

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_D\DATA\VD051419\  
 Data File : VD062346.D  
 Acq On : 14 May 2019 15:07  
 Operator : FY/SY  
 Sample : K2647-05RE  
 Misc : 7.15g/5mL/MSVOA\_D/SOIL  
 ALS Vial : 9 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 SU-02-050919-A

Quant Time: May 14 15:30:14 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D050719S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue May 07 14:26:29 2019  
 Response via : Initial Calibration

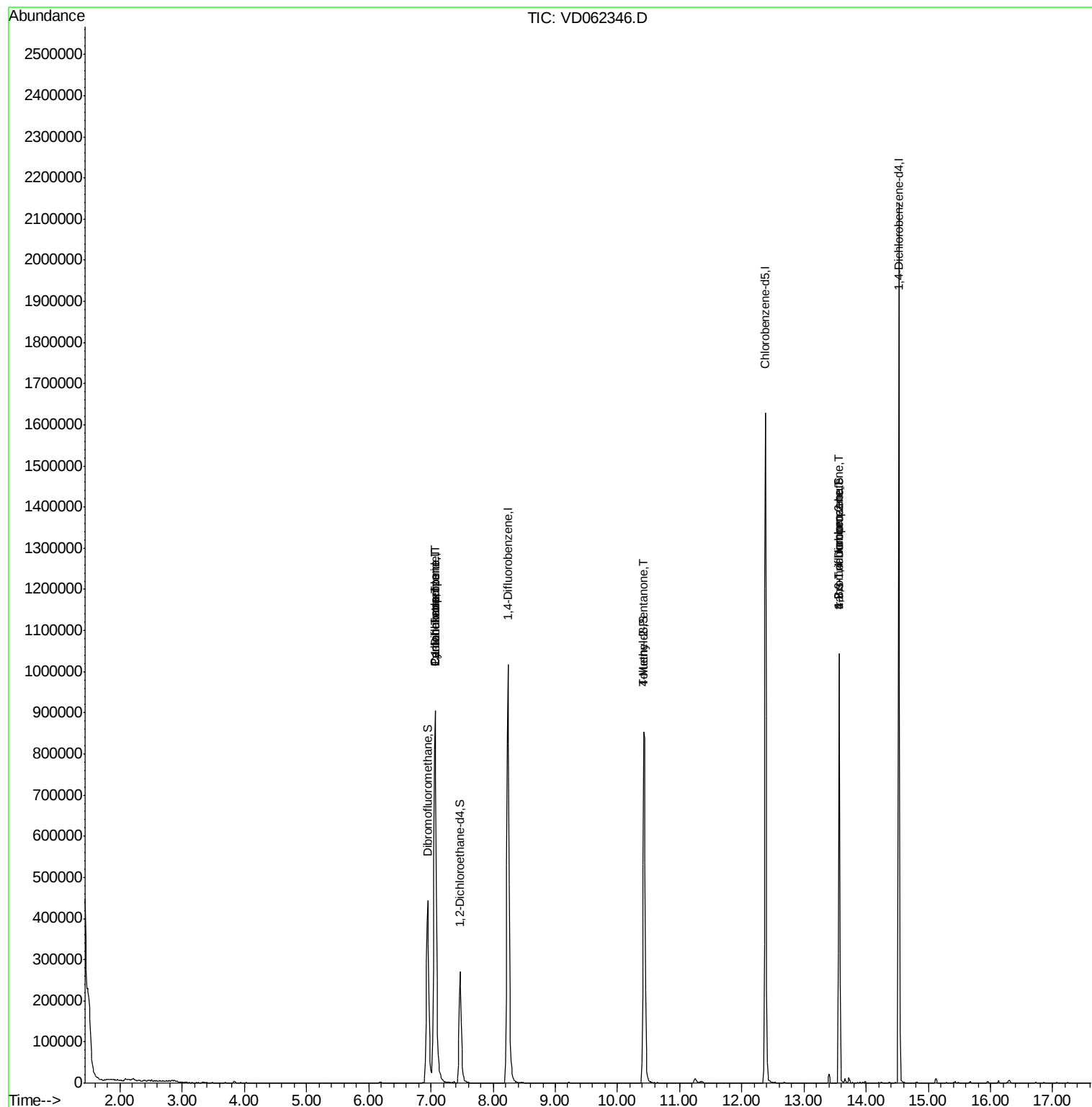
| Internal Standards             | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|--------|--------|----------|
| 1) Pentafluorobenzene          | 7.07  | 168  | 863573   | 50.00  | ug/l   | 0.05     |
| 34) 1,4-Difluorobenzene        | 8.24  | 114  | 1107759  | 50.00  | ug/l   | 0.05     |
| 63) Chlorobenzene-d5           | 12.38 | 117  | 838709   | 50.00  | ug/l   | 0.03     |
| 72) 1,4-Dichlorobenzene-d4     | 14.53 | 152  | 426130   | 50.00  | ug/l   | 0.02     |
| System Monitoring Compounds    |       |      |          |        |        |          |
| 33) 1,2-Dichloroethane-d4      | 7.47  | 65   | 300103   | 37.39  | ug/l   | 0.05     |
| Spiked Amount 50.000           |       |      | Recovery | =      | 74.78% |          |
| 35) Dibromofluoromethane       | 6.95  | 113  | 391102   | 42.55  | ug/l   | 0.06     |
| Spiked Amount 50.000           |       |      | Recovery | =      | 85.10% |          |
| 50) Toluene-d8                 | 10.42 | 98   | 736958   | 33.26  | ug/l   | 0.03     |
| Spiked Amount 50.000           |       |      | Recovery | =      | 66.52% |          |
| 62) 4-Bromofluorobenzene       | 13.56 | 95   | 312534   | 35.12  | ug/l   | 0.02     |
| Spiked Amount 50.000           |       |      | Recovery | =      | 70.24% |          |
| Target Compounds               |       |      |          |        |        |          |
|                                |       |      |          |        | Qvalue |          |
| 31) Cyclohexane                | 7.07  | 56   | 19799    | 2.351  | ug/l # | 10       |
| 36) 1,1-Dichloropropene        | 7.07  | 75   | 74104    | 8.159  | ug/l # | 47       |
| 38) Carbon Tetrachloride       | 7.07  | 117  | 90831    | 7.225  | ug/l # | 16       |
| 51) 4-Methyl-2-Pentanone       | 10.42 | 43   | 4430     | 1.262  | ug/l # | 1        |
| 76) 1,2,3-Trichloropropane     | 13.56 | 75   | 133633   | 26.388 | ug/l # | 43       |
| 81) trans-1,4-Dichloro-2-buten | 13.56 | 75   | 135508   | 94.784 | ug/l # | 16       |

