

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_W\DATA\VW090119\  
 Data File : VW012443.D  
 Acq On : 01 Sep 2019 13:05  
 Operator : SY/VA  
 Sample : K4475-11RE  
 Misc : 4.89G/5ML/MSVOA\_W/SOIL  
 ALS Vial : 7 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 T1-2-B-(0)RE

Quant Time: Sep 02 07:17:50 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  | 185326   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.84  | 114  | 301872   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.63 | 117  | 213279   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.56 | 152  | 54911    | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units   | Dev(Min) |
|-----------------------------|-------|------|----------|-------|---------|----------|
| 33) 1,2-Dichloroethane-d4   | 8.31  | 65   | 126401   | 57.37 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 114.74% |          |
| 35) Dibromofluoromethane    | 7.88  | 113  | 95996    | 53.28 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 106.56% |          |
| 50) Toluene-d8              | 10.32 | 98   | 353662   | 48.41 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 96.82%  |          |
| 62) 4-Bromofluorobenzene    | 12.62 | 95   | 82530    | 32.05 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 64.10%  |          |

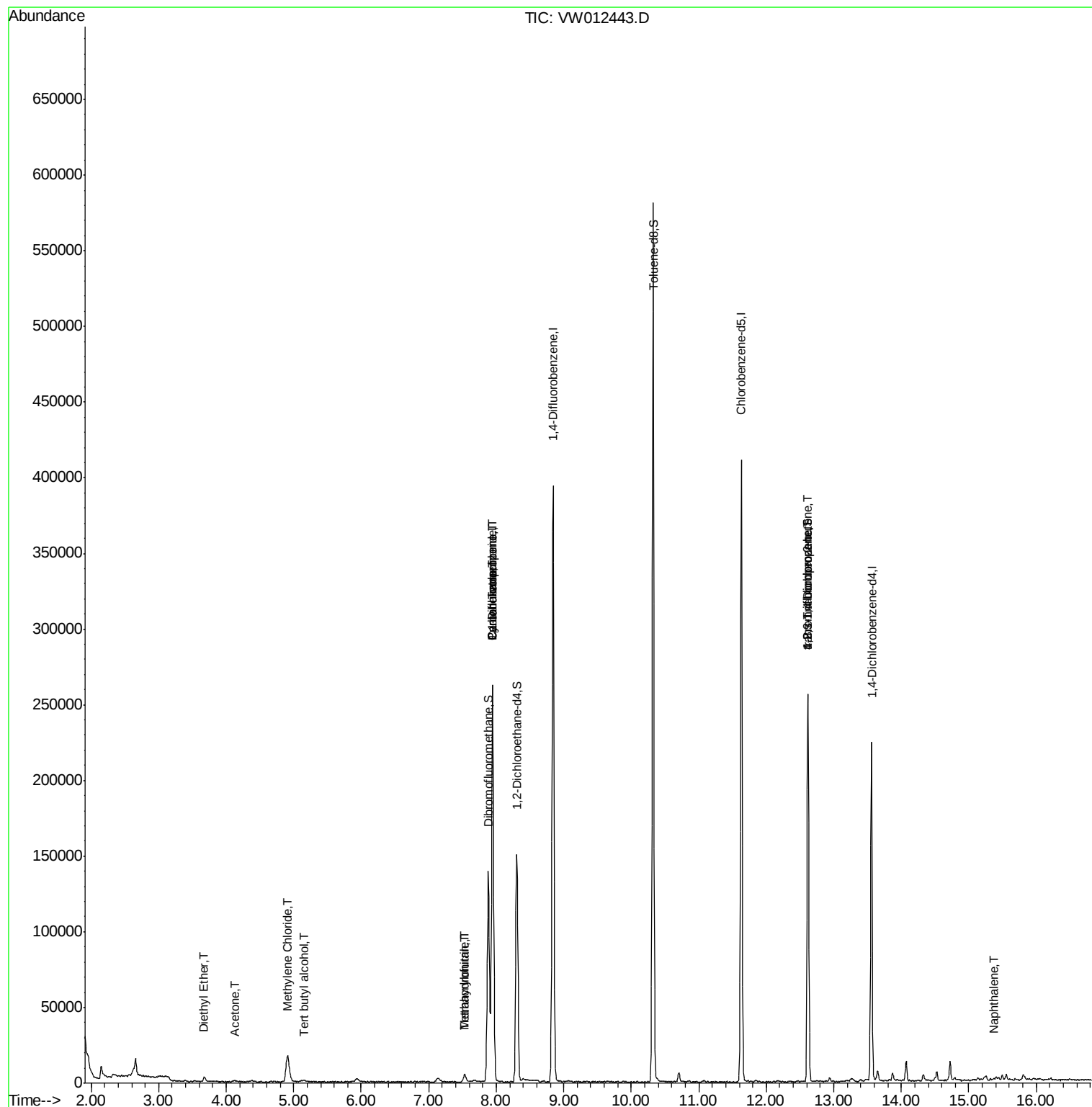
| Target Compounds               | R.T.  | QIon | Response | Conc    | Units  | Qvalue |
|--------------------------------|-------|------|----------|---------|--------|--------|
| 8) Diethyl Ether               | 3.67  | 74   | 1458     | 1.414   | ug/l   | 78     |
| 11) Tert butyl alcohol         | 5.15  | 59   | 1741     | 13.132  | ug/l # | 79     |
| 16) Acetone                    | 4.12  | 43   | 2097     | 3.724   | ug/l # | 85     |
| 20) Methylene Chloride         | 4.91  | 84   | 12897    | 6.058   | ug/l   | 96     |
| 29) Tetrahydrofuran            | 7.54  | 42   | 4264     | 9.287   | ug/l   | 95     |
| 31) Cyclohexane                | 7.95  | 56   | 4741     | 1.195   | ug/l # | 1      |
| 36) 1,1-Dichloropropene        | 7.95  | 75   | 16292    | 5.223   | ug/l # | 52     |
| 38) Carbon Tetrachloride       | 7.95  | 117  | 18329    | 6.789   | ug/l # | 17     |
| 41) Methacrylonitrile          | 7.54  | 41   | 2569     | 2.557   | ug/l # | 50     |
| 76) 1,2,3-Trichloropropane     | 12.62 | 75   | 44835    | 83.836  | ug/l # | 100    |
| 81) trans-1,4-Dichloro-2-buten | 12.62 | 75   | 44835    | 183.814 | ug/l # | 6      |
| 95) Naphthalene                | 15.36 | 128  | 871      | 4.705   | ug/l # | 90     |

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

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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: VW012443.D

Acq: 01 Sep 2019 13:05

Instrument :

MSVOA\_W

ClientSampleId :

