

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL041223\  
 Data File : VL040348.D  
 Acq On : 12 Apr 2023 22:43  
 Operator : SY/MD  
 Sample : 02213-15 0.45 MDL  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 MDL-AIR-03-QT2-2023

Quant Time: Apr 13 05:42:16 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL031523AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 26 06:05:16 2022  
 QLast Update : Tue Apr 11 04:15:53 2023  
 Response via : Initial Calibration

| Compound                | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------|--------|------|----------|--------|-------|----------|
| -----                   |        |      |          |        |       |          |
| Internal Standards      |        |      |          |        |       |          |
| 1) Bromochloromethane   | 5.189  | 49   | 935047   | 10.000 | ppbv  | 0.00     |
| 33) 1,4-Difluorobenzene | 6.655  | 114  | 2444441  | 10.000 | ppbv  | 0.00     |
| 55) Chlorobenzene-d5    | 11.478 | 117  | 2172544  | 10.000 | ppbv  | 0.00     |

|                             |        |       |          |          |      |          |
|-----------------------------|--------|-------|----------|----------|------|----------|
| System Monitoring Compounds |        |       |          |          |      |          |
| 68) 1-Bromo-4-Fluorobenzene | 13.790 | 95    | 1844176  | 10.137   | ppbv | 0.00     |
| Spiked Amount               | 10.000 | Range | 65 - 135 | Recovery | =    | 101.400% |

| Target Compounds              |       |     |       |       |        | Qvalue |
|-------------------------------|-------|-----|-------|-------|--------|--------|
| 2) Dichlorodifluoromethane    | 2.719 | 85  | 93039 | 0.507 | ppbv   | 93     |
| 3) Chlorodifluoromethane      | 2.665 | 51  | 58862 | 0.501 | ppbv   | 100    |
| 4) Chloromethane              | 2.803 | 50  | 38530 | 0.531 | ppbv   | 91     |
| 5) Vinyl Chloride             | 2.909 | 62  | 30193 | 0.514 | ppbv   | 90     |
| 6) Bromomethane               | 3.115 | 94  | 8466  | 0.415 | ppbv   | 91     |
| 7) Chloroethane               | 3.189 | 64  | 11440 | 0.507 | ppbv # | 88     |
| 8) Dichlorotetrafluoroethane  | 2.845 | 85  | 82961 | 0.528 | ppbv   | 98     |
| 9) Propene                    | 2.684 | 41  | 23396 | 0.519 | ppbv   | 95     |
| 10) Heptane                   | 7.581 | 43  | 42372 | 0.391 | ppbv   | 93     |
| 11) Trichlorofluoromethane    | 3.555 | 101 | 82186 | 0.494 | ppbv   | 94     |
| 12) 1,1,2-Trichlorotrifluo... | 4.060 | 101 | 58428 | 0.468 | ppbv   | 94     |
| 13) Ethanol                   | 3.234 | 45  | 328   | 0.099 | ppbv # | 37     |
| 14) Bromoethene               | 3.359 | 108 | 21480 | 0.461 | ppbv # | 91     |
| 15) Acetone                   | 3.475 | 43  | 77508 | 0.681 | ppbv   | 92     |
| 16) 1,3-Butadiene             | 2.976 | 39  | 23268 | 0.450 | ppbv   | 91     |
| 17) tert-Butyl alcohol        | 3.886 | 59  | 50530 | 0.467 | ppbv   | 96     |
| 18) 1,1-Dichloroethene        | 3.877 | 96  | 26118 | 0.488 | ppbv   | 97     |
| 19) Isopropyl Alcohol         | 3.584 | 45  | 26519 | 0.486 | ppbv # | 90     |
| 20) Methylene Chloride        | 3.928 | 84  | 26433 | 0.552 | ppbv   | 86     |
| 21) Allyl Chloride            | 3.996 | 41  | 31079 | 0.421 | ppbv   | 87     |
| 22) trans-1,2-Dichloroethene  | 4.439 | 96  | 22697 | 0.416 | ppbv   | 94     |
| 23) Vinyl Acetate             | 4.626 | 43  | 16510 | 0.521 | ppbv # | 94     |
| 24) 1,1-Dichloroethane        | 4.562 | 63  | 54224 | 0.480 | ppbv   | 99     |
| 25) Ethyl Acetate             | 5.208 | 43  | 93570 | 0.439 | ppbv   | 97     |
| 26) Hexane                    | 5.214 | 57  | 20707 | 0.237 | ppbv # | 1      |
| 27) Carbon Disulfide          | 4.124 | 76  | 46455 | 0.380 | ppbv # | 88     |
| 28) Methyl tert-Butyl Ether   | 4.594 | 73  | 42203 | 0.420 | ppbv   | 100    |
| 29) Chloroform                | 5.269 | 83  | 79448 | 0.514 | ppbv   | 90     |
| 30) Cyclohexane               | 6.603 | 84  | 6651  | 0.096 | ppbv # | 1      |
| 31) cis-1,2-Dichloroethene    | 5.076 | 61  | 34227 | 0.402 | ppbv # | 83     |
| 32) 1,1,1-Trichloroethane     | 6.002 | 97  | 73550 | 0.497 | ppbv   | 99     |
| 34) 2-Butanone                | 4.793 | 43  | 25383 | 0.210 | ppbv # | 37     |
| 35) Carbon Tetrachloride      | 6.494 | 117 | 41058 | 0.268 | ppbv   | 94     |
| 36) Benzene                   | 6.372 | 78  | 78050 | 0.419 | ppbv # | 95     |
| 37) 1,2-Dichloroethane        | 5.809 | 62  | 56492 | 0.466 | ppbv   | 98     |
| 38) Trichloroethene           | 7.295 | 130 | 44979 | 0.442 | ppbv   | 96     |
| 39) 1,2-Dichloropropane       | 7.079 | 63  | 32535 | 0.445 | ppbv # | 88     |
| 40) 1,4-Dioxane               | 7.324 | 88  | 6416  | 0.222 | ppbv # | 1      |
| 41) Tetrahydrofuran           | 5.584 | 42  | 19889 | 0.286 | ppbv # | 83     |
| 42) Bromodichloromethane      | 7.253 | 83  | 72990 | 0.441 | ppbv # | 93     |
| 43) Methyl Methacrylate       | 7.475 | 69  | 7109  | 0.103 | ppbv # | 1      |
| 44) 2,2,4-Trimethylpentane    | 7.330 | 57  | 72540 | 0.234 | ppbv # | 43     |
| 46) cis-1,3-Dichloropropene   | 8.150 | 75  | 20825 | 0.243 | ppbv # | 89     |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL041223\  
 Data File : VL040348.D  
 Acq On : 12 Apr 2023 22:43  
 Operator : SY/MD  
 Sample : 02213-15 0.45 MDL  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 MDL-AIR-03-QT2-2023

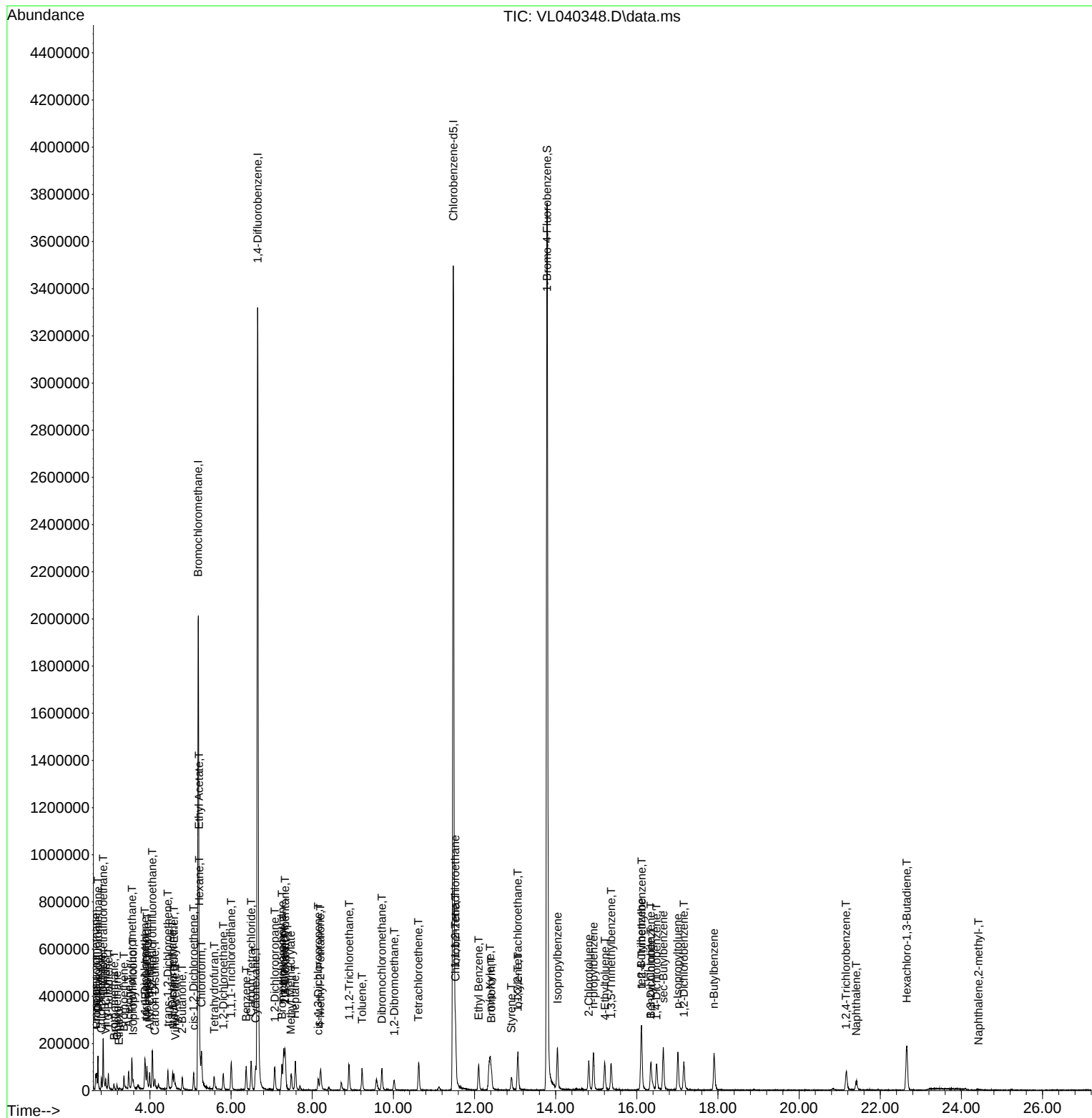
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 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL031523AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 26 06:05:16 2022  
 QLast Update : Tue Apr 11 04:15:53 2023  
 Response via : Initial Calibration

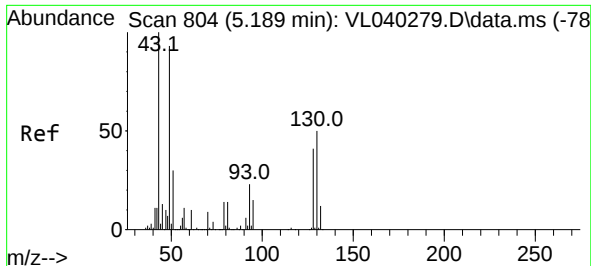
| Compound                      | R.T.   | QIon | Response | Conc  | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|-------|--------|----------|
| 47) 1,1,2-Trichloroethane     | 8.909  | 97   | 22031    | 0.283 | ppbv   | 91       |
| 48) Dibromochloromethane      | 9.719  | 129  | 48278    | 0.376 | ppbv   | 90       |
| 49) Bromoform                 | 12.413 | 173  | 16010    | 0.166 | ppbv # | 19       |
| 50) 4-Methyl-2-Pentanone      | 8.198  | 43   | 26437    | 0.142 | ppbv # | 38       |
| 52) Tetrachloroethene         | 10.616 | 164  | 10251    | 0.182 | ppbv   | 93       |
| 53) Toluene                   | 9.227  | 91   | 35477    | 0.182 | ppbv # | 36       |
| 54) 1,2-Dibromoethane         | 10.018 | 107  | 16950    | 0.211 | ppbv   | 85       |
| 56) 1,1,1,2-Tetrachloroethane | 11.526 | 131  | 18667    | 0.204 | ppbv # | 9        |
| 57) Chlorobenzene             | 11.536 | 112  | 73445    | 0.475 | ppbv   | 97       |
| 58) Ethyl Benzene             | 12.102 | 91   | 88988    | 0.360 | ppbv   | 96       |
| 59) m/p-Xylene                | 12.384 | 91   | 25470    | 0.112 | ppbv # | 1        |
| 60) o-Xylene                  | 13.073 | 91   | 82664    | 0.382 | ppbv   | 97       |
| 61) Styrene                   | 12.905 | 104  | 13783    | 0.125 | ppbv # | 27       |
| 62) Isopropylbenzene          | 14.044 | 105  | 128307   | 0.416 | ppbv   | 99       |
| 63) 1,1,2,2-Tetrachloroethane | 13.063 | 83   | 37116    | 0.487 | ppbv   | 97       |
| 64) n-propylbenzene           | 14.931 | 120  | 16767    | 0.222 | ppbv # | 1        |
| 65) tert-Butylbenzene         | 16.105 | 119  | 63522    | 0.239 | ppbv # | 33       |
| 66) Benzyl Chloride           | 16.342 | 91   | 1977     | 0.114 | ppbv # | 74       |
| 67) sec-Butylbenzene          | 16.654 | 105  | 152553   | 0.401 | ppbv   | 97       |
| 69) p-Isopropyltoluene        | 17.008 | 119  | 109537   | 0.370 | ppbv   | 95       |
| 70) n-Butylbenzene            | 17.902 | 91   | 122030   | 0.374 | ppbv   | 96       |
| 71) 2-Chlorotoluene           | 14.815 | 91   | 87665    | 0.373 | ppbv   | 100      |
| 72) 4-Ethyltoluene            | 15.214 | 105  | 86235    | 0.364 | ppbv # | 94       |
| 73) 1,3,5-Trimethylbenzene    | 15.368 | 105  | 80117    | 0.373 | ppbv   | 96       |
| 74) 1,2,4-Trimethylbenzene    | 16.121 | 105  | 100451   | 0.411 | ppbv   | 93       |
| 75) 1,3-Dichlorobenzene       | 16.346 | 146  | 31292    | 0.236 | ppbv # | 23       |
| 76) 1,4-Dichlorobenzene       | 16.484 | 146  | 27428    | 0.217 | ppbv # | 23       |
| 77) 1,2-Dichlorobenzene       | 17.159 | 146  | 34070    | 0.267 | ppbv # | 39       |
| 78) Hexachloro-1,3-Butadiene  | 22.651 | 225  | 14662    | 0.157 | ppbv # | 1        |
| 79) Naphthalene               | 21.410 | 128  | 31402    | 0.217 | ppbv # | 89       |
| 80) Naphthalene,2-methyl-     | 24.423 | 142  | 3958     | 0.108 | ppbv # | 70       |
| 81) 1,2,4-Trichlorobenzene    | 21.156 | 180  | 16815    | 0.189 | ppbv # | 23       |

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

**Instrument :**  
MSVOA\_L  
**ClientSampleId :**  
MDL-AIR-03-QT2-2023

Quant Time: Apr 13 05:42:16 2023  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL031523AIR.M  
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_LFri Aug 26 06:05:16 2022  
QLast Update : Tue Apr 11 04:15:53 2023  
Response via : Initial Calibration

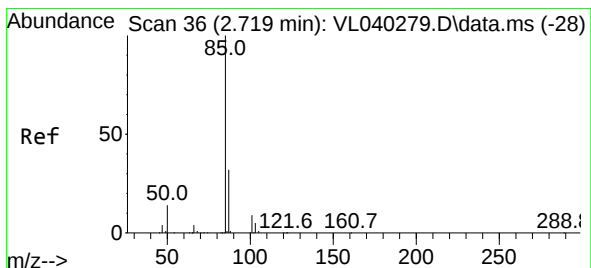
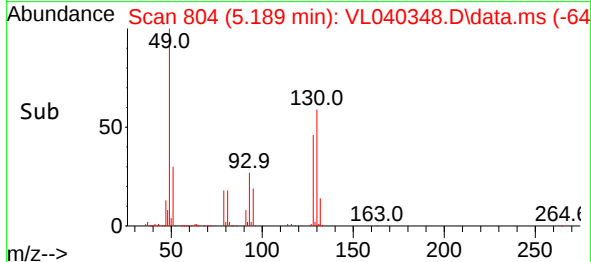
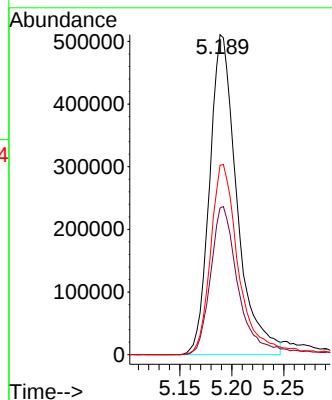
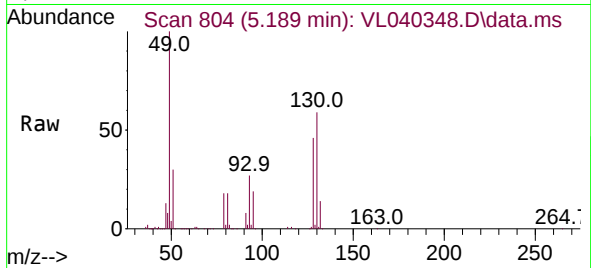




#1  
 Bromochloromethane  
 Concen: 10.000 ppbv  
 RT: 5.189 min Scan# 804  
 Delta R.T. -0.000 min  
 Lab File: VL040348.D  
 Acq: 12 Apr 2023 22:43

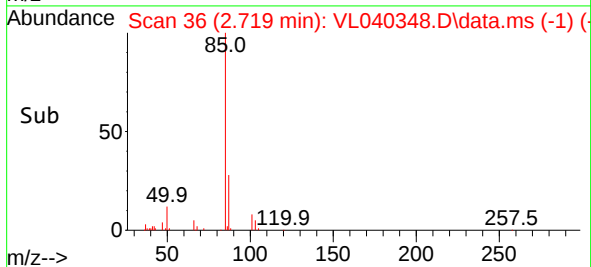
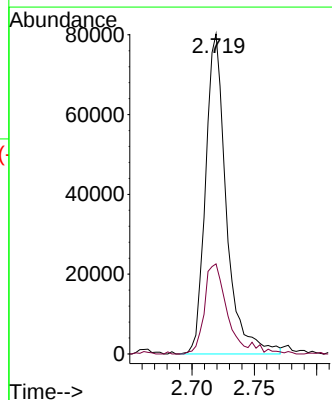
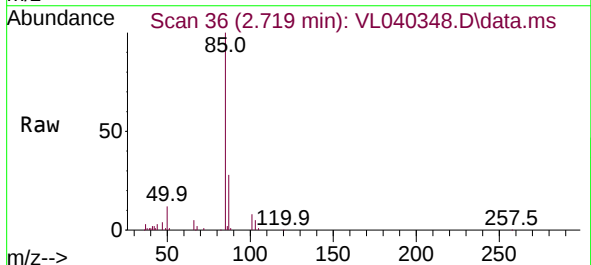
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 MDL-AIR-03-QT2-2023

Tgt Ion: 49 Resp: 935047  
 Ion Ratio Lower Upper  
 49 100  
 128 48.5 22.4 67.3  
 130 63.3 28.7 86.1



#2  
 Dichlorodifluoromethane  
 Concen: 0.507 ppbv  
 RT: 2.719 min Scan# 36  
 Delta R.T. 0.000 min  
 Lab File: VL040348.D  
 Acq: 12 Apr 2023 22:43

Tgt Ion: 85 Resp: 93039  
 Ion Ratio Lower Upper  
 85 100  
 87 28.1 25.5 38.3

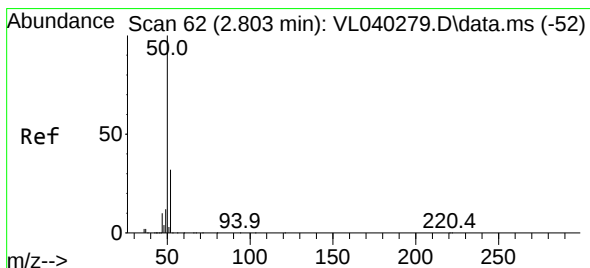
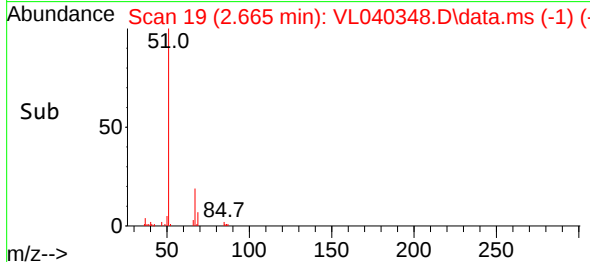
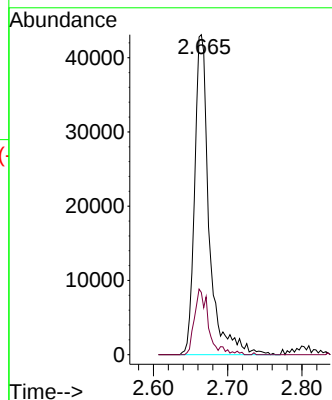
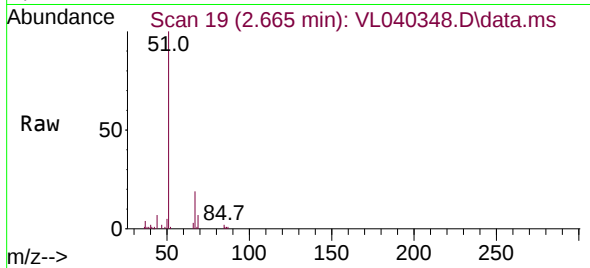




#3  
Chlorodifluoromethane  
Concen: 0.501 ppbv  
RT: 2.665 min Scan# 19  
Delta R.T. -0.000 min  
Lab File: VL040348.D  
Acq: 12 Apr 2023 22:43

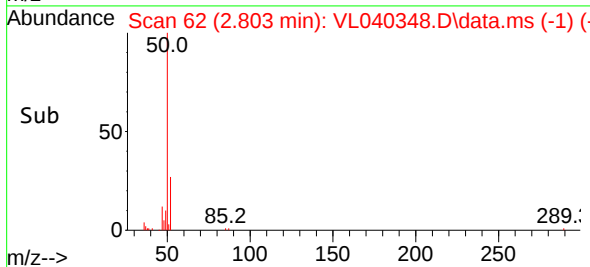
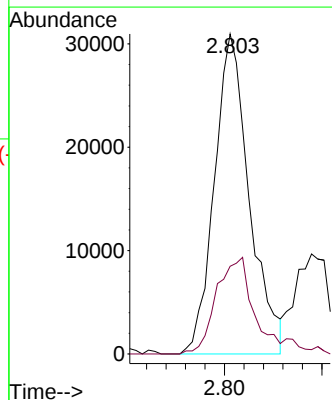
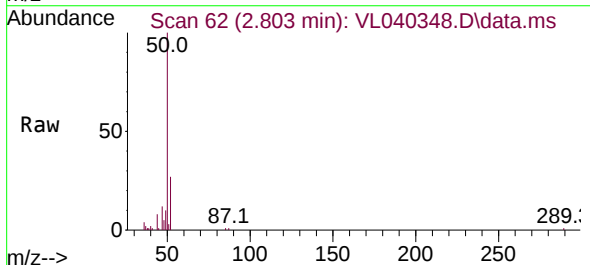
Instrument :  
MSVOA\_L  
ClientSampleId :  
MDL-AIR-03-QT2-2023

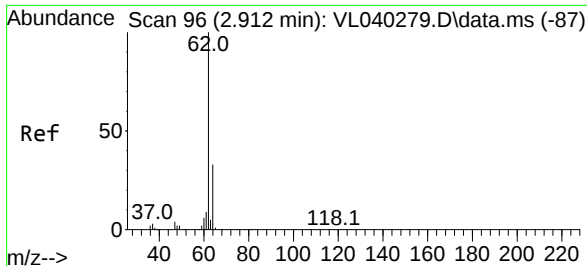
Tgt Ion: 51 Resp: 58862  
Ion Ratio Lower Upper  
51 100  
67 20.1 16.0 24.0



#4  
Chloromethane  
Concen: 0.531 ppbv  
RT: 2.803 min Scan# 62  
Delta R.T. -0.000 min  
Lab File: VL040348.D  
Acq: 12 Apr 2023 22:43

Tgt Ion: 50 Resp: 38530  
Ion Ratio Lower Upper  
50 100  
52 27.4 25.9 38.9

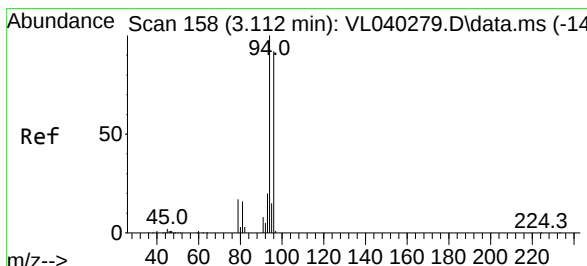
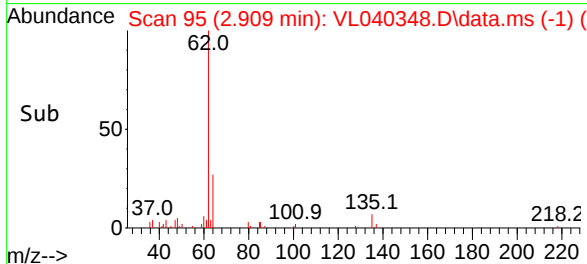
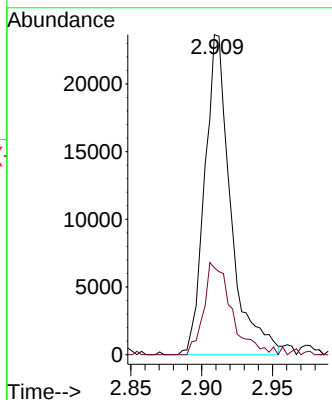
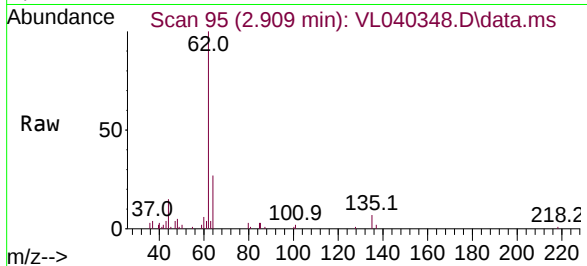




