

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD112320\  
 Data File : VD067748.D  
 Acq On : 23 Nov 2020 16:21  
 Operator : VA/SY  
 Sample : L4836-09RE  
 Misc : 5.89G/5.00ml/MSVOA D/SOIL  
 ALS Vial : 16 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 SL-02

Quant Time: Nov 24 00:56:40 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D112320S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Nov 24 00:51:35 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.98  | 168  | 246881   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.87  | 114  | 375825   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.65 | 117  | 404386   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.58 | 152  | 212759   | 50.00 | ug/l  | 0.00     |

## System Monitoring Compounds

|                           |        |       |          |          |      |         |
|---------------------------|--------|-------|----------|----------|------|---------|
| 33) 1,2-Dichloroethane-d4 | 8.33   | 65    | 111977   | 46.65    | ug/l | 0.00    |
| Spiked Amount             | 50.000 | Range | 50 - 163 | Recovery | =    | 93.30%  |
| 35) Dibromofluoromethane  | 7.92   | 113   | 118175   | 49.41    | ug/l | 0.00    |
| Spiked Amount             | 50.000 | Range | 54 - 147 | Recovery | =    | 98.82%  |
| 50) Toluene-d8            | 10.34  | 98    | 439447   | 50.25    | ug/l | 0.00    |
| Spiked Amount             | 50.000 | Range | 49 - 140 | Recovery | =    | 100.50% |
| 62) 4-Bromofluorobenzene  | 12.64  | 95    | 185521   | 62.07    | ug/l | 0.00    |
| Spiked Amount             | 50.000 | Range | 25 - 144 | Recovery | =    | 124.14% |

## Target Compounds

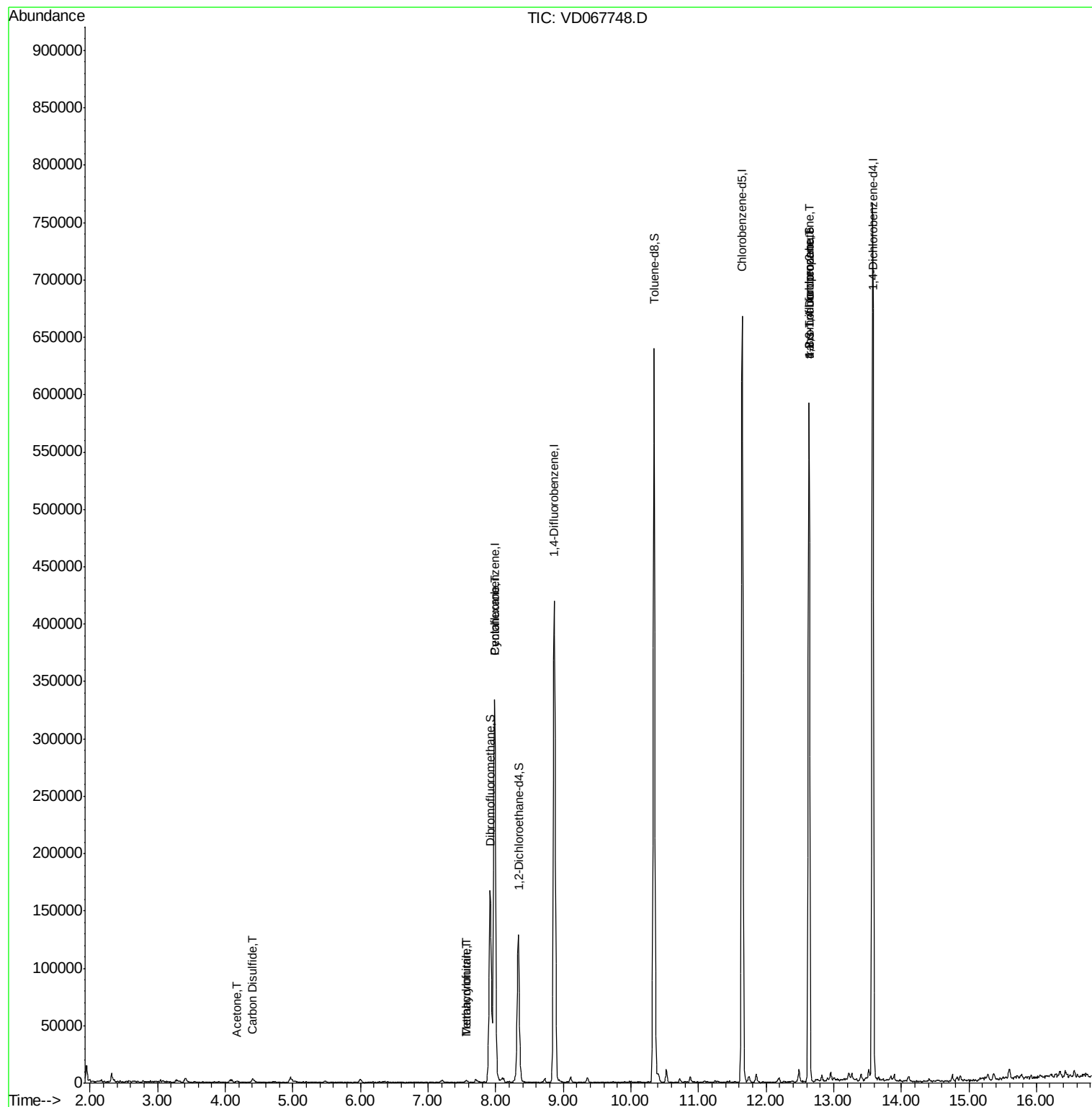
|                                |       |    |       |           | Qvalue |     |
|--------------------------------|-------|----|-------|-----------|--------|-----|
| 16) Acetone                    | 4.17  | 43 | 1080  | 3.483     | ug/l # | 40  |
| 17) Carbon Disulfide           | 4.41  | 76 | 6326  | 1.079     | ug/l # | 86  |
| 20) Methylene Chloride         | 4.97  | 84 | 3399  | Below Cal | #      | 76  |
| 29) Tetrahydrofuran            | 7.56  | 42 | 530   | 2.679     | ug/l # | 49  |
| 31) Cyclohexane                | 7.98  | 56 | 6208  | 2.137     | ug/l # | 57  |
| 41) Methacrylonitrile          | 7.57  | 41 | 861   | 1.944     | ug/l # | 37  |
| 76) 1,2,3-Trichloropropane     | 12.64 | 75 | 95881 | 64.661    | ug/l # | 100 |
| 81) trans-1,4-Dichloro-2-buten | 12.64 | 75 | 95881 | 151.237   | ug/l # | 11  |

