

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD102220\  
 Data File : VD067366.D  
 Acq On : 22 Oct 2020 17:01  
 Operator : VA/SY  
 Sample : L4494-01  
 Misc : 12.40G/5.00ml/MSVOA D/SOIL  
 ALS Vial : 14 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 AB-EH

Quant Time: Oct 23 06:09:57 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D101320S.M  
 Quant Title : SW846 8260  
 QLast Update : Mon Oct 19 19:13:29 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.98  | 168  | 305877   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.87  | 114  | 493773   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.65 | 117  | 476918   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.58 | 152  | 216167   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc   | Units   | Dev(Min) |
|-----------------------------|-------|------|----------|--------|---------|----------|
| 33) 1,2-Dichloroethane-d4   | 8.33  | 65   | 165131   | 53.89  | ug/l    | 0.00     |
| Spiked Amount               |       |      |          | 50.000 |         |          |
|                             |       |      | Recovery | =      | 107.78% |          |
| 35) Dibromofluoromethane    | 7.92  | 113  | 165171   | 50.26  | ug/l    | 0.00     |
| Spiked Amount               |       |      |          | 50.000 |         |          |
|                             |       |      | Recovery | =      | 100.52% |          |
| 50) Toluene-d8              | 10.34 | 98   | 585742   | 49.26  | ug/l    | 0.00     |
| Spiked Amount               |       |      |          | 50.000 |         |          |
|                             |       |      | Recovery | =      | 98.52%  |          |
| 62) 4-Bromofluorobenzene    | 12.64 | 95   | 198203   | 47.93  | ug/l    | 0.00     |
| Spiked Amount               |       |      |          | 50.000 |         |          |
|                             |       |      | Recovery | =      | 95.86%  |          |

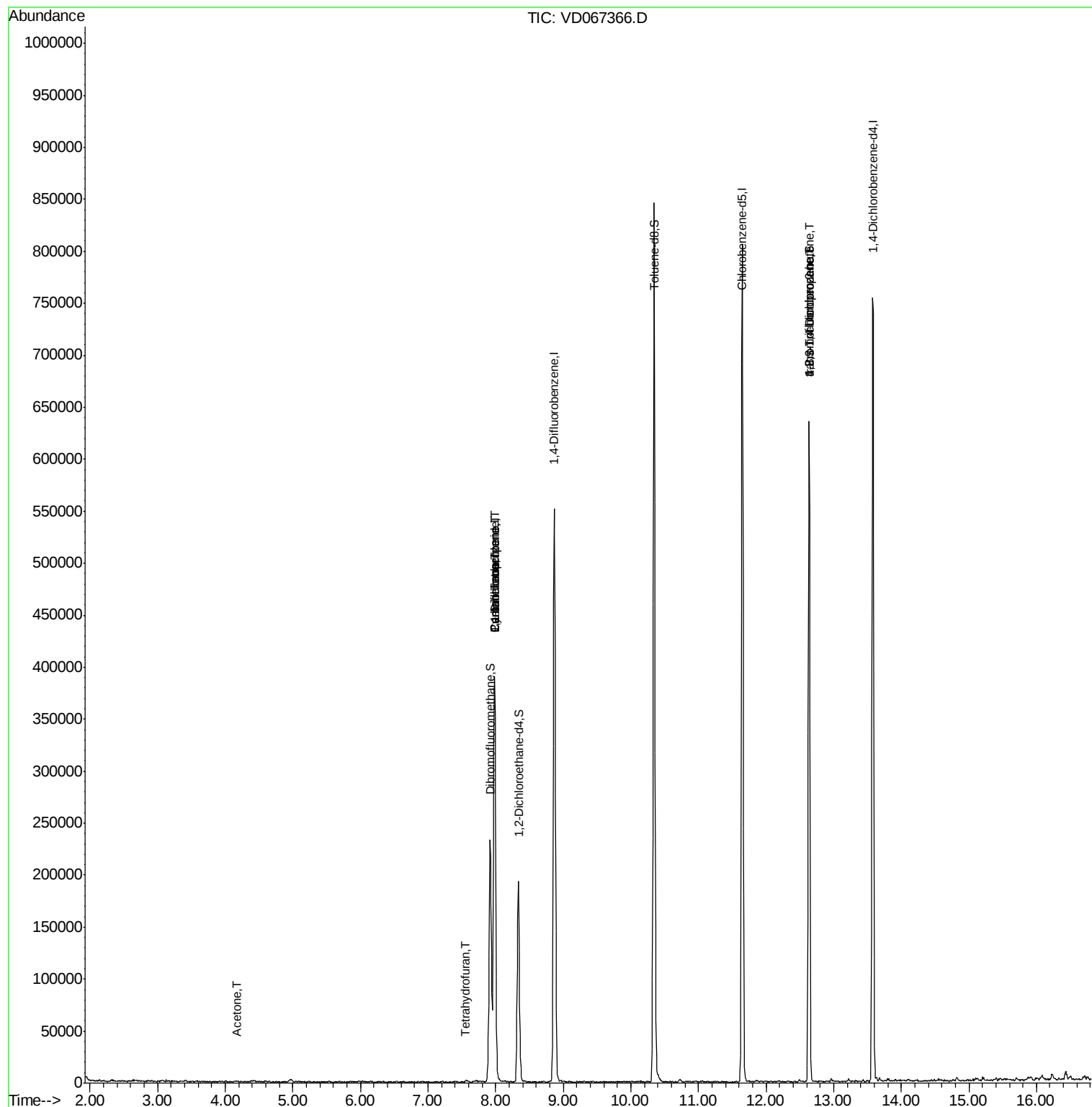
| Target Compounds               | R.T.  | QIon | Response | Conc      | Units  | Qvalue |
|--------------------------------|-------|------|----------|-----------|--------|--------|
| 2) Dichlorodifluoromethane     | 1.99  | 85   | 128      | Below Cal | #      | 44     |
| 5) Bromomethane                | 2.77  | 94   | 59       | Below Cal | #      | 3      |
| 11) Tert butyl alcohol         | 5.25  | 59   | 54       | Below Cal | #      | 81     |
| 16) Acetone                    | 4.17  | 43   | 1089     | 2.537     | ug/l # | 42     |
| 20) Methylene Chloride         | 4.97  | 84   | 1092     | Below Cal | #      | 68     |
| 29) Tetrahydrofuran            | 7.55  | 42   | 419      | 1.541     | ug/l # | 26     |
| 31) Cyclohexane                | 7.98  | 56   | 5849     | 1.657     | ug/l # | 28     |
| 36) 1,1-Dichloropropene        | 7.98  | 75   | 21630    | 5.168     | ug/l # | 48     |
| 38) Carbon Tetrachloride       | 7.98  | 117  | 32487    | 6.074     | ug/l # | 18     |
| 76) 1,2,3-Trichloropropane     | 12.64 | 75   | 104518   | 69.760    | ug/l # | 100    |
| 81) trans-1,4-Dichloro-2-buten | 12.64 | 75   | 104518   | 158.196   | ug/l # | 10     |

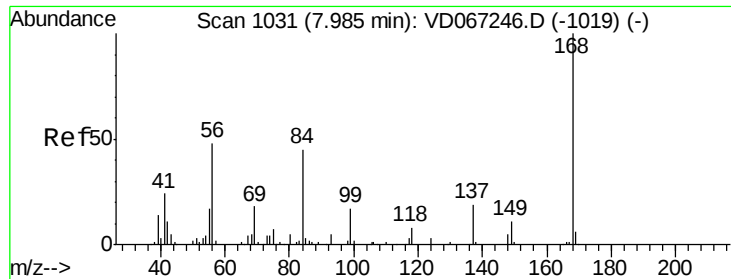
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA D\DATA\VD102220\  
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Sample : L4494-01  
Misc : 12.40G/5.00ml/MSVOA D/SOIL  
ALS Vial : 14 Sample Multiplier: 1