#5  
 Vinyl Chloride  
 Concen: 0.514 ppbv  
 RT: 2.909 min Scan# 91  
 Delta R.T. -0.003 min  
 Lab File: VL040348.D  
 Acq: 12 Apr 2023 22:43

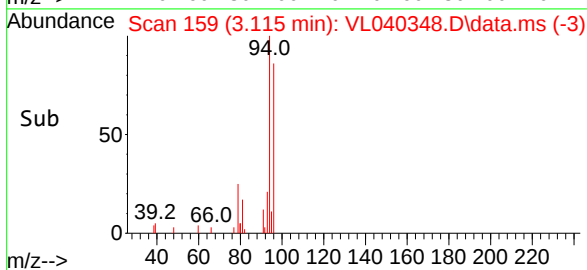
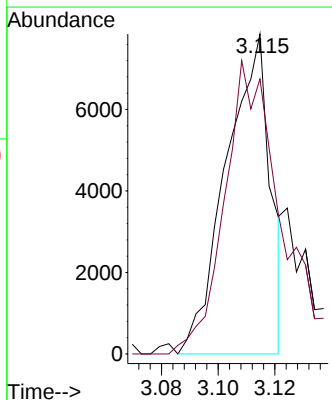
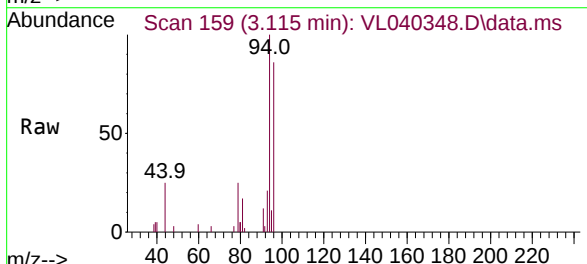
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 MDL-AIR-03-QT2-2023

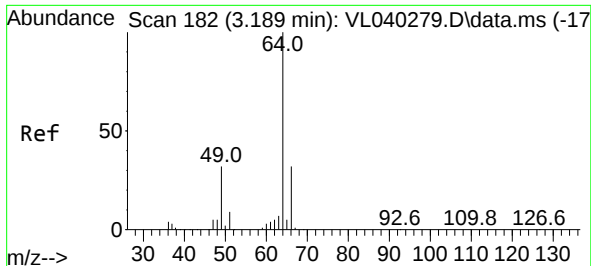
Tgt Ion: 62 Resp: 30193  
 Ion Ratio Lower Upper  
 62 100  
 64 27.2 26.4 39.6



#6  
 Bromomethane  
 Concen: 0.415 ppbv  
 RT: 3.115 min Scan# 159  
 Delta R.T. 0.003 min  
 Lab File: VL040348.D  
 Acq: 12 Apr 2023 22:43

Tgt Ion: 94 Resp: 8466  
 Ion Ratio Lower Upper  
 94 100  
 96 83.3 73.7 110.5

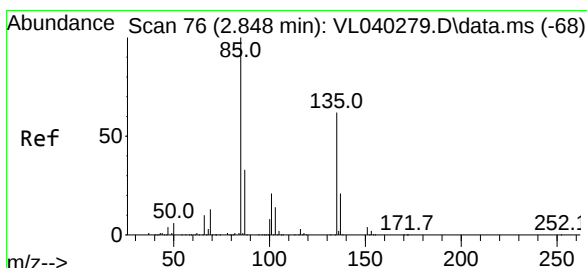
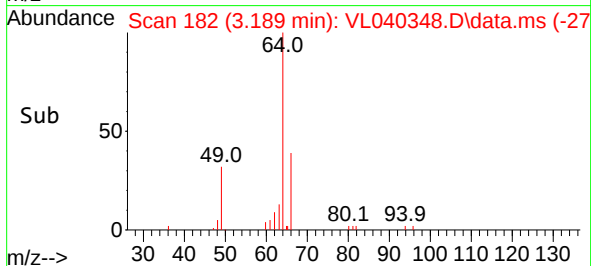
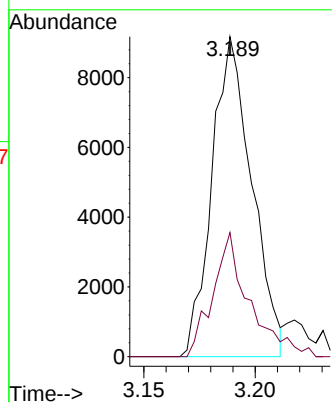
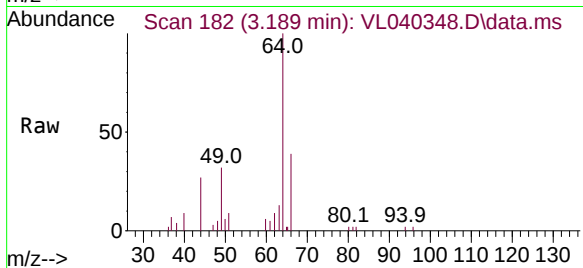




#7  
Chloroethane  
Concen: 0.507 ppbv  
RT: 3.189 min Scan# 11  
Delta R.T. -0.000 min  
Lab File: VL040348.D  
Acq: 12 Apr 2023 22:43

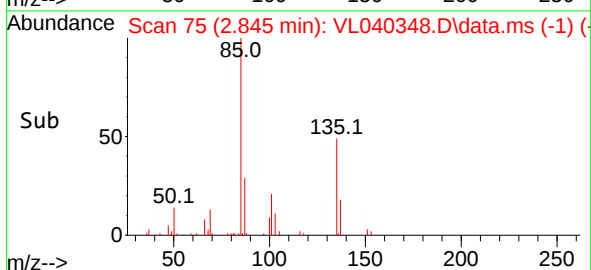
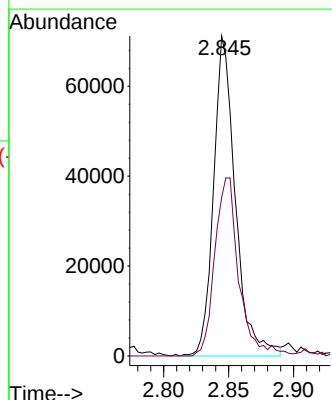
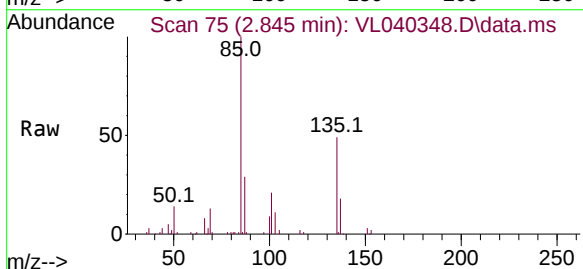
Instrument :  
MSVOA\_L  
ClientSampleId :  
MDL-AIR-03-QT2-2023

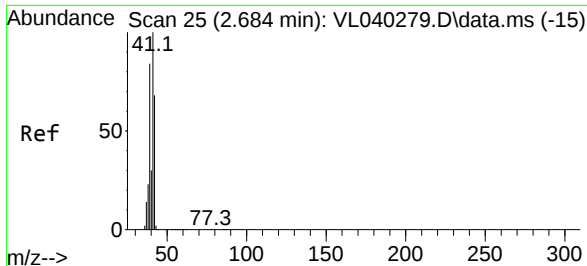
Tgt Ion: 64 Resp: 11440  
Ion Ratio Lower Upper  
64 100  
66 38.8 25.5 38.3#



#8  
Dichlorotetrafluoroethane  
Concen: 0.528 ppbv  
RT: 2.845 min Scan# 75  
Delta R.T. -0.003 min  
Lab File: VL040348.D  
Acq: 12 Apr 2023 22:43

Tgt Ion: 85 Resp: 82961  
Ion Ratio Lower Upper  
85 100  
135 63.3 52.0 78.0





#9

Propene

Concen: 0.519 ppbv

RT: 2.684 min Scan# 21

Delta R.T. -0.000 min

Lab File: VL040348.D

Acq: 12 Apr 2023 22:43

Instrument :

MSVOA\_L

ClientSampleId :

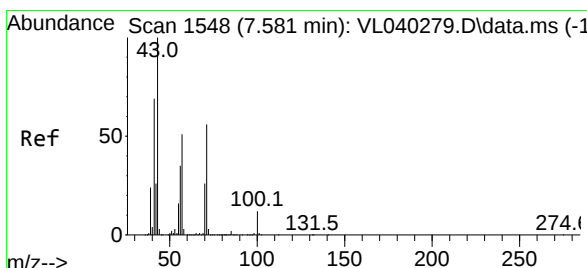
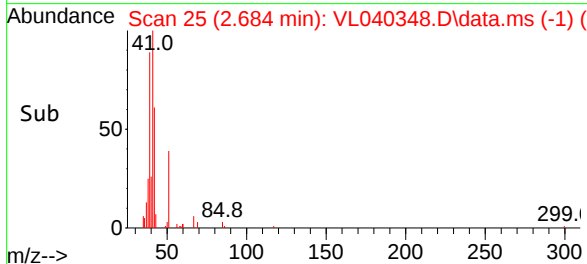
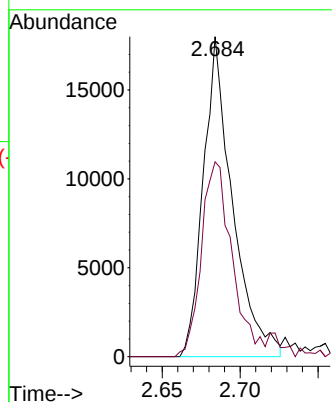
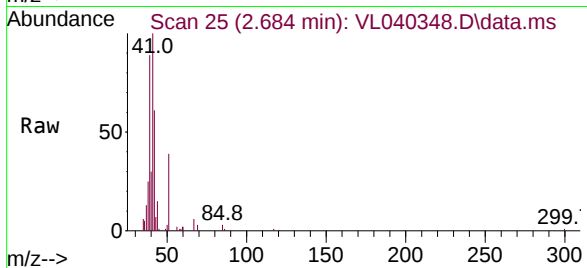
MDL-AIR-03-QT2-2023

Tgt Ion: 41 Resp: 23396

Ion Ratio Lower Upper

41 100

42 69.3 59.0 88.4



#10

Heptane

Concen: 0.391 ppbv

RT: 7.581 min Scan# 1548

Delta R.T. -0.000 min

Lab File: VL040348.D

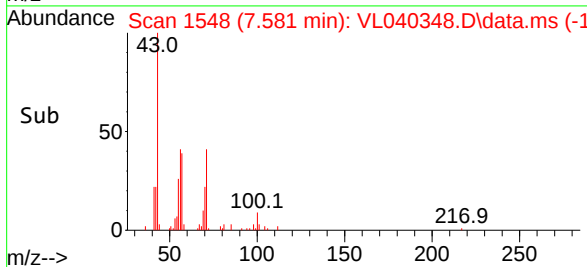
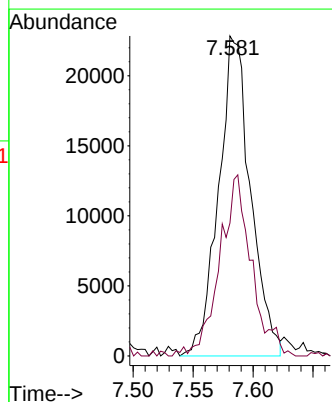
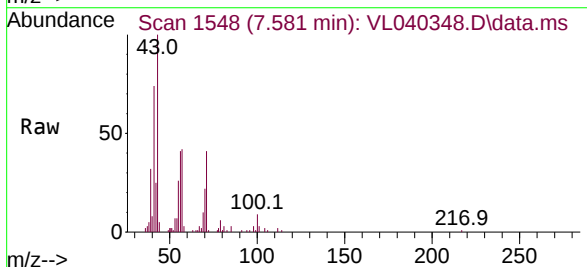
Acq: 12 Apr 2023 22:43

Tgt Ion: 43 Resp: 42372

Ion Ratio Lower Upper

43 100

57 57.1 41.7 62.5

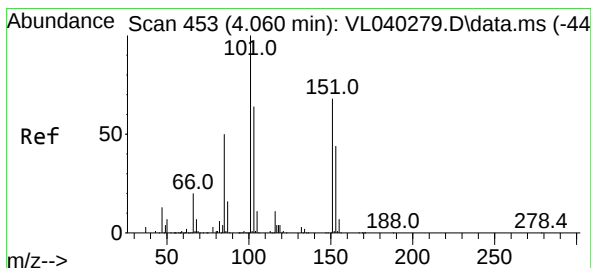
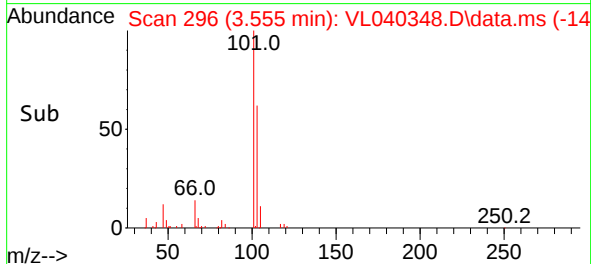
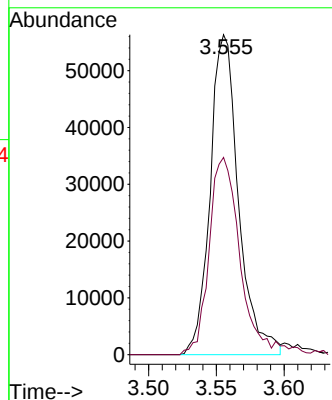
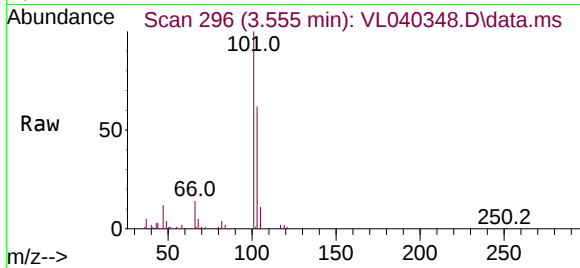




#11  
 Trichlorofluoromethane  
 Concen: 0.494 ppbv  
 RT: 3.555 min Scan# 296  
 Delta R.T. 0.000 min  
 Lab File: VL040348.D  
 Acq: 12 Apr 2023 22:43

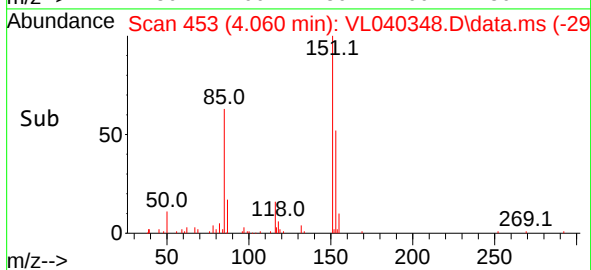
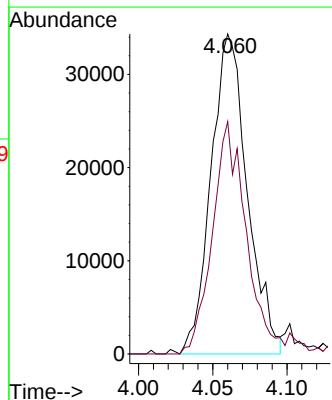
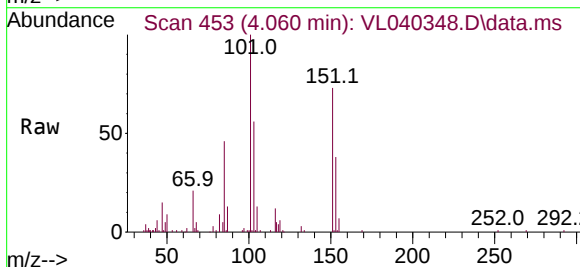
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 MDL-AIR-03-QT2-2023

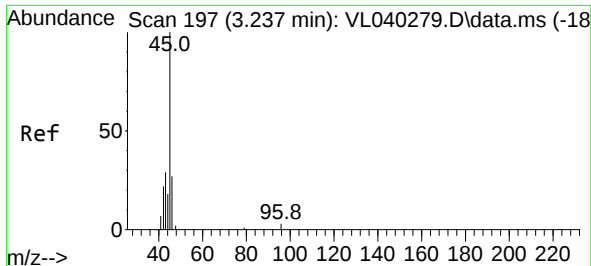
Tgt Ion:101 Resp: 82186  
 Ion Ratio Lower Upper  
 101 100  
 103 61.6 53.1 79.7



#12  
 1,1,2-Trichlorotrifluoroethane  
 Concen: 0.468 ppbv  
 RT: 4.060 min Scan# 453  
 Delta R.T. 0.000 min  
 Lab File: VL040348.D  
 Acq: 12 Apr 2023 22:43

Tgt Ion:101 Resp: 58428  
 Ion Ratio Lower Upper  
 101 100  
 151 71.0 53.2 79.8

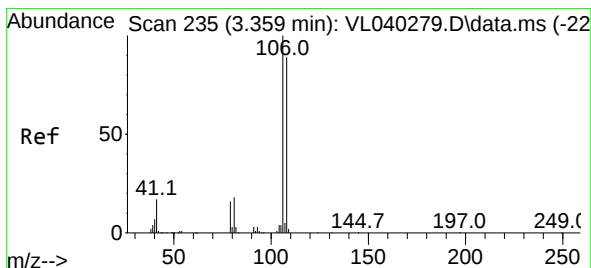
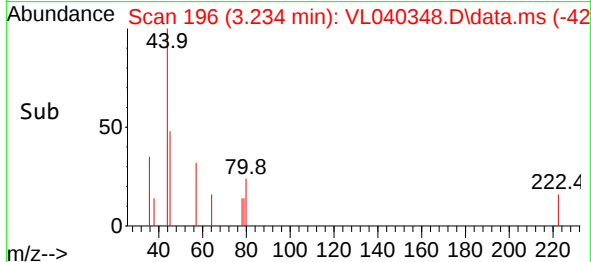
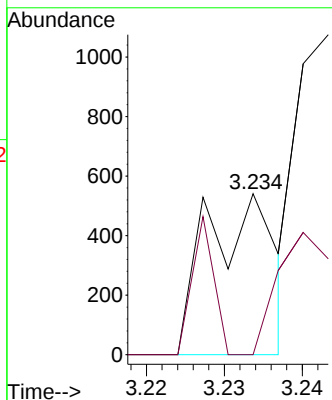
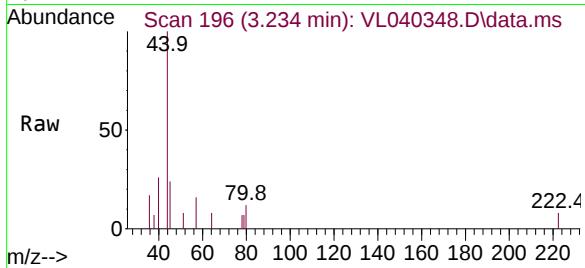




#13  
Ethanol  
Concen: 0.099 ppbv  
RT: 3.234 min Scan# 197  
Delta R.T. -0.003 min  
Lab File: VL040348.D  
Acq: 12 Apr 2023 22:43

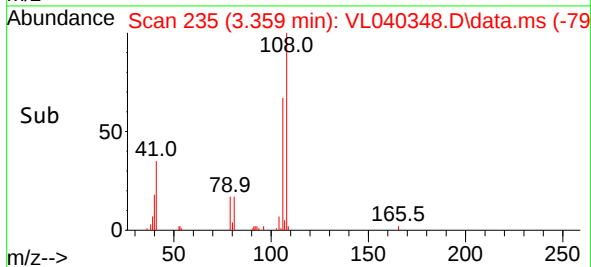
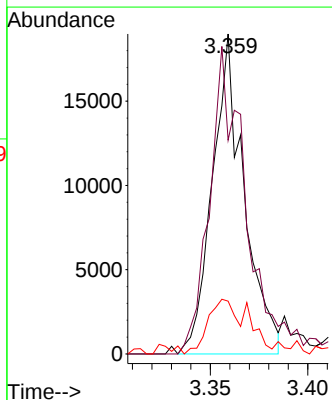
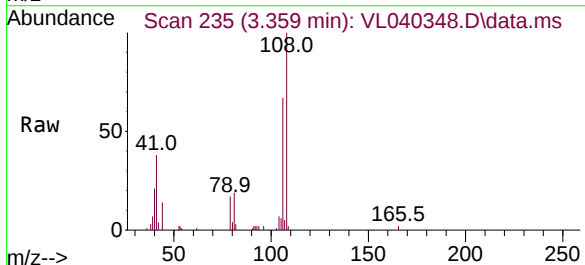
Instrument :  
MSVOA\_L  
ClientSampleId :  
MDL-AIR-03-QT2-2023

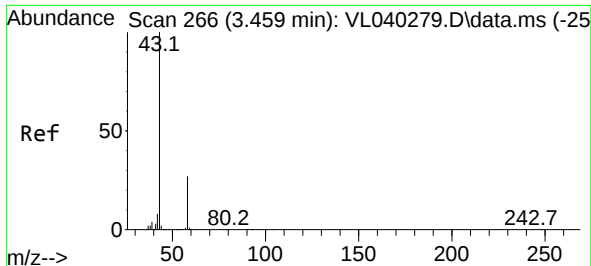
Tgt Ion: 45 Resp: 328  
Ion Ratio Lower Upper  
45 100  
46 0.0 15.0 60.2#



#14  
Bromoethene  
Concen: 0.461 ppbv  
RT: 3.359 min Scan# 235  
Delta R.T. 0.000 min  
Lab File: VL040348.D  
Acq: 12 Apr 2023 22:43

Tgt Ion: 108 Resp: 21480  
Ion Ratio Lower Upper  
108 100  
106 116.1 85.8 128.8  
79 25.0 15.8 23.6#





#15

Acetone

Concen: 0.681 ppbv

RT: 3.475 min Scan# 21

Delta R.T. 0.016 min

Lab File: VL040348.D

Acq: 12 Apr 2023 22:43

Instrument :

MSVOA\_L

ClientSampleId :

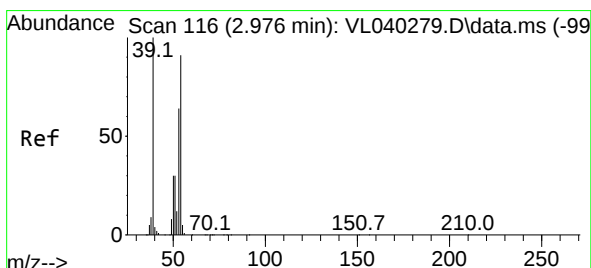
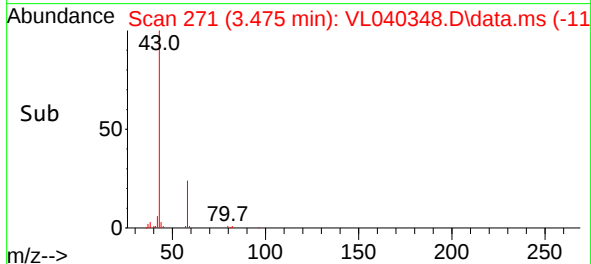
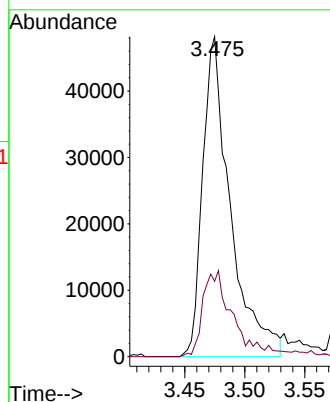
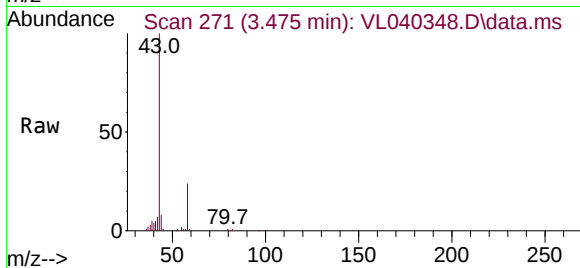
MDL-AIR-03-QT2-2023

Tgt Ion: 43 Resp: 77508

Ion Ratio Lower Upper

43 100

58 31.3 21.8 32.8



#16

1,3-Butadiene

Concen: 0.450 ppbv

RT: 2.976 min Scan# 116

Delta R.T. 0.000 min

Lab File: VL040348.D

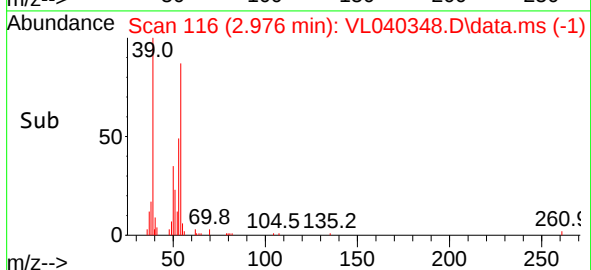
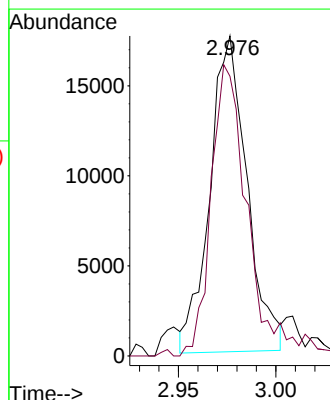
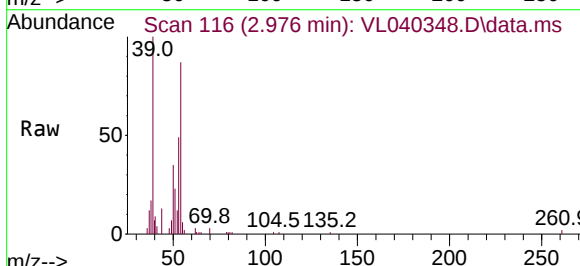
Acq: 12 Apr 2023 22:43

