

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL062619\  
 Data File : VL033984.D  
 Acq On : 27 Jun 2019 1:57  
 Operator : SY/AP  
 Sample : OC062119 CAN 10154  
 Misc : 400ml/MSVOA L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :

Quant Time: Jun 27 03:56:27 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL060719AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Jun 07 08:53:27 2019  
 QLast Update : Fri Jun 07 08:53:27 2019  
 Response via : Initial Calibration

| Internal Standards      | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------|-------|------|----------|-------|-------|----------|
| 1) Bromochloromethane   | 5.74  | 49   | 760407   | 10.00 | ppbv  | -0.02    |
| 33) 1,4-Difluorobenzene | 7.26  | 114  | 1719202  | 10.00 | ppbv  | -0.02    |
| 55) Chlorobenzene-d5    | 12.21 | 117  | 1657590  | 10.00 | ppbv  | -0.02    |

System Monitoring Compounds

|                             |        |       |          |          |      |         |
|-----------------------------|--------|-------|----------|----------|------|---------|
| 68) 1-Bromo-4-Fluorobenzene | 14.54  | 95    | 1408644  | 10.35    | ppbv | -0.02   |
| Spiked Amount               | 10.000 | Range | 65 - 135 | Recovery | =    | 103.50% |

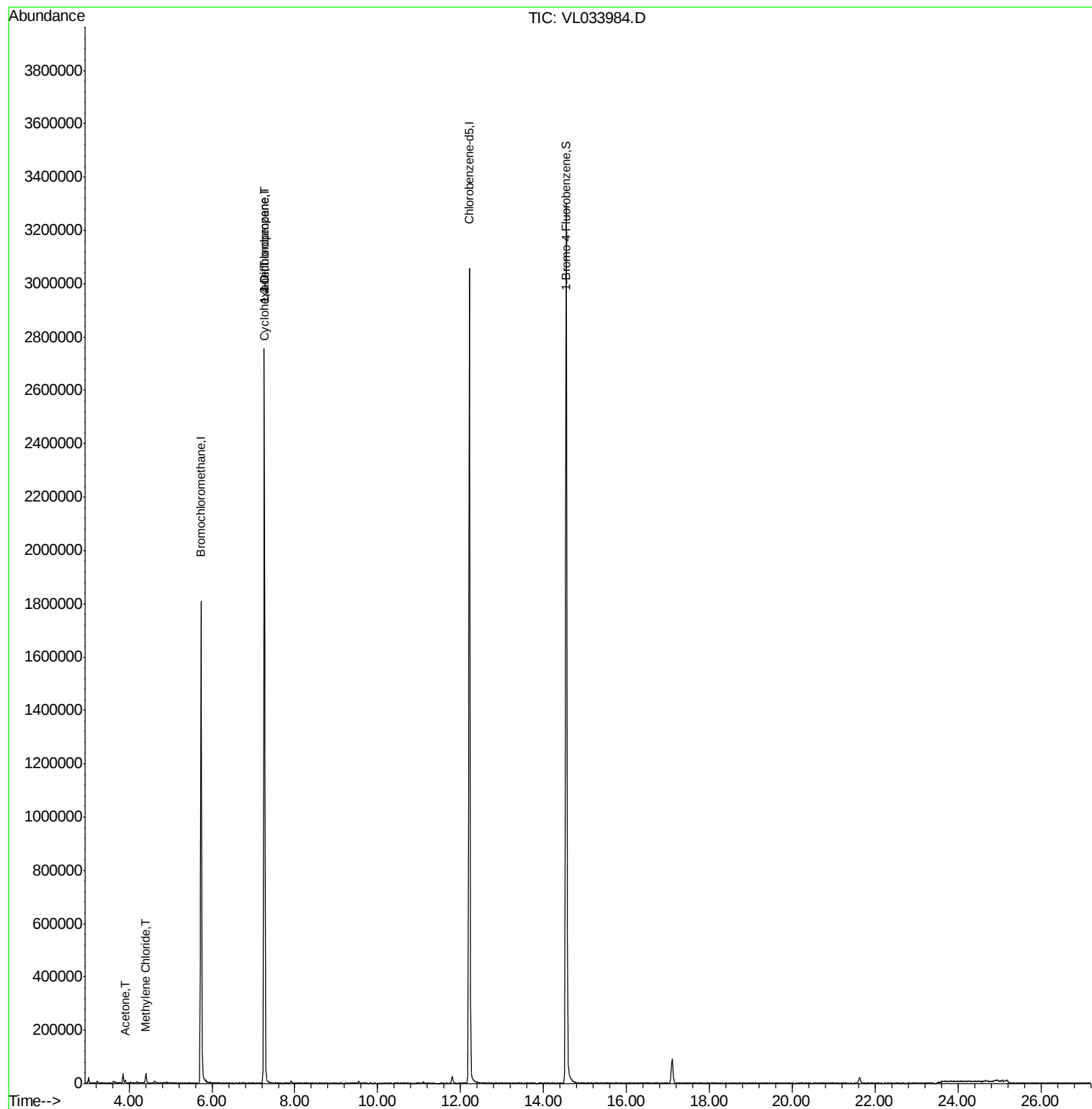
| Target Compounds        | R.T. | QIon | Response | Conc  | Units  | Ovalue |
|-------------------------|------|------|----------|-------|--------|--------|
| 15) Acetone             | 3.90 | 43   | 5901     | 0.053 | ppbv # | 48     |
| 20) Methylene Chloride  | 4.39 | 84   | 3034     | 0.070 | ppbv # | 90     |
| 30) Cyclohexane         | 7.25 | 84   | 2930     | 0.054 | ppbv # | 1      |
| 39) 1,2-Dichloropropane | 7.26 | 63   | 466006   | 9.194 | ppbv # | 27     |

