

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_X\DATA\VX080819\  
 Data File : VX011381.D  
 Acq On : 08 Aug 2019 10:48  
 Operator : JC/SP  
 Sample : VX0808WBL01  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 4 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VX0808WBL01

Quant Time: Aug 09 04:21:46 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X080119W.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Aug 02 01:55:00 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.66  | 168  | 159382   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.85  | 114  | 258134   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.11 | 117  | 247387   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.08 | 152  | 113495   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-----------------------------|-------|------|----------|-------|-------|----------|
| 33) 1,2-Dichloroethane-d4   | 6.06  | 65   | 92680    | 57.74 | ug/l  | 0.00     |
| Spiked Amount               |       |      |          |       |       |          |
|                             |       |      |          |       |       |          |
| 35) Dibromofluoromethane    | 5.49  | 113  | 83061    | 49.29 | ug/l  | 0.00     |
| Spiked Amount               |       |      |          |       |       |          |
|                             |       |      |          |       |       |          |
| 50) Toluene-d8              | 8.71  | 98   | 313874   | 49.34 | ug/l  | 0.00     |
| Spiked Amount               |       |      |          |       |       |          |
|                             |       |      |          |       |       |          |
| 62) 4-Bromofluorobenzene    | 11.13 | 95   | 108878   | 47.94 | ug/l  | 0.00     |
| Spiked Amount               |       |      |          |       |       |          |
|                             |       |      |          |       |       |          |

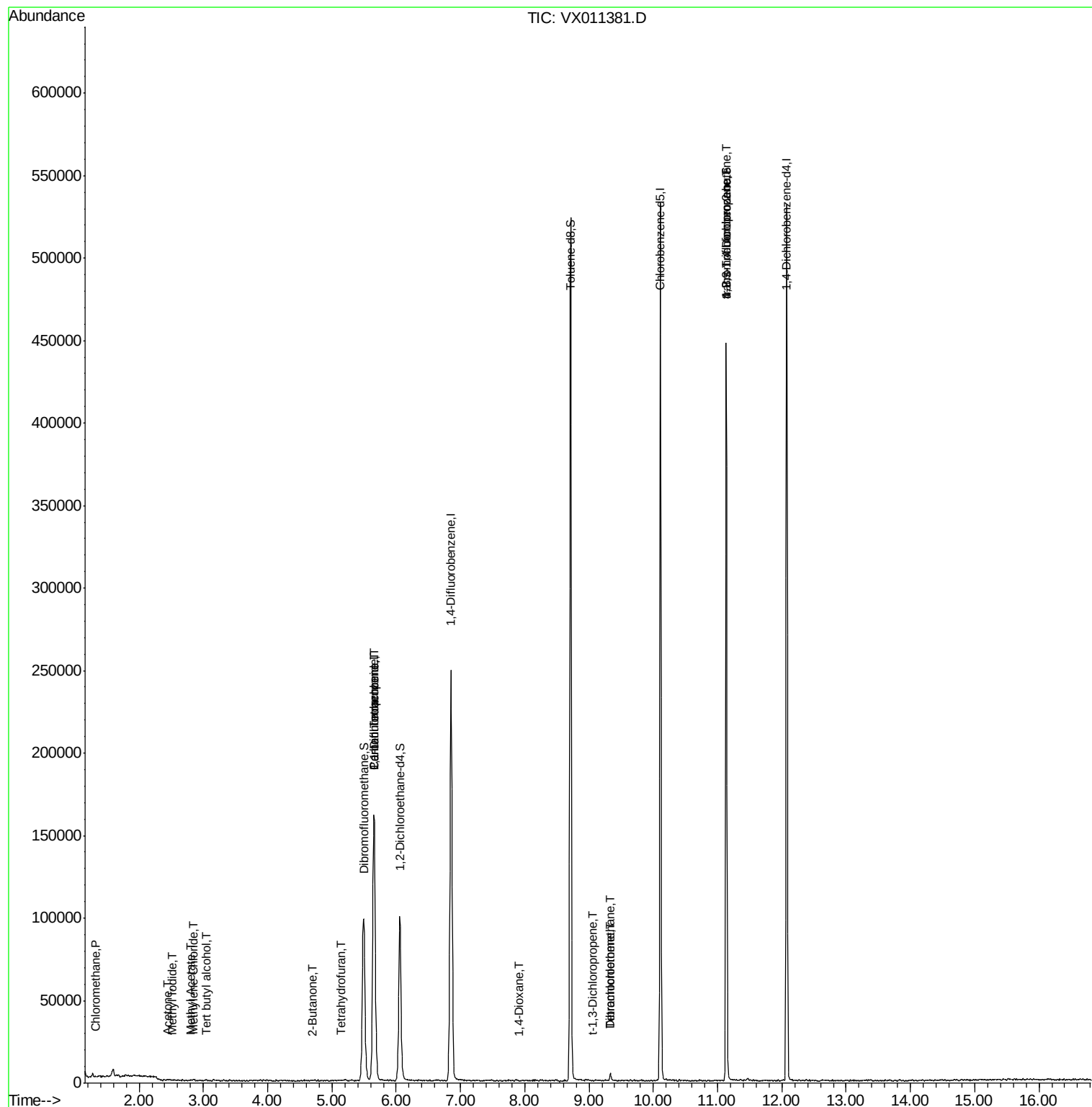
| Target Compounds               | R.T.  | QIon | Response | Conc      | Units  | Qvalue |
|--------------------------------|-------|------|----------|-----------|--------|--------|
| 3) Chloromethane               | 1.32  | 50   | 400      | 0.289     | ug/l # | 56     |
| 6) Chloroethane                | 1.71  | 64   | 136      | Below Cal | #      | 18     |
| 10) Methyl Iodide              | 2.52  | 142  | 379      | 0.205     | ug/l # | 72     |
| 11) Tert butyl alcohol         | 3.05  | 59   | 140      | 0.460     | ug/l # | 72     |
| 16) Acetone                    | 2.44  | 43   | 378      | 0.495     | ug/l # | 40     |
| 18) Methyl Acetate             | 2.80  | 43   | 365      | 0.209     | ug/l # | 49     |
| 20) Methylene Chloride         | 2.85  | 84   | 342      | 0.204     | ug/l # | 76     |
| 25) 2-Butanone                 | 4.70  | 43   | 221      | 0.203     | ug/l # | 46     |
| 29) Tetrahydrofuran            | 5.13  | 42   | 191      | 0.287     | ug/l # | 61     |
| 36) 1,1-Dichloropropene        | 5.66  | 75   | 11084    | 4.918     | ug/l # | 48     |
| 38) Carbon Tetrachloride       | 5.65  | 117  | 15216    | 6.711     | ug/l # | 14     |
| 49) 1,4-Dioxane                | 7.91  | 88   | 24       | 0.487     | ug/l # | 1      |
| 53) t-1,3-Dichloropropene      | 9.05  | 75   | 28       | 2.849     | ug/l # | 43     |
| 60) Dibromochloromethane       | 9.33  | 129  | 966      | 0.516     | ug/l # | 10     |
| 64) Tetrachloroethene          | 9.34  | 164  | 1003     | 0.477     | ug/l # | 82     |
| 76) 1,2,3-Trichloropropane     | 11.13 | 75   | 56482    | 27.327    | ug/l # | 35     |
| 81) trans-1,4-Dichloro-2-buten | 11.13 | 75   | 56482    | 70.891    | ug/l # | 10     |

