

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD101520\  
 Data File : VD067282.D  
 Acq On : 15 Oct 2020 14:38  
 Operator : VA/SY  
 Sample : L4392-09  
 Misc : 6.47G/5.00ml/MSVOA D/SOIL  
 ALS Vial : 10 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 TP-3

Quant Time: Oct 16 01:02:21 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D101320S.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Oct 14 03:30:30 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.98  | 168  | 326765   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.87  | 114  | 556758   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.65 | 117  | 536516   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.58 | 152  | 262936   | 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   | 184013   | 56.21 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 112.42% |          |
| 35) Dibromofluoromethane    | 7.92  | 113  | 182099   | 49.15 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 98.30%  |          |
| 50) Toluene-d8              | 10.34 | 98   | 653675   | 48.75 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 97.50%  |          |
| 62) 4-Bromofluorobenzene    | 12.64 | 95   | 231685   | 49.69 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 99.38%  |          |

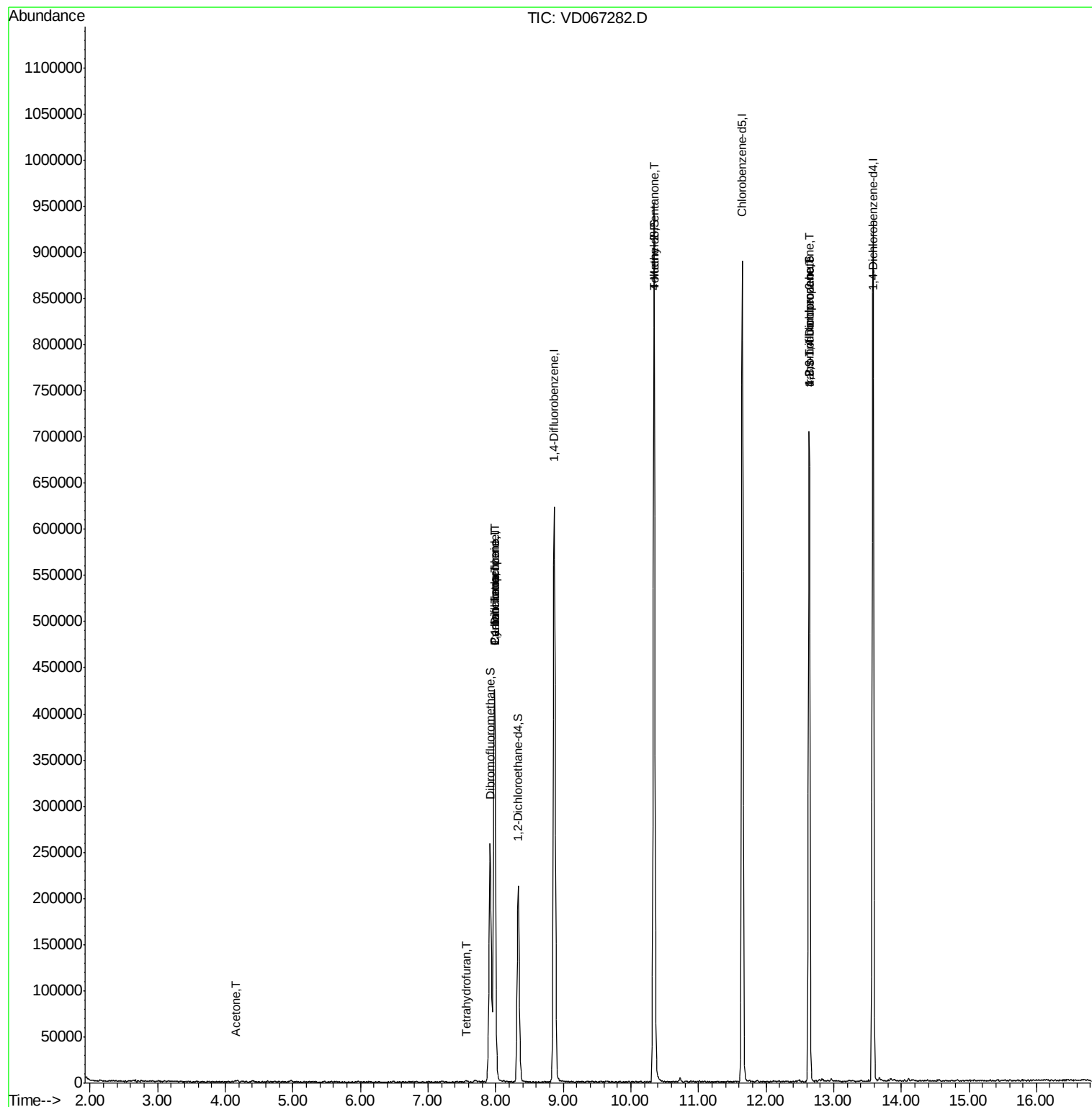
| Target Compounds               | R.T.  | QIon | Response | Conc      | Units  | Qvalue |
|--------------------------------|-------|------|----------|-----------|--------|--------|
| 2) Dichlorodifluoromethane     | 1.99  | 85   | 404      | Below Cal | #      | 44     |
| 5) Bromomethane                | 2.78  | 94   | 70       | Below Cal | #      | 46     |
| 11) Tert butyl alcohol         | 5.24  | 59   | 79       | Below Cal | #      | 81     |
| 16) Acetone                    | 4.16  | 43   | 3107     | 6.777     | ug/l # | 70     |
| 20) Methylene Chloride         | 4.97  | 84   | 668      | Below Cal | #      | 57     |
| 29) Tetrahydrofuran            | 7.57  | 42   | 945      | 3.253     | ug/l   | 99     |
| 31) Cyclohexane                | 7.98  | 56   | 6000     | 1.591     | ug/l # | 17     |
| 36) 1,1-Dichloropropene        | 7.98  | 75   | 23156    | 4.907     | ug/l # | 52     |
| 38) Carbon Tetrachloride       | 7.98  | 117  | 33451    | 5.546     | ug/l # | 17     |
| 51) 4-Methyl-2-Pentanone       | 10.34 | 43   | 2591     | 1.886     | ug/l # | 1      |
| 76) 1,2,3-Trichloropropane     | 12.64 | 75   | 118527   | 65.039    | ug/l # | 100    |
| 81) trans-1,4-Dichloro-2-buten | 12.64 | 75   | 118527   | 147.489   | ug/l # | 10     |

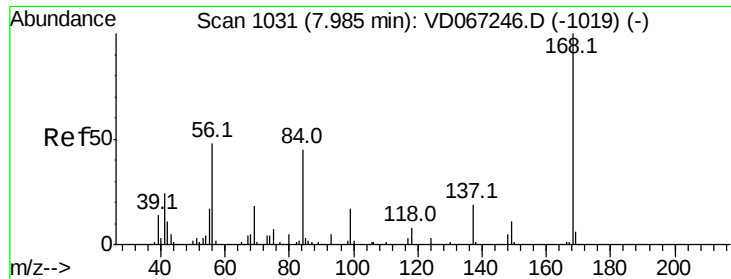
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Oct 16 01:02:21 2020  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_D\METHOD\82D101320S.M  
Quant Title : SW846 8260  
QLast Update : Wed Oct 14 03:30:30 2020  
Response via : Initial Calibration