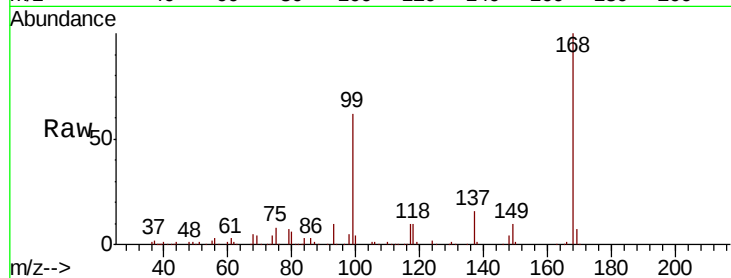
T1-2-B-(0)RE

Tgt Ion:168 Resp: 185326

Ion Ratio Lower Upper

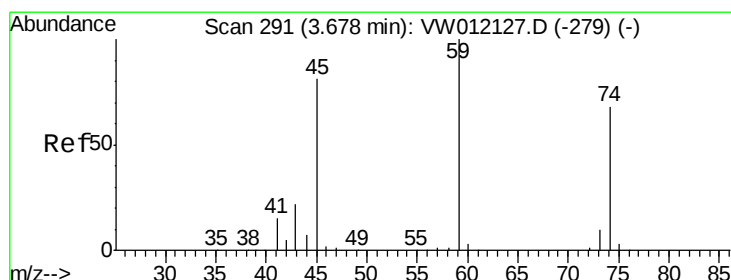
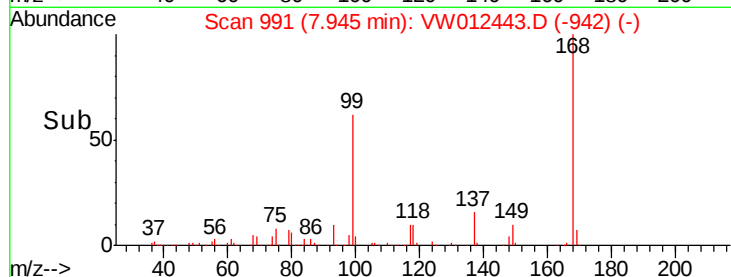
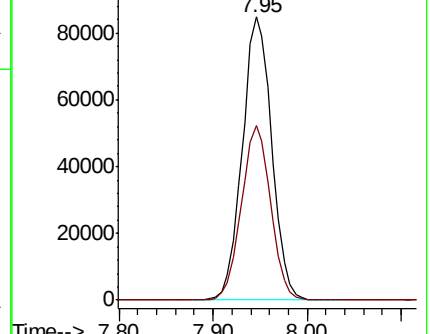
168 100

99 61.7 49.2 73.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW



#8

Diethyl Ether

Concen: 1.414 ug/l

RT: 3.67 min Scan# 290

Delta R.T. -0.01 min

Lab File: VW012443.D

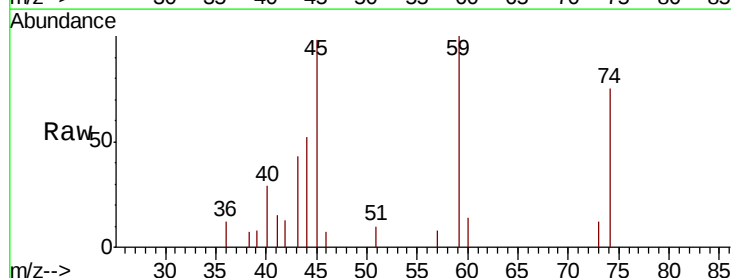
Acq: 01 Sep 2019 13:05

Tgt Ion: 74 Resp: 1458

Ion Ratio Lower Upper

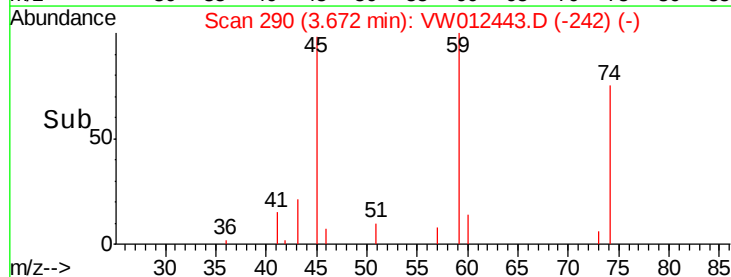
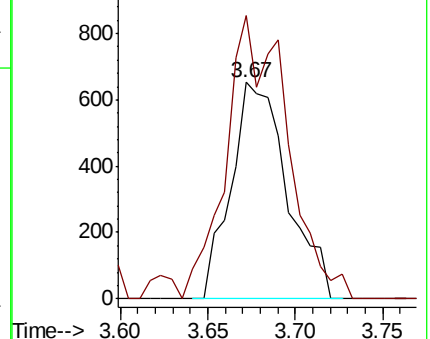
74 100

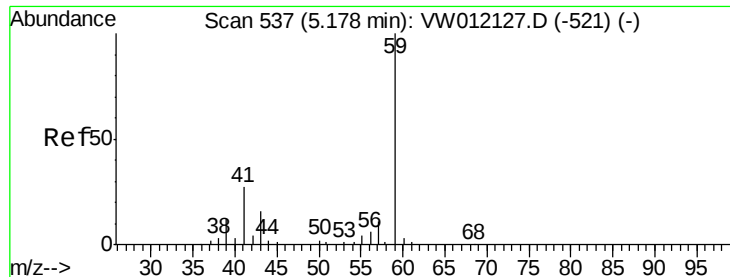
45 142.9 59.2 177.6



Abundance Ion 74.00 (73.70 to 74.70): VW

Ion 45.00 (44.70 to 45.70): VW

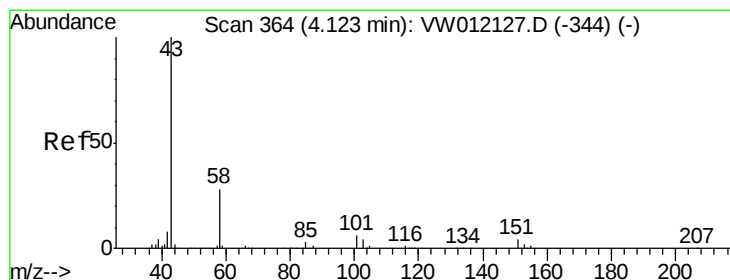
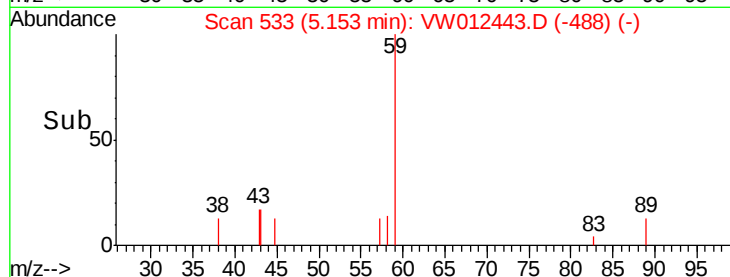
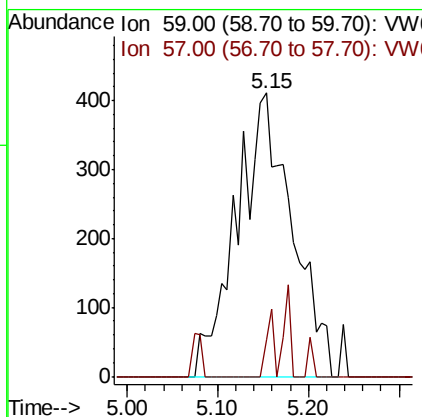
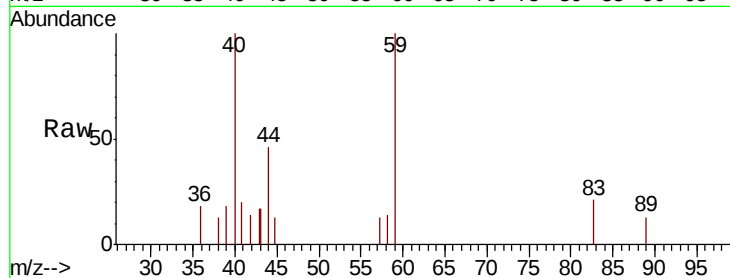




#11  
Tert butyl alcohol  
Concen: 13.132 ug/l  
RT: 5.15 min Scan# 533  
Delta R.T. -0.02 min  
Lab File: VW012443.D  
Acq: 01 Sep 2019 13:05

