

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL110724\  
 Data File : VL041688.D  
 Acq On : 7 Nov 2024 21:44  
 Operator : SY/MD  
 Sample : P4696-01  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

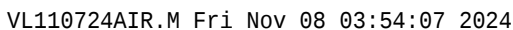
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 IA1

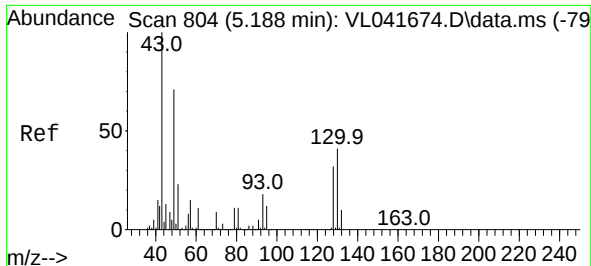
Quant Time: Nov 08 03:53:57 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL110724AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA\_L Fri Aug 26 06:05:16 2022  
 QLast Update : Fri Nov 08 01:01:00 2024  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon  | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|--------|-------|----------|----------|--------|----------|
| -----                         |        |       |          |          |        |          |
| Internal Standards            |        |       |          |          |        |          |
| 1) Bromochloromethane         | 5.182  | 49    | 920081   | 10.000   | ppbv   | 0.00     |
| 33) 1,4-Difluorobenzene       | 6.645  | 114   | 2493857  | 10.000   | ppbv   | 0.00     |
| 55) Chlorobenzene-d5          | 11.455 | 117   | 2294846  | 10.000   | ppbv   | 0.00     |
|                               |        |       |          |          |        |          |
| System Monitoring Compounds   |        |       |          |          |        |          |
| 68) 1-Bromo-4-Fluorobenzene   | 13.767 | 95    | 1689750  | 9.993    | ppbv   | 0.00     |
| Spiked Amount                 | 10.000 | Range | 65 - 135 | Recovery | =      | 99.900%  |
|                               |        |       |          |          |        |          |
| Target Compounds              |        |       |          |          |        | Qvalue   |
| 2) Dichlorodifluoromethane    | 2.726  | 85    | 34120    | 0.205    | ppbv   | 94       |
| 3) Chlorodifluoromethane      | 2.674  | 51    | 83432    | 0.696    | ppbv # | 89       |
| 4) Chloromethane              | 2.812  | 50    | 27853    | 0.439    | ppbv   | 100      |
| 9) Propene                    | 2.703  | 41    | 38769    | 0.742    | ppbv   | 86       |
| 11) Trichlorofluoromethane    | 3.558  | 101   | 30913    | 0.213    | ppbv   | 93       |
| 12) 1,1,2-Trichlorotrifluo... | 4.060  | 101   | 6995     | 0.066    | ppbv   | 98       |
| 13) Ethanol                   | 3.240  | 45    | 2619322  | 818.930  | ppbv   | 99       |
| 15) Acetone                   | 3.459  | 43    | 2121677  | 18.737   | ppbv   | 100      |
| 16) 1,3-Butadiene             | 2.960  | 39    | 2509     | 0.044    | ppbv # | 80       |
| 17) tert-Butyl alcohol        | 3.581  | 59    | 1071625  | 10.785   | ppbv   | 96       |
| 19) Isopropyl Alcohol         | 3.581  | 45    | 18570689 | 343.117  | ppbv # | 95       |
| 20) Methylene Chloride        | 3.928  | 84    | 20096    | 0.482    | ppbv # | 91       |
| 21) Allyl Chloride            | 3.584  | 41    | 2651889  | 37.899   | ppbv # | 76       |
| 23) Vinyl Acetate             | 4.607  | 43    | 12347    | 0.247    | ppbv # | 16       |
| 25) Ethyl Acetate             | 5.198  | 43    | 29969    | 0.128    | ppbv # | 91       |
| 26) Hexane                    | 5.201  | 57    | 6965     | 0.077    | ppbv # | 1        |
| 27) Carbon Disulfide          | 4.121  | 76    | 22947    | 0.227    | ppbv # | 71       |
| 29) Chloroform                | 5.266  | 83    | 48363    | 0.325    | ppbv   | 95       |
| 30) Cyclohexane               | 6.587  | 84    | 2473     | 0.032    | ppbv # | 19       |
| 34) 2-Butanone                | 4.783  | 43    | 50932    | 0.410    | ppbv   | 94       |
| 36) Benzene                   | 6.359  | 78    | 15460    | 0.084    | ppbv # | 80       |
| 39) 1,2-Dichloropropane       | 6.645  | 63    | 613166   | 8.397    | ppbv # | 23       |
| 41) Tetrahydrofuran           | 5.555  | 42    | 6112     | 0.086    | ppbv # | 43       |
| 53) Toluene                   | 9.208  | 91    | 141574   | 0.729    | ppbv   | 97       |
| 64) n-propylbenzene           | 14.905 | 120   | 10110    | 0.116    | ppbv # | 1        |
| 65) tert-Butylbenzene         | 16.101 | 119   | 35366    | 0.119    | ppbv # | 52       |
| 71) 2-Chlorotoluene           | 14.667 | 91    | 13984    | 0.058    | ppbv # | 43       |
| 72) 4-Ethyltoluene            | 15.182 | 105   | 115840   | 0.464    | ppbv # | 97       |
| 73) 1,3,5-Trimethylbenzene    | 15.339 | 105   | 40230    | 0.184    | ppbv   | 97       |
| 74) 1,2,4-Trimethylbenzene    | 16.098 | 105   | 306589   | 1.204    | ppbv # | 66       |
| -----                         |        |       |          |          |        |          |

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

Quant Time: Nov 08 03:53:57 2024  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL110724AIR.M  
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_LFri Aug 26 06:05:16 2022  
QLast Update : Fri Nov 08 01:01:00 2024  
Response via : Initial Calibration

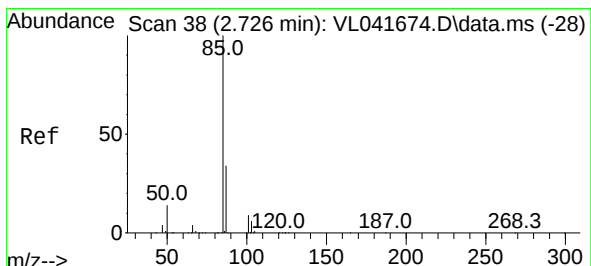
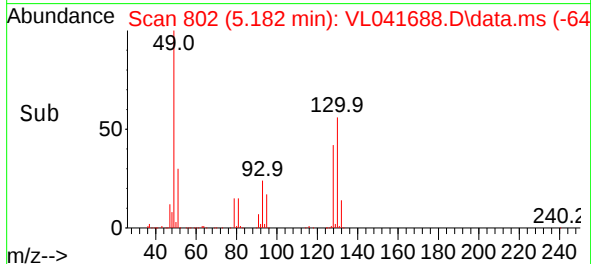
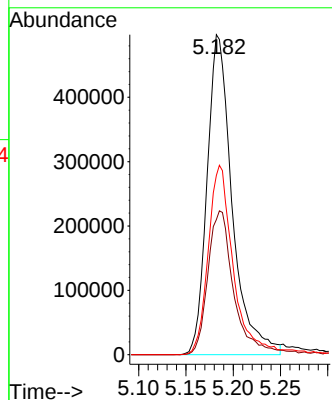
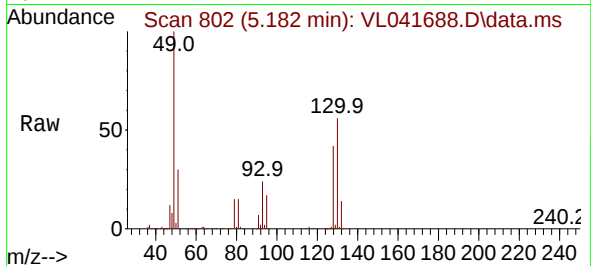




#1  
Bromochloromethane  
Concen: 10.000 ppbv  
RT: 5.182 min Scan# 804  
Delta R.T. -0.006 min  
Lab File: VL041688.D  
Acq: 7 Nov 2024 21:44

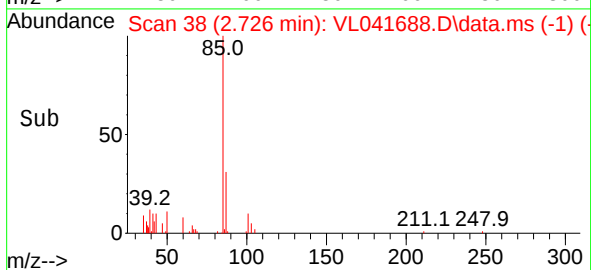
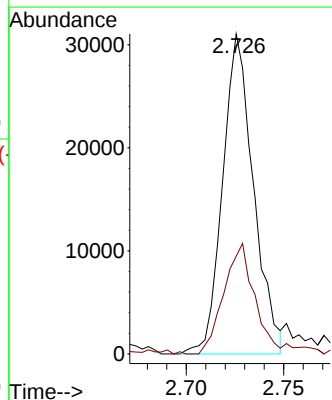
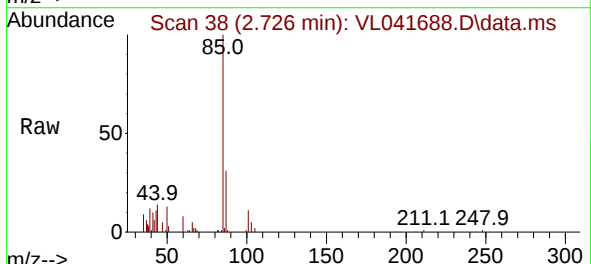
Instrument :  
MSVOA\_L  
ClientSampleId :  
IA1

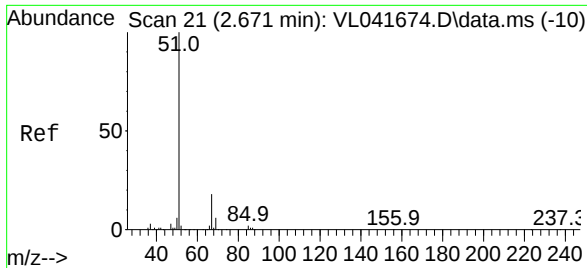
Tgt Ion: 49 Resp: 920081  
Ion Ratio Lower Upper  
49 100  
128 47.7 23.8 71.2  
130 61.0 30.1 90.5



#2  
Dichlorodifluoromethane  
Concen: 0.205 ppbv  
RT: 2.726 min Scan# 38  
Delta R.T. 0.000 min  
Lab File: VL041688.D  
Acq: 7 Nov 2024 21:44

