

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_W\DATA\VW081619\  
 Data File : VW011934.D  
 Acq On : 15 Aug 2019 17:53  
 Operator : SY/VA  
 Sample : K4377-01  
 Misc : 6.80G/5ML/MSVOA\_W/SOIL  
 ALS Vial : 9 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 RBR-50

Quant Time: Aug 16 04:35:11 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  | 152353   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.84  | 114  | 249216   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.63 | 117  | 213662   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.56 | 152  | 86449    | 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   | 109155   | 62.39  | ug/l    | 0.00     |
| Spiked Amount               |       |      |          | 50.000 |         |          |
|                             |       |      | Recovery | =      | 124.78% |          |
| 35) Dibromofluoromethane    | 7.88  | 113  | 79029    | 56.52  | ug/l    | 0.00     |
| Spiked Amount               |       |      |          | 50.000 |         |          |
|                             |       |      | Recovery | =      | 113.04% |          |
| 50) Toluene-d8              | 10.32 | 98   | 303874   | 53.08  | ug/l    | 0.00     |
| Spiked Amount               |       |      |          | 50.000 |         |          |
|                             |       |      | Recovery | =      | 106.16% |          |
| 62) 4-Bromofluorobenzene    | 12.62 | 95   | 99281    | 48.65  | ug/l    | 0.00     |
| Spiked Amount               |       |      |          | 50.000 |         |          |
|                             |       |      | Recovery | =      | 97.30%  |          |

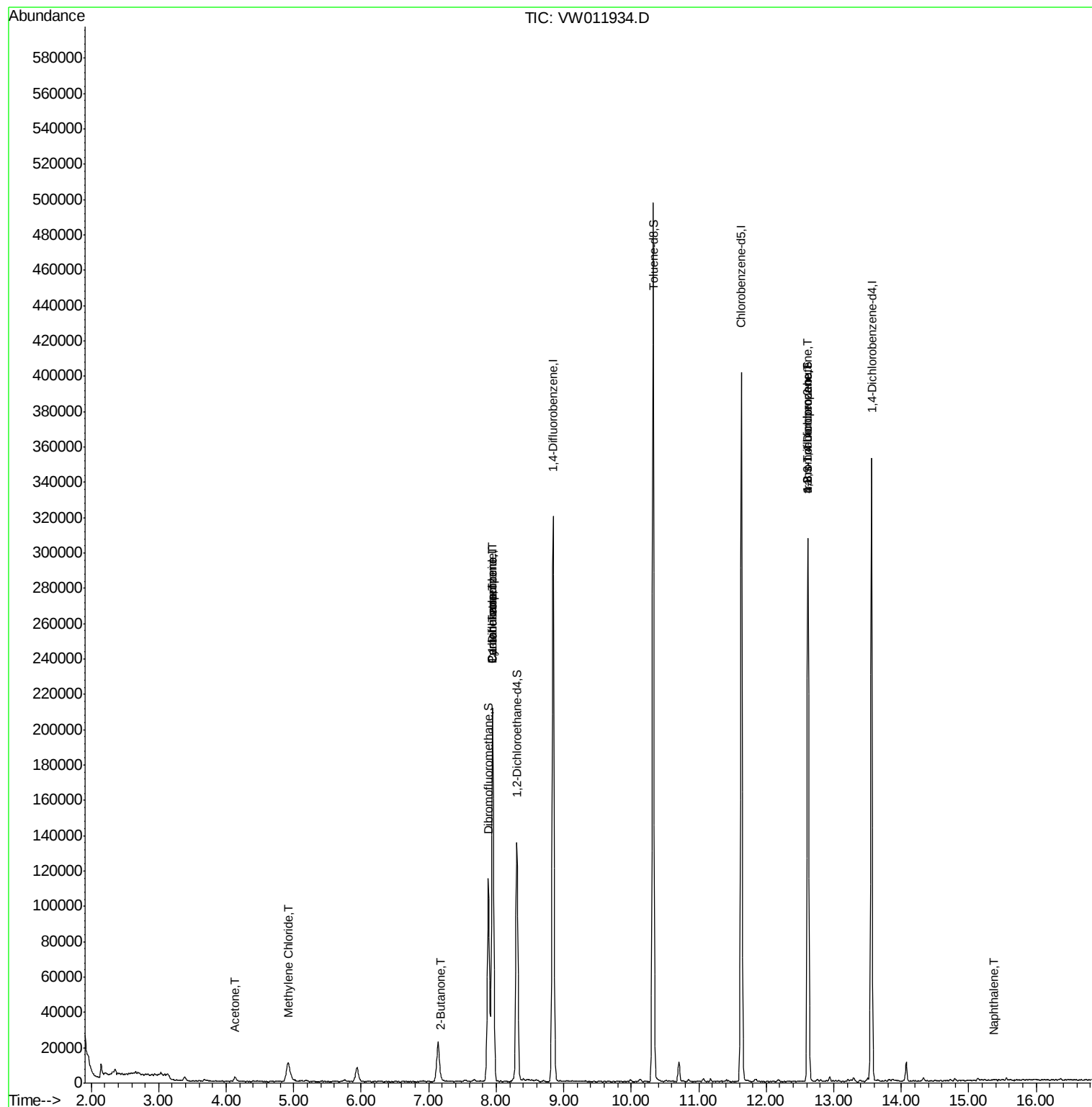
| Target Compounds               | R.T.  | QIon | Response | Conc      | Units  | Qvalue |
|--------------------------------|-------|------|----------|-----------|--------|--------|
| 11) Tert butyl alcohol         | 5.17  | 59   | 1194     | Below Cal | #      | 93     |
| 16) Acetone                    | 4.14  | 43   | 4864     | 8.740     | ug/l   | 90     |
| 20) Methylene Chloride         | 4.92  | 84   | 8115     | 4.228     | ug/l   | 94     |
| 25) 2-Butanone                 | 7.18  | 43   | 736      | 1.011     | ug/l # | 56     |
| 31) Cyclohexane                | 7.95  | 56   | 3851     | 1.177     | ug/l # | 1      |
| 36) 1,1-Dichloropropene        | 7.95  | 75   | 13586    | 5.243     | ug/l # | 51     |
| 38) Carbon Tetrachloride       | 7.95  | 117  | 15614    | 7.038     | ug/l # | 18     |
| 76) 1,2,3-Trichloropropane     | 12.62 | 75   | 53699    | 58.705    | ug/l # | 100    |
| 81) trans-1,4-Dichloro-2-buten | 12.62 | 75   | 53699    | 135.294   | ug/l # | 6      |
| 95) Naphthalene                | 15.37 | 128  | 668      | 2.254     | ug/l # | 85     |

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

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RBR-50

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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: VW011934.D

Acq: 15 Aug 2019 17:53

Instrument :

MSVOA\_W

ClientSampled :