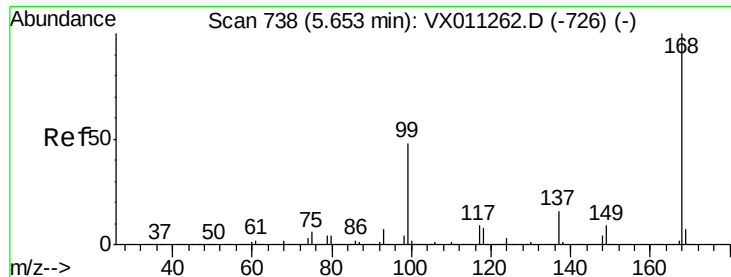
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA\_X\DATA\VX080819\  
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ALS Vial : 4 Sample Multiplier: 1

Instrument :  
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ClientSampleID :  
VX0808WBL01

Quant Time: Aug 09 04:21:46 2019  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_X\METHOD\82X080119W.M  
Quant Title : SW846 8260  
QLast Update : Fri Aug 02 01:55:00 2019  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.66 min Scan# 739

Delta R.T. 0.01 min

Lab File: VX011381.D

Acq: 08 Aug 2019 10:48

Instrument :

MSVOA\_X

ClientSampleId :

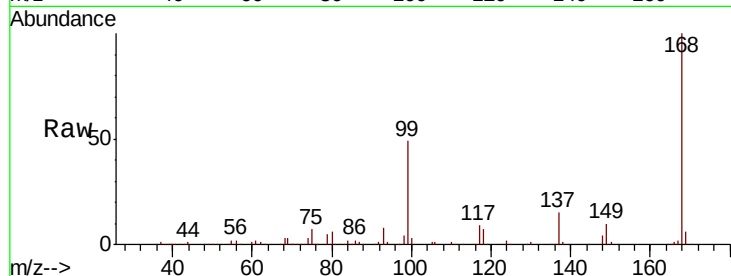
VX0808WBL01

Tgt Ion:168 Resp: 159382

Ion Ratio Lower Upper

168 100

99 49.3 38.5 57.7



Abundance Ion 167.90 (167.60 to 168.60): VX0

Ion 98.90 (98.60 to 99.60): VX0

5.66

60000

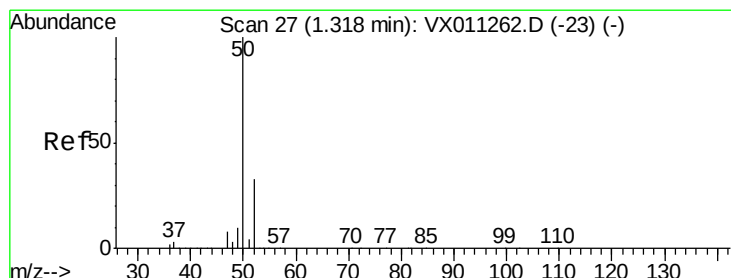
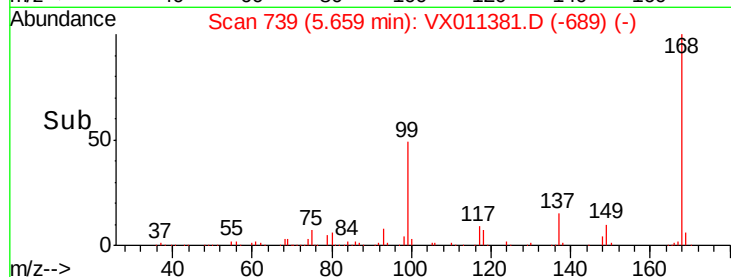
40000

20000

0

Time-->

5.50 5.60 5.70 5.80



#3

Chloromethane

Concen: 0.289 ug/l

RT: 1.32 min Scan# 28

Delta R.T. 0.01 min

Lab File: VX011381.D

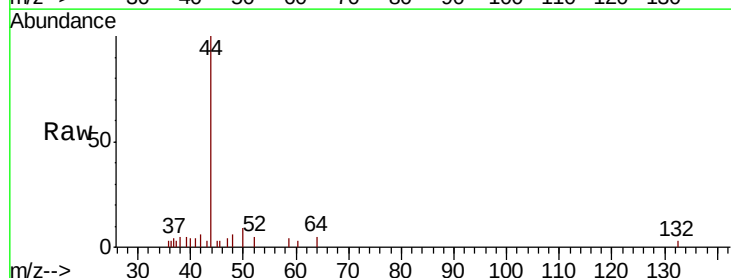
Acq: 08 Aug 2019 10:48

Tgt Ion: 50 Resp: 400

Ion Ratio Lower Upper

50 100

52 57.9 26.4 39.6#



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

1.32

200

150

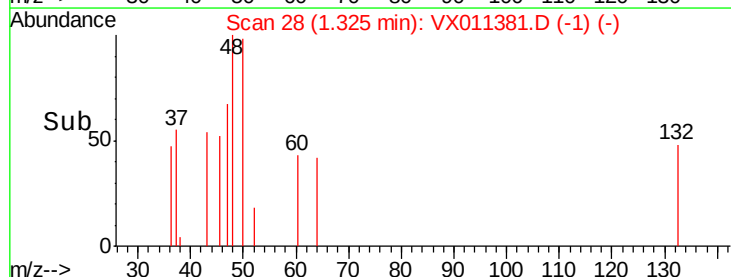
100

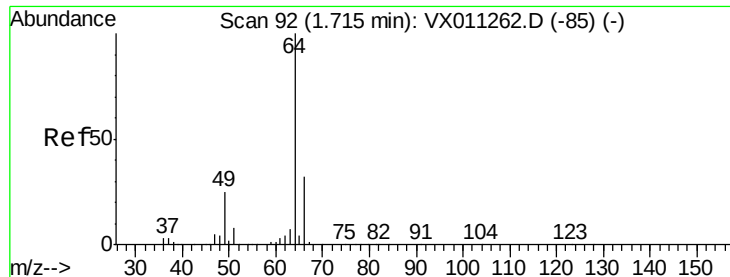
50

0

Time-->

1.30 1.35





#6

Chloroethane

Concen: Below Cal

RT: 1.71 min Scan# 92

Delta R.T. 0.00 min

Lab File: VX011381.D

Acq: 08 Aug 2019 10:48

Instrument :