Tgt Ion: 85 Resp: 34120  
Ion Ratio Lower Upper  
85 100  
87 29.8 26.8 40.2

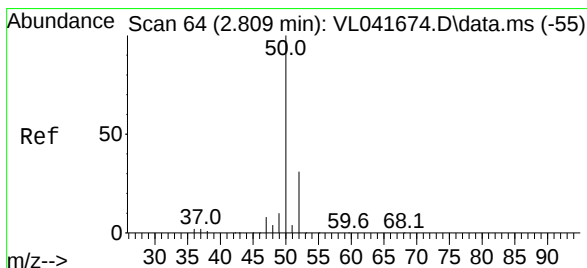
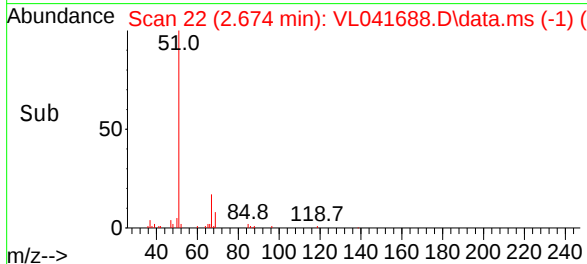
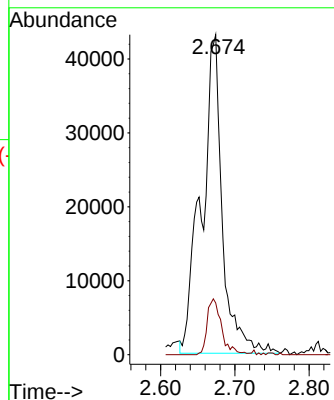
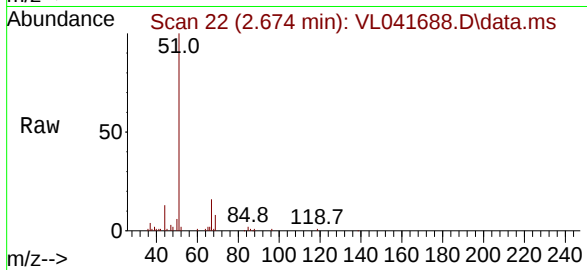




#3  
Chlorodifluoromethane  
Concen: 0.696 ppbv  
RT: 2.674 min Scan# 21  
Delta R.T. 0.003 min  
Lab File: VL041688.D  
Acq: 7 Nov 2024 21:44

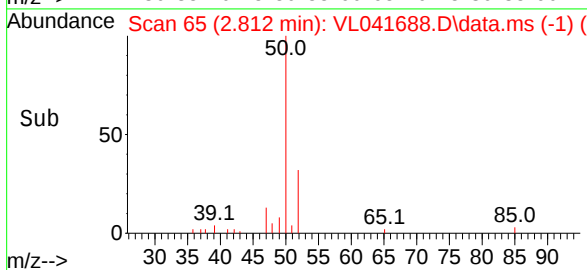
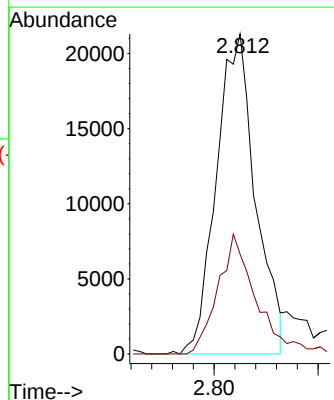
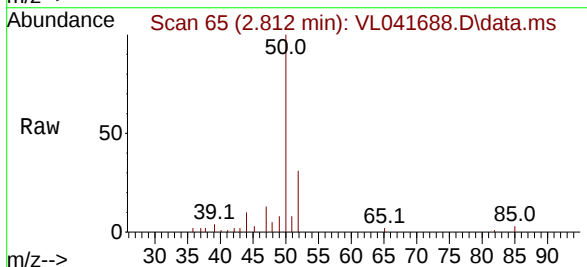
Instrument :  
MSVOA\_L  
ClientSampleId :  
IA1

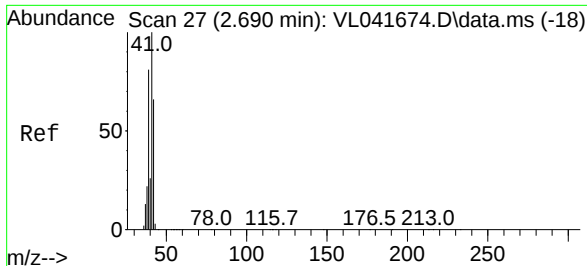
Tgt Ion: 51 Resp: 83432  
Ion Ratio Lower Upper  
51 100  
67 12.5 13.9 20.9#



#4  
Chloromethane  
Concen: 0.439 ppbv  
RT: 2.812 min Scan# 65  
Delta R.T. 0.003 min  
Lab File: VL041688.D  
Acq: 7 Nov 2024 21:44

Tgt Ion: 50 Resp: 27853  
Ion Ratio Lower Upper  
50 100  
52 31.2 24.9 37.3





#9

Propene

Concen: 0.742 ppbv

RT: 2.703 min Scan# 31

Delta R.T. 0.013 min

Lab File: VL041688.D

Acq: 7 Nov 2024 21:44

Instrument :

MSVOA\_L

ClientSampleId :

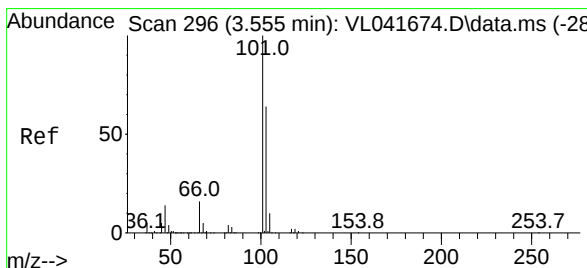
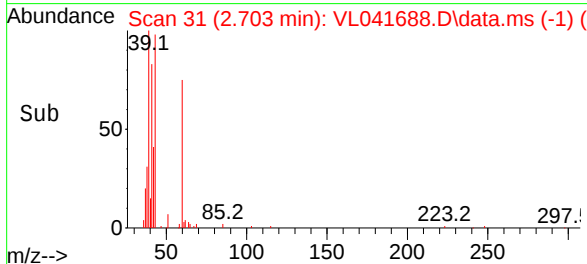
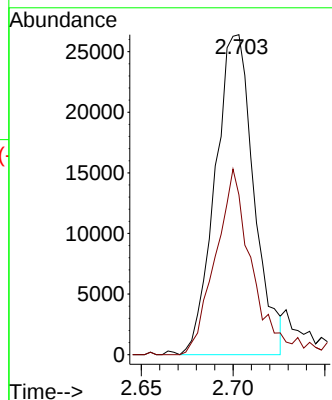
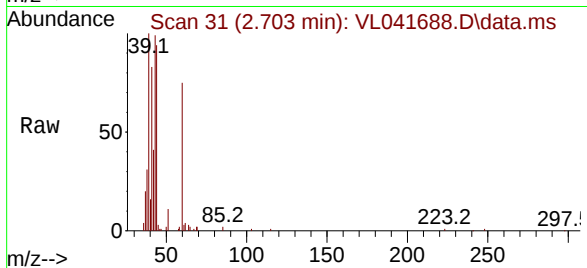
IA1

Tgt Ion: 41 Resp: 38769

Ion Ratio Lower Upper

41 100

42 57.4 55.0 82.4



#11

Trichlorofluoromethane

Concen: 0.213 ppbv

RT: 3.558 min Scan# 297

Delta R.T. 0.003 min

Lab File: VL041688.D

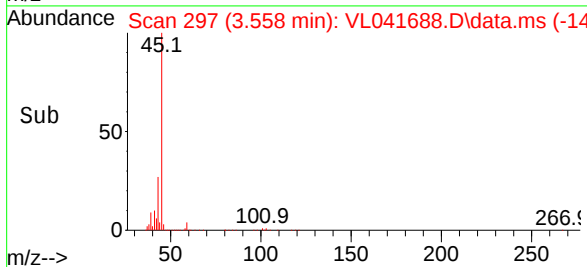
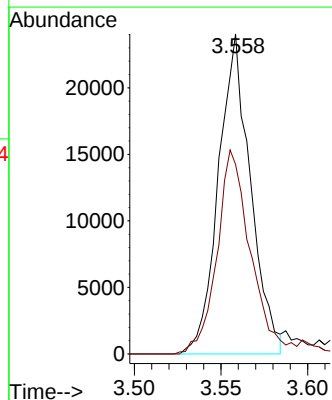
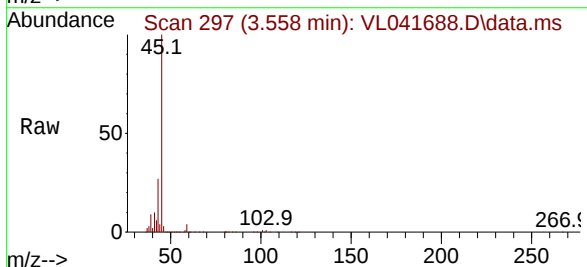
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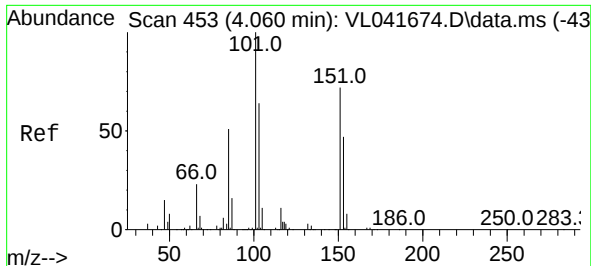
Tgt Ion: 101 Resp: 30913

Ion Ratio Lower Upper

101 100

103 58.6 51.0 76.6

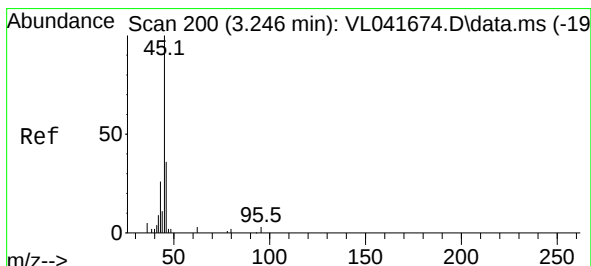
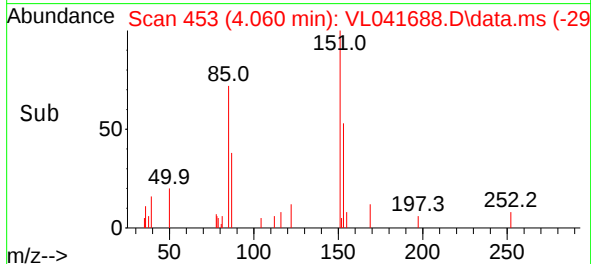
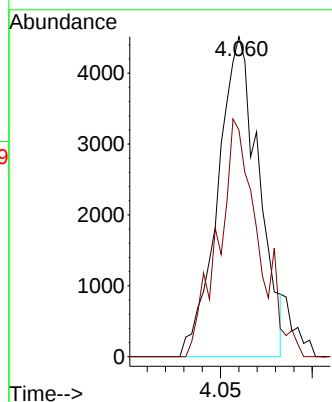
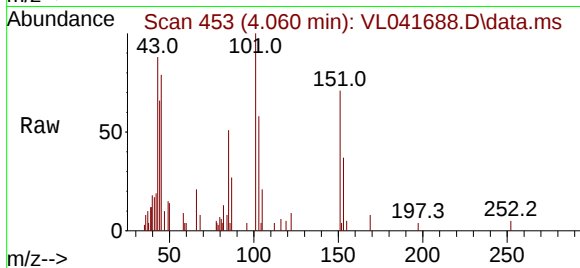