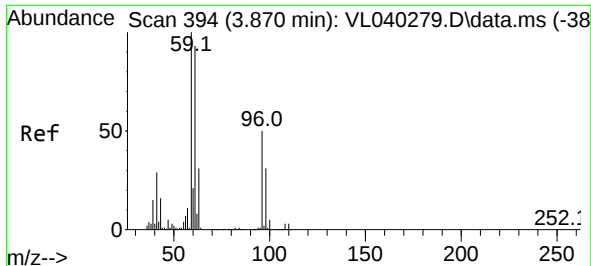
Tgt Ion: 39 Resp: 23268

Ion Ratio Lower Upper

39 100

54 93.8 68.4 102.6

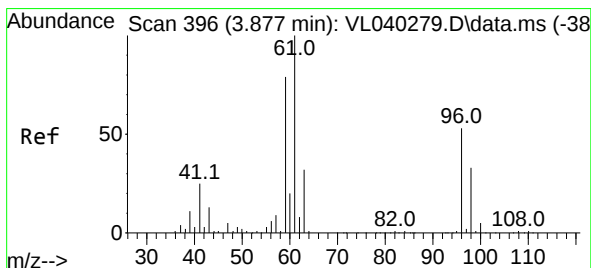
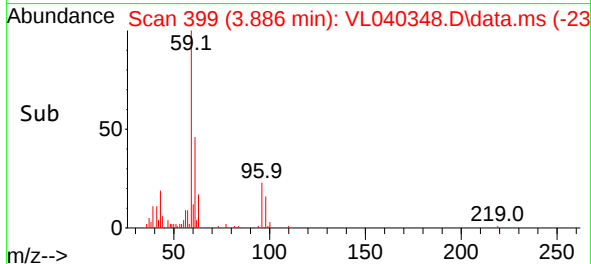
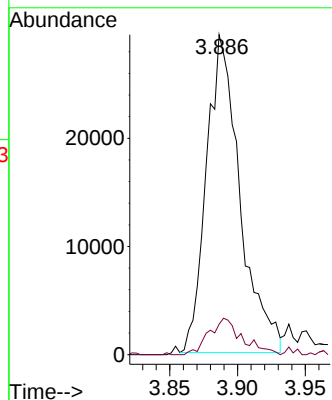
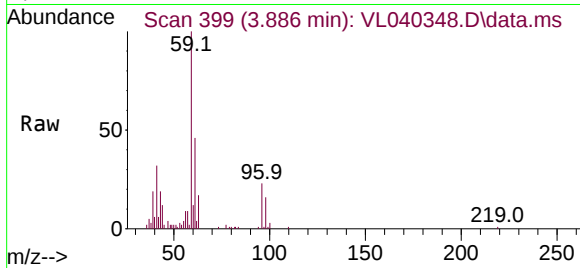




#17  
tert-Butyl alcohol  
Concen: 0.467 ppbv  
RT: 3.886 min Scan# 399  
Delta R.T. 0.016 min  
Lab File: VL040348.D  
Acq: 12 Apr 2023 22:43

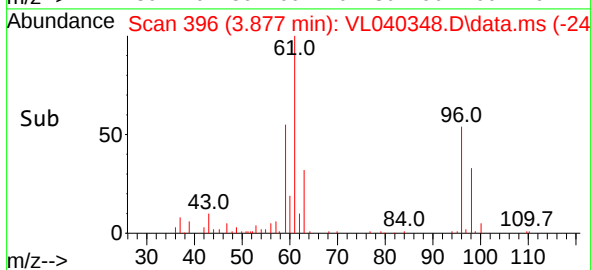
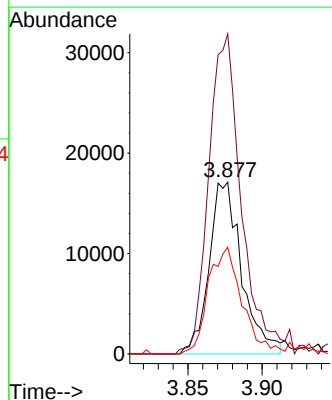
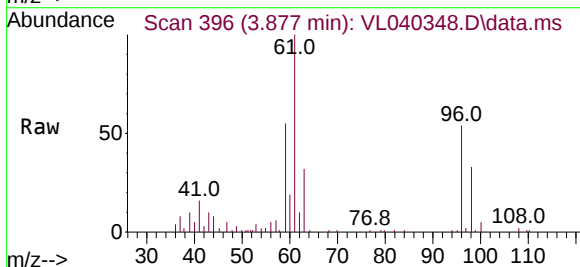
Instrument :  
MSVOA\_L  
ClientSampleId :  
MDL-AIR-03-QT2-2023

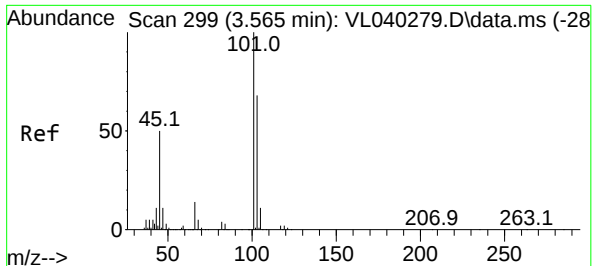
Tgt Ion: 59 Resp: 50530  
Ion Ratio Lower Upper  
59 100  
57 11.9 8.5 12.7



#18  
1,1-Dichloroethene  
Concen: 0.488 ppbv  
RT: 3.877 min Scan# 396  
Delta R.T. -0.000 min  
Lab File: VL040348.D  
Acq: 12 Apr 2023 22:43

Tgt Ion: 96 Resp: 26118  
Ion Ratio Lower Upper  
96 100  
61 183.5 150.6 226.0  
98 62.1 50.3 75.5





#19

Isopropyl Alcohol

Concen: 0.486 ppbv

RT: 3.584 min Scan# 305

Delta R.T. 0.019 min

Lab File: VL040348.D

Acq: 12 Apr 2023 22:43

Instrument :

MSVOA\_L

ClientSampleId :

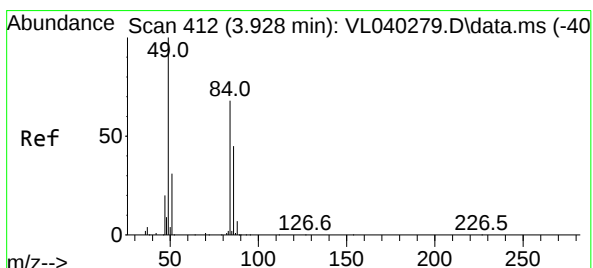
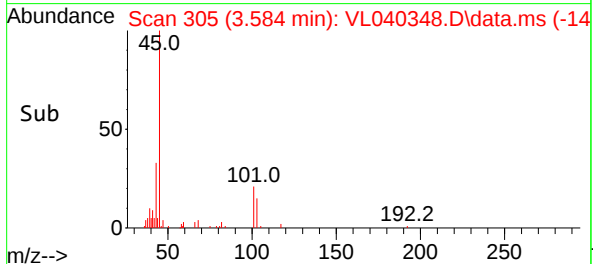
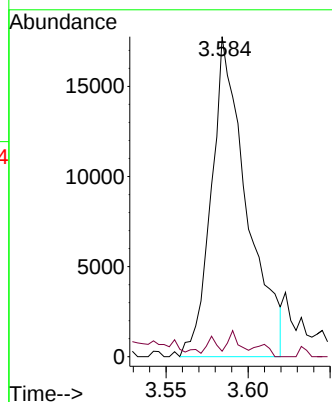
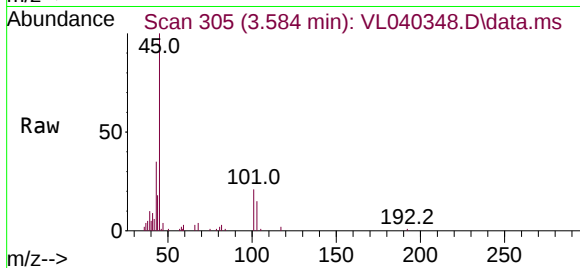
MDL-AIR-03-QT2-2023

Tgt Ion: 45 Resp: 26519

Ion Ratio Lower Upper

45 100

58 0.0 2.7 4.1#



#20

Methylene Chloride

Concen: 0.552 ppbv

RT: 3.928 min Scan# 412

Delta R.T. 0.000 min

Lab File: VL040348.D

Acq: 12 Apr 2023 22:43

Tgt Ion: 84 Resp: 26433

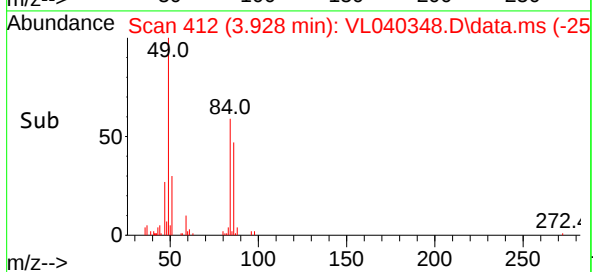
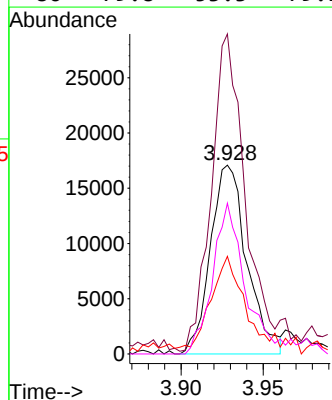
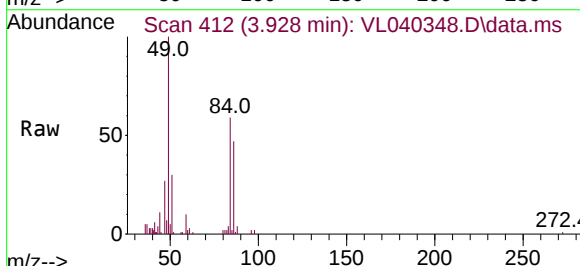
Ion Ratio Lower Upper

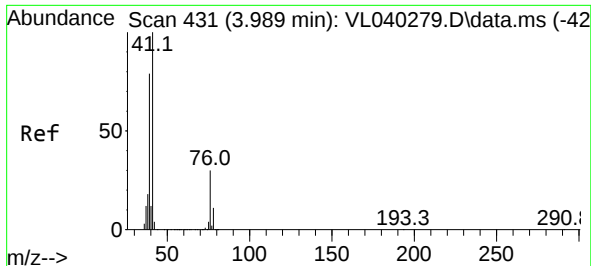
84 100

49 168.0 117.5 176.3

51 48.1 36.9 55.3

86 79.8 53.3 79.9

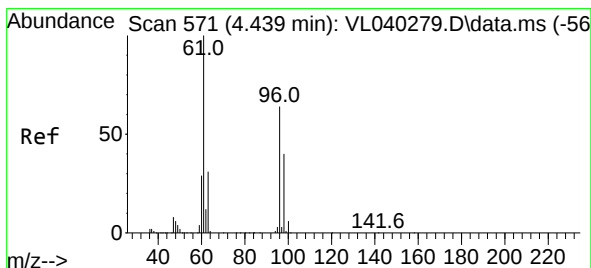
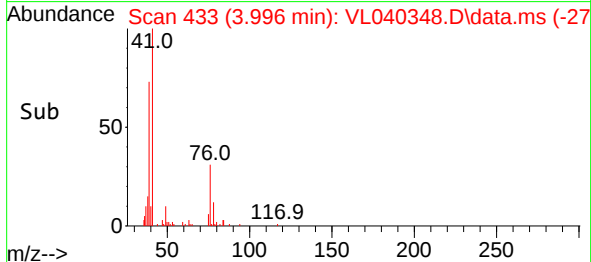
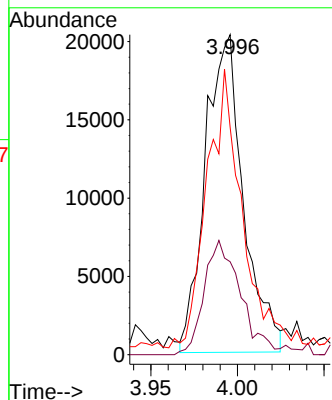
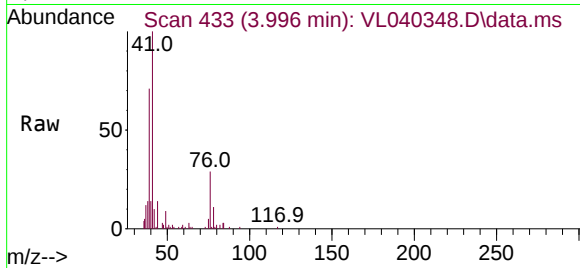




#21  
 Allyl Chloride  
 Concen: 0.421 ppbv  
 RT: 3.996 min Scan# 41  
 Delta R.T. 0.007 min  
 Lab File: VL040348.D  
 Acq: 12 Apr 2023 22:43

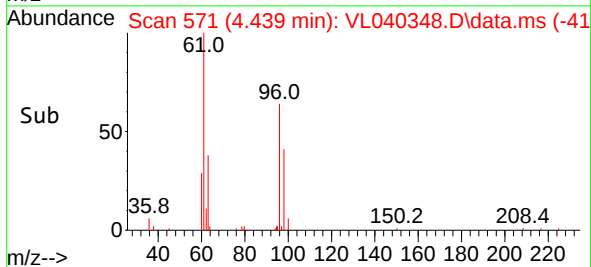
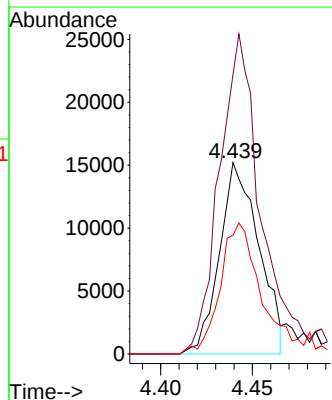
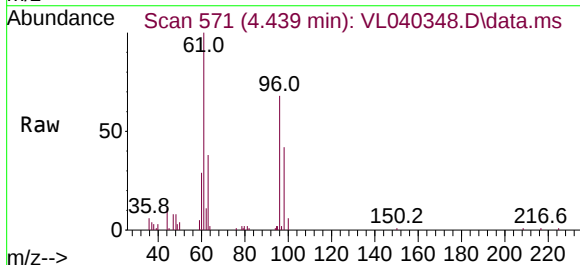
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 MDL-AIR-03-QT2-2023

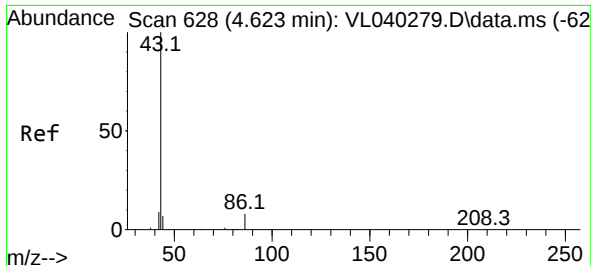
Tgt Ion: 41 Resp: 31079  
 Ion Ratio Lower Upper  
 41 100  
 76 36.2 25.4 38.0  
 39 94.8 65.4 98.2



#22  
 trans-1,2-Dichloroethene  
 Concen: 0.416 ppbv  
 RT: 4.439 min Scan# 571  
 Delta R.T. 0.000 min  
 Lab File: VL040348.D  
 Acq: 12 Apr 2023 22:43

Tgt Ion: 96 Resp: 22697  
 Ion Ratio Lower Upper  
 96 100  
 61 146.0 125.4 188.2  
 98 62.0 49.8 74.6





#23

Vinyl Acetate

Concen: 0.521 ppbv

RT: 4.626 min Scan# 61

Delta R.T. 0.003 min

Lab File: VL040348.D

Acq: 12 Apr 2023 22:43

Instrument :

MSVOA\_L

ClientSampleId :

MDL-AIR-03-QT2-2023

Tgt Ion: 43 Resp: 16510

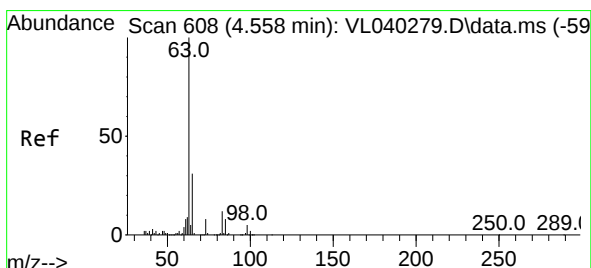
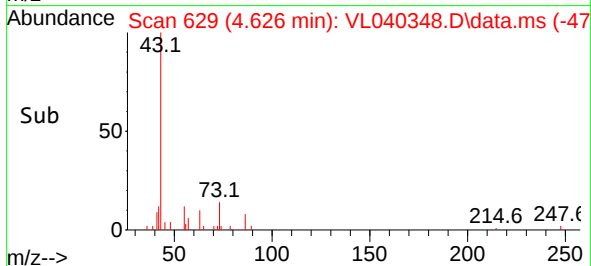
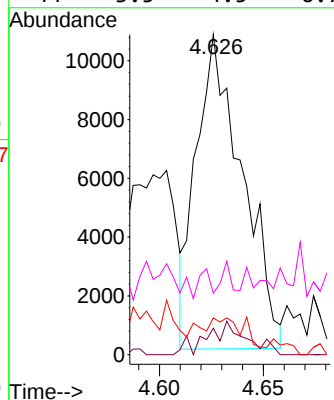
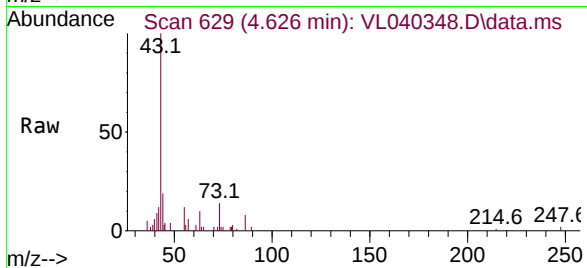
Ion Ratio Lower Upper

43 100

86 9.1 5.0 7.4#

42 9.4 9.1 13.7

44 3.5 4.5 6.7#



#24

1,1-Dichloroethane

Concen: 0.480 ppbv

RT: 4.562 min Scan# 609

Delta R.T. 0.004 min

Lab File: VL040348.D

Acq: 12 Apr 2023 22:43

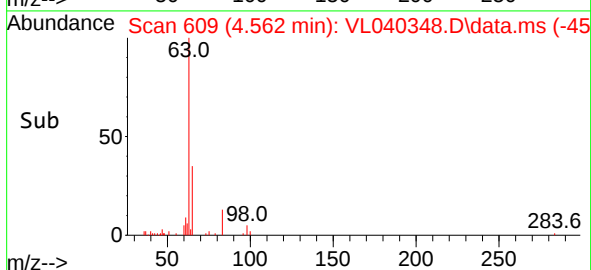
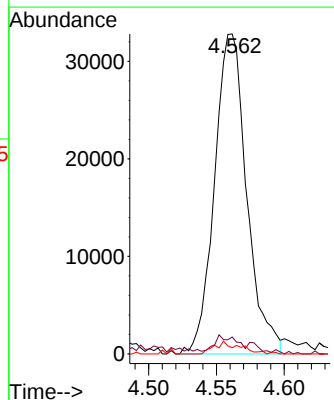
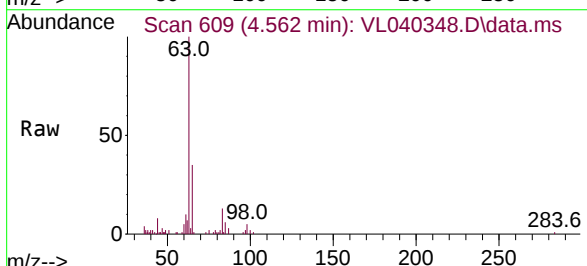
Tgt Ion: 63 Resp: 54224

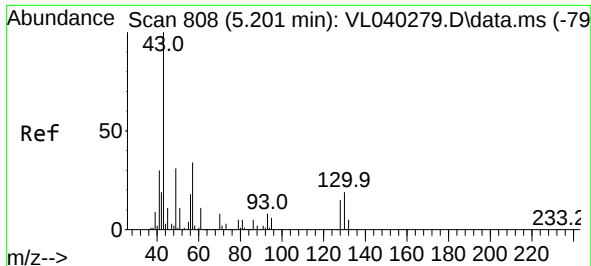
Ion Ratio Lower Upper

63 100

98 4.7 2.4 7.2

100 2.0 1.2 3.6





#25

Ethyl Acetate

Concen: 0.439 ppbv

RT: 5.208 min Scan# 810

Delta R.T. 0.007 min

Lab File: VL040348.D

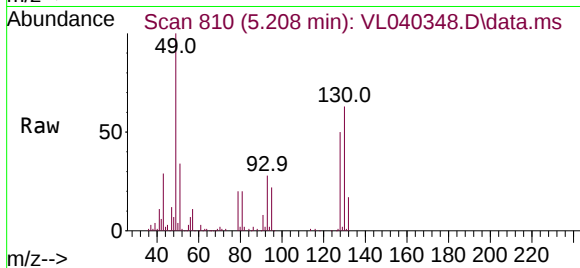
Acq: 12 Apr 2023 22:43

Instrument :

MSVOA\_L

ClientSampleId :

MDL-AIR-03-QT2-2023



Tgt Ion: 43 Resp: 93570

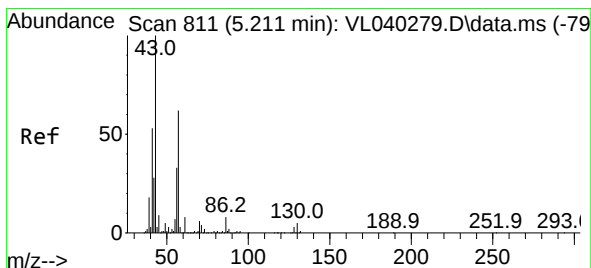
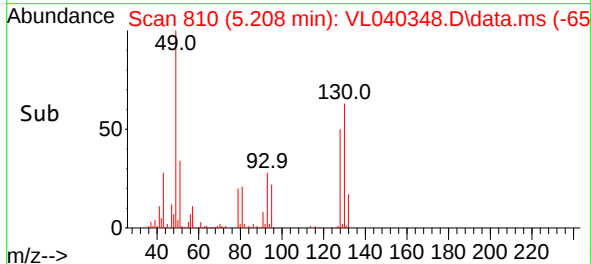
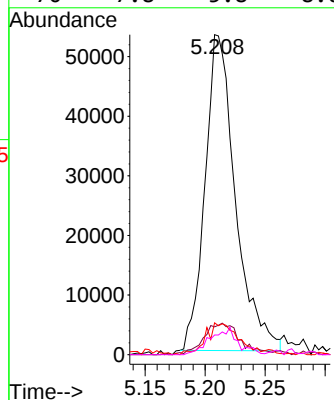
Ion Ratio Lower Upper

43 100

45 12.8 8.6 12.8

61 11.4 8.4 12.6

70 7.8 5.8 8.6



#26

Hexane

Concen: 0.237 ppbv

RT: 5.214 min Scan# 812

Delta R.T. 0.003 min

Lab File: VL040348.D

Acq: 12 Apr 2023 22:43

Tgt Ion: 57 Resp: 20707

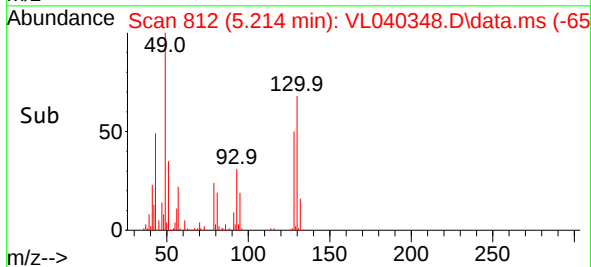
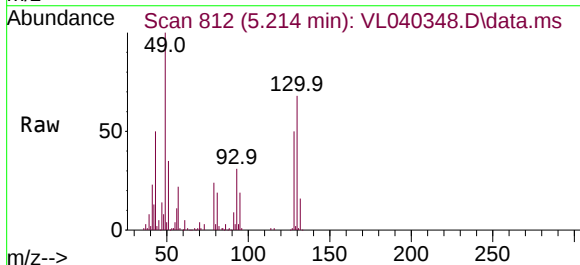
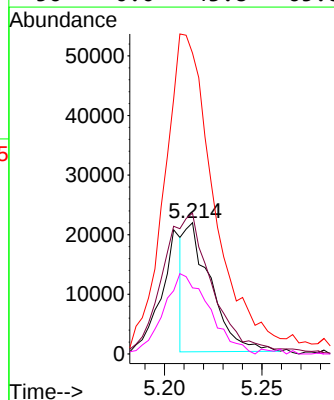
Ion Ratio Lower Upper

