

Data File : VW011180.D  
Acq On : 09 Jul 2019 15:40  
Operator : SY/VA  
Sample : K3700-02RE  
Misc : 6.87G/5ML/MSVOA\_W/SOIL  
ALS Vial : 12 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
FK-PS-01-052

Quant Time: Jul 10 04:30:54 2019  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\82W070819S.M  
Quant Title : SW846 8260  
QLast Update : Tue Jul 09 07:16:01 2019  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.95  | 168  | 193052   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.84  | 114  | 331889   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.63 | 117  | 282374   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.56 | 152  | 121590   | 50.00 | ug/l  | 0.00     |

System Monitoring Compounds

|                           |        |     |          |       |         |      |
|---------------------------|--------|-----|----------|-------|---------|------|
| 33) 1,2-Dichloroethane-d4 | 8.31   | 65  | 132780   | 54.74 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 109.48% |      |
| 35) Dibromofluoromethane  | 7.88   | 113 | 101308   | 51.21 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 102.42% |      |
| 50) Toluene-d8            | 10.32  | 98  | 408834   | 51.13 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 102.26% |      |
| 62) 4-Bromofluorobenzene  | 12.62  | 95  | 135378   | 46.19 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 92.38%  |      |

Target Compounds

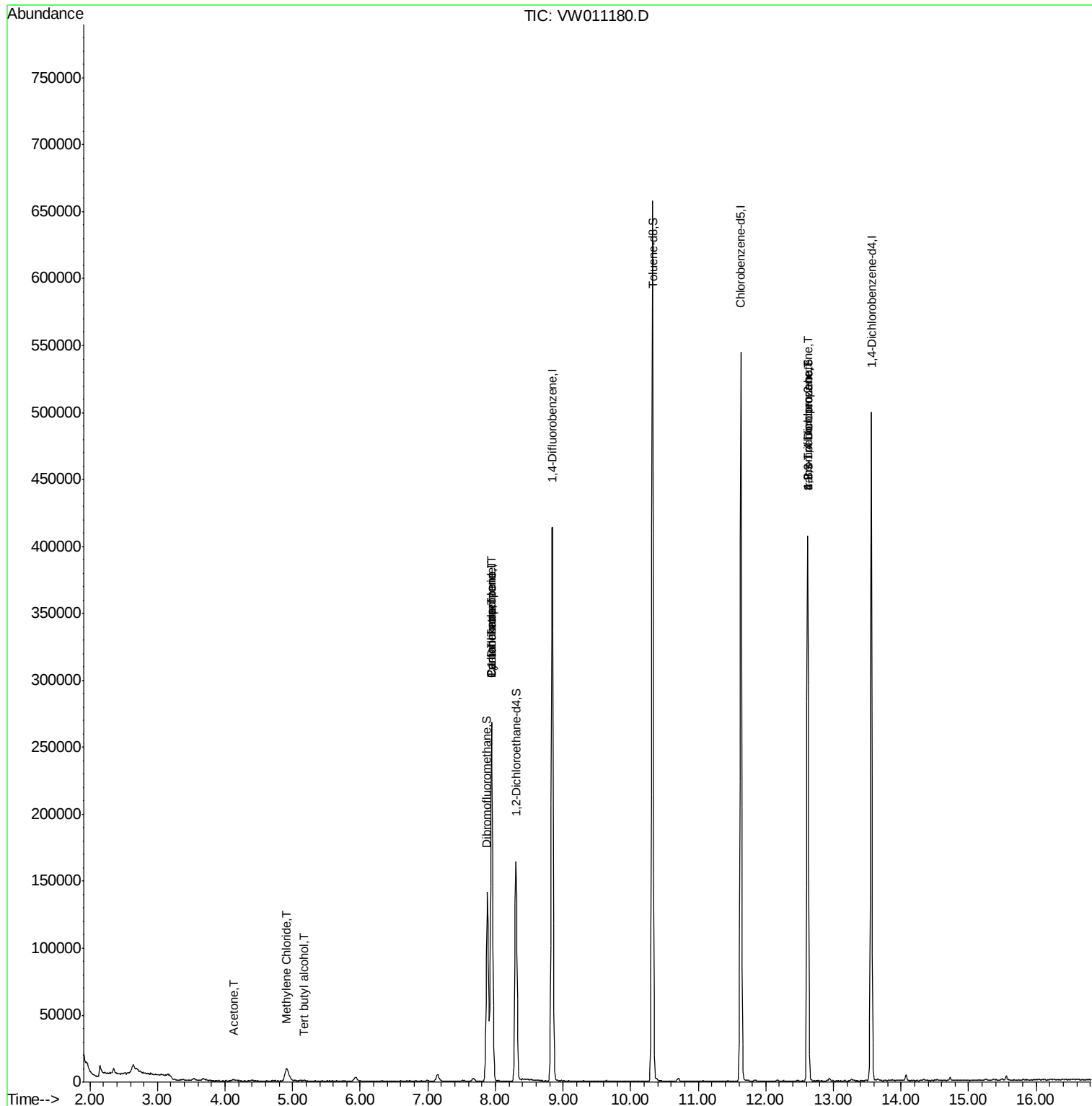
|                                |       |     |       |           |        | Qvalue |
|--------------------------------|-------|-----|-------|-----------|--------|--------|
| 11) Tert butyl alcohol         | 5.17  | 59  | 336   | 1.871     | ug/l # | 70     |
| 16) Acetone                    | 4.14  | 43  | 1461  | 2.503     | ug/l   | 96     |
| 18) Methyl Acetate             | 4.67  | 43  | 547   | Below Cal | #      | 57     |
| 20) Methylene Chloride         | 4.92  | 84  | 7955  | 3.455     | ug/l   | 84     |
| 31) Cyclohexane                | 7.95  | 56  | 5041  | 1.073     | ug/l # | 1      |
| 36) 1,1-Dichloropropene        | 7.94  | 75  | 17106 | 4.840     | ug/l # | 51     |
| 38) Carbon Tetrachloride       | 7.95  | 117 | 19310 | 6.445     | ug/l # | 15     |
| 76) 1,2,3-Trichloropropane     | 12.62 | 75  | 73913 | 52.602    | ug/l # | 100    |
| 81) trans-1,4-Dichloro-2-buten | 12.62 | 75  | 73913 | 118.976   | ug/l # | 6      |

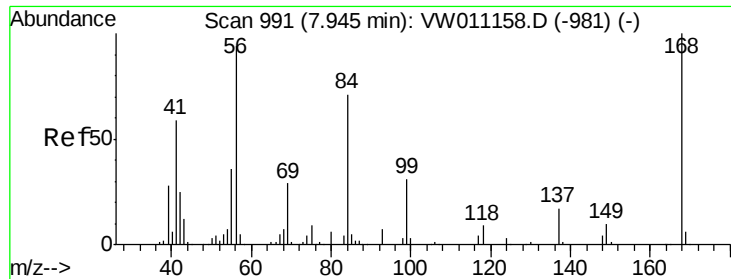
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.95 min Scan# 991