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

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA\_D\DATA\VD051419\  
Data File : VD062346.D  
Acq On : 14 May 2019 15:07  
Operator : FY/SY  
Sample : K2647-05RE  
Misc : 7.15g/5mL/MSVOA\_D/SOIL  
ALS Vial : 9 Sample Multiplier: 1

Instrument :  
MSVOA\_D  
ClientSampleId :  
SU-02-050919-A

Quant Time: May 14 15:30:14 2019  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_D\METHOD\82D050719S.M  
Quant Title : SW846 8260  
QLast Update : Tue May 07 14:26:29 2019  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.07 min Scan# 573

Delta R.T. 0.05 min

Lab File: VD062346.D

Acq: 14 May 2019 15:07

Instrument :

MSVOA\_D

ClientSampleId :

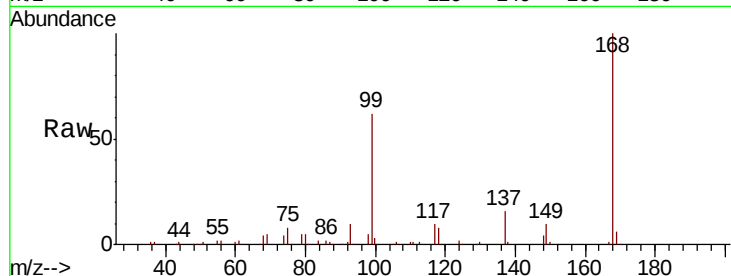
SU-02-050919-A

Tgt Ion:168 Resp: 863573

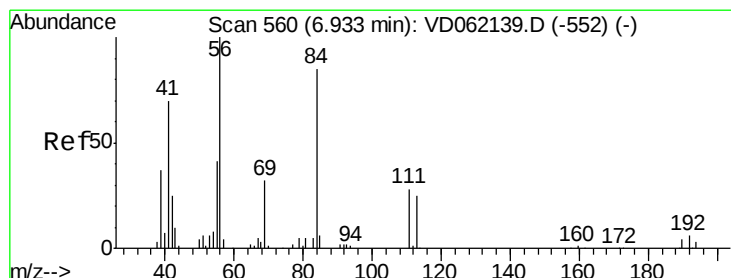
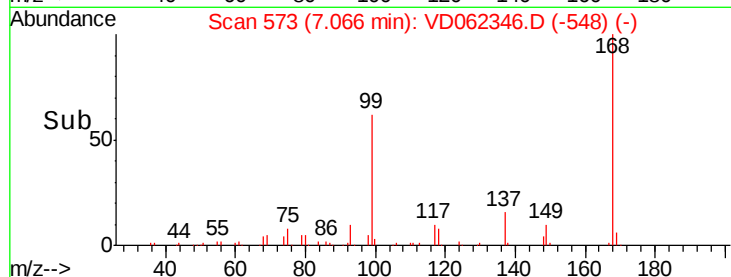
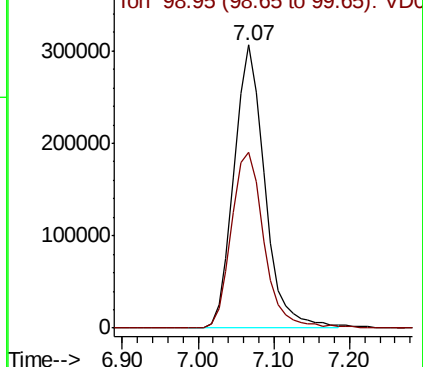
Ion Ratio Lower Upper

168 100

99 62.0 46.5 69.7



Abundance Ion 167.90 (167.60 to 168.60): V



#31

Cyclohexane

Concen: 2.351 ug/l

RT: 7.07 min Scan# 573

Delta R.T. 0.13 min

Lab File: VD062346.D

Acq: 14 May 2019 15:07

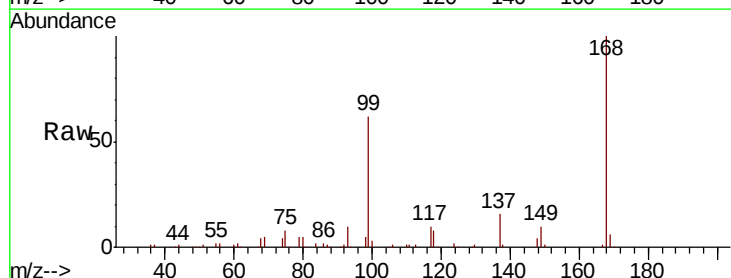
Tgt Ion: 56 Resp: 19799

Ion Ratio Lower Upper

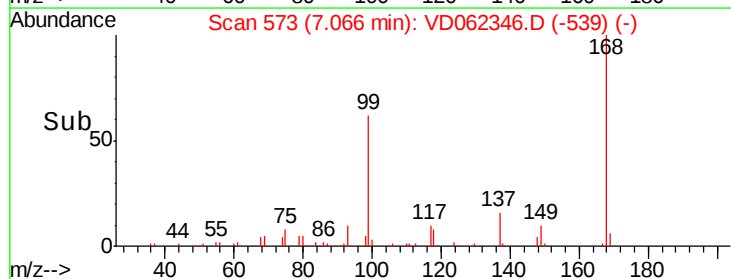
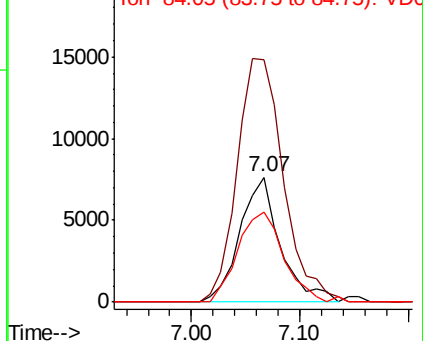
56 100

