

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL050922\  
 Data File : VL039016.D  
 Acq On : 10 May 2022 12:05  
 Operator : SY/AP  
 Sample : N2696-01DL2 200X  
 Misc : 400mL/MSVOA L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 SV1DL2

Quant Time: May 11 01:45:14 2022  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL050522AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Thu May 05 10:12:15 2022  
 QLast Update : Thu May 05 10:12:15 2022  
 Response via : Initial Calibration

| Internal Standards      | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------|-------|------|----------|-------|-------|----------|
| 1) Bromochloromethane   | 5.64  | 49   | 1020907  | 10.00 | ppbv  | -0.02    |
| 33) 1,4-Difluorobenzene | 7.14  | 114  | 2887323  | 10.00 | ppbv  | -0.03    |
| 55) Chlorobenzene-d5    | 12.05 | 117  | 2526111  | 10.00 | ppbv  | -0.03    |

|                             |        |       |          |          |      |        |
|-----------------------------|--------|-------|----------|----------|------|--------|
| System Monitoring Compounds |        |       |          |          |      |        |
| 68) 1-Bromo-4-Fluorobenzene | 14.37  | 95    | 1933960  | 9.67     | ppbv | -0.03  |
| Spiked Amount               | 10.000 | Range | 65 - 135 | Recovery | =    | 96.70% |

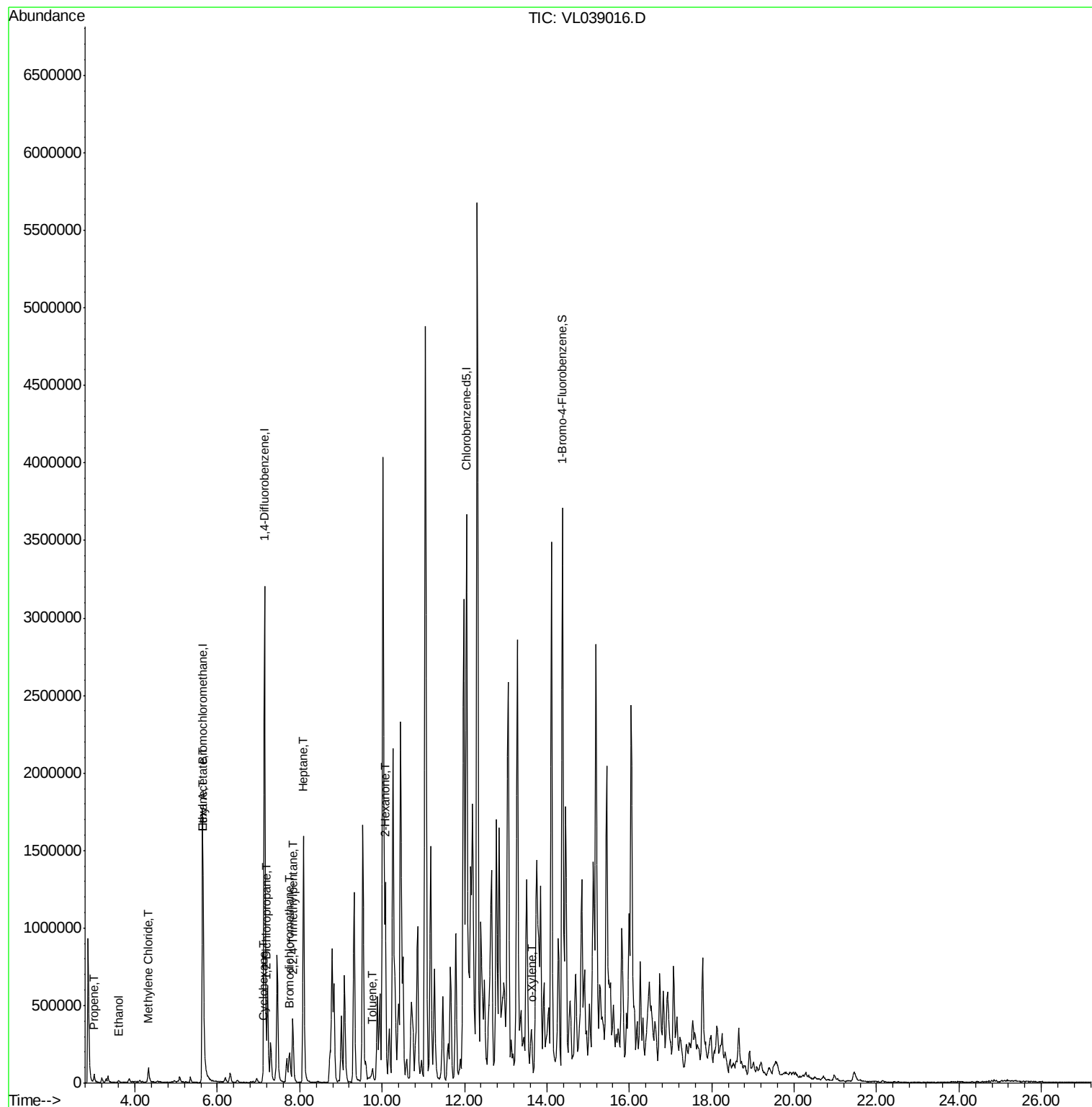
| Target Compounds           | R.T.  | QIon | Response | Conc  | Units  | Ovalue |
|----------------------------|-------|------|----------|-------|--------|--------|
| 9) Propene                 | 3.00  | 41   | 23275    | 0.421 | ppbv   | 87     |
| 10) Heptane                | 8.09  | 43   | 834523   | 6.149 | ppbv   | 100    |
| 13) Ethanol                | 3.60  | 45   | 5064     | 1.293 | ppbv # | 23     |
| 20) Methylene Chloride     | 4.33  | 84   | 35644    | 0.982 | ppbv # | 86     |
| 25) Ethyl Acetate          | 5.66  | 43   | 65705    | 0.285 | ppbv # | 77     |
| 26) Hexane                 | 5.66  | 57   | 92749    | 0.906 | ppbv # | 40     |
| 30) Cyclohexane            | 7.10  | 84   | 2854     | 0.033 | ppbv # | 1      |
| 39) 1,2-Dichloropropane    | 7.19  | 63   | 12091    | 0.126 | ppbv # | 50     |
| 42) Bromodichloromethane   | 7.75  | 83   | 6849     | 0.033 | ppbv # | 24     |
| 44) 2,2,4-Trimethylpentane | 7.83  | 57   | 39624    | 0.091 | ppbv # | 1      |
| 51) 2-Hexanone             | 10.08 | 43   | 776642   | 4.120 | ppbv # | 28     |
| 53) Toluene                | 9.77  | 91   | 15346    | 0.055 | ppbv   | 89     |
| 60) o-Xylene               | 13.65 | 91   | 13255    | 0.045 | ppbv # | 50     |

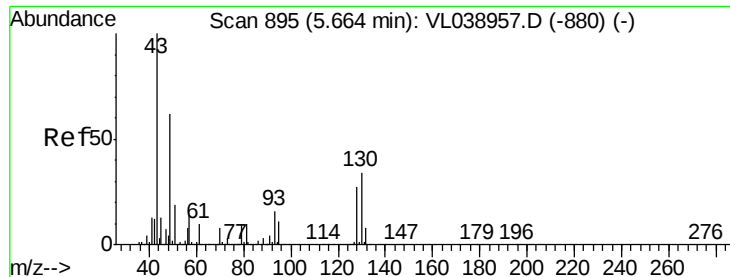
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL050922\  
Data File : VL039016.D  
Acq On : 10 May 2022 12:05  
Operator : SY/AP  
Sample : N2696-01DL2 200X  
Misc : 400mL/MSVOA L  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_L  
ClientSampleId :  
SV1DL2

Quant Time: May 11 01:45:14 2022  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL050522AIR.M  
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Thu May 05 10:12:15 2022  
QLast Update : Thu May 05 10:12:15 2022  
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.64 Instrument: MSVOA\_1

Delta R.T.