Delta R.T. 0.00 min

Lab File: VW011180.D

Acq: 09 Jul 2019 15:40

Instrument :

MSVOA\_W

ClientSampleId :

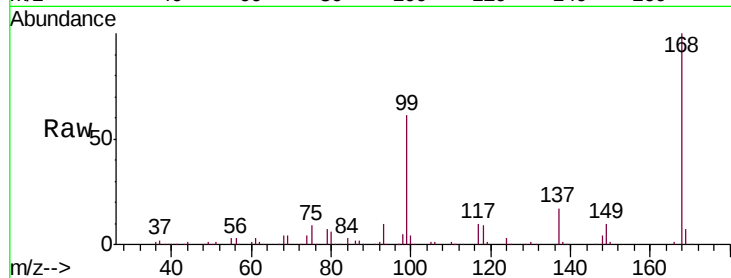
FK-PS-01-052

Tgt Ion:168 Resp: 193052

Ion Ratio Lower Upper

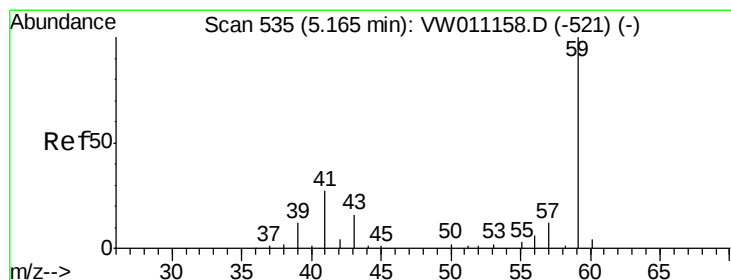
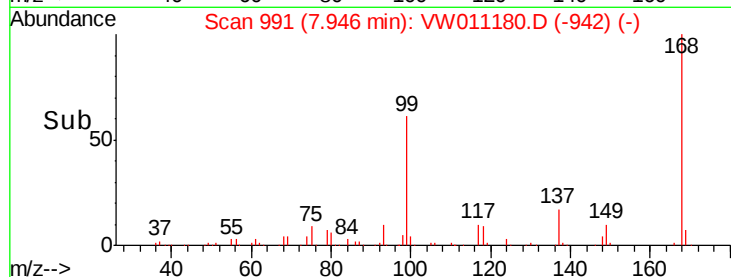
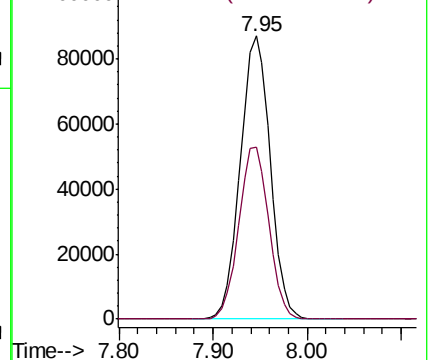
168 100

99 60.8 50.1 75.1



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW



#11

Tert butyl alcohol

Concen: 1.871 ug/l

RT: 5.17 min Scan# 536

Delta R.T. 0.01 min

Lab File: VW011180.D

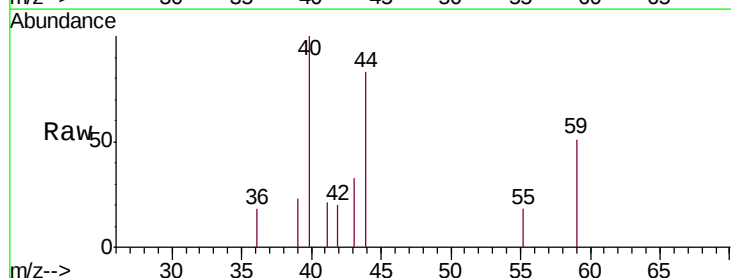
Acq: 09 Jul 2019 15:40

Tgt Ion: 59 Resp: 336

Ion Ratio Lower Upper

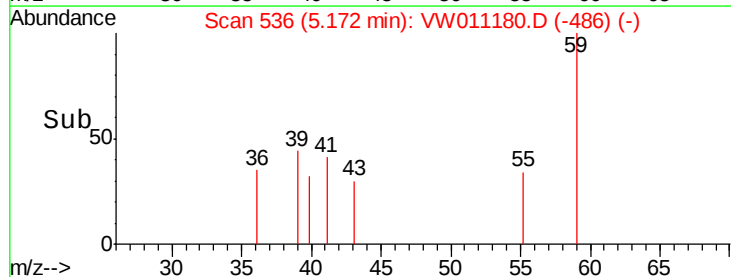
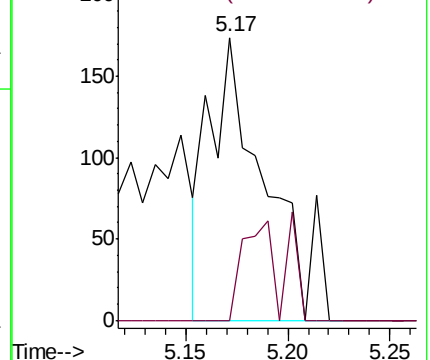
59 100

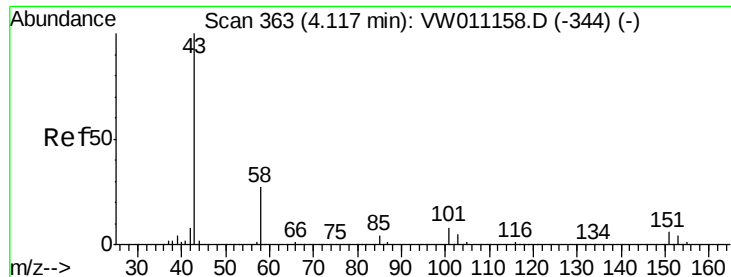
57 0.0 9.0 13.6#



Abundance Ion 59.00 (58.70 to 59.70): VW

Ion 57.00 (56.70 to 57.70): VW





#16

Acetone

Concen: 2.503 ug/l

RT: 4.14 min Scan# 366

Delta R.T. 0.02 min

Lab File: VW011180.D

Acq: 09 Jul 2019 15:40

Instrument :

MSVOA\_W

ClientSampleId :

