

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_W\DATA\VW080619\  
 Data File : VW011715.D  
 Acq On : 05 Aug 2019 17:49  
 Operator : SY/VA  
 Sample : K4136-04RE  
 Misc : 5.16G/5ML/MSVOA\_W/SOIL  
 ALS Vial : 9 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 1S-C3-(0-1)RE

Quant Time: Aug 06 08:04:45 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\82W072719S.M  
 Quant Title : SW846 8260  
 QLast Update : Sat Jul 27 00:23:30 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.95  | 168  | 195311   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.84  | 114  | 329471   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.63 | 117  | 268252   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.56 | 152  | 100367   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds |        |     |          |       |         |      |
|-----------------------------|--------|-----|----------|-------|---------|------|
| 33) 1,2-Dichloroethane-d4   | 8.31   | 65  | 136957   | 61.07 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 122.14% |      |
| 35) Dibromofluoromethane    | 7.88   | 113 | 103840   | 56.18 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 112.36% |      |
| 50) Toluene-d8              | 10.32  | 98  | 396366   | 52.37 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 104.74% |      |
| 62) 4-Bromofluorobenzene    | 12.62  | 95  | 121931   | 45.19 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 90.38%  |      |

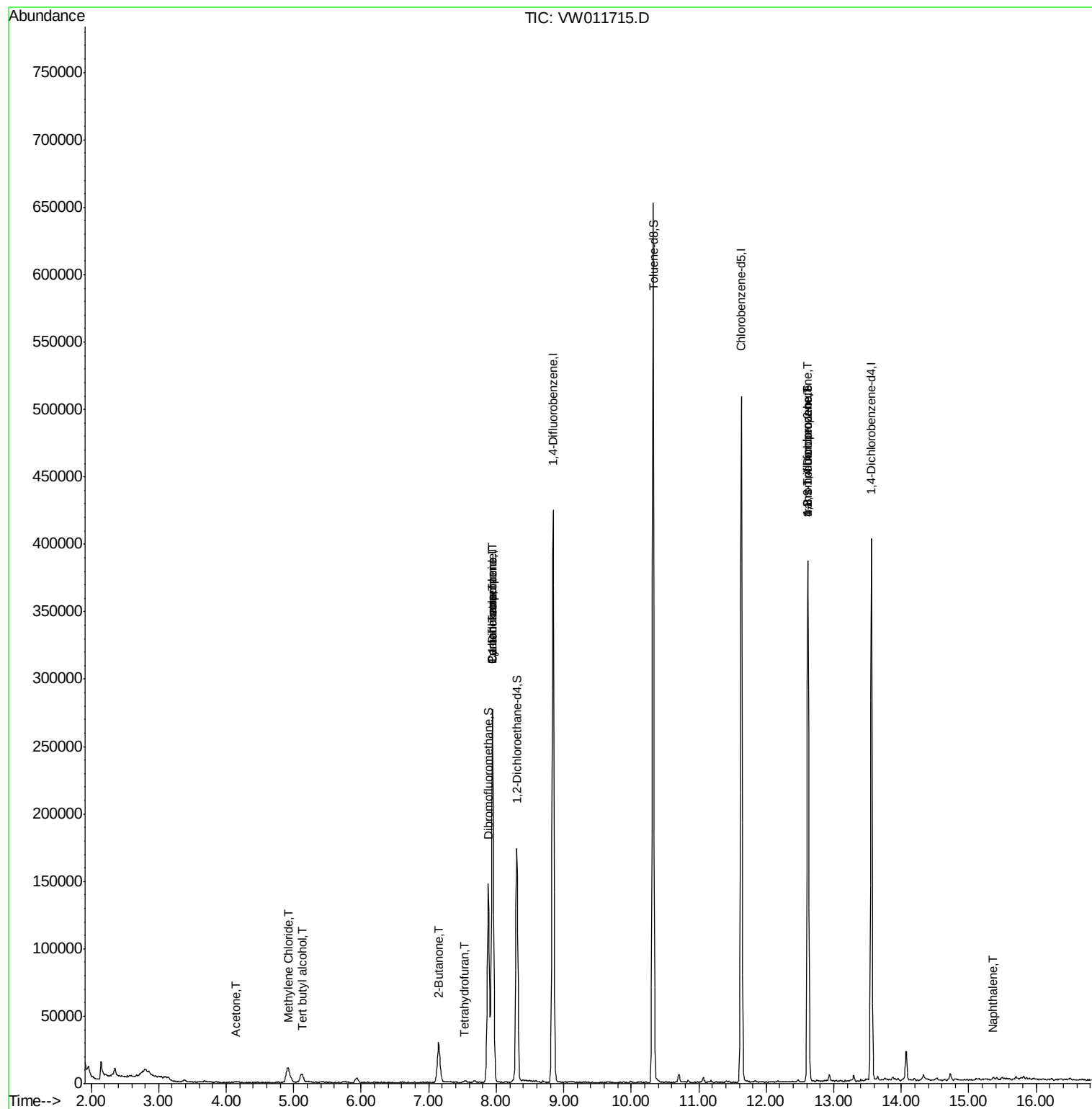
| Target Compounds               |       |     |       |         | Qvalue |     |
|--------------------------------|-------|-----|-------|---------|--------|-----|
| 11) Tert butyl alcohol         | 5.12  | 59  | 5968  | 19.627  | ug/l # | 72  |
| 16) Acetone                    | 4.14  | 43  | 1600  | 2.243   | ug/l # | 76  |
| 20) Methylene Chloride         | 4.92  | 84  | 8417  | 3.421   | ug/l   | 86  |
| 25) 2-Butanone                 | 7.15  | 43  | 2050  | 2.196   | ug/l # | 56  |
| 29) Tetrahydrofuran            | 7.53  | 42  | 1119  | 2.097   | ug/l # | 43  |
| 31) Cyclohexane                | 7.94  | 56  | 4980  | 1.188   | ug/l # | 1   |
| 36) 1,1-Dichloropropene        | 7.95  | 75  | 17212 | 5.024   | ug/l # | 52  |
| 38) Carbon Tetrachloride       | 7.95  | 117 | 20154 | 6.872   | ug/l # | 18  |
| 76) 1,2,3-Trichloropropane     | 12.62 | 75  | 66180 | 62.316  | ug/l # | 100 |
| 81) trans-1,4-Dichloro-2-buten | 12.62 | 75  | 66180 | 143.618 | ug/l # | 6   |
| 95) Naphthalene                | 15.36 | 128 | 1310  | 2.383   | ug/l # | 94  |

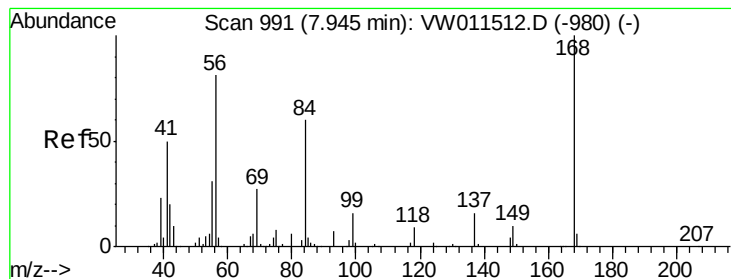
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260  
QLast Update : Sat Jul 27 00:23:30 2019  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.95 min Scan# 991

Delta R.T. 0.00 min

Lab File: VW011715.D

Acq: 05 Aug 2019 17:49

Instrument :

MSVOA\_W

ClientSampleId :