MSVOA\_X

ClientSampleId :

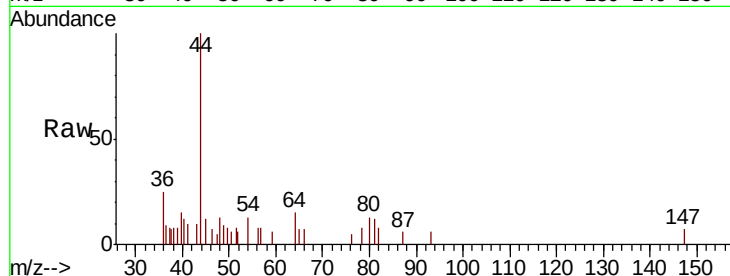
VX0808WBL01

Tgt Ion: 64 Resp: 136

Ion Ratio Lower Upper

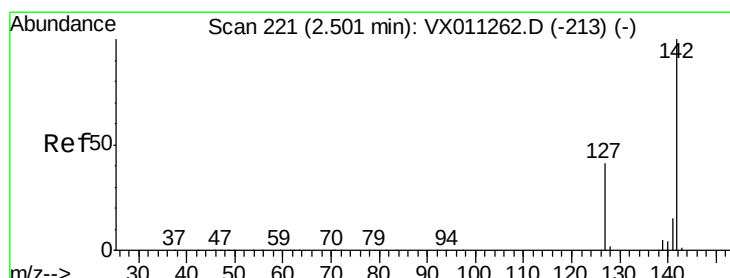
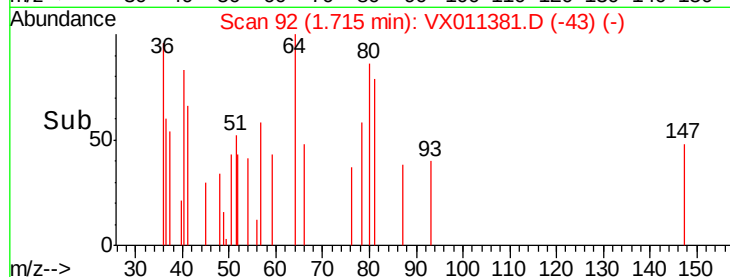
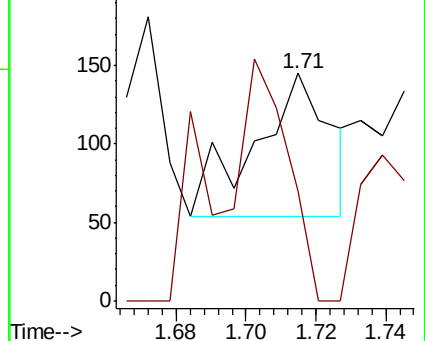
64 100

66 76.9 25.1 37.7#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0



#10

Methyl Iodide

Concen: 0.205 ug/l

RT: 2.52 min Scan# 224

Delta R.T. 0.02 min

Lab File: VX011381.D

Acq: 08 Aug 2019 10:48

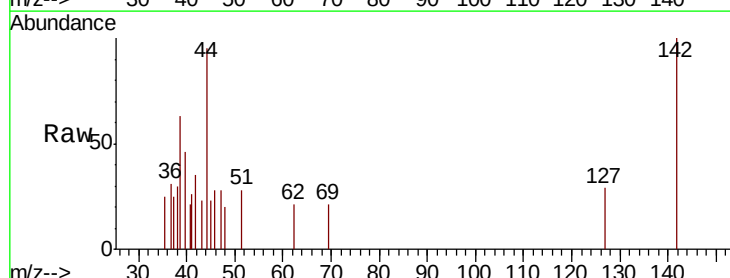
Tgt Ion: 142 Resp: 379

Ion Ratio Lower Upper

142 100

127 26.1 33.8 50.8#

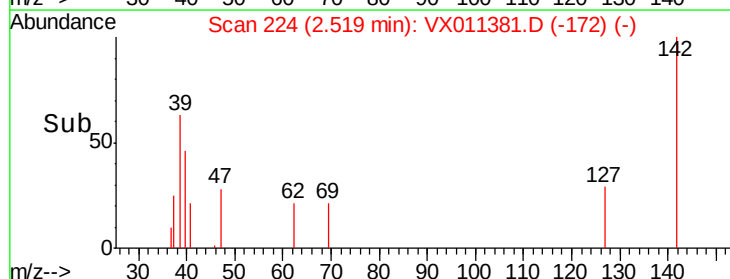
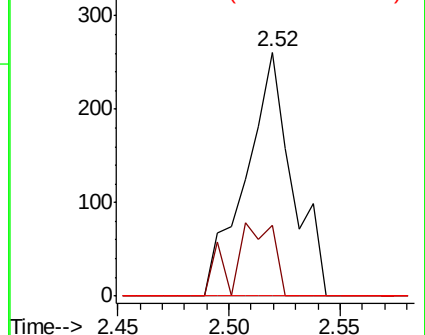
141 0.0 11.4 17.2#

