

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL121620\  
 Data File : VL036167.D  
 Acq On : 16 Dec 2020 15:26  
 Operator : SY/AP  
 Sample : L5082-01DL 40X  
 Misc : 400ml/MSVOA L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :

Quant Time: Dec 17 03:39:46 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL120720AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Mon Dec 07 16:56:49 2020  
 QLast Update : Mon Dec 07 16:56:49 2020  
 Response via : Initial Calibration

| Internal Standards      | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------|-------|------|----------|-------|-------|----------|
| 1) Bromochloromethane   | 5.65  | 49   | 1343678  | 10.00 | ppbv  | -0.04    |
| 33) 1,4-Difluorobenzene | 7.16  | 114  | 2791488  | 10.00 | ppbv  | -0.04    |
| 55) Chlorobenzene-d5    | 12.07 | 117  | 2499144  | 10.00 | ppbv  | -0.04    |

System Monitoring Compounds

|                             |        |       |          |          |      |         |
|-----------------------------|--------|-------|----------|----------|------|---------|
| 68) 1-Bromo-4-Fluorobenzene | 14.40  | 95    | 2221520  | 11.19    | ppbv | -0.04   |
| Spiked Amount               | 10.000 | Range | 65 - 135 | Recovery | =    | 111.90% |

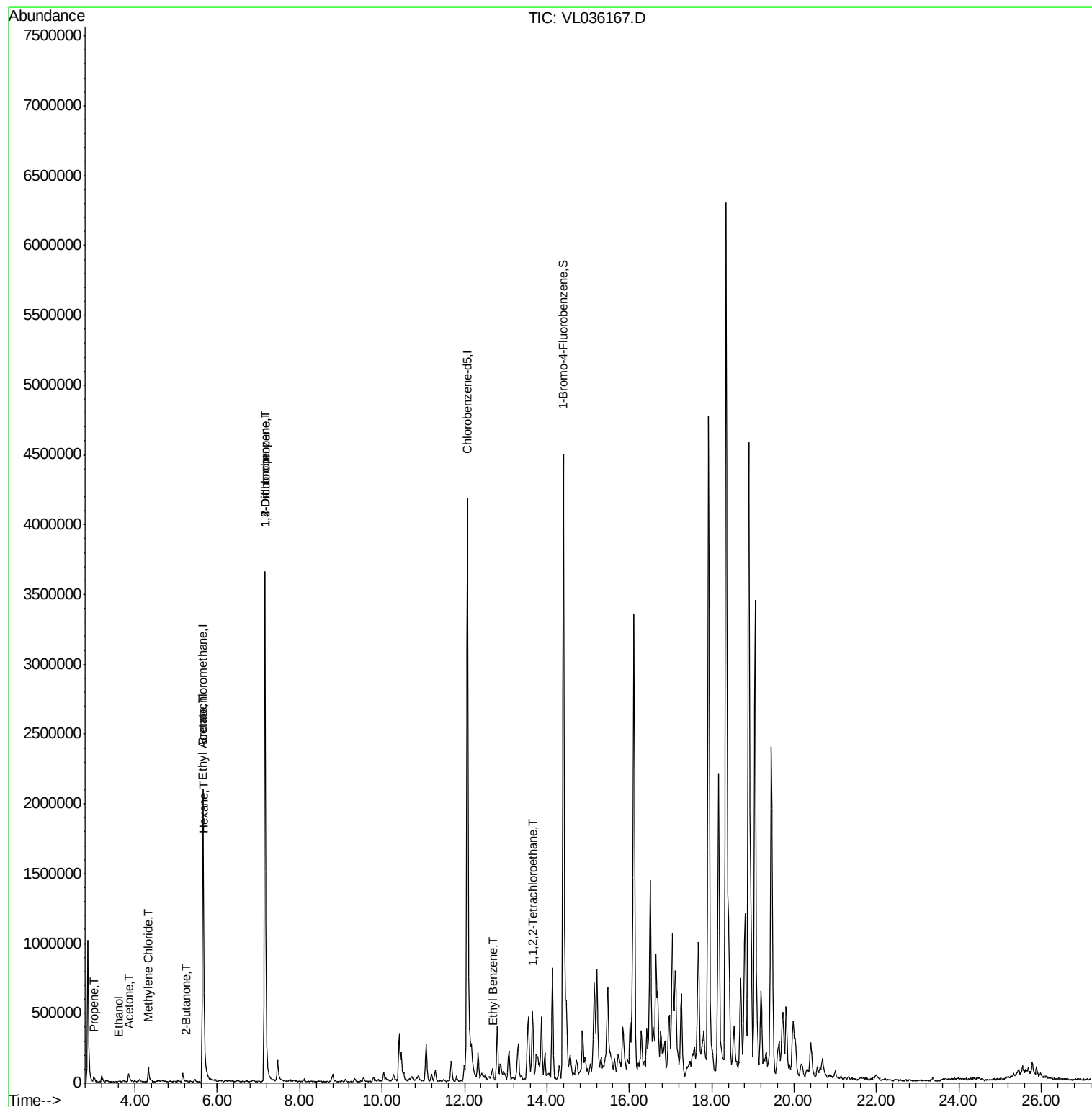
| Target Compounds              | R.T.  | QIon | Response | Conc  | Units  | Ovalue |
|-------------------------------|-------|------|----------|-------|--------|--------|
| 9) Propene                    | 3.00  | 41   | 2729     | 0.036 | ppbv # | 14     |
| 13) Ethanol                   | 3.59  | 45   | 1941     | 0.183 | ppbv # | 29     |
| 15) Acetone                   | 3.84  | 43   | 52417    | 0.325 | ppbv # | 49     |
| 20) Methylene Chloride        | 4.32  | 84   | 18185    | 0.275 | ppbv   | 91     |
| 25) Ethyl Acetate             | 5.66  | 43   | 59820    | 0.185 | ppbv # | 78     |
| 26) Hexane                    | 5.67  | 57   | 79439    | 0.547 | ppbv # | 37     |
| 34) 2-Butanone                | 5.24  | 43   | 6298     | 0.034 | ppbv # | 56     |
| 39) 1,2-Dichloropropane       | 7.15  | 63   | 852736   | 9.127 | ppbv # | 24     |
| 58) Ethyl Benzene             | 12.70 | 91   | 13263    | 0.039 | ppbv   | 94     |
| 63) 1,1,2,2-Tetrachloroethane | 13.66 | 83   | 5679     | 0.031 | ppbv # | 25     |

