

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL102523\  
 Data File : VL040804.D  
 Acq On : 25 Oct 2023 17:33  
 Operator : SY/MD  
 Sample : 04699-15 0.45 MDL  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 MDL-AIR-03-QT4-2023DL

Quant Time: Oct 26 03:53:31 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL101123AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 26 06:05:16 2022  
 QLast Update : Thu Oct 12 00:21:08 2023  
 Response via : Initial Calibration

| Compound                | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------|--------|------|----------|--------|-------|----------|
| -----                   |        |      |          |        |       |          |
| Internal Standards      |        |      |          |        |       |          |
| 1) Bromochloromethane   | 5.189  | 49   | 927048   | 10.000 | ppbv  | -0.02    |
| 33) 1,4-Difluorobenzene | 6.642  | 114  | 2451821  | 10.000 | ppbv  | -0.03    |
| 55) Chlorobenzene-d5    | 11.449 | 117  | 2262749  | 10.000 | ppbv  | -0.03    |

|                             |        |       |          |          |      |          |
|-----------------------------|--------|-------|----------|----------|------|----------|
| System Monitoring Compounds |        |       |          |          |      |          |
| 68) 1-Bromo-4-Fluorobenzene | 13.754 | 95    | 1815217  | 10.902   | ppbv | -0.03    |
| Spiked Amount               | 10.000 | Range | 65 - 135 | Recovery | =    | 109.000% |

| Target Compounds              |       |     |        |       |        | Qvalue |
|-------------------------------|-------|-----|--------|-------|--------|--------|
| 2) Dichlorodifluoromethane    | 2.742 | 85  | 88174  | 0.540 | ppbv   | 91     |
| 3) Chlorodifluoromethane      | 2.687 | 51  | 76768  | 0.563 | ppbv   | 99     |
| 4) Chloromethane              | 2.825 | 50  | 25292  | 0.470 | ppbv   | 97     |
| 5) Vinyl Chloride             | 2.932 | 62  | 23906  | 0.430 | ppbv   | 99     |
| 6) Bromomethane               | 3.137 | 94  | 2154   | 0.094 | ppbv # | 1      |
| 7) Chloroethane               | 3.205 | 64  | 6464   | 0.357 | ppbv   | 96     |
| 8) Dichlorotetrafluoroethane  | 2.870 | 85  | 68866  | 0.556 | ppbv   | 99     |
| 9) Propene                    | 2.710 | 41  | 24409  | 0.482 | ppbv   | 98     |
| 10) Heptane                   | 7.562 | 43  | 9664   | 0.076 | ppbv # | 27     |
| 11) Trichlorofluoromethane    | 3.568 | 101 | 67549  | 0.536 | ppbv   | 95     |
| 12) 1,1,2-Trichlorotrifluo... | 4.070 | 101 | 46167  | 0.514 | ppbv   | 100    |
| 13) Ethanol                   | 3.266 | 45  | 3024   | 0.265 | ppbv # | 1      |
| 14) Bromoethene               | 3.372 | 108 | 18445  | 0.479 | ppbv # | 86     |
| 15) Acetone                   | 3.488 | 43  | 61404  | 0.641 | ppbv   | 94     |
| 16) 1,3-Butadiene             | 2.993 | 39  | 24008  | 0.478 | ppbv   | 92     |
| 17) tert-Butyl alcohol        | 3.899 | 59  | 37567  | 0.382 | ppbv # | 93     |
| 18) 1,1-Dichloroethene        | 3.880 | 96  | 19020  | 0.472 | ppbv   | 97     |
| 19) Isopropyl Alcohol         | 3.594 | 45  | 10913  | 0.177 | ppbv # | 53     |
| 20) Methylene Chloride        | 3.931 | 84  | 10903  | 0.273 | ppbv   | 94     |
| 21) Allyl Chloride            | 4.002 | 41  | 29678  | 0.470 | ppbv   | 96     |
| 22) trans-1,2-Dichloroethene  | 4.443 | 96  | 18606  | 0.434 | ppbv # | 80     |
| 23) Vinyl Acetate             | 4.629 | 43  | 25595  | 0.210 | ppbv # | 92     |
| 24) 1,1-Dichloroethane        | 4.562 | 63  | 41942  | 0.455 | ppbv   | 98     |
| 25) Ethyl Acetate             | 5.211 | 43  | 87895  | 0.419 | ppbv # | 94     |
| 26) Hexane                    | 5.214 | 57  | 20650  | 0.215 | ppbv # | 1      |
| 27) Carbon Disulfide          | 4.131 | 76  | 42444  | 0.401 | ppbv # | 71     |
| 28) Methyl tert-Butyl Ether   | 4.591 | 73  | 12723  | 0.170 | ppbv # | 30     |
| 29) Chloroform                | 5.272 | 83  | 38942  | 0.280 | ppbv   | 95     |
| 30) Cyclohexane               | 6.584 | 84  | 13781  | 0.169 | ppbv # | 1      |
| 31) cis-1,2-Dichloroethene    | 5.070 | 61  | 41747  | 0.472 | ppbv   | 95     |
| 32) 1,1,1-Trichloroethane     | 5.996 | 97  | 66787  | 0.452 | ppbv # | 92     |
| 34) 2-Butanone                | 4.793 | 43  | 56804  | 0.512 | ppbv   | 93     |
| 36) Benzene                   | 6.359 | 78  | 86384  | 0.458 | ppbv   | 96     |
| 37) 1,2-Dichloroethane        | 5.800 | 62  | 52898  | 0.548 | ppbv   | 98     |
| 38) Trichloroethene           | 7.279 | 130 | 25285  | 0.303 | ppbv   | 96     |
| 39) 1,2-Dichloropropane       | 7.060 | 63  | 30132  | 0.409 | ppbv # | 85     |
| 41) Tetrahydrofuran           | 5.571 | 42  | 14882  | 0.194 | ppbv # | 37     |
| 42) Bromodichloromethane      | 7.240 | 83  | 71891  | 0.497 | ppbv # | 93     |
| 43) Methyl Methacrylate       | 7.465 | 69  | 26212  | 0.347 | ppbv # | 72     |
| 44) 2,2,4-Trimethylpentane    | 7.314 | 57  | 152443 | 0.478 | ppbv   | 95     |
| 46) cis-1,3-Dichloropropene   | 8.127 | 75  | 20733  | 0.282 | ppbv   | 91     |
| 47) 1,1,2-Trichloroethane     | 8.880 | 97  | 19149  | 0.247 | ppbv # | 88     |
| 48) Dibromochloromethane      | 9.690 | 129 | 29083  | 0.224 | ppbv # | 10     |

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 Data File : VL040804.D  
 Acq On : 25 Oct 2023 17:33  
 Operator : SY/MD  
 Sample : 04699-15 0.45 MDL  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

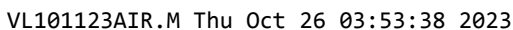
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 MDL-AIR-03-QT4-2023DL

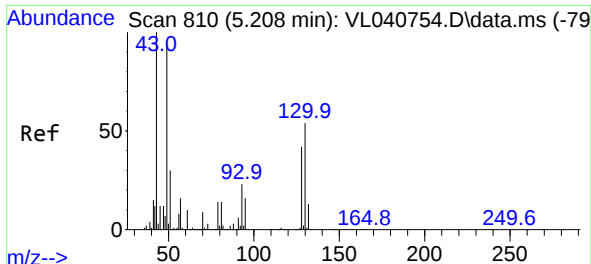
Quant Time: Oct 26 03:53:31 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL101123AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 26 06:05:16 2022  
 QLast Update : Thu Oct 12 00:21:08 2023  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc  | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|-------|--------|----------|
| 49) Bromoform                 | 12.391 | 173  | 37760    | 0.358 | ppbv   | 93       |
| 50) 4-Methyl-2-Pentanone      | 8.182  | 43   | 30379    | 0.160 | ppbv # | 39       |
| 51) 2-Hexanone                | 9.549  | 43   | 12652    | 0.088 | ppbv # | 29       |
| 52) Tetrachloroethene         | 10.594 | 164  | 16375    | 0.214 | ppbv   | 90       |
| 53) Toluene                   | 9.208  | 91   | 88784    | 0.396 | ppbv   | 97       |
| 54) 1,2-Dibromoethane         | 9.992  | 107  | 37863    | 0.349 | ppbv   | 91       |
| 56) 1,1,1,2-Tetrachloroethane | 11.487 | 131  | 29905    | 0.324 | ppbv # | 37       |
| 57) Chlorobenzene             | 11.507 | 112  | 82059    | 0.506 | ppbv   | 95       |
| 58) Ethyl Benzene             | 12.069 | 91   | 76878    | 0.270 | ppbv   | 89       |
| 59) m/p-Xylene                | 12.349 | 91   | 41883    | 0.179 | ppbv # | 30       |
| 60) o-Xylene                  | 13.040 | 91   | 103152   | 0.462 | ppbv   | 100      |
| 61) Styrene                   | 12.876 | 104  | 27210    | 0.220 | ppbv # | 43       |
| 62) Isopropylbenzene          | 14.008 | 105  | 164166   | 0.478 | ppbv   | 99       |
| 63) 1,1,2,2-Tetrachloroethane | 13.024 | 83   | 42901    | 0.256 | ppbv # | 24       |
| 64) n-propylbenzene           | 14.899 | 120  | 42285    | 0.458 | ppbv   | 68       |
| 65) tert-Butylbenzene         | 16.063 | 119  | 56304    | 0.182 | ppbv # | 17       |
| 66) Benzyl Chloride           | 16.301 | 91   | 2365     | 0.076 | ppbv # | 74       |
| 67) sec-Butylbenzene          | 16.616 | 105  | 203450   | 0.479 | ppbv   | 96       |
| 69) p-Isopropyltoluene        | 16.970 | 119  | 61345    | 0.172 | ppbv # | 47       |
| 70) n-Butylbenzene            | 17.870 | 91   | 166938   | 0.478 | ppbv   | 95       |
| 71) 2-Chlorotoluene           | 14.780 | 91   | 119772   | 0.464 | ppbv   | 100      |
| 72) 4-Ethyltoluene            | 15.175 | 105  | 112414   | 0.430 | ppbv # | 93       |
| 73) 1,3,5-Trimethylbenzene    | 15.336 | 105  | 102358   | 0.444 | ppbv   | 95       |
| 74) 1,2,4-Trimethylbenzene    | 16.085 | 105  | 117157   | 0.466 | ppbv # | 88       |
| 75) 1,3-Dichlorobenzene       | 16.314 | 146  | 66032    | 0.422 | ppbv   | 86       |
| 76) 1,4-Dichlorobenzene       | 16.452 | 146  | 66064    | 0.426 | ppbv   | 88       |
| 77) 1,2-Dichlorobenzene       | 17.127 | 146  | 67146    | 0.437 | ppbv   | 93       |
| 78) Hexachloro-1,3-Butadiene  | 22.596 | 225  | 25299    | 0.230 | ppbv # | 18       |
| 79) Naphthalene               | 21.362 | 128  | 15871    | 0.078 | ppbv # | 87       |
| 81) 1,2,4-Trichlorobenzene    | 21.120 | 180  | 17053    | 0.154 | ppbv # | 11       |

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

Quant Time: Oct 26 03:53:31 2023  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL101123AIR.M  
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_LFri Aug 26 06:05:16 2022  
QLast Update : Thu Oct 12 00:21:08 2023  
Response via : Initial Calibration

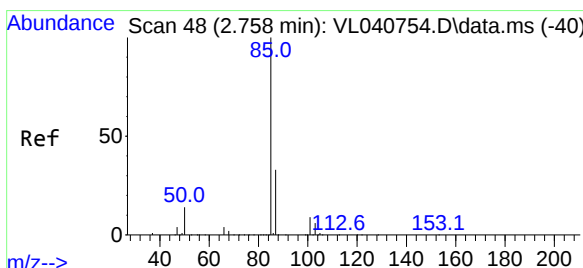
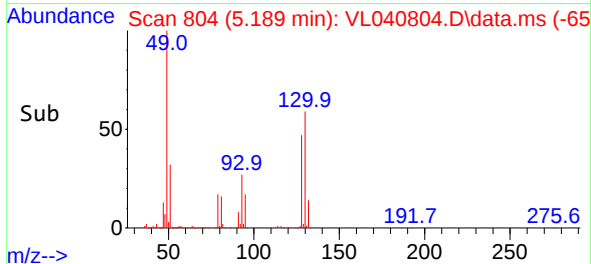
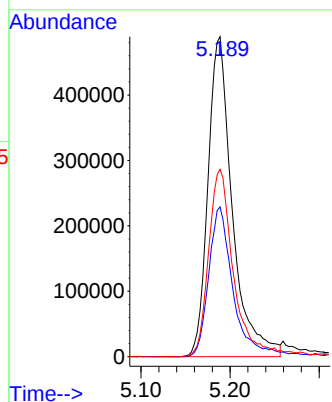
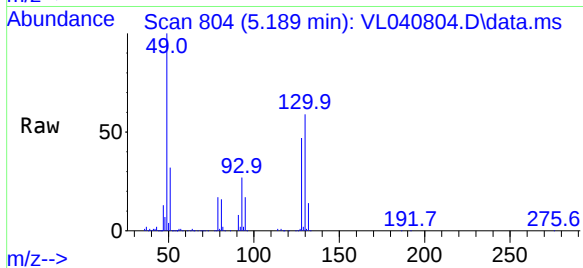




#1  
Bromochloromethane  
Concen: 10.000 ppbv  
RT: 5.189 min Scan# 80  
Delta R.T. -0.019 min  
Lab File: VL040804.D  
Acq: 25 Oct 2023 17:33

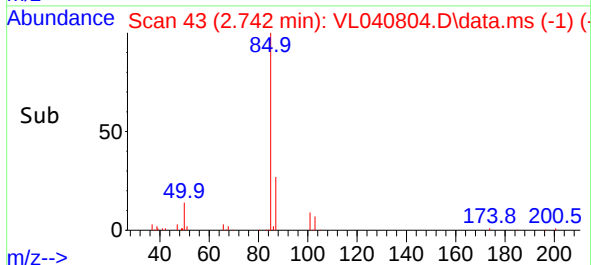
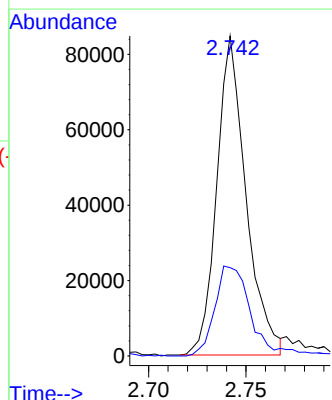
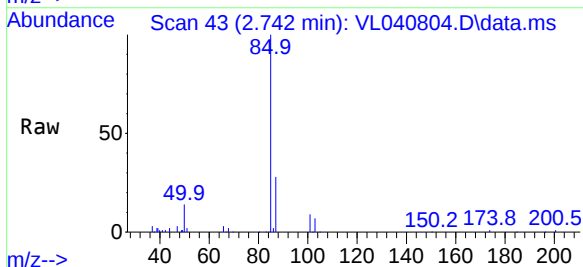
Instrument :  
MSVOA\_L  
ClientSampleId :  
MDL-AIR-03-QT4-2023DL

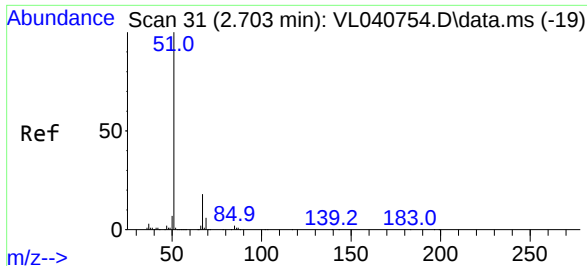
Tgt Ion: 49 Resp: 927048  
Ion Ratio Lower Upper  
49 100  
128 48.3 23.9 71.7  
130 60.8 30.7 92.1



#2  
Dichlorodifluoromethane  
Concen: 0.540 ppbv  
RT: 2.742 min Scan# 43  
Delta R.T. -0.016 min  
Lab File: VL040804.D  
Acq: 25 Oct 2023 17:33

Tgt Ion: 85 Resp: 88174  
Ion Ratio Lower Upper  
85 100  
87 27.7 26.0 39.0

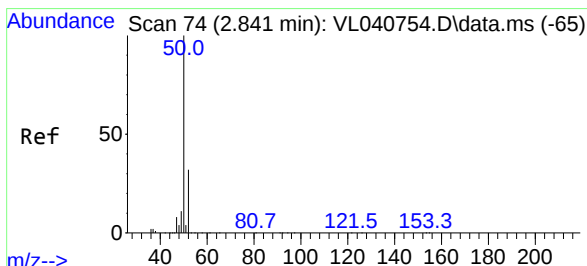
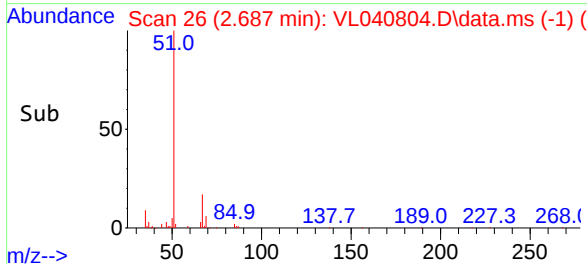
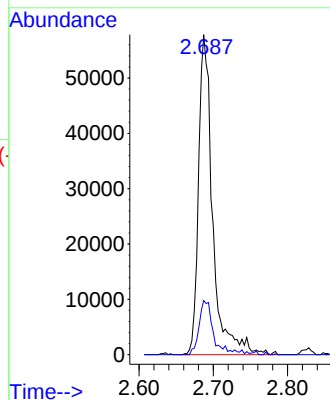
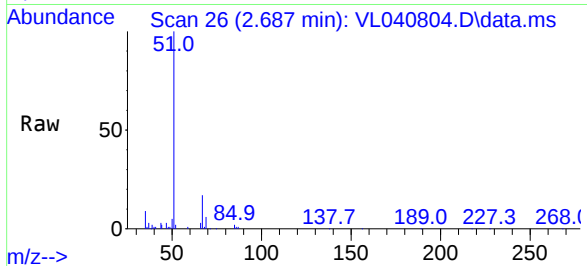




#3  
Chlorodifluoromethane  
Concen: 0.563 ppbv  
RT: 2.687 min Scan# 2  
Delta R.T. -0.016 min  
Lab File: VL040804.D  
Acq: 25 Oct 2023 17:33

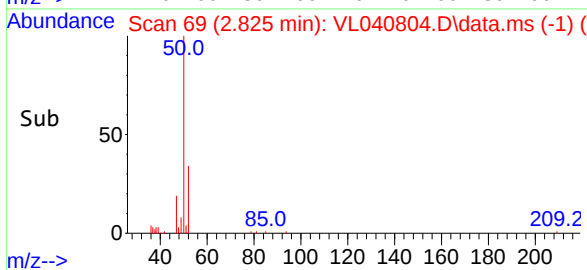
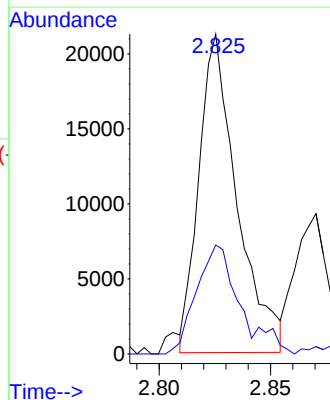
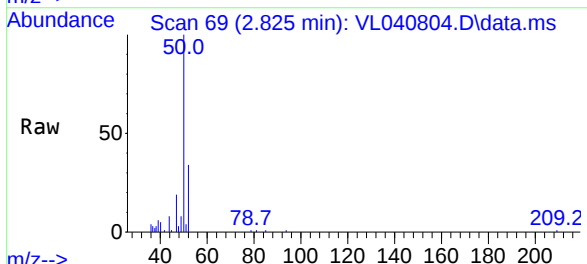
Instrument :  
MSVOA\_L  
ClientSampleId :  
MDL-AIR-03-QT4-2023DL

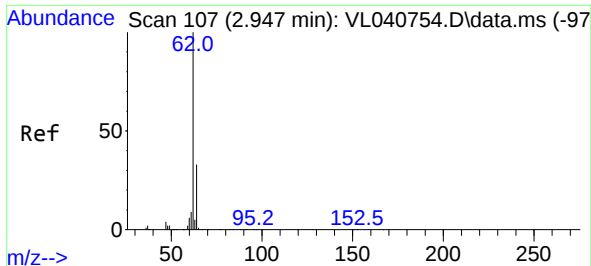
Tgt Ion: 51 Resp: 76768  
Ion Ratio Lower Upper  
51 100  
67 17.8 13.8 20.6



#4  
Chloromethane  
Concen: 0.470 ppbv  
RT: 2.825 min Scan# 69  
Delta R.T. -0.016 min  
Lab File: VL040804.D  
Acq: 25 Oct 2023 17:33

Tgt Ion: 50 Resp: 25292  
Ion Ratio Lower Upper  
50 100  
52 33.3 25.3 37.9

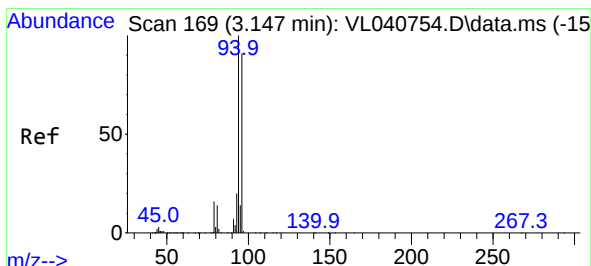
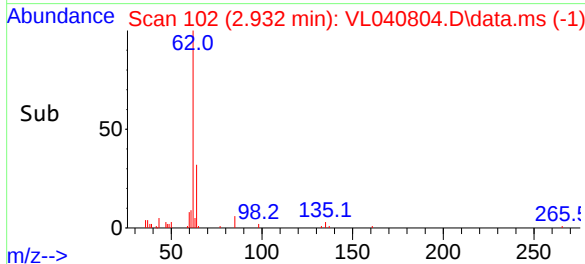
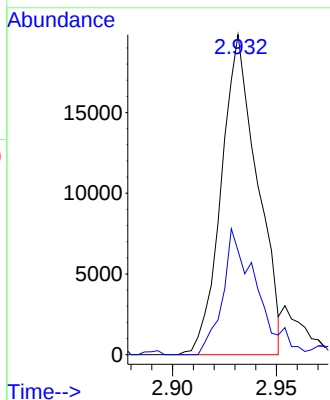
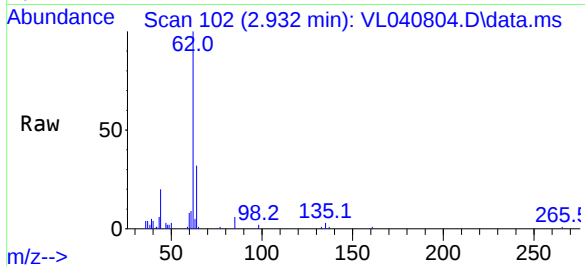




#5  
 Vinyl Chloride  
 Concen: 0.430 ppbv  
 RT: 2.932 min Scan# 107  
 Delta R.T. -0.016 min  
 Lab File: VL040804.D  
 Acq: 25 Oct 2023 17:33

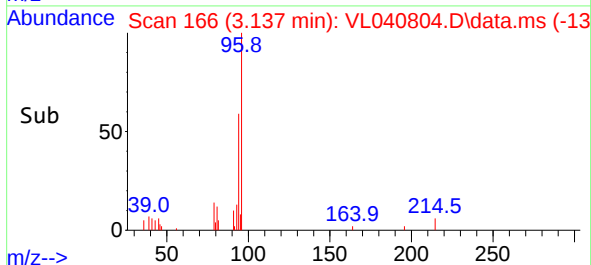
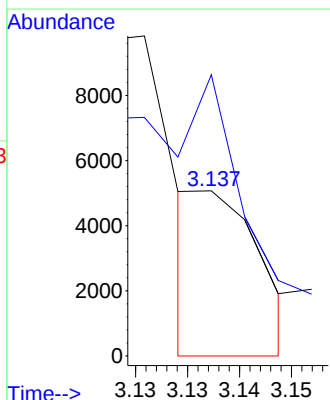
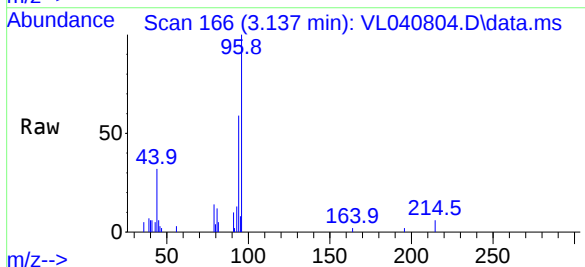
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 MDL-AIR-03-QT4-2023DL