#12  
1,1,2-Trichlorotrifluoroethane  
Concen: 0.066 ppbv  
RT: 4.060 min Scan# 41  
Delta R.T. 0.000 min  
Lab File: VL041688.D  
Acq: 7 Nov 2024 21:44

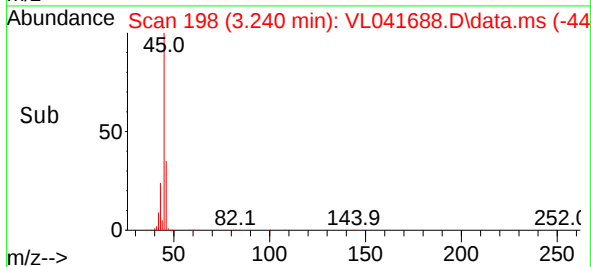
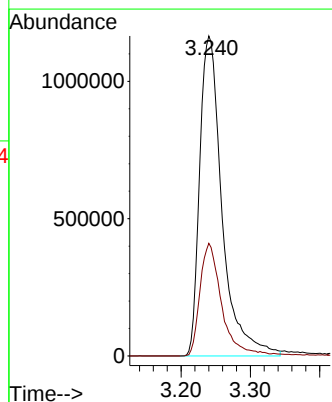
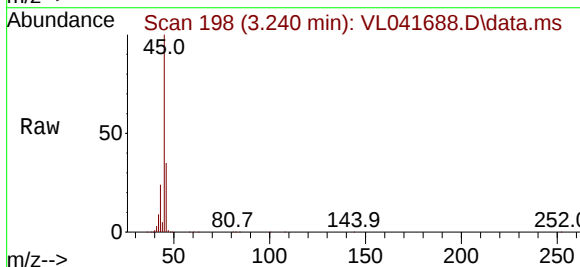
Instrument :  
MSVOA\_L  
ClientSampleId :  
IA1

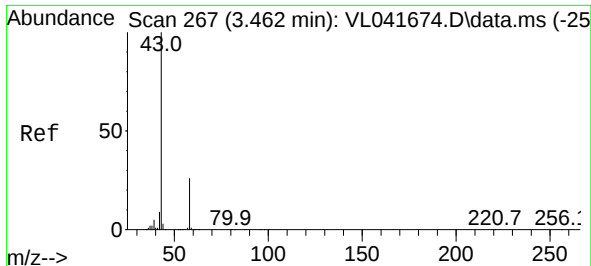
Tgt Ion:101 Resp: 6995  
Ion Ratio Lower Upper  
101 100  
151 72.6 59.1 88.7



#13  
Ethanol  
Concen: 818.930 ppbv  
RT: 3.240 min Scan# 198  
Delta R.T. -0.006 min  
Lab File: VL041688.D  
Acq: 7 Nov 2024 21:44

Tgt Ion: 45 Resp: 2619322  
Ion Ratio Lower Upper  
45 100  
46 35.0 13.8 55.2





#15

Acetone

Concen: 18.737 ppbv

RT: 3.459 min Scan# 2

Delta R.T. -0.003 min

Lab File: VL041688.D

Acq: 7 Nov 2024 21:44

Instrument :

MSVOA\_L

ClientSampleId :

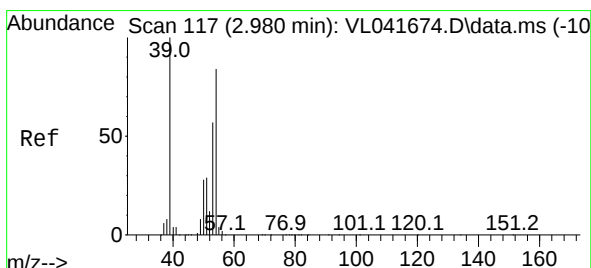
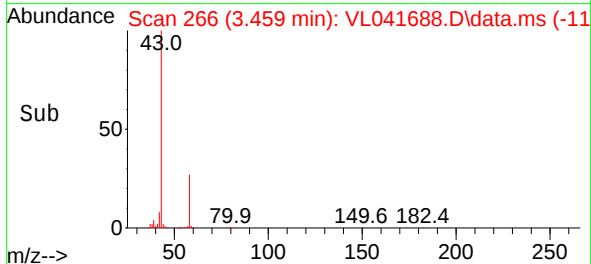
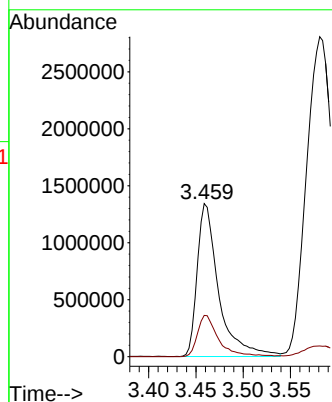
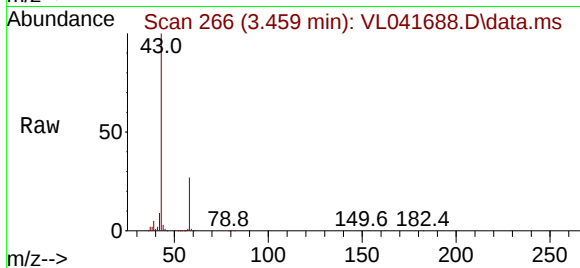
IA1

Tgt Ion: 43 Resp: 2121677

Ion Ratio Lower Upper

43 100

58 26.7 21.4 32.0



#16

1,3-Butadiene

Concen: 0.044 ppbv

RT: 2.960 min Scan# 111

Delta R.T. -0.019 min

Lab File: VL041688.D

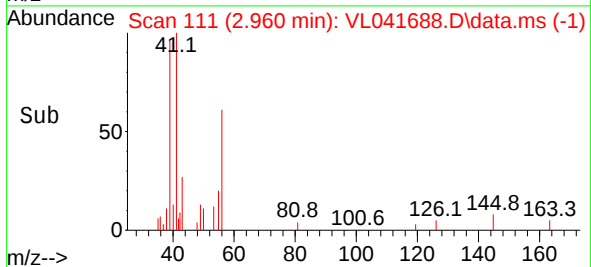
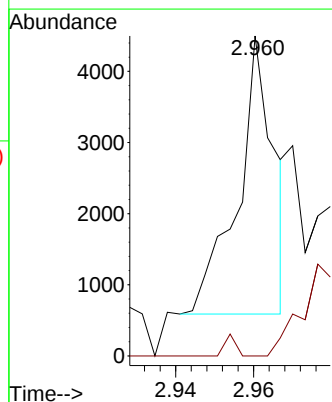
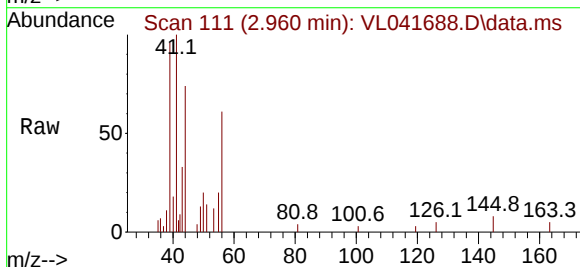
Acq: 7 Nov 2024 21:44

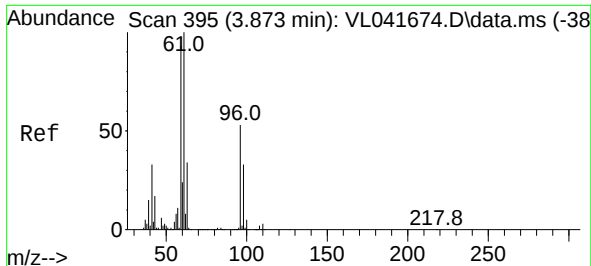
Tgt Ion: 39 Resp: 2509

Ion Ratio Lower Upper

39 100

54 93.5 61.3 91.9#





#17

tert-Butyl alcohol

Concen: 10.785 ppbv

RT: 3.581 min Scan# 304

Delta R.T. -0.292 min

Lab File: VL041688.D

Acq: 7 Nov 2024 21:44

Instrument :

MSVOA\_L

ClientSampleId :

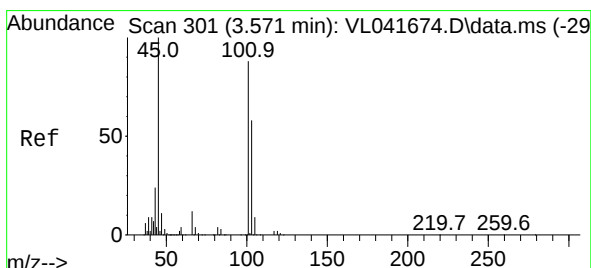
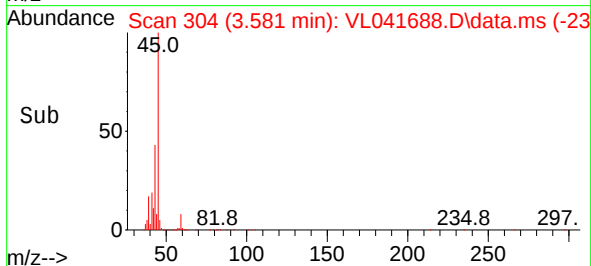
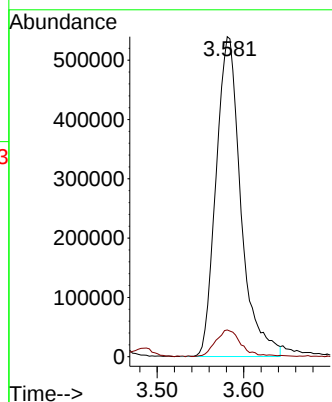
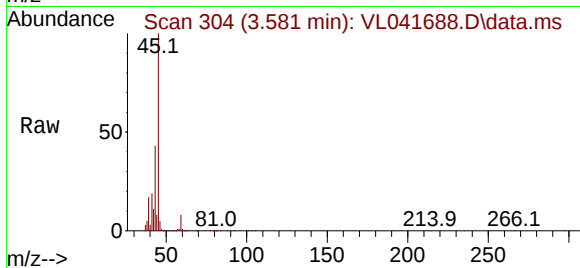
IA1