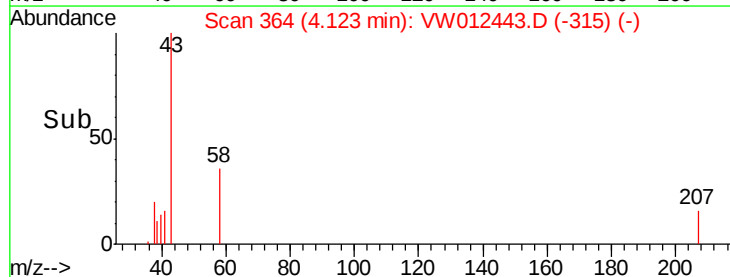
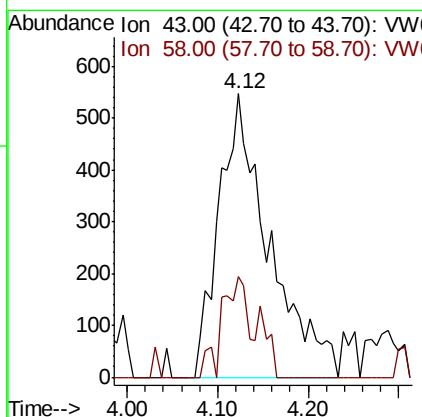
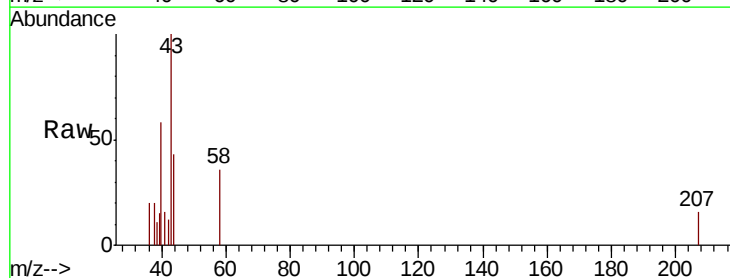
Instrument :  
MSVOA\_W  
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T1-2-B-(0)RE

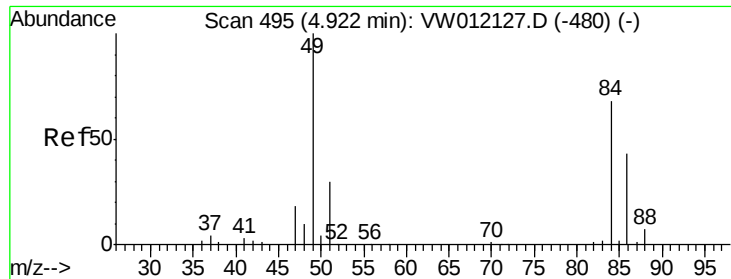
Tgt Ion: 59 Resp: 1741  
Ion Ratio Lower Upper  
59 100  
57 3.2 9.0 13.4#



#16  
Acetone  
Concen: 3.724 ug/l  
RT: 4.12 min Scan# 364  
Delta R.T. -0.00 min  
Lab File: VW012443.D  
Acq: 01 Sep 2019 13:05

Tgt Ion: 43 Resp: 2097  
Ion Ratio Lower Upper  
43 100  
58 35.6 22.4 33.6#

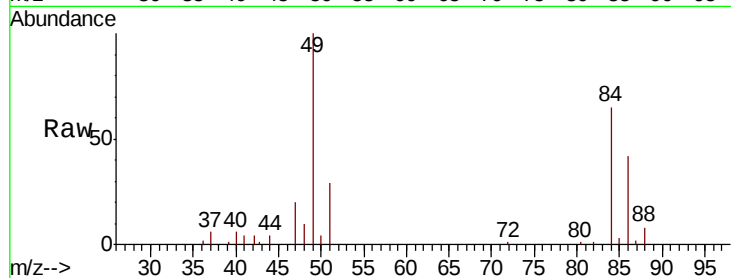




#20  
Methylene Chloride  
Concen: 6.058 ug/l  
RT: 4.91 min Scan# 493  
Delta R.T. -0.01 min  
Lab File: VW012443.D  
Acq: 01 Sep 2019 13:05

Instrument :  
MSVOA\_W  
ClientSampleId :  
T1-2-B-(0)RE

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 84    | Resp: | 12897 |
| Ion      | Ratio | Lower | Upper |
| 84       | 100   |       |       |
| 49       | 154.2 | 117.8 | 176.8 |
| 51       | 45.3  | 35.6  | 53.4  |
| 86       | 65.3  | 51.2  | 76.8  |



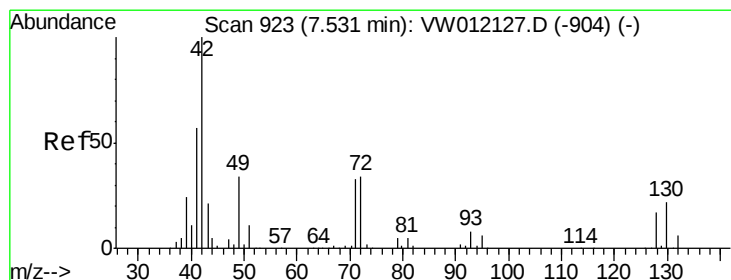
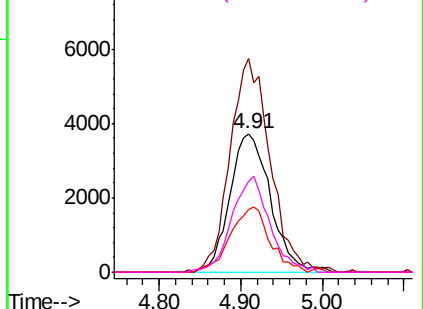
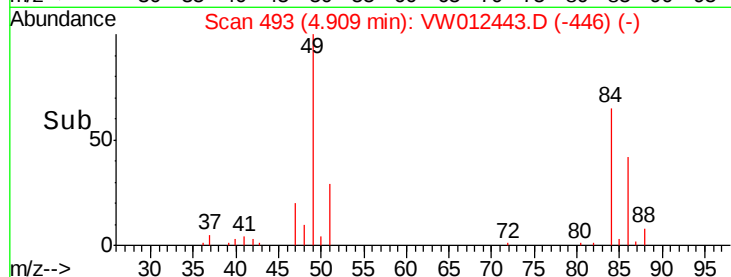
Abundance

Ion 83.90 (83.60 to 84.60): VW

Ion 48.90 (48.60 to 49.60): VW

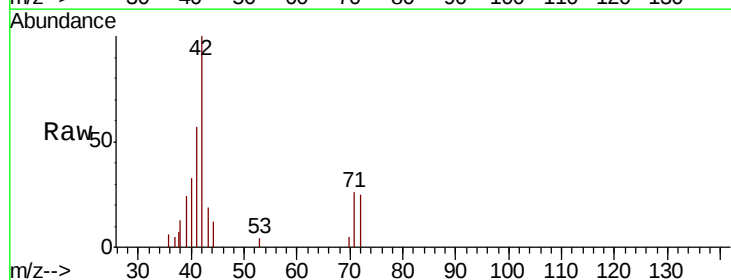
Ion 50.90 (50.60 to 51.60): VW

Ion 85.90 (85.60 to 86.60): VW



#29  
Tetrahydrofuran  
Concen: 9.287 ug/l  
RT: 7.54 min Scan# 924  
Delta R.T. 0.01 min  
Lab File: VW012443.D  
Acq: 01 Sep 2019 13:05

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 42    | Resp: | 4264  |
| Ion      | Ratio | Lower | Upper |
| 42       | 100   |       |       |
| 72       | 30.1  | 27.3  | 40.9  |
| 71       | 30.4  | 25.5  | 38.3  |

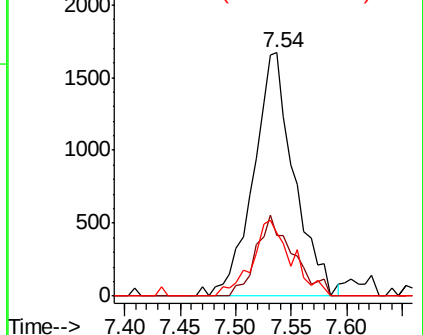
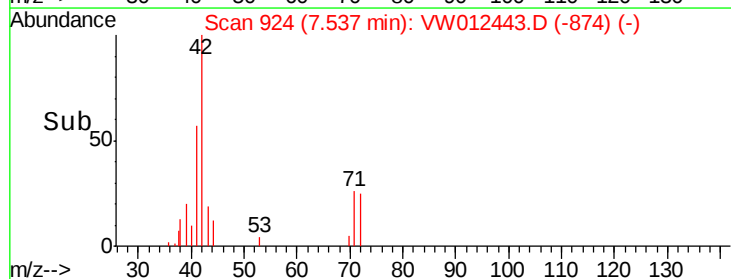


