

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_D\DATA\VD092320\  
 Data File : VD066830.D  
 Acq On : 23 Sep 2020 13:11  
 Operator : VA/SY  
 Sample : L4105-01  
 Misc : 3.81G/5.00ml/MSVOA\_D/SOIL  
 ALS Vial : 8 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 MTB-SP

Quant Time: Sep 23 15:02:15 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D092220S.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Sep 23 01:34:05 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.98  | 168  | 401491   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.86  | 114  | 738604   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.64 | 117  | 724827   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.58 | 152  | 309922   | 50.00 | ug/l  | 0.00     |

|                             |        |     |          |       |         |      |
|-----------------------------|--------|-----|----------|-------|---------|------|
| System Monitoring Compounds |        |     |          |       |         |      |
| 33) 1,2-Dichloroethane-d4   | 8.33   | 65  | 243384   | 61.94 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 123.88% |      |
| 35) Dibromofluoromethane    | 7.91   | 113 | 241245   | 51.34 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 102.68% |      |
| 50) Toluene-d8              | 10.34  | 98  | 894668   | 55.88 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 111.76% |      |
| 62) 4-Bromofluorobenzene    | 12.63  | 95  | 300945   | 54.91 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 109.82% |      |

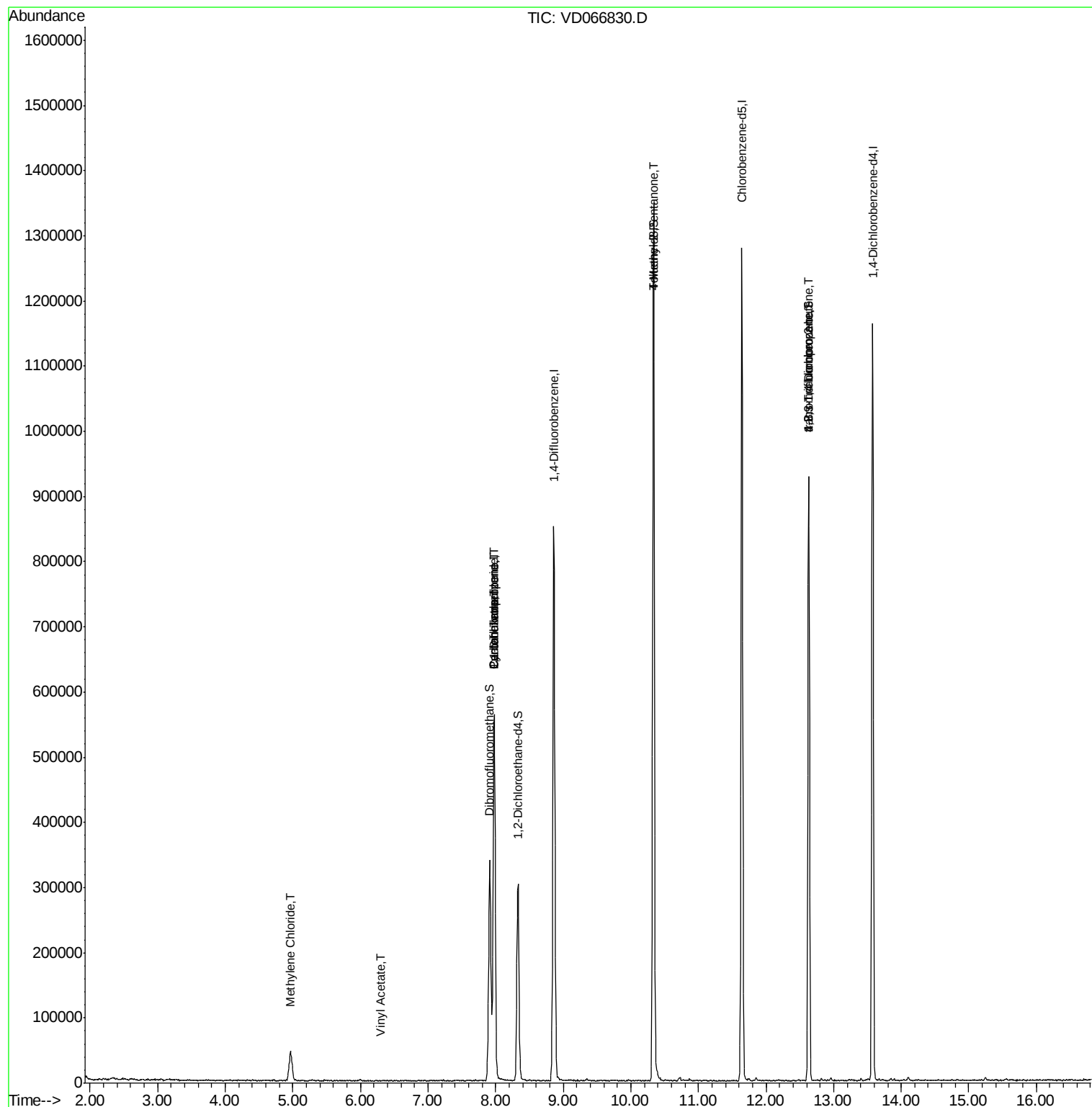
| Target Compounds               |       |     |        |           | Qvalue     |
|--------------------------------|-------|-----|--------|-----------|------------|
| 2) Dichlorodifluoromethane     | 1.99  | 85  | 843    | Below Cal | # 46       |
| 18) Methyl Acetate             | 4.71  | 43  | 57     | Below Cal | # 50       |
| 20) Methylene Chloride         | 4.97  | 84  | 35029  | 2.223     | ug/l # 91  |
| 23) Vinyl Acetate              | 6.30  | 43  | 74     | 2.683     | ug/l # 71  |
| 31) Cyclohexane                | 7.98  | 56  | 9714   | 1.360     | ug/l # 25  |
| 36) 1,1-Dichloropropene        | 7.97  | 75  | 33574  | 4.582     | ug/l # 50  |
| 38) Carbon Tetrachloride       | 7.99  | 117 | 42645  | 5.323     | ug/l # 16  |
| 51) 4-Methyl-2-Pentanone       | 10.34 | 43  | 4218   | 1.630     | ug/l # 1   |
| 76) 1,2,3-Trichloropropane     | 12.63 | 75  | 156390 | 60.890    | ug/l # 100 |
| 81) trans-1,4-Dichloro-2-buten | 12.63 | 75  | 156390 | 152.342   | ug/l # 10  |

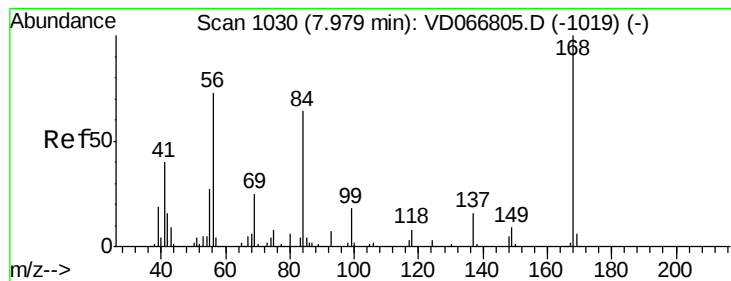
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA\_D\DATA\VD092320\  
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Instrument :  
MSVOA\_D  
ClientSampleId :  
MTB-SP