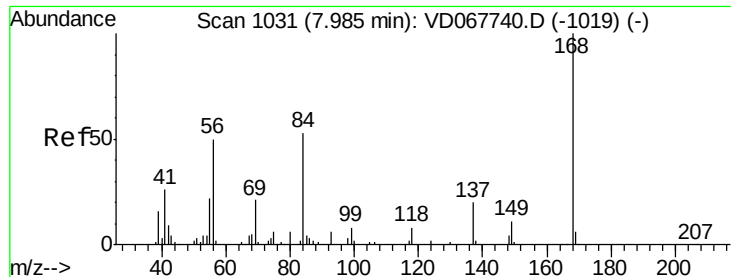
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Instrument :  
MSVOA\_D  
ClientSampled :  
SL-02

Quant Time: Nov 24 00:56:40 2020  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_D\METHOD\82D112320S.M  
Quant Title : SW846 8260  
QLast Update : Tue Nov 24 00:51:35 2020  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.98 min Scan# 1031

Delta R.T. -0.00 min

Lab File: VD067748.D

Acq: 23 Nov 2020 16:21

Instrument :

MSVOA\_D

ClientSampleId :

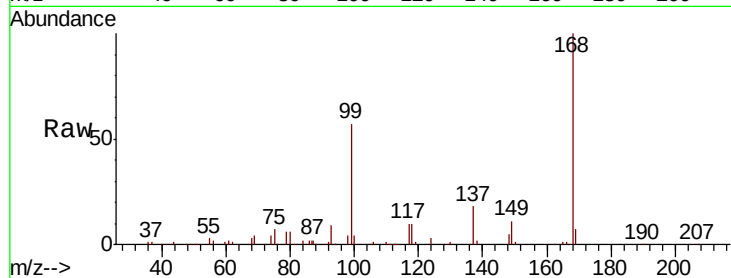
SL-02

Tot Ion:168 Resp: 246881

Ion Ratio Lower Upper

168 100

99 56.3 43.8 65.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VDC

7.98

120000

100000

80000

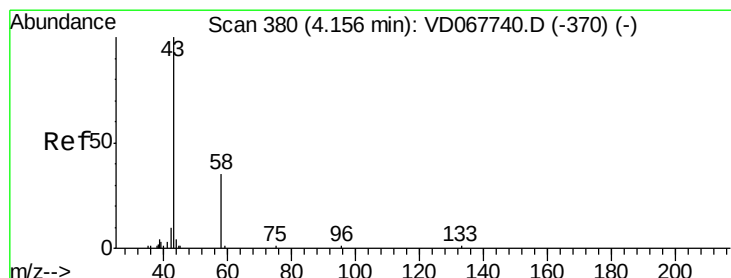
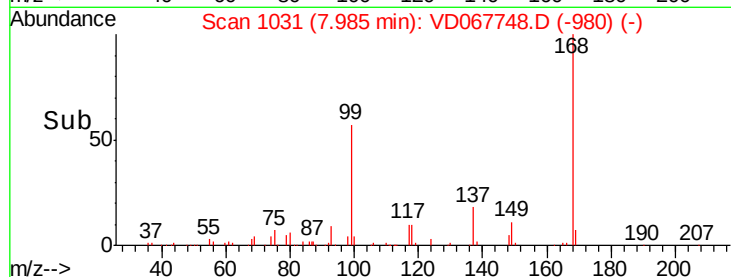
60000

40000

20000

0

Time-->



#16

Acetone

Concen: 3.483 ug/l

RT: 4.17 min Scan# 382

Delta R.T. 0.01 min

Lab File: VD067748.D

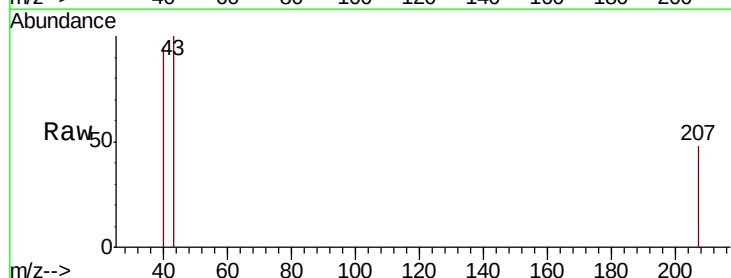
Acq: 23 Nov 2020 16:21

Tgt Ion: 43 Resp: 1080

Ion Ratio Lower Upper

43 100

58 0.0 27.6 41.4#



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 58.00 (57.70 to 58.70): VDC

4.17

600

500

400

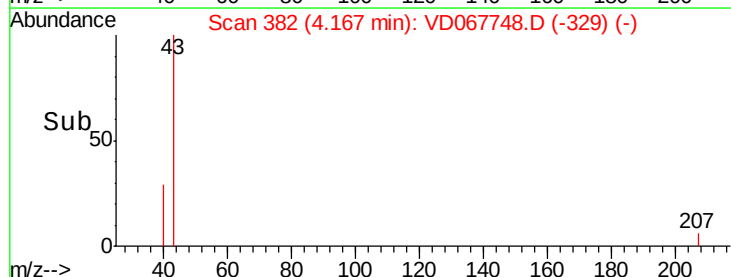
300

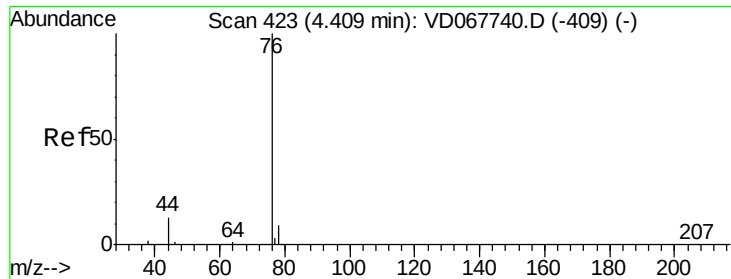
200

100

0

Time-->





#17

Carbon Disulfide

Concen: 1.079 ug/l

RT: 4.41 min Scan# 423

Delta R.T. -0.00 min

Lab File: VD067748.D

Acq: 23 Nov 2020 16:21

Instrument :

MSVOA\_D

ClientSampled :