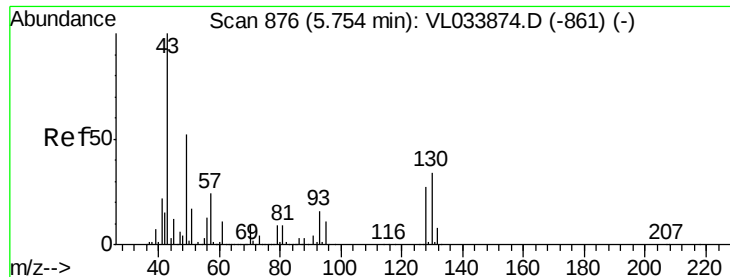
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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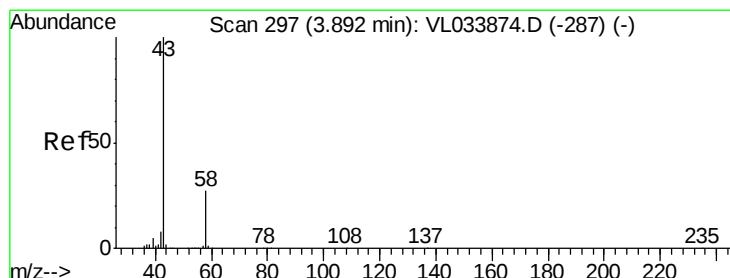
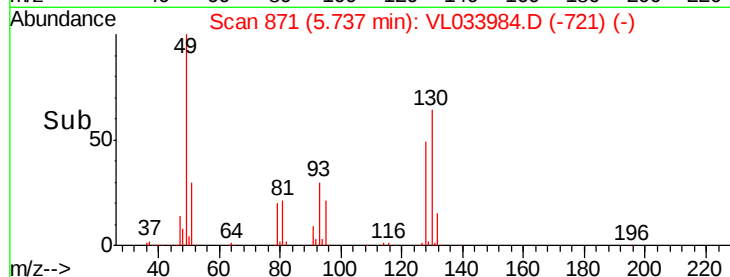
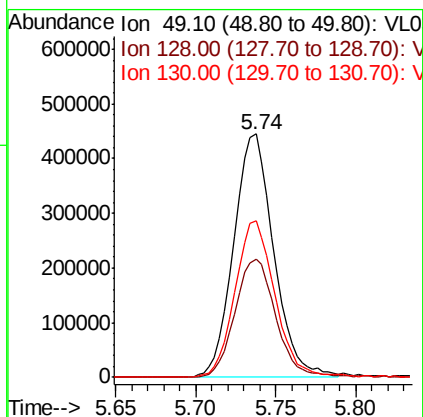
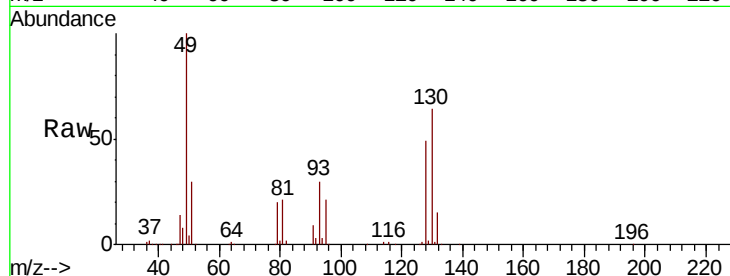