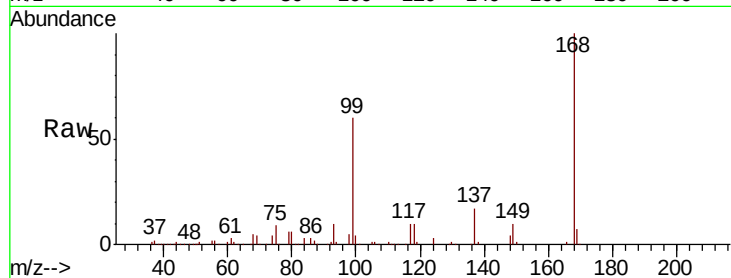
1S-C3-(0-1)RE

Tgt Ion:168 Resp: 195311

Ion Ratio Lower Upper

168 100

99 60.4 48.2 72.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW

7.95

100000

80000

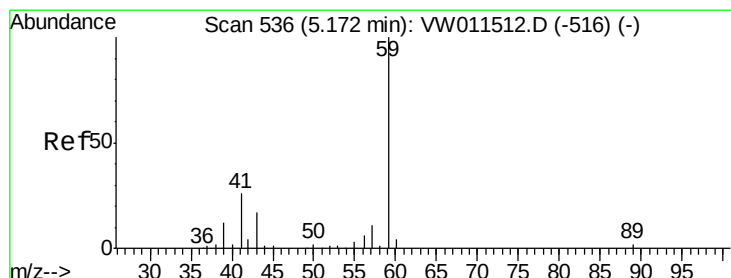
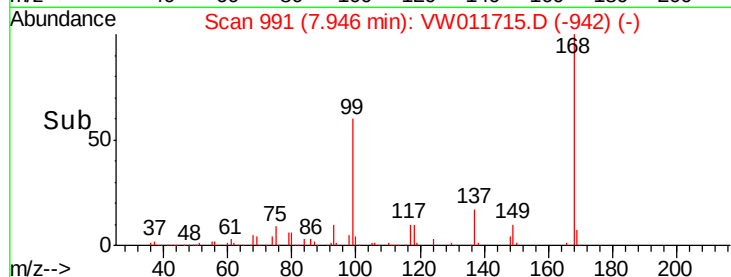
60000

40000

20000

0

Time--> 7.80 7.90 8.00



#11

Tert butyl alcohol

Concen: 19.627 ug/l

RT: 5.12 min Scan# 527

Delta R.T. -0.05 min

Lab File: VW011715.D

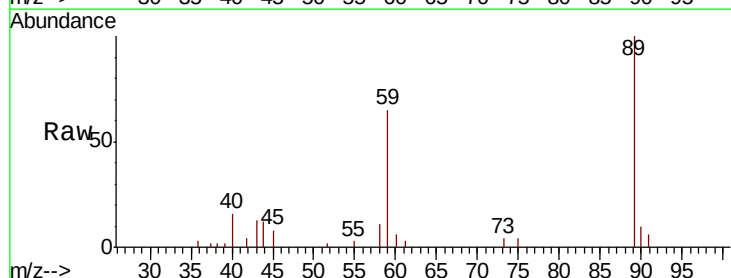
Acq: 05 Aug 2019 17:49

Tgt Ion: 59 Resp: 5968

Ion Ratio Lower Upper

59 100

57 0.0 8.5 12.7#



Abundance Ion 59.00 (58.70 to 59.70): VW

Ion 57.00 (56.70 to 57.70): VW

5.12

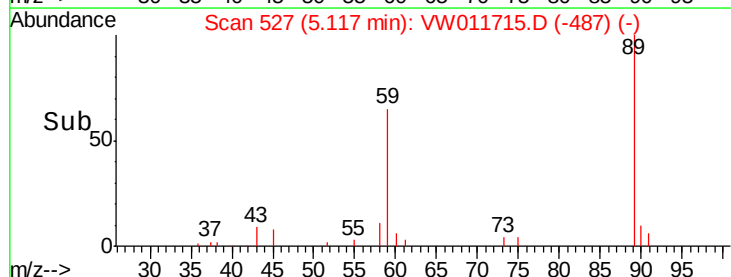
1500

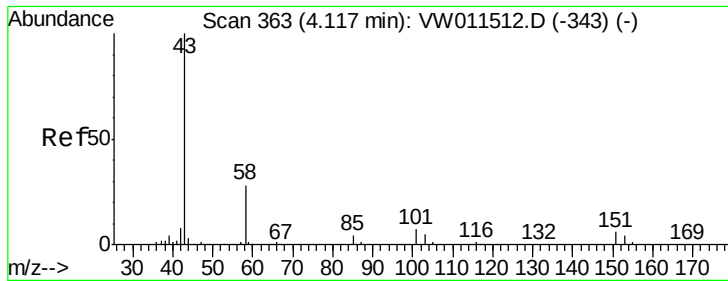
1000

500

0

Time--> 5.00 5.10 5.20

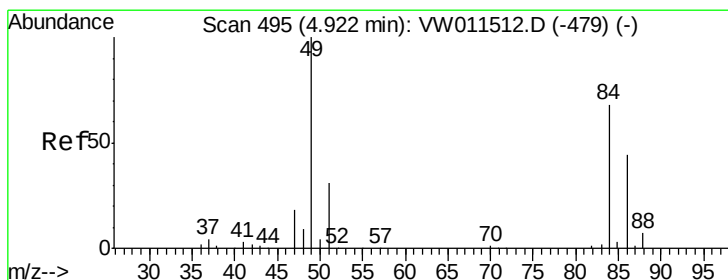
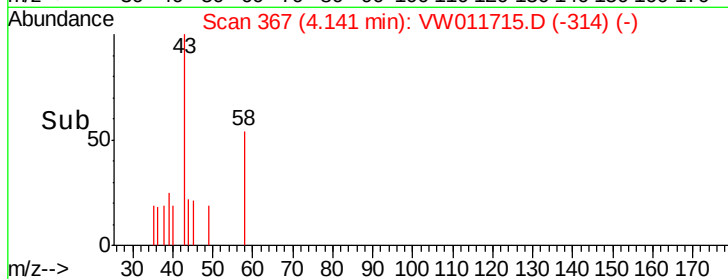
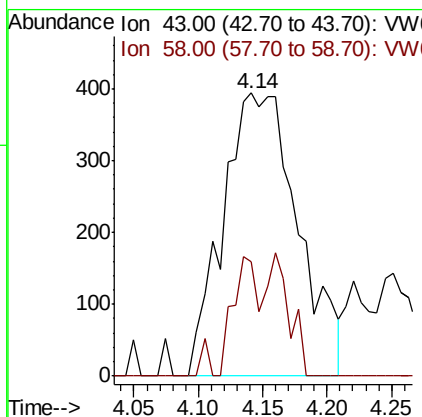
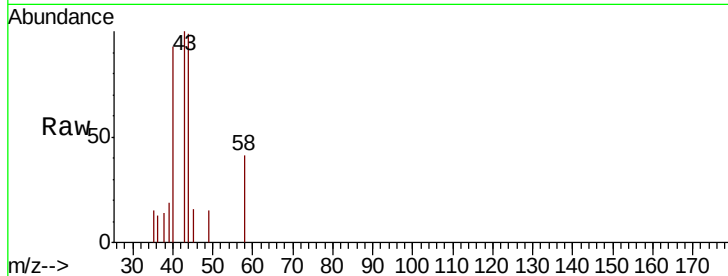




#16  
Acetone  
Concen: 2.243 ug/l  
RT: 4.14 min Scan# 367  
Delta R.T. 0.02 min  
Lab File: VW011715.D  
Acq: 05 Aug 2019 17:49