Lab File: ClientSampleId: SV1DL2

Acq: 10 May 2022 12:05

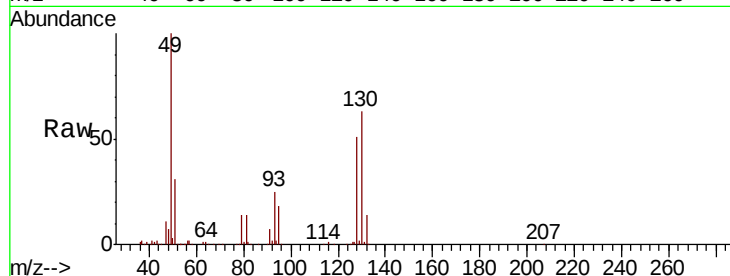
Tot Ion: 49 Resp: 1020907

Ion Ratio Lower Upper

49 100

128 51.5 23.3 69.8

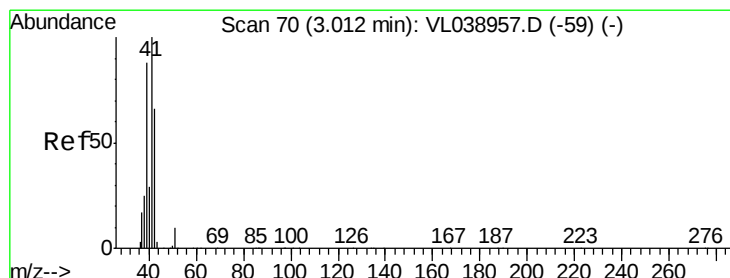
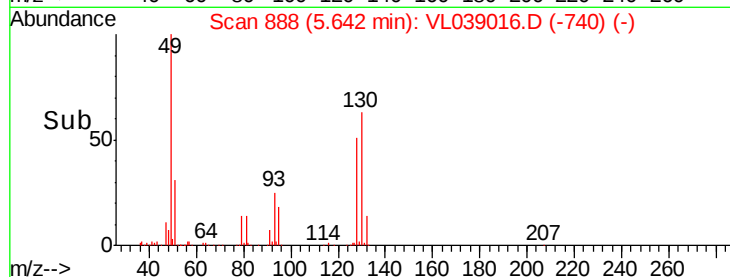
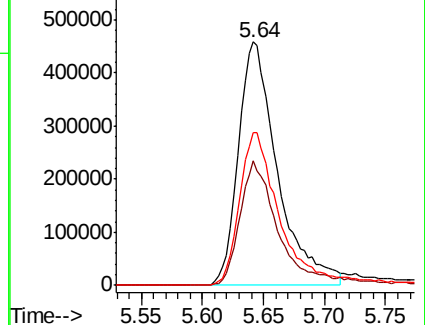
130 66.8 29.8 89.3



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): V

Ion 130.00 (129.70 to 130.70): V



#9

Propene

Concen: 0.421 ppbv

RT: 3.00 min Scan# 67

Delta R.T. -0.01 min

Lab File: VL039016.D

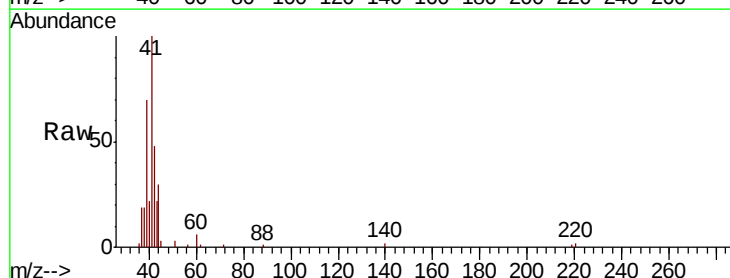
Acq: 10 May 2022 12:05

Tgt Ion: 41 Resp: 23275

Ion Ratio Lower Upper

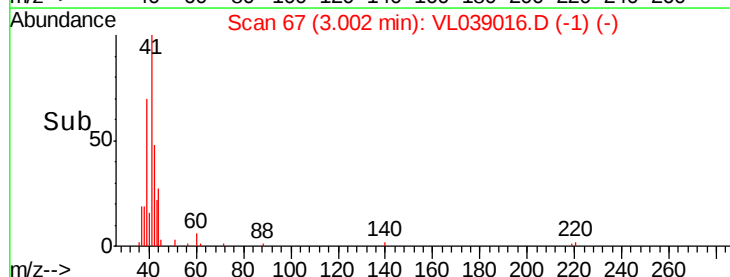
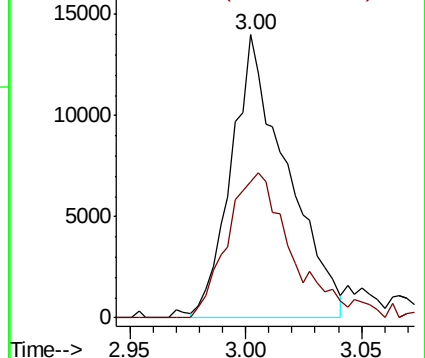
41 100

