

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL040221\  
 Data File : VL036658.D  
 Acq On : 2 Apr 2021 23:35  
 Operator : SY/AP  
 Sample : M1853-02DL 40X  
 Misc : 400mL/MSVOA L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :

Quant Time: Apr 03 02:59:29 2021  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL032521AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Thu Mar 25 09:42:40 2021  
 QLast Update : Thu Mar 25 09:42:40 2021  
 Response via : Initial Calibration

| Internal Standards      | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------|-------|------|----------|-------|-------|----------|
| 1) Bromochloromethane   | 5.65  | 49   | 1276737  | 10.00 | ppbv  | -0.03    |
| 33) 1,4-Difluorobenzene | 7.15  | 114  | 3345057  | 10.00 | ppbv  | -0.03    |
| 55) Chlorobenzene-d5    | 12.06 | 117  | 2948123  | 10.00 | ppbv  | -0.03    |

|                             |        |       |          |          |      |        |
|-----------------------------|--------|-------|----------|----------|------|--------|
| System Monitoring Compounds |        |       |          |          |      |        |
| 68) 1-Bromo-4-Fluorobenzene | 14.39  | 95    | 2319694  | 9.87     | ppbv | -0.03  |
| Spiked Amount               | 10.000 | Range | 65 - 135 | Recovery | =    | 98.70% |

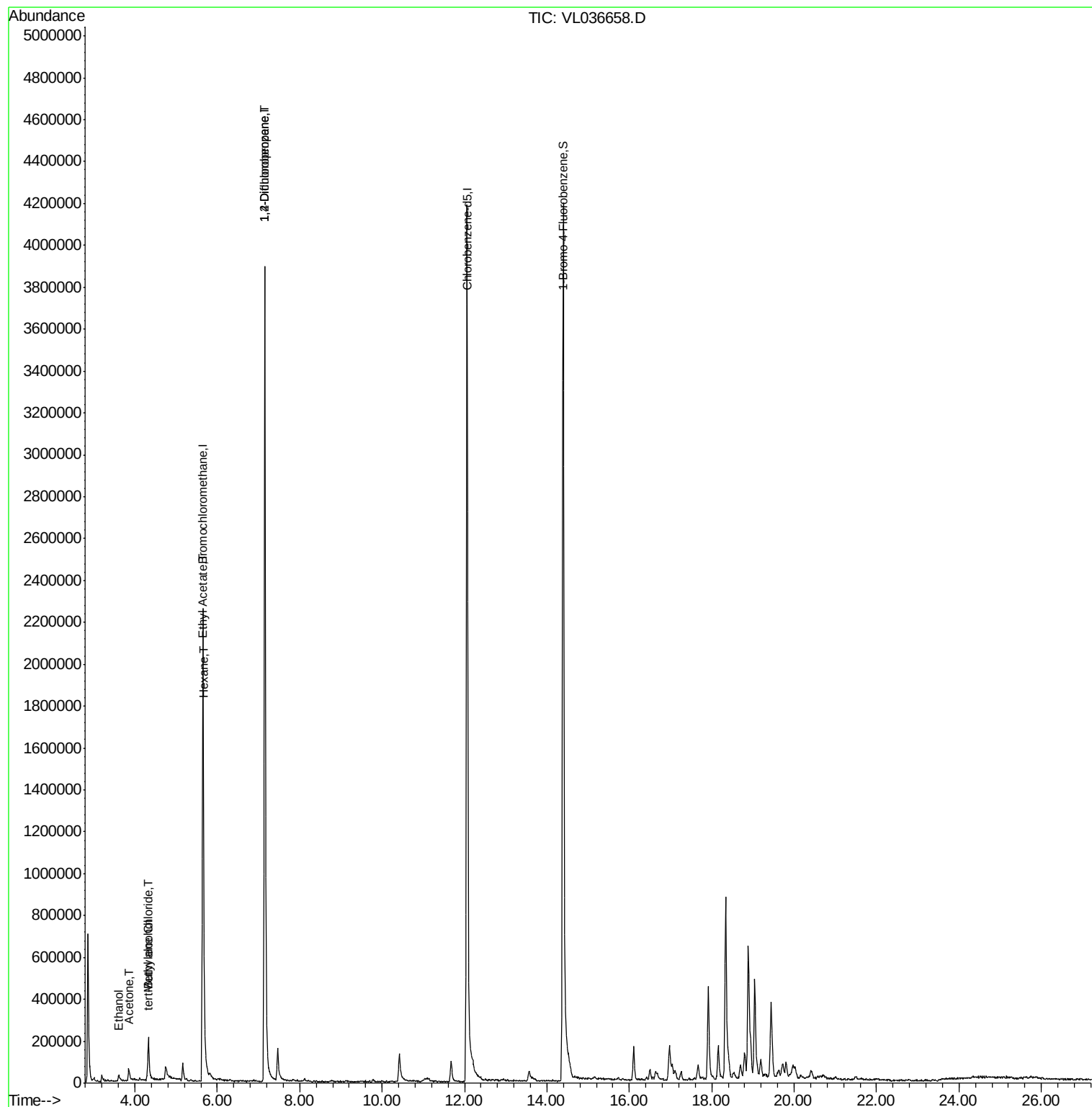
| Target Compounds        | R.T. | QIon | Response | Conc  | Units  | Ovalue |
|-------------------------|------|------|----------|-------|--------|--------|
| 13) Ethanol             | 3.60 | 45   | 12916    | 1.426 | ppbv # | 1      |
| 15) Acetone             | 3.84 | 43   | 66417    | 0.529 | ppbv # | 49     |
| 17) tert-Butyl alcohol  | 4.30 | 59   | 39947    | 0.365 | ppbv   | 97     |
| 20) Methylene Chloride  | 4.33 | 84   | 71316    | 1.212 | ppbv   | 97     |
| 25) Ethyl Acetate       | 5.66 | 43   | 36194    | 0.121 | ppbv # | 81     |
| 26) Hexane              | 5.67 | 57   | 56736    | 0.409 | ppbv # | 44     |
| 39) 1,2-Dichloropropane | 7.15 | 63   | 876365   | 7.003 | ppbv # | 23     |