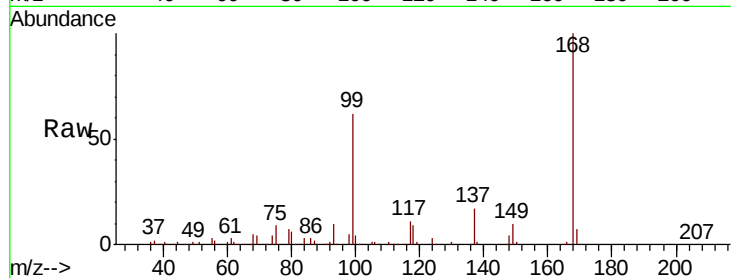
RBR-50

Tgt Ion:168 Resp: 152353

Ion Ratio Lower Upper

168 100

99 61.8 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

80000

60000

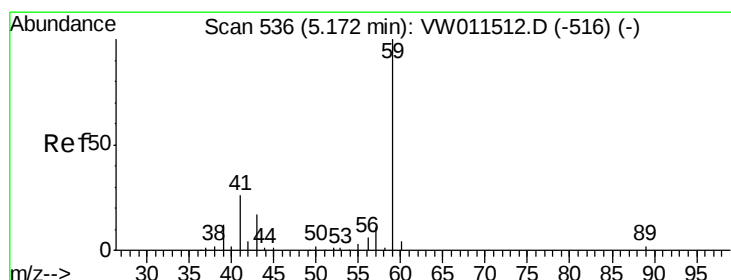
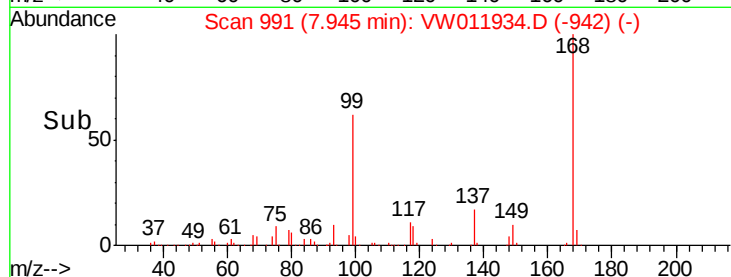
40000

20000

0

7.90 8.00 8.10

Time-->



#11

Tert butyl alcohol

Concen: Below Cal

RT: 5.17 min Scan# 536

Delta R.T. 0.00 min

Lab File: VW011934.D

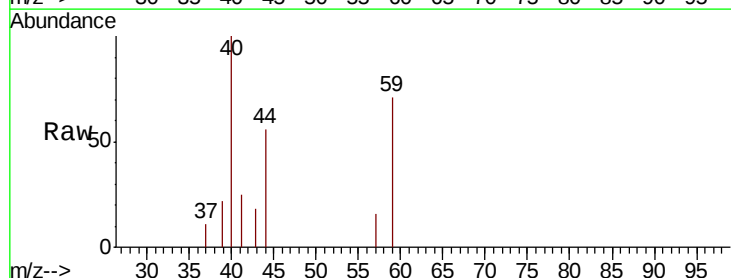
Acq: 15 Aug 2019 17:53

Tgt Ion: 59 Resp: 1194

Ion Ratio Lower Upper

59 100

57 8.0 8.5 12.7#



Abundance Ion 59.00 (58.70 to 59.70): VW

Ion 57.00 (56.70 to 57.70): VW

5.17

300

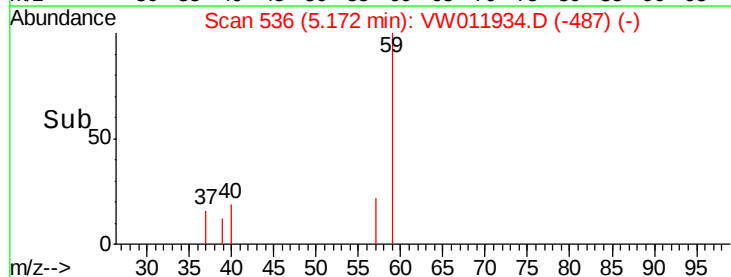
200

100

0

5.10 5.15 5.20 5.25

Time-->





#16

Acetone

Concen: 8.740 ug/l

RT: 4.14 min Scan# 366

Delta R.T. 0.02 min

Lab File: VW011934.D

Acq: 15 Aug 2019 17:53

Instrument :

MSVOA\_W

ClientSampleId :

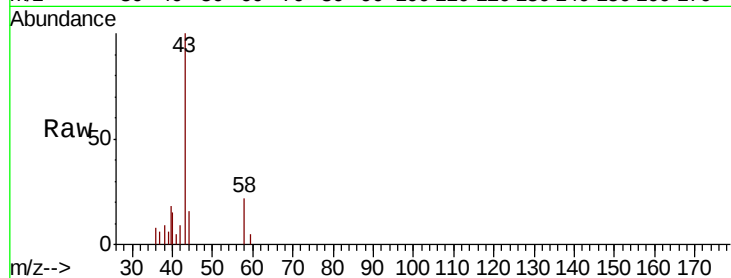
RBR-50

Tgt Ion: 43 Resp: 4864

Ion Ratio Lower Upper

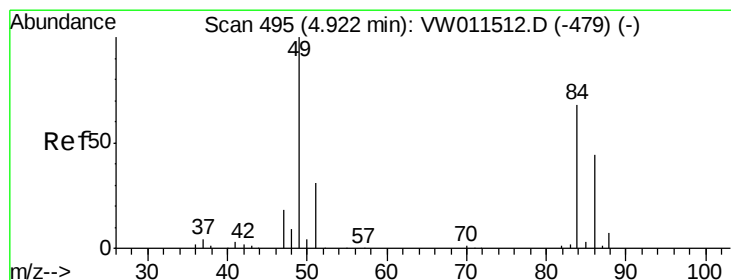
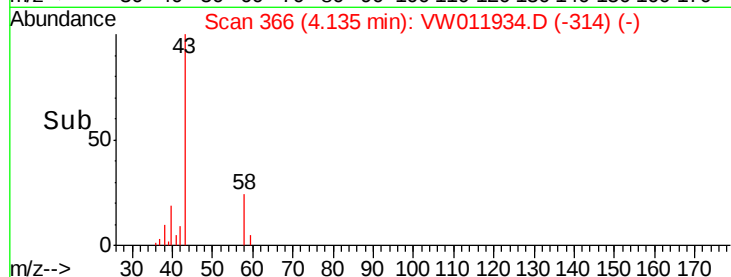
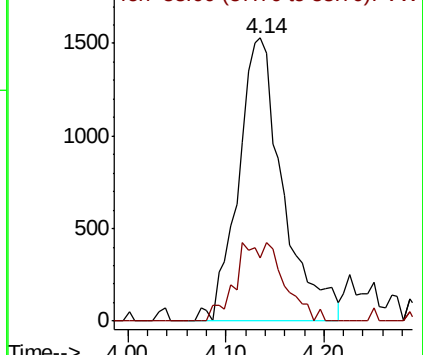
43 100