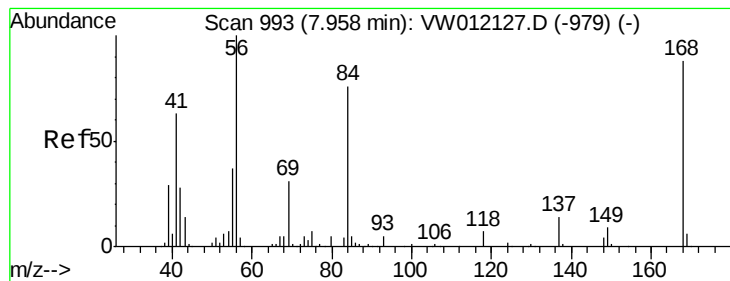
Abundance

Ion 42.00 (41.70 to 42.70): VW

Ion 72.00 (71.70 to 72.70): VW

Ion 71.00 (70.70 to 71.70): VW





#31

Cyclohexane

Concen: 1.195 ug/l

RT: 7.95 min Scan# 991

Delta R.T. -0.01 min

Lab File: VW012443.D

Acq: 01 Sep 2019 13:05

Instrument :

MSVOA\_W

ClientSampleId :

T1-2-B-(0)RE

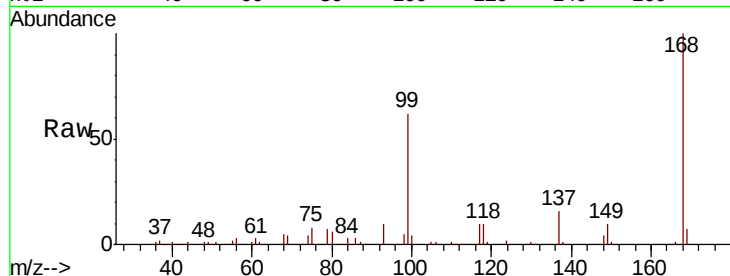
Tgt Ion: 56 Resp: 4741

Ion Ratio Lower Upper

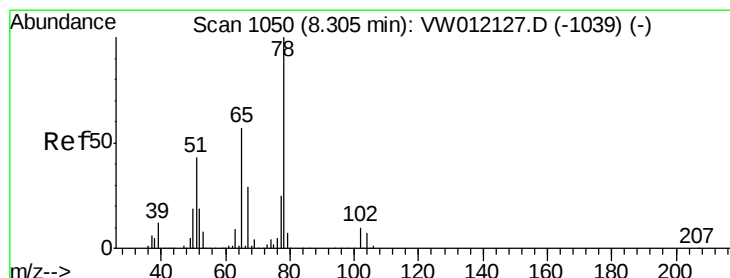
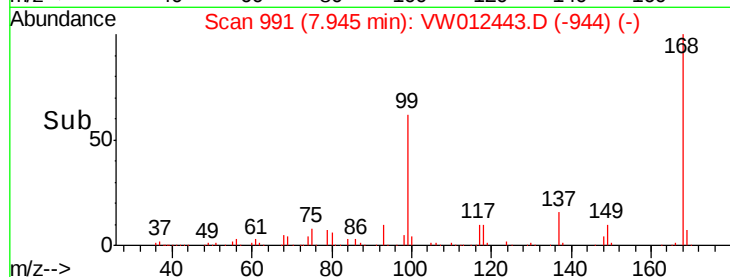
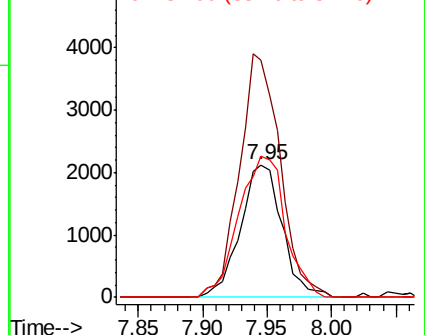
56 100

69 178.6 24.9 37.3#

84 106.1 60.6 90.8#



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: 57.375 ug/l

RT: 8.31 min Scan# 1050

Delta R.T. -0.00 min

Lab File: VW012443.D

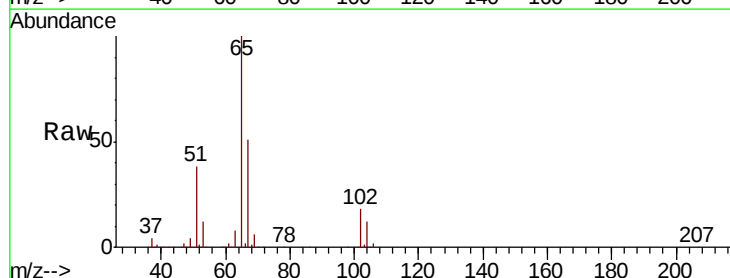
Acq: 01 Sep 2019 13:05

Tgt Ion: 65 Resp: 126401

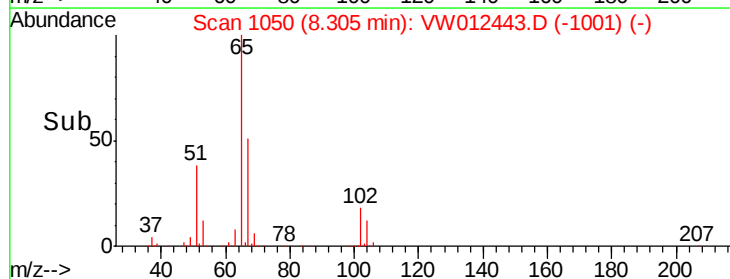
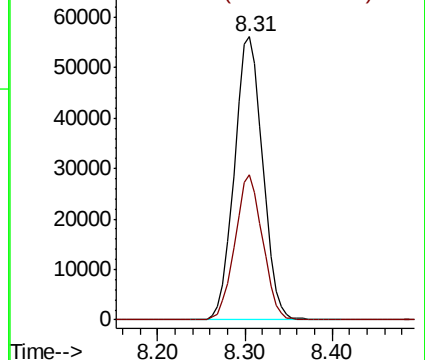
Ion Ratio Lower Upper

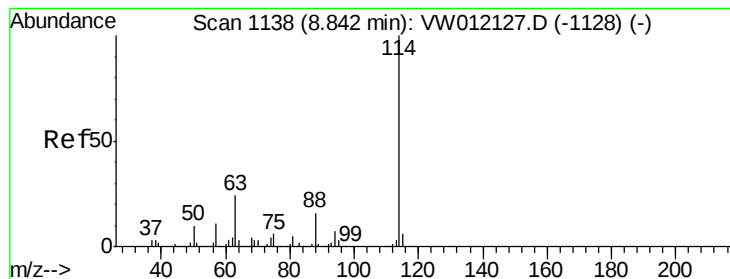
65 100

67 50.1 0.0 102.6



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: VW012443.D

Acq: 01 Sep 2019 13:05

Instrument :

MSVOA\_W

ClientSampleId :

T1-2-B-(0)RE

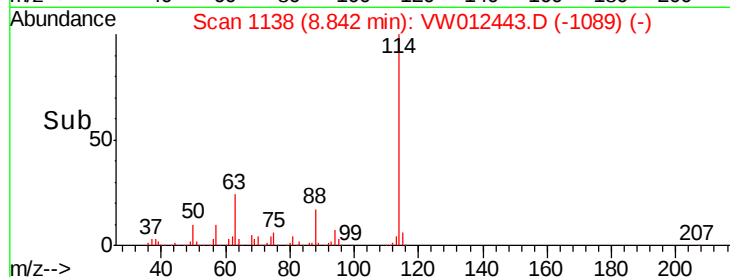
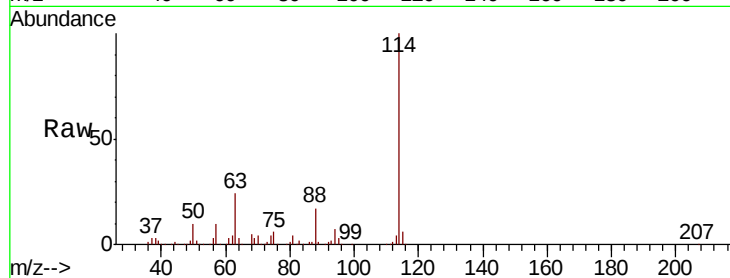
Tgt Ion:114 Resp: 301872