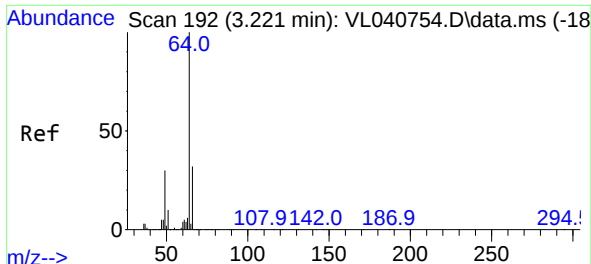
Tgt Ion: 62 Resp: 23906  
 Ion Ratio Lower Upper  
 62 100  
 64 32.5 26.6 39.8



#6  
 Bromomethane  
 Concen: 0.094 ppbv  
 RT: 3.137 min Scan# 166  
 Delta R.T. -0.010 min  
 Lab File: VL040804.D  
 Acq: 25 Oct 2023 17:33

Tgt Ion: 94 Resp: 2154  
 Ion Ratio Lower Upper  
 94 100  
 96 199.9 72.6 109.0#

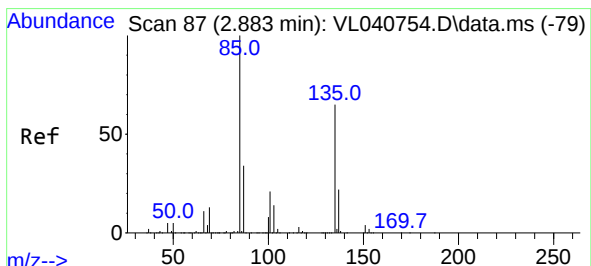
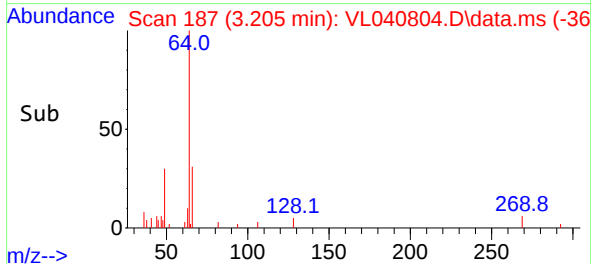
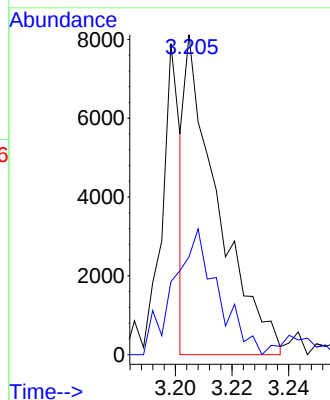
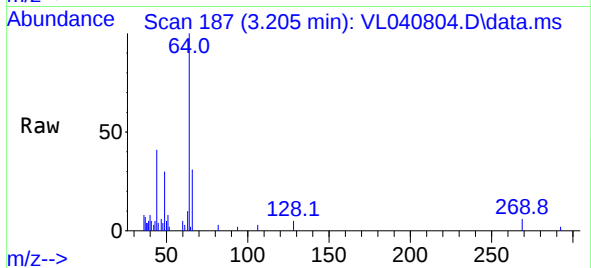




#7  
Chloroethane  
Concen: 0.357 ppbv  
RT: 3.205 min Scan# 11  
Delta R.T. -0.016 min  
Lab File: VL040804.D  
Acq: 25 Oct 2023 17:33

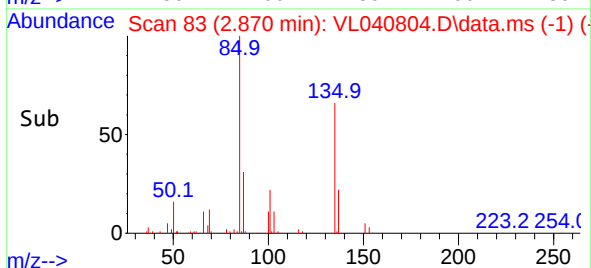
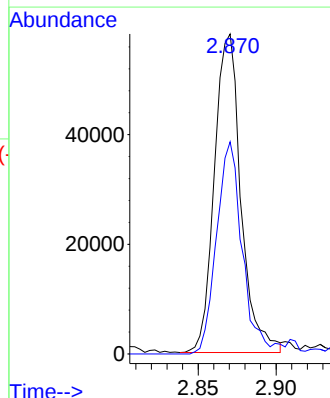
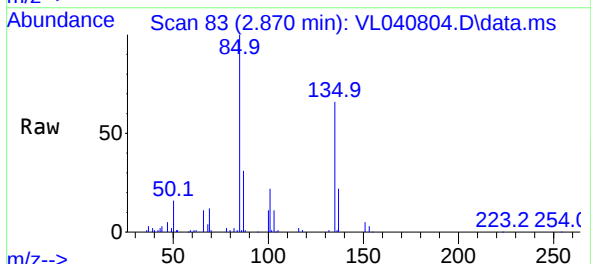
Instrument :  
MSVOA\_L  
ClientSampleId :  
MDL-AIR-03-QT4-2023DL

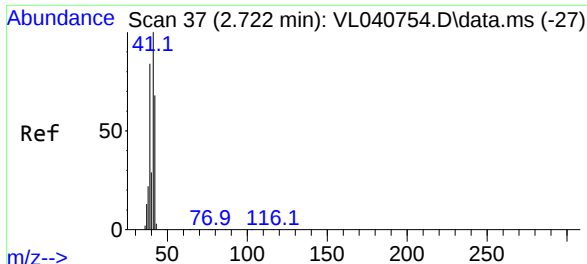
Tgt Ion: 64 Resp: 6464  
Ion Ratio Lower Upper  
64 100  
66 29.8 25.4 38.2



#8  
Dichlorotetrafluoroethane  
Concen: 0.556 ppbv  
RT: 2.870 min Scan# 83  
Delta R.T. -0.013 min  
Lab File: VL040804.D  
Acq: 25 Oct 2023 17:33

Tgt Ion: 85 Resp: 68866  
Ion Ratio Lower Upper  
85 100  
135 68.1 55.4 83.2

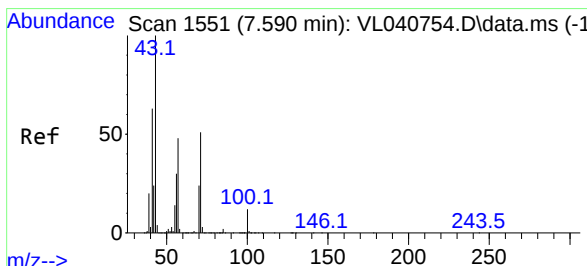
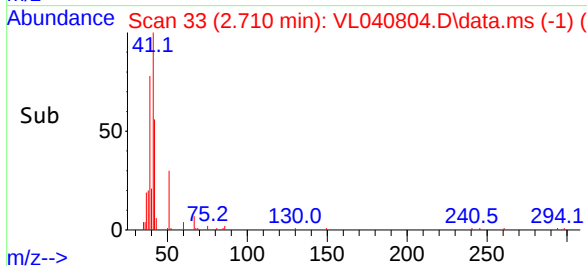
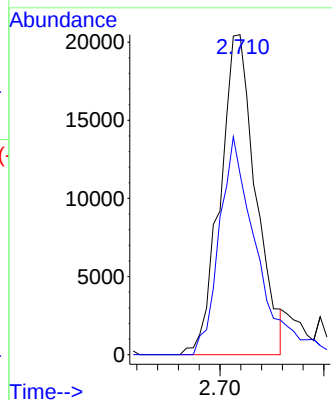
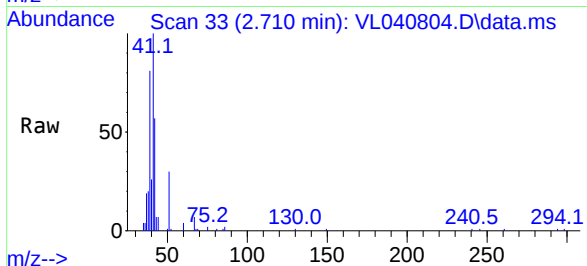




#9  
 Propene  
 Concen: 0.482 ppbv  
 RT: 2.710 min Scan# 31  
 Delta R.T. -0.013 min  
 Lab File: VL040804.D  
 Acq: 25 Oct 2023 17:33

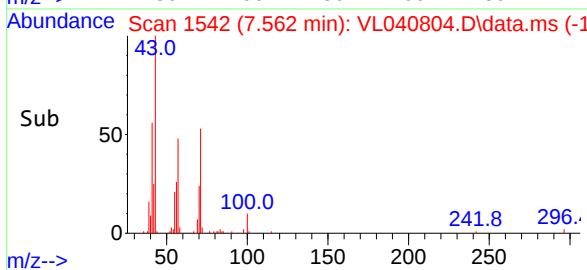
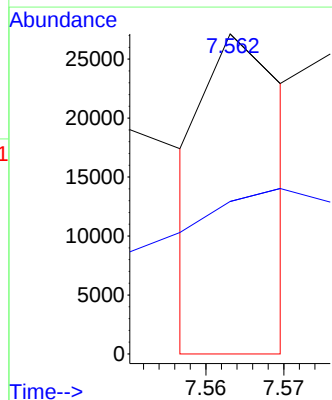
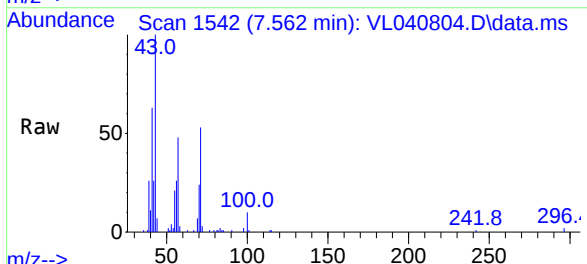
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 MDL-AIR-03-QT4-2023DL

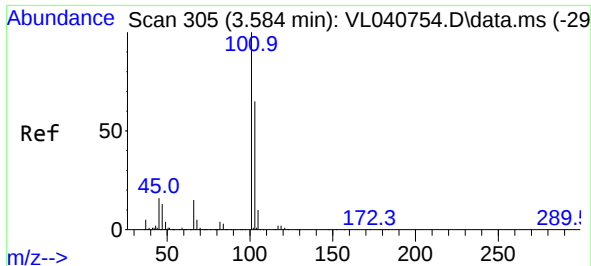
Tgt Ion: 41 Resp: 24409  
 Ion Ratio Lower Upper  
 41 100  
 42 73.2 57.1 85.7



#10  
 Heptane  
 Concen: 0.076 ppbv  
 RT: 7.562 min Scan# 1542  
 Delta R.T. -0.029 min  
 Lab File: VL040804.D  
 Acq: 25 Oct 2023 17:33

Tgt Ion: 43 Resp: 9664  
 Ion Ratio Lower Upper  
 43 100  
 57 0.0 40.0 60.0#

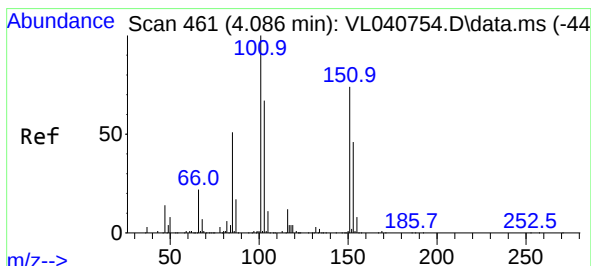
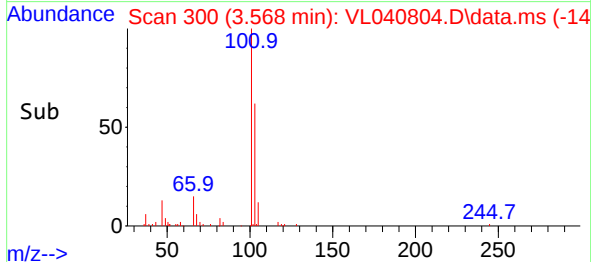
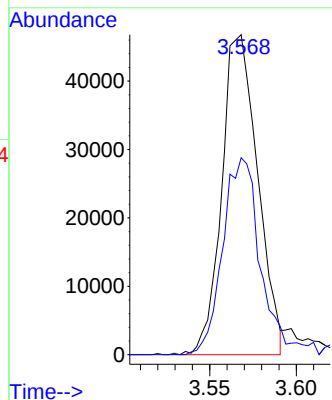
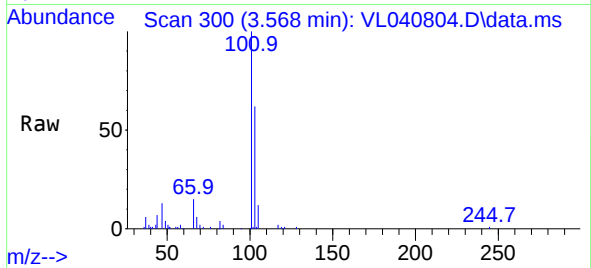




#11  
 Trichlorofluoromethane  
 Concen: 0.536 ppbv  
 RT: 3.568 min Scan# 305  
 Delta R.T. -0.016 min  
 Lab File: VL040804.D  
 Acq: 25 Oct 2023 17:33

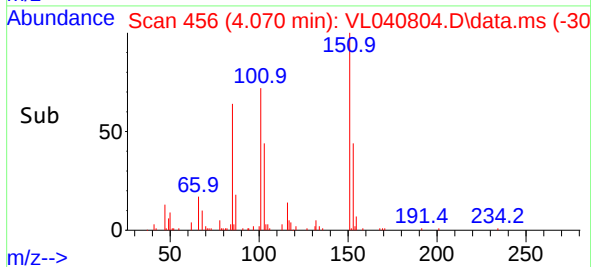
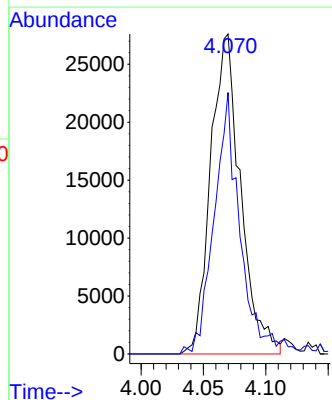
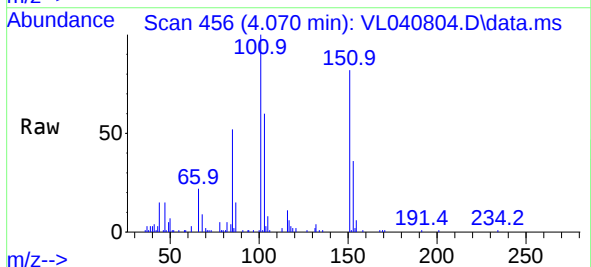
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 MDL-AIR-03-QT4-2023DL

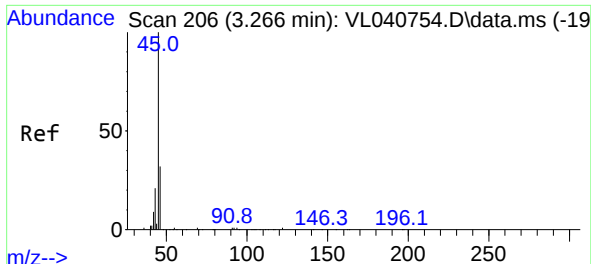
Tgt Ion:101 Resp: 67549  
 Ion Ratio Lower Upper  
 101 100  
 103 61.6 52.2 78.2



#12  
 1,1,2-Trichlorotrifluoroethane  
 Concen: 0.514 ppbv  
 RT: 4.070 min Scan# 456  
 Delta R.T. -0.016 min  
 Lab File: VL040804.D  
 Acq: 25 Oct 2023 17:33

Tgt Ion:101 Resp: 46167  
 Ion Ratio Lower Upper  
 101 100  
 151 72.4 58.1 87.1





#13

Ethanol

Concen: 0.265 ppbv

RT: 3.266 min Scan# 206

Delta R.T. 0.000 min

Lab File: VL040804.D

Acq: 25 Oct 2023 17:33

Instrument :

MSVOA\_L

ClientSampleId :

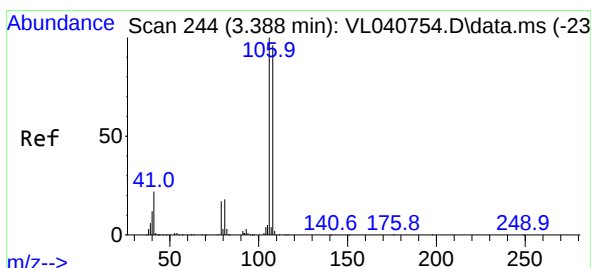
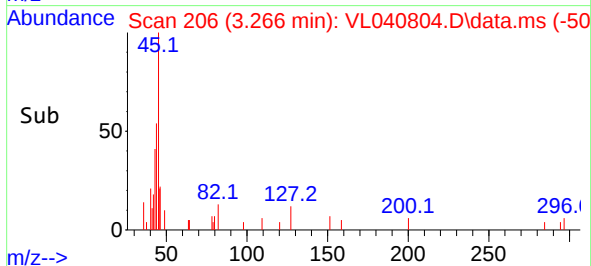
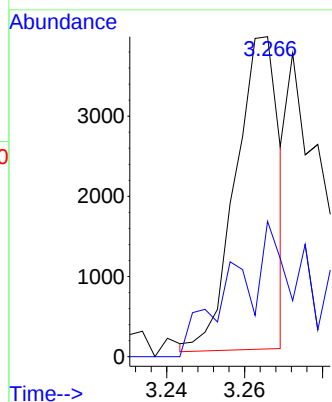
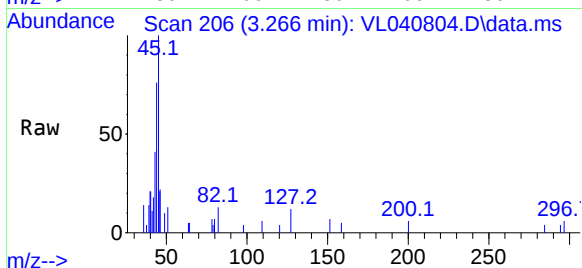
MDL-AIR-03-QT4-2023DL

Tgt Ion: 45 Resp: 3024

Ion Ratio Lower Upper

45 100

46 96.7 14.6 58.2#



#14

Bromoethene

Concen: 0.479 ppbv

RT: 3.372 min Scan# 239

Delta R.T. -0.016 min

Lab File: VL040804.D

Acq: 25 Oct 2023 17:33

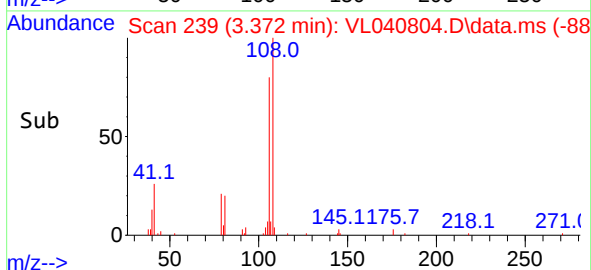
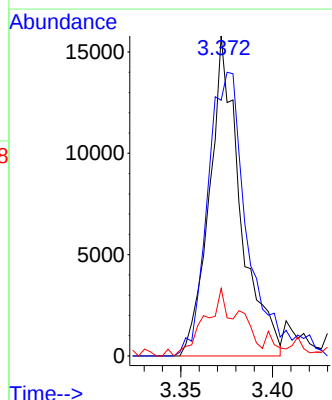
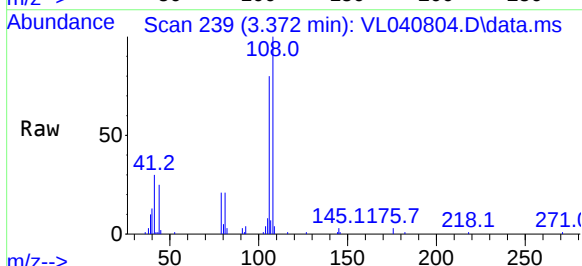
Tgt Ion:108 Resp: 18445

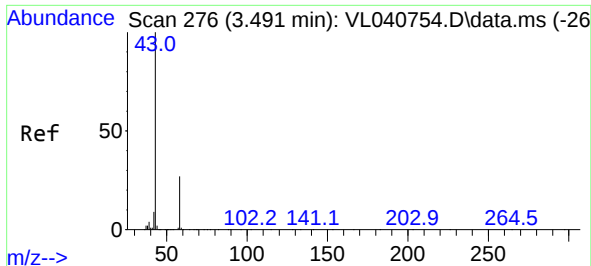
Ion Ratio Lower Upper

108 100

106 118.2 85.2 127.8

79 33.3 15.7 23.5#

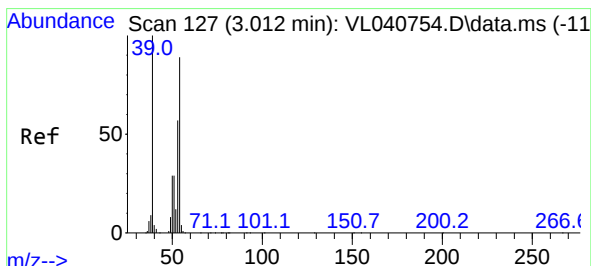
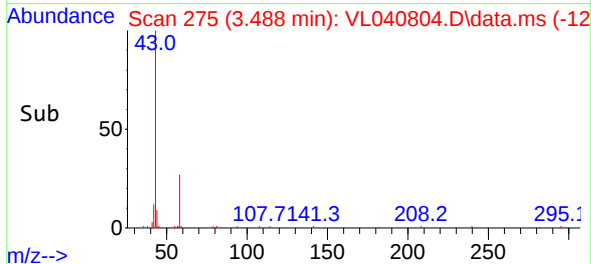
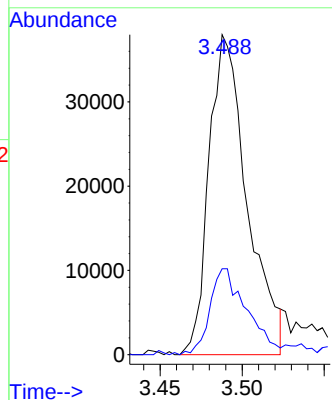
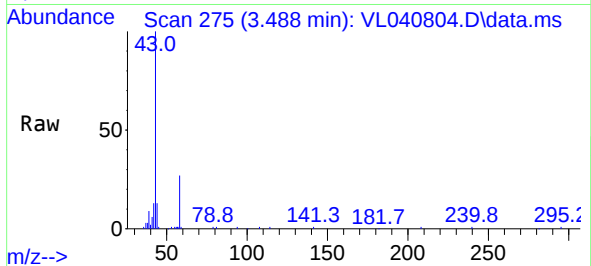




#15  
Acetone  
Concen: 0.641 ppbv  
RT: 3.488 min Scan# 21  
Delta R.T. -0.003 min  
Lab File: VL040804.D  
Acq: 25 Oct 2023 17:33

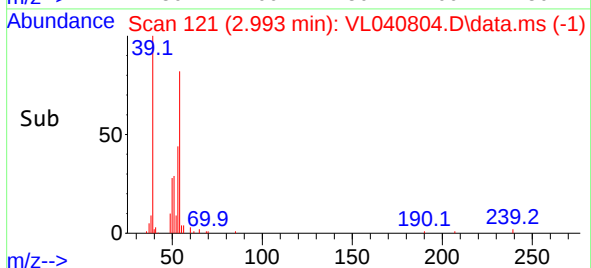
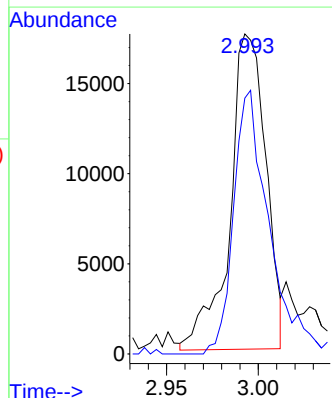
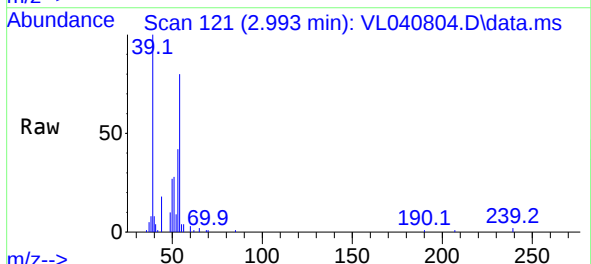
Instrument :  
MSVOA\_L  
ClientSampleId :  
MDL-AIR-03-QT4-2023DL

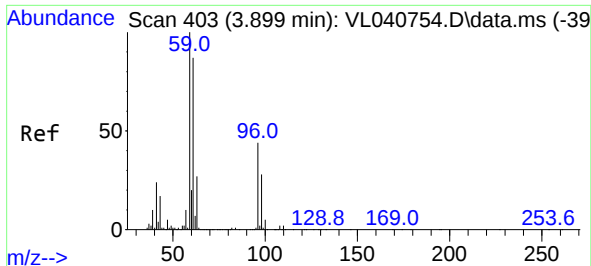
Tgt Ion: 43 Resp: 61404  
Ion Ratio Lower Upper  
43 100  
58 29.9 21.6 32.4



#16  
1,3-Butadiene  
Concen: 0.478 ppbv  
RT: 2.993 min Scan# 121  
Delta R.T. -0.019 min  
Lab File: VL040804.D  
Acq: 25 Oct 2023 17:33