Tgt Ion: 59 Resp: 1071625

Ion Ratio Lower Upper

59 100

57 9.0 8.5 12.7



#19

Isopropyl Alcohol

Concen: 343.117 ppbv

RT: 3.581 min Scan# 304

Delta R.T. 0.010 min

Lab File: VL041688.D

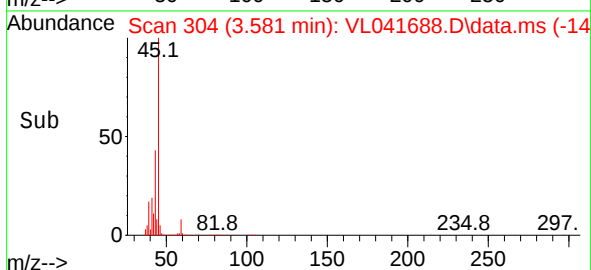
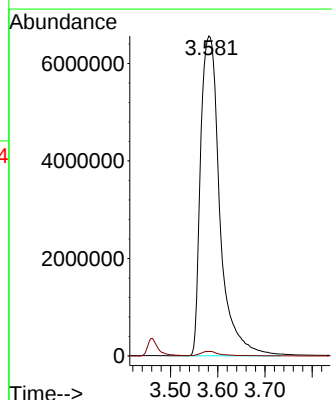
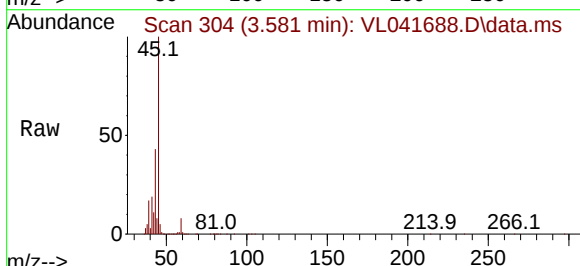
Acq: 7 Nov 2024 21:44

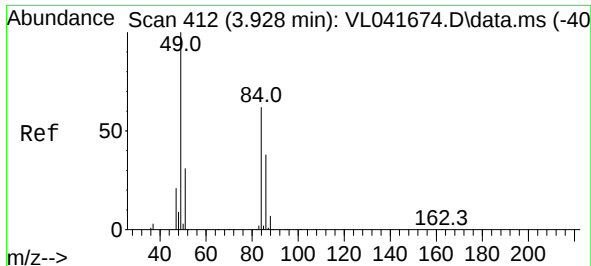
Tgt Ion: 45 Resp:18570689

Ion Ratio Lower Upper

45 100

58 1.5 2.5 3.7#

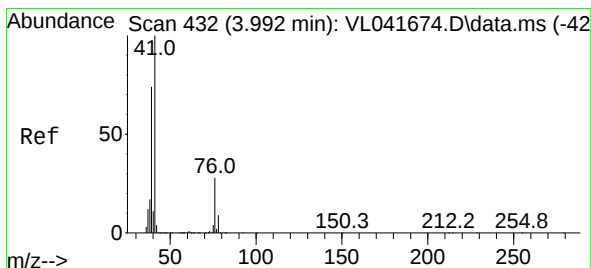
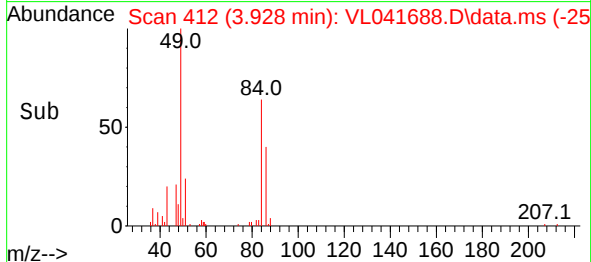
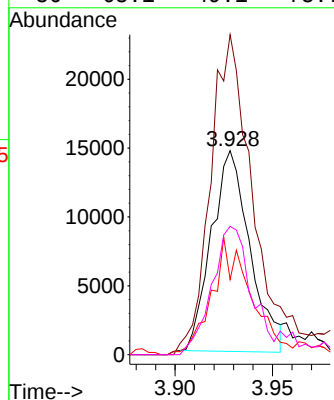
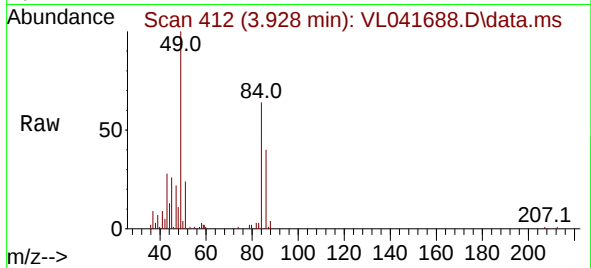




#20  
Methylene Chloride  
Concen: 0.482 ppbv  
RT: 3.928 min Scan# 412  
Delta R.T. 0.000 min  
Lab File: VL041688.D  
Acq: 7 Nov 2024 21:44

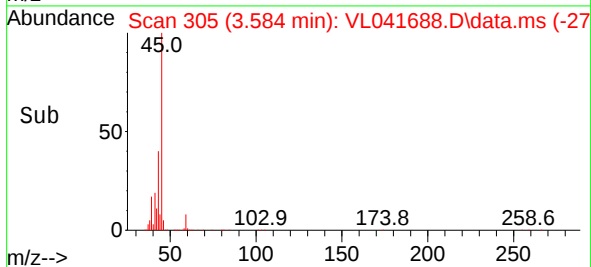
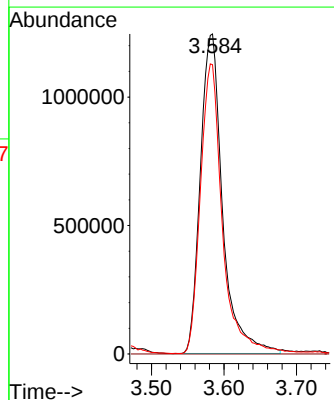
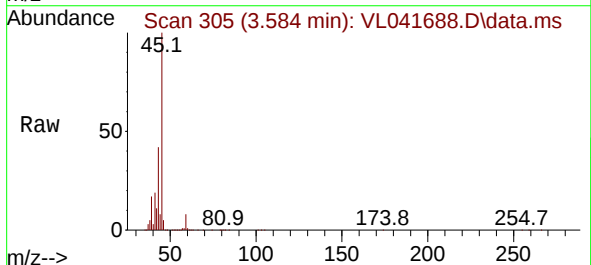
Instrument :  
MSVOA\_L  
ClientSampleId :  
IA1

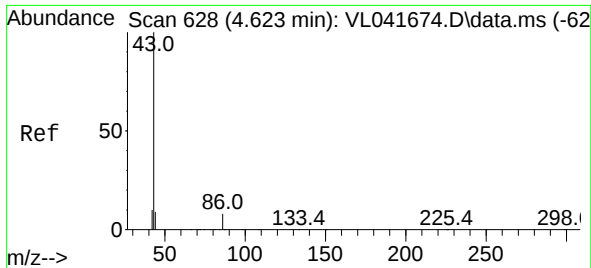
Tgt Ion: 84 Resp: 20096  
Ion Ratio Lower Upper  
84 100  
49 152.1 129.7 194.5  
51 36.1 39.8 59.6#  
86 63.1 49.1 73.7



#21  
Allyl Chloride  
Concen: 37.899 ppbv  
RT: 3.584 min Scan# 305  
Delta R.T. -0.408 min  
Lab File: VL041688.D  
Acq: 7 Nov 2024 21:44

Tgt Ion: 41 Resp: 2651889  
Ion Ratio Lower Upper  
41 100  
76 0.0 23.5 35.3#  
39 90.0 63.0 94.4



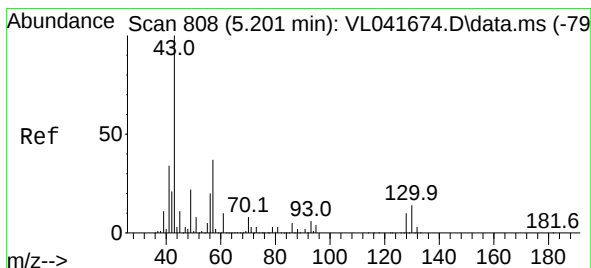
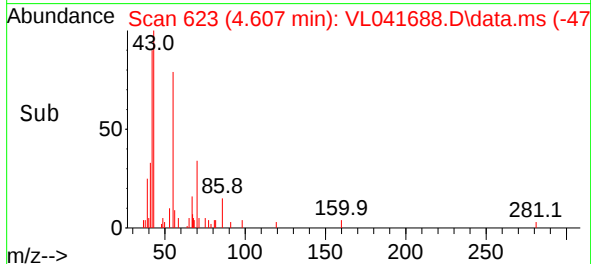
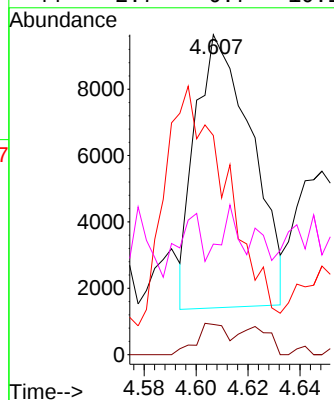
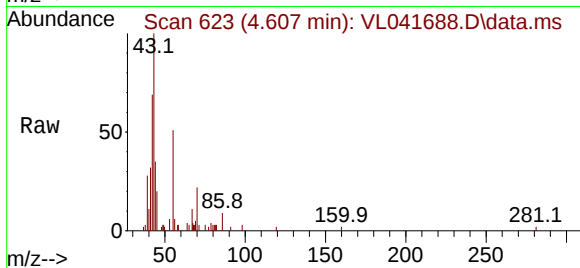


#23  
 Vinyl Acetate  
 Concen: 0.247 ppbv  
 RT: 4.607 min Scan# 61  
 Delta R.T. -0.016 min  
 Lab File: VL041688.D  
 Acq: 7 Nov 2024 21:44

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 IA1

Tgt Ion: 43 Resp: 12347

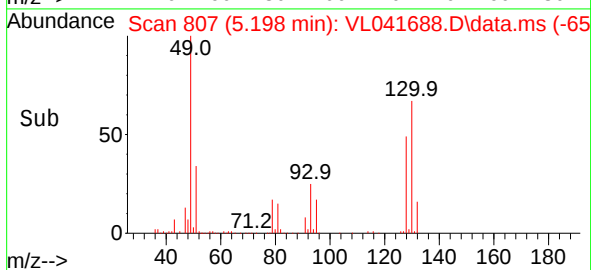
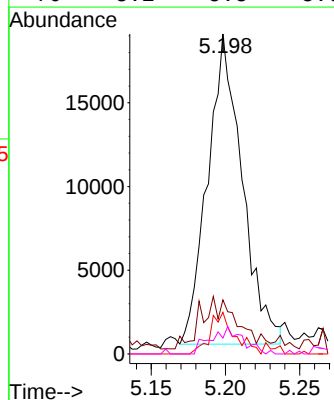
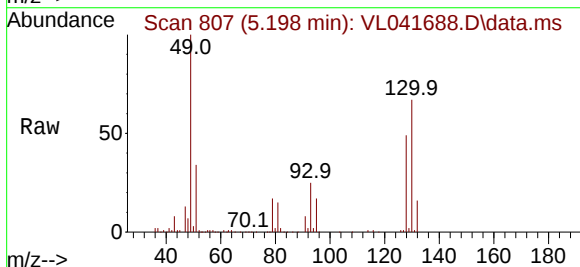
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 43  | 100   |       |       |
| 86  | 13.2  | 5.3   | 7.9#  |
| 42  | 77.7  | 8.5   | 12.7# |
| 44  | 2.7   | 6.7   | 10.1# |

