

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD100918\  
 Data File : VD060158.D  
 Acq On : 9 Oct 2018 18:35  
 Operator : VA/AP  
 Sample : J5326-05  
 Misc : 6.79g/5ml/MSVOA D/SOIL  
 ALS Vial : 15 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 FL-PIT-2

Quant Time: Oct 10 01:16:25 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D100118S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Oct 02 06:56:35 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 6.38  | 168  | 1329889  | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 7.41  | 114  | 1843090  | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.27 | 117  | 1469950  | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.37 | 152  | 761736   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units   | Dev(Min) |
|-----------------------------|-------|------|----------|-------|---------|----------|
| 33) 1,2-Dichloroethane-d4   | 6.75  | 65   | 627317   | 62.23 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 124.46% |          |
| 35) Dibromofluoromethane    | 6.29  | 113  | 812661   | 58.06 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 116.12% |          |
| 50) Toluene-d8              | 9.43  | 98   | 2247994  | 56.33 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 112.66% |          |
| 62) 4-Bromofluorobenzene    | 12.41 | 95   | 822880   | 55.07 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 110.14% |          |

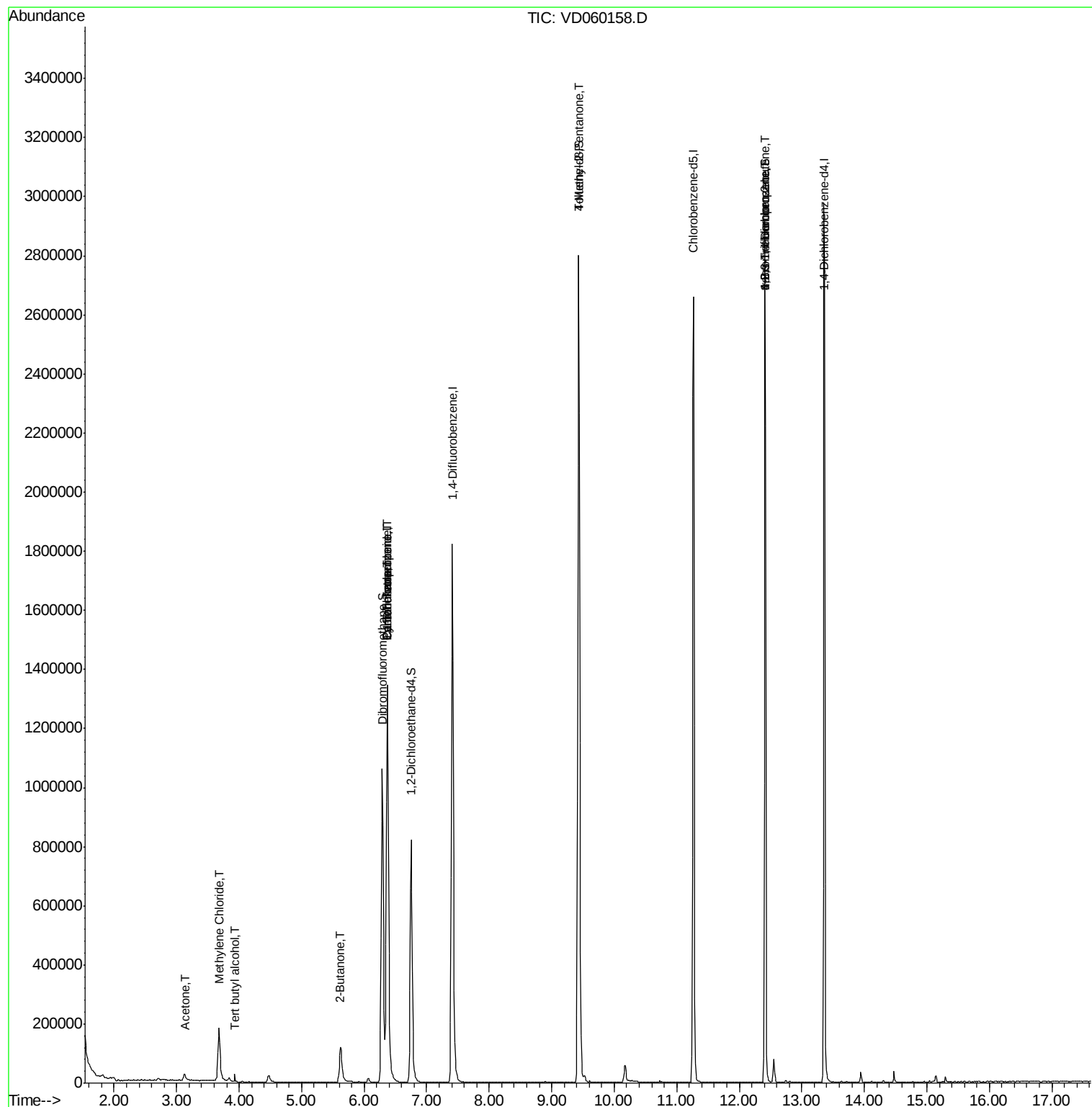
| Target Compounds               | R.T.  | QIon | Response | Conc    | Units  | Qvalue |
|--------------------------------|-------|------|----------|---------|--------|--------|
| 11) Tert butyl alcohol         | 3.93  | 59   | 905      | 1.252   | ug/l # | 74     |
| 16) Acetone                    | 3.13  | 43   | 41872    | 22.891  | ug/l   | 98     |
| 20) Methylene Chloride         | 3.68  | 84   | 100385   | 2.923   | ug/l   | 96     |
| 25) 2-Butanone                 | 5.62  | 43   | 10039    | 2.197   | ug/l # | 59     |
| 31) Cyclohexane                | 6.37  | 56   | 24838    | 1.137   | ug/l # | 1      |
| 36) 1,1-Dichloropropene        | 6.37  | 75   | 95926    | 5.447   | ug/l # | 46     |
| 38) Carbon Tetrachloride       | 6.37  | 117  | 100474   | 6.285   | ug/l # | 15     |
| 51) 4-Methyl-2-Pentanone       | 9.43  | 43   | 12875    | 1.327   | ug/l # | 1      |
| 76) 1,2,3-Trichloropropane     | 12.41 | 75   | 258827   | 23.594  | ug/l # | 44     |
| 81) trans-1,4-Dichloro-2-buten | 12.41 | 75   | 326826   | 106.029 | ug/l # | 13     |

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

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA D\DATA\VD100918\  
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Acq On : 9 Oct 2018 18:35  
Operator : VA/AP  
Sample : J5326-05  
Misc : 6.79g/5ml/MSVOA D/SOIL  
ALS Vial : 15 Sample Multiplier: 1

Instrument :  
MSVOA\_D  
ClientSampleId :  
FL-PIT-2

Quant Time: Oct 10 01:16:25 2018  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_D\METHOD\82D100118S.M  
Quant Title : SW846 8260  
QLast Update : Tue Oct 02 06:56:35 2018  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 6.38 min Scan# 493

Delta R.T. -0.01 min

Lab File: VD060158.D

Acq: 9 Oct 2018 18:35

Instrument :

MSVOA\_D

ClientSampleID :