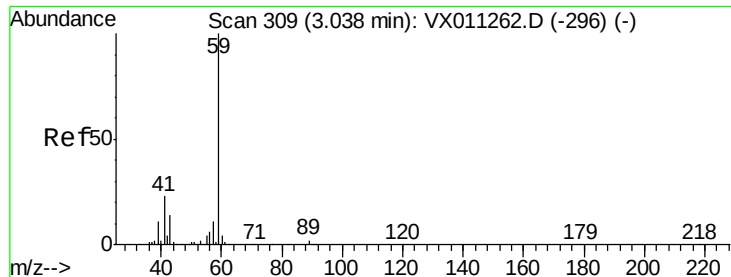


Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V

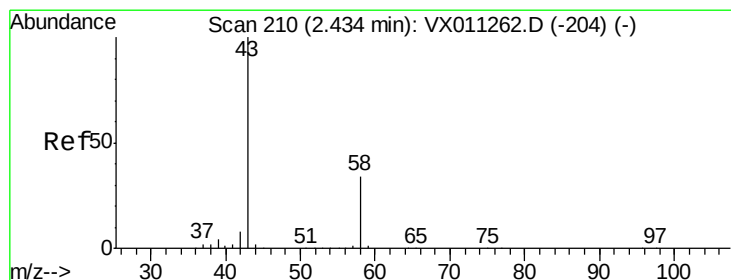
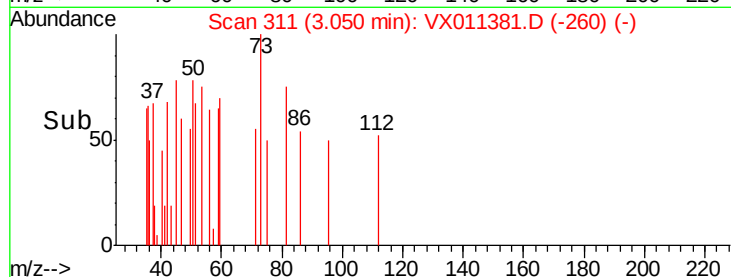
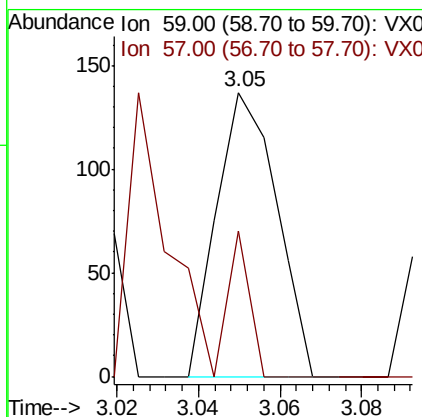
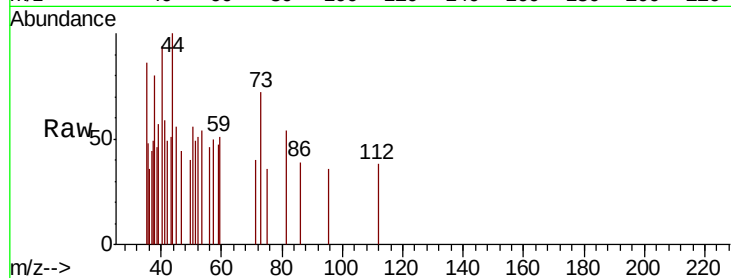




#11  
Tert butyl alcohol  
Concen: 0.460 ug/l  
RT: 3.05 min Scan# 311  
Delta R.T. 0.01 min  
Lab File: VX011381.D  
Acq: 08 Aug 2019 10:48

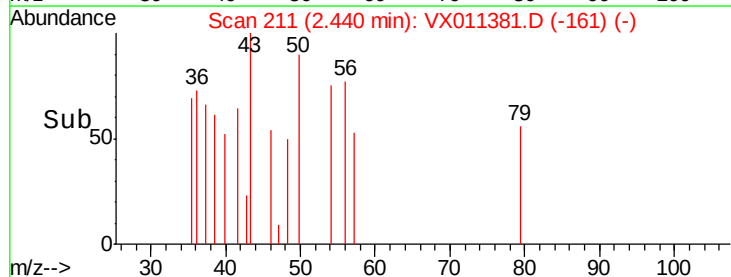
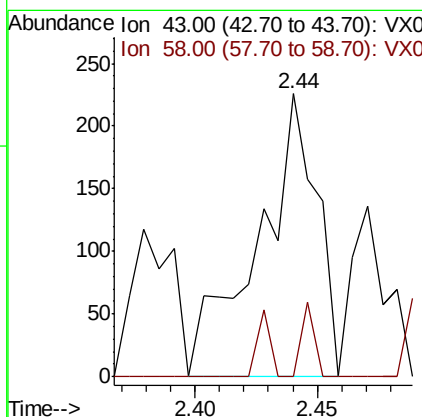
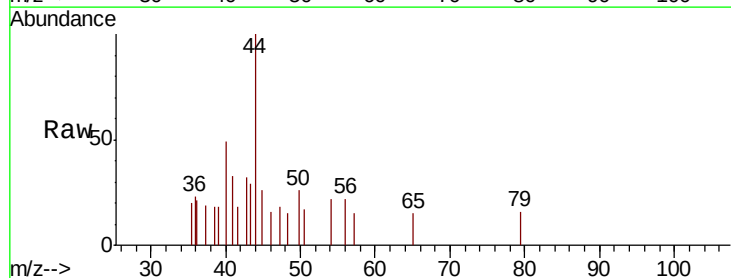
Instrument :  
MSVOA\_X  
ClientSampled :  
VX0808WBL01

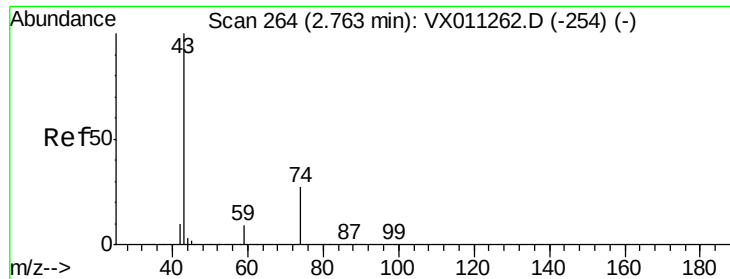
Tgt Ion: 59 Resp: 140  
Ion Ratio Lower Upper  
59 100  
57 0.0 8.3 12.5#



#16  
Acetone  
Concen: 0.495 ug/l  
RT: 2.44 min Scan# 211  
Delta R.T. 0.01 min  
Lab File: VX011381.D  
Acq: 08 Aug 2019 10:48

