

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_W\DATA\VW081619\  
 Data File : VW011942.D  
 Acq On : 15 Aug 2019 21:18  
 Operator : SY/VA  
 Sample : K4354-03  
 Misc : 4.99G/5ML/MSVOA\_W/SOIL  
 ALS Vial : 17 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 PX-03-081319

Quant Time: Aug 16 04:36:30 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  | 206537   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.84  | 114  | 342377   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.63 | 117  | 287116   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.56 | 152  | 114480   | 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   | 136591   | 57.59 | ug/l    | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =     | 115.18% |          |
| 35) Dibromofluoromethane    | 7.88  | 113  | 106728   | 55.56 | ug/l    | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =     | 111.12% |          |
| 50) Toluene-d8              | 10.32 | 98   | 419952   | 53.40 | ug/l    | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =     | 106.80% |          |
| 62) 4-Bromofluorobenzene    | 12.62 | 95   | 135329   | 48.27 | ug/l    | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =     | 96.54%  |          |

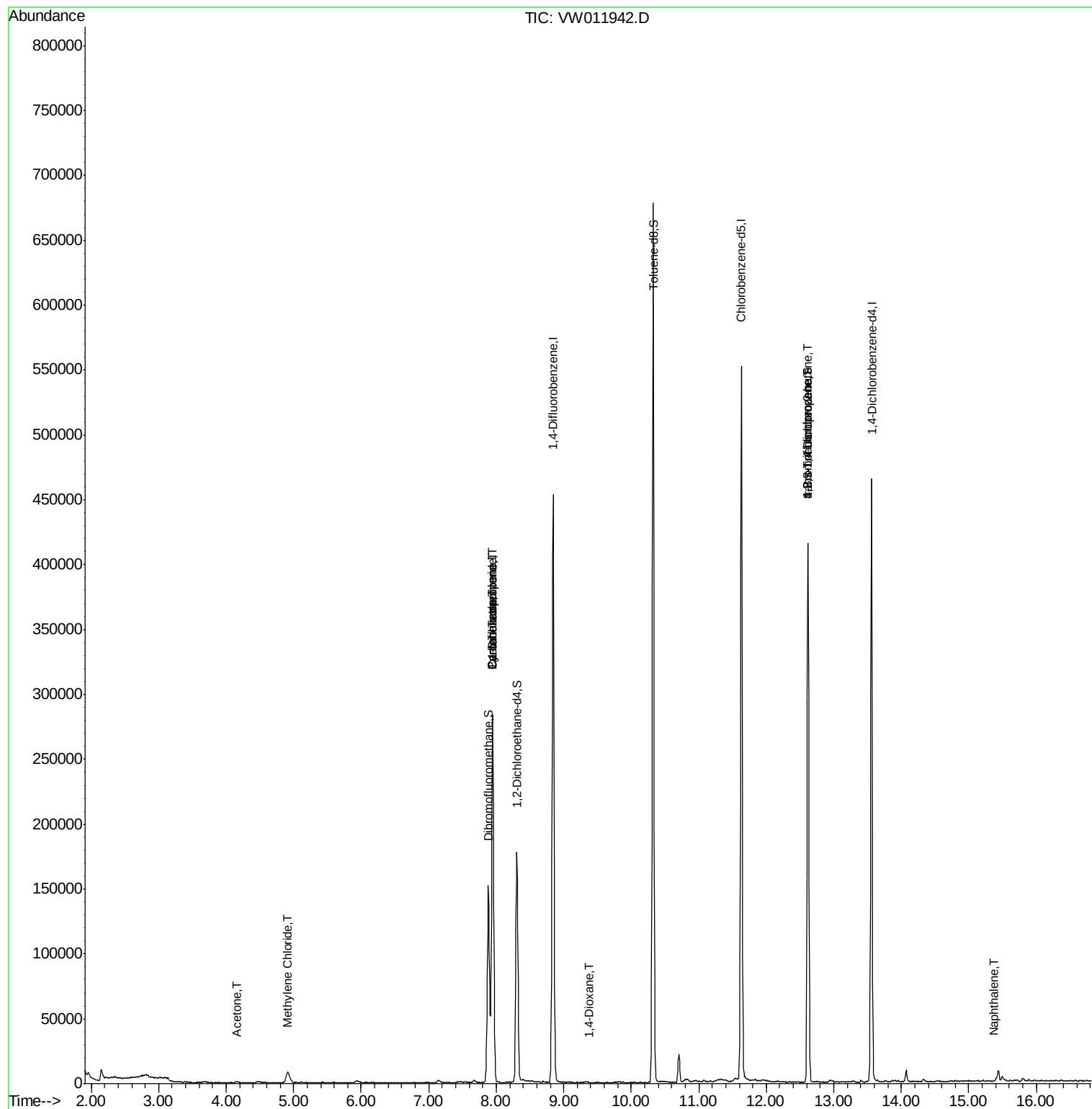
| Target Compounds               | R.T.  | QIon | Response | Conc      | Units  | Qvalue |
|--------------------------------|-------|------|----------|-----------|--------|--------|
| 11) Tert butyl alcohol         | 5.17  | 59   | 19       | Below Cal | #      | 72     |
| 16) Acetone                    | 4.15  | 43   | 1505     | 1.995     | ug/l # | 83     |
| 20) Methylene Chloride         | 4.91  | 84   | 6281     | 2.414     | ug/l   | 97     |
| 31) Cyclohexane                | 7.95  | 56   | 5382     | 1.214     | ug/l # | 1      |
| 36) 1,1-Dichloropropene        | 7.95  | 75   | 17708    | 4.974     | ug/l # | 51     |
| 38) Carbon Tetrachloride       | 7.95  | 117  | 20968    | 6.880     | ug/l # | 16     |
| 49) 1,4-Dioxane                | 9.37  | 88   | 22       | 1.248     | ug/l # | 1      |
| 76) 1,2,3-Trichloropropane     | 12.62 | 75   | 71115    | 58.708    | ug/l # | 100    |
| 81) trans-1,4-Dichloro-2-buten | 12.62 | 75   | 71115    | 135.302   | ug/l # | 6      |
| 95) Naphthalene                | 15.38 | 128  | 117      | 2.091     | ug/l # | 69     |

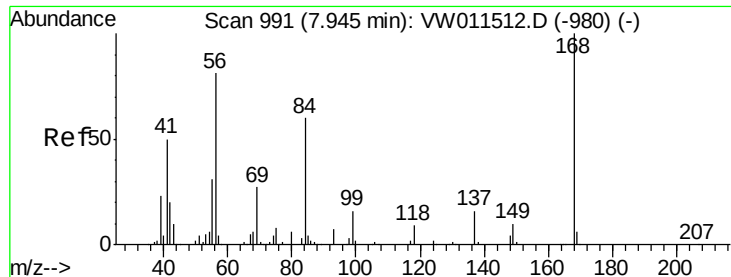
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VW011942.D

Acq: 15 Aug 2019 21:18

Instrument :

MSVOA\_W

ClientSampleId :