Quant Time: Sep 23 15:02:15 2020  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_D\METHOD\82D092220S.M  
Quant Title : SW846 8260  
QLast Update : Wed Sep 23 01:34:05 2020  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.98 min Scan# 1030

Delta R.T. 0.00 min

Lab File: VD066830.D

Acq: 23 Sep 2020 13:11

Instrument :

MSVOA\_D

ClientSampleId :

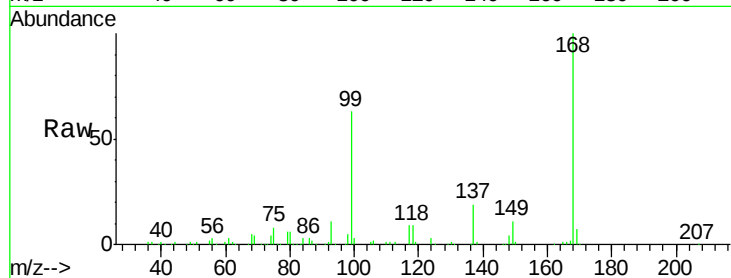
MTB-SP

Tgt Ion:168 Resp: 401491

Ion Ratio Lower Upper

168 100

99 62.6 46.6 69.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VDC

7.98

200000

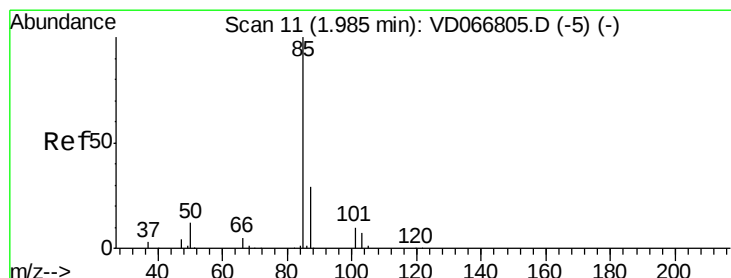
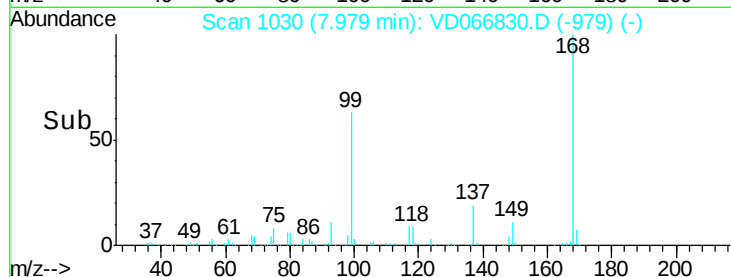
150000

100000

50000

0

Time-->



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 1.99 min Scan# 11

Delta R.T. 0.00 min

Lab File: VD066830.D

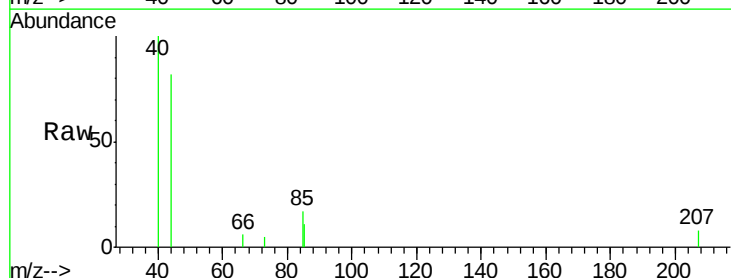
Acq: 23 Sep 2020 13:11

Tgt Ion: 85 Resp: 843

Ion Ratio Lower Upper

85 100

87 0.0 14.5 43.5#



Abundance Ion 84.90 (84.60 to 85.60): VDC

Ion 86.90 (86.60 to 87.60): VDC

1.99

1000

800

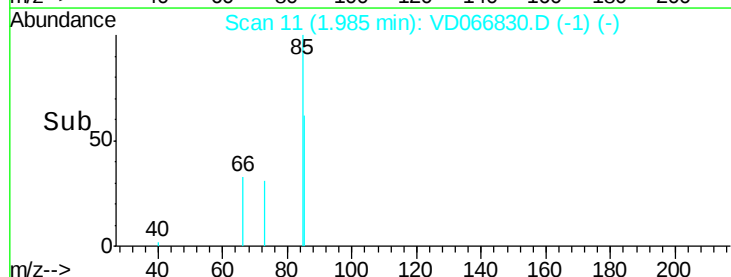
600

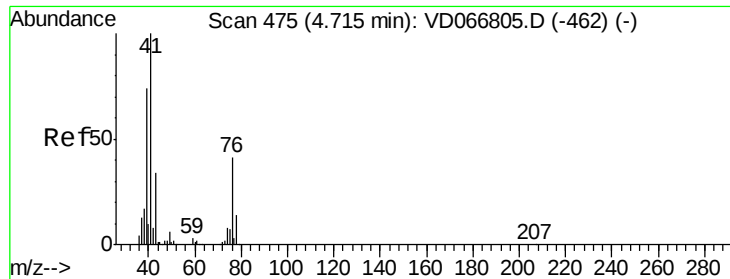
400

200

0

Time-->

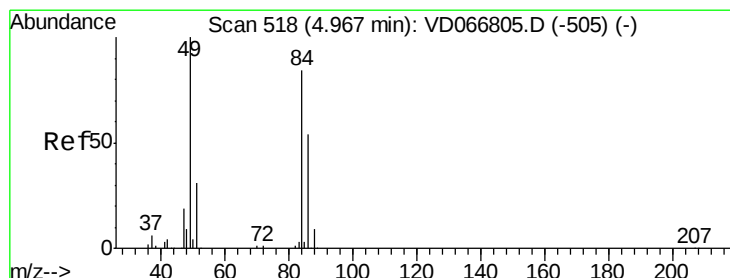
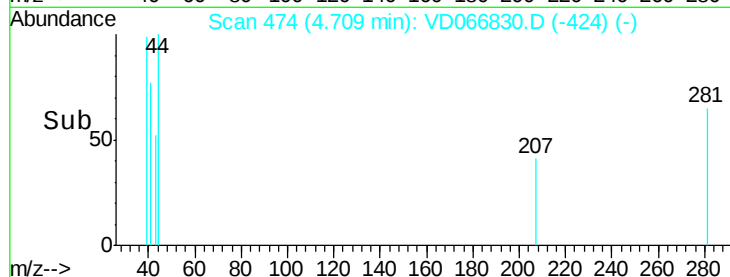
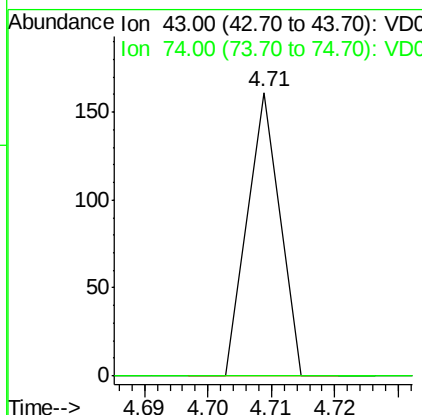
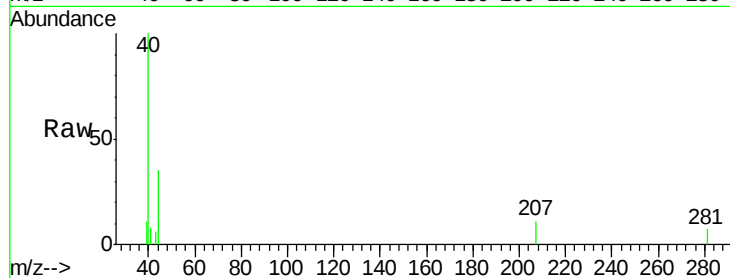