58 22.4 22.3 33.5



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW



#20

Methylene Chloride

Concen: 4.228 ug/l

RT: 4.92 min Scan# 495

Delta R.T. -0.00 min

Lab File: VW011934.D

Acq: 15 Aug 2019 17:53

Tgt Ion: 84 Resp: 8115

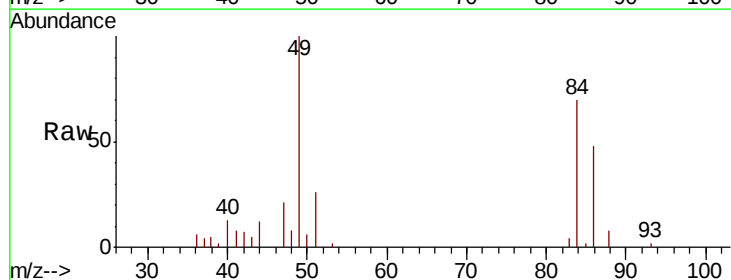
Ion Ratio Lower Upper

84 100

49 141.8 117.8 176.6

51 37.0 37.0 55.4

86 68.4 51.8 77.8

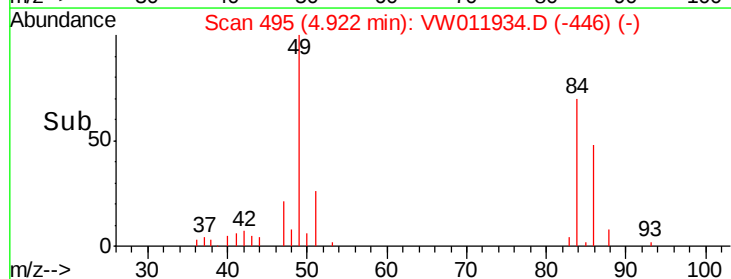
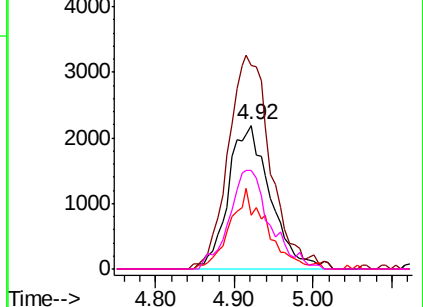


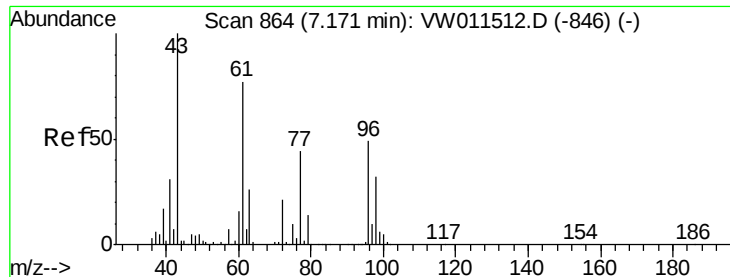
Abundance Ion 83.90 (83.60 to 84.60): VW

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





#25

2-Butanone

Concen: 1.011 ug/l

RT: 7.18 min Scan# 866

Delta R.T. 0.01 min

Lab File: VW011934.D

Acq: 15 Aug 2019 17:53

Instrument :

MSVOA\_W

ClientSampled :

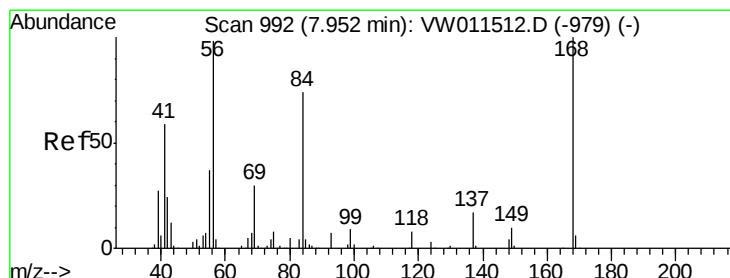
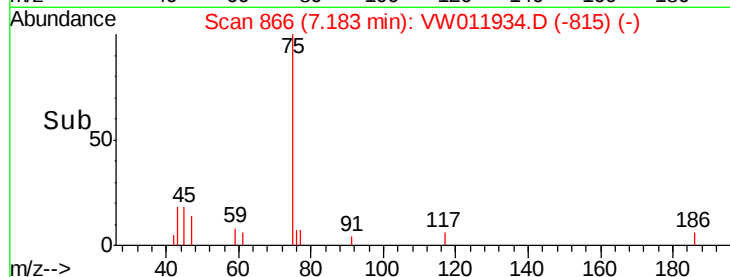
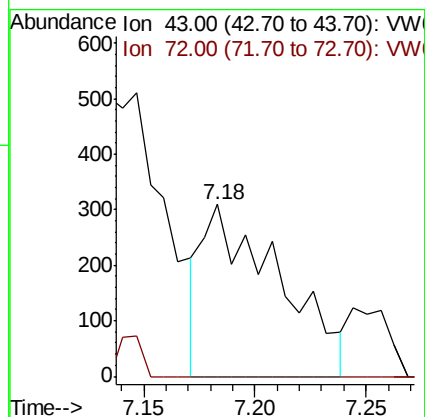
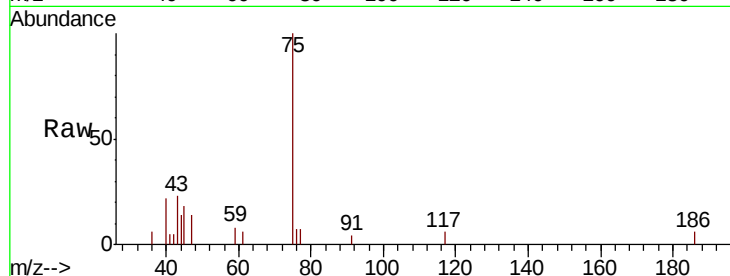
RBR-50

Tgt Ion: 43 Resp: 736

Ion Ratio Lower Upper

43 100

72 0.0 16.6 24.8#



#31

Cyclohexane

Concen: 1.177 ug/l

RT: 7.95 min Scan# 991

Delta R.T. -0.01 min

Lab File: VW011934.D

Acq: 15 Aug 2019 17:53

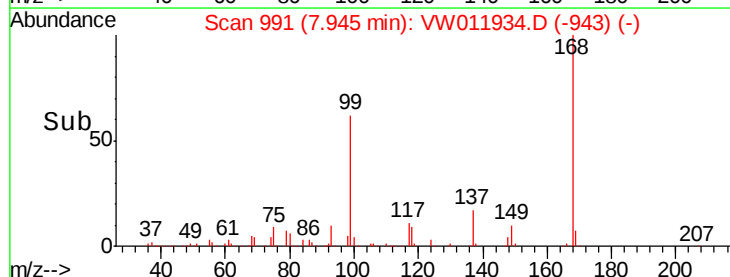
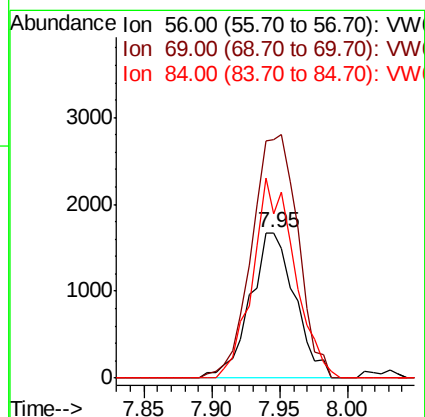
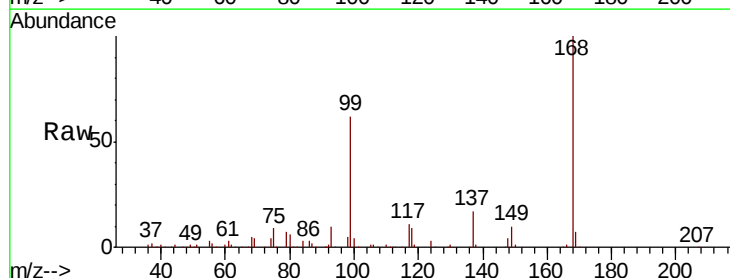
Tgt Ion: 56 Resp: 3851