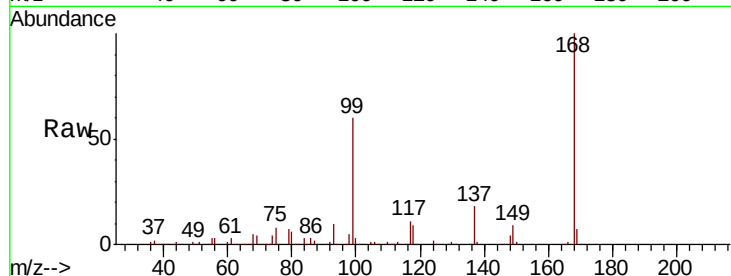
PX-03-081319

Tgt Ion:168 Resp: 206537

Ion Ratio Lower Upper

168 100

99 60.3 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

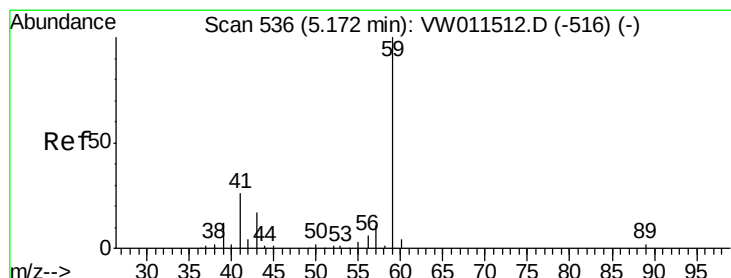
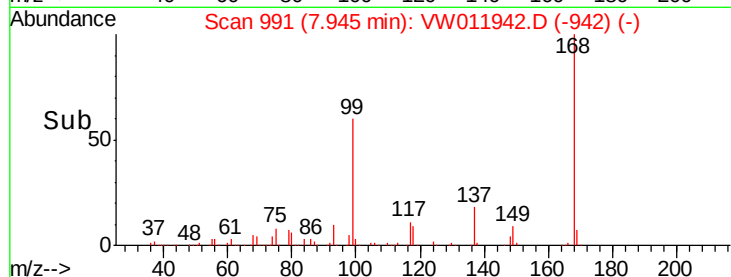
60000

40000

20000

0

Time-->



#11

Tert butyl alcohol

Concen: Below Cal

RT: 5.17 min Scan# 535

Delta R.T. -0.01 min

Lab File: VW011942.D

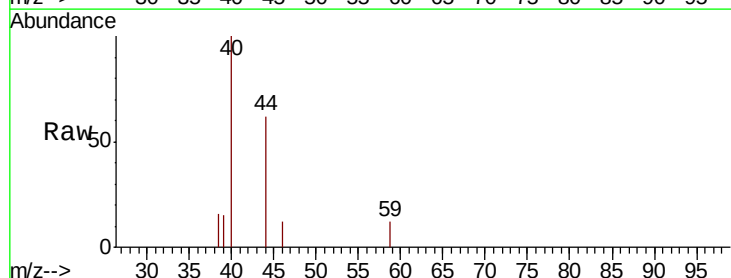
Acq: 15 Aug 2019 21:18

Tgt Ion: 59 Resp: 19

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

5.17

80

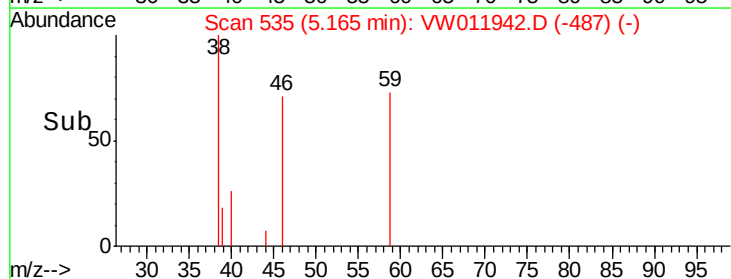
60

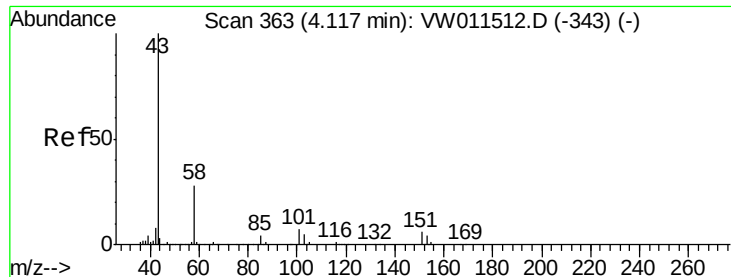
40

20

0

Time-->





#16

Acetone

Concen: 1.995 ug/l

RT: 4.15 min Scan# 369

Delta R.T. 0.04 min

Lab File: VW011942.D

Acq: 15 Aug 2019 21:18

Instrument :

MSVOA\_W

ClientSampleId :

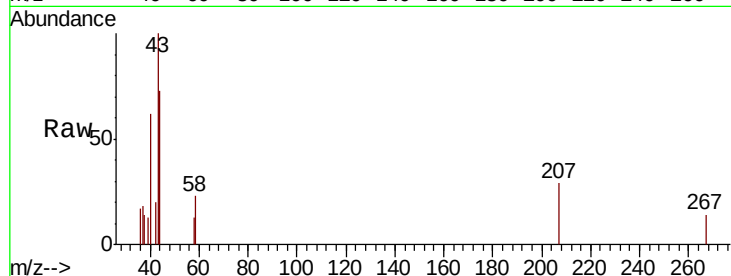
PX-03-081319

Tgt Ion: 43 Resp: 1505

Ion Ratio Lower Upper

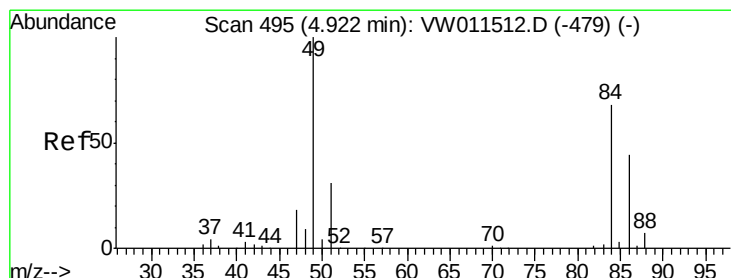
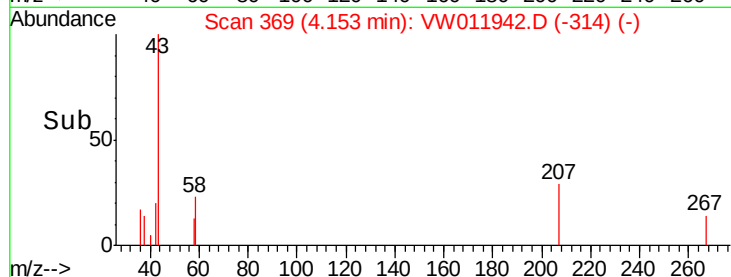
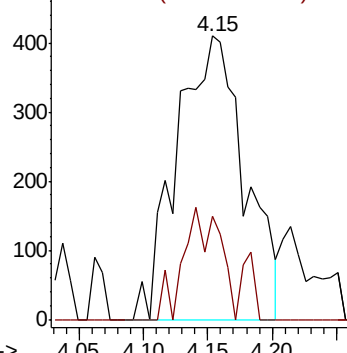
43 100

