run 1	56.294 ppb	112.439 %	105.587 %	58.185 ppb	60.608 ppb
Concentration per Run 2	55.310 ppb	114.278 %	106.286 %	58.726 ppb	62.590 ppb
Concentration per Run 3	54.245 ppb	109.626 %	105.086 %	59.236 ppb	60.805 ppb
Concentration RSD	1.9 %	2.1 %	0.6 %	0.9 %	1.8 %

Alpha ICPMSQ Data with SRD

6/27/2024 4:21:36 AM

Analysis index:	68	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	WG1939202-6d5 6020SL	Rack	2		
Analysis started at:	6/26/2024 4:29:47 PM	Vial	17		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	87.535 %	101.997 %	0.003 ppb	-46.017 ppb	0.837 ppb	-0.238 ppb	-2.818 ppb	6.931 ppb	90.369 %
Concentration per Run 1	88.804 %	96.671 %	0.013 ppb	-41.588 ppb	0.474 ppb	0.097 ppb	-6.009 ppb	30.999 ppb	91.053 %
Concentration per Run 2	87.020 %	101.664 %	-0.001 ppb	-42.673 ppb	2.163 ppb	-0.244 ppb	2.447 ppb	-1.439 ppb	89.575 %
Concentration per Run 3	86.779 %	107.657 %	-0.002 ppb	-53.789 ppb	-0.125 ppb	-0.568 ppb	-4.893 ppb	-8.768 ppb	90.480 %
Concentration RSD	1.3 %	5.4 %	235.2 %	14.7 %	141.7 %	139.4 %	163.0 %	305.3 %	0.8 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.009 ppb	-0.029 ppb	-0.005 ppb	8.133 ppb	0.020 ppb	-0.003 ppb	0.032 ppb	0.064 ppb	101.544 %
Concentration per Run 1	-0.006 ppb	0.001 ppb	-0.035 ppb	9.415 ppb	0.028 ppb	0.013 ppb	0.043 ppb	0.046 ppb	101.488 %
Concentration per Run 2	0.009 ppb	-0.026 ppb	-0.113 ppb	6.549 ppb	0.022 ppb	0.038 ppb	-0.001 ppb	0.037 ppb	101.909 %
Concentration per Run 3	0.023 ppb	-0.061 ppb	0.131 ppb	8.434 ppb	0.010 ppb	-0.059 ppb	0.056 ppb	0.110 ppb	101.234 %
Concentration RSD	166.0 %	110.0 %	2,296.7 %	17.9 %	45.0 %	1,947.3 %	92.6 %	62.1 %	0.3 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	-0.462 ppb	0.279 ppb	0.003 ppb	1.243 ppb	103.957 %	-0.002 ppb	0.005 ppb	111.751 %	-0.033 ppb
Concentration per Run 1	-0.291 ppb	0.509 ppb	0.006 ppb	1.498 ppb	101.900 %	-0.002 ppb	0.003 ppb	109.105 %	-0.043 ppb
Concentration per Run 2	-0.388 ppb	0.069 ppb	0.003 ppb	1.112 ppb	102.878 %	-0.002 ppb	0.003 ppb	112.360 %	-0.024 ppb
Concentration per Run 3	-0.708 ppb	0.260 ppb	0.001 ppb	1.118 ppb	107.094 %	-0.003 ppb	0.008 ppb	113.787 %	-0.033 ppb
Concentration RSD	47.2 %	79.1 %	73.2 %	17.8 %	2.7 %	3.1 %	56.0 %	2.1 %	27.4 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	0.027 ppb	112.134 %	108.215 %	0.423 ppb	0.034 ppb
Concentration per Run 1	0.041 ppb	110.916 %	106.766 %	0.254 ppb	0.043 ppb
Concentration per Run 2	0.000 ppb	111.912 %	108.032 %	0.527 ppb	0.028 ppb
Concentration per Run 3	0.040 ppb	113.575 %	109.847 %	0.488 ppb	0.030 ppb
Concentration RSD	86.6 %	1.2 %	1.4 %	35.0 %	23.9 %

Alpha ICPMSQ Data with SRD

6/27/2024 4:21:36 AM

Analysis index:	69	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	CCV	Rack	0		
Analysis started at:	6/26/2024 4:34:26 PM	Vial	9		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	89.917 %	104.194 %	60.031 ppb	5,518.681 ppb	5,649.568 ppb	53.116 ppb	5,611.147 ppb	5,844.803 ppb	100.482 %
Concentration per Run 1	91.916 %	108.456 %	60.247 ppb	5,450.077 ppb	5,626.132 ppb	58.064 ppb	5,752.917 ppb	6,052.597 ppb	102.445 %
Concentration per Run 2	89.948 %	102.863 %	58.912 ppb	5,417.896 ppb	5,482.849 ppb	52.191 ppb	5,270.860 ppb	5,471.481 ppb	100.124 %
Concentration per Run 3	87.886 %	101.265 %	60.935 ppb	5,688.070 ppb	5,839.722 ppb	49.092 ppb	5,809.666 ppb	6,010.332 ppb	98.878 %
Recovery Percentage 1			100.052 %	91.978 %	94.159 %	88.526 %	93.519 %	97.413 %	
Concentration RSD	2.2 %	3.6 %	1.7 %	2.7 %	3.2 %	8.6 %	5.3 %	5.5 %	1.8 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	59.320 ppb	59.924 ppb	55.956 ppb	5,760.937 ppb	58.240 ppb	56.452 ppb	59.255 ppb	61.316 ppb	104.141 %
Concentration per Run 1	58.901 ppb	60.641 ppb	56.670 ppb	5,883.612 ppb	59.873 ppb	58.776 ppb	60.469 ppb	60.937 ppb	102.562 %
Concentration per Run 2	58.285 ppb	58.596 ppb	54.166 ppb	5,478.790 ppb	55.955 ppb	54.880 ppb	57.893 ppb	61.341 ppb	103.585 %
Concentration per Run 3	60.775 ppb	60.534 ppb	57.032 ppb	5,920.409 ppb	58.892 ppb	55.701 ppb	59.404 ppb	61.671 ppb	106.276 %
Recovery Percentage 1	98.867 %	99.873 %	93.259 %	96.016 %	97.067 %	94.087 %	98.759 %	102.193 %	
Concentration RSD	2.2 %	1.9 %	2.8 %	4.3 %	3.5 %	3.6 %	2.2 %	0.6 %	1.8 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	58.758 ppb	60.073 ppb	58.723 ppb	59.912 ppb	104.624 %	60.038 ppb	59.683 ppb	109.223 %	56.380 ppb
Concentration per Run 1	60.449 ppb	60.800 ppb	58.650 ppb	60.238 ppb	105.093 %	59.823 ppb	60.363 ppb	110.367 %	56.829 ppb
Concentration per Run 2	56.463 ppb	53.989 ppb	56.890 ppb	59.817 ppb	101.843 %	59.449 ppb	59.161 ppb	104.675 %	56.501 ppb
Concentration per Run 3	59.362 ppb	65.431 ppb	60.629 ppb	59.682 ppb	106.935 %	60.843 ppb	59.524 ppb	112.626 %	55.811 ppb
Recovery Percentage 1	97.930 %	100.122 %	97.871 %	99.854 %		100.064 %	99.471 %		93.967 %
Concentration RSD	3.5 %	9.6 %	3.2 %	0.5 %	2.5 %	1.2 %	1.0 %	3.8 %	0.9 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	61.747 ppb	113.143 %	107.126 %	66.203 ppb	66.113 ppb
Concentration per Run 1	62.252 ppb	110.416 %	108.126 %	65.840 ppb	64.683 ppb
Concentration per Run 2	62.453 ppb	112.374 %	102.348 %	66.720 ppb	68.389 ppb
Concentration per Run 3	60.536 ppb	116.640 %	110.904 %	66.050 ppb	65.267 ppb
Recovery Percentage 1	102.911 %			110.339 %	110.189 %
Concentration RSD	1.7 %	2.8 %	4.1 %	0.7 %	3.0 %

Alpha ICPMSQ Data with SRD

6/27/2024 4:21:36 AM

Analysis index:	70	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	CCB	Rack	0		
Analysis started at:	6/26/2024 4:39:09 PM	Vial	10		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	87.589 %	104.993 %	0.016 ppb	-51.539 ppb	-1.109 ppb	-1.352 ppb	-14.104 ppb	-3.784 ppb	87.077 %
Concentration per Run 1	89.135 %	110.053 %	0.009 ppb	-58.866 ppb	-0.988 ppb	-0.946 ppb	-39.831 ppb	-1.986 ppb	86.959 %
Concentration per Run 2	88.009 %	98.868 %	0.020 ppb	-42.545 ppb	-1.374 ppb	-1.596 ppb	5.256 ppb	2.526 ppb	86.885 %
Concentration per Run 3	85.622 %	106.059 %	0.020 ppb	-53.205 ppb	-0.965 ppb	-1.515 ppb	-7.737 ppb	-11.892 ppb	87.387 %
Recovery Percentage 1			3.276 %	-51.539 %	-1.585 %	-13.525 %	-14.104 %	-3.784 %	
Concentration RSD	2.0 %	5.4 %	40.3 %	16.1 %	20.7 %	26.2 %	164.5 %	194.9 %	0.3 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	-0.029 ppb	0.991 ppb	-0.046 ppb	11.630 ppb	0.000 ppb	-0.063 ppb	-0.001 ppb	-0.078 ppb	100.304 %
Concentration per Run 1	-0.024 ppb	-0.030 ppb	-0.064 ppb	10.464 ppb	-0.004 ppb	-0.048 ppb	0.021 ppb	-0.056 ppb	99.959 %
Concentration per Run 2	-0.055 ppb	3.055 ppb	-0.111 ppb	16.186 ppb	0.002 ppb	-0.075 ppb	-0.008 ppb	-0.082 ppb	100.781 %
Concentration per Run 3	-0.008 ppb	-0.053 ppb	0.036 ppb	8.240 ppb	0.002 ppb	-0.066 ppb	-0.015 ppb	-0.096 ppb	100.172 %
Recovery Percentage 1	-0.577 %	99.074 %	-4.631 %	23.260 %	-0.010 %	-3.155 %	-0.095 %	-1.560 %	
Concentration RSD	82.9 %	180.4 %	162.5 %	35.2 %	6,536.1 %	21.4 %	1,999.0 %	26.2 %	0.4 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	-0.579 ppb	0.217 ppb	-0.003 ppb	0.993 ppb	104.021 %	0.003 ppb	0.006 ppb	109.120 %	0.686 ppb
Concentration per Run 1	-0.550 ppb	0.408 ppb	-0.015 ppb	1.253 ppb	101.578 %	0.008 ppb	0.003 ppb	104.106 %	0.739 ppb
Concentration per Run 2	-0.572 ppb	-0.038 ppb	0.010 ppb	1.016 ppb	105.300 %	0.000 ppb	0.008 ppb	110.106 %	0.626 ppb
Concentration per Run 3	-0.616 ppb	0.281 ppb	-0.005 ppb	0.709 ppb	105.183 %	0.002 ppb	0.008 ppb	113.147 %	0.694 ppb
Recovery Percentage 1	-115.852 %	4.341 %	-0.034 %	49.629 %		0.751 %	3.130 %		17.157 %
Concentration RSD	5.8 %	105.8 %	371.2 %	27.4 %	2.0 %	138.2 %	40.7 %	4.2 %	8.3 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	0.000 ppb	111.065 %	106.464 %	0.352 ppb	0.026 ppb
Concentration per Run 1	0.000 ppb	106.016 %	103.289 %	0.249 ppb	0.033 ppb
Concentration per Run 2	0.000 ppb	112.890 %	107.305 %	0.414 ppb	0.029 ppb
Concentration per Run 3	0.000 ppb	114.288 %	108.799 %	0.394 ppb	0.016 ppb
Recovery Percentage 1	0.000 %			35.244 %	2.591 %
Concentration RSD	N/A	4.0 %	2.7 %	25.5 %	34.4 %

Alpha ICPMSQ Data with SRD

6/27/2024 4:21:36 AM

Analysis index:	71	User name	ALPHALAB\Metals-Instrument	Comment	CCV/MCCV
Analysis label:	CCV	Rack	0		
Analysis started at:	6/26/2024 4:54:17 PM	Vial	9		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	94.079 %	99.134 %	59.303 ppb	5,739.211 ppb	5,879.906 ppb	54.363 ppb	5,947.393 ppb	6,059.393 ppb	103.819 %
Concentration per Run 1	95.695 %	97.869 %	59.343 ppb	5,781.495 ppb	5,753.029 ppb	53.015 ppb	5,847.031 ppb	5,986.230 ppb	103.874 %
Concentration per Run 2	94.373 %	93.276 %	58.922 ppb	6,012.802 ppb	6,210.218 ppb	53.263 ppb	5,979.980 ppb	6,072.101 ppb	103.090 %
Concentration per Run 3	92.169 %	106.258 %	59.646 ppb	5,423.335 ppb	5,676.472 ppb	56.810 ppb	6,015.168 ppb	6,119.848 ppb	104.491 %
Recovery Percentage 1			98.839 %	95.654 %	97.998 %	90.604 %	99.123 %	100.990 %	
Concentration RSD	1.9 %	6.6 %	0.6 %	5.2 %	4.9 %	3.9 %	1.5 %	1.1 %	0.7 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	60.404 ppb	60.574 ppb	56.767 ppb	5,840.003 ppb	58.407 ppb	56.132 ppb	59.618 ppb	61.718 ppb	104.735 %
Concentration per Run 1	62.048 ppb	62.483 ppb	58.033 ppb	5,919.821 ppb	60.099 ppb	57.460 ppb	61.945 ppb	63.292 ppb	98.584 %
Concentration per Run 2	64.045 ppb	63.039 ppb	58.400 ppb	6,177.658 ppb	61.578 ppb	59.171 ppb	61.505 ppb	64.344 ppb	98.612 %
Concentration per Run 3	55.121 ppb	56.199 ppb	53.868 ppb	5,422.531 ppb	53.545 ppb	51.765 ppb	55.406 ppb	57.518 ppb	117.009 %
Recovery Percentage 1	100.674 %	100.956 %	94.612 %	97.333 %	97.346 %	93.553 %	99.364 %	102.863 %	
Concentration RSD	7.8 %	6.3 %	4.4 %	6.6 %	7.3 %	6.9 %	6.1 %	6.0 %	10.1 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	60.814 ppb	63.355 ppb	61.327 ppb	60.430 ppb	105.747 %	58.157 ppb	58.174 ppb	117.008 %	55.692 ppb
Concentration per Run 1	62.589 ppb	57.872 ppb	60.164 ppb	59.744 ppb	103.946 %	57.277 ppb	57.596 ppb	112.284 %	56.104 ppb
Concentration per Run 2	62.061 ppb	59.474 ppb	61.279 ppb	61.536 ppb	105.748 %	59.633 ppb	59.709 ppb	113.157 %	56.651 ppb
Concentration per Run 3	57.794 ppb	72.719 ppb	62.537 ppb	60.009 ppb	107.547 %	57.561 ppb	57.217 ppb	125.584 %	54.321 ppb
Recovery Percentage 1	101.357 %	105.591 %	102.211 %	100.716 %		96.928 %	96.956 %		92.820 %
Concentration RSD	4.3 %	12.9 %	1.9 %	1.6 %	1.7 %	2.2 %	2.3 %	6.4 %	2.2 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	60.998 ppb	115.699 %	111.592 %	64.551 ppb	65.483 ppb
Concentration per Run 1	56.190 ppb	113.765 %	108.568 %	64.484 ppb	65.709 ppb
Concentration per Run 2	63.984 ppb	111.910 %	108.122 %	66.967 ppb	67.238 ppb
Concentration per Run 3	62.821 ppb	121.421 %	118.087 %	62.204 ppb	63.501 ppb
Recovery Percentage 1	101.664 %			107.586 %	109.138 %
Concentration RSD	6.9 %	4.4 %	5.0 %	3.7 %	2.9 %

Alpha ICPMSQ Data with SRD

6/27/2024 4:21:36 AM

Analysis index:	72	User name	ALPHALAB\Metals-Instrument	Comment	CCB
Analysis label:	CCB	Rack	0		
Analysis started at:	6/26/2024 4:59:42 PM	Vial	10		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	90.355 %	106.458 %	0.006 ppb	-46.369 ppb	-0.835 ppb	-0.482 ppb	-15.997 ppb	-5.409 ppb	89.606 %
Concentration per Run 1	92.414 %	107.657 %	0.006 ppb	-47.226 ppb	-1.828 ppb	-0.914 ppb	-14.966 ppb	-8.332 ppb	91.149 %
Concentration per Run 2	90.418 %	106.458 %	0.001 ppb	-42.833 ppb	0.286 ppb	0.127 ppb	-6.900 ppb	0.609 ppb	89.163 %
Concentration per Run 3	88.234 %	105.260 %	0.010 ppb	-49.049 ppb	-0.962 ppb	-0.659 ppb	-26.124 ppb	-8.503 ppb	88.505 %
Recovery Percentage 1			1.213 %	-46.369 %	-1.193 %	-4.818 %	-15.997 %	-5.409 %	
Concentration RSD	2.3 %	1.1 %	73.8 %	6.9 %	127.3 %	112.7 %	60.3 %	96.4 %	1.5 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	-0.024 ppb	-0.042 ppb	-0.065 ppb	7.952 ppb	0.006 ppb	-0.047 ppb	-0.002 ppb	-0.053 ppb	102.241 %
Concentration per Run 1	0.009 ppb	-0.056 ppb	-0.112 ppb	9.706 ppb	0.008 ppb	-0.074 ppb	-0.015 ppb	-0.047 ppb	98.307 %
Concentration per Run 2	-0.042 ppb	0.005 ppb	-0.094 ppb	7.965 ppb	0.004 ppb	-0.066 ppb	0.010 ppb	-0.057 ppb	107.265 %
Concentration per Run 3	-0.040 ppb	-0.075 ppb	0.010 ppb	6.184 ppb	0.008 ppb	0.000 ppb	-0.001 ppb	-0.056 ppb	101.151 %
Recovery Percentage 1	-0.481 %	-4.192 %	-6.497 %	15.903 %	1.298 %	-2.338 %	-0.214 %	-1.065 %	
Concentration RSD	119.1 %	99.7 %	101.5 %	22.1 %	31.5 %	86.5 %	577.6 %	10.7 %	4.5 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	-0.642 ppb	0.376 ppb	-0.011 ppb	0.640 ppb	105.047 %	0.004 ppb	0.003 ppb	114.817 %	0.716 ppb
Concentration per Run 1	-0.817 ppb	0.946 ppb	-0.016 ppb	0.788 ppb	104.515 %	0.003 ppb	-0.002 ppb	110.352 %	0.830 ppb
Concentration per Run 2	-0.434 ppb	-0.044 ppb	-0.009 ppb	0.642 ppb	105.743 %	0.006 ppb	0.011 ppb	124.199 %	0.720 ppb
Concentration per Run 3	-0.675 ppb	0.227 ppb	-0.007 ppb	0.490 ppb	104.884 %	0.003 ppb	-0.002 ppb	109.900 %	0.597 ppb
Recovery Percentage 1	-128.397 %	7.528 %	-0.107 %	32.005 %		0.937 %	1.349 %		17.893 %
Concentration RSD	30.2 %	136.0 %	45.2 %	23.3 %	0.6 %	40.6 %	279.4 %	7.1 %	16.3 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	0.000 ppb	114.671 %	113.461 %	0.225 ppb	0.018 ppb
Concentration per Run 1	0.000 ppb	113.908 %	110.244 %	0.180 ppb	0.023 ppb
Concentration per Run 2	0.000 ppb	116.112 %	119.179 %	0.254 ppb	0.015 ppb
Concentration per Run 3	0.000 ppb	113.993 %	110.961 %	0.240 ppb	0.017 ppb
Recovery Percentage 1	0.000 %			22.486 %	1.837 %
Concentration RSD	N/A	1.1 %	4.4 %	17.6 %	23.9 %

Alpha ICPMSQ Data with SRD

6/27/2024 4:21:36 AM

Analysis index:	73	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	I2434679-09 6020SL	Rack	2		
Analysis started at:	6/26/2024 5:09:40 PM	Vial	25		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	97.417 %	105.127 %	0.003 ppb	11,258.571 ppb	6,320.685 ppb	1.363 ppb	2,747.127 ppb	34,549.237 ppb	97.312 %
Concentration per Run 1	97.936 %	112.850 %	0.002 ppb	10,758.447 ppb	5,921.415 ppb	0.748 ppb	2,632.590 ppb	33,757.090 ppb	96.489 %
Concentration per Run 2	98.005 %	107.257 %	0.011 ppb	10,957.010 ppb	6,338.299 ppb	2.204 ppb	2,749.263 ppb	34,703.730 ppb	98.996 %
Concentration per Run 3	96.312 %	95.273 %	-0.004 ppb	12,060.255 ppb	6,702.341 ppb	1.139 ppb	2,859.528 ppb	35,186.890 ppb	96.452 %
Concentration RSD	1.0 %	8.5 %	239.0 %	6.2 %	6.2 %	55.3 %	4.1 %	2.1 %	1.5 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.208 ppb	0.455 ppb	5.745 ppb	28.900 ppb	0.082 ppb	1.289 ppb	0.315 ppb	0.737 ppb	99.003 %
Concentration per Run 1	0.234 ppb	0.397 ppb	5.785 ppb	20.392 ppb	0.082 ppb	1.147 ppb	0.327 ppb	0.780 ppb	102.916 %
Concentration per Run 2	0.165 ppb	0.365 ppb	5.496 ppb	31.528 ppb	0.082 ppb	1.234 ppb	0.299 ppb	0.638 ppb	101.479 %
Concentration per Run 3	0.226 ppb	0.604 ppb	5.955 ppb	34.781 ppb	0.081 ppb	1.487 ppb	0.318 ppb	0.793 ppb	92.615 %
Concentration RSD	18.3 %	28.5 %	4.0 %	26.1 %	0.7 %	13.7 %	4.6 %	11.7 %	5.6 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	-0.277 ppb	0.292 ppb	101.517 ppb	1.685 ppb	103.380 %	-0.002 ppb	0.003 ppb	108.612 %	0.047 ppb
Concentration per Run 1	-0.235 ppb	0.068 ppb	99.600 ppb	1.538 ppb	104.010 %	-0.001 ppb	0.003 ppb	110.712 %	0.024 ppb
Concentration per Run 2	-0.397 ppb	0.095 ppb	102.613 ppb	1.752 ppb	104.167 %	-0.005 ppb	0.008 ppb	108.723 %	0.076 ppb
Concentration per Run 3	-0.200 ppb	0.713 ppb	102.337 ppb	1.766 ppb	101.963 %	0.001 ppb	-0.002 ppb	106.401 %	0.041 ppb
Concentration RSD	38.0 %	125.1 %	1.6 %	7.6 %	1.2 %	164.6 %	153.6 %	2.0 %	57.0 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	31.203 ppb	111.735 %	110.347 %	0.048 ppb	0.052 ppb
Concentration per Run 1	32.095 ppb	111.146 %	110.405 %	0.027 ppb	0.055 ppb
Concentration per Run 2	30.058 ppb	114.148 %	112.825 %	0.066 ppb	0.048 ppb
Concentration per Run 3	31.455 ppb	109.911 %	107.812 %	0.052 ppb	0.052 ppb
Concentration RSD	3.3 %	2.0 %	2.3 %	40.1 %	6.6 %

Alpha ICPMSQ Data with SRD

6/27/2024 4:21:36 AM

Analysis index:	74	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	I2434679-10 6020SL	Rack	2		
Analysis started at:	6/26/2024 5:14:19 PM	Vial	26		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	94.024 %	96.005 %	0.007 ppb	7,032.659 ppb	2,245.843 ppb	4.962 ppb	2,071.005 ppb	14,531.601 ppb	95.520 %
Concentration per Run 1	95.283 %	97.470 %	0.008 ppb	6,971.983 ppb	2,195.738 ppb	3.632 ppb	2,074.839 ppb	14,463.481 ppb	94.701 %
Concentration per Run 2	94.784 %	95.273 %	0.007 ppb	6,865.531 ppb	2,186.131 ppb	3.772 ppb	2,013.999 ppb	14,252.602 ppb	95.675 %
Concentration per Run 3	92.006 %	95.273 %	0.005 ppb	7,260.462 ppb	2,355.660 ppb	7.483 ppb	2,124.177 ppb	14,878.719 ppb	96.185 %
Concentration RSD	1.9 %	1.3 %	23.4 %	2.9 %	4.2 %	44.0 %	2.7 %	2.2 %	0.8 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.104 ppb	1.220 ppb	5.641 ppb	108.742 ppb	0.131 ppb	3.481 ppb	0.278 ppb	0.722 ppb	105.578 %
Concentration per Run 1	0.097 ppb	1.116 ppb	5.330 ppb	110.641 ppb	0.113 ppb	3.356 ppb	0.270 ppb	0.709 ppb	110.825 %
Concentration per Run 2	0.076 ppb	1.316 ppb	5.269 ppb	102.341 ppb	0.128 ppb	3.345 ppb	0.318 ppb	0.734 ppb	101.820 %
Concentration per Run 3	0.138 ppb	1.228 ppb	6.324 ppb	113.245 ppb	0.154 ppb	3.741 ppb	0.247 ppb	0.723 ppb	104.090 %
Concentration RSD	30.5 %	8.2 %	10.5 %	5.2 %	15.9 %	6.5 %	13.0 %	1.8 %	4.4 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	-0.689 ppb	0.093 ppb	59.127 ppb	0.287 ppb	103.693 %	-0.003 ppb	0.029 ppb	108.001 %	0.043 ppb
Concentration per Run 1	-0.634 ppb	0.379 ppb	56.963 ppb	0.260 ppb	105.528 %	-0.005 ppb	0.008 ppb	108.893 %	0.041 ppb
Concentration per Run 2	-0.573 ppb	-0.020 ppb	59.695 ppb	0.342 ppb	101.138 %	-0.002 ppb	0.048 ppb	104.242 %	0.030 ppb
Concentration per Run 3	-0.858 ppb	-0.079 ppb	60.724 ppb	0.259 ppb	104.414 %	-0.004 ppb	0.031 ppb	110.869 %	0.059 ppb
Concentration RSD	21.8 %	267.0 %	3.3 %	16.6 %	2.2 %	32.6 %	69.4 %	3.2 %	34.0 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	45.706 ppb	109.623 %	110.092 %	0.027 ppb	0.012 ppb
Concentration per Run 1	46.419 ppb	108.894 %	111.373 %	0.006 ppb	0.011 ppb
Concentration per Run 2	45.495 ppb	108.655 %	106.945 %	0.040 ppb	0.013 ppb
Concentration per Run 3	45.206 ppb	111.321 %	111.957 %	0.036 ppb	0.012 ppb
Concentration RSD	1.4 %	1.3 %	2.5 %	67.6 %	7.8 %

Alpha ICPMSQ Data with SRD

6/27/2024 4:21:36 AM

Analysis index:	75	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	I2434679-11 6020SL	Rack	2		
Analysis started at:	6/26/2024 5:18:59 PM	Vial	27		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	94.545 %	100.200 %	0.004 ppb	7,409.309 ppb	5,034.659 ppb	1.839 ppb	1,643.130 ppb	16,151.450 ppb	95.929 %
Concentration per Run 1	95.913 %	98.469 %	-0.002 ppb	7,839.050 ppb	5,466.313 ppb	2.037 ppb	1,709.093 ppb	17,038.848 ppb	96.586 %
Concentration per Run 2	94.925 %	101.265 %	0.000 ppb	6,939.917 ppb	4,705.659 ppb	1.151 ppb	1,555.061 ppb	15,187.748 ppb	94.510 %
Concentration per Run 3	92.797 %	100.866 %	0.013 ppb	7,448.959 ppb	4,932.006 ppb	2.329 ppb	1,665.235 ppb	16,227.753 ppb	96.692 %
Concentration RSD	1.7 %	1.5 %	229.1 %	6.1 %	7.8 %	33.3 %	4.8 %	5.7 %	1.3 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.169 ppb	0.300 ppb	1.015 ppb	9.557 ppb	0.049 ppb	0.840 ppb	0.094 ppb	0.480 ppb	101.665 %
Concentration per Run 1	0.079 ppb	0.278 ppb	1.262 ppb	6.978 ppb	0.050 ppb	0.889 ppb	0.068 ppb	0.397 ppb	97.396 %
Concentration per Run 2	0.236 ppb	0.323 ppb	0.890 ppb	9.680 ppb	0.046 ppb	0.854 ppb	0.101 ppb	0.547 ppb	100.705 %
Concentration per Run 3	0.192 ppb	0.298 ppb	0.892 ppb	12.015 ppb	0.052 ppb	0.777 ppb	0.114 ppb	0.497 ppb	106.895 %
Concentration RSD	47.7 %	7.6 %	21.1 %	26.4 %	6.4 %	6.8 %	24.8 %	16.0 %	4.7 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	-0.413 ppb	0.433 ppb	56.455 ppb	0.191 ppb	103.236 %	-0.003 ppb	0.014 ppb	109.788 %	0.001 ppb
Concentration per Run 1	-0.136 ppb	0.534 ppb	57.488 ppb	0.215 ppb	104.905 %	0.000 ppb	0.013 ppb	109.461 %	0.022 ppb
Concentration per Run 2	-0.472 ppb	0.255 ppb	54.726 ppb	0.137 ppb	101.768 %	-0.002 ppb	0.018 ppb	106.019 %	-0.025 ppb
Concentration per Run 3	-0.631 ppb	0.511 ppb	57.151 ppb	0.220 ppb	103.033 %	-0.006 ppb	0.012 ppb	113.883 %	0.005 ppb
Concentration RSD	61.2 %	35.8 %	2.7 %	24.3 %	1.5 %	96.8 %	22.3 %	3.6 %	3,315.2 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	23.550 ppb	110.984 %	108.317 %	0.024 ppb	0.014 ppb
Concentration per Run 1	24.053 ppb	110.822 %	110.261 %	0.005 ppb	0.015 ppb
Concentration per Run 2	23.101 ppb	109.642 %	102.006 %	0.038 ppb	0.017 ppb
Concentration per Run 3	23.497 ppb	112.490 %	112.682 %	0.030 ppb	0.009 ppb
Concentration RSD	2.0 %	1.3 %	5.2 %	70.0 %	30.6 %

Alpha ICPMSQ Data with SRD

6/27/2024 4:21:36 AM

Analysis index:	76	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	I2434679-12 6020SL	Rack	2		
Analysis started at:	6/26/2024 5:23:39 PM	Vial	28		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	97.397 %	107.523 %	-0.002 ppb	14.167 ppb	2.763 ppb	1.627 ppb	-7.975 ppb	48.129 ppb	98.878 %
Concentration per Run 1	98.680 %	101.065 %	-0.003 ppb	29.798 ppb	1.714 ppb	2.363 ppb	-4.110 ppb	42.531 ppb	99.604 %
Concentration per Run 2	98.108 %	108.456 %	0.000 ppb	10.908 ppb	3.149 ppb	1.360 ppb	-9.495 ppb	48.048 ppb	98.977 %
Concentration per Run 3	95.405 %	113.049 %	-0.002 ppb	1.794 ppb	3.425 ppb	1.157 ppb	-10.319 ppb	53.807 ppb	98.053 %
Concentration RSD	1.8 %	5.6 %	70.8 %	100.8 %	33.2 %	39.7 %	42.3 %	11.7 %	0.8 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.029 ppb	0.058 ppb	-0.024 ppb	1.600 ppb	0.008 ppb	-0.002 ppb	0.254 ppb	1.352 ppb	107.101 %
Concentration per Run 1	0.008 ppb	0.064 ppb	-0.089 ppb	0.817 ppb	0.005 ppb	-0.003 ppb	0.308 ppb	1.402 ppb	104.080 %
Concentration per Run 2	0.017 ppb	0.038 ppb	-0.050 ppb	0.895 ppb	0.015 ppb	-0.006 ppb	0.216 ppb	1.256 ppb	109.569 %
Concentration per Run 3	0.061 ppb	0.072 ppb	0.066 ppb	3.087 ppb	0.004 ppb	0.004 ppb	0.238 ppb	1.398 ppb	107.653 %
Concentration RSD	100.2 %	30.6 %	329.7 %	80.6 %	78.0 %	271.6 %	18.9 %	6.1 %	2.6 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	-0.517 ppb	0.239 ppb	0.029 ppb	0.153 ppb	107.362 %	-0.003 ppb	0.000 ppb	112.570 %	-0.009 ppb
Concentration per Run 1	-0.229 ppb	0.109 ppb	0.031 ppb	0.167 ppb	106.071 %	-0.005 ppb	-0.002 ppb	110.506 %	-0.041 ppb
Concentration per Run 2	-0.726 ppb	0.096 ppb	0.029 ppb	0.138 ppb	109.375 %	-0.003 ppb	-0.002 ppb	111.980 %	0.040 ppb
Concentration per Run 3	-0.596 ppb	0.513 ppb	0.026 ppb	0.153 ppb	106.640 %	-0.003 ppb	0.003 ppb	115.225 %	-0.027 ppb
Concentration RSD	49.8 %	99.2 %	9.0 %	9.5 %	1.6 %	36.4 %	2,031.3 %	2.1 %	456.5 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	0.131 ppb	112.168 %	110.524 %	0.007 ppb	0.013 ppb
Concentration per Run 1	0.194 ppb	112.409 %	111.857 %	-0.007 ppb	0.014 ppb
Concentration per Run 2	0.119 ppb	111.135 %	109.781 %	0.012 ppb	0.010 ppb
Concentration per Run 3	0.079 ppb	112.959 %	109.934 %	0.015 ppb	0.014 ppb
Concentration RSD	44.8 %	0.8 %	1.0 %	180.1 %	16.5 %

Alpha ICPMSQ Data with SRD

6/27/2024 4:21:36 AM

Analysis index:	77	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	I2434679-14 6020SL	Rack	2		
Analysis started at:	6/26/2024 5:28:18 PM	Vial	29		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	95.755 %	104.993 %	0.003 ppb	11,672.774 ppb	5,930.154 ppb	1.962 ppb	2,787.865 ppb	30,000.525 ppb	98.547 %
Concentration per Run 1	98.004 %	108.855 %	0.007 ppb	11,345.337 ppb	5,769.975 ppb	2.774 ppb	2,777.653 ppb	30,278.941 ppb	98.631 %
Concentration per Run 2	95.063 %	100.466 %	-0.001 ppb	12,274.074 ppb	6,282.950 ppb	1.098 ppb	3,038.560 ppb	31,497.400 ppb	98.168 %
Concentration per Run 3	94.200 %	105.659 %	0.004 ppb	11,398.910 ppb	5,737.536 ppb	2.013 ppb	2,547.381 ppb	28,225.233 ppb	98.841 %
Concentration RSD	2.1 %	4.0 %	119.7 %	4.5 %	5.2 %	42.8 %	8.8 %	5.5 %	0.3 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.296 ppb	0.513 ppb	1.976 ppb	19.430 ppb	0.047 ppb	1.289 ppb	0.321 ppb	0.577 ppb	109.710 %
Concentration per Run 1	0.372 ppb	0.510 ppb	2.156 ppb	20.157 ppb	0.031 ppb	1.257 ppb	0.324 ppb	0.641 ppb	99.894 %
Concentration per Run 2	0.231 ppb	0.526 ppb	1.876 ppb	17.955 ppb	0.075 ppb	1.332 ppb	0.344 ppb	0.565 ppb	118.817 %
Concentration per Run 3	0.287 ppb	0.503 ppb	1.895 ppb	20.179 ppb	0.036 ppb	1.278 ppb	0.295 ppb	0.524 ppb	110.417 %
Concentration RSD	23.9 %	2.3 %	7.9 %	6.6 %	51.2 %	3.0 %	7.8 %	10.3 %	8.6 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	-0.322 ppb	0.183 ppb	90.662 ppb	0.703 ppb	106.304 %	-0.002 ppb	0.001 ppb	117.188 %	-0.030 ppb
Concentration per Run 1	-0.127 ppb	0.096 ppb	91.161 ppb	0.723 ppb	104.669 %	-0.004 ppb	0.003 ppb	114.033 %	-0.023 ppb
Concentration per Run 2	-0.274 ppb	0.097 ppb	92.736 ppb	0.594 ppb	107.222 %	-0.003 ppb	0.003 ppb	120.602 %	-0.033 ppb
Concentration per Run 3	-0.566 ppb	0.356 ppb	88.088 ppb	0.793 ppb	107.022 %	-0.001 ppb	-0.002 ppb	116.929 %	-0.033 ppb
Concentration RSD	69.3 %	82.0 %	2.6 %	14.3 %	1.3 %	69.9 %	191.7 %	2.8 %	19.3 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	22.464 ppb	116.118 %	113.875 %	0.006 ppb	0.035 ppb
Concentration per Run 1	20.676 ppb	114.231 %	110.603 %	-0.006 ppb	0.039 ppb
Concentration per Run 2	22.469 ppb	117.922 %	120.742 %	0.009 ppb	0.029 ppb
Concentration per Run 3	24.246 ppb	116.201 %	110.281 %	0.017 ppb	0.036 ppb
Concentration RSD	7.9 %	1.6 %	5.2 %	179.1 %	15.0 %

Alpha ICPMSQ Data with SRD

6/27/2024 4:21:36 AM

Analysis index:	78	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	I2434790-01 6020SL	Rack	2		
Analysis started at:	6/26/2024 5:32:58 PM	Vial	30		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	89.249 %	101.598 %	0.004 ppb	71,552.722 ppb	21,397.337 ppb	15.872 ppb	8,575.465 ppb	125,175.904 ppb	99.420 %
Concentration per Run 1	90.266 %	106.059 %	0.003 ppb	69,364.744 ppb	20,996.946 ppb	16.832 ppb	8,641.496 ppb	123,944.511 ppb	98.799 %
Concentration per Run 2	89.215 %	98.069 %	0.003 ppb	74,629.970 ppb	22,184.466 ppb	15.454 ppb	8,807.806 ppb	130,867.914 ppb	99.972 %
Concentration per Run 3	88.265 %	100.666 %	0.007 ppb	70,663.450 ppb	21,010.599 ppb	15.330 ppb	8,277.092 ppb	120,715.286 ppb	99.489 %
Concentration RSD	1.1 %	4.0 %	60.9 %	3.8 %	3.2 %	5.3 %	3.2 %	4.1 %	0.6 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.759 ppb	0.462 ppb	1,477.068 ppb	3,422.403 ppb	0.120 ppb	6.774 ppb	0.246 ppb	1.324 ppb	106.467 %
Concentration per Run 1	0.804 ppb	0.403 ppb	1,438.241 ppb	3,275.605 ppb	0.121 ppb	6.477 ppb	0.232 ppb	1.362 ppb	111.450 %
Concentration per Run 2	0.628 ppb	0.515 ppb	1,561.292 ppb	3,597.869 ppb	0.133 ppb	7.200 ppb	0.282 ppb	1.387 ppb	101.151 %
Concentration per Run 3	0.846 ppb	0.468 ppb	1,431.671 ppb	3,393.734 ppb	0.107 ppb	6.643 ppb	0.224 ppb	1.225 ppb	106.799 %
Concentration RSD	15.2 %	12.2 %	4.9 %	4.8 %	10.8 %	5.6 %	12.7 %	6.6 %	4.8 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	1.026 ppb	0.457 ppb	1,001.623 ppb	5.188 ppb	103.990 %	-0.003 ppb	0.000 ppb	112.669 %	-0.019 ppb
Concentration per Run 1	1.002 ppb	0.460 ppb	999.333 ppb	5.077 ppb	104.337 %	-0.004 ppb	-0.002 ppb	112.552 %	0.003 ppb
Concentration per Run 2	1.240 ppb	0.526 ppb	1,019.405 ppb	4.706 ppb	104.464 %	-0.004 ppb	-0.002 ppb	112.368 %	-0.035 ppb
Concentration per Run 3	0.836 ppb	0.385 ppb	986.130 ppb	5.779 ppb	103.170 %	-0.002 ppb	0.003 ppb	113.087 %	-0.026 ppb
Concentration RSD	19.8 %	15.5 %	1.7 %	10.5 %	0.7 %	19.6 %	2,871.1 %	0.3 %	102.3 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	108.198 ppb	115.233 %	114.415 %	0.008 ppb	0.039 ppb
Concentration per Run 1	112.226 ppb	115.351 %	117.732 %	-0.007 ppb	0.039 ppb
Concentration per Run 2	105.274 ppb	114.960 %	112.985 %	0.012 ppb	0.043 ppb
Concentration per Run 3	107.094 ppb	115.387 %	112.527 %	0.018 ppb	0.036 ppb
Concentration RSD	3.3 %	0.2 %	2.5 %	170.3 %	9.7 %

Alpha ICPMSQ Data with SRD

6/27/2024 4:21:36 AM

Analysis index:	79	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	I2434790-02 6020SL	Rack	2		
Analysis started at:	6/26/2024 5:44:22 PM	Vial	31		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	95.817 %	106.924 %	-0.001 ppb	34,452.863 ppb	15,061.950 ppb	9.436 ppb	4,596.131 ppb	112,802.145 ppb	114.134 %
Concentration per Run 1	97.993 %	111.052 %	-0.003 ppb	33,307.183 ppb	14,572.238 ppb	9.275 ppb	4,422.624 ppb	111,025.184 ppb	115.975 %
Concentration per Run 2	95.119 %	107.257 %	-0.005 ppb	34,517.755 ppb	15,122.666 ppb	8.877 ppb	4,641.359 ppb	114,253.770 ppb	113.315 %
Concentration per Run 3	94.338 %	102.463 %	0.004 ppb	35,533.652 ppb	15,490.947 ppb	10.157 ppb	4,724.409 ppb	113,127.481 ppb	113.110 %
Concentration RSD	2.0 %	4.0 %	337.3 %	3.2 %	3.1 %	6.9 %	3.4 %	1.5 %	1.4 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	2.001 ppb	0.427 ppb	273.526 ppb	173.967 ppb	0.274 ppb	4.040 ppb	2.560 ppb	3.174 ppb	107.684 %
Concentration per Run 1	1.722 ppb	0.518 ppb	259.928 ppb	170.192 ppb	0.269 ppb	4.065 ppb	2.428 ppb	3.356 ppb	107.759 %
Concentration per Run 2	2.090 ppb	0.428 ppb	285.638 ppb	175.552 ppb	0.283 ppb	4.192 ppb	2.846 ppb	3.357 ppb	103.424 %
Concentration per Run 3	2.190 ppb	0.335 ppb	275.012 ppb	176.157 ppb	0.271 ppb	3.864 ppb	2.407 ppb	2.810 ppb	111.870 %
Concentration RSD	12.3 %	21.4 %	4.7 %	1.9 %	2.7 %	4.1 %	9.7 %	9.9 %	3.9 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.835 ppb	0.500 ppb	1,857.647 ppb	23.238 ppb	109.189 %	-0.003 ppb	0.064 ppb	133.482 %	0.529 ppb
Concentration per Run 1	0.781 ppb	0.360 ppb	1,766.875 ppb	21.566 ppb	114.914 %	-0.004 ppb	0.051 ppb	161.191 %	0.371 ppb
Concentration per Run 2	1.102 ppb	0.637 ppb	1,949.778 ppb	24.152 ppb	105.600 %	-0.003 ppb	0.065 ppb	121.454 %	0.605 ppb
Concentration per Run 3	0.622 ppb	0.504 ppb	1,856.289 ppb	23.997 ppb	107.051 %	-0.004 ppb	0.075 ppb	117.801 %	0.612 ppb
Concentration RSD	29.3 %	27.7 %	4.9 %	6.2 %	4.6 %	20.6 %	18.6 %	18.0 %	25.9 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	65.332 ppb	127.702 %	126.455 %	0.054 ppb	0.039 ppb
Concentration per Run 1	55.403 ppb	145.683 %	144.180 %	0.035 ppb	0.031 ppb
Concentration per Run 2	71.209 ppb	120.625 %	117.736 %	0.063 ppb	0.040 ppb
Concentration per Run 3	69.383 ppb	116.800 %	117.449 %	0.063 ppb	0.046 ppb
Concentration RSD	13.2 %	12.3 %	12.1 %	30.3 %	19.0 %

Alpha ICPMSQ Data with SRD

6/27/2024 4:21:36 AM

Analysis index:	80	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	I2434790-03 6020SL	Rack	2		
Analysis started at:	6/26/2024 5:49:01 PM	Vial	32		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	90.975 %	98.269 %	0.002 ppb	168,880.366 ppb	15,523.717 ppb	8.576 ppb	11,424.571 ppb	105,215.047 ppb	103.129 %
Concentration per Run 1	91.898 %	96.072 %	0.006 ppb	171,283.054 ppb	15,674.069 ppb	7.456 ppb	11,865.201 ppb	106,420.123 ppb	103.830 %
Concentration per Run 2	91.921 %	101.065 %	0.006 ppb	164,775.388 ppb	15,406.850 ppb	11.431 ppb	11,472.417 ppb	108,421.565 ppb	104.421 %
Concentration per Run 3	89.107 %	97.670 %	-0.005 ppb	170,582.657 ppb	15,490.232 ppb	6.843 ppb	10,936.096 ppb	100,803.453 ppb	101.137 %
Concentration RSD	1.8 %	2.6 %	284.5 %	2.1 %	0.9 %	29.0 %	4.1 %	3.8 %	1.7 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	3.076 ppb	0.994 ppb	586.022 ppb	784.892 ppb	0.797 ppb	68.467 ppb	2.896 ppb	4.345 ppb	102.514 %
Concentration per Run 1	3.322 ppb	1.132 ppb	580.909 ppb	774.247 ppb	0.712 ppb	66.861 ppb	2.780 ppb	4.424 ppb	103.171 %
Concentration per Run 2	2.949 ppb	0.988 ppb	603.361 ppb	817.209 ppb	0.820 ppb	69.869 ppb	2.953 ppb	4.363 ppb	101.501 %
Concentration per Run 3	2.957 ppb	0.862 ppb	573.797 ppb	763.219 ppb	0.858 ppb	68.670 ppb	2.953 ppb	4.247 ppb	102.869 %
Concentration RSD	6.9 %	13.6 %	2.6 %	3.6 %	9.5 %	2.2 %	3.5 %	2.1 %	0.9 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	2.092 ppb	0.813 ppb	632.948 ppb	167.543 ppb	99.972 %	-0.002 ppb	0.091 ppb	110.138 %	0.350 ppb
Concentration per Run 1	2.178 ppb	1.226 ppb	631.603 ppb	161.962 ppb	99.784 %	-0.003 ppb	0.078 ppb	113.860 %	0.318 ppb
Concentration per Run 2	2.600 ppb	0.420 ppb	651.450 ppb	167.234 ppb	100.684 %	0.001 ppb	0.103 ppb	112.053 %	0.311 ppb
Concentration per Run 3	1.498 ppb	0.793 ppb	615.790 ppb	173.433 ppb	99.450 %	-0.003 ppb	0.093 ppb	104.499 %	0.421 ppb
Concentration RSD	26.6 %	49.6 %	2.8 %	3.4 %	0.6 %	123.7 %	13.4 %	4.5 %	17.7 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	30.204 ppb	111.627 %	111.109 %	0.041 ppb	0.067 ppb
Concentration per Run 1	29.983 ppb	114.092 %	112.092 %	0.037 ppb	0.063 ppb
Concentration per Run 2	29.829 ppb	112.679 %	113.108 %	0.038 ppb	0.068 ppb
Concentration per Run 3	30.801 ppb	108.109 %	108.128 %	0.046 ppb	0.070 ppb
Concentration RSD	1.7 %	2.8 %	2.4 %	11.5 %	5.5 %

Alpha ICPMSQ Data with SRD

6/27/2024 4:21:36 AM

Analysis index:	81	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	I2434790-04 6020SL	Rack	2		
Analysis started at:	6/26/2024 5:53:40 PM	Vial	33		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	91.947 %	103.262 %	0.004 ppb	33,270.451 ppb	16,987.127 ppb	30.485 ppb	46,438.871 ppb	101,609.878 ppb	100.751 %
Concentration per Run 1	93.765 %	104.860 %	0.007 ppb	32,638.598 ppb	17,247.019 ppb	29.585 ppb	47,551.459 ppb	104,758.653 ppb	102.252 %
Concentration per Run 2	92.017 %	104.860 %	0.008 ppb	32,015.250 ppb	16,597.206 ppb	33.183 ppb	45,703.568 ppb	97,127.589 ppb	102.033 %
Concentration per Run 3	90.059 %	100.067 %	-0.001 ppb	35,157.504 ppb	17,117.158 ppb	28.687 ppb	46,061.586 ppb	102,943.392 ppb	97.968 %
Concentration RSD	2.0 %	2.7 %	113.4 %	5.0 %	2.0 %	7.8 %	2.1 %	3.9 %	2.4 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	2.793 ppb	3.514 ppb	373.706 ppb	1,405.286 ppb	1.420 ppb	38.718 ppb	1.281 ppb	4.265 ppb	102.496 %
Concentration per Run 1	2.657 ppb	3.769 ppb	385.788 ppb	1,474.715 ppb	1.491 ppb	39.680 ppb	1.368 ppb	4.455 ppb	99.713 %
Concentration per Run 2	3.008 ppb	3.483 ppb	359.139 ppb	1,376.591 ppb	1.399 ppb	39.001 ppb	1.364 ppb	4.130 ppb	98.238 %
Concentration per Run 3	2.715 ppb	3.290 ppb	376.192 ppb	1,364.552 ppb	1.371 ppb	37.472 ppb	1.109 ppb	4.209 ppb	109.537 %
Concentration RSD	6.7 %	6.8 %	3.6 %	4.3 %	4.4 %	2.9 %	11.6 %	4.0 %	6.0 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	11.787 ppb	0.916 ppb	511.316 ppb	274.506 ppb	103.080 %	0.000 ppb	0.045 ppb	108.731 %	0.365 ppb
Concentration per Run 1	12.368 ppb	1.097 ppb	518.968 ppb	270.208 ppb	102.930 %	-0.001 ppb	0.037 ppb	109.340 %	0.419 ppb
Concentration per Run 2	11.988 ppb	0.389 ppb	504.633 ppb	275.423 ppb	100.002 %	0.004 ppb	0.043 ppb	106.550 %	0.315 ppb
Concentration per Run 3	11.004 ppb	1.262 ppb	510.346 ppb	277.886 ppb	106.307 %	-0.004 ppb	0.055 ppb	110.303 %	0.362 ppb
Concentration RSD	6.0 %	50.6 %	1.4 %	1.4 %	3.1 %	2,239.0 %	20.8 %	1.8 %	14.3 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	19.915 ppb	112.343 %	113.113 %	0.001 ppb	0.059 ppb
Concentration per Run 1	19.099 ppb	111.687 %	113.593 %	-0.009 ppb	0.057 ppb
Concentration per Run 2	20.469 ppb	109.735 %	109.388 %	0.006 ppb	0.062 ppb
Concentration per Run 3	20.177 ppb	115.607 %	116.357 %	0.005 ppb	0.057 ppb
Concentration RSD	3.6 %	2.7 %	3.1 %	1,120.2 %	4.4 %

Alpha ICPMSQ Data with SRD

6/27/2024 4:21:36 AM

Analysis index:	82	User name	ALPHALAB\Metals-Instrument	Comment	not volumized
Analysis label:	xl2434790-05 6020SL	Rack	2		
Analysis started at:	6/26/2024 5:58:20 PM	Vial	34		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	241.189 %	285.227 %	-0.015 ppb	-141.838 ppb	-0.607 ppb	-1.929 ppb	-98.911 ppb	-17.130 ppb	23.430 %
Concentration per Run 1	275.243 %	274.840 %	-0.017 ppb	-134.110 ppb	-0.843 ppb	-1.611 ppb	-97.018 ppb	-12.491 ppb	28.188 %
Concentration per Run 2	275.361 %	273.442 %	-0.016 ppb	-141.120 ppb	-0.490 ppb	-2.064 ppb	-97.894 ppb	-22.165 ppb	26.569 %
Concentration per Run 3	172.964 %	307.399 %	-0.013 ppb	-150.284 ppb	-0.490 ppb	-2.112 ppb	-101.820 ppb	-16.732 ppb	15.534 %
Concentration RSD	24.5 %	6.7 %	12.2 %	5.7 %	33.6 %	14.3 %	2.6 %	28.3 %	29.4 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	-0.072 ppb	-0.227 ppb	-0.160 ppb	-2.799 ppb	-0.005 ppb	-0.127 ppb	-0.010 ppb	-0.133 ppb	274.845 %
Concentration per Run 1	-0.075 ppb	-0.221 ppb	-0.175 ppb	-2.589 ppb	-0.007 ppb	-0.135 ppb	-0.004 ppb	-0.142 ppb	273.869 %
Concentration per Run 2	-0.069 ppb	-0.227 ppb	-0.144 ppb	-2.810 ppb	-0.002 ppb	-0.109 ppb	-0.004 ppb	-0.121 ppb	258.846 %
Concentration per Run 3	-0.071 ppb	-0.232 ppb	-0.161 ppb	-2.997 ppb	-0.006 ppb	-0.138 ppb	-0.022 ppb	-0.135 ppb	291.818 %
Concentration RSD	4.7 %	2.5 %	9.5 %	7.3 %	47.0 %	12.6 %	106.3 %	7.9 %	6.0 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	-2.114 ppb	0.012 ppb	-0.030 ppb	0.635 ppb	240.909 %	-0.003 ppb	0.000 ppb	122.086 %	-0.107 ppb
Concentration per Run 1	-2.077 ppb	0.038 ppb	0.005 ppb	0.585 ppb	344.838 %	-0.005 ppb	0.000 ppb	215.073 %	-0.137 ppb
Concentration per Run 2	-2.088 ppb	0.042 ppb	-0.020 ppb	0.859 ppb	195.445 %	-0.002 ppb	0.002 ppb	110.396 %	-0.121 ppb
Concentration per Run 3	-2.177 ppb	-0.043 ppb	-0.073 ppb	0.461 ppb	182.445 %	-0.002 ppb	-0.002 ppb	40.789 %	-0.062 ppb
Concentration RSD	2.6 %	395.4 %	133.7 %	32.0 %	37.5 %	42.8 %	762.2 %	71.9 %	37.3 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	0.000 ppb	201.493 %	196.816 %	-0.019 ppb	-0.005 ppb
Concentration per Run 1	0.000 ppb	304.357 %	282.744 %	-0.020 ppb	-0.007 ppb
Concentration per Run 2	0.000 ppb	169.387 %	165.154 %	-0.018 ppb	-0.005 ppb
Concentration per Run 3	0.000 ppb	130.734 %	142.550 %	-0.021 ppb	-0.003 ppb
Concentration RSD	N/A	45.2 %	38.2 %	7.8 %	40.4 %

Alpha ICPMSQ Data with SRD

6/27/2024 4:21:36 AM

Analysis index:	83	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	CCV	Rack	0		
Analysis started at:	6/26/2024 6:03:00 PM	Vial	9		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	95.115 %	104.328 %	59.675 ppb	5,721.054 ppb	5,732.157 ppb	54.653 ppb	5,682.183 ppb	5,764.685 ppb	108.662 %
Concentration per Run 1	96.864 %	104.461 %	59.797 ppb	5,810.908 ppb	5,826.128 ppb	55.248 ppb	5,810.374 ppb	5,840.930 ppb	109.186 %
Concentration per Run 2	95.386 %	97.670 %	59.311 ppb	5,857.756 ppb	5,782.443 ppb	54.567 ppb	5,644.573 ppb	5,735.745 ppb	108.753 %
Concentration per Run 3	93.095 %	110.852 %	59.915 ppb	5,494.498 ppb	5,587.899 ppb	54.146 ppb	5,591.600 ppb	5,717.381 ppb	108.048 %
Recovery Percentage 1			99.458 %	95.351 %	95.536 %	91.089 %	94.703 %	96.078 %	
Concentration RSD	2.0 %	6.3 %	0.5 %	3.5 %	2.2 %	1.0 %	2.0 %	1.2 %	0.5 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	60.784 ppb	57.441 ppb	56.884 ppb	5,821.436 ppb	59.599 ppb	57.731 ppb	59.968 ppb	61.364 ppb	103.679 %
Concentration per Run 1	60.373 ppb	56.117 ppb	56.465 ppb	5,934.357 ppb	61.413 ppb	58.330 ppb	60.514 ppb	62.239 ppb	104.635 %
Concentration per Run 2	63.093 ppb	60.413 ppb	57.548 ppb	5,822.132 ppb	60.036 ppb	57.650 ppb	60.967 ppb	61.459 ppb	99.506 %
Concentration per Run 3	58.886 ppb	55.793 ppb	56.638 ppb	5,707.819 ppb	57.350 ppb	57.211 ppb	58.423 ppb	60.393 ppb	106.897 %
Recovery Percentage 1	101.307 %	95.735 %	94.806 %	97.024 %	99.332 %	96.218 %	99.947 %	102.273 %	
Concentration RSD	3.5 %	4.5 %	1.0 %	1.9 %	3.5 %	1.0 %	2.3 %	1.5 %	3.7 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	60.989 ppb	60.820 ppb	59.194 ppb	60.514 ppb	105.247 %	58.974 ppb	58.008 ppb	113.358 %	55.479 ppb
Concentration per Run 1	61.495 ppb	60.768 ppb	59.726 ppb	60.193 ppb	106.003 %	58.555 ppb	56.969 ppb	119.850 %	54.165 ppb
Concentration per Run 2	61.578 ppb	65.265 ppb	57.811 ppb	62.355 ppb	103.482 %	59.817 ppb	57.895 ppb	105.459 %	55.852 ppb
Concentration per Run 3	59.892 ppb	56.427 ppb	60.045 ppb	58.994 ppb	106.257 %	58.551 ppb	59.161 ppb	114.766 %	56.419 ppb
Recovery Percentage 1	101.648 %	101.367 %	98.656 %	100.857 %		98.290 %	96.680 %		92.464 %
Concentration RSD	1.6 %	7.3 %	2.0 %	2.8 %	1.5 %	1.2 %	1.9 %	6.4 %	2.1 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	59.465 ppb	112.827 %	108.771 %	63.246 ppb	64.007 ppb
Concentration per Run 1	55.478 ppb	112.978 %	109.177 %	61.667 ppb	62.986 ppb
Concentration per Run 2	63.812 ppb	109.079 %	103.030 %	65.461 ppb	66.206 ppb
Concentration per Run 3	59.104 ppb	116.426 %	114.106 %	62.610 ppb	62.829 ppb
Recovery Percentage 1	99.108 %			105.410 %	106.678 %
Concentration RSD	7.0 %	3.3 %	5.1 %	3.1 %	3.0 %

Alpha ICPMSQ Data with SRD

6/27/2024 4:21:36 AM

Analysis index:	84	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	CCB	Rack	0		
Analysis started at:	6/26/2024 6:07:43 PM	Vial	10		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	90.445 %	101.731 %	-0.002 ppb	-36.540 ppb	-0.954 ppb	-0.875 ppb	-0.815 ppb	7.654 ppb	90.163 %
Concentration per Run 1	92.332 %	99.667 %	0.009 ppb	-37.171 ppb	-1.376 ppb	-1.598 ppb	9.271 ppb	9.943 ppb	90.720 %
Concentration per Run 2	90.259 %	95.872 %	-0.007 ppb	-24.119 ppb	-0.903 ppb	-0.411 ppb	7.681 ppb	2.780 ppb	91.672 %
Concentration per Run 3	88.744 %	109.654 %	-0.009 ppb	-48.330 ppb	-0.582 ppb	-0.617 ppb	-19.397 ppb	10.241 ppb	88.098 %
Recovery Percentage 1			-0.465 %	-36.540 %	-1.362 %	-8.752 %	-0.815 %	7.654 %	
Concentration RSD	2.0 %	7.0 %	426.4 %	33.2 %	41.9 %	72.4 %	1,976.9 %	55.2 %	2.1 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	-0.007 ppb	-0.013 ppb	-0.088 ppb	9.098 ppb	0.009 ppb	0.002 ppb	0.008 ppb	-0.046 ppb	102.407 %
Concentration per Run 1	-0.022 ppb	-0.030 ppb	-0.085 ppb	10.863 ppb	0.014 ppb	-0.015 ppb	0.036 ppb	-0.054 ppb	99.621 %
Concentration per Run 2	0.043 ppb	0.012 ppb	-0.060 ppb	9.064 ppb	0.014 ppb	-0.007 ppb	-0.023 ppb	-0.036 ppb	101.883 %
Concentration per Run 3	-0.042 ppb	-0.020 ppb	-0.117 ppb	7.367 ppb	-0.001 ppb	0.027 ppb	0.010 ppb	-0.049 ppb	105.716 %
Recovery Percentage 1	-0.135 %	-1.262 %	-8.754 %	18.196 %	1.737 %	0.085 %	0.802 %	-0.923 %	
Concentration RSD	655.6 %	174.2 %	32.5 %	19.2 %	99.7 %	1,299.1 %	369.5 %	20.5 %	3.0 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	-0.660 ppb	0.148 ppb	-0.010 ppb	1.143 ppb	102.211 %	0.002 ppb	0.005 ppb	107.065 %	0.700 ppb
Concentration per Run 1	-0.694 ppb	-0.047 ppb	-0.031 ppb	1.055 ppb	98.455 %	0.003 ppb	0.009 ppb	101.876 %	0.737 ppb
Concentration per Run 2	-0.586 ppb	0.401 ppb	0.005 ppb	1.345 ppb	102.738 %	0.001 ppb	0.008 ppb	109.468 %	0.706 ppb
Concentration per Run 3	-0.699 ppb	0.091 ppb	-0.004 ppb	1.029 ppb	105.440 %	0.003 ppb	-0.002 ppb	109.852 %	0.657 ppb
Recovery Percentage 1	-131.914 %	2.965 %	-0.101 %	57.162 %		0.594 %	2.470 %		17.501 %
Concentration RSD	9.7 %	154.8 %	185.0 %	15.4 %	3.4 %	57.9 %	115.8 %	4.2 %	5.7 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	0.041 ppb	110.012 %	107.890 %	0.266 ppb	0.017 ppb
Concentration per Run 1	0.082 ppb	103.069 %	105.534 %	0.175 ppb	0.027 ppb
Concentration per Run 2	0.040 ppb	111.870 %	108.443 %	0.355 ppb	0.013 ppb
Concentration per Run 3	0.000 ppb	115.095 %	109.692 %	0.267 ppb	0.011 ppb
Recovery Percentage 1	8.165 %			26.572 %	1.711 %
Concentration RSD	100.9 %	5.7 %	2.0 %	33.8 %	50.4 %

Alpha ICPMSQ Data with SRD

6/27/2024 4:21:36 AM

Analysis index:	85	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	WG1939226-1 6020TL	Rack	2		
Analysis started at:	6/26/2024 6:30:42 PM	Vial	37		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	104.584 %	102.330 %	-0.008 ppb	-38.702 ppb	1.288 ppb	1.079 ppb	-18.460 ppb	31.699 ppb	136.172 %
Concentration per Run 1	106.345 %	102.863 %	-0.013 ppb	-45.703 ppb	1.674 ppb	1.574 ppb	-24.223 ppb	45.381 ppb	138.667 %
Concentration per Run 2	106.120 %	107.657 %	0.000 ppb	-45.443 ppb	0.288 ppb	0.612 ppb	-15.278 ppb	20.902 ppb	135.810 %
Concentration per Run 3	101.285 %	96.471 %	-0.010 ppb	-24.960 ppb	1.902 ppb	1.051 ppb	-15.880 ppb	28.814 ppb	134.039 %
Concentration RSD	2.7 %	5.5 %	87.1 %	30.8 %	67.8 %	44.6 %	27.1 %	39.4 %	1.7 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	-0.028 ppb	-0.004 ppb	-0.072 ppb	9.455 ppb	0.002 ppb	3.721 ppb	0.488 ppb	0.450 ppb	101.541 %
Concentration per Run 1	-0.040 ppb	-0.014 ppb	-0.041 ppb	9.685 ppb	-0.004 ppb	3.527 ppb	0.485 ppb	0.508 ppb	103.563 %
Concentration per Run 2	-0.056 ppb	-0.070 ppb	-0.067 ppb	9.208 ppb	0.004 ppb	3.743 ppb	0.496 ppb	0.367 ppb	103.579 %
Concentration per Run 3	0.013 ppb	0.071 ppb	-0.108 ppb	9.470 ppb	0.005 ppb	3.894 ppb	0.482 ppb	0.475 ppb	97.481 %
Concentration RSD	131.7 %	1,606.9 %	47.1 %	2.5 %	270.3 %	5.0 %	1.5 %	16.4 %	3.5 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	-0.388 ppb	0.147 ppb	0.023 ppb	0.555 ppb	110.550 %	-0.002 ppb	-0.001 ppb	161.220 %	0.028 ppb
Concentration per Run 1	-0.301 ppb	0.354 ppb	0.054 ppb	0.672 ppb	117.865 %	-0.002 ppb	0.001 ppb	217.857 %	-0.007 ppb
Concentration per Run 2	-0.525 ppb	-0.020 ppb	0.010 ppb	0.541 ppb	107.987 %	-0.003 ppb	-0.002 ppb	138.252 %	0.044 ppb
Concentration per Run 3	-0.336 ppb	0.107 ppb	0.004 ppb	0.452 ppb	105.798 %	-0.002 ppb	-0.002 ppb	127.551 %	0.047 ppb
Concentration RSD	31.1 %	129.6 %	119.9 %	20.0 %	5.8 %	28.1 %	221.4 %	30.6 %	107.9 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	0.101 ppb	133.934 %	132.623 %	0.065 ppb	0.003 ppb
Concentration per Run 1	0.080 ppb	166.547 %	162.488 %	0.058 ppb	0.000 ppb
Concentration per Run 2	0.109 ppb	119.889 %	119.716 %	0.077 ppb	0.004 ppb
Concentration per Run 3	0.113 ppb	115.367 %	115.665 %	0.062 ppb	0.006 ppb
Concentration RSD	17.6 %	21.2 %	19.6 %	14.9 %	87.7 %

Alpha ICPMSQ Data with SRD

6/27/2024 4:21:36 AM

Analysis index:	86	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	WG1939226-2d10 6020TL	Rack	2		
Analysis started at:	6/26/2024 6:35:22 PM	Vial	38		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	96.776 %	106.125 %	5.010 ppb	900.189 ppb	913.545 ppb	183.149 ppb	894.967 ppb	847.236 ppb	101.274 %
Concentration per Run 1	97.478 %	110.852 %	4.960 ppb	874.500 ppb	880.773 ppb	164.483 ppb	891.888 ppb	906.240 ppb	101.550 %
Concentration per Run 2	97.116 %	105.459 %	5.013 ppb	883.454 ppb	896.692 ppb	187.566 ppb	913.441 ppb	940.130 ppb	100.676 %
Concentration per Run 3	95.734 %	102.064 %	5.058 ppb	942.613 ppb	963.171 ppb	197.400 ppb	879.571 ppb	695.338 ppb	101.594 %
Concentration RSD	1.0 %	4.2 %	1.0 %	4.1 %	4.8 %	9.2 %	1.9 %	15.7 %	0.5 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	48.426 ppb	18.537 ppb	43.902 ppb	106.797 ppb	48.407 ppb	45.475 ppb	24.146 ppb	48.235 ppb	103.534 %
Concentration per Run 1	47.172 ppb	18.019 ppb	42.215 ppb	104.891 ppb	47.355 ppb	45.008 ppb	23.848 ppb	47.094 ppb	104.351 %
Concentration per Run 2	48.719 ppb	18.438 ppb	45.260 ppb	103.561 ppb	48.246 ppb	44.615 ppb	24.134 ppb	48.885 ppb	103.672 %
Concentration per Run 3	49.388 ppb	19.153 ppb	44.230 ppb	111.938 ppb	49.621 ppb	46.801 ppb	24.457 ppb	48.725 ppb	102.578 %
Concentration RSD	2.3 %	3.1 %	3.5 %	4.2 %	2.4 %	2.6 %	1.3 %	2.1 %	0.9 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	11.184 ppb	11.444 ppb	96.810 ppb	97.343 ppb	102.563 %	5.018 ppb	5.020 ppb	108.786 %	44.638 ppb
Concentration per Run 1	11.170 ppb	13.619 ppb	94.886 ppb	93.375 ppb	101.541 %	5.050 ppb	5.043 ppb	106.269 %	44.342 ppb
Concentration per Run 2	10.825 ppb	9.880 ppb	97.014 ppb	95.890 ppb	102.807 %	5.025 ppb	5.107 ppb	109.527 %	44.721 ppb
Concentration per Run 3	11.557 ppb	10.834 ppb	98.530 ppb	102.765 ppb	103.342 %	4.978 ppb	4.910 ppb	110.561 %	44.851 ppb
Concentration RSD	3.3 %	17.0 %	1.9 %	5.0 %	0.9 %	0.7 %	2.0 %	2.1 %	0.6 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	201.074 ppb	110.280 %	110.069 %	12.277 ppb	55.550 ppb
Concentration per Run 1	192.462 ppb	111.003 %	108.470 %	12.071 ppb	55.337 ppb
Concentration per Run 2	204.395 ppb	110.091 %	111.082 %	12.241 ppb	55.328 ppb
Concentration per Run 3	206.365 ppb	109.746 %	110.655 %	12.519 ppb	55.987 ppb
Concentration RSD	3.7 %	0.6 %	1.3 %	1.8 %	0.7 %

Alpha ICPMSQ Data with SRD

6/27/2024 4:21:36 AM

Analysis index:	87	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	I2434790-06 6020SL	Rack	2		
Analysis started at:	6/26/2024 6:40:02 PM	Vial	35		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	99.394 %	105.926 %	-0.005 ppb	103.610 ppb	7.456 ppb	2.573 ppb	2.736 ppb	69.072 ppb	98.437 %
Concentration per Run 1	101.261 %	115.047 %	-0.005 ppb	87.199 ppb	6.620 ppb	1.603 ppb	-4.283 ppb	76.911 ppb	99.945 %
Concentration per Run 2	99.471 %	100.266 %	-0.008 ppb	124.358 ppb	9.346 ppb	2.284 ppb	-5.504 ppb	67.017 ppb	97.453 %
Concentration per Run 3	97.450 %	102.463 %	-0.003 ppb	99.273 ppb	6.401 ppb	3.830 ppb	17.996 ppb	63.288 ppb	97.911 %
Concentration RSD	1.9 %	7.5 %	52.0 %	18.3 %	22.0 %	44.4 %	483.5 %	10.2 %	1.3 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.052 ppb	-0.092 ppb	0.909 ppb	2.748 ppb	0.007 ppb	0.200 ppb	0.187 ppb	14.205 ppb	105.200 %
Concentration per Run 1	0.064 ppb	-0.116 ppb	0.590 ppb	4.815 ppb	0.015 ppb	0.119 ppb	0.177 ppb	13.581 ppb	104.010 %
Concentration per Run 2	0.041 ppb	-0.089 ppb	1.075 ppb	0.867 ppb	0.008 ppb	0.247 ppb	0.212 ppb	14.697 ppb	102.751 %
Concentration per Run 3	0.050 ppb	-0.070 ppb	1.062 ppb	2.561 ppb	-0.001 ppb	0.233 ppb	0.172 ppb	14.338 ppb	108.838 %
Concentration RSD	22.7 %	25.6 %	30.4 %	72.1 %	116.4 %	35.1 %	11.8 %	4.0 %	3.1 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	-0.596 ppb	0.059 ppb	0.086 ppb	1.417 ppb	104.358 %	-0.001 ppb	-0.002 ppb	109.746 %	1.122 ppb
Concentration per Run 1	-0.299 ppb	-0.054 ppb	0.088 ppb	1.604 ppb	103.048 %	0.003 ppb	-0.002 ppb	108.412 %	1.237 ppb
Concentration per Run 2	-0.897 ppb	0.127 ppb	0.105 ppb	1.475 ppb	104.300 %	-0.001 ppb	-0.002 ppb	107.872 %	1.134 ppb
Concentration per Run 3	-0.593 ppb	0.105 ppb	0.064 ppb	1.173 ppb	105.727 %	-0.006 ppb	-0.002 ppb	112.953 %	0.996 ppb
Concentration RSD	50.2 %	165.9 %	23.6 %	15.6 %	1.3 %	324.2 %	0.0 %	2.5 %	10.8 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	0.105 ppb	109.353 %	110.513 %	0.042 ppb	0.021 ppb
Concentration per Run 1	0.158 ppb	107.198 %	109.725 %	0.026 ppb	0.028 ppb
Concentration per Run 2	0.039 ppb	109.038 %	110.436 %	0.049 ppb	0.018 ppb
Concentration per Run 3	0.117 ppb	111.823 %	111.376 %	0.053 ppb	0.017 ppb
Concentration RSD	57.6 %	2.1 %	0.7 %	33.5 %	30.2 %

Alpha ICPMSQ Data with SRD

6/27/2024 4:21:36 AM

Analysis index:	88	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	xl2434790-05d10 6020SL	Rack	2		
Analysis started at:	6/26/2024 6:44:42 PM	Vial	36		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	93.601 %	104.328 %	0.007 ppb	16,712.001 ppb	613.084 ppb	13.376 ppb	12,175.723 ppb	2,868.994 ppb	93.150 %
Concentration per Run 1	95.608 %	106.258 %	0.009 ppb	16,286.693 ppb	600.155 ppb	13.107 ppb	11,776.210 ppb	2,886.074 ppb	93.052 %
Concentration per Run 2	93.974 %	104.061 %	0.007 ppb	17,413.334 ppb	616.115 ppb	16.364 ppb	12,982.513 ppb	2,954.313 ppb	93.993 %
Concentration per Run 3	91.221 %	102.663 %	0.004 ppb	16,435.974 ppb	622.984 ppb	10.656 ppb	11,768.446 ppb	2,766.594 ppb	92.404 %
Concentration RSD	2.4 %	1.7 %	39.9 %	3.7 %	1.9 %	21.4 %	5.7 %	3.3 %	0.9 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	3.739 ppb	1.292 ppb	9.394 ppb	277.364 ppb	0.093 ppb	9.029 ppb	0.073 ppb	0.206 ppb	106.255 %
Concentration per Run 1	3.487 ppb	1.190 ppb	8.867 ppb	261.953 ppb	0.105 ppb	8.824 ppb	0.150 ppb	0.193 ppb	104.711 %
Concentration per Run 2	3.653 ppb	1.376 ppb	9.342 ppb	283.754 ppb	0.085 ppb	9.188 ppb	0.009 ppb	0.237 ppb	109.323 %
Concentration per Run 3	4.076 ppb	1.310 ppb	9.972 ppb	286.384 ppb	0.089 ppb	9.074 ppb	0.060 ppb	0.188 ppb	104.730 %
Concentration RSD	8.1 %	7.3 %	5.9 %	4.8 %	11.2 %	2.1 %	97.8 %	12.9 %	2.5 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	1.473 ppb	0.319 ppb	9.190 ppb	2.983 ppb	103.546 %	-0.005 ppb	0.000 ppb	111.612 %	0.383 ppb
Concentration per Run 1	1.596 ppb	0.384 ppb	8.797 ppb	2.670 ppb	100.482 %	-0.005 ppb	0.003 ppb	109.848 %	0.366 ppb
Concentration per Run 2	1.489 ppb	0.351 ppb	9.858 ppb	3.045 ppb	106.926 %	-0.004 ppb	-0.002 ppb	114.752 %	0.386 ppb
Concentration per Run 3	1.333 ppb	0.221 ppb	8.915 ppb	3.235 ppb	103.229 %	-0.006 ppb	-0.002 ppb	110.236 %	0.396 ppb
Concentration RSD	9.0 %	27.1 %	6.3 %	9.6 %	3.1 %	22.5 %	5,620.1 %	2.4 %	4.0 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	4.011 ppb	111.301 %	112.892 %	0.016 ppb	0.018 ppb
Concentration per Run 1	3.448 ppb	105.991 %	108.445 %	0.009 ppb	0.017 ppb
Concentration per Run 2	3.993 ppb	115.089 %	117.592 %	0.020 ppb	0.018 ppb
Concentration per Run 3	4.593 ppb	112.823 %	112.639 %	0.020 ppb	0.018 ppb
Concentration RSD	14.3 %	4.3 %	4.1 %	37.4 %	2.6 %

Alpha ICPMSQ Data with SRD

6/27/2024 4:21:36 AM

Analysis index:	89	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	L2435036-03 6020TL	Rack	2		
Analysis started at:	6/26/2024 6:49:22 PM	Vial	46		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	103.793 %	108.056 %	0.001 ppb	28,811.768 ppb	28,332.425 ppb	1.826 ppb	1,496.942 ppb	30,874.759 ppb	106.457 %
Concentration per Run 1	105.649 %	104.461 %	0.004 ppb	28,367.073 ppb	27,540.012 ppb	2.304 ppb	1,444.321 ppb	29,225.528 ppb	107.921 %
Concentration per Run 2	103.589 %	113.649 %	0.001 ppb	28,163.857 ppb	28,029.258 ppb	2.645 ppb	1,536.412 ppb	31,775.747 ppb	106.160 %
Concentration per Run 3	102.142 %	106.059 %	-0.001 ppb	29,904.374 ppb	29,428.006 ppb	0.531 ppb	1,510.094 ppb	31,623.001 ppb	105.289 %
Concentration RSD	1.7 %	4.5 %	226.1 %	3.3 %	3.5 %	62.1 %	3.2 %	4.6 %	1.3 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.008 ppb	-0.060 ppb	173.441 ppb	1,593.615 ppb	0.020 ppb	0.020 ppb	0.367 ppb	0.978 ppb	108.616 %
Concentration per Run 1	-0.057 ppb	-0.102 ppb	167.234 ppb	1,525.118 ppb	0.009 ppb	-0.085 ppb	0.312 ppb	0.872 ppb	109.161 %
Concentration per Run 2	0.042 ppb	-0.047 ppb	170.485 ppb	1,560.971 ppb	0.009 ppb	0.054 ppb	0.443 ppb	0.865 ppb	113.860 %
Concentration per Run 3	0.038 ppb	-0.032 ppb	182.603 ppb	1,694.756 ppb	0.041 ppb	0.091 ppb	0.345 ppb	1.198 ppb	102.828 %
Concentration RSD	741.0 %	61.0 %	4.7 %	5.6 %	94.1 %	466.9 %	18.6 %	19.5 %	5.1 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	-0.318 ppb	0.246 ppb	188.083 ppb	0.296 ppb	102.873 %	0.000 ppb	0.021 ppb	110.111 %	0.146 ppb
Concentration per Run 1	-0.294 ppb	0.504 ppb	177.380 ppb	0.287 ppb	99.629 %	-0.003 ppb	0.033 ppb	103.685 %	0.150 ppb
Concentration per Run 2	-0.382 ppb	-0.034 ppb	195.778 ppb	0.272 ppb	107.195 %	0.002 ppb	0.016 ppb	116.518 %	0.128 ppb
Concentration per Run 3	-0.278 ppb	0.267 ppb	191.091 ppb	0.328 ppb	101.795 %	0.002 ppb	0.013 ppb	110.130 %	0.159 ppb
Concentration RSD	17.6 %	109.8 %	5.1 %	9.9 %	3.8 %	11,668.0 %	53.0 %	5.8 %	10.8 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	85.641 ppb	108.268 %	111.707 %	-0.001 ppb	0.038 ppb
Concentration per Run 1	81.277 ppb	104.506 %	107.486 %	-0.011 ppb	0.036 ppb
Concentration per Run 2	88.765 ppb	113.221 %	118.071 %	-0.002 ppb	0.044 ppb
Concentration per Run 3	86.882 ppb	107.077 %	109.564 %	0.012 ppb	0.036 ppb
Concentration RSD	4.5 %	4.1 %	5.0 %	2,116.7 %	12.1 %

Alpha ICPMSQ Data with SRD

6/27/2024 4:21:36 AM

Analysis index:	90	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	L2435036-01 6020TL	Rack	2		
Analysis started at:	6/26/2024 6:54:02 PM	Vial	41		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	94.196 %	100.599 %	0.005 ppb	287,509.056 ppb	30,683.228 ppb	3.159 ppb	865.939 ppb	51,746.190 ppb	101.194 %
Concentration per Run 1	95.977 %	94.474 %	0.010 ppb	309,373.724 ppb	32,566.981 ppb	3.513 ppb	880.661 ppb	54,001.528 ppb	100.956 %
Concentration per Run 2	94.902 %	101.864 %	0.003 ppb	284,917.908 ppb	30,933.457 ppb	3.487 ppb	865.082 ppb	51,999.723 ppb	102.188 %
Concentration per Run 3	91.710 %	105.460 %	0.001 ppb	268,235.535 ppb	28,549.247 ppb	2.477 ppb	852.073 ppb	49,237.318 ppb	100.439 %
Concentration RSD	2.4 %	5.6 %	105.6 %	7.2 %	6.6 %	18.7 %	1.7 %	4.6 %	0.9 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.153 ppb	-0.017 ppb	5.366 ppb	11.309 ppb	0.049 ppb	0.352 ppb	0.538 ppb	0.912 ppb	105.239 %
Concentration per Run 1	0.123 ppb	0.005 ppb	5.089 ppb	10.297 ppb	0.065 ppb	0.336 ppb	0.448 ppb	0.822 ppb	103.522 %
Concentration per Run 2	0.173 ppb	-0.059 ppb	5.289 ppb	13.342 ppb	0.048 ppb	0.442 ppb	0.510 ppb	0.952 ppb	108.941 %
Concentration per Run 3	0.163 ppb	0.004 ppb	5.720 ppb	10.287 ppb	0.033 ppb	0.278 ppb	0.654 ppb	0.963 ppb	103.254 %
Concentration RSD	17.0 %	219.2 %	6.0 %	15.6 %	33.6 %	23.6 %	19.7 %	8.6 %	3.0 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	-0.217 ppb	0.373 ppb	295.045 ppb	0.171 ppb	96.732 %	0.000 ppb	0.012 ppb	106.418 %	0.214 ppb
Concentration per Run 1	0.017 ppb	0.521 ppb	297.612 ppb	0.144 ppb	97.044 %	0.000 ppb	0.003 ppb	105.511 %	0.235 ppb
Concentration per Run 2	-0.349 ppb	0.199 ppb	295.854 ppb	0.221 ppb	97.666 %	0.001 ppb	0.013 ppb	107.798 %	0.238 ppb
Concentration per Run 3	-0.320 ppb	0.400 ppb	291.671 ppb	0.147 ppb	95.487 %	-0.002 ppb	0.018 ppb	105.945 %	0.169 ppb
Concentration RSD	93.8 %	43.7 %	1.0 %	25.5 %	1.2 %	455.7 %	65.7 %	1.1 %	18.1 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	49.573 ppb	106.404 %	110.605 %	0.000 ppb	0.058 ppb
Concentration per Run 1	49.711 ppb	105.139 %	109.160 %	-0.008 ppb	0.058 ppb
Concentration per Run 2	50.559 ppb	107.031 %	113.350 %	0.003 ppb	0.056 ppb
Concentration per Run 3	48.451 ppb	107.041 %	109.305 %	0.004 ppb	0.059 ppb
Concentration RSD	2.1 %	1.0 %	2.2 %	1,810.2 %	2.7 %

Alpha ICPMSQ Data with SRD

6/27/2024 4:21:36 AM

Analysis index:	91	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	wg1939584-3d10 6020TL	Rack	2		
Analysis started at:	6/26/2024 6:58:42 PM	Vial	42		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	97.252 %	106.458 %	5.063 ppb	30,697.998 ppb	4,078.054 ppb	207.611 ppb	1,099.312 ppb	6,187.910 ppb	100.043 %
Concentration per Run 1	99.339 %	104.860 %	5.023 ppb	33,726.038 ppb	4,347.252 ppb	219.853 ppb	1,213.677 ppb	6,611.786 ppb	101.483 %
Concentration per Run 2	96.781 %	104.461 %	5.113 ppb	29,082.132 ppb	4,066.162 ppb	208.906 ppb	1,079.282 ppb	6,134.358 ppb	99.241 %
Concentration per Run 3	95.636 %	110.053 %	5.054 ppb	29,285.823 ppb	3,820.749 ppb	194.073 ppb	1,004.977 ppb	5,817.587 ppb	99.405 %
Concentration RSD	1.9 %	2.9 %	0.9 %	8.5 %	6.5 %	6.2 %	9.6 %	6.5 %	1.2 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	47.085 ppb	17.795 ppb	45.597 ppb	101.039 ppb	48.823 ppb	44.740 ppb	24.623 ppb	48.668 ppb	110.078 %
Concentration per Run 1	49.344 ppb	18.852 ppb	48.943 ppb	107.994 ppb	49.397 ppb	46.162 ppb	25.149 ppb	50.469 ppb	108.919 %
Concentration per Run 2	46.243 ppb	17.678 ppb	46.419 ppb	97.830 ppb	50.142 ppb	45.195 ppb	24.701 ppb	49.401 ppb	107.388 %
Concentration per Run 3	45.669 ppb	16.854 ppb	41.430 ppb	97.292 ppb	46.931 ppb	42.864 ppb	24.018 ppb	46.135 ppb	113.927 %
Concentration RSD	4.2 %	5.6 %	8.4 %	6.0 %	3.4 %	3.8 %	2.3 %	4.6 %	3.1 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	11.874 ppb	13.224 ppb	128.408 ppb	102.720 ppb	102.943 %	4.904 ppb	5.202 ppb	111.730 %	46.534 ppb
Concentration per Run 1	12.983 ppb	14.412 ppb	135.129 ppb	100.174 ppb	103.577 %	4.906 ppb	5.208 ppb	114.617 %	45.553 ppb
Concentration per Run 2	11.558 ppb	12.319 ppb	127.437 ppb	104.719 ppb	101.525 %	5.011 ppb	4.952 ppb	112.423 %	46.350 ppb
Concentration per Run 3	11.080 ppb	12.942 ppb	122.658 ppb	103.268 ppb	103.727 %	4.796 ppb	5.445 ppb	108.150 %	47.698 ppb
Concentration RSD	8.3 %	8.1 %	4.9 %	2.3 %	1.2 %	2.2 %	4.7 %	2.9 %	2.3 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	204.498 ppb	106.791 %	109.684 %	11.978 ppb	54.398 ppb
Concentration per Run 1	196.676 ppb	109.311 %	113.540 %	11.433 ppb	52.110 ppb
Concentration per Run 2	216.715 ppb	103.514 %	106.615 %	12.266 ppb	55.953 ppb
Concentration per Run 3	200.102 ppb	107.549 %	108.896 %	12.233 ppb	55.130 ppb
Concentration RSD	5.2 %	2.8 %	3.2 %	3.9 %	3.7 %

Alpha ICPMSQ Data with SRD

6/27/2024 4:21:36 AM

Analysis index:	92	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	wg1939584-4 6020TL	Rack	2		
Analysis started at:	6/26/2024 7:03:22 PM	Vial	43		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	94.487 %	99.734 %	0.006 ppb	288,780.528 ppb	30,442.114 ppb	5.538 ppb	833.311 ppb	52,037.613 ppb	100.651 %
Concentration per Run 1	95.665 %	97.670 %	0.000 ppb	302,515.741 ppb	32,141.275 ppb	6.025 ppb	956.243 ppb	54,822.589 ppb	100.784 %
Concentration per Run 2	94.847 %	96.871 %	0.012 ppb	293,940.850 ppb	30,336.198 ppb	5.390 ppb	788.908 ppb	52,802.422 ppb	100.219 %
Concentration per Run 3	92.948 %	104.661 %	0.005 ppb	269,884.992 ppb	28,848.868 ppb	5.198 ppb	754.780 ppb	48,487.827 ppb	100.951 %
Concentration RSD	1.5 %	4.3 %	107.9 %	5.9 %	5.4 %	7.8 %	12.9 %	6.2 %	0.4 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.139 ppb	-0.005 ppb	5.723 ppb	16.497 ppb	0.069 ppb	0.567 ppb	0.956 ppb	0.749 ppb	97.765 %
Concentration per Run 1	0.143 ppb	0.009 ppb	5.255 ppb	13.292 ppb	0.090 ppb	0.407 ppb	0.858 ppb	0.747 ppb	99.952 %
Concentration per Run 2	0.132 ppb	-0.026 ppb	5.896 ppb	18.057 ppb	0.069 ppb	0.722 ppb	1.073 ppb	0.681 ppb	96.133 %
Concentration per Run 3	0.141 ppb	0.002 ppb	6.019 ppb	18.144 ppb	0.047 ppb	0.570 ppb	0.938 ppb	0.818 ppb	97.211 %
Concentration RSD	4.0 %	388.2 %	7.2 %	16.8 %	31.9 %	27.8 %	11.3 %	9.1 %	2.0 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	-0.019 ppb	0.438 ppb	301.596 ppb	1.597 ppb	94.879 %	0.004 ppb	0.008 ppb	104.162 %	0.928 ppb
Concentration per Run 1	0.169 ppb	0.529 ppb	319.116 ppb	1.883 ppb	96.833 %	0.007 ppb	0.018 ppb	110.927 %	1.026 ppb
Concentration per Run 2	0.031 ppb	0.213 ppb	298.803 ppb	1.670 ppb	95.226 %	0.001 ppb	0.003 ppb	103.570 %	0.958 ppb
Concentration per Run 3	-0.257 ppb	0.572 ppb	286.868 ppb	1.238 ppb	92.577 %	0.003 ppb	0.004 ppb	97.988 %	0.800 ppb
Concentration RSD	1,133.4 %	44.7 %	5.4 %	20.6 %	2.3 %	77.5 %	98.6 %	6.2 %	12.5 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	51.118 ppb	105.371 %	106.802 %	0.026 ppb	0.095 ppb
Concentration per Run 1	50.840 ppb	108.512 %	111.098 %	0.033 ppb	0.125 ppb
Concentration per Run 2	54.067 ppb	105.150 %	105.110 %	0.024 ppb	0.081 ppb
Concentration per Run 3	48.447 ppb	102.452 %	104.198 %	0.023 ppb	0.081 ppb
Concentration RSD	5.5 %	2.9 %	3.5 %	21.6 %	26.5 %

Alpha ICPMSQ Data with SRD

6/27/2024 4:21:36 AM

Analysis index:	93	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	wg1939584-5d10 6020TL	Rack	2		
Analysis started at:	6/26/2024 7:08:02 PM	Vial	44		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	94.152 %	105.393 %	49.000 ppb	33,720.434 ppb	7,820.316 ppb	43.954 ppb	4,875.265 ppb	10,028.547 ppb	99.560 %
Concentration per Run 1	95.942 %	107.856 %	48.559 ppb	34,231.877 ppb	8,345.124 ppb	46.742 ppb	5,209.980 ppb	9,927.373 ppb	99.791 %
Concentration per Run 2	94.271 %	108.256 %	48.860 ppb	34,354.507 ppb	7,642.482 ppb	44.469 ppb	4,709.993 ppb	10,008.504 ppb	100.693 %
Concentration per Run 3	92.241 %	100.067 %	49.580 ppb	32,574.919 ppb	7,473.342 ppb	40.650 ppb	4,705.822 ppb	10,149.764 ppb	98.197 %
Concentration RSD	2.0 %	4.4 %	1.1 %	2.9 %	5.9 %	7.0 %	5.9 %	1.1 %	1.3 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	48.040 ppb	44.620 ppb	45.392 ppb	4,756.292 ppb	47.010 ppb	45.755 ppb	47.336 ppb	48.905 ppb	105.007 %
Concentration per Run 1	46.837 ppb	42.453 ppb	46.706 ppb	4,854.424 ppb	47.096 ppb	45.966 ppb	45.290 ppb	48.424 ppb	110.028 %
Concentration per Run 2	47.012 ppb	43.766 ppb	43.804 ppb	4,665.871 ppb	46.133 ppb	45.473 ppb	47.007 ppb	49.211 ppb	106.016 %
Concentration per Run 3	50.272 ppb	47.641 ppb	45.667 ppb	4,748.582 ppb	47.802 ppb	45.826 ppb	49.711 ppb	49.080 ppb	98.976 %
Concentration RSD	4.0 %	6.0 %	3.2 %	2.0 %	1.8 %	0.6 %	4.7 %	0.9 %	5.3 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	49.702 ppb	52.946 ppb	77.215 ppb	50.158 ppb	100.450 %	1.725 ppb	46.897 ppb	108.706 %	49.433 ppb
Concentration per Run 1	50.648 ppb	54.223 ppb	81.114 ppb	48.564 ppb	102.960 %	1.675 ppb	45.899 ppb	117.038 %	50.377 ppb
Concentration per Run 2	48.984 ppb	52.786 ppb	76.484 ppb	50.764 ppb	100.136 %	1.720 ppb	47.760 ppb	107.263 %	48.760 ppb
Concentration per Run 3	49.475 ppb	51.828 ppb	74.046 ppb	51.146 ppb	98.255 %	1.779 ppb	47.032 ppb	101.817 %	49.162 ppb
Concentration RSD	1.7 %	2.3 %	4.6 %	2.8 %	2.4 %	3.0 %	2.0 %	7.1 %	1.7 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	52.299 ppb	110.108 %	111.794 %	46.278 ppb	48.705 ppb
Concentration per Run 1	52.964 ppb	112.642 %	120.110 %	42.000 ppb	44.967 ppb
Concentration per Run 2	51.551 ppb	110.393 %	111.927 %	46.639 ppb	49.115 ppb
Concentration per Run 3	52.382 ppb	107.287 %	103.344 %	50.194 ppb	52.034 ppb
Concentration RSD	1.4 %	2.4 %	7.5 %	8.9 %	7.3 %

Alpha ICPMSQ Data with SRD

6/27/2024 4:21:36 AM

Analysis index:	94	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	wg1939584-6d5 6020TL	Rack	2		
Analysis started at:	6/26/2024 7:12:42 PM	Vial	45		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	96.751 %	106.658 %	0.008 ppb	56,975.623 ppb	6,029.819 ppb	0.516 ppb	138.297 ppb	10,529.003 ppb	98.148 %
Concentration per Run 1	97.771 %	103.462 %	0.010 ppb	61,657.008 ppb	6,368.164 ppb	0.647 ppb	146.123 ppb	11,256.960 ppb	98.410 %
Concentration per Run 2	97.283 %	116.844 %	0.014 ppb	52,205.367 ppb	5,514.698 ppb	-0.152 ppb	135.380 ppb	9,772.494 ppb	98.448 %
Concentration per Run 3	95.199 %	99.667 %	0.002 ppb	57,064.493 ppb	6,206.596 ppb	1.052 ppb	133.388 ppb	10,557.556 ppb	97.587 %
Concentration RSD	1.4 %	8.5 %	74.6 %	8.3 %	7.5 %	118.8 %	5.0 %	7.1 %	0.5 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.077 ppb	-0.066 ppb	1.163 ppb	8.013 ppb	0.013 ppb	0.112 ppb	0.112 ppb	0.350 ppb	106.236 %
Concentration per Run 1	0.095 ppb	-0.051 ppb	0.986 ppb	6.322 ppb	0.020 ppb	0.042 ppb	0.124 ppb	0.288 ppb	109.091 %
Concentration per Run 2	0.045 ppb	-0.064 ppb	1.093 ppb	6.424 ppb	0.012 ppb	0.198 ppb	0.076 ppb	0.380 ppb	107.736 %
Concentration per Run 3	0.090 ppb	-0.082 ppb	1.409 ppb	11.294 ppb	0.008 ppb	0.097 ppb	0.135 ppb	0.380 ppb	101.881 %
Concentration RSD	35.9 %	24.1 %	18.9 %	35.5 %	48.7 %	70.5 %	28.3 %	15.2 %	3.6 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	-0.421 ppb	0.240 ppb	57.474 ppb	0.945 ppb	103.109 %	-0.001 ppb	0.012 ppb	109.489 %	0.161 ppb
Concentration per Run 1	-0.383 ppb	0.768 ppb	60.332 ppb	1.130 ppb	101.485 %	-0.002 ppb	0.017 ppb	114.226 %	0.172 ppb
Concentration per Run 2	-0.560 ppb	-0.020 ppb	57.188 ppb	0.765 ppb	104.540 %	0.001 ppb	0.022 ppb	111.560 %	0.170 ppb
Concentration per Run 3	-0.321 ppb	-0.029 ppb	54.900 ppb	0.938 ppb	103.301 %	-0.002 ppb	-0.002 ppb	102.682 %	0.142 ppb
Concentration RSD	29.4 %	190.7 %	4.7 %	19.3 %	1.5 %	132.2 %	100.1 %	5.5 %	10.6 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	10.135 ppb	112.604 %	112.686 %	0.344 ppb	0.031 ppb
Concentration per Run 1	10.089 ppb	111.531 %	113.758 %	0.238 ppb	0.035 ppb
Concentration per Run 2	10.071 ppb	114.004 %	113.537 %	0.408 ppb	0.031 ppb
Concentration per Run 3	10.244 ppb	112.277 %	110.764 %	0.386 ppb	0.027 ppb
Concentration RSD	0.9 %	1.1 %	1.5 %	26.8 %	13.8 %

Alpha ICPMSQ Data with SRD

6/27/2024 4:21:36 AM

Analysis index:	95	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	CCV	Rack	0		
Analysis started at:	6/26/2024 7:17:22 PM	Vial	9		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	97.254 %	106.591 %	59.822 ppb	5,442.751 ppb	5,574.177 ppb	53.929 ppb	5,698.451 ppb	5,710.798 ppb	106.289 %
Concentration per Run 1	99.983 %	107.856 %	59.029 ppb	5,565.965 ppb	5,525.570 ppb	52.897 ppb	5,978.641 ppb	5,773.771 ppb	107.560 %
Concentration per Run 2	96.716 %	111.252 %	60.248 ppb	5,499.249 ppb	5,620.679 ppb	63.020 ppb	5,560.811 ppb	5,910.539 ppb	106.614 %
Concentration per Run 3	95.064 %	100.666 %	60.190 ppb	5,263.041 ppb	5,576.282 ppb	45.871 ppb	5,555.901 ppb	5,448.083 ppb	104.694 %
Recovery Percentage 1			99.704 %	90.713 %	92.903 %	89.882 %	94.974 %	95.180 %	
Concentration RSD	2.6 %	5.1 %	1.1 %	2.9 %	0.9 %	16.0 %	4.3 %	4.2 %	1.4 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	58.557 ppb	57.144 ppb	56.671 ppb	5,786.171 ppb	57.214 ppb	55.317 ppb	58.581 ppb	60.324 ppb	107.903 %
Concentration per Run 1	60.215 ppb	56.239 ppb	57.292 ppb	5,833.938 ppb	58.091 ppb	54.895 ppb	58.585 ppb	61.530 ppb	109.773 %
Concentration per Run 2	57.148 ppb	56.466 ppb	55.351 ppb	5,657.207 ppb	55.352 ppb	55.300 ppb	57.977 ppb	60.879 ppb	107.308 %
Concentration per Run 3	58.309 ppb	58.727 ppb	57.370 ppb	5,867.367 ppb	58.198 ppb	55.757 ppb	59.180 ppb	58.564 ppb	106.630 %
Recovery Percentage 1	97.595 %	95.240 %	94.452 %	96.436 %	95.356 %	92.196 %	97.634 %	100.540 %	
Concentration RSD	2.6 %	2.4 %	2.0 %	2.0 %	2.8 %	0.8 %	1.0 %	2.6 %	1.5 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	58.544 ppb	61.011 ppb	57.280 ppb	59.291 ppb	106.108 %	58.527 ppb	59.003 ppb	111.620 %	56.779 ppb
Concentration per Run 1	59.342 ppb	64.305 ppb	57.467 ppb	57.731 ppb	106.562 %	58.024 ppb	57.061 ppb	115.734 %	55.637 ppb
Concentration per Run 2	59.372 ppb	59.972 ppb	58.575 ppb	59.856 ppb	108.025 %	57.760 ppb	59.886 ppb	112.145 %	57.034 ppb
Concentration per Run 3	56.916 ppb	58.757 ppb	55.800 ppb	60.286 ppb	103.738 %	59.796 ppb	60.063 ppb	106.980 %	57.667 ppb
Recovery Percentage 1	97.573 %	101.686 %	95.467 %	98.818 %		97.544 %	98.339 %		94.632 %
Concentration RSD	2.4 %	4.8 %	2.4 %	2.3 %	2.1 %	1.9 %	2.9 %	3.9 %	1.8 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	57.872 ppb	111.251 %	112.240 %	62.835 ppb	62.942 ppb
Concentration per Run 1	59.963 ppb	110.846 %	111.746 %	61.948 ppb	62.287 ppb
Concentration per Run 2	57.279 ppb	112.408 %	116.451 %	61.305 ppb	61.526 ppb
Concentration per Run 3	56.374 ppb	110.499 %	108.523 %	65.251 ppb	65.012 ppb
Recovery Percentage 1	96.454 %			104.725 %	104.903 %
Concentration RSD	3.2 %	0.9 %	3.6 %	3.4 %	2.9 %

Alpha ICPMSQ Data with SRD

6/27/2024 4:21:36 AM

Analysis index:	96	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	CCB	Rack	0		
Analysis started at:	6/26/2024 7:22:05 PM	Vial	10		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	94.015 %	102.131 %	-0.001 ppb	-32.384 ppb	-0.056 ppb	-1.157 ppb	-20.969 ppb	0.491 ppb	92.739 %
Concentration per Run 1	95.477 %	110.653 %	0.004 ppb	-43.512 ppb	-0.181 ppb	-1.445 ppb	-28.179 ppb	-12.682 ppb	92.298 %
Concentration per Run 2	93.901 %	97.670 %	-0.002 ppb	-29.197 ppb	0.029 ppb	-1.443 ppb	-25.371 ppb	29.202 ppb	93.507 %
Concentration per Run 3	92.667 %	98.069 %	-0.004 ppb	-24.442 ppb	-0.016 ppb	-0.582 ppb	-9.358 ppb	-15.046 ppb	92.411 %
Recovery Percentage 1			-0.156 %	-32.384 %	-0.080 %	-11.567 %	-20.969 %	0.491 %	
Concentration RSD	1.5 %	7.2 %	569.1 %	30.7 %	196.2 %	43.0 %	48.4 %	5,066.5 %	0.7 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	-0.013 ppb	-0.052 ppb	-0.004 ppb	7.946 ppb	0.005 ppb	-0.053 ppb	0.010 ppb	-0.033 ppb	101.992 %
Concentration per Run 1	-0.027 ppb	-0.067 ppb	-0.047 ppb	9.500 ppb	0.012 ppb	-0.075 ppb	-0.031 ppb	-0.075 ppb	106.436 %
Concentration per Run 2	-0.020 ppb	-0.031 ppb	0.024 ppb	7.838 ppb	0.002 ppb	0.003 ppb	0.055 ppb	0.008 ppb	95.758 %
Concentration per Run 3	0.009 ppb	-0.058 ppb	0.011 ppb	6.499 ppb	0.002 ppb	-0.087 ppb	0.005 ppb	-0.032 ppb	103.783 %
Recovery Percentage 1	-0.253 %	-5.200 %	-0.414 %	15.892 %	1.092 %	-2.655 %	0.967 %	-0.662 %	
Concentration RSD	148.7 %	35.6 %	919.7 %	18.9 %	108.5 %	92.0 %	447.1 %	126.2 %	5.5 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	-0.679 ppb	0.272 ppb	-0.016 ppb	0.801 ppb	104.986 %	-0.001 ppb	0.003 ppb	109.721 %	0.712 ppb
Concentration per Run 1	-0.394 ppb	0.504 ppb	-0.015 ppb	0.834 ppb	103.531 %	0.002 ppb	0.003 ppb	107.961 %	0.801 ppb
Concentration per Run 2	-0.611 ppb	0.099 ppb	-0.015 ppb	0.906 ppb	104.403 %	-0.005 ppb	0.008 ppb	107.636 %	0.702 ppb
Concentration per Run 3	-1.030 ppb	0.213 ppb	-0.019 ppb	0.662 ppb	107.024 %	-0.002 ppb	-0.002 ppb	113.565 %	0.633 ppb
Recovery Percentage 1	-135.725 %	5.444 %	-0.159 %	40.043 %		-0.348 %	1.584 %		17.798 %
Concentration RSD	47.6 %	76.7 %	14.5 %	15.7 %	1.7 %	233.4 %	152.2 %	3.0 %	11.9 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	0.000 ppb	108.319 %	112.017 %	0.316 ppb	0.017 ppb
Concentration per Run 1	0.000 ppb	108.171 %	111.931 %	0.215 ppb	0.027 ppb
Concentration per Run 2	0.000 ppb	107.291 %	106.874 %	0.390 ppb	0.017 ppb
Concentration per Run 3	0.000 ppb	109.496 %	117.245 %	0.342 ppb	0.008 ppb
Recovery Percentage 1	0.000 %			31.573 %	1.739 %
Concentration RSD	N/A	1.0 %	4.6 %	28.5 %	52.5 %

Alpha ICPMSQ Data with SRD

6/27/2024 4:21:36 AM

Analysis index:	97	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	wg1939584-1 6020TL	Rack	2		
Analysis started at:	6/26/2024 7:26:49 PM	Vial	39		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	100.317 %	100.666 %	0.000 ppb	-22.963 ppb	1.464 ppb	1.837 ppb	-6.523 ppb	12.118 ppb	95.555 %
Concentration per Run 1	102.979 %	102.264 %	-0.006 ppb	-21.668 ppb	1.686 ppb	2.081 ppb	-2.917 ppb	28.823 ppb	96.317 %
Concentration per Run 2	102.003 %	96.072 %	0.011 ppb	-19.930 ppb	2.367 ppb	2.750 ppb	-3.780 ppb	-0.206 ppb	95.593 %
Concentration per Run 3	95.968 %	103.662 %	-0.005 ppb	-27.292 ppb	0.339 ppb	0.679 ppb	-12.872 ppb	7.738 ppb	94.754 %
Concentration RSD	3.8 %	4.0 %	37,021.1 %	16.8 %	70.5 %	57.5 %	84.6 %	123.8 %	0.8 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	-0.023 ppb	-0.010 ppb	0.184 ppb	3.718 ppb	0.008 ppb	0.005 ppb	0.168 ppb	0.788 ppb	102.592 %
Concentration per Run 1	-0.024 ppb	-0.046 ppb	0.179 ppb	4.425 ppb	0.007 ppb	-0.041 ppb	0.224 ppb	0.784 ppb	103.821 %
Concentration per Run 2	-0.021 ppb	0.036 ppb	0.175 ppb	2.084 ppb	0.002 ppb	-0.012 ppb	0.171 ppb	0.828 ppb	98.754 %
Concentration per Run 3	-0.025 ppb	-0.018 ppb	0.198 ppb	4.645 ppb	0.016 ppb	0.068 ppb	0.109 ppb	0.752 ppb	105.202 %
Concentration RSD	9.9 %	434.1 %	6.7 %	38.2 %	81.0 %	1,128.2 %	34.3 %	4.9 %	3.3 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	-0.580 ppb	0.160 ppb	0.009 ppb	0.193 ppb	106.385 %	-0.001 ppb	0.003 ppb	111.281 %	0.139 ppb
Concentration per Run 1	-0.546 ppb	-0.045 ppb	0.005 ppb	0.161 ppb	104.312 %	0.000 ppb	0.008 ppb	111.826 %	0.147 ppb
Concentration per Run 2	-0.630 ppb	0.411 ppb	-0.006 ppb	0.207 ppb	103.451 %	0.001 ppb	-0.002 ppb	108.800 %	0.129 ppb
Concentration per Run 3	-0.564 ppb	0.115 ppb	0.028 ppb	0.213 ppb	111.391 %	-0.005 ppb	0.003 ppb	113.216 %	0.141 ppb
Concentration RSD	7.6 %	144.4 %	200.7 %	14.7 %	4.1 %	206.7 %	156.7 %	2.0 %	6.5 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	0.053 ppb	110.420 %	110.546 %	0.088 ppb	0.020 ppb
Concentration per Run 1	0.040 ppb	108.580 %	109.608 %	0.044 ppb	0.019 ppb
Concentration per Run 2	0.080 ppb	107.130 %	108.431 %	0.109 ppb	0.018 ppb
Concentration per Run 3	0.038 ppb	115.551 %	113.600 %	0.111 ppb	0.023 ppb
Concentration RSD	45.2 %	4.1 %	2.5 %	43.7 %	12.8 %

Alpha ICPMSQ Data with SRD

6/27/2024 4:21:36 AM

Analysis index:	98	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	wg1939584-2d10 6020TL	Rack	2		
Analysis started at:	6/26/2024 7:31:29 PM	Vial	40		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	96.059 %	101.198 %	5.168 ppb	965.077 ppb	969.045 ppb	194.247 ppb	979.696 ppb	985.522 ppb	95.671 %
Concentration per Run 1	97.765 %	100.466 %	5.104 ppb	1,000.160 ppb	969.560 ppb	200.611 ppb	1,015.714 ppb	906.124 ppb	95.194 %
Concentration per Run 2	96.576 %	101.864 %	5.199 ppb	926.777 ppb	912.111 ppb	192.938 ppb	970.617 ppb	1,034.306 ppb	96.435 %
Concentration per Run 3	93.837 %	101.265 %	5.201 ppb	968.294 ppb	1,025.464 ppb	189.191 ppb	952.757 ppb	1,016.135 ppb	95.383 %
Concentration RSD	2.1 %	0.7 %	1.1 %	3.8 %	5.8 %	3.0 %	3.3 %	7.0 %	0.7 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	49.623 ppb	19.480 ppb	45.701 ppb	98.390 ppb	49.147 ppb	45.941 ppb	24.298 ppb	50.373 ppb	104.540 %
Concentration per Run 1	49.605 ppb	19.397 ppb	46.473 ppb	101.636 ppb	48.792 ppb	44.179 ppb	23.672 ppb	50.236 ppb	106.588 %
Concentration per Run 2	50.028 ppb	19.307 ppb	44.351 ppb	96.243 ppb	50.250 ppb	45.941 ppb	25.032 ppb	50.935 ppb	100.067 %
Concentration per Run 3	49.235 ppb	19.735 ppb	46.278 ppb	97.293 ppb	48.398 ppb	47.704 ppb	24.189 ppb	49.950 ppb	106.965 %
Concentration RSD	0.8 %	1.2 %	2.6 %	2.9 %	2.0 %	3.8 %	2.8 %	1.0 %	3.7 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	11.710 ppb	12.471 ppb	96.324 ppb	100.514 ppb	104.924 %	5.082 ppb	5.091 ppb	112.779 %	41.649 ppb
Concentration per Run 1	11.362 ppb	12.885 ppb	95.735 ppb	96.745 ppb	105.820 %	4.959 ppb	5.062 ppb	113.426 %	40.969 ppb
Concentration per Run 2	11.412 ppb	12.362 ppb	93.724 ppb	101.757 ppb	102.610 %	5.180 ppb	5.292 ppb	105.324 %	42.802 ppb
Concentration per Run 3	12.357 ppb	12.167 ppb	99.511 ppb	103.041 ppb	106.343 %	5.108 ppb	4.918 ppb	119.586 %	41.175 ppb
Concentration RSD	4.8 %	3.0 %	3.1 %	3.3 %	1.9 %	2.2 %	3.7 %	6.3 %	2.4 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	189.231 ppb	110.978 %	112.504 %	12.634 ppb	57.058 ppb
Concentration per Run 1	192.215 ppb	112.113 %	111.802 %	12.459 ppb	57.323 ppb
Concentration per Run 2	188.790 ppb	106.162 %	109.290 %	12.655 ppb	57.267 ppb
Concentration per Run 3	186.687 ppb	114.659 %	116.419 %	12.789 ppb	56.583 ppb
Concentration RSD	1.5 %	3.9 %	3.2 %	1.3 %	0.7 %

Alpha ICPMSQ Data with SRD

6/27/2024 4:21:36 AM

Analysis index:	99	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	L2435036-05 6020TL	Rack	2		
Analysis started at:	6/26/2024 7:36:09 PM	Vial	47		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	97.247 %	102.264 %	-0.004 ppb	54,099.996 ppb	1,532.869 ppb	57.020 ppb	2,142.302 ppb	15,069.731 ppb	96.805 %
Concentration per Run 1	99.374 %	105.859 %	-0.002 ppb	53,443.904 ppb	1,495.830 ppb	53.798 ppb	2,151.279 ppb	15,138.314 ppb	98.430 %
Concentration per Run 2	96.899 %	99.467 %	-0.005 ppb	53,373.572 ppb	1,493.787 ppb	54.313 ppb	2,027.529 ppb	14,379.611 ppb	96.553 %
Concentration per Run 3	95.469 %	101.465 %	-0.004 ppb	55,482.512 ppb	1,608.989 ppb	62.950 ppb	2,248.097 ppb	15,691.267 ppb	95.431 %
Concentration RSD	2.0 %	3.2 %	46.4 %	2.2 %	4.3 %	9.0 %	5.2 %	4.4 %	1.6 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	1.060 ppb	0.189 ppb	14.170 ppb	223.914 ppb	0.070 ppb	0.426 ppb	1.850 ppb	2.876 ppb	103.269 %
Concentration per Run 1	0.954 ppb	0.184 ppb	15.094 ppb	232.079 ppb	0.079 ppb	0.378 ppb	1.833 ppb	3.304 ppb	101.842 %
Concentration per Run 2	0.829 ppb	0.124 ppb	13.280 ppb	222.409 ppb	0.057 ppb	0.423 ppb	1.836 ppb	2.669 ppb	102.222 %
Concentration per Run 3	1.396 ppb	0.260 ppb	14.137 ppb	217.255 ppb	0.074 ppb	0.478 ppb	1.881 ppb	2.656 ppb	105.744 %
Concentration RSD	28.1 %	36.1 %	6.4 %	3.4 %	16.7 %	11.7 %	1.4 %	12.9 %	2.1 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	1.597 ppb	0.103 ppb	113.881 ppb	18.404 ppb	103.002 %	0.001 ppb	0.053 ppb	110.754 %	3.200 ppb
Concentration per Run 1	1.953 ppb	-0.055 ppb	115.966 ppb	17.950 ppb	102.809 %	0.003 ppb	0.037 ppb	108.298 %	3.545 ppb
Concentration per Run 2	1.447 ppb	0.392 ppb	109.735 ppb	18.625 ppb	101.303 %	-0.002 ppb	0.037 ppb	108.400 %	3.056 ppb
Concentration per Run 3	1.391 ppb	-0.028 ppb	115.943 ppb	18.638 ppb	104.893 %	0.002 ppb	0.085 ppb	115.565 %	3.000 ppb
Concentration RSD	19.4 %	243.0 %	3.2 %	2.1 %	1.8 %	363.5 %	52.6 %	3.8 %	9.4 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	12.853 ppb	110.036 %	113.605 %	0.065 ppb	0.211 ppb
Concentration per Run 1	12.812 ppb	110.011 %	112.662 %	0.061 ppb	0.204 ppb
Concentration per Run 2	12.497 ppb	106.889 %	111.672 %	0.071 ppb	0.216 ppb
Concentration per Run 3	13.250 ppb	113.208 %	116.482 %	0.063 ppb	0.212 ppb
Concentration RSD	2.9 %	2.9 %	2.2 %	8.1 %	2.7 %

Alpha ICPMSQ Data with SRD

6/27/2024 4:21:36 AM

Analysis index:	100	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	L2435036-07 6020TL	Rack	2		
Analysis started at:	6/26/2024 7:40:49 PM	Vial	48		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	98.469 %	107.523 %	-0.002 ppb	30,230.014 ppb	14,338.117 ppb	6.043 ppb	778.607 ppb	26,581.328 ppb	101.935 %
Concentration per Run 1	99.051 %	108.256 %	-0.008 ppb	29,608.027 ppb	13,918.799 ppb	4.542 ppb	739.818 ppb	26,865.924 ppb	102.096 %
Concentration per Run 2	99.213 %	106.059 %	0.001 ppb	31,130.362 ppb	14,884.365 ppb	6.871 ppb	796.908 ppb	27,006.188 ppb	102.452 %
Concentration per Run 3	97.143 %	108.256 %	0.002 ppb	29,951.654 ppb	14,211.186 ppb	6.717 ppb	799.095 ppb	25,871.873 ppb	101.257 %
Concentration RSD	1.2 %	1.2 %	319.4 %	2.6 %	3.5 %	21.6 %	4.3 %	2.3 %	0.6 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	2.493 ppb	0.116 ppb	36.738 ppb	11,992.165 ppb	0.095 ppb	0.274 ppb	0.466 ppb	3.633 ppb	105.518 %
Concentration per Run 1	2.437 ppb	0.144 ppb	36.715 ppb	12,388.320 ppb	0.067 ppb	0.361 ppb	0.529 ppb	3.949 ppb	96.720 %
Concentration per Run 2	2.664 ppb	0.130 ppb	36.592 ppb	11,822.236 ppb	0.098 ppb	0.201 ppb	0.404 ppb	3.545 ppb	109.470 %
Concentration per Run 3	2.378 ppb	0.076 ppb	36.908 ppb	11,765.938 ppb	0.119 ppb	0.259 ppb	0.466 ppb	3.404 ppb	110.363 %
Concentration RSD	6.1 %	31.1 %	0.4 %	2.9 %	27.4 %	29.5 %	13.3 %	7.8 %	7.2 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.897 ppb	0.140 ppb	1,548.795 ppb	1.854 ppb	103.311 %	-0.005 ppb	0.006 ppb	111.004 %	0.556 ppb
Concentration per Run 1	1.055 ppb	0.099 ppb	1,506.808 ppb	1.746 ppb	99.527 %	-0.005 ppb	0.003 ppb	105.035 %	0.667 ppb
Concentration per Run 2	0.833 ppb	-0.027 ppb	1,573.545 ppb	2.077 ppb	104.681 %	-0.005 ppb	0.008 ppb	114.425 %	0.510 ppb
Concentration per Run 3	0.802 ppb	0.349 ppb	1,566.032 ppb	1.738 ppb	105.724 %	-0.005 ppb	0.008 ppb	113.553 %	0.492 ppb
Concentration RSD	15.4 %	136.4 %	2.4 %	10.4 %	3.2 %	0.9 %	40.0 %	4.7 %	17.3 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	90.434 ppb	113.572 %	116.237 %	0.027 ppb	0.067 ppb
Concentration per Run 1	91.585 ppb	107.951 %	107.691 %	0.011 ppb	0.071 ppb
Concentration per Run 2	90.092 ppb	112.973 %	118.889 %	0.030 ppb	0.068 ppb
Concentration per Run 3	89.624 ppb	119.793 %	122.132 %	0.041 ppb	0.063 ppb
Concentration RSD	1.1 %	5.2 %	6.5 %	54.4 %	6.5 %

Alpha ICPMSQ Data with SRD

6/27/2024 4:21:36 AM

Analysis index:	101	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	L2435036-09 6020TL	Rack	2		
Analysis started at:	6/26/2024 7:45:30 PM	Vial	49		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	104.005 %	104.927 %	-0.004 ppb	29,368.125 ppb	30,627.765 ppb	1.505 ppb	1,195.168 ppb	27,905.790 ppb	105.080 %
Concentration per Run 1	106.283 %	95.672 %	-0.001 ppb	31,283.540 ppb	32,039.386 ppb	1.615 ppb	1,187.326 ppb	29,244.844 ppb	105.992 %
Concentration per Run 2	104.367 %	112.850 %	-0.003 ppb	28,373.064 ppb	28,901.097 ppb	1.556 ppb	1,180.010 ppb	26,263.618 ppb	106.426 %
Concentration per Run 3	101.363 %	106.258 %	-0.007 ppb	28,447.771 ppb	30,942.811 ppb	1.344 ppb	1,218.167 ppb	28,208.909 ppb	102.822 %
Concentration RSD	2.4 %	8.3 %	88.7 %	5.6 %	5.2 %	9.5 %	1.7 %	5.4 %	1.9 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.457 ppb	-0.018 ppb	58.588 ppb	3,528.470 ppb	0.058 ppb	0.198 ppb	0.619 ppb	0.620 ppb	104.905 %
Concentration per Run 1	0.455 ppb	0.020 ppb	58.935 ppb	3,639.356 ppb	0.063 ppb	0.165 ppb	0.617 ppb	0.752 ppb	96.287 %
Concentration per Run 2	0.431 ppb	-0.084 ppb	55.632 ppb	3,348.355 ppb	0.040 ppb	0.151 ppb	0.549 ppb	0.449 ppb	113.158 %
Concentration per Run 3	0.483 ppb	0.010 ppb	61.196 ppb	3,597.700 ppb	0.071 ppb	0.279 ppb	0.690 ppb	0.658 ppb	105.269 %
Concentration RSD	5.7 %	315.1 %	4.8 %	4.5 %	28.0 %	35.5 %	11.4 %	25.0 %	8.0 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	-0.007 ppb	0.015 ppb	374.228 ppb	0.261 ppb	103.059 %	-0.002 ppb	0.009 ppb	111.953 %	0.189 ppb
Concentration per Run 1	0.050 ppb	-0.021 ppb	368.290 ppb	0.205 ppb	100.508 %	-0.002 ppb	0.008 ppb	105.875 %	0.175 ppb
Concentration per Run 2	-0.123 ppb	0.101 ppb	370.514 ppb	0.382 ppb	102.727 %	-0.005 ppb	0.008 ppb	114.923 %	0.214 ppb
Concentration per Run 3	0.053 ppb	-0.036 ppb	383.880 ppb	0.196 ppb	105.942 %	0.000 ppb	0.012 ppb	115.062 %	0.179 ppb
Concentration RSD	1,491.4 %	518.2 %	2.3 %	40.2 %	2.7 %	84.4 %	26.2 %	4.7 %	11.2 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	57.784 ppb	113.656 %	114.098 %	0.012 ppb	0.054 ppb
Concentration per Run 1	59.030 ppb	110.950 %	107.839 %	0.002 ppb	0.064 ppb
Concentration per Run 2	55.534 ppb	114.933 %	116.038 %	0.015 ppb	0.046 ppb
Concentration per Run 3	58.789 ppb	115.086 %	118.417 %	0.019 ppb	0.051 ppb
Concentration RSD	3.4 %	2.1 %	4.9 %	74.7 %	17.7 %

Alpha ICPMSQ Data with SRD

6/27/2024 4:21:36 AM

Analysis index:	102	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	L2435036-11 6020TL	Rack	2		
Analysis started at:	6/26/2024 7:50:10 PM	Vial	50		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	99.164 %	105.060 %	0.002 ppb	43,690.803 ppb	8,766.568 ppb	1.588 ppb	821.375 ppb	28,515.198 ppb	99.723 %
Concentration per Run 1	100.191 %	107.257 %	-0.008 ppb	42,918.053 ppb	8,583.082 ppb	1.852 ppb	744.181 ppb	27,478.370 ppb	100.387 %
Concentration per Run 2	100.015 %	104.661 %	0.000 ppb	44,053.074 ppb	8,698.280 ppb	0.420 ppb	913.270 ppb	28,379.090 ppb	99.659 %
Concentration per Run 3	97.286 %	103.262 %	0.014 ppb	44,101.283 ppb	9,018.343 ppb	2.490 ppb	806.673 ppb	29,688.135 ppb	99.125 %
Concentration RSD	1.6 %	1.9 %	557.8 %	1.5 %	2.6 %	66.8 %	10.4 %	3.9 %	0.6 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.162 ppb	-0.033 ppb	510.560 ppb	1,657.782 ppb	0.060 ppb	0.895 ppb	2.633 ppb	2.572 ppb	104.235 %
Concentration per Run 1	0.182 ppb	-0.003 ppb	509.285 ppb	1,664.589 ppb	0.062 ppb	0.937 ppb	2.597 ppb	2.560 ppb	100.707 %
Concentration per Run 2	0.146 ppb	-0.039 ppb	519.782 ppb	1,692.131 ppb	0.063 ppb	0.796 ppb	2.524 ppb	2.611 ppb	104.740 %
Concentration per Run 3	0.159 ppb	-0.058 ppb	502.611 ppb	1,616.627 ppb	0.054 ppb	0.953 ppb	2.777 ppb	2.545 ppb	107.258 %
Concentration RSD	11.2 %	84.8 %	1.7 %	2.3 %	8.6 %	9.7 %	5.0 %	1.4 %	3.2 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.340 ppb	0.153 ppb	173.094 ppb	13.256 ppb	103.082 %	-0.002 ppb	0.014 ppb	112.835 %	0.112 ppb
Concentration per Run 1	0.326 ppb	0.096 ppb	168.519 ppb	12.796 ppb	99.452 %	-0.001 ppb	0.013 ppb	106.776 %	0.144 ppb
Concentration per Run 2	0.337 ppb	0.109 ppb	176.685 ppb	13.521 ppb	103.583 %	-0.004 ppb	0.021 ppb	116.975 %	0.093 ppb
Concentration per Run 3	0.358 ppb	0.256 ppb	174.077 ppb	13.450 ppb	106.213 %	0.000 ppb	0.008 ppb	114.755 %	0.099 ppb
Concentration RSD	4.8 %	58.0 %	2.4 %	3.0 %	3.3 %	93.2 %	49.2 %	4.8 %	25.1 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	58.643 ppb	114.832 %	117.408 %	0.015 ppb	0.630 ppb
Concentration per Run 1	60.178 ppb	109.263 %	108.529 %	0.002 ppb	0.655 ppb
Concentration per Run 2	58.523 ppb	115.798 %	120.069 %	0.024 ppb	0.623 ppb
Concentration per Run 3	57.226 ppb	119.436 %	123.626 %	0.019 ppb	0.611 ppb
Concentration RSD	2.5 %	4.5 %	6.7 %	74.4 %	3.6 %

Alpha ICPMSQ Data with SRD

6/27/2024 4:21:36 AM

Analysis index:	103	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	L2435036-13 6020TL	Rack	2		
Analysis started at:	6/26/2024 7:54:51 PM	Vial	51		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	99.859 %	102.730 %	-0.004 ppb	45,146.809 ppb	324.129 ppb	67.480 ppb	841.801 ppb	10,281.196 ppb	99.798 %
Concentration per Run 1	102.197 %	108.855 %	-0.005 ppb	41,754.030 ppb	308.915 ppb	61.155 ppb	809.642 ppb	10,338.285 ppb	99.794 %
Concentration per Run 2	99.801 %	99.867 %	-0.001 ppb	46,900.015 ppb	335.080 ppb	71.884 ppb	867.192 ppb	10,473.886 ppb	99.861 %
Concentration per Run 3	97.580 %	99.467 %	-0.008 ppb	46,786.383 ppb	328.392 ppb	69.401 ppb	848.568 ppb	10,031.418 ppb	99.738 %
Concentration RSD	2.3 %	5.2 %	79.8 %	6.5 %	4.2 %	8.3 %	3.5 %	2.2 %	0.1 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	8.570 ppb	0.102 ppb	0.395 ppb	14.044 ppb	0.092 ppb	0.716 ppb	1.922 ppb	0.824 ppb	102.952 %
Concentration per Run 1	8.529 ppb	0.090 ppb	0.460 ppb	15.012 ppb	0.080 ppb	0.662 ppb	2.077 ppb	0.773 ppb	98.591 %
Concentration per Run 2	8.393 ppb	0.121 ppb	0.406 ppb	13.154 ppb	0.099 ppb	0.847 ppb	1.786 ppb	0.953 ppb	103.047 %
Concentration per Run 3	8.788 ppb	0.094 ppb	0.317 ppb	13.967 ppb	0.096 ppb	0.639 ppb	1.903 ppb	0.747 ppb	107.217 %
Concentration RSD	2.3 %	16.6 %	18.3 %	6.6 %	10.9 %	16.0 %	7.6 %	13.6 %	4.2 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	4.640 ppb	0.329 ppb	55.583 ppb	75.404 ppb	102.965 %	0.002 ppb	0.107 ppb	111.174 %	0.412 ppb
Concentration per Run 1	4.842 ppb	0.523 ppb	55.732 ppb	74.313 ppb	100.636 %	0.003 ppb	0.119 ppb	108.925 %	0.394 ppb
Concentration per Run 2	4.849 ppb	0.206 ppb	55.538 ppb	73.742 ppb	105.829 %	0.000 ppb	0.116 ppb	110.989 %	0.448 ppb
Concentration per Run 3	4.230 ppb	0.257 ppb	55.479 ppb	78.158 ppb	102.428 %	0.002 ppb	0.087 ppb	113.607 %	0.395 ppb
Concentration RSD	7.7 %	51.7 %	0.2 %	3.2 %	2.6 %	116.3 %	16.4 %	2.1 %	7.5 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	4.276 ppb	111.489 %	117.611 %	0.002 ppb	0.071 ppb
Concentration per Run 1	4.006 ppb	108.652 %	111.765 %	-0.007 ppb	0.080 ppb
Concentration per Run 2	3.564 ppb	110.900 %	119.536 %	0.004 ppb	0.073 ppb
Concentration per Run 3	5.258 ppb	114.914 %	121.532 %	0.011 ppb	0.061 ppb
Concentration RSD	20.6 %	2.8 %	4.4 %	382.8 %	13.2 %

Alpha ICPMSQ Data with SRD

6/27/2024 4:21:36 AM

Analysis index:	104	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	L2435036-15 6020TL	Rack	2		
Analysis started at:	6/26/2024 7:59:31 PM	Vial	52		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	99.807 %	104.594 %	0.022 ppb	42,507.940 ppb	3,010.009 ppb	27.361 ppb	261.552 ppb	7,399.444 ppb	100.123 %
Concentration per Run 1	102.248 %	107.257 %	0.022 ppb	41,904.925 ppb	2,994.430 ppb	24.772 ppb	289.889 ppb	7,496.057 ppb	102.003 %
Concentration per Run 2	99.821 %	105.859 %	0.024 ppb	42,458.388 ppb	2,858.743 ppb	25.750 ppb	244.237 ppb	7,271.243 ppb	99.567 %
Concentration per Run 3	97.350 %	100.666 %	0.020 ppb	43,160.507 ppb	3,176.854 ppb	31.559 ppb	250.530 ppb	7,431.032 ppb	98.798 %
Concentration RSD	2.5 %	3.3 %	9.1 %	1.5 %	5.3 %	13.4 %	9.5 %	1.6 %	1.7 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.230 ppb	0.080 ppb	904.711 ppb	456.502 ppb	17.268 ppb	5.358 ppb	0.989 ppb	1.853 ppb	106.675 %
Concentration per Run 1	0.217 ppb	0.156 ppb	892.602 ppb	460.744 ppb	17.316 ppb	5.356 ppb	1.037 ppb	2.003 ppb	106.655 %
Concentration per Run 2	0.307 ppb	-0.046 ppb	888.507 ppb	436.502 ppb	16.961 ppb	5.254 ppb	0.858 ppb	1.691 ppb	107.963 %
Concentration per Run 3	0.164 ppb	0.129 ppb	933.024 ppb	472.259 ppb	17.528 ppb	5.463 ppb	1.072 ppb	1.866 ppb	105.406 %
Concentration RSD	31.6 %	137.4 %	2.7 %	4.0 %	1.7 %	2.0 %	11.6 %	8.4 %	1.2 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	-0.375 ppb	0.194 ppb	60.871 ppb	1.051 ppb	105.446 %	0.002 ppb	0.043 ppb	114.750 %	0.031 ppb
Concentration per Run 1	-0.436 ppb	0.107 ppb	60.611 ppb	1.310 ppb	103.458 %	0.003 ppb	0.059 ppb	113.168 %	0.052 ppb
Concentration per Run 2	-0.270 ppb	0.106 ppb	60.845 ppb	1.023 ppb	105.318 %	0.002 ppb	0.031 ppb	113.263 %	0.037 ppb
Concentration per Run 3	-0.419 ppb	0.370 ppb	61.158 ppb	0.820 ppb	107.561 %	0.002 ppb	0.039 ppb	117.818 %	0.003 ppb
Concentration RSD	24.3 %	78.5 %	0.5 %	23.4 %	1.9 %	36.1 %	34.0 %	2.3 %	80.5 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	20.279 ppb	113.400 %	115.583 %	0.003 ppb	0.066 ppb
Concentration per Run 1	19.142 ppb	111.089 %	114.924 %	-0.006 ppb	0.064 ppb
Concentration per Run 2	21.591 ppb	112.931 %	114.176 %	0.010 ppb	0.068 ppb
Concentration per Run 3	20.103 ppb	116.180 %	117.649 %	0.006 ppb	0.067 ppb
Concentration RSD	6.1 %	2.3 %	1.6 %	278.5 %	2.9 %

Alpha ICPMSQ Data with SRD

6/27/2024 4:21:36 AM

Analysis index:	105	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	L2435413-04 6020TL	Rack	2		
Analysis started at:	6/26/2024 8:04:12 PM	Vial	53		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	93.192 %	103.529 %	1.959 ppb	331,939.417 ppb	3,839.056 ppb	292.096 ppb	2,300.265 ppb	7,755.214 ppb	99.711 %
Concentration per Run 1	95.045 %	96.072 %	2.000 ppb	360,128.155 ppb	4,188.821 ppb	308.726 ppb	2,478.187 ppb	8,088.398 ppb	100.984 %
Concentration per Run 2	93.156 %	107.856 %	1.974 ppb	316,297.540 ppb	3,661.854 ppb	279.597 ppb	2,210.406 ppb	7,795.480 ppb	100.733 %
Concentration per Run 3	91.376 %	106.658 %	1.904 ppb	319,392.555 ppb	3,666.492 ppb	287.967 ppb	2,212.202 ppb	7,381.764 ppb	97.416 %
Concentration RSD	2.0 %	6.3 %	2.5 %	7.4 %	7.9 %	5.1 %	6.7 %	4.6 %	2.0 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	1.722 ppb	251.174 ppb	536.733 ppb	2,300.107 ppb	35.845 ppb	153.590 ppb	11.251 ppb	62.447 ppb	101.374 %
Concentration per Run 1	2.060 ppb	259.472 ppb	551.756 ppb	2,361.629 ppb	36.955 ppb	159.101 ppb	11.885 ppb	64.442 ppb	98.741 %
Concentration per Run 2	1.615 ppb	247.394 ppb	527.876 ppb	2,283.709 ppb	35.280 ppb	151.803 ppb	11.159 ppb	61.887 ppb	100.975 %
Concentration per Run 3	1.492 ppb	246.657 ppb	530.568 ppb	2,254.983 ppb	35.300 ppb	149.865 ppb	10.711 ppb	61.012 ppb	104.405 %
Concentration RSD	17.3 %	2.9 %	2.4 %	2.4 %	2.7 %	3.2 %	5.3 %	2.9 %	2.8 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.061 ppb	3.518 ppb	84.822 ppb	7.507 ppb	97.721 %	0.068 ppb	0.236 ppb	107.528 %	0.068 ppb
Concentration per Run 1	0.238 ppb	2.528 ppb	86.452 ppb	7.716 ppb	94.932 %	0.052 ppb	0.287 ppb	104.550 %	0.060 ppb
Concentration per Run 2	-0.045 ppb	4.181 ppb	83.614 ppb	7.336 ppb	98.906 %	0.081 ppb	0.200 ppb	110.639 %	0.059 ppb
Concentration per Run 3	-0.009 ppb	3.846 ppb	84.401 ppb	7.470 ppb	99.327 %	0.070 ppb	0.219 ppb	107.395 %	0.087 ppb
Concentration RSD	252.4 %	24.8 %	1.7 %	2.6 %	2.5 %	21.2 %	19.4 %	2.8 %	22.9 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	145.655 ppb	110.938 %	116.330 %	0.152 ppb	0.624 ppb
Concentration per Run 1	150.705 ppb	108.217 %	111.348 %	0.145 ppb	0.643 ppb
Concentration per Run 2	143.259 ppb	112.086 %	120.538 %	0.156 ppb	0.608 ppb
Concentration per Run 3	143.001 ppb	112.511 %	117.104 %	0.156 ppb	0.620 ppb
Concentration RSD	3.0 %	2.1 %	4.0 %	4.1 %	2.9 %

Alpha ICPMSQ Data with SRD

6/27/2024 4:21:36 AM

Analysis index:	106	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	L2435413-05 6020TL	Rack	2		
Analysis started at:	6/26/2024 8:08:52 PM	Vial	54		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	100.895 %	106.125 %	0.091 ppb	29,649.522 ppb	34,221.873 ppb	379.052 ppb	5,676.320 ppb	86,464.304 ppb	106.688 %
Concentration per Run 1	102.667 %	103.462 %	0.100 ppb	30,981.695 ppb	35,222.189 ppb	388.409 ppb	5,760.665 ppb	88,524.262 ppb	105.829 %
Concentration per Run 2	100.829 %	108.655 %	0.084 ppb	29,006.380 ppb	34,329.893 ppb	372.218 ppb	5,616.410 ppb	85,294.181 ppb	106.299 %
Concentration per Run 3	99.188 %	106.258 %	0.090 ppb	28,960.491 ppb	33,113.536 ppb	376.527 ppb	5,651.886 ppb	85,574.470 ppb	107.935 %
Concentration RSD	1.7 %	2.4 %	8.4 %	3.9 %	3.1 %	2.2 %	1.3 %	2.1 %	1.0 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.465 ppb	0.840 ppb	2,086.795 ppb	21,075.849 ppb	2.980 ppb	8.656 ppb	1.597 ppb	6.698 ppb	104.660 %
Concentration per Run 1	0.523 ppb	0.942 ppb	2,045.739 ppb	20,862.298 ppb	2.953 ppb	8.845 ppb	1.413 ppb	6.605 ppb	104.459 %
Concentration per Run 2	0.381 ppb	0.870 ppb	2,130.375 ppb	21,623.659 ppb	2.978 ppb	8.697 ppb	1.789 ppb	6.981 ppb	101.979 %
Concentration per Run 3	0.490 ppb	0.707 ppb	2,084.271 ppb	20,741.590 ppb	3.009 ppb	8.425 ppb	1.589 ppb	6.507 ppb	107.542 %
Concentration RSD	15.9 %	14.4 %	2.0 %	2.3 %	0.9 %	2.5 %	11.8 %	3.7 %	2.7 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	1.988 ppb	0.423 ppb	904.466 ppb	1.007 ppb	104.049 %	0.001 ppb	0.016 ppb	111.838 %	0.009 ppb
Concentration per Run 1	2.231 ppb	0.659 ppb	895.010 ppb	0.973 ppb	102.997 %	0.001 ppb	0.017 ppb	112.008 %	0.036 ppb
Concentration per Run 2	1.946 ppb	0.103 ppb	918.414 ppb	0.995 ppb	103.663 %	0.002 ppb	0.022 ppb	111.087 %	-0.017 ppb
Concentration per Run 3	1.787 ppb	0.506 ppb	899.975 ppb	1.053 ppb	105.486 %	0.002 ppb	0.008 ppb	112.420 %	0.006 ppb
Concentration RSD	11.3 %	68.0 %	1.4 %	4.1 %	1.2 %	40.5 %	46.6 %	0.6 %	310.2 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	515.195 ppb	114.619 %	118.717 %	0.009 ppb	0.601 ppb
Concentration per Run 1	520.578 ppb	112.086 %	116.756 %	0.002 ppb	0.577 ppb
Concentration per Run 2	496.851 ppb	115.764 %	121.883 %	0.012 ppb	0.594 ppb
Concentration per Run 3	528.155 ppb	116.009 %	117.512 %	0.011 ppb	0.632 ppb
Concentration RSD	3.2 %	1.9 %	2.3 %	64.1 %	4.7 %

Alpha ICPMSQ Data with SRD

6/27/2024 4:21:36 AM

Analysis index:	107	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	CCV	Rack	0		
Analysis started at:	6/26/2024 8:13:33 PM	Vial	9		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	97.035 %	103.595 %	59.351 ppb	5,639.249 ppb	5,711.354 ppb	59.164 ppb	5,639.831 ppb	5,798.360 ppb	104.580 %
Concentration per Run 1	98.868 %	100.067 %	58.978 ppb	5,802.932 ppb	5,850.301 ppb	61.365 ppb	5,894.816 ppb	5,709.610 ppb	104.937 %
Concentration per Run 2	97.230 %	99.268 %	59.250 ppb	5,759.099 ppb	5,736.939 ppb	63.099 ppb	5,527.598 ppb	5,848.258 ppb	105.499 %
Concentration per Run 3	95.006 %	111.452 %	59.826 ppb	5,355.717 ppb	5,546.823 ppb	53.028 ppb	5,497.078 ppb	5,837.213 ppb	103.305 %
Recovery Percentage 1			98.919 %	93.987 %	95.189 %	98.606 %	93.997 %	96.639 %	
Concentration RSD	2.0 %	6.6 %	0.7 %	4.4 %	2.7 %	9.1 %	3.9 %	1.3 %	1.1 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	60.732 ppb	60.987 ppb	58.656 ppb	5,824.576 ppb	57.878 ppb	56.293 ppb	58.932 ppb	61.523 ppb	106.580 %
Concentration per Run 1	60.944 ppb	61.751 ppb	57.521 ppb	5,961.881 ppb	59.158 ppb	59.112 ppb	59.484 ppb	62.423 ppb	103.623 %
Concentration per Run 2	60.868 ppb	61.287 ppb	59.979 ppb	5,865.181 ppb	58.256 ppb	54.236 ppb	58.953 ppb	61.226 ppb	108.029 %
Concentration per Run 3	60.383 ppb	59.923 ppb	58.469 ppb	5,646.665 ppb	56.219 ppb	55.530 ppb	58.359 ppb	60.920 ppb	108.087 %
Recovery Percentage 1	101.219 %	101.645 %	97.760 %	97.076 %	96.463 %	93.821 %	98.220 %	102.538 %	
Concentration RSD	0.5 %	1.6 %	2.1 %	2.8 %	2.6 %	4.5 %	1.0 %	1.3 %	2.4 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	60.489 ppb	63.233 ppb	59.643 ppb	59.282 ppb	108.686 %	58.513 ppb	58.116 ppb	114.983 %	56.495 ppb
Concentration per Run 1	60.316 ppb	58.998 ppb	59.148 ppb	56.869 ppb	107.279 %	58.433 ppb	57.501 ppb	110.876 %	56.877 ppb
Concentration per Run 2	61.128 ppb	66.209 ppb	58.606 ppb	60.449 ppb	107.404 %	60.048 ppb	59.657 ppb	111.698 %	56.956 ppb
Concentration per Run 3	60.023 ppb	64.493 ppb	61.175 ppb	60.526 ppb	111.375 %	57.059 ppb	57.191 ppb	122.375 %	55.651 ppb
Recovery Percentage 1	100.815 %	105.389 %	99.405 %	98.803 %		97.522 %	96.860 %		94.158 %
Concentration RSD	0.9 %	6.0 %	2.3 %	3.5 %	2.1 %	2.6 %	2.3 %	5.6 %	1.3 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	55.166 ppb	115.138 %	120.898 %	59.241 ppb	59.966 ppb
Concentration per Run 1	54.848 ppb	112.715 %	117.568 %	59.783 ppb	60.912 ppb
Concentration per Run 2	57.108 ppb	116.163 %	120.303 %	59.585 ppb	60.396 ppb
Concentration per Run 3	53.542 ppb	116.536 %	124.823 %	58.354 ppb	58.590 ppb
Recovery Percentage 1	91.943 %			98.735 %	99.943 %
Concentration RSD	3.3 %	1.8 %	3.0 %	1.3 %	2.0 %

Alpha ICPMSQ Data with SRD

6/27/2024 4:21:36 AM

Analysis index:	108	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	CCB	Rack	0		
Analysis started at:	6/26/2024 8:18:16 PM	Vial	10		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	95.024 %	99.867 %	0.006 ppb	16.963 ppb	0.208 ppb	-0.793 ppb	-5.804 ppb	-1.551 ppb	92.703 %
Concentration per Run 1	96.839 %	95.273 %	0.005 ppb	32.593 ppb	-0.418 ppb	-1.168 ppb	5.312 ppb	10.759 ppb	92.970 %
Concentration per Run 2	94.842 %	98.469 %	0.007 ppb	9.519 ppb	-0.032 ppb	-0.349 ppb	3.835 ppb	-8.480 ppb	92.861 %
Concentration per Run 3	93.390 %	105.859 %	0.006 ppb	8.778 ppb	1.074 ppb	-0.863 ppb	-26.559 ppb	-6.931 ppb	92.277 %
Recovery Percentage 1			1.202 %	16.963 %	0.297 %	-7.932 %	-5.804 %	-1.551 %	
Concentration RSD	1.8 %	5.4 %	15.2 %	79.8 %	372.2 %	52.2 %	309.9 %	689.4 %	0.4 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	-0.008 ppb	-0.027 ppb	-0.070 ppb	15.296 ppb	0.007 ppb	-0.073 ppb	0.007 ppb	-0.036 ppb	106.906 %
Concentration per Run 1	-0.003 ppb	-0.039 ppb	-0.160 ppb	20.674 ppb	0.011 ppb	-0.150 ppb	0.016 ppb	-0.023 ppb	97.753 %
Concentration per Run 2	0.023 ppb	-0.057 ppb	0.007 ppb	16.773 ppb	0.007 ppb	-0.043 ppb	0.018 ppb	-0.048 ppb	105.989 %
Concentration per Run 3	-0.044 ppb	0.015 ppb	-0.056 ppb	8.442 ppb	0.003 ppb	-0.025 ppb	-0.014 ppb	-0.036 ppb	116.975 %
Recovery Percentage 1	-0.163 %	-2.665 %	-6.969 %	30.592 %	1.462 %	-3.630 %	0.676 %	-0.714 %	
Concentration RSD	414.8 %	140.2 %	120.7 %	40.8 %	53.7 %	93.4 %	261.9 %	34.7 %	9.0 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	-0.590 ppb	0.120 ppb	-0.002 ppb	0.720 ppb	107.426 %	0.006 ppb	0.006 ppb	117.015 %	0.620 ppb
Concentration per Run 1	-0.235 ppb	-0.047 ppb	0.023 ppb	0.882 ppb	105.709 %	0.009 ppb	0.008 ppb	108.846 %	0.754 ppb
Concentration per Run 2	-0.777 ppb	0.210 ppb	-0.005 ppb	0.745 ppb	105.421 %	0.006 ppb	0.008 ppb	114.969 %	0.546 ppb
Concentration per Run 3	-0.757 ppb	0.198 ppb	-0.025 ppb	0.534 ppb	111.147 %	0.003 ppb	0.003 ppb	127.230 %	0.559 ppb
Recovery Percentage 1	-117.954 %	2.403 %	-0.024 %	35.998 %		1.516 %	2.996 %		15.489 %
Concentration RSD	52.1 %	120.9 %	1,010.7 %	24.3 %	3.0 %	50.6 %	49.7 %	8.0 %	18.8 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	0.012 ppb	115.249 %	118.711 %	0.278 ppb	0.013 ppb
Concentration per Run 1	0.000 ppb	111.954 %	113.654 %	0.192 ppb	0.016 ppb
Concentration per Run 2	0.000 ppb	112.459 %	116.887 %	0.337 ppb	0.017 ppb
Concentration per Run 3	0.035 ppb	121.334 %	125.593 %	0.305 ppb	0.006 ppb
Recovery Percentage 1	2.308 %			27.827 %	1.294 %
Concentration RSD	173.2 %	4.6 %	5.2 %	27.4 %	49.4 %

Alpha ICPMSQ Data with SRD

6/27/2024 4:21:36 AM

Analysis index:	109	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	Day 1 0.2	Rack	1		
Analysis started at:	6/26/2024 8:23:00 PM	Vial	60		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	99.203 %	106.059 %	-0.003 ppb	11,348.110 ppb	6,391.680 ppb	16.770 ppb	2,874.522 ppb	34,412.450 ppb	99.122 %
Concentration per Run 1	100.406 %	105.459 %	-0.007 ppb	11,419.645 ppb	6,469.313 ppb	16.449 ppb	2,862.177 ppb	36,277.065 ppb	98.808 %
Concentration per Run 2	100.000 %	108.655 %	-0.002 ppb	10,831.789 ppb	6,044.967 ppb	16.303 ppb	2,749.622 ppb	33,170.532 ppb	99.098 %
Concentration per Run 3	97.203 %	104.061 %	0.000 ppb	11,792.896 ppb	6,660.758 ppb	17.557 ppb	3,011.766 ppb	33,789.752 ppb	99.458 %
Concentration RSD	1.8 %	2.2 %	114.3 %	4.3 %	4.9 %	4.1 %	4.6 %	4.8 %	0.3 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.387 ppb	35.658 ppb	13.818 ppb	389.780 ppb	0.971 ppb	36.312 ppb	3.063 ppb	0.942 ppb	111.056 %
Concentration per Run 1	0.447 ppb	38.793 ppb	14.081 ppb	403.720 ppb	0.981 ppb	39.992 ppb	3.452 ppb	1.015 ppb	98.144 %
Concentration per Run 2	0.365 ppb	34.871 ppb	13.207 ppb	383.864 ppb	0.970 ppb	34.994 ppb	2.888 ppb	0.785 ppb	113.276 %
Concentration per Run 3	0.349 ppb	33.310 ppb	14.167 ppb	381.755 ppb	0.961 ppb	33.950 ppb	2.850 ppb	1.025 ppb	121.746 %
Concentration RSD	13.6 %	7.9 %	3.8 %	3.1 %	1.0 %	8.9 %	11.0 %	14.5 %	10.8 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	-0.575 ppb	0.406 ppb	100.143 ppb	3.832 ppb	106.769 %	0.001 ppb	0.003 ppb	116.399 %	0.209 ppb
Concentration per Run 1	-0.283 ppb	0.865 ppb	102.448 ppb	4.007 ppb	104.213 %	0.001 ppb	-0.002 ppb	111.201 %	0.201 ppb
Concentration per Run 2	-0.742 ppb	0.245 ppb	96.091 ppb	3.963 ppb	104.542 %	0.002 ppb	0.003 ppb	115.342 %	0.230 ppb
Concentration per Run 3	-0.698 ppb	0.108 ppb	101.889 ppb	3.527 ppb	111.551 %	0.001 ppb	0.007 ppb	122.654 %	0.195 ppb
Concentration RSD	44.1 %	99.3 %	3.5 %	6.9 %	3.9 %	39.2 %	156.7 %	5.0 %	9.0 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	31.693 ppb	114.669 %	118.681 %	0.078 ppb	0.066 ppb
Concentration per Run 1	31.621 ppb	110.596 %	113.024 %	0.051 ppb	0.067 ppb
Concentration per Run 2	32.265 ppb	113.679 %	115.483 %	0.097 ppb	0.072 ppb
Concentration per Run 3	31.194 ppb	119.732 %	127.536 %	0.085 ppb	0.060 ppb
Concentration RSD	1.7 %	4.1 %	6.5 %	31.1 %	9.3 %

Alpha ICPMSQ Data with SRD

6/27/2024 4:21:36 AM

Analysis index:	110	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	Day 1 10	Rack	2		
Analysis started at:	6/26/2024 8:27:40 PM	Vial	1		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	98.637 %	107.723 %	0.011 ppb	6,612.954 ppb	2,138.524 ppb	57.040 ppb	2,021.475 ppb	14,421.765 ppb	97.521 %
Concentration per Run 1	101.183 %	104.860 %	0.020 ppb	6,846.200 ppb	2,171.417 ppb	60.510 ppb	2,074.320 ppb	15,050.920 ppb	98.378 %
Concentration per Run 2	98.937 %	110.053 %	0.012 ppb	6,320.712 ppb	2,053.675 ppb	50.245 ppb	1,948.216 ppb	13,993.294 ppb	98.208 %
Concentration per Run 3	95.791 %	108.256 %	0.003 ppb	6,671.951 ppb	2,190.479 ppb	60.366 ppb	2,041.889 ppb	14,221.080 ppb	95.976 %
Concentration RSD	2.7 %	2.4 %	74.5 %	4.0 %	3.5 %	10.3 %	3.2 %	3.9 %	1.4 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.512 ppb	24.974 ppb	10.922 ppb	334.621 ppb	0.648 ppb	18.728 ppb	1.273 ppb	1.243 ppb	109.862 %
Concentration per Run 1	0.525 ppb	27.128 ppb	10.969 ppb	355.272 ppb	0.721 ppb	19.255 ppb	1.482 ppb	1.175 ppb	103.210 %
Concentration per Run 2	0.584 ppb	24.403 ppb	10.671 ppb	336.411 ppb	0.639 ppb	19.191 ppb	1.130 ppb	1.217 ppb	105.145 %
Concentration per Run 3	0.428 ppb	23.391 ppb	11.127 ppb	312.179 ppb	0.583 ppb	17.738 ppb	1.208 ppb	1.338 ppb	121.231 %
Concentration RSD	15.3 %	7.7 %	2.1 %	6.5 %	10.7 %	4.6 %	14.5 %	6.8 %	9.0 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	-0.314 ppb	0.222 ppb	59.509 ppb	1.268 ppb	106.241 %	-0.001 ppb	0.035 ppb	118.807 %	0.087 ppb
Concentration per Run 1	0.047 ppb	0.362 ppb	58.970 ppb	1.374 ppb	104.327 %	0.000 ppb	0.017 ppb	115.695 %	0.066 ppb
Concentration per Run 2	-0.421 ppb	0.075 ppb	59.386 ppb	1.168 ppb	105.468 %	0.002 ppb	0.026 ppb	113.076 %	0.121 ppb
Concentration per Run 3	-0.567 ppb	0.229 ppb	60.172 ppb	1.264 ppb	108.928 %	-0.004 ppb	0.062 ppb	127.649 %	0.073 ppb
Concentration RSD	102.3 %	64.7 %	1.0 %	8.1 %	2.3 %	339.8 %	68.1 %	6.5 %	34.6 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	45.593 ppb	114.932 %	118.869 %	0.034 ppb	0.140 ppb
Concentration per Run 1	45.431 ppb	108.981 %	113.412 %	0.017 ppb	0.150 ppb
Concentration per Run 2	45.934 ppb	114.391 %	116.810 %	0.043 ppb	0.138 ppb
Concentration per Run 3	45.413 ppb	121.424 %	126.385 %	0.043 ppb	0.132 ppb
Concentration RSD	0.6 %	5.4 %	5.7 %	44.4 %	6.4 %

Alpha ICPMSQ Data with SRD

6/27/2024 4:21:36 AM

Analysis index:	111	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	Day 2 0.2	Rack	2		
Analysis started at:	6/26/2024 8:32:20 PM	Vial	2		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	100.282 %	100.599 %	0.003 ppb	7,825.938 ppb	5,289.347 ppb	6.683 ppb	1,755.705 ppb	16,207.512 ppb	99.653 %
Concentration per Run 1	101.618 %	98.269 %	0.007 ppb	7,859.206 ppb	5,236.329 ppb	6.486 ppb	1,840.271 ppb	16,623.082 ppb	99.669 %
Concentration per Run 2	100.033 %	98.668 %	0.004 ppb	7,803.555 ppb	5,333.449 ppb	4.745 ppb	1,732.220 ppb	16,090.035 ppb	100.310 %
Concentration per Run 3	99.196 %	104.860 %	-0.003 ppb	7,815.053 ppb	5,298.262 ppb	8.819 ppb	1,694.625 ppb	15,909.419 ppb	98.981 %
Concentration RSD	1.2 %	3.7 %	190.9 %	0.4 %	0.9 %	30.6 %	4.3 %	2.3 %	0.7 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.269 ppb	5.319 ppb	3.200 ppb	63.041 ppb	0.165 ppb	5.101 ppb	0.416 ppb	0.692 ppb	110.234 %
Concentration per Run 1	0.255 ppb	5.597 ppb	3.856 ppb	70.935 ppb	0.184 ppb	5.845 ppb	0.459 ppb	0.802 ppb	100.583 %
Concentration per Run 2	0.176 ppb	5.375 ppb	2.842 ppb	60.543 ppb	0.178 ppb	5.238 ppb	0.357 ppb	0.705 ppb	108.654 %
Concentration per Run 3	0.377 ppb	4.986 ppb	2.901 ppb	57.644 ppb	0.135 ppb	4.221 ppb	0.433 ppb	0.570 ppb	121.463 %
Concentration RSD	37.6 %	5.8 %	17.8 %	11.1 %	16.0 %	16.1 %	12.7 %	16.9 %	9.6 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	-0.599 ppb	0.377 ppb	55.688 ppb	0.569 ppb	107.068 %	0.017 ppb	0.026 ppb	117.401 %	0.040 ppb
Concentration per Run 1	-0.586 ppb	0.813 ppb	56.051 ppb	0.435 ppb	103.887 %	0.050 ppb	0.065 ppb	110.104 %	0.046 ppb
Concentration per Run 2	-0.520 ppb	0.104 ppb	55.977 ppb	0.617 ppb	108.344 %	0.001 ppb	0.012 ppb	117.549 %	0.051 ppb
Concentration per Run 3	-0.691 ppb	0.214 ppb	55.037 ppb	0.655 ppb	108.975 %	0.000 ppb	0.003 ppb	124.551 %	0.024 ppb
Concentration RSD	14.4 %	101.1 %	1.0 %	20.7 %	2.6 %	164.3 %	127.1 %	6.2 %	35.3 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	22.657 ppb	117.386 %	122.361 %	0.039 ppb	0.056 ppb
Concentration per Run 1	22.140 ppb	112.639 %	117.038 %	0.053 ppb	0.087 ppb
Concentration per Run 2	22.287 ppb	117.990 %	124.656 %	0.031 ppb	0.036 ppb
Concentration per Run 3	23.544 ppb	121.530 %	125.388 %	0.034 ppb	0.045 ppb
Concentration RSD	3.4 %	3.8 %	3.8 %	30.7 %	48.9 %

Alpha ICPMSQ Data with SRD

6/27/2024 4:21:36 AM

Analysis index:	112	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	Day 2 3	Rack	2		
Analysis started at:	6/26/2024 8:36:59 PM	Vial	3		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	102.811 %	106.325 %	-0.004 ppb	-23.046 ppb	2.817 ppb	31.255 ppb	-8.715 ppb	18.547 ppb	101.359 %
Concentration per Run 1	104.610 %	108.056 %	-0.008 ppb	-22.255 ppb	1.532 ppb	28.147 ppb	-7.790 ppb	16.940 ppb	101.264 %
Concentration per Run 2	103.738 %	107.457 %	-0.003 ppb	-22.689 ppb	2.316 ppb	33.692 ppb	-5.540 ppb	9.012 ppb	102.477 %
Concentration per Run 3	100.083 %	103.462 %	-0.001 ppb	-24.195 ppb	4.605 ppb	31.925 ppb	-12.815 ppb	29.688 ppb	100.336 %
Concentration RSD	2.3 %	2.3 %	94.4 %	4.4 %	56.7 %	9.1 %	42.7 %	56.2 %	1.1 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.079 ppb	0.290 ppb	0.269 ppb	9.448 ppb	0.016 ppb	0.081 ppb	0.158 ppb	0.961 ppb	109.424 %
Concentration per Run 1	0.112 ppb	0.290 ppb	0.335 ppb	7.418 ppb	0.024 ppb	0.102 ppb	0.107 ppb	1.002 ppb	105.579 %
Concentration per Run 2	0.015 ppb	0.235 ppb	0.265 ppb	9.958 ppb	0.017 ppb	0.121 ppb	0.170 ppb	0.991 ppb	112.735 %
Concentration per Run 3	0.109 ppb	0.346 ppb	0.209 ppb	10.967 ppb	0.007 ppb	0.022 ppb	0.196 ppb	0.891 ppb	109.958 %
Concentration RSD	69.6 %	19.1 %	23.5 %	19.4 %	54.1 %	64.1 %	29.0 %	6.4 %	3.3 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	-0.480 ppb	0.102 ppb	0.029 ppb	0.055 ppb	110.602 %	-0.003 ppb	-0.002 ppb	118.037 %	0.003 ppb
Concentration per Run 1	-0.242 ppb	0.091 ppb	0.020 ppb	0.055 ppb	109.015 %	-0.004 ppb	-0.002 ppb	116.292 %	-0.001 ppb
Concentration per Run 2	-0.430 ppb	-0.034 ppb	0.019 ppb	0.020 ppb	113.479 %	-0.003 ppb	-0.002 ppb	120.023 %	0.017 ppb
Concentration per Run 3	-0.769 ppb	0.249 ppb	0.046 ppb	0.090 ppb	109.313 %	-0.004 ppb	-0.002 ppb	117.797 %	-0.006 ppb
Concentration RSD	55.6 %	139.4 %	53.9 %	64.4 %	2.3 %	15.9 %	0.0 %	1.6 %	373.0 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	0.084 ppb	114.855 %	120.780 %	0.006 ppb	0.005 ppb
Concentration per Run 1	0.036 ppb	111.858 %	119.744 %	-0.005 ppb	0.001 ppb
Concentration per Run 2	0.071 ppb	117.371 %	123.197 %	0.010 ppb	0.010 ppb
Concentration per Run 3	0.146 ppb	115.337 %	119.400 %	0.012 ppb	0.004 ppb
Concentration RSD	66.4 %	2.4 %	1.7 %	165.8 %	85.6 %

Alpha ICPMSQ Data with SRD

6/27/2024 4:21:36 AM

Analysis index:	113	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	Day 2 10	Rack	2		
Analysis started at:	6/26/2024 8:41:39 PM	Vial	4		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	99.722 %	108.722 %	-0.005 ppb	11,451.063 ppb	5,752.957 ppb	7.832 ppb	2,721.182 ppb	29,586.031 ppb	99.645 %
Concentration per Run 1	101.845 %	96.671 %	-0.004 ppb	12,167.350 ppb	6,113.001 ppb	8.089 ppb	2,902.148 ppb	30,223.337 ppb	101.265 %
Concentration per Run 2	99.579 %	116.844 %	-0.006 ppb	11,146.379 ppb	5,698.986 ppb	5.896 ppb	2,719.125 ppb	29,880.213 ppb	99.205 %
Concentration per Run 3	97.742 %	112.650 %	-0.005 ppb	11,039.460 ppb	5,446.885 ppb	9.512 ppb	2,542.271 ppb	28,654.544 ppb	98.465 %
Concentration RSD	2.1 %	9.8 %	23.0 %	5.4 %	5.8 %	23.3 %	6.6 %	2.8 %	1.5 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.360 ppb	17.573 ppb	6.248 ppb	195.300 ppb	0.423 ppb	16.505 ppb	1.045 ppb	0.391 ppb	109.941 %
Concentration per Run 1	0.453 ppb	17.642 ppb	6.895 ppb	196.608 ppb	0.437 ppb	16.582 ppb	1.016 ppb	0.351 ppb	109.971 %
Concentration per Run 2	0.333 ppb	16.740 ppb	5.964 ppb	191.150 ppb	0.420 ppb	15.919 ppb	1.039 ppb	0.381 ppb	115.846 %
Concentration per Run 3	0.293 ppb	18.338 ppb	5.887 ppb	198.144 ppb	0.411 ppb	17.014 ppb	1.082 ppb	0.440 ppb	104.007 %
Concentration RSD	23.1 %	4.6 %	9.0 %	1.9 %	3.1 %	3.3 %	3.2 %	11.6 %	5.4 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	-0.424 ppb	0.224 ppb	89.384 ppb	1.835 ppb	107.968 %	-0.003 ppb	0.003 ppb	118.387 %	-0.001 ppb
Concentration per Run 1	-0.503 ppb	0.219 ppb	84.869 ppb	1.725 ppb	106.173 %	-0.005 ppb	0.007 ppb	115.468 %	-0.006 ppb
Concentration per Run 2	-0.251 ppb	0.223 ppb	94.112 ppb	1.972 ppb	108.985 %	-0.004 ppb	0.003 ppb	123.471 %	-0.003 ppb
Concentration per Run 3	-0.517 ppb	0.229 ppb	89.171 ppb	1.808 ppb	108.744 %	-0.002 ppb	-0.002 ppb	116.222 %	0.005 ppb
Concentration RSD	35.4 %	2.3 %	5.2 %	6.9 %	1.4 %	47.4 %	161.2 %	3.7 %	419.5 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	21.220 ppb	115.129 %	122.910 %	0.006 ppb	0.018 ppb
Concentration per Run 1	21.383 ppb	109.968 %	117.723 %	-0.005 ppb	0.023 ppb
Concentration per Run 2	21.534 ppb	119.737 %	128.812 %	0.011 ppb	0.013 ppb
Concentration per Run 3	20.743 ppb	115.681 %	122.195 %	0.011 ppb	0.019 ppb
Concentration RSD	2.0 %	4.3 %	4.5 %	169.4 %	26.2 %

Alpha ICPMSQ Data with SRD

6/27/2024 4:21:36 AM

Analysis index:	114	User name	ALPHALAB\Metals-Instrument	Comment	Na rr
Analysis label:	I2434544-02 6020TL	Rack	2		
Analysis started at:	6/26/2024 8:46:18 PM	Vial	59		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	104.261 %	110.586 %	0.001 ppb	47.556 ppb	6.738 ppb	4.127 ppb	1.670 ppb	38.920 ppb	101.716 %
Concentration per Run 1	105.678 %	114.647 %	0.003 ppb	34.444 ppb	8.136 ppb	3.691 ppb	0.593 ppb	35.156 ppb	101.509 %
Concentration per Run 2	104.310 %	109.055 %	0.000 ppb	54.383 ppb	5.076 ppb	5.257 ppb	1.290 ppb	33.842 ppb	102.862 %
Concentration per Run 3	102.795 %	108.056 %	0.000 ppb	53.839 ppb	7.002 ppb	3.433 ppb	3.127 ppb	47.763 ppb	100.777 %
Concentration RSD	1.4 %	3.2 %	239.3 %	23.9 %	23.0 %	23.9 %	78.4 %	19.7 %	1.0 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	-0.004 ppb	-0.035 ppb	-0.042 ppb	2.164 ppb	0.014 ppb	-0.044 ppb	0.474 ppb	0.892 ppb	110.297 %
Concentration per Run 1	-0.029 ppb	0.032 ppb	-0.098 ppb	1.462 ppb	0.004 ppb	-0.070 ppb	0.414 ppb	0.786 ppb	109.107 %
Concentration per Run 2	0.013 ppb	-0.091 ppb	-0.101 ppb	3.351 ppb	0.026 ppb	0.000 ppb	0.505 ppb	0.954 ppb	116.675 %
Concentration per Run 3	0.005 ppb	-0.048 ppb	0.074 ppb	1.678 ppb	0.013 ppb	-0.063 ppb	0.503 ppb	0.935 ppb	105.110 %
Concentration RSD	590.8 %	176.9 %	241.5 %	47.8 %	79.7 %	86.9 %	10.9 %	10.3 %	5.3 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	-0.593 ppb	0.182 ppb	0.356 ppb	0.014 ppb	110.550 %	-0.003 ppb	-0.002 ppb	118.456 %	-0.070 ppb
Concentration per Run 1	-0.607 ppb	0.097 ppb	0.333 ppb	0.029 ppb	104.722 %	0.000 ppb	-0.002 ppb	115.791 %	-0.075 ppb
Concentration per Run 2	-0.646 ppb	0.090 ppb	0.352 ppb	0.018 ppb	114.315 %	-0.005 ppb	-0.002 ppb	124.610 %	-0.059 ppb
Concentration per Run 3	-0.527 ppb	0.360 ppb	0.382 ppb	-0.005 ppb	112.613 %	-0.004 ppb	-0.002 ppb	114.966 %	-0.075 ppb
Concentration RSD	10.3 %	84.7 %	6.9 %	125.1 %	4.6 %	76.2 %	0.0 %	4.5 %	13.8 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	0.317 ppb	112.956 %	118.574 %	-0.001 ppb	0.040 ppb
Concentration per Run 1	0.346 ppb	107.173 %	112.948 %	-0.011 ppb	0.038 ppb
Concentration per Run 2	0.339 ppb	119.332 %	128.357 %	-0.001 ppb	0.037 ppb
Concentration per Run 3	0.266 ppb	112.363 %	114.418 %	0.010 ppb	0.046 ppb
Concentration RSD	14.0 %	5.4 %	7.2 %	1,351.9 %	11.9 %

Alpha ICPMSQ Data with SRD

6/27/2024 4:21:36 AM

Analysis index:	115	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	L2435413-09 6020TL	Rack	2		
Analysis started at:	6/26/2024 8:50:59 PM	Vial	55		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	95.525 %	99.534 %	0.285 ppb	165,539.366 ppb	62,000.305 ppb	3,232.083 ppb	10,923.362 ppb	157,448.505 ppb	110.435 %
Concentration per Run 1	97.945 %	96.072 %	0.292 ppb	170,926.613 ppb	63,268.141 ppb	3,232.918 ppb	10,883.714 ppb	159,886.667 ppb	112.034 %
Concentration per Run 2	95.512 %	106.458 %	0.249 ppb	158,290.289 ppb	59,647.233 ppb	3,231.199 ppb	11,143.494 ppb	155,738.673 ppb	110.906 %
Concentration per Run 3	93.119 %	96.072 %	0.315 ppb	167,401.196 ppb	63,085.541 ppb	3,232.132 ppb	10,742.878 ppb	156,720.176 ppb	108.367 %
Concentration RSD	2.5 %	6.0 %	11.7 %	3.9 %	3.3 %	0.0 %	1.9 %	1.4 %	1.7 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	10.974 ppb	8.291 ppb	11,679.362 ppb	49,128.235 ppb	79.266 ppb	32.424 ppb	5.462 ppb	14,581.266 ppb	106.048 %
Concentration per Run 1	10.921 ppb	8.682 ppb	11,919.753 ppb	50,165.202 ppb	81.131 ppb	33.474 ppb	5.511 ppb	14,903.512 ppb	99.563 %
Concentration per Run 2	10.634 ppb	7.824 ppb	11,576.972 ppb	47,171.208 ppb	76.412 ppb	30.721 ppb	5.260 ppb	14,086.574 ppb	113.837 %
Concentration per Run 3	11.366 ppb	8.368 ppb	11,541.361 ppb	50,048.293 ppb	80.254 ppb	33.078 ppb	5.615 ppb	14,753.713 ppb	104.743 %
Concentration RSD	3.4 %	5.2 %	1.8 %	3.5 %	3.2 %	4.6 %	3.3 %	3.0 %	6.8 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	495.011 ppb	8.233 ppb	1,532.625 ppb	1.220 ppb	99.862 %	0.011 ppb	1.877 ppb	113.150 %	0.306 ppb
Concentration per Run 1	507.558 ppb	8.241 ppb	1,517.471 ppb	1.078 ppb	98.278 %	0.011 ppb	1.783 ppb	109.343 %	0.295 ppb
Concentration per Run 2	480.502 ppb	6.943 ppb	1,564.629 ppb	1.389 ppb	101.643 %	0.012 ppb	2.048 ppb	119.096 %	0.340 ppb
Concentration per Run 3	496.973 ppb	9.516 ppb	1,515.774 ppb	1.192 ppb	99.666 %	0.010 ppb	1.800 ppb	111.011 %	0.282 ppb
Concentration RSD	2.8 %	15.6 %	1.8 %	12.9 %	1.7 %	11.8 %	7.9 %	4.6 %	10.0 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	665.437 ppb	117.843 %	121.464 %	15.434 ppb	6.388 ppb
Concentration per Run 1	663.842 ppb	113.892 %	118.173 %	15.524 ppb	6.482 ppb
Concentration per Run 2	683.660 ppb	119.030 %	124.443 %	15.249 ppb	6.347 ppb
Concentration per Run 3	648.809 ppb	120.605 %	121.776 %	15.528 ppb	6.334 ppb
Concentration RSD	2.6 %	3.0 %	2.6 %	1.0 %	1.3 %

Alpha ICPMSQ Data with SRD

6/27/2024 4:21:36 AM

Analysis index:	116	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	L2435413-10 6020TL	Rack	2		
Analysis started at:	6/26/2024 8:55:40 PM	Vial	56		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	98.704 %	104.927 %	0.072 ppb	11,956.027 ppb	9,368.681 ppb	747.606 ppb	9,074.007 ppb	51,157.241 ppb	102.657 %
Concentration per Run 1	100.145 %	109.654 %	0.085 ppb	11,868.597 ppb	9,448.098 ppb	776.868 ppb	9,326.059 ppb	51,851.626 ppb	103.058 %
Concentration per Run 2	98.443 %	105.459 %	0.062 ppb	11,859.931 ppb	9,087.243 ppb	719.749 ppb	8,939.900 ppb	49,464.100 ppb	101.907 %
Concentration per Run 3	97.524 %	99.667 %	0.069 ppb	12,139.553 ppb	9,570.702 ppb	746.200 ppb	8,956.062 ppb	52,155.995 ppb	103.006 %
Concentration RSD	1.3 %	4.8 %	16.5 %	1.3 %	2.7 %	3.8 %	2.4 %	2.9 %	0.6 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	2.164 ppb	20.142 ppb	989.868 ppb	2,726.733 ppb	27.350 ppb	247.203 ppb	11.115 ppb	22.915 ppb	112.808 %
Concentration per Run 1	2.228 ppb	19.562 ppb	991.493 ppb	2,739.853 ppb	27.518 ppb	247.294 ppb	10.949 ppb	23.236 ppb	115.053 %
Concentration per Run 2	2.086 ppb	20.253 ppb	979.037 ppb	2,678.862 ppb	27.064 ppb	245.616 ppb	10.910 ppb	23.024 ppb	111.395 %
Concentration per Run 3	2.178 ppb	20.610 ppb	999.073 ppb	2,761.483 ppb	27.469 ppb	248.699 ppb	11.486 ppb	22.485 ppb	111.976 %
Concentration RSD	3.3 %	2.6 %	1.0 %	1.6 %	0.9 %	0.6 %	2.9 %	1.7 %	1.7 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.447 ppb	0.763 ppb	550.480 ppb	0.128 ppb	106.504 %	0.062 ppb	0.058 ppb	118.361 %	0.063 ppb
Concentration per Run 1	0.527 ppb	0.941 ppb	563.804 ppb	0.110 ppb	107.089 %	0.047 ppb	0.064 ppb	122.872 %	0.039 ppb
Concentration per Run 2	0.623 ppb	0.232 ppb	551.063 ppb	0.135 ppb	104.779 %	0.075 ppb	0.022 ppb	113.880 %	0.073 ppb
Concentration per Run 3	0.190 ppb	1.115 ppb	536.573 ppb	0.139 ppb	107.644 %	0.065 ppb	0.088 ppb	118.331 %	0.076 ppb
Concentration RSD	50.8 %	61.3 %	2.5 %	12.4 %	1.4 %	23.1 %	58.2 %	3.8 %	32.6 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	79.996 ppb	119.567 %	125.060 %	0.054 ppb	2.765 ppb
Concentration per Run 1	81.290 ppb	120.652 %	128.927 %	0.046 ppb	2.702 ppb
Concentration per Run 2	77.944 ppb	118.105 %	125.197 %	0.060 ppb	2.763 ppb
Concentration per Run 3	80.755 ppb	119.944 %	121.054 %	0.056 ppb	2.830 ppb
Concentration RSD	2.2 %	1.1 %	3.1 %	13.5 %	2.3 %

Alpha ICPMSQ Data with SRD

6/27/2024 4:21:36 AM

Analysis index:	117	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	L2435413-11 6020TL	Rack	2		
Analysis started at:	6/26/2024 9:00:20 PM	Vial	57		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	92.198 %	99.933 %	0.015 ppb	166,409.856 ppb	31,457.518 ppb	18.962 ppb	8,388.463 ppb	99,669.492 ppb	102.867 %
Concentration per Run 1	94.224 %	105.659 %	0.013 ppb	170,985.534 ppb	32,402.573 ppb	20.341 ppb	8,965.426 ppb	103,757.801 ppb	102.771 %
Concentration per Run 2	91.554 %	95.672 %	0.014 ppb	167,962.007 ppb	31,414.946 ppb	17.426 ppb	8,195.937 ppb	98,938.205 ppb	102.206 %
Concentration per Run 3	90.817 %	98.469 %	0.016 ppb	160,282.027 ppb	30,555.036 ppb	19.119 ppb	8,004.027 ppb	96,312.470 ppb	103.622 %
Concentration RSD	1.9 %	5.2 %	8.8 %	3.3 %	2.9 %	7.7 %	6.1 %	3.8 %	0.7 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.493 ppb	35.412 ppb	5,873.309 ppb	21,757.113 ppb	27.880 ppb	52.644 ppb	1.245 ppb	9.681 ppb	105.875 %
Concentration per Run 1	0.501 ppb	35.042 ppb	5,711.410 ppb	21,645.415 ppb	27.654 ppb	52.394 ppb	1.206 ppb	10.016 ppb	109.133 %
Concentration per Run 2	0.606 ppb	36.203 ppb	6,077.535 ppb	22,231.295 ppb	28.500 ppb	53.202 ppb	1.266 ppb	9.921 ppb	103.656 %
Concentration per Run 3	0.373 ppb	34.990 ppb	5,830.981 ppb	21,394.628 ppb	27.484 ppb	52.337 ppb	1.263 ppb	9.107 ppb	104.836 %
Concentration RSD	23.7 %	1.9 %	3.2 %	2.0 %	2.0 %	0.9 %	2.7 %	5.2 %	2.7 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	22.829 ppb	0.234 ppb	662.457 ppb	2.252 ppb	100.918 %	-0.002 ppb	0.025 ppb	112.335 %	0.004 ppb
Concentration per Run 1	22.779 ppb	0.213 ppb	696.704 ppb	2.197 ppb	102.199 %	-0.004 ppb	0.026 ppb	118.603 %	-0.005 ppb
Concentration per Run 2	22.924 ppb	0.379 ppb	660.140 ppb	2.288 ppb	100.624 %	-0.002 ppb	0.027 ppb	110.448 %	0.030 ppb
Concentration per Run 3	22.786 ppb	0.109 ppb	630.526 ppb	2.272 ppb	99.931 %	0.000 ppb	0.023 ppb	107.956 %	-0.013 ppb
Concentration RSD	0.4 %	58.3 %	5.0 %	2.2 %	1.2 %	86.2 %	8.8 %	5.0 %	546.7 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	204.296 ppb	116.074 %	120.430 %	0.017 ppb	0.088 ppb
Concentration per Run 1	209.621 ppb	120.336 %	124.474 %	0.004 ppb	0.089 ppb
Concentration per Run 2	202.699 ppb	115.019 %	119.228 %	0.025 ppb	0.088 ppb
Concentration per Run 3	200.568 ppb	112.868 %	117.588 %	0.022 ppb	0.089 ppb
Concentration RSD	2.3 %	3.3 %	3.0 %	69.2 %	0.6 %

Alpha ICPMSQ Data with SRD

6/27/2024 4:21:36 AM

Analysis index:	118	User name	ALPHALAB\Metals-Instrument	Comment	Na rr
Analysis label:	I2434544-01 6020TL	Rack	2		
Analysis started at:	6/26/2024 9:05:01 PM	Vial	58		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	98.041 %	101.531 %	0.063 ppb	17,871.451 ppb	9,969.259 ppb	20.222 ppb	3,092.386 ppb	20,176.990 ppb	100.312 %
Concentration per Run 1	99.386 %	109.654 %	0.064 ppb	17,705.591 ppb	9,896.344 ppb	18.245 ppb	3,222.245 ppb	20,686.907 ppb	101.118 %
Concentration per Run 2	98.235 %	102.863 %	0.060 ppb	17,931.843 ppb	9,955.782 ppb	21.678 ppb	3,035.961 ppb	19,731.875 ppb	99.282 %
Concentration per Run 3	96.503 %	92.077 %	0.066 ppb	17,976.920 ppb	10,055.652 ppb	20.743 ppb	3,018.952 ppb	20,112.188 ppb	100.535 %
Concentration RSD	1.5 %	8.7 %	5.1 %	0.8 %	0.8 %	8.8 %	3.6 %	2.4 %	0.9 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	1.683 ppb	1.562 ppb	120.092 ppb	4,117.777 ppb	32.941 ppb	20.973 ppb	1.266 ppb	25.925 ppb	104.687 %
Concentration per Run 1	1.505 ppb	1.504 ppb	119.223 ppb	4,055.312 ppb	31.505 ppb	20.337 ppb	1.225 ppb	26.061 ppb	109.349 %
Concentration per Run 2	1.758 ppb	1.566 ppb	119.277 ppb	4,154.070 ppb	33.208 ppb	20.543 ppb	1.242 ppb	25.767 ppb	104.768 %
Concentration per Run 3	1.787 ppb	1.614 ppb	121.775 ppb	4,143.950 ppb	34.111 ppb	22.040 ppb	1.330 ppb	25.947 ppb	99.943 %
Concentration RSD	9.2 %	3.5 %	1.2 %	1.3 %	4.0 %	4.4 %	4.5 %	0.6 %	4.5 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	16.664 ppb	0.458 ppb	169.731 ppb	0.688 ppb	105.565 %	-0.002 ppb	0.341 ppb	114.952 %	0.029 ppb
Concentration per Run 1	16.650 ppb	0.342 ppb	178.578 ppb	0.673 ppb	108.329 %	-0.001 ppb	0.363 ppb	123.426 %	0.016 ppb
Concentration per Run 2	16.466 ppb	0.374 ppb	168.708 ppb	0.746 ppb	104.021 %	-0.006 ppb	0.287 ppb	113.692 %	0.018 ppb
Concentration per Run 3	16.877 ppb	0.657 ppb	161.906 ppb	0.645 ppb	104.345 %	0.000 ppb	0.374 ppb	107.739 %	0.053 ppb
Concentration RSD	1.2 %	37.9 %	4.9 %	7.6 %	2.3 %	136.9 %	13.9 %	6.9 %	71.0 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	57.918 ppb	116.772 %	121.963 %	0.022 ppb	0.224 ppb
Concentration per Run 1	58.603 ppb	120.064 %	129.035 %	0.008 ppb	0.222 ppb
Concentration per Run 2	55.913 ppb	117.350 %	122.563 %	0.029 ppb	0.224 ppb
Concentration per Run 3	59.236 ppb	112.904 %	114.292 %	0.029 ppb	0.227 ppb
Concentration RSD	3.0 %	3.1 %	6.1 %	55.2 %	1.0 %

Alpha ICPMSQ Data with SRD

6/27/2024 4:21:36 AM

Analysis index:	119	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	CCV	Rack	0		
Analysis started at:	6/26/2024 9:09:42 PM	Vial	9		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	96.017 %	105.659 %	59.385 ppb	5,499.739 ppb	5,479.936 ppb	53.238 ppb	5,526.637 ppb	5,910.307 ppb	103.048 %
Concentration per Run 1	97.128 %	105.260 %	59.260 ppb	5,789.376 ppb	5,802.614 ppb	57.853 ppb	5,886.815 ppb	6,116.456 ppb	103.013 %
Concentration per Run 2	96.434 %	103.462 %	59.495 ppb	5,619.631 ppb	5,601.521 ppb	53.124 ppb	5,508.367 ppb	5,916.247 ppb	103.133 %
Concentration per Run 3	94.487 %	108.256 %	59.400 ppb	5,090.208 ppb	5,035.674 ppb	48.737 ppb	5,184.729 ppb	5,698.219 ppb	102.998 %
Recovery Percentage 1			98.975 %	91.662 %	91.332 %	88.730 %	92.111 %	98.505 %	
Concentration RSD	1.4 %	2.3 %	0.2 %	6.6 %	7.3 %	8.6 %	6.4 %	3.5 %	0.1 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	58.847 ppb	59.810 ppb	56.342 ppb	5,661.777 ppb	56.999 ppb	55.042 ppb	56.999 ppb	60.088 ppb	108.481 %
Concentration per Run 1	61.266 ppb	58.295 ppb	56.200 ppb	5,608.345 ppb	56.554 ppb	54.458 ppb	54.552 ppb	58.875 ppb	115.833 %
Concentration per Run 2	59.173 ppb	60.365 ppb	57.975 ppb	5,798.051 ppb	58.675 ppb	56.428 ppb	59.037 ppb	62.229 ppb	106.139 %
Concentration per Run 3	56.102 ppb	60.768 ppb	54.849 ppb	5,578.936 ppb	55.767 ppb	54.239 ppb	57.409 ppb	59.160 ppb	103.472 %
Recovery Percentage 1	98.078 %	99.683 %	93.903 %	94.363 %	94.998 %	91.736 %	94.999 %	100.147 %	
Concentration RSD	4.4 %	2.2 %	2.8 %	2.1 %	2.6 %	2.2 %	4.0 %	3.1 %	6.0 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	58.753 ppb	62.231 ppb	58.226 ppb	59.336 ppb	106.490 %	58.941 ppb	58.218 ppb	115.462 %	55.955 ppb
Concentration per Run 1	59.562 ppb	63.132 ppb	60.486 ppb	58.085 ppb	107.484 %	58.733 ppb	59.184 ppb	121.206 %	57.032 ppb
Concentration per Run 2	58.911 ppb	62.734 ppb	59.693 ppb	58.249 ppb	106.088 %	59.401 ppb	59.032 ppb	113.754 %	56.221 ppb
Concentration per Run 3	57.788 ppb	60.828 ppb	54.499 ppb	61.673 ppb	105.897 %	58.689 ppb	56.438 ppb	111.427 %	54.611 ppb
Recovery Percentage 1	97.922 %	103.718 %	97.044 %	98.893 %		98.235 %	97.029 %		93.258 %
Concentration RSD	1.5 %	2.0 %	5.6 %	3.4 %	0.8 %	0.7 %	2.7 %	4.4 %	2.2 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	56.056 ppb	115.584 %	118.030 %	59.195 ppb	60.726 ppb
Concentration per Run 1	58.852 ppb	115.437 %	121.246 %	58.239 ppb	59.702 ppb
Concentration per Run 2	56.888 ppb	117.487 %	119.469 %	58.402 ppb	59.580 ppb
Concentration per Run 3	52.428 ppb	113.828 %	113.373 %	60.943 ppb	62.895 ppb
Recovery Percentage 1	93.426 %			98.658 %	101.210 %
Concentration RSD	5.9 %	1.6 %	3.5 %	2.6 %	3.1 %

Alpha ICPMSQ Data with SRD

6/27/2024 4:21:36 AM

Analysis index:	120	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	CCB	Rack	0		
Analysis started at:	6/26/2024 9:14:25 PM	Vial	10		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	93.953 %	100.999 %	0.003 ppb	2.865 ppb	-0.510 ppb	-0.961 ppb	-22.576 ppb	3.984 ppb	92.693 %
Concentration per Run 1	95.818 %	99.068 %	0.008 ppb	13.290 ppb	-0.029 ppb	-0.595 ppb	-17.400 ppb	2.048 ppb	92.879 %
Concentration per Run 2	94.256 %	93.475 %	-0.001 ppb	10.903 ppb	-1.347 ppb	-0.864 ppb	-19.821 ppb	12.166 ppb	94.330 %
Concentration per Run 3	91.786 %	110.453 %	0.001 ppb	-15.599 ppb	-0.156 ppb	-1.426 ppb	-30.508 ppb	-2.261 ppb	90.871 %
Recovery Percentage 1			0.549 %	2.865 %	-0.729 %	-9.614 %	-22.576 %	3.984 %	
Concentration RSD	2.2 %	8.6 %	167.7 %	559.7 %	142.4 %	44.1 %	30.9 %	185.9 %	1.9 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	-0.041 ppb	-0.041 ppb	0.222 ppb	12.790 ppb	0.011 ppb	-0.072 ppb	-0.003 ppb	0.289 ppb	99.499 %
Concentration per Run 1	-0.087 ppb	-0.037 ppb	0.109 ppb	9.467 ppb	0.005 ppb	-0.106 ppb	0.012 ppb	0.326 ppb	103.657 %
Concentration per Run 2	0.051 ppb	-0.012 ppb	0.084 ppb	17.864 ppb	0.024 ppb	-0.023 ppb	-0.013 ppb	0.403 ppb	94.176 %
Concentration per Run 3	-0.087 ppb	-0.073 ppb	0.472 ppb	11.038 ppb	0.005 ppb	-0.087 ppb	-0.009 ppb	0.138 ppb	100.664 %
Recovery Percentage 1	-0.821 %	-4.083 %	22.163 %	25.579 %	2.237 %	-3.617 %	-0.305 %	5.779 %	
Concentration RSD	195.1 %	74.4 %	98.0 %	34.9 %	102.0 %	60.2 %	439.5 %	47.3 %	4.9 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	-0.486 ppb	0.252 ppb	-0.002 ppb	0.665 ppb	105.019 %	0.004 ppb	0.003 ppb	110.588 %	0.655 ppb
Concentration per Run 1	-0.403 ppb	0.377 ppb	0.003 ppb	0.665 ppb	104.646 %	0.004 ppb	-0.002 ppb	110.979 %	0.788 ppb
Concentration per Run 2	-0.229 ppb	0.408 ppb	-0.013 ppb	0.701 ppb	107.213 %	0.004 ppb	-0.002 ppb	115.494 %	0.565 ppb
Concentration per Run 3	-0.826 ppb	-0.029 ppb	0.006 ppb	0.629 ppb	103.199 %	0.005 ppb	0.013 ppb	105.291 %	0.611 ppb
Recovery Percentage 1	-97.203 %	5.040 %	-0.016 %	33.258 %		1.068 %	1.629 %		16.366 %
Concentration RSD	63.2 %	96.8 %	625.8 %	5.4 %	1.9 %	20.5 %	261.1 %	4.6 %	18.0 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	0.013 ppb	112.422 %	114.101 %	0.274 ppb	0.014 ppb
Concentration per Run 1	0.000 ppb	112.198 %	112.085 %	0.200 ppb	0.020 ppb
Concentration per Run 2	0.000 ppb	115.320 %	117.911 %	0.329 ppb	0.007 ppb
Concentration per Run 3	0.039 ppb	109.748 %	112.308 %	0.291 ppb	0.014 ppb
Recovery Percentage 1	2.581 %			27.355 %	1.365 %
Concentration RSD	173.2 %	2.5 %	2.9 %	24.3 %	50.1 %

Alpha ICPMSQ Data with SRD

6/27/2024 4:21:36 AM

Analysis index:	121	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	CCV	Rack	0		
Analysis started at:	6/26/2024 9:19:09 PM	Vial	9		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	94.922 %	98.269 %	59.760 ppb	5,863.456 ppb	5,896.601 ppb	57.616 ppb	5,983.341 ppb	6,073.011 ppb	101.828 %
Concentration per Run 1	97.139 %	92.676 %	59.631 ppb	6,225.275 ppb	6,201.197 ppb	61.325 ppb	6,335.513 ppb	6,405.530 ppb	103.034 %
Concentration per Run 2	95.152 %	103.063 %	59.945 ppb	5,633.655 ppb	5,572.876 ppb	60.076 ppb	5,714.054 ppb	5,961.567 ppb	101.839 %
Concentration per Run 3	92.474 %	99.068 %	59.702 ppb	5,731.438 ppb	5,915.730 ppb	51.448 ppb	5,900.456 ppb	5,851.937 ppb	100.611 %
Recovery Percentage 1			99.599 %	97.724 %	98.277 %	96.027 %	99.722 %	101.217 %	
Concentration RSD	2.5 %	5.3 %	0.3 %	5.4 %	5.3 %	9.3 %	5.3 %	4.8 %	1.2 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	62.934 ppb	63.804 ppb	59.964 ppb	6,074.338 ppb	60.893 ppb	58.173 ppb	60.913 ppb	62.772 ppb	102.844 %
Concentration per Run 1	63.956 ppb	65.094 ppb	62.299 ppb	6,262.201 ppb	62.541 ppb	58.512 ppb	62.735 ppb	62.737 ppb	101.048 %
Concentration per Run 2	60.874 ppb	63.282 ppb	60.352 ppb	6,043.170 ppb	60.373 ppb	58.557 ppb	61.459 ppb	63.022 ppb	102.349 %
Concentration per Run 3	63.971 ppb	63.037 ppb	57.240 ppb	5,917.645 ppb	59.764 ppb	57.451 ppb	58.544 ppb	62.558 ppb	105.135 %
Recovery Percentage 1	104.890 %	106.341 %	99.939 %	101.239 %	101.488 %	96.955 %	101.521 %	104.620 %	
Concentration RSD	2.8 %	1.8 %	4.3 %	2.9 %	2.4 %	1.1 %	3.5 %	0.4 %	2.0 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	61.774 ppb	61.620 ppb	59.751 ppb	60.929 ppb	105.939 %	58.943 ppb	58.921 ppb	114.062 %	58.629 ppb
Concentration per Run 1	64.101 ppb	59.152 ppb	59.290 ppb	60.413 ppb	105.182 %	59.346 ppb	60.199 ppb	110.332 %	60.696 ppb
Concentration per Run 2	60.630 ppb	64.752 ppb	59.791 ppb	60.225 ppb	107.008 %	58.395 ppb	58.381 ppb	117.557 %	55.657 ppb
Concentration per Run 3	60.592 ppb	60.957 ppb	60.171 ppb	62.148 ppb	105.626 %	59.086 ppb	58.183 ppb	114.296 %	59.533 ppb
Recovery Percentage 1	102.957 %	102.701 %	99.584 %	101.548 %		98.238 %	98.202 %		97.715 %
Concentration RSD	3.3 %	4.6 %	0.7 %	1.7 %	0.9 %	0.8 %	1.9 %	3.2 %	4.5 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	52.393 ppb	115.120 %	118.868 %	59.901 ppb	60.097 ppb
Concentration per Run 1	54.224 ppb	111.392 %	112.907 %	62.538 ppb	61.993 ppb
Concentration per Run 2	51.245 ppb	117.431 %	122.779 %	57.568 ppb	58.420 ppb
Concentration per Run 3	51.710 ppb	116.536 %	120.918 %	59.598 ppb	59.877 ppb
Recovery Percentage 1	87.322 %			99.836 %	100.161 %
Concentration RSD	3.1 %	2.8 %	4.4 %	4.2 %	3.0 %

Alpha ICPMSQ Data with SRD

6/27/2024 4:21:36 AM

Analysis index:	122	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	CCB	Rack	0		
Analysis started at:	6/26/2024 9:23:52 PM	Vial	10		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	92.917 %	102.863 %	0.008 ppb	-17.723 ppb	-0.357 ppb	-0.870 ppb	-27.037 ppb	14.665 ppb	92.037 %
Concentration per Run 1	93.998 %	98.469 %	0.010 ppb	-11.320 ppb	-0.020 ppb	-1.220 ppb	-20.607 ppb	26.546 ppb	92.618 %
Concentration per Run 2	92.890 %	100.067 %	0.005 ppb	-9.626 ppb	-0.465 ppb	-0.185 ppb	-17.955 ppb	13.715 ppb	91.703 %
Concentration per Run 3	91.863 %	110.053 %	0.010 ppb	-32.223 ppb	-0.587 ppb	-1.206 ppb	-42.548 ppb	3.735 ppb	91.791 %
Recovery Percentage 1			1.676 %	-17.723 %	-0.510 %	-8.704 %	-27.037 %	14.665 %	
Concentration RSD	1.1 %	6.1 %	36.8 %	71.0 %	83.6 %	68.2 %	49.9 %	78.0 %	0.5 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	-0.060 ppb	-0.028 ppb	0.026 ppb	9.171 ppb	0.003 ppb	-0.067 ppb	-0.008 ppb	0.136 ppb	102.182 %
Concentration per Run 1	-0.055 ppb	-0.047 ppb	-0.038 ppb	6.520 ppb	-0.001 ppb	-0.068 ppb	-0.023 ppb	0.095 ppb	103.362 %
Concentration per Run 2	-0.054 ppb	-0.047 ppb	0.046 ppb	11.124 ppb	0.002 ppb	-0.051 ppb	0.008 ppb	0.138 ppb	97.102 %
Concentration per Run 3	-0.072 ppb	0.009 ppb	0.071 ppb	9.867 ppb	0.007 ppb	-0.083 ppb	-0.010 ppb	0.175 ppb	106.082 %
Recovery Percentage 1	-1.209 %	-2.831 %	2.625 %	18.342 %	0.532 %	-3.367 %	-0.842 %	2.718 %	
Concentration RSD	16.7 %	114.2 %	218.5 %	25.9 %	150.7 %	24.4 %	188.4 %	29.4 %	4.5 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	-0.622 ppb	0.199 ppb	-0.010 ppb	0.740 ppb	105.720 %	0.004 ppb	0.004 ppb	114.880 %	0.732 ppb
Concentration per Run 1	-0.507 ppb	0.248 ppb	-0.011 ppb	0.952 ppb	103.508 %	0.005 ppb	-0.002 ppb	113.879 %	0.791 ppb
Concentration per Run 2	-0.634 ppb	0.107 ppb	0.010 ppb	0.694 ppb	105.647 %	0.005 ppb	0.012 ppb	113.681 %	0.812 ppb
Concentration per Run 3	-0.726 ppb	0.241 ppb	-0.029 ppb	0.575 ppb	108.005 %	0.004 ppb	0.003 ppb	117.081 %	0.594 ppb
Recovery Percentage 1	-124.465 %	3.979 %	-0.100 %	37.015 %		1.111 %	2.238 %		18.299 %
Concentration RSD	17.7 %	40.1 %	197.7 %	26.0 %	2.1 %	17.5 %	158.3 %	1.7 %	16.4 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)
Concentration average	0.037 ppb	112.405 %	115.072 %	0.313 ppb	0.013 ppb
Concentration per Run 1	0.000 ppb	110.281 %	112.569 %	0.209 ppb	0.020 ppb
Concentration per Run 2	0.037 ppb	111.638 %	117.189 %	0.380 ppb	0.013 ppb
Concentration per Run 3	0.075 ppb	115.297 %	115.459 %	0.350 ppb	0.007 ppb
Recovery Percentage 1	7.493 %			31.326 %	1.348 %
Concentration RSD	100.5 %	2.3 %	2.0 %	29.1 %	46.7 %

Interference Check Solutions
(ICP-MS)

Solution Component	Solution A Concentration (ug/L)	Solution AB Concentration (ug/L)
Al	20,000	20,000
Ca	60,000	60,000
Fe	50,000	50,000
Mg	20,000	20,000
Na	50,000	50,000
K	20,000	20,000
Mo	400	400
As	0.0	20
Cd	0.0	20
Cr	0.0	40
Co	0.0	40
Cu	0.0	40
Mn	0.0	40
Ni	0.0	40
Se	0.0	20
Ag	0.0	10
V	0.0	40
Zn	0.0	20

LCS & MS Concentrations
(ICP-MS)

Element	Liquid Concentration (mg/L)
Aluminum	2.00
Antimony	0.5
Arsenic	0.12
Barium	2.00
Beryllium	0.05
Cadmium	0.051
Calcium	10.0
Chromium	0.20
Cobalt	0.50
Copper	0.25
Iron	1.00
Lead	0.51
Magnesium	10.0
Manganese	0.50
Molybdenum	1.00
Nickel	0.50
Potassium	10.0
Selenium	0.12
Silver	0.05
Sodium	10.0
Thallium	0.12
Vanadium	0.50
Zinc	0.50

▪ Certificate of Analysis ▪

Product: Metals in Soil
Catalog Number: 540
Lot No. D102-540
Certificate Issue Date: June 22, 2018
Expiration Date: January 31, 2022
Revision Number: Original

Product use instructions are included as part of the certification packet and are paginated separately from this Certificate of Analysis. Please reference the product use instructions for catalog #540 revision 030512.

