

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW081919\  
 Data File : VW011983.D  
 Acq On : 19 Aug 2019 11:40  
 Operator : SY/VA  
 Sample : K4385-03  
 Misc : 5.73G/5ML/MSVOA W/SOIL  
 ALS Vial : 8 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :

Quant Time: Aug 19 12:12:13 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  | 224243   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.84  | 114  | 373137   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.63 | 117  | 273821   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.56 | 152  | 77382    | 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   | 141808   | 55.07 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 110.14% |          |
| 35) Dibromofluoromethane    | 7.88  | 113  | 115469   | 55.16 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 110.32% |          |
| 50) Toluene-d8              | 10.32 | 98   | 435741   | 50.84 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 101.68% |          |
| 62) 4-Bromofluorobenzene    | 12.62 | 95   | 114475   | 37.46 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 74.92%  |          |

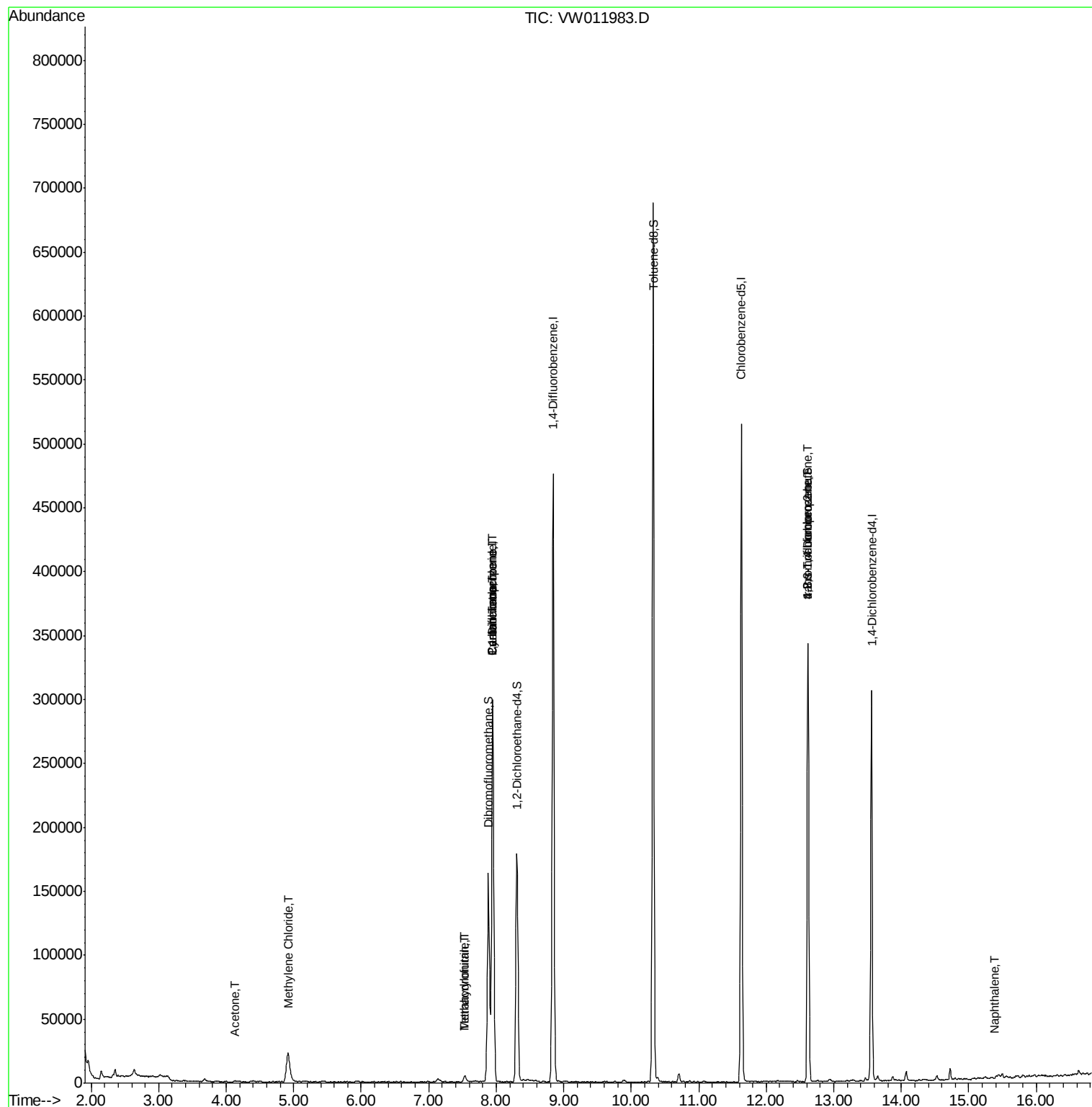
| Target Compounds               | R.T.  | QIon | Response | Conc      | Units  | Qvalue |
|--------------------------------|-------|------|----------|-----------|--------|--------|
| 11) Tert butyl alcohol         | 5.16  | 59   | 1431     | Below Cal | #      | 72     |
| 16) Acetone                    | 4.14  | 43   | 1755     | 2.143     | ug/l   | 97     |
| 20) Methylene Chloride         | 4.92  | 84   | 17904    | 6.338     | ug/l   | 95     |
| 29) Tetrahydrofuran            | 7.53  | 42   | 4533     | 7.399     | ug/l # | 89     |
| 31) Cyclohexane                | 7.95  | 56   | 5224     | 1.085     | ug/l # | 1      |
| 36) 1,1-Dichloropropene        | 7.95  | 75   | 19151    | 4.936     | ug/l # | 52     |
| 38) Carbon Tetrachloride       | 7.95  | 117  | 22353    | 6.730     | ug/l # | 16     |
| 41) Methacrylonitrile          | 7.54  | 41   | 2736     | 2.050     | ug/l # | 55     |
| 76) 1,2,3-Trichloropropane     | 12.62 | 75   | 58922    | 71.962    | ug/l # | 100    |
| 81) trans-1,4-Dichloro-2-buten | 12.62 | 75   | 58922    | 165.848   | ug/l # | 6      |
| 95) Naphthalene                | 15.37 | 128  | 354      | 2.177     | ug/l # | 77     |

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

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Quant Time: Aug 19 12:12:13 2019  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\82W072719S.M  
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: VW011983.D

Acq: 19 Aug 2019 11:40

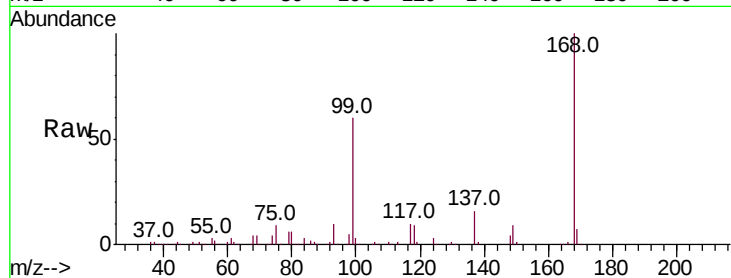
Instrument :  
MSVOA\_W  
ClientSampled :