58 36.6 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: 2.414 ug/l

RT: 4.91 min Scan# 493

Delta R.T. -0.01 min

Lab File: VW011942.D

Acq: 15 Aug 2019 21:18

Tgt Ion: 84 Resp: 6281

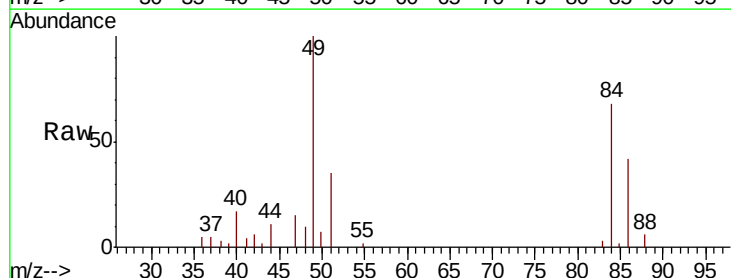
Ion Ratio Lower Upper

84 100

49 147.1 117.8 176.6

51 51.6 37.0 55.4

86 61.2 51.8 77.8

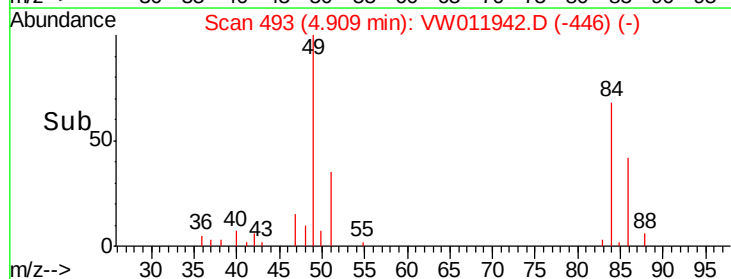
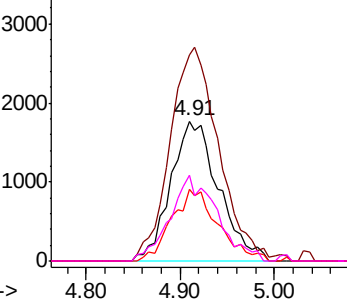


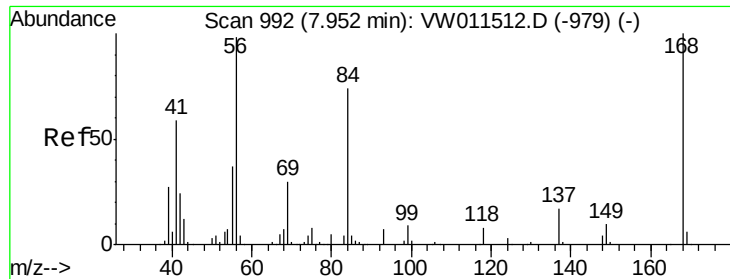
Abundance Ion 83.90 (83.60 to 84.60): VW

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

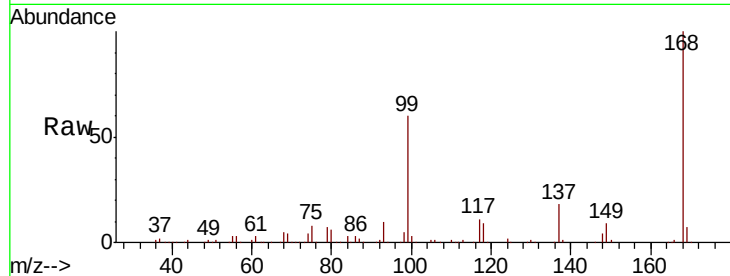




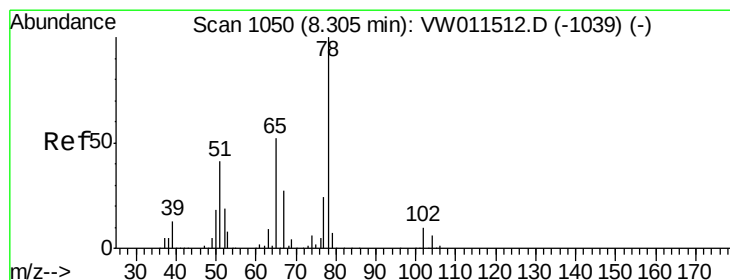
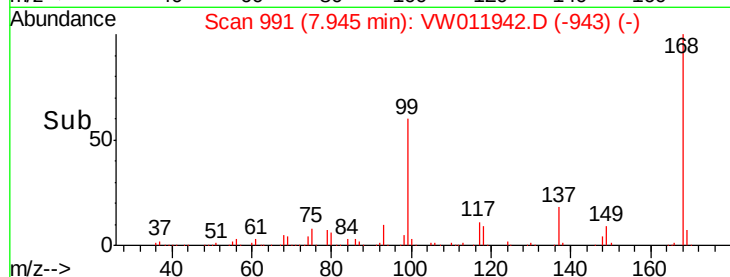
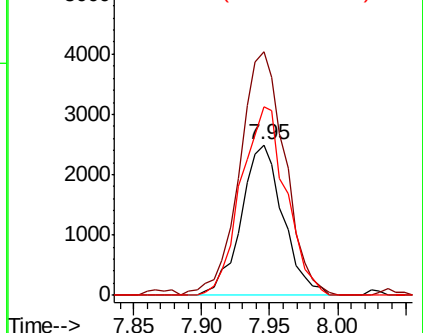
#31  
Cyclohexane  
Concen: 1.214 ug/l  
RT: 7.95 min Scan# 991  
Delta R.T. -0.01 min  
Lab File: VW011942.D  
Acq: 15 Aug 2019 21:18

Instrument :  
MSVOA\_W  
ClientSampled :  
PX-03-081319

Tgt Ion: 56 Resp: 5382  
Ion Ratio Lower Upper  
56 100  
69 162.0 24.3 36.5#  
84 125.3 60.4 90.6#

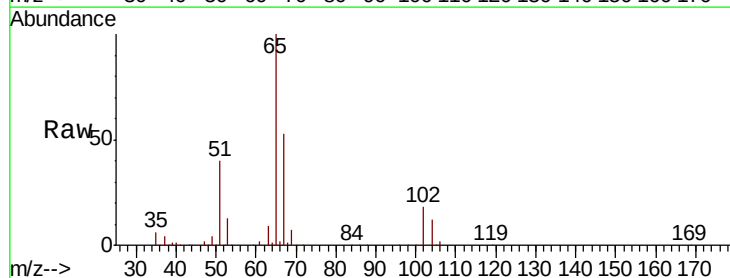


Abundance Ion 56.00 (55.70 to 56.70): VW  
Ion 69.00 (68.70 to 69.70): VW  
Ion 84.00 (83.70 to 84.70): VW

