

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD042219\  
 Data File : VD061952.D  
 Acq On : 22 Apr 2019 21:31  
 Operator : VA/AP  
 Sample : K2515-02  
 Misc : 4.48g/5ml/MSVOA D/SOIL  
 ALS Vial : 22 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :

Quant Time: Apr 22 23:35:19 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D041519S.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Apr 18 13:49:04 2019  
 Response via : Initial Calibration

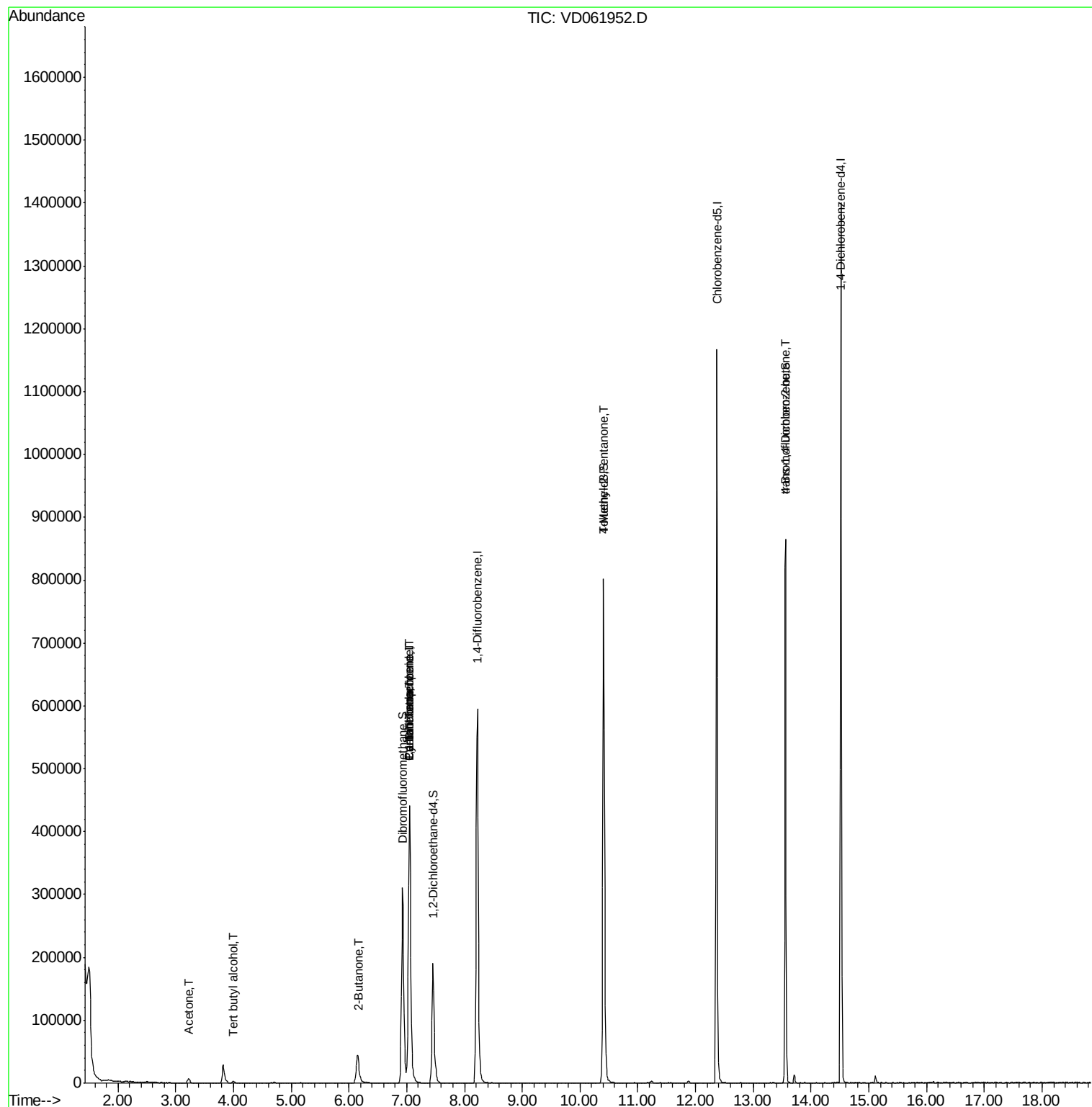
| Internal Standards             | R.T.  | QIon | Response | Conc      | Units   | Dev(Min) |
|--------------------------------|-------|------|----------|-----------|---------|----------|
| 1) Pentafluorobenzene          | 7.05  | 168  | 460406   | 50.00     | ug/l    | 0.00     |
| 34) 1,4-Difluorobenzene        | 8.22  | 114  | 745350   | 50.00     | ug/l    | 0.00     |
| 63) Chlorobenzene-d5           | 12.37 | 117  | 718184   | 50.00     | ug/l    | 0.00     |
| 72) 1,4-Dichlorobenzene-d4     | 14.51 | 152  | 323812   | 50.00     | ug/l    | 0.00     |
| System Monitoring Compounds    |       |      |          |           |         |          |
| 33) 1,2-Dichloroethane-d4      | 7.46  | 65   | 194631   | 50.44     | ug/l    | 0.00     |
| Spiked Amount 50.000           |       |      | Recovery | =         | 100.88% |          |
| 35) Dibromofluoromethane       | 6.92  | 113  | 291379   | 51.74     | ug/l    | 0.00     |
| Spiked Amount 50.000           |       |      | Recovery | =         | 103.48% |          |
| 50) Toluene-d8                 | 10.41 | 98   | 672776   | 50.42     | ug/l    | 0.00     |
| Spiked Amount 50.000           |       |      | Recovery | =         | 100.84% |          |
| 62) 4-Bromofluorobenzene       | 13.55 | 95   | 293692   | 54.31     | ug/l    | 0.00     |
| Spiked Amount 50.000           |       |      | Recovery | =         | 108.62% |          |
| Target Compounds               |       |      |          |           |         |          |
|                                |       |      |          |           | Qvalue  |          |
| 5) Bromomethane                | 2.18  | 94   | 657      | Below Cal | #       | 12       |
| 11) Tert butyl alcohol         | 4.00  | 59   | 2543     | 11.175    | ug/l #  | 76       |
| 16) Acetone                    | 3.22  | 43   | 14815    | 15.578    | ug/l    | 98       |
| 25) 2-Butanone                 | 6.15  | 43   | 2468     | 2.279     | ug/l #  | 56       |
| 31) Cyclohexane                | 7.04  | 56   | 7789     | 1.333     | ug/l #  | 1        |
| 36) 1,1-Dichloropropene        | 7.04  | 75   | 35869    | 5.889     | ug/l #  | 46       |
| 38) Carbon Tetrachloride       | 7.04  | 117  | 45975    | 5.978     | ug/l #  | 16       |
| 51) 4-Methyl-2-Pentanone       | 10.40 | 43   | 2577     | 1.149     | ug/l #  | 1        |
| 81) trans-1,4-Dichloro-2-buten | 13.55 | 75   | 115716   | 81.697    | ug/l #  | 16       |