Tot Ion:168 Resp: 224243

Ion Ratio Lower Upper

168 100

99 59.9 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

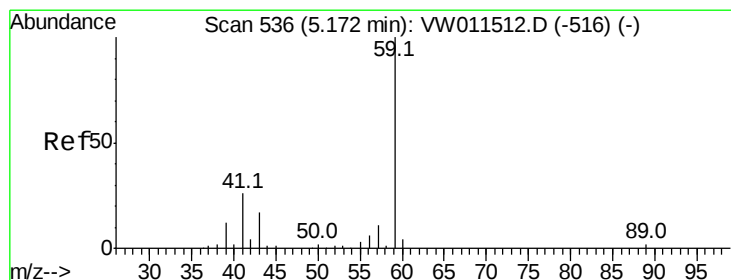
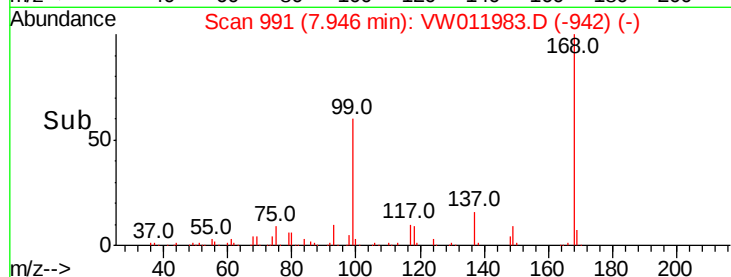
60000

40000

20000

0

Time--> 7.80 7.90 8.00 8.10



#11

Tert butyl alcohol

Concen: Below Cal

RT: 5.16 min Scan# 534

Delta R.T. -0.01 min

Lab File: VW011983.D

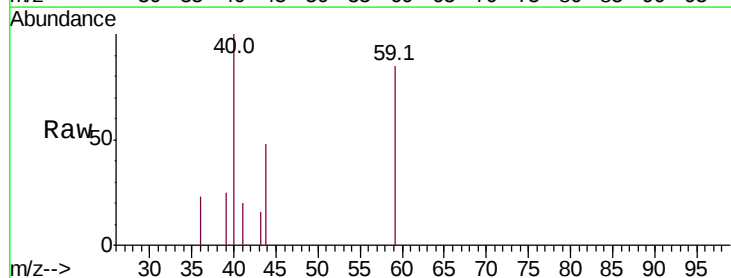
Acq: 19 Aug 2019 11:40

Tgt Ion: 59 Resp: 1431

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

5.16

500

400

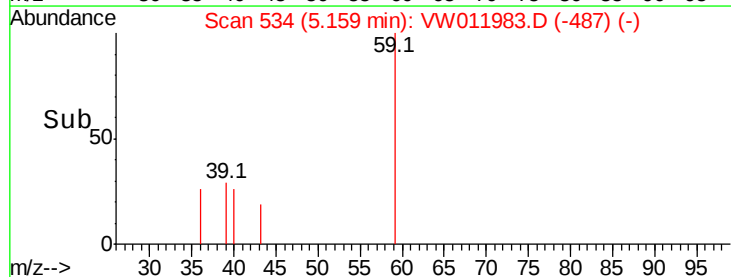
300

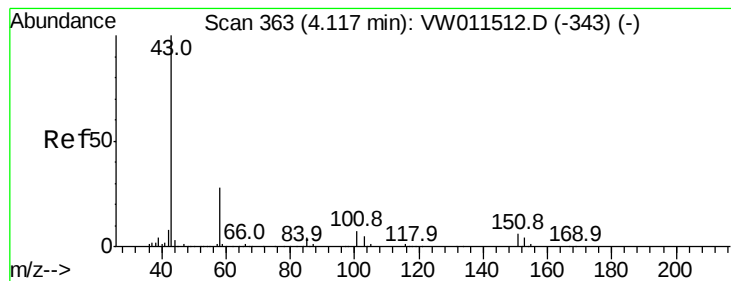
200

100

0

Time--> 5.10 5.15 5.20 5.25





#16

Acetone

Concen: 2.143 ug/l

RT: 4.14 min Scan# 366

Delta R.T. 0.02 min

Lab File: VW011983.D

Acq: 19 Aug 2019 11:40

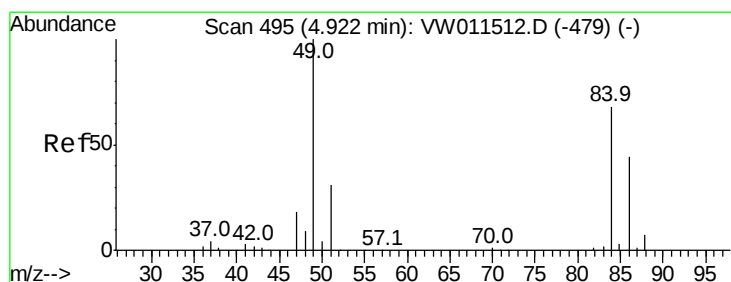
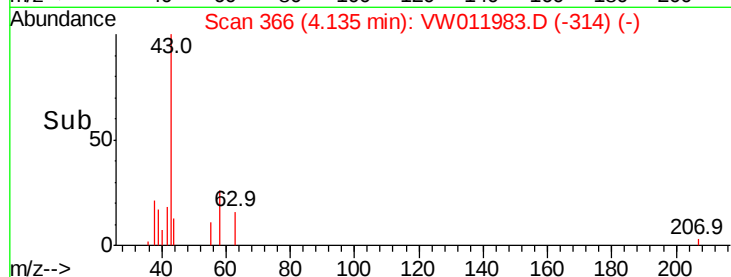
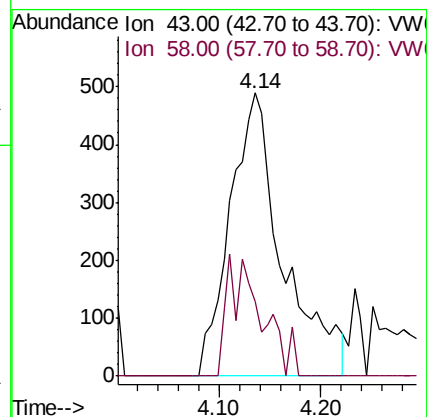
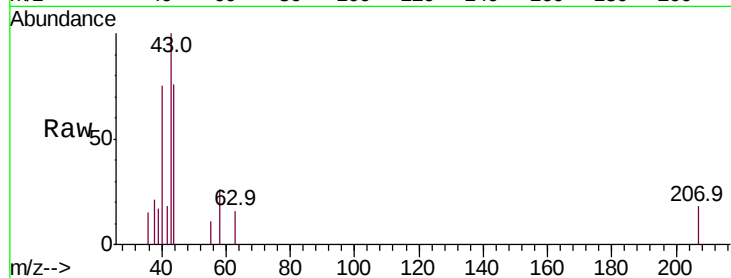
Instrument :  
MSVOA\_W  
ClientSampled :