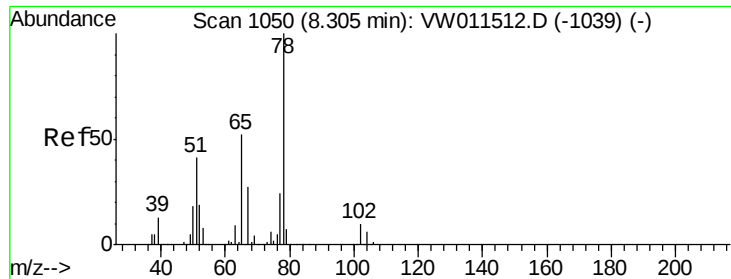
Ion Ratio Lower Upper

56 100

69 164.4 24.3 36.5#

84 112.8 60.4 90.6#

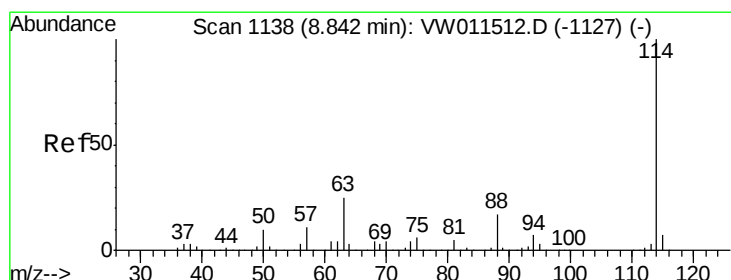
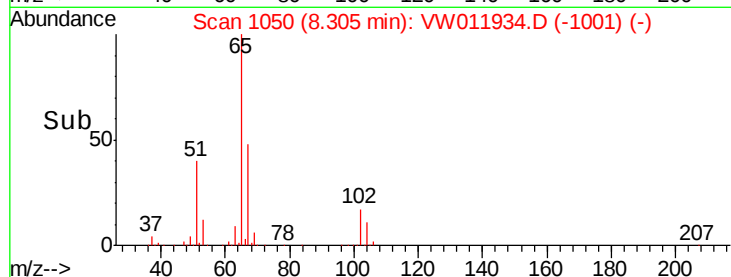
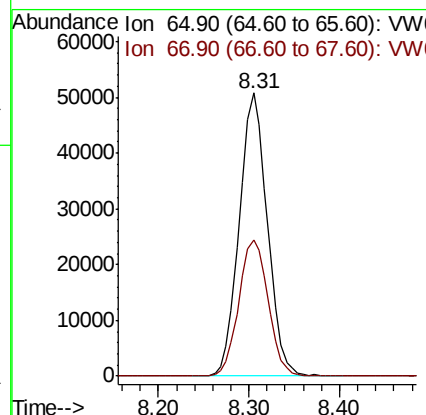
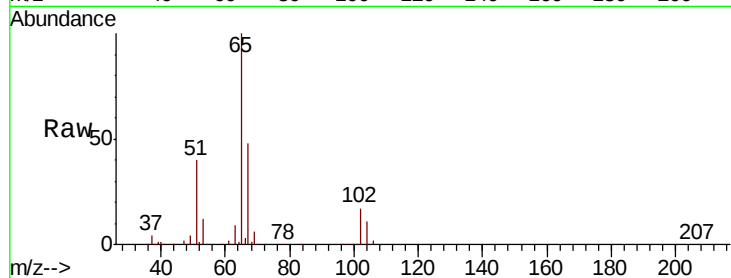




#33  
 1,2-Dichloroethane-d4  
 Concen: 62.394 ug/l  
 RT: 8.31 min Scan# 1050  
 Delta R.T. -0.00 min  
 Lab File: VW011934.D  
 Acq: 15 Aug 2019 17:53

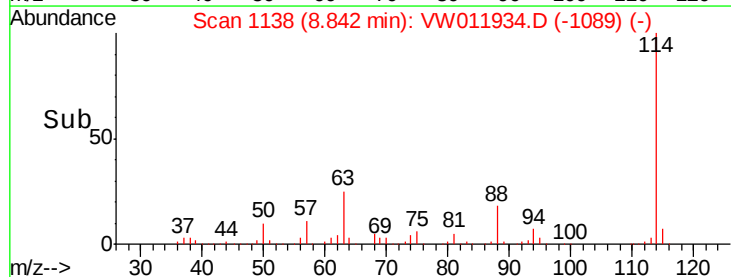
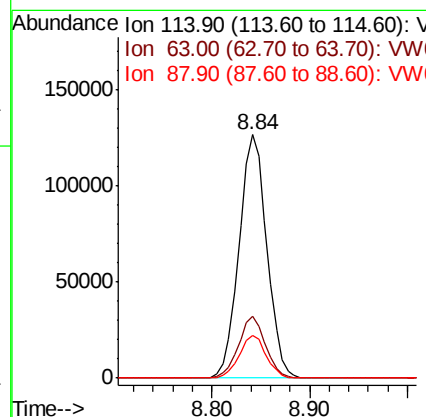
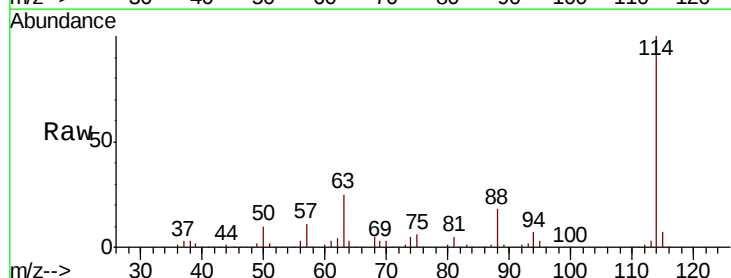
Instrument :  
 MSVOA\_W  
 ClientSampled :  
 RBR-50