Ion Ratio Lower Upper

114 100

63 24.2 0.0 48.6

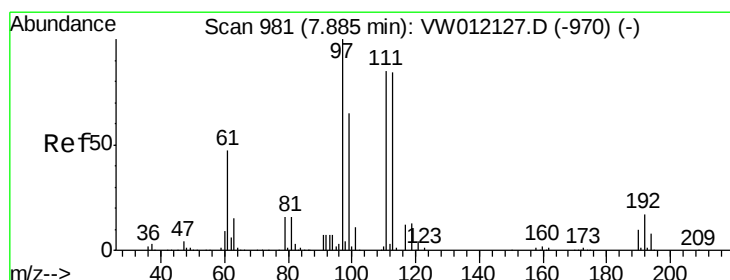
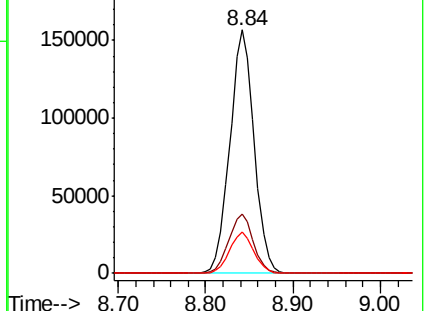
88 16.9 0.0 32.2



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: 53.275 ug/l

RT: 7.88 min Scan# 981

Delta R.T. -0.00 min

Lab File: VW012443.D

Acq: 01 Sep 2019 13:05

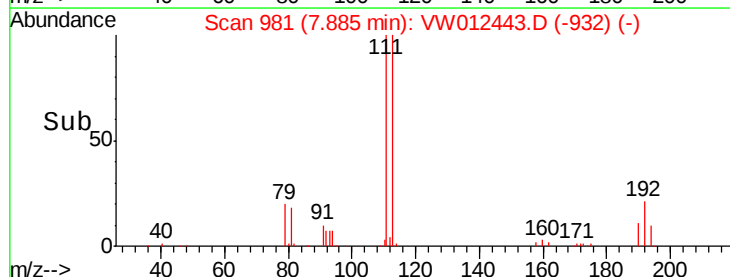
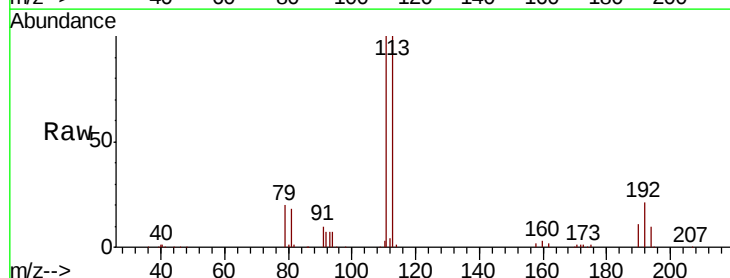
Tgt Ion:113 Resp: 95996

Ion Ratio Lower Upper

113 100

111 104.3 82.7 124.1

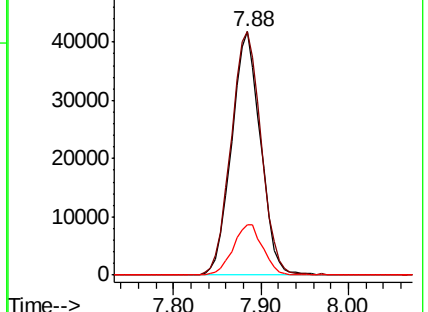
192 21.2 16.2 24.2

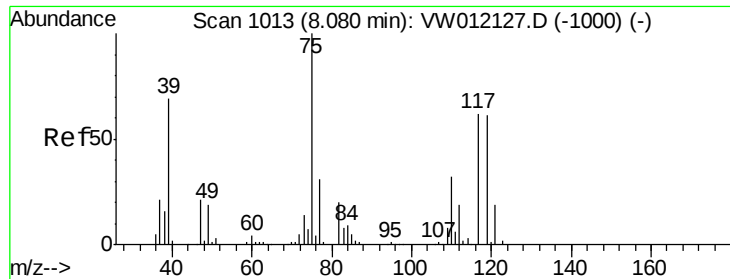


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

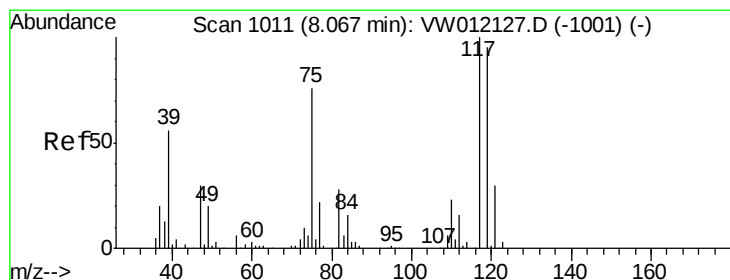
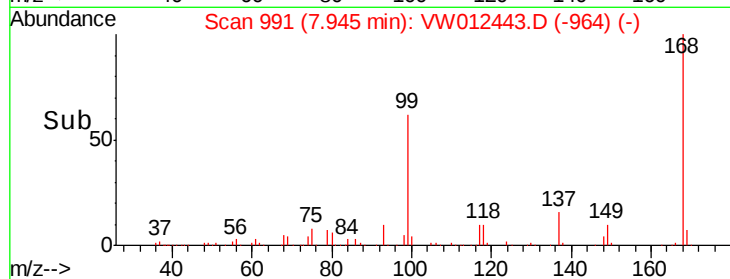
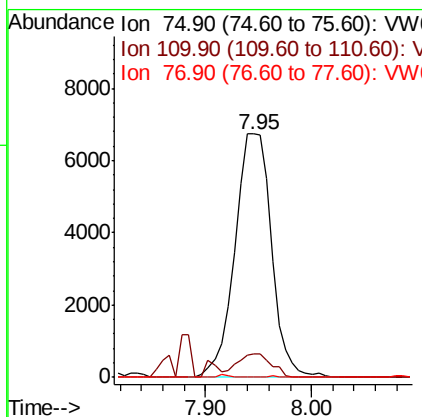
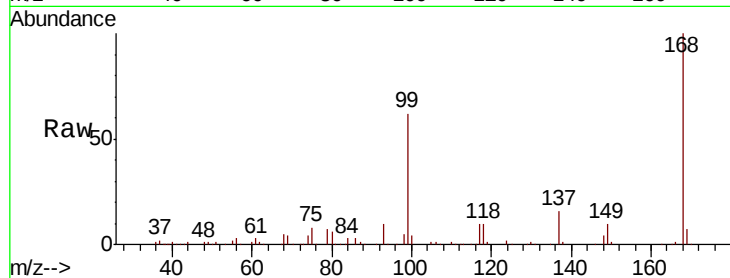




#36  
 1,1-Dichloropropene  
 Concen: 5.223 ug/l  
 RT: 7.95 min Scan# 991  
 Delta R.T. -0.13 min  
 Lab File: VW012443.D  
 Acq: 01 Sep 2019 13:05