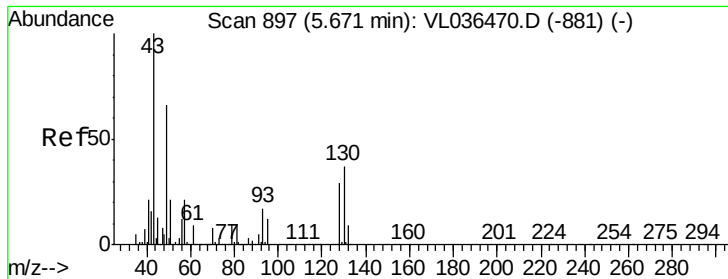
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Thu Mar 25 09:42:40 2021  
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.65 min Scan# 889

Delta R.T. -0.03 min

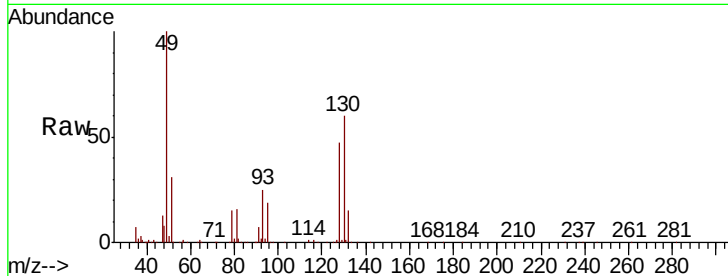
Lab File: VL036658.D

Acq: 2 Apr 2021 23:35

Instrument :  
MSVOA\_L  
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Tot Ion: 49 Resp: 1276737

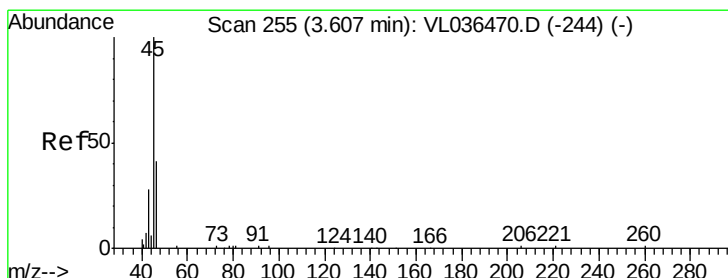
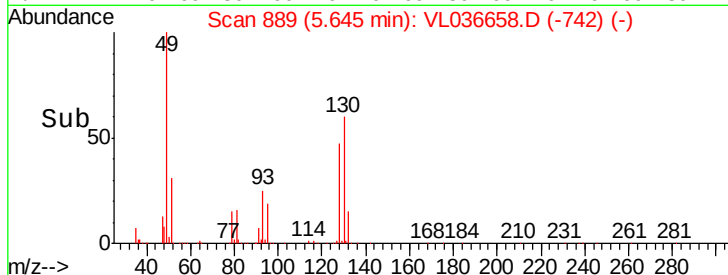
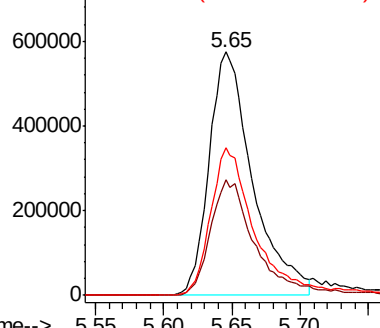
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 49  | 100   |       |       |
| 128 | 50.3  | 23.5  | 70.6  |
| 130 | 63.6  | 29.1  | 87.4  |