Tot Ion: 43 Resp: 1755

Ion Ratio Lower Upper

43 100

58 26.4 22.3 33.5



#20

Methylene Chloride

Concen: 6.338 ug/l

RT: 4.92 min Scan# 495

Delta R.T. 0.00 min

Lab File: VW011983.D

Acq: 19 Aug 2019 11:40

Tgt Ion: 84 Resp: 17904

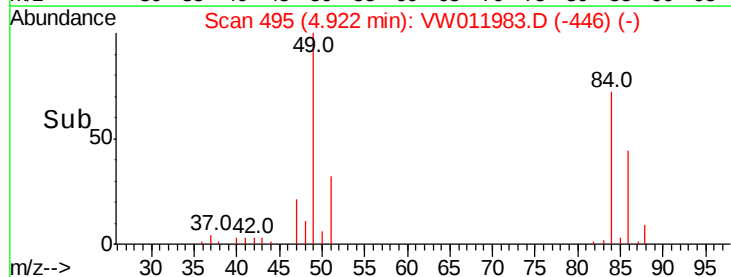
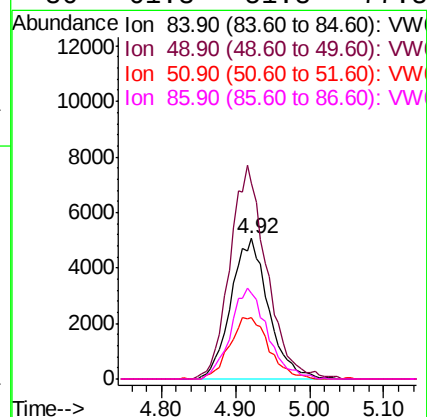
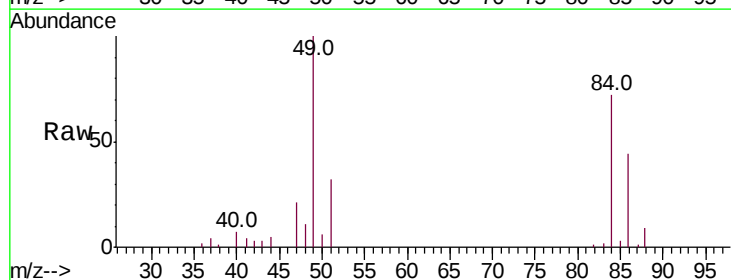
Ion Ratio Lower Upper

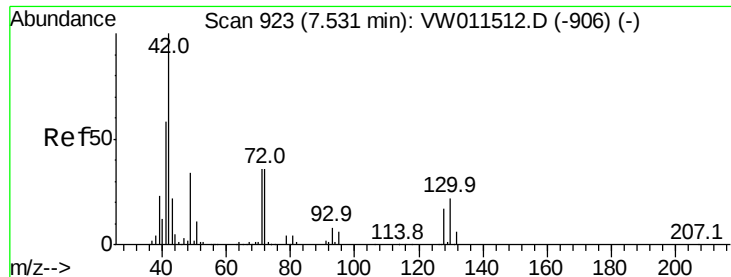
84 100

49 139.2 117.8 176.6

51 44.1 37.0 55.4

86 61.3 51.8 77.8

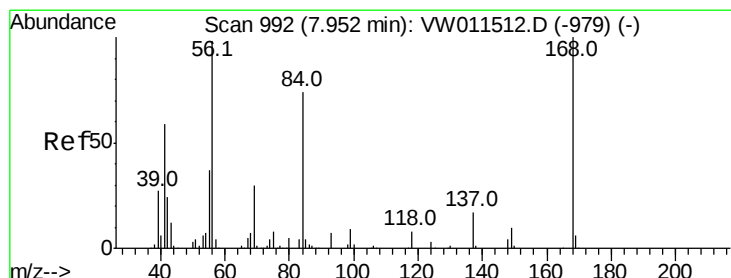
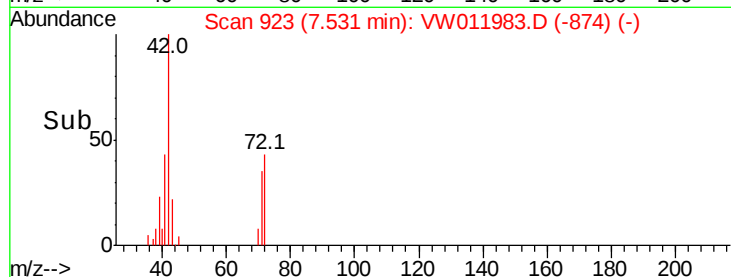
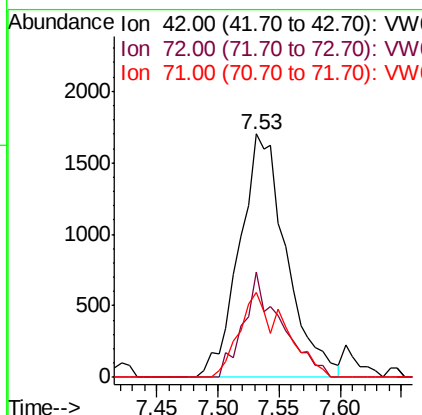
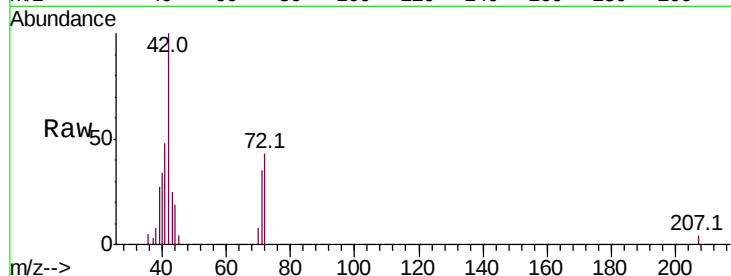




#29  
Tetrahydrofuran  
Concen: 7.399 ug/l  
RT: 7.53 min Scan# 923  
Delta R.T. 0.00 min  
Lab File: VW011983.D  
Acq: 19 Aug 2019 11:40

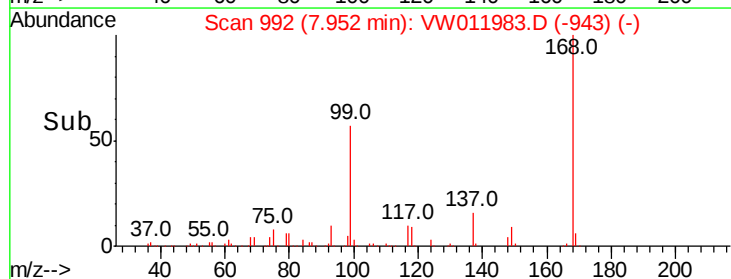
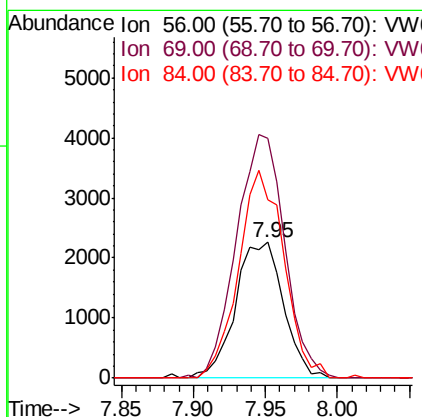
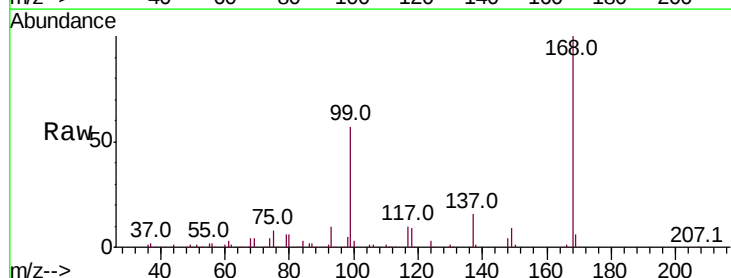
Instrument :  
MSVOA\_W  
ClientSampleId :