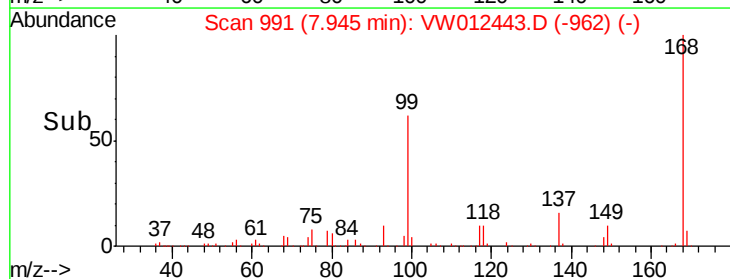
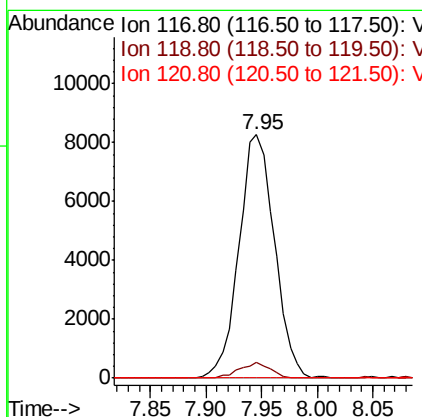
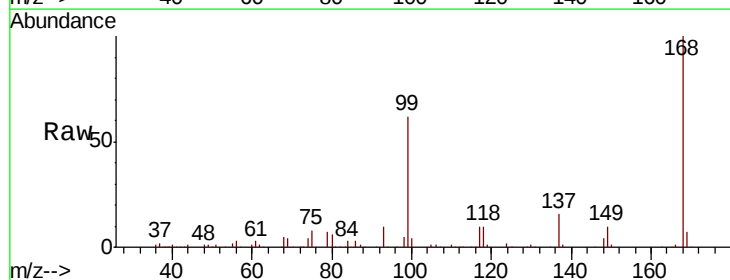
Instrument :  
 MSVOA\_W  
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 T1-2-B-(0)RE

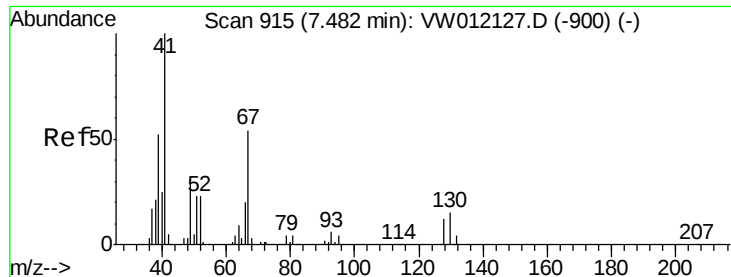
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 75      | 100   |       |       |
| 110     | 9.0   | 15.6  | 46.8# |
| 77      | 0.1   | 24.6  | 36.8# |



#38  
 Carbon Tetrachloride  
 Concen: 6.789 ug/l  
 RT: 7.95 min Scan# 991  
 Delta R.T. -0.12 min  
 Lab File: VW012443.D  
 Acq: 01 Sep 2019 13:05

| Tgt Ion | Ratio | Lower | Upper  |
|---------|-------|-------|--------|
| 117     | 100   |       |        |
| 119     | 6.6   | 76.2  | 114.2# |
| 121     | 0.0   | 23.8  | 35.8#  |

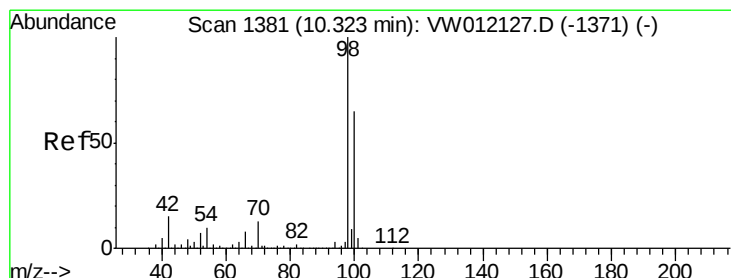
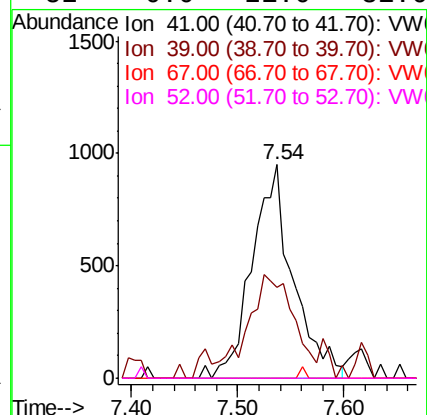
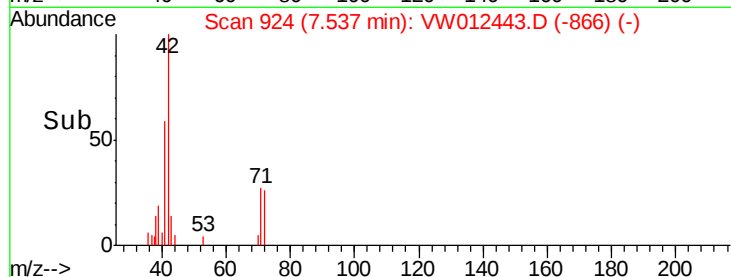
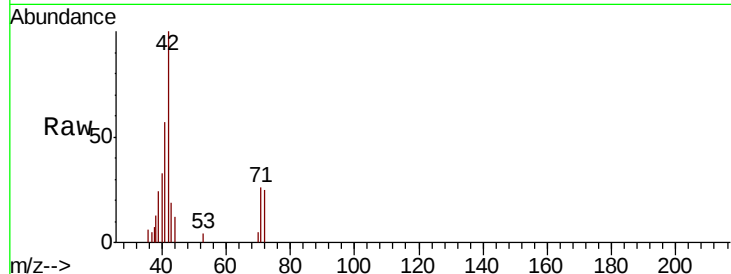




#41  
Methacrylonitrile  
Concen: 2.557 ug/l  
RT: 7.54 min Scan# 924  
Delta R.T. 0.05 min  
Lab File: VW012443.D  
Acq: 01 Sep 2019 13:05

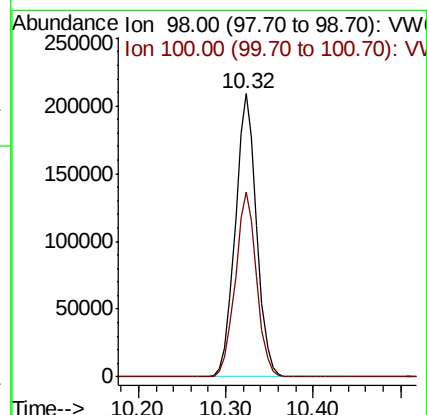
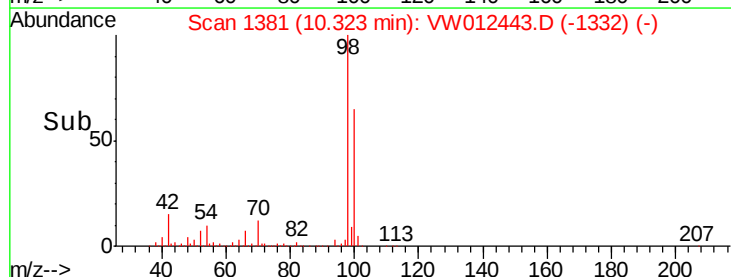
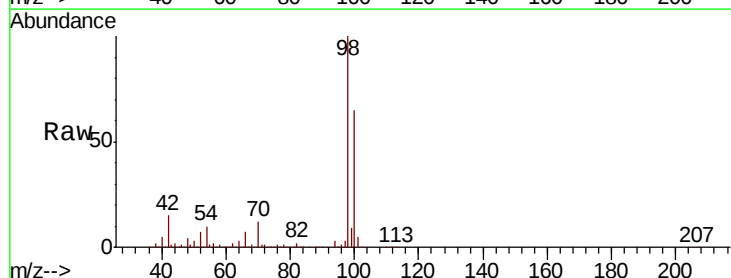
Instrument :  
MSVOA\_W  
ClientSampleId :  
T1-2-B-(0)RE

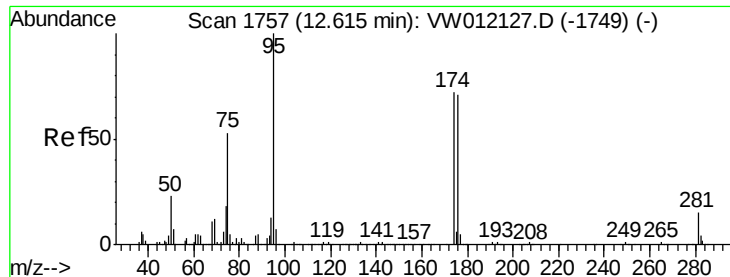
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 41      | 100   |       |       |
| 39      | 40.9  | 45.8  | 68.8# |
| 67      | 0.0   | 46.2  | 69.4# |
| 52      | 0.0   | 21.0  | 31.6# |