Instrument :  
MSVOA\_D  
ClientSampleId :  
AB-EH

Quant Time: Oct 23 06:09:57 2020  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_D\METHOD\82D101320S.M  
Quant Title : SW846 8260  
QLast Update : Mon Oct 19 19:13:29 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: VD067366.D

Acq: 22 Oct 2020 17:01

Instrument :

MSVOA\_D

ClientSampleId :

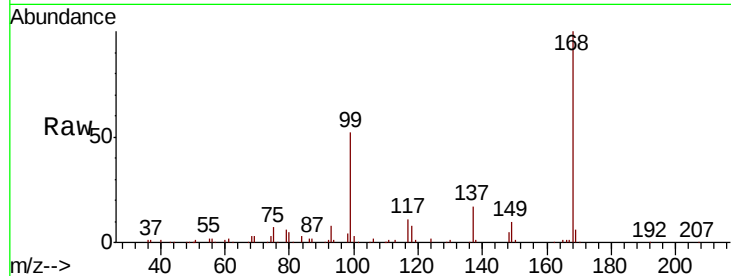
AB-EH

Tot Ion:168 Resp: 305877

Ion Ratio Lower Upper

168 100

99 51.7 45.9 68.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VDC

7.98

150000

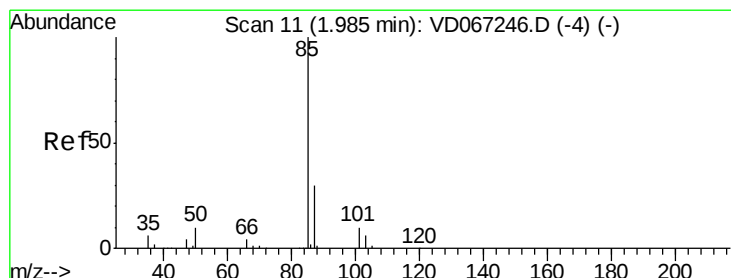
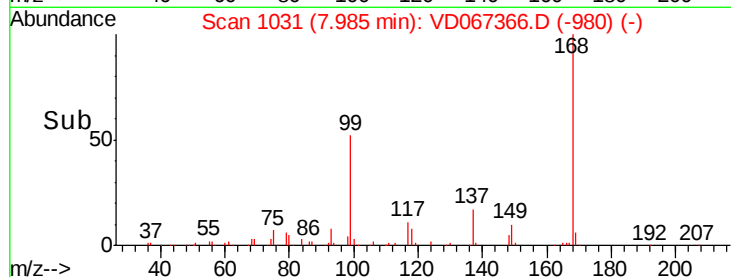
100000

50000

0

Time-->

7.90 8.00 8.10



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 1.99 min Scan# 12

Delta R.T. 0.01 min

Lab File: VD067366.D

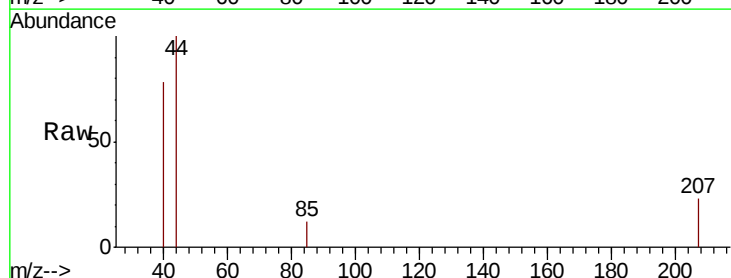
Acq: 22 Oct 2020 17:01

Tgt Ion: 85 Resp: 128

Ion Ratio Lower Upper

85 100

87 0.0 15.2 45.6#



Abundance Ion 84.90 (84.60 to 85.60): VDC

Ion 86.90 (86.60 to 87.60): VDC

1.99

200

150

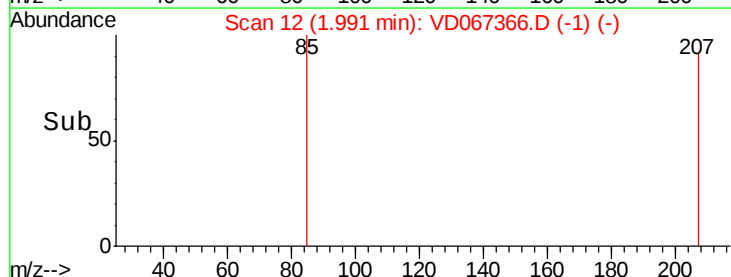
100

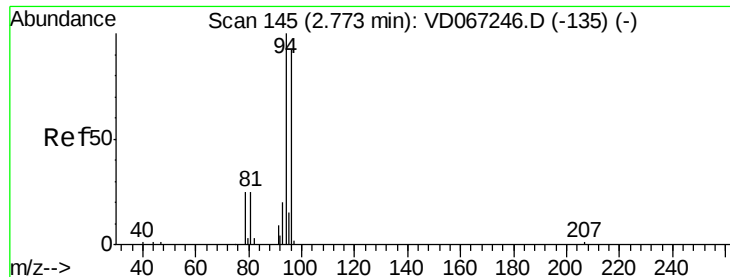
50

0

Time-->

1.96 1.98 2.00





#5

Bromomethane

Concen: Below Cal

RT: 2.77 min Scan# 144

Delta R.T. -0.01 min

Lab File: VD067366.D

Acq: 22 Oct 2020 17:01

Instrument :

MSVOA\_D

ClientSampleId :

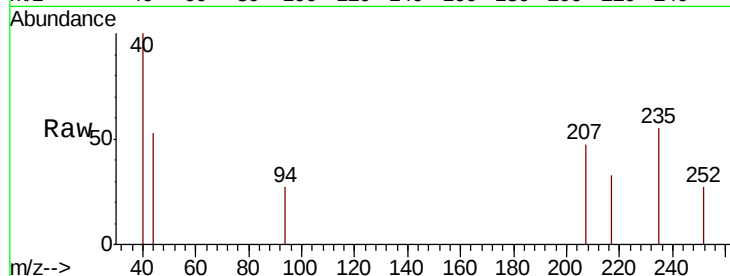
AB-EH

Tot Ion: 94 Resp: 59

Ion Ratio Lower Upper

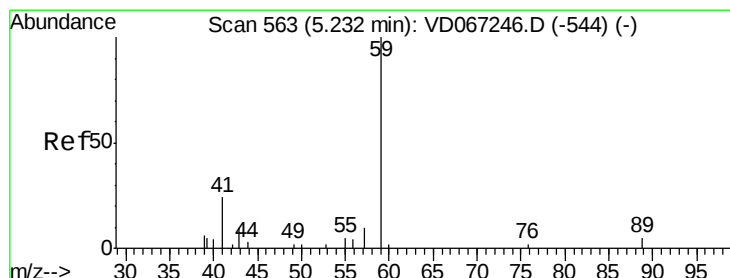
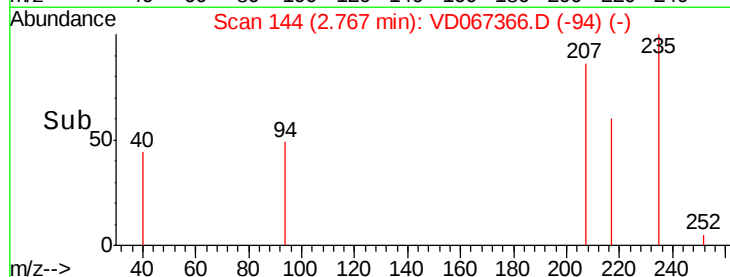
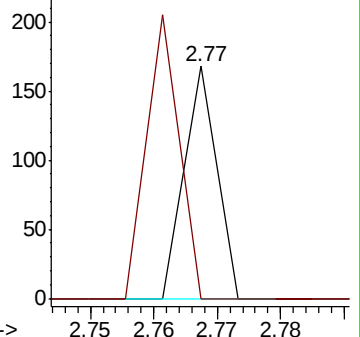
94 100