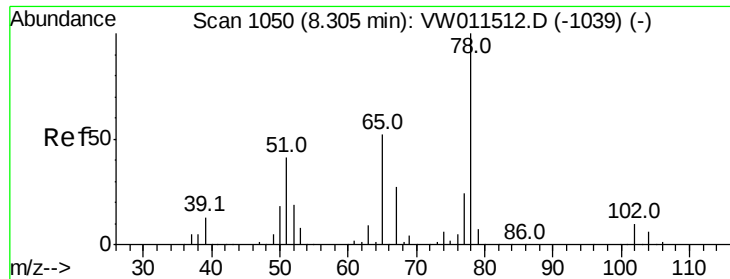
Tot Ion: 42 Resp: 4533  
Ion Ratio Lower Upper  
42 100  
72 34.7 27.1 40.7  
71 21.2 26.2 39.4#



#31  
Cyclohexane  
Concen: 1.085 ug/l  
RT: 7.95 min Scan# 992  
Delta R.T. 0.00 min  
Lab File: VW011983.D  
Acq: 19 Aug 2019 11:40

Tgt Ion: 56 Resp: 5224  
Ion Ratio Lower Upper  
56 100  
69 176.5 24.3 36.5#  
84 131.7 60.4 90.6#

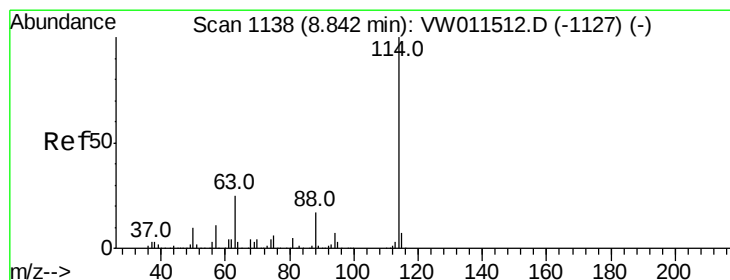
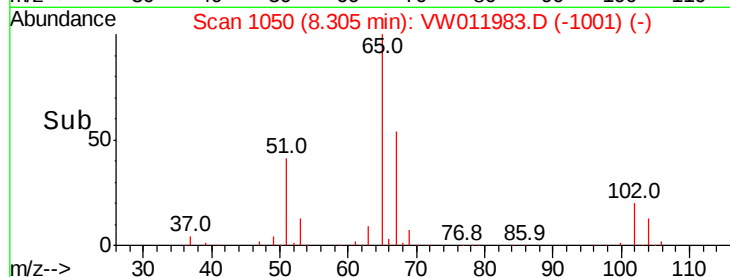
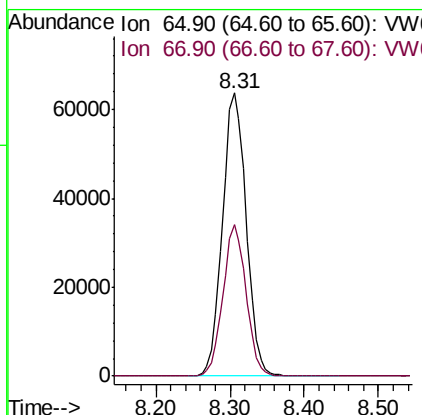
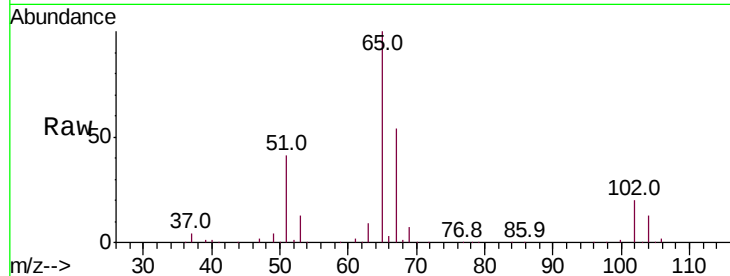




#33  
 1,2-Dichloroethane-d4  
 Concen: 55.072 ug/l  
 RT: 8.31 min Scan# 1050  
 Delta R.T. 0.00 min  
 Lab File: VW011983.D  
 Acq: 19 Aug 2019 11:40

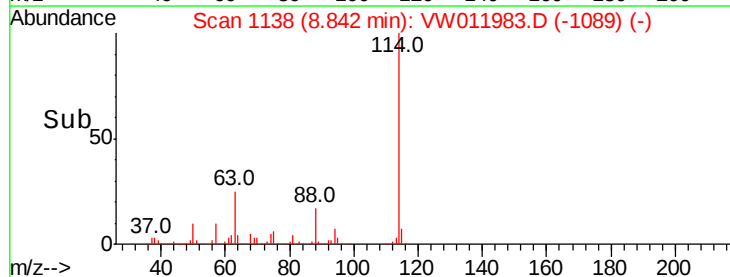
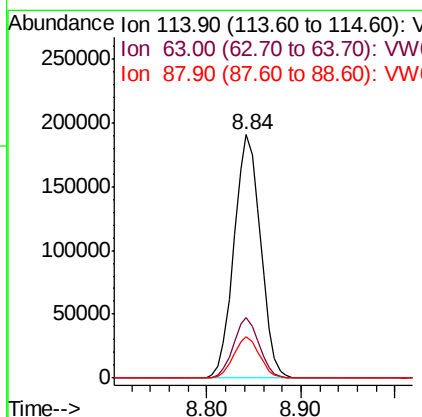
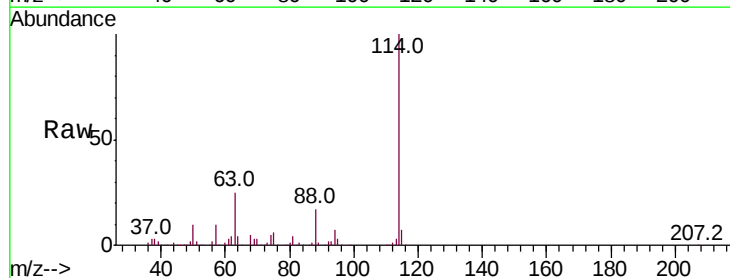
Instrument :  
 MSVOA\_W  
 ClientSampleId :

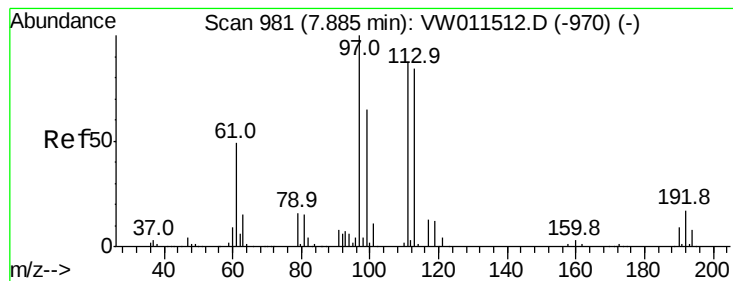
Tot Ion: 65 Resp: 141808  
 Ion Ratio Lower Upper  
 65 100  
 67 51.9 0.0 105.2



#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.84 min Scan# 1138  
 Delta R.T. 0.00 min  
 Lab File: VW011983.D  
 Acq: 19 Aug 2019 11:40

Tgt Ion: 114 Resp: 373137  
 Ion Ratio Lower Upper  
 114 100  
 63 24.9 0.0 49.2  
 88 17.1 0.0 33.8





#35

Dibromofluoromethane

Concen: 55.160 ug/l

RT: 7.88 min Scan# 981

Delta R.T. 0.00 min

Lab File: VW011983.D

Acq: 19 Aug 2019 11:40

Instrument :  
MSVOA\_W  
ClientSampleId :