Tgt Ion: 39 Resp: 24008  
Ion Ratio Lower Upper  
39 100  
54 85.7 63.0 94.6

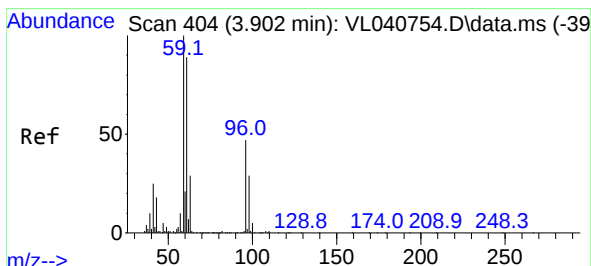
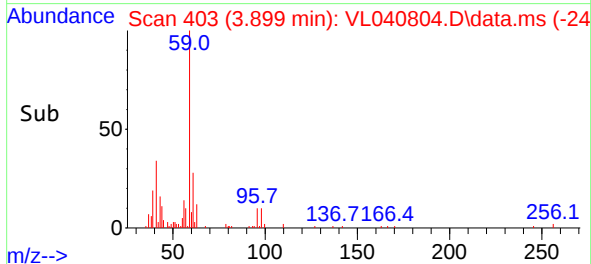
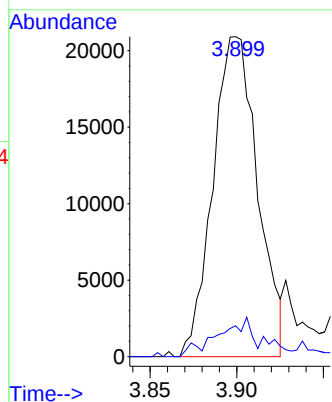
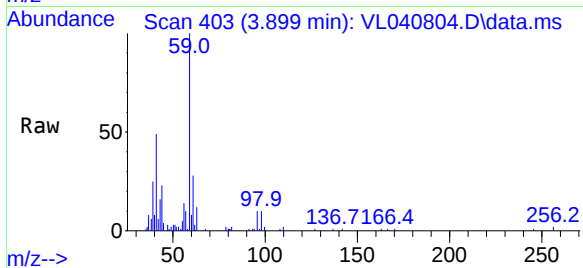




#17  
tert-Butyl alcohol  
Concen: 0.382 ppbv  
RT: 3.899 min Scan# 403  
Delta R.T. 0.000 min  
Lab File: VL040804.D  
Acq: 25 Oct 2023 17:33

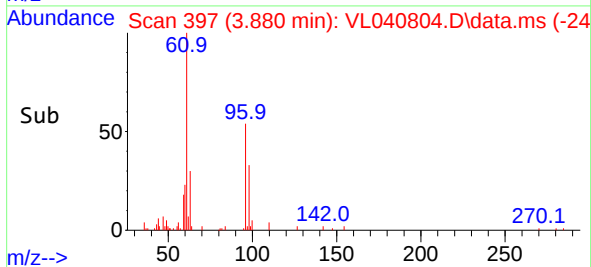
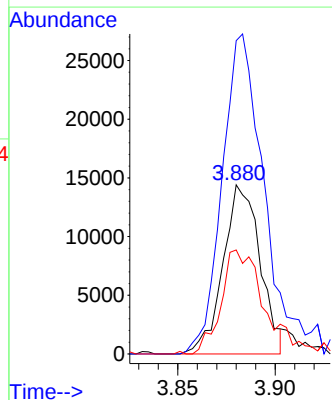
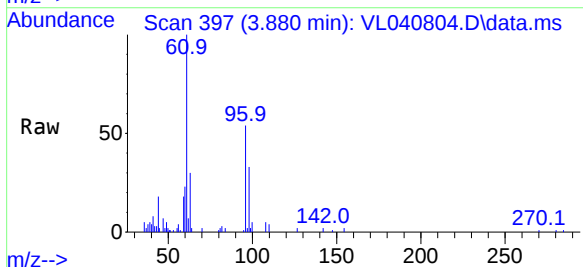
Instrument :  
MSVOA\_L  
ClientSampleId :  
MDL-AIR-03-QT4-2023DL

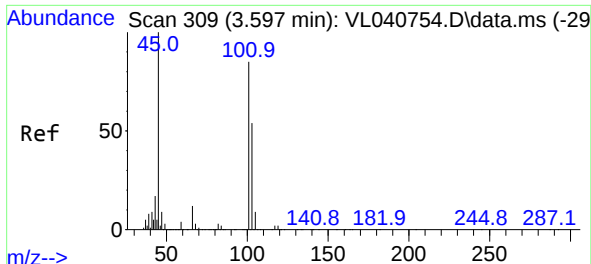
Tgt Ion: 59 Resp: 37567  
Ion Ratio Lower Upper  
59 100  
57 13.4 8.6 13.0#



#18  
1,1-Dichloroethene  
Concen: 0.472 ppbv  
RT: 3.880 min Scan# 397  
Delta R.T. -0.022 min  
Lab File: VL040804.D  
Acq: 25 Oct 2023 17:33

Tgt Ion: 96 Resp: 19020  
Ion Ratio Lower Upper  
96 100  
61 185.2 152.5 228.7  
98 60.0 49.6 74.4





#19

Isopropyl Alcohol

Concen: 0.177 ppbv

RT: 3.594 min Scan# 309

Delta R.T. -0.003 min

Lab File: VL040804.D

Acq: 25 Oct 2023 17:33

Instrument :

MSVOA\_L

ClientSampleId :

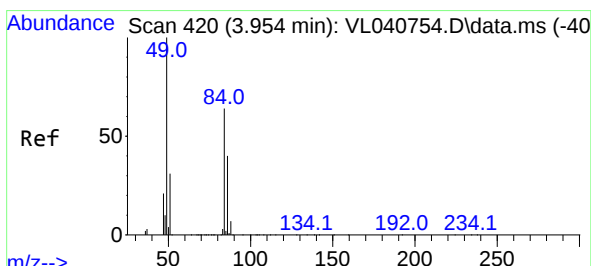
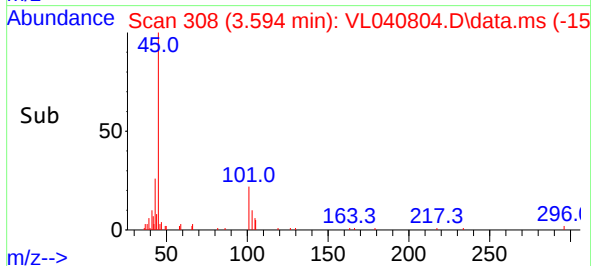
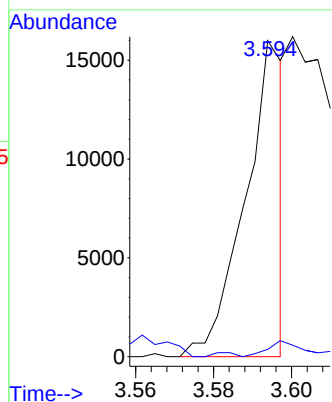
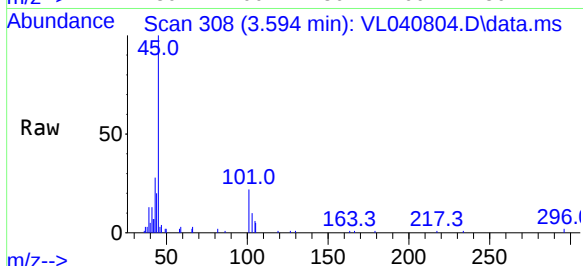
MDL-AIR-03-QT4-2023DL

Tgt Ion: 45 Resp: 10913

Ion Ratio Lower Upper

45 100

58 9.5 30.3 45.5#



#20

Methylene Chloride

Concen: 0.273 ppbv

RT: 3.931 min Scan# 413

Delta R.T. -0.022 min

Lab File: VL040804.D

Acq: 25 Oct 2023 17:33

Tgt Ion: 84 Resp: 10903

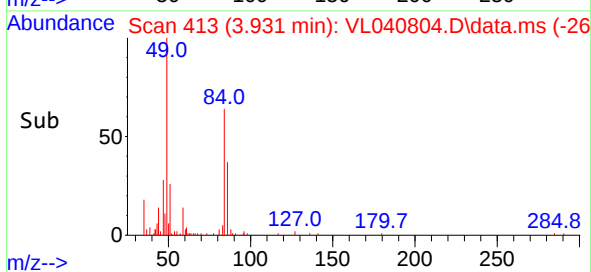
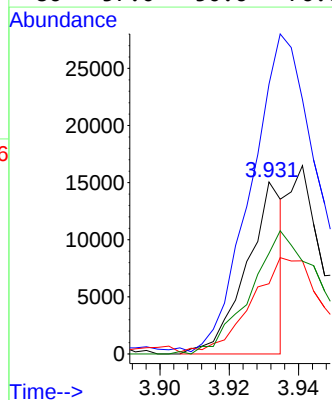
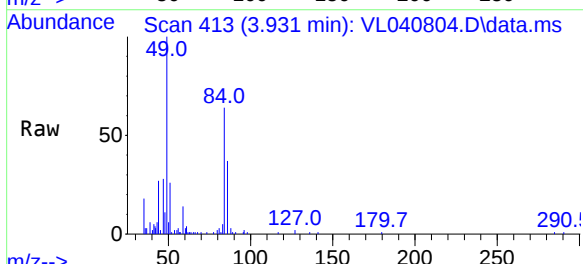
Ion Ratio Lower Upper

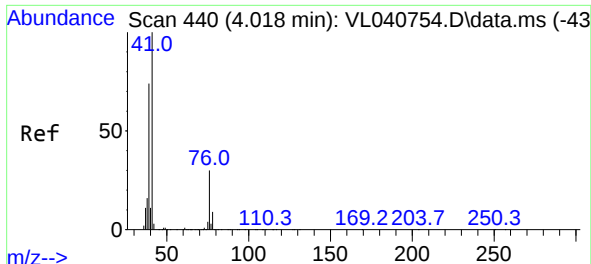
84 100

49 153.2 125.6 188.4

51 39.8 38.9 58.3

86 57.0 50.6 76.0





#21

Allyl Chloride

Concen: 0.470 ppbv

RT: 4.002 min Scan# 41

Delta R.T. -0.016 min

Lab File: VL040804.D

Acq: 25 Oct 2023 17:33

Instrument :

MSVOA\_L

ClientSampleId :

MDL-AIR-03-QT4-2023DL

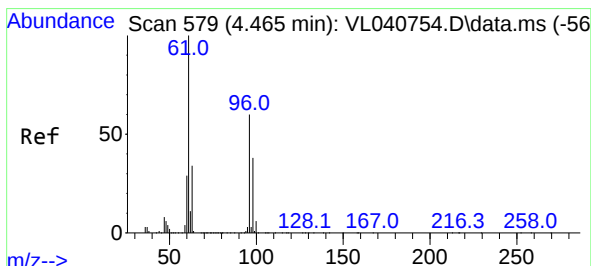
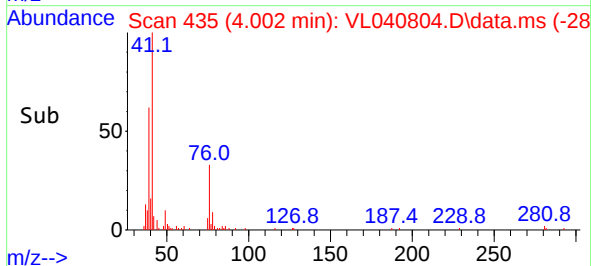
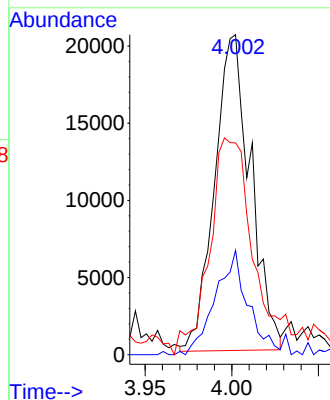
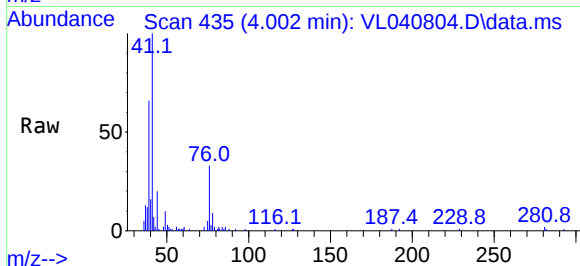
Tgt Ion: 41 Resp: 29678

Ion Ratio Lower Upper

41 100

76 30.8 24.1 36.1

39 75.9 63.8 95.6



#22

trans-1,2-Dichloroethene

Concen: 0.434 ppbv

RT: 4.443 min Scan# 572

Delta R.T. -0.022 min

Lab File: VL040804.D

Acq: 25 Oct 2023 17:33

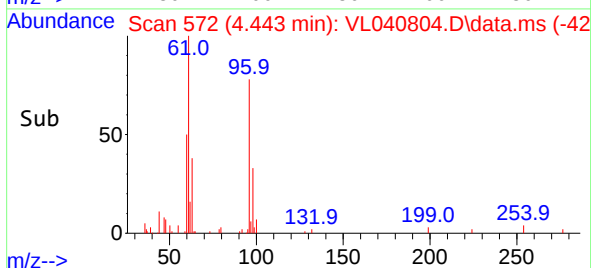
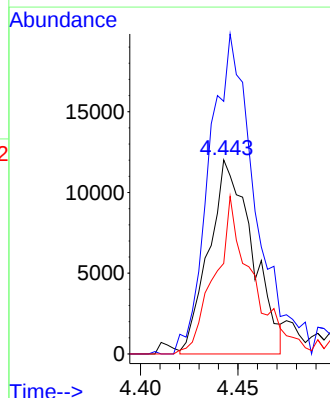
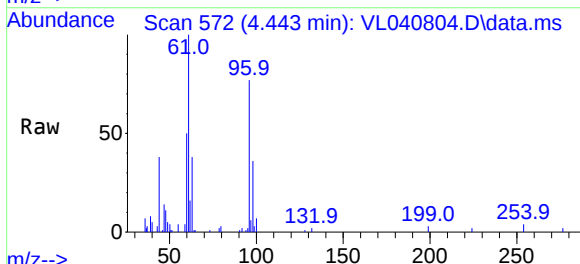
Tgt Ion: 96 Resp: 18606

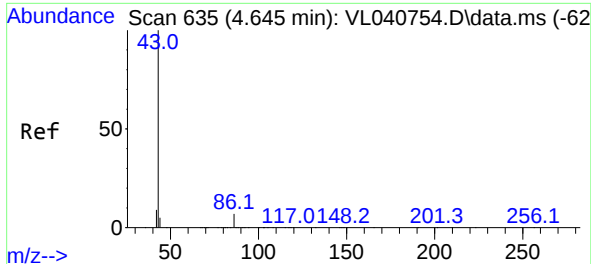
Ion Ratio Lower Upper

96 100

61 142.7 134.0 201.0

98 45.5 51.0 76.4#





#23

Vinyl Acetate

Concen: 0.210 ppbv

RT: 4.629 min Scan# 61

Delta R.T. -0.016 min

Lab File: VL040804.D

Acq: 25 Oct 2023 17:33

Instrument :

MSVOA\_L

ClientSampleId :

MDL-AIR-03-QT4-2023DL

Tgt Ion: 43 Resp: 25595

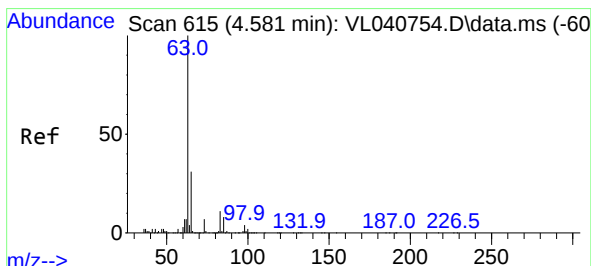
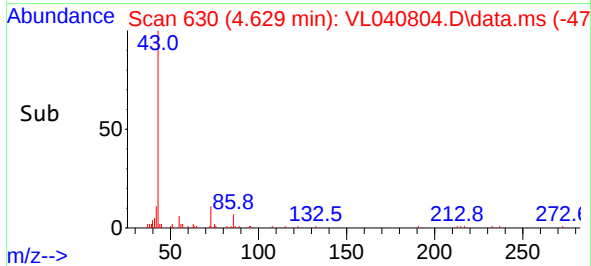
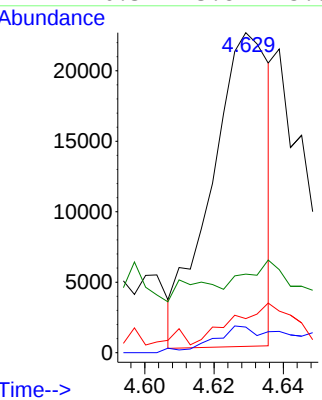
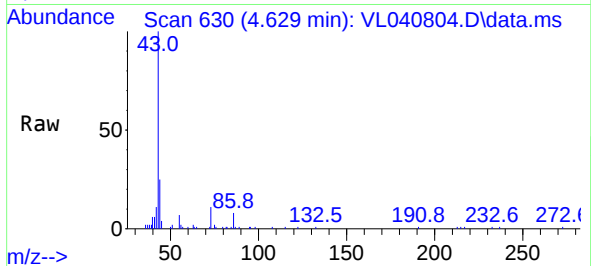
Ion Ratio Lower Upper

43 100

86 8.7 4.9 7.3#

42 8.1 7.8 11.6

44 10.3 3.8 5.6#



#24

1,1-Dichloroethane

Concen: 0.455 ppbv

RT: 4.562 min Scan# 609

Delta R.T. -0.019 min

Lab File: VL040804.D

Acq: 25 Oct 2023 17:33

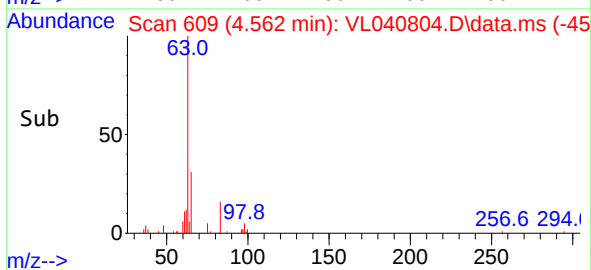
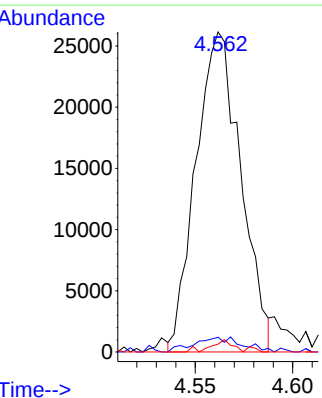
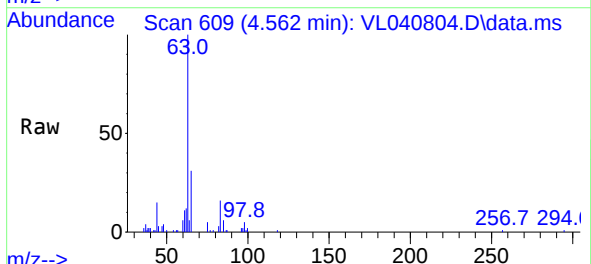
Tgt Ion: 63 Resp: 41942

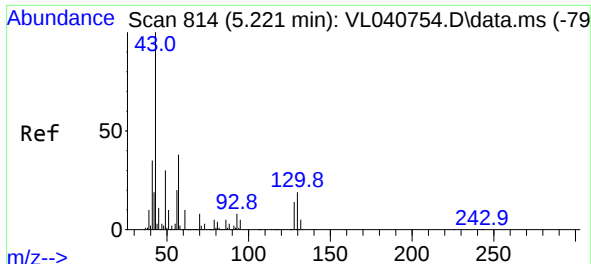
Ion Ratio Lower Upper

63 100

98 4.7 2.0 5.8

100 2.5 1.3 3.8

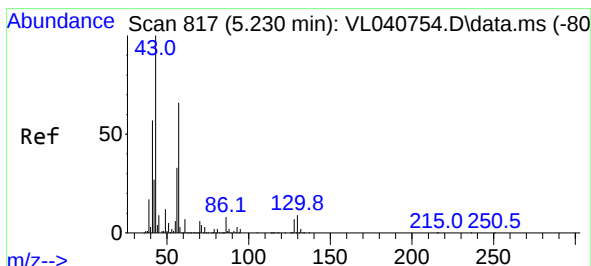
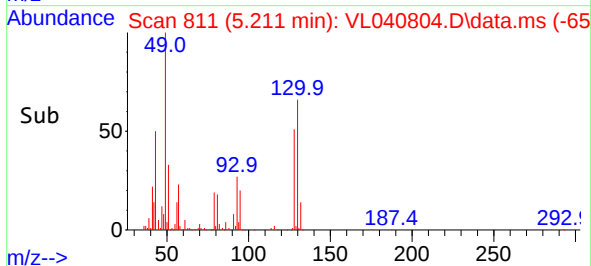
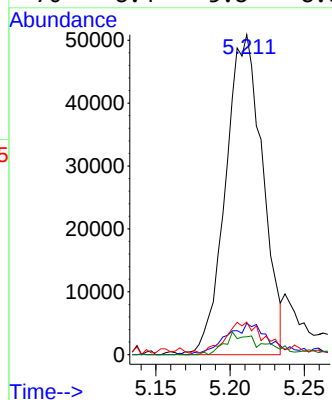
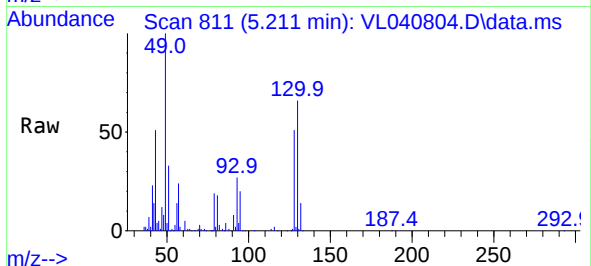




#25  
Ethyl Acetate  
Concen: 0.419 ppbv  
RT: 5.211 min Scan# 811  
Delta R.T. -0.010 min  
Lab File: VL040804.D  
Acq: 25 Oct 2023 17:33

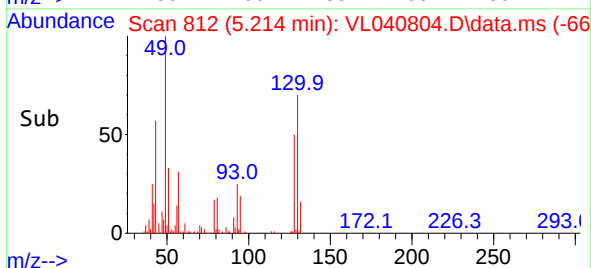
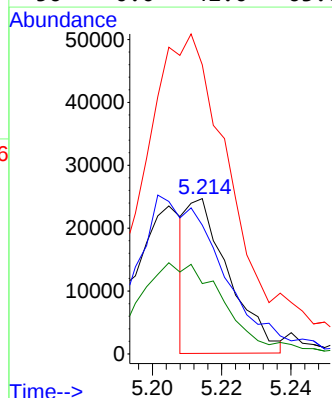
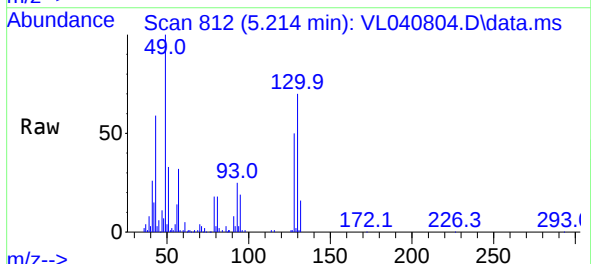
Instrument :  
MSVOA\_L  
ClientSampleId :  
MDL-AIR-03-QT4-2023DL

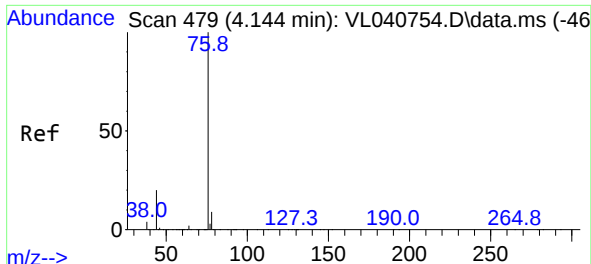
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 43    | Resp: | 87895 |
| Ion      | Ratio | Lower | Upper |
| 43       | 100   |       |       |
| 45       | 12.5  | 8.2   | 12.4# |
| 61       | 13.4  | 8.2   | 12.2# |
| 70       | 8.4   | 5.8   | 8.6   |



#26  
Hexane  
Concen: 0.215 ppbv  
RT: 5.214 min Scan# 812  
Delta R.T. -0.016 min  
Lab File: VL040804.D  
Acq: 25 Oct 2023 17:33

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 57    | Resp: | 20650  |
| Ion      | Ratio | Lower | Upper  |
| 57       | 100   |       |        |
| 41       | 0.0   | 71.4  | 107.2# |
| 43       | 492.2 | 182.3 | 273.5# |
| 56       | 0.0   | 42.0  | 63.0#  |