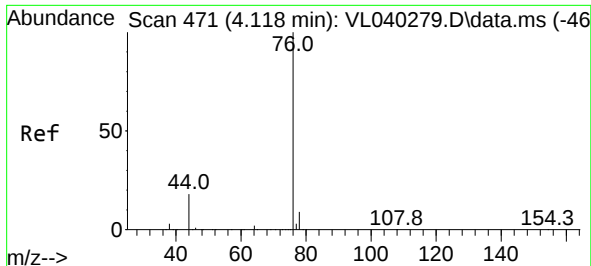
57 100

41 209.4 73.5 110.3#

43 0.0 196.3 294.5#

56 0.0 43.8 65.8#

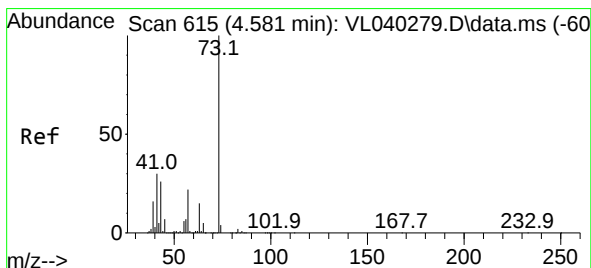
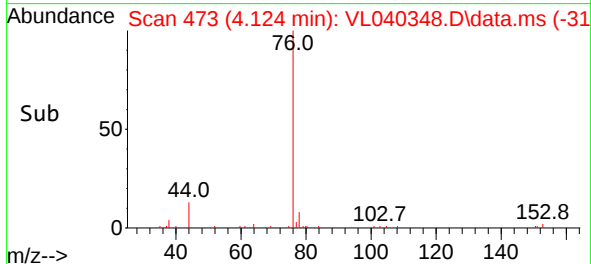
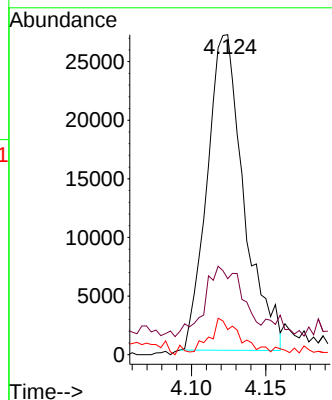
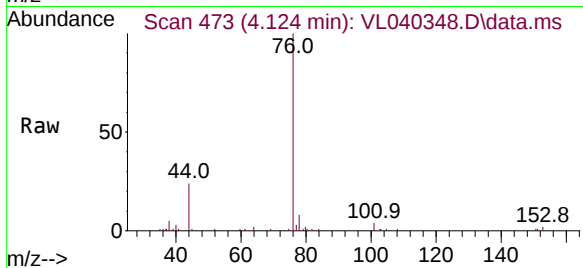




#27  
Carbon Disulfide  
Concen: 0.380 ppbv  
RT: 4.124 min Scan# 41  
Delta R.T. 0.006 min  
Lab File: VL040348.D  
Acq: 12 Apr 2023 22:43

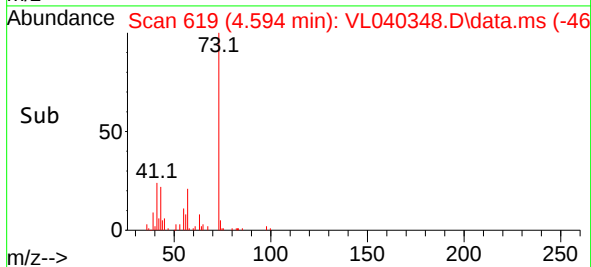
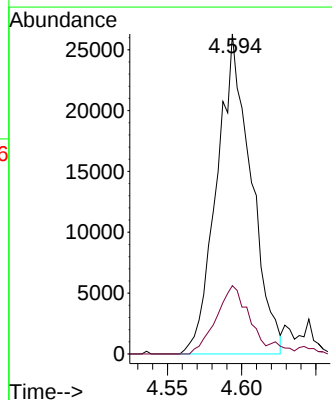
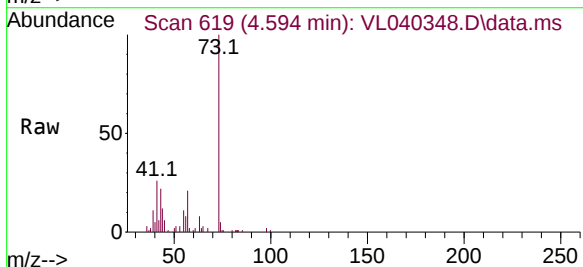
Instrument :  
MSVOA\_L  
ClientSampleId :  
MDL-AIR-03-QT2-2023

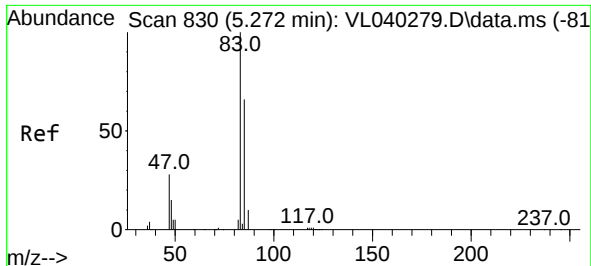
Tgt Ion: 76 Resp: 46455  
Ion Ratio Lower Upper  
76 100  
44 25.9 15.2 22.8#  
78 10.9 7.6 11.4



#28  
Methyl tert-Butyl Ether  
Concen: 0.420 ppbv  
RT: 4.594 min Scan# 619  
Delta R.T. 0.013 min  
Lab File: VL040348.D  
Acq: 12 Apr 2023 22:43

Tgt Ion: 73 Resp: 42203  
Ion Ratio Lower Upper  
73 100  
57 22.9 18.4 27.6





#29

Chloroform

Concen: 0.514 ppbv

RT: 5.269 min Scan# 81

Delta R.T. -0.003 min

Lab File: VL040348.D

Acq: 12 Apr 2023 22:43

Instrument :

MSVOA\_L

ClientSampleId :

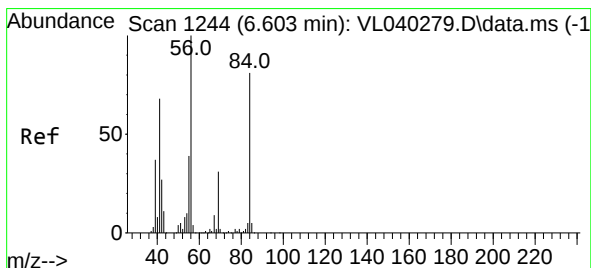
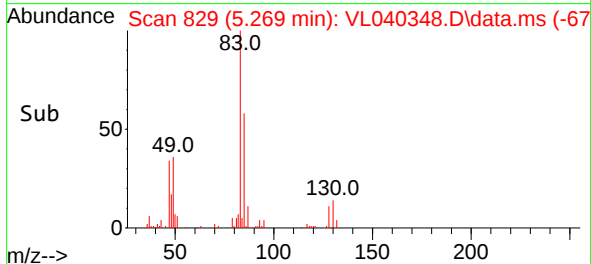
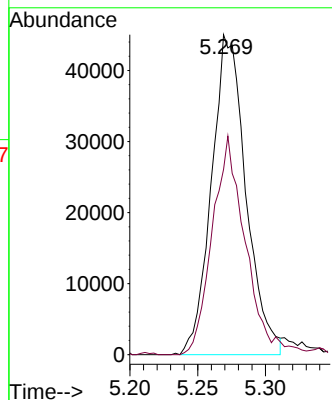
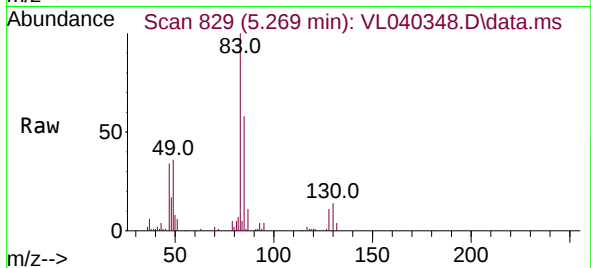
MDL-AIR-03-QT2-2023

Tgt Ion: 83 Resp: 79448

Ion Ratio Lower Upper

83 100

85 57.9 52.8 79.2



#30

Cyclohexane

Concen: 0.096 ppbv

RT: 6.603 min Scan# 1244

Delta R.T. 0.000 min

Lab File: VL040348.D

Acq: 12 Apr 2023 22:43

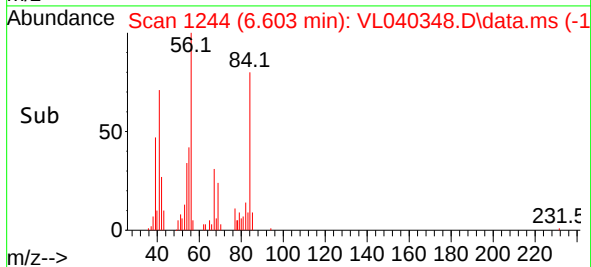
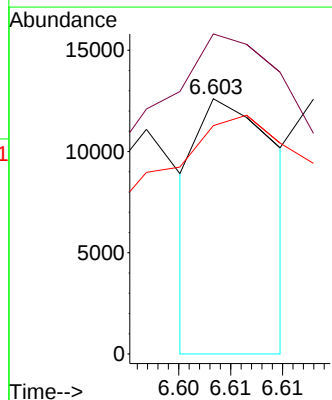
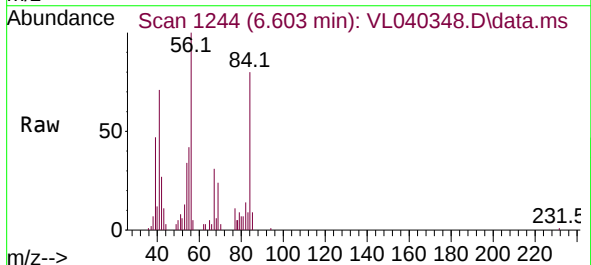
Tgt Ion: 84 Resp: 6651

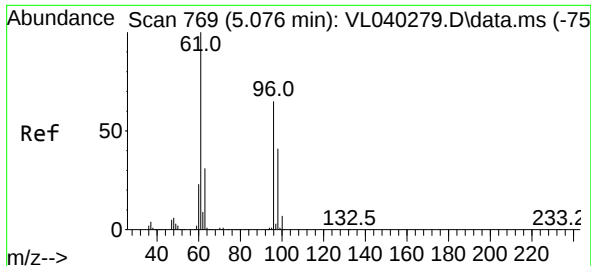
Ion Ratio Lower Upper

84 100

56 488.6 109.0 163.4#

41 389.1 67.9 101.9#

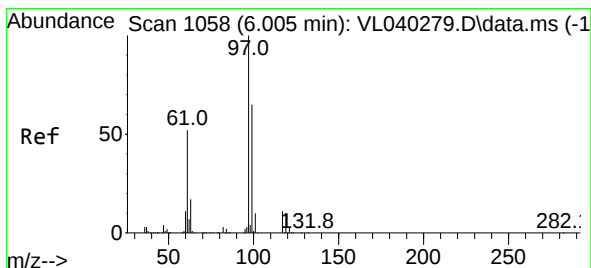
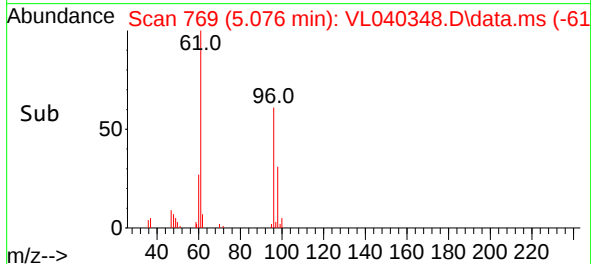
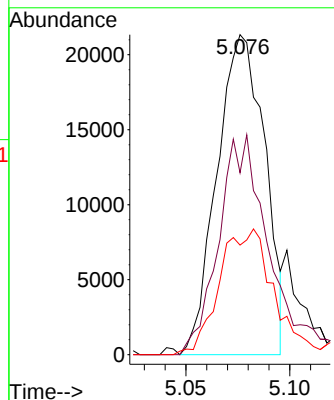
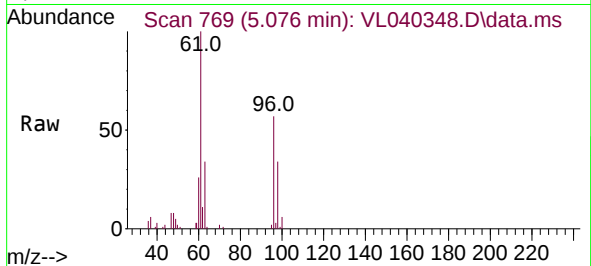




#31  
 cis-1,2-Dichloroethene  
 Concen: 0.402 ppbv  
 RT: 5.076 min Scan# 769  
 Delta R.T. 0.000 min  
 Lab File: VL040348.D  
 Acq: 12 Apr 2023 22:43

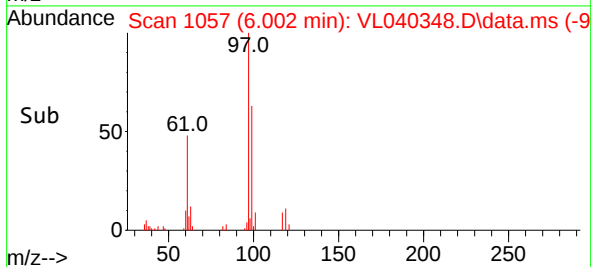
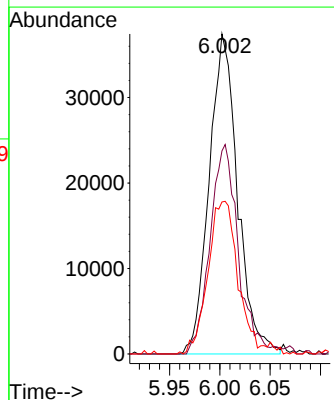
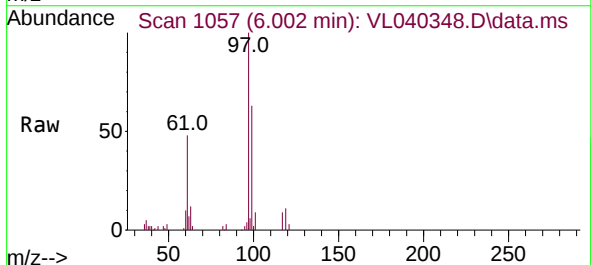
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 MDL-AIR-03-QT2-2023

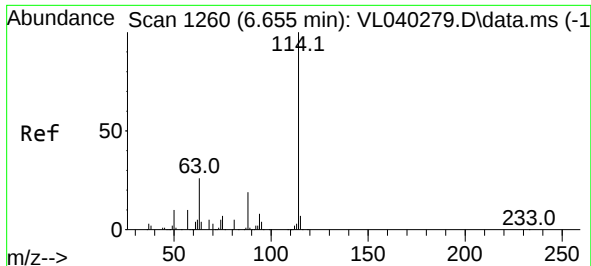
Tgt Ion: 61 Resp: 34227  
 Ion Ratio Lower Upper  
 61 100  
 96 51.2 51.8 77.8#  
 98 29.9 32.5 48.7#



#32  
 1,1,1-Trichloroethane  
 Concen: 0.497 ppbv  
 RT: 6.002 min Scan# 1057  
 Delta R.T. -0.003 min  
 Lab File: VL040348.D  
 Acq: 12 Apr 2023 22:43

Tgt Ion: 97 Resp: 73550  
 Ion Ratio Lower Upper  
 97 100  
 99 66.0 52.2 78.2  
 61 51.6 41.4 62.2





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 6.655 min Scan# 114

Delta R.T. -0.000 min

Lab File: VL040348.D

Acq: 12 Apr 2023 22:43

Instrument :

MSVOA\_L

ClientSampleId :

MDL-AIR-03-QT2-2023

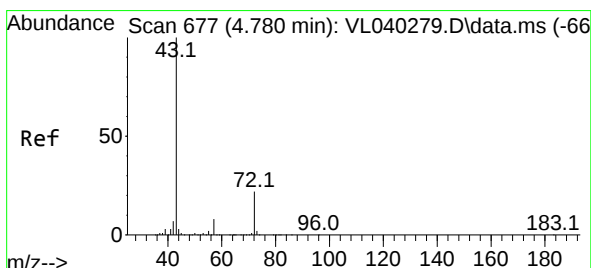
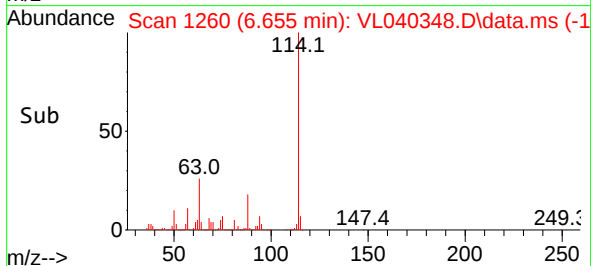
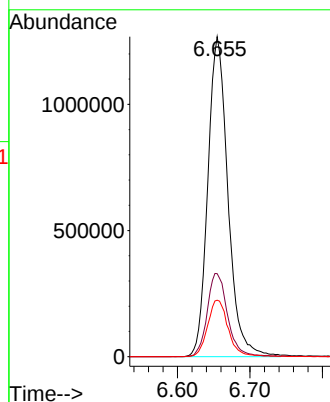
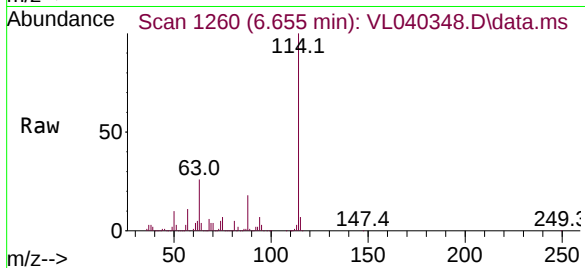
Tgt Ion:114 Resp: 2444441

Ion Ratio Lower Upper

114 100

63 26.7 21.2 31.8

88 18.2 14.5 21.7



#34

2-Butanone

Concen: 0.210 ppbv

RT: 4.793 min Scan# 681

Delta R.T. 0.013 min

Lab File: VL040348.D

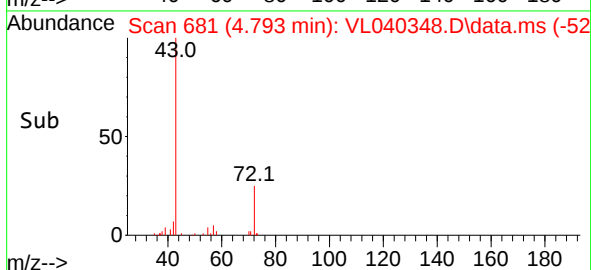
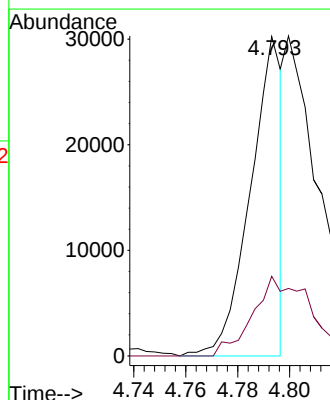
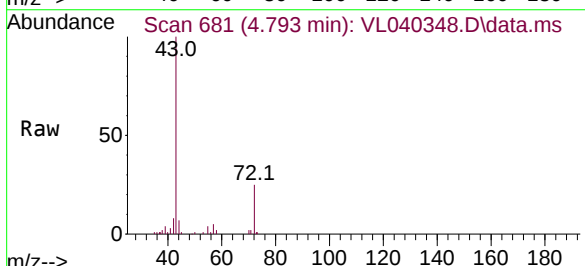
Acq: 12 Apr 2023 22:43

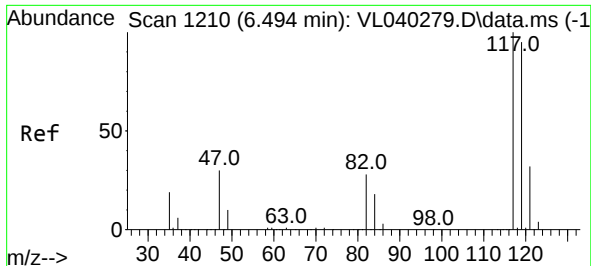
Tgt Ion: 43 Resp: 25383

Ion Ratio Lower Upper

43 100

72 53.6 18.3 27.5#



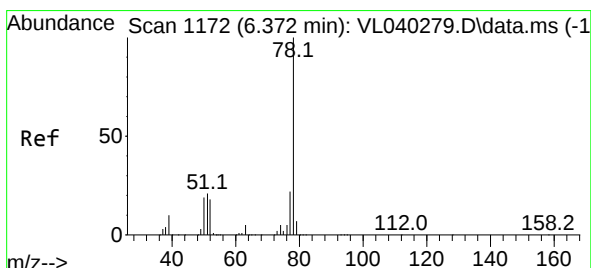
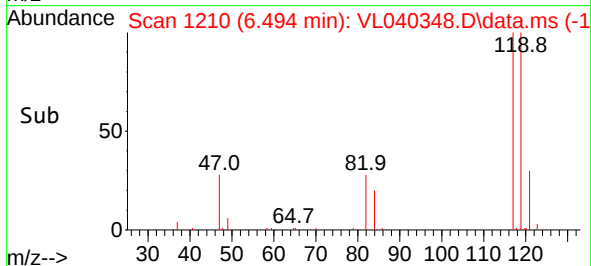
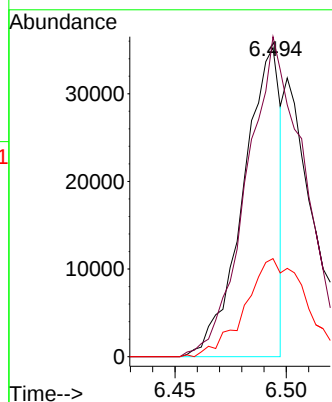
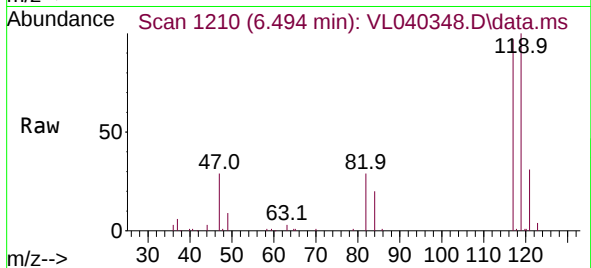


#35  
Carbon Tetrachloride  
Concen: 0.268 ppbv  
RT: 6.494 min Scan# 1170  
Delta R.T. 0.000 min  
Lab File: VL040348.D  
Acq: 12 Apr 2023 22:43

Instrument : MSVOA\_L  
ClientSampleId : MDL-AIR-03-QT2-2023

Tgt Ion: 117 Resp: 41058

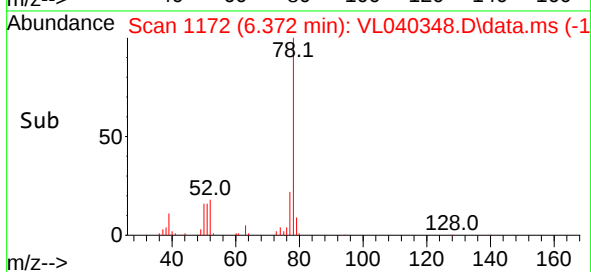
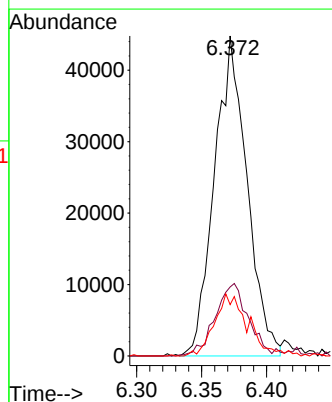
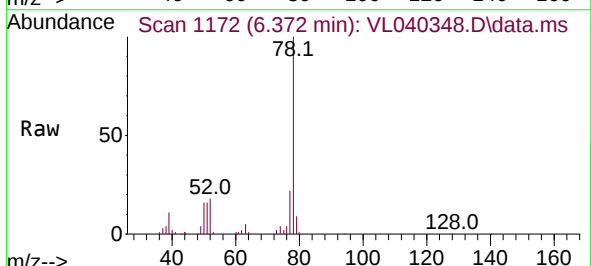
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 117 | 100   |       |       |
| 119 | 103.6 | 76.4  | 114.6 |
| 121 | 31.8  | 25.6  | 38.4  |

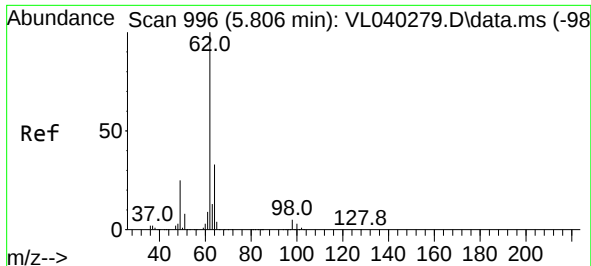


#36  
Benzene  
Concen: 0.419 ppbv  
RT: 6.372 min Scan# 1172  
Delta R.T. -0.000 min  
Lab File: VL040348.D  
Acq: 12 Apr 2023 22:43

Tgt Ion: 78 Resp: 78050

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 78  | 100   |       |       |
| 77  | 21.2  | 17.8  | 26.8  |
| 50  | 15.2  | 15.4  | 23.2  |

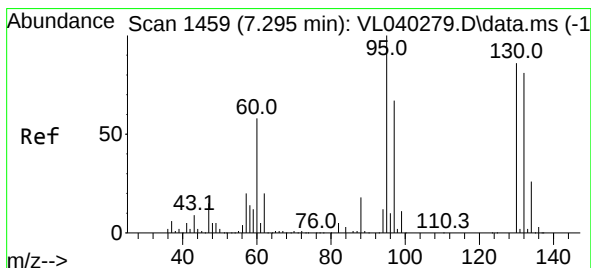
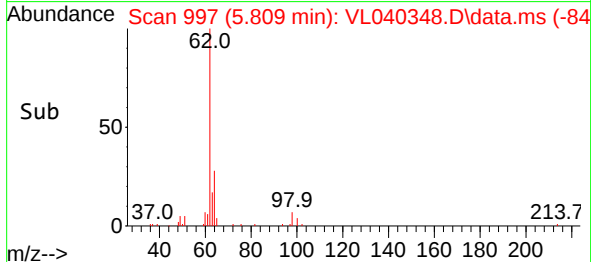
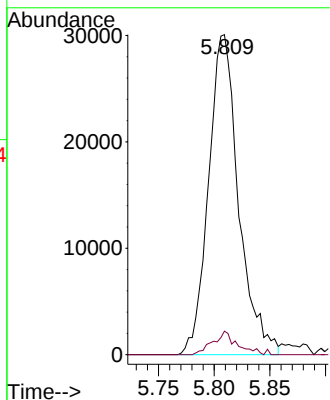
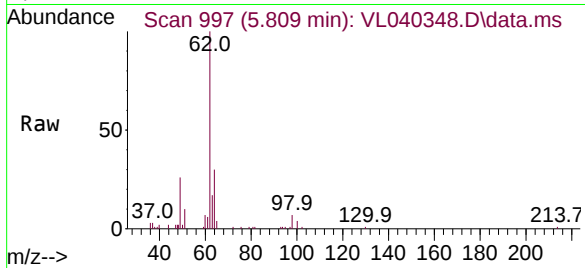