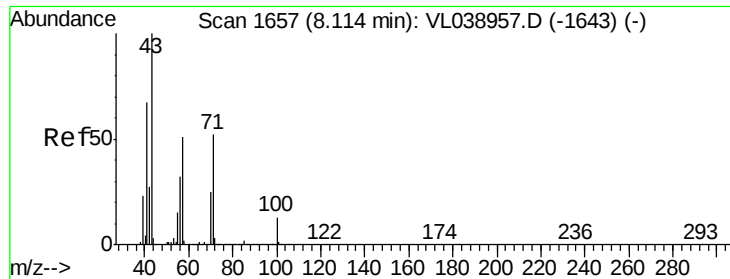
42 61.8 58.3 87.5



Abundance Ion 41.10 (40.80 to 41.80): VL0

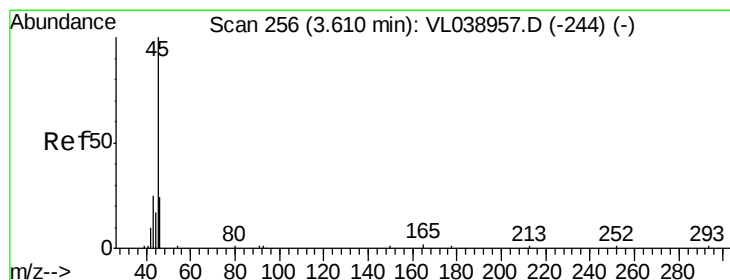
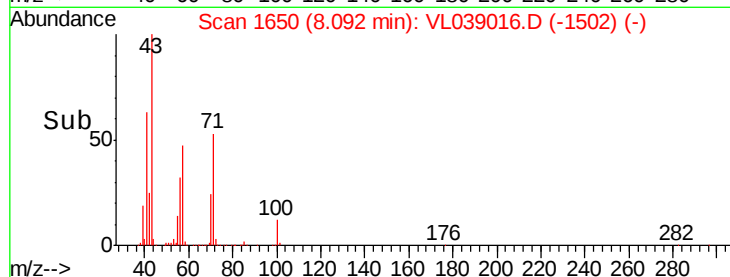
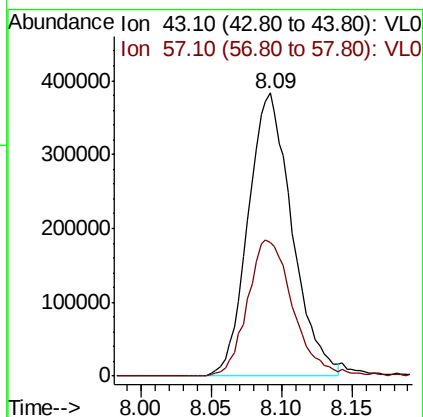
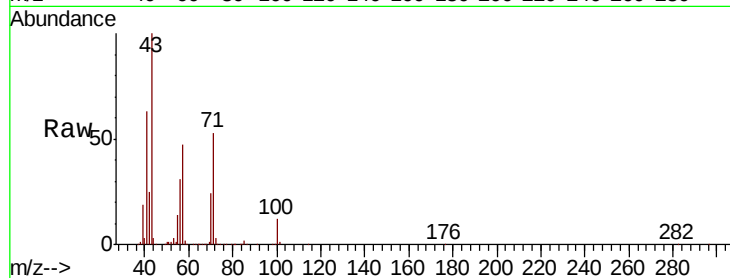
Ion 42.10 (41.80 to 42.80): VL0





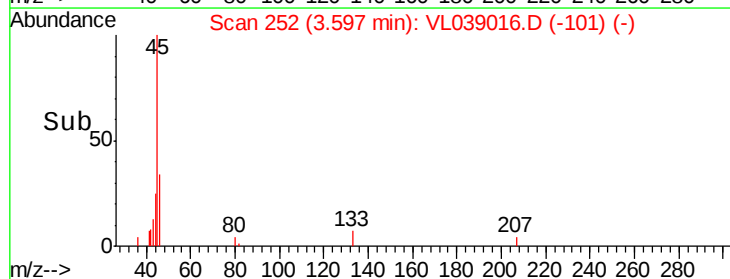
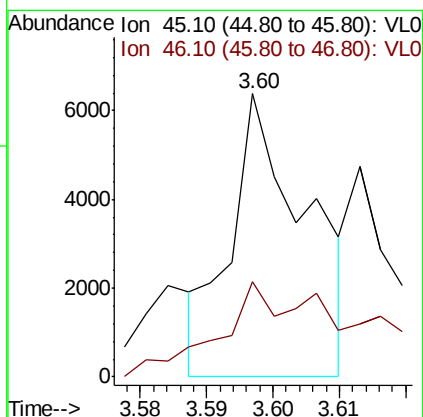
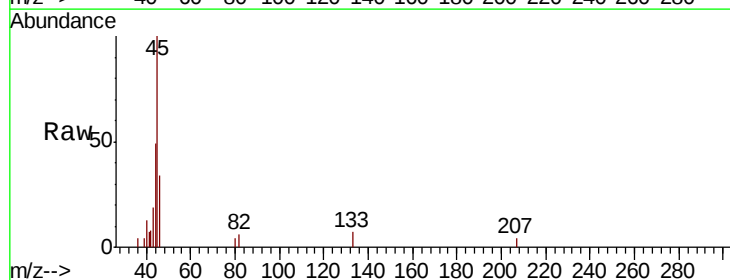
#10  
 Heptane  
 Concen: 6.149 ppbv  
 RT: 8.09  
 Delta R.T. MSVOA\_L  
 Lab File: ClientSampleId :  
 SV1DL2  
 Acq: 10 May 2022 12:05

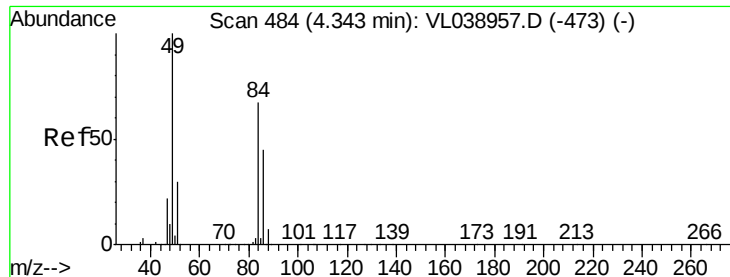
Tot Ion: 43 Resp: 834523  
 Ion Ratio Lower Upper  
 43 100  
 57 50.6 40.5 60.7



#13  
 Ethanol  
 Concen: 1.293 ppbv  
 RT: 3.60 min Scan# 252  
 Delta R.T. -0.01 min  
 Lab File: VL039016.D  
 Acq: 10 May 2022 12:05

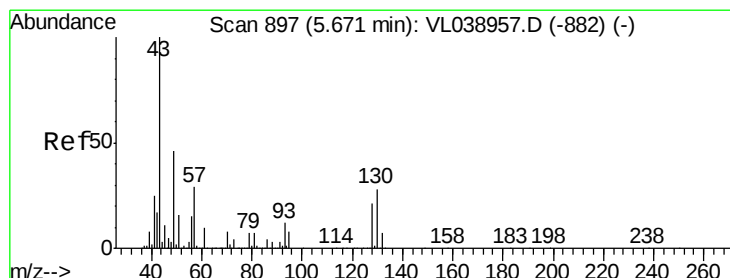
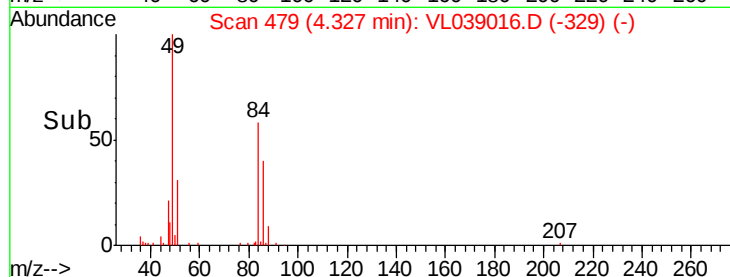
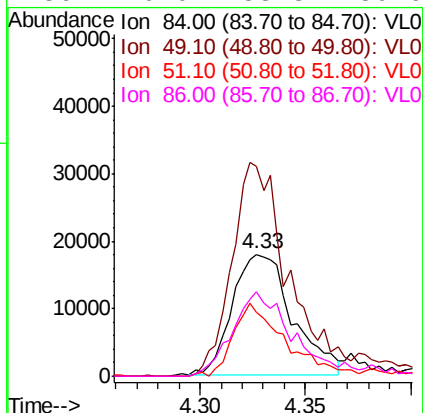
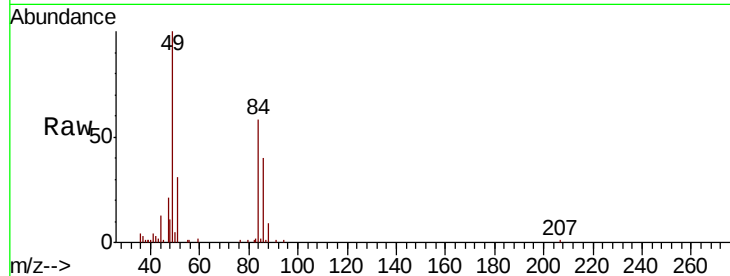
Tgt Ion: 45 Resp: 5064  
 Ion Ratio Lower Upper  
 45 100  
 46 95.6 18.0 72.2#