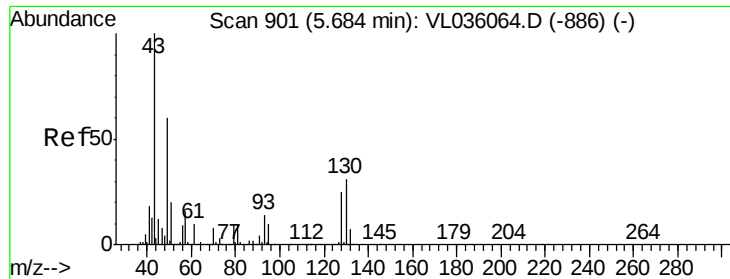
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL121620\  
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Misc : 400ml/MSVOA L  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_L  
ClientSampleId :

Quant Time: Dec 17 03:39:46 2020  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL120720AIR.M  
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Mon Dec 07 16:56:49 2020  
QLast Update : Mon Dec 07 16:56:49 2020  
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.65 min Scan# 890

Delta R.T. -0.04 min

Lab File: VL036167.D

Acq: 16 Dec 2020 15:26

Instrument :

MSVOA\_L

ClientSampled :

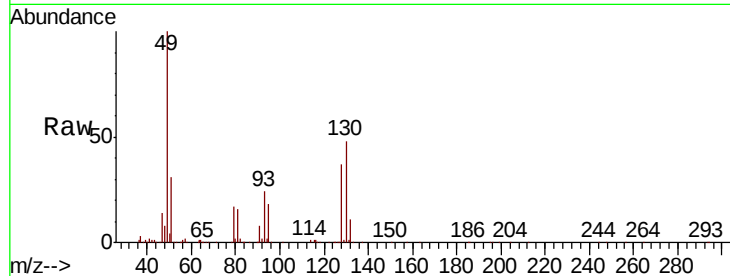
Tot Ion: 49 Resp: 1343678

Ion Ratio Lower Upper

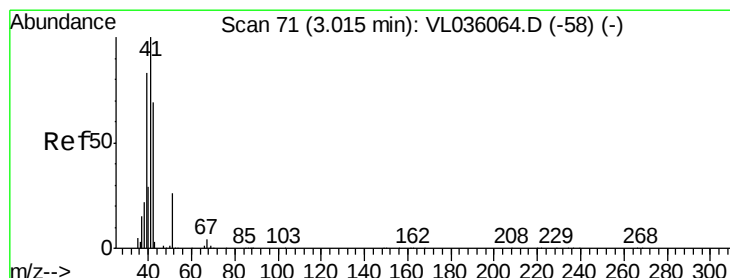
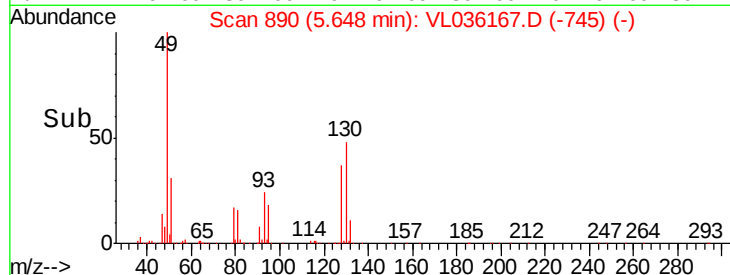
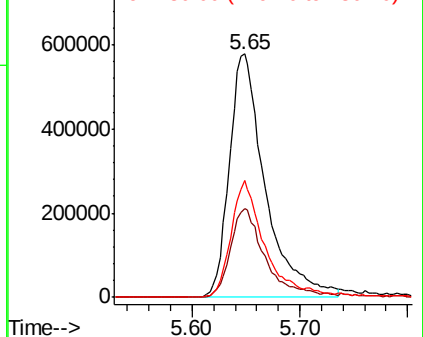
49 100

128 36.8 21.1 63.1

130 46.8 27.1 81.3



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: 0.036 ppbv

RT: 3.00 min Scan# 65

Delta R.T. -0.02 min

Lab File: VL036167.D

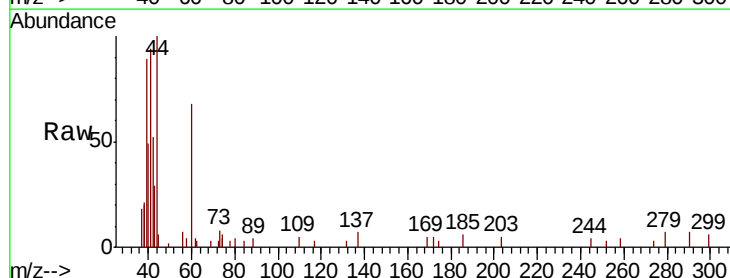
Acq: 16 Dec 2020 15:26

Tgt Ion: 41 Resp: 2729

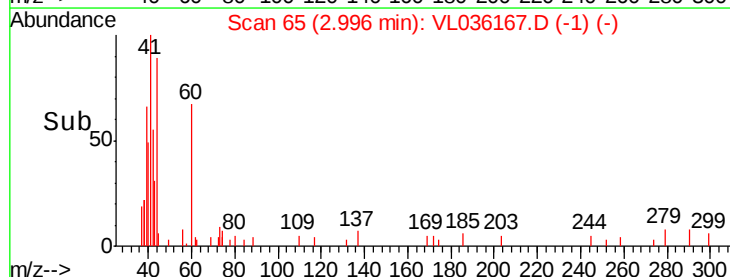
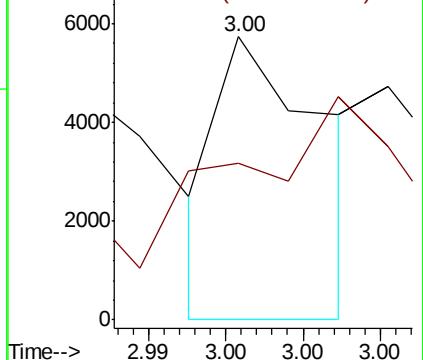
Ion Ratio Lower Upper