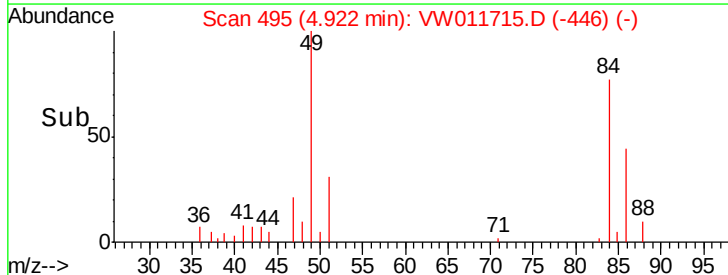
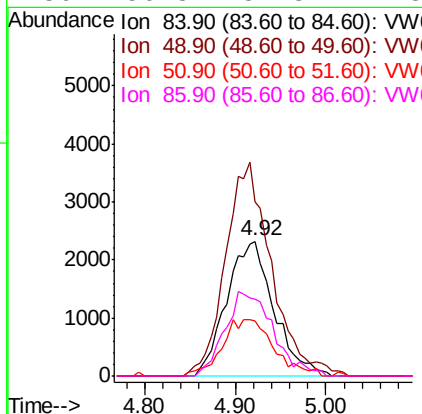
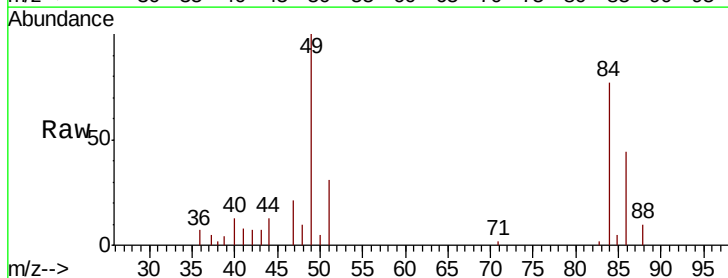
Instrument :  
MSVOA\_W  
ClientSampleId :  
1S-C3-(0-1)RE

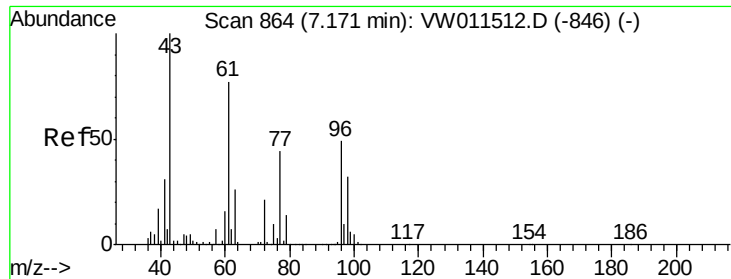
Tgt Ion: 43 Resp: 1600  
Ion Ratio Lower Upper  
43 100  
58 40.6 22.3 33.5#



#20  
Methylene Chloride  
Concen: 3.421 ug/l  
RT: 4.92 min Scan# 495  
Delta R.T. 0.00 min  
Lab File: VW011715.D  
Acq: 05 Aug 2019 17:49

Tgt Ion: 84 Resp: 8417  
Ion Ratio Lower Upper  
84 100  
49 126.7 117.8 176.6  
51 38.3 37.0 55.4  
86 56.8 51.8 77.8

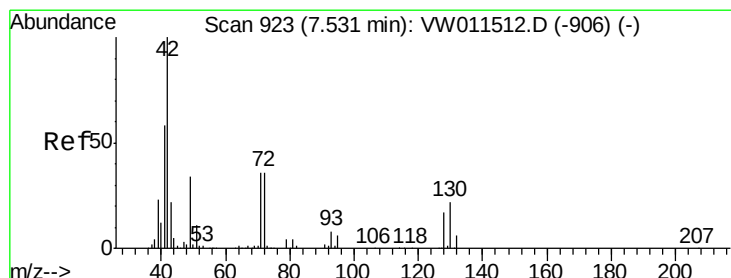
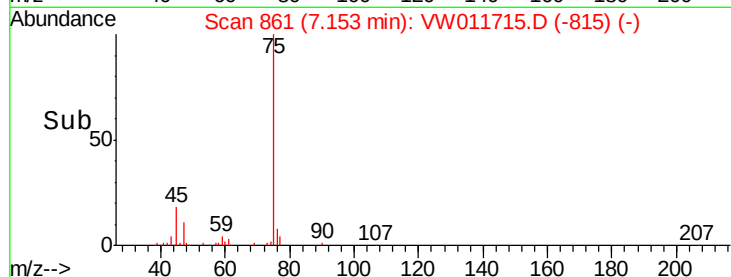
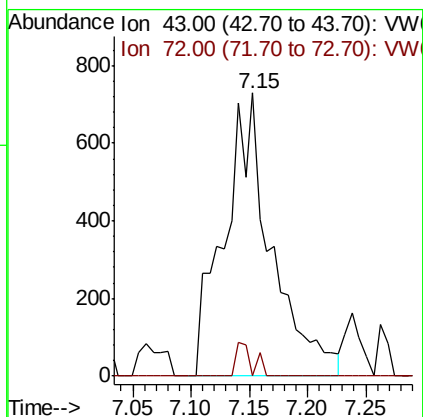
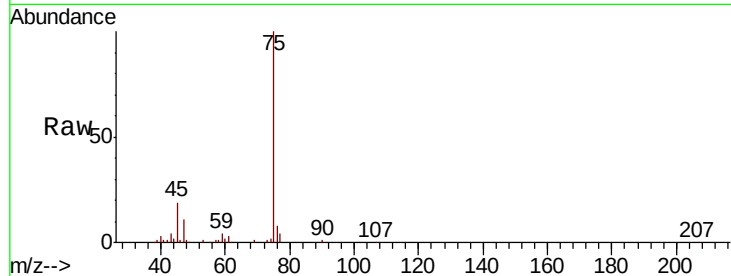




#25  
2-Butanone  
Concen: 2.196 ug/l  
RT: 7.15 min Scan# 861  
Delta R.T. -0.02 min  
Lab File: VW011715.D  
Acq: 05 Aug 2019 17:49

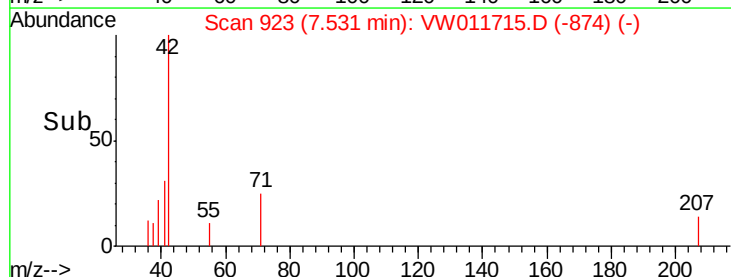
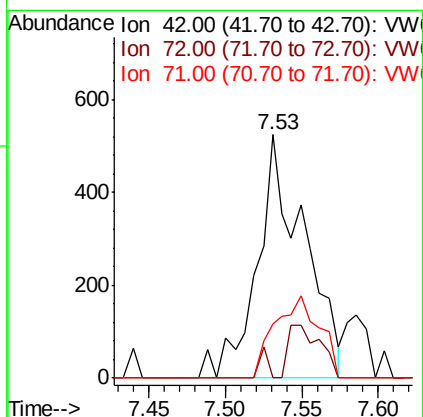
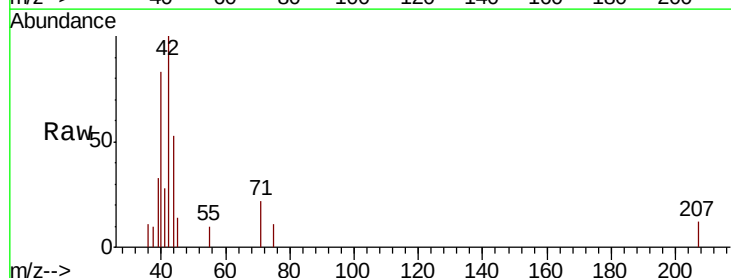
Instrument :  
MSVOA\_W  
ClientSampleId :  
1S-C3-(0-1)RE