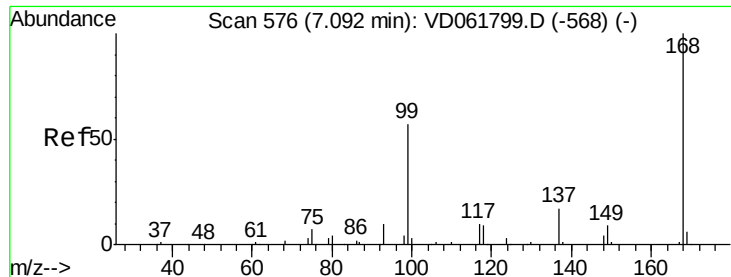
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA D\DATA\VD042219\  
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MSVOA\_D  
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Quant Time: Apr 22 23:35:19 2019  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_D\METHOD\82D041519S.M  
Quant Title : SW846 8260  
QLast Update : Thu Apr 18 13:49:04 2019  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.05 min Scan# 572

Delta R.T. 0.00 min

Lab File: VD061952.D

Acq: 22 Apr 2019 21:31

Instrument :

MSVOA\_D

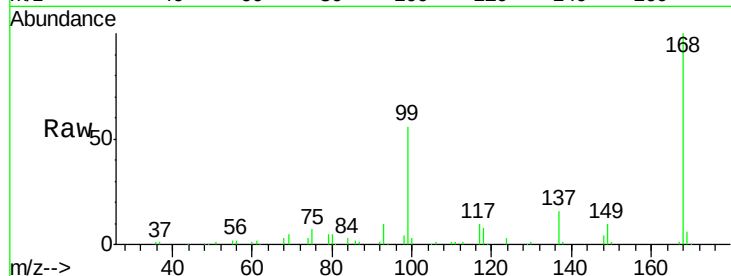
ClientSampleId :

Tot Ion:168 Resp: 460406

Ion Ratio Lower Upper

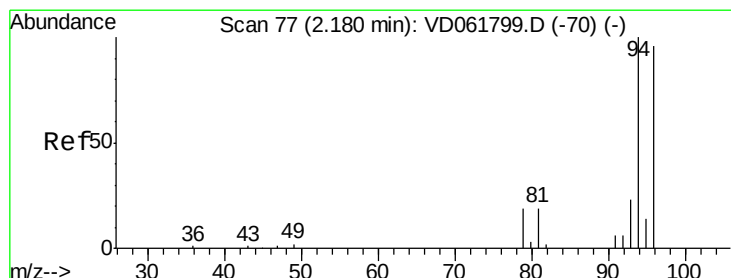
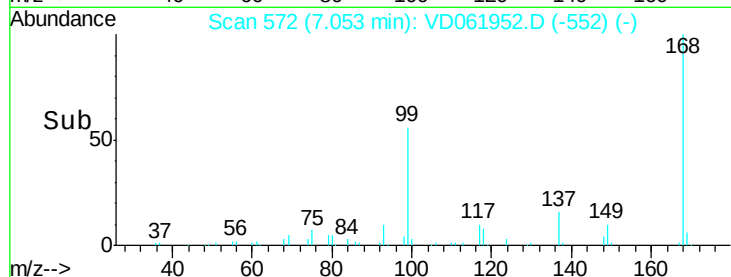
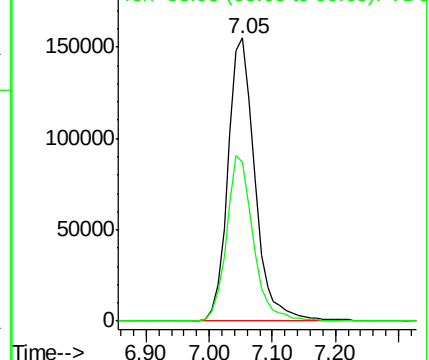
168 100

99 56.2 46.5 69.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC



#5

Bromomethane

Concen: Below Cal

RT: 2.18 min Scan# 77

Delta R.T. 0.03 min

Lab File: VD061952.D

Acq: 22 Apr 2019 21:31

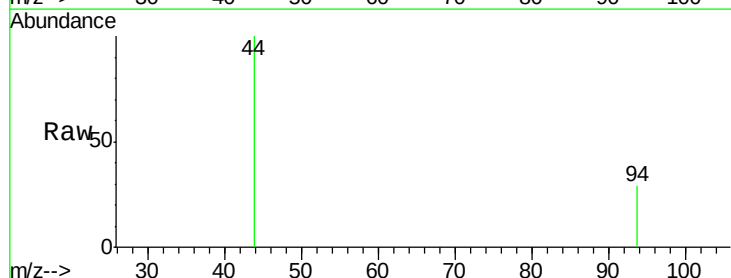
Tgt Ion: 94 Resp: 657

Ion Ratio Lower Upper

94 100

96 0.0 76.6 115.0#

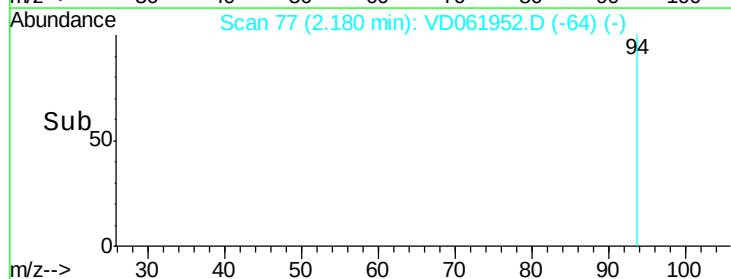
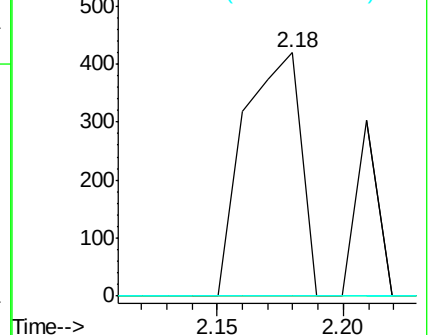
93 0.0 18.5 27.7#

