

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_W\DATA\VW090419\  
 Data File : VW012620.D  
 Acq On : 05 Sep 2019 05:42  
 Operator : SY/VA  
 Sample : K4547-12  
 Misc : 6.22G/5ML/MSVOA\_W/SOIL  
 ALS Vial : 44 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 T7-S-G1-(2.5)

Quant Time: Sep 05 07:05:52 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\82W082319S.M  
 Quant Title : SW846 8260  
 QLast Update : Mon Aug 26 07:18:31 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.95  | 168  | 265197   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.84  | 114  | 431686   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.63 | 117  | 361249   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.56 | 152  | 107852   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds |        |     |          |       |         |      |
|-----------------------------|--------|-----|----------|-------|---------|------|
| 33) 1,2-Dichloroethane-d4   | 8.30   | 65  | 177585   | 56.33 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 112.66% |      |
| 35) Dibromofluoromethane    | 7.88   | 113 | 134648   | 52.26 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 104.52% |      |
| 50) Toluene-d8              | 10.32  | 98  | 532757   | 50.99 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 101.98% |      |
| 62) 4-Bromofluorobenzene    | 12.62  | 95  | 151535   | 41.15 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 82.30%  |      |

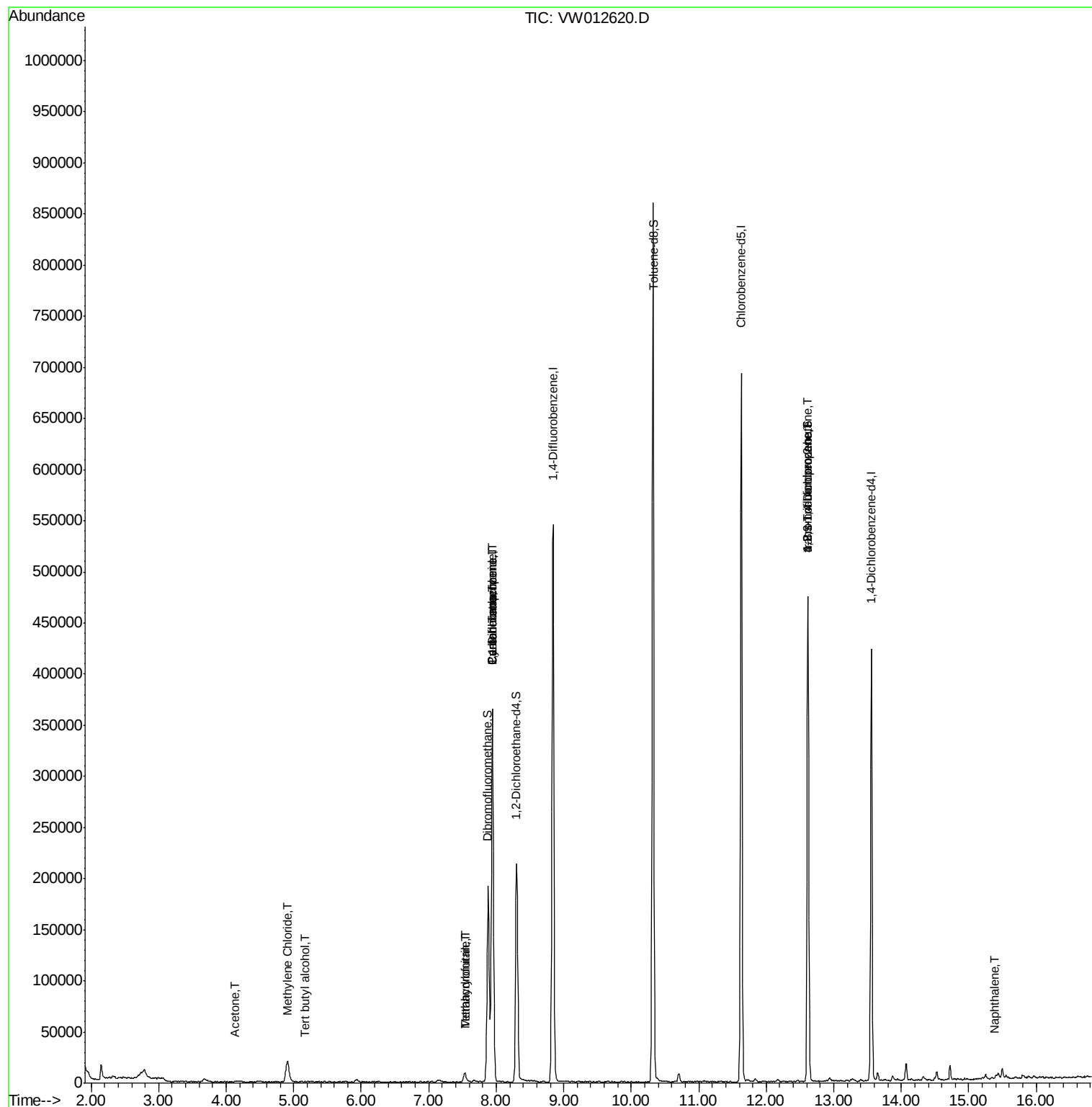
| Target Compounds               | R.T.  | QIon | Response | Conc    | Units  | Qvalue |
|--------------------------------|-------|------|----------|---------|--------|--------|
| 11) Tert butyl alcohol         | 5.17  | 59   | 252      | 1.328   | ug/l # | 81     |
| 16) Acetone                    | 4.14  | 43   | 1323     | 1.642   | ug/l # | 50     |
| 20) Methylene Chloride         | 4.91  | 84   | 15236    | 5.001   | ug/l   | 89     |
| 29) Tetrahydrofuran            | 7.53  | 42   | 7754     | 11.802  | ug/l # | 94     |
| 31) Cyclohexane                | 7.94  | 56   | 6690     | 1.178   | ug/l # | 11     |
| 36) 1,1-Dichloropropene        | 7.94  | 75   | 22412    | 5.024   | ug/l # | 52     |
| 38) Carbon Tetrachloride       | 7.94  | 117  | 26829    | 6.949   | ug/l # | 17     |
| 41) Methacrylonitrile          | 7.53  | 41   | 5100     | 3.550   | ug/l # | 56     |
| 76) 1,2,3-Trichloropropane     | 12.62 | 75   | 81185    | 77.289  | ug/l # | 100    |
| 81) trans-1,4-Dichloro-2-buten | 12.62 | 75   | 81185    | 169.460 | ug/l # | 6      |
| 95) Naphthalene                | 15.37 | 128  | 436      | 4.419   | ug/l # | 79     |

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

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA\_W\DATA\VW090419\  
Data File : VW012620.D  
Acq On : 05 Sep 2019 05:42  
Operator : SY/VA  
Sample : K4547-12  
Misc : 6.22G/5ML/MSVOA\_W/SOIL  
ALS Vial : 44 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
T7-S-G1-(2.5)

Quant Time: Sep 05 07:05:52 2019  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\82W082319S.M  
Quant Title : SW846 8260  
QLast Update : Mon Aug 26 07:18:31 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: VW012620.D

Acq: 05 Sep 2019 05:42

Instrument :

MSVOA\_W

ClientSampled :

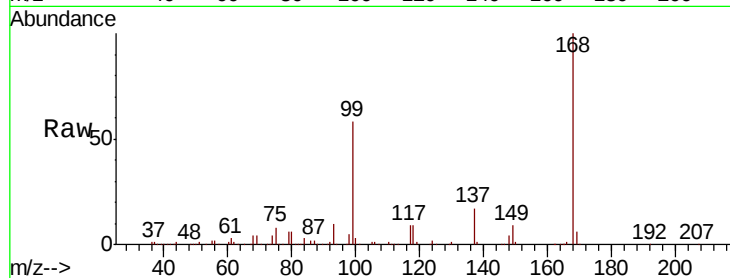
T7-S-G1-(2.5)