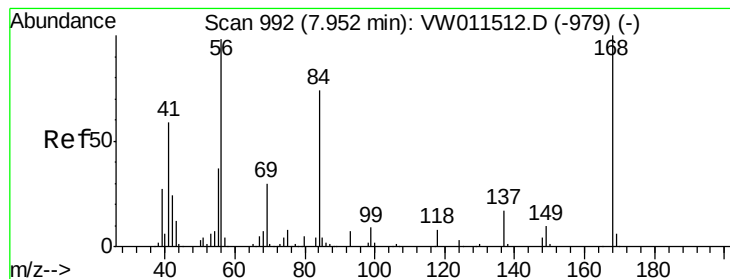
Tgt Ion: 43 Resp: 2050  
Ion Ratio Lower Upper  
43 100  
72 0.0 16.6 24.8#



#29  
Tetrahydrofuran  
Concen: 2.097 ug/l  
RT: 7.53 min Scan# 923  
Delta R.T. 0.00 min  
Lab File: VW011715.D  
Acq: 05 Aug 2019 17:49

Tgt Ion: 42 Resp: 1119  
Ion Ratio Lower Upper  
42 100  
72 2.1 27.1 40.7#  
71 0.0 26.2 39.4#





#31

Cyclohexane

Concen: 1.188 ug/l

RT: 7.94 min Scan# 990

Delta R.T. -0.01 min

Lab File: VW011715.D

Acq: 05 Aug 2019 17:49

Instrument :

MSVOA\_W

ClientSampleId :

1S-C3-(0-1)RE

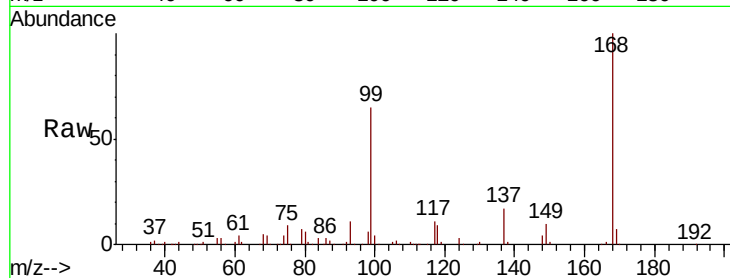
Tgt Ion: 56 Resp: 4980

Ion Ratio Lower Upper

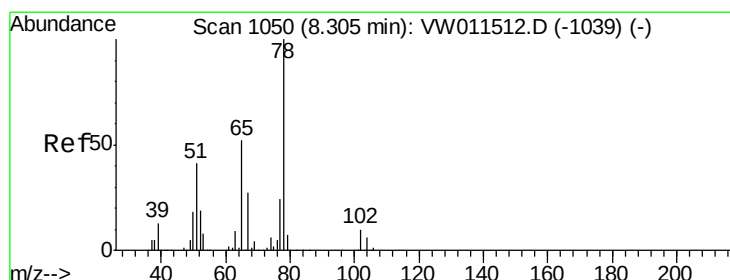
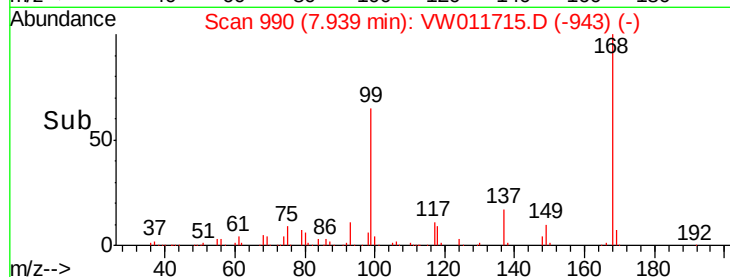
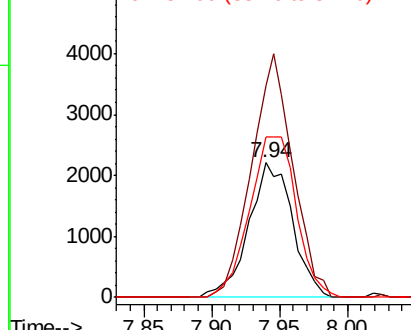
56 100

69 157.2 24.3 36.5#

84 119.4 60.4 90.6#



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: 61.068 ug/l

RT: 8.31 min Scan# 1050

Delta R.T. 0.00 min

Lab File: VW011715.D

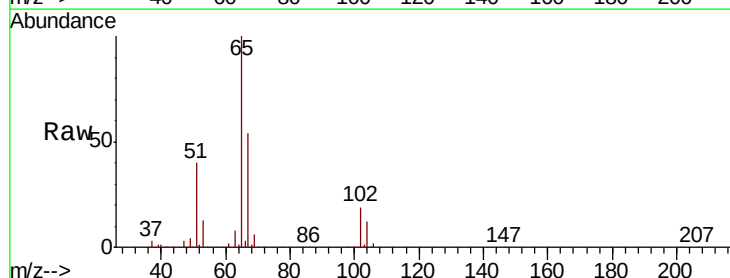
Acq: 05 Aug 2019 17:49

Tgt Ion: 65 Resp: 136957

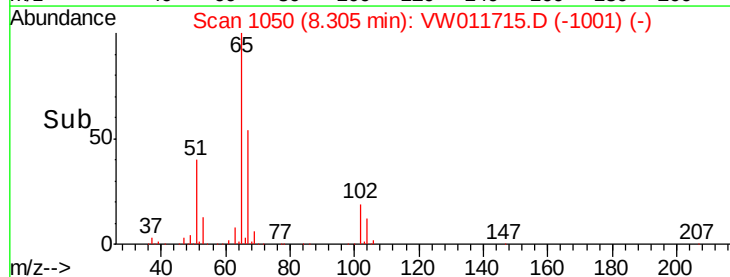
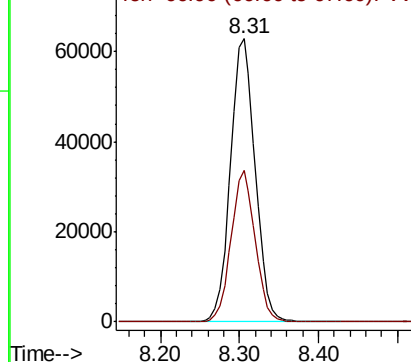
Ion Ratio Lower Upper

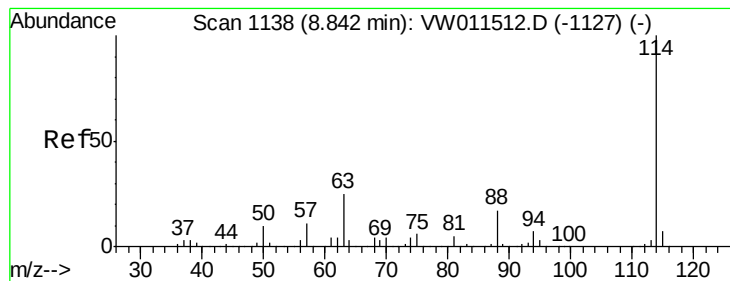
65 100

67 52.2 0.0 105.2



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





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.84 min Scan# 1138

Delta R.T. 0.00 min

Lab File: VW011715.D

Acq: 05 Aug 2019 17:49

Instrument :

MSVOA\_W

ClientSampleId :