96 0.0 73.8 110.6#



Abundance Ion 93.90 (93.60 to 94.60): VDC

Ion 95.90 (95.60 to 96.60): VDC



#11

Tert butyl alcohol

Concen: Below Cal

RT: 5.25 min Scan# 566

Delta R.T. 0.02 min

Lab File: VD067366.D

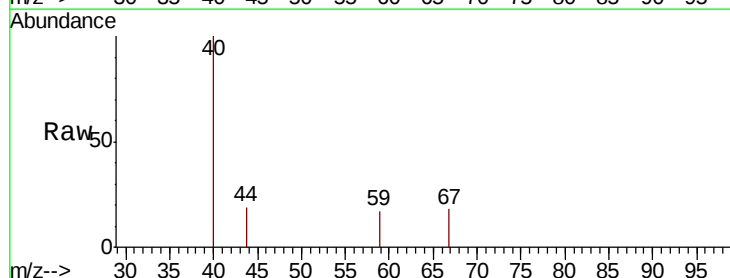
Acq: 22 Oct 2020 17:01

Tgt Ion: 59 Resp: 54

Ion Ratio Lower Upper

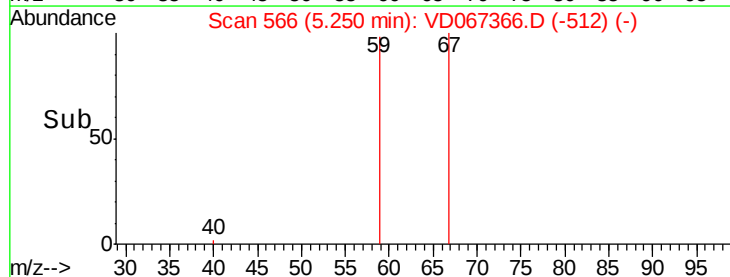
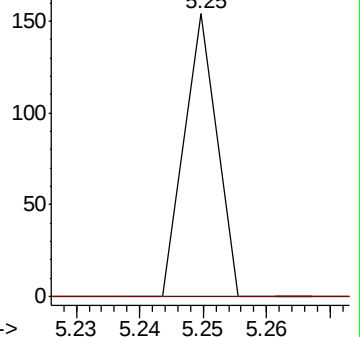
59 100

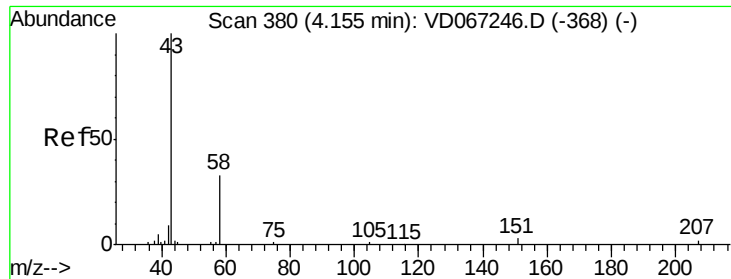
57 0.0 5.1 7.7#



Abundance Ion 59.00 (58.70 to 59.70): VDC

Ion 57.00 (56.70 to 57.70): VDC





#16

Acetone

Concen: 2.537 ug/l

RT: 4.17 min Scan# 382

Delta R.T. 0.01 min

Lab File: VD067366.D

Acq: 22 Oct 2020 17:01

Instrument :

MSVOA\_D

ClientSampleId :

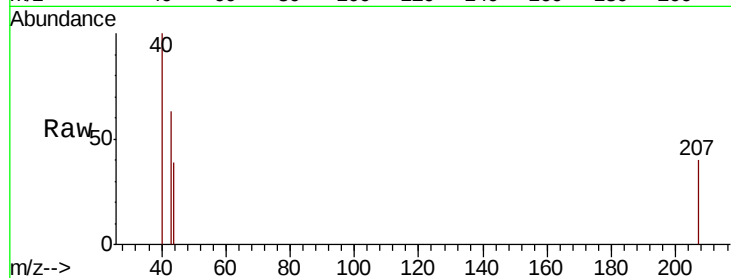
AB-EH

Tot Ion: 43 Resp: 1089

Ion Ratio Lower Upper

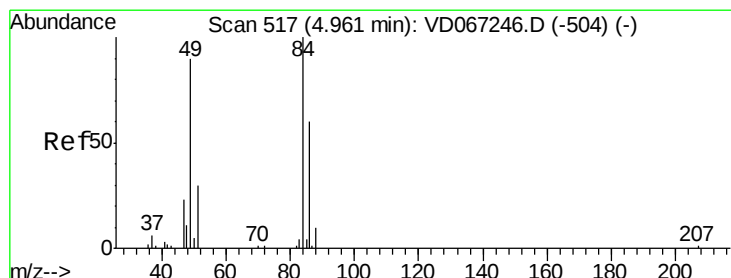
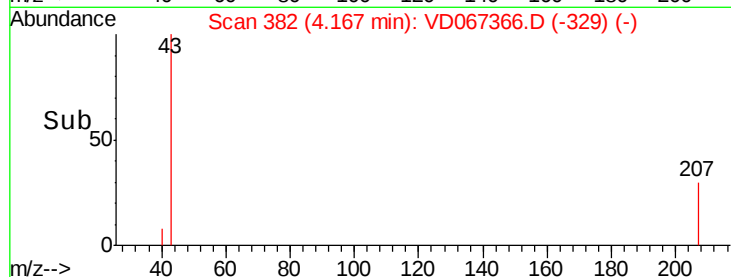
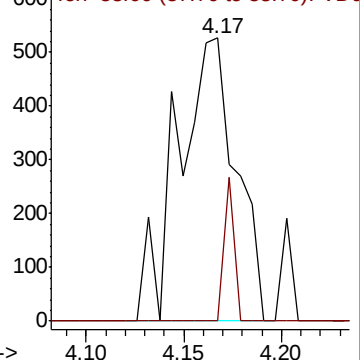
43 100

58 0.0 26.1 39.1#



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 58.00 (57.70 to 58.70): VDC



#20

Methylene Chloride

Concen: Below Cal

RT: 4.97 min Scan# 518

Delta R.T. 0.01 min

Lab File: VD067366.D

Acq: 22 Oct 2020 17:01

Tgt Ion: 84 Resp: 1092

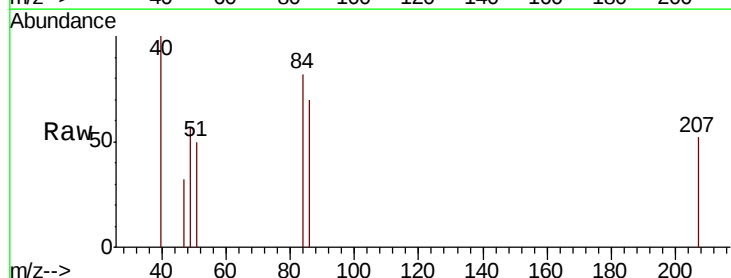
Ion Ratio Lower Upper

84 100

49 69.5 72.2 108.2#

51 61.3 23.8 35.8#

86 85.3 48.2 72.4#

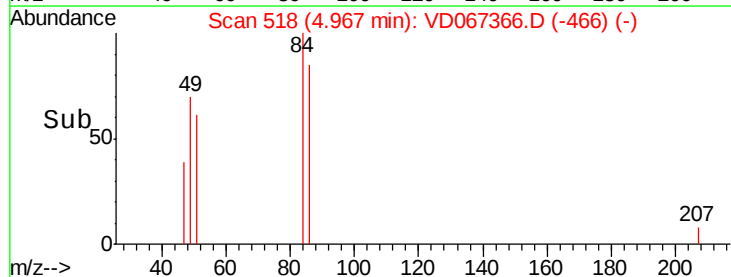
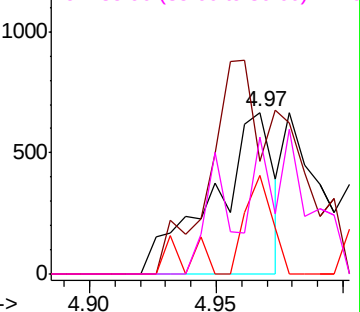