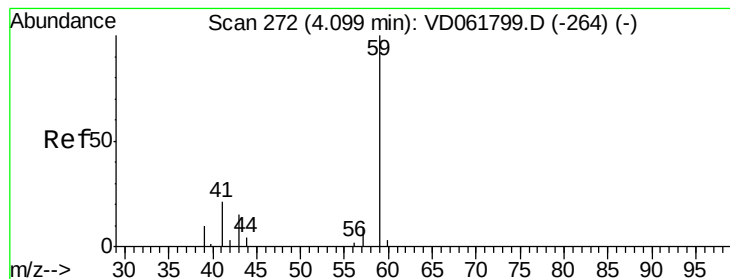


Abundance Ion 94.00 (93.70 to 94.70): VDC

Ion 96.00 (95.70 to 96.70): VDC

Ion 93.00 (92.70 to 93.70): VDC



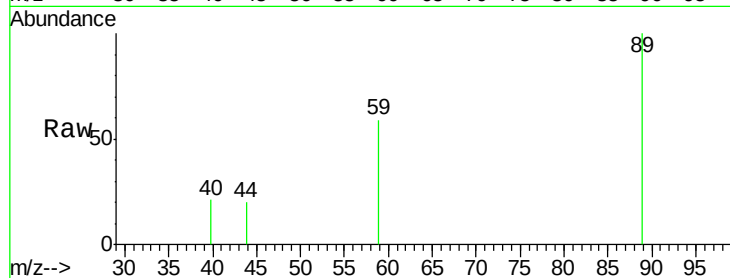


#11

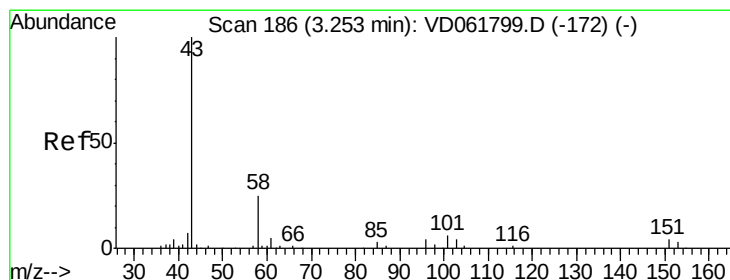
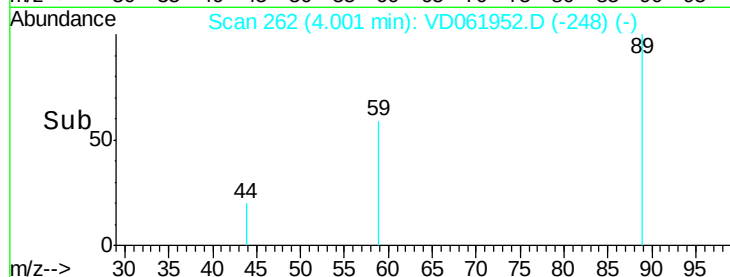
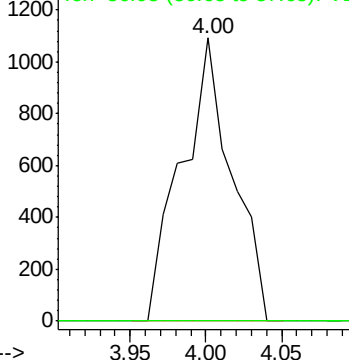
Tert butyl alcohol  
 Concen: 11.175 ug/l  
 RT: 4.00 min Scan# 262  
 Delta R.T. -0.06 min  
 Lab File: VD061952.D  
 Acq: 22 Apr 2019 21:31

Instrument :  
 MSVOA\_D  
 ClientSampled :

Tot Ion: 59 Resp: 2543  
 Ion Ratio Lower Upper  
 59 100  
 57 0.0 6.9 10.3#



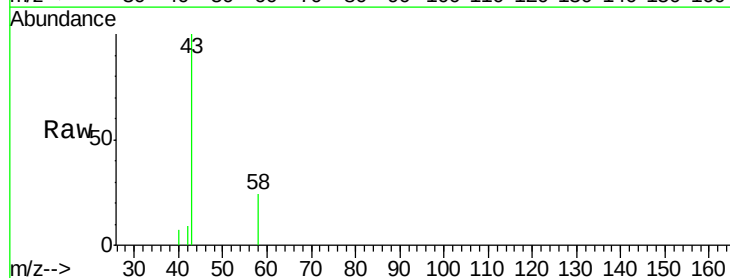
Abundance Ion 58.95 (58.65 to 59.65): VDC  
 Ion 56.95 (56.65 to 57.65): VDC



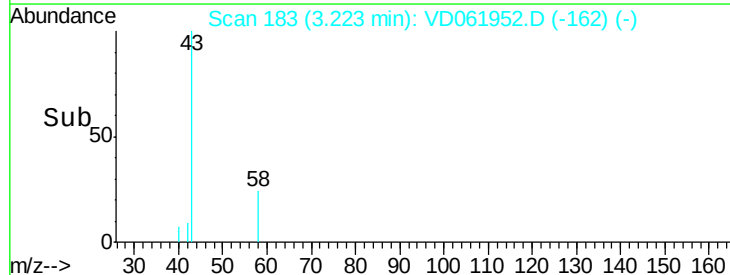
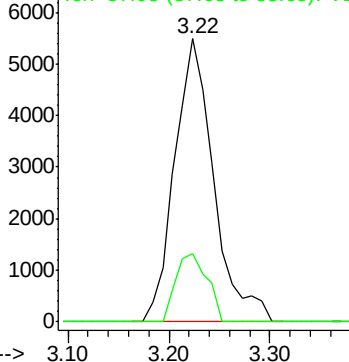
#16

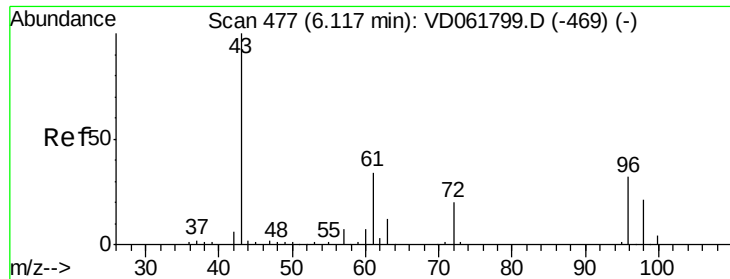
Acetone  
 Concen: 15.578 ug/l  
 RT: 3.22 min Scan# 183  
 Delta R.T. 0.01 min  
 Lab File: VD061952.D  
 Acq: 22 Apr 2019 21:31

Tgt Ion: 43 Resp: 14815  
 Ion Ratio Lower Upper  
 43 100  
 58 24.0 19.9 29.9



Abundance Ion 42.95 (42.65 to 43.65): VDC  
 Ion 57.95 (57.65 to 58.65): VDC





#25

2-Butanone

Concen: 2.279 ug/l

RT: 6.15 min Scan# 480

Delta R.T. 0.08 min

Lab File: VD061952.D

Acq: 22 Apr 2019 21:31

Instrument :

MSVOA\_D

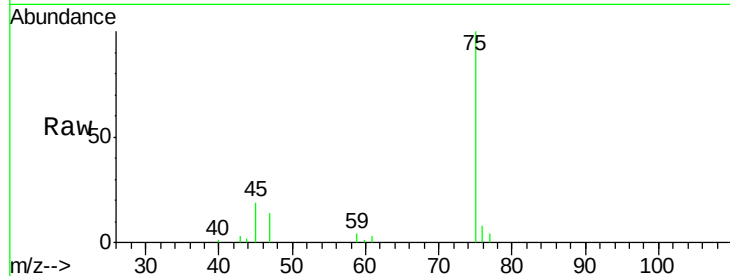
ClientSampleId :