#18  
Methyl Acetate  
Concen: Below Cal  
RT: 4.71 min Scan# 474  
Delta R.T. -0.01 min  
Lab File: VD066830.D  
Acq: 23 Sep 2020 13:11

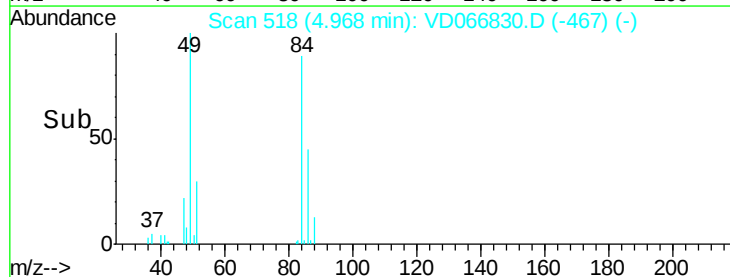
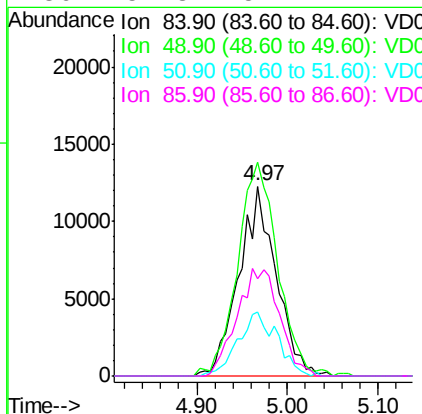
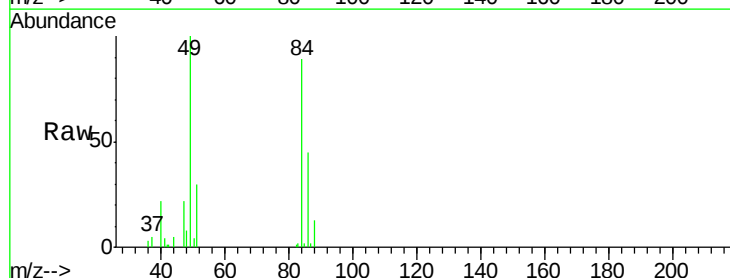
Instrument :  
MSVOA\_D  
ClientSampleId :  
MTB-SP

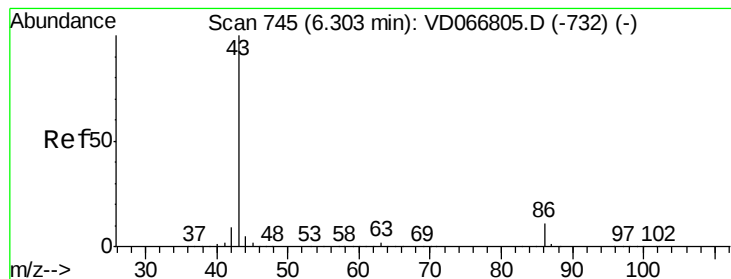
Tgt Ion: 43 Resp: 57  
Ion Ratio Lower Upper  
43 100  
74 0.0 20.3 30.5#



#20  
Methylene Chloride  
Concen: 2.223 ug/l  
RT: 4.97 min Scan# 518  
Delta R.T. 0.00 min  
Lab File: VD066830.D  
Acq: 23 Sep 2020 13:11

Tgt Ion: 84 Resp: 35029  
Ion Ratio Lower Upper  
84 100  
49 112.7 95.4 143.2  
51 33.7 29.7 44.5  
86 51.3 51.4 77.2#





#23

Vinyl Acetate

Concen: 2.683 ug/l

RT: 6.30 min Scan# 744

Delta R.T. -0.01 min

Lab File: VD066830.D

Acq: 23 Sep 2020 13:11

Instrument :

MSVOA\_D

ClientSampleId :

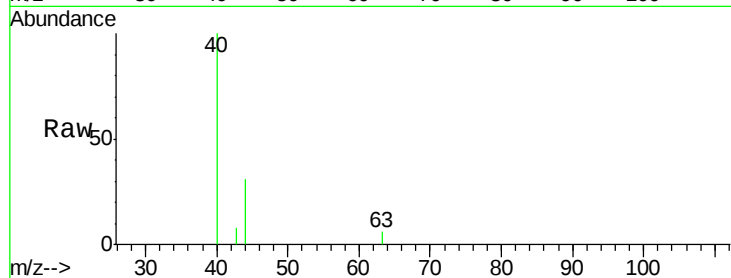
MTB-SP

Tgt Ion: 43 Resp: 74

Ion Ratio Lower Upper

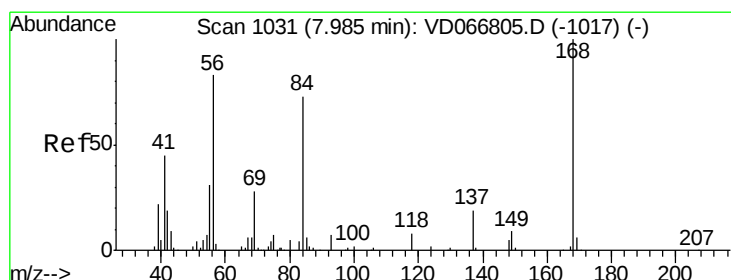
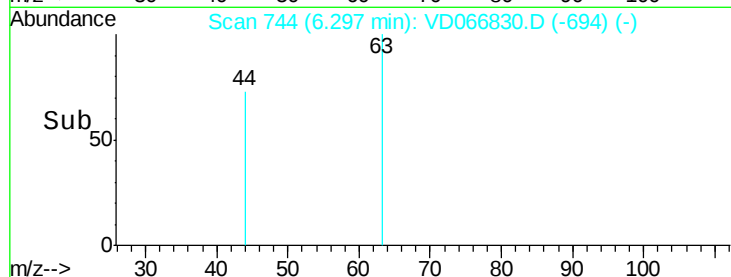
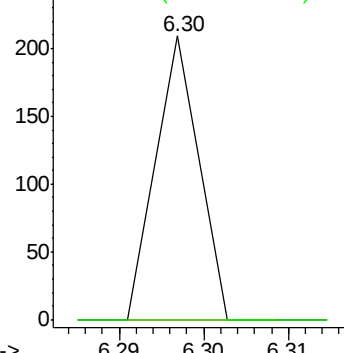
43 100

86 0.0 8.9 13.3#



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 86.00 (85.70 to 86.70): VDC