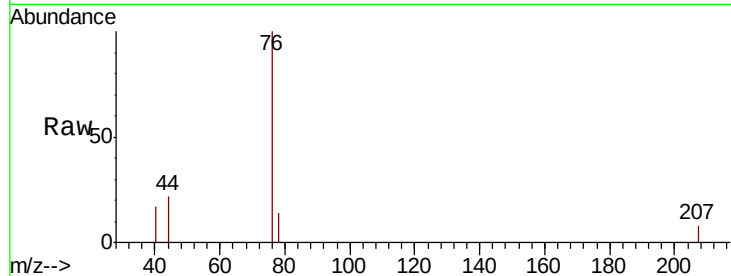
SL-02

Tot Ion: 76 Resp: 6326

Ion Ratio Lower Upper

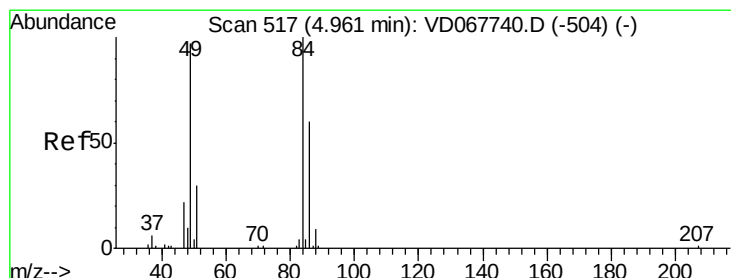
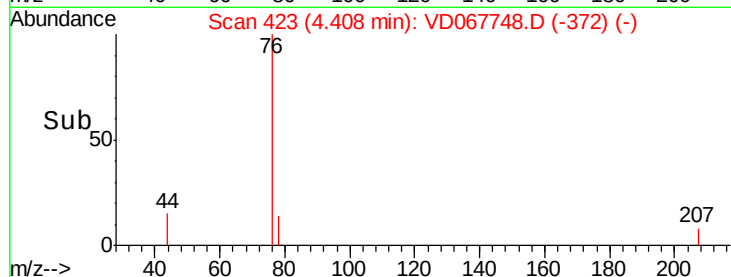
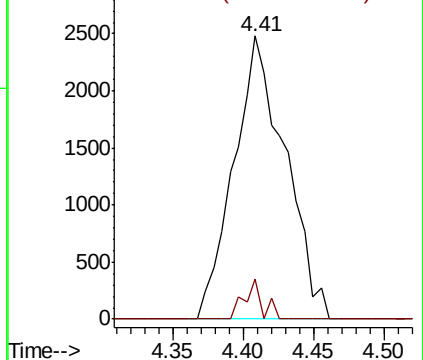
76 100

78 14.4 7.5 11.3#



Abundance Ion 75.90 (75.60 to 76.60): VDC

Ion 77.90 (77.60 to 78.60): VDC



#20

Methylene Chloride

Concen: Below Cal

RT: 4.97 min Scan# 518

Delta R.T. 0.01 min

Lab File: VD067748.D

Acq: 23 Nov 2020 16:21

Tgt Ion: 84 Resp: 3399

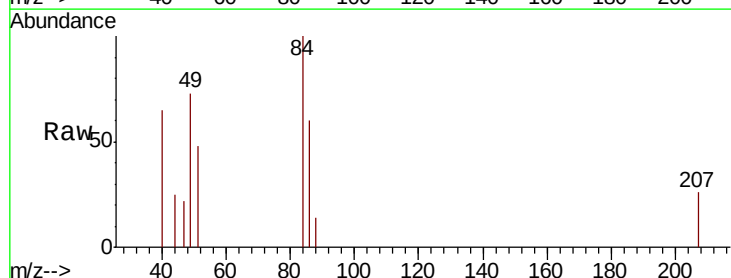
Ion Ratio Lower Upper

84 100

49 60.4 77.4 116.2#

51 47.7 24.1 36.1#

86 60.4 48.2 72.2

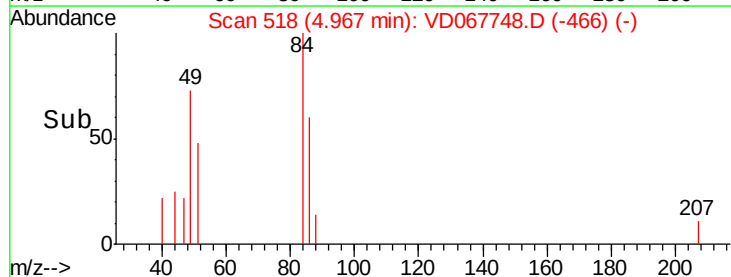
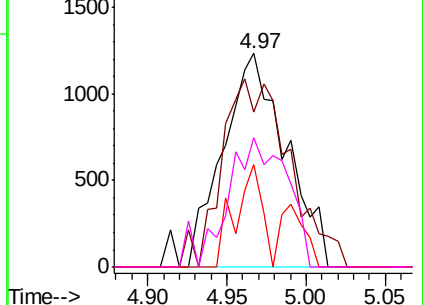


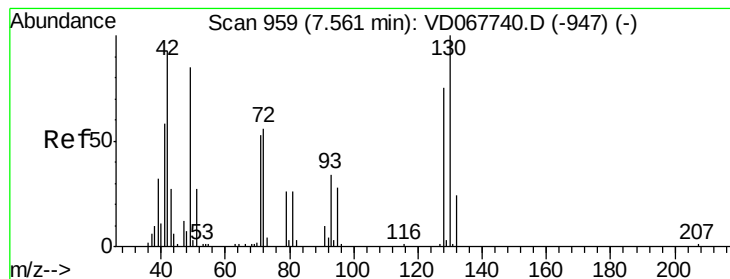
Abundance Ion 83.90 (83.60 to 84.60): VDC

Ion 48.90 (48.60 to 49.60): VDC

Ion 50.90 (50.60 to 51.60): VDC

Ion 85.90 (85.60 to 86.60): VDC





#29

Tetrahydrofuran

Concen: 2.679 ug/l

RT: 7.56 min Scan# 958

Delta R.T. -0.01 min

Lab File: VD067748.D

Acq: 23 Nov 2020 16:21

Instrument :

MSVOA\_D

ClientSampled :