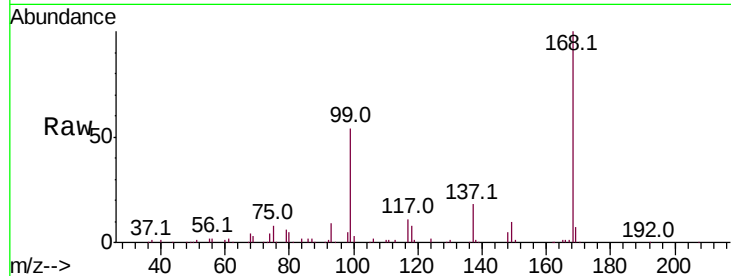


#1

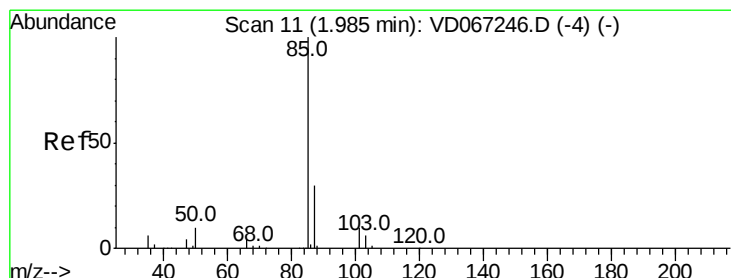
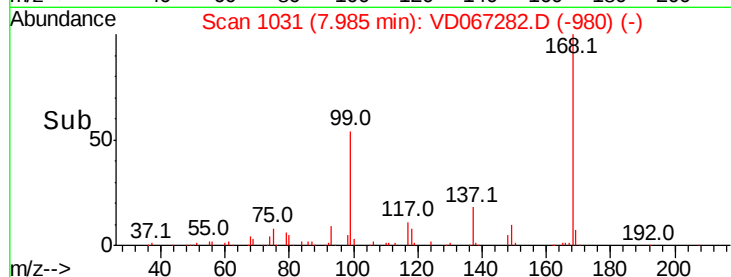
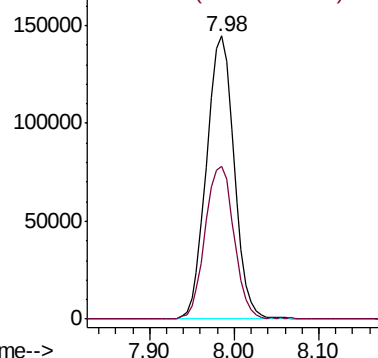
Pentafluorobenzene  
 Concen: 50.000 ug/l  
 RT: 7.98 min Scan# 1031  
 Delta R.T. 0.00 min  
 Lab File: VD067282.D  
 Acq: 15 Oct 2020 14:38

Instrument :  
 MSVOA\_D  
 ClientSampleID :  
 TP-3

Tot Ion:168 Resp: 326765  
 Ion Ratio Lower Upper  
 168 100  
 99 53.9 45.9 68.9



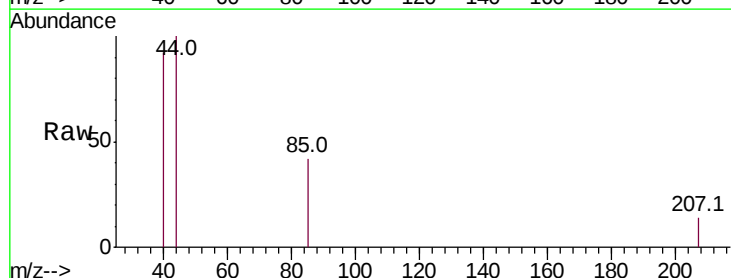
Abundance Ion 167.90 (167.60 to 168.60): V  
 Ion 98.90 (98.60 to 99.60): VDC



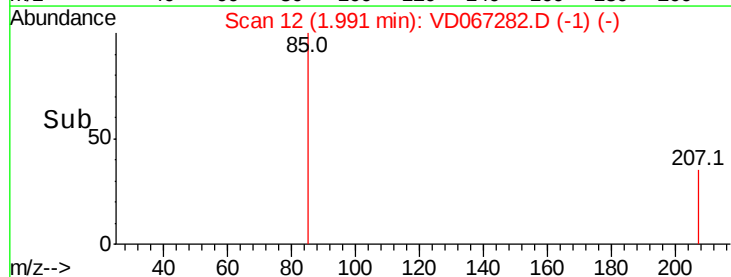
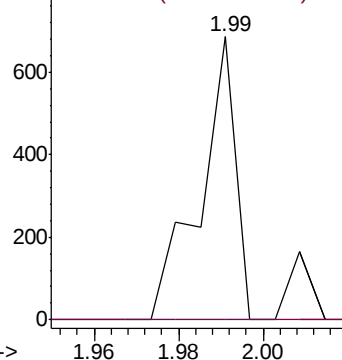
#2

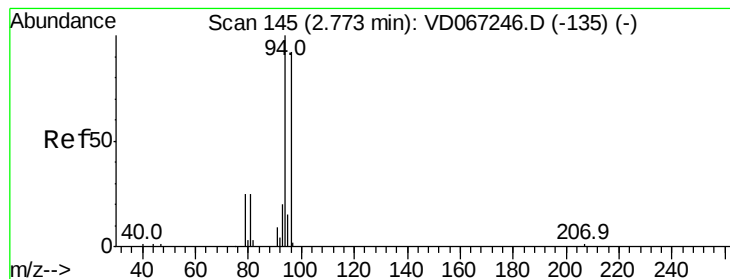
Dichlorodifluoromethane  
 Concen: Below Cal  
 RT: 1.99 min Scan# 12  
 Delta R.T. 0.01 min  
 Lab File: VD067282.D  
 Acq: 15 Oct 2020 14:38

Tgt Ion: 85 Resp: 404  
 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





#5

Bromomethane

Concen: Below Cal

RT: 2.78 min Scan# 146

Delta R.T. 0.01 min

Lab File: VD067282.D

Acq: 15 Oct 2020 14:38

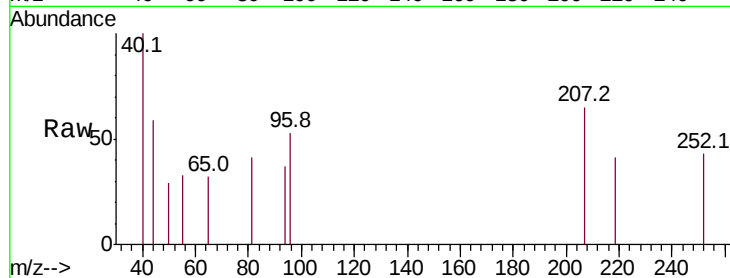
Instrument :  
MSVOA\_D  
ClientSampled :  
TP-3

Tot Ion: 94 Resp: 70

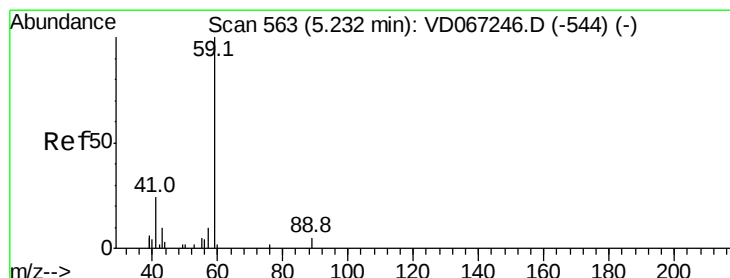
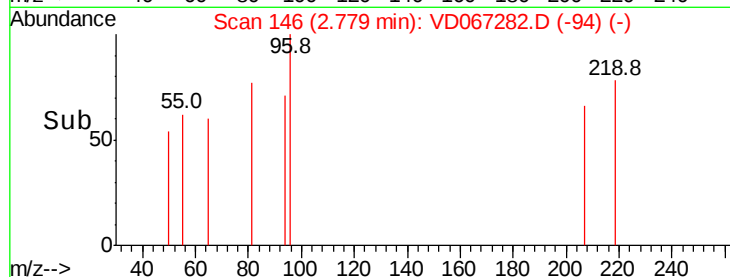
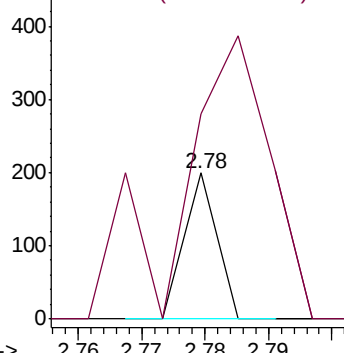
Ion Ratio Lower Upper

94 100

96 40.7 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: 5.24 min Scan# 564