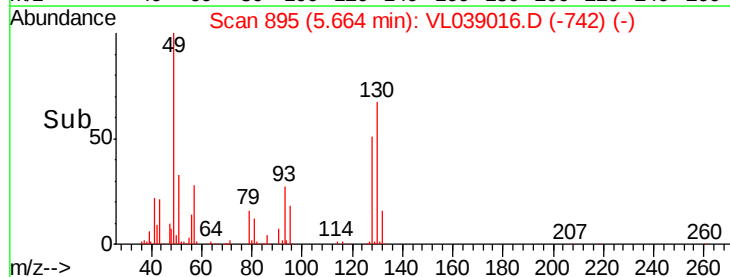
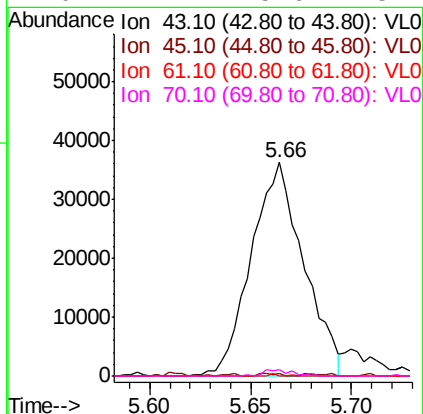
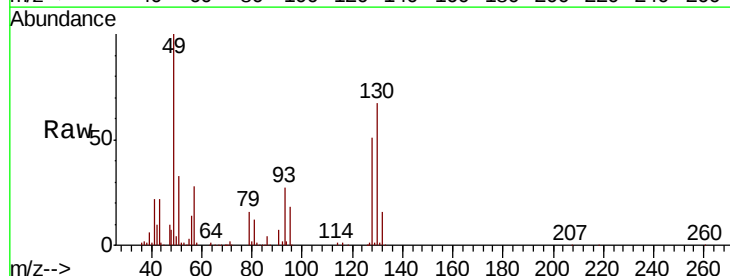
#20  
Methvlene Chloride  
Concen: 0.982 ppbv  
RT: 4.33  
Delta R.T. MSVOA\_L  
Lab File: ClientSampleId :  
SV1DL2  
Acq: 10 May 2022 12:05

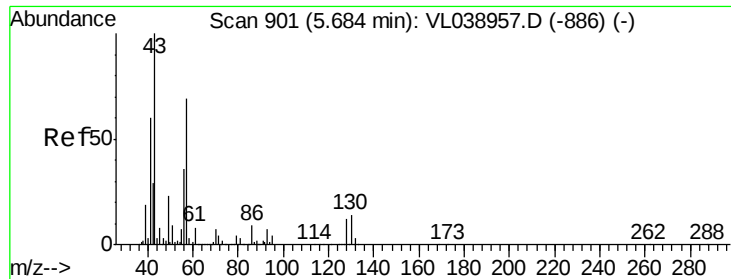
|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 84    | Resp: | 35644 |
| Ion      | Ratio | Lower | Upper |
| 84       | 100   |       |       |
| 49       | 174.2 | 119.9 | 179.9 |
| 51       | 53.7  | 35.7  | 53.5# |
| 86       | 70.0  | 53.8  | 80.6  |



#25  
Ethyl Acetate  
Concen: 0.285 ppbv  
RT: 5.66 min Scan# 895  
Delta R.T. -0.01 min  
Lab File: VL039016.D  
Acq: 10 May 2022 12:05

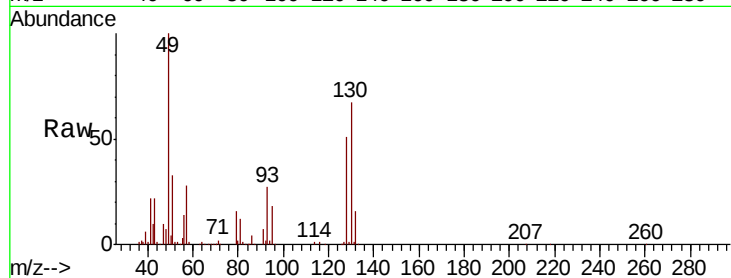
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 43    | Resp: | 65705 |
| Ion      | Ratio | Lower | Upper |
| 43       | 100   |       |       |
| 45       | 0.7   | 8.1   | 12.1# |
| 61       | 0.2   | 7.8   | 11.6# |
| 70       | 1.7   | 5.6   | 8.4#  |



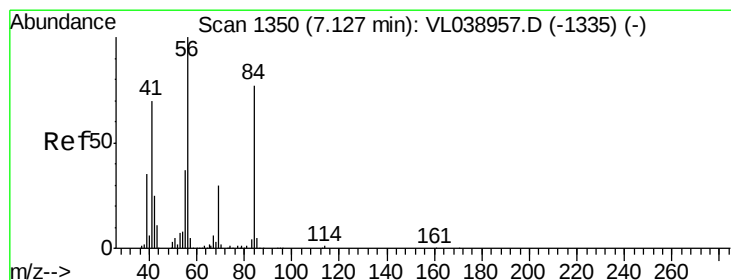
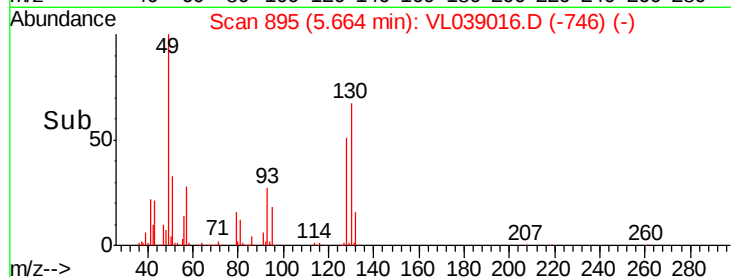
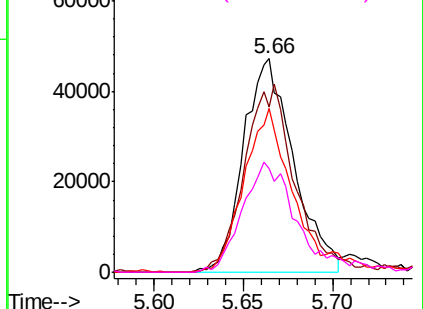


#26  
Hexane  
Concen: 0.906 ppbv  
RT: 5.66  
Delta R.T. MSVOA\_L  
Lab File: ClientSampleId :  
SV1DL2  
Acq: 10 May 2022 12:05

|          |       |       |        |
|----------|-------|-------|--------|
| Tot Ion: | 57    | Resp: | 92749  |
| Ion      | Ratio | Lower | Upper  |
| 57       | 100   |       |        |
| 41       | 91.8  | 75.2  | 112.8  |
| 43       | 77.7  | 190.8 | 286.2# |
| 56       | 58.1  | 43.0  | 64.6   |