#31

Cyclohexane

Concen: 1.360 ug/l

RT: 7.98 min Scan# 1030

Delta R.T. -0.01 min

Lab File: VD066830.D

Acq: 23 Sep 2020 13:11

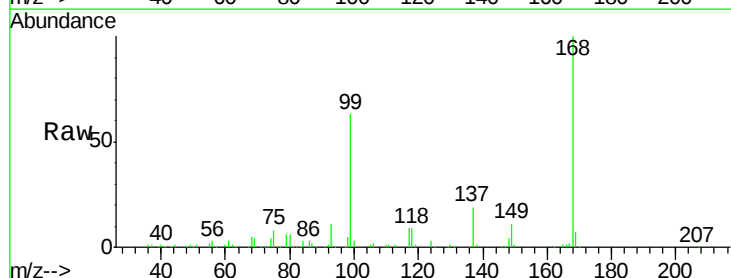
Tgt Ion: 56 Resp: 9714

Ion Ratio Lower Upper

56 100

69 136.2 27.0 40.4#

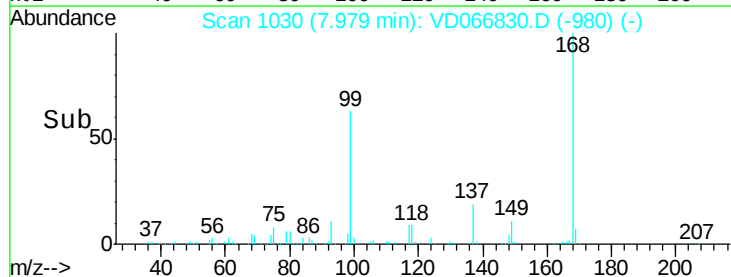
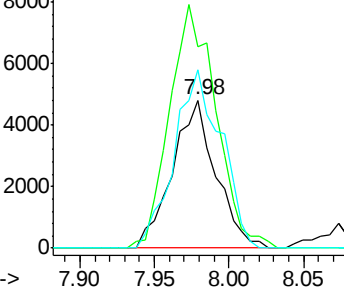
84 120.2 70.2 105.4#

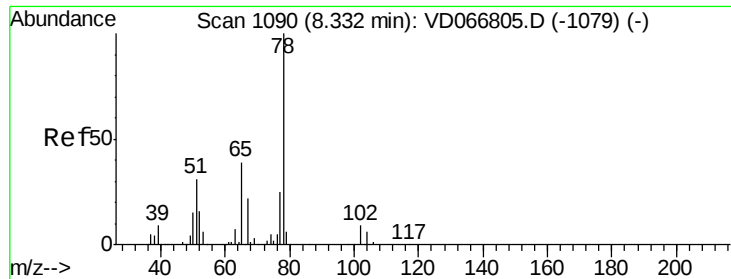


Abundance Ion 56.00 (55.70 to 56.70): VDC

Ion 69.00 (68.70 to 69.70): VDC

Ion 84.00 (83.70 to 84.70): VDC





#33

1,2-Dichloroethane-d4

Concen: 61.936 ug/l

RT: 8.33 min Scan# 1090

Delta R.T. 0.00 min

Lab File: VD066830.D

Acq: 23 Sep 2020 13:11

Instrument :

MSVOA\_D

ClientSampleId :

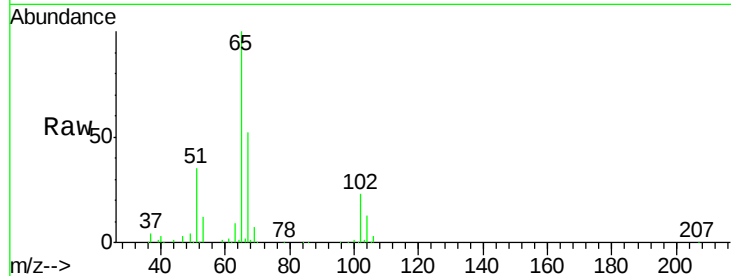
MTB-SP

Tgt Ion: 65 Resp: 243384

Ion Ratio Lower Upper

65 100

67 52.0 0.0 107.2



Abundance Ion 64.90 (64.60 to 65.60): VDC

Ion 66.90 (66.60 to 67.60): VDC

8.33

120000

100000

80000

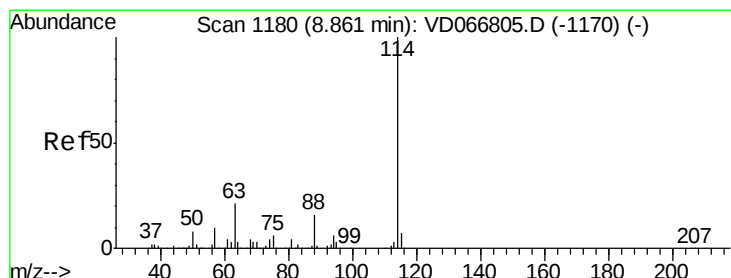
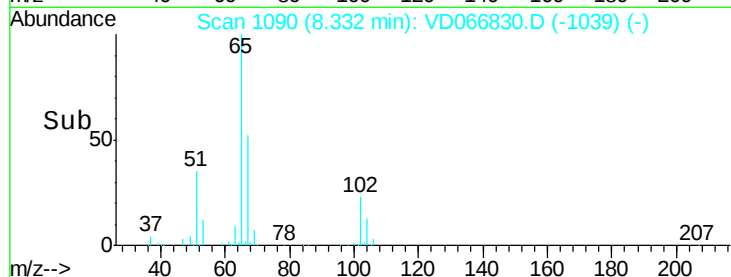
60000

40000

20000

0

Time--> 8.20 8.30 8.40



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.86 min Scan# 1180

Delta R.T. 0.00 min

Lab File: VD066830.D

Acq: 23 Sep 2020 13:11

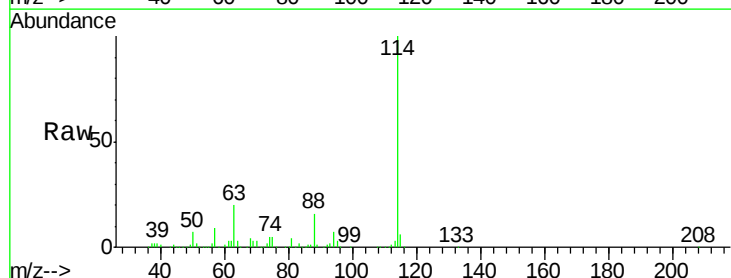
Tgt Ion: 114 Resp: 738604

Ion Ratio Lower Upper

114 100

63 20.1 0.0 42.6

88 16.4 0.0 32.6



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VDC

Ion 87.90 (87.60 to 88.60): VDC

8.86

500000

400000

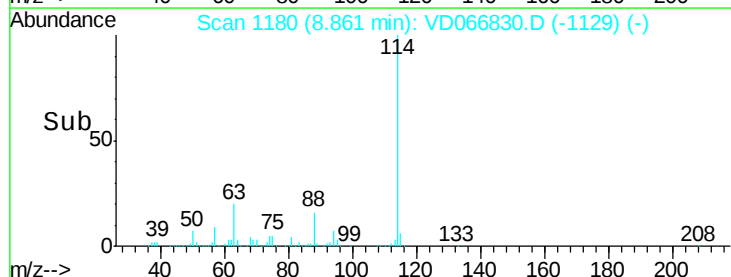
300000

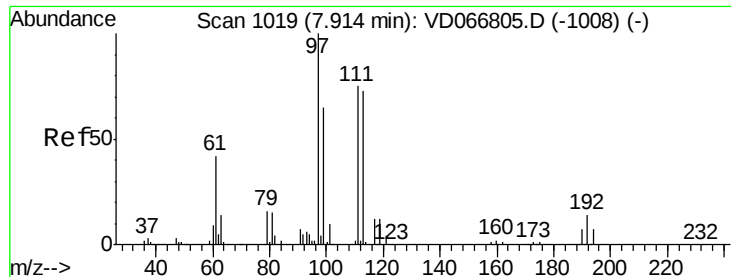
200000

100000

0

Time--> 8.80 8.90 9.00





#35

Dibromofluoromethane

Concen: 51.340 ug/l

RT: 7.91 min Scan# 1019

Delta R.T. 0.00 min

Lab File: VD066830.D

Acq: 23 Sep 2020 13:11

Instrument :