#37  
1,2-Dichloroethane  
Concen: 0.466 ppbv  
RT: 5.809 min Scan# 996  
Delta R.T. 0.003 min  
Lab File: VL040348.D  
Acq: 12 Apr 2023 22:43

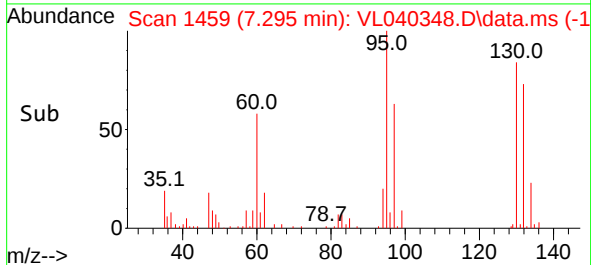
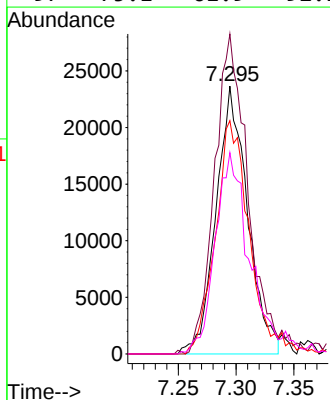
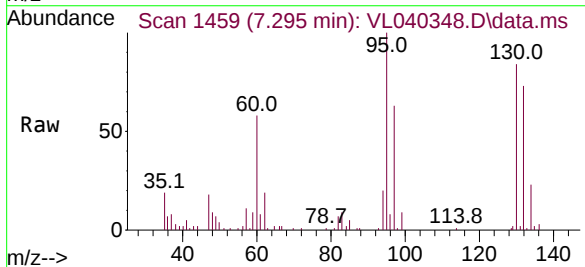
Instrument :  
MSVOA\_L  
ClientSampleId :  
MDL-AIR-03-QT2-2023

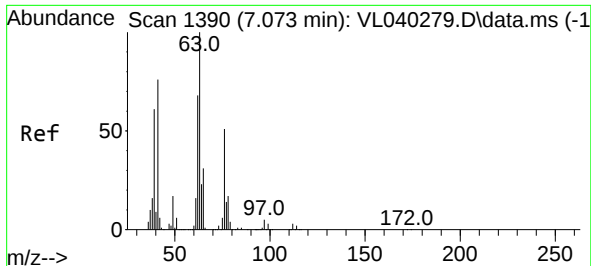
Tgt Ion: 62 Resp: 56492  
Ion Ratio Lower Upper  
62 100  
98 6.0 4.3 6.5



#38  
Trichloroethene  
Concen: 0.442 ppbv  
RT: 7.295 min Scan# 1459  
Delta R.T. -0.000 min  
Lab File: VL040348.D  
Acq: 12 Apr 2023 22:43

Tgt Ion:130 Resp: 44979  
Ion Ratio Lower Upper  
130 100  
95 118.1 93.0 139.4  
132 87.1 75.3 112.9  
97 75.1 61.9 92.9





#39

1,2-Dichloropropane

Concen: 0.445 ppbv

RT: 7.079 min Scan# 1

Delta R.T. 0.006 min

Lab File: VL040348.D

Acq: 12 Apr 2023 22:43

Instrument :

MSVOA\_L

ClientSampleId :

MDL-AIR-03-QT2-2023

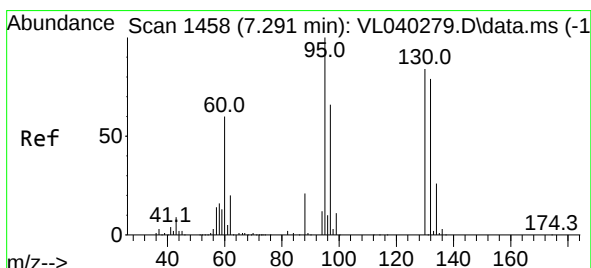
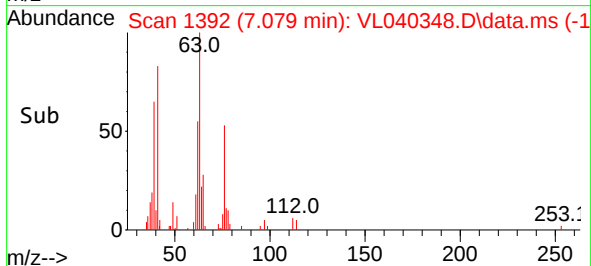
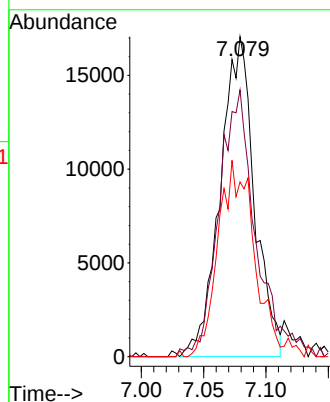
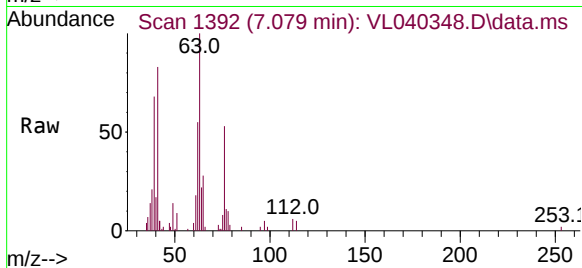
Tgt Ion: 63 Resp: 32535

Ion Ratio Lower Upper

63 100

41 80.9 60.8 91.2

62 52.8 54.1 81.1#



#40

1,4-Dioxane

Concen: 0.222 ppbv

RT: 7.324 min Scan# 1468

Delta R.T. 0.033 min

Lab File: VL040348.D

Acq: 12 Apr 2023 22:43

Tgt Ion: 88 Resp: 6416

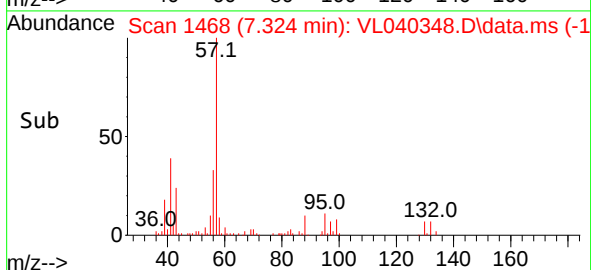
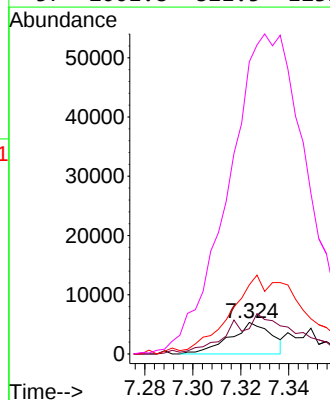
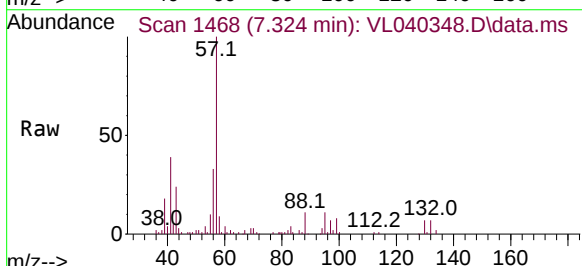
Ion Ratio Lower Upper

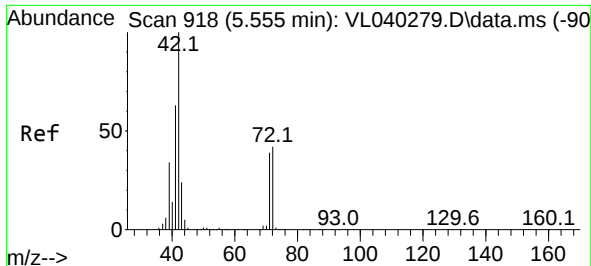
88 100

58 236.4 96.0 144.0#

43 458.9 187.6 281.4#

57 2001.8 821.5 1232.3#





#41

Tetrahydrofuran

Concen: 0.286 ppbv

RT: 5.584 min Scan# 918

Delta R.T. 0.029 min

Lab File: VL040348.D

Acq: 12 Apr 2023 22:43

Instrument :

MSVOA\_L

ClientSampleId :

MDL-AIR-03-QT2-2023

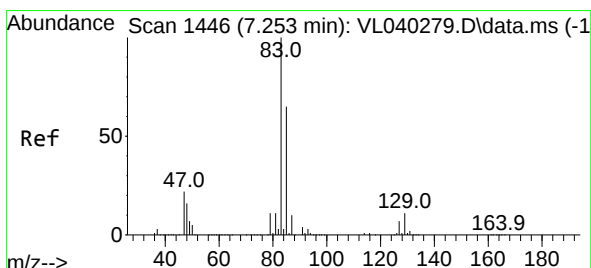
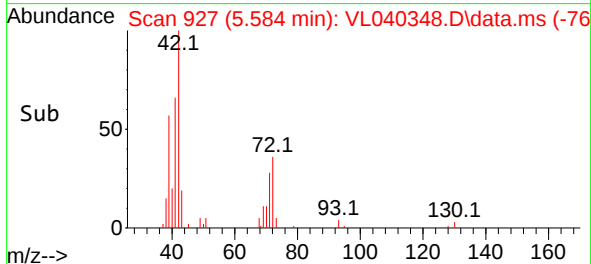
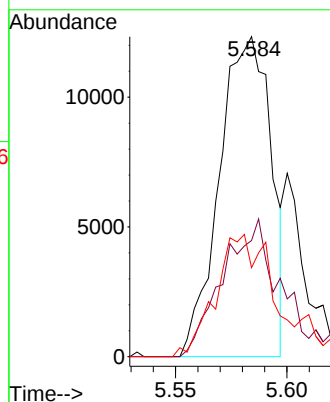
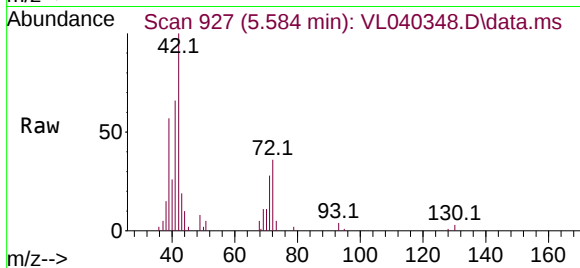
Tgt Ion: 42 Resp: 19889

Ion Ratio Lower Upper

42 100

72 51.5 32.6 49.0#

71 48.7 31.0 46.4#



#42

Bromodichloromethane

Concen: 0.441 ppbv

RT: 7.253 min Scan# 1446

Delta R.T. -0.000 min

Lab File: VL040348.D

Acq: 12 Apr 2023 22:43

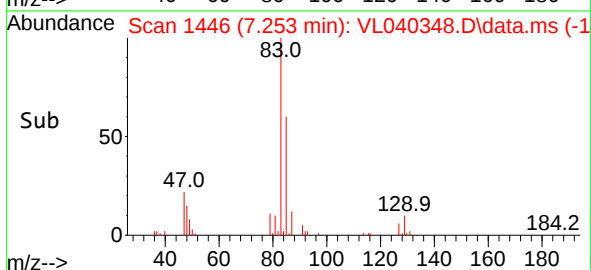
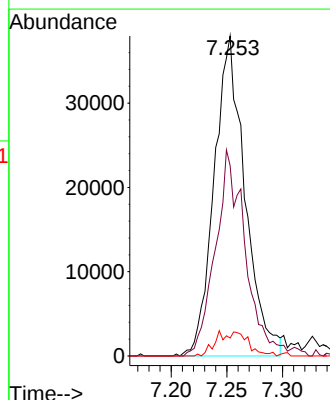
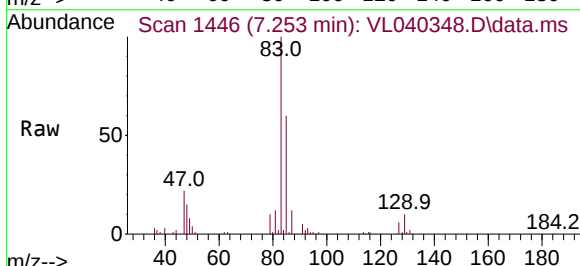
Tgt Ion: 83 Resp: 72990

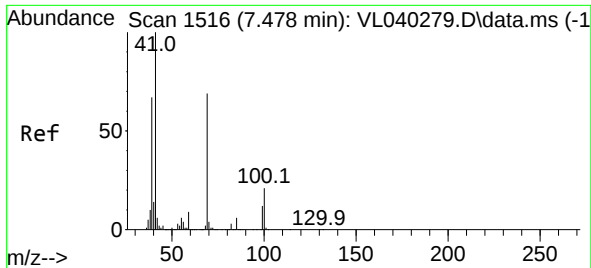
Ion Ratio Lower Upper

83 100

85 59.5 52.1 78.1

127 5.6 5.8 8.6#

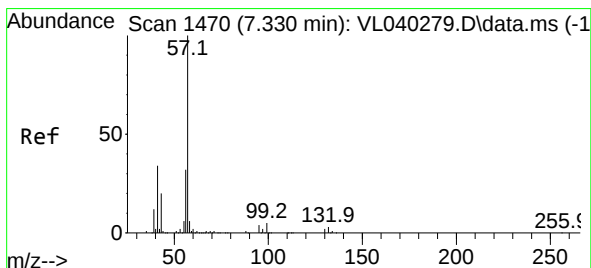
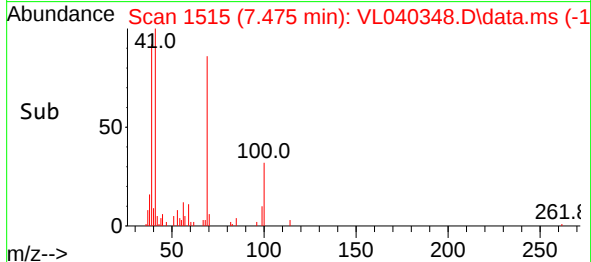
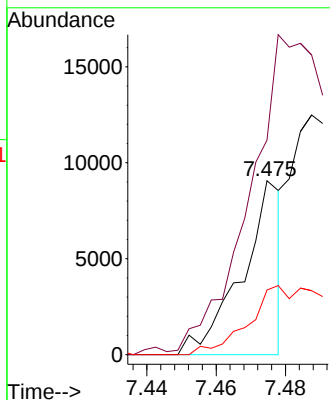
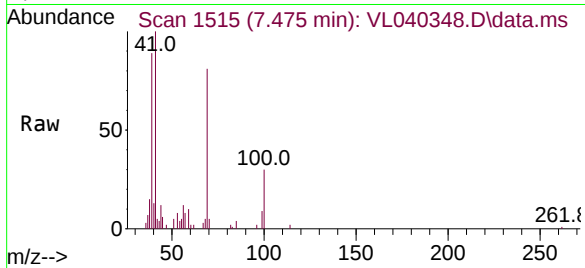




#43  
Methyl Methacrylate  
Concen: 0.103 ppbv  
RT: 7.475 min Scan# 1515  
Delta R.T. -0.003 min  
Lab File: VL040348.D  
Acq: 12 Apr 2023 22:43

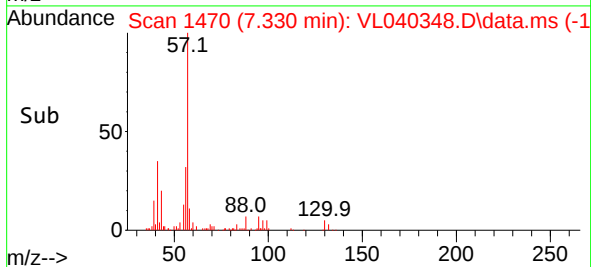
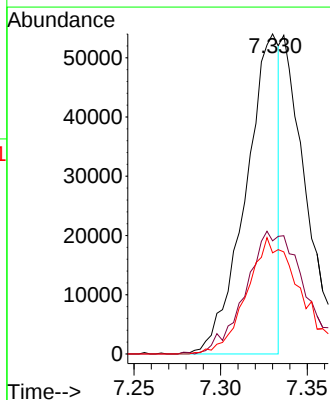
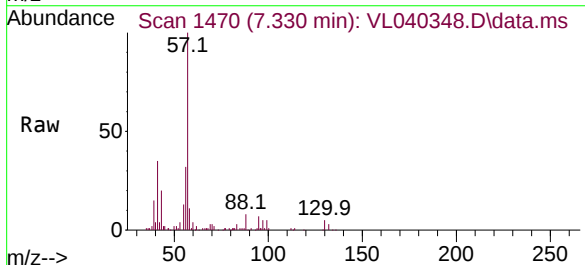
Instrument : MSVOA\_L  
ClientSampleId : MDL-AIR-03-QT2-2023

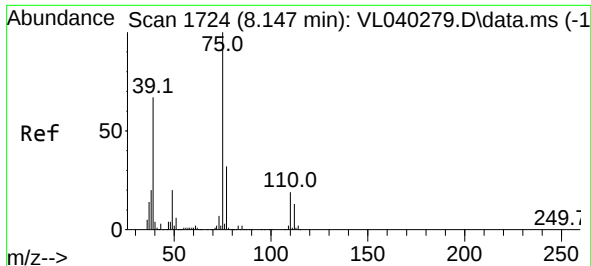
Tgt Ion: 69 Resp: 7109  
Ion Ratio Lower Upper  
69 100  
41 512.7 116.9 175.3#  
100 110.5 24.2 36.4#



#44  
2,2,4-Trimethylpentane  
Concen: 0.234 ppbv  
RT: 7.330 min Scan# 1470  
Delta R.T. -0.000 min  
Lab File: VL040348.D  
Acq: 12 Apr 2023 22:43

Tgt Ion: 57 Resp: 72540  
Ion Ratio Lower Upper  
57 100  
41 69.4 26.8 40.2#  
56 59.3 25.0 37.6#

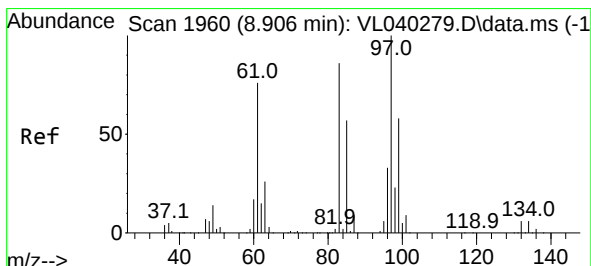
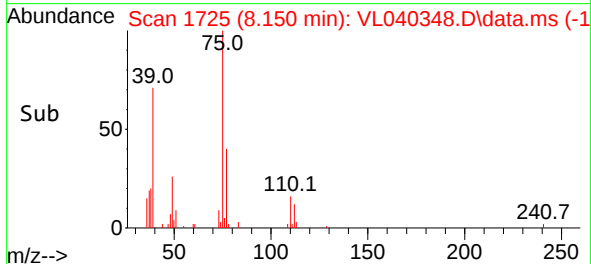
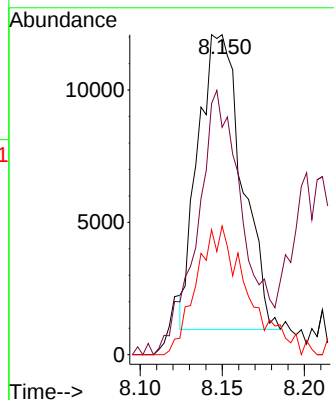
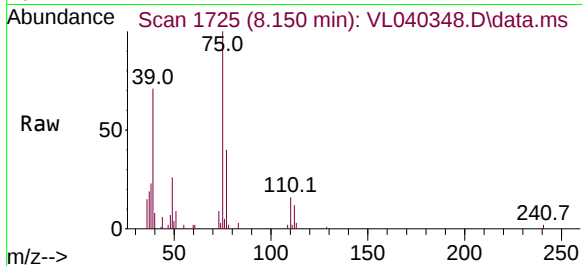




#46  
 cis-1,3-Dichloropropene  
 Concen: 0.243 ppbv  
 RT: 8.150 min Scan# 1725  
 Delta R.T. 0.003 min  
 Lab File: VL040348.D  
 Acq: 12 Apr 2023 22:43

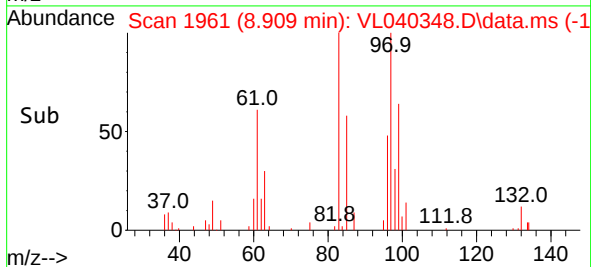
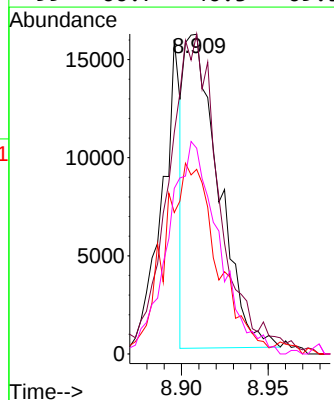
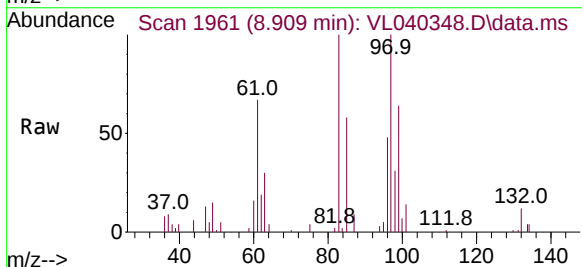
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 MDL-AIR-03-QT2-2023

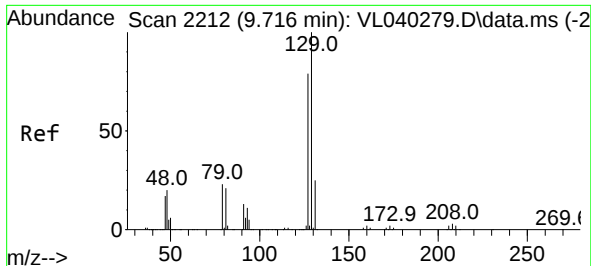
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 75    | Resp: | 20825 |
| Ion      | Ratio | Lower | Upper |
| 75       | 100   |       |       |
| 39       | 59.2  | 53.9  | 80.9  |
| 77       | 38.0  | 25.3  | 37.9# |



#47  
 1,1,2-Trichloroethane  
 Concen: 0.283 ppbv  
 RT: 8.909 min Scan# 1961  
 Delta R.T. 0.003 min  
 Lab File: VL040348.D  
 Acq: 12 Apr 2023 22:43

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 97    | Resp: | 22031 |
| Ion      | Ratio | Lower | Upper |
| 97       | 100   |       |       |
| 83       | 97.2  | 68.6  | 103.0 |
| 85       | 55.9  | 46.0  | 69.0  |
| 99       | 66.7  | 46.3  | 69.5  |

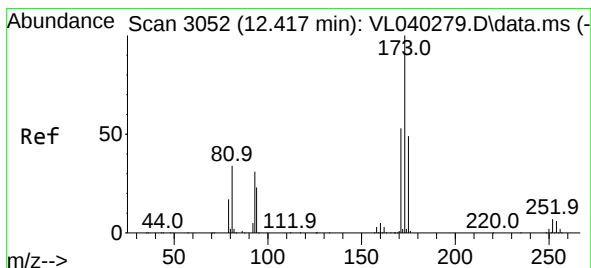
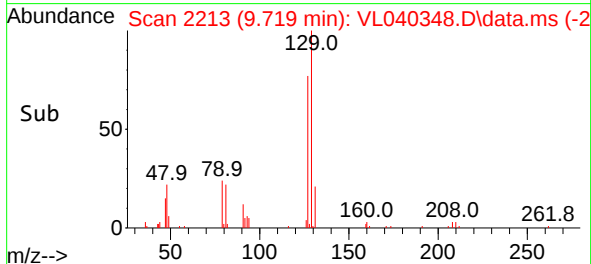
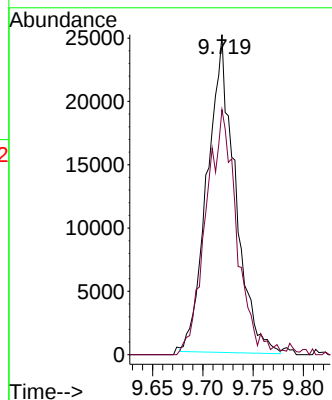
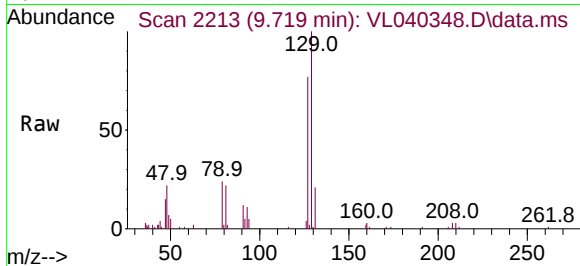




#48  
Dibromochloromethane  
Concen: 0.376 ppbv  
RT: 9.719 min Scan# 211  
Delta R.T. 0.003 min  
Lab File: VL040348.D  
Acq: 12 Apr 2023 22:43