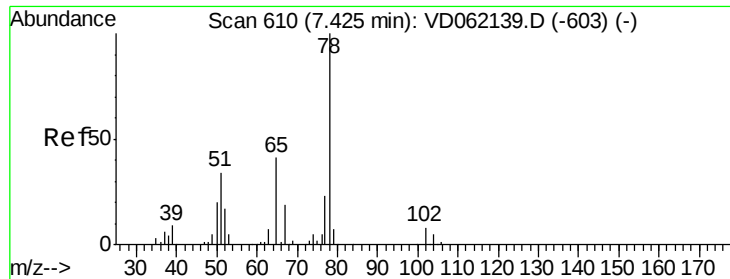
69 193.4 25.8 38.6#

84 72.2 72.2 108.4#



Abundance Ion 55.95 (55.65 to 56.65): V

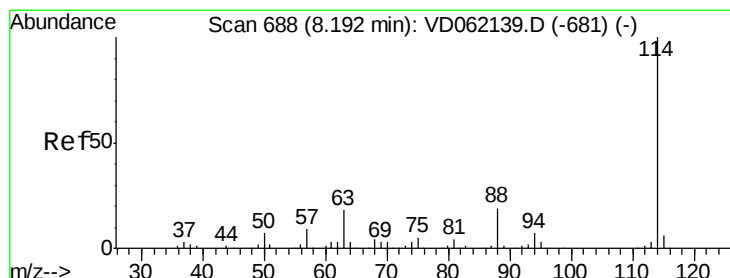
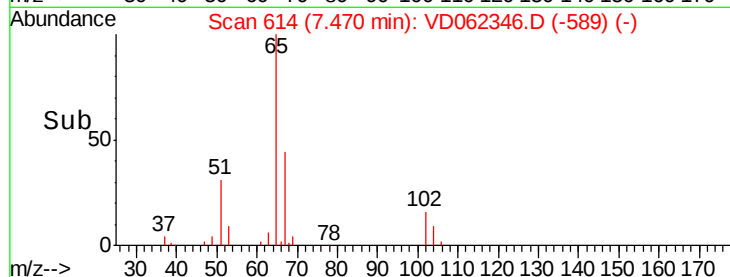
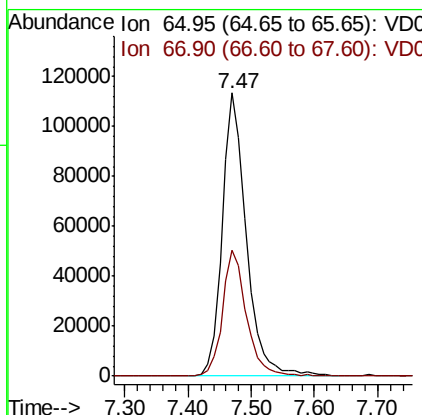
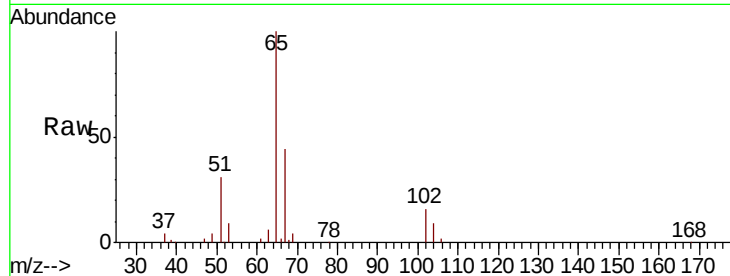




#33  
 1,2-Dichloroethane-d4  
 Concen: 37.395 ug/l  
 RT: 7.47 min Scan# 614  
 Delta R.T. 0.05 min  
 Lab File: VD062346.D  
 Acq: 14 May 2019 15:07

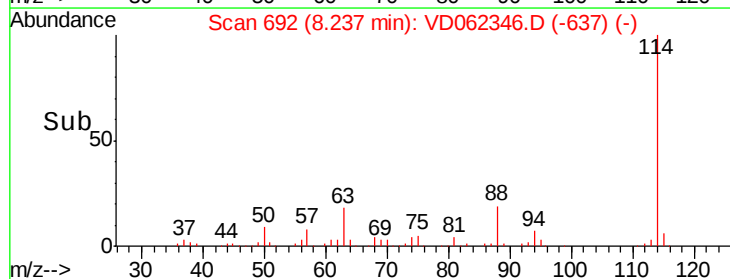
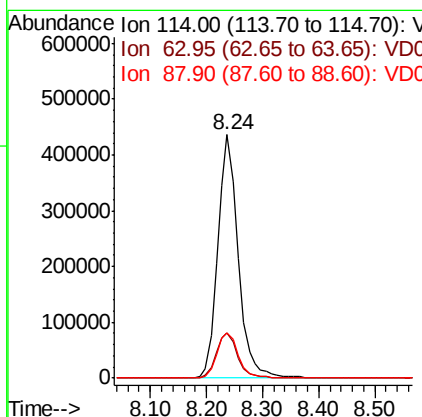
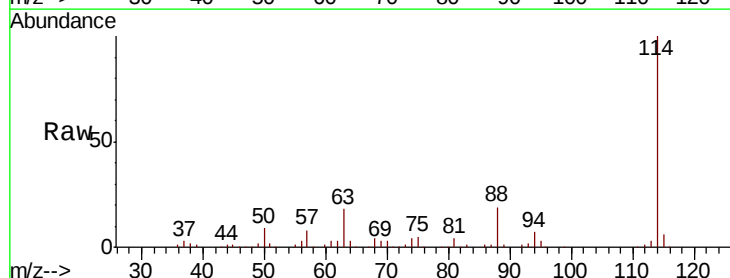
Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 SU-02-050919-A