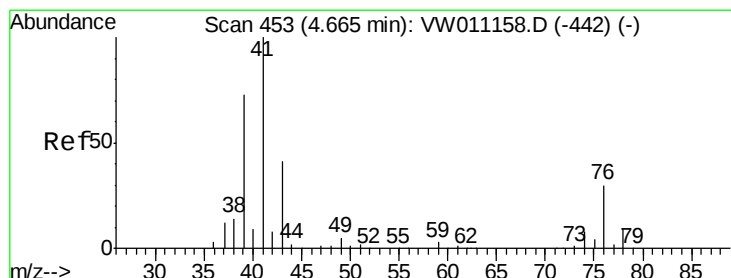
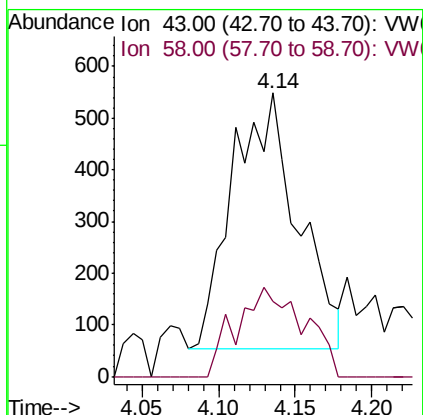
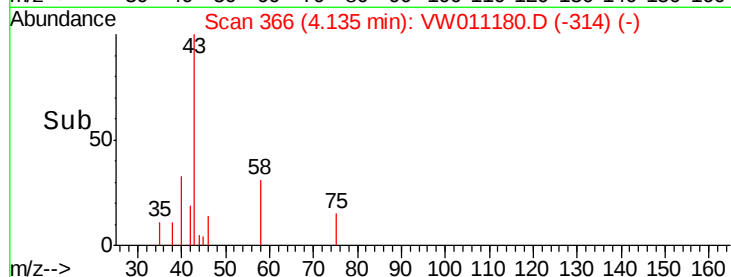
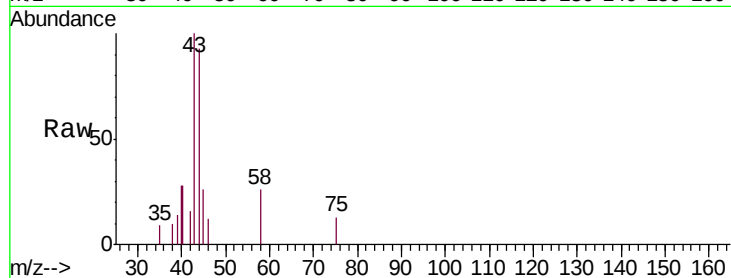
FK-PS-01-052

Tgt Ion: 43 Resp: 1461

Ion Ratio Lower Upper

43 100

58 29.1 21.8 32.6



#18

Methyl Acetate

Concen: Below Cal

RT: 4.67 min Scan# 454

Delta R.T. 0.01 min

Lab File: VW011180.D

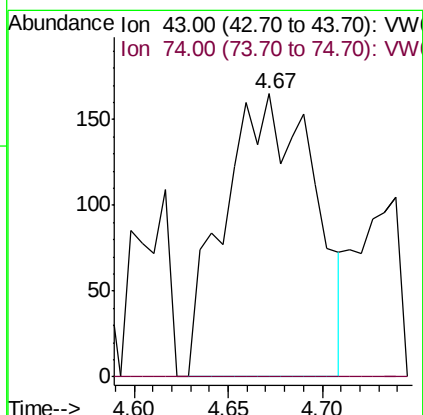
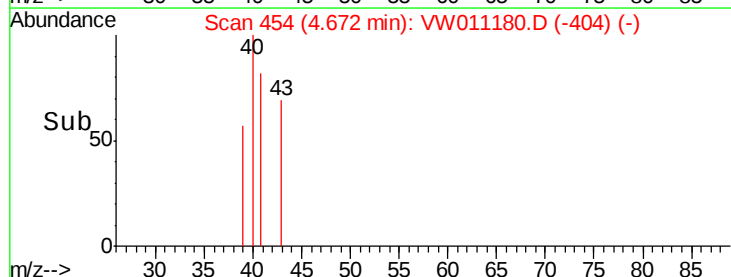
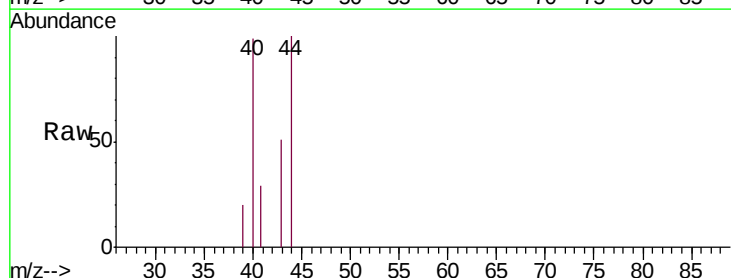
Acq: 09 Jul 2019 15:40

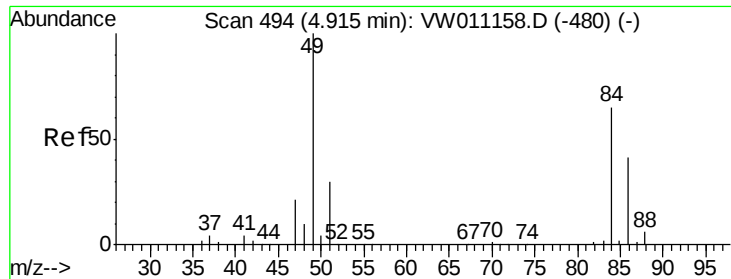
Tgt Ion: 43 Resp: 547

Ion Ratio Lower Upper

43 100

74 0.0 15.7 23.5#

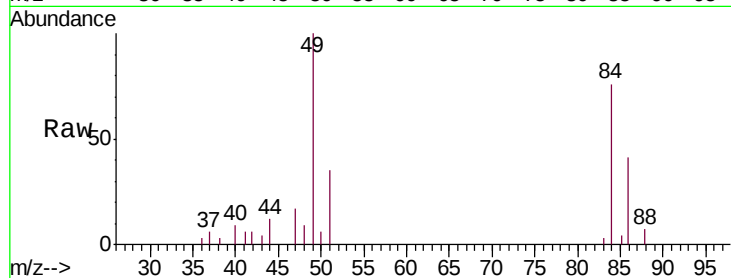




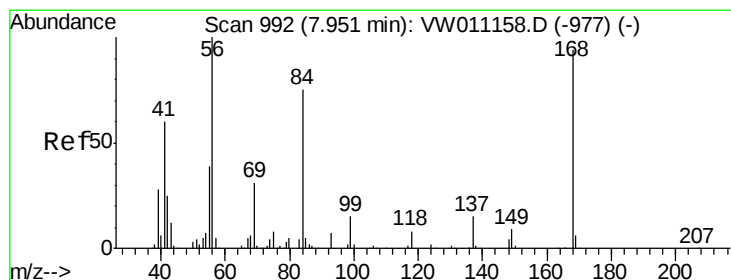
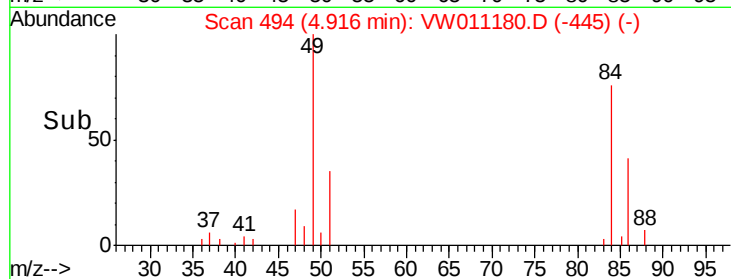
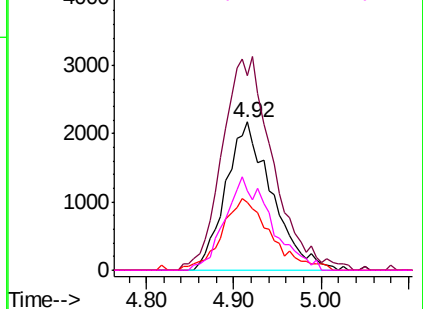
#20  
Methylene Chloride  
Concen: 3.455 ug/l  
RT: 4.92 min Scan# 494  
Delta R.T. 0.00 min  
Lab File: VW011180.D  
Acq: 09 Jul 2019 15:40