CERTIFICATION

Parameter	Certified Value[1]	Reference Value	Uncertainty[2]	QC Performance Acceptance Limits[3]	PT Performance Acceptance Limits[4]
	mg/kg	mg/kg	%	mg/kg	mg/kg
Aluminum	10100	8160	6.36	3960 - 12400	4080 - 12200
Antimony	120	60.9	9.42	0.822 - 121	12.0 - 166
Arsenic	144	135	5.08	112 - 158	94.6 - 176
Barium	469	443	6.77	366 - 521	332 - 554
Beryllium	207	197	5.86	164 - 229	148 - 246
Boron	213	174	12.6	127 - 221	105 - 244
Cadmium	224	204	6.65	169 - 240	153 - 256
Calcium	5190	4830	9.12	3950 - 5700	3510 - 6150
Chromium	138	132	8.56	109 - 155	92.2 - 171
Cobalt	182	179	7.93	151 - 207	134 - 224
Copper	191	184	6.72	155 - 213	138 - 230
Iron	15000	14400	10.7	8770 - 20000	5120 - 23600
Lead	225	216	7.72	178 - 254	159 - 274
Magnesium	2570	2340	6.13	1780 - 2900	1460 - 3230
Manganese	331	323	6.71	266 - 380	242 - 404
Mercury	16.8	13.2	16.0	8.64 - 17.7	7.89 - 18.5
Molybdenum	193	175	2.39	141 - 209	125 - 226
Nickel	163	152	5.95	126 - 178	106 - 197
Potassium	2420	2050	6.31	1440 - 2660	1210 - 2890
Selenium	81.9	74.9	4.13	59.3 - 90.5	47.0 - 103
Silver	57.6	53.9	9.00	43.0 - 64.8	37.8 - 70.0
Sodium	161	149	12.1	111 - 188	57.7 - 241
Strontium	100	96.2	4.04	78.1 - 114	69.0 - 123
Thallium	253	232	3.54	188 - 276	168 - 296

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Parameter	Certified Value[1]	Reference Value	Uncertainty[2]	QC Performance Acceptance Limits[3]	PT Performance Acceptance Limits[4]
	mg/kg	mg/kg	%	mg/kg	mg/kg
Tin	146	134	10.8	106 - 163	79.5 - 189
Titanium	449	340	7.20	70.2 - 609	44.9 - 711
Uranium	114	113	7.10	85.5 - 140	71.9 - 153
Vanadium	180	172	8.85	137 - 207	126 - 218
Zinc	217	211	6.58	171 - 250	147 - 274

ANALYTICAL VERIFICATION

Parameter	Certified Value[1]	Proficiency Testing Study			NIST Traceability	
		Mean	Recovery[5]	n	SRM Number	Recovery
	mg/kg	mg/kg	%			%
Aluminum	10100	8160	80.8	138	-	-
Antimony	120	60.9	50.8	135	-	-
Arsenic	144	135	93.8	184	-	-
Barium	469	443	94.5	158	-	-
Beryllium	207	197	95.0	148	-	-
Boron	213	174	81.8	107	-	-
Cadmium	224	204	91.3	199	-	-
Calcium	5190	4830	93.0	122	-	-
Chromium	138	132	95.5	172	-	-
Cobalt	182	179	98.4	140	-	-
Copper	191	184	96.3	183	-	-
Iron	15000	14400	95.6	133	-	-
Lead	225	216	96.2	204	-	-
Magnesium	2570	2340	91.2	122	-	-
Manganese	331	323	97.6	147	-	-
Mercury	16.8	13.2	78.3	128	-	-
Molybdenum	193	175	90.8	143	-	-
Nickel	163	152	93.1	185	-	-
Potassium	2420	2050	84.7	121	-	-
Selenium	81.9	74.9	91.5	163	-	-

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Parameter	Certified Value[1]	Proficiency Testing Study			NIST Traceability	
		Mean	Recovery[5]	n	SRM Number	Recovery
	mg/kg	mg/kg	%			%
Silver	57.6	53.9	93.6	150	-	-
Sodium	161	149	92.8	105	-	-
Strontium	100	96.2	96.2	90	-	-
Thallium	253	232	91.6	147	-	-
Tin	146	134	92.0	100	-	-
Titanium	449	340	75.6	93	-	-
Uranium	114	113	98.8	35	-	-
Vanadium	180	172	95.4	139	-	-
Zinc	217	211	97.0	180	-	-

1. The **Certified Values** are the actual "made-to" concentrations confirmed by ERA analytical verification. The certified values are monitored and purchasers will be notified of any significant changes resulting in recertification or withdrawal of this certified reference material during the period of validity of this certificate.

2. The **Uncertainty** is the total propagated uncertainty at the 95% confidence interval. The uncertainty is based on the preparation and internal analytical verification of the product by ERA, multiplied by a coverage factor. The uncertainty applies to the product as supplied and does not take into account any required or optional dilution and/or preparations the laboratory may perform while using this product.

3. The **QC Performance Acceptance Limits (QC PALs™)**are based on actual historical data collected in ERA's Proficiency Testing program. The QC PALs™ reflect any inherent biases in the methods used to establish the limits and closely approximate a 95% confidence interval of the performance that experienced laboratories should achieve using accepted environmental methods. Use the QC PALs™ to realistically evaluate your performance against your peers.

4. The **PT Performance Acceptance Limits (PT PALs™)** are calculated using the regression equations and fixed acceptance criteria specified in the NELAC proficiency testing requirements. Use the PT PALs™ when analyzing this QC standard alongside USEPA and NELAC compliant PT standards. Please note that many PT study acceptance limits are concentration dependent (some non-linearly) and, therefore, the acceptance limits of this QC standard and any PT standard may differ relative to their difference in concentrations.

5. The **PT Data/Traceability** data include the mean value, percent recovery and number of data points reported by the laboratories in our Proficiency Testing study compared to the Certified Values. In addition, where NIST Standard Reference Materials (SRMs) are available, each analyte has been analytically traced to the NIST SRM listed. This product is traceable to the lot numbers of its starting materials. All gravimetric and volumetric measurements related to its manufacture are traceable to NIST through an unbroken chain of comparisons.
Traceability Recovery (%) = [(% recovery certified standard)/(% recovery NIST SRM)]*100
The traceability data shown were compiled by analyzing the ERA standards or their associated stock solutions against the applicable NIST SRMs.

6. For additional information on this product such as intended use, instructions for use, level of homogeneity, and safety information, please refer to the provided Instruction Sheet

If you have any questions or need technical assistance, please call ERA technical assistance at 1-800-372-0122 or send an email to info@eraqc.com.

Certifying Officer

Brian Miller

Quality Officer

Matthew Seebeck

ISO/IEC GUIDE 34:2009 ACCREDITED REFERENCE MATERIAL PRODUCER CERTIFICATE NO. 1539.03

ISO/IEC 17025:2005 ACCREDITED CHEMICAL TESTING LABORATORY CERTIFICATE NO. 1539.02

16341 Table Mountain Pkwy ▪ Golden, CO 80403 ▪ T: 800.372.0122 ▪ 303.431.8454 ▪ www.eraqc.com

ERA
A Waters Company

Reference Material

▪ Certificate of Analysis ▪

Product: Metals in Soil
Catalog Number: 540
Lot No. D105-540
Certificate Issue Date: March 19, 2019
Expiration Date: October 12, 2022
Revision Number: Original

Product use instructions are included as part of the certification packet and are paginated separately from this Certificate of Analysis. Please reference the product use instructions for catalog #540 revision 030512.

CERTIFICATION

Parameter	Certified Value[1]	Reference Value	Uncertainty[2]	QC Performance Acceptance Limits[3]	PT Performance Acceptance Limits[4]
	mg/kg	mg/kg	%	mg/kg	mg/kg
Aluminum	10100	8800	8.32	4600 - 13000	4470 - 13100
Antimony	282	147	7.70	6.17 - 289	28.2 - 366
Arsenic	155	143	6.34	119 - 168	100 - 186
Barium	439	415	5.37	343 - 488	311 - 519
Beryllium	192	179	2.78	149 - 210	134 - 224
Boron	216	160	7.08	113 - 208	96.1 - 238
Cadmium	61.5	56.2	0.528	46.6 - 65.9	42.2 - 70.3
Calcium	5190	4960	6.64	4090 - 5840	3610 - 6310
Chromium	104	101	4.75	83.2 - 118	70.5 - 131
Cobalt	196	189	0.500	158 - 219	141 - 236
Copper	65.0	63.1	2.65	53.1 - 73.1	47.3 - 78.9
Iron	15000	15700	8.94	10100 - 21300	6000 - 25400
Lead	126	125	4.77	103 - 146	89.3 - 160
Magnesium	2570	2410	6.26	1860 - 2970	1520 - 3310
Manganese	387	382	5.37	315 - 449	290 - 474
Mercury	7.76	7.61	13.7	5.53 - 9.69	4.57 - 10.7
Molybdenum	120	107	0.500	86.0 - 128	75.5 - 139
Nickel	117	108	0.514	89.5 - 127	75.7 - 141
Potassium	2420	2110	5.62	1500 - 2720	1260 - 2960
Selenium	84.6	77.9	7.10	61.8 - 94.0	49.2 - 107
Silver	34.6	34.3	8.34	27.8 - 40.9	23.6 - 45.1
Sodium	161	145	6.72	106 - 183	54.3 - 235
Strontium	104	104	3.95	85.1 - 123	74.8 - 133
Thallium	123	113	0.500	91.3 - 134	77.1 - 149

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▪ Certificate of Analysis ▪

Parameter	Certified Value[1]	Reference Value	Uncertainty[2]	QC Performance Acceptance Limits[3]	PT Performance Acceptance Limits[4]
	mg/kg	mg/kg	%	mg/kg	mg/kg
Tin	118	107	0.500	83.5 - 130	61.2 - 152
Titanium	512	421	5.80	114 - 728	0.00 - 854
Uranium	103	104	6.18	79.1 - 128	71.9 - 135
Vanadium	87.3	83.7	8.55	66.8 - 101	54.2 - 113
Zinc	251	240	3.98	194 - 285	168 - 312

ANALYTICAL VERIFICATION

Parameter	Certified Value[1]	Proficiency Testing Study			NIST Traceability	
		Mean	Recovery[5]	n	SRM Number	Recovery
	mg/kg	mg/kg	%			%
Aluminum	10100	8800	87.1	193	-	-
Antimony	282	147	52.3	216	-	-
Arsenic	155	143	92.5	240	-	-
Barium	439	415	94.6	222	-	-
Beryllium	192	179	93.4	220	-	-
Boron	216	160	74.2	152	-	-
Cadmium	61.5	56.2	91.5	239	-	-
Calcium	5190	4960	95.6	175	-	-
Chromium	104	101	96.8	237	-	-
Cobalt	196	189	96.2	215	-	-
Copper	65.0	63.1	97.1	237	-	-
Iron	15000	15700	105	195	-	-
Lead	126	125	99.0	243	-	-
Magnesium	2570	2410	93.9	177	-	-
Manganese	387	382	98.7	215	-	-
Mercury	7.76	7.61	98.0	157	-	-
Molybdenum	120	107	89.4	216	-	-
Nickel	117	108	92.5	235	-	-
Potassium	2420	2110	87.2	181	-	-
Selenium	84.6	77.9	92.1	231	-	-

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Reference Material

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Parameter	Certified Value[1]	Proficiency Testing Study			NIST Traceability	
		Mean	Recovery[5]	n	SRM Number	Recovery
	mg/kg	mg/kg	%			%
Silver	34.6	34.3	99.3	216	-	-
Sodium	161	145	89.8	166	-	-
Strontium	104	104	99.9	148	-	-
Thallium	123	113	91.8	215	-	-
Tin	118	107	90.4	164	-	-
Titanium	512	421	82.2	157	-	-
Uranium	103	104	101	61	-	-
Vanadium	87.3	83.7	95.9	214	-	-
Zinc	251	240	95.5	234	-	-

1. The **Certified Values** are the actual "made-to" concentrations confirmed by ERA analytical verification. The certified values are monitored and purchasers will be notified of any significant changes resulting in recertification or withdrawal of this reference material during the period of validity of this certificate.

2. The **Uncertainty** is the total propagated uncertainty at the 95% confidence interval. The uncertainty is based on the preparation and internal analytical verification of the product by ERA, multiplied by a coverage factor. The uncertainty applies to the product as supplied and does not take into account any required or optional dilution and/or preparations the laboratory may perform while using this product.

3. The **QC Performance Acceptance Limits (QC PALs™)**are based on actual historical data collected in ERA's Proficiency Testing program. The QC PALs™ reflect any inherent biases in the methods used to establish the limits and closely approximate a 95% confidence interval of the performance that experienced laboratories should achieve using accepted environmental methods. Use the QC PALs™ to realistically evaluate your performance against your peers.

4. The **PT Performance Acceptance Limits (PT PALs™)** are calculated using the regression equations and fixed acceptance criteria specified in the NELAC proficiency testing requirements. Use the PT PALs™ when analyzing this QC standard alongside USEPA and NELAC compliant PT standards. Please note that many PT study acceptance limits are concentration dependent (some non-linearly) and, therefore, the acceptance limits of this QC standard and any PT standard may differ relative to their difference in concentrations.

5. The **PT Data/Traceability** data include the mean value, percent recovery and number of data points reported by the laboratories in our Proficiency Testing study compared to the Certified Values. In addition, where NIST Standard Reference Materials (SRMs) are available, each analyte has been analytically traced to the NIST SRM listed. This product is traceable to the lot numbers of its starting materials. All gravimetric and volumetric measurements related to its manufacture are traceable to NIST through an unbroken chain of comparisons.
Traceability Recovery (%) = [(% recovery certified standard)/(% recovery NIST SRM)]*100
The traceability data shown were compiled by analyzing the ERA standards or their associated stock solutions against the applicable NIST SRMs.

6. For additional information on this product such as intended use, instructions for use, level of homogeneity, and safety information, please refer to the provided Instruction Sheet

If you have any questions or need technical assistance, please call ERA technical assistance at 1-800-372-0122 or send an email to info@eraqc.com.

Certifying Officer

Brian Miller

Brian Miller

Quality Officer

Matthew Seebeck

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Certified Reference Material

▪ Certificate of Analysis ▪

Product: Metals in Soil
Catalog Number: 540
Lot No. D109-540
Certificate Issue Date: March 24, 2020
Expiration Date: October 03, 2023
Revision Number: Original

Product use instructions are included as part of the certification packet and are paginated separately from this Certificate of Analysis. Please reference the product use instructions for catalog #540 revision 090119.

CERTIFICATION

Parameter	Certified Value[1]	Reference Value[7]	Uncertainty[2]	QC Performance Acceptance Limits[3]	PT Performance Acceptance Limits[4]
	mg/kg	mg/kg	%	mg/kg	mg/kg
Aluminum	10100	8130	2.54	3920 - 12300	4060 - 12200
Antimony	259	134	5.03	4.56 - 264	25.9 - 335
Arsenic	171	156	3.38	129 - 183	109 - 203
Barium	253	239	4.81	197 - 280	179 - 298
Beryllium	179	169	6.59	141 - 198	127 - 212
Boron	114	87.5	10.3	62.5 - 113	52.5 - 125
Cadmium	149	137	5.43	113 - 160	103 - 171
Calcium	5190	4760	3.48	3890 - 5640	3460 - 6070
Chromium	163	154	3.79	126 - 181	108 - 200
Cobalt	127	121	5.07	101 - 141	90.8 - 151
Copper	57.0	54.9	4.13	46.1 - 63.6	41.1 - 68.6
Iron	15000	14100	6.27	8470 - 19700	4920 - 23200
Lead	133	130	3.00	107 - 152	93.3 - 167
Magnesium	2570	2320	3.32	1760 - 2880	1440 - 3200
Manganese	277	269	2.67	221 - 317	199 - 340
Mercury	21.6	20.5	7.72	14.7 - 26.3	12.3 - 28.6
Molybdenum	108	95.4	2.61	76.4 - 114	66.9 - 124
Nickel	58.7	53.9	4.97	44.5 - 63.3	37.7 - 70.0
Potassium	2420	2020	3.06	1410 - 2630	1190 - 2850
Selenium	181	167	5.63	132 - 201	113 - 221
Silver	35.5	33.6	5.20	26.8 - 40.3	23.0 - 44.1
Sodium	161	133	2.76	95.1 - 171	46.5 - 220
Strontium	89.7	87.9	4.59	71.7 - 104	62.8 - 113
Thallium	121	112	5.19	90.3 - 133	76.1 - 147

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▪ Certificate of Analysis ▪

Parameter	Certified Value[1]	Reference Value[7]	Uncertainty[2]	QC Performance Acceptance Limits[3]	PT Performance Acceptance Limits[4]
	mg/kg	mg/kg	%	mg/kg	mg/kg
Tin	83.5	74.0	5.42	57.6 - 90.4	39.7 - 108
Titanium	474	333	7.17	48.6 - 617	46.3 - 620
Uranium	51.9	51.9	3.36	39.6 - 64.3	35.9 - 68.0
Vanadium	68.1	62.6	6.00	49.4 - 75.8	37.0 - 88.3
Zinc	165	158	2.34	128 - 188	111 - 205

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ANALYTICAL VERIFICATION

Parameter	Certified Value[1]	Proficiency Testing Study			NIST Traceability	
		Mean	Recovery[5]	n	SRM Number[6]	Recovery
	mg/kg	mg/kg	%			%
Aluminum	10100	8130	80.5	196	-	-
Antimony	259	134	51.8	217	-	-
Arsenic	171	156	91.3	243	-	-
Barium	253	239	94.3	230	-	-
Beryllium	179	169	94.6	223	-	-
Boron	114	87.5	76.7	150	-	-
Cadmium	149	137	91.8	249	-	-
Calcium	5190	4760	91.8	184	-	-
Chromium	163	154	94.4	245	-	-
Cobalt	127	121	95.3	221	-	-
Copper	57.0	54.9	96.2	243	-	-
Iron	15000	14100	93.9	199	-	-
Lead	133	130	97.7	251	-	-
Magnesium	2570	2320	90.1	182	-	-
Manganese	277	269	97.2	220	-	-
Mercury	21.6	20.5	94.7	172	-	-
Molybdenum	108	95.4	88.3	218	-	-
Nickel	58.7	53.9	91.8	242	-	-
Potassium	2420	2020	83.5	187	-	-
Selenium	181	167	92.2	235	-	-
Silver	35.5	33.6	94.5	222	-	-
Sodium	161	133	82.7	177	-	-
Strontium	89.7	87.9	98.0	151	-	-
Thallium	121	112	92.2	219	-	-
Tin	83.5	74.0	88.6	170	-	-
Titanium	474	333	70.3	157	-	-
Uranium	51.9	51.9	100	60	-	-
Vanadium	68.1	62.6	91.9	213	-	-
Zinc	165	158	95.8	238	-	-

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▪ Certificate of Analysis ▪

1. The **Certified Values** are the actual gravimetric/volumetric "made-to" concentrations confirmed by ERA analytical verification. The certified values are monitored and purchasers will be notified of any significant changes resulting in recertification or withdrawal of this certified reference material during the period of validity of this certificate.

2. The **Uncertainty** represents an expanded uncertainty and approximates a 95% confidence interval. The uncertainty is based on the characterization, homogeneity and stability characteristics of the product, multiplied by a coverage factor (k=2). The uncertainty applies to the product as supplied and does not take into account any required or optional dilution and/or preparations the laboratory may perform while using this product. The formula used to calculate the expanded uncertainty is:
$U_{expanded} = k * SQRT((U_{char}^2) + (U_{homogen}^2) + (U_{LTS}^2) + (U_{STS}^2) + (U_{RSS}^2))$

Where:

$U_{expanded}$ = Expanded uncertainty.
k = Coverage factor.
U_{char} = Combined standard uncertainty of the manufacturing and/or analytical verification assessment.
$U_{homogen}$ = Standard uncertainty of the homogeneity assessment.
U_{LTS} = Standard uncertainty associated with long-term stability.
U_{STS} = Standard uncertainty associated with short-term (transport) stability.
U_{RSS} = Standard uncertainty associated with repeated sampling of the product (where permitted by product use instructions).

3. The **QC Performance Acceptance Limits (QC PALs™)** are based on actual historical data collected in ERA's Proficiency Testing program. The QC PALs™ reflect any inherent biases in the methods used to establish the limits and closely approximate a 95% confidence interval of the performance that experienced laboratories should achieve using accepted environmental methods. Use the QC PALs™ to realistically evaluate your performance against your peers.

4. The **PT Performance Acceptance Limits (PT PALs™)** are calculated using the regression equations and fixed acceptance criteria specified in the NELAC proficiency testing requirements. Use the PT PALs™ when analyzing this certified reference material alongside USEPA and NELAC compliant PT study materials. Please note that many PT study acceptance limits are concentration dependent (some non-linearly) and therefore, the acceptance limits of this certified reference material and any PT study material may differ relative to their difference in concentrations.

5. The **PT Performance Data** include the mean value, percent recovery and number of data points reported by laboratories in our Proficiency Testing study compared to the Certified Values. In the event this lot was not used in a proficiency testing scheme, the data displayed was generated internally by ERA.

6. Where NIST Standard Reference Materials (SRMs) are available, each analyte has been analytically traced to the NIST SRM listed. **Analytical Traceability Recovery (%)** = [(% recovery ERA certified reference material)/(% recovery NIST SRM)]*100
The traceability data shown were compiled by analyzing this ERA certified reference material and/or it's associated stock solution(s) against the applicable NIST SRMs.

7. The **Reference Values** are equal to the mean recoveries for the parameters as determined in an interlaboratory round robin study. The **Reference Values** represent the expected performance for the analytes in this standard. ERA recommends using the **Reference Values** when assessing or evaluating your results.

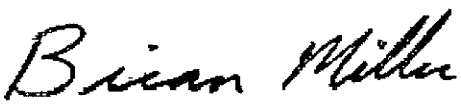
8. **Metrological Traceability**. This certified reference material is metrologically traceable to NIST mass reference materials through an unbroken chain of comparisons.

9. For additional information on this product such as intended use, storage information, instructions for use, minimum sample size, and safety information, please refer to the Product Use Instructions provided.

If you have any questions or need technical assistance, please call ERA technical assistance at 1-800-372-0122 or send an email to info@eraqc.com.

Certifying Officer

Brian Miller



Quality Officer

Matthew Seebeck

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Certified Reference Material

▪ Certificate of Analysis ▪

Product: Metals in Soil
Catalog Number: 540
Lot No. D113-540
Certificate Issue Date: March 23, 2021
Expiration Date: October 13, 2024
Revision Number: Original

Product use instructions are included as part of the certification packet and are paginated separately from this Certificate of Analysis. Please reference the product use instructions for catalog #540 revision 090119.

CERTIFICATION

Parameter	Certified Value[1]	Reference Value	Uncertainty[2]	QC Performance Acceptance Limits[3]	PT Performance Acceptance Limits[4]
	mg/kg	mg/kg	%	mg/kg	mg/kg
Aluminum	10100	8630	12.0	4420 - 12800	4370 - 12900
Antimony	256	129	16.8	0.742 - 257	25.6 - 323
Arsenic	91.6	84.5	15.1	70.0 - 99.0	59.2 - 110
Barium	259	249	9.94	206 - 292	187 - 311
Beryllium	175	163	3.89	135 - 191	122 - 204
Boron	95.7	76.7	12.8	55.7 - 97.7	48.0 - 107
Cadmium	107	99.0	11.5	82.2 - 116	74.2 - 124
Calcium	5190	4760	11.8	3890 - 5640	3460 - 6070
Chromium	129	122	14.6	101 - 144	85.7 - 159
Cobalt	63.6	61.7	11.5	51.9 - 71.6	46.3 - 77.2
Copper	62.3	61.5	12.3	51.9 - 71.0	46.1 - 76.8
Iron	15000	14500	15.7	8860 - 20100	5190 - 23800
Lead	122	123	13.9	103 - 144	88.3 - 158
Lithium	6.42	7.30	18.7	5.13 - 9.48	3.20 - 11.4
Magnesium	2570	2360	8.87	1810 - 2920	1480 - 3250
Manganese	470	456	13.4	375 - 538	350 - 563
Mercury	22.1	18.9	14.5	13.0 - 24.8	11.3 - 26.4
Molybdenum	80.1	72.8	11.0	58.7 - 87.0	50.5 - 95.2
Nickel	143	135	14.2	112 - 158	94.7 - 176
Potassium	2420	2090	8.21	1480 - 2700	1240 - 2940
Selenium	128	121	11.7	96.9 - 146	80.4 - 162
Silver	45.4	44.1	6.69	35.5 - 52.8	30.7 - 57.6
Sodium	161	136	9.34	97.4 - 174	48.1 - 223
Strontium	82.2	82.3	8.42	67.4 - 97.1	58.6 - 106

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Parameter	Certified Value[1]	Reference Value	Uncertainty[2]	QC Performance Acceptance Limits[3]	PT Performance Acceptance Limits[4]
	mg/kg	mg/kg	%	mg/kg	mg/kg
Thallium	154	144	7.54	117 - 171	101 - 187
Tin	89.7	79.8	14.0	62.2 - 97.4	43.5 - 116
Titanium	705	546	10.3	123 - 969	118 - 974
Uranium	29.5	30.9	3.38	23.9 - 37.9	21.3 - 40.5
Vanadium	196	186	14.2	148 - 224	138 - 235
Zinc	307	295	10.4	240 - 351	207 - 384

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Calculation of Method 6020 Metals

Aqueous Samples

The instrument will calculate the concentration (µg/L). This value is divided by 1000 to convert the units to mg/L. If the sample is diluted (DF), the result is multiplied by the DF to generate the final result.

$$\text{Result, mg/L} = C_s \times (1\text{mg}/1000\mu\text{g}) \times (\text{DF})$$

Where:

C_s = Concentration of sample (µg/L)

DF = Dilution Factor

Alpha ICPMSQ Seq

6/26/2024 10:46:56 AM

Sample List Summary:

Instrument ID: iCAP Q

Index:	Label:	Rack	Vial	Main Runs:	Survey Runs:	Start Time:
1	Rinse	0	1	3	1	6/26/2024 3:23:24 AM
2	CAL LOT #M24-1045	0	1	3	1	6/26/2024 3:28:01 AM
3	Blank EJF ICPMSQ	4	49	3	1	6/26/2024 3:32:38 AM
4	0.2/20 Cal	0	2	3	1	6/26/2024 3:37:20 AM
5	1/100 Cal	0	3	3	1	6/26/2024 3:41:58 AM
6	10/1000 Cal	0	4	3	1	6/26/2024 3:46:36 AM
7	60/6000 Cal	0	5	3	1	6/26/2024 3:51:15 AM
8	120/12000 Cal	0	6	3	1	6/26/2024 3:55:54 AM
9	Sr 200ppb	4	55	3	1	6/26/2024 4:00:54 AM
10	ICV	0	7	3	1	6/26/2024 4:05:36 AM
11	ICB	0	10	3	1	6/26/2024 4:10:16 AM
12	ICB	0	10	3	1	6/26/2024 4:18:57 AM
13	ICSA	4	53	3	1	6/26/2024 4:26:42 AM
14	LDR Check	4	1	3	1	6/26/2024 4:31:24 AM
15	Rinse	0	1	3	1	6/26/2024 4:36:05 AM
16	CCV	0	9	3	1	6/26/2024 4:40:42 AM
17	CCB	0	10	3	1	6/26/2024 4:45:24 AM
18	L2434640-30 6020TL	1	1	3	1	6/26/2024 4:54:23 AM
19	L2434648-01 6020TL	1	2	3	1	6/26/2024 4:59:01 AM
20	L2434648-02 6020TL	1	3	3	1	6/26/2024 5:03:38 AM
21	L2434648-03 6020TL	1	4	3	1	6/26/2024 5:08:16 AM
22	L2434648-04 6020TL	1	5	3	1	6/26/2024 5:12:55 AM
23	L2434648-05 6020TL	1	6	3	1	6/26/2024 5:17:34 AM
24	xL2435162-01 6020TL	1	7	3	1	6/26/2024 5:22:13 AM
25	xl2433144-01d10 A2-6020T	1	15	3	1	6/26/2024 5:26:52 AM
26	L2434648-05d10 6020TL	1	30	3	1	6/26/2024 5:31:29 AM
27	L2435162-01 6020TL	1	7	3	1	6/26/2024 5:36:07 AM
28	CCV	0	9	3	1	6/26/2024 5:40:47 AM
29	CCB	0	10	3	1	6/26/2024 5:45:29 AM
30	CCV	0	9	3	1	6/26/2024 6:04:20 AM
31	CCB	0	10	3	1	6/26/2024 6:10:13 AM
32	xwg1939020-1 6020SL	1	8	3	1	6/26/2024 6:17:21 AM
33	L2434612-21 6020SL	1	16	3	1	6/26/2024 6:22:01 AM
34	wg1939020-2d10 6020SL	1	9	3	1	6/26/2024 6:26:39 AM
35	L2434492-01 6020SL	1	10	3	1	6/26/2024 6:31:19 AM
36	wg1939020-3d10 6020SL	1	11	3	1	6/26/2024 6:35:59 AM
37	wg1939020-4 6020SL	1	12	3	1	6/26/2024 6:40:39 AM
38	wg1939020-5d10 6020SL	1	13	3	1	6/26/2024 6:47:14 AM
39	wg1939020-6d5 6020SL	1	14	3	1	6/26/2024 6:53:53 AM
40	L2434612-22 6020SL	1	17	3	1	6/26/2024 6:58:31 AM
41	L2434612-23 6020SL	1	18	3	1	6/26/2024 7:03:09 AM
42	CCV	0	9	3	1	6/26/2024 7:07:47 AM
43	CCB	0	10	3	1	6/26/2024 7:12:29 AM
44	CCV	0	9	3	1	6/26/2024 7:23:23 AM
45	CCB	0	10	3	1	6/26/2024 7:28:05 AM
46	wg1939020-1 6020SL	1	8	3	1	6/26/2024 7:38:42 AM
47	L2434492-02 6020SL	1	15	3	1	6/26/2024 7:43:23 AM
48	WG1939089-1 A2-6020T	1	26	3	1	6/26/2024 7:48:01 AM
49	L2434612-24 6020SL	1	19	3	1	6/26/2024 7:52:38 AM
50	L2434612-25 6020SL	1	20	3	1	6/26/2024 7:57:17 AM
51	L2434612-26 6020SL	1	21	3	1	6/26/2024 8:01:56 AM

Alpha ICPMSQ Seq

6/26/2024 10:46:56 AM

Index:	Label:	Rack	Vial	Main Runs:	Survey Runs:	Start Time:
52	L2434612-27 6020SL	1	22	3	1	6/26/2024 8:06:35 AM
53	L2434612-28 6020SL	1	23	3	1	6/26/2024 8:11:15 AM
54	L2434612-29 6020SL	1	24	3	1	6/26/2024 8:15:55 AM
55	L2434612-30 6020SL	1	25	3	1	6/26/2024 8:20:35 AM
56	CCV	0	9	3	1	6/26/2024 8:25:12 AM
57	CCB	0	10	3	1	6/26/2024 8:29:55 AM
58	CCV	0	9	3	1	6/26/2024 8:40:12 AM
59	CCB	0	10	3	1	6/26/2024 8:44:55 AM
60	WG1939089-2d10 A2-6020T	1	27	3	1	6/26/2024 8:51:12 AM
61	I2429901-01d2 A2-6020T	1	28	3	1	6/26/2024 9:00:23 AM
62	WG1939089-3d10 A2-6020T	1	29	3	1	6/26/2024 9:05:01 AM
63	WG1939089-4d10 A2-6020T	1	30	3	1	6/26/2024 9:09:39 AM
64	WG1939089-5d10 A2-6020T	1	31	3	1	6/26/2024 9:14:18 AM
65	WG1939089-6d10 A2-6020T	1	32	3	1	6/26/2024 9:18:57 AM
66	I2429901-02d2 A2-6020T	1	33	3	1	6/26/2024 9:23:36 AM
67	I2429901-03d2 A2-6020T	1	34	3	1	6/26/2024 9:28:16 AM
68	I2429901-04d2 A2-6020T	1	35	3	1	6/26/2024 9:32:56 AM
69	I2429901-05d2 A2-6020T	1	36	3	1	6/26/2024 9:37:36 AM
70	CCV	0	9	3	1	6/26/2024 9:42:16 AM
71	CCB	0	10	3	1	6/26/2024 9:46:59 AM
72	I2429901-06d2 A2-6020T	1	37	3	1	6/26/2024 9:52:27 AM
73	I2429901-07d2 A2-6020T	1	38	3	1	6/26/2024 9:57:08 AM
74	I2429908-01d2 A2-6020T	1	39	3	1	6/26/2024 10:01:46 AM
75	I2429908-02d2 A2-6020T	1	40	3	1	6/26/2024 10:06:24 AM
76	I2429908-03d2 A2-6020T	1	41	3	1	6/26/2024 10:11:02 AM
77	I2429908-04d2 A2-6020T	1	42	3	1	6/26/2024 10:15:41 AM
78	I2429908-05d2 A2-6020T	1	43	3	1	6/26/2024 10:20:20 AM
79	I2429908-06d2 A2-6020T	1	44	3	1	6/26/2024 10:24:59 AM
80	I2429908-07d2 A2-6020T	1	45	3	1	6/26/2024 10:29:39 AM
81	CCV	0	9	3	1	6/26/2024 10:34:19 AM
82	CCB	0	10	3	1	6/26/2024 10:39:02 AM
83	Unknown	1	46	3	1	
84	Unknown	1	47	3	1	
85	Unknown	1	48	3	1	
86	Unknown	1	49	3	1	
87	Unknown	1	50	3	1	
88	Unknown	1	51	3	1	
89	Unknown	1	52	3	1	
90	Unknown	1	53	3	1	
91	Unknown	1	54	3	1	
92	Unknown	1	55	3	1	
93	Unknown	1	56	3	1	
94	Unknown	1	57	3	1	
95	Unknown	1	58	3	1	
96	Unknown	1	59	3	1	
97	Unknown	1	60	3	1	
98	CCV	0	9	3	1	
99	CCB	0	10	3	1	
100	CCV	0	9	3	1	
101	CCB	0	10	3	1	

Alpha ICPMSQ Seq

6/27/2024 4:23:59 AM

Sample List Summary:

Instrument ID: iCAP Q

Index:	Label:	Rack	Vial	Main Runs:	Survey Runs:	Start Time:
1	Rinse	0	1	3	1	6/26/2024 10:45:32 AM
2	CAL LOT #M24-1045	0	1	3	1	6/26/2024 10:50:09 AM
3	Blank EJF ICPMSQ	4	49	3	1	6/26/2024 10:54:46 AM
4	x0.2/20 Cal	0	2	3	1	6/26/2024 10:59:28 AM
5	x1/100 Cal	0	3	3	1	6/26/2024 11:04:06 AM
6	10/1000 Cal	0	4	3	1	6/26/2024 11:08:44 AM
7	60/6000 Cal	0	5	3	1	6/26/2024 11:13:23 AM
8	120/12000 Cal	0	6	3	1	6/26/2024 11:18:03 AM
9	0.2/20 Cal	0	2	3	1	6/26/2024 11:23:38 AM
10	1/100 Cal	0	3	3	1	6/26/2024 11:28:16 AM
11	x1/100 Cal	0	3	3	1	6/26/2024 11:33:37 AM
12	x1/100 Cal	4	3	3	1	6/26/2024 11:41:53 AM
13	x1/100 Cal	0	3	3	1	6/26/2024 11:49:33 AM
14	Sr 200ppb	4	55	3	1	6/26/2024 11:54:35 AM
15	ICV	0	7	3	1	6/26/2024 11:59:17 AM
16	ICB	0	10	3	1	6/26/2024 12:03:58 PM
17	ICSA	4	53	3	1	6/26/2024 12:08:45 PM
18	LDR Check	4	1	3	1	6/26/2024 12:13:27 PM
19	Rinse	0	1	3	1	6/26/2024 12:18:09 PM
20	CCV	0	9	3	1	6/26/2024 12:22:46 PM
21	CCB	0	10	3	1	6/26/2024 12:27:27 PM
22	CCB	0	10	3	1	6/26/2024 12:35:32 PM
23	wg1939188-1 6020TL	1	46	3	1	6/26/2024 12:41:19 PM
24	wg1939188-2d10 6020TL	1	47	3	1	6/26/2024 12:45:58 PM
25	L2434679-01 6020TL	1	53	3	1	6/26/2024 12:50:38 PM
26	L2434679-02 6020TL	1	54	3	1	6/26/2024 12:55:16 PM
27	L2434679-04 6020TL	1	55	3	1	6/26/2024 12:59:54 PM
28	xL2434679-03 6020TL	1	48	3	1	6/26/2024 1:04:32 PM
29	wg1939188-3d10 6020TL	1	49	3	1	6/26/2024 1:09:12 PM
30	wg1939188-4d10 6020TL	1	50	3	1	6/26/2024 1:13:50 PM
31	wg1939188-5d10 6020TL	1	51	3	1	6/26/2024 1:18:27 PM
32	wg1939188-6d5 6020TL	1	52	3	1	6/26/2024 1:23:05 PM
33	CCV	0	9	3	1	6/26/2024 1:27:43 PM
34	CCB	0	10	3	1	6/26/2024 1:32:25 PM
35	L2434679-03 6020TL	1	48	3	1	6/26/2024 1:41:14 PM
36	L2434679-05 6020TL	1	56	3	1	6/26/2024 1:45:54 PM
37	L2434679-06 6020TL	1	57	3	1	6/26/2024 1:50:33 PM
38	L2434679-07 6020TL	1	58	3	1	6/26/2024 1:55:12 PM
39	L2434679-08 6020TL	1	59	3	1	6/26/2024 1:59:51 PM
40	L2434679-09 6020TL	1	60	3	1	6/26/2024 2:04:31 PM
41	L2434679-10 6020TL	2	1	3	1	6/26/2024 2:09:11 PM
42	L2434679-11 6020TL	2	2	3	1	6/26/2024 2:13:49 PM
43	L2434679-12 6020TL	2	3	3	1	6/26/2024 2:18:28 PM
44	L2434679-14 6020TL	2	4	3	1	6/26/2024 2:23:07 PM
45	CCV	0	9	3	1	6/26/2024 2:27:45 PM
46	CCB	0	10	3	1	6/26/2024 2:32:28 PM
47	WG1939202-1 6020SL	2	11	3	1	6/26/2024 2:40:53 PM
48	WG1939202-2d10 6020SL	2	12	3	1	6/26/2024 2:46:49 PM
49	L2434740-01 6020TL	2	5	3	1	6/26/2024 2:51:28 PM
50	L2434740-02 6020TL	2	6	3	1	6/26/2024 2:56:07 PM
51	L2434740-03 6020TL	2	7	3	1	6/26/2024 3:00:46 PM

Alpha ICPMSQ Seq

6/27/2024 4:23:59 AM

Index:	Label:	Rack	Vial	Main Runs:	Survey Runs:	Start Time:
52	L2434740-04 6020TL	2	8	3	1	6/26/2024 3:05:24 PM
53	L2434740-05 6020TL	2	9	3	1	6/26/2024 3:10:03 PM
54	L2434740-06 6020TL	2	10	3	1	6/26/2024 3:14:43 PM
55	I2434679-01 6020SL	2	18	3	1	6/26/2024 3:19:22 PM
56	I2434679-02 6020SL	2	19	3	1	6/26/2024 3:24:01 PM
57	CCV	0	9	3	1	6/26/2024 3:28:41 PM
58	CCB	0	10	3	1	6/26/2024 3:33:23 PM
59	I2434679-04 6020SL	2	20	3	1	6/26/2024 3:47:52 PM
60	I2434679-05 6020SL	2	21	3	1	6/26/2024 3:52:31 PM
61	I2434679-06 6020SL	2	22	3	1	6/26/2024 3:57:10 PM
62	I2434679-07 6020SL	2	23	3	1	6/26/2024 4:01:50 PM
63	I2434679-08 6020SL	2	24	3	1	6/26/2024 4:06:30 PM
64	I2434679-03 6020SL	2	13	3	1	6/26/2024 4:11:10 PM
65	WG1939202-3d10 6020SL	2	14	3	1	6/26/2024 4:15:49 PM
66	WG1939202-4d10 6020SL	2	15	3	1	6/26/2024 4:20:29 PM
67	WG1939202-5d10 6020SL	2	16	3	1	6/26/2024 4:25:08 PM
68	WG1939202-6d5 6020SL	2	17	3	1	6/26/2024 4:29:47 PM
69	CCV	0	9	3	1	6/26/2024 4:34:26 PM
70	CCB	0	10	3	1	6/26/2024 4:39:09 PM
71	CCV	0	9	3	1	6/26/2024 4:54:17 PM
72	CCB	0	10	3	1	6/26/2024 4:59:42 PM
73	I2434679-09 6020SL	2	25	3	1	6/26/2024 5:09:40 PM
74	I2434679-10 6020SL	2	26	3	1	6/26/2024 5:14:19 PM
75	I2434679-11 6020SL	2	27	3	1	6/26/2024 5:18:59 PM
76	I2434679-12 6020SL	2	28	3	1	6/26/2024 5:23:39 PM
77	I2434679-14 6020SL	2	29	3	1	6/26/2024 5:28:18 PM
78	I2434790-01 6020SL	2	30	3	1	6/26/2024 5:32:58 PM
79	I2434790-02 6020SL	2	31	3	1	6/26/2024 5:44:22 PM
80	I2434790-03 6020SL	2	32	3	1	6/26/2024 5:49:01 PM
81	I2434790-04 6020SL	2	33	3	1	6/26/2024 5:53:40 PM
82	xl2434790-05 6020SL	2	34	3	1	6/26/2024 5:58:20 PM
83	CCV	0	9	3	1	6/26/2024 6:03:00 PM
84	CCB	0	10	3	1	6/26/2024 6:07:43 PM
85	WG1939226-1 6020TL	2	37	3	1	6/26/2024 6:30:42 PM
86	WG1939226-2d10 6020TL	2	38	3	1	6/26/2024 6:35:22 PM
87	I2434790-06 6020SL	2	35	3	1	6/26/2024 6:40:02 PM
88	xl2434790-05d10 6020SL	2	36	3	1	6/26/2024 6:44:42 PM
89	L2435036-03 6020TL	2	46	3	1	6/26/2024 6:49:22 PM
90	L2435036-01 6020TL	2	41	3	1	6/26/2024 6:54:02 PM
91	wg1939584-3d10 6020TL	2	42	3	1	6/26/2024 6:58:42 PM
92	wg1939584-4 6020TL	2	43	3	1	6/26/2024 7:03:22 PM
93	wg1939584-5d10 6020TL	2	44	3	1	6/26/2024 7:08:02 PM
94	wg1939584-6d5 6020TL	2	45	3	1	6/26/2024 7:12:42 PM
95	CCV	0	9	3	1	6/26/2024 7:17:22 PM
96	CCB	0	10	3	1	6/26/2024 7:22:05 PM
97	wg1939584-1 6020TL	2	39	3	1	6/26/2024 7:26:49 PM
98	wg1939584-2d10 6020TL	2	40	3	1	6/26/2024 7:31:29 PM
99	L2435036-05 6020TL	2	47	3	1	6/26/2024 7:36:09 PM
100	L2435036-07 6020TL	2	48	3	1	6/26/2024 7:40:49 PM
101	L2435036-09 6020TL	2	49	3	1	6/26/2024 7:45:30 PM
102	L2435036-11 6020TL	2	50	3	1	6/26/2024 7:50:10 PM
103	L2435036-13 6020TL	2	51	3	1	6/26/2024 7:54:51 PM
104	L2435036-15 6020TL	2	52	3	1	6/26/2024 7:59:31 PM
105	L2435413-04 6020TL	2	53	3	1	6/26/2024 8:04:12 PM
106	L2435413-05 6020TL	2	54	3	1	6/26/2024 8:08:52 PM
107	CCV	0	9	3	1	6/26/2024 8:13:33 PM

Alpha ICPMSQ Seq

6/27/2024 4:23:59 AM

Index:	Label:	Rack	Vial	Main Runs:	Survey Runs:	Start Time:
108	CCB	0	10	3	1	6/26/2024 8:18:16 PM
109	Day 1 0.2	1	60	3	1	6/26/2024 8:23:00 PM
110	Day 1 10	2	1	3	1	6/26/2024 8:27:40 PM
111	Day 2 0.2	2	2	3	1	6/26/2024 8:32:20 PM
112	Day 2 3	2	3	3	1	6/26/2024 8:36:59 PM
113	Day 2 10	2	4	3	1	6/26/2024 8:41:39 PM
114	I2434544-02 6020TL	2	59	3	1	6/26/2024 8:46:18 PM
115	L2435413-09 6020TL	2	55	3	1	6/26/2024 8:50:59 PM
116	L2435413-10 6020TL	2	56	3	1	6/26/2024 8:55:40 PM
117	L2435413-11 6020TL	2	57	3	1	6/26/2024 9:00:20 PM
118	I2434544-01 6020TL	2	58	3	1	6/26/2024 9:05:01 PM
119	CCV	0	9	3	1	6/26/2024 9:09:42 PM
120	CCB	0	10	3	1	6/26/2024 9:14:25 PM
121	CCV	0	9	3	1	6/26/2024 9:19:09 PM
122	CCB	0	10	3	1	6/26/2024 9:23:52 PM
123	CCB	0	10	3	1	

METALS ELN REPORT

Workgroup: WG1939188

Digestion

Prep Method	Acid Type 1	Acid 1 Lot	Acid Type 2	Acid 2 Lot	Spike Type	Lims Spike Lot	Spike Lot	Post Spike Spikelot	Spike Lot	Pipette Id
EPA 3005A	1:1 HNO3	tHNO3242519 2000MGM	1:1 HCl	tHCL242305 2216FAO	METALS	METSPIKE2	FPS,IPS,MIX	METPSMS	FPS,IPS,MIX	140, 326

Additional Reagent/Std

Sample/ Type	Digestion Date	Analyst	Sample Vol ml	Ph	Spike Amt ml	Start Date/Time	Hot Block Unit	Temperature (C)	Stop Date/Time	Final Vol	Comments
L2434679-01 WATER	06/25/24 17:30	Maisie Mcqueen	50	<2		06/25/24 17:30	9	94.5	06/25/24 20:30	50	
L2434679-02 WATER	06/25/24 17:30	Maisie Mcqueen	50	<2		06/25/24 17:30	9	94.5	06/25/24 20:30	50	
L2434679-03 WATER	06/25/24 17:30	Maisie Mcqueen	50	<2		06/25/24 17:30	9	94.5	06/25/24 20:30	50	
L2434679-04 WATER	06/25/24 17:30	Maisie Mcqueen	50	<2		06/25/24 17:30	9	94.5	06/25/24 20:30	50	
L2434679-05 WATER	06/25/24 17:30	Maisie Mcqueen	50	<2		06/25/24 17:30	9	94.5	06/25/24 20:30	50	
L2434679-06 WATER	06/25/24 17:30	Maisie Mcqueen	50	<2		06/25/24 17:30	9	94.5	06/25/24 20:30	50	
L2434679-07 WATER	06/25/24 17:30	Maisie Mcqueen	50	<2		06/25/24 17:30	9	94.5	06/25/24 20:30	50	
L2434679-08 WATER	06/25/24 17:30	Maisie Mcqueen	50	<2		06/25/24 17:30	9	94.5	06/25/24 20:30	50	
L2434679-09 WATER	06/25/24 17:30	Maisie Mcqueen	50	<2		06/25/24 17:30	9	94.5	06/25/24 20:30	50	
L2434679-10 WATER	06/25/24 17:30	Maisie Mcqueen	50	<2		06/25/24 17:30	9	94.5	06/25/24 20:30	50	
L2434679-11 WATER	06/25/24 17:30	Maisie Mcqueen	50	<2		06/25/24 17:30	9	94.5	06/25/24 20:30	50	
L2434679-12 WATER	06/25/24 17:30	Maisie Mcqueen	50	<2		06/25/24 17:30	9	94.5	06/25/24 20:30	50	
L2434679-14 WATER	06/25/24 17:30	Maisie Mcqueen	50	<2		06/25/24 17:30	9	94.5	06/25/24 20:30	50	
L2434740-01 SAMP	06/25/24 17:30	Maisie Mcqueen	50	<2		06/25/24 17:30	9	94.5	06/25/24 20:30	50	

Reported: 27-JUN-24 09:08 AM

METALS ELN REPORT

Workgroup: WG1939188

Sample/ Type	Digestion Date	Analyst	Sample Vol ml	Ph	Spike Amt ml	Start Date/Time	Hot Block Unit	Temperature (C)	Stop Date/Time	Final Vol	Comments
L2434740-02 SAMP	06/25/24 17:30	Maisie Mcqueen	50	<2		06/25/24 17:30	9	94.5	06/25/24 20:30	50	
L2434740-03 SAMP	06/25/24 17:30	Maisie Mcqueen	50	<2		06/25/24 17:30	9	94.5	06/25/24 20:30	50	
L2434740-04 SAMP	06/25/24 17:30	Maisie Mcqueen	50	<2		06/25/24 17:30	9	94.5	06/25/24 20:30	50	
L2434740-05 SAMP	06/25/24 17:30	Maisie Mcqueen	50	<2		06/25/24 17:30	9	94.5	06/25/24 20:30	50	
L2434740-06 SAMP	06/25/24 17:30	Maisie Mcqueen	50	<2		06/25/24 17:30	9	94.5	06/25/24 20:30	50	
WG1939188-1 BLANK	06/25/24 17:30	Maisie Mcqueen	50	<2		06/25/24 17:30	9	94.5	06/25/24 20:30	50	FM2425180315 FAO
WG1939188-2 LCS	06/25/24 17:30	Maisie Mcqueen	50	<2	0.5	06/25/24 17:30	9	94.5	06/25/24 20:30	50	IPS52423050022HCR
WG1939188-3 MS	06/25/24 17:30	Maisie Mcqueen	50	<2	0.5	06/25/24 17:30	9	94.5	06/25/24 20:30	50	ELN: HCR
WG1939188-4 MSD	06/25/24 17:30	Maisie Mcqueen	50	<2	0.5	06/25/24 17:30	9	94.5	06/25/24 20:30	50	
WG1939188-5 PS	06/25/24 17:30	Maisie Mcqueen	50	<2		06/25/24 17:30	9	94.5	06/25/24 20:30	50	
WG1939188-6 SERDIL	06/25/24 17:30	Maisie Mcqueen	50	<2		06/25/24 17:30	9	94.5	06/25/24 20:30	50	

Reagent	Actual Volume	Units
1:1 Hydrochloric Acid (H	.5	ml
1:1 Nitric Acid (HNO3)	1	ml

Reported: 27-JUN-24 09:08 AM

METALS ELN REPORT

Workgroup: WG1939202

Digestion

Prep Method	Acid Type 1	Acid 1 Lot	Acid Type 2	Acid 2 Lot	Spike Type	Lims Spike Lot	Spike Lot	Post Spike Spikelot	Spike Lot	Pipette Id
EPA 3005A	1:1 HNO3	tHNO3242519 2000MGM	1:1 HCl	tHCL242305 2216FAO	METALS	METSPIKE2	FPS,IPS,MIX	METPSMS	FPS,IPS,MIX	140, 326

Additional Reagent/Std

Sample/ Type	Digestion Date	Analyst	Lab Filtration Date	Sample Vol	Ph	Spike Amt ml	Start Date/Time	Hot Block Unit	Temperature (C)	Stop Date/Time	Final Vol ml	Comments
L2434679-01 WATER	06/26/24 03:07	Christine Hamor	NA	50	<2		06/26/24 03:07	7	94.2	06/26/24 06:07	50	CONTAINER M
L2434679-02 WATER	06/26/24 03:07	Christine Hamor	NA	50	<2		06/26/24 03:07	7	94.2	06/26/24 06:07	50	CONTAINER M
L2434679-03 WATER	06/26/24 03:07	Christine Hamor	NA	50	<2		06/26/24 03:07	7	94.2	06/26/24 06:07	50	CONTAINER M
L2434679-04 WATER	06/26/24 03:07	Christine Hamor	NA	50	<2		06/26/24 03:07	7	94.2	06/26/24 06:07	50	CONTAINER M
L2434679-05 WATER	06/26/24 03:07	Christine Hamor	NA	50	<2		06/26/24 03:07	7	94.2	06/26/24 06:07	50	CONTAINER M
L2434679-06 WATER	06/26/24 03:07	Christine Hamor	NA	50	<2		06/26/24 03:07	7	94.2	06/26/24 06:07	50	CONTAINER M
L2434679-07 WATER	06/26/24 03:07	Christine Hamor	NA	50	<2		06/26/24 03:07	7	94.2	06/26/24 06:07	50	CONTAINER M
L2434679-08 WATER	06/26/24 03:07	Christine Hamor	NA	50	<2		06/26/24 03:07	7	94.2	06/26/24 06:07	50	CONTAINER M
L2434679-09 WATER	06/26/24 03:07	Christine Hamor	NA	50	<2		06/26/24 03:07	7	94.2	06/26/24 06:07	50	CONTAINER M
L2434679-10 WATER	06/26/24 03:07	Christine Hamor	NA	50	<2		06/26/24 03:07	7	94.2	06/26/24 06:07	50	CONTAINER M
L2434679-11 WATER	06/26/24 03:07	Christine Hamor	NA	50	<2		06/26/24 03:07	7	94.2	06/26/24 06:07	50	CONTAINER M
L2434679-12 WATER	06/26/24 03:07	Christine Hamor	NA	50	<2		06/26/24 03:07	7	94.2	06/26/24 06:07	50	CONTAINER M
L2434679-14 WATER	06/26/24 03:07	Christine Hamor	NA	50	<2		06/26/24 03:07	7	94.2	06/26/24 06:07	50	CONTAINER M
L2434790-01 SAMP	06/26/24 03:07	Christine Hamor	NA	50	<2		06/26/24 03:07	7	94.2	06/26/24 06:07	50	CONTAINER E

Reported: 27-JUN-24 09:08 AM

METALS ELN REPORT

Workgroup: WG1939202

Sample/ Type	Digestion Date	Analyst	Lab Filtration Date	Sample Vol	Ph	Spike Amt ml	Start Date/Time	Hot Block Unit	Temperature (C)	Stop Date/Time	Final Vol ml	Comments
L2434790-02 SAMP	06/26/24 03:07	Christine Hamor	NA	50	<2		06/26/24 03:07	7	94.2	06/26/24 06:07	50	CONTAINER E
L2434790-03 SAMP	06/26/24 03:07	Christine Hamor	NA	50	<2		06/26/24 03:07	7	94.2	06/26/24 06:07	50	CONTAINER E
L2434790-04 SAMP	06/26/24 03:07	Christine Hamor	NA	50	<2		06/26/24 03:07	7	94.2	06/26/24 06:07	50	CONTAINER E
L2434790-05 SAMP	06/26/24 03:07	Christine Hamor	NA	50	<2		06/26/24 03:07	7	94.2	06/26/24 06:07	50	CONTAINER E
L2434790-06 SAMP	06/26/24 03:07	Christine Hamor	NA	50	<2		06/26/24 03:07	7	94.2	06/26/24 06:07	50	CONTAINER E
WG1939202-1 BLANK	06/26/24 03:07	Christine Hamor	NA	50	<2		06/26/24 03:07	7	94.2	06/26/24 06:07	50	FM2425180315 FAO
WG1939202-2 LCS	06/26/24 03:07	Christine Hamor	NA	50	<2	.5	06/26/24 03:07	7	94.2	06/26/24 06:07	50	IPS52423050022HCR
WG1939202-3 MS	06/26/24 03:07	Christine Hamor	NA	50	<2	.5	06/26/24 03:07	7	94.2	06/26/24 06:07	50	
WG1939202-4 MSD	06/26/24 03:07	Christine Hamor	NA	50	<2	.5	06/26/24 03:07	7	94.2	06/26/24 06:07	50	ELN check: ADG
WG1939202-5 PS	06/26/24 03:07	Christine Hamor	NA	50	<2		06/26/24 03:07	7	94.2	06/26/24 06:07	50	
WG1939202-6 SERDIL	06/26/24 03:07	Christine Hamor	NA	50	<2		06/26/24 03:07	7	94.2	06/26/24 06:07	50	

Reagent	Actual Volume	Units
1:1 Hydrochloric Acid (H	.5	ml
1:1 Nitric Acid (HNO3)	1	ml

Reported: 27-JUN-24 09:08 AM

Inorganic Data
(Mercury Analysis)

Form 1
METALS

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Lab ID	: L2434679-01	**Date Collected**	: 06/19/24 09:30
Client ID	: MW-3A	**Date Received**	: 06/19/24
Sample Location	: MANORVILLE, NY	**Date Analyzed**	: 06/26/24 16:01
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,7470A	**Analyst**	: JWN
Lab File ID	: WG1939468.pdf	**Instrument ID**	: NIC1
Sample Amount	: 25ml	**%Solids**	: N/A
Digestion Method	: EPA 7470A	**Date Digested**	: 06/25/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7439-97-6	Mercury, Total	ND	0.00020	0.00009	U

Form 1
METALS

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Lab ID	: L2434679-02	**Date Collected**	: 06/18/24 16:35
Client ID	: MW-6A	**Date Received**	: 06/19/24
Sample Location	: MANORVILLE, NY	**Date Analyzed**	: 06/26/24 16:04
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,7470A	**Analyst**	: JWN
Lab File ID	: WG1939468.pdf	**Instrument ID**	: NIC1
Sample Amount	: 25ml	**%Solids**	: N/A
Digestion Method	: EPA 7470A	**Date Digested**	: 06/25/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7439-97-6	Mercury, Total	ND	0.00020	0.00009	U

Form 1
METALS

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Lab ID	: L2434679-03	**Date Collected**	: 06/18/24 14:50
Client ID	: MW-6B	**Date Received**	: 06/19/24
Sample Location	: MANORVILLE, NY	**Date Analyzed**	: 06/26/24 15:51
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,7470A	**Analyst**	: JWN
Lab File ID	: WG1939468.pdf	**Instrument ID**	: NIC1
Sample Amount	: 25ml	**%Solids**	: N/A
Digestion Method	: EPA 7470A	**Date Digested**	: 06/25/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7439-97-6	Mercury, Total	ND	0.00020	0.00009	U

Form 1
METALS

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Lab ID	: L2434679-04	**Date Collected**	: 06/18/24 14:49
Client ID	: MW-6C	**Date Received**	: 06/19/24
Sample Location	: MANORVILLE, NY	**Date Analyzed**	: 06/26/24 16:07
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,7470A	**Analyst**	: JWN
Lab File ID	: WG1939468.pdf	**Instrument ID**	: NIC1
Sample Amount	: 25ml	**%Solids**	: N/A
Digestion Method	: EPA 7470A	**Date Digested**	: 06/25/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7439-97-6	Mercury, Total	ND	0.00020	0.00009	U

Form 1
METALS

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Lab ID	: L2434679-05	**Date Collected**	: 06/18/24 10:15
Client ID	: MW-7A	**Date Received**	: 06/19/24
Sample Location	: MANORVILLE, NY	**Date Analyzed**	: 06/26/24 16:11
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,7470A	**Analyst**	: JWN
Lab File ID	: WG1939468.pdf	**Instrument ID**	: NIC1
Sample Amount	: 25ml	**%Solids**	: N/A
Digestion Method	: EPA 7470A	**Date Digested**	: 06/25/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7439-97-6	Mercury, Total	ND	0.00020	0.00009	U

Form 1
METALS

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Lab ID	: L2434679-06	**Date Collected**	: 06/18/24 12:05
Client ID	: MW-7B	**Date Received**	: 06/19/24
Sample Location	: MANORVILLE, NY	**Date Analyzed**	: 06/26/24 16:14
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,7470A	**Analyst**	: JWN
Lab File ID	: WG1939468.pdf	**Instrument ID**	: NIC1
Sample Amount	: 25ml	**%Solids**	: N/A
Digestion Method	: EPA 7470A	**Date Digested**	: 06/25/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7439-97-6	Mercury, Total	ND	0.00020	0.00009	U

Form 1
METALS

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Lab ID	: L2434679-07	**Date Collected**	: 06/18/24 12:12
Client ID	: MW-7C	**Date Received**	: 06/19/24
Sample Location	: MANORVILLE, NY	**Date Analyzed**	: 06/26/24 16:24
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,7470A	**Analyst**	: JWN
Lab File ID	: WG1939468.pdf	**Instrument ID**	: NIC1
Sample Amount	: 25ml	**%Solids**	: N/A
Digestion Method	: EPA 7470A	**Date Digested**	: 06/25/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7439-97-6	Mercury, Total	ND	0.00020	0.00009	U

Form 1
METALS

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Lab ID	: L2434679-08	**Date Collected**	: 06/18/24 16:47
Client ID	: MW-8A	**Date Received**	: 06/19/24
Sample Location	: MANORVILLE, NY	**Date Analyzed**	: 06/26/24 16:27
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,7470A	**Analyst**	: JWN
Lab File ID	: WG1939468.pdf	**Instrument ID**	: NIC1
Sample Amount	: 25ml	**%Solids**	: N/A
Digestion Method	: EPA 7470A	**Date Digested**	: 06/25/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7439-97-6	Mercury, Total	ND	0.00020	0.00009	U

Form 1
METALS

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Lab ID	: L2434679-09	**Date Collected**	: 06/18/24 18:25
Client ID	: MW-8B	**Date Received**	: 06/19/24
Sample Location	: MANORVILLE, NY	**Date Analyzed**	: 06/26/24 16:30
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,7470A	**Analyst**	: JWN
Lab File ID	: WG1939468.pdf	**Instrument ID**	: NIC1
Sample Amount	: 25ml	**%Solids**	: N/A
Digestion Method	: EPA 7470A	**Date Digested**	: 06/25/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7439-97-6	Mercury, Total	ND	0.00020	0.00009	U

Form 1
METALS

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Lab ID	: L2434679-10	**Date Collected**	: 06/19/24 11:00
Client ID	: MW-9B	**Date Received**	: 06/19/24
Sample Location	: MANORVILLE, NY	**Date Analyzed**	: 06/26/24 16:34
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,7470A	**Analyst**	: JWN
Lab File ID	: WG1939468.pdf	**Instrument ID**	: NIC1
Sample Amount	: 25ml	**%Solids**	: N/A
Digestion Method	: EPA 7470A	**Date Digested**	: 06/25/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7439-97-6	Mercury, Total	ND	0.00020	0.00009	U

Form 1
METALS

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Lab ID	: L2434679-11	**Date Collected**	: 06/18/24 00:00
Client ID	: DUP	**Date Received**	: 06/19/24
Sample Location	: MANORVILLE, NY	**Date Analyzed**	: 06/26/24 16:37
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,7470A	**Analyst**	: JWN
Lab File ID	: WG1939468.pdf	**Instrument ID**	: NIC1
Sample Amount	: 25ml	**%Solids**	: N/A
Digestion Method	: EPA 7470A	**Date Digested**	: 06/25/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7439-97-6	Mercury, Total	ND	0.00020	0.00009	U

Form 1
METALS

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Lab ID	: L2434679-12	**Date Collected**	: 06/18/24 19:00
Client ID	: EB	**Date Received**	: 06/19/24
Sample Location	: MANORVILLE, NY	**Date Analyzed**	: 06/26/24 16:40
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,7470A	**Analyst**	: JWN
Lab File ID	: WG1939468.pdf	**Instrument ID**	: NIC1
Sample Amount	: 25ml	**%Solids**	: N/A
Digestion Method	: EPA 7470A	**Date Digested**	: 06/25/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7439-97-6	Mercury, Total	ND	0.00020	0.00009	U

Form 1
METALS

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Lab ID	: L2434679-14	**Date Collected**	: 06/18/24 18:07
Client ID	: MW-8B2	**Date Received**	: 06/19/24
Sample Location	: MANORVILLE, NY	**Date Analyzed**	: 06/26/24 16:44
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,7470A	**Analyst**	: JWN
Lab File ID	: WG1939468.pdf	**Instrument ID**	: NIC1
Sample Amount	: 25ml	**%Solids**	: N/A
Digestion Method	: EPA 7470A	**Date Digested**	: 06/25/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7439-97-6	Mercury, Total	ND	0.00020	0.00009	U

Form 1
METALS

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Lab ID	: WG1939190-1	**Date Collected**	: NA
Client ID	: WG1939190-1BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 06/26/24 15:44
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,7470A	**Analyst**	: JWN
Lab File ID	: WG1939468.pdf	**Instrument ID**	: NIC1
Sample Amount	: 25ml	**%Solids**	: N/A
Digestion Method	: EPA 7470A	**Date Digested**	: 06/25/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7439-97-6	Mercury, Total	ND	0.00020	0.00009	U

Form 1
METALS

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Lab ID	: L2434679-01	**Date Collected**	: 06/19/24 09:30
Client ID	: MW-3A	**Date Received**	: 06/19/24
Sample Location	: MANORVILLE, NY	**Date Analyzed**	: 06/26/24 16:47
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,7470A	**Analyst**	: MJR
Lab File ID	: WG1939635.pdf	**Instrument ID**	: NIC2
Sample Amount	: 25ml	**%Solids**	: N/A
Digestion Method	: EPA 7470A	**Date Digested**	: 06/26/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7439-97-6	Mercury, Dissolved	ND	0.00020	0.00009	U

Form 1
METALS

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Lab ID	: L2434679-02	**Date Collected**	: 06/18/24 16:35
Client ID	: MW-6A	**Date Received**	: 06/19/24
Sample Location	: MANORVILLE, NY	**Date Analyzed**	: 06/26/24 16:50
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,7470A	**Analyst**	: MJR
Lab File ID	: WG1939635.pdf	**Instrument ID**	: NIC2
Sample Amount	: 25ml	**%Solids**	: N/A
Digestion Method	: EPA 7470A	**Date Digested**	: 06/26/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7439-97-6	Mercury, Dissolved	ND	0.00020	0.00009	U

Form 1
METALS

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Lab ID	: L2434679-03	**Date Collected**	: 06/18/24 14:50
Client ID	: MW-6B	**Date Received**	: 06/19/24
Sample Location	: MANORVILLE, NY	**Date Analyzed**	: 06/26/24 16:37
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,7470A	**Analyst**	: MJR
Lab File ID	: WG1939635.pdf	**Instrument ID**	: NIC2
Sample Amount	: 25ml	**%Solids**	: N/A
Digestion Method	: EPA 7470A	**Date Digested**	: 06/26/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7439-97-6	Mercury, Dissolved	ND	0.00020	0.00009	U

Form 1
METALS

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Lab ID	: L2434679-04	**Date Collected**	: 06/18/24 14:49
Client ID	: MW-6C	**Date Received**	: 06/19/24
Sample Location	: MANORVILLE, NY	**Date Analyzed**	: 06/26/24 16:53
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,7470A	**Analyst**	: MJR
Lab File ID	: WG1939635.pdf	**Instrument ID**	: NIC2
Sample Amount	: 25ml	**%Solids**	: N/A
Digestion Method	: EPA 7470A	**Date Digested**	: 06/26/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7439-97-6	Mercury, Dissolved	ND	0.00020	0.00009	U

Form 1
METALS

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Lab ID	: L2434679-05	**Date Collected**	: 06/18/24 10:15
Client ID	: MW-7A	**Date Received**	: 06/19/24
Sample Location	: MANORVILLE, NY	**Date Analyzed**	: 06/26/24 17:07
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,7470A	**Analyst**	: MJR
Lab File ID	: WG1939635.pdf	**Instrument ID**	: NIC2
Sample Amount	: 25ml	**%Solids**	: N/A
Digestion Method	: EPA 7470A	**Date Digested**	: 06/26/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7439-97-6	Mercury, Dissolved	ND	0.00020	0.00009	U

Form 1
METALS

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Lab ID	: L2434679-06	**Date Collected**	: 06/18/24 12:05
Client ID	: MW-7B	**Date Received**	: 06/19/24
Sample Location	: MANORVILLE, NY	**Date Analyzed**	: 06/26/24 17:11
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,7470A	**Analyst**	: MJR
Lab File ID	: WG1939635.pdf	**Instrument ID**	: NIC2
Sample Amount	: 25ml	**%Solids**	: N/A
Digestion Method	: EPA 7470A	**Date Digested**	: 06/26/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7439-97-6	Mercury, Dissolved	ND	0.00020	0.00009	U

Form 1
METALS

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Lab ID	: L2434679-07	**Date Collected**	: 06/18/24 12:12
Client ID	: MW-7C	**Date Received**	: 06/19/24
Sample Location	: MANORVILLE, NY	**Date Analyzed**	: 06/26/24 17:14
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,7470A	**Analyst**	: MJR
Lab File ID	: WG1939635.pdf	**Instrument ID**	: NIC2
Sample Amount	: 25ml	**%Solids**	: N/A
Digestion Method	: EPA 7470A	**Date Digested**	: 06/26/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7439-97-6	Mercury, Dissolved	ND	0.00020	0.00009	U

Form 1
METALS

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Lab ID	: L2434679-08	**Date Collected**	: 06/18/24 16:47
Client ID	: MW-8A	**Date Received**	: 06/19/24
Sample Location	: MANORVILLE, NY	**Date Analyzed**	: 06/26/24 17:17
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,7470A	**Analyst**	: MJR
Lab File ID	: WG1939635.pdf	**Instrument ID**	: NIC2
Sample Amount	: 25ml	**%Solids**	: N/A
Digestion Method	: EPA 7470A	**Date Digested**	: 06/26/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7439-97-6	Mercury, Dissolved	ND	0.00020	0.00009	U

Form 1
METALS

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Lab ID	: L2434679-09	**Date Collected**	: 06/18/24 18:25
Client ID	: MW-8B	**Date Received**	: 06/19/24
Sample Location	: MANORVILLE, NY	**Date Analyzed**	: 06/26/24 17:21
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,7470A	**Analyst**	: MJR
Lab File ID	: WG1939635.pdf	**Instrument ID**	: NIC2
Sample Amount	: 25ml	**%Solids**	: N/A
Digestion Method	: EPA 7470A	**Date Digested**	: 06/26/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7439-97-6	Mercury, Dissolved	ND	0.00020	0.00009	U

Form 1
METALS

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Lab ID	: L2434679-10	**Date Collected**	: 06/19/24 11:00
Client ID	: MW-9B	**Date Received**	: 06/19/24
Sample Location	: MANORVILLE, NY	**Date Analyzed**	: 06/26/24 17:24
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,7470A	**Analyst**	: MJR
Lab File ID	: WG1939635.pdf	**Instrument ID**	: NIC2
Sample Amount	: 25ml	**%Solids**	: N/A
Digestion Method	: EPA 7470A	**Date Digested**	: 06/26/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7439-97-6	Mercury, Dissolved	ND	0.00020	0.00009	U

Form 1
METALS

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Lab ID	: L2434679-11	**Date Collected**	: 06/18/24 00:00
Client ID	: DUP	**Date Received**	: 06/19/24
Sample Location	: MANORVILLE, NY	**Date Analyzed**	: 06/26/24 17:27
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,7470A	**Analyst**	: MJR
Lab File ID	: WG1939635.pdf	**Instrument ID**	: NIC2
Sample Amount	: 25ml	**%Solids**	: N/A
Digestion Method	: EPA 7470A	**Date Digested**	: 06/26/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7439-97-6	Mercury, Dissolved	ND	0.00020	0.00009	U

Form 1
METALS

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Lab ID	: L2434679-12	**Date Collected**	: 06/18/24 19:00
Client ID	: EB	**Date Received**	: 06/19/24
Sample Location	: MANORVILLE, NY	**Date Analyzed**	: 06/26/24 17:31
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,7470A	**Analyst**	: MJR
Lab File ID	: WG1939635.pdf	**Instrument ID**	: NIC2
Sample Amount	: 25ml	**%Solids**	: N/A
Digestion Method	: EPA 7470A	**Date Digested**	: 06/26/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7439-97-6	Mercury, Dissolved	ND	0.00020	0.00009	U

Form 1
METALS

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Lab ID	: L2434679-14	**Date Collected**	: 06/18/24 18:07
Client ID	: MW-8B2	**Date Received**	: 06/19/24
Sample Location	: MANORVILLE, NY	**Date Analyzed**	: 06/26/24 17:34
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,7470A	**Analyst**	: MJR
Lab File ID	: WG1939635.pdf	**Instrument ID**	: NIC2
Sample Amount	: 25ml	**%Solids**	: N/A
Digestion Method	: EPA 7470A	**Date Digested**	: 06/26/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7439-97-6	Mercury, Dissolved	ND	0.00020	0.00009	U

Form 1
METALS

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Lab ID	: WG1939206-1	**Date Collected**	: NA
Client ID	: WG1939206-1BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 06/26/24 16:30
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,7470A	**Analyst**	: MJR
Lab File ID	: WG1939635.pdf	**Instrument ID**	: NIC2
Sample Amount	: 25ml	**%Solids**	: N/A
Digestion Method	: EPA 7470A	**Date Digested**	: 06/26/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7439-97-6	Mercury, Dissolved	ND	0.00020	0.00009	U

Form 2A
Initial and Continuing Calibration Verification

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Instrument ID	: NIC1	**Units**	: mg/l

		Initial Calibration			Continuing Calibration(s)						
Lab ID	:	R1845962-1			R1845962-3			R1845962-5		R1845962-7	
Date Analyzed	:	06/26/24 07:02			06/26/24 08:19			06/26/24 09:10		06/26/24 10:05	
Parameter		**True**	**Found**	**%R**	**True**	**Found**	**%R**	**Found**	**%R**	**Found**	**%R**
Mercury		0.00300	0.0028	92	0.0050	0.00490	98	0.00490	97	0.00490	99

Acceptance Criteria:

ICV:	95-105%	(Methods 200.7, 245.1)
	90-110%	(Methods 200.8, 6010, 6020, 7470, 7471, 7474)
	85-115%	(Method 1631)
CCV:	90-110%	(Methods 200.7, 245.1, 6010, 6020, 7474)
	85-115%	(Methods 200.8, 1631)
	80-120%	(Methods 7470, 7471)

Form 2A
Initial and Continuing Calibration Verification

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Instrument ID	: NIC1	**Units**	: mg/l

	Initial Calibration			Continuing Calibration(s)						
Lab ID :				R1845962-9			R1845962-11		R1845962-13	
Date Analyzed :				06/26/24 10:45			06/26/24 12:11		06/26/24 12:51	
Parameter	**True**	**Found**	**%R**	**True**	**Found**	**%R**	**Found**	**%R**	**Found**	**%R**
Mercury				**0.0050**	**0.00500**	**101**	**0.00510**	**102**	**0.00490**	**98**

Acceptance Criteria:

ICV:	**95-105%**	**(Methods 200.7, 245.1)**
	90-110%	**(Methods 200.8, 6010, 6020, 7470, 7471, 7474)**
	85-115%	**(Method 1631)**
CCV:	**90-110%**	**(Methods 200.7, 245.1, 6010, 6020, 7474)**
	85-115%	**(Methods 200.8, 1631)**
	80-120%	**(Methods 7470, 7471)**

Form 2A
Initial and Continuing Calibration Verification

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Instrument ID	: NIC1	**Units**	: mg/l

	Initial Calibration			Continuing Calibration(s)						
Lab ID :				R1845962-15			R1845962-17		R1845962-19	
Date Analyzed :				06/26/24 13:45			06/26/24 15:17		06/26/24 16:17	
Parameter	**True**	**Found**	**%R**	**True**	**Found**	**%R**	**Found**	**%R**	**Found**	**%R**
Mercury				**0.0050**	**0.00480**	**96**	**0.00480**	**96**	**0.00480**	**96**

Acceptance Criteria:

ICV:	**95-105%**	**(Methods 200.7, 245.1)**
	90-110%	**(Methods 200.8, 6010, 6020, 7470, 7471, 7474)**
	85-115%	**(Method 1631)**
CCV:	**90-110%**	**(Methods 200.7, 245.1, 6010, 6020, 7474)**
	85-115%	**(Methods 200.8, 1631)**
	80-120%	**(Methods 7470, 7471)**

Form 2A
Initial and Continuing Calibration Verification

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Instrument ID	: NIC1	**Units**	: mg/l

	Initial Calibration			Continuing Calibration(s)						
Lab ID :				R1845962-21						
Date Analyzed :				06/26/24 16:57						
Parameter	**True**	**Found**	**%R**	**True**	**Found**	**%R**	**Found**	**%R**	**Found**	**%R**
Mercury				0.0050	0.00480	97				

Acceptance Criteria:

ICV:	**95-105%**	**(Methods 200.7, 245.1)**
	90-110%	**(Methods 200.8, 6010, 6020, 7470, 7471, 7474)**
	85-115%	**(Method 1631)**
CCV:	**90-110%**	**(Methods 200.7, 245.1, 6010, 6020, 7474)**
	85-115%	**(Methods 200.8, 1631)**
	80-120%	**(Methods 7470, 7471)**

Form 2A
Initial and Continuing Calibration Verification

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Instrument ID	: NIC2	**Units**	: mg/l

		Initial Calibration			Continuing Calibration(s)						
Lab ID	:	R1845999-1			R1845999-3			R1845999-5		R1845999-7	
Date Analyzed	:	06/26/24 10:32			06/26/24 11:16			06/26/24 13:19		06/26/24 14:28	
Parameter		**True**	**Found**	**%R**	**True**	**Found**	**%R**	**Found**	**%R**	**Found**	**%R**
Mercury		0.00300	0.0029	97	0.0050	0.00500	100	0.00500	100	0.00480	97

Acceptance Criteria:

ICV:	95-105%	(Methods 200.7, 245.1)
	90-110%	(Methods 200.8, 6010, 6020, 7470, 7471, 7474)
	85-115%	(Method 1631)
CCV:	90-110%	(Methods 200.7, 245.1, 6010, 6020, 7474)
	85-115%	(Methods 200.8, 1631)
	80-120%	(Methods 7470, 7471)

Form 2A
Initial and Continuing Calibration Verification

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Instrument ID	: NIC2	**Units**	: mg/l

	Initial Calibration			Continuing Calibration(s)						
Lab ID :				R1845999-9			R1845999-11		R1845999-13	
Date Analyzed :				06/26/24 16:17			06/26/24 16:57		06/26/24 17:40	
Parameter	**True**	**Found**	**%R**	**True**	**Found**	**%R**	**Found**	**%R**	**Found**	**%R**
Mercury				0.0050	0.00500	99	0.00490	98	0.00470	94

Acceptance Criteria:

ICV:	95-105%	(Methods 200.7, 245.1)
	90-110%	(Methods 200.8, 6010, 6020, 7470, 7471, 7474)
	85-115%	(Method 1631)
CCV:	90-110%	(Methods 200.7, 245.1, 6010, 6020, 7474)
	85-115%	(Methods 200.8, 1631)
	80-120%	(Methods 7470, 7471)

Form 3
Blanks

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Instrument ID	: NIC1		

	Initial Calibration Blank	Continuing Calibration Blank(s)			Preparation Blank
Lab ID :	R1845962-2	R1845962-4	R1845962-6	R1845962-8	WG1939190-1
Date Analyzed :	06/26/24 07:06	06/26/24 08:23	06/26/24 09:14	06/26/24 10:09	06/26/24 15:44
Parameter	mg/l Q	mg/l Q	mg/l Q	mg/l Q	mg/l Q
Mercury	0.0000915 U	0.0000915 U	0.0000915 U	0.0000915 U	0.00009 U

Form 3
Blanks

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Instrument ID	: NIC1		

	Initial Calibration Blank		Continuing Calibration Blank(s)						Preparation Blank	
Lab ID :			R1845962-10		R1845962-12		R1845962-14			
Date Analyzed :			06/26/24 10:48		06/26/24 12:14		06/26/24 12:54			
Parameter	mg/l	Q	mg/l	Q	mg/l	Q	mg/l	Q		Q
Mercury			0.0000915	U	0.0000915	U	0.0000915	U		

Form 3
Blanks

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Instrument ID	: NIC1		

	Initial Calibration Blank		Continuing Calibration Blank(s)						Preparation Blank	
Lab ID :			R1845962-16		R1845962-18		R1845962-20			
Date Analyzed :			06/26/24 13:49		06/26/24 15:20		06/26/24 16:21			
Parameter	mg/l	Q	mg/l	Q	mg/l	Q	mg/l	Q		Q
Mercury			0.0000915	U	0.0000915	U	0.0000915	U		

Form 3
Blanks

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Instrument ID	: NIC1		

	Initial Calibration Blank		Continuing Calibration Blank(s)						Preparation Blank	
Lab ID :			R1845962-22							
Date Analyzed :			06/26/24 17:00							
Parameter	mg/l	Q	mg/l	Q	mg/l	Q	mg/l	Q		Q
Mercury			0.0000915	U						

Form 3
Blanks

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Instrument ID	: NIC2		

	Initial Calibration Blank	Continuing Calibration Blank(s)			Preparation Blank
Lab ID :	R1845999-2	R1845999-4	R1845999-6	R1845999-8	WG1939206-1
Date Analyzed :	06/26/24 10:36	06/26/24 11:19	06/26/24 13:22	06/26/24 14:31	06/26/24 16:30
Parameter	mg/l Q	mg/l Q	mg/l Q	mg/l Q	mg/l Q
Mercury	0.0000915 U	0.0000915 U	0.0000915 U	0.0000915 U	0.00009 U

Form 3
Blanks

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Instrument ID	: NIC2		

	Initial Calibration Blank		Continuing Calibration Blank(s)						Preparation Blank	
Lab ID :			R1845999-10		R1845999-12		R1845999-14			
Date Analyzed :			06/26/24 16:20		06/26/24 17:00		06/26/24 17:44			
Parameter	mg/l	Q	mg/l	Q	mg/l	Q	mg/l	Q		Q
Mercury			0.0000915	U	0.0000915	U	0.0000915	U		

Form 5a
Matrix Spike

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Client Sample ID	: MW-6B	**Matrix**	: WATER
Lab Sample ID	: L2434679-03		
Matrix Spike	: WG1939190-3	**MS Analysis Date**	: 06/26/24 15:54
Matrix Spike Dup	: WG1939190-4	**MSD Analysis Date**	: 06/26/24 15:57

		Matrix Spike Sample			Matrix Spike Duplicate					
Parameter	Sample Conc. (mg/l)	Spike Added (mg/l)	Spike Conc. (mg/l)	%R	Spike Added (mg/l)	Spike Conc. (mg/l)	%R	RPD	Recovery Limits	RPD Limit
Mercury, Total	ND	0.005	0.00466	93	0.005	0.00470	94	1	75-125	20

Form 5a
Matrix Spike

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Client Sample ID	: MW-6B	**Matrix**	: WATER
Lab Sample ID	: L2434679-03		
Matrix Spike	: WG1939206-3	**MS Analysis Date**	: 06/26/24 16:40
Matrix Spike Dup	: WG1939206-4	**MSD Analysis Date**	: 06/26/24 16:43

		Matrix Spike Sample			Matrix Spike Duplicate					
Parameter	Sample Conc. (mg/l)	Spike Added (mg/l)	Spike Conc. (mg/l)	%R	Spike Added (mg/l)	Spike Conc. (mg/l)	%R	RPD	Recovery Limits	RPD Limit
Mercury, Dissolved	ND	0.005	0.00500	100	0.005	0.00495	99	1	75-125	20

Form 7
Laboratory Control Sample

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Client Sample ID	: NA	**Matrix**	: WATER
Lab Sample ID	: WG1939190-2	**LCS Analysis Date**	: 06/26/24 15:48
Dup Sample ID	:	**LCSD Analysis Date**	:

	Laboratory Control Sample			Laboratory Control Duplicate					
Parameter	**True (mg/l)**	**Found (mg/l)**	**%R**	**True (mg/l)**	**Found (mg/l)**	**%R**	**RPD**	**Recovery Limits**	**RPD Limit**
Mercury, Total	**0.00100**	**0.000940**	**95.**					**80-120**	**20**

Form 7
Laboratory Control Sample

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Client Sample ID	: NA	**Matrix**	: WATER
Lab Sample ID	: WG1939206-2	**LCS Analysis Date**	: 06/26/24 16:33
Dup Sample ID	:	**LCSD Analysis Date**	:

	Laboratory Control Sample			Laboratory Control Duplicate					
Parameter	**True (mg/l)**	**Found (mg/l)**	**%R**	**True (mg/l)**	**Found (mg/l)**	**%R**	**RPD**	**Recovery Limits**	**RPD Limit**
Mercury, Dissolved	**0.00100**	**0.000880**	**89.**					**80-120**	**20**

Form 12
Preparation Log

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Matrix	: WATER	**Prep Method**	: EPA 7470A

Sample Number	Preparation Date	Weight (gram)	Volume (mL)
L2434679-01	06/25/24 19:48	-	25
L2434679-02	06/25/24 19:48	-	25
L2434679-03	06/25/24 19:48	-	25
L2434679-04	06/25/24 19:48	-	25
L2434679-05	06/25/24 19:48	-	25
L2434679-06	06/25/24 19:48	-	25
L2434679-07	06/25/24 19:48	-	25
L2434679-08	06/25/24 19:48	-	25
L2434679-09	06/25/24 19:48	-	25
L2434679-10	06/25/24 19:48	-	25
L2434679-11	06/25/24 19:48	-	25
L2434679-12	06/25/24 19:48	-	25
L2434679-14	06/25/24 19:48	-	25
WG1939190-1	06/25/24 19:48	-	25
WG1939190-2	06/25/24 19:48	-	25
WG1939190-3	06/25/24 19:48	-	25
WG1939190-4	06/25/24 19:48	-	25

Form 12
Preparation Log

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Matrix	: WATER	**Prep Method**	: EPA 7470A

Sample Number	Preparation Date	Weight (gram)	Volume (mL)
L2434679-01	06/26/24 03:10	-	25
L2434679-02	06/26/24 03:10	-	25
L2434679-03	06/26/24 03:10	-	25
L2434679-04	06/26/24 03:10	-	25
L2434679-05	06/26/24 03:10	-	25
L2434679-06	06/26/24 03:10	-	25
L2434679-07	06/26/24 03:10	-	25
L2434679-08	06/26/24 03:10	-	25
L2434679-09	06/26/24 03:10	-	25
L2434679-10	06/26/24 03:10	-	25
L2434679-11	06/26/24 03:10	-	25
L2434679-12	06/26/24 03:10	-	25
L2434679-14	06/26/24 03:10	-	25
WG1939206-1	06/26/24 03:10	-	25
WG1939206-2	06/26/24 03:10	-	25
WG1939206-3	06/26/24 03:10	-	25
WG1939206-4	06/26/24 03:10	-	25

Form 13
Analysis Run Log

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Instrument ID	: NIC1	**Analysis Method**	: 1,7470A
Start Date	: 06/26/24 07:02	**End Date**	: 06/26/24 17:00

Sample Number	Dilution Factor	Analysis Time	Mercury, Total
R1845962-1 ICV	1	07:02:54	X
R1845962-2 ICB	1	07:06:14	X
R1845962-3 CCV	1	08:19:49	X
R1845962-4 CCB	1	08:23:09	X
R1845962-5 CCV	1	09:10:52	X
R1845962-6 CCB	1	09:14:10	X
R1845962-7 CCV	1	10:05:58	X
R1845962-8 CCB	1	10:09:16	X
R1845962-9 CCV	1	10:45:35	X
R1845962-10 CCB	1	10:48:53	X
R1845962-11 CCV	1	12:11:02	X
R1845962-12 CCB	1	12:14:20	X
R1845962-13 CCV	1	12:51:36	X
R1845962-14 CCB	1	12:54:54	X
R1845962-15 CCV	1	13:45:43	X
R1845962-16 CCB	1	13:49:02	X
R1845962-17 CCV	1	15:17:02	X
R1845962-18 CCB	1	15:20:21	X
WG1939190-1 BLANK	1	15:44:41	X
WG1939190-2 LCS	1	15:48:00	X
L2434679-03	1	15:51:19	X
WG1939190-3 MS	1	15:54:37	X
WG1939190-4 MSD	1	15:57:55	X
L2434679-01	1	16:01:14	X
L2434679-02	1	16:04:32	X
L2434679-04	1	16:07:51	X
L2434679-05	1	16:11:10	X

Form 13
Analysis Run Log

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Instrument ID	: NIC1	**Analysis Method**	: 1,7470A
Start Date	: 06/26/24 07:02	**End Date**	: 06/26/24 17:00

Sample Number	Dilution Factor	Analysis Time	Mercury, Total
L2434679-06	1	16:14:28	X
R1845962-19 CCV	1	16:17:46	X
R1845962-20 CCB	1	16:21:03	X
L2434679-07	1	16:24:21	X
L2434679-08	1	16:27:40	X
L2434679-09	1	16:30:58	X
L2434679-10	1	16:34:16	X
L2434679-11	1	16:37:35	X
L2434679-12	1	16:40:53	X
L2434679-14	1	16:44:11	X
R1845962-21 CCV	1	16:57:23	X
R1845962-22 CCB	1	17:00:42	X

Form 13
Analysis Run Log

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Instrument ID	: NIC2	**Analysis Method**	: 1,7470A
Start Date	: 06/26/24 10:32	**End Date**	: 06/26/24 17:44

Sample Number	Dilution Factor	Analysis Time	Mercury, Dissolved
R1845999-1 ICV	1	10:32:52	X
R1845999-2 ICB	1	10:36:12	X
R1845999-3 CCV	1	11:16:01	X
R1845999-4 CCB	1	11:19:21	X
R1845999-5 CCV	1	13:19:36	X
R1845999-6 CCB	1	13:22:54	X
R1845999-7 CCV	1	14:28:27	X
R1845999-8 CCB	1	14:31:46	X
R1845999-9 CCV	1	16:17:10	X
R1845999-10 CCB	1	16:20:28	X
WG1939206-1 BLANK	1	16:30:38	X
WG1939206-2 LCS	1	16:33:57	X
L2434679-03	1	16:37:15	X
WG1939206-3 MS	1	16:40:33	X
WG1939206-4 MSD	1	16:43:51	X
L2434679-01	1	16:47:09	X
L2434679-02	1	16:50:27	X
L2434679-04	1	16:53:45	X
R1845999-11 CCV	1	16:57:04	X
R1845999-12 CCB	1	17:00:22	X
L2434679-05	1	17:07:59	X
L2434679-06	1	17:11:17	X
L2434679-07	1	17:14:35	X
L2434679-08	1	17:17:54	X
L2434679-09	1	17:21:12	X
L2434679-10	1	17:24:30	X
L2434679-11	1	17:27:48	X

Form 13
Analysis Run Log

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Instrument ID	: NIC2	**Analysis Method**	: 1,7470A
Start Date	: 06/26/24 10:32	**End Date**	: 06/26/24 17:44

Sample Number	Dilution Factor	Analysis Time	Mercury, Dissolved
L2434679-12	1	17:31:06	X
L2434679-14	1	17:34:24	X
R1845999-13 CCV	1	17:40:59	X
R1845999-14 CCB	1	17:44:18	X

Date Created: 03/19/18
Created By: Jason Hebert
File: PM4631-1
Page: 1

MERCURY by 7470A, 245.1 (WATER)

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria	Holding Time	Container/Sample Preservation
Mercury, Total	7439-97-6	0.0002	0.0000915	mg/l	80-120	20	75-125	20	20		28 days	1 - Plastic 500ml HNO3 preserved

Please Note that the RL information provided in this table is calculated using a 100% Solids factor. ***(Soil/Solids only)***
Please Note that the information provided in this table is subject to change at anytime at the discretion of Alpha Analytical, Inc.

Date Created: 01/22/21
Created By: Jason Hebert
File: PM9836-1
Page: 1

METALS by 7470A (WATER)

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria	Holding Time	Container/Sample Preservation
Mercury, Total	7439-97-6	0.0002	0.0000915	mg/l	80-120		75-125	20	20		28 days	1 - Plastic 500ml HNO3 preserved

Please Note that the RL information provided in this table is calculated using a 100% Solids factor. (Soil/Solids only)
Please Note that the information provided in this table is subject to change at anytime at the discretion of Alpha Analytical, Inc.

Date Created: 01/22/21
Created By: Jason Hebert
File: PM9837-1
Page: 1

METALS by 7471B (SOIL)

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria	Holding Time	Container/Sample Preservation
Mercury, Total	7439-97-6	0.08	0.05216	mg/kg	72-128		80-120	20	20		28 days	Metals Only-Glass 60mL/2oz unpreserv

Please Note that the RL information provided in this table is calculated using a 100% Solids factor. (Soil/Solids only)
Please Note that the information provided in this table is subject to change at anytime at the discretion of Alpha Analytical, Inc.

Title :
Date : 6/26/2024
Name :

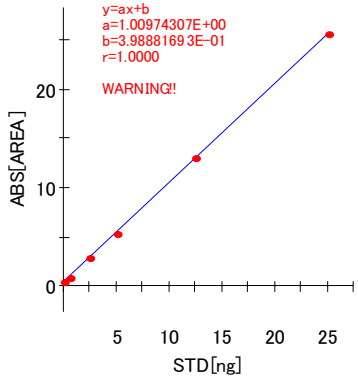
Method

STD
HONH3Cl : 0.0mL
(1+1)H2SO4 : 0.0mL
10w/v% SnCl2 : 0.3mL

SMP
HONH3Cl : 0.0mL
(1+1)H2SO4 : 0.0mL
10w/v% SnCl2 : 0.3mL

Measurement Time(sec) : 120sec

Calib



STD

No.	STD [ug/L]	SVOL [mL]	CVOL [mL]	DVOL [mL]	STD [ng]	AREA [ON]	MEAS [ng]	Dev [%]	M. TIME	Note
1	0.000	2.500	2.500	2.500	0.000	0.4719	0.0723	-	06/26/2024 06:21	JWN,NIC1
2	0.200	2.500	2.500	2.500	0.500	0.9156	0.5117	2.3	06/26/2024 06:24	JWN,NIC1
3	1.000	2.500	2.500	2.500	2.500	2.8934	2.4704	1.2	06/26/2024 06:27	JWN,NIC1
4	2.000	2.500	2.500	2.500	5.000	5.3898	4.9428	1.1	06/26/2024 06:31	JWN,NIC1
5	5.000	2.500	2.500	2.500	12.500	12.9976	12.4772	0.2	06/26/2024 06:34	JWN,NIC1
6	10.000	2.500	2.500	2.500	25.000	25.6683	25.0256	0.1	06/26/2024 06:37	JWN,NIC1

SMP

No.	NAME	SVOL [mL]	CVOL [mL]	DVOL [mL]	AREA [ON]	MEAS [ng]	CONC [ug/L]	Recovery [%]	M. TIME	Note
1	XICV	2.500	2.500	2.500	7.3804	6.9142	2.766	-	06/26/2024 06:44	JWN,NIC1
2	XICB	2.500	2.500	2.500	0.5032	0.1033	0.041	-	06/26/2024 06:47	JWN,NIC1
3	ICV	2.500	2.500	2.500	7.3815	6.9152	2.766	-	06/26/2024 07:02	JWN,NIC1
4	ICB	2.500	2.500	2.500	0.4838	0.0841	0.034	-	06/26/2024 07:06	JWN,NIC1
5	0.2 PPB	2.500	2.500	2.500	0.9201	0.5162	0.206	-	06/26/2024 07:13	JWN,NIC1
6	wg1939035-1 wg1939035	2.500	2.500	2.500	0.4317	0.0325	0.013	-	06/26/2024 07:49	JWN,NIC1

NIC NIPPON INSTRUMENTS CORPORATION

No.	NAME	SVOL [mL]	CVOL [mL]	DVOL [mL]	AREA [ON]	MEAS [ng]	CONC [ug/L]	Recovery [%]	M. TIME	Note
7	wg1939035-2 wg1939035	2.500	2.500	2.500	2.8655	2.4428	0.977	-	06/26/2024 07:53	JWN,NIC1
8	I2434672-01 wg1939035	2.500	2.500	2.500	0.4573	0.0579	0.023	-	06/26/2024 07:56	JWN,NIC1
9	wg1939035-3 wg1939035	2.500	2.500	2.500	11.5326	11.0263	4.411	-	06/26/2024 07:59	JWN,NIC1
10	wg1939035-4 wg1939035	2.500	2.500	2.500	0.4535	0.0541	0.022	-	06/26/2024 08:03	JWN,NIC1
11	I2434672-02 wg1939035	2.500	2.500	2.500	0.4576	0.0582	0.023	-	06/26/2024 08:06	JWN,NIC1
12	I2434672-04 wg1939035	2.500	2.500	2.500	0.4614	0.0619	0.025	-	06/26/2024 08:09	JWN,NIC1
13	I2435222-01 wg1939035	2.500	2.500	2.500	0.4611	0.0616	0.025	-	06/26/2024 08:13	JWN,NIC1
14	I2435268-03 wg1939035	2.500	2.500	2.500	0.4667	0.0672	0.027	-	06/26/2024 08:16	JWN,NIC1
15	Check STD(5ug/L)	2.500	2.500	2.500	12.7884	12.2700	4.908	98.2	06/26/2024 08:19	JWN,NIC1
16	Check Blank	2.500	2.500	2.500	0.5136	0.1136	0.045	-	06/26/2024 08:23	JWN,NIC1
17	I2435268-04 wg1939035	2.500	2.500	2.500	0.4602	0.0607	0.024	-	06/26/2024 08:37	JWN,NIC1
18	I2435271-01 wg1939035	2.500	2.500	2.500	0.4587	0.0592	0.024	-	06/26/2024 08:41	JWN,NIC1
19	I2435271-02 wg1939035	2.500	2.500	2.500	0.4551	0.0557	0.022	-	06/26/2024 08:44	JWN,NIC1
20	I2435271-03 wg1939035	2.500	2.500	2.500	0.4649	0.0654	0.026	-	06/26/2024 08:47	JWN,NIC1
21	I2435271-04 wg1939035	2.500	2.500	2.500	0.4632	0.0637	0.025	-	06/26/2024 08:51	JWN,NIC1
22	I2435271-05 wg1939035	2.500	2.500	2.500	0.4542	0.0548	0.022	-	06/26/2024 08:54	JWN,NIC1
23	I2435271-06 wg1939035	2.500	2.500	2.500	0.4564	0.0570	0.023	-	06/26/2024 08:57	JWN,NIC1
24	I2435271-07 wg1939035	2.500	2.500	2.500	0.4670	0.0675	0.027	-	06/26/2024 09:00	JWN,NIC1
25	I2435448-01 wg1939035	2.500	2.500	2.500	0.4505	0.0511	0.020	-	06/26/2024 09:04	JWN,NIC1
26	I2435448-02 wg1939035	2.500	2.500	2.500	0.4895	0.0897	0.036	-	06/26/2024 09:07	JWN,NIC1
27	Check STD(5ug/L)	2.500	2.500	2.500	12.6443	12.1273	4.851	97.0	06/26/2024 09:10	JWN,NIC1
28	Check Blank	2.500	2.500	2.500	0.5054	0.1055	0.042	-	06/26/2024 09:14	JWN,NIC1
29	I2435448-03 wg1939035	2.500	2.500	2.500	0.4635	0.0640	0.026	-	06/26/2024 09:17	JWN,NIC1
30	wg1938682-1 wg1938682	2.500	2.500	2.500	0.5628	0.1623	0.065	-	06/26/2024 09:36	JWN,NIC1
31	wg1938682-2 wg1938682	2.500	2.500	2.500	2.9618	2.5382	1.015	-	06/26/2024 09:39	JWN,NIC1
32	L2434549-04 wg1938682	2.500	2.500	2.500	0.4271	0.0279	0.011	-	06/26/2024 09:42	JWN,NIC1
33	wg1938682-3 wg1938682	2.500	2.500	2.500	12.6218	12.1050	4.842	-	06/26/2024 09:46	JWN,NIC1
34	wg1938682-4 wg1938682	2.500	2.500	2.500	12.3299	11.8159	4.726	-	06/26/2024 09:49	JWN,NIC1
35	L2434562-01 wg1938682	2.500	2.500	2.500	0.4120	0.0130	0.005	-	06/26/2024 09:52	JWN,NIC1
36	L2434549-01 wg1938682	2.500	2.500	2.500	0.4209	0.0218	0.009	-	06/26/2024 09:56	JWN,NIC1
37	L2434549-02 wg1938682	2.500	2.500	2.500	0.4725	0.0729	0.029	-	06/26/2024 09:59	JWN,NIC1
38	L2434549-03 wg1938682	2.500	2.500	2.500	0.4662	0.0667	0.027	-	06/26/2024 10:02	JWN,NIC1

No.	NAME	SVOL [mL]	CVOL [mL]	DVOL [mL]	AREA [ON]	MEAS [ng]	CONC [ug/L]	Recovery [%]	M. TIME	Note
39	Check STD(5ug/L)	2.500	2.500	2.500	12.8887	12.3693	4.948	99.0	06/26/2024 10:05	JWN,NIC1
40	Check Blank	2.500	2.500	2.500	0.5052	0.1053	0.042	-	06/26/2024 10:09	JWN,NIC1
41	L2434549-05 wg1938682	2.500	2.500	2.500	0.4403	0.0410	0.016	-	06/26/2024 10:12	JWN,NIC1
42	L2434549-06 wg1938682	2.500	2.500	2.500	0.4501	0.0507	0.020	-	06/26/2024 10:15	JWN,NIC1
43	L2434549-07 wg1938682	2.500	2.500	2.500	0.4256	0.0265	0.011	-	06/26/2024 10:19	JWN,NIC1
44	L2434549-08 wg1938682	2.500	2.500	2.500	0.4195	0.0204	0.008	-	06/26/2024 10:22	JWN,NIC1
45	L2434549-09 wg1938682	2.500	2.500	2.500	0.4178	0.0187	0.007	-	06/26/2024 10:25	JWN,NIC1
46	L2434549-10 wg1938682	2.500	2.500	2.500	0.4476	0.0482	0.019	-	06/26/2024 10:29	JWN,NIC1
47	L2434549-11 wg1938682	2.500	2.500	2.500	0.4398	0.0405	0.016	-	06/26/2024 10:32	JWN,NIC1
48	L2434549-12 wg1938682	2.500	2.500	2.500	0.4203	0.0212	0.008	-	06/26/2024 10:35	JWN,NIC1
49	L2434683-01 wg1938682	2.500	2.500	2.500	0.5100	0.1100	0.044	-	06/26/2024 10:38	JWN,NIC1
50	L2434683-02 wg1938682	2.500	2.500	2.500	0.5533	0.1529	0.061	-	06/26/2024 10:42	JWN,NIC1
51	Check STD(5ug/L)	2.500	2.500	2.500	13.1418	12.6200	5.048	101.0	06/26/2024 10:45	JWN,NIC1
52	Check Blank	2.500	2.500	2.500	0.4521	0.0527	0.021	-	06/26/2024 10:48	JWN,NIC1
53	L2434683-03 wg1938682	2.500	2.500	2.500	0.5561	0.1557	0.062	-	06/26/2024 10:52	JWN,NIC1
54	L2434683-04 wg1938682	2.500	2.500	2.500	0.5557	0.1553	0.062	-	06/26/2024 10:55	JWN,NIC1
55	WG1939055-1 WG1939055	2.500	2.500	2.500	0.3735	-0.0251	-0.010	-	06/26/2024 11:43	JWN,NIC1
56	WG1939055-2 WG1939055	2.500	2.500	2.500	2.8693	2.4466	0.979	-	06/26/2024 11:46	JWN,NIC1
57	I2434549-04 WG1939055	2.500	2.500	2.500	0.3901	-0.0087	-0.003	-	06/26/2024 11:50	JWN,NIC1
58	WG1939055-3 WG1939055	2.500	2.500	2.500	12.8235	12.3047	4.922	-	06/26/2024 11:54	JWN,NIC1
59	WG1939055-4 WG1939055	2.500	2.500	2.500	12.5534	12.0372	4.815	-	06/26/2024 11:57	JWN,NIC1
60	I2434549-01 WG1939055	2.500	2.500	2.500	0.3943	-0.0045	-0.002	-	06/26/2024 12:01	JWN,NIC1
61	I2434549-02 WG1939055	2.500	2.500	2.500	0.3838	-0.0149	-0.006	-	06/26/2024 12:04	JWN,NIC1
62	I2434549-03 WG1939055	2.500	2.500	2.500	0.3859	-0.0129	-0.005	-	06/26/2024 12:07	JWN,NIC1
63	Check STD(5ug/L)	2.500	2.500	2.500	13.2394	12.7166	5.087	101.7	06/26/2024 12:11	JWN,NIC1
64	Check Blank	2.500	2.500	2.500	0.4958	0.0960	0.038	-	06/26/2024 12:14	JWN,NIC1
65	I2434549-05 WG1939055	2.500	2.500	2.500	0.3888	-0.0100	-0.004	-	06/26/2024 12:18	JWN,NIC1
66	I2434549-06 WG1939055	2.500	2.500	2.500	0.3816	-0.0171	-0.007	-	06/26/2024 12:21	JWN,NIC1
67	I2434549-07 WG1939055	2.500	2.500	2.500	0.3835	-0.0152	-0.006	-	06/26/2024 12:25	JWN,NIC1
68	I2434549-08 WG1939055	2.500	2.500	2.500	0.3991	0.0002	0.000	-	06/26/2024 12:28	JWN,NIC1
69	I2434549-09 WG1939055	2.500	2.500	2.500	0.3794	-0.0193	-0.008	-	06/26/2024 12:31	JWN,NIC1
70	I2434549-10 WG1939055	2.500	2.500	2.500	0.3968	-0.0021	-0.001	-	06/26/2024 12:35	JWN,NIC1

No.	NAME	SVOL [mL]	CVOL [mL]	DVOL [mL]	AREA [ON]	MEAS [ng]	CONC [ug/L]	Recovery [%]	M. TIME	Note
71	I2434549-11 WG1939055	2.500	2.500	2.500	0.4089	0.0099	0.004	-	06/26/2024 12:38	JWN,NIC1
72	I2434549-12 WG1939055	2.500	2.500	2.500	0.3942	-0.0046	-0.002	-	06/26/2024 12:41	JWN,NIC1
73	I2434740-01 WG1939055	2.500	2.500	2.500	0.4003	0.0014	0.001	-	06/26/2024 12:45	JWN,NIC1
74	I2434740-02 WG1939055	2.500	2.500	2.500	0.4114	0.0124	0.005	-	06/26/2024 12:48	JWN,NIC1
75	Check STD(5ug/L)	2.500	2.500	2.500	12.7700	12.2517	4.901	98.0	06/26/2024 12:51	JWN,NIC1
76	Check Blank	2.500	2.500	2.500	0.4715	0.0719	0.029	-	06/26/2024 12:54	JWN,NIC1
77	I2434740-03 WG1939055	2.500	2.500	2.500	0.4051	0.0062	0.002	-	06/26/2024 13:10	JWN,NIC1
78	I2434740-04 WG1939055	2.500	2.500	2.500	0.4020	0.0031	0.001	-	06/26/2024 13:14	JWN,NIC1
79	I2434740-05 WG1939055	2.500	2.500	2.500	0.3985	-0.0004	-0.000	-	06/26/2024 13:17	JWN,NIC1
80	I2434740-06 WG1939055	2.500	2.500	2.500	0.3993	0.0004	0.000	-	06/26/2024 13:20	JWN,NIC1
81	xCheck STD(5ug/L)	2.500	2.500	2.500	12.5660	12.0497	4.820	-	06/26/2024 13:31	JWN,NIC1
82	xCheck Blank	2.500	2.500	2.500	12.7135	12.1958	4.878	-	06/26/2024 13:34	JWN,NIC1/Check Blank E
83	Check STD(5ug/L)	2.500	2.500	2.500	12.5054	11.9897	4.796	95.9	06/26/2024 13:45	JWN,NIC1
84	Check Blank	2.500	2.500	2.500	0.4924	0.0926	0.037	-	06/26/2024 13:49	JWN,NIC1
85	xxxincorretaliquot	2.500	2.500	2.500	-0.0216	-0.4164	-0.167	-	06/26/2024 15:11	DJR,NIC1/Check STD Erro
86	Check STD(5ug/L)	2.500	2.500	2.500	12.5314	12.0155	4.806	96.1	06/26/2024 15:17	DJR,NIC1
87	Check Blank	2.500	2.500	2.500	0.4939	0.0941	0.038	-	06/26/2024 15:20	DJR,NIC1
88	WG1939190-1 WG1939190	2.500	2.500	2.500	0.4098	0.0108	0.004	-	06/26/2024 15:44	DJR,NIC1
89	WG1939190-2 WG1939190	2.500	2.500	2.500	2.7870	2.3651	0.946	-	06/26/2024 15:48	DJR,NIC1
90	I2434679-03 WG1939190	2.500	2.500	2.500	0.4468	0.0475	0.019	-	06/26/2024 15:51	DJR,NIC1
91	WG1939190-3 WG1939190	2.500	2.500	2.500	12.1645	11.6521	4.661	-	06/26/2024 15:54	DJR,NIC1
92	WG1939190-4 WG1939190	2.500	2.500	2.500	12.2793	11.7658	4.706	-	06/26/2024 15:57	DJR,NIC1
93	I2434679-01 WG1939190	2.500	2.500	2.500	0.4344	0.0352	0.014	-	06/26/2024 16:01	DJR,NIC1
94	I2434679-02 WG1939190	2.500	2.500	2.500	0.4229	0.0238	0.010	-	06/26/2024 16:04	DJR,NIC1
95	I2434679-04 WG1939190	2.500	2.500	2.500	0.4540	0.0546	0.022	-	06/26/2024 16:07	DJR,NIC1
96	I2434679-05 WG1939190	2.500	2.500	2.500	0.4350	0.0358	0.014	-	06/26/2024 16:11	DJR,NIC1
97	I2434679-06 WG1939190	2.500	2.500	2.500	0.4393	0.0400	0.016	-	06/26/2024 16:14	DJR,NIC1
98	Check STD(5ug/L)	2.500	2.500	2.500	12.4965	11.9809	4.792	95.8	06/26/2024 16:17	DJR,NIC1
99	Check Blank	2.500	2.500	2.500	0.4993	0.0994	0.040	-	06/26/2024 16:21	DJR,NIC1
100	I2434679-07 WG1939190	2.500	2.500	2.500	0.5277	0.1276	0.051	-	06/26/2024 16:24	DJR,NIC1
101	I2434679-08 WG1939190	2.500	2.500	2.500	0.4333	0.0341	0.014	-	06/26/2024 16:27	DJR,NIC1
102	I2434679-09 WG1939190	2.500	2.500	2.500	0.4384	0.0391	0.016	-	06/26/2024 16:30	DJR,NIC1

No.	NAME	SVOL [mL]	CVOL [mL]	DVOL [mL]	AREA [ON]	MEAS [ng]	CONC [ug/L]	Recovery [%]	M. TIME	Note
103	I2434679-10 WG1939190	2.500	2.500	2.500	0.4226	0.0235	0.009	-	06/26/2024 16:34	DJR,NIC1
104	I2434679-11 WG1939190	2.500	2.500	2.500	0.4311	0.0319	0.013	-	06/26/2024 16:37	DJR,NIC1
105	I2434679-12 WG1939190	2.500	2.500	2.500	0.4307	0.0315	0.013	-	06/26/2024 16:40	DJR,NIC1
106	I2434679-14 WG1939190	2.500	2.500	2.500	0.4293	0.0301	0.012	-	06/26/2024 16:44	DJR,NIC1
107	I2434740-01 WG1939190	2.500	2.500	2.500	0.4298	0.0306	0.012	-	06/26/2024 16:47	DJR,NIC1
108	I2434740-02 WG1939190	2.500	2.500	2.500	0.4486	0.0492	0.020	-	06/26/2024 16:50	DJR,NIC1
109	I2434740-03 WG1939190	2.500	2.500	2.500	0.4306	0.0314	0.013	-	06/26/2024 16:54	DJR,NIC1
110	Check STD(5ug/L)	2.500	2.500	2.500	12.6365	12.1195	4.848	97.0	06/26/2024 16:57	DJR,NIC1
111	Check Blank	2.500	2.500	2.500	0.4229	0.0238	0.010	-	06/26/2024 17:00	DJR,NIC1
112	I2434740-04 WG1939190	2.500	2.500	2.500	0.4281	0.0289	0.012	-	06/26/2024 17:07	DJR,NIC1
113	I2434740-05 WG1939190	2.500	2.500	2.500	0.4222	0.0231	0.009	-	06/26/2024 17:10	DJR,NIC1
114	I2434740-06 WG1939190	2.500	2.500	2.500	0.4306	0.0314	0.013	-	06/26/2024 17:13	DJR,NIC1
115	Check STD(5ug/L)	2.500	2.500	2.500	12.1281	11.6160	4.646	92.9	06/26/2024 18:20	DJR,NIC1
116	Check Blank	2.500	2.500	2.500	0.4826	0.0829	0.033	-	06/26/2024 18:23	DJR,NIC1

Title :
Date : 6/26/2024
Name :

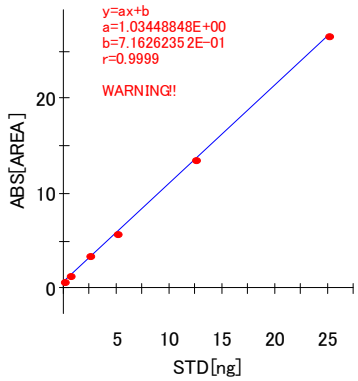
Method

STD
HONH3Cl : 0.0mL
(1+1)H2SO4 : 0.0mL
10w/v% SnCl2 : 0.3mL

SMP
HONH3Cl : 0.0mL
(1+1)H2SO4 : 0.0mL
10w/v% SnCl2 : 0.3mL

Measurement Time(sec) : 120sec

Calib



STD

No.	STD [ug/L]	SVOL [mL]	CVOL [mL]	DVOL [mL]	STD [ng]	AREA [ON]	MEAS [ng]	Dev [%]	M. TIME	Note
1	0.000	2.500	2.500	2.500	0.000	0.6800	-0.0351	-	06/26/2024 10:05	MJR,NIC2
2	0.200	2.500	2.500	2.500	0.500	1.3009	0.5651	13.0	06/26/2024 10:08	MJR,NIC2
3	1.000	2.500	2.500	2.500	2.500	3.4353	2.6284	5.1	06/26/2024 10:12	MJR,NIC2
4	2.000	2.500	2.500	2.500	5.000	5.8121	4.9259	1.5	06/26/2024 10:15	MJR,NIC2
5	5.000	2.500	2.500	2.500	12.500	13.4713	12.3298	1.4	06/26/2024 10:18	MJR,NIC2
6	10.000	2.500	2.500	2.500	25.000	26.6672	25.0858	0.3	06/26/2024 10:22	MJR,NIC2

SMP

No.	NAME	SVOL [mL]	CVOL [mL]	DVOL [mL]	AREA [ON]	MEAS [ng]	CONC [ug/L]	Recovery [%]	M. TIME	Note
1	ICV	2.500	2.500	2.500	8.2606	7.2928	2.917	-	06/26/2024 10:32	MJR,NIC2
2	ICB	2.500	2.500	2.500	0.6865	-0.0288	-0.012	-	06/26/2024 10:36	MJR,NIC2
3	0.2 PPB	2.500	2.500	2.500	1.2968	0.5612	0.224	-	06/26/2024 10:40	MJR,NIC2
4	wg1939135-1 wg1939135	2.500	2.500	2.500	0.4626	-0.2452	-0.098	-	06/26/2024 10:46	MJR,NIC2
5	wg1939135-2 wg1939135	2.500	2.500	2.500	2.9173	2.1277	0.851	-	06/26/2024 10:49	MJR,NIC2
6	L2434669-02 wg1939135	2.500	2.500	2.500	0.4689	-0.2391	-0.096	-	06/26/2024 10:52	MJR,NIC2

NIC NIPPON INSTRUMENTS CORPORATION

No.	NAME	SVOL [mL]	CVOL [mL]	DVOL [mL]	AREA [ON]	MEAS [ng]	CONC [ug/L]	Recovery [%]	M. TIME	Note
7	wg1939135-3 wg1939135	2.500	2.500	2.500	13.0664	11.9384	4.775	-	06/26/2024 10:56	MJR,NIC2
8	wg1939135-4 wg1939135	2.500	2.500	2.500	0.4751	-0.2331	-0.093	-	06/26/2024 10:59	MJR,NIC2
9	L2434687-07 wg1939135	2.500	2.500	2.500	0.4723	-0.2358	-0.094	-	06/26/2024 11:02	MJR,NIC2
10	L2434687-14 wg1939135	2.500	2.500	2.500	0.4796	-0.2288	-0.092	-	06/26/2024 11:06	MJR,NIC2
11	L2434687-28 wg1939135	2.500	2.500	2.500	0.4792	-0.2292	-0.092	-	06/26/2024 11:09	MJR,NIC2
12	L2434687-35 wg1939135	2.500	2.500	2.500	0.4866	-0.2220	-0.089	-	06/26/2024 11:12	MJR,NIC2
13	Check STD(5ug/L)	2.500	2.500	2.500	13.6432	12.4960	4.998	100.0	06/26/2024 11:16	MJR,NIC2
14	Check Blank	2.500	2.500	2.500	0.7213	0.0049	0.002	-	06/26/2024 11:19	MJR,NIC2
15	WG1939186-1 WG1939186	2.500	2.500	2.500	0.4579	-0.2497	-0.100	-	06/26/2024 12:46	MJR,NIC2
16	WG1939186-2 WG1939186	2.500	2.500	2.500	2.9983	2.2060	0.882	-	06/26/2024 12:49	MJR,NIC2
17	WG1939186-3 WG1939186	2.500	2.500	2.500	2.9801	2.1884	0.875	-	06/26/2024 12:53	MJR,NIC2
18	I2434705-01 WG1939186	2.500	2.500	2.500	0.4650	-0.2429	-0.097	-	06/26/2024 12:56	MJR,NIC2
19	I2434705-02 WG1939186	2.500	2.500	2.500	0.4770	-0.2313	-0.093	-	06/26/2024 12:59	MJR,NIC2
20	I2434705-03 WG1939186	2.500	2.500	2.500	0.4641	-0.2438	-0.098	-	06/26/2024 13:03	MJR,NIC2
21	I2434705-04 WG1939186	2.500	2.500	2.500	0.4824	-0.2261	-0.090	-	06/26/2024 13:06	MJR,NIC2
22	I2434705-05 WG1939186	2.500	2.500	2.500	0.4840	-0.2245	-0.090	-	06/26/2024 13:09	MJR,NIC2
23	I2434705-06 WG1939186	2.500	2.500	2.500	0.4719	-0.2362	-0.094	-	06/26/2024 13:12	MJR,NIC2
24	I2434705-07 WG1939186	2.500	2.500	2.500	0.4754	-0.2328	-0.093	-	06/26/2024 13:16	MJR,NIC2
25	Check STD(5ug/L)	2.500	2.500	2.500	13.6332	12.4863	4.995	99.9	06/26/2024 13:19	MJR,NIC2
26	Check Blank	2.500	2.500	2.500	0.7193	0.0029	0.001	-	06/26/2024 13:22	MJR,NIC2
27	I2434705-08 WG1939186	2.500	2.500	2.500	0.4659	-0.2420	-0.097	-	06/26/2024 13:28	MJR,NIC2
28	WG1939477-1 WG1939477	2.500	2.500	2.500	0.4107	-0.2954	-0.118	-	06/26/2024 13:35	MJR,NIC2
29	WG1939477-2 WG1939477	2.500	2.500	2.500	3.0008	2.2084	0.883	-	06/26/2024 13:38	MJR,NIC2
30	L2435683-01 WG1939477	2.500	2.500	2.500	0.4142	-0.2920	-0.117	-	06/26/2024 13:41	MJR,NIC2
31	WG1939477-3 WG1939477	2.500	2.500	2.500	13.2965	12.1608	4.864	-	06/26/2024 13:45	MJR,NIC2
32	WG1939477-4 WG1939477	2.500	2.500	2.500	0.4185	-0.2878	-0.115	-	06/26/2024 13:48	MJR,NIC2
33	L2433109-03 WG1939477	2.500	2.500	2.500	0.4214	-0.2850	-0.114	-	06/26/2024 13:51	MJR,NIC2
34	Check STD(5ug/L)	2.500	2.500	2.500	13.2234	12.0902	4.836	96.7	06/26/2024 14:28	MJR,NIC2
35	Check Blank	2.500	2.500	2.500	0.7074	-0.0086	-0.003	-	06/26/2024 14:31	MJR,NIC2
36	Check STD(5ug/L)	2.500	2.500	2.500	13.5231	12.3799	4.952	99.0	06/26/2024 16:17	MJR,NIC2
37	Check Blank	2.500	2.500	2.500	0.7048	-0.0111	-0.004	-	06/26/2024 16:20	MJR,NIC2
38	WG1939206-1 WG1939206	2.500	2.500	2.500	0.4018	-0.3040	-0.122	-	06/26/2024 16:30	MJR,NIC2

No.	NAME	SVOL [mL]	CVOL [mL]	DVOL [mL]	AREA [ON]	MEAS [ng]	CONC [ug/L]	Recovery [%]	M. TIME	Note
39	WG1939206-2 WG1939206	2.500	2.500	2.500	3.0081	2.2154	0.886	-	06/26/2024 16:33	MJR,NIC2
40	I2434679-03 WG1939206	2.500	2.500	2.500	0.4072	-0.2988	-0.120	-	06/26/2024 16:37	MJR,NIC2
41	WG1939206-3 WG1939206	2.500	2.500	2.500	13.6671	12.5191	5.008	-	06/26/2024 16:40	MJR,NIC2
42	WG1939206-4 WG1939206	2.500	2.500	2.500	13.5230	12.3798	4.952	-	06/26/2024 16:43	MJR,NIC2
43	I2434679-01 WG1939206	2.500	2.500	2.500	0.3997	-0.3060	-0.122	-	06/26/2024 16:47	MJR,NIC2
44	I2434679-02 WG1939206	2.500	2.500	2.500	0.4165	-0.2898	-0.116	-	06/26/2024 16:50	MJR,NIC2
45	I2434679-04 WG1939206	2.500	2.500	2.500	0.4158	-0.2904	-0.116	-	06/26/2024 16:53	MJR,NIC2
46	Check STD(5ug/L)	2.500	2.500	2.500	13.3401	12.2030	4.881	97.6	06/26/2024 16:57	MJR,NIC2
47	Check Blank	2.500	2.500	2.500	0.7060	-0.0099	-0.004	-	06/26/2024 17:00	MJR,NIC2
48	I2434679-05 WG1939206	2.500	2.500	2.500	0.3987	-0.3070	-0.123	-	06/26/2024 17:07	MJR,NIC2
49	I2434679-06 WG1939206	2.500	2.500	2.500	0.4213	-0.2851	-0.114	-	06/26/2024 17:11	MJR,NIC2
50	I2434679-07 WG1939206	2.500	2.500	2.500	0.4606	-0.2471	-0.099	-	06/26/2024 17:14	MJR,NIC2
51	I2434679-08 WG1939206	2.500	2.500	2.500	0.4087	-0.2973	-0.119	-	06/26/2024 17:17	MJR,NIC2
52	I2434679-09 WG1939206	2.500	2.500	2.500	0.4010	-0.3048	-0.122	-	06/26/2024 17:21	MJR,NIC2
53	I2434679-10 WG1939206	2.500	2.500	2.500	0.4042	-0.3017	-0.121	-	06/26/2024 17:24	MJR,NIC2
54	I2434679-11 WG1939206	2.500	2.500	2.500	0.4127	-0.2934	-0.117	-	06/26/2024 17:27	MJR,NIC2
55	I2434679-12 WG1939206	2.500	2.500	2.500	0.4195	-0.2869	-0.115	-	06/26/2024 17:31	MJR,NIC2
56	I2434679-14 WG1939206	2.500	2.500	2.500	0.4341	-0.2728	-0.109	-	06/26/2024 17:34	MJR,NIC2
57	I2434790-01 WG1939206	2.500	2.500	2.500	0.4119	-0.2942	-0.118	-	06/26/2024 17:37	MJR,NIC2
58	Check STD(5ug/L)	2.500	2.500	2.500	12.9097	11.7869	4.715	94.3	06/26/2024 17:40	MJR,NIC2
59	Check Blank	2.500	2.500	2.500	0.7128	-0.0033	-0.001	-	06/26/2024 17:44	MJR,NIC2
60	I2434790-02 WG1939206	2.500	2.500	2.500	0.3915	-0.3139	-0.126	-	06/26/2024 18:06	MJR,NIC2
61	I2434790-03 WG1939206	2.500	2.500	2.500	0.4237	-0.2828	-0.113	-	06/26/2024 18:10	MJR,NIC2
62	I2434790-04 WG1939206	2.500	2.500	2.500	0.3979	-0.3077	-0.123	-	06/26/2024 18:13	MJR,NIC2
63	I2434790-05 WG1939206	2.500	2.500	2.500	0.4216	-0.2848	-0.114	-	06/26/2024 18:16	MJR,NIC2
64	I2434790-06 WG1939206	2.500	2.500	2.500	0.4089	-0.2971	-0.119	-	06/26/2024 18:19	MJR,NIC2
65	WG1939223-1 WG1939223	2.500	2.500	2.500	0.4537	-0.2538	-0.102	-	06/26/2024 18:26	DJR,NIC2
66	WG1939223-2 WG1939223	2.500	2.500	2.500	3.0565	2.2622	0.905	-	06/26/2024 18:29	DJR,NIC2
67	I2434697-01 WG1939223	2.500	2.500	2.500	0.4673	-0.2407	-0.096	-	06/26/2024 18:32	DJR,NIC2
68	WG1939223-3 WG1939223	2.500	2.500	2.500	13.2386	12.1049	4.842	-	06/26/2024 18:36	DJR,NIC2
69	WG1939223-4 WG1939223	2.500	2.500	2.500	0.4645	-0.2434	-0.097	-	06/26/2024 18:39	DJR,NIC2
70	Check STD(5ug/L)	2.500	2.500	2.500	13.0039	11.8780	4.751	95.0	06/26/2024 18:42	DJR,NIC2

NIC NIPPON INSTRUMENTS CORPORATION

No.	NAME	SVOL [mL]	CVOL [mL]	DVOL [mL]	AREA [ON]	MEAS [ng]	CONC [ug/L]	Recovery [%]	M. TIME	Note
71	Check Blank	2.500	2.500	2.500	0.7084	-0.0076	-0.003	-	06/26/2024 18:45	DJR,NIC2
72	I2434697-02 WG1939223	2.500	2.500	2.500	0.4759	-0.2323	-0.093	-	06/26/2024 18:54	DJR,NIC2
73	I2434697-03 WG1939223	2.500	2.500	2.500	0.4703	-0.2378	-0.095	-	06/26/2024 18:57	DJR,NIC2
74	I2434697-04 WG1939223	2.500	2.500	2.500	0.4850	-0.2236	-0.089	-	06/26/2024 19:01	DJR,NIC2
75	I2434697-05 WG1939223	2.500	2.500	2.500	0.4661	-0.2418	-0.097	-	06/26/2024 19:04	DJR,NIC2
76	I2434697-06 WG1939223	2.500	2.500	2.500	0.4749	-0.2333	-0.093	-	06/26/2024 19:07	DJR,NIC2
77	I2434697-07 WG1939223	2.500	2.500	2.500	0.4780	-0.2303	-0.092	-	06/26/2024 19:11	DJR,NIC2
78	I2434697-08 WG1939223	2.500	2.500	2.500	0.4780	-0.2303	-0.092	-	06/26/2024 19:14	DJR,NIC2
79	I2434697-09 WG1939223	2.500	2.500	2.500	0.4573	-0.2503	-0.100	-	06/26/2024 19:17	DJR,NIC2
80	I2434697-15 WG1939223	2.500	2.500	2.500	0.4875	-0.2211	-0.088	-	06/26/2024 19:21	DJR,NIC2
81	I2434697-16 WG1939223	2.500	2.500	2.500	0.4766	-0.2317	-0.093	-	06/26/2024 19:24	DJR,NIC2
82	Check STD(5ug/L)	2.500	2.500	2.500	13.5161	12.3731	4.949	99.0	06/26/2024 19:27	DJR,NIC2
83	Check Blank	2.500	2.500	2.500	0.7061	-0.0098	-0.004	-	06/26/2024 19:31	DJR,NIC2
84	I2434697-17 WG1939223	2.500	2.500	2.500	0.4523	-0.2552	-0.102	-	06/26/2024 19:53	DJR,NIC2
85	I2434697-18 WG1939223	2.500	2.500	2.500	0.4757	-0.2325	-0.093	-	06/26/2024 19:56	DJR,NIC2
86	Check STD(5ug/L)	2.500	2.500	2.500	12.0953	10.9997	4.400	88.0	06/26/2024 19:59	DJR,NIC2
87	Check Blank	2.500	2.500	2.500	0.6964	-0.0192	-0.008	-	06/26/2024 20:03	DJR,NIC2
88	WG1939252-1 WG1939252	2.500	2.500	2.500	0.4781	-0.2302	-0.092	-	06/26/2024 21:29	DJR,NIC2
89	WG1939252-2 WG1939252	2.500	2.500	2.500	3.0517	2.2576	0.903	-	06/26/2024 21:32	DJR,NIC2
90	I2433275-01 WG1939252	2.500	2.500	2.500	0.4998	-0.2092	-0.084	-	06/26/2024 21:36	DJR,NIC2
91	WG1939252-3 WG1939252	2.500	2.500	2.500	13.3719	12.2337	4.893	-	06/26/2024 21:39	DJR,NIC2
92	WG1939252-4 WG1939252	2.500	2.500	2.500	0.5003	-0.2088	-0.084	-	06/26/2024 21:42	DJR,NIC2
93	I2433109-01 WG1939252	2.500	2.500	2.500	3.6270	2.8137	1.125	-	06/26/2024 21:46	DJR,NIC2
94	Check STD(5ug/L)	2.500	2.500	2.500	13.3747	12.2364	4.895	97.9	06/26/2024 21:49	DJR,NIC2
95	Check Blank	2.500	2.500	2.500	0.5281	-0.1819	-0.073	-	06/26/2024 21:52	DJR,NIC2
96	I2433272-01 WG1939252	2.500	2.500	2.500	0.5398	-0.1706	-0.068	-	06/26/2024 22:00	DJR,NIC2
97	I2433740-01 WG1939252	2.500	2.500	2.500	0.4947	-0.2142	-0.086	-	06/26/2024 22:03	DJR,NIC2
98	I2433740-02 WG1939252	2.500	2.500	2.500	0.4867	-0.2219	-0.089	-	06/26/2024 22:06	DJR,NIC2
99	I2434236-61 WG1939252	2.500	2.500	2.500	0.4757	-0.2325	-0.093	-	06/26/2024 22:09	DJR,NIC2
100	I2434236-69 WG1939252	2.500	2.500	2.500	0.4948	-0.2141	-0.086	-	06/26/2024 22:13	DJR,NIC2
101	I2435060-08 WG1939252	2.500	2.500	2.500	0.4706	-0.2375	-0.095	-	06/26/2024 22:16	DJR,NIC2
102	Check STD(5ug/L)	2.500	2.500	2.500	13.0730	11.9448	4.778	95.6	06/26/2024 22:28	DJR,NIC2

NIC NIPPON INSTRUMENTS CORPORATION

No.	NAME	SVOL [mL]	CVOL [mL]	DVOL [mL]	AREA [ON]	MEAS [ng]	CONC [ug/L]	Recovery [%]	M. TIME	Note
103	Check Blank	2.500	2.500	2.500	0.7066	-0.0093	-0.004	-	06/26/2024 22:32	DJR,NIC2

MERCURY TRUE VALUE CRITERIA

ICV	3 ug/l
LCSW	1 ug/l
MS	1 ug/l
CCV	5 ug/l

As of 6/1/13, Mercury True Value criteria is as follows:

ICV	3 ug/l
LCSW	1 ug/l
MS(aq)	5 ug/l
MS(soil)	1 ug/l
CCV	10 ug/l

▪ Certificate of Analysis ▪

Product: Metals in Soil
Catalog Number: 540
Lot No. D102-540
Certificate Issue Date: June 22, 2018
Expiration Date: January 31, 2022
Revision Number: Original

Product use instructions are included as part of the certification packet and are paginated separately from this Certificate of Analysis. Please reference the product use instructions for catalog #540 revision 030512.

CERTIFICATION

Parameter	Certified Value[1]	Reference Value	Uncertainty[2]	QC Performance Acceptance Limits[3]	PT Performance Acceptance Limits[4]
	mg/kg	mg/kg	%	mg/kg	mg/kg
Aluminum	10100	8160	6.36	3960 - 12400	4080 - 12200
Antimony	120	60.9	9.42	0.822 - 121	12.0 - 166
Arsenic	144	135	5.08	112 - 158	94.6 - 176
Barium	469	443	6.77	366 - 521	332 - 554
Beryllium	207	197	5.86	164 - 229	148 - 246
Boron	213	174	12.6	127 - 221	105 - 244
Cadmium	224	204	6.65	169 - 240	153 - 256
Calcium	5190	4830	9.12	3950 - 5700	3510 - 6150
Chromium	138	132	8.56	109 - 155	92.2 - 171
Cobalt	182	179	7.93	151 - 207	134 - 224
Copper	191	184	6.72	155 - 213	138 - 230
Iron	15000	14400	10.7	8770 - 20000	5120 - 23600
Lead	225	216	7.72	178 - 254	159 - 274
Magnesium	2570	2340	6.13	1780 - 2900	1460 - 3230
Manganese	331	323	6.71	266 - 380	242 - 404
Mercury	16.8	13.2	16.0	8.64 - 17.7	7.89 - 18.5
Molybdenum	193	175	2.39	141 - 209	125 - 226
Nickel	163	152	5.95	126 - 178	106 - 197
Potassium	2420	2050	6.31	1440 - 2660	1210 - 2890
Selenium	81.9	74.9	4.13	59.3 - 90.5	47.0 - 103
Silver	57.6	53.9	9.00	43.0 - 64.8	37.8 - 70.0
Sodium	161	149	12.1	111 - 188	57.7 - 241
Strontium	100	96.2	4.04	78.1 - 114	69.0 - 123
Thallium	253	232	3.54	188 - 276	168 - 296

16341 Table Mountain Pkwy ▪ Golden, CO 80403 ▪ T: 800.372.0122 ▪ 303.431.8454 ▪ www.eraqc.com

Parameter	Certified Value[1]	Reference Value	Uncertainty[2]	QC Performance Acceptance Limits[3]	PT Performance Acceptance Limits[4]
	mg/kg	mg/kg	%	mg/kg	mg/kg
Tin	146	134	10.8	106 - 163	79.5 - 189
Titanium	449	340	7.20	70.2 - 609	44.9 - 711
Uranium	114	113	7.10	85.5 - 140	71.9 - 153
Vanadium	180	172	8.85	137 - 207	126 - 218
Zinc	217	211	6.58	171 - 250	147 - 274

ANALYTICAL VERIFICATION

Parameter	Certified Value[1]	Proficiency Testing Study			NIST Traceability	
		Mean	Recovery[5]	n	SRM Number	Recovery
	mg/kg	mg/kg	%			%
Aluminum	10100	8160	80.8	138	-	-
Antimony	120	60.9	50.8	135	-	-
Arsenic	144	135	93.8	184	-	-
Barium	469	443	94.5	158	-	-
Beryllium	207	197	95.0	148	-	-
Boron	213	174	81.8	107	-	-
Cadmium	224	204	91.3	199	-	-
Calcium	5190	4830	93.0	122	-	-
Chromium	138	132	95.5	172	-	-
Cobalt	182	179	98.4	140	-	-
Copper	191	184	96.3	183	-	-
Iron	15000	14400	95.6	133	-	-
Lead	225	216	96.2	204	-	-
Magnesium	2570	2340	91.2	122	-	-
Manganese	331	323	97.6	147	-	-
Mercury	16.8	13.2	78.3	128	-	-
Molybdenum	193	175	90.8	143	-	-
Nickel	163	152	93.1	185	-	-
Potassium	2420	2050	84.7	121	-	-
Selenium	81.9	74.9	91.5	163	-	-

16341 Table Mountain Pkwy ▪ Golden, CO 80403 ▪ T: 800.372.0122 ▪ 303.431.8454 ▪ www.eraqc.com

▪ Certificate of Analysis ▪

Parameter	Certified Value[1]	Proficiency Testing Study			NIST Traceability	
		Mean	Recovery[5]	n	SRM Number	Recovery
	mg/kg	mg/kg	%			%
Silver	57.6	53.9	93.6	150	-	-
Sodium	161	149	92.8	105	-	-
Strontium	100	96.2	96.2	90	-	-
Thallium	253	232	91.6	147	-	-
Tin	146	134	92.0	100	-	-
Titanium	449	340	75.6	93	-	-
Uranium	114	113	98.8	35	-	-
Vanadium	180	172	95.4	139	-	-
Zinc	217	211	97.0	180	-	-

1. The **Certified Values** are the actual "made-to" concentrations confirmed by ERA analytical verification. The certified values are monitored and purchasers will be notified of any significant changes resulting in recertification or withdrawal of this certified reference material during the period of validity of this certificate.

2. The **Uncertainty** is the total propagated uncertainty at the 95% confidence interval. The uncertainty is based on the preparation and internal analytical verification of the product by ERA, multiplied by a coverage factor. The uncertainty applies to the product as supplied and does not take into account any required or optional dilution and/or preparations the laboratory may perform while using this product.

3. The **QC Performance Acceptance Limits (QC PALs™)**are based on actual historical data collected in ERA's Proficiency Testing program. The QC PALs™ reflect any inherent biases in the methods used to establish the limits and closely approximate a 95% confidence interval of the performance that experienced laboratories should achieve using accepted environmental methods. Use the QC PALs™ to realistically evaluate your performance against your peers.

4. The **PT Performance Acceptance Limits (PT PALs™)** are calculated using the regression equations and fixed acceptance criteria specified in the NELAC proficiency testing requirements. Use the PT PALs™ when analyzing this QC standard alongside USEPA and NELAC compliant PT standards. Please note that many PT study acceptance limits are concentration dependent (some non-linearly) and, therefore, the acceptance limits of this QC standard and any PT standard may differ relative to their difference in concentrations.

5. The **PT Data/Traceability** data include the mean value, percent recovery and number of data points reported by the laboratories in our Proficiency Testing study compared to the Certified Values. In addition, where NIST Standard Reference Materials (SRMs) are available, each analyte has been analytically traced to the NIST SRM listed. This product is traceable to the lot numbers of its starting materials. All gravimetric and volumetric measurements related to its manufacture are traceable to NIST through an unbroken chain of comparisons.
Traceability Recovery (%) = [(% recovery certified standard)/(% recovery NIST SRM)]*100
The traceability data shown were compiled by analyzing the ERA standards or their associated stock solutions against the applicable NIST SRMs.

6. For additional information on this product such as intended use, instructions for use, level of homogeneity, and safety information, please refer to the provided Instruction Sheet

If you have any questions or need technical assistance, please call ERA technical assistance at 1-800-372-0122 or send an email to info@eraqc.com.

Certifying Officer

Brian Miller

Quality Officer

Matthew Seebeck

ISO/IEC GUIDE 34:2009 ACCREDITED REFERENCE MATERIAL PRODUCER CERTIFICATE NO. 1539.03

ISO/IEC 17025:2005 ACCREDITED CHEMICAL TESTING LABORATORY CERTIFICATE NO. 1539.02

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ERA
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Reference Material

▪ Certificate of Analysis ▪

Product: Metals in Soil
Catalog Number: 540
Lot No. D105-540
Certificate Issue Date: March 19, 2019
Expiration Date: October 12, 2022
Revision Number: Original

Product use instructions are included as part of the certification packet and are paginated separately from this Certificate of Analysis. Please reference the product use instructions for catalog #540 revision 030512.

CERTIFICATION

Parameter	Certified Value[1]	Reference Value	Uncertainty[2]	QC Performance Acceptance Limits[3]	PT Performance Acceptance Limits[4]
	mg/kg	mg/kg	%	mg/kg	mg/kg
Aluminum	10100	8800	8.32	4600 - 13000	4470 - 13100
Antimony	282	147	7.70	6.17 - 289	28.2 - 366
Arsenic	155	143	6.34	119 - 168	100 - 186
Barium	439	415	5.37	343 - 488	311 - 519
Beryllium	192	179	2.78	149 - 210	134 - 224
Boron	216	160	7.08	113 - 208	96.1 - 238
Cadmium	61.5	56.2	0.528	46.6 - 65.9	42.2 - 70.3
Calcium	5190	4960	6.64	4090 - 5840	3610 - 6310
Chromium	104	101	4.75	83.2 - 118	70.5 - 131
Cobalt	196	189	0.500	158 - 219	141 - 236
Copper	65.0	63.1	2.65	53.1 - 73.1	47.3 - 78.9
Iron	15000	15700	8.94	10100 - 21300	6000 - 25400
Lead	126	125	4.77	103 - 146	89.3 - 160
Magnesium	2570	2410	6.26	1860 - 2970	1520 - 3310
Manganese	387	382	5.37	315 - 449	290 - 474
Mercury	7.76	7.61	13.7	5.53 - 9.69	4.57 - 10.7
Molybdenum	120	107	0.500	86.0 - 128	75.5 - 139
Nickel	117	108	0.514	89.5 - 127	75.7 - 141
Potassium	2420	2110	5.62	1500 - 2720	1260 - 2960
Selenium	84.6	77.9	7.10	61.8 - 94.0	49.2 - 107
Silver	34.6	34.3	8.34	27.8 - 40.9	23.6 - 45.1
Sodium	161	145	6.72	106 - 183	54.3 - 235
Strontium	104	104	3.95	85.1 - 123	74.8 - 133
Thallium	123	113	0.500	91.3 - 134	77.1 - 149

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Parameter	Certified Value[1]	Reference Value	Uncertainty[2]	QC Performance Acceptance Limits[3]	PT Performance Acceptance Limits[4]
	mg/kg	mg/kg	%	mg/kg	mg/kg
Tin	118	107	0.500	83.5 - 130	61.2 - 152
Titanium	512	421	5.80	114 - 728	0.00 - 854
Uranium	103	104	6.18	79.1 - 128	71.9 - 135
Vanadium	87.3	83.7	8.55	66.8 - 101	54.2 - 113
Zinc	251	240	3.98	194 - 285	168 - 312

ANALYTICAL VERIFICATION

Parameter	Certified Value[1]	Proficiency Testing Study			NIST Traceability	
		Mean	Recovery[5]	n	SRM Number	Recovery
	mg/kg	mg/kg	%			%
Aluminum	10100	8800	87.1	193	-	-
Antimony	282	147	52.3	216	-	-
Arsenic	155	143	92.5	240	-	-
Barium	439	415	94.6	222	-	-
Beryllium	192	179	93.4	220	-	-
Boron	216	160	74.2	152	-	-
Cadmium	61.5	56.2	91.5	239	-	-
Calcium	5190	4960	95.6	175	-	-
Chromium	104	101	96.8	237	-	-
Cobalt	196	189	96.2	215	-	-
Copper	65.0	63.1	97.1	237	-	-
Iron	15000	15700	105	195	-	-
Lead	126	125	99.0	243	-	-
Magnesium	2570	2410	93.9	177	-	-
Manganese	387	382	98.7	215	-	-
Mercury	7.76	7.61	98.0	157	-	-
Molybdenum	120	107	89.4	216	-	-
Nickel	117	108	92.5	235	-	-
Potassium	2420	2110	87.2	181	-	-
Selenium	84.6	77.9	92.1	231	-	-

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Parameter	Certified Value[1]	Proficiency Testing Study			NIST Traceability	
		Mean	Recovery[5]	n	SRM Number	Recovery
	mg/kg	mg/kg	%			%
Silver	34.6	34.3	99.3	216	-	-
Sodium	161	145	89.8	166	-	-
Strontium	104	104	99.9	148	-	-
Thallium	123	113	91.8	215	-	-
Tin	118	107	90.4	164	-	-
Titanium	512	421	82.2	157	-	-
Uranium	103	104	101	61	-	-
Vanadium	87.3	83.7	95.9	214	-	-
Zinc	251	240	95.5	234	-	-

1. The **Certified Values** are the actual "made-to" concentrations confirmed by ERA analytical verification. The certified values are monitored and purchasers will be notified of any significant changes resulting in recertification or withdrawal of this reference material during the period of validity of this certificate.

2. The **Uncertainty** is the total propagated uncertainty at the 95% confidence interval. The uncertainty is based on the preparation and internal analytical verification of the product by ERA, multiplied by a coverage factor. The uncertainty applies to the product as supplied and does not take into account any required or optional dilution and/or preparations the laboratory may perform while using this product.

3. The **QC Performance Acceptance Limits (QC PALs™)**are based on actual historical data collected in ERA's Proficiency Testing program. The QC PALs™ reflect any inherent biases in the methods used to establish the limits and closely approximate a 95% confidence interval of the performance that experienced laboratories should achieve using accepted environmental methods. Use the QC PALs™ to realistically evaluate your performance against your peers.

4. The **PT Performance Acceptance Limits (PT PALs™)** are calculated using the regression equations and fixed acceptance criteria specified in the NELAC proficiency testing requirements. Use the PT PALs™ when analyzing this QC standard alongside USEPA and NELAC compliant PT standards. Please note that many PT study acceptance limits are concentration dependent (some non-linearly) and, therefore, the acceptance limits of this QC standard and any PT standard may differ relative to their difference in concentrations.

5. The **PT Data/Traceability** data include the mean value, percent recovery and number of data points reported by the laboratories in our Proficiency Testing study compared to the Certified Values. In addition, where NIST Standard Reference Materials (SRMs) are available, each analyte has been analytically traced to the NIST SRM listed. This product is traceable to the lot numbers of its starting materials. All gravimetric and volumetric measurements related to its manufacture are traceable to NIST through an unbroken chain of comparisons.
Traceability Recovery (%) = [(% recovery certified standard)/(% recovery NIST SRM)]*100
The traceability data shown were compiled by analyzing the ERA standards or their associated stock solutions against the applicable NIST SRMs.

6. For additional information on this product such as intended use, instructions for use, level of homogeneity, and safety information, please refer to the provided Instruction Sheet

If you have any questions or need technical assistance, please call ERA technical assistance at 1-800-372-0122 or send an email to info@eraqc.com.

Certifying Officer

Brian Miller

Brian Miller

Quality Officer

Matthew Seebeck

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Certified Reference Material

▪ Certificate of Analysis ▪

Product: Metals in Soil
Catalog Number: 540
Lot No. D109-540
Certificate Issue Date: March 24, 2020
Expiration Date: October 03, 2023
Revision Number: Original

Product use instructions are included as part of the certification packet and are paginated separately from this Certificate of Analysis. Please reference the product use instructions for catalog #540 revision 090119.

CERTIFICATION

Parameter	Certified Value[1]	Reference Value[7]	Uncertainty[2]	QC Performance Acceptance Limits[3]	PT Performance Acceptance Limits[4]
	mg/kg	mg/kg	%	mg/kg	mg/kg
Aluminum	10100	8130	2.54	3920 - 12300	4060 - 12200
Antimony	259	134	5.03	4.56 - 264	25.9 - 335
Arsenic	171	156	3.38	129 - 183	109 - 203
Barium	253	239	4.81	197 - 280	179 - 298
Beryllium	179	169	6.59	141 - 198	127 - 212
Boron	114	87.5	10.3	62.5 - 113	52.5 - 125
Cadmium	149	137	5.43	113 - 160	103 - 171
Calcium	5190	4760	3.48	3890 - 5640	3460 - 6070
Chromium	163	154	3.79	126 - 181	108 - 200
Cobalt	127	121	5.07	101 - 141	90.8 - 151
Copper	57.0	54.9	4.13	46.1 - 63.6	41.1 - 68.6
Iron	15000	14100	6.27	8470 - 19700	4920 - 23200
Lead	133	130	3.00	107 - 152	93.3 - 167
Magnesium	2570	2320	3.32	1760 - 2880	1440 - 3200
Manganese	277	269	2.67	221 - 317	199 - 340
Mercury	21.6	20.5	7.72	14.7 - 26.3	12.3 - 28.6
Molybdenum	108	95.4	2.61	76.4 - 114	66.9 - 124
Nickel	58.7	53.9	4.97	44.5 - 63.3	37.7 - 70.0
Potassium	2420	2020	3.06	1410 - 2630	1190 - 2850
Selenium	181	167	5.63	132 - 201	113 - 221
Silver	35.5	33.6	5.20	26.8 - 40.3	23.0 - 44.1
Sodium	161	133	2.76	95.1 - 171	46.5 - 220
Strontium	89.7	87.9	4.59	71.7 - 104	62.8 - 113
Thallium	121	112	5.19	90.3 - 133	76.1 - 147

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▪ Certificate of Analysis ▪

Parameter	Certified Value[1]	Reference Value[7]	Uncertainty[2]	QC Performance Acceptance Limits[3]	PT Performance Acceptance Limits[4]
	mg/kg	mg/kg	%	mg/kg	mg/kg
Tin	83.5	74.0	5.42	57.6 - 90.4	39.7 - 108
Titanium	474	333	7.17	48.6 - 617	46.3 - 620
Uranium	51.9	51.9	3.36	39.6 - 64.3	35.9 - 68.0
Vanadium	68.1	62.6	6.00	49.4 - 75.8	37.0 - 88.3
Zinc	165	158	2.34	128 - 188	111 - 205

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ANALYTICAL VERIFICATION

Parameter	Certified Value[1]	Proficiency Testing Study			NIST Traceability	
		Mean	Recovery[5]	n	SRM Number[6]	Recovery
	mg/kg	mg/kg	%			%
Aluminum	10100	8130	80.5	196	-	-
Antimony	259	134	51.8	217	-	-
Arsenic	171	156	91.3	243	-	-
Barium	253	239	94.3	230	-	-
Beryllium	179	169	94.6	223	-	-
Boron	114	87.5	76.7	150	-	-
Cadmium	149	137	91.8	249	-	-
Calcium	5190	4760	91.8	184	-	-
Chromium	163	154	94.4	245	-	-
Cobalt	127	121	95.3	221	-	-
Copper	57.0	54.9	96.2	243	-	-
Iron	15000	14100	93.9	199	-	-
Lead	133	130	97.7	251	-	-
Magnesium	2570	2320	90.1	182	-	-
Manganese	277	269	97.2	220	-	-
Mercury	21.6	20.5	94.7	172	-	-
Molybdenum	108	95.4	88.3	218	-	-
Nickel	58.7	53.9	91.8	242	-	-
Potassium	2420	2020	83.5	187	-	-
Selenium	181	167	92.2	235	-	-
Silver	35.5	33.6	94.5	222	-	-
Sodium	161	133	82.7	177	-	-
Strontium	89.7	87.9	98.0	151	-	-
Thallium	121	112	92.2	219	-	-
Tin	83.5	74.0	88.6	170	-	-
Titanium	474	333	70.3	157	-	-
Uranium	51.9	51.9	100	60	-	-
Vanadium	68.1	62.6	91.9	213	-	-
Zinc	165	158	95.8	238	-	-

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▪ Certificate of Analysis ▪

1. The **Certified Values** are the actual gravimetric/volumetric "made-to" concentrations confirmed by ERA analytical verification. The certified values are monitored and purchasers will be notified of any significant changes resulting in recertification or withdrawal of this certified reference material during the period of validity of this certificate.

2. The **Uncertainty** represents an expanded uncertainty and approximates a 95% confidence interval. The uncertainty is based on the characterization, homogeneity and stability characteristics of the product, multiplied by a coverage factor (k=2). The uncertainty applies to the product as supplied and does not take into account any required or optional dilution and/or preparations the laboratory may perform while using this product. The formula used to calculate the expanded uncertainty is:
$U_{expanded} = k * SQRT((U_{char}^2) + (U_{homogen}^2) + (U_{LTS}^2) + (U_{STS}^2) + (U_{RSS}^2))$

Where:

$U_{expanded}$ = Expanded uncertainty.
k = Coverage factor.
U_{char} = Combined standard uncertainty of the manufacturing and/or analytical verification assessment.
$U_{homogen}$ = Standard uncertainty of the homogeneity assessment.
U_{LTS} = Standard uncertainty associated with long-term stability.
U_{STS} = Standard uncertainty associated with short-term (transport) stability.
U_{RSS} = Standard uncertainty associated with repeated sampling of the product (where permitted by product use instructions).

3. The **QC Performance Acceptance Limits (QC PALs™)** are based on actual historical data collected in ERA's Proficiency Testing program. The QC PALs™ reflect any inherent biases in the methods used to establish the limits and closely approximate a 95% confidence interval of the performance that experienced laboratories should achieve using accepted environmental methods. Use the QC PALs™ to realistically evaluate your performance against your peers.

4. The **PT Performance Acceptance Limits (PT PALs™)** are calculated using the regression equations and fixed acceptance criteria specified in the NELAC proficiency testing requirements. Use the PT PALs™ when analyzing this certified reference material alongside USEPA and NELAC compliant PT study materials. Please note that many PT study acceptance limits are concentration dependent (some non-linearly) and therefore, the acceptance limits of this certified reference material and any PT study material may differ relative to their difference in concentrations.

5. The **PT Performance Data** include the mean value, percent recovery and number of data points reported by laboratories in our Proficiency Testing study compared to the Certified Values. In the event this lot was not used in a proficiency testing scheme, the data displayed was generated internally by ERA.

6. Where NIST Standard Reference Materials (SRMs) are available, each analyte has been analytically traced to the NIST SRM listed. **Analytical Traceability Recovery (%)** = [(% recovery ERA certified reference material)/(% recovery NIST SRM)]*100
The traceability data shown were compiled by analyzing this ERA certified reference material and/or it's associated stock solution(s) against the applicable NIST SRMs.

7. The **Reference Values** are equal to the mean recoveries for the parameters as determined in an interlaboratory round robin study. The **Reference Values** represent the expected performance for the analytes in this standard. ERA recommends using the **Reference Values** when assessing or evaluating your results.

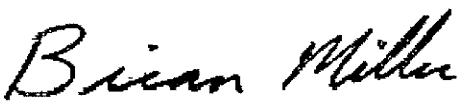
8. **Metrological Traceability**. This certified reference material is metrologically traceable to NIST mass reference materials through an unbroken chain of comparisons.

9. For additional information on this product such as intended use, storage information, instructions for use, minimum sample size, and safety information, please refer to the Product Use Instructions provided.

If you have any questions or need technical assistance, please call ERA technical assistance at 1-800-372-0122 or send an email to info@eraqc.com.

Certifying Officer

Brian Miller



Quality Officer

Matthew Seebeck

ERA
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Certified Reference Material

▪ Certificate of Analysis ▪

Product: Metals in Soil
Catalog Number: 540
Lot No. D113-540
Certificate Issue Date: March 23, 2021
Expiration Date: October 13, 2024
Revision Number: Original

Product use instructions are included as part of the certification packet and are paginated separately from this Certificate of Analysis. Please reference the product use instructions for catalog #540 revision 090119.

CERTIFICATION

Parameter	Certified Value[1]	Reference Value	Uncertainty[2]	QC Performance Acceptance Limits[3]	PT Performance Acceptance Limits[4]
	mg/kg	mg/kg	%	mg/kg	mg/kg
Aluminum	10100	8630	12.0	4420 - 12800	4370 - 12900
Antimony	256	129	16.8	0.742 - 257	25.6 - 323
Arsenic	91.6	84.5	15.1	70.0 - 99.0	59.2 - 110
Barium	259	249	9.94	206 - 292	187 - 311
Beryllium	175	163	3.89	135 - 191	122 - 204
Boron	95.7	76.7	12.8	55.7 - 97.7	48.0 - 107
Cadmium	107	99.0	11.5	82.2 - 116	74.2 - 124
Calcium	5190	4760	11.8	3890 - 5640	3460 - 6070
Chromium	129	122	14.6	101 - 144	85.7 - 159
Cobalt	63.6	61.7	11.5	51.9 - 71.6	46.3 - 77.2
Copper	62.3	61.5	12.3	51.9 - 71.0	46.1 - 76.8
Iron	15000	14500	15.7	8860 - 20100	5190 - 23800
Lead	122	123	13.9	103 - 144	88.3 - 158
Lithium	6.42	7.30	18.7	5.13 - 9.48	3.20 - 11.4
Magnesium	2570	2360	8.87	1810 - 2920	1480 - 3250
Manganese	470	456	13.4	375 - 538	350 - 563
Mercury	22.1	18.9	14.5	13.0 - 24.8	11.3 - 26.4
Molybdenum	80.1	72.8	11.0	58.7 - 87.0	50.5 - 95.2
Nickel	143	135	14.2	112 - 158	94.7 - 176
Potassium	2420	2090	8.21	1480 - 2700	1240 - 2940
Selenium	128	121	11.7	96.9 - 146	80.4 - 162
Silver	45.4	44.1	6.69	35.5 - 52.8	30.7 - 57.6
Sodium	161	136	9.34	97.4 - 174	48.1 - 223
Strontium	82.2	82.3	8.42	67.4 - 97.1	58.6 - 106

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▪ Certificate of Analysis ▪

Parameter	Certified Value[1]	Reference Value	Uncertainty[2]	QC Performance Acceptance Limits[3]	PT Performance Acceptance Limits[4]
	mg/kg	mg/kg	%	mg/kg	mg/kg
Thallium	154	144	7.54	117 - 171	101 - 187
Tin	89.7	79.8	14.0	62.2 - 97.4	43.5 - 116
Titanium	705	546	10.3	123 - 969	118 - 974
Uranium	29.5	30.9	3.38	23.9 - 37.9	21.3 - 40.5
Vanadium	196	186	14.2	148 - 224	138 - 235
Zinc	307	295	10.4	240 - 351	207 - 384

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Calculation of 7470A Mercury

Calculate Mercury concentration from the daily calibration curve. The curve is generated utilizing a straight-line equation defined as:

$$A = k1 + k2C$$

Where:

A = Average peak height of the sample/standard integrations
C = Sample/Standard Concentration, µg/L
k1 = y-intercept
k2 = slope

The instrument will plot peak height against concentration (µg/L). The result is generated in µg/L . This value is divided by 1000 to convert the units to mg/L. If the sample is diluted (DF), the result is multiplied by the DF to generate the final result.

Result, mg/L = (concentration, µg/L) x (1mg/1000µg) x (DF)

Calculation of 7471B Mercury

Calculate Mercury concentration from the daily calibration curve. The curve is generated utilizing a straight-line equation defined as:

$$A = k1 + k2C$$

Where:

A = Average peak height of the sample/standard integrations
C = Sample/Standard Concentration, µg/L
k1 = y-intercept
k2 = slope

The instrument will plot peak height against concentration (µg/L). The result is generated in µg/L . This value is divided by 1000 to convert the units to mg/L. If the sample is diluted (DF), the result is multiplied by the DF to generate the final result.

Result, mg/L = (concentration, µg/L) x (1mg/1000µg) x (DF)

The result in mg/kg is calculated on a dry weight basis using the sample weight digested(Wt), the final volume of the digestate(FV), and the percent total solids(%TS).

Result, mg/kg, wet = ((result, mg/L) x (FV)) /Wt

Result, mg/kg, dry wt = (Result, mg/kg wet)/(%TS)

No.	Sample No.	NAME
1	1	STD
2	2	STD
3	3	STD
4	4	STD
5	5	STD
6	6	STD
1	7	XICV
2	8	XICB
3	7	ICV
4	8	ICB
5	9	0.2 PPB
6	10	wg1939035-1 wg1939035
7	11	wg1939035-2 wg1939035
8	12	l2434672-01 wg1939035
9	13	wg1939035-3 wg1939035
10	14	wg1939035-4 wg1939035
11	15	l2434672-02 wg1939035
12	16	l2434672-04 wg1939035
13	17	l2435222-01 wg1939035
14	18	l2435268-03 wg1939035
15	19	Check STD(5ug/L)
16	20	Check Blank
17	21	l2435268-04 wg1939035
18	22	l2435271-01 wg1939035
19	23	l2435271-02 wg1939035
20	24	l2435271-03 wg1939035
21	25	l2435271-04 wg1939035
22	26	l2435271-05 wg1939035
23	27	l2435271-06 wg1939035
24	28	l2435271-07 wg1939035
25	29	l2435448-01 wg1939035
26	30	l2435448-02 wg1939035
27	31	Check STD(5ug/L)
28	32	Check Blank
29	33	l2435448-03 wg1939035
30	34	wg1938682-1 wg1938682
31	35	wg1938682-2 wg1938682
32	36	L2434549-04 wg1938682
33	37	wg1938682-3 wg1938682
34	38	wg1938682-4 wg1938682
35	39	L2434562-01 wg1938682
36	40	L2434549-01 wg1938682
37	41	L2434549-02 wg1938682

38	42	L2434549-03 wg1938682
39	43	Check STD(5ug/L)
40	44	Check Blank
41	45	L2434549-05 wg1938682
42	46	L2434549-06 wg1938682
43	47	L2434549-07 wg1938682
44	48	L2434549-08 wg1938682
45	49	L2434549-09 wg1938682
46	50	L2434549-10 wg1938682
47	51	L2434549-11 wg1938682
48	52	L2434549-12 wg1938682
49	53	L2434683-01 wg1938682
50	54	L2434683-02 wg1938682
51	55	Check STD(5ug/L)
52	56	Check Blank
53	57	L2434683-03 wg1938682
54	58	L2434683-04 wg1938682
55	59	WG1939055-1 WG1939055
56	60	WG1939055-2 WG1939055
57	61	l2434549-04 WG1939055
58	62	WG1939055-3 WG1939055
59	63	WG1939055-4 WG1939055
60	64	l2434549-01 WG1939055
61	65	l2434549-02 WG1939055
62	66	l2434549-03 WG1939055
63	67	Check STD(5ug/L)
64	68	Check Blank
65	69	l2434549-05 WG1939055
66	70	l2434549-06 WG1939055
67	71	l2434549-07 WG1939055
68	72	l2434549-08 WG1939055
69	73	l2434549-09 WG1939055
70	74	l2434549-10 WG1939055
71	75	l2434549-11 WG1939055
72	76	l2434549-12 WG1939055
73	77	l2434740-01 WG1939055
74	78	l2434740-02 WG1939055
75	79	Check STD(5ug/L)
76	80	Check Blank
77	1	l2434740-03 WG1939055
78	2	l2434740-04 WG1939055
79	3	l2434740-05 WG1939055
80	4	l2434740-06 WG1939055
81	5	xCheck STD(5ug/L)

82	6	xCheck Blank
83	7	Check STD(5ug/L)
84	8	Check Blank
85	11	xxxincorretaliquot
86	11	Check STD(5ug/L)
87	12	Check Blank
88	13	WG1939190-1 WG1939190
89	14	WG1939190-2 WG1939190
90	15	l2434679-03 WG1939190
91	16	WG1939190-3 WG1939190
92	17	WG1939190-4 WG1939190
93	18	l2434679-01 WG1939190
94	19	l2434679-02 WG1939190
95	20	l2434679-04 WG1939190
96	21	l2434679-05 WG1939190
97	22	l2434679-06 WG1939190
98	23	Check STD(5ug/L)
99	24	Check Blank
100	25	l2434679-07 WG1939190
101	26	l2434679-08 WG1939190
102	27	l2434679-09 WG1939190
103	28	l2434679-10 WG1939190
104	29	l2434679-11 WG1939190
105	30	l2434679-12 WG1939190
106	31	l2434679-14 WG1939190
107	32	l2434740-01 WG1939190
108	33	l2434740-02 WG1939190
109	34	l2434740-03 WG1939190
110	35	Check STD(5ug/L)
111	36	Check Blank
112	37	l2434740-04 WG1939190
113	38	l2434740-05 WG1939190
114	39	l2434740-06 WG1939190
115	40	Check STD(5ug/L)
116	41	Check Blank

No.	Sample No.	NAME
1	1	STD
2	2	STD
3	3	STD
4	4	STD
5	5	STD
6	6	STD
1	7	ICV
2	8	ICB
3	9	0.2 PPB
4	10	wg1939135-1 wg1939135
5	11	wg1939135-2 wg1939135
6	12	L2434669-02 wg1939135
7	13	wg1939135-3 wg1939135
8	14	wg1939135-4 wg1939135
9	15	L2434687-07 wg1939135
10	16	L2434687-14 wg1939135
11	17	L2434687-28 wg1939135
12	18	L2434687-35 wg1939135
13	19	Check STD(5ug/L)
14	20	Check Blank
15	21	WG1939186-1 WG1939186
16	22	WG1939186-2 WG1939186
17	23	WG1939186-3 WG1939186
18	24	l2434705-01 WG1939186
19	25	l2434705-02 WG1939186
20	26	l2434705-03 WG1939186
21	27	l2434705-04 WG1939186
22	28	l2434705-05 WG1939186
23	29	l2434705-06 WG1939186
24	30	l2434705-07 WG1939186
25	31	Check STD(5ug/L)
26	32	Check Blank
27	33	l2434705-08 WG1939186
28	34	WG1939477-1 WG1939477
29	35	WG1939477-2 WG1939477
30	36	L2435683-01 WG1939477
31	37	WG1939477-3 WG1939477
32	38	WG1939477-4 WG1939477
33	39	L2433109-03 WG1939477
34	43	Check STD(5ug/L)
35	44	Check Blank
36	45	Check STD(5ug/L)
37	46	Check Blank

38	47	WG1939206-1 WG1939206
39	48	WG1939206-2 WG1939206
40	49	l2434679-03 WG1939206
41	50	WG1939206-3 WG1939206
42	51	WG1939206-4 WG1939206
43	52	l2434679-01 WG1939206
44	53	l2434679-02 WG1939206
45	54	l2434679-04 WG1939206
46	55	Check STD(5ug/L)
47	56	Check Blank
48	57	l2434679-05 WG1939206
49	58	l2434679-06 WG1939206
50	59	l2434679-07 WG1939206
51	60	l2434679-08 WG1939206
52	61	l2434679-09 WG1939206
53	62	l2434679-10 WG1939206
54	63	l2434679-11 WG1939206
55	64	l2434679-12 WG1939206
56	65	l2434679-14 WG1939206
57	66	l2434790-01 WG1939206
58	67	Check STD(5ug/L)
59	68	Check Blank
60	69	l2434790-02 WG1939206
61	70	l2434790-03 WG1939206
62	71	l2434790-04 WG1939206
63	72	l2434790-05 WG1939206
64	73	l2434790-06 WG1939206
65	74	WG1939223-1 WG1939223
66	75	WG1939223-2 WG1939223
67	76	l2434697-01 WG1939223
68	77	WG1939223-3 WG1939223
69	78	WG1939223-4 WG1939223
70	79	Check STD(5ug/L)
71	80	Check Blank
72	1	l2434697-02 WG1939223
73	2	l2434697-03 WG1939223
74	3	l2434697-04 WG1939223
75	4	l2434697-05 WG1939223
76	5	l2434697-06 WG1939223
77	6	l2434697-07 WG1939223
78	7	l2434697-08 WG1939223
79	8	l2434697-09 WG1939223
80	9	l2434697-15 WG1939223
81	10	l2434697-16 WG1939223

82	11	Check STD(5ug/L)
83	12	Check Blank
84	13	l2434697-17 WG1939223
85	14	l2434697-18 WG1939223
86	15	Check STD(5ug/L)
87	16	Check Blank
88	17	WG1939252-1 WG1939252
89	18	WG1939252-2 WG1939252
90	19	l2433275-01 WG1939252
91	20	WG1939252-3 WG1939252
92	21	WG1939252-4 WG1939252
93	22	l2433109-01 WG1939252
94	23	Check STD(5ug/L)
95	24	Check Blank
96	25	l2433272-01 WG1939252
97	26	l2433740-01 WG1939252
98	27	l2433740-02 WG1939252
99	28	l2434236-61 WG1939252
100	29	l2434236-69 WG1939252
101	30	l2435060-08 WG1939252
102	31	Check STD(5ug/L)
103	32	Check Blank

METALS ELN REPORT

Workgroup: WG1939190

Digestion

Prep Method	Acid Type 1	Acid 1 Lot	Acid Type 2	Acid 2 Lot	Spike Type	Lims Spike Lot	Spike Lot	Post Spike Spikelot	Spike Lot	Pipette Id
EPA 7470A	HNO3	24006780	H2SO4	22380152	METALS	METSPIKE	HG24252205 54FACV1	METSPIKE	HG24252205320, 344 54FACV1	

Additional Reagent/Std	K2O8S2	PS2425192328FAO
	KMnO4	PP2426241437JDH
	NaCl-NH2OH.HCl	HH2426211525MJR
		ICV2424131701MGM

Sample/ Type	Digestion Date	Analyst	Sample Vol ml	Spike Amt ml	Start Date/Time	Hot Block Unit	Temperature (C)	Stop Date/Time	Final Vol	Comments
L2434679-01 WATER	06/25/24 19:48	Maisie Mcqueen	25		06/25/24 19:48	5	94.5	06/25/24 21:48	25	
L2434679-02 WATER	06/25/24 19:48	Maisie Mcqueen	25		06/25/24 19:48	5	94.5	06/25/24 21:48	25	
L2434679-03 WATER	06/25/24 19:48	Maisie Mcqueen	25		06/25/24 19:48	5	94.5	06/25/24 21:48	25	
L2434679-04 WATER	06/25/24 19:48	Maisie Mcqueen	25		06/25/24 19:48	5	94.5	06/25/24 21:48	25	
L2434679-05 WATER	06/25/24 19:48	Maisie Mcqueen	25		06/25/24 19:48	5	94.5	06/25/24 21:48	25	
L2434679-06 WATER	06/25/24 19:48	Maisie Mcqueen	25		06/25/24 19:48	5	94.5	06/25/24 21:48	25	
L2434679-07 WATER	06/25/24 19:48	Maisie Mcqueen	25		06/25/24 19:48	5	94.5	06/25/24 21:48	25	
L2434679-08 WATER	06/25/24 19:48	Maisie Mcqueen	25		06/25/24 19:48	5	94.5	06/25/24 21:48	25	
L2434679-09 WATER	06/25/24 19:48	Maisie Mcqueen	25		06/25/24 19:48	5	94.5	06/25/24 21:48	25	
L2434679-10 WATER	06/25/24 19:48	Maisie Mcqueen	25		06/25/24 19:48	5	94.5	06/25/24 21:48	25	
L2434679-11 WATER	06/25/24 19:48	Maisie Mcqueen	25		06/25/24 19:48	5	94.5	06/25/24 21:48	25	
L2434679-12 WATER	06/25/24 19:48	Maisie Mcqueen	25		06/25/24 19:48	5	94.5	06/25/24 21:48	25	

Reported: 27-JUN-24 07:51 AM

METALS ELN REPORT

Workgroup: WG1939190

Sample/ Type	Digestion Date	Analyst	Sample Vol ml	Spike Amt ml	Start Date/Time	Hot Block Unit	Temperature (C)	Stop Date/Time	Final Vol	Comments
L2434679-14 WATER	06/25/24 19:48	Maisie Mcqueen	25		06/25/24 19:48	5	94.5	06/25/24 21:48	25	
L2434740-01 SAMP	06/25/24 19:48	Maisie Mcqueen	25		06/25/24 19:48	5	94.5	06/25/24 21:48	25	
L2434740-02 SAMP	06/25/24 19:48	Maisie Mcqueen	25		06/25/24 19:48	5	94.5	06/25/24 21:48	25	
L2434740-03 SAMP	06/25/24 19:48	Maisie Mcqueen	25		06/25/24 19:48	5	94.5	06/25/24 21:48	25	
L2434740-04 SAMP	06/25/24 19:48	Maisie Mcqueen	25		06/25/24 19:48	5	94.5	06/25/24 21:48	25	
L2434740-05 SAMP	06/25/24 19:48	Maisie Mcqueen	25		06/25/24 19:48	5	94.5	06/25/24 21:48	25	
L2434740-06 SAMP	06/25/24 19:48	Maisie Mcqueen	25		06/25/24 19:48	5	94.5	06/25/24 21:48	25	
WG1939190-1 BLANK	06/25/24 19:48	Maisie Mcqueen	25		06/25/24 19:48	5	94.5	06/25/24 21:48	25	ELN: HCR
WG1939190-2 LCS	06/25/24 19:48	Maisie Mcqueen	25	0.25	06/25/24 19:48	5	94.5	06/25/24 21:48	25	
WG1939190-3 MS	06/25/24 19:48	Maisie Mcqueen	25	1.25	06/25/24 19:48	5	94.5	06/25/24 21:48	25	
WG1939190-4 MSD	06/25/24 19:48	Maisie Mcqueen	25	1.25	06/25/24 19:48	5	94.5	06/25/24 21:48	25	

Reported: 27-JUN-24 07:51 AM

METALS ELN REPORT

Workgroup: WG1939190

Reagent	Actual Volume	Units
Sulfuric Acid (H2SO4)	1.25	ml
Nitric Acid (HNO3)	.625	ml
Potassium Permanganat	3.75	ml
Potassium Persulfate (K	2	ml
NaCl-Hydroxylamine Hy	1.5	ml

Reported: 27-JUN-24 07:51 AM

METALS ELN REPORT

Workgroup: WG1939206

Digestion

Prep Method	Acid Type 1	Acid 1 Lot	Acid Type 2	Acid 2 Lot	Spike Type	Lims Spike Lot	Spike Lot	Post Spike Spikelot	Spike Lot	Pipette Id
EPA 7470A	HNO3	24006780	H2SO4	22380152	METALS	METSPIKE	HG24252205 54FACV1	METSPIKE	HG24252205320, 344 54FACV1	

Additional Reagent/Std	K2O8S2	PS2426250654ADG
	KMnO4	PP2426241437JDH
	NaCl-NH2OH.HCl	HH2426211525MJR
		ICV2424131701MGM

Sample/ Type	Digestion Date	Analyst	Lab Filtration Date	Sample Vol ml	Spike Amt	Start Date/Time	Hot Block Unit	Temperature (C)	Stop Date/Time	Final Vol	Comments
L2434679-01 WATER	06/26/24 03:10	Christine Hamor	NA	25		06/26/24 03:10	5	95.4	06/26/24 05:10	25	CONTAINER M
L2434679-02 WATER	06/26/24 03:10	Christine Hamor	NA	25		06/26/24 03:10	5	95.4	06/26/24 05:10	25	CONTAINER M
L2434679-03 WATER	06/26/24 03:10	Christine Hamor	NA	25		06/26/24 03:10	5	95.4	06/26/24 05:10	25	CONTAINER M
L2434679-04 WATER	06/26/24 03:10	Christine Hamor	NA	25		06/26/24 03:10	5	95.4	06/26/24 05:10	25	CONTAINER M
L2434679-05 WATER	06/26/24 03:10	Christine Hamor	NA	25		06/26/24 03:10	5	95.4	06/26/24 05:10	25	CONTAINER M
L2434679-06 WATER	06/26/24 03:10	Christine Hamor	NA	25		06/26/24 03:10	5	95.4	06/26/24 05:10	25	CONTAINER M
L2434679-07 WATER	06/26/24 03:10	Christine Hamor	NA	25		06/26/24 03:10	5	95.4	06/26/24 05:10	25	CONTAINER M
L2434679-08 WATER	06/26/24 03:10	Christine Hamor	NA	25		06/26/24 03:10	5	95.4	06/26/24 05:10	25	CONTAINER M
L2434679-09 WATER	06/26/24 03:10	Christine Hamor	NA	25		06/26/24 03:10	5	95.4	06/26/24 05:10	25	CONTAINER M
L2434679-10 WATER	06/26/24 03:10	Christine Hamor	NA	25		06/26/24 03:10	5	95.4	06/26/24 05:10	25	CONTAINER M
L2434679-11 WATER	06/26/24 03:10	Christine Hamor	NA	25		06/26/24 03:10	5	95.4	06/26/24 05:10	25	CONTAINER M
L2434679-12 WATER	06/26/24 03:10	Christine Hamor	NA	25		06/26/24 03:10	5	95.4	06/26/24 05:10	25	CONTAINER M

Reported: 27-JUN-24 07:51 AM

METALS ELN REPORT

Workgroup: WG1939206

Sample/ Type	Digestion Date	Analyst	Lab Filtration Date	Sample Vol ml	Spike Amt	Start Date/Time	Hot Block Unit	Temperature (C)	Stop Date/Time	Final Vol	Comments
L2434679-14 WATER	06/26/24 03:10	Christine Hamor	NA	25		06/26/24 03:10	5	95.4	06/26/24 05:10	25	CONTAINER M
L2434790-01 SAMP	06/26/24 03:10	Christine Hamor	NA	25		06/26/24 03:10	5	95.4	06/26/24 05:10	25	CONTAINER E
L2434790-02 SAMP	06/26/24 03:10	Christine Hamor	NA	25		06/26/24 03:10	5	95.4	06/26/24 05:10	25	CONTAINER E
L2434790-03 SAMP	06/26/24 03:10	Christine Hamor	NA	25		06/26/24 03:10	5	95.4	06/26/24 05:10	25	CONTAINER E
L2434790-04 SAMP	06/26/24 03:10	Christine Hamor	NA	25		06/26/24 03:10	5	95.4	06/26/24 05:10	25	CONTAINER E
L2434790-05 SAMP	06/26/24 03:10	Christine Hamor	NA	25		06/26/24 03:10	5	95.4	06/26/24 05:10	25	CONTAINER E
L2434790-06 SAMP	06/26/24 03:10	Christine Hamor	NA	25		06/26/24 03:10	5	95.4	06/26/24 05:10	25	CONTAINER E
WG1939206-1 BLANK	06/26/24 03:10	Christine Hamor	NA	25		06/26/24 03:10	5	95.4	06/26/24 05:10	25	ELN check: ADG
WG1939206-2 LCS	06/26/24 03:10	Christine Hamor	NA	25	.25	06/26/24 03:10	5	95.4	06/26/24 05:10	25	
WG1939206-3 MS	06/26/24 03:10	Christine Hamor	NA	25	1.25	06/26/24 03:10	5	95.4	06/26/24 05:10	25	
WG1939206-4 MSD	06/26/24 03:10	Christine Hamor	NA	25	1.25	06/26/24 03:10	5	95.4	06/26/24 05:10	25	

METALS ELN REPORT

Workgroup: WG1939206

Reagent	Actual Volume	Units
Sulfuric Acid (H2SO4)	1.25	ml
Nitric Acid (HNO3)	.625	ml
Potassium Permanganat	3.75	ml
Potassium Persulfate (K	2	ml
NaCl-Hydroxylamine Hy	1.5	ml

Reported: 27-JUN-24 07:51 AM

Wet Chemistry

Total Nitrogen Analysis

Results

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Lab ID	: L2434679-01	**Date Collected**	: 06/19/24 09:30
Client ID	: MW-3A	**Date Received**	: 06/19/24
Sample Location	: MANORVILLE, NY	**Date Analyzed**	: 06/27/24 19:00
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 107,-	**Analyst**	: MRM
Lab File ID	: WG1940515.csv	**Instrument ID**	:
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Total Nitrogen	0.42	0.30	0.30	

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Lab ID	: L2434679-02	**Date Collected**	: 06/18/24 16:35
Client ID	: MW-6A	**Date Received**	: 06/19/24
Sample Location	: MANORVILLE, NY	**Date Analyzed**	: 06/27/24 19:00
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 107,-	**Analyst**	: MRM
Lab File ID	: WG1940515.csv	**Instrument ID**	:
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Total Nitrogen	0.38	0.30	0.30	

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Lab ID	: L2434679-03	**Date Collected**	: 06/18/24 14:50
Client ID	: MW-6B	**Date Received**	: 06/19/24
Sample Location	: MANORVILLE, NY	**Date Analyzed**	: 06/27/24 19:00
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 107,-	**Analyst**	: MRM
Lab File ID	: WG1940515.csv	**Instrument ID**	:
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Total Nitrogen	0.74	0.30	0.30	

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Lab ID	: L2434679-04	**Date Collected**	: 06/18/24 14:49
Client ID	: MW-6C	**Date Received**	: 06/19/24
Sample Location	: MANORVILLE, NY	**Date Analyzed**	: 06/27/24 19:00
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 107,-	**Analyst**	: MRM
Lab File ID	: WG1940515.csv	**Instrument ID**	:
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Total Nitrogen	1.2	0.30	0.30	

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Lab ID	: L2434679-05	**Date Collected**	: 06/18/24 10:15
Client ID	: MW-7A	**Date Received**	: 06/19/24
Sample Location	: MANORVILLE, NY	**Date Analyzed**	: 06/27/24 19:00
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 107,-	**Analyst**	: MRM
Lab File ID	: WG1940515.csv	**Instrument ID**	:
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Total Nitrogen	0.96	0.30	0.30	

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Lab ID	: L2434679-06	**Date Collected**	: 06/18/24 12:05
Client ID	: MW-7B	**Date Received**	: 06/19/24
Sample Location	: MANORVILLE, NY	**Date Analyzed**	: 06/27/24 19:00
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 107,-	**Analyst**	: MRM
Lab File ID	: WG1940515.csv	**Instrument ID**	:
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Total Nitrogen	ND	0.30	0.30	U

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Lab ID	: L2434679-07	**Date Collected**	: 06/18/24 12:12
Client ID	: MW-7C	**Date Received**	: 06/19/24
Sample Location	: MANORVILLE, NY	**Date Analyzed**	: 06/27/24 19:00
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 107,-	**Analyst**	: MRM
Lab File ID	: WG1940515.csv	**Instrument ID**	:
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Total Nitrogen	1.5	0.30	0.30	

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Lab ID	: L2434679-08	**Date Collected**	: 06/18/24 16:47
Client ID	: MW-8A	**Date Received**	: 06/19/24
Sample Location	: MANORVILLE, NY	**Date Analyzed**	: 06/27/24 19:00
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 107,-	**Analyst**	: MRM
Lab File ID	: WG1940515.csv	**Instrument ID**	:
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Total Nitrogen	1.0	0.30	0.30	

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Lab ID	: L2434679-09	**Date Collected**	: 06/18/24 18:25
Client ID	: MW-8B	**Date Received**	: 06/19/24
Sample Location	: MANORVILLE, NY	**Date Analyzed**	: 06/27/24 19:00
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 107,-	**Analyst**	: MRM
Lab File ID	: WG1940515.csv	**Instrument ID**	:
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Total Nitrogen	ND	0.30	0.30	U

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Lab ID	: L2434679-10	**Date Collected**	: 06/19/24 11:00
Client ID	: MW-9B	**Date Received**	: 06/19/24
Sample Location	: MANORVILLE, NY	**Date Analyzed**	: 06/27/24 19:00
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 107,-	**Analyst**	: MRM
Lab File ID	: WG1940515.csv	**Instrument ID**	:
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Total Nitrogen	5.4	0.30	0.30	

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Lab ID	: L2434679-11	**Date Collected**	: 06/18/24 00:00
Client ID	: DUP	**Date Received**	: 06/19/24
Sample Location	: MANORVILLE, NY	**Date Analyzed**	: 06/27/24 19:00
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 107,-	**Analyst**	: MRM
Lab File ID	: WG1940515.csv	**Instrument ID**	:
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Total Nitrogen	1.0	0.30	0.30	

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Lab ID	: L2434679-14	**Date Collected**	: 06/18/24 18:07
Client ID	: MW-8B2	**Date Received**	: 06/19/24
Sample Location	: MANORVILLE, NY	**Date Analyzed**	: 06/27/24 19:00
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 107,-	**Analyst**	: MRM
Lab File ID	: WG1940515.csv	**Instrument ID**	:
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Total Nitrogen	0.54	0.30	0.30	

Sample Raw Data

ALPHA ANALYTICAL LABS

WET CHEMISTRY DEPARTMENT

TOTAL NITROGEN

Last Change 3/5/13 GFF
File tnitrogen.xlt

Sample #: _____

Client: _____

Analysis: **Total Nitrogen**

Method: ***Calculation from TKN & NO3/NO2***

Product: **TNITROGEN**
Analyte: **Total Nitrogen,**
Analysis Date: 6/27/2024 19:00
Technician: MRM
Work group: WG1940515
RL: **0.3 mg/L**

Sample Number	TKN (mg/L)	NO3/NO2 (mg/L)	RL Multiplier	Result (mg/L)
L2434679-01	0.421	0.078	1.0	0.421
L2434679-02	0.385	0.053	1.0	0.385
L2434679-03	0.739	0	1.0	0.739
L2434679-04	1.2	0	1.0	1.2
L2434679-05	0	0.96	1.0	0.96
L2434679-06	0.116	0.24	1.0	0.24
L2434679-07	0.0823	1.5	1.0	1.5
L2434679-08	0	1	1.0	1
L2434679-09	0.269	0	1.0	0.269
L2434679-10	0	5.4	1.0	5.4
L2434679-11	0	1	1.0	1
L2434679-14	0.106	0.54	1.0	0.54

Calculations of Total Nitrogen

Calculate the concentration value based on results for TKN-N and N03/NO2-N.