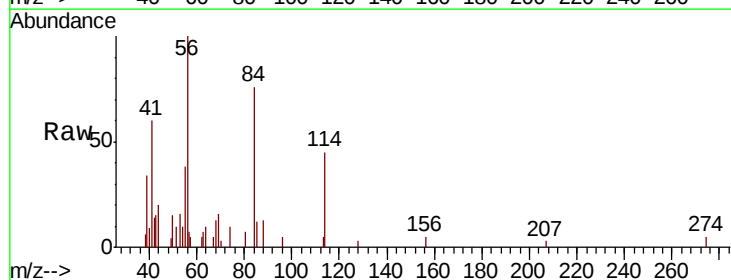


Abundance Ion 57.10 (56.80 to 57.80): VL0  
Ion 41.10 (40.80 to 41.80): VL0  
Ion 43.10 (42.80 to 43.80): VL0  
Ion 56.10 (55.80 to 56.80): VL0

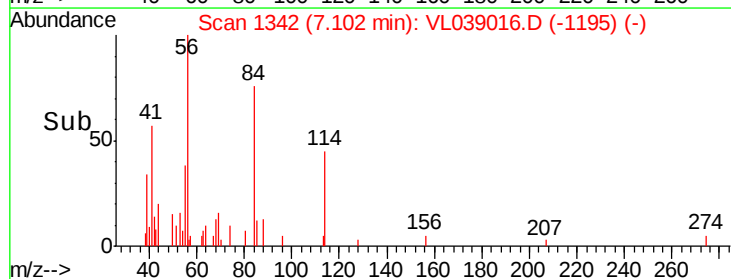
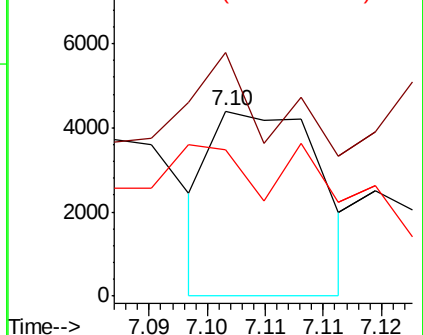


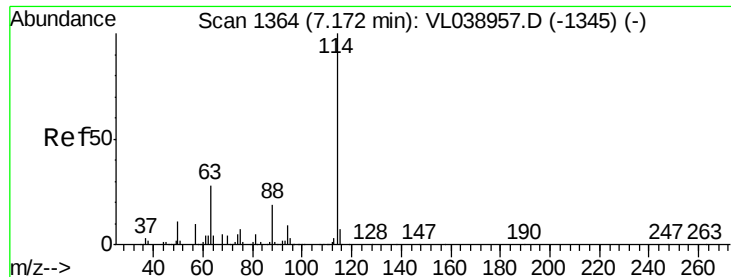
#30  
Cyclohexane  
Concen: 0.033 ppbv  
RT: 7.10 min Scan# 1342  
Delta R.T. -0.03 min  
Lab File: VL039016.D  
Acq: 10 May 2022 12:05

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 84    | Resp: | 2854   |
| Ion      | Ratio | Lower | Upper  |
| 84       | 100   |       |        |
| 56       | 0.0   | 115.3 | 172.9# |
| 41       | 0.0   | 72.0  | 108.0# |



Abundance Ion 84.20 (83.90 to 84.90): VL0  
Ion 56.10 (55.80 to 56.80): VL0  
Ion 41.10 (40.80 to 41.80): VL0





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.14 Instrument:

Delta R.T. MSVOA\_L

Lab File: ClientSampleId:

SV1DL2

Acq: 10 May 2022 12:05

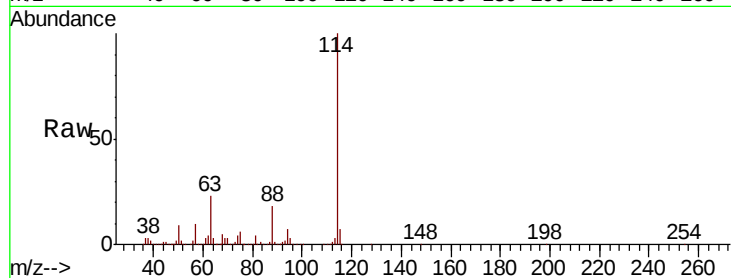
Tot Ion:114 Resp: 2887323

Ion Ratio Lower Upper

114 100

63 23.9 22.6 33.8

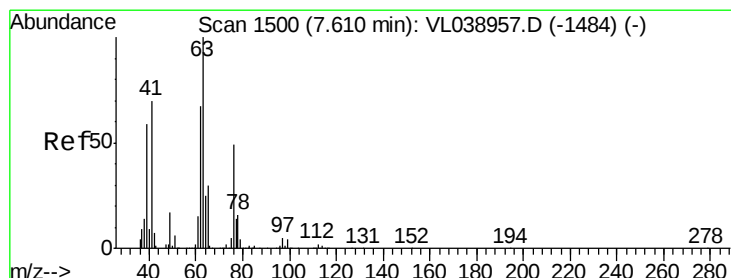
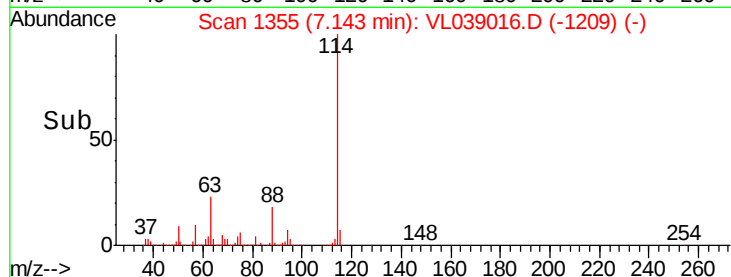
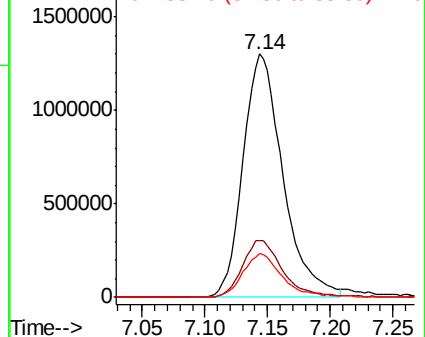
88 18.1 15.4 23.0