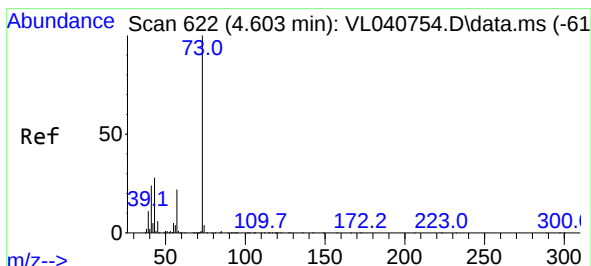
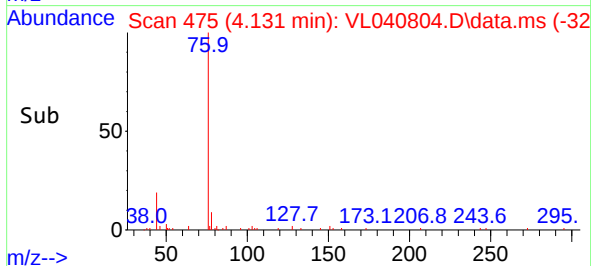
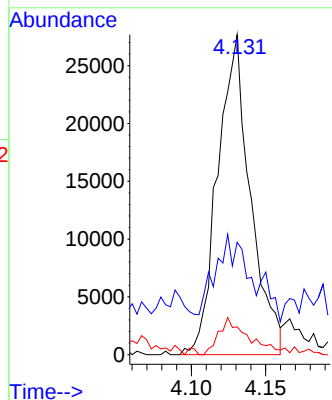
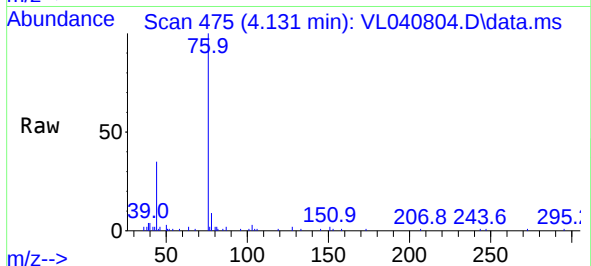




#27  
Carbon Disulfide  
Concen: 0.401 ppbv  
RT: 4.131 min Scan# 41  
Delta R.T. -0.013 min  
Lab File: VL040804.D  
Acq: 25 Oct 2023 17:33

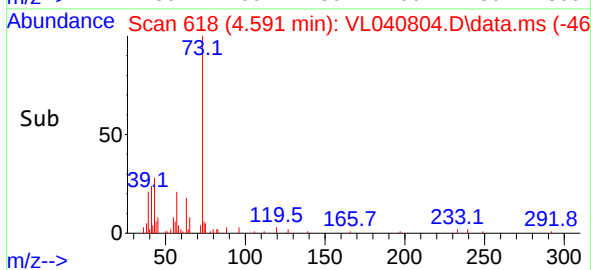
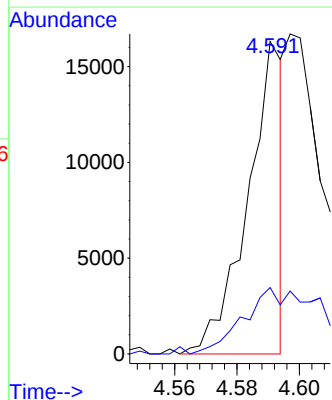
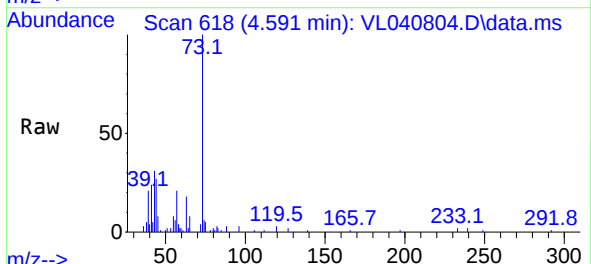
Instrument :  
MSVOA\_L  
ClientSampleId :  
MDL-AIR-03-QT4-2023DL

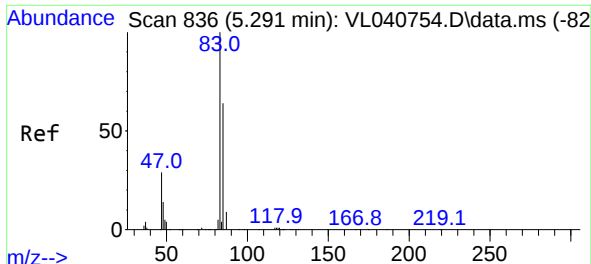
Tgt Ion: 76 Resp: 42444  
Ion Ratio Lower Upper  
76 100  
44 39.0 16.6 25.0#  
78 12.1 7.8 11.6#



#28  
Methyl tert-Butyl Ether  
Concen: 0.170 ppbv  
RT: 4.591 min Scan# 618  
Delta R.T. -0.013 min  
Lab File: VL040804.D  
Acq: 25 Oct 2023 17:33

Tgt Ion: 73 Resp: 12723  
Ion Ratio Lower Upper  
73 100  
57 58.0 18.9 28.3#





#29

Chloroform

Concen: 0.280 ppbv

RT: 5.272 min Scan# 81

Delta R.T. -0.019 min

Lab File: VL040804.D

Acq: 25 Oct 2023 17:33

Instrument :

MSVOA\_L

ClientSampleId :

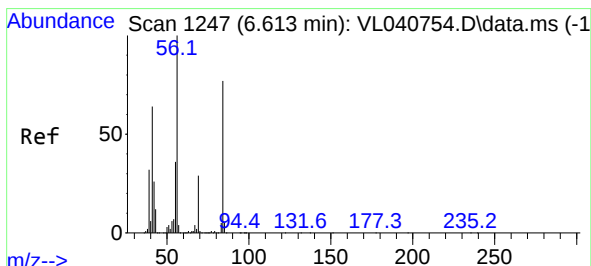
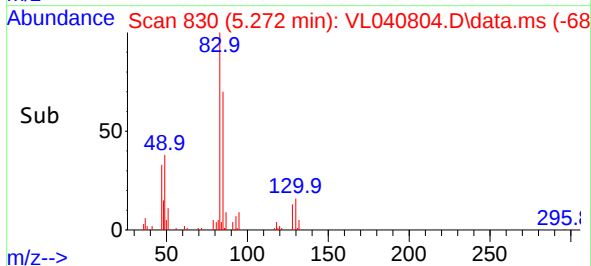
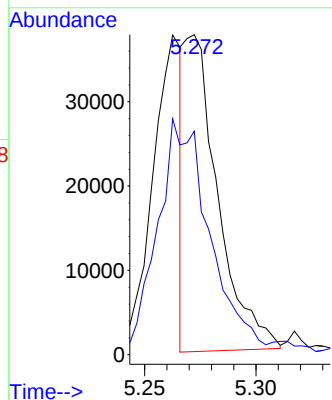
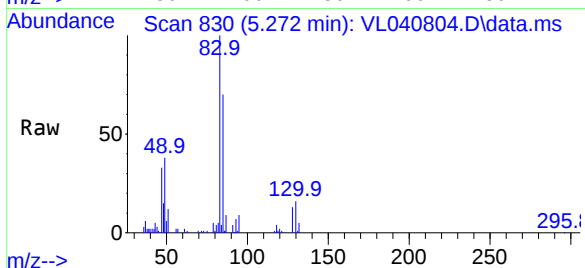
MDL-AIR-03-QT4-2023DL

Tgt Ion: 83 Resp: 38942

Ion Ratio Lower Upper

83 100

85 67.7 51.3 76.9



#30

Cyclohexane

Concen: 0.169 ppbv

RT: 6.584 min Scan# 1238

Delta R.T. -0.029 min

Lab File: VL040804.D

Acq: 25 Oct 2023 17:33

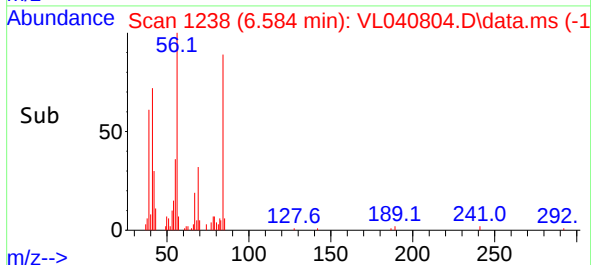
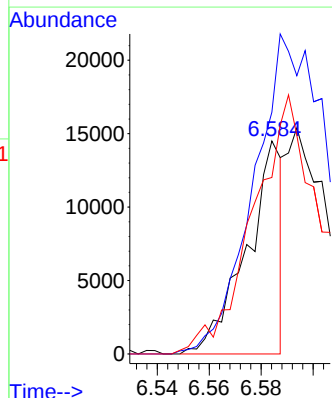
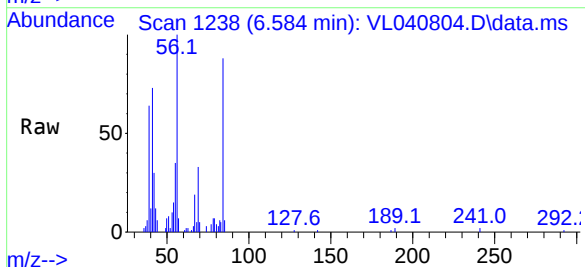
Tgt Ion: 84 Resp: 13781

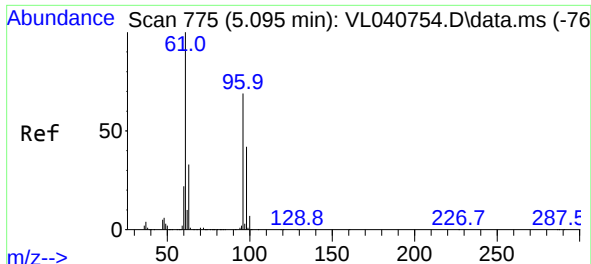
Ion Ratio Lower Upper

84 100

56 291.4 110.3 165.5#

41 0.0 67.4 101.2#

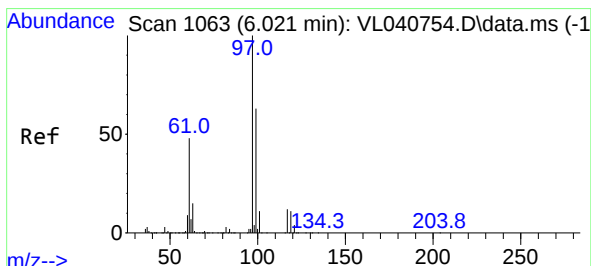
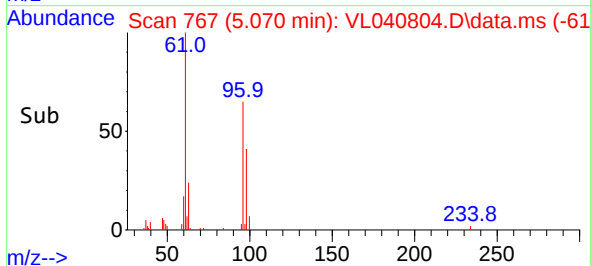
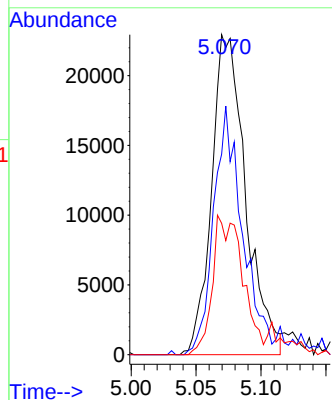
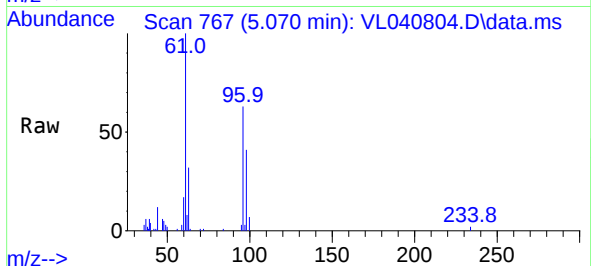




#31  
 cis-1,2-Dichloroethene  
 Concen: 0.472 ppbv  
 RT: 5.070 min Scan# 71  
 Delta R.T. -0.026 min  
 Lab File: VL040804.D  
 Acq: 25 Oct 2023 17:33

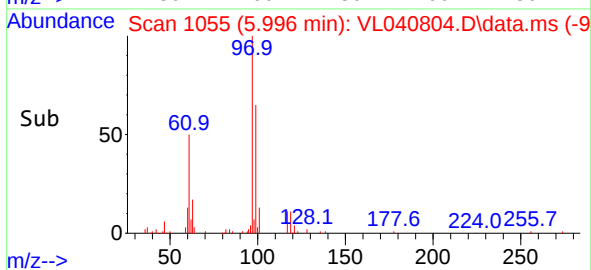
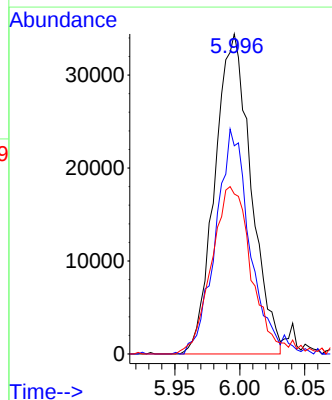
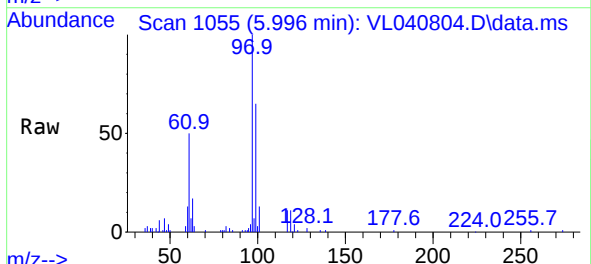
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 MDL-AIR-03-QT4-2023DL

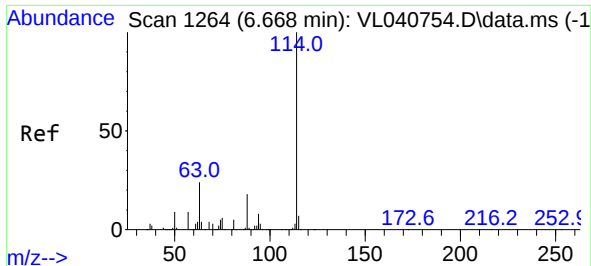
Tgt Ion: 61 Resp: 41747  
 Ion Ratio Lower Upper  
 61 100  
 96 62.7 55.1 82.7  
 98 41.1 33.5 50.3



#32  
 1,1,1-Trichloroethane  
 Concen: 0.452 ppbv  
 RT: 5.996 min Scan# 1055  
 Delta R.T. -0.026 min  
 Lab File: VL040804.D  
 Acq: 25 Oct 2023 17:33

Tgt Ion: 97 Resp: 66787  
 Ion Ratio Lower Upper  
 97 100  
 99 67.5 51.8 77.6  
 61 58.2 38.6 58.0#





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 6.642 min Scan# 11

Delta R.T. -0.026 min

Lab File: VL040804.D

Acq: 25 Oct 2023 17:33

Instrument :

MSVOA\_L

ClientSampleId :

MDL-AIR-03-QT4-2023DL

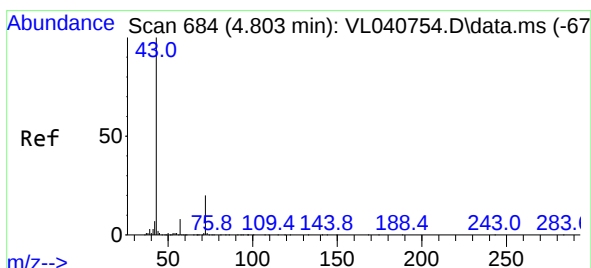
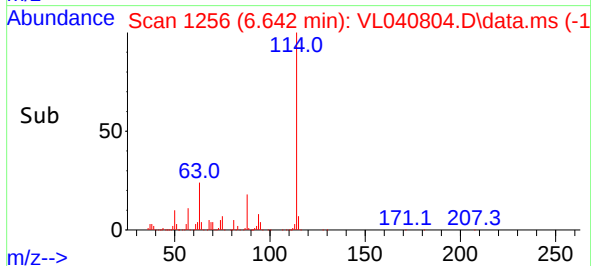
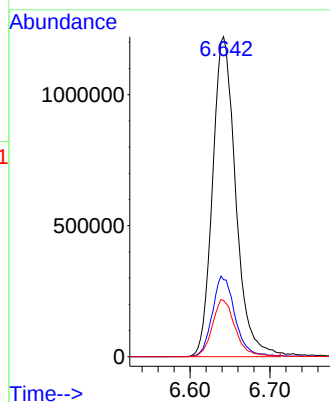
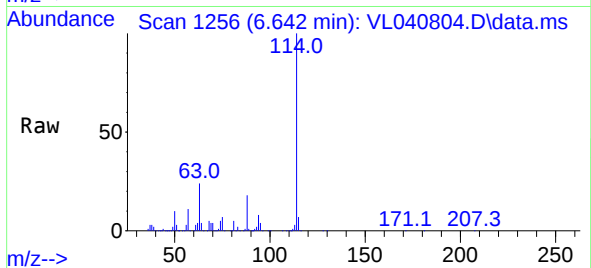
Tgt Ion:114 Resp: 2451821

Ion Ratio Lower Upper

114 100

63 25.1 19.8 29.6

88 17.8 14.2 21.2



#34

2-Butanone

Concen: 0.512 ppbv

RT: 4.793 min Scan# 681

Delta R.T. -0.010 min

Lab File: VL040804.D

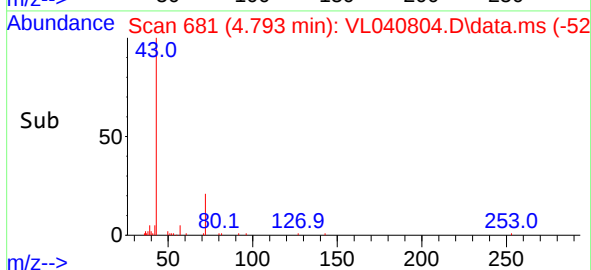
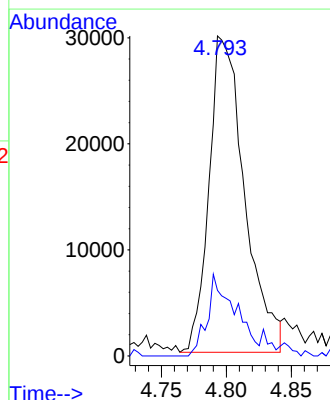
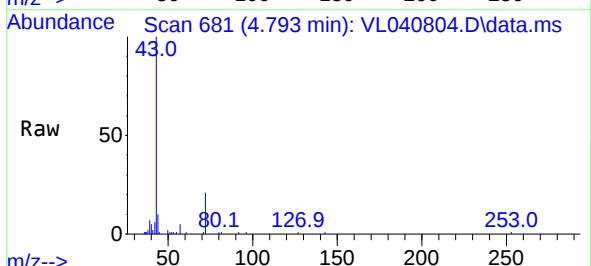
Acq: 25 Oct 2023 17:33

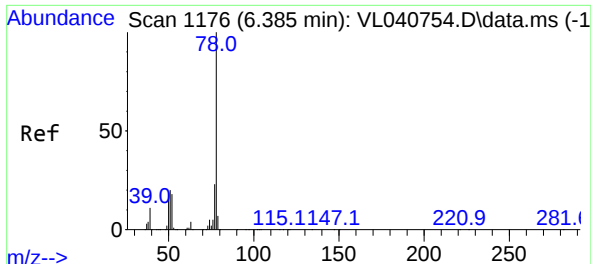
Tgt Ion: 43 Resp: 56804

Ion Ratio Lower Upper

43 100

72 24.5 16.8 25.2

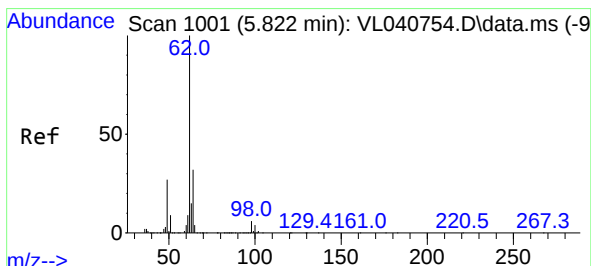
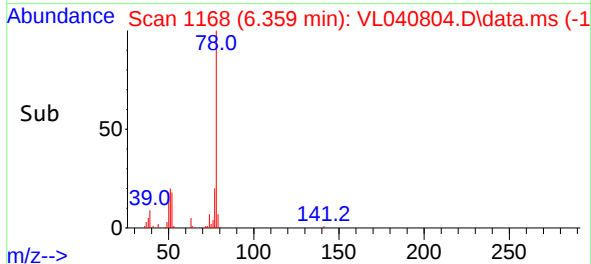
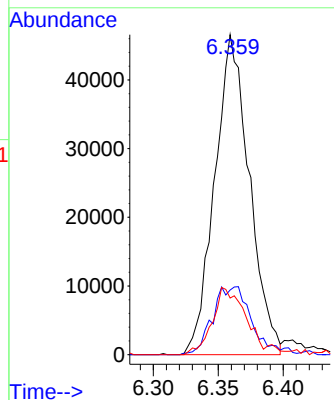
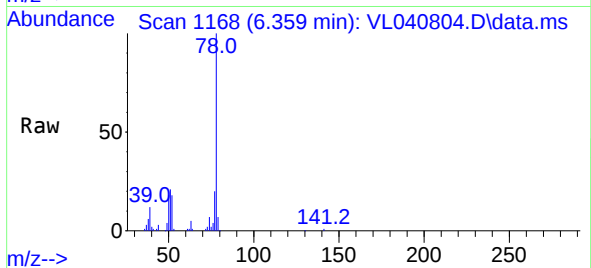




#36  
Benzene  
Concen: 0.458 ppbv  
RT: 6.359 min Scan# 1176  
Delta R.T. -0.026 min  
Lab File: VL040804.D  
Acq: 25 Oct 2023 17:33

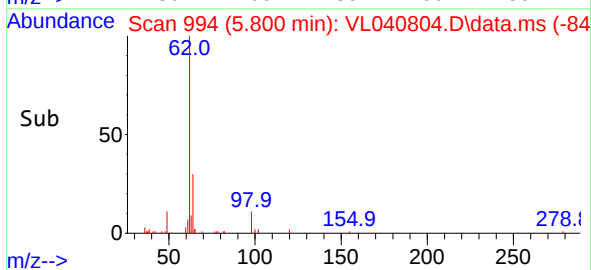
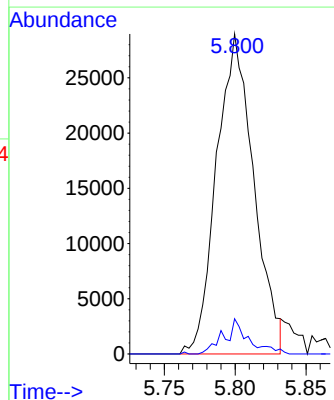
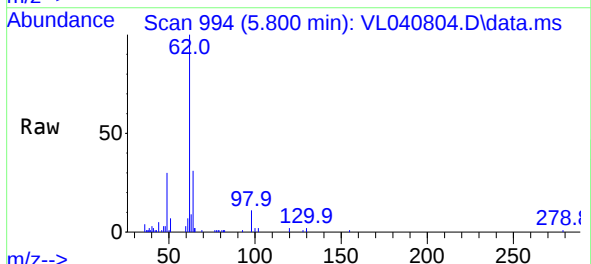
Instrument :  
MSVOA\_L  
ClientSampleId :  
MDL-AIR-03-QT4-2023DL

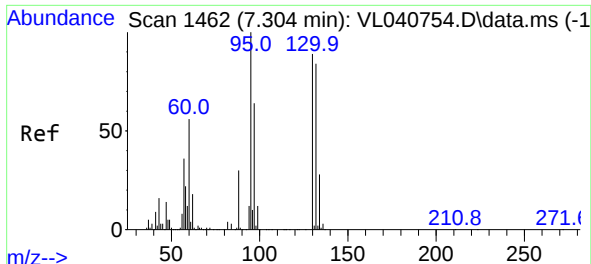
Tgt Ion: 78 Resp: 86384  
Ion Ratio Lower Upper  
78 100  
77 20.2 18.4 27.6  
50 17.7 15.0 22.4



#37  
1,2-Dichloroethane  
Concen: 0.548 ppbv  
RT: 5.800 min Scan# 994  
Delta R.T. -0.022 min  
Lab File: VL040804.D  
Acq: 25 Oct 2023 17:33

Tgt Ion: 62 Resp: 52898  
Ion Ratio Lower Upper  
62 100  
98 7.3 5.4 8.0





#38

Trichloroethene

Concen: 0.303 ppbv

RT: 7.279 min Scan# 1462

Delta R.T. -0.026 min

Lab File: VL040804.D

Acq: 25 Oct 2023 17:33

Instrument :

MSVOA\_L

ClientSampleId :