Aqueous samples:

mgTN-N/L = TKN-N(mg/l) + NO3/NO2-N (mg/l)

Soil samples:

mgTN-N/Kg = TKN-N(mg/Kg) + NO3/NO2-N(mg/Kg)

Total Kjeldahl Nitrogen Analysis

Results

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Lab ID	: L2434679-01	**Date Collected**	: 06/19/24 09:30
Client ID	: MW-3A	**Date Received**	: 06/19/24
Sample Location	: MANORVILLE, NY	**Date Analyzed**	: 06/27/24 14:42
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,4500NH3-H	**Analyst**	: KEP
Lab File ID	: NH320240627-C	**Instrument ID**	: LACHAT
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 06/26/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Nitrogen, Total Kjeldahl	0.421	0.300	0.066	

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Lab ID	: L2434679-02	**Date Collected**	: 06/18/24 16:35
Client ID	: MW-6A	**Date Received**	: 06/19/24
Sample Location	: MANORVILLE, NY	**Date Analyzed**	: 06/27/24 14:43
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,4500NH3-H	**Analyst**	: KEP
Lab File ID	: NH320240627-C	**Instrument ID**	: LACHAT
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 06/26/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Nitrogen, Total Kjeldahl	0.385	0.300	0.066	

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Lab ID	: L2434679-03	**Date Collected**	: 06/18/24 14:50
Client ID	: MW-6B	**Date Received**	: 06/19/24
Sample Location	: MANORVILLE, NY	**Date Analyzed**	: 06/27/24 14:44
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,4500NH3-H	**Analyst**	: KEP
Lab File ID	: NH320240627-C	**Instrument ID**	: LACHAT
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 06/26/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Nitrogen, Total Kjeldahl	0.739	0.300	0.066	

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Lab ID	: L2434679-04	**Date Collected**	: 06/18/24 14:49
Client ID	: MW-6C	**Date Received**	: 06/19/24
Sample Location	: MANORVILLE, NY	**Date Analyzed**	: 06/27/24 14:48
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,4500NH3-H	**Analyst**	: KEP
Lab File ID	: NH320240627-C	**Instrument ID**	: LACHAT
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 06/26/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Nitrogen, Total Kjeldahl	1.20	0.300	0.066	

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Lab ID	: L2434679-05	**Date Collected**	: 06/18/24 10:15
Client ID	: MW-7A	**Date Received**	: 06/19/24
Sample Location	: MANORVILLE, NY	**Date Analyzed**	: 06/27/24 14:48
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,4500NH3-H	**Analyst**	: KEP
Lab File ID	: NH320240627-C	**Instrument ID**	: LACHAT
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 06/26/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Nitrogen, Total Kjeldahl	ND	0.300	0.066	U

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Lab ID	: L2434679-06	**Date Collected**	: 06/18/24 12:05
Client ID	: MW-7B	**Date Received**	: 06/19/24
Sample Location	: MANORVILLE, NY	**Date Analyzed**	: 06/27/24 14:49
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,4500NH3-H	**Analyst**	: KEP
Lab File ID	: NH320240627-C	**Instrument ID**	: LACHAT
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 06/26/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Nitrogen, Total Kjeldahl	0.116	0.300	0.066	J

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Lab ID	: L2434679-07	**Date Collected**	: 06/18/24 12:12
Client ID	: MW-7C	**Date Received**	: 06/19/24
Sample Location	: MANORVILLE, NY	**Date Analyzed**	: 06/27/24 14:50
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,4500NH3-H	**Analyst**	: KEP
Lab File ID	: NH320240627-C	**Instrument ID**	: LACHAT
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 06/26/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Nitrogen, Total Kjeldahl	0.082	0.300	0.066	J

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Lab ID	: L2434679-08	**Date Collected**	: 06/18/24 16:47
Client ID	: MW-8A	**Date Received**	: 06/19/24
Sample Location	: MANORVILLE, NY	**Date Analyzed**	: 06/27/24 14:51
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,4500NH3-H	**Analyst**	: KEP
Lab File ID	: NH320240627-C	**Instrument ID**	: LACHAT
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 06/26/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Nitrogen, Total Kjeldahl	ND	0.300	0.066	U

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Lab ID	: L2434679-09	**Date Collected**	: 06/18/24 18:25
Client ID	: MW-8B	**Date Received**	: 06/19/24
Sample Location	: MANORVILLE, NY	**Date Analyzed**	: 06/27/24 14:52
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,4500NH3-H	**Analyst**	: KEP
Lab File ID	: NH320240627-C	**Instrument ID**	: LACHAT
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 06/26/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Nitrogen, Total Kjeldahl	0.269	0.300	0.066	J

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Lab ID	: L2434679-10	**Date Collected**	: 06/19/24 11:00
Client ID	: MW-9B	**Date Received**	: 06/19/24
Sample Location	: MANORVILLE, NY	**Date Analyzed**	: 06/27/24 14:53
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,4500NH3-H	**Analyst**	: KEP
Lab File ID	: NH320240627-C	**Instrument ID**	: LACHAT
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 06/26/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Nitrogen, Total Kjeldahl	ND	0.300	0.066	U

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Lab ID	: L2434679-11	**Date Collected**	: 06/18/24 00:00
Client ID	: DUP	**Date Received**	: 06/19/24
Sample Location	: MANORVILLE, NY	**Date Analyzed**	: 06/27/24 14:54
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,4500NH3-H	**Analyst**	: KEP
Lab File ID	: NH320240627-C	**Instrument ID**	: LACHAT
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 06/26/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Nitrogen, Total Kjeldahl	ND	0.300	0.066	U

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Lab ID	: L2434679-14	**Date Collected**	: 06/18/24 18:07
Client ID	: MW-8B2	**Date Received**	: 06/19/24
Sample Location	: MANORVILLE, NY	**Date Analyzed**	: 06/27/24 14:55
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,4500NH3-H	**Analyst**	: KEP
Lab File ID	: NH320240627-C	**Instrument ID**	: LACHAT
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 06/26/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Nitrogen, Total Kjeldahl	0.106	0.300	0.066	J

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Lab ID	: WG1939567-1	**Date Collected**	: NA
Client ID	: WG1939567-1BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 06/27/24 14:35
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,4500NH3-H	**Analyst**	: KEP
Lab File ID	: NH320240627-C	**Instrument ID**	: LACHAT
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 06/26/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Nitrogen, Total Kjeldahl	ND	0.300	0.022	U

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Lab ID	: WG1939567-3	**Date Collected**	: 06/18/24 18:07
Client ID	: MW-8B2DUP	**Date Received**	: 06/19/24
Sample Location	:	**Date Analyzed**	: 06/27/24 14:56
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,4500NH3-H	**Analyst**	: KEP
Lab File ID	: NH320240627-C	**Instrument ID**	: LACHAT
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 06/26/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Nitrogen, Total Kjeldahl	ND	0.300	0.066	U

Sample Raw Data

Original Run Filename: OM_6-27-2024_11-50-05AM.OMN Created: 6/27/2024 11:50:05 AM
Original Run Author's Signature: [A1WETCHEMINSTRUMENT]
Current Run Filename: OM_6-27-2024_11-50-05AM.OMN Last Modified: 6/27/2024 12:18:24 PM
Current Run Author's Signature: [A1WETCHEMINSTRUMENT]
Description: Default New Run

	Sample	Rep.	Cup No.	Channel 2 Ammonia (mg N/L)	ADF	MDF	Weight	TRAY A
	STD 1	1	S1	10.00000				
	STD 2	1	S2	8.00000				
	STD 3	1	S3	4.00000				
	STD 4	1	S4	2.00000				
	STD 5	1	S5	1.00000				
	STD 6	1	S6	0.40000				
	STD 7	1	S7	0.20000				
	STD 8	1	S8	0.10000				
	STD 9	1	S9	0.05000				
	STD 10	1	S10	0.00000				
	CCV 0.4000	1	S6	0.38475				96%
			Known Conc:	100.00000				
			Calibration:	Table/Fig. : 1				
	CCV 4.0000	1	S3	3.99205				100%
			Known Conc:	100.00000				
	CCB	1	S10	0.01653				
			Known Conc:	100.00000				
	HI ICV 8.0	1	1	8.40129				105%
	LO ICV 1.0	1	2	1.03753				104%
	ICB	1	3	0.01280				
	WG1939878-1 T	1	4	0.04180				
	WG1939878-2 T	1	5	38.48220		15.00		96%
	LCS LO T	1	6	4.28784		3.00		107%
	L2434847-01 T	1	7	0.53129		3.00		
	WG1939878-4 T	1	8	10.22972		3.00		121%
	WG1939878-3 T	1	9	0.78974		3.00		RPD=39%
	L2434850-01 T	1	10	56.23680		15.00		
X	CCV 0.4000	1	S6	0.52224				131%, RERUN OK
			Known Conc:	100.00000				

Author: A1WETCHEMINSTRUMENT Date : 6/27/2024

Channel 2 (Ammonia High) - Current View

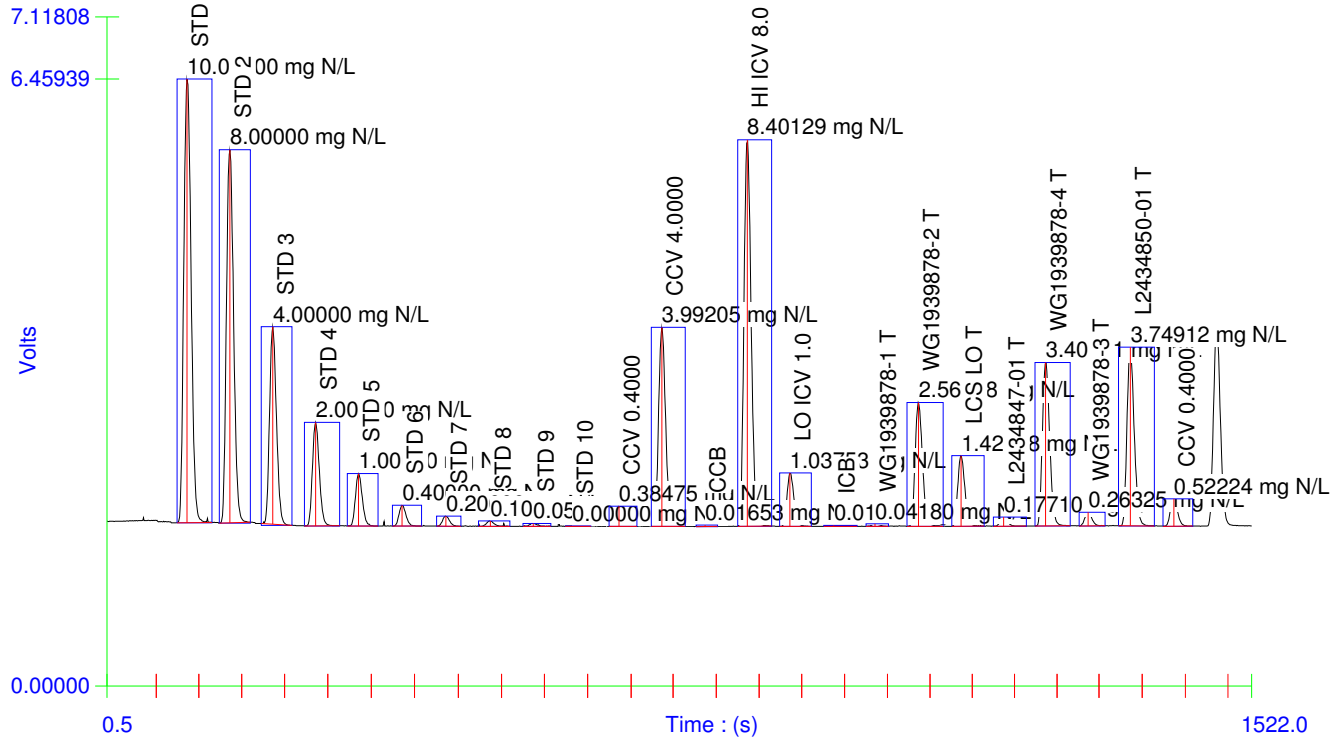
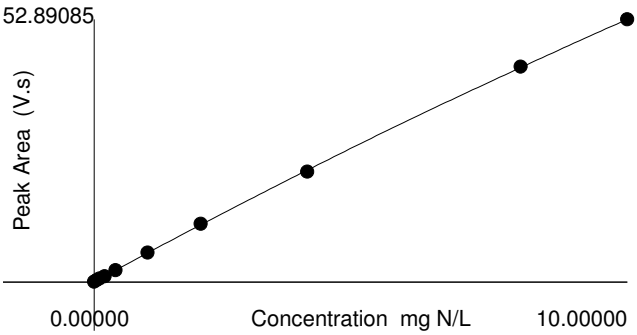


Table : 1 (Ammonia)

	Known Conc. (mg N/L)	Rep.	Peak Area (V.s)	Peak Height (V)	% RSD	% Residual	Det. Conc (mg N/L)	Detection Date	Detection Time
1	10.00000	1	52.89085	4.72249	0.0	0.0	9.98675	6/27/2024	11:53:54 AM
2	8.00000	1	43.34124	3.97036	0.0	-0.3	8.03675	6/27/2024	11:54:51 AM
3	4.00000	1	22.15942	2.10359	0.0	1.6	3.93942	6/27/2024	11:55:48 AM
4	2.00000	1	11.72232	1.10297	0.0	-1.9	2.03604	6/27/2024	11:56:45 AM
5	1.00000	1	5.87825	0.55585	0.0	-0.6	1.00359	6/27/2024	11:57:42 AM
6	0.40000	1	2.37990	0.22321	0.0	0.4	0.39699	6/27/2024	11:58:41 AM
7	0.20000	1	1.16574	0.10807	0.0	5.2	0.18846	6/27/2024	11:59:39 AM
8	0.10000	1	0.68317	0.05835	0.0	-5.4	0.10587	6/27/2024	12:00:37 PM
9	0.05000	1	0.37357	0.03203	0.0	-4.7	0.05297	6/27/2024	12:01:35 PM
10	0.00000	1	0.04487	0.00317			-0.00313	6/27/2024	12:02:31 PM

Figure : 1 (Ammonia)



Area = - 0.05468 * Conc^2 + 5.83039 * Conc + 0.06557
Conc = 0.00035 * Area^2 + 0.17050 * Area - 0.01078
Correlation Coefficient (r) = 1.00000

Weighting : 1/x

Author: A1WETCHEMINSTRUMENT Date : 6/27/2024

Original Run Filename: OM_6-27-2024_12-22-51PM.OMN Created: 6/27/2024 12:22:51 PM
Original Run Author's Signature: [A1WETCHEMINSTRUMENT]
Current Run Filename: OM_6-27-2024_12-22-51PM.OMN Last Modified: 6/27/2024 12:39:01 PM
Current Run Author's Signature: [A1WETCHEMINSTRUMENT]
Description: Default New Run

	Sample	Rep.	Cup No.	Channel 2 Ammonia (mg N/L)	ADF	MDF	Weight	
	CCV 0.4000	1	S6	0.39565				TRAY A
		Known Conc:		100.00000				99%
	CCV 4.0000	1	S3	4.03929				
		Known Conc:		100.00000				101%
		Calibration:		Table/Fig. : 1				
	CCB	1	S10	0.02116				
		Known Conc:		100.00000				
	L2434885-02 T	1	11	0.00688		3.00		
	L2434904-03 T	1	12	92.56724		15.00		
	L2434904-06 T	1	13	1.55420		3.00		
	L2434907-01 T	1	14	1.50908		3.00		
	L2434919-01 T	1	15	1.13849		3.00		
	L2435029-01 T	1	16	2.22522		3.00		
	L2435030-01 T	1	17	58.44473		15.00		
	L2435030-02 T	1	18	69.30006		15.00		
	L2435032-01 T	1	19	47.30446		15.00		
	L2435034-01 T	1	20	104.30551		30.00		
X	CCV 0.4000	1	S6	0.52688				132%, RERUN OK
		Known Conc:		100.00000				

Channel 2 (Ammonia High) - Current View

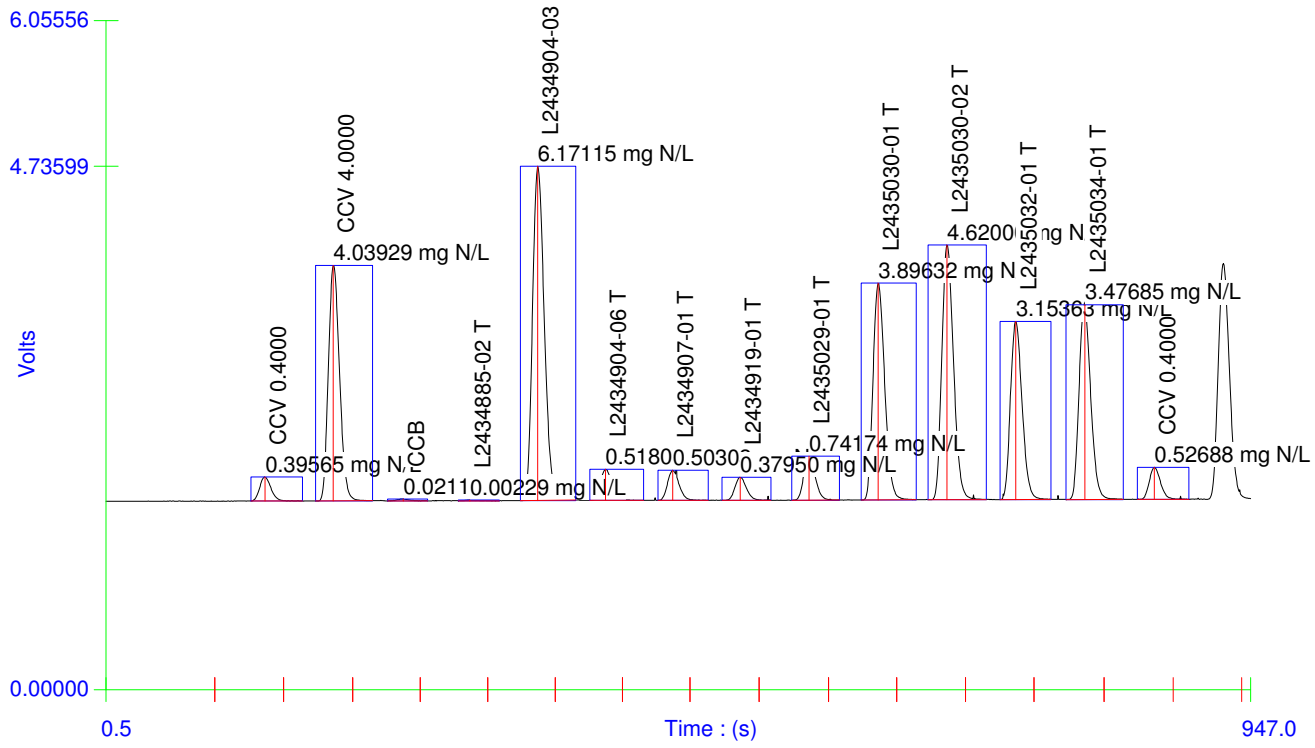
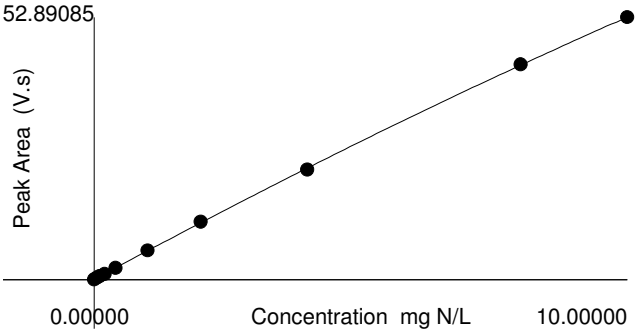


Table : 1 (Ammonia)

	Known Conc. (mg N/L)	Rep.	Peak Area (V.s)	Peak Height (V)	% RSD	% Residual	Det. Conc (mg N/L)	Detection Date	Detection Time
1	10.00000	1	52.89085	4.72249	0.0	0.0	9.98675	6/27/2024	11:53:54 AM
2	8.00000	1	43.34124	3.97036	0.0	-0.3	8.03675	6/27/2024	11:54:51 AM
3	4.00000	1	22.15942	2.10359	0.0	1.6	3.93942	6/27/2024	11:55:48 AM
4	2.00000	1	11.72232	1.10297	0.0	-1.9	2.03604	6/27/2024	11:56:45 AM
5	1.00000	1	5.87825	0.55585	0.0	-0.6	1.00359	6/27/2024	11:57:42 AM
6	0.40000	1	2.37990	0.22321	0.0	0.4	0.39699	6/27/2024	11:58:41 AM
7	0.20000	1	1.16574	0.10807	0.0	5.2	0.18846	6/27/2024	11:59:39 AM
8	0.10000	1	0.68317	0.05835	0.0	-5.4	0.10587	6/27/2024	12:00:37 PM
9	0.05000	1	0.37357	0.03203	0.0	-4.7	0.05297	6/27/2024	12:01:35 PM
10	0.00000	1	0.04487	0.00317			-0.00313	6/27/2024	12:02:31 PM

Figure : 1 (Ammonia)



Area = - 0.05468 * Conc^2 + 5.83039 * Conc + 0.06557
Conc = 0.00035 * Area^2 + 0.17050 * Area - 0.01078
Correlation Coefficient (r) = 1.00000

Weighting : 1/x

Author: A1WETCHEMINSTRUMENT Date : 6/27/2024

Original Run Filename: OM_6-27-2024_12-44-02PM.OMN Created: 6/27/2024 12:44:02 PM
Original Run Author's Signature: [A1WETCHEMINSTRUMENT]
Current Run Filename: OM_6-27-2024_12-44-02PM.OMN Last Modified: 6/27/2024 12:57:06 PM
Current Run Author's Signature: [A1WETCHEMINSTRUMENT]
Description: Default New Run

Sample	Rep.	Cup No.	Channel 2 Ammonia (mg N/L)	ADF	MDF	Weight	TRAY A
CCV 0.4000	1	S6	0.39649				99%
	Known Conc:		100.00000				
CCV 4.0000	1	S3	4.05685				101%
	Known Conc:		100.00000				
	Calibration:		Table/Fig. : 1				
CCB	1	S10	0.02398				
	Known Conc:		100.00000				
L2435035-01 T	1	21	1.58682		30.00		
L2436235-01 T	1	22	0.15785		3.00		
L2436235-02 T	1	23	0.28187		3.00		
CCV 0.4000	1	S6	0.40084				100%
	Known Conc:		100.00000				
CCV 4.0000	1	S3	4.05115				101%
	Known Conc:		100.00000				
CCB	1	S10	0.02456				
	Known Conc:		100.00000				

Channel 2 (Ammonia High) - Current View

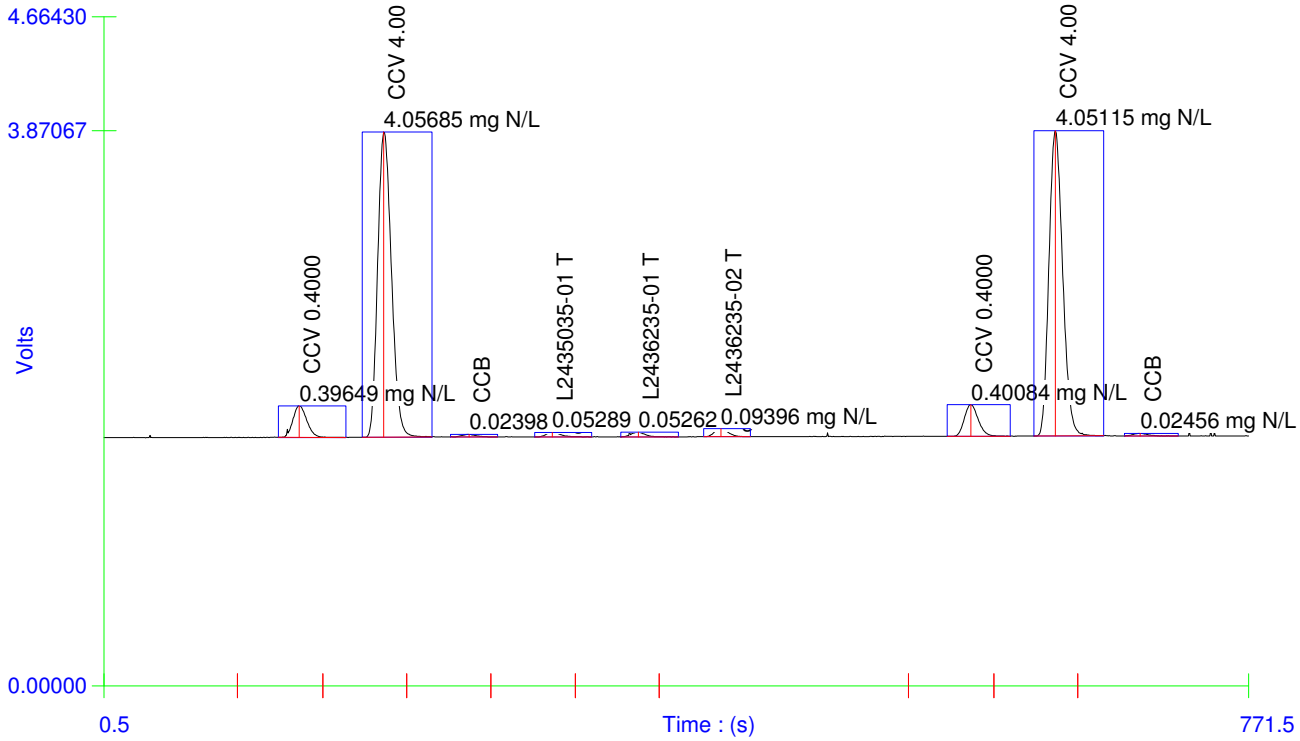
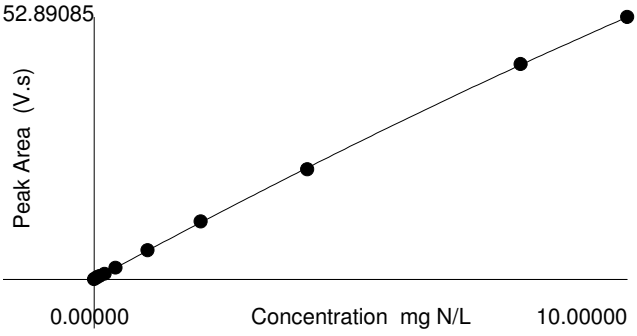


Table : 1 (Ammonia)

	Known Conc. (mg N/L)	Rep.	Peak Area (V.s)	Peak Height (V)	% RSD	% Residual	Det. Conc (mg N/L)	Detection Date	Detection Time
1	10.00000	1	52.89085	4.72249	0.0	0.0	9.98675	6/27/2024	11:53:54 AM
2	8.00000	1	43.34124	3.97036	0.0	-0.3	8.03675	6/27/2024	11:54:51 AM
3	4.00000	1	22.15942	2.10359	0.0	1.6	3.93942	6/27/2024	11:55:48 AM
4	2.00000	1	11.72232	1.10297	0.0	-1.9	2.03604	6/27/2024	11:56:45 AM
5	1.00000	1	5.87825	0.55585	0.0	-0.6	1.00359	6/27/2024	11:57:42 AM
6	0.40000	1	2.37990	0.22321	0.0	0.4	0.39699	6/27/2024	11:58:41 AM
7	0.20000	1	1.16574	0.10807	0.0	5.2	0.18846	6/27/2024	11:59:39 AM
8	0.10000	1	0.68317	0.05835	0.0	-5.4	0.10587	6/27/2024	12:00:37 PM
9	0.05000	1	0.37357	0.03203	0.0	-4.7	0.05297	6/27/2024	12:01:35 PM
10	0.00000	1	0.04487	0.00317			-0.00313	6/27/2024	12:02:31 PM

Figure : 1 (Ammonia)



Area = - 0.05468 * Conc^2 + 5.83039 * Conc + 0.06557
Conc = 0.00035 * Area^2 + 0.17050 * Area - 0.01078
Correlation Coefficient (r) = 1.00000

Weighting : 1/x

Author: A1WETCHEMINSTRUMENT Date : 6/27/2024

Original Run Filename: OM_6-27-2024_01-01-04PM.OMN Created: 6/27/2024 1:01:04 PM
Original Run Author's Signature: [A1WETCHEMINSTRUMENT]
Current Run Filename: OM_6-27-2024_01-01-04PM.OMN Last Modified: 6/27/2024 1:20:07 PM
Current Run Author's Signature: [A1WETCHEMINSTRUMENT]
Description: Default New Run

Sample	Rep.	Cup No.	Channel 2 Ammonia (mg N/L)	ADF	MDF	Weight	TRAY B
CCV 0.4000	1	S6	0.39840				100%
	Known Conc:		100.00000				
	Calibration:		Table/Fig. : 1				
CCV 4.0000	1	S3	4.05106				101%
	Known Conc:		100.00000				
CCB	1	S10	0.02478				
	Known Conc:		100.00000				
WG1939874-1	1	1	0.02250		1.50		
WG1939874-2	1	2	20.89226		7.50		104%
LCS LO	1	3	2.15822		1.50		108%
L2433630-22	1	4	0.09214		1.50		
L2433630-25	1	5	0.02816		1.50		
L2433630-28	1	6	0.01671		1.50		
L2436235-01	1	7	0.00809		1.50		
L2436235-02	1	8	-0.04462		1.50		
WG1939874-4	1	9	4.38624		1.50		110%
WG1939874-3	1	10	0.13597		1.50		RPD=NC
CCV 0.4000	1	S6	0.40348				101%
	Known Conc:		100.00000				
CCV 4.0000	1	S3	4.07989				102%
	Known Conc:		100.00000				
CCB	1	S10	0.02937				
	Known Conc:		100.00000				

Channel 2 (Ammonia High) - Current View

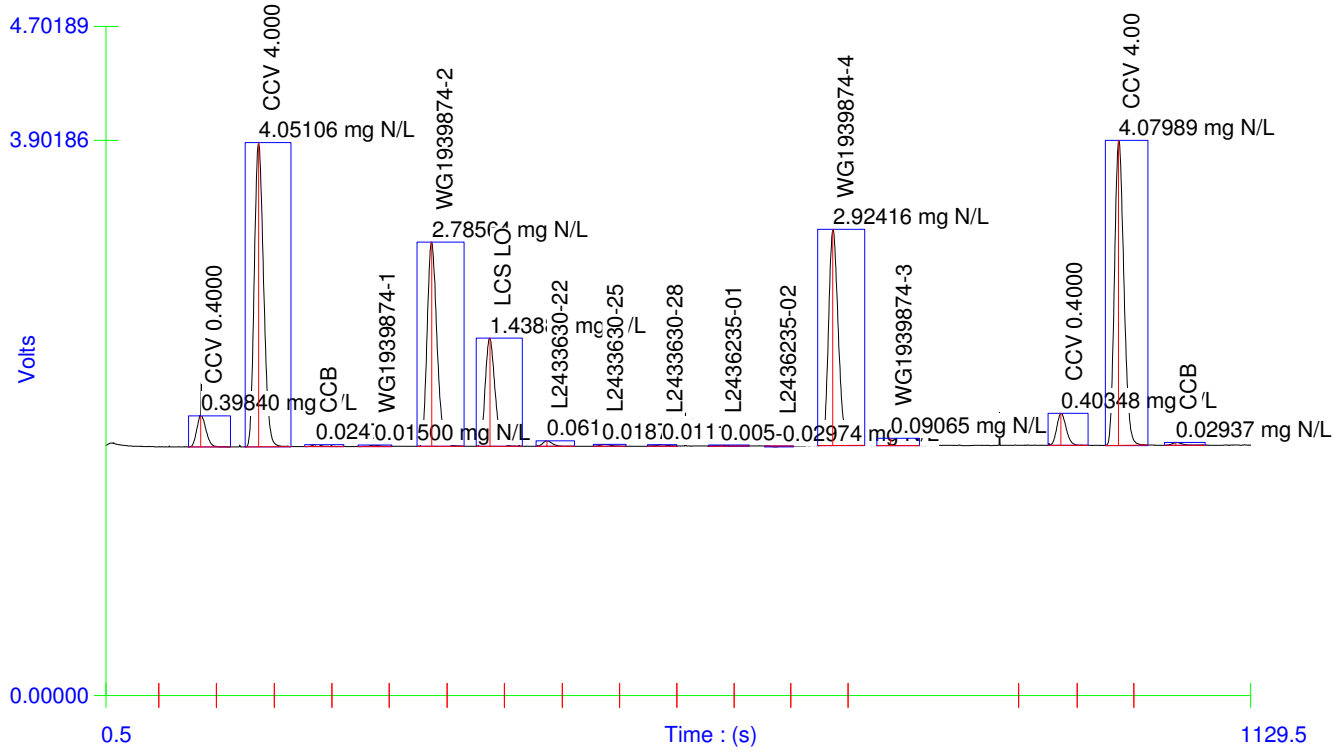
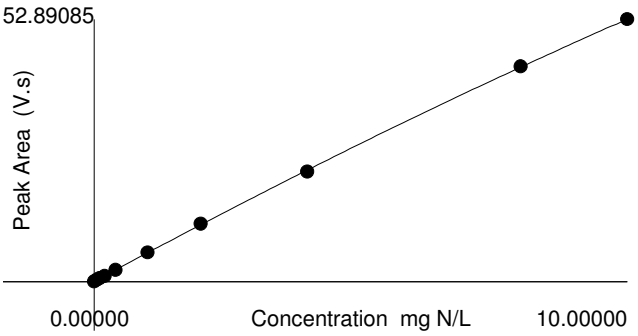


Table : 1 (Ammonia)

	Known Conc. (mg N/L)	Rep.	Peak Area (V.s)	Peak Height (V)	% RSD	% Residual	Det. Conc (mg N/L)	Detection Date	Detection Time
1	10.00000	1	52.89085	4.72249	0.0	0.0	9.98675	6/27/2024	11:53:54 AM
2	8.00000	1	43.34124	3.97036	0.0	-0.3	8.03675	6/27/2024	11:54:51 AM
3	4.00000	1	22.15942	2.10359	0.0	1.6	3.93942	6/27/2024	11:55:48 AM
4	2.00000	1	11.72232	1.10297	0.0	-1.9	2.03604	6/27/2024	11:56:45 AM
5	1.00000	1	5.87825	0.55585	0.0	-0.6	1.00359	6/27/2024	11:57:42 AM
6	0.40000	1	2.37990	0.22321	0.0	0.4	0.39699	6/27/2024	11:58:41 AM
7	0.20000	1	1.16574	0.10807	0.0	5.2	0.18846	6/27/2024	11:59:39 AM
8	0.10000	1	0.68317	0.05835	0.0	-5.4	0.10587	6/27/2024	12:00:37 PM
9	0.05000	1	0.37357	0.03203	0.0	-4.7	0.05297	6/27/2024	12:01:35 PM
10	0.00000	1	0.04487	0.00317			-0.00313	6/27/2024	12:02:31 PM

Figure : 1 (Ammonia)



Area = - 0.05468 * Conc^2 + 5.83039 * Conc + 0.06557
Conc = 0.00035 * Area^2 + 0.17050 * Area - 0.01078
Correlation Coefficient (r) = 1.00000

Weighting : 1/x

Original Run Filename: OM_6-27-2024_02-31-51PM.OMN Created: 6/27/2024 2:31:51 PM
Original Run Author's Signature: [A1WETCHEMINSTRUMENT]
Current Run Filename: OM_6-27-2024_02-31-51PM.OMN Last Modified: 6/27/2024 3:08:21 PM
Current Run Author's Signature: [A1WETCHEMINSTRUMENT]
Description: Default New Run

	Sample	Rep.	Cup No.	Channel 2 Ammonia (mg N/L)	ADF	MDF	Weight	
								TRAY C
	CCV 0.4000	1	S6	0.38687				97%
			Known Conc:	100.00000				
			Calibration:	Table/Fig. : 1				
	CCV 4.0000	1	S3	4.08683				102%
			Known Conc:	100.00000				
	CCB	1	S10	0.01789				
			Known Conc:	100.00000				
	WG1939567-1 T	1	1	0.00322				
	WG1939567-2 T	1	2	38.76793		15.00		97%
	LCS LO T	1	3	4.05829		3.00		101%
	L2434578-01 T	1	4	0.29448		6.00		
X	L2434591-01 T	1	5	48.73516		3.00		
X	L2434593-01 T	1	6	9.06593		6.00		
	L2434595-01 T	1	7	8.80333		3.00		
	L2434679-01 T	1	8	0.42080		3.00		
	L2434679-02 T	1	9	0.38503		3.00		
	L2434679-03 T	1	10	0.73948		3.00		
	CCV 0.4000	1	S6	0.40782				102%
			Known Conc:	100.00000				
	CCV 4.0000	1	S3	4.10984				103%
			Known Conc:	100.00000				
	CCB	1	S10	0.03279				
			Known Conc:	100.00000				
	L2434679-04 T	1	11	1.20216		3.00		
	L2434679-05 T	1	12	0.05177		3.00		
	L2434679-06 T	1	13	0.11641		3.00		
	L2434679-07 T	1	14	0.08228		3.00		
	L2434679-08 T	1	15	0.04842		3.00		
	L2434679-09 T	1	16	0.26944		3.00		
	L2434679-10 T	1	17	0.00315		3.00		
	L2434679-11 T	1	18	0.05007		3.00		
	L2434679-14 T	1	19	0.10611		3.00		
	WG1939567-3 T	1	20	0.06344		3.00		RPD=NC
	CCV 0.4000	1	S6	0.39848				100%
			Known Conc:	100.00000				
	CCV 4.0000	1	S3	4.08832				102%
			Known Conc:	100.00000				
	CCB	1	S10	0.02659				
			Known Conc:	100.00000				
	WG1939567-4 T	1	21	8.95791		3.00		112%
	L2435116-01 T	1	22	1.12540		3.00		
	L2434591-01 T; 10X	1	5	50.29750		30.00		
	L2434593-01 T	1	6	7.31458		6.00		
X	CCV 0.4000	1	S6	0.45193				123%, RERUN OK
			Known Conc:	100.00000				

Channel 2 (Ammonia High) - Current View

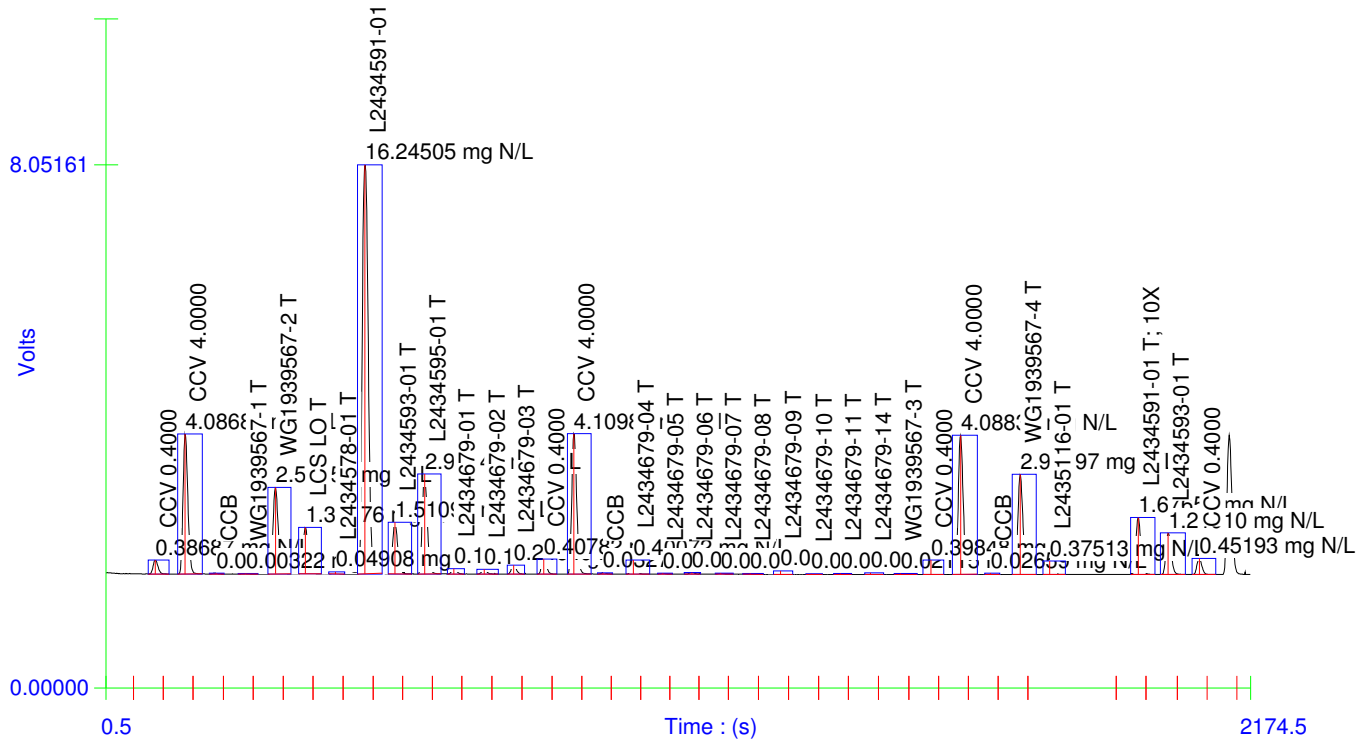
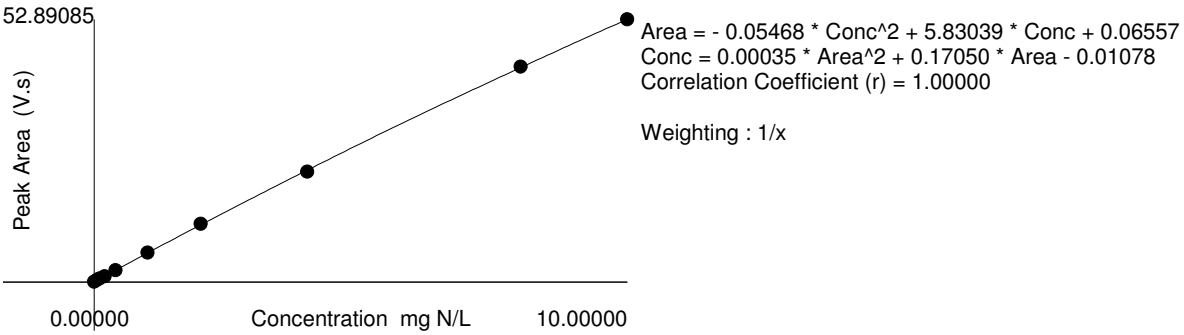


Table : 1 (Ammonia)

	Known Conc. (mg N/L)	Rep.	Peak Area (V.s)	Peak Height (V)	% RSD	% Residual	Det. Conc (mg N/L)	Detection Date	Detection Time
1	10.00000	1	52.89085	4.72249	0.0	0.0	9.98675	6/27/2024	11:53:54 AM
2	8.00000	1	43.34124	3.97036	0.0	-0.3	8.03675	6/27/2024	11:54:51 AM
3	4.00000	1	22.15942	2.10359	0.0	1.6	3.93942	6/27/2024	11:55:48 AM
4	2.00000	1	11.72232	1.10297	0.0	-1.9	2.03604	6/27/2024	11:56:45 AM
5	1.00000	1	5.87825	0.55585	0.0	-0.6	1.00359	6/27/2024	11:57:42 AM
6	0.40000	1	2.37990	0.22321	0.0	0.4	0.39699	6/27/2024	11:58:41 AM
7	0.20000	1	1.16574	0.10807	0.0	5.2	0.18846	6/27/2024	11:59:39 AM
8	0.10000	1	0.68317	0.05835	0.0	-5.4	0.10587	6/27/2024	12:00:37 PM
9	0.05000	1	0.37357	0.03203	0.0	-4.7	0.05297	6/27/2024	12:01:35 PM
10	0.00000	1	0.04487	0.00317			-0.00313	6/27/2024	12:02:31 PM

Figure : 1 (Ammonia)



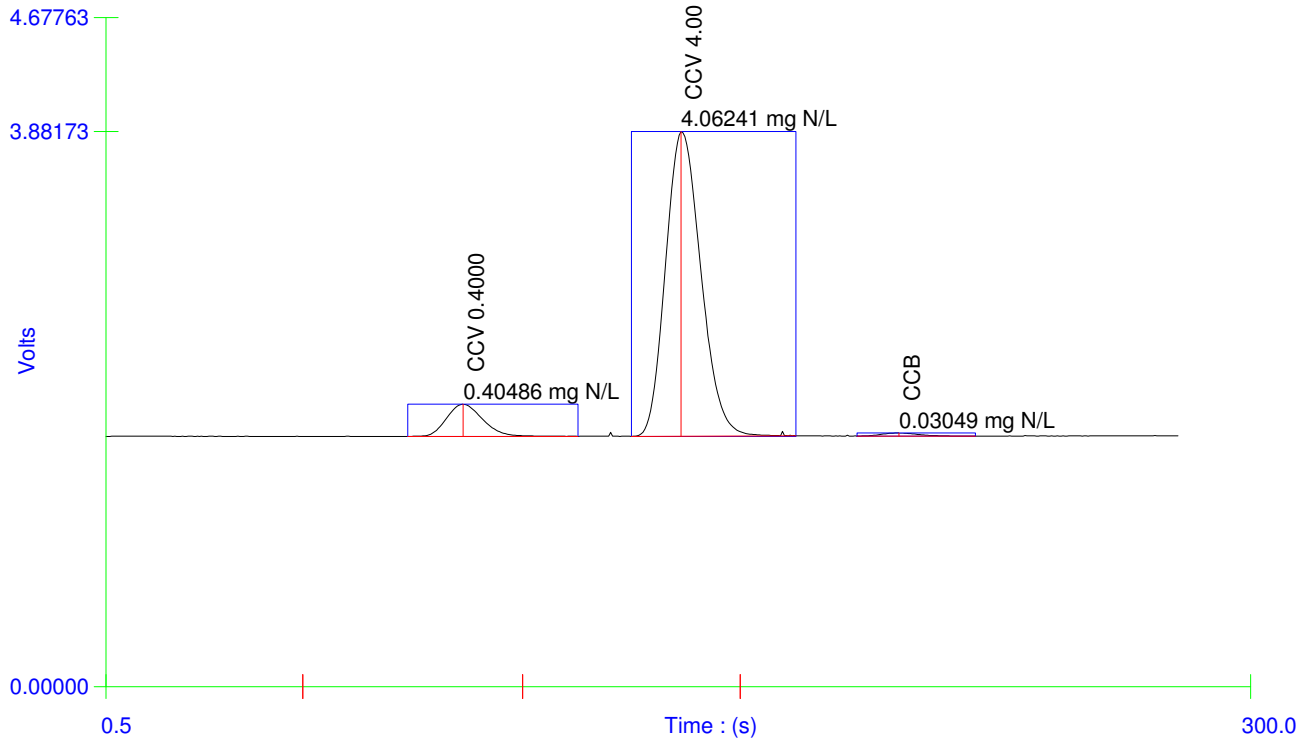
Author: A1WETCHEMINSTRUMENT Date : 6/27/2024

Original Run Filename: OM_6-27-2024_03-10-32PM.OMN Created: 6/27/2024 3:10:32 PM
Original Run Author's Signature: [A1WETCHEMINSTRUMENT]
Current Run Filename: OM_6-27-2024_03-10-32PM.OMN Last Modified: 6/27/2024 3:15:24 PM
Current Run Author's Signature: [A1WETCHEMINSTRUMENT]
Description: Default New Run

TRAY C

Sample	Rep.	Cup No.	Channel 2 Ammonia (mg N/L)	ADF	MDF	Weight	
CCV 0.4000	1	S6	0.40486				101%
		Known Conc:	100.00000				
CCV 4.0000	1	S3	4.06241				102%
		Known Conc:	100.00000				
		Calibration:	Table/Fig. : 1				
CCB	1	S10	0.03049				
		Known Conc:	100.00000				

Channel 2 (Ammonia High) - Current View

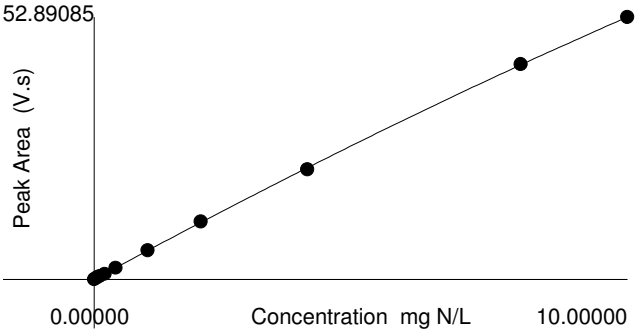


Author: A1WETCHEMINSTRUMENT Date : 6/27/2024

Table : 1 (Ammonia)

	Known Conc. (mg N/L)	Rep.	Peak Area (V.s)	Peak Height (V)	% RSD	% Residual	Det. Conc (mg N/L)	Detection Date	Detection Time
1	10.00000	1	52.89085	4.72249	0.0	0.0	9.98675	6/27/2024	11:53:54 AM
2	8.00000	1	43.34124	3.97036	0.0	-0.3	8.03675	6/27/2024	11:54:51 AM
3	4.00000	1	22.15942	2.10359	0.0	1.6	3.93942	6/27/2024	11:55:48 AM
4	2.00000	1	11.72232	1.10297	0.0	-1.9	2.03604	6/27/2024	11:56:45 AM
5	1.00000	1	5.87825	0.55585	0.0	-0.6	1.00359	6/27/2024	11:57:42 AM
6	0.40000	1	2.37990	0.22321	0.0	0.4	0.39699	6/27/2024	11:58:41 AM
7	0.20000	1	1.16574	0.10807	0.0	5.2	0.18846	6/27/2024	11:59:39 AM
8	0.10000	1	0.68317	0.05835	0.0	-5.4	0.10587	6/27/2024	12:00:37 PM
9	0.05000	1	0.37357	0.03203	0.0	-4.7	0.05297	6/27/2024	12:01:35 PM
10	0.00000	1	0.04487	0.00317			-0.00313	6/27/2024	12:02:31 PM

Figure : 1 (Ammonia)



Area = - 0.05468 * Conc^2 + 5.83039 * Conc + 0.06557
Conc = 0.00035 * Area^2 + 0.17050 * Area - 0.01078
Correlation Coefficient (r) = 1.00000

Weighting : 1/x

Quality Control

Form 5a
Matrix Spike

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Client Sample ID	: MW-8B2	**Matrix**	: WATER
Lab Sample ID	: L2434679-14		
Matrix Spike	: WG1939567-4	**MS Analysis Date**	: 06/27/24 15:00
Matrix Spike Dup	:	**MSD Analysis Date**	:

		Matrix Spike Sample				Matrix Spike Duplicate					
Parameter	Sample Conc. (mg/l)	Spike Added (mg/l)	Spike Conc. (mg/l)	%R		Spike Added (mg/l)	Spike Conc. (mg/l)	%R	RPD	Recovery Limits	RPD Limit
Nitrogen, Total Kjeldahl	0.106J	8	8.96	112	Q					77-111	24

Form 6
Lab Duplicates

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Client Sample ID	: MW-8B2	**Matrix**	: WATER
Lab Sample ID	: L2434679-14	**Analysis Date**	: 06/27/24 14:55
Dup Sample ID	: WG1939567-3	**DUP Analysis Date**	: 06/27/24 14:56

Parameter	Sample Concentration (mg/l)	Duplicate Concentration (mg/l)	RPD	RPD Limit
Nitrogen, Total Kjeldahl	0.106J	ND	NC	24

Form 7
Laboratory Control Sample

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Client Sample ID	: NA	**Matrix**	: WATER
Lab Sample ID	: WG1939567-2	**LCS Analysis Date**	: 06/27/24 14:36
Dup Sample ID	:	**LCSD Analysis Date**	:

	Laboratory Control Sample			Laboratory Control Duplicate					
Parameter	**True (mg/l)**	**Found (mg/l)**	**%R**	**True (mg/l)**	**Found (mg/l)**	**%R**	**RPD**	**Recovery Limits**	**RPD Limit**
Nitrogen, Total Kjeldahl	**40.0**	**38.8**	**97.**					**78-122**	**24**

Date Created: 11/11/21
Created By: Jason Hebert
File: PM11467-1
Page: 1

WETCHEM (WATER)

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Method	Holding Time	Container/Sample Preservation
Nitrogen, Total Kjeldahl	NONE	0.3	0.066	mg/l	78-122		77-111	24	24	4500NH3-H	28 days	1 - Plastic 500ml H2SO4 preserved
Nitrogen, Total Kjeldahl	NONE	0.3	0.066	mg/l	78-122		77-111	24	24	351.1	28 days	1 - Plastic 500ml H2SO4 preserved

Please Note that the RL information provided in this table is calculated using a 100% Solids factor. (Soil/Solids only)
Please Note that the information provided in this table is subject to change at anytime at the discretion of Alpha Analytical, Inc.

Date Created: 11/11/21
Created By: Jason Hebert
File: PM11468-1
Page: 1

WETCHEM (SOIL)

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Method	Holding Time	Container/Sample Preservation
Nitrogen, Total Kjeldahl	NONE	150	31.5	mg/kg	81-115	26	43-160	26	26	4500NH3-H	28 days	1 - Glass 250ml/8oz unpreserved

Please Note that the RL information provided in this table is calculated using a 100% Solids factor. (Soil/Solids only)
Please Note that the information provided in this table is subject to change at anytime at the discretion of Alpha Analytical, Inc.

Calculations of Nitrogen in TKN

Aqueous samples:

Compute sample TKN –N concentration by comparing sample peak areas with standard curve, as determined by the Lachat instrument software.

If the sample has a concentration of less than 2ppm, calculate results by using the low curve generated on Channel 1.

If the sample concentration is greater than 2ppm, calculate the results by using the high curve generated on Channel 2.

To Compute the final results for aqueous samples, multiply the direct reading by the dilution factor based on the initial preparation volume. (also done using software)

TKN-N mg/L = mg/L direct reading x dilution factor

Sequence Logs

From Page No. ____

Tray A(11-50-05AM, 12-22-51PM, 12-44-02PM)
prep 6/26/24 @22:51

1	Mi ICV 8.0
2	Lo ICV 1.0
3	ICB
4	WG1939878-1T, BLK
5	-2T, LCS Hi, 5X
6	LCS Lo T
7	34847-01T
8	-01T MS
9	-01T Dup
10	34850-01T(5X)
11	34885-02T
12	34904-03T(5X)
13	-06T
14	34907-01T
15	34919-01T
16	35029-01T
17	35030-01T(5X)
18	-02T(5X)
19	35032-01T(5X)
20	35034-01T(10X)
21	35035-01T(10X)
22	36235-01T
23	-02T

Tray B(01-01-04PM)
prep 6/26/24 @22:55

1	WG1939874-1, BLK
2	-2, LCS Hi, 5X
3	LCS Lo
4	33630-22
5	-25
6	-28
7	36235-01
8	-02
9	-02 MS
10	-02 Dup

1	
2	
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10	WEP
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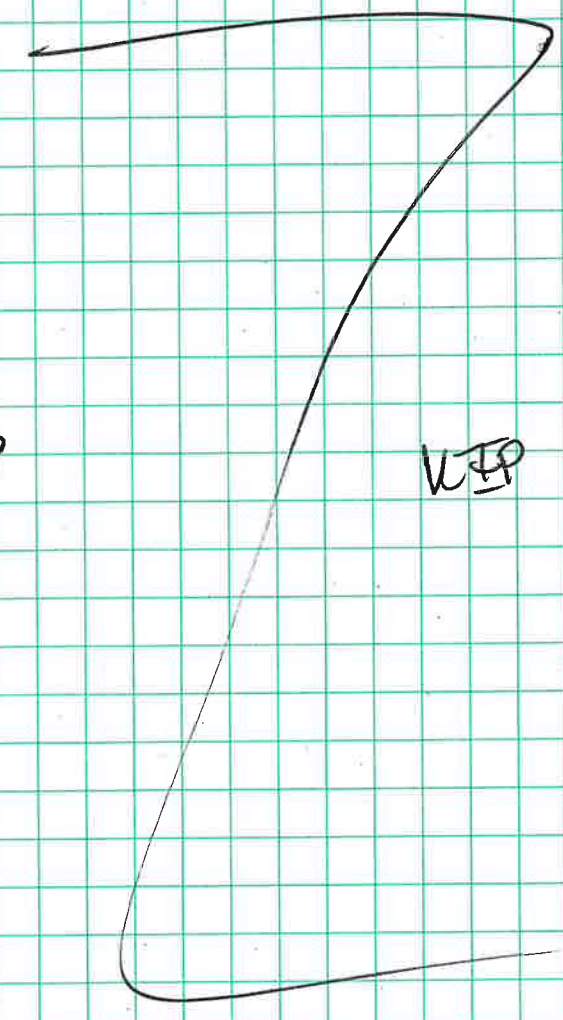
22	



Date: 6/27/24
Sodium Phenolate: 5/27/24 R-4065
Sodium Hypochlorate: 5/27/24 stop+shop
Sodium Nitropruisside: 5/27/24 R-3969
Borric Acid Soln.: 5/27/24 R-4016
ICV 1.0: 6/4/24 WC-3433
ICV 8.0:
Cal. Std: 6/4/24 WC-3392
See Front Page for Instructions:

To Page No. ____

Witnessed & Understood by me, Date

Invented by: Date

Recorded by:

TITLE NH3 6/27/24 KTP cont.

Project No.

Book No.

Confident

From Page No.

Tray C (02-31-51PM, 03-10-32PM)
prep @16:43 6/26/24

1	WG1939567-1T; Blk	
2	-2T; LCS Hi; 5X	
3	LCS Lo T	
4	~~KTP~~ 43 34578-01T (2x)	
5	34591-01T; DX 1:10	
6	34593-01T (2x)	
7	34595-01T	
8	34679-01T	
9	02T	
10	03T	
11	04T	
12	05T	
13	06T	
14	07T	
15	08T	
16	09T	
17	10T	
18	11T	
19	14T	
20	14T Dup	
21	14T MS	
22	35116-01T	
~~23~~	KTP	
24		

KTP

Tray D (04-16-32PM)
prep 6/27/24 @13:27

1	WG1940216-1; Blk	
2	-5; LOQ	
3	-2; LCS Hi; 5X	
4	LCS Lo	

To Page No.

Witnessed & Understood by me,

Date

Invented by:

Date

Recorded by:

Sample Preparation

Project No. _____

onfidential Book No. _____ TITLE _____

rom Page No. ____ WG1939567

Sample	Dilution	Volume	Final Vol.
Blank	1x	50mL	150mL
Low			
High			
L2434578-01	2X (25↑50) N=15		
34591-01	1x		
34593-01	2X (25↑50) N=13		
34595-01	1x		
34679-01			
-02			
-03			
-04			
-05			
-06			
-07			
-08			
-09			
-10			
-11			
-14 Pt			
-14 Dup			
-14 MS			
35116-01			

Same Std's 06 26 24 @ 16:43 SAD

of Reagents

as previous

pg # 77

To Page No. ____

Witnessed & Understood by me, | Date | Invented by: | Date

Recorded by:

Ammonia Analysis

Results

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Lab ID	: L2434679-01	**Date Collected**	: 06/19/24 09:30
Client ID	: MW-3A	**Date Received**	: 06/19/24
Sample Location	: MANORVILLE, NY	**Date Analyzed**	: 06/26/24 17:24
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 44,350.1	**Analyst**	: AT
Lab File ID	: NH320240626-D	**Instrument ID**	: LACHAT
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 06/26/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7664-41-7	Nitrogen, Ammonia	0.292	0.075	0.024	

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Lab ID	: L2434679-02	**Date Collected**	: 06/18/24 16:35
Client ID	: MW-6A	**Date Received**	: 06/19/24
Sample Location	: MANORVILLE, NY	**Date Analyzed**	: 06/26/24 17:25
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 44,350.1	**Analyst**	: AT
Lab File ID	: NH320240626-D	**Instrument ID**	: LACHAT
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 06/26/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7664-41-7	Nitrogen, Ammonia	0.277	0.075	0.024	

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Lab ID	: L2434679-03	**Date Collected**	: 06/18/24 14:50
Client ID	: MW-6B	**Date Received**	: 06/19/24
Sample Location	: MANORVILLE, NY	**Date Analyzed**	: 06/26/24 17:29
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 44,350.1	**Analyst**	: AT
Lab File ID	: NH320240626-D	**Instrument ID**	: LACHAT
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 06/26/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7664-41-7	Nitrogen, Ammonia	0.548	0.075	0.024	

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Lab ID	: L2434679-04	**Date Collected**	: 06/18/24 14:49
Client ID	: MW-6C	**Date Received**	: 06/19/24
Sample Location	: MANORVILLE, NY	**Date Analyzed**	: 06/26/24 17:30
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 44,350.1	**Analyst**	: AT
Lab File ID	: NH320240626-D	**Instrument ID**	: LACHAT
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 06/26/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7664-41-7	Nitrogen, Ammonia	0.939	0.075	0.024	

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Lab ID	: L2434679-05	**Date Collected**	: 06/18/24 10:15
Client ID	: MW-7A	**Date Received**	: 06/19/24
Sample Location	: MANORVILLE, NY	**Date Analyzed**	: 06/27/24 18:05
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 44,350.1	**Analyst**	: AT
Lab File ID	: NH320240627-E	**Instrument ID**	: LACHAT
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 06/26/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7664-41-7	Nitrogen, Ammonia	0.051	0.075	0.024	J

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Lab ID	: L2434679-06	**Date Collected**	: 06/18/24 12:05
Client ID	: MW-7B	**Date Received**	: 06/19/24
Sample Location	: MANORVILLE, NY	**Date Analyzed**	: 06/26/24 17:31
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 44,350.1	**Analyst**	: AT
Lab File ID	: NH320240626-D	**Instrument ID**	: LACHAT
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 06/26/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7664-41-7	Nitrogen, Ammonia	0.077	0.075	0.024	

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Lab ID	: L2434679-07	**Date Collected**	: 06/18/24 12:12
Client ID	: MW-7C	**Date Received**	: 06/19/24
Sample Location	: MANORVILLE, NY	**Date Analyzed**	: 06/26/24 17:32
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 44,350.1	**Analyst**	: AT
Lab File ID	: NH320240626-D	**Instrument ID**	: LACHAT
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 06/26/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7664-41-7	Nitrogen, Ammonia	0.024	0.075	0.024	J

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Lab ID	: L2434679-08	**Date Collected**	: 06/18/24 16:47
Client ID	: MW-8A	**Date Received**	: 06/19/24
Sample Location	: MANORVILLE, NY	**Date Analyzed**	: 06/27/24 18:06
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 44,350.1	**Analyst**	: AT
Lab File ID	: NH320240627-E	**Instrument ID**	: LACHAT
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 06/26/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7664-41-7	Nitrogen, Ammonia	ND	0.075	0.024	U

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Lab ID	: L2434679-09	**Date Collected**	: 06/18/24 18:25
Client ID	: MW-8B	**Date Received**	: 06/19/24
Sample Location	: MANORVILLE, NY	**Date Analyzed**	: 06/27/24 18:07
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 44,350.1	**Analyst**	: AT
Lab File ID	: NH320240627-E	**Instrument ID**	: LACHAT
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 06/26/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7664-41-7	Nitrogen, Ammonia	0.286	0.075	0.024	

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Lab ID	: L2434679-10	**Date Collected**	: 06/19/24 11:00
Client ID	: MW-9B	**Date Received**	: 06/19/24
Sample Location	: MANORVILLE, NY	**Date Analyzed**	: 06/27/24 18:10
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 44,350.1	**Analyst**	: AT
Lab File ID	: NH320240627-E	**Instrument ID**	: LACHAT
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 06/26/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7664-41-7	Nitrogen, Ammonia	ND	0.075	0.024	U

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Lab ID	: L2434679-11	**Date Collected**	: 06/18/24 00:00
Client ID	: DUP	**Date Received**	: 06/19/24
Sample Location	: MANORVILLE, NY	**Date Analyzed**	: 06/27/24 18:11
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 44,350.1	**Analyst**	: AT
Lab File ID	: NH320240627-E	**Instrument ID**	: LACHAT
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 06/26/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7664-41-7	Nitrogen, Ammonia	0.029	0.075	0.024	J

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Lab ID	: L2434679-14	**Date Collected**	: 06/18/24 18:07
Client ID	: MW-8B2	**Date Received**	: 06/19/24
Sample Location	: MANORVILLE, NY	**Date Analyzed**	: 06/27/24 18:12
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 44,350.1	**Analyst**	: AT
Lab File ID	: NH320240627-E	**Instrument ID**	: LACHAT
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 06/26/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7664-41-7	Nitrogen, Ammonia	ND	0.075	0.024	U

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Lab ID	: WG1939578-1	**Date Collected**	: NA
Client ID	: WG1939578-1BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 06/26/24 17:17
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 44,350.1	**Analyst**	: AT
Lab File ID	: NH320240626-D	**Instrument ID**	: LACHAT
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 06/26/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7664-41-7	Nitrogen, Ammonia	ND	0.075	0.024	U

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Lab ID	: WG1939578-3	**Date Collected**	: 06/18/24 12:12
Client ID	: MW-7CDUP	**Date Received**	: 06/19/24
Sample Location	:	**Date Analyzed**	: 06/26/24 17:34
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 44,350.1	**Analyst**	: AT
Lab File ID	: NH320240626-D	**Instrument ID**	: LACHAT
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 06/26/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7664-41-7	Nitrogen, Ammonia	0.174	0.075	0.024	

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Lab ID	: WG1939872-1	**Date Collected**	: NA
Client ID	: WG1939872-1BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 06/27/24 17:46
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 44,350.1	**Analyst**	: AT
Lab File ID	: NH320240627-E	**Instrument ID**	: LACHAT
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 06/26/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7664-41-7	Nitrogen, Ammonia	0.027	0.075	0.024	J

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Lab ID	: WG1939872-3	**Date Collected**	: 06/19/24 07:50
Client ID	: WG1939872-3 DUP	**Date Received**	: 06/19/24
Sample Location	:	**Date Analyzed**	: 06/27/24 17:51
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 44,350.1	**Analyst**	: AT
Lab File ID	: NH320240627-E	**Instrument ID**	: LACHAT
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 06/26/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7664-41-7	Nitrogen, Ammonia	0.411	0.075	0.024	

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Lab ID	: WG1939872-5	**Date Collected**	: 06/18/24 18:07
Client ID	: MW-8B2DUP	**Date Received**	: 06/19/24
Sample Location	:	**Date Analyzed**	: 06/27/24 18:14
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 44,350.1	**Analyst**	: AT
Lab File ID	: NH320240627-E	**Instrument ID**	: LACHAT
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 06/26/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7664-41-7	Nitrogen, Ammonia	0.163	0.075	0.024	

Sample Raw Data

Author: A1WETCHEMINSTRUMENT

Date : 6/27/2024

Original Run Filename: OM_6-27-2024_11-50-05AM.OMN Created: 6/27/2024 11:50:05 AM
Original Run Author's Signature: [A1WETCHEMINSTRUMENT]
Current Run Filename: OM_6-27-2024_11-50-05AM.OMN Last Modified: 6/27/2024 12:18:24 PM
Current Run Author's Signature: [A1WETCHEMINSTRUMENT]
Description: Default New Run

	Sample	Rep.	Cup No.	Channel 2 Ammonia (mg N/L)	ADF	MDF	Weight	TRAY A
	STD 1	1	S1	10.00000				
	STD 2	1	S2	8.00000				
	STD 3	1	S3	4.00000				
	STD 4	1	S4	2.00000				
	STD 5	1	S5	1.00000				
	STD 6	1	S6	0.40000				
	STD 7	1	S7	0.20000				
	STD 8	1	S8	0.10000				
	STD 9	1	S9	0.05000				
	STD 10	1	S10	0.00000				
	CCV 0.4000	1	S6	0.38475				96%
		Known Conc:		100.00000				
		Calibration:		Table/Fig. : 1				
	CCV 4.0000	1	S3	3.99205				100%
		Known Conc:		100.00000				
	CCB	1	S10	0.01653				
		Known Conc:		100.00000				
	HI ICV 8.0	1	1	8.40129				105%
	LO ICV 1.0	1	2	1.03753				104%
	ICB	1	3	0.01280				
	WG1939878-1 T	1	4	0.04180				
	WG1939878-2 T	1	5	38.48220		15.00		96%
	LCS LO T	1	6	4.28784		3.00		107%
	L2434847-01 T	1	7	0.53129		3.00		
	WG1939878-4 T	1	8	10.22972		3.00		121%
	WG1939878-3 T	1	9	0.78974		3.00		RPD=39%
	L2434850-01 T	1	10	56.23680		15.00		
X	CCV 0.4000	1	S6	0.52224				131%, RERUN OK
		Known Conc:		100.00000				

Author: A1WETCHEMINSTRUMENT

Date : 6/27/2024

Channel 2 (Ammonia High) - Current View

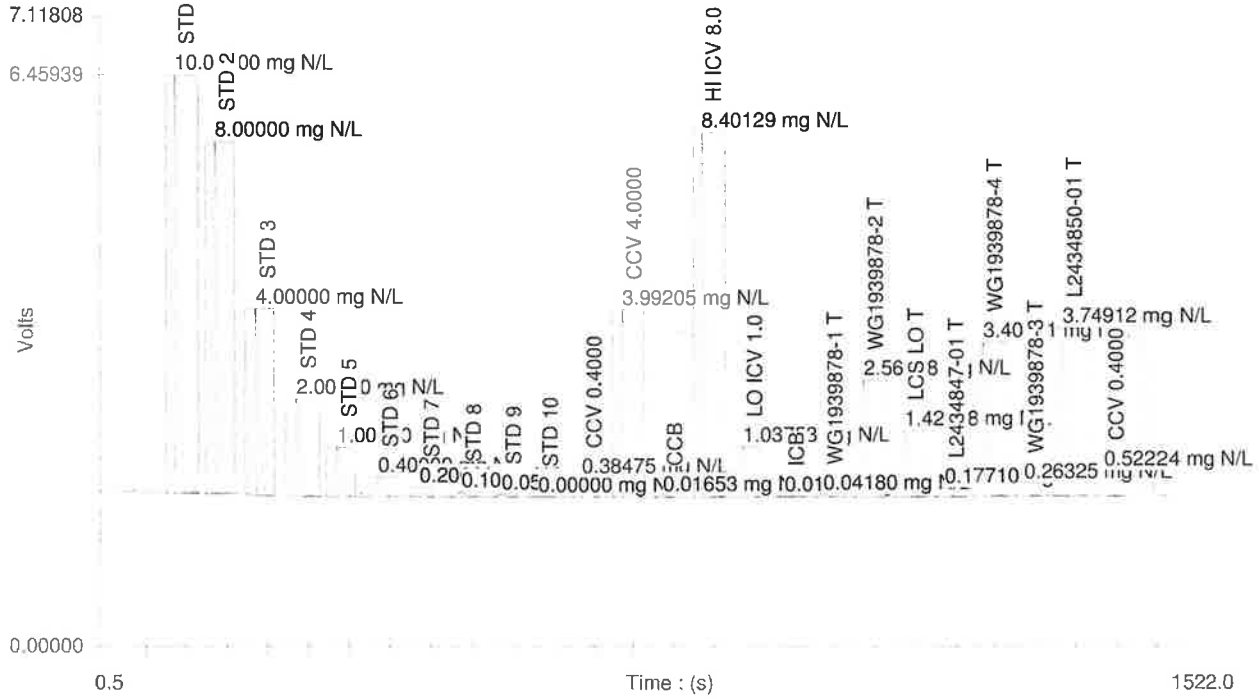
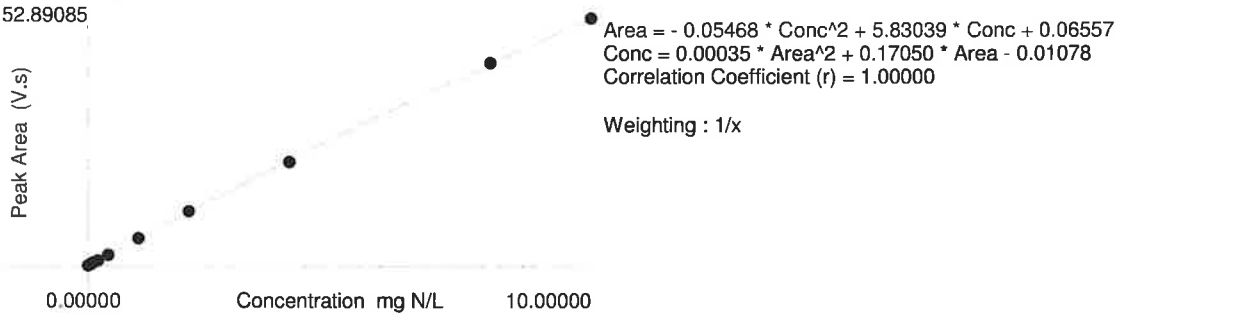


Table : 1 (Ammonia)

	Known Conc. (mg N/L)	Rep.	Peak Area (V.s)	Peak Height (V)	% RSD	% Residual	Det. Conc (mg N/L)	Detection Date	Detection Time
1	10.00000	1	52.89085	4.72249	0.0	0.0	9.98675	6/27/2024	11:53:54 AM
2	8.00000	1	43.34124	3.97036	0.0	-0.3	8.03675	6/27/2024	11:54:51 AM
3	4.00000	1	22.15942	2.10359	0.0	1.6	3.93942	6/27/2024	11:55:48 AM
4	2.00000	1	11.72232	1.10297	0.0	-1.9	2.03604	6/27/2024	11:56:45 AM
5	1.00000	1	5.87825	0.55585	0.0	-0.6	1.00359	6/27/2024	11:57:42 AM
6	0.40000	1	2.37990	0.22321	0.0	0.4	0.39699	6/27/2024	11:58:41 AM
7	0.20000	1	1.16574	0.10807	0.0	5.2	0.18846	6/27/2024	11:59:39 AM
8	0.10000	1	0.68317	0.05835	0.0	-5.4	0.10587	6/27/2024	12:00:37 PM
9	0.05000	1	0.37357	0.03203	0.0	-4.7	0.05297	6/27/2024	12:01:35 PM
10	0.00000	1	0.04487	0.00317			-0.00313	6/27/2024	12:02:31 PM

Figure : 1 (Ammonia)



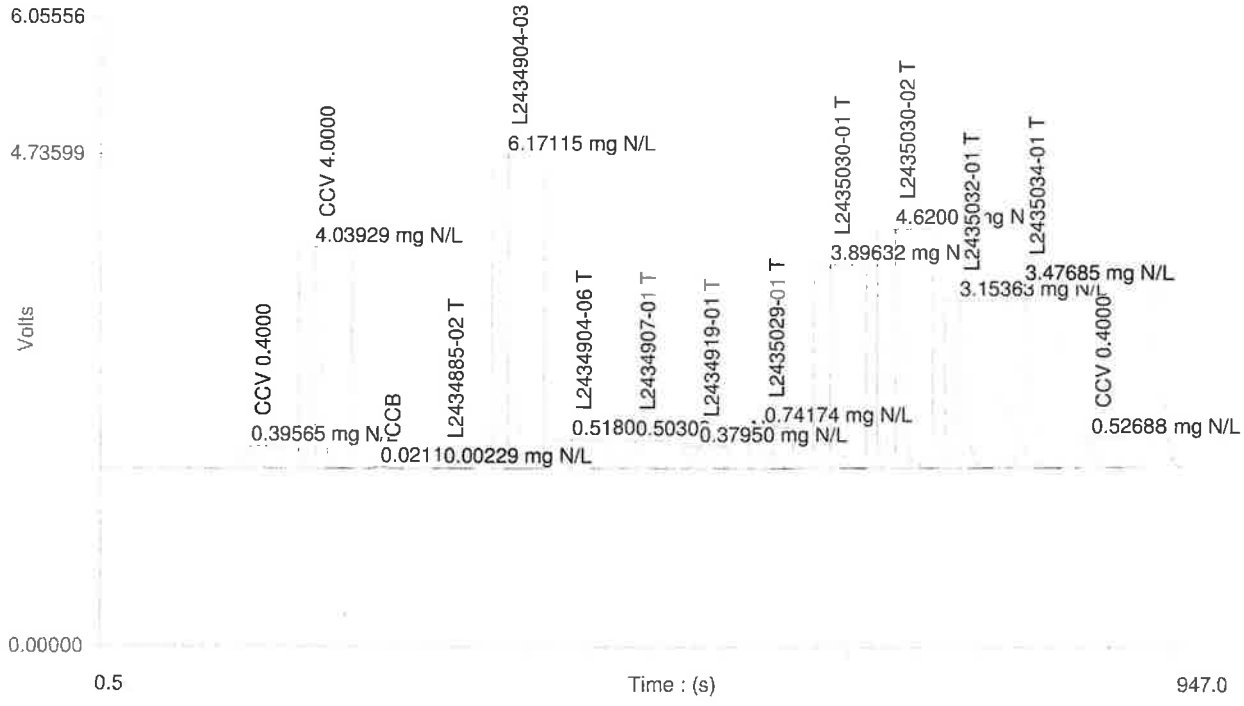
Author: A1WETCHEMINSTRUMENT

Date : 6/27/2024

Original Run Filename: OM_6-27-2024_12-22-51PM.OMN Created: 6/27/2024 12:22:51 PM
Original Run Author's Signature: [A1WETCHEMINSTRUMENT]
Current Run Filename: OM_6-27-2024_12-22-51PM.OMN Last Modified: 6/27/2024 12:39:01 PM
Current Run Author's Signature: [A1WETCHEMINSTRUMENT]
Description: Default New Run

	Sample	Rep.	Cup No.	Channel 2 Ammonia (mg N/L)	ADF	MDF	Weight	TRAY A
	CCV 0.4000	1	S6	0.39565				99%
		Known Conc:		100.00000				
	CCV 4.0000	1	S3	4.03929				101%
		Known Conc:		100.00000				
		Calibration:		Table/Fig. : 1				
	CCB	1	S10	0.02116				
		Known Conc:		100.00000				
	L2434885-02 T	1	11	0.00688		3.00		
	L2434904-03 T	1	12	92.56724		15.00		
	L2434904-06 T	1	13	1.55420		3.00		
	L2434907-01 T	1	14	1.50908		3.00		
	L2434919-01 T	1	15	1.13849		3.00		
	L2435029-01 T	1	16	2.22522		3.00		
	L2435030-01 T	1	17	58.44473		15.00		
	L2435030-02 T	1	18	69.30006		15.00		
	L2435032-01 T	1	19	47.30446		15.00		
	L2435034-01 T	1	20	104.30551		30.00		
X	CCV 0.4000	1	S6	0.52688				132%, RERUN OK
		Known Conc:		100.00000				

Channel 2 (Ammonia High) - Current View



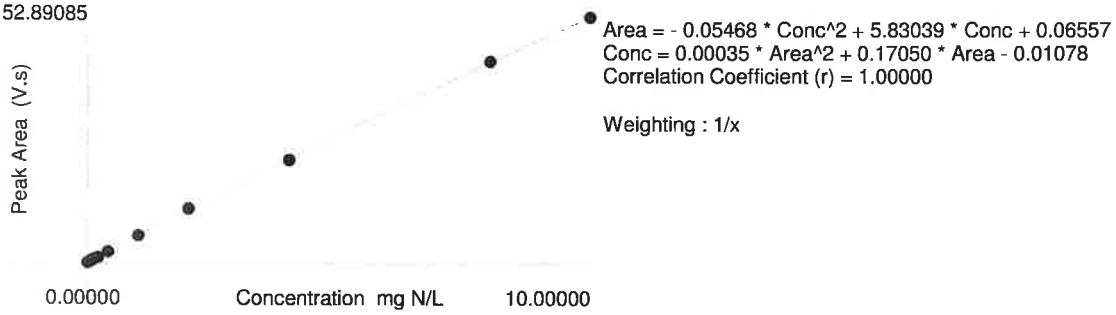
Author: A1WETCHEMINSTRUMENT

Date : 6/27/2024

Table : 1 (Ammonia)

	Known Conc. (mg N/L)	Rep.	Peak Area (V.s)	Peak Height (V)	% RSD	% Residual	Det. Conc (mg N/L)	Detection Date	Detection Time
1	10.00000	1	52.89085	4.72249	0.0	0.0	9.98675	6/27/2024	11:53:54 AM
2	8.00000	1	43.34124	3.97036	0.0	-0.3	8.03675	6/27/2024	11:54:51 AM
3	4.00000	1	22.15942	2.10359	0.0	1.6	3.93942	6/27/2024	11:55:48 AM
4	2.00000	1	11.72232	1.10297	0.0	-1.9	2.03604	6/27/2024	11:56:45 AM
5	1.00000	1	5.87825	0.55585	0.0	-0.6	1.00359	6/27/2024	11:57:42 AM
6	0.40000	1	2.37990	0.22321	0.0	0.4	0.39699	6/27/2024	11:58:41 AM
7	0.20000	1	1.16574	0.10807	0.0	5.2	0.18846	6/27/2024	11:59:39 AM
8	0.10000	1	0.68317	0.05835	0.0	-5.4	0.10587	6/27/2024	12:00:37 PM
9	0.05000	1	0.37357	0.03203	0.0	-4.7	0.05297	6/27/2024	12:01:35 PM
10	0.00000	1	0.04487	0.00317			-0.00313	6/27/2024	12:02:31 PM

Figure : 1 (Ammonia)



Author: A1WETCHEMINSTRUMENT

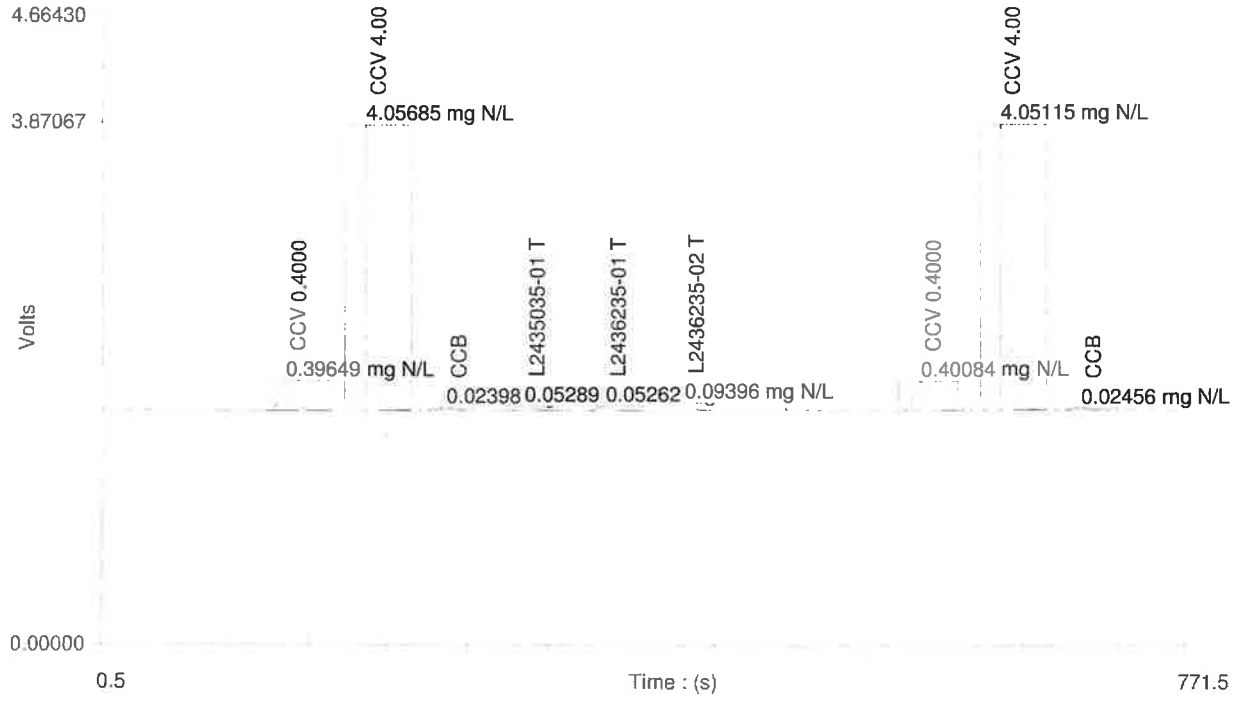
Date : 6/27/2024

Original Run Filename: OM_6-27-2024_12-44-02PM.OMN Created: 6/27/2024 12:44:02 PM
Original Run Author's Signature: [A1WETCHEMINSTRUMENT]
Current Run Filename: OM_6-27-2024_12-44-02PM.OMN Last Modified: 6/27/2024 12:57:06 PM
Current Run Author's Signature: [A1WETCHEMINSTRUMENT]
Description: Default New Run

TRAY A

Sample	Rep.	Cup No.	Channel 2 Ammonia (mg N/L)	ADF	MDF	Weight	
CCV 0.4000	1	S6	0.39649				99%
	Known Conc:		100.00000				
CCV 4.0000	1	S3	4.05685				101%
	Known Conc:		100.00000				
	Calibration:		Table/Fig. : 1				
CCB	1	S10	0.02398				
	Known Conc:		100.00000				
L2435035-01 T	1	21	1.58682		30.00		
L2436235-01 T	1	22	0.15785		3.00		
L2436235-02 T	1	23	0.28187		3.00		
CCV 0.4000	1	S6	0.40084				100%
	Known Conc:		100.00000				
CCV 4.0000	1	S3	4.05115				101%
	Known Conc:		100.00000				
CCB	1	S10	0.02456				
	Known Conc:		100.00000				

Channel 2 (Ammonia High) - Current View



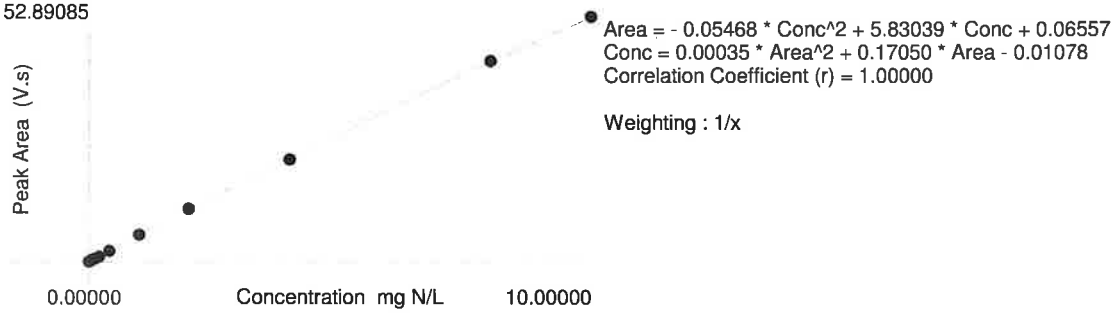
Author: A1WETCHEMINSTRUMENT

Date : 6/27/2024

Table : 1 (Ammonia)

	Known Conc. (mg N/L)	Rep.	Peak Area (V.s)	Peak Height (V)	% RSD	% Residual	Det. Conc (mg N/L)	Detection Date	Detection Time
1	10.00000	1	52.89085	4.72249	0.0	0.0	9.98675	6/27/2024	11:53:54 AM
2	8.00000	1	43.34124	3.97036	0.0	-0.3	8.03675	6/27/2024	11:54:51 AM
3	4.00000	1	22.15942	2.10359	0.0	1.6	3.93942	6/27/2024	11:55:48 AM
4	2.00000	1	11.72232	1.10297	0.0	-1.9	2.03604	6/27/2024	11:56:45 AM
5	1.00000	1	5.87825	0.55585	0.0	-0.6	1.00359	6/27/2024	11:57:42 AM
6	0.40000	1	2.37990	0.22321	0.0	0.4	0.39699	6/27/2024	11:58:41 AM
7	0.20000	1	1.16574	0.10807	0.0	5.2	0.18846	6/27/2024	11:59:39 AM
8	0.10000	1	0.68317	0.05835	0.0	-5.4	0.10587	6/27/2024	12:00:37 PM
9	0.05000	1	0.37357	0.03203	0.0	-4.7	0.05297	6/27/2024	12:01:35 PM
10	0.00000	1	0.04487	0.00317			-0.00313	6/27/2024	12:02:31 PM

Figure : 1 (Ammonia)



Author: A1WETCHEMINSTRUMENT Date : 6/27/2024

Original Run Filename: OM_6-27-2024_05-42-22PM.OMN Created: 6/27/2024 5:42:22 PM
Original Run Author's Signature: [A1WETCHEMINSTRUMENT]
Current Run Filename: OM_6-27-2024_05-42-22PM.OMN Last Modified: 6/27/2024 6:23:07 PM
Current Run Author's Signature: [A1WETCHEMINSTRUMENT]
Description: Default New Run

E

Sample	Rep.	Cup No.	Channel 2 Ammonia (mg N/L)	ADF	MDF	Weight	
CCV 0.4000	1	S6	0.39641	99%			
	Known Conc:		100.00000				
CCV 4.0000	1	S3	4.17557	104%			
	Known Conc:		100.00000				
	Calibration:		Table/Fig. : 1				
CCB	1	S10	0.01874				
	Known Conc:		100.00000				
WG1939872-1; BLK 6/26	1	1	0.02759		1.50		
WG1939872-2; HI LCS; 5X	1	2	21.60063		7.50		108%
LO LCS	1	3	1.98321		1.50		99%
L2434089-13	1	4	0.33296		1.50		
WG1939872-4; 34089.13 MS	1	5	4.76979		1.50		111%
WG1939872-3; 34089.13 DUP	1	6	0.41077		1.50		
L2434089-14	1	7	0.11298		1.50		21%
L2434089-15	1	8	0.04125		15.00		
L2434089-16	1	9	0.09212		30.00		
L2434089-17	1	10	0.03173		1.50		
CCV 0.4000	1	S6	0.40162	101%			
	Known Conc:		100.00000				
CCV 4.0000	1	S3	4.14760	104%			
	Known Conc:		100.00000				
CCB	1	S10	0.02333				
	Known Conc:		100.00000				
L2434089-18	1	11	0.13269		1.50		
L2434089-19	1	12	0.00589		1.50		
L2434089-20	1	13	0.08861		1.50		
L2434089-21	1	14	0.08442		1.50		
L2434089-22	1	15	1.00814		1.50		
L2434089-23	1	16	0.49106		30.00		
L2434089-24	1	17	0.03841		1.50		
L2434679-05	1	18	0.05147		1.50		
L2434679-08	1	19	-0.00447		1.50		
L2434679-09	1	20	0.28652		1.50		
CCV 0.4000	1	S6	0.40354	101%			
	Known Conc:		100.00000				
CCV 4.0000	1	S3	4.14982	104%			
	Known Conc:		100.00000				
CCB	1	S10	0.02565				
	Known Conc:		100.00000				
L2434679-10	1	21	0.01975		1.50		
L2434679-11	1	22	0.02899		1.50		
L2434679-14	1	23	0.01354		1.50		12%
WG1939872-6; 34679.14 MS	1	24	4.46575		1.50		NC(<4RL)
WG1939872-5; 34679.14 DUP	1	25	0.16275		1.50		
~~L2434091-01~~	~~1~~	~~26~~	~~24.72290~~		~~1.50~~		Redun w/dilution
~~L2434091-02~~	~~1~~	~~27~~	~~5.71310~~		~~1.50~~		
CCV 0.4000	1	S6	0.42532	106%			
	Known Conc:		100.00000				
CCV 4.0000	1	S3	4.15575	104%			
	Known Conc:		100.00000				
CCB	1	S10	0.03391				
	Known Conc:		100.00000				

Author: A1WETCHEMINSTRUMENT

Date : 6/27/2024

Channel 2 (Ammonia High) - Current View

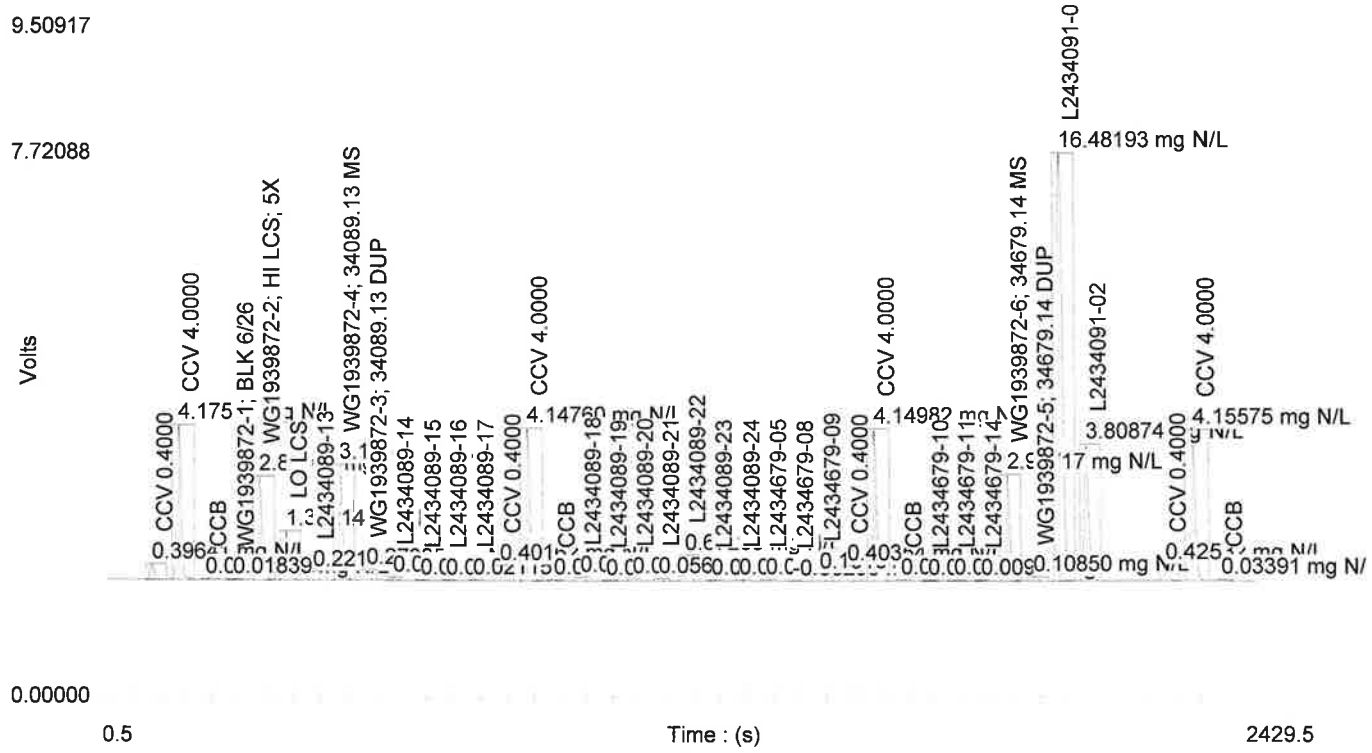
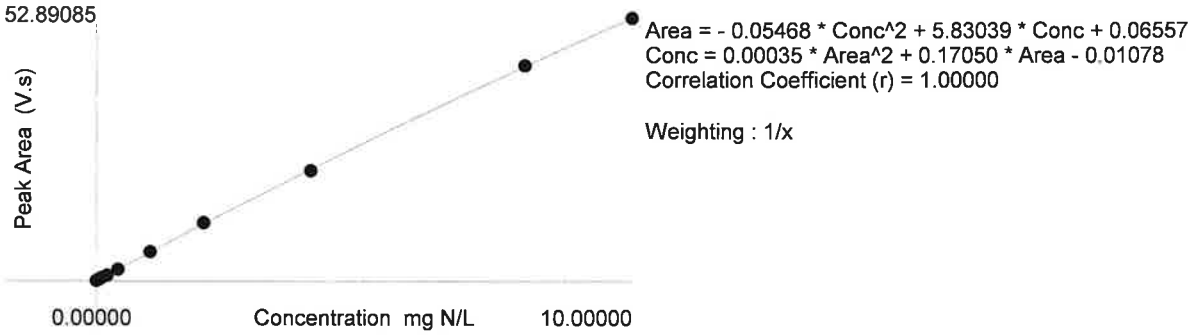


Table : 1 (Ammonia)

	Known Conc. (mg N/L)	Rep.	Peak Area (V.s)	Peak Height (V)	% RSD	% Residual	Det. Conc (mg N/L)	Detection Date	Detection Time
1	10.00000	1	52.89085	4.72249	0.0	0.0	9.98675	6/27/2024	11:53:54 AM
2	8.00000	1	43.34124	3.97036	0.0	-0.3	8.03675	6/27/2024	11:54:51 AM
3	4.00000	1	22.15942	2.10359	0.0	1.6	3.93942	6/27/2024	11:55:48 AM
4	2.00000	1	11.72232	1.10297	0.0	-1.9	2.03604	6/27/2024	11:56:45 AM
5	1.00000	1	5.87825	0.55585	0.0	-0.6	1.00359	6/27/2024	11:57:42 AM
6	0.40000	1	2.37990	0.22321	0.0	0.4	0.39699	6/27/2024	11:58:41 AM
7	0.20000	1	1.16574	0.10807	0.0	5.2	0.18846	6/27/2024	11:59:39 AM
8	0.10000	1	0.68317	0.05835	0.0	-5.4	0.10587	6/27/2024	12:00:37 PM
9	0.05000	1	0.37357	0.03203	0.0	-4.7	0.05297	6/27/2024	12:01:35 PM
10	0.00000	1	0.04487	0.00317			-0.00313	6/27/2024	12:02:31 PM

Figure : 1 (Ammonia)



Author: A1WETCHEMINSTRUMENT

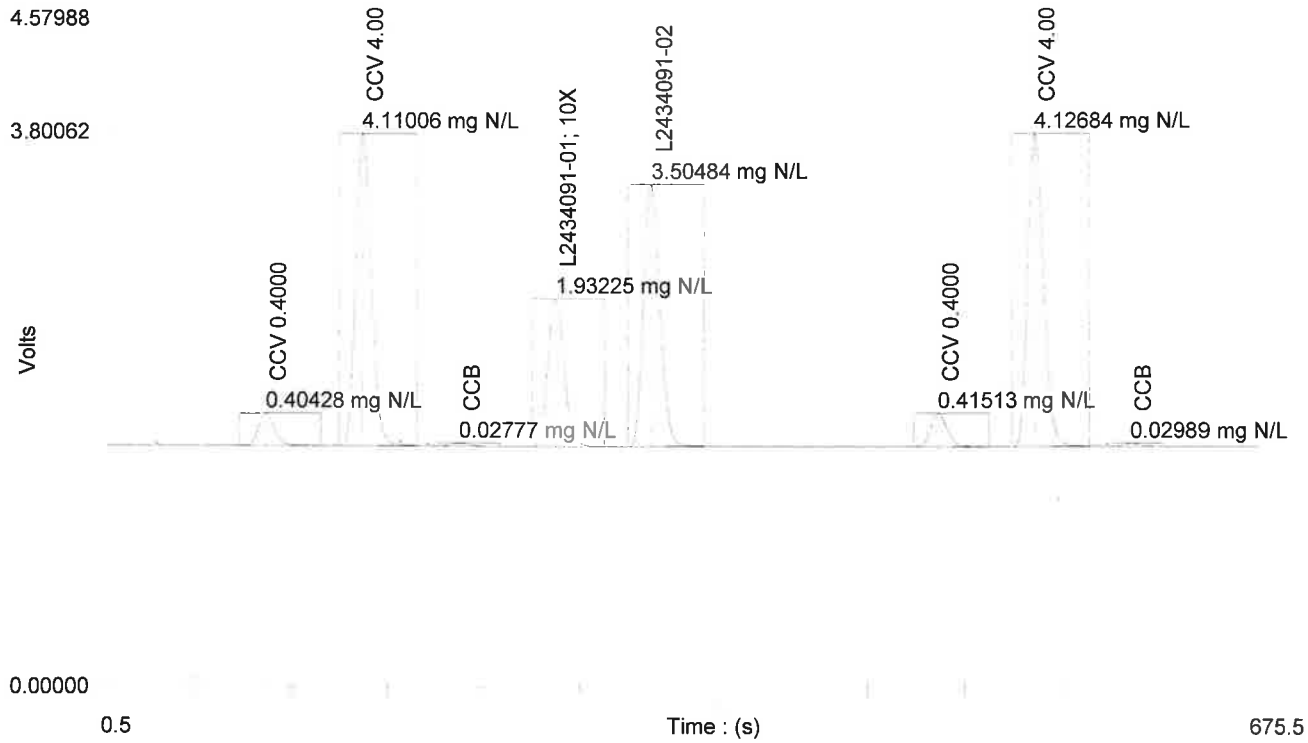
Date : 6/27/2024

Original Run Filename: OM_6-27-2024_06-25-13PM.OMN Created: 6/27/2024 6:25:13 PM
Original Run Author's Signature: [A1WETCHEMINSTRUMENT]
Current Run Filename: OM_6-27-2024_06-25-13PM.OMN Last Modified: 6/27/2024 6:36:40 PM
Current Run Author's Signature: [A1WETCHEMINSTRUMENT]
Description: Default New Run

E2

Sample	Rep.	Cup No.	Channel 2 Ammonia (mg N/L)	ADF	MDF	Weight
CCV 0.4000	1	S6	0.40428	101%		
	Known Conc:		100.00000			
	Calibration:		Table/Fig. : 1			
CCV 4.0000	1	S3	4.11006	103%		
	Known Conc:		100.00000			
CCB	1	S10	0.02777			
	Known Conc:		100.00000			
L2434091-01; 10X	1	26	28.98380		15.00	
L2434091-02	1	27	5.25726		1.50	
CCV 0.4000	1	S6	0.41513	104%		
	Known Conc:		100.00000			
CCV 4.0000	1	S3	4.12684	104%		
	Known Conc:		100.00000			
CCB	1	S10	0.02989			
	Known Conc:		100.00000			

Channel 2 (Ammonia High) - Current View

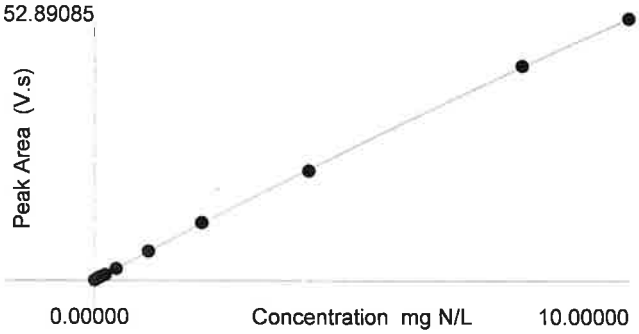


Author: A1WETCHEMINSTRUMENT Date : 6/27/2024

Table : 1 (Ammonia)

	Known Conc. (mg N/L)	Rep.	Peak Area (V.s)	Peak Height (V)	% RSD	% Residual	Det. Conc (mg N/L)	Detection Date	Detection Time
1	10.00000	1	52.89085	4.72249	0.0	0.0	9.98675	6/27/2024	11:53:54 AM
2	8.00000	1	43.34124	3.97036	0.0	-0.3	8.03675	6/27/2024	11:54:51 AM
3	4.00000	1	22.15942	2.10359	0.0	1.6	3.93942	6/27/2024	11:55:48 AM
4	2.00000	1	11.72232	1.10297	0.0	-1.9	2.03604	6/27/2024	11:56:45 AM
5	1.00000	1	5.87825	0.55585	0.0	-0.6	1.00359	6/27/2024	11:57:42 AM
6	0.40000	1	2.37990	0.22321	0.0	0.4	0.39699	6/27/2024	11:58:41 AM
7	0.20000	1	1.16574	0.10807	0.0	5.2	0.18846	6/27/2024	11:59:39 AM
8	0.10000	1	0.68317	0.05835	0.0	-5.4	0.10587	6/27/2024	12:00:37 PM
9	0.05000	1	0.37357	0.03203	0.0	-4.7	0.05297	6/27/2024	12:01:35 PM
10	0.00000	1	0.04487	0.00317			-0.00313	6/27/2024	12:02:31 PM

Figure : 1 (Ammonia)



Area = - 0.05468 * Conc^2 + 5.83039 * Conc + 0.06557
Conc = 0.00035 * Area^2 + 0.17050 * Area - 0.01078
Correlation Coefficient (r) = 1.00000

Weighting : 1/x

Author: A1WETCHEMINSTRUMENT

Date : 6/27/2024

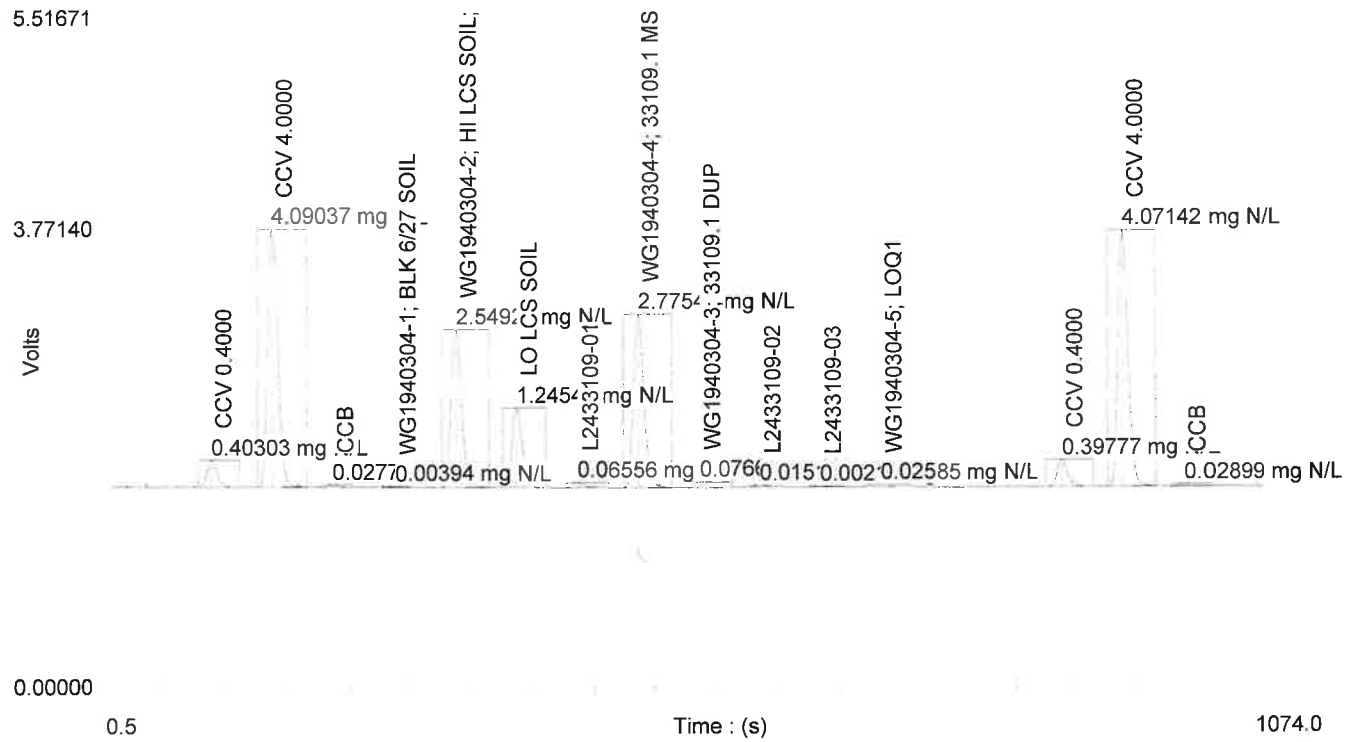
Original Run Filename: OM_6-27-2024_06-39-19PM.OMN Created: 6/27/2024 6:39:19 PM
Original Run Author's Signature: [A1WETCHEMINSTRUMENT]
Current Run Filename: OM_6-27-2024_06-39-19PM.OMN Last Modified: 6/27/2024 6:57:25 PM
Current Run Author's Signature: [A1WETCHEMINSTRUMENT]
Description: Default New Run

F

Sample	Rep.	Cup No.	Channel 2 Ammonia (mg N/L)	ADF	MDF	Weight	
CCV 0.4000	1	S6	0.40303				101%
	Known Conc:		100.00000				
CCV 4.0000	1	S3	4.09037				102%
	Known Conc:		100.00000				
	Calibration:		Table/Fig. : 1				
CCB	1	S10	0.02772				
	Known Conc:		100.00000				
WG1940304-1; BLK 6/27 SOIL	1	1	0.55256		150.00	1.06980 g	
WG1940304-2; HI LCS SOIL; 5X	1	2	1843.35242		750.00	1.03720 g	96%
LO LCS SOIL	1	3	183.93542		150.00	1.01570 g	93%
L2433109-01	1	4	9.58790		150.00	1.02560 g	
WG1940304-4; 33109.1 MS	1	5	386.01169		150.00	1.07850 g	101%
WG1940304-3; 33109.1 DUP	1	6	10.71693		150.00	1.07320 g	
L2433109-02	1	7	2.23689		150.00	1.01300 g	11%
L2433109-03	1	8	0.28721		150.00	1.13720 g	
WG1940304-5; LOQ1	1	9	3.66960		150.00	1.05670 g	
CCV 0.4000	1	S6	0.39777				100%
	Known Conc:		100.00000				
CCV 4.0000	1	S3	4.07142				102%
	Known Conc:		100.00000				
CCB	1	S10	0.02899				
	Known Conc:		100.00000				

LCS - 1928 mg/kg
LO LCS - 197 mg/kg
MS - 371 mg/kg

Channel 2 (Ammonia High) - Current View



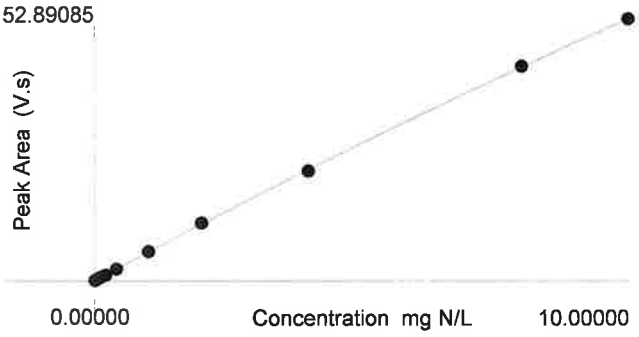
Author: A1WETCHEMINSTRUMENT

Date : 6/27/2024

Table : 1 (Ammonia)

	Known Conc. (mg N/L)	Rep.	Peak Area (V.s)	Peak Height (V)	% RSD	% Residual	Det. Conc (mg N/L)	Detection Date	Detection Time
1	10.00000	1	52.89085	4.72249	0.0	0.0	9.98675	6/27/2024	11:53:54 AM
2	8.00000	1	43.34124	3.97036	0.0	-0.3	8.03675	6/27/2024	11:54:51 AM
3	4.00000	1	22.15942	2.10359	0.0	1.6	3.93942	6/27/2024	11:55:48 AM
4	2.00000	1	11.72232	1.10297	0.0	-1.9	2.03604	6/27/2024	11:56:45 AM
5	1.00000	1	5.87825	0.55585	0.0	-0.6	1.00359	6/27/2024	11:57:42 AM
6	0.40000	1	2.37990	0.22321	0.0	0.4	0.39699	6/27/2024	11:58:41 AM
7	0.20000	1	1.16574	0.10807	0.0	5.2	0.18846	6/27/2024	11:59:39 AM
8	0.10000	1	0.68317	0.05835	0.0	-5.4	0.10587	6/27/2024	12:00:37 PM
9	0.05000	1	0.37357	0.03203	0.0	-4.7	0.05297	6/27/2024	12:01:35 PM
10	0.00000	1	0.04487	0.00317			-0.00313	6/27/2024	12:02:31 PM

Figure : 1 (Ammonia)



Area = - 0.05468 * Conc^2 + 5.83039 * Conc + 0.06557
Conc = 0.00035 * Area^2 + 0.17050 * Area - 0.01078
Correlation Coefficient (r) = 1.00000

Weighting : 1/x

Author: A1WETCHEMINSTRUMENT

Date : 6/27/2024

Original Run Filename: OM_6-27-2024_06-59-12PM.OMN Created: 6/27/2024 6:59:12 PM
Original Run Author's Signature: [A1WETCHEMINSTRUMENT]
Current Run Filename: OM_6-27-2024_06-59-12PM.OMN Last Modified: 6/27/2024 7:15:26 PM
Current Run Author's Signature: [A1WETCHEMINSTRUMENT]
Description: Default New Run

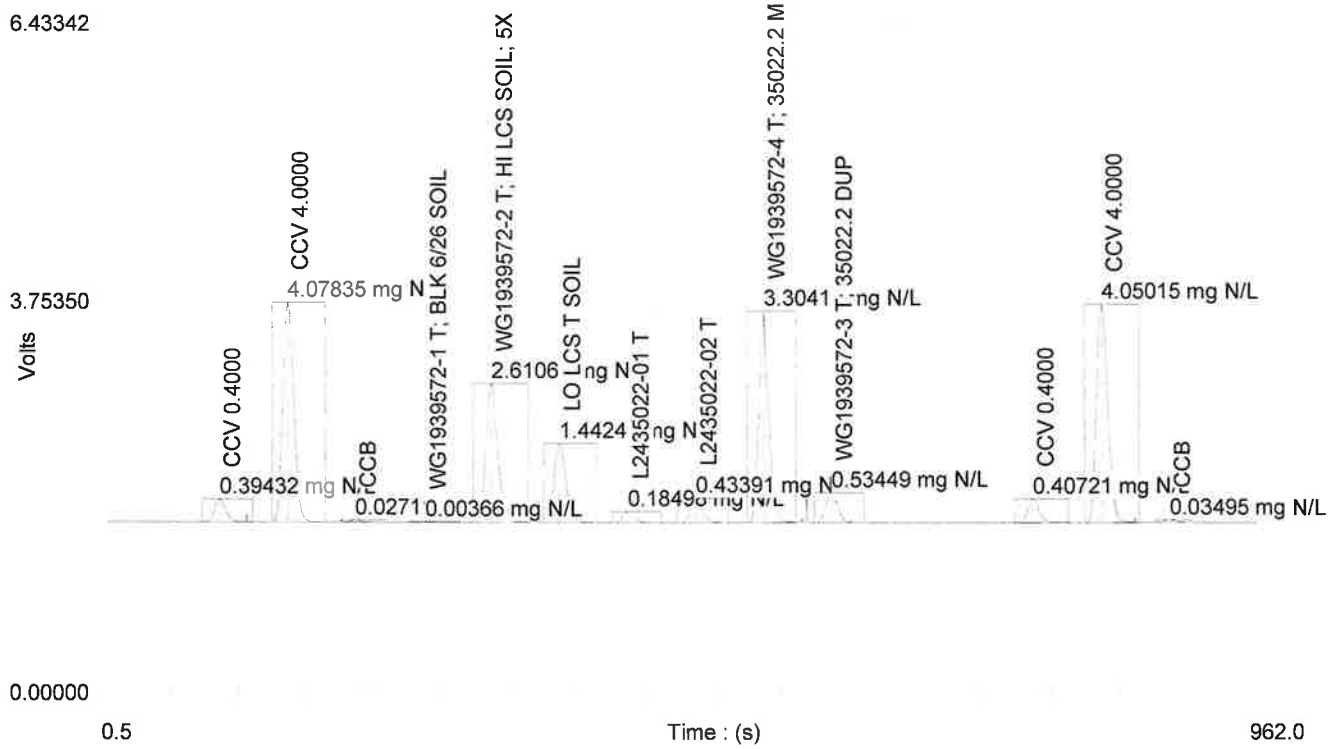
G

Sample	Rep.	Cup No.	Channel 2 Ammonia (mg N/L)	ADF	MDF	Weight
CCV 0.4000	1	S6	0.39432	99%		
	Known Conc:		100.00000			
	Calibration:		Table/Fig. : 1	104		
CCV 4.0000	1	S3	4.07835			
	Known Conc:		100.00000			
CCB	1	S10	0.02711			
	Known Conc:		100.00000			
WG1939572-1 T; BLK 6/26 SOIL	1	1	0.00366		1.00	1.00000 g
WG1939572-2 T; HI LCS SOIL; 5X	1	2	13503.21387		750.00	0.14500 g
LO LCS T SOIL	1	3	1944.00476		150.00	0.11130 g
L2435022-01 T	1	4	237.96465		150.00	0.11660 g
L2435022-02 T	1	5	434.49020		150.00	0.14980 g
WG1939572-4 T; 35022.2 MS	1	6	4366.68408		150.00	0.11350 g
WG1939572-3 T; 35022.2 DUP	1	7	550.26575		150.00	0.14570 g
CCV 0.4000	1	S6	0.40721	101%		
	Known Conc:		100.00000			
CCV 4.0000	1	S3	4.05015	101%		
	Known Conc:		100.00000			
CCB	1	S10	0.03495			
	Known Conc:		100.00000			

98%
108%
112%
24%

lcs-13793 mg/kg
lo lcs-1797 mg/kg
MS-3524 mg/kg

Channel 2 (Ammonia High) - Current View

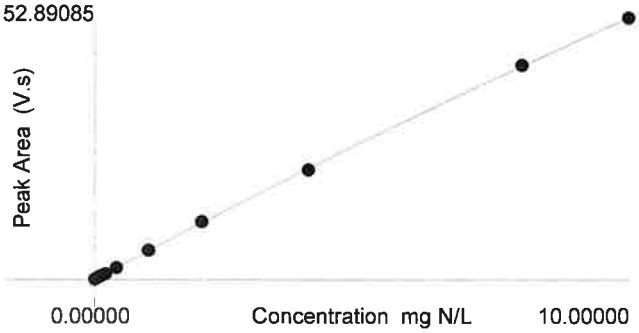


Author: A1WETCHEMINSTRUMENT Date : 6/27/2024

Table : 1 (Ammonia)

	Known Conc. (mg N/L)	Rep.	Peak Area (V.s)	Peak Height (V)	% RSD	% Residual	Det. Conc (mg N/L)	Detection Date	Detection Time
1	10.00000	1	52.89085	4.72249	0.0	0.0	9.98675	6/27/2024	11:53:54 AM
2	8.00000	1	43.34124	3.97036	0.0	-0.3	8.03675	6/27/2024	11:54:51 AM
3	4.00000	1	22.15942	2.10359	0.0	1.6	3.93942	6/27/2024	11:55:48 AM
4	2.00000	1	11.72232	1.10297	0.0	-1.9	2.03604	6/27/2024	11:56:45 AM
5	1.00000	1	5.87825	0.55585	0.0	-0.6	1.00359	6/27/2024	11:57:42 AM
6	0.40000	1	2.37990	0.22321	0.0	0.4	0.39699	6/27/2024	11:58:41 AM
7	0.20000	1	1.16574	0.10807	0.0	5.2	0.18846	6/27/2024	11:59:39 AM
8	0.10000	1	0.68317	0.05835	0.0	-5.4	0.10587	6/27/2024	12:00:37 PM
9	0.05000	1	0.37357	0.03203	0.0	-4.7	0.05297	6/27/2024	12:01:35 PM
10	0.00000	1	0.04487	0.00317			-0.00313	6/27/2024	12:02:31 PM

Figure : 1 (Ammonia)



Area = - 0.05468 * Conc^2 + 5.83039 * Conc + 0.06557
Conc = 0.00035 * Area^2 + 0.17050 * Area - 0.01078
Correlation Coefficient (r) = 1.00000

Weighting : 1/x

Author: A1WETCHEMINSTRUMENT

Date : 6/27/2024

Original Run Filename: OM_6-27-2024_07-18-27PM.OMN Created: 6/27/2024 7:18:27 PM
Original Run Author's Signature: [A1WETCHEMINSTRUMENT]
Current Run Filename: OM_6-27-2024_07-18-27PM.OMN Last Modified: 6/27/2024 7:46:03 PM
Current Run Author's Signature: [A1WETCHEMINSTRUMENT]
Description: Default New Run

Sample	Rep.	Cup No.	Channel 2 Ammonia (mg N/L)	ADF	MDF	Weight
CCV 0.4000	1	S6	0.39600	99%		
	Known Conc:		100.00000			
	Calibration:		Table/Fig. : 1			
CCV 4.0000	1	S3	4.01694	101%		
	Known Conc:		100.00000			
CCB	1	S10	0.03507			
	Known Conc:		100.00000			
WG1940186-1; BLK 6/27	1	1	0.00476		1.50	
WG1940186-2; HI LCS; 5X	1	2	19.57616		7.50	98%
LO LCS	1	3	1.83529		1.50	92%
L2434979-01	1	4	0.59730		1.50	
WG1940186-4; 34979.1 MS	1	5	4.72671		1.50	103%
WG1940186-3; 34979.1 DUP	1	6	0.36286		1.50	49%
L2434840-01	1	7	0.05307		3.00	
L2434837-02	1	8	22.39566		3.00	
L2434827-01	1	9	0.46459		1.50	
L2434976-01	1	10	0.05878		1.50	
CCV 0.4000	1	S6	0.40358	101%		
	Known Conc:		100.00000			
CCV 4.0000	1	S3	4.03164	101%		
	Known Conc:		100.00000			
CCB	1	S10	0.03776			
	Known Conc:		100.00000			
L2434876-01	1	11	0.17319		1.50	
L2434876-02	1	12	0.57911		1.50	
L2434818-01	1	13	12.04838		15.00	
L2434818-02	1	14	0.96003		1.50	
L2434819-01	1	15	10.55579		7.50	
L2434819-02	1	16	0.13146		1.50	
L2434904-03	1	17	68.37552		15.00	
L2434904-06	1	18	0.39749		1.50	
L2434886-01	1	19	38.96244		15.00	
L2434886-02	1	20	6.13114		1.50	
CCV 0.4000	1	S6	0.50332			
	Known Conc:		100.00000			

reinject - Ok

Author: A1WETCHEMINSTRUMENT

Date : 6/27/2024

Channel 2 (Ammonia High) - Current View

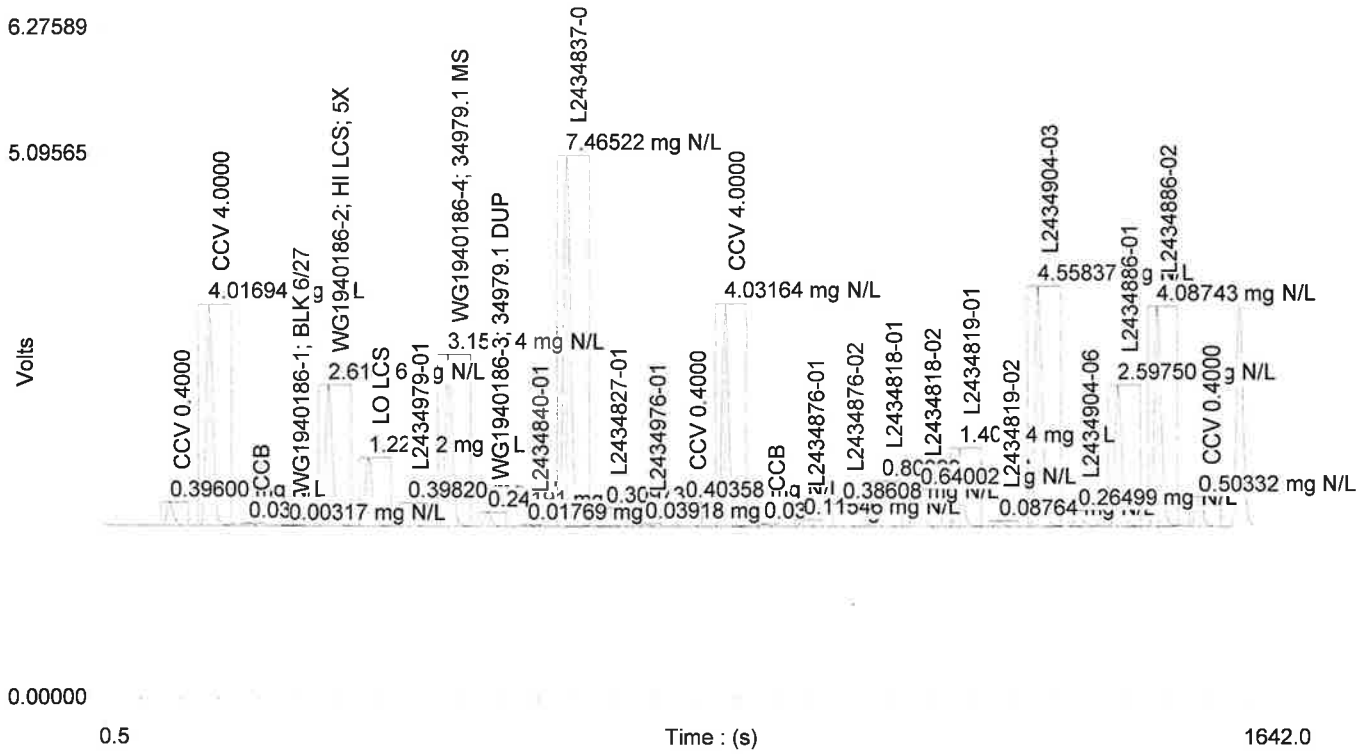
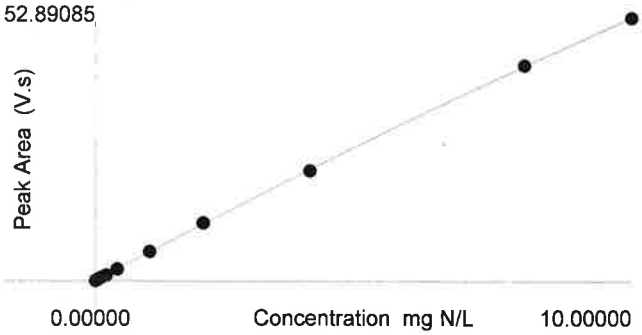


Table : 1 (Ammonia)

	Known Conc. (mg N/L)	Rep.	Peak Area (V.s)	Peak Height (V)	% RSD	% Residual	Det. Conc (mg N/L)	Detection Date	Detection Time
1	10.00000	1	52.89085	4.72249	0.0	0.0	9.98675	6/27/2024	11:53:54 AM
2	8.00000	1	43.34124	3.97036	0.0	-0.3	8.03675	6/27/2024	11:54:51 AM
3	4.00000	1	22.15942	2.10359	0.0	1.6	3.93942	6/27/2024	11:55:48 AM
4	2.00000	1	11.72232	1.10297	0.0	-1.9	2.03604	6/27/2024	11:56:45 AM
5	1.00000	1	5.87825	0.55585	0.0	-0.6	1.00359	6/27/2024	11:57:42 AM
6	0.40000	1	2.37990	0.22321	0.0	0.4	0.39699	6/27/2024	11:58:41 AM
7	0.20000	1	1.16574	0.10807	0.0	5.2	0.18846	6/27/2024	11:59:39 AM
8	0.10000	1	0.68317	0.05835	0.0	-5.4	0.10587	6/27/2024	12:00:37 PM
9	0.05000	1	0.37357	0.03203	0.0	-4.7	0.05297	6/27/2024	12:01:35 PM
10	0.00000	1	0.04487	0.00317			-0.00313	6/27/2024	12:02:31 PM

Figure : 1 (Ammonia)



Author: A1WETCHEMINSTRUMENT

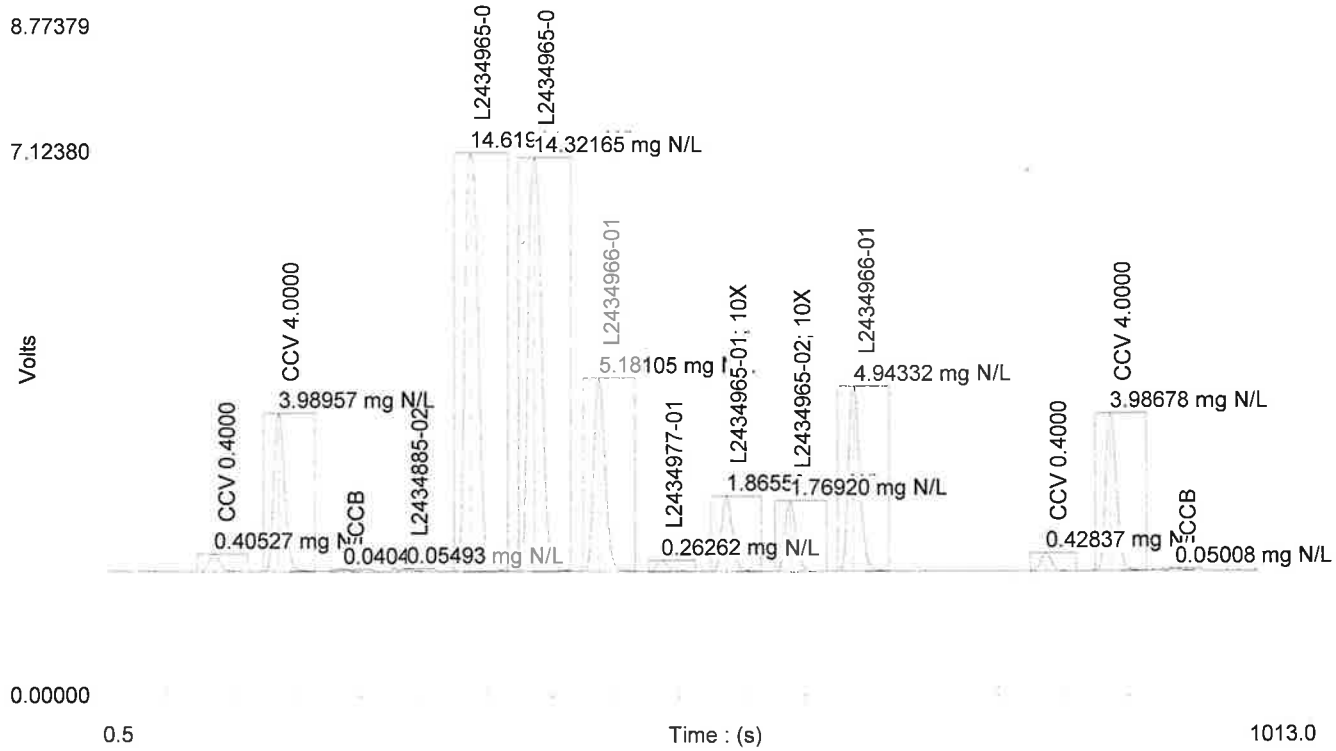
Date : 6/27/2024

Original Run Filename: OM_6-27-2024_07-48-07PM.OMN Created: 6/27/2024 7:48:07 PM
Original Run Author's Signature: [A1WETCHEMINSTRUMENT]
Current Run Filename: OM_6-27-2024_07-48-07PM.OMN Last Modified: 6/27/2024 8:05:13 PM
Current Run Author's Signature: [A1WETCHEMINSTRUMENT]
Description: Default New Run

Sample	Rep.	Cup No.	Channel 2 Ammonia (mg N/L)	ADF	MDF	Weight
CCV 0.4000	1	S6	0.40527	101%		
	Known Conc:		100.00000			
	Calibration:		Table/Fig. : 1	100%		
CCV 4.0000	1	S3	3.98957			
	Known Conc:		100.00000			
CCB	1	S10	0.04042			
	Known Conc:		100.00000			
L2434885-02	1	21	0.08239		1.50	
L2434965-01	1	22	21.92870		1.50	
L2434965-02	1	23	21.48248		1.50	
L2434966-01	1	24	7.77158		1.50	
L2434977-01	1	25	0.39393		1.50	
L2434965-01; 10X	1	26	27.98335		15.00	
L2434965-02; 10X	1	27	26.53803		15.00	
L2434966-01	1	28	7.41498		1.50	
CCV 0.4000	1	S6	0.42837	107%		
	Known Conc:		100.00000	99%		
CCV 4.0000	1	S3	3.98678			
	Known Conc:		100.00000			
CCB	1	S10	0.05008			
	Known Conc:		100.00000			

reinject. QC

Channel 2 (Ammonia High) - Current View



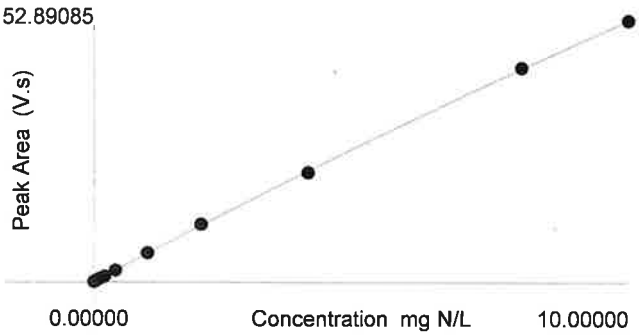
Author: A1WETCHEMINSTRUMENT

Date : 6/27/2024

Table : 1 (Ammonia)

	Known Conc. (mg N/L)	Rep.	Peak Area (V.s)	Peak Height (V)	% RSD	% Residual	Det. Conc (mg N/L)	Detection Date	Detection Time
1	10.00000	1	52.89085	4.72249	0.0	0.0	9.98675	6/27/2024	11:53:54 AM
2	8.00000	1	43.34124	3.97036	0.0	-0.3	8.03675	6/27/2024	11:54:51 AM
3	4.00000	1	22.15942	2.10359	0.0	1.6	3.93942	6/27/2024	11:55:48 AM
4	2.00000	1	11.72232	1.10297	0.0	-1.9	2.03604	6/27/2024	11:56:45 AM
5	1.00000	1	5.87825	0.55585	0.0	-0.6	1.00359	6/27/2024	11:57:42 AM
6	0.40000	1	2.37990	0.22321	0.0	0.4	0.39699	6/27/2024	11:58:41 AM
7	0.20000	1	1.16574	0.10807	0.0	5.2	0.18846	6/27/2024	11:59:39 AM
8	0.10000	1	0.68317	0.05835	0.0	-5.4	0.10587	6/27/2024	12:00:37 PM
9	0.05000	1	0.37357	0.03203	0.0	-4.7	0.05297	6/27/2024	12:01:35 PM
10	0.00000	1	0.04487	0.00317			-0.00313	6/27/2024	12:02:31 PM

Figure : 1 (Ammonia)



Area = - 0.05468 * Conc^2 + 5.83039 * Conc + 0.06557
Conc = 0.00035 * Area^2 + 0.17050 * Area - 0.01078
Correlation Coefficient (r) = 1.00000

Weighting : 1/x

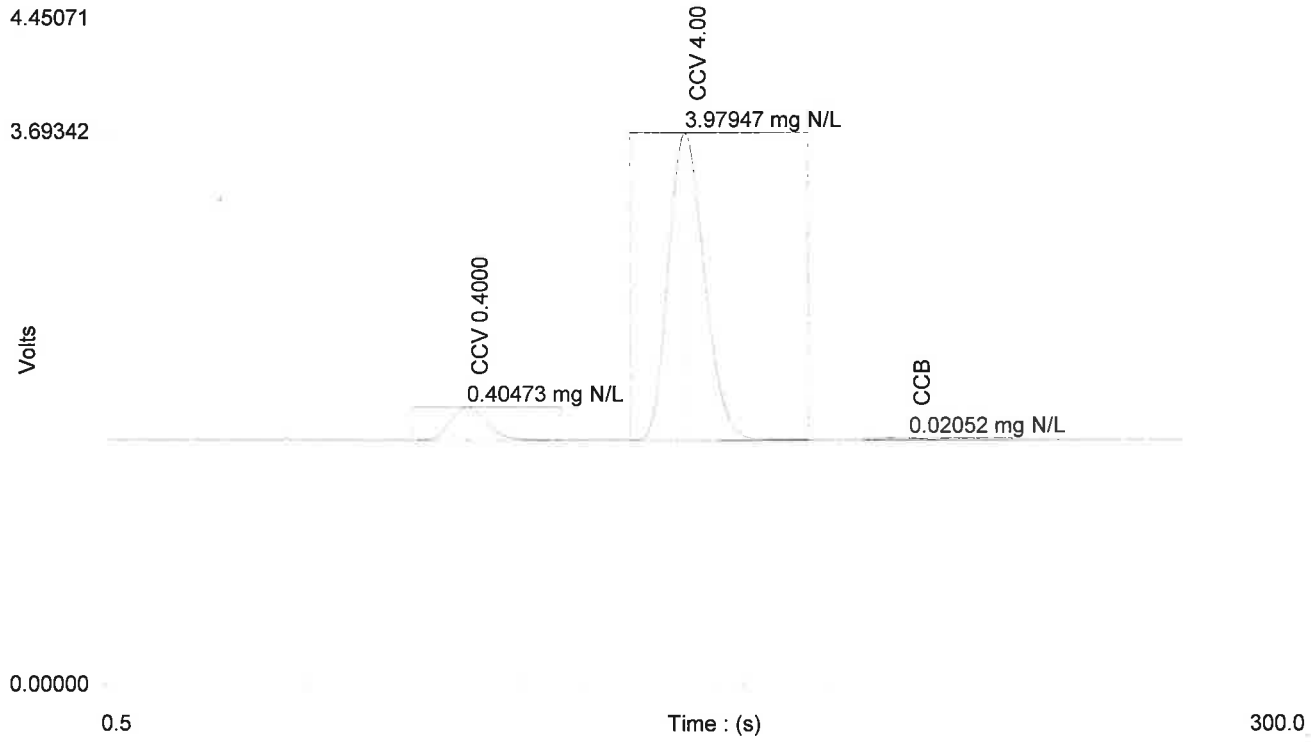
Author: A1WETCHEMINSTRUMENT

Date : 6/27/2024

Original Run Filename: OM_6-27-2024_08-06-09PM.OMN Created: 6/27/2024 8:06:09 PM
Original Run Author's Signature: [A1WETCHEMINSTRUMENT]
Current Run Filename: OM_6-27-2024_08-06-09PM.OMN Last Modified: 6/27/2024 8:11:00 PM
Current Run Author's Signature: [A1WETCHEMINSTRUMENT]
Description: Default New Run

Sample	Rep.	Cup No.	Channel 2 Ammonia (mg N/L)	ADF	MDF	Weight
CCV 0.4000	1	S6	0.40473	101%		
	Known Conc:		100.00000			
CCV 4.0000	1	S3	3.97947	99%		
	Known Conc:		100.00000			
	Calibration:		Table/Fig. : 1			
CCB	1	S10	0.02052			
	Known Conc:		100.00000			

Channel 2 (Ammonia High) - Current View



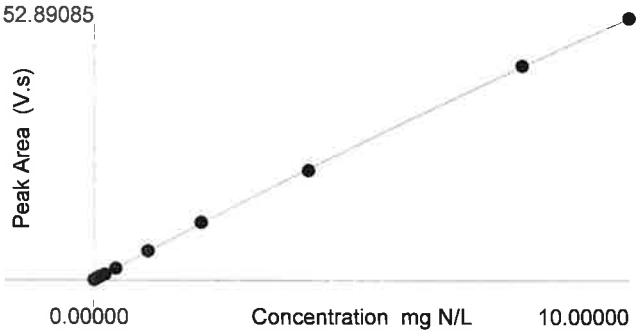
Author: A1WETCHEMINSTRUMENT

Date : 6/27/2024

Table : 1 (Ammonia)

	Known Conc. (mg N/L)	Rep.	Peak Area (V.s)	Peak Height (V)	% RSD	% Residual	Det. Conc (mg N/L)	Detection Date	Detection Time
1	10.00000	1	52.89085	4.72249	0.0	0.0	9.98675	6/27/2024	11:53:54 AM
2	8.00000	1	43.34124	3.97036	0.0	-0.3	8.03675	6/27/2024	11:54:51 AM
3	4.00000	1	22.15942	2.10359	0.0	1.6	3.93942	6/27/2024	11:55:48 AM
4	2.00000	1	11.72232	1.10297	0.0	-1.9	2.03604	6/27/2024	11:56:45 AM
5	1.00000	1	5.87825	0.55585	0.0	-0.6	1.00359	6/27/2024	11:57:42 AM
6	0.40000	1	2.37990	0.22321	0.0	0.4	0.39699	6/27/2024	11:58:41 AM
7	0.20000	1	1.16574	0.10807	0.0	5.2	0.18846	6/27/2024	11:59:39 AM
8	0.10000	1	0.68317	0.05835	0.0	-5.4	0.10587	6/27/2024	12:00:37 PM
9	0.05000	1	0.37357	0.03203	0.0	-4.7	0.05297	6/27/2024	12:01:35 PM
10	0.00000	1	0.04487	0.00317			-0.00313	6/27/2024	12:02:31 PM

Figure : 1 (Ammonia)



Area = - 0.05468 * Conc^2 + 5.83039 * Conc + 0.06557
Conc = 0.00035 * Area^2 + 0.17050 * Area - 0.01078
Correlation Coefficient (r) = 1.00000

Weighting : 1/x

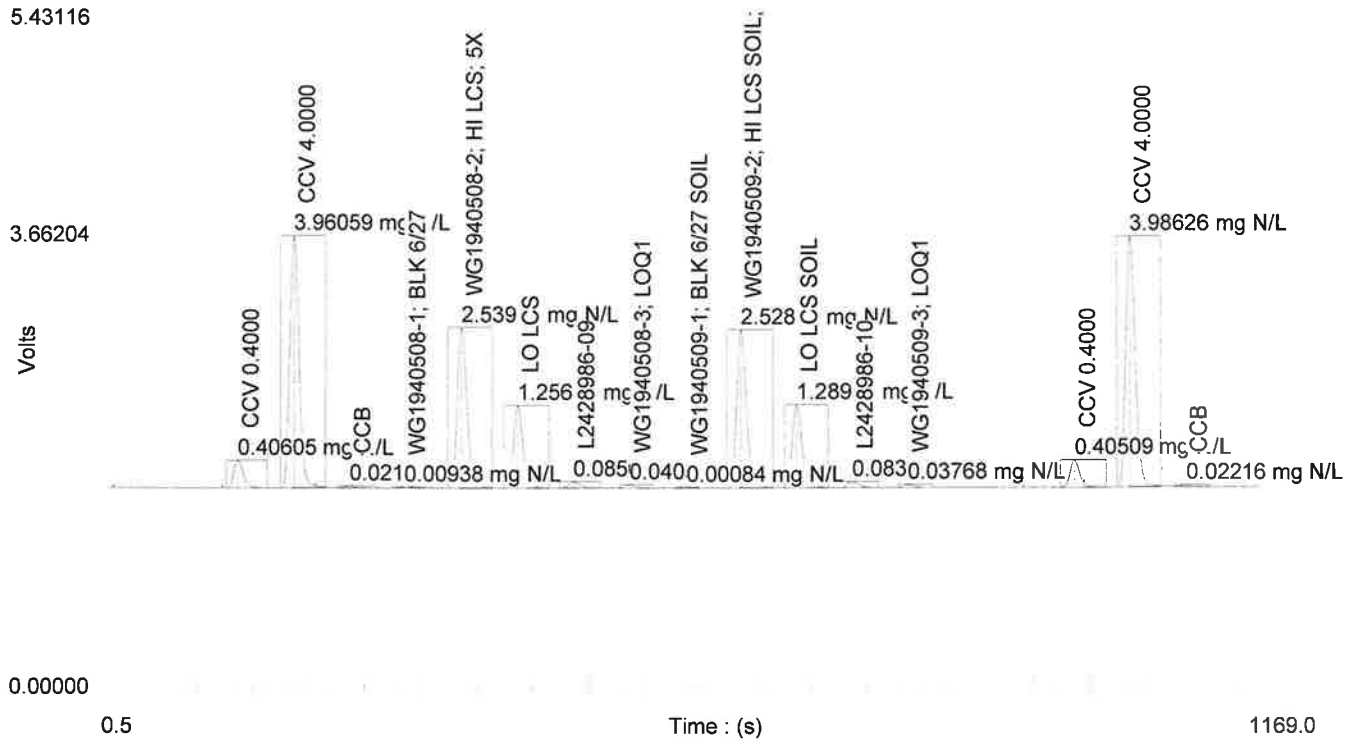
Author: A1WETCHEMINSTRUMENT

Date : 6/27/2024

Original Run Filename: OM_6-27-2024_09-22-16PM.OMN Created: 6/27/2024 9:22:16 PM
Original Run Author's Signature: [A1WETCHEMINSTRUMENT]
Current Run Filename: OM_6-27-2024_09-22-16PM.OMN Last Modified: 6/27/2024 9:41:58 PM
Current Run Author's Signature: [A1WETCHEMINSTRUMENT]
Description: Default New Run

Sample	Rep.	Cup No.	Channel 2 Ammonia (mg N/L)	ADF	MDF	Weight
CCV 0.4000	1	S6	0.40605			
	Known Conc:		100.00000			
	Calibration:		Table/Fig. : 1			
CCV 4.0000	1	S3	3.96059			
	Known Conc:		100.00000			
CCB	1	S10	0.02162			
	Known Conc:		100.00000			
WG1940508-1; BLK 6/27	1	1	0.01407		1.50	
WG1940508-2; HI LCS; 5X	1	2	19.04278		7.50	
LO LCS	1	3	1.88441		1.50	
L2428986-09	1	4	0.12854		1.50	
WG1940508-3; LOQ1	1	5	0.06085		1.50	
WG1940509-1; BLK 6/27 SOIL	1	6	0.12581		150.00	1.00000 g
WG1940509-2; HI LCS SOIL; 5X	1	7	1896.69482		750.00	1.00000 g
LO LCS SOIL	1	8	193.38805		150.00	1.00000 g
L2428986-10	1	9	12.57683		150.00	1.00000 g
WG1940509-3; LOQ1	1	10	5.65248		150.00	1.00000 g
CCV 0.4000	1	S6	0.40509			
	Known Conc:		100.00000			
CCV 4.0000	1	S3	3.98626			
	Known Conc:		100.00000			
CCB	1	S10	0.02216			
	Known Conc:		100.00000			

Channel 2 (Ammonia High) - Current View

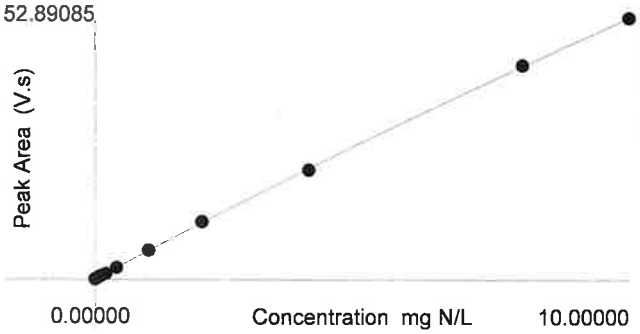


Author: A1WETCHEMINSTRUMENT Date : 6/27/2024

Table : 1 (Ammonia)

	Known Conc. (mg N/L)	Rep.	Peak Area (V.s)	Peak Height (V)	% RSD	% Residual	Det. Conc (mg N/L)	Detection Date	Detection Time
1	10.00000	1	52.89085	4.72249	0.0	0.0	9.98675	6/27/2024	11:53:54 AM
2	8.00000	1	43.34124	3.97036	0.0	-0.3	8.03675	6/27/2024	11:54:51 AM
3	4.00000	1	22.15942	2.10359	0.0	1.6	3.93942	6/27/2024	11:55:48 AM
4	2.00000	1	11.72232	1.10297	0.0	-1.9	2.03604	6/27/2024	11:56:45 AM
5	1.00000	1	5.87825	0.55585	0.0	-0.6	1.00359	6/27/2024	11:57:42 AM
6	0.40000	1	2.37990	0.22321	0.0	0.4	0.39699	6/27/2024	11:58:41 AM
7	0.20000	1	1.16574	0.10807	0.0	5.2	0.18846	6/27/2024	11:59:39 AM
8	0.10000	1	0.68317	0.05835	0.0	-5.4	0.10587	6/27/2024	12:00:37 PM
9	0.05000	1	0.37357	0.03203	0.0	-4.7	0.05297	6/27/2024	12:01:35 PM
10	0.00000	1	0.04487	0.00317			-0.00313	6/27/2024	12:02:31 PM

Figure : 1 (Ammonia)



Area = - 0.05468 * Conc^2 + 5.83039 * Conc + 0.06557
Conc = 0.00035 * Area^2 + 0.17050 * Area - 0.01078
Correlation Coefficient (r) = 1.00000

Weighting : 1/x

Author: A1WETCHEMINSTRUMENT

Date : 6/26/2024

Original Run Filename: OM_6-26-2024_10-35-00AM.OMN Created: 6/26/2024 10:35:00 AM
Original Run Author's Signature: [A1WETCHEMINSTRUMENT]
Current Run Filename: OM_6-26-2024_10-35-00AM.OMN Last Modified: 6/26/2024 11:21:47 AM
Current Run Author's Signature: [A1WETCHEMINSTRUMENT]
Description: Default New Run

Sample	Rep.	Cup No.	Channel 2 Ammonia (mg N/L)	ADF	MDF	Weight	TRAY A
STD 1	1	S1	10.00000				
STD 2	1	S2	8.00000				
STD 3	1	S3	4.00000				
STD 4	1	S4	2.00000				
STD 5	1	S5	1.00000				
STD 6	1	S6	0.40000				
STD 7	1	S7	0.20000				
STD 8	1	S8	0.10000				
STD 9	1	S9	0.05000				
STD 10	1	S10	0.00000				
CCV 0.4000	1	S6	0.38273				96%
	Known Conc:		100.00000				
	Calibration:		Table/Fig. : 1				
CCV 4.0000	1	S3	4.03296				101%
	Known Conc:		100.00000				
CCB	1	S10	0.02072				
	Known Conc:		100.00000				
HI ICV 8.0	1	1	8.36345				105%
LO ICV 1.0	1	2	1.02349				102%
ICB	1	3	0.00583				
WG1938788-1 T	1	4	0.01765				
WG1938788-2 T	1	5	38.93939		15.00		97%
LCS LO T	1	6	4.14539		3.00		104%
L2434232-02 T	1	7	19.70084		3.00		
WG1938788-4 T	1	8	28.39425		3.00		109%
WG1938788-3 T	1	9	20.50553		3.00		RPD=4%
L2434244-01 T	1	10	1.44436		3.00		
CCV 0.4000	1	S6	0.42492				106%
	Known Conc:		100.00000				
CCV 4.0000	1	S3	3.98325				100%
	Known Conc:		100.00000				
CCB	1	S10	0.03494				
	Known Conc:		100.00000				
L2434273-01 T	1	11	1.53713		6.00		
L2434274-01 T	1	12	2.80390		3.00		
L2434359-01 T	1	13	1.44742		3.00		
L2434374-01 T	1	14	0.33666		15.00		
L2434632-01 T	1	15	38.35708		15.00		
L2434633-01 T	1	16	16.06563		15.00		
L2434635-02 T	1	17	0.26533		3.00		
L2434644-01 T	1	18	6.06661		3.00		
L2434678-01 T	1	19	0.85407		3.00		
L2434678-02 T	1	20	0.66627		3.00		
CCV 0.4000	1	S6	0.39355				98%
	Known Conc:		100.00000				
CCV 4.0000	1	S3	4.00705				100%
	Known Conc:		100.00000				
CCB	1	S10	0.03173				
	Known Conc:		100.00000				
L2434809-01 T	1	21	0.87610		3.00		
L2434809-02 T	1	22	0.68719		3.00		
L2434812-01 T	1	23	0.89464		3.00		
CCV 0.4000	1	S6	0.38363				96%
	Known Conc:		100.00000				
CCV 4.0000	1	S3	4.04828				101%
	Known Conc:		100.00000				
CCB	1	S10	0.02692				
	Known Conc:		100.00000				

Author: A1WETCHEMINSTRUMENT

Date : 6/26/2024

Channel 2 (Ammonia High) - Current View

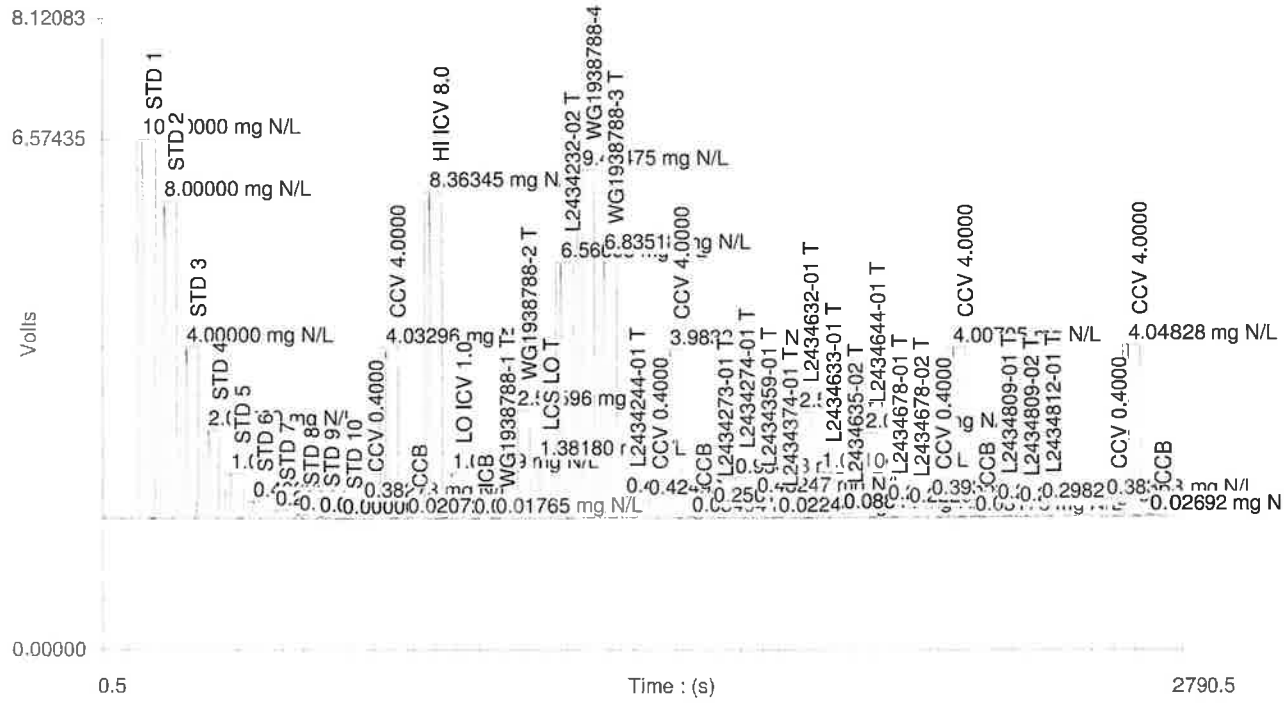


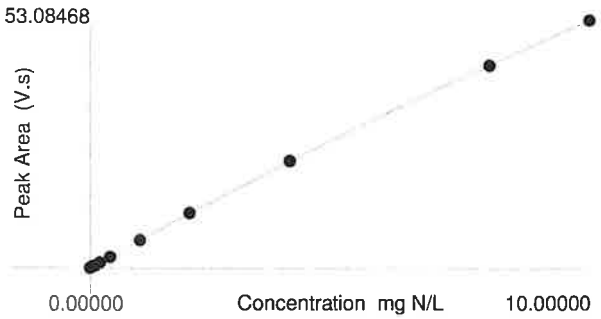
Table : 1 (Ammonia)

	Known Conc. (mg N/L)	Rep.	Peak Area (V.s)	Peak Height (V)	% RSD	% Residual	Det. Conc (mg N/L)	Detection Date	Detection Time
1	10.00000	1	53.08468	4.87833	0.0	-0.1	9.99375	6/26/2024	10:36:15 AM
2	8.00000	1	43.44610	4.07911	0.0	0.2	7.99809	6/26/2024	10:37:11 AM
3	4.00000	1	22.90318	2.21332	0.0	0.0	4.01073	6/26/2024	10:38:08 AM
4	2.00000	1	11.83504	1.14785	0.0	-0.8	2.01254	6/26/2024	10:39:05 AM
5	1.00000	1	6.01238	0.58562	0.0	-0.8	1.00355	6/26/2024	10:40:03 AM
6	0.40000	1	2.39097	0.22474	0.0	1.8	0.39068	6/26/2024	10:41:01 AM
7	0.20000	1	1.20854	0.11415	0.0	2.9	0.19301	6/26/2024	10:41:59 AM
8	0.10000	1	0.59983	0.04925	0.0	7.5	0.09172	6/26/2024	10:42:58 AM
9	0.05000	1	0.37393	0.03285	0.0	-6.9	0.05421	6/26/2024	10:43:56 AM
10	0.00000	1	0.06070	0.00256			0.00227	6/26/2024	10:44:52 AM

Author: A1WETCHEMINSTRUMENT

Date : 6/26/2024

Figure : 1 (Ammonia)



Area = - 0.06865 * Conc^2 + 5.98502 * Conc + 0.05058
Conc = 0.00043 * Area^2 + 0.16563 * Area - 0.00779
Correlation Coefficient (r) = 1.00000

Weighting : 1/x

Author: A1WETCHEMINSTRUMENT Date : 6/26/2024

Original Run Filename: OM_6-26-2024_05-13-30PM.OMN Created: 6/26/2024 5:13:30 PM
Original Run Author's Signature: [A1WETCHEMINSTRUMENT]
Current Run Filename: OM_6-26-2024_05-13-30PM.OMN Last Modified: 6/26/2024 5:41:01 PM
Current Run Author's Signature: [A1WETCHEMINSTRUMENT]
Description: Default New Run

Sample	Rep.	Cup No.	Channel 2 Ammonia (mg N/L)	ADF	MDF	Weight
CCV 0.4000	1	S6	0.37952	95%		
	Known Conc:		100.00000			
	Calibration:		Table/Fig. : 1			
CCV 4.0000	1	S3	4.01896	101%		
	Known Conc:		100.00000			
CCB	1	S10	0.01771			
	Known Conc:		100.00000			
WG1939578-1; BLK 6/26	1	1	-0.00049		1.50	95%
WG1939578-2; HI LCS; 5X	1	2	19.01848		7.50	96%
LO LCS	1	3	1.91959		1.50	
WG1939578-5; LOQ1	1	4	0.11236		1.50	
L2434530-01	1	5	14.18211		7.50	
L2434530-02	1	6	1.31486		1.50	
L2434531-01	1	7	5.21350		7.50	
L2434531-02	1	8	9.77041		1.50	
L2434679-01	1	9	0.29194		1.50	
L2434679-02	1	10	0.27711		1.50	
CCV 0.4000	1	S6	0.40053	100%		
	Known Conc:		100.00000			
CCV 4.0000	1	S3	4.01869	101%		
	Known Conc:		100.00000			
CCB	1	S10	0.02855			
	Known Conc:		100.00000			
L2434679-03	1	11	0.54804		1.50	
L2434679-04	1	12	0.93893		1.50	
L2434679-06	1	13	0.07782		1.50	
L2434679-07	1	14	0.02423		1.50	104%
WG1939578-4; 34679.7 MS	1	15	4.15329		1.50	NC(<4xLC)
WG1939578-3; 34679.7 DUP	1	16	0.17358	100%	1.50	
CCV 0.4000	1	S6	0.39973			
	Known Conc:		100.00000	101%		
CCV 4.0000	1	S3	4.03619			
	Known Conc:		100.00000			
CCB	1	S10	0.03110			
	Known Conc:		100.00000			

Author: A1WETCHEMINSTRUMENT Date : 6/26/2024

Channel 2 (Ammonia High) - Current View

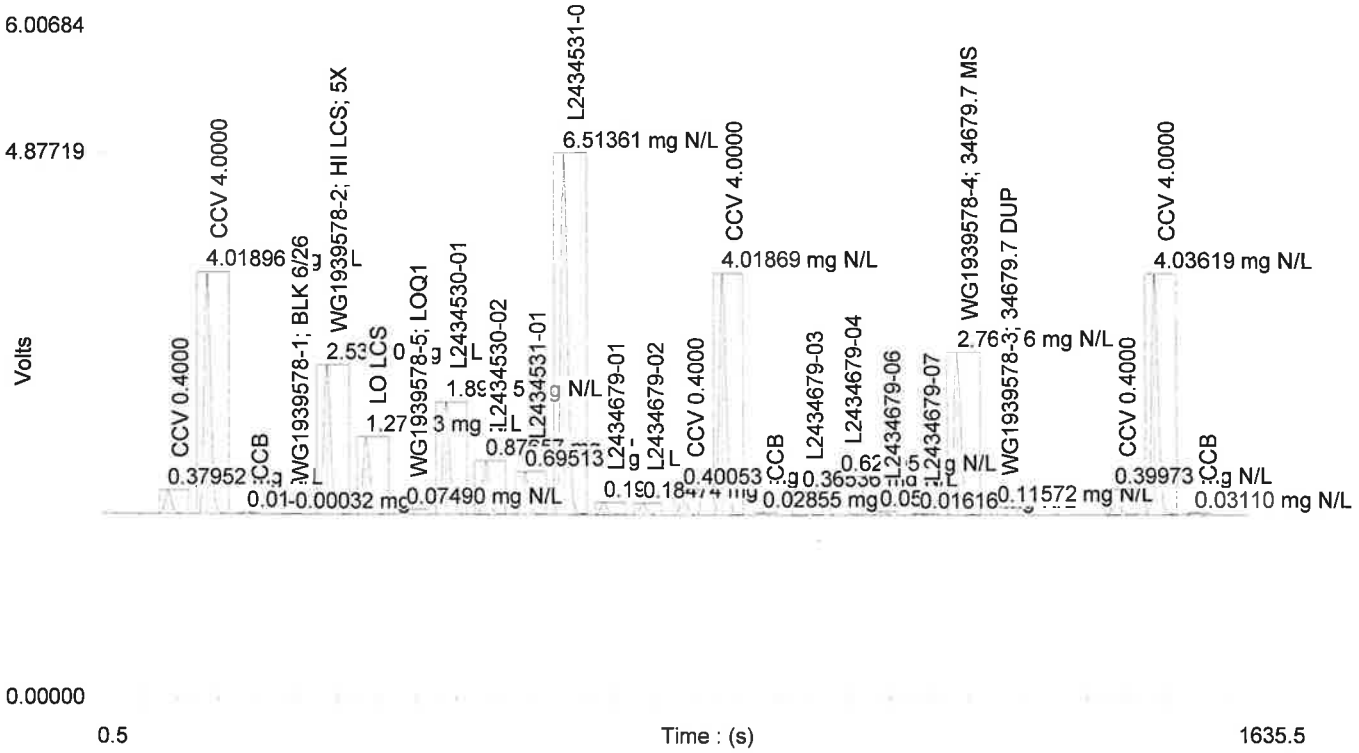
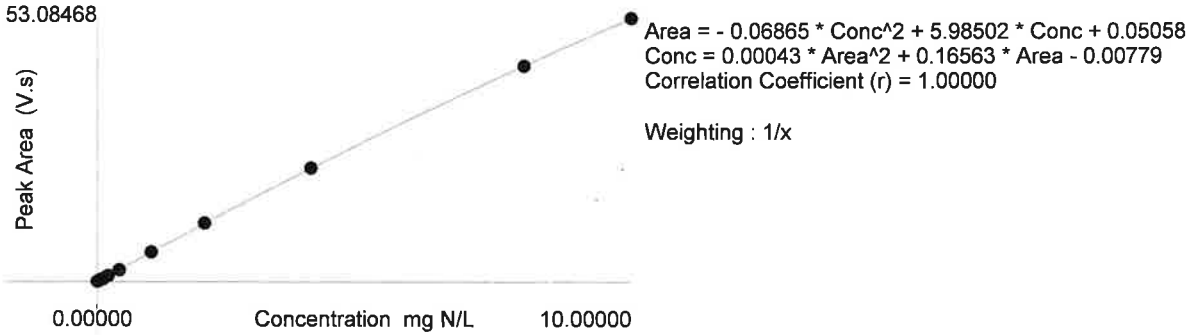


Table : 1 (Ammonia)

	Known Conc. (mg N/L)	Rep.	Peak Area (V.s)	Peak Height (V)	% RSD	% Residual	Det. Conc (mg N/L)	Detection Date	Detection Time
1	10.00000	1	53.08468	4.87833	0.0	-0.1	9.99375	6/26/2024	10:36:15 AM
2	8.00000	1	43.44610	4.07911	0.0	0.2	7.99809	6/26/2024	10:37:11 AM
3	4.00000	1	22.90318	2.21332	0.0	0.0	4.01073	6/26/2024	10:38:08 AM
4	2.00000	1	11.83504	1.14785	0.0	-0.8	2.01254	6/26/2024	10:39:05 AM
5	1.00000	1	6.01238	0.58562	0.0	-0.8	1.00355	6/26/2024	10:40:03 AM
6	0.40000	1	2.39097	0.22474	0.0	1.8	0.39068	6/26/2024	10:41:01 AM
7	0.20000	1	1.20854	0.11415	0.0	2.9	0.19301	6/26/2024	10:41:59 AM
8	0.10000	1	0.59983	0.04925	0.0	7.5	0.09172	6/26/2024	10:42:58 AM
9	0.05000	1	0.37393	0.03285	0.0	-6.9	0.05421	6/26/2024	10:43:56 AM
10	0.00000	1	0.06070	0.00256			0.00227	6/26/2024	10:44:52 AM

Figure : 1 (Ammonia)



Quality Control

Form 5a
Matrix Spike

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Client Sample ID	: MW-7C	**Matrix**	: WATER
Lab Sample ID	: L2434679-07		
Matrix Spike	: WG1939578-4	**MS Analysis Date**	: 06/26/24 17:33
Matrix Spike Dup	:	**MSD Analysis Date**	:

		Matrix Spike Sample			Matrix Spike Duplicate					
Parameter	Sample Conc. (mg/l)	Spike Added (mg/l)	Spike Conc. (mg/l)	%R	Spike Added (mg/l)	Spike Conc. (mg/l)	%R	RPD	Recovery Limits	RPD Limit
Nitrogen, Ammonia	0.024J	4	4.15	104					90-110	20

Form 5a
Matrix Spike

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Client Sample ID	: NA	**Matrix**	: WATER
Lab Sample ID	: L2434089-13		
Matrix Spike	: WG1939872-4	**MS Analysis Date**	: 06/27/24 17:50
Matrix Spike Dup	:	**MSD Analysis Date**	:

		Matrix Spike Sample				Matrix Spike Duplicate					
Parameter	Sample Conc. (mg/l)	Spike Added (mg/l)	Spike Conc. (mg/l)	%R		Spike Added (mg/l)	Spike Conc. (mg/l)	%R	RPD	Recovery Limits	RPD Limit
Nitrogen, Ammonia	0.333	4	4.77	111	Q					90-110	20

Form 5a
Matrix Spike

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Client Sample ID	: MW-8B2	**Matrix**	: WATER
Lab Sample ID	: L2434679-14		
Matrix Spike	: WG1939872-6	**MS Analysis Date**	: 06/27/24 18:13
Matrix Spike Dup	:	**MSD Analysis Date**	:

		Matrix Spike Sample				Matrix Spike Duplicate					
Parameter	Sample Conc. (mg/l)	Spike Added (mg/l)	Spike Conc. (mg/l)	%R		Spike Added (mg/l)	Spike Conc. (mg/l)	%R	RPD	Recovery Limits	RPD Limit
Nitrogen, Ammonia	ND	4	4.46	112	Q					90-110	20

Form 6
Lab Duplicates

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Client Sample ID	: MW-7C	**Matrix**	: WATER
Lab Sample ID	: L2434679-07	**Analysis Date**	: 06/26/24 17:32
Dup Sample ID	: WG1939578-3	**DUP Analysis Date**	: 06/26/24 17:34

Parameter	Sample Concentration (mg/l)	Duplicate Concentration (mg/l)	RPD	RPD Limit
Nitrogen, Ammonia	0.024J	0.174	NC	20

Form 6
Lab Duplicates

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Client Sample ID	: NA	**Matrix**	: WATER
Lab Sample ID	: NA	**Analysis Date**	: 06/27/24 17:49
Dup Sample ID	: WG1939872-3	**DUP Analysis Date**	: 06/27/24 17:51

Parameter	Sample Concentration (mg/l)	Duplicate Concentration (mg/l)	RPD	RPD Limit
Nitrogen, Ammonia	0.333	0.411	21 Q	20

Form 6
Lab Duplicates

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Client Sample ID	: MW-8B2	**Matrix**	: WATER
Lab Sample ID	: L2434679-14	**Analysis Date**	: 06/27/24 18:12
Dup Sample ID	: WG1939872-5	**DUP Analysis Date**	: 06/27/24 18:14

Parameter	Sample Concentration (mg/l)	Duplicate Concentration (mg/l)	RPD	RPD Limit
Nitrogen, Ammonia	ND	0.163	NC	20

Form 7
Laboratory Control Sample

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Client Sample ID	: NA	**Matrix**	: WATER
Lab Sample ID	: WG1939578-2	**LCS Analysis Date**	: 06/26/24 17:18
Dup Sample ID	:	**LCSD Analysis Date**	:

	Laboratory Control Sample			Laboratory Control Duplicate					
Parameter	**True (mg/l)**	**Found (mg/l)**	**%R**	**True (mg/l)**	**Found (mg/l)**	**%R**	**RPD**	**Recovery Limits**	**RPD Limit**
Nitrogen, Ammonia	**20.0**	**19.0**	**95.**					**90-110**	**20**

Form 7
Laboratory Control Sample

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Client Sample ID	: NA	**Matrix**	: WATER
Lab Sample ID	: WG1939872-2	**LCS Analysis Date**	: 06/27/24 17:47
Dup Sample ID	:	**LCSD Analysis Date**	:

	Laboratory Control Sample			Laboratory Control Duplicate					
Parameter	**True (mg/l)**	**Found (mg/l)**	**%R**	**True (mg/l)**	**Found (mg/l)**	**%R**	**RPD**	**Recovery Limits**	**RPD Limit**
Nitrogen, Ammonia	**20.0**	**21.6**	**108.**					**90-110**	**20**

Date Created: 11/11/21
Created By: Jason Hebert
File: PM11467-1
Page: 1

WETCHEM (WATER)

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Method	Holding Time	Container/Sample Preservation
Nitrogen, Ammonia	7664-41-7	0.075	0.024	mg/l	80-120	20	80-120	20	20	4500NH3-BH	28 days	1 - Plastic 500ml H2SO4 preserved
Nitrogen, Ammonia	7664-41-7	0.075	0.024	mg/l	90-110	20	90-110	20	20	350.1	28 days	1 - Plastic 500ml H2SO4 preserved

Please Note that the RL information provided in this table is calculated using a 100% Solids factor. (Soil/Solids only)
Please Note that the information provided in this table is subject to change at anytime at the discretion of Alpha Analytical, Inc.

Date Created: 11/11/21
Created By: Jason Hebert
File: PM11468-1
Page: 1

WETCHEM (SOIL)

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Method	Holding Time	Container/Sample Preservation
Nitrogen, Ammonia	7664-41-7	7.5	2.79	mg/kg	83-115	20	55-144	20	20	4500NH3-BH	28 days	1 - Glass 250ml/8oz unpreserved

Please Note that the RL information provided in this table is calculated using a 100% Solids factor. (Soil/Solids only)
Please Note that the information provided in this table is subject to change at anytime at the discretion of Alpha Analytical, Inc.

Calculations of Nitrogen in Ammonia

Aqueous samples:

Compute sample NH_3 –N concentration by comparing sample peak areas with standard curve, as determined by the Lachat instrument software.

If the sample has a concentration of less than 2ppm, calculate results by using the low curve generated on Channel 1.

If the sample concentration is greater than 2ppm, calculate the results by using the high curve generated on Channel 2.

To Compute the final results for aqueous samples, multiply the direct reading by the dilution factor based on the initial preparation volume. (also done using software)

NH_3-N mg/L = mg/L direct reading x dilution factor

Sequence Logs

Project No. _____

idential Book No. _____ TITLE NH3 6/26/24 KTP

Page No. ____

Tray A (10-35-00 AM)
prep 6/25/24 @8:27

Hi ICV 8.0
Lo ICV 1.0
ICB
1 WW1938788-1T, Blk
-2T, LCS Hi, 5x
LCS Lo T
34232-02T
-02T MS
-02T Dup
34244-01T
34273-01T (2x)
34274-01T
34359-01T
34374-01T (5x)
34632-01T (5x)
34633-01T (5x)
34635-02T
34644-01T
34678-01T
-02T
34809-01T
-02T
34812-01T

Tray B (11-25-14 AM, 12-08-26 PM)
prep 6/25/24 @22:13

1 WW1939268-1, Blk
2 -2, LCS Hi, 5x
3 - LCS Lo
4 31168-01
5 -04
6 -06
7 32922-01 (~~2x~~ KTP) (5x)
⊗ 8 -02; remn
9 -03
10 33630-01
11 -04
12 -07
13 -10
14 -13
15 -16
16 -19
17 34494-1
18 34573-01
19 -02
⊗ 20 34591-01, 20x 0.5+10
21 34595-01
22 34678-01
23 -02
24 -02 MS
25 -02 Dup

KTP

Date: 6/26/24
Sodium Phenolate: 5/27/24 R-4065
Sodium Hypochlorate: 5/27/24 stop&shop
Sodium Nitropruisside: 5/27/24 R-3969
Borric Acid Soln.: 5/27/24 R-4076
ICV 1.0:
ICV 8.0: 6/4/24 WC-3433
Cal. Std: 6/4/24 WC-3392
See Front Page for Instructions:

To Page No. ____

essed & Understood by me, | Date | Invented by: | Date
Recorded by:

Tray C (12-34-33PM)
prep 6/25/24 @ 22:34

1	WW193927	-1T, Blk	
2		-2T, LCS Hi, 5x	
3		LCS LoT	
4	34484	-01	
5		-02	
6		-03	
7		-04	
8		-05	
9		-06	
10		-07 (5x)	
11	34519	-01	
12		-02	
13	34530	-01 (5x)	
14		-02 (5x)	
15	34531	-01	
16		-02	
17	34573	-01	
18		-02	
19		-02	MS
20		-02	Dup

tzy → (05-13-30 pm)
prep 6/26/24 @ 10:48

1	WW-193578-1; Blk 6/26
2	WW-193578-2; LCS 5x
3	(LCS)
4	WW-193578-5; LOQ7
5	34530.1 (5x)
6	.2
7	34531.1 (5x)
8	.2
9	34679.1
10	.2
11	.3
12	.4
13	.6
14	.7
15	WW-193578-4; 34679.7MS
16	WW-193578-3; 34679.7 DP

To Page N

Witnessed & Understood by me, Date

Invented by: Date

Recorded by:

Project No. _____

dential Book No. _____ TITLE NH3 6/27/24 WOP

Page No. ____

Tray A(11-50-05AM, 12-22-51PM, 12-44-02PM)
prep 6/26/24 @22:51

MiTCV 8.0
LoTCV 1.0
ICB
WG1939878-1T, BLK
-2T, LCS Hi, 5x
LCS LoT
34847-01T
-01T MS
-01T Dup
34850-01T(5x)
34885-02T
34904-03T(5x)
-06T
34907-01T
34919-01T
35029-01T
35030-01T(5x)
-02T(5x)
35032-01T(5x)
35034-01T(10x)
35035-01T(10x)
36235-01T
-02T

Tray B(01-01-04PM)
prep 6/26/24 @22:55

1 WG1939874-1, BLK
2 -2, LCS Hi, 5x
3 LCS Lo
4 33630-22
5 -25
6 -28
7 36235-01
8 -02
9 -02 MS
10 -02 Dup

1
2
3
4
5
6
7
8
9
10 WOP
11
12
13
14
15
16
17
18
19
20
21
22

WTP

ate: 6/27/24
odium Phenolate: 5/27/24 R-4065
odium Hypochlorate: 5/27/24 stop+shop
odium Nitropruisside: 5/27/24 R-3969
orric Acid Soln.: 5/27/24 R-4016
V 1.0: 6/4/24 WL-3433
V 8.0:
d. Std: 6/4/24 WC-3392
e Front Page for Instructions:

To Page No. ____

sed & Understood by me, | Date | Invented by: | Date
Recorded by:

TITLE NH3 6/27/24 KBP cont. Project No. Book No. Confi

From Page No.

Tray C (02-31-51PM, 03-10-32PM)
prep @16:43 6/26/24

1	WG1939567-1T, Blk	
2	-2T; LCS Hi, 5X	
3	LCS Lo T	
4	~~KBP 43~~ 34578-01T (2x)	
5	34591-01T; 10x 1+10	
6	34593-01T (2x)	
7	34595-01T	
8	34679-01T	
9	-02T	
10	-03T	
11	-04T	
12	-05T	
13	-06T	
14	-07T	
15	-08T	
16	-09T	
17	-10T	
18	-11T	
19	-14T	
20	-14T Dup	
21	-14T MS	
22	35116-01T	
23 KBP		
24		

KBP

Tray D (04-16-32PM)
prep 6/27/24 @13:27

1	WG1940216-1, Blk
2	-5; LOQ
3	-2; LCS Hi, 5X
4	LCS Lo

tk. E (05-42-22PM)
f-p 6/26/24 @2300

1	(WG1939872-1; Blk 6/26
2	WG1939872-2; Hi MS 5+
3	Lo MS
4	34089.13
5	WG1939872-4; 34089.13 MS
6	WG1939872-3; 34089.13 Dup
7	34089.14
8	.15 (10+)
9	.16 (20+)
10	.17
11	.18
12	.19
13	.20
14	.21
15	.22
16	.23 (20+)
17	.24
18	34679.5
19	.8
20	.9
21	.10
22	.11
23	.14
24	WG1939872-6; 34679.14 MS
25	WG1939872-5; 34679.14 Dup
X 26	34091.1 -10X
+ 27	.2

→ 06-25-13PM

To Page N

Witnessed & Understood by me,	Date	Invented by:	Date
		Recorded by:	

tg.F (06-39-19pm)
Pup 6/27/24 @1333

1	WL-940304-1 · Blk 6/27 soil	(1.0698)
2	WL-940304-2; Hi vs Soil-5+	(1.0372)
3	6 vs soil	(1.0157)
4	33109.1	(1.0256)
5	WL-940304-33109.1 vs	(1.0785)
6	WL-940304-3; 33109.1 bp	(1.0732)
7	33109.2	(1.0130)
8	.3	(1.1372)
9	WL-940304-5; LOQ1	(1.0567)

tg.G (06-49-12pm)
Pup 6/26/24 @1634

1	WL-939572-1 T-Blk 6/26 soil	(0.1164)
2	WL-939572-2 T; Hi vs Soil-5+	(0.1450)
3	6 vs T Soil	(0.1113)
4	35022.1 T	(0.1166)
5	.2 T	(0.1498)
6	WL-939572-4 T; 35022.2 vs	(0.1135)
7	WL-939572-3 T; 35022.2 bp	(0.1457)

tg.H (07-8-27pm)
Pup 6/27/24 @1815

1	WL-940186-1; Blk 6/27	
2	WL-940186-2; Hi vs-5+	
3	6 vs	
4	34979.1	
5	WL-940186-4-34979.1 vs	
6	WL-940186-3; 34979.1 bp	
7	34840-1 (2+)	
8	34837.2 (2+)	
9	34827-1	
10	34976-1	
11	34876-1	
12	.2	
13	34818-1 (10+)	
14	.2	
15	34819-1 (5+)	
16	.2	
17	34904.3 (10+)	
18	.6	
19	34886-1 (10+)	
20	.2	
21	34885.2	
22	34965-1 -10+	
23	.2 -10+	
24	34966.1	
25	34977-1	

07-48-07PM

To Page No. ____

wks 6/27/24 @ CW.

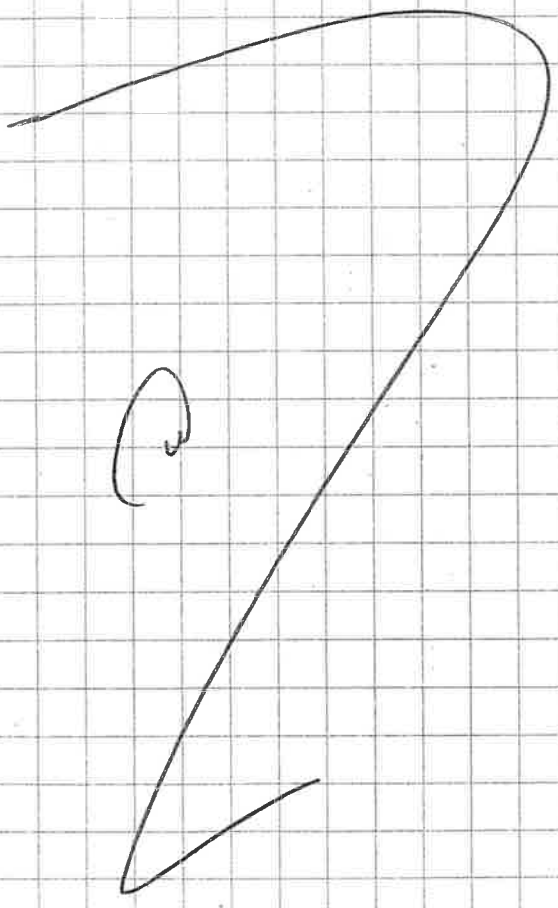
TITLE _____ Project No. _____

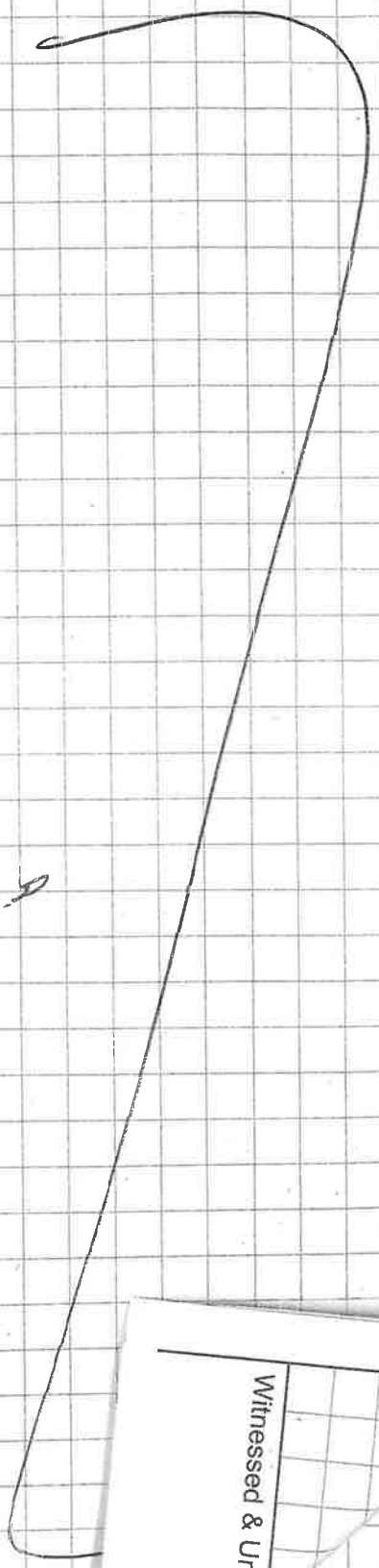
Book No. _____ Confid

From Page No. ____

tfg - I (09-22-16 pm)
prep 6/27/24 @ 8:45

1 wk-1940508-1 · BM 6/27
2 wk-1940508-2; Hi-vg-5 +
3 lo vg
4 28986.9
5 wk-1940508-3; LOQ1
6 wk-1940509-1; BM 6/27 Sil (1.0000)
7 wk-1940509-2; Hi vg Sil-5 +
8 lo vg Sil
9 28986.10
10 wk-1940509-3; LOQ1





Witnessed & Understood by me, | Date | Invented by: | Date

Recorded by:

To Page No

Sample Preparation

From Page No. ____

Sample	Volume	Dilution	Init. pH	Adj pH	Final vol
	100mL	1X	L2	~9.5	250mL
Blank					
LCW					
High					
L2434089 - 13		10X (10/100) matrix			
- 13 DUP		20X (5/100) matrix			
- 13 MS		1X			
- 14					
- 15					
- 16					
- 17					
- 18					
- 19					
- 20					
- 21					
- 22					
- 23		20X (5/100) matrix			
- 24		1X			
4091 - 01					
- 02					
4679 - 05					
- 08					
- 09					
- 10					
- 11					
- 14 PA					
- 14 DUP					
- 14 MS					

Same standards as reagents as previous page # 183

06/26/24 @ 23:00 EGF

To Page Da

Witnessed & Understood by me, | Date | Invented by: | Recorded by:

WG1939578

Sample	Dil.	Vol.	Int. pH	Adj. pH	Final Vol.
Blank	1x	100mL	<2	~9.5	150mL
LOQ1					
Low					
High					
L2434530-01	5x (20+100) Mx. INF				
-02	1x				
34531-01	5x (20+100) Mx. INF				
-02	1x				
34679-01					
-02					
-03					
-04					
-06					
-07 Pt					
-07 Dup					
-07 MS					

Same std's of Reagents as previous pg # 181

06 26 24 (a) 16:48 SAD

To Page No. ____

itnessed & Understood by me,	Date	Invented by:	Date
		Recorded by:	

Nitrate and Nitrite Analysis

Results

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Lab ID	: L2434679-01	**Date Collected**	: 06/19/24 09:30
Client ID	: MW-3A	**Date Received**	: 06/19/24
Sample Location	: MANORVILLE, NY	**Date Analyzed**	: 06/25/24 03:45
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 44,353.2	**Analyst**	: KAF
Lab File ID	: NO3240625-A1	**Instrument ID**	: LACHAT
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Nitrogen, Nitrate/Nitrite	0.078	0.10	0.046	J

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Lab ID	: L2434679-02	**Date Collected**	: 06/18/24 16:35
Client ID	: MW-6A	**Date Received**	: 06/19/24
Sample Location	: MANORVILLE, NY	**Date Analyzed**	: 06/25/24 03:48
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 44,353.2	**Analyst**	: KAF
Lab File ID	: NO3240625-A1	**Instrument ID**	: LACHAT
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Nitrogen, Nitrate/Nitrite	0.053	0.10	0.046	J

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Lab ID	: L2434679-03	**Date Collected**	: 06/18/24 14:50
Client ID	: MW-6B	**Date Received**	: 06/19/24
Sample Location	: MANORVILLE, NY	**Date Analyzed**	: 06/25/24 03:52
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 44,353.2	**Analyst**	: KAF
Lab File ID	: NO3240625-A1	**Instrument ID**	: LACHAT
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Nitrogen, Nitrate/Nitrite	ND	0.10	0.046	U

Form 1
WETCHEM

Client	:	**Alpha Geoscience**	**Lab Number**	:	**L2434679**
Project Name	:	**RANCO MINE**	**Project Number**	:	**12123**
Lab ID	:	**L2434679-04**	**Date Collected**	:	**06/18/24 14:49**
Client ID	:	**MW-6C**	**Date Received**	:	**06/19/24**
Sample Location	:	**MANORVILLE, NY**	**Date Analyzed**	:	**06/25/24 03:57**
Sample Matrix	:	**WATER**	**Dilution Factor**	:	**1**
Analytical Method	:	**44,353.2**	**Analyst**	:	**KAF**
Lab File ID	:	**NO3240625-A1**	**Instrument ID**	:	**LACHAT**
Sample Amount	:		**%Solids**	:	**N/A**
Digestion Method	:		**Date Digested**	:	

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	**Nitrogen, Nitrate/Nitrite**	**ND**	**0.10**	**0.046**	**U**

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Lab ID	: L2434679-05	**Date Collected**	: 06/18/24 10:15
Client ID	: MW-7A	**Date Received**	: 06/19/24
Sample Location	: MANORVILLE, NY	**Date Analyzed**	: 06/25/24 03:59
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 44,353.2	**Analyst**	: KAF
Lab File ID	: NO3240625-A1	**Instrument ID**	: LACHAT
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Nitrogen, Nitrate/Nitrite	0.96	0.10	0.046	

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Lab ID	: L2434679-06	**Date Collected**	: 06/18/24 12:05
Client ID	: MW-7B	**Date Received**	: 06/19/24
Sample Location	: MANORVILLE, NY	**Date Analyzed**	: 06/25/24 04:00
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 44,353.2	**Analyst**	: KAF
Lab File ID	: NO3240625-A1	**Instrument ID**	: LACHAT
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Nitrogen, Nitrate/Nitrite	0.24	0.10	0.046	

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Lab ID	: L2434679-07	**Date Collected**	: 06/18/24 12:12
Client ID	: MW-7C	**Date Received**	: 06/19/24
Sample Location	: MANORVILLE, NY	**Date Analyzed**	: 06/25/24 04:01
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 44,353.2	**Analyst**	: KAF
Lab File ID	: NO3240625-A1	**Instrument ID**	: LACHAT
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Nitrogen, Nitrate/Nitrite	1.5	0.10	0.046	

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Lab ID	: L2434679-08	**Date Collected**	: 06/18/24 16:47
Client ID	: MW-8A	**Date Received**	: 06/19/24
Sample Location	: MANORVILLE, NY	**Date Analyzed**	: 06/25/24 04:03
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 44,353.2	**Analyst**	: KAF
Lab File ID	: NO3240625-A1	**Instrument ID**	: LACHAT
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Nitrogen, Nitrate/Nitrite	1.0	0.10	0.046	

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Lab ID	: L2434679-09	**Date Collected**	: 06/18/24 18:25
Client ID	: MW-8B	**Date Received**	: 06/19/24
Sample Location	: MANORVILLE, NY	**Date Analyzed**	: 06/25/24 04:04
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 44,353.2	**Analyst**	: KAF
Lab File ID	: NO3240625-A1	**Instrument ID**	: LACHAT
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Nitrogen, Nitrate/Nitrite	ND	0.10	0.046	U

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Lab ID	: L2434679-10	**Date Collected**	: 06/19/24 11:00
Client ID	: MW-9B	**Date Received**	: 06/19/24
Sample Location	: MANORVILLE, NY	**Date Analyzed**	: 06/25/24 04:05
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 44,353.2	**Analyst**	: KAF
Lab File ID	: NO3240625-A1	**Instrument ID**	: LACHAT
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Nitrogen, Nitrate/Nitrite	5.4	0.10	0.046	

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Lab ID	: L2434679-11	**Date Collected**	: 06/18/24 00:00
Client ID	: DUP	**Date Received**	: 06/19/24
Sample Location	: MANORVILLE, NY	**Date Analyzed**	: 06/25/24 04:06
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 44,353.2	**Analyst**	: KAF
Lab File ID	: NO3240625-A1	**Instrument ID**	: LACHAT
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Nitrogen, Nitrate/Nitrite	1.0	0.10	0.046	

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Lab ID	: L2434679-14	**Date Collected**	: 06/18/24 18:07
Client ID	: MW-8B2	**Date Received**	: 06/19/24
Sample Location	: MANORVILLE, NY	**Date Analyzed**	: 06/25/24 04:08
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 44,353.2	**Analyst**	: KAF
Lab File ID	: NO3240625-A1	**Instrument ID**	: LACHAT
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Nitrogen, Nitrate/Nitrite	0.54	0.10	0.046	

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Lab ID	: WG1938799-1	**Date Collected**	: NA
Client ID	: WG1938799-1BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 06/25/24 03:08
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 44,353.2	**Analyst**	: KAF
Lab File ID	: NO3240625-A1	**Instrument ID**	: LACHAT
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Nitrogen, Nitrate/Nitrite	ND	0.10	0.046	U

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Lab ID	: WG1938799-3	**Date Collected**	: 06/19/24 09:30
Client ID	: MW-3ADUP	**Date Received**	: 06/19/24
Sample Location	:	**Date Analyzed**	: 06/25/24 03:46
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 44,353.2	**Analyst**	: KAF
Lab File ID	: NO3240625-A1	**Instrument ID**	: LACHAT
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Nitrogen, Nitrate/Nitrite	0.061	0.10	0.05	J

Sample Raw Data

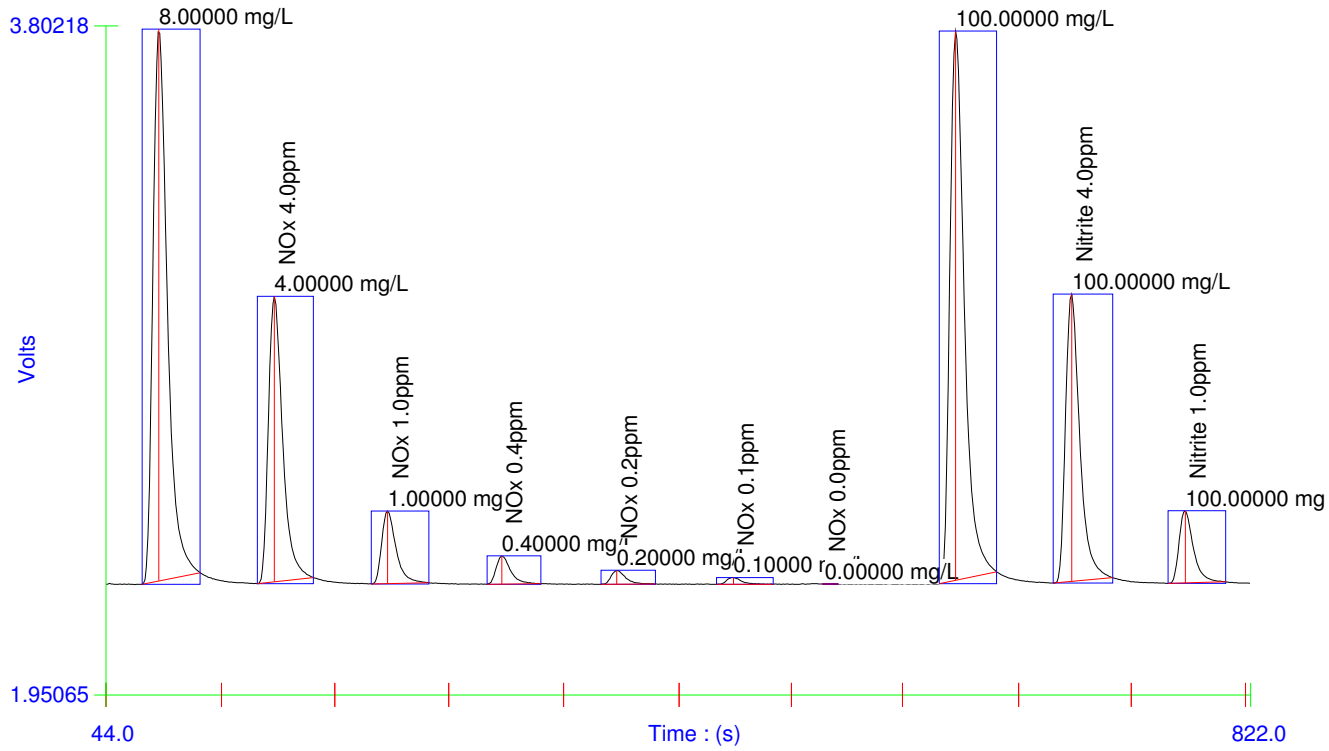
Original Run Filename: OM_6-25-2024_02-22-41AM.OMN Created: 6/25/2024 2:22:41 AM
Original Run Author's Signature: [A1wetcheminstrument]
Current Run Filename: OM_6-25-2024_02-22-41AM.OMN Last Modified: 6/25/2024 5:48:03 AM
Current Run Author's Signature: [A1wetcheminstrument]
Description: Default New Run

Sample	Rep.	Cup No.	Channel 1 NO3+NO2 (mg/L)	Channel 2 Nitrite (mg N/L)	ADF	MDF	Weight
NOx 8.0ppm	1	S3	8.00000	100.00000			
NOx 4.0ppm	1	S4	4.00000	100.00000			
NOx 1.0ppm	1	S2	1.00000	100.00000			
NOx 0.4ppm	1	S5	0.40000	100.00000			
NOx 0.2ppm	1	S6	0.20000	100.00000			
NOx 0.1ppm	1	S7	0.10000	100.00000			
NOx 0.0ppm	1	S1	0.00000	100.00000			
Nitrite 8.0ppm	1	S10	100.00000	8.00000			
Nitrite 4.0ppm	1	S11	100.00000	4.00000			
Nitrite 1.0ppm	1	S9	100.00000	1.00000			
Nitrite 0.4ppm	1	S12	100.00000	0.40000			
Nitrite 0.1ppm	1	S13	100.00000	0.10000			
Nitrite 0.05ppm	1	S14	100.00000	0.05000			
Nitrite 0.0ppm	1	S1	100.00000	0.00000			
CCV NO3	1	S2	1.05920	-0.00208			
	Known Conc:		1.00000	0.00000			
	Calibration:		Table/Fig. : 1	Table/Fig. : 2			
CCV NO2	1	S9	1.03507	1.05788			
	Known Conc:		0.00000	1.00000			
CCB	1	S1	0.00439	-0.00634			
	Known Conc:		0.00000	0.00000			
ICV NO3 5.0	1	1	5.08144	-0.00725			
ICV NO2 5.0	1	2	5.16895	5.09592			
ICV NO3 0.5	1	3	0.51441	0.00332			
ICV NO2 0.5	1	4	0.50920	0.51811			
ICB	1	5	-0.00443	-0.00589			
DILUTER CHK 8PPM	1	6	8.53473	-0.00073	5.00		
BLK NO3	1	7	-0.00542	-0.00643			
LCS NO3	1	8	5.10417	-0.00202			
BLK NO2	1	9	-0.01303	-0.00520			
LCS NO2	1	10	5.09493	5.06314			
CCV NO3	1	S2	1.05347	-0.01041			
	Known Conc:		1.00000	0.00000			
CCV NO2	1	S9	1.02635	1.05959			
	Known Conc:		0.00000	1.00000			
CCB	1	S1	-0.00897	-0.00465			
	Known Conc:		0.00000	0.00000			
WG1938796-1; NO2	1	11	-0.00432	0.00147			
WG1938796-2; NO2	1	12	5.13237	5.09591			
WG1938797/798-1; NO3	1	13	-0.00676	-0.01376			
WG1938797/798-2; NO3	1	14	5.09065	-0.00418			
WG1938799-1; CNO3	1	15	-0.01564	-0.00170			
WG1938799-2; CNO3	1	16	5.07117	0.00026			
WG1938800-1; CNO3	1	17	-0.01415	-0.00830			
WG1938800-2; CNO3	1	18	5.06236	-0.00643			
WG1938801-1; CNO3	1	19	-0.00545	-0.00196			
WG1938801-2; CNO3	1	20	5.07214	-0.00865			
CCV NO3	1	S2	1.05940	-0.01236			
	Known Conc:		1.00000	0.00000			
CCV NO2	1	S9	1.03131	1.06124			
	Known Conc:		0.00000	1.00000			
CCB	1	S1	-0.00518	-0.00100			
	Known Conc:		0.00000	0.00000			
L2435494-01F	1	21	32.79215	0.07765			
WG1938797-3; DUP NO3 494-01	1	22	32.83339	0.07702			
WG1938797-4; MS NO3 494-01	1	23	71.65961	0.06603	25.00		
WG1938796-3; DUP NO2 494-01	1	24	32.65766	0.07520			
WG1938796-4; MS NO2 494-01	1	25	32.91773	4.24202			
L2435494-01F	1	21	68.91069	0.10176	25.00		

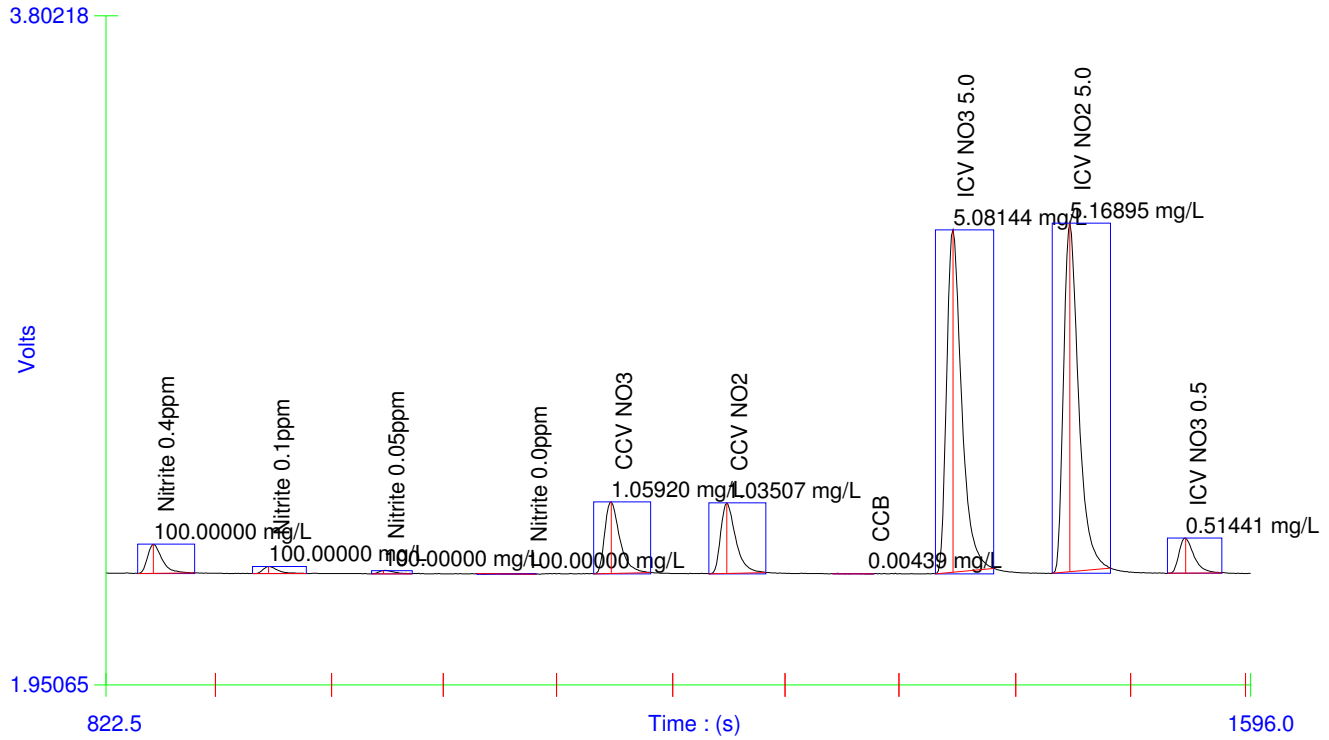
WG1938797-3; DUP NO3 494-01	1	22	68.82221	0.07386	25.00		
L2435499-01A	1	26	0.66699	0.00071			
L2435499-02A	1	27	0.02092	0.00230			
L2435499-03A	1	28	0.56525	-0.00036			
CCV NO3	1	S2	1.06654	-0.00139			
	Known Conc:		1.00000	0.00000			
CCV NO2	1	S9	1.03933	1.07131			
	Known Conc:		0.00000	1.00000			
CCB	1	S1	-0.00741	-0.01111			
	Known Conc:		0.00000	0.00000			
L2435612-01I	1	29	0.03841	0.00781			
WG1938798-3; DUP NO3 612-01	1	30	0.02648	0.00426			
WG1938798-4; MS NO3 612-01	1	31	4.15077	0.02677			
L2434679-01R	1	32	0.07757	-0.00349			
WG1938799-3; DUP CNO3 679-01	1	33	0.06065	-0.00062			
WG1938799-4; MS CNO3 679-01	1	34	4.29385	0.00206			
L2434679-02R	1	35	0.05345	0.00104			
WG1938799-5; DUP CNO3 679-02	1	36	0.03657	-0.00212			
WG1938799-6; MS CNO3 679-02	1	37	4.22652	-0.00322			
L2434679-03R	1	38	0.02276	-0.00736			
CCV NO3	1	S2	1.06625	-9.99832e-7			
	Known Conc:		1.00000	0.00000			
CCV NO2	1	S9	1.04035	1.07102			
	Known Conc:		0.00000	1.00000			
CCB	1	S1	-0.00538	-0.00712			
	Known Conc:		0.00000	0.00000			
L2434679-04R	1	39	0.03015	-0.01323			
L2434679-05R	1	40	0.96117	-0.00444			
L2434679-06R	1	41	0.23820	-0.00418			
L2434679-07R	1	42	1.49475	0.00049			
L2434679-08R	1	43	1.04510	0.00175			
L2434679-09R	1	44	0.02866	-0.00545			
L2434679-10R	1	45	5.40009	0.00019			
L2434679-11R	1	46	1.05516	-0.00296			
L2434679-14R	1	47	0.53623	-0.00256			
L2435116-01E	1	48	0.34914	0.00241			
CCV NO3	1	S2	1.08151	8.53013e-5			
	Known Conc:		1.00000	0.00000			
CCV NO2	1	S9	1.05439	1.07772			
	Known Conc:		0.00000	1.00000			
CCB	1	S1	-0.00649	-0.00687			
	Known Conc:		0.00000	0.00000			
L2435493-02A	1	49	2.24532	1.61113			
L2435642-01H	1	50	0.15586	0.02067			
L2435642-02H	1	51	0.10709	0.00013			
L2435655-01E	1	52	0.04358	0.00017			
L2435655-02E	1	53	0.04395	-0.00739			
L2435241-01A	1	54	0.02717	0.00058			
WG1938800-3; DUP CNO3 241-01	1	55	0.01067	-0.00065			
WG1938800-4; MS CNO3 241-01	1	56	4.19157	-0.00593			
L2435241-02A	1	57	0.15694	-0.00170			
L2435241-03A	1	58	0.03504	0.00038			
CCV NO3	1	S2	1.07971	-0.00237			
	Known Conc:		1.00000	0.00000			
CCV NO2	1	S9	1.05471	1.08038			
	Known Conc:		0.00000	1.00000			
CCB	1	S1	-0.01020	-0.00607			
	Known Conc:		0.00000	0.00000			
L2435241-04A	1	59	2.37692	-0.01258			
L2435241-05A	1	60	5.06475	-0.00123			
L2435241-06A	1	61	0.19792	-0.00104			
L2435241-07A	1	62	0.30754	-0.00473			
L2435241-08A	1	63	0.42300	0.00084			
L2435241-09A	1	64	0.02603	-0.00287			
L2434244-01A	1	65	4.22738	0.02314			
WG1938801-3; DUP CNO3 244-01	1	66	4.26899	0.02280			
WG1938801-4; MS CNO3 244-01	1	67	8.19418	0.02125			
WG1938801-4; MS CNO3 244-01	1	67	8.39847	0.01867	5.00		

CCV NO3	1	S2	1.07503	-0.00202			
	Known Conc:		1.00000	0.00000			
CCV NO2	1	S9	1.05631	1.07347			
	Known Conc:		0.00000	1.00000			
CCB	1	S1	-0.00087	-0.00033			
	Known Conc:		0.00000	0.00000			
L2435420-01A	1	68	1.08604	0.00304			
L2435420-04A	1	69	16.07217	0.00202			
L2435570-01A	1	70	1.16611	0.00728			
WG1938831-3; DUP NO2 570-01	1	71	1.17451	0.00514			
WG1938831-4; MS NO2 570-01	1	72	5.35410	4.21062			
L2435572-01I	1	73	0.23297	-0.00234			
WG1938832-3; DUP NO3 572-01	1	74	0.21923	0.00366			
WG1938832-4; MS NO3 572-01	1	75	4.40553	0.03199			
L2435420-04A	1	69	18.16450	-0.02559	5.00		
L2435570-01A	1	70	1.15814	0.00682			
CCV NO3	1	S2	1.07281	-0.00398			
	Known Conc:		1.00000	0.00000			
CCV NO2	1	S9	1.06062	1.07537			
	Known Conc:		0.00000	1.00000			
CCB	1	S1	-0.00134	-0.00301			
	Known Conc:		0.00000	0.00000			
L2435585-01G	1	76	0.95593	-0.00394			
WG1938797-5; DUP NO3 585-01	1	77	0.92351	-0.00288			
WG1938797-6; MS NO3 585-01	1	78	5.10394	-0.00226			
L2435585-02G	1	79	0.00385	0.00484			
L2435562-01M	1	80	0.01667	0.01285			
L2435562-02M	1	81	0.02206	0.00651			
L2435562-03M	1	82	0.02044	-0.00820			
L2435562-04M	1	83	0.23434	0.01852			
L2435562-05M	1	84	0.02250	-0.00283			
WG1938839-1; NO3 5.0117	1	85	0.24585	-0.04928			0.10023 g
CCV NO3	1	S2	1.07976	-0.00191			
	Known Conc:		1.00000	0.00000			
CCV NO2	1	S9	1.05580	1.07855			
	Known Conc:		0.00000	1.00000			
CCB	1	S1	-0.00882	-0.00625			
	Known Conc:		0.00000	0.00000			
WG1938839-2; NO3 5.1385	1	86	50.63366	-0.00993			0.10277 g
L2434569-01B; 5.2845	1	87	359.79132	1.16832			0.10569 g
WG1938839-3; DUP NO3 569-01 5.2515	1	88	358.83255	1.19553			0.10503 g
WG1938839-4; MS NO3 569-01 5.2457	1	89	1053.63208	1.03158	5.00		0.10491 g
L2434571-01B; 5.2666	1	90	326.05640	0.29933			0.10533 g
L2434569-01B; 5.2845	1	87	1213.85205	0.93811	10.00		0.10569 g
WG1938839-3; DUP NO3 569-01 5.2515	1	88	1225.13916	0.97681	10.00		0.10503 g
WG1938839-4; MS NO3 569-01 5.2457	1	89	1347.67749	-0.15957	50.00		0.10491 g
L2434571-01B; 5.2666	1	90	-2.36071	13.23912	10.00		0.10533 g
CCV NO3	1	S2	1.07042	-0.00470			
	Known Conc:		1.00000	0.00000			
CCV NO2	1	S9	1.03809	1.05139			
	Known Conc:		0.00000	1.00000			
CCB	1	S1	-0.01556	-0.00521			
	Known Conc:		0.00000	0.00000			