Delta R.T. 0.01 min

Lab File: VD067282.D

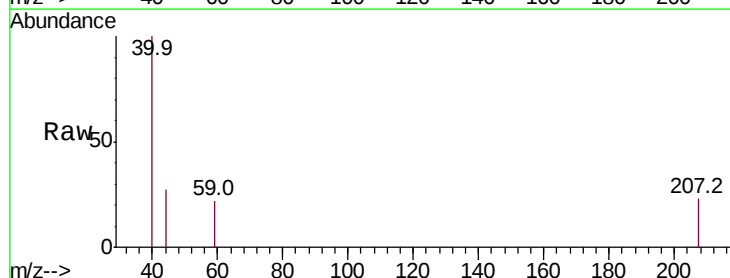
Acq: 15 Oct 2020 14:38

Tgt Ion: 59 Resp: 79

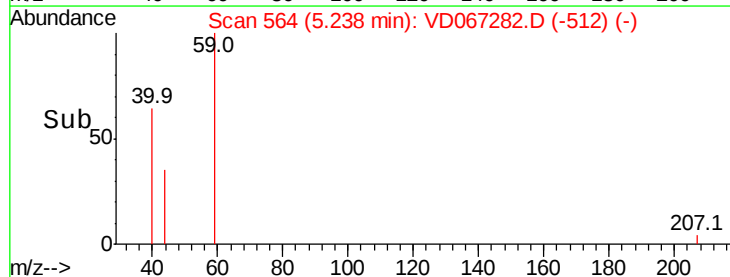
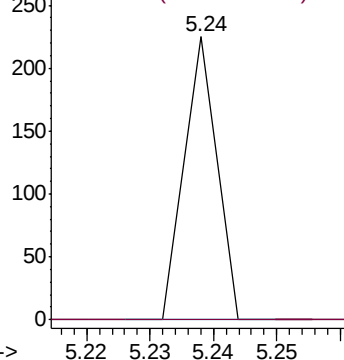
Ion Ratio Lower Upper

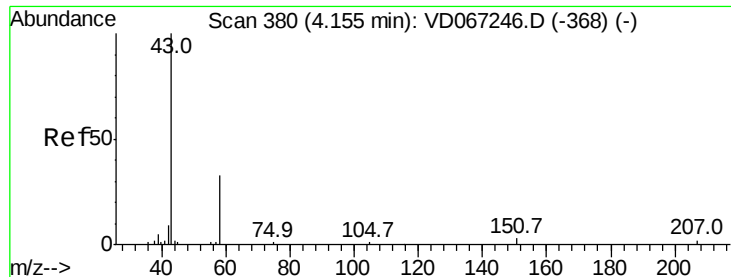
59 100

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: 6.777 ug/l

RT: 4.16 min Scan# 380

Delta R.T. 0.00 min

Lab File: VD067282.D

Acq: 15 Oct 2020 14:38

Instrument :

MSVOA\_D

ClientSampleId :

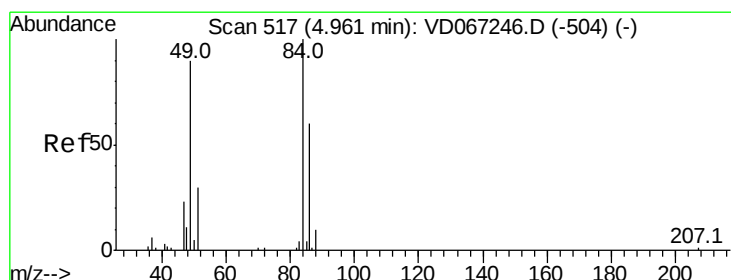
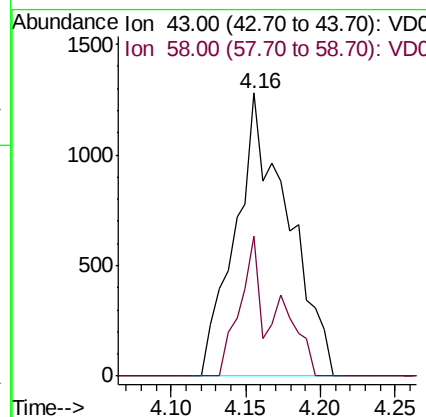
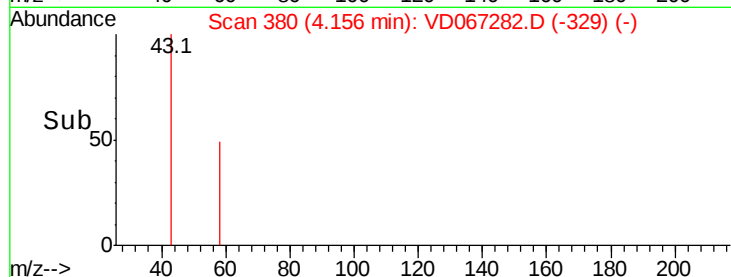
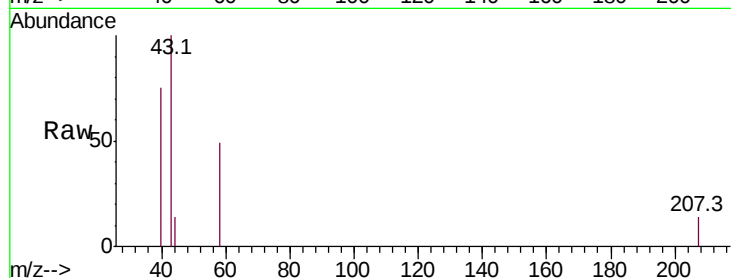
TP-3

Tot Ion: 43 Resp: 3107

Ion Ratio Lower Upper

43 100

58 49.4 26.1 39.1#



#20

Methylene Chloride

Concen: Below Cal

RT: 4.97 min Scan# 519

Delta R.T. 0.01 min

Lab File: VD067282.D

Acq: 15 Oct 2020 14:38

Tgt Ion: 84 Resp: 668

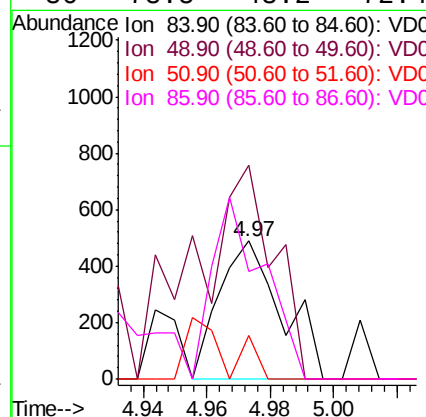
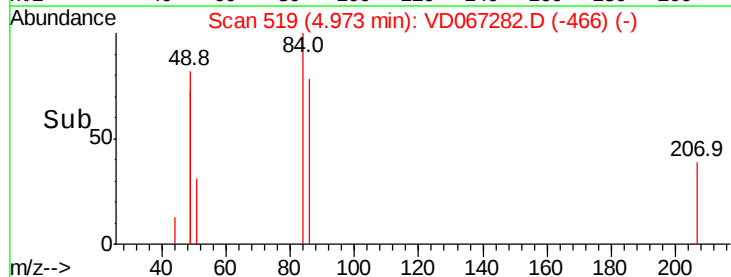
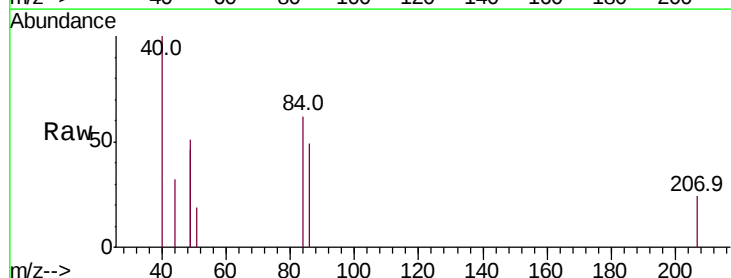
Ion Ratio Lower Upper