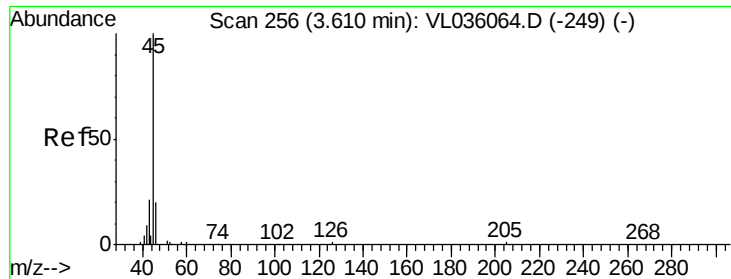
41 100

42 0.0 57.0 85.6#



Abundance Ion 41.10 (40.80 to 41.80): VL0  
Ion 42.10 (41.80 to 42.80): VL0

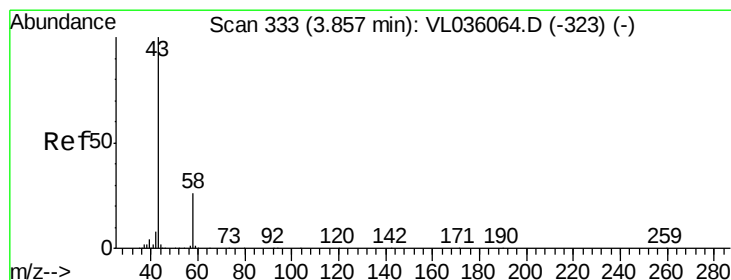
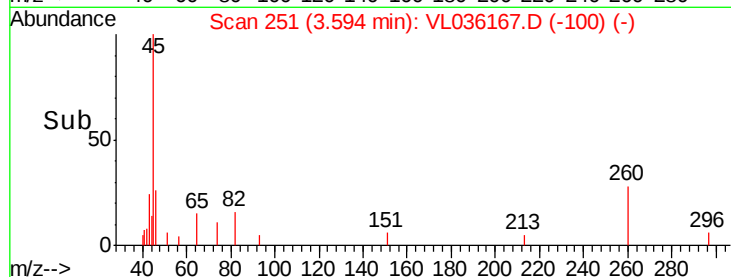
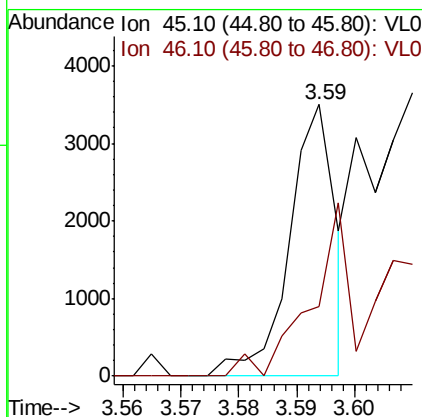
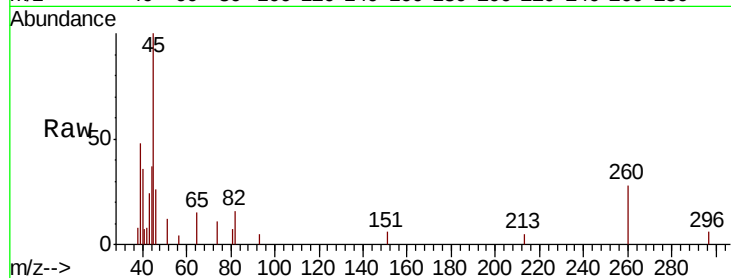




#13  
Ethanol  
Concen: 0.183 ppbv  
RT: 3.59 min Scan# 251  
Delta R.T. -0.02 min  
Lab File: VL036167.D  
Acq: 16 Dec 2020 15:26

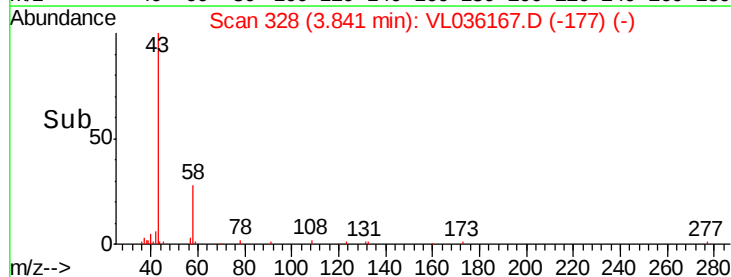
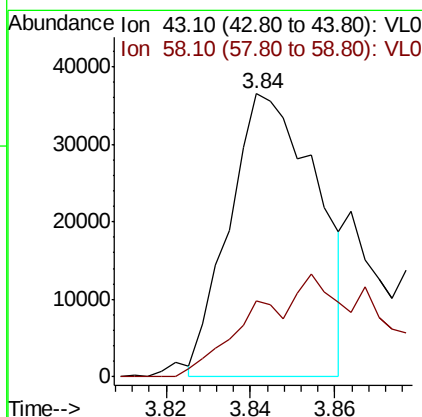
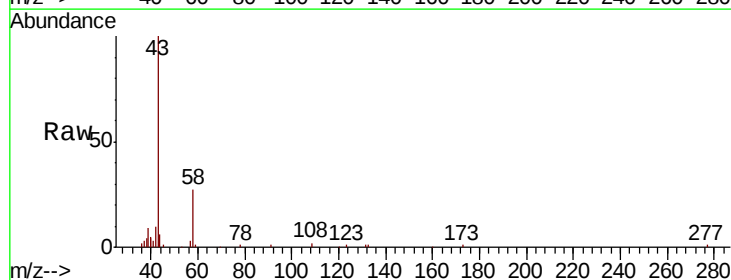
Instrument :  
MSVOA\_L  
ClientSampleId :