SL-02

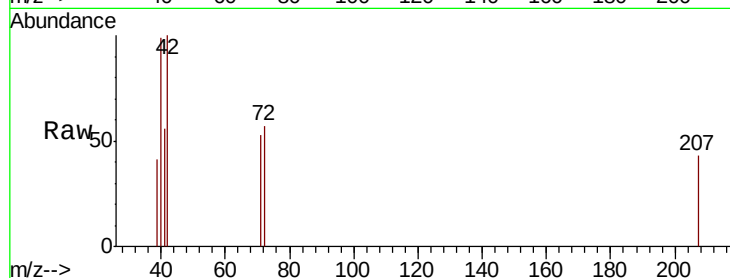
Tot Ion: 42 Resp: 530

Ion Ratio Lower Upper

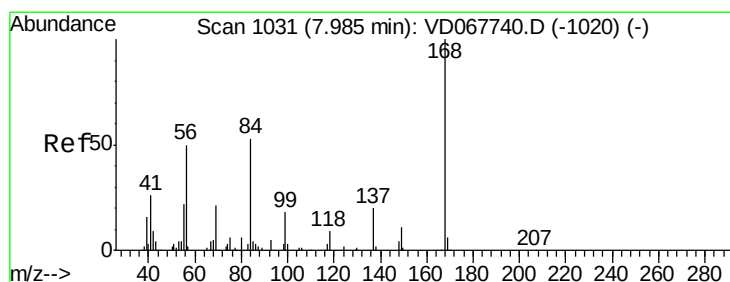
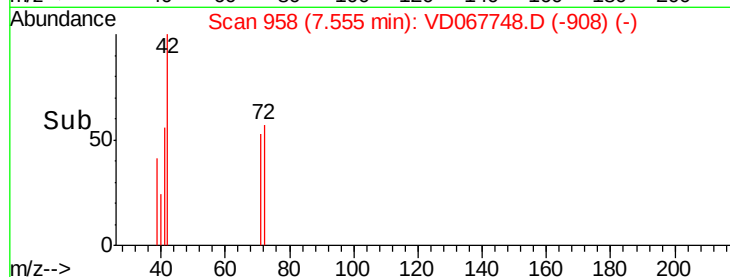
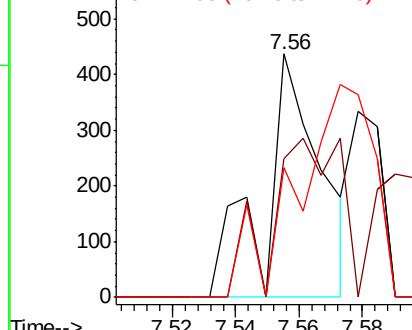
42 100

72 80.9 49.3 73.9#

71 0.0 45.9 68.9#



Abundance Ion 42.00 (41.70 to 42.70): VDC  
Ion 72.00 (71.70 to 72.70): VDC  
Ion 71.00 (70.70 to 71.70): VDC



#31

Cyclohexane

Concen: 2.137 ug/l

RT: 7.98 min Scan# 1030

Delta R.T. -0.01 min

Lab File: VD067748.D

Acq: 23 Nov 2020 16:21

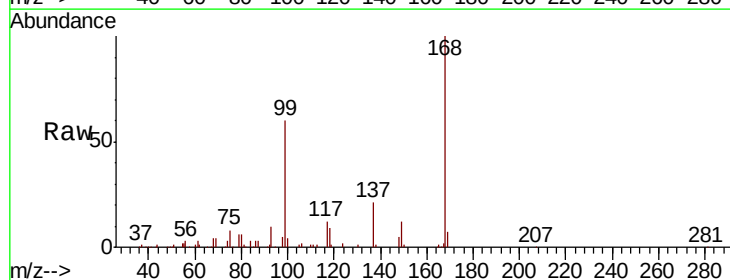
Tgt Ion: 56 Resp: 6208

Ion Ratio Lower Upper

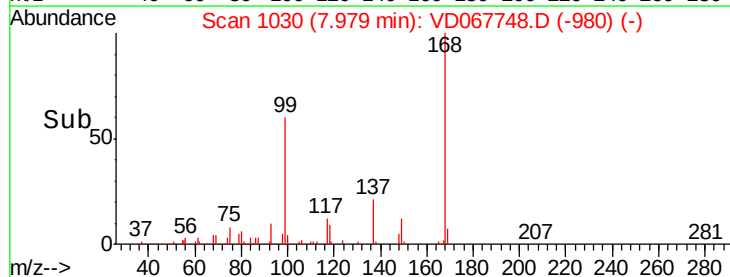
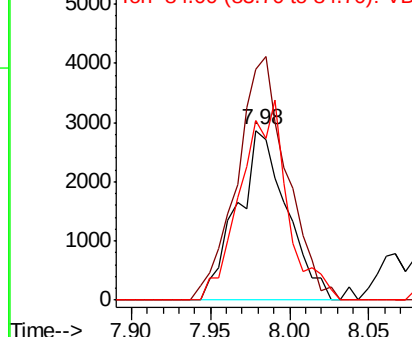
56 100

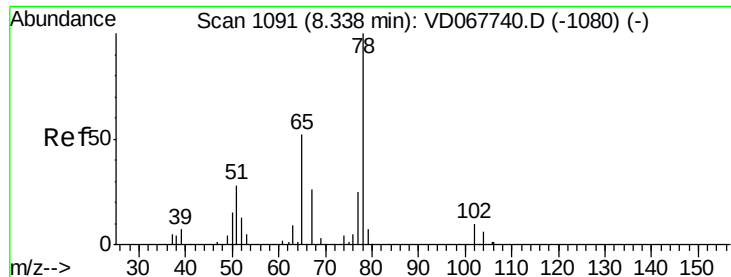
69 136.1 33.2 49.8#

84 105.7 84.8 127.2



Abundance Ion 56.00 (55.70 to 56.70): VDC  
Ion 69.00 (68.70 to 69.70): VDC  
Ion 84.00 (83.70 to 84.70): VDC

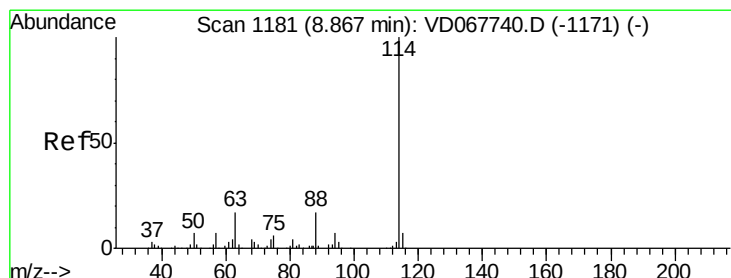
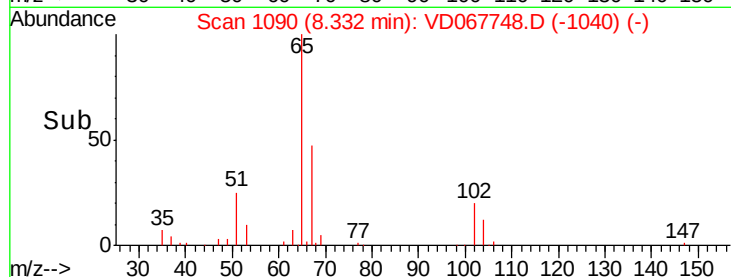
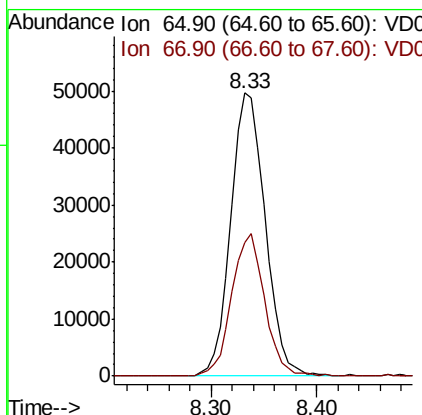
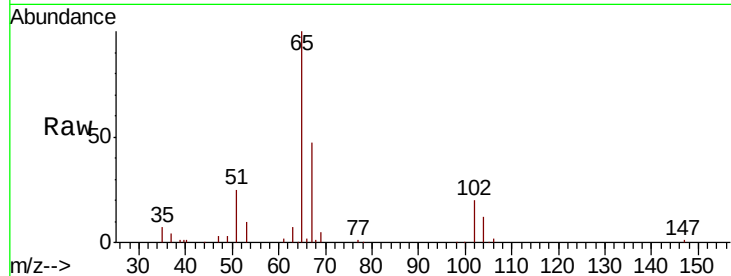