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



#13

Ethanol

Concen: 1.426 ppbv

RT: 3.60 min Scan# 253

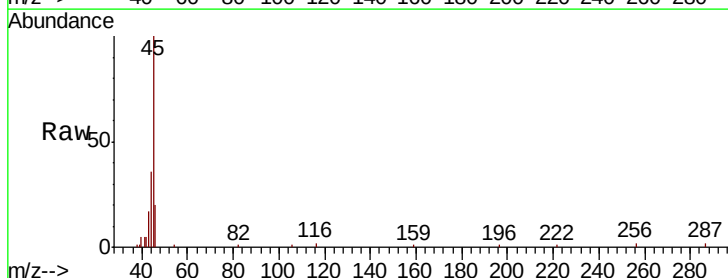
Delta R.T. -0.01 min

Lab File: VL036658.D

Acq: 2 Apr 2021 23:35

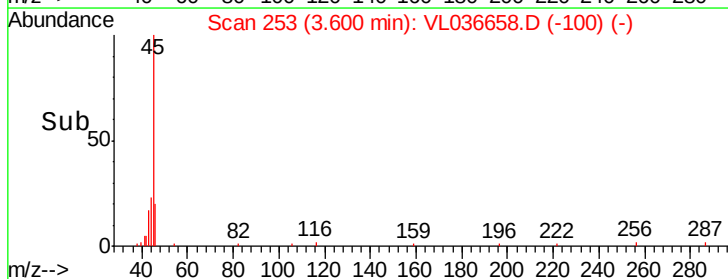
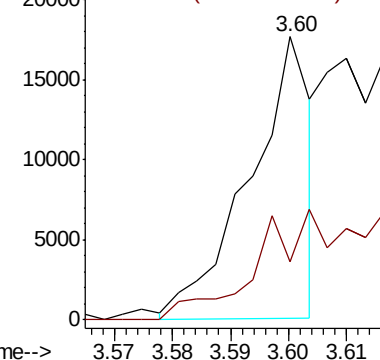
Tgt Ion: 45 Resp: 12916

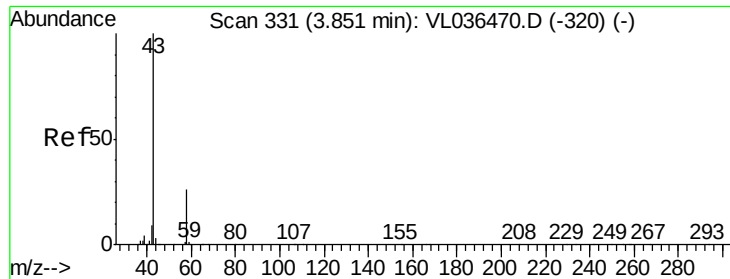
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 45  | 100   |       |       |
| 46  | 120.7 | 16.6  | 66.2  |



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 46.10 (45.80 to 46.80): VL0

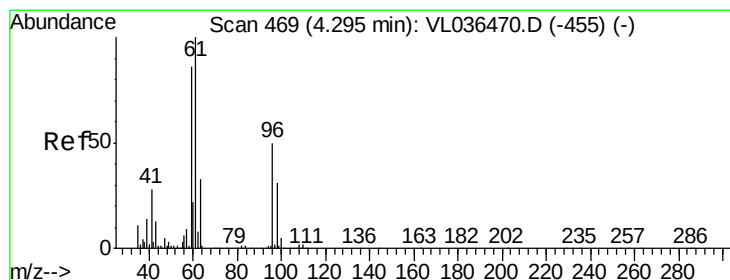
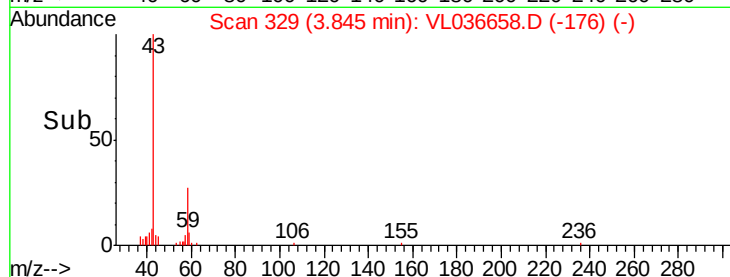
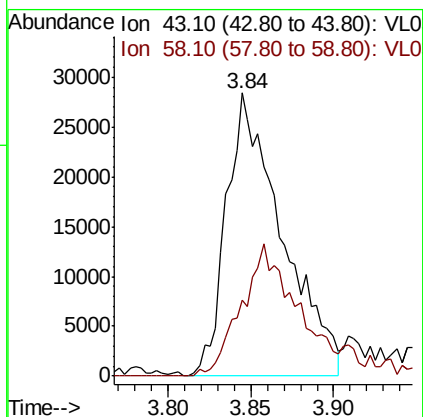
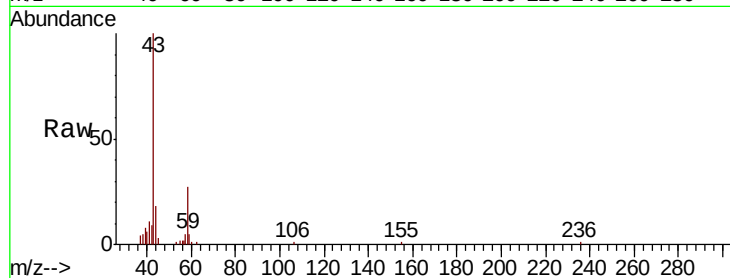