Abundance Ion 114.10 (113.80 to 114.80): VL0

Ion 63.10 (62.80 to 63.80): VL0

Ion 88.10 (87.80 to 88.80): VL0



#39

1,2-Dichloropropane

Concen: 0.126 ppbv

RT: 7.19 min Scan# 1370

Delta R.T. -0.42 min

Lab File: VL039016.D

Acq: 10 May 2022 12:05

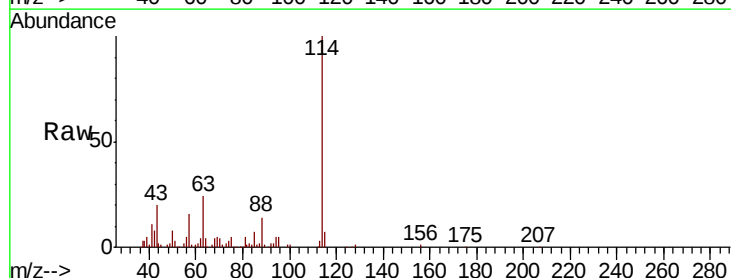
Tgt Ion: 63 Resp: 12091

Ion Ratio Lower Upper

63 100

41 36.4 55.9 83.9#

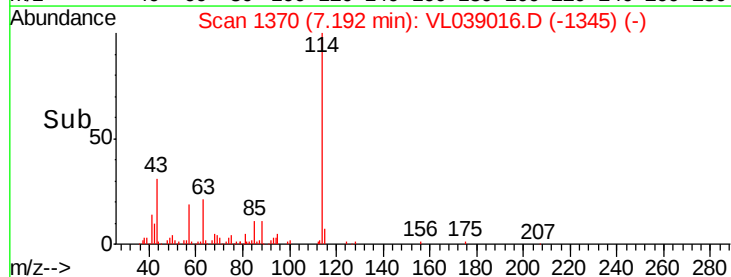
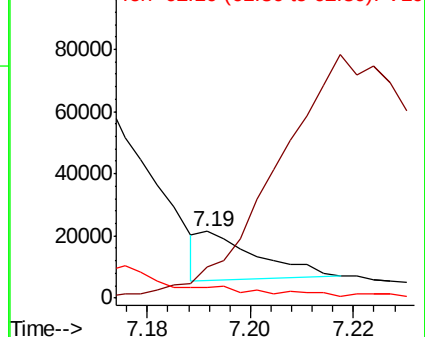
62 19.4 53.8 80.6#

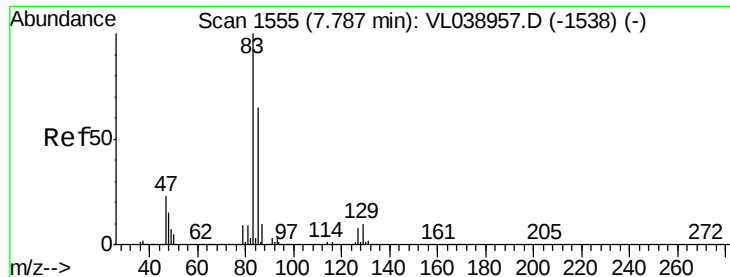


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 62.10 (61.80 to 62.80): VL0





#42

Bromodichloromethane

Concen: 0.033 ppbv

RT: 7.75 Instrument:

Delta R.T. MSVOA\_L

Lab File: ClientSampleId:

SV1DL2

Acq: 10 May 2022 12:05

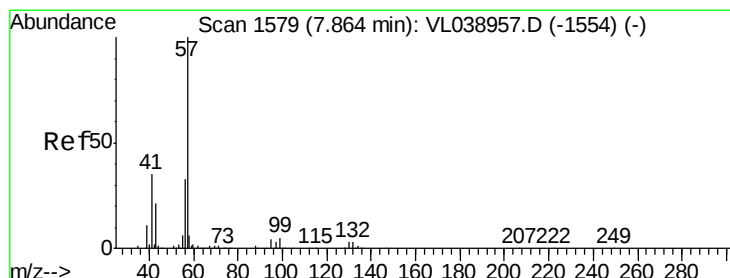
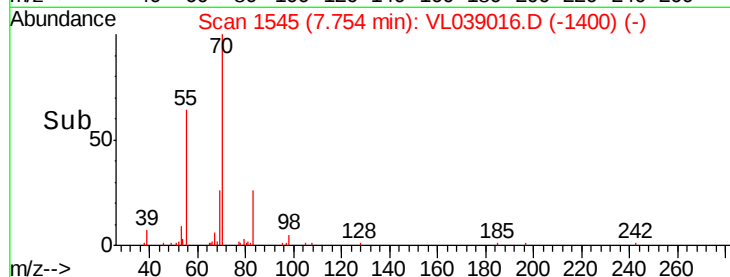
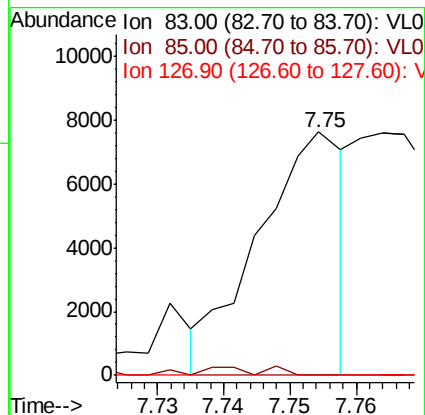
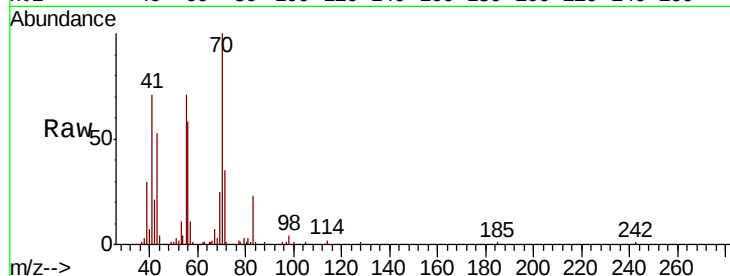
Tot Ion: 83 Resp: 6849

Ion Ratio Lower Upper

83 100

85 0.0 52.0 78.0#

127 0.0 6.0 9.0#



#44

2,2,4-Trimethylpentane

Concen: 0.091 ppbv

RT: 7.83 min Scan# 1569

Delta R.T. -0.03 min

Lab File: VL039016.D

Acq: 10 May 2022 12:05

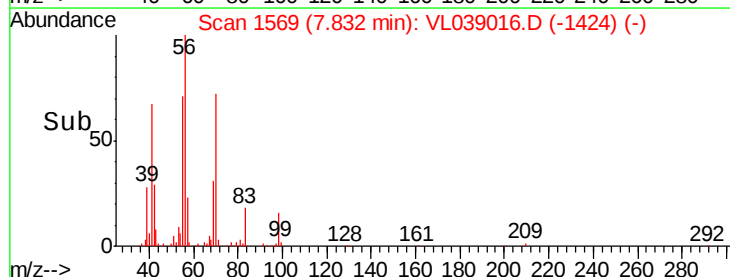
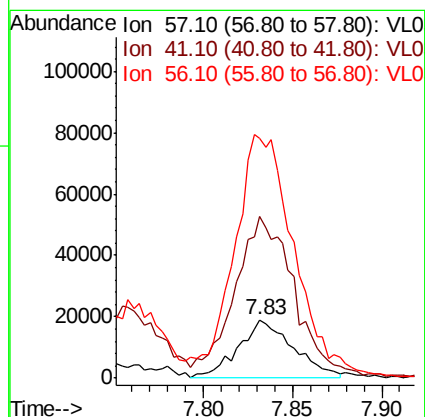
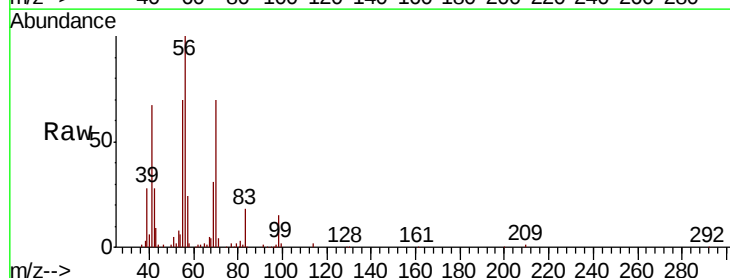
Tgt Ion: 57 Resp: 39624