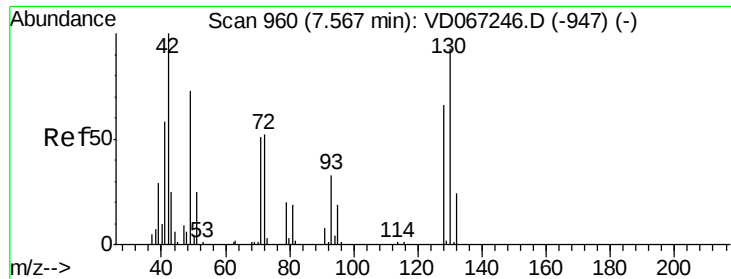
Abundance Ion 83.90 (83.60 to 84.60): VDC

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

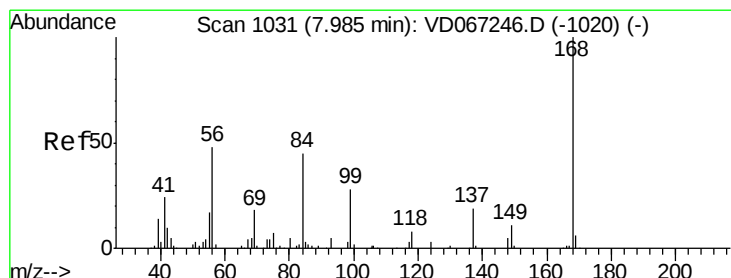
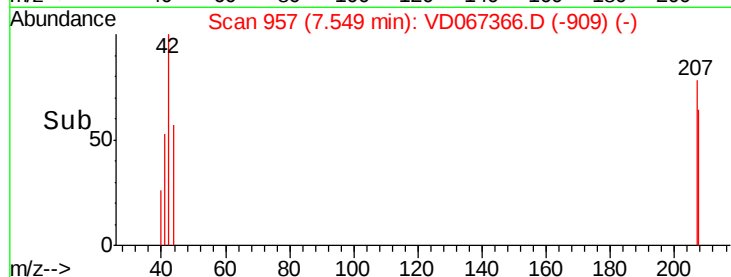
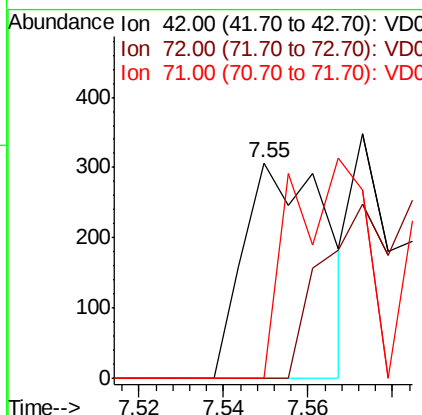
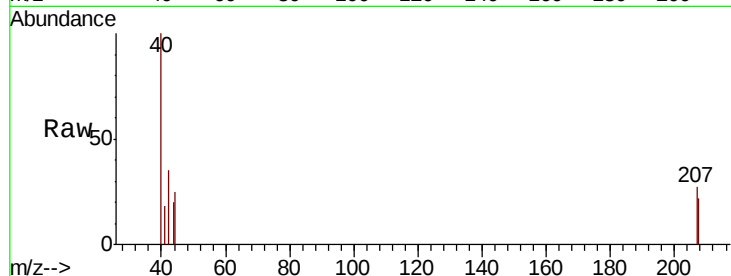




#29  
Tetrahydrofuran  
Concen: 1.541 ug/l  
RT: 7.55 min Scan# 957  
Delta R.T. -0.02 min  
Lab File: VD067366.D  
Acq: 22 Oct 2020 17:01

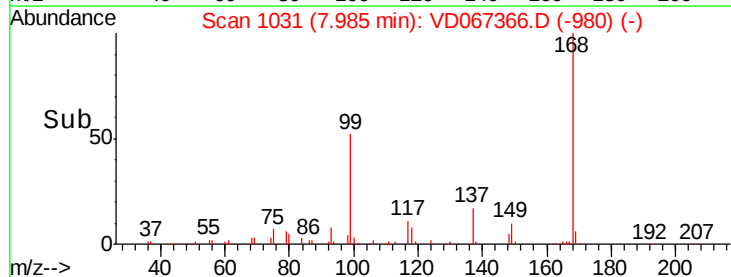
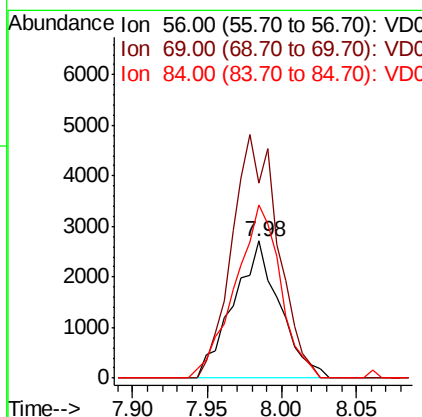
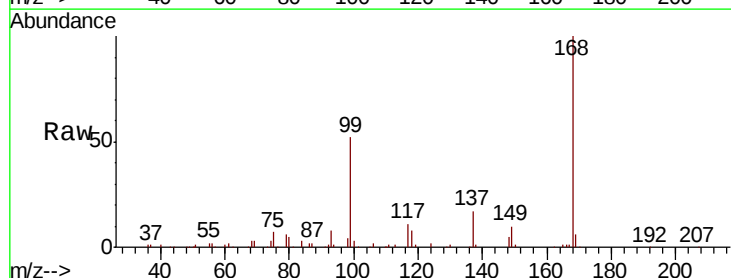
Instrument :  
MSVOA\_D  
ClientSampleId :  
AB-EH

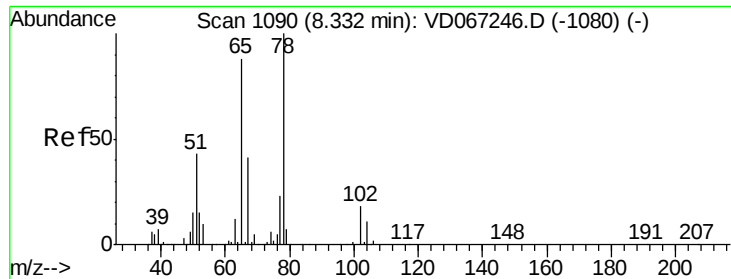
Tot Ion: 42 Resp: 419  
Ion Ratio Lower Upper  
42 100  
72 0.0 43.2 64.8#  
71 0.0 39.4 59.0#



#31  
Cyclohexane  
Concen: 1.657 ug/l  
RT: 7.98 min Scan# 1031  
Delta R.T. 0.00 min  
Lab File: VD067366.D  
Acq: 22 Oct 2020 17:01

Tgt Ion: 56 Resp: 5849  
Ion Ratio Lower Upper  
56 100  
69 142.6 29.8 44.6#  
84 126.8 76.6 114.8#