#1  
 Bromochloromethane  
 Concen: 10.000 ppbv  
 RT: 5.74 min Scan# 871  
 Delta R.T. -0.02 min  
 Lab File: VL033984.D  
 Acq: 27 Jun 2019 1:57

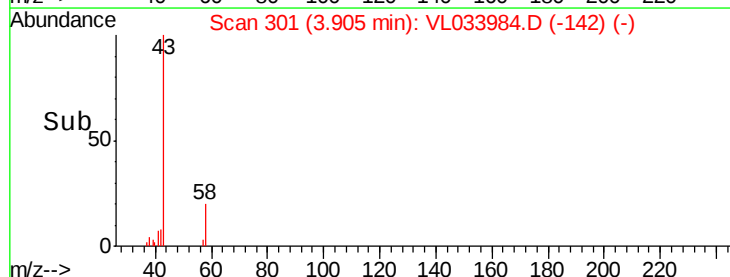
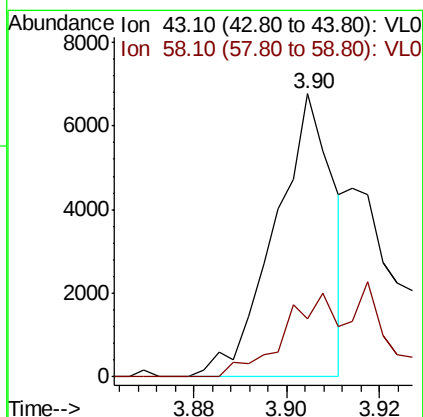
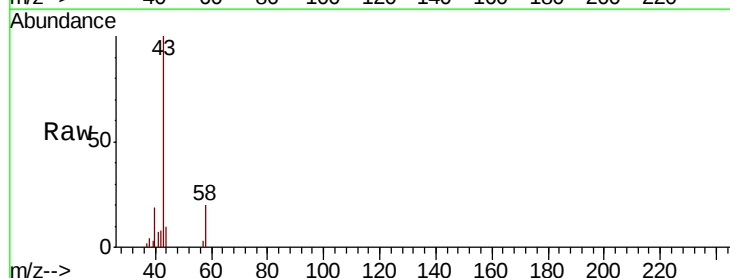
Instrument :  
 MSVOA\_L  
 ClientSampleId :

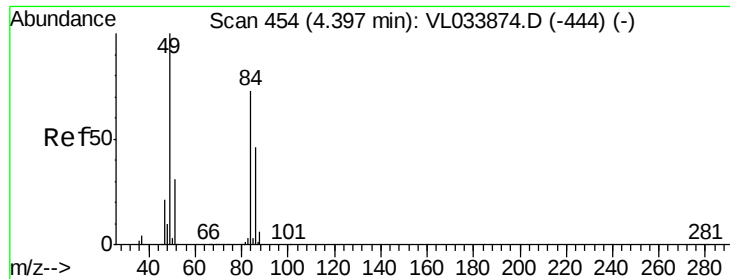
| Tot Ion   | 49    | Resp  | 760407 |
|-----------|-------|-------|--------|
| Ion Ratio | Lower | Upper |        |
| 49        | 100   |       |        |
| 128       | 49.7  | 25.5  | 76.5   |
| 130       | 64.5  | 32.5  | 97.4   |