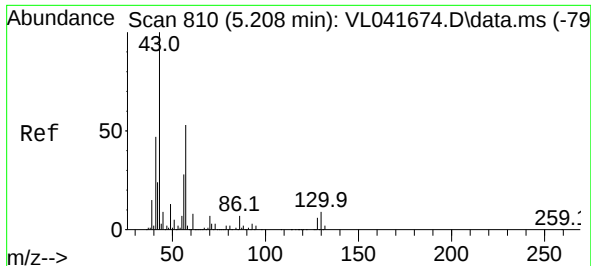


#25  
 Ethyl Acetate  
 Concen: 0.128 ppbv  
 RT: 5.198 min Scan# 807  
 Delta R.T. -0.003 min  
 Lab File: VL041688.D  
 Acq: 7 Nov 2024 21:44

Tgt Ion: 43 Resp: 29969

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 43  | 100   |       |       |
| 45  | 18.8  | 8.6   | 13.0# |
| 61  | 10.6  | 8.4   | 12.6  |
| 70  | 8.2   | 5.8   | 8.6   |





#26

Hexane

Concen: 0.077 ppbv

RT: 5.201 min Scan# 810

Delta R.T. -0.006 min

Lab File: VL041688.D

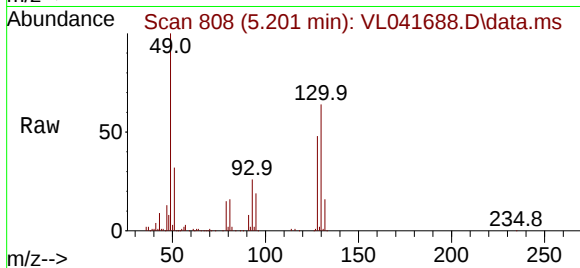
Acq: 7 Nov 2024 21:44

Instrument :

MSVOA\_L

ClientSampleId :

IA1



Tgt Ion: 57 Resp: 6965

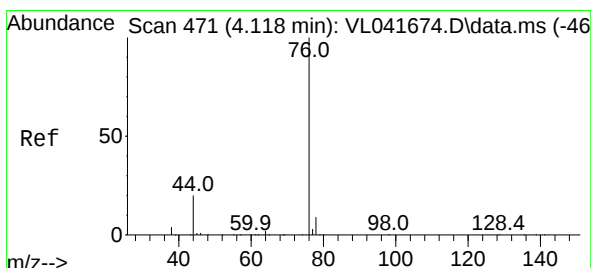
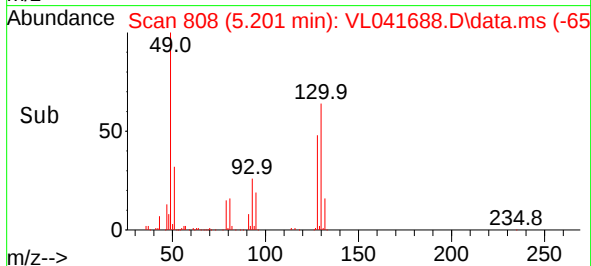
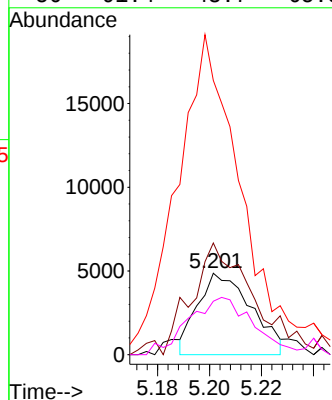
Ion Ratio Lower Upper

57 100

41 186.2 76.1 114.1#

43 533.6 207.0 310.6#

56 91.4 43.7 65.5#



#27

Carbon Disulfide

Concen: 0.227 ppbv

RT: 4.121 min Scan# 472

Delta R.T. 0.003 min

Lab File: VL041688.D

Acq: 7 Nov 2024 21:44

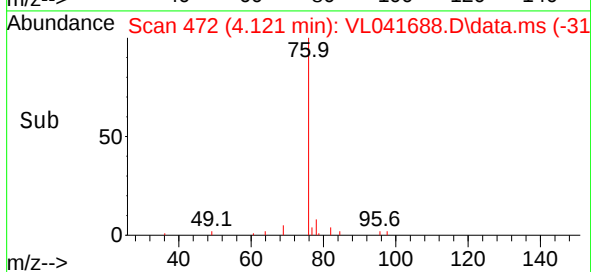
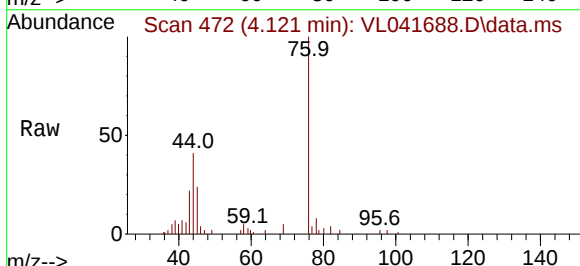
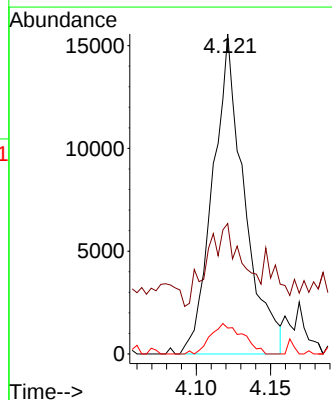
Tgt Ion: 76 Resp: 22947

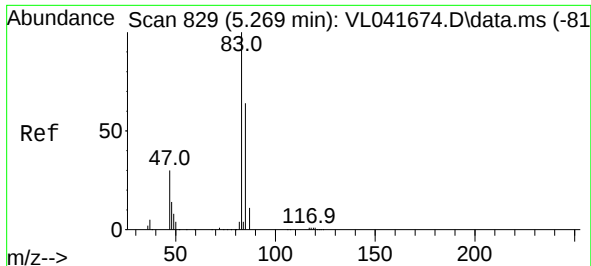
Ion Ratio Lower Upper

76 100

44 39.3 15.8 23.8#

78 9.8 7.5 11.3





#29

Chloroform

Concen: 0.325 ppbv

RT: 5.266 min Scan# 81

Delta R.T. -0.003 min

Lab File: VL041688.D

Acq: 7 Nov 2024 21:44

Instrument :

MSVOA\_L

ClientSampleId :

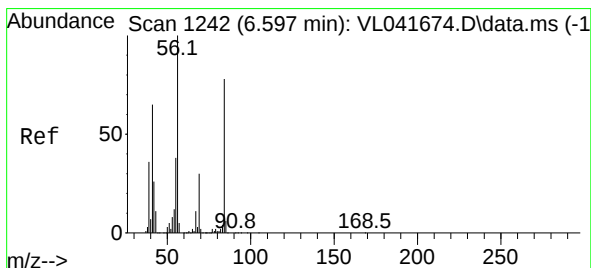
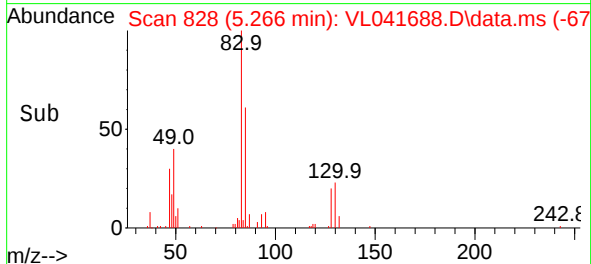
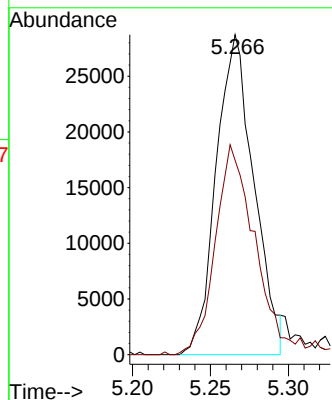
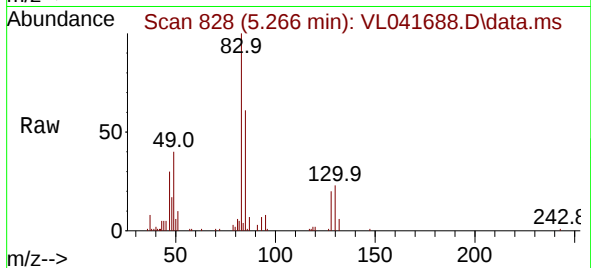
IA1

Tgt Ion: 83 Resp: 48363

Ion Ratio Lower Upper

83 100

85 60.1 51.1 76.7



#30

Cyclohexane

Concen: 0.032 ppbv

RT: 6.587 min Scan# 1239

Delta R.T. -0.010 min

Lab File: VL041688.D

Acq: 7 Nov 2024 21:44

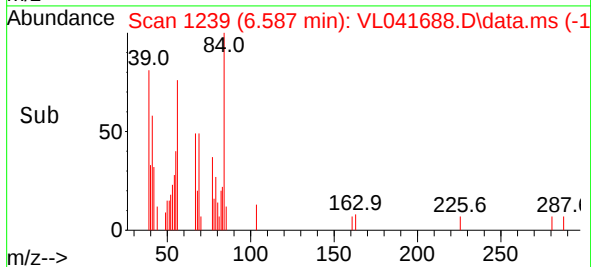
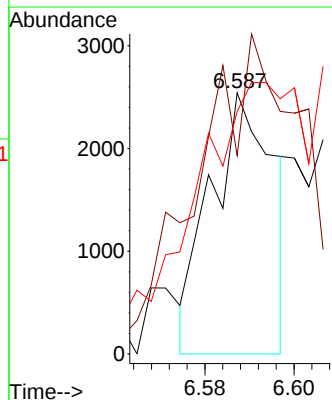
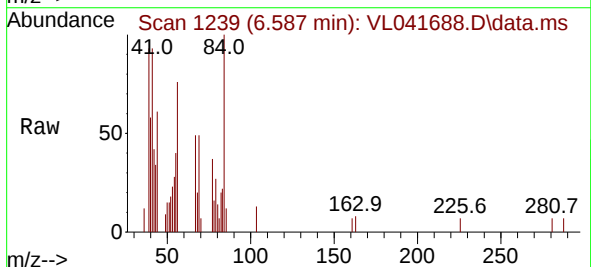
Tgt Ion: 84 Resp: 2473