Tgt Ion: 43 Resp: 378  
Ion Ratio Lower Upper  
43 100  
58 0.0 27.4 41.0#

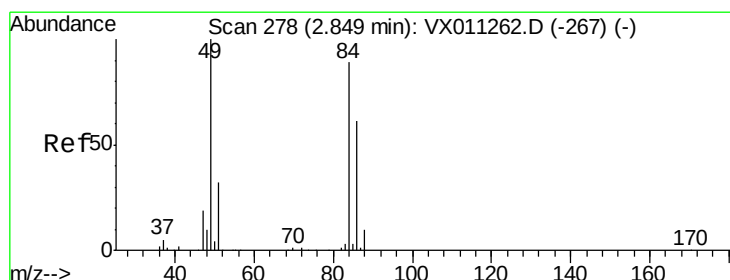
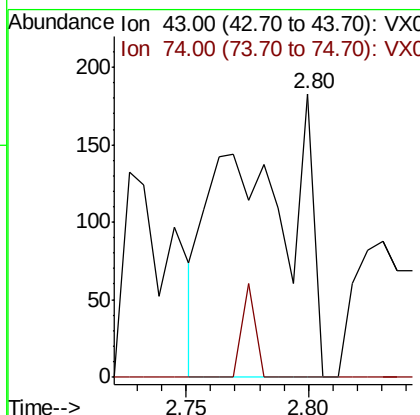
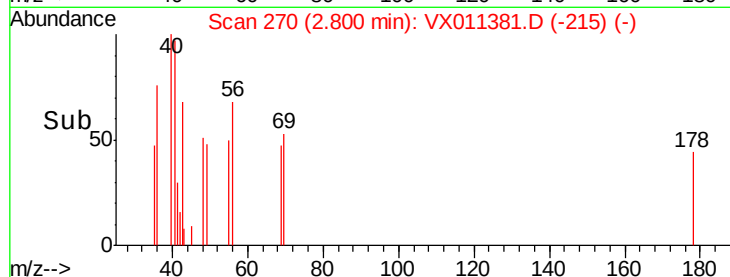
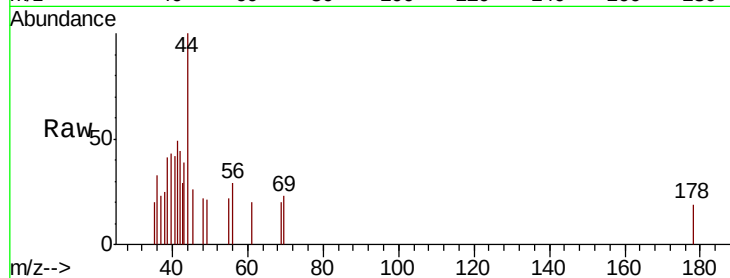




#18  
Methyl Acetate  
Concen: 0.209 ug/l  
RT: 2.80 min Scan# 270  
Delta R.T. 0.04 min  
Lab File: VX011381.D  
Acq: 08 Aug 2019 10:48

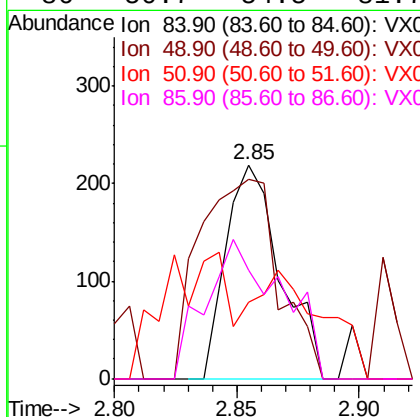
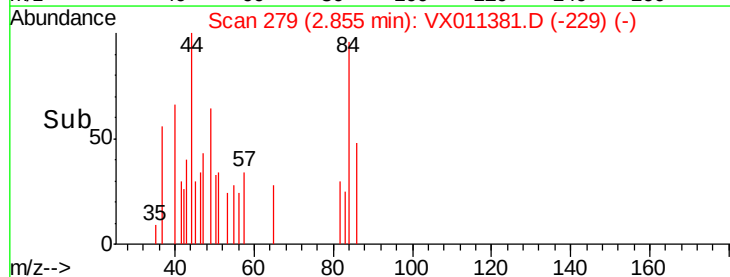
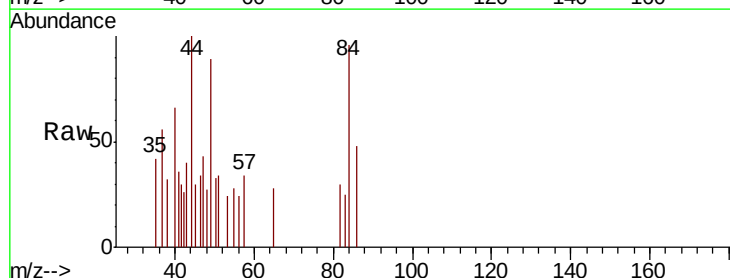
Instrument :  
MSVOA\_X  
ClientSampleId :  
VX0808WBL01

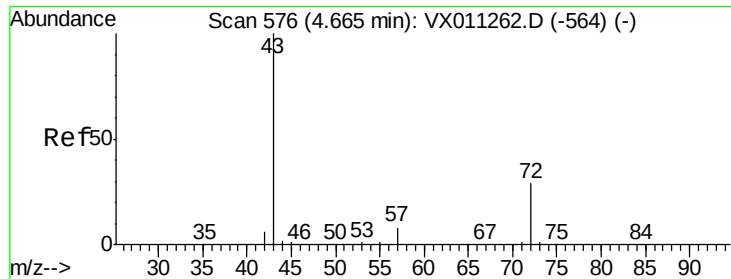
Tgt Ion: 43 Resp: 365  
Ion Ratio Lower Upper  
43 100  
74 0.0 21.0 31.6#



#20  
Methylene Chloride  
Concen: 0.204 ug/l  
RT: 2.85 min Scan# 279  
Delta R.T. 0.01 min  
Lab File: VX011381.D  
Acq: 08 Aug 2019 10:48

Tgt Ion: 84 Resp: 342  
Ion Ratio Lower Upper  
84 100  
49 93.2 89.3 133.9  
51 7.3 28.3 42.5#  
86 50.7 54.5 81.7#





#25

2-Butanone

Concen: 0.203 ug/l

RT: 4.70 min Scan# 582

Delta R.T. 0.04 min

Lab File: VX011381.D

Acq: 08 Aug 2019 10:48

Instrument :

MSVOA\_X

ClientSampled :