#15  
 Acetone  
 Concen: 0.053 ppbv  
 RT: 3.90 min Scan# 301  
 Delta R.T. 0.01 min  
 Lab File: VL033984.D  
 Acq: 27 Jun 2019 1:57

| Tgt Ion   | 43    | Resp  | 5901  |
|-----------|-------|-------|-------|
| Ion Ratio | Lower | Upper |       |
| 43        | 100   |       |       |
| 58        | 0.0   | 21.3  | 31.9# |

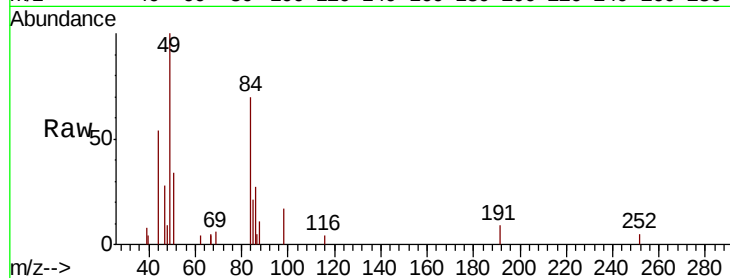




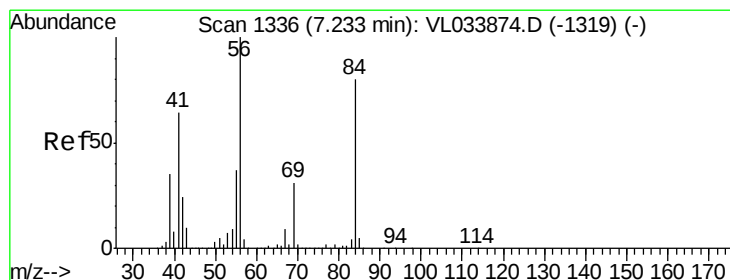
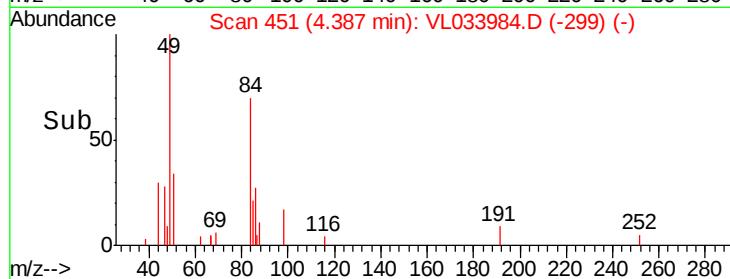
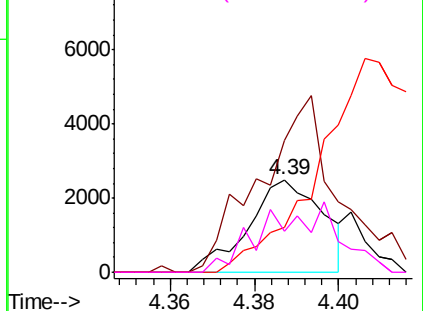
#20  
Methvlene Chloride  
Concen: 0.070 ppbv  
RT: 4.39 min Scan# 451  
Delta R.T. -0.01 min  
Lab File: VL033984.D  
Acq: 27 Jun 2019 1:57

Instrument :  
MSVOA\_L  
ClientSampled :

Tot Ion: 84 Resp: 3034  
Ion Ratio Lower Upper  
84 100  
49 142.2 110.0 165.0  
51 48.8 34.6 51.8  
86 44.6 50.6 75.8#

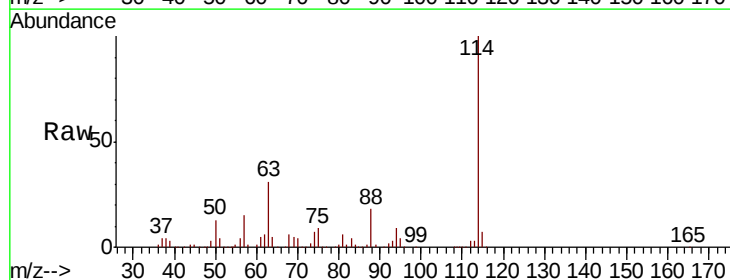


Abundance Ion 84.00 (83.70 to 84.70): VL0  
Ion 49.10 (48.80 to 49.80): VL0  
Ion 51.10 (50.80 to 51.80): VL0  
Ion 86.00 (85.70 to 86.70): VL0