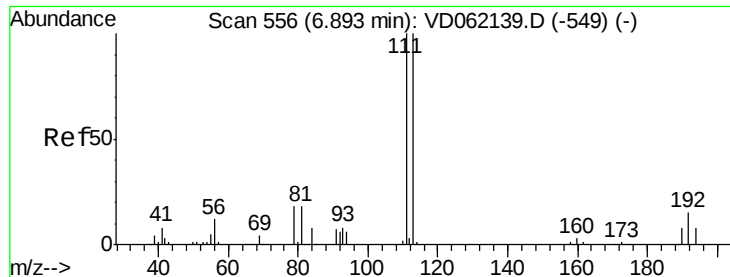
Tgt Ion: 65 Resp: 300103  
 Ion Ratio Lower Upper  
 65 100  
 67 44.3 0.0 98.0



#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.24 min Scan# 692  
 Delta R.T. 0.05 min  
 Lab File: VD062346.D  
 Acq: 14 May 2019 15:07

Tgt Ion: 114 Resp: 1107759  
 Ion Ratio Lower Upper  
 114 100  
 63 18.4 0.0 32.4  
 88 18.7 0.0 33.6

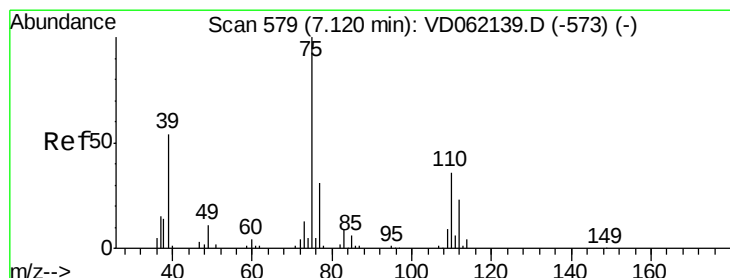
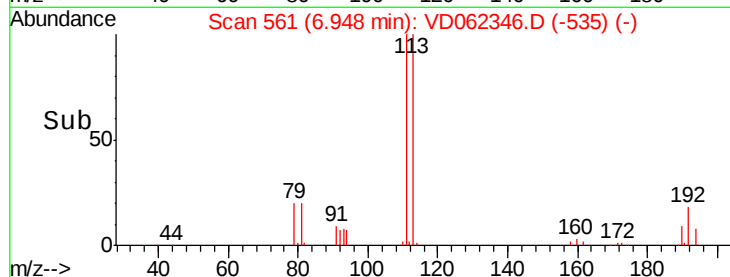
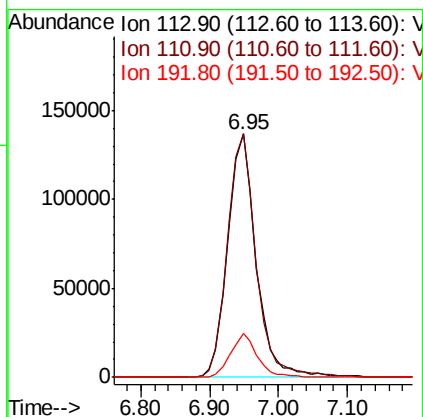
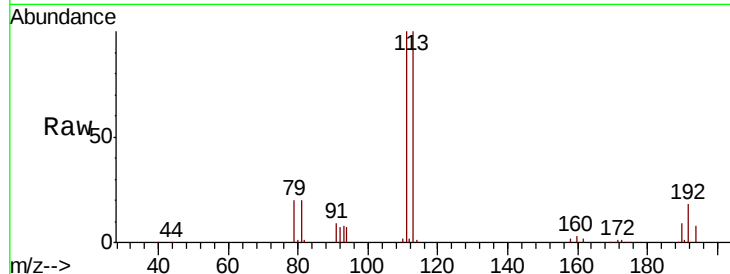




#35  
 Dibromofluoromethane  
 Concen: 42.552 ug/l  
 RT: 6.95 min Scan# 561  
 Delta R.T. 0.06 min  
 Lab File: VD062346.D  
 Acq: 14 May 2019 15:07

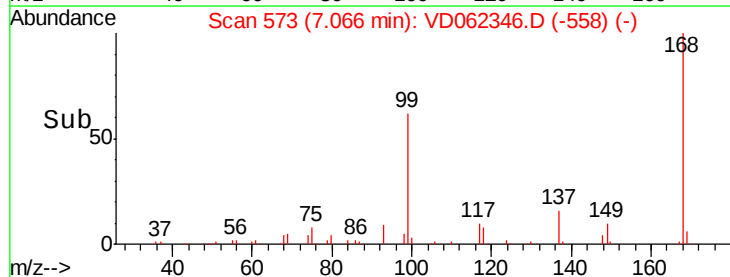
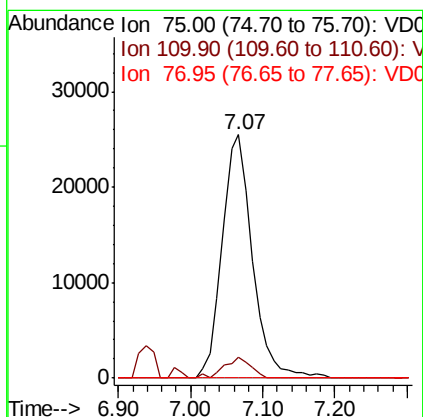
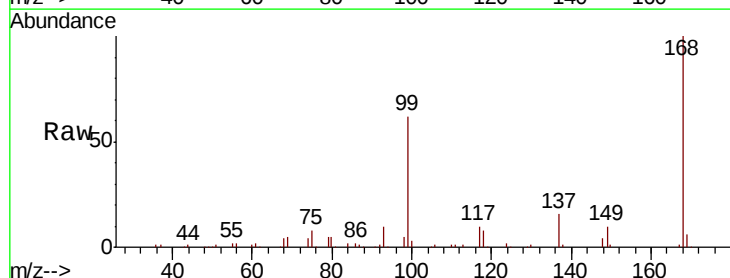
Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 SU-02-050919-A