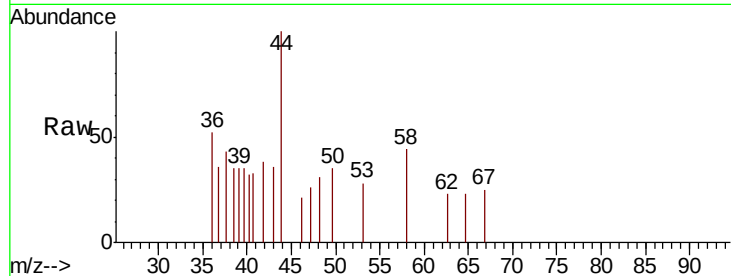
VX0808WBL01

Tgt Ion: 43 Resp: 221

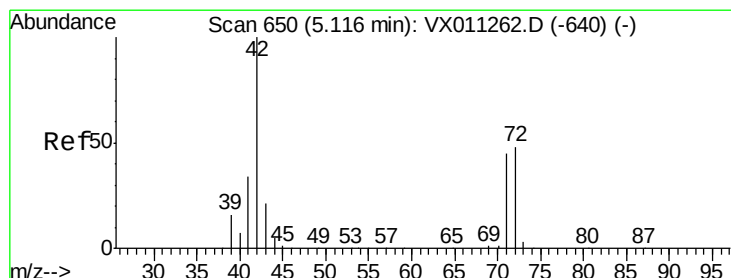
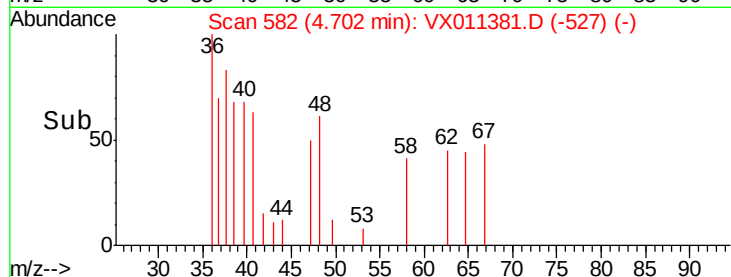
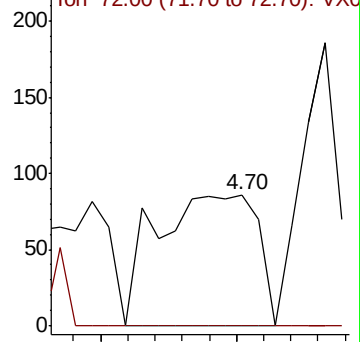
Ion Ratio Lower Upper

43 100

72 0.0 23.2 34.8#



Abundance Ion 43.00 (42.70 to 43.70): VX0



#29

Tetrahydrofuran

Concen: 0.287 ug/l

RT: 5.13 min Scan# 653

Delta R.T. 0.02 min

Lab File: VX011381.D

Acq: 08 Aug 2019 10:48

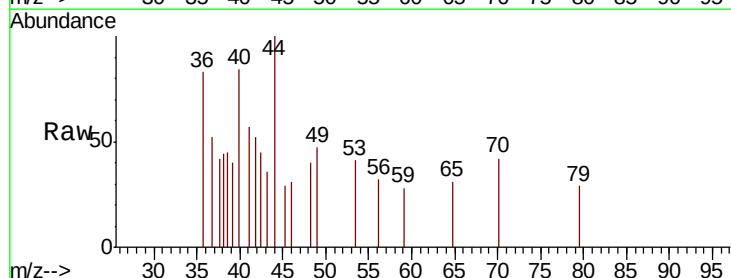
Tgt Ion: 42 Resp: 191

Ion Ratio Lower Upper

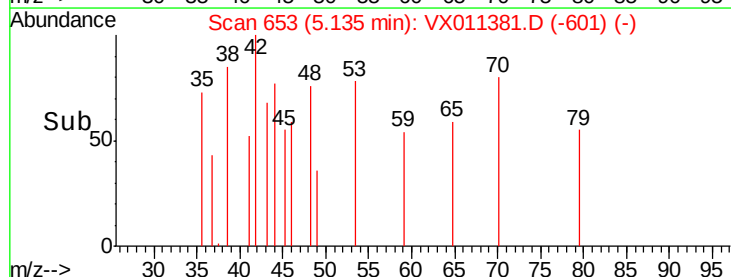
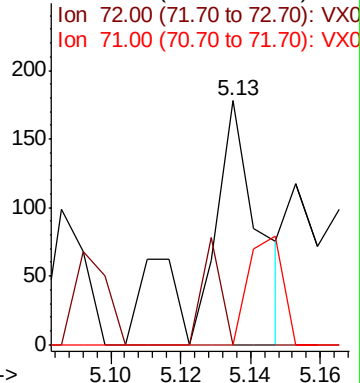
42 100

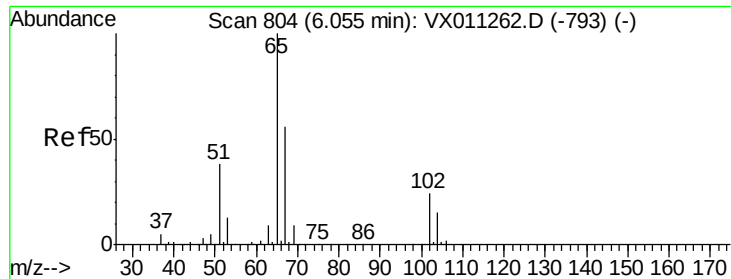
72 15.2 39.9 59.9#

71 28.8 36.9 55.3#



Abundance Ion 42.00 (41.70 to 42.70): VX0

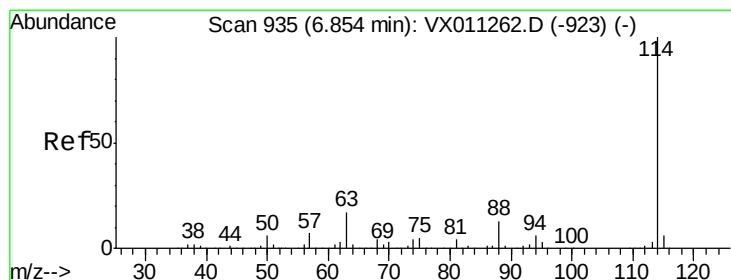
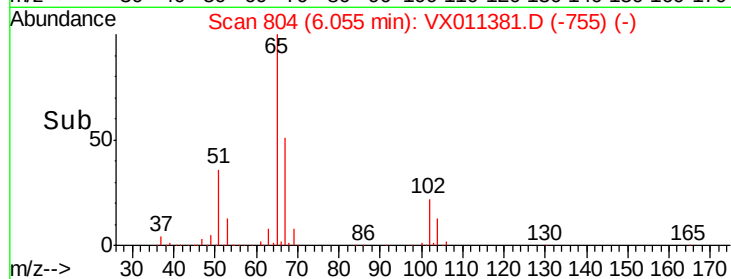
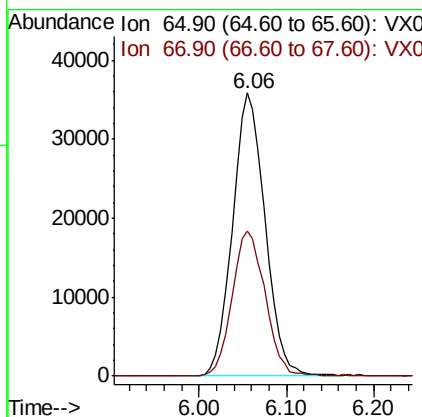
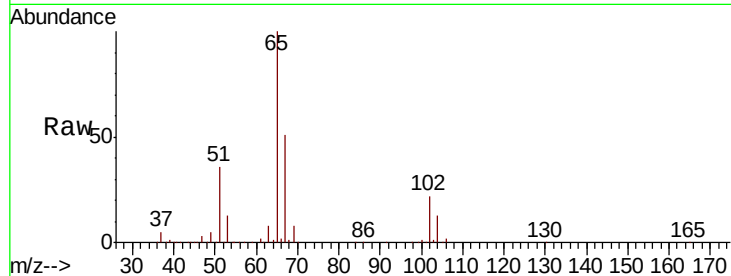