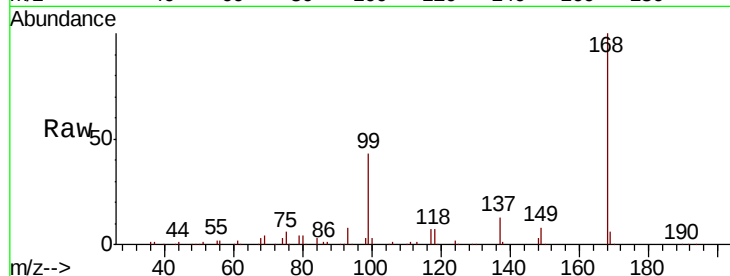
FL-PIT-2

Tot Ion:168 Resp: 1329889

Ion Ratio Lower Upper

168 100

99 42.5 35.4 53.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC

6.38

500000

400000

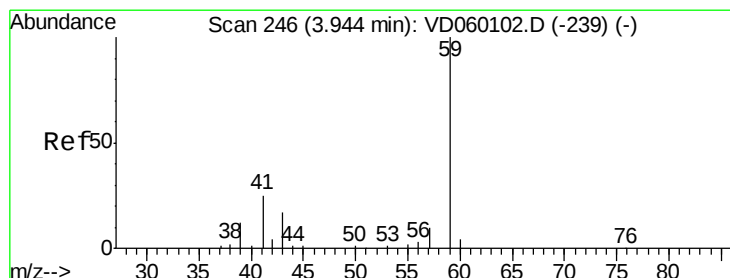
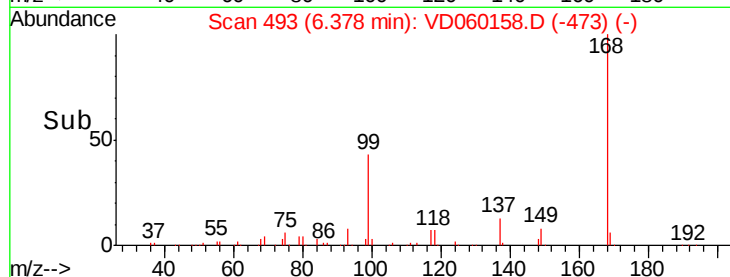
300000

200000

100000

0

Time--> 6.20 6.30 6.40 6.50 6.60



#11

Tert butyl alcohol

Concen: 1.252 ug/l

RT: 3.93 min Scan# 244

Delta R.T. -0.02 min

Lab File: VD060158.D

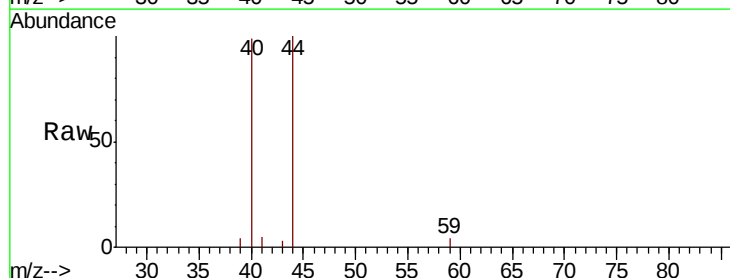
Acq: 9 Oct 2018 18:35

Tgt Ion: 59 Resp: 905

Ion Ratio Lower Upper

59 100

57 0.0 7.8 11.6#



Abundance Ion 58.95 (58.65 to 59.65): VDC

Ion 56.95 (56.65 to 57.65): VDC

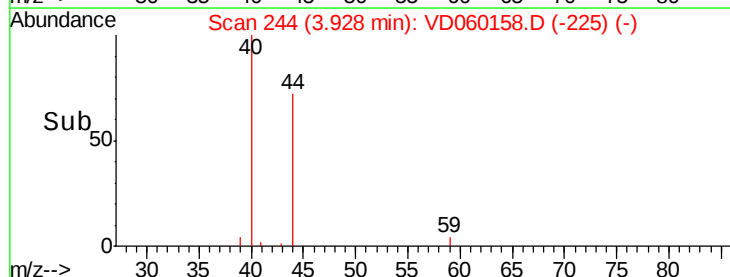
600

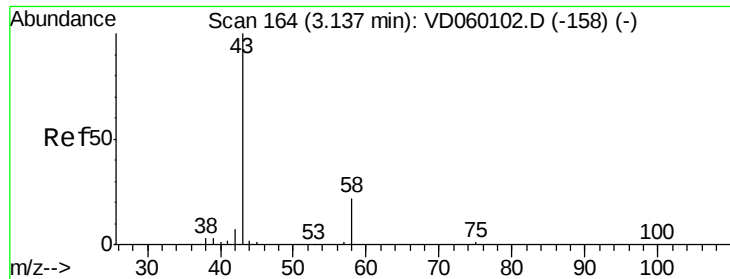
400

200

0

Time--> 3.88 3.90 3.92 3.94





#16

Acetone

Concen: 22.891 ug/l

RT: 3.13 min Scan# 163

Delta R.T. -0.01 min

Lab File: VD060158.D

Acq: 9 Oct 2018 18:35

Instrument :

MSVOA\_D

ClientSampleId :

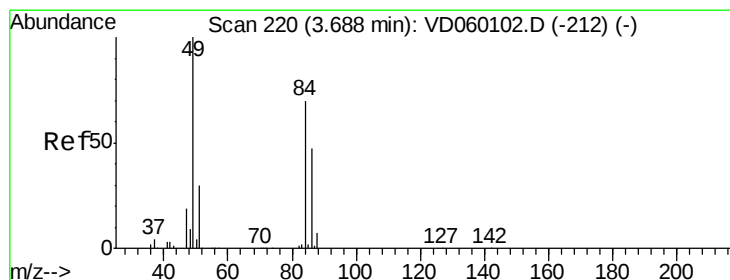
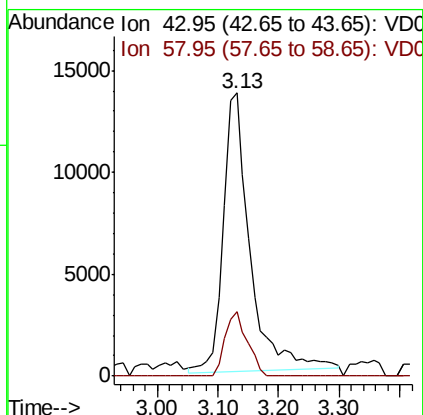
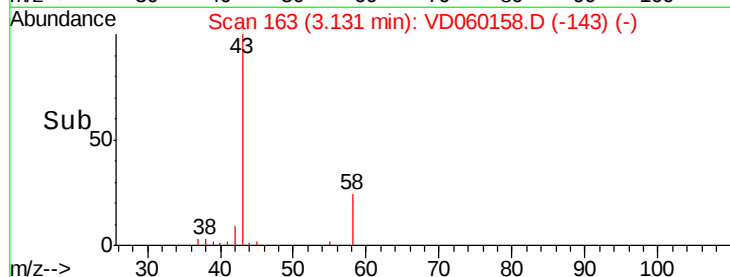
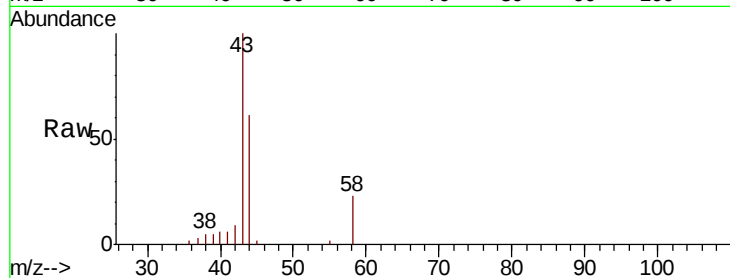
FL-PIT-2