Tot Ion: 43 Resp: 2468

Ion Ratio Lower Upper

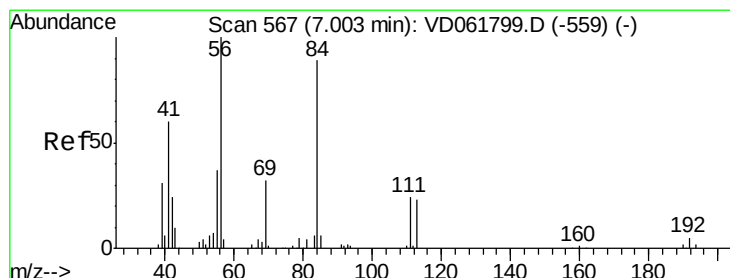
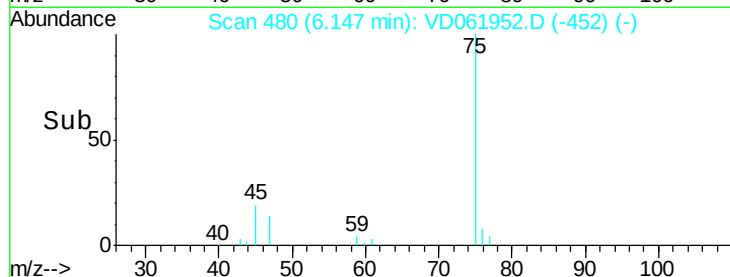
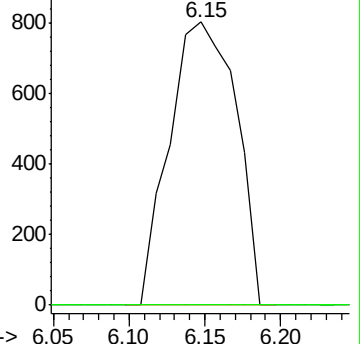
43 100

72 0.0 16.2 24.4#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 72.00 (71.70 to 72.70): VDC



#31

Cyclohexane

Concen: 1.333 ug/l

RT: 7.04 min Scan# 571

Delta R.T. 0.09 min

Lab File: VD061952.D

Acq: 22 Apr 2019 21:31

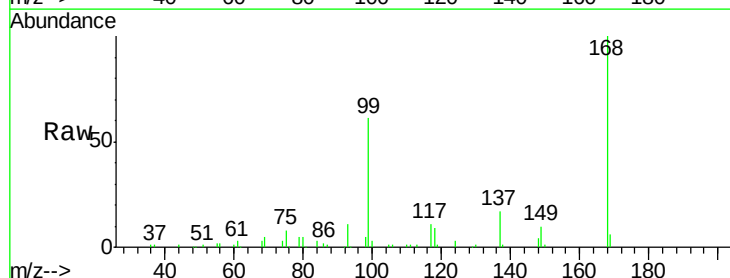
Tgt Ion: 56 Resp: 7789

Ion Ratio Lower Upper

56 100

69 265.6 25.8 38.6#

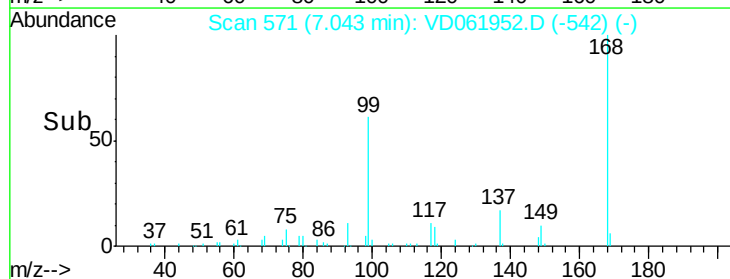
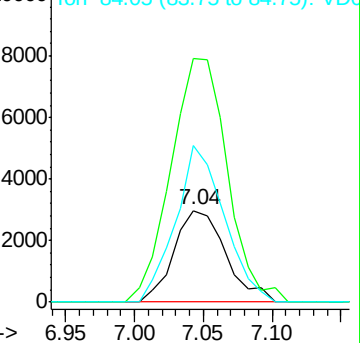
84 171.1 72.2 108.4#

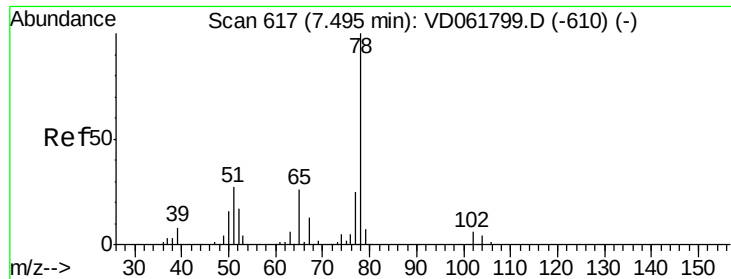


Abundance Ion 55.95 (55.65 to 56.65): VDC

Ion 69.00 (68.70 to 69.70): VDC

Ion 84.05 (83.75 to 84.75): VDC

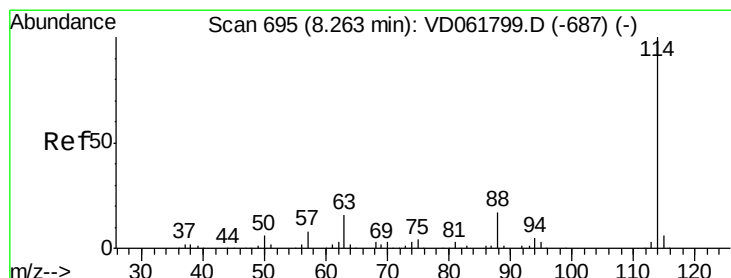
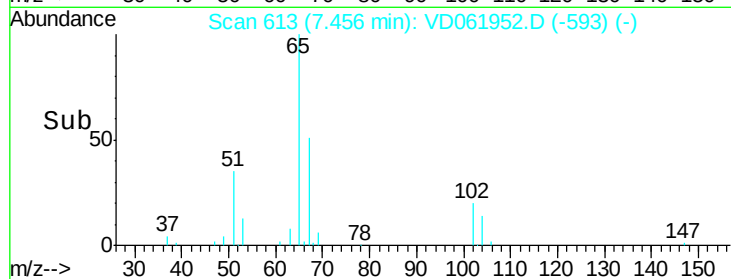
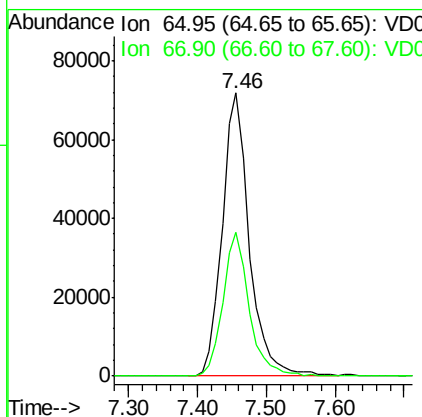
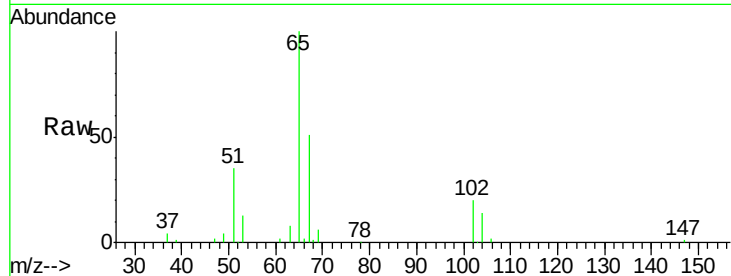




#33  
 1,2-Dichloroethane-d4  
 Concen: N.D. ug/l  
 RT: 7.46 min Scan# 613  
 Delta R.T. 0.00 min  
 Lab File: VD061952.D  
 Acq: 22 Apr 2019 21:31