MDL-AIR-03-QT4-2023DL

Tgt Ion:130 Resp: 25285

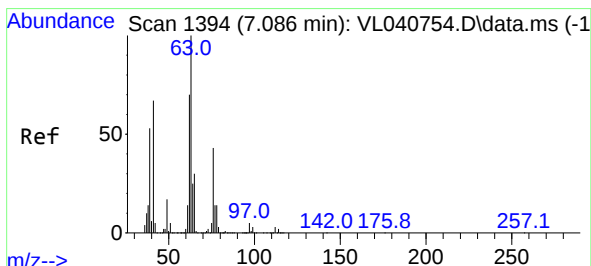
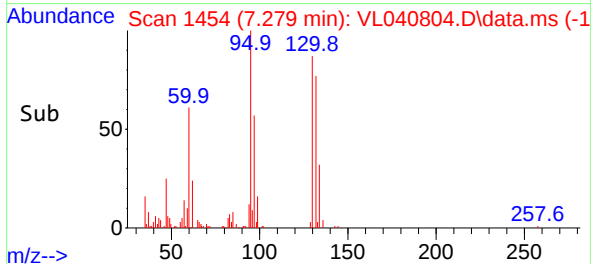
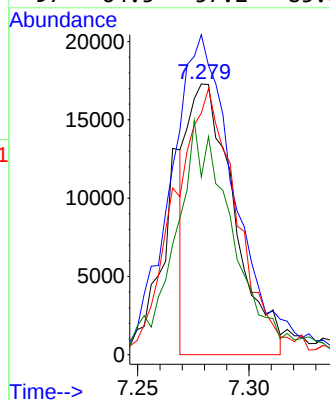
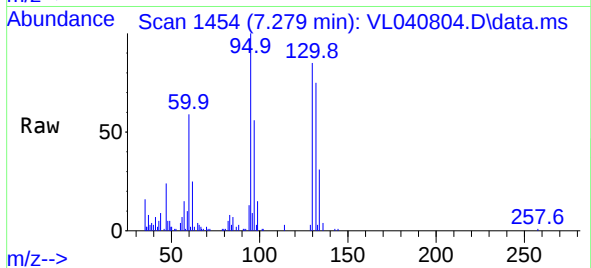
Ion Ratio Lower Upper

130 100

95 113.4 89.4 134.2

132 89.2 74.8 112.2

97 64.5 57.2 85.8



#39

1,2-Dichloropropane

Concen: 0.409 ppbv

RT: 7.060 min Scan# 1386

Delta R.T. -0.026 min

Lab File: VL040804.D

Acq: 25 Oct 2023 17:33

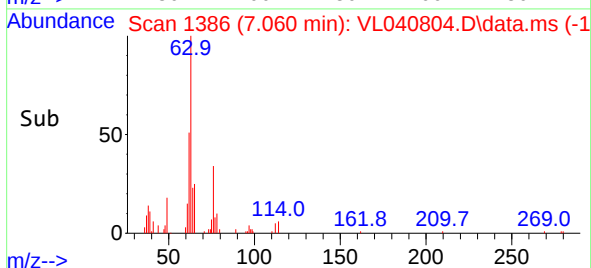
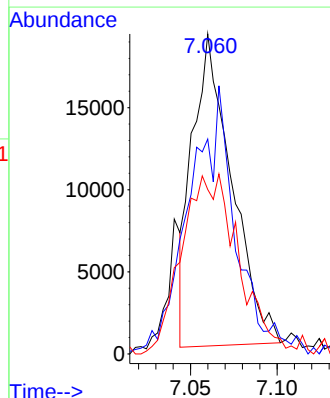
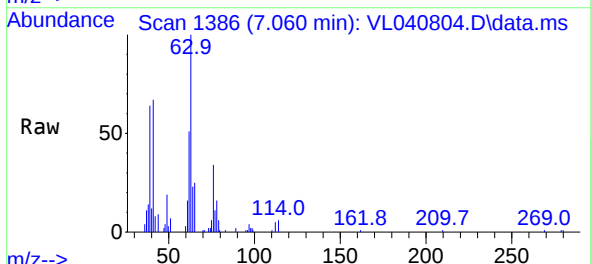
Tgt Ion: 63 Resp: 30132

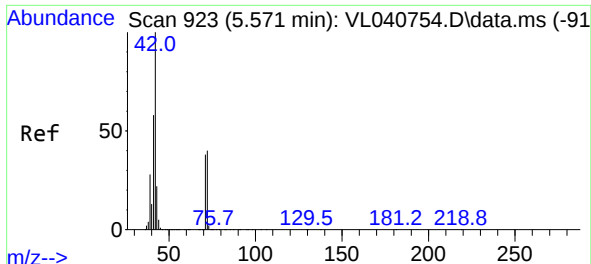
Ion Ratio Lower Upper

63 100

41 64.3 53.7 80.5

62 48.3 55.7 83.5#

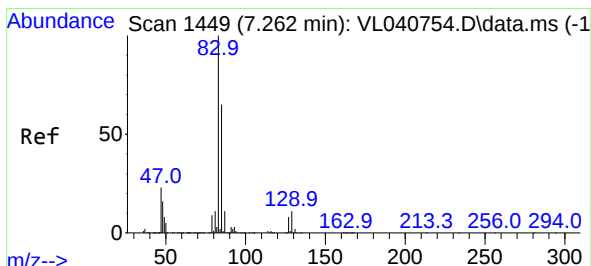
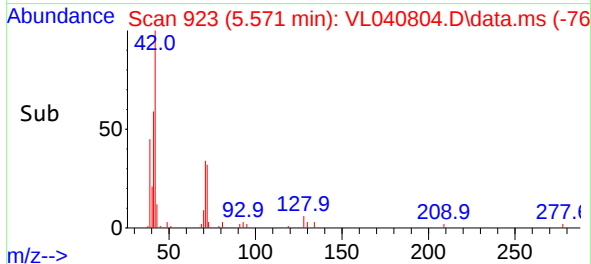
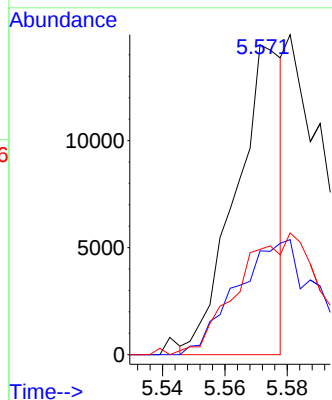
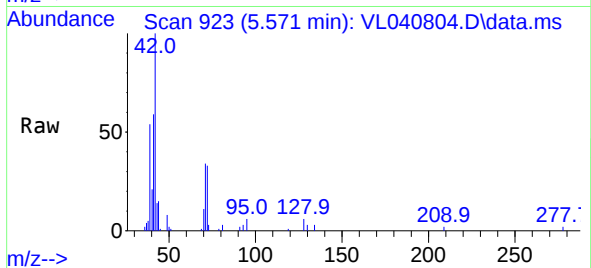




#41  
Tetrahydrofuran  
Concen: 0.194 ppbv  
RT: 5.571 min Scan# 91  
Delta R.T. 0.000 min  
Lab File: VL040804.D  
Acq: 25 Oct 2023 17:33

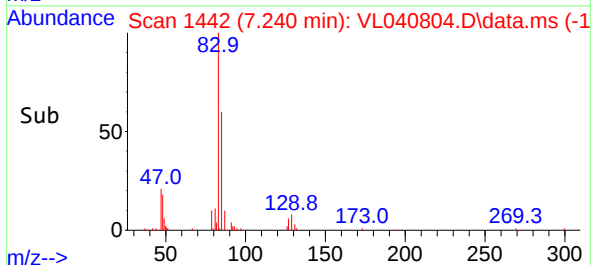
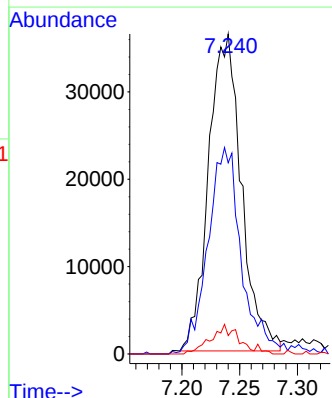
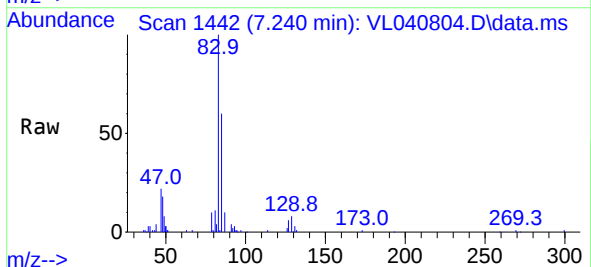
Instrument :  
MSVOA\_L  
ClientSampleId :  
MDL-AIR-03-QT4-2023DL

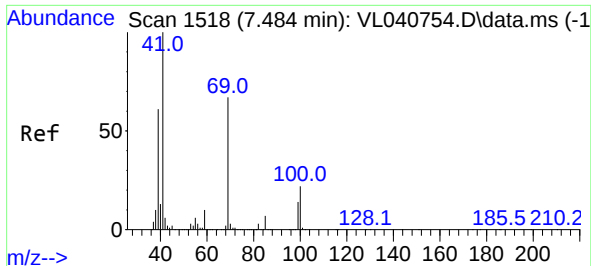
Tgt Ion: 42 Resp: 14882  
Ion Ratio Lower Upper  
42 100  
72 0.0 31.1 46.7#  
71 0.0 29.7 44.5#



#42  
Bromodichloromethane  
Concen: 0.497 ppbv  
RT: 7.240 min Scan# 1442  
Delta R.T. -0.022 min  
Lab File: VL040804.D  
Acq: 25 Oct 2023 17:33

Tgt Ion: 83 Resp: 71891  
Ion Ratio Lower Upper  
83 100  
85 59.6 52.1 78.1  
127 5.8 6.7 10.1#

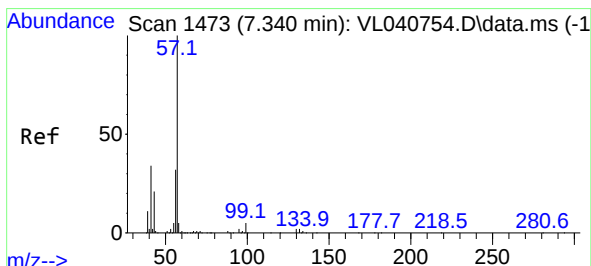
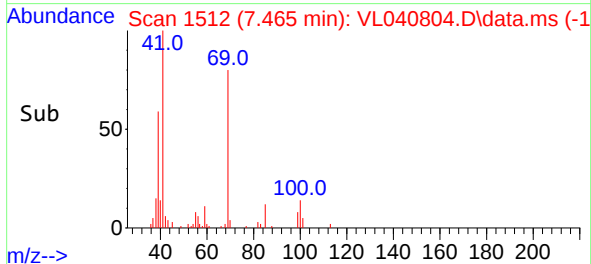
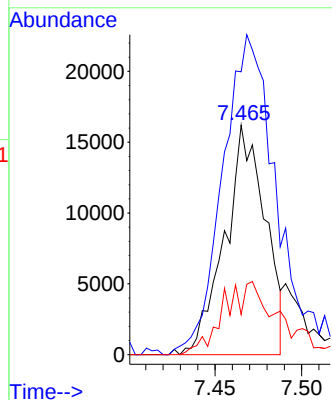
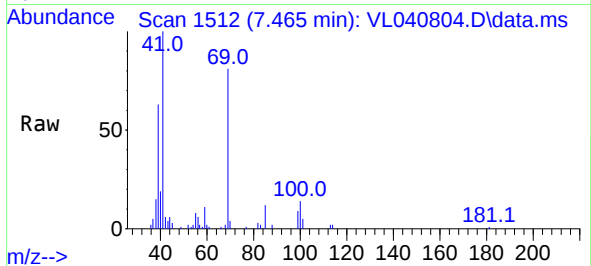




#43  
Methyl Methacrylate  
Concen: 0.347 ppbv  
RT: 7.465 min Scan# 11  
Delta R.T. -0.019 min  
Lab File: VL040804.D  
Acq: 25 Oct 2023 17:33

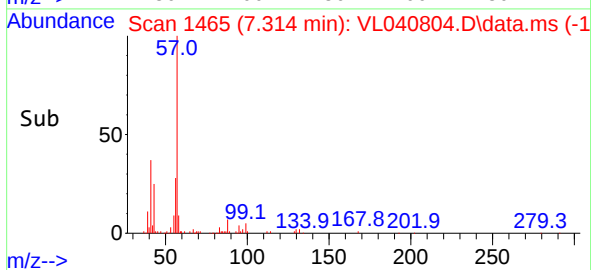
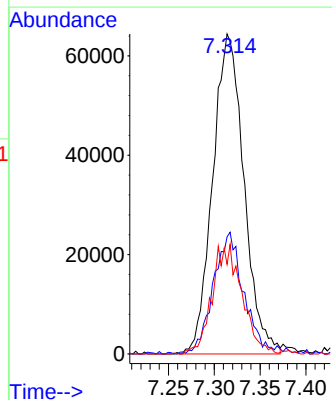
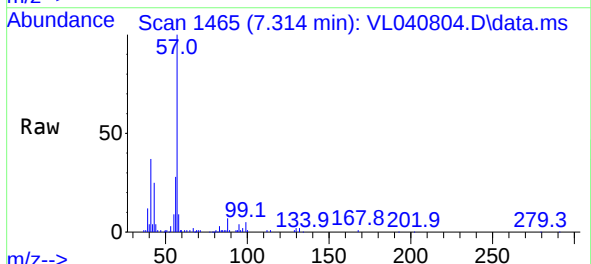
Instrument : MSVOA\_L  
ClientSampleId : MDL-AIR-03-QT4-2023DL

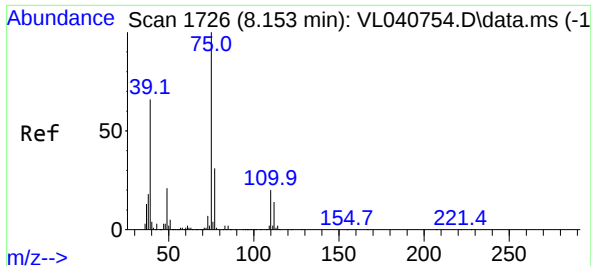
Tgt Ion: 69 Resp: 26212  
Ion Ratio Lower Upper  
69 100  
41 189.1 120.6 181.0#  
100 44.0 27.1 40.7#



#44  
2,2,4-Trimethylpentane  
Concen: 0.478 ppbv  
RT: 7.314 min Scan# 1465  
Delta R.T. -0.026 min  
Lab File: VL040804.D  
Acq: 25 Oct 2023 17:33

Tgt Ion: 57 Resp: 152443  
Ion Ratio Lower Upper  
57 100  
41 37.5 27.4 41.0  
56 33.1 25.0 37.6

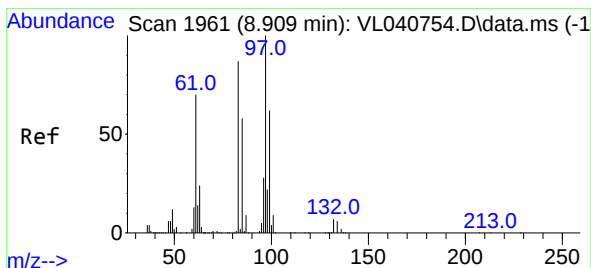
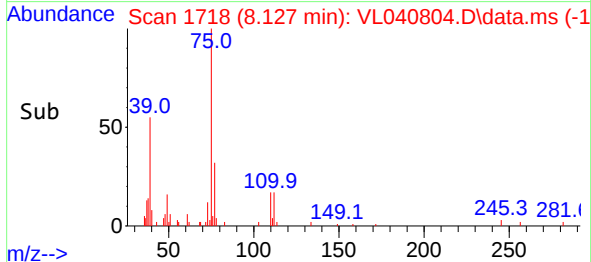
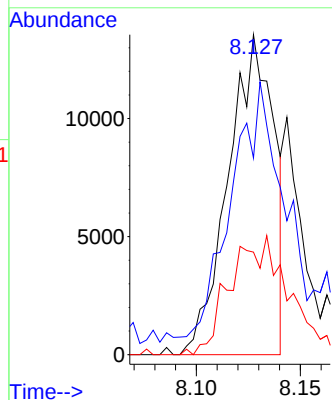
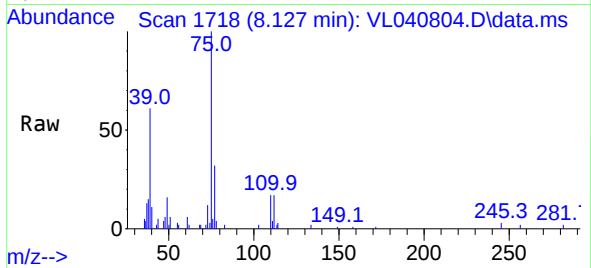




#46  
cis-1,3-Dichloropropene  
Concen: 0.282 ppbv  
RT: 8.127 min Scan# 1  
Delta R.T. -0.026 min  
Lab File: VL040804.D  
Acq: 25 Oct 2023 17:33

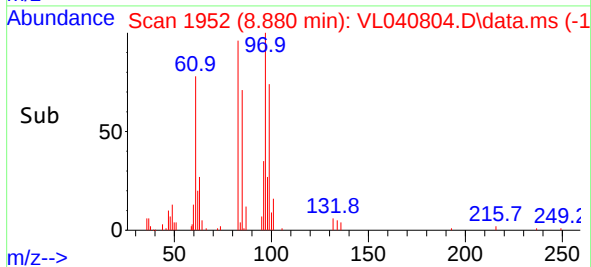
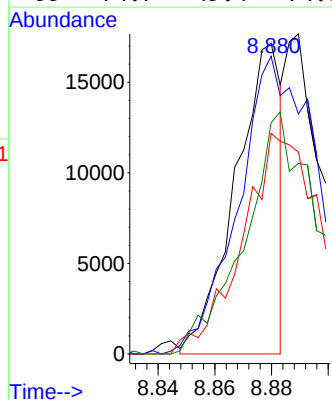
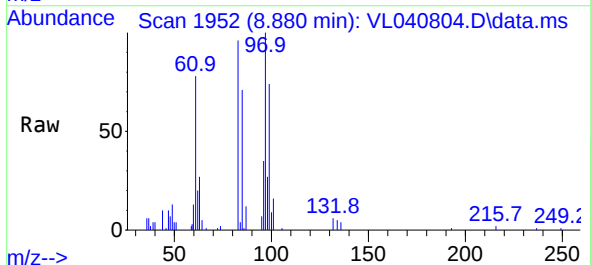
Instrument :  
MSVOA\_L  
ClientSampleId :  
MDL-AIR-03-QT4-2023DL

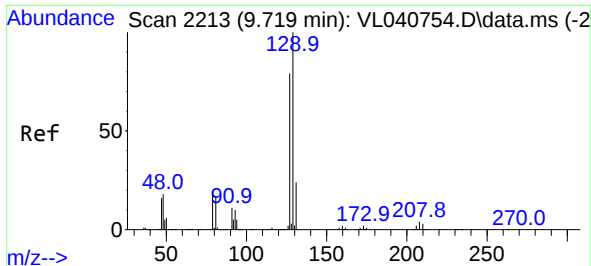
Tgt Ion: 75 Resp: 20733  
Ion Ratio Lower Upper  
75 100  
39 56.0 52.4 78.6  
77 32.1 25.1 37.7



#47  
1,1,2-Trichloroethane  
Concen: 0.247 ppbv  
RT: 8.880 min Scan# 1952  
Delta R.T. -0.029 min  
Lab File: VL040804.D  
Acq: 25 Oct 2023 17:33

Tgt Ion: 97 Resp: 19149  
Ion Ratio Lower Upper  
97 100  
83 94.8 69.5 104.3  
85 67.8 46.6 69.8  
99 74.7 49.4 74.0#

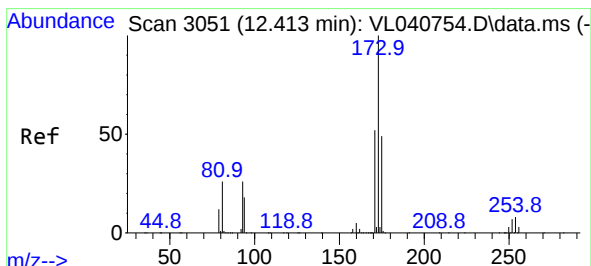
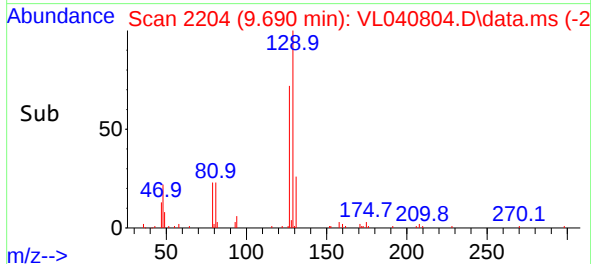
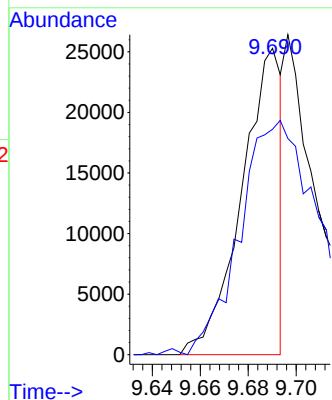
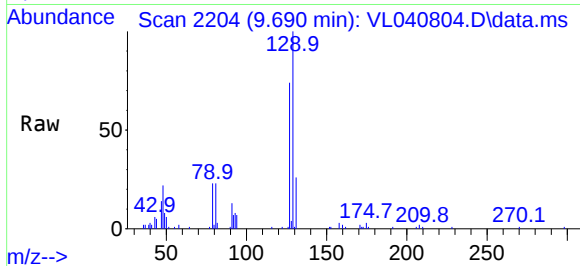




#48  
Dibromochloromethane  
Concen: 0.224 ppbv  
RT: 9.690 min Scan# 21  
Delta R.T. -0.029 min  
Lab File: VL040804.D  
Acq: 25 Oct 2023 17:33

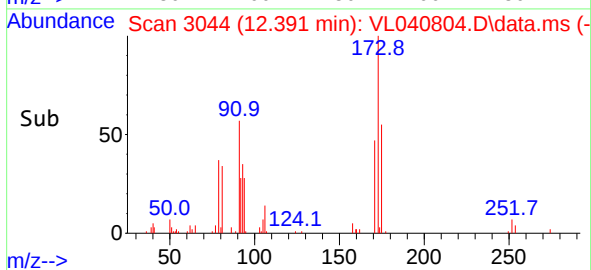
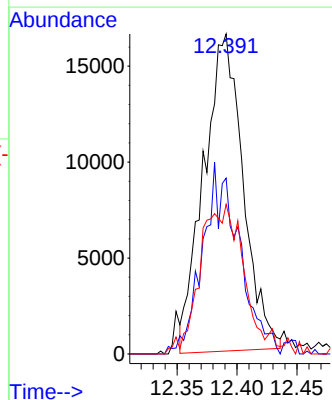
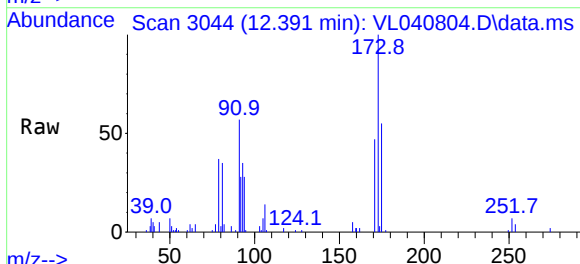
Instrument :  
MSVOA\_L  
ClientSampleId :  
MDL-AIR-03-QT4-2023DL

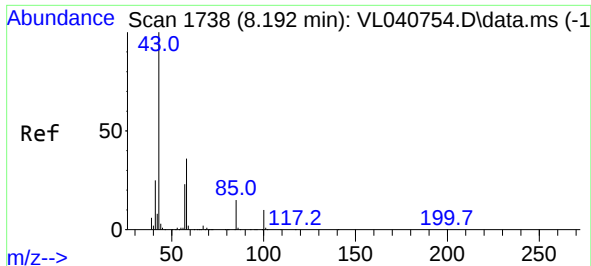
Tgt Ion:129 Resp: 29083  
Ion Ratio Lower Upper  
129 100  
127 0.0 39.1 117.3#



#49  
Bromoform  
Concen: 0.358 ppbv  
RT: 12.391 min Scan# 3044  
Delta R.T. -0.022 min  
Lab File: VL040804.D  
Acq: 25 Oct 2023 17:33

Tgt Ion:173 Resp: 37760  
Ion Ratio Lower Upper  
173 100  
175 57.1 39.2 58.8  
171 53.8 42.0 63.0





#50

4-Methyl-2-Pentanone

Concen: 0.160 ppbv

RT: 8.182 min Scan# 1

Delta R.T. -0.009 min

Lab File: VL040804.D

Acq: 25 Oct 2023 17:33

Instrument :

MSVOA\_L

ClientSampleId :