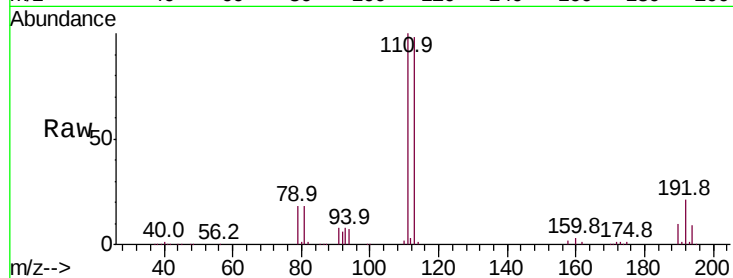
Tot Ion:113 Resp: 115469

Ion Ratio Lower Upper

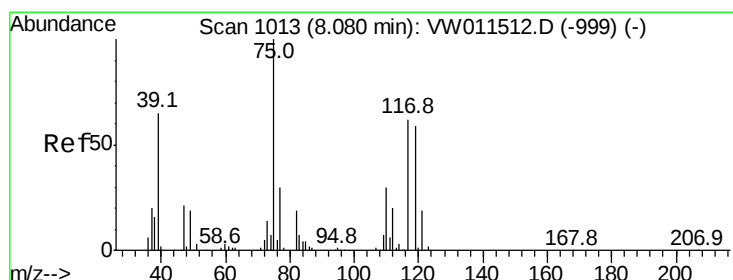
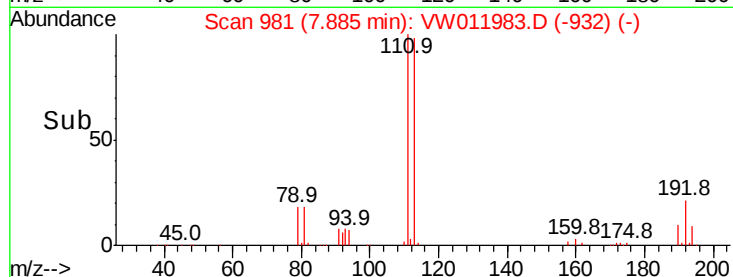
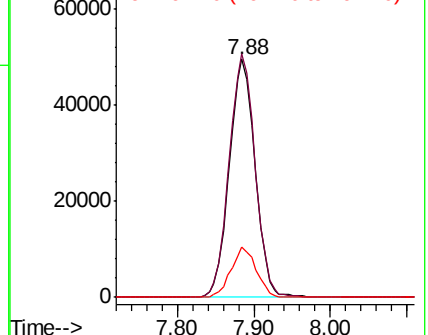
113 100

111 102.8 82.7 124.1

192 20.5 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: 4.936 ug/l

RT: 7.95 min Scan# 991

Delta R.T. -0.13 min

Lab File: VW011983.D

Acq: 19 Aug 2019 11:40

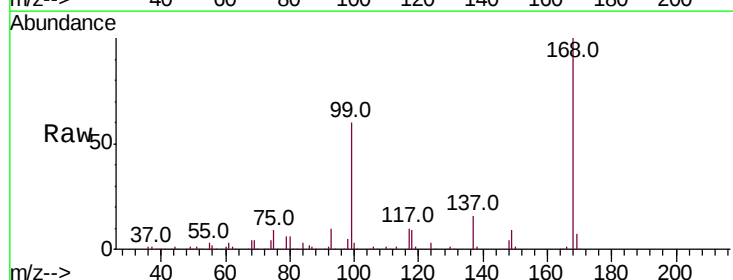
Tgt Ion: 75 Resp: 19151

Ion Ratio Lower Upper

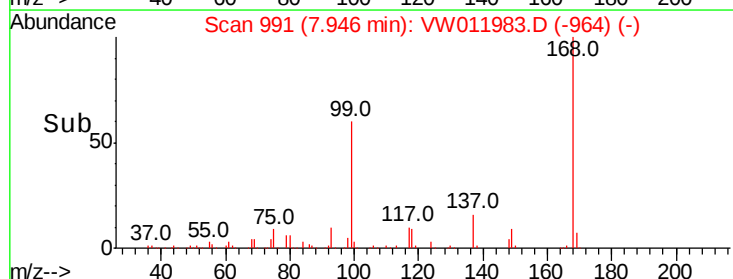
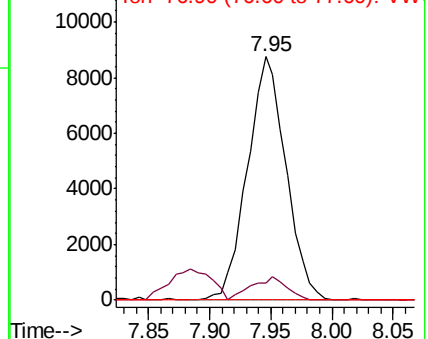
75 100

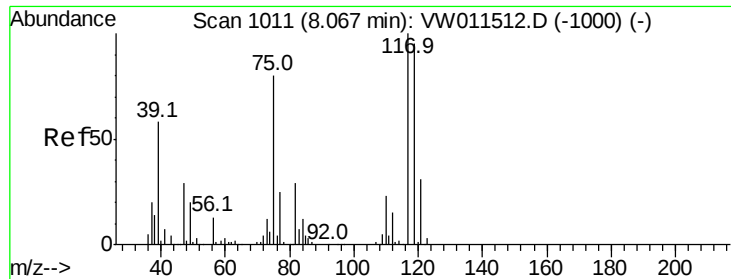
110 8.9 15.6 46.8#

77 0.0 24.3 36.5#



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: 6.730 ug/l

RT: 7.95 min Scan# 992

Delta R.T. -0.12 min

Lab File: VW011983.D

Acq: 19 Aug 2019 11:40

Instrument :

MSVOA\_W

ClientSampled :

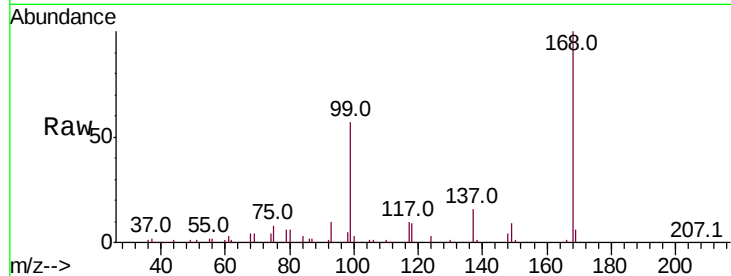
Tot Ion:117 Resp: 22353

Ion Ratio Lower Upper

117 100

119 4.4 75.8 113.6#

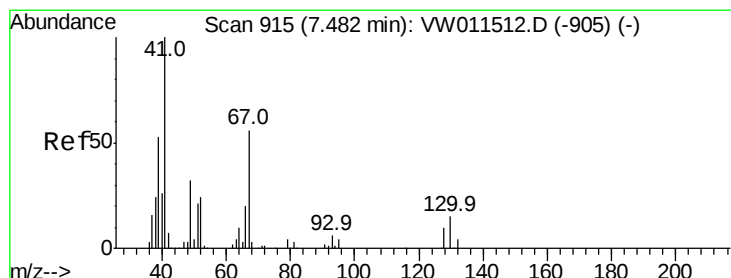
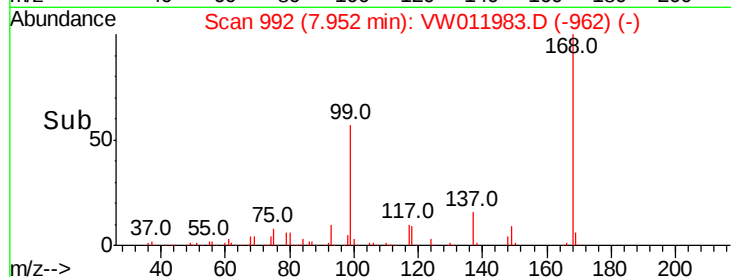
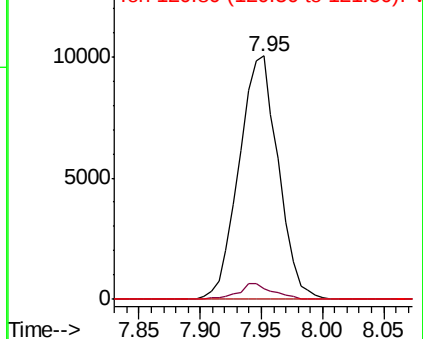
121 0.0 24.7 37.1#