Instrument :  
MSVOA\_W  
ClientSampleId :  
FK-PS-01-052

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 84    | Resp: | 7955  |
| Ion      | Ratio | Lower | Upper |
| 84       | 100   |       |       |
| 49       | 127.2 | 123.8 | 185.6 |
| 51       | 46.0  | 37.4  | 56.2  |
| 86       | 53.7  | 51.1  | 76.7  |

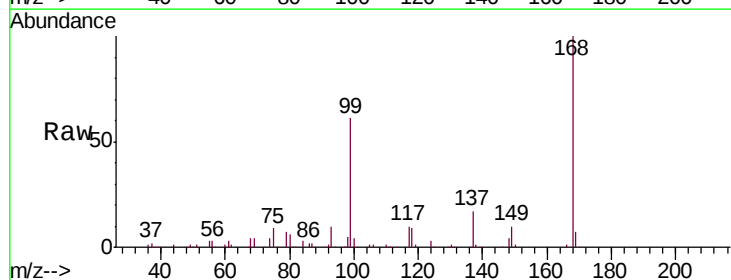


Abundance Ion 83.90 (83.60 to 84.60): VW  
Ion 48.90 (48.60 to 49.60): VW  
Ion 50.90 (50.60 to 51.60): VW  
Ion 85.90 (85.60 to 86.60): VW

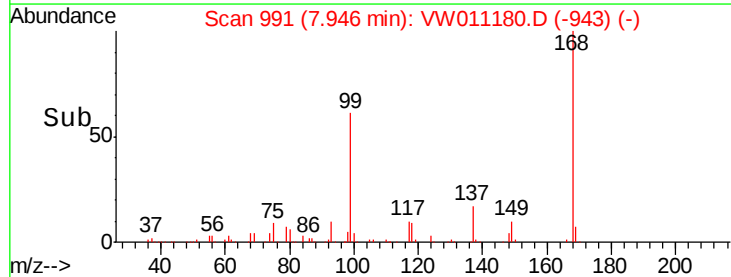
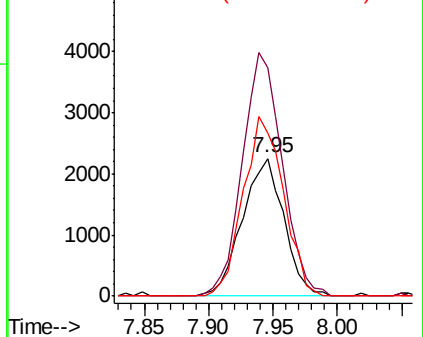


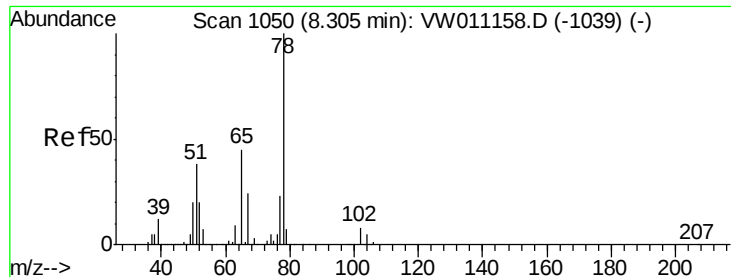
#31  
Cyclohexane  
Concen: 1.073 ug/l  
RT: 7.95 min Scan# 991  
Delta R.T. -0.01 min  
Lab File: VW011180.D  
Acq: 09 Jul 2019 15:40

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 56    | Resp: | 5041  |
| Ion      | Ratio | Lower | Upper |
| 56       | 100   |       |       |
| 69       | 166.3 | 24.6  | 36.8# |
| 84       | 118.6 | 60.1  | 90.1# |



Abundance Ion 56.00 (55.70 to 56.70): VW  
Ion 69.00 (68.70 to 69.70): VW  
Ion 84.00 (83.70 to 84.70): VW





#33

1,2-Dichloroethane-d4

Concen: 54.737 ug/l

RT: 8.31 min Scan# 1050

Delta R.T. 0.00 min

Lab File: VW011180.D

Acq: 09 Jul 2019 15:40

Instrument :

MSVOA\_W

ClientSampleId :

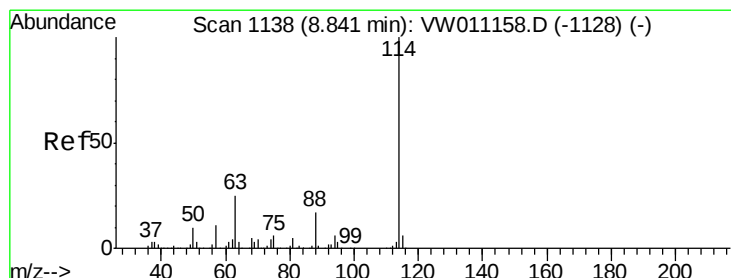
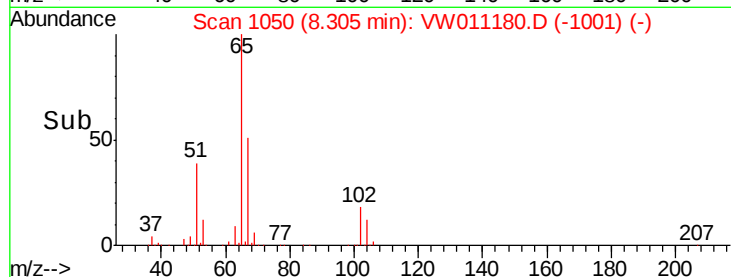
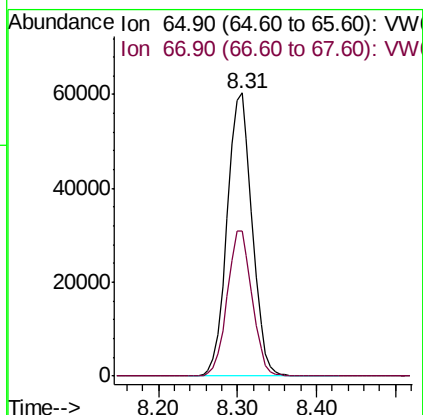
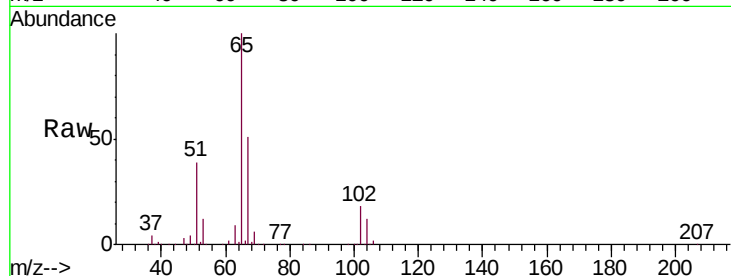
FK-PS-01-052