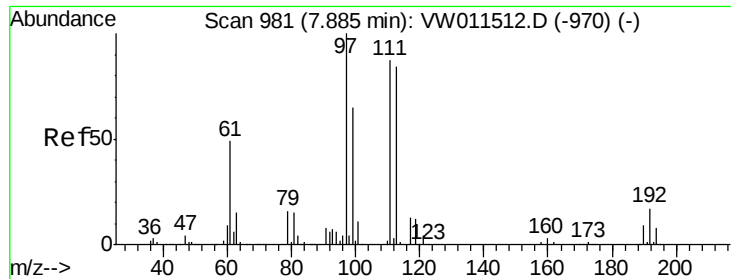
Tgt Ion: 65 Resp: 109155  
 Ion Ratio Lower Upper  
 65 100  
 67 50.3 0.0 105.2



#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.84 min Scan# 1138  
 Delta R.T. -0.00 min  
 Lab File: VW011934.D  
 Acq: 15 Aug 2019 17:53

Tgt Ion: 114 Resp: 249216  
 Ion Ratio Lower Upper  
 114 100  
 63 25.4 0.0 49.2  
 88 17.5 0.0 33.8

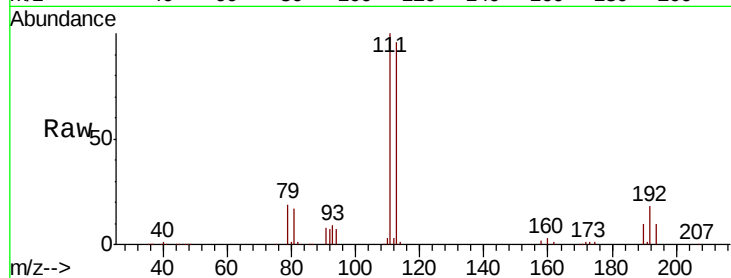




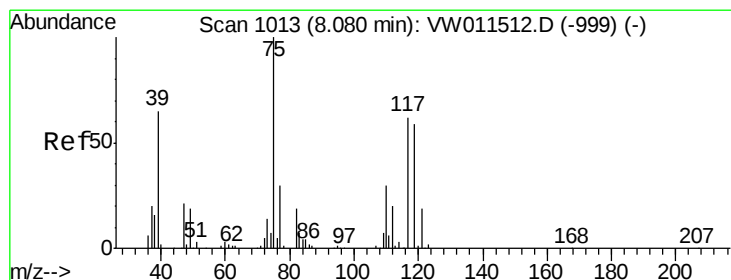
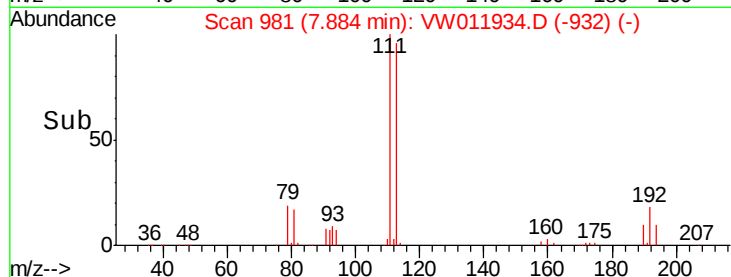
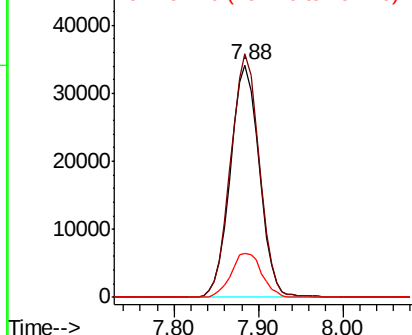
#35  
 Dibromofluoromethane  
 Concen: 56.524 ug/l  
 RT: 7.88 min Scan# 981  
 Delta R.T. -0.00 min  
 Lab File: VW011934.D  
 Acq: 15 Aug 2019 17:53

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 RBR-50

Tgt Ion:113 Resp: 79029  
 Ion Ratio Lower Upper  
 113 100  
 111 104.3 82.7 124.1  
 192 20.1 16.1 24.1

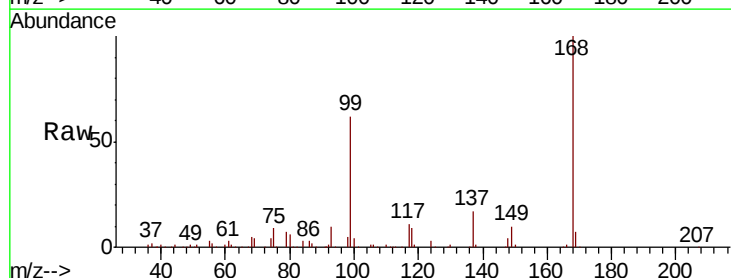


Abundance Ion 112.80 (112.50 to 113.50): V  
 Ion 110.80 (110.50 to 111.50): V  
 Ion 191.70 (191.40 to 192.40): V

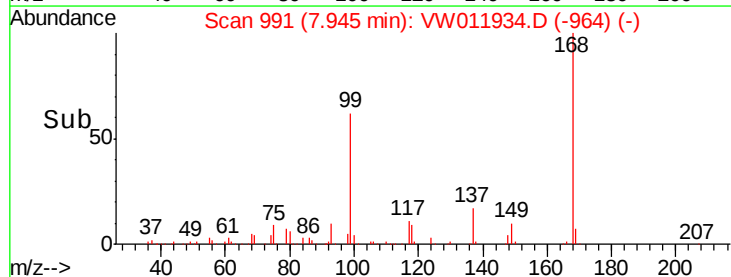
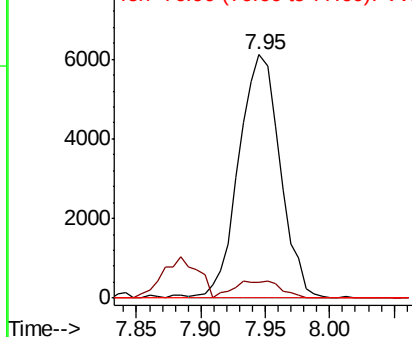


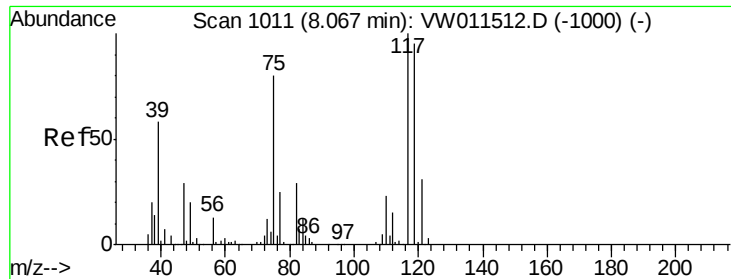
#36  
 1,1-Dichloropropene  
 Concen: 5.243 ug/l  
 RT: 7.95 min Scan# 991  
 Delta R.T. -0.13 min  
 Lab File: VW011934.D  
 Acq: 15 Aug 2019 17:53

Tgt Ion: 75 Resp: 13586  
 Ion Ratio Lower Upper  
 75 100  
 110 7.5 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