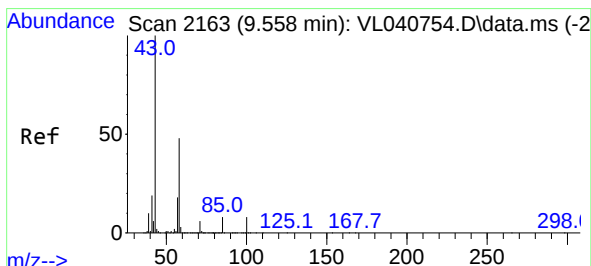
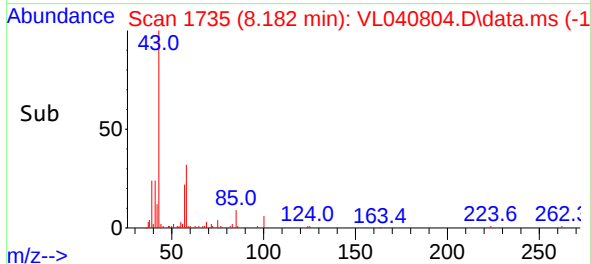
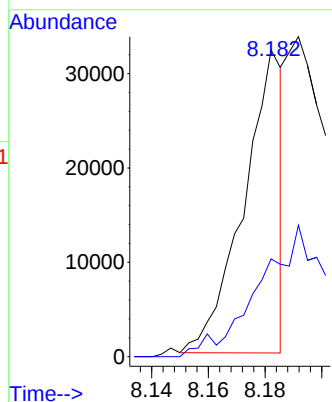
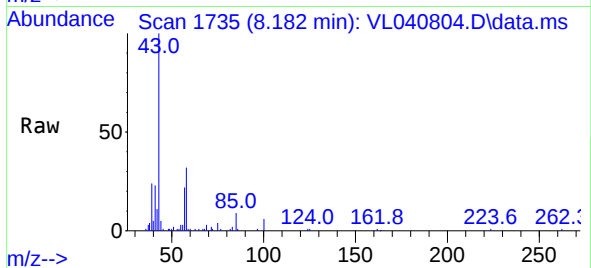
MDL-AIR-03-QT4-2023DL

Tgt Ion: 43 Resp: 30379

Ion Ratio Lower Upper

43 100

58 0.0 28.8 43.2#



#51

2-Hexanone

Concen: 0.088 ppbv

RT: 9.549 min Scan# 2160

Delta R.T. -0.009 min

Lab File: VL040804.D

Acq: 25 Oct 2023 17:33

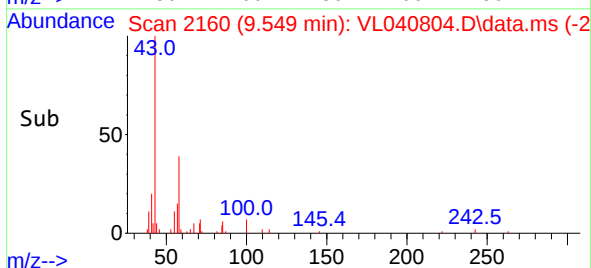
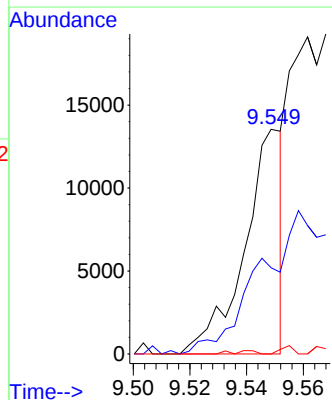
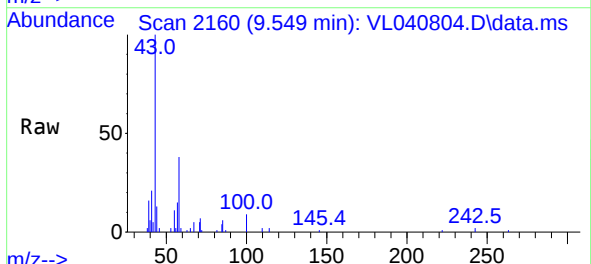
Tgt Ion: 43 Resp: 12652

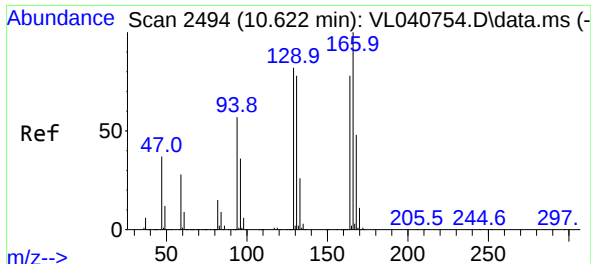
Ion Ratio Lower Upper

43 100

58 0.0 38.6 58.0#

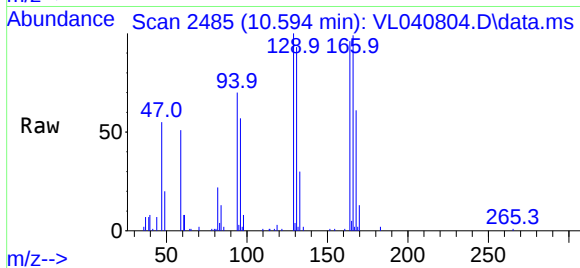
98 0.0 0.0 0.0





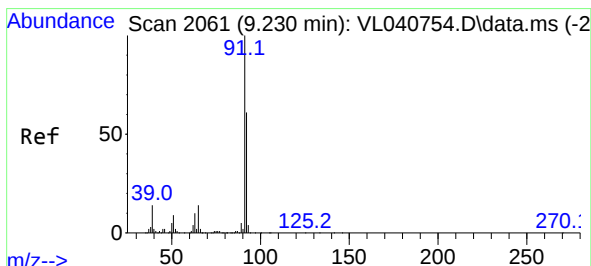
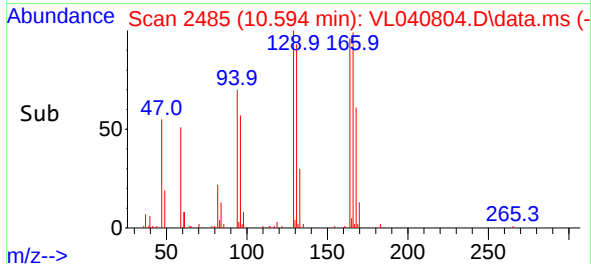
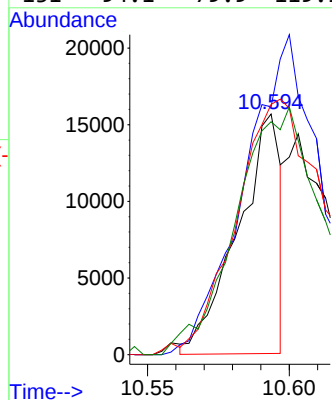
#52  
Tetrachloroethene  
Concen: 0.214 ppbv  
RT: 10.594 min Scan# 2494  
Delta R.T. -0.029 min  
Lab File: VL040804.D  
Acq: 25 Oct 2023 17:33

Instrument :  
MSVOA\_L  
ClientSampleId :  
MDL-AIR-03-QT4-2023DL



Tgt Ion:164 Resp: 16375

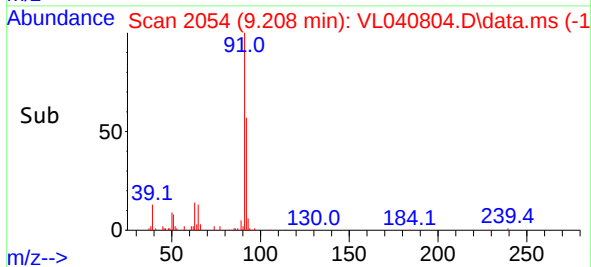
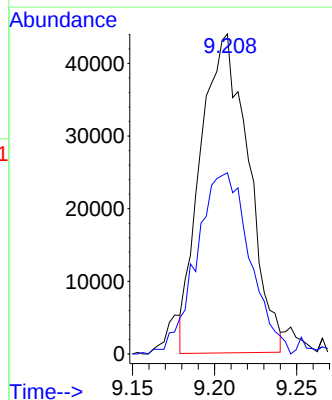
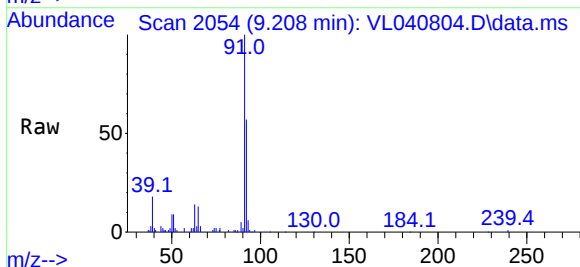
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 164 | 100   |       |       |
| 166 | 103.4 | 102.4 | 153.6 |
| 129 | 105.6 | 84.2  | 126.4 |
| 131 | 94.1  | 79.9  | 119.9 |

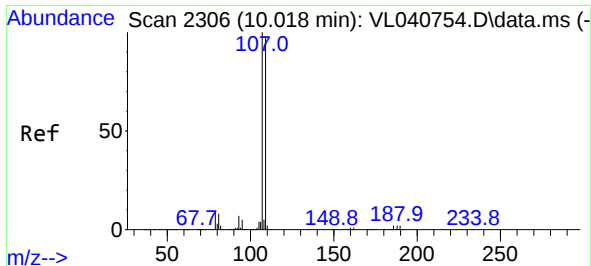


#53  
Toluene  
Concen: 0.396 ppbv  
RT: 9.208 min Scan# 2054  
Delta R.T. -0.022 min  
Lab File: VL040804.D  
Acq: 25 Oct 2023 17:33

Tgt Ion: 91 Resp: 88784

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 91  | 100   |       |       |
| 92  | 65.2  | 50.2  | 75.2  |

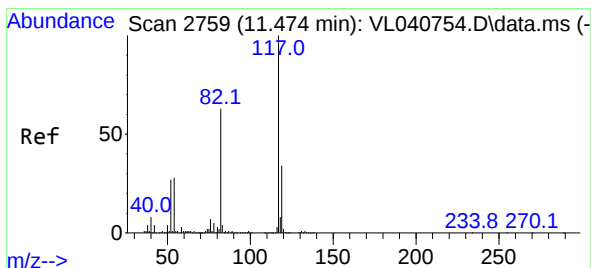
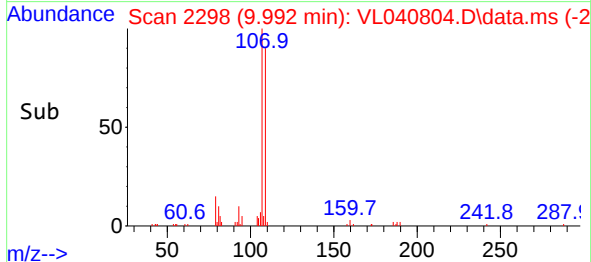
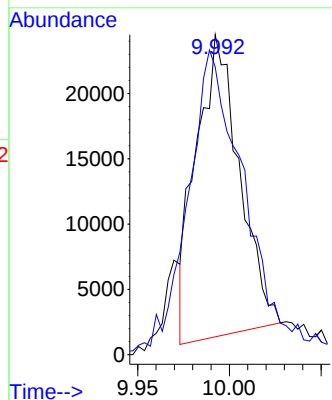
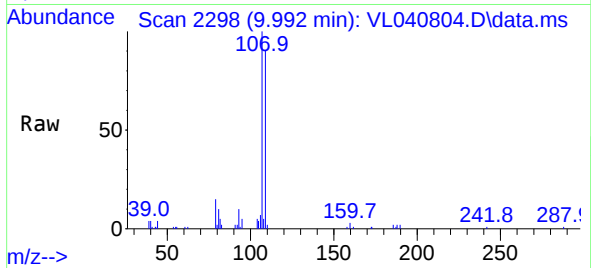




#54  
1,2-Dibromoethane  
Concen: 0.349 ppbv  
RT: 9.992 min Scan# 21  
Delta R.T. -0.026 min  
Lab File: VL040804.D  
Acq: 25 Oct 2023 17:33

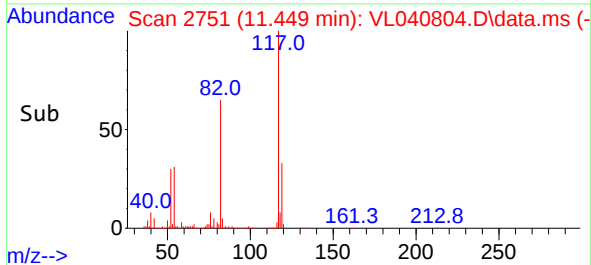
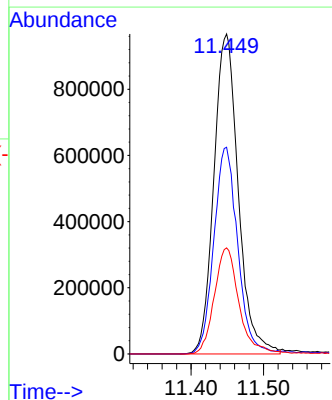
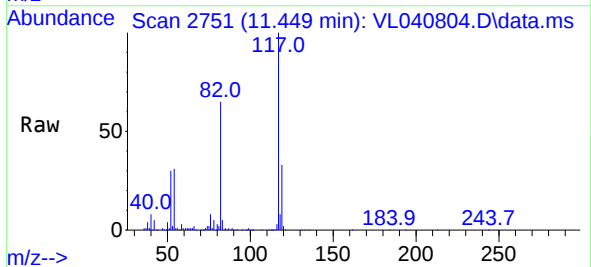
Instrument :  
MSVOA\_L  
ClientSampleId :  
MDL-AIR-03-QT4-2023DL

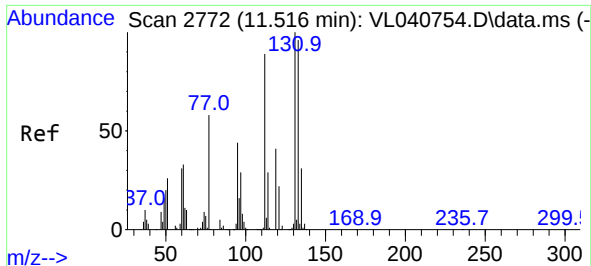
Tgt Ion:107 Resp: 37863  
Ion Ratio Lower Upper  
107 100  
109 88.8 78.2 117.2



#55  
Chlorobenzene-d5  
Concen: 10.000 ppbv  
RT: 11.449 min Scan# 2751  
Delta R.T. -0.026 min  
Lab File: VL040804.D  
Acq: 25 Oct 2023 17:33

Tgt Ion:117 Resp: 2262749  
Ion Ratio Lower Upper  
117 100  
82 64.6 46.6 70.0  
119 33.8 26.0 39.0





#56

1,1,1,2-Tetrachloroethane

Concen: 0.324 ppbv

RT: 11.487 min Scan# 21

Delta R.T. -0.029 min

Lab File: VL040804.D

Acq: 25 Oct 2023 17:33

Instrument :

MSVOA\_L

ClientSampleId :

MDL-AIR-03-QT4-2023DL

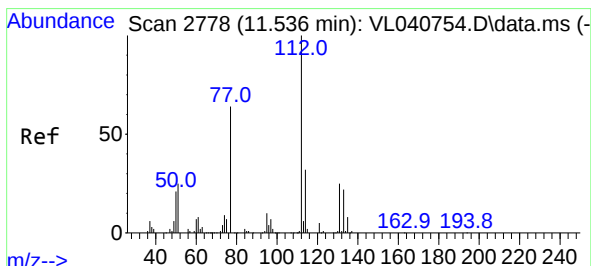
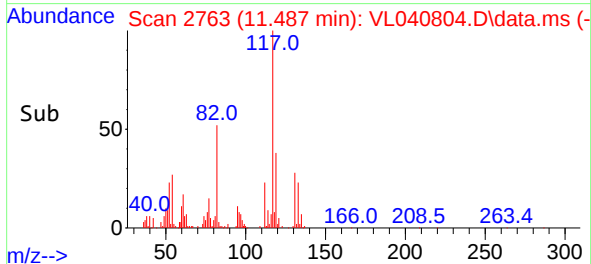
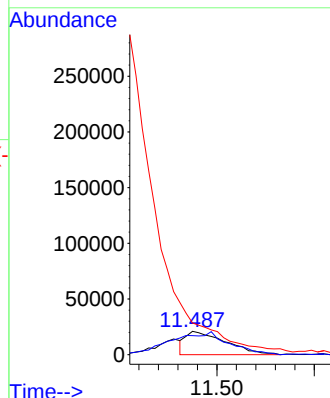
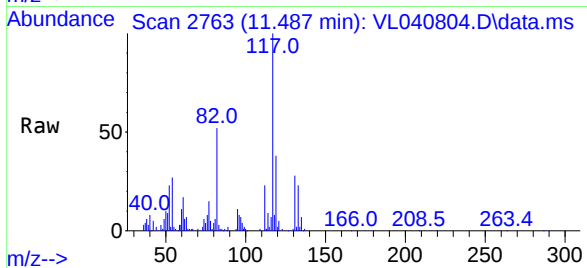
Tgt Ion:131 Resp: 29905

Ion Ratio Lower Upper

131 100

133 145.9 75.0 112.6#

119 0.0 45.4 68.0#



#57

Chlorobenzene

Concen: 0.506 ppbv

RT: 11.507 min Scan# 2769

Delta R.T. -0.029 min

Lab File: VL040804.D

Acq: 25 Oct 2023 17:33

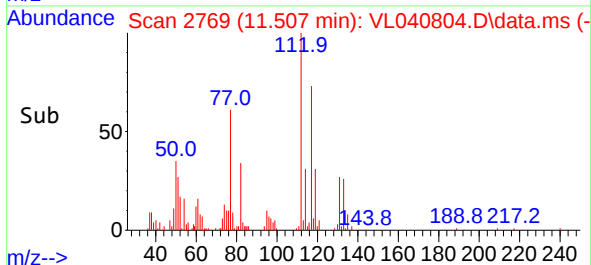
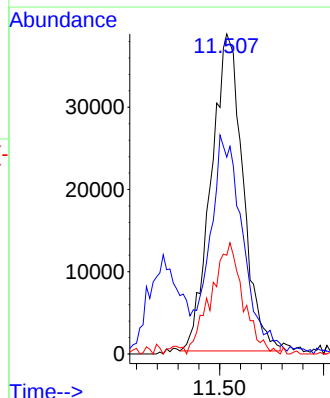
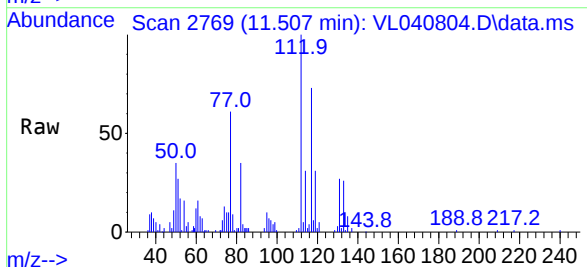
Tgt Ion:112 Resp: 82059

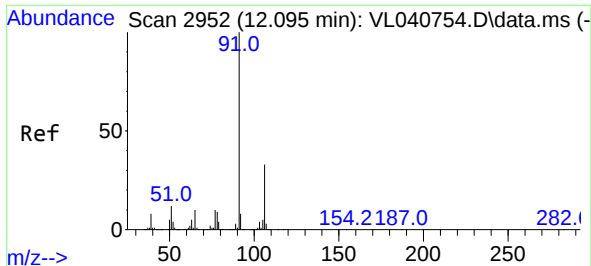
Ion Ratio Lower Upper

112 100

77 59.4 51.9 77.9

114 31.5 28.6 35.0

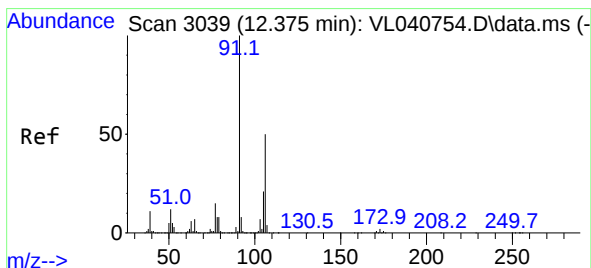
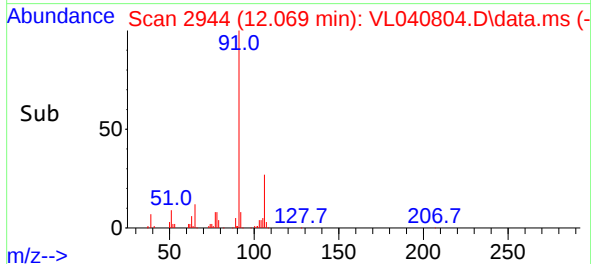
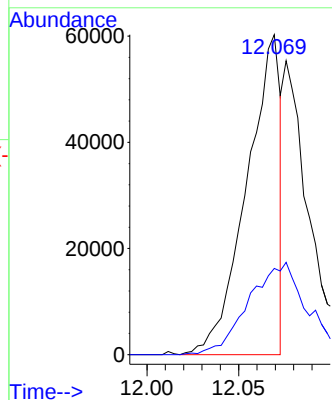
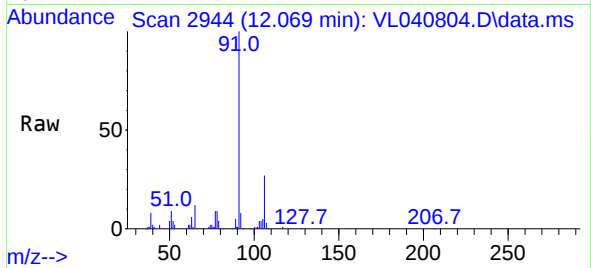




#58  
Ethyl Benzene  
Concen: 0.270 ppbv  
RT: 12.069 min Scan# 2952  
Delta R.T. -0.026 min  
Lab File: VL040804.D  
Acq: 25 Oct 2023 17:33

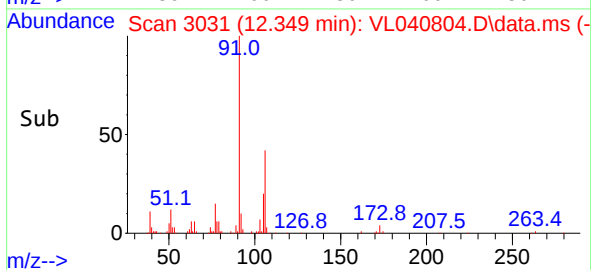
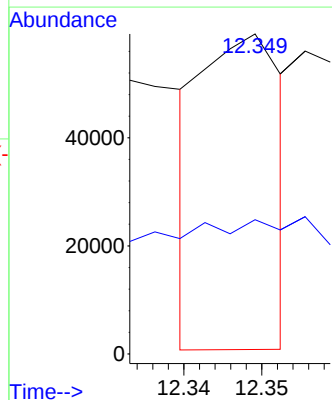
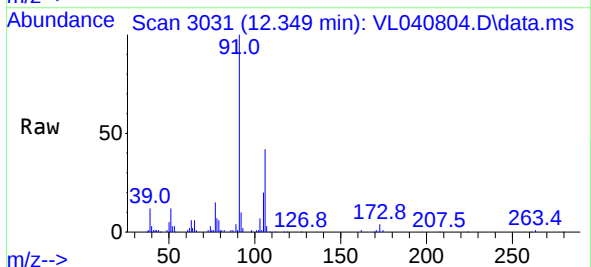
Instrument : MSVOA\_L  
ClientSampleId : MDL-AIR-03-QT4-2023DL

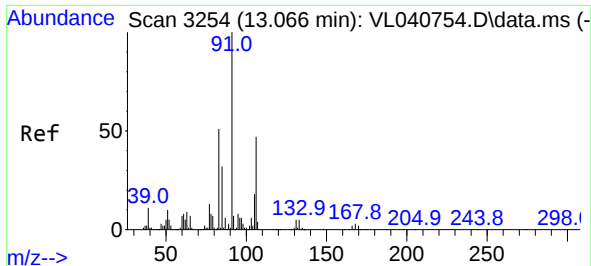
Tgt Ion: 91 Resp: 76878  
Ion Ratio Lower Upper  
91 100  
106 26.9 26.7 40.1



#59  
m/p-Xylene  
Concen: 0.179 ppbv  
RT: 12.349 min Scan# 3031  
Delta R.T. -0.026 min  
Lab File: VL040804.D  
Acq: 25 Oct 2023 17:33