Tgt Ion: 168 Resp: 265197

Ion Ratio Lower Upper

168 100

99 58.2 49.2 73.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW

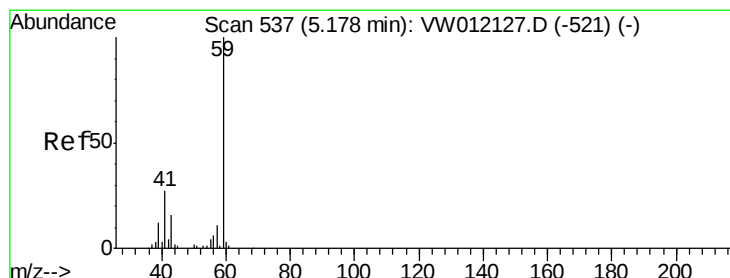
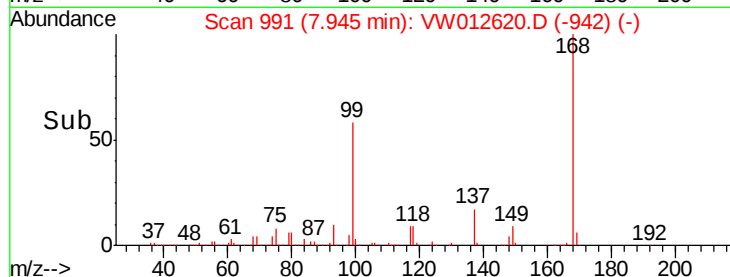
7.95

100000

50000

0

Time--> 7.80 7.90 8.00 8.10



#11

Tert butyl alcohol

Concen: 1.328 ug/l

RT: 5.17 min Scan# 536

Delta R.T. -0.01 min

Lab File: VW012620.D

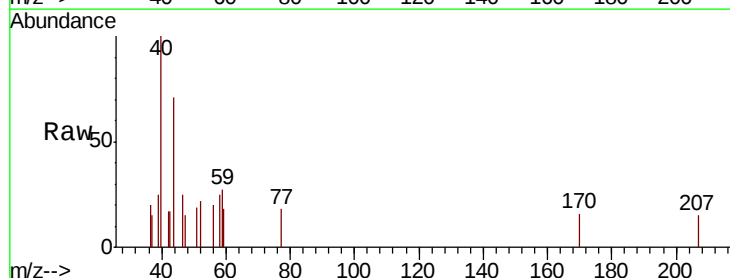
Acq: 05 Sep 2019 05:42

Tgt Ion: 59 Resp: 252

Ion Ratio Lower Upper

59 100

57 18.3 9.0 13.4#



Abundance Ion 59.00 (58.70 to 59.70): VW

Ion 57.00 (56.70 to 57.70): VW

250

200

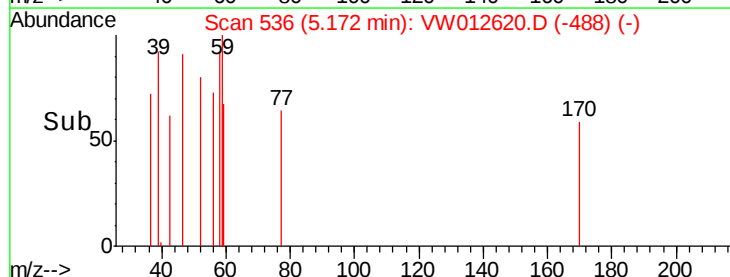
150

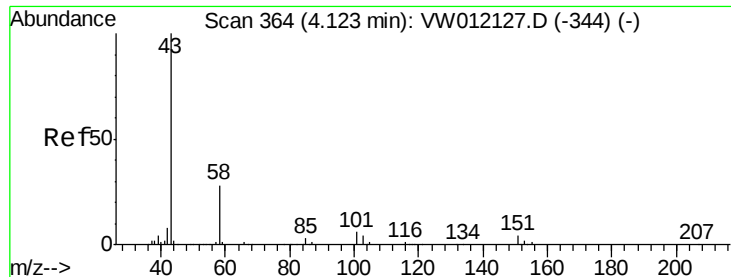
100

50

0

Time--> 5.14 5.16 5.18 5.20





#16

Acetone

Concen: 1.642 ug/l

RT: 4.14 min Scan# 367

Delta R.T. 0.02 min

Lab File: VW012620.D

Acq: 05 Sep 2019 05:42

Instrument :

MSVOA\_W

ClientSampleId :

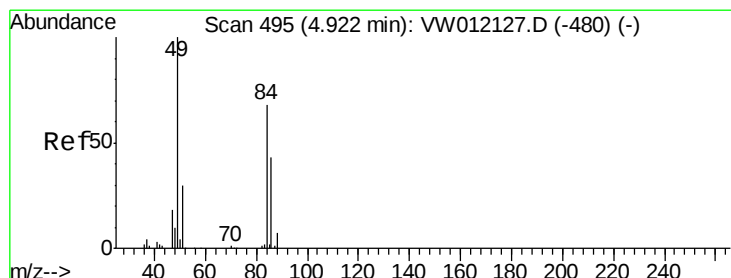
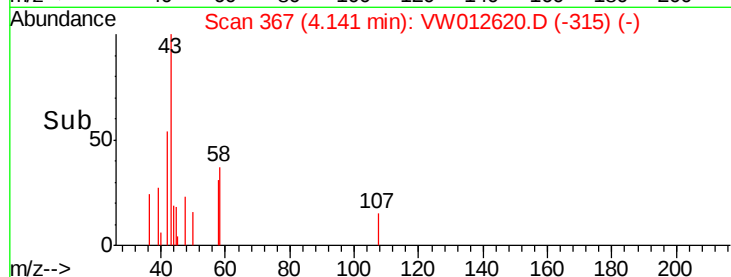
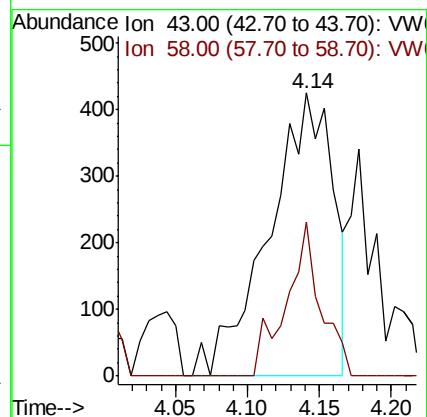
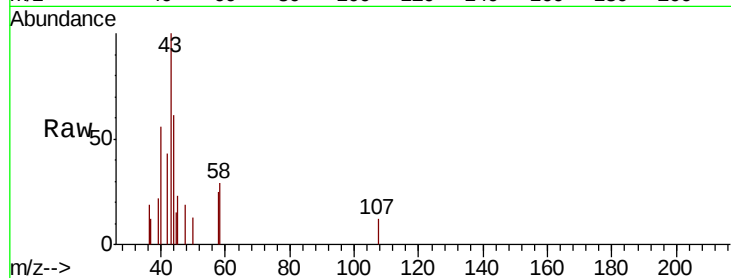
T7-S-G1-(2.5)