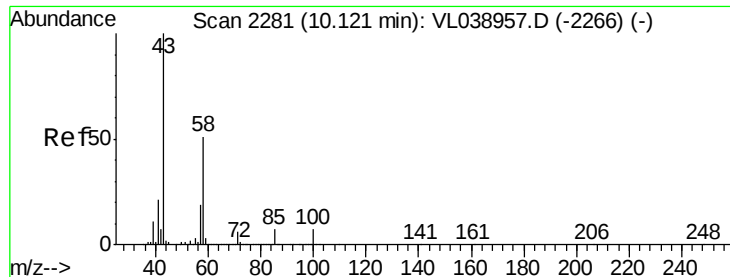
Ion Ratio Lower Upper

57 100

41 309.4 26.3 39.5#

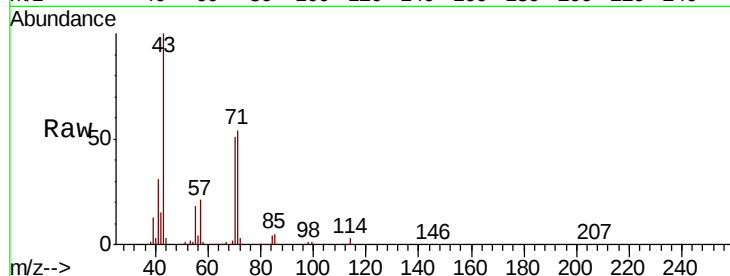
56 480.5 24.6 37.0#



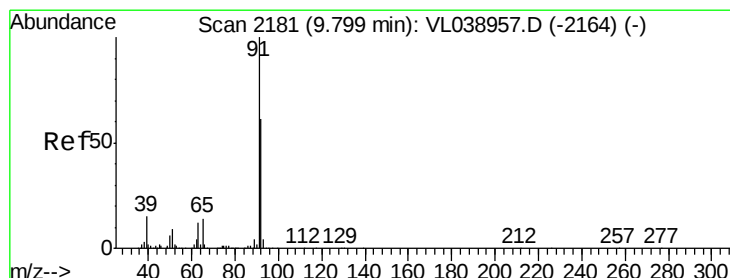
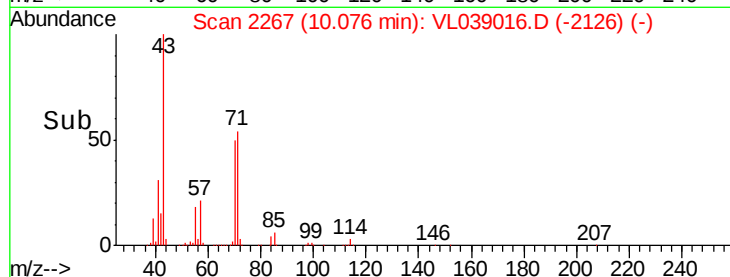
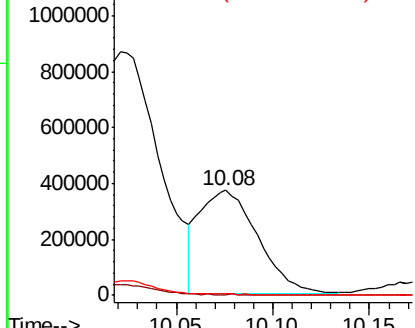


#51  
2-Hexanone  
Concen: 4.120 ppbv  
RT: 10.08  
Delta R.T. MSVOA\_L  
Lab File: ClientSampleId :  
SV1DL2  
Acq: 10 May 2022 12:05

Tot Ion: 43 Resp: 776642  
Ion Ratio Lower Upper  
43 100  
58 0.0 39.3 58.9#  
98 0.0 0.2 0.2#

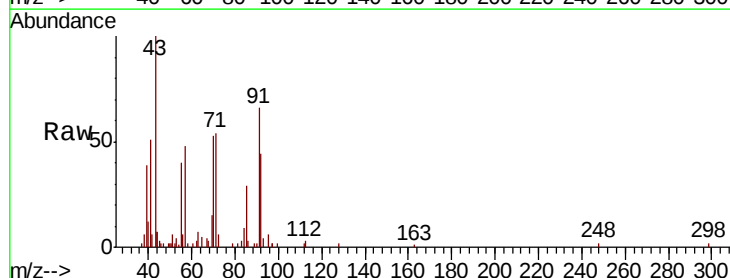


Abundance Ion 43.10 (42.80 to 43.80): VL0  
Ion 58.10 (57.80 to 58.80): VL0  
Ion 98.20 (97.90 to 98.90): VL0

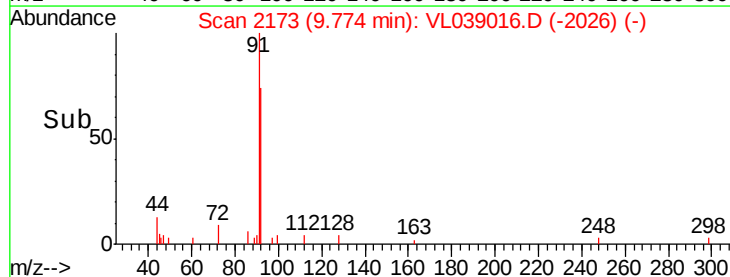
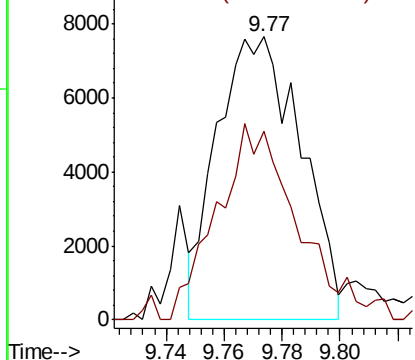


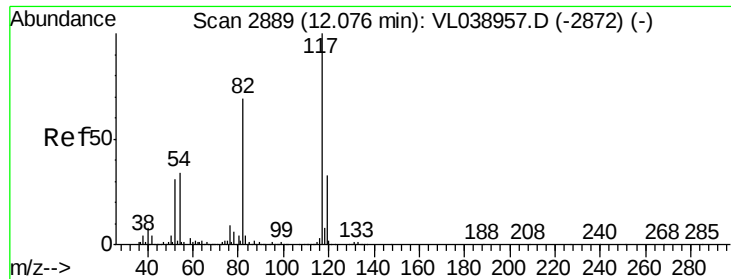
#53  
Toluene  
Concen: 0.055 ppbv  
RT: 9.77 min Scan# 2173  
Delta R.T. -0.03 min  
Lab File: VL039016.D  
Acq: 10 May 2022 12:05