#15  
Acetone  
Concen: 0.529 ppbv  
RT: 3.84 min Scan# 329  
Delta R.T. -0.01 min  
Lab File: VL036658.D  
Acq: 2 Apr 2021 23:35

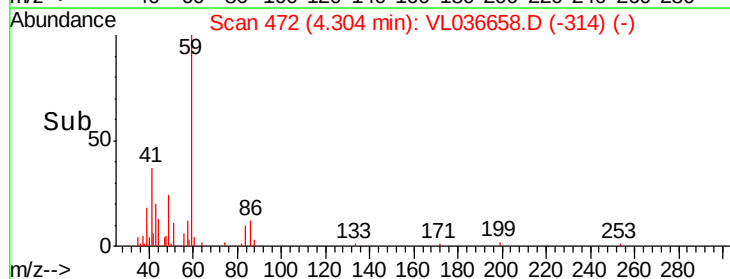
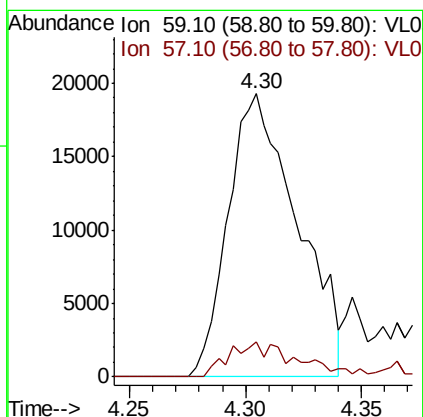
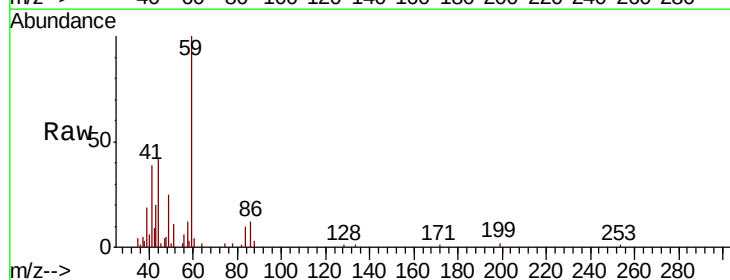
Instrument :  
MSVOA\_L  
ClientSampleId :

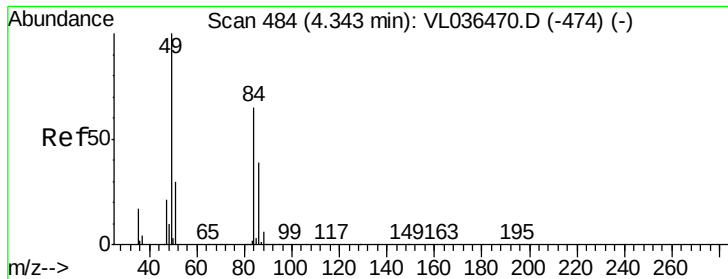
Tot Ion: 43 Resp: 66417  
Ion Ratio Lower Upper  
43 100  
58 52.5 21.2 31.8#



#17  
tert-Butyl alcohol  
Concen: 0.365 ppbv  
RT: 4.30 min Scan# 472  
Delta R.T. 0.01 min  
Lab File: VL036658.D  
Acq: 2 Apr 2021 23:35