Tot Ion: 43 Resp: 41872

Ion Ratio Lower Upper

43 100

58 23.0 17.7 26.5



#20

Methylene Chloride

Concen: 2.923 ug/l

RT: 3.68 min Scan# 219

Delta R.T. -0.01 min

Lab File: VD060158.D

Acq: 9 Oct 2018 18:35

Tgt Ion: 84 Resp: 100385

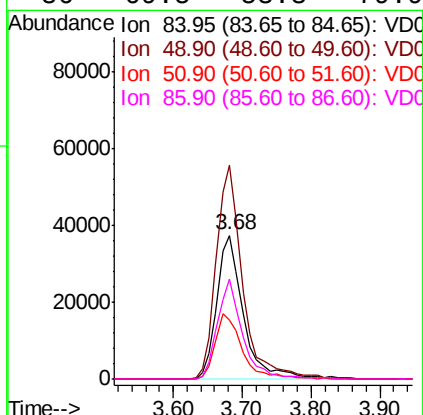
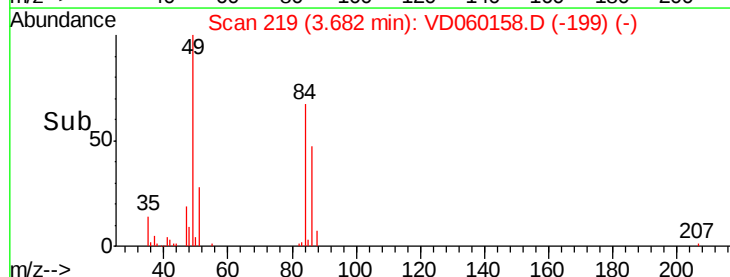
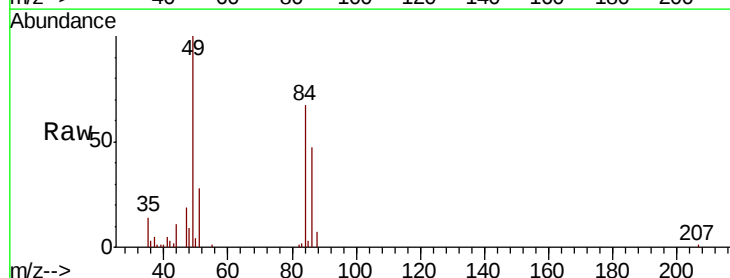
Ion Ratio Lower Upper

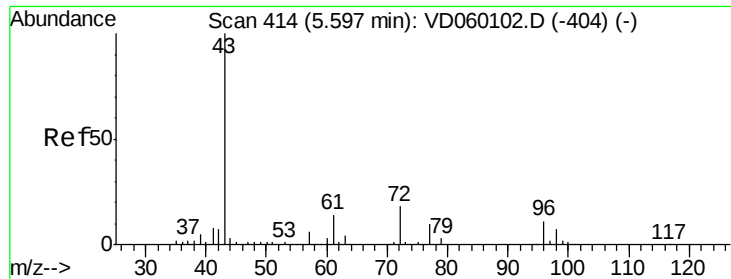
84 100

49 148.8 114.6 172.0

51 41.4 33.8 50.8

86 69.5 53.3 79.9





#25

2-Butanone

Concen: 2.197 ug/l

RT: 5.62 min Scan# 416

Delta R.T. 0.02 min

Lab File: VD060158.D

Acq: 9 Oct 2018 18:35

Instrument :

MSVOA\_D

ClientSampleId :

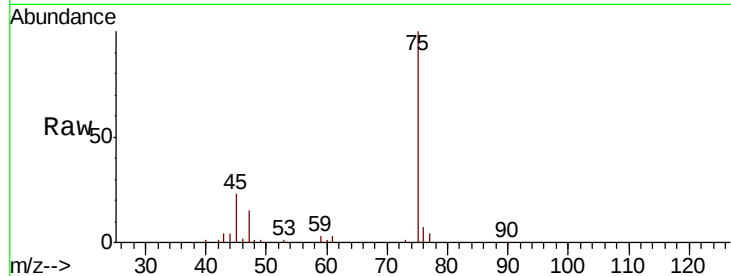
FL-PIT-2

Tot Ion: 43 Resp: 10039

Ion Ratio Lower Upper

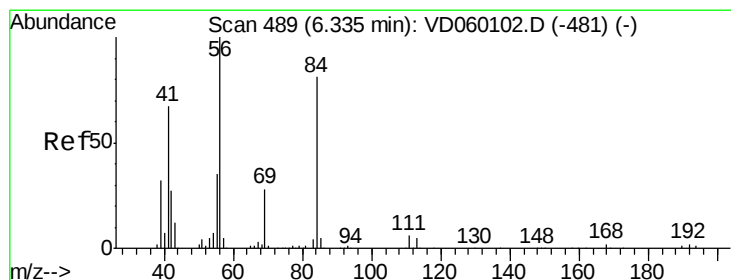
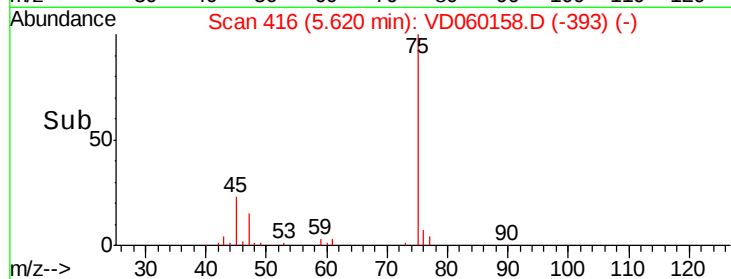
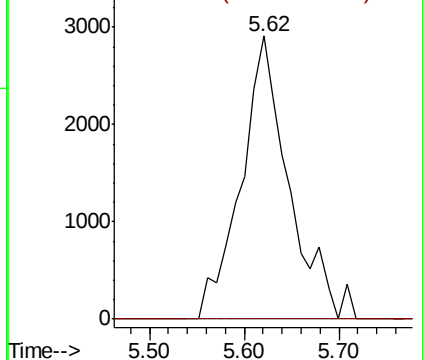
43 100

72 0.0 14.5 21.7#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 72.00 (71.70 to 72.70): VDC