Tgt Ion: 91 Resp: 41883  
Ion Ratio Lower Upper  
91 100  
106 0.0 37.7 56.5#

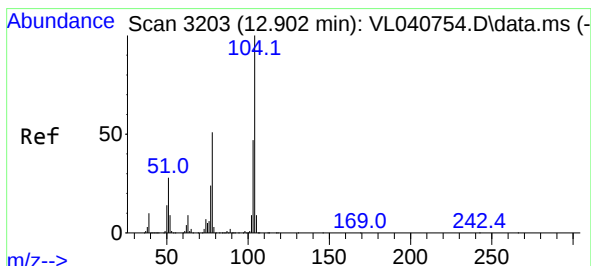
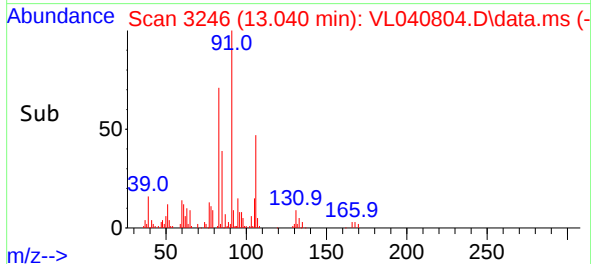
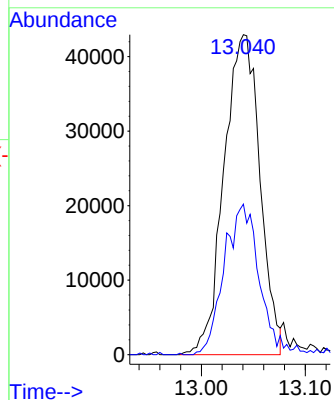
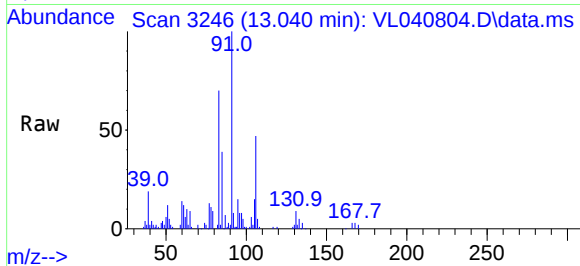




#60  
o-Xylene  
Concen: 0.462 ppbv  
RT: 13.040 min Scan# 3195  
Delta R.T. -0.026 min  
Lab File: VL040804.D  
Acq: 25 Oct 2023 17:33

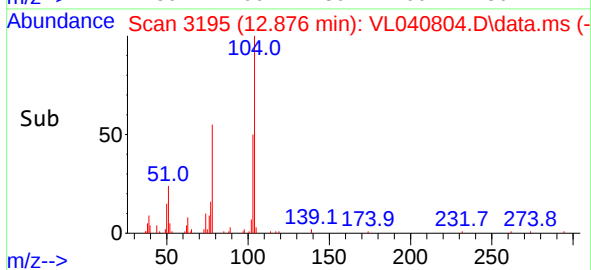
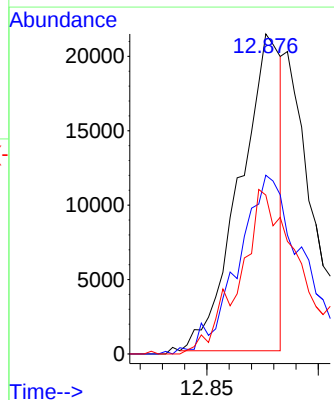
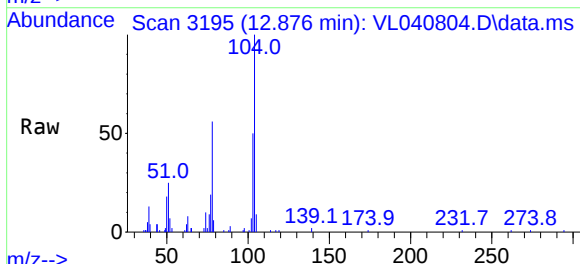
Instrument :  
MSVOA\_L  
ClientSampleId :  
MDL-AIR-03-QT4-2023DL

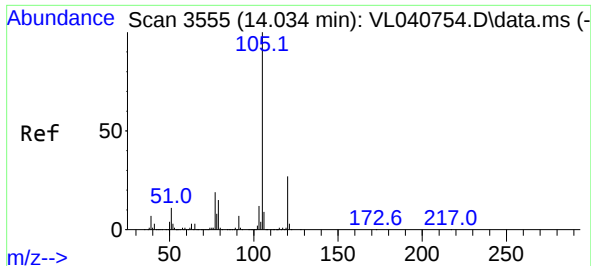
Tgt Ion: 91 Resp: 103152  
Ion Ratio Lower Upper  
91 100  
106 46.7 23.5 70.5



#61  
Styrene  
Concen: 0.220 ppbv  
RT: 12.876 min Scan# 3195  
Delta R.T. -0.026 min  
Lab File: VL040804.D  
Acq: 25 Oct 2023 17:33

Tgt Ion: 104 Resp: 27210  
Ion Ratio Lower Upper  
104 100  
78 92.3 39.8 59.6#  
103 80.9 37.5 56.3#

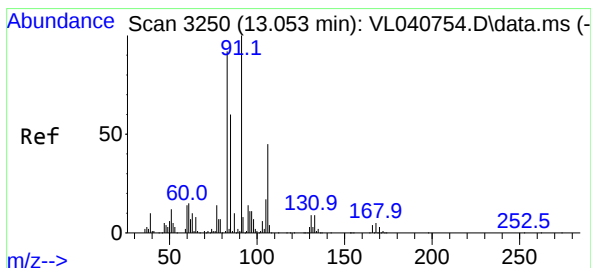
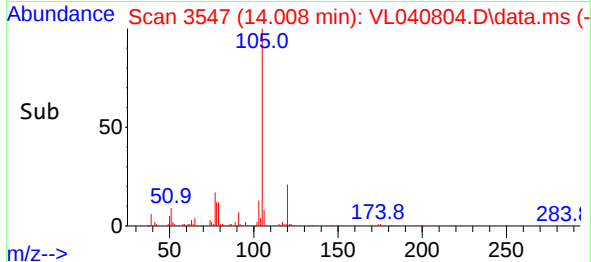
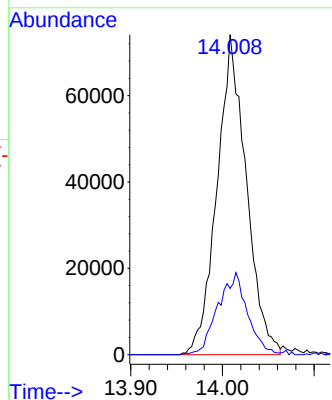
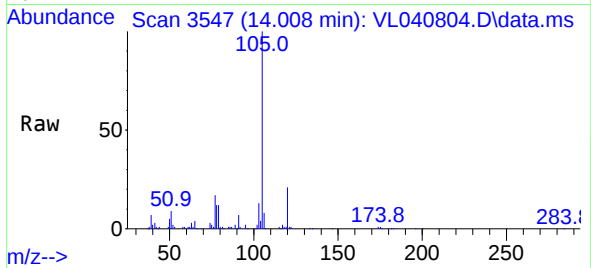




#62  
Isopropylbenzene  
Concen: 0.478 ppbv  
RT: 14.008 min Scan# 31  
Delta R.T. -0.026 min  
Lab File: VL040804.D  
Acq: 25 Oct 2023 17:33

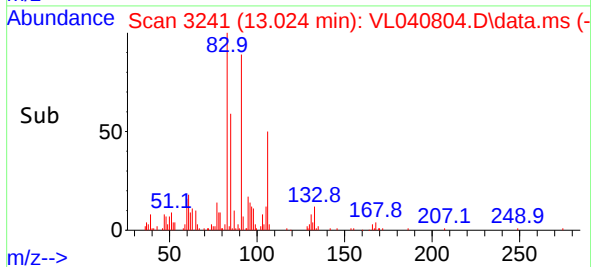
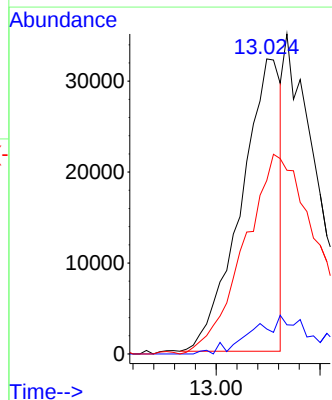
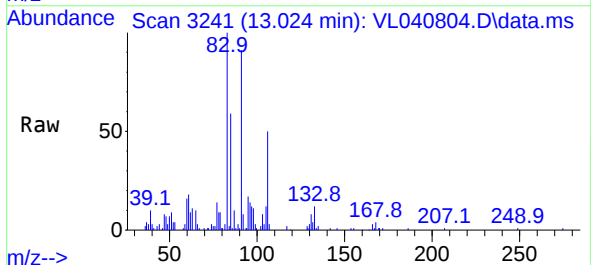
Instrument :  
MSVOA\_L  
ClientSampleId :  
MDL-AIR-03-QT4-2023DL

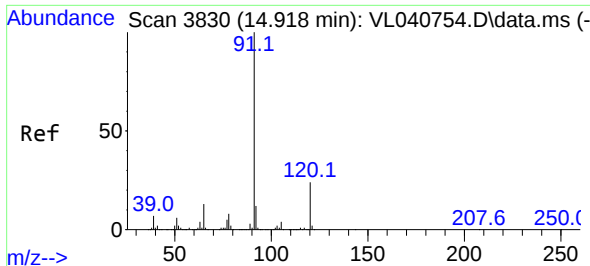
Tgt Ion:105 Resp: 164166  
Ion Ratio Lower Upper  
105 100  
120 26.3 21.5 32.3



#63  
1,1,2,2-Tetrachloroethane  
Concen: 0.256 ppbv  
RT: 13.024 min Scan# 3241  
Delta R.T. -0.029 min  
Lab File: VL040804.D  
Acq: 25 Oct 2023 17:33

Tgt Ion: 83 Resp: 42901  
Ion Ratio Lower Upper  
83 100  
131 0.0 4.9 14.6#  
85 0.0 32.9 98.7#

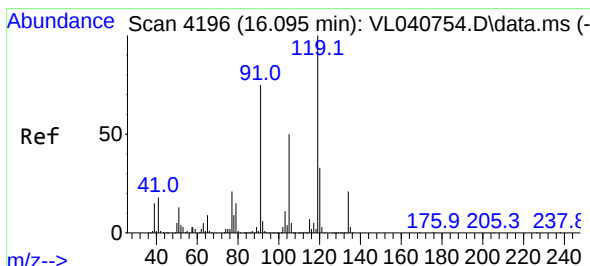
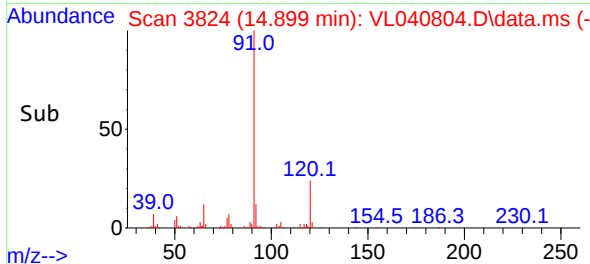
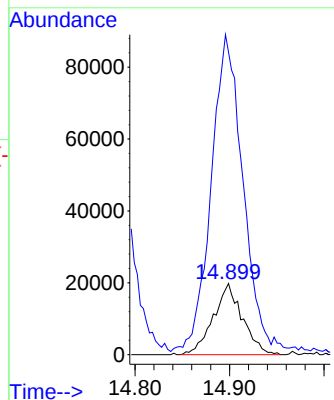
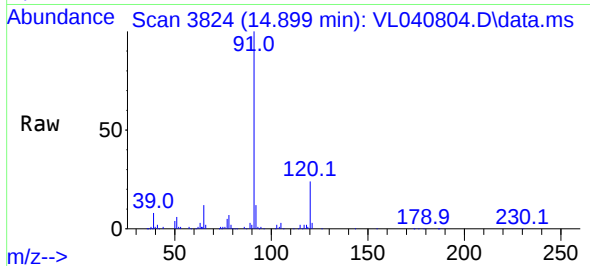




#64  
n-propylbenzene  
Concen: 0.458 ppbv  
RT: 14.899 min Scan# 3824  
Delta R.T. -0.019 min  
Lab File: VL040804.D  
Acq: 25 Oct 2023 17:33

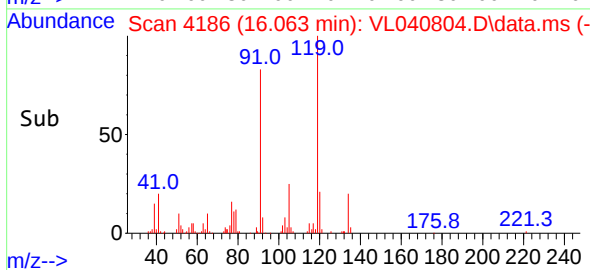
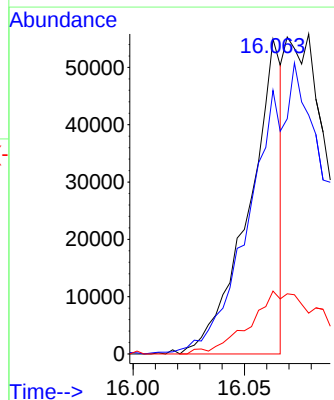
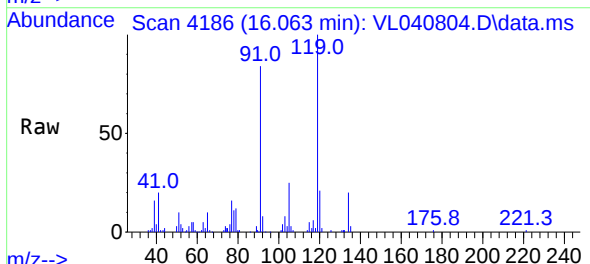
Instrument : MSVOA\_L  
ClientSampleId : MDL-AIR-03-QT4-2023DL

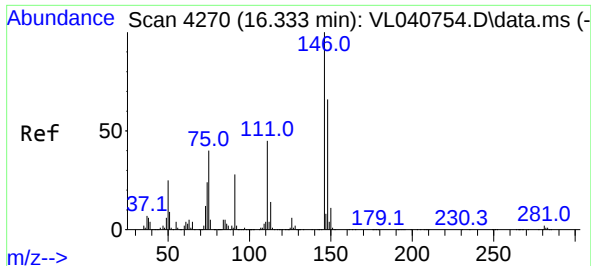
Tgt Ion:120 Resp: 42285  
Ion Ratio Lower Upper  
120 100  
91 513.6 345.9 518.9



#65  
tert-Butylbenzene  
Concen: 0.182 ppbv  
RT: 16.063 min Scan# 4186  
Delta R.T. -0.032 min  
Lab File: VL040804.D  
Acq: 25 Oct 2023 17:33

Tgt Ion:119 Resp: 56304  
Ion Ratio Lower Upper  
119 100  
91 0.0 62.2 93.2#  
134 46.9 16.1 24.1#

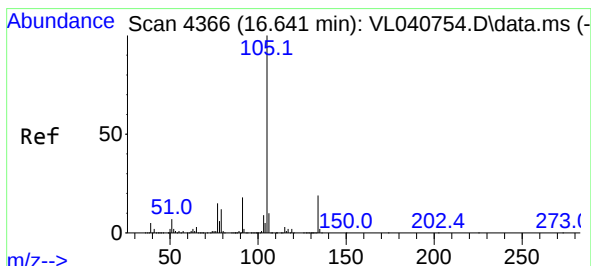
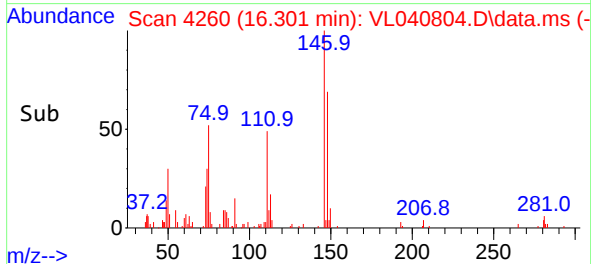
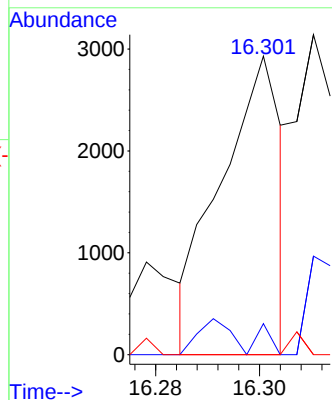
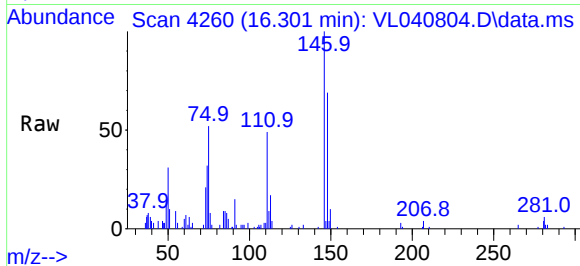




#66  
Benzyl Chloride  
Concen: 0.076 ppbv  
RT: 16.301 min Scan# 41  
Delta R.T. -0.032 min  
Lab File: VL040804.D  
Acq: 25 Oct 2023 17:33

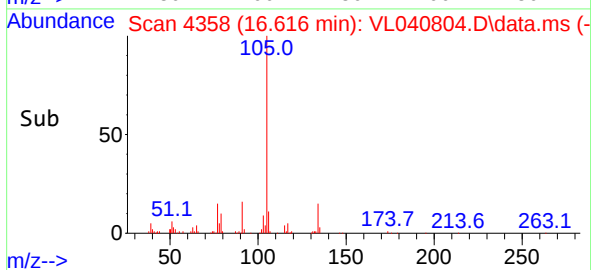
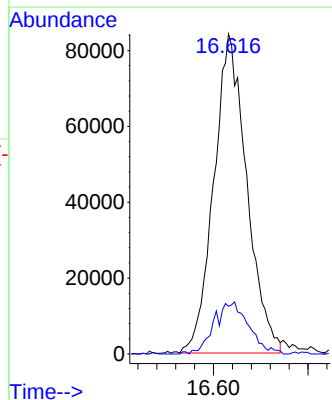
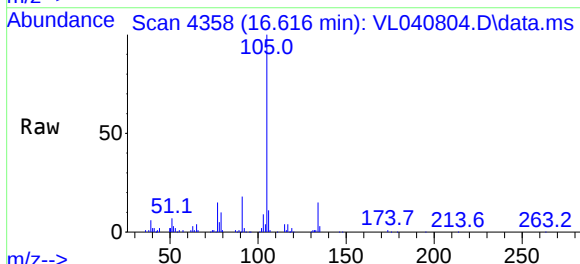
Instrument :  
MSVOA\_L  
ClientSampleId :  
MDL-AIR-03-QT4-2023DL

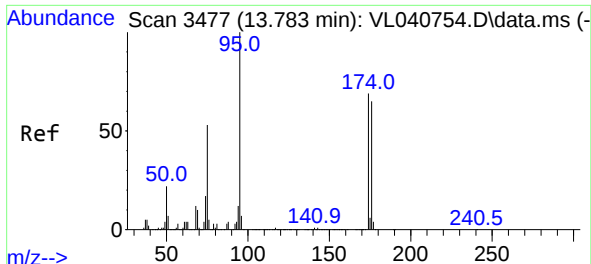
Tgt Ion: 91 Resp: 2365  
Ion Ratio Lower Upper  
91 100  
126 6.5 16.1 24.1#  
128 1.3 5.2 7.8#



#67  
sec-Butylbenzene  
Concen: 0.479 ppbv  
RT: 16.616 min Scan# 4358  
Delta R.T. -0.026 min  
Lab File: VL040804.D  
Acq: 25 Oct 2023 17:33

Tgt Ion: 105 Resp: 203450  
Ion Ratio Lower Upper  
105 100  
134 17.3 15.4 23.2

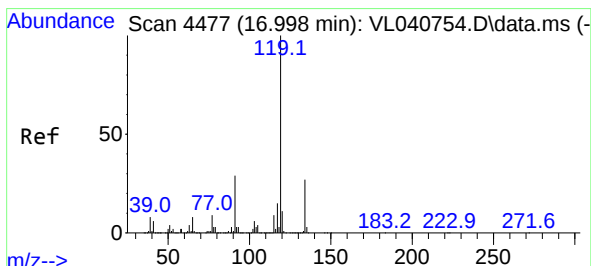
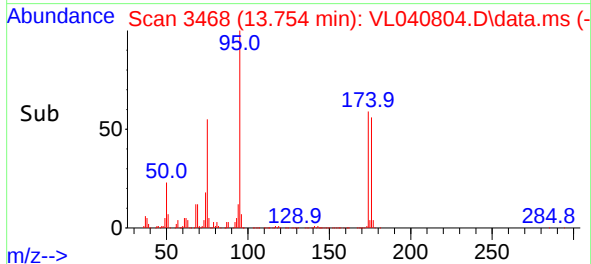
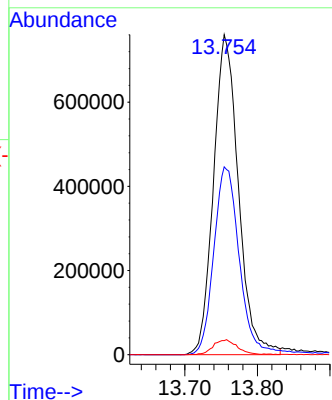
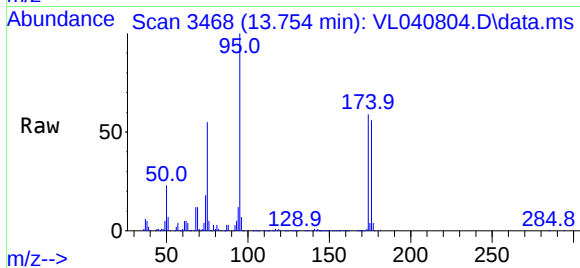




#68  
1-Bromo-4-Fluorobenzene  
Concen: 10.902 ppbv  
RT: 13.754 min Scan# 3477  
Delta R.T. -0.029 min  
Lab File: VL040804.D  
Acq: 25 Oct 2023 17:33

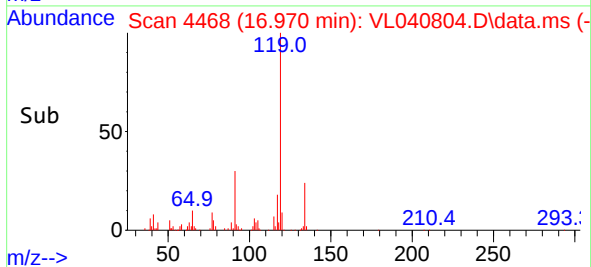
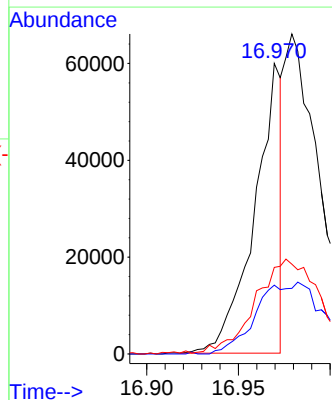
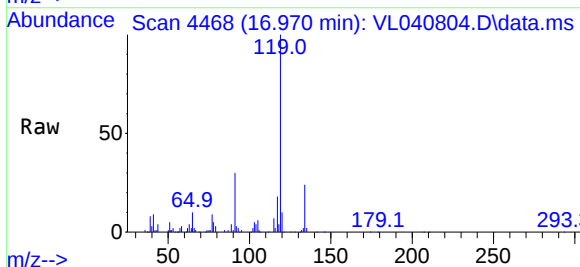
Instrument :  
MSVOA\_L  
ClientSampleId :  
MDL-AIR-03-QT4-2023DL

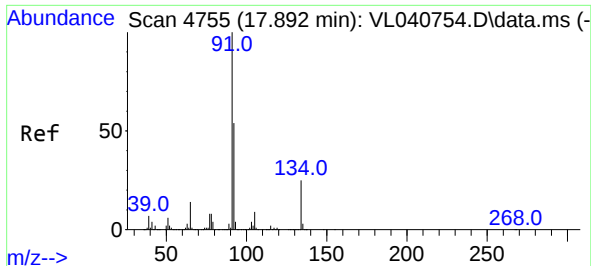
Tgt Ion: 95 Resp: 1815217  
Ion Ratio Lower Upper  
95 100  
174 61.7 54.7 82.1  
175 4.6 4.2 6.4



#69  
p-Isopropyltoluene  
Concen: 0.172 ppbv  
RT: 16.970 min Scan# 4468  
Delta R.T. -0.029 min  
Lab File: VL040804.D  
Acq: 25 Oct 2023 17:33

Tgt Ion: 119 Resp: 61345  
Ion Ratio Lower Upper  
119 100  
134 0.0 21.0 31.4#  
91 0.0 22.8 34.2#