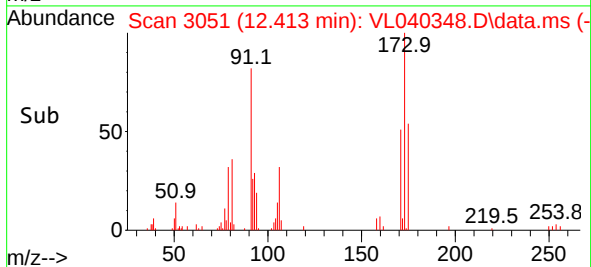
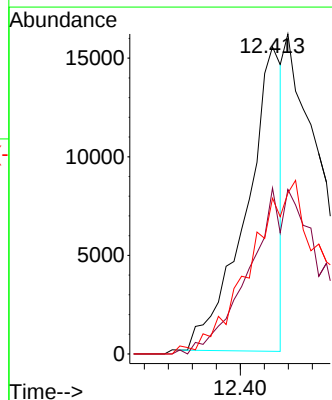
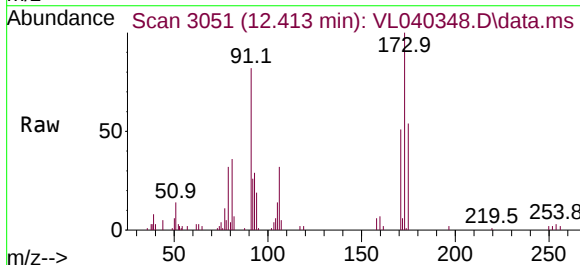
Instrument :  
MSVOA\_L  
ClientSampleId :  
MDL-AIR-03-QT2-2023

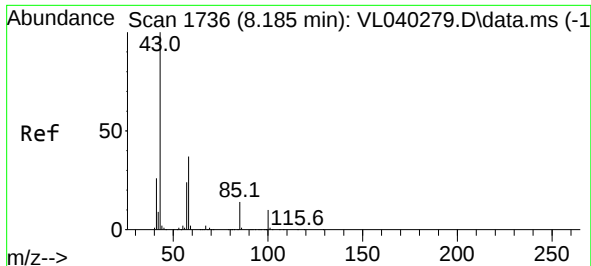
Tgt Ion:129 Resp: 48278  
Ion Ratio Lower Upper  
129 100  
127 86.7 39.1 117.5



#49  
Bromoform  
Concen: 0.166 ppbv  
RT: 12.413 min Scan# 3051  
Delta R.T. -0.004 min  
Lab File: VL040348.D  
Acq: 12 Apr 2023 22:43

Tgt Ion:173 Resp: 16010  
Ion Ratio Lower Upper  
173 100  
175 110.8 39.8 59.8#  
171 0.0 42.2 63.4#

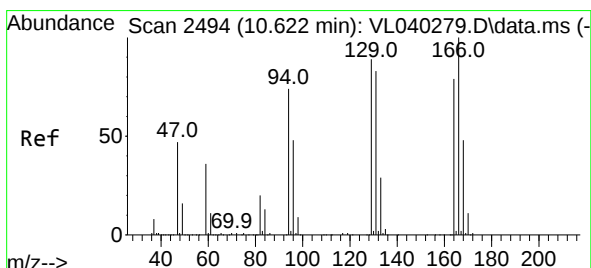
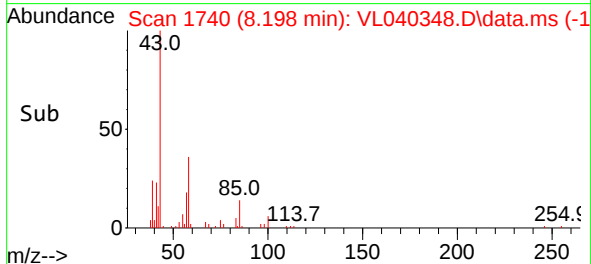
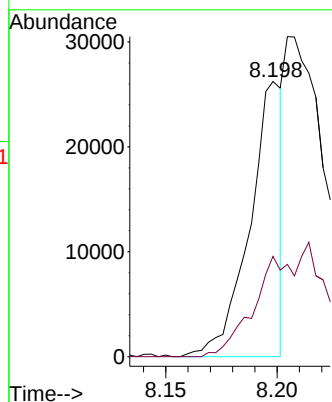
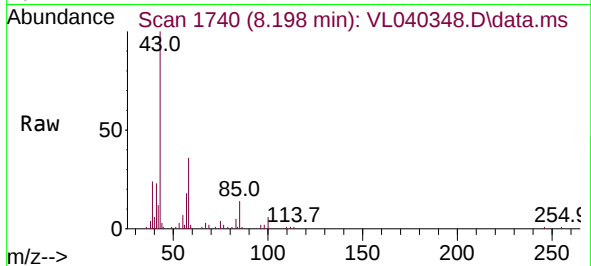




#50  
4-Methyl-2-Pentanone  
Concen: 0.142 ppbv  
RT: 8.198 min Scan# 11  
Delta R.T. 0.013 min  
Lab File: VL040348.D  
Acq: 12 Apr 2023 22:43

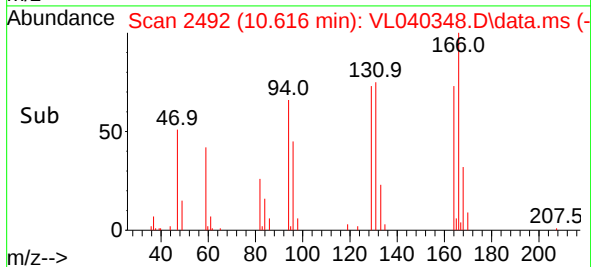
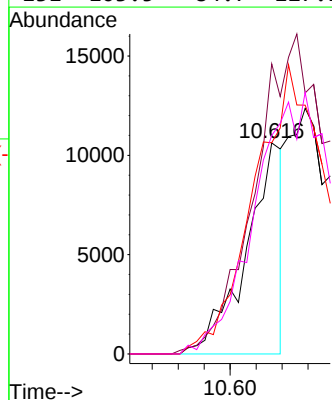
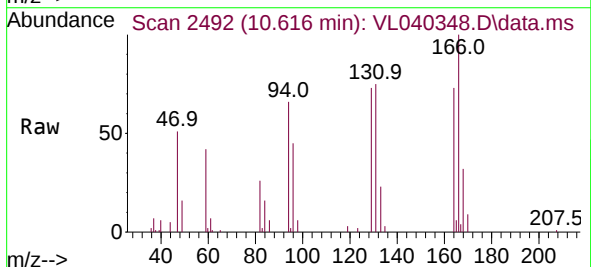
Instrument :  
MSVOA\_L  
ClientSampleId :  
MDL-AIR-03-QT2-2023

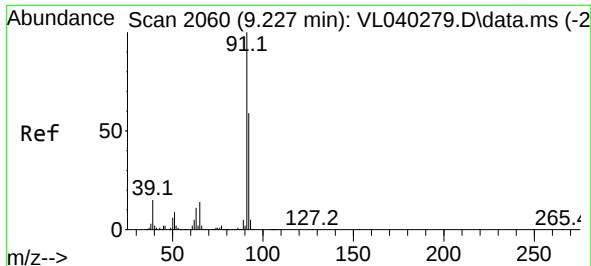
Tgt Ion: 43 Resp: 26437  
Ion Ratio Lower Upper  
43 100  
58 0.0 29.2 43.8#



#52  
Tetrachloroethene  
Concen: 0.182 ppbv  
RT: 10.616 min Scan# 2492  
Delta R.T. -0.006 min  
Lab File: VL040348.D  
Acq: 12 Apr 2023 22:43

Tgt Ion: 164 Resp: 10251  
Ion Ratio Lower Upper  
164 100  
166 135.7 101.8 152.6  
129 100.0 90.2 135.2  
131 103.5 84.7 127.1

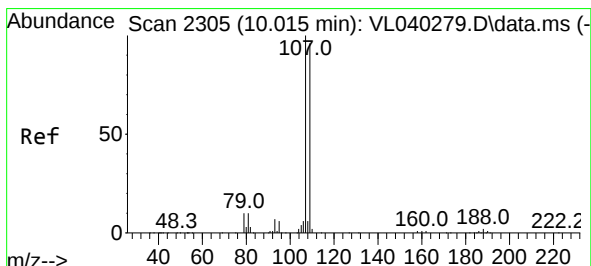
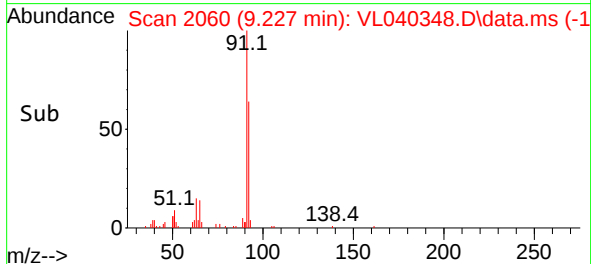
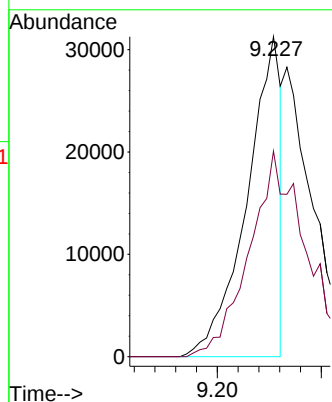
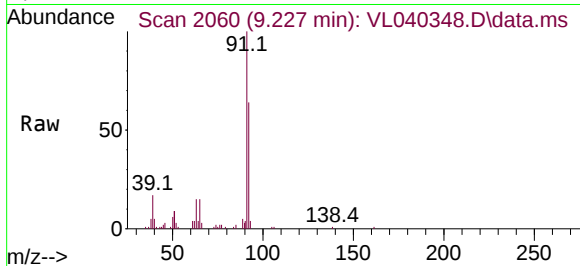




#53  
Toluene  
Concen: 0.182 ppbv  
RT: 9.227 min Scan# 2060  
Delta R.T. 0.000 min  
Lab File: VL040348.D  
Acq: 12 Apr 2023 22:43

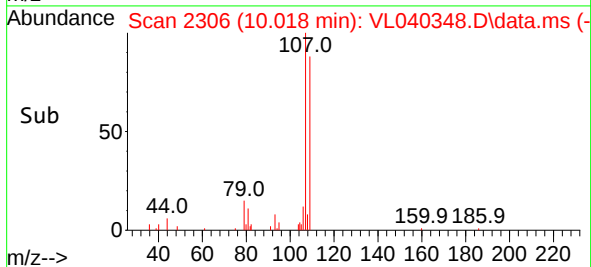
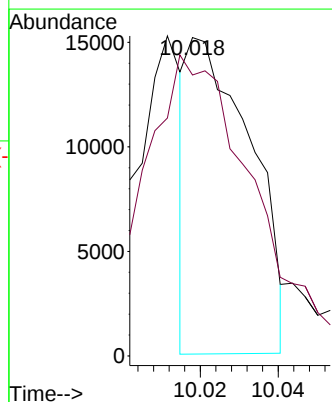
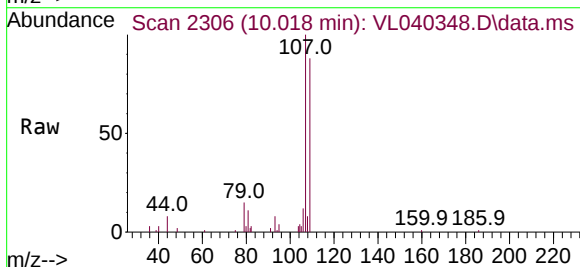
Instrument :  
MSVOA\_L  
ClientSampleId :  
MDL-AIR-03-QT2-2023

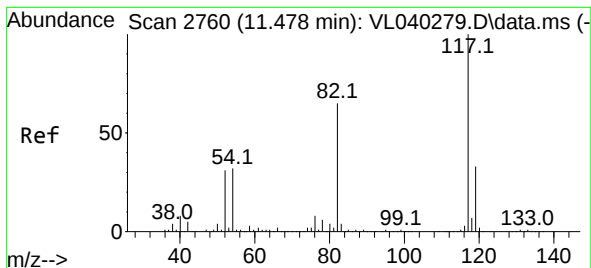
Tgt Ion: 91 Resp: 35477  
Ion Ratio Lower Upper  
91 100  
92 108.5 48.0 72.0#



#54  
1,2-Dibromoethane  
Concen: 0.211 ppbv  
RT: 10.018 min Scan# 2306  
Delta R.T. 0.003 min  
Lab File: VL040348.D  
Acq: 12 Apr 2023 22:43

Tgt Ion: 107 Resp: 16950  
Ion Ratio Lower Upper  
107 100  
109 82.0 77.0 115.6





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 11.478 min Scan# 21

Delta R.T. -0.000 min

Lab File: VL040348.D

Acq: 12 Apr 2023 22:43

Instrument :

MSVOA\_L

ClientSampleId :

MDL-AIR-03-QT2-2023

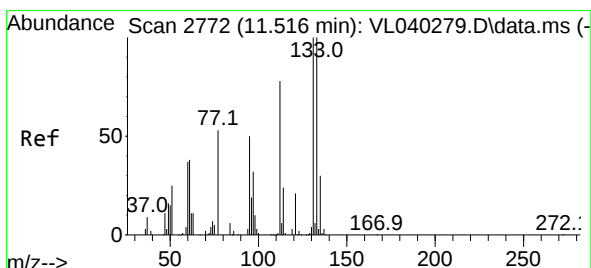
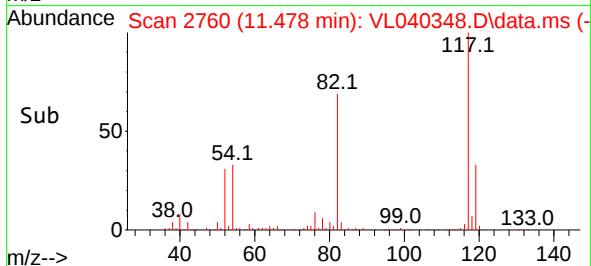
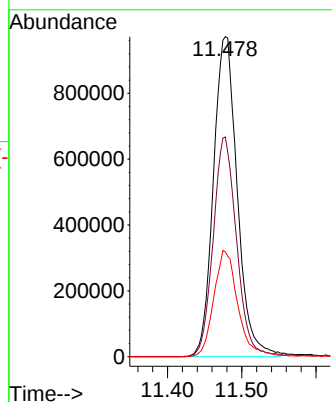
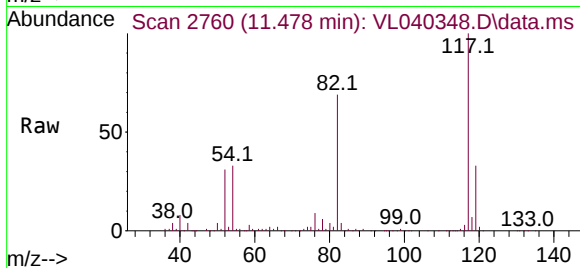
Tgt Ion:117 Resp: 2172544

Ion Ratio Lower Upper

117 100

82 68.1 51.4 77.2

119 33.4 24.0 36.0



#56

1,1,1,2-Tetrachloroethane

Concen: 0.204 ppbv

RT: 11.526 min Scan# 2775

Delta R.T. 0.010 min

Lab File: VL040348.D

Acq: 12 Apr 2023 22:43

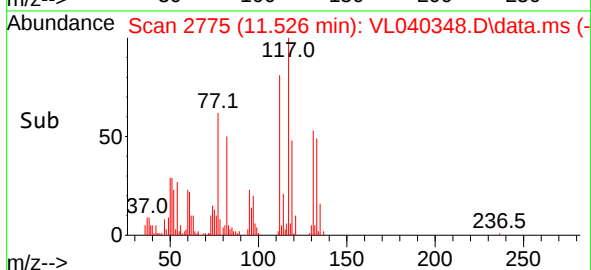
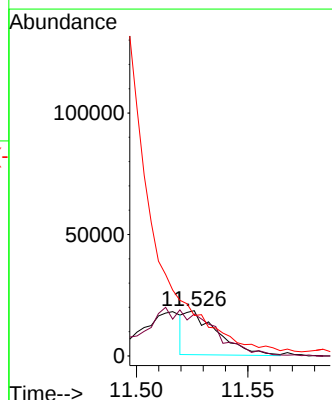
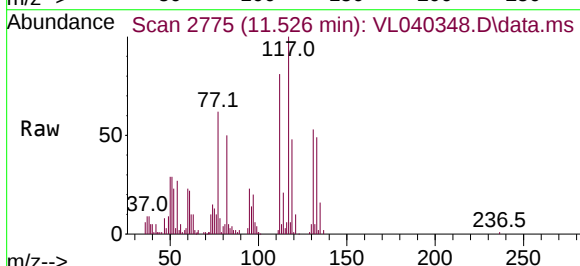
Tgt Ion:131 Resp: 18667

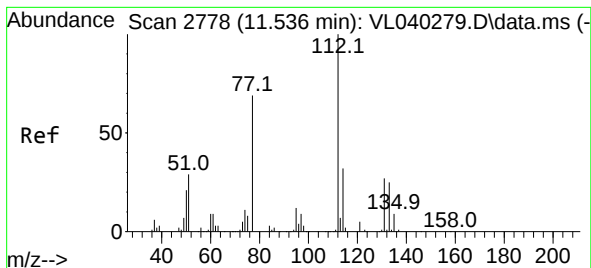
Ion Ratio Lower Upper

131 100

133 0.0 76.5 114.7#

119 0.0 47.9 71.9#





#57

Chlorobenzene

Concen: 0.475 ppbv

RT: 11.536 min Scan# 21

Delta R.T. -0.000 min

Lab File: VL040348.D

Acq: 12 Apr 2023 22:43

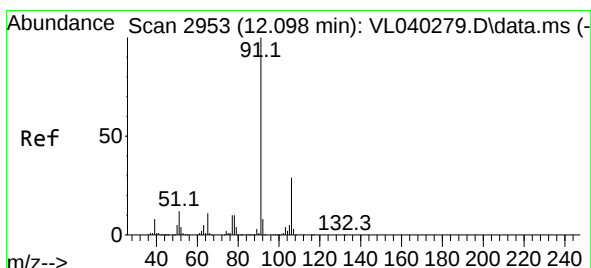
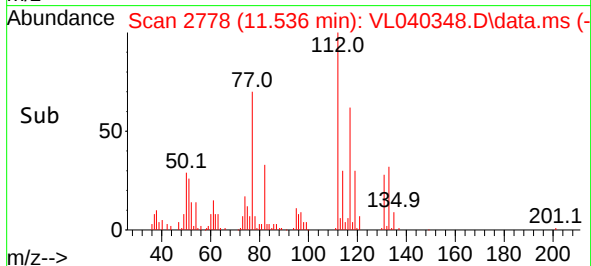
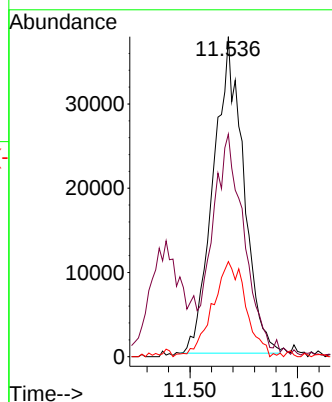
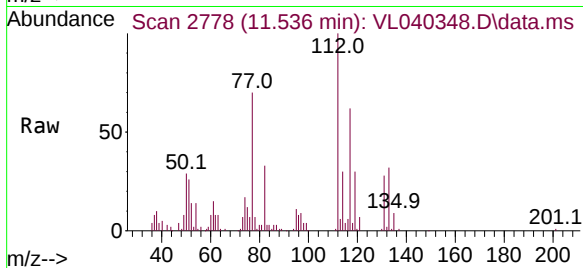
Instrument :

MSVOA\_L

ClientSampleId :

MDL-AIR-03-QT2-2023

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 112   | Resp: | 73445 |
| Ion Ratio | Lower | Upper |       |
| 112       | 100   |       |       |
| 77        | 68.8  | 56.2  | 84.2  |
| 114       | 29.2  | 29.0  | 35.4  |



#58

Ethyl Benzene

Concen: 0.360 ppbv

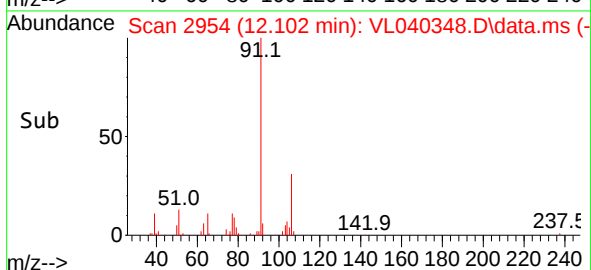
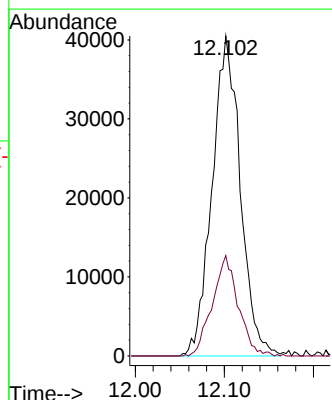
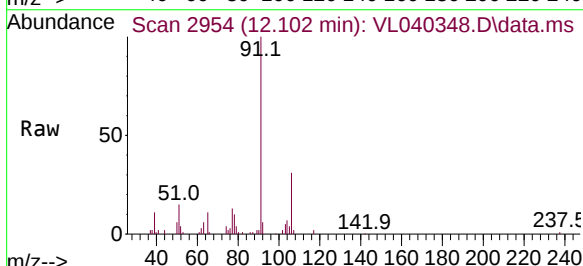
RT: 12.102 min Scan# 2954

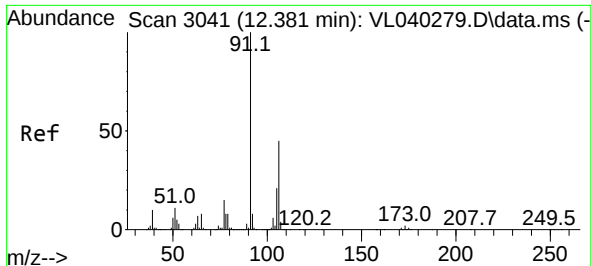
Delta R.T. 0.003 min

Lab File: VL040348.D

Acq: 12 Apr 2023 22:43

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 91    | Resp: | 88988 |
| Ion Ratio | Lower | Upper |       |
| 91        | 100   |       |       |
| 106       | 31.4  | 23.4  | 35.2  |





#59

m/p-Xylene

Concen: 0.112 ppbv

RT: 12.384 min Scan# 3041

Delta R.T. 0.003 min

Lab File: VL040348.D

Acq: 12 Apr 2023 22:43

Instrument :

MSVOA\_1

ClientSampleId :

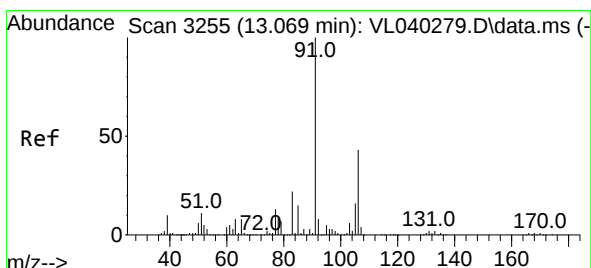
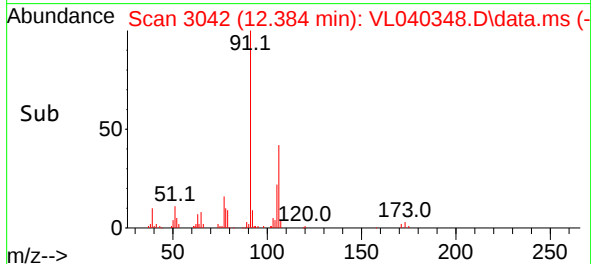
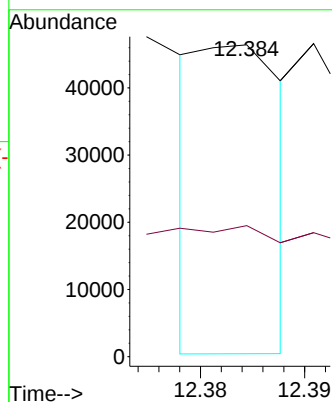
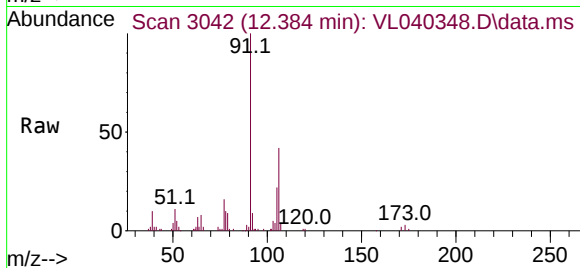
MDL-AIR-03-QT2-2023

Tgt Ion: 91 Resp: 25470

Ion Ratio Lower Upper

91 100

106 284.7 34.0 51.0#



#60

o-Xylene

Concen: 0.382 ppbv

RT: 13.073 min Scan# 3256

Delta R.T. 0.004 min

Lab File: VL040348.D

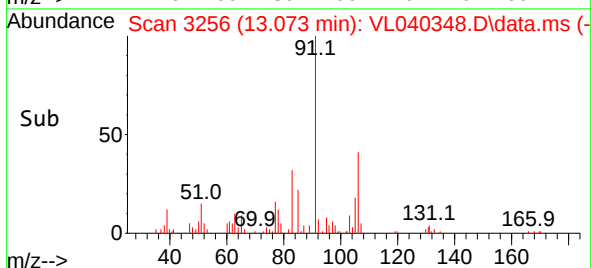
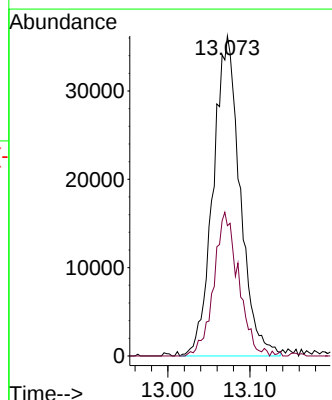
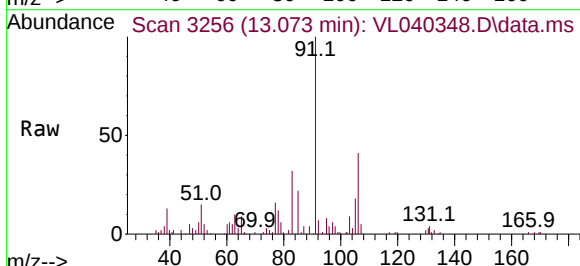
Acq: 12 Apr 2023 22:43