MSVOA\_D

ClientSampleId :

MTB-SP

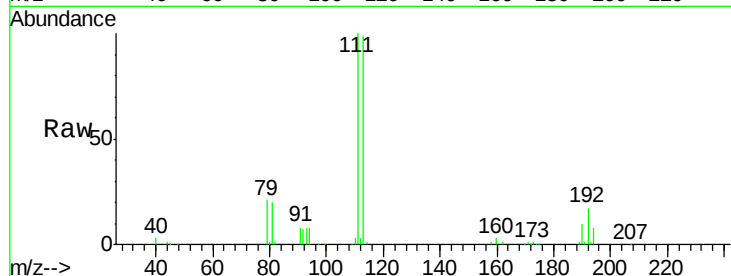
Tgt Ion:113 Resp: 241245

Ion Ratio Lower Upper

113 100

111 104.1 81.8 122.8

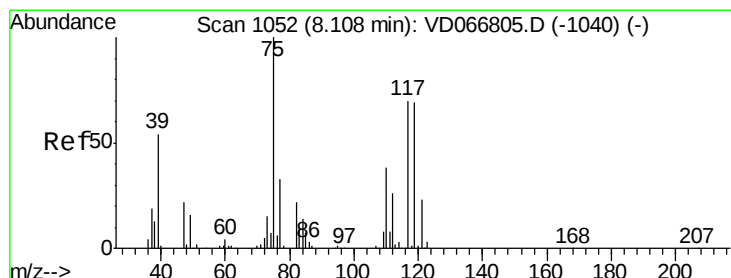
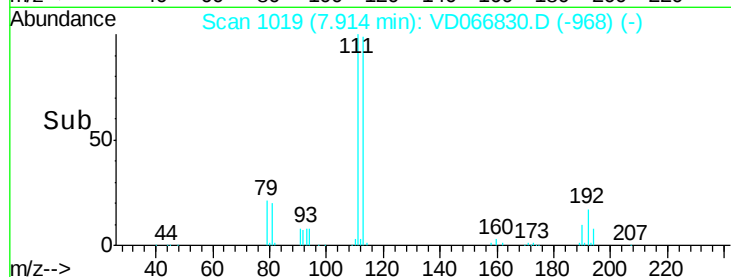
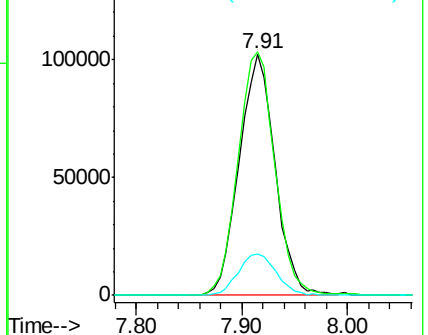
192 18.4 14.4 21.6



Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V



#36

1,1-Dichloropropene

Concen: 4.582 ug/l

RT: 7.97 min Scan# 1029

Delta R.T. -0.14 min

Lab File: VD066830.D

Acq: 23 Sep 2020 13:11

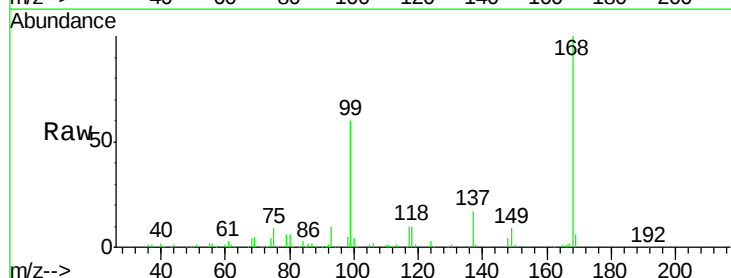
Tgt Ion: 75 Resp: 33574

Ion Ratio Lower Upper

75 100

110 9.9 17.9 53.8#

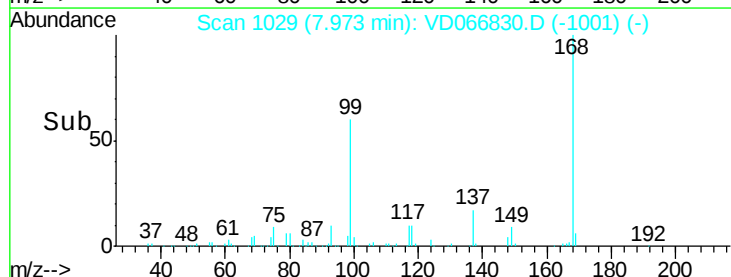
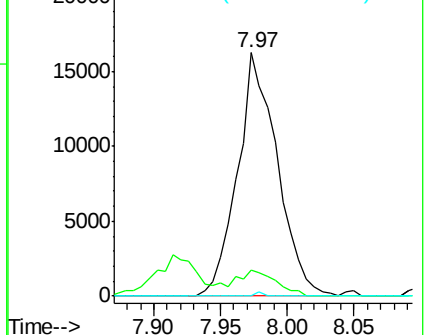
77 0.3 25.0 37.6#