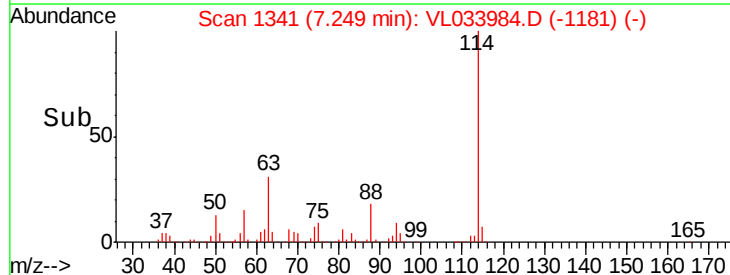
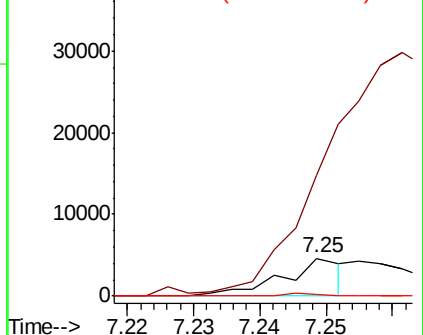


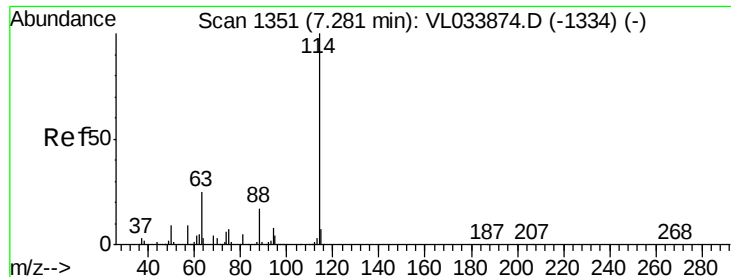
#30  
Cyclohexane  
Concen: 0.054 ppbv  
RT: 7.25 min Scan# 1341  
Delta R.T. 0.02 min  
Lab File: VL033984.D  
Acq: 27 Jun 2019 1:57

Tgt Ion: 84 Resp: 2930  
Ion Ratio Lower Upper  
84 100  
56 0.0 105.8 158.8#  
41 4.4 65.7 98.5#