Tgt Ion: 43 Resp: 1323

Ion Ratio Lower Upper

43 100

58 54.4 22.4 33.6#



#20

Methylene Chloride

Concen: 5.001 ug/l

RT: 4.91 min Scan# 493

Delta R.T. -0.01 min

Lab File: VW012620.D

Acq: 05 Sep 2019 05:42

Tgt Ion: 84 Resp: 15236

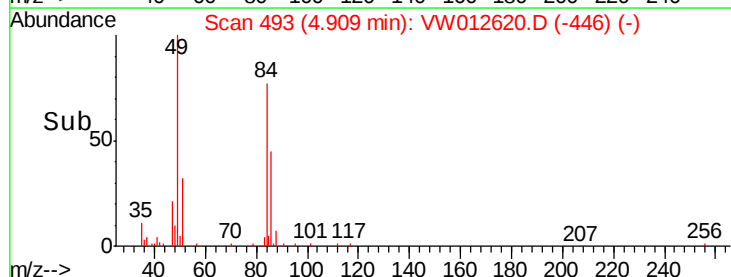
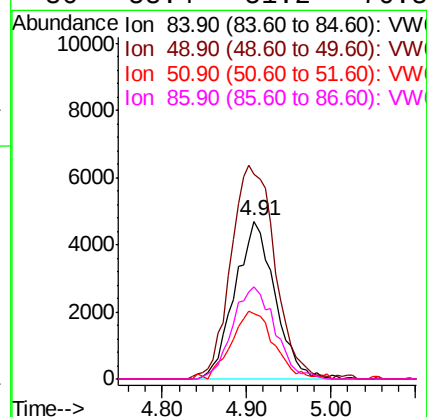
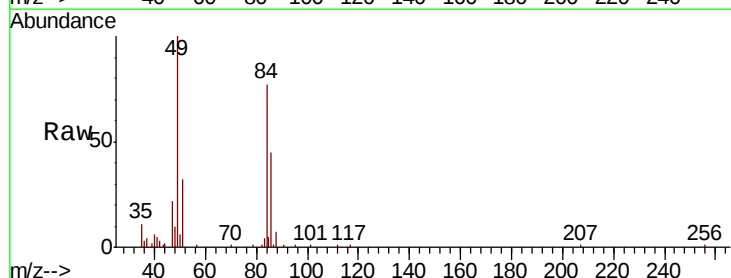
Ion Ratio Lower Upper

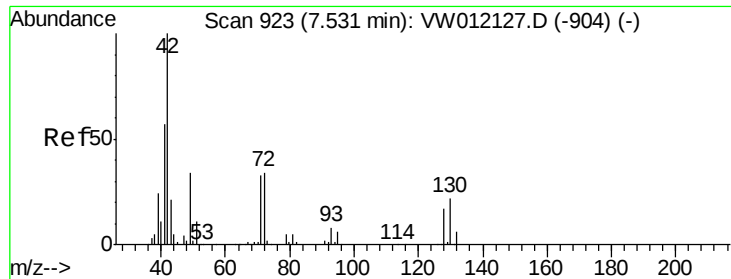
84 100

49 128.6 117.8 176.8

51 41.3 35.6 53.4

86 58.4 51.2 76.8

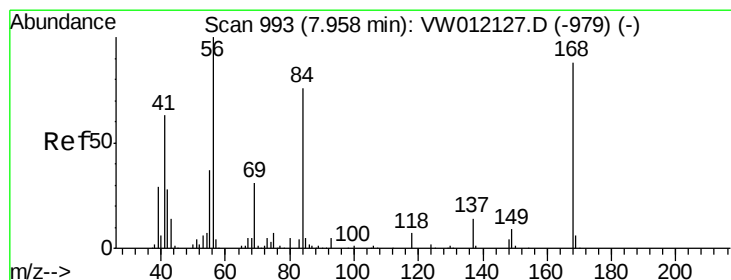
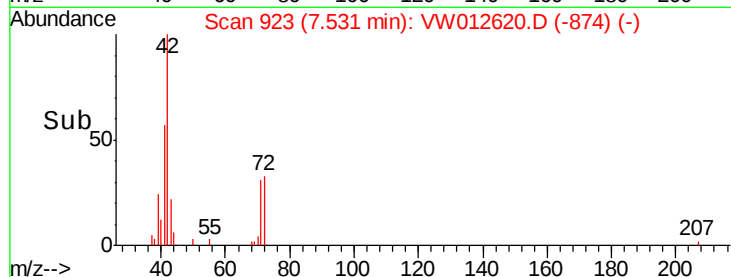
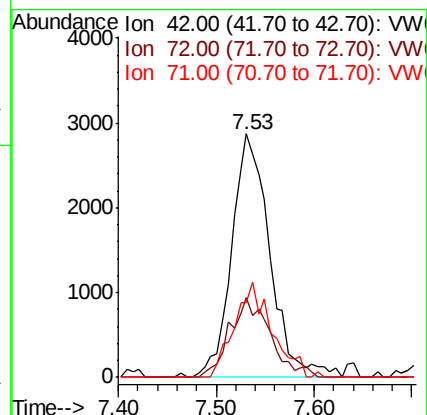
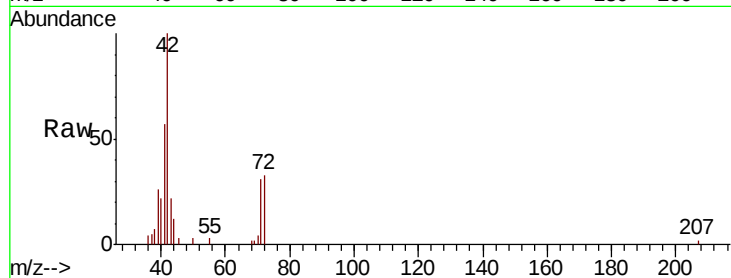




#29  
Tetrahydrofuran  
Concen: 11.802 ug/l  
RT: 7.53 min Scan# 923  
Delta R.T. -0.00 min  
Lab File: VW012620.D  
Acq: 05 Sep 2019 05:42

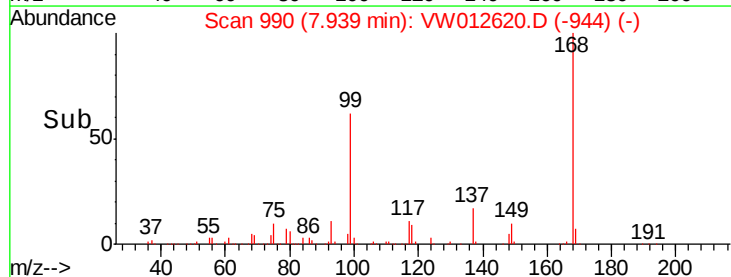
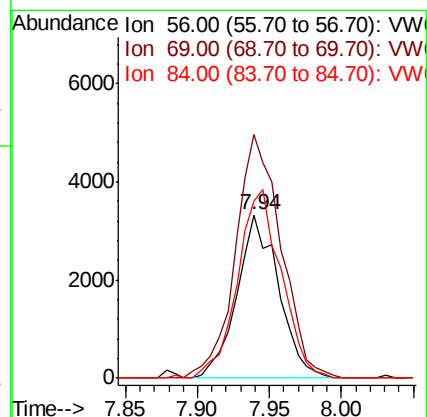
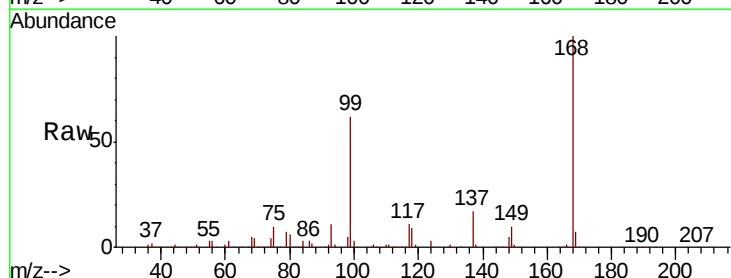
Instrument :  
MSVOA\_W  
ClientSampleId :  
T7-S-G1-(2.5)