Tgt Ion: 59 Resp: 39947  
Ion Ratio Lower Upper  
59 100  
57 11.9 8.6 12.8

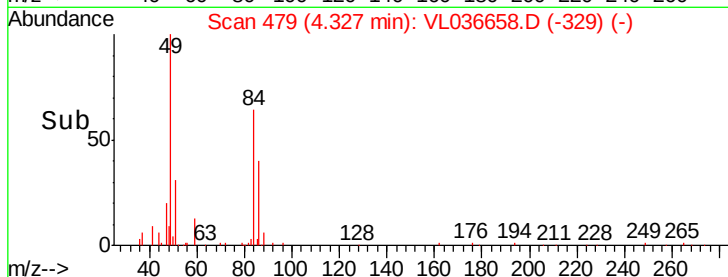
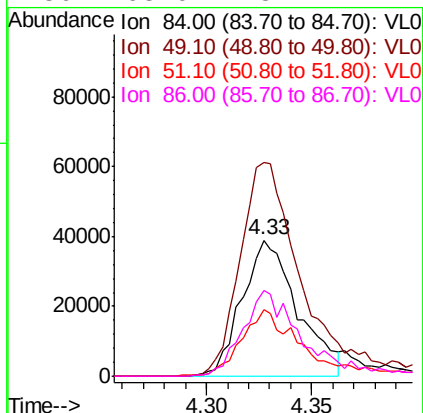
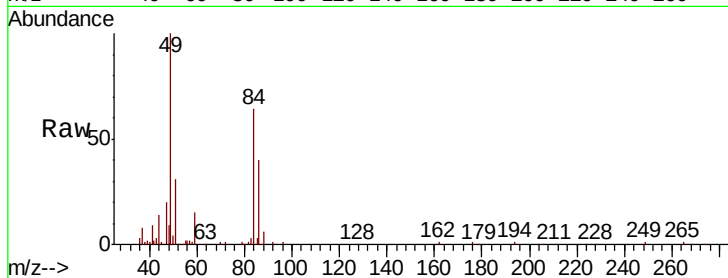




#20  
Methylene Chloride  
Concen: 1.212 ppbv  
RT: 4.33 min Scan# 479  
Delta R.T. -0.02 min  
Lab File: VL036658.D  
Acq: 2 Apr 2021 23:35

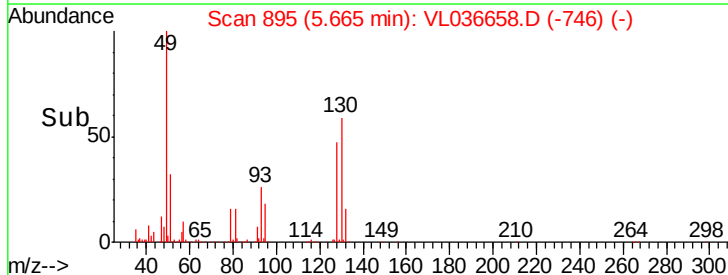
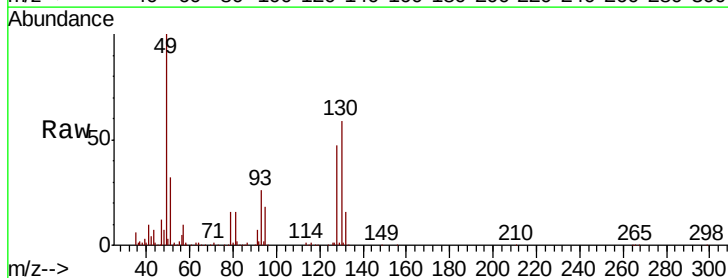
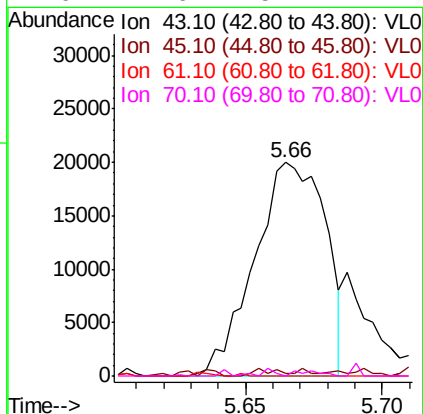
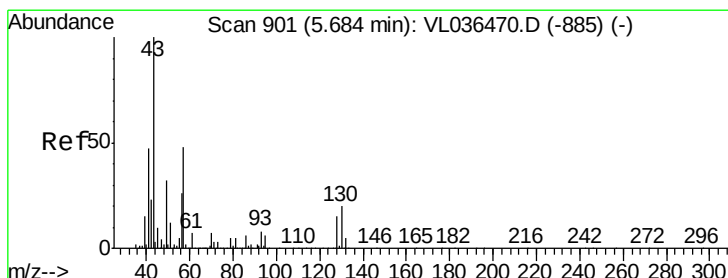
Instrument :  
MSVOA\_L  
ClientSampleId :

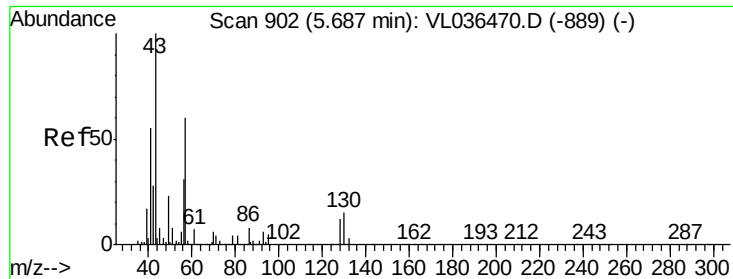
| Tot Ion: | 84    | Resp: | 71316 |
|----------|-------|-------|-------|
| Ion      | Ratio | Lower | Upper |
| 84       | 100   |       |       |
| 49       | 157.2 | 122.9 | 184.3 |
| 51       | 47.8  | 36.9  | 55.3  |
| 86       | 63.0  | 48.2  | 72.4  |