1S-C3-(0-1)RE

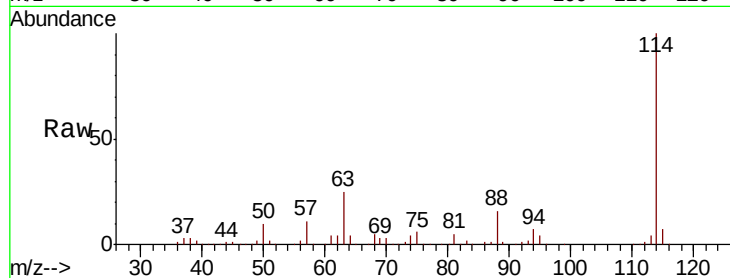
Tgt Ion:114 Resp: 329471

Ion Ratio Lower Upper

114 100

63 24.6 0.0 49.2

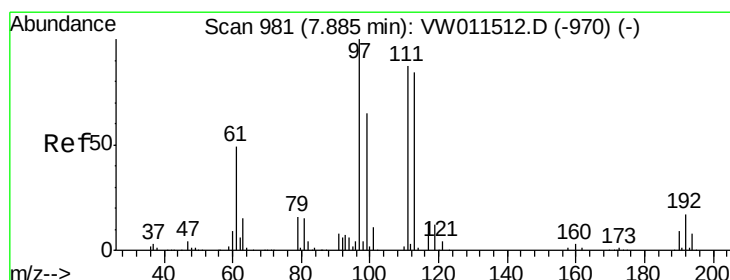
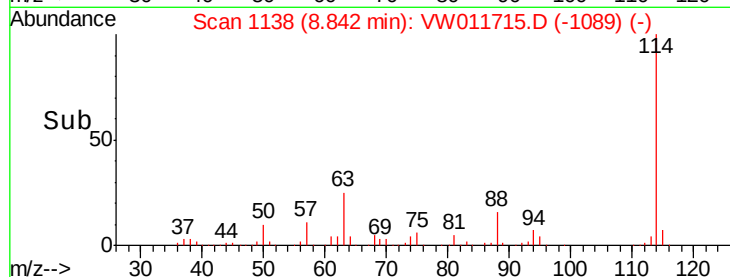
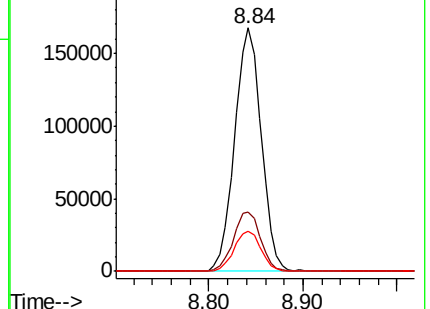
88 16.3 0.0 33.8



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VW

Ion 87.90 (87.60 to 88.60): VW



#35

Dibromofluoromethane

Concen: 56.179 ug/l

RT: 7.88 min Scan# 981

Delta R.T. 0.00 min

Lab File: VW011715.D

Acq: 05 Aug 2019 17:49

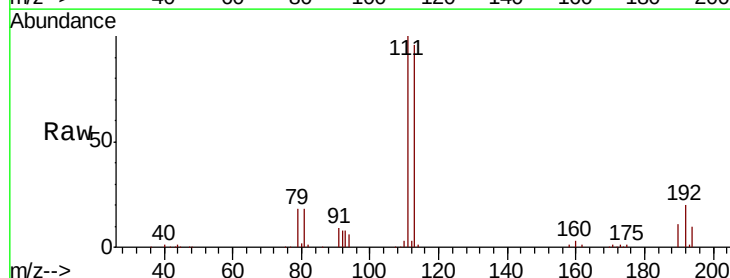
Tgt Ion:113 Resp: 103840

Ion Ratio Lower Upper

113 100

111 102.0 82.7 124.1

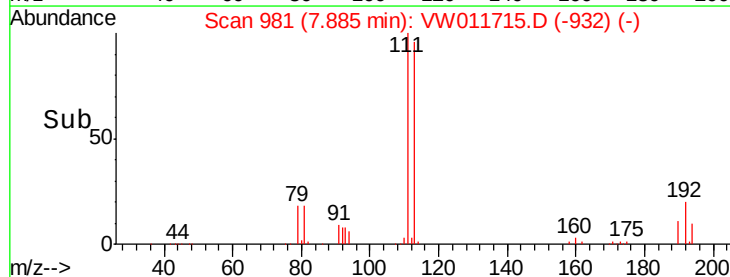
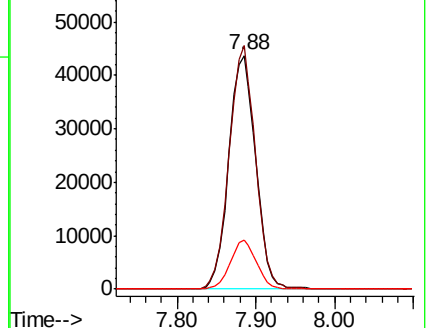
192 20.3 16.1 24.1

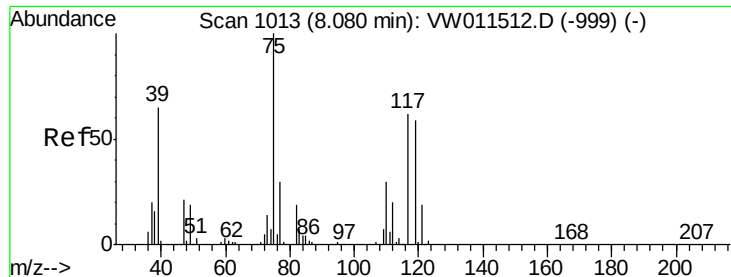


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

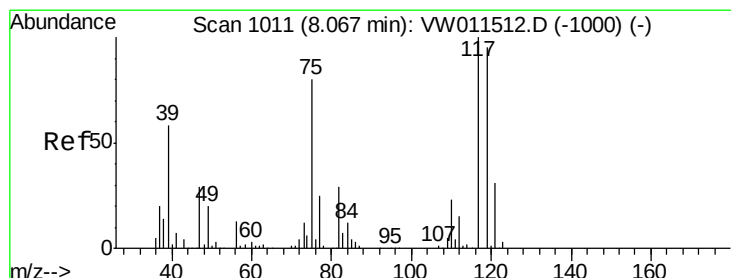
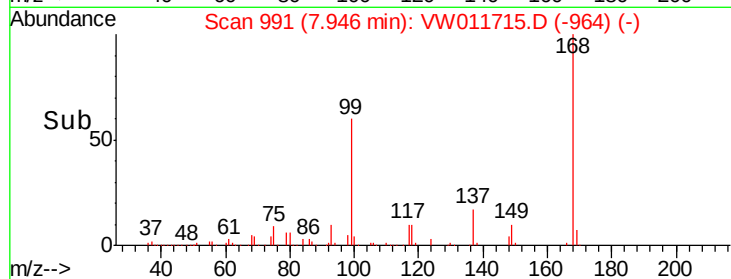
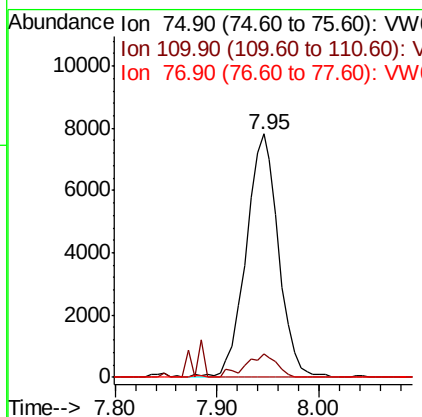
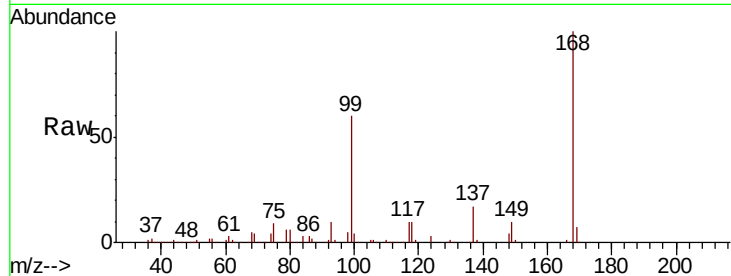