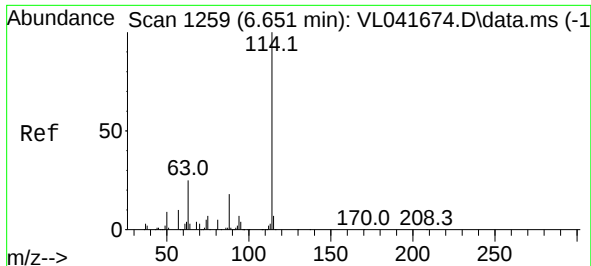
Ion Ratio Lower Upper

84 100

56 226.4 110.8 166.2#

41 0.0 70.0 105.0#





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 6.645 min Scan# 11

Delta R.T. -0.006 min

Lab File: VL041688.D

Acq: 7 Nov 2024 21:44

Instrument :

MSVOA\_L

ClientSampleId :

IA1

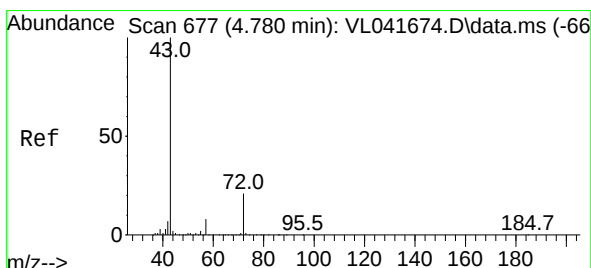
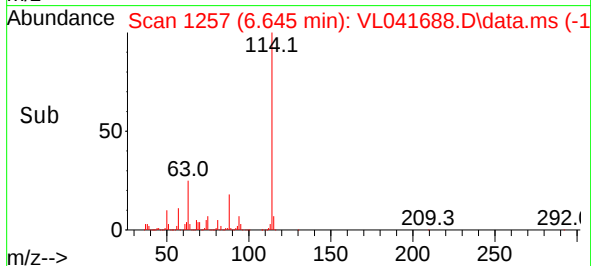
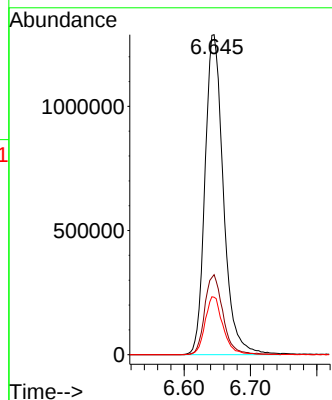
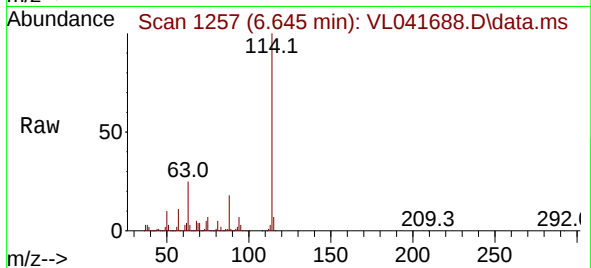
Tgt Ion:114 Resp: 2493857

Ion Ratio Lower Upper

114 100

63 24.9 20.3 30.5

88 17.6 14.2 21.4



#34

2-Butanone

Concen: 0.410 ppbv

RT: 4.783 min Scan# 678

Delta R.T. 0.003 min

Lab File: VL041688.D

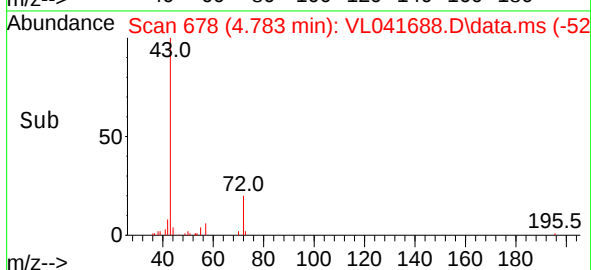
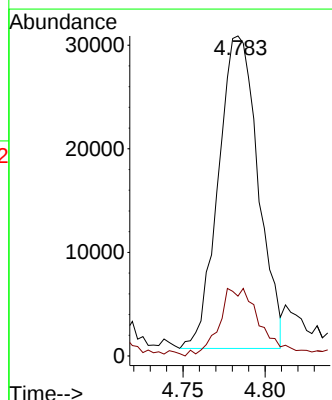
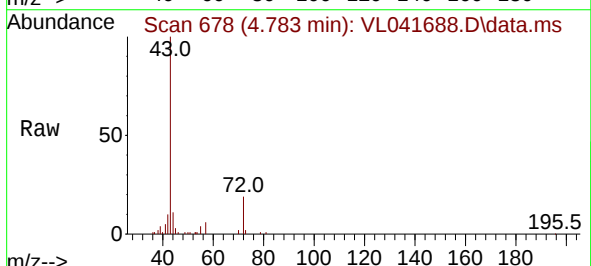
Acq: 7 Nov 2024 21:44

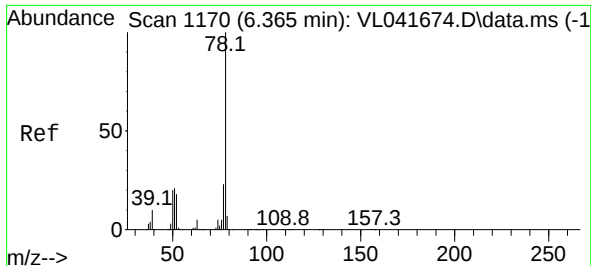
Tgt Ion: 43 Resp: 50932

Ion Ratio Lower Upper

43 100

72 24.7 17.4 26.0

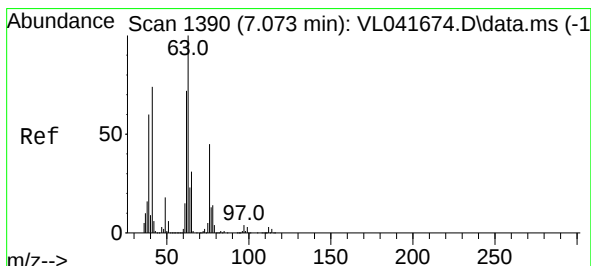
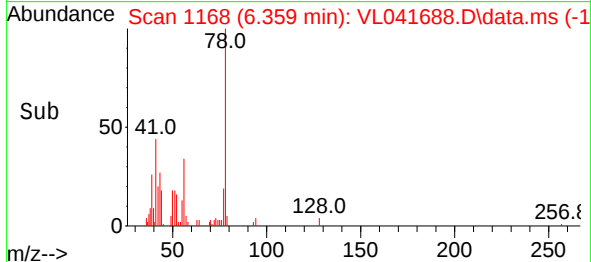
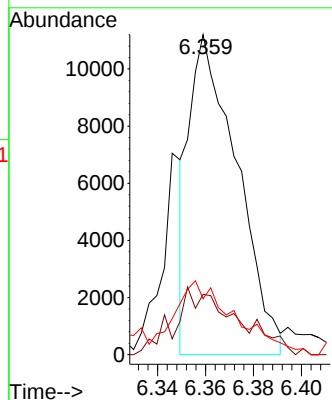
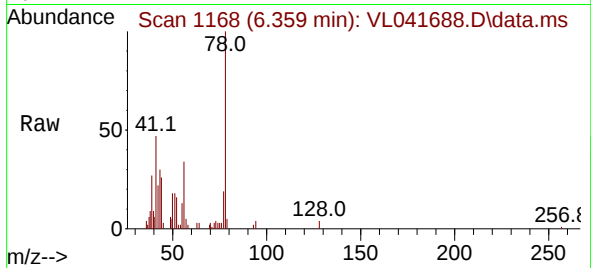




#36  
Benzene  
Concen: 0.084 ppbv  
RT: 6.359 min Scan# 1170  
Delta R.T. -0.006 min  
Lab File: VL041688.D  
Acq: 7 Nov 2024 21:44

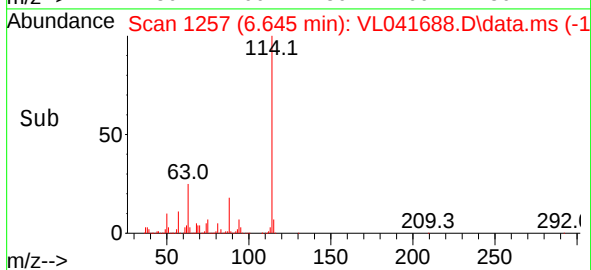
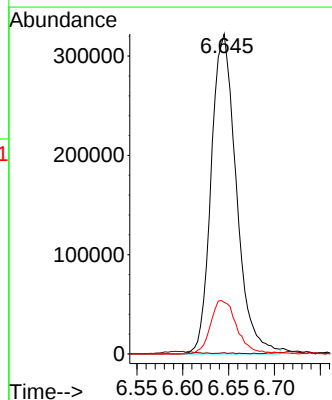
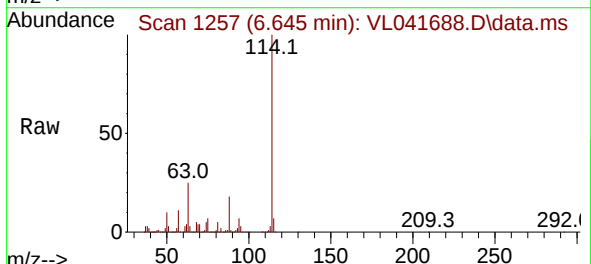
Instrument :  
MSVOA\_L  
ClientSampleId :  
IA1

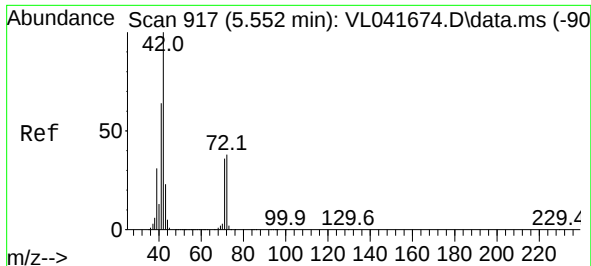
Tgt Ion: 78 Resp: 15460  
Ion Ratio Lower Upper  
78 100  
77 14.2 18.5 27.7#  
50 9.6 15.6 23.4#



#39  
1,2-Dichloropropane  
Concen: 8.397 ppbv  
RT: 6.645 min Scan# 1257  
Delta R.T. -0.428 min  
Lab File: VL041688.D  
Acq: 7 Nov 2024 21:44

Tgt Ion: 63 Resp: 613166  
Ion Ratio Lower Upper  
63 100  
41 0.0 59.1 88.7#  
62 16.2 57.7 86.5#





#41

Tetrahydrofuran

Concen: 0.086 ppbv

RT: 5.555 min Scan# 917

Delta R.T. 0.003 min

Lab File: VL041688.D

Acq: 7 Nov 2024 21:44

Instrument :

MSVOA\_L

ClientSampleId :