#33

1,2-Dichloroethane-d4

Concen: 53.886 ug/l

RT: 8.33 min Scan# 1090

Delta R.T. 0.00 min

Lab File: VD067366.D

Acq: 22 Oct 2020 17:01

Instrument :

MSVOA\_D

ClientSampleId :

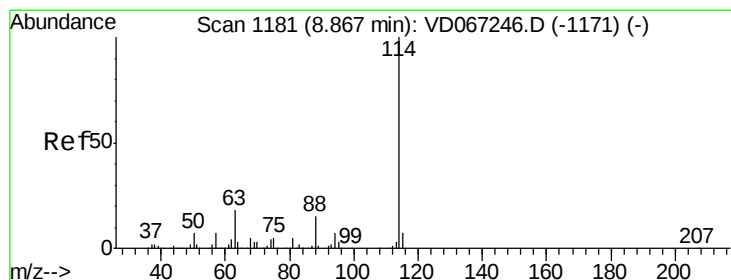
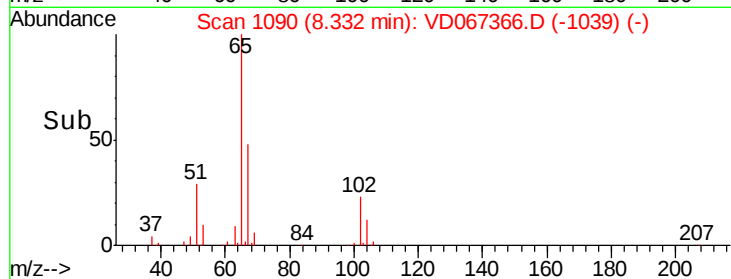
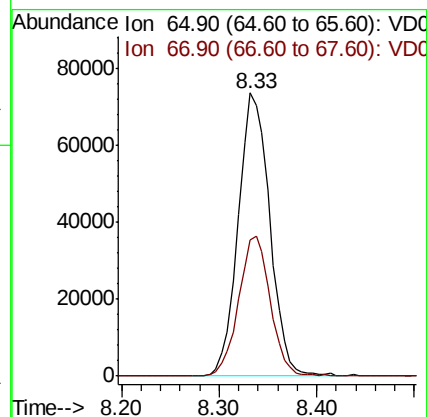
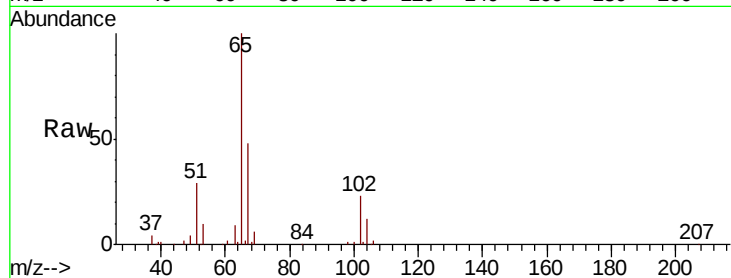
AB-EH

Tot Ion: 65 Resp: 165131

Ion Ratio Lower Upper

65 100

67 49.6 0.0 103.8



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.87 min Scan# 1181

Delta R.T. 0.00 min

Lab File: VD067366.D

Acq: 22 Oct 2020 17:01

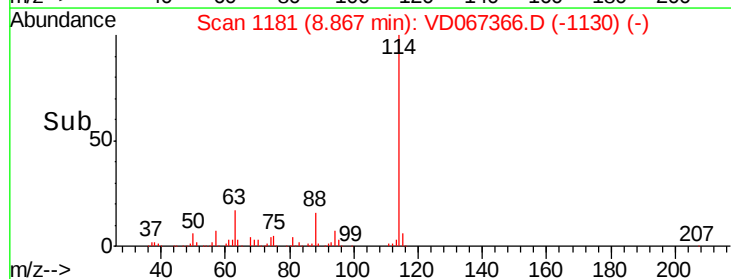
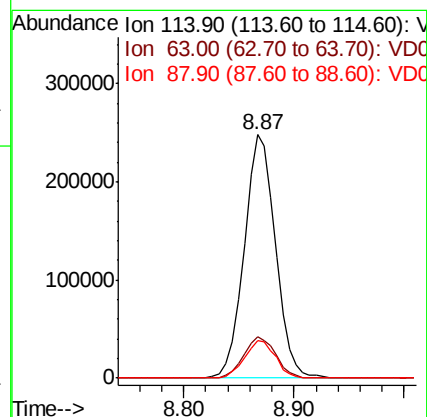
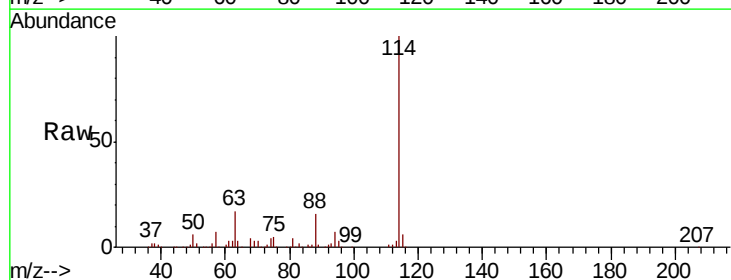
Tgt Ion: 114 Resp: 493773

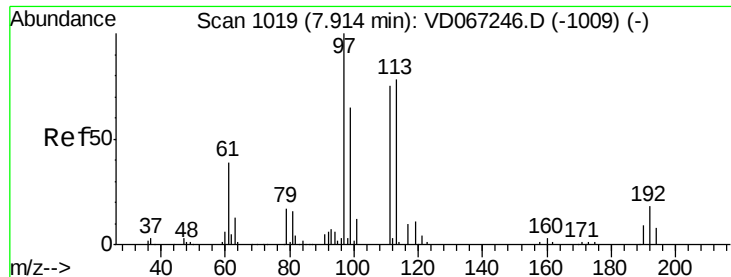
Ion Ratio Lower Upper

114 100

63 17.0 0.0 35.0

88 15.6 0.0 30.6

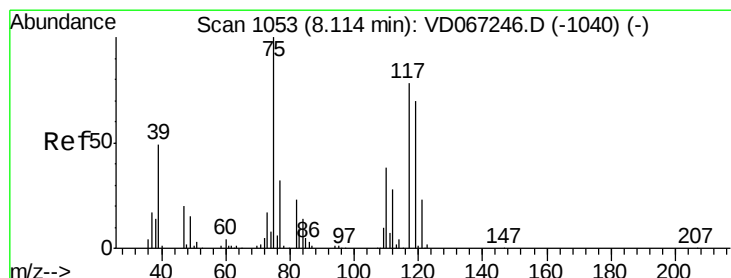
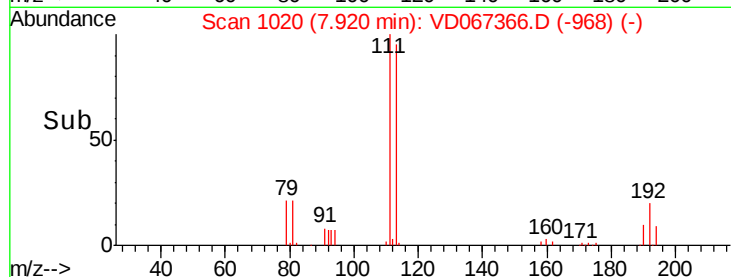
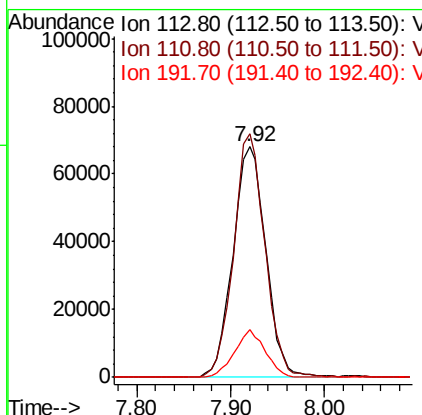
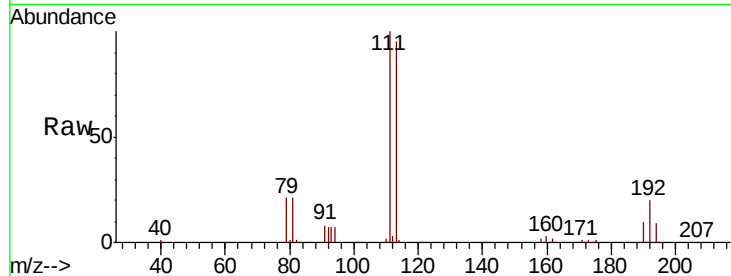