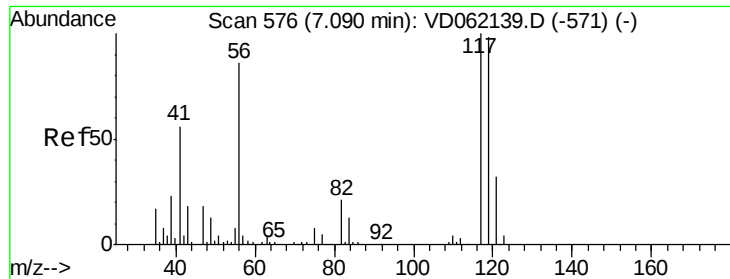
Tgt Ion:113 Resp: 391102  
 Ion Ratio Lower Upper  
 113 100  
 111 99.8 78.5 117.7  
 192 18.0 13.0 19.4



#36  
 1,1-Dichloropropene  
 Concen: 8.159 ug/l  
 RT: 7.07 min Scan# 573  
 Delta R.T. -0.05 min  
 Lab File: VD062346.D  
 Acq: 14 May 2019 15:07

Tgt Ion: 75 Resp: 74104  
 Ion Ratio Lower Upper  
 75 100  
 110 8.7 19.1 57.1#  
 77 0.0 25.6 38.4#





#38

Carbon Tetrachloride

Concen: 7.225 ug/l

RT: 7.07 min Scan# 573

Delta R.T. -0.02 min

Lab File: VD062346.D

Acq: 14 May 2019 15:07

Instrument :

MSVOA\_D

ClientSampleId :

SU-02-050919-A

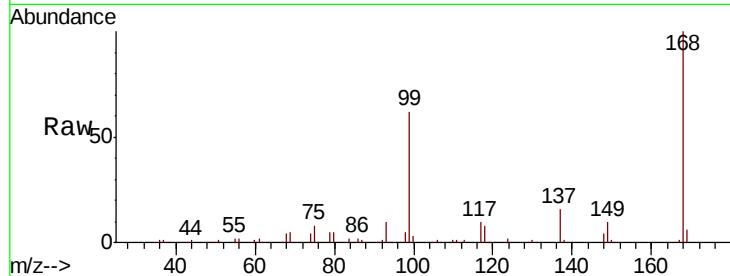
Tgt Ion:117 Resp: 90831

Ion Ratio Lower Upper

117 100

119 4.5 75.8 113.8#

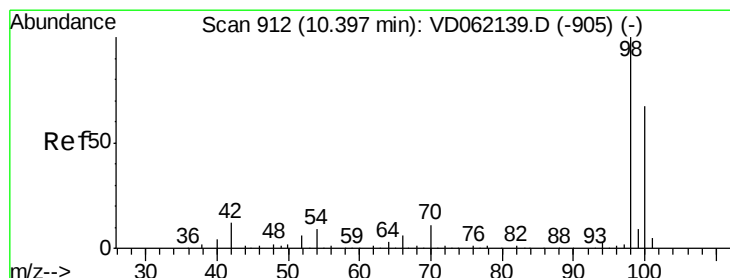
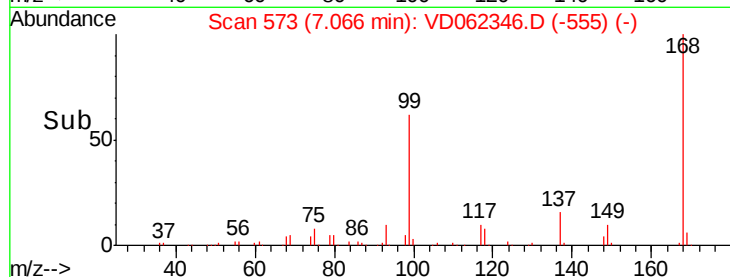
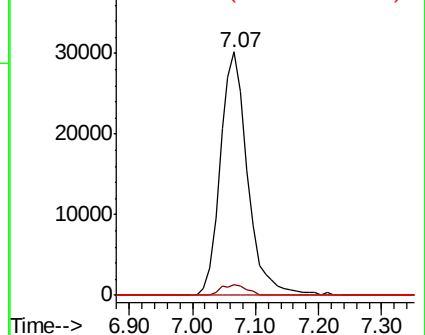
121 0.0 25.9 38.9#