#50  
Toluene-d8  
Concen: 48.406 ug/l  
RT: 10.32 min Scan# 1381  
Delta R.T. -0.00 min  
Lab File: VW012443.D  
Acq: 01 Sep 2019 13:05

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 98      | 100   |       |       |
| 100     | 65.2  | 52.4  | 78.6  |

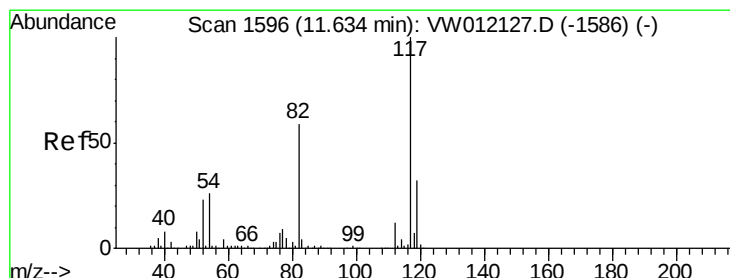
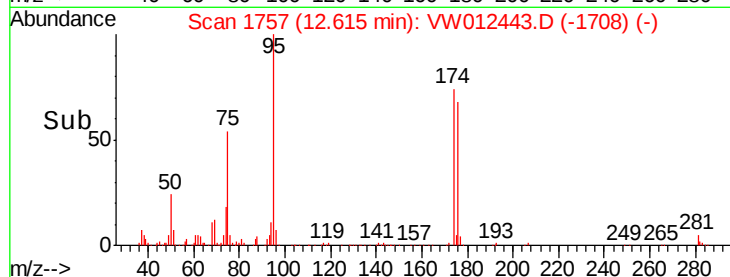
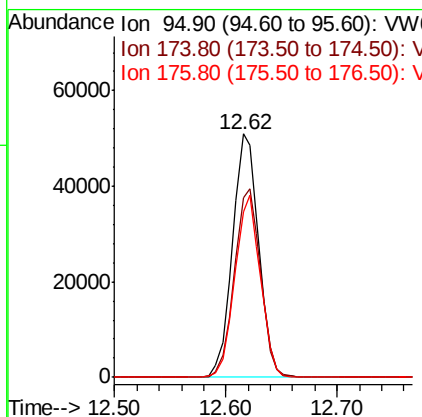
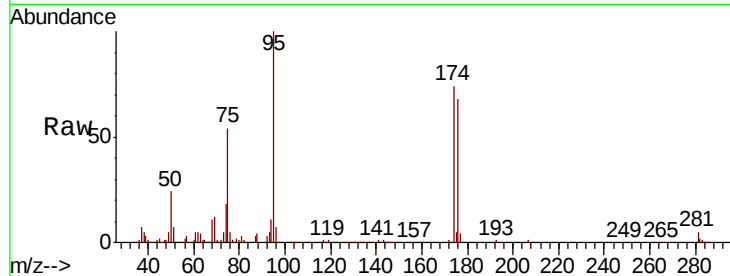




#62  
4-Bromofluorobenzene  
Concen: 32.046 ug/l  
RT: 12.62 min Scan# 1757  
Delta R.T. -0.00 min  
Lab File: VW012443.D  
Acq: 01 Sep 2019 13:05

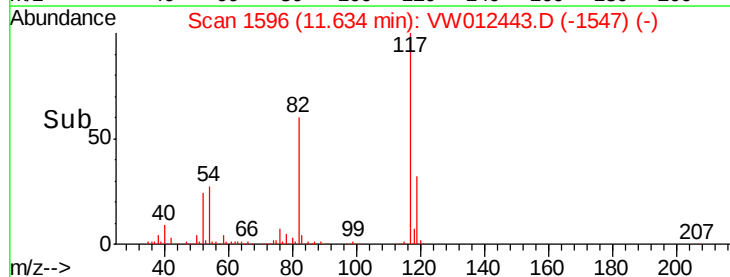
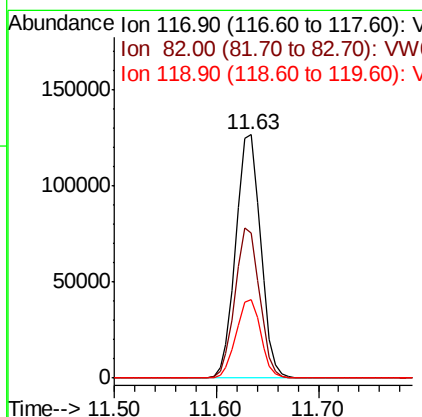
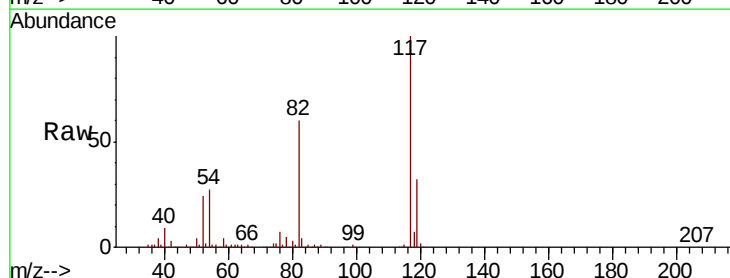
Instrument :  
MSVOA\_W  
ClientSampleId :  
T1-2-B-(0)RE

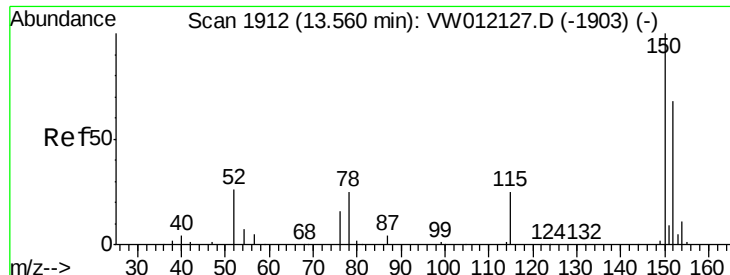
Tgt Ion: 95 Resp: 82530  
Ion Ratio Lower Upper  
95 100  
174 77.5 0.0 150.8  
176 73.0 0.0 148.6



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.63 min Scan# 1596  
Delta R.T. -0.00 min  
Lab File: VW012443.D  
Acq: 01 Sep 2019 13:05

Tgt Ion: 117 Resp: 213279  
Ion Ratio Lower Upper  
117 100  
82 59.5 47.4 71.2  
119 32.5 25.4 38.2





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.56 min Scan# 1912

Delta R.T. -0.00 min

Lab File: VW012443.D

Acq: 01 Sep 2019 13:05

Instrument :

MSVOA\_W

ClientSampleId :