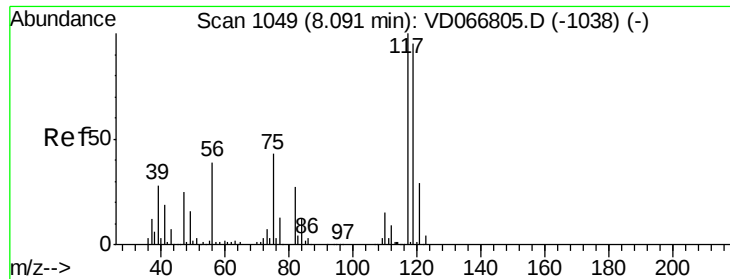


Abundance Ion 74.90 (74.60 to 75.60): V

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): V

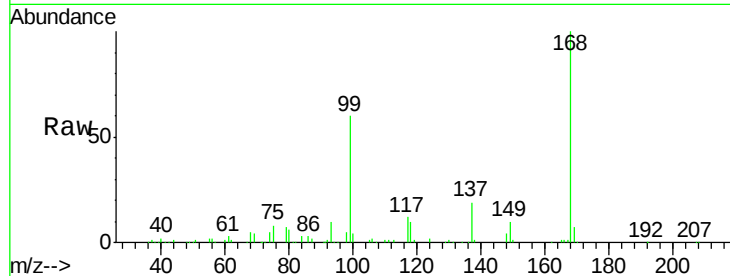




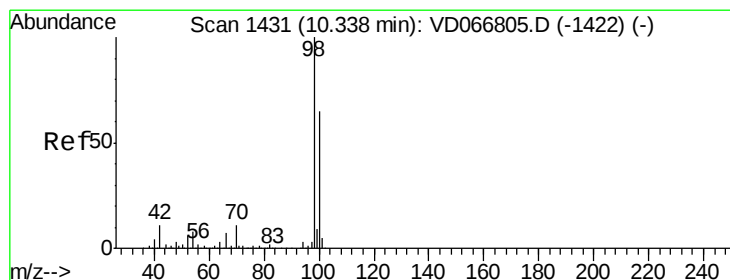
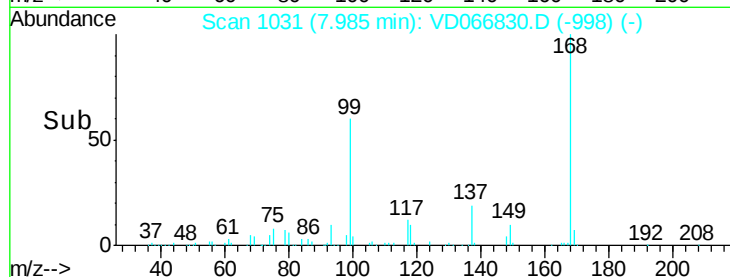
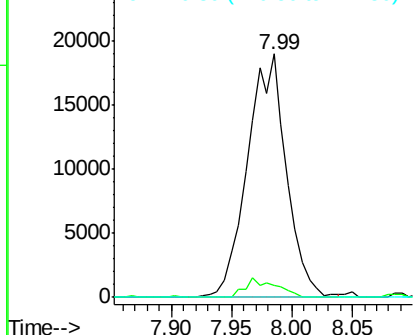
#38  
Carbon Tetrachloride  
Concen: 5.323 ug/l  
RT: 7.99 min Scan# 1031  
Delta R.T. -0.11 min  
Lab File: VD066830.D  
Acq: 23 Sep 2020 13:11

Instrument :  
MSVOA\_D  
ClientSampleId :  
MTB-SP

Tgt Ion:117 Resp: 42645  
Ion Ratio Lower Upper  
117 100  
119 4.8 75.8 113.8#  
121 0.0 23.4 35.0#

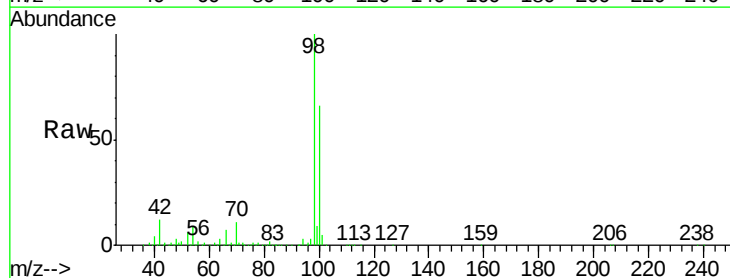


Abundance Ion 116.80 (116.50 to 117.50): V  
Ion 118.80 (118.50 to 119.50): V  
Ion 120.80 (120.50 to 121.50): V

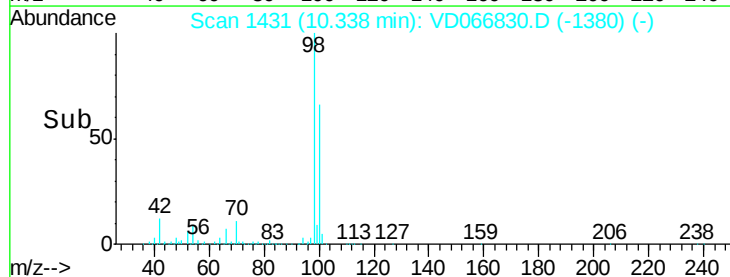
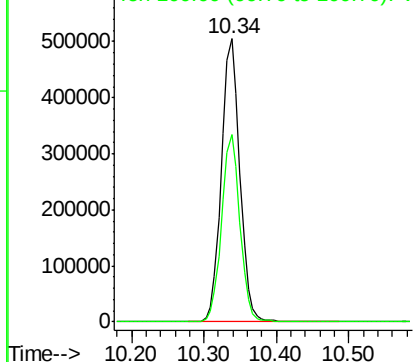


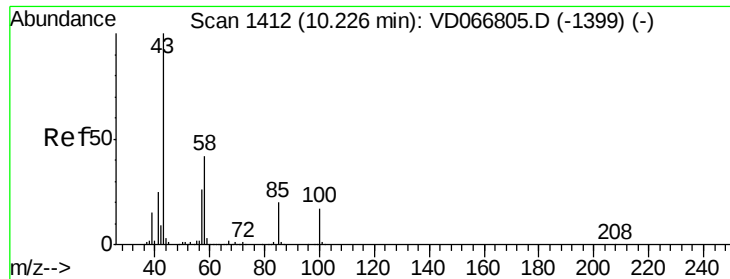
#50  
Toluene-d8  
Concen: 55.881 ug/l  
RT: 10.34 min Scan# 1431  
Delta R.T. 0.00 min  
Lab File: VD066830.D  
Acq: 23 Sep 2020 13:11

Tgt Ion: 98 Resp: 894668  
Ion Ratio Lower Upper  
98 100  
100 65.9 52.2 78.2



Abundance Ion 98.00 (97.70 to 98.70): VDC  
Ion 100.00 (99.70 to 100.70): VDC

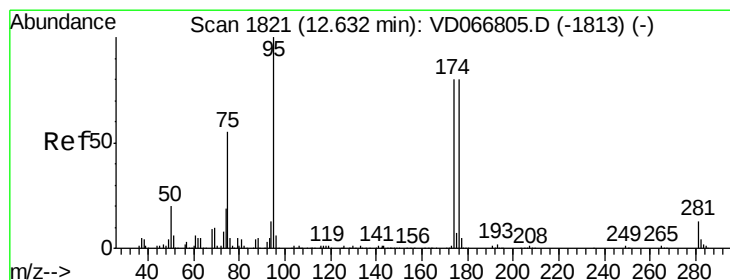
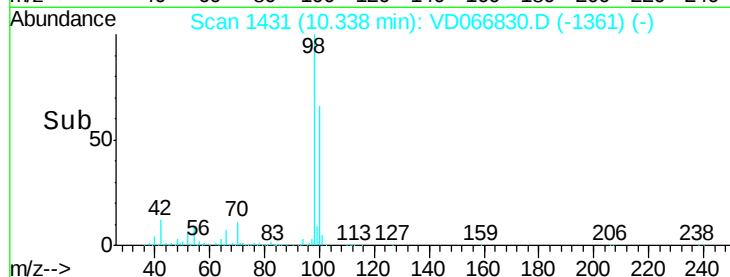
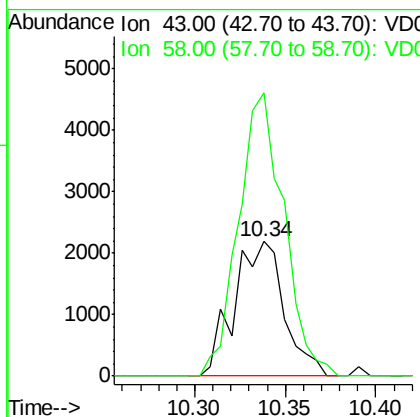
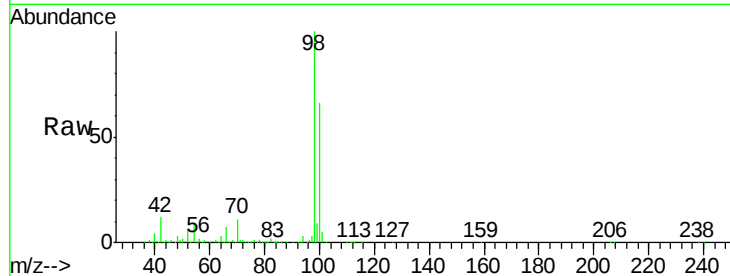