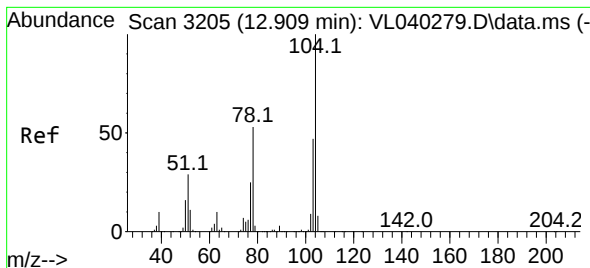
Tgt Ion: 91 Resp: 82664

Ion Ratio Lower Upper

91 100

106 41.8 21.7 65.1





#61

Styrene

Concen: 0.125 ppbv

RT: 12.905 min Scan# 31

Delta R.T. -0.004 min

Lab File: VL040348.D

Acq: 12 Apr 2023 22:43

Instrument :

MSVOA\_L

ClientSampleId :

MDL-AIR-03-QT2-2023

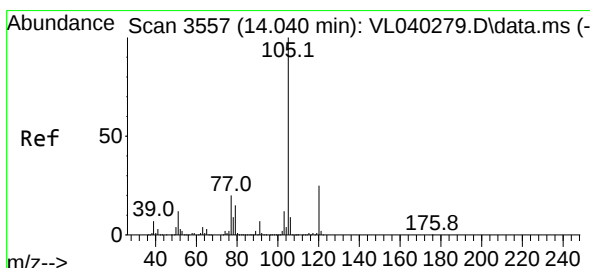
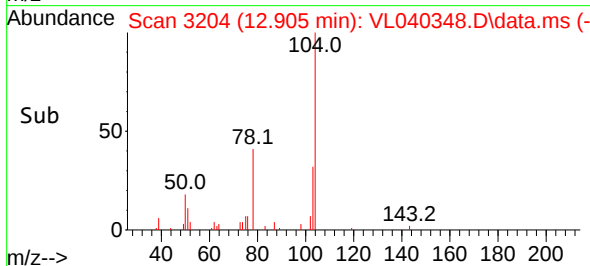
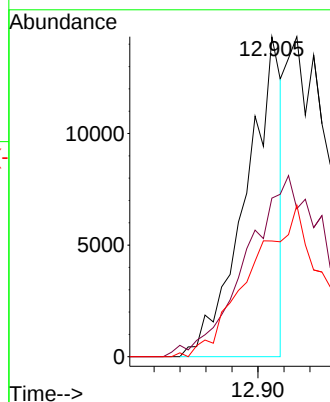
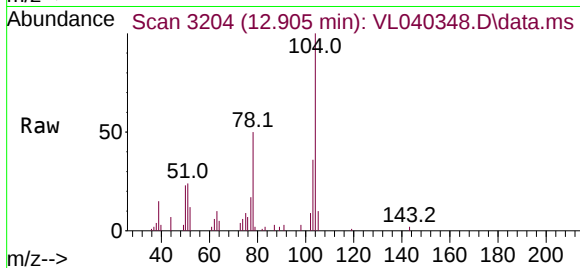
Tgt Ion:104 Resp: 13783

Ion Ratio Lower Upper

104 100

78 0.0 43.7 65.5#

103 0.0 37.4 56.2#



#62

Isopropylbenzene

Concen: 0.416 ppbv

RT: 14.044 min Scan# 3558

Delta R.T. 0.004 min

Lab File: VL040348.D

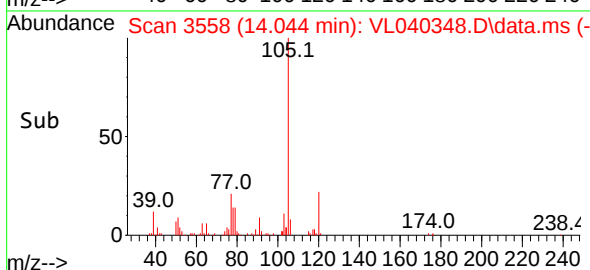
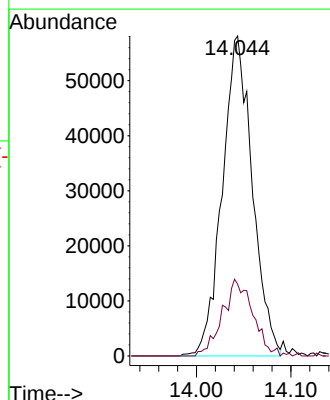
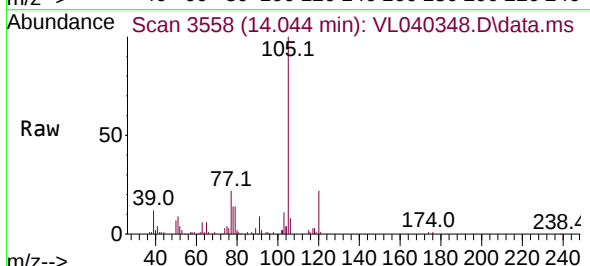
Acq: 12 Apr 2023 22:43

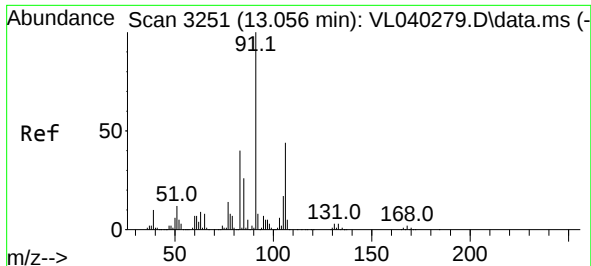
Tgt Ion:105 Resp: 128307

Ion Ratio Lower Upper

105 100

120 24.2 19.9 29.9

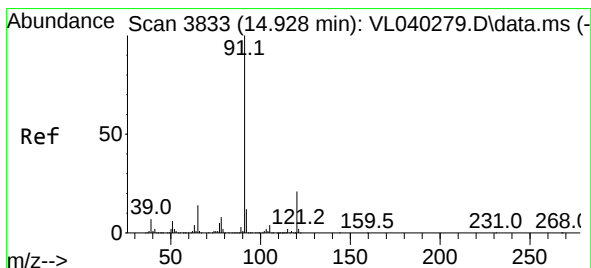
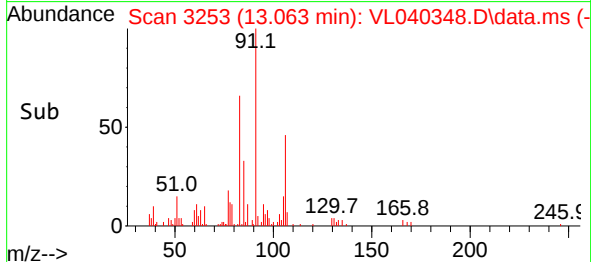
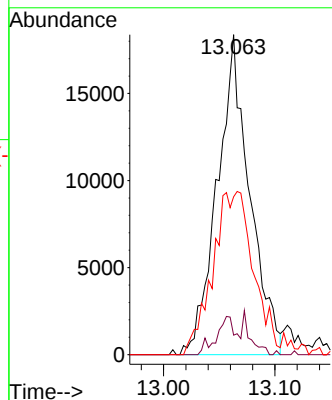
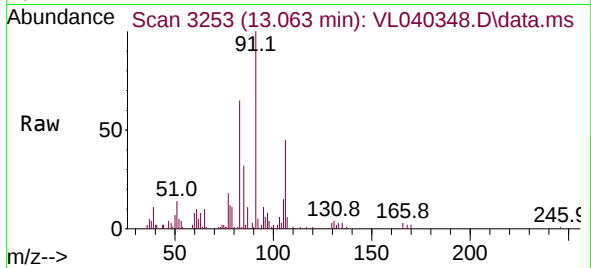




#63  
1,1,2,2-Tetrachloroethane  
Concen: 0.487 ppbv  
RT: 13.063 min Scan# 31  
Delta R.T. 0.007 min  
Lab File: VL040348.D  
Acq: 12 Apr 2023 22:43

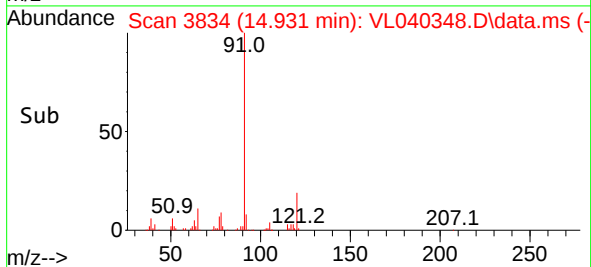
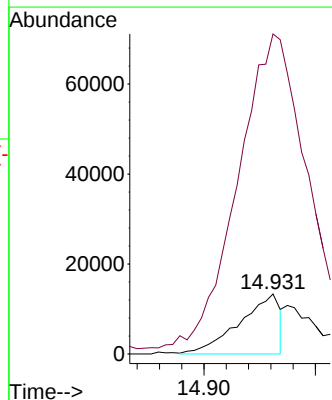
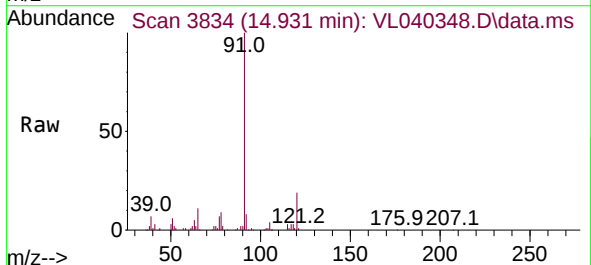
Instrument :  
MSVOA\_L  
ClientSampleId :  
MDL-AIR-03-QT2-2023

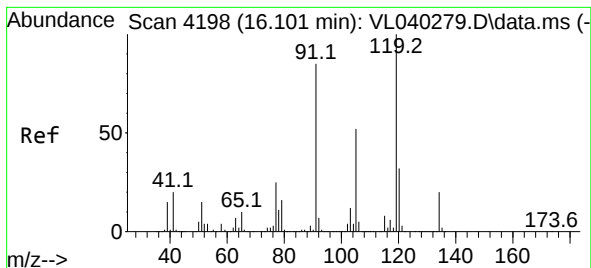
Tgt Ion: 83 Resp: 37116  
Ion Ratio Lower Upper  
83 100  
131 10.5 4.3 12.9  
85 67.7 32.7 98.1



#64  
n-propylbenzene  
Concen: 0.222 ppbv  
RT: 14.931 min Scan# 3834  
Delta R.T. 0.003 min  
Lab File: VL040348.D  
Acq: 12 Apr 2023 22:43

Tgt Ion: 120 Resp: 16767  
Ion Ratio Lower Upper  
120 100  
91 994.2 399.0 598.6#





#65

tert-Butylbenzene

Concen: 0.239 ppbv

RT: 16.105 min Scan# 4198

Delta R.T. 0.004 min

Lab File: VL040348.D

Acq: 12 Apr 2023 22:43

Instrument :

MSVOA\_L

ClientSampleId :

MDL-AIR-03-QT2-2023

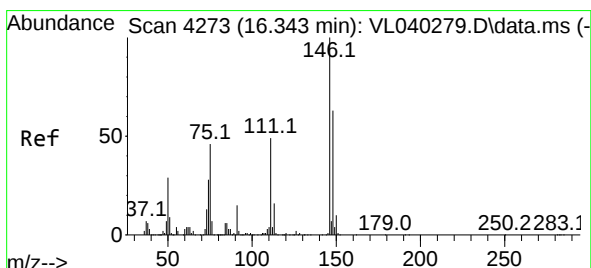
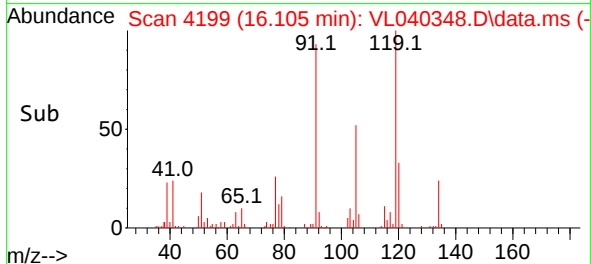
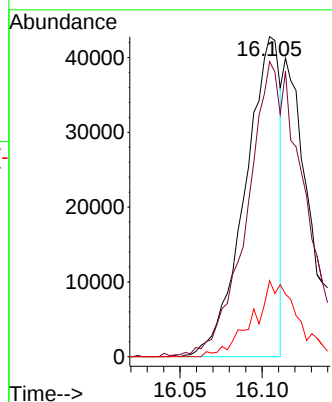
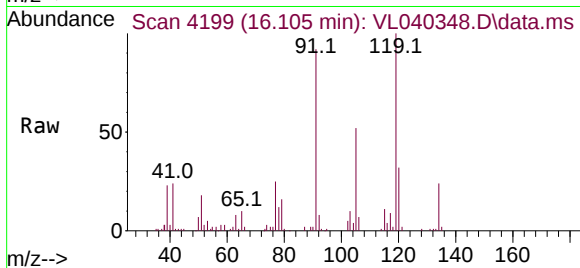
Tgt Ion:119 Resp: 63522

Ion Ratio Lower Upper

119 100

91 157.3 69.4 104.2#

134 32.0 15.8 23.6#



#66

Benzyl Chloride

Concen: 0.114 ppbv

RT: 16.342 min Scan# 4273

Delta R.T. -0.001 min

Lab File: VL040348.D

Acq: 12 Apr 2023 22:43

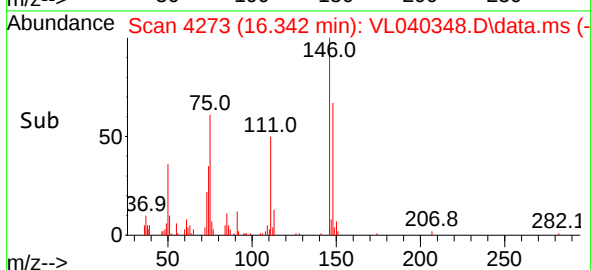
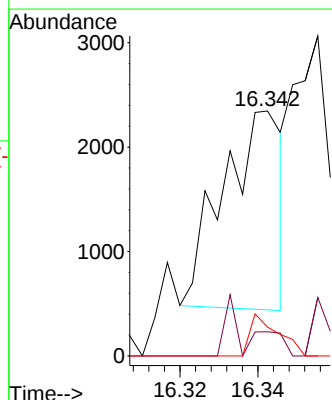
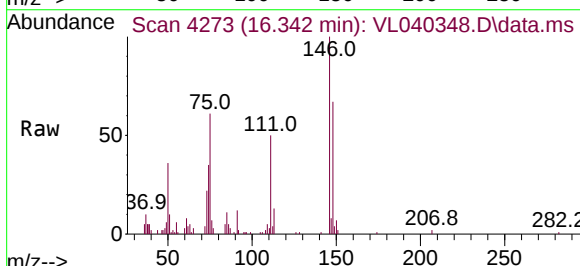
Tgt Ion: 91 Resp: 1977

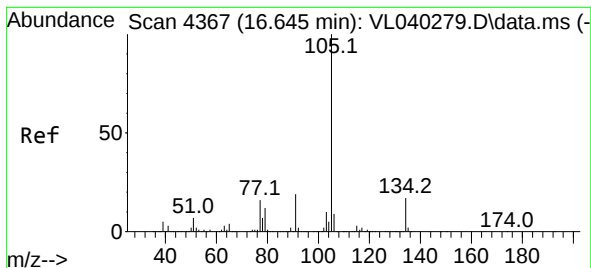
Ion Ratio Lower Upper

91 100

126 27.1 12.1 18.1#

128 10.2 3.8 5.6#





#67

sec-Butylbenzene

Concen: 0.401 ppbv

RT: 16.654 min Scan# 41

Delta R.T. 0.009 min

Lab File: VL040348.D

Acq: 12 Apr 2023 22:43

Instrument :

MSVOA\_L

ClientSampleId :

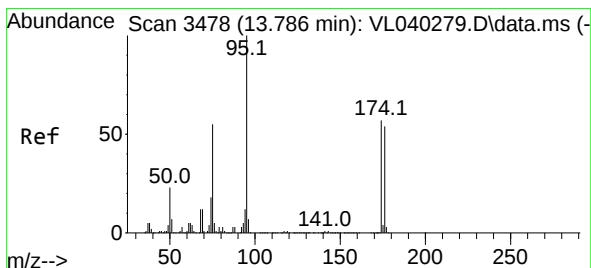
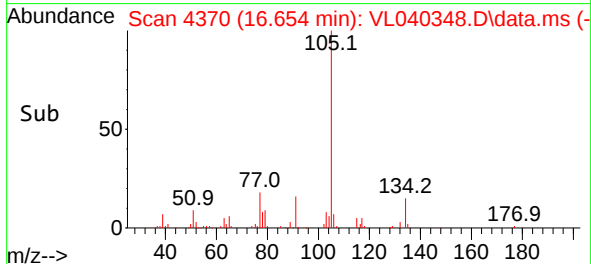
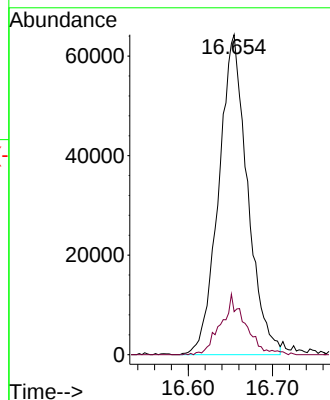
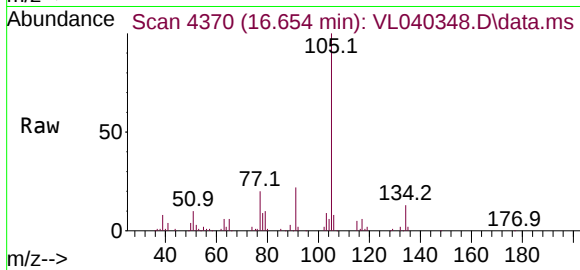
MDL-AIR-03-QT2-2023

Tgt Ion:105 Resp: 152553

Ion Ratio Lower Upper

105 100

134 16.2 14.0 21.0



#68

1-Bromo-4-Fluorobenzene

Concen: 10.137 ppbv

RT: 13.790 min Scan# 3479

Delta R.T. 0.004 min

Lab File: VL040348.D

Acq: 12 Apr 2023 22:43

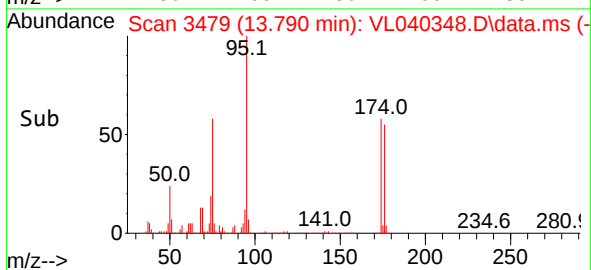
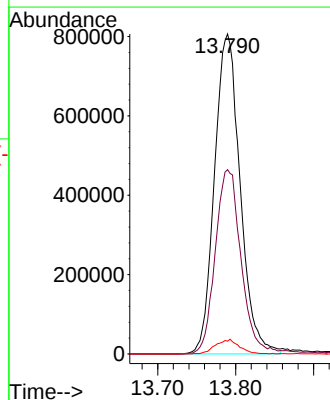
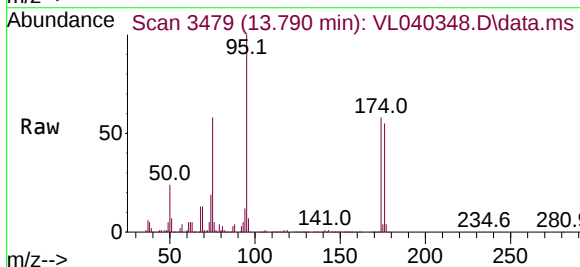
Tgt Ion: 95 Resp: 1844176

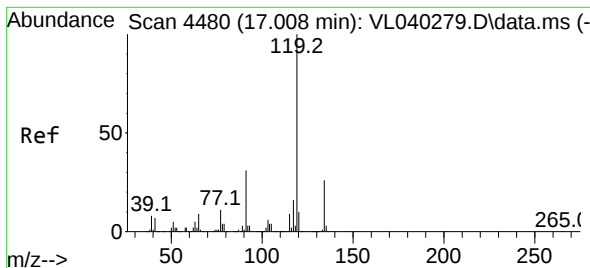
Ion Ratio Lower Upper

95 100

174 59.5 47.0 70.6

175 4.4 3.4 5.2





#69

p-Isopropyltoluene

Concen: 0.370 ppbv

RT: 17.008 min Scan# 4480

Delta R.T. 0.000 min

Lab File: VL040348.D

Acq: 12 Apr 2023 22:43

Instrument :

MSVOA\_L

ClientSampleId :

MDL-AIR-03-QT2-2023

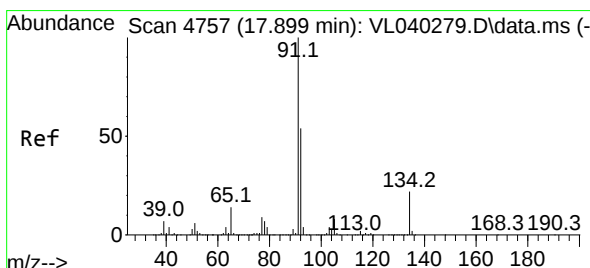
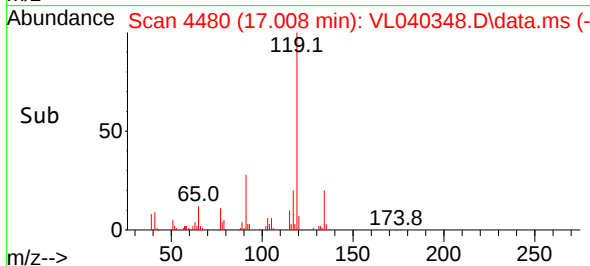
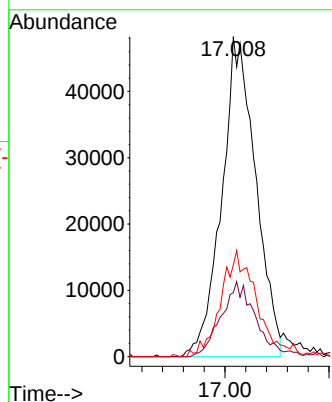
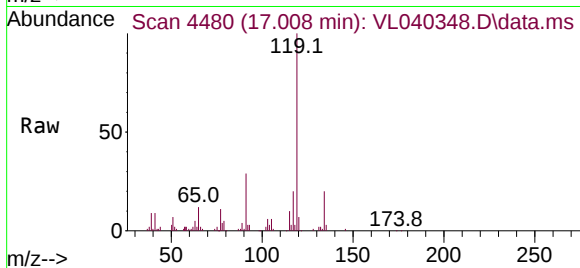
Tgt Ion:119 Resp: 109537

Ion Ratio Lower Upper

119 100

134 24.2 20.2 30.2

91 35.7 25.1 37.7



#70

n-Butylbenzene

Concen: 0.374 ppbv

RT: 17.902 min Scan# 4758

Delta R.T. 0.003 min

Lab File: VL040348.D

Acq: 12 Apr 2023 22:43

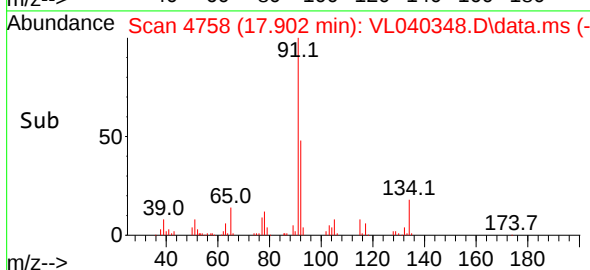
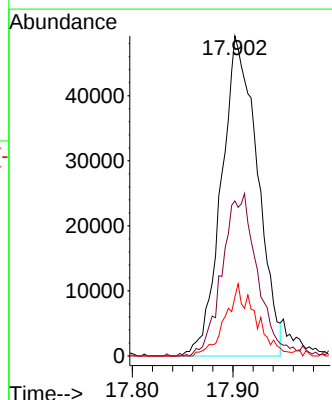
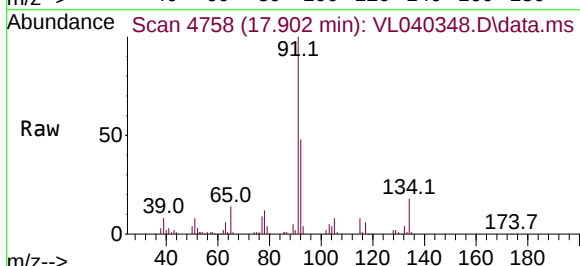
Tgt Ion: 91 Resp: 122030