#25  
Ethyl Acetate  
Concen: 0.121 ppbv  
RT: 5.66 min Scan# 895  
Delta R.T. -0.02 min  
Lab File: VL036658.D  
Acq: 2 Apr 2021 23:35

| Tgt Ion: | 43    | Resp: | 36194 |
|----------|-------|-------|-------|
| Ion      | Ratio | Lower | Upper |
| 43       | 100   |       |       |
| 45       | 4.0   | 7.9   | 11.9# |
| 61       | 0.5   | 7.4   | 11.2# |
| 70       | 1.6   | 5.1   | 7.7#  |

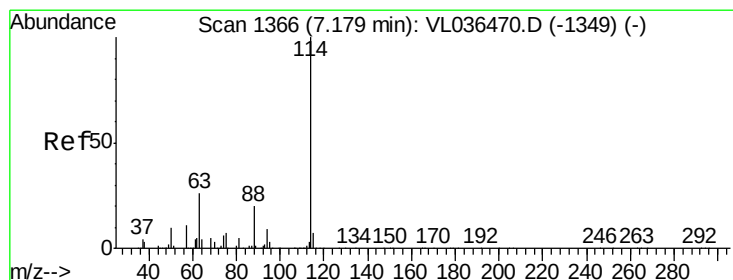
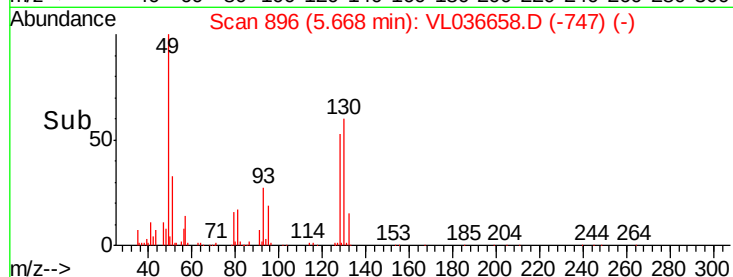
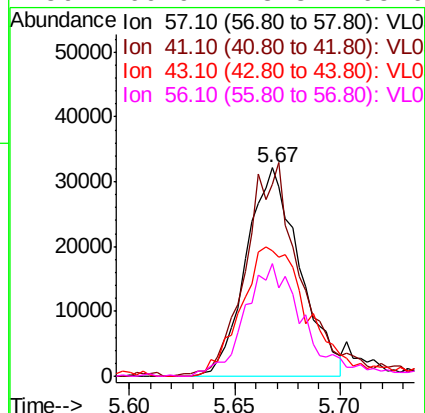
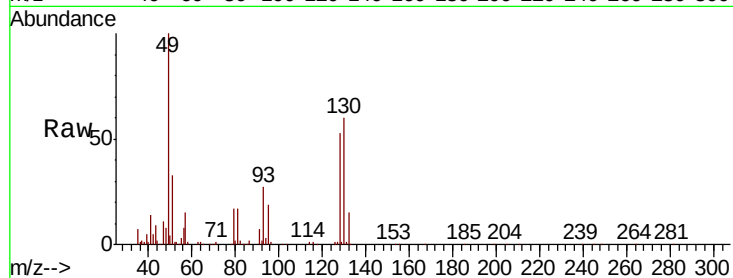




#26  
Hexane  
Concen: 0.409 ppbv  
RT: 5.67 min Scan# 896  
Delta R.T. -0.02 min  
Lab File: VL036658.D  
Acq: 2 Apr 2021 23:35

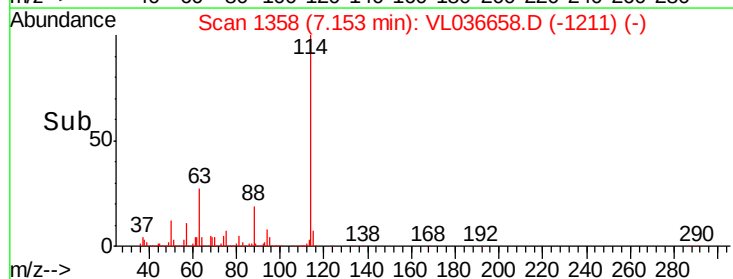
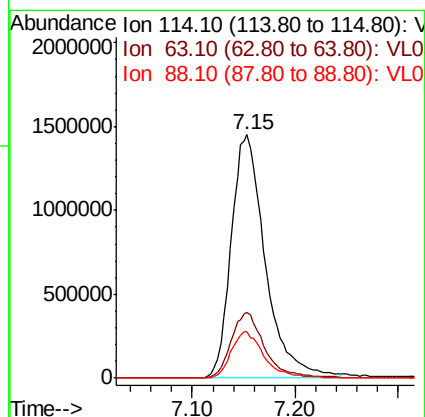
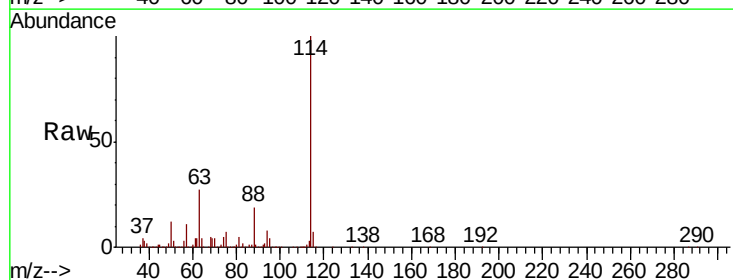
Instrument :  
MSVOA\_L  
ClientSampled :