Abundance Ion 116.85 (116.55 to 117.55): V

Ion 118.85 (118.55 to 119.55): V

Ion 120.85 (120.55 to 121.55): V



#50

Toluene-d8

Concen: 33.255 ug/l

RT: 10.42 min Scan# 914

Delta R.T. 0.03 min

Lab File: VD062346.D

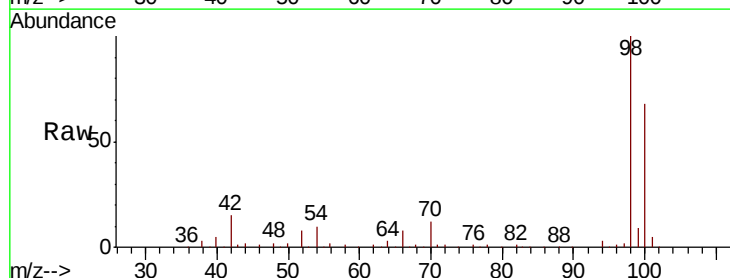
Acq: 14 May 2019 15:07

Tgt Ion: 98 Resp: 736958

Ion Ratio Lower Upper

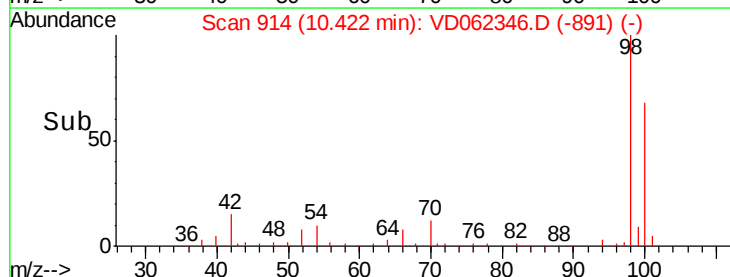
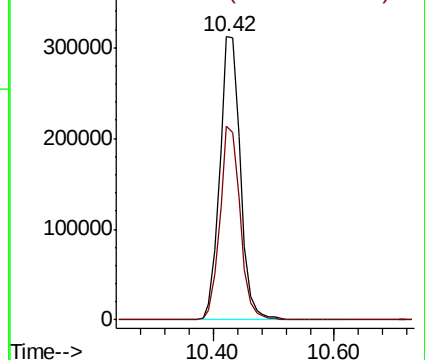
98 100

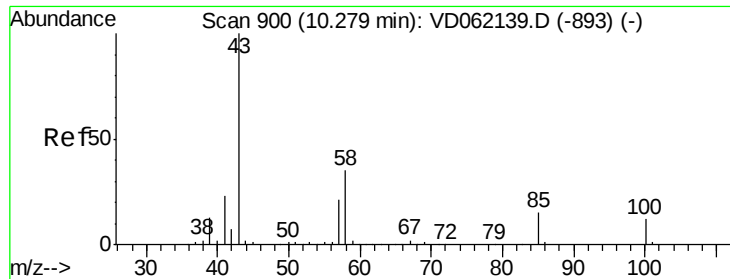
100 68.3 53.8 80.8



Abundance Ion 98.05 (97.75 to 98.75): V

Ion 100.05 (99.75 to 100.75): V





#51

4-Methyl-2-Pentanone

Concen: 1.262 ug/l

RT: 10.42 min Scan# 914

Delta R.T. 0.14 min

Lab File: VD062346.D

Acq: 14 May 2019 15:07

Instrument :

MSVOA\_D

ClientSampleId :

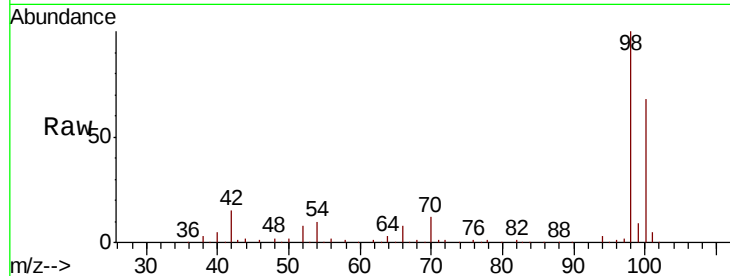
SU-02-050919-A

Tgt Ion: 43 Resp: 4430

Ion Ratio Lower Upper

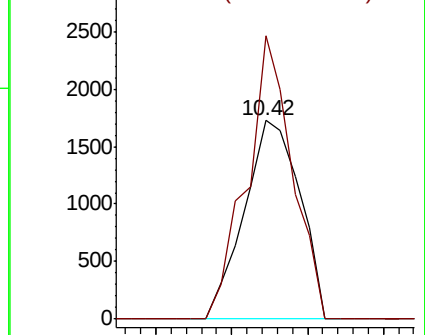
43 100

58 142.7 30.4 45.6#

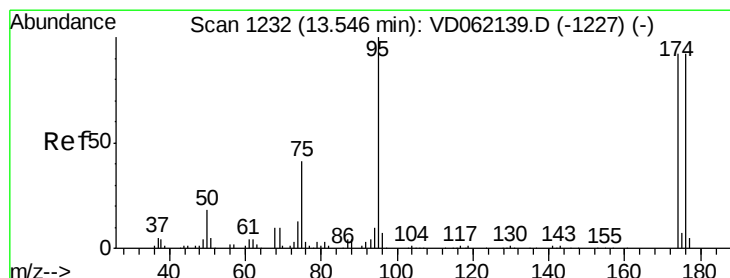
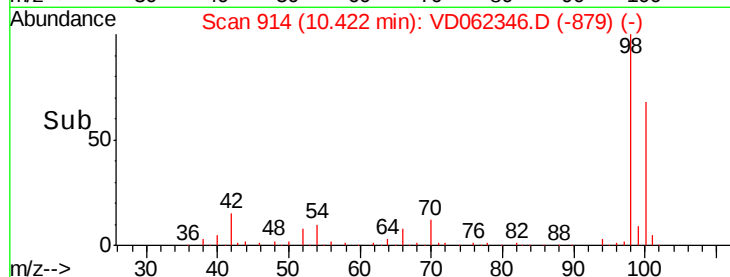


Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC



Time-->



#62

4-Bromofluorobenzene

Concen: 35.120 ug/l

RT: 13.56 min Scan# 1233

Delta R.T. 0.02 min

Lab File: VD062346.D

Acq: 14 May 2019 15:07

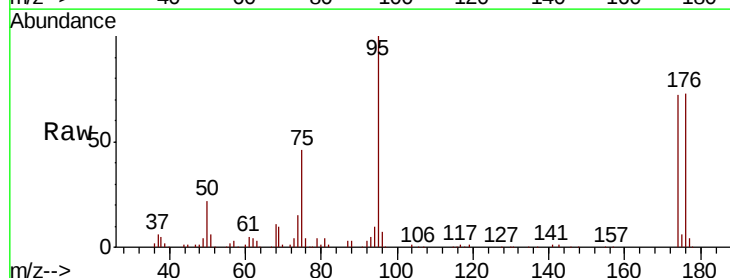
Tgt Ion: 95 Resp: 312534

Ion Ratio Lower Upper

95 100

174 72.5 0.0 181.8

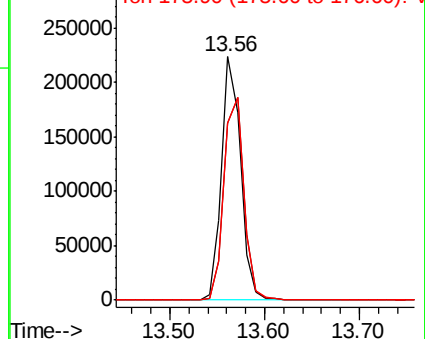
176 72.8 0.0 174.4



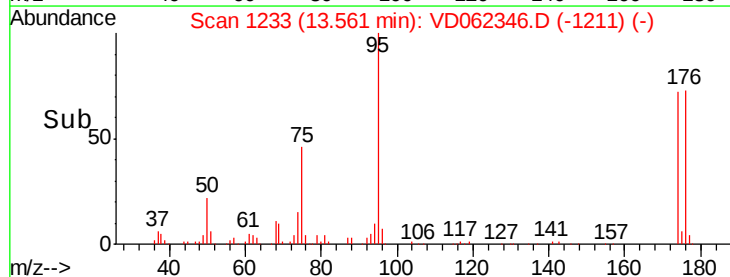
Abundance Ion 95.00 (94.70 to 95.70): VDC

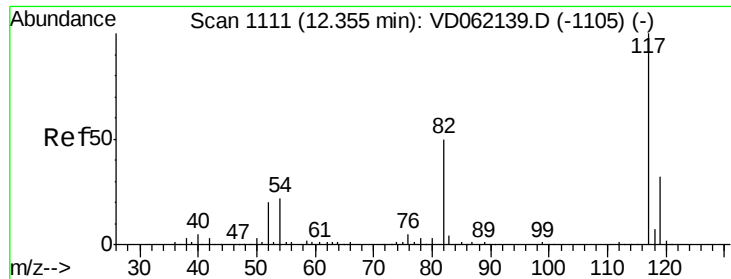
Ion 173.90 (173.60 to 174.60): V

Ion 175.90 (175.60 to 176.60): V



Time-->

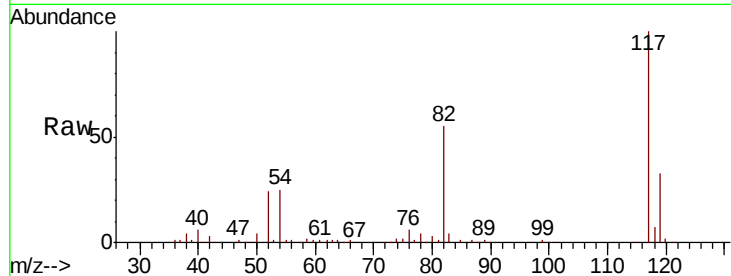




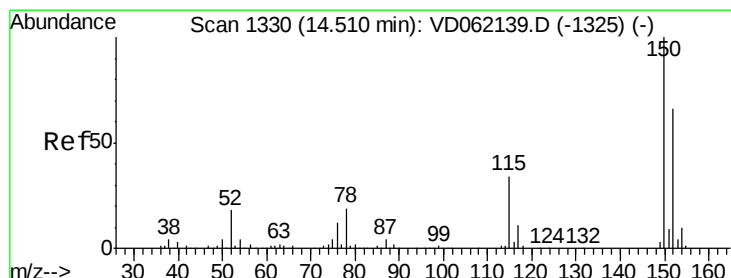
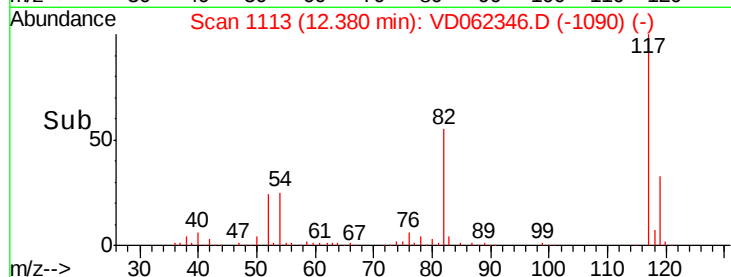
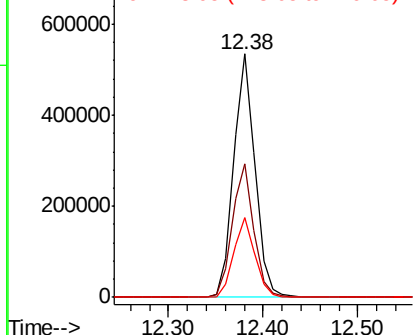
#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 12.38 min Scan# 1113  
Delta R.T. 0.03 min  
Lab File: VD062346.D  
Acq: 14 May 2019 15:07

Instrument :  
MSVOA\_D  
ClientSampleId :  
SU-02-050919-A

Tgt Ion:117 Resp: 838709  
Ion Ratio Lower Upper  
117 100  
82 54.7 36.2 54.2#  
119 32.9 26.2 39.4

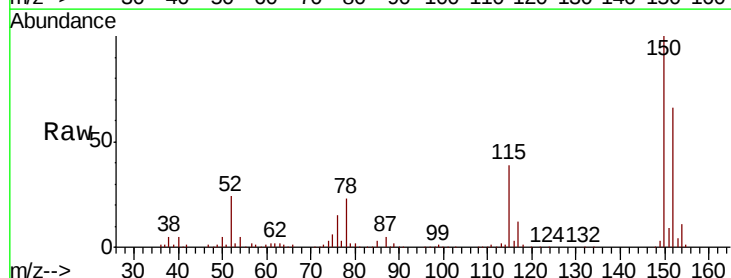


Abundance Ion 116.95 (116.65 to 117.65): V  
Ion 82.05 (81.75 to 82.75): V  
Ion 118.95 (118.65 to 119.65): V