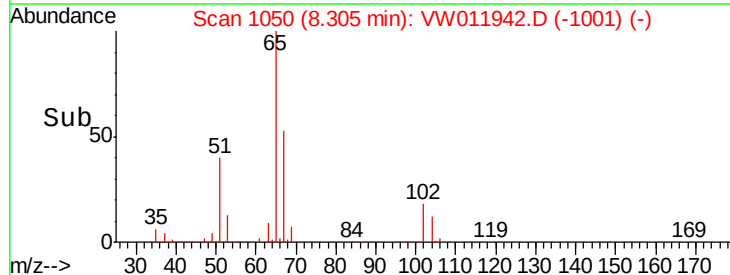
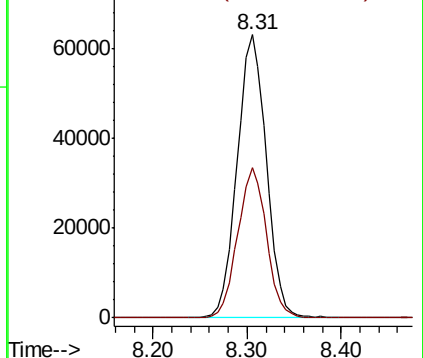


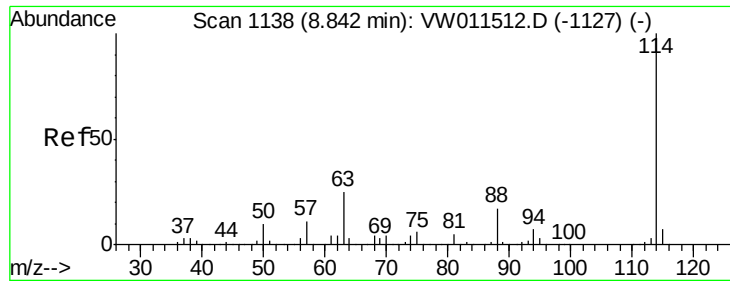
#33  
1,2-Dichloroethane-d4  
Concen: 57.594 ug/l  
RT: 8.31 min Scan# 1050  
Delta R.T. -0.00 min  
Lab File: VW011942.D  
Acq: 15 Aug 2019 21:18

Tgt Ion: 65 Resp: 136591  
Ion Ratio Lower Upper  
65 100  
67 52.5 0.0 105.2



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

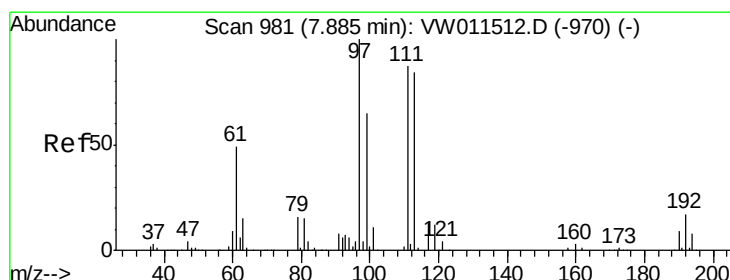
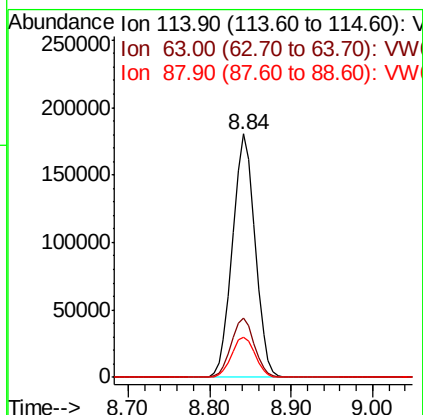
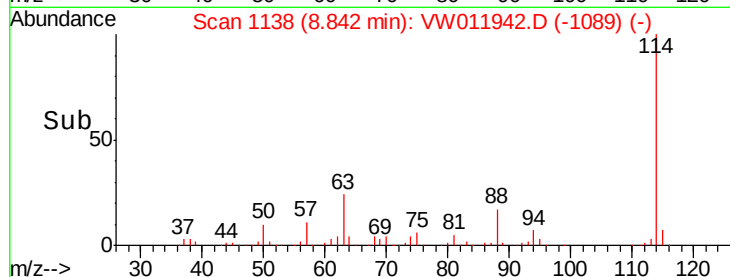
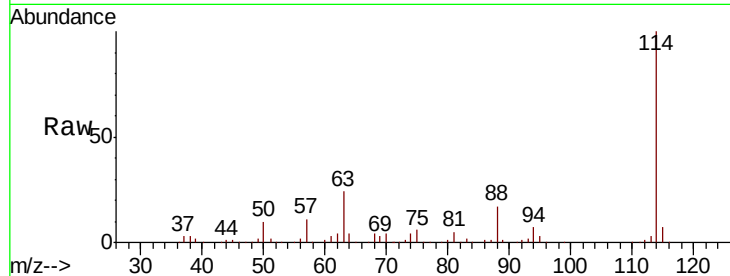




#34  
1,4-Difluorobenzene  
Concen: 50.000 ug/l  
RT: 8.84 min Scan# 1138  
Delta R.T. -0.00 min  
Lab File: VW011942.D  
Acq: 15 Aug 2019 21:18

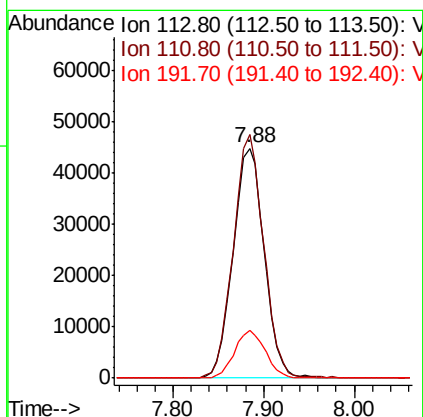
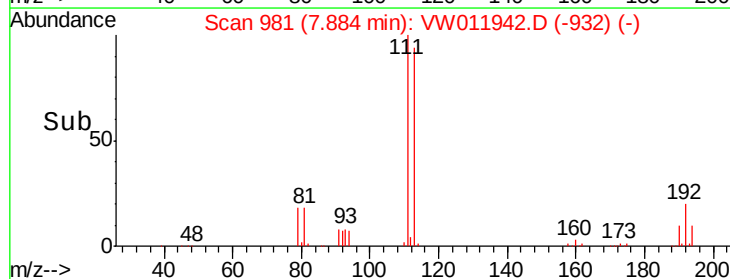
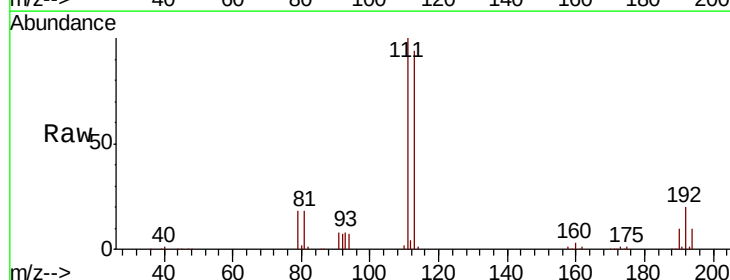
Instrument :  
MSVOA\_W  
ClientSampleId :  
PX-03-081319