#36  
 1,1-Dichloropropene  
 Concen: 5.024 ug/l  
 RT: 7.95 min Scan# 991  
 Delta R.T. -0.13 min  
 Lab File: VW011715.D  
 Acq: 05 Aug 2019 17:49

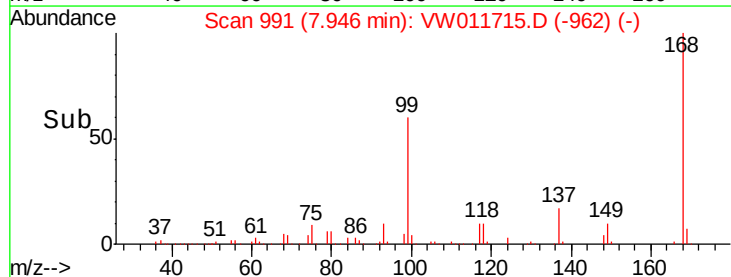
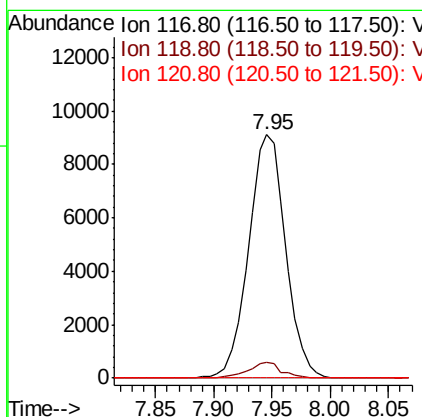
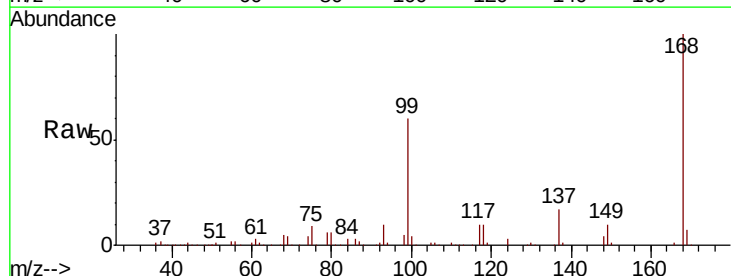
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 1S-C3-(0-1)RE

Tgt Ion: 75 Resp: 17212  
 Ion Ratio Lower Upper  
 75 100  
 110 9.3 15.6 46.8#  
 77 0.0 24.3 36.5#

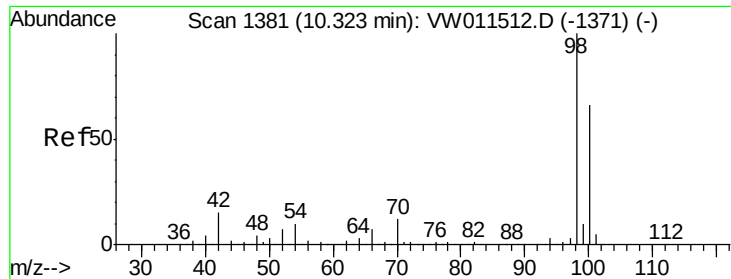


#38  
 Carbon Tetrachloride  
 Concen: 6.872 ug/l  
 RT: 7.95 min Scan# 991  
 Delta R.T. -0.12 min  
 Lab File: VW011715.D  
 Acq: 05 Aug 2019 17:49

Tgt Ion: 117 Resp: 20154  
 Ion Ratio Lower Upper  
 117 100  
 119 6.7 75.8 113.6#  
 121 0.0 24.7 37.1#



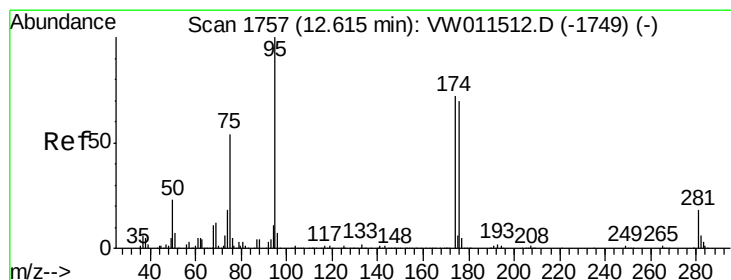
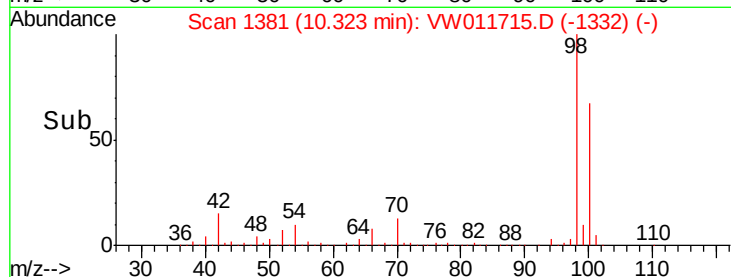
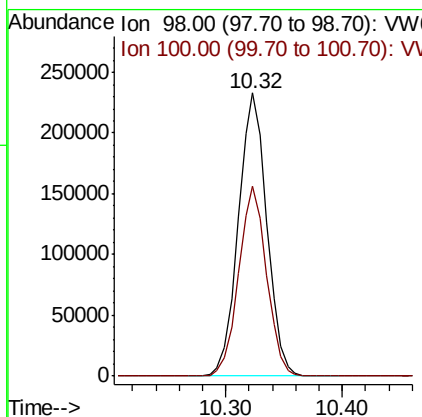
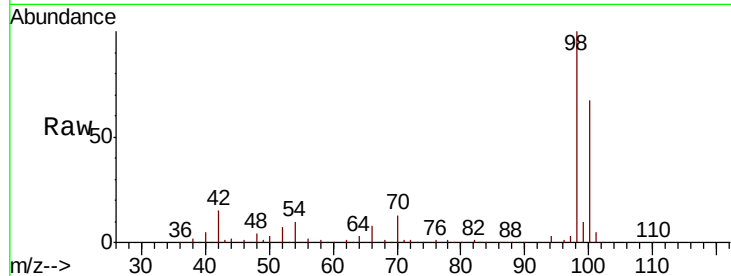




#50  
Toluene-d8  
Concen: 52.375 ug/l  
RT: 10.32 min Scan# 1381  
Delta R.T. 0.00 min  
Lab File: VW011715.D  
Acq: 05 Aug 2019 17:49

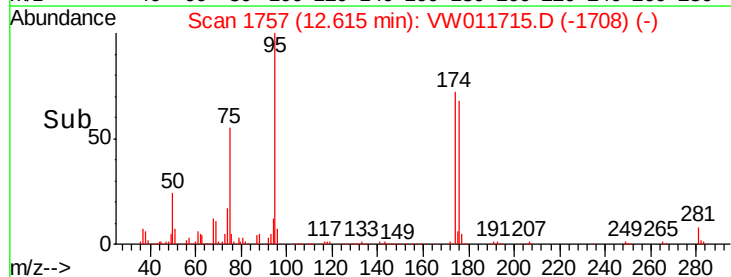
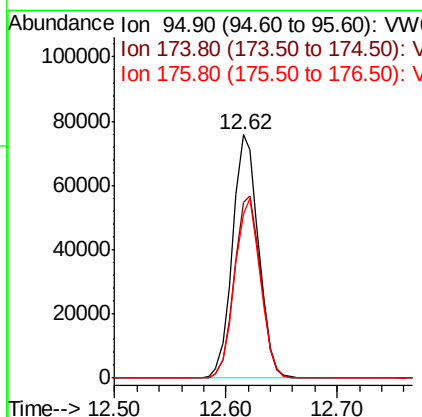
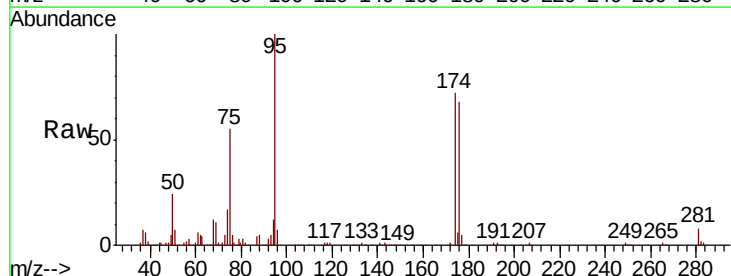
Instrument :  
MSVOA\_W  
ClientSampleId :  
1S-C3-(0-1)RE