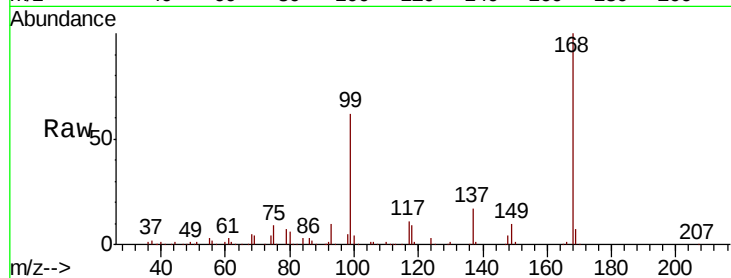




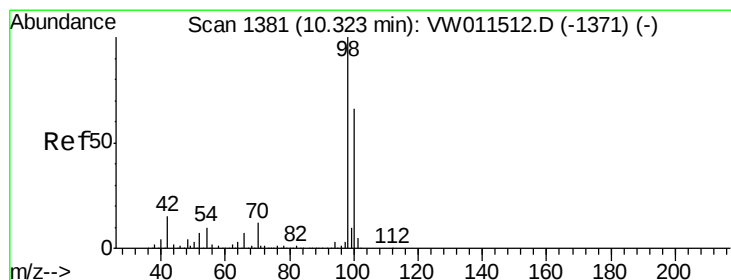
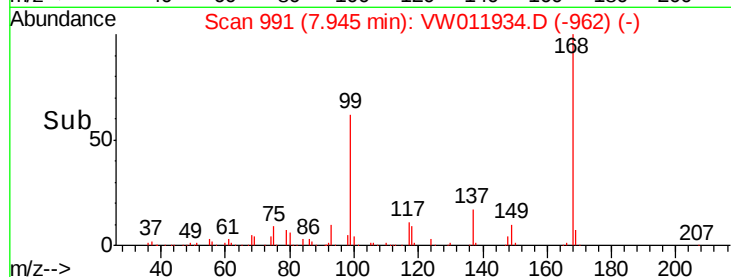
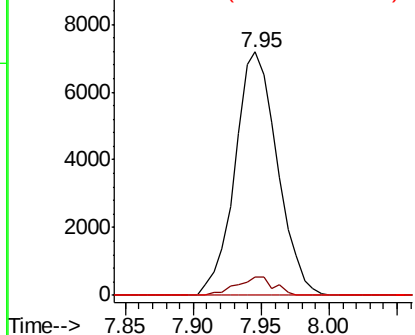
#38  
Carbon Tetrachloride  
Concen: 7.038 ug/l  
RT: 7.95 min Scan# 991  
Delta R.T. -0.12 min  
Lab File: VW011934.D  
Acq: 15 Aug 2019 17:53

Instrument :  
MSVOA\_W  
ClientSampled :  
RBR-50

Tgt Ion:117 Resp: 15614  
Ion Ratio Lower Upper  
117 100  
119 7.5 75.8 113.6#  
121 0.0 24.7 37.1#

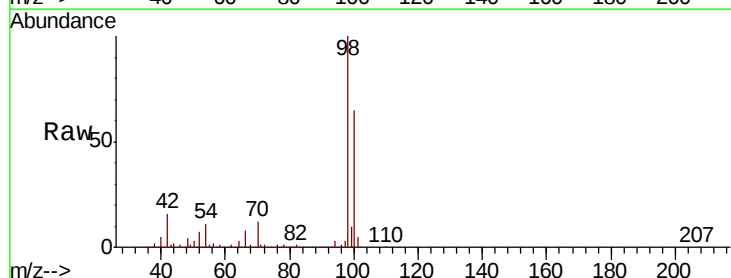


Abundance Ion 116.80 (116.50 to 117.50): V  
Ion 118.80 (118.50 to 119.50): V  
Ion 120.80 (120.50 to 121.50): V

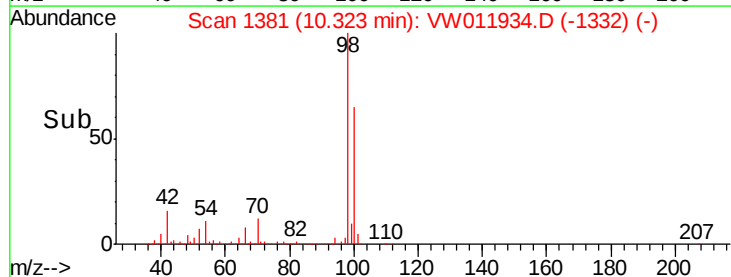
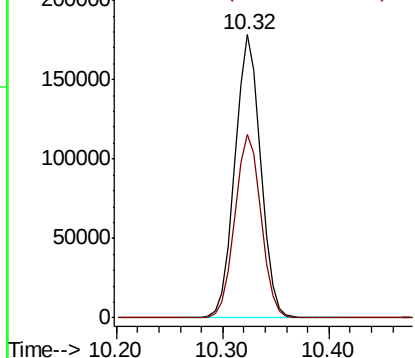


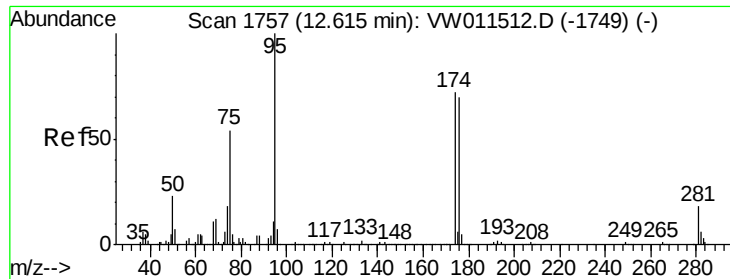
#50  
Toluene-d8  
Concen: 53.084 ug/l  
RT: 10.32 min Scan# 1381  
Delta R.T. -0.00 min  
Lab File: VW011934.D  
Acq: 15 Aug 2019 17:53