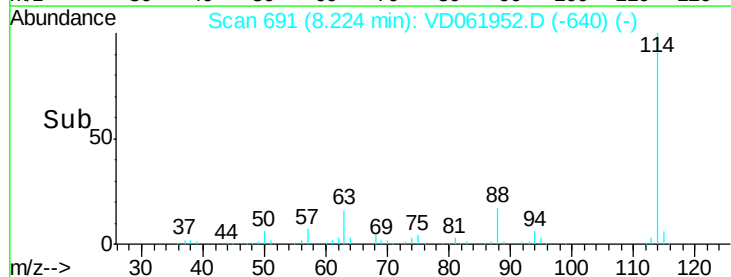
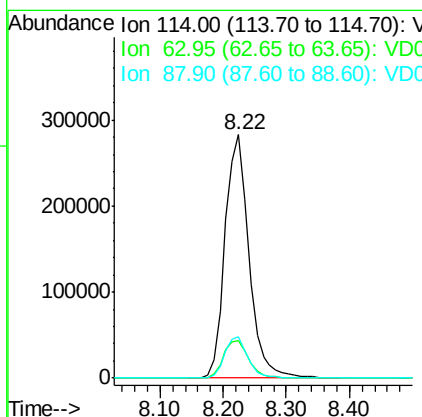
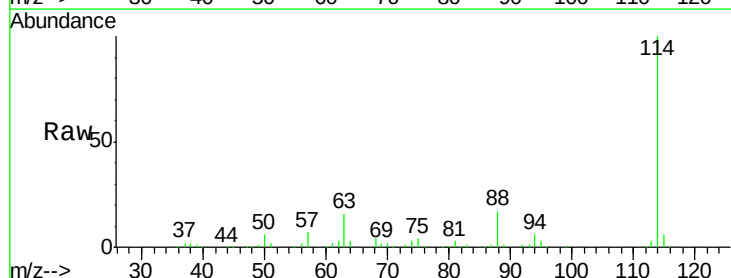
Instrument :  
 MSVOA\_D  
 ClientSampleId :

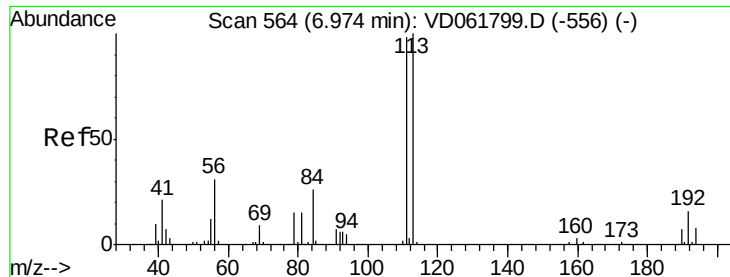
Tot Ion: 65 Resp: 194631  
 Ion Ratio Lower Upper  
 65 100  
 67 50.9 0.0 98.0



#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.22 min Scan# 691  
 Delta R.T. 0.00 min  
 Lab File: VD061952.D  
 Acq: 22 Apr 2019 21:31

Tgt Ion: 114 Resp: 745350  
 Ion Ratio Lower Upper  
 114 100  
 63 15.6 0.0 32.4  
 88 17.0 0.0 33.6





#35

Dibromofluoromethane

Concen: 50.000 ug/l

RT: 6.92 min Scan# 559

Delta R.T. 0.00 min

Lab File: VD061952.D

Acq: 22 Apr 2019 21:31

Instrument :  
MSVOA\_D  
ClientSampled :

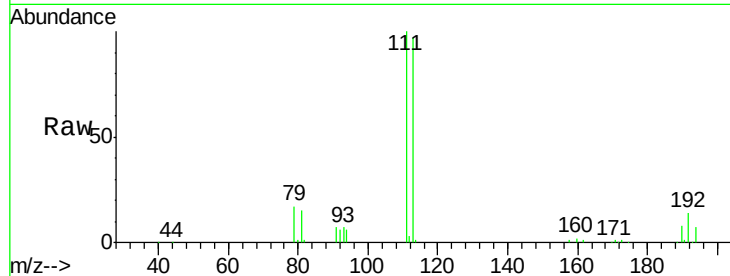
Tot Ion:113 Resp: 291379

Ion Ratio Lower Upper

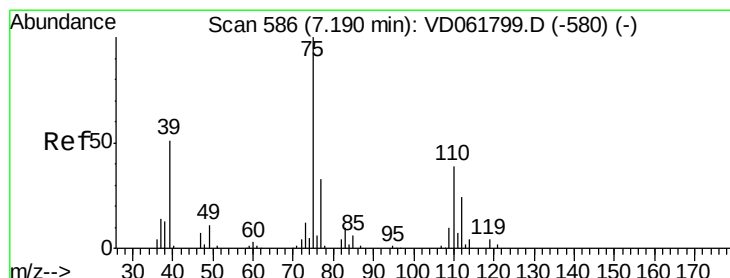
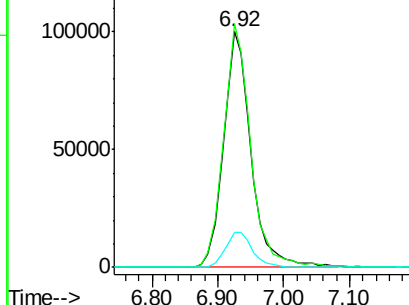
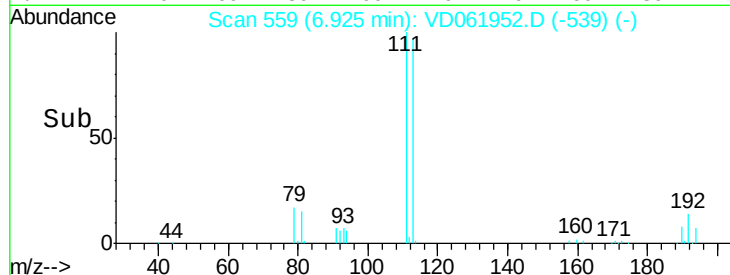
113 100

111 103.4 78.5 117.7

192 14.9 13.0 19.4



Abundance Ion 112.90 (112.60 to 113.60): V  
Ion 110.90 (110.60 to 111.60): V  
Ion 191.80 (191.50 to 192.50): V



#36

1,1-Dichloropropene

Concen: 5.889 ug/l

RT: 7.04 min Scan# 571

Delta R.T. -0.11 min

Lab File: VD061952.D

Acq: 22 Apr 2019 21:31

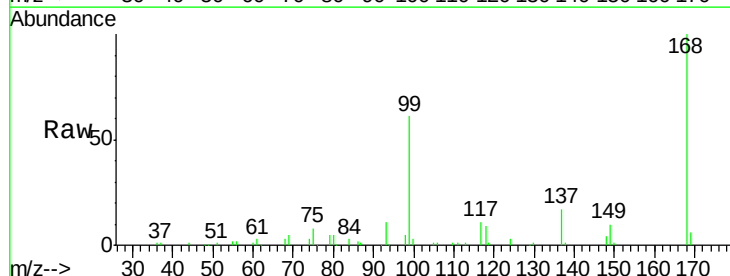
Tgt Ion: 75 Resp: 35869

Ion Ratio Lower Upper

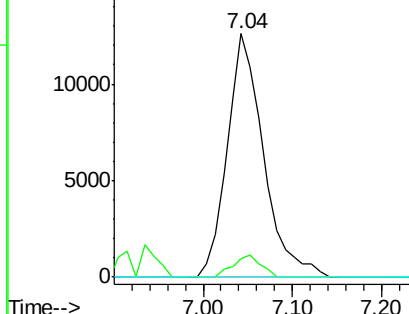
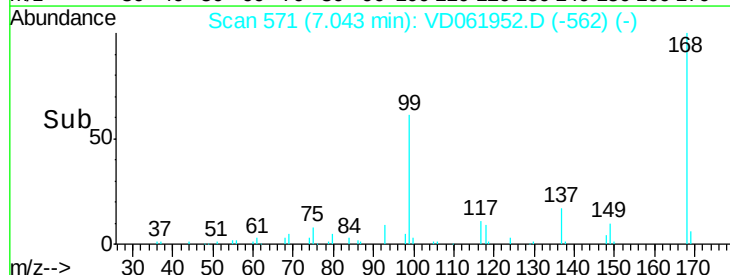
75 100