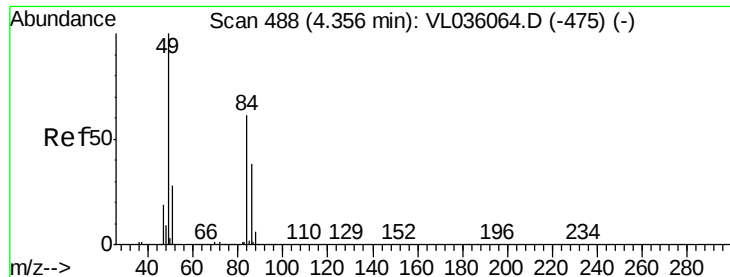
Tot Ion: 45 Resp: 1941  
Ion Ratio Lower Upper  
45 100  
46 0.0 19.0 75.8#



#15  
Acetone  
Concen: 0.325 ppbv  
RT: 3.84 min Scan# 328  
Delta R.T. -0.02 min  
Lab File: VL036167.D  
Acq: 16 Dec 2020 15:26

Tgt Ion: 43 Resp: 52417  
Ion Ratio Lower Upper  
43 100  
58 0.0 20.9 31.3#





#20

Methvlene Chloride

Concen: 0.275 ppbv

RT: 4.32 min Scan# 478

Delta R.T. -0.03 min

Lab File: VL036167.D

Acq: 16 Dec 2020 15:26

Instrument :

MSVOA\_L

ClientSampleId :

Tot Ion: 84 Resp: 18185

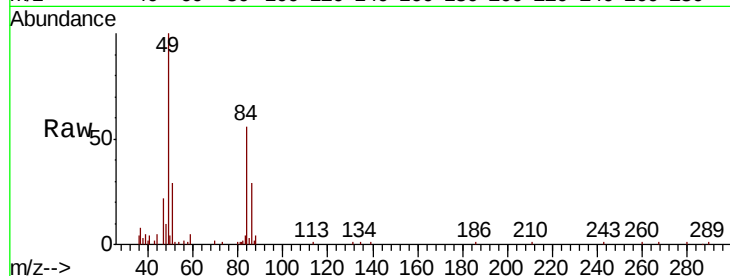
Ion Ratio Lower Upper

84 100

49 179.1 133.0 199.4

51 52.1 38.9 58.3

86 52.6 48.8 73.2

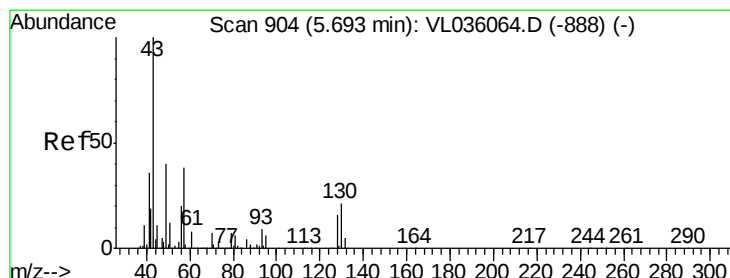
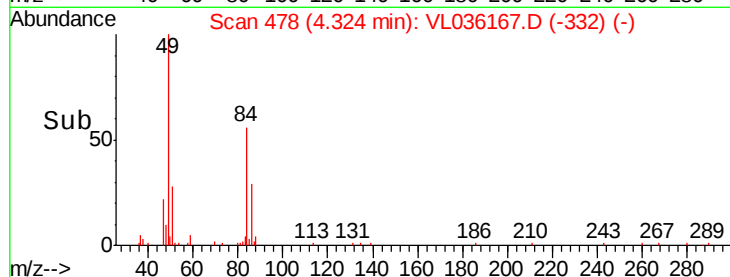
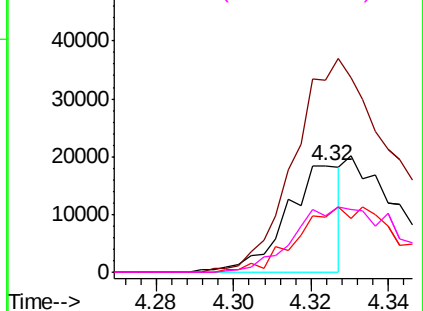