#33  
 1,2-Dichloroethane-d4  
 Concen: 46.648 ug/l  
 RT: 8.33 min Scan# 1090  
 Delta R.T. -0.01 min  
 Lab File: VD067748.D  
 Acq: 23 Nov 2020 16:21

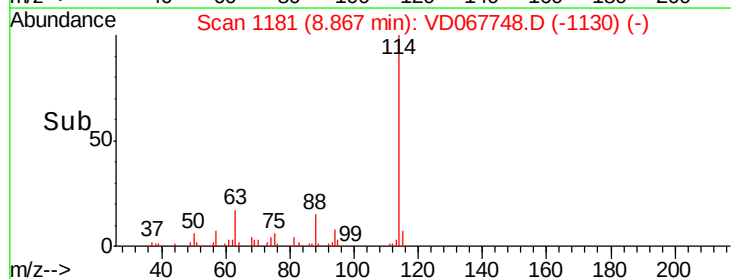
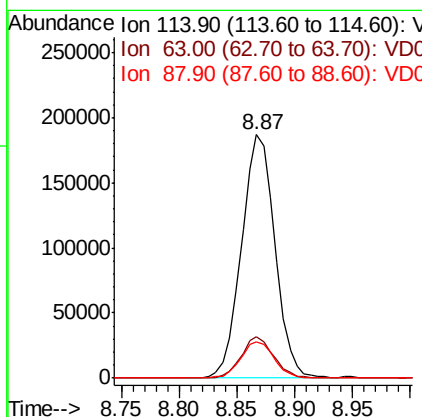
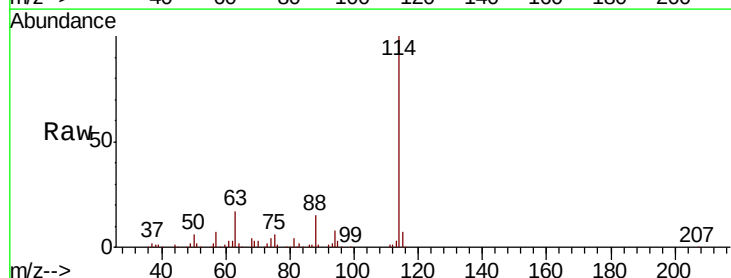
Instrument :  
 MSVOA\_D  
 ClientSampled :  
 SL-02

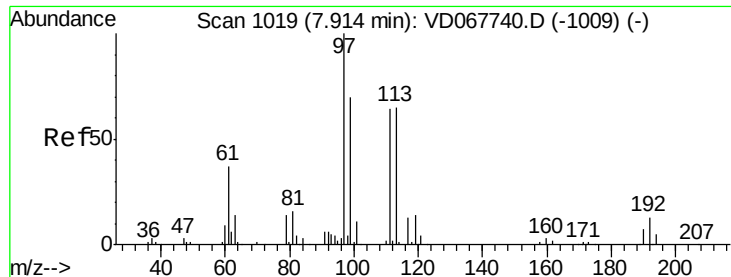
Tot Ion: 65 Resp: 111977  
 Ion Ratio Lower Upper  
 65 100  
 67 48.2 0.0 101.0



#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.87 min Scan# 1181  
 Delta R.T. -0.00 min  
 Lab File: VD067748.D  
 Acq: 23 Nov 2020 16:21

Tgt Ion: 114 Resp: 375825  
 Ion Ratio Lower Upper  
 114 100  
 63 17.1 0.0 34.8  
 88 14.9 0.0 34.4

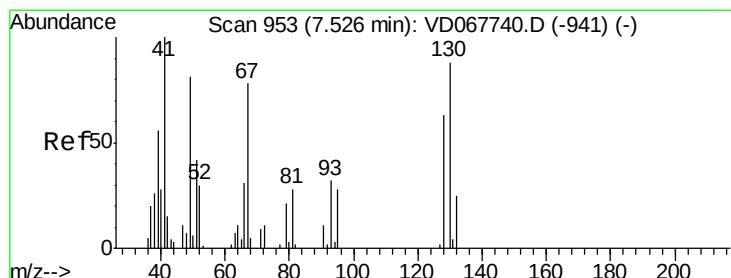
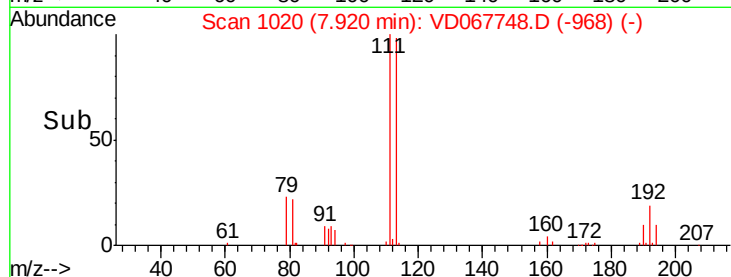
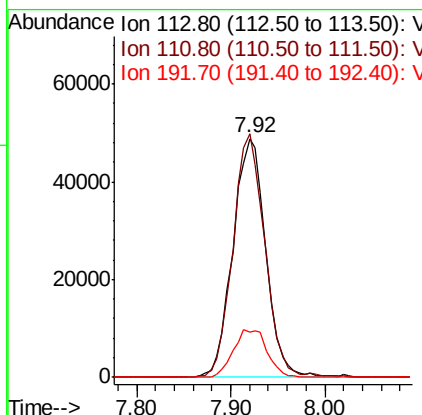
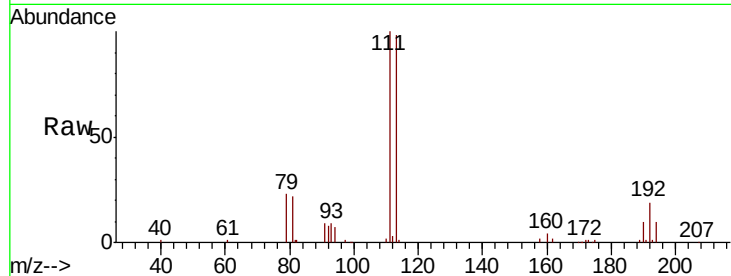