Tgt Ion: 98 Resp: 303874  
Ion Ratio Lower Upper  
98 100  
100 65.8 52.7 79.1



Abundance Ion 98.00 (97.70 to 98.70): VW  
Ion 100.00 (99.70 to 100.70): VW

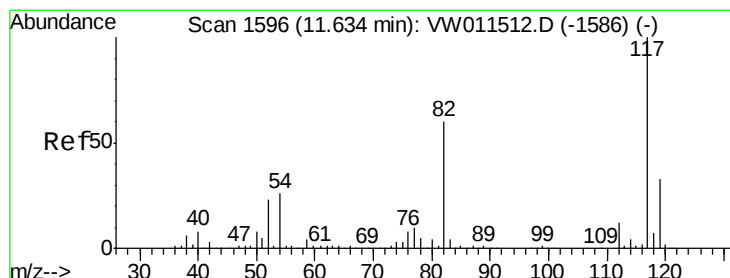
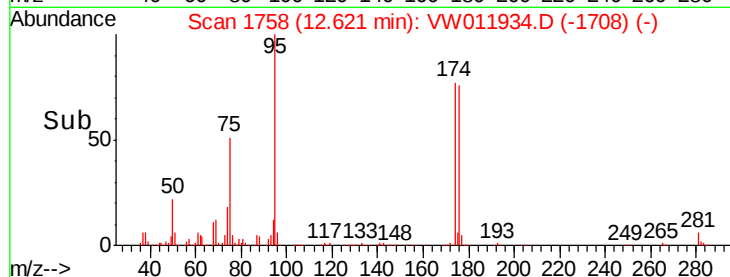
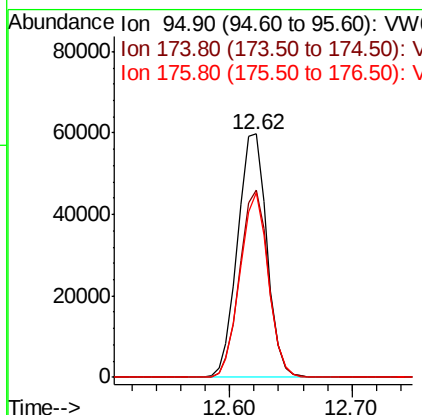
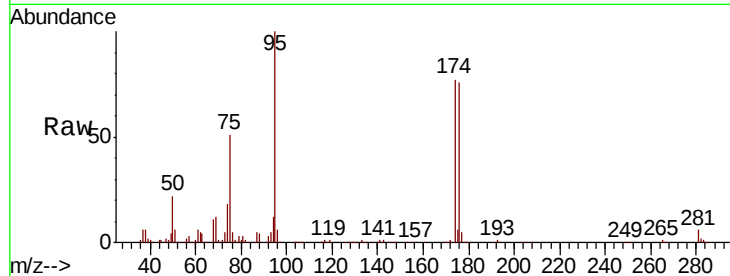




#62  
4-Bromofluorobenzene  
Concen: 48.646 ug/l  
RT: 12.62 min Scan# 1758  
Delta R.T. 0.01 min  
Lab File: VW011934.D  
Acq: 15 Aug 2019 17:53

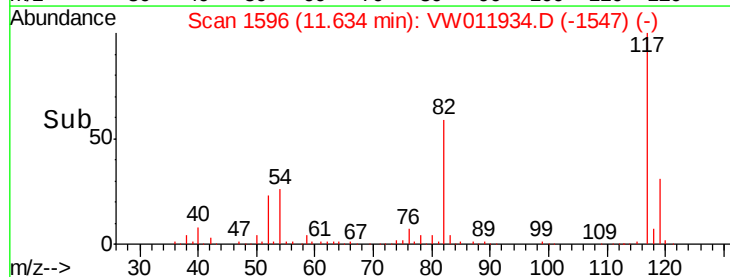
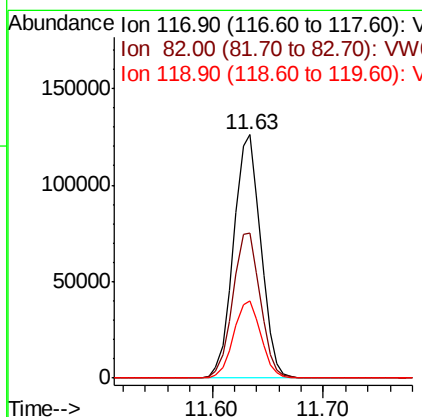
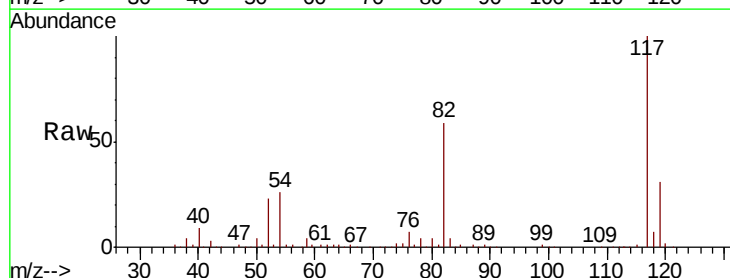
Instrument :  
MSVOA\_W  
ClientSampleId :  
RBR-50

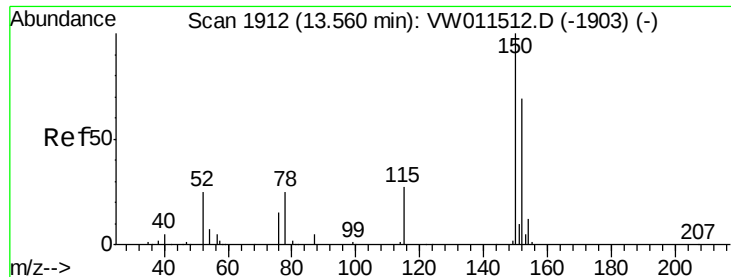
Tgt Ion: 95 Resp: 99281  
Ion Ratio Lower Upper  
95 100  
174 75.5 0.0 150.2  
176 73.4 0.0 144.4



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.63 min Scan# 1596  
Delta R.T. -0.00 min  
Lab File: VW011934.D  
Acq: 15 Aug 2019 17:53

Tgt Ion: 117 Resp: 213662  
Ion Ratio Lower Upper  
117 100  
82 59.5 47.9 71.9  
119 31.5 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: VW011934.D

Acq: 15 Aug 2019 17:53

Instrument :

MSVOA\_W

ClientSampled :

RBR-50

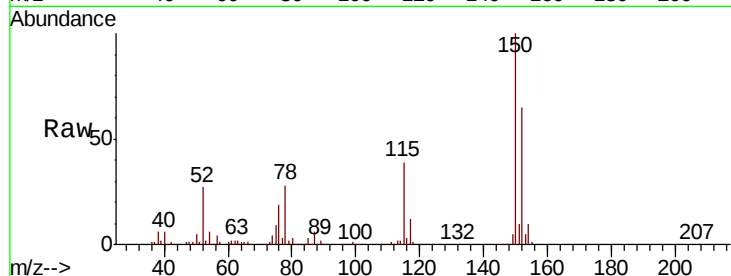
Tgt Ion:152 Resp: 86449

Ion Ratio Lower Upper

152 100

115 60.5 30.5 91.5

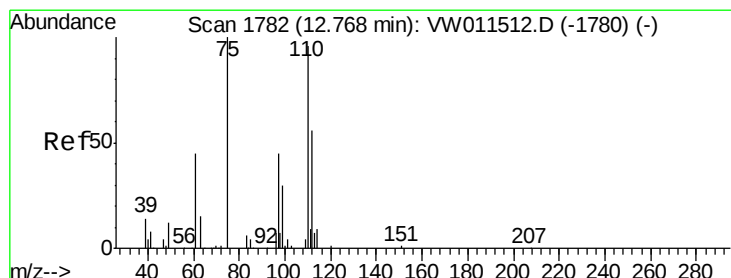
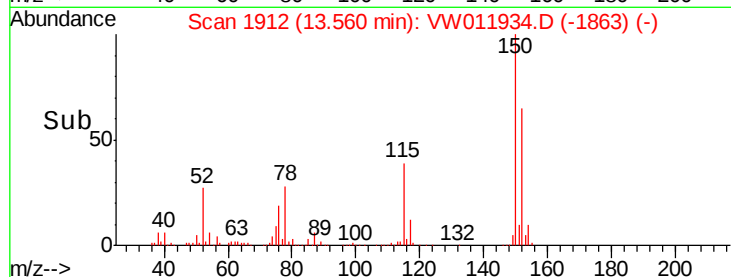
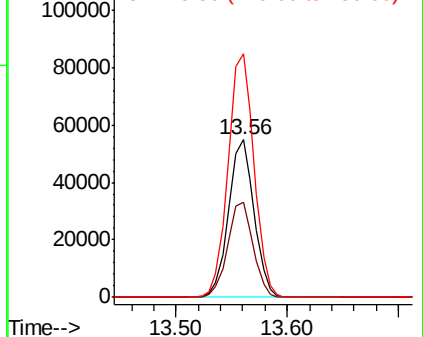
150 157.7 0.0 352.6