#31

Cyclohexane

Concen: 1.137 ug/l

RT: 6.37 min Scan# 492

Delta R.T. 0.03 min

Lab File: VD060158.D

Acq: 9 Oct 2018 18:35

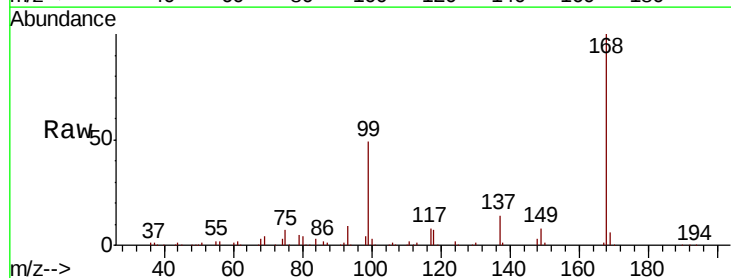
Tgt Ion: 56 Resp: 24838

Ion Ratio Lower Upper

56 100

69 231.8 22.8 34.2#

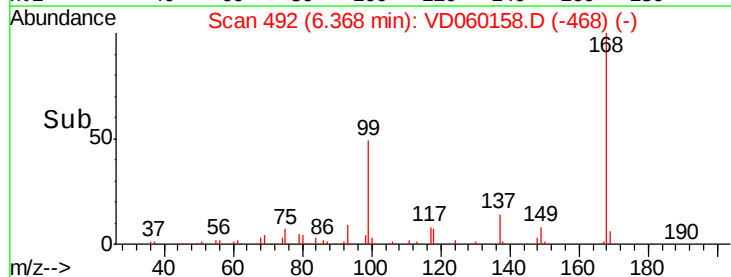
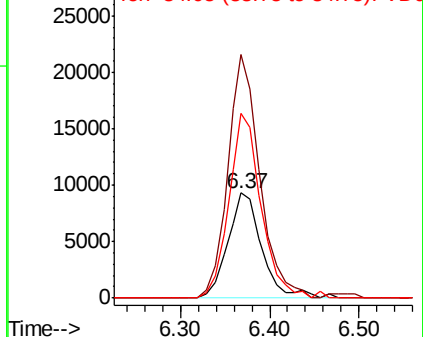
84 176.0 64.9 97.3#

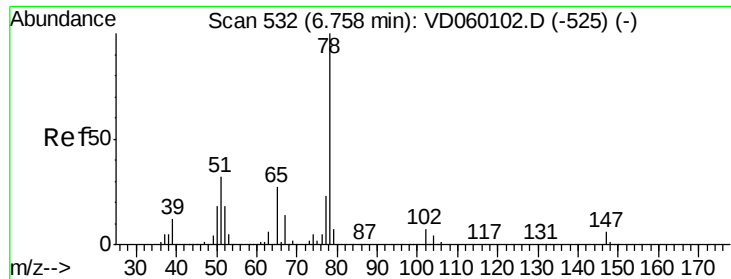


Abundance Ion 55.95 (55.65 to 56.65): VDC

Ion 69.00 (68.70 to 69.70): VDC

Ion 84.05 (83.75 to 84.75): VDC

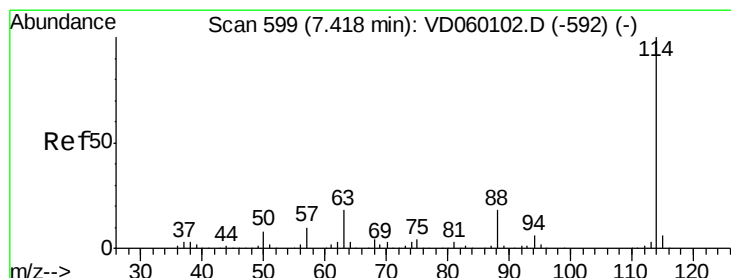
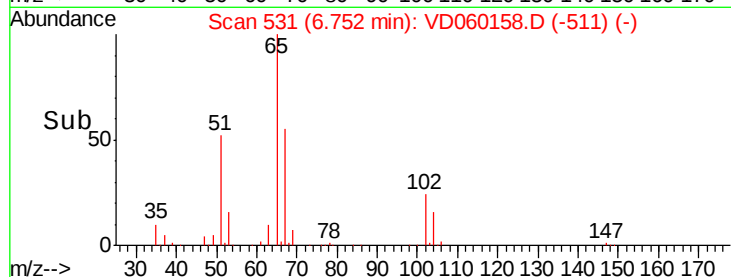
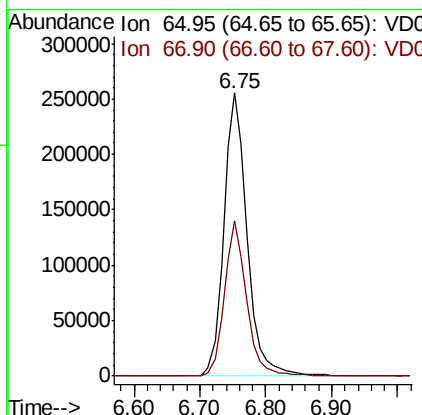
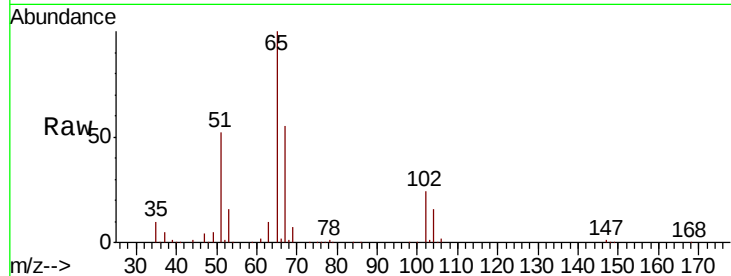




#33  
 1,2-Dichloroethane-d4  
 Concen: N.D. ug/l  
 RT: 6.75 min Scan# 531  
 Delta R.T. -0.01 min  
 Lab File: VD060158.D  
 Acq: 9 Oct 2018 18:35

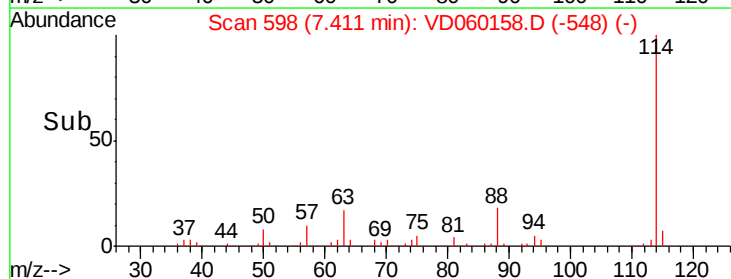
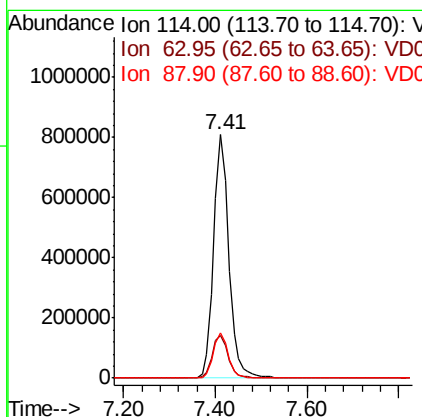
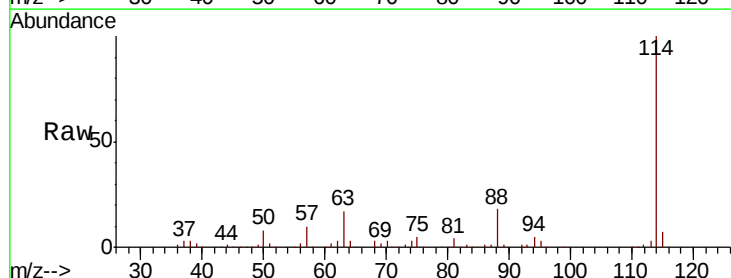
Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 FL-PIT-2