Tgt Ion: 91 Resp: 15346  
Ion Ratio Lower Upper  
91 100  
92 68.3 48.2 72.2



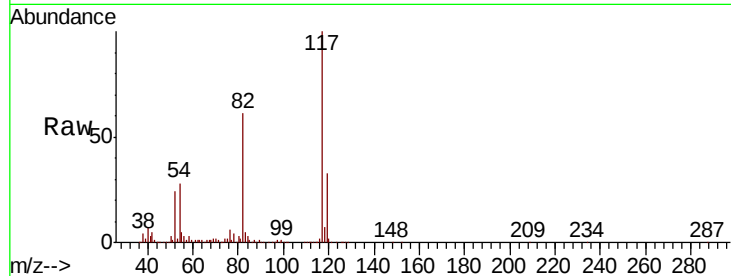
Abundance Ion 91.10 (90.80 to 91.80): VL0  
Ion 92.10 (91.80 to 92.80): VL0



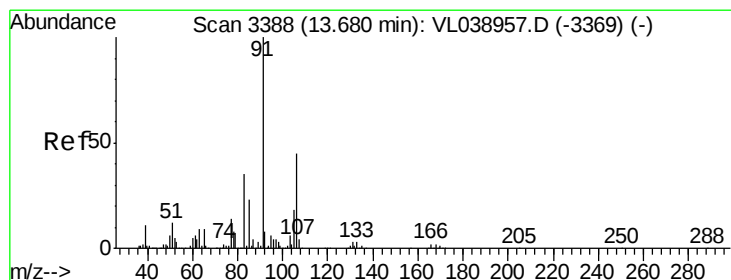
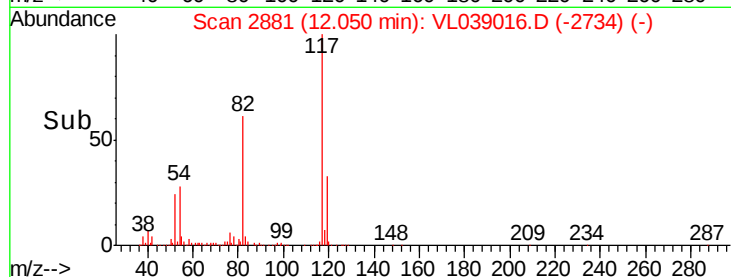
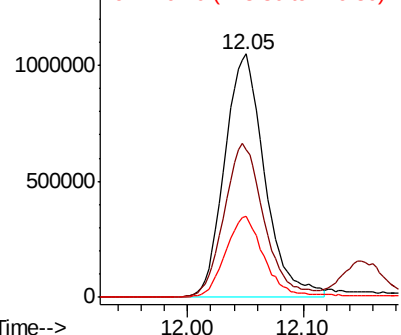


#55  
Chlorobenzene-d5  
Concen: 10.000 ppbv  
RT: 12.05  
Instrument: MSVOA\_1  
Delta R.T.:  
Lab File: ClientSampleId :  
SV1DL2  
Acq: 10 May 2022 12:05

Tot Ion:117 Resp: 2526111  
Ion Ratio Lower Upper  
117 100  
82 62.9 57.0 85.6  
119 33.5 27.2 40.8

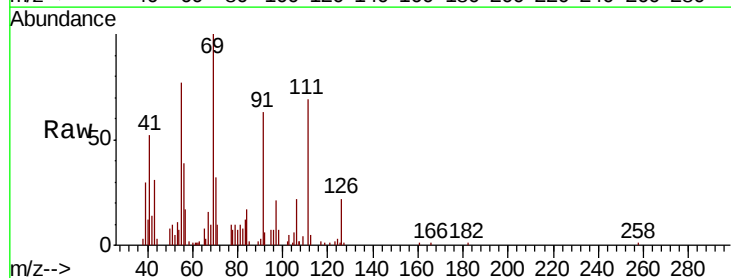


Abundance Ion 117.10 (116.80 to 117.80): V  
Ion 82.10 (81.80 to 82.80): VL0  
Ion 119.10 (118.80 to 119.80): V

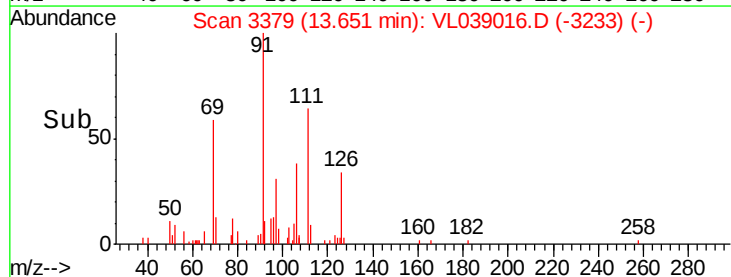
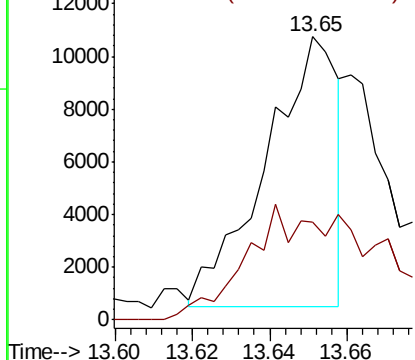


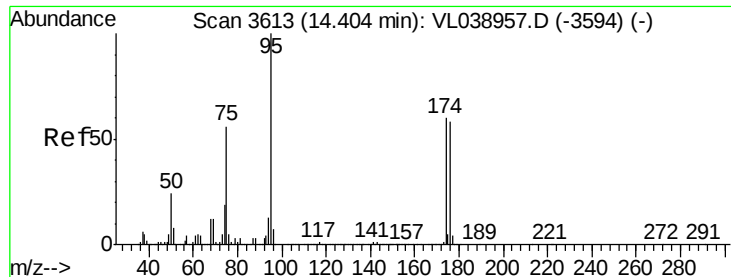
#60  
o-Xylene  
Concen: 0.045 ppbv  
RT: 13.65 min Scan# 3379  
Delta R.T. -0.03 min  
Lab File: VL039016.D  
Acq: 10 May 2022 12:05

Tgt Ion: 91 Resp: 13255  
Ion Ratio Lower Upper  
91 100  
106 77.2 22.2 66.6#



Abundance Ion 91.10 (90.80 to 91.80): VL0  
Ion 106.10 (105.80 to 106.80): V





#68

1-Bromo-4-Fluorobenzene

Concen: 9.667 ppbv

RT: 14.37

Delta R.T: MSVOA\_L

Lab File: ClientSampleId :

SV1DL2

Acq: 10 May 2022 12:05

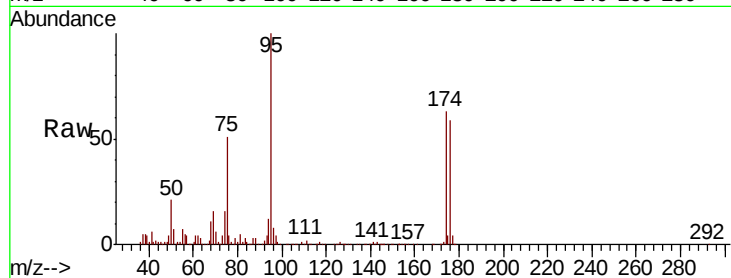
Tot Ion: 95 Resp: 1933960

Ion Ratio Lower Upper

95 100

174 64.4 50.8 76.2

175 4.5 3.8 5.6



Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V