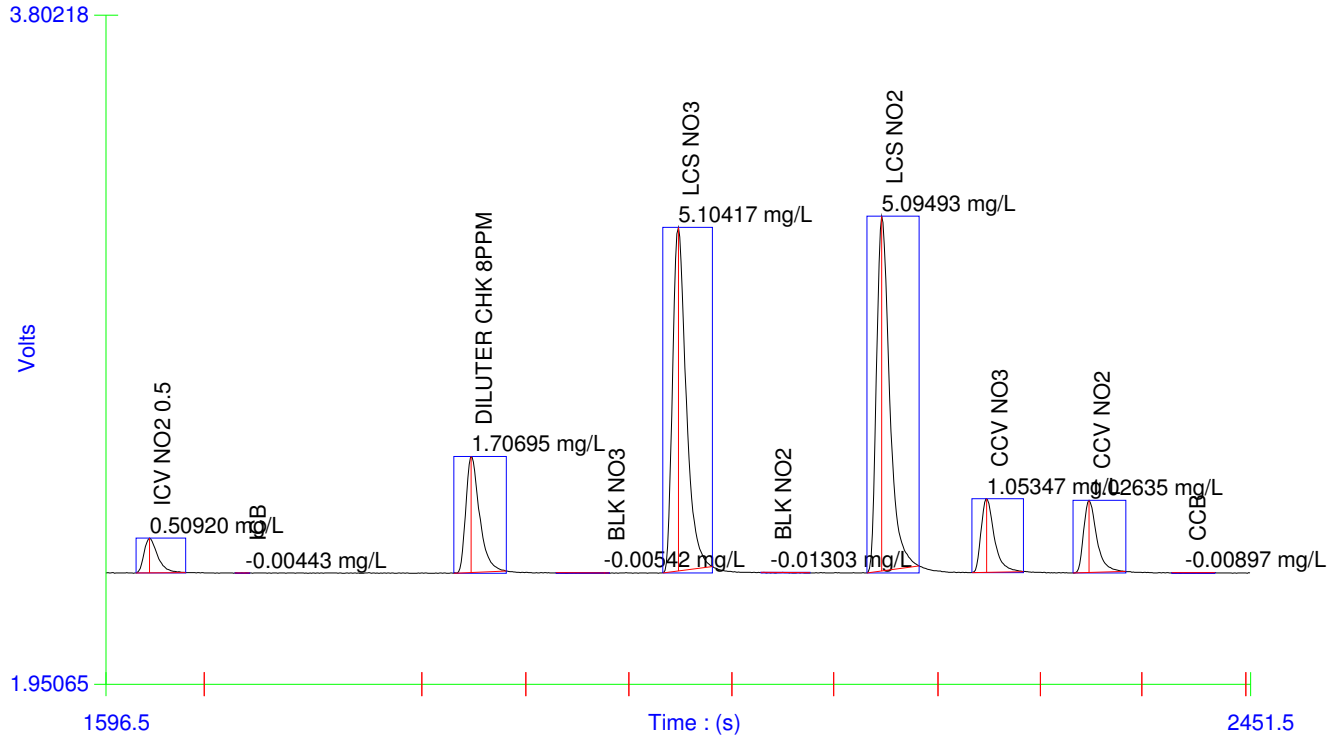
Channel 1 (NO3+NO2) - Set: 1 / 15



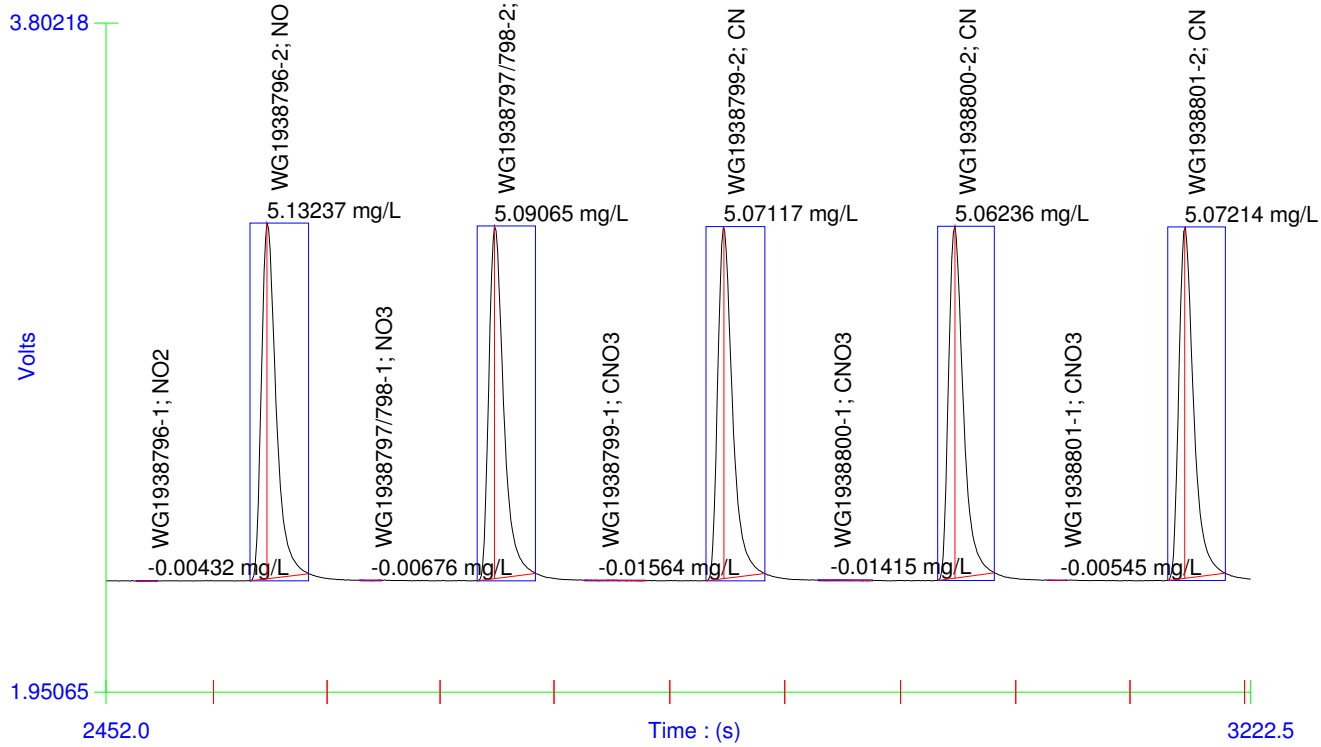
Channel 1 (NO3+NO2) - Set: 2 / 15



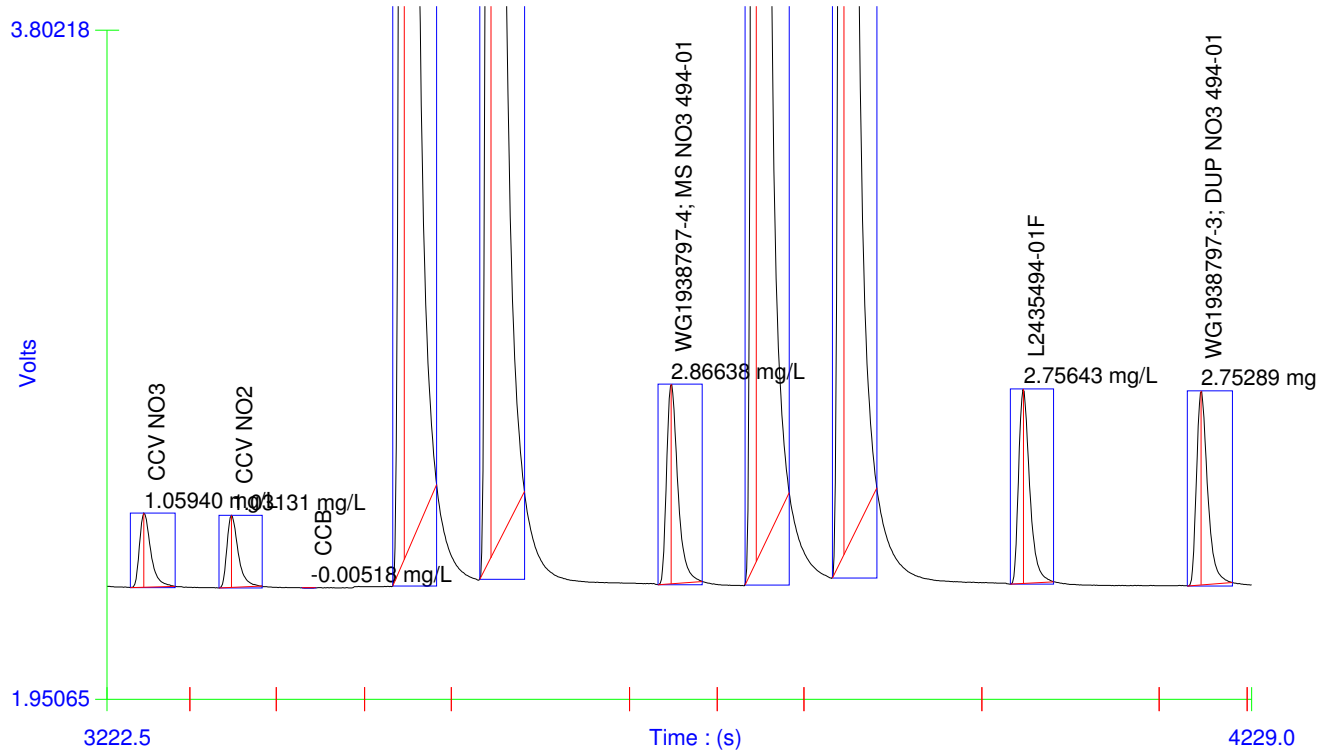
Channel 1 (NO3+NO2) - Set: 3 / 15



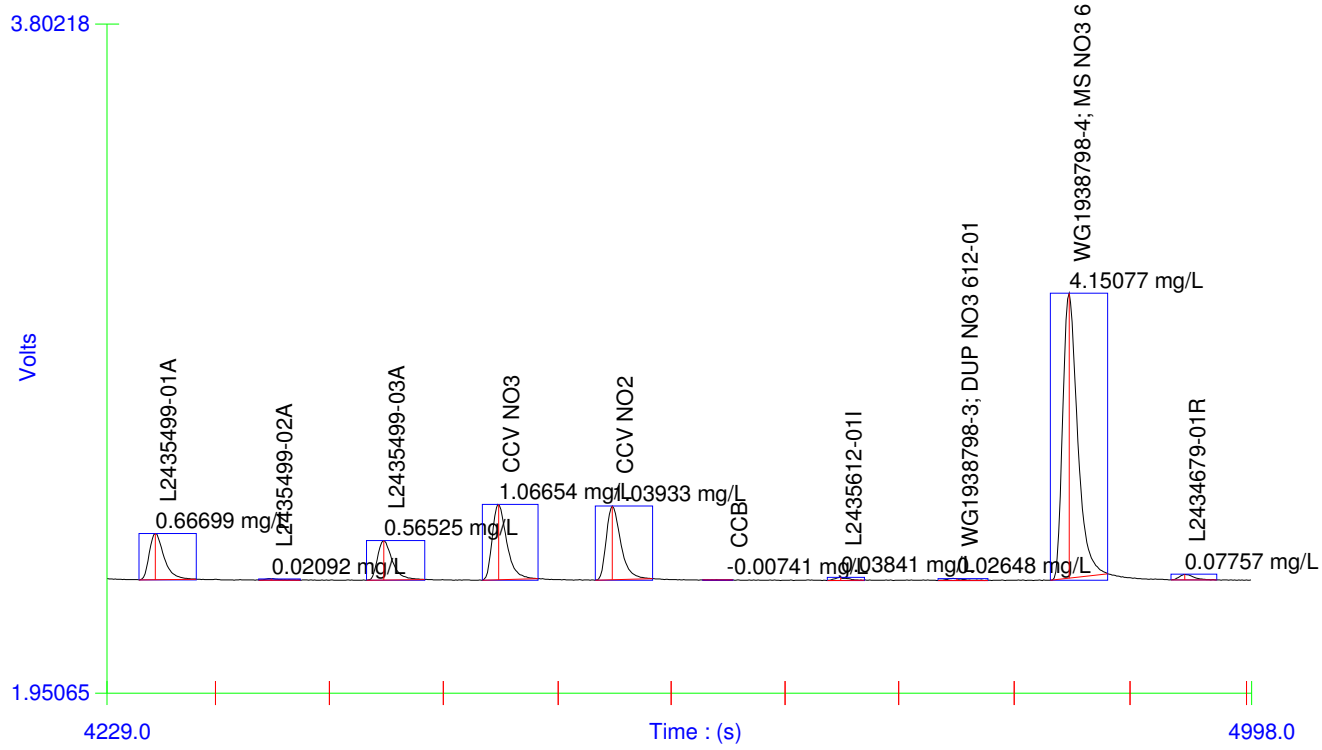
Channel 1 (NO3+NO2) - Set: 4 / 15



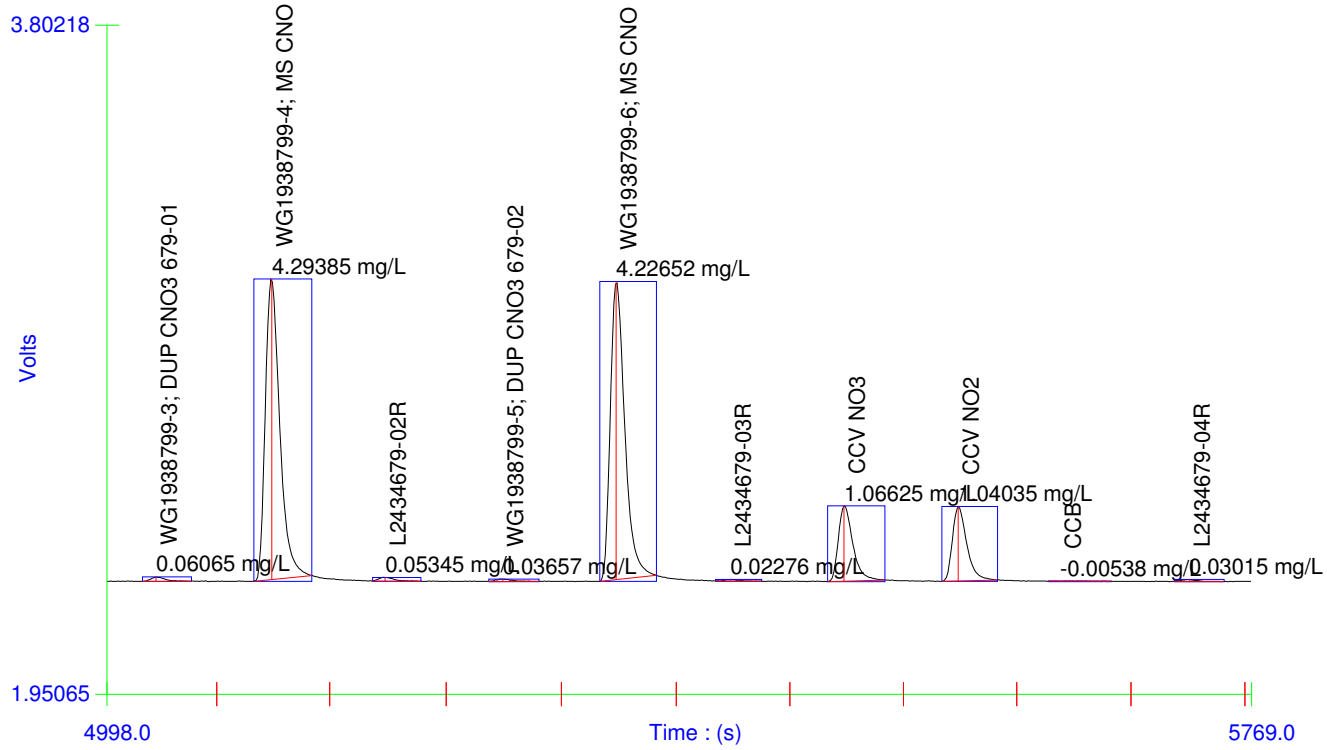
Channel 1 (NO3+NO2) - Set: 5 / 15



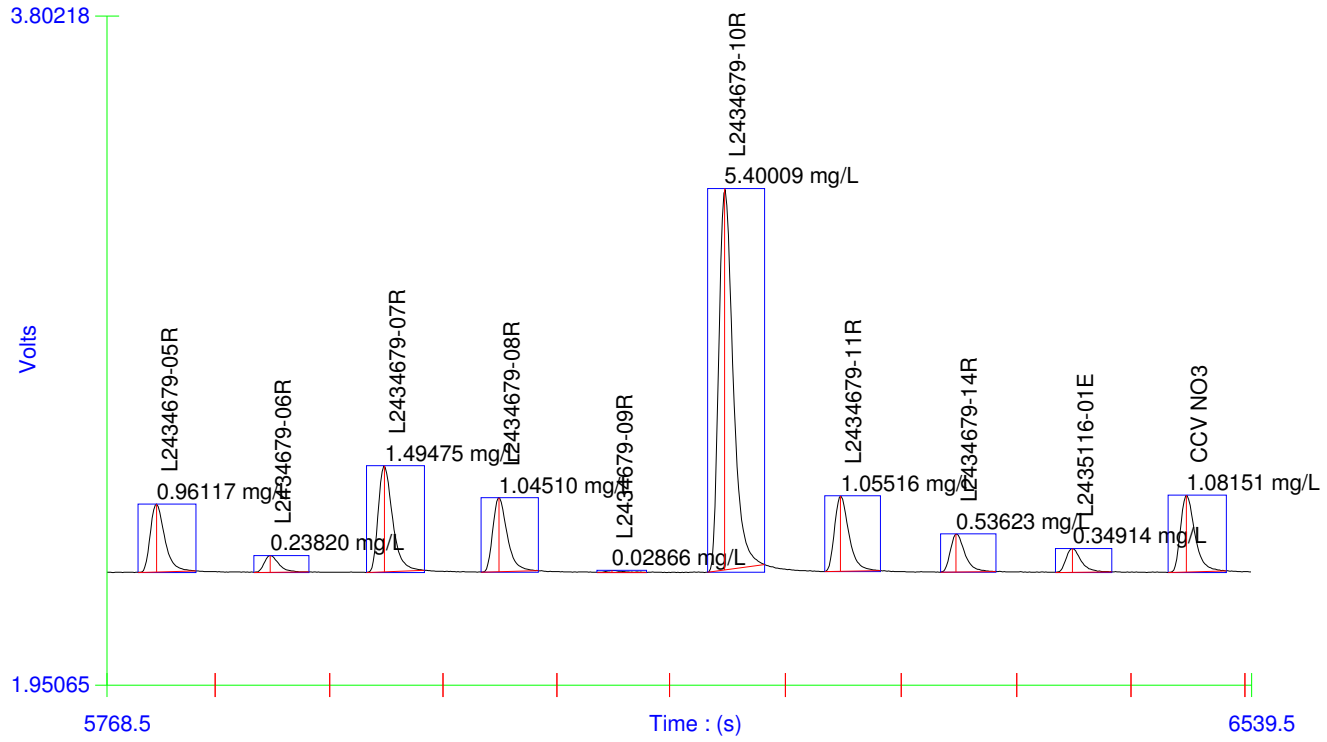
Channel 1 (NO3+NO2) - Set: 6 / 15



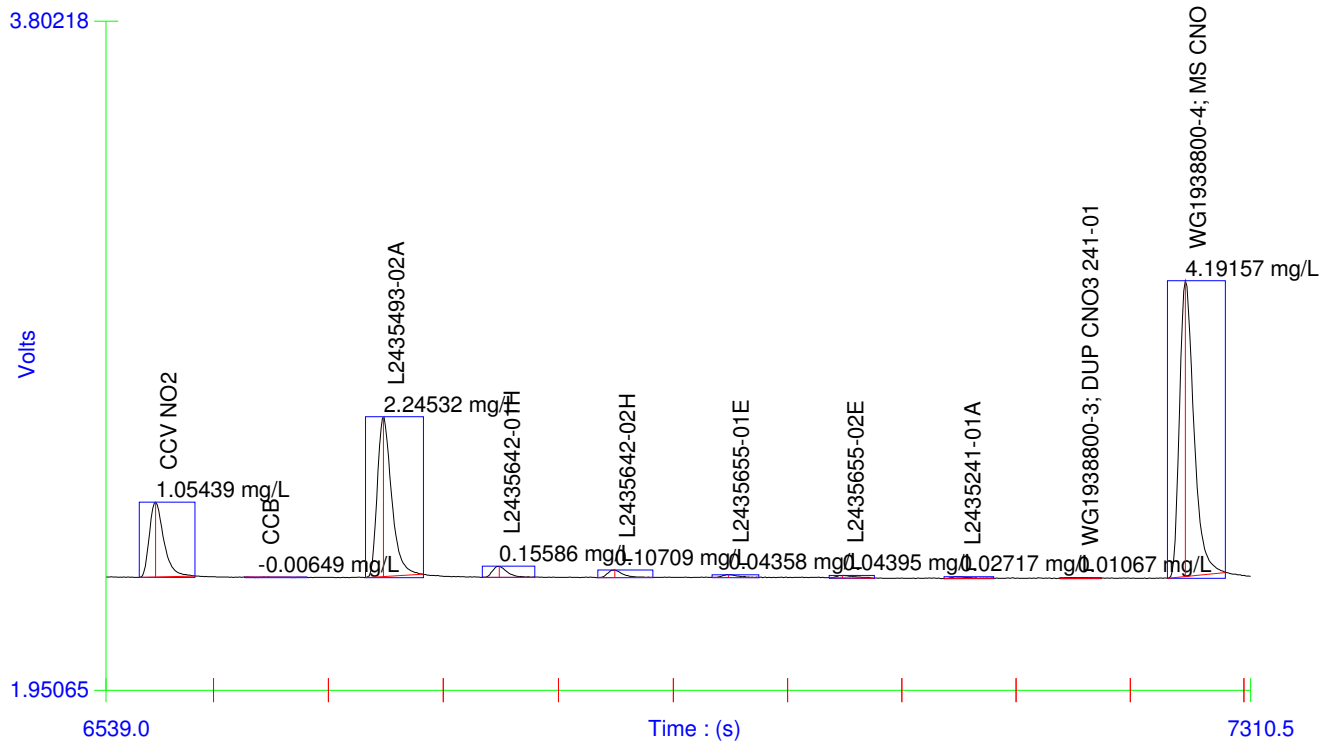
Channel 1 (NO3+NO2) - Set: 7 / 15



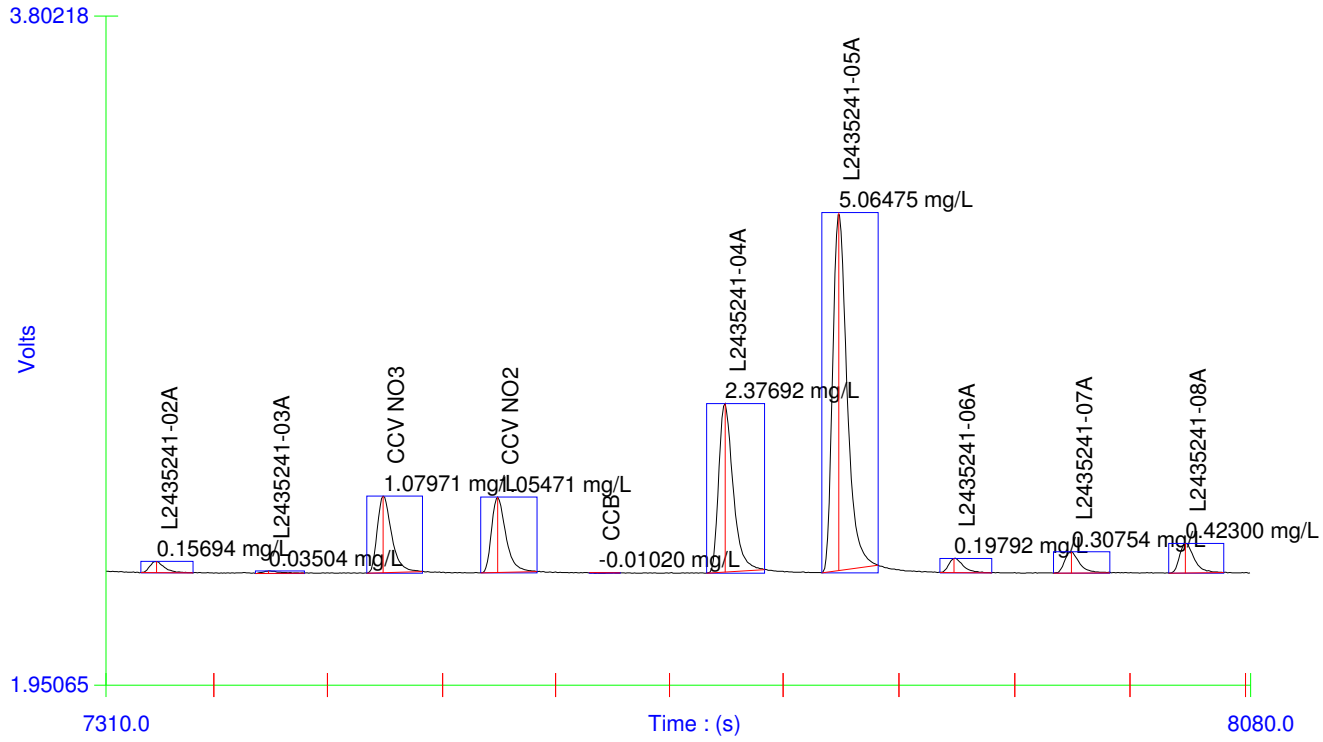
Channel 1 (NO3+NO2) - Set: 8 / 15



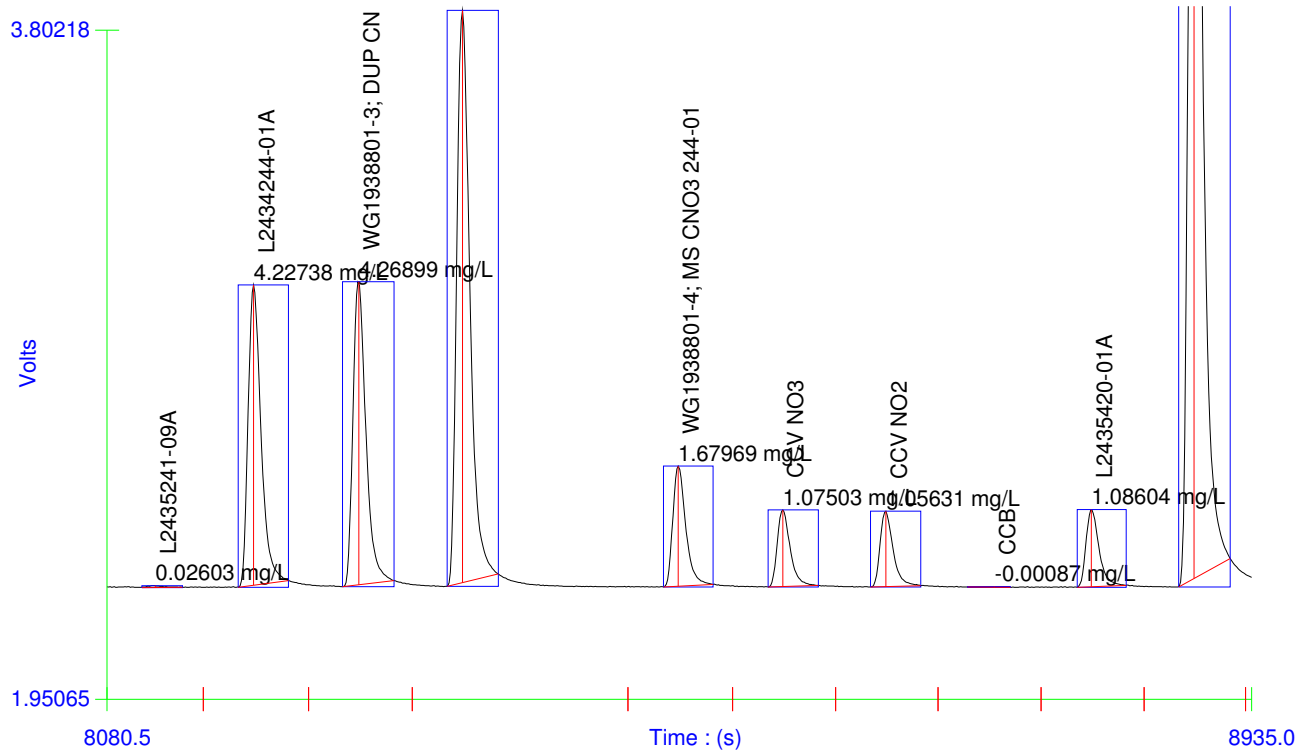
Channel 1 (NO3+NO2) - Set: 9 / 15



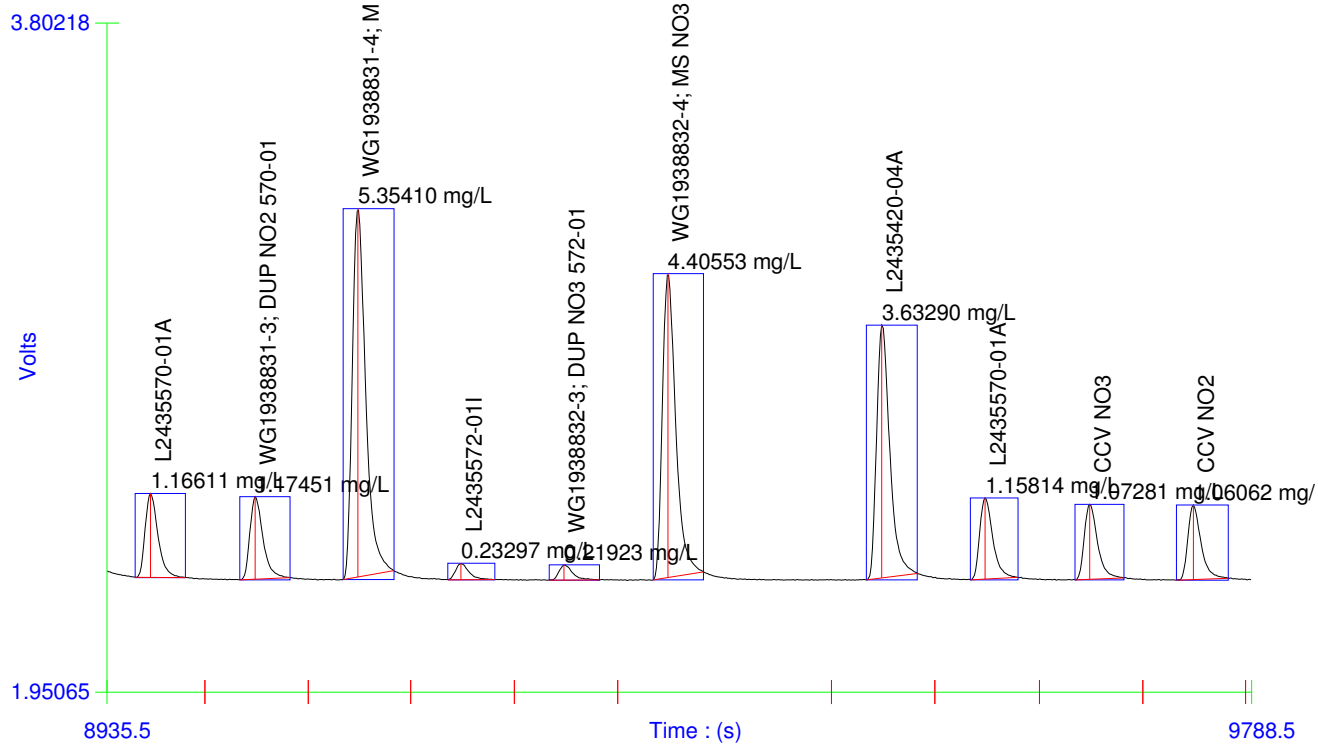
Channel 1 (NO3+NO2) - Set: 10 / 15



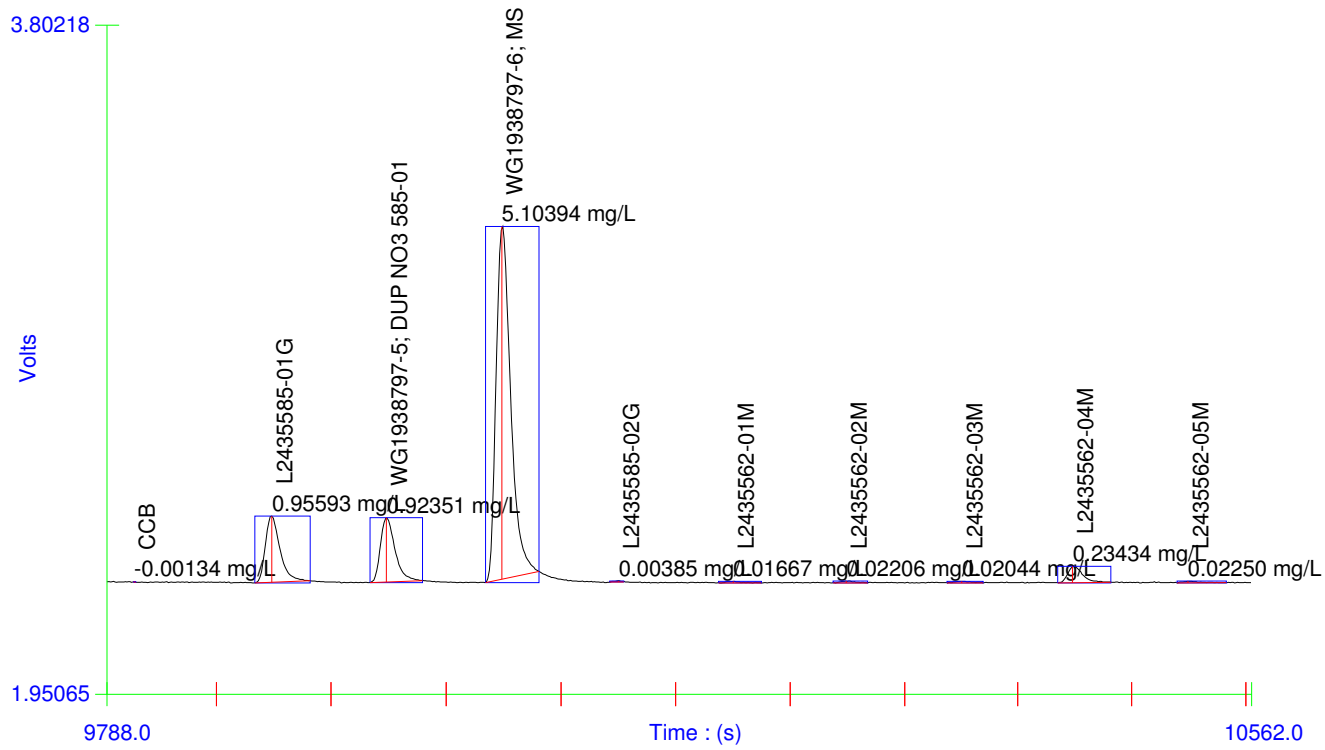
Channel 1 (NO3+NO2) - Set: 11 / 15



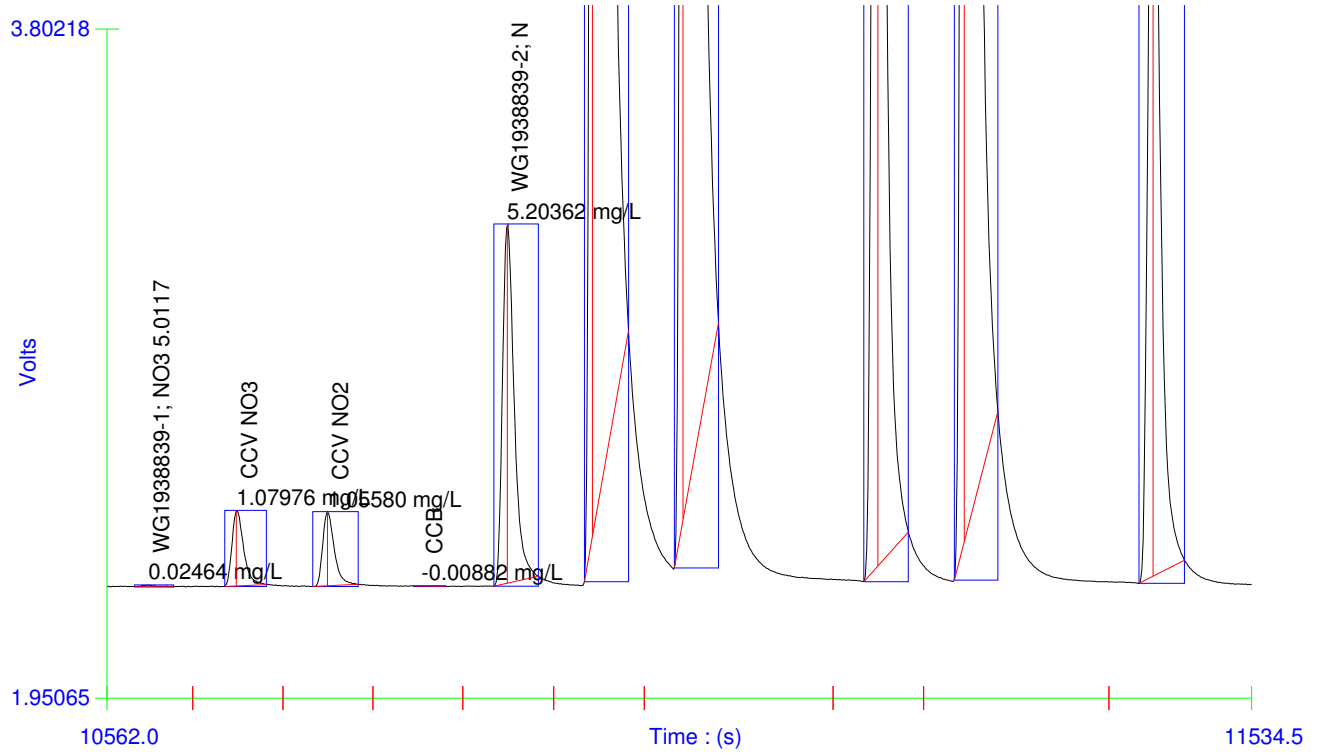
Channel 1 (NO3+NO2) - Set: 12 / 15



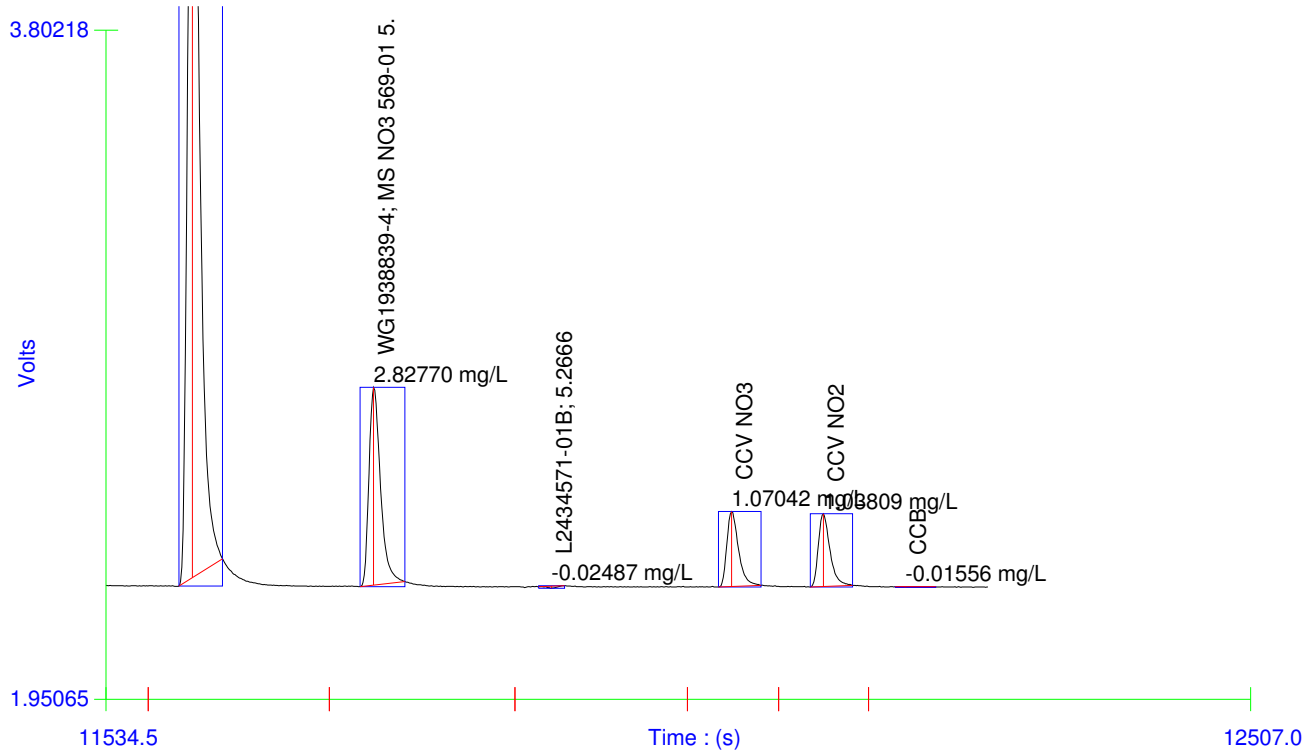
Channel 1 (NO3+NO2) - Set: 13 / 15



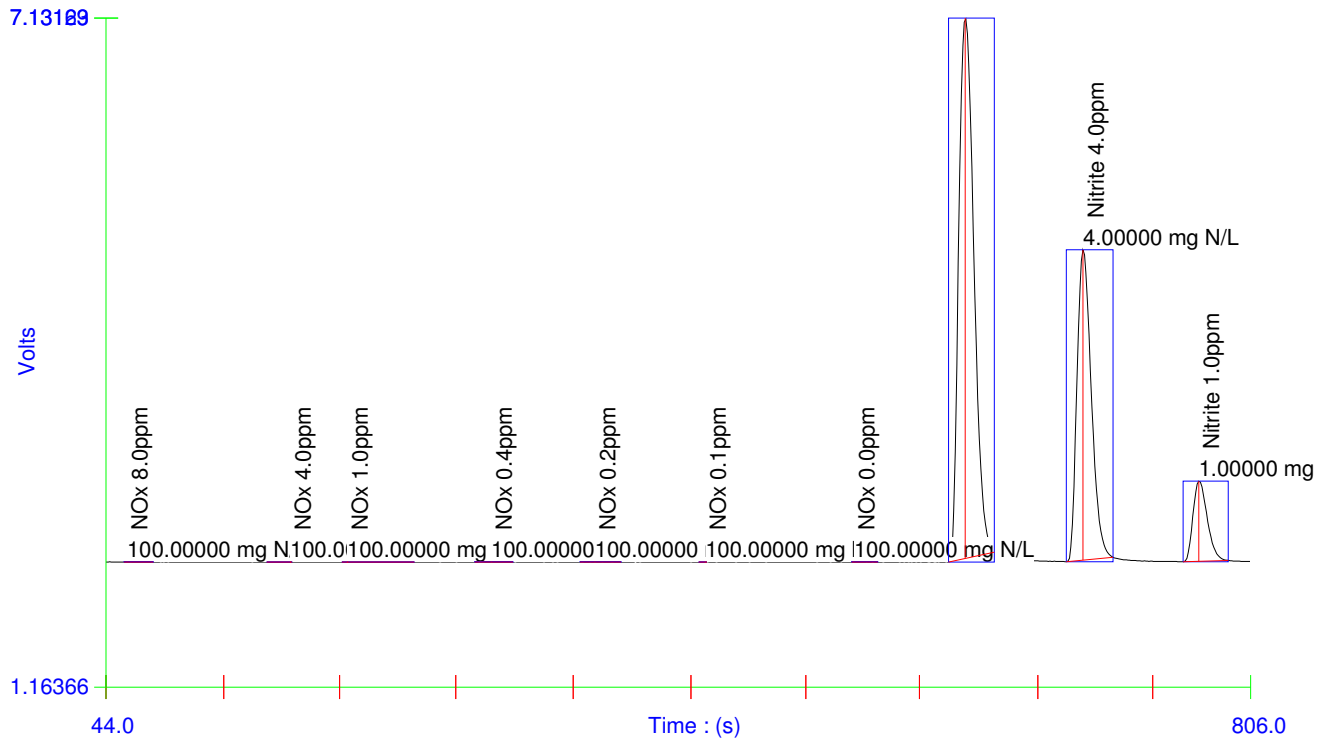
Channel 1 (NO3+NO2) - Set: 14 / 15



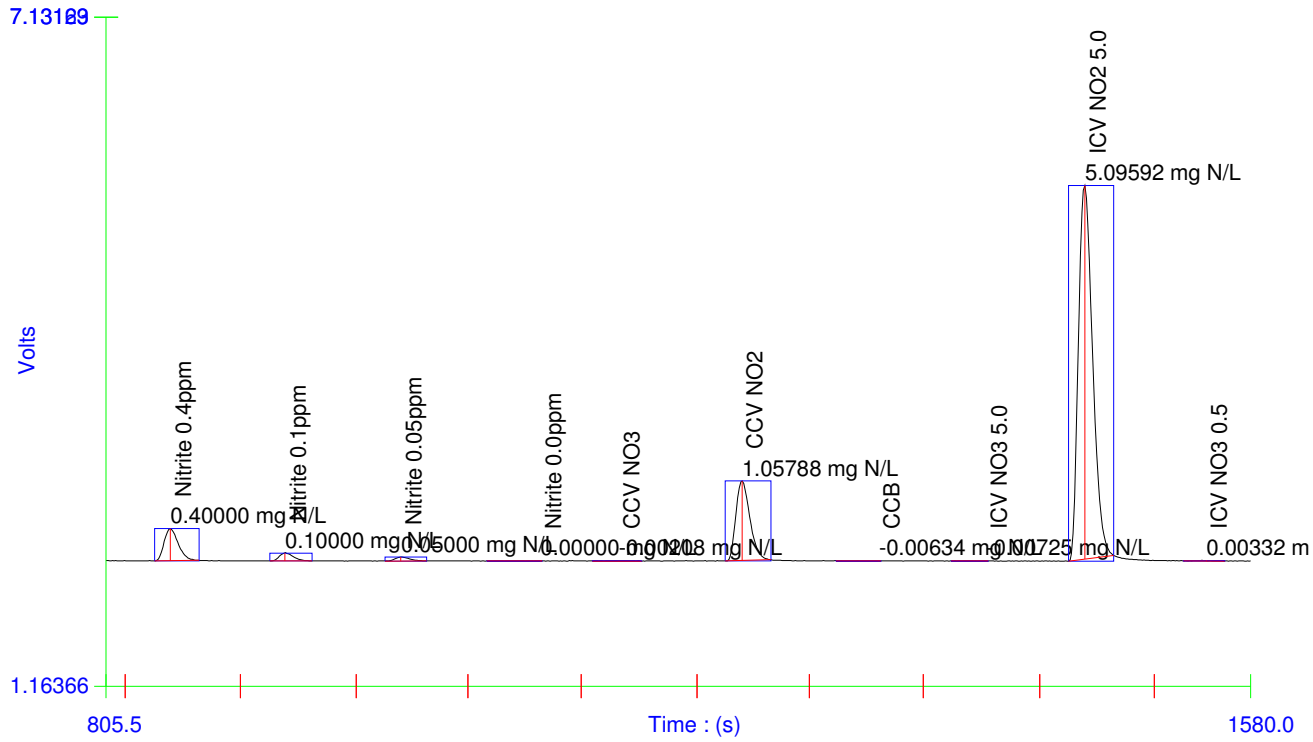
Channel 1 (NO3+NO2) - Set: 15 / 15



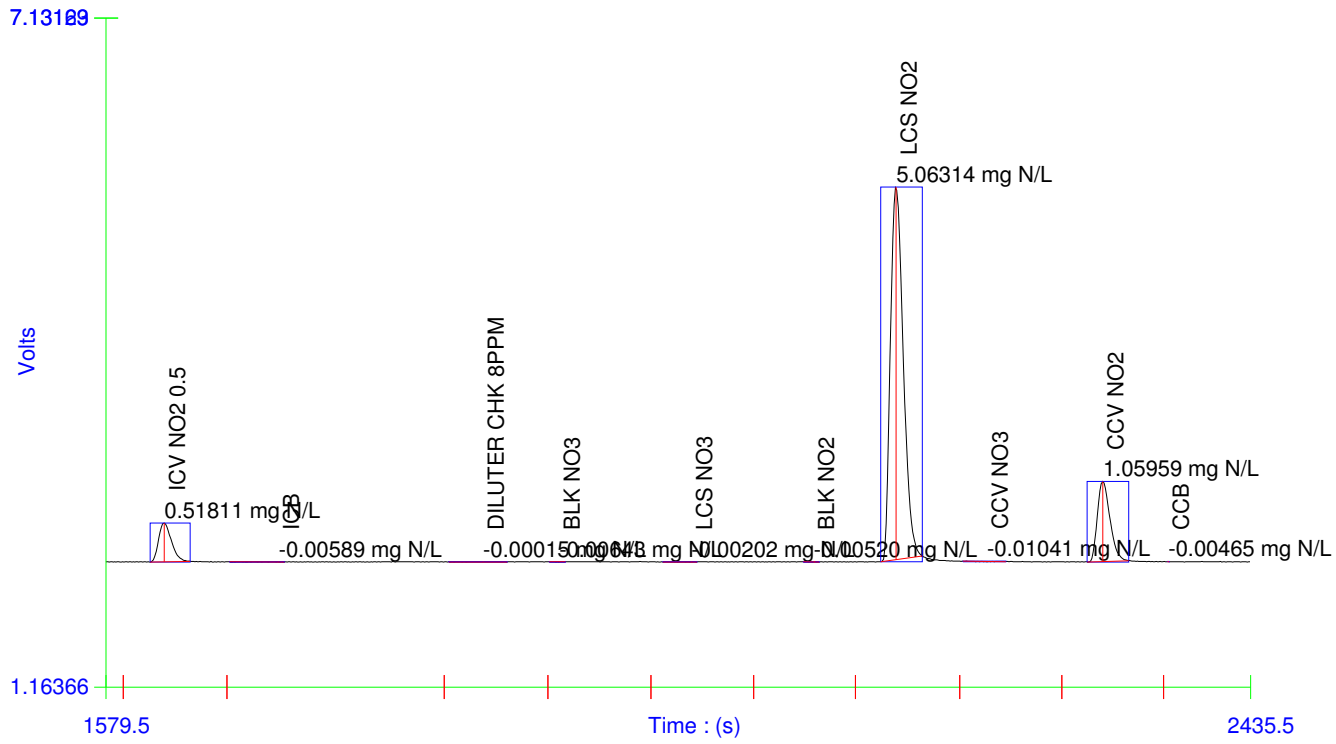
Channel 2 (NO2) - Set: 1 / 15



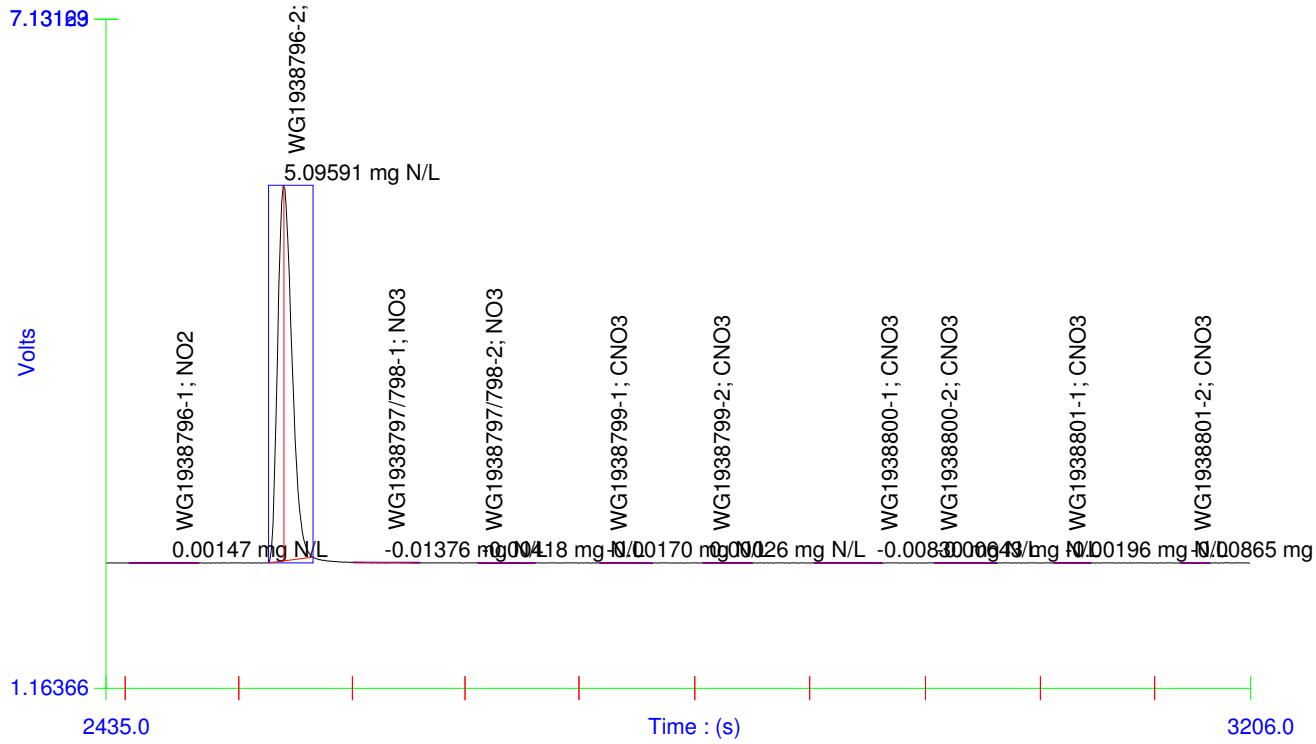
Channel 2 (NO2) - Set: 2 / 15



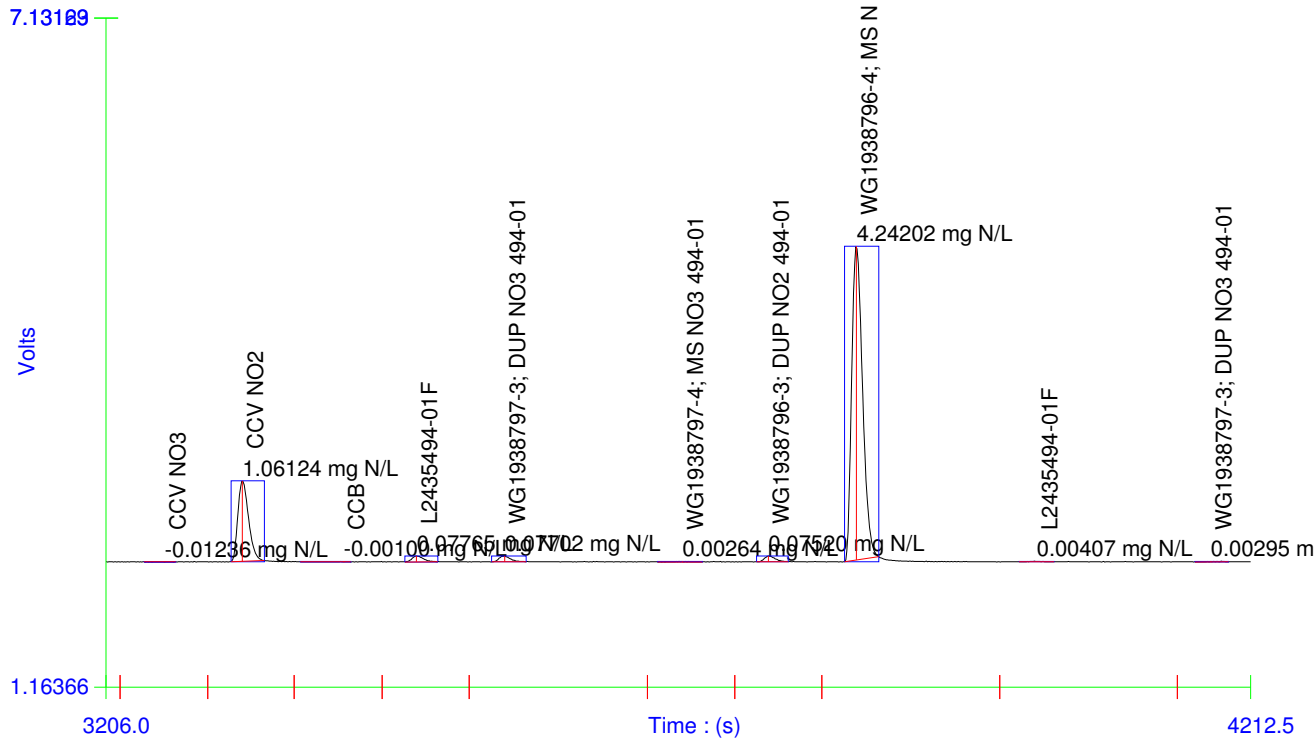
Channel 2 (NO2) - Set: 3 / 15



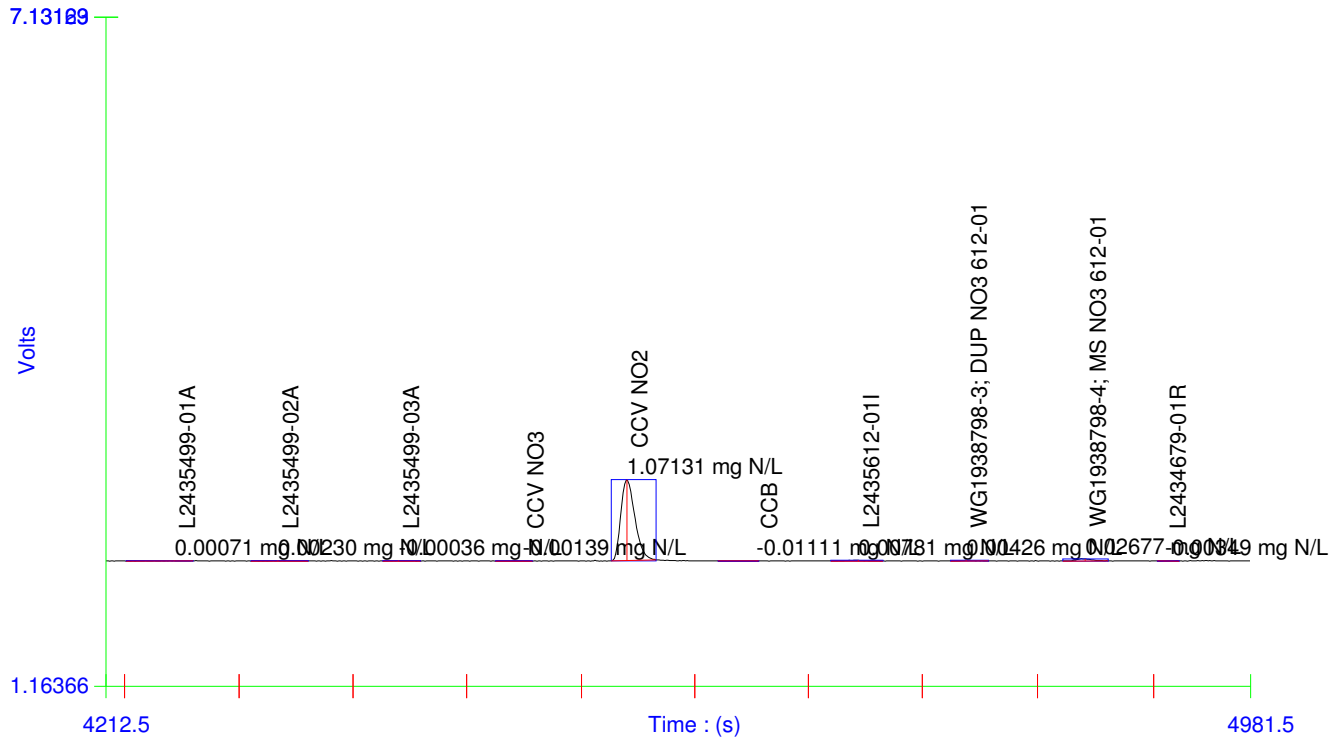
Channel 2 (NO2) - Set: 4 / 15



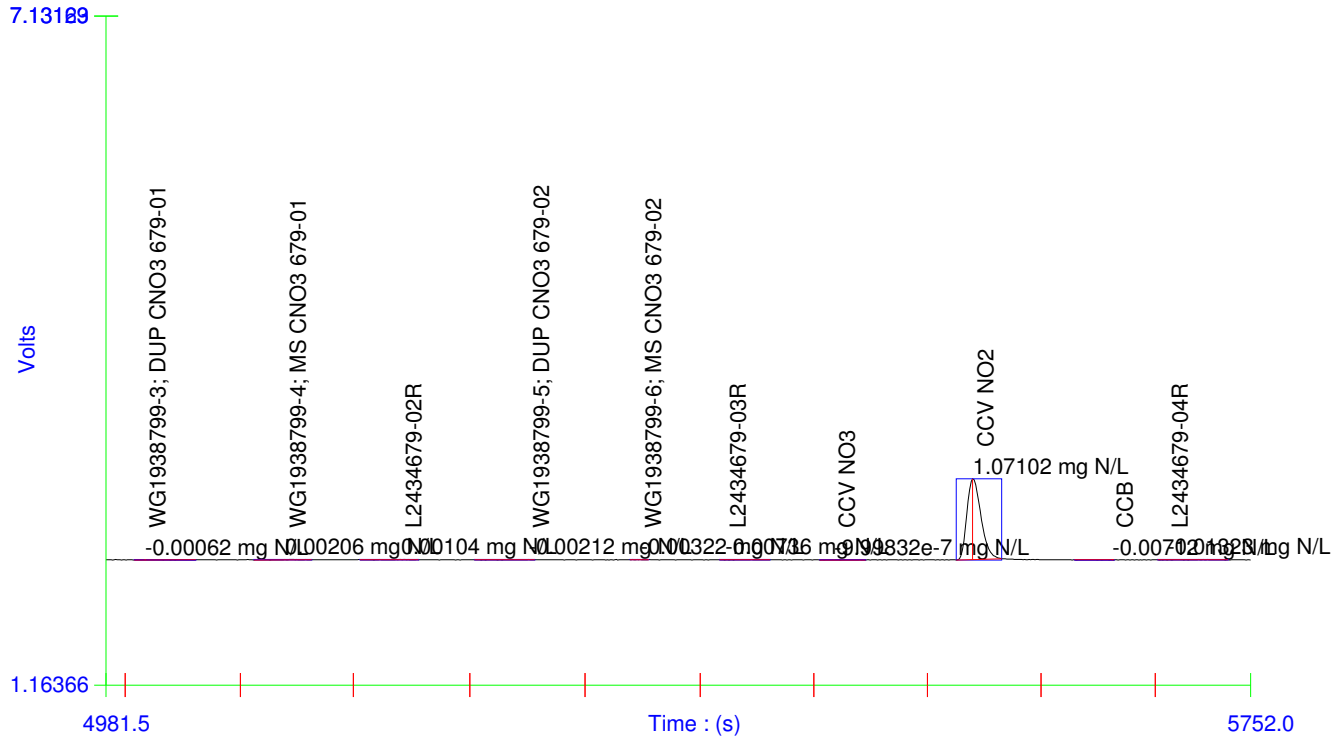
Channel 2 (NO2) - Set: 5 / 15



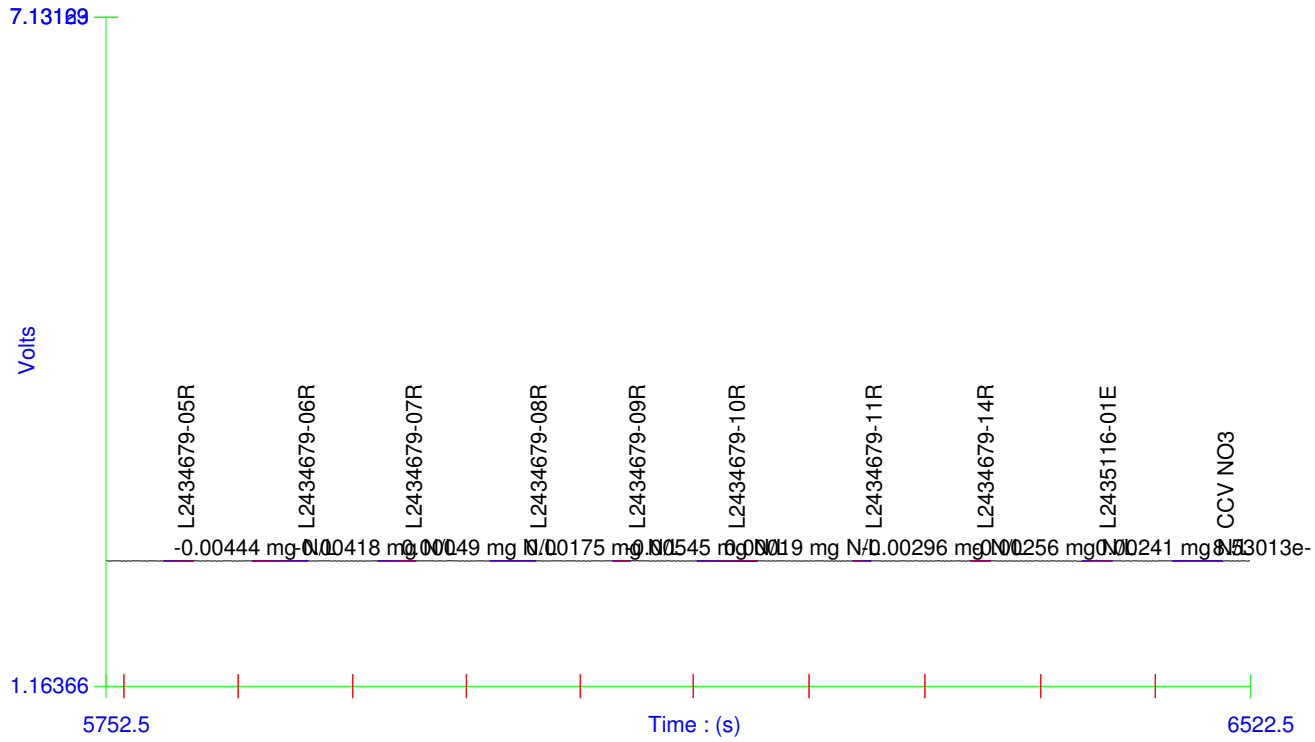
Channel 2 (NO2) - Set: 6 / 15



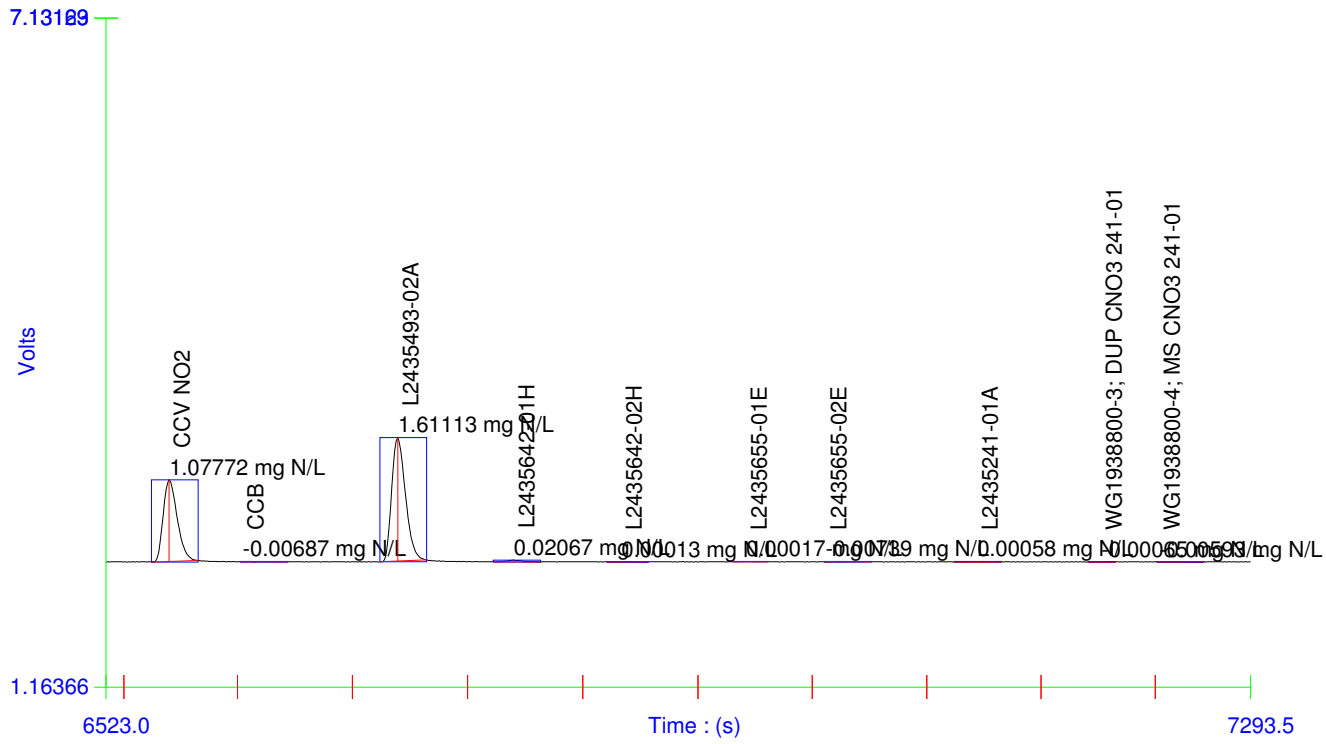
Channel 2 (NO2) - Set: 7 / 15



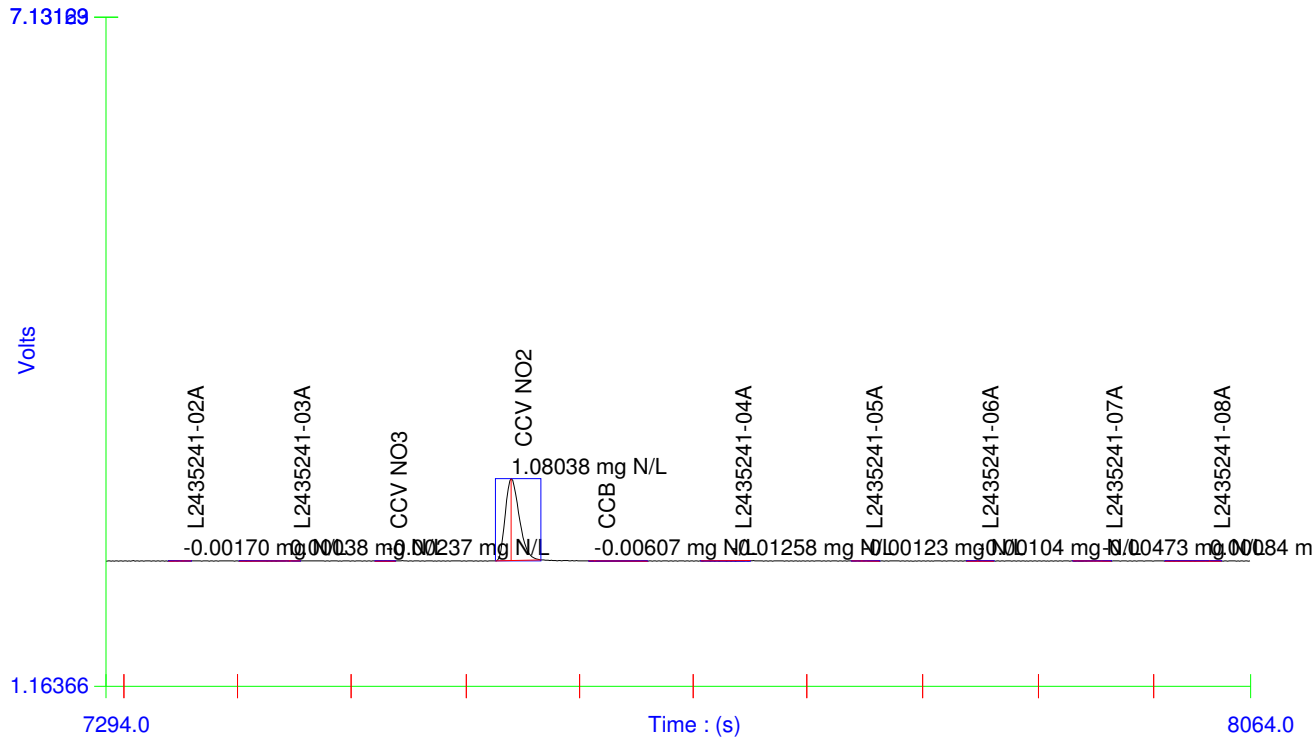
Channel 2 (NO2) - Set: 8 / 15



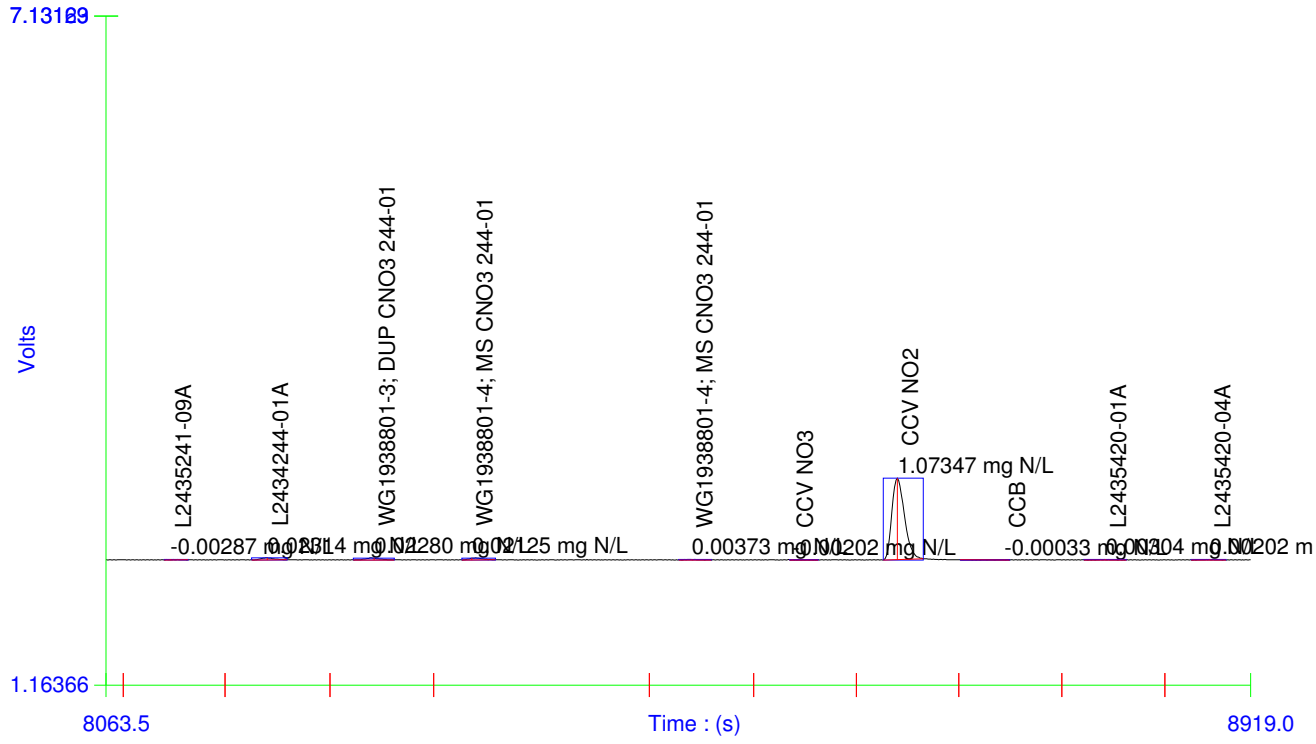
Channel 2 (NO2) - Set: 9 / 15



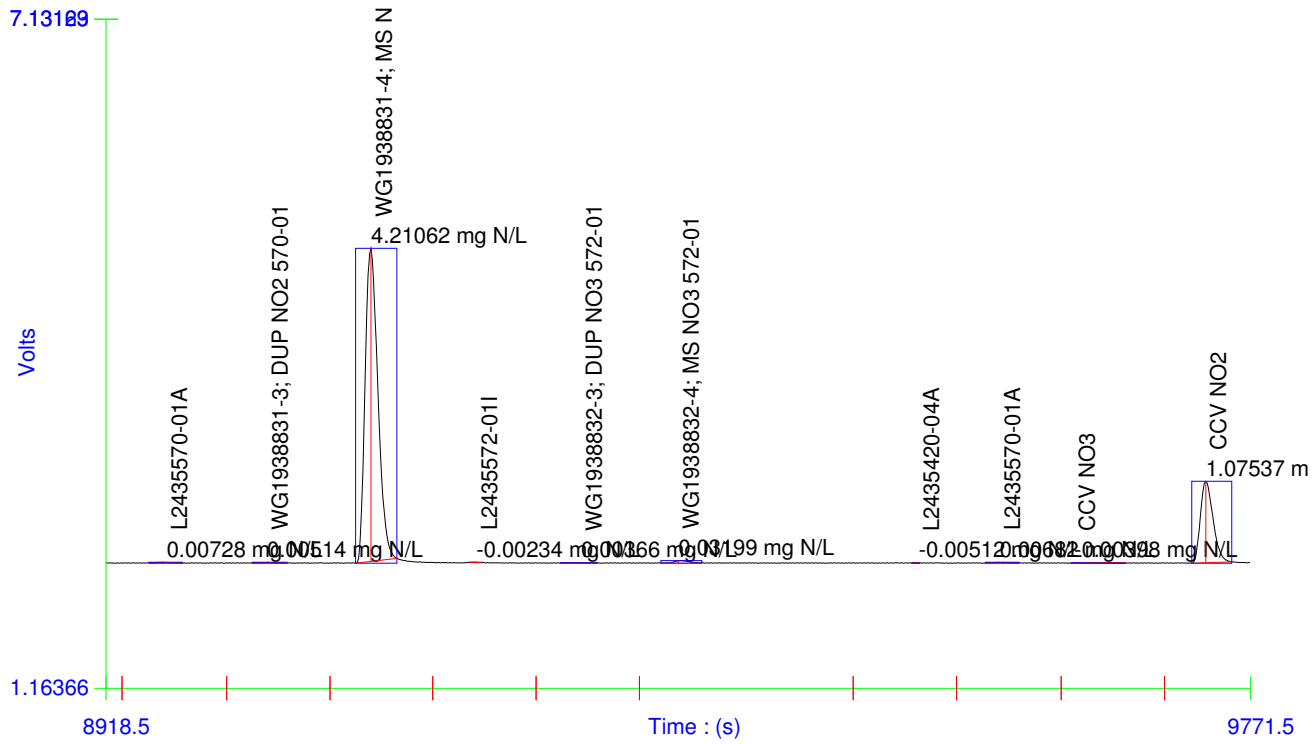
Channel 2 (NO2) - Set: 10 / 15



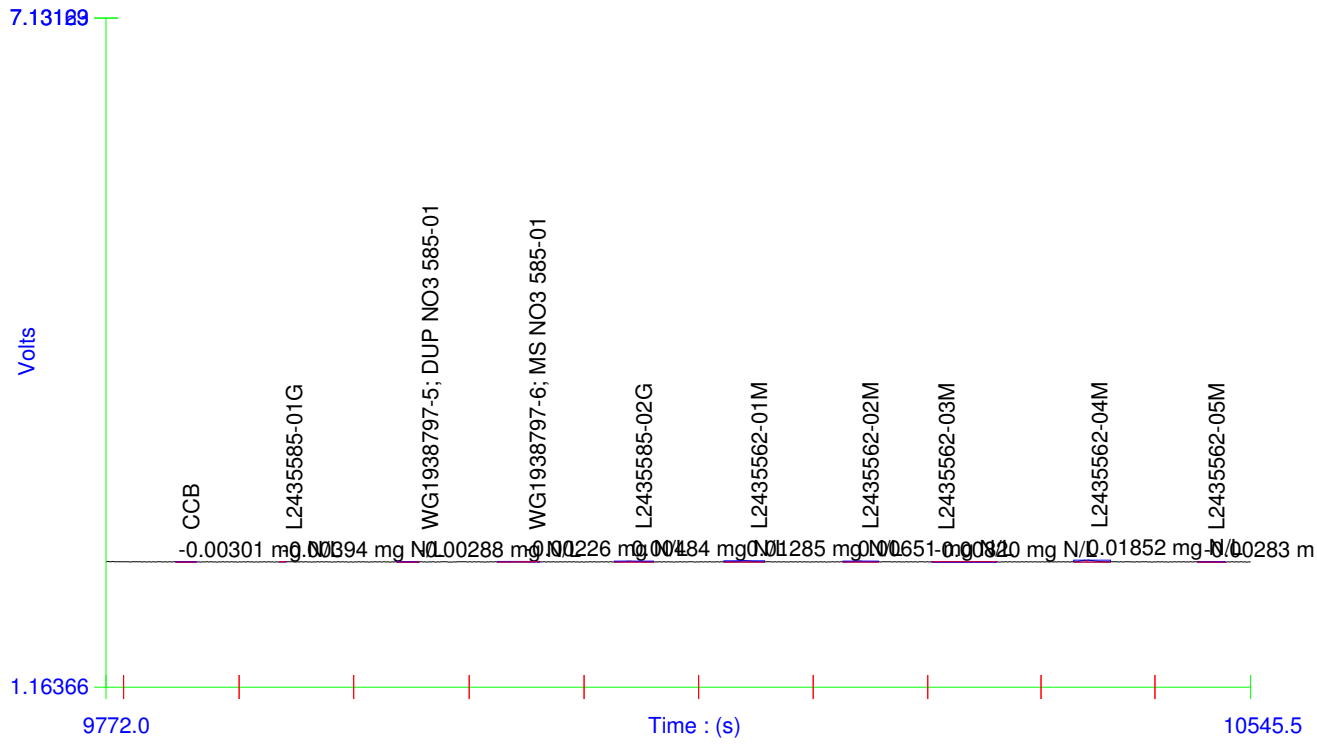
Channel 2 (NO2) - Set: 11 / 15



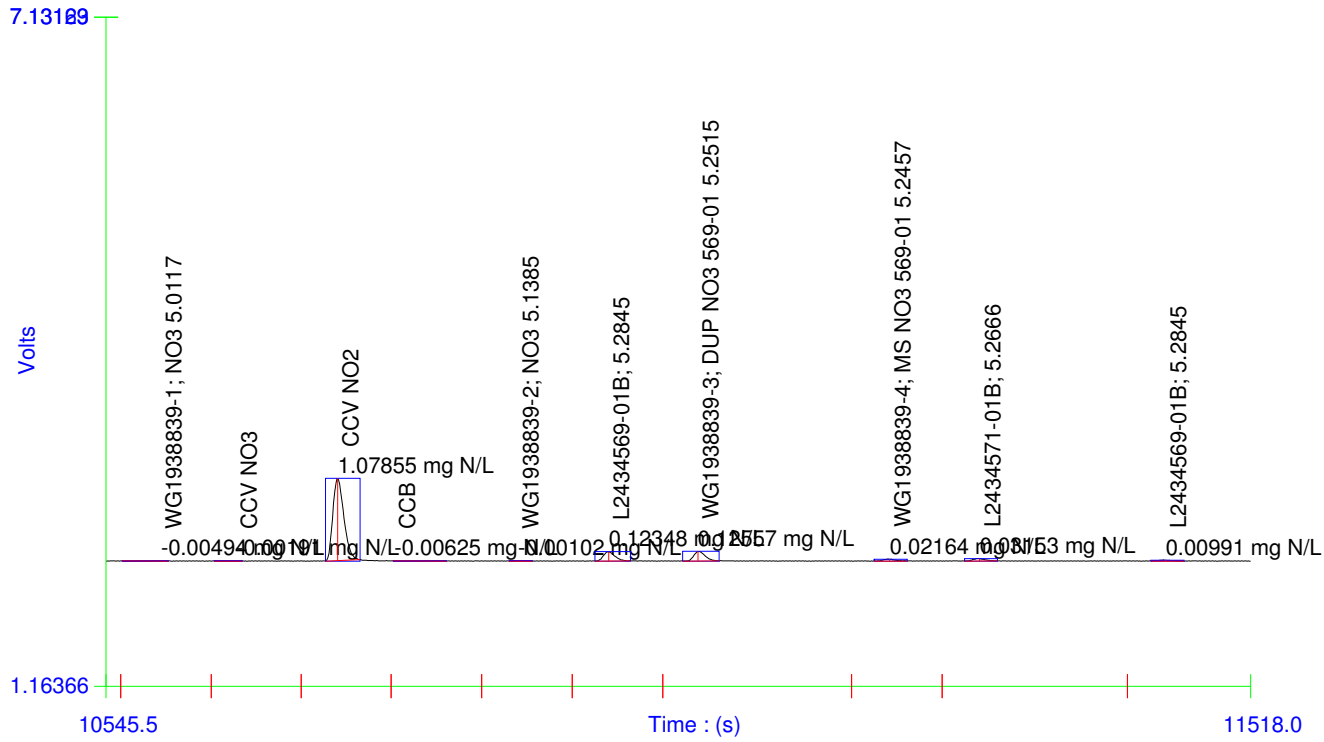
Channel 2 (NO2) - Set: 12 / 15



Channel 2 (NO2) - Set: 13 / 15



Channel 2 (NO2) - Set: 14 / 15



Channel 2 (NO2) - Set: 15 / 15

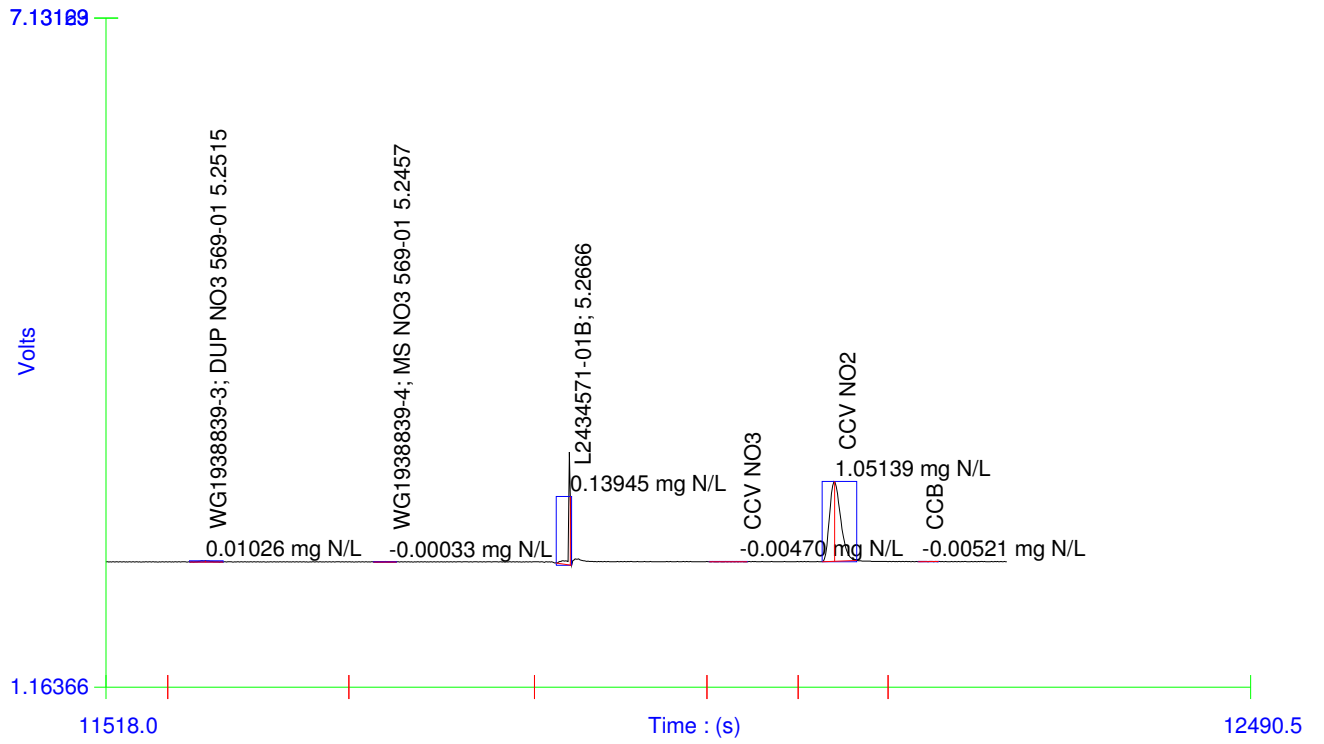


Table : 1 (NO3+NO2)

	Known Conc. (mg/L)	Rep.	Peak Area (V.s)	Peak Height (V)	% RSD	% Residual	Det. Conc (mg/L)	Detection Date	Detection Time
1	8.00000	1	17.40463	1.52626	0.0	0.7	7.94038	6/25/2024	2:23:39 AM
2	4.00000	1	8.84227	0.78991	0.0	-0.8	4.03332	6/25/2024	2:24:57 AM
3	1.00000	1	2.25686	0.20069	0.0	-2.8	1.02835	6/25/2024	2:26:14 AM
4	0.40000	1	0.87478	0.07777	0.0	0.6	0.39770	6/25/2024	2:27:32 AM
5	0.20000	1	0.43404	0.03876	0.0	1.7	0.19659	6/25/2024	2:28:50 AM
6	0.10000	1	0.22668	0.01916	0.0	-1.9	0.10197	6/25/2024	2:30:09 AM
7	0.00000	1	-0.00249	-0.00055			-0.00261	6/25/2024	2:31:25 AM

Figure : 1 (NO3+NO2)

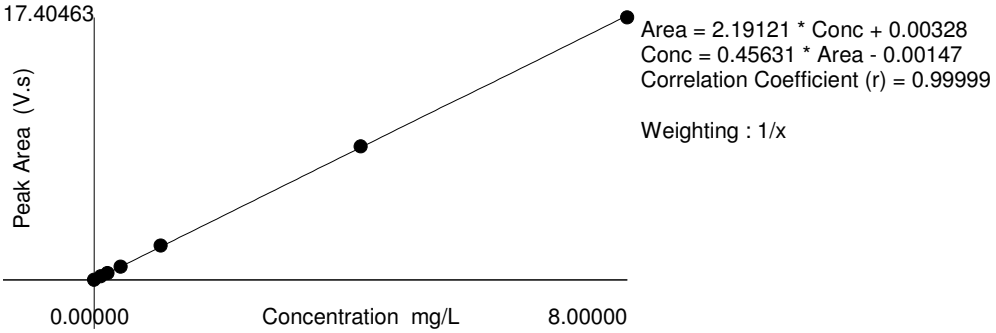
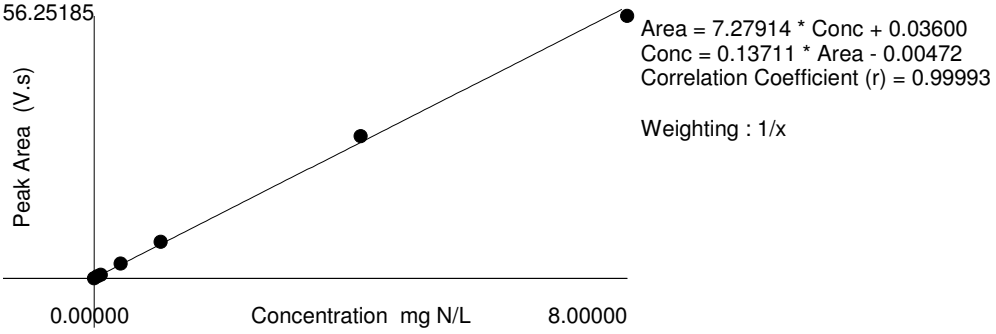


Table : 2 (Nitrite)

	Known Conc. (mg N/L)	Rep.	Peak Area (V.s)	Peak Height (V)	% RSD	% Residual	Det. Conc (mg N/L)	Detection Date	Detection Time
1	8.00000	1	56.25185	4.81878	0.0	3.5	7.70803	6/25/2024	2:32:42 AM
2	4.00000	1	30.48805	2.76784	0.0	-4.6	4.17553	6/25/2024	2:34:00 AM
3	1.00000	1	7.80923	0.71485	0.0	-6.8	1.06601	6/25/2024	2:35:17 AM
4	0.40000	1	3.13726	0.28765	0.0	-6.4	0.42543	6/25/2024	2:36:35 AM
5	0.10000	1	0.77679	0.07027	0.0	-1.7	0.10179	6/25/2024	2:37:53 AM
6	0.05000	1	0.38511	0.03481	0.0	3.7	0.04808	6/25/2024	2:39:12 AM
7	0.00000	1	-0.00809	0.00138			-0.00583	6/25/2024	2:40:27 AM

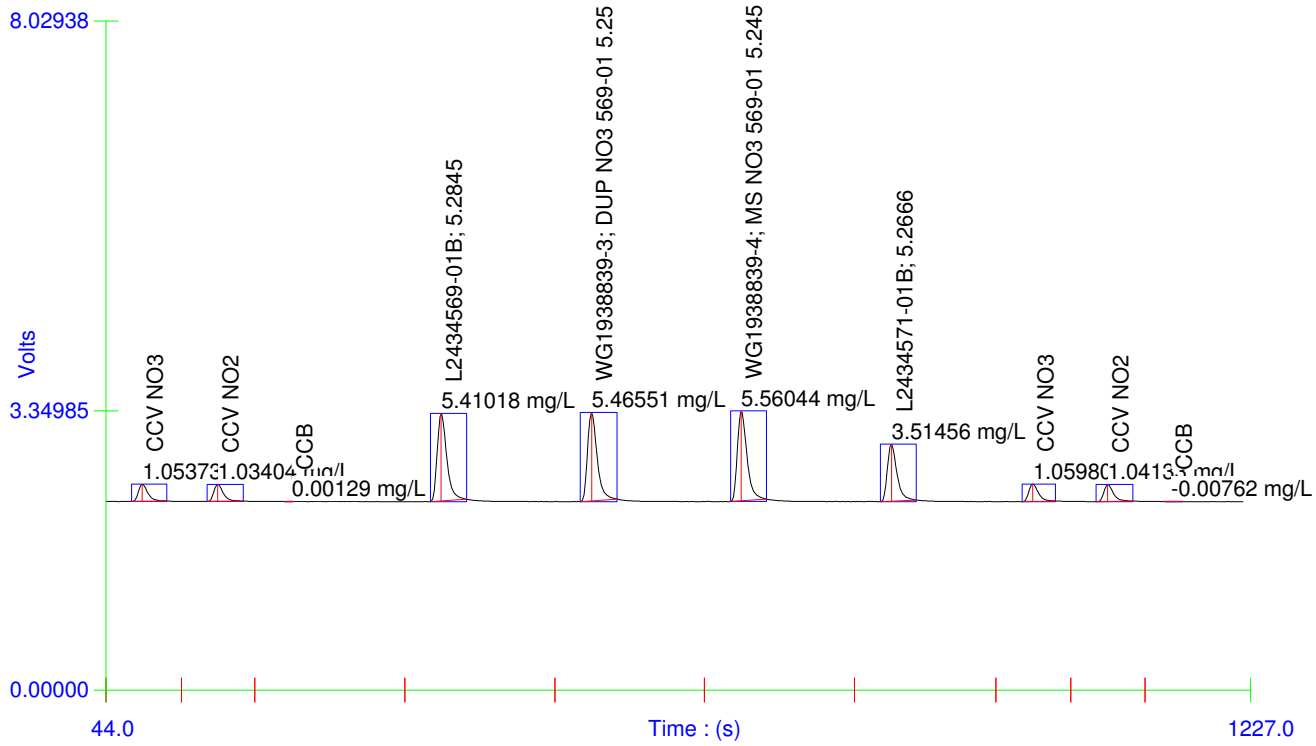
Figure : 2 (Nitrite)



Original Run Filename: OM_6-25-2024_05-57-06AM.OMN Created: 6/25/2024 5:57:06 AM
Original Run Author's Signature: [A1wetcheminstrument]
Current Run Filename: OM_6-25-2024_05-57-06AM.OMN Last Modified: 6/25/2024 6:17:41 AM
Current Run Author's Signature: [A1wetcheminstrument]
Description: Default New Run

Sample	Rep.	Cup No.	Channel 1 NO3+NO2 (mg/L)	Channel 2 Nitrite (mg N/L)	ADF	MDF	Weight
CCV NO3	1	S2	1.05373	-0.00512			
	Known Conc:		1.00000	0.00000			
	Calibration:		Table/Fig. : 1	Table/Fig. : 2			
CCV NO2	1	S9	1.03404	1.06522			
	Known Conc:		0.00000	1.00000			
CCB	1	S1	0.00129	-0.00662			
	Known Conc:		0.00000	0.00000			
L2434569-01B; 5.2845	1	87	1279.72742	0.45281	25.00		0.10569 g
WG1938839-3; DUP NO3 569-01 5.2515	1	88	1300.93958	0.26940	25.00		0.10503 g
WG1938839-4; MS NO3 569-01 5.2457	1	89	1325.04932	0.19148	25.00		0.10491 g
L2434571-01B; 5.2666	1	90	834.17896	-0.09022	25.00		0.10533 g
CCV NO3	1	S2	1.05980	-0.00228			
	Known Conc:		1.00000	0.00000			
CCV NO2	1	S9	1.04133	1.05524			
	Known Conc:		0.00000	1.00000			
CCB	1	S1	-0.00762	-0.00813			
	Known Conc:		0.00000	0.00000			

Channel 1 (NO3+NO2) - Set: 1 / 1



Author: KAF TRAY 1B Date : 240625-2

Channel 2 (NO2) - Set: 1 / 1

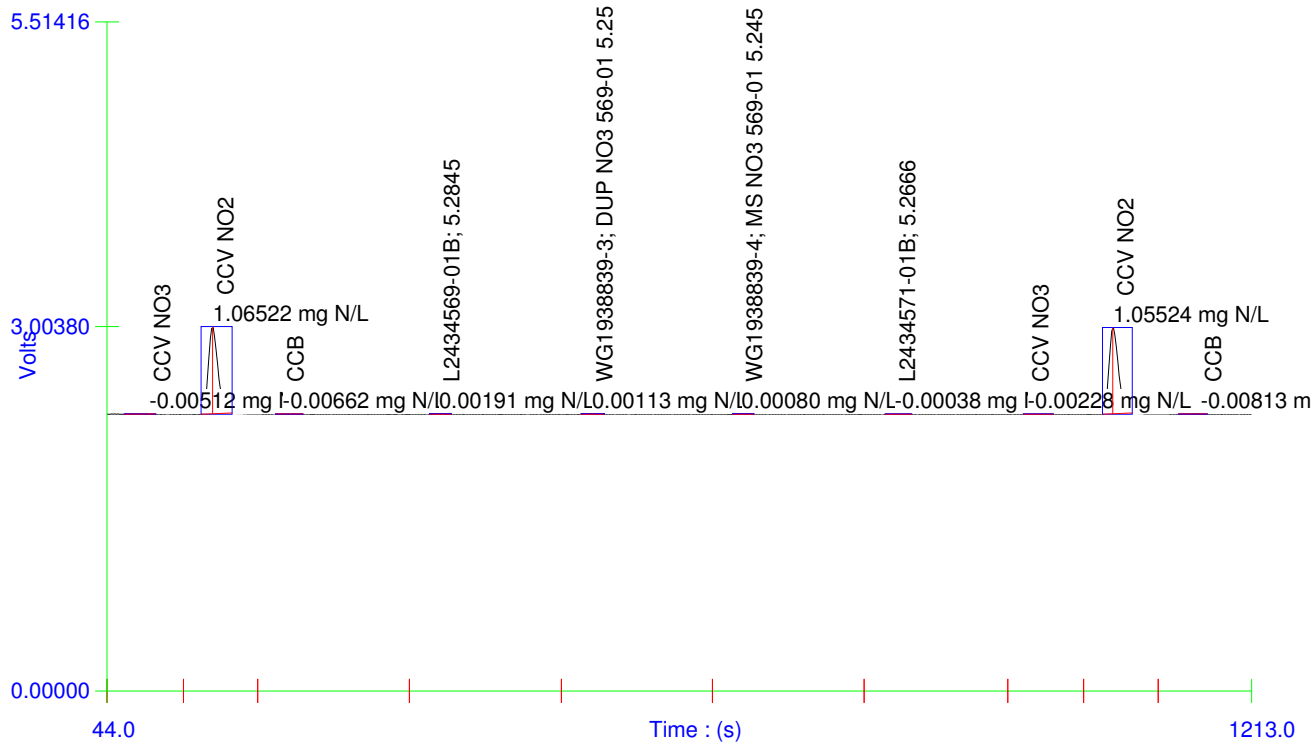


Table : 1 (NO3+NO2)

	Known Conc. (mg/L)	Rep.	Peak Area (V.s)	Peak Height (V)	% RSD	% Residual	Det. Conc (mg/L)	Detection Date	Detection Time
1	8.00000	1	17.40463	1.52626	0.0	0.7	7.94038	6/25/2024	2:23:39 AM
2	4.00000	1	8.84227	0.78991	0.0	-0.8	4.03332	6/25/2024	2:24:57 AM
3	1.00000	1	2.25686	0.20069	0.0	-2.8	1.02835	6/25/2024	2:26:14 AM
4	0.40000	1	0.87478	0.07777	0.0	0.6	0.39770	6/25/2024	2:27:32 AM
5	0.20000	1	0.43404	0.03876	0.0	1.7	0.19659	6/25/2024	2:28:50 AM
6	0.10000	1	0.22668	0.01916	0.0	-1.9	0.10197	6/25/2024	2:30:09 AM
7	0.00000	1	-0.00249	-0.00055			-0.00261	6/25/2024	2:31:25 AM

Figure : 1 (NO3+NO2)

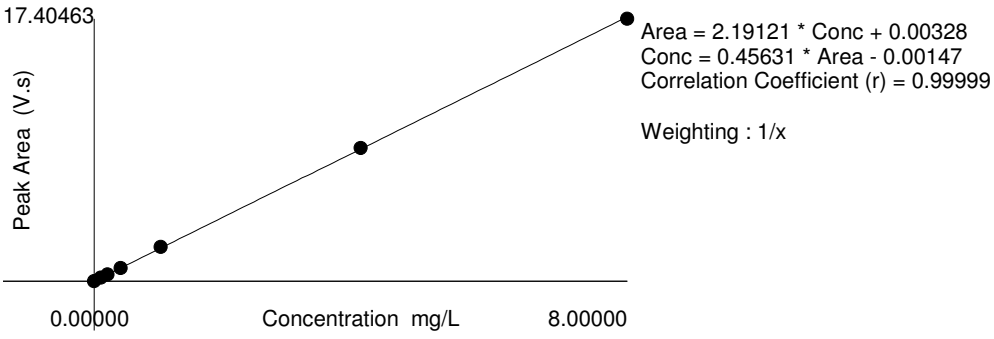
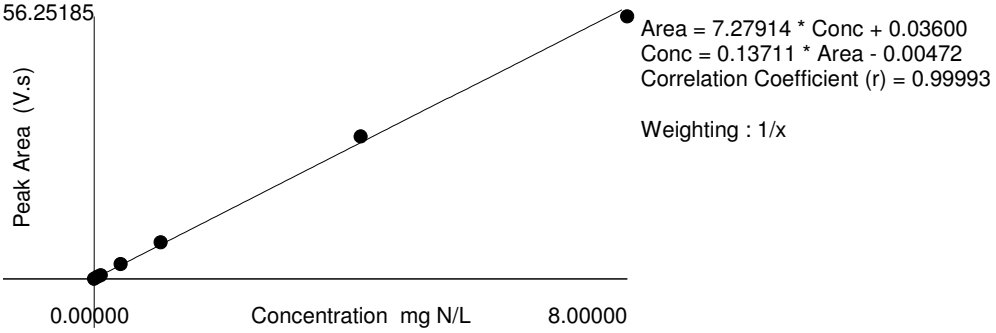


Table : 2 (Nitrite)

	Known Conc. (mg N/L)	Rep.	Peak Area (V.s)	Peak Height (V)	% RSD	% Residual	Det. Conc (mg N/L)	Detection Date	Detection Time
1	8.00000	1	56.25185	4.81878	0.0	3.5	7.70803	6/25/2024	2:32:42 AM
2	4.00000	1	30.48805	2.76784	0.0	-4.6	4.17553	6/25/2024	2:34:00 AM
3	1.00000	1	7.80923	0.71485	0.0	-6.8	1.06601	6/25/2024	2:35:17 AM
4	0.40000	1	3.13726	0.28765	0.0	-6.4	0.42543	6/25/2024	2:36:35 AM
5	0.10000	1	0.77679	0.07027	0.0	-1.7	0.10179	6/25/2024	2:37:53 AM
6	0.05000	1	0.38511	0.03481	0.0	3.7	0.04808	6/25/2024	2:39:12 AM
7	0.00000	1	-0.00809	0.00138			-0.00583	6/25/2024	2:40:27 AM

Figure : 2 (Nitrite)



Quality Control

Form 5a
Matrix Spike

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Client Sample ID	: MW-3A	**Matrix**	: WATER
Lab Sample ID	: L2434679-01		
Matrix Spike	: WG1938799-4	**MS Analysis Date**	: 06/25/24 03:47
Matrix Spike Dup	:	**MSD Analysis Date**	:

		Matrix Spike Sample			Matrix Spike Duplicate					
Parameter	Sample Conc. (mg/l)	Spike Added (mg/l)	Spike Conc. (mg/l)	%R	Spike Added (mg/l)	Spike Conc. (mg/l)	%R	RPD	Recovery Limits	RPD Limit
Nitrogen, Nitrate/Nitrite	0.078J	4	4.3	108					80-120	20

Form 6
Lab Duplicates

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Client Sample ID	: MW-3A	**Matrix**	: WATER
Lab Sample ID	: L2434679-01	**Analysis Date**	: 06/25/24 03:45
Dup Sample ID	: WG1938799-3	**DUP Analysis Date**	: 06/25/24 03:46

Parameter	Sample Concentration (mg/l)	Duplicate Concentration (mg/l)	RPD	RPD Limit
Nitrogen, Nitrate/Nitrite	0.078J	0.061J	NC	20

Form 7
Laboratory Control Sample

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Client Sample ID	: NA	**Matrix**	: WATER
Lab Sample ID	: WG1938799-2	**LCS Analysis Date**	: 06/25/24 03:10
Dup Sample ID	:	**LCSD Analysis Date**	:

	Laboratory Control Sample			Laboratory Control Duplicate					
Parameter	**True (mg/l)**	**Found (mg/l)**	**%R**	**True (mg/l)**	**Found (mg/l)**	**%R**	**RPD**	**Recovery Limits**	**RPD Limit**
Nitrogen, Nitrate/Nitrite	**5.00**	**5.10**	**102.**					**90-110**	**20**

Date Created: 11/11/21
Created By: Jason Hebert
File: PM11467-1
Page: 1

WETCHEM (WATER)

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Method	Holding Time	Container/Sample Preservation
Nitrogen, Nitrate	14797-55-8	0.1	0.0228	mg/l	90-110		83-113	6	6	353.2	48 hours	1 - Plastic 250ml unpreserved
Nitrogen, Nitrate	14797-55-8	0.1	0.0228	mg/l	90-110		83-113	17	17	4500NO3-F	48 hours	1 - Plastic 250ml unpreserved
Nitrogen, Nitrite	NONE	0.05	0.0143	mg/l	90-110	20	80-120	20	20	353.2	48 hours	1 - Plastic 250ml unpreserved
Nitrogen, Nitrite	NONE	0.05	0.0143	mg/l	90-110	20	80-120	20	20	4500NO3-F	48 hours	1 - Plastic 250ml unpreserved

Please Note that the RL information provided in this table is calculated using a 100% Solids factor. (Soil/Solids only)
Please Note that the information provided in this table is subject to change at anytime at the discretion of Alpha Analytical, Inc.

Date Created: 11/11/21
Created By: Jason Hebert
File: PM11468-1
Page: 1

WETCHEM (SOIL)

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Method	Holding Time	Container/Sample Preservation
Nitrogen, Nitrate	14797-55-8	1	0.261	mg/kg	90-110	20	80-120	20	20	4500NO3-F	48 hours	1 - Glass 250ml/8oz unpreserved
Nitrogen, Nitrite	NONE	1	0.282	mg/kg	90-110	20	80-120	20	20	4500NO3-F	48 hours	1 - Glass 250ml/8oz unpreserved

Please Note that the RL information provided in this table is calculated using a 100% Solids factor. (Soil/Solids only)
Please Note that the information provided in this table is subject to change at anytime at the discretion of Alpha Analytical, Inc.

Calculations of Nitrogen, Nitrate

Aqueous Samples:
Compute sample N in NO3 concentration by comparing sample peak areas with standard curve, as determined by the Lachat instrument software.

Calculate results by using reading on Channel 1 (NO3+NO2) and Channel 2 (NO2)

$$NO3\ mg/I = (NO3+NO2)\ mg/L - (NO2)\ mg/L$$

To compute final results for aqueous samples, multiply the direct reading by the dilution factor (also done using software)

$$(NO3)\text{-}N\ mg/L = mg/L\ direct\ reading \times dilution\ factor$$

Calculations of Nitrogen, Nitrite

Aqueous Samples:
Compute sample N in NO2 concentration by comparing sample peak areas with standard curve, as determined by the Lachat instrument software.

Calculate results by using reading on Channel 2 (NO2)

To compute final results for aqueous samples, multiply the direct reading by the dilution factor (also done using software)

$$(NO2)\text{-}N\ mg/L = mg/L\ direct\ reading \times dilution\ factor$$

Sequence Logs

Date: 062524

Initals: KAF

Syringe Lot: 20230620

Filter Lot: 18048470A

Cup #:	Sample ID:	Comments:
1 (RA1)	**ICV NO3 5**	*Buffer: NO3NO2_062124_BUFFER*
2 (RA2)	**ICV NO2 5**	*Color: NO3NO2_061824_COLOR*
3 (RA3)	**ICV NO3 0.5**	*NO3 MS: NO3_061224_200PPM_CAL*
4 (RA4)	**ICV NO2 0.5**	*NO2 MS: NO2_062024_200PPM_CAL*
5 (RA5)	**ICB**	*ICV NO3 5: NO3_062124_5PPM_ICV*
6 (RA6)	**5X DILUTER CHECK**	*ICV NO2 5: NO2_062224_5PPM_ICV*
7	**BLANK NO3**	*ICV NO3 0.5: NO3_062524_0.5PPM_ICV*
8	**LCS NO3**	*ICV NO2 0.5: NO2_062524_0.5PPM_ICV*
9	**BLANK NO2**	
10	**LCS NO2**	
11 (RA9)	**WG1938796-1; NO2/831**	*OOH*
12 (RA10)	**WG1938796-2; NO2/831**	*DW*
13 (RA7)	**WG1938797/798-1; NO3/832**	*GOING OOH*
14 (RA8)	**WG1938797/798-2; NO3/832**	**FIELD BLANK**
15	**WG1938799-1; CNO3**	
16	**WG1938799-2; CNO3**	
17	**WG1938800-1; CNO3**	
18	**WG1938800-2; CNO3**	
19	**WG1938801-1; CNO3**	
20	**WG1938801-2; CNO3**	
21 (RA11)	**L2435494-01**	
22 (RA12)	**WG1938797-3; NO3**	
23 (RA13)	**WG1938797-4; NO3**	
24 (RA14)	**WG1938796-3; NO2**	
25 (RA15)	**WG1938796-4; NO2**	
26 (RA16)	**L2435499-01**	
27 (RA17)	**L2435499-02**	
28 (RA18)	**L2435499-03**	
29	**L2435612-01**	
30	**WG1938798-3; NO3**	
31	**WG1938798-4; NO3**	
32	**L2434679-01**	
33	**WG1938799-3; CNO3**	
34	**WG1938799-4; CNO3**	
35	**L2434679-02**	
36	**WG1938799-5; CNO3**	
37	**WG1938799-6; CNO3**	
38	**L2434679-03**	
39	**L2434679-04**	
40	**L2434679-05**	
41	**L2434679-06**	
42	**L2434679-07**	
43	**L2434679-08**	

Cup #:	Sample ID:	Comments:		
44	**L2434679-09**			
45	**L2434679-10**			
46	**L2434679-11**			
47	**L2434679-14**			
48	**L2435116-01**			
49	**L2435493-02**			
50	**L2435642-01**			
51	**L2435642-02**			
52	**L2435655-01**			
53	**L2435655-02**			
54	**L2435241-01**			
55	**WG1938800-3; CNO3**			
56	**WG1938800-4; CNO3**			
57	**L2435241-02**			
58	**L2435241-03**			
59	**L2435241-04**			
60	**L2435241-05**			
61	**L2435241-06**			
62	**L2435241-07**			
63	**L2435241-08**			
64	**L2435241-09**			
65	**L2434244-01**			
66	**WG1938801-3; CNO3**			
67	**WG1938801-4; CNO3**			
68	**L2435420-01**			
69	**L2435420-04**			
70	**l2435570-01a**			
71	**WG1938831-3; NO2**			
72	**WG1938831-4; NO2**			
73	**l2435572-01i**			
74	**WG1938832-3; NO3**			
75	**WG1938832-4; NO3**			
76 (RA19)	**l2435585-01g**			
77 (RA20)	**WG1938797-5; NO3**			
78 (RA21)	**WG1938797-6; NO3**			
79 (RA22)	**l2435585-02g**			
80 (RA23)	**l2435562-01m**			
81 (RA24)	**l2435562-02m**			
82 (RA25)	**l2435562-03m**			
83 (RA26)	**l2435562-04m**			
84 (RA27)	**l2435562-05m**			
85	**WG1938839-1; NO3**		5.0117	0.100234
86	**WG1938839-2; NO3**		5.1385	0.10277
87	**l2434569-01b**		5.2845	0.10569
88	**WG1938839-3; NO3**		5.2515	0.10503
89	**WG1938839-4; NO3**		5.2457	0.104914

Cup #:	Sample ID:	Comments:	
90	**l2434571-01b**	5.2666	0.105332
91			
92			
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98			
99			
100			
101			
102			
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Total Dissolved Solids Analysis

Results

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Lab ID	: L2434679-01	**Date Collected**	: 06/19/24 09:30
Client ID	: MW-3A	**Date Received**	: 06/19/24
Sample Location	: MANORVILLE, NY	**Date Analyzed**	: 06/22/24 19:44
Sample Matrix	: WATER	**Dilution Factor**	: 1.3
Analytical Method	: 121,2540C	**Analyst**	: REM
Lab File ID	: WG1938045.pdf	**Instrument ID**	: BALANCE#22
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Solids, Total Dissolved	41.	13	4.0	

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Lab ID	: L2434679-02	**Date Collected**	: 06/18/24 16:35
Client ID	: MW-6A	**Date Received**	: 06/19/24
Sample Location	: MANORVILLE, NY	**Date Analyzed**	: 06/22/24 19:44
Sample Matrix	: WATER	**Dilution Factor**	: 1.3
Analytical Method	: 121,2540C	**Analyst**	: REM
Lab File ID	: WG1938045.pdf	**Instrument ID**	: BALANCE#22
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Solids, Total Dissolved	150	13	4.0	

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Lab ID	: L2434679-03	**Date Collected**	: 06/18/24 14:50
Client ID	: MW-6B	**Date Received**	: 06/19/24
Sample Location	: MANORVILLE, NY	**Date Analyzed**	: 06/22/24 10:54
Sample Matrix	: WATER	**Dilution Factor**	: 1.3
Analytical Method	: 121,2540C	**Analyst**	: SMD
Lab File ID	: WG1937939.pdf	**Instrument ID**	: BALANCE#22
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Solids, Total Dissolved	210	13	4.0	

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Lab ID	: L2434679-04	**Date Collected**	: 06/18/24 14:49
Client ID	: MW-6C	**Date Received**	: 06/19/24
Sample Location	: MANORVILLE, NY	**Date Analyzed**	: 06/22/24 10:54
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,2540C	**Analyst**	: SMD
Lab File ID	: WG1937939.pdf	**Instrument ID**	: BALANCE#22
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Solids, Total Dissolved	300	10	3.1	

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Lab ID	: L2434679-05	**Date Collected**	: 06/18/24 10:15
Client ID	: MW-7A	**Date Received**	: 06/19/24
Sample Location	: MANORVILLE, NY	**Date Analyzed**	: 06/22/24 10:54
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,2540C	**Analyst**	: SMD
Lab File ID	: WG1937939.pdf	**Instrument ID**	: BALANCE#22
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Solids, Total Dissolved	90.	10	3.1	

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Lab ID	: L2434679-06	**Date Collected**	: 06/18/24 12:05
Client ID	: MW-7B	**Date Received**	: 06/19/24
Sample Location	: MANORVILLE, NY	**Date Analyzed**	: 06/22/24 19:44
Sample Matrix	: WATER	**Dilution Factor**	: 1.3
Analytical Method	: 121,2540C	**Analyst**	: REM
Lab File ID	: WG1938045.pdf	**Instrument ID**	: BALANCE#22
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Solids, Total Dissolved	150	13	4.0	

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Lab ID	: L2434679-07	**Date Collected**	: 06/18/24 12:12
Client ID	: MW-7C	**Date Received**	: 06/19/24
Sample Location	: MANORVILLE, NY	**Date Analyzed**	: 06/22/24 19:44
Sample Matrix	: WATER	**Dilution Factor**	: 1.3
Analytical Method	: 121,2540C	**Analyst**	: REM
Lab File ID	: WG1938045.pdf	**Instrument ID**	: BALANCE#22
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Solids, Total Dissolved	140	13	4.0	

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Lab ID	: L2434679-08	**Date Collected**	: 06/18/24 16:47
Client ID	: MW-8A	**Date Received**	: 06/19/24
Sample Location	: MANORVILLE, NY	**Date Analyzed**	: 06/22/24 19:44
Sample Matrix	: WATER	**Dilution Factor**	: 1.3
Analytical Method	: 121,2540C	**Analyst**	: REM
Lab File ID	: WG1938045.pdf	**Instrument ID**	: BALANCE#22
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Solids, Total Dissolved	100	13	4.0	

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Lab ID	: L2434679-09	**Date Collected**	: 06/18/24 18:25
Client ID	: MW-8B	**Date Received**	: 06/19/24
Sample Location	: MANORVILLE, NY	**Date Analyzed**	: 06/22/24 19:44
Sample Matrix	: WATER	**Dilution Factor**	: 1.3
Analytical Method	: 121,2540C	**Analyst**	: REM
Lab File ID	: WG1938045.pdf	**Instrument ID**	: BALANCE#22
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Solids, Total Dissolved	190	13	4.0	

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Lab ID	: L2434679-10	**Date Collected**	: 06/19/24 11:00
Client ID	: MW-9B	**Date Received**	: 06/19/24
Sample Location	: MANORVILLE, NY	**Date Analyzed**	: 06/24/24 03:03
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,2540C	**Analyst**	: DEW
Lab File ID	: WG1938291.pdf	**Instrument ID**	: BALANCE#22
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Solids, Total Dissolved	80.	10	3.1	

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Lab ID	: L2434679-11	**Date Collected**	: 06/18/24 00:00
Client ID	: DUP	**Date Received**	: 06/19/24
Sample Location	: MANORVILLE, NY	**Date Analyzed**	: 06/22/24 10:54
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,2540C	**Analyst**	: SMD
Lab File ID	: WG1937939.pdf	**Instrument ID**	: BALANCE#22
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Solids, Total Dissolved	77.	10	3.1	

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Lab ID	: L2434679-14	**Date Collected**	: 06/18/24 18:07
Client ID	: MW-8B2	**Date Received**	: 06/19/24
Sample Location	: MANORVILLE, NY	**Date Analyzed**	: 06/24/24 03:03
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,2540C	**Analyst**	: DEW
Lab File ID	: WG1938291.pdf	**Instrument ID**	: BALANCE#22
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Solids, Total Dissolved	150	10	3.1	

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Lab ID	: WG1937939-1	**Date Collected**	: NA
Client ID	: WG1937939-1BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 06/22/24 10:54
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,2540C	**Analyst**	: SMD
Lab File ID	: WG1937939.pdf	**Instrument ID**	: BALANCE#22
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Solids, Total Dissolved	ND	10	3.1	U

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Lab ID	: WG1937939-3	**Date Collected**	: 06/18/24 08:50
Client ID	: WG1937939-3 DUP	**Date Received**	: 06/18/24
Sample Location	:	**Date Analyzed**	: 06/22/24 10:54
Sample Matrix	: WATER	**Dilution Factor**	: 2
Analytical Method	: 121,2540C	**Analyst**	: SMD
Lab File ID	: WG1937939.pdf	**Instrument ID**	: BALANCE#22
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Solids, Total Dissolved	130	20	6.1	

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Lab ID	: WG1937939-4	**Date Collected**	: 06/18/24 08:45
Client ID	: WG1937939-4 DUP	**Date Received**	: 06/18/24
Sample Location	:	**Date Analyzed**	: 06/22/24 10:54
Sample Matrix	: WATER	**Dilution Factor**	: 1.3
Analytical Method	: 121,2540C	**Analyst**	: SMD
Lab File ID	: WG1937939.pdf	**Instrument ID**	: BALANCE#22
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Solids, Total Dissolved	340	13	4.0	

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Lab ID	: WG1938045-1	**Date Collected**	: NA
Client ID	: WG1938045-1BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 06/22/24 19:44
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,2540C	**Analyst**	: REM
Lab File ID	: WG1938045.pdf	**Instrument ID**	: BALANCE#22
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Solids, Total Dissolved	ND	10	3.1	U

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Lab ID	: WG1938045-3	**Date Collected**	: 06/19/24 12:30
Client ID	: WG1938045-3 DUP	**Date Received**	: 06/19/24
Sample Location	:	**Date Analyzed**	: 06/22/24 19:44
Sample Matrix	: WATER	**Dilution Factor**	: 1.3
Analytical Method	: 121,2540C	**Analyst**	: REM
Lab File ID	: WG1938045.pdf	**Instrument ID**	: BALANCE#22
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Solids, Total Dissolved	150	13	4.0	

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Lab ID	: WG1938045-4	**Date Collected**	: 06/19/24 13:10
Client ID	: WG1938045-4 DUP	**Date Received**	: 06/19/24
Sample Location	:	**Date Analyzed**	: 06/22/24 19:44
Sample Matrix	: WATER	**Dilution Factor**	: 1.3
Analytical Method	: 121,2540C	**Analyst**	: REM
Lab File ID	: WG1938045.pdf	**Instrument ID**	: BALANCE#22
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Solids, Total Dissolved	180	13	4.0	

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Lab ID	: WG1938291-1	**Date Collected**	: NA
Client ID	: WG1938291-1BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 06/24/24 03:03
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,2540C	**Analyst**	: DEW
Lab File ID	: WG1938291.pdf	**Instrument ID**	: BALANCE#22
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Solids, Total Dissolved	ND	10	3.1	U

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Lab ID	: WG1938291-3	**Date Collected**	: 06/20/24 07:00
Client ID	: WG1938291-3 DUP	**Date Received**	: 06/20/24
Sample Location	:	**Date Analyzed**	: 06/24/24 03:03
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,2540C	**Analyst**	: DEW
Lab File ID	: WG1938291.pdf	**Instrument ID**	: BALANCE#22
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Solids, Total Dissolved	350	10	3.1	

Sample Raw Data

Wet Chemistry Gravimetric ELN

Printed: JUN-25-24 09:17:26

WorkGroup	WG1938291	**Temp In (C)**	180	**Temp In (C)**	180	**Temp In (C)**	180	**Temp In (C)**		**Temp In (C)**					
Title	Solids, Total Dissolved	**Temp Out (C)**	180	**Temp Out (C)**	180	**Temp Out (C)**	180	**Temp Out (C)**		**Temp Out (C)**					
Method	SM2540C	**Time In**	25-JUN-24 01:20	**Time In**	25-JUN-24 04:28	**Time In**	25-JUN-24 07:40	**Time In**		**Time In**					
Instrument	BALANCE#22	**Time Out**	25-JUN-24 03:27	**Time Out**	25-JUN-24 06:28	**Time Out**	25-JUN-24 09:02	**Time Out**		**Time Out**					

Evaporation	**Temp In (C)**	**Time In**
	90	24-JUN-24 08:36

LCS Lot #	**TrueValue**	**Units**
060524C	500	mg/l

Sample #	Analysis Date	Analyst	Cup ID	Filter Lot	Tare Weight (gm)	Sample Volume (ml)	Net Weight (1) (gm)	Net Weight (2) (gm)	Net Weight (3) (gm)	Net Weight (4) (gm)	Net Weight (5) (gm)	Result mg/L	Dil	Comment
L2434350-01	24-JUN-24 03:03	DEB WHELAN	QM	71913377	106.8002	100	106.8127	106.813				125.00		INF
L2434350-02	24-JUN-24 03:03	DEB WHELAN	PR	71913377	103.1512	100	103.1702	103.17				188.00		EFF
L2434611-01	24-JUN-24 03:03	DEB WHELAN	BU	71913377	110.3399	80	110.3537	110.3534				168.75		
L2434611-02	24-JUN-24 03:03	DEB WHELAN	FR	71913377	59.1881	80	59.1981	59.1991	59.1989			125.00		
L2434611-03	24-JUN-24 03:03	DEB WHELAN	A5	71913377	64.0562	80	64.0704	64.0703				176.25		
L2434611-04	24-JUN-24 03:03	DEB WHELAN	R2	71913377	62.2943	80	62.3078	62.3075				165.00		
L2434679-10	24-JUN-24 03:03	DEB WHELAN	P3	71913377	66.8881	80	66.8945	66.8948				80.00		
L2434679-14	24-JUN-24 03:03	DEB WHELAN	A11	71913377	69.7357	80	69.7479	69.7482				152.50		
L2434782-01	24-JUN-24 03:03	DEB WHELAN	F9	71913377	66.2918	80	66.2958	66.2961				50.00		
L2434997-01	24-JUN-24 03:03	DEB WHELAN	AA2	71913377	64.1521	100	64.1878	64.1875				354.00		
WG1938291-1	24-JUN-24 03:03	DEB WHELAN		71913377	63.5926	100	63.592	63.5917				-9.00	1	
WG1938291-2	24-JUN-24 03:03	DEB WHELAN		71913377	65.2358	50	65.2603	65.26				484.00	2	
WG1938291-3	24-JUN-24 03:03	DEB WHELAN	RR	71913377	65.3325	100	65.3673	65.3672				347.00		

Wet Chemistry Gravimetric ELN

Printed: JUN-24-24 09:31:38

WorkGroup	WG1938045	**Temp In (C)**	180	**Temp In (C)**	180	**Temp In (C)**	180	**Temp In (C)**		**Temp In (C)**					
Title	Solids, Total Dissolved	**Temp Out (C)**	180	**Temp Out (C)**	180	**Temp Out (C)**	180	**Temp Out (C)**		**Temp Out (C)**					
Method	SM2540C	**Time In**	24-JUN-24 01:15	**Time In**	24-JUN-24 04:31	**Time In**	24-JUN-24 07:30	**Time In**		**Time In**					
Instrument	BALANCE#22	**Time Out**	24-JUN-24 03:21	**Time Out**	24-JUN-24 07:26	**Time Out**	24-JUN-24 09:07	**Time Out**		**Time Out**					

Evaporation	**Temp In (C)**	**Time In**	**LCS Lot #**	**TrueValue**	**Units**
	90	22-JUN-24 20:45	060524B	500	mg/l

Sample #	Analysis Date	Analyst	Cup ID	Filter Lot	Tare Weight (gm)	Sample Volume (ml)	Net Weight (1) (gm)	Net Weight (2) (gm)	Net Weight (3) (gm)	Net Weight (4) (gm)	Net Weight (5) (gm)	Result mg/L	Dil	Comment
L2434543-02	22-JUN-24 19:44	RENATA MUKHAMETZHANOVA	EM	71913377	67.5243	80	67.738	67.7366	67.7365			2652.50	1.3	
L2434543-03	22-JUN-24 19:44	RENATA MUKHAMETZHANOVA	OG	71913377	138.4113	80	138.5166	138.5163				1312.50	1.3	
L2434543-04	22-JUN-24 19:44	RENATA MUKHAMETZHANOVA	BQ	71913377	147.3906	80	147.4817	147.4832	147.4861			1138.75	1.3	
L2434543-05	22-JUN-24 19:44	RENATA MUKHAMETZHANOVA	RF	71913377	123.4226	80	123.4669	123.4668				552.50	1.3	
L2434543-06	22-JUN-24 19:44	RENATA MUKHAMETZHANOVA	XO	71913377	64.4599	80	64.6134	64.6137				1918.75	1.3	
L2434543-07	22-JUN-24 19:44	RENATA MUKHAMETZHANOVA	EZ	71913377	61.275	80	61.3747	61.3743				1241.25	1.3	
L2434543-08	22-JUN-24 19:44	RENATA MUKHAMETZHANOVA	EG	71913377	62.8155	80	62.872	62.8724				706.25	1.3	
L2434543-09	22-JUN-24 19:44	RENATA MUKHAMETZHANOVA	P8	71913377	70.8046	80	70.897	70.8973				1155.00	1.3	
L2434543-10	22-JUN-24 19:44	RENATA MUKHAMETZHANOVA	EL	71913377	64.2218	80	64.3379	64.3378				1450.00	1.3	T2
L2434543-11	22-JUN-24 19:44	RENATA MUKHAMETZHANOVA	EF	71913377	57.8483	80	57.9983	57.9984				1875.00	1.3	
L2434543-12	22-JUN-24 19:44	RENATA MUKHAMETZHANOVA	TN	71913377	68.9991	80	69.0974	69.0978				1228.75	1.3	
L2434656-01	22-JUN-24 19:44	RENATA MUKHAMETZHANOVA	QF	71913377	116.6216	100	116.6299	116.6301				83.00		

Wet Chemistry Gravimetric ELN

Printed: JUN-24-24 09:31:38

WorkGroup	WG1938045	**Temp In (C)**	180	**Temp In (C)**	180	**Temp In (C)**	180	**Temp In (C)**		**Temp In (C)**					
Title	Solids, Total Dissolved	**Temp Out (C)**	180	**Temp Out (C)**	180	**Temp Out (C)**	180	**Temp Out (C)**		**Temp Out (C)**					
Method	SM2540C	**Time In**	24-JUN-24 01:15	**Time In**	24-JUN-24 04:31	**Time In**	24-JUN-24 07:30	**Time In**		**Time In**					
Instrument	BALANCE#22	**Time Out**	24-JUN-24 03:21	**Time Out**	24-JUN-24 07:26	**Time Out**	24-JUN-24 09:07	**Time Out**		**Time Out**					

Temp In (C)	**Time In**
90	22-JUN-24 20:45

LCS Lot #	**TrueValue**	**Units**
060524B	500	mg/l

Sample #	Analysis Date	Analyst	Cup ID			Sample Volume (ml)						Result mg/L	Dil	Comment
L2434678-01	22-JUN-24 19:44	RENATA MUKHAMETZHANOVA	AA	71913377	113.1718	80	113.1845	113.1854	113.1856			158.75	1.3	INFLUENT
L2434678-02	22-JUN-24 19:44	RENATA MUKHAMETZHANOVA	B47	71913377	70.3878	80	70.4041	70.4037				198.75	1.3	EFFLUENT
L2434679-01	22-JUN-24 19:44	RENATA MUKHAMETZHANOVA	CF	71913377	62.1774	80	62.1807	62.181				41.25	1.3	
L2434679-02	22-JUN-24 19:44	RENATA MUKHAMETZHANOVA	FX	71913377	61.4956	80	61.5077	61.5079				151.25	1.3	
L2434679-06	22-JUN-24 19:44	RENATA MUKHAMETZHANOVA	W12	71913377	64.6806	80	64.693	64.6927				151.25	1.3	
L2434679-07	22-JUN-24 19:44	RENATA MUKHAMETZHANOVA	X	71913377	65.4837	80	65.4949	65.495				140.00	1.3	
L2434679-08	22-JUN-24 19:44	RENATA MUKHAMETZHANOVA	CO	71913377	59.4252	80	59.4332	59.4334				100.00	1.3	
L2434679-09	22-JUN-24 19:44	RENATA MUKHAMETZHANOVA	B45	71913377	64.4366	80	64.452	64.4522				192.50	1.3	
WG1938045-1	22-JUN-24 19:44	RENATA MUKHAMETZHANOVA	PZ	71913377	64.617	100	64.6161	64.6164				-9.00	1	
WG1938045-2	22-JUN-24 19:44	RENATA MUKHAMETZHANOVA	FO	71913377	72.0902	50	72.1139	72.1136				468.00	2	
WG1938045-3	22-JUN-24 19:44	RENATA MUKHAMETZHANOVA	AZ	71913377	71.4918	80	71.5036	71.5045	71.5054			147.50	1.3	
WG1938045-4	22-JUN-24 19:44	RENATA MUKHAMETZHANOVA	GA	71913377	65.7457	80	65.7604	65.7606				183.75	1.3	

Wet Chemistry Gravimetric ELN

Printed: JUN-24-24 09:32:39

WorkGroup	WG1937939	**Temp In (C)**	180	**Temp In (C)**	180	**Temp In (C)**	180	**Temp In (C)**		**Temp In (C)**					
Title	Solids, Total Dissolved	**Temp Out (C)**	180	**Temp Out (C)**	180	**Temp Out (C)**	180	**Temp Out (C)**		**Temp Out (C)**					
Method	SM2540C	**Time In**	24-JUN-24 01:15	**Time In**	24-JUN-24 04:33	**Time In**	24-JUN-24 07:34	**Time In**		**Time In**					
Instrument	BALANCE#22	**Time Out**	24-JUN-24 03:22	**Time Out**	24-JUN-24 07:31	**Time Out**	24-JUN-24 09:06	**Time Out**		**Time Out**					

Evaporation	**Temp In (C)**	**Time In**	**LCS Lot #**	**TrueValue**	**Units**
	90	22-JUN-24 12:12	060524-B	500	mg/l

Sample #	Analysis Date	Analyst	Cup ID	Filter Lot	Tare Weight (gm)	Sample Volume (ml)	Net Weight (1) (gm)	Net Weight (2) (gm)	Net Weight (3) (gm)	Net Weight (4) (gm)	Net Weight (5) (gm)	Result mg/L	Dil	Comment
L2434089-05	22-JUN-24 10:54	SONJA DAYN	A14	71913376	75.0933	80	75.1035	75.1042	75.1043			127.50	1.3	
L2434089-06	22-JUN-24 10:54	SONJA DAYN	XB	71913376	71.0836	80	71.1542	71.1537	71.1516			850.00	1.3	
L2434089-07	22-JUN-24 10:54	SONJA DAYN	QD	71913376	107.8066	100	107.8565	107.8568				499.00	1	
L2434089-08	22-JUN-24 10:54	SONJA DAYN	EA	71913376	53.0038	80	53.0302	53.0299				326.25	1.3	
L2434089-09	22-JUN-24 10:54	SONJA DAYN	EJ	71913376	57.7298	80	57.7446	57.7446				185.00	1.3	
L2434089-10	22-JUN-24 10:54	SONJA DAYN	QG	71913376	107.0294	100	107.058	107.0579				285.00	1	
L2434089-11	22-JUN-24 10:54	SONJA DAYN	BA	71913376	76.1061	100	76.1217	76.118	76.1152			91.00	1	
L2434089-12	22-JUN-24 10:54	SONJA DAYN	WG	71913376	72.6072	80	72.6485	72.6481				511.25	1.3	
L2434234-01	22-JUN-24 10:54	SONJA DAYN	CB	71913376	62.6474	50	62.6571	62.6572				194.00	2	TRAY 2
L2434234-02	22-JUN-24 10:54	SONJA DAYN	BL	71913376	107.8832	80	107.9101	107.9099				333.75	1.3	
L2434234-03	22-JUN-24 10:54	SONJA DAYN	LN	71913376	147.2854	50	147.2913	147.2909				110.00	2	
L2434234-04	22-JUN-24 10:54	SONJA DAYN	BI	71913376	84.5183	80	84.8488	84.8492				4131.25	1.3	
L2434234-05	22-JUN-24 10:54	SONJA DAYN	PW	71913376	134.8145	100	134.82	134.8204				55.00	1	
L2434234-06	22-JUN-24 10:54	SONJA DAYN	SQ	71913376	139.1266	80	139.1329	139.1338	139.1299			41.25	1.3	
L2434234-07	22-JUN-24 10:54	SONJA DAYN	XX	71913376	112.5778	100	112.5916	112.592				138.00	1	
L2434413-01	22-JUN-24 10:54	SONJA DAYN	SE	71913376	83.8699	100	83.9738	83.9735				1036.00	1	
L2434679-03	22-JUN-24 10:54	SONJA DAYN	EB	71913376	68.9296	80	68.9461	68.9465				206.25	1.3	
L2434679-04	22-JUN-24 10:54	SONJA DAYN	XX	71913376	144.7821	100	144.8129	144.8139	144.812			299.00	1	
L2434679-05	22-JUN-24 10:54	SONJA DAYN	LC	71913376	143.2221	100	143.2323	143.2344	143.2311			90.00	1	
L2434679-11	22-JUN-24 10:54	SONJA DAYN	XY	71913376	136.419	100	136.4289	136.431	136.4267			77.00	1	
WG1937939-1	22-JUN-24 10:54	SONJA DAYN	PG	71913376	61.7278	100	61.7276	61.7279				-2.00	1	
WG1937939-2	22-JUN-24 10:54	SONJA DAYN	AA3	71913376	67.7941	50	67.8205	67.8203				524.00	2	
WG1937939-3	22-JUN-24 10:54	SONJA DAYN	MN	71913376	75.1929	50	75.1994	75.1995				130.00	2	

Wet Chemistry Gravimetric ELN

Printed: JUN-24-24 09:32:39

WorkGroup	WG1937939	**Temp In (C)**	180	**Temp In (C)**	180	**Temp In (C)**	180	**Temp In (C)**		**Temp In (C)**					
Title	Solids, Total Dissolved	**Temp Out (C)**	180	**Temp Out (C)**	180	**Temp Out (C)**	180	**Temp Out (C)**		**Temp Out (C)**					
Method	SM2540C	**Time In**	24-JUN-24 01:15	**Time In**	24-JUN-24 04:33	**Time In**	24-JUN-24 07:34	**Time In**		**Time In**					
Instrument	BALANCE#22	**Time Out**	24-JUN-24 03:22	**Time Out**	24-JUN-24 07:31	**Time Out**	24-JUN-24 09:06	**Time Out**		**Time Out**					

Temp In (C)	**Time In**
90	22-JUN-24 12:12

LCS Lot #	**TrueValue**	**Units**
060524-B	500	mg/l

Sample #	**Analysis Date**	**Analyst**	**Cup ID**			**Sample Volume (ml)**					**Result mg/L**	**Dil**	**Comment**
WG1937939-4	22-JUN-24 10:54	SONJA DAYN	B46	71913376	73.3023	80	73.3299	73.3301			345.00	1.3	

Quality Control

Form 6
Lab Duplicates

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Client Sample ID	: NA	**Matrix**	: WATER
Lab Sample ID	: NA	**Analysis Date**	: 06/22/24 10:54
Dup Sample ID	: WG1937939-3	**DUP Analysis Date**	: 06/22/24 10:54

Parameter	Sample Concentration (mg/l)	Duplicate Concentration (mg/l)	RPD	RPD Limit
Solids, Total Dissolved	190	130	38 Q	10

Form 6
Lab Duplicates

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Client Sample ID	: NA	**Matrix**	: WATER
Lab Sample ID	: NA	**Analysis Date**	: 06/22/24 10:54
Dup Sample ID	: WG1937939-4	**DUP Analysis Date**	: 06/22/24 10:54

Parameter	Sample Concentration (mg/l)	Duplicate Concentration (mg/l)	RPD	RPD Limit
Solids, Total Dissolved	330	340	3	10

Form 6
Lab Duplicates

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Client Sample ID	: NA	**Matrix**	: DW
Lab Sample ID	: NA	**Analysis Date**	: 06/22/24 19:44
Dup Sample ID	: WG1938045-3	**DUP Analysis Date**	: 06/22/24 19:44

Parameter	Sample Concentration (mg/l)	Duplicate Concentration (mg/l)	RPD	RPD Limit
Solids, Total Dissolved	160	150	6	10

Form 6
Lab Duplicates

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Client Sample ID	: NA	**Matrix**	: DW
Lab Sample ID	: NA	**Analysis Date**	: 06/22/24 19:44
Dup Sample ID	: WG1938045-4	**DUP Analysis Date**	: 06/22/24 19:44

Parameter	Sample Concentration (mg/l)	Duplicate Concentration (mg/l)	RPD	RPD Limit
Solids, Total Dissolved	200	180	11 Q	10

Form 6
Lab Duplicates

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Client Sample ID	: NA	**Matrix**	: DW
Lab Sample ID	: NA	**Analysis Date**	: 06/24/24 03:03
Dup Sample ID	: WG1938291-3	**DUP Analysis Date**	: 06/24/24 03:03

Parameter	Sample Concentration (mg/l)	Duplicate Concentration (mg/l)	RPD	RPD Limit
Solids, Total Dissolved	350	350	0	10

Form 7
Laboratory Control Sample

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Client Sample ID	: NA	**Matrix**	: WATER
Lab Sample ID	: WG1937939-2	**LCS Analysis Date**	: 06/22/24 10:54
Dup Sample ID	:	**LCSD Analysis Date**	:

	Laboratory Control Sample			Laboratory Control Duplicate					
Parameter	**True (mg/l)**	**Found (mg/l)**	**%R**	**True (mg/l)**	**Found (mg/l)**	**%R**	**RPD**	**Recovery Limits**	**RPD Limit**
Solids, Total Dissolved	**500.**	**520.**	**105.**					**80-120**	**10**

Form 7
Laboratory Control Sample

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Client Sample ID	: NA	**Matrix**	: DW
Lab Sample ID	: WG1938045-2	**LCS Analysis Date**	: 06/22/24 19:44
Dup Sample ID	:	**LCSD Analysis Date**	:

	Laboratory Control Sample			Laboratory Control Duplicate					
Parameter	**True (mg/l)**	**Found (mg/l)**	**%R**	**True (mg/l)**	**Found (mg/l)**	**%R**	**RPD**	**Recovery Limits**	**RPD Limit**
Solids, Total Dissolved	**500.**	**470.**	**94.**					**80-120**	**10**

Form 7
Laboratory Control Sample

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Client Sample ID	: NA	**Matrix**	: DW
Lab Sample ID	: WG1938291-2	**LCS Analysis Date**	: 06/24/24 03:03
Dup Sample ID	:	**LCSD Analysis Date**	:

	Laboratory Control Sample			Laboratory Control Duplicate					
Parameter	**True (mg/l)**	**Found (mg/l)**	**%R**	**True (mg/l)**	**Found (mg/l)**	**%R**	**RPD**	**Recovery Limits**	**RPD Limit**
Solids, Total Dissolved	**500.**	**480.**	**97.**					**80-120**	**10**

Date Created: 11/11/21
Created By: Jason Hebert
File: PM11467-1
Page: 1

WETCHEM (WATER)

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Method	Holding Time	Container/Sample Preservation
Solids, Total Dissolved	NONE	10	3.07	mg/l	80-120			10	10	2540C	7 days	1 - Plastic 500ml unpreserved

Please Note that the RL information provided in this table is calculated using a 100% Solids factor. (Soil/Solids only)
Please Note that the information provided in this table is subject to change at anytime at the discretion of Alpha Analytical, Inc.

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Calculations of TDS

$$\text{mgTDS/L} = \frac{(A - B) \times 1000}{\text{Sample volume, (L)}}$$

Where:

A = Final weight (weight of dish + dried residue, g)
B = Initial weight (weight of clean dish, g)

Alkalinity Analysis

Results

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Lab ID	: L2434679-01	**Date Collected**	: 06/19/24 09:30
Client ID	: MW-3A	**Date Received**	: 06/19/24
Sample Location	: MANORVILLE, NY	**Date Analyzed**	: 06/23/24 14:28
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,2320B	**Analyst**	: MRW
Lab File ID	: 240623_csv.csv	**Instrument ID**	: TITR5
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg CaCO3/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
471-34-1	Alkalinity, Total	12.9	2.00	NA	

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Lab ID	: L2434679-02	**Date Collected**	: 06/18/24 16:35
Client ID	: MW-6A	**Date Received**	: 06/19/24
Sample Location	: MANORVILLE, NY	**Date Analyzed**	: 06/23/24 14:30
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,2320B	**Analyst**	: MRW
Lab File ID	: 240623_csv.csv	**Instrument ID**	: TITR5
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg CaCO3/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
471-34-1	Alkalinity, Total	64.4	2.00	NA	

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Lab ID	: L2434679-03	**Date Collected**	: 06/18/24 14:50
Client ID	: MW-6B	**Date Received**	: 06/19/24
Sample Location	: MANORVILLE, NY	**Date Analyzed**	: 06/23/24 14:32
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,2320B	**Analyst**	: MRW
Lab File ID	: 240623_csv.csv	**Instrument ID**	: TITR5
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg CaCO3/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
471-34-1	Alkalinity, Total	150.	2.00	NA	

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Lab ID	: L2434679-04	**Date Collected**	: 06/18/24 14:49
Client ID	: MW-6C	**Date Received**	: 06/19/24
Sample Location	: MANORVILLE, NY	**Date Analyzed**	: 06/23/24 14:37
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,2320B	**Analyst**	: MRW
Lab File ID	: 240623_csv.csv	**Instrument ID**	: TITR5
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg CaCO3/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
471-34-1	Alkalinity, Total	254.	2.00	NA	

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Lab ID	: L2434679-05	**Date Collected**	: 06/18/24 10:15
Client ID	: MW-7A	**Date Received**	: 06/19/24
Sample Location	: MANORVILLE, NY	**Date Analyzed**	: 06/23/24 14:44
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,2320B	**Analyst**	: MRW
Lab File ID	: 240623_csv.csv	**Instrument ID**	: TITR5
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg CaCO3/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
471-34-1	Alkalinity, Total	48.7	2.00	NA	

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Lab ID	: L2434679-06	**Date Collected**	: 06/18/24 12:05
Client ID	: MW-7B	**Date Received**	: 06/19/24
Sample Location	: MANORVILLE, NY	**Date Analyzed**	: 06/23/24 14:46
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,2320B	**Analyst**	: MRW
Lab File ID	: 240623_csv.csv	**Instrument ID**	: TITR5
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg CaCO3/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
471-34-1	Alkalinity, Total	49.4	2.00	NA	

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Lab ID	: L2434679-07	**Date Collected**	: 06/18/24 12:12
Client ID	: MW-7C	**Date Received**	: 06/19/24
Sample Location	: MANORVILLE, NY	**Date Analyzed**	: 06/23/24 14:48
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,2320B	**Analyst**	: MRW
Lab File ID	: 240623_csv.csv	**Instrument ID**	: TITR5
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg CaCO3/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
471-34-1	Alkalinity, Total	32.0	2.00	NA	

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Lab ID	: L2434679-08	**Date Collected**	: 06/18/24 16:47
Client ID	: MW-8A	**Date Received**	: 06/19/24
Sample Location	: MANORVILLE, NY	**Date Analyzed**	: 06/23/24 14:50
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,2320B	**Analyst**	: MRW
Lab File ID	: 240623_csv.csv	**Instrument ID**	: TITR5
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg CaCO3/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
471-34-1	Alkalinity, Total	45.0	2.00	NA	

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Lab ID	: L2434679-09	**Date Collected**	: 06/18/24 18:25
Client ID	: MW-8B	**Date Received**	: 06/19/24
Sample Location	: MANORVILLE, NY	**Date Analyzed**	: 06/23/24 14:52
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,2320B	**Analyst**	: MRW
Lab File ID	: 240623_csv.csv	**Instrument ID**	: TITR5
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg CaCO3/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
471-34-1	Alkalinity, Total	96.3	2.00	NA	

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Lab ID	: L2434679-10	**Date Collected**	: 06/19/24 11:00
Client ID	: MW-9B	**Date Received**	: 06/19/24
Sample Location	: MANORVILLE, NY	**Date Analyzed**	: 06/23/24 14:55
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,2320B	**Analyst**	: MRW
Lab File ID	: 240623_csv.csv	**Instrument ID**	: TITR5
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg CaCO3/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
471-34-1	Alkalinity, Total	12.6	2.00	NA	

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Lab ID	: L2434679-11	**Date Collected**	: 06/18/24 00:00
Client ID	: DUP	**Date Received**	: 06/19/24
Sample Location	: MANORVILLE, NY	**Date Analyzed**	: 06/23/24 14:57
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,2320B	**Analyst**	: MRW
Lab File ID	: 240623_csv.csv	**Instrument ID**	: TITR5
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg CaCO3/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
471-34-1	Alkalinity, Total	44.0	2.00	NA	

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Lab ID	: L2434679-14	**Date Collected**	: 06/18/24 18:07
Client ID	: MW-8B2	**Date Received**	: 06/19/24
Sample Location	: MANORVILLE, NY	**Date Analyzed**	: 06/23/24 14:59
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,2320B	**Analyst**	: MRW
Lab File ID	: 240623_csv.csv	**Instrument ID**	: TITR5
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg CaCO3/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
471-34-1	Alkalinity, Total	68.5	2.00	NA	

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Lab ID	: WG1938137-1	**Date Collected**	: NA
Client ID	: WG1938137-1BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 06/23/24 13:40
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,2320B	**Analyst**	: MRW
Lab File ID	: 240623_csv.csv	**Instrument ID**	: TITR5
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg CaCO3/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
471-34-1	Alkalinity, Total	ND	2.00	NA	U

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Lab ID	: WG1938137-3	**Date Collected**	: 06/17/24 00:00
Client ID	: WG1938137-3 DUP	**Date Received**	: 06/17/24
Sample Location	:	**Date Analyzed**	: 06/23/24 15:08
Sample Matrix	: WATER	**Dilution Factor**	: 2.5
Analytical Method	: 121,2320B	**Analyst**	: MRW
Lab File ID	: 240623_csv.csv	**Instrument ID**	: TITR5
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg CaCO3/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
471-34-1	Alkalinity, Total	438.	5.00	NA	

Sample Raw Data

Titration report

LabX

Method

Method ID	Alk Total (2)	**Release state**	Released
Name	EP/EP	**Modified by**	SystemInternal
Modified on	10/14/2023 11:44:43 AM		

Summary

Samples

	Sample ID	Name	Result	State
1	Rinse,MRW	Sample size	50 mL	
		Potential R4	7.27 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	0.928 mL	OK
		Consumption 4.2 R3	0.931 mL	OK
		Content R5	18.560 mg/L	OK
		ALK LOW R6	18.500 mg/L	OK
2	Rinse,MRW	Sample size	50 mL	
		Potential R4	5.17 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	0.188 mL	OK
		Consumption 4.2 R3	0.198 mL	OK
		Content R5	3.760 mg/L	OK
		ALK LOW R6	3.560 mg/L	OK
3	WG1938115-1	Sample size	50 mL	
		Potential R4	4.63 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	0.007 mL	OK
		Consumption 4.2 R3	0.032 mL	OK
		Content R5	0.140 mg/L	OK
		ALK LOW R6	-0.360 mg/L	OK
4	WG1938115-2	Sample size	50 mL	
		Potential R4	10.97 pH	OK
		Consumption 8.3 R1	4.941 mL	OK
		Consumption 4.5 R2	5.300 mL	OK
		Consumption 4.2 R3	5.300 mL	OK
		Content R5	106.000 mg/L	OK
		ALK LOW R6	106.000 mg/L	OK
5	L2432309-01	Sample size	50 mL	
		Potential R4	5.70 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	4.578 mL	OK
		Consumption 4.2 R3	4.633 mL	OK
		Content R5	91.560 mg/L	OK
		ALK LOW R6	90.460 mg/L	OK
6	WG1938115-3	Sample size	50 mL	

Titration report

		Potential R4	5.82 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	4.644 mL	OK
		Consumption 4.2 R3	4.703 mL	OK
		Content R5	92.880 mg/L	OK
		ALK LOW R6	91.700 mg/L	OK
7	WG1938115-4	Sample size	50 mL	
		Potential R4	9.78 pH	OK
		Consumption 8.3 R1	3.451 mL	OK
		Consumption 4.5 R2	9.821 mL	OK
		Consumption 4.2 R3	9.846 mL	OK
		Content R5	196.420 mg/L	OK
		ALK LOW R6	195.920 mg/L	OK
8	L2432309-02	Sample size	50 mL	
		Potential R4	5.93 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	6.857 mL	OK
		Consumption 4.2 R3	6.968 mL	OK
		Content R5	137.140 mg/L	OK
		ALK LOW R6	134.920 mg/L	OK
9	L2432309-03	Sample size	50 mL	
		Potential R4	6.50 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	7.913 mL	OK
		Consumption 4.2 R3	7.985 mL	OK
		Content R5	158.260 mg/L	OK
		ALK LOW R6	156.820 mg/L	OK
10	L2432309-04	Sample size	50 mL	
		Potential R4	6.37 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	NaN mL	Not OK
		Consumption 4.2 R3	NaN mL	Not OK
		Content R5	NaN mg/L	Not OK
		ALK LOW R6	NaN mg/L	Not OK
11	L2432309-05	Sample size	50 mL	
		Potential R4	5.80 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	NaN mL	Not OK
		Consumption 4.2 R3	NaN mL	Not OK
		Content R5	NaN mg/L	Not OK
		ALK LOW R6	NaN mg/L	Not OK
12	L2432309-06	Sample size	50 mL	
		Potential R4	6.02 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	5.990 mL	OK
		Consumption 4.2 R3	7.048 mL	OK
		Content R5	119.800 mg/L	OK

Titration report

		ALK LOW R6	98.640 mg/L	OK
13	L2432309-07	Sample size	50 mL	
		Potential R4	6.00 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	NaN mL	Not OK
		Consumption 4.2 R3	NaN mL	Not OK
		Content R5	NaN mg/L	Not OK
		ALK LOW R6	NaN mg/L	Not OK
14	L2432309-08	Sample size	50 mL	
		Potential R4	5.85 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	NaN mL	Not OK
		Consumption 4.2 R3	NaN mL	Not OK
		Content R5	NaN mg/L	Not OK
		ALK LOW R6	NaN mg/L	Not OK
15	L2432309-09	Sample size	50 mL	
		Potential R4	6.25 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	5.263 mL	OK
		Consumption 4.2 R3	5.756 mL	OK
		Content R5	105.260 mg/L	OK
		ALK LOW R6	95.400 mg/L	OK
16	L2432309-10	Sample size	50 mL	
		Potential R4	5.97 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	4.575 mL	OK
		Consumption 4.2 R3	4.649 mL	OK
		Content R5	91.500 mg/L	OK
		ALK LOW R6	90.020 mg/L	OK
17	L2433992-01	Sample size	50 mL	
		Potential R4	6.07 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	3.355 mL	OK
		Consumption 4.2 R3	3.389 mL	OK
		Content R5	67.100 mg/L	OK
		ALK LOW R6	66.420 mg/L	OK
18	L2434044-01	Sample size	50 mL	
		Potential R4	6.72 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	1.984 mL	OK
		Consumption 4.2 R3	2.010 mL	OK
		Content R5	39.680 mg/L	OK
		ALK LOW R6	39.160 mg/L	OK
19	L2434044-02	Sample size	50 mL	
		Potential R4	5.70 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	1.269 mL	OK

Titration report

		Consumption 4.2 R3	1.304 mL	OK
		Content R5	25.380 mg/L	OK
		ALK LOW R6	24.680 mg/L	OK
20	L2434089-01	Sample size	50 mL	
		Potential R4	8.61 pH	OK
		Consumption 8.3 R1	1.158 mL	OK
		Consumption 4.5 R2	3.961 mL	OK
		Consumption 4.2 R3	3.967 mL	OK
		Content R5	79.220 mg/L	OK
		ALK LOW R6	79.100 mg/L	OK
21	L2434089-02	Sample size	50 mL	
		Potential R4	6.13 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	7.647 mL	OK
		Consumption 4.2 R3	7.759 mL	OK
		Content R5	152.940 mg/L	OK
		ALK LOW R6	150.700 mg/L	OK
22	L2434089-03	Sample size	50 mL	
		Potential R4	6.08 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	9.417 mL	OK
		Consumption 4.2 R3	9.537 mL	OK
		Content R5	188.340 mg/L	OK
		ALK LOW R6	185.940 mg/L	OK
23	L2434089-05	Sample size	50 mL	
		Potential R4	6.09 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	5.192 mL	OK
		Consumption 4.2 R3	5.256 mL	OK
		Content R5	103.840 mg/L	OK
		ALK LOW R6	102.560 mg/L	OK
24	L2434089-06	Sample size	50 mL	
		Potential R4	6.94 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	NaN mL	Not OK
		Consumption 4.2 R3	NaN mL	Not OK
		Content R5	NaN mg/L	Not OK
		ALK LOW R6	NaN mg/L	Not OK
25	L2434089-07	Sample size	50 mL	
		Potential R4	6.47 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	15.605 mL	OK
		Consumption 4.2 R3	15.812 mL	OK
		Content R5	312.100 mg/L	OK
		ALK LOW R6	307.960 mg/L	OK
26	L2434089-08	Sample size	50 mL	
		Potential R4	7.02 pH	OK

Titration report

		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	10.723 mL	OK
		Consumption 4.2 R3	10.890 mL	OK
		Content R5	214.460 mg/L	OK
		ALK LOW R6	211.120 mg/L	OK
27	WG1938133-2	Sample size	50 mL	
		Potential R4	11.01 pH	OK
		Consumption 8.3 R1	4.875 mL	OK
		Consumption 4.5 R2	5.205 mL	OK
		Consumption 4.2 R3	5.208 mL	OK
		Content R5	104.100 mg/L	OK
		ALK LOW R6	104.040 mg/L	OK
28	WG1938133-1	Sample size	50 mL	
		Potential R4	5.13 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	0.079 mL	OK
		Consumption 4.2 R3	0.118 mL	OK
		Content R5	1.580 mg/L	OK
		ALK LOW R6	0.800 mg/L	OK
29	L2434089-09	Sample size	50 mL	
		Potential R4	6.24 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	6.043 mL	OK
		Consumption 4.2 R3	6.094 mL	OK
		Content R5	120.860 mg/L	OK
		ALK LOW R6	119.840 mg/L	OK
30	WG1938133-3	Sample size	50 mL	
		Potential R4	6.51 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	6.102 mL	OK
		Consumption 4.2 R3	6.150 mL	OK
		Content R5	122.040 mg/L	OK
		ALK LOW R6	121.080 mg/L	OK
31	WG1938133-4	Sample size	50 mL	
		Potential R4	10.02 pH	OK
		Consumption 8.3 R1	4.180 mL	OK
		Consumption 4.5 R2	8.446 mL	OK
		Consumption 4.2 R3	10.680 mL	OK
		Content R5	168.920 mg/L	OK
		ALK LOW R6	124.240 mg/L	OK
32	L2434089-10	Sample size	50 mL	
		Potential R4	6.17 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	12.399 mL	OK
		Consumption 4.2 R3	12.545 mL	OK
		Content R5	247.980 mg/L	OK
		ALK LOW R6	245.060 mg/L	OK

Titration report

33	L2434089-11	Sample size	50 mL	
		Potential R4	6.91 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	5.158 mL	OK
		Consumption 4.2 R3	5.192 mL	OK
		Content R5	103.160 mg/L	OK
		ALK LOW R6	102.480 mg/L	OK
34	L2434089-12	Sample size	50 mL	
		Potential R4	6.22 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	14.937 mL	OK
		Consumption 4.2 R3	15.133 mL	OK
		Content R5	298.740 mg/L	OK
		ALK LOW R6	294.820 mg/L	OK
35	L2434086-01	Sample size	50 mL	
		Potential R4	6.73 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	6.779 mL	OK
		Consumption 4.2 R3	6.847 mL	OK
		Content R5	135.580 mg/L	OK
		ALK LOW R6	134.220 mg/L	OK
36	L2434086-02	Sample size	50 mL	
		Potential R4	6.13 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	19.595 mL	OK
		Consumption 4.2 R3	19.912 mL	OK
		Content R5	391.900 mg/L	OK
		ALK LOW R6	385.560 mg/L	OK
37	L2434086-03	Sample size	50 mL	
		Potential R4	6.95 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	6.618 mL	OK
		Consumption 4.2 R3	6.670 mL	OK
		Content R5	132.360 mg/L	OK
		ALK LOW R6	131.320 mg/L	OK
38	L2434086-04	Sample size	50 mL	
		Potential R4	4.66 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	0.230 mL	OK
		Consumption 4.2 R3	0.363 mL	OK
		Content R5	4.600 mg/L	OK
		ALK LOW R6	1.940 mg/L	OK
39	L2434086-05	Sample size	50 mL	
		Potential R4	6.78 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	7.220 mL	OK
		Consumption 4.2 R3	7.287 mL	OK

Titration report

		Content R5	144.400 mg/L	OK
		ALK LOW R6	143.060 mg/L	OK
40	L2434086-06	Sample size	50 mL	
		Potential R4	5.99 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	2.380 mL	OK
		Consumption 4.2 R3	2.408 mL	OK
		Content R5	47.600 mg/L	OK
		ALK LOW R6	47.040 mg/L	OK
41	L2434086-07	Sample size	50 mL	
		Potential R4	4.28 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	NaN mL	Not OK
		Consumption 4.2 R3	0.109 mL	OK
		Content R5	NaN mg/L	Not OK
		ALK LOW R6	NaN mg/L	Not OK
42	L2434089-13	Sample size	50 mL	
		Potential R4	6.30 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	19.102 mL	OK
		Consumption 4.2 R3	19.373 mL	OK
		Content R5	382.040 mg/L	OK
		ALK LOW R6	376.620 mg/L	OK
43	L2434089-14	Sample size	50 mL	
		Potential R4	6.94 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	6.601 mL	OK
		Consumption 4.2 R3	6.672 mL	OK
		Content R5	132.020 mg/L	OK
		ALK LOW R6	130.600 mg/L	OK
44	L2434089-15	Sample size	50 mL	
		Potential R4	7.04 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	5.856 mL	OK
		Consumption 4.2 R3	6.663 mL	OK
		Content R5	117.120 mg/L	OK
		ALK LOW R6	100.980 mg/L	OK
45	L2434089-16	Sample size	50 mL	
		Potential R4	7.78 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	NaN mL	Not OK
		Consumption 4.2 R3	NaN mL	Not OK
		Content R5	NaN mg/L	Not OK
		ALK LOW R6	NaN mg/L	Not OK
46	L2434089-17	Sample size	50 mL	
		Potential R4	7.40 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK

Titration report

		Consumption 4.5 R2	7.662 mL	OK
		Consumption 4.2 R3	7.723 mL	OK
		Content R5	153.240 mg/L	OK
		ALK LOW R6	152.020 mg/L	OK
47	L2434089-18	Sample size	50 mL	
		Potential R4	7.28 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	5.391 mL	OK
		Consumption 4.2 R3	5.415 mL	OK
		Content R5	107.820 mg/L	OK
		ALK LOW R6	107.340 mg/L	OK
48	L2434089-19	Sample size	50 mL	
		Potential R4	6.17 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	16.270 mL	OK
		Consumption 4.2 R3	16.463 mL	OK
		Content R5	325.400 mg/L	OK
		ALK LOW R6	321.540 mg/L	OK
49	L2434091-01	Sample size	50 mL	
		Potential R4	6.10 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	NaN mL	Not OK
		Consumption 4.2 R3	NaN mL	Not OK
		Content R5	NaN mg/L	Not OK
		ALK LOW R6	NaN mg/L	Not OK
50	L2434091-02	Sample size	50 mL	
		Potential R4	6.11 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	NaN mL	Not OK
		Consumption 4.2 R3	NaN mL	Not OK
		Content R5	NaN mg/L	Not OK
		ALK LOW R6	NaN mg/L	Not OK
51	WG1938137-2	Sample size	50 mL	
		Potential R4	11.05 pH	OK
		Consumption 8.3 R1	5.003 mL	OK
		Consumption 4.5 R2	5.378 mL	OK
		Consumption 4.2 R3	5.378 mL	OK
		Content R5	107.560 mg/L	OK
		ALK LOW R6	107.560 mg/L	OK
52	WG1938137-1	Sample size	50 mL	
		Potential R4	5.18 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	0.123 mL	OK
		Consumption 4.2 R3	0.175 mL	OK
		Content R5	2.460 mg/L	OK
		ALK LOW R6	1.420 mg/L	OK
53	L2434091-03	Sample size	50 mL	

Titration report

		Potential R4	6.09 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	NaN mL	Not OK
		Consumption 4.2 R3	NaN mL	Not OK
		Content R5	NaN mg/L	Not OK
		ALK LOW R6	NaN mg/L	Not OK
54	WG1938137-3	Sample size	50 mL	
		Potential R4	6.20 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	NaN mL	Not OK
		Consumption 4.2 R3	NaN mL	Not OK
		Content R5	NaN mg/L	Not OK
		ALK LOW R6	NaN mg/L	Not OK
55	WG1938137-4	Sample size	50 mL	
		Potential R4	6.40 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	NaN mL	Not OK
		Consumption 4.2 R3	NaN mL	Not OK
		Content R5	NaN mg/L	Not OK
		ALK LOW R6	NaN mg/L	Not OK
56	L2434091-04	Sample size	50 mL	
		Potential R4	3.84 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	NaN mL	Not OK
		Consumption 4.2 R3	NaN mL	Not OK
		Content R5	NaN mg/L	Not OK
		ALK LOW R6	NaN mg/L	Not OK
57	L2434591-01	Sample size	50 mL	
		Potential R4	7.20 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	13.500 mL	OK
		Consumption 4.2 R3	13.662 mL	OK
		Content R5	270.000 mg/L	OK
		ALK LOW R6	266.760 mg/L	OK
58	L2434593-01	Sample size	50 mL	
		Potential R4	6.87 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	4.906 mL	OK
		Consumption 4.2 R3	4.962 mL	OK
		Content R5	98.120 mg/L	OK
		ALK LOW R6	97.000 mg/L	OK
59	L2434595-01	Sample size	50 mL	
		Potential R4	7.03 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	6.902 mL	OK
		Consumption 4.2 R3	6.983 mL	OK
		Content R5	138.040 mg/L	OK

Titration report

		ALK LOW R6	136.420 mg/L	OK
60	L2434656-01	Sample size	50 mL	
		Potential R4	6.30 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	3.605 mL	OK
		Consumption 4.2 R3	3.630 mL	OK
		Content R5	72.100 mg/L	OK
		ALK LOW R6	71.600 mg/L	OK
61	L2434679-01	Sample size	50 mL	
		Potential R4	5.42 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	0.661 mL	OK
		Consumption 4.2 R3	0.675 mL	OK
		Content R5	13.220 mg/L	OK
		ALK LOW R6	12.940 mg/L	OK
62	L2434679-02	Sample size	50 mL	
		Potential R4	5.93 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	3.219 mL	OK
		Consumption 4.2 R3	3.241 mL	OK
		Content R5	64.380 mg/L	OK
		ALK LOW R6	63.940 mg/L	OK
63	L2434679-03	Sample size	50 mL	
		Potential R4	6.14 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	7.517 mL	OK
		Consumption 4.2 R3	7.611 mL	OK
		Content R5	150.340 mg/L	OK
		ALK LOW R6	148.460 mg/L	OK
64	L2434679-04	Sample size	50 mL	
		Potential R4	6.30 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	12.719 mL	OK
		Consumption 4.2 R3	12.872 mL	OK
		Content R5	254.380 mg/L	OK
		ALK LOW R6	251.320 mg/L	OK
65	L2434679-05	Sample size	50 mL	
		Potential R4	5.79 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	2.435 mL	OK
		Consumption 4.2 R3	2.473 mL	OK
		Content R5	48.700 mg/L	OK
		ALK LOW R6	47.940 mg/L	OK
66	L2434679-06	Sample size	50 mL	
		Potential R4	5.90 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	2.470 mL	OK

Titration report

		Consumption 4.2 R3	2.492 mL	OK
		Content R5	49.400 mg/L	OK
		ALK LOW R6	48.960 mg/L	OK
67	L2434679-07	Sample size	50 mL	
		Potential R4	5.68 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	1.599 mL	OK
		Consumption 4.2 R3	1.624 mL	OK
		Content R5	31.980 mg/L	OK
		ALK LOW R6	31.480 mg/L	OK
68	L2434679-08	Sample size	50 mL	
		Potential R4	5.76 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	2.248 mL	OK
		Consumption 4.2 R3	2.270 mL	OK
		Content R5	44.960 mg/L	OK
		ALK LOW R6	44.520 mg/L	OK
69	L2434679-09	Sample size	50 mL	
		Potential R4	6.16 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	4.817 mL	OK
		Consumption 4.2 R3	4.862 mL	OK
		Content R5	96.340 mg/L	OK
		ALK LOW R6	95.440 mg/L	OK
70	L2434679-10	Sample size	50 mL	
		Potential R4	5.48 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	0.643 mL	OK
		Consumption 4.2 R3	0.658 mL	OK
		Content R5	12.860 mg/L	OK
		ALK LOW R6	12.560 mg/L	OK
71	L2434679-11	Sample size	50 mL	
		Potential R4	5.78 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	2.199 mL	OK
		Consumption 4.2 R3	2.221 mL	OK
		Content R5	43.980 mg/L	OK
		ALK LOW R6	43.540 mg/L	OK
72	L2434679-14	Sample size	50 mL	
		Potential R4	6.09 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	3.426 mL	OK
		Consumption 4.2 R3	3.454 mL	OK
		Content R5	68.520 mg/L	OK
		ALK LOW R6	67.960 mg/L	OK
73	L2434697-01	Sample size	50 mL	
		Potential R4	5.57 pH	OK

Titration report

		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	1.626 mL	OK
		Consumption 4.2 R3	1.684 mL	OK
		Content R5	32.520 mg/L	OK
		ALK LOW R6	31.360 mg/L	OK
74	L2434697-02	Sample size	50 mL	
		Potential R4	5.30 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	0.732 mL	OK
		Consumption 4.2 R3	0.783 mL	OK
		Content R5	14.640 mg/L	OK
		ALK LOW R6	13.620 mg/L	OK
75	L2434091-03 2.5x+5	Sample size	50 mL	
		Potential R4	5.68 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	3.424 mL	OK
		Consumption 4.2 R3	3.461 mL	OK
		Content R5	68.480 mg/L	OK
		ALK LOW R6	67.740 mg/L	OK
76	WG1938137-3 2.5x+5	Sample size	50 mL	
		Potential R4	5.70 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	3.766 mL	OK
		Consumption 4.2 R3	3.782 mL	OK
		Content R5	75.320 mg/L	OK
		ALK LOW R6	75.000 mg/L	OK
77	WG1938137-4 2.5x+5	Sample size	50 mL	
		Potential R4	6.20 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	7.886 mL	OK
		Consumption 4.2 R3	7.941 mL	OK
		Content R5	157.720 mg/L	OK
		ALK LOW R6	156.620 mg/L	OK
78	L2432309-04 2.5x+5	Sample size	50 mL	
		Potential R4	5.15 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	3.631 mL	OK
		Consumption 4.2 R3	4.187 mL	OK
		Content R5	72.620 mg/L	OK
		ALK LOW R6	61.500 mg/L	OK
79	L2432309-05 2.5x+5	Sample size	50 mL	
		Potential R4	5.10 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	9.384 mL	OK
		Consumption 4.2 R3	12.951 mL	OK
		Content R5	187.680 mg/L	OK
		ALK LOW R6	116.340 mg/L	OK

Titration report

80	L2432309-07 2.5x+5	Sample size	50 mL	
		Potential R4	-1.08 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	NaN mL	Not OK
		Consumption 4.2 R3	NaN mL	Not OK
		Content R5	NaN mg/L	Not OK
		ALK LOW R6	NaN mg/L	Not OK
81	L2432309-08 2.5x+5	Sample size	50 mL	
		Potential R4	4.54 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	NaN mL	Not OK
		Consumption 4.2 R3	0.000 mL	OK
		Content R5	NaN mg/L	Not OK
		ALK LOW R6	NaN mg/L	Not OK
82	L2432309-07 2x	Sample size	50 mL	
		Potential R4	1.75 pH	OK
		Consumption 8.3 R1	5.259 mL	OK
		Consumption 4.5 R2	0.002 mL	OK
		Consumption 4.2 R3	0.000 mL	OK
		Content R5	0.040 mg/L	OK
		ALK LOW R6	0.080 mg/L	OK
83	WG1938137-2	Sample size	50 mL	
		Potential R4	10.88 pH	OK
		Consumption 8.3 R1	4.926 mL	OK
		Consumption 4.5 R2	5.256 mL	OK
		Consumption 4.2 R3	5.256 mL	OK
		Content R5	105.120 mg/L	OK
		ALK LOW R6	105.120 mg/L	OK
84	WG1938137-1	Sample size	50 mL	
		Potential R4	5.17 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	0.076 mL	OK
		Consumption 4.2 R3	0.094 mL	OK
		Content R5	1.520 mg/L	OK
		ALK LOW R6	1.160 mg/L	OK
85	--	Sample size	50 mL	

Statistics

R1

Mean	NaN mL		
Maximum	5.259 mL	**Minimum**	1.158 mL
Standard deviation	NaN mL	**Rel. standard deviation**	NaN %
Total samples	84	**Samples excluded**	0

R2

Titration report

Mean	NaN mL		
Maximum	19.595 mL	**Minimum**	0.002 mL
Standard deviation	NaN mL	**Rel. standard deviation**	NaN %
Total samples	84	**Samples excluded**	0

R3

Mean	NaN mL		
Maximum	19.912 mL	**Minimum**	0.000 mL
Standard deviation	NaN mL	**Rel. standard deviation**	NaN %
Total samples	84	**Samples excluded**	0

R4

Mean	6.28 pH		
Maximum	11.05 pH	**Minimum**	-1.08 pH
Standard deviation	1.70 pH	**Rel. standard deviation**	27.010 %
Total samples	84	**Samples excluded**	0

R5

Mean	NaN mg/L		
Maximum	391.900 mg/L	**Minimum**	0.040 mg/L
Standard deviation	NaN mg/L	**Rel. standard deviation**	NaN %
Total samples	84	**Samples excluded**	0

R6

Mean	NaN mg/L		
Maximum	385.560 mg/L	**Minimum**	-0.360 mg/L
Standard deviation	NaN mg/L	**Rel. standard deviation**	NaN %
Total samples	84	**Samples excluded**	0

Used Instruments

Name	T7 Excellence Titrator	**Serial number**	C329519495

Responsible User

Time	Login name	Full name
6/23/2024 9:02:54 AM	SystemInternal	System internal account

Titration report

Method

Method ID	pH Cal. 7 4 10	**Release state**	Released
Name	Calibration	**Modified by**	SystemInternal
Modified on	10/3/2023 12:47:09 PM		

Summary

Samples

	Sample ID	Name	Result	State
1	METTLER TOLEDO (Ref. 25°C) pH	pH	7.00	
2	METTLER TOLEDO (Ref. 25°C) pH	pH	4.01	
3	METTLER TOLEDO (Ref. 25°C) pH	pH	10.00	

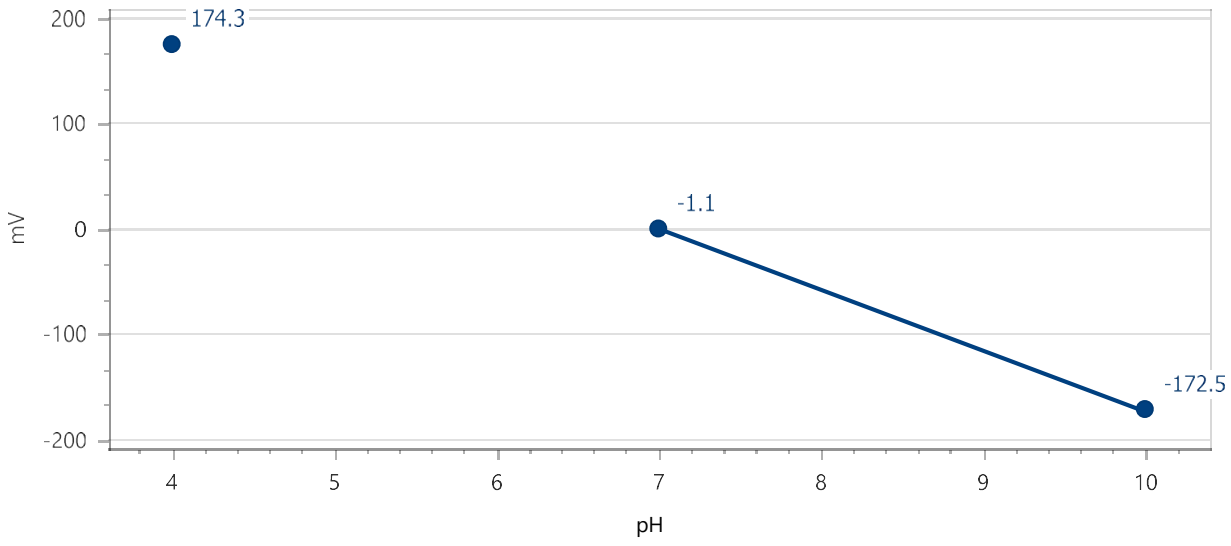
Results

Zero point 1 Cal1.Z1	7.007 pH
Slope 1 Cal1.S1	-57.90 mV/pH

Calibration

Sensor	Sensor DG111-SC
Creation time	6/23/2024 8:44:02 AM
Overall state	OK
Successful	Yes
Calib. temperature	25.0 °C
SLOPECal	-57.90 mV/pH
ZEROCal	7.007 pH

Calibration Curve



Used Instruments

Titration report

Name	T7 Excellence Titrator	**Serial number**	C329519495

Responsible User

Time	Login name	Full name
6/23/2024 8:39:33 AM	SystemInternal	System internal account

Titration report

Method

Method ID	pH Measure	**Release state**	Released
Name	Measure	**Modified by**	SystemInternal
Modified on	2/23/2024 9:31:05 AM		

Summary

Samples

	Sample ID	Name	Result	State
1	--	Sample size	0 mL	
		Potential R1	7.03 pH	OK

Used Instruments

Name	T7 Excellence Titrator	**Serial number**	C329519495

Responsible User

Time	Login name	Full name
6/23/2024 8:39:42 AM	SystemInternal	System internal account

Quality Control

Form 5a
Matrix Spike

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Client Sample ID	: NA	**Matrix**	: DW
Lab Sample ID	: L2434091-03		
Matrix Spike	: WG1938137-4	**MS Analysis Date**	: 06/23/24 15:11
Matrix Spike Dup	:	**MSD Analysis Date**	:

		Matrix Spike Sample			Matrix Spike Duplicate					
	Sample Conc.	Spike Added	Spike Conc.	%R	Spike Added	Spike Conc.	%R	RPD	Recovery Limits	RPD Limit
Parameter	(mg CaCO3/L)	(mg CaCO3/L)	(mg CaCO3/L)		(mg CaCO3/L)	(mg CaCO3/L)				
Alkalinity, Total	421.	250	644.	89					86-116	10

Form 6
Lab Duplicates

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Client Sample ID	: NA	**Matrix**	: DW
Lab Sample ID	: NA	**Analysis Date**	: 06/23/24 15:05
Dup Sample ID	: WG1938137-3	**DUP Analysis Date**	: 06/23/24 15:08

Parameter	Sample Concentration (mg CaCO3/L)	Duplicate Concentration (mg CaCO3/L)	RPD	RPD Limit
Alkalinity, Total	421	438.	4	10

Form 7
Laboratory Control Sample

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Client Sample ID	: NA	**Matrix**	: DW
Lab Sample ID	: WG1938137-2	**LCS Analysis Date**	: 06/23/24 13:37
Dup Sample ID	:	**LCSD Analysis Date**	:

	Laboratory Control Sample			Laboratory Control Duplicate					
	True	Found	%R	True	Found	%R	RPD	Recovery	RPD
Parameter	(mg CaCO3/L)	(mg CaCO3/L)		(mg CaCO3/L)	(mg CaCO3/L)			Limits	Limit
Alkalinity, Total	100.	108.	108.					90-110	10

Date Created: 11/11/21
Created By: Jason Hebert
File: PM11467-1
Page: 1

WETCHEM (WATER)

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Method	Holding Time	Container/Sample Preservation
Alkalinity, Total	471-34-1	2		mg CaCO3/L	90-110	10	86-116	10	10	2320B	14 days	1 - Plastic 250ml unpreserved/No Headspace

Please Note that the RL information provided in this table is calculated using a 100% Solids factor. (Soil/Solids only)
Please Note that the information provided in this table is subject to change at anytime at the discretion of Alpha Analytical, Inc.

Calculations of Alkalinity

$$\text{Alkalinity, mg } CaCO_3/L = \frac{A \times N \times 50{,}000}{\text{mL Sample}}$$

Where:

A = mL of the standard acid titrated

N = normality of the standard acid

Results are calculated using Mettler Toledo software.

Standard sample size is 50mL, 0.02N Sulfuric acid for titration

Sequence Logs

CAL	240623	LCS 7.03	7.03	INT:	mrw
pH 4	3295	Titrant:	4180		
pH 7	3386	LCS:	3257		
pH 10	3298	MS:	3255		
LCS	3409				

1	Rinse	42	L2434089-13	83	ccv
2	Rinse	43	L2434089-14	84	ccb
3	blank	44	L2434089-15		
4	lcs	45	L2434089-16		
5	L2432309-01	46	L2434089-17		
6	dup	47	L2434089-18		
7	ms	48	L2434089-19		
8	L2432309-02	49	L2434091-01		
9	L2432309-03	50	L2434091-02		
10	L2432309-04	51	ccv		
11	L2432309-05	52	ccb		
12	L2432309-06	53	L2434091-03		
13	L2432309-07	54	dup		
14	L2432309-08	55	ms		
15	L2432309-09	56	L2434091-04		
16	L2432309-10	57	L2434591-01		
17	L2433992-01	58	L2434593-01		
18	L2434044-01	59	L2434595-01		
19	L2434044-02	60	L2434656-01		
20	L2434089-01	61	L2434679-01		
21	L2434089-02	62	L2434679-02		
22	L2434089-03	63	L2434679-03		
23	L2434089-05	64	L2434679-04		
24	L2434089-06	65	L2434679-05		
25	L2434089-07	66	L2434679-06		
26	L2434089-08	67	L2434679-07		
27	ccv	68	L2434679-08		
28	ccb	69	L2434679-09		
29	L2434089-09	70	L2434679-10		
30	dup	71	L2434679-11		
31	ms	72	L2434679-14		
32	L2434089-10	73	L2434697-01		
33	L2434089-11	74	L2434697-02		
34	L2434089-12	75	L2434091-03 2.5x+5		
35	L2434086-01	76	dup 2.5x+5		
36	L2434086-02	77	ms 2.5x+5		
37	L2434086-03	78	L2432309-04 2.5x+5		
38	L2434086-04	79	L2432309-05 2.5x+5		
39	L2434086-05	80	L2432309-07 2.5x+5		
40	L2434086-06	81	L2432309-08 2.5x+5		
41	L2434086-07	82	L2432309-07 2x		

Phosphates Analysis

Results

Form 1
WETCHEM

Client	:	**Alpha Geoscience**	**Lab Number**	:	**L2434679**
Project Name	:	**RANCO MINE**	**Project Number**	:	**12123**
Lab ID	:	**L2434679-01**	**Date Collected**	:	**06/19/24 09:30**
Client ID	:	**MW-3A**	**Date Received**	:	**06/19/24**
Sample Location	:	**MANORVILLE, NY**	**Date Analyzed**	:	**06/25/24 13:17**
Sample Matrix	:	**WATER**	**Dilution Factor**	:	**1**
Analytical Method	:	**121,4500P-E(M)**	**Analyst**	:	**EYA**
Lab File ID	:	**PHOS062524-WG1938916,943.**	**Instrument ID**	:	**SEAL**
Sample Amount	:		**%Solids**	:	**N/A**
Digestion Method	:		**Date Digested**	:	**06/25/24**

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7723-14-0	**Phosphate, Total**	**0.025**	**0.031**	**0.012**	**J**

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Lab ID	: L2434679-02	**Date Collected**	: 06/18/24 16:35
Client ID	: MW-6A	**Date Received**	: 06/19/24
Sample Location	: MANORVILLE, NY	**Date Analyzed**	: 06/25/24 13:18
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,4500P-E(M)	**Analyst**	: EYA
Lab File ID	: PHOS062524-WG1938916,943.	**Instrument ID**	: SEAL
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 06/25/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7723-14-0	Phosphate, Total	0.172	0.031	0.012	

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Lab ID	: L2434679-03	**Date Collected**	: 06/18/24 14:50
Client ID	: MW-6B	**Date Received**	: 06/19/24
Sample Location	: MANORVILLE, NY	**Date Analyzed**	: 06/25/24 13:19
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,4500P-E(M)	**Analyst**	: EYA
Lab File ID	: PHOS062524-WG1938916,943.	**Instrument ID**	: SEAL
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 06/25/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7723-14-0	Phosphate, Total	0.031	0.031	0.012	

Form 1
WETCHEM

Client	:	**Alpha Geoscience**	**Lab Number**	:	**L2434679**
Project Name	:	**RANCO MINE**	**Project Number**	:	**12123**
Lab ID	:	**L2434679-04**	**Date Collected**	:	**06/18/24 14:49**
Client ID	:	**MW-6C**	**Date Received**	:	**06/19/24**
Sample Location	:	**MANORVILLE, NY**	**Date Analyzed**	:	**06/25/24 13:21**
Sample Matrix	:	**WATER**	**Dilution Factor**	:	**1**
Analytical Method	:	**121,4500P-E(M)**	**Analyst**	:	**EYA**
Lab File ID	:	**PHOS062524-WG1938916,943.**	**Instrument ID**	:	**SEAL**
Sample Amount	:		**%Solids**	:	**N/A**
Digestion Method	:		**Date Digested**	:	**06/25/24**

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7723-14-0	**Phosphate, Total**	**0.080**	**0.031**	**0.012**	

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Lab ID	: L2434679-05	**Date Collected**	: 06/18/24 10:15
Client ID	: MW-7A	**Date Received**	: 06/19/24
Sample Location	: MANORVILLE, NY	**Date Analyzed**	: 06/25/24 13:22
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,4500P-E(M)	**Analyst**	: EYA
Lab File ID	: PHOS062524-WG1938916,943.	**Instrument ID**	: SEAL
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 06/25/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7723-14-0	Phosphate, Total	0.058	0.031	0.012	

Form 1
WETCHEM

Client	:	**Alpha Geoscience**	**Lab Number**	:	**L2434679**
Project Name	:	**RANCO MINE**	**Project Number**	:	**12123**
Lab ID	:	**L2434679-06**	**Date Collected**	:	**06/18/24 12:05**
Client ID	:	**MW-7B**	**Date Received**	:	**06/19/24**
Sample Location	:	**MANORVILLE, NY**	**Date Analyzed**	:	**06/25/24 13:25**
Sample Matrix	:	**WATER**	**Dilution Factor**	:	**1**
Analytical Method	:	**121,4500P-E(M)**	**Analyst**	:	**EYA**
Lab File ID	:	**PHOS062524-WG1938916,943.**	**Instrument ID**	:	**SEAL**
Sample Amount	:		**%Solids**	:	**N/A**
Digestion Method	:		**Date Digested**	:	**06/25/24**

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7723-14-0	**Phosphate, Total**	**0.117**	**0.031**	**0.012**	

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Lab ID	: L2434679-07	**Date Collected**	: 06/18/24 12:12
Client ID	: MW-7C	**Date Received**	: 06/19/24
Sample Location	: MANORVILLE, NY	**Date Analyzed**	: 06/25/24 13:26
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,4500P-E(M)	**Analyst**	: EYA
Lab File ID	: PHOS062524-WG1938916,943.	**Instrument ID**	: SEAL
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 06/25/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7723-14-0	Phosphate, Total	0.037	0.031	0.012	

Form 1
WETCHEM

Client	:	Alpha Geoscience	**Lab Number**	:	L2434679
Project Name	:	RANCO MINE	**Project Number**	:	12123
Lab ID	:	L2434679-08	**Date Collected**	:	06/18/24 16:47
Client ID	:	MW-8A	**Date Received**	:	06/19/24
Sample Location	:	MANORVILLE, NY	**Date Analyzed**	:	06/25/24 13:27
Sample Matrix	:	WATER	**Dilution Factor**	:	1
Analytical Method	:	121,4500P-E(M)	**Analyst**	:	EYA
Lab File ID	:	PHOS062524-WG1938916,943.	**Instrument ID**	:	SEAL
Sample Amount	:		**%Solids**	:	N/A
Digestion Method	:		**Date Digested**	:	06/25/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7723-14-0	Phosphate, Total	0.031	0.031	0.012	

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Lab ID	: L2434679-09	**Date Collected**	: 06/18/24 18:25
Client ID	: MW-8B	**Date Received**	: 06/19/24
Sample Location	: MANORVILLE, NY	**Date Analyzed**	: 06/25/24 13:29
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,4500P-E(M)	**Analyst**	: EYA
Lab File ID	: PHOS062524-WG1938916,943.	**Instrument ID**	: SEAL
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 06/25/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7723-14-0	Phosphate, Total	0.049	0.031	0.012	

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Lab ID	: L2434679-10	**Date Collected**	: 06/19/24 11:00
Client ID	: MW-9B	**Date Received**	: 06/19/24
Sample Location	: MANORVILLE, NY	**Date Analyzed**	: 06/25/24 13:30
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,4500P-E(M)	**Analyst**	: EYA
Lab File ID	: PHOS062524-WG1938916,943.	**Instrument ID**	: SEAL
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 06/25/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7723-14-0	Phosphate, Total	0.046	0.031	0.012	

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Lab ID	: L2434679-11	**Date Collected**	: 06/18/24 00:00
Client ID	: DUP	**Date Received**	: 06/19/24
Sample Location	: MANORVILLE, NY	**Date Analyzed**	: 06/25/24 13:31
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,4500P-E(M)	**Analyst**	: EYA
Lab File ID	: PHOS062524-WG1938916,943.	**Instrument ID**	: SEAL
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 06/25/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7723-14-0	Phosphate, Total	0.028	0.031	0.012	J

Form 1
WETCHEM

Client	:	Alpha Geoscience	**Lab Number**	:	L2434679
Project Name	:	RANCO MINE	**Project Number**	:	12123
Lab ID	:	L2434679-14	**Date Collected**	:	06/18/24 18:07
Client ID	:	MW-8B2	**Date Received**	:	06/19/24
Sample Location	:	MANORVILLE, NY	**Date Analyzed**	:	06/25/24 13:32
Sample Matrix	:	WATER	**Dilution Factor**	:	1
Analytical Method	:	121,4500P-E(M)	**Analyst**	:	EYA
Lab File ID	:	PHOS062524-WG1938916,943.	**Instrument ID**	:	SEAL
Sample Amount	:		**%Solids**	:	N/A
Digestion Method	:		**Date Digested**	:	06/25/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7723-14-0	Phosphate, Total	0.077	0.031	0.012	

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Lab ID	: WG1938916-1	**Date Collected**	: NA
Client ID	: WG1938916-1BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 06/25/24 13:15
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,4500P-E(M)	**Analyst**	: EYA
Lab File ID	: PHOS062524-WG1938916,943.	**Instrument ID**	: SEAL
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 06/25/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7723-14-0	Phosphate, Total	0.012	0.031	0.012	J

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Lab ID	: WG1938916-3	**Date Collected**	: 06/19/24 12:30
Client ID	: WG1938916-3 DUP	**Date Received**	: 06/20/24
Sample Location	:	**Date Analyzed**	: 06/25/24 13:35
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,4500P-E(M)	**Analyst**	: EYA
Lab File ID	: PHOS062524-WG1938916,943.	**Instrument ID**	: SEAL
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 06/25/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7723-14-0	Phosphate, Total	0.095	0.031	0.012	

Sample Raw Data

Logo

AQ-2 Tray Report

Serial Number:	090856
Report Requested By:	EASAMOAH
Date & Time:	25-Jun-2024 13:48:07
Tray Number:	1
Tray Name:	WG1938916,943

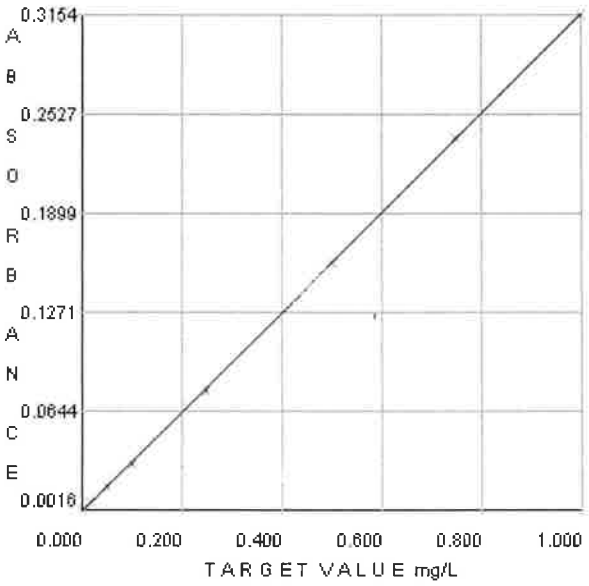
T-Phos 1

Calibration Chart

Type	Observed	Calculated	Target	% Error
S1	0.0016	0.004	0.000	
S90	0.0070	0.021	0.020	2.89
S91	0.0165	0.051	0.050	1.30
S92	0.0314	0.098	0.100	-2.11
S93	0.0776	0.244	0.250	-2.20
S94	0.1584	0.500	0.500	0.07
S95	0.2385	0.754	0.750	0.58
S96	0.3154	0.998	1.000	-0.19
S0	0.0015	0.003	0.000	

Polynomial Order:	1
Correlation Coefficient:	1.0000
Carryover(%):	-0.0
Calibration Equation:	y = bx + a
y =:	Concentration mg/L
x =:	Measured Absorbance
a =:	-1.499197E-003
b =:	3.169119E+000
Date & Time:	25-Jun-2024 13:11:58

Calibration Graph



Reagents

Name	Batch	Prepared By	Expiry Date
TP color	062524-tp color	Maeve Flaherty	16-Jul-2024 22:00:00
TP ascorbic	061924-aa	E ASAMOAH	26-Jun-2024 22:00:00

Test Results

Cup	Type	ID	Result	Units	Raw Data	Test Dil.	Cup Dil.	User	Time/Date
	S1	STANDARD 1	0.002		0.001608			EYA	25-Jun-2024 13:02:56
	S90	STANDARD 90	0.007		0.006967			EYA	25-Jun-2024 13:04:03
	S91	STANDARD 91	0.016		0.016455			EYA	25-Jun-2024 13:05:10
	S92	STANDARD 92	0.031		0.031362			EYA	25-Jun-2024 13:06:17
	S93	STANDARD 93	0.078		0.077621			EYA	25-Jun-2024 13:07:24
	S94	STANDARD 94	0.158		0.158353			EYA	25-Jun-2024 13:08:32
	S95	STANDARD 95	0.238		0.238495			EYA	25-Jun-2024 13:09:39
	S96	STANDARD 96	0.315		0.315429			EYA	25-Jun-2024 13:10:49
	S0	STANDARD 0	0.001		0.001465			EYA	25-Jun-2024 13:11:58
2	ICV	ICV	0.485	mg/L	0.153637			EYA	25-Jun-2024 13:13:06
3	ICB	ICB	0.003	mg/L	0.001552			EYA	25-Jun-2024 13:14:14
4	U1	WG1938916-1O	0.004ELL	mg/L	0.001595			EYA	25-Jun-2024 13:15:22

5	U2	WG1938916-2O	0.483	mg/L	0.152828		EYA	25-Jun-2024 13:16:30
6	U3	L2434679-01O	0.008	mg/L	0.003108		EYA	25-Jun-2024 13:17:38
7	U4	L2434679-02O	0.056	mg/L	0.018171		EYA	25-Jun-2024 13:18:46
8	U5	L2434679-03O	0.010	mg/L	0.003536		EYA	25-Jun-2024 13:19:54
9	U6	L2434679-04O	0.026	mg/L	0.008532		EYA	25-Jun-2024 13:21:02
10	U7	L2434679-05O	0.019	mg/L	0.006414		EYA	25-Jun-2024 13:22:10
	CCV	C C V	0.482	mg/L	0.152664		EYA	25-Jun-2024 13:23:18
	CCB	C C B	0.003	mg/L	0.001529		EYA	25-Jun-2024 13:24:28
11	U8	L2434679-06O	0.038	mg/L	0.012571		EYA	25-Jun-2024 13:25:38
12	U9	L2434679-07O	0.012	mg/L	0.004402		EYA	25-Jun-2024 13:26:46
13	U10	L2434679-08O	0.010	mg/L	0.003611		EYA	25-Jun-2024 13:27:53
14	U11	L2434679-09O	0.016	mg/L	0.005374		EYA	25-Jun-2024 13:29:01
15	U12	L2434679-10O	0.015	mg/L	0.005262		EYA	25-Jun-2024 13:30:09
16	U13	L2434679-11O	0.009	mg/L	0.003456		EYA	25-Jun-2024 13:31:17
17	U14	L2434679-14O	0.025	mg/L	0.008214		EYA	25-Jun-2024 13:32:24
18	U15	L2434825-01O	0.032	mg/L	0.010573		EYA	25-Jun-2024 13:33:31
19	U16	L2434825-02O	0.031	mg/L	0.010360		EYA	25-Jun-2024 13:34:41
20	U17	WG1938916-3O	0.031	mg/L	0.010203		EYA	25-Jun-2024 13:35:50
	CCV	C C V	0.486	mg/L	0.153973		EYA	25-Jun-2024 13:36:44
	CCB	C C B	0.004	mg/L	0.001702		EYA	25-Jun-2024 13:37:48
21	U18	WG1938916-4O	0.544	mg/L	0.172103		EYA	25-Jun-2024 13:38:43
22	U19	L2434830-01O	0.069	mg/L	0.022146		EYA	25-Jun-2024 13:39:36
23	U20	L2434955-01	0.899	mg/L	0.284182		EYA	25-Jun-2024 13:40:30
24	U21	L2435240-01	0.113	mg/L	0.036234		EYA	25-Jun-2024 13:41:23
25	U22	L2435240-02-2	1.733	mg/L	0.273904	x2.0000	EYA	25-Jun-2024 13:42:17
26	U23	L2435240-03	0.156	mg/L	0.049819		EYA	25-Jun-2024 13:43:10
27	U24	L2435240-04	0.498	mg/L	0.157701		EYA	25-Jun-2024 13:44:04
	CCV	C C V	0.486	mg/L	0.153739		EYA	25-Jun-2024 13:44:57
	CCB	C C B	0.005	mg/L	0.002106		EYA	25-Jun-2024 13:45:53

Quality Control

Form 5a
Matrix Spike

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Client Sample ID	: NA	**Matrix**	: WATER
Lab Sample ID	: L2434825-02		
Matrix Spike	: WG1938916-4	**MS Analysis Date**	: 06/25/24 13:38
Matrix Spike Dup	:	**MSD Analysis Date**	:

		Matrix Spike Sample			Matrix Spike Duplicate					
Parameter	Sample Conc. (mg/l)	Spike Added (mg/l)	Spike Conc. (mg/l)	%R	Spike Added (mg/l)	Spike Conc. (mg/l)	%R	RPD	Recovery Limits	RPD Limit
Phosphate, Total	0.095	1.53	1.67	103					80-120	15

Form 6
Lab Duplicates

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Client Sample ID	: NA	**Matrix**	: WATER
Lab Sample ID	: NA	**Analysis Date**	: 06/25/24 13:34
Dup Sample ID	: WG1938916-3	**DUP Analysis Date**	: 06/25/24 13:35

Parameter	Sample Concentration (mg/l)	Duplicate Concentration (mg/l)	RPD	RPD Limit
Phosphate, Total	0.095	0.095	0	15

Form 7
Laboratory Control Sample

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Client Sample ID	: NA	**Matrix**	: WATER
Lab Sample ID	: WG1938916-2	**LCS Analysis Date**	: 06/25/24 13:16
Dup Sample ID	:	**LCSD Analysis Date**	:

	Laboratory Control Sample			Laboratory Control Duplicate					
Parameter	**True (mg/l)**	**Found (mg/l)**	**%R**	**True (mg/l)**	**Found (mg/l)**	**%R**	**RPD**	**Recovery Limits**	**RPD Limit**
Phosphate, Total	**1.53**	**1.48**	**97.**					**84-118**	**15**

Date Created: 11/11/21
Created By: Jason Hebert
File: PM11467-1
Page: 1

WETCHEM (WATER)

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Method	Holding Time	Container/Sample Preservation
Phosphorus, Total	7723-14-0	0.01	0.004	mg/l	80-120		75-125	20	20	4500P-E	28 days	1 - Plastic 500ml H2SO4 preserved

Please Note that the RL information provided in this table is calculated using a 100% Solids factor. (Soil/Solids only)
Please Note that the information provided in this table is subject to change at anytime at the discretion of Alpha Analytical, Inc.

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File: PM11468-1
Page: 1

WETCHEM (SOIL)

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Method	Holding Time	Container/Sample Preservation
Phosphorus, Total	7723-14-0	5	1.67	mg/kg	52-148	20	75-125	20	20	4500P-E	28 days	1 - Glass 250ml/8oz unpreserved

Please Note that the RL information provided in this table is calculated using a 100% Solids factor. (Soil/Solids only)
Please Note that the information provided in this table is subject to change at anytime at the discretion of Alpha Analytical, Inc.

WETCHEM (WATER)

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Method	Holding Time	Container/Sample Preservation
Phosphorus, Orthophosphate	7723-14-0	0.005	0.001	mg/l	90-110		80-120	20	20	4500P-E	48 hours	1 - Plastic 500ml unpreserved

Please Note that the RL information provided in this table is calculated using a 100% Solids factor. (Soil/Solids only)
Please Note that the information provided in this table is subject to change at anytime at the discretion of Alpha Analytical, Inc.

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File: PM11468-1
Page: 1

WETCHEM (SOIL)

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Method	Holding Time	Container/Sample Preservation
Phosphorus, Orthophosphate	7723-14-0	0.05	0.05	mg/kg						4500P-E	48 hours	1 - Glass 250ml/8oz unpreserved

Please Note that the RL information provided in this table is calculated using a 100% Solids factor. (Soil/Solids only)
Please Note that the information provided in this table is subject to change at anytime at the discretion of Alpha Analytical, Inc.