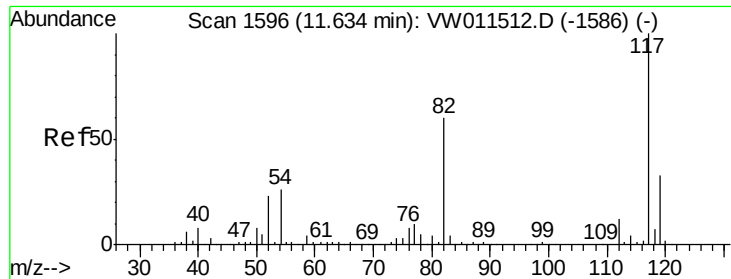
Tgt Ion: 98 Resp: 396366  
Ion Ratio Lower Upper  
98 100  
100 65.9 52.7 79.1



#62  
4-Bromofluorobenzene  
Concen: 45.192 ug/l  
RT: 12.62 min Scan# 1757  
Delta R.T. 0.00 min  
Lab File: VW011715.D  
Acq: 05 Aug 2019 17:49

Tgt Ion: 95 Resp: 121931  
Ion Ratio Lower Upper  
95 100  
174 76.7 0.0 150.2  
176 73.3 0.0 144.4

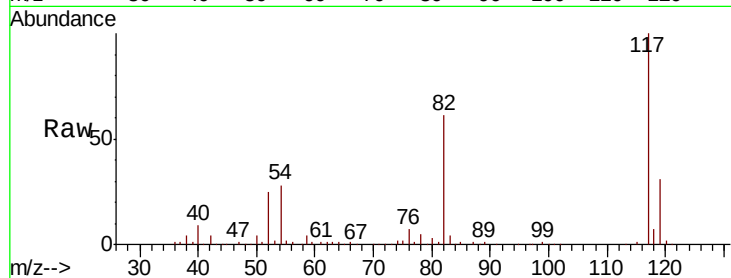




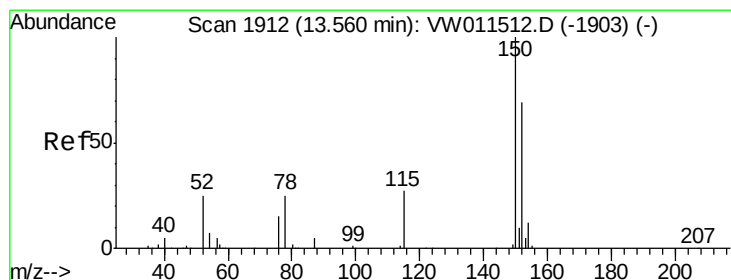
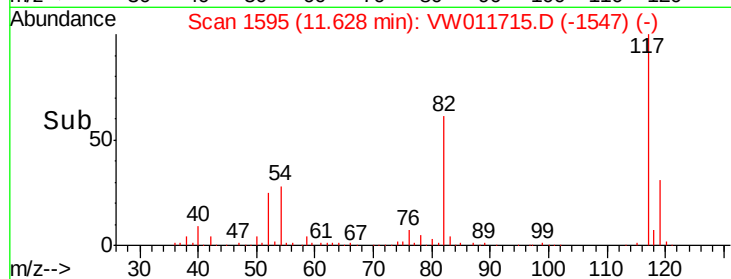
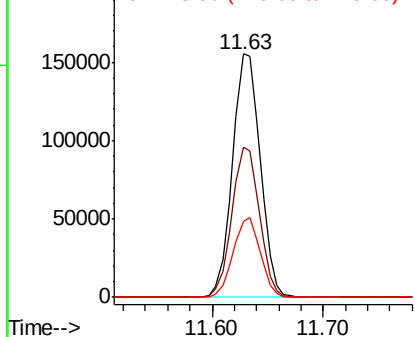
#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.63 min Scan# 1595  
Delta R.T. -0.01 min  
Lab File: VW011715.D  
Acq: 05 Aug 2019 17:49

Instrument :  
MSVOA\_W  
ClientSampleId :  
1S-C3-(0-1)RE

Tgt Ion:117 Resp: 268252  
Ion Ratio Lower Upper  
117 100  
82 61.4 47.9 71.9  
119 31.4 26.2 39.2

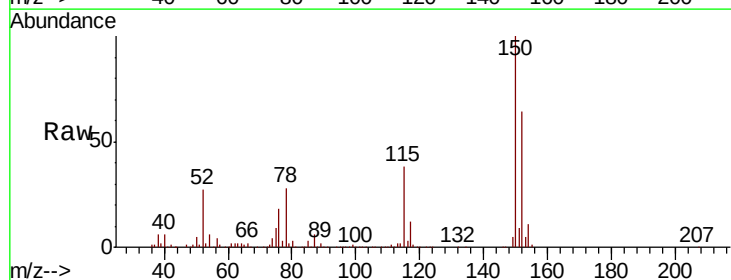


Abundance Ion 116.90 (116.60 to 117.60): V  
Ion 82.00 (81.70 to 82.70): VW  
Ion 118.90 (118.60 to 119.60): V

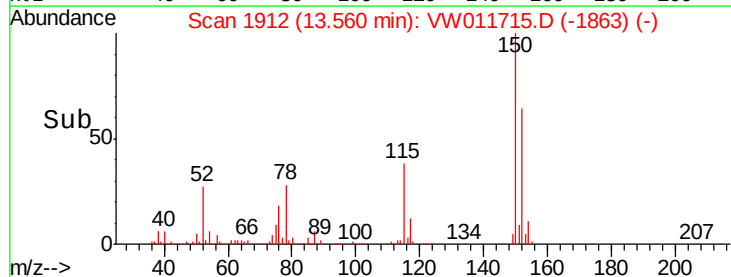
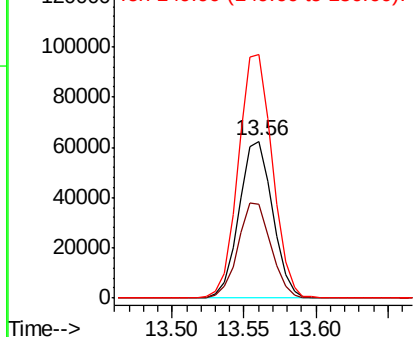


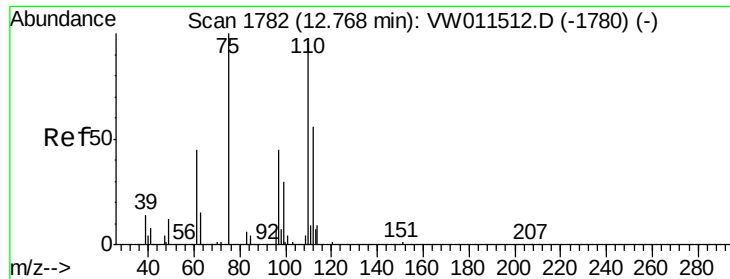
#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.56 min Scan# 1912  
Delta R.T. 0.00 min  
Lab File: VW011715.D  
Acq: 05 Aug 2019 17:49