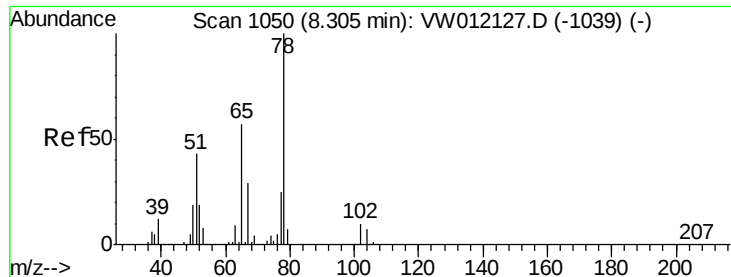
Tgt Ion: 42 Resp: 7754  
Ion Ratio Lower Upper  
42 100  
72 34.8 27.3 40.9  
71 38.3 25.5 38.3#



#31  
Cyclohexane  
Concen: 1.178 ug/l  
RT: 7.94 min Scan# 990  
Delta R.T. -0.02 min  
Lab File: VW012620.D  
Acq: 05 Sep 2019 05:42

Tgt Ion: 56 Resp: 6690  
Ion Ratio Lower Upper  
56 100  
69 149.0 24.9 37.3#  
84 108.5 60.6 90.8#

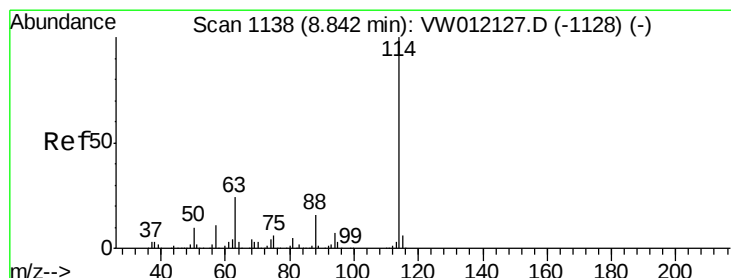
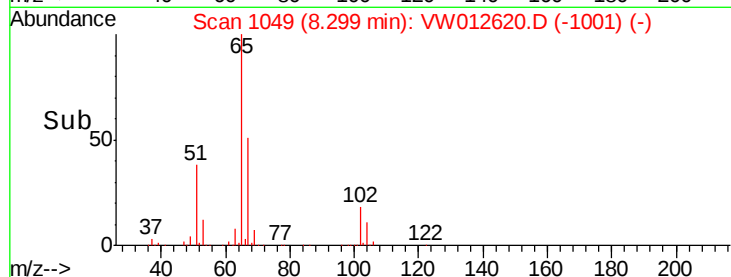
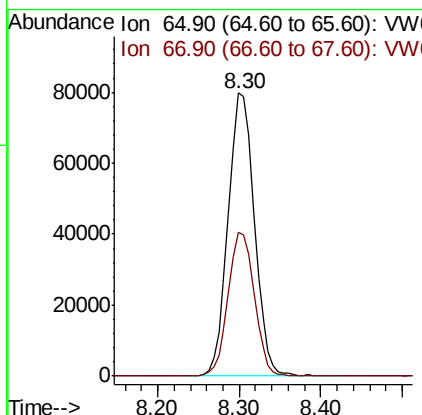
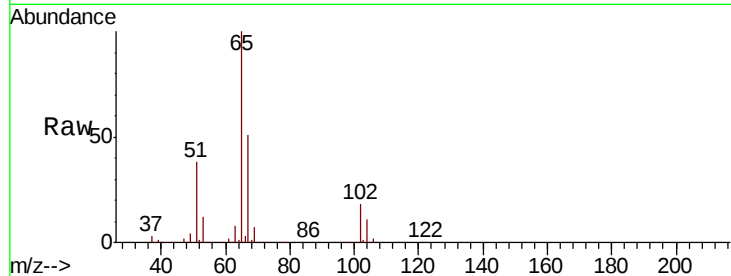




#33  
 1,2-Dichloroethane-d4  
 Concen: 56.331 ug/l  
 RT: 8.30 min Scan# 1049  
 Delta R.T. -0.01 min  
 Lab File: VW012620.D  
 Acq: 05 Sep 2019 05:42

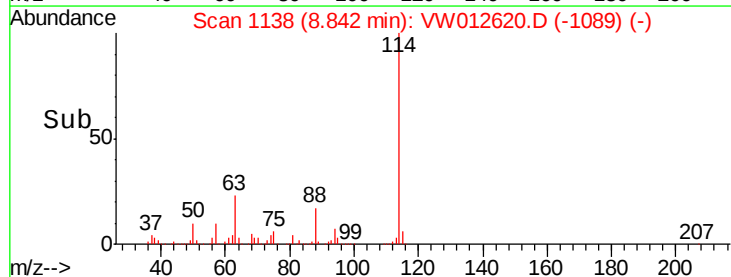
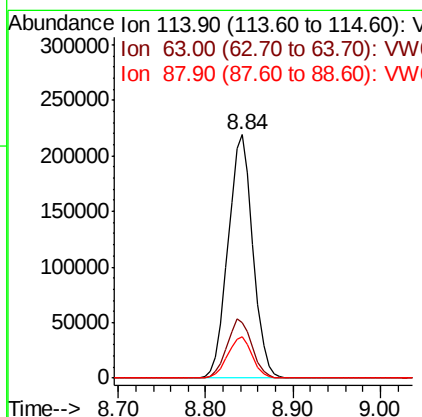
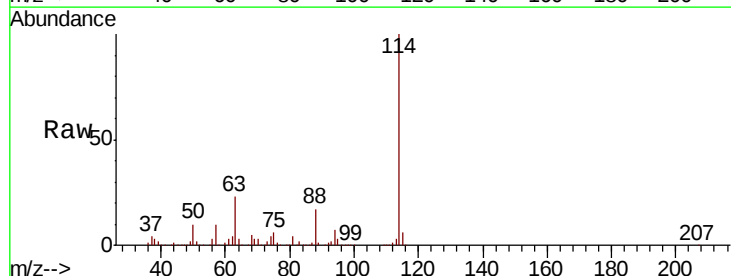
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 T7-S-G1-(2.5)

Tgt Ion: 65 Resp: 177585  
 Ion Ratio Lower Upper  
 65 100  
 67 50.6 0.0 102.6



#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.84 min Scan# 1138  
 Delta R.T. -0.00 min  
 Lab File: VW012620.D  
 Acq: 05 Sep 2019 05:42

Tgt Ion: 114 Resp: 431686  
 Ion Ratio Lower Upper  
 114 100  
 63 22.6 0.0 48.6  
 88 16.8 0.0 32.2





#35

Dibromofluoromethane

Concen: 52.255 ug/l

RT: 7.88 min Scan# 980

Delta R.T. -0.01 min

Lab File: VW012620.D

Acq: 05 Sep 2019 05:42

Instrument :

MSVOA\_W

ClientSampleId :

T7-S-G1-(2.5)