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: 2.050 ug/l

RT: 7.54 min Scan# 924

Delta R.T. 0.05 min

Lab File: VW011983.D

Acq: 19 Aug 2019 11:40

Tgt Ion: 41 Resp: 2736

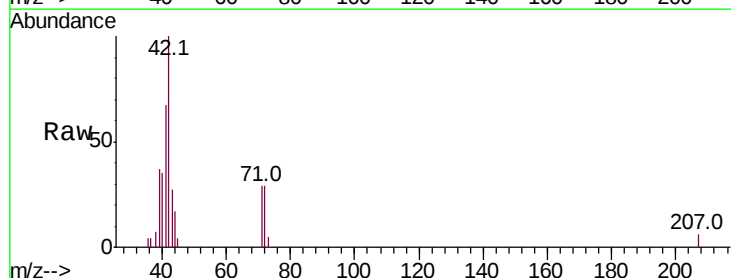
Ion Ratio Lower Upper

41 100

39 56.4 43.0 64.4

67 0.0 47.5 71.3#

52 0.0 21.0 31.6#

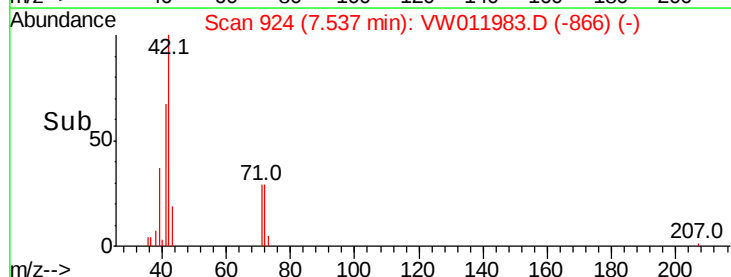
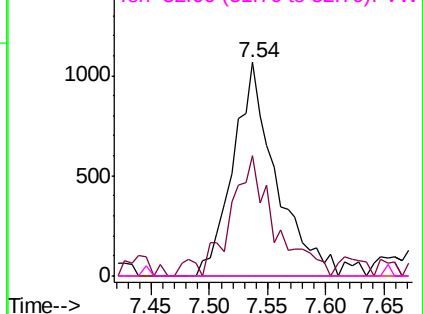


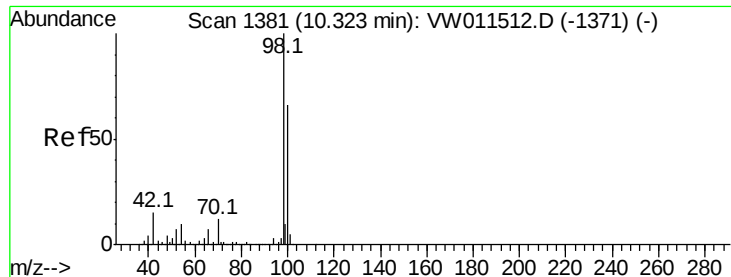
Abundance Ion 41.00 (40.70 to 41.70): VW

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: 50.840 ug/l

RT: 10.32 min Scan# 1381

Delta R.T. 0.00 min

Lab File: VW011983.D

Acq: 19 Aug 2019 11:40

Instrument :

MSVOA\_W

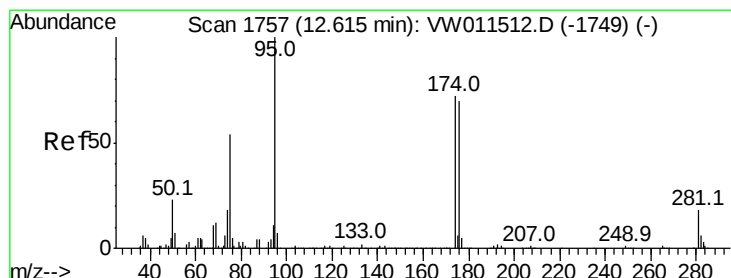
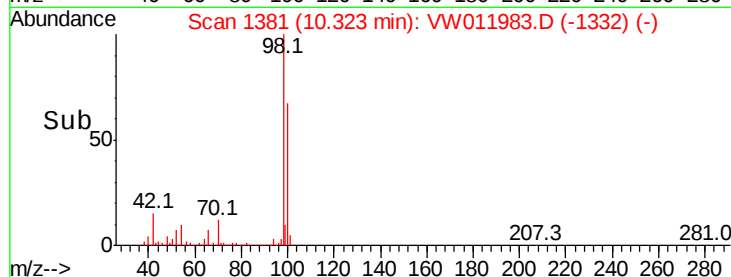
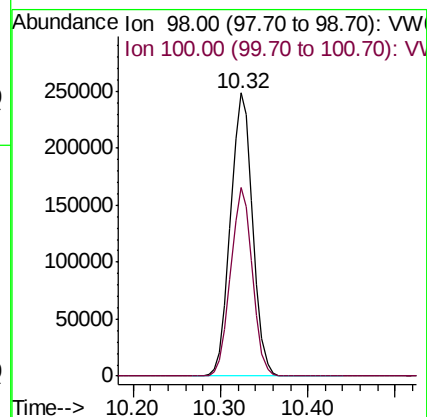
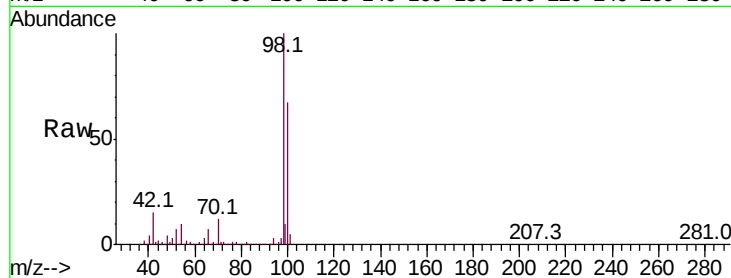
ClientSampled :