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

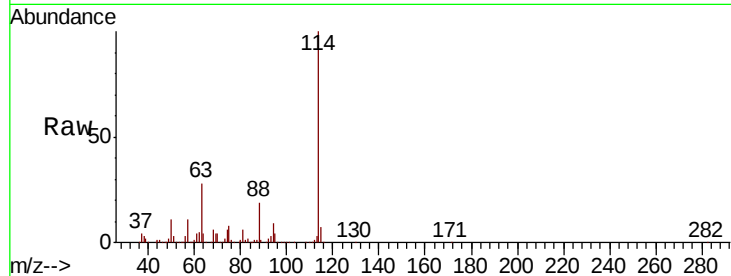




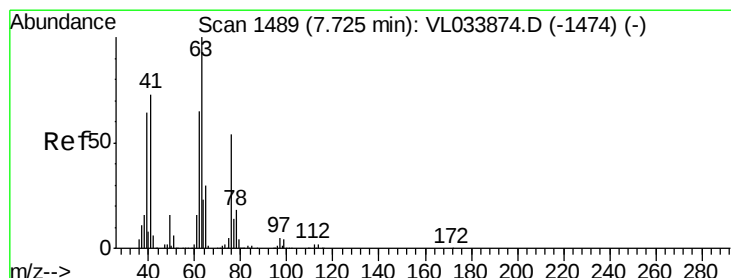
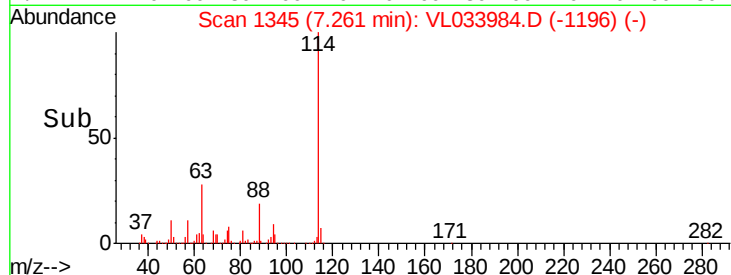
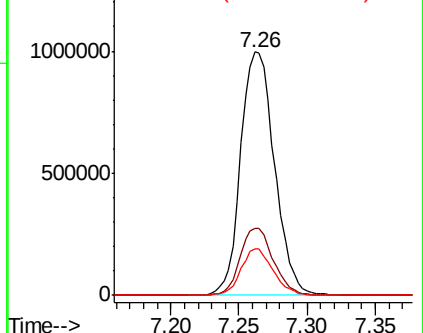
#33  
 1,4-Difluorobenzene  
 Concen: 10.000 ppbv  
 RT: 7.26 min Scan# 1345  
 Delta R.T. -0.02 min  
 Lab File: VL033984.D  
 Acq: 27 Jun 2019 1:57

Instrument :  
 MSVOA\_L  
 ClientSampleId :

Tot Ion:114 Resp: 1719202  
 Ion Ratio Lower Upper  
 114 100  
 63 27.3 21.1 31.7  
 88 18.2 14.2 21.4

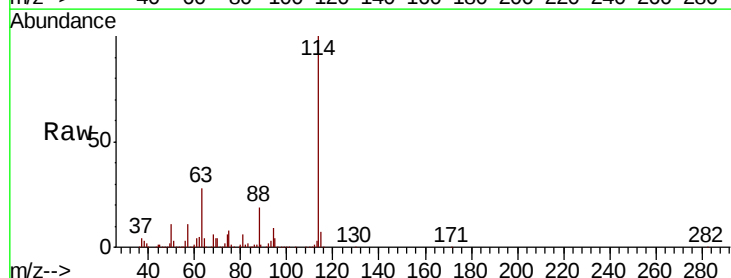


Abundance Ion 114.10 (113.80 to 114.80): V  
 Ion 63.10 (62.80 to 63.80): VL0  
 Ion 88.10 (87.80 to 88.80): VL0

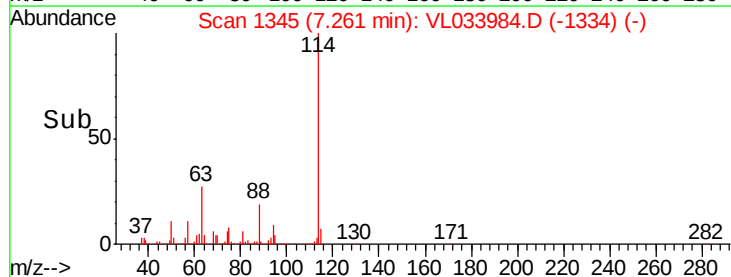
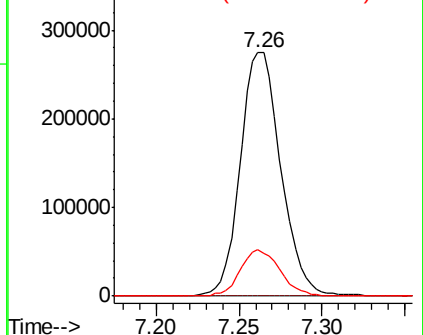


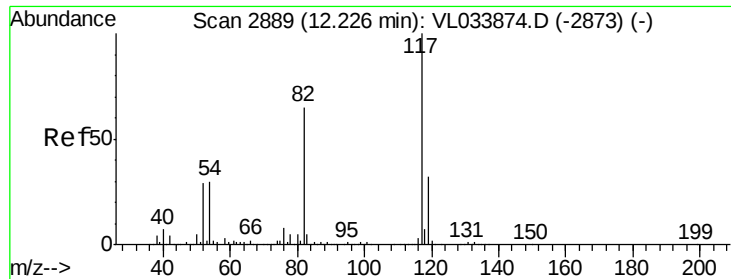
#39  
 1,2-Dichloropropane  
 Concen: 9.194 ppbv  
 RT: 7.26 min Scan# 1345  
 Delta R.T. -0.46 min  
 Lab File: VL033984.D  
 Acq: 27 Jun 2019 1:57