Tgt Ion: 65 Resp: 132780

Ion Ratio Lower Upper

65 100

67 50.9 0.0 104.4



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.84 min Scan# 1138

Delta R.T. 0.00 min

Lab File: VW011180.D

Acq: 09 Jul 2019 15:40

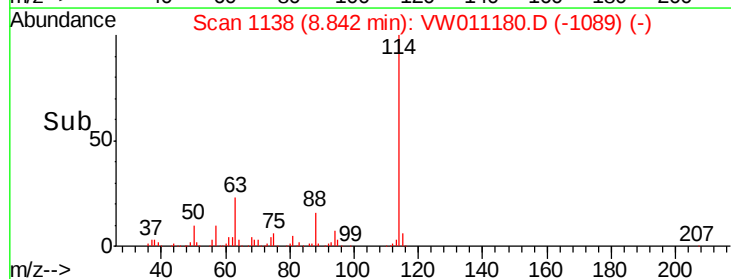
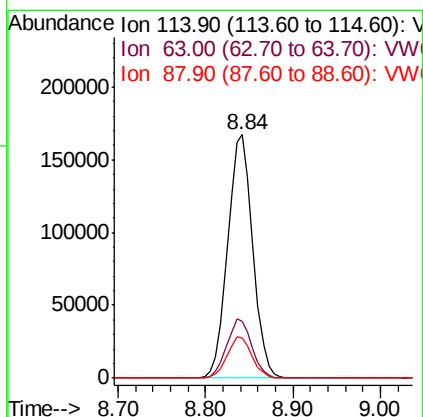
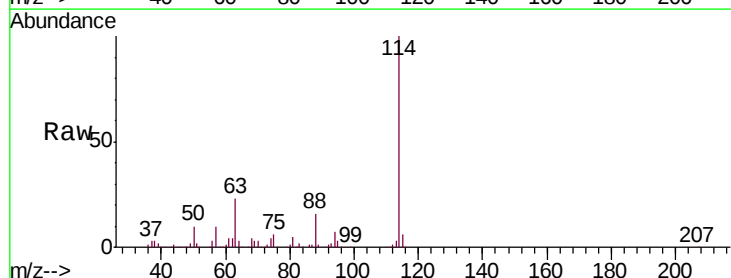
Tgt Ion: 114 Resp: 331889

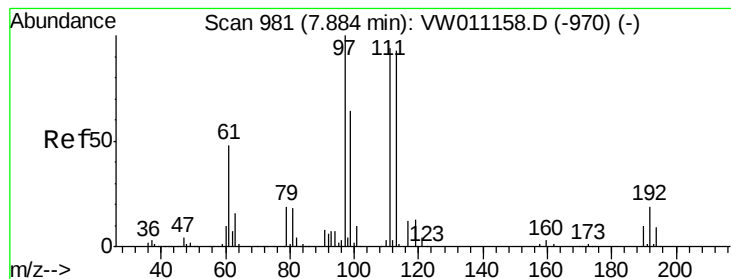
Ion Ratio Lower Upper

114 100

63 23.4 0.0 50.8

88 16.4 0.0 34.2





#35

Dibromofluoromethane

Concen: 51.212 ug/l

RT: 7.88 min Scan# 980

Delta R.T. -0.01 min

Lab File: VW011180.D

Acq: 09 Jul 2019 15:40

Instrument :

MSVOA\_W

ClientSampleId :

FK-PS-01-052

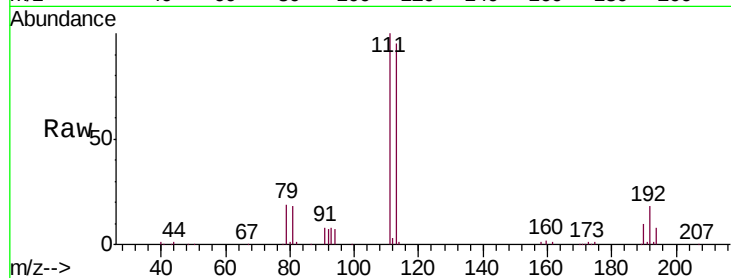
Tgt Ion:113 Resp: 101308

Ion Ratio Lower Upper

113 100

111 102.8 82.4 123.6

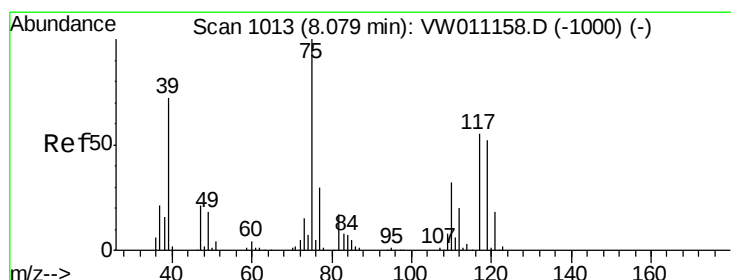
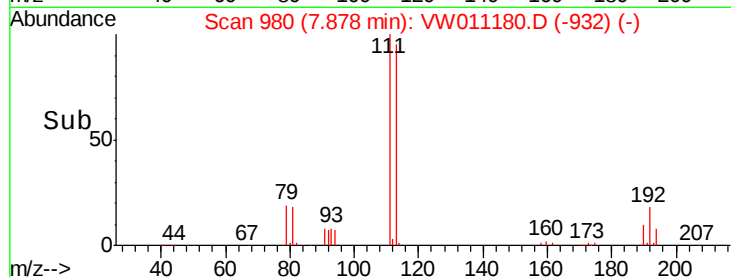
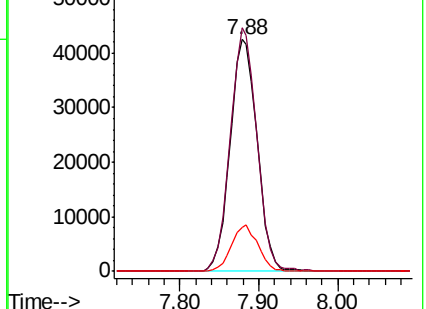
192 19.6 15.8 23.8