Tgt Ion:152 Resp: 100367  
Ion Ratio Lower Upper  
152 100  
115 60.1 30.5 91.5  
150 158.0 0.0 352.6



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

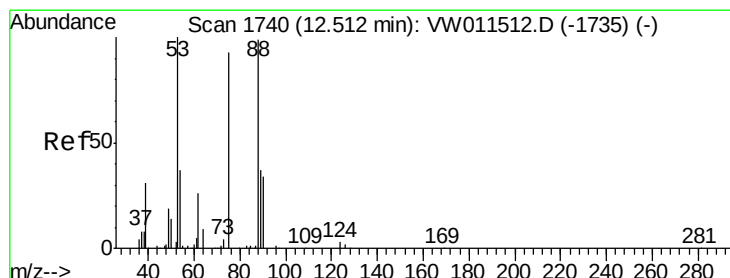
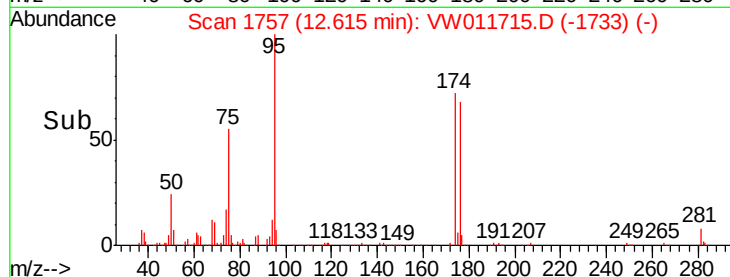
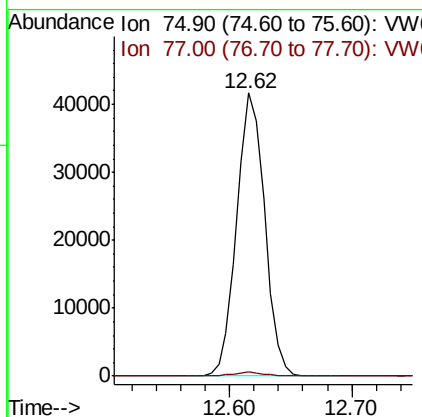
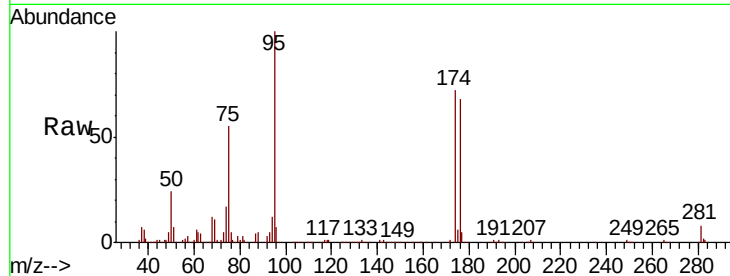




#76  
 1,2,3-Trichloropropane  
 Concen: 62.316 ug/l  
 RT: 12.62 min Scan# 1757  
 Delta R.T. -0.15 min  
 Lab File: VW011715.D  
 Acq: 05 Aug 2019 17:49

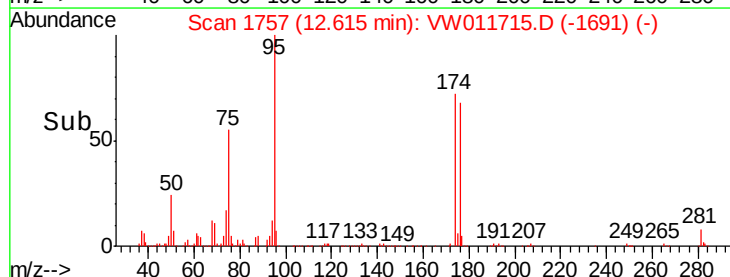
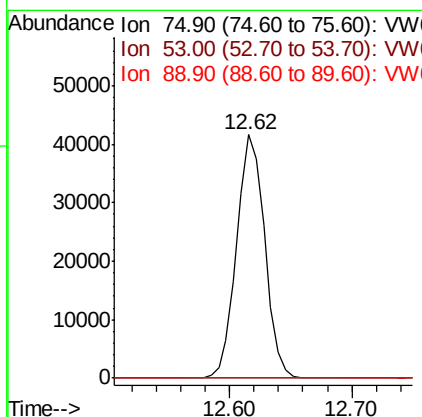
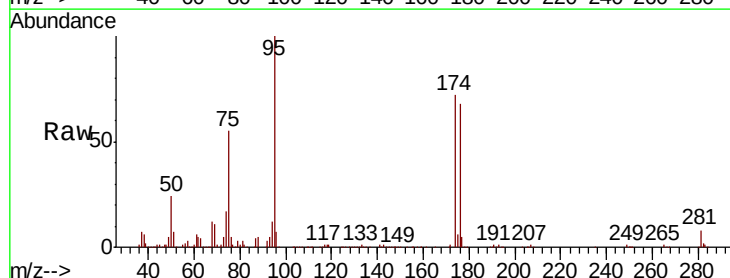
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 1S-C3-(0-1)RE

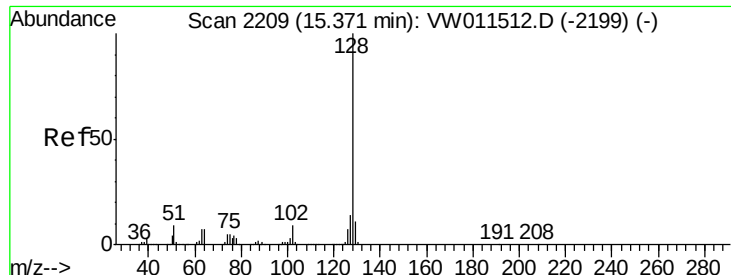
Tgt Ion: 75 Resp: 66180  
 Ion Ratio Lower Upper  
 75 100  
 77 1.6 0.0 0.0#



#81  
 trans-1,4-Dichloro-2-butene  
 Concen: 143.618 ug/l  
 RT: 12.62 min Scan# 1757  
 Delta R.T. 0.10 min  
 Lab File: VW011715.D  
 Acq: 05 Aug 2019 17:49

Tgt Ion: 75 Resp: 66180  
 Ion Ratio Lower Upper  
 75 100  
 53 0.1 88.0 132.0#  
 89 0.0 35.3 52.9#





#95

Naphthalene

Concen: 2.383 ug/l

RT: 15.36 min Scan# 2208

Delta R.T. -0.01 min

Lab File: VW011715.D

Acq: 05 Aug 2019 17:49

Instrument :

MSVOA\_W

ClientSampleId :

1S-C3-(0-1)RE

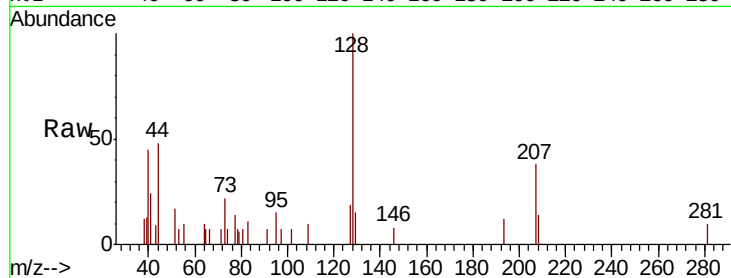
Tgt Ion:128 Resp: 1310

Ion Ratio Lower Upper

128 100

127 10.0 10.6 16.0#

129 12.1 8.6 13.0



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