Calculations of TPhosphorus

Aqueous samples:

Calculate the concentration value of the sample directly from the standard curve. All calculations are done by SEAL (segmant flow spectrometer).

$$\text{Mg TPhosphorus/L} = \frac{\text{absorbance - y-intercept}}{\text{slope}} \times \text{Dilution Factor}$$

Wet Chemistry
By
IC Methods

Results

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Lab ID	: L2434679-01	**Date Collected**	: 06/19/24 09:30
Client ID	: MW-3A	**Date Received**	: 06/19/24
Sample Location	: MANORVILLE, NY	**Date Analyzed**	: 06/25/24 12:29
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 44,300.0	**Analyst**	: CVN,
Lab File ID	: WG1939114-65-69	**Instrument ID**	: IC3
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
24959-67-9	Bromide	0.040	0.050	0.013	J
16887-00-6	Chloride	10.9	0.500	0.083	
16984-48-8	Fluoride	0.062	0.050	0.037	
14808-79-8	Sulfate	5.28	1.00	0.454	

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Lab ID	: L2434679-02	**Date Collected**	: 06/18/24 16:35
Client ID	: MW-6A	**Date Received**	: 06/19/24
Sample Location	: MANORVILLE, NY	**Date Analyzed**	: 06/25/24 12:42
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 44,300.0	**Analyst**	: CVN,
Lab File ID	: WG1939114-65-69	**Instrument ID**	: IC3
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
24959-67-9	Bromide	0.042	0.050	0.013	J
16887-00-6	Chloride	21.3	0.500	0.083	
16984-48-8	Fluoride	0.101	0.050	0.037	
14808-79-8	Sulfate	30.6	1.00	0.454	

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Lab ID	: L2434679-03	**Date Collected**	: 06/18/24 14:50
Client ID	: MW-6B	**Date Received**	: 06/19/24
Sample Location	: MANORVILLE, NY	**Date Analyzed**	: 06/25/24 12:54
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 44,300.0	**Analyst**	: CVN,
Lab File ID	: WG1939114-65-69	**Instrument ID**	: IC3
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
24959-67-9	Bromide	0.054	0.050	0.013	
16887-00-6	Chloride	21.2	0.500	0.083	
16984-48-8	Fluoride	0.089	0.050	0.037	
14808-79-8	Sulfate	21.0	1.00	0.454	

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Lab ID	: L2434679-04	**Date Collected**	: 06/18/24 14:49
Client ID	: MW-6C	**Date Received**	: 06/19/24
Sample Location	: MANORVILLE, NY	**Date Analyzed**	: 06/25/24 13:06
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 44,300.0	**Analyst**	: CVN,
Lab File ID	: WG1939114-65-69	**Instrument ID**	: IC3
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
24959-67-9	Bromide	0.092	0.050	0.013	
16887-00-6	Chloride	20.4	0.500	0.083	
16984-48-8	Fluoride	0.111	0.050	0.037	
14808-79-8	Sulfate	16.0	1.00	0.454	

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Lab ID	: L2434679-05	**Date Collected**	: 06/18/24 10:15
Client ID	: MW-7A	**Date Received**	: 06/19/24
Sample Location	: MANORVILLE, NY	**Date Analyzed**	: 06/25/24 13:54
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 44,300.0	**Analyst**	: CVN,
Lab File ID	: WG1939114-65-69	**Instrument ID**	: IC3
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
24959-67-9	Bromide	0.040	0.050	0.013	J
16887-00-6	Chloride	14.7	0.500	0.083	
16984-48-8	Fluoride	0.073	0.050	0.037	
14808-79-8	Sulfate	17.0	1.00	0.454	

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Lab ID	: L2434679-06	**Date Collected**	: 06/18/24 12:05
Client ID	: MW-7B	**Date Received**	: 06/19/24
Sample Location	: MANORVILLE, NY	**Date Analyzed**	: 06/25/24 14:06
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 44,300.0	**Analyst**	: CVN,
Lab File ID	: WG1939114-65-69	**Instrument ID**	: IC3
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
24959-67-9	Bromide	0.043	0.050	0.013	J
16887-00-6	Chloride	20.5	0.500	0.083	
16984-48-8	Fluoride	0.083	0.050	0.037	
14808-79-8	Sulfate	21.5	1.00	0.454	

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Lab ID	: L2434679-07	**Date Collected**	: 06/18/24 12:12
Client ID	: MW-7C	**Date Received**	: 06/19/24
Sample Location	: MANORVILLE, NY	**Date Analyzed**	: 06/25/24 14:18
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 44,300.0	**Analyst**	: CVN,
Lab File ID	: WG1939114-65-69	**Instrument ID**	: IC3
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
24959-67-9	Bromide	0.045	0.050	0.013	J
16887-00-6	Chloride	21.6	0.500	0.083	
16984-48-8	Fluoride	0.064	0.050	0.037	
14808-79-8	Sulfate	27.4	1.00	0.454	

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Lab ID	: L2434679-08	**Date Collected**	: 06/18/24 16:47
Client ID	: MW-8A	**Date Received**	: 06/19/24
Sample Location	: MANORVILLE, NY	**Date Analyzed**	: 06/25/24 14:30
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 44,300.0	**Analyst**	: CVN,
Lab File ID	: WG1939114-65-69	**Instrument ID**	: IC3
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
24959-67-9	Bromide	0.037	0.050	0.013	J
16887-00-6	Chloride	11.7	0.500	0.083	
16984-48-8	Fluoride	0.077	0.050	0.037	
14808-79-8	Sulfate	19.6	1.00	0.454	

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Lab ID	: L2434679-09	**Date Collected**	: 06/18/24 18:25
Client ID	: MW-8B	**Date Received**	: 06/19/24
Sample Location	: MANORVILLE, NY	**Date Analyzed**	: 06/25/24 14:42
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 44,300.0	**Analyst**	: CVN,
Lab File ID	: WG1939114-65-69	**Instrument ID**	: IC3
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
24959-67-9	Bromide	0.045	0.050	0.013	J
16887-00-6	Chloride	21.5	0.500	0.083	
16984-48-8	Fluoride	0.131	0.050	0.037	
14808-79-8	Sulfate	23.9	1.00	0.454	

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Lab ID	: L2434679-10	**Date Collected**	: 06/19/24 11:00
Client ID	: MW-9B	**Date Received**	: 06/19/24
Sample Location	: MANORVILLE, NY	**Date Analyzed**	: 06/25/24 14:54
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 44,300.0	**Analyst**	: CVN,
Lab File ID	: WG1939114-65-69	**Instrument ID**	: IC3
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
24959-67-9	Bromide	0.064	0.050	0.013	
16887-00-6	Chloride	10.9	0.500	0.083	
16984-48-8	Fluoride	0.055	0.050	0.037	
14808-79-8	Sulfate	20.1	1.00	0.454	

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Lab ID	: L2434679-11	**Date Collected**	: 06/18/24 00:00
Client ID	: DUP	**Date Received**	: 06/19/24
Sample Location	: MANORVILLE, NY	**Date Analyzed**	: 06/25/24 18:56
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 44,300.0	**Analyst**	: CVN,
Lab File ID	: WG1939114-65-69	**Instrument ID**	: IC3
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
24959-67-9	Bromide	ND	0.050	0.013	U
16887-00-6	Chloride	11.6	0.500	0.083	
16984-48-8	Fluoride	0.077	0.050	0.037	
14808-79-8	Sulfate	19.4	1.00	0.454	

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Lab ID	: L2434679-14	**Date Collected**	: 06/18/24 18:07
Client ID	: MW-8B2	**Date Received**	: 06/19/24
Sample Location	: MANORVILLE, NY	**Date Analyzed**	: 06/25/24 15:19
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 44,300.0	**Analyst**	: CVN,
Lab File ID	: WG1939114-65-69	**Instrument ID**	: IC3
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
24959-67-9	Bromide	0.043	0.050	0.013	J
16887-00-6	Chloride	21.6	0.500	0.083	
16984-48-8	Fluoride	0.109	0.050	0.037	
14808-79-8	Sulfate	29.0	1.00	0.454	

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Lab ID	: WG1939114-1	**Date Collected**	: NA
Client ID	: WG1939114-1BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 06/25/24 12:05
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 44,300.0	**Analyst**	: CVN,
Lab File ID	: WG1939114-65-69	**Instrument ID**	: IC3
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
24959-67-9	Bromide	ND	0.050	0.013	U
16887-00-6	Chloride	0.234	0.500	0.083	J
16984-48-8	Fluoride	ND	0.050	0.037	U
14808-79-8	Sulfate	ND	1.00	0.454	U

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Lab ID	: WG1939114-4	**Date Collected**	: 06/19/24 09:30
Client ID	: MW-3ADUP	**Date Received**	: 06/19/24
Sample Location	:	**Date Analyzed**	: 06/25/24 15:43
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 44,300.0	**Analyst**	: CVN,
Lab File ID	: WG1939114-65-69	**Instrument ID**	: IC3
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
14808-79-8	Sulfate	5.32	1.00	0.454	
16887-00-6	Chloride	10.9	0.500	0.084	
24959-67-9	Bromide	0.039	0.050	0.013	J
16984-48-8	Fluoride	0.062	0.050	0.037	

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Lab ID	: WG1939169-1	**Date Collected**	: NA
Client ID	: WG1939169-1BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 06/25/24 12:05
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 44,300.0	**Analyst**	: CVN,
Lab File ID	: WG1939169	**Instrument ID**	: IC3
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
24959-67-9	Bromide	ND	0.050	0.013	U
16887-00-6	Chloride	0.234	0.500	0.083	J
16984-48-8	Fluoride	ND	0.050	0.037	U
14808-79-8	Sulfate	ND	1.00	0.454	U

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Lab ID	: WG1939169-4	**Date Collected**	: 06/18/24 00:00
Client ID	: DUPDUP	**Date Received**	: 06/19/24
Sample Location	:	**Date Analyzed**	: 06/25/24 18:44
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 44,300.0	**Analyst**	: CVN,
Lab File ID	: WG1939114-65-69	**Instrument ID**	: IC3
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

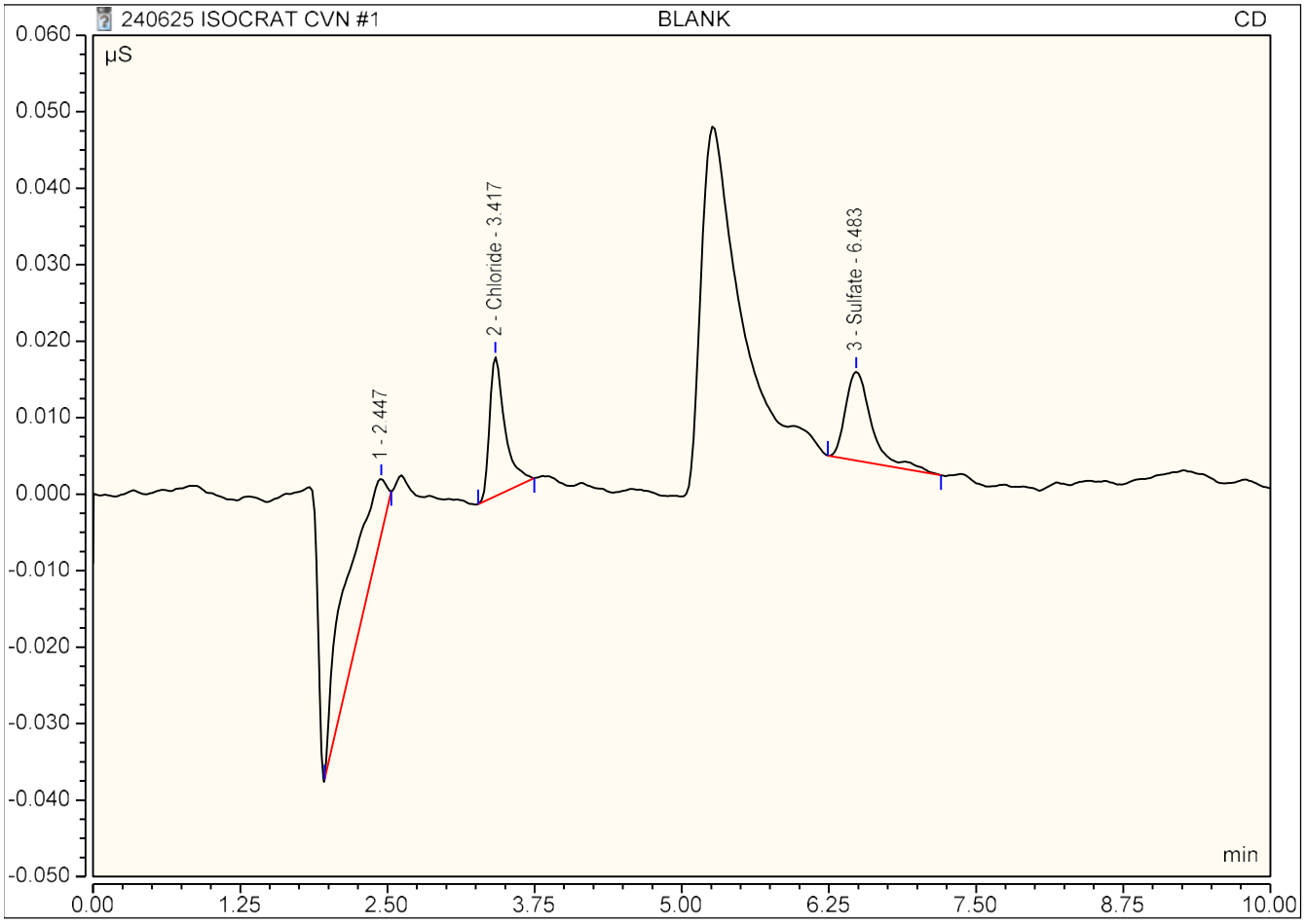
		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
14808-79-8	Sulfate	19.4	1.00	0.454	
16887-00-6	Chloride	11.6	0.500	0.084	
24959-67-9	Bromide	ND	0.050	0.013	U
16984-48-8	Fluoride	0.078	0.050	0.037	

Sample Raw Data

Peak Integration Report

Sample Name:	**BLANK**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**20-Jun-2024 / 19:16**	*Run Time:*	**10.00**

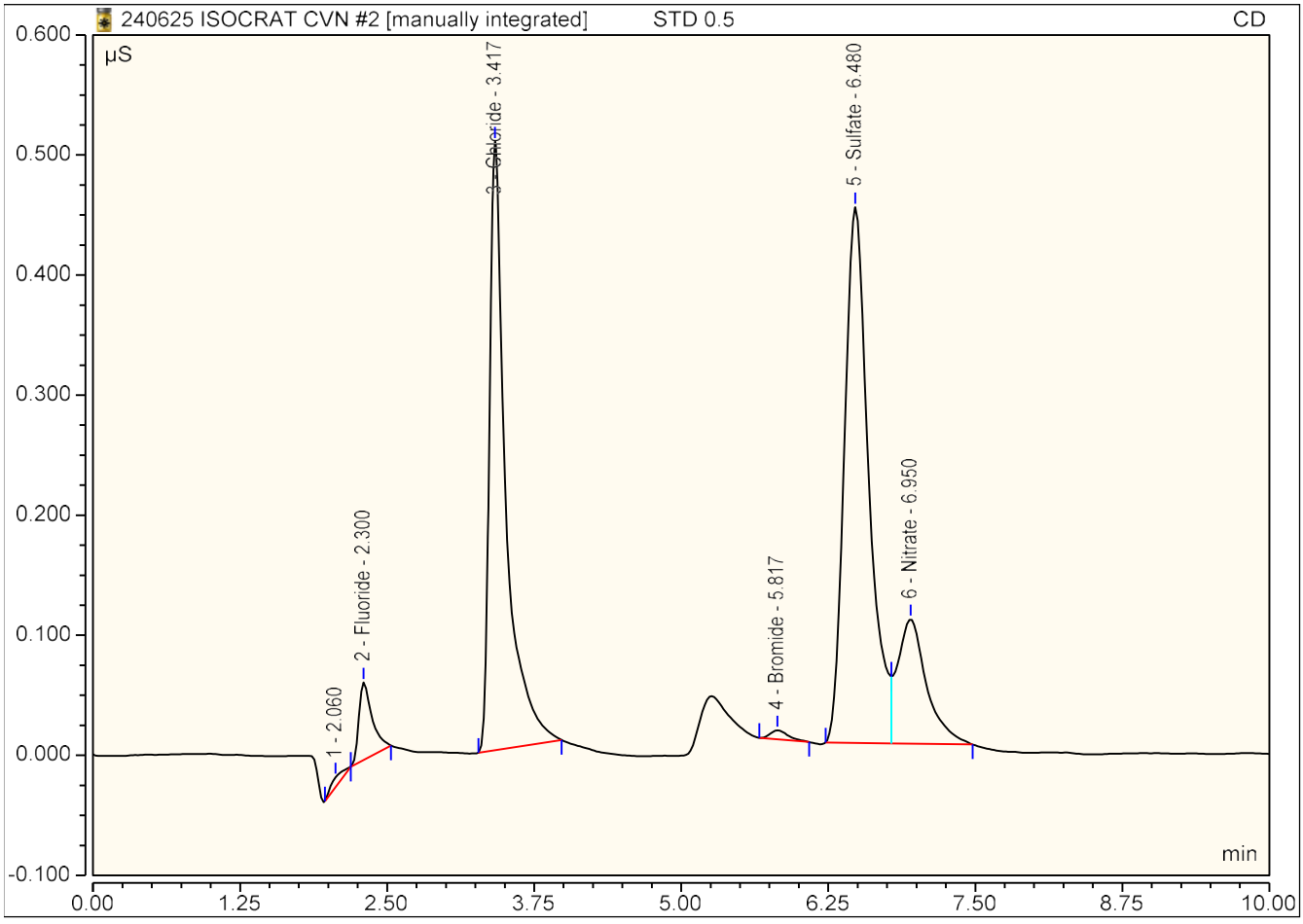
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	3.42	**Chloride**	BMB	0.003	0.018	0.2207
3	6.48	**Sulfate**	BMB	0.003	0.012	0.2430
TOTAL:				0.01	0.03	0.46



Peak Integration Report

Sample Name:	**STD 0.5**	*Inj. Vol.:*	**25.00**
Injection Type:	**Calibration Standard**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**20-Jun-2024 / 19:29**	*Run Time:*	**10.00**

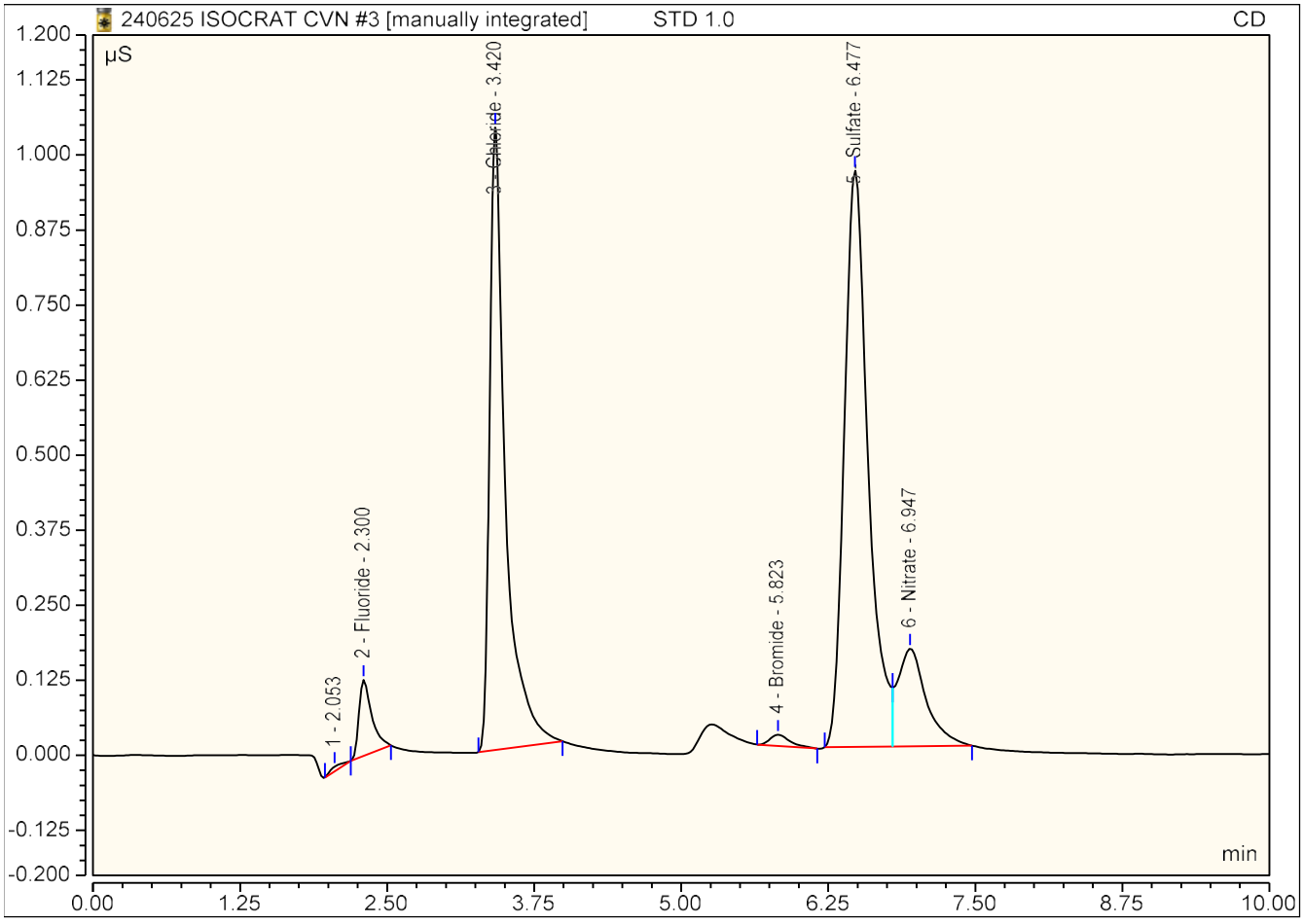
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.30	**Fluoride**	BMB	0.008	0.064	0.0627
3	3.42	**Chloride**	BMB*	0.082	0.507	0.4051
4	5.82	**Bromide**	BMB	0.001	0.007	0.0477
5	6.48	**Sulfate**	BM *	0.107	0.446	0.5886
6	6.95	**Nitrate**	MB*	0.030	0.104	0.0520
TOTAL:				0.23	1.13	1.16



Peak Integration Report

Sample Name:	**STD 1.0**	*Inj. Vol.:*	**25.00**
Injection Type:	**Calibration Standard**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**20-Jun-2024 / 19:41**	*Run Time:*	**10.00**

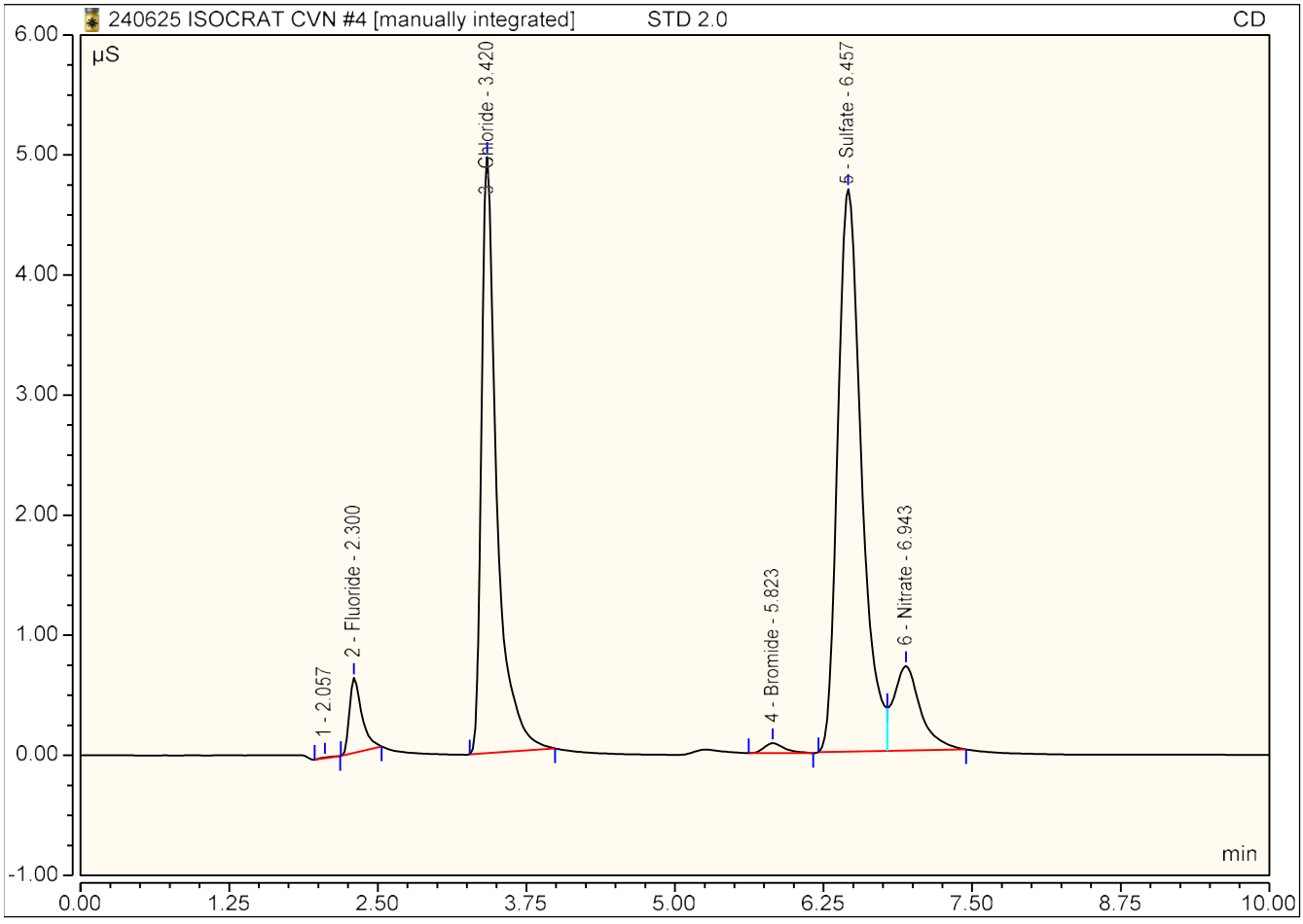
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.30	**Fluoride**	BMB	0.016	0.127	0.0765
3	3.42	**Chloride**	BMB*	0.161	1.037	0.5901
4	5.82	**Bromide**	BMB	0.004	0.019	0.0697
5	6.48	**Sulfate**	BM *	0.225	0.960	0.9801
6	6.95	**Nitrate**	MB*	0.046	0.163	0.0654
TOTAL:				0.45	2.30	1.78



Peak Integration Report

Sample Name:	**STD 2.0**	*Inj. Vol.:*	**25.00**
Injection Type:	**Calibration Standard**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**20-Jun-2024 / 19:53**	*Run Time:*	**10.00**

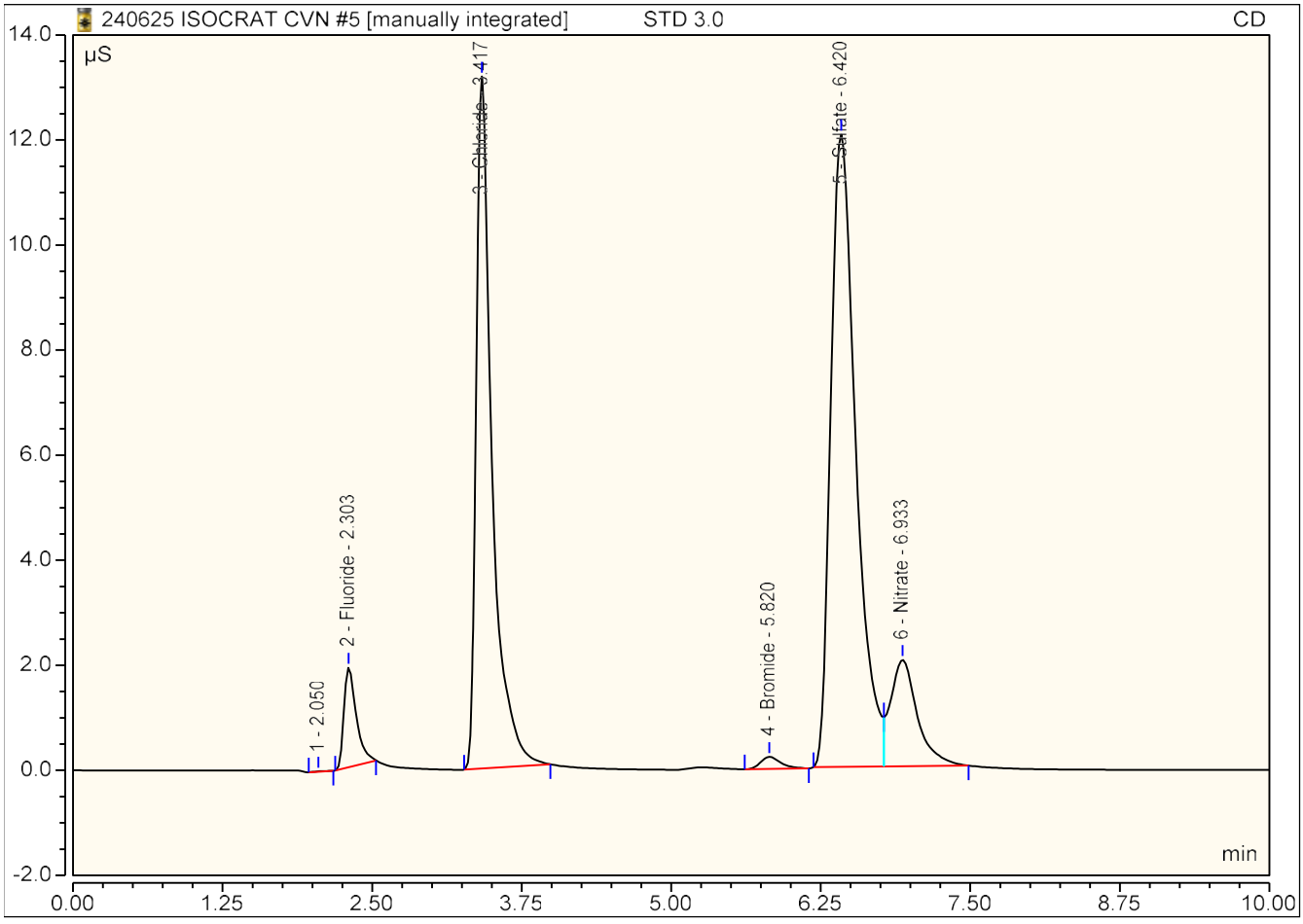
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.30	**Fluoride**	BMB	0.075	0.625	0.1819
3	3.42	**Chloride**	BMB*	0.747	4.966	1.9641
4	5.82	**Bromide**	BMB	0.017	0.083	0.1902
5	6.46	**Sulfate**	BM *	1.084	4.686	3.8369
6	6.94	**Nitrate**	MB*	0.186	0.705	0.1814
TOTAL:				2.11	11.06	6.35



Peak Integration Report

Sample Name:	**STD 3.0**	*Inj. Vol.:*	**25.00**
Injection Type:	**Calibration Standard**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**20-Jun-2024 / 20:05**	*Run Time:*	**10.00**

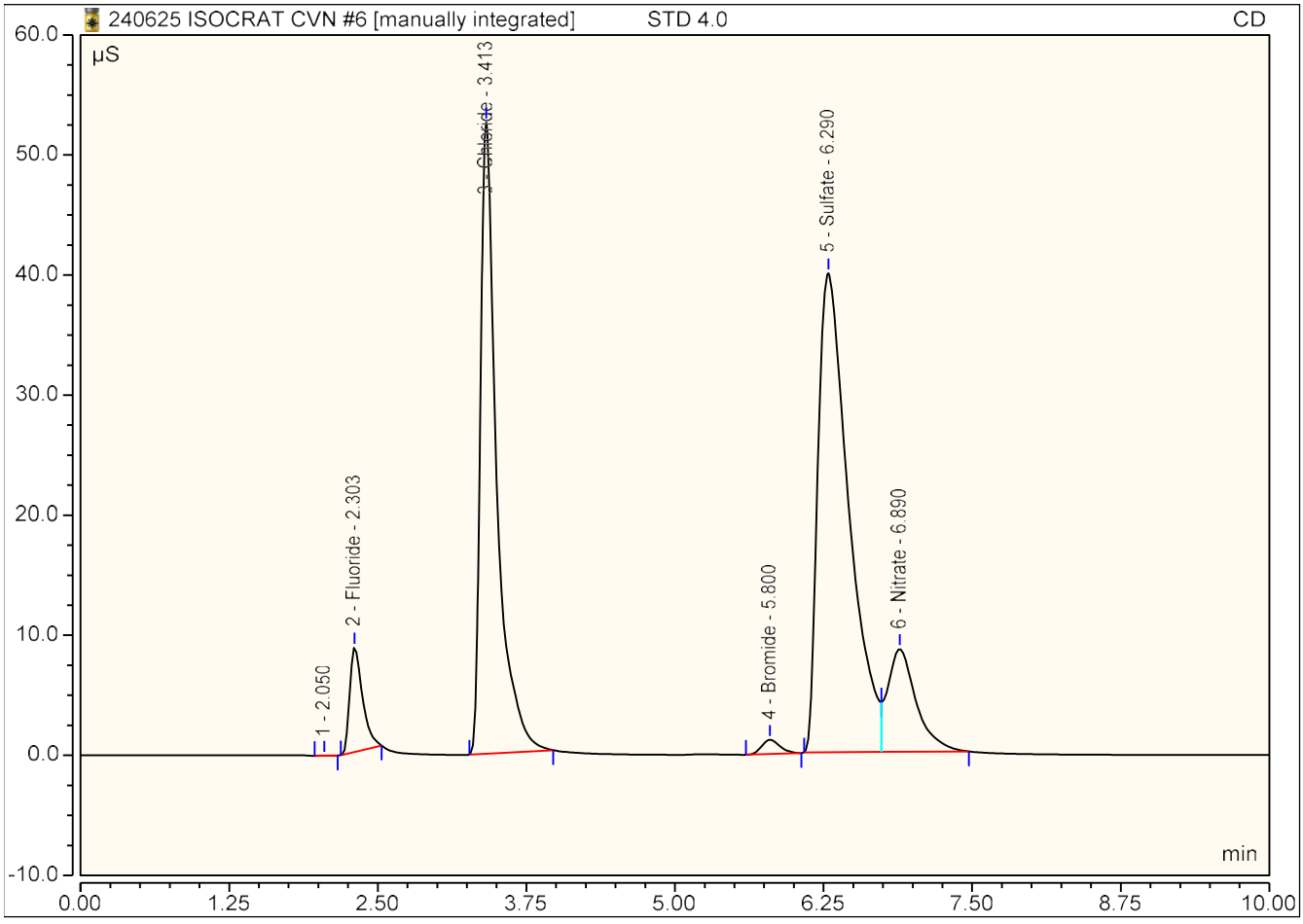
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.30	**Fluoride**	BMB	0.228	1.898	0.4532
3	3.42	**Chloride**	BMB*	2.015	13.175	4.9324
4	5.82	**Bromide**	BMB	0.045	0.232	0.4562
5	6.42	**Sulfate**	BM *	2.929	12.045	9.9697
6	6.93	**Nitrate**	MB*	0.530	2.029	0.4668
TOTAL:				5.75	29.38	16.28



Peak Integration Report

Sample Name:	**STD 4.0**	*Inj. Vol.:*	**25.00**
Injection Type:	**Calibration Standard**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**20-Jun-2024 / 20:17**	*Run Time:*	**10.00**

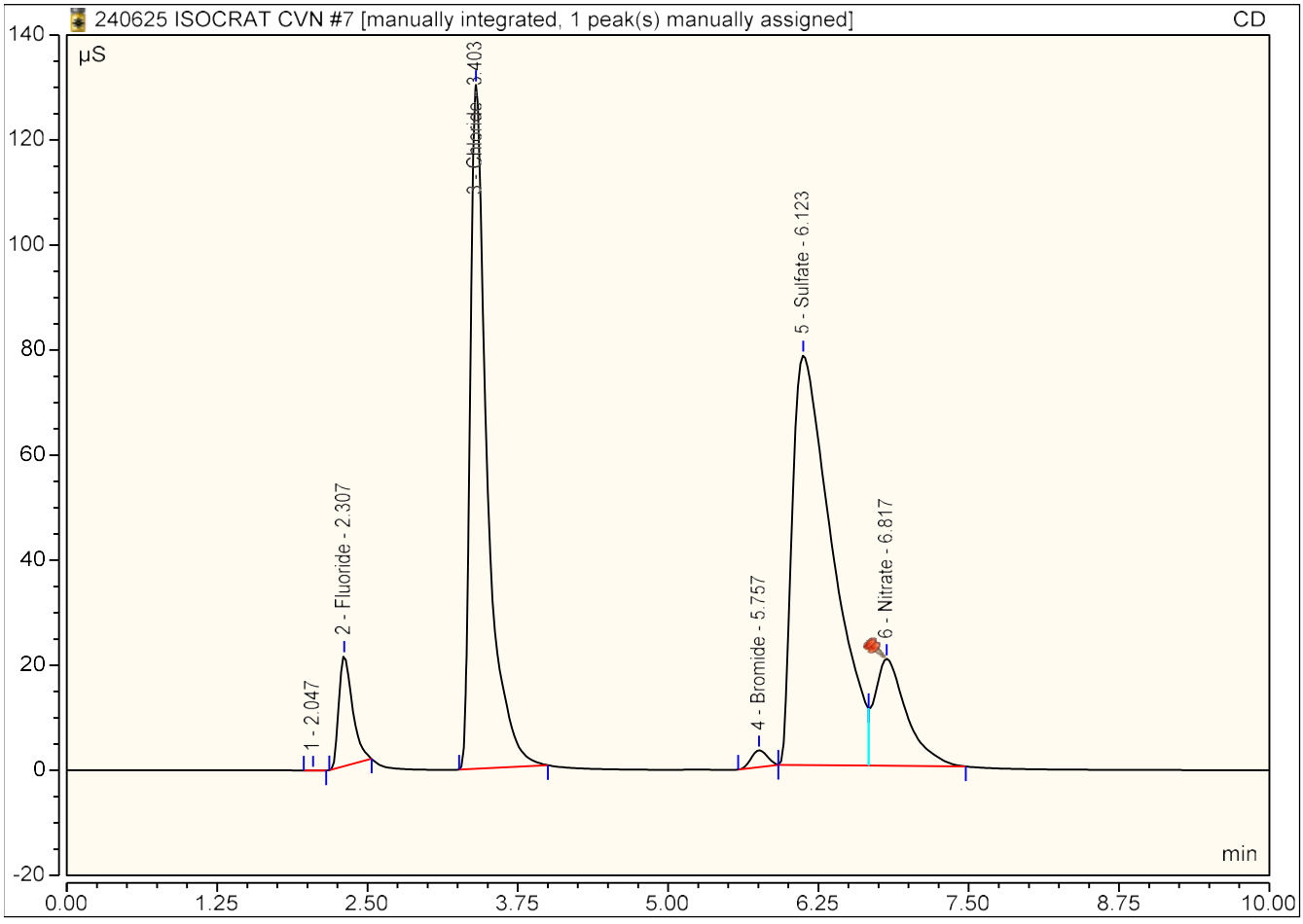
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.30	**Fluoride**	BMB	1.091	8.722	1.9929
3	3.41	**Chloride**	BMB*	8.345	52.603	19.7530
4	5.80	**Bromide**	BMB	0.212	1.195	2.0111
5	6.29	**Sulfate**	BM *	12.022	39.899	40.1924
6	6.89	**Nitrate**	MB*	2.390	8.578	2.0094
TOTAL:				24.06	111.00	65.96



Peak Integration Report

Sample Name:	**STD 5.0**	*Inj. Vol.:*	**25.00**
Injection Type:	**Calibration Standard**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**20-Jun-2024 / 20:29**	*Run Time:*	**10.00**

No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.31	**Fluoride**	BMB	2.783	21.008	5.0078
3	3.40	**Chloride**	BMB*	21.308	130.171	50.1053
4	5.76	**Bromide**	BMb*	0.495	3.193	4.6573
5	6.12	**Sulfate**	bM *	29.995	78.000	99.9323
6	6.82	**Nitrate**	MB*^	6.347	20.344	5.2913
TOTAL:				60.93	252.72	164.99



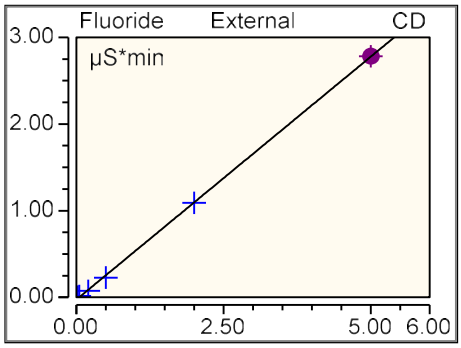
Calibration Batch Report

Sequence:	**240625 ISOCRAT CVN**	*Injection Volume:*	**25.00**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**20-Jun-2024 / 20:29**	*Run Time:*	**10**

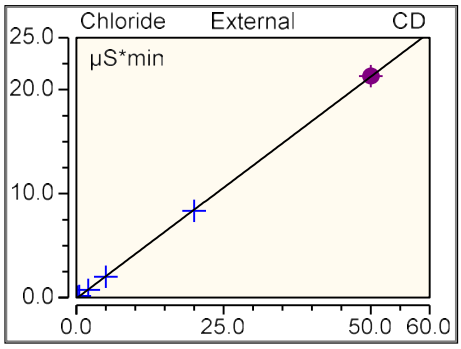
Calibration Summary

Peak Name	Eval.Type	Cal.Type	Points	Offset (C0)	Slope (C1)	Curve (C2)	Coeff.Det. %
Fluoride	Area	in, WithOffse	6.000	-0.027	0.561	0.000	99.9753
Chloride	Area	in, WithOffse	6.000	-0.091	0.427	0.000	99.9943
Bromide	Area	in, WithOffse	5.000	-0.004	0.107	0.000	99.8898
Sulfate	Area	in, WithOffse	6.000	-0.070	0.301	0.000	99.9990
Nitrate	Area	in, WithOffse	5.000	-0.033	1.206	0.000	99.9091
		AVERAGE:		-0.0451	0.5204	0.0000	99.9535

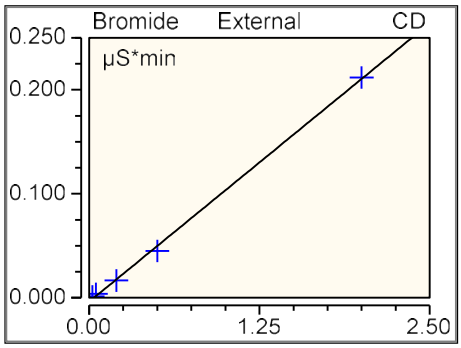
Injection Name	Ret.Time min CD	Area µS*min CD	Height µS CD	Amount CD
	Fluoride	Fluoride	Fluoride	Fluoride
STD 0.5	2.300	0.0085	0.064	0.063
STD 1.0	2.300	0.0162	0.127	0.076
STD 2.0	2.300	0.0753	0.625	0.182
STD 3.0	2.303	0.2275	1.898	0.453
STD 4.0	2.303	1.0914	8.722	1.993
STD 5.0	2.307	2.7828	21.008	5.008
Average	2.302			
Rel. Std. Dev.	0.118 %			



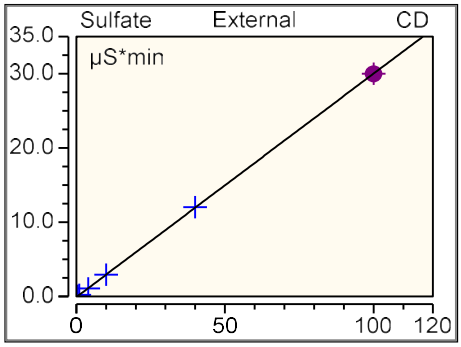
Injection Name	Ret.Time min CD	Area µS*min CD	Height µS CD	Amount CD
	Chloride	Chloride	Chloride	Chloride
STD 0.5	3.417	0.0815	0.507	0.405
STD 1.0	3.420	0.1605	1.037	0.590
STD 2.0	3.420	0.7474	4.966	1.964
STD 3.0	3.417	2.0151	13.175	4.932
STD 4.0	3.413	8.3449	52.603	19.753
STD 5.0	3.403	21.3083	130.171	50.105
Average	3.415			
Rel. Std. Dev.	0.183 %			



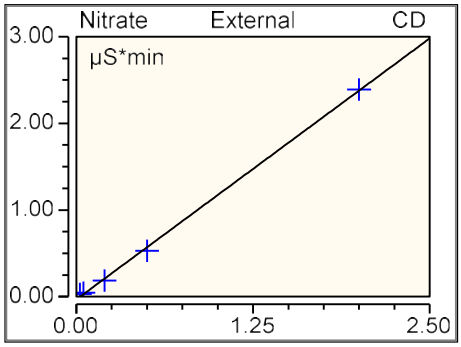
Injection Name	Ret.Time min CD	Area µS*min CD	Height µS CD	Amount CD
	Bromide	Bromide	Bromide	Bromide
STD 0.5	5.817	0.0013	0.007	0.048
STD 1.0	5.823	0.0037	0.019	0.070
STD 2.0	5.823	0.0166	0.083	0.190
STD 3.0	5.820	0.0451	0.232	0.456
STD 4.0	5.800	0.2117	1.195	2.011
STD 5.0	5.757	0.4953	3.193	4.657
Average	5.807			
Rel. Std. Dev.	0.448 %			



Injection Name	Ret.Time min CD	Area µS*min CD	Height µS CD	Amount CD
	Sulfate	Sulfate	Sulfate	Sulfate
STD 0.5	6.480	0.1069	0.446	0.589
STD 1.0	6.477	0.2247	0.960	0.980
STD 2.0	6.457	1.0842	4.686	3.837
STD 3.0	6.420	2.9293	12.045	9.970
STD 4.0	6.290	12.0219	39.899	40.192
STD 5.0	6.123	29.9948	78.000	99.932
Average	6.374			
Rel. Std. Dev.	2.225 %			



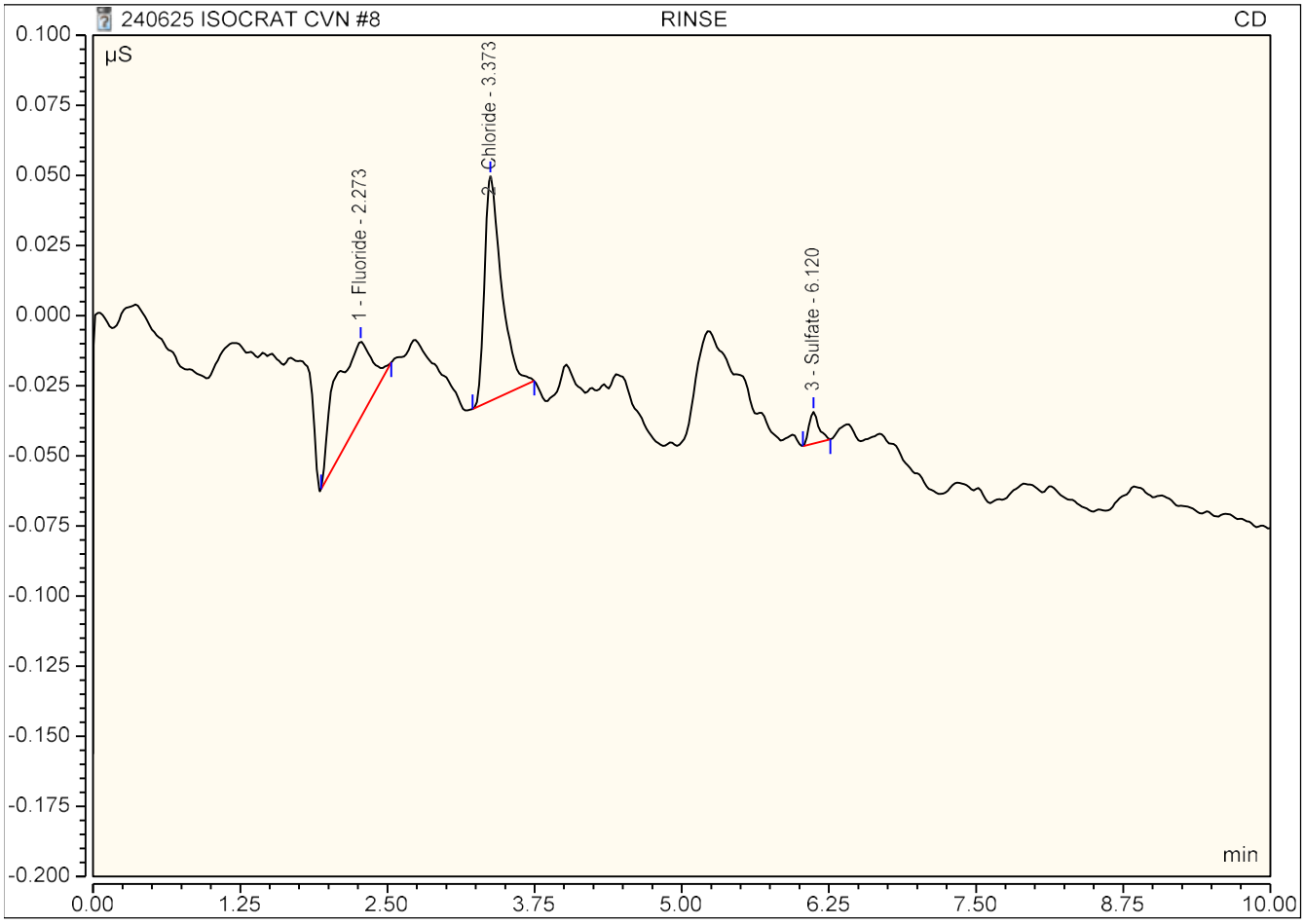
Injection Name	Ret.Time min CD	Area µS*min CD	Height µS CD	Amount CD
	Nitrate	Nitrate	Nitrate	Nitrate
STD 0.5	6.950	0.0296	0.104	0.052
STD 1.0	6.947	0.0457	0.163	0.065
STD 2.0	6.943	0.1856	0.705	0.181
STD 3.0	6.933	0.5297	2.029	0.467
STD 4.0	6.890	2.3899	8.578	2.009
STD 5.0	6.817	6.3473	20.344	5.291
Average	6.913			
Rel. Std. Dev.	0.756 %			



Peak Integration Report

Sample Name:	**RINSE**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**25-Jun-2024 / 10:36**	*Run Time:*	**10.00**

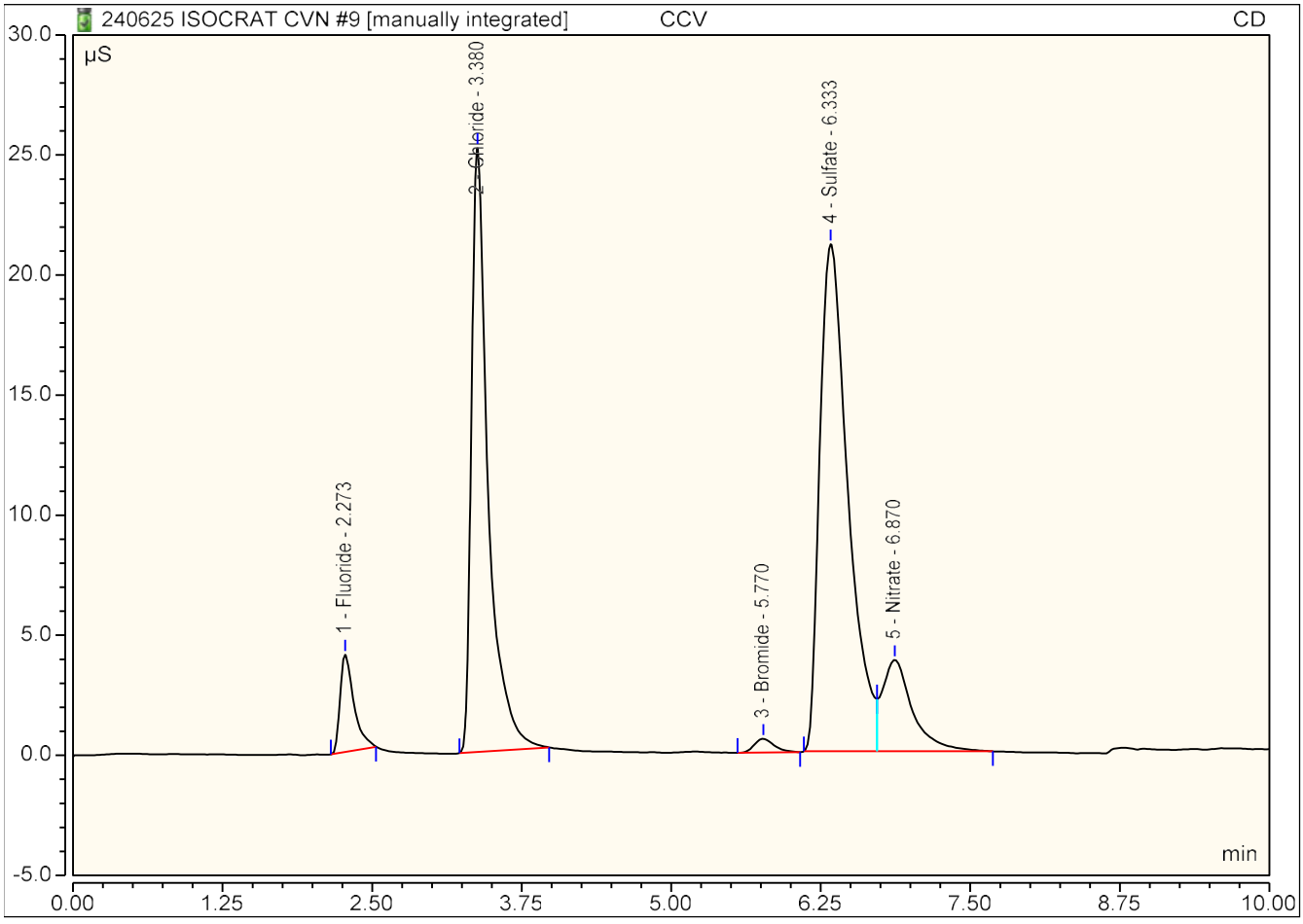
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
1	2.27	**Fluoride**	BMB	0.011	0.027	0.0673
2	3.37	**Chloride**	BMB	0.014	0.080	0.2459
3	6.12	**Sulfate**	BMB	0.001	0.011	0.2368
TOTAL:				0.03	0.12	0.55



Peak Integration Report

Sample Name:	**CCV**	*Inj. Vol.:*	**25.00**
Injection Type:	**Check Standard**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**25-Jun-2024 / 10:48**	*Run Time:*	**10.00**

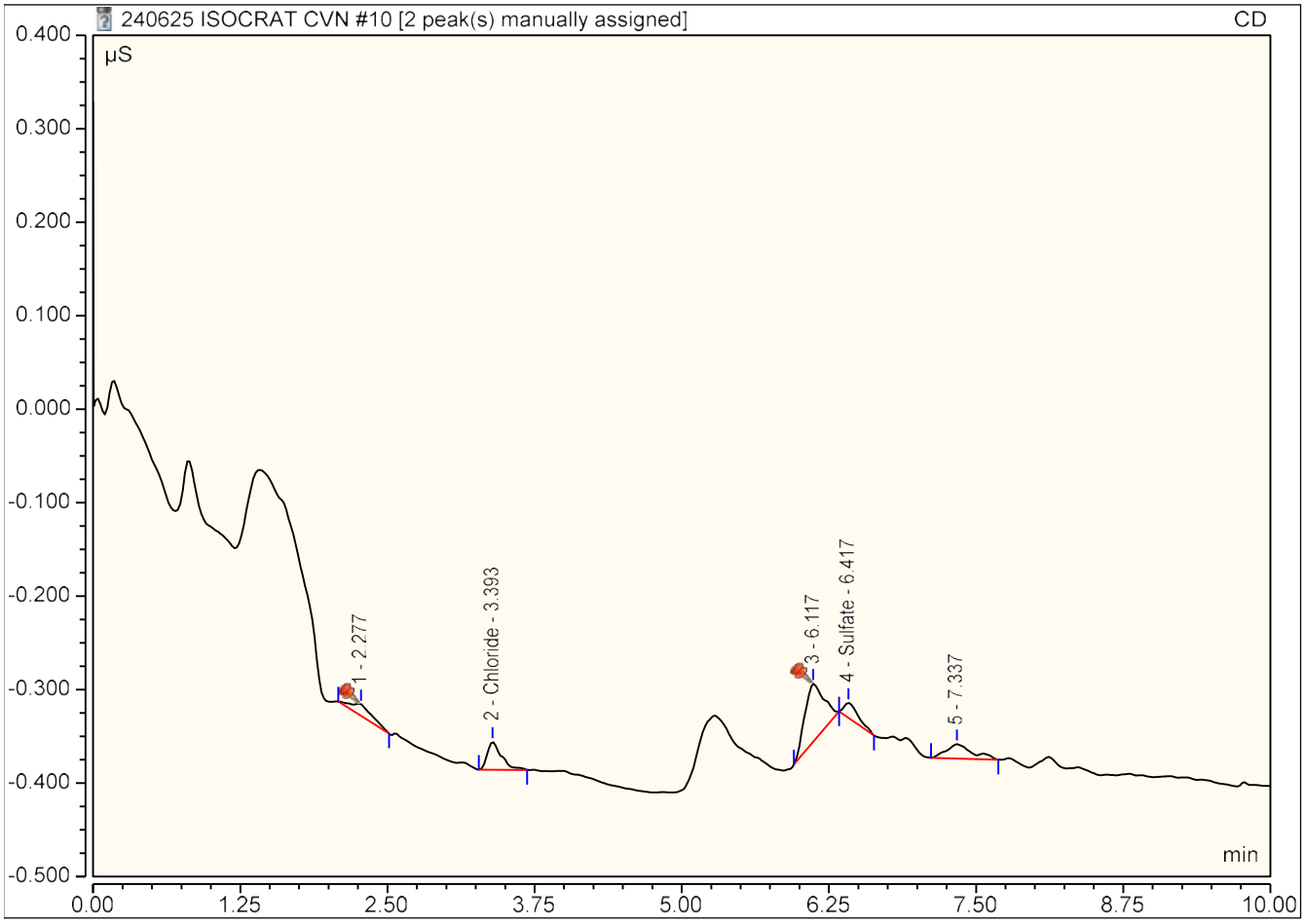
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
1	2.27	**Fluoride**	BMB	0.540	4.057	1.0097
2	3.38	**Chloride**	BMB*	4.081	25.166	9.7696
3	5.77	**Bromide**	BMB	0.110	0.572	1.0618
4	6.33	**Sulfate**	BM *	5.789	21.121	19.4736
5	6.87	**Nitrate**	MB*	1.114	3.807	0.9517
TOTAL:				11.63	54.72	32.27



Peak Integration Report

Sample Name:	**CCB**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**25-Jun-2024 / 11:00**	*Run Time:*	**10.00**

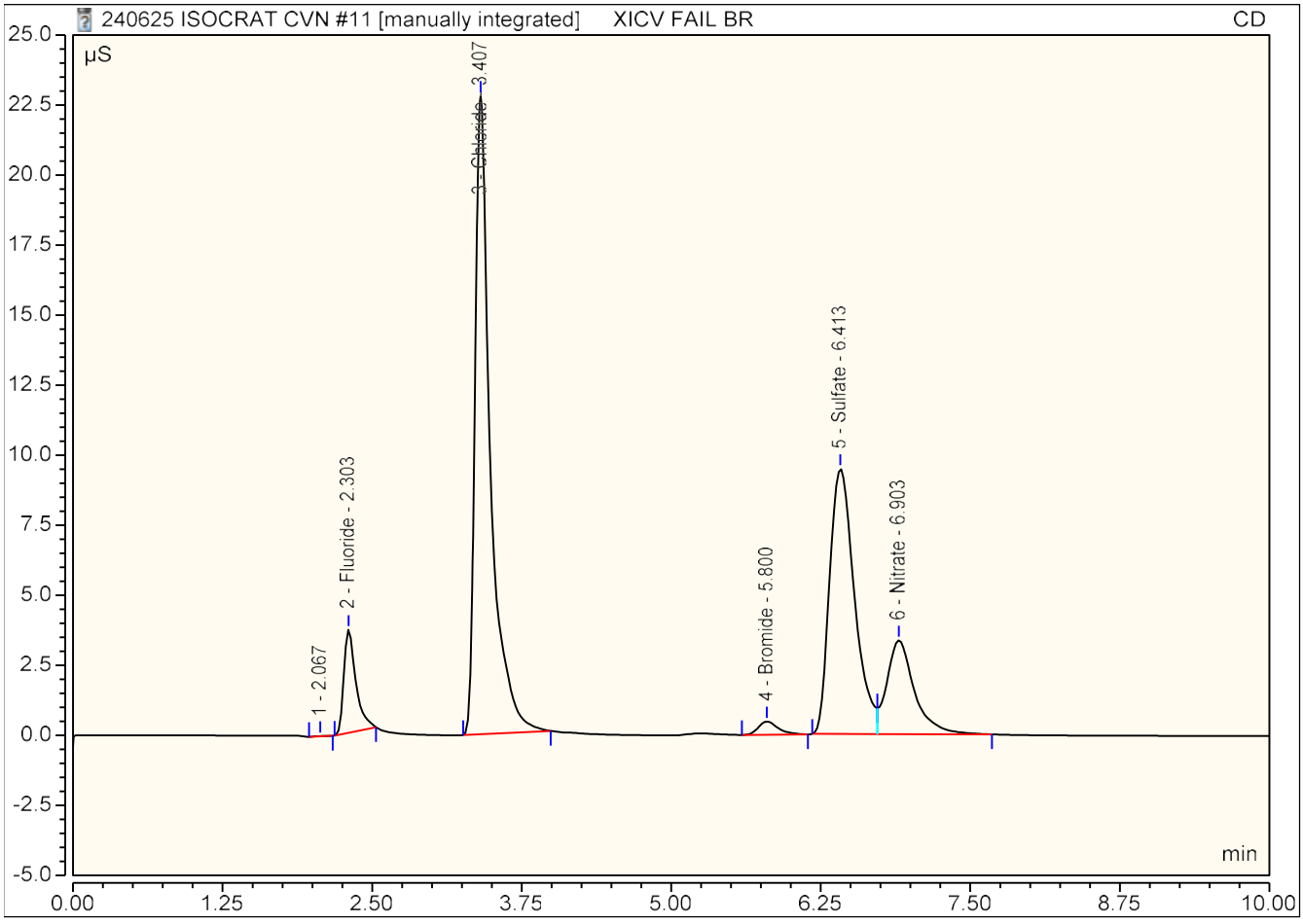
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	3.39	**Chloride**	BMB	0.004	0.030	0.2240
4	6.42	**Sulfate**	BMB	0.002	0.016	0.2409
TOTAL:				0.01	0.05	0.46



Peak Integration Report

Sample Name:	**XICV FAIL BR**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**25-Jun-2024 / 11:13**	*Run Time:*	**10.00**

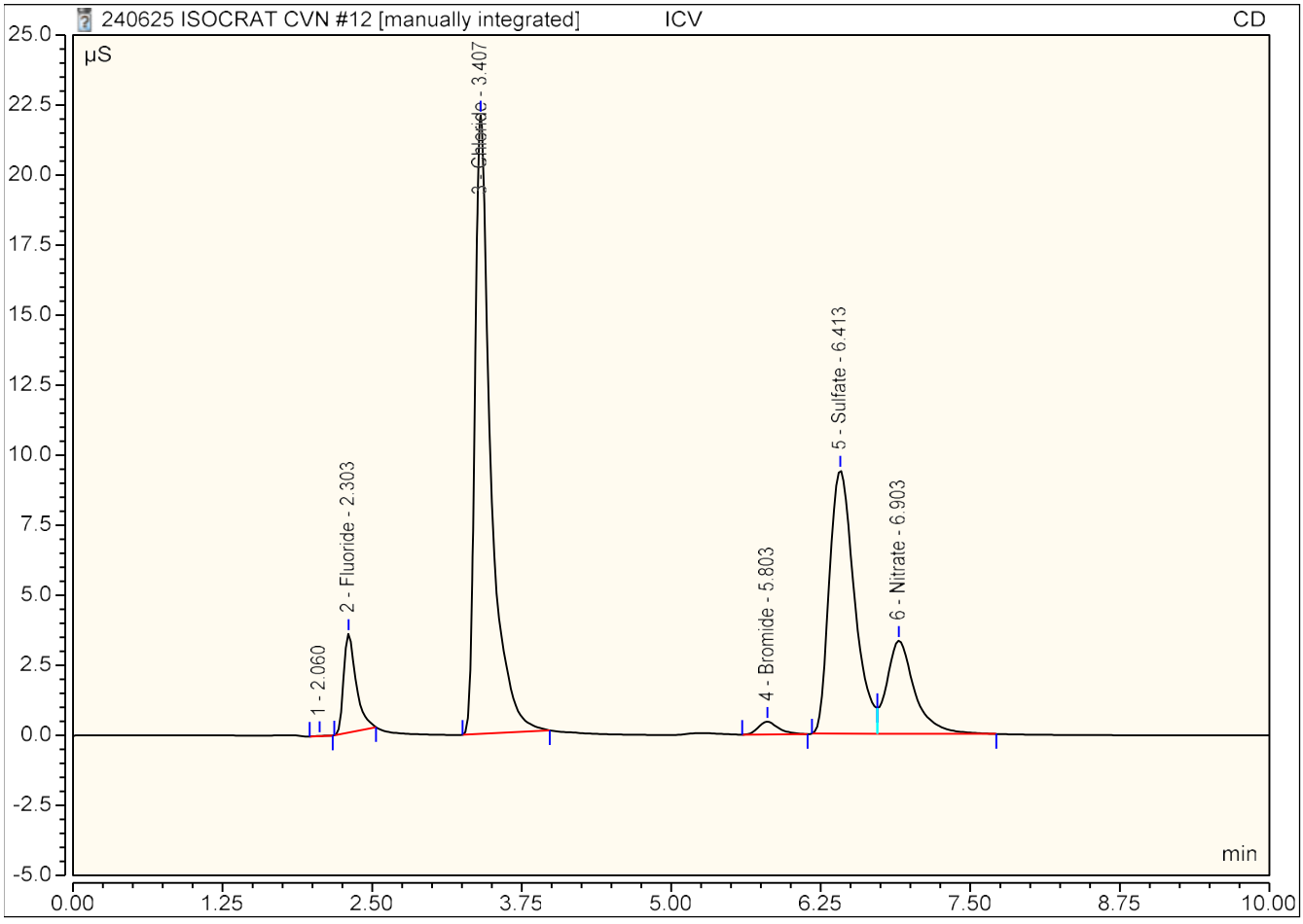
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.30	**Fluoride**	BMB	0.429	3.677	0.8119
3	3.41	**Chloride**	BMB*	3.381	22.788	8.1298
4	5.80	**Bromide**	BMB	0.092	0.475	0.8955
5	6.41	**Sulfate**	BM *	2.284	9.460	7.8251
6	6.90	**Nitrate**	MB*	0.894	3.349	0.7687
TOTAL:				7.08	39.75	18.43



Peak Integration Report

Sample Name:	**ICV**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**25-Jun-2024 / 11:41**	*Run Time:*	**10.00**

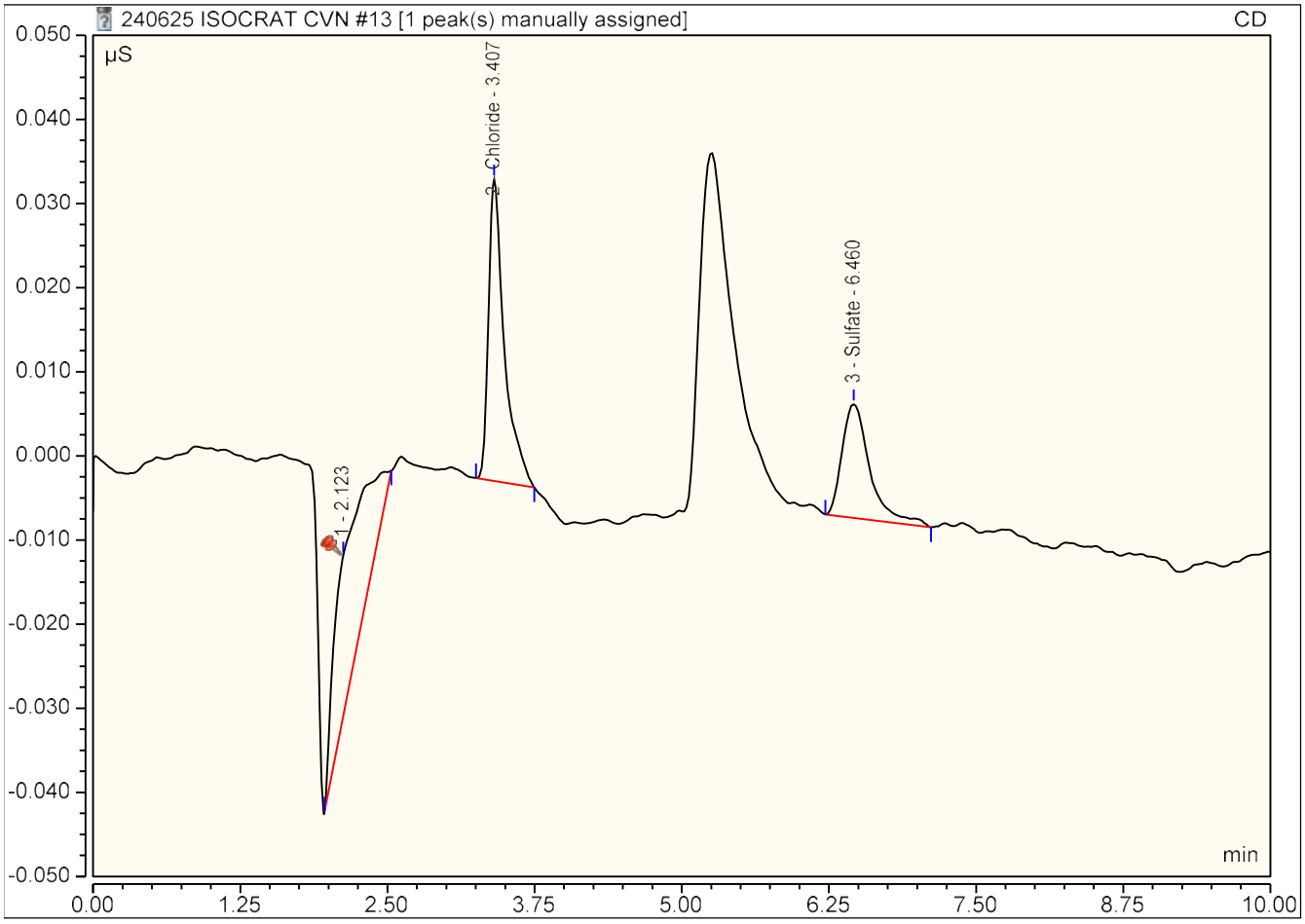
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.30	**Fluoride**	BMB	0.425	3.526	0.8057
3	3.41	**Chloride**	BMB*	3.380	22.077	8.1278
4	5.80	**Bromide**	BMB	0.089	0.457	0.8668
5	6.41	**Sulfate**	BM *	2.284	9.394	7.8254
6	6.90	**Nitrate**	MB*	0.893	3.318	0.7685
TOTAL:				7.07	38.77	18.39



Peak Integration Report

Sample Name:	**ICB**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**25-Jun-2024 / 11:53**	*Run Time:*	**10.00**

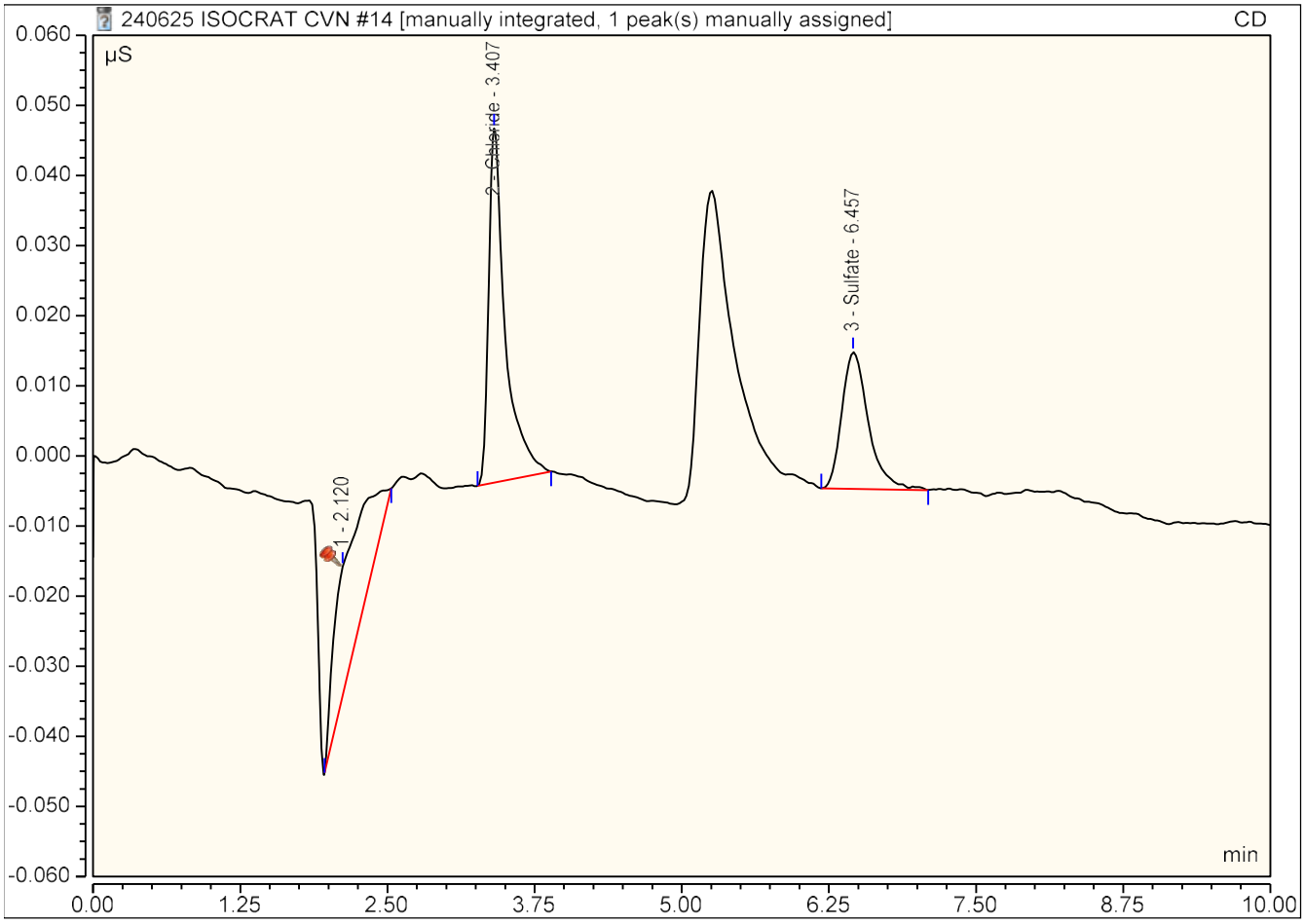
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	3.41	**Chloride**	BMB	0.006	0.036	0.2273
3	6.46	**Sulfate**	BMB	0.004	0.014	0.2454
TOTAL:				0.01	0.05	0.47



Peak Integration Report

Sample Name:	**BLK**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**25-Jun-2024 / 12:05**	*Run Time:*	**10.00**

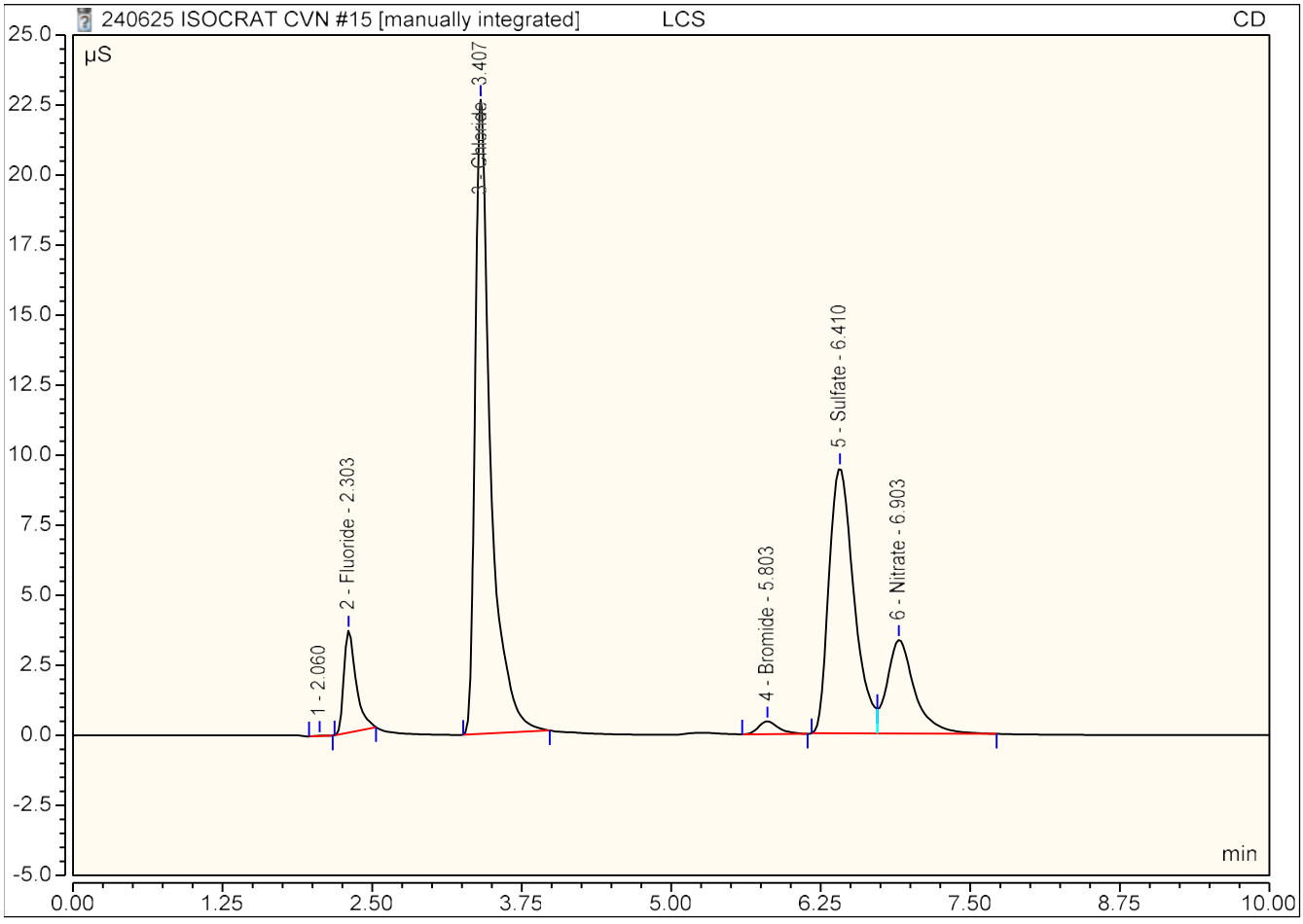
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	3.41	**Chloride**	BMB*	0.008	0.050	0.2335
3	6.46	**Sulfate**	BMB	0.005	0.020	0.2501
TOTAL:				0.01	0.07	0.48



Peak Integration Report

Sample Name:	**LCS**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**25-Jun-2024 / 12:17**	*Run Time:*	**10.00**

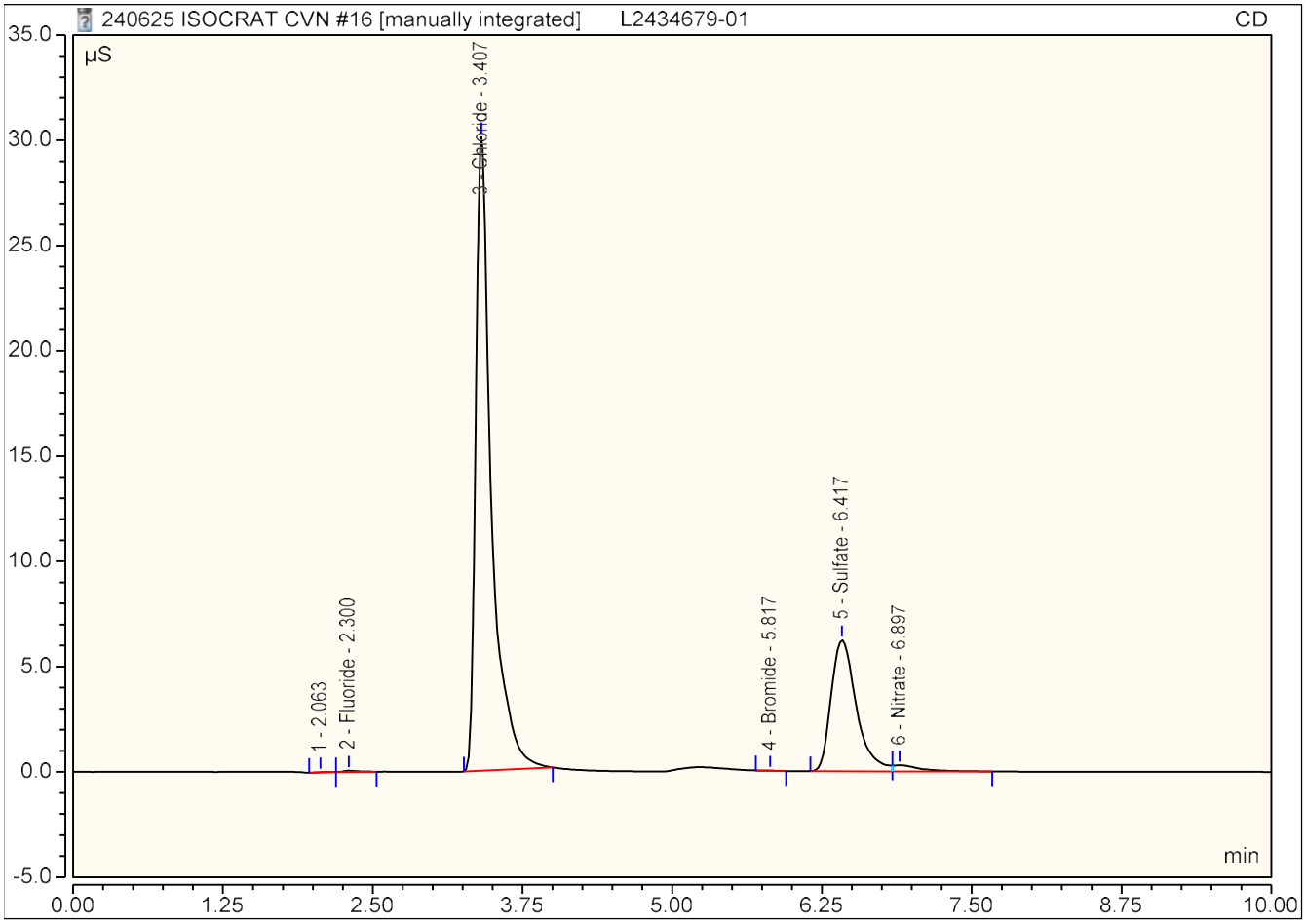
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.30	**Fluoride**	BMB	0.430	3.643	0.8135
3	3.41	**Chloride**	BMB*	3.392	22.634	8.1560
4	5.80	**Bromide**	BMB	0.089	0.463	0.8705
5	6.41	**Sulfate**	BM *	2.297	9.471	7.8696
6	6.90	**Nitrate**	MB*	0.892	3.345	0.7669
TOTAL:				7.10	39.56	18.48



Peak Integration Report

Sample Name:	**L2434679-01**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**25-Jun-2024 / 12:29**	*Run Time:*	**10.00**

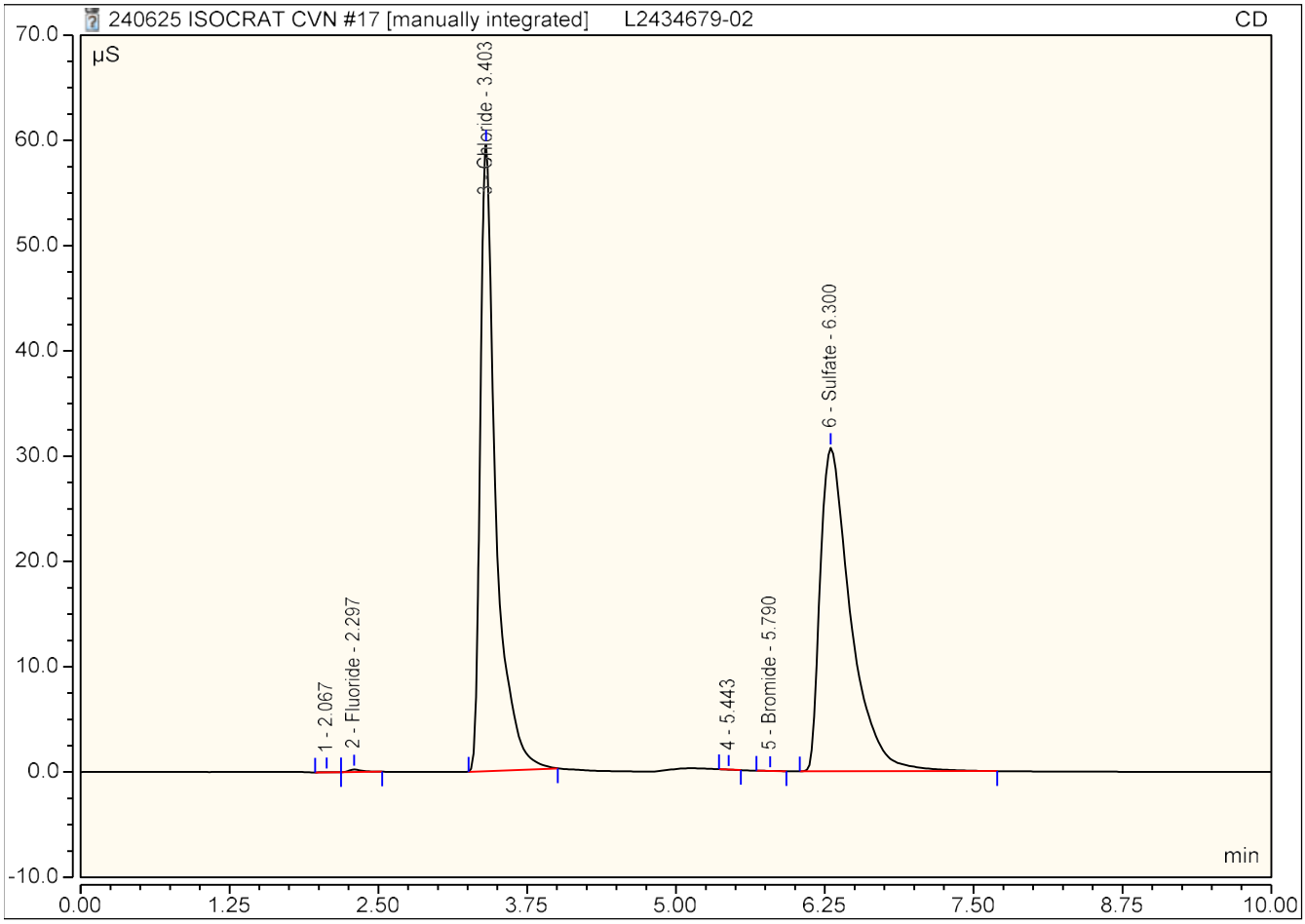
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.30	**Fluoride**	BMB	0.008	0.062	0.0621
3	3.41	**Chloride**	BMB*	4.551	30.101	10.8695
4	5.82	**Bromide**	BMB	0.001	0.004	0.0401
5	6.42	**Sulfate**	BM *	1.519	6.230	5.2817
6	6.90	**Nitrate**	MB*	0.076	0.288	0.0903
TOTAL:				6.15	36.69	16.34



Peak Integration Report

Sample Name:	**L2434679-02**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**25-Jun-2024 / 12:42**	*Run Time:*	**10.00**

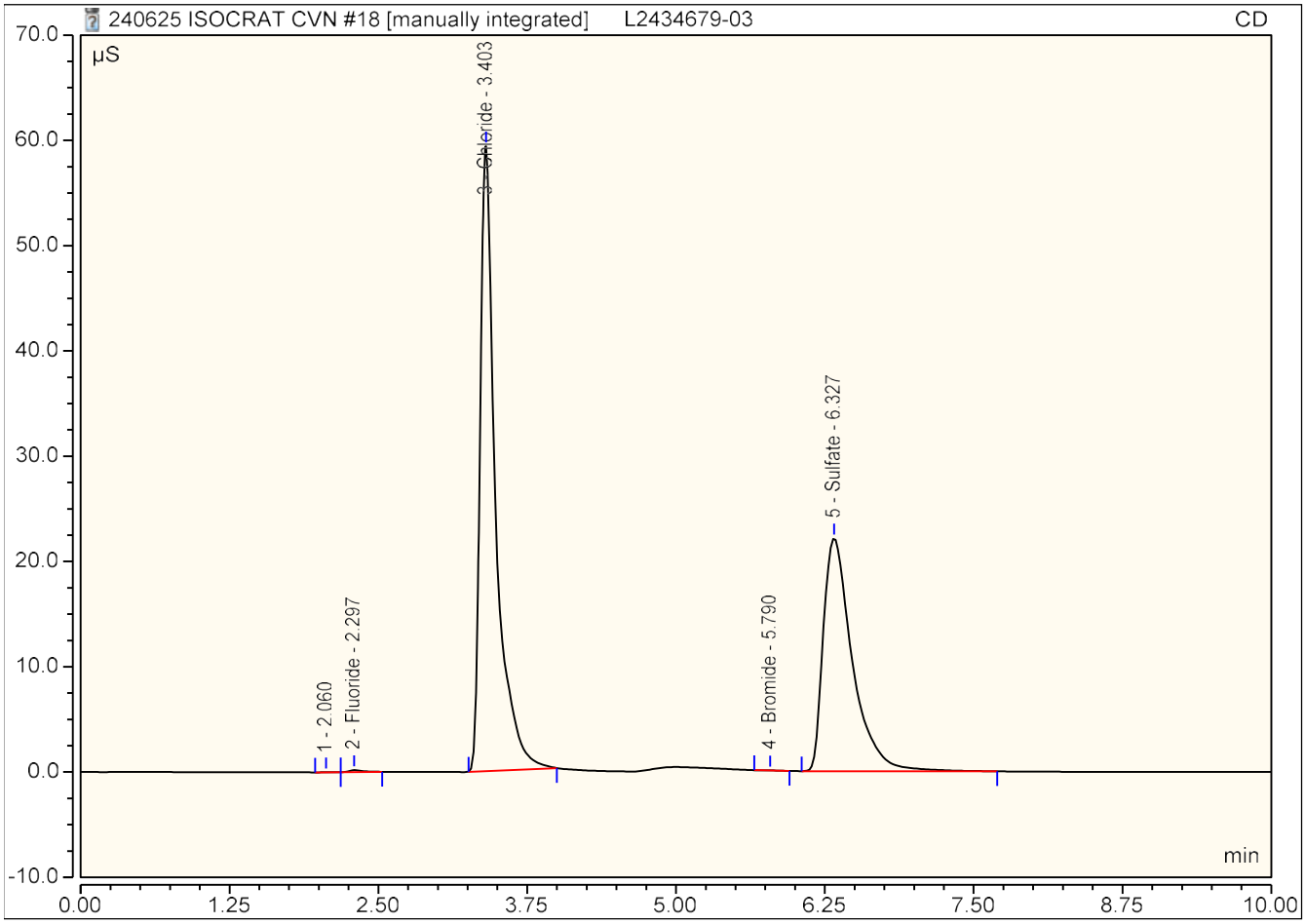
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.30	**Fluoride**	BMB	0.030	0.248	0.1011
3	3.40	**Chloride**	BMB*	9.025	59.499	21.3445
5	5.79	**Bromide**	BMB	0.001	0.006	0.0426
6	6.30	**Sulfate**	BMB	9.145	30.717	30.6310
TOTAL:				18.20	90.47	52.12



Peak Integration Report

Sample Name:	**L2434679-03**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**25-Jun-2024 / 12:54**	*Run Time:*	**10.00**

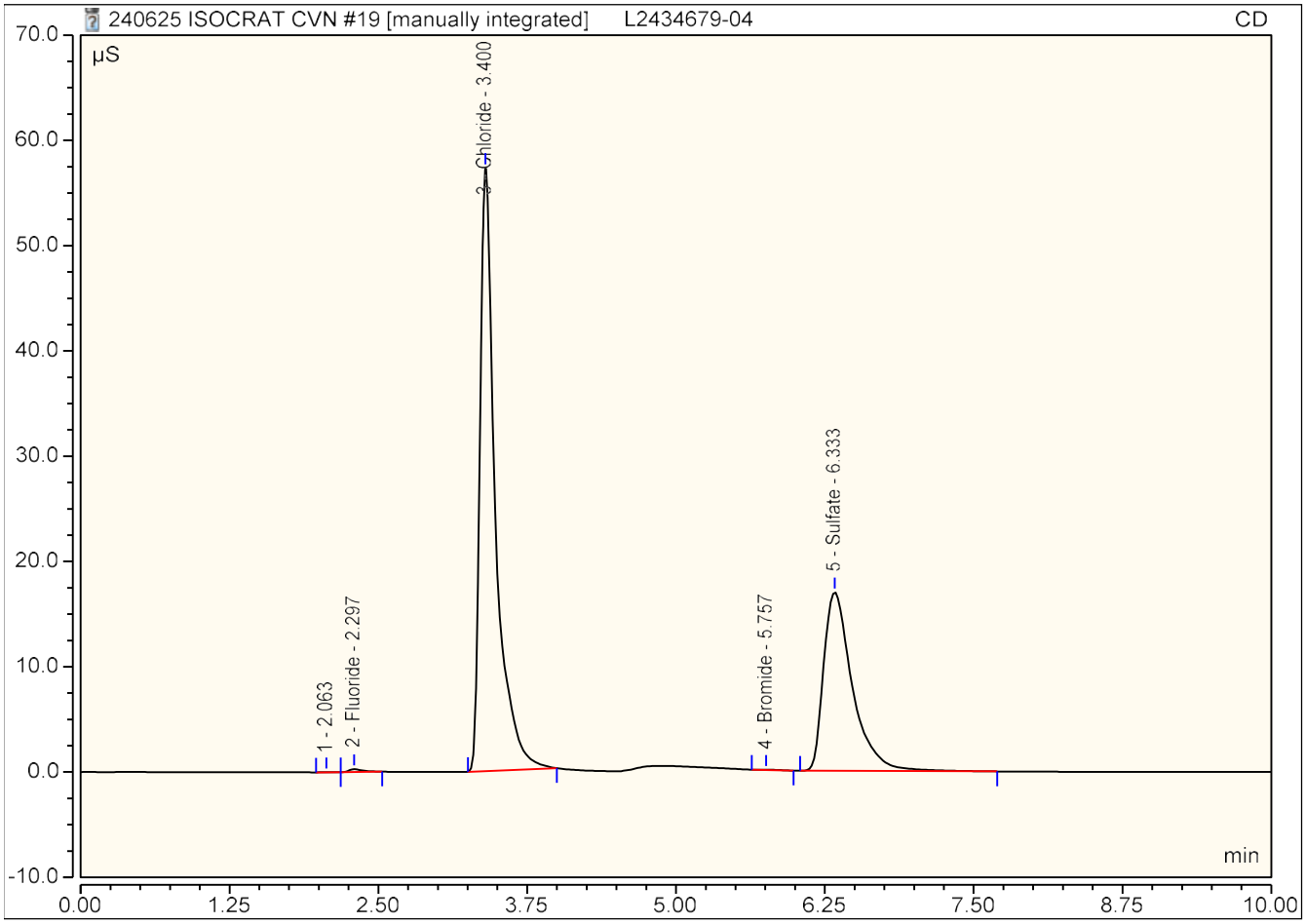
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.30	**Fluoride**	BMB	0.023	0.186	0.0890
3	3.40	**Chloride**	BMB*	8.944	59.350	21.1561
4	5.79	**Bromide**	BMB	0.002	0.015	0.0546
5	6.33	**Sulfate**	BMB	6.261	22.122	21.0455
TOTAL:				15.23	81.67	42.35



Peak Integration Report

Sample Name:	**L2434679-04**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**25-Jun-2024 / 13:06**	*Run Time:*	**10.00**

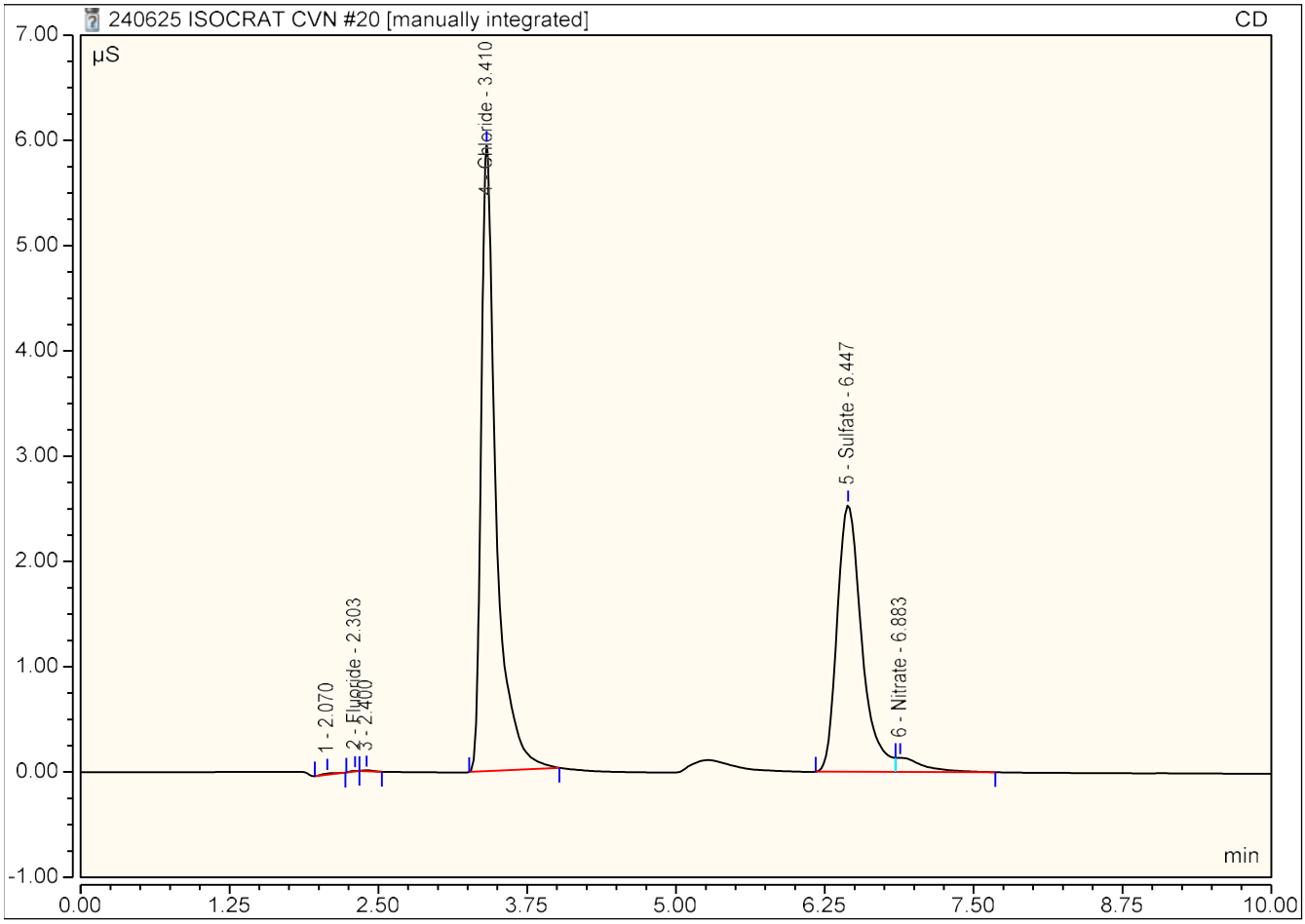
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.30	**Fluoride**	BMB	0.035	0.283	0.1106
3	3.40	**Chloride**	BMB*	8.622	57.294	20.4017
4	5.76	**Bromide**	BMB	0.006	0.036	0.0928
5	6.33	**Sulfate**	BMB	4.756	16.970	16.0424
TOTAL:				13.42	74.58	36.65



Peak Integration Report

Sample Name:	**XL2434679-06; 10X**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**10.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**25-Jun-2024 / 13:18**	*Run Time:*	**10.00**

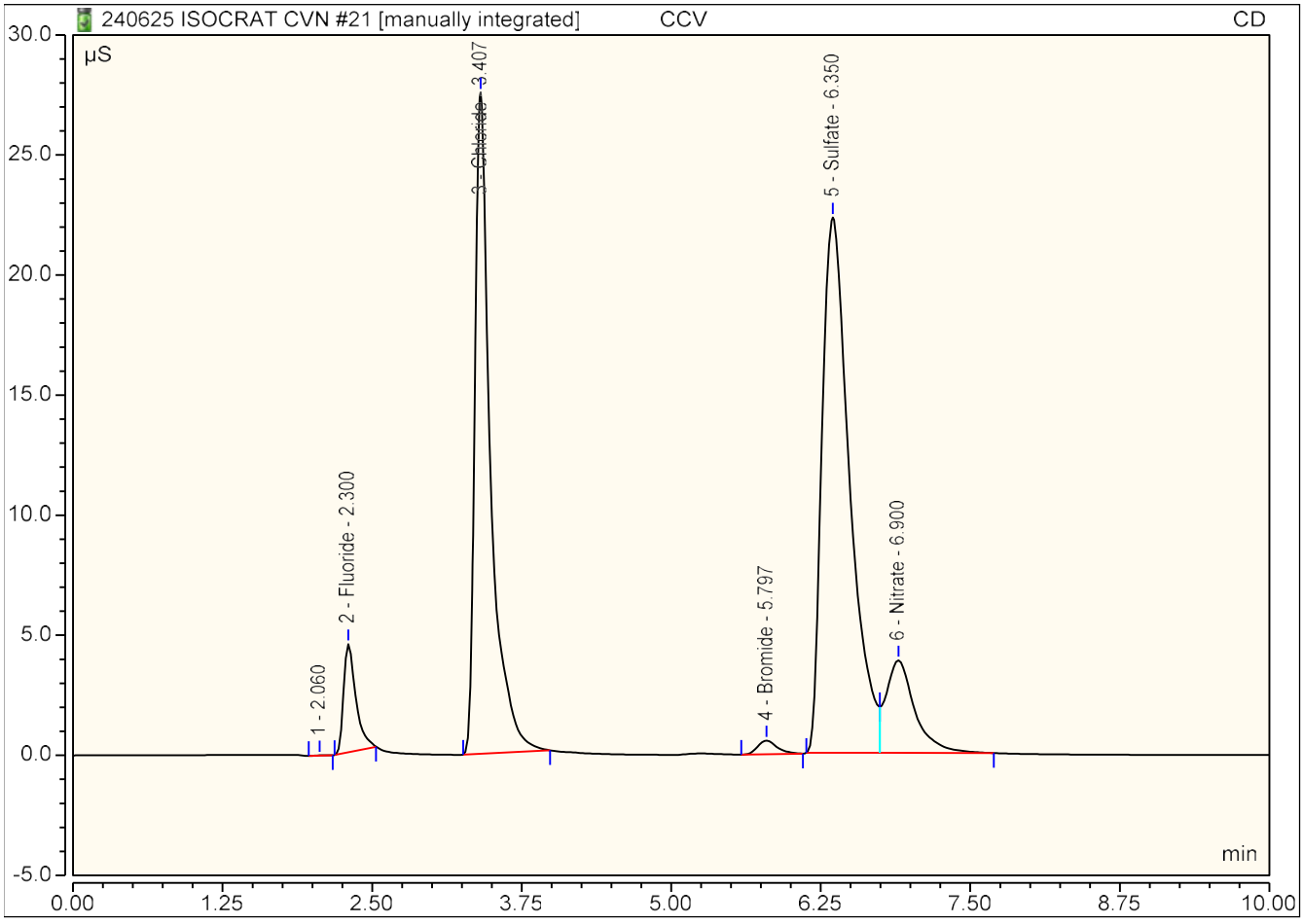
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.30	**Fluoride**	BMB	0.000	0.006	0.4840
4	3.41	**Chloride**	BMB*	0.870	5.942	22.5073
5	6.45	**Sulfate**	BM *	0.608	2.532	22.5406
6	6.88	**Nitrate**	MB*	0.036	0.134	0.5723
TOTAL:				1.51	8.61	46.10



Peak Integration Report

Sample Name:	**CCV**	*Inj. Vol.:*	**25.00**
Injection Type:	**Check Standard**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**25-Jun-2024 / 13:30**	*Run Time:*	**10.00**

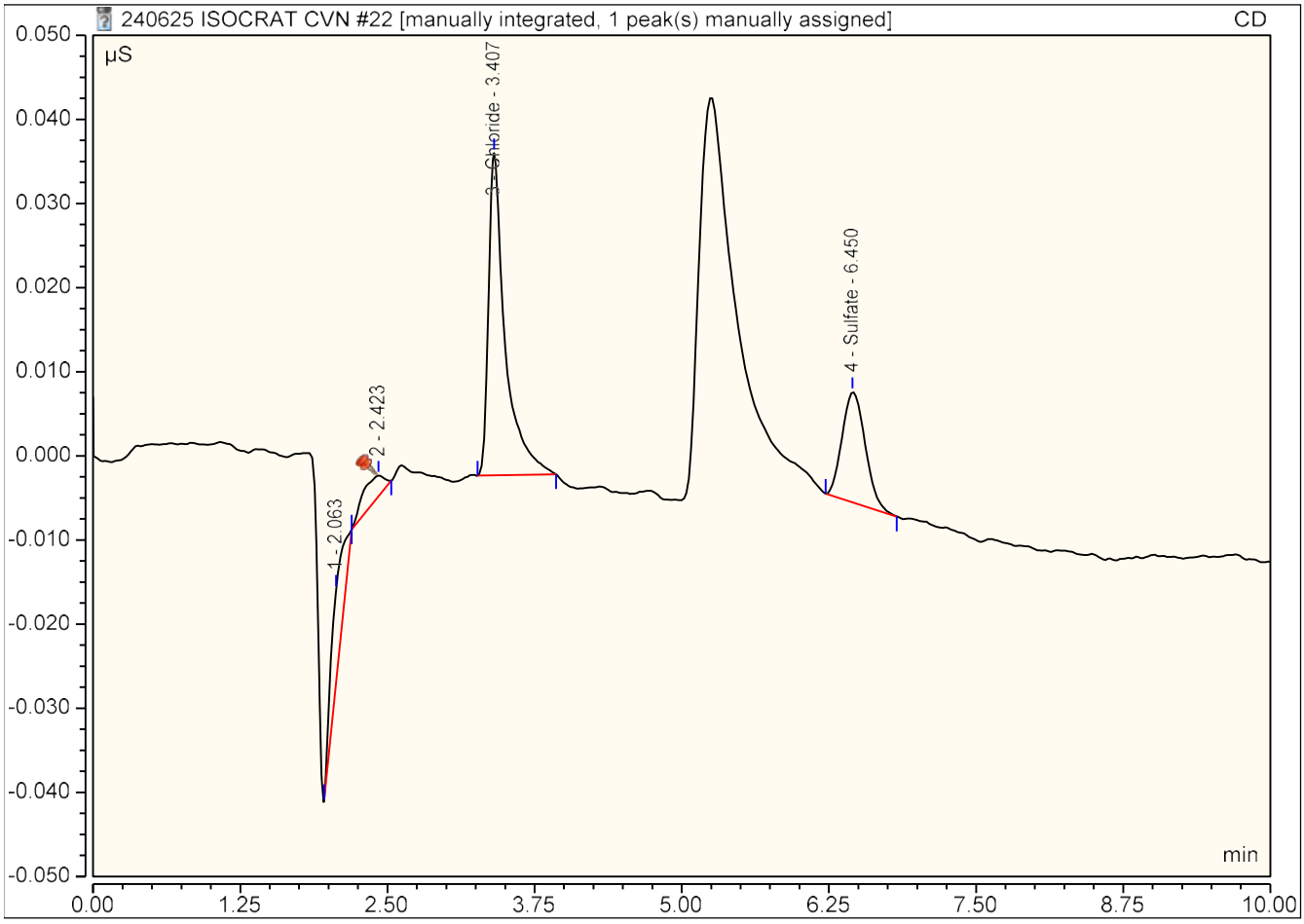
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.30	**Fluoride**	BMB	0.535	4.506	1.0010
3	3.41	**Chloride**	BMB*	4.166	27.536	9.9690
4	5.80	**Bromide**	BMB	0.107	0.571	1.0305
5	6.35	**Sulfate**	BM *	5.979	22.287	20.1077
6	6.90	**Nitrate**	MB*	1.079	3.856	0.9224
TOTAL:				11.87	58.76	33.03



Peak Integration Report

Sample Name:	**CCB**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**25-Jun-2024 / 13:42**	*Run Time:*	**10.00**

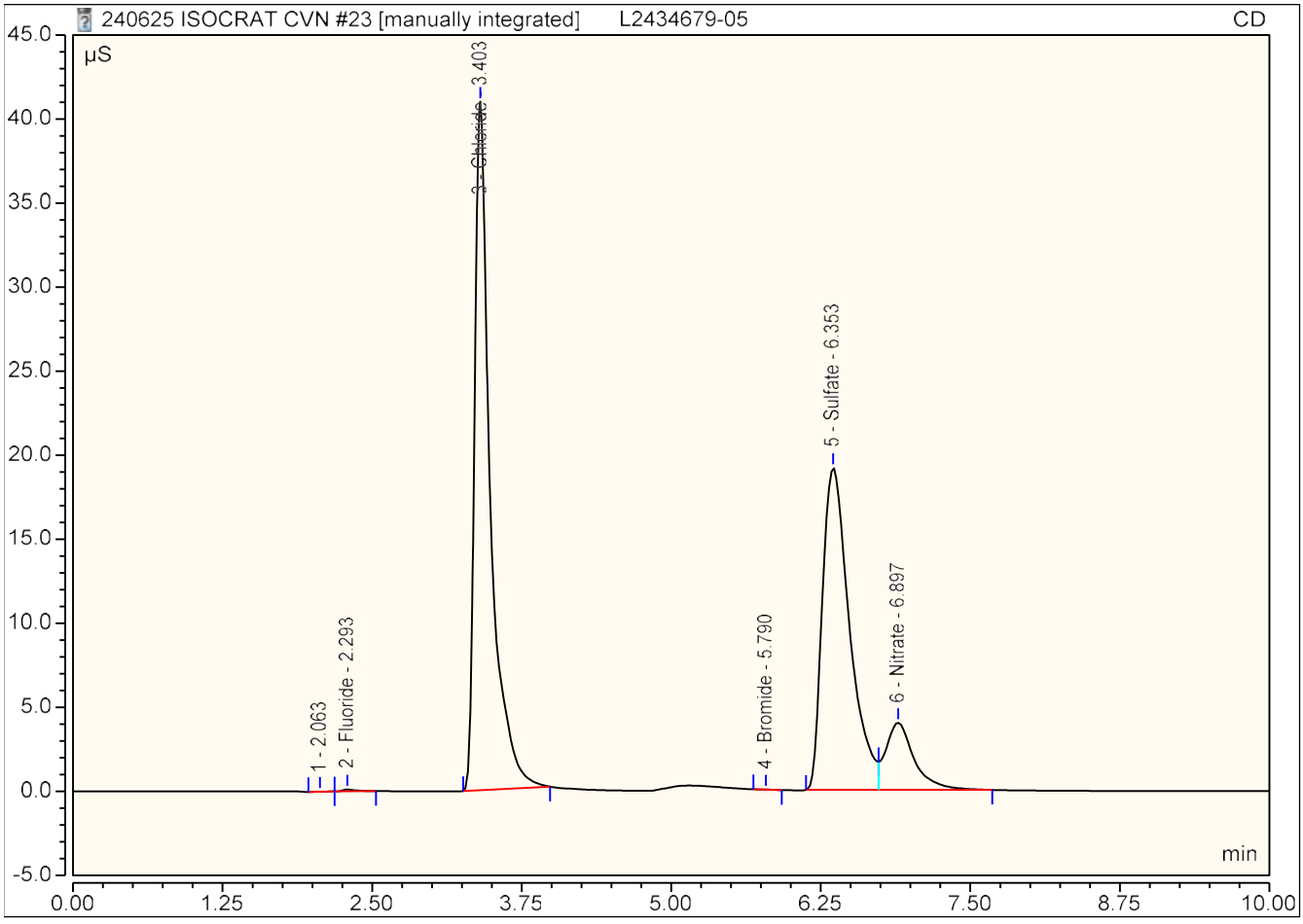
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
3	3.41	**Chloride**	BMB*	0.006	0.038	0.2289
4	6.45	**Sulfate**	BMB	0.003	0.013	0.2430
TOTAL:				0.01	0.05	0.47



Peak Integration Report

Sample Name:	**L2434679-05**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**25-Jun-2024 / 13:54**	*Run Time:*	**10.00**

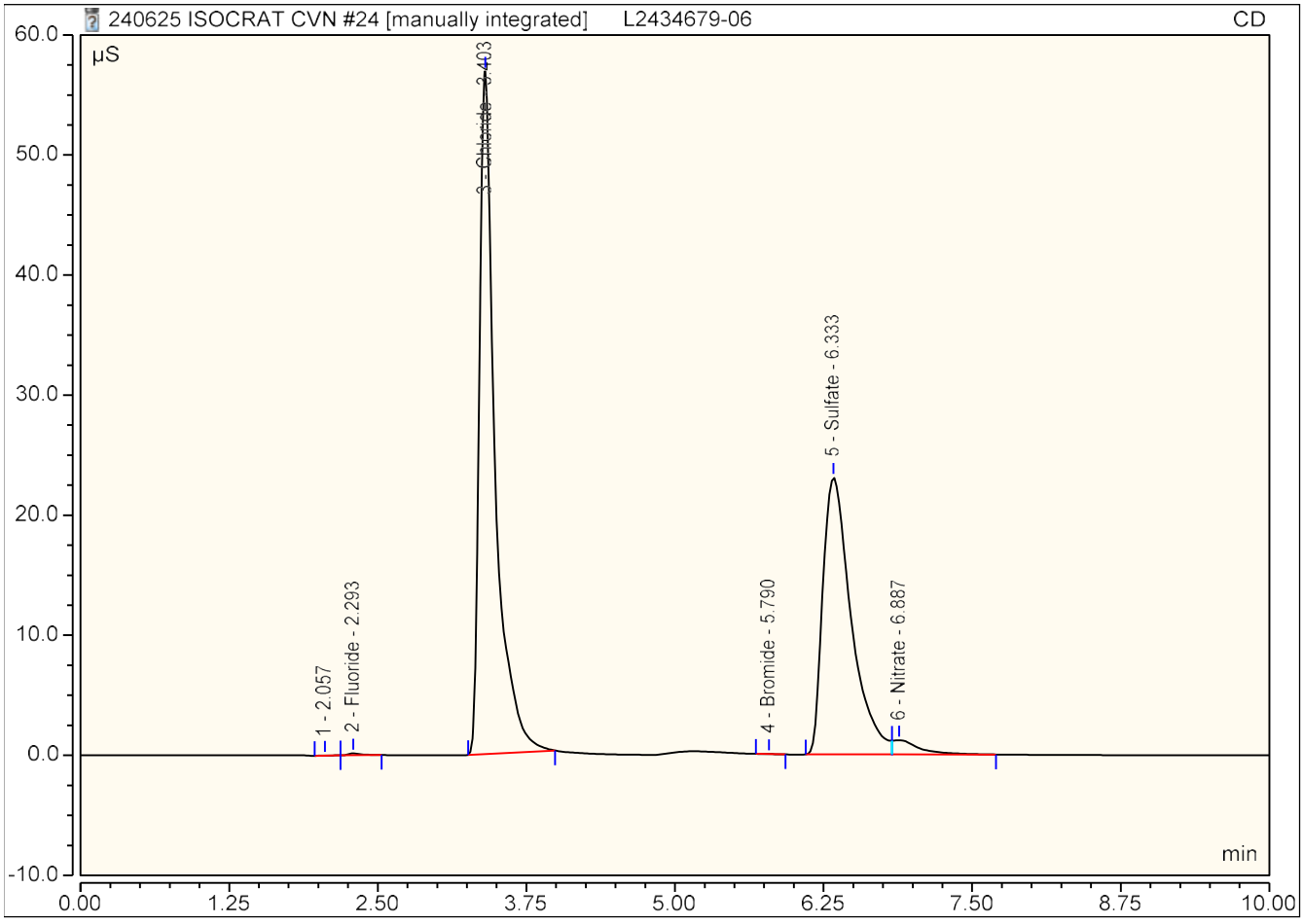
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.29	**Fluoride**	BMB	0.015	0.117	0.0737
3	3.40	**Chloride**	BMB*	6.200	40.949	14.7304
4	5.79	**Bromide**	BMB	0.001	0.005	0.0406
5	6.35	**Sulfate**	BM *	5.044	19.151	16.9981
6	6.90	**Nitrate**	MB*	1.099	3.990	0.9390
TOTAL:				12.36	64.21	32.78



Peak Integration Report

Sample Name:	**L2434679-06**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**25-Jun-2024 / 14:06**	*Run Time:*	**10.00**

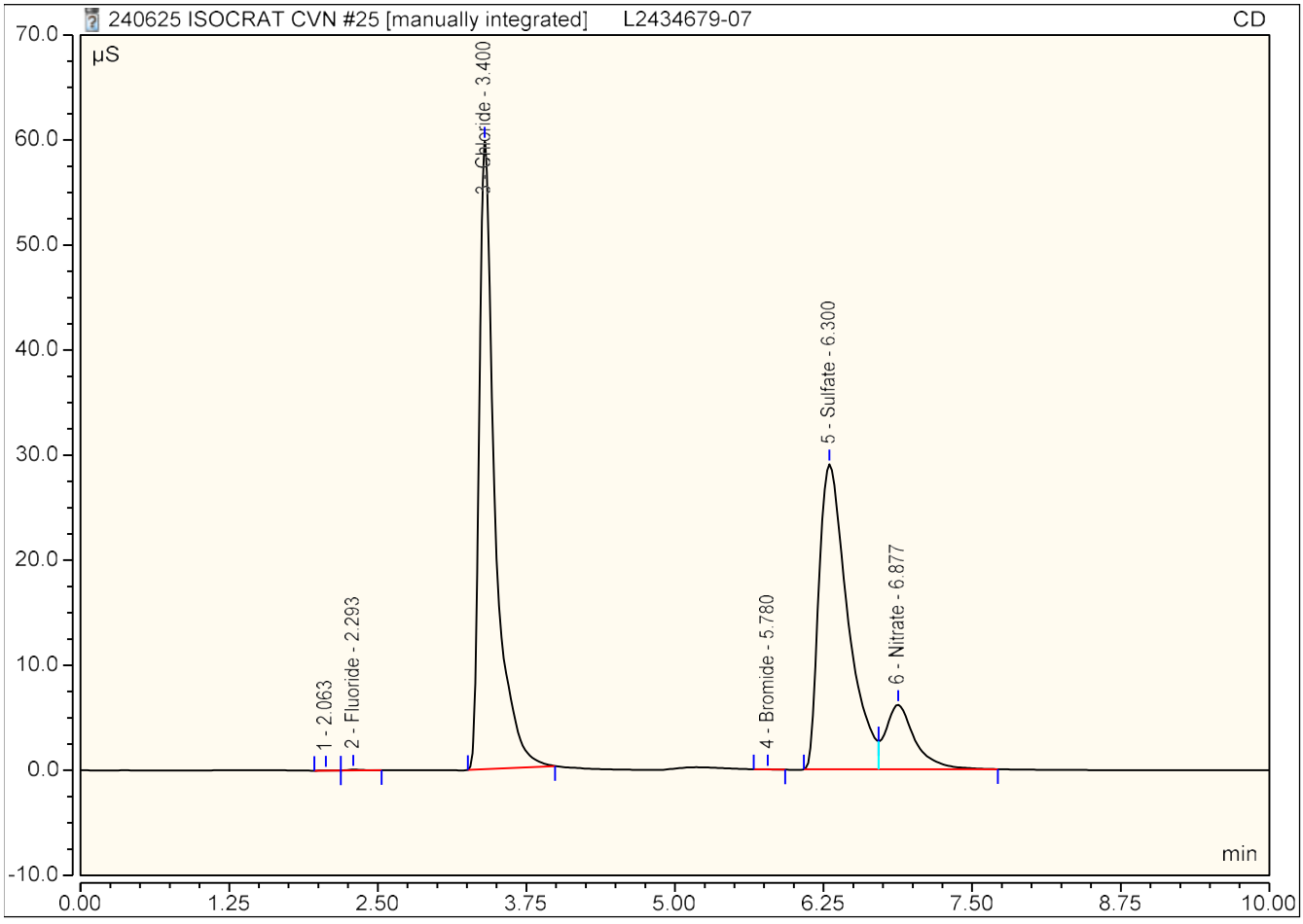
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.29	**Fluoride**	BMB	0.020	0.161	0.0832
3	3.40	**Chloride**	BMB*	8.680	56.858	20.5375
4	5.79	**Bromide**	BMB	0.001	0.007	0.0434
5	6.33	**Sulfate**	BM *	6.392	23.052	21.4789
6	6.89	**Nitrate**	MB*	0.308	1.188	0.2833
TOTAL:				15.40	81.27	42.43



Peak Integration Report

Sample Name:	**L2434679-07**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**25-Jun-2024 / 14:18**	*Run Time:*	**10.00**

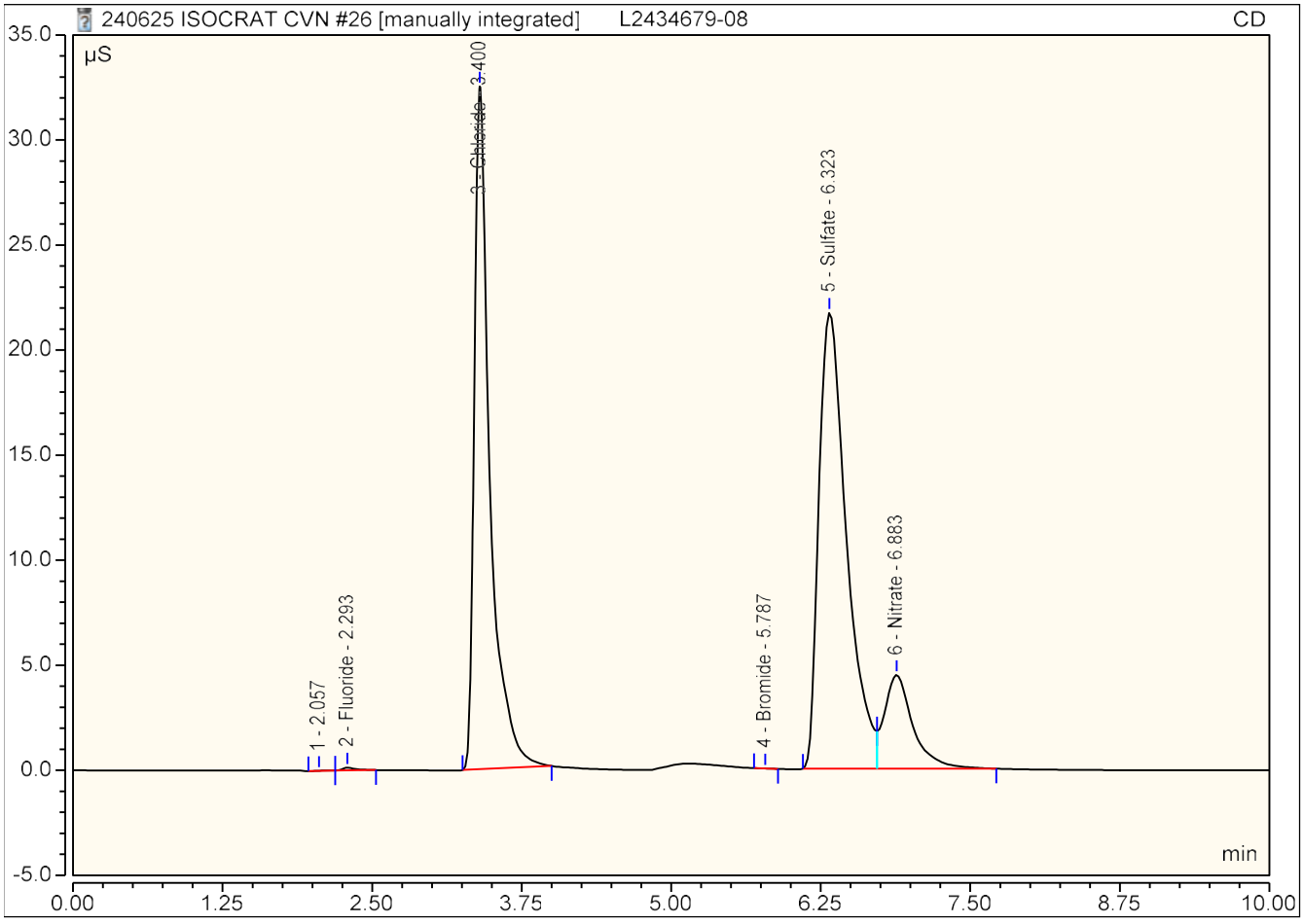
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.29	**Fluoride**	BMB	0.009	0.071	0.0641
3	3.40	**Chloride**	BMB*	9.118	59.763	21.5641
4	5.78	**Bromide**	BMB	0.001	0.009	0.0454
5	6.30	**Sulfate**	BM *	8.166	29.031	27.3774
6	6.88	**Nitrate**	MB*	1.752	6.145	1.4805
TOTAL:				19.05	95.02	50.53



Peak Integration Report

Sample Name:	**L2434679-08**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**25-Jun-2024 / 14:30**	*Run Time:*	**10.00**

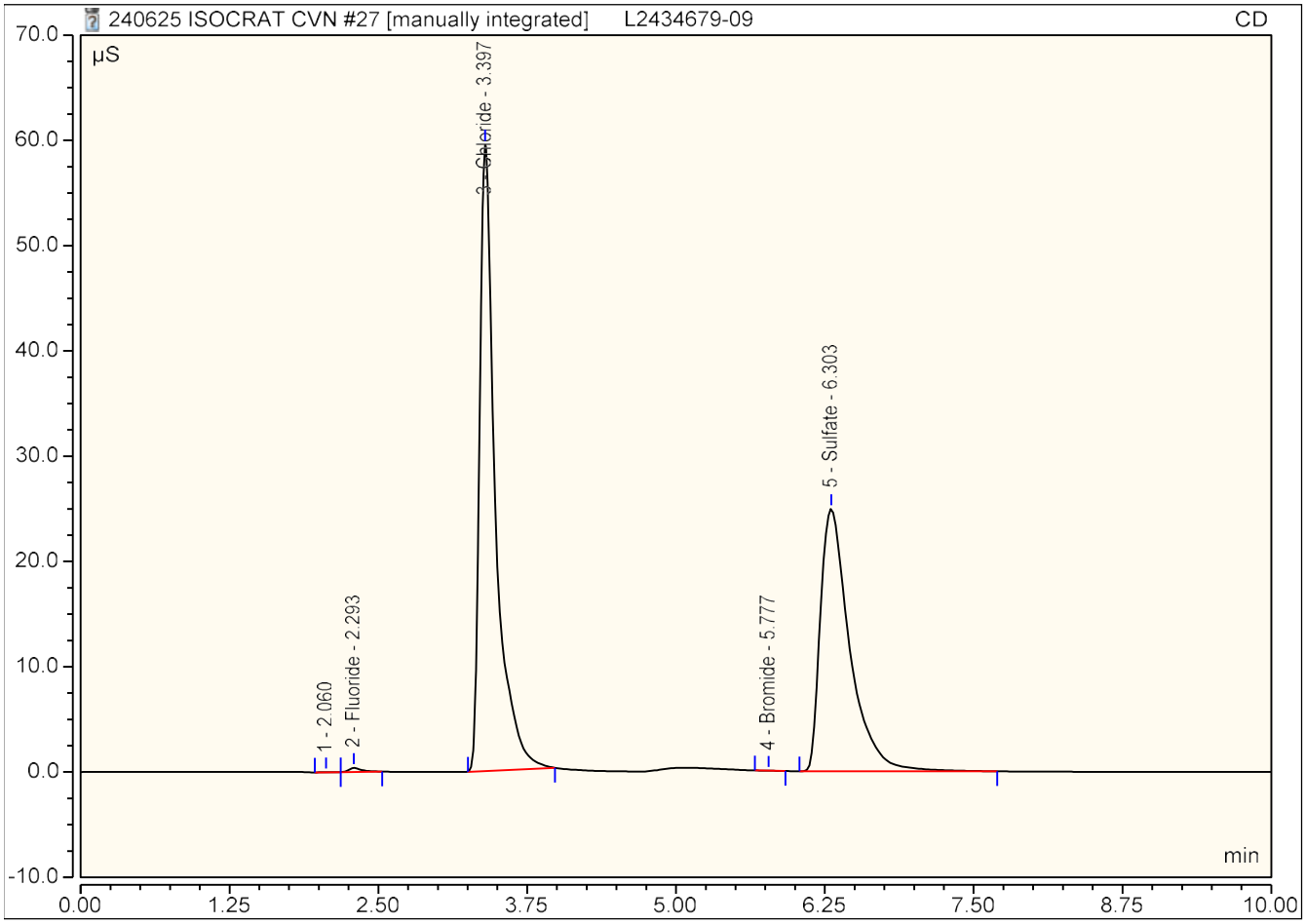
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.29	**Fluoride**	BMB	0.017	0.134	0.0773
3	3.40	**Chloride**	BMB*	4.895	32.495	11.6742
4	5.79	**Bromide**	BMB	0.000	0.003	0.0377
5	6.32	**Sulfate**	BM *	5.813	21.698	19.5553
6	6.88	**Nitrate**	MB*	1.237	4.456	1.0535
TOTAL:				11.96	58.79	32.40



Peak Integration Report

Sample Name:	**L2434679-09**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**25-Jun-2024 / 14:42**	*Run Time:*	**10.00**

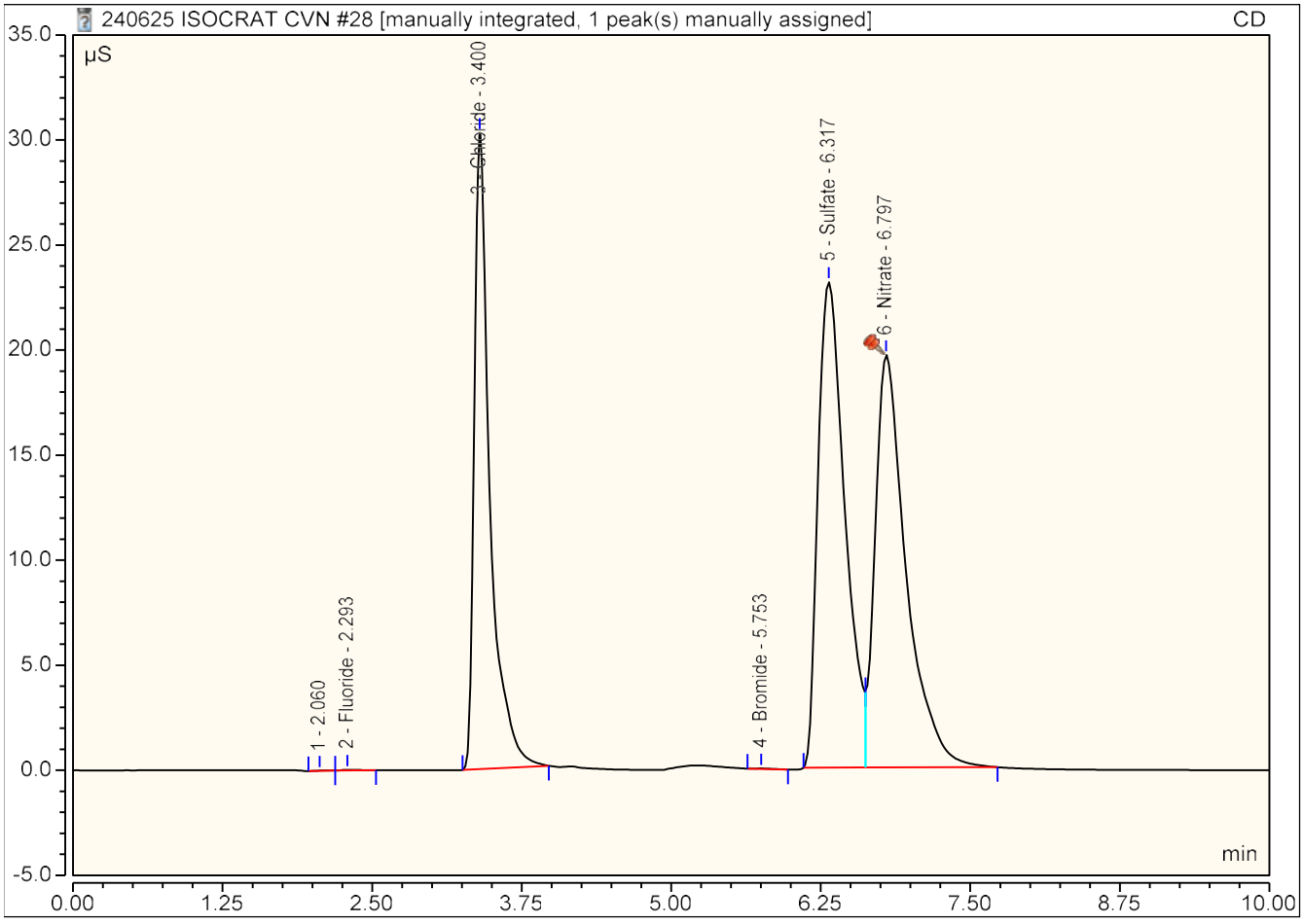
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.29	**Fluoride**	BMB	0.047	0.389	0.1308
3	3.40	**Chloride**	BMB*	9.093	59.504	21.5038
4	5.78	**Bromide**	BMB	0.001	0.008	0.0453
5	6.30	**Sulfate**	BMB	7.128	24.924	23.9248
TOTAL:				16.27	84.83	45.60



Peak Integration Report

Sample Name:	**L2434679-10**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**25-Jun-2024 / 14:54**	*Run Time:*	**10.00**

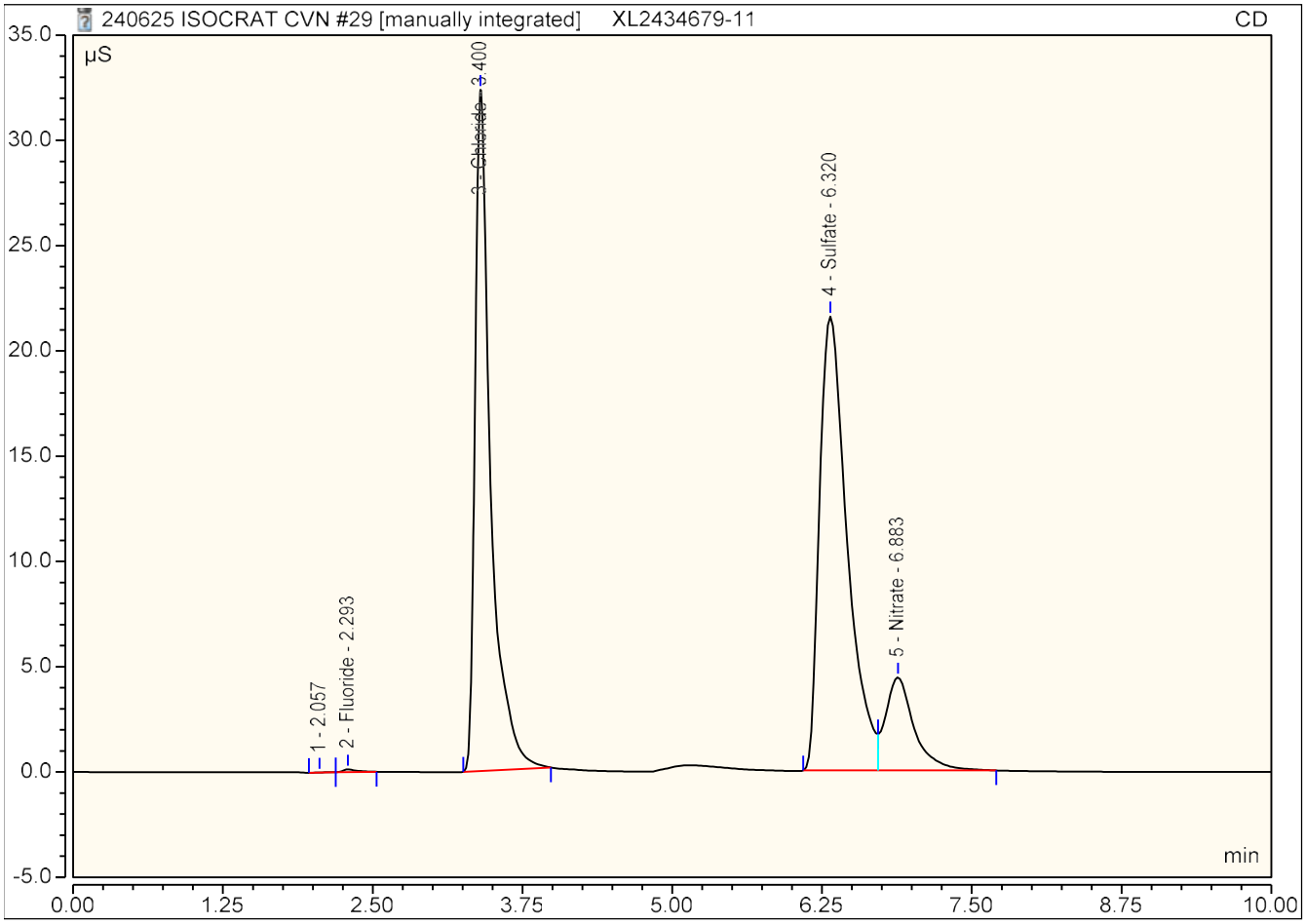
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.29	**Fluoride**	BMB	0.004	0.029	0.0552
3	3.40	**Chloride**	BMB*	4.568	30.283	10.9092
4	5.75	**Bromide**	BMB	0.003	0.019	0.0647
5	6.32	**Sulfate**	BM *	5.990	23.115	20.1420
6	6.80	**Nitrate**	MB*^	5.895	19.625	4.9158
TOTAL:				16.46	73.07	36.09



Peak Integration Report

Sample Name:	**XL2434679-11**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**25-Jun-2024 / 15:07**	*Run Time:*	**10.00**

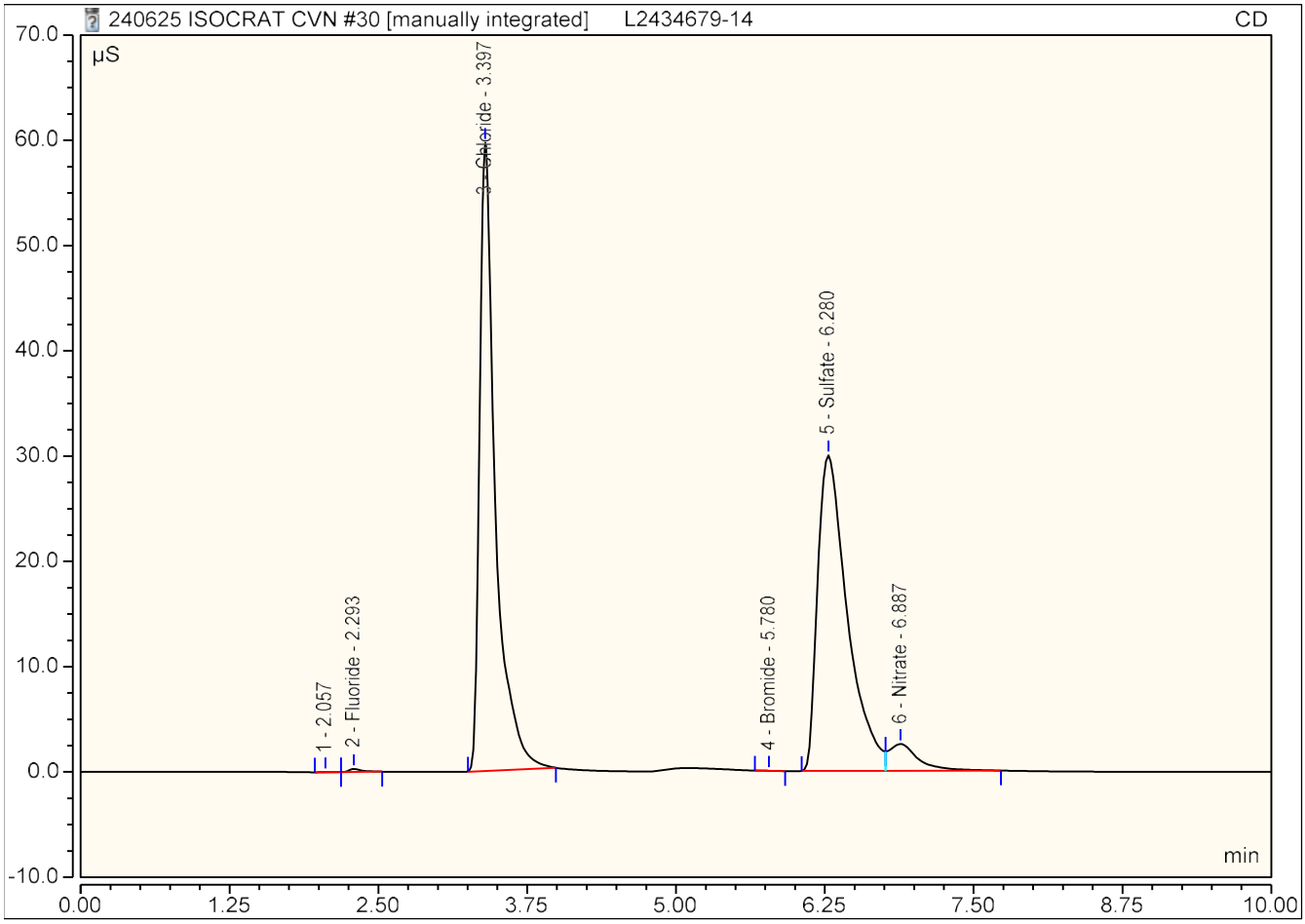
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.29	**Fluoride**	BMB	0.017	0.132	0.0778
3	3.40	**Chloride**	BMB*	4.867	32.347	11.6088
4	6.32	**Sulfate**	BM *	5.772	21.563	19.4170
5	6.88	**Nitrate**	MB*	1.225	4.420	1.0433
TOTAL:				11.88	58.46	32.15



Peak Integration Report

Sample Name:	**L2434679-14**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**25-Jun-2024 / 15:19**	*Run Time:*	**10.00**

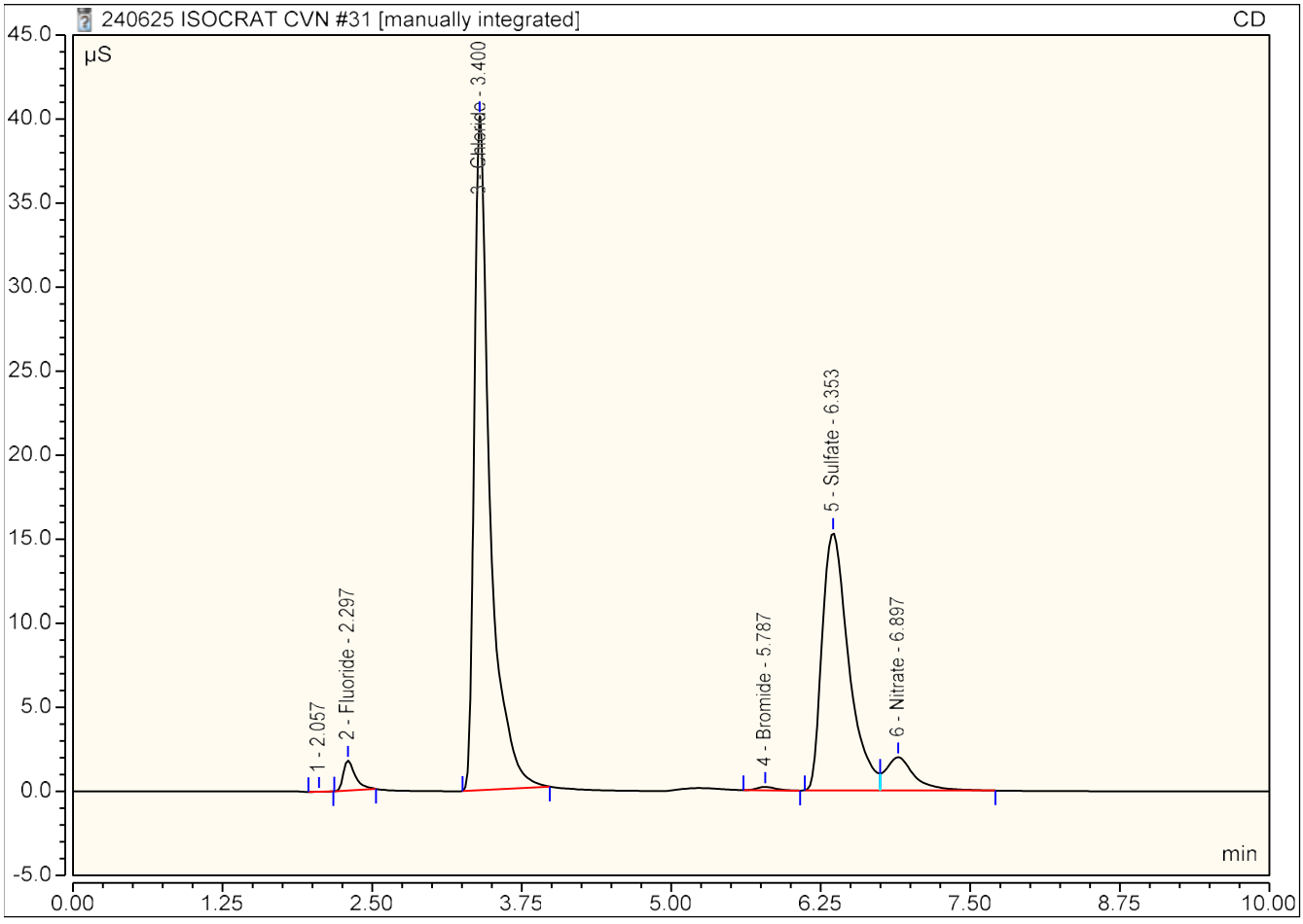
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.29	**Fluoride**	BMB	0.034	0.283	0.1087
3	3.40	**Chloride**	BMB*	9.133	59.672	21.5988
4	5.78	**Bromide**	BMB	0.001	0.007	0.0433
5	6.28	**Sulfate**	BM *	8.665	29.989	29.0345
6	6.89	**Nitrate**	MB*	0.732	2.553	0.6346
TOTAL:				18.57	92.50	51.42



Peak Integration Report

Sample Name:	**L2434679-01 MS**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**25-Jun-2024 / 15:31**	*Run Time:*	**10.00**

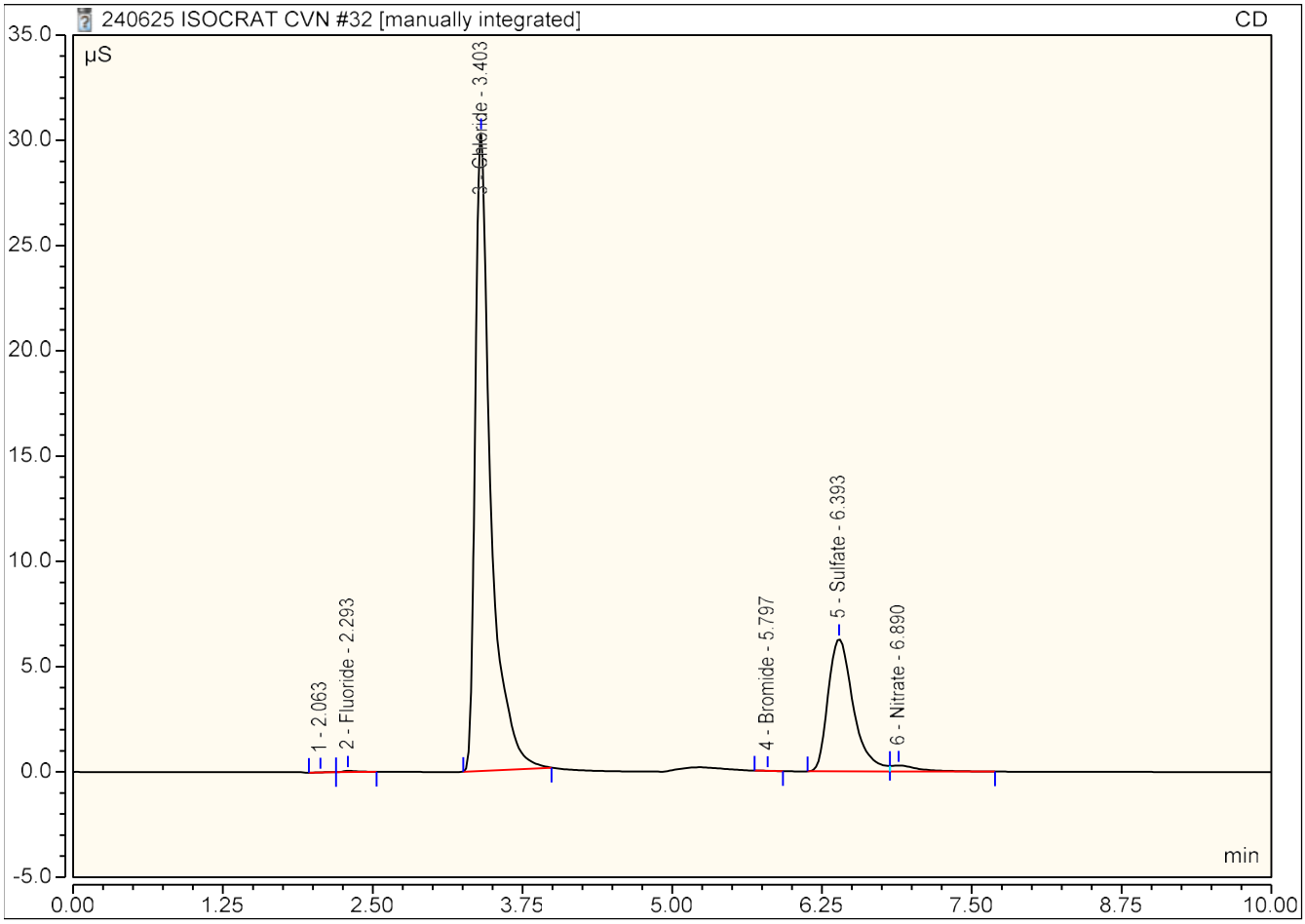
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.30	**Fluoride**	BMB	0.206	1.792	0.4157
3	3.40	**Chloride**	BMB*	6.108	40.104	14.5147
4	5.79	**Bromide**	BMB	0.038	0.207	0.3873
5	6.35	**Sulfate**	BM *	3.938	15.320	13.3236
6	6.90	**Nitrate**	MB*	0.545	1.977	0.4796
TOTAL:				10.84	59.40	29.12



Peak Integration Report

Sample Name:	**L2434679-01 DUP**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**25-Jun-2024 / 15:43**	*Run Time:*	**10.00**

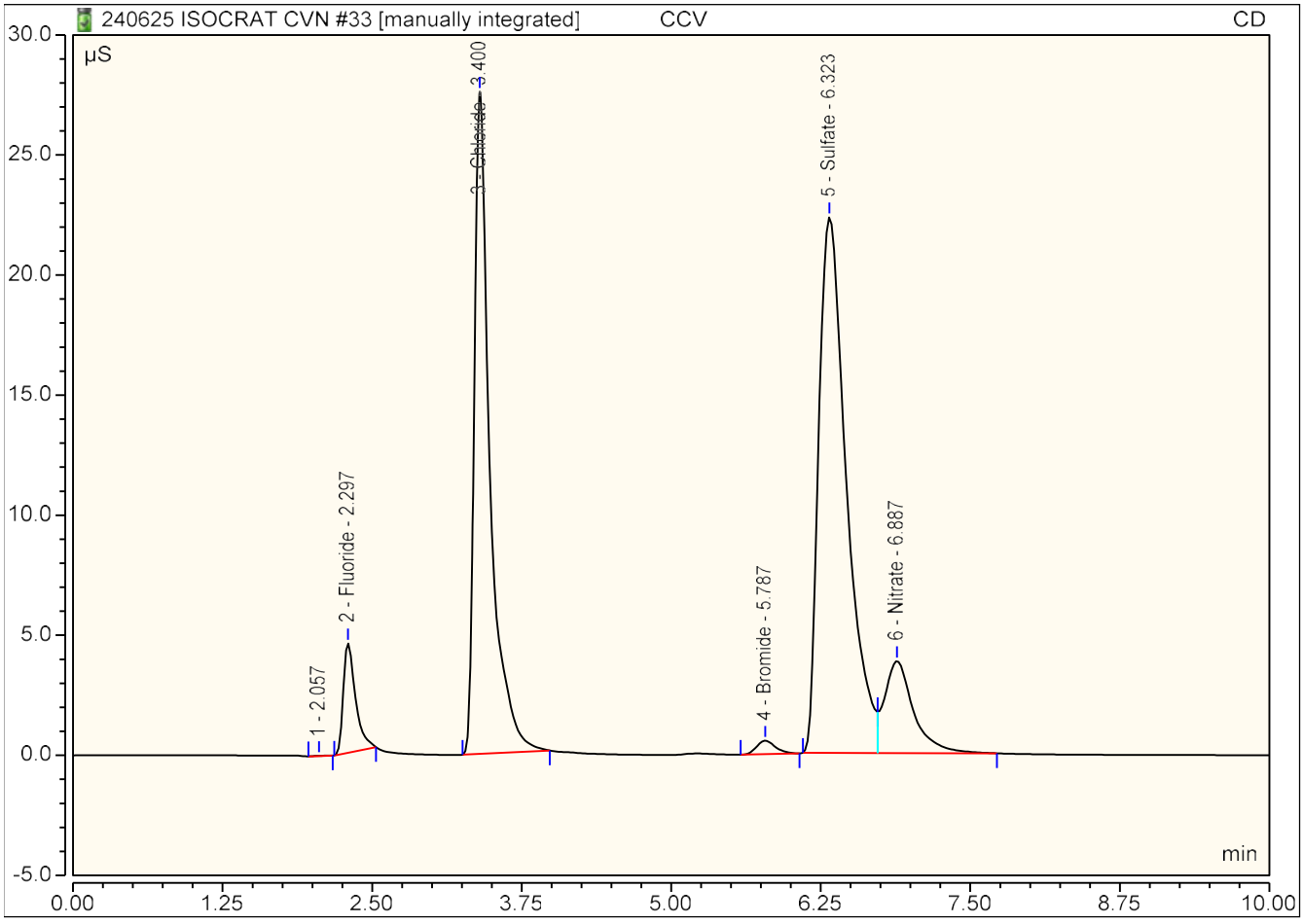
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.29	**Fluoride**	BMB	0.008	0.063	0.0624
3	3.40	**Chloride**	BMB*	4.574	30.293	10.9238
4	5.80	**Bromide**	BMB	0.000	0.003	0.0392
5	6.39	**Sulfate**	BM *	1.532	6.285	5.3252
6	6.89	**Nitrate**	MB*	0.076	0.281	0.0904
TOTAL:				6.19	36.93	16.44



Peak Integration Report

Sample Name:	**CCV**	*Inj. Vol.:*	**25.00**
Injection Type:	**Check Standard**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**25-Jun-2024 / 15:55**	*Run Time:*	**10.00**

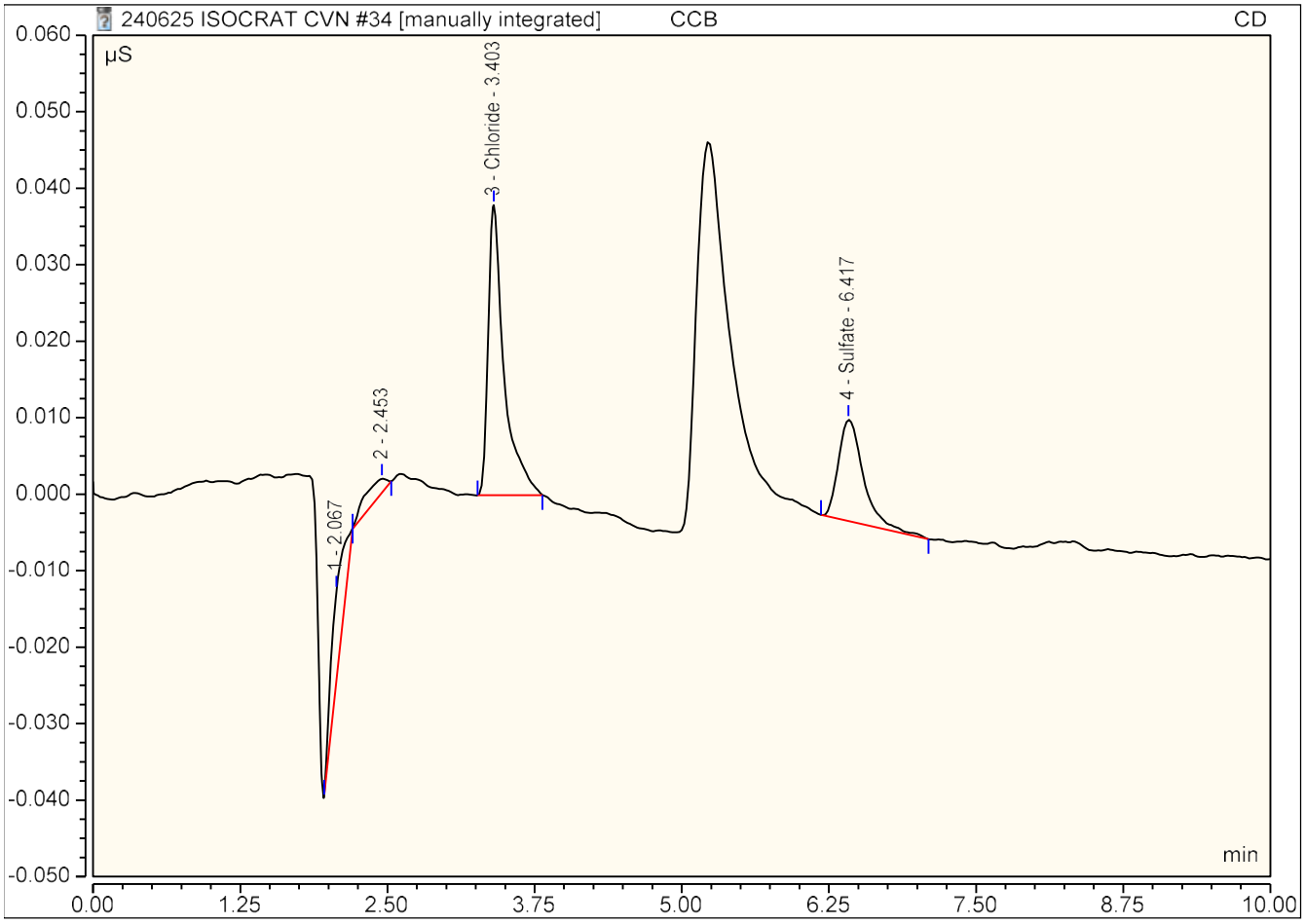
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.30	**Fluoride**	BMB	0.538	4.559	1.0064
3	3.40	**Chloride**	BMB*	4.168	27.578	9.9732
4	5.79	**Bromide**	BMB	0.105	0.570	1.0108
5	6.32	**Sulfate**	BM *	5.992	22.312	20.1487
6	6.89	**Nitrate**	MB*	1.077	3.831	0.9206
TOTAL:				11.88	58.85	33.06



Peak Integration Report

Sample Name:	**CCB**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**25-Jun-2024 / 16:07**	*Run Time:*	**10.00**

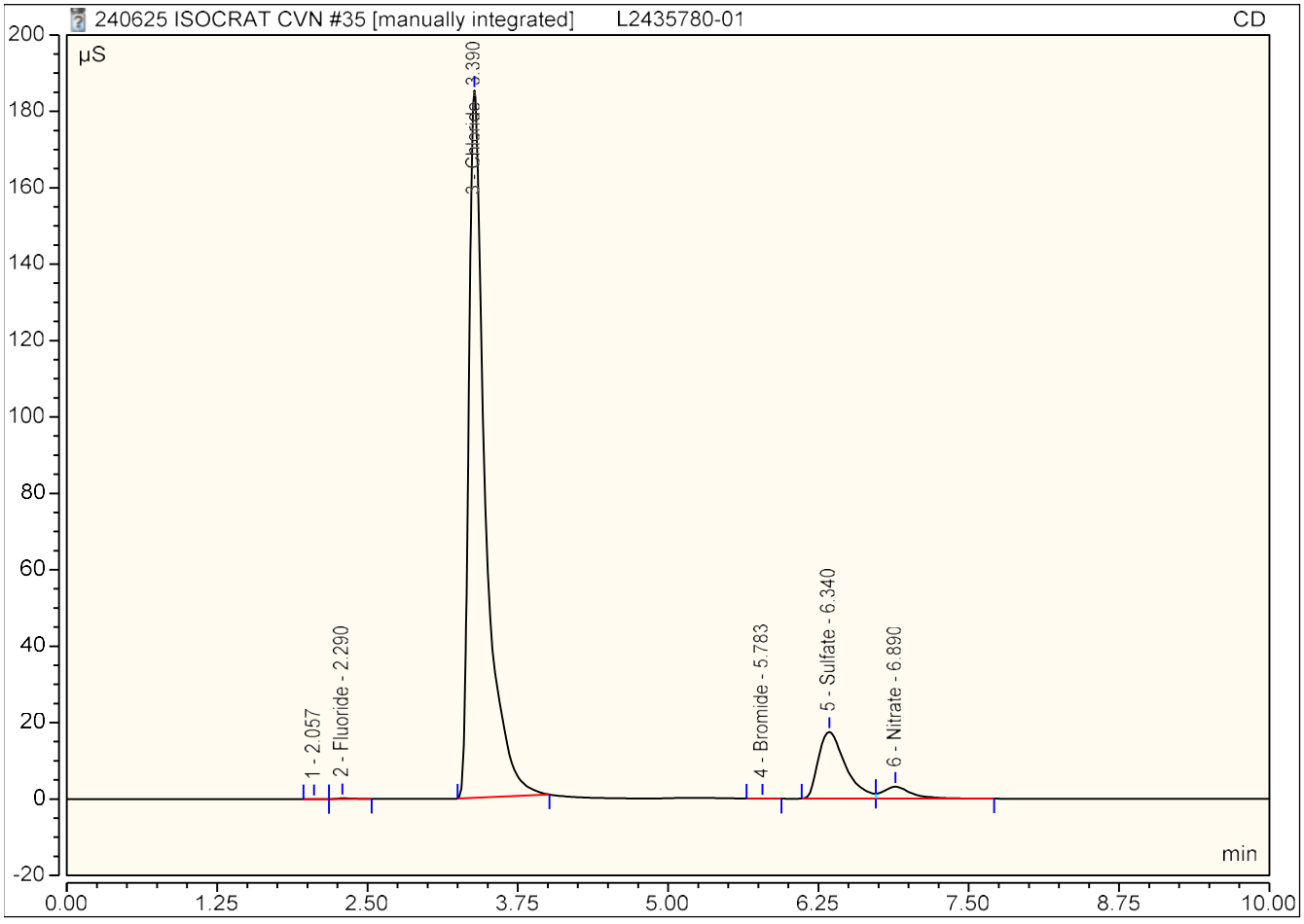
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
3	3.40	**Chloride**	BMB*	0.006	0.038	0.2281
4	6.42	**Sulfate**	BMB	0.003	0.013	0.2440
TOTAL:				0.01	0.05	0.47



Peak Integration Report

Sample Name:	**L2435780-01**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**25-Jun-2024 / 16:19**	*Run Time:*	**10.00**

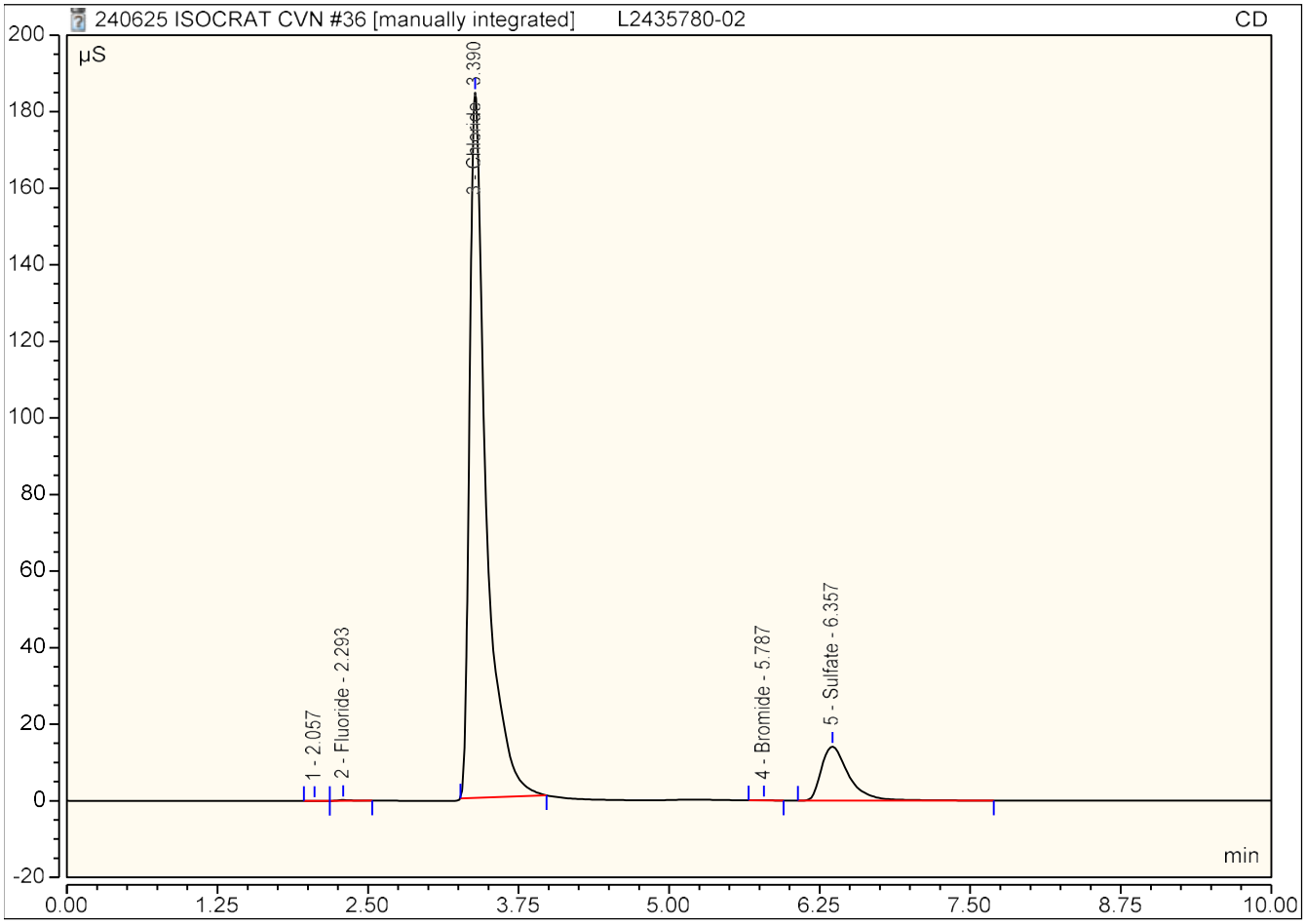
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.29	**Fluoride**	BMB	0.028	0.219	0.0979
3	3.39	**Chloride**	BMB*	29.491	185.134	69.2633
4	5.78	**Bromide**	BMB	0.002	0.014	0.0532
5	6.34	**Sulfate**	BM *	4.547	17.492	15.3456
6	6.89	**Nitrate**	MB*	0.859	3.129	0.7399
TOTAL:				34.93	205.99	85.50



Peak Integration Report

Sample Name:	**L2435780-02**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**25-Jun-2024 / 16:31**	*Run Time:*	**10.00**

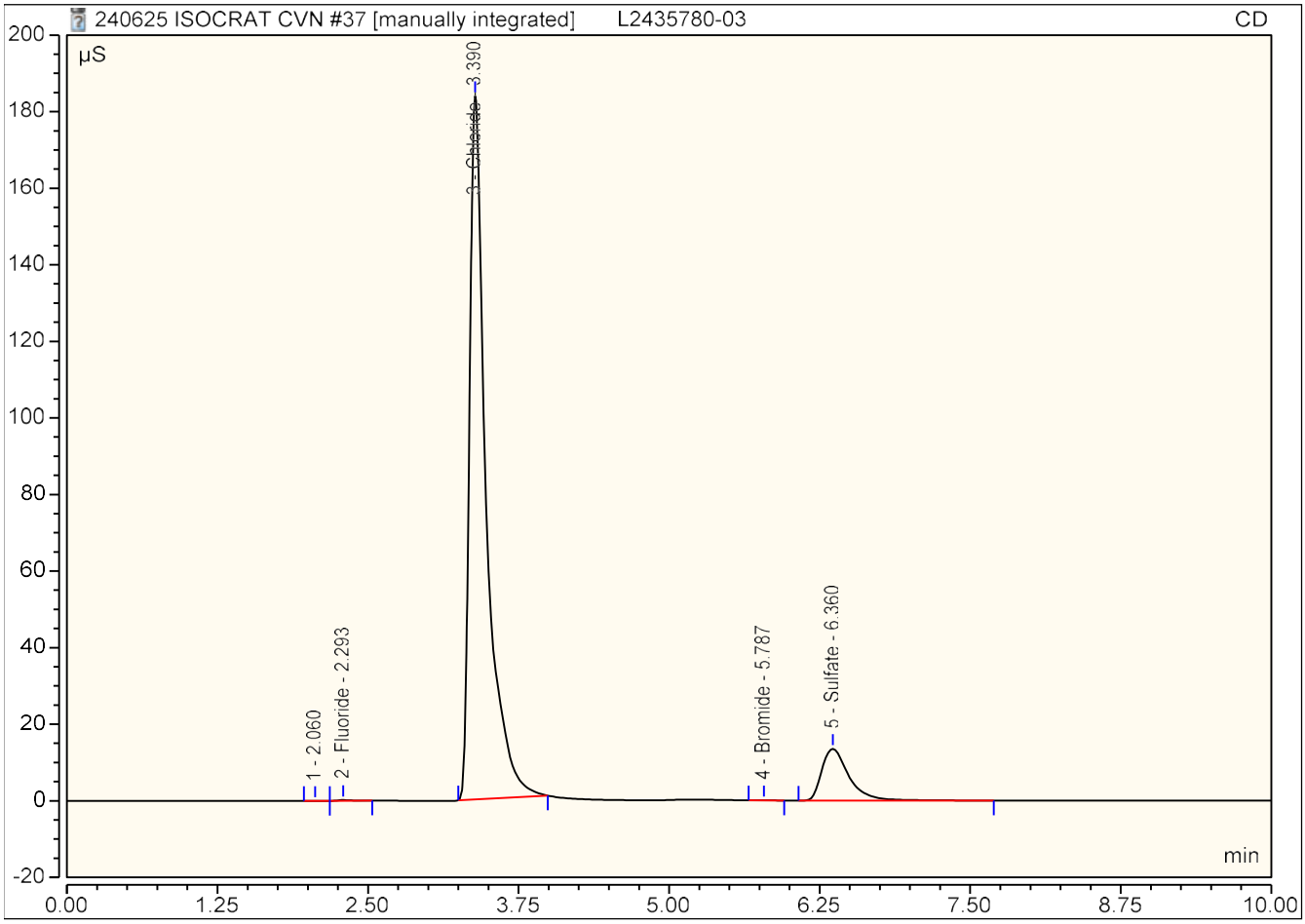
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.29	**Fluoride**	BMB	0.022	0.179	0.0875
3	3.39	**Chloride**	BMB*	29.142	184.179	68.4475
4	5.79	**Bromide**	BMB	0.002	0.011	0.0494
5	6.36	**Sulfate**	BMB	3.720	14.117	12.5965
TOTAL:				32.89	198.49	81.18



Peak Integration Report

Sample Name:	**L2435780-03**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**25-Jun-2024 / 16:43**	*Run Time:*	**10.00**

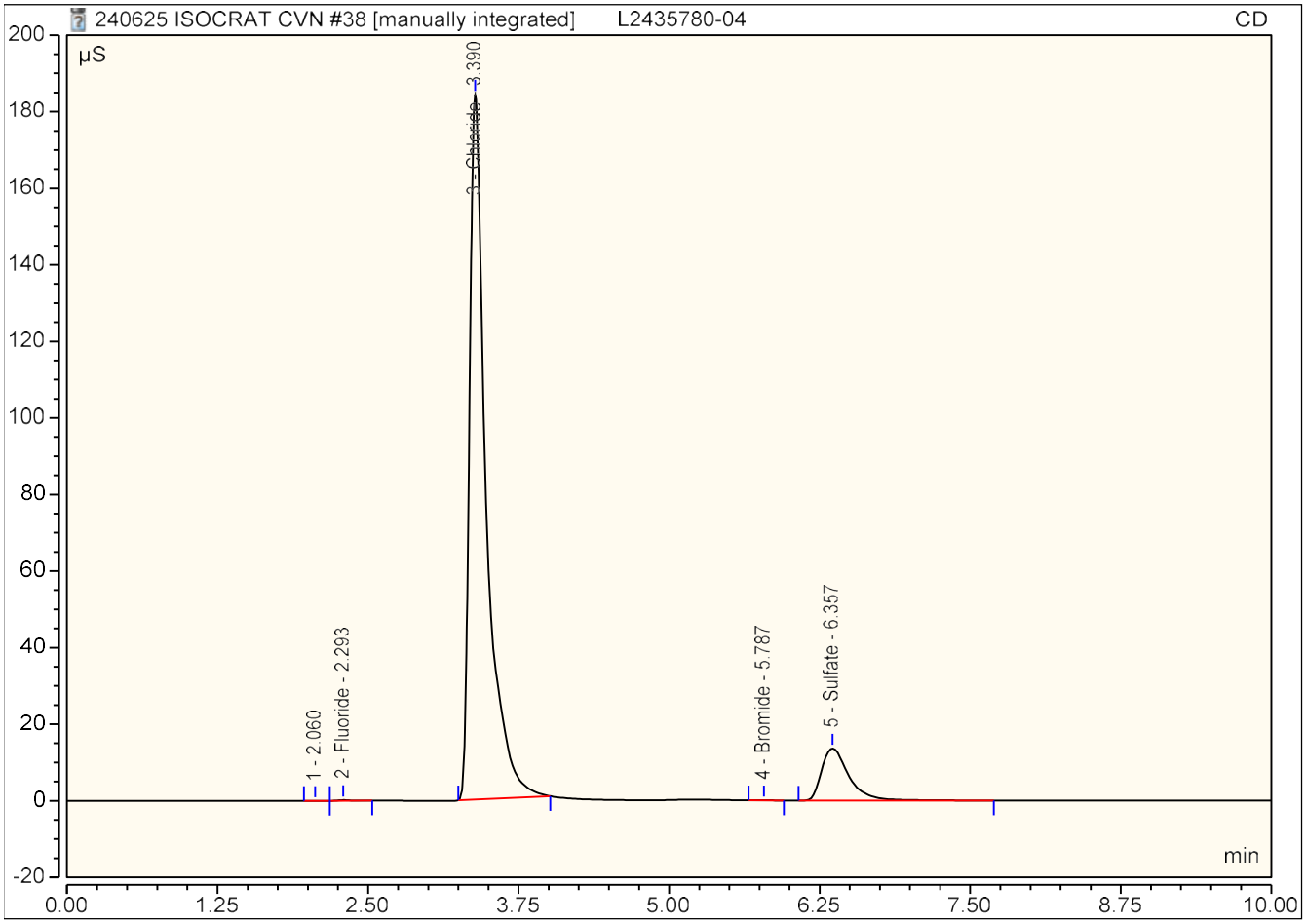
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.29	**Fluoride**	BMB	0.023	0.183	0.0886
3	3.39	**Chloride**	BMB*	29.377	183.793	68.9978
4	5.79	**Bromide**	BMB	0.002	0.011	0.0499
5	6.36	**Sulfate**	BMB	3.534	13.511	11.9794
TOTAL:				32.94	197.50	81.12



Peak Integration Report

Sample Name:	**L2435780-04**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**25-Jun-2024 / 16:55**	*Run Time:*	**10.00**

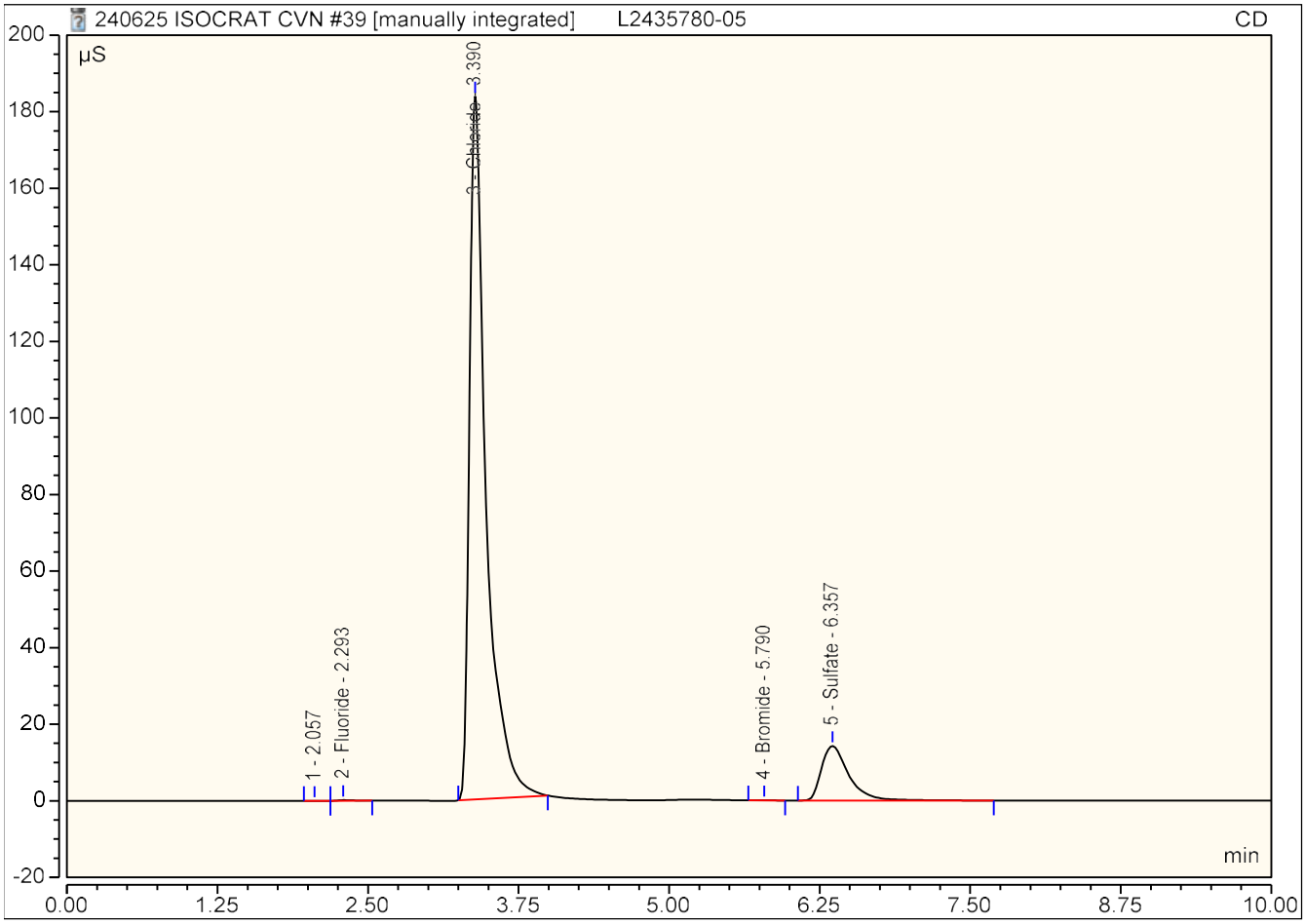
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.29	**Fluoride**	BMB	0.022	0.175	0.0862
3	3.39	**Chloride**	BMB*	29.522	184.156	69.3361
4	5.79	**Bromide**	BMB	0.001	0.011	0.0493
5	6.36	**Sulfate**	BMB	3.571	13.624	12.1022
TOTAL:				33.12	197.97	81.57



Peak Integration Report

Sample Name:	**L2435780-05**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**25-Jun-2024 / 17:07**	*Run Time:*	**10.00**

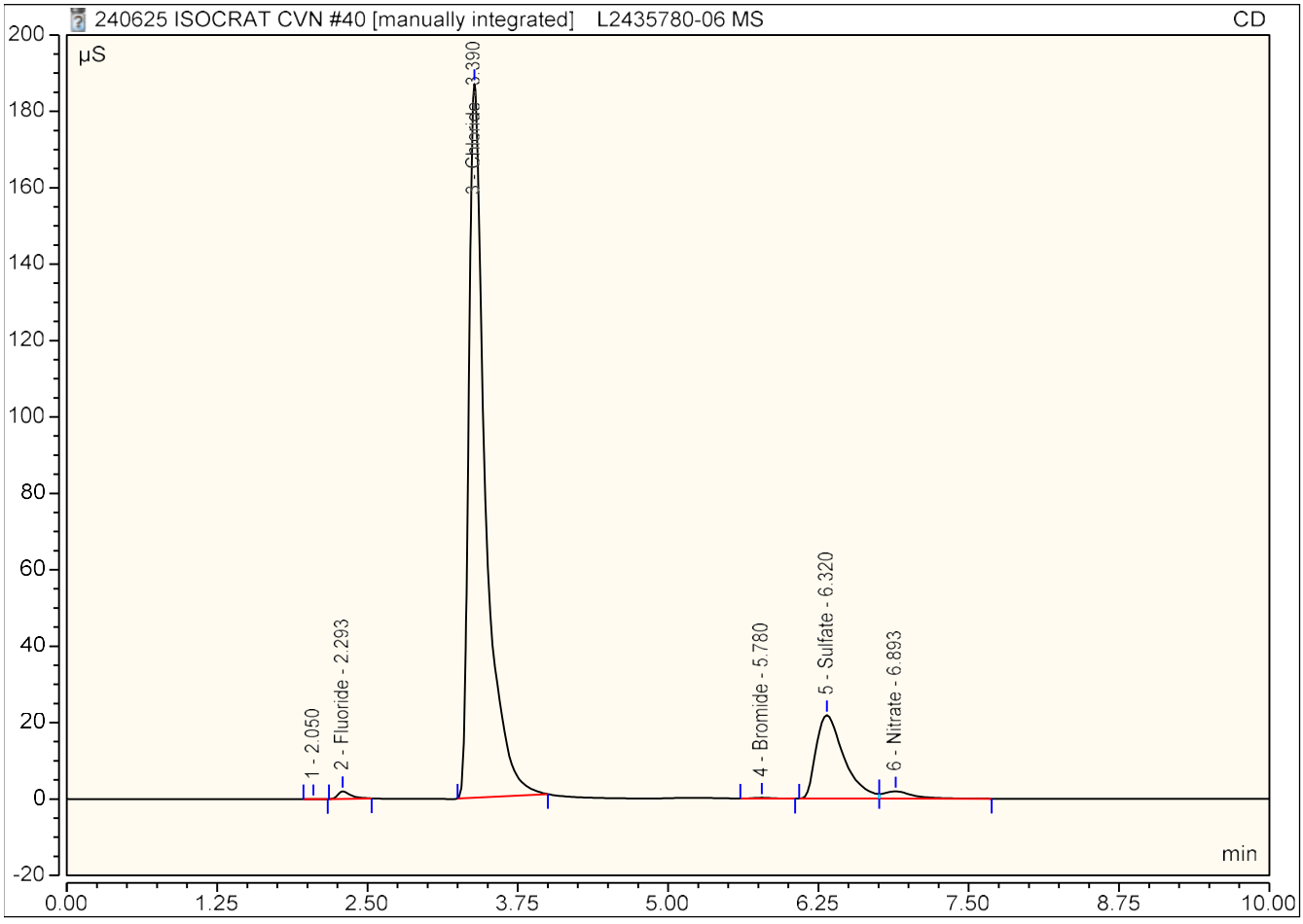
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.29	**Fluoride**	BMB	0.024	0.171	0.0906
3	3.39	**Chloride**	BMB*	29.364	183.622	68.9669
4	5.79	**Bromide**	BMB	0.002	0.012	0.0509
5	6.36	**Sulfate**	BMB	3.747	14.250	12.6870
TOTAL:				33.14	198.06	81.80



Peak Integration Report

Sample Name:	**L2435780-06 MS**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**25-Jun-2024 / 17:19**	*Run Time:*	**10.00**

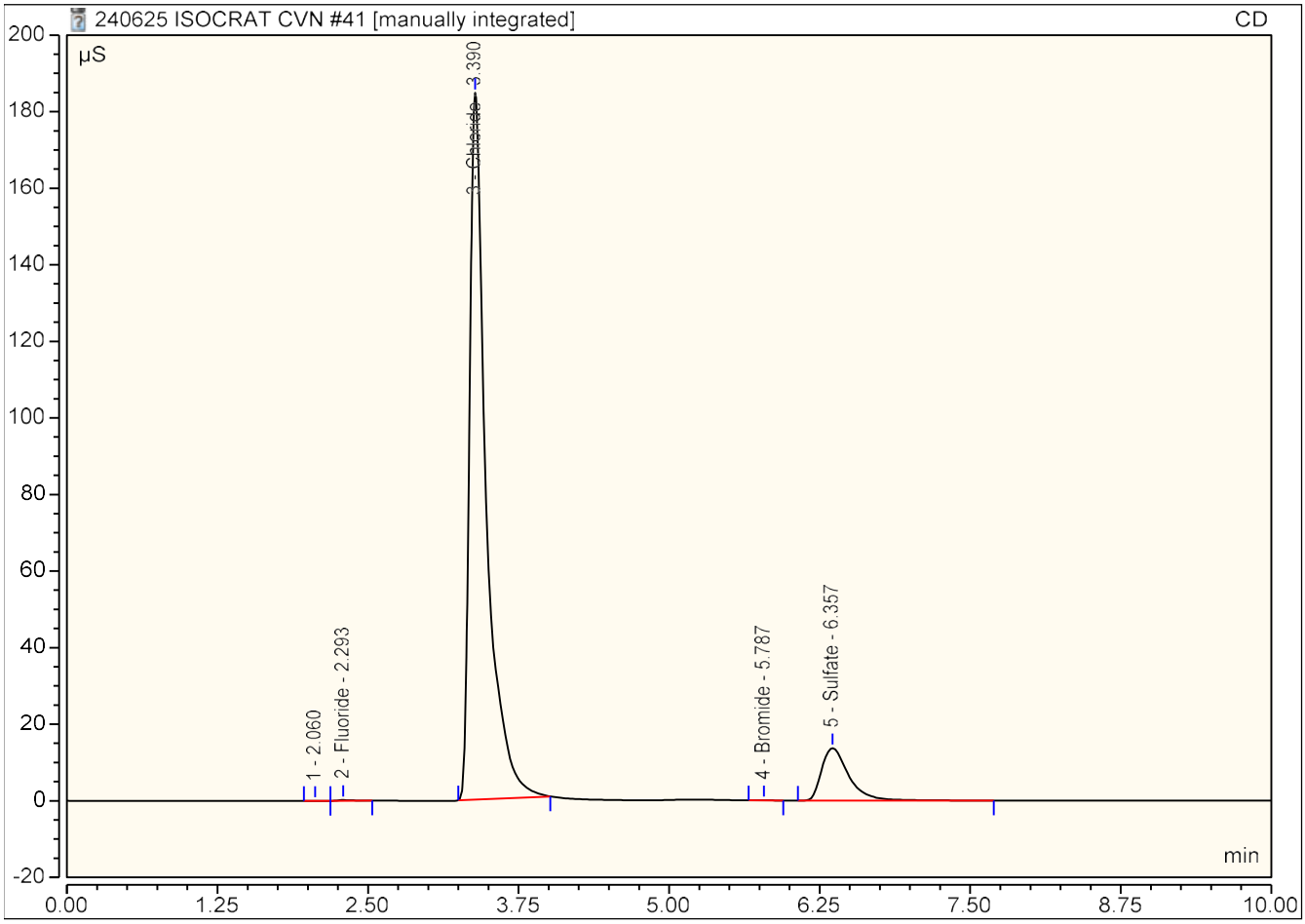
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.29	**Fluoride**	BMB	0.241	2.014	0.4766
3	3.39	**Chloride**	BMB*	29.853	186.867	70.1120
4	5.78	**Bromide**	BMB	0.039	0.220	0.4036
5	6.32	**Sulfate**	BM *	5.875	21.826	19.7604
6	6.89	**Nitrate**	MB*	0.539	1.920	0.4745
TOTAL:				36.55	212.85	91.23



Peak Integration Report

Sample Name:	**L2435780-06 DUP**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**25-Jun-2024 / 17:32**	*Run Time:*	**10.00**

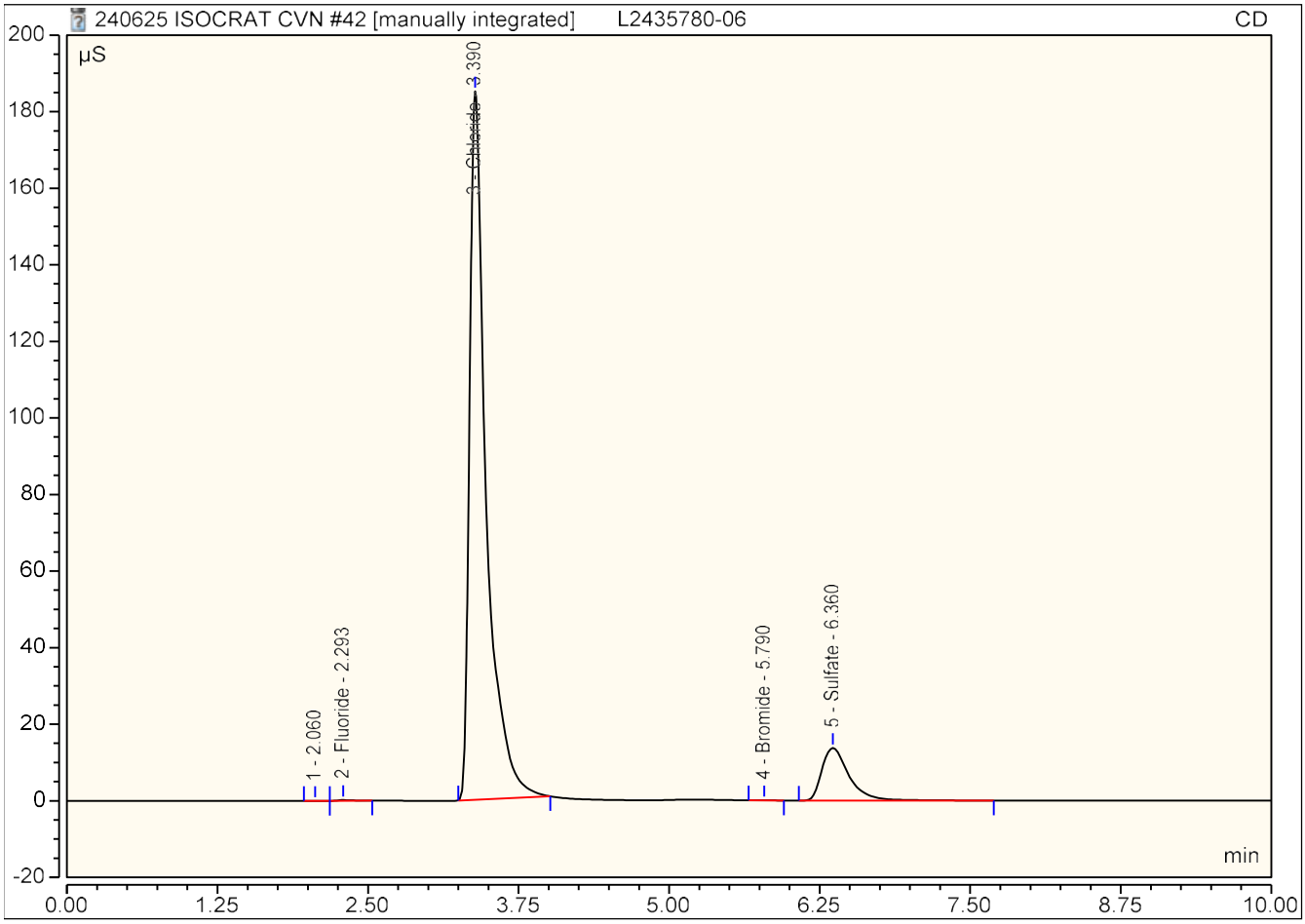
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.29	**Fluoride**	BMB	0.026	0.185	0.0938
3	3.39	**Chloride**	BMB*	29.474	184.587	69.2243
4	5.79	**Bromide**	BMB	0.001	0.011	0.0485
5	6.36	**Sulfate**	BMB	3.586	13.698	12.1530
TOTAL:				33.09	198.48	81.52



Peak Integration Report

Sample Name:	**L2435780-06**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**25-Jun-2024 / 17:44**	*Run Time:*	**10.00**

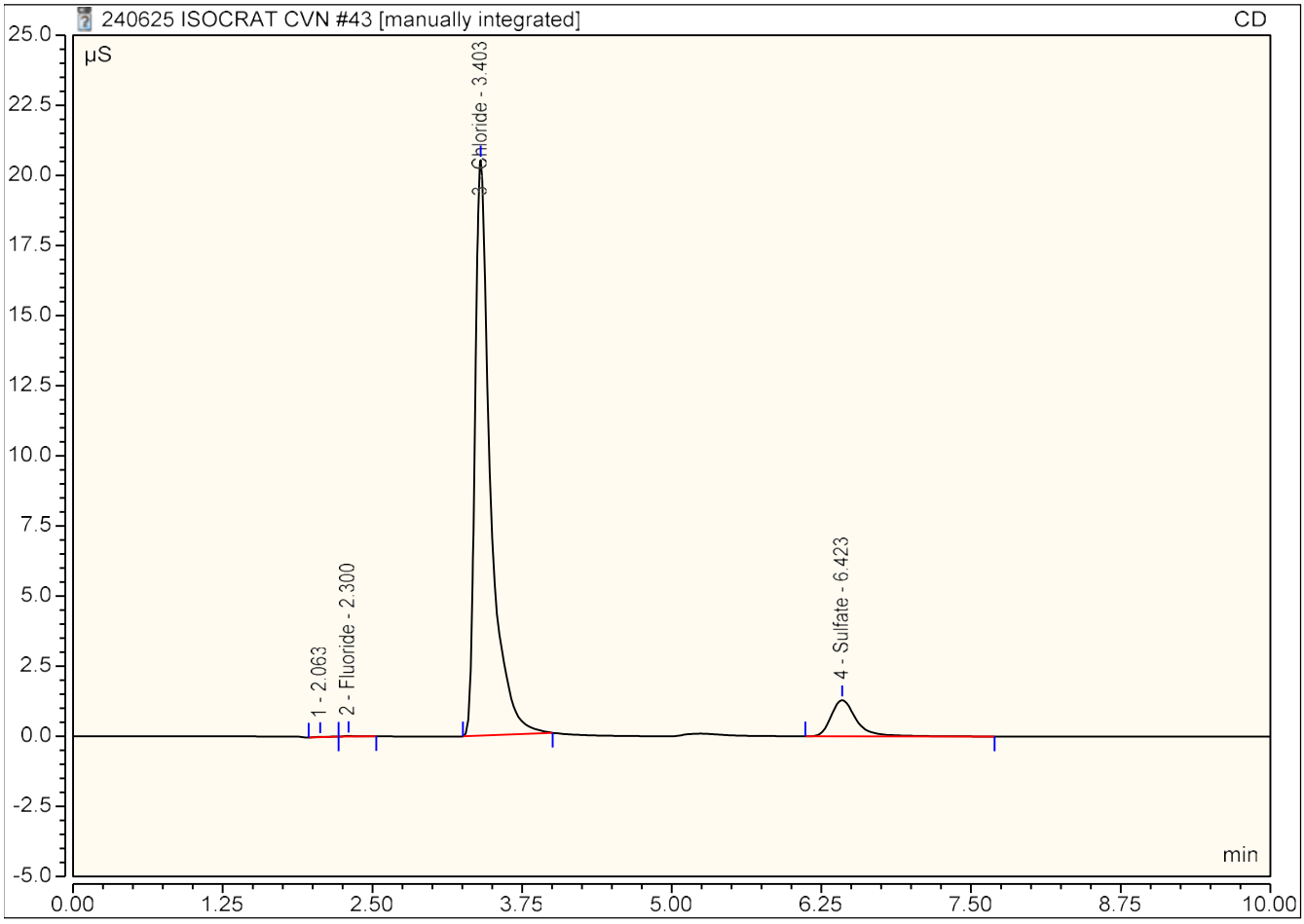
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.29	**Fluoride**	BMB	0.026	0.184	0.0935
3	3.39	**Chloride**	BMB*	29.491	185.041	69.2646
4	5.79	**Bromide**	BMB	0.002	0.011	0.0500
5	6.36	**Sulfate**	BMB	3.584	13.726	12.1459
TOTAL:				33.10	198.96	81.55



Peak Integration Report

Sample Name:	**XL2435780-06; 10X**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**10.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**25-Jun-2024 / 17:56**	*Run Time:*	**10.00**