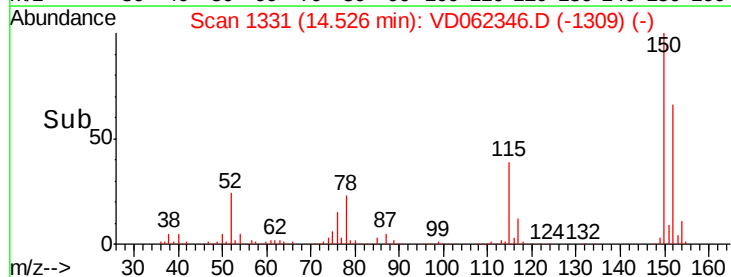
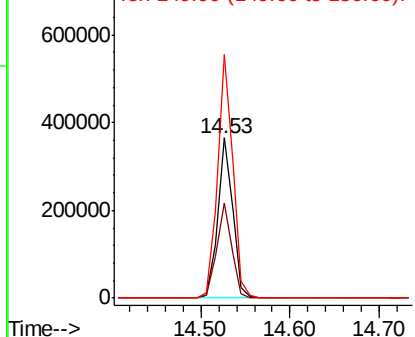


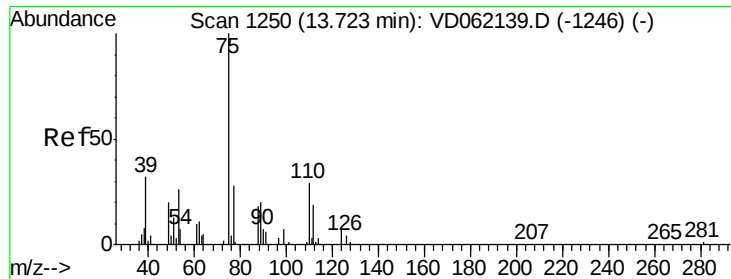
#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 14.53 min Scan# 1331  
Delta R.T. 0.02 min  
Lab File: VD062346.D  
Acq: 14 May 2019 15:07

Tgt Ion:152 Resp: 426130  
Ion Ratio Lower Upper  
152 100  
115 59.6 30.9 92.7  
150 152.2 0.0 314.8



Abundance Ion 151.90 (151.60 to 152.60): V  
Ion 115.00 (114.70 to 115.70): V  
Ion 149.90 (149.60 to 150.60): V

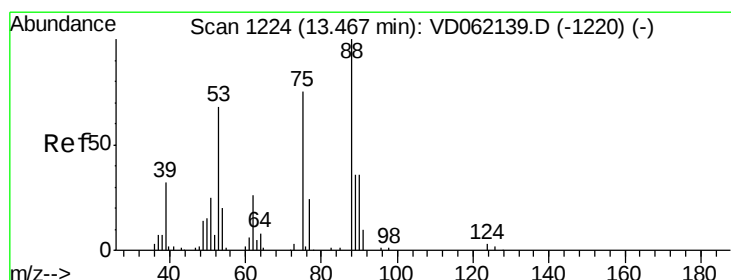
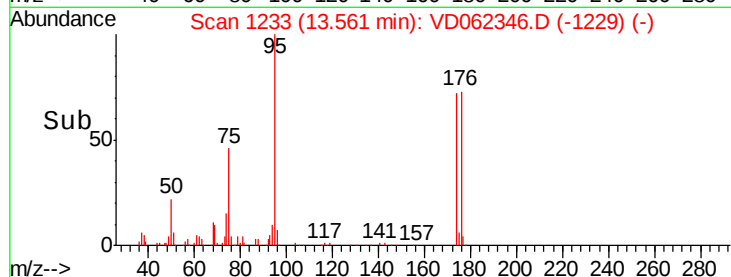
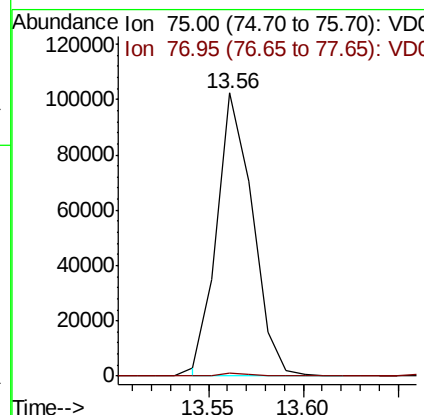
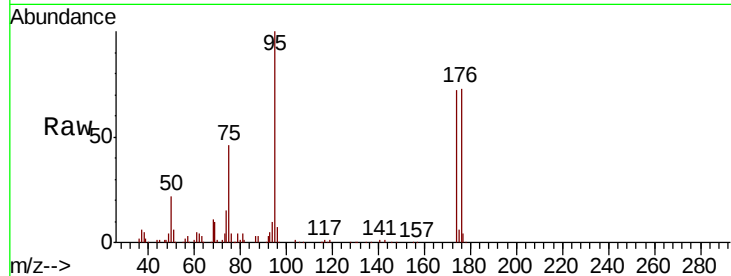




#76  
 1,2,3-Trichloropropane  
 Concen: 26.388 ug/l  
 RT: 13.56 min Scan# 1233  
 Delta R.T. -0.16 min  
 Lab File: VD062346.D  
 Acq: 14 May 2019 15:07

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 SU-02-050919-A

Tgt Ion: 75 Resp: 133633  
 Ion Ratio Lower Upper  
 75 100  
 77 1.0 16.4 49.4#



#81  
 trans-1,4-Dichloro-2-butene  
 Concen: 94.784 ug/l  
 RT: 13.56 min Scan# 1233  
 Delta R.T. 0.09 min  
 Lab File: VD062346.D  
 Acq: 14 May 2019 15:07

Tgt Ion: 75 Resp: 135508  
 Ion Ratio Lower Upper  
 75 100  
 53 0.0 65.8 98.8#  
 89 0.0 35.0 52.6#