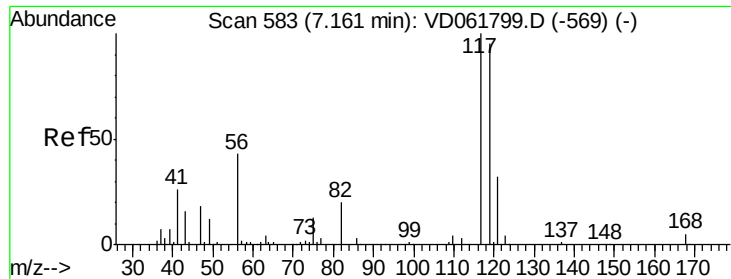
110 7.4 19.1 57.1#

77 0.0 25.6 38.4#



Abundance Ion 75.00 (74.70 to 75.70): VDC  
Ion 109.90 (109.60 to 110.60): V  
Ion 76.95 (76.65 to 77.65): VDC





#38

Carbon Tetrachloride

Concen: 5.978 ug/l

RT: 7.04 min Scan# 571

Delta R.T. -0.07 min

Lab File: VD061952.D

Acq: 22 Apr 2019 21:31

Instrument :

MSVOA\_D

ClientSampleId :

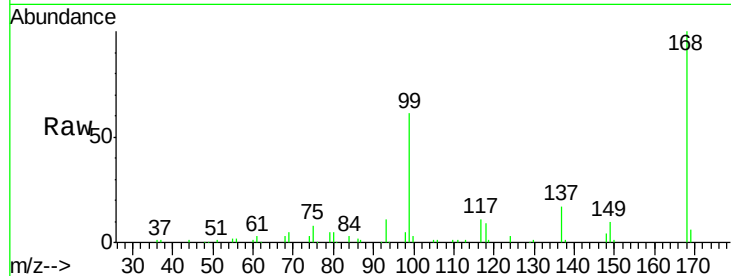
Tot Ion:117 Resp: 45975

Ion Ratio Lower Upper

117 100

119 5.0 75.8 113.8#

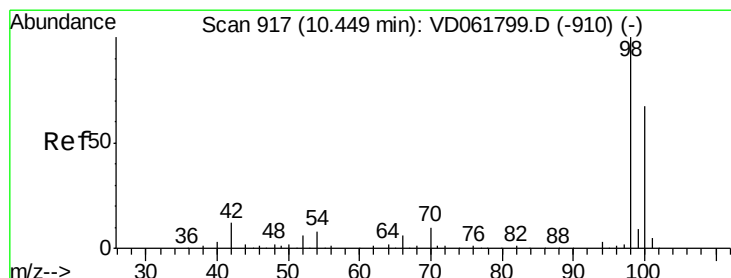
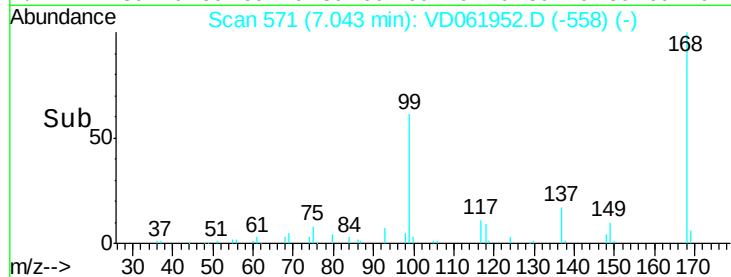
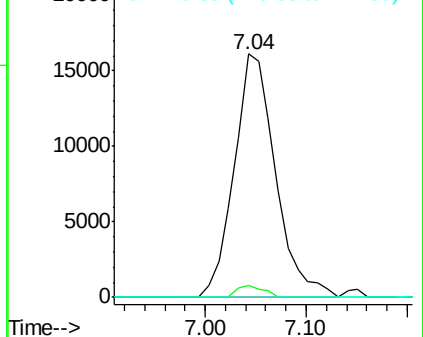
121 0.0 25.9 38.9#



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: N.D. ug/l

RT: 10.41 min Scan# 913

Delta R.T. 0.00 min

Lab File: VD061952.D

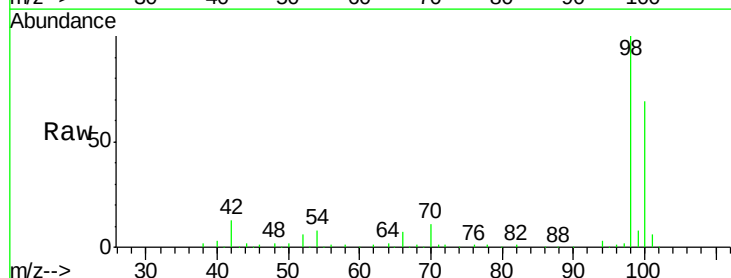
Acq: 22 Apr 2019 21:31

Tgt Ion: 98 Resp: 672776

Ion Ratio Lower Upper

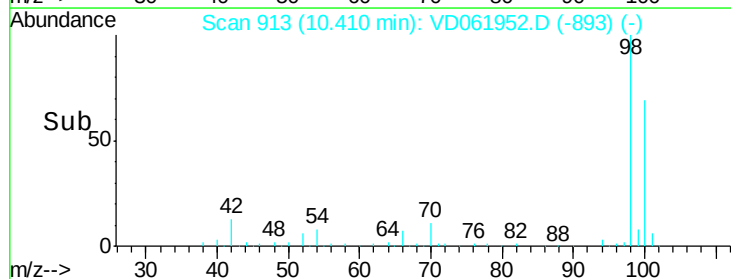
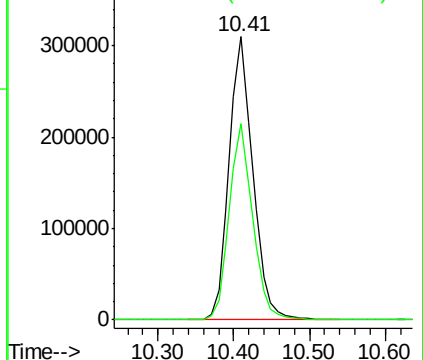
98 100