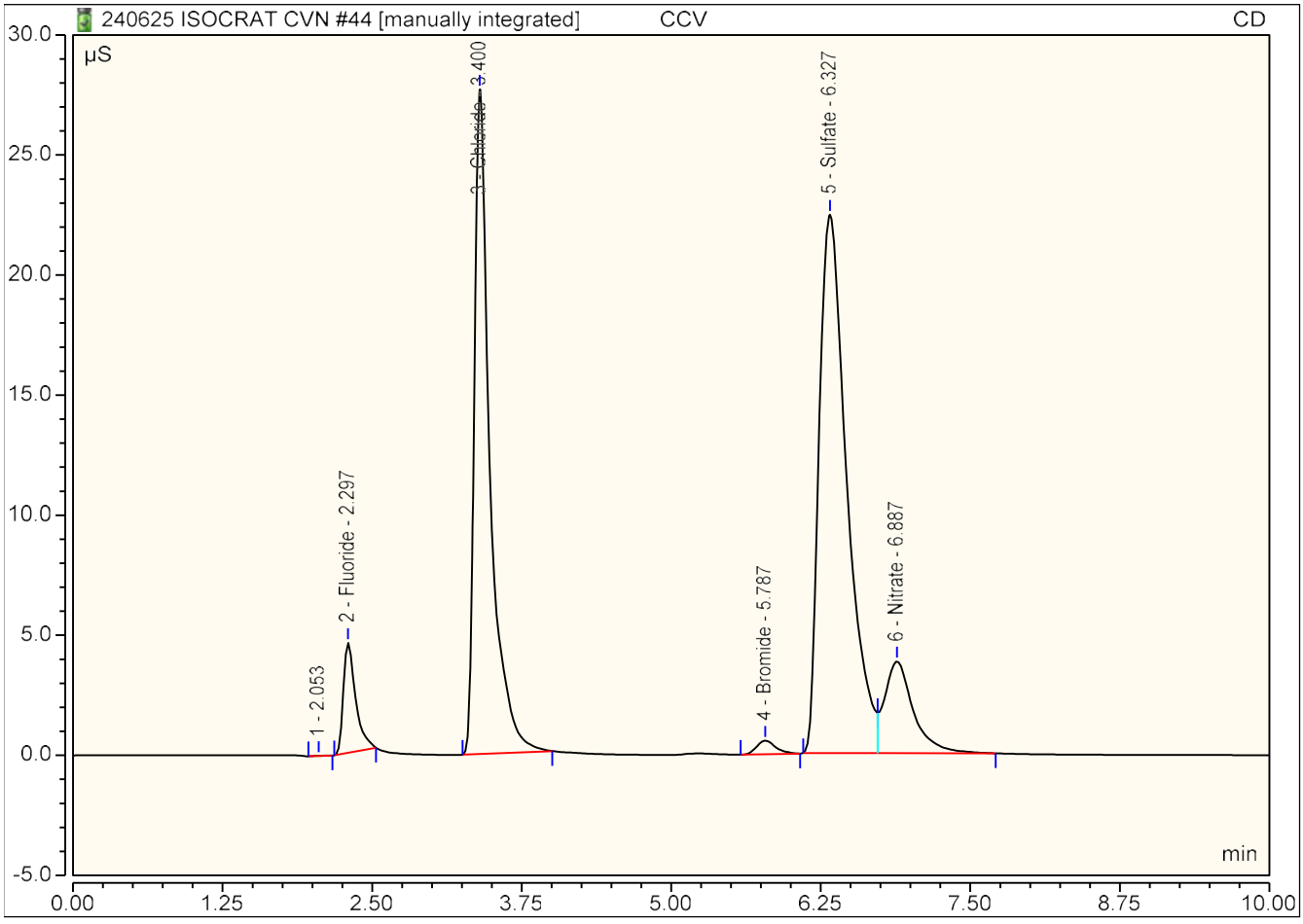
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.30	**Fluoride**	BMB	0.003	0.018	0.5311
3	3.40	**Chloride**	BMB*	3.069	20.513	74.0097
4	6.42	**Sulfate**	BMB	0.319	1.291	12.9178
TOTAL:				3.39	21.82	87.46



Peak Integration Report

Sample Name:	**CCV**	*Inj. Vol.:*	**25.00**
Injection Type:	**Check Standard**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**25-Jun-2024 / 18:08**	*Run Time:*	**10.00**

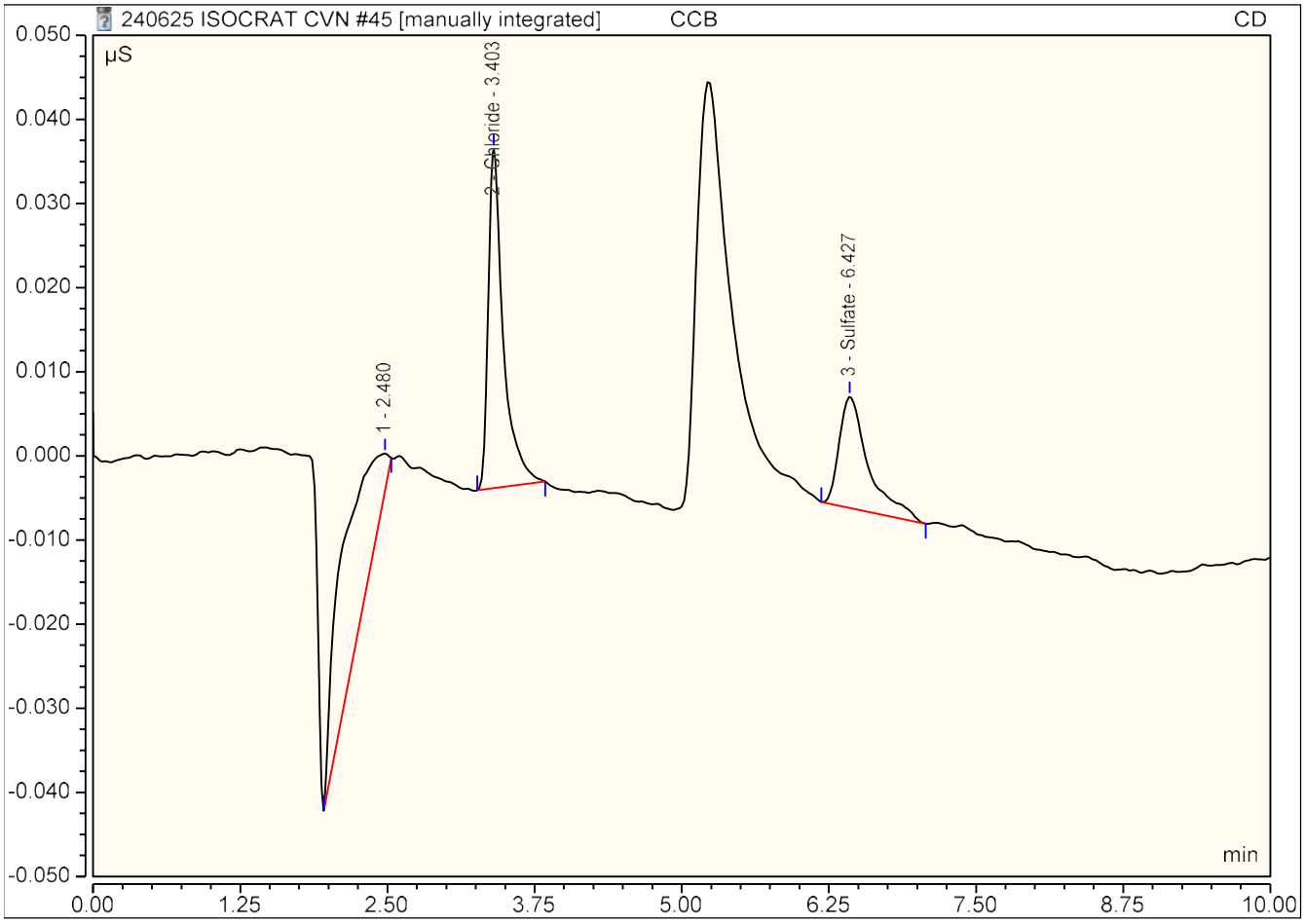
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.30	**Fluoride**	BMB	0.543	4.580	1.0160
3	3.40	**Chloride**	BMB*	4.177	27.674	9.9935
4	5.79	**Bromide**	BMB	0.105	0.571	1.0190
5	6.33	**Sulfate**	BM *	6.005	22.424	20.1915
6	6.89	**Nitrate**	MB*	1.067	3.827	0.9120
TOTAL:				11.90	59.08	33.13



Peak Integration Report

Sample Name:	**CCB**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**25-Jun-2024 / 18:20**	*Run Time:*	**10.00**

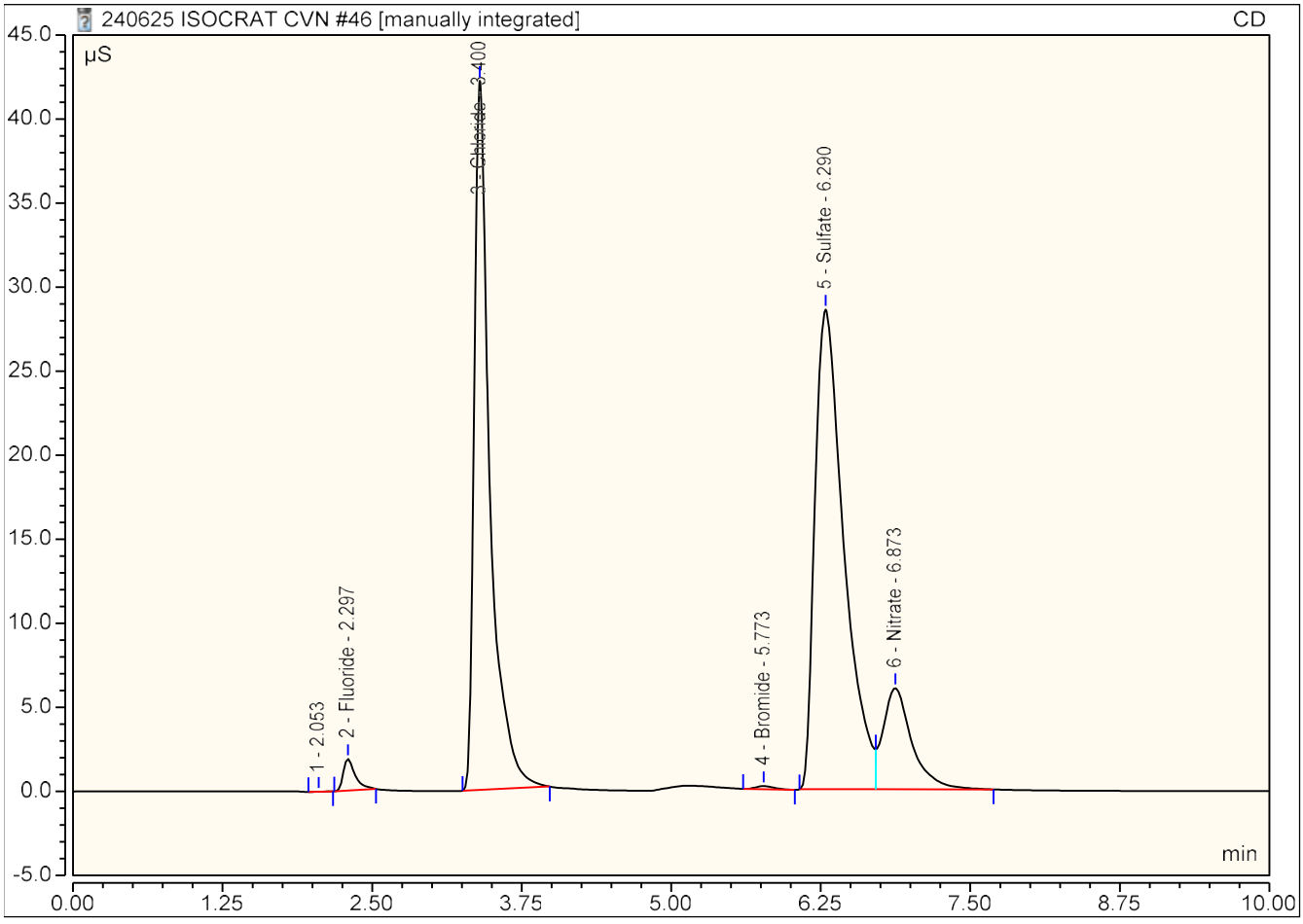
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	3.40	**Chloride**	BMB*	0.006	0.040	0.2282
3	6.43	**Sulfate**	BMB	0.004	0.013	0.2457
TOTAL:				0.01	0.05	0.47



Peak Integration Report

Sample Name:	**L2434679-11 MS**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**25-Jun-2024 / 18:32**	*Run Time:*	**10.00**

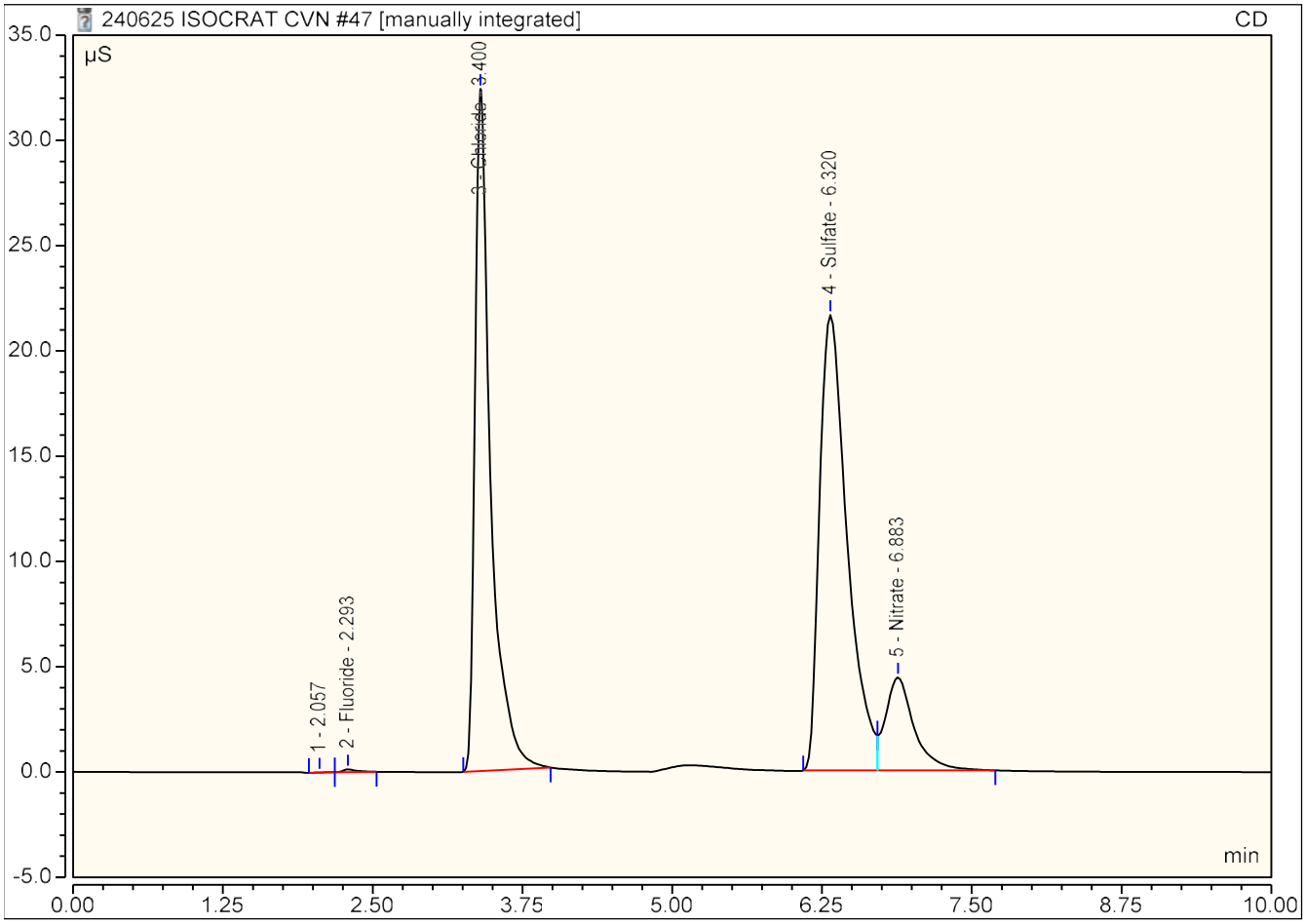
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.30	**Fluoride**	BMB	0.218	1.890	0.4356
3	3.40	**Chloride**	BMB*	6.375	42.182	15.1406
4	5.77	**Bromide**	BMB	0.034	0.193	0.3501
5	6.29	**Sulfate**	BM *	8.001	28.536	26.8267
6	6.87	**Nitrate**	MB*	1.686	6.028	1.4255
TOTAL:				16.31	78.83	44.18



Peak Integration Report

Sample Name:	**L2434679-11 DUP**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**25-Jun-2024 / 18:44**	*Run Time:*	**10.00**

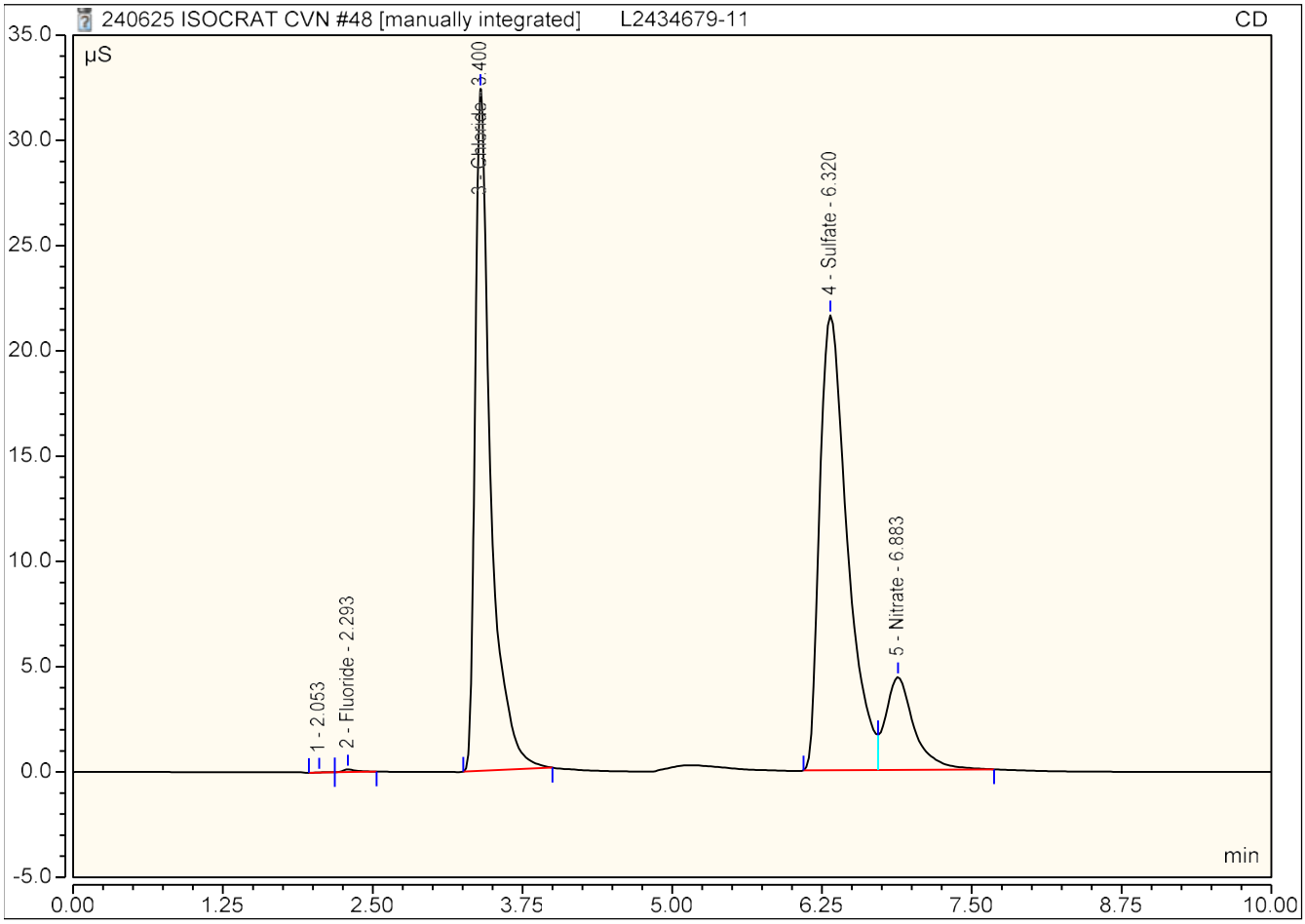
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.29	**Fluoride**	BMB	0.017	0.134	0.0781
3	3.40	**Chloride**	BMB*	4.866	32.390	11.6074
4	6.32	**Sulfate**	BM *	5.774	21.631	19.4244
5	6.88	**Nitrate**	MB*	1.225	4.415	1.0433
TOTAL:				11.88	58.57	32.15



Peak Integration Report

Sample Name:	**L2434679-11**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**25-Jun-2024 / 18:56**	*Run Time:*	**10.00**

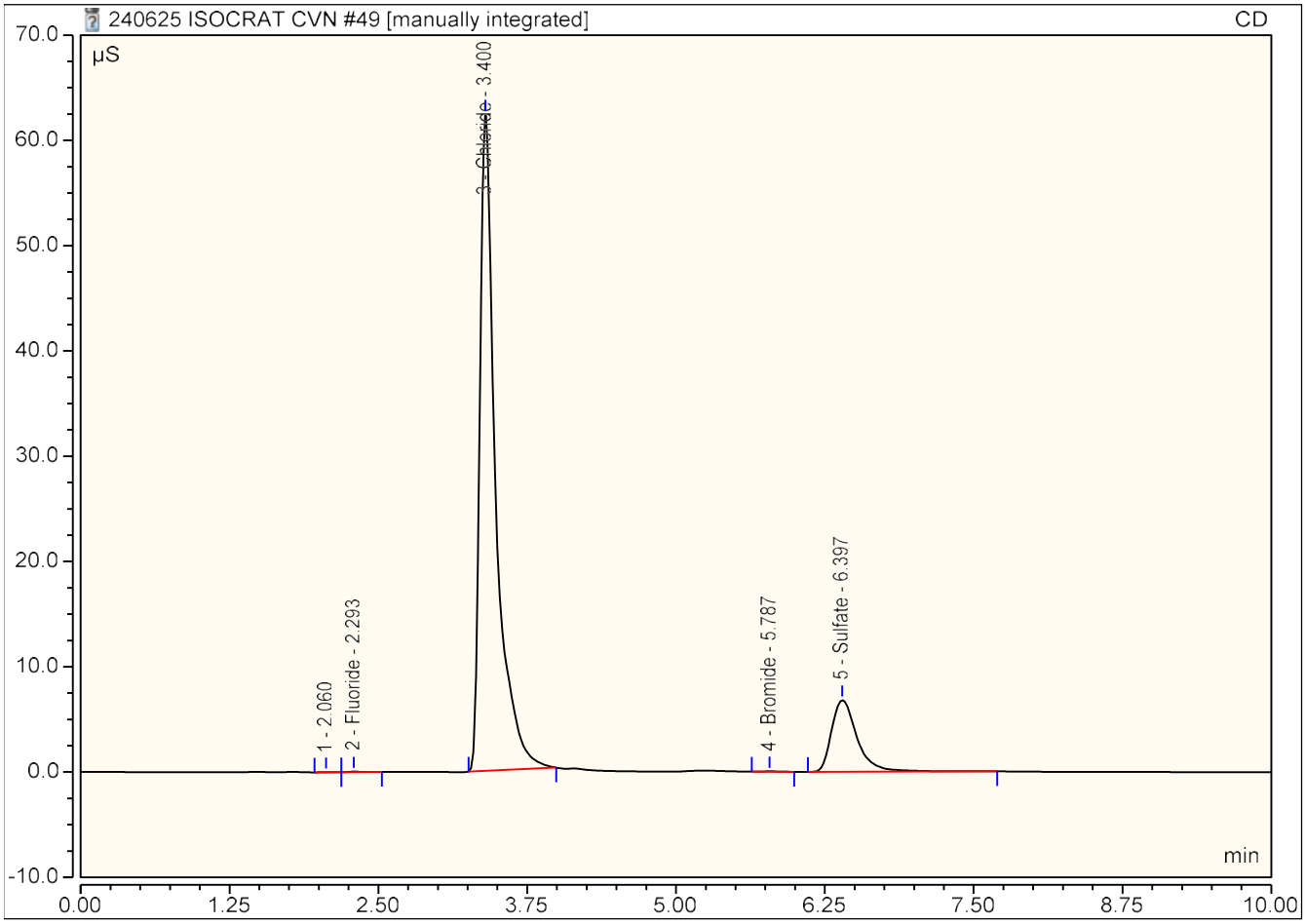
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.29	**Fluoride**	BMB	0.017	0.131	0.0775
3	3.40	**Chloride**	BMB*	4.871	32.390	11.6194
4	6.32	**Sulfate**	BM *	5.768	21.600	19.4041
5	6.88	**Nitrate**	MB*	1.216	4.402	1.0356
TOTAL:				11.87	58.52	32.14



Peak Integration Report

Sample Name:	**L2435599-01 EFF CL; 50X**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**50.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**25-Jun-2024 / 19:08**	*Run Time:*	**10.00**

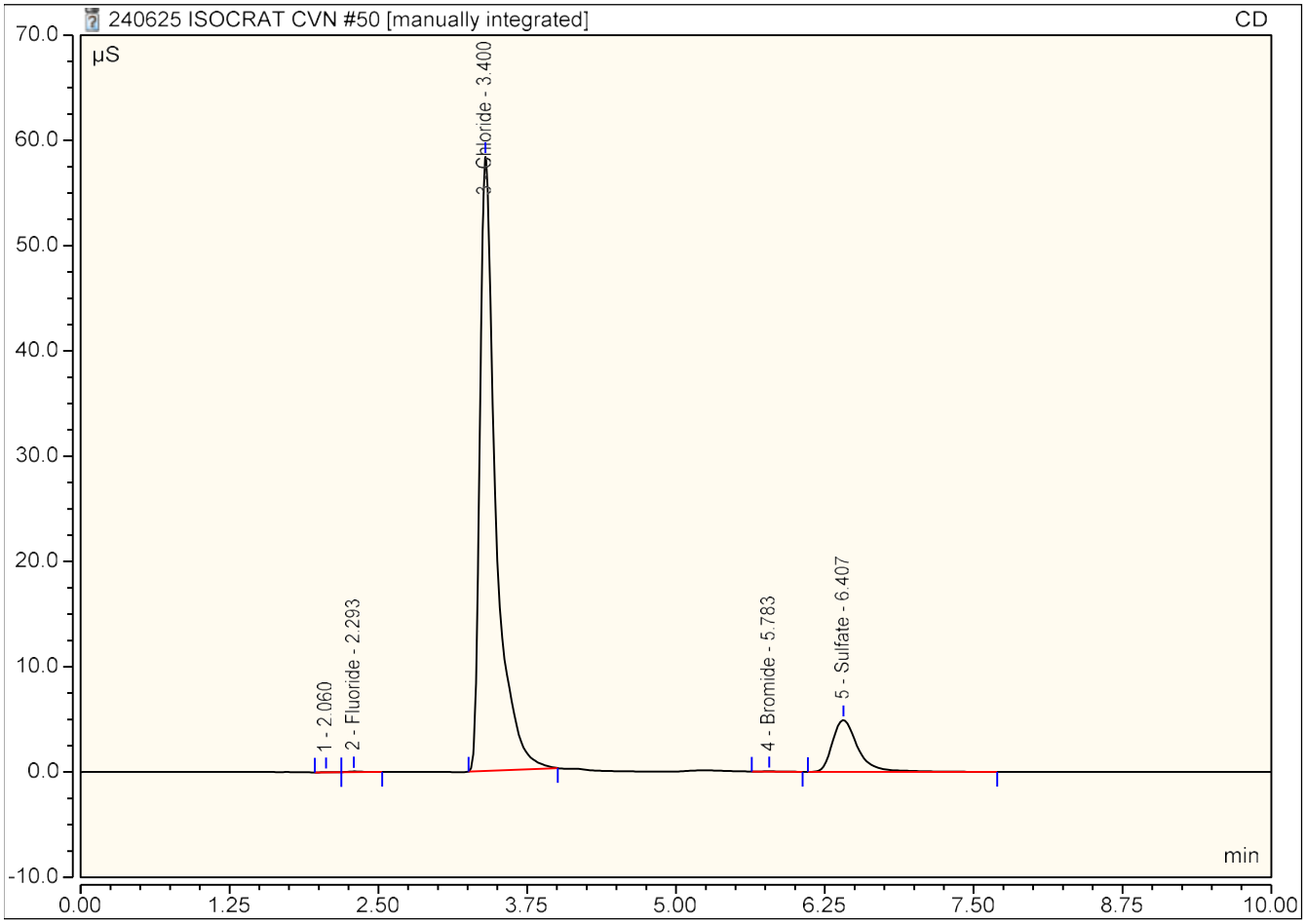
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.29	**Fluoride**	BMB	0.005	0.040	2.8544
3	3.40	**Chloride**	BMB*	9.619	62.355	1136.8171
4	5.79	**Bromide**	BMB	0.005	0.031	4.1979
5	6.40	**Sulfate**	BMB	1.692	6.800	292.8977
TOTAL:				11.32	69.23	1436.77



Peak Integration Report

Sample Name:	**L2435599-02 INF; 50X**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**50.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**25-Jun-2024 / 19:20**	*Run Time:*	**10.00**

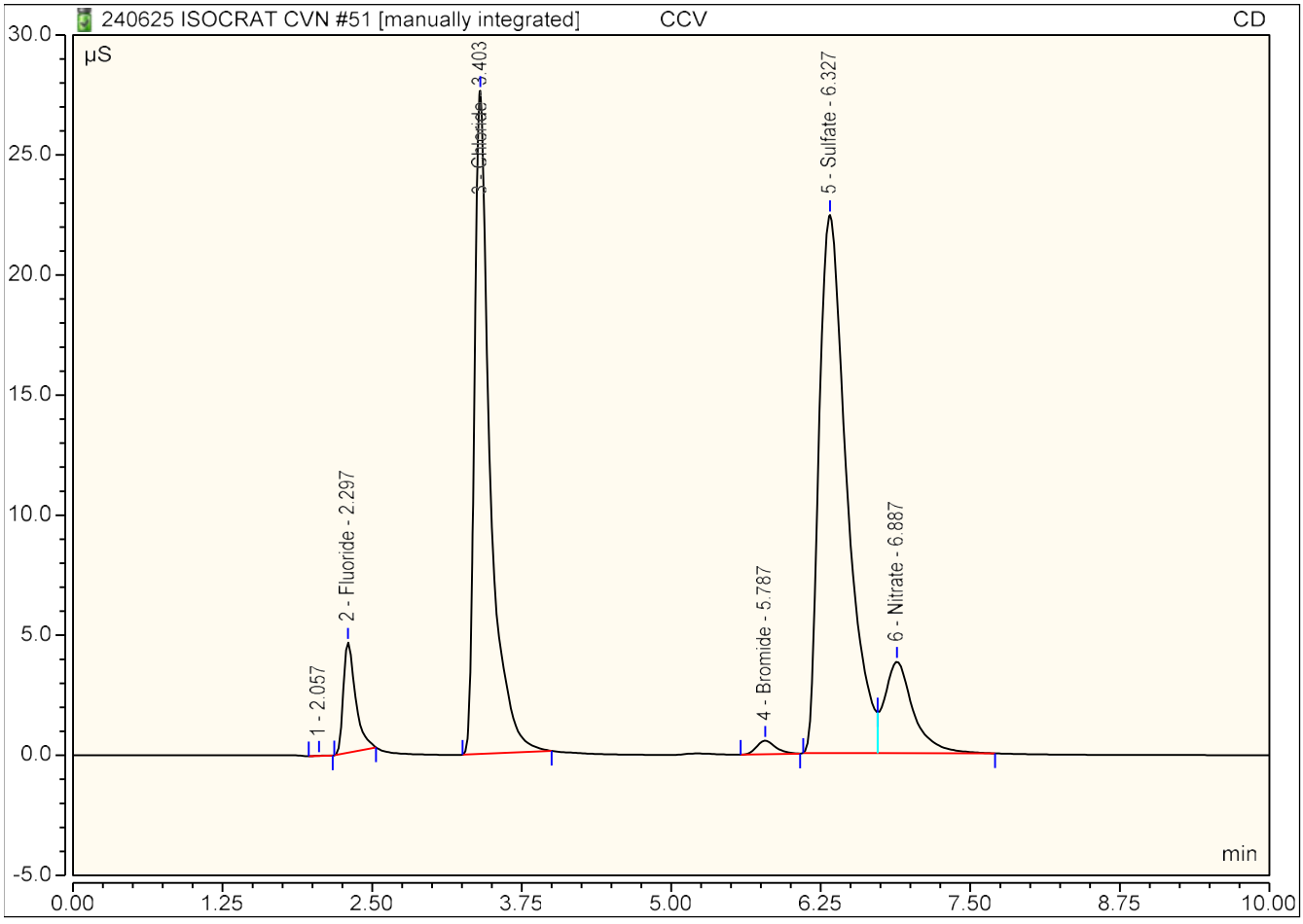
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.29	**Fluoride**	BMB	0.009	0.065	3.1418
3	3.40	**Chloride**	BMB*	9.011	58.333	1065.6520
4	5.78	**Bromide**	BMB	0.004	0.024	3.6395
5	6.41	**Sulfate**	BMB	1.220	4.907	214.4868
TOTAL:				10.24	63.33	1286.92



Peak Integration Report

Sample Name:	**CCV**	*Inj. Vol.:*	**25.00**
Injection Type:	**Check Standard**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**25-Jun-2024 / 19:32**	*Run Time:*	**10.00**

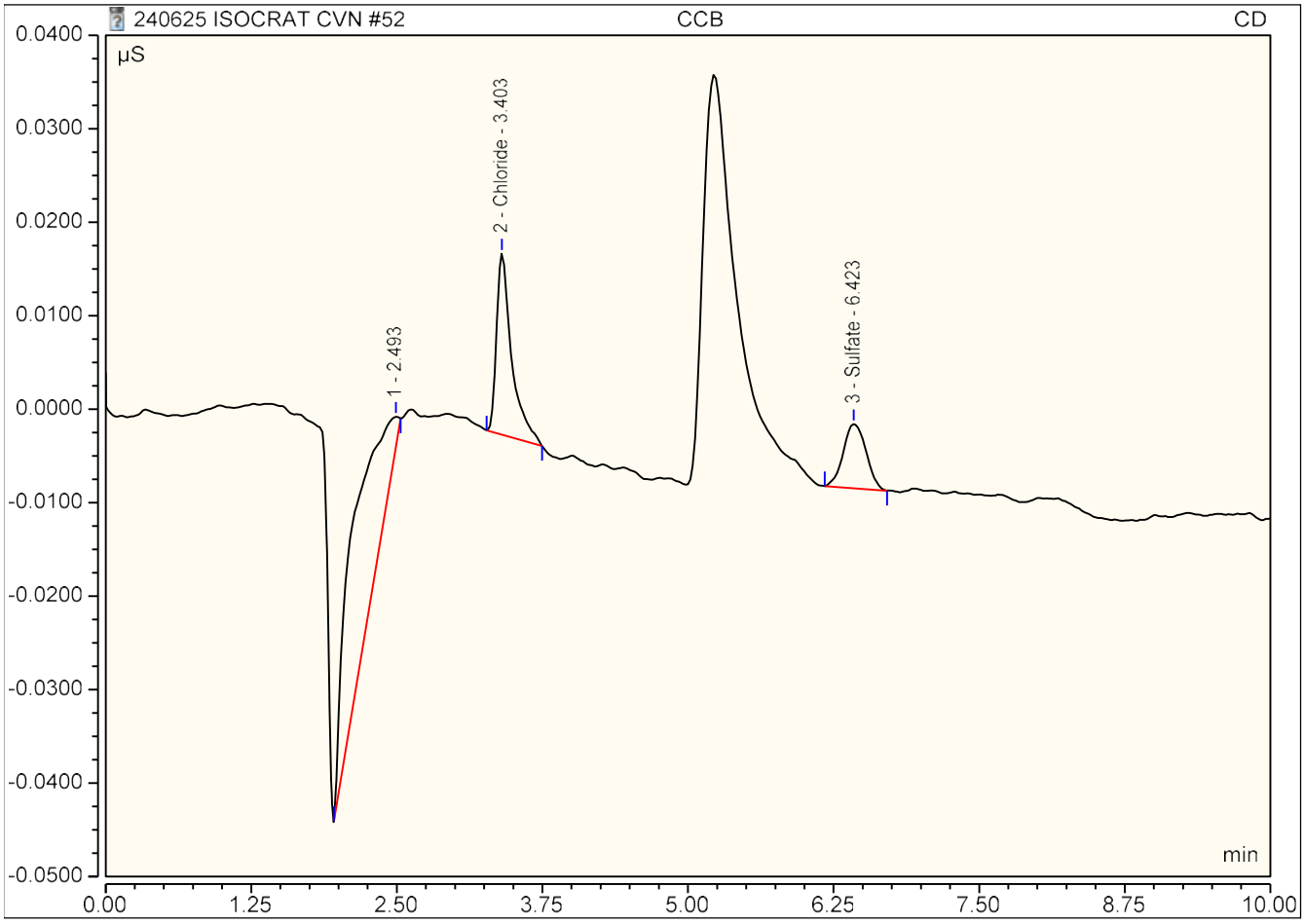
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.30	**Fluoride**	BMB	0.543	4.591	1.0151
3	3.40	**Chloride**	BMB*	4.177	27.620	9.9931
4	5.79	**Bromide**	BMB	0.105	0.568	1.0140
5	6.33	**Sulfate**	BM *	6.002	22.400	20.1829
6	6.89	**Nitrate**	MB*	1.065	3.811	0.9106
TOTAL:				11.89	58.99	33.12



Peak Integration Report

Sample Name:	**CCB**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**25-Jun-2024 / 19:44**	*Run Time:*	**10.00**

No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	3.40	**Chloride**	BMB	0.003	0.019	0.2210
3	6.42	**Sulfate**	BMB	0.002	0.007	0.2383
TOTAL:				0.00	0.03	0.46



Anion Summary Report

No.	Name	Dilution	Amount CD Fluoride	Amount CD Chloride	Amount CD Nitrate	Amount CD Sulfate	Amount CD Bromide
1	BLANK	1.0	n.a.	0.2207	n.a.	0.2430	n.a.
2	STD 0.5	1.0	0.0627	0.4051	0.0520	0.5886	0.0477
3	STD 1.0	1.0	0.0765	0.5901	0.0654	0.9801	0.0697
4	STD 2.0	1.0	0.1819	1.9641	0.1814	3.8369	0.1902
5	STD 3.0	1.0	0.4532	4.9324	0.4668	9.9697	0.4562
6	STD 4.0	1.0	1.9929	19.7530	2.0094	40.1924	2.0111
7	STD 5.0	1.0	5.0078	50.1053	5.2913	99.9323	4.6573
8	RINSE	1.0	0.0673	0.2459	n.a.	0.2368	n.a.
9	CCV	1.0	1.0097	9.7696	0.9517	19.4736	1.0618
10	CCB	1.0	n.a.	0.2240	n.a.	0.2409	n.a.
11	XICV FAIL BR	1.0	0.8119	8.1298	0.7687	7.8251	0.8955
12	ICV	1.0	0.8057	8.1278	0.7685	7.8254	0.8668
13	ICB	1.0	n.a.	0.2273	n.a.	0.2454	n.a.
14	BLK	1.0	n.a.	0.2335	n.a.	0.2501	n.a.
15	LCS	1.0	0.8135	8.1560	0.7669	7.8696	0.8705
16	L2434679-01	1.0	0.0621	10.8695	0.0903	5.2817	0.0401
17	L2434679-02	1.0	0.1011	21.3445	n.a.	30.6310	0.0426
18	L2434679-03	1.0	0.0890	21.1561	n.a.	21.0455	0.0546
19	L2434679-04	1.0	0.1106	20.4017	n.a.	16.0424	0.0928
20	XL2434679-06; 10X	10.0	0.4840	22.5073	0.5723	22.5406	n.a.
21	CCV	1.0	1.0010	9.9690	0.9224	20.1077	1.0305
22	CCB	1.0	n.a.	0.2289	n.a.	0.2430	n.a.
23	L2434679-05	1.0	0.0737	14.7304	0.9390	16.9981	0.0406
24	L2434679-06	1.0	0.0832	20.5375	0.2833	21.4789	0.0434
25	L2434679-07	1.0	0.0641	21.5641	1.4805	27.3774	0.0454
26	L2434679-08	1.0	0.0773	11.6742	1.0535	19.5553	0.0377
27	L2434679-09	1.0	0.1308	21.5038	n.a.	23.9248	0.0453
28	L2434679-10	1.0	0.0552	10.9092	4.9158	20.1420	0.0647
29	XL2434679-11	1.0	0.0778	11.6088	1.0433	19.4170	n.a.
30	L2434679-14	1.0	0.1087	21.5988	0.6346	29.0345	0.0433
31	L2434679-01 MS	1.0	0.4157	14.5147	0.4796	13.3236	0.3873
32	L2434679-01 DUP	1.0	0.0624	10.9238	0.0904	5.3252	0.0392
33	CCV	1.0	1.0064	9.9732	0.9206	20.1487	1.0108
34	CCB	1.0	n.a.	0.2281	n.a.	0.2440	n.a.
35	L2435780-01	1.0	0.0979	69.2633	0.7399	15.3456	0.0532
36	L2435780-02	1.0	0.0875	68.4475	n.a.	12.5965	0.0494
37	L2435780-03	1.0	0.0886	68.9978	n.a.	11.9794	0.0499
38	L2435780-04	1.0	0.0862	69.3361	n.a.	12.1022	0.0493
39	L2435780-05	1.0	0.0906	68.9669	n.a.	12.6870	0.0509
40	L2435780-06 MS	1.0	0.4766	70.1120	0.4745	19.7604	0.4036
41	L2435780-06 DUP	1.0	0.0938	69.2243	n.a.	12.1530	0.0485
42	L2435780-06	1.0	0.0935	69.2646	n.a.	12.1459	0.0500

43	XL2435780-06; 10X	10.0	0.5311	74.0097	n.a.	12.9178	n.a.
44	CCV	1.0	1.0160	9.9935	0.9120	20.1915	1.0190
45	CCB	1.0	n.a.	0.2282	n.a.	0.2457	n.a.
46	L2434679-11 MS	1.0	0.4356	15.1406	1.4255	26.8267	0.3501
47	L2434679-11 DUP	1.0	0.0781	11.6074	1.0433	19.4244	n.a.
48	L2434679-11	1.0	0.0775	11.6194	1.0356	19.4041	n.a.
49	L2435599-01 EFF CL; 50X	50.0	2.8544	1136.8171	n.a.	292.8977	4.1979
50	L2435599-02 INF; 50X	50.0	3.1418	1065.6520	n.a.	214.4868	3.6395
51	CCV	1.0	1.0151	9.9931	0.9106	20.1829	1.0140
52	CCB	1.0	n.a.	0.2210	n.a.	0.2383	n.a.
	Sum:	168.000	25.5504		31.2892	1268.1574	25.1205
	Average:	3.231	0.5807		1.0430	24.3876	0.6611
	Rel.Std.Dev:	297.303 %	1.6780		1.1422	2.0252	1.7287

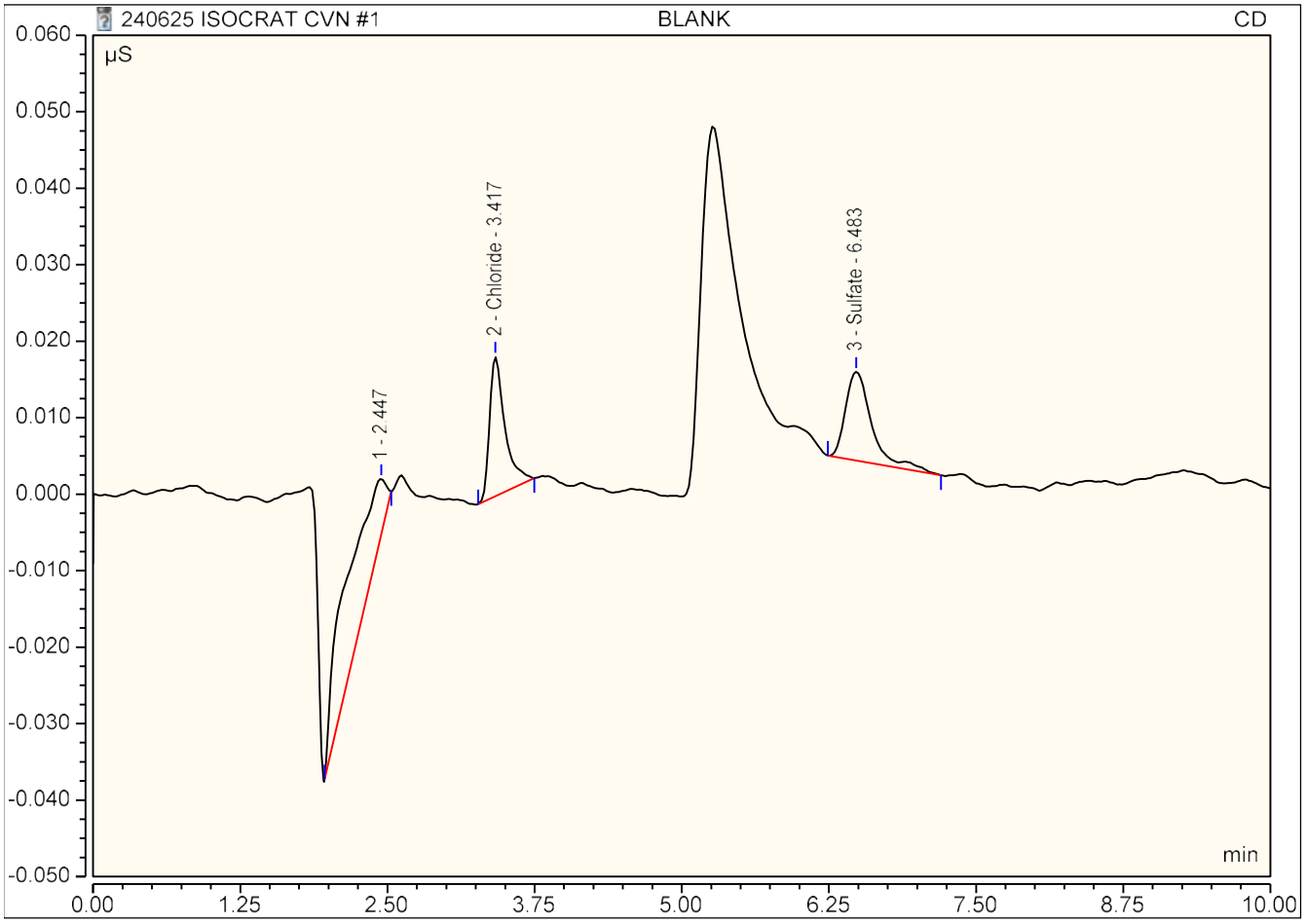
Inject Time	Comment
20/Jun/2024 19:16	AU
20/Jun/2024 19:29	LOT#240619-0.5
20/Jun/2024 19:41	LOT#240619-1.0
20/Jun/2024 19:53	LOT#240619-2.0
20/Jun/2024 20:05	LOT#240619-3.0
20/Jun/2024 20:17	LOT#240619-4.0
20/Jun/2024 20:29	LOT#240519-5.0
25/Jun/2024 10:36	WG1939114-65-69
25/Jun/2024 10:48	LOT#240622-C
25/Jun/2024 11:00	CVN
25/Jun/2024 11:13	LOT#240622-I
25/Jun/2024 11:41	LOT#240622-I
25/Jun/2024 11:53	CVN
25/Jun/2024 12:05	CVN
25/Jun/2024 12:17	LOT#240622-I
25/Jun/2024 12:29	CVN
25/Jun/2024 12:42	CVN
25/Jun/2024 12:54	CVN
25/Jun/2024 13:06	CVN
25/Jun/2024 13:18	CVN
25/Jun/2024 13:30	LOT#240622-C
25/Jun/2024 13:42	CVN
25/Jun/2024 13:54	CVN
25/Jun/2024 14:06	CVN
25/Jun/2024 14:18	CVN
25/Jun/2024 14:30	CVN
25/Jun/2024 14:42	CVN
25/Jun/2024 14:54	CVN
25/Jun/2024 15:07	CVN
25/Jun/2024 15:19	CVN/JRO
25/Jun/2024 15:31	CVN
25/Jun/2024 15:43	CVN
25/Jun/2024 15:55	LOT#240622-C
25/Jun/2024 16:07	CVN
25/Jun/2024 16:19	CVN
25/Jun/2024 16:31	CVN
25/Jun/2024 16:43	CVN
25/Jun/2024 16:55	CVN
25/Jun/2024 17:07	CVN
25/Jun/2024 17:19	CVN
25/Jun/2024 17:32	CVN
25/Jun/2024 17:44	CVN

25/Jun/2024 17:56	CVN
25/Jun/2024 18:08	LOT#240622-C
25/Jun/2024 18:20	CVN/ MRW
25/Jun/2024 18:32	CVN
25/Jun/2024 18:44	CVN
25/Jun/2024 18:56	CVN
25/Jun/2024 19:08	
25/Jun/2024 19:20	CVN
25/Jun/2024 19:32	LOT#240622-C
25/Jun/2024 19:44	CVN
	0.000
	#DIV/0!
	#DIV/0!

Peak Integration Report

Sample Name:	**BLANK**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**20-Jun-2024 / 19:16**	*Run Time:*	**10.00**

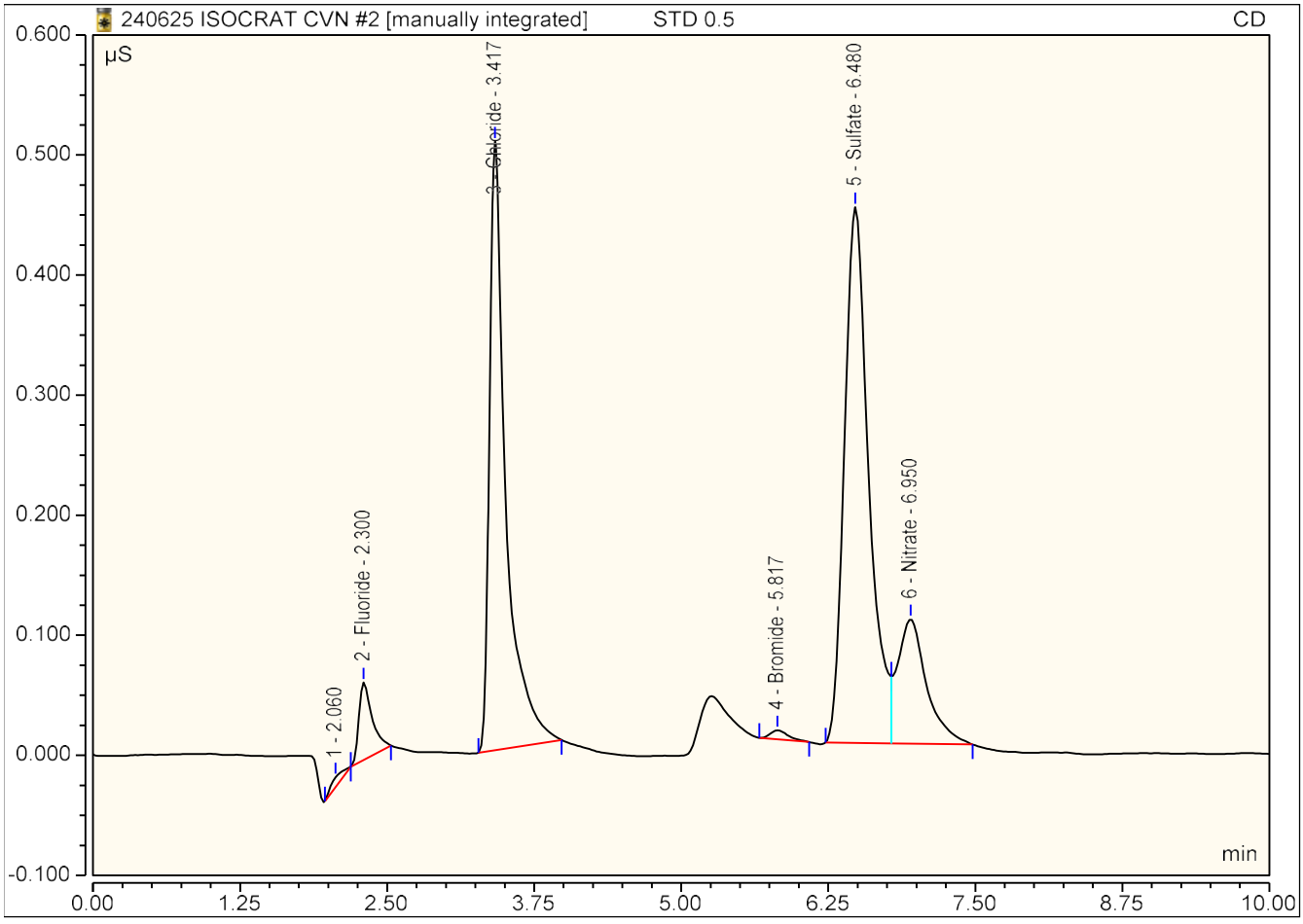
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	3.42	**Chloride**	BMB	0.003	0.018	0.2207
3	6.48	**Sulfate**	BMB	0.003	0.012	0.2430
TOTAL:				0.01	0.03	0.46



Peak Integration Report

Sample Name:	**STD 0.5**	*Inj. Vol.:*	**25.00**
Injection Type:	**Calibration Standard**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**20-Jun-2024 / 19:29**	*Run Time:*	**10.00**

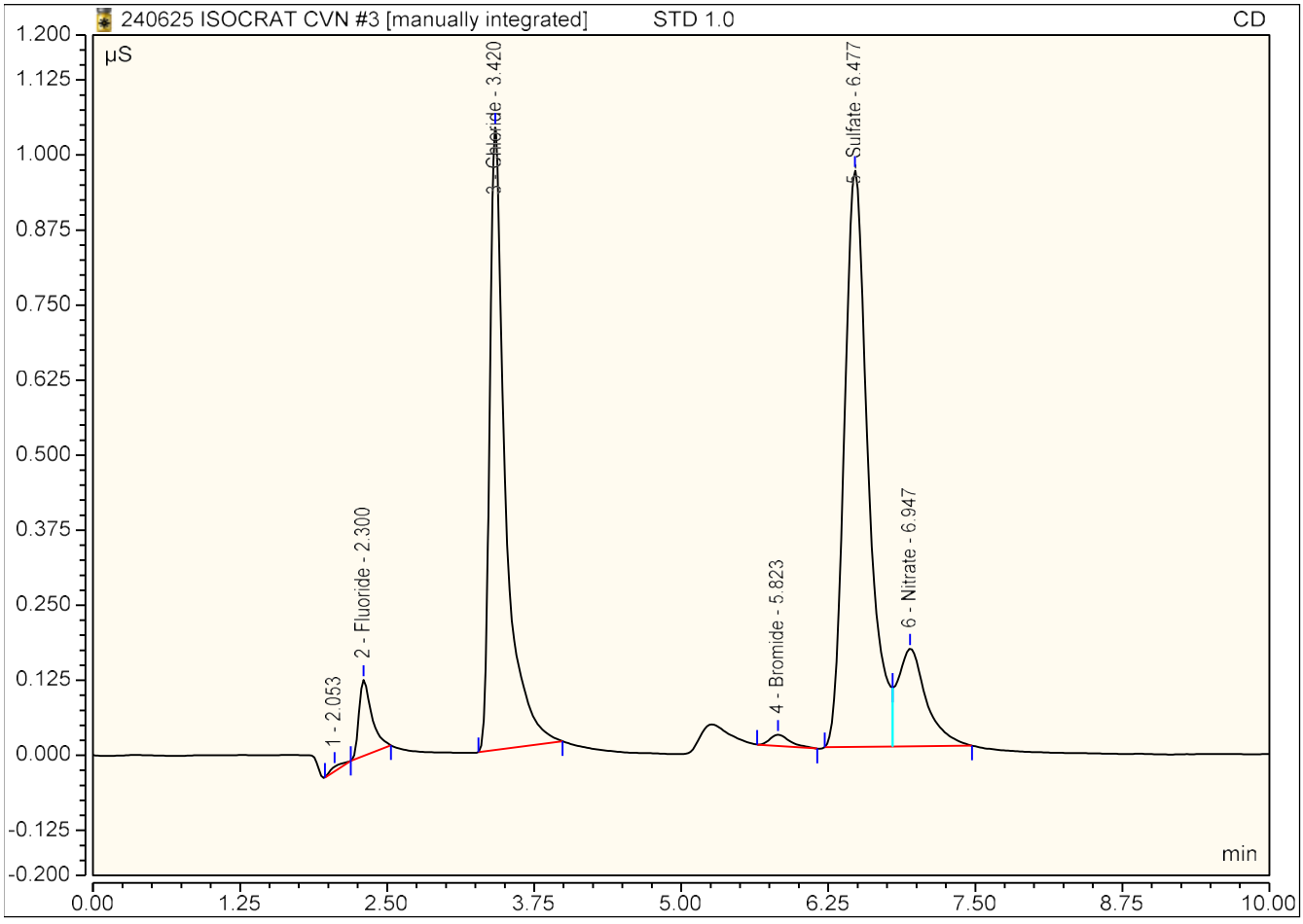
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.30	**Fluoride**	BMB	0.008	0.064	0.0627
3	3.42	**Chloride**	BMB*	0.082	0.507	0.4051
4	5.82	**Bromide**	BMB	0.001	0.007	0.0477
5	6.48	**Sulfate**	BM *	0.107	0.446	0.5886
6	6.95	**Nitrate**	MB*	0.030	0.104	0.0520
TOTAL:				0.23	1.13	1.16



Peak Integration Report

Sample Name:	**STD 1.0**	*Inj. Vol.:*	**25.00**
Injection Type:	**Calibration Standard**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**20-Jun-2024 / 19:41**	*Run Time:*	**10.00**

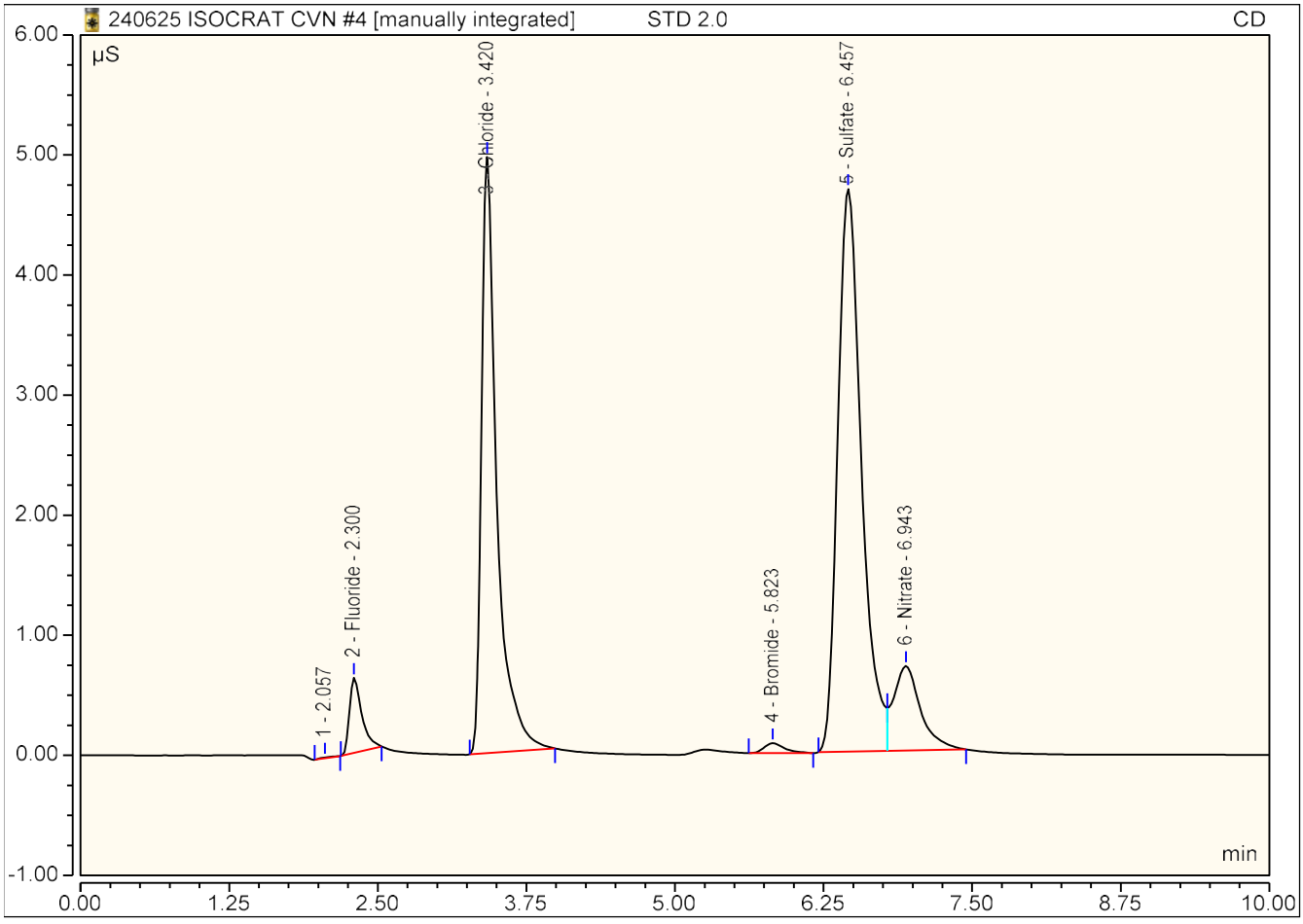
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.30	**Fluoride**	BMB	0.016	0.127	0.0765
3	3.42	**Chloride**	BMB*	0.161	1.037	0.5901
4	5.82	**Bromide**	BMB	0.004	0.019	0.0697
5	6.48	**Sulfate**	BM *	0.225	0.960	0.9801
6	6.95	**Nitrate**	MB*	0.046	0.163	0.0654
TOTAL:				0.45	2.30	1.78



Peak Integration Report

Sample Name:	**STD 2.0**	*Inj. Vol.:*	**25.00**
Injection Type:	**Calibration Standard**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**20-Jun-2024 / 19:53**	*Run Time:*	**10.00**

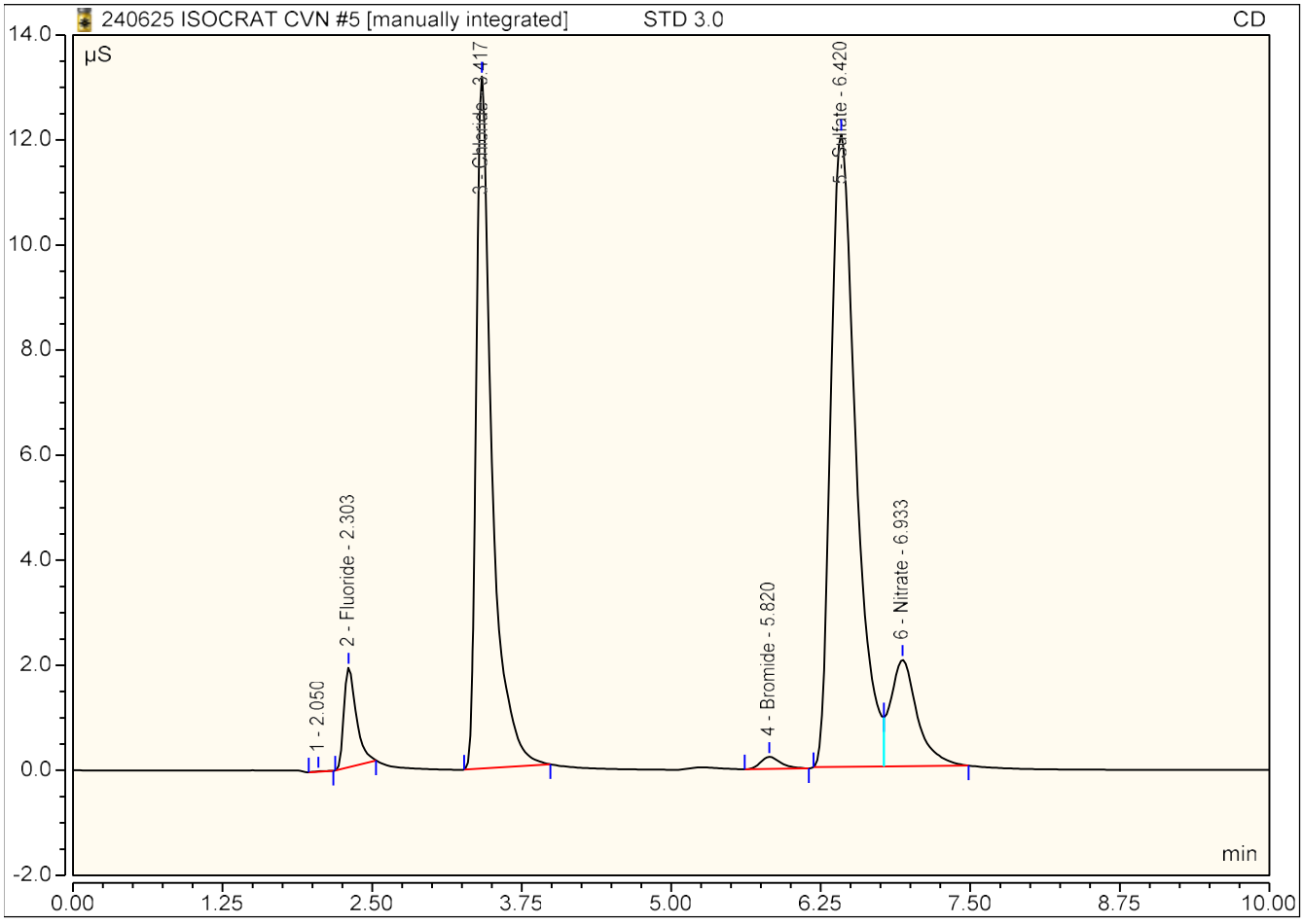
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.30	**Fluoride**	BMB	0.075	0.625	0.1819
3	3.42	**Chloride**	BMB*	0.747	4.966	1.9641
4	5.82	**Bromide**	BMB	0.017	0.083	0.1902
5	6.46	**Sulfate**	BM *	1.084	4.686	3.8369
6	6.94	**Nitrate**	MB*	0.186	0.705	0.1814
TOTAL:				2.11	11.06	6.35



Peak Integration Report

Sample Name:	**STD 3.0**	*Inj. Vol.:*	**25.00**
Injection Type:	**Calibration Standard**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**20-Jun-2024 / 20:05**	*Run Time:*	**10.00**

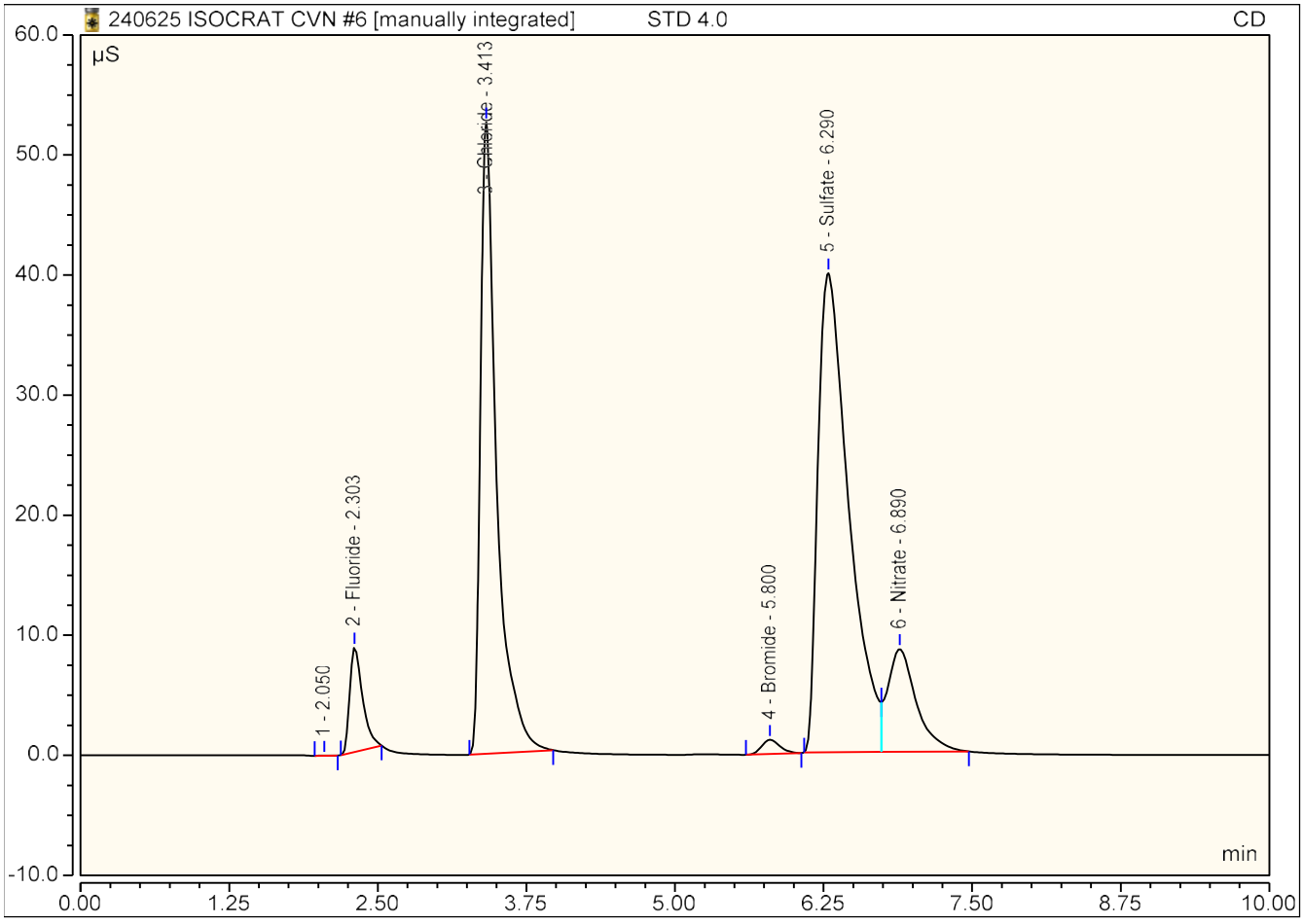
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.30	**Fluoride**	BMB	0.228	1.898	0.4532
3	3.42	**Chloride**	BMB*	2.015	13.175	4.9324
4	5.82	**Bromide**	BMB	0.045	0.232	0.4562
5	6.42	**Sulfate**	BM *	2.929	12.045	9.9697
6	6.93	**Nitrate**	MB*	0.530	2.029	0.4668
TOTAL:				5.75	29.38	16.28



Peak Integration Report

Sample Name:	**STD 4.0**	*Inj. Vol.:*	**25.00**
Injection Type:	**Calibration Standard**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**20-Jun-2024 / 20:17**	*Run Time:*	**10.00**

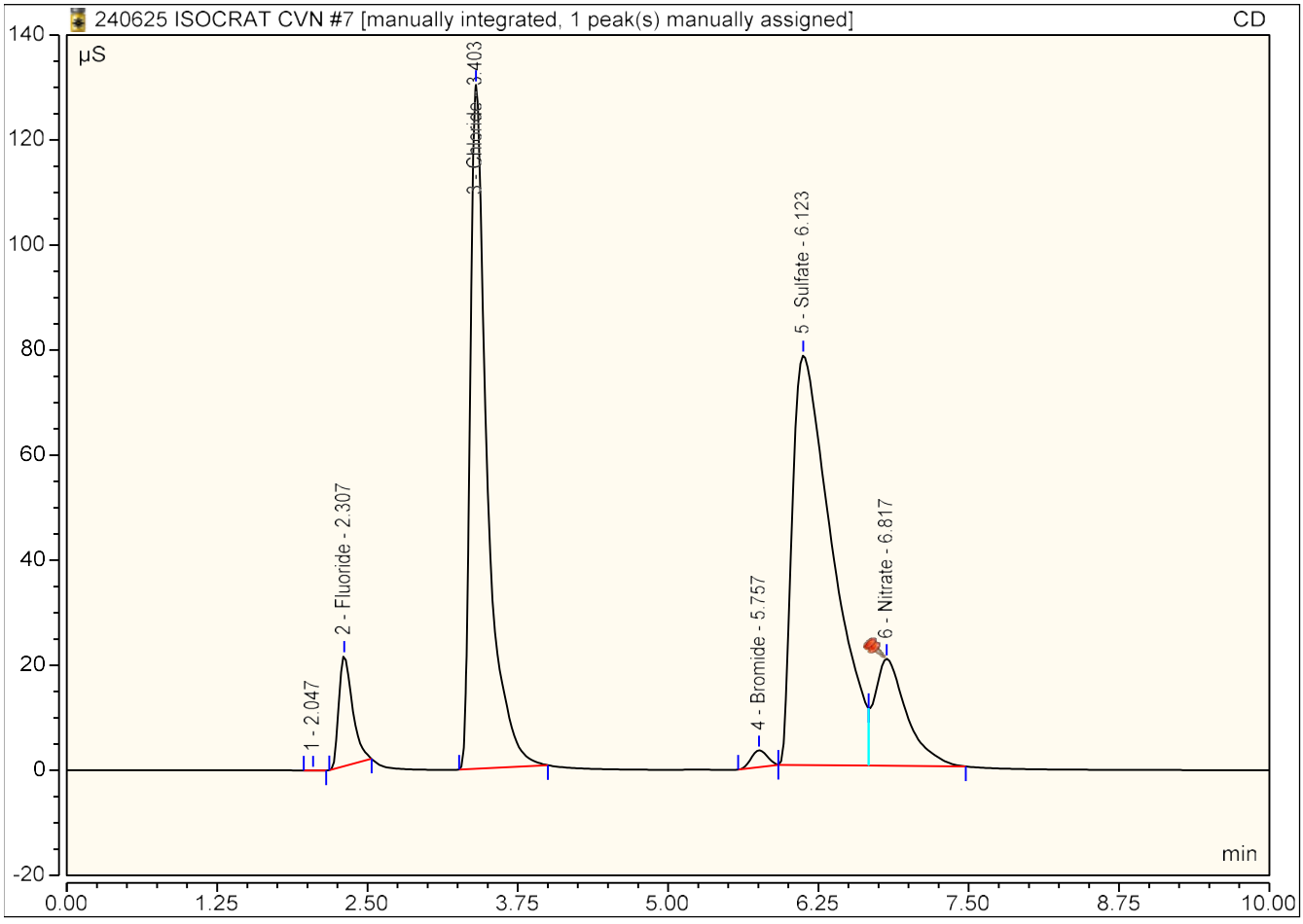
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.30	**Fluoride**	BMB	1.091	8.722	1.9929
3	3.41	**Chloride**	BMB*	8.345	52.603	19.7530
4	5.80	**Bromide**	BMB	0.212	1.195	2.0111
5	6.29	**Sulfate**	BM *	12.022	39.899	40.1924
6	6.89	**Nitrate**	MB*	2.390	8.578	2.0094
TOTAL:				24.06	111.00	65.96



Peak Integration Report

Sample Name:	**STD 5.0**	*Inj. Vol.:*	**25.00**
Injection Type:	**Calibration Standard**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**20-Jun-2024 / 20:29**	*Run Time:*	**10.00**

No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.31	**Fluoride**	BMB	2.783	21.008	5.0078
3	3.40	**Chloride**	BMB*	21.308	130.171	50.1053
4	5.76	**Bromide**	BMb*	0.495	3.193	4.6573
5	6.12	**Sulfate**	bM *	29.995	78.000	99.9323
6	6.82	**Nitrate**	MB*^	6.347	20.344	5.2913
TOTAL:				60.93	252.72	164.99



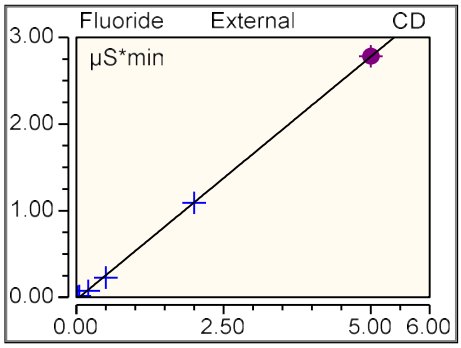
Calibration Batch Report

Sequence:	**240625 ISOCRAT CVN**	*Injection Volume:*	**25.00**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**20-Jun-2024 / 20:29**	*Run Time:*	**10**

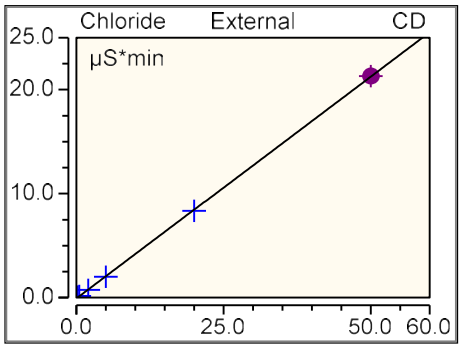
Calibration Summary

Peak Name	Eval.Type	Cal.Type	Points	Offset (C0)	Slope (C1)	Curve (C2)	Coeff.Det. %
Fluoride	Area	in, WithOffse	6.000	-0.027	0.561	0.000	99.9753
Chloride	Area	in, WithOffse	6.000	-0.091	0.427	0.000	99.9943
Bromide	Area	in, WithOffse	5.000	-0.004	0.107	0.000	99.8898
Sulfate	Area	in, WithOffse	6.000	-0.070	0.301	0.000	99.9990
Nitrate	Area	in, WithOffse	5.000	-0.033	1.206	0.000	99.9091
		AVERAGE:		-0.0451	0.5204	0.0000	99.9535

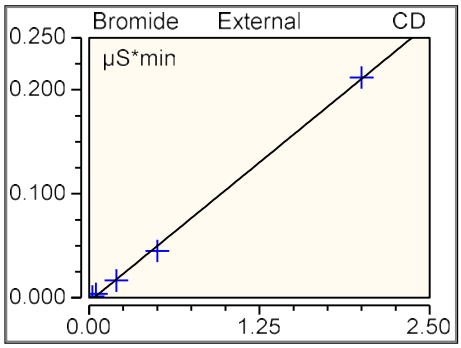
Injection Name	Ret.Time min CD	Area µS*min CD	Height µS CD	Amount CD
	Fluoride	Fluoride	Fluoride	Fluoride
STD 0.5	2.300	0.0085	0.064	0.063
STD 1.0	2.300	0.0162	0.127	0.076
STD 2.0	2.300	0.0753	0.625	0.182
STD 3.0	2.303	0.2275	1.898	0.453
STD 4.0	2.303	1.0914	8.722	1.993
STD 5.0	2.307	2.7828	21.008	5.008
Average	2.302			
Rel. Std. Dev.	0.118 %			



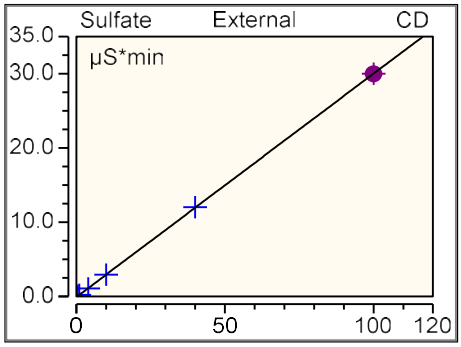
Injection Name	Ret.Time min CD	Area µS*min CD	Height µS CD	Amount CD
	Chloride	Chloride	Chloride	Chloride
STD 0.5	3.417	0.0815	0.507	0.405
STD 1.0	3.420	0.1605	1.037	0.590
STD 2.0	3.420	0.7474	4.966	1.964
STD 3.0	3.417	2.0151	13.175	4.932
STD 4.0	3.413	8.3449	52.603	19.753
STD 5.0	3.403	21.3083	130.171	50.105
Average	3.415			
Rel. Std. Dev.	0.183 %			



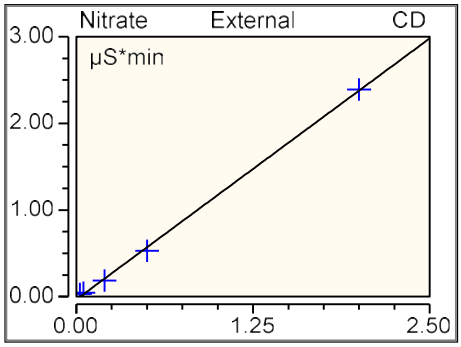
Injection Name	Ret.Time min CD	Area µS*min CD	Height µS CD	Amount CD
	Bromide	Bromide	Bromide	Bromide
STD 0.5	5.817	0.0013	0.007	0.048
STD 1.0	5.823	0.0037	0.019	0.070
STD 2.0	5.823	0.0166	0.083	0.190
STD 3.0	5.820	0.0451	0.232	0.456
STD 4.0	5.800	0.2117	1.195	2.011
STD 5.0	5.757	0.4953	3.193	4.657
Average	5.807			
Rel. Std. Dev.	0.448 %			



Injection Name	Ret.Time min CD	Area µS*min CD	Height µS CD	Amount CD
	Sulfate	Sulfate	Sulfate	Sulfate
STD 0.5	6.480	0.1069	0.446	0.589
STD 1.0	6.477	0.2247	0.960	0.980
STD 2.0	6.457	1.0842	4.686	3.837
STD 3.0	6.420	2.9293	12.045	9.970
STD 4.0	6.290	12.0219	39.899	40.192
STD 5.0	6.123	29.9948	78.000	99.932
Average	6.374			
Rel. Std. Dev.	2.225 %			



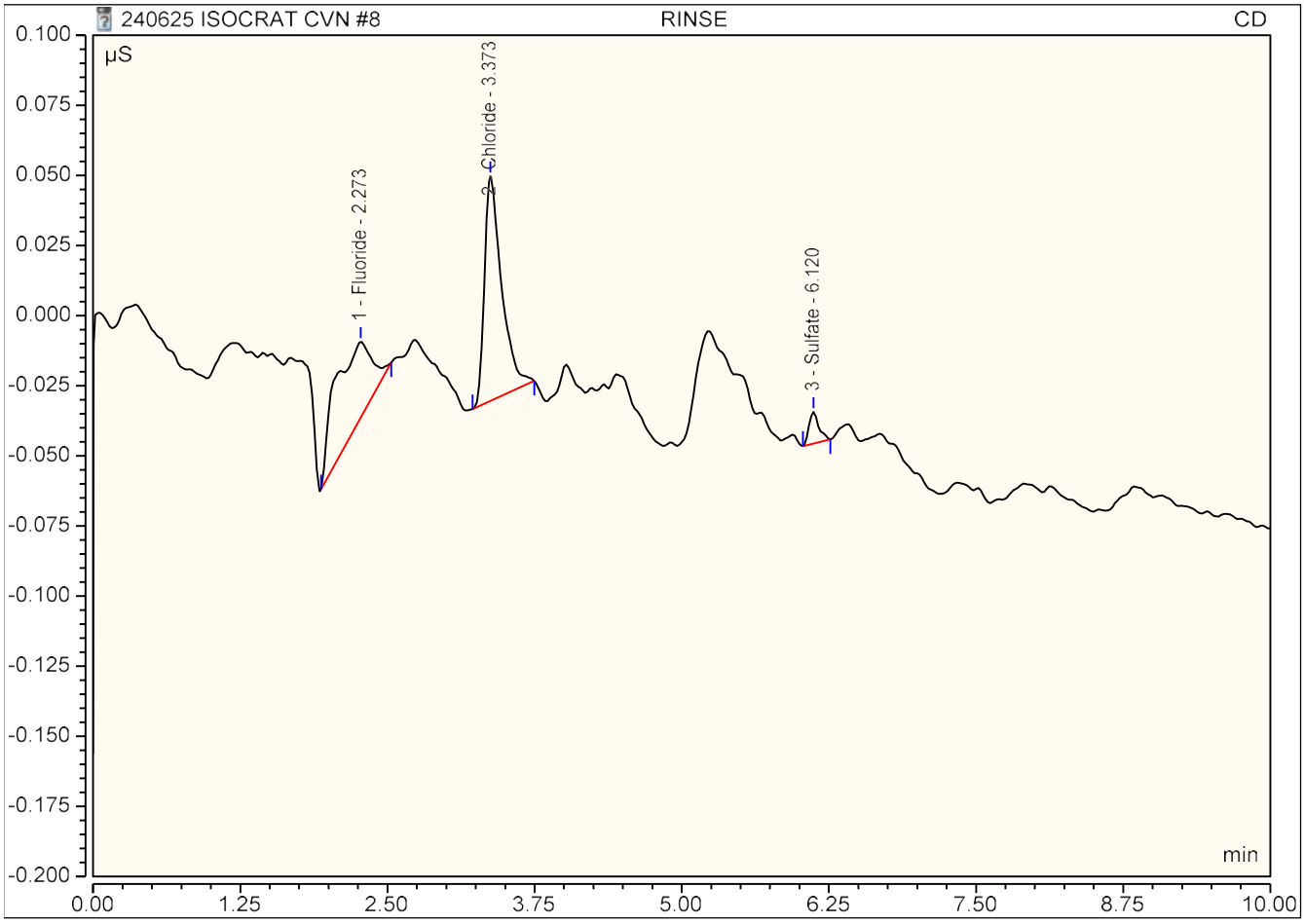
Injection Name	Ret.Time min CD	Area µS*min CD	Height µS CD	Amount CD
	Nitrate	Nitrate	Nitrate	Nitrate
STD 0.5	6.950	0.0296	0.104	0.052
STD 1.0	6.947	0.0457	0.163	0.065
STD 2.0	6.943	0.1856	0.705	0.181
STD 3.0	6.933	0.5297	2.029	0.467
STD 4.0	6.890	2.3899	8.578	2.009
STD 5.0	6.817	6.3473	20.344	5.291
Average	6.913			
Rel. Std. Dev.	0.756 %			



Peak Integration Report

Sample Name:	**RINSE**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**25-Jun-2024 / 10:36**	*Run Time:*	**10.00**

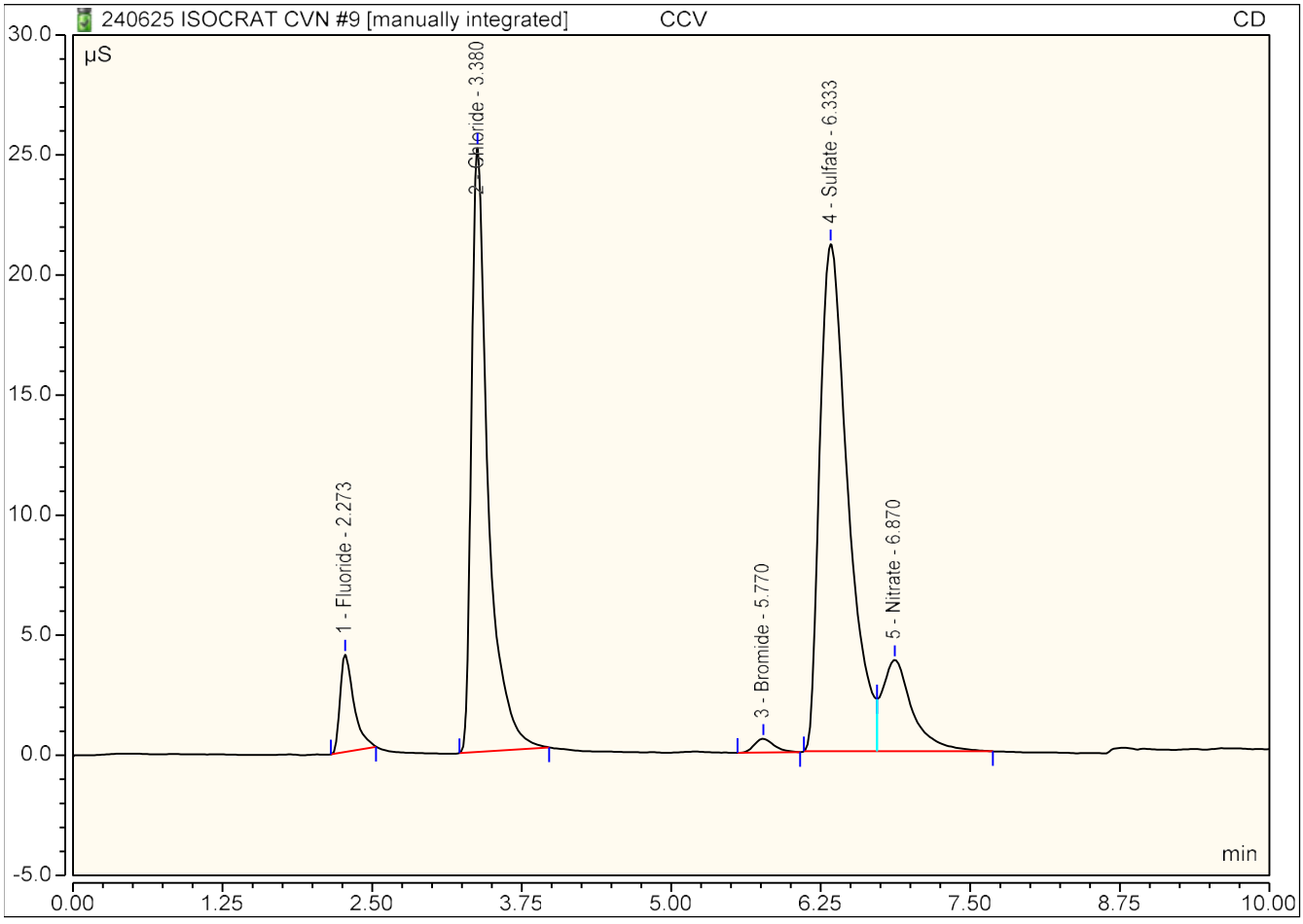
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
1	2.27	**Fluoride**	BMB	0.011	0.027	0.0673
2	3.37	**Chloride**	BMB	0.014	0.080	0.2459
3	6.12	**Sulfate**	BMB	0.001	0.011	0.2368
TOTAL:				0.03	0.12	0.55



Peak Integration Report

Sample Name:	**CCV**	*Inj. Vol.:*	**25.00**
Injection Type:	**Check Standard**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**25-Jun-2024 / 10:48**	*Run Time:*	**10.00**

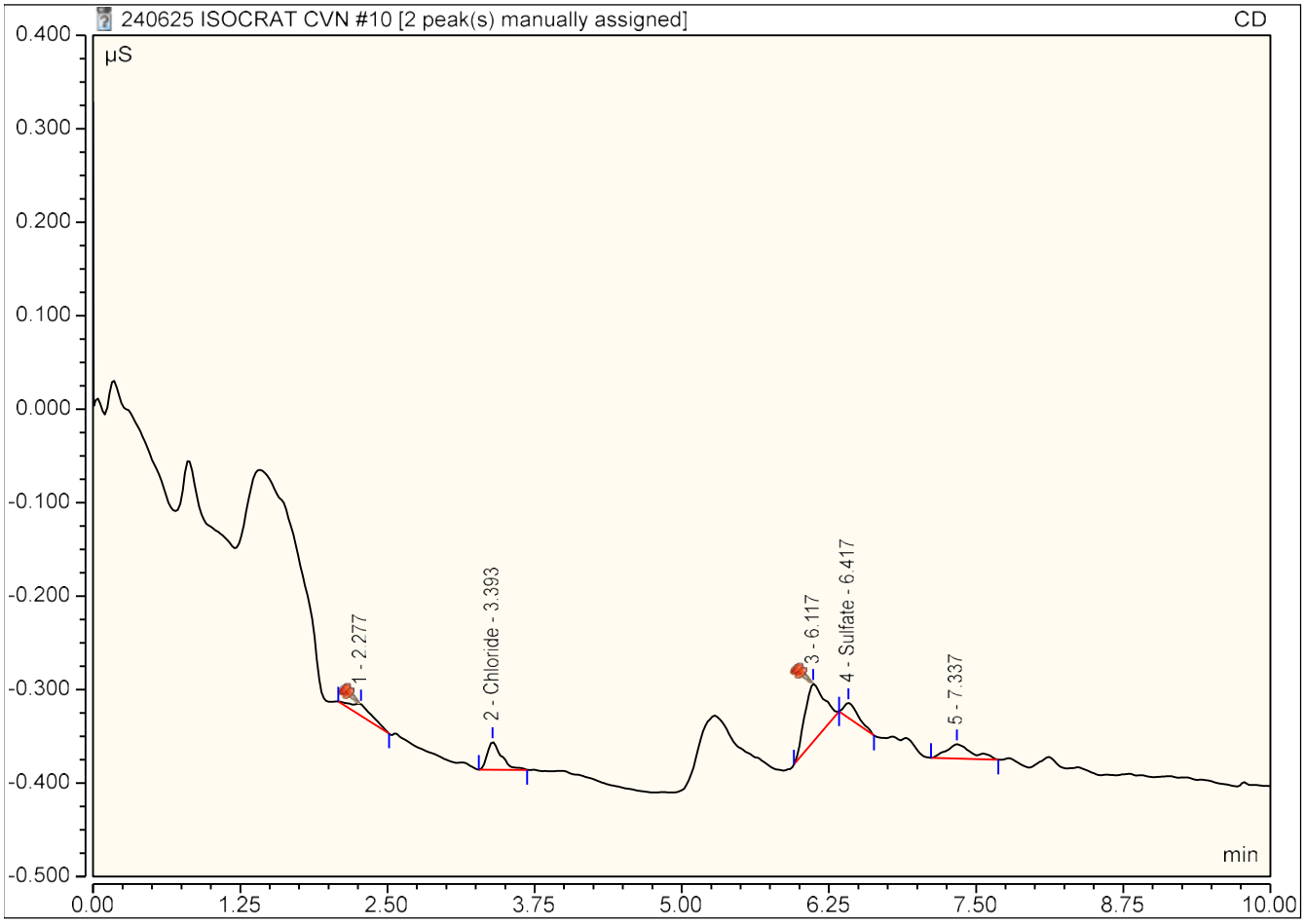
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
1	2.27	**Fluoride**	BMB	0.540	4.057	1.0097
2	3.38	**Chloride**	BMB*	4.081	25.166	9.7696
3	5.77	**Bromide**	BMB	0.110	0.572	1.0618
4	6.33	**Sulfate**	BM *	5.789	21.121	19.4736
5	6.87	**Nitrate**	MB*	1.114	3.807	0.9517
TOTAL:				11.63	54.72	32.27



Peak Integration Report

Sample Name:	**CCB**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**25-Jun-2024 / 11:00**	*Run Time:*	**10.00**

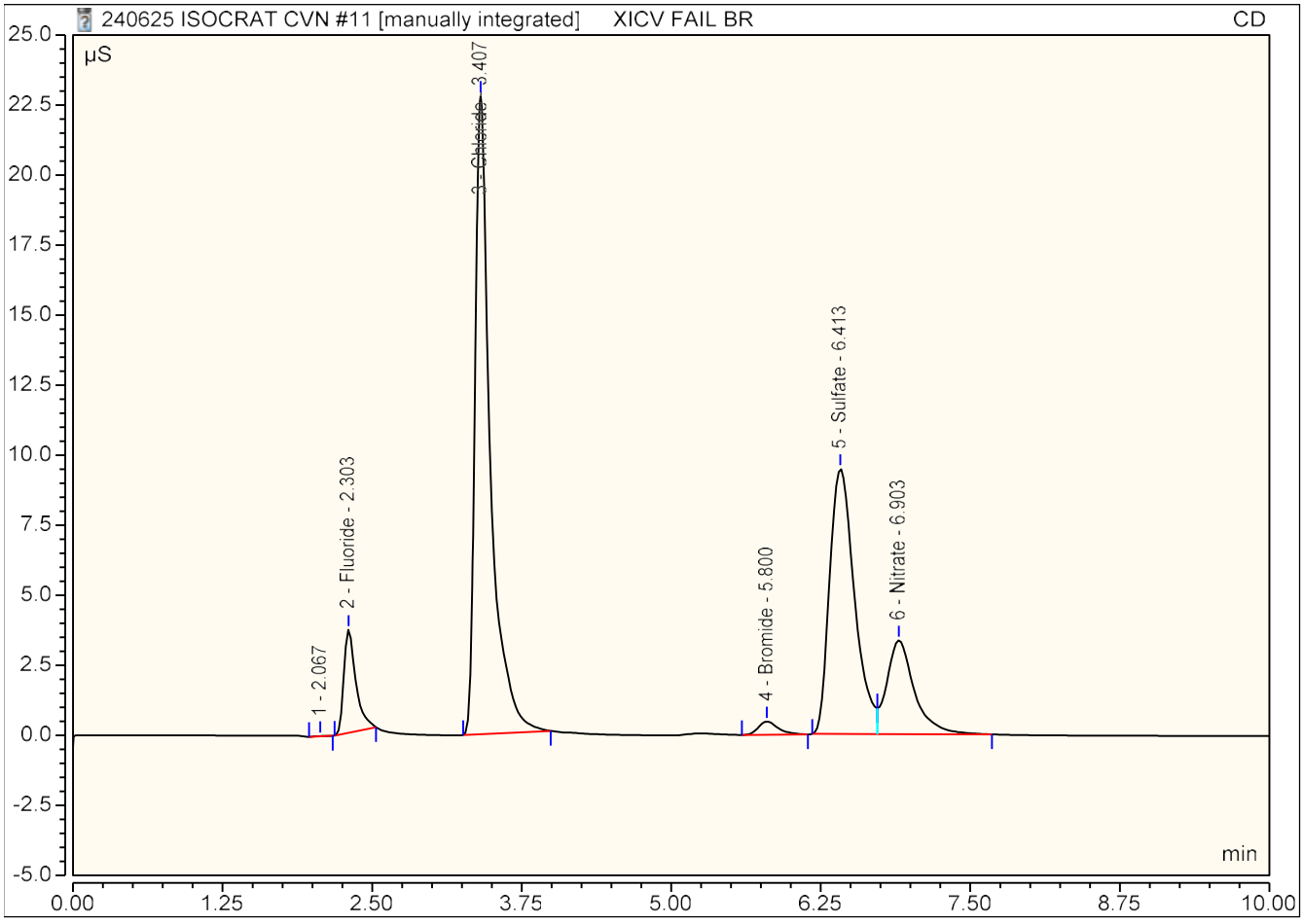
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	3.39	**Chloride**	BMB	0.004	0.030	0.2240
4	6.42	**Sulfate**	BMB	0.002	0.016	0.2409
TOTAL:				0.01	0.05	0.46



Peak Integration Report

Sample Name:	**XICV FAIL BR**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**25-Jun-2024 / 11:13**	*Run Time:*	**10.00**

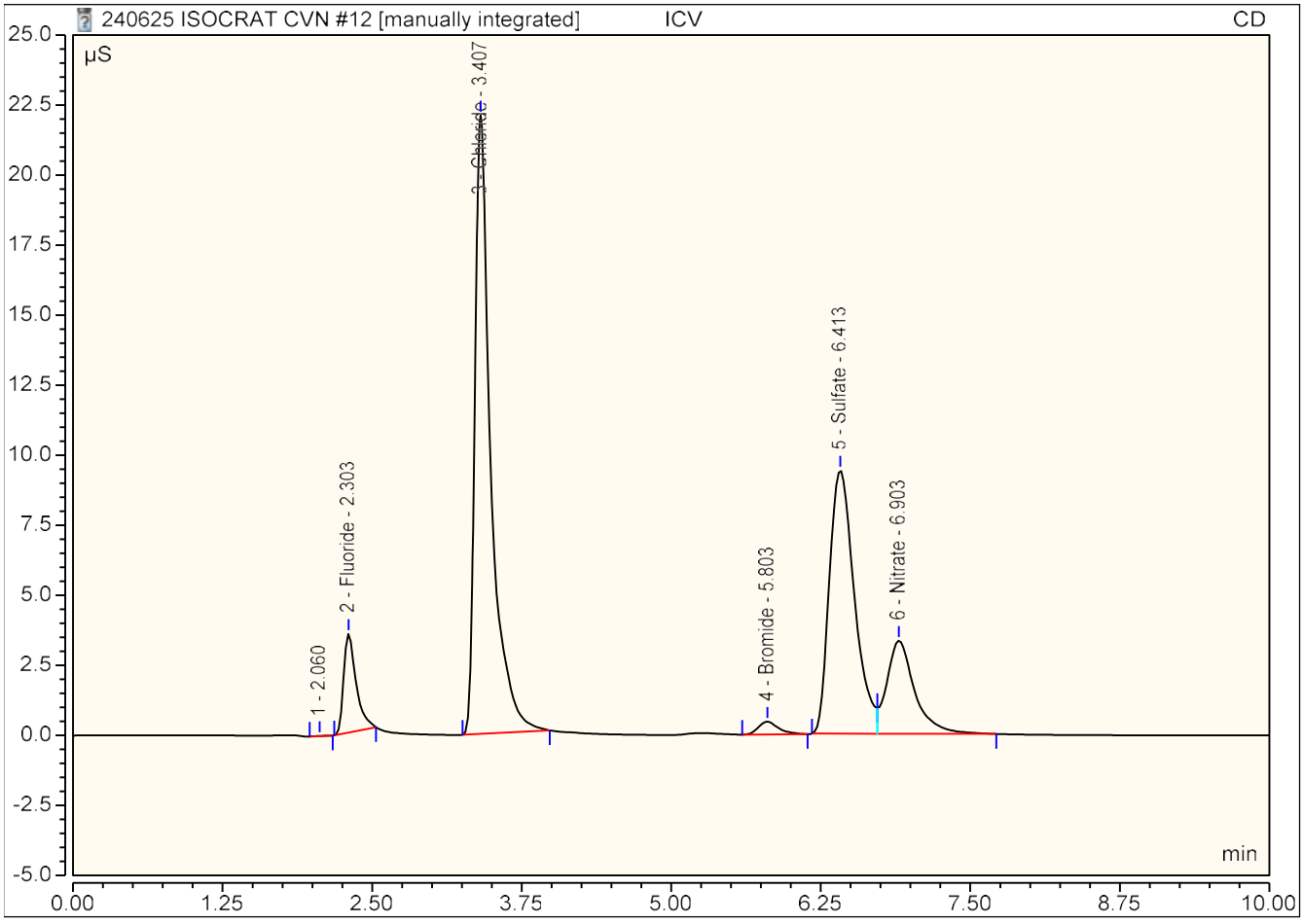
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.30	**Fluoride**	BMB	0.429	3.677	0.8119
3	3.41	**Chloride**	BMB*	3.381	22.788	8.1298
4	5.80	**Bromide**	BMB	0.092	0.475	0.8955
5	6.41	**Sulfate**	BM *	2.284	9.460	7.8251
6	6.90	**Nitrate**	MB*	0.894	3.349	0.7687
TOTAL:				7.08	39.75	18.43



Peak Integration Report

Sample Name:	**ICV**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**25-Jun-2024 / 11:41**	*Run Time:*	**10.00**

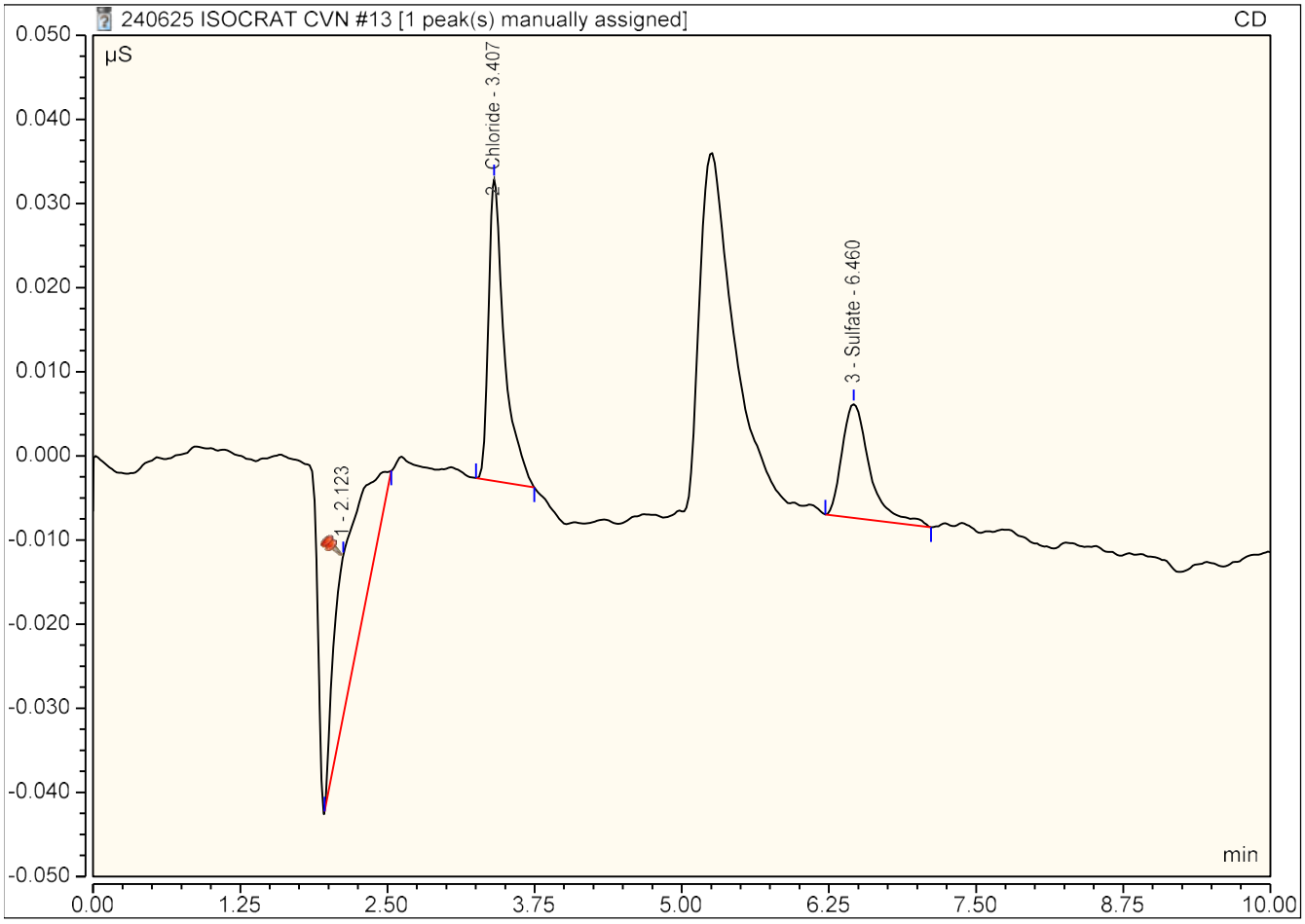
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.30	**Fluoride**	BMB	0.425	3.526	0.8057
3	3.41	**Chloride**	BMB*	3.380	22.077	8.1278
4	5.80	**Bromide**	BMB	0.089	0.457	0.8668
5	6.41	**Sulfate**	BM *	2.284	9.394	7.8254
6	6.90	**Nitrate**	MB*	0.893	3.318	0.7685
TOTAL:				7.07	38.77	18.39



Peak Integration Report

Sample Name:	**ICB**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**25-Jun-2024 / 11:53**	*Run Time:*	**10.00**

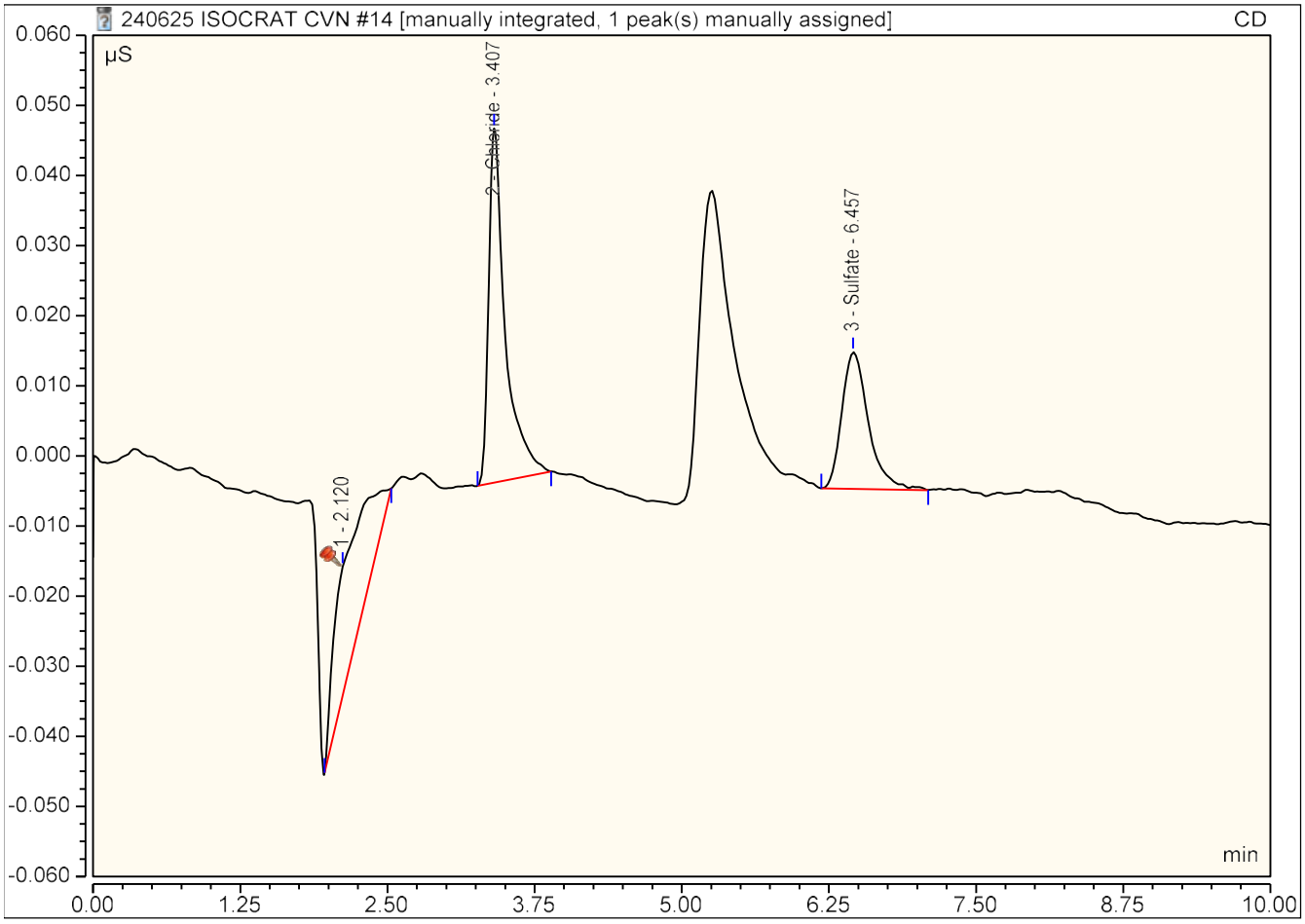
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	3.41	**Chloride**	BMB	0.006	0.036	0.2273
3	6.46	**Sulfate**	BMB	0.004	0.014	0.2454
TOTAL:				0.01	0.05	0.47



Peak Integration Report

Sample Name:	**BLK**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**25-Jun-2024 / 12:05**	*Run Time:*	**10.00**

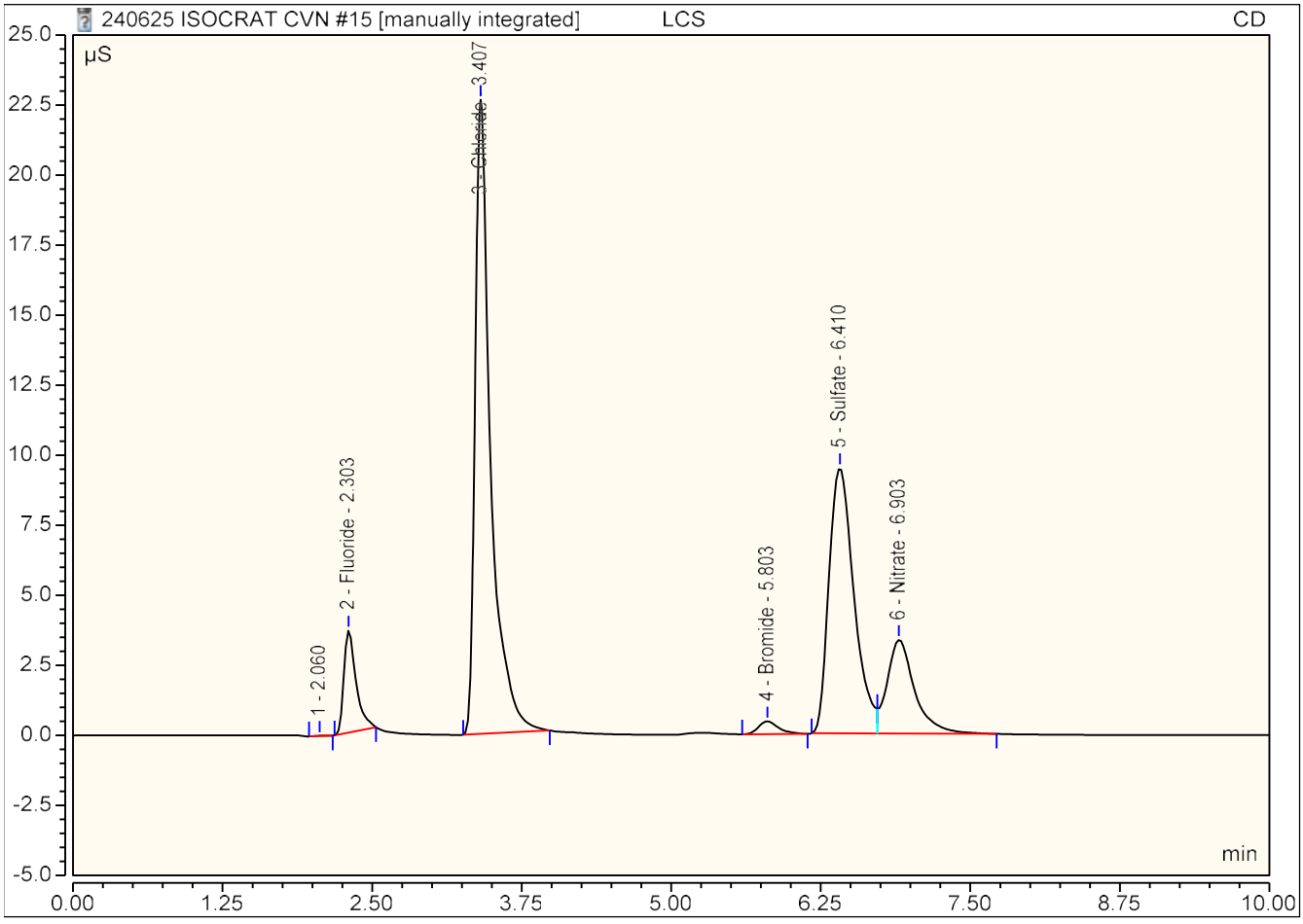
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	3.41	**Chloride**	BMB*	0.008	0.050	0.2335
3	6.46	**Sulfate**	BMB	0.005	0.020	0.2501
TOTAL:				0.01	0.07	0.48



Peak Integration Report

Sample Name:	**LCS**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**25-Jun-2024 / 12:17**	*Run Time:*	**10.00**

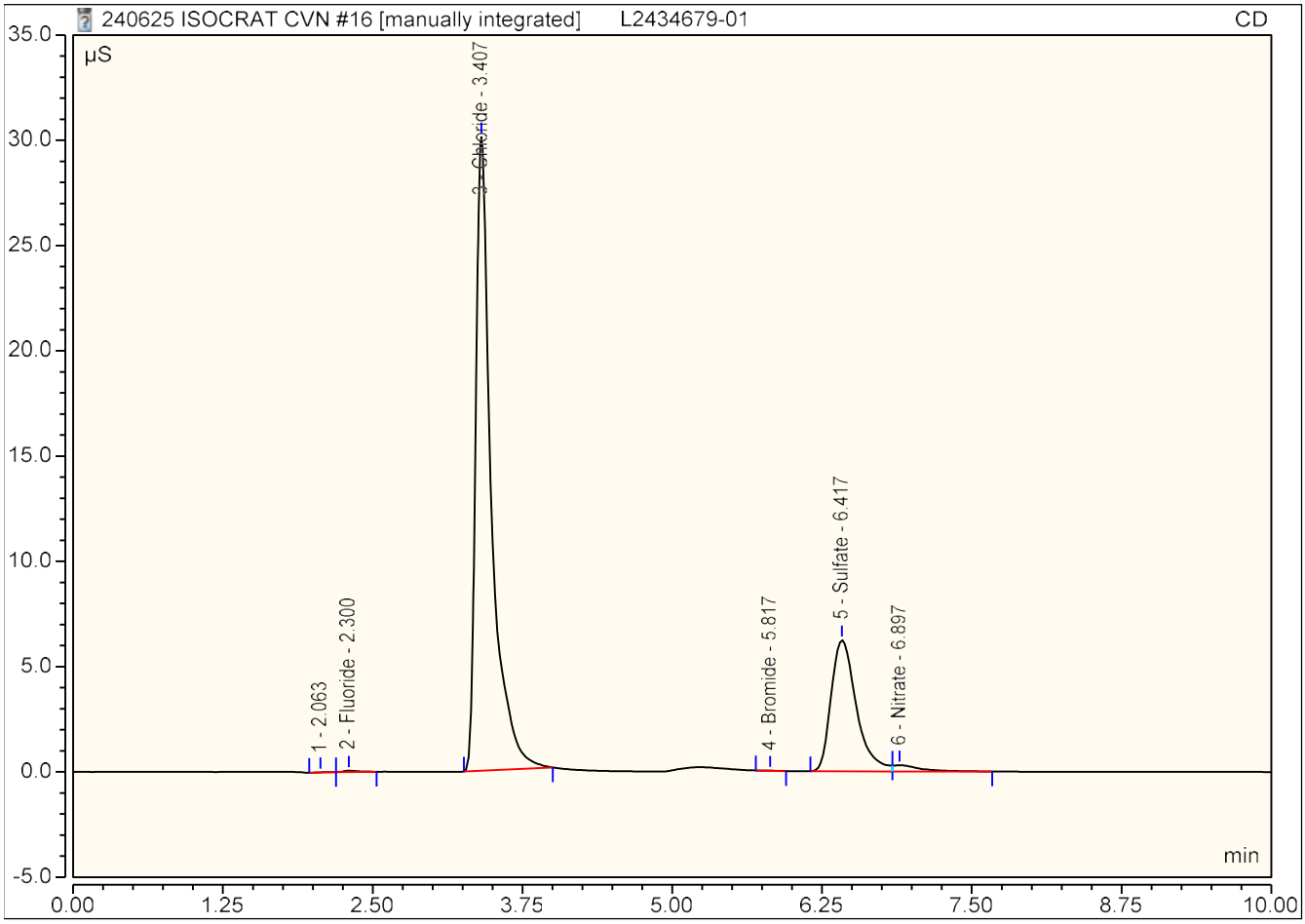
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.30	**Fluoride**	BMB	0.430	3.643	0.8135
3	3.41	**Chloride**	BMB*	3.392	22.634	8.1560
4	5.80	**Bromide**	BMB	0.089	0.463	0.8705
5	6.41	**Sulfate**	BM *	2.297	9.471	7.8696
6	6.90	**Nitrate**	MB*	0.892	3.345	0.7669
TOTAL:				7.10	39.56	18.48



Peak Integration Report

Sample Name:	**L2434679-01**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**25-Jun-2024 / 12:29**	*Run Time:*	**10.00**

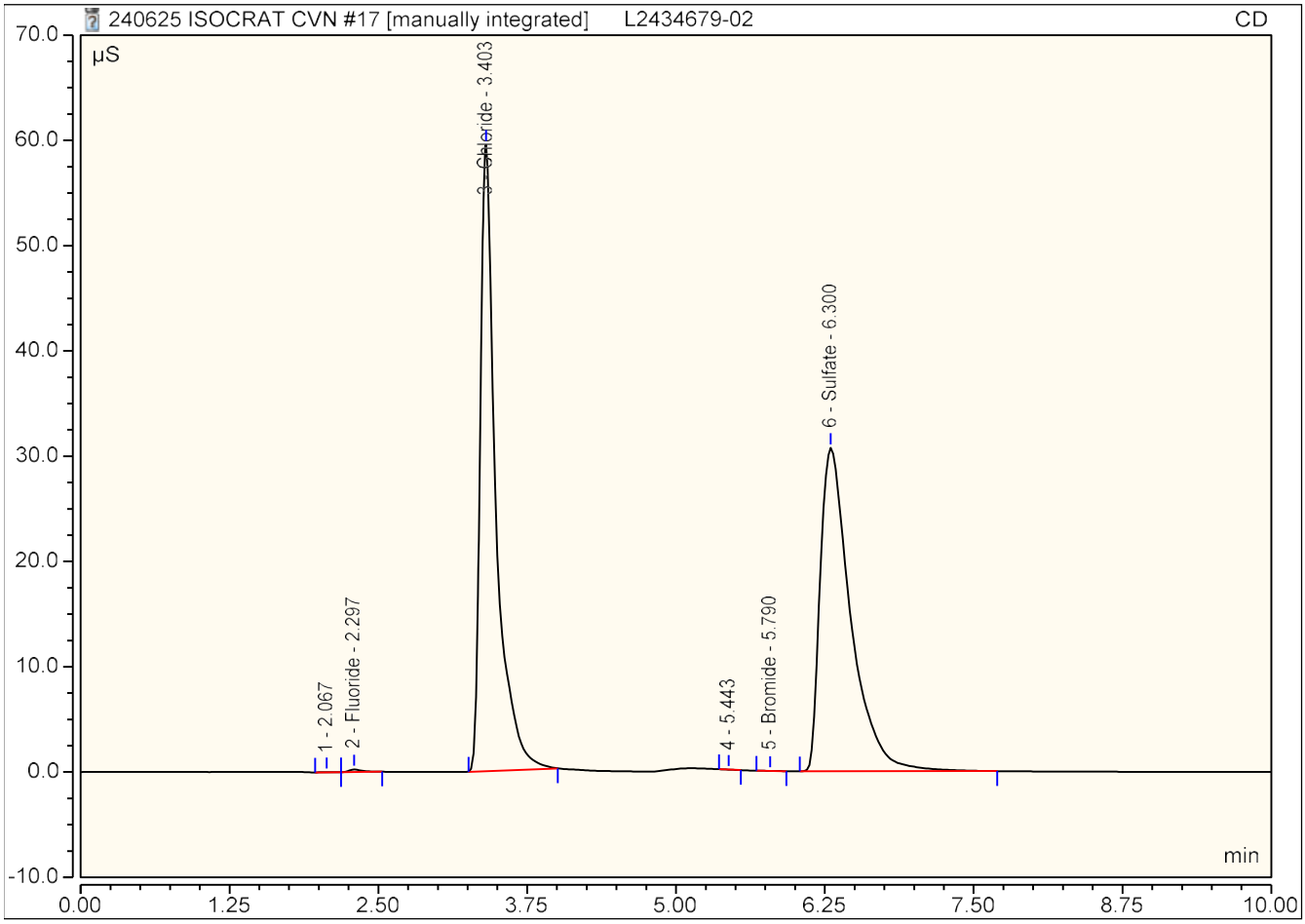
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.30	**Fluoride**	BMB	0.008	0.062	0.0621
3	3.41	**Chloride**	BMB*	4.551	30.101	10.8695
4	5.82	**Bromide**	BMB	0.001	0.004	0.0401
5	6.42	**Sulfate**	BM *	1.519	6.230	5.2817
6	6.90	**Nitrate**	MB*	0.076	0.288	0.0903
TOTAL:				6.15	36.69	16.34



Peak Integration Report

Sample Name:	**L2434679-02**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**25-Jun-2024 / 12:42**	*Run Time:*	**10.00**

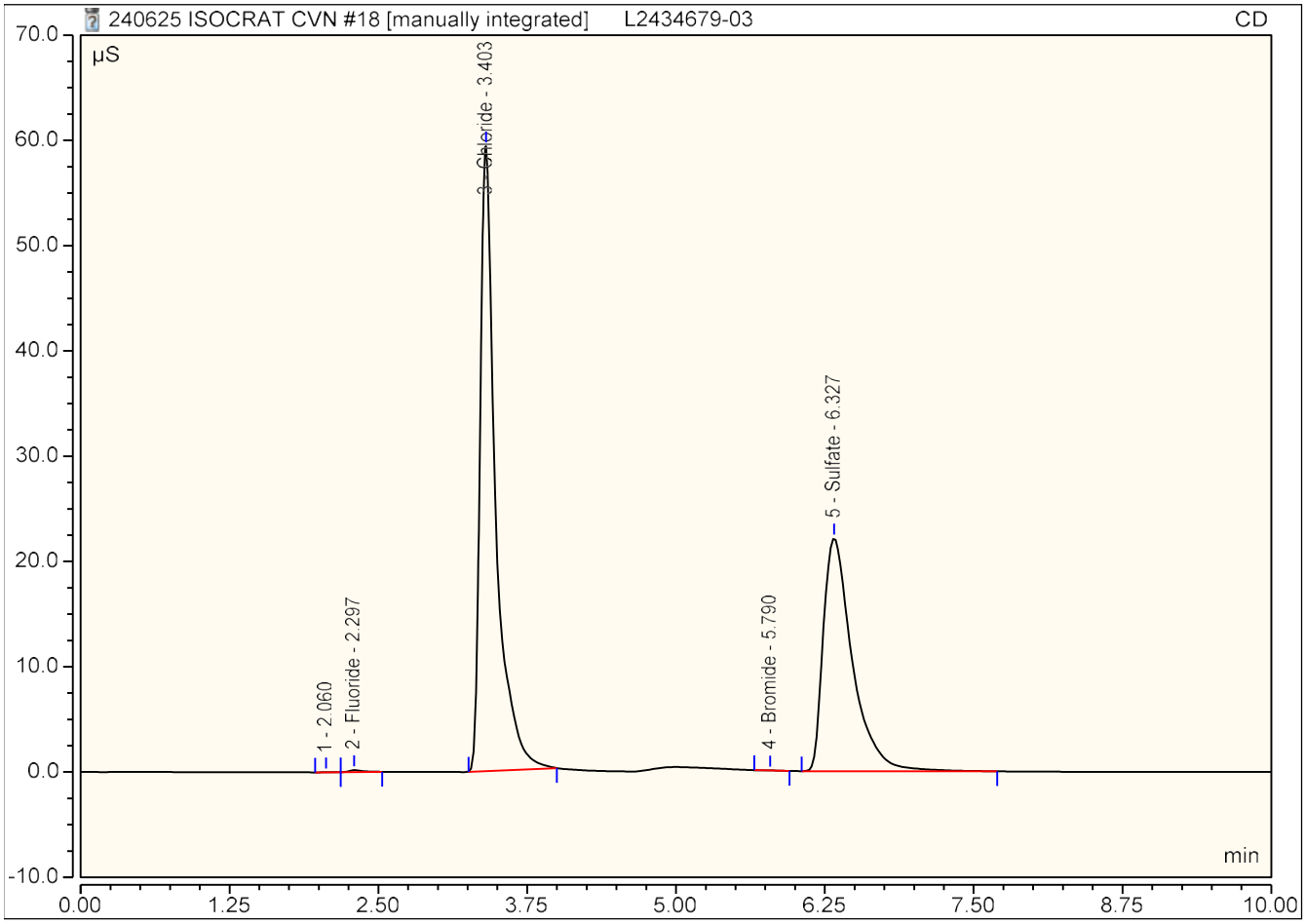
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.30	**Fluoride**	BMB	0.030	0.248	0.1011
3	3.40	**Chloride**	BMB*	9.025	59.499	21.3445
5	5.79	**Bromide**	BMB	0.001	0.006	0.0426
6	6.30	**Sulfate**	BMB	9.145	30.717	30.6310
TOTAL:				18.20	90.47	52.12



Peak Integration Report

Sample Name:	**L2434679-03**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**25-Jun-2024 / 12:54**	*Run Time:*	**10.00**

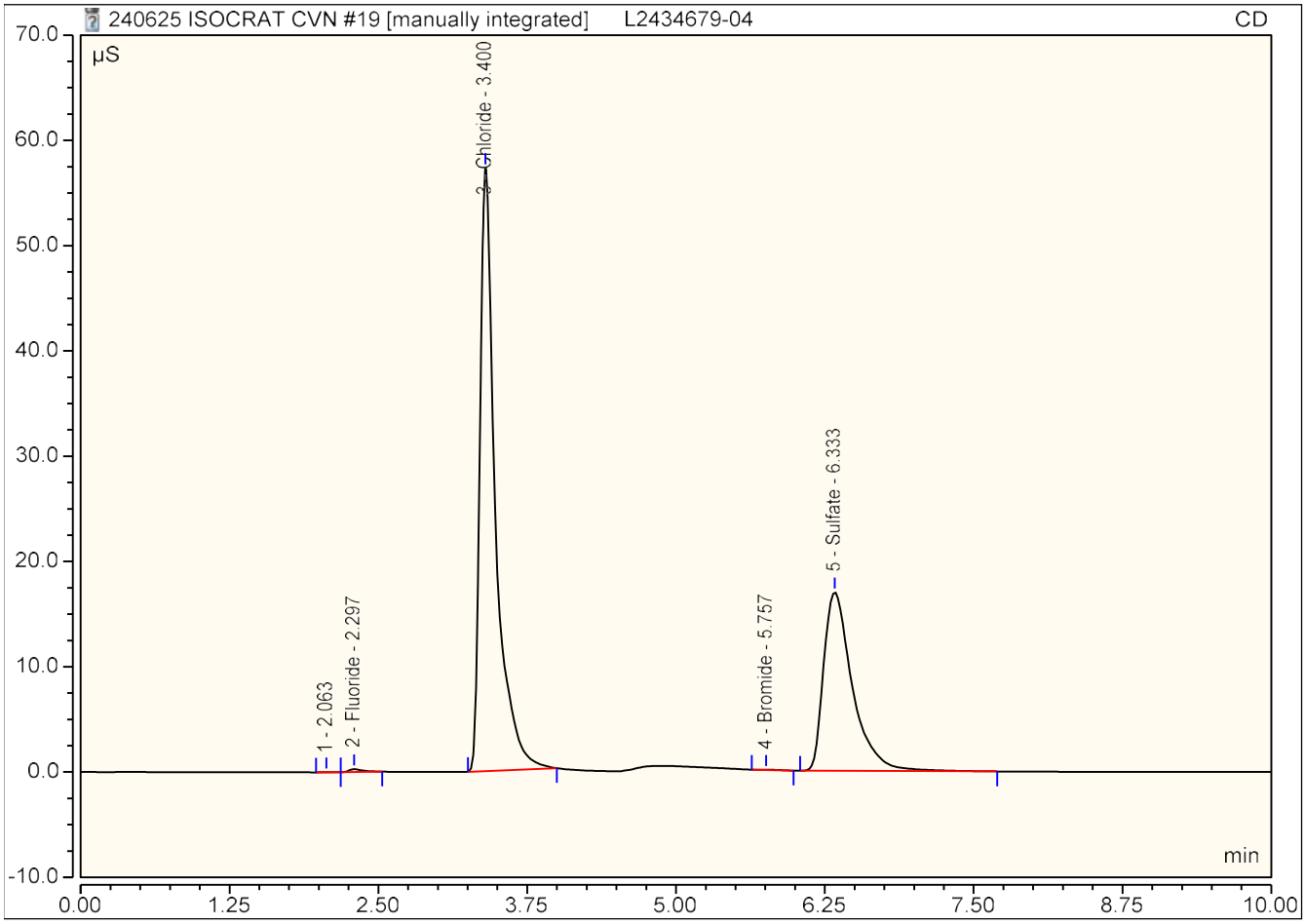
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.30	**Fluoride**	BMB	0.023	0.186	0.0890
3	3.40	**Chloride**	BMB*	8.944	59.350	21.1561
4	5.79	**Bromide**	BMB	0.002	0.015	0.0546
5	6.33	**Sulfate**	BMB	6.261	22.122	21.0455
TOTAL:				15.23	81.67	42.35



Peak Integration Report

Sample Name:	**L2434679-04**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**25-Jun-2024 / 13:06**	*Run Time:*	**10.00**

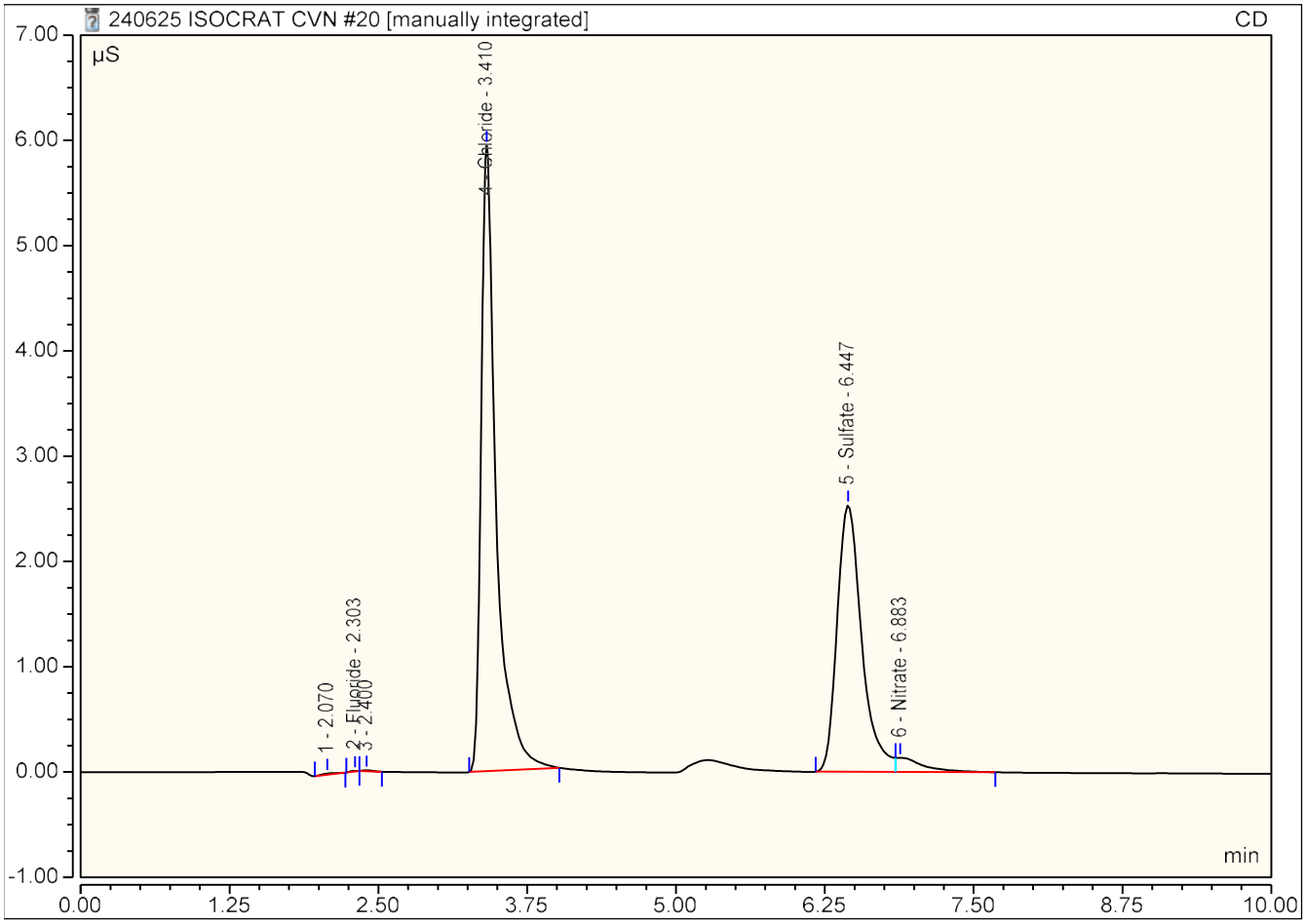
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.30	**Fluoride**	BMB	0.035	0.283	0.1106
3	3.40	**Chloride**	BMB*	8.622	57.294	20.4017
4	5.76	**Bromide**	BMB	0.006	0.036	0.0928
5	6.33	**Sulfate**	BMB	4.756	16.970	16.0424
TOTAL:				13.42	74.58	36.65



Peak Integration Report

Sample Name:	**XL2434679-06; 10X**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**10.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**25-Jun-2024 / 13:18**	*Run Time:*	**10.00**

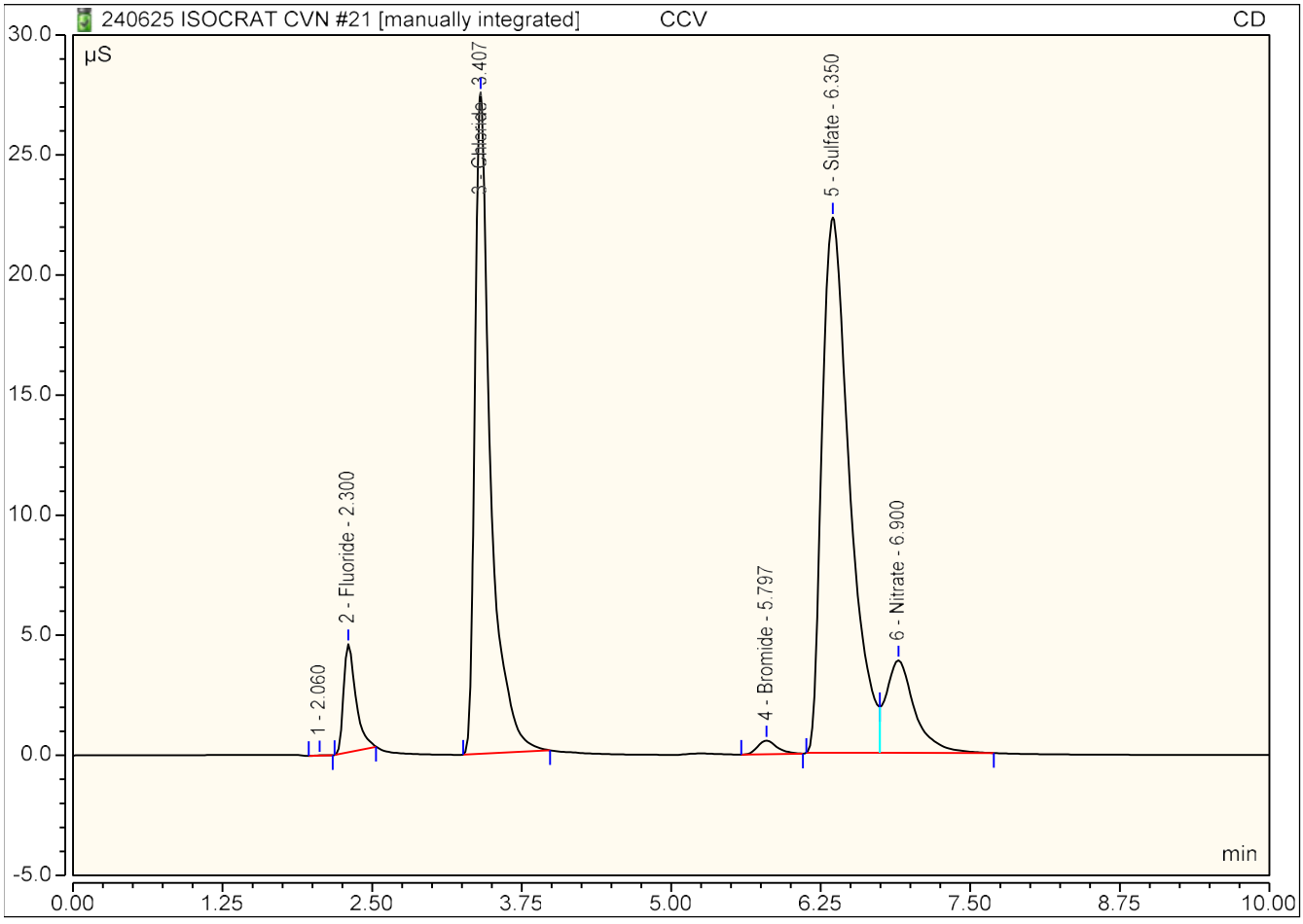
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.30	**Fluoride**	BMB	0.000	0.006	0.4840
4	3.41	**Chloride**	BMB*	0.870	5.942	22.5073
5	6.45	**Sulfate**	BM *	0.608	2.532	22.5406
6	6.88	**Nitrate**	MB*	0.036	0.134	0.5723
TOTAL:				1.51	8.61	46.10



Peak Integration Report

Sample Name:	**CCV**	*Inj. Vol.:*	**25.00**
Injection Type:	**Check Standard**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**25-Jun-2024 / 13:30**	*Run Time:*	**10.00**

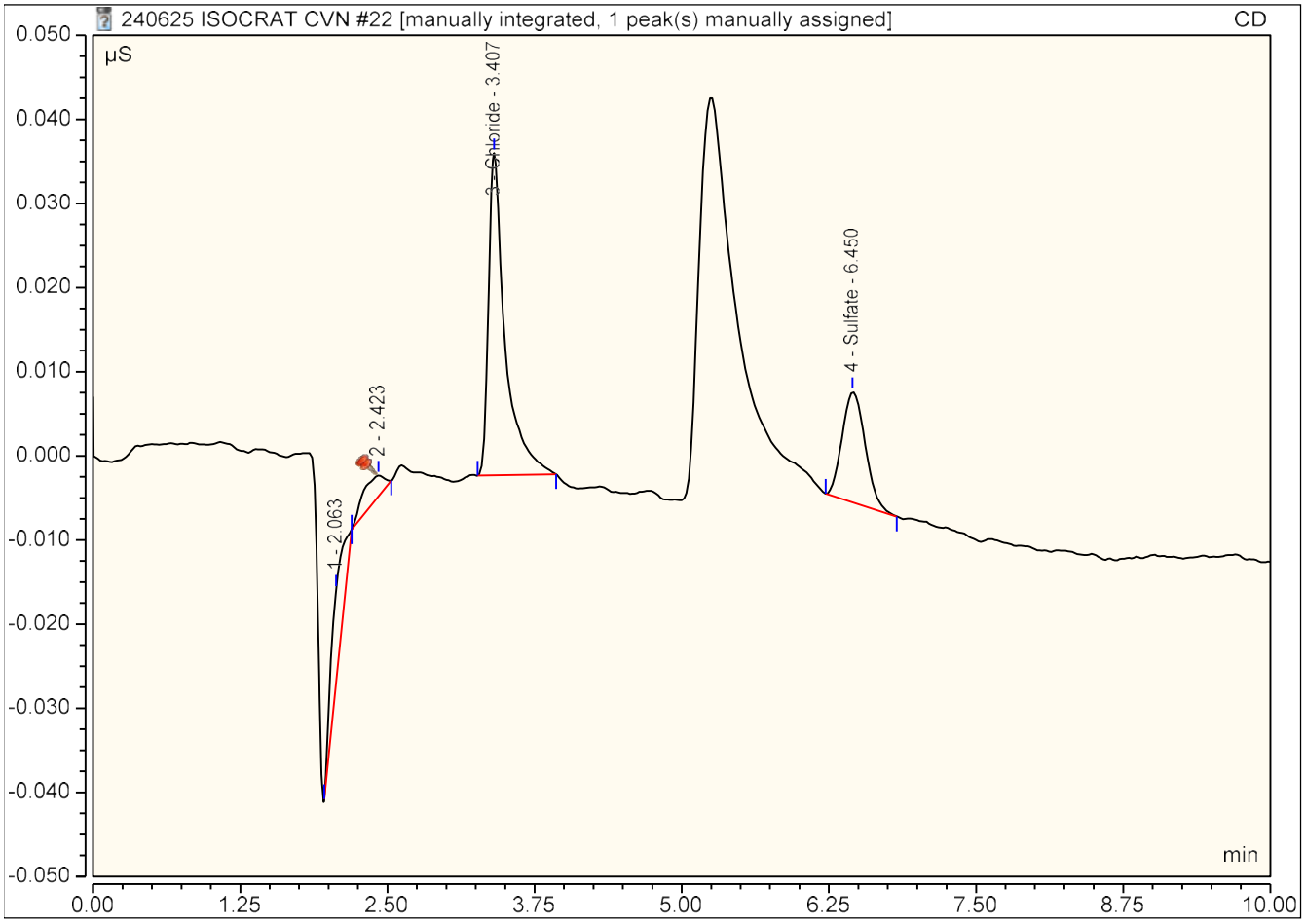
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.30	**Fluoride**	BMB	0.535	4.506	1.0010
3	3.41	**Chloride**	BMB*	4.166	27.536	9.9690
4	5.80	**Bromide**	BMB	0.107	0.571	1.0305
5	6.35	**Sulfate**	BM *	5.979	22.287	20.1077
6	6.90	**Nitrate**	MB*	1.079	3.856	0.9224
TOTAL:				11.87	58.76	33.03



Peak Integration Report

Sample Name:	**CCB**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**25-Jun-2024 / 13:42**	*Run Time:*	**10.00**

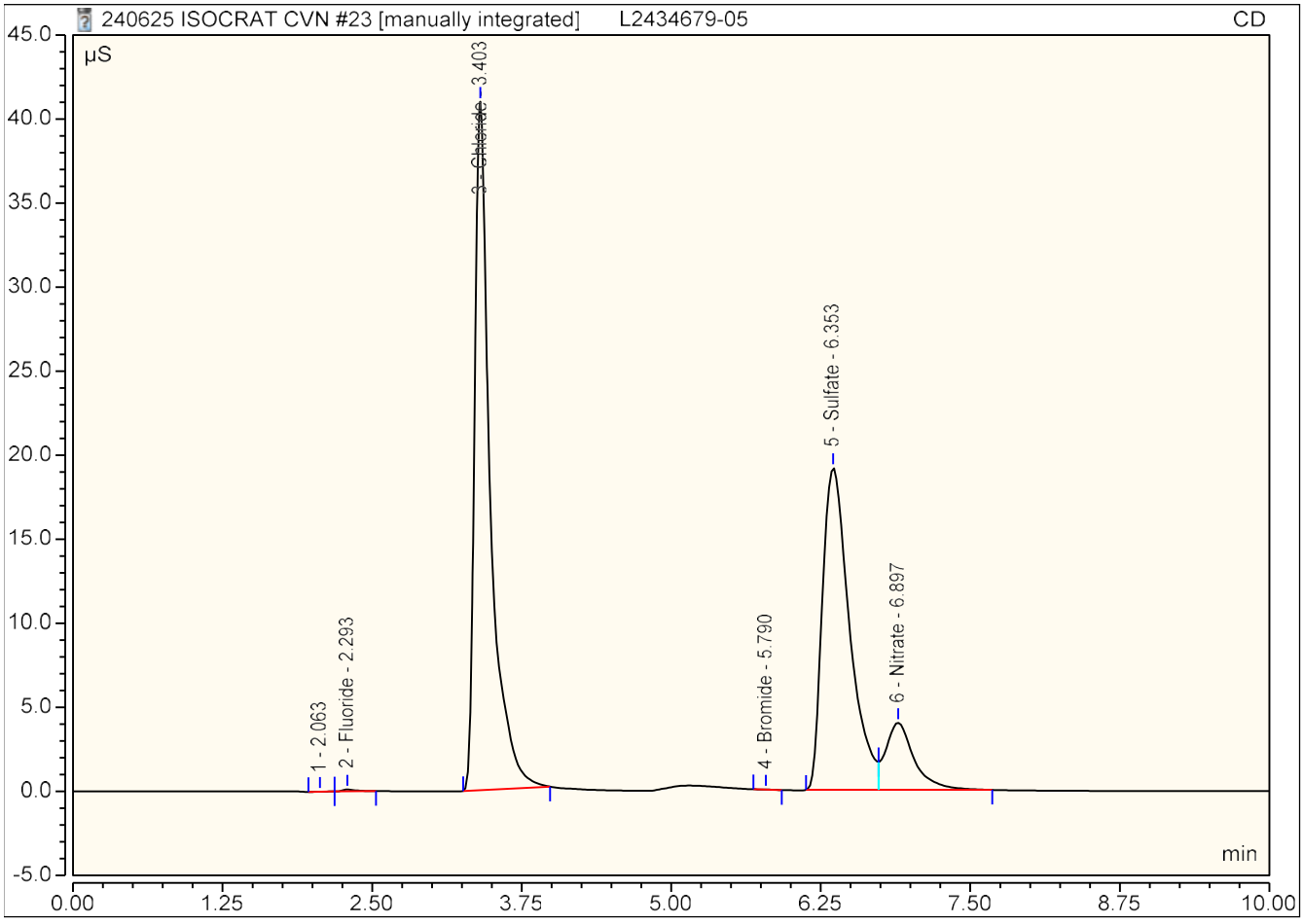
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
3	3.41	**Chloride**	BMB*	0.006	0.038	0.2289
4	6.45	**Sulfate**	BMB	0.003	0.013	0.2430
TOTAL:				0.01	0.05	0.47



Peak Integration Report

Sample Name:	**L2434679-05**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**25-Jun-2024 / 13:54**	*Run Time:*	**10.00**

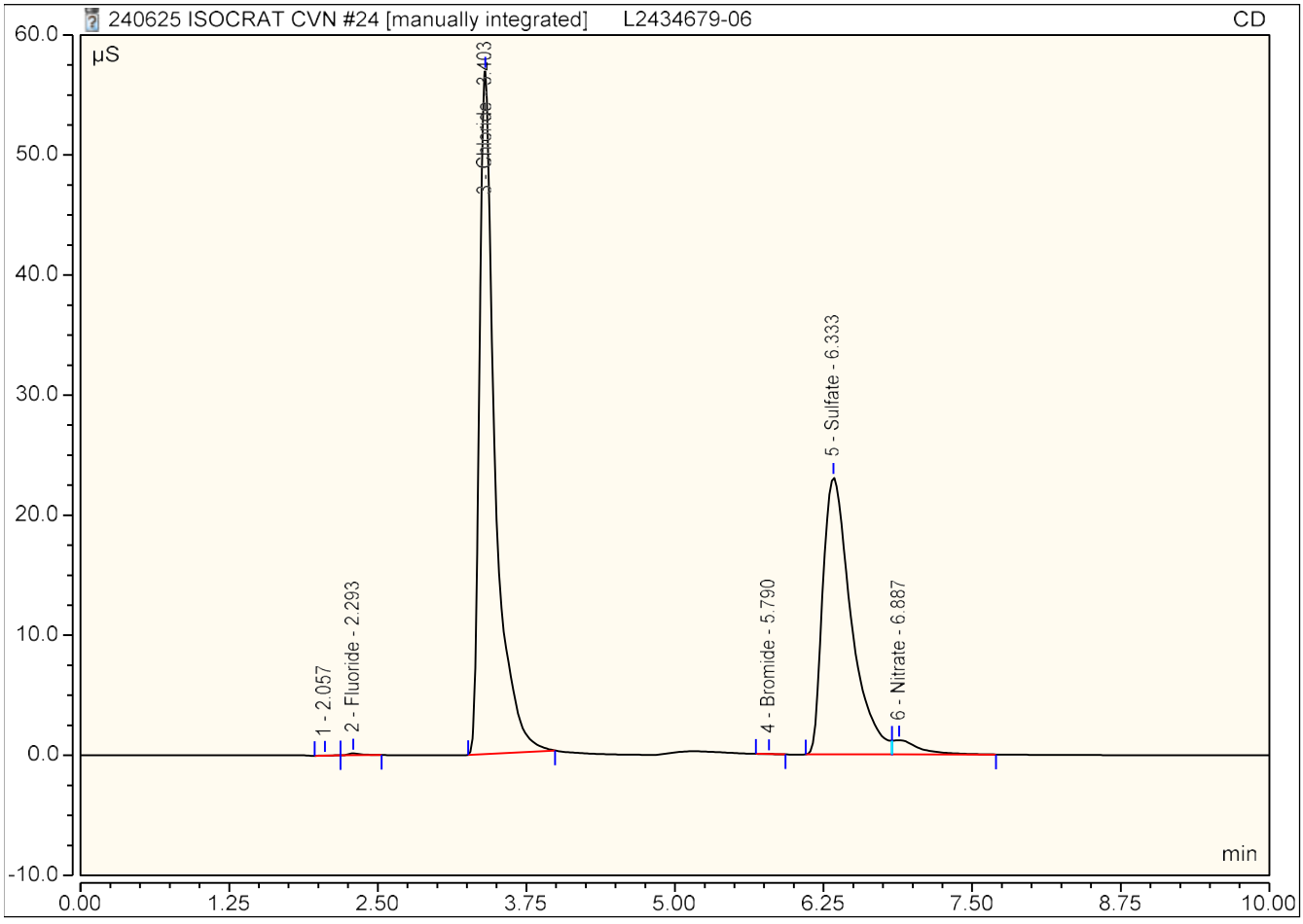
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.29	**Fluoride**	BMB	0.015	0.117	0.0737
3	3.40	**Chloride**	BMB*	6.200	40.949	14.7304
4	5.79	**Bromide**	BMB	0.001	0.005	0.0406
5	6.35	**Sulfate**	BM *	5.044	19.151	16.9981
6	6.90	**Nitrate**	MB*	1.099	3.990	0.9390
TOTAL:				12.36	64.21	32.78



Peak Integration Report

Sample Name:	**L2434679-06**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**25-Jun-2024 / 14:06**	*Run Time:*	**10.00**

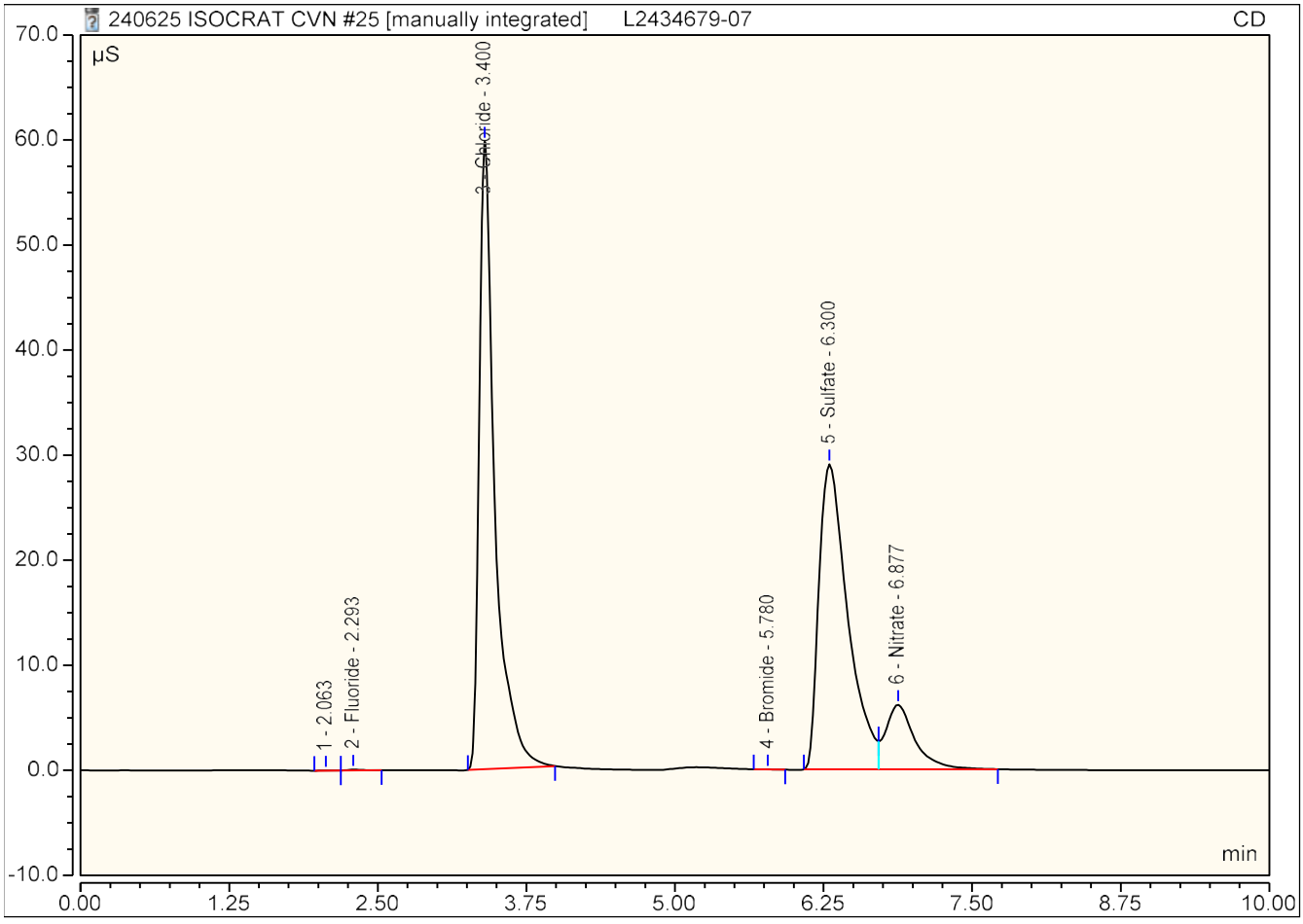
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.29	**Fluoride**	BMB	0.020	0.161	0.0832
3	3.40	**Chloride**	BMB*	8.680	56.858	20.5375
4	5.79	**Bromide**	BMB	0.001	0.007	0.0434
5	6.33	**Sulfate**	BM *	6.392	23.052	21.4789
6	6.89	**Nitrate**	MB*	0.308	1.188	0.2833
TOTAL:				15.40	81.27	42.43



Peak Integration Report

Sample Name:	**L2434679-07**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**25-Jun-2024 / 14:18**	*Run Time:*	**10.00**

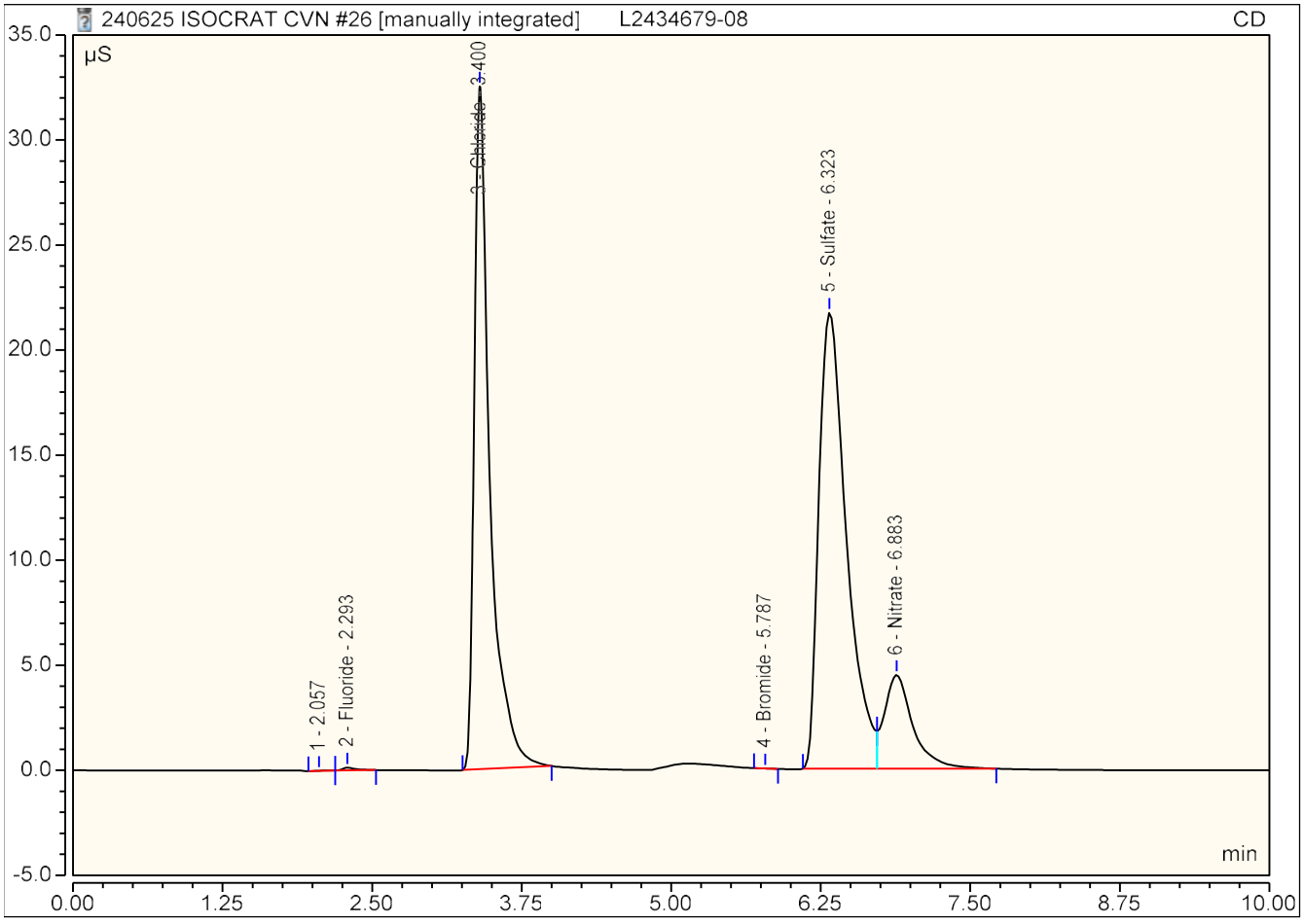
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.29	**Fluoride**	BMB	0.009	0.071	0.0641
3	3.40	**Chloride**	BMB*	9.118	59.763	21.5641
4	5.78	**Bromide**	BMB	0.001	0.009	0.0454
5	6.30	**Sulfate**	BM *	8.166	29.031	27.3774
6	6.88	**Nitrate**	MB*	1.752	6.145	1.4805
TOTAL:				19.05	95.02	50.53



Peak Integration Report

Sample Name:	**L2434679-08**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**25-Jun-2024 / 14:30**	*Run Time:*	**10.00**

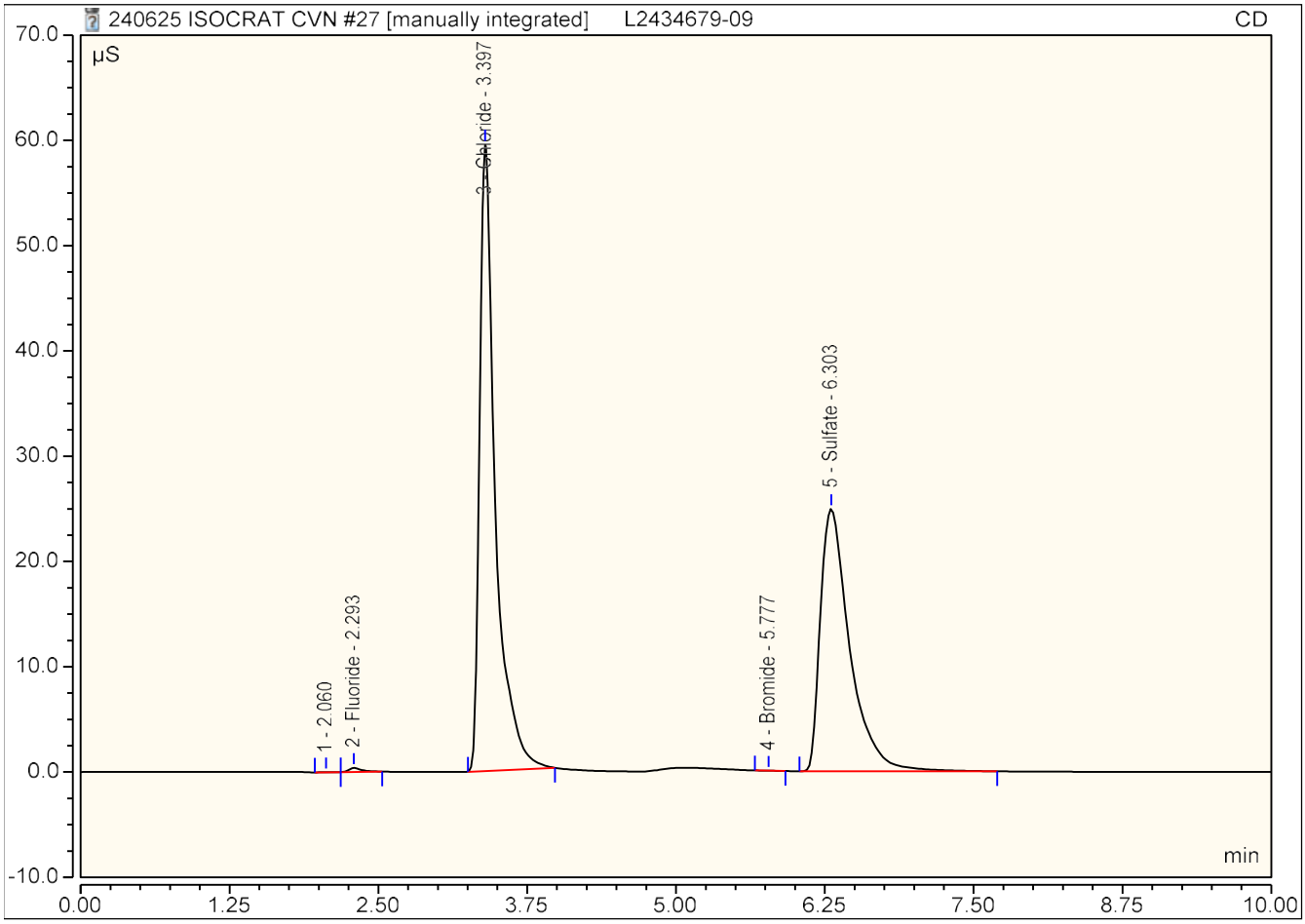
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.29	**Fluoride**	BMB	0.017	0.134	0.0773
3	3.40	**Chloride**	BMB*	4.895	32.495	11.6742
4	5.79	**Bromide**	BMB	0.000	0.003	0.0377
5	6.32	**Sulfate**	BM *	5.813	21.698	19.5553
6	6.88	**Nitrate**	MB*	1.237	4.456	1.0535
TOTAL:				11.96	58.79	32.40



Peak Integration Report

Sample Name:	**L2434679-09**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**25-Jun-2024 / 14:42**	*Run Time:*	**10.00**

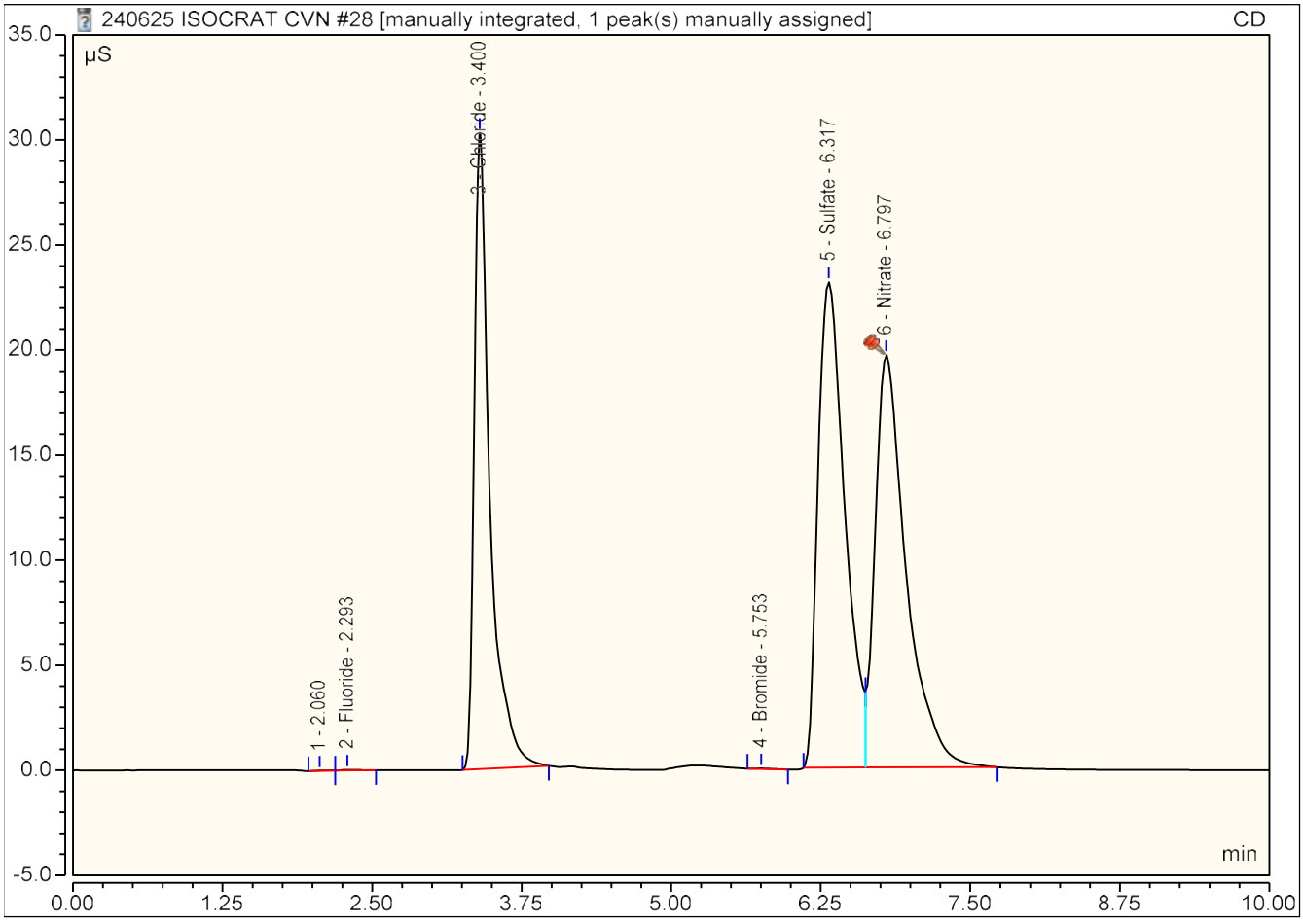
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.29	**Fluoride**	BMB	0.047	0.389	0.1308
3	3.40	**Chloride**	BMB*	9.093	59.504	21.5038
4	5.78	**Bromide**	BMB	0.001	0.008	0.0453
5	6.30	**Sulfate**	BMB	7.128	24.924	23.9248
TOTAL:				16.27	84.83	45.60



Peak Integration Report

Sample Name:	**L2434679-10**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**25-Jun-2024 / 14:54**	*Run Time:*	**10.00**

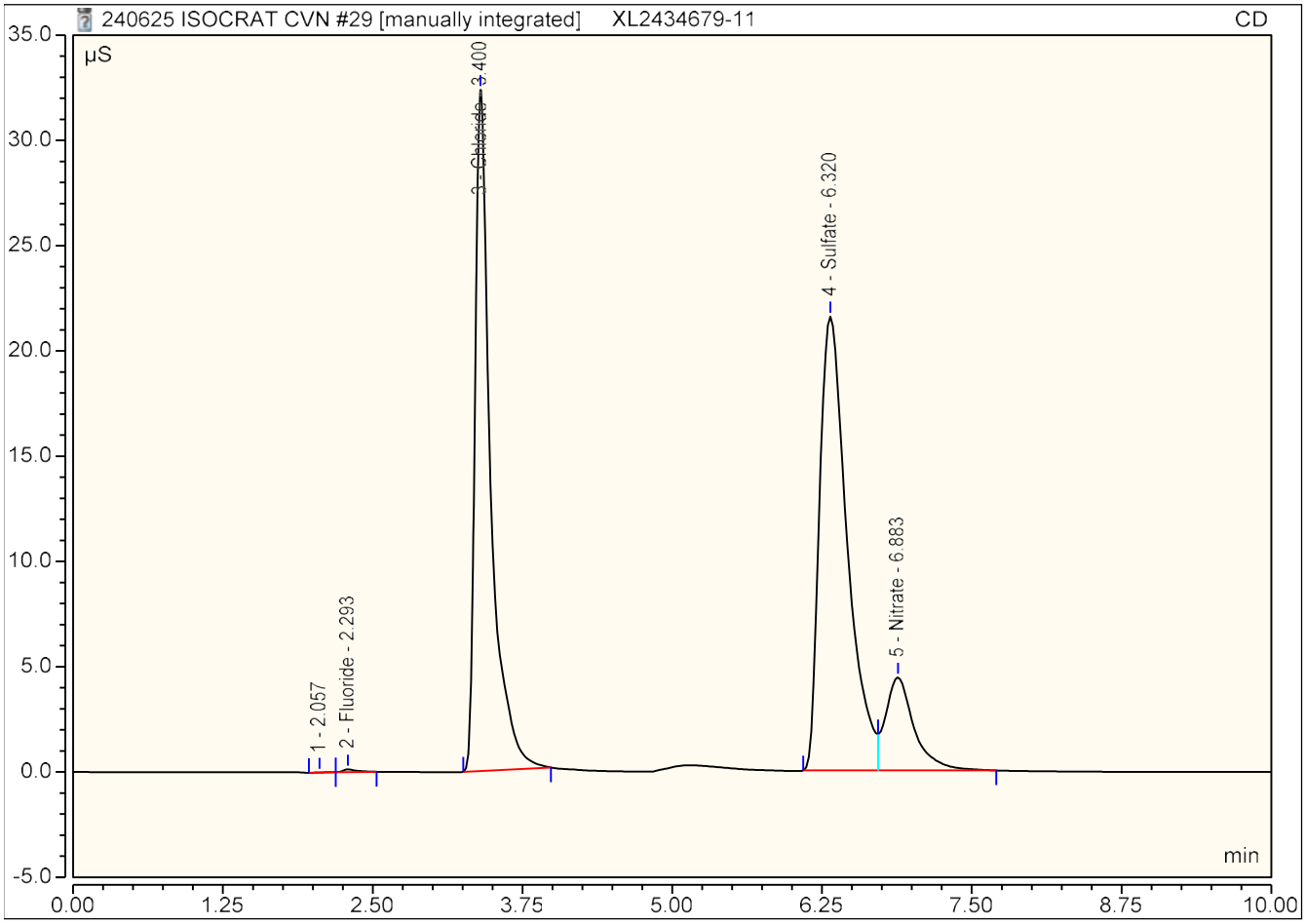
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.29	**Fluoride**	BMB	0.004	0.029	0.0552
3	3.40	**Chloride**	BMB*	4.568	30.283	10.9092
4	5.75	**Bromide**	BMB	0.003	0.019	0.0647
5	6.32	**Sulfate**	BM *	5.990	23.115	20.1420
6	6.80	**Nitrate**	MB*^	5.895	19.625	4.9158
TOTAL:				16.46	73.07	36.09



Peak Integration Report

Sample Name:	**XL2434679-11**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**25-Jun-2024 / 15:07**	*Run Time:*	**10.00**

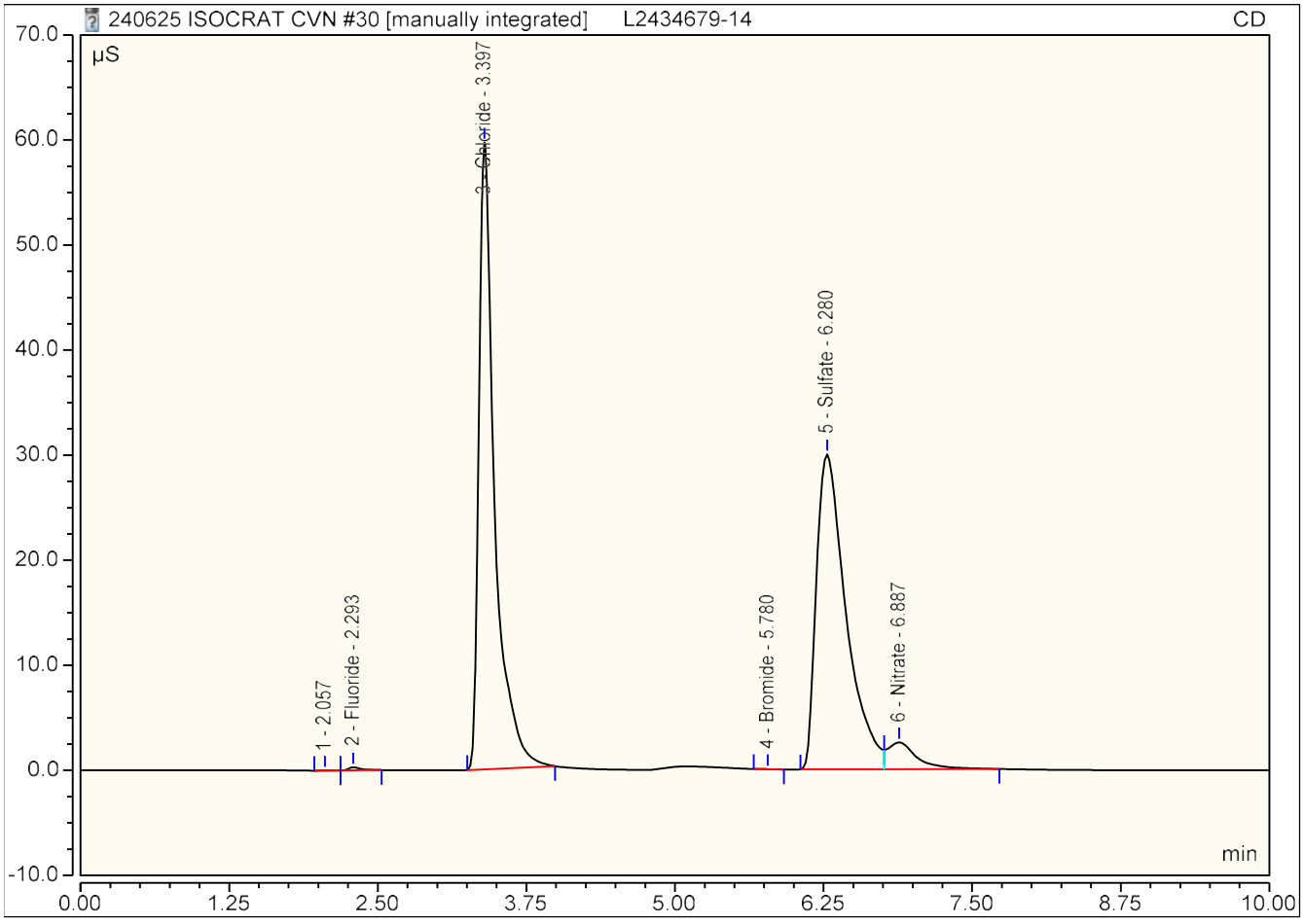
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.29	**Fluoride**	BMB	0.017	0.132	0.0778
3	3.40	**Chloride**	BMB*	4.867	32.347	11.6088
4	6.32	**Sulfate**	BM *	5.772	21.563	19.4170
5	6.88	**Nitrate**	MB*	1.225	4.420	1.0433
TOTAL:				11.88	58.46	32.15



Peak Integration Report

Sample Name:	**L2434679-14**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**25-Jun-2024 / 15:19**	*Run Time:*	**10.00**

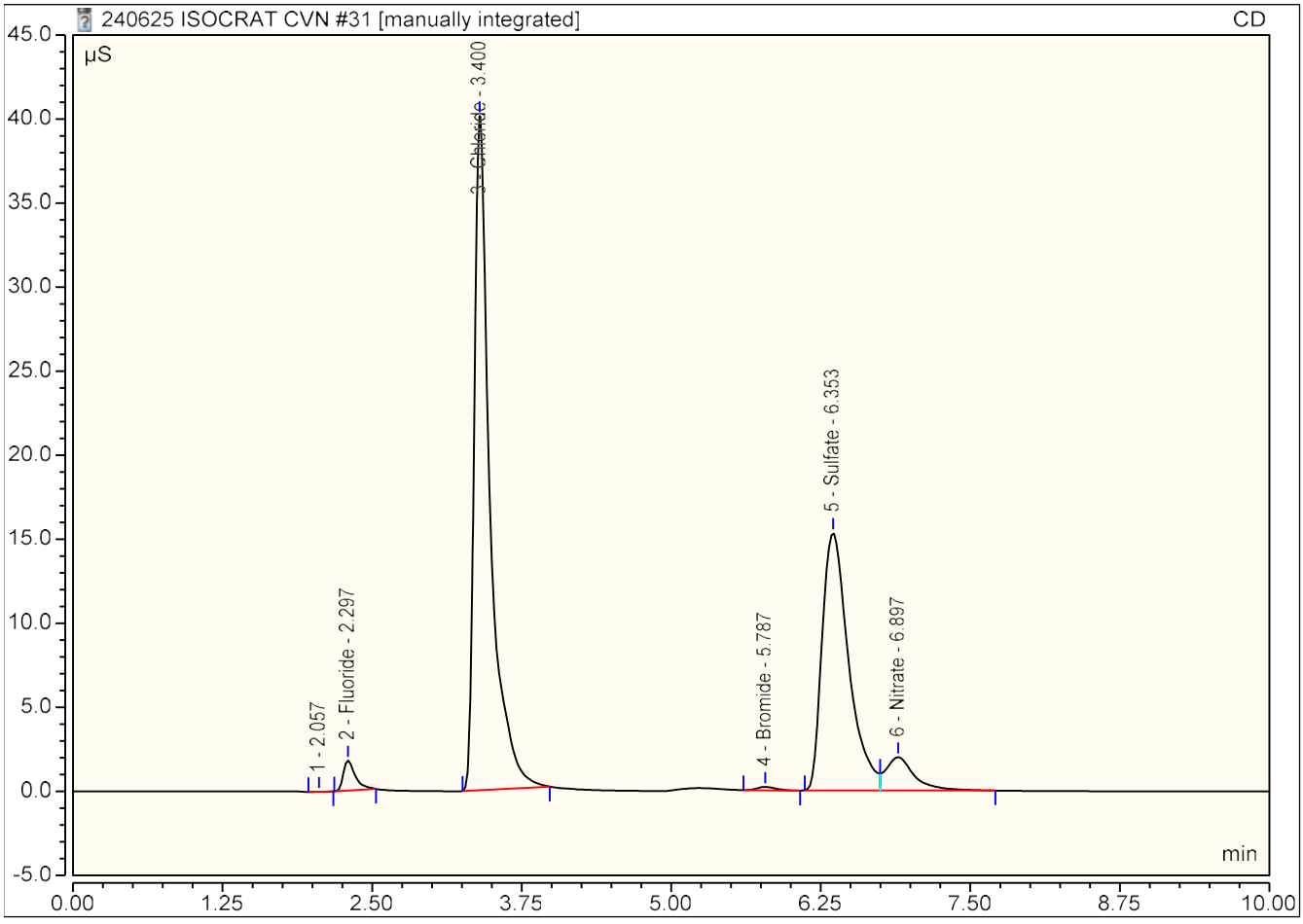
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.29	**Fluoride**	BMB	0.034	0.283	0.1087
3	3.40	**Chloride**	BMB*	9.133	59.672	21.5988
4	5.78	**Bromide**	BMB	0.001	0.007	0.0433
5	6.28	**Sulfate**	BM *	8.665	29.989	29.0345
6	6.89	**Nitrate**	MB*	0.732	2.553	0.6346
TOTAL:				18.57	92.50	51.42



Peak Integration Report

Sample Name:	**L2434679-01 MS**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**25-Jun-2024 / 15:31**	*Run Time:*	**10.00**

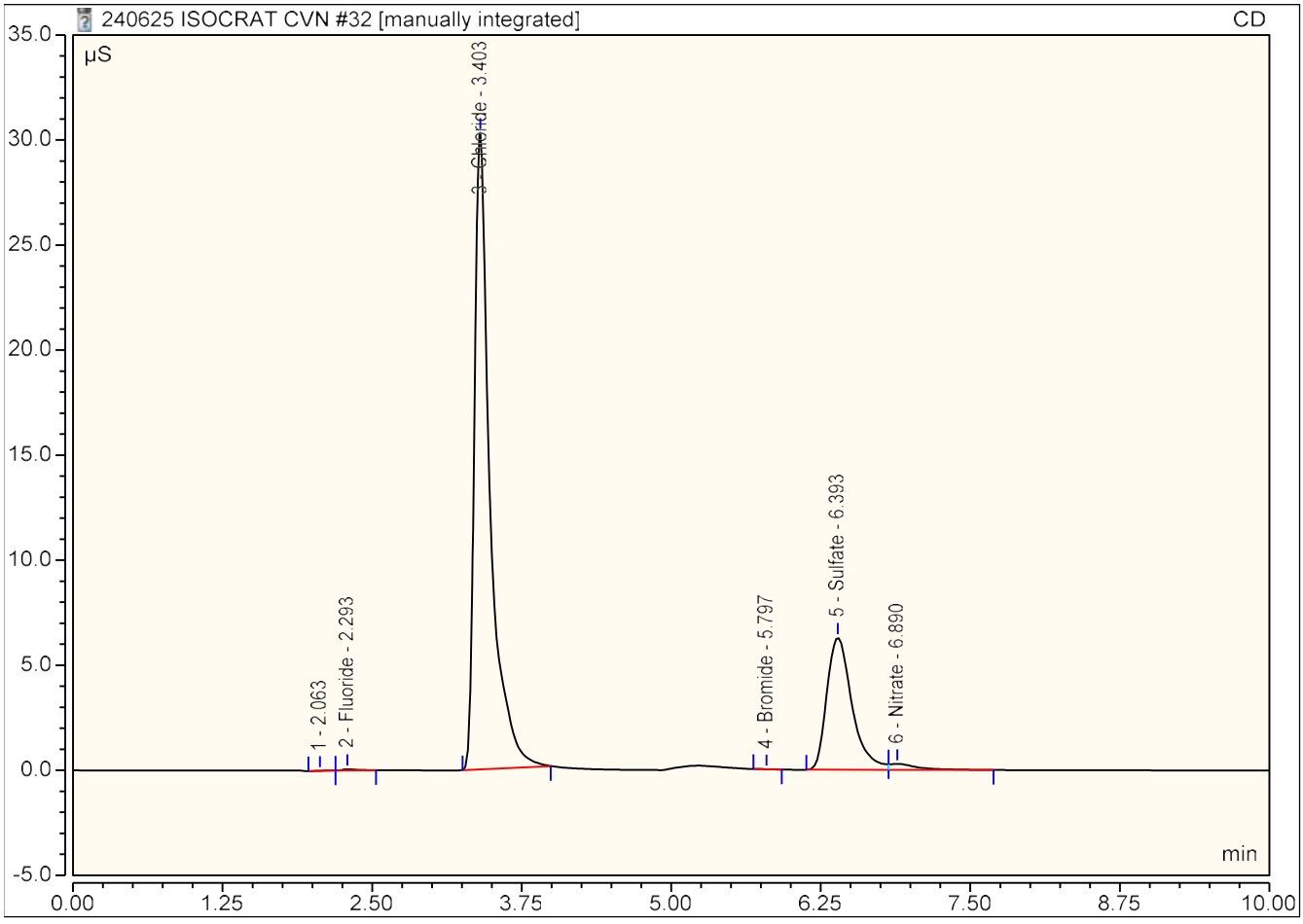
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.30	**Fluoride**	BMB	0.206	1.792	0.4157
3	3.40	**Chloride**	BMB*	6.108	40.104	14.5147
4	5.79	**Bromide**	BMB	0.038	0.207	0.3873
5	6.35	**Sulfate**	BM *	3.938	15.320	13.3236
6	6.90	**Nitrate**	MB*	0.545	1.977	0.4796
TOTAL:				10.84	59.40	29.12



Peak Integration Report

Sample Name:	**L2434679-01 DUP**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**25-Jun-2024 / 15:43**	*Run Time:*	**10.00**

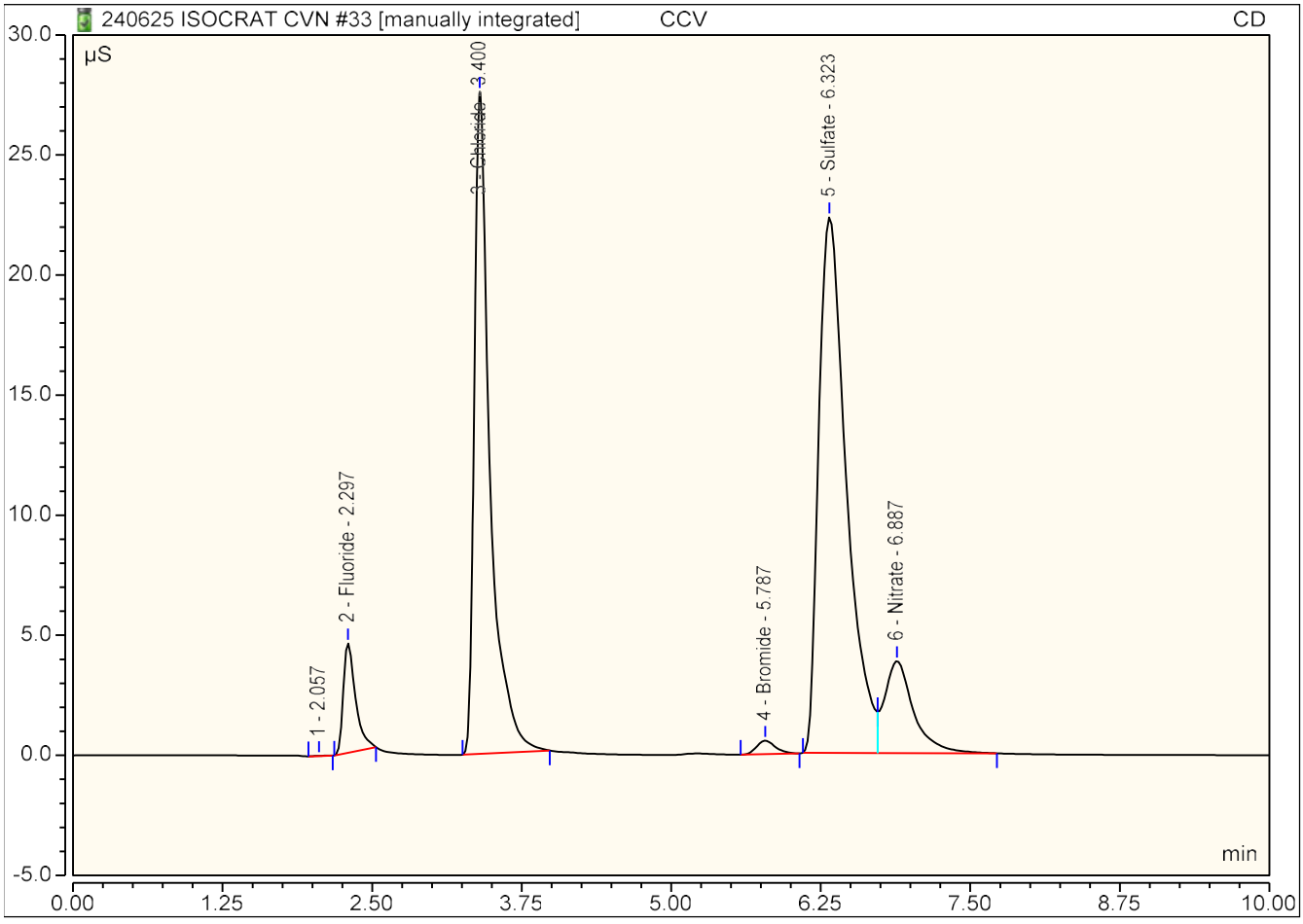
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.29	**Fluoride**	BMB	0.008	0.063	0.0624
3	3.40	**Chloride**	BMB*	4.574	30.293	10.9238
4	5.80	**Bromide**	BMB	0.000	0.003	0.0392
5	6.39	**Sulfate**	BM *	1.532	6.285	5.3252
6	6.89	**Nitrate**	MB*	0.076	0.281	0.0904
TOTAL:				6.19	36.93	16.44



Peak Integration Report

Sample Name:	**CCV**	*Inj. Vol.:*	**25.00**
Injection Type:	**Check Standard**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**25-Jun-2024 / 15:55**	*Run Time:*	**10.00**

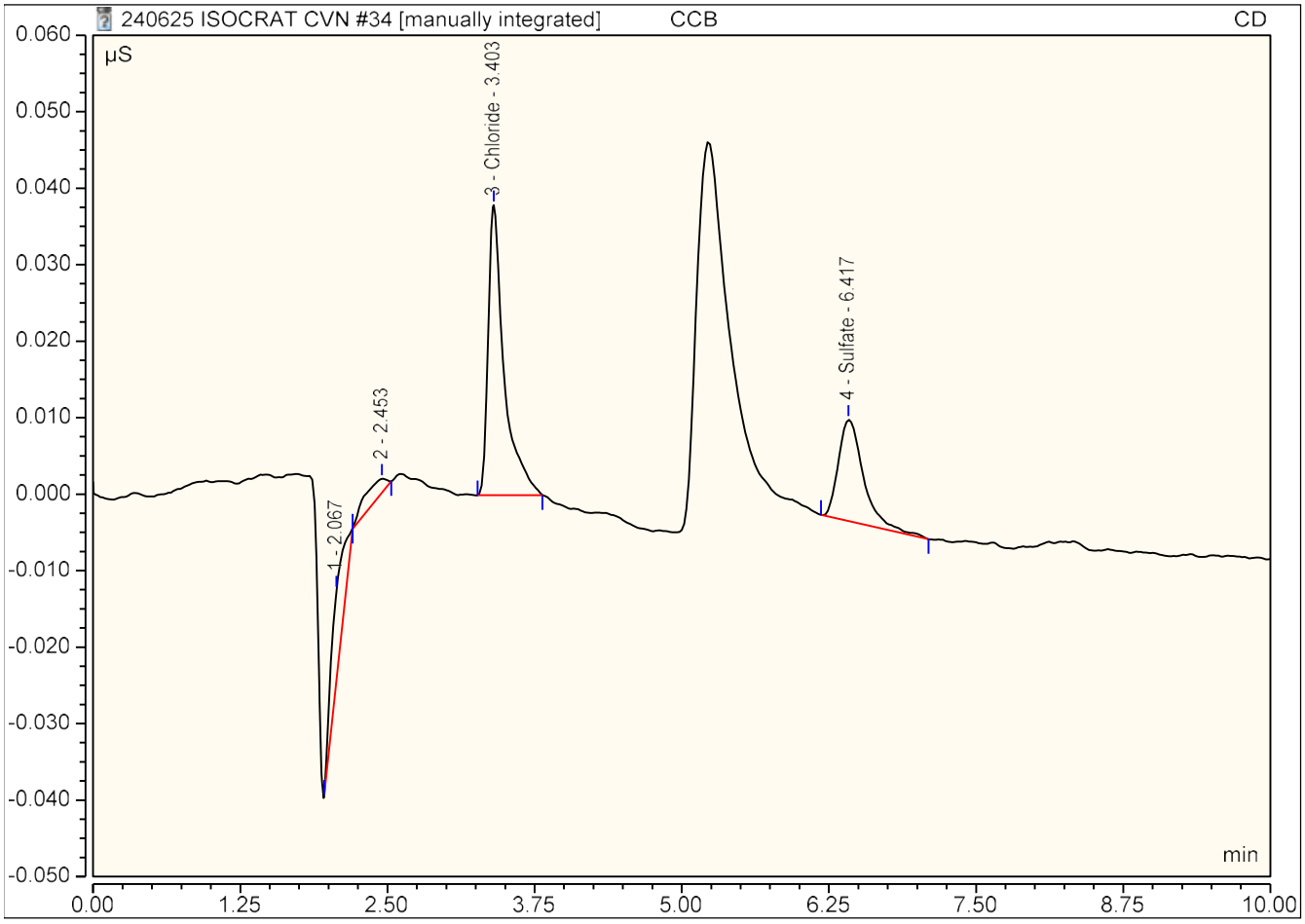
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.30	**Fluoride**	BMB	0.538	4.559	1.0064
3	3.40	**Chloride**	BMB*	4.168	27.578	9.9732
4	5.79	**Bromide**	BMB	0.105	0.570	1.0108
5	6.32	**Sulfate**	BM *	5.992	22.312	20.1487
6	6.89	**Nitrate**	MB*	1.077	3.831	0.9206
TOTAL:				11.88	58.85	33.06



Peak Integration Report

Sample Name:	**CCB**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**25-Jun-2024 / 16:07**	*Run Time:*	**10.00**

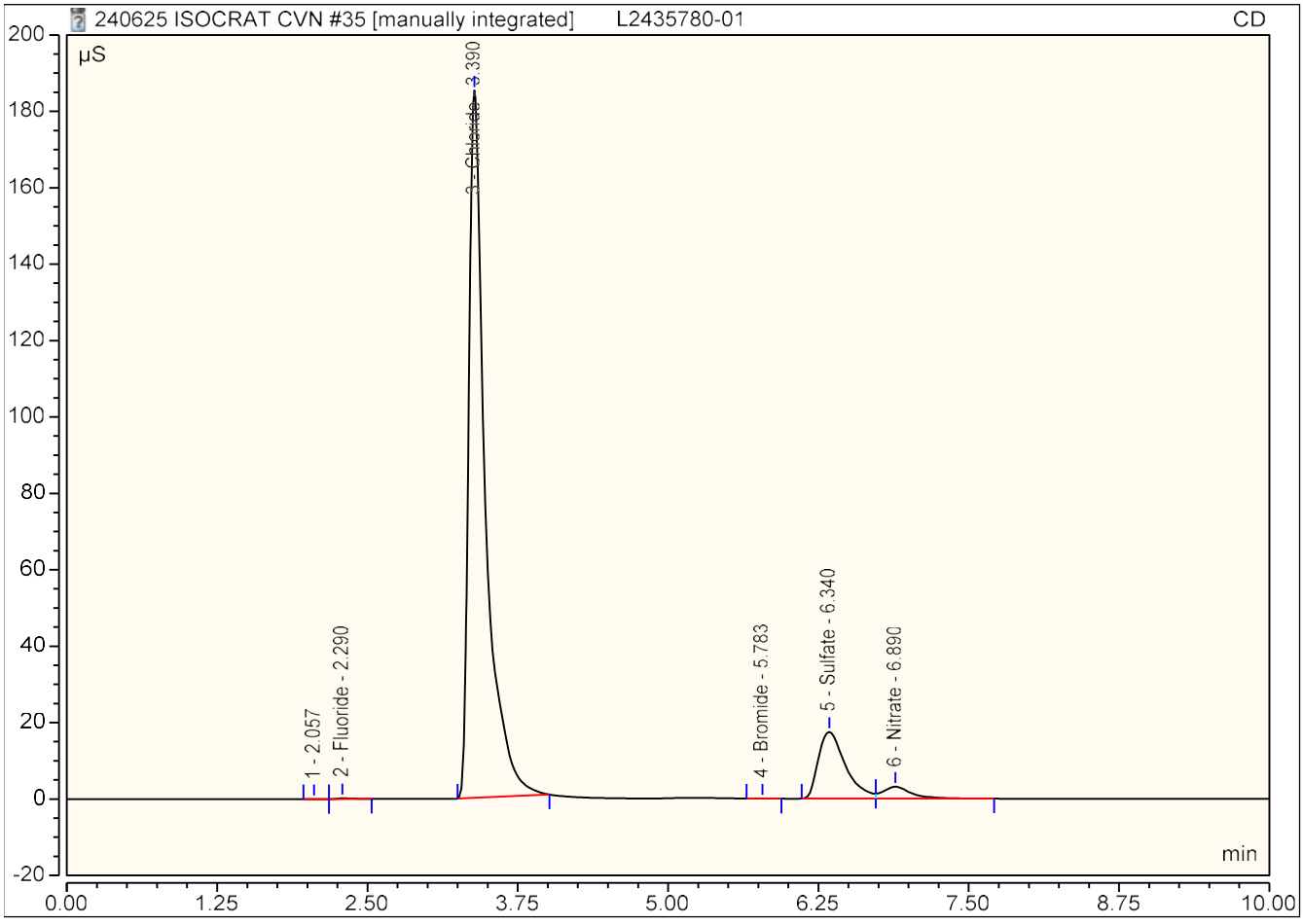
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
3	3.40	**Chloride**	BMB*	0.006	0.038	0.2281
4	6.42	**Sulfate**	BMB	0.003	0.013	0.2440
TOTAL:				0.01	0.05	0.47