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: 4.840 ug/l

RT: 7.94 min Scan# 990

Delta R.T. -0.14 min

Lab File: VW011180.D

Acq: 09 Jul 2019 15:40

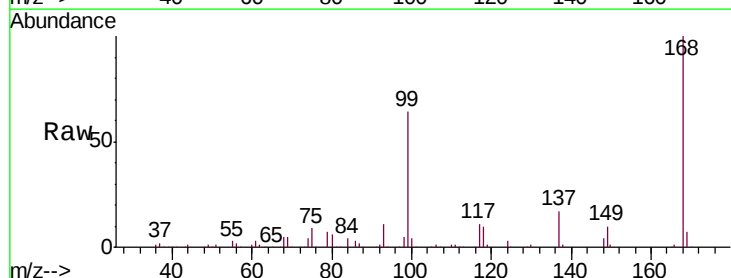
Tgt Ion: 75 Resp: 17106

Ion Ratio Lower Upper

75 100

110 8.2 15.9 47.6#

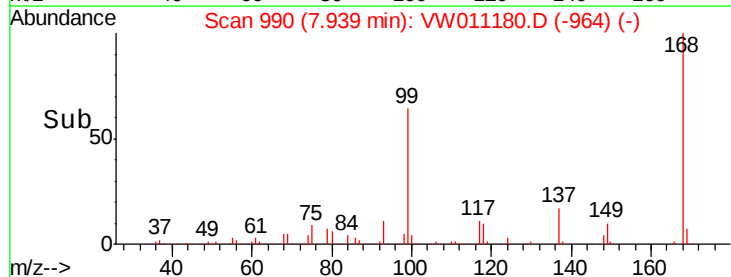
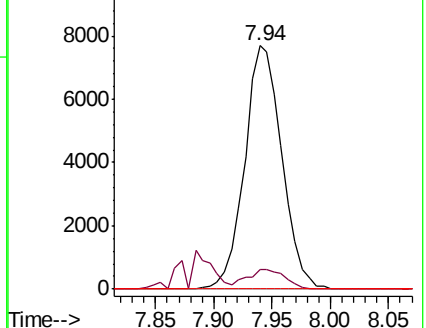
77 0.0 24.6 36.8#

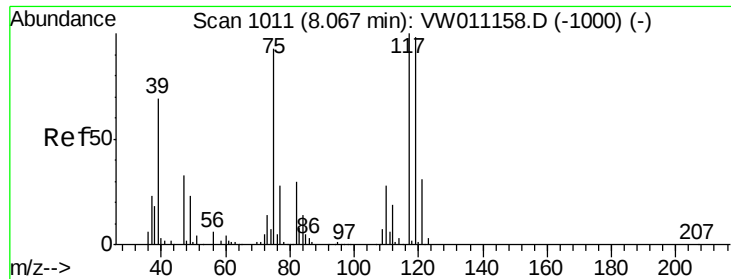


Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VW





#38

Carbon Tetrachloride

Concen: 6.445 ug/l

RT: 7.95 min Scan# 991

Delta R.T. -0.12 min

Lab File: VW011180.D

Acq: 09 Jul 2019 15:40

Instrument :

MSVOA\_W

ClientSampleId :

FK-PS-01-052

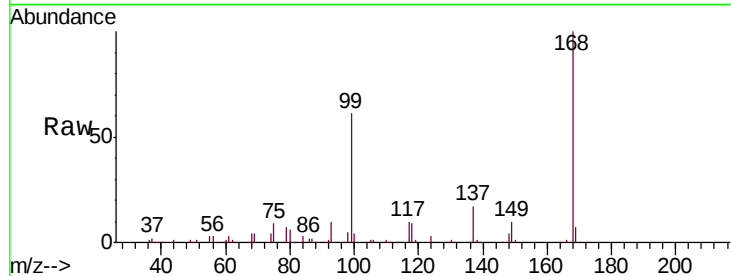
Tgt Ion:117 Resp: 19310

Ion Ratio Lower Upper

117 100

119 5.2 78.1 117.1#

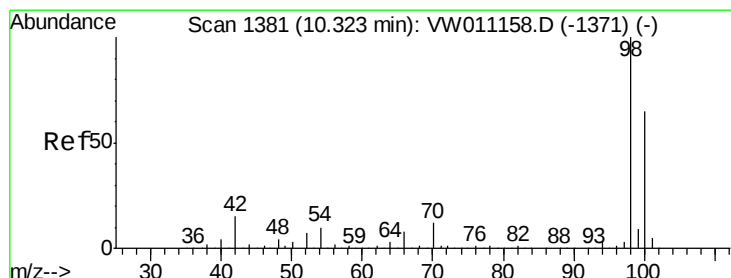
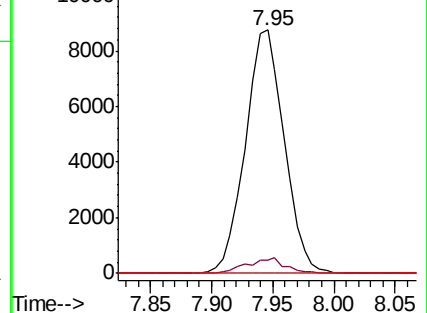
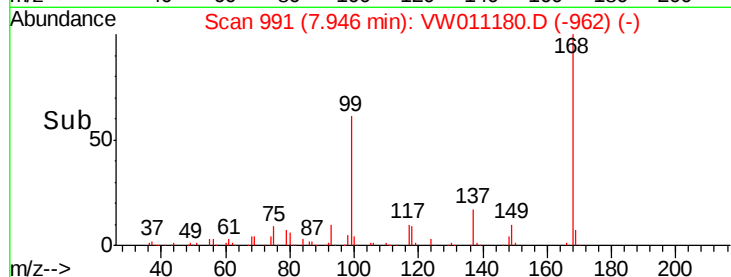
121 0.0 25.1 37.7#



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: 51.129 ug/l

RT: 10.32 min Scan# 1381

Delta R.T. 0.00 min

Lab File: VW011180.D

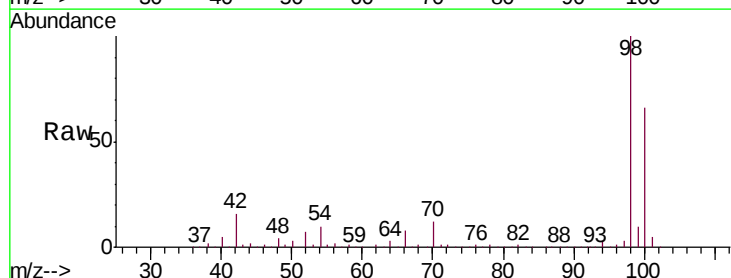
Acq: 09 Jul 2019 15:40

Tgt Ion: 98 Resp: 408834

Ion Ratio Lower Upper

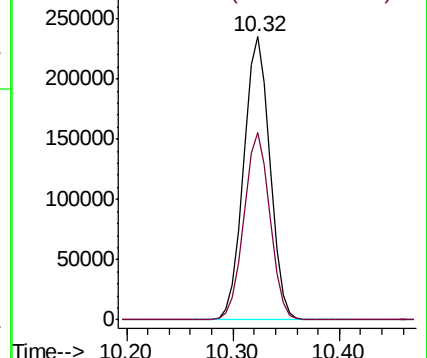
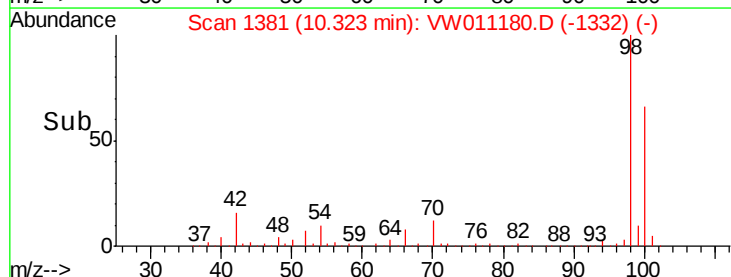
98 100