Abundance Ion 84.00 (83.70 to 84.70): VL0

Ion 49.10 (48.80 to 49.80): VL0

Ion 51.10 (50.80 to 51.80): VL0

Ion 86.00 (85.70 to 86.70): VL0



#25

Ethyl Acetate

Concen: 0.185 ppbv

RT: 5.66 min Scan# 895

Delta R.T. -0.03 min

Lab File: VL036167.D

Acq: 16 Dec 2020 15:26

Tgt Ion: 43 Resp: 59820

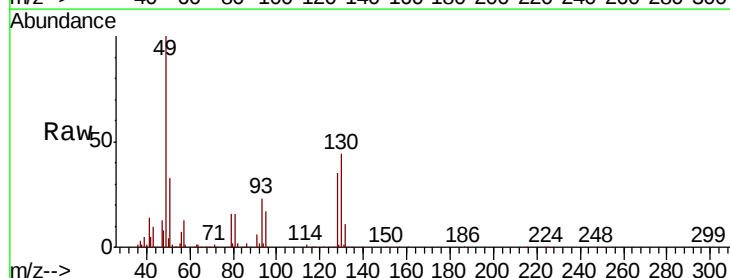
Ion Ratio Lower Upper

43 100

45 1.7 8.2 12.4#

61 0.0 7.4 11.2#

70 1.6 5.4 8.0#

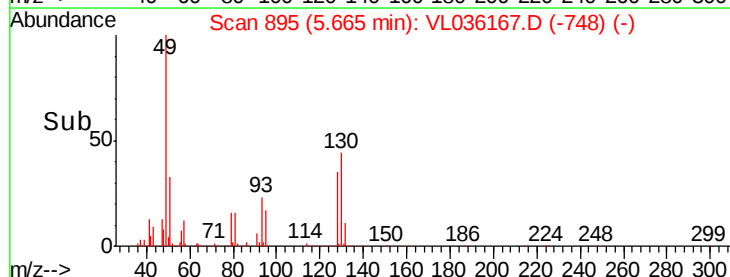
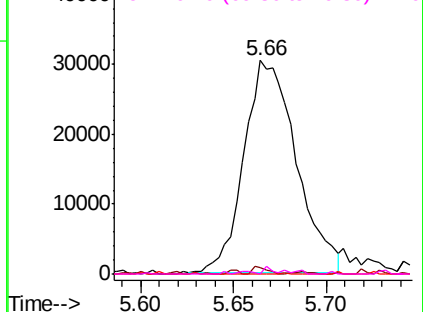


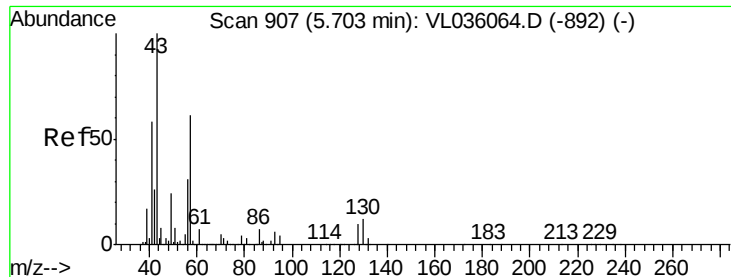
Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 45.10 (44.80 to 45.80): VL0

Ion 61.10 (60.80 to 61.80): VL0

Ion 70.10 (69.80 to 70.80): VL0

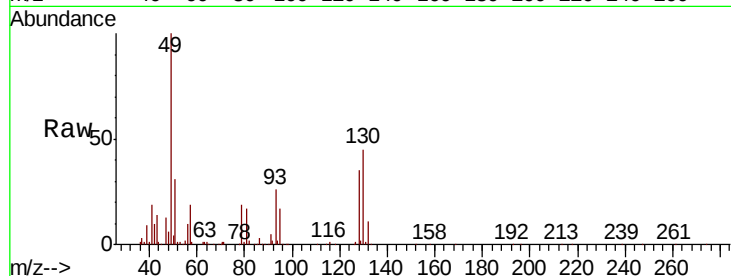




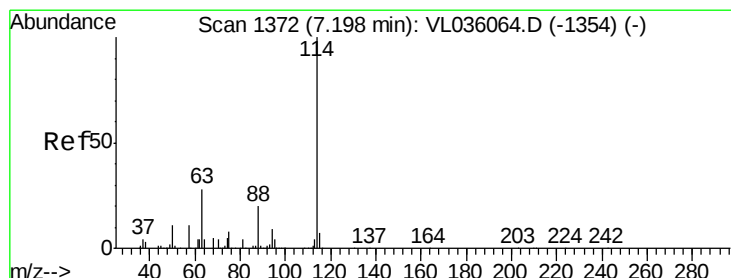
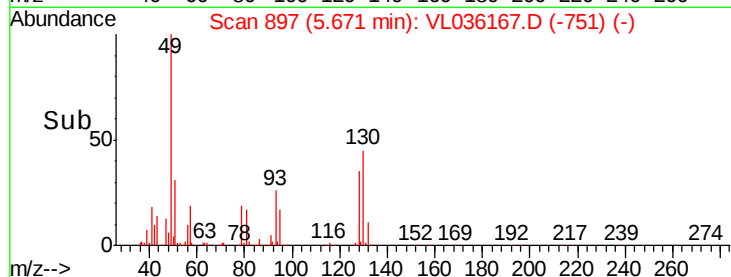
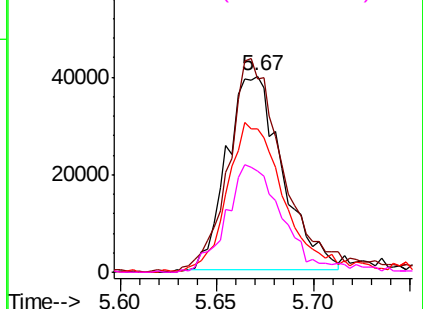
#26  
Hexane  
Concen: 0.547 ppbv  
RT: 5.67 min Scan# 897  
Delta R.T. -0.03 min  
Lab File: VL036167.D  
Acq: 16 Dec 2020 15:26

Instrument :  
MSVOA\_L  
ClientSampleId :

|          |       |       |        |
|----------|-------|-------|--------|
| Tot Ion: | 57    | Resp: | 79439  |
| Ion      | Ratio | Lower | Upper  |
| 57       | 100   |       |        |
| 41       | 115.6 | 82.9  | 124.3  |
| 43       | 80.8  | 199.9 | 299.9# |
| 56       | 57.6  | 43.1  | 64.7   |

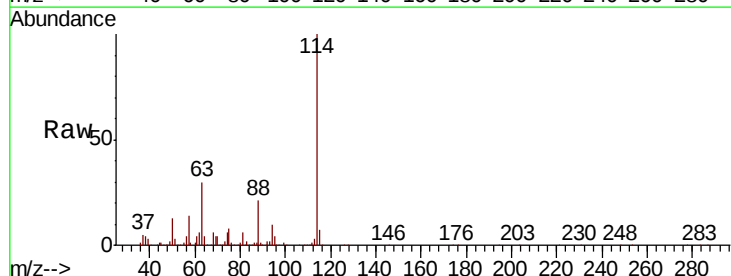


Abundance Ion 57.10 (56.80 to 57.80): VL0  
Ion 41.10 (40.80 to 41.80): VL0  
Ion 43.10 (42.80 to 43.80): VL0  
Ion 56.10 (55.80 to 56.80): VL0