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: 58.705 ug/l

RT: 12.62 min Scan# 1757

Delta R.T. -0.15 min

Lab File: VW011934.D

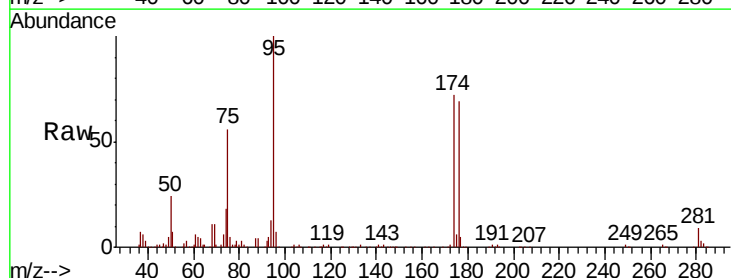
Acq: 15 Aug 2019 17:53

Tgt Ion: 75 Resp: 53699

Ion Ratio Lower Upper

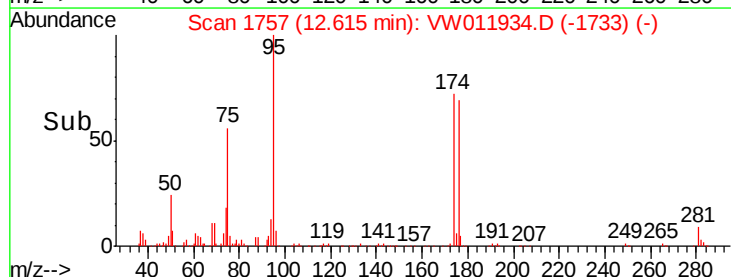
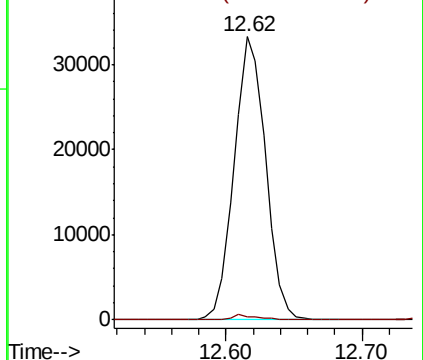
75 100

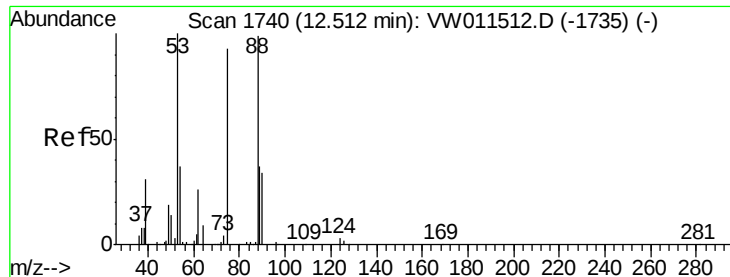
77 1.5 0.0 0.0#



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: 135.294 ug/l

RT: 12.62 min Scan# 1757

Delta R.T. 0.10 min

Lab File: VW011934.D

Acq: 15 Aug 2019 17:53

Instrument :

MSVOA\_W

ClientSampleId :

RBR-50

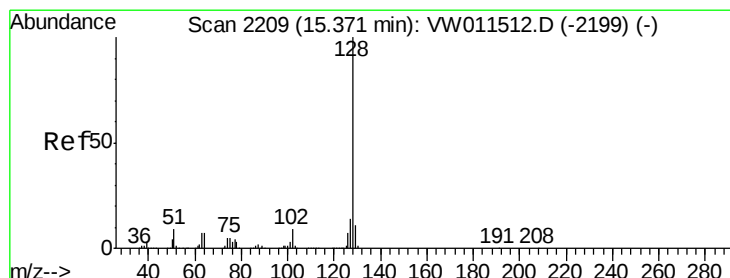
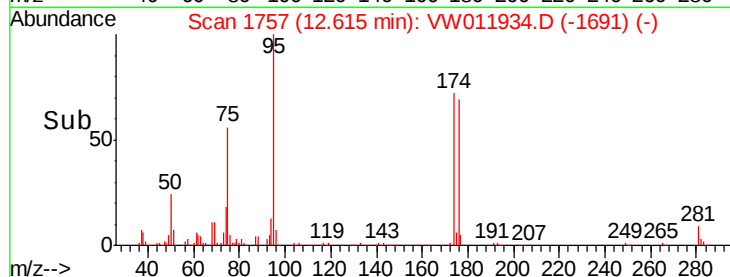
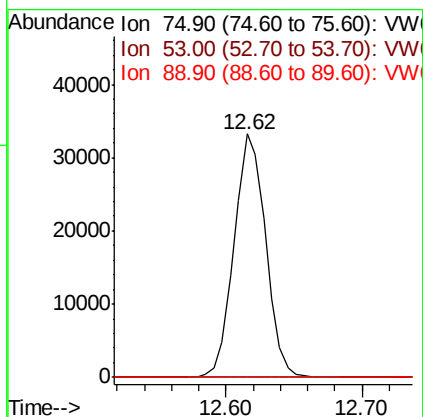
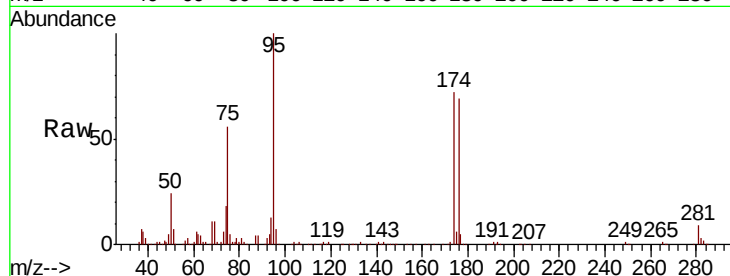
Tgt Ion: 75 Resp: 53699

Ion Ratio Lower Upper

75 100

53 0.1 88.0 132.0#

89 0.1 35.3 52.9#



#95

Naphthalene

Concen: 2.254 ug/l

RT: 15.37 min Scan# 2209

Delta R.T. 0.00 min

Lab File: VW011934.D

Acq: 15 Aug 2019 17:53

Tgt Ion: 128 Resp: 668

Ion Ratio Lower Upper

128 100

127 11.8 10.6 16.0

129 0.0 8.6 13.0#