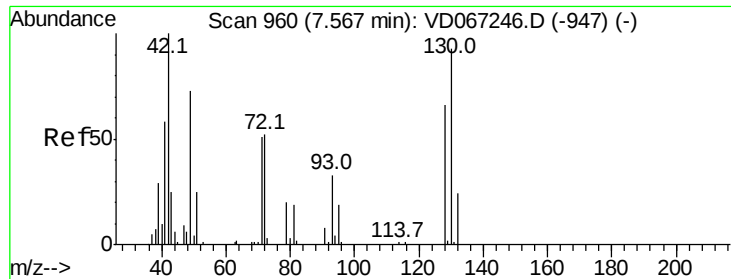
84 100

49 155.1 72.2 108.2#

51 31.1 23.8 35.8

86 78.5 48.2 72.4#

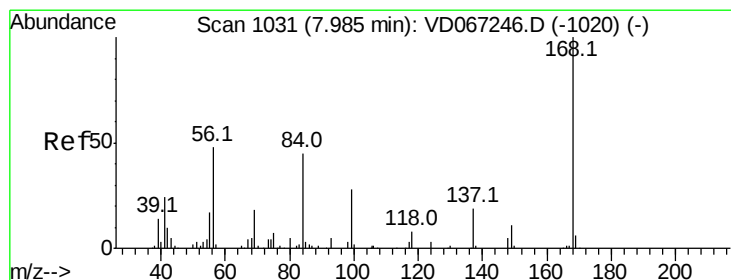
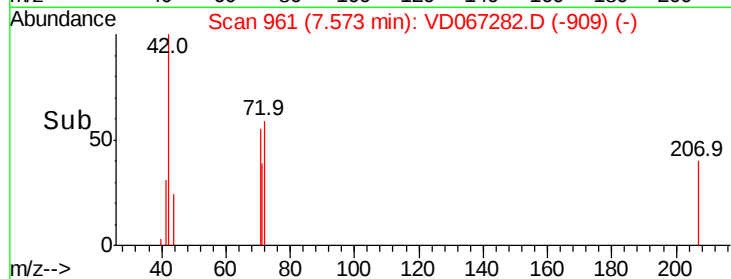
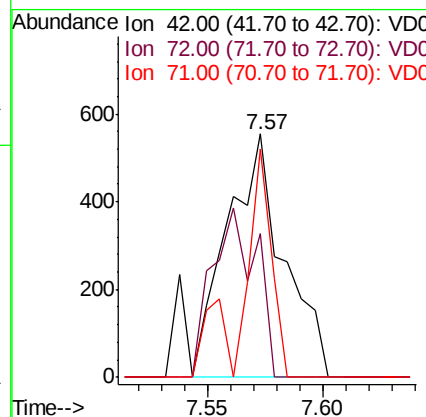
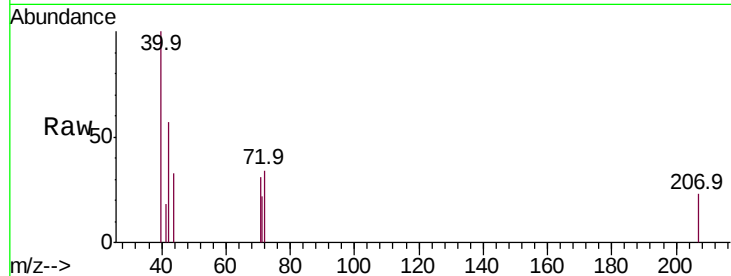




#29  
Tetrahydrofuran  
Concen: 3.253 ug/l  
RT: 7.57 min Scan# 961  
Delta R.T. 0.01 min  
Lab File: VD067282.D  
Acq: 15 Oct 2020 14:38

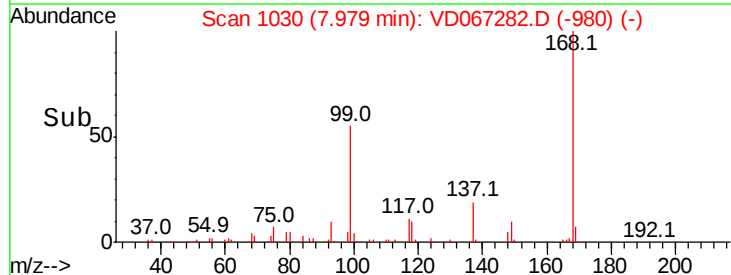
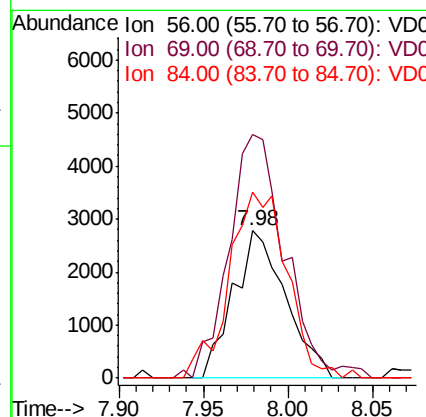
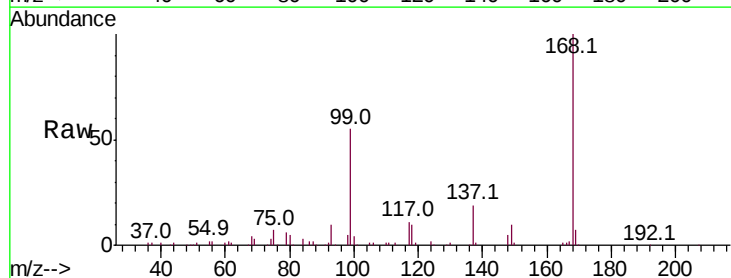
Instrument :  
MSVOA\_D  
ClientSampled :  
TP-3

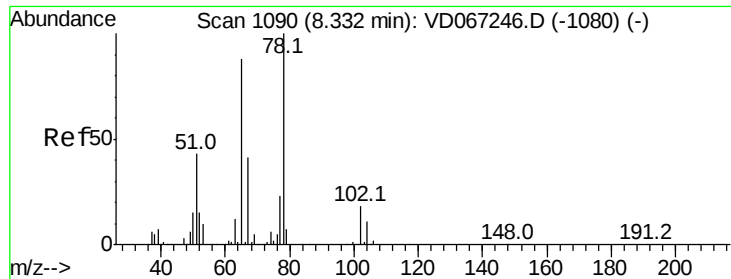
Tot Ion: 42 Resp: 945  
Ion Ratio Lower Upper  
42 100  
72 53.9 43.2 64.8  
71 48.3 39.4 59.0



#31  
Cyclohexane  
Concen: 1.591 ug/l  
RT: 7.98 min Scan# 1030  
Delta R.T. -0.01 min  
Lab File: VD067282.D  
Acq: 15 Oct 2020 14:38

Tgt Ion: 56 Resp: 6000  
Ion Ratio Lower Upper  
56 100  
69 165.6 29.8 44.6#  
84 126.2 76.6 114.8#