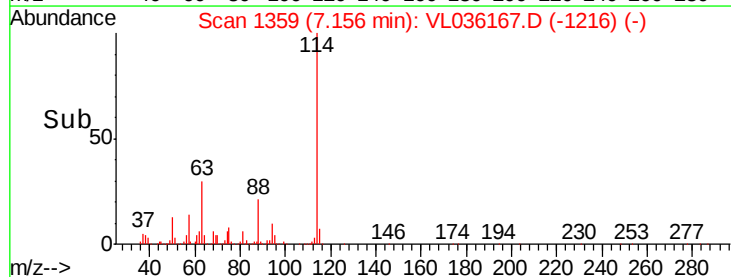
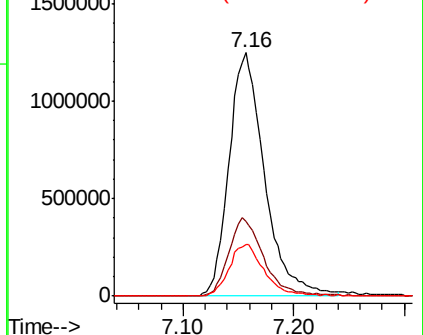


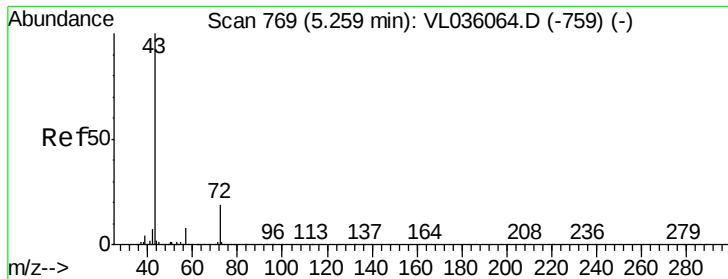
#33  
1,4-Difluorobenzene  
Concen: 10.000 ppbv  
RT: 7.16 min Scan# 1359  
Delta R.T. -0.04 min  
Lab File: VL036167.D  
Acq: 16 Dec 2020 15:26

|          |       |       |         |
|----------|-------|-------|---------|
| Tgt Ion: | 114   | Resp: | 2791488 |
| Ion      | Ratio | Lower | Upper   |
| 114      | 100   |       |         |
| 63       | 32.0  | 23.6  | 35.4    |
| 88       | 21.2  | 15.8  | 23.6    |



Abundance Ion 114.10 (113.80 to 114.80): V  
Ion 63.10 (62.80 to 63.80): VL0  
Ion 88.10 (87.80 to 88.80): VL0

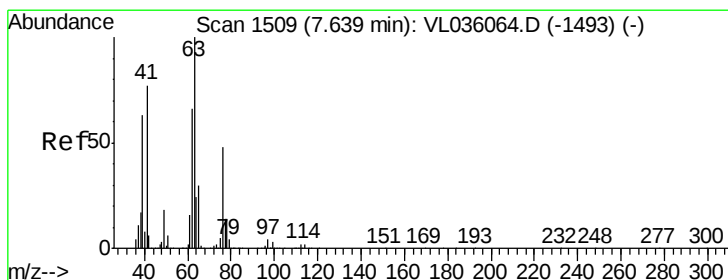
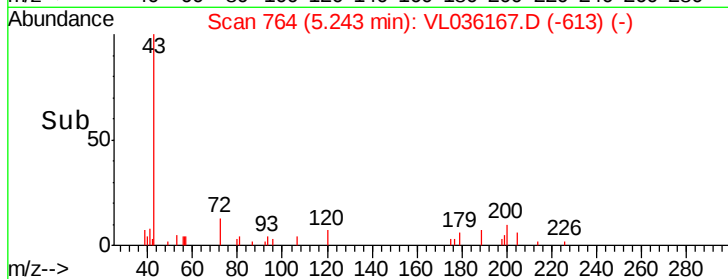
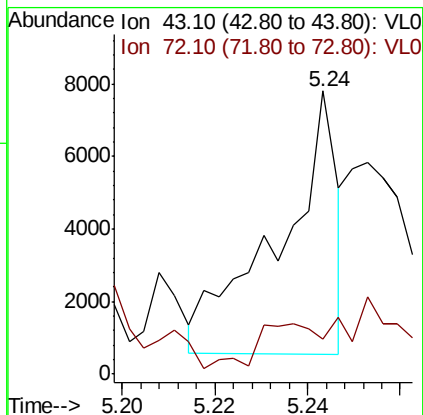
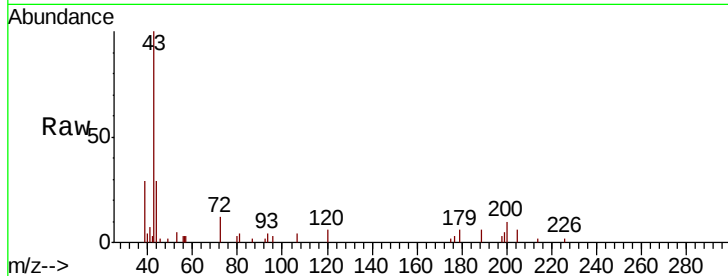




#34  
2-Butanone  
Concen: 0.034 ppbv  
RT: 5.24 min Scan# 764  
Delta R.T. -0.02 min  
Lab File: VL036167.D  
Acq: 16 Dec 2020 15:26