#51  
 4-Methyl-2-Pentanone  
 Concen: 1.630 ug/l  
 RT: 10.34 min Scan# 1431  
 Delta R.T. 0.11 min  
 Lab File: VD066830.D  
 Acq: 23 Sep 2020 13:11

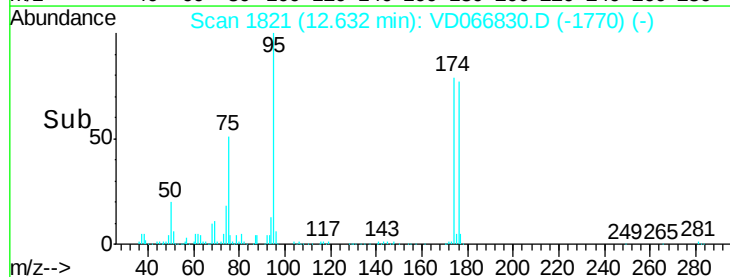
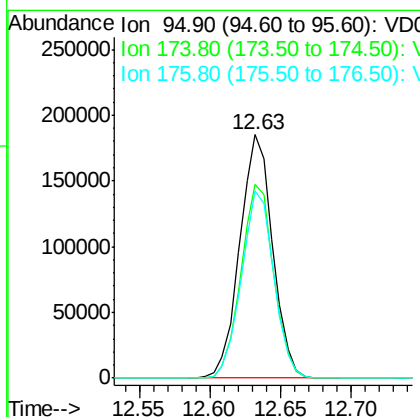
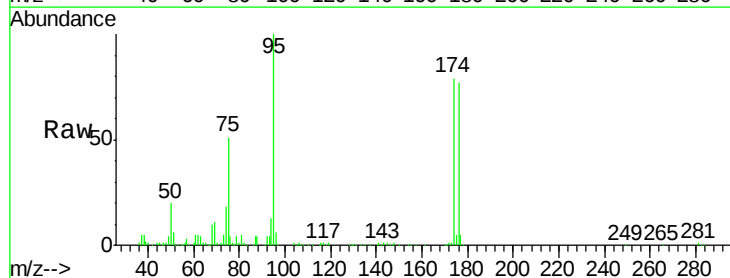
Instrument :  
 MSVOA\_D  
 ClientSampled :  
 MTB-SP

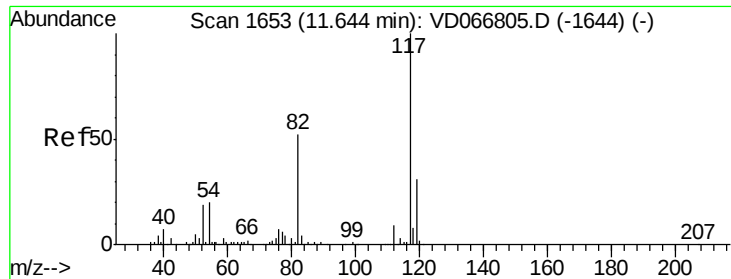
Tgt Ion: 43 Resp: 4218  
 Ion Ratio Lower Upper  
 43 100  
 58 190.5 32.2 48.4#



#62  
 4-Bromofluorobenzene  
 Concen: 54.908 ug/l  
 RT: 12.63 min Scan# 1821  
 Delta R.T. 0.00 min  
 Lab File: VD066830.D  
 Acq: 23 Sep 2020 13:11

Tgt Ion: 95 Resp: 300945  
 Ion Ratio Lower Upper  
 95 100  
 174 79.2 0.0 159.8  
 176 76.3 0.0 154.4

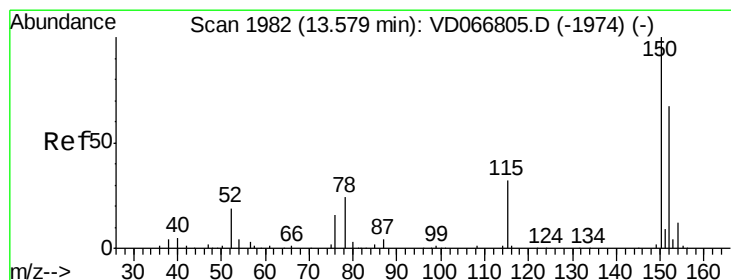
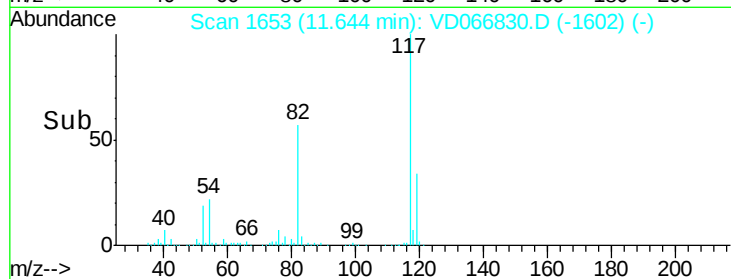
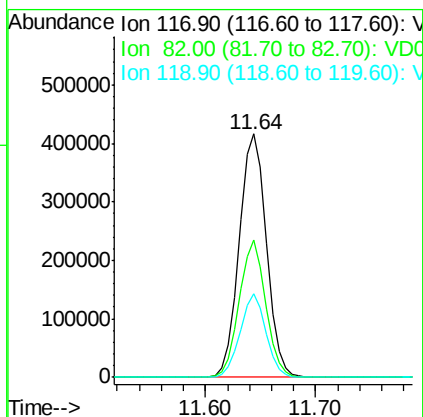
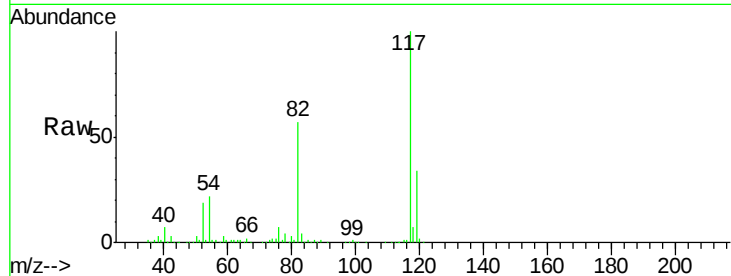




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.64 min Scan# 1653  
Delta R.T. 0.00 min  
Lab File: VD066830.D  
Acq: 23 Sep 2020 13:11