Peak Integration Report

Sample Name:	**L2435780-01**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**25-Jun-2024 / 16:19**	*Run Time:*	**10.00**

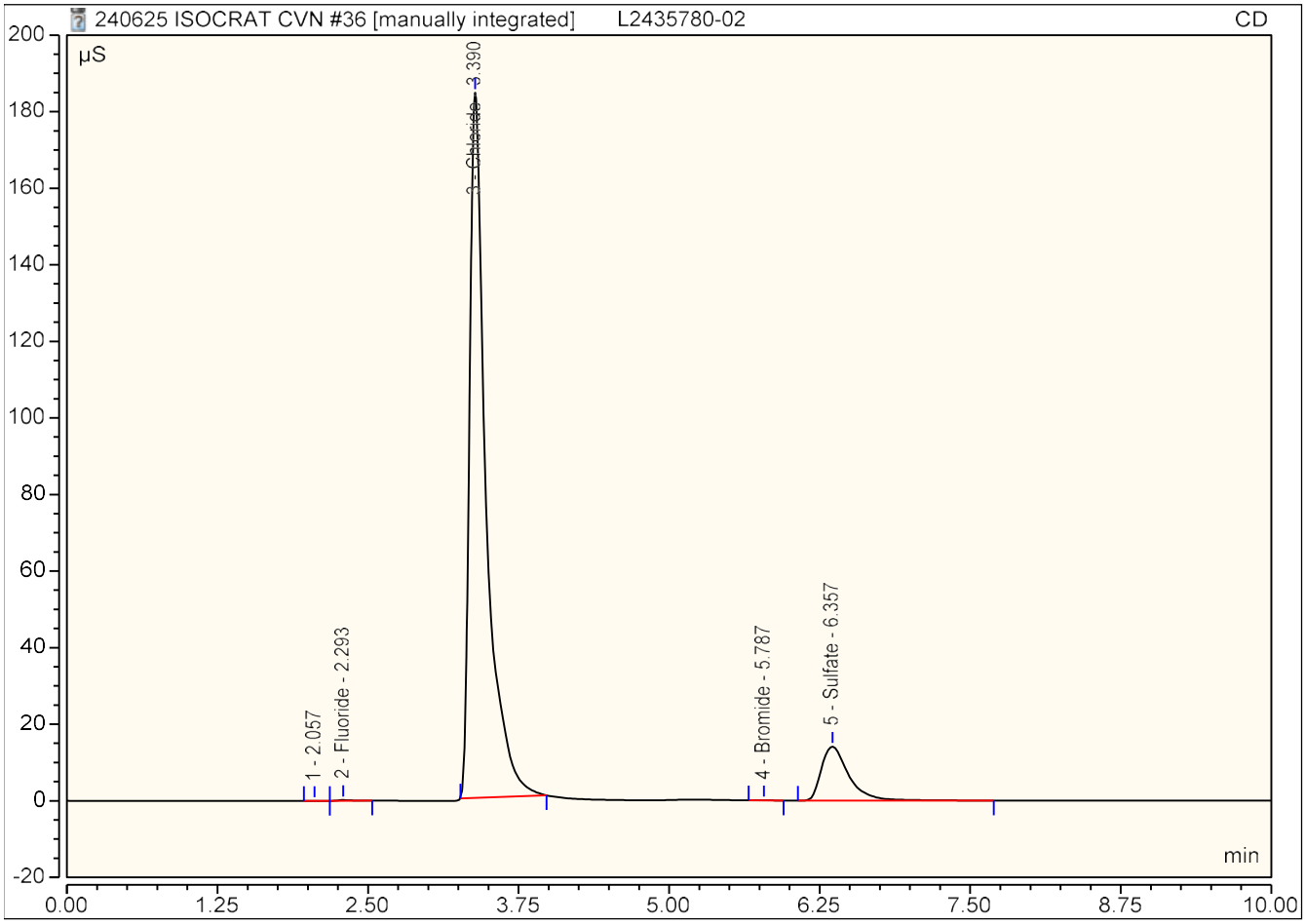
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.29	**Fluoride**	BMB	0.028	0.219	0.0979
3	3.39	**Chloride**	BMB*	29.491	185.134	69.2633
4	5.78	**Bromide**	BMB	0.002	0.014	0.0532
5	6.34	**Sulfate**	BM *	4.547	17.492	15.3456
6	6.89	**Nitrate**	MB*	0.859	3.129	0.7399
TOTAL:				34.93	205.99	85.50



Peak Integration Report

Sample Name:	**L2435780-02**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**25-Jun-2024 / 16:31**	*Run Time:*	**10.00**

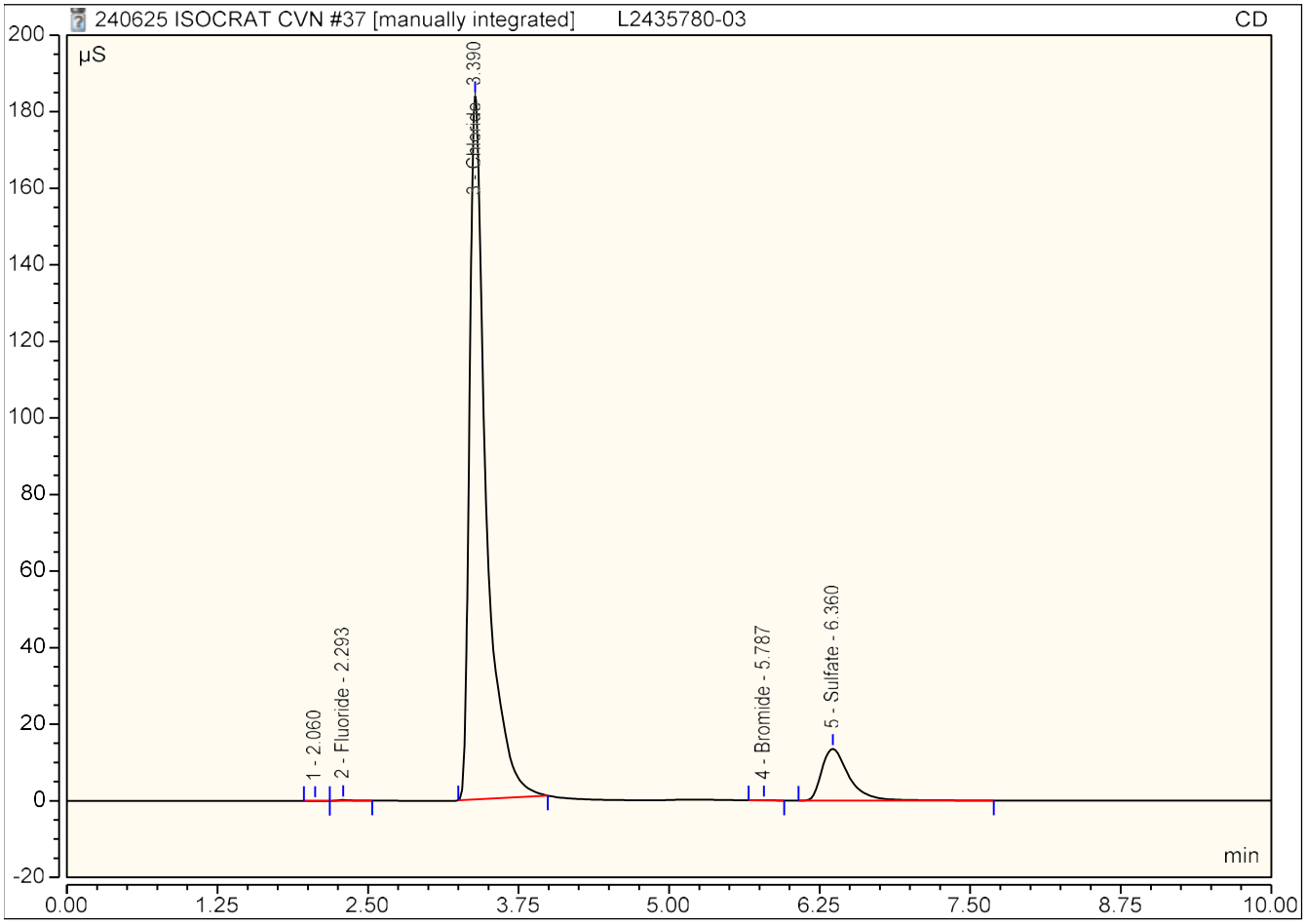
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.29	**Fluoride**	BMB	0.022	0.179	0.0875
3	3.39	**Chloride**	BMB*	29.142	184.179	68.4475
4	5.79	**Bromide**	BMB	0.002	0.011	0.0494
5	6.36	**Sulfate**	BMB	3.720	14.117	12.5965
TOTAL:				32.89	198.49	81.18



Peak Integration Report

Sample Name:	**L2435780-03**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**25-Jun-2024 / 16:43**	*Run Time:*	**10.00**

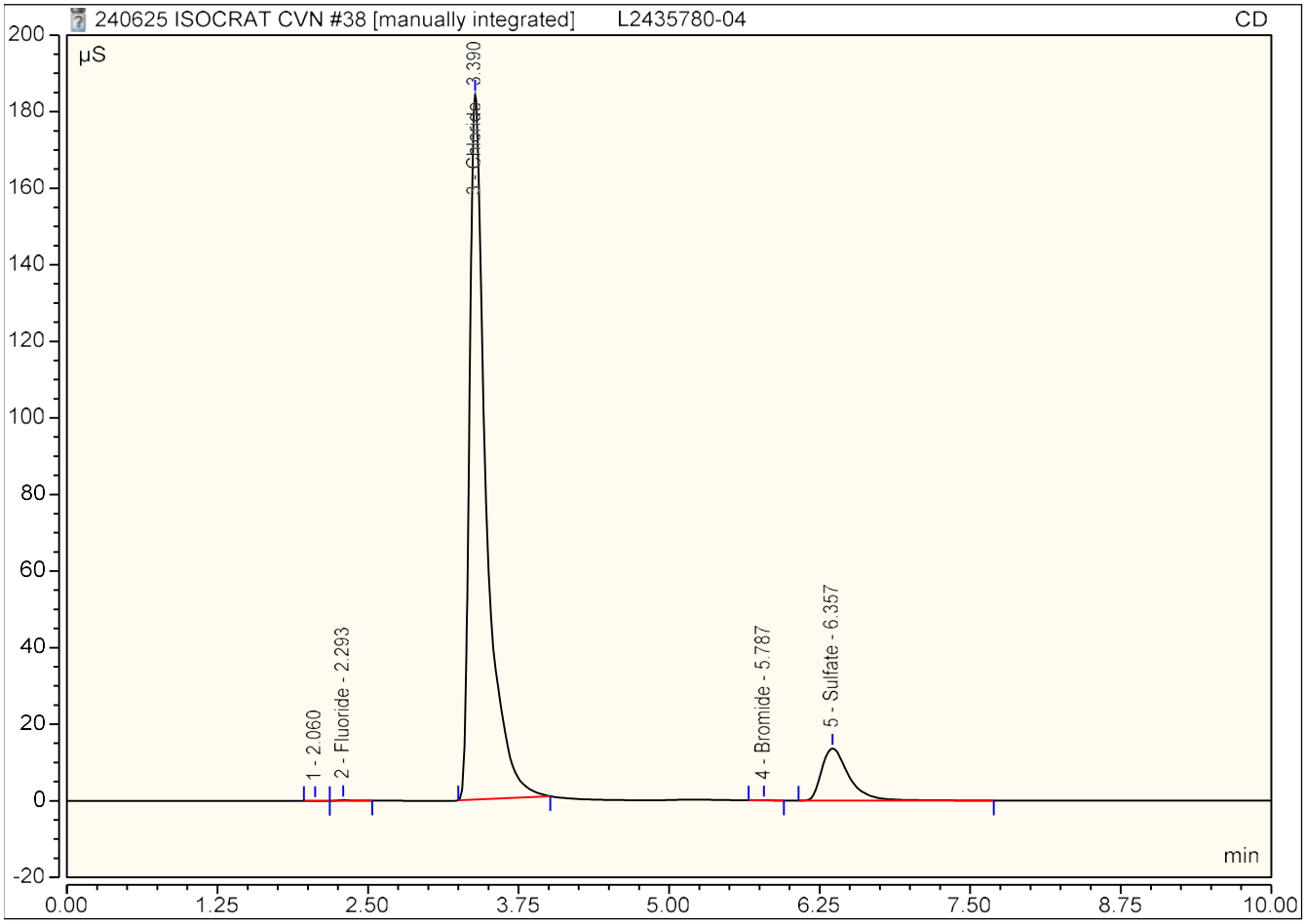
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.29	**Fluoride**	BMB	0.023	0.183	0.0886
3	3.39	**Chloride**	BMB*	29.377	183.793	68.9978
4	5.79	**Bromide**	BMB	0.002	0.011	0.0499
5	6.36	**Sulfate**	BMB	3.534	13.511	11.9794
TOTAL:				32.94	197.50	81.12



Peak Integration Report

Sample Name:	**L2435780-04**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**25-Jun-2024 / 16:55**	*Run Time:*	**10.00**

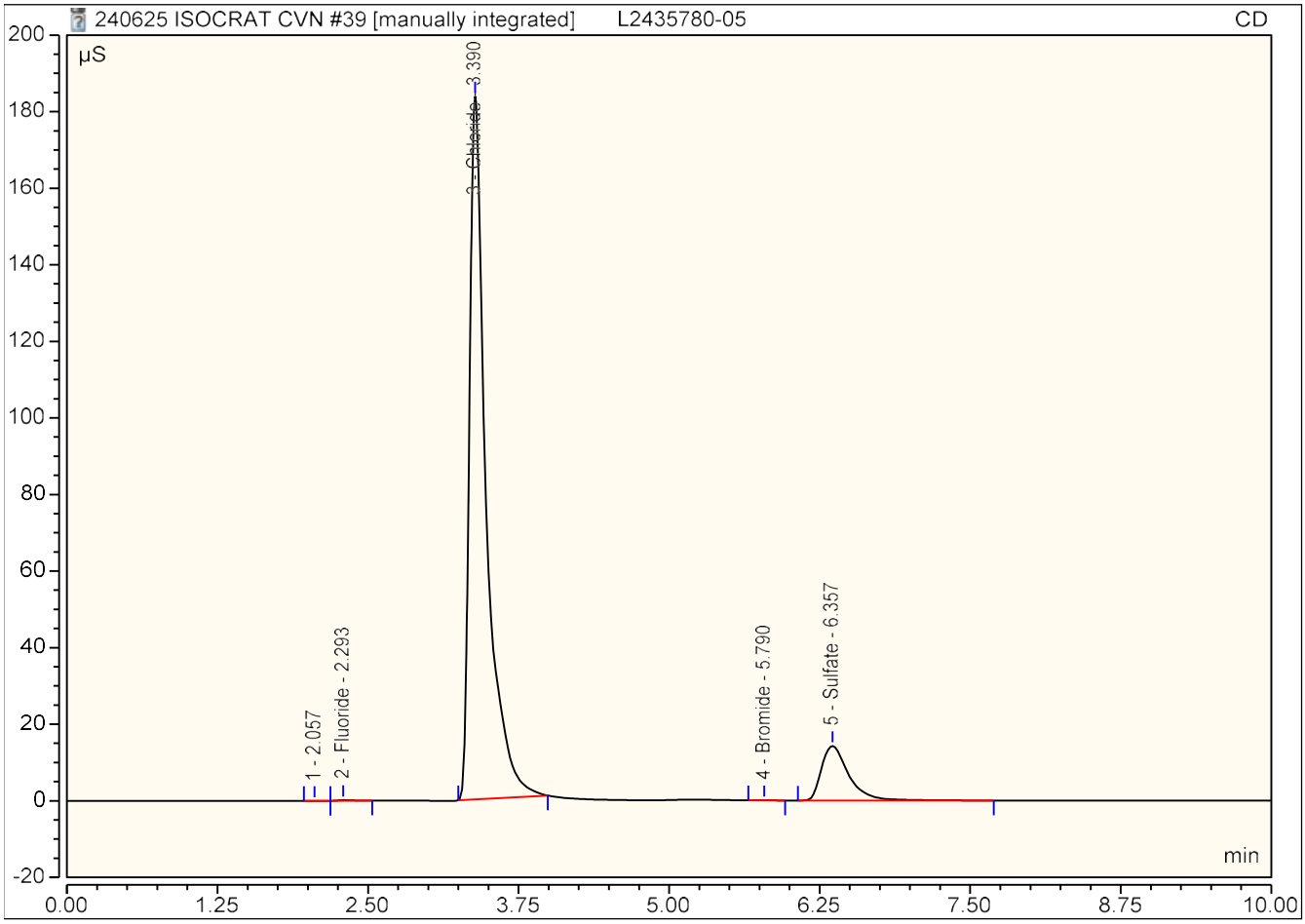
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.29	**Fluoride**	BMB	0.022	0.175	0.0862
3	3.39	**Chloride**	BMB*	29.522	184.156	69.3361
4	5.79	**Bromide**	BMB	0.001	0.011	0.0493
5	6.36	**Sulfate**	BMB	3.571	13.624	12.1022
TOTAL:				33.12	197.97	81.57



Peak Integration Report

Sample Name:	**L2435780-05**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**25-Jun-2024 / 17:07**	*Run Time:*	**10.00**

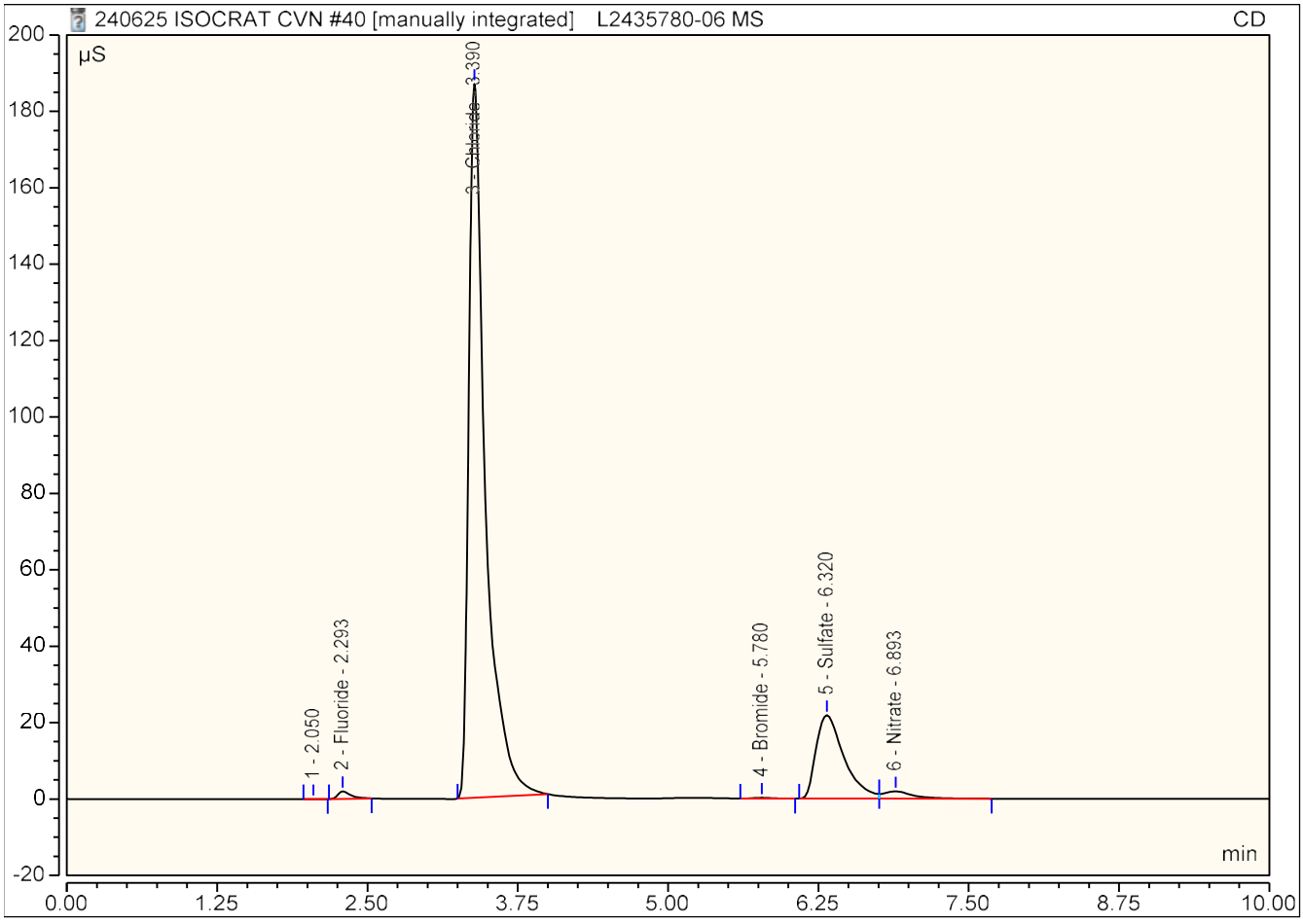
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.29	**Fluoride**	BMB	0.024	0.171	0.0906
3	3.39	**Chloride**	BMB*	29.364	183.622	68.9669
4	5.79	**Bromide**	BMB	0.002	0.012	0.0509
5	6.36	**Sulfate**	BMB	3.747	14.250	12.6870
TOTAL:				33.14	198.06	81.80



Peak Integration Report

Sample Name:	**L2435780-06 MS**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**25-Jun-2024 / 17:19**	*Run Time:*	**10.00**

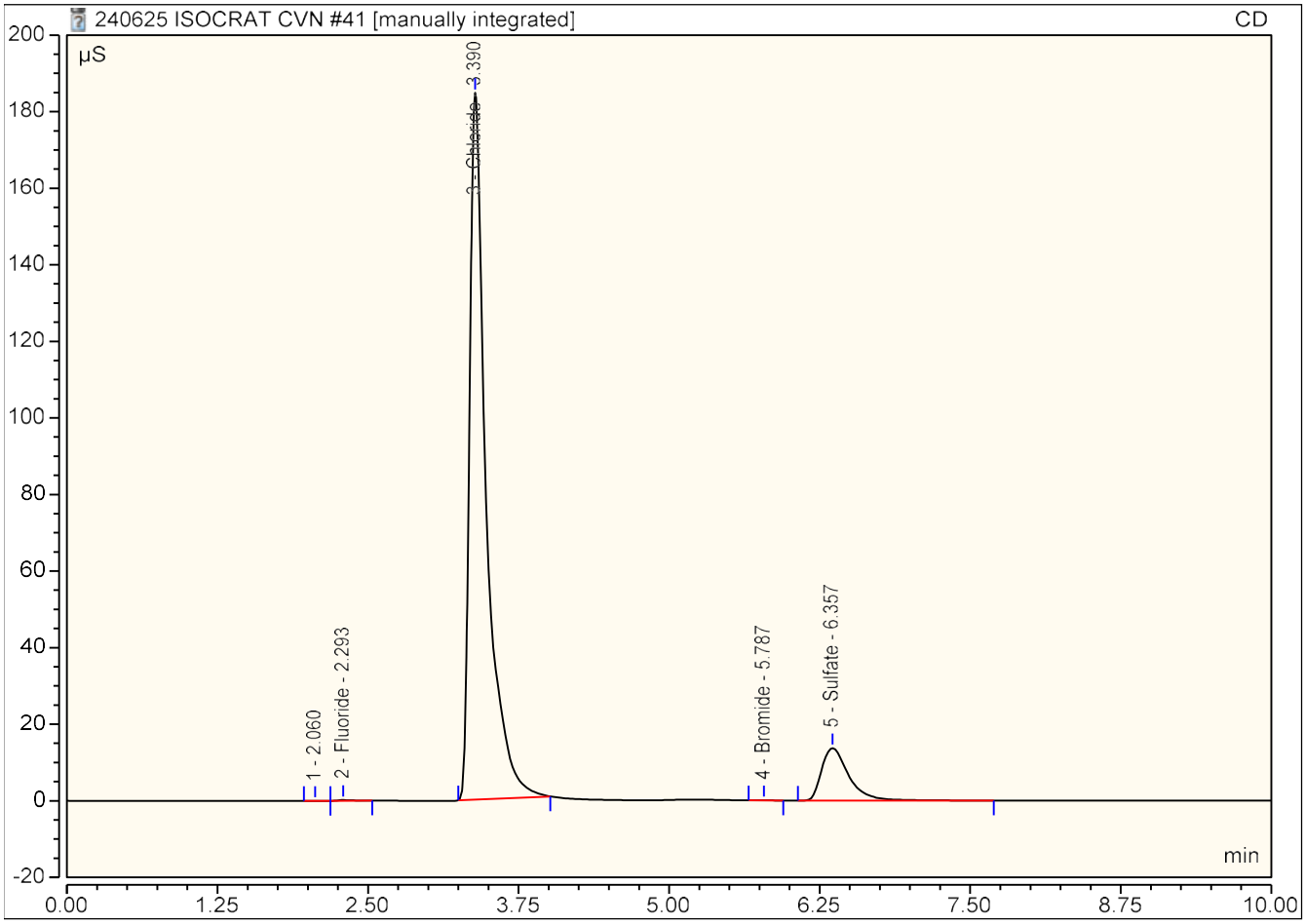
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.29	**Fluoride**	BMB	0.241	2.014	0.4766
3	3.39	**Chloride**	BMB*	29.853	186.867	70.1120
4	5.78	**Bromide**	BMB	0.039	0.220	0.4036
5	6.32	**Sulfate**	BM *	5.875	21.826	19.7604
6	6.89	**Nitrate**	MB*	0.539	1.920	0.4745
TOTAL:				36.55	212.85	91.23



Peak Integration Report

Sample Name:	**L2435780-06 DUP**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**25-Jun-2024 / 17:32**	*Run Time:*	**10.00**

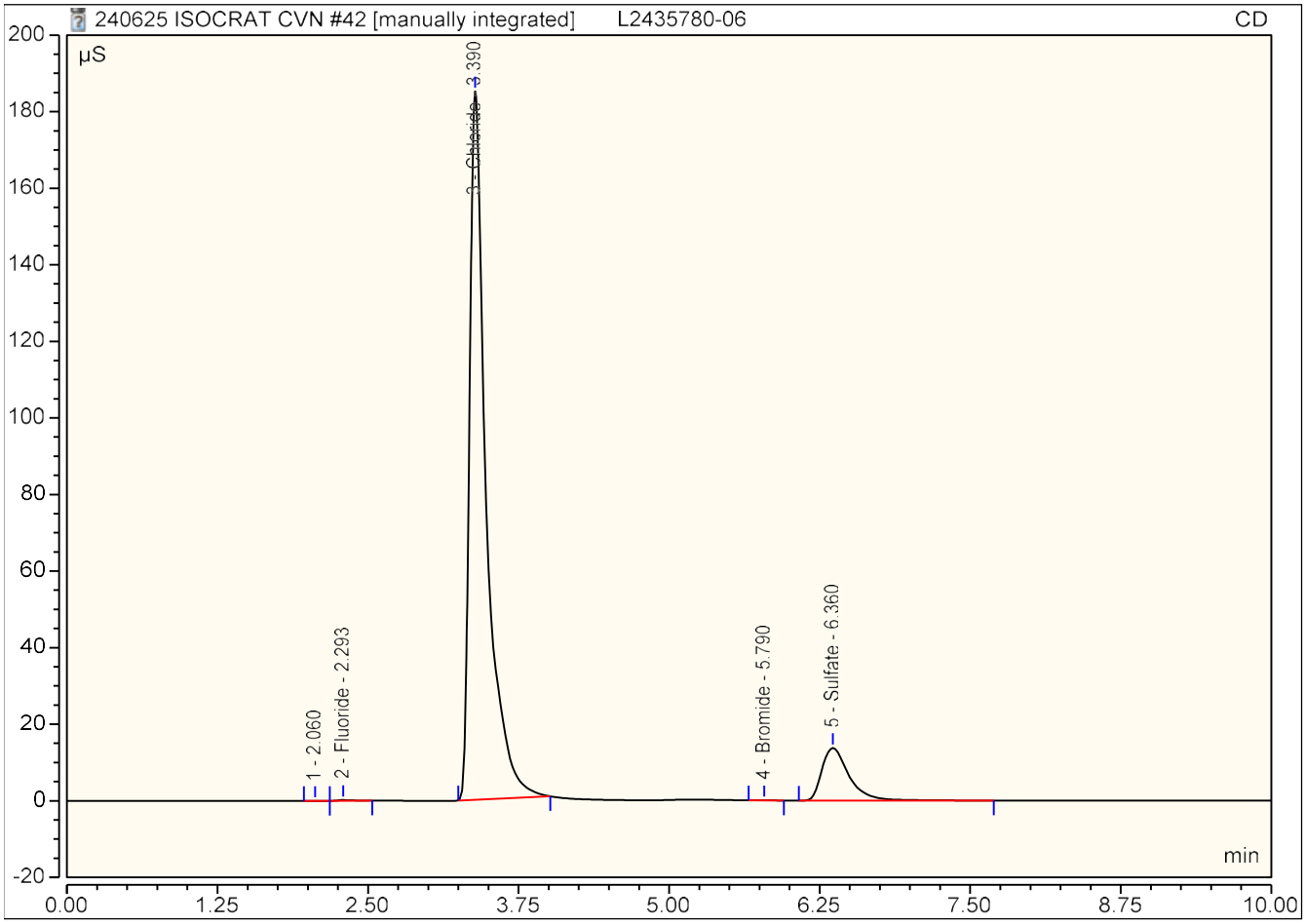
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.29	**Fluoride**	BMB	0.026	0.185	0.0938
3	3.39	**Chloride**	BMB*	29.474	184.587	69.2243
4	5.79	**Bromide**	BMB	0.001	0.011	0.0485
5	6.36	**Sulfate**	BMB	3.586	13.698	12.1530
TOTAL:				33.09	198.48	81.52



Peak Integration Report

Sample Name:	**L2435780-06**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**25-Jun-2024 / 17:44**	*Run Time:*	**10.00**

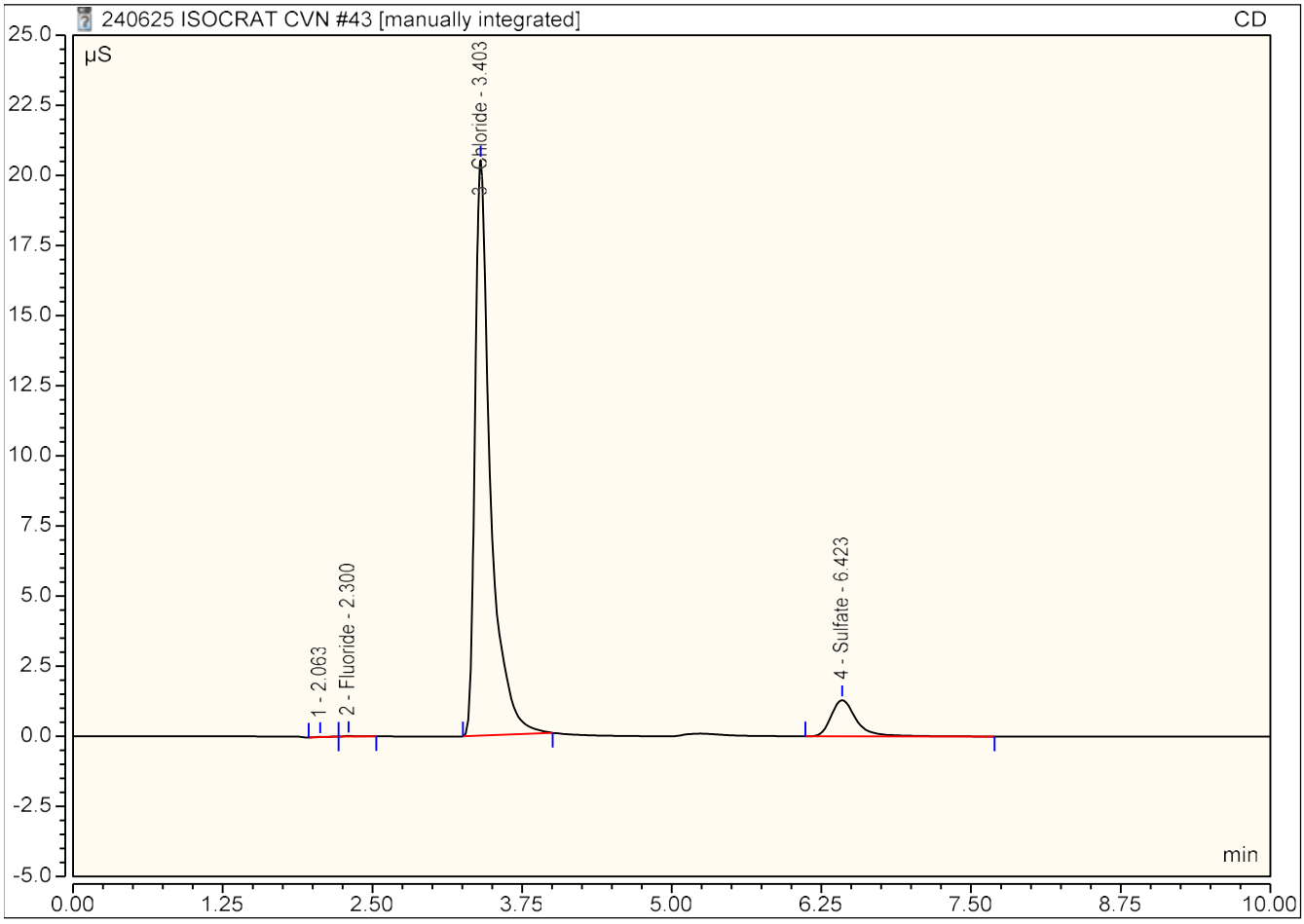
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.29	**Fluoride**	BMB	0.026	0.184	0.0935
3	3.39	**Chloride**	BMB*	29.491	185.041	69.2646
4	5.79	**Bromide**	BMB	0.002	0.011	0.0500
5	6.36	**Sulfate**	BMB	3.584	13.726	12.1459
TOTAL:				33.10	198.96	81.55



Peak Integration Report

Sample Name:	**XL2435780-06; 10X**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**10.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**25-Jun-2024 / 17:56**	*Run Time:*	**10.00**

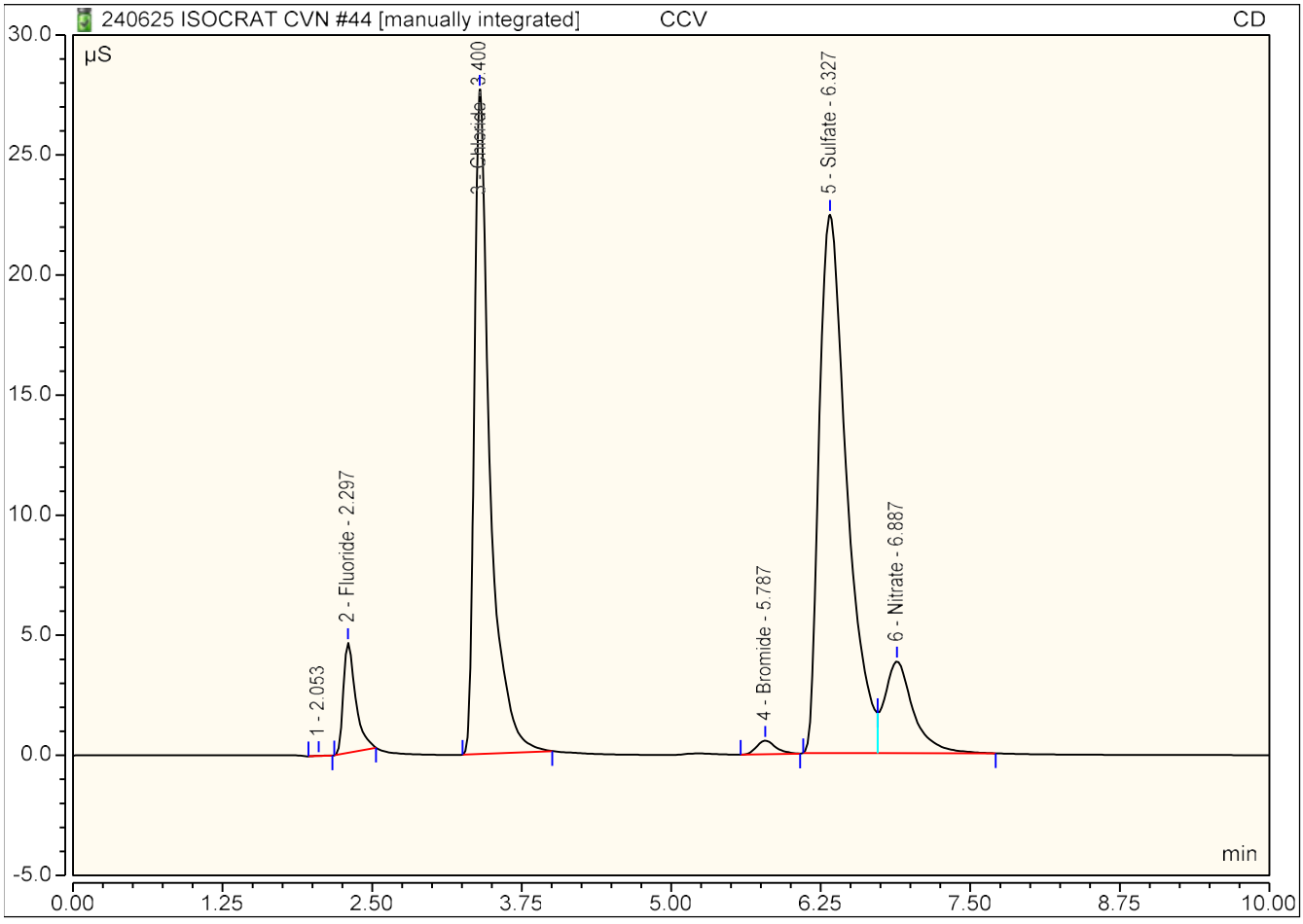
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.30	**Fluoride**	BMB	0.003	0.018	0.5311
3	3.40	**Chloride**	BMB*	3.069	20.513	74.0097
4	6.42	**Sulfate**	BMB	0.319	1.291	12.9178
TOTAL:				3.39	21.82	87.46



Peak Integration Report

Sample Name:	**CCV**	*Inj. Vol.:*	**25.00**
Injection Type:	**Check Standard**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**25-Jun-2024 / 18:08**	*Run Time:*	**10.00**

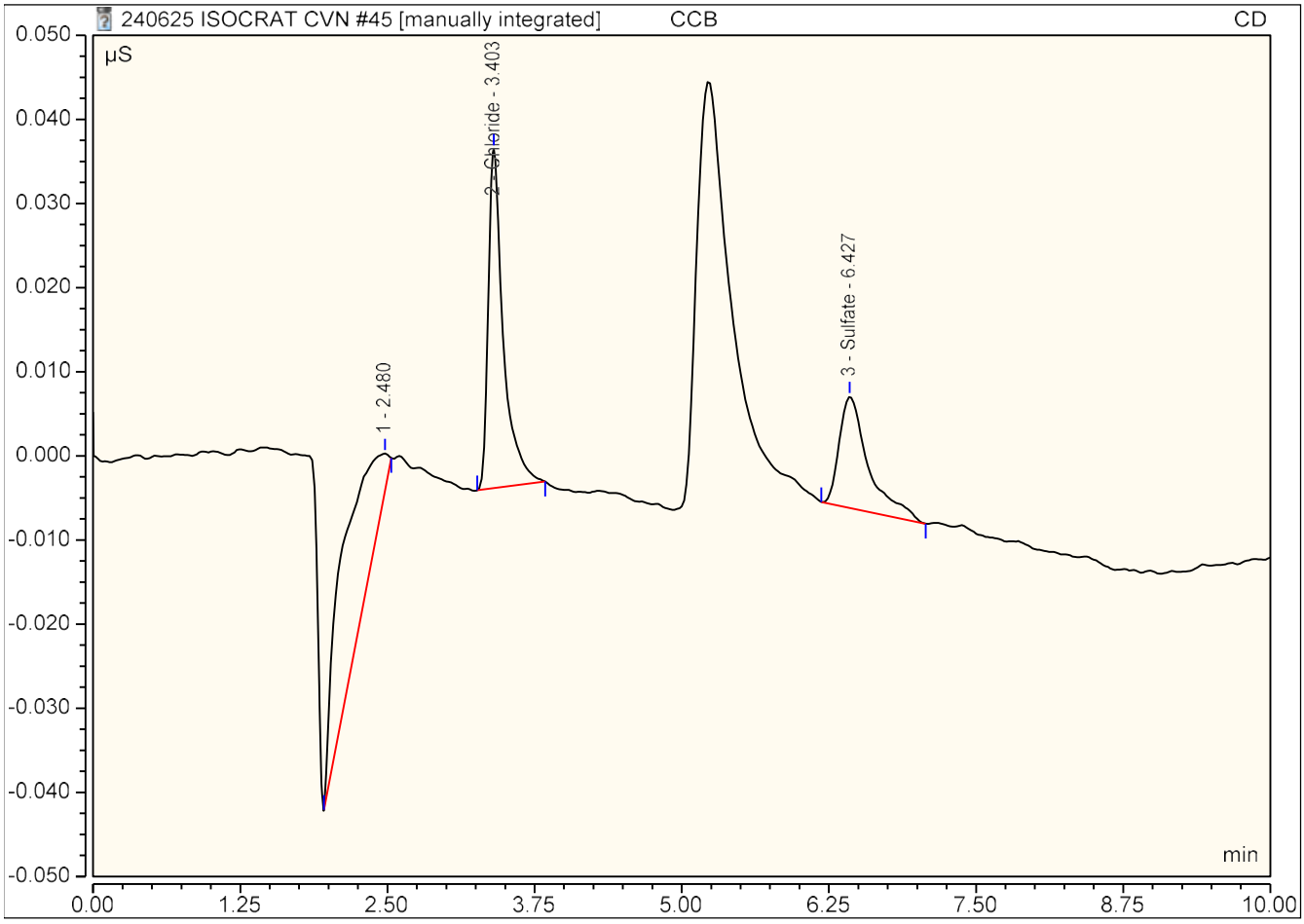
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.30	**Fluoride**	BMB	0.543	4.580	1.0160
3	3.40	**Chloride**	BMB*	4.177	27.674	9.9935
4	5.79	**Bromide**	BMB	0.105	0.571	1.0190
5	6.33	**Sulfate**	BM *	6.005	22.424	20.1915
6	6.89	**Nitrate**	MB*	1.067	3.827	0.9120
TOTAL:				11.90	59.08	33.13



Peak Integration Report

Sample Name:	**CCB**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**25-Jun-2024 / 18:20**	*Run Time:*	**10.00**

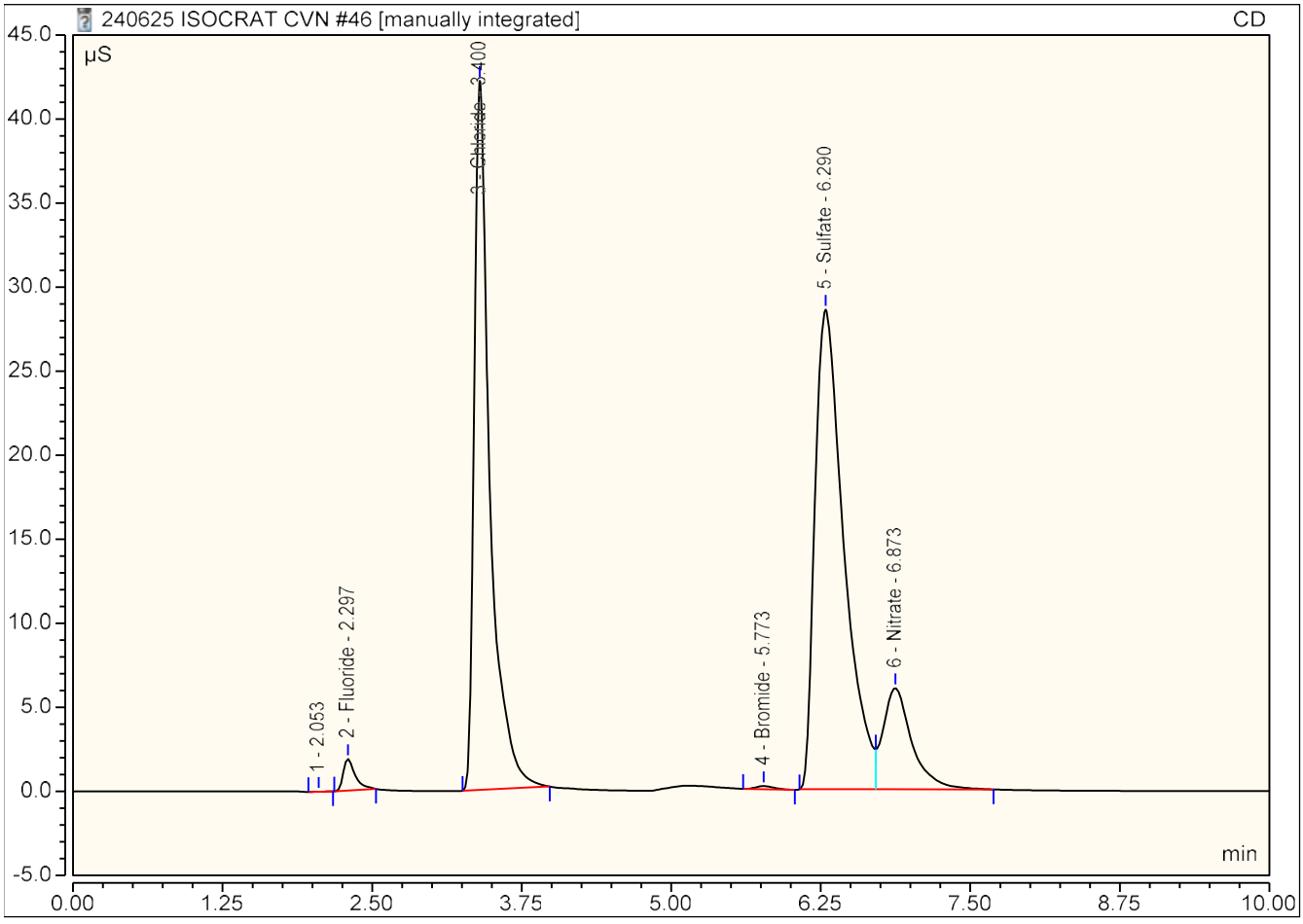
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	3.40	**Chloride**	BMB*	0.006	0.040	0.2282
3	6.43	**Sulfate**	BMB	0.004	0.013	0.2457
TOTAL:				0.01	0.05	0.47



Peak Integration Report

Sample Name:	**L2434679-11 MS**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**25-Jun-2024 / 18:32**	*Run Time:*	**10.00**

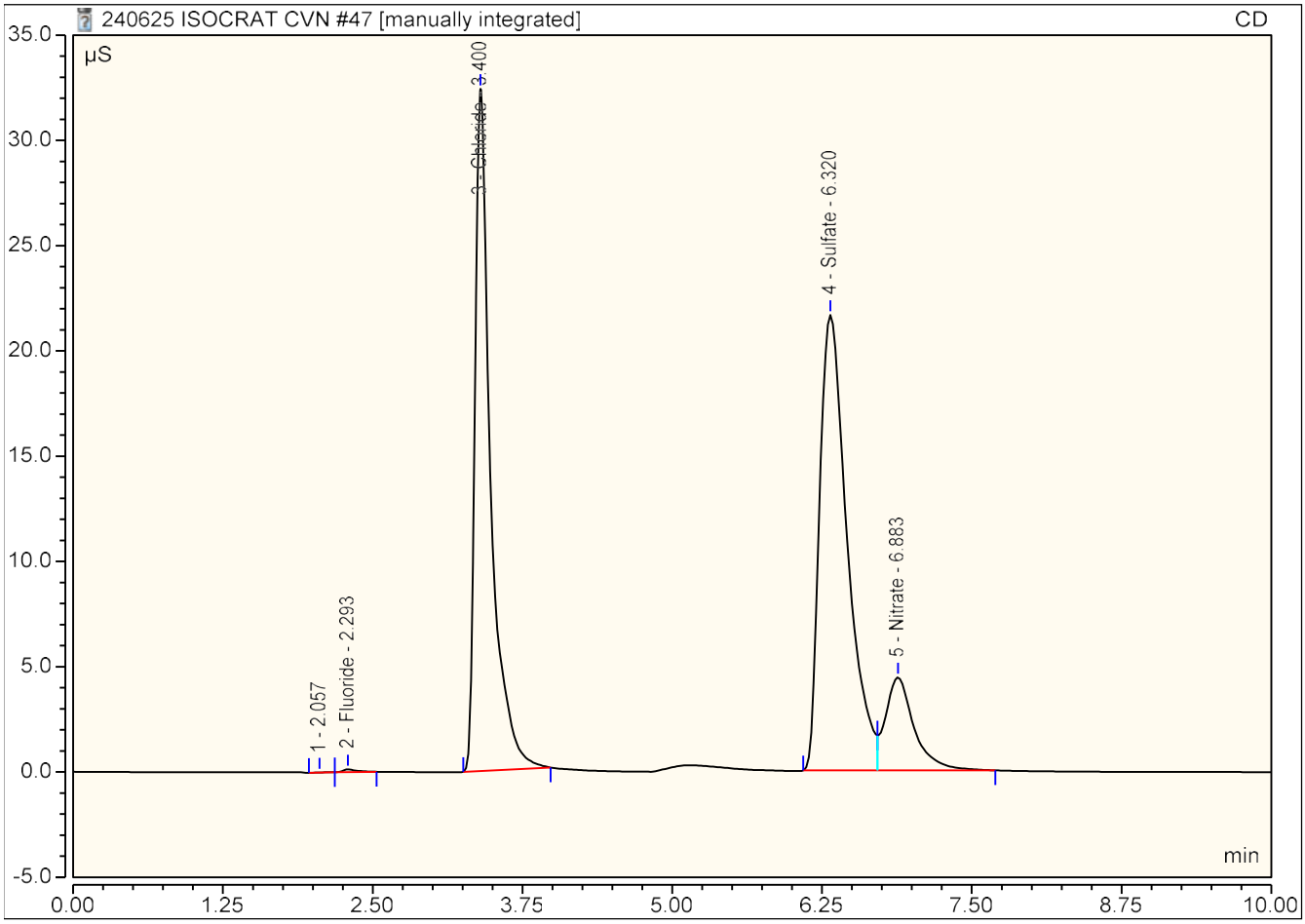
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.30	**Fluoride**	BMB	0.218	1.890	0.4356
3	3.40	**Chloride**	BMB*	6.375	42.182	15.1406
4	5.77	**Bromide**	BMB	0.034	0.193	0.3501
5	6.29	**Sulfate**	BM *	8.001	28.536	26.8267
6	6.87	**Nitrate**	MB*	1.686	6.028	1.4255
TOTAL:				16.31	78.83	44.18



Peak Integration Report

Sample Name:	**L2434679-11 DUP**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**25-Jun-2024 / 18:44**	*Run Time:*	**10.00**

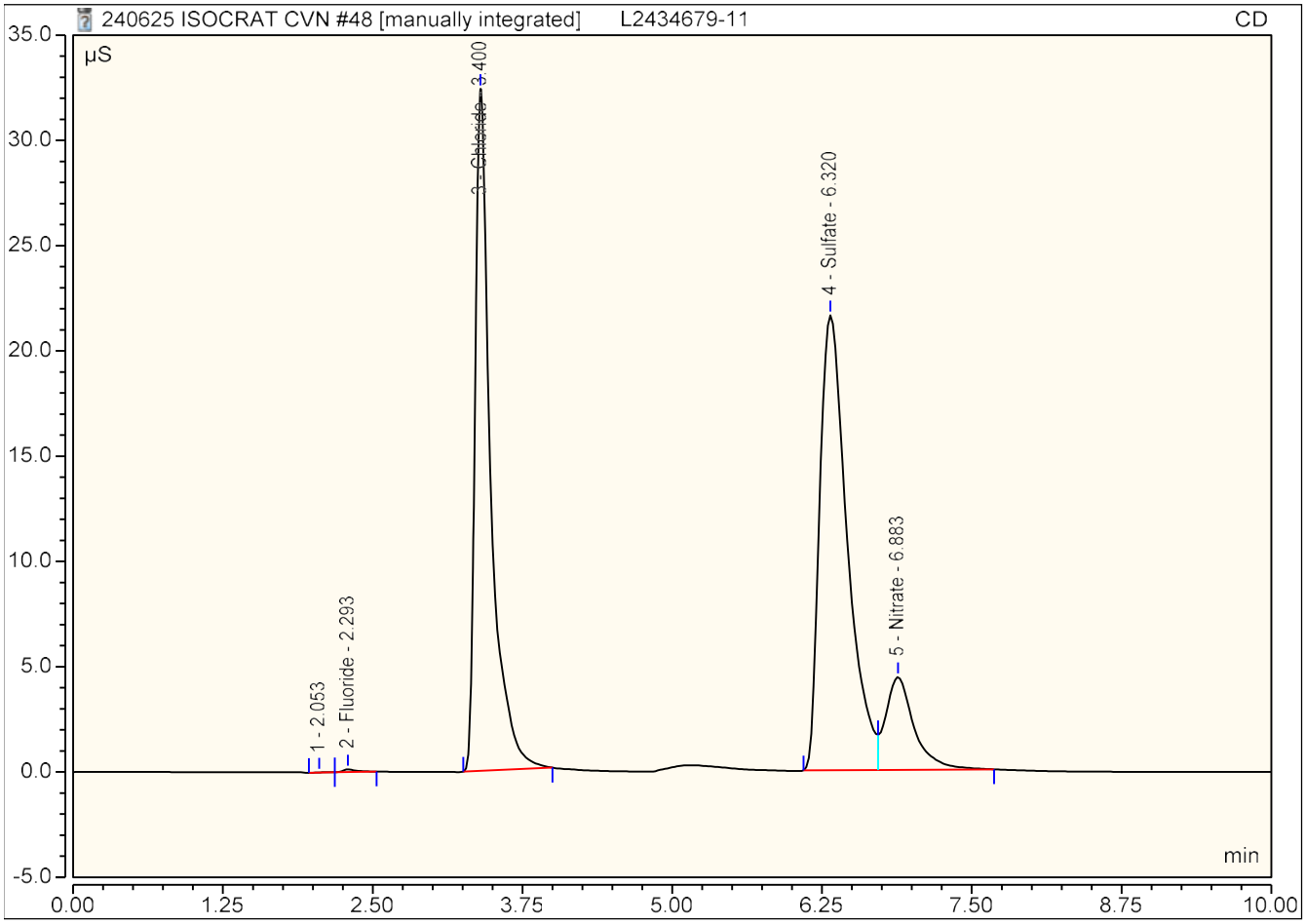
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.29	**Fluoride**	BMB	0.017	0.134	0.0781
3	3.40	**Chloride**	BMB*	4.866	32.390	11.6074
4	6.32	**Sulfate**	BM *	5.774	21.631	19.4244
5	6.88	**Nitrate**	MB*	1.225	4.415	1.0433
TOTAL:				11.88	58.57	32.15



Peak Integration Report

Sample Name:	**L2434679-11**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**25-Jun-2024 / 18:56**	*Run Time:*	**10.00**

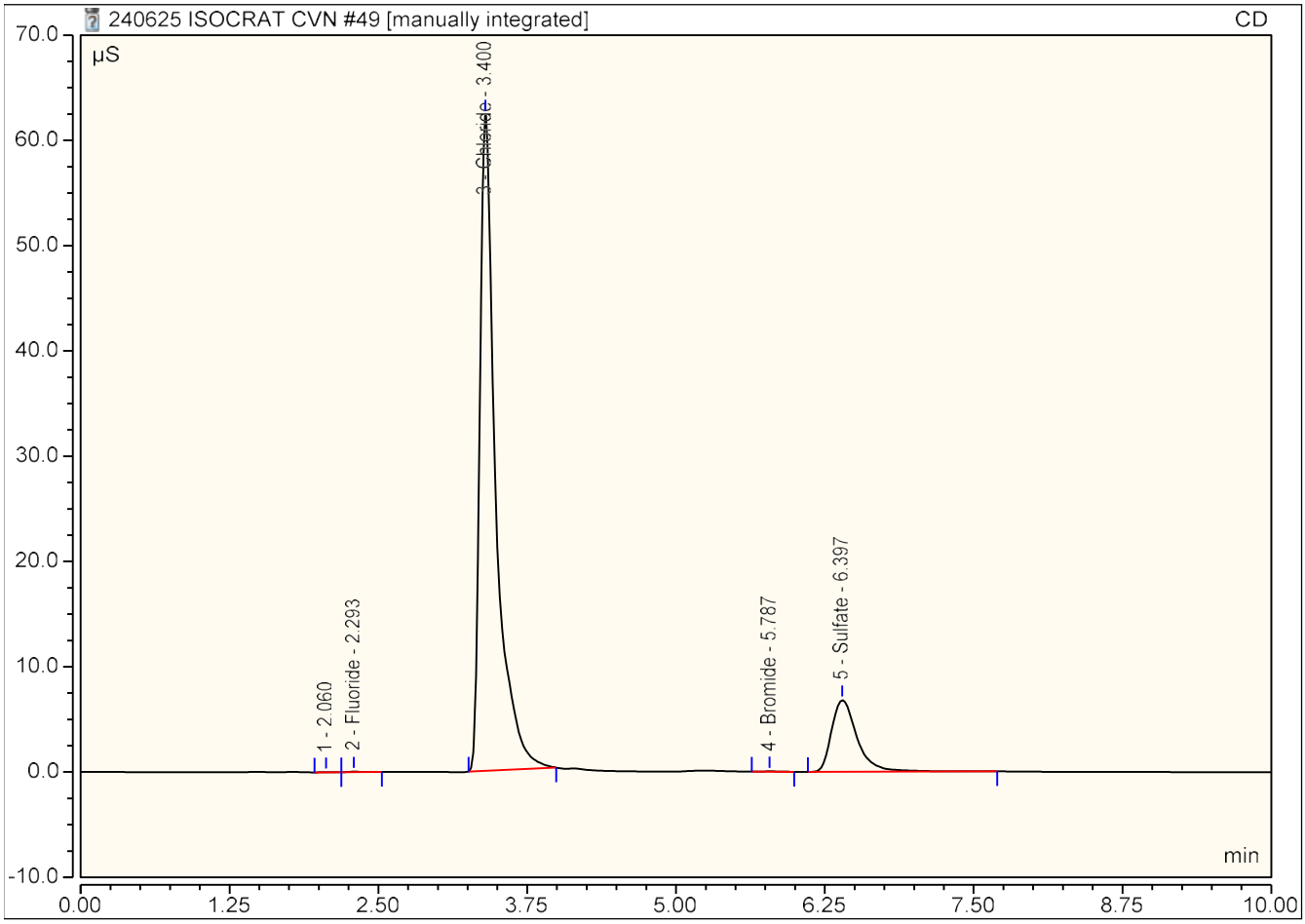
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.29	**Fluoride**	BMB	0.017	0.131	0.0775
3	3.40	**Chloride**	BMB*	4.871	32.390	11.6194
4	6.32	**Sulfate**	BM *	5.768	21.600	19.4041
5	6.88	**Nitrate**	MB*	1.216	4.402	1.0356
TOTAL:				11.87	58.52	32.14



Peak Integration Report

Sample Name:	**L2435599-01 EFF CL; 50X**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**50.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**25-Jun-2024 / 19:08**	*Run Time:*	**10.00**

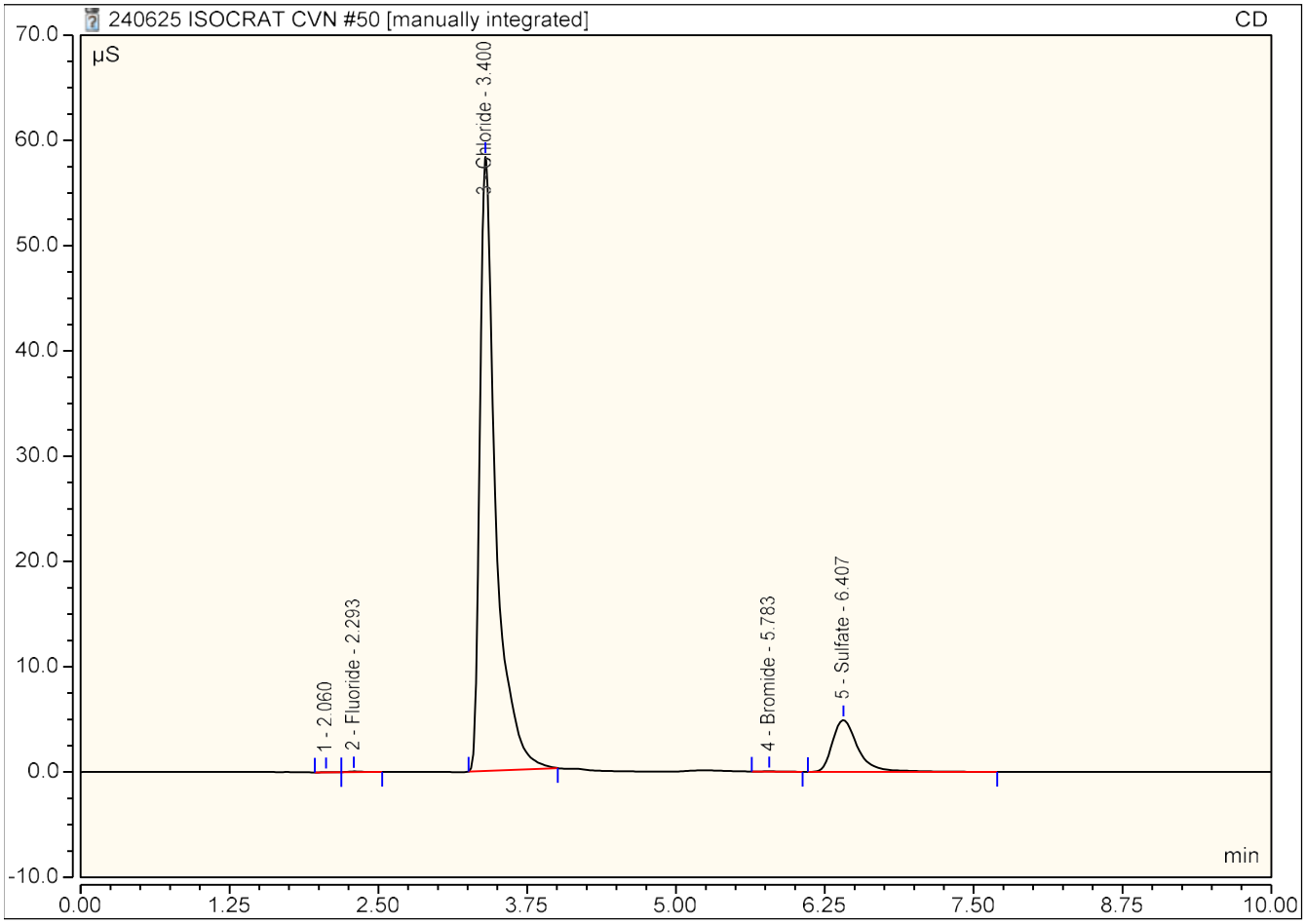
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.29	**Fluoride**	BMB	0.005	0.040	2.8544
3	3.40	**Chloride**	BMB*	9.619	62.355	1136.8171
4	5.79	**Bromide**	BMB	0.005	0.031	4.1979
5	6.40	**Sulfate**	BMB	1.692	6.800	292.8977
TOTAL:				11.32	69.23	1436.77



Peak Integration Report

Sample Name:	**L2435599-02 INF; 50X**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**50.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**25-Jun-2024 / 19:20**	*Run Time:*	**10.00**

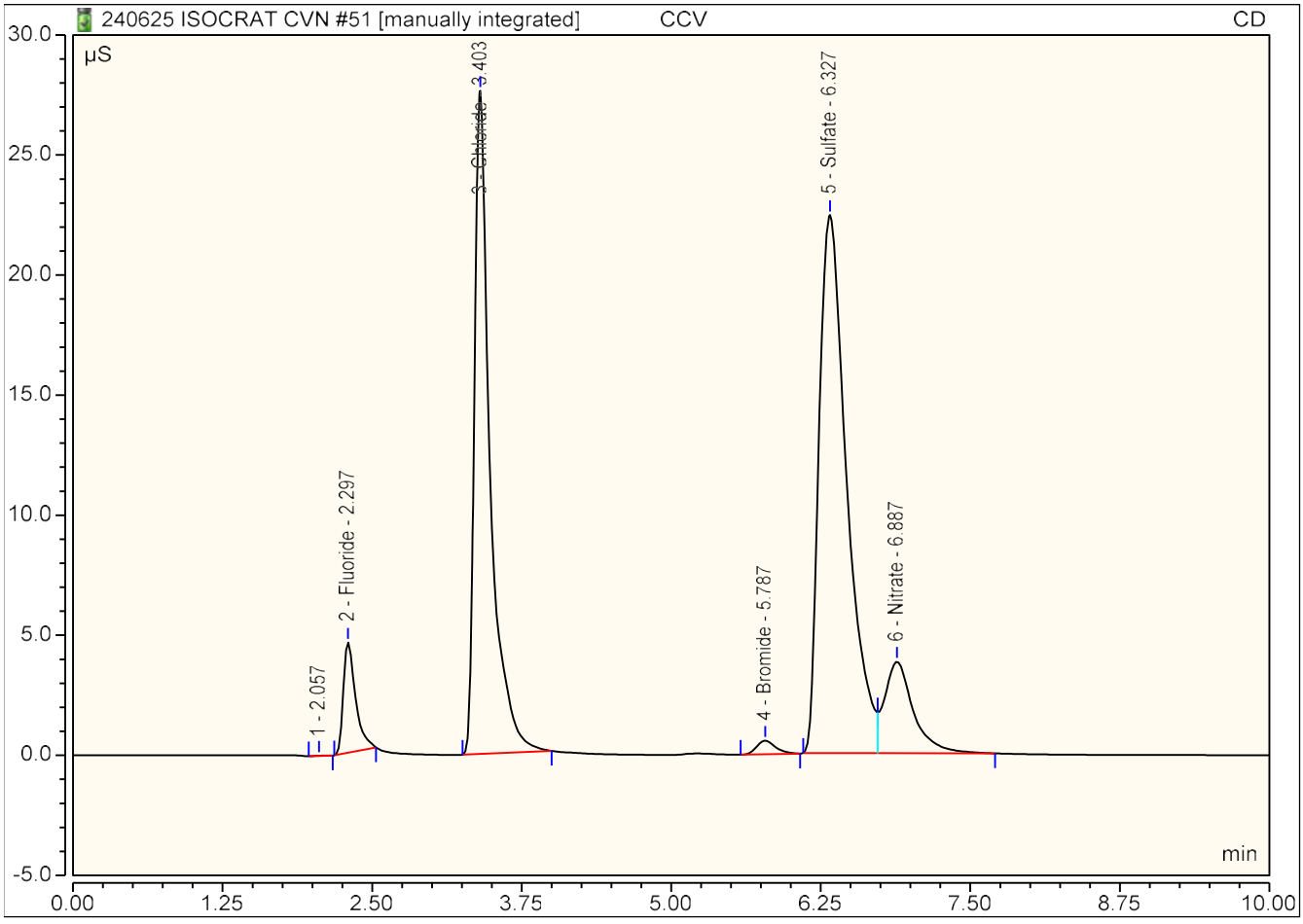
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.29	**Fluoride**	BMB	0.009	0.065	3.1418
3	3.40	**Chloride**	BMB*	9.011	58.333	1065.6520
4	5.78	**Bromide**	BMB	0.004	0.024	3.6395
5	6.41	**Sulfate**	BMB	1.220	4.907	214.4868
TOTAL:				10.24	63.33	1286.92



Peak Integration Report

Sample Name:	**CCV**	*Inj. Vol.:*	**25.00**
Injection Type:	**Check Standard**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**25-Jun-2024 / 19:32**	*Run Time:*	**10.00**

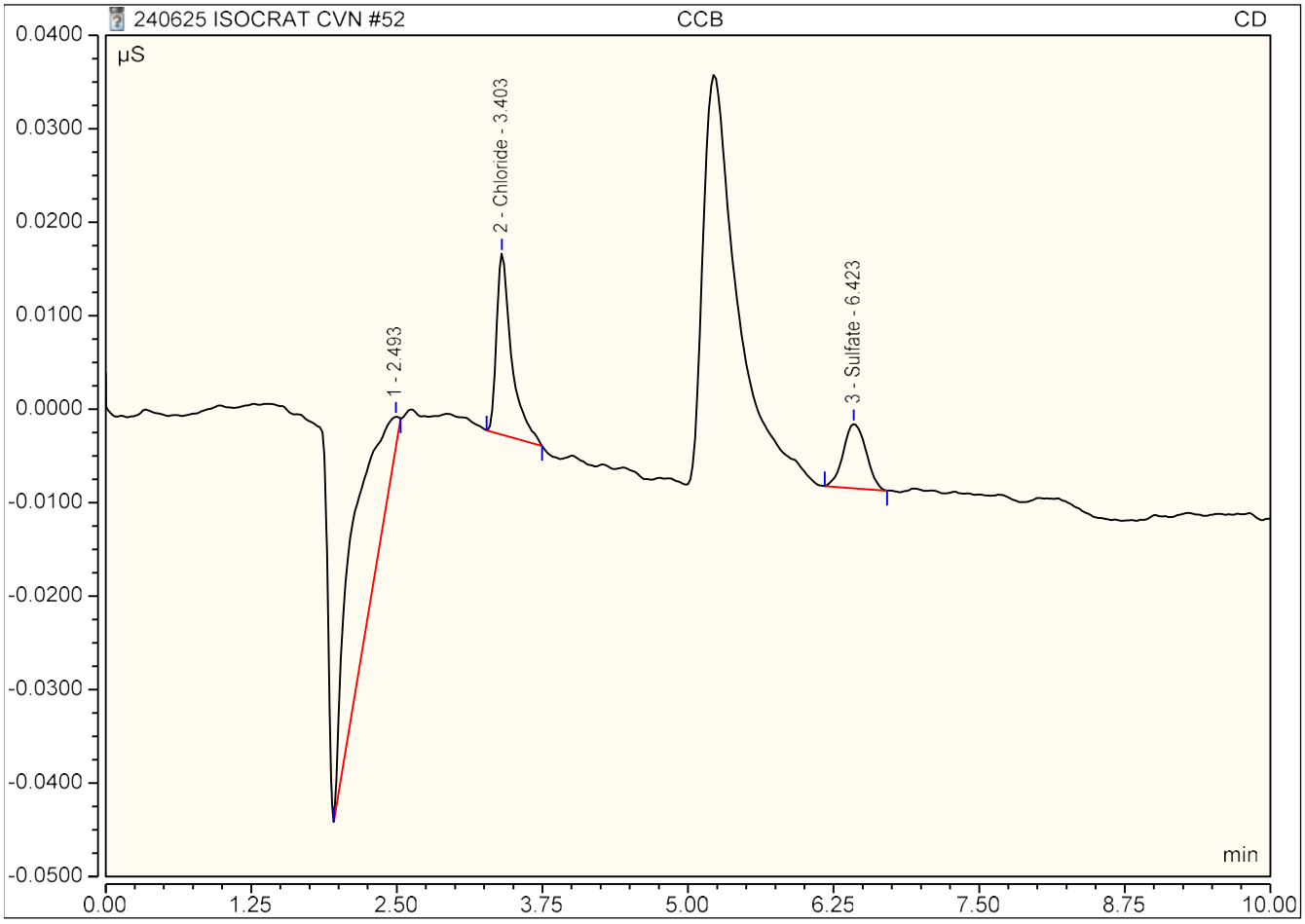
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.30	**Fluoride**	BMB	0.543	4.591	1.0151
3	3.40	**Chloride**	BMB*	4.177	27.620	9.9931
4	5.79	**Bromide**	BMB	0.105	0.568	1.0140
5	6.33	**Sulfate**	BM *	6.002	22.400	20.1829
6	6.89	**Nitrate**	MB*	1.065	3.811	0.9106
TOTAL:				11.89	58.99	33.12



Peak Integration Report

Sample Name:	**CCB**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**25-Jun-2024 / 19:44**	*Run Time:*	**10.00**

No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	3.40	**Chloride**	BMB	0.003	0.019	0.2210
3	6.42	**Sulfate**	BMB	0.002	0.007	0.2383
TOTAL:				0.00	0.03	0.46



Anion Summary Report

No.	Name	Dilution	Amount CD Fluoride	Amount CD Chloride	Amount CD Nitrate	Amount CD Sulfate	Amount CD Bromide
1	BLANK	1.0	n.a.	0.2207	n.a.	0.2430	n.a.
2	STD 0.5	1.0	0.0627	0.4051	0.0520	0.5886	0.0477
3	STD 1.0	1.0	0.0765	0.5901	0.0654	0.9801	0.0697
4	STD 2.0	1.0	0.1819	1.9641	0.1814	3.8369	0.1902
5	STD 3.0	1.0	0.4532	4.9324	0.4668	9.9697	0.4562
6	STD 4.0	1.0	1.9929	19.7530	2.0094	40.1924	2.0111
7	STD 5.0	1.0	5.0078	50.1053	5.2913	99.9323	4.6573
8	RINSE	1.0	0.0673	0.2459	n.a.	0.2368	n.a.
9	CCV	1.0	1.0097	9.7696	0.9517	19.4736	1.0618
10	CCB	1.0	n.a.	0.2240	n.a.	0.2409	n.a.
11	XICV FAIL BR	1.0	0.8119	8.1298	0.7687	7.8251	0.8955
12	ICV	1.0	0.8057	8.1278	0.7685	7.8254	0.8668
13	ICB	1.0	n.a.	0.2273	n.a.	0.2454	n.a.
14	BLK	1.0	n.a.	0.2335	n.a.	0.2501	n.a.
15	LCS	1.0	0.8135	8.1560	0.7669	7.8696	0.8705
16	L2434679-01	1.0	0.0621	10.8695	0.0903	5.2817	0.0401
17	L2434679-02	1.0	0.1011	21.3445	n.a.	30.6310	0.0426
18	L2434679-03	1.0	0.0890	21.1561	n.a.	21.0455	0.0546
19	L2434679-04	1.0	0.1106	20.4017	n.a.	16.0424	0.0928
20	XL2434679-06; 10X	10.0	0.4840	22.5073	0.5723	22.5406	n.a.
21	CCV	1.0	1.0010	9.9690	0.9224	20.1077	1.0305
22	CCB	1.0	n.a.	0.2289	n.a.	0.2430	n.a.
23	L2434679-05	1.0	0.0737	14.7304	0.9390	16.9981	0.0406
24	L2434679-06	1.0	0.0832	20.5375	0.2833	21.4789	0.0434
25	L2434679-07	1.0	0.0641	21.5641	1.4805	27.3774	0.0454
26	L2434679-08	1.0	0.0773	11.6742	1.0535	19.5553	0.0377
27	L2434679-09	1.0	0.1308	21.5038	n.a.	23.9248	0.0453
28	L2434679-10	1.0	0.0552	10.9092	4.9158	20.1420	0.0647
29	XL2434679-11	1.0	0.0778	11.6088	1.0433	19.4170	n.a.
30	L2434679-14	1.0	0.1087	21.5988	0.6346	29.0345	0.0433
31	L2434679-01 MS	1.0	0.4157	14.5147	0.4796	13.3236	0.3873
32	L2434679-01 DUP	1.0	0.0624	10.9238	0.0904	5.3252	0.0392
33	CCV	1.0	1.0064	9.9732	0.9206	20.1487	1.0108
34	CCB	1.0	n.a.	0.2281	n.a.	0.2440	n.a.
35	L2435780-01	1.0	0.0979	69.2633	0.7399	15.3456	0.0532
36	L2435780-02	1.0	0.0875	68.4475	n.a.	12.5965	0.0494
37	L2435780-03	1.0	0.0886	68.9978	n.a.	11.9794	0.0499
38	L2435780-04	1.0	0.0862	69.3361	n.a.	12.1022	0.0493
39	L2435780-05	1.0	0.0906	68.9669	n.a.	12.6870	0.0509
40	L2435780-06 MS	1.0	0.4766	70.1120	0.4745	19.7604	0.4036
41	L2435780-06 DUP	1.0	0.0938	69.2243	n.a.	12.1530	0.0485
42	L2435780-06	1.0	0.0935	69.2646	n.a.	12.1459	0.0500

43	XL2435780-06; 10X	10.0	0.5311	74.0097	n.a.	12.9178	n.a.
44	CCV	1.0	1.0160	9.9935	0.9120	20.1915	1.0190
45	CCB	1.0	n.a.	0.2282	n.a.	0.2457	n.a.
46	L2434679-11 MS	1.0	0.4356	15.1406	1.4255	26.8267	0.3501
47	L2434679-11 DUP	1.0	0.0781	11.6074	1.0433	19.4244	n.a.
48	L2434679-11	1.0	0.0775	11.6194	1.0356	19.4041	n.a.
49	L2435599-01 EFF CL; 50X	50.0	2.8544	1136.8171	n.a.	292.8977	4.1979
50	L2435599-02 INF; 50X	50.0	3.1418	1065.6520	n.a.	214.4868	3.6395
51	CCV	1.0	1.0151	9.9931	0.9106	20.1829	1.0140
52	CCB	1.0	n.a.	0.2210	n.a.	0.2383	n.a.
	Sum:	168.000	25.5504		31.2892	1268.1574	25.1205
	Average:	3.231	0.5807		1.0430	24.3876	0.6611
	Rel.Std.Dev:	297.303 %	1.6780		1.1422	2.0252	1.7287

Inject Time	Comment
20/Jun/2024 19:16	AU
20/Jun/2024 19:29	LOT#240619-0.5
20/Jun/2024 19:41	LOT#240619-1.0
20/Jun/2024 19:53	LOT#240619-2.0
20/Jun/2024 20:05	LOT#240619-3.0
20/Jun/2024 20:17	LOT#240619-4.0
20/Jun/2024 20:29	LOT#240519-5.0
25/Jun/2024 10:36	WG1939114-65-69
25/Jun/2024 10:48	LOT#240622-C
25/Jun/2024 11:00	CVN
25/Jun/2024 11:13	LOT#240622-I
25/Jun/2024 11:41	LOT#240622-I
25/Jun/2024 11:53	CVN
25/Jun/2024 12:05	CVN
25/Jun/2024 12:17	LOT#240622-I
25/Jun/2024 12:29	CVN
25/Jun/2024 12:42	CVN
25/Jun/2024 12:54	CVN
25/Jun/2024 13:06	CVN
25/Jun/2024 13:18	CVN
25/Jun/2024 13:30	LOT#240622-C
25/Jun/2024 13:42	CVN
25/Jun/2024 13:54	CVN
25/Jun/2024 14:06	CVN
25/Jun/2024 14:18	CVN
25/Jun/2024 14:30	CVN
25/Jun/2024 14:42	CVN
25/Jun/2024 14:54	CVN
25/Jun/2024 15:07	CVN
25/Jun/2024 15:19	CVN/JRO
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25/Jun/2024 17:19	CVN
25/Jun/2024 17:32	CVN
25/Jun/2024 17:44	CVN

25/Jun/2024 17:56	CVN
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25/Jun/2024 18:20	CVN/ MRW
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25/Jun/2024 19:20	CVN
25/Jun/2024 19:32	LOT#240622-C
25/Jun/2024 19:44	CVN
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Quality Control

Form 5a
Matrix Spike

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Client Sample ID	: MW-3A	**Matrix**	: WATER
Lab Sample ID	: L2434679-01		
Matrix Spike	: WG1939114-3	**MS Analysis Date**	: 06/25/24 15:31
Matrix Spike Dup	:	**MSD Analysis Date**	:

		Matrix Spike Sample				Matrix Spike Duplicate					
Parameter	Sample Conc. (mg/l)	Spike Added (mg/l)	Spike Conc. (mg/l)	%R		Spike Added (mg/l)	Spike Conc. (mg/l)	%R	RPD	Recovery Limits	RPD Limit
Bromide	0.040J	0.4	0.387	97						90-110	20
Chloride	10.9	4	14.5	91						90-110	18
Fluoride	0.062	0.4	0.416	88	Q					90-110	15
Sulfate	5.28	8	13.3	100						90-110	20

Form 5a
Matrix Spike

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Client Sample ID	: DUP	**Matrix**	: WATER
Lab Sample ID	: L2434679-11		
Matrix Spike	: WG1939169-3	**MS Analysis Date**	: 06/25/24 18:32
Matrix Spike Dup	:	**MSD Analysis Date**	:

		Matrix Spike Sample				Matrix Spike Duplicate					
Parameter	Sample Conc. (mg/l)	Spike Added (mg/l)	Spike Conc. (mg/l)	%R		Spike Added (mg/l)	Spike Conc. (mg/l)	%R	RPD	Recovery Limits	RPD Limit
Bromide	ND	0.4	0.350	88	Q					90-110	20
Chloride	11.6	4	15.1	88	Q					90-110	18
Fluoride	0.077	0.4	0.436	90						90-110	15
Sulfate	19.4	8	26.8	92						90-110	20

Form 6
Lab Duplicates

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Client Sample ID	: MW-3A	**Matrix**	: WATER
Lab Sample ID	: L2434679-01	**Analysis Date**	: 06/25/24 12:29
Dup Sample ID	: WG1939114-4	**DUP Analysis Date**	: 06/25/24 15:43

Parameter	Sample Concentration (mg/l)	Duplicate Concentration (mg/l)	RPD	RPD Limit
Bromide	0.040J	0.039J	NC	20
Chloride	10.9	10.9	0	18
Fluoride	0.062	0.062	0	15
Sulfate	5.28	5.32	1	20

Form 6
Lab Duplicates

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Client Sample ID	: DUP	**Matrix**	: WATER
Lab Sample ID	: L2434679-11	**Analysis Date**	: 06/25/24 18:56
Dup Sample ID	: WG1939169-4	**DUP Analysis Date**	: 06/25/24 18:44

Parameter	Sample Concentration (mg/l)	Duplicate Concentration (mg/l)	RPD	RPD Limit
Bromide	ND	ND	NC	20
Chloride	11.6	11.6	0	18
Fluoride	0.077	0.078	1	15
Sulfate	19.4	19.4	0	20

Form 7
Laboratory Control Sample

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Client Sample ID	: NA	**Matrix**	: WATER
Lab Sample ID	: WG1939114-2	**LCS Analysis Date**	: 06/25/24 12:17
Dup Sample ID	:	**LCSD Analysis Date**	:

	Laboratory Control Sample			Laboratory Control Duplicate					
Parameter	**True (mg/l)**	**Found (mg/l)**	**%R**	**True (mg/l)**	**Found (mg/l)**	**%R**	**RPD**	**Recovery Limits**	**RPD Limit**
Bromide	0.800	0.870	109.					90-110	20
Chloride	8.00	8.16	102.					90-110	18
Fluoride	0.800	0.814	102.					90-110	15
Sulfate	8.00	7.87	98.					90-110	20

Form 7
Laboratory Control Sample

Client	: Alpha Geoscience	**Lab Number**	: L2434679
Project Name	: RANCO MINE	**Project Number**	: 12123
Client Sample ID	: NA	**Matrix**	: WATER
Lab Sample ID	: WG1939169-2	**LCS Analysis Date**	: 06/25/24 12:17
Dup Sample ID	:	**LCSD Analysis Date**	:

	Laboratory Control Sample			Laboratory Control Duplicate					
Parameter	**True (mg/l)**	**Found (mg/l)**	**%R**	**True (mg/l)**	**Found (mg/l)**	**%R**	**RPD**	**Recovery Limits**	**RPD Limit**
Bromide	0.800	0.870	109.					90-110	20
Chloride	8.00	8.16	102.					90-110	18
Fluoride	0.800	0.814	102.					90-110	15
Sulfate	8.00	7.87	98.					90-110	20

Date Created: 11/11/21
Created By: Jason Hebert
File: PM11467-1
Page: 1

WETCHEM (WATER)

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Method	Holding Time	Container/Sample Preservation
Bromide	24959-67-9	0.05	0.0132	mg/l	90-110		90-110	20	20	300.0	28 days	1 - Plastic 250ml unpreserved
Chloride	16887-00-6	0.5	0.0839	mg/l	90-110		64-148	18	18	9056	28 days	1 - Plastic 250ml unpreserved
Chloride	16887-00-6	0.5	0.0839	mg/l	90-110		90-110	18	18	300.0	28 days	1 - Plastic 250ml unpreserved
Fluoride	16984-48-8	0.05	0.037	mg/l	90-110		81-124	15	15	9056	28 days	1 - Plastic 500ml unpreserved
Fluoride	16984-48-8	0.05	0.037	mg/l	90-110		90-110	15	15	300.0	28 days	1 - Plastic 500ml unpreserved
Nitrogen, Nitrate	14797-55-8	0.05	0.0128	mg/l	90-110		90-110	15	15	300.0	48 hours	1 - Plastic 250ml unpreserved
Nitrogen, Nitrate	14797-55-8	0.05	0.0128	mg/l	90-110		80-120	15	15	9056	48 hours	1 - Plastic 250ml unpreserved
Sulfate	14808-79-8	1	0.454	mg/l	90-110		72-124	20	20	9056	28 days	1 - Plastic 500ml unpreserved
Sulfate	14808-79-8	1	0.454	mg/l	90-110		90-110	20	20	300.0	28 days	1 - Plastic 500ml unpreserved

Please Note that the RL information provided in this table is calculated using a 100% Solids factor. (Soil/Solids only)
Please Note that the information provided in this table is subject to change at anytime at the discretion of Alpha Analytical, Inc.

Calculations of Anions by Ion Chromatography

Aqueous samples:

The Dionex calculates the area of the peaks produced by the instrument, compares them to the peak area of the calibration standard stored in its memory, and calculates result in mg/L.

If the sample was manually diluted prior to analysis, the calculated mean must be manually multiplied by the dilution factor. The Reported Detection Limit is also multiplied by the same dilution factor.

$$\text{Result, mg/L} = \frac{\text{area - y-intercept}}{\text{slope}} \times \text{Dilution Factor}$$

Subcontracted Data

315 Fullerton Avenue * Newburgh, NY 12550 * TEL. (845) 562-0890

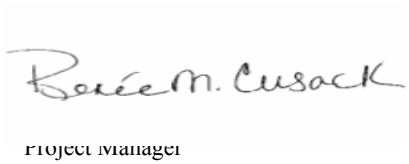
July 5, 2024

Alpha Reporting
NB-Alpha Analytical
8 Walkup Drive
Westborough, MA 01581

Project Location:
Project Number: L2434679
Laboratory Work Order Number: 24F3300

Enclosed are results of analyses for samples received by the laboratory on June 25, 2024. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Project Manager

315 Fullerton Avenue * Newburgh, NY 12550 * TEL. (845) 562-0890

NB-Alpha Analytical
8 Walkup Drive
Westborough, MA 01581
ATTN: Alpha Reporting

REPORT DATE: 7/5/2024

ANALYTICAL SUMMARY

The results of analyses performed on the following samples submitted to Pace Analytical Services, LLC - Newburgh are found in this report.

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
MW-3A	24F3300-01	Water		SM 4500 S2-D-2011	
MW-6A	24F3300-02	Water		SM 4500 S2-D-2011	
MW-6B	24F3300-03	Water		SM 4500 S2-D-2011	
MW-6C	24F3300-04	Water		SM 4500 S2-D-2011	
MW-7A	24F3300-05	Water		SM 4500 S2-D-2011	
MW-7B	24F3300-06	Water		SM 4500 S2-D-2011	
MW-7C	24F3300-07	Water		SM 4500 S2-D-2011	
MW-8A	24F3300-08	Water		SM 4500 S2-D-2011	
MW-8B	24F3300-09	Water		SM 4500 S2-D-2011	
MW-9B	24F3300-10	Water		SM 4500 S2-D-2011	
DUP	24F3300-11	Water		SM 4500 S2-D-2011	
MW-8B2	24F3300-12	Water		SM 4500 S2-D-2011	

315 Fullerton Avenue * Newburgh, NY 12550 * TEL. (845) 562-0890

CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

The samples were received to late to meet the holding time of the analysis.

SM 4500 S2-D-2011

Qualifications:

H-09

Sample received by laboratory with insufficient time remaining to perform analysis within the recommended holding time.

Analyte & Samples(s) Qualified:

Sulfide (as S)

24F3300-01[MW-3A], 24F3300-02[MW-6A], 24F3300-03[MW-6B], 24F3300-04[MW-6C], 24F3300-05[MW-7A], 24F3300-06[MW-7B], 24F3300-07[MW-7C], 24F3300-08[MW-8A], 24F3300-09[MW-8B], 24F3300-10[MW-9B], 24F3300-11[DUP], 24F3300-12[MW-8B2]

The results of analyses reported only relate to samples submitted to the Pace Analytical Services, LLC - Newburgh for testing.
I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

Renee M. Cusack

Renee Cusack
PM

315 Fullerton Avenue * Newburgh, NY 12550 * TEL. (845) 562-0890

Project Location: | Sample Description: | Work Order: 24F3300

Date Received: 6/25/2024

Field Sample #: MW-3A | Sampled: 6/19/2024 09:30

Sample ID: 24F3300-01

Sample Matrix: Water

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Sulfide (as S)	ND	0.10	0.10	mg/L	1	H-09	SM 4500 S2-D-2011	6/27/24	6/27/24 14:30	kjf

315 Fullerton Avenue * Newburgh, NY 12550 * TEL. (845) 562-0890

Project Location: | Sample Description: | Work Order: 24F3300

Date Received: 6/25/2024

Field Sample #: MW-6A | Sampled: 6/18/2024 16:35

Sample ID: 24F3300-02

Sample Matrix: Water

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Sulfide (as S)	ND	0.10	0.10	mg/L	1	H-09	SM 4500 S2-D-2011	6/27/24	6/27/24 14:30	kjf

315 Fullerton Avenue * Newburgh, NY 12550 * TEL. (845) 562-0890

Project Location: | Sample Description: | Work Order: 24F3300

Date Received: 6/25/2024

Field Sample #: MW-6B | Sampled: 6/18/2024 14:50

Sample ID: 24F3300-03

Sample Matrix: Water

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Sulfide (as S)	ND	0.10	0.10	mg/L	1	H-09	SM 4500 S2-D-2011	6/27/24	6/27/24 14:30	kjf

315 Fullerton Avenue * Newburgh, NY 12550 * TEL. (845) 562-0890

Project Location: | Sample Description: | Work Order: 24F3300

Date Received: 6/25/2024

Field Sample #: MW-6C | Sampled: 6/18/2024 14:49

Sample ID: 24F3300-04

Sample Matrix: Water

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Sulfide (as S)	ND	0.10	0.10	mg/L	1	H-09	SM 4500 S2-D-2011	6/27/24	6/27/24 14:30	kjf

315 Fullerton Avenue * Newburgh, NY 12550 * TEL. (845) 562-0890

Project Location: | Sample Description: | Work Order: 24F3300

Date Received: 6/25/2024

Field Sample #: MW-7A | Sampled: 6/18/2024 10:15

Sample ID: 24F3300-05

Sample Matrix: Water

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Sulfide (as S)	ND	0.10	0.10	mg/L	1	H-09	SM 4500 S2-D-2011	6/27/24	6/27/24 14:30	kjf

315 Fullerton Avenue * Newburgh, NY 12550 * TEL. (845) 562-0890

Project Location: | Sample Description: | Work Order: 24F3300

Date Received: 6/25/2024

Field Sample #: MW-7B | Sampled: 6/18/2024 12:05

Sample ID: 24F3300-06

Sample Matrix: Water

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Sulfide (as S)	ND	0.10	0.10	mg/L	1	H-09	SM 4500 S2-D-2011	6/27/24	6/27/24 14:30	kjf

315 Fullerton Avenue * Newburgh, NY 12550 * TEL. (845) 562-0890

Project Location: | Sample Description: | Work Order: 24F3300

Date Received: 6/25/2024

Field Sample #: MW-7C | Sampled: 6/18/2024 12:12

Sample ID: 24F3300-07

Sample Matrix: Water

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Sulfide (as S)	ND	0.10	0.10	mg/L	1	H-09	SM 4500 S2-D-2011	6/27/24	6/27/24 14:30	kjf

315 Fullerton Avenue * Newburgh, NY 12550 * TEL. (845) 562-0890

Project Location: | Sample Description: | Work Order: 24F3300

Date Received: 6/25/2024

Field Sample #: MW-8A | Sampled: 6/18/2024 16:47

Sample ID: 24F3300-08

Sample Matrix: Water

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Sulfide (as S)	ND	0.10	0.10	mg/L	1	H-09	SM 4500 S2-D-2011	6/27/24	6/27/24 14:30	kjf

315 Fullerton Avenue * Newburgh, NY 12550 * TEL. (845) 562-0890

Project Location: | Sample Description: | Work Order: 24F3300

Date Received: 6/25/2024

Field Sample #: MW-8B | Sampled: 6/18/2024 18:25

Sample ID: 24F3300-09

Sample Matrix: Water

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Sulfide (as S)	ND	0.10	0.10	mg/L	1	H-09	SM 4500 S2-D-2011	6/27/24	6/27/24 14:30	kjf

315 Fullerton Avenue * Newburgh, NY 12550 * TEL. (845) 562-0890

Project Location: | Sample Description: | Work Order: 24F3300

Date Received: 6/25/2024

Field Sample #: MW-9B | Sampled: 6/19/2024 11:00

Sample ID: 24F3300-10

Sample Matrix: Water

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Sulfide (as S)	ND	0.10	0.10	mg/L	1	H-09	SM 4500 S2-D-2011	6/27/24	6/27/24 14:30	kjf

315 Fullerton Avenue * Newburgh, NY 12550 * TEL. (845) 562-0890

Project Location: | Sample Description: | Work Order: 24F3300

Date Received: 6/25/2024

Field Sample #: DUP | Sampled: 6/18/2024 00:00

Sample ID: 24F3300-11

Sample Matrix: Water

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Sulfide (as S)	ND	0.10	0.10	mg/L	1	H-09	SM 4500 S2-D-2011	6/27/24	6/27/24 14:30	kjf

315 Fullerton Avenue * Newburgh, NY 12550 * TEL. (845) 562-0890

Project Location: | Sample Description: | Work Order: 24F3300

Date Received: 6/25/2024

Field Sample #: MW-8B2 | Sampled: 6/18/2024 18:07

Sample ID: 24F3300-12

Sample Matrix: Water

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Sulfide (as S)	ND	0.10	0.10	mg/L	1	H-09	SM 4500 S2-D-2011	6/27/24	6/27/24 14:30	kjf

Sample Extraction Data

Prep Method: NB No Prep **Analytical Method: SM 4500 S2-D-2011**

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
24F3300-01 [MW-3A]	B378978	5.00	5.00	06/27/24
24F3300-02 [MW-6A]	B378978	5.00	5.00	06/27/24
24F3300-03 [MW-6B]	B378978	5.00	5.00	06/27/24
24F3300-04 [MW-6C]	B378978	5.00	5.00	06/27/24
24F3300-05 [MW-7A]	B378978	5.00	5.00	06/27/24
24F3300-06 [MW-7B]	B378978	5.00	5.00	06/27/24
24F3300-07 [MW-7C]	B378978	5.00	5.00	06/27/24
24F3300-08 [MW-8A]	B378978	5.00	5.00	06/27/24
24F3300-09 [MW-8B]	B378978	5.00	5.00	06/27/24
24F3300-10 [MW-9B]	B378978	5.00	5.00	06/27/24
24F3300-11 [DUP]	B378978	5.00	5.00	06/27/24
24F3300-12 [MW-8B2]	B378978	5.00	5.00	06/27/24

QUALITY CONTROL

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B378978 - NB No Prep										
Blank (B378978-BLK1)				Prepared & Analyzed: 06/27/24						
Sulfide (as S)	ND	0.10	mg/L							
LCS (B378978-BS1)				Prepared & Analyzed: 06/27/24						
Sulfide (as S)	0.366	0.10	mg/L	0.424		86.2	48.3-130.2			
MRL Check (B378978-MRL1)				Prepared & Analyzed: 06/27/24						
Sulfide (as S)	ND	0.10	mg/L	0.100			0-200			
Matrix Spike (B378978-MS1)	**Source: 24F3300-01**			Prepared & Analyzed: 06/27/24						
Sulfide (as S)	0.570	0.10	mg/L	0.500	ND	114	57-143			
Matrix Spike Dup (B378978-MSD1)	**Source: 24F3300-01**			Prepared & Analyzed: 06/27/24						
Sulfide (as S)	0.601	0.10	mg/L	0.500	ND	120	57-143	5.29	20	

FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
ND	Not Detected
RL	Reporting Limit is at the level of quantitation (LOQ)
DL	Detection Limit is the lower limit of detection determined by the MDL study
MCL	Maximum Contaminant Level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
	No results have been blank subtracted unless specified in the case narrative section.
H-09	Sample received by laboratory with insufficient time remaining to perform analysis within the recommended holding time.

315 Fullerton Avenue * Newburgh, NY 12550 * TEL. (845) 562-0890

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications

No certified Analyses included in this Report

Pace Analytical Services, LCC operates under the following certifications and accreditations:

Code	Description	Number	Expires
NB-CT	Connecticut Department of Public Health	PH-0823	09/30/2024
NB-NJ	New Jersey DEP	NY015 NELAP	06/30/2024
NB-NY	New York State Department of Health	10142 NELAP	03/31/2025

Subcontract Chain of Custody

Envirotest / Pace Newburgh
315 Fullerton Avenue
Newburgh, NY 12550

Alpha Job Number
L2434679

Client Information

Client: Alpha Analytical Labs
Address: Eight Walkup Drive
Westborough, MA 01581-1019

Phone: 716-427-5223
Email: Candace.Fox@pacelabs.com

Project Information

Project Location: NY
Project Manager: Candace Fox

Turnaround & Deliverables Information

Due Date:
Deliverables:

Regulatory Requirements/Report Limits

State/Federal Program:
Regulatory Criteria: 24F3300-1

Project Specific Requirements and/or Report Requirements

Reference following Alpha Job Number on final report/deliverables: L2434679

Report to include Method Blank, LCS/LCSD:

Additional Comments: Invoices to: invoices@pacelabs.coupahost.com Reports to: west.subreports@pacelabs.com ;ASP-B needed

Lab ID	Client ID	Collection Date/Time	Sample Matrix	Analysis	Batch QC
	MW-3A	06-19-24 09:30	WATER	Sulfide	
	MW-6A	06-18-24 16:35	WATER	Sulfide	
	MW-6B	06-18-24 14:50	WATER	Sulfide	
	MW-6C	06-18-24 14:49	WATER	Sulfide	
	MW-7A	06-18-24 10:15	WATER	Sulfide	
	MW-7B	06-18-24 12:05	WATER	Sulfide	
	MW-7C	06-18-24 12:12	WATER	Sulfide	
	MW-8A	06-18-24 16:47	WATER	Sulfide	
	MW-8B	06-18-24 18:25	WATER	Sulfide	

24F3300

Relinquished By:	Date/Time:	Received By:	Date/Time:
	6/24/24		6/24 1300
	6/24 2220		6/24/24 2025
Don D Pace 6/25/24 1000	6/24/24	Don D Pace 6/25/24	645
		6/25/24 1000	

TEMP=2.3
ON ICE

Form No: AL_subcoc

Subcontract Chain of Custody

Envirotest / Pace Newburgh
315 Fullerton Avenue
Newburgh, NY 12550

Alpha Job Number
L2434679

Client Information	Project Information	Regulatory Requirements/Report Limits
Client: Alpha Analytical Labs Address: Eight Walkup Drive Westborough, MA 01581-1019 Phone: 716-427-5223 Email: Candace.Fox@pacelabs.com	Project Location: NY Project Manager: Candace Fox **Turnaround & Deliverables Information** Due Date: Deliverables:	State/Federal Program: Regulatory Criteria: 24F3300-2

Project Specific Requirements and/or Report Requirements

Reference following Alpha Job Number on final report/deliverables: L2434679

Report to include Method Blank, LCS/LCSD:

Additional Comments: Send all results/reports to subreports@alphalab.com ;ASP-B needed

Lab ID	Client ID	Collection Date/Time	Sample Matrix	Analysis	Batch QC
	MW-9B	06-19-24 11:00	WATER	Sulfide	
	DUP	06-18-24 00:00	WATER	Sulfide	
	MW-8B2	06-18-24 18:07	WATER	Sulfide	

	Relinquished By:	Date/Time:	Received By:	Date/Time:
		6/24/24		6/24 1800
		6/24 2220		6/24 2205
		6/24/24	Don D Pace 6/25/24	6/25/24 645
Form No: AL_subcoc	Don D Pace 6/25/24 1000			6/25/24 1000

TEMP = 2.03 on ice

Sample Condition Upon Receipt Form (SCUR)

Project # 24F3300
Client: Alpha Analytical

Date and Initials of person:
Examining contents:_____
Label:_____
Deliver to location:_____
pH:_____

Thermometer Used: IRG4 Date: 6/25 Time: 1000 Initials:_____

State of Origin: NY

Cooler #1 Temp.°C 2.3 (Visual) 0.2 @ 0.0°C, -0.5 @20.0°C (Correction Factor) _____(Actual) ☒ Samples on ice, cooling process has begun

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☒ Pace ☐ Other_____

Shipping Method: ☐ First Overnight ☐ Priority Overnight ☐ Standard Overnight ☐ Ground
☐ Other_____

Tracking # _____

Custody Seal on Cooler/Box Present: ☐ Yes ☐ No Seals intact: ☐ Yes ☐ No Ice: (Wet) Blue Melted None

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☐ None ☐ Other_____

Samples were collected by Pace employee ☐ Yes ☐ No ☐ N/A

		Comments:
Chain of Custody Present	☒Yes ☐ No ☐ N/A	
Chain of Custody Filled Out	☒Yes ☐ No ☐ N/A	
Relinquished Signature on COC	☒Yes ☐ No ☐ N/A	
Sampler Name and Signature on COC	☒Yes ☐ No ☐ N/A	
Samples Arrived within Hold Time	☒Yes ☐ No ☐ N/A	
Rush TAT requested on COC	☐Yes ☐ No ☐ N/A	
Sufficient Volume	☒Yes ☐ No ☐ N/A	
Correct Containers Used	☒Yes ☐ No ☐ N/A	
Containers Intact	☒Yes ☐ No ☐ N/A	
Sample Labels match COC (sample IDs & date/time of collection)	☒Yes ☐ No ☐ N/A	
All containers needing acid/base preservation have been checked.	☐Yes ☐ No ☐ N/A	Preservation Information: Preservative:_____ Lot #/Trace #:_____ Date:_____ Time:_____ Initials:_____
All Containers needing preservation are found to be in compliance with EPA recommendation: Exceptions: Vials, Microbiology, O&G, Metals	☐Yes ☐ No ☐ N/A	
Headspace in VOA Vials? (>6mm):	☐Yes ☐ No ☐N/A	
Trip Blank Present:	☐Yes ☐ No ☐N/A	

Additional Login Comments:

Client notification/ Resolution
Person Contacted: Date/Time:
Comments/Resolution:

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

July 08, 2024

Pace MA
Pace MA
Eight Walkup Drive
Westborough, MA 01581

RE: Project: L2434679
Pace Project No.: 50376610

Dear Pace MA:

Enclosed are the analytical results for sample(s) received by the laboratory on June 25, 2024. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Indianapolis

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Tina Sayer

Tina Sayer
tina.sayer@pacelabs.com
(317)228-3127
Project Manager

Enclosures

cc: Candace Fox, Pace MA

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

CERTIFICATIONS

Project: L2434679
Pace Project No.: 50376610

Pace Analytical Services Indianapolis
7726 Moller Road, Indianapolis, IN 46268
Illinois Accreditation #: 200074
Indiana Drinking Water Laboratory #: C-49-06
Kansas/TNI Certification #: E-10177
Kentucky UST Agency Interest #: 80226
Kentucky WW Laboratory ID #: 98019
Michigan Drinking Water Laboratory #9050
Oklahoma Laboratory #: 9204
Texas Certification #: T104704355
Washington Dept of Ecology #: C1081
Wisconsin Laboratory #: 999788130
USDA Foreign Soil Permit #: 525-23-13-23119
USDA Compliance Agreement #: IN-SL-22-001

REPORT OF LABORATORY ANALYSIS

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without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

SAMPLE SUMMARY

Project: L2434679
Pace Project No.: 50376610

Lab ID	Sample ID	Matrix	Date Collected	Date Received
50376610001	**MW-3A**	Water	06/19/24 09:30	06/25/24 10:15
50376610002	**MW-6A**	Water	06/18/24 16:35	06/25/24 10:15
50376610003	**MW-6B**	Water	06/18/24 14:50	06/25/24 10:15
50376610004	**MW-6C**	Water	06/18/24 14:49	06/25/24 10:15
50376610005	**MW-7A**	Water	06/18/24 10:15	06/25/24 10:15
50376610006	**MW-7B**	Water	06/18/24 12:05	06/25/24 10:15
50376610007	**MW-7C**	Water	06/18/24 12:12	06/25/24 10:15
50376610008	**MW-8A**	Water	06/18/24 16:47	06/25/24 10:15
50376610009	**MW-8B**	Water	06/18/24 18:25	06/25/24 10:15
50376610010	**MW-9B**	Water	06/19/24 11:00	06/25/24 10:15
50376610011	**DUP**	Water	06/18/24 00:00	06/25/24 10:15
50376610012	**MW-8B2**	Water	06/18/24 18:07	06/25/24 10:15

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Indianapolis, IN 46268
(317)228-3100

SAMPLE ANALYTE COUNT

Project: L2434679
Pace Project No.: 50376610

Lab ID	Sample ID	Method	Analysts	Analytes Reported
50376610001	**MW-3A**	EPA 9056	ADM	1
50376610002	**MW-6A**	EPA 9056	ADM	1
50376610003	**MW-6B**	EPA 9056	ADM	1
50376610004	**MW-6C**	EPA 9056	ADM	1
50376610005	**MW-7A**	EPA 9056	ADM	1
50376610006	**MW-7B**	EPA 9056	ADM	1
50376610007	**MW-7C**	EPA 9056	ADM	1
50376610008	**MW-8A**	EPA 9056	ADM	1
50376610009	**MW-8B**	EPA 9056	ADM	1
50376610010	**MW-9B**	EPA 9056	ADM	1
50376610011	**DUP**	EPA 9056	ADM	1
50376610012	**MW-8B2**	EPA 9056	ADM	1

PASI-I = Pace Analytical Services - Indianapolis

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ANALYTICAL RESULTS

Project: L2434679
Pace Project No.: 50376610

Sample: MW-3A **Lab ID: 50376610001** Collected: 06/19/24 09:30 Received: 06/25/24 10:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
9056 Iodide by IC	Analytical Method: EPA 9056 Pace Analytical Services - Indianapolis							
Iodide	ND	mg/L	0.50	1		07/05/24 18:48		

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ANALYTICAL RESULTS

Project: L2434679
Pace Project No.: 50376610

Sample: MW-6A **Lab ID: 50376610002** Collected: 06/18/24 16:35 Received: 06/25/24 10:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
9056 Iodide by IC	Analytical Method: EPA 9056 Pace Analytical Services - Indianapolis							
Iodide	ND	mg/L	0.50	1		07/05/24 19:09		

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ANALYTICAL RESULTS

Project: L2434679
Pace Project No.: 50376610

Sample: MW-6B **Lab ID: 50376610003** Collected: 06/18/24 14:50 Received: 06/25/24 10:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
9056 Iodide by IC	Analytical Method: EPA 9056 Pace Analytical Services - Indianapolis							
Iodide	ND	mg/L	0.50	1		07/05/24 19:31		

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ANALYTICAL RESULTS

Project: L2434679
Pace Project No.: 50376610

Sample: MW-6C **Lab ID: 50376610004** Collected: 06/18/24 14:49 Received: 06/25/24 10:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
9056 Iodide by IC	Analytical Method: EPA 9056 Pace Analytical Services - Indianapolis							
Iodide	ND	mg/L	0.50	1		07/06/24 14:41		

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ANALYTICAL RESULTS

Project: L2434679
Pace Project No.: 50376610

Sample: MW-7A **Lab ID: 50376610005** Collected: 06/18/24 10:15 Received: 06/25/24 10:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
9056 Iodide by IC	Analytical Method: EPA 9056 Pace Analytical Services - Indianapolis							
Iodide	ND	mg/L	0.50	1		07/05/24 20:15		

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ANALYTICAL RESULTS

Project: L2434679
Pace Project No.: 50376610

Sample: MW-7B **Lab ID: 50376610006** Collected: 06/18/24 12:05 Received: 06/25/24 10:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
9056 Iodide by IC	Analytical Method: EPA 9056 Pace Analytical Services - Indianapolis							
Iodide	ND	mg/L	0.50	1		07/05/24 20:37		

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ANALYTICAL RESULTS

Project: L2434679
Pace Project No.: 50376610

Sample: MW-7C **Lab ID: 50376610007** Collected: 06/18/24 12:12 Received: 06/25/24 10:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
9056 Iodide by IC	Analytical Method: EPA 9056 Pace Analytical Services - Indianapolis							
Iodide	ND	mg/L	0.50	1		07/05/24 21:42		

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ANALYTICAL RESULTS

Project: L2434679
Pace Project No.: 50376610

Sample: MW-8A **Lab ID: 50376610008** Collected: 06/18/24 16:47 Received: 06/25/24 10:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
9056 Iodide by IC	Analytical Method: EPA 9056 Pace Analytical Services - Indianapolis							
Iodide	ND	mg/L	0.50	1		07/05/24 22:04		

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ANALYTICAL RESULTS

Project: L2434679
Pace Project No.: 50376610

Sample: MW-8B **Lab ID: 50376610009** Collected: 06/18/24 18:25 Received: 06/25/24 10:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
9056 Iodide by IC	Analytical Method: EPA 9056 Pace Analytical Services - Indianapolis							
Iodide	ND	mg/L	0.50	1		07/05/24 22:26		

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ANALYTICAL RESULTS

Project: L2434679
Pace Project No.: 50376610

Sample: MW-9B **Lab ID: 50376610010** Collected: 06/19/24 11:00 Received: 06/25/24 10:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
9056 Iodide by IC	Analytical Method: EPA 9056 Pace Analytical Services - Indianapolis							
Iodide	ND	mg/L	0.50	1		07/05/24 22:48		

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ANALYTICAL RESULTS

Project: L2434679
Pace Project No.: 50376610

Sample: DUP **Lab ID: 50376610011** Collected: 06/18/24 00:00 Received: 06/25/24 10:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
9056 Iodide by IC	Analytical Method: EPA 9056 Pace Analytical Services - Indianapolis							
Iodide	ND	mg/L	0.50	1		07/05/24 23:10		

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ANALYTICAL RESULTS

Project: L2434679
Pace Project No.: 50376610

Sample: MW-8B2 **Lab ID: 50376610012** Collected: 06/18/24 18:07 Received: 06/25/24 10:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
9056 Iodide by IC	Analytical Method: EPA 9056 Pace Analytical Services - Indianapolis							
Iodide	ND	mg/L	0.50	1		07/05/24 23:32		

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QUALITY CONTROL DATA

Project: L2434679
Pace Project No.: 50376610

QC Batch: 798157
QC Batch Method: EPA 9056
Analysis Method: EPA 9056
Analysis Description: 9056 Iodide by IC
Laboratory: Pace Analytical Services - Indianapolis
Associated Lab Samples: 50376610001, 50376610002, 50376610003, 50376610004, 50376610005, 50376610006, 50376610007, 50376610008, 50376610009, 50376610010, 50376610011, 50376610012

METHOD BLANK: 3651992 Matrix: Water
Associated Lab Samples: 50376610001, 50376610002, 50376610003, 50376610004, 50376610005, 50376610006, 50376610007, 50376610008, 50376610009, 50376610010, 50376610011, 50376610012

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Iodide	mg/L	ND	0.50	07/05/24 17:42	

LABORATORY CONTROL SAMPLE: 3651993

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Iodide	mg/L	5	5.7	114	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3655427 3655428

Parameter	Units	50376768001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Iodide	mg/L	ND	5	5	5.8	5.7	115	113	80-120	2	15	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

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QUALIFIERS

Project: L2434679
Pace Project No.: 50376610

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: L2434679
Pace Project No.: 50376610

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
50376610001	**MW-3A**	EPA 9056	798157		
50376610002	**MW-6A**	EPA 9056	798157		
50376610003	**MW-6B**	EPA 9056	798157		
50376610004	**MW-6C**	EPA 9056	798157		
50376610005	**MW-7A**	EPA 9056	798157		
50376610006	**MW-7B**	EPA 9056	798157		
50376610007	**MW-7C**	EPA 9056	798157		
50376610008	**MW-8A**	EPA 9056	798157		
50376610009	**MW-8B**	EPA 9056	798157		
50376610010	**MW-9B**	EPA 9056	798157		
50376610011	**DUP**	EPA 9056	798157		
50376610012	**MW-8B2**	EPA 9056	798157		

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ALPHA ANALYTICAL
World Class Chemistry

Subcontract Chain of Custody

Pace Analytical (Indianapolis, IN)
7726 Moller Road
Indianapolis, IN 46268

WO# : 50376610

50376610

Alpha Job Number

Client Information	Project Information	Regulatory Requirements/Report Limits
Client: Alpha Analytical Labs Address: Eight Walkup Drive Westborough, MA 01581-1019 Phone: 716-427-5223 Email: Candace.Fox@pacelabs.com	Project Location: NY Project Manager: Candace Fox Turnaround & Deliverables Information Due Date: Deliverables:	State/Federal Program: Regulatory Criteria:

Project Specific Requirements and/or Report Requirements

Reference following Alpha Job Number on final report/deliverables: L2434679

Report to include Method Blank, LCS/LCSD:

Additional Comments: Invoices to: invoices@pacelabs.coupahost.com Reports to: west.subreports@pacelabs.com ;ASP-B needed

Lab ID	Client ID	Collection Date/Time	Sample Matrix	Analysis	Batch QC
001	MW-3A	06-19-24 09:30	WATER	Iodide	
002	MW-6A	06-18-24 16:35	WATER	Iodide	
003	MW-6B	06-18-24 14:50	WATER	Iodide	
004	MW-6C	06-18-24 14:49	WATER	Iodide	
005	MW-7A	06-18-24 10:15	WATER	Iodide	
006	MW-7B	06-18-24 12:05	WATER	Iodide	
007	MW-7C	06-18-24 12:12	WATER	Iodide	
	MW-8A	06-18-24 16:47	WATER	Iodide	

0.8°C

	Relinquished By:	Date/Time:	Received By:	Date/Time:
		6/24/24	UPS	
	UPS			6/25/24 1015
Form No: AL_subcoc				

Pg 1 of 2

Subcontract Chain of Custody

Pace Analytical (Indianapolis, IN)
7726 Moller Road
Indianapolis, IN 46268

Alpha Job Number
L2434679

Client Information

Client: Alpha Analytical Labs
Address: Eight Walkup Drive
Westborough, MA 01581-1019

Phone: 716-427-5223
Email: Candace.Fox@pacelabs.com

Project Information

Project Location: NY
Project Manager: Candace Fox

Turnaround & Deliverables Information

Due Date:
Deliverables:

Regulatory Requirements/Report Limits

State/Federal Program:

Regulatory Criteria:

Project Specific Requirements and/or Report Requirements

Reference following Alpha Job Number on final report/deliverables: L2434679

Report to include Method Blank, LCS/LCSD:

Additional Comments: Send all results/reports to subreports@alphalab.com ;ASP-B needed

Lab ID	Client ID	Collection Date/Time	Sample Matrix	Analysis	Batch QC
008	MW-8B	06-18-24 18:25	WATER	Iodide	
009	MW-9B	06-19-24 11:00	WATER	Iodide	
010	DUP	06-18-24 00:00	WATER	Iodide	
	MW-8B2	06-18-24 18:07	WATER	Iodide	

0.8°C

Relinquished By:	Date/Time:	Received By:	Date/Time:
UPS	6/24/24	UPS	
		Daniel Houston/Pace	6/25/24 1015

Form No: AL_subcoc

Pace

SAMPLE CONDITION UPON RECEIPT FORM

Date/Time and Initials of person examining contents: DMP 6/25/24 10:29

1. Courier: ☐ FED EX ☑ UPS ☐ CLIENT ☐ PACE ☐ NOW/JETT ☐ OTHER _____

2. Custody Seal on Cooler/Box Present: ☑ Yes ☐ No

(If yes)Seals Intact: ☑ Yes ☐ No (leave blank if no seals were present)

3. Thermometer: 1 2 3 4 5 6 7 8 9 A B C D E F G H I

4. Cooler Temperature(s): 1.0/0.8 | | | |

(Initial/Corrected) RECORD TEMPS OF ALL COOLERS RECEIVED (use Comments below to add more)

5. Packing Material: ☐ Bubble Wrap ☑ Bubble Bags ☐ None ☐ Other _____

6. Ice Type: ☑ Wet ☐ Blue ☐ None

7. Was the PM notified of out of temp cooler?: ☐ Yes ☐ No

Cooler temp should be above freezing to 6°C

8. EZ Bottle Order? ☐ Yes ☑ No

If yes but not on COC what is the EZ Bottle Order Number?:

All discrepancies will be written out in the comments section below.

	Yes	No
USDA Regulated Soils? (HI, ID, NY, WA, OR,CA, NM, TX, OK, AR, LA, TN, AL, MS, NC, SC, GA, FL, or Puerto Rico)		✓
Short Hold Time Analysis (48 hours or less)? Analysis:		✓
Time 5035A TC placed in Freezer or Short Holds To Lab	Time:	
Rush TAT Requested (4 days or less):		✓
Custody Signatures Present?	✓	
Containers Intact?:	✓	
Sample Label (IDs/Dates/Times) Match COC?: Except TCs, which only require sample ID	✓	
Extra labels on Terracore Vials? (soils only)		

	Yes	No	N/A
All containers needing acid/base preservation have been pH CHECKED?: Exceptions: VOA, coliform, LLHg, O&G, RAD CHEM, and any container with a septum cap or preserved with HCl. Circle: HNO3 (<2) H2SO4 (<2) NaOH (>10) NaOH/ZnAc (>9) Any non-conformance to pH recommendations will be noted on the container count form			✓
	Present	Absent	N/A
Residual Chlorine Check (SVOC 625 Pest/PCB 608)			✓
Residual Chlorine Check (Total/Amenable/Free Cyanide)			✓
Headspace Wisconsin Sulfide?			✓
Headspace in VOA Vials (>6mm): See Containter Count form for details			No VOA Vials Sent ✓
Trip Blank Present?		✓	
Trip Blank Custody Seals?:			✓

COMMENTS:

COC PAGE 1 of 2

Sample Container Count

** Place a PINK dot on containers that are out of conformance **

COC Line Item	WGFU	WGKU BG1U	MeOH (only) SBS DI R	DG9H VG9H	VOA VIAL HS (>6mm)	VG9U DG9U	VG9T	AMBER GLASS: AG0U	AG1H	AG1U	AG3U	AG3S	AG3SF	AG3B	PLASTIC: BP1U	BP1N	BP2U	BP3U	BP3N	BP3F	BP3S	BP3B	BP3Z	OTHER: CG3H	CG3F	Syringe Kit			Matrix
1																													WT
2																													
3																													
4																													
5																													
6																													
7																													
8																													
9																													
10																													
11																													
12																													

Nitric	Sulfuric	Sodium Hydroxide	Sodium Hydroxide/ ZnAc
Red	Yellow	Green	Black
HNO3 <2	H2SO4 <2	NaOH >10	NaOH/Zn Ac >9

Container Codes

Glass

DG9H	40mL HCl amber voa vial	BG1T	1L Na Thiosulfate clear glass	BP1B	1L NaOH plastic
DG9P	40mL TSP amber vial	BG1U	1L unpreserved glass	BP1N	1L HNO3 plastic
DG9S	40mL H2SO4 amber vial	CG3H	250mL HCl Clear Glass	BP1S	1L H2SO4 plastic
DG9T	40mL Na Thio amber vial	CG3U	250mL Unpres Clear Glass	BP1U	1L unpreserved plastic
DG9U	40mL unpreserved amber vial	AG0U	100mL unpres amber glass	BP1Z	1L NaOH, Zn, Ac
VG9H	40mL HCl clear vial	AG1H	1L HCl amber glass	BP2N	500mL HNO3 plastic
VG9T	40mL Na Thio. clear vial	AG1S	1L H2SO4 amber glass	BP2C	500mL NaOH plastic
VG9U	40mL unpreserved clear vial	AG1T	1L Na Thiosulfate amber glass	BP2S	500mL H2SO4 plastic
I	40mL w/hexane wipe vial	AG1U	1liter unpres amber glass	BP2U	500mL unpreserved plastic
WGKU	8oz unpreserved clear jar	AG2N	500mL HNO3 amber glass	BP2Z	500mL NaOH, Zn Ac
WGFU	4oz clear soil jar	AG2S	500mL H2SO4 amber glass	BP3B	250mL NaOH plastic
JGFU	4oz unpreserved amber wide	AG2U	500mL unpres amber glass	BP3N	250mL HNO3 plastic
CG3H	250mL clear glass HCl	AG3S	250mL H2SO4 amber glass	BP3F	250mL HNO3 plastic-field filtered
CG3F	250mL clear glass HCl, Field Filter	AG3SF	250mL H2SO4 amb glass -field filtered	BP3U	250mL unpreserved plastic
BG1H	1L HCl clear glass	AG3U	250mL unpres amber glass	BP3S	250mL H2SO4 plastic
BG1S	1L H2SO4 clear glass	AG3B	250mL NaOH amber glass	BP3Z	250mL NaOH, ZnAc plastic

Plastic

NT3U	Non Teflon 250mL unpreserved plastic
BP4U	125mL unpreserved plastic
BP4N	125mL HNO3 plastic
BP4S	125mL H2SO4 plastic

Miscellaneous

Syringe Kit	LL Cr+6 sampling kit
ZPLC	Ziploc Bag
R	Terracore Kit
SP5T	120mL Coliform Sodium Thiosulfate
GN	General Container
U	Summa Can (air sample)
WT	Water
SL	Solid
OL:	Oil
NAL	Non-aqueous liquid
WP	Wipe

COC PAGE 2 of 2

Sample Container Count

** Place a PINK dot on containers that are out of conformance **

									AMBER GLASS							PLASTIC									OTHER						
			MeOH (only)																											
			SBS																											
			DI																											
COC Line Item	WGFU	WGKU BG1U	R	DG9H VG9H	VOA VIAL HS (>6mm)	VG9U DG9U	VG9T	AG0U	AG1H	AG1U	AG3U	AG3S	AG3SF	AG3B	BP1U	BP1N	BP2U	BP3U	BP3N	BP3F	BP3S	BP3B	BP3Z	CG3H	CG3F	Syringe Kit			Matrix	Nitric Red HNO3 <2	Sulfuric Yellow H2SO4 <2	Sodium Hydroxide Green NaOH >10	Sodium Hydroxide/ ZnAc Black NaOH/Zn Ac >9
1																		1										WT				
2																		↓										↓				
3																																
4																		↓										↓				
5																																
6																																
7																																
8																																
9																																
10																																
11																																
12																																

Container Codes

Glass

DG9H	40mL HCl amber voa vial	BG1T	1L Na Thiosulfate clear glass	BP1B	1L NaOH plastic
DG9P	40mL TSP amber vial	BG1U	1L unpreserved glass	BP1N	1L HNO3 plastic
DG9S	40mL H2SO4 amber vial	CG3H	250mL HCl Clear Glass	BP1S	1L H2SO4 plastic
DG9T	40mL Na Thio amber vial	CG3U	250mL Unpres Clear Glass	BP1U	1L unpreserved plastic
DG9U	40mL unpreserved amber vial	AG0U	100mL unpres amber glass	BP1Z	1L NaOH, Zn, Ac
VG9H	40mL HCl clear vial	AG1H	1L HCl amber glass	BP2N	500mL HNO3 plastic
VG9T	40mL Na Thio. clear vial	AG1S	1L H2SO4 amber glass	BP2C	500mL NaOH plastic
VG9U	40mL unpreserved clear vial	AG1T	1L Na Thiosulfate amber glass	BP2S	500mL H2SO4 plastic
I	40mL w/hexane wipe vial	AG1U	1liter unpres amber glass	BP2U	500mL unpreserved plastic
WGKU	8oz unpreserved clear jar	AG2N	500mL HNO3 amber glass	BP2Z	500mL NaOH, Zn Ac
WGFU	4oz clear soil jar	AG2S	500mL H2SO4 amber glass	BP3B	250mL NaOH plastic
JGFU	4oz unpreserved amber wide	AG2U	500mL unpres amber glass	BP3N	250mL HNO3 plastic
CG3H	250mL clear glass HCl	AG3S	250mL H2SO4 amber glass	BP3F	250mL HNO3 plastic-field filtered
CG3F	250mL clear glass HCl, Field Filter	AG3SF	250mL H2SO4 amb glass -field filtered	BP3U	250mL unpreserved plastic
BG1H	1L HCl clear glass	AG3U	250mL unpres amber glass	BP3S	250mL H2SO4 plastic
BG1S	1L H2SO4 clear glass	AG3B	250mL NaOH amber glass	BP3Z	250mL NaOH, ZnAc plastic

Plastic

NT3U	Non Teflon 250mL unpreserved plastic
BP4U	125mL unpreserved plastic
BP4N	125mL HNO3 plastic
BP4S	125mL H2SO4 plastic

Miscellaneous

Syringe Kit	LL Cr+6 sampling kit
ZPLC	Ziploc Bag
R	Terracore Kit
SP5T	120mL Coliform Sodium Thiosulfate
GN	General Container
U	Summa Can (air sample)
WT	Water
SL	Solid
OL:	Oil
NAL	Non-aqueous liquid
WP	Wipe

Analytical Data Package

Prepared by:

Pace Analytical Services

Pace Project No.: 50376610

Table Of Contents

Project Overview

Final Report with COC/SCUR . . . 1

Certifications . . . 2

Sample Summary . . . 3

Sample Analyte Count . . . 4

Analytical Results . . . 5

Quality Control Data . . . 17

Qualifiers . . . 18

Quality Control Data Cross Reference Table . . . 19

Chain of Custody . . . 20

InOrganic

Ion Chromatography

Analytical Results (Form 1-IN) . . . 25

Initial & Continuing Calibration Verification (Form 2A-IN) . . . 37

Blanks (Form 3-IN) . . . 40

Matrix Spike Recovery (Form 5A-IN) . . . 42

Duplicates (Form 6-IN) . . . 44

Laboratory Control Spike (Form 7-IN) . . . 45

Preparation Log (Form 12-IN) . . . 46

Analysis Run Log (Form 13-IN) . . . 47

Ion Chromatography Raw Data (Multiple Schedules/Sample) . . . 49

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

July 08, 2024

Pace MA
Pace MA
Eight Walkup Drive
Westborough, MA 01581

RE: Project: L2434679
Pace Project No.: 50376610

Dear Pace MA:

Enclosed are the analytical results for sample(s) received by the laboratory on June 25, 2024. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Indianapolis

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Tina Sayer

Tina Sayer
tina.sayer@pacelabs.com
(317)228-3127
Project Manager

Enclosures

cc: Candace Fox, Pace MA

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

CERTIFICATIONS

Project: L2434679
Pace Project No.: 50376610

Pace Analytical Services Indianapolis
7726 Moller Road, Indianapolis, IN 46268
Illinois Accreditation #: 200074
Indiana Drinking Water Laboratory #: C-49-06
Kansas/TNI Certification #: E-10177
Kentucky UST Agency Interest #: 80226
Kentucky WW Laboratory ID #: 98019
Michigan Drinking Water Laboratory #9050
Oklahoma Laboratory #: 9204
Texas Certification #: T104704355
Washington Dept of Ecology #: C1081
Wisconsin Laboratory #: 999788130
USDA Foreign Soil Permit #: 525-23-13-23119
USDA Compliance Agreement #: IN-SL-22-001

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

SAMPLE SUMMARY

Project: L2434679
Pace Project No.: 50376610

Lab ID	Sample ID	Matrix	Date Collected	Date Received
50376610001	**MW-3A**	Water	06/19/24 09:30	06/25/24 10:15
50376610002	**MW-6A**	Water	06/18/24 16:35	06/25/24 10:15
50376610003	**MW-6B**	Water	06/18/24 14:50	06/25/24 10:15
50376610004	**MW-6C**	Water	06/18/24 14:49	06/25/24 10:15
50376610005	**MW-7A**	Water	06/18/24 10:15	06/25/24 10:15
50376610006	**MW-7B**	Water	06/18/24 12:05	06/25/24 10:15
50376610007	**MW-7C**	Water	06/18/24 12:12	06/25/24 10:15
50376610008	**MW-8A**	Water	06/18/24 16:47	06/25/24 10:15
50376610009	**MW-8B**	Water	06/18/24 18:25	06/25/24 10:15
50376610010	**MW-9B**	Water	06/19/24 11:00	06/25/24 10:15
50376610011	**DUP**	Water	06/18/24 00:00	06/25/24 10:15
50376610012	**MW-8B2**	Water	06/18/24 18:07	06/25/24 10:15

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(317)228-3100

SAMPLE ANALYTE COUNT

Project: L2434679
Pace Project No.: 50376610

Lab ID	Sample ID	Method	Analysts	Analytes Reported
50376610001	**MW-3A**	EPA 9056	ADM	1
50376610002	**MW-6A**	EPA 9056	ADM	1
50376610003	**MW-6B**	EPA 9056	ADM	1
50376610004	**MW-6C**	EPA 9056	ADM	1
50376610005	**MW-7A**	EPA 9056	ADM	1
50376610006	**MW-7B**	EPA 9056	ADM	1
50376610007	**MW-7C**	EPA 9056	ADM	1
50376610008	**MW-8A**	EPA 9056	ADM	1
50376610009	**MW-8B**	EPA 9056	ADM	1
50376610010	**MW-9B**	EPA 9056	ADM	1
50376610011	**DUP**	EPA 9056	ADM	1
50376610012	**MW-8B2**	EPA 9056	ADM	1

PASI-I = Pace Analytical Services - Indianapolis

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Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: L2434679
Pace Project No.: 50376610

Sample: MW-3A **Lab ID: 50376610001** Collected: 06/19/24 09:30 Received: 06/25/24 10:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
9056 Iodide by IC	Analytical Method: EPA 9056 Pace Analytical Services - Indianapolis							
Iodide	ND	mg/L	0.50	1		07/05/24 18:48		

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Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: L2434679
Pace Project No.: 50376610

Sample: MW-6A **Lab ID: 50376610002** Collected: 06/18/24 16:35 Received: 06/25/24 10:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
9056 Iodide by IC	Analytical Method: EPA 9056 Pace Analytical Services - Indianapolis							
Iodide	ND	mg/L	0.50	1		07/05/24 19:09		

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Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: L2434679
Pace Project No.: 50376610

Sample: MW-6B **Lab ID: 50376610003** Collected: 06/18/24 14:50 Received: 06/25/24 10:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
9056 Iodide by IC	Analytical Method: EPA 9056 Pace Analytical Services - Indianapolis							
Iodide	ND	mg/L	0.50	1		07/05/24 19:31		

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Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: L2434679
Pace Project No.: 50376610

Sample: MW-6C **Lab ID: 50376610004** Collected: 06/18/24 14:49 Received: 06/25/24 10:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
9056 Iodide by IC	Analytical Method: EPA 9056 Pace Analytical Services - Indianapolis							
Iodide	ND	mg/L	0.50	1		07/06/24 14:41		

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Pace Analytical Services, LLC
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Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: L2434679
Pace Project No.: 50376610

Sample: MW-7A **Lab ID: 50376610005** Collected: 06/18/24 10:15 Received: 06/25/24 10:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
9056 Iodide by IC	Analytical Method: EPA 9056 Pace Analytical Services - Indianapolis							
Iodide	ND	mg/L	0.50	1		07/05/24 20:15		

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Indianapolis, IN 46268
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ANALYTICAL RESULTS

Project: L2434679
Pace Project No.: 50376610

Sample: MW-7B **Lab ID: 50376610006** Collected: 06/18/24 12:05 Received: 06/25/24 10:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
9056 Iodide by IC	Analytical Method: EPA 9056 Pace Analytical Services - Indianapolis							
Iodide	ND	mg/L	0.50	1		07/05/24 20:37		

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ANALYTICAL RESULTS

Project: L2434679
Pace Project No.: 50376610

Sample: MW-7C **Lab ID: 50376610007** Collected: 06/18/24 12:12 Received: 06/25/24 10:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
9056 Iodide by IC	Analytical Method: EPA 9056 Pace Analytical Services - Indianapolis							
Iodide	ND	mg/L	0.50	1		07/05/24 21:42		

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(317)228-3100

ANALYTICAL RESULTS

Project: L2434679
Pace Project No.: 50376610

Sample: MW-8A **Lab ID: 50376610008** Collected: 06/18/24 16:47 Received: 06/25/24 10:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
9056 Iodide by IC	Analytical Method: EPA 9056 Pace Analytical Services - Indianapolis							
Iodide	ND	mg/L	0.50	1		07/05/24 22:04		

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Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: L2434679
Pace Project No.: 50376610

Sample: MW-8B **Lab ID: 50376610009** Collected: 06/18/24 18:25 Received: 06/25/24 10:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
9056 Iodide by IC	Analytical Method: EPA 9056 Pace Analytical Services - Indianapolis							
Iodide	ND	mg/L	0.50	1		07/05/24 22:26		

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Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: L2434679
Pace Project No.: 50376610

Sample: MW-9B **Lab ID: 50376610010** Collected: 06/19/24 11:00 Received: 06/25/24 10:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
9056 Iodide by IC	Analytical Method: EPA 9056 Pace Analytical Services - Indianapolis							
Iodide	ND	mg/L	0.50	1		07/05/24 22:48		

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Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: L2434679
Pace Project No.: 50376610

Sample: DUP **Lab ID: 50376610011** Collected: 06/18/24 00:00 Received: 06/25/24 10:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
9056 Iodide by IC	Analytical Method: EPA 9056 Pace Analytical Services - Indianapolis							
Iodide	ND	mg/L	0.50	1		07/05/24 23:10		

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ANALYTICAL RESULTS

Project: L2434679
Pace Project No.: 50376610

Sample: MW-8B2 **Lab ID: 50376610012** Collected: 06/18/24 18:07 Received: 06/25/24 10:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
9056 Iodide by IC	Analytical Method: EPA 9056 Pace Analytical Services - Indianapolis							
Iodide	ND	mg/L	0.50	1		07/05/24 23:32		

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(317)228-3100

QUALITY CONTROL DATA

Project: L2434679
Pace Project No.: 50376610

QC Batch: 798157
QC Batch Method: EPA 9056
Analysis Method: EPA 9056
Analysis Description: 9056 Iodide by IC
Laboratory: Pace Analytical Services - Indianapolis
Associated Lab Samples: 50376610001, 50376610002, 50376610003, 50376610004, 50376610005, 50376610006, 50376610007, 50376610008, 50376610009, 50376610010, 50376610011, 50376610012

METHOD BLANK: 3651992 Matrix: Water
Associated Lab Samples: 50376610001, 50376610002, 50376610003, 50376610004, 50376610005, 50376610006, 50376610007, 50376610008, 50376610009, 50376610010, 50376610011, 50376610012

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Iodide	mg/L	ND	0.50	07/05/24 17:42	

LABORATORY CONTROL SAMPLE: 3651993

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Iodide	mg/L	5	5.7	114	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3655427 3655428

Parameter	Units	50376768001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Iodide	mg/L	ND	5	5	5.8	5.7	115	113	80-120	2	15	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

QUALIFIERS

Project: L2434679
Pace Project No.: 50376610

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

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7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: L2434679
Pace Project No.: 50376610

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
50376610001	**MW-3A**	EPA 9056	798157		
50376610002	**MW-6A**	EPA 9056	798157		
50376610003	**MW-6B**	EPA 9056	798157		
50376610004	**MW-6C**	EPA 9056	798157		
50376610005	**MW-7A**	EPA 9056	798157		
50376610006	**MW-7B**	EPA 9056	798157		
50376610007	**MW-7C**	EPA 9056	798157		
50376610008	**MW-8A**	EPA 9056	798157		
50376610009	**MW-8B**	EPA 9056	798157		
50376610010	**MW-9B**	EPA 9056	798157		
50376610011	**DUP**	EPA 9056	798157		
50376610012	**MW-8B2**	EPA 9056	798157		

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ALPHA ANALYTICAL
World Class Chemistry

Subcontract Chain of Custody

Pace Analytical (Indianapolis, IN)
7726 Moller Road
Indianapolis, IN 46268

WO# : 50376610

50376610

Alpha Job Number

Client Information	Project Information	Regulatory Requirements/Report Limits
Client: Alpha Analytical Labs Address: Eight Walkup Drive Westborough, MA 01581-1019 Phone: 716-427-5223 Email: Candace.Fox@pacelabs.com	Project Location: NY Project Manager: Candace Fox Turnaround & Deliverables Information Due Date: Deliverables:	State/Federal Program: Regulatory Criteria:

Project Specific Requirements and/or Report Requirements

Reference following Alpha Job Number on final report/deliverables: L2434679

Report to include Method Blank, LCS/LCSD:

Additional Comments: Invoices to: invoices@pacelabs.coupahost.com Reports to: west.subreports@pacelabs.com ;ASP-B needed

Lab ID	Client ID	Collection Date/Time	Sample Matrix	Analysis	Batch QC
001	MW-3A	06-19-24 09:30	WATER	Iodide	
002	MW-6A	06-18-24 16:35	WATER	Iodide	
003	MW-6B	06-18-24 14:50	WATER	Iodide	
004	MW-6C	06-18-24 14:49	WATER	Iodide	
005	MW-7A	06-18-24 10:15	WATER	Iodide	
006	MW-7B	06-18-24 12:05	WATER	Iodide	
007	MW-7C	06-18-24 12:12	WATER	Iodide	
	MW-8A	06-18-24 16:47	WATER	Iodide	

0.8°C

	Relinquished By:	Date/Time:	Received By:	Date/Time:
		6/24/24	UPS	
	UPS			6/25/24 1015
Form No: AL_subcoc				

Subcontract Chain of Custody

Pace Analytical (Indianapolis, IN)
7726 Moller Road
Indianapolis, IN 46268

Alpha Job Number
L2434679

Client Information

Client: Alpha Analytical Labs
Address: Eight Walkup Drive
Westborough, MA 01581-1019

Phone: 716-427-5223
Email: Candace.Fox@pacelabs.com

Project Information

Project Location: NY
Project Manager: Candace Fox

Turnaround & Deliverables Information

Due Date:
Deliverables:

Regulatory Requirements/Report Limits

State/Federal Program:
Regulatory Criteria:

Project Specific Requirements and/or Report Requirements

Reference following Alpha Job Number on final report/deliverables: L2434679

Report to include Method Blank, LCS/LCSD:

Additional Comments: Send all results/reports to subreports@alphalab.com ;ASP-B needed

Lab ID	Client ID	Collection Date/Time	Sample Matrix	Analysis	Batch QC
008	MW-8B	06-18-24 18:25	WATER	Iodide	
009	MW-9B	06-19-24 11:00	WATER	Iodide	
010	DUP	06-18-24 00:00	WATER	Iodide	
	MW-8B2	06-18-24 18:07	WATER	Iodide	

0.8°C

Relinquished By:	Date/Time:	Received By:	Date/Time:
UPS	6/24/24	UPS	
		Daniel Houston/Pace	6/25/24 1015

Form No: AL_subcoc

Pace

SAMPLE CONDITION UPON RECEIPT FORM

Date/Time and Initials of person examining contents: DMP 6/25/24 10:29

1. Courier: ☐ FED EX ☑ UPS ☐ CLIENT ☐ PACE ☐ NOW/JETT ☐ OTHER _____

2. Custody Seal on Cooler/Box Present: ☑ Yes ☐ No

(If yes)Seals Intact: ☑ Yes ☐ No (leave blank if no seals were present)

3. Thermometer: 1 2 3 4 5 6 7 8 9 A B C D E F G H I

4. Cooler Temperature(s): 1.0/0.8 | | | |

(Initial/Corrected) RECORD TEMPS OF ALL COOLERS RECEIVED (use Comments below to add more)

5. Packing Material: ☐ Bubble Wrap ☑ Bubble Bags ☐ None ☐ Other _____

6. Ice Type: ☑ Wet ☐ Blue ☐ None

7. Was the PM notified of out of temp cooler?: ☐ Yes ☐ No

Cooler temp should be above freezing to 6°C

8. EZ Bottle Order? ☐ Yes ☑ No

If yes but not on COC what is the EZ Bottle Order Number?:

All discrepancies will be written out in the comments section below.

	Yes	No		Yes	No	N/A
USDA Regulated Soils? (HI, ID, NY, WA, OR,CA, NM, TX, OK, AR, LA, TN, AL, MS, NC, SC, GA, FL, or Puerto Rico)		✓	All containers needing acid/base preservation have been pH CHECKED?: **Exceptions: VOA, coliform, LLHg, O&G, RAD CHEM, and any container with a septum cap or preserved with HCl.** **Circle: HNO3 (<2) H2SO4 (<2) NaOH (>10) NaOH/ZnAc (>9)** Any non-conformance to pH recommendations will be noted on the container count form			✓
Short Hold Time Analysis (48 hours or less)? Analysis:		✓				
Time 5035A TC placed in Freezer or Short Holds To Lab	Time:			Present	Absent	N/A
Rush TAT Requested (4 days or less):		✓	Residual Chlorine Check (SVOC 625 Pest/PCB 608)			✓
Custody Signatures Present?	✓		Residual Chlorine Check (Total/Amenable/Free Cyanide)			✓
Containers Intact?:	✓		Headspace Wisconsin Sulfide?			✓
Sample Label (IDs/Dates/Times) Match COC?: Except TCs, which only require sample ID	✓		Headspace in VOA Vials (>6mm): See Containter Count form for details	Present	Absent	No VOA Vials Sent ✓
Extra labels on Terracore Vials? (soils only)		•	Trip Blank Present?		✓	
			Trip Blank Custody Seals?:			✓

COMMENTS:

COC PAGE 1 of 2

Sample Container Count

** Place a PINK dot on containers that are out of conformance **

COC Line Item	WGFU	WGKU BG1U	MeOH (only) SBS DI R	DG9H VG9H	VOA VIAL HS (>6mm)	VG9U DG9U	VG9T	AMBER GLASS: AG0U	AG1H	AG1U	AG3U	AG3S	AG3SF	AG3B	PLASTIC: BP1U	BP1N	BP2U	BP3U	BP3N	BP3F	BP3S	BP3B	BP3Z	OTHER: CG3H	CG3F	Syringe Kit			Matrix
1																													WT
2																													
3																													
4																													
5																													
6																													
7																													
8																													
9																													
10																													
11																													
12																													

Nitric	Sulfuric	Sodium Hydroxide	Sodium Hydroxide/ ZnAc
Red	Yellow	Green	Black
HNO3 <2	H2SO4 <2	NaOH >10	NaOH/Zn Ac >9

Container Codes

Glass

DG9H	40mL HCl amber voa vial	BG1T	1L Na Thiosulfate clear glass	BP1B	1L NaOH plastic
DG9P	40mL TSP amber vial	BG1U	1L unpreserved glass	BP1N	1L HNO3 plastic
DG9S	40mL H2SO4 amber vial	CG3H	250mL HCl Clear Glass	BP1S	1L H2SO4 plastic
DG9T	40mL Na Thio amber vial	CG3U	250mL Unpres Clear Glass	BP1U	1L unpreserved plastic
DG9U	40mL unpreserved amber vial	AG0U	100mL unpres amber glass	BP1Z	1L NaOH, Zn, Ac
VG9H	40mL HCl clear vial	AG1H	1L HCl amber glass	BP2N	500mL HNO3 plastic
VG9T	40mL Na Thio. clear vial	AG1S	1L H2SO4 amber glass	BP2C	500mL NaOH plastic
VG9U	40mL unpreserved clear vial	AG1T	1L Na Thiosulfate amber glass	BP2S	500mL H2SO4 plastic
I	40mL w/hexane wipe vial	AG1U	1liter unpres amber glass	BP2U	500mL unpreserved plastic
WGKU	8oz unpreserved clear jar	AG2N	500mL HNO3 amber glass	BP2Z	500mL NaOH, Zn Ac
WGFU	4oz clear soil jar	AG2S	500mL H2SO4 amber glass	BP3B	250mL NaOH plastic
JGFU	4oz unpreserved amber wide	AG2U	500mL unpres amber glass	BP3N	250mL HNO3 plastic
CG3H	250mL clear glass HCl	AG3S	250mL H2SO4 amber glass	BP3F	250mL HNO3 plastic-field filtered
CG3F	250mL clear glass HCl, Field Filter	AG3SF	250mL H2SO4 amb glass -field filtered	BP3U	250mL unpreserved plastic
BG1H	1L HCl clear glass	AG3U	250mL unpres amber glass	BP3S	250mL H2SO4 plastic
BG1S	1L H2SO4 clear glass	AG3B	250mL NaOH amber glass	BP3Z	250mL NaOH, ZnAc plastic

Plastic

NT3U	Non Teflon 250mL unpreserved plastic
BP4U	125mL unpreserved plastic
BP4N	125mL HNO3 plastic
BP4S	125mL H2SO4 plastic

Miscellaneous

Syringe Kit	LL Cr+6 sampling kit
ZPLC	Ziploc Bag
R	Terracore Kit
SP5T	120mL Coliform Sodium Thiosulfate
GN	General Container
U	Summa Can (air sample)
WT	Water
SL	Solid
OL:	Oil
NAL	Non-aqueous liquid
WP	Wipe

COC PAGE 2 of 2

Sample Container Count

** Place a PINK dot on containers that are out of conformance **

COC Line Item	WGFU	WGKU BG1U	MeOH (only) SBS DI R	DG9H VG9H	VOA VIAL HS (>6mm)	VG9U DG9U	VG9T	AMBER GLASS: AG0U	AG1H	AG1U	AG3U	AG3S	AG3SF	AG3B	PLASTIC: BP1U	BP1N	BP2U	BP3U	BP3N	BP3F	BP3S	BP3B	BP3Z	OTHER: CG3H	CG3F	Syringe Kit			Matrix
1																		1											WT
2																		↓											↓
3																													
4																		↓											↓
5																													
6																													
7																													
8																													
9																													
10																													
11																													
12																													

Nitric	Sulfuric	Sodium Hydroxide	Sodium Hydroxide/ ZnAc
Red	Yellow	Green	Black
HNO3 <2	H2SO4 <2	NaOH >10	NaOH/Zn Ac >9

Container Codes

Glass

DG9H	40mL HCl amber voa vial	BG1T	1L Na Thiosulfate clear glass	BP1B	1L NaOH plastic
DG9P	40mL TSP amber vial	BG1U	1L unpreserved glass	BP1N	1L HNO3 plastic
DG9S	40mL H2SO4 amber vial	CG3H	250mL HCl Clear Glass	BP1S	1L H2SO4 plastic
DG9T	40mL Na Thio amber vial	CG3U	250mL Unpres Clear Glass	BP1U	1L unpreserved plastic
DG9U	40mL unpreserved amber vial	AG0U	100mL unpres amber glass	BP1Z	1L NaOH, Zn, Ac
VG9H	40mL HCl clear vial	AG1H	1L HCl amber glass	BP2N	500mL HNO3 plastic
VG9T	40mL Na Thio. clear vial	AG1S	1L H2SO4 amber glass	BP2C	500mL NaOH plastic
VG9U	40mL unpreserved clear vial	AG1T	1L Na Thiosulfate amber glass	BP2S	500mL H2SO4 plastic
I	40mL w/hexane wipe vial	AG1U	1liter unpres amber glass	BP2U	500mL unpreserved plastic
WGKU	8oz unpreserved clear jar	AG2N	500mL HNO3 amber glass	BP2Z	500mL NaOH, Zn Ac
WGFU	4oz clear soil jar	AG2S	500mL H2SO4 amber glass	BP3B	250mL NaOH plastic
JGFU	4oz unpreserved amber wide	AG2U	500mL unpres amber glass	BP3N	250mL HNO3 plastic
CG3H	250mL clear glass HCl	AG3S	250mL H2SO4 amber glass	BP3F	250mL HNO3 plastic-field filtered
CG3F	250mL clear glass HCl, Field Filter	AG3SF	250mL H2SO4 amb glass -field filtered	BP3U	250mL unpreserved plastic
BG1H	1L HCl clear glass	AG3U	250mL unpres amber glass	BP3S	250mL H2SO4 plastic
BG1S	1L H2SO4 clear glass	AG3B	250mL NaOH amber glass	BP3Z	250mL NaOH, ZnAc plastic

Plastic

NT3U	Non Teflon 250mL unpreserved plastic
BP4U	125mL unpreserved plastic
BP4N	125mL HNO3 plastic
BP4S	125mL H2SO4 plastic

Miscellaneous

Syringe Kit	LL Cr+6 sampling kit
ZPLC	Ziploc Bag
R	Terracore Kit
SP5T	120mL Coliform Sodium Thiosulfate
GN	General Container
U	Summa Can (air sample)
WT	Water
SL	Solid
OL:	Oil
NAL	Non-aqueous liquid
WP	Wipe

SAMPLE NO.

MW-3A

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Indiana SDG No. : 50376610 Contract: L2434679

Lab Sample ID: 50376610001 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Iodide	ND	U	mg/L	1	07/05/2024 18:48

SAMPLE NO.

MW-6A

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Indiana SDG No. : 50376610 Contract: L2434679

Lab Sample ID: 50376610002 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Iodide	ND	U	mg/L	1	07/05/2024 19:09

SAMPLE NO.

MW-6B

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Indiana SDG No. : 50376610 Contract: L2434679

Lab Sample ID: 50376610003 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Iodide	ND	U	mg/L	1	07/05/2024 19:31

SAMPLE NO.

MW-6C

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Indiana SDG No. : 50376610 Contract: L2434679

Lab Sample ID: 50376610004 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Iodide	ND	U	mg/L	1	07/06/2024 14:41

SAMPLE NO.

MW-7A

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Indiana SDG No. : 50376610 Contract: L2434679

Lab Sample ID: 50376610005 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Iodide	ND	U	mg/L	1	07/05/2024 20:15

SAMPLE NO.

MW-7B

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Indiana SDG No. : 50376610 Contract: L2434679

Lab Sample ID: 50376610006 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Iodide	ND	U	mg/L	1	07/05/2024 20:37

SAMPLE NO.

MW-7C

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Indiana SDG No. : 50376610 Contract: L2434679

Lab Sample ID: 50376610007 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Iodide	ND	U	mg/L	1	07/05/2024 21:42

SAMPLE NO.

MW-8A

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Indiana SDG No. : 50376610 Contract: L2434679

Lab Sample ID: 50376610008 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Iodide	ND	U	mg/L	1	07/05/2024 22:04

SAMPLE NO.

MW-8B

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Indiana SDG No. : 50376610 Contract: L2434679

Lab Sample ID: 50376610009 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Iodide	ND	U	mg/L	1	07/05/2024 22:26

SAMPLE NO.

MW-9B

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Indiana SDG No. : 50376610 Contract: L2434679

Lab Sample ID: 50376610010 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Iodide	ND	U	mg/L	1	07/05/2024 22:48

SAMPLE NO.

DUP

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Indiana SDG No. : 50376610 Contract: L2434679

Lab Sample ID: 50376610011 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Iodide	ND	U	mg/L	1	07/05/2024 23:10

SAMPLE NO.

MW-8B2

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Indiana SDG No. : 50376610 Contract: L2434679

Lab Sample ID: 50376610012 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Iodide	ND	U	mg/L	1	07/05/2024 23:32

FORM II INORGANIC-1

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: Pace Analytical - Indiana SDG No. : 50376610 Contract: L2434679

Initial Calibration Verification Source: 371401

Continuing Calibration Verification Source: 387137

Concentration Units: mg/L Instrument ID: 50IC07

	Initial Calibration Verification				Continuing Calibration Verification						
	06/28/2024 06:10				07/05/2024 16:56			07/05/2024 20:59			Control Limit
Analyte	True	Found	%R	Control Limit	True	Found	%R	True	Found	%R	
Iodide	5.0	5.2	104.1	90-110	1.0	1.1	112.2	1.0	1.2	115.3	90-110

FORM II INORGANIC-2

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: Pace Analytical - Indiana SDG No. : 50376610 Contract: L2434679

Initial Calibration Verification Source:

Continuing Calibration Verification Source: 387137

Concentration Units: mg/L Instrument ID: 50IC07

	Continuing Calibration Verification			
	07/06/2024 00:16			Control Limit
Analyte	True	Found	%R	
Iodide	1.0	1.1	109.4	90-110

FORM II INORGANIC-1

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: Pace Analytical - Indiana SDG No. : 50376610 Contract: L2434679

Initial Calibration Verification Source: 371401

Continuing Calibration Verification Source: 387137

Concentration Units: mg/L Instrument ID: 50IC07

	Initial Calibration Verification				Continuing Calibration Verification			
	07/06/2024 13:37				07/06/2024 17:00			Control Limit
Analyte	True	Found	%R	Control Limit	True	Found	%R	
Iodide	5.0	4.6	92.0	90-110	1.0	1.1	109.2	90-110

FORM III INORGANIC-1

BLANKS

Lab Name: Pace Analytical - Indiana SDG No. : 50376610 Contract : L2434679

Method Blank Matrix: Water Instrument ID: 50IC07

Method Blank Concentration Units: mg/L

Analyte	Initial Calibration Blank (mg/L)		Continuing Calibration Blank (mg/L)						Method Blank	
	06/28/2024 06:32	C	07/05/2024 17:20	C	07/05/2024 21:21	C	07/06/2024 00:37	C	3651992	C
Iodide	0.091	U	0.091	U	0.091	U	0.091	U	ND	U

FORM III INORGANIC-1

BLANKS

Lab Name: Pace Analytical - Indiana SDG No. : 50376610 Contract : L2434679

Method Blank Matrix: Instrument ID: 50IC07

Method Blank Concentration Units:

Analyte	Initial Calibration Blank (mg/L)		Continuing Calibration Blank (mg/L)					
	07/06/2024 13:58	C	07/06/2024 17:20	C		C		C
Iodide	0.091	U	0.091	U				

SAMPLE NO.

3655427MS

FORM V INORGANIC-1

MATRIX SPIKE SAMPLE RECOVERY

Lab Name: Pace Analytical - Indiana SDG No. : 50376610 Contract: L2434679

Matrix: Water Basis: Wet Parent Sample ID: 50376768001

Percent Moisture:

Analyte	Units	Control Limit %R	Spiked Sample Result (SSR)	Sample Result (SR)	Spike Added (SA)	%R
Iodide	mg/L	80-120	5.8	ND	5.0	115

SAMPLE NO.

3655428MSD

FORM V INORGANIC-2

MATRIX SPIKE SAMPLE RECOVERY

Lab Name: Pace Analytical - Indiana SDG No. : 50376610 Contract: L2434679

Matrix: Water Basis: Wet Parent Sample ID: 50376768001

Percent Moisture:

Analyte	Units	Control Limit %R	Spiked Sample Result (SSR)	Sample Result (SR)	Spike Added (SA)	%R
Iodide	mg/L	80-120	5.7	ND	5.0	113

SAMPLE NO.

3655428MSD

FORM VI INORGANIC-1
DUPLICATES

Lab Name: Pace Analytical - Indiana SDG No. : 50376610 Contract: L2434679

Matrix: Water Concentration Units: mg/L

Percent Moisture: Basis: Wet

Analyte	RPD Control Limit	Sample	Duplicate	RPD
Iodide	15	5.8	5.7	2

SAMPLE NO.

3651993LCS

FORM VII INORGANIC-1
LABORATORY CONTROL SAMPLE

Lab Name: Pace Analytical - Indiana SDG No. : 50376610 Contract: L2434679

Matrix: Water

Analyte	Units	True	Found	%R	Limits	
Iodide	mg/L	5.0	5.7	114	80	120

FORM XII INORGANIC-1
PREPARATION LOG

Lab Name: Pace Analytical - Indiana SDG No. : 50376610 Contract: L2434679

Preparation Method: EPA 9056 Batch: GCSV 56659

Lab Sample ID	Sample Name	Preparation Date	Initial Volume (mL)	Final Volume (mL)
3651992	3651992BLANK	07/05/2024	10	10
3651993	3651993LCS	07/05/2024	10	10
3655427	3655427MS	07/06/2024	10	10
3655428	3655428MSD	07/06/2024	10	10
50376610001	MW-3A	07/05/2024	10	10
50376610002	MW-6A	07/05/2024	10	10
50376610003	MW-6B	07/05/2024	10	10
50376610004	MW-6C	07/06/2024	10	10
50376610005	MW-7A	07/05/2024	10	10
50376610006	MW-7B	07/05/2024	10	10
50376610007	MW-7C	07/05/2024	10	10
50376610008	MW-8A	07/05/2024	10	10
50376610009	MW-8B	07/05/2024	10	10
50376610010	MW-9B	07/05/2024	10	10
50376610011	DUP	07/05/2024	10	10
50376610012	MW-8B2	07/05/2024	10	10

FORM XIII INORGANIC-1
ANALYSIS RUN LOG

Lab Name: Pace Analytical - Indiana SDG No. : 50376610 Contract: L2434679

Instrument ID: 50IC07 Analysis Method: EPA 9056

Start Date: 06/28/2024 04:00 End Date: 07/06/2024 03:11

Sample Name	Lab Sample ID	D/F	Date	Time	iodi
25235788CAL0	25235788CAL0	1	06/28/2024	04:00	X
25235789CAL1	25235789CAL1	1	06/28/2024	04:21	X
25235790CAL2	25235790CAL2	1	06/28/2024	04:43	X
25235791CAL3	25235791CAL3	1	06/28/2024	05:05	X
25235792CAL4	25235792CAL4	1	06/28/2024	05:27	X
25235793CAL5	25235793CAL5	1	06/28/2024	05:48	X
25235794ICV	25235794ICV	1	06/28/2024	06:10	X
25235795ICB	25235795ICB	1	06/28/2024	06:32	X
25265249CCV	25265249CCV	1	07/05/2024	16:56	X
25265250CCB	25265250CCB	1	07/05/2024	17:20	X
3651992BLANK	3651992	1	07/05/2024	17:42	X
3651993LCS	3651993	1	07/05/2024	18:04	X
50376768001	50376768001	1	07/05/2024	18:26	X
MW-3A	50376610001	1	07/05/2024	18:48	X
MW-6A	50376610002	1	07/05/2024	19:09	X
MW-6B	50376610003	1	07/05/2024	19:31	X
MW-7A	50376610005	1	07/05/2024	20:15	X
MW-7B	50376610006	1	07/05/2024	20:37	X
25265251CCV	25265251CCV	1	07/05/2024	20:59	X
25265252CCB	25265252CCB	1	07/05/2024	21:21	X
MW-7C	50376610007	1	07/05/2024	21:42	X
MW-8A	50376610008	1	07/05/2024	22:04	X
MW-8B	50376610009	1	07/05/2024	22:26	X
MW-9B	50376610010	1	07/05/2024	22:48	X
DUP	50376610011	1	07/05/2024	23:10	X
MW-8B2	50376610012	1	07/05/2024	23:32	X
25265271CCV	25265271CCV	1	07/06/2024	00:16	X
25265254CCB	25265254CCB	1	07/06/2024	00:37	X
3655427MS	3655427	1	07/06/2024	02:49	X
3655428MSD	3655428	1	07/06/2024	03:11	X

FORM XIII INORGANIC-1
ANALYSIS RUN LOG

Lab Name: Pace Analytical - Indiana SDG No. : 50376610 Contract: L2434679

Instrument ID: 50IC07 Analysis Method: EPA 9056

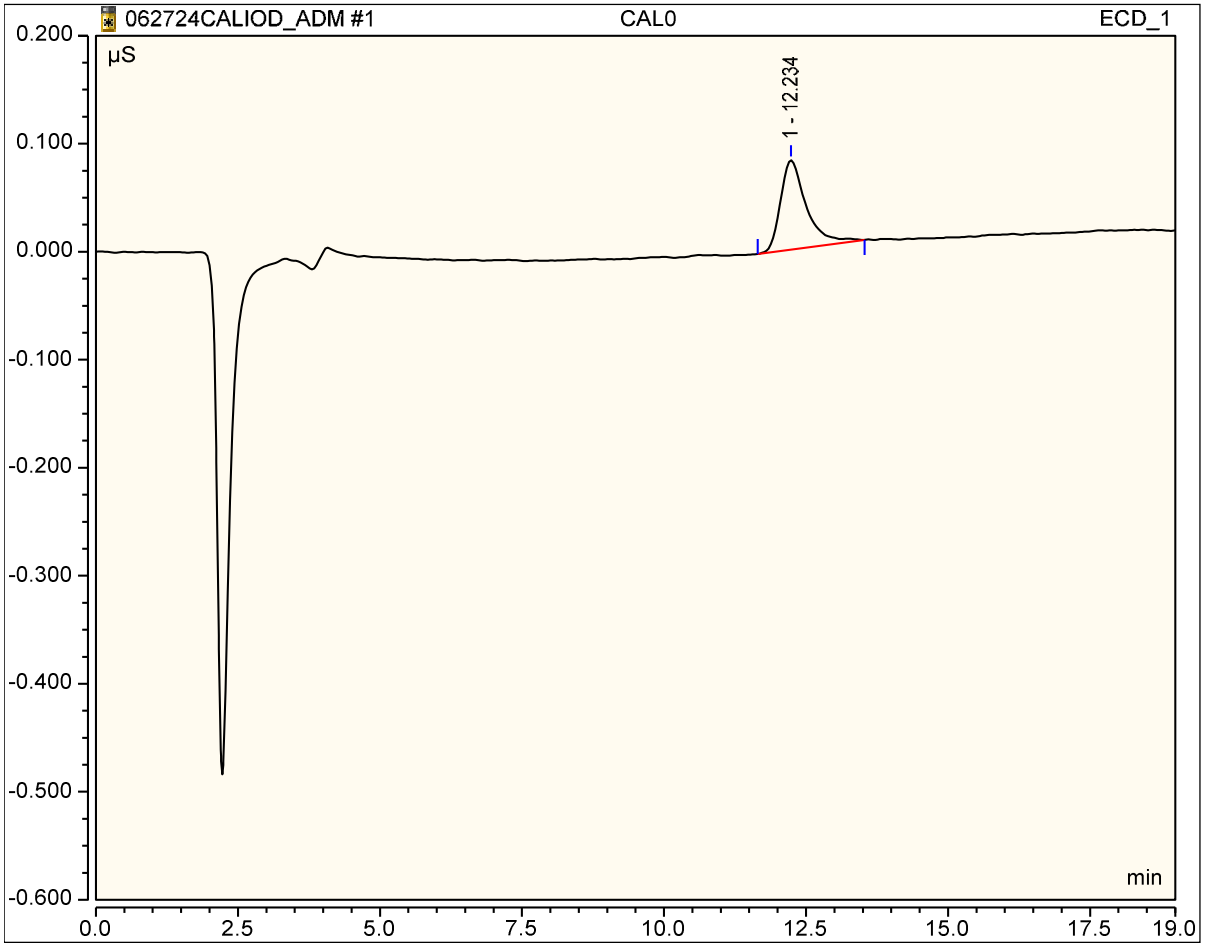
Start Date: 07/06/2024 11:31 End Date: 07/06/2024 17:20

Sample Name	Lab Sample ID	D/F	Date	Time	iodi
25266202CAL0	25266202CAL0	1	07/06/2024	11:31	X
25266203CAL1	25266203CAL1	1	07/06/2024	11:52	X
25266204CAL2	25266204CAL2	1	07/06/2024	12:13	X
25266205CAL3	25266205CAL3	1	07/06/2024	12:34	X
25266206CAL4	25266206CAL4	1	07/06/2024	12:55	X
25266207CAL5	25266207CAL5	1	07/06/2024	13:16	X
25266208ICV	25266208ICV	1	07/06/2024	13:37	X
25266209ICB	25266209ICB	1	07/06/2024	13:58	X
MW-6C	50376610004	1	07/06/2024	14:41	X
25266211CCV	25266211CCV	1	07/06/2024	17:00	X
25266212CCB	25266212CCB	1	07/06/2024	17:20	X

CAL0
386549

Sample Name:	**CAL0**	*Injection Volume (uL):*	**1000.00**
Vial Number:	*33*	*Channel:*	**ECD_1**
Sample Type:	*Calibration Standard*	*Calibration:*	**06/28/24 08:35**
Control Program:	*IODIDE*	*Eluent Stock:*	**386320**
Quantif. Method:	*CAL_IODIDE07*	*Dilution Factor*	**1.0000**
Recording Time:	**06/28/2024 04:00**	*Sample Weight:*	**1.0000**
Run Time (min):	*19.00*	*System Name:*	**Aquion_IC**

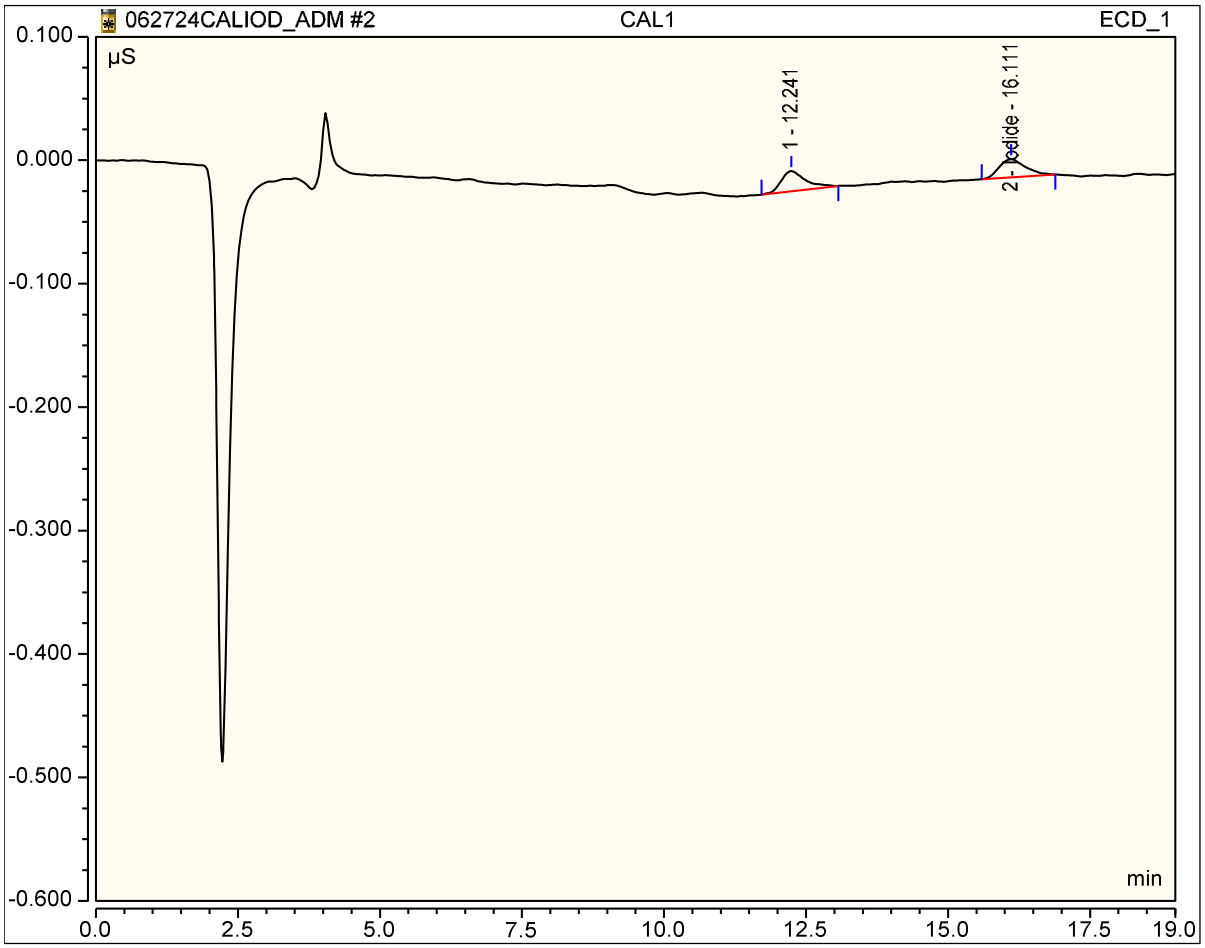
No.	Retention Time min	Name	Amount n.a.	Area µS*min	Height µS	Type



CAL1
386548

Sample Name:	**CAL1**	*Injection Volume (uL):*	**1000.00**
Vial Number:	*34*	*Channel:*	**ECD_1**
Sample Type:	*Calibration Standard*	*Calibration:*	**06/28/24 08:35**
Control Program:	*IODIDE*	*Eluent Stock:*	**386320**
Quantif. Method:	*CAL_IODIDE07*	*Dilution Factor*	**1.0000**
Recording Time:	**06/28/2024 04:21**	*Sample Weight:*	**1.0000**
Run Time (min):	*19.00*	*System Name:*	**Aquion_IC**

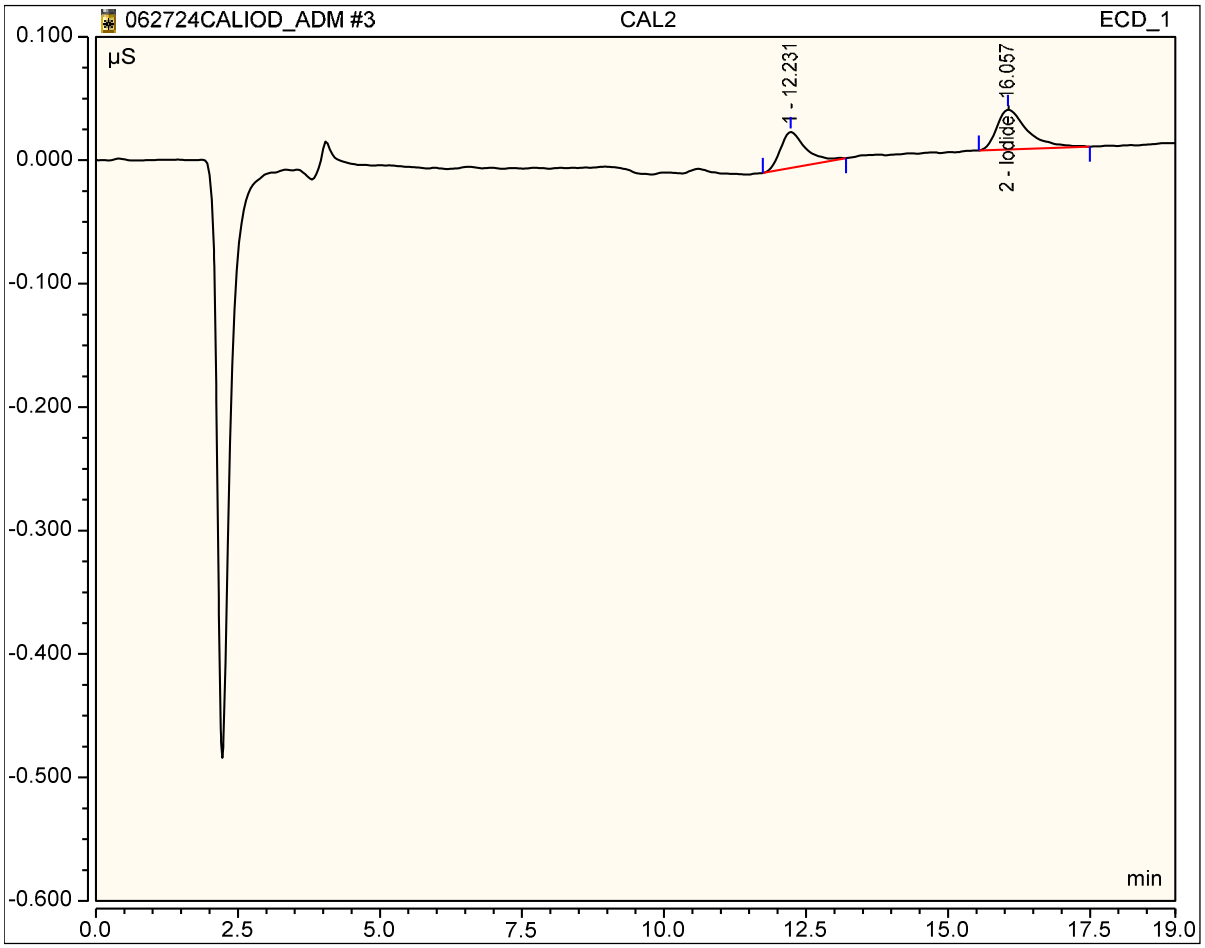
No.	Retention Time min	Name	Amount mg/L	Area µS*min	Height µS	Type
2	16.11	**Iodide**	0.4891	0.008	0.015	BMB



CAL2
386550

Sample Name:	**CAL2**	*Injection Volume (uL):*	**1000.00**
Vial Number:	*35*	*Channel:*	**ECD_1**
Sample Type:	*Calibration Standard*	*Calibration:*	**06/28/24 08:35**
Control Program:	*IODIDE*	*Eluent Stock:*	**386320**
Quantif. Method:	*CAL_IODIDE07*	*Dilution Factor*	**1.0000**
Recording Time:	**06/28/2024 04:43**	*Sample Weight:*	**1.0000**
Run Time (min):	*19.00*	*System Name:*	**Aquion_IC**

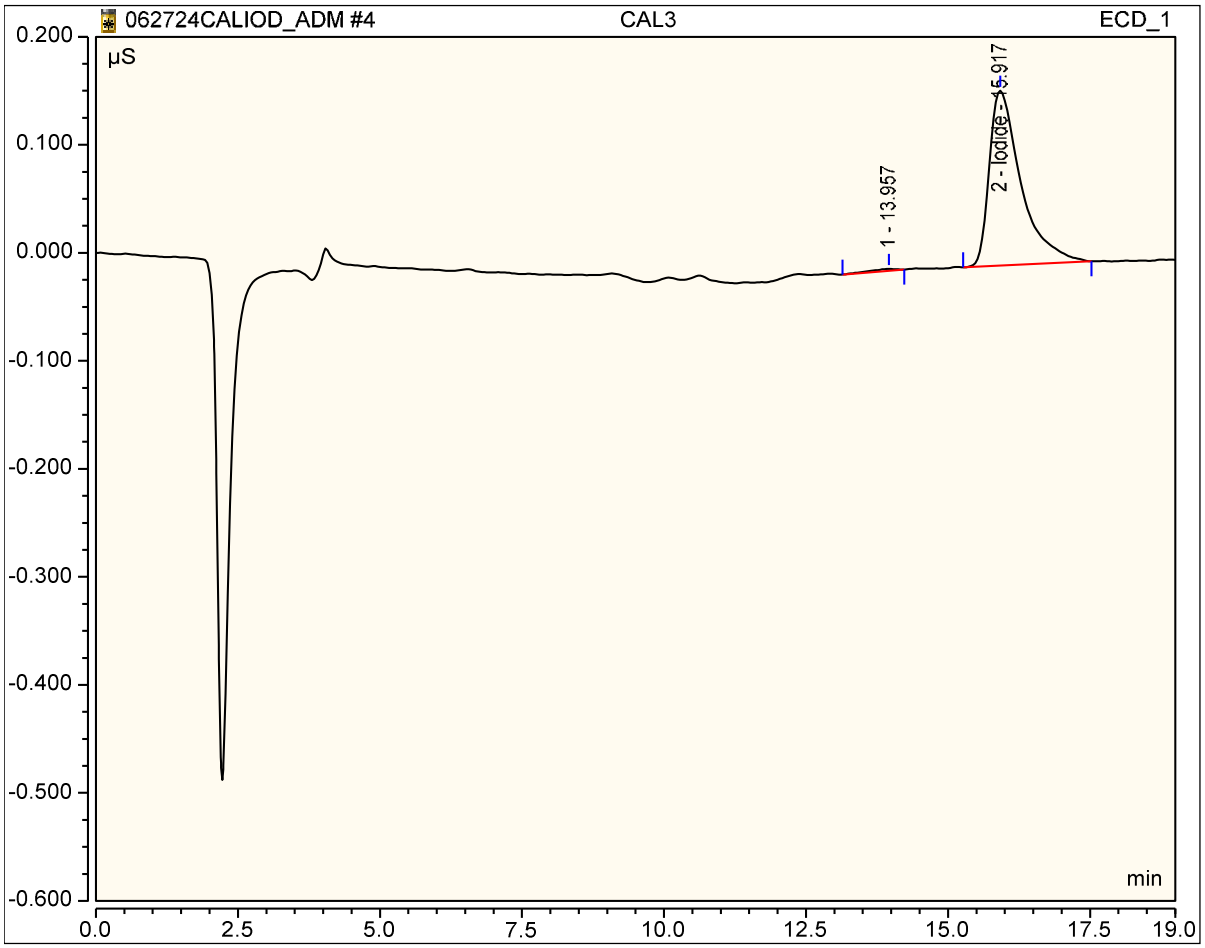
No.	Retention Time min	Name	Amount mg/L	Area µS*min	Height µS	Type
2	16.06	**Iodide**	1.0476	0.020	0.032	BMB



CAL3
386551

Sample Name:	**CAL3**	*Injection Volume (uL):*	**1000.00**
Vial Number:	*36*	*Channel:*	**ECD_1**
Sample Type:	*Calibration Standard*	*Calibration:*	**06/28/24 08:35**
Control Program:	*IODIDE*	*Eluent Stock:*	**386320**
Quantif. Method:	*CAL_IODIDE07*	*Dilution Factor*	**1.0000**
Recording Time:	**06/28/2024 05:05**	*Sample Weight:*	**1.0000**
Run Time (min):	*19.00*	*System Name:*	**Aquion_IC**

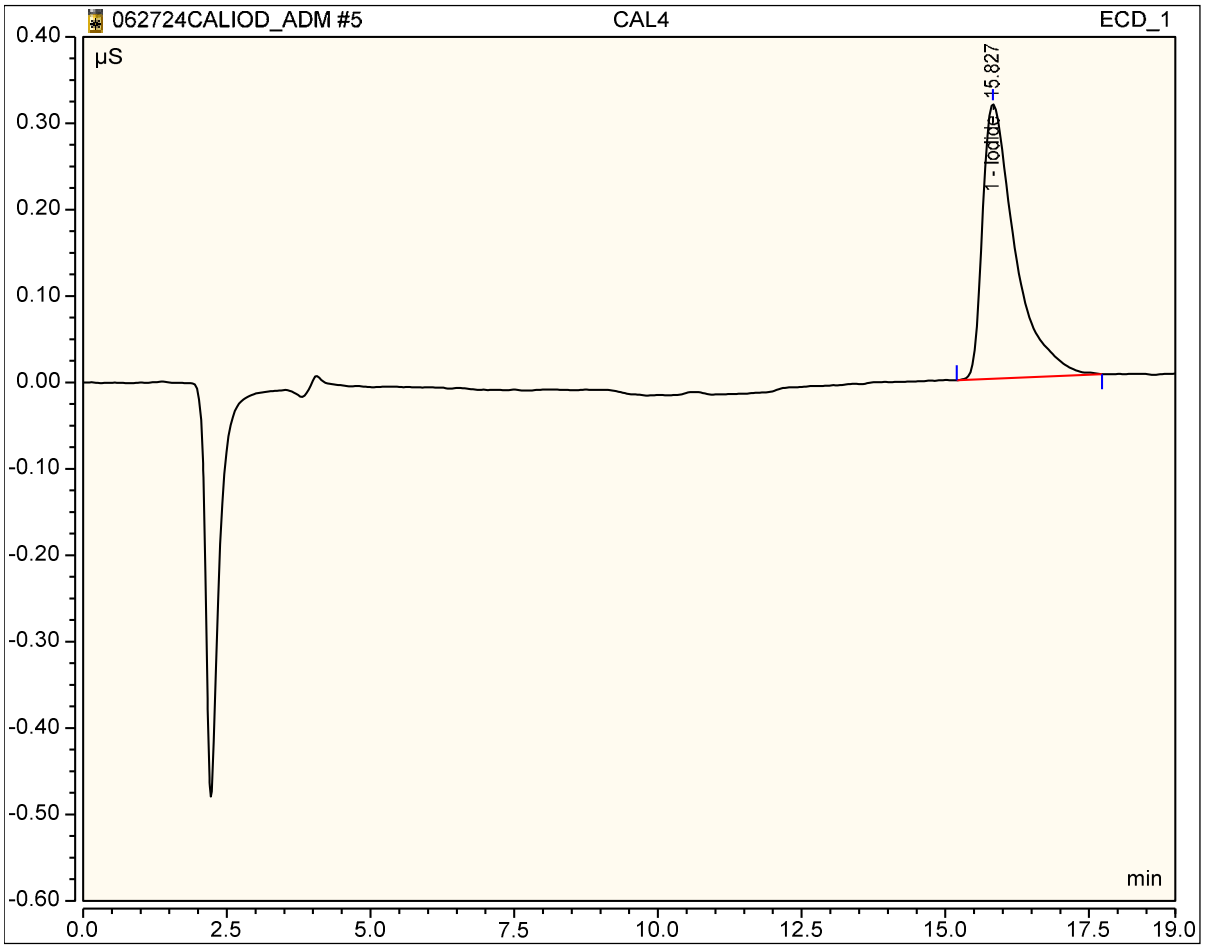
No.	Retention Time min	Name	Amount mg/L	Area µS*min	Height µS	Type
2	15.92	**Iodide**	4.9402	0.105	0.162	BMB



CAL4
386552

Sample Name:	**CAL4**	*Injection Volume (uL):*	**1000.00**
Vial Number:	*37*	*Channel:*	**ECD_1**
Sample Type:	*Calibration Standard*	*Calibration:*	**06/28/24 08:35**
Control Program:	*IODIDE*	*Eluent Stock:*	**386320**
Quantif. Method:	*CAL_IODIDE07*	*Dilution Factor*	**1.0000**
Recording Time:	**06/28/2024 05:27**	*Sample Weight:*	**1.0000**
Run Time (min):	*19.00*	*System Name:*	**Aquion_IC**

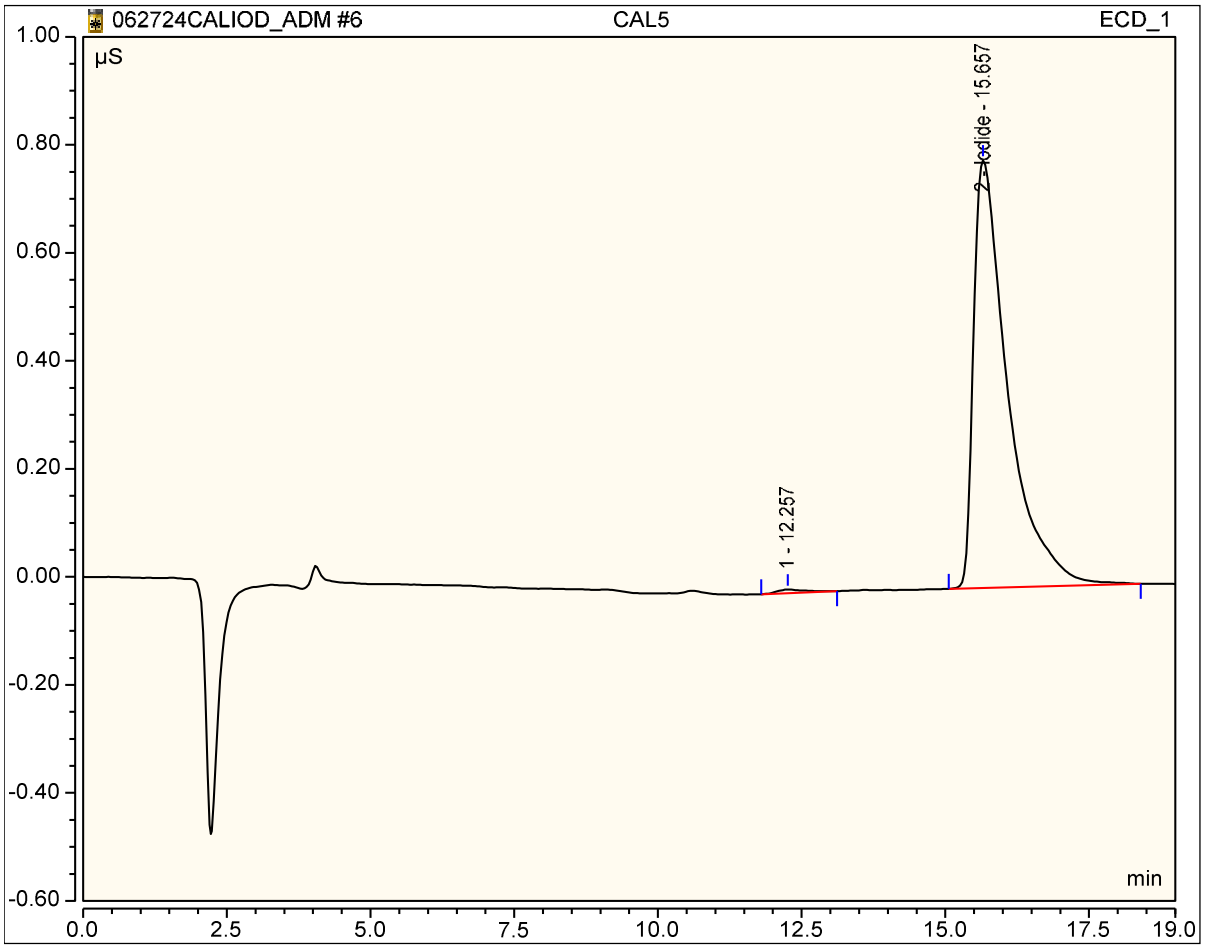
No.	Retention Time min	Name	Amount mg/L	Area µS*min	Height µS	Type
1	15.83	**Iodide**	9.7537	0.209	0.318	BMB



CAL5
386553

Sample Name:	**CAL5**	*Injection Volume (uL):*	**1000.00**
Vial Number:	*38*	*Channel:*	**ECD_1**
Sample Type:	*Calibration Standard*	*Calibration:*	**06/28/24 08:35**
Control Program:	*IODIDE*	*Eluent Stock:*	**386320**
Quantif. Method:	*CAL_IODIDE07*	*Dilution Factor*	**1.0000**
Recording Time:	**06/28/2024 05:48**	*Sample Weight:*	**1.0000**
Run Time (min):	*19.00*	*System Name:*	**Aquion_IC**

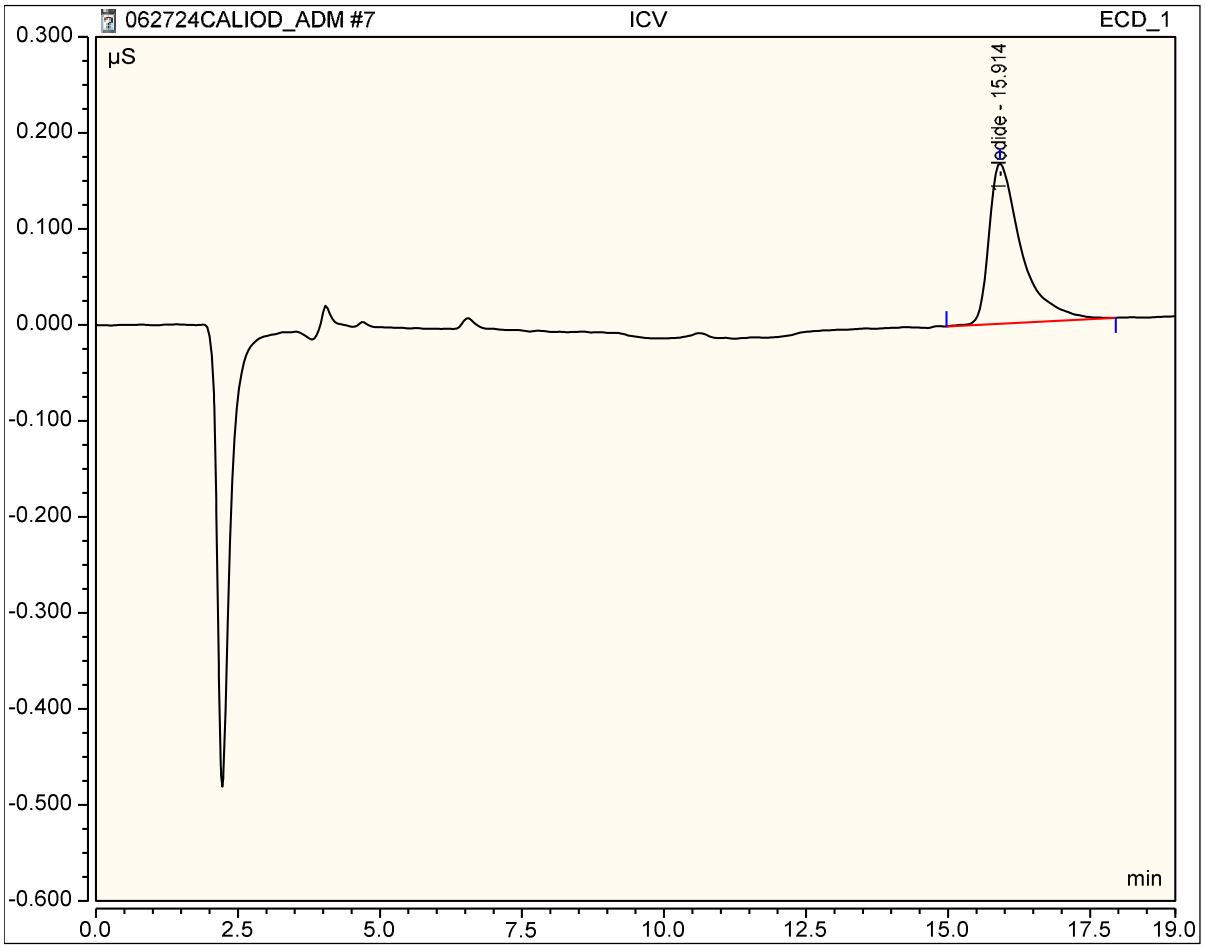
No.	Retention Time min	Name	Amount mg/L	Area µS*min	Height µS	Type
2	15.66	**Iodide**	25.2694	0.546	0.792	BMB



ICV
371401

Sample Name:	**ICV**	*Injection Volume (uL):*	**1000.00**
Vial Number:	*39*	*Channel:*	**ECD_1**
Sample Type:	*Unknown*	*Calibration:*	**06/28/24 08:35**
Control Program:	*IODIDE*	*Eluent Stock:*	**386320**
Quantif. Method:	*CAL_IODIDE07*	*Dilution Factor*	**1.0000**
Recording Time:	**06/28/2024 06:10**	*Sample Weight:*	**1.0000**
Run Time (min):	*19.00*	*System Name:*	**Aquion_IC**

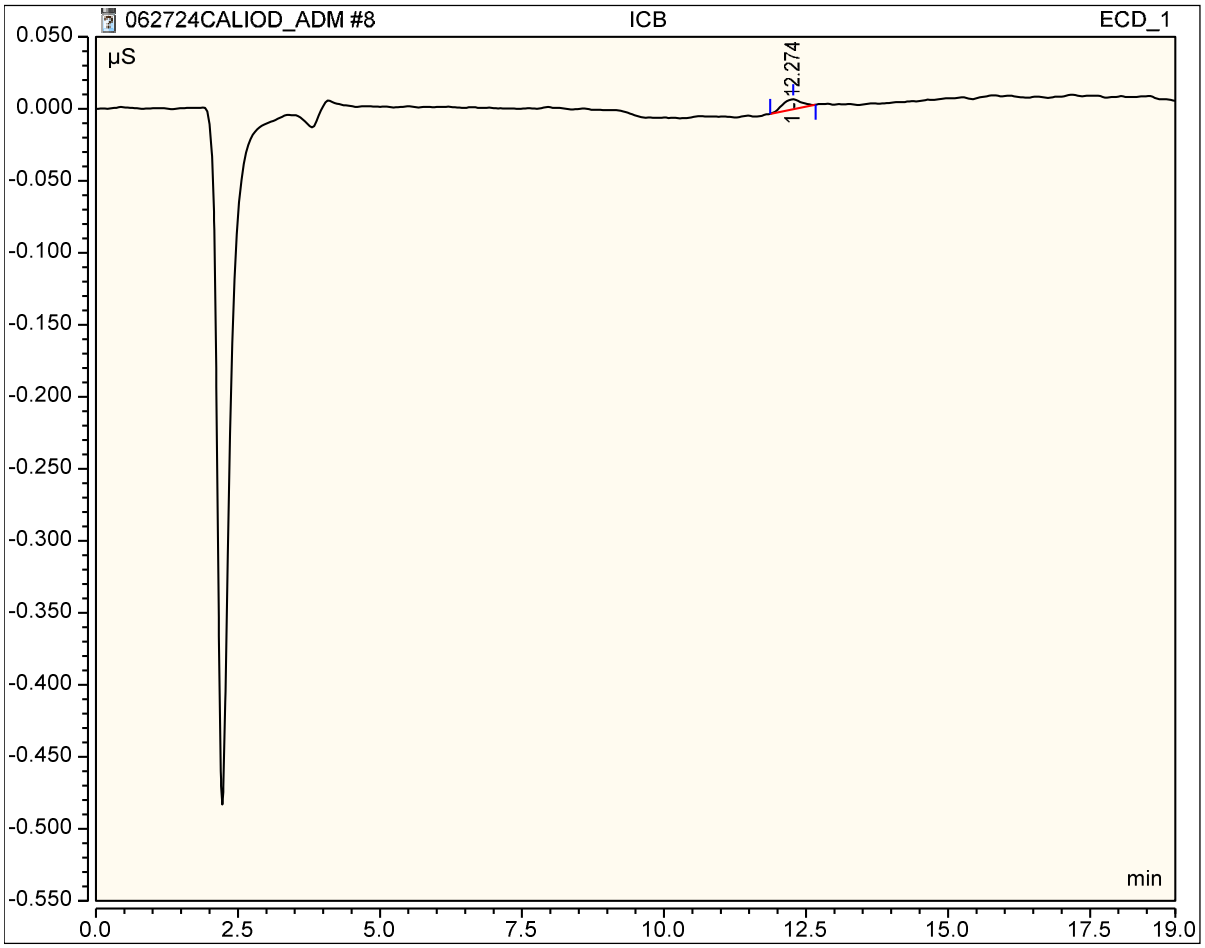
No.	Retention Time min	Name	Amount mg/L	Area µS*min	Height µS	Type
1	15.91	**Iodide**	5.2062	0.110	0.167	BMB



ICB
340111

Sample Name:	**ICB**	*Injection Volume (uL):*	**1000.00**
Vial Number:	*40*	*Channel:*	**ECD_1**
Sample Type:	*Unknown*	*Calibration:*	**06/28/24 08:35**
Control Program:	*IODIDE*	*Eluent Stock:*	**386320**
Quantif. Method:	*CAL_IODIDE07*	*Dilution Factor*	**1.0000**
Recording Time:	**06/28/2024 06:32**	*Sample Weight:*	**1.0000**
Run Time (min):	*19.00*	*System Name:*	**Aquion_IC**

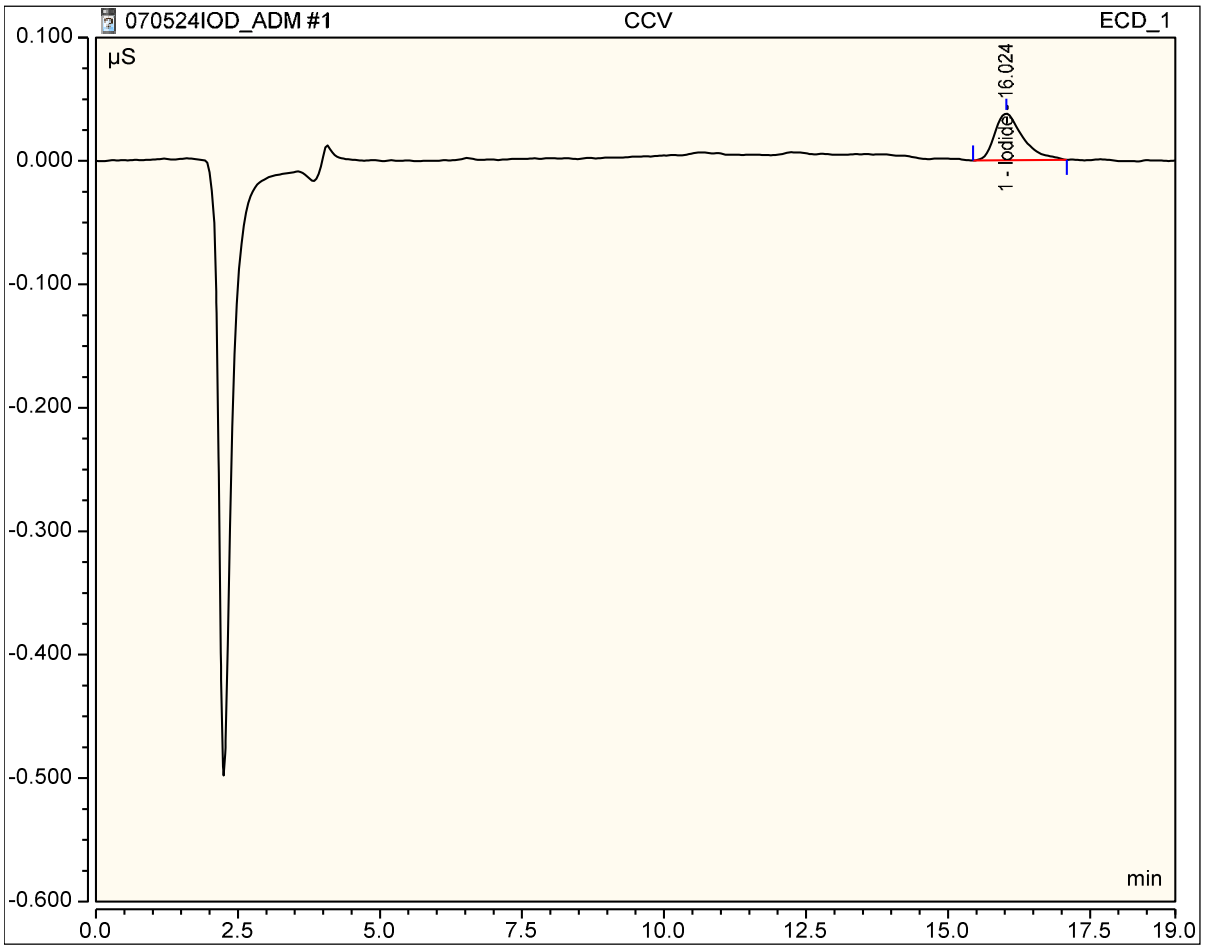
No.	Retention Time min	Name	Amount n.a.	Area µS*min	Height µS	Type