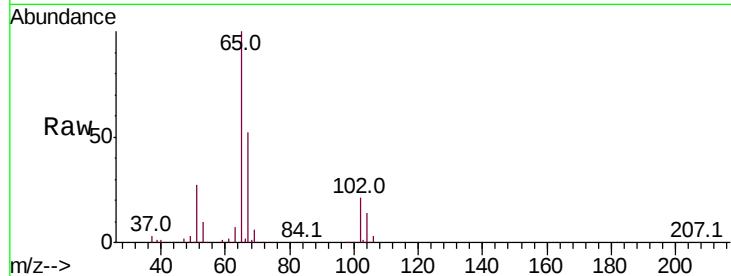




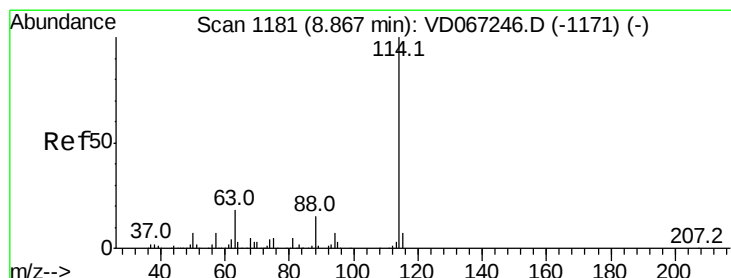
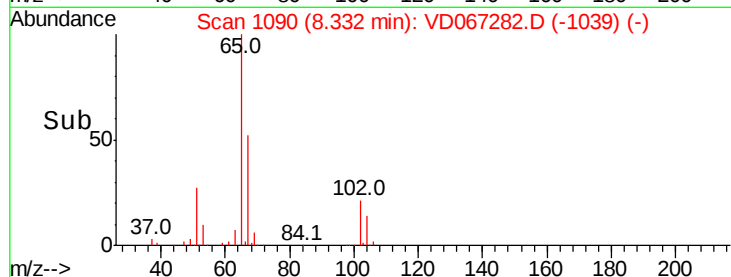
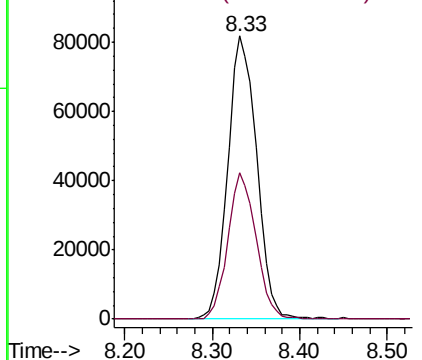
#33  
 1,2-Dichloroethane-d4  
 Concen: 56.210 ug/l  
 RT: 8.33 min Scan# 1090  
 Delta R.T. 0.00 min  
 Lab File: VD067282.D  
 Acq: 15 Oct 2020 14:38

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 TP-3

Tot Ion: 65 Resp: 184013  
 Ion Ratio Lower Upper  
 65 100  
 67 50.4 0.0 103.8

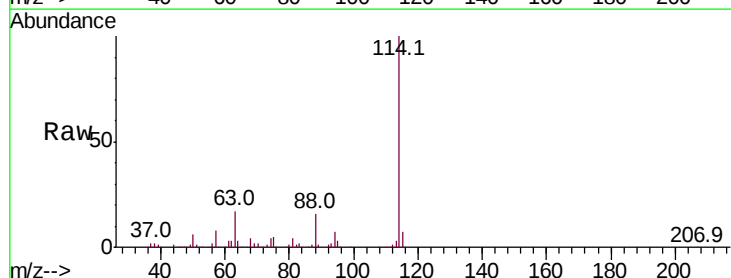


Abundance Ion 64.90 (64.60 to 65.60): VDC  
 Ion 66.90 (66.60 to 67.60): VDC

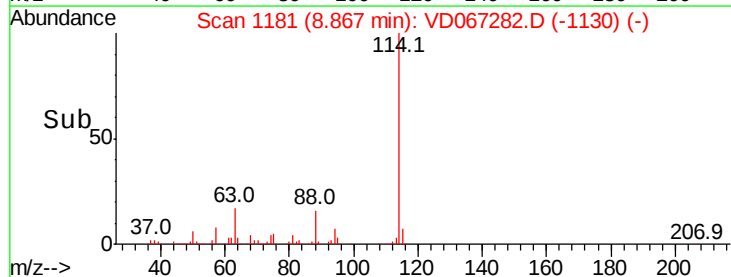
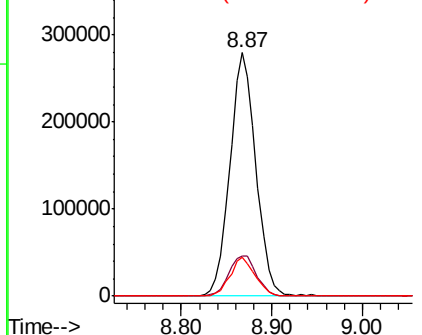


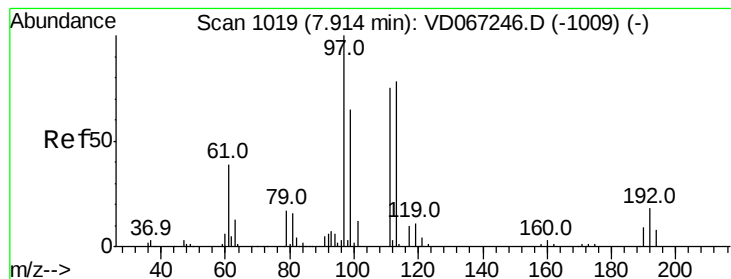
#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.87 min Scan# 1181  
 Delta R.T. 0.00 min  
 Lab File: VD067282.D  
 Acq: 15 Oct 2020 14:38

Tgt Ion: 114 Resp: 556758  
 Ion Ratio Lower Upper  
 114 100  
 63 16.7 0.0 35.0  
 88 16.1 0.0 30.6



Abundance Ion 113.90 (113.60 to 114.60): VDC  
 Ion 63.00 (62.70 to 63.70): VDC  
 Ion 87.90 (87.60 to 88.60): VDC





#35

Dibromofluoromethane

Concen: 49.146 ug/l

RT: 7.92 min Scan# 1020

Delta R.T. 0.01 min

Lab File: VD067282.D

Acq: 15 Oct 2020 14:38

Instrument :

MSVOA\_D

ClientSampleId :

TP-3

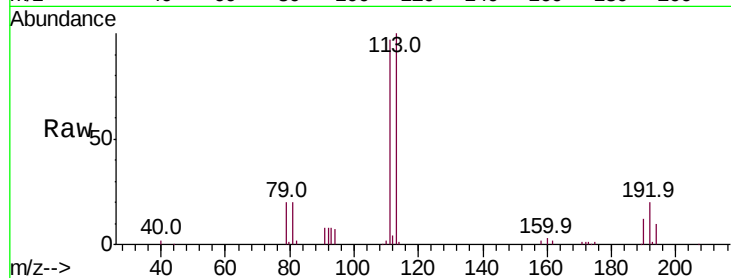
Tot Ion:113 Resp: 182099

Ion Ratio Lower Upper

113 100

111 101.4 81.6 122.4

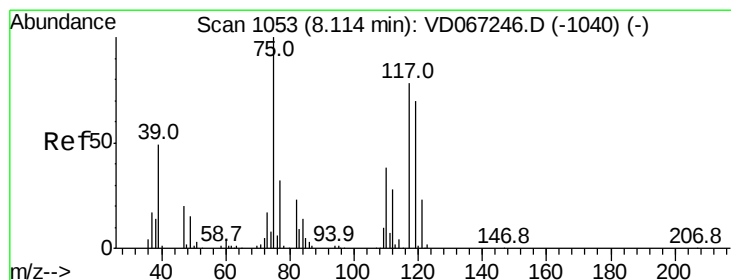
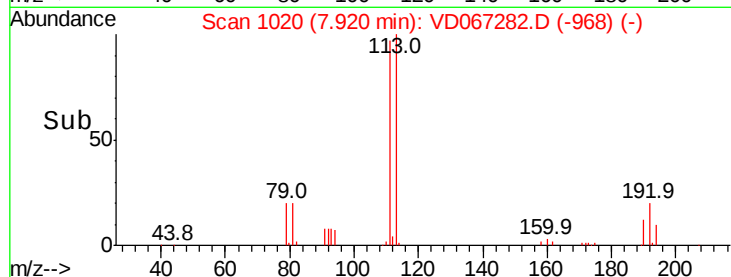
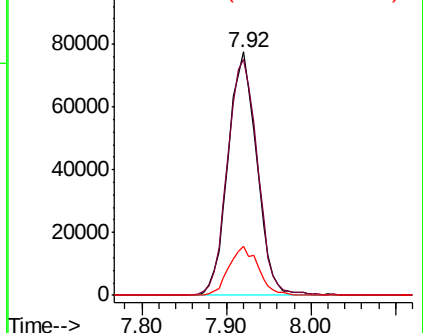
192 20.5 17.0 25.4