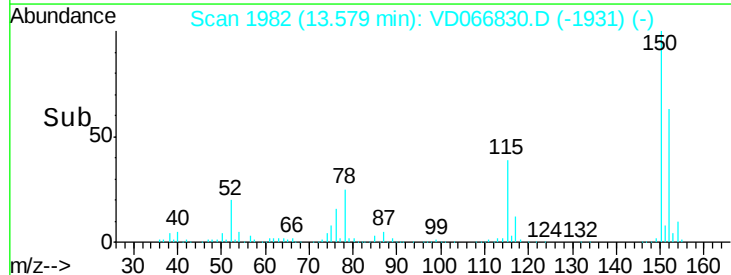
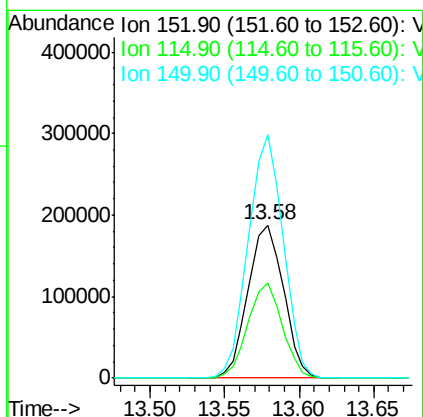
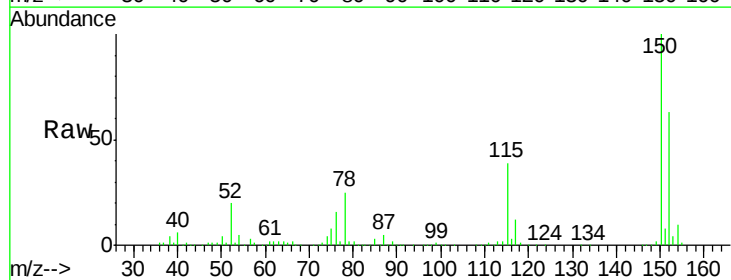
Instrument :  
MSVOA\_D  
ClientSampled :  
MTB-SP

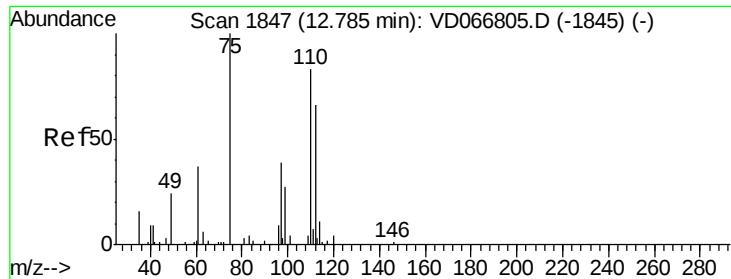
Tgt Ion:117 Resp: 724827  
Ion Ratio Lower Upper  
117 100  
82 56.5 41.8 62.6  
119 34.5 24.6 37.0



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.58 min Scan# 1982  
Delta R.T. 0.00 min  
Lab File: VD066830.D  
Acq: 23 Sep 2020 13:11

Tgt Ion:152 Resp: 309922  
Ion Ratio Lower Upper  
152 100  
115 60.3 30.3 91.0  
150 156.4 0.0 346.2





#76

1,2,3-Trichloropropane

Concen: 60.890 ug/l

RT: 12.63 min Scan# 1821

Delta R.T. -0.15 min

Lab File: VD066830.D

Acq: 23 Sep 2020 13:11

Instrument :

MSVOA\_D

ClientSampleId :

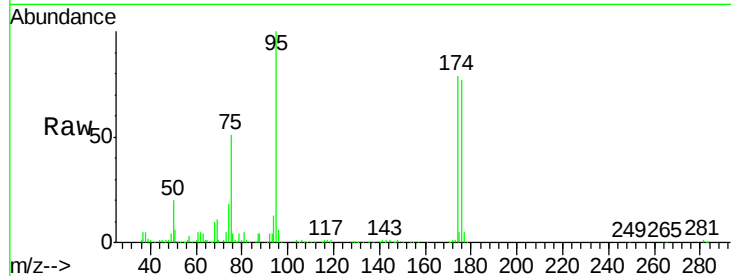
MTB-SP

Tgt Ion: 75 Resp: 156390

Ion Ratio Lower Upper

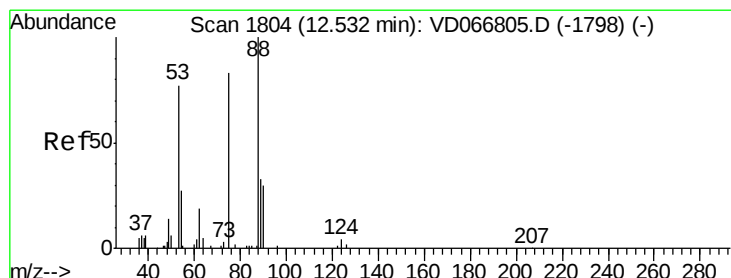
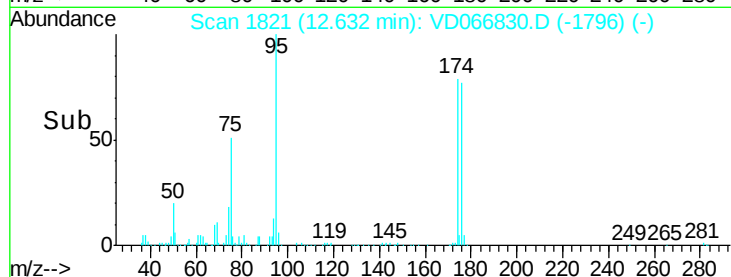
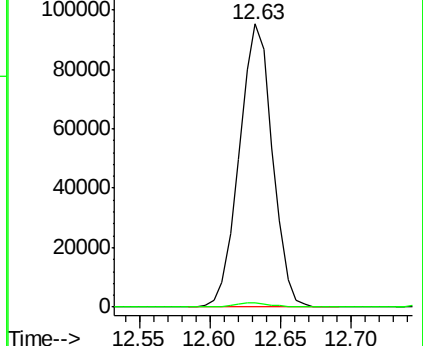
75 100

77 1.5 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VDC

Ion 77.00 (76.70 to 77.70): VDC



#81

trans-1,4-Dichloro-2-butene

Concen: 152.342 ug/l

RT: 12.63 min Scan# 1821

Delta R.T. 0.10 min

Lab File: VD066830.D

Acq: 23 Sep 2020 13:11

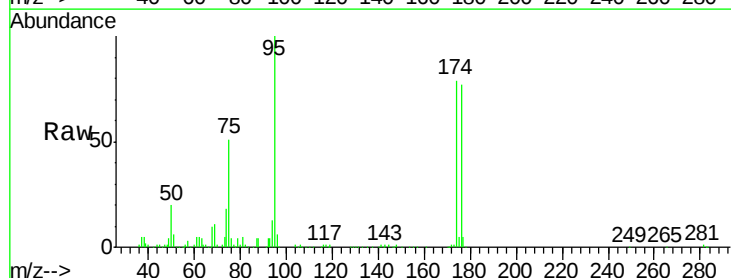
Tgt Ion: 75 Resp: 156390

Ion Ratio Lower Upper

75 100

53 0.1 78.5 117.7#

89 0.0 38.1 57.1#



Abundance Ion 74.90 (74.60 to 75.60): VDC

Ion 53.00 (52.70 to 53.70): VDC

Ion 88.90 (88.60 to 89.60): VDC