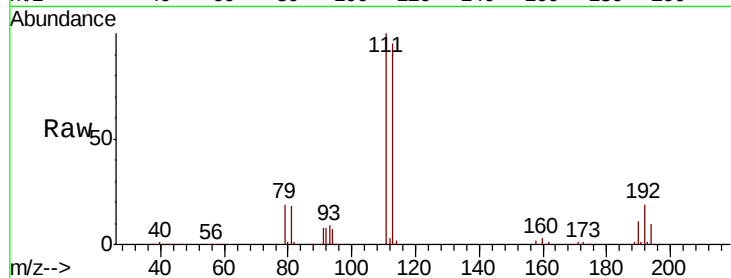
Tgt Ion:113 Resp: 134648

Ion Ratio Lower Upper

113 100

111 102.7 82.7 124.1

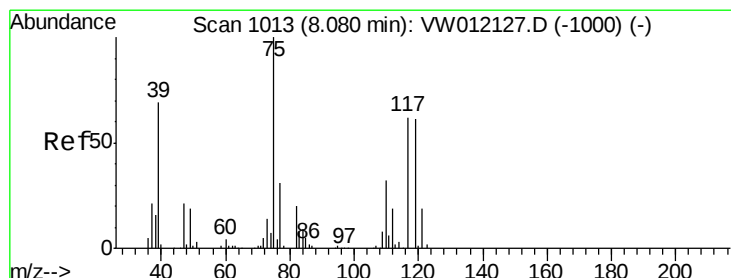
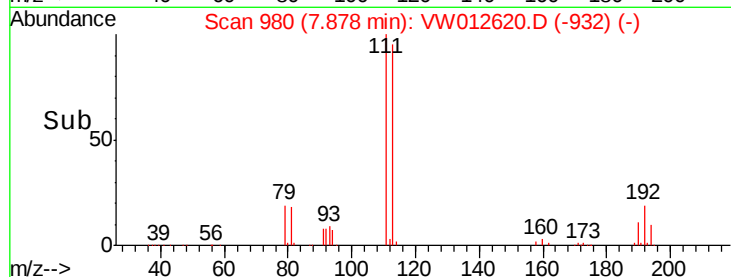
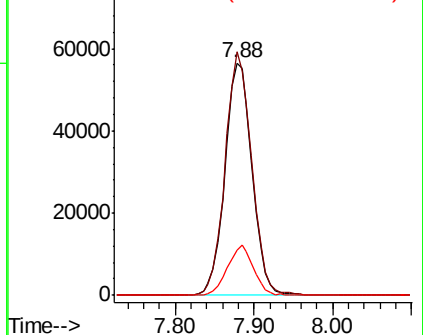
192 20.8 16.2 24.2



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: 7.94 min Scan# 990

Delta R.T. -0.14 min

Lab File: VW012620.D

Acq: 05 Sep 2019 05:42

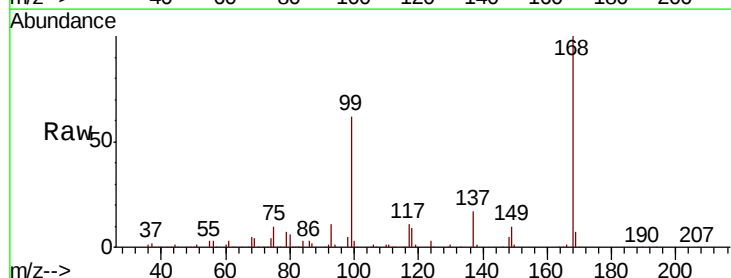
Tgt Ion: 75 Resp: 22412

Ion Ratio Lower Upper

75 100

110 9.2 15.6 46.8#

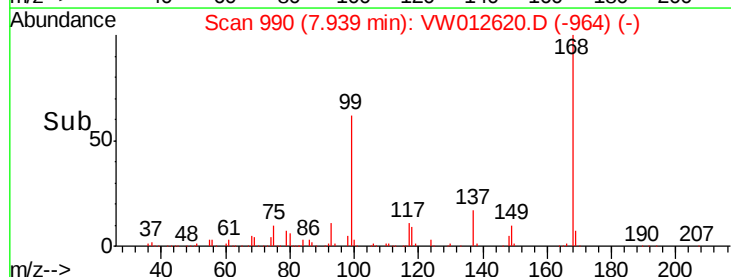
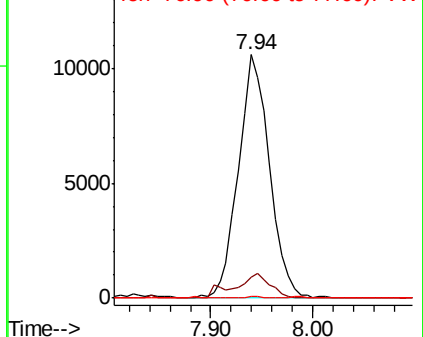
77 0.3 24.6 36.8#

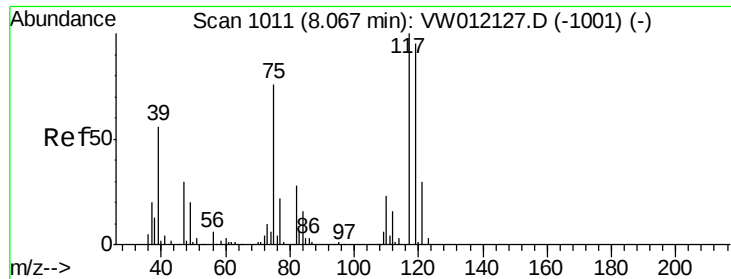


Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VW





#38

Carbon Tetrachloride

Concen: 6.949 ug/l

RT: 7.94 min Scan# 990

Delta R.T. -0.13 min

Lab File: VW012620.D

Acq: 05 Sep 2019 05:42

Instrument :

MSVOA\_W

ClientSampleId :

T7-S-G1-(2.5)

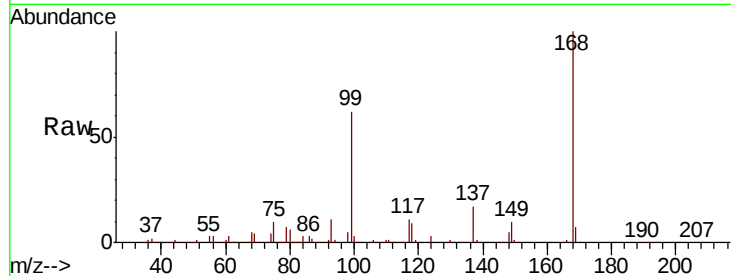
Tgt Ion:117 Resp: 26829

Ion Ratio Lower Upper

117 100

119 5.8 76.2 114.2#

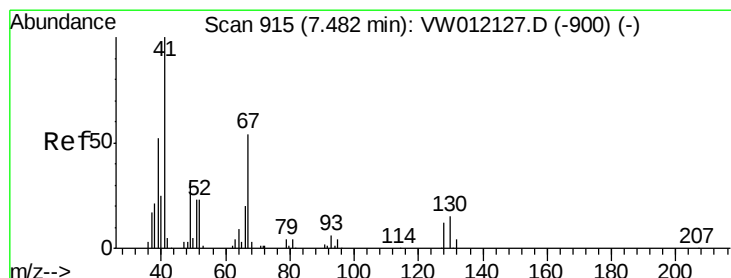
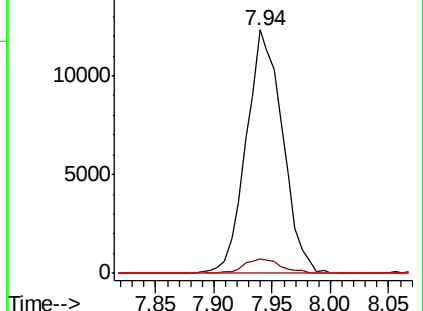
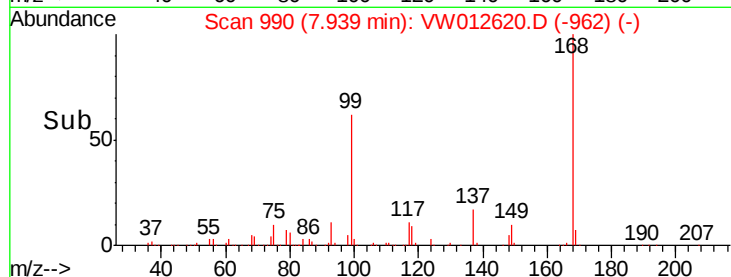
121 0.0 23.8 35.8#