#35  
 Dibromofluoromethane  
 Concen: 50.264 ug/l  
 RT: 7.92 min Scan# 1020  
 Delta R.T. 0.01 min  
 Lab File: VD067366.D  
 Acq: 22 Oct 2020 17:01

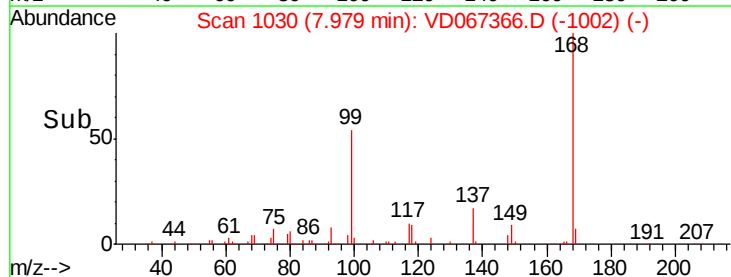
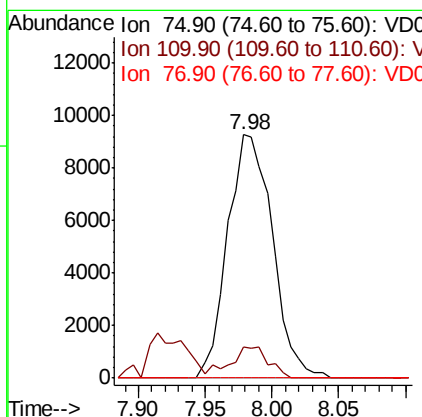
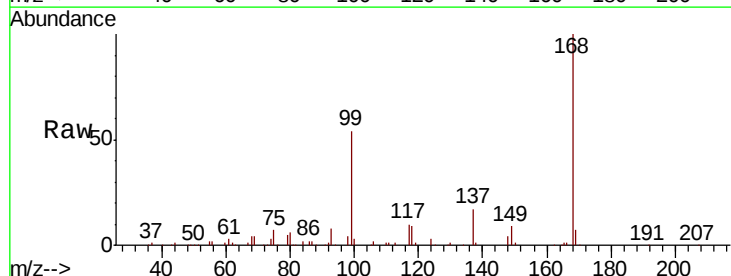
Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 AB-EH

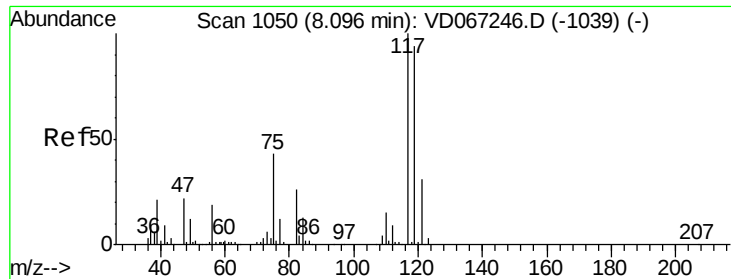
Tot Ion:113 Resp: 165171  
 Ion Ratio Lower Upper  
 113 100  
 111 100.3 81.6 122.4  
 192 19.2 17.0 25.4



#36  
 1,1-Dichloropropene  
 Concen: 5.168 ug/l  
 RT: 7.98 min Scan# 1030  
 Delta R.T. -0.14 min  
 Lab File: VD067366.D  
 Acq: 22 Oct 2020 17:01

Tgt Ion: 75 Resp: 21630  
 Ion Ratio Lower Upper  
 75 100  
 110 9.7 19.6 58.7#  
 77 0.0 24.6 37.0#

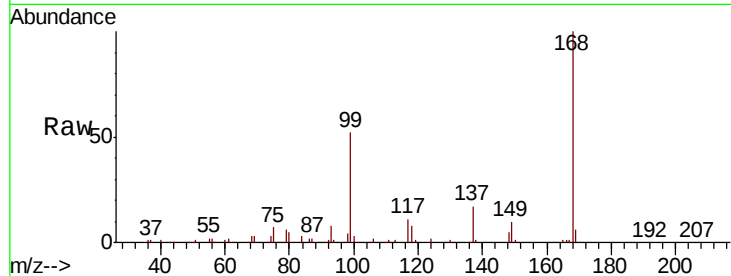




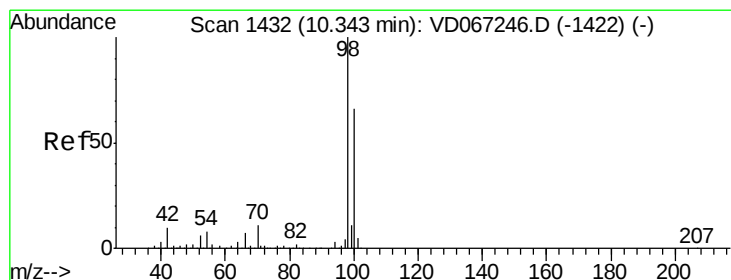
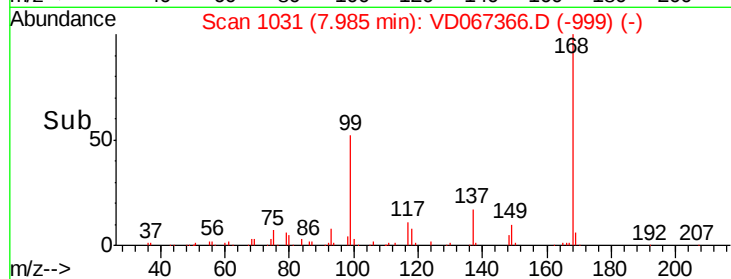
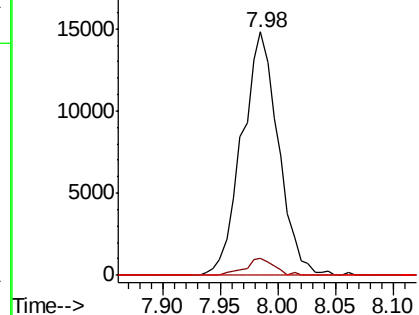
#38  
Carbon Tetrachloride  
Concen: 6.074 ug/l  
RT: 7.98 min Scan# 1031  
Delta R.T. -0.11 min  
Lab File: VD067366.D  
Acq: 22 Oct 2020 17:01

Instrument :  
MSVOA\_D  
ClientSampled :  
AB-EH

Tot Ion:117 Resp: 32487  
Ion Ratio Lower Upper  
117 100  
119 6.8 75.0 112.4#  
121 0.0 24.9 37.3#

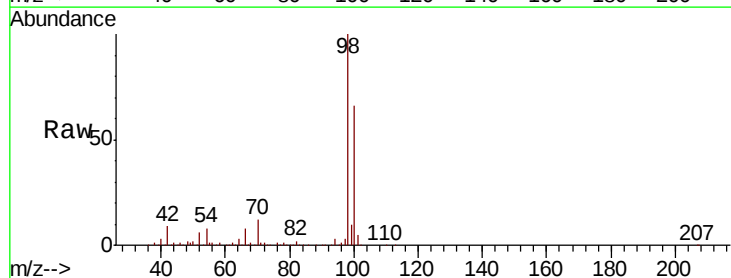


Abundance Ion 116.80 (116.50 to 117.50): V  
Ion 118.80 (118.50 to 119.50): V  
Ion 120.80 (120.50 to 121.50): V