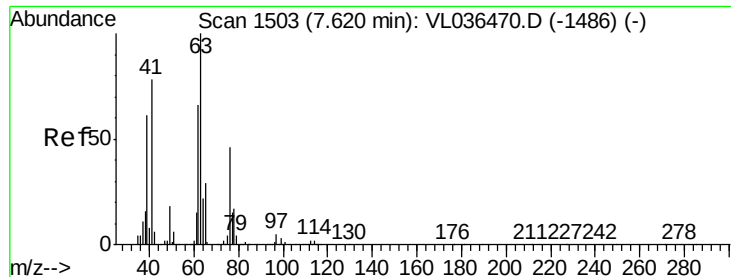
Tot Ion: 57 Resp: 56736  
Ion Ratio Lower Upper  
57 100  
41 111.3 77.2 115.8  
43 80.3 173.8 260.6#  
56 60.9 43.8 65.6



#33  
1,4-Difluorobenzene  
Concen: 10.000 ppbv  
RT: 7.15 min Scan# 1358  
Delta R.T. -0.03 min  
Lab File: VL036658.D  
Acq: 2 Apr 2021 23:35

Tgt Ion:114 Resp: 3345057  
Ion Ratio Lower Upper  
114 100  
63 27.0 22.4 33.6  
88 18.9 15.4 23.0

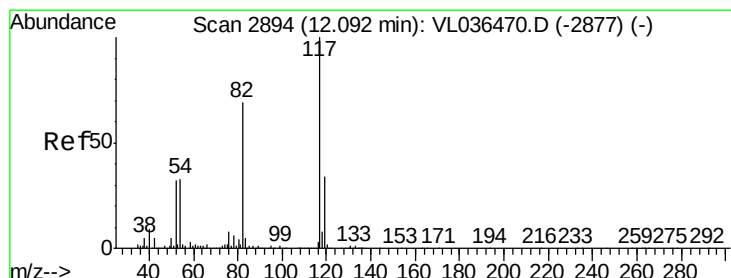
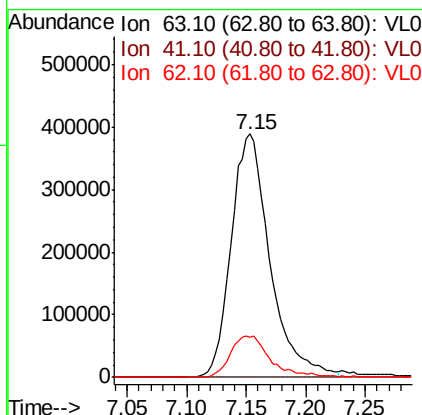
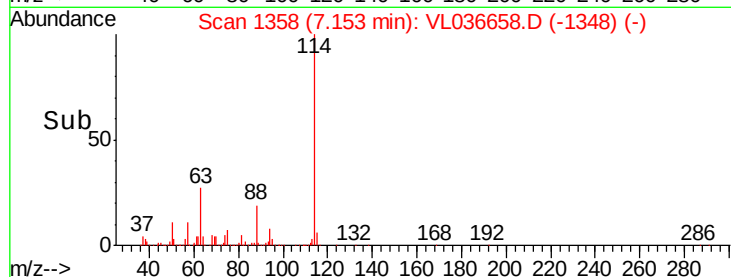
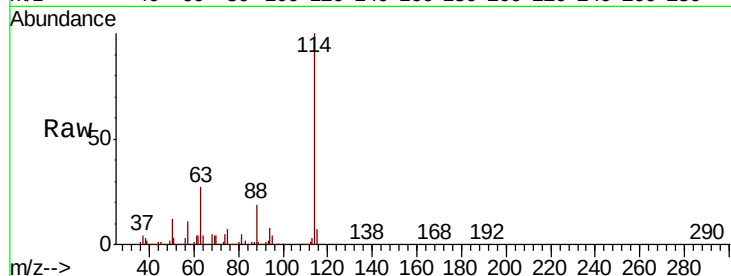