CCV
387137

Sample Name:	**CCV**	Injection Volume (uL):	**1000.00**
Vial Number:	22	Channel:	**ECD_1**
Sample Type:	Unknown	Calibration:	**06/28/24 08:35**
Control ro! ram:	**I" # I# $**	$luent Stock:	**386320**
%uanti&(etho) :	C* L+I" # I# $, -	# ilution . actor	**1.0000**
/ ecor) in! Time:	**07/05/2024 16:56**	Sample 0 ei! ht:	**1.0000**
/ un Time (min):	**12', ,**	Sy3tem Name:	**Aquion_IC**

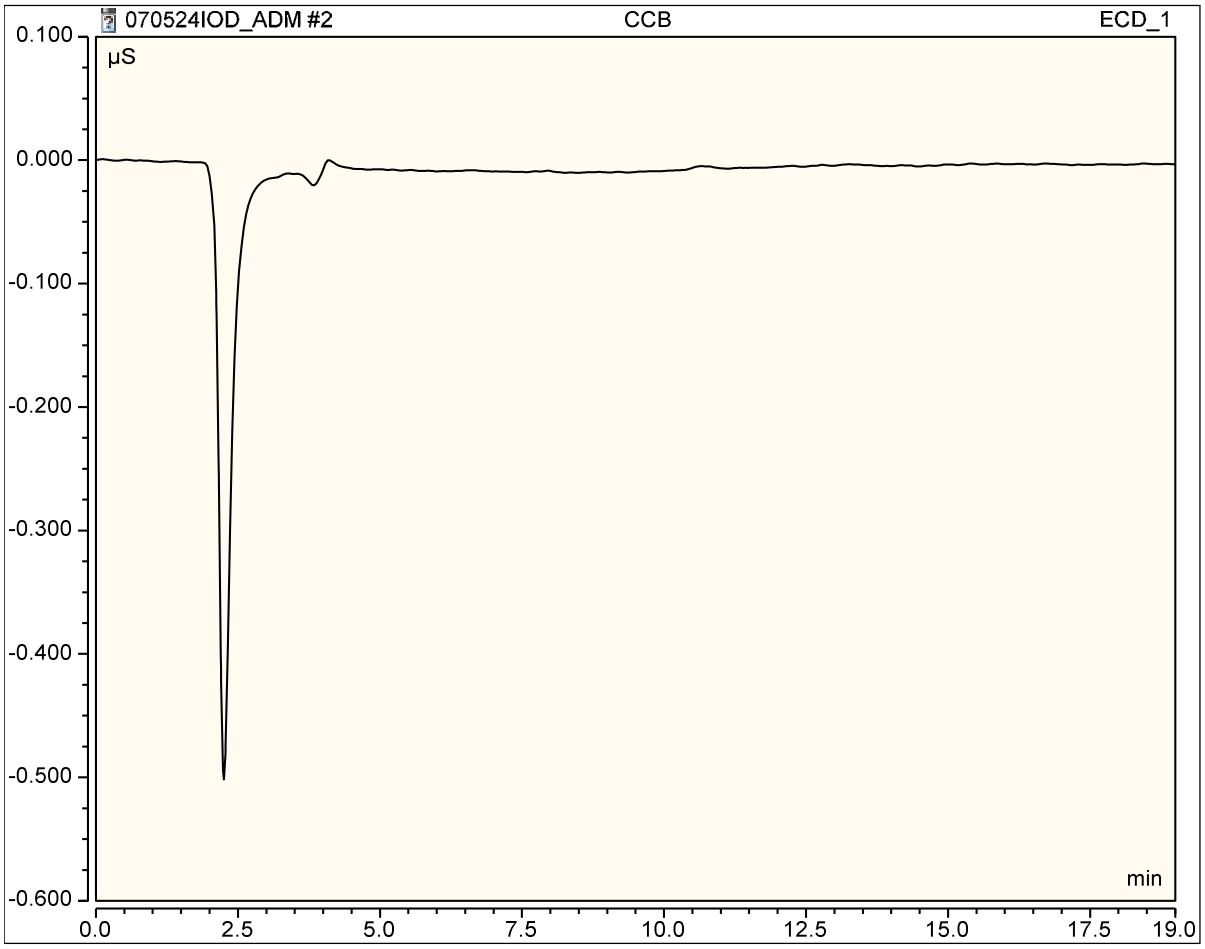
No.	Retention Time min	Name	Amount mg/L	Area µS*min	Height µS	Type
1	16.02	**Iodide**	1.1221	0.022	0.038	BMB



CCB
340111

Sample Name:	**CCB**	Injection Volume (uL):	**1000.00**
Vial Number:	***4***	Channel:	**ECD_1**
Sample Type:	Unknown	Calibration:	**06/28/24 08:35**
Control ro*!* ram:	**I" # I#$**	**$**luent Stock:	**386320**
%uanti**&(** etho**)** :	**C* L+I" # I#$, -**	**#** ilution **.** actor	**1.0000**
/ ecor**)** in*!* Time:	**07/05/2024 17:20**	Sample ***0*** ei*!* ht:	**1.0000**
/ un Time (min):	***12', ,***	Sy***3***tem Name:	**Aquion_IC**

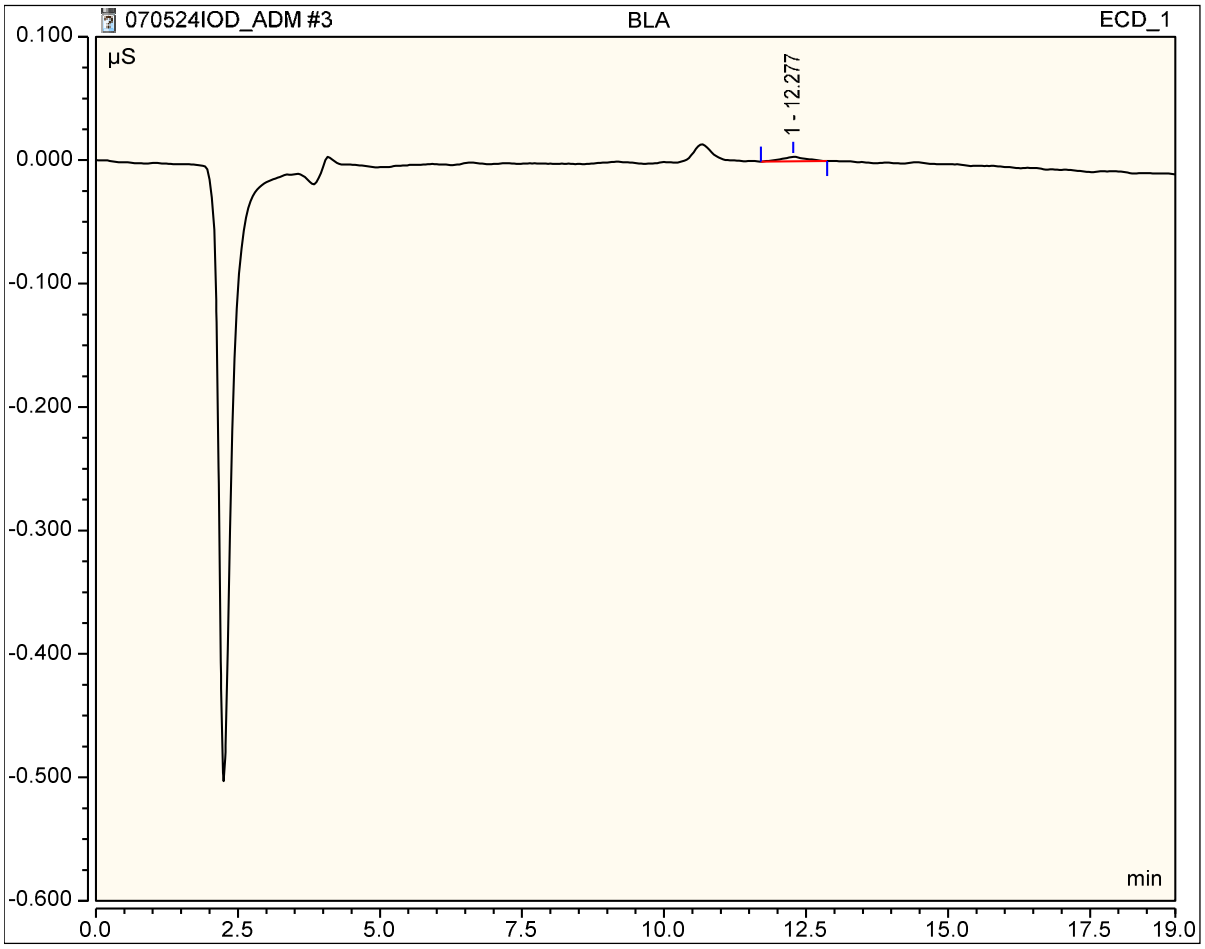
No.	Retention Time min	Name	Amount n.a.	Area µS*min	Height µS	Type



BLA
340111

Sample Name:	**BLA**	Injection Volume (uL):	**1000.00**
Vial Number:	***5***	Channel:	**ECD_1**
Sample Type:	Unknown	Calibration:	**06/28/24 08:35**
Control ro*!* ram:	**I" # I#$**	**$**luent Stock:	**386320**
%uanti**&(** etho**)** :	C* L+I" # I#**$, -**	**#** ilution **.** actor	**1.0000**
/ ecor**)** in*!* Time:	**07/05/2024 17:42**	Sample ***0*** ei*!* ht:	**1.0000**
/ un Time (min):	***12', ,***	Sy***3***tem Name:	**Aquion_IC**

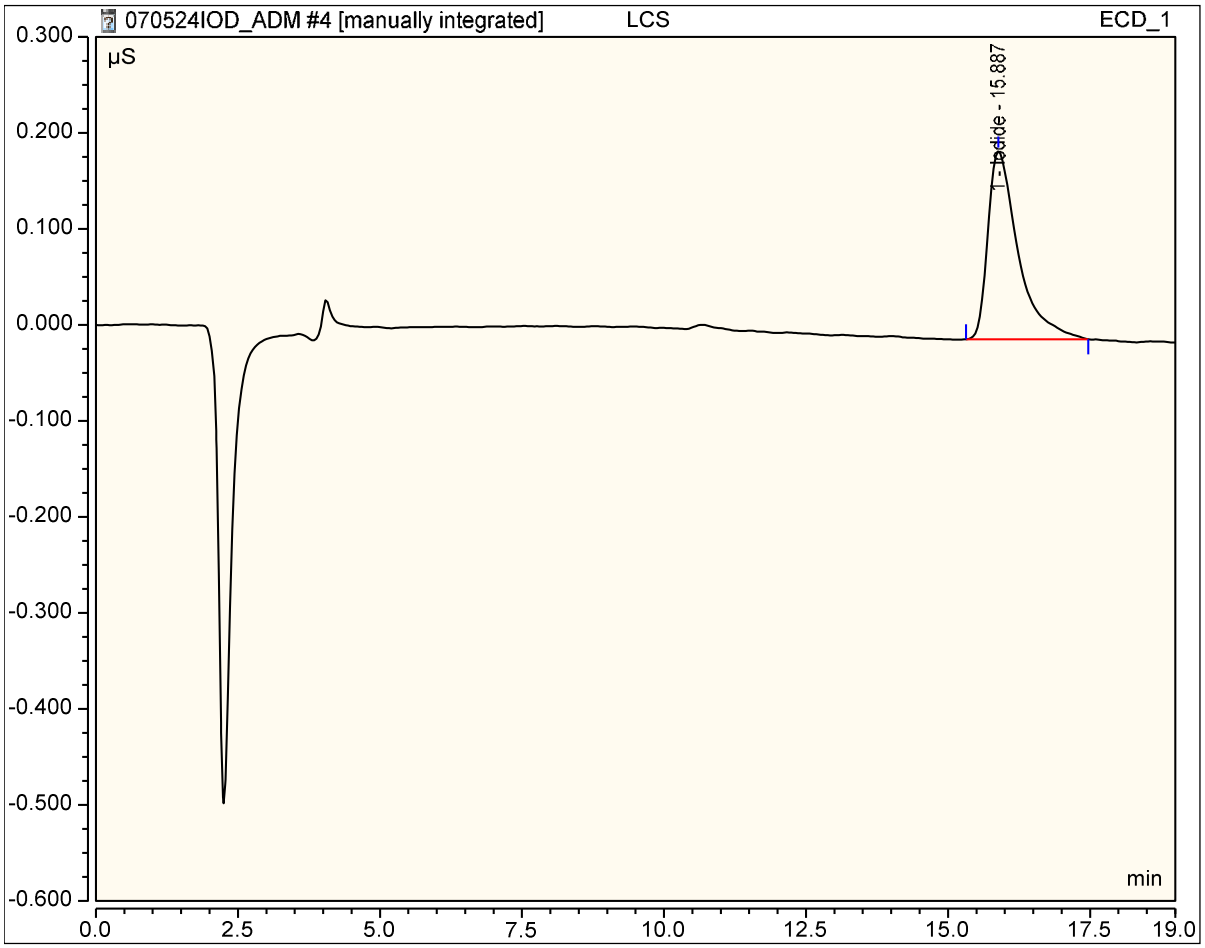
No.	Retention Time min	Name	Amount n.a.	Area µS*min	Height µS	Type



LCS
377680

Sample Name:	**LCS**	Injection Volume (uL):	**1000.00**
Vial Number:	***6***	Channel:	**ECD_1**
Sample Type:	Unknown	Calibration:	**06/28/24 08:35**
Control ro*!* ram:	**I" # I#$**	**$**luent Stock:	**386320**
%uanti**&(** etho**)** :	C* L+I" # I#**$, -**	**#** ilution **.** actor	**1.0000**
/ ecor**)** in*!* Time:	**07/05/2024 18:04**	Sample ***0*** ei*!* ht:	**1.0000**
/ un Time (min):	***12', ,***	Sy**3**tem Name:	**Aquion_IC**

No.	Retention Time min	Name	Amount mg/L	Area µS*min	Height µS	Type
1	15.89	**Iodide**	5.6812	0.121	0.196	BMB*



50376768001_56656

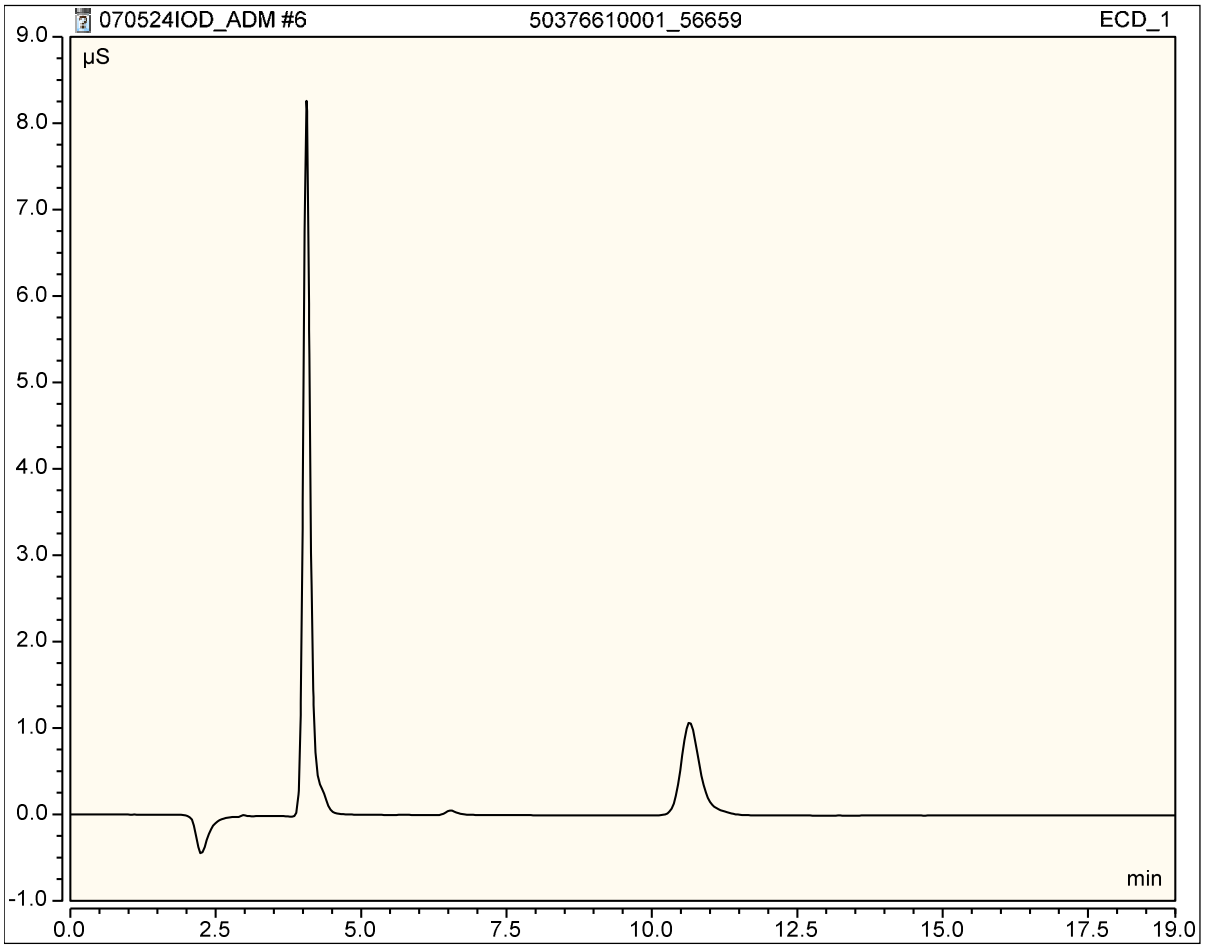
Sample Name:	**50376768001_56656**	Injection Volume (uL):	**1000.00**
Vial Number:	***7***	Channel:	**ECD_1**
Sample Type:	Unknown	Calibration:	**06/28/24 08:35**
Control ro*!* ram:	**I" # I#*$***	***$***luent Stock:	**386320**
%uanti***&(***etho***)*** :	C***** L**+**I" # I#***$*, -	**#** ilution **.** actor	**1.0000**
/ ecor***)*** in***!*** Time:	**07/05/2024 18:26**	Sample ***0*** ei***!*** ht:	**1.0000**
/ un Time (min):	***12', ,***	Sy***3***tem Name:	**Aquion_IC**

No.	Retention Time min	Name	Amount n.a.	Area µS*min	Height µS	Type

50376610001_56659

Sample Name:	**50376610001_56659**	Injection Volume (uL):	**1000.00**
Vial Number:	***8***	Channel:	**ECD_1**
Sample Type:	Unknown	Calibration:	**06/28/24 08:35**
Control ro*!* ram:	**I" # I#$**	**$**luent Stock:	**386320**
%uanti**&(** etho**)** :	**C* L+I" # I#$, -**	**#** ilution **.** actor	**1.0000**
/ ecor**)** in*!* Time:	**07/05/2024 18:48**	Sample ***0*** ei*!* ht:	**1.0000**
/ un Time (min):	***12', ,***	Sy***3***tem Name:	**Aquion_IC**

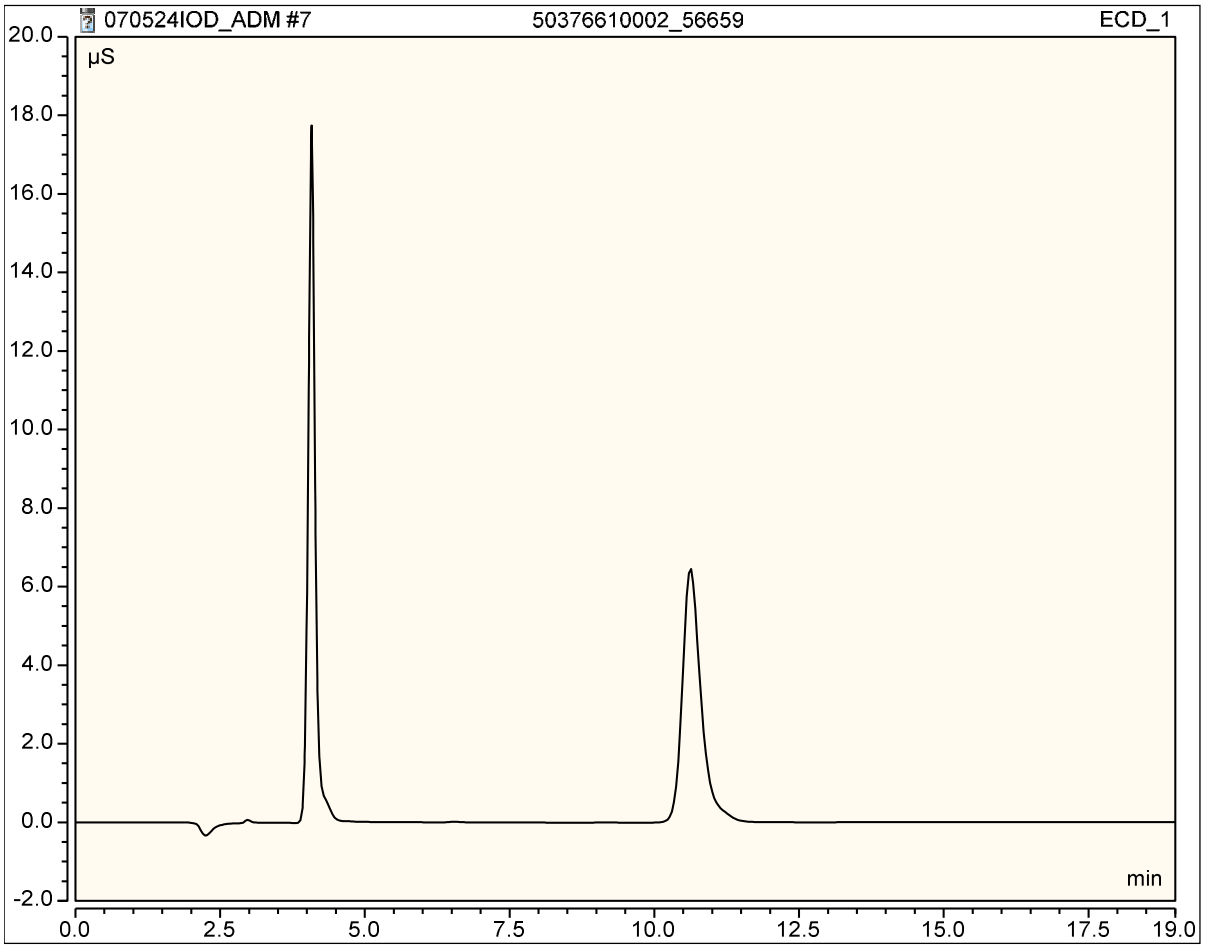
No.	Retention Time min	Name	Amount n.a.	Area µS*min	Height µS	Type



50376610002_56659

Sample Name:	**50376610002_56659**	Injection Volume (uL):	**1000.00**
Vial Number:	***2***	Channel:	**ECD_1**
Sample Type:	Unknown	Calibration:	**06/28/24 08:35**
Control ro*!* ram:	**I" # I#$**	**$**luent Stock:	**386320**
%uanti**&(** etho**)** :	C* L+I" # I#**$, -**	# ilution **.** actor	**1.0000**
/ ecor**)** in*!* Time:	**07/05/2024 19:09**	Sample ***0*** ei*!* ht:	**1.0000**
/ un Time (min):	***12', ,***	Sy**3**tem Name:	**Aquion_IC**

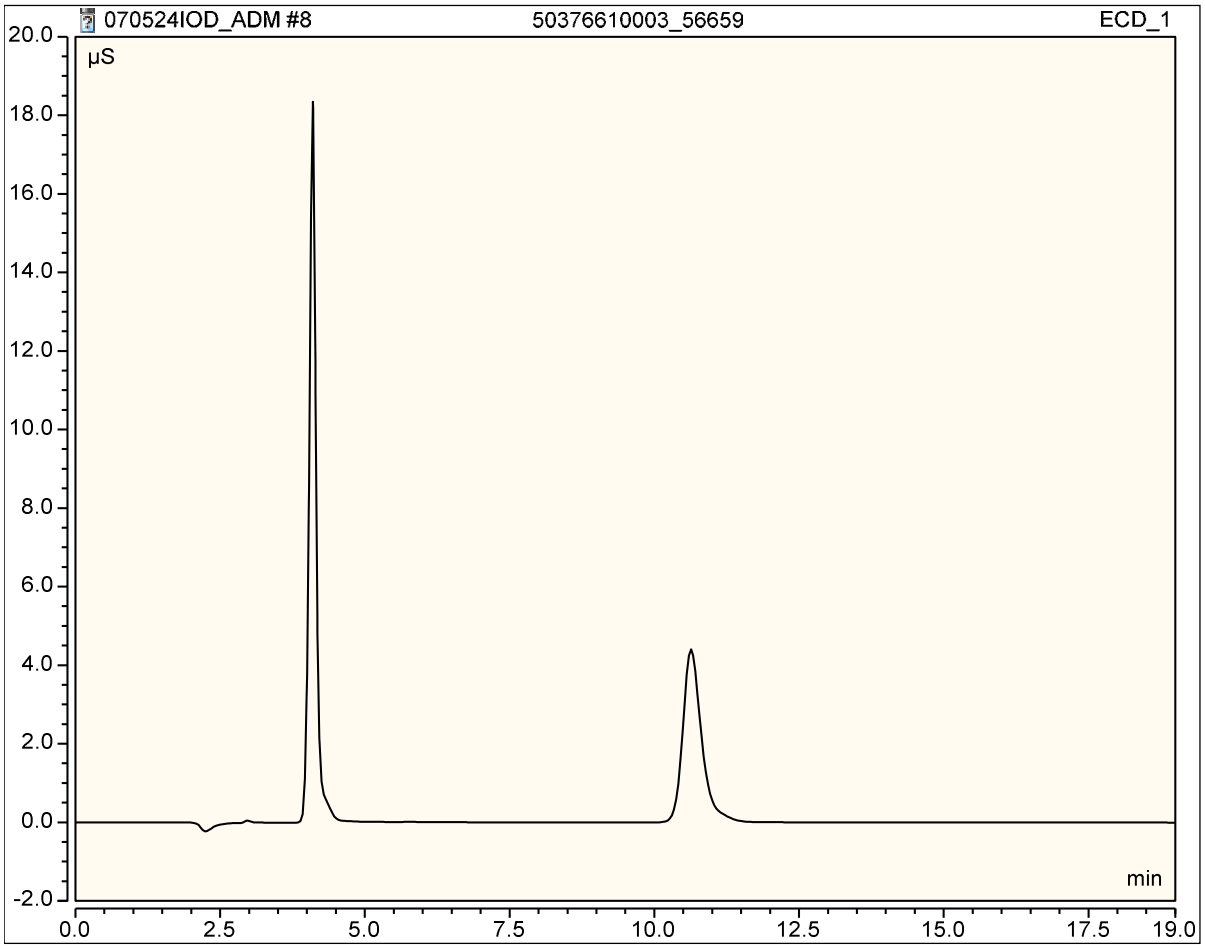
No.	Retention Time min	Name	Amount n.a.	Area µS*min	Height µS	Type



50376610003_56659

Sample Name:	**50376610003_56659**	Injection Volume (uL):	**1000.00**
Vial Number:	***1,***	Channel:	**ECD_1**
Sample Type:	Unknown	Calibration:	**06/28/24 08:35**
Control ro*!* ram:	**I" # I#$**	**$**luent Stock:	**386320**
%uanti**&(** etho**)** :	C* L+I" # I#**$, -**	# ilution **.** actor	**1.0000**
/ ecor**)** in*!* Time:	**07/05/2024 19:31**	Sample ***0*** ei*!* ht:	**1.0000**
/ un Time (min):	***12', ,***	Sy**3**tem Name:	**Aquion_IC**

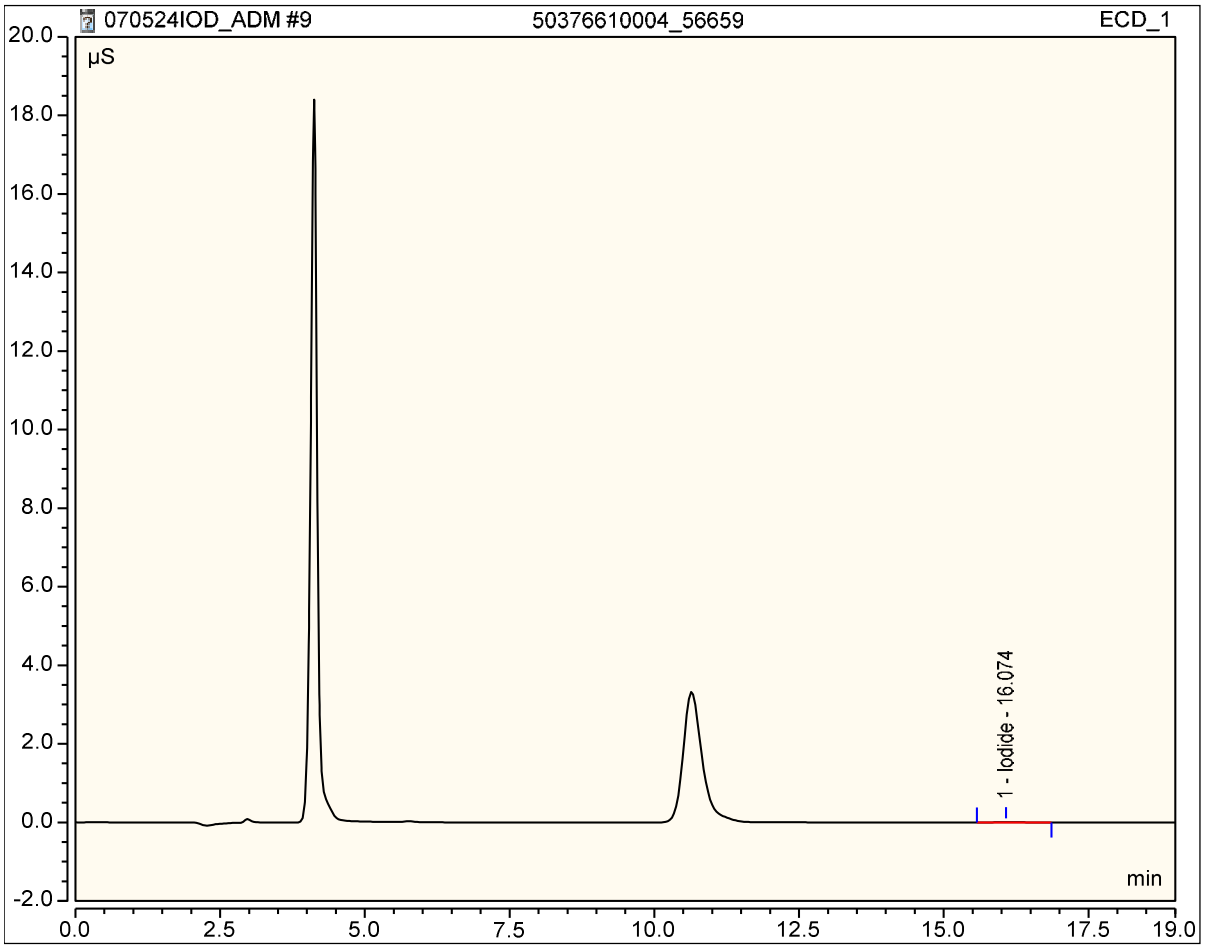
No.	Retention Time min	Name	Amount n.a.	Area µS*min	Height µS	Type



50376610004_56659

Sample Name:	**50376610004_56659**	Injection Volume (uL):	**1000.00**
Vial Number:	***11***	Channel:	**ECD_1**
Sample Type:	Unknown	Calibration:	**06/28/24 08:35**
Control ro*!* ram:	**I" # I#$**	**$**luent Stock:	**386320**
%uanti**&(** etho**)** :	C* L+I" # I#**$, -**	**#** ilution **.** actor	**1.0000**
/ ecor**)** in*!* Time:	**07/05/2024 19:53**	Sample ***0*** ei*!* ht:	**1.0000**
/ un Time (min):	***12', ,***	Sy**3**tem Name:	**Aquion_IC**

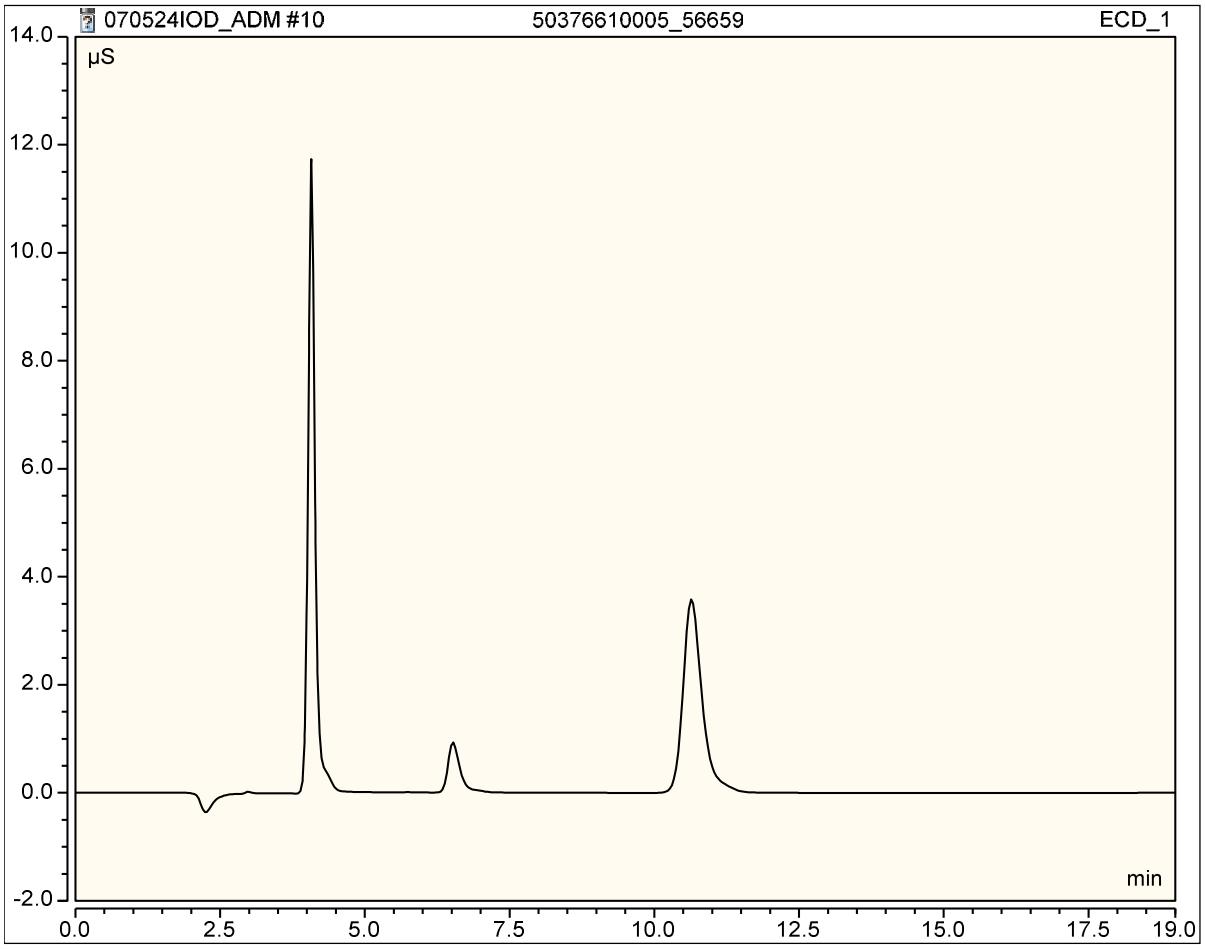
No.	Retention Time min	Name	Amount mg/L	Area µS*min	Height µS	Type
1	16.07	**Iodide**	0.3818	0.006	0.010	BMB



50376610005_56659

Sample Name:	**50376610005_56659**	Injection Volume (uL):	**1000.00**
Vial Number:	**12**	Channel:	**ECD_1**
Sample Type:	Unknown	Calibration:	**06/28/24 08:35**
Control ro! ram:	**I" # I# $**	$luent Stock:	**386320**
%uanti&(etho) :	**C* L+I" # I# $, -**	#ilution . actor	**1.0000**
/ ecor) in! Time:	**07/05/2024 20:15**	Sample 0 ei! ht:	**1.0000**
/ un Time (min):	**12', ,**	Sy3tem Name:	**Aquion_IC**

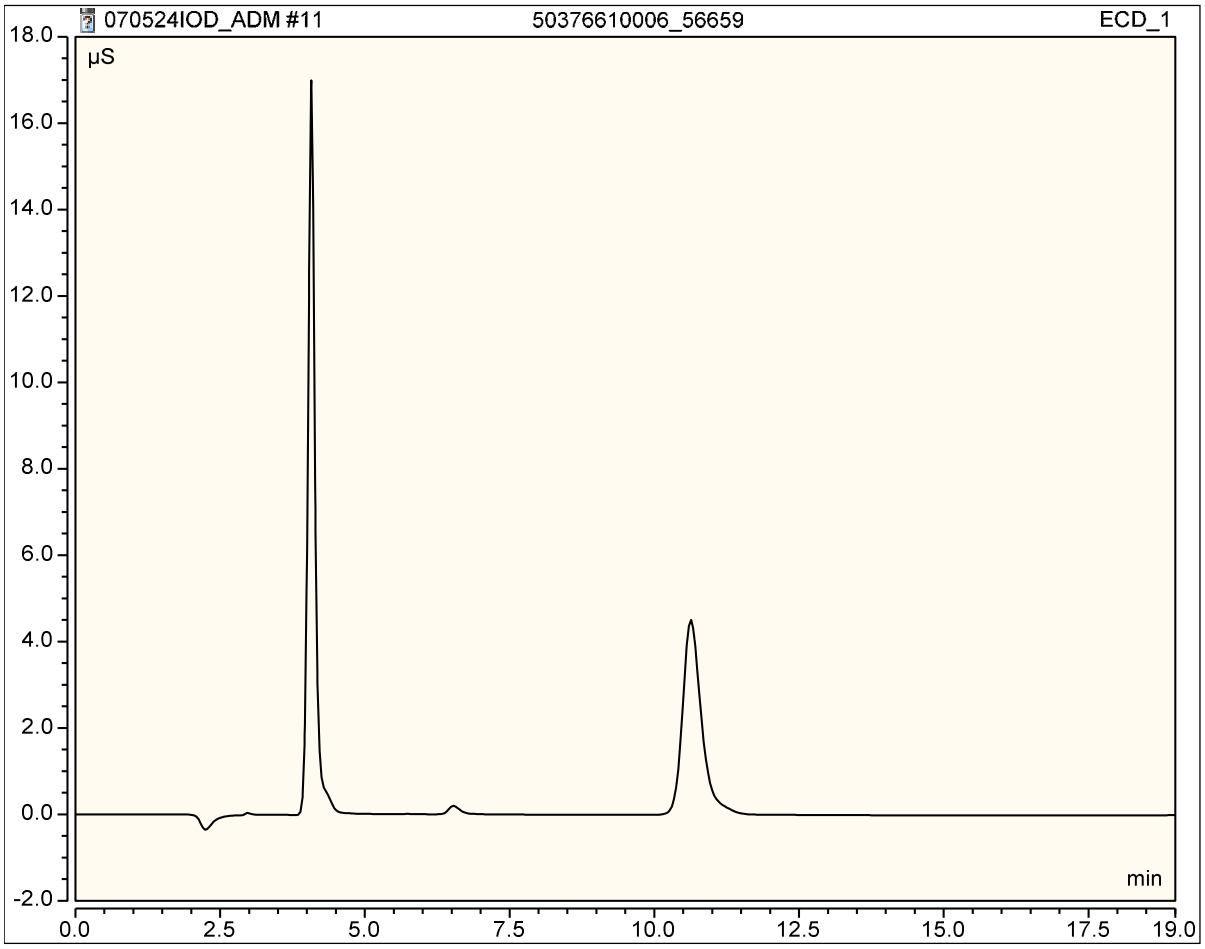
No.	Retention Time min	Name	Amount n.a.	Area µS*min	Height µS	Type



50376610006_56659

Sample Name:	**50376610006_56659**	Injection Volume (uL):	**1000.00**
Vial Number:	***14***	Channel:	**ECD_1**
Sample Type:	Unknown	Calibration:	**06/28/24 08:35**
Control ro*!* ram:	**I" # I#$**	**$**luent Stock:	**386320**
%uanti**&(** etho**)** :	C* L+I" # I#**$, -**	# ilution **.** actor	**1.0000**
/ ecor**)** in*!* Time:	**07/05/2024 20:37**	Sample ***0*** ei*!* ht:	**1.0000**
/ un Time (min):	***12', ,***	Sy**3**tem Name:	**Aquion_IC**

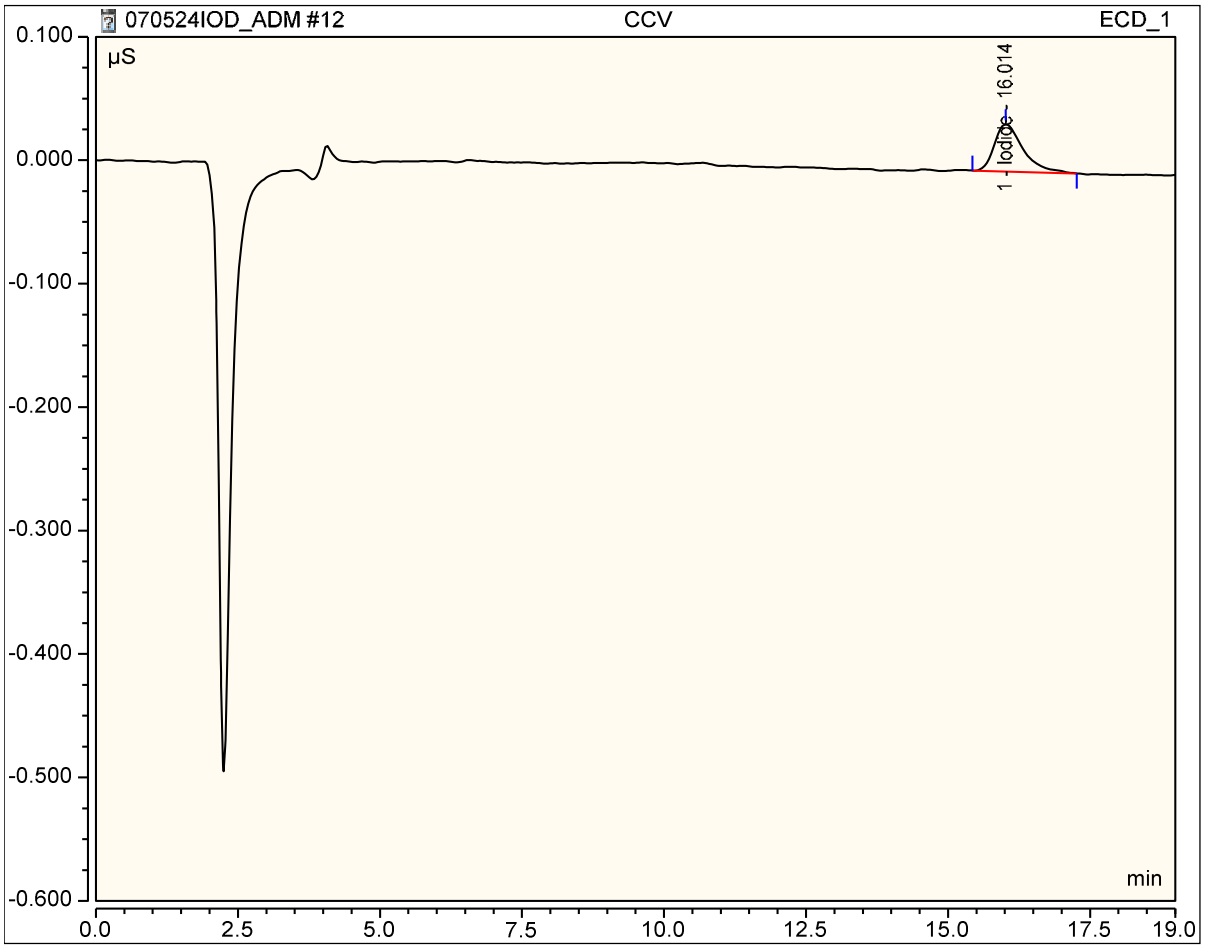
No.	Retention Time min	Name	Amount n.a.	Area µS*min	Height µS	Type



CCV
387137

Sample Name:	**CCV**	Injection Volume (uL):	**1000.00**
Vial Number:	***15***	Channel:	**ECD_1**
Sample Type:	Unknown	Calibration:	**06/28/24 08:35**
Control ro*!* ram:	**I" # I#$**	**$**luent Stock:	**386320**
%uanti**&(** etho**)** :	C* L+I" # I#**$, -**	**#** ilution **.** actor	**1.0000**
/ ecor**)** in*!* Time:	**07/05/2024 20:59**	Sample ***0*** ei*!* ht:	**1.0000**
/ un Time (min):	***12', ,***	Sy**3**tem Name:	**Aquion_IC**

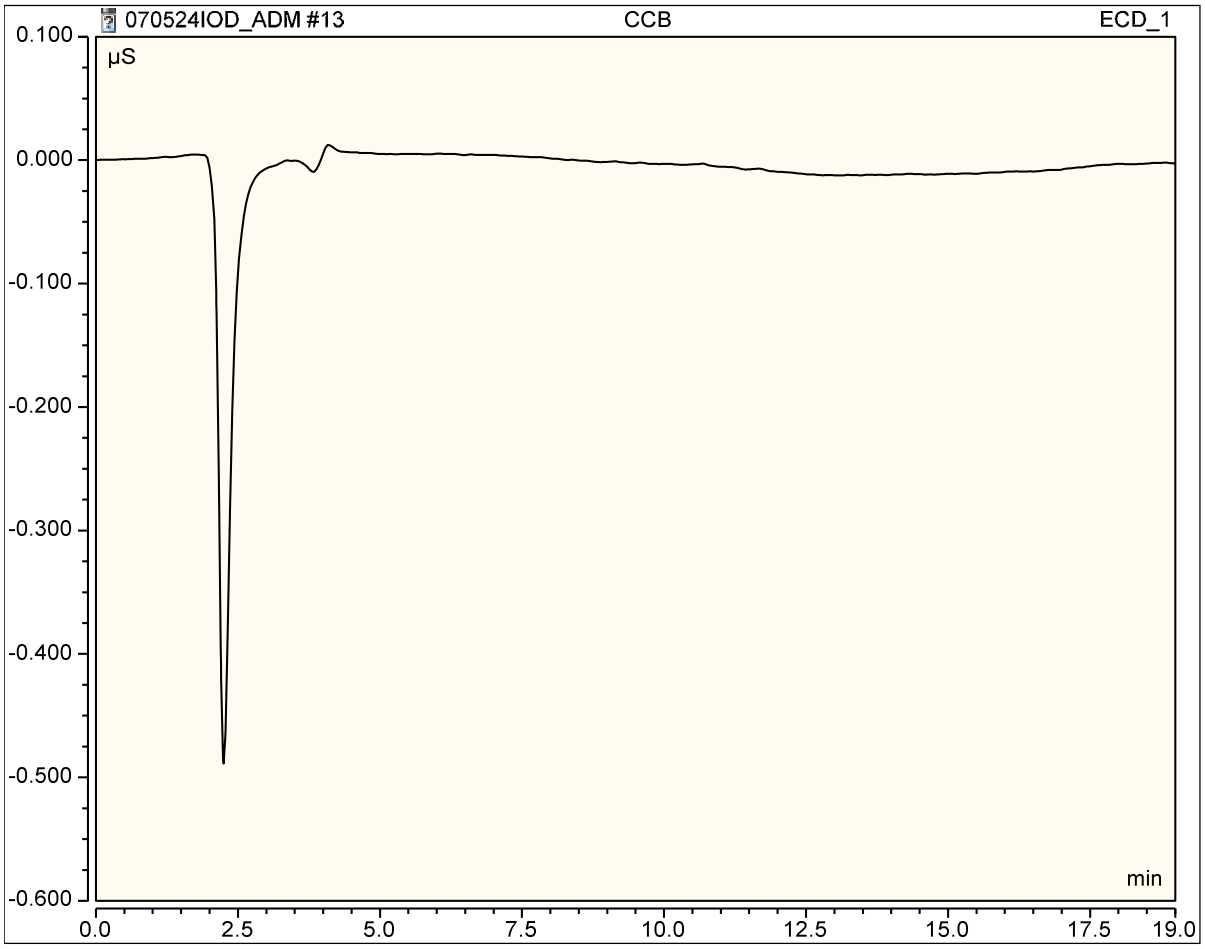
No.	Retention Time min	Name	Amount mg/L	Area µS*min	Height µS	Type
1	16.01	**Iodide**	1.1527	0.022	0.038	BMB



CCB
340111

Sample Name:	**CCB**	Injection Volume (uL):	**1000.00**
Vial Number:	***16***	Channel:	**ECD_1**
Sample Type:	Unknown	Calibration:	**06/28/24 08:35**
Control ro*!* ram:	**I" # I#$**	**$**luent Stock:	**386320**
%uanti**&(** etho**)** :	C* L+I" # I#**$, -**	**#** ilution **.** actor	**1.0000**
/ ecor**)** in*!* Time:	**07/05/2024 21:21**	Sample ***0*** ei*!* ht:	**1.0000**
/ un Time (min):	***12', ,***	Sy**3**tem Name:	**Aquion_IC**

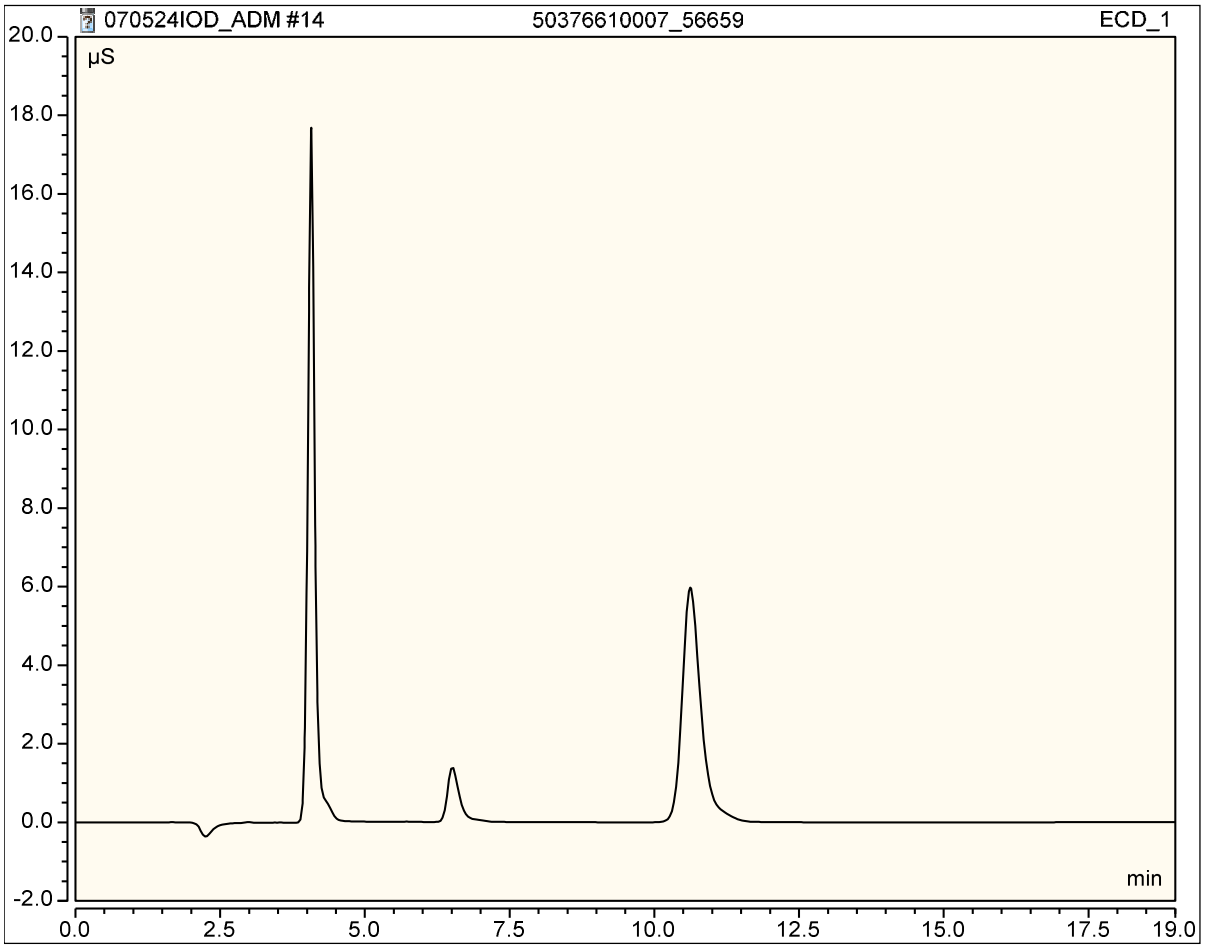
No.	Retention Time min	Name	Amount n.a.	Area µS*min	Height µS	Type



50376610007_56659

Sample Name:	**50376610007_56659**	Injection Volume (uL):	**1000.00**
Vial Number:	***17***	Channel:	**ECD_1**
Sample Type:	Unknown	Calibration:	**06/28/24 08:35**
Control ro*!* ram:	**I" # I#$**	**$**luent Stock:	**386320**
%uanti**&(** etho**)** :	**C* L+I" # I#$, -**	**#** ilution **.** actor	**1.0000**
/ ecor**)** in*!* Time:	**07/05/2024 21:42**	Sample ***0*** ei*!* ht:	**1.0000**
/ un Time (min):	***12', ,***	Sy**3**tem Name:	**Aquion_IC**

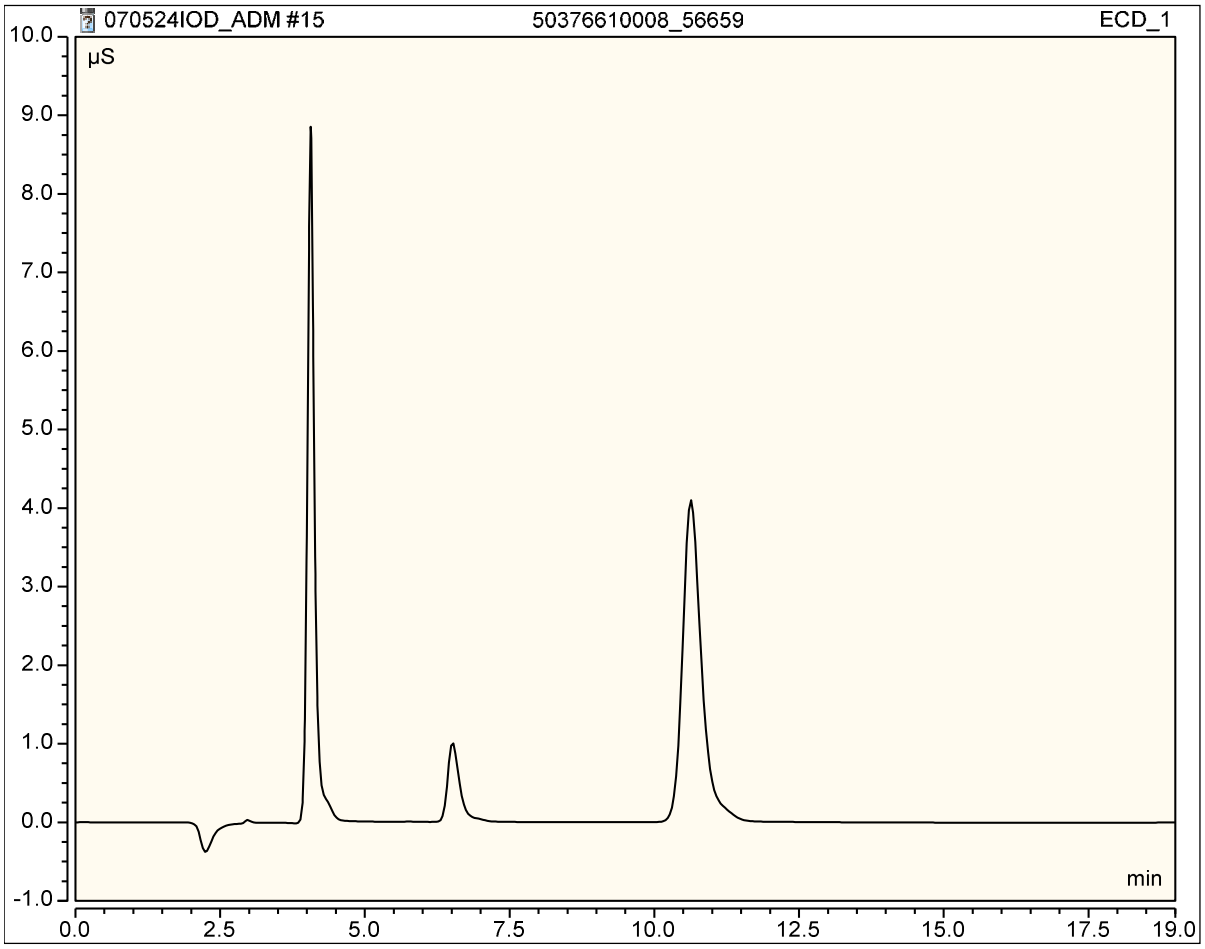
No.	Retention Time min	Name	Amount n.a.	Area µS*min	Height µS	Type



50376610008_56659

Sample Name:	**50376610008_56659**	Injection Volume (uL):	**1000.00**
Vial Number:	***1-***	Channel:	**ECD_1**
Sample Type:	Unknown	Calibration:	**06/28/24 08:35**
Control ro*!* ram:	**I" # I#$**	**$**luent Stock:	**386320**
%uanti**&(** etho**)** :	C* L+I" # I#**$, -**	# ilution **.** actor	**1.0000**
/ ecor**)** in*!* Time:	**07/05/2024 22:04**	Sample ***0*** ei*!* ht:	**1.0000**
/ un Time (min):	***12', ,***	Sy**3**tem Name:	**Aquion_IC**

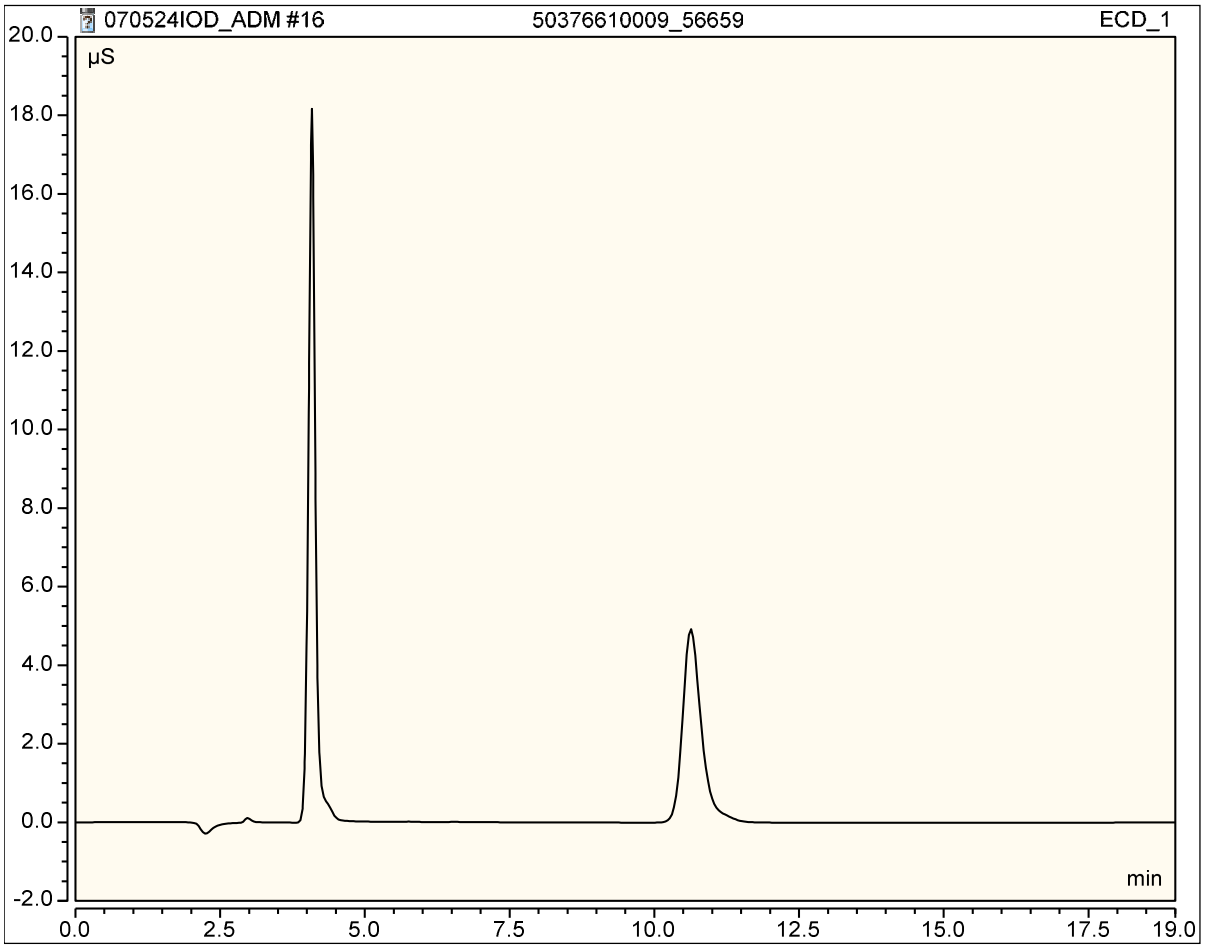
No.	Retention Time min	Name	Amount n.a.	Area µS*min	Height µS	Type



50376610009_56659

Sample Name:	**50376610009_56659**	Injection Volume (uL):	**1000.00**
Vial Number:	***18***	Channel:	**ECD_1**
Sample Type:	Unknown	Calibration:	**06/28/24 08:35**
Control ro*!* ram:	**I" # I#$**	**$**luent Stock:	**386320**
%uanti**&(** etho**)** :	**C* L+I" # I#$, -**	**#** ilution **.** actor	**1.0000**
/ ecor**)** in*!* Time:	**07/05/2024 22:26**	Sample ***0*** ei*!* ht:	**1.0000**
/ un Time (min):	***12', ,***	Sy**3**tem Name:	**Aquion_IC**

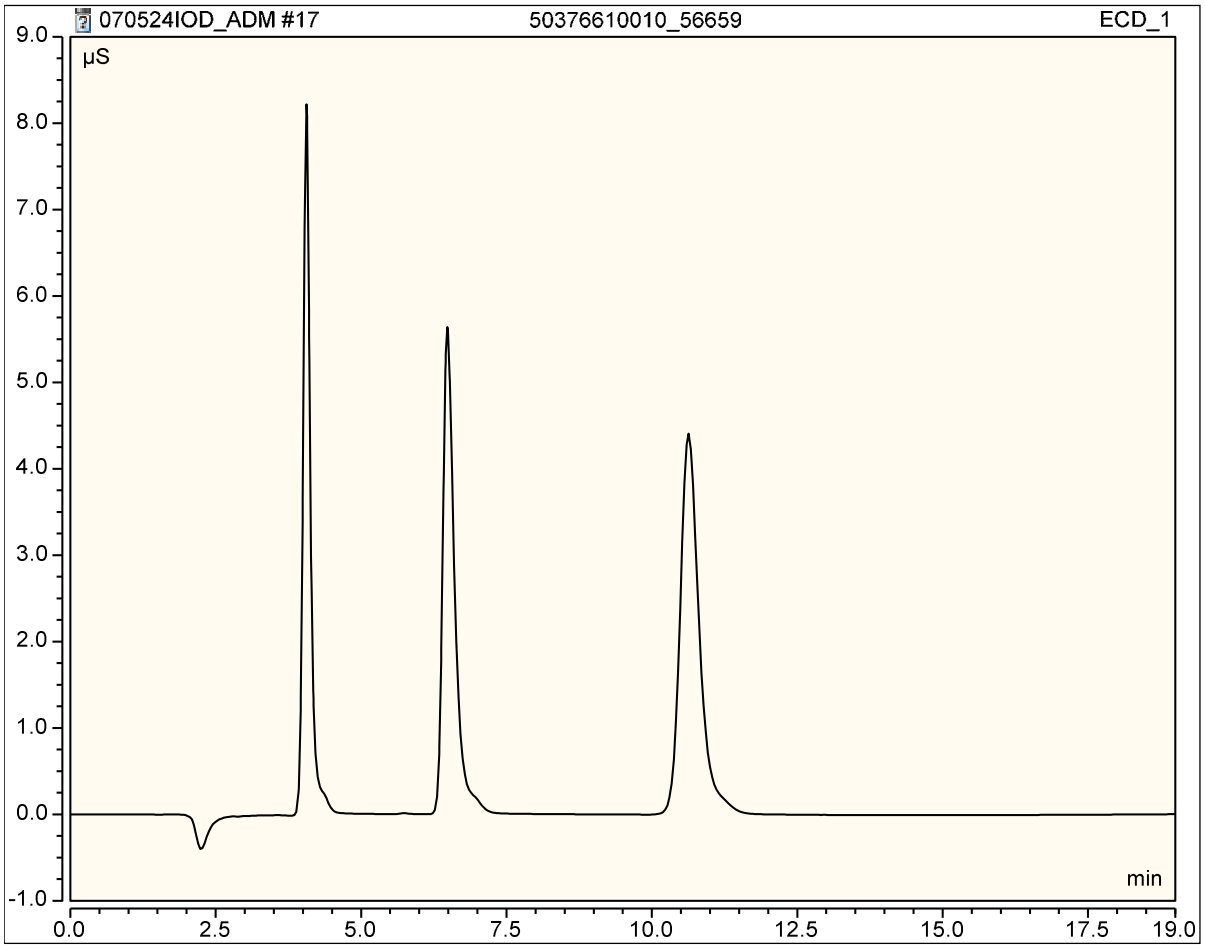
No.	Retention Time min	Name	Amount n.a.	Area µS*min	Height µS	Type



50376610010_56659

Sample Name:	**50376610010_56659**	Injection Volume (uL):	**1000.00**
Vial Number:	***12***	Channel:	**ECD_1**
Sample Type:	Unknown	Calibration:	**06/28/24 08:35**
Control ro*!* ram:	**I" # I#$**	**$**luent Stock:	**386320**
%uanti**&(** etho**)** :	**C* L+I" # I#$, -**	**#** ilution **.** actor	**1.0000**
/ ecor**)** in*!* Time:	**07/05/2024 22:48**	Sample ***0*** ei*!* ht:	**1.0000**
/ un Time (min):	***12', ,***	Sy***3***tem Name:	**Aquion_IC**

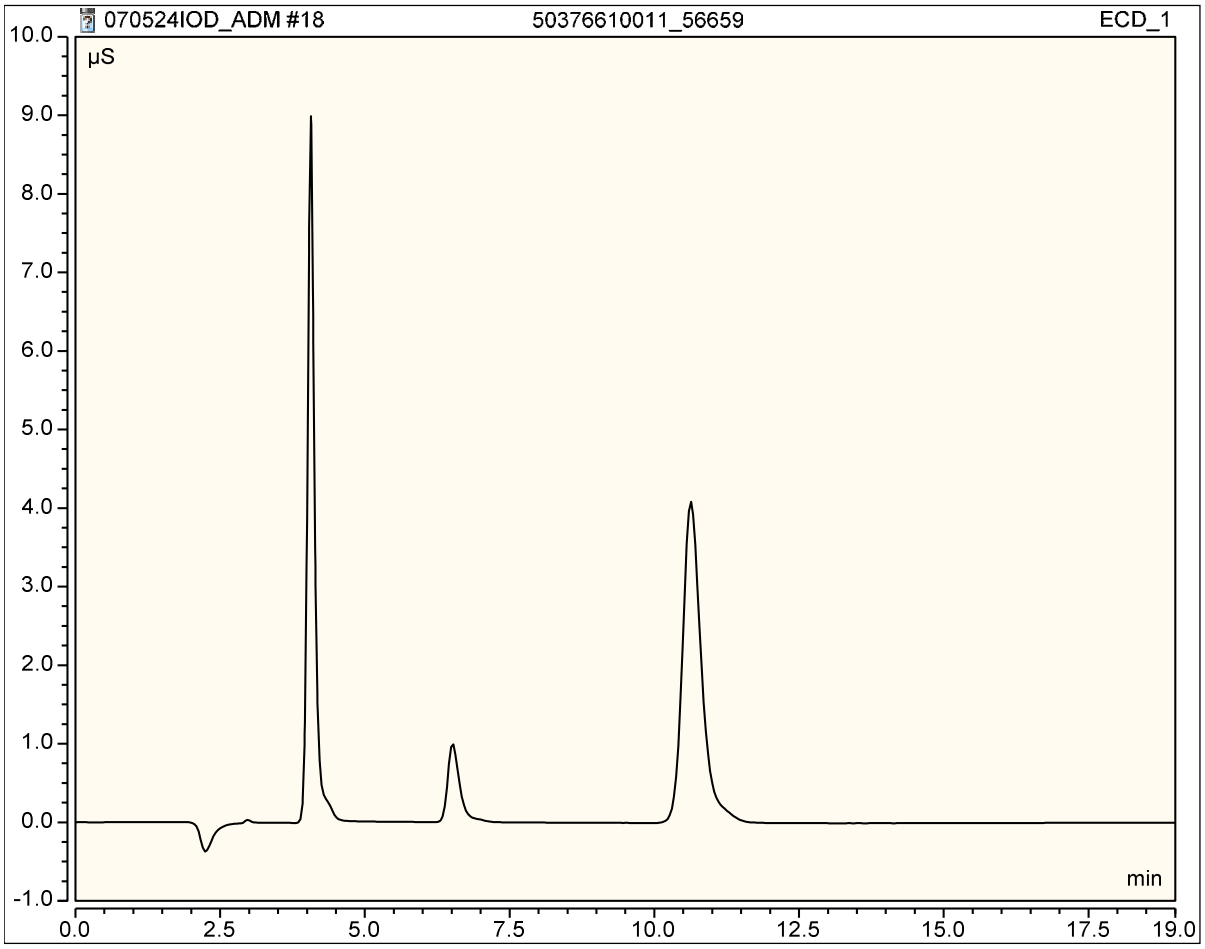
No.	Retention Time min	Name	Amount n.a.	Area µS*min	Height µS	Type



50376610011_56659

Sample Name:	**50376610011_56659**	Injection Volume (uL):	**1000.00**
Vial Number:	2,	Channel:	**ECD_1**
Sample Type:	Unknown	Calibration:	**06/28/24 08:35**
Control ro! ram:	I" # I# $	$ luent Stock:	**386320**
%uanti& (etho) :	C* L+I" # I# $, -	# ilution . actor	**1.0000**
/ ecor) in! Time:	**07/05/2024 23:10**	Sample 0 ei! ht:	**1.0000**
/ un Time (min):	**12', ,**	Sy3tem Name:	**Aquion_IC**

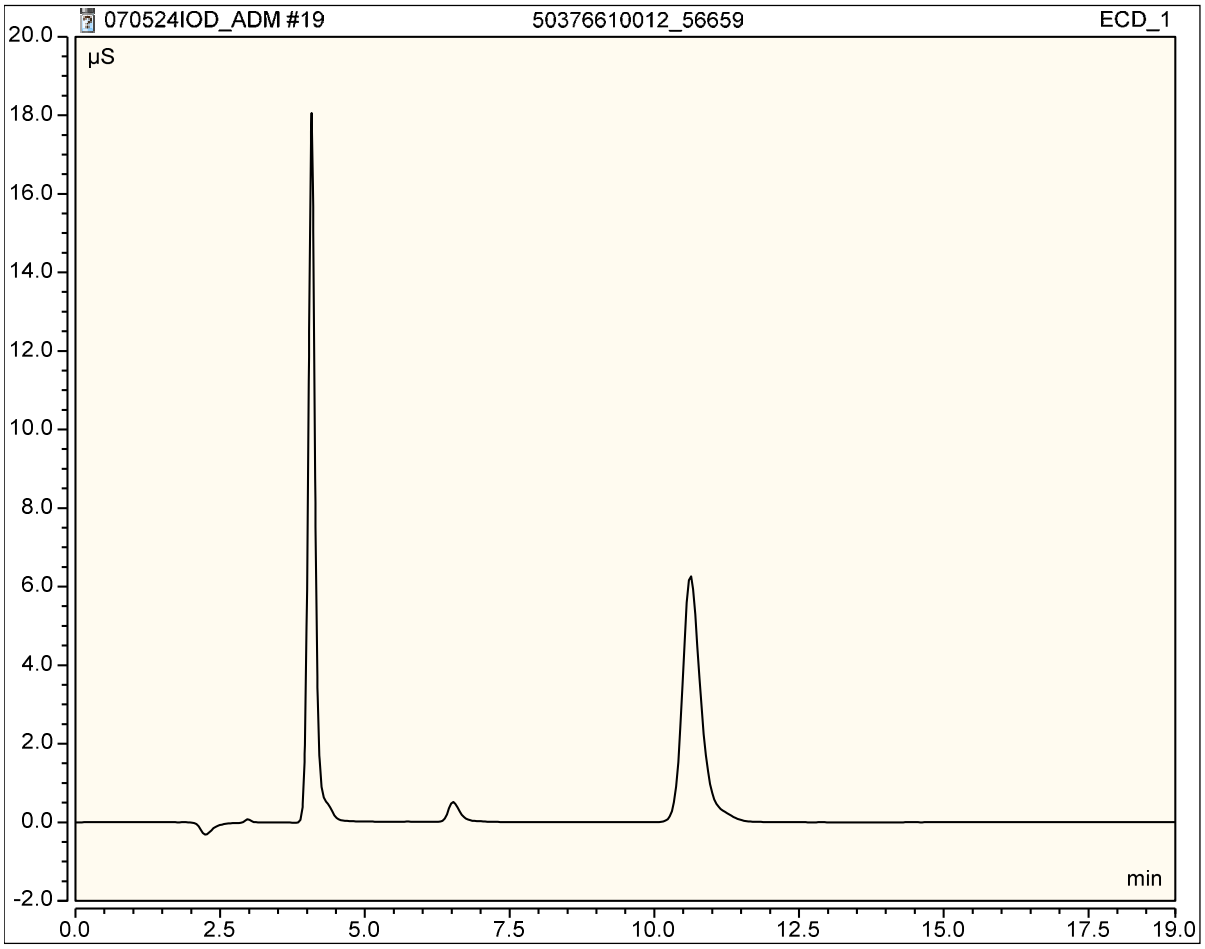
No.	Retention Time min	Name	Amount n.a.	Area µS*min	Height µS	Type



50376610012_56659

Sample Name:	**50376610012_56659**	Injection Volume (uL):	**1000.00**
Vial Number:	**21**	Channel:	**ECD_1**
Sample Type:	Unknown	Calibration:	**06/28/24 08:35**
Control ro! ram:	**I" # I# $**	$luent Stock:	**386320**
%uanti&(etho) :	C* L+I" # I# $, -	#ilution . actor	**1.0000**
/ ecor) in! Time:	**07/05/2024 23:32**	Sample 0 ei! ht:	**1.0000**
/ un Time (min):	**12', ,**	Sy3tem Name:	**Aquion_IC**

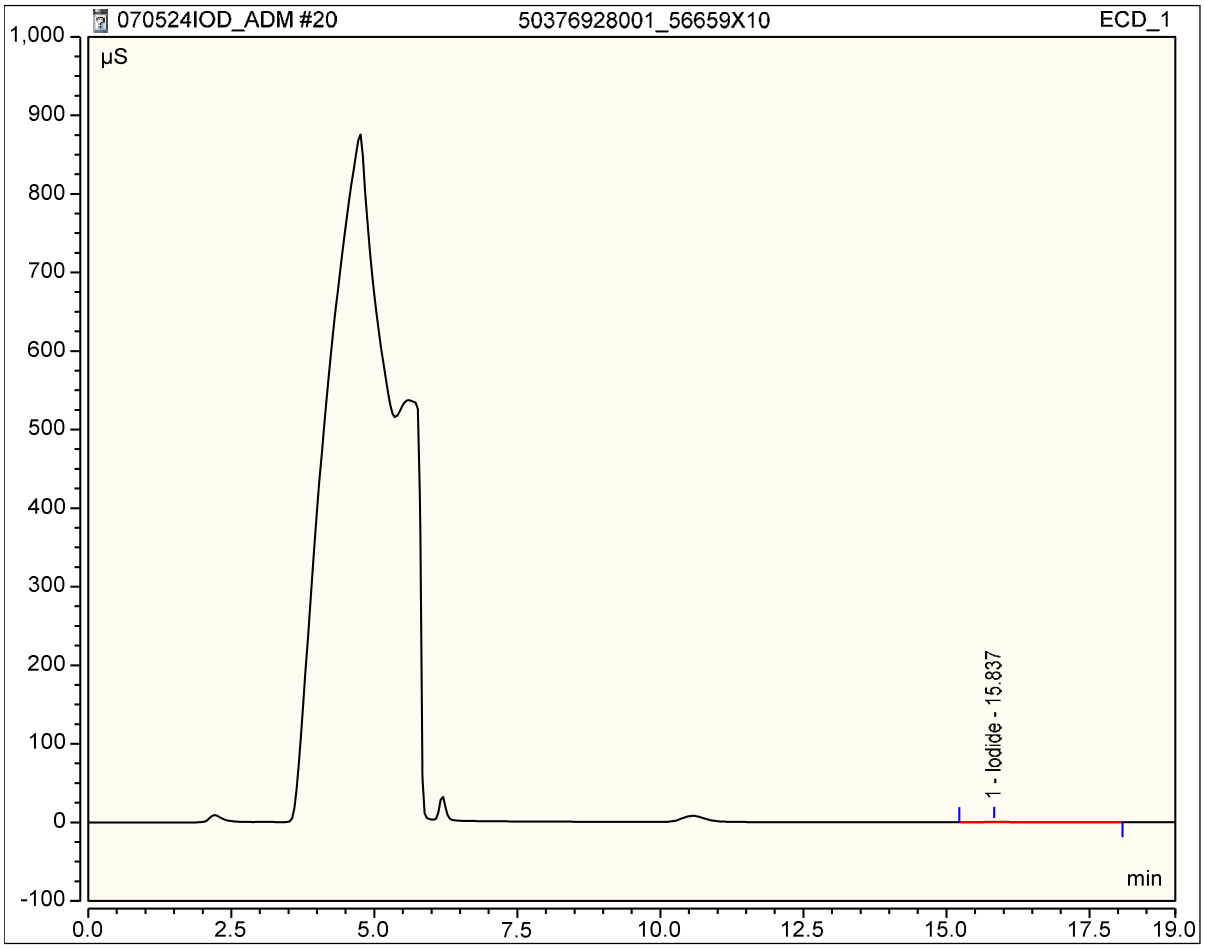
No.	Retention Time min	Name	Amount n.a.	Area µS*min	Height µS	Type



50376928001_56659X10

Sample Name:	**50376928001_56659X10**	Injection Volume (uL):	**1000.00**
Vial Number:	**24**	Channel:	**ECD_1**
Sample Type:	Unknown	Calibration:	**06/28/24 08:35**
Control ro! ram:	**I" # I# $**	$luent Stock:	**386320**
%uanti&(etho) :	C* L+I" # I# $, -	#ilution . actor	**1.0000**
/ ecor) in! Time:	**07/05/2024 23:54**	Sample 0 ei! ht:	**1.0000**
/ un Time (min):	**12', ,**	Sy3tem Name:	**Aquion_IC**

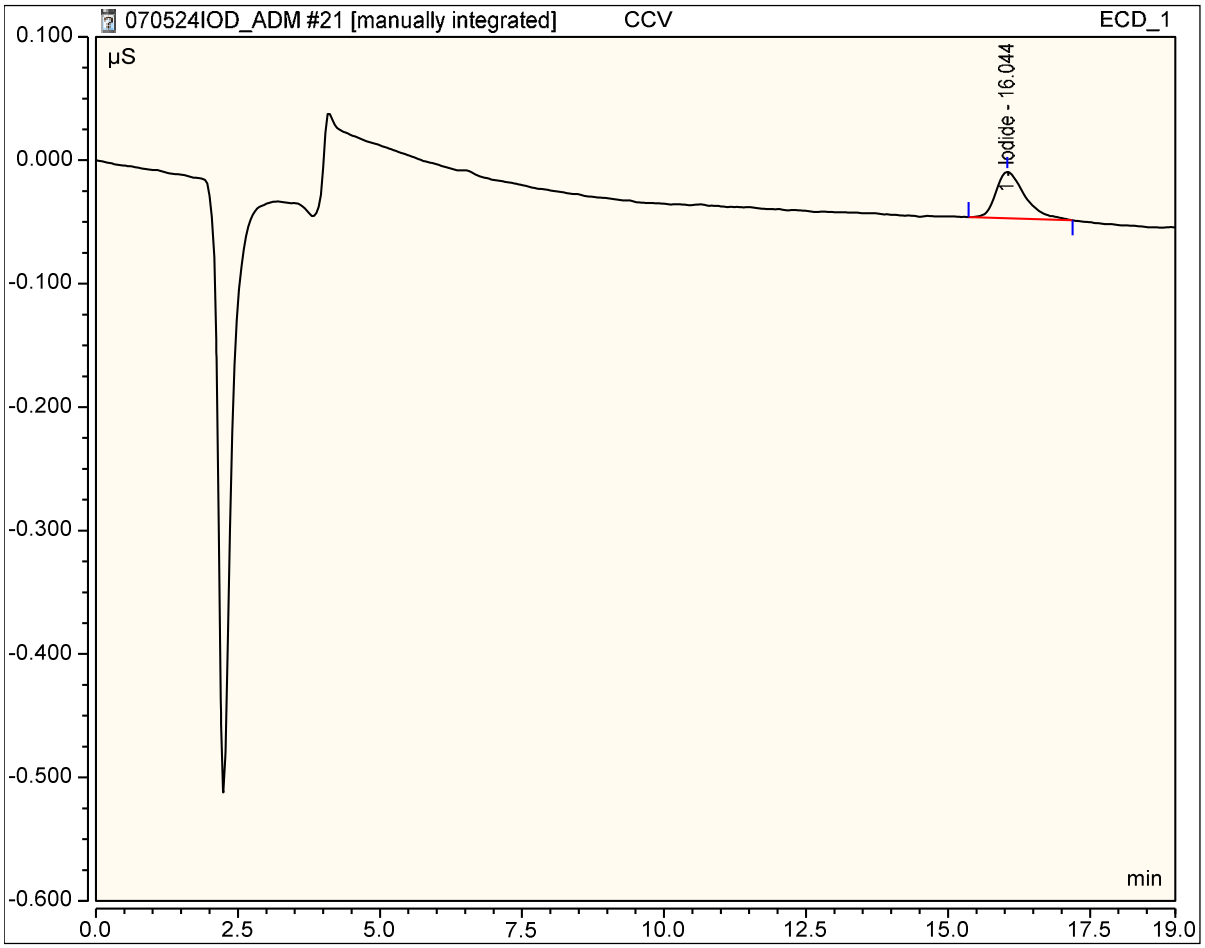
No.	Retention Time min	Name	Amount mg/L	Area µS*min	Height µS	Type
1	15.84	**Iodide**	11.5268	0.247	0.386	BMB



CCV
387137

Sample Name:	**CCV**	Injection Volume (uL):	**1000.00**
Vial Number:	**27**	Channel:	**ECD_1**
Sample Type:	Unknown	Calibration:	**06/28/24 08:35**
Control ro! ram:	**I" # I# $**	**$**luent Stock:	**386320**
%uanti**&(** etho**)** :	C* L+I" # I# **$, -**	**#** ilution **.** actor	**1.0000**
/ ecor**)** in**!** Time:	**07/06/2024 00:16**	Sample **0** ei**!** ht:	**1.0000**
/ un Time (min):	**12', ,**	Sy**3**tem Name:	**Aquion_IC**

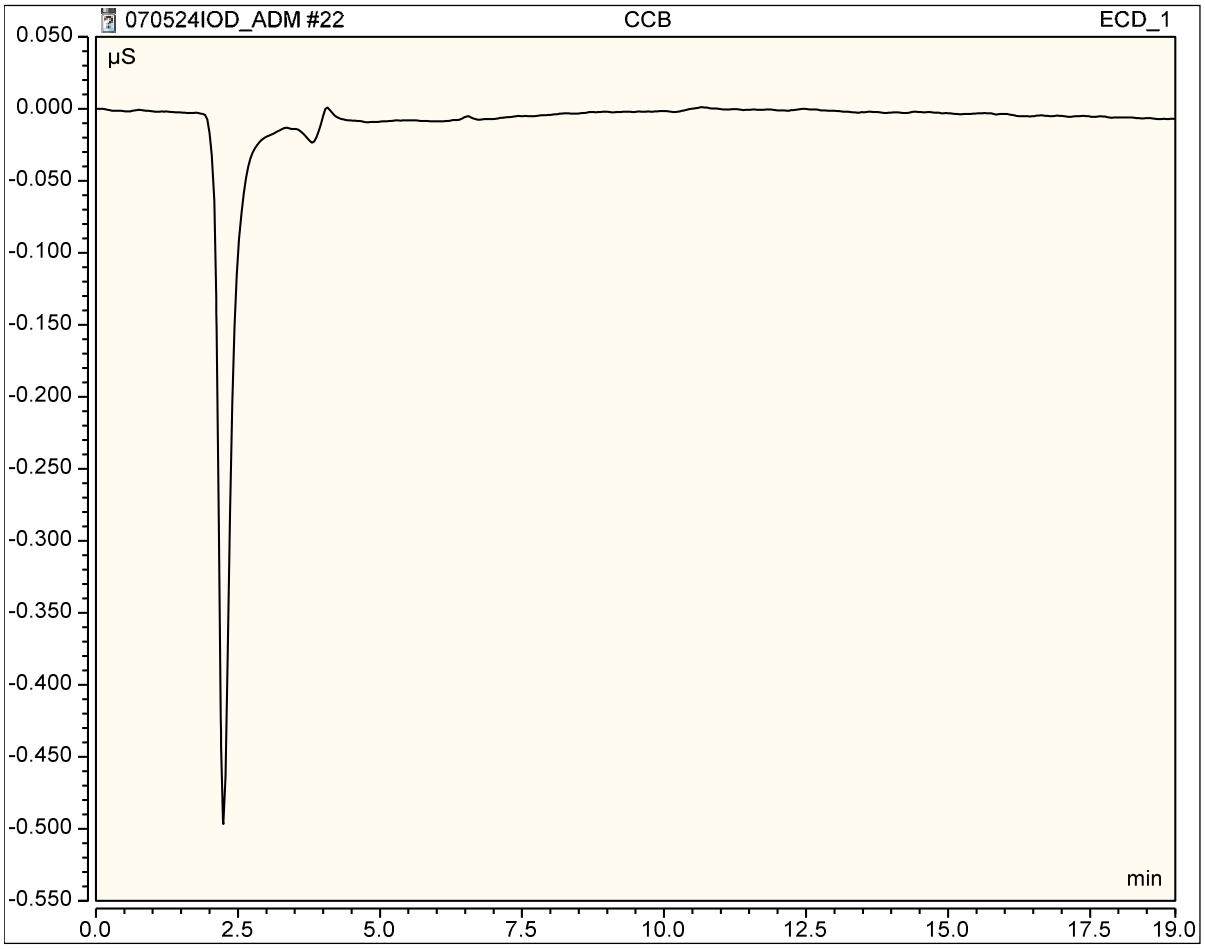
No.	Retention Time min	Name	Amount mg/L	Area µS*min	Height µS	Type
1	16.04	**Iodide**	1.1412	0.022	0.037	BMB*



CCB
340111

Sample Name:	**CCB**	Injection Volume (uL):	**1000.00**
Vial Number:	2-	Channel:	**ECD_1**
Sample Type:	Unknown	Calibration:	**06/28/24 08:35**
Control ro! ram:	I" # I# $	$ luent Stock:	**386320**
%uanti& (etho) :	C* L+I" # I# $, -	# ilution . actor	**1.0000**
/ ecor) in! Time:	**07/06/2024 00:37**	Sample 0 ei! ht:	**1.0000**
/ un Time (min):	**12', ,**	Sy3tem Name:	**Aquion_IC**

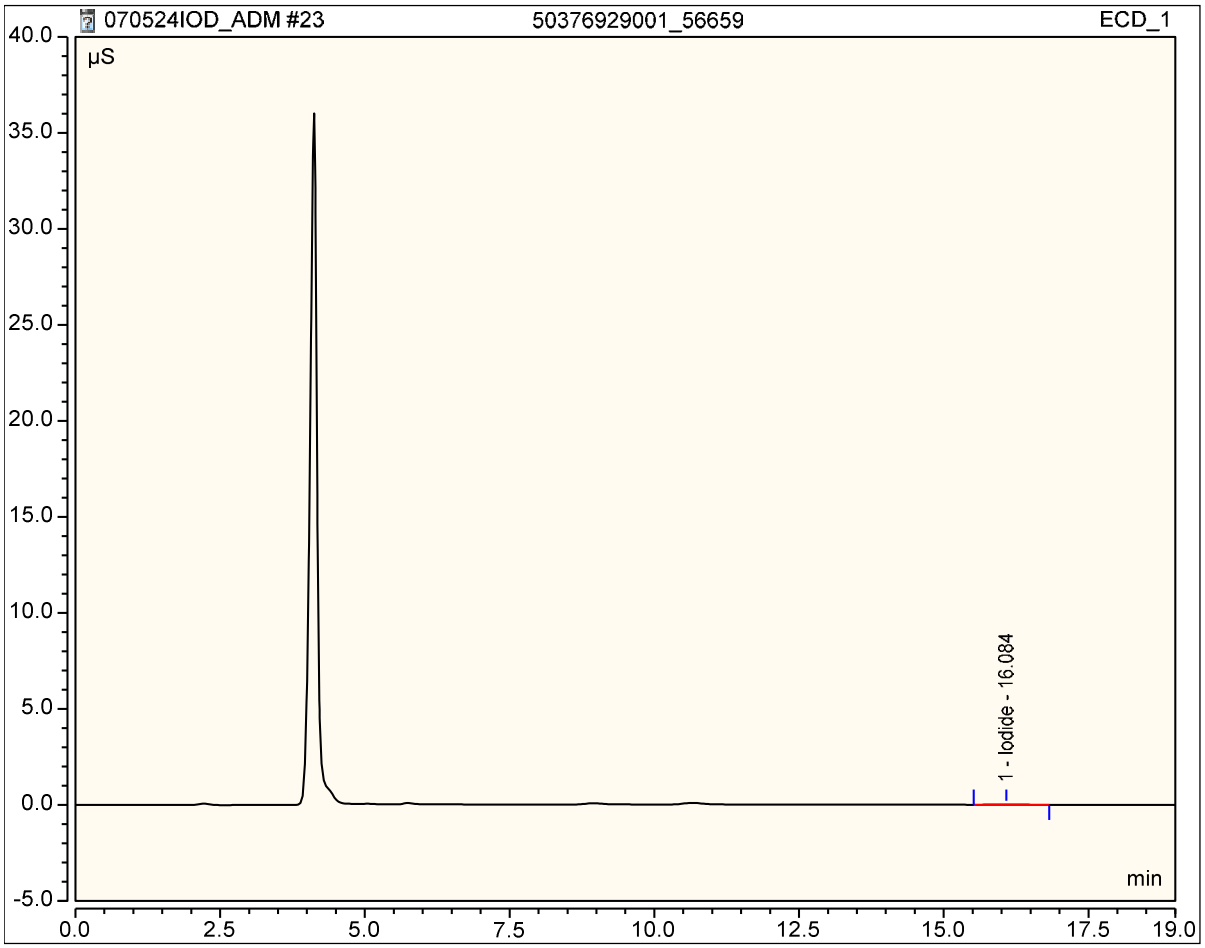
No.	Retention Time min	Name	Amount n.a.	Area µS*min	Height µS	Type



50376929001_56659

Sample Name:	**50376929001_56659**	Injection Volume (uL):	**1000.00**
Vial Number:	**28**	Channel:	**ECD_1**
Sample Type:	Unknown	Calibration:	**06/28/24 08:35**
Control ro! ram:	**I" # I# $**	**$**luent Stock:	**386320**
%uanti**&(** etho**)** :	C* L+I" # I# **$, -**	# ilution **.** actor	**1.0000**
/ ecor**)** in**!** Time:	**07/06/2024 00:59**	Sample **0** ei**!** ht:	**1.0000**
/ un Time (min):	**12', ,**	Sy**3**tem Name:	**Aquion_IC**

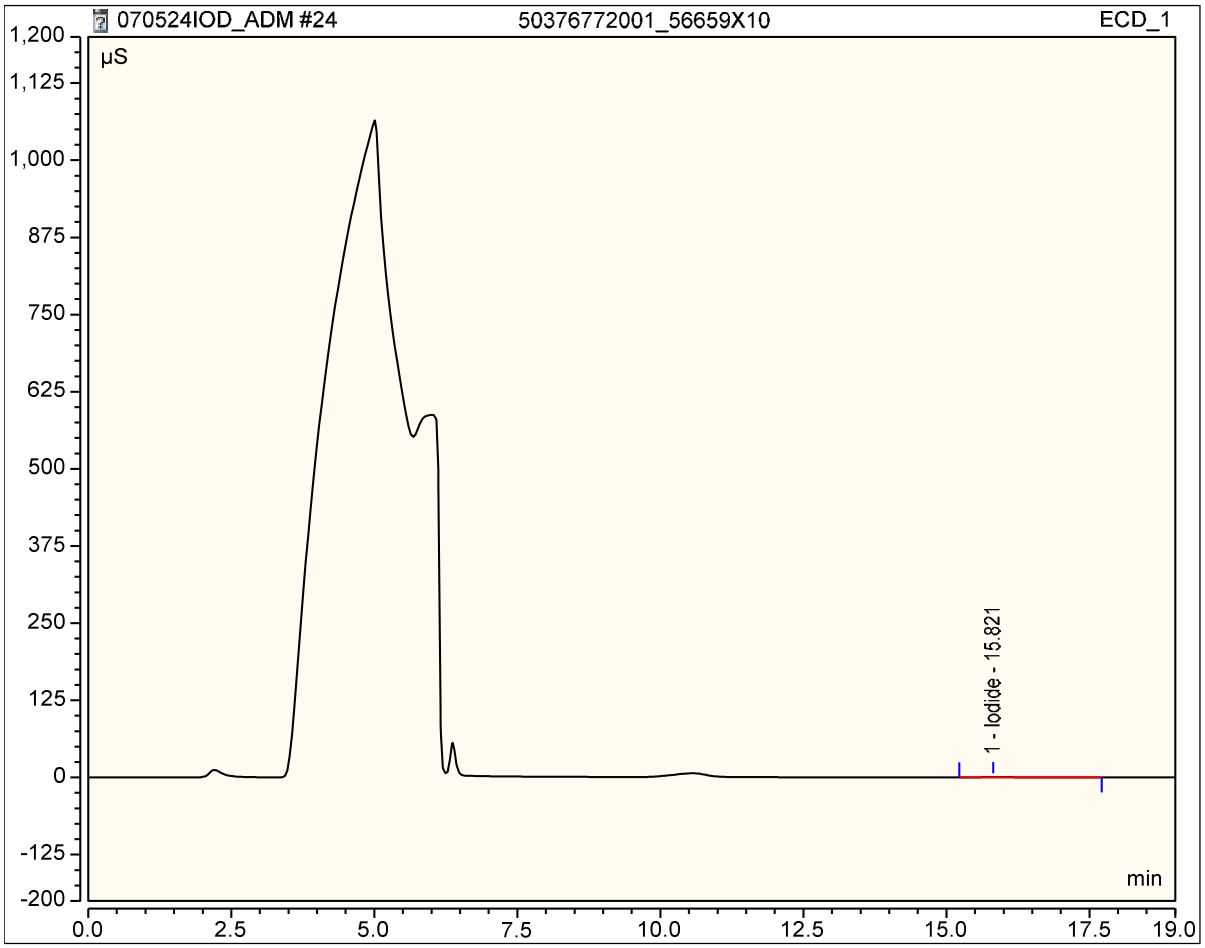
No.	Retention Time min	Name	Amount mg/L	Area µS*min	Height µS	Type
1	16.08	**Iodide**	0.4521	0.007	0.014	BMB



50376772001_56659X10

Sample Name:	**50376772001_56659X10**	Injection Volume (uL):	**1000.00**
Vial Number:	***41***	Channel:	**ECD_1**
Sample Type:	Unknown	Calibration:	**06/28/24 08:35**
Control ro*!* ram:	**I" # I#$**	**$**luent Stock:	**386320**
%uanti**&(** etho**)** :	**C* L+I" # I#$, -**	**#** ilution **.** actor	**1.0000**
/ ecor**)** in*!* Time:	**07/06/2024 01:21**	Sample ***0*** ei*!* ht:	**1.0000**
/ un Time (min):	***12', ,***	Sy***3***tem Name:	**Aquion_IC**

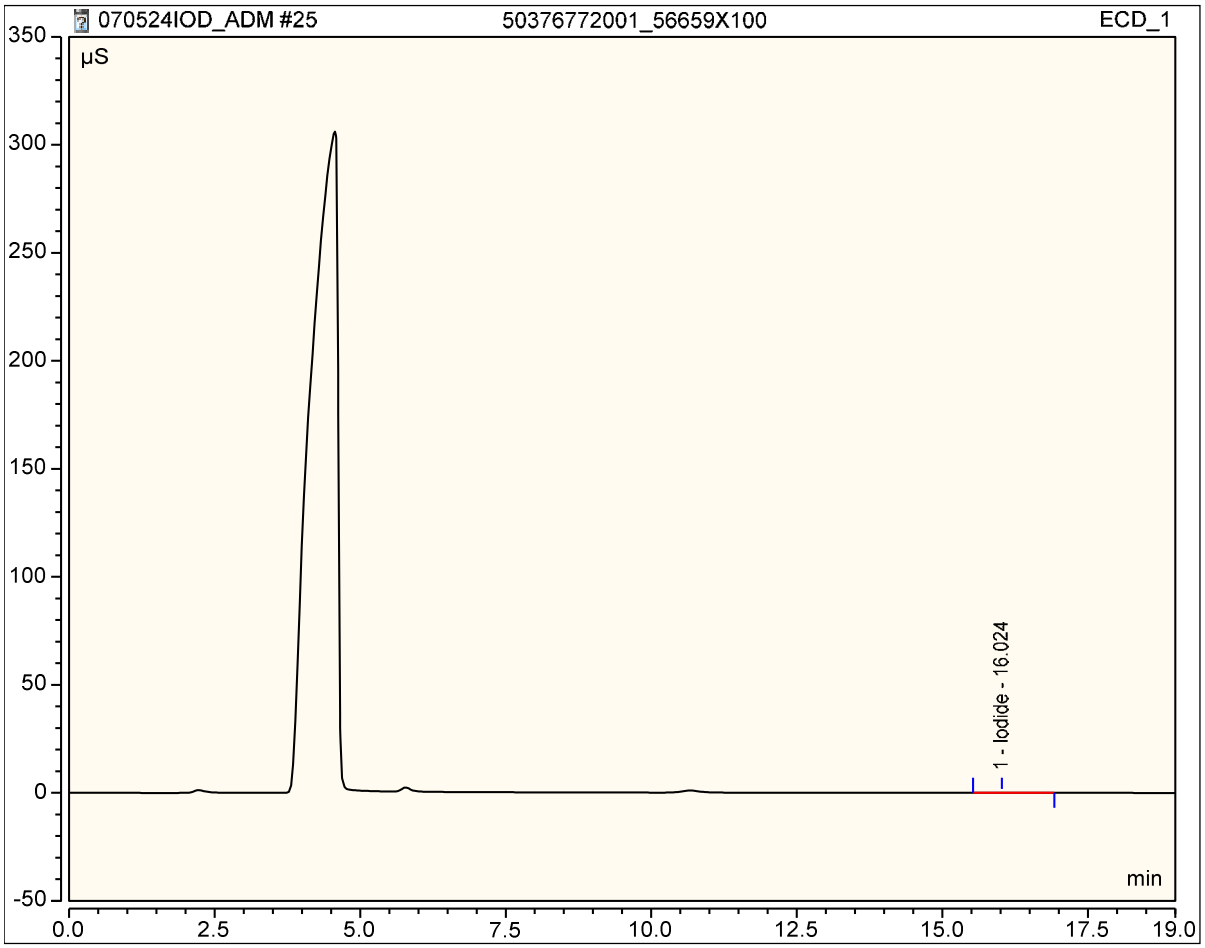
No.	Retention Time min	Name	Amount mg/L	Area µS*min	Height µS	Type
1	15.82	**Iodide**	12.5681	0.270	0.427	BMB



50376772001_56659X100

Sample Name:	**50376772001_56659X100**	Injection Volume (uL):	**1000.00**
Vial Number:	**42**	Channel:	**ECD_1**
Sample Type:	Unknown	Calibration:	**06/28/24 08:35**
Control ro! ram:	**I" # I#$**	$luent Stock:	**386320**
%uanti&(etho) :	**C* L+I" # I#$, -**	#ilution . actor	**1.0000**
/ ecor) in! Time:	**07/06/2024 01:43**	Sample 0 ei! ht:	**1.0000**
/ un Time (min):	**12', ,**	Sy3tem Name:	**Aquion_IC**

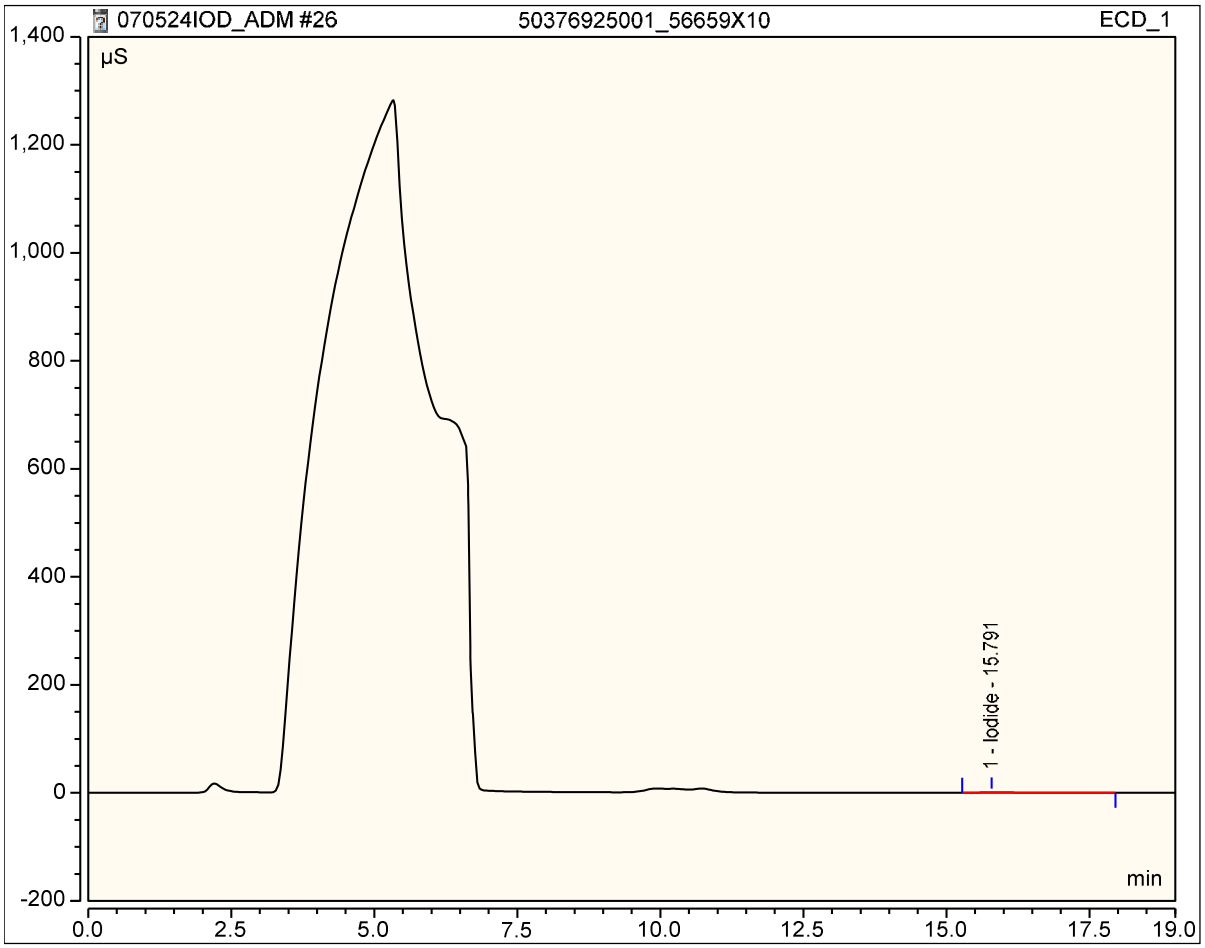
No.	Retention Time min	Name	Amount mg/L	Area µS*min	Height µS	Type
1	16.02	**Iodide**	1.0780	0.021	0.039	BMB



50376925001_56659X10

Sample Name:	**50376925001_56659X10**	Injection Volume (uL):	**1000.00**
Vial Number:	***44***	Channel:	**ECD_1**
Sample Type:	Unknown	Calibration:	**06/28/24 08:35**
Control ro*!* ram:	**I" # I#$**	**$**luent Stock:	**386320**
%uanti**&(** etho**)** :	C* L+I" # I#**$, -**	**#** ilution **.** actor	**1.0000**
/ ecor**)** in*!* Time:	**07/06/2024 02:05**	Sample ***0*** ei*!* ht:	**1.0000**
/ un Time (min):	***12', ,***	Sy**3**tem Name:	**Aquion_IC**

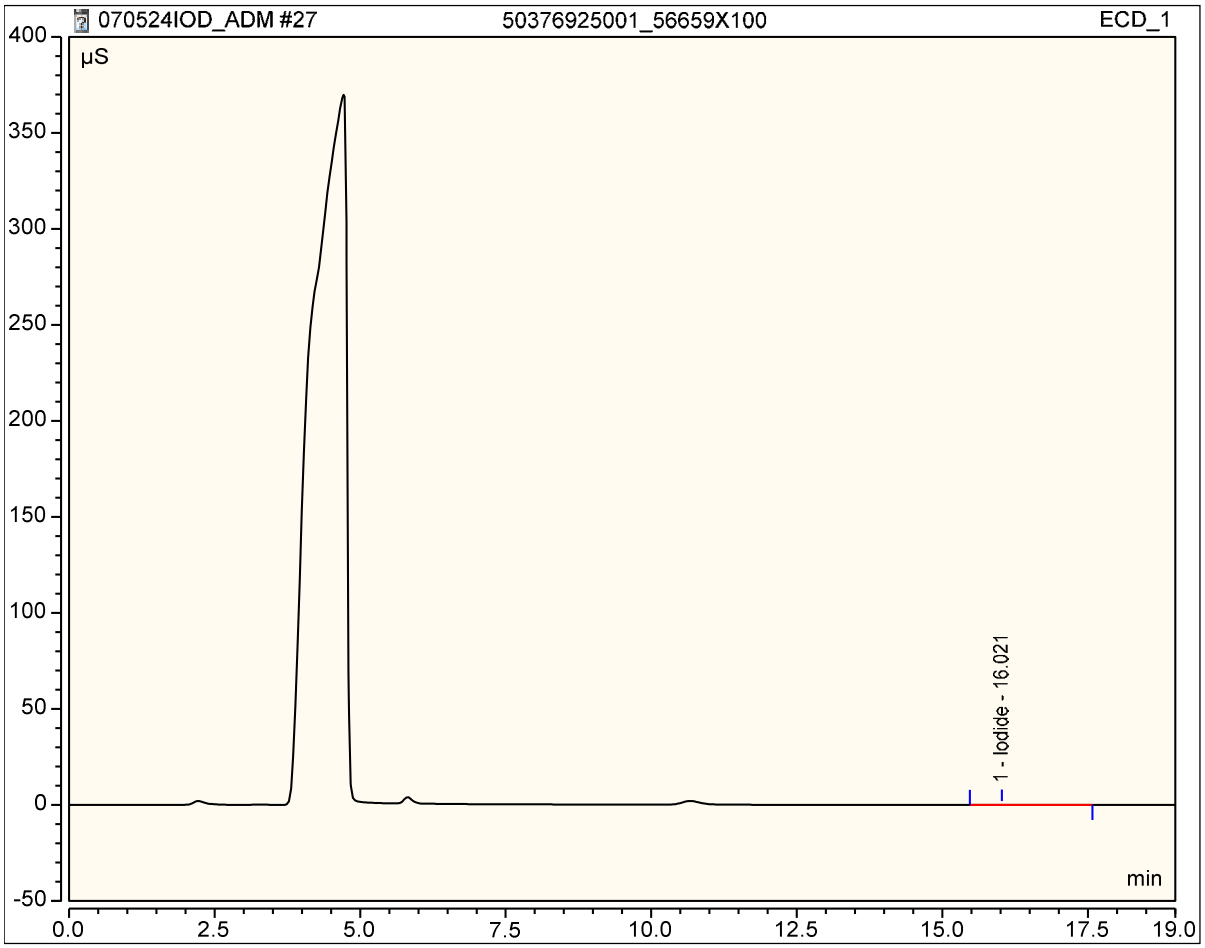
No.	Retention Time min	Name	Amount mg/L	Area µS*min	Height µS	Type
1	15.79	**Iodide**	25.8926	0.559	0.858	BMB



50376925001_56659X100

Sample Name:	**50376925001_56659X100**	Injection Volume (uL):	**1000.00**
Vial Number:	***45***	Channel:	**ECD_1**
Sample Type:	Unknown	Calibration:	**06/28/24 08:35**
Control ro*!* ram:	**I" # I#$**	**$**luent Stock:	**386320**
%uanti**&(** etho**)** :	C* L+I" # I#**$, -**	**#** ilution **.** actor	**1.0000**
/ ecor**)** in*!* Time:	**07/06/2024 02:27**	Sample ***0*** ei*!* ht:	**1.0000**
/ un Time (min):	***12', ,***	Sy***3***tem Name:	**Aquion_IC**

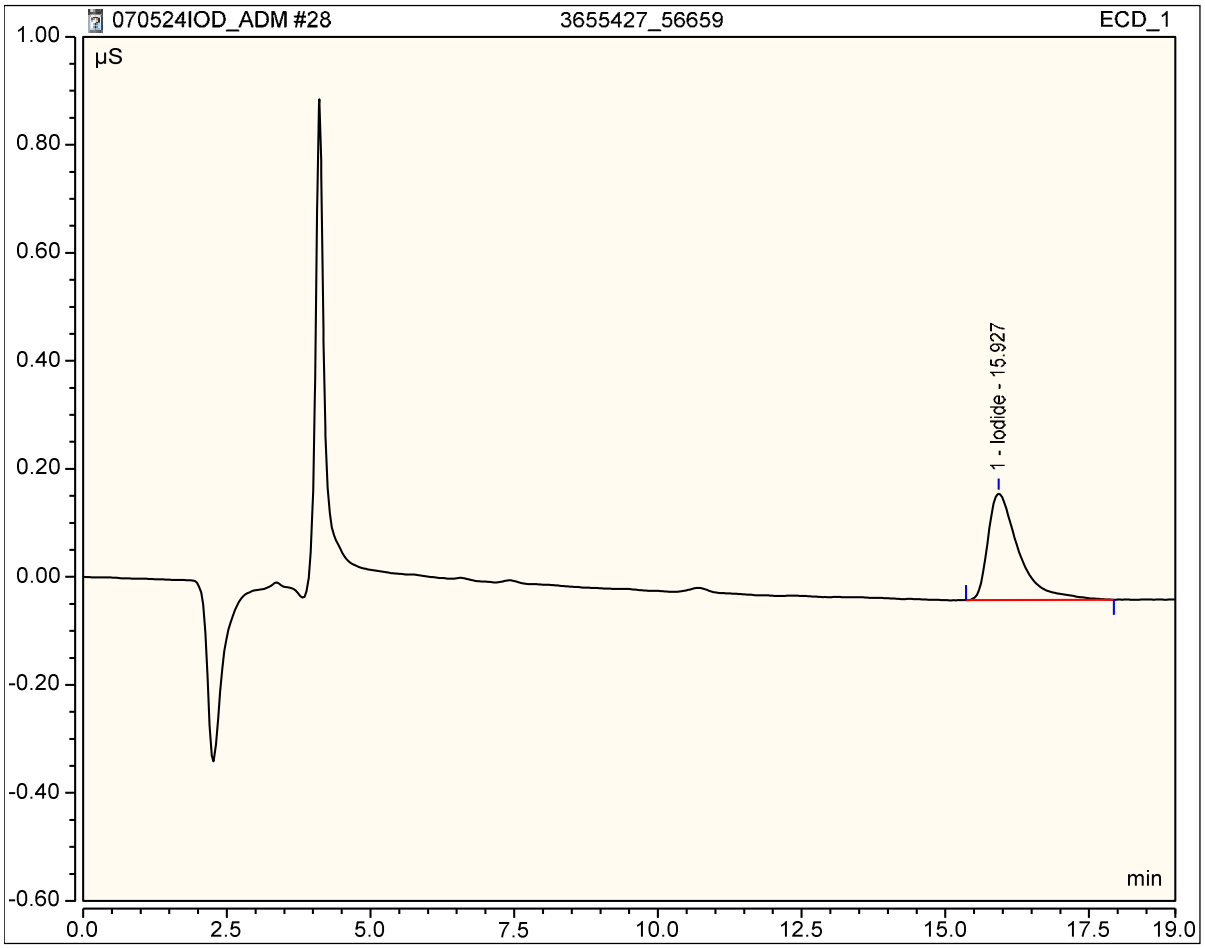
No.	Retention Time min	Name	Amount mg/L	Area µS*min	Height µS	Type
1	16.02	**Iodide**	2.3082	0.048	0.080	BMB



3655427_56659
377680

Sample Name:	**3655427_56659**	Injection Volume (uL):	**1000.00**
Vial Number:	***46***	Channel:	**ECD_1**
Sample Type:	Unknown	Calibration:	**06/28/24 08:35**
Control ro! ram:	**I" # I# $**	$luent Stock:	**386320**
%uanti&(etho) :	**C* L+I" # I# $, -**	#ilution . actor	**1.0000**
/ ecor) in! Time:	**07/06/2024 02:49**	Sample *0* ei! ht:	**1.0000**
/ un Time (min):	***12', ,***	Sy3tem Name:	**Aquion_IC**

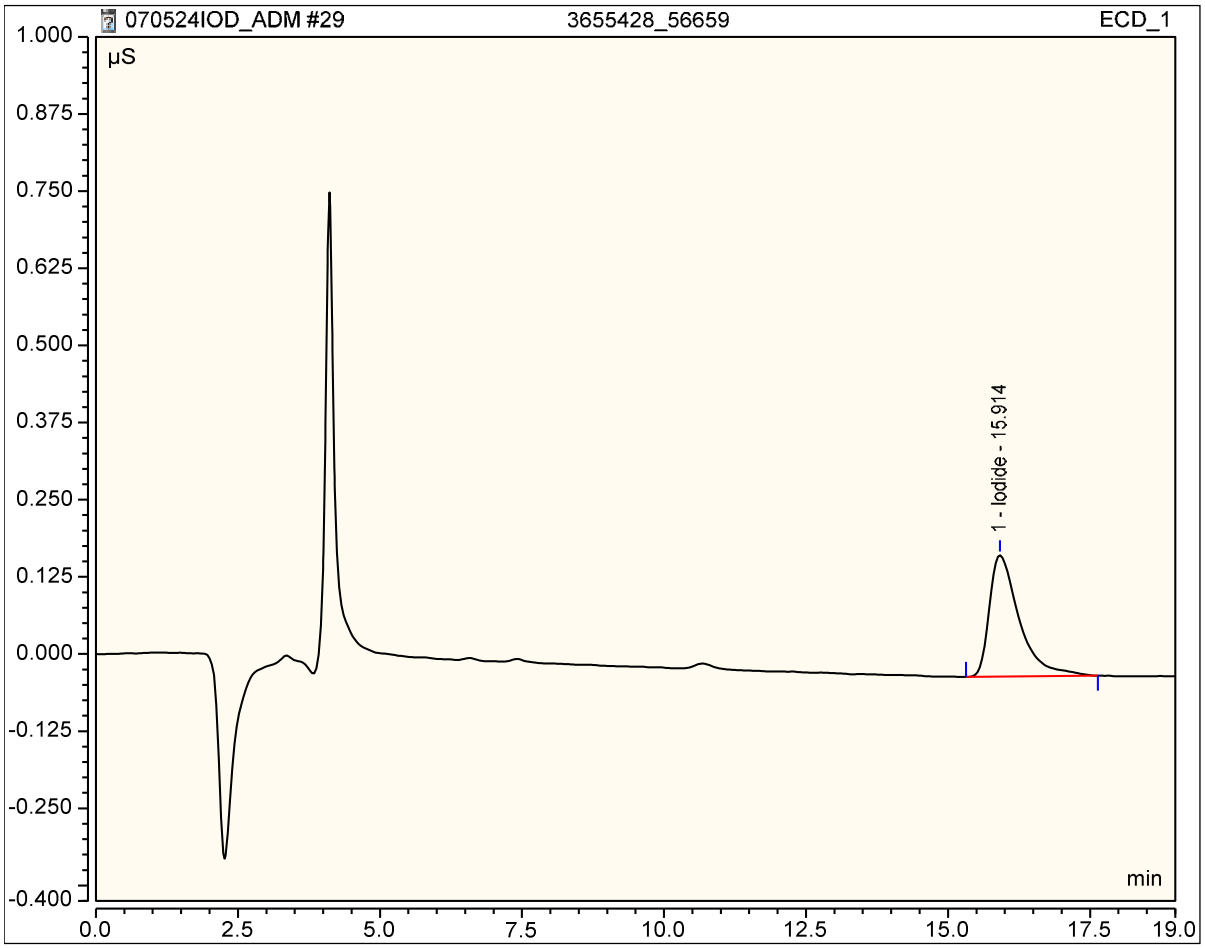
No.	Retention Time min	Name	Amount mg/L	Area µS*min	Height µS	Type
1	15.93	**Iodide**	5.7676	0.123	0.197	BMB



3655428_56659
377680

Sample Name:	**3655428_56659**	Injection Volume (uL):	**1000.00**
Vial Number:	***47***	Channel:	**ECD_1**
Sample Type:	Unknown	Calibration:	**06/28/24 08:35**
Control ro*!* ram:	**I" # I#$**	**$**luent Stock:	**386320**
%uanti**&(** etho**)** :	**C* L+I" # I#$, -**	**#** ilution **.** actor	**1.0000**
/ ecor**)** in*!* Time:	**07/06/2024 03:11**	Sample ***0*** ei*!* ht:	**1.0000**
/ un Time (min):	***12', ,***	Sy***3***tem Name:	**Aquion_IC**

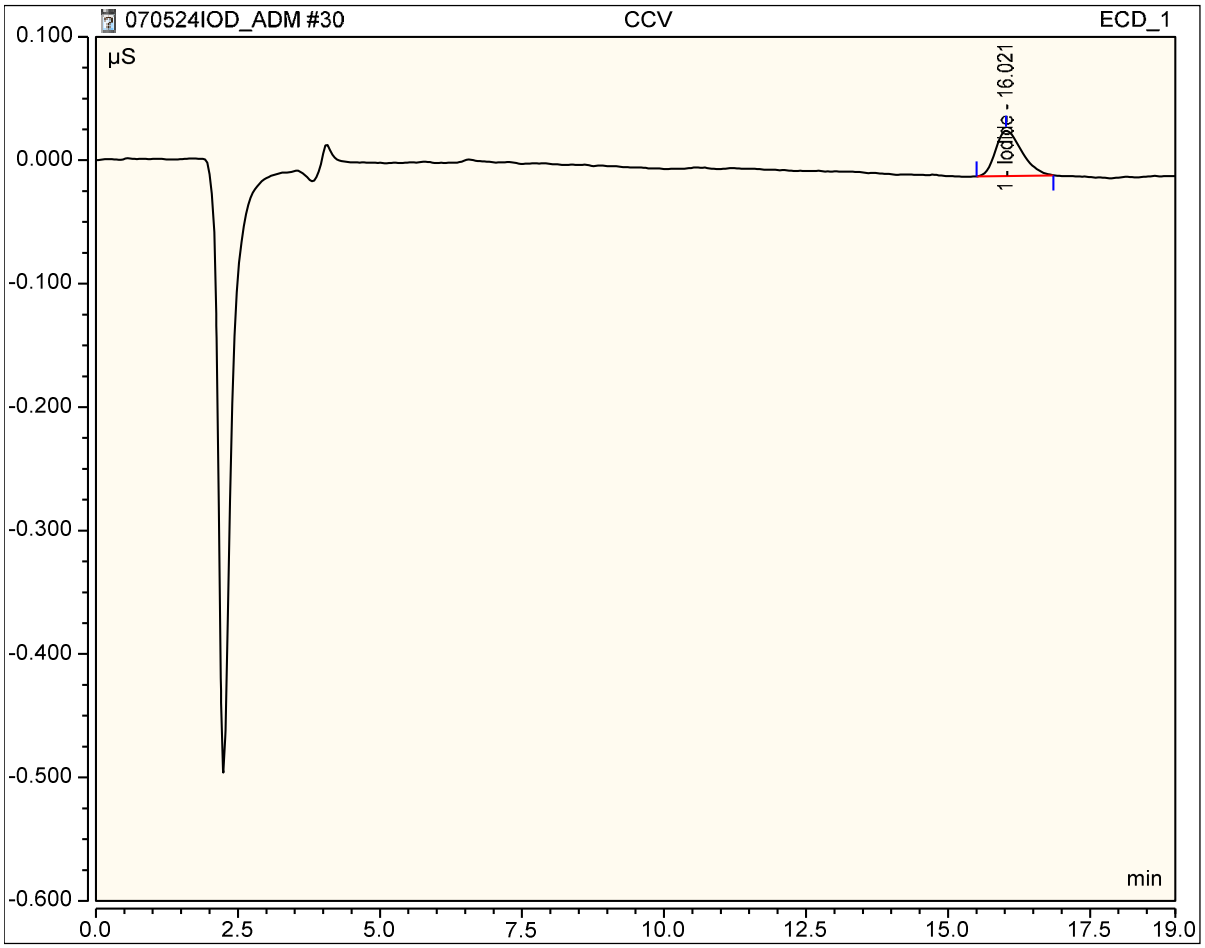
No.	Retention Time min	Name	Amount mg/L	Area µS*min	Height µS	Type
1	15.91	**Iodide**	5.6616	0.120	0.197	BMB



CCV
387137

Sample Name:	**CCV**	Injection Volume (uL):	**1000.00**
Vial Number:	**22**	Channel:	**ECD_1**
Sample Type:	Unknown	Calibration:	**06/28/24 08:35**
Control ro! ram:	**I" # I# $**	**$**luent Stock:	**386320**
%uanti**&(** etho**)** :	C* L+I" # I# **$, -**	# ilution **.** actor	**1.0000**
/ ecor**)** in**!** Time:	**07/06/2024 03:32**	Sample **0** ei**!** ht:	**1.0000**
/ un Time (min):	**12', ,**	Sy**3**tem Name:	**Aquion_IC**

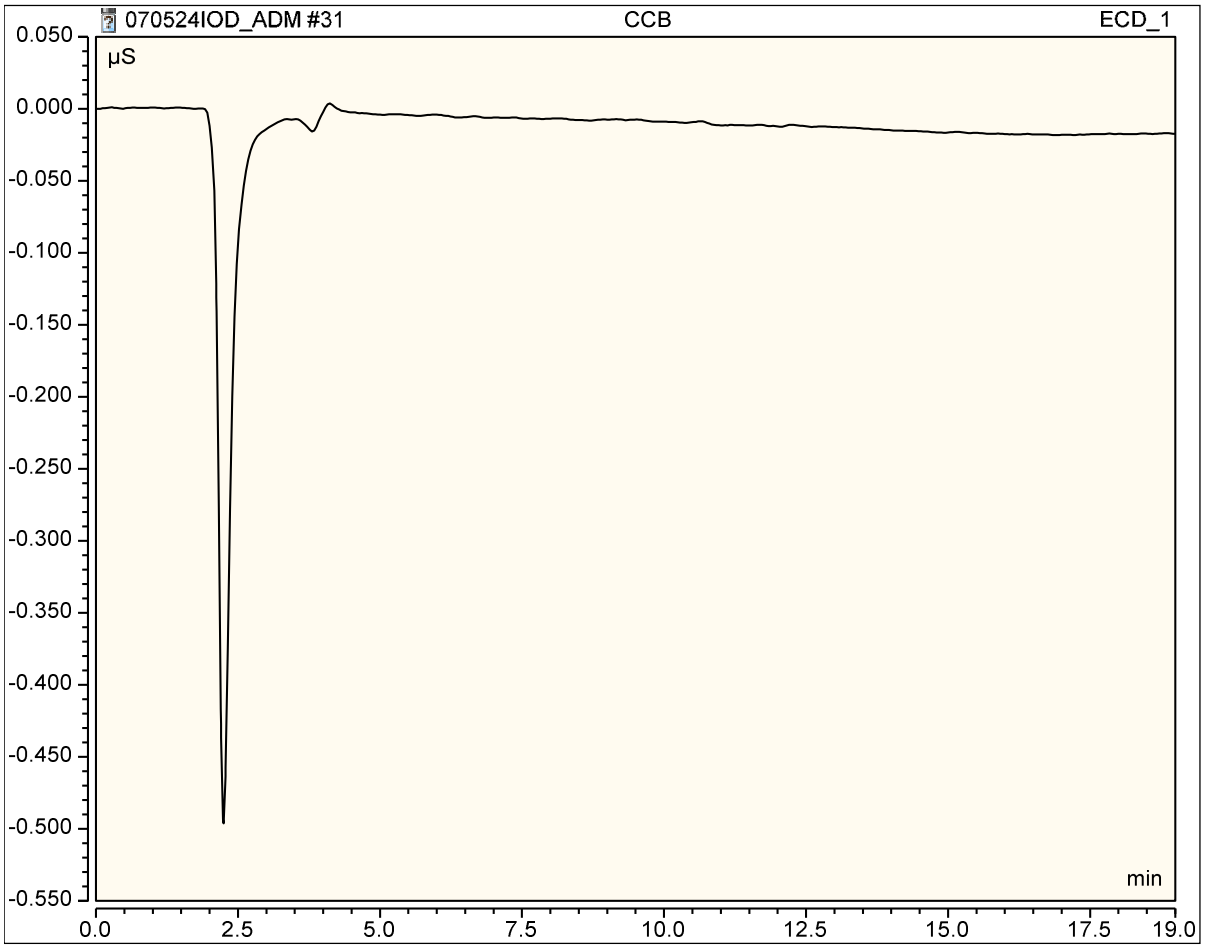
No.	Retention Time min	Name	Amount mg/L	Area µS*min	Height µS	Type
1	16.02	**Iodide**	1.0294	0.020	0.037	BMB



CCB
340111

Sample Name:	**CCB**	Injection Volume (uL):	**1000.00**
Vial Number:	***4,***	Channel:	**ECD_1**
Sample Type:	Unknown	Calibration:	**06/28/24 08:35**
Control ro*!* ram:	**I" # I#*$***	***$***luent Stock:	**386320**
%uanti***&(*** etho***)*** :	C* L+I" # I#***$*, -**	**#** ilution **.** actor	**1.0000**
/ ecor***)*** in***!*** Time:	**07/06/2024 03:54**	Sample ***0*** ei***!*** ht:	**1.0000**
/ un Time (min):	***12', ,***	Sy***3***tem Name:	**Aquion_IC**

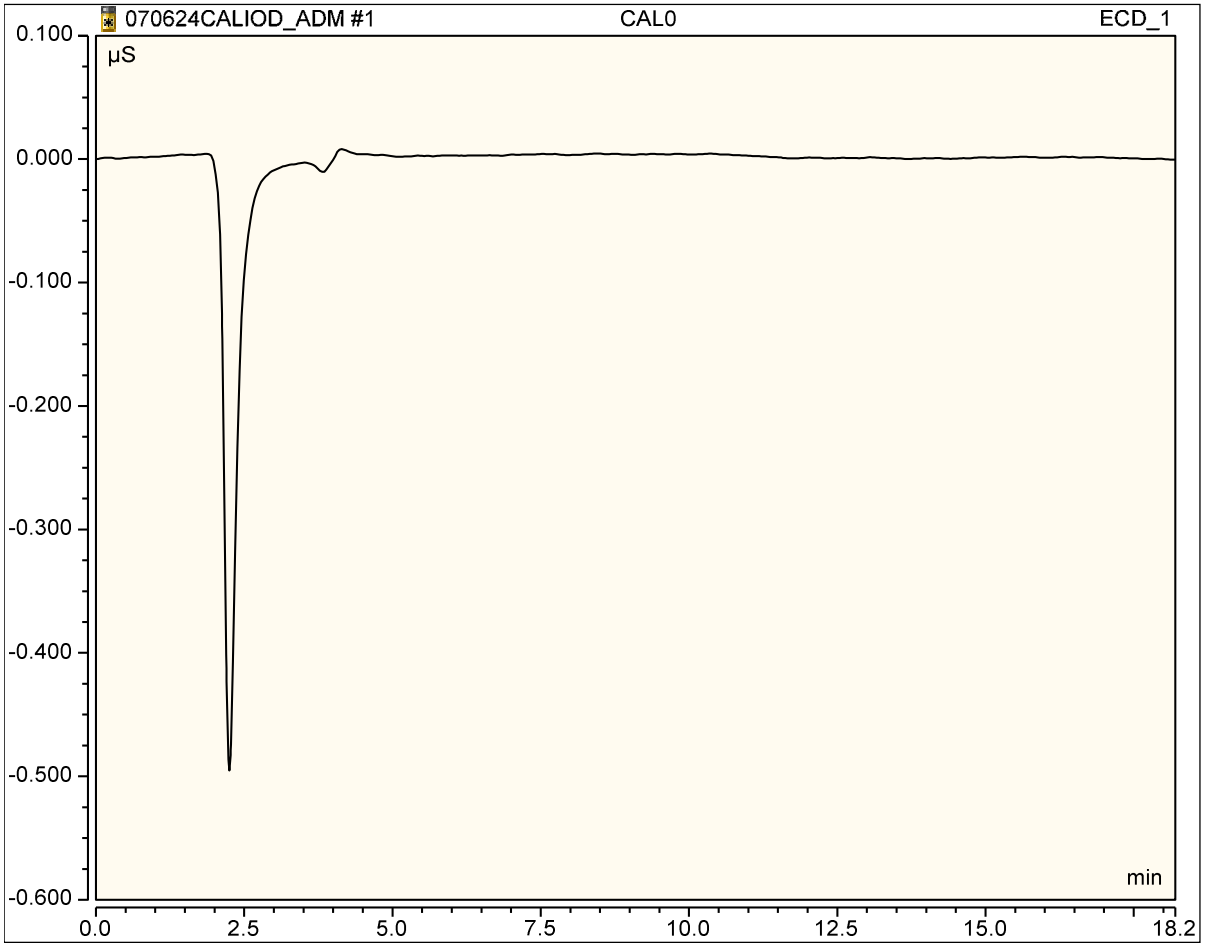
No.	Retention Time min	Name	Amount n.a.	Area µS*min	Height µS	Type



CAL0
386549

Sample Name:	**CAL0**	*Injection Volume (uL):*	**1000.00**
Vial Number:	*1*	*Channel:*	**ECD_1**
Sample Type:	*Calibration Standard*	*Calibration:*	**07/06/24 17:43**
Control Program:	*IODIDE*	*Eluent Stock:*	**386320**
Quantif. Method:	*CAL_IODIDE07*	*Dilution Factor*	**1.0000**
Recording Time:	**07/06/2024 11:31**	*Sample Weight:*	**1.0000**
Run Time (min):	*18.20*	*System Name:*	**Aquion_IC**

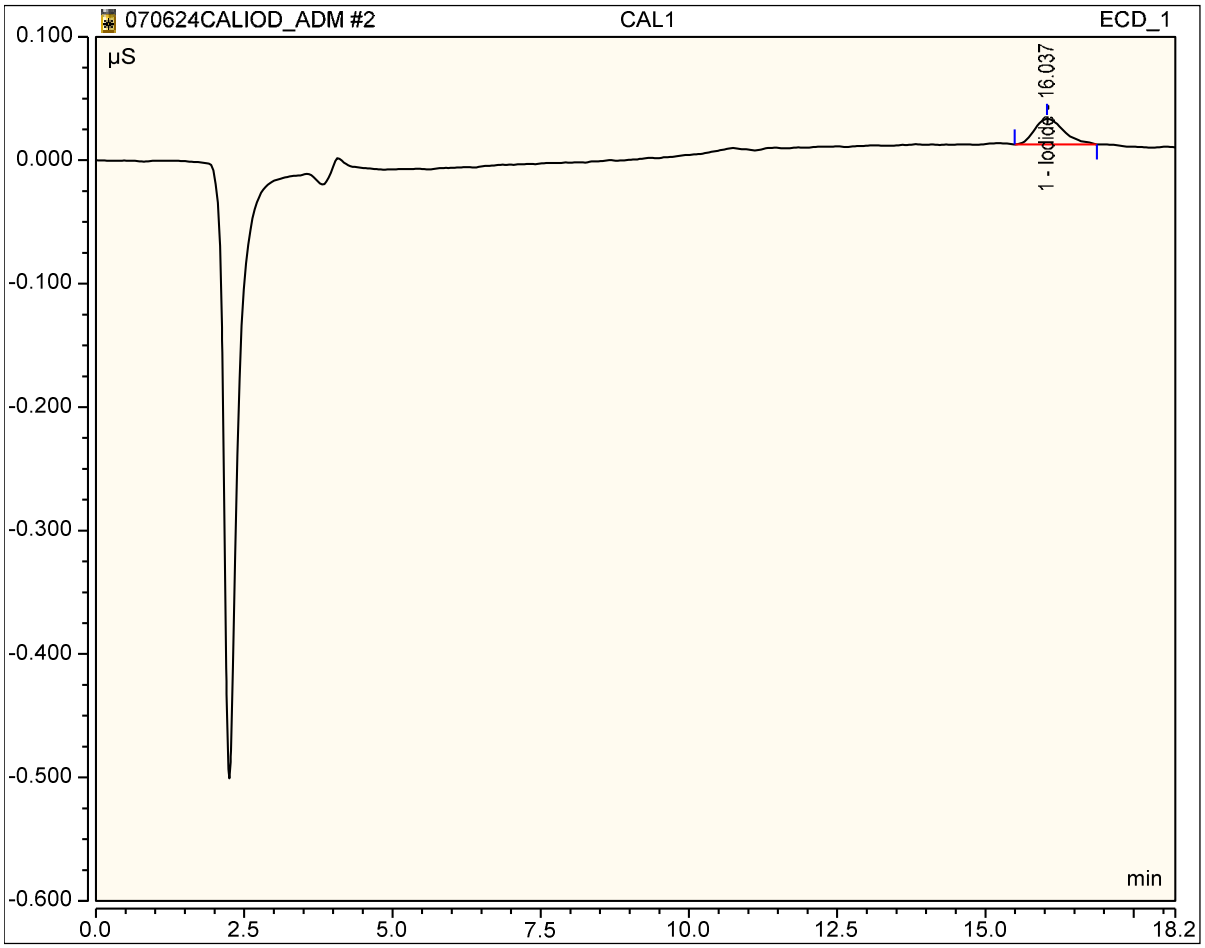
No.	Retention Time min	Name	Amount n.a.	Area µS*min	Height µS	Type



CAL1
386548

Sample Name:	**CAL1**	*Injection Volume (uL):*	**1000.00**
Vial Number:	*2*	*Channel:*	**ECD_1**
Sample Type:	*Calibration Standard*	*Calibration:*	**07/06/24 17:43**
Control Program:	*IODIDE*	*Eluent Stock:*	**386320**
Quantif. Method:	*CAL_IODIDE07*	*Dilution Factor*	**1.0000**
Recording Time:	**07/06/2024 11:52**	*Sample Weight:*	**1.0000**
Run Time (min):	*18.20*	*System Name:*	**Aquion_IC**

No.	Retention Time min	Name	Amount mg/L	Area µS*min	Height µS	Type
1	16.04	**Iodide**	0.5084	0.012	0.021	BMB



CAL2
386550

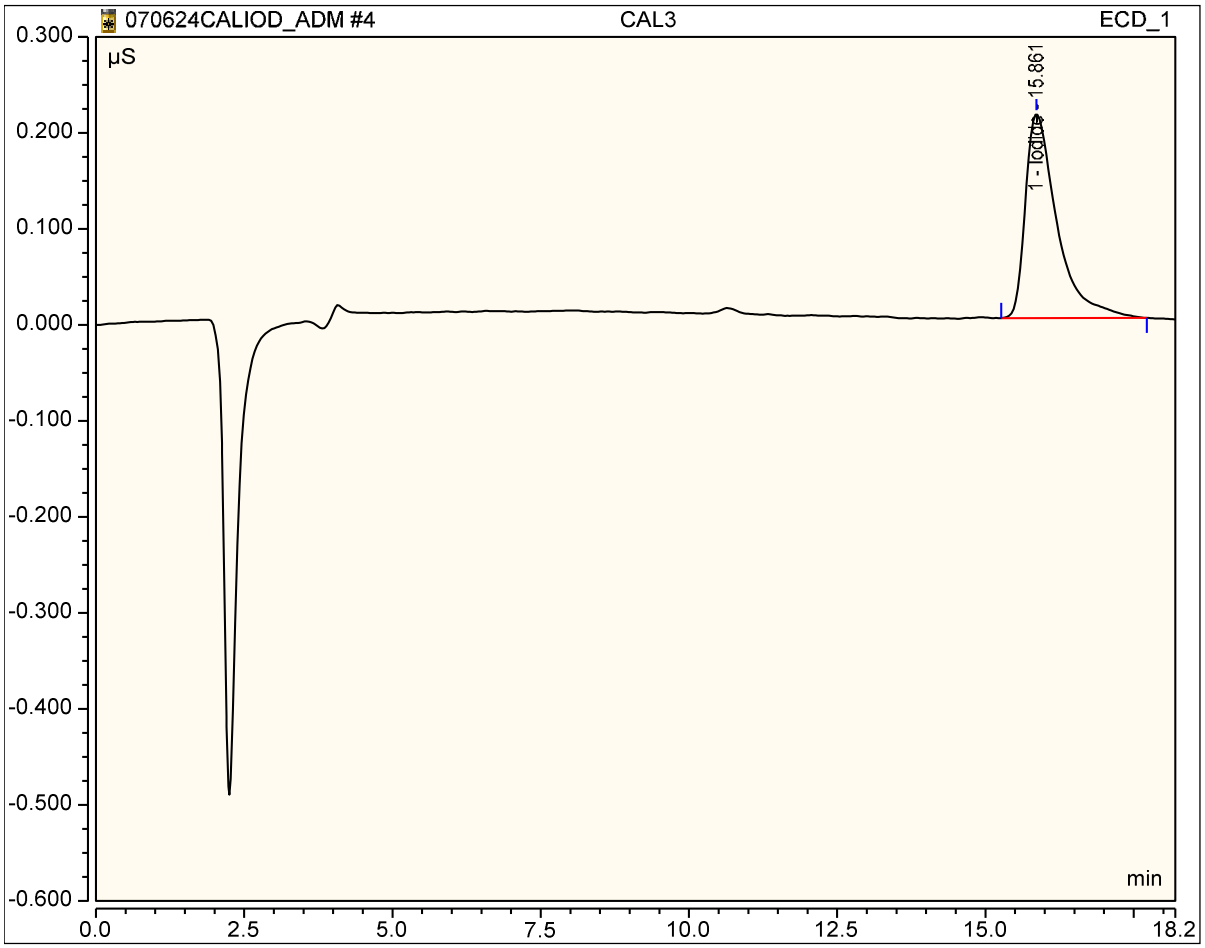
Sample Name:	**CAL2**	*Injection Volume (uL):*	**1000.00**
Vial Number:	*3*	*Channel:*	**ECD_1**
Sample Type:	*Calibration Standard*	*Calibration:*	**07/06/24 17:43**
Control Program:	*IODIDE*	*Eluent Stock:*	**386320**
Quantif. Method:	*CAL_IODIDE07*	*Dilution Factor*	**1.0000**
Recording Time:	**07/06/2024 12:13**	*Sample Weight:*	**1.0000**
Run Time (min):	*18.20*	*System Name:*	**Aquion_IC**

No.	Retention Time min	Name	Amount mg/L	Area µS*min	Height µS	Type
1	16.00	**Iodide**	0.9749	0.024	0.039	BMB

CAL3
386551

Sample Name:	**CAL3**	*Injection Volume (uL):*	**1000.00**
Vial Number:	*4*	*Channel:*	**ECD_1**
Sample Type:	*Calibration Standard*	*Calibration:*	**07/06/24 17:43**
Control Program:	*IODIDE*	*Eluent Stock:*	**386320**
Quantif. Method:	*CAL_IODIDE07*	*Dilution Factor*	**1.0000**
Recording Time:	**07/06/2024 12:34**	*Sample Weight:*	**1.0000**
Run Time (min):	*18.20*	*System Name:*	**Aquion_IC**

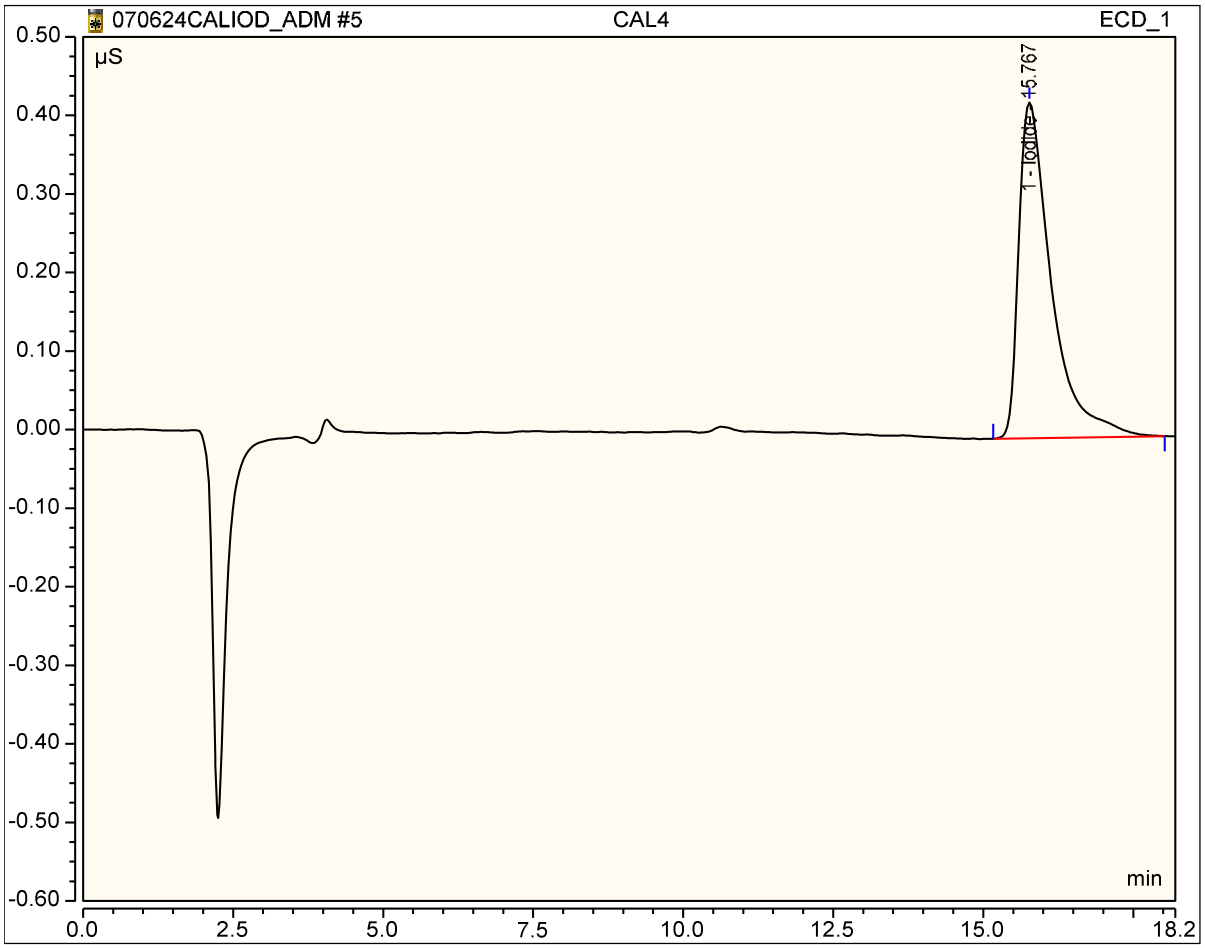
No.	Retention Time min	Name	Amount mg/L	Area µS*min	Height µS	Type
1	15.86	**Iodide**	4.9851	0.131	0.213	BMB



CAL4
386552

Sample Name:	**CAL4**	*Injection Volume (uL):*	**1000.00**
Vial Number:	*5*	*Channel:*	**ECD_1**
Sample Type:	*Calibration Standard*	*Calibration:*	**07/06/24 17:43**
Control Program:	*IODIDE*	*Eluent Stock:*	**386320**
Quantif. Method:	*CAL_IODIDE07*	*Dilution Factor*	**1.0000**
Recording Time:	**07/06/2024 12:55**	*Sample Weight:*	**1.0000**
Run Time (min):	*18.20*	*System Name:*	**Aquion_IC**

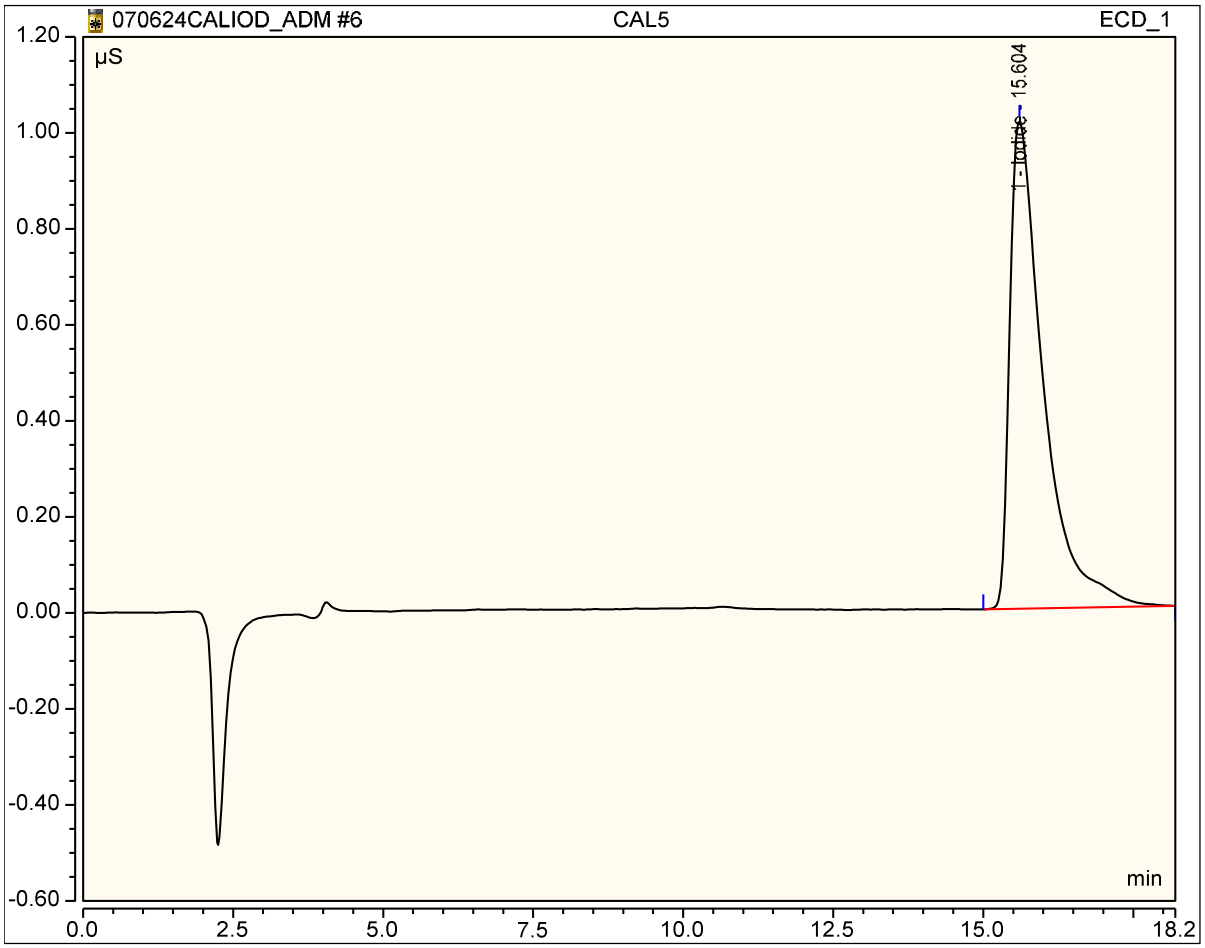
No.	Retention Time min	Name	Amount mg/L	Area µS*min	Height µS	Type
1	15.77	**Iodide**	10.1665	0.269	0.427	BMB



CAL5
386553

Sample Name:	**CAL5**	*Injection Volume (uL):*	**1000.00**
Vial Number:	*6*	*Channel:*	**ECD_1**
Sample Type:	*Calibration Standard*	*Calibration:*	**07/06/24 17:43**
Control Program:	*IODIDE*	*Eluent Stock:*	**386320**
Quantif. Method:	*CAL_IODIDE07*	*Dilution Factor*	**1.0000**
Recording Time:	**07/06/2024 13:16**	*Sample Weight:*	**1.0000**
Run Time (min):	*18.20*	*System Name:*	**Aquion_IC**

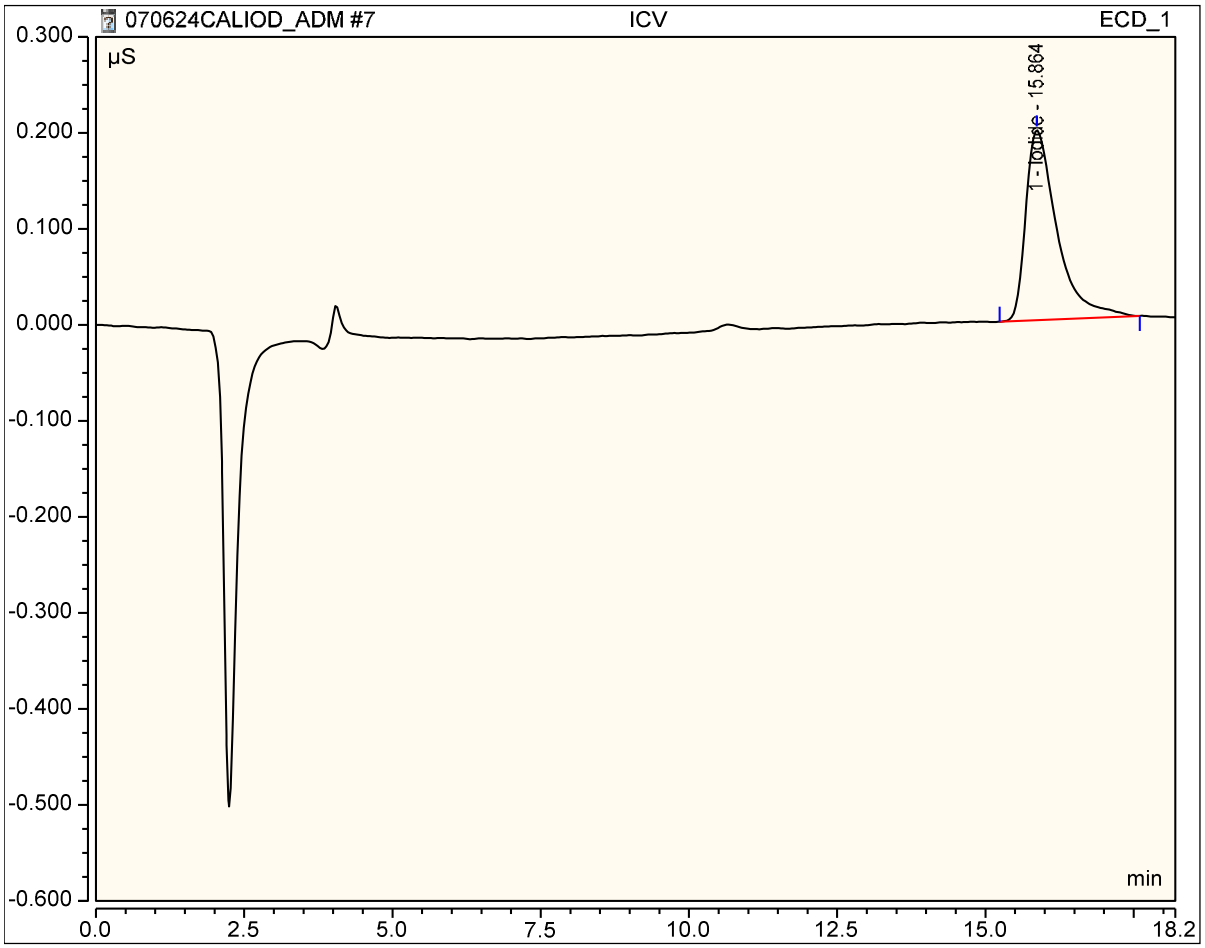
No.	Retention Time min	Name	Amount mg/L	Area µS*min	Height µS	Type
1	15.60	**Iodide**	24.8651	0.660	1.017	BMB



ICV
371401

Sample Name:	**ICV**	*Injection Volume (uL):*	**1000.00**
Vial Number:	*7*	*Channel:*	**ECD_1**
Sample Type:	*Unknown*	*Calibration:*	**07/06/24 17:43**
Control Program:	*IODIDE*	*Eluent Stock:*	**386320**
Quantif. Method:	*CAL_IODIDE07*	*Dilution Factor*	**1.0000**
Recording Time:	**07/06/2024 13:37**	*Sample Weight:*	**1.0000**
Run Time (min):	*18.20*	*System Name:*	**Aquion_IC**

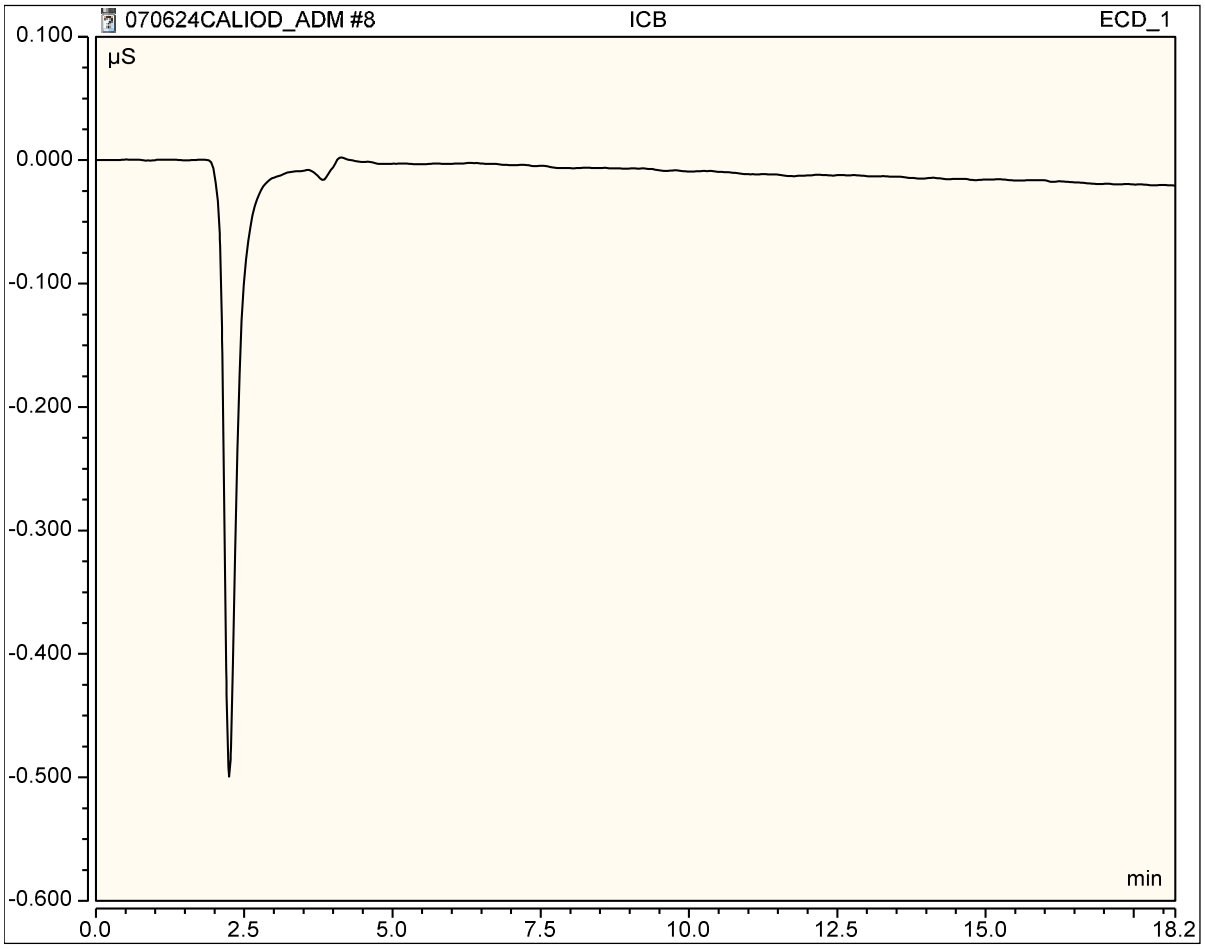
No.	Retention Time min	Name	Amount mg/L	Area µS*min	Height µS	Type
1	15.86	**Iodide**	4.5991	0.121	0.198	BMB



ICB
340111

Sample Name:	**ICB**	*Injection Volume (uL):*	**1000.00**
Vial Number:	*8*	*Channel:*	**ECD_1**
Sample Type:	*Unknown*	*Calibration:*	**07/06/24 17:43**
Control Program:	*IODIDE*	*Eluent Stock:*	**386320**
Quantif. Method:	*CAL_IODIDE07*	*Dilution Factor*	**1.0000**
Recording Time:	**07/06/2024 13:58**	*Sample Weight:*	**1.0000**
Run Time (min):	*18.20*	*System Name:*	**Aquion_IC**

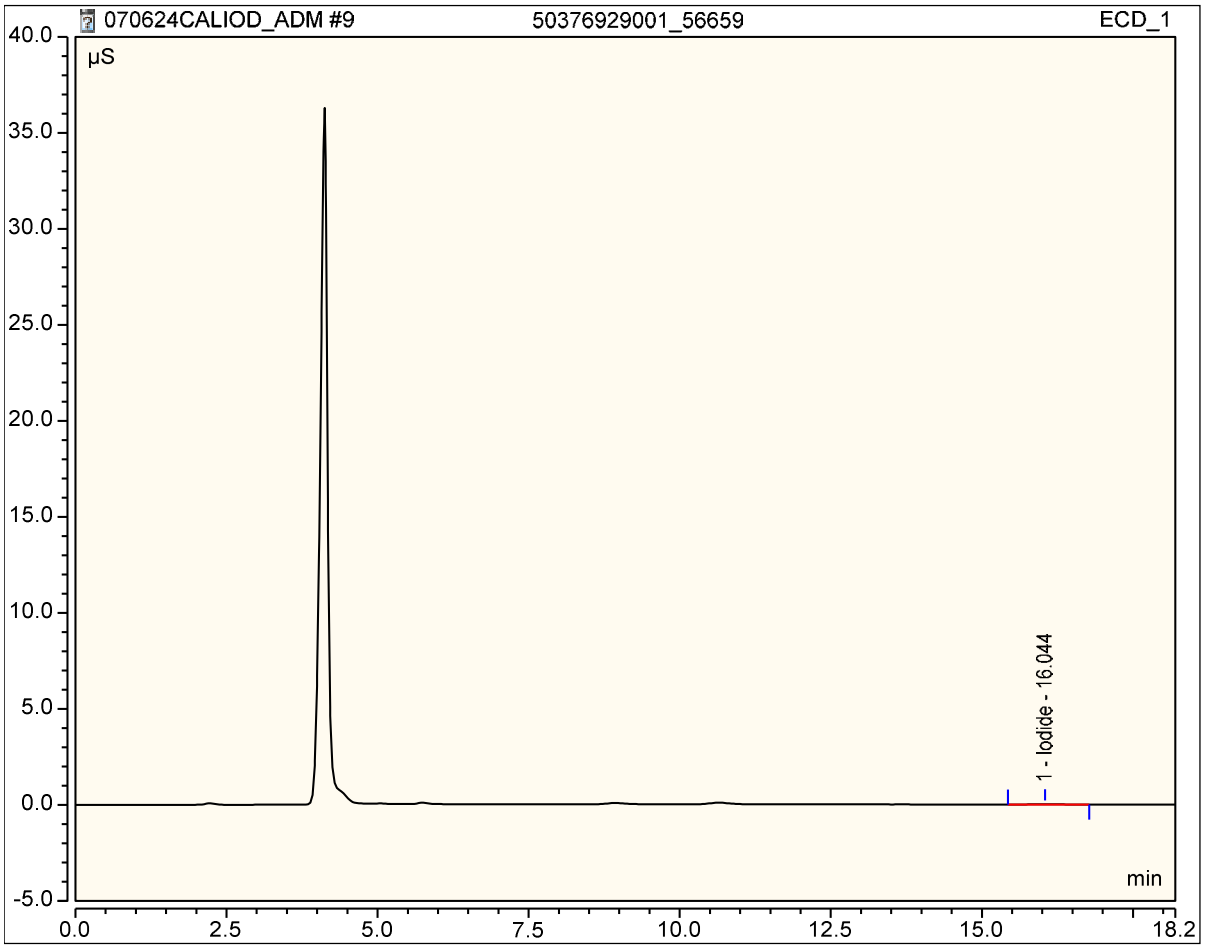
No.	Retention Time min	Name	Amount n.a.	Area µS*min	Height µS	Type



50376929001_56659

Sample Name:	**50376929001_56659**	*Injection Volume (uL):*	**1000.00**
Vial Number:	*11*	*Channel:*	**ECD_1**
Sample Type:	*Unknown*	*Calibration:*	**07/06/24 17:43**
Control Program:	*IODIDE*	*Eluent Stock:*	**386320**
Quantif. Method:	*CAL_IODIDE07*	*Dilution Factor*	**1.0000**
Recording Time:	**07/06/2024 14:19**	*Sample Weight:*	**1.0000**
Run Time (min):	*18.20*	*System Name:*	**Aquion_IC**

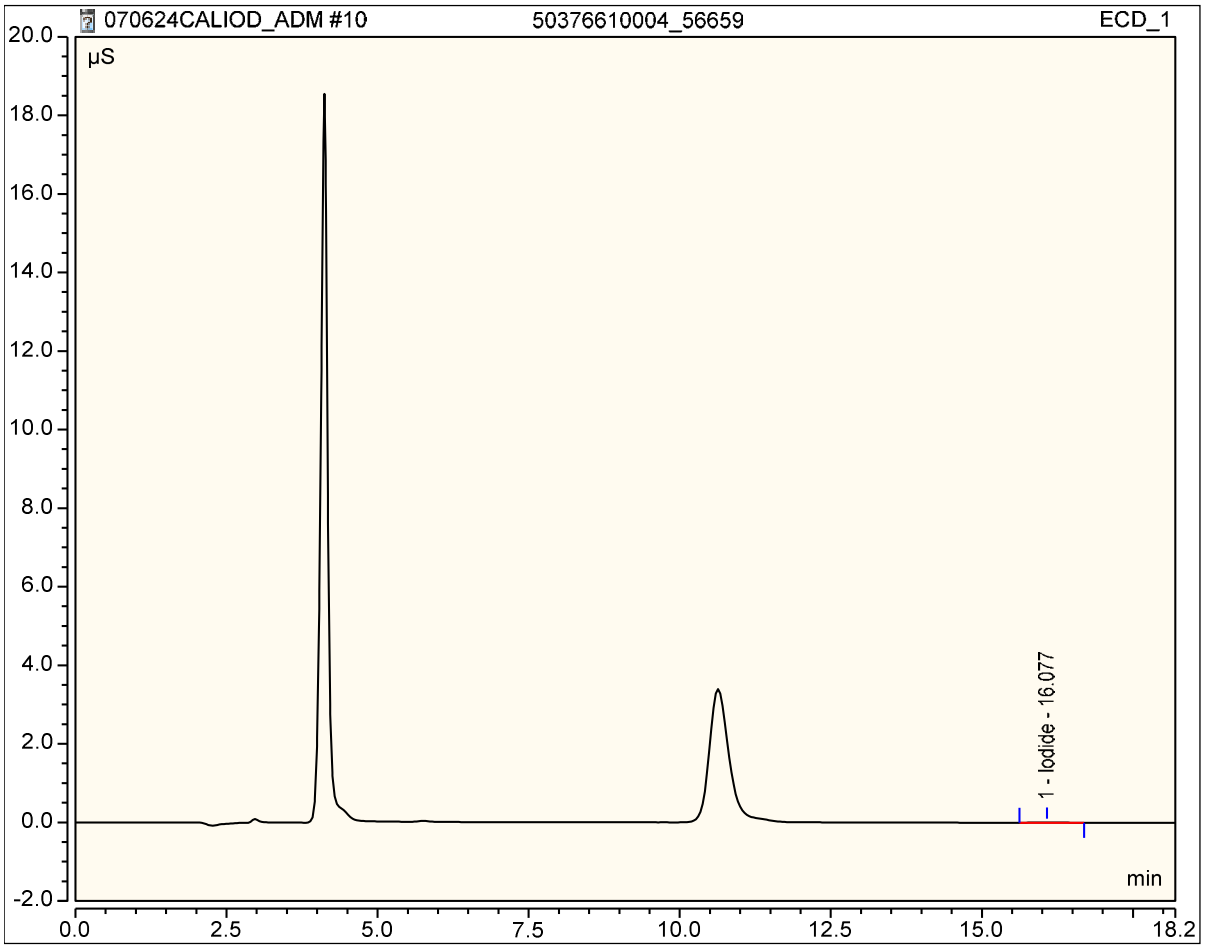
No.	Retention Time min	Name	Amount mg/L	Area µS*min	Height µS	Type
1	16.04	**Iodide**	0.3203	0.007	0.014	BMB



50376610004_56659

Sample Name:	**50376610004_56659**	*Injection Volume (uL):*	**1000.00**
Vial Number:	*12*	*Channel:*	**ECD_1**
Sample Type:	*Unknown*	*Calibration:*	**07/06/24 17:43**
Control Program:	*IODIDE*	*Eluent Stock:*	**386320**
Quantif. Method:	*CAL_IODIDE07*	*Dilution Factor*	**1.0000**
Recording Time:	**07/06/2024 14:41**	*Sample Weight:*	**1.0000**
Run Time (min):	*18.20*	*System Name:*	**Aquion_IC**

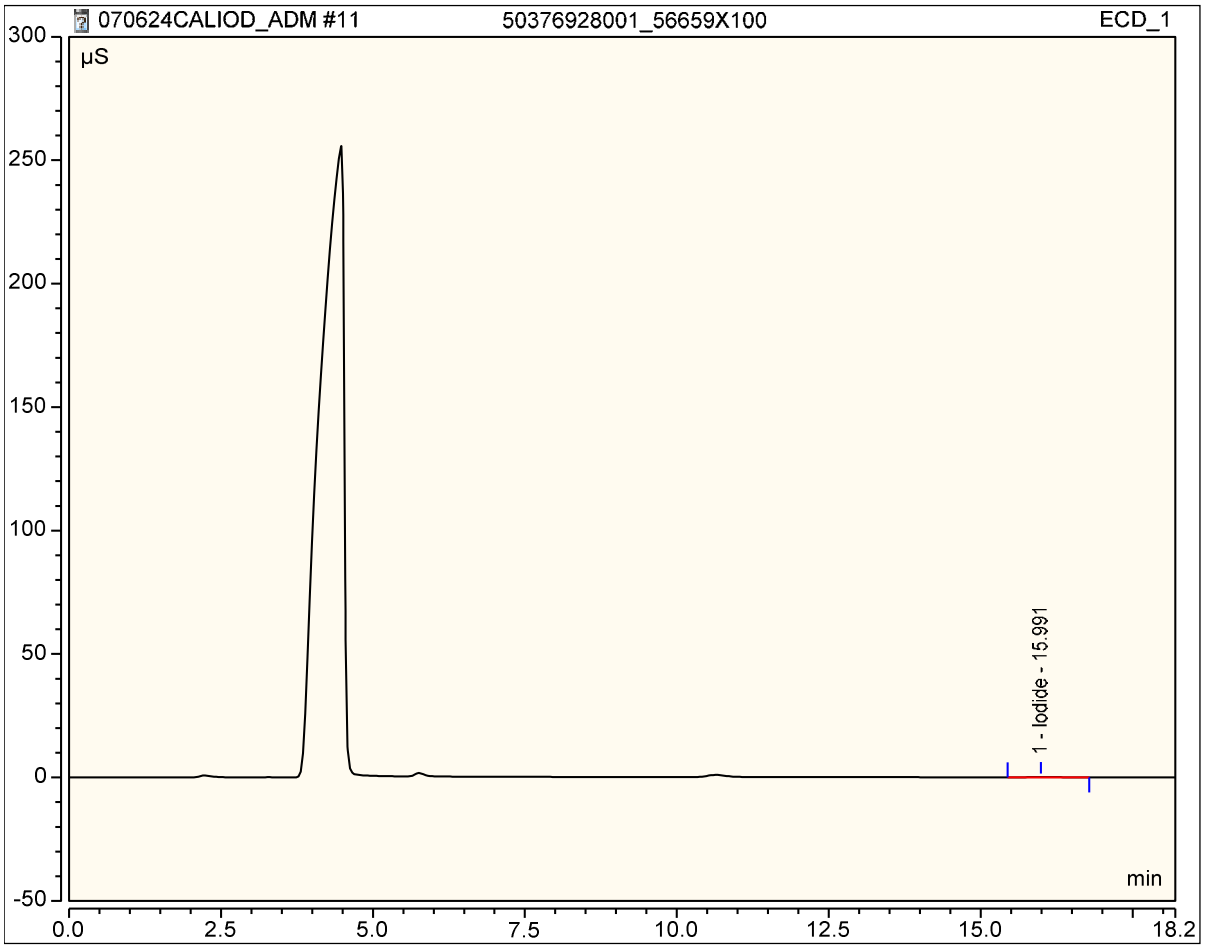
No.	Retention Time min	Name	Amount mg/L	Area µS*min	Height µS	Type
1	16.08	**Iodide**	0.2424	0.005	0.009	BMB



50376928001_56659X100

Sample Name:	**50376928001_56659X100**	*Injection Volume (uL):*	**1000.00**
Vial Number:	*13*	*Channel:*	**ECD_1**
Sample Type:	*Unknown*	*Calibration:*	**07/06/24 17:43**
Control Program:	*IODIDE*	*Eluent Stock:*	**386320**
Quantif. Method:	*CAL_IODIDE07*	*Dilution Factor*	**1.0000**
Recording Time:	**07/06/2024 15:02**	*Sample Weight:*	**1.0000**
Run Time (min):	*18.20*	*System Name:*	**Aquion_IC**

No.	Retention Time min	Name	Amount mg/L	Area µS*min	Height µS	Type
1	15.99	**Iodide**	0.8169	0.020	0.038	BMB



RINSE

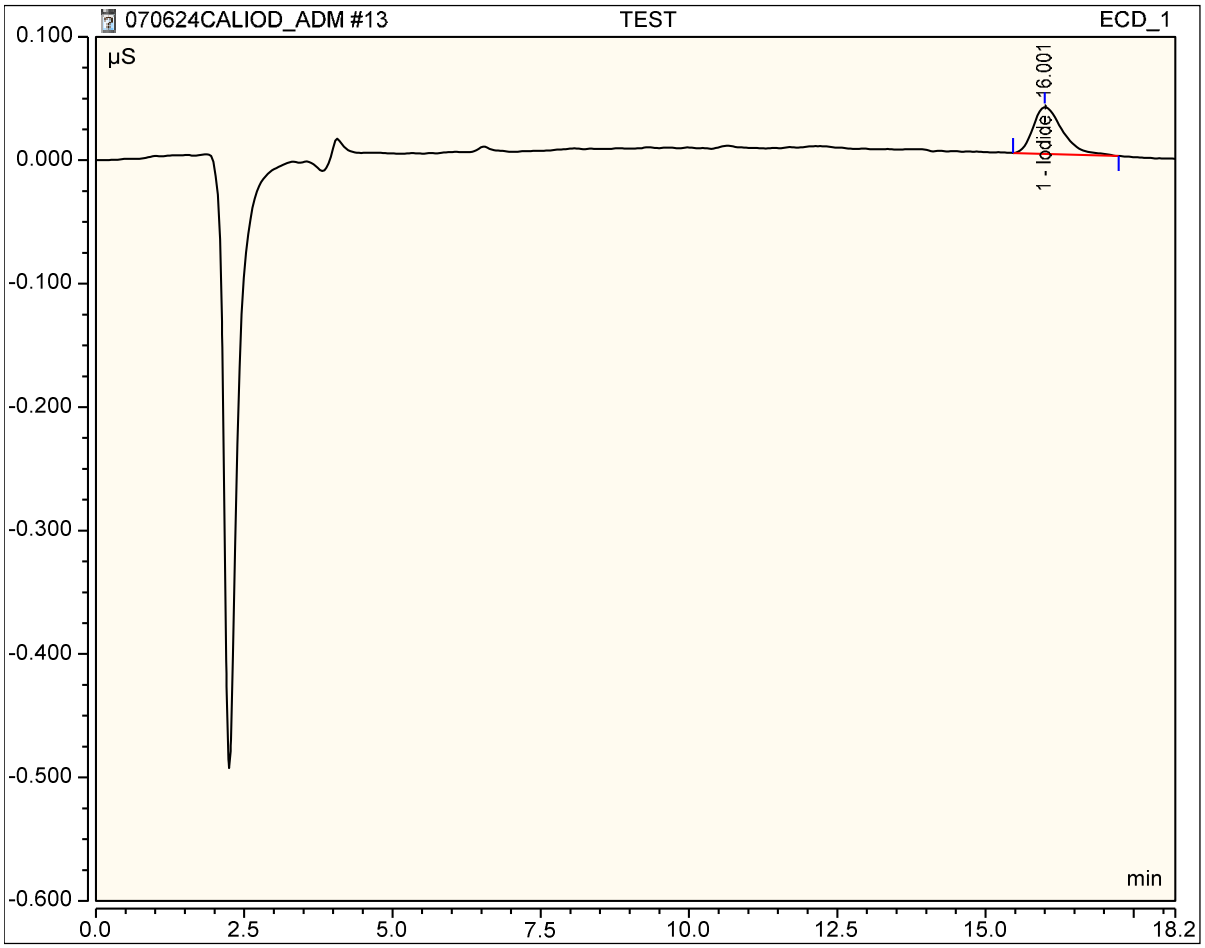
Sample Name:	**RINSE**	*Injection Volume (uL):*	**1000.00**
Vial Number:	*14*	*Channel:*	**ECD_1**
Sample Type:	*Unknown*	*Calibration:*	**07/06/24 17:43**
Control Program:	*IODIDE*	*Eluent Stock:*	**386320**
Quantif. Method:	*CAL_IODIDE07*	*Dilution Factor*	**1.0000**
Recording Time:	**07/06/2024 15:23**	*Sample Weight:*	**1.0000**
Run Time (min):	*18.20*	*System Name:*	**Aquion_IC**

No.	Retention Time min	Name	Amount n.a.	Area µS*min	Height µS	Type

TEST

Sample Name:	**TEST**	*Injection Volume (uL):*	**1000.00**
Vial Number:	*15*	*Channel:*	**ECD_1**
Sample Type:	*Unknown*	*Calibration:*	**07/06/24 17:43**
Control Program:	*IODIDE*	*Eluent Stock:*	**386320**
Quantif. Method:	*CAL_IODIDE07*	*Dilution Factor*	**1.0000**
Recording Time:	**07/06/2024 15:44**	*Sample Weight:*	**1.0000**
Run Time (min):	*18.20*	*System Name:*	**Aquion_IC**

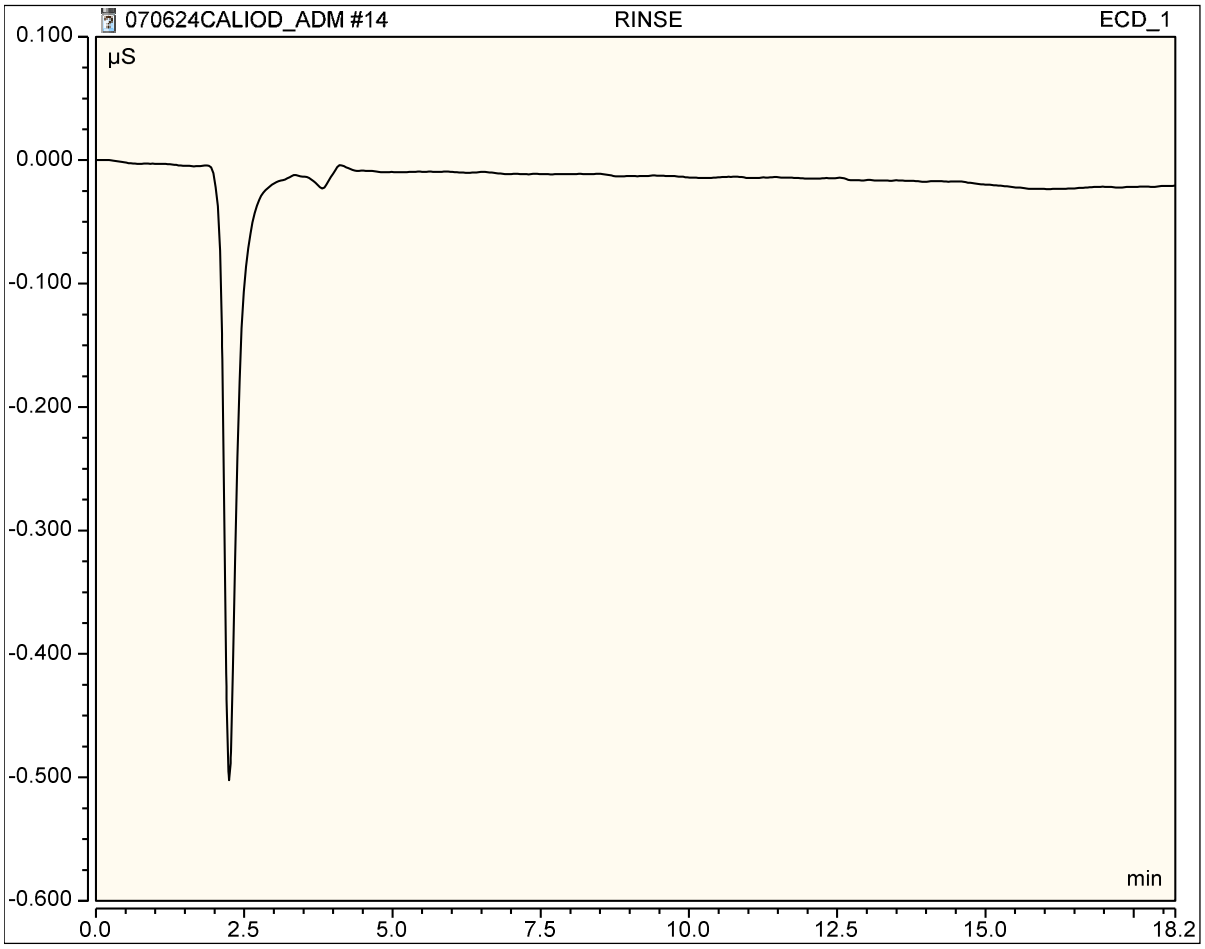
No.	Retention Time min	Name	Amount mg/L	Area µS*min	Height µS	Type
1	16.00	**Iodide**	0.8871	0.022	0.038	BMB



RINSE

Sample Name:	**RINSE**	*Injection Volume (uL):*	**1000.00**
Vial Number:	*16*	*Channel:*	**ECD_1**
Sample Type:	*Unknown*	*Calibration:*	**07/06/24 17:43**
Control Program:	*IODIDE*	*Eluent Stock:*	**386320**
Quantif. Method:	*CAL_IODIDE07*	*Dilution Factor*	**1.0000**
Recording Time:	**07/06/2024 16:05**	*Sample Weight:*	**1.0000**
Run Time (min):	*18.20*	*System Name:*	**Aquion_IC**

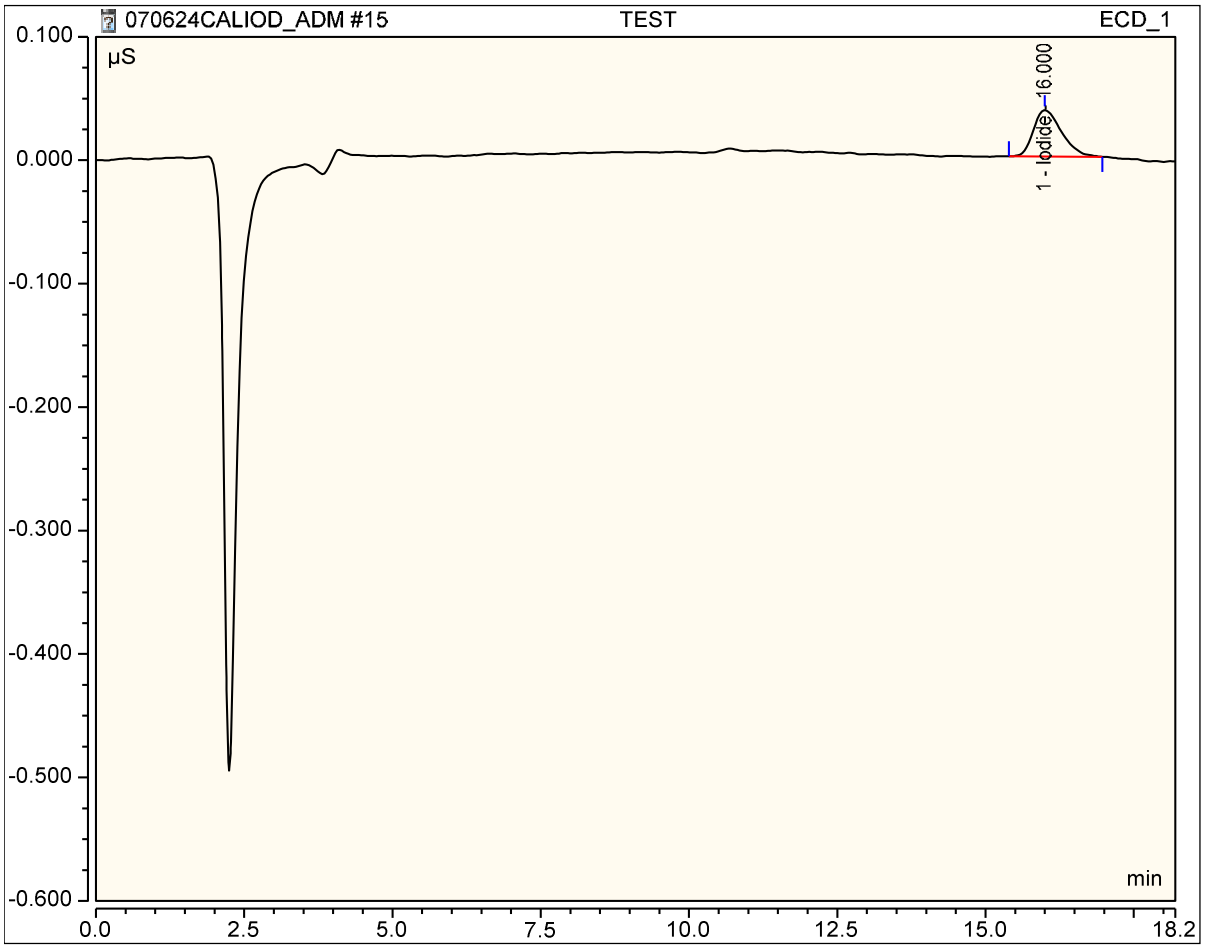
No.	Retention Time min	Name	Amount n.a.	Area µS*min	Height µS	Type



TEST

Sample Name:	**TEST**	*Injection Volume (uL):*	**1000.00**
Vial Number:	*20*	*Channel:*	**ECD_1**
Sample Type:	*Unknown*	*Calibration:*	**07/06/24 17:43**
Control Program:	*IODIDE*	*Eluent Stock:*	**386320**
Quantif. Method:	*CAL_IODIDE07*	*Dilution Factor*	**1.0000**
Recording Time:	**07/06/2024 16:26**	*Sample Weight:*	**1.0000**
Run Time (min):	*18.20*	*System Name:*	**Aquion_IC**

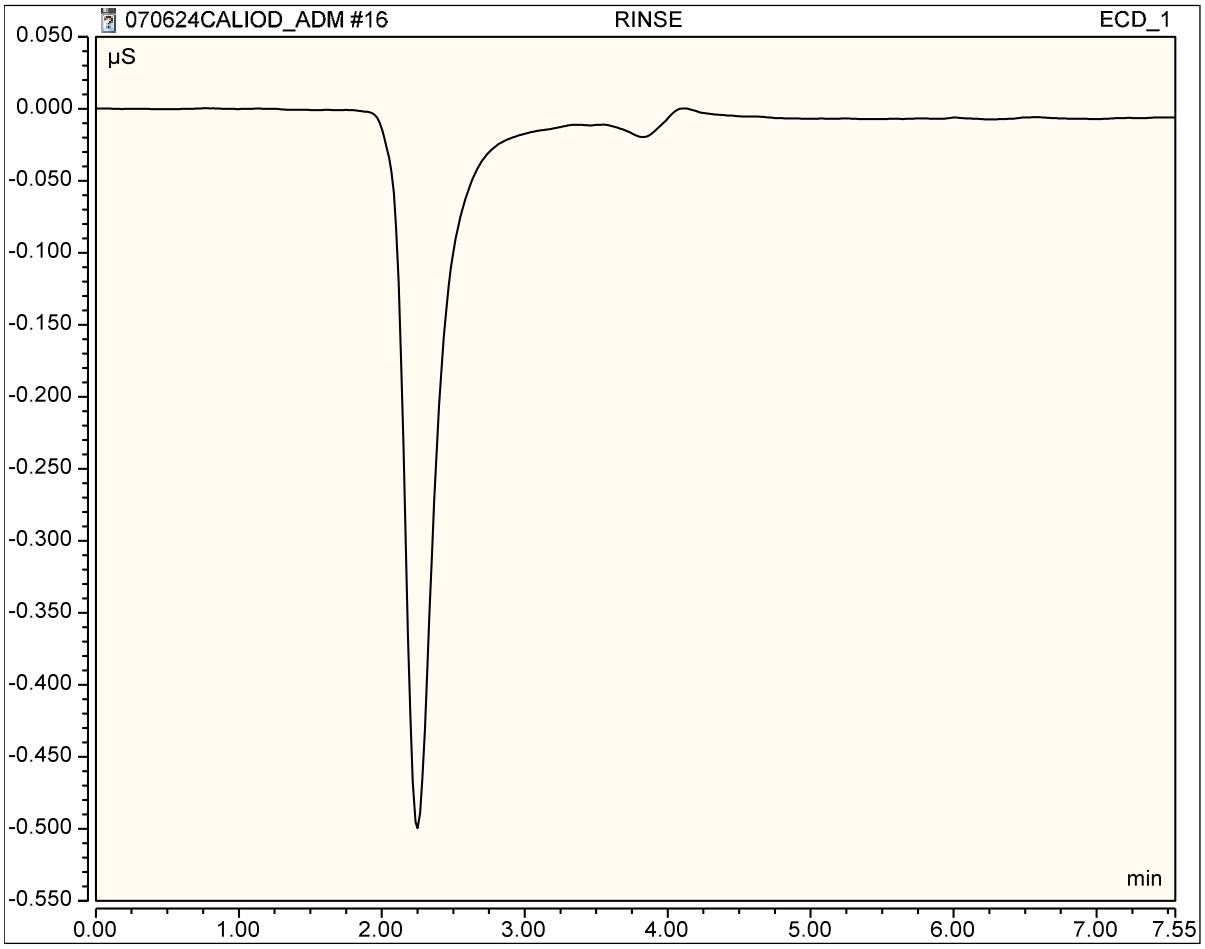
No.	Retention Time min	Name	Amount mg/L	Area µS*min	Height µS	Type
1	16.00	**Iodide**	0.8400	0.021	0.038	BMB



RINSE

Sample Name:	**RINSE**	*Injection Volume (uL):*	**1000.00**
Vial Number:	*21*	*Channel:*	**ECD_1**
Sample Type:	*Unknown*	*Calibration:*	**07/06/24 17:43**
Control Program:	*IODIDE*	*Eluent Stock:*	**386320**
Quantif. Method:	*CAL_IODIDE07*	*Dilution Factor*	**1.0000**
Recording Time:	**07/06/2024 16:47**	*Sample Weight:*	**1.0000**
Run Time (min):	*7.55*	*System Name:*	**Aquion_IC**

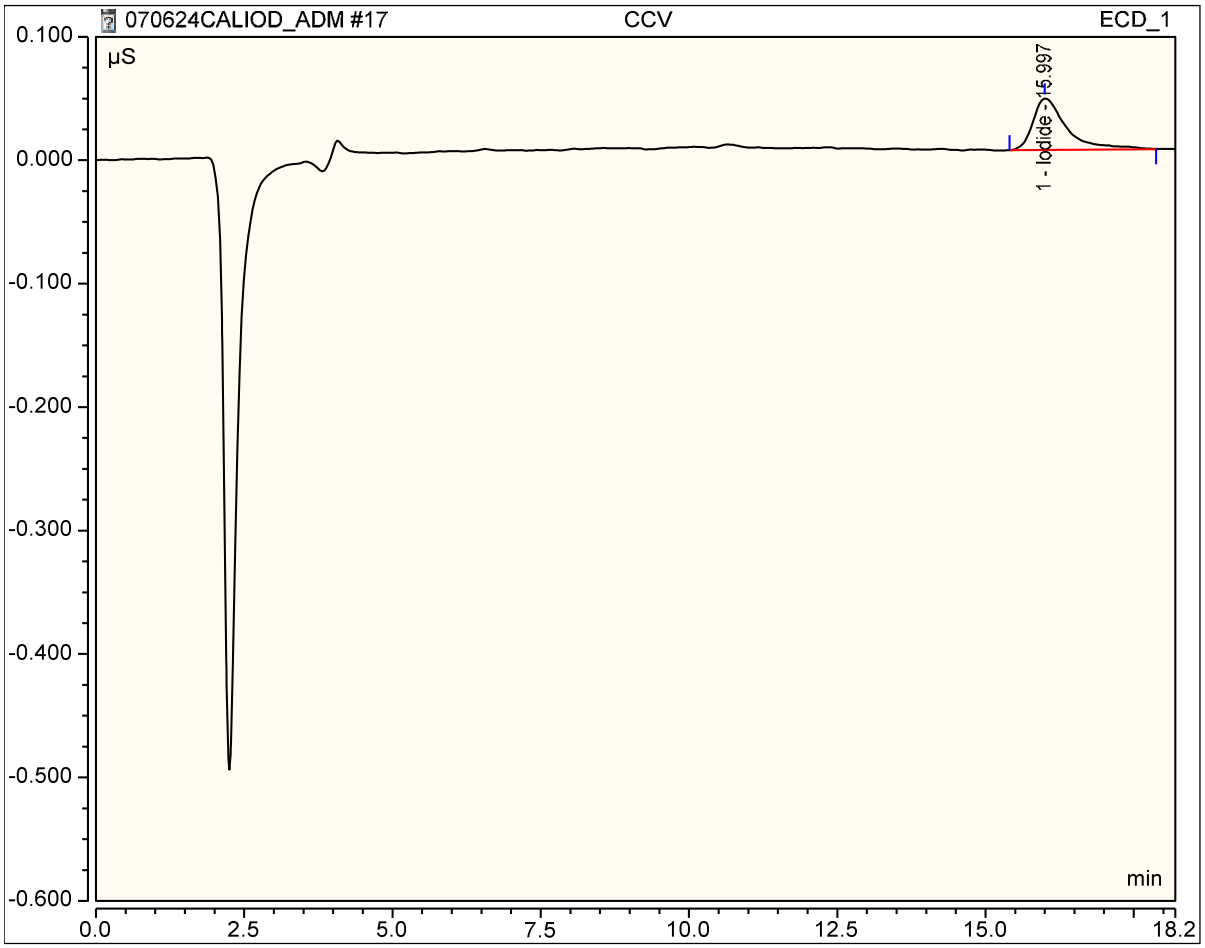
No.	Retention Time min	Name	Amount n.a.	Area µS*min	Height µS	Type



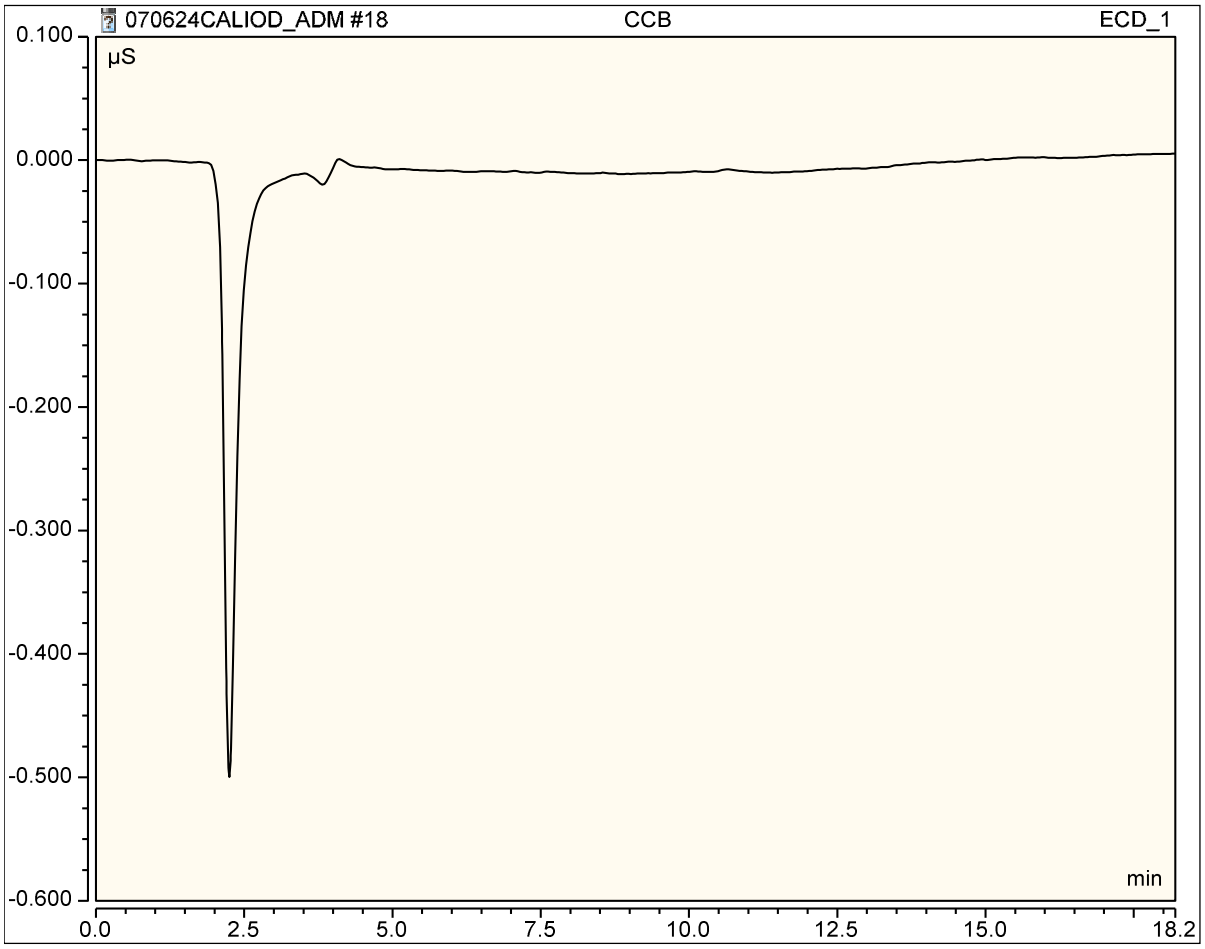
CCV
387137

Sample Name:	**CCV**	*Injection Volume (uL):*	**1000.00**
Vial Number:	*22*	*Channel:*	**ECD_1**
Sample Type:	*Unknown*	*Calibration:*	**07/06/24 17:43**
Control Program:	*IODIDE*	*Eluent Stock:*	**386320**
Quantif. Method:	*CAL_IODIDE07*	*Dilution Factor*	**1.0000**
Recording Time:	**07/06/2024 17:00**	*Sample Weight:*	**1.0000**
Run Time (min):	*18.20*	*System Name:*	**Aquion_IC**

No.	Retention Time min	Name	Amount mg/L	Area µS*min	Height µS	Type
1	16.00	**Iodide**	1.0925	0.027	0.042	BMB



CCB
340111

Sample Name:	**CCB**	*Injection Volume (uL):*	**1000.00**
Vial Number:	*25*	*Channel:*	**ECD_1**
Sample Type:	*Unknown*	*Calibration:*	**07/06/24 17:43**
Control Program:	*IODIDE*	*Eluent Stock:*	**386320**
Quantif. Method:	*CAL_IODIDE07*	*Dilution Factor*	**1.0000**
Recording Time:	**07/06/2024 17:20**	*Sample Weight:*	**1.0000**
Run Time (min):	*18.20*	*System Name:*	**Aquion_IC**

No.	Retention Time min	Name	Amount n.a.	Area µS*min	Height µS	Type