100 69.2 53.8 80.8

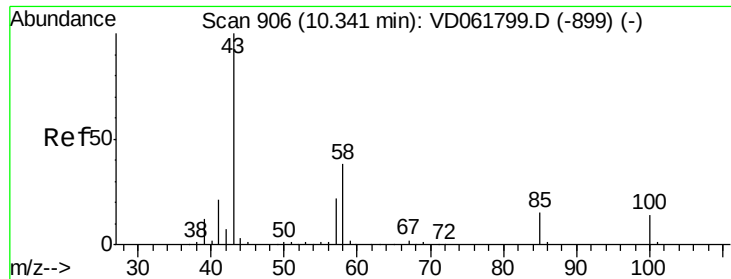


Abundance Ion 98.05 (97.75 to 98.75): V

Ion 100.05 (99.75 to 100.75): V







#51

4-Methyl-2-Pentanone

Concen: 1.149 ug/l

RT: 10.40 min Scan# 912

Delta R.T. 0.10 min

Lab File: VD061952.D

Acq: 22 Apr 2019 21:31

Instrument :

MSVOA\_D

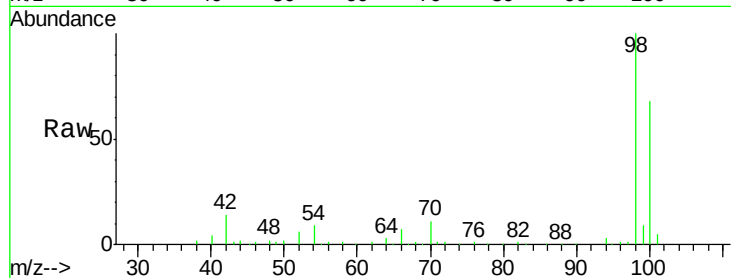
ClientSampled :

Tot Ion: 43 Resp: 2577

Ion Ratio Lower Upper

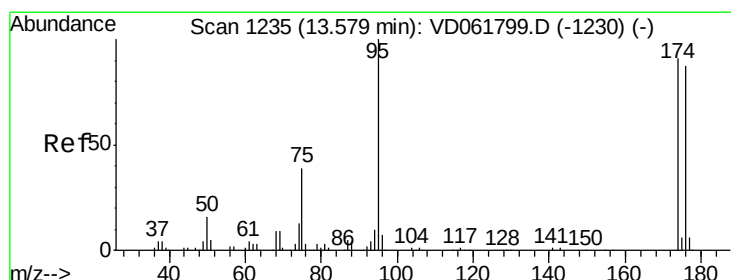
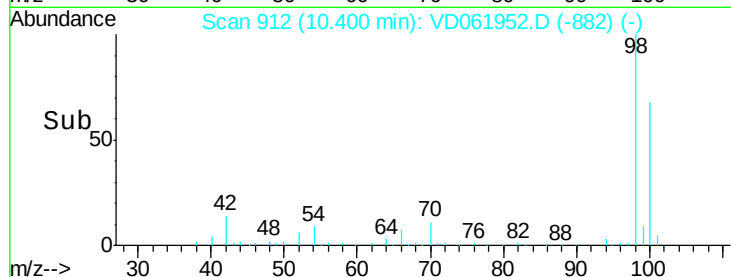
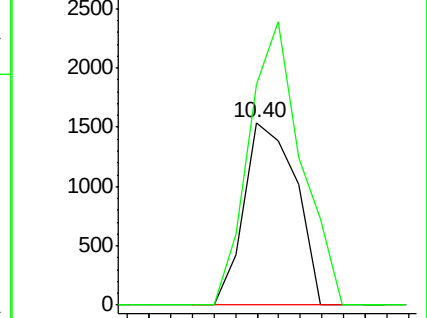
43 100

58 120.8 30.4 45.6#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC



#62

4-Bromofluorobenzene

Concen: N.D. ug/l

RT: 13.55 min Scan# 1232

Delta R.T. -0.01 min

Lab File: VD061952.D

Acq: 22 Apr 2019 21:31

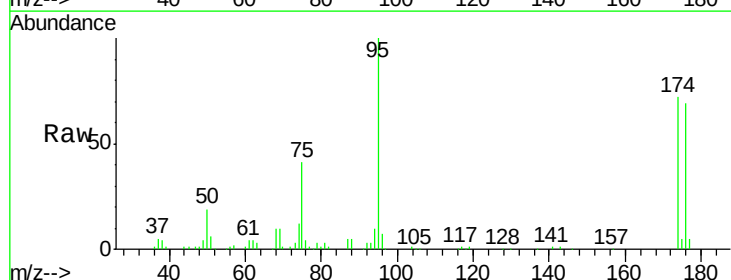
Tgt Ion: 95 Resp: 293692

Ion Ratio Lower Upper

95 100

174 71.7 0.0 181.8

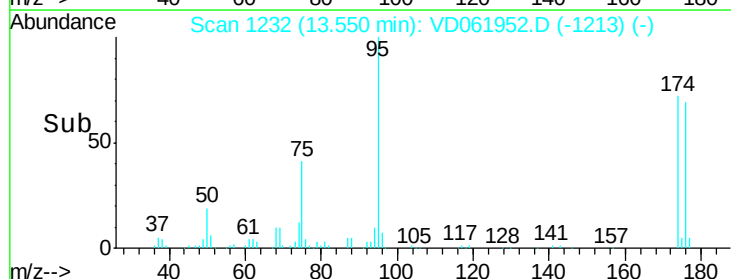
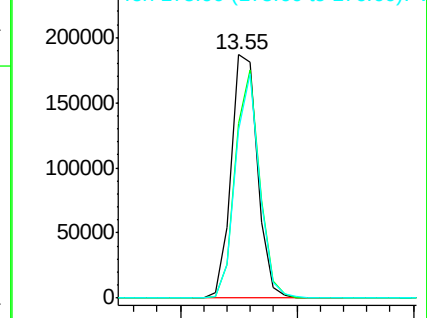
176 69.2 0.0 174.4