IA1

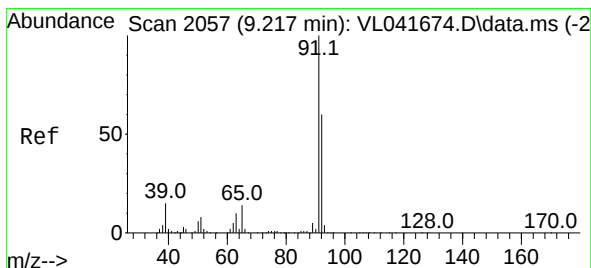
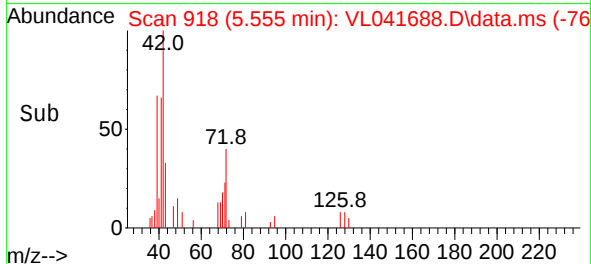
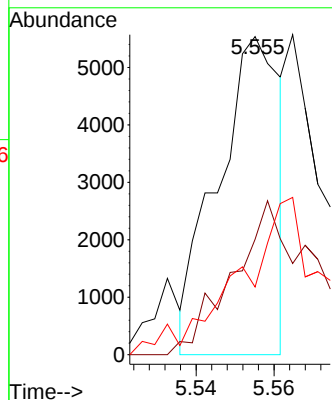
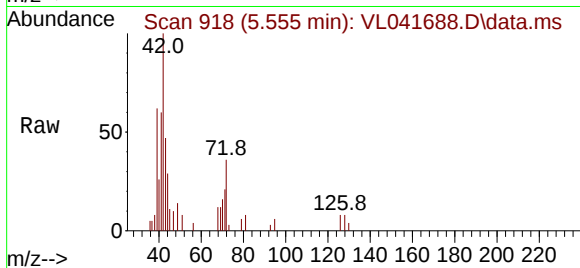
Tgt Ion: 42 Resp: 6112

Ion Ratio Lower Upper

42 100

72 68.5 29.8 44.6#

71 0.0 29.4 44.2#



#53

Toluene

Concen: 0.729 ppbv

RT: 9.208 min Scan# 2054

Delta R.T. -0.010 min

Lab File: VL041688.D

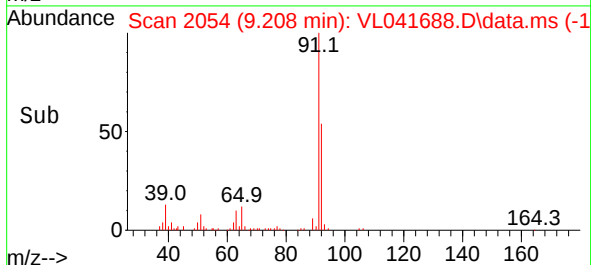
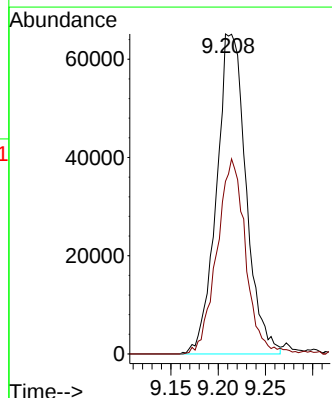
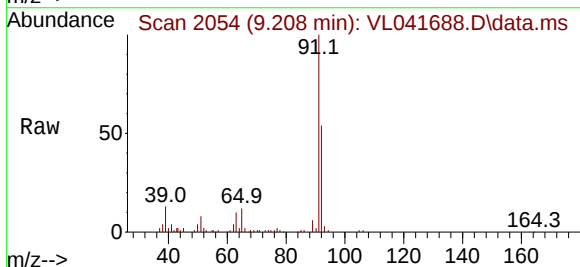
Acq: 7 Nov 2024 21:44

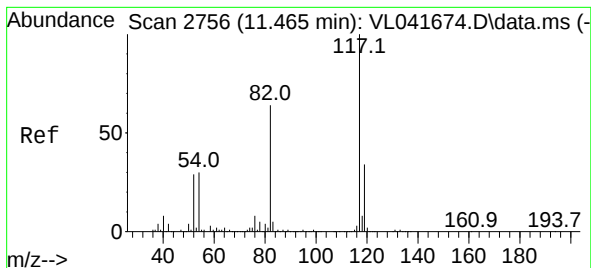
Tgt Ion: 91 Resp: 141574

Ion Ratio Lower Upper

91 100

92 59.2 49.0 73.4





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 11.455 min Scan# 2753

Delta R.T. -0.010 min

Lab File: VL041688.D

Acq: 7 Nov 2024 21:44

Instrument :

MSVOA\_L

ClientSampleId :

IA1

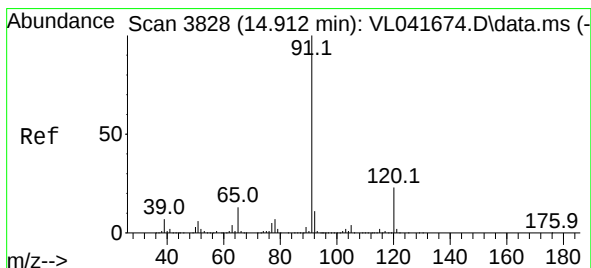
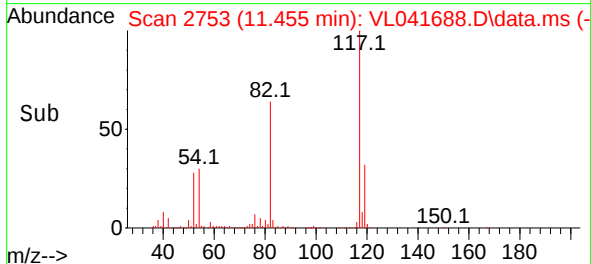
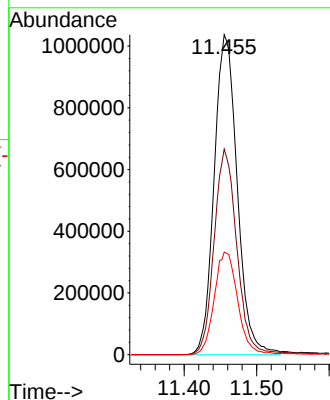
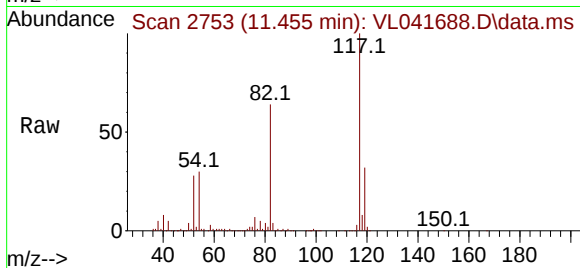
Tgt Ion:117 Resp: 2294846

Ion Ratio Lower Upper

117 100

82 64.1 49.8 74.8

119 32.8 24.2 36.4



#64

n-propylbenzene

Concen: 0.116 ppbv

RT: 14.905 min Scan# 3826

Delta R.T. -0.006 min

Lab File: VL041688.D

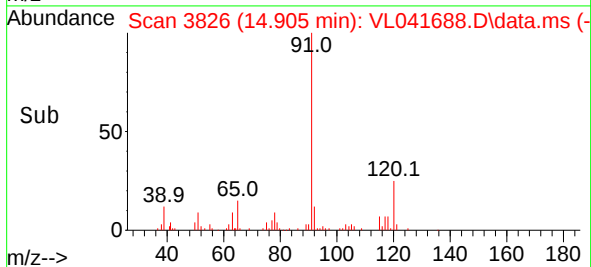
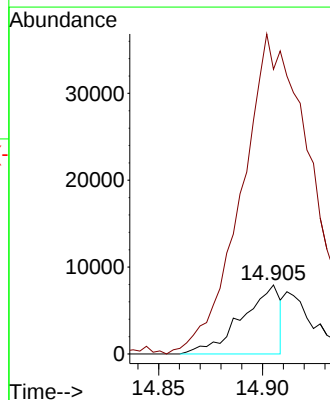
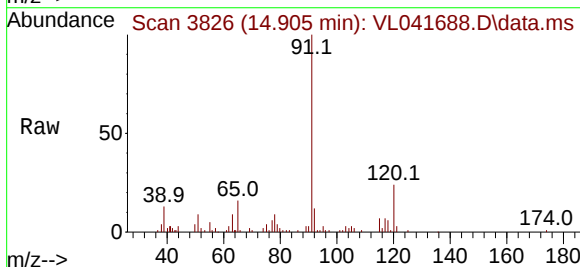
Acq: 7 Nov 2024 21:44

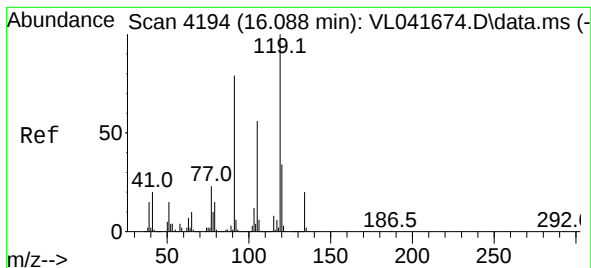
Tgt Ion:120 Resp: 10110

Ion Ratio Lower Upper

120 100

91 893.8 362.4 543.6#





#65

tert-Butylbenzene

Concen: 0.119 ppbv

RT: 16.101 min Scan# 41

Delta R.T. 0.013 min

Lab File: VL041688.D

Acq: 7 Nov 2024 21:44

Instrument :

MSVOA\_L

ClientSampleId :

IA1

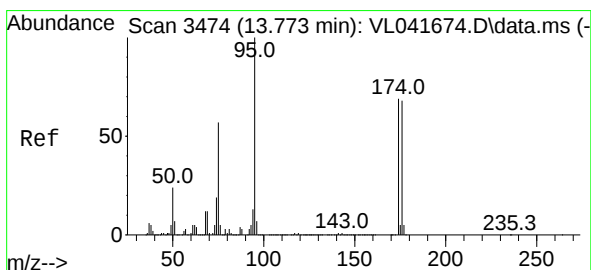
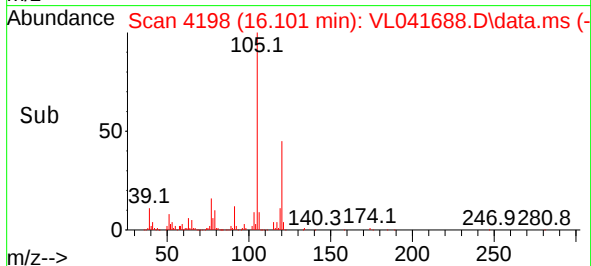
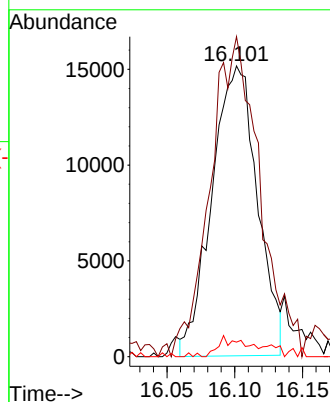
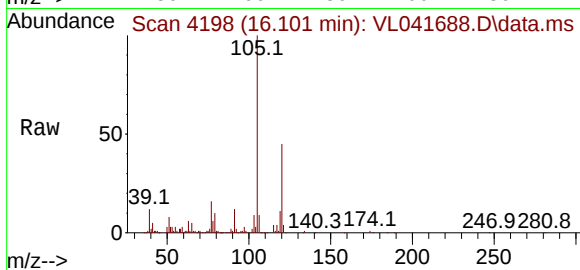
Tgt Ion:119 Resp: 35366