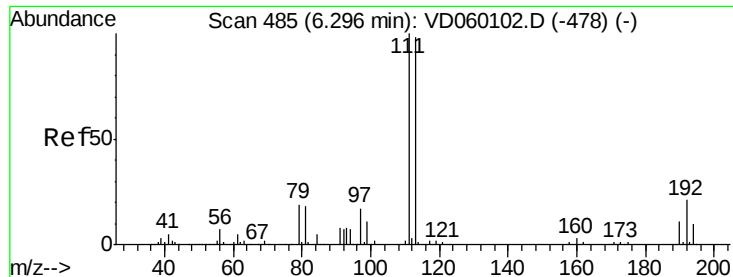
Tot Ion: 65 Resp: 627317  
 Ion Ratio Lower Upper  
 65 100  
 67 54.8 0.0 106.2



#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 7.41 min Scan# 598  
 Delta R.T. -0.01 min  
 Lab File: VD060158.D  
 Acq: 9 Oct 2018 18:35

Tgt Ion: 114 Resp: 1843090  
 Ion Ratio Lower Upper  
 114 100  
 63 17.4 0.0 36.0  
 88 18.3 0.0 36.2

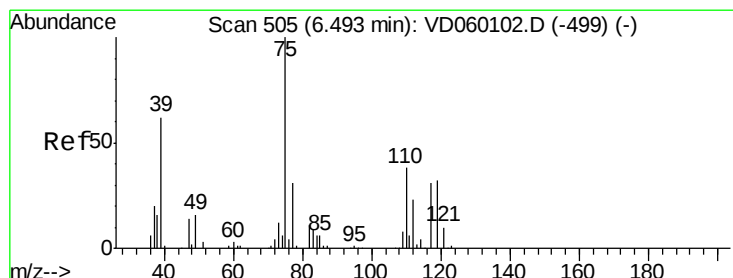
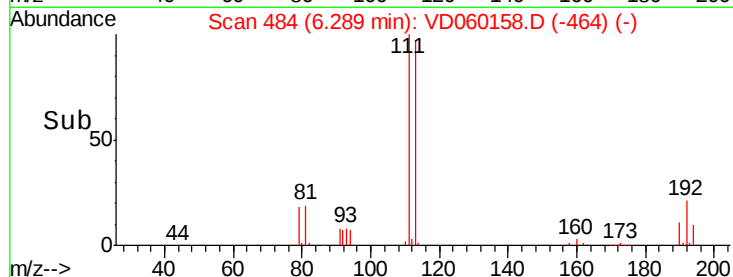
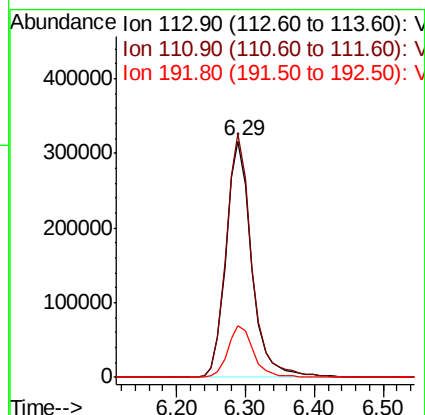
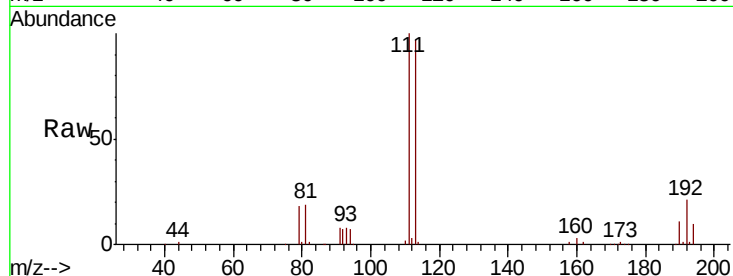




#35  
 Dibromofluoromethane  
 Concen: 50.000 ug/l  
 RT: 6.29 min Scan# 484  
 Delta R.T. -0.01 min  
 Lab File: VD060158.D  
 Acq: 9 Oct 2018 18:35

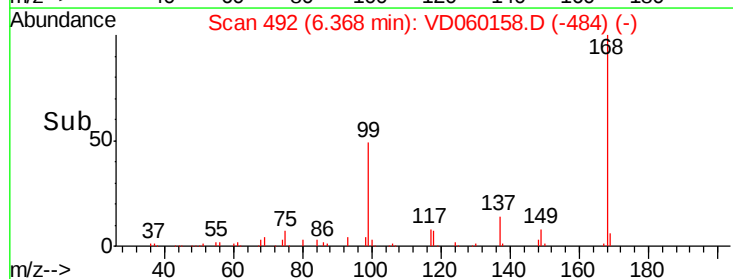
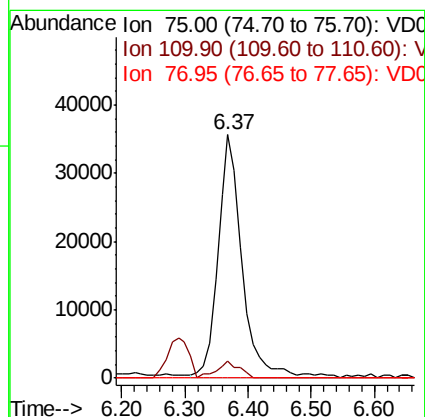
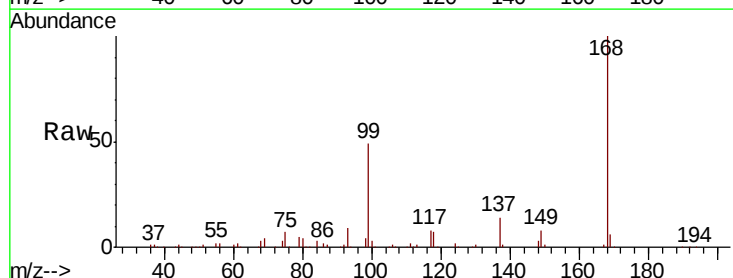
Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 FL-PIT-2

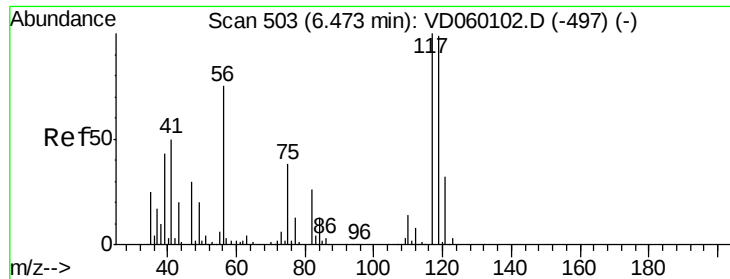
Tot Ion:113 Resp: 812661  
 Ion Ratio Lower Upper  
 113 100  
 111 103.0 81.5 122.3  
 192 21.7 17.4 26.0



#36  
 1,1-Dichloropropene  
 Concen: 5.447 ug/l  
 RT: 6.37 min Scan# 492  
 Delta R.T. -0.12 min  
 Lab File: VD060158.D  
 Acq: 9 Oct 2018 18:35

Tgt Ion: 75 Resp: 95926  
 Ion Ratio Lower Upper  
 75 100  
 110 6.8 19.0 57.0#  
 77 0.0 24.9 37.3#