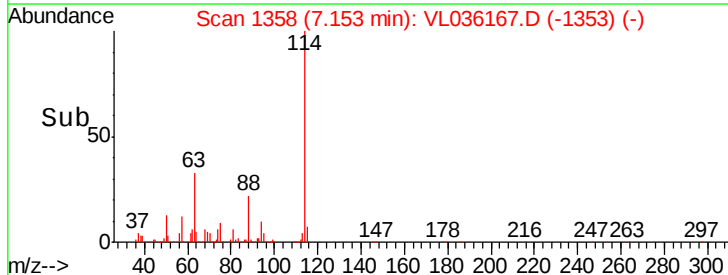
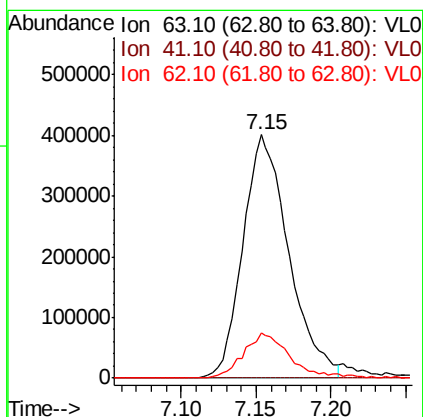
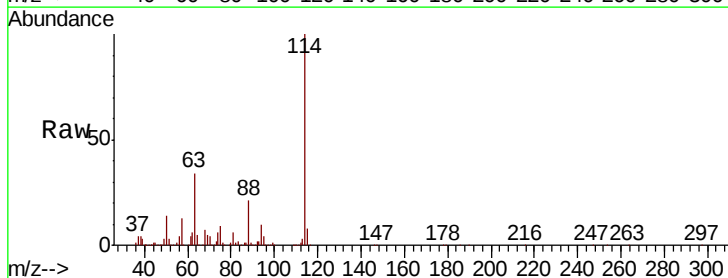
Instrument :  
MSVOA\_L  
ClientSampled :

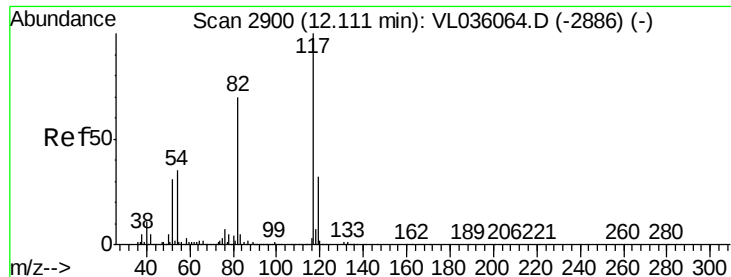
Tot Ion: 43 Resp: 6298  
Ion Ratio Lower Upper  
43 100  
72 0.0 16.5 24.7#



#39  
1,2-Dichloropropane  
Concen: 9.127 ppbv  
RT: 7.15 min Scan# 1358  
Delta R.T. -0.49 min  
Lab File: VL036167.D  
Acq: 16 Dec 2020 15:26

Tgt Ion: 63 Resp: 852736  
Ion Ratio Lower Upper  
63 100  
41 0.0 61.9 92.9#  
62 18.5 52.5 78.7#





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.07 min Scan# 2887

Delta R.T. -0.04 min

Lab File: VL036167.D

Acq: 16 Dec 2020 15:26

Instrument :

MSVOA\_L

ClientSampleId :

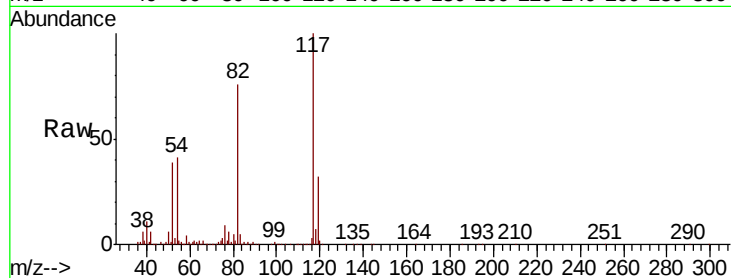
Tot Ion:117 Resp: 2499144

Ion Ratio Lower Upper

117 100

82 77.0 0.0 0.0#

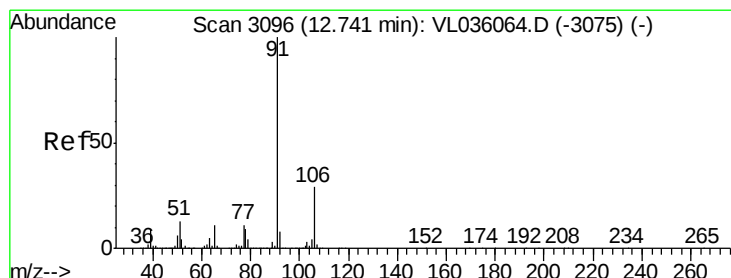
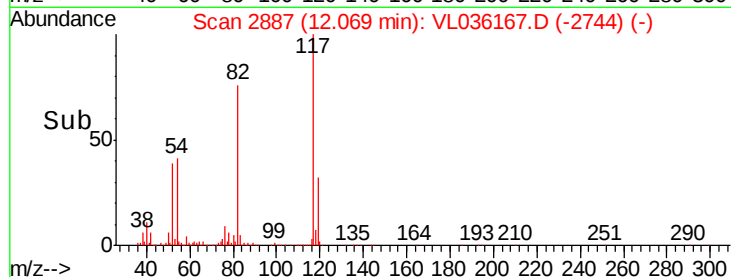
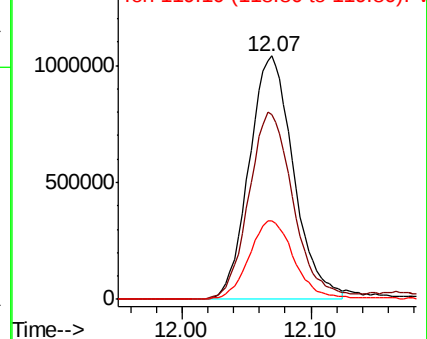
119 33.6 0.0 0.0#