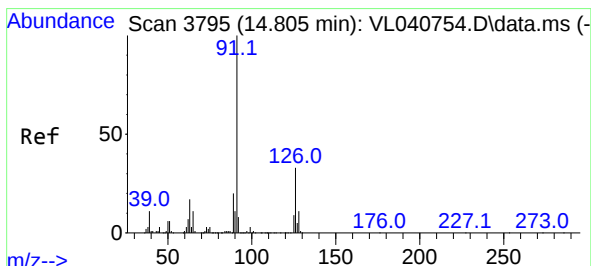
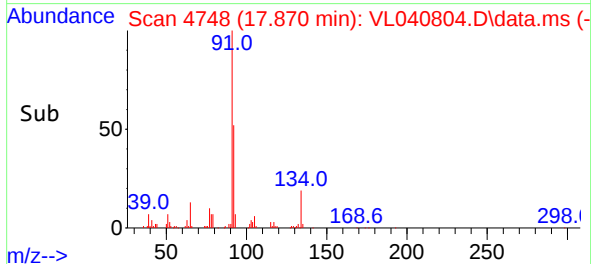
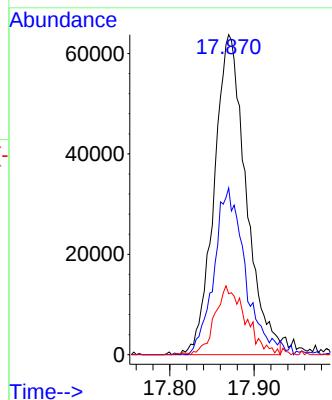
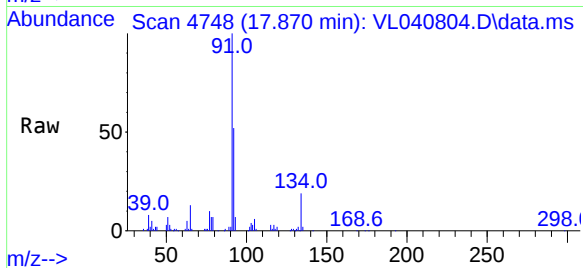




#70  
n-Butylbenzene  
Concen: 0.478 ppbv  
RT: 17.870 min Scan# 41  
Delta R.T. -0.022 min  
Lab File: VL040804.D  
Acq: 25 Oct 2023 17:33

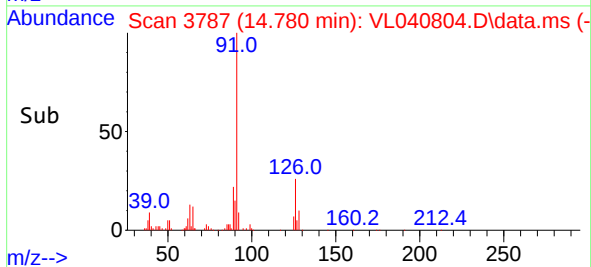
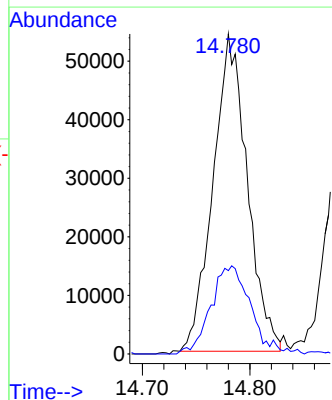
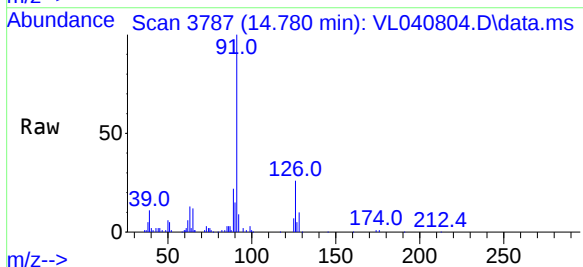
Instrument :  
MSVOA\_L  
ClientSampleId :  
MDL-AIR-03-QT4-2023DL

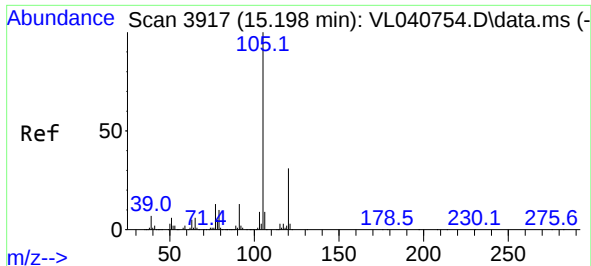
Tgt Ion: 91 Resp: 166938  
Ion Ratio Lower Upper  
91 100  
92 52.1 44.1 66.1  
134 21.2 19.5 29.3



#71  
2-Chlorotoluene  
Concen: 0.464 ppbv  
RT: 14.780 min Scan# 3787  
Delta R.T. -0.026 min  
Lab File: VL040804.D  
Acq: 25 Oct 2023 17:33

Tgt Ion: 91 Resp: 119772  
Ion Ratio Lower Upper  
91 100  
126 33.1 13.3 53.1

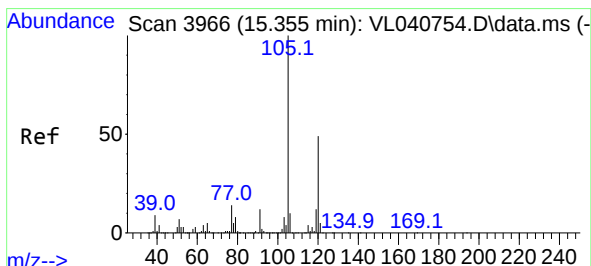
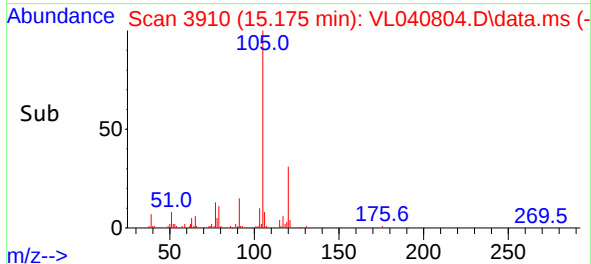
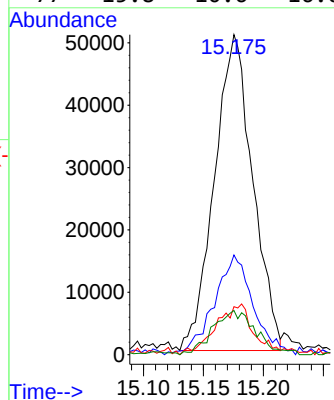
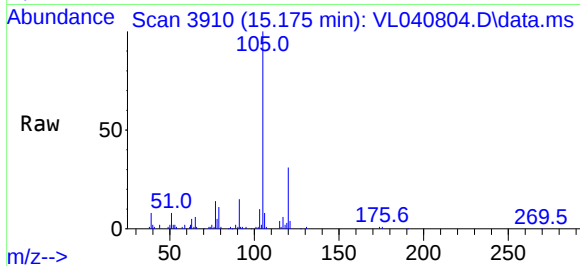




#72  
4-Ethyltoluene  
Concen: 0.430 ppbv  
RT: 15.175 min Scan# 3910  
Delta R.T. -0.022 min  
Lab File: VL040804.D  
Acq: 25 Oct 2023 17:33

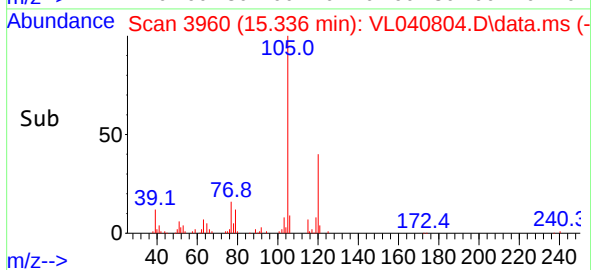
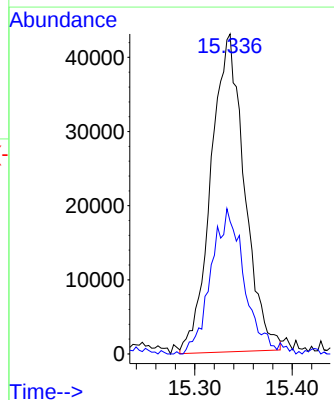
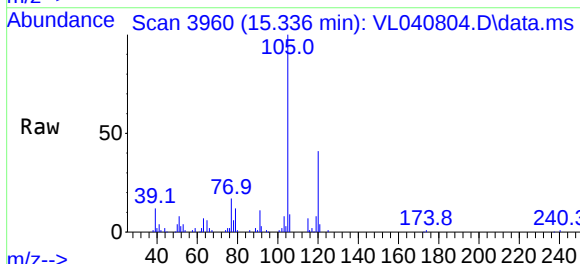
Instrument :  
MSVOA\_L  
ClientSampleId :  
MDL-AIR-03-QT4-2023DL

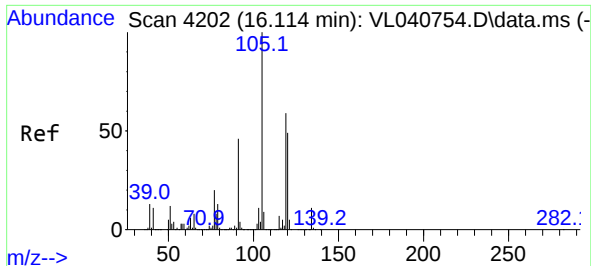
Tgt Ion:105 Resp: 112414  
Ion Ratio Lower Upper  
105 100  
120 33.3 25.0 37.4  
91 17.9 9.8 14.8#  
77 15.8 10.6 16.0



#73  
1,3,5-Trimethylbenzene  
Concen: 0.444 ppbv  
RT: 15.336 min Scan# 3960  
Delta R.T. -0.019 min  
Lab File: VL040804.D  
Acq: 25 Oct 2023 17:33

Tgt Ion:105 Resp: 102358  
Ion Ratio Lower Upper  
105 100  
120 45.6 39.4 59.2



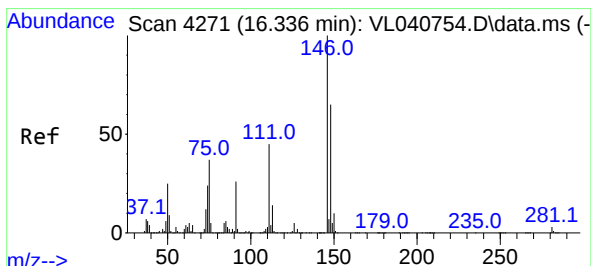
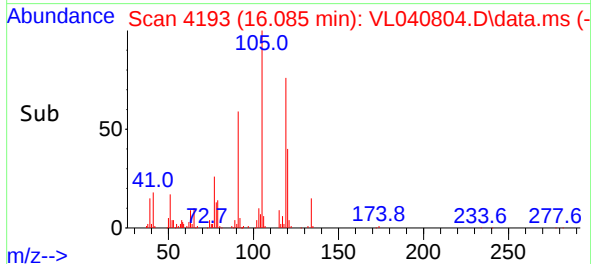
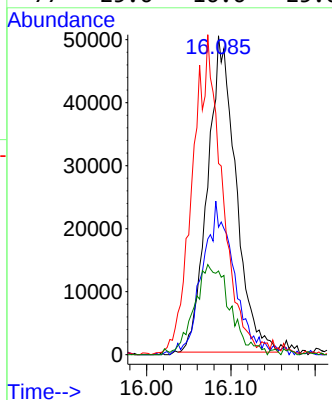
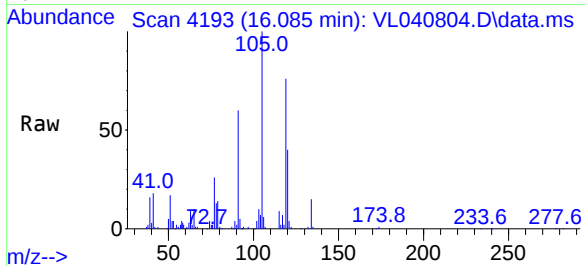


#74  
1,2,4-Trimethylbenzene  
Concen: 0.466 ppbv  
RT: 16.085 min Scan# 41  
Delta R.T. -0.029 min  
Lab File: VL040804.D  
Acq: 25 Oct 2023 17:33

Instrument :  
MSVOA\_L  
ClientSampleId :  
MDL-AIR-03-QT4-2023DL

Tgt Ion:105 Resp: 117157

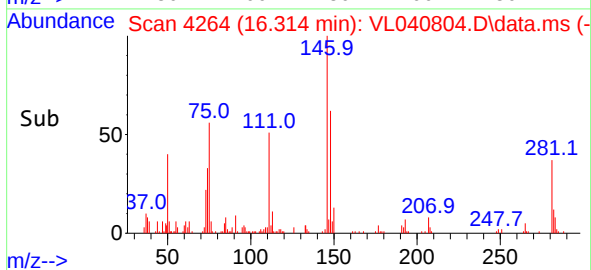
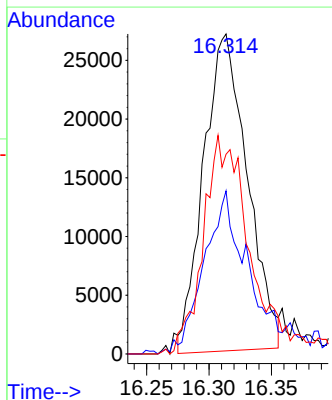
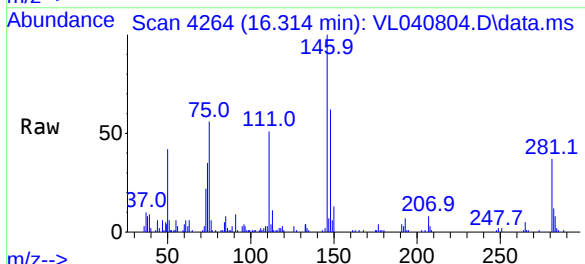
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 105 | 100   |       |       |
| 120 | 42.9  | 39.4  | 59.2  |
| 91  | 58.3  | 38.6  | 58.0# |
| 77  | 25.6  | 16.6  | 25.0# |

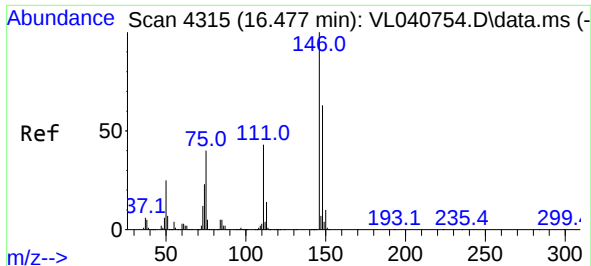


#75  
1,3-Dichlorobenzene  
Concen: 0.422 ppbv  
RT: 16.314 min Scan# 4264  
Delta R.T. -0.022 min  
Lab File: VL040804.D  
Acq: 25 Oct 2023 17:33

Tgt Ion:146 Resp: 66032

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 146 | 100   |       |       |
| 111 | 56.5  | 22.6  | 67.7  |
| 148 | 74.3  | 32.4  | 97.0  |

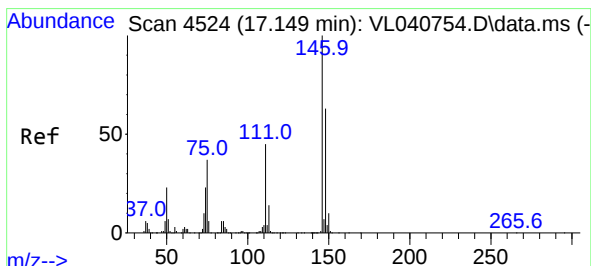
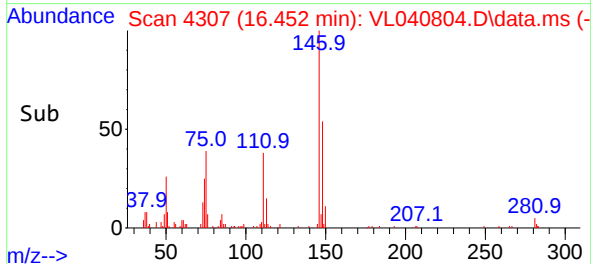
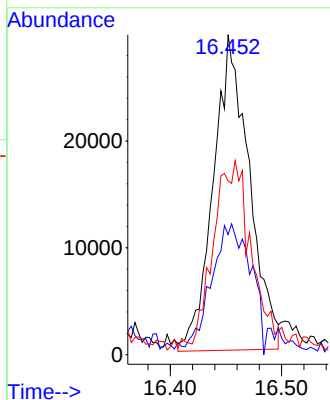
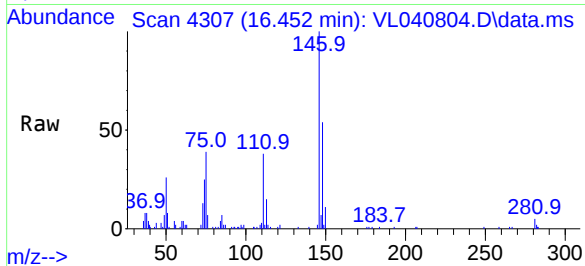




#76  
1,4-Dichlorobenzene  
Concen: 0.426 ppbv  
RT: 16.452 min Scan# 41  
Delta R.T. -0.026 min  
Lab File: VL040804.D  
Acq: 25 Oct 2023 17:33

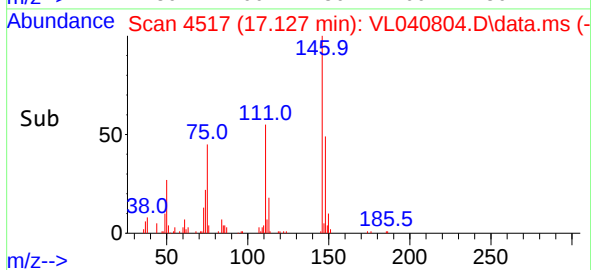
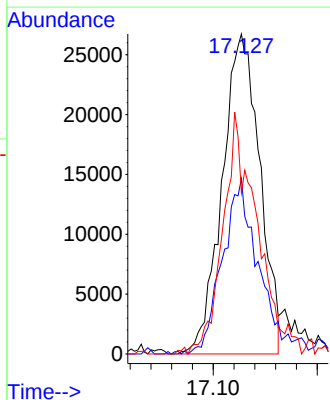
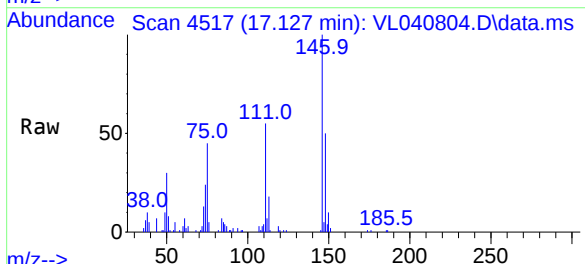
Instrument :  
MSVOA\_L  
ClientSampleId :  
MDL-AIR-03-QT4-2023DL

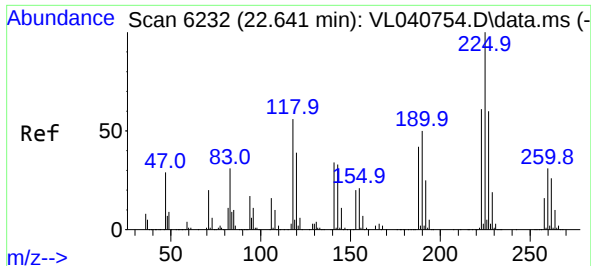
Tgt Ion:146 Resp: 66064  
Ion Ratio Lower Upper  
146 100  
111 53.2 22.0 66.0  
148 74.9 33.4 100.1



#77  
1,2-Dichlorobenzene  
Concen: 0.437 ppbv  
RT: 17.127 min Scan# 4517  
Delta R.T. -0.022 min  
Lab File: VL040804.D  
Acq: 25 Oct 2023 17:33

Tgt Ion:146 Resp: 67146  
Ion Ratio Lower Upper  
146 100  
111 51.7 22.9 68.8  
148 69.6 32.3 96.8

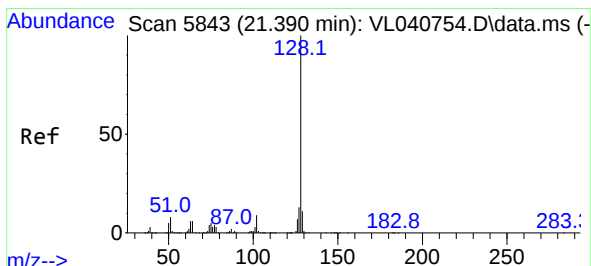
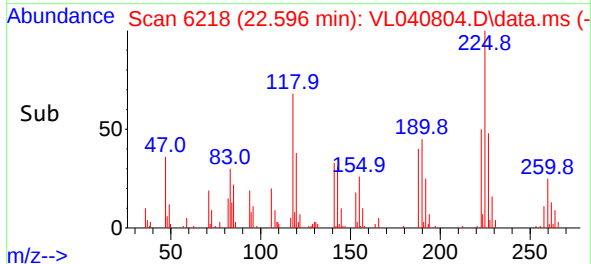
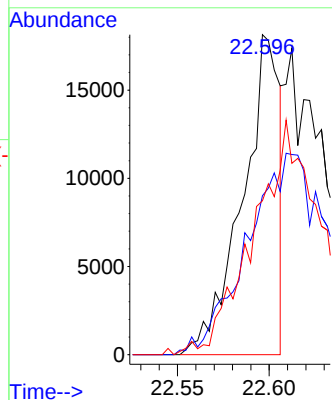
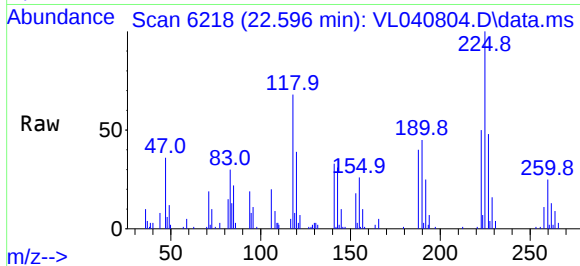




#78  
Hexachloro-1,3-Butadiene  
Concen: 0.230 ppbv  
RT: 22.596 min Scan# 618  
Delta R.T. -0.045 min  
Lab File: VL040804.D  
Acq: 25 Oct 2023 17:33

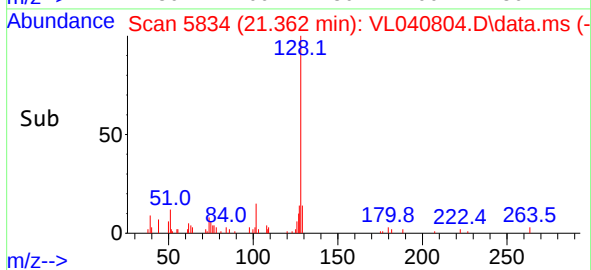
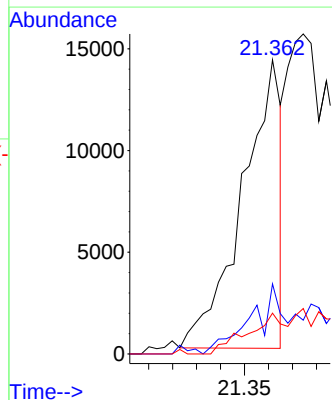
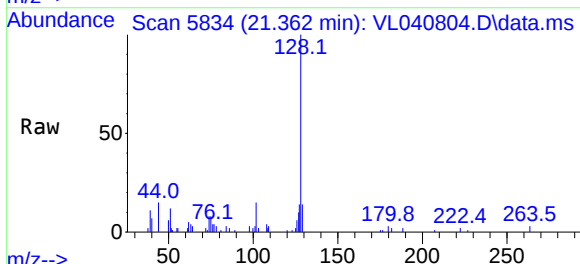
Instrument :  
MSVOA\_L  
ClientSampleId :  
MDL-AIR-03-QT4-2023DL

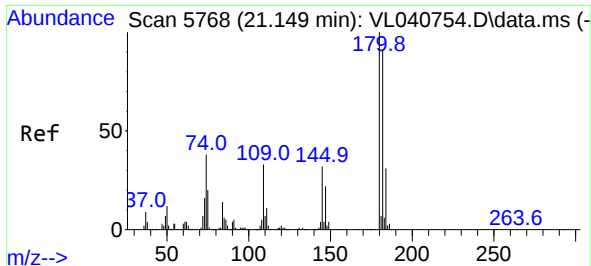
Tgt Ion:225 Resp: 25299  
Ion Ratio Lower Upper  
225 100  
223 0.0 50.7 76.1#  
227 0.0 51.4 77.0#



#79  
Naphthalene  
Concen: 0.078 ppbv  
RT: 21.362 min Scan# 5834  
Delta R.T. -0.029 min  
Lab File: VL040804.D  
Acq: 25 Oct 2023 17:33

Tgt Ion:128 Resp: 15871  
Ion Ratio Lower Upper  
128 100  
127 21.2 10.6 15.8#  
129 12.6 9.0 13.4





#81

1,2,4-Trichlorobenzene

Concen: 0.154 ppbv

RT: 21.120 min Scan# 51

Delta R.T. -0.029 min

Lab File: VL040804.D

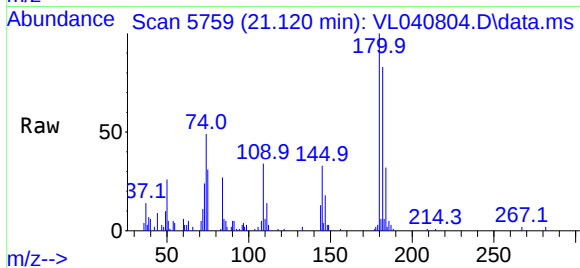
Acq: 25 Oct 2023 17:33

Instrument :

MSVOA\_L

ClientSampleId :

MDL-AIR-03-QT4-2023DL



Tgt Ion:180 Resp: 17053

Ion Ratio Lower Upper

180 100

182 0.0 77.9 116.9#

184 0.0 25.0 37.6#