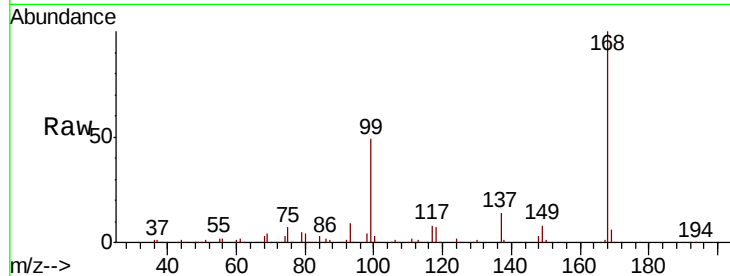




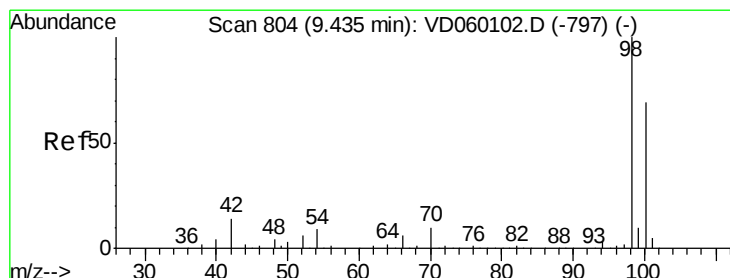
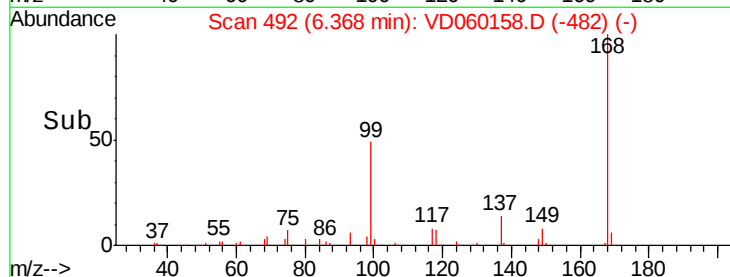
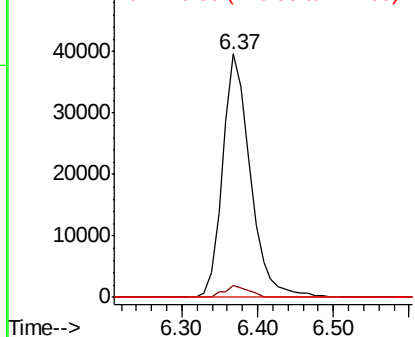
#38  
Carbon Tetrachloride  
Concen: 6.285 ug/l  
RT: 6.37 min Scan# 492  
Delta R.T. -0.10 min  
Lab File: VD060158.D  
Acq: 9 Oct 2018 18:35

Instrument :  
MSVOA\_D  
ClientSampled :  
FL-PIT-2

Tot Ion:117 Resp: 100474  
Ion Ratio Lower Upper  
117 100  
119 4.8 77.8 116.6#  
121 0.0 24.8 37.2#

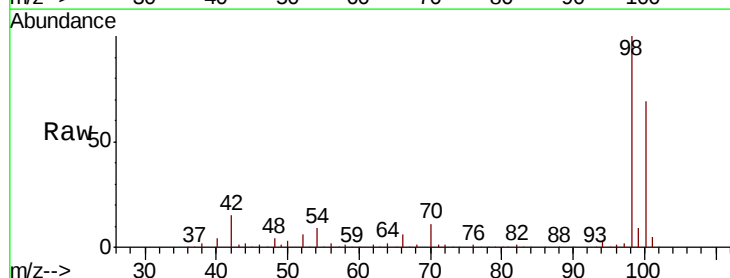


Abundance Ion 116.85 (116.55 to 117.55): V  
Ion 118.85 (118.55 to 119.55): V  
Ion 120.85 (120.55 to 121.55): V

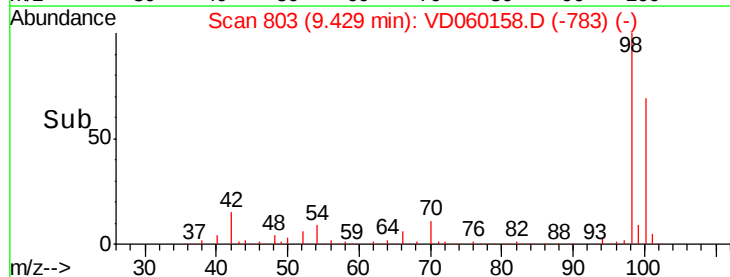
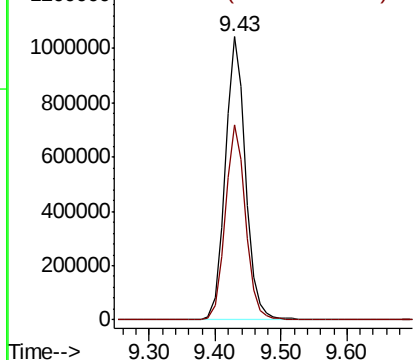


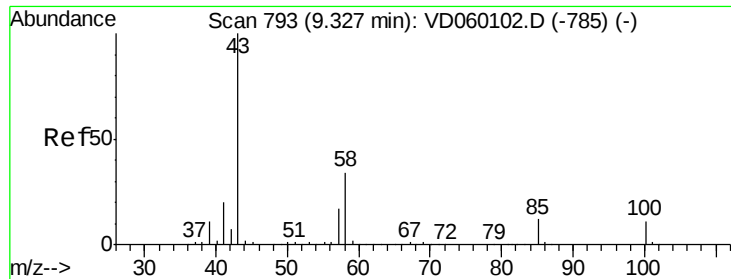
#50  
Toluene-d8  
Concen: N.D. ug/l  
RT: 9.43 min Scan# 803  
Delta R.T. -0.01 min  
Lab File: VD060158.D  
Acq: 9 Oct 2018 18:35

Tgt Ion: 98 Resp: 2247994  
Ion Ratio Lower Upper  
98 100  
100 68.7 55.4 83.0



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: 1.327 ug/l

RT: 9.43 min Scan# 803

Delta R.T. 0.10 min

Lab File: VD060158.D

Acq: 9 Oct 2018 18:35

Instrument :

MSVOA\_D

ClientSampled :