#33  
 1,2-Dichloroethane-d4  
 Concen: 57.742 ug/l  
 RT: 6.06 min Scan# 804  
 Delta R.T. 0.00 min  
 Lab File: VX011381.D  
 Acq: 08 Aug 2019 10:48

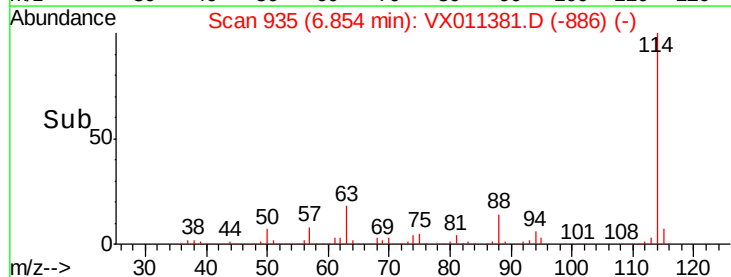
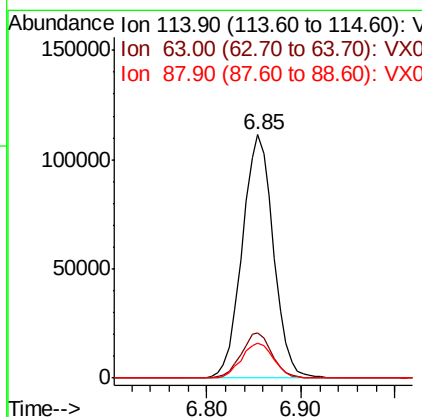
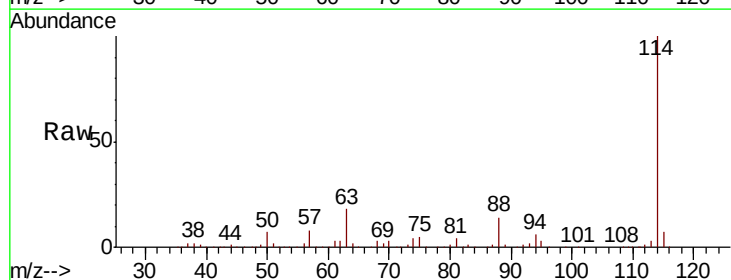
Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VX0808WBL01

Tgt Ion: 65 Resp: 92680  
 Ion Ratio Lower Upper  
 65 100  
 67 52.2 0.0 110.6

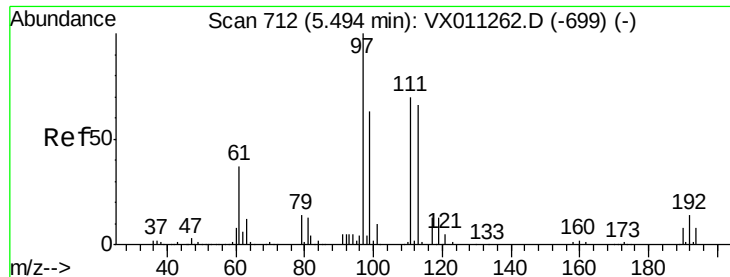


#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 6.85 min Scan# 935  
 Delta R.T. 0.00 min  
 Lab File: VX011381.D  
 Acq: 08 Aug 2019 10:48

Tgt Ion: 114 Resp: 258134  
 Ion Ratio Lower Upper  
 114 100  
 63 18.4 0.0 34.0  
 88 14.4 0.0 26.4



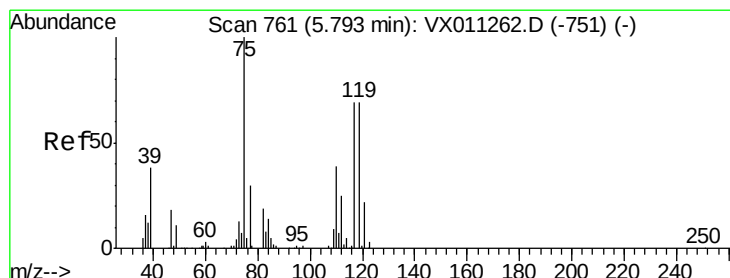
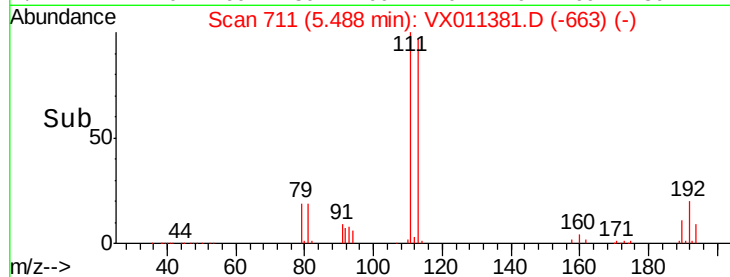
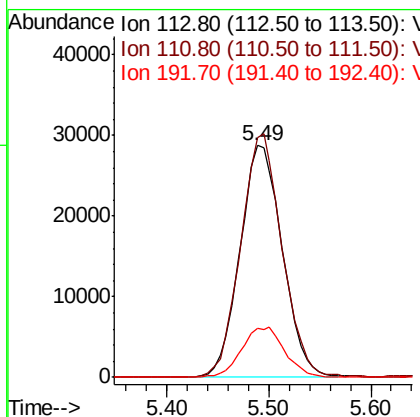
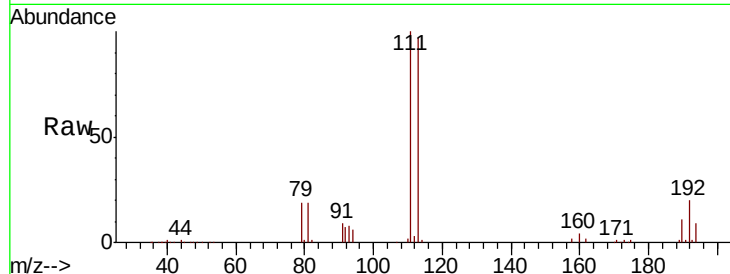