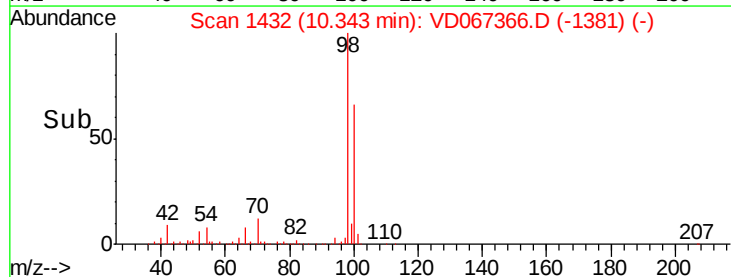
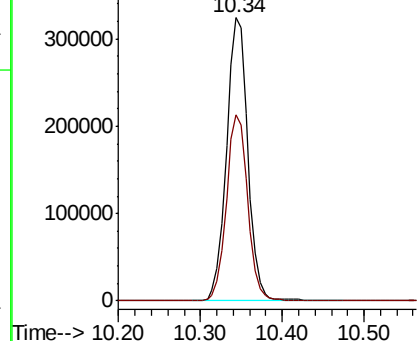


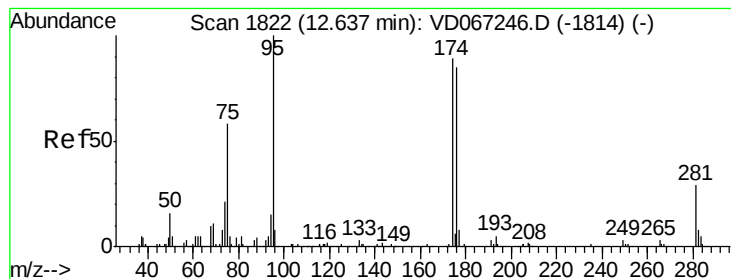
#50  
Toluene-d8  
Concen: 49.255 ug/l  
RT: 10.34 min Scan# 1432  
Delta R.T. 0.00 min  
Lab File: VD067366.D  
Acq: 22 Oct 2020 17:01

Tgt Ion: 98 Resp: 585742  
Ion Ratio Lower Upper  
98 100  
100 65.7 53.1 79.7



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





#62

4-Bromofluorobenzene

Concen: 47.932 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. 0.00 min

Lab File: VD067366.D

Acq: 22 Oct 2020 17:01

Instrument :

MSVOA\_D

ClientSampleId :

AB-EH

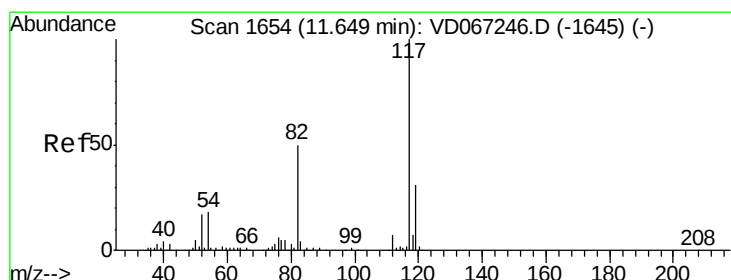
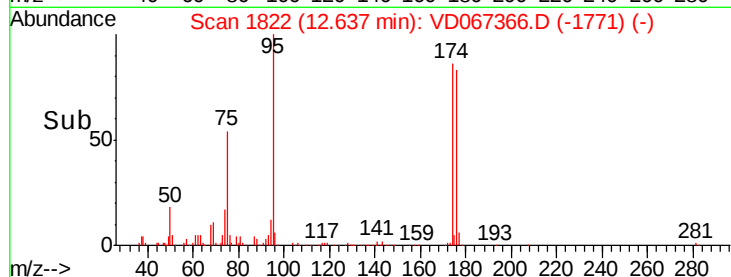
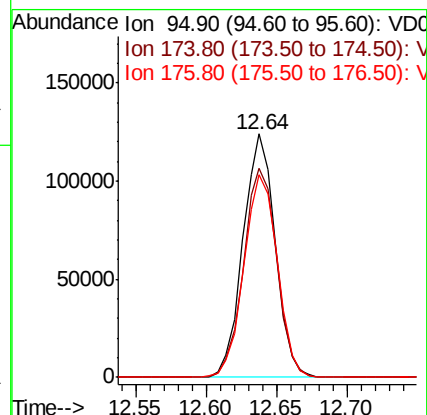
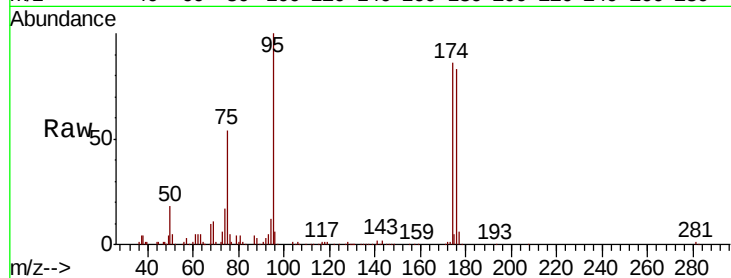
Tot Ion: 95 Resp: 198203

Ion Ratio Lower Upper

95 100

174 88.0 0.0 175.2

176 86.4 0.0 168.6



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.65 min Scan# 1654

Delta R.T. 0.00 min

Lab File: VD067366.D

Acq: 22 Oct 2020 17:01

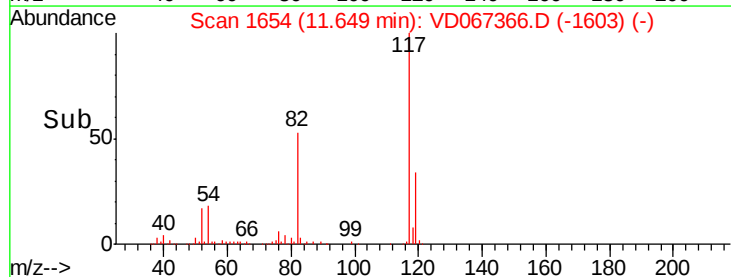
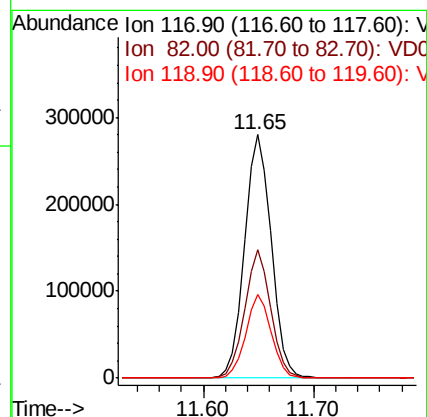
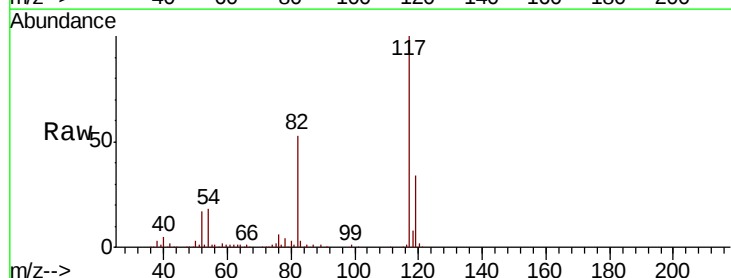
Tgt Ion: 117 Resp: 476918