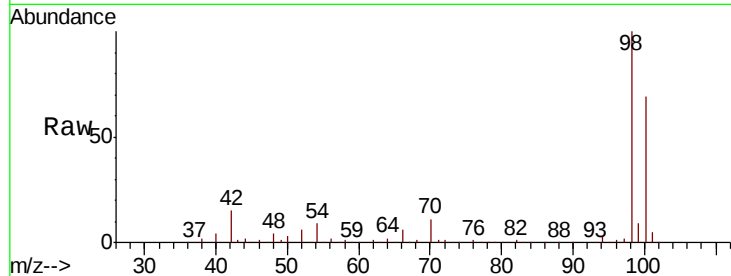
FL-PIT-2

Tot Ion: 43 Resp: 12875

Ion Ratio Lower Upper

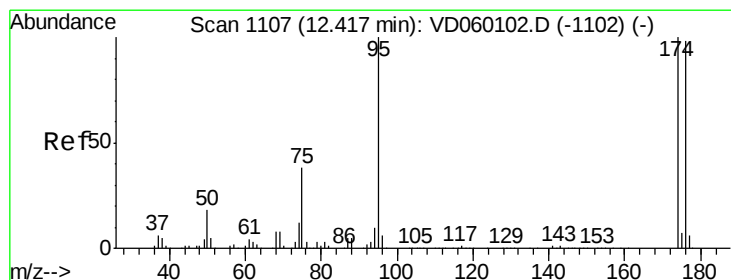
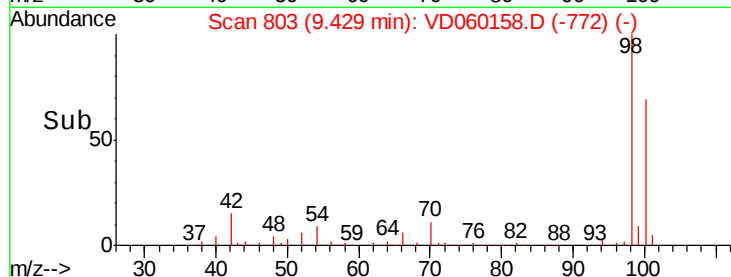
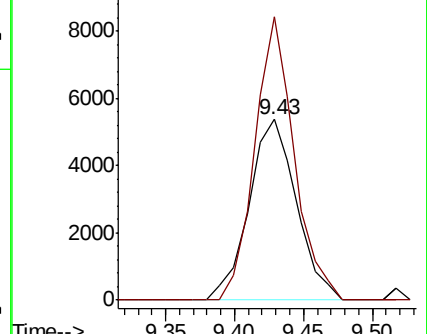
43 100

58 156.6 27.2 40.8#



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: 12.41 min Scan# 1106

Delta R.T. -0.01 min

Lab File: VD060158.D

Acq: 9 Oct 2018 18:35

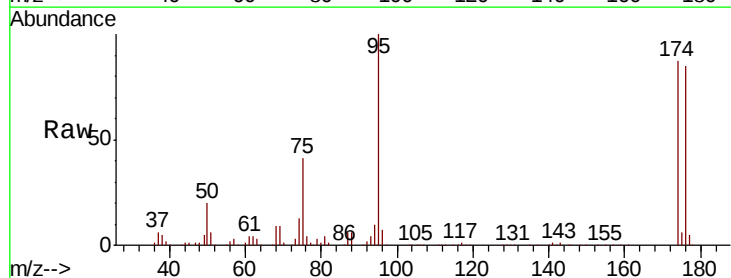
Tgt Ion: 95 Resp: 822880

Ion Ratio Lower Upper

95 100

174 86.6 0.0 200.2

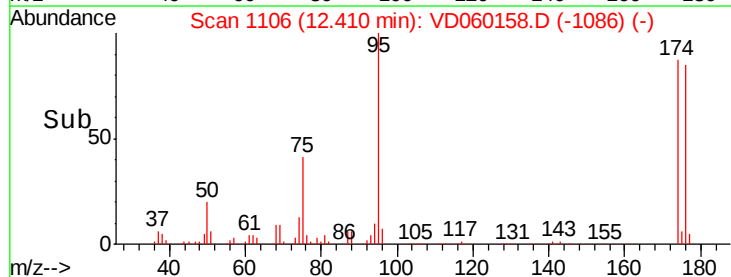
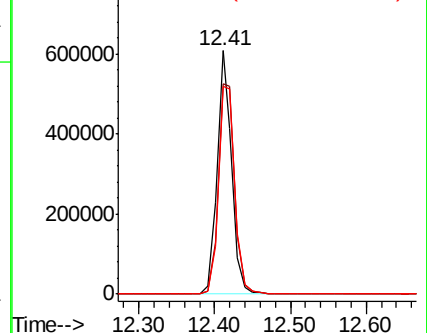
176 85.4 0.0 195.6

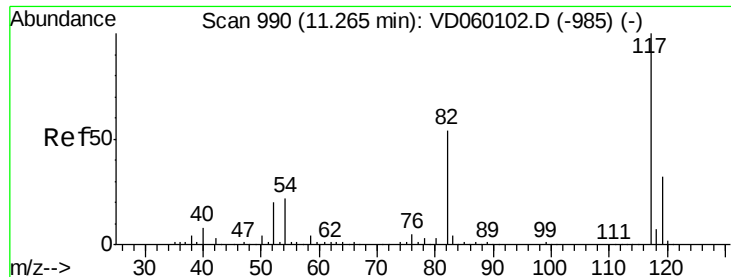


Abundance Ion 95.00 (94.70 to 95.70): VDC

Ion 173.90 (173.60 to 174.60): V

Ion 175.90 (175.60 to 176.60): V

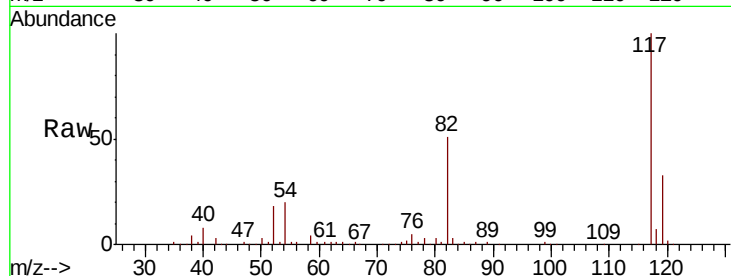




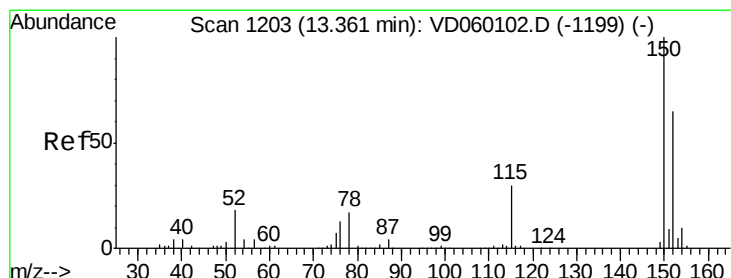
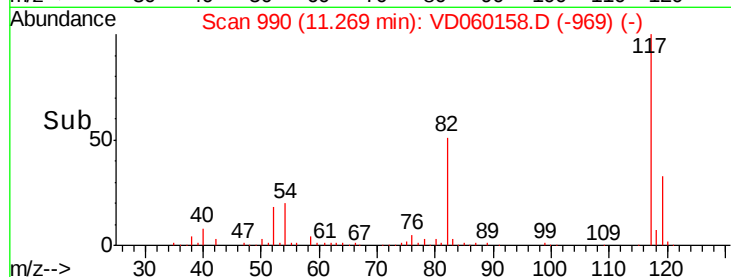
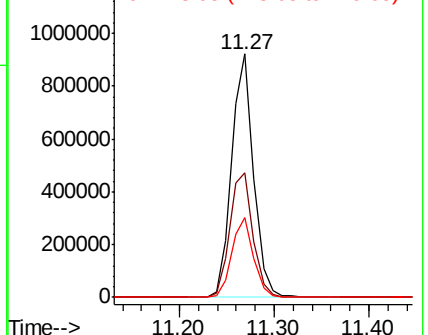
#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.27 min Scan# 990  
Delta R.T. 0.00 min  
Lab File: VD060158.D  
Acq: 9 Oct 2018 18:35