#35  
 Dibromofluoromethane  
 Concen: 49.410 ug/l  
 RT: 7.92 min Scan# 1020  
 Delta R.T. 0.01 min  
 Lab File: VD067748.D  
 Acq: 23 Nov 2020 16:21

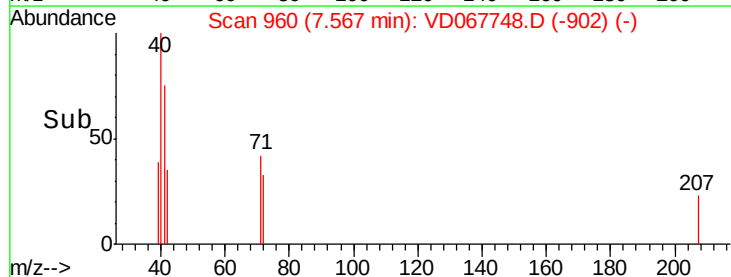
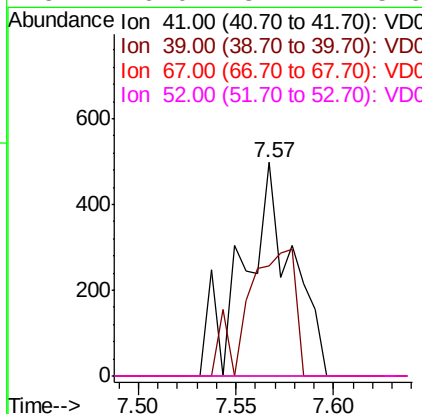
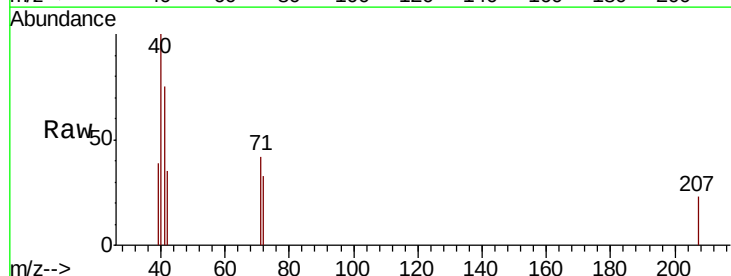
Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 SL-02

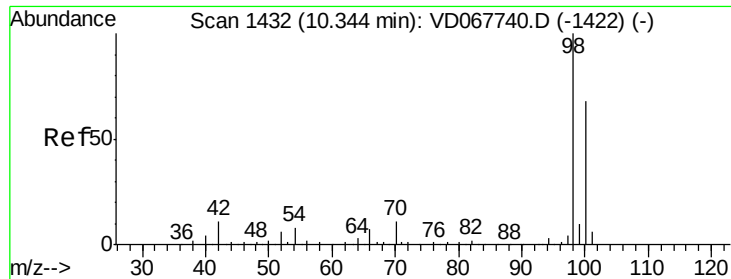
Tot Ion:113 Resp: 118175  
 Ion Ratio Lower Upper  
 113 100  
 111 98.4 81.4 122.0  
 192 20.4 17.0 25.4



#41  
 Methacrylonitrile  
 Concen: 1.944 ug/l  
 RT: 7.57 min Scan# 960  
 Delta R.T. 0.04 min  
 Lab File: VD067748.D  
 Acq: 23 Nov 2020 16:21

Tgt Ion: 41 Resp: 861  
 Ion Ratio Lower Upper  
 41 100  
 39 58.4 50.2 75.4  
 67 0.0 79.0 118.6#  
 52 0.0 32.4 48.6#

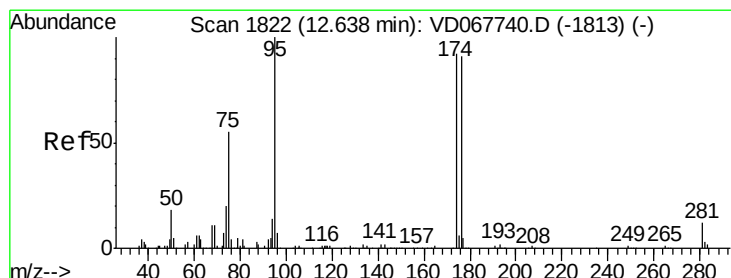
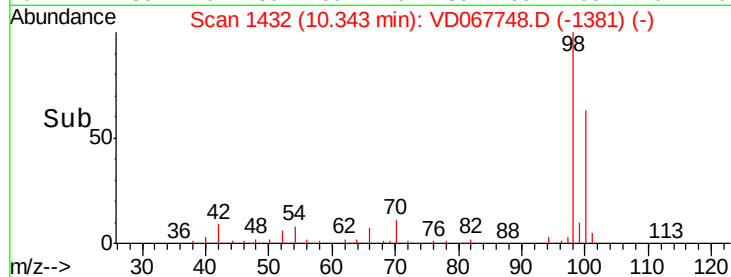
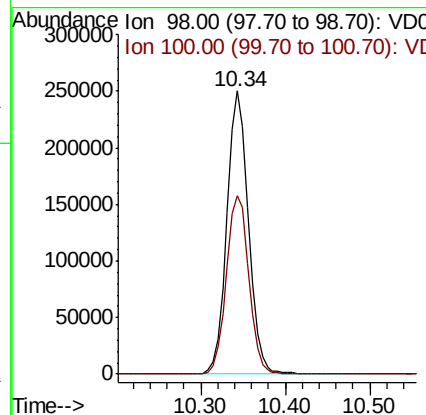
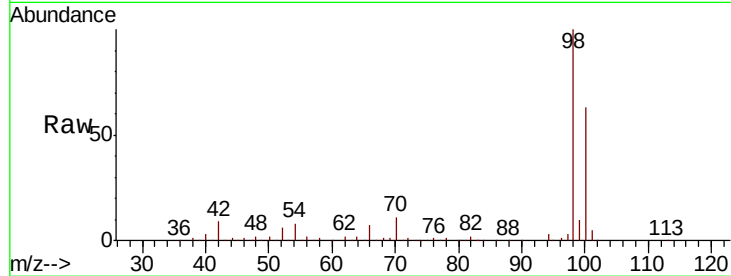