Tot Ion: 98 Resp: 435741

Ion Ratio Lower Upper

98 100

100 65.5 52.7 79.1



#62

4-Bromofluorobenzene

Concen: 37.463 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. 0.01 min

Lab File: VW011983.D

Acq: 19 Aug 2019 11:40

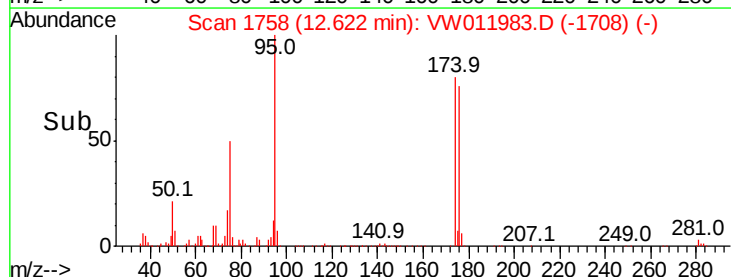
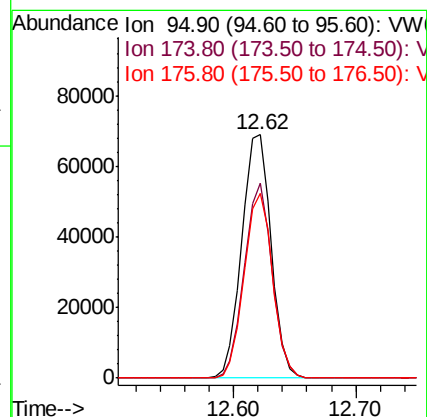
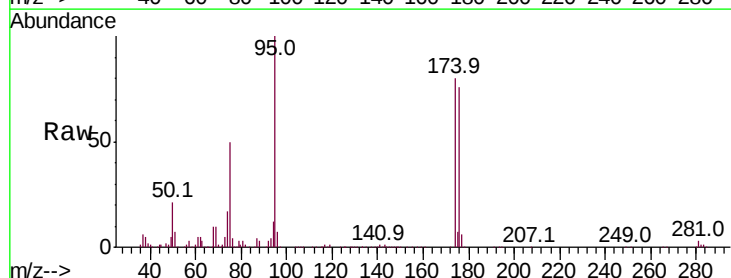
Tgt Ion: 95 Resp: 114475

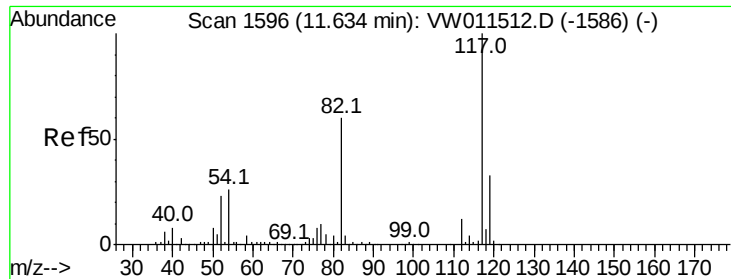
Ion Ratio Lower Upper

95 100

174 76.2 0.0 150.2

176 74.1 0.0 144.4

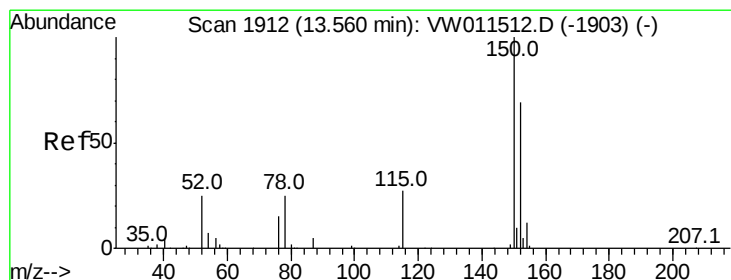
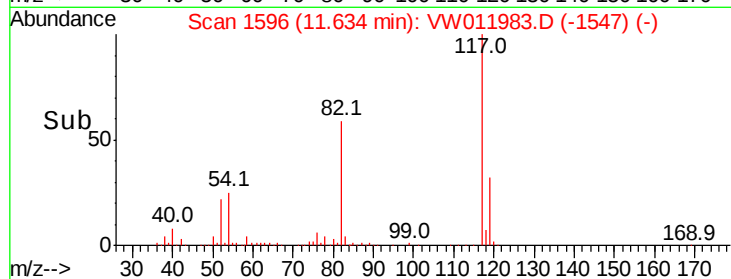
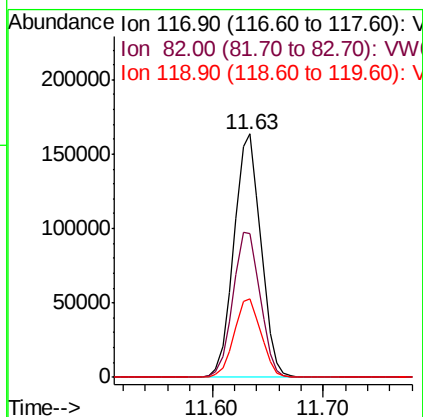
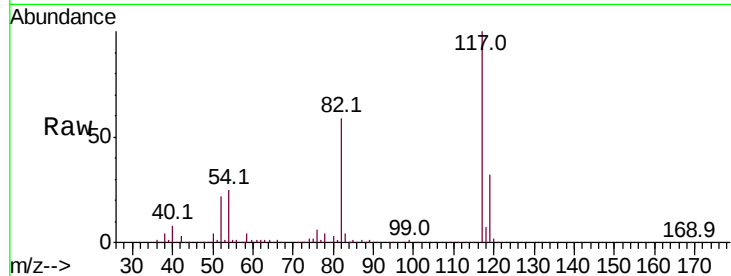




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.63 min Scan# 1596  
Delta R.T. 0.00 min  
Lab File: VW011983.D  
Acq: 19 Aug 2019 11:40

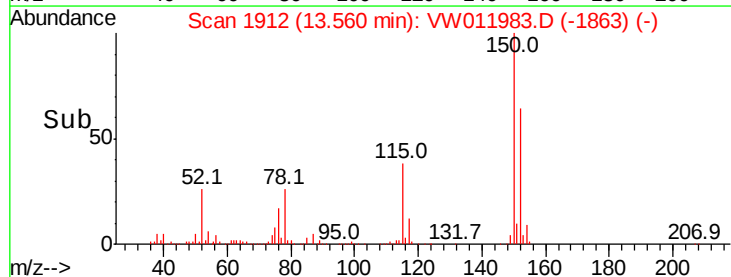
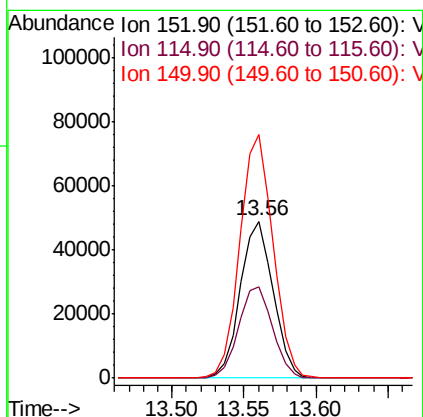
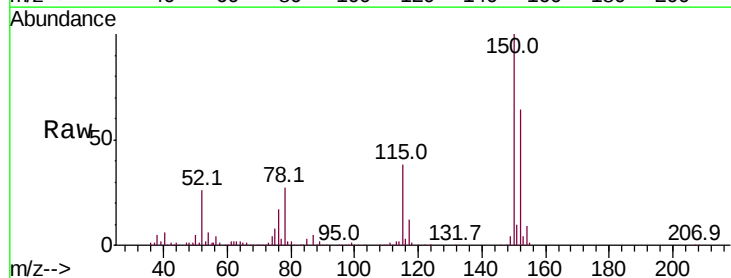
Instrument :  
MSVOA\_W  
ClientSampleId :