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



#41

Methacrylonitrile

Concen: 3.550 ug/l

RT: 7.53 min Scan# 923

Delta R.T. 0.05 min

Lab File: VW012620.D

Acq: 05 Sep 2019 05:42

Tgt Ion: 41 Resp: 5100

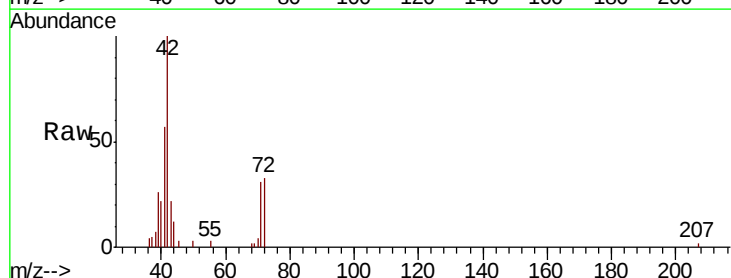
Ion Ratio Lower Upper

41 100

39 51.8 45.8 68.8

67 0.0 46.2 69.4#

52 0.0 21.0 31.6#

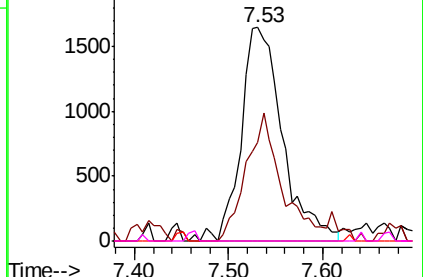
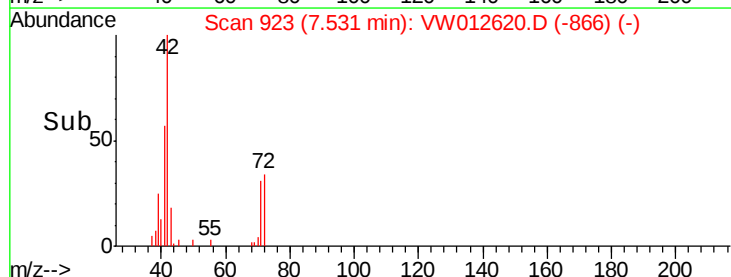


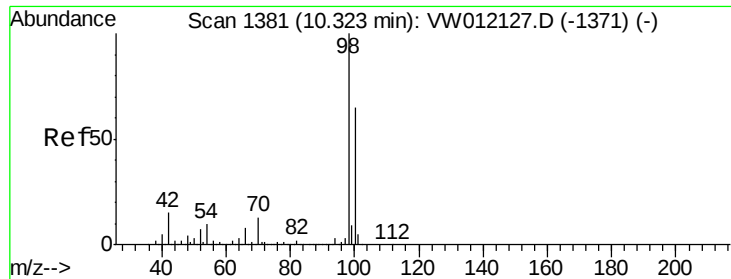
Abundance Ion 41.00 (40.70 to 41.70): VW

Ion 39.00 (38.70 to 39.70): VW

Ion 67.00 (66.70 to 67.70): VW

Ion 52.00 (51.70 to 52.70): VW





#50

Toluene-d8

Concen: 50.992 ug/l

RT: 10.32 min Scan# 1381

Delta R.T. -0.00 min

Lab File: VW012620.D

Acq: 05 Sep 2019 05:42

Instrument :

MSVOA\_W

ClientSampleId :

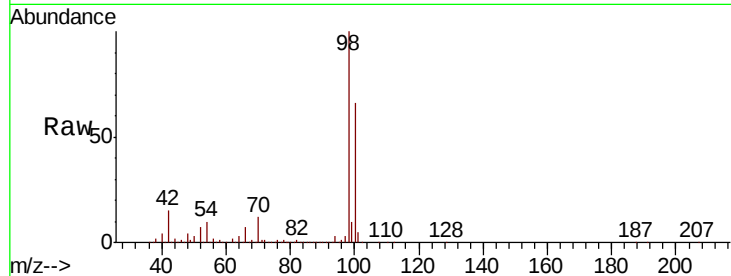
T7-S-G1-(2.5)

Tgt Ion: 98 Resp: 532757

Ion Ratio Lower Upper

98 100

100 65.6 52.4 78.6



Abundance Ion 98.00 (97.70 to 98.70): VW

Ion 100.00 (99.70 to 100.70): VW

10.32

300000

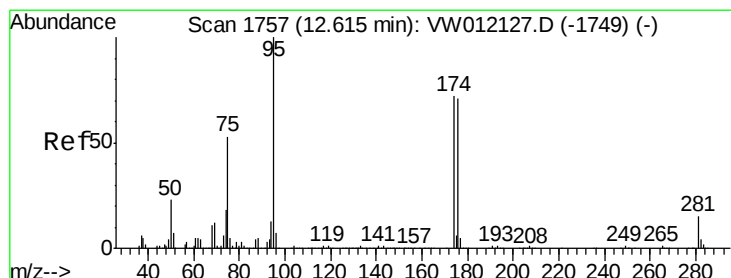
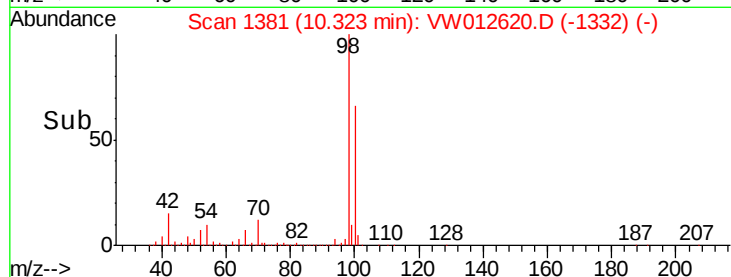
200000