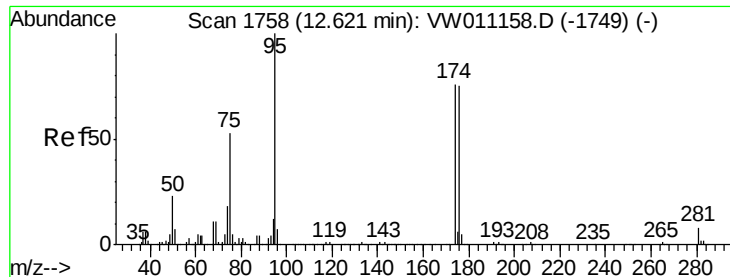
100 65.3 52.4 78.6



Abundance Ion 98.00 (97.70 to 98.70): VW

Ion 100.00 (99.70 to 100.70): V





#62

4-Bromofluorobenzene

Concen: 46.190 ug/l

RT: 12.62 min Scan# 1757

Delta R.T. -0.01 min

Lab File: VW011180.D

Acq: 09 Jul 2019 15:40

Instrument :

MSVOA\_W

ClientSampleId :

FK-PS-01-052

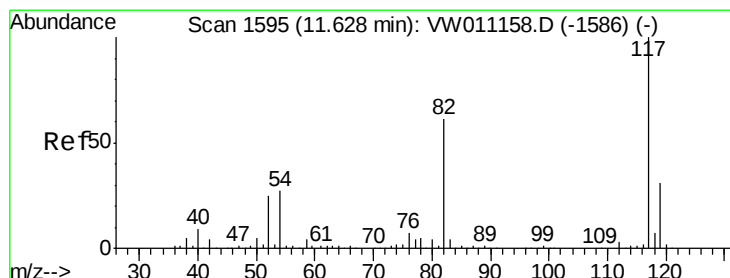
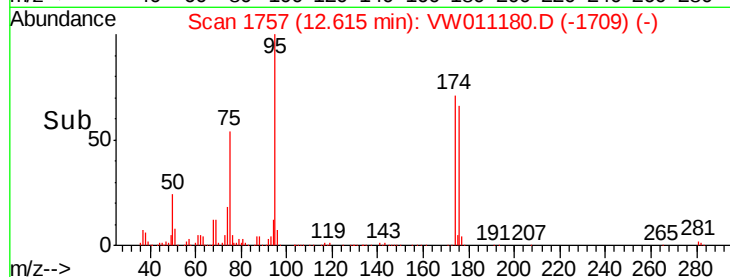
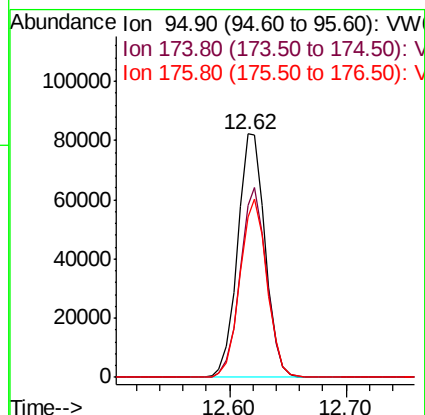
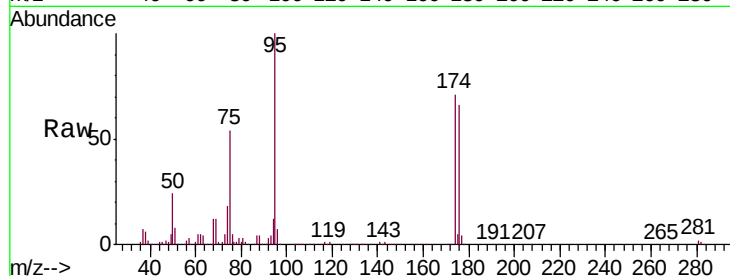
Tgt Ion: 95 Resp: 135378

Ion Ratio Lower Upper

95 100

174 74.9 0.0 147.6

176 71.8 0.0 144.6



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.63 min Scan# 1596

Delta R.T. 0.01 min

Lab File: VW011180.D

Acq: 09 Jul 2019 15:40

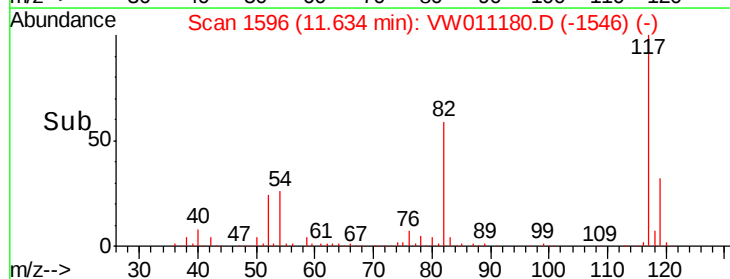
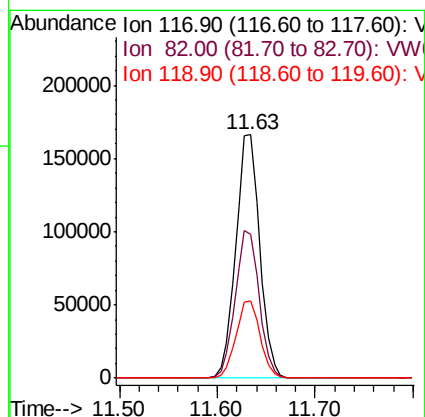
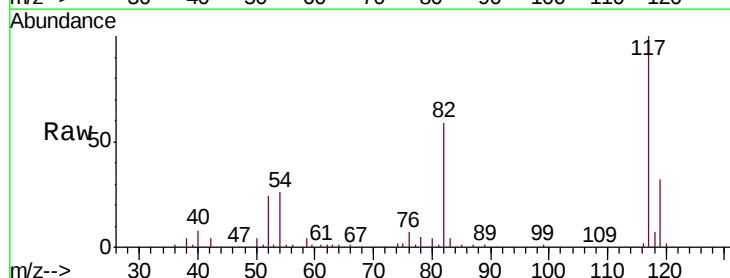
Tgt Ion: 117 Resp: 282374