#50  
Toluene-d8  
Concen: 50.255 ug/l  
RT: 10.34 min Scan# 1432  
Delta R.T. -0.00 min  
Lab File: VD067748.D  
Acq: 23 Nov 2020 16:21

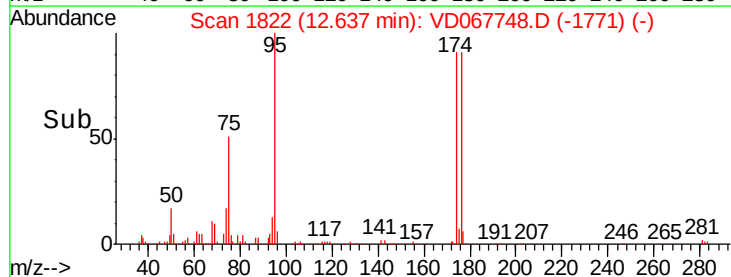
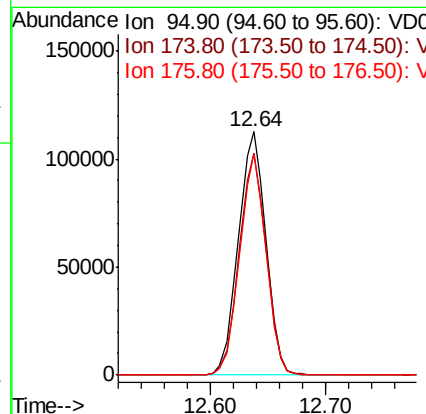
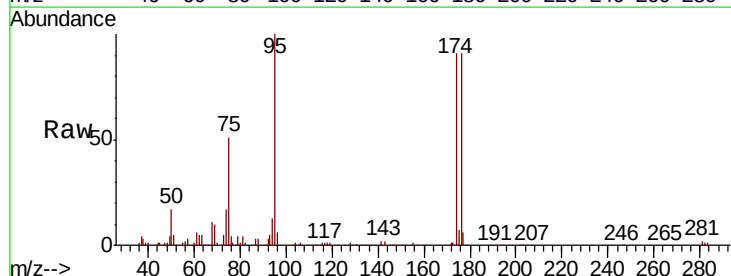
Instrument :  
MSVOA\_D  
ClientSampleID :  
SL-02

Tot Ion: 98 Resp: 439447  
Ion Ratio Lower Upper  
98 100  
100 66.3 53.1 79.7

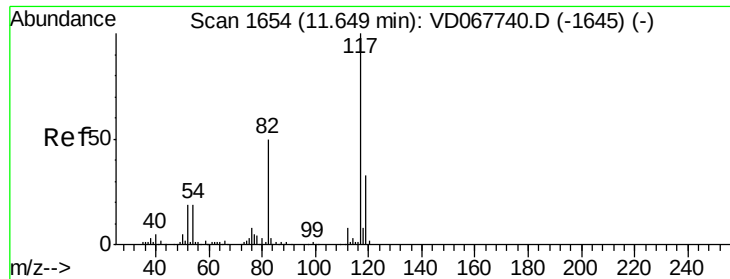


#62  
4-Bromofluorobenzene  
Concen: 62.071 ug/l  
RT: 12.64 min Scan# 1822  
Delta R.T. -0.00 min  
Lab File: VD067748.D  
Acq: 23 Nov 2020 16:21

Tgt Ion: 95 Resp: 185521  
Ion Ratio Lower Upper  
95 100  
174 89.3 0.0 182.4  
176 87.0 0.0 178.2



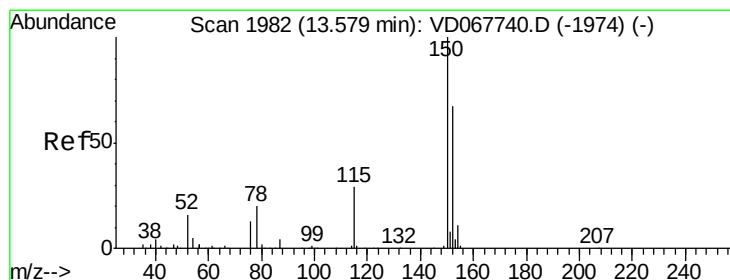
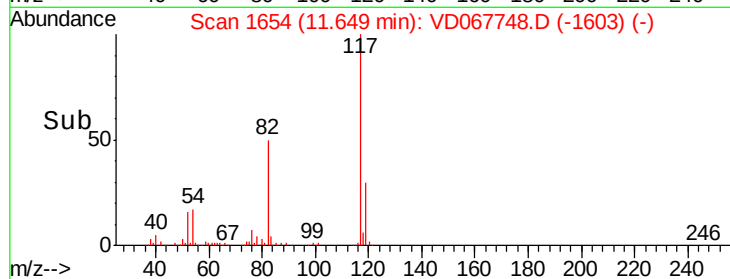
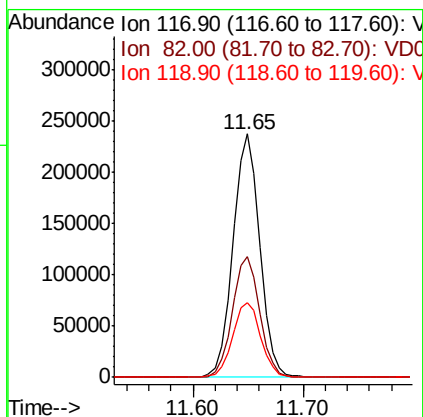
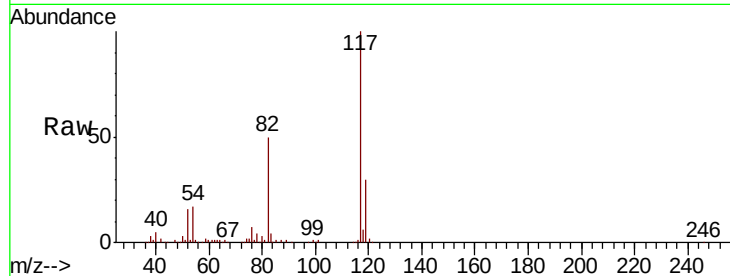




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.65 min Scan# 1654  
Delta R.T. -0.00 min  
Lab File: VD067748.D  
Acq: 23 Nov 2020 16:21