100000

0

Time-->

10.20 10.30 10.40



#62

4-Bromofluorobenzene

Concen: 41.146 ug/l

RT: 12.62 min Scan# 1757

Delta R.T. -0.00 min

Lab File: VW012620.D

Acq: 05 Sep 2019 05:42

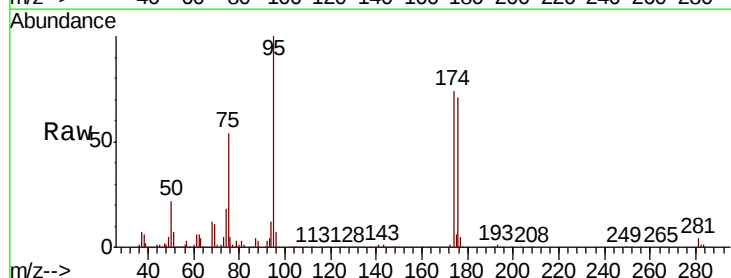
Tgt Ion: 95 Resp: 151535

Ion Ratio Lower Upper

95 100

174 78.4 0.0 150.8

176 76.1 0.0 148.6



Abundance Ion 94.90 (94.60 to 95.60): VW

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

12.62

120000

100000

80000

60000

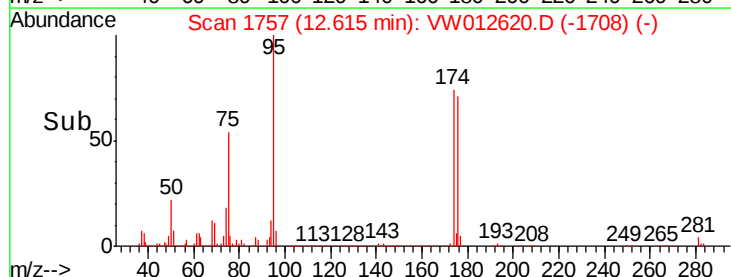
40000

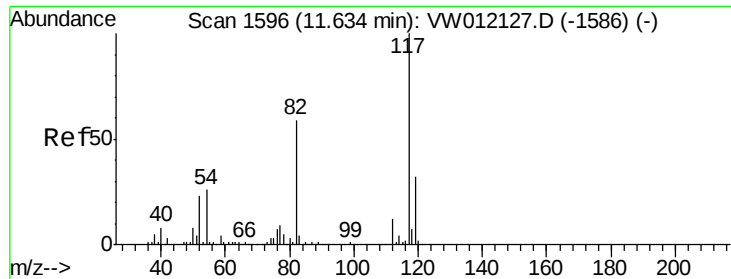
20000

0

Time-->

12.60 12.70

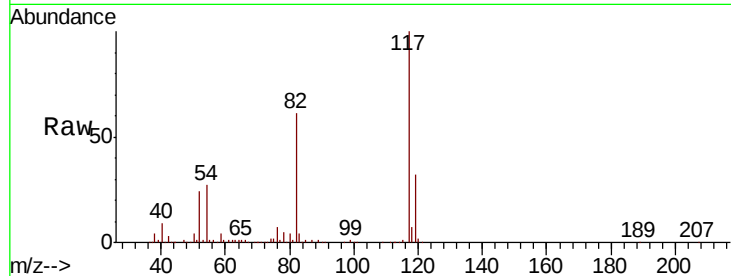




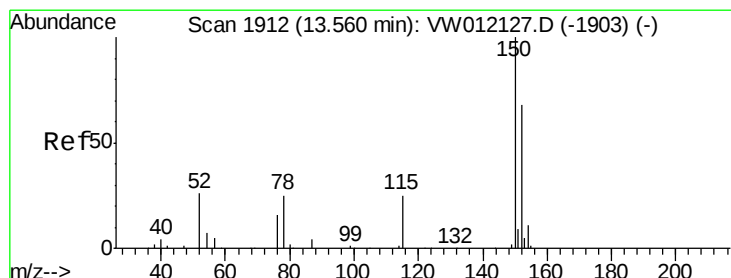
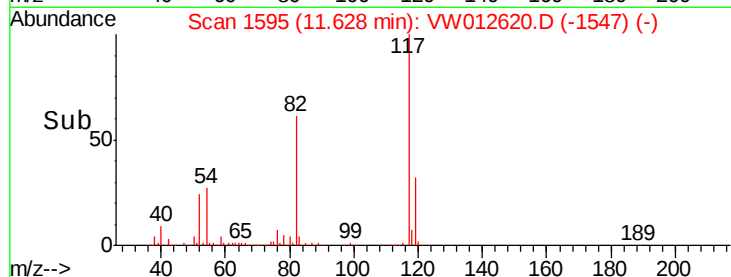
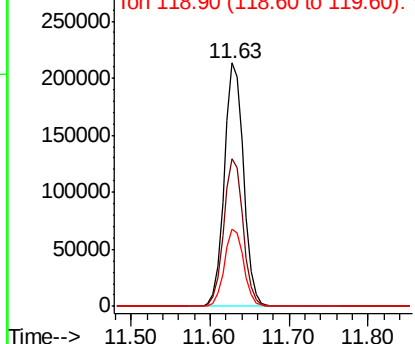
#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.63 min Scan# 1595  
Delta R.T. -0.01 min  
Lab File: VW012620.D  
Acq: 05 Sep 2019 05:42

Instrument :  
MSVOA\_W  
ClientSampleId :  
T7-S-G1-(2.5)

Tgt Ion:117 Resp: 361249  
Ion Ratio Lower Upper  
117 100  
82 60.7 47.4 71.2  
119 32.0 25.4 38.2

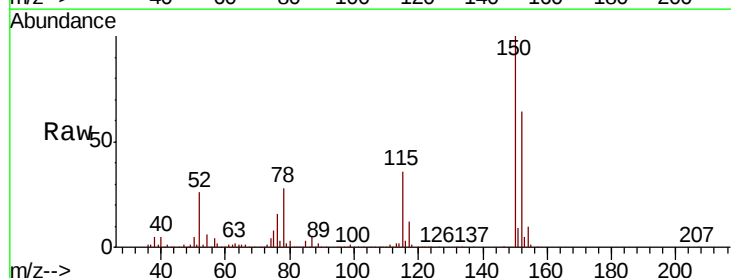


Abundance Ion 116.90 (116.60 to 117.60): V  
Ion 82.00 (81.70 to 82.70): V  
Ion 118.90 (118.60 to 119.60): V

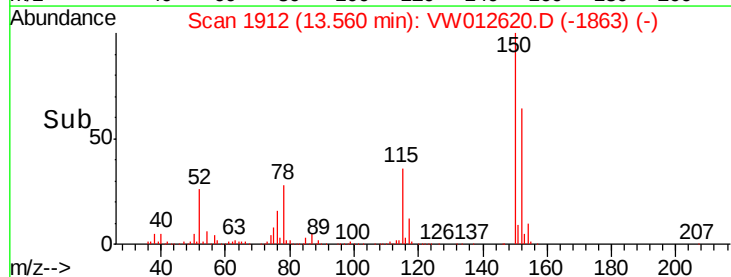
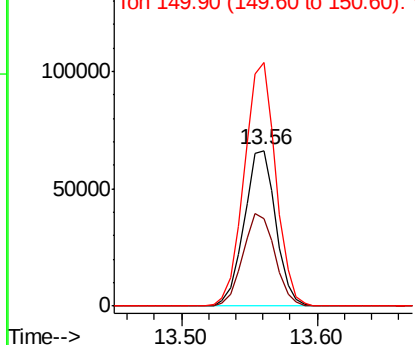


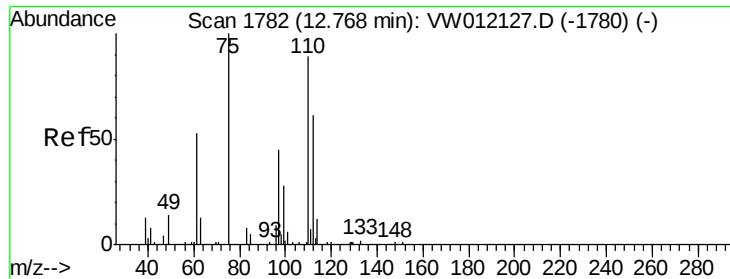
#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.56 min Scan# 1912  
Delta R.T. -0.00 min  
Lab File: VW012620.D  
Acq: 05 Sep 2019 05:42