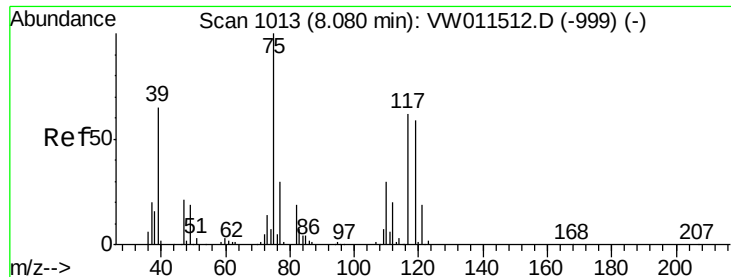
Tgt Ion:114 Resp: 342377  
Ion Ratio Lower Upper  
114 100  
63 24.2 0.0 49.2  
88 16.6 0.0 33.8



#35  
Dibromofluoromethane  
Concen: 55.564 ug/l  
RT: 7.88 min Scan# 981  
Delta R.T. -0.00 min  
Lab File: VW011942.D  
Acq: 15 Aug 2019 21:18

Tgt Ion:113 Resp: 106728  
Ion Ratio Lower Upper  
113 100  
111 103.1 82.7 124.1  
192 20.4 16.1 24.1





#36

1,1-Dichloropropene

Concen: 4.974 ug/l

RT: 7.95 min Scan# 991

Delta R.T. -0.13 min

Lab File: VW011942.D

Acq: 15 Aug 2019 21:18

Instrument :

MSVOA\_W

ClientSampled :

PX-03-081319

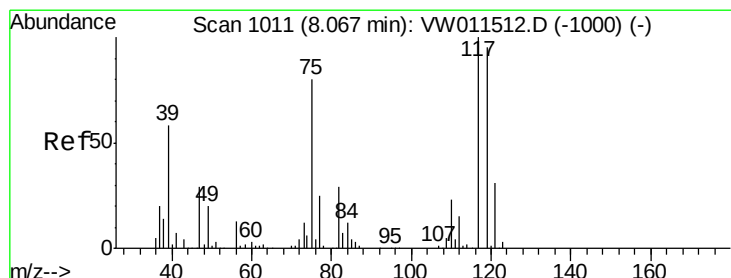
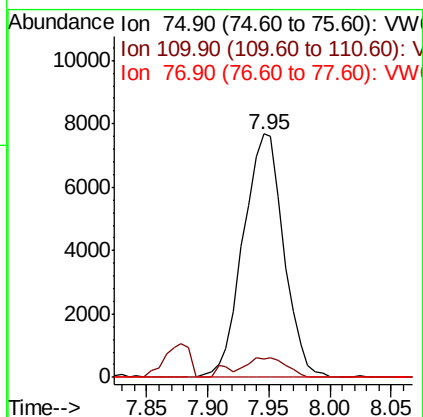
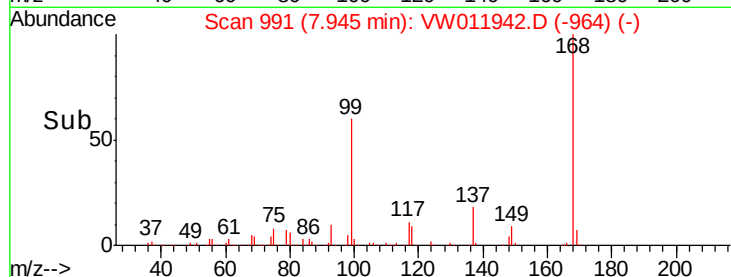
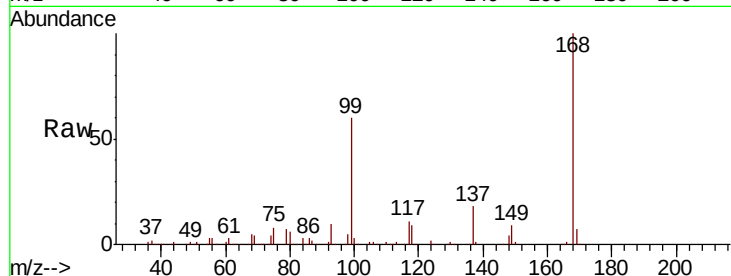
Tgt Ion: 75 Resp: 17708

Ion Ratio Lower Upper

75 100

110 7.9 15.6 46.8#

77 0.0 24.3 36.5#



#38

Carbon Tetrachloride

Concen: 6.880 ug/l

RT: 7.95 min Scan# 991

Delta R.T. -0.12 min

Lab File: VW011942.D

Acq: 15 Aug 2019 21:18

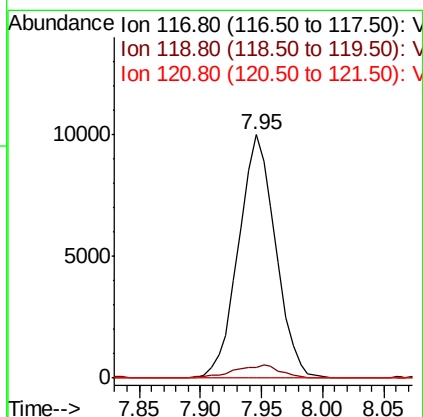
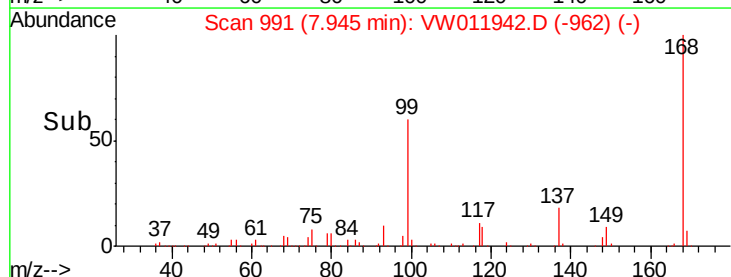
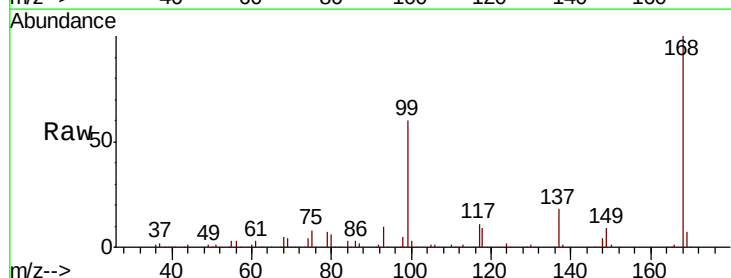
Tgt Ion: 117 Resp: 20968

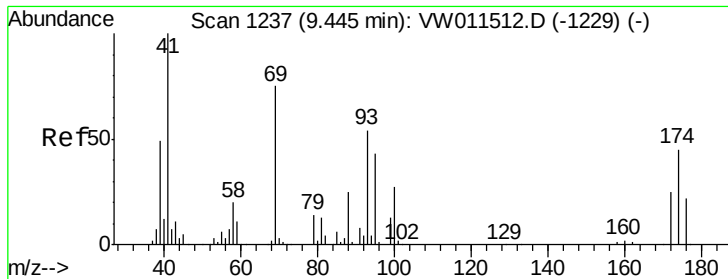
Ion Ratio Lower Upper

117 100

119 4.6 75.8 113.6#

121 0.0 24.7 37.1#





#49

1,4-Dioxane

Concen: 1.248 ug/l

RT: 9.37 min Scan# 1224

Delta R.T. -0.08 min

Lab File: VW011942.D

Acq: 15 Aug 2019 21:18

Instrument :