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: 4.907 ug/l

RT: 7.98 min Scan# 1031

Delta R.T. -0.13 min

Lab File: VD067282.D

Acq: 15 Oct 2020 14:38

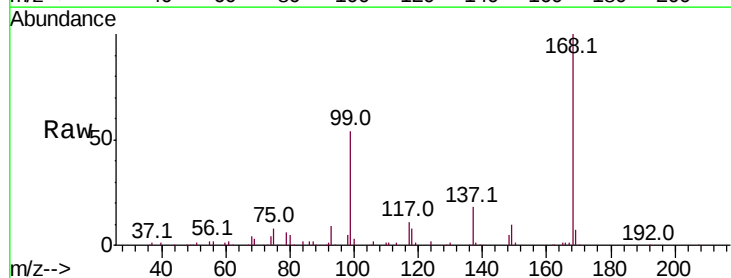
Tgt Ion: 75 Resp: 23156

Ion Ratio Lower Upper

75 100

110 13.4 19.6 58.7#

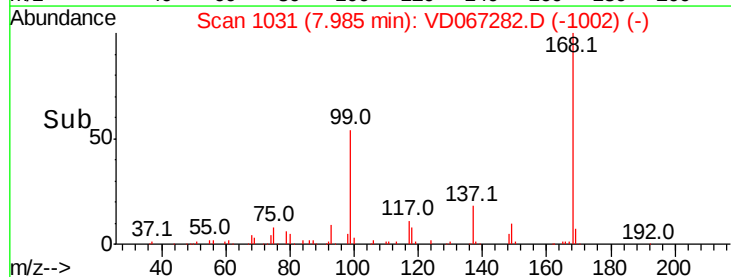
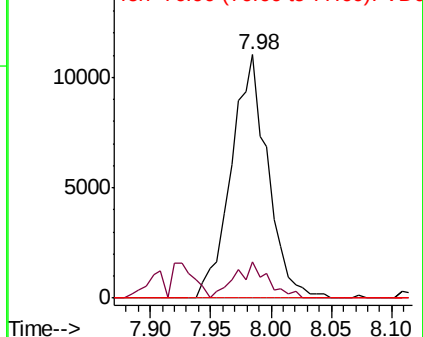
77 0.0 24.6 37.0#

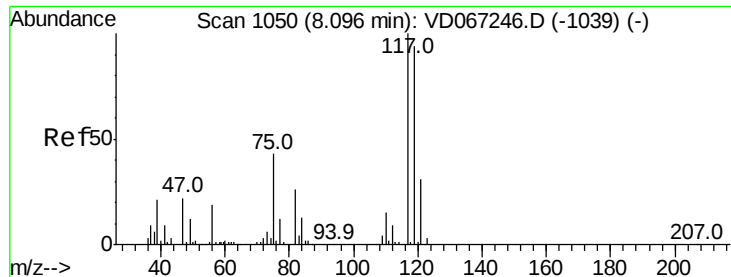


Abundance Ion 74.90 (74.60 to 75.60): V

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): V

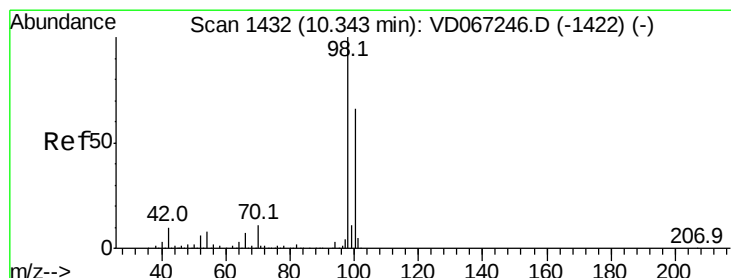
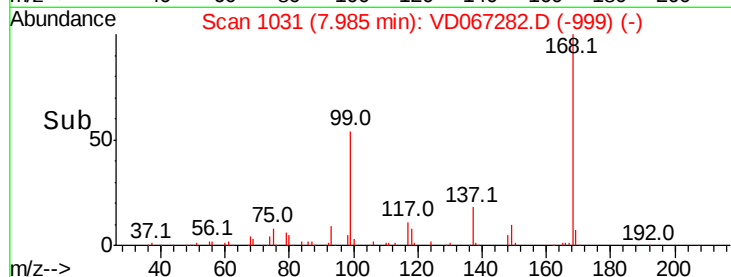
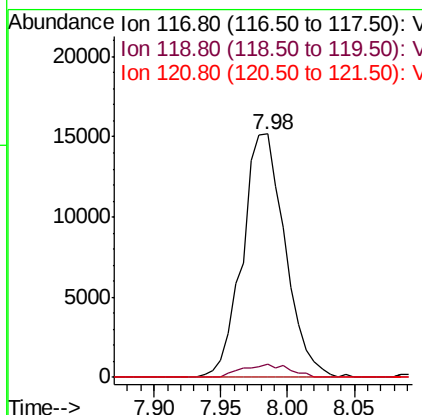
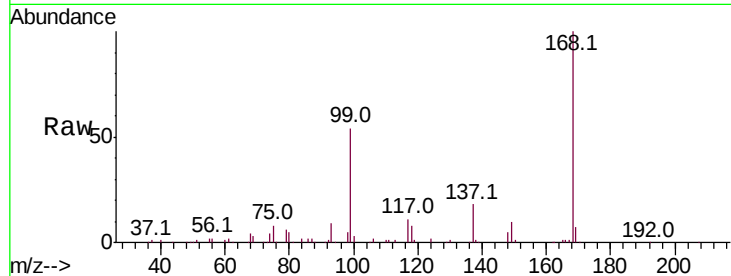




#38  
Carbon Tetrachloride  
Concen: 5.546 ug/l  
RT: 7.98 min Scan# 1031  
Delta R.T. -0.11 min  
Lab File: VD067282.D  
Acq: 15 Oct 2020 14:38

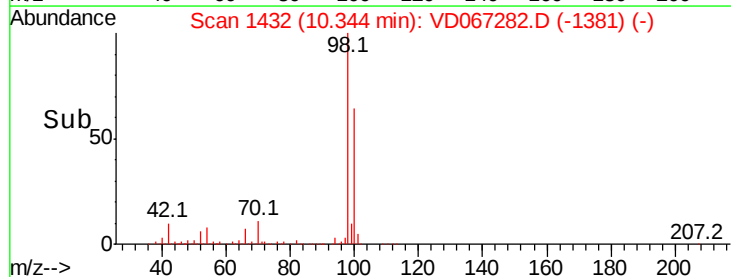
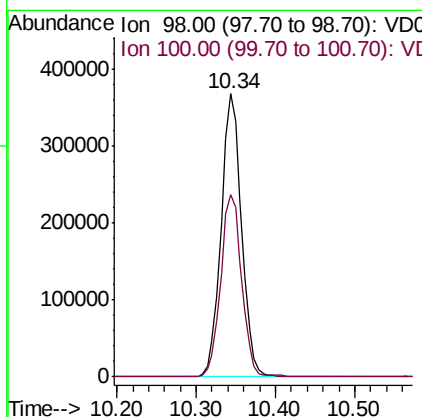
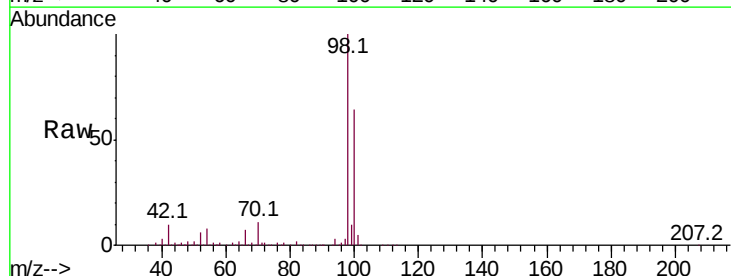
Instrument :  
MSVOA\_D  
ClientSampleId :  
TP-3

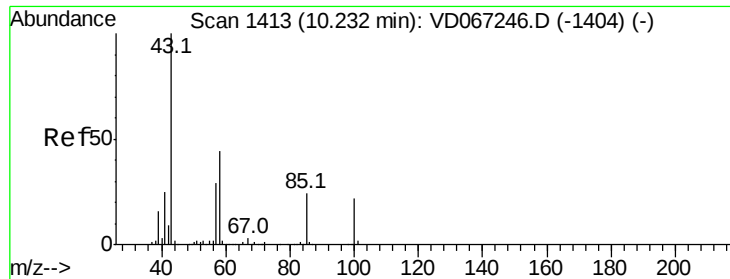
Tot Ion:117 Resp: 33451  
Ion Ratio Lower Upper  
117 100  
119 5.2 75.0 112.4#  
121 0.0 24.9 37.3#