T1-2-B-(0)RE

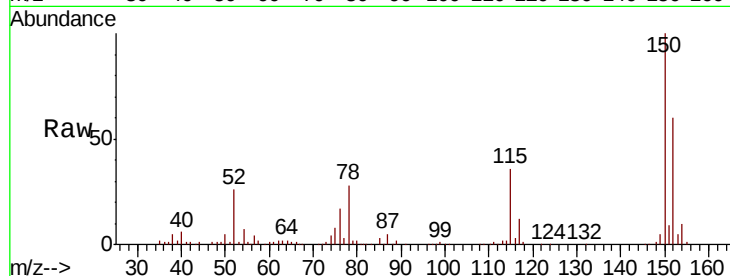
Tgt Ion:152 Resp: 54911

Ion Ratio Lower Upper

152 100

115 61.6 30.1 90.3

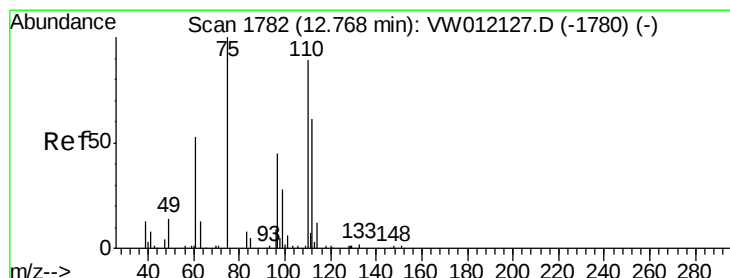
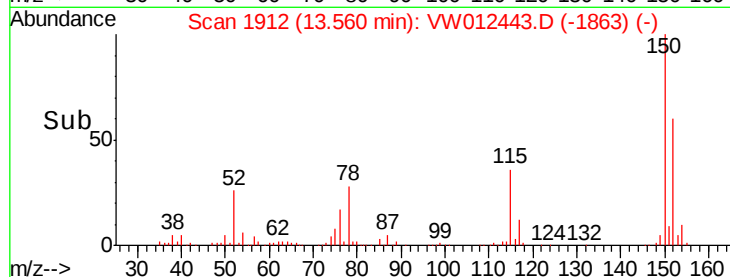
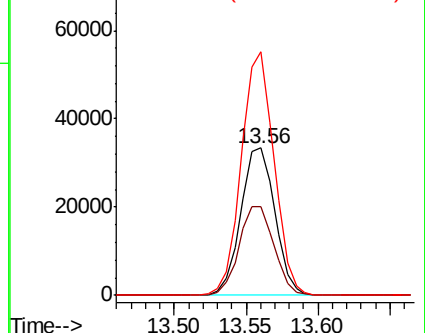
150 158.3 0.0 345.8



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: 83.836 ug/l

RT: 12.62 min Scan# 1757

Delta R.T. -0.15 min

Lab File: VW012443.D

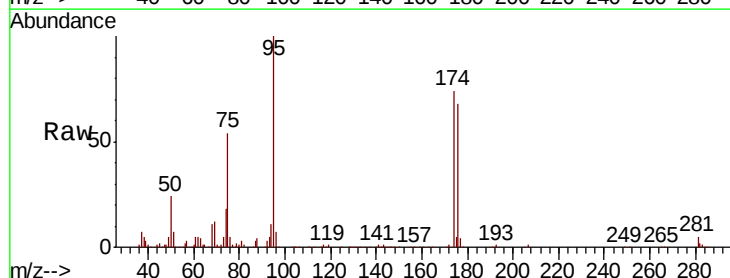
Acq: 01 Sep 2019 13:05

Tgt Ion: 75 Resp: 44835

Ion Ratio Lower Upper

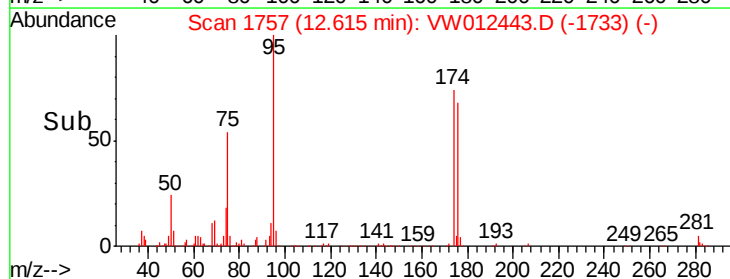
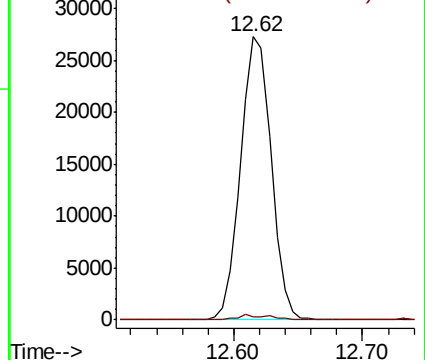
75 100

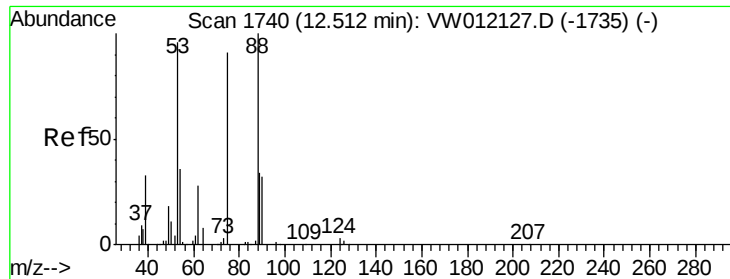
77 1.7 0.0 0.0#



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: 183.814 ug/l

RT: 12.62 min Scan# 1757

Delta R.T. 0.10 min

Lab File: VW012443.D

Acq: 01 Sep 2019 13:05

Instrument :

MSVOA\_W

ClientSampleId :

T1-2-B-(0)RE

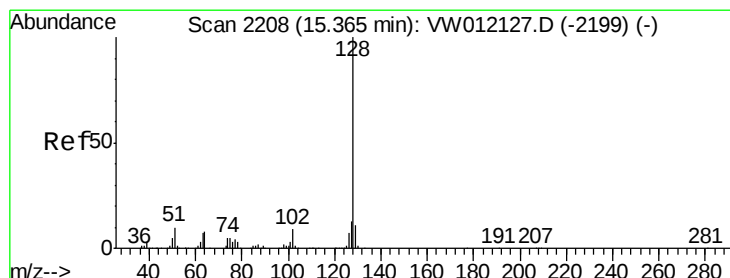
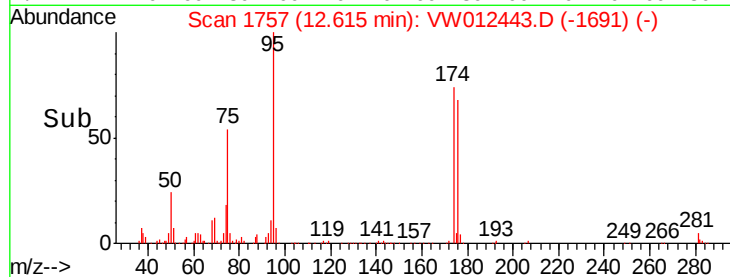
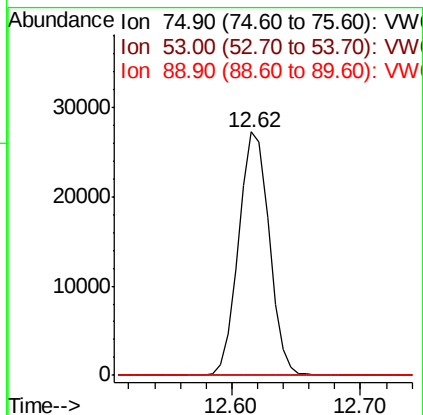
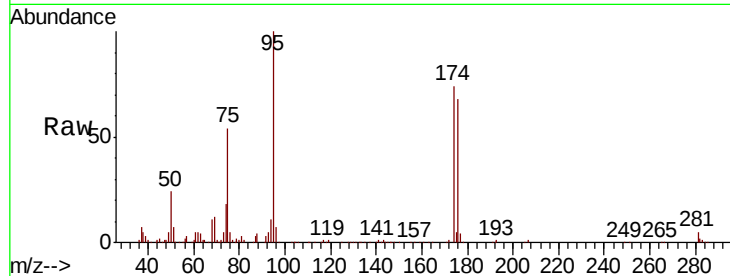
Tgt Ion: 75 Resp: 44835

Ion Ratio Lower Upper

75 100

53 0.4 89.4 134.0#

89 0.0 34.5 51.7#



#95

Naphthalene

Concen: 4.705 ug/l

RT: 15.36 min Scan# 2208

Delta R.T. 0.00 min

Lab File: VW012443.D

Acq: 01 Sep 2019 13:05

Tgt Ion: 128 Resp: 871

Ion Ratio Lower Upper

128 100

127 12.7 10.7 16.1

129 3.4 8.7 13.1#