MSVOA\_W

ClientSampleId :

PX-03-081319

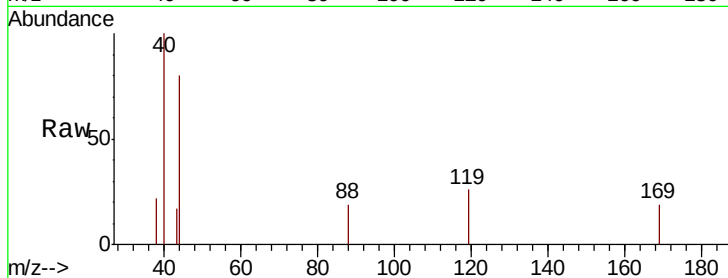
Tgt Ion: 88 Resp: 22

Ion Ratio Lower Upper

88 100

43 200.0 34.0 51.0#

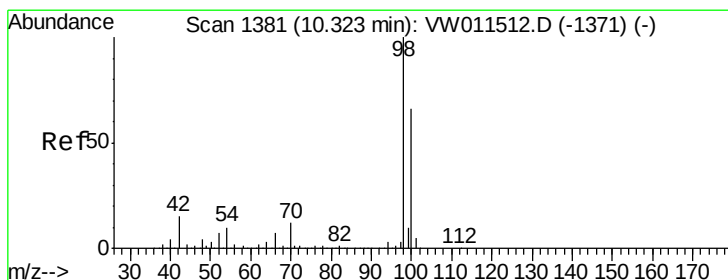
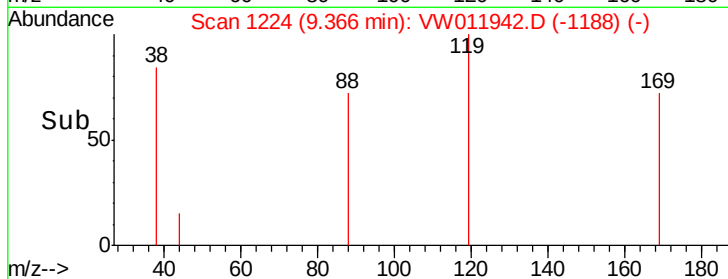
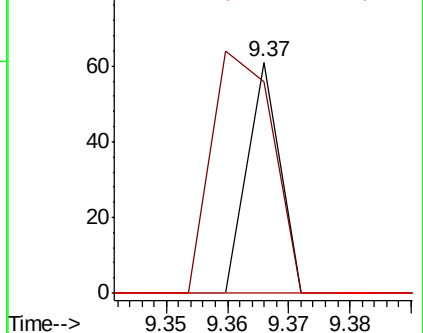
58 0.0 69.7 104.5#



Abundance Ion 88.00 (87.70 to 88.70): VW

Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW



#50

Toluene-d8

Concen: 53.400 ug/l

RT: 10.32 min Scan# 1381

Delta R.T. -0.00 min

Lab File: VW011942.D

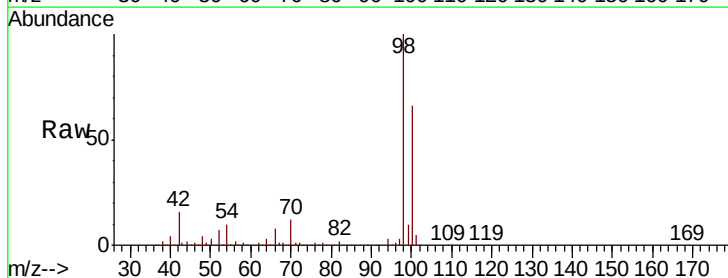
Acq: 15 Aug 2019 21:18

Tgt Ion: 98 Resp: 419952

Ion Ratio Lower Upper

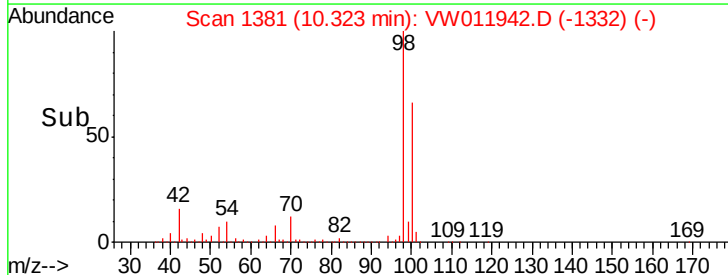
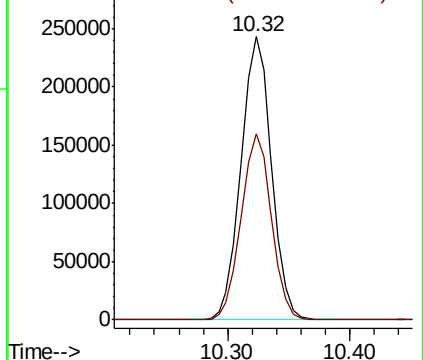
98 100