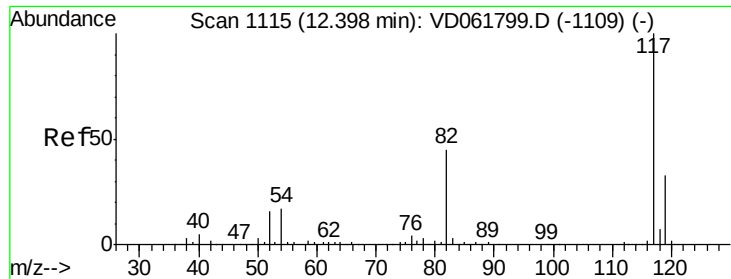


Abundance Ion 95.00 (94.70 to 95.70): VDC

Ion 173.90 (173.60 to 174.60): V

Ion 175.90 (175.60 to 176.60): V

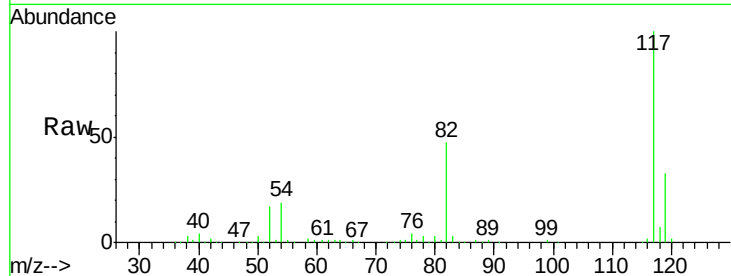




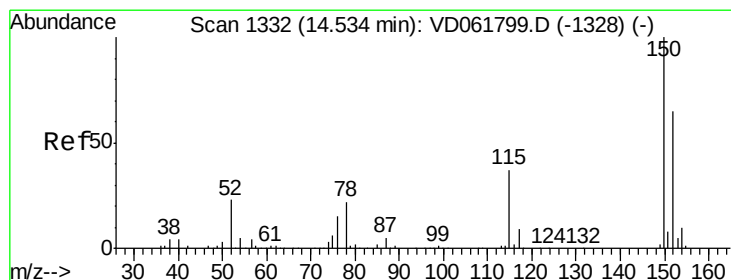
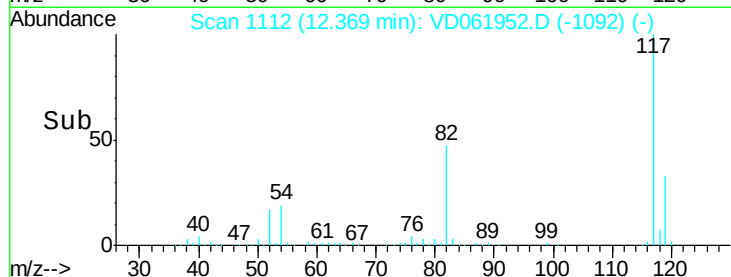
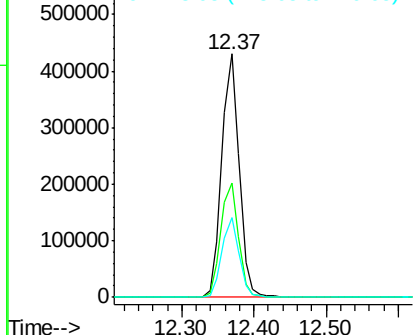
#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 12.37 min Scan# 1112  
Delta R.T. 0.00 min  
Lab File: VD061952.D  
Acq: 22 Apr 2019 21:31

Instrument :  
MSVOA\_D  
ClientSampleID :

Tot Ion:117 Resp: 718184  
Ion Ratio Lower Upper  
117 100  
82 46.9 36.2 54.2  
119 32.9 26.2 39.4

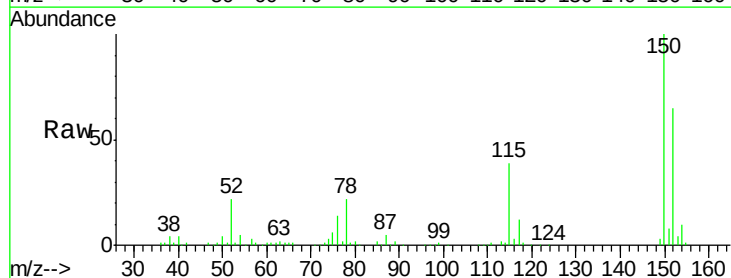


Abundance Ion 116.95 (116.65 to 117.65): V  
Ion 82.05 (81.75 to 82.75): V  
Ion 118.95 (118.65 to 119.65): V

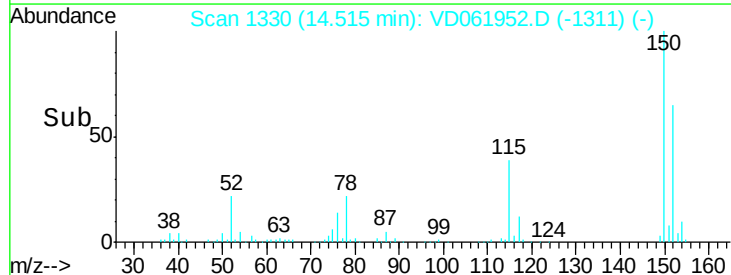
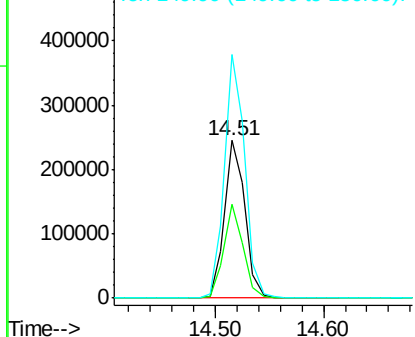


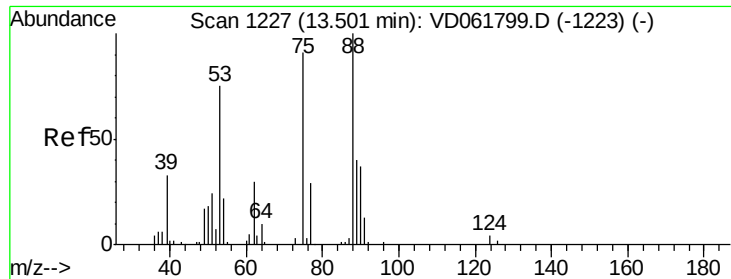
#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 14.51 min Scan# 1330  
Delta R.T. -0.01 min  
Lab File: VD061952.D  
Acq: 22 Apr 2019 21:31

Tgt Ion:152 Resp: 323812  
Ion Ratio Lower Upper  
152 100  
115 59.9 30.9 92.7  
150 154.4 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





#81

trans-1,4-Dichloro-2-butene

Concen: 81.697 ug/l

RT: 13.55 min Scan# 1232

Delta R.T. 0.08 min

Lab File: VD061952.D

Acq: 22 Apr 2019 21:31

Instrument :

MSVOA\_D

ClientSampleId :

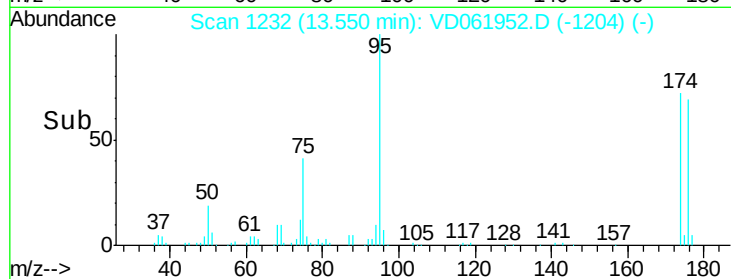
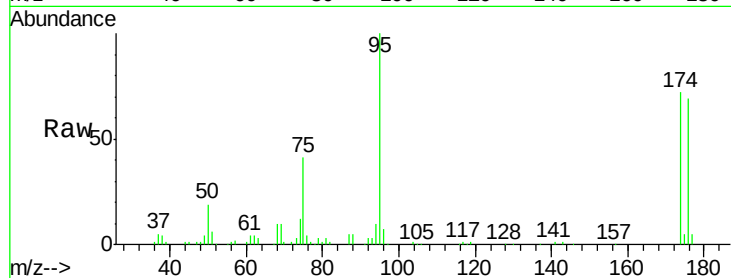
Tot Ion: 75 Resp: 115716

Ion Ratio Lower Upper

75 100

53 0.0 65.8 98.8#

89 0.0 35.0 52.6#



Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 53.00 (52.70 to 53.70): VDC

Ion 89.00 (88.70 to 89.70): VDC