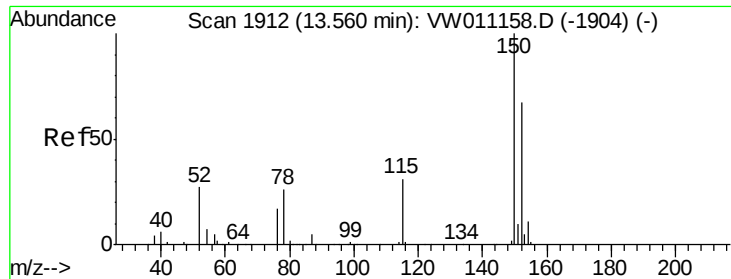
Ion Ratio Lower Upper

117 100

82 58.8 48.9 73.3

119 31.8 25.0 37.6





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.56 min Scan# 1912

Delta R.T. 0.00 min

Lab File: VW011180.D

Acq: 09 Jul 2019 15:40

Instrument :

MSVOA\_W

ClientSampleId :

FK-PS-01-052

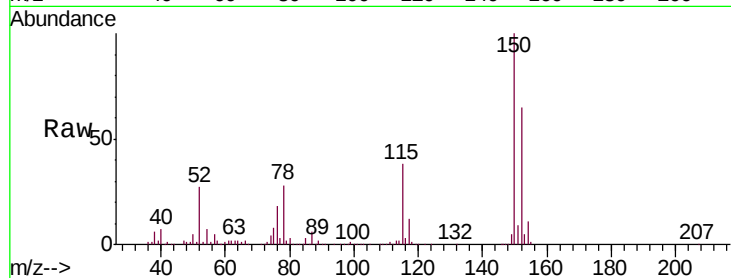
Tgt Ion:152 Resp: 121590

Ion Ratio Lower Upper

152 100

115 59.9 30.1 90.3

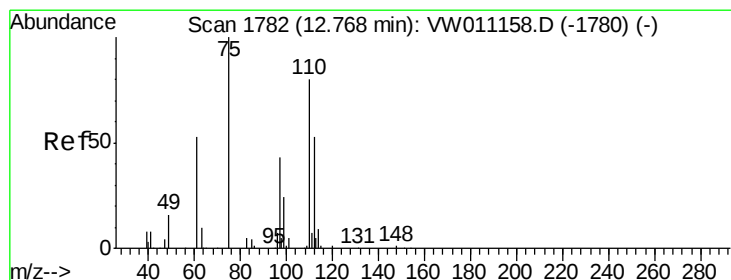
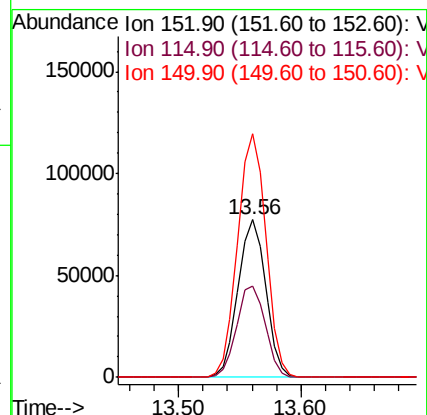
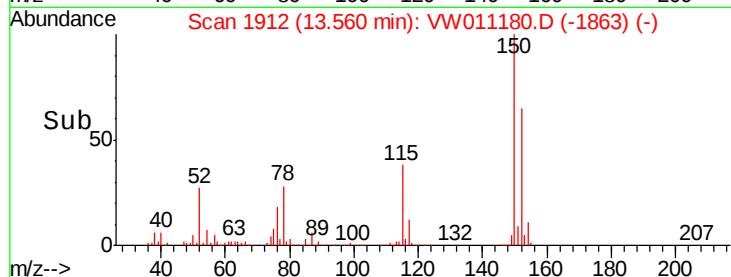
150 157.2 0.0 346.0



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: 52.602 ug/l

RT: 12.62 min Scan# 1757

Delta R.T. -0.15 min

Lab File: VW011180.D

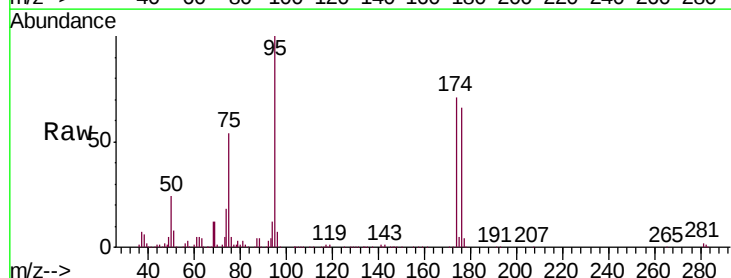
Acq: 09 Jul 2019 15:40

Tgt Ion: 75 Resp: 73913

Ion Ratio Lower Upper

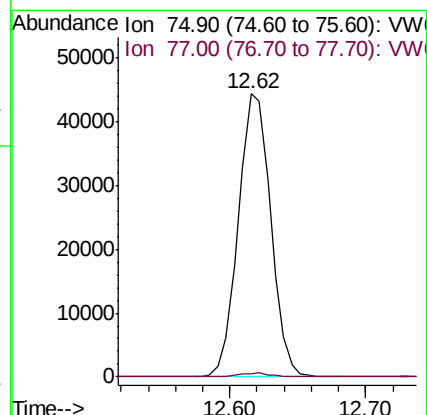
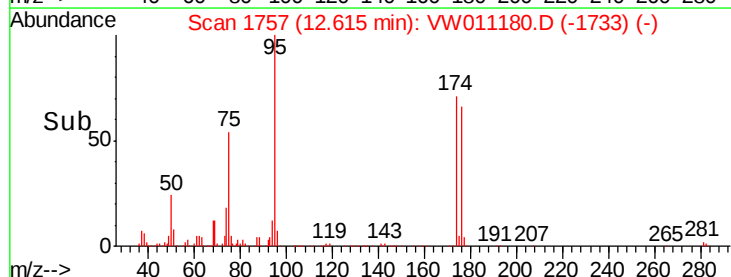
75 100

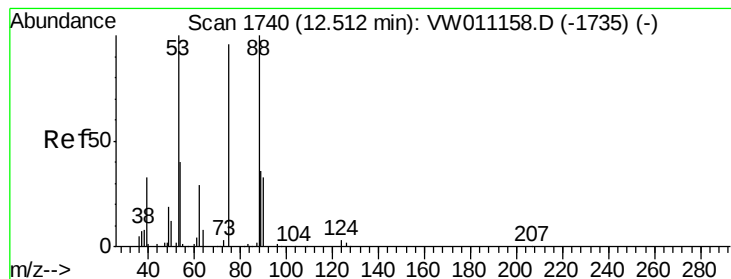
77 1.4 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 77.00 (76.70 to 77.70): VW





#81

trans-1,4-Dichloro-2-butene

Concen: 118.976 ug/l

RT: 12.62 min Scan# 1757

Delta R.T. 0.10 min

Lab File: VW011180.D

Acq: 09 Jul 2019 15:40

Instrument :

MSVOA\_W

ClientSampleId :

FK-PS-01-052

Tgt Ion: 75 Resp: 73913

Ion Ratio Lower Upper

75 100

53 0.1 89.8 134.6#

89 0.0 34.3 51.5#