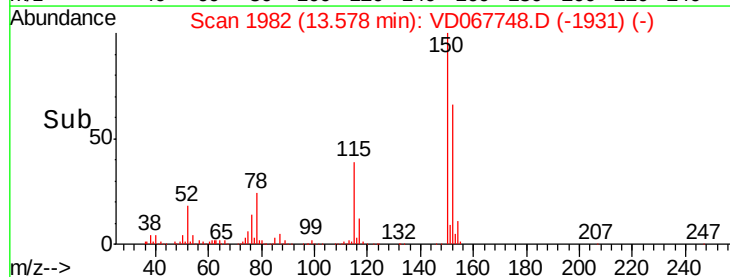
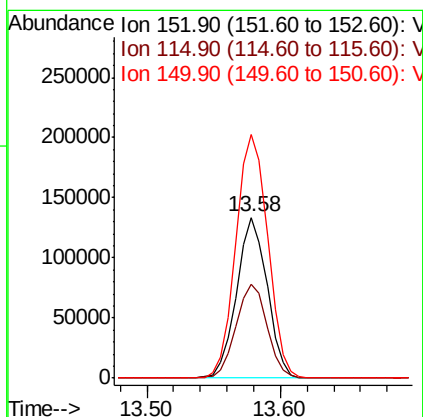
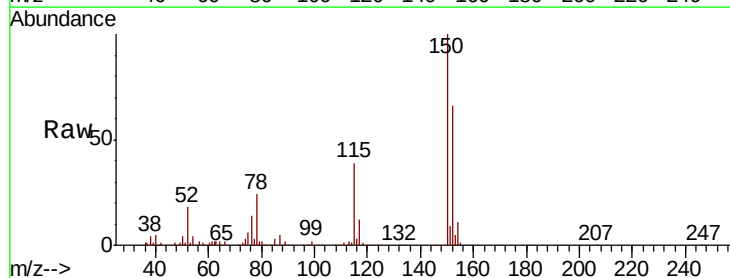
Instrument :  
MSVOA\_D  
ClientSampleId :  
SL-02

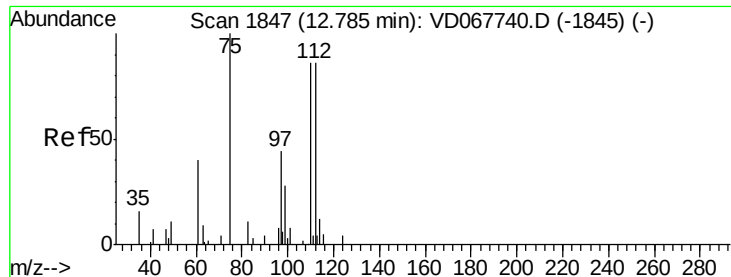
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 117     | 100   |       |       |
| 82      | 49.8  | 40.2  | 60.4  |
| 119     | 30.5  | 26.5  | 39.7  |



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.58 min Scan# 1982  
Delta R.T. -0.00 min  
Lab File: VD067748.D  
Acq: 23 Nov 2020 16:21

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 115     | 59.3  | 29.4  | 88.3  |
| 150     | 157.7 | 0.0   | 340.6 |

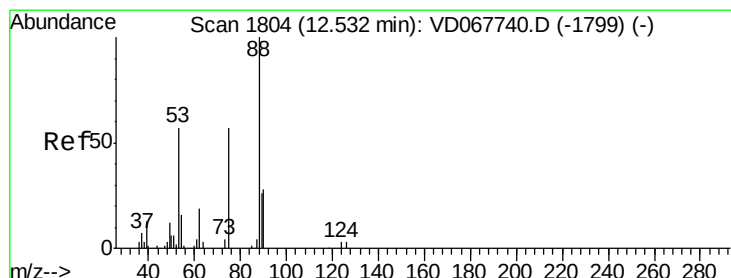
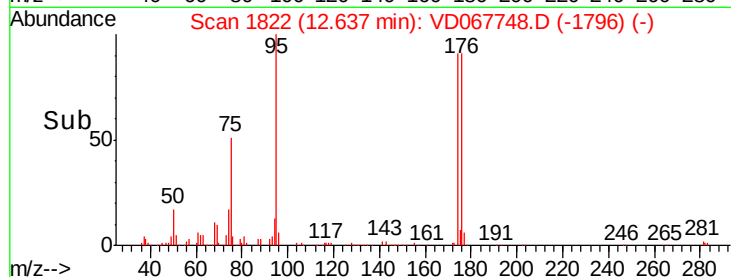
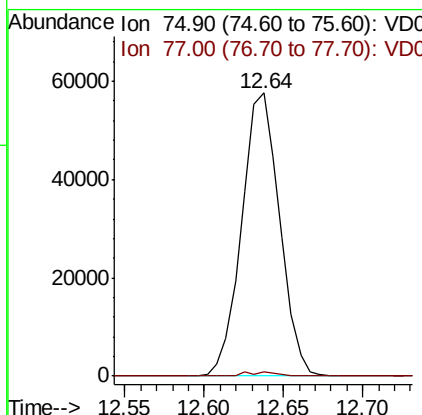
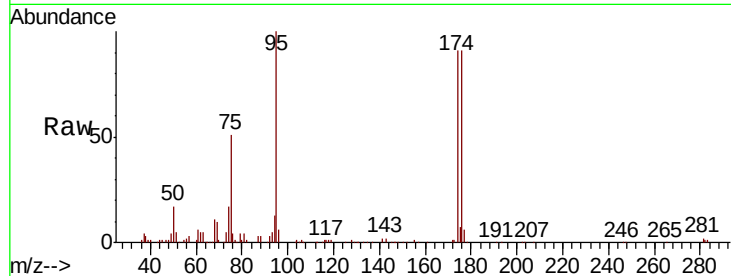




#76  
 1,2,3-Trichloropropane  
 Concen: 64.661 ug/l  
 RT: 12.64 min Scan# 1822  
 Delta R.T. -0.15 min  
 Lab File: VD067748.D  
 Acq: 23 Nov 2020 16:21

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 SL-02

Tot Ion: 75 Resp: 95881  
 Ion Ratio Lower Upper  
 75 100  
 77 1.2 0.0 0.0#



#81  
 trans-1,4-Dichloro-2-butene  
 Concen: 151.237 ug/l  
 RT: 12.64 min Scan# 1822  
 Delta R.T. 0.11 min  
 Lab File: VD067748.D  
 Acq: 23 Nov 2020 16:21

Tgt Ion: 75 Resp: 95881  
 Ion Ratio Lower Upper  
 75 100  
 53 0.0 76.0 114.0#  
 89 0.0 40.2 60.4#