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



#58

Ethyl Benzene

Concen: 0.039 ppbv

RT: 12.70 min Scan# 3082

Delta R.T. -0.04 min

Lab File: VL036167.D

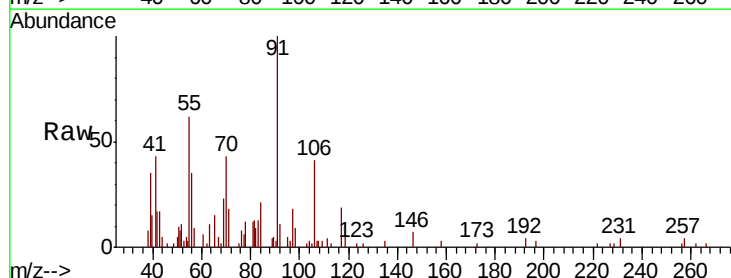
Acq: 16 Dec 2020 15:26

Tgt Ion: 91 Resp: 13263

Ion Ratio Lower Upper

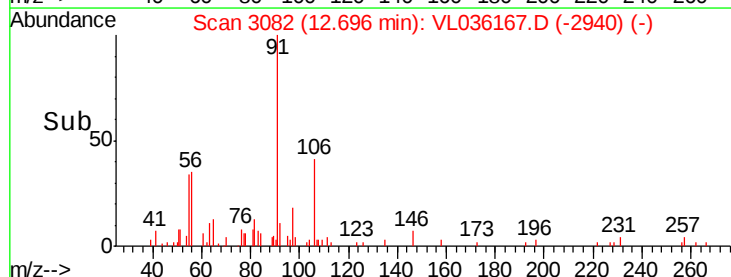
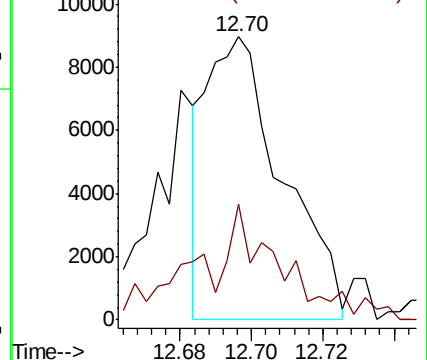
91 100

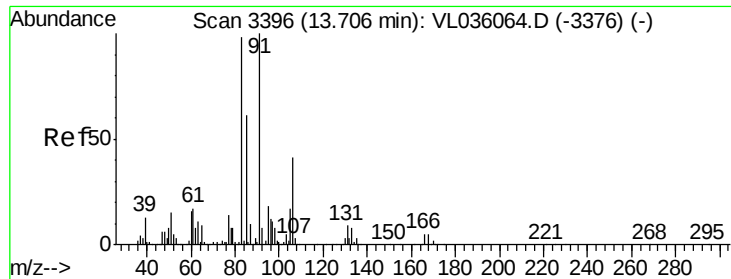
106 32.1 23.0 34.4



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V

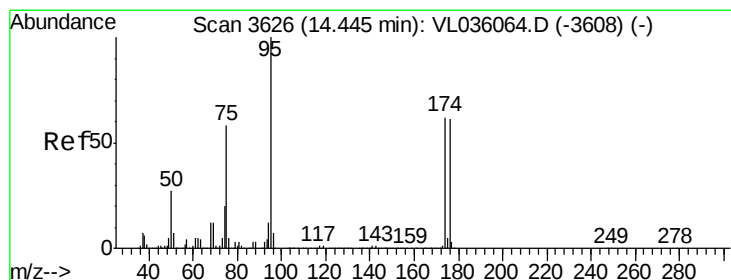
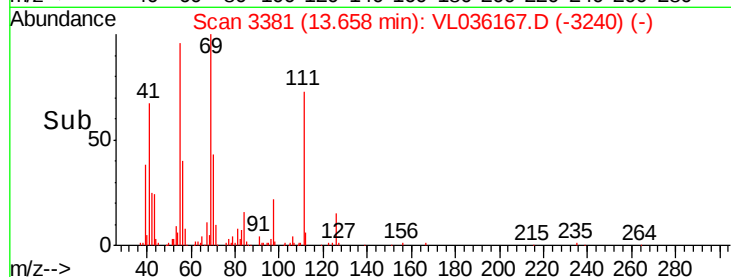
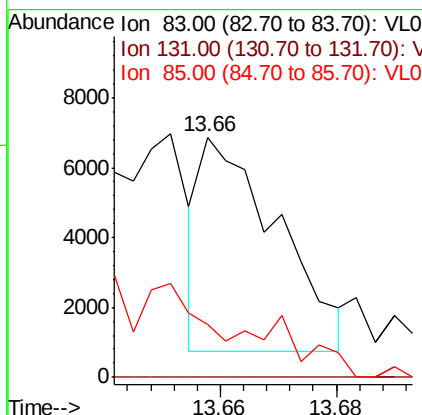
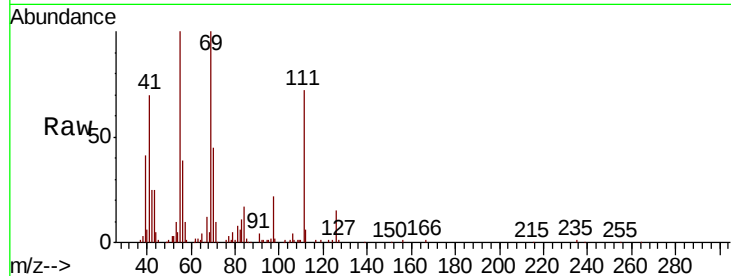




#63  
 1,1,2,2-Tetrachloroethane  
 Concen: 0.031 ppbv  
 RT: 13.66 min Scan# 3381  
 Delta R.T. -0.05 min  
 Lab File: VL036167.D  
 Acq: 16 Dec 2020 15:26

Instrument :  
 MSVOA\_L  
 ClientSampleId :

Tot Ion: 83 Resp: 5679  
 Ion Ratio Lower Upper  
 83 100  
 131 0.0 4.6 13.8#  
 85 0.0 32.5 97.5#



#68  
 1-Bromo-4-Fluorobenzene  
 Concen: 11.195 ppbv  
 RT: 14.40 min Scan# 3612  
 Delta R.T. -0.04 min  
 Lab File: VL036167.D  
 Acq: 16 Dec 2020 15:26

Tgt Ion: 95 Resp: 2221520  
 Ion Ratio Lower Upper  
 95 100  
 174 56.3 50.7 76.1  
 175 4.1 4.0 6.0