Tgt Ion:152 Resp: 107852  
Ion Ratio Lower Upper  
152 100  
115 60.2 30.1 90.3  
150 155.8 0.0 345.8



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

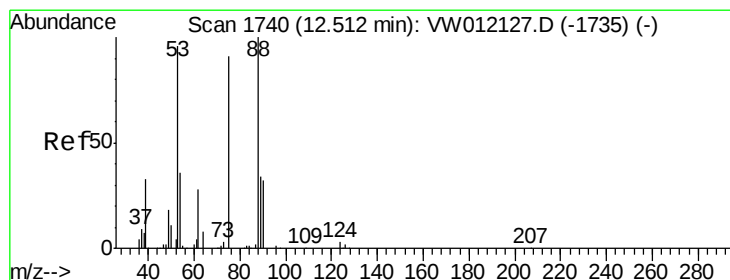
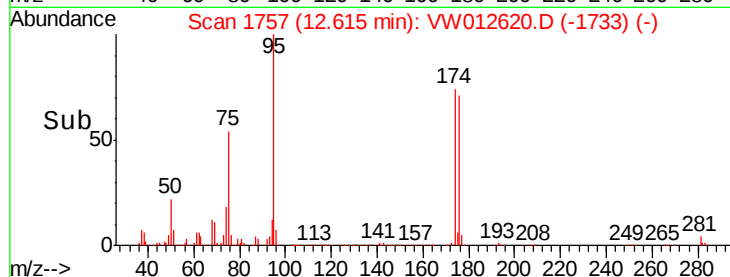
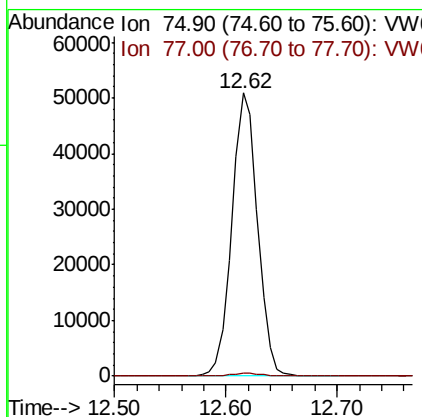
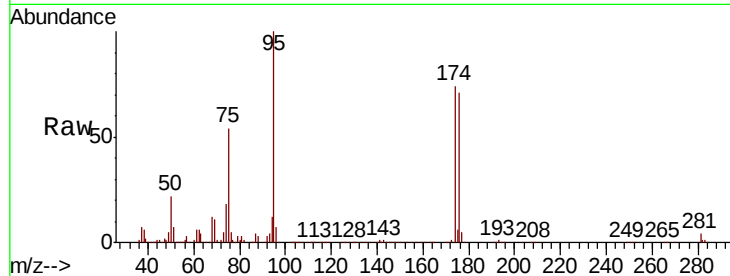




#76  
 1,2,3-Trichloropropane  
 Concen: 77.289 ug/l  
 RT: 12.62 min Scan# 1757  
 Delta R.T. -0.15 min  
 Lab File: VW012620.D  
 Acq: 05 Sep 2019 05:42

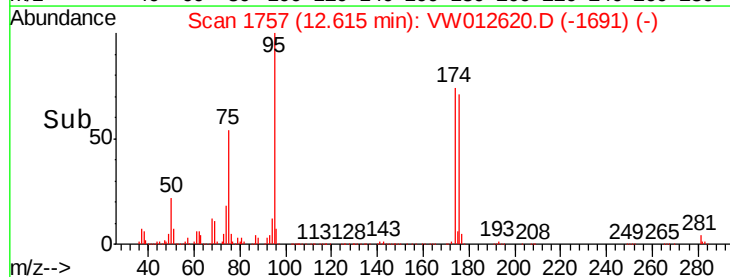
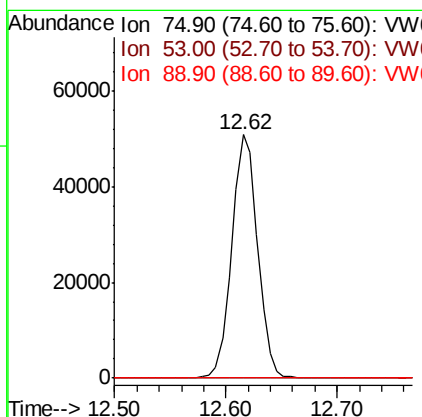
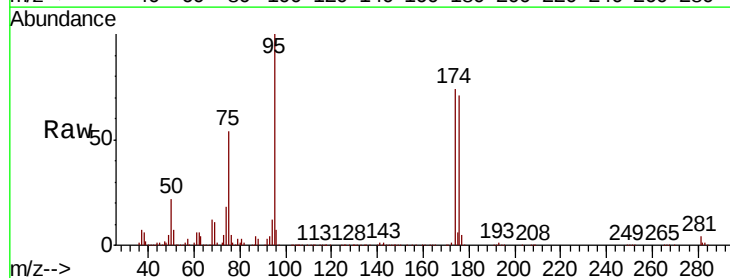
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 T7-S-G1-(2.5)

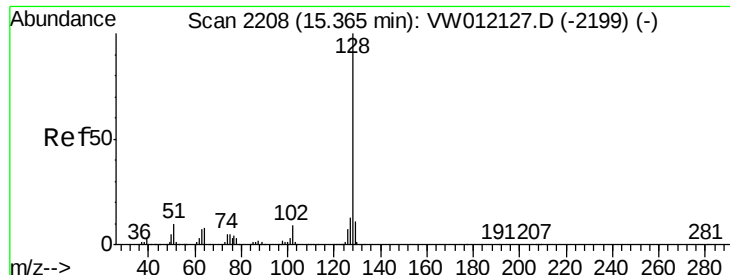
Tgt Ion: 75 Resp: 81185  
 Ion Ratio Lower Upper  
 75 100  
 77 1.2 0.0 0.0#



#81  
 trans-1,4-Dichloro-2-butene  
 Concen: 169.460 ug/l  
 RT: 12.62 min Scan# 1757  
 Delta R.T. 0.10 min  
 Lab File: VW012620.D  
 Acq: 05 Sep 2019 05:42

Tgt Ion: 75 Resp: 81185  
 Ion Ratio Lower Upper  
 75 100  
 53 0.4 89.4 134.0#  
 89 0.0 34.5 51.7#





#95

Naphthalene

Concen: 4.419 ug/l

RT: 15.37 min Scan# 2209

Delta R.T. 0.01 min

Lab File: VW012620.D

Acq: 05 Sep 2019 05:42

Instrument :

MSVOA\_W

ClientSampleId :

T7-S-G1-(2.5)

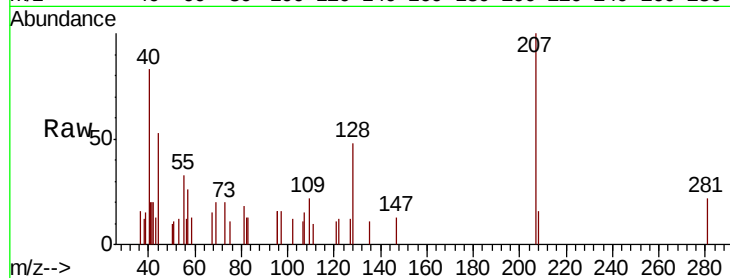
Tgt Ion:128 Resp: 436

Ion Ratio Lower Upper

128 100

127 24.8 10.7 16.1#

129 6.2 8.7 13.1#



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