#50  
Toluene-d8  
Concen: 48.749 ug/l  
RT: 10.34 min Scan# 1432  
Delta R.T. 0.00 min  
Lab File: VD067282.D  
Acq: 15 Oct 2020 14:38

Tgt Ion: 98 Resp: 653675  
Ion Ratio Lower Upper  
98 100  
100 66.2 53.1 79.7

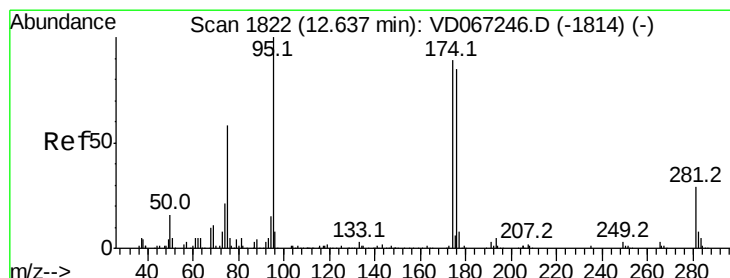
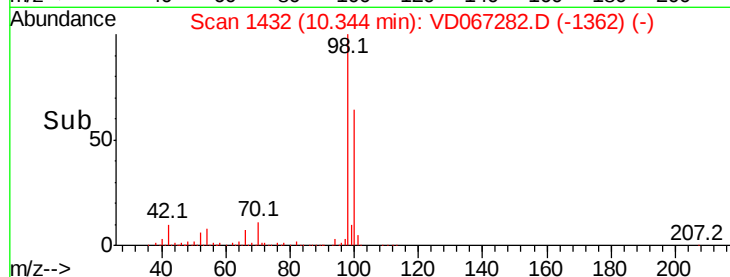
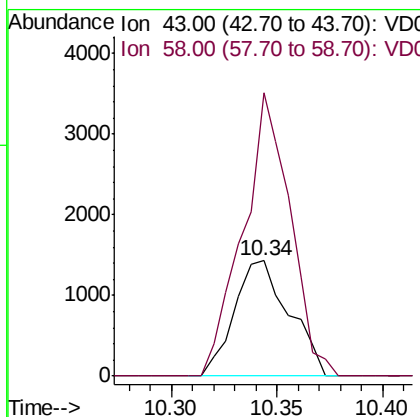
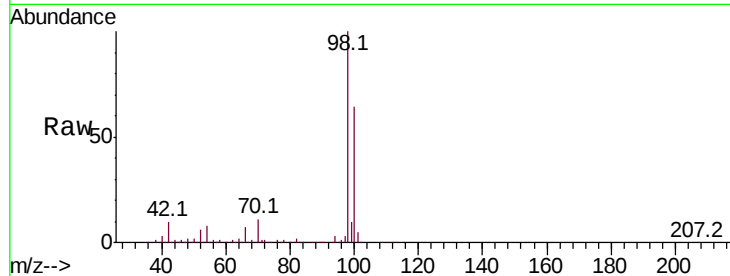




#51  
4-Methyl-2-Pentanone  
Concen: 1.886 ug/l  
RT: 10.34 min Scan# 1432  
Delta R.T. 0.11 min  
Lab File: VD067282.D  
Acq: 15 Oct 2020 14:38

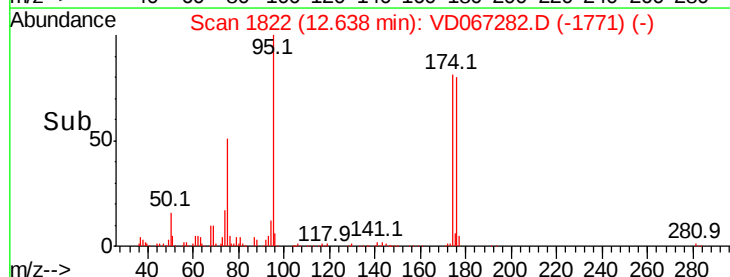
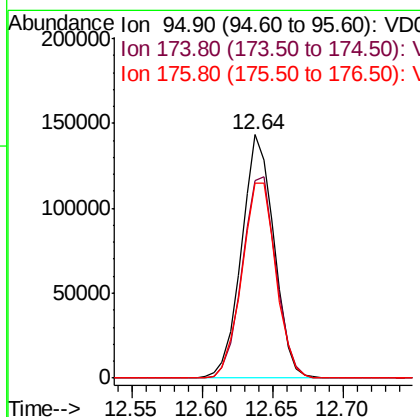
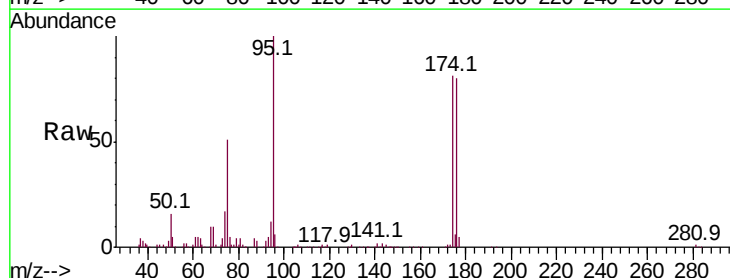
Instrument :  
MSVOA\_D  
ClientSampleId :  
TP-3

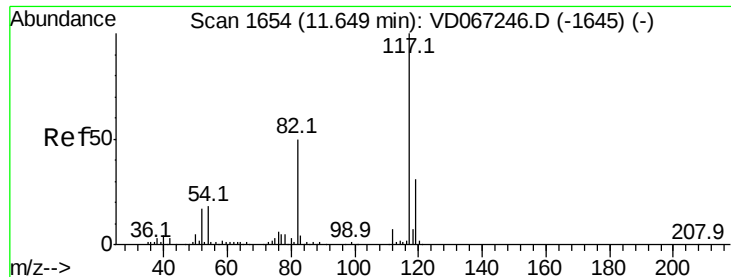
Tot Ion: 43 Resp: 2591  
Ion Ratio Lower Upper  
43 100  
58 211.1 35.7 53.5#



#62  
4-Bromofluorobenzene  
Concen: 49.690 ug/l  
RT: 12.64 min Scan# 1822  
Delta R.T. 0.00 min  
Lab File: VD067282.D  
Acq: 15 Oct 2020 14:38

Tgt Ion: 95 Resp: 231685  
Ion Ratio Lower Upper  
95 100  
174 85.8 0.0 175.2  
176 83.9 0.0 168.6