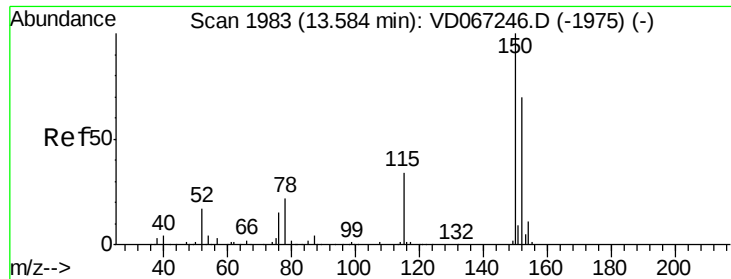
Ion Ratio Lower Upper

117 100

82 52.8 39.9 59.9

119 34.1 24.9 37.3



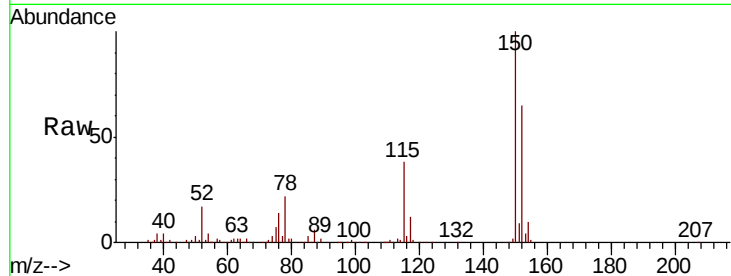


#72

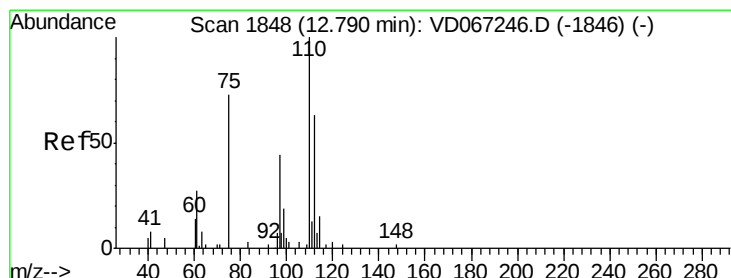
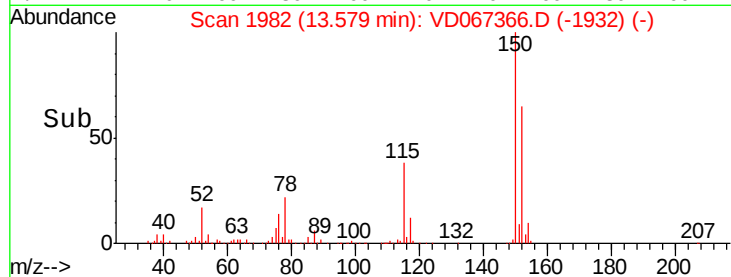
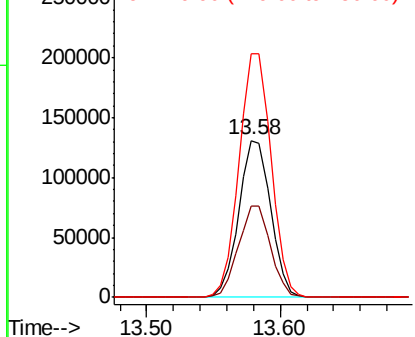
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.58 min Scan# 1982  
Delta R.T. -0.01 min  
Lab File: VD067366.D  
Acq: 22 Oct 2020 17:01

Instrument :  
MSVOA\_D  
ClientSampleId :  
AB-EH

Tot Ion:152 Resp: 216167  
Ion Ratio Lower Upper  
152 100  
115 58.7 29.3 87.9  
150 156.4 0.0 339.0



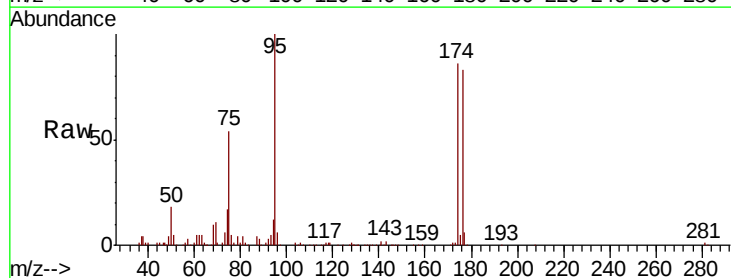
Abundance Ion 151.90 (151.60 to 152.60): V  
Ion 114.90 (114.60 to 115.60): V  
Ion 149.90 (149.60 to 150.60): V



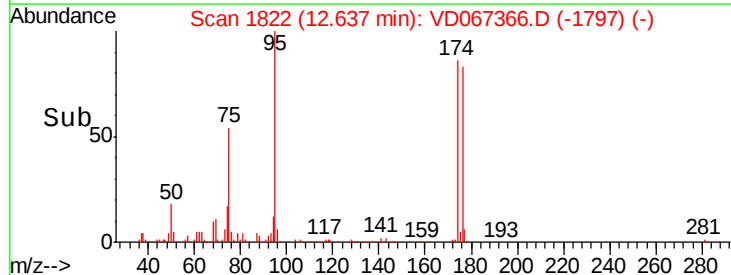
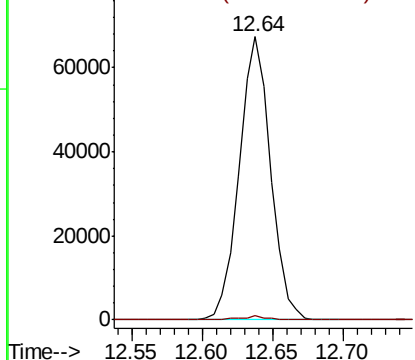
#76

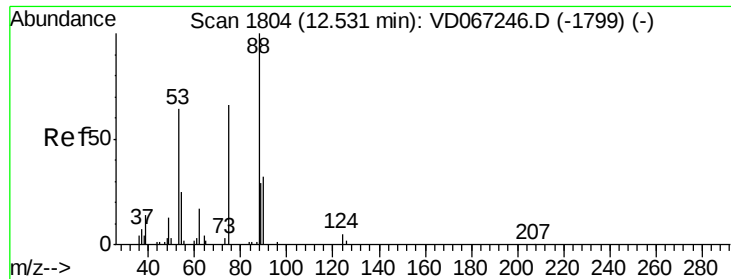
1,2,3-Trichloropropane  
Concen: 69.760 ug/l  
RT: 12.64 min Scan# 1822  
Delta R.T. -0.15 min  
Lab File: VD067366.D  
Acq: 22 Oct 2020 17:01

Tgt Ion: 75 Resp: 104518  
Ion Ratio Lower Upper  
75 100  
77 1.2 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: 158.196 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. 0.11 min

Lab File: VD067366.D

Acq: 22 Oct 2020 17:01

Instrument :

MSVOA\_D

ClientSampleId :

AB-EH

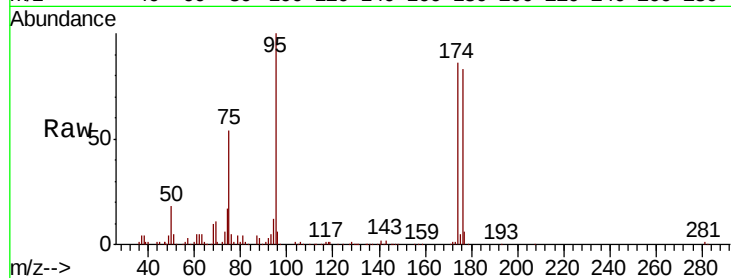
Tot Ion: 75 Resp: 104518

Ion Ratio Lower Upper

75 100

53 0.0 78.5 117.7#

89 0.3 39.9 59.9#



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