100 65.4 52.7 79.1

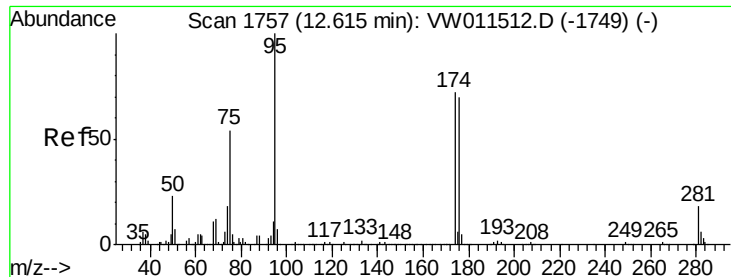


Abundance Ion 98.00 (97.70 to 98.70): VW

Ion 100.00 (99.70 to 100.70): VW



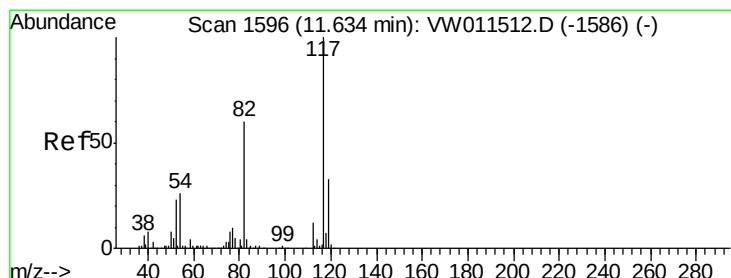
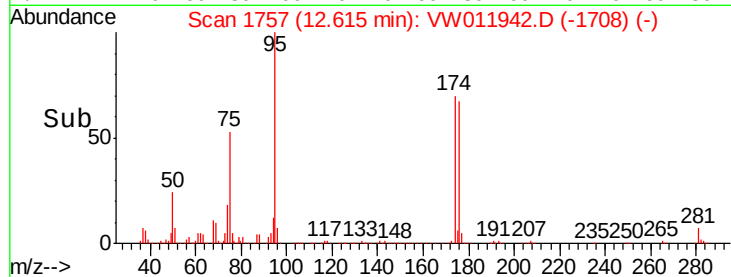
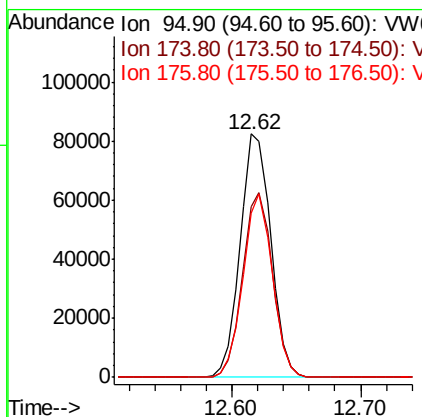
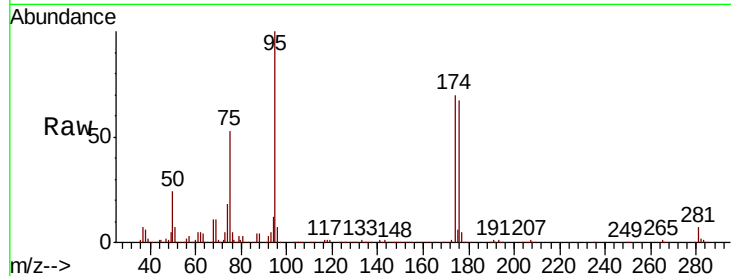




#62  
4-Bromofluorobenzene  
Concen: 48.267 ug/l  
RT: 12.62 min Scan# 1757  
Delta R.T. -0.00 min  
Lab File: VW011942.D  
Acq: 15 Aug 2019 21:18

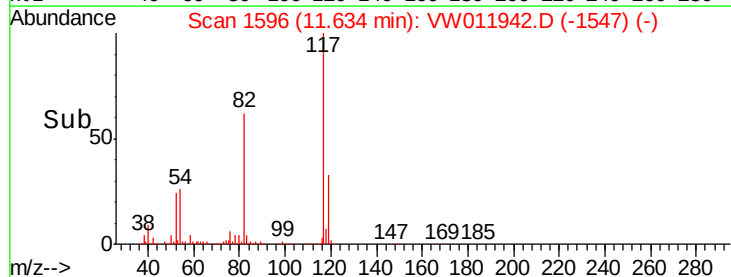
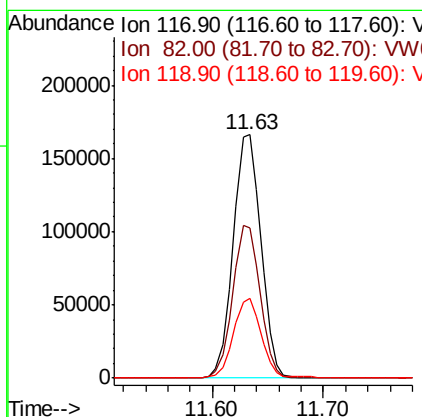
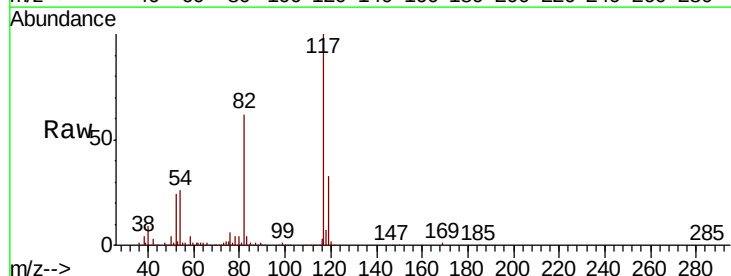
Instrument :  
MSVOA\_W  
ClientSampleId :  
PX-03-081319

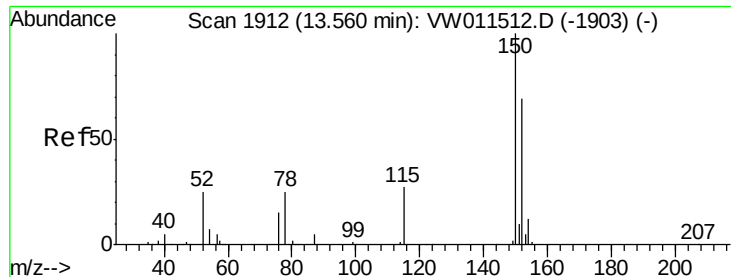
Tgt Ion: 95 Resp: 135329  
Ion Ratio Lower Upper  
95 100  
174 74.2 0.0 150.2  
176 72.3 0.0 144.4



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.63 min Scan# 1596  
Delta R.T. -0.00 min  
Lab File: VW011942.D  
Acq: 15 Aug 2019 21:18

Tgt Ion: 117 Resp: 287116  
Ion Ratio Lower Upper  
117 100  
82 61.8 47.9 71.9  
119 32.7 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: VW011942.D

Acq: 15 Aug 2019 21:18

Instrument :

MSVOA\_W

ClientSampleId :

PX-03-081319

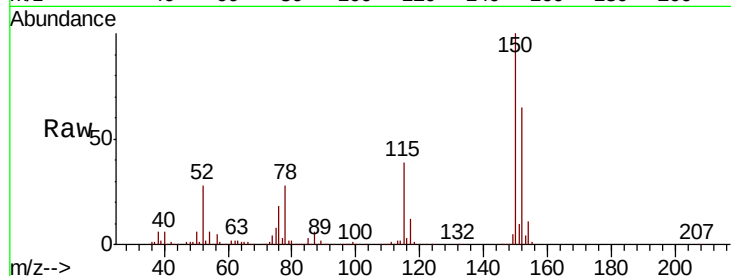
Tgt Ion: 152 Resp: 114480

Ion Ratio Lower Upper

152 100

115 60.4 30.5 91.5

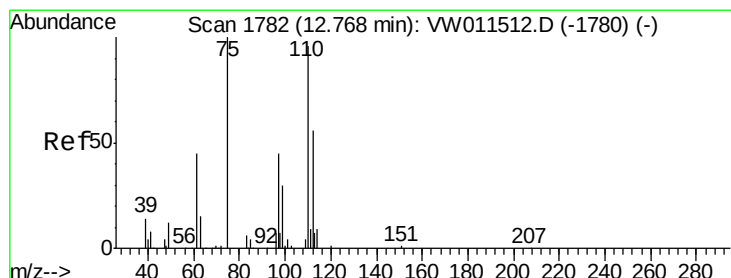
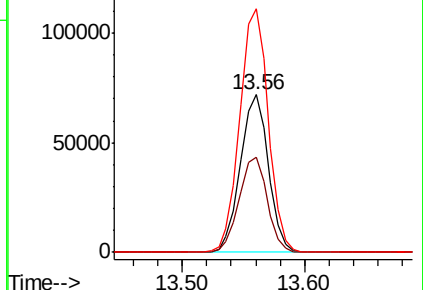
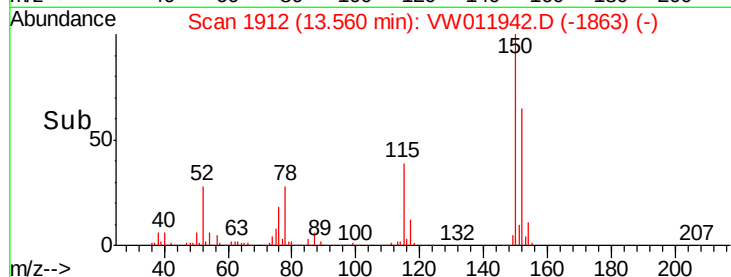
150 156.8 0.0 352.6