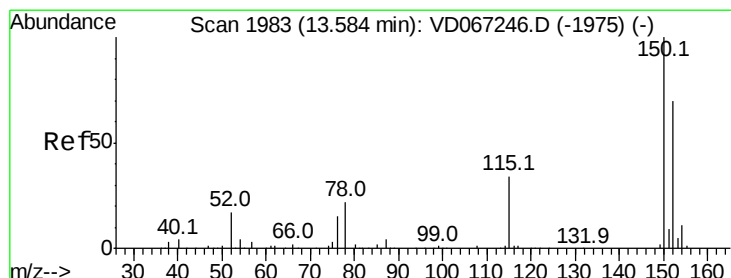
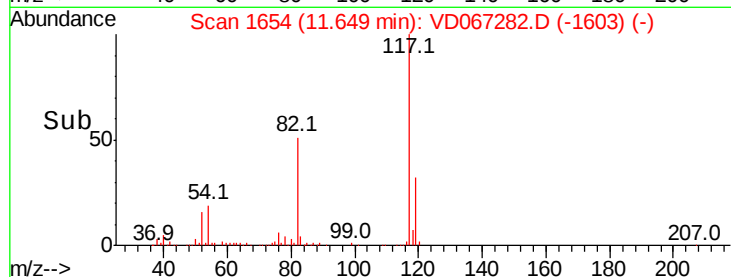
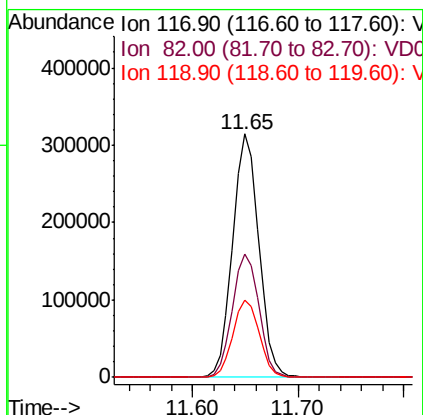
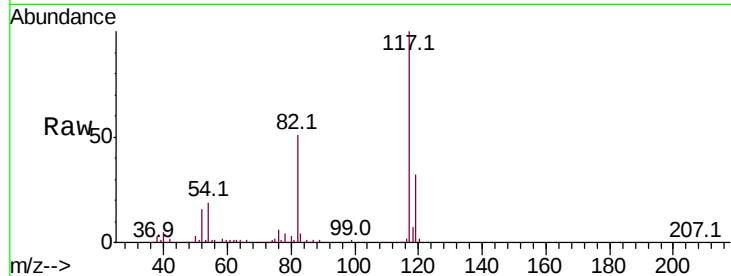




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.65 min Scan# 1654  
Delta R.T. 0.00 min  
Lab File: VD067282.D  
Acq: 15 Oct 2020 14:38

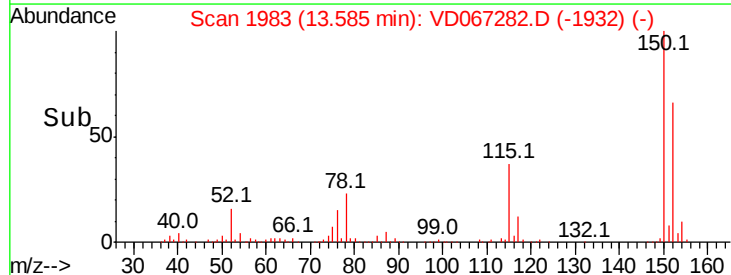
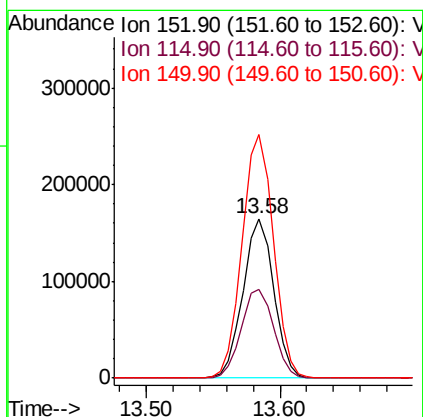
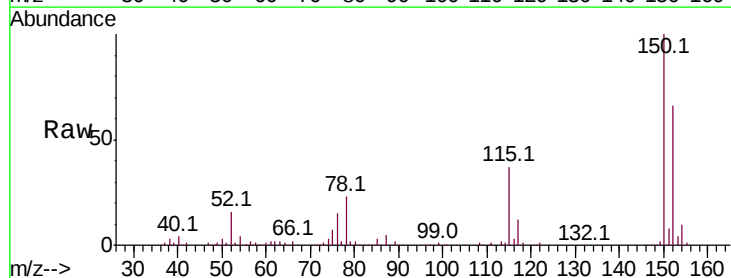
Instrument :  
MSVOA\_D  
ClientSampleId :  
TP-3

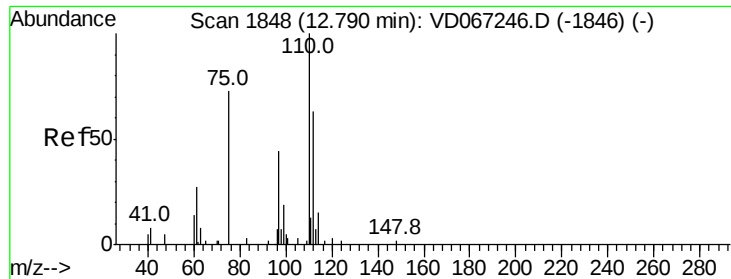
Tot Ion:117 Resp: 536516  
Ion Ratio Lower Upper  
117 100  
82 50.6 39.9 59.9  
119 31.5 24.9 37.3



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.58 min Scan# 1983  
Delta R.T. 0.00 min  
Lab File: VD067282.D  
Acq: 15 Oct 2020 14:38

Tgt Ion:152 Resp: 262936  
Ion Ratio Lower Upper  
152 100  
115 58.7 29.3 87.9  
150 155.7 0.0 339.0





#76

1,2,3-Trichloropropane

Concen: 65.039 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. -0.15 min

Lab File: VD067282.D

Acq: 15 Oct 2020 14:38

Instrument :

MSVOA\_D

ClientSampleId :

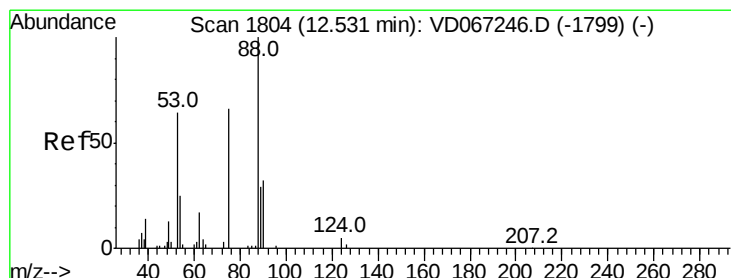
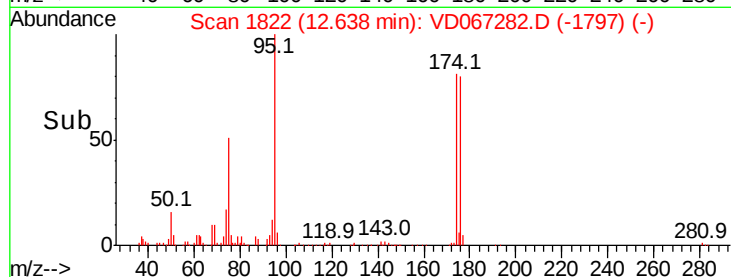
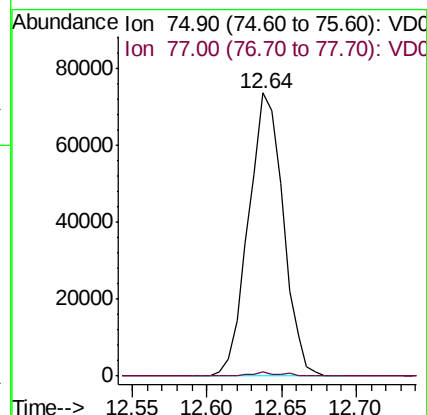
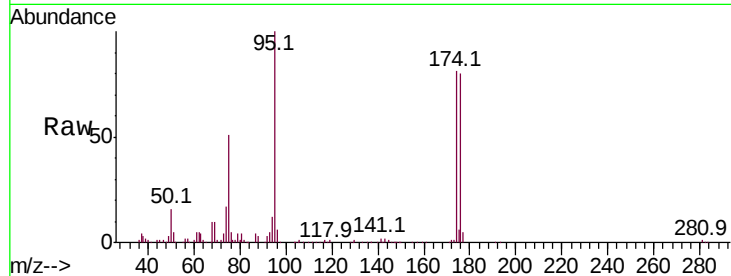
TP-3

Tot Ion: 75 Resp: 118527

Ion Ratio Lower Upper

75 100

77 1.4 0.0 0.0#



#81

trans-1,4-Dichloro-2-butene

Concen: 147.489 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. 0.11 min

Lab File: VD067282.D

Acq: 15 Oct 2020 14:38

Tgt Ion: 75 Resp: 118527

Ion Ratio Lower Upper

75 100

53 0.0 78.5 117.7#

89 0.0 39.9 59.9#