Tgt Ion: 63 Resp: 466006  
 Ion Ratio Lower Upper  
 63 100  
 41 0.0 58.7 88.1#  
 62 19.3 51.9 77.9#



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

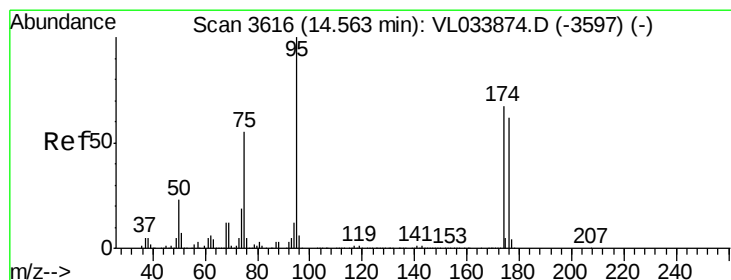
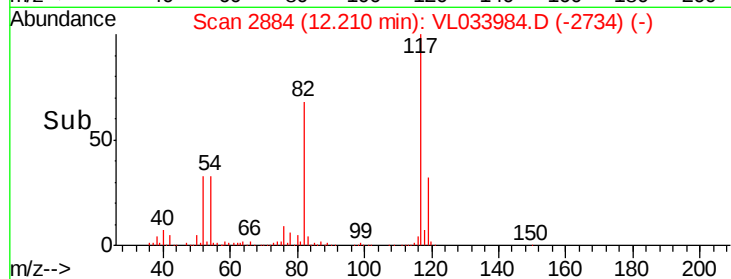
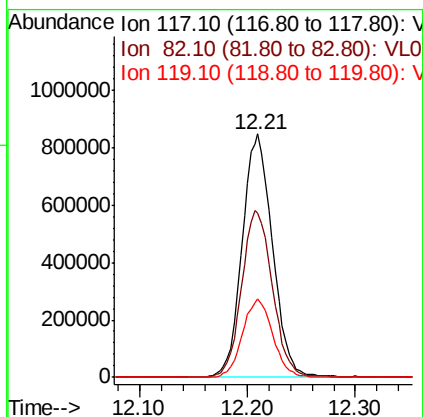
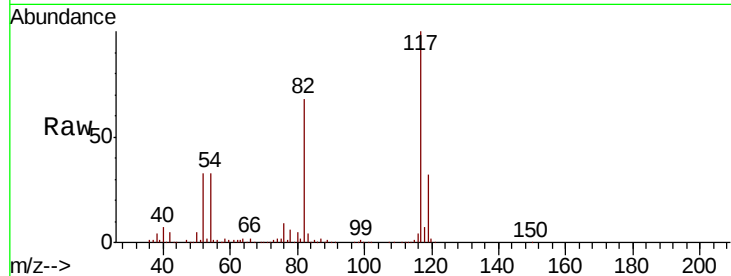




#55  
Chlorobenzene-d5  
Concen: 10.000 ppbv  
RT: 12.21 min Scan# 2884  
Delta R.T. -0.02 min  
Lab File: VL033984.D  
Acq: 27 Jun 2019 1:57

Instrument :  
MSVOA\_L  
ClientSampleId :

Tot Ion:117 Resp: 1657590  
Ion Ratio Lower Upper  
117 100  
82 69.9 50.2 75.2  
119 32.3 24.8 37.2



#68  
1-Bromo-4-Fluorobenzene  
Concen: 10.346 ppbv  
RT: 14.54 min Scan# 3610  
Delta R.T. -0.02 min  
Lab File: VL033984.D  
Acq: 27 Jun 2019 1:57

Tgt Ion: 95 Resp: 1408644  
Ion Ratio Lower Upper  
95 100  
174 64.7 54.0 81.0  
175 4.8 3.8 5.8