Instrument :  
MSVOA\_D  
ClientSampleId :  
FL-PIT-2

Tot Ion:117 Resp: 1469950  
Ion Ratio Lower Upper  
117 100  
82 51.3 43.4 65.2  
119 32.9 26.0 39.0

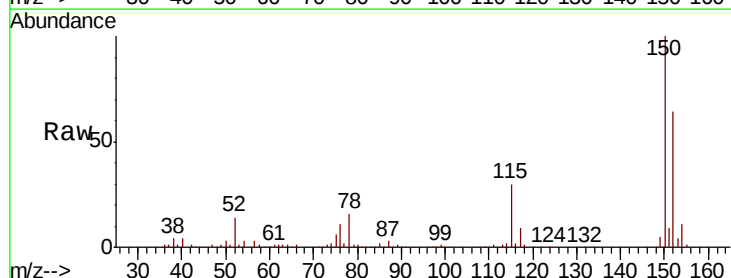


Abundance Ion 116.95 (116.65 to 117.65): V  
Ion 82.05 (81.75 to 82.75): V  
Ion 118.95 (118.65 to 119.65): V

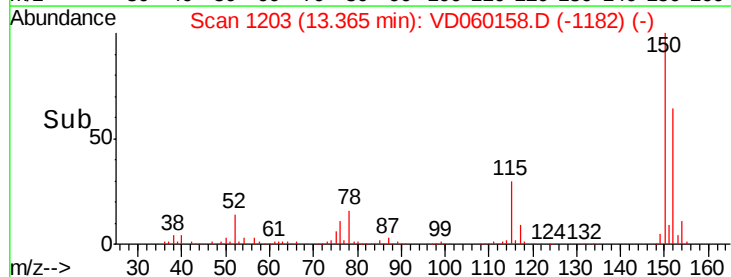
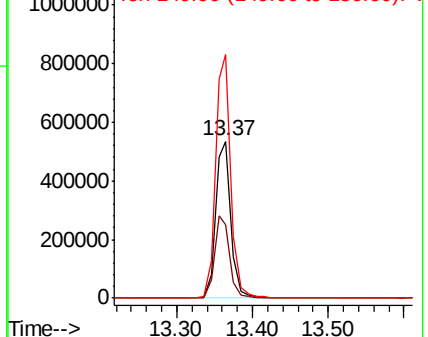


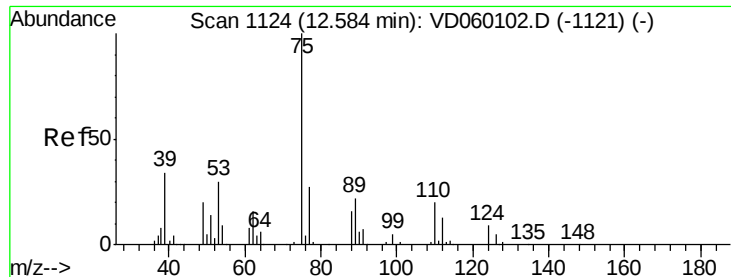
#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.37 min Scan# 1203  
Delta R.T. 0.00 min  
Lab File: VD060158.D  
Acq: 9 Oct 2018 18:35

Tgt Ion:152 Resp: 761736  
Ion Ratio Lower Upper  
152 100  
115 47.0 27.1 81.2  
150 155.1 0.0 311.8



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: 23.594 ug/l

RT: 12.41 min Scan# 1106

Delta R.T. -0.17 min

Lab File: VD060158.D

Acq: 9 Oct 2018 18:35

Instrument :

MSVOA\_D

ClientSampled :

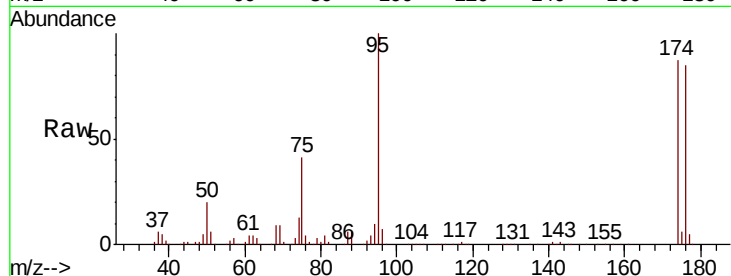
FL-PIT-2

Tot Ion: 75 Resp: 258827

Ion Ratio Lower Upper

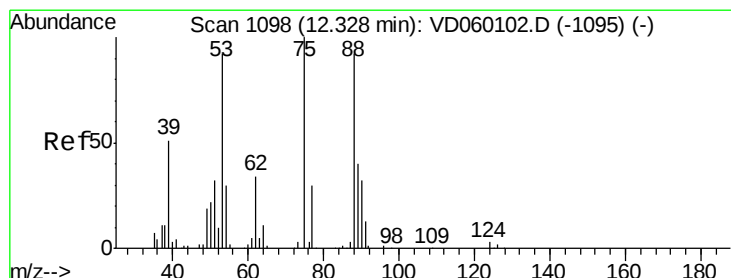
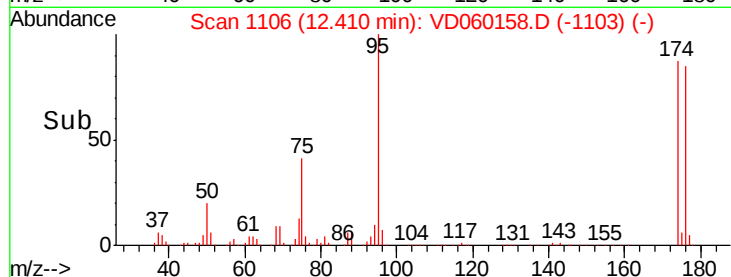
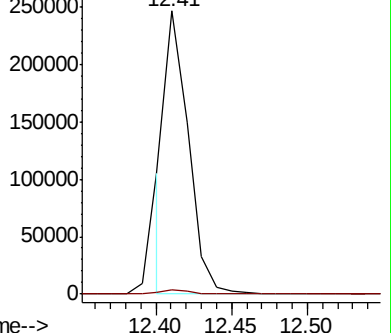
75 100

77 1.4 16.3 48.9#



Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 76.95 (76.65 to 77.65): VDC



#81

trans-1,4-Dichloro-2-butene

Concen: 106.029 ug/l

RT: 12.41 min Scan# 1106

Delta R.T. 0.08 min

Lab File: VD060158.D

Acq: 9 Oct 2018 18:35

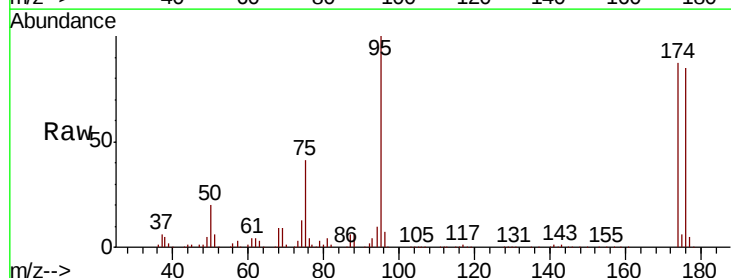
Tgt Ion: 75 Resp: 326826

Ion Ratio Lower Upper

75 100

53 0.0 73.0 109.6#

89 0.0 32.0 48.0#



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