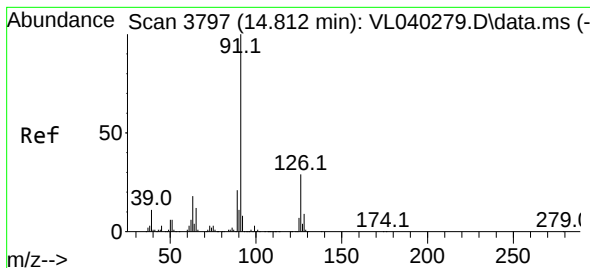
Ion Ratio Lower Upper

91 100

92 50.6 42.9 64.3

134 19.8 16.8 25.2

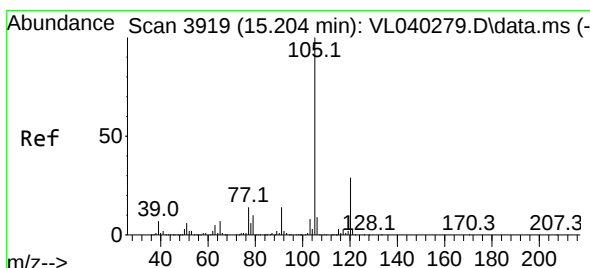
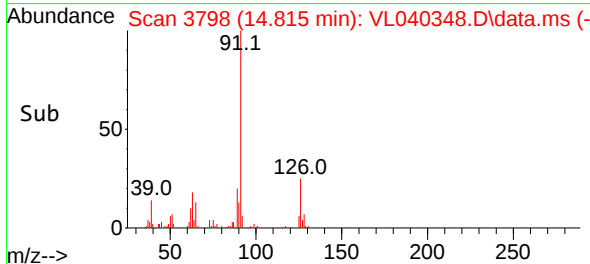
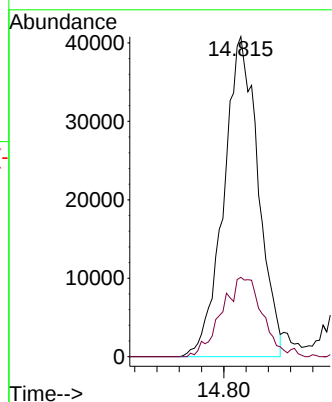
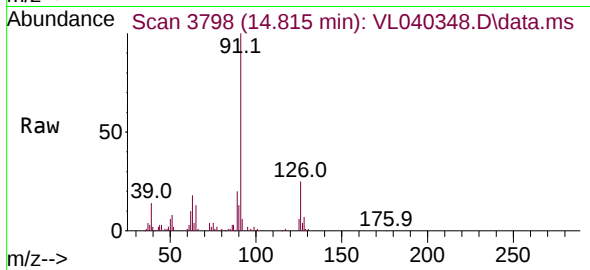




#71  
2-Chlorotoluene  
Concen: 0.373 ppbv  
RT: 14.815 min Scan# 31  
Delta R.T. 0.003 min  
Lab File: VL040348.D  
Acq: 12 Apr 2023 22:43

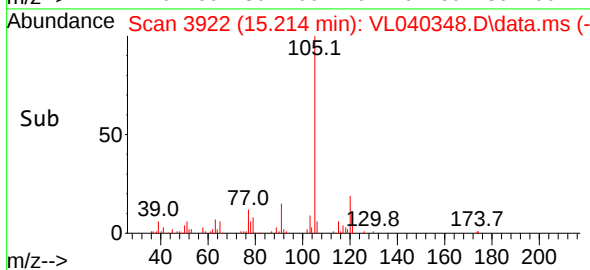
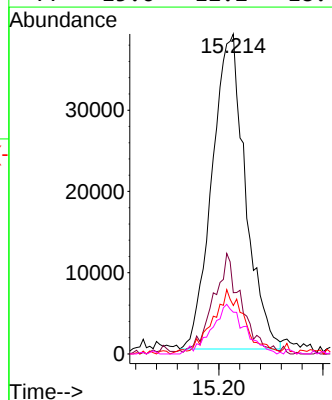
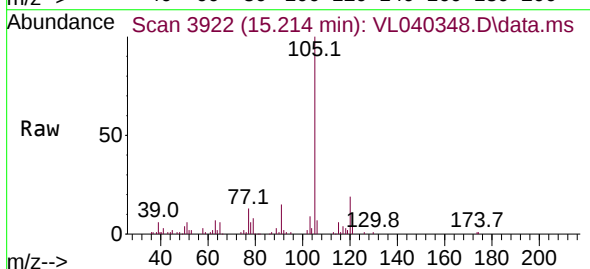
Instrument :  
MSVOA\_L  
ClientSampleId :  
MDL-AIR-03-QT2-2023

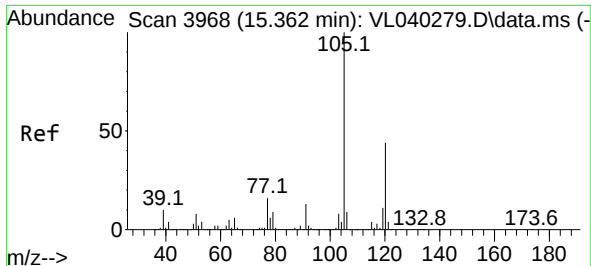
Tgt Ion: 91 Resp: 87665  
Ion Ratio Lower Upper  
91 100  
126 29.6 11.8 47.4



#72  
4-Ethyltoluene  
Concen: 0.364 ppbv  
RT: 15.214 min Scan# 3922  
Delta R.T. 0.010 min  
Lab File: VL040348.D  
Acq: 12 Apr 2023 22:43

Tgt Ion: 105 Resp: 86235  
Ion Ratio Lower Upper  
105 100  
120 27.6 23.7 35.5  
91 21.5 11.6 17.4#  
77 15.6 12.2 18.4

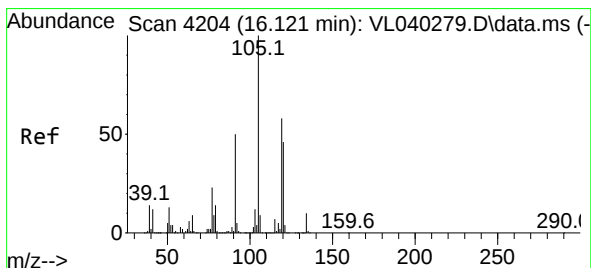
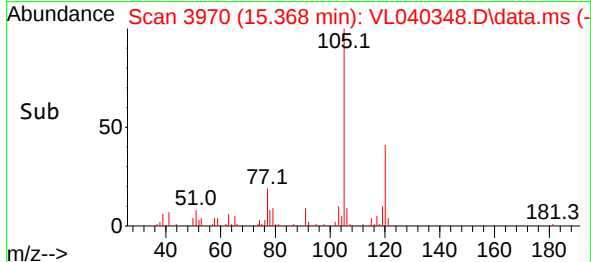
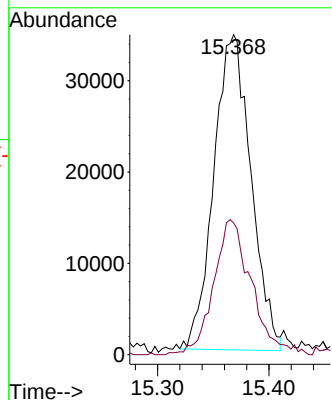
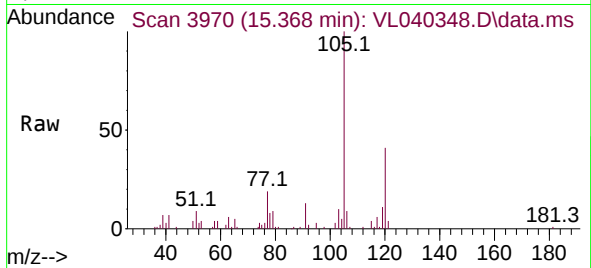




#73  
1,3,5-Trimethylbenzene  
Concen: 0.373 ppbv  
RT: 15.368 min Scan# 3968  
Delta R.T. 0.006 min  
Lab File: VL040348.D  
Acq: 12 Apr 2023 22:43

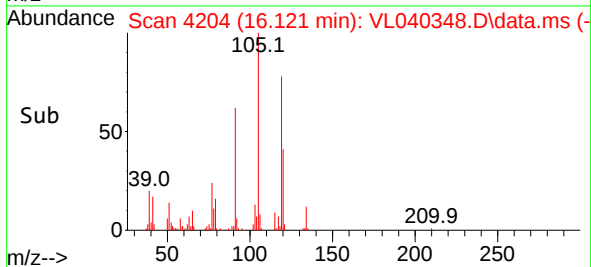
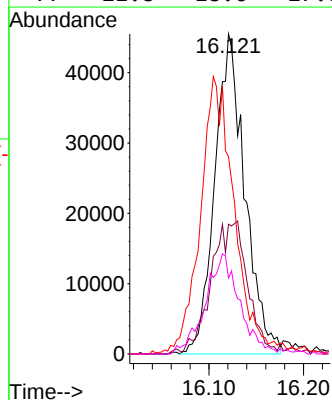
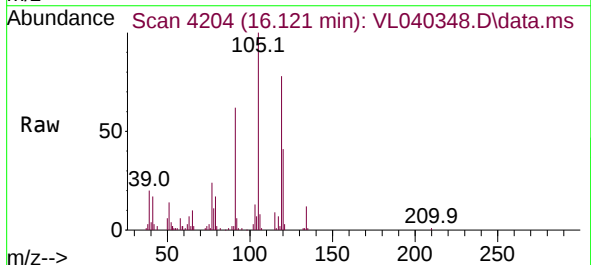
Instrument :  
MSVOA\_L  
ClientSampleId :  
MDL-AIR-03-QT2-2023

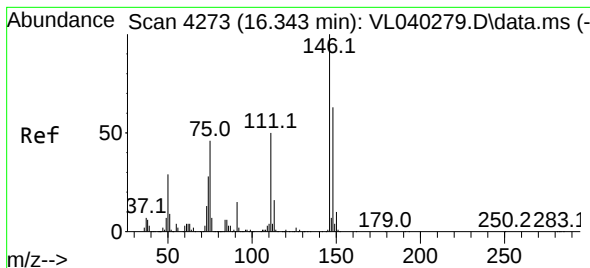
Tgt Ion:105 Resp: 80117  
Ion Ratio Lower Upper  
105 100  
120 41.0 34.9 52.3



#74  
1,2,4-Trimethylbenzene  
Concen: 0.411 ppbv  
RT: 16.121 min Scan# 4204  
Delta R.T. -0.000 min  
Lab File: VL040348.D  
Acq: 12 Apr 2023 22:43

Tgt Ion:105 Resp: 100451  
Ion Ratio Lower Upper  
105 100  
120 43.1 36.6 54.8  
91 58.2 39.9 59.9  
77 21.8 18.6 27.8





#75

1,3-Dichlorobenzene

Concen: 0.236 ppbv

RT: 16.346 min Scan# 4317

Delta R.T. 0.003 min

Lab File: VL040348.D

Acq: 12 Apr 2023 22:43

Instrument :

MSVOA\_L

ClientSampleId :

MDL-AIR-03-QT2-2023

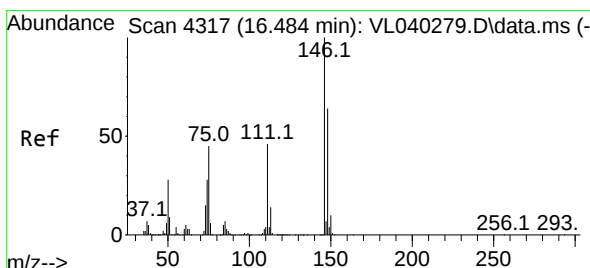
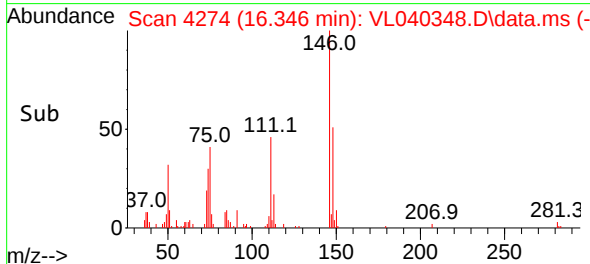
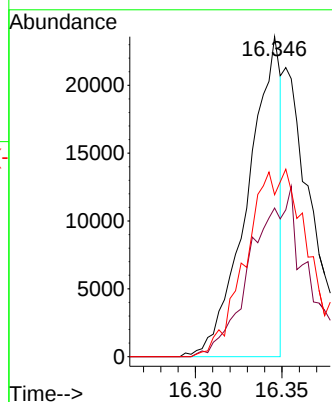
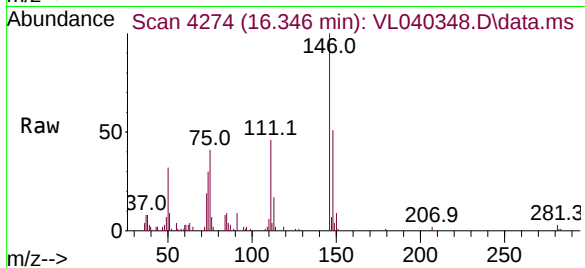
Tgt Ion:146 Resp: 31292

Ion Ratio Lower Upper

146 100

111 0.0 24.3 73.0#

148 0.0 31.9 95.5#



#76

1,4-Dichlorobenzene

Concen: 0.217 ppbv

RT: 16.484 min Scan# 4317

Delta R.T. -0.000 min

Lab File: VL040348.D

Acq: 12 Apr 2023 22:43

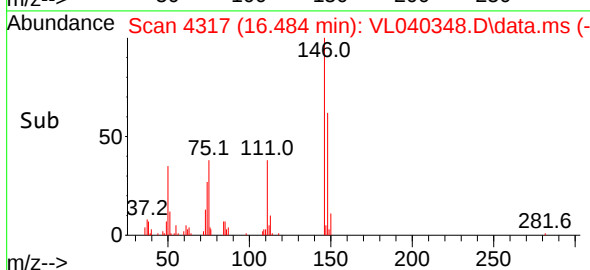
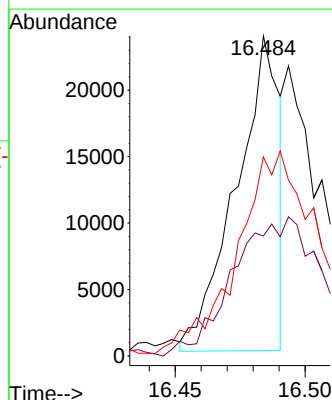
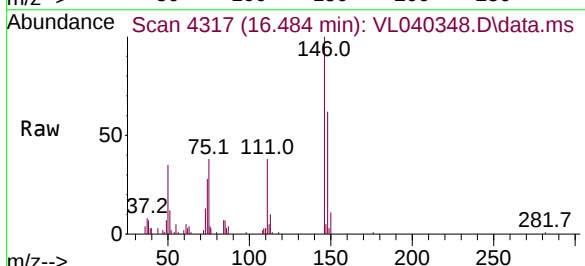
Tgt Ion:146 Resp: 27428

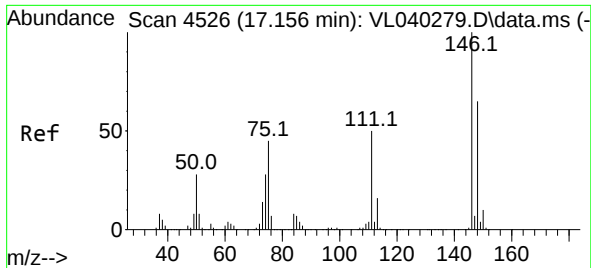
Ion Ratio Lower Upper

146 100

111 0.0 23.8 71.2#

148 0.0 32.5 97.5#

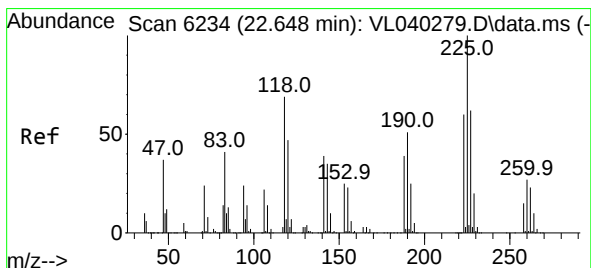
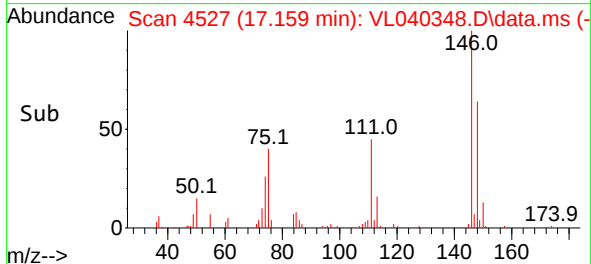
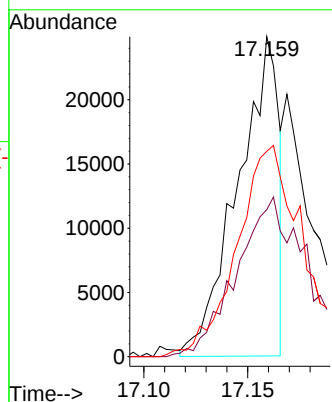
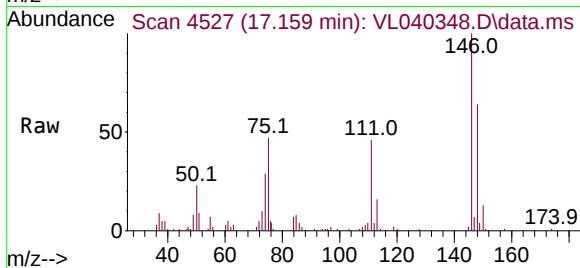




#77  
1,2-Dichlorobenzene  
Concen: 0.267 ppbv  
RT: 17.159 min Scan# 4527  
Delta R.T. 0.003 min  
Lab File: VL040348.D  
Acq: 12 Apr 2023 22:43

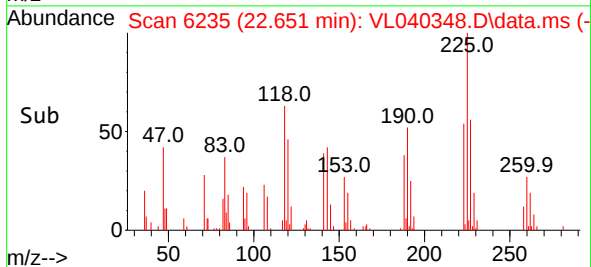
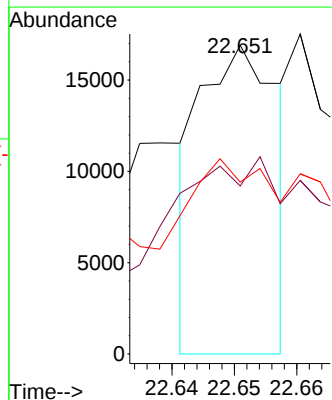
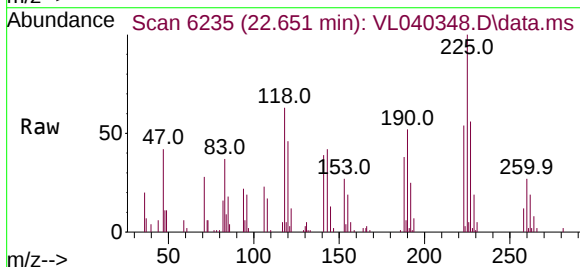
Instrument :  
MSVOA\_L  
ClientSampleId :  
MDL-AIR-03-QT2-2023

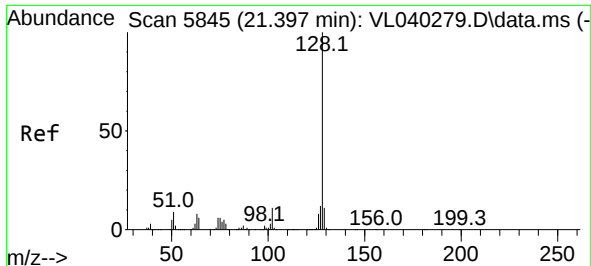
Tgt Ion:146 Resp: 34070  
Ion Ratio Lower Upper  
146 100  
111 91.1 25.2 75.6#  
148 113.6 32.1 96.3#



#78  
Hexachloro-1,3-Butadiene  
Concen: 0.157 ppbv  
RT: 22.651 min Scan# 6235  
Delta R.T. 0.003 min  
Lab File: VL040348.D  
Acq: 12 Apr 2023 22:43

Tgt Ion:225 Resp: 14662  
Ion Ratio Lower Upper  
225 100  
223 206.8 51.0 76.6#  
227 204.3 51.4 77.2#

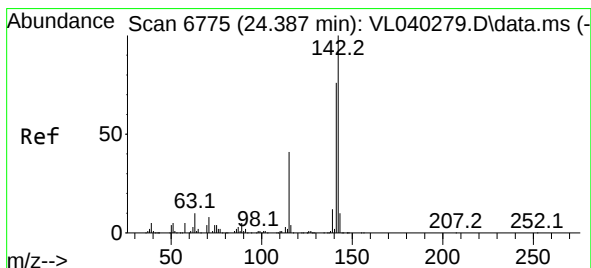
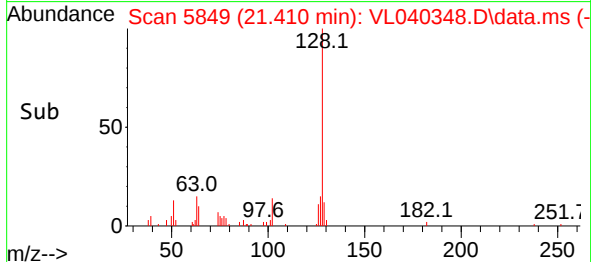
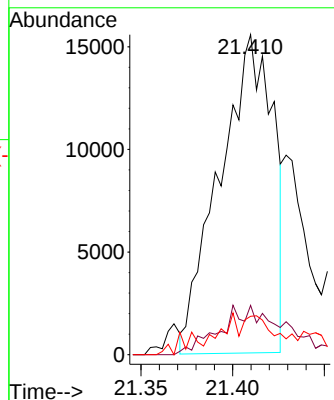
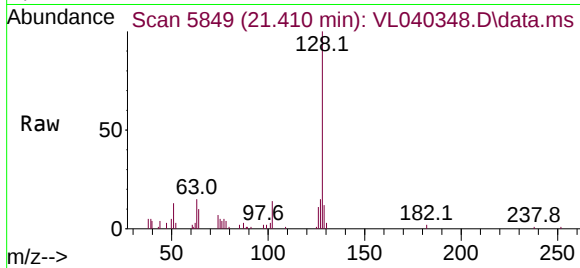




#79  
Naphthalene  
Concen: 0.217 ppbv  
RT: 21.410 min Scan# 5849  
Delta R.T. 0.013 min  
Lab File: VL040348.D  
Acq: 12 Apr 2023 22:43

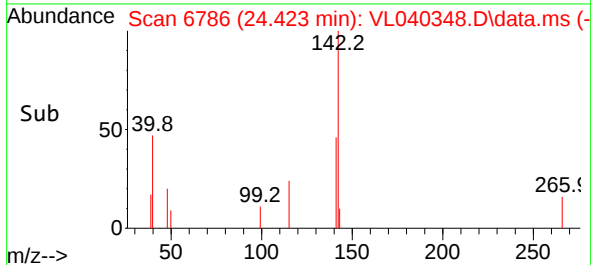
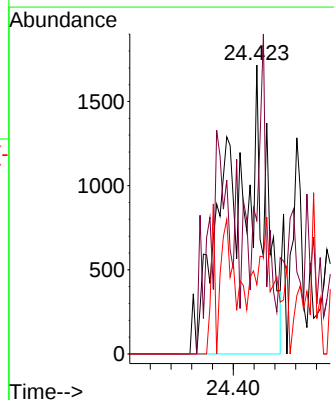
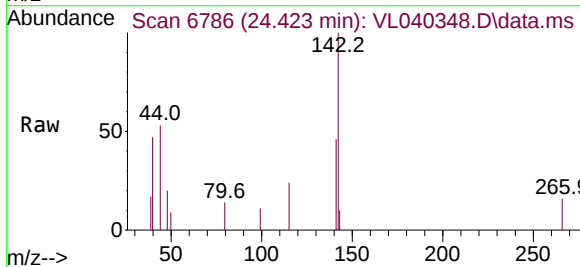
Instrument :  
MSVOA\_L  
ClientSampleId :  
MDL-AIR-03-QT2-2023

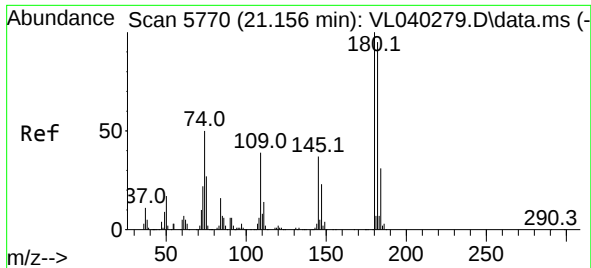
Tgt Ion:128 Resp: 31402  
Ion Ratio Lower Upper  
128 100  
127 15.4 9.6 14.4#  
129 5.8 8.6 13.0#



#80  
Naphthalene,2-methyl-  
Concen: 0.108 ppbv  
RT: 24.423 min Scan# 6786  
Delta R.T. 0.036 min  
Lab File: VL040348.D  
Acq: 12 Apr 2023 22:43

Tgt Ion:142 Resp: 3958  
Ion Ratio Lower Upper  
142 100  
141 71.2 65.5 98.3  
115 0.0 33.5 50.3#





#81

1,2,4-Trichlorobenzene

Concen: 0.189 ppbv

RT: 21.156 min Scan# 51

Delta R.T. -0.000 min

Lab File: VL040348.D

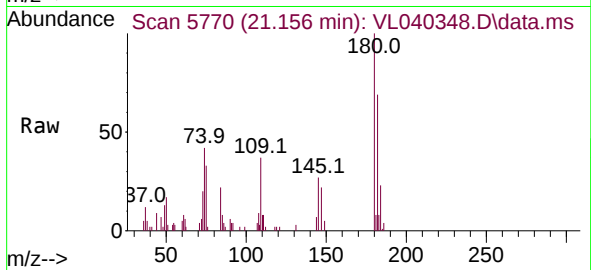
Acq: 12 Apr 2023 22:43

Instrument :

MSVOA\_L

ClientSampleId :

MDL-AIR-03-QT2-2023



Tgt Ion:180 Resp: 16815

Ion Ratio Lower Upper

180 100

182 177.7 76.1 114.1#

184 60.0 24.4 36.6#