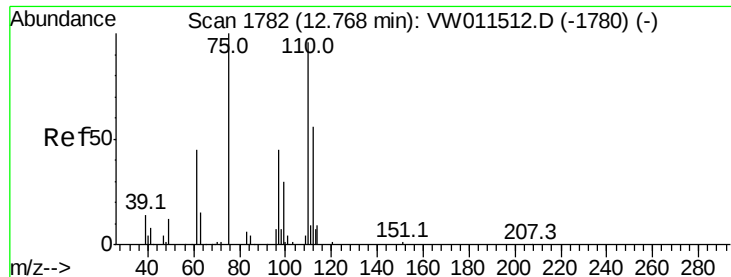
Tot Ion:117 Resp: 273821  
Ion Ratio Lower Upper  
117 100  
82 59.1 47.9 71.9  
119 32.4 26.2 39.2



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.56 min Scan# 1912  
Delta R.T. 0.00 min  
Lab File: VW011983.D  
Acq: 19 Aug 2019 11:40

Tgt Ion:152 Resp: 77382  
Ion Ratio Lower Upper  
152 100  
115 60.2 30.5 91.5  
150 156.4 0.0 352.6





#76

1,2,3-Trichloropropane

Concen: 71.962 ug/l

RT: 12.62 min Scan# 1757

Delta R.T. -0.15 min

Lab File: VW011983.D

Acq: 19 Aug 2019 11:40

Instrument :

MSVOA\_W

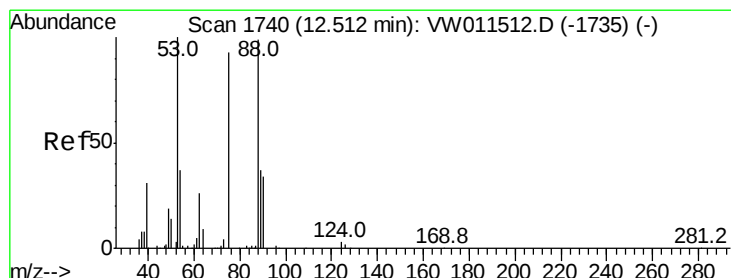
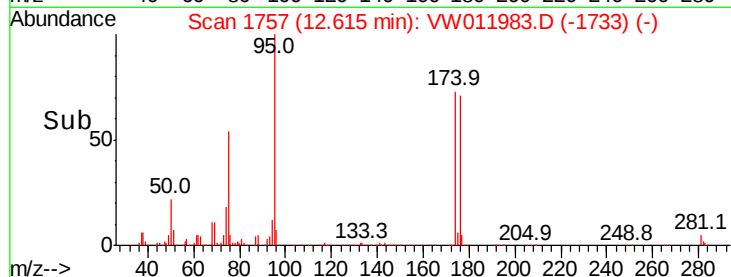
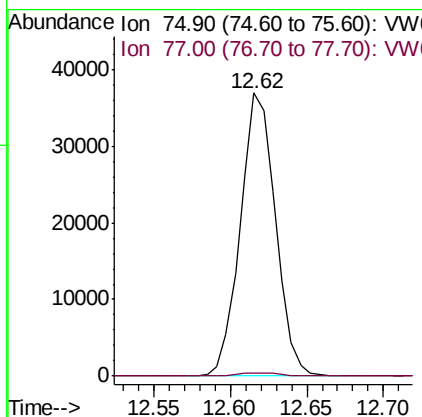
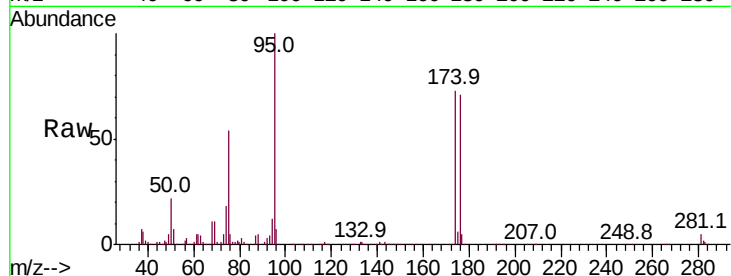
ClientSampleId :

Tot Ion: 75 Resp: 58922

Ion Ratio Lower Upper

75 100

77 1.3 0.0 0.0#



#81

trans-1,4-Dichloro-2-butene

Concen: 165.848 ug/l

RT: 12.62 min Scan# 1757

Delta R.T. 0.10 min

Lab File: VW011983.D

Acq: 19 Aug 2019 11:40

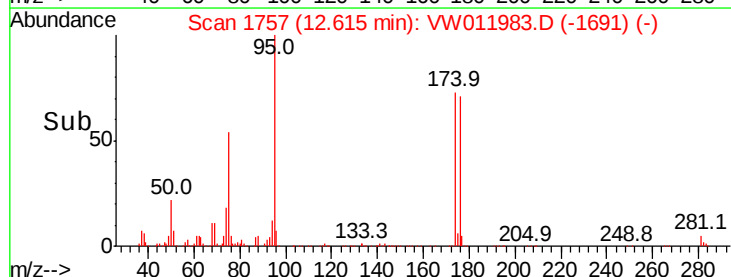
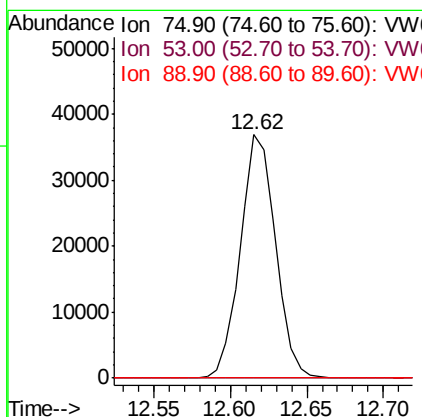
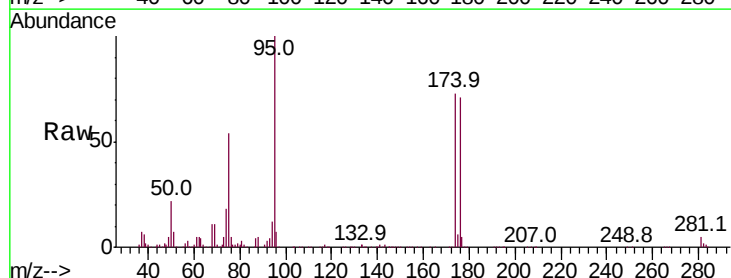
Tgt Ion: 75 Resp: 58922

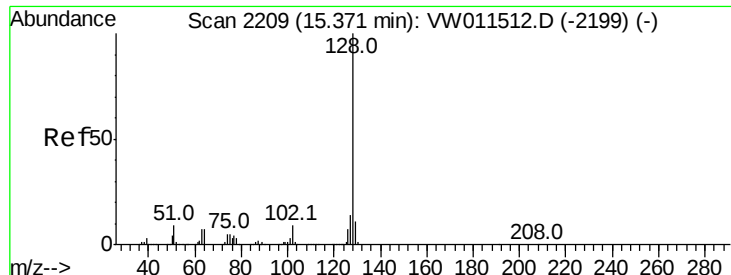
Ion Ratio Lower Upper

75 100

53 0.0 88.0 132.0#

89 0.0 35.3 52.9#





#95  
Naphthalene  
Concen: 2.177 ug/l  
RT: 15.37 min Scan# 2209  
Delta R.T. 0.00 min  
Lab File: VW011983.D  
Acq: 19 Aug 2019 11:40

Instrument :  
MSVOA\_W  
ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 128     | 100   |       |       |
| 127     | 5.6   | 10.6  | 16.0# |
| 129     | 0.0   | 8.6   | 13.0# |