#39  
 1,2-Dichloropropane  
 Concen: 7.003 ppbv  
 RT: 7.15 min Scan# 1358  
 Delta R.T. -0.47 min  
 Lab File: VL036658.D  
 Acq: 2 Apr 2021 23:35

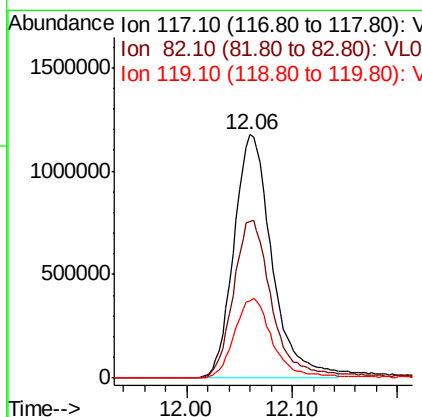
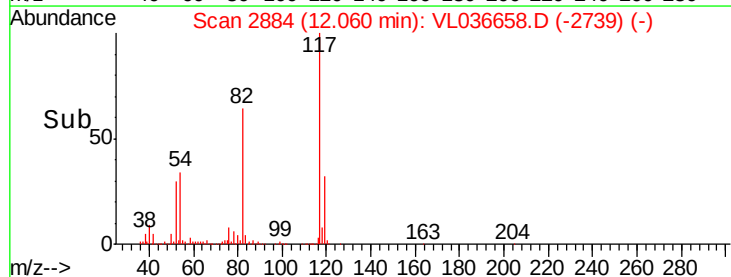
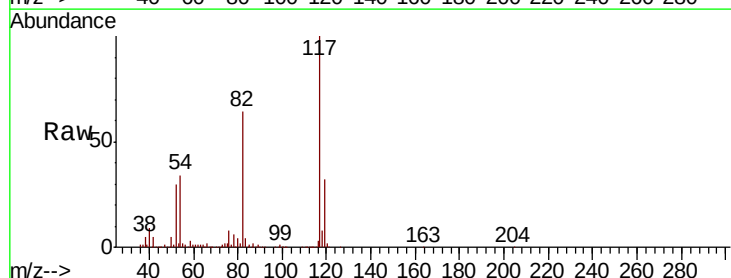
Instrument :  
 MSVOA\_L  
 ClientSampled :

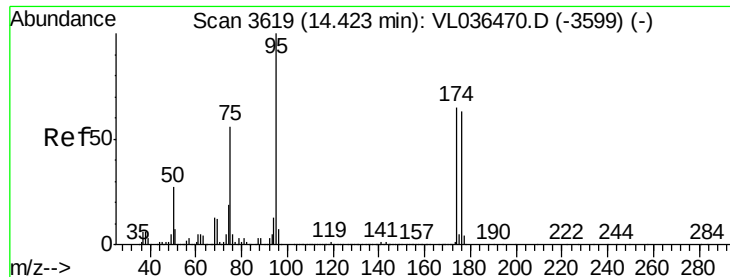
Tot Ion: 63 Resp: 876365  
 Ion Ratio Lower Upper  
 63 100  
 41 0.1 62.4 93.6#  
 62 16.5 52.8 79.2#



#55  
 Chlorobenzene-d5  
 Concen: 10.000 ppbv  
 RT: 12.06 min Scan# 2884  
 Delta R.T. -0.03 min  
 Lab File: VL036658.D  
 Acq: 2 Apr 2021 23:35

Tgt Ion: 117 Resp: 2948123  
 Ion Ratio Lower Upper  
 117 100  
 82 68.2 57.4 86.0  
 119 33.4 47.4 71.0#





#68

1-Bromo-4-Fluorobenzene

Concen: 9.872 ppbv

RT: 14.39 min Scan# 3610

Delta R.T. -0.03 min

Lab File: VL036658.D

Acq: 2 Apr 2021 23:35

Instrument :

MSVOA\_L

ClientSampleId :

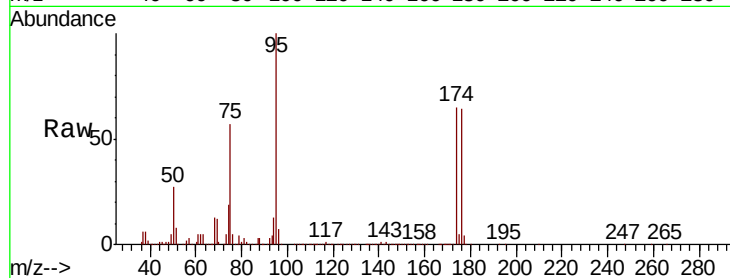
Tot Ion: 95 Resp: 2319694

Ion Ratio Lower Upper

95 100

174 70.1 51.0 76.6

175 5.3 3.9 5.9



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