Ion Ratio Lower Upper

119 100

91 127.1 64.3 96.5#

134 6.4 15.8 23.8#



#68

1-Bromo-4-Fluorobenzene

Concen: 9.993 ppbv

RT: 13.767 min Scan# 3472

Delta R.T. -0.006 min

Lab File: VL041688.D

Acq: 7 Nov 2024 21:44

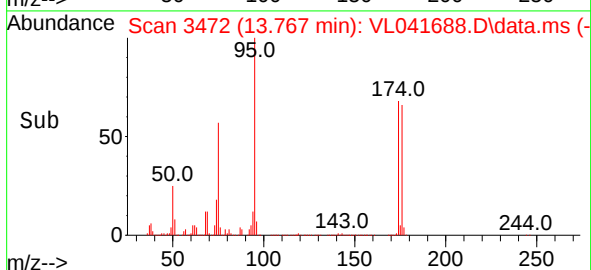
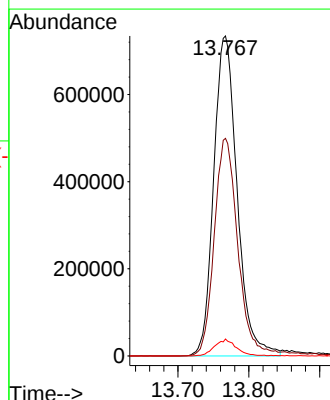
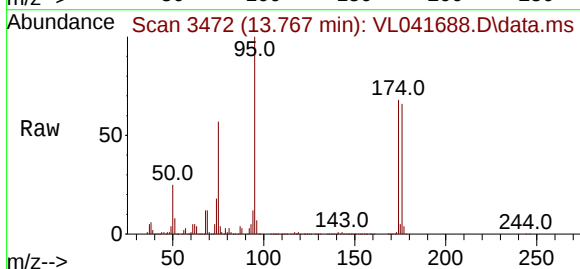
Tgt Ion: 95 Resp: 1689750

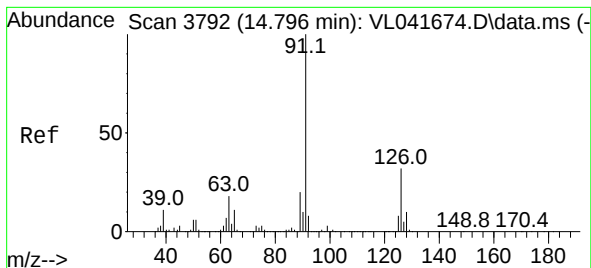
Ion Ratio Lower Upper

95 100

174 70.2 55.6 83.4

175 5.0 4.2 6.2

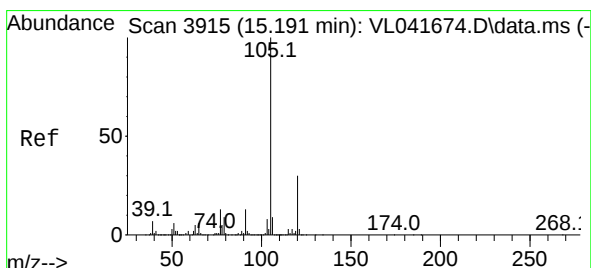
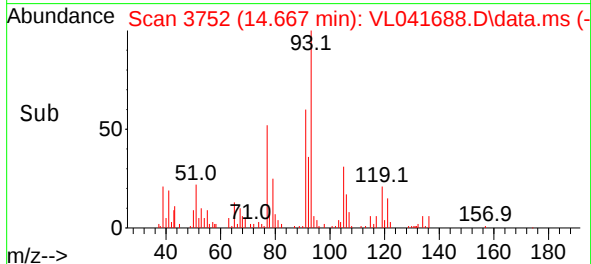
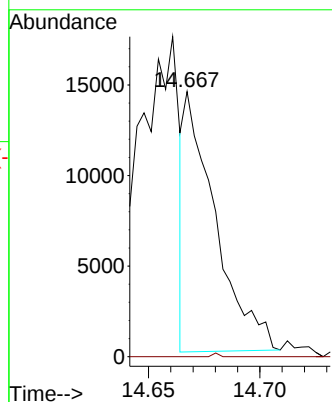
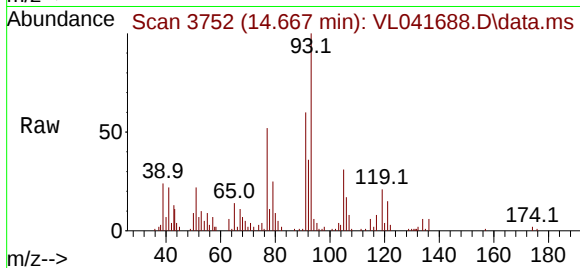




#71  
2-Chlorotoluene  
Concen: 0.058 ppbv  
RT: 14.667 min Scan# 31  
Delta R.T. -0.128 min  
Lab File: VL041688.D  
Acq: 7 Nov 2024 21:44

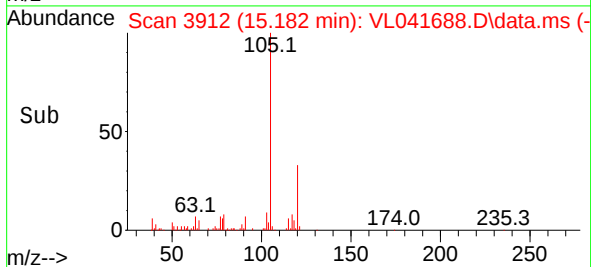
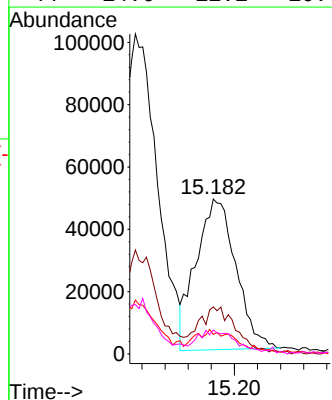
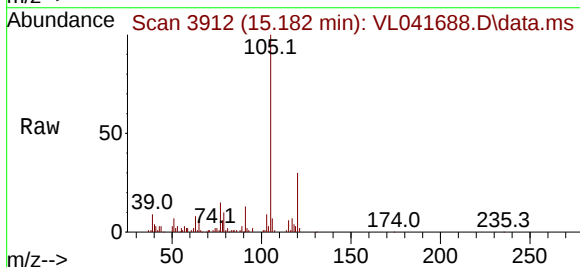
Instrument :  
MSVOA\_L  
ClientSampleId :  
IA1

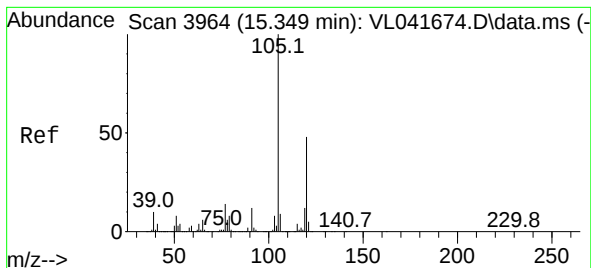
Tgt Ion: 91 Resp: 13984  
Ion Ratio Lower Upper  
91 100  
126 0.3 12.8 51.0#



#72  
4-Ethyltoluene  
Concen: 0.464 ppbv  
RT: 15.182 min Scan# 3912  
Delta R.T. -0.010 min  
Lab File: VL041688.D  
Acq: 7 Nov 2024 21:44

Tgt Ion:105 Resp: 115840  
Ion Ratio Lower Upper  
105 100  
120 31.6 25.0 37.4  
91 16.3 10.6 15.8#  
77 14.6 11.1 16.7





#73

1,3,5-Trimethylbenzene

Concen: 0.184 ppbv

RT: 15.339 min Scan# 3964

Delta R.T. -0.010 min

Lab File: VL041688.D

Acq: 7 Nov 2024 21:44

Instrument :

MSVOA\_L

ClientSampleId :

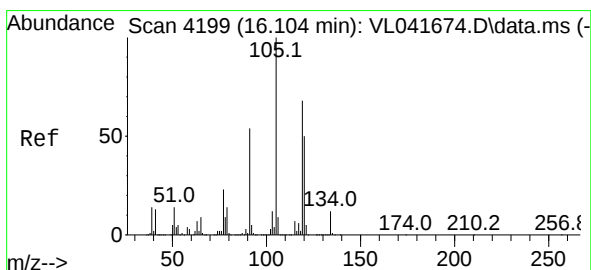
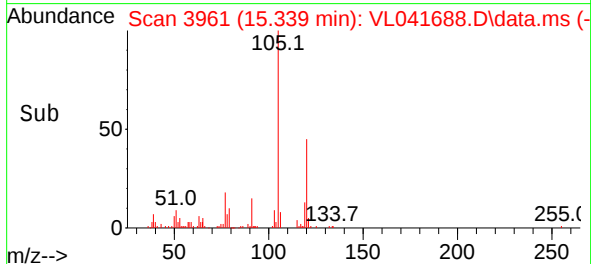
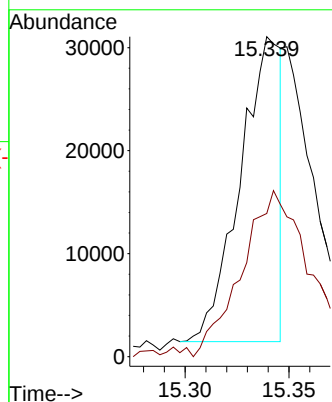
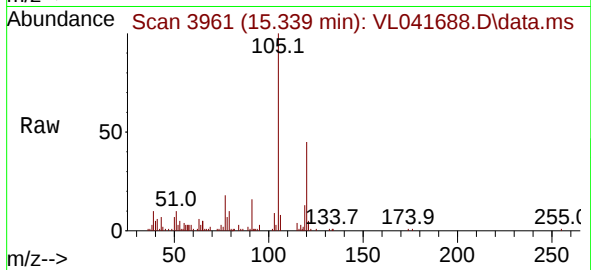
IA1

Tgt Ion:105 Resp: 40230

Ion Ratio Lower Upper

105 100

120 45.6 38.4 57.6



#74

1,2,4-Trimethylbenzene

Concen: 1.204 ppbv

RT: 16.098 min Scan# 4197

Delta R.T. -0.006 min

Lab File: VL041688.D

Acq: 7 Nov 2024 21:44

Tgt Ion:105 Resp: 306589

Ion Ratio Lower Upper

105 100

120 40.7 39.8 59.8

91 11.0 43.2 64.8#

77 13.9 18.5 27.7#