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: 58.708 ug/l

RT: 12.62 min Scan# 1757

Delta R.T. -0.15 min

Lab File: VW011942.D

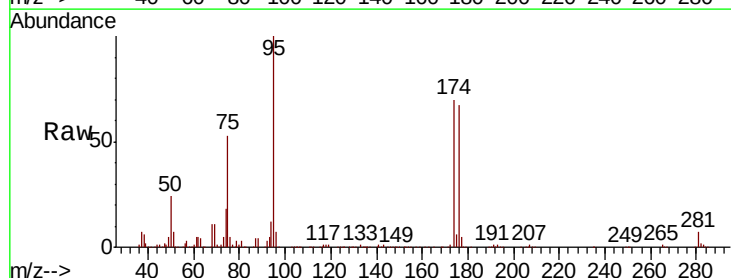
Acq: 15 Aug 2019 21:18

Tgt Ion: 75 Resp: 71115

Ion Ratio Lower Upper

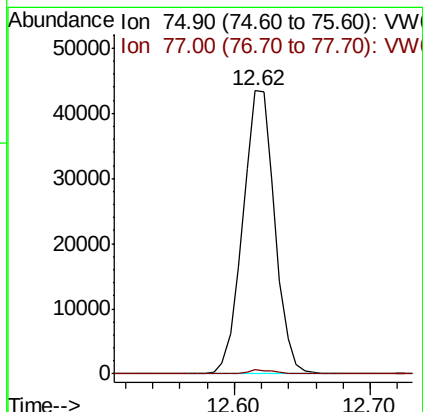
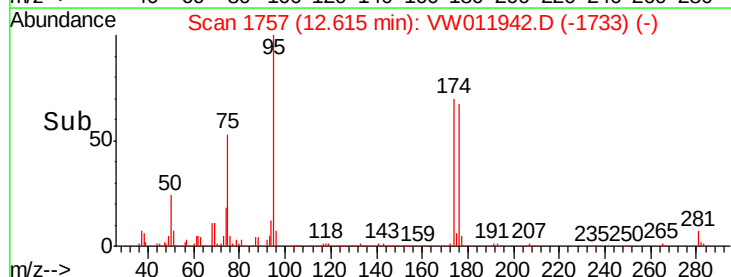
75 100

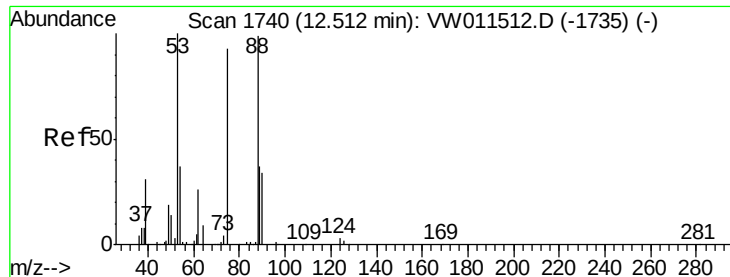
77 1.4 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 77.00 (76.70 to 77.70): VW

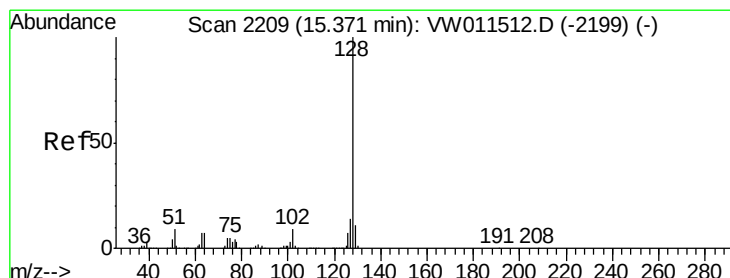
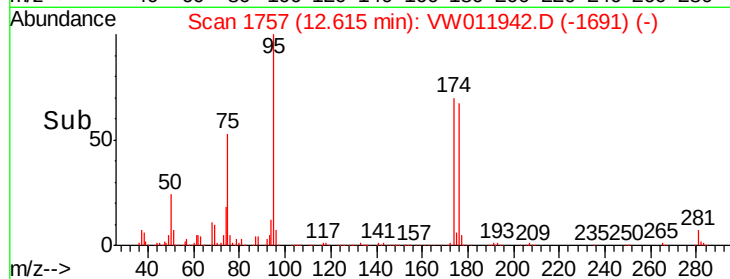
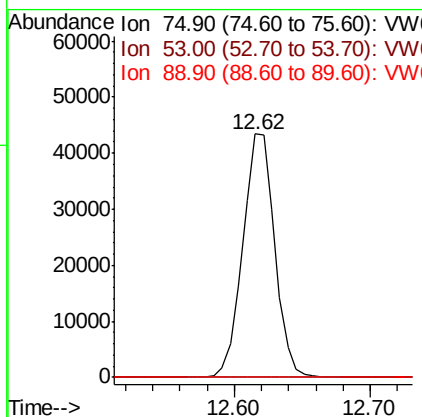
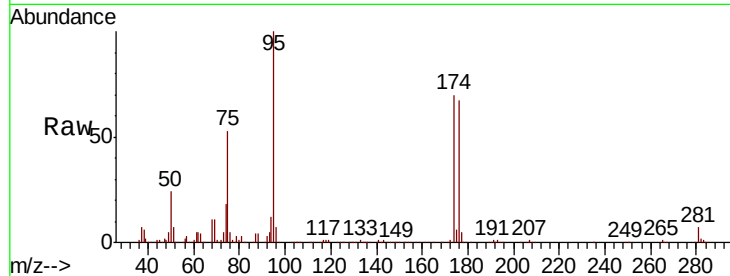




#81  
trans-1,4-Dichloro-2-butene  
Concen: 135.302 ug/l  
RT: 12.62 min Scan# 1757  
Delta R.T. 0.10 min  
Lab File: VW011942.D  
Acq: 15 Aug 2019 21:18

Instrument :  
MSVOA\_W  
ClientSampleId :  
PX-03-081319

Tgt Ion: 75 Resp: 71115  
Ion Ratio Lower Upper  
75 100  
53 0.0 88.0 132.0#  
89 0.0 35.3 52.9#



#95  
Naphthalene  
Concen: 2.091 ug/l  
RT: 15.38 min Scan# 2210  
Delta R.T. 0.01 min  
Lab File: VW011942.D  
Acq: 15 Aug 2019 21:18

Tgt Ion: 128 Resp: 117  
Ion Ratio Lower Upper  
128 100  
127 0.0 10.6 16.0#  
129 0.0 8.6 13.0#