#35  
 Dibromofluoromethane  
 Concen: 49.286 ug/l  
 RT: 5.49 min Scan# 711  
 Delta R.T. -0.01 min  
 Lab File: VX011381.D  
 Acq: 08 Aug 2019 10:48

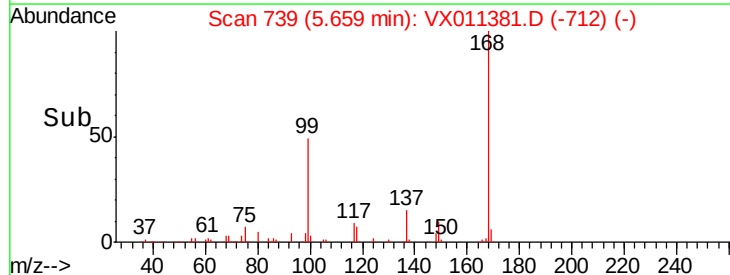
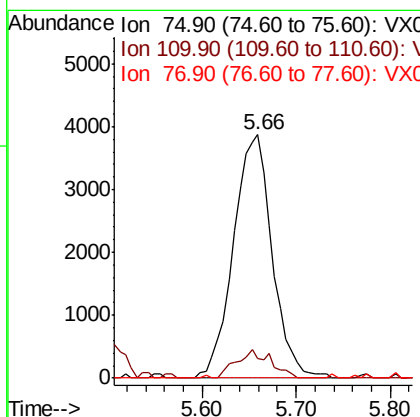
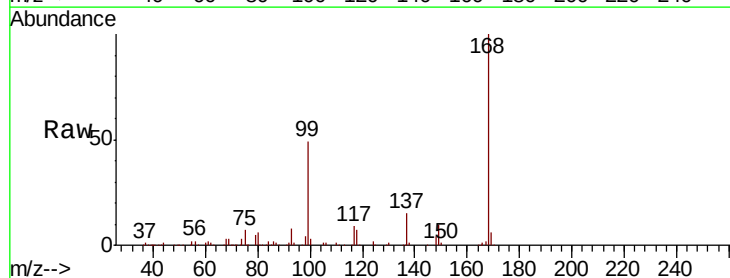
Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VX0808WBL01

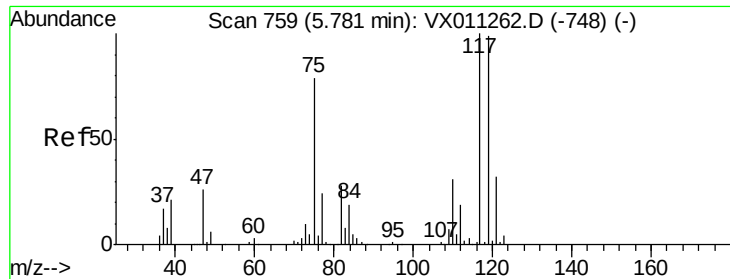
Tgt Ion:113 Resp: 83061  
 Ion Ratio Lower Upper  
 113 100  
 111 102.6 81.9 122.9  
 192 22.0 17.8 26.8



#36  
 1,1-Dichloropropene  
 Concen: 4.918 ug/l  
 RT: 5.66 min Scan# 739  
 Delta R.T. -0.13 min  
 Lab File: VX011381.D  
 Acq: 08 Aug 2019 10:48

Tgt Ion: 75 Resp: 11084  
 Ion Ratio Lower Upper  
 75 100  
 110 10.4 20.0 59.9#  
 77 0.0 24.8 37.2#

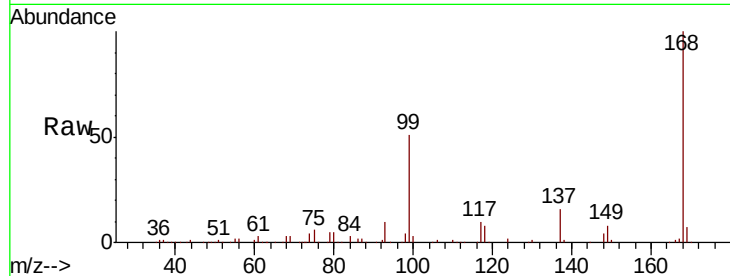




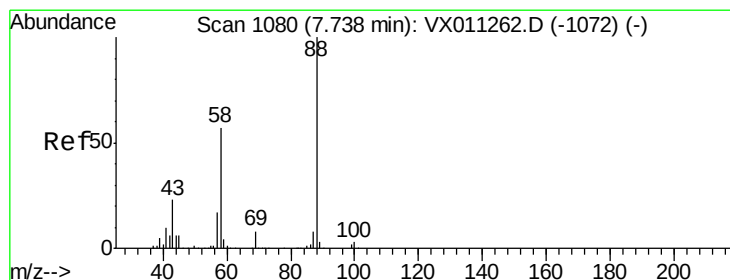
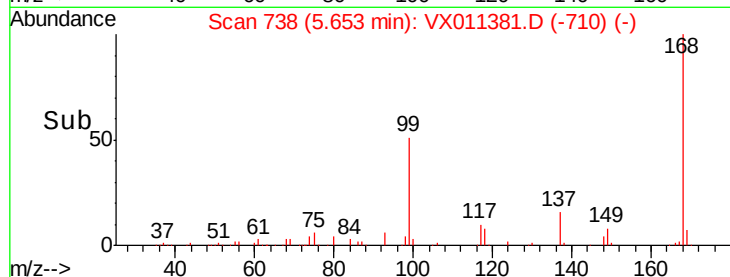
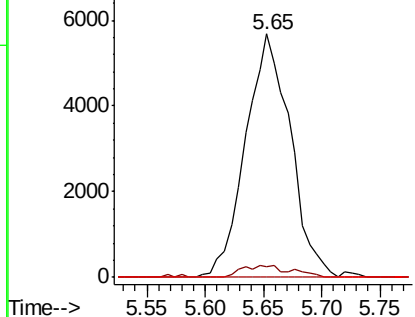
#38  
Carbon Tetrachloride  
Concen: 6.711 ug/l  
RT: 5.65 min Scan# 738  
Delta R.T. -0.13 min  
Lab File: VX011381.D  
Acq: 08 Aug 2019 10:48

Instrument :  
MSVOA\_X  
ClientSampleId :  
VX0808WBL01

Tgt Ion: 117 Resp: 15216  
Ion Ratio Lower Upper  
117 100  
119 4.6 79.0 118.4#  
121 0.0 25.9 38.9#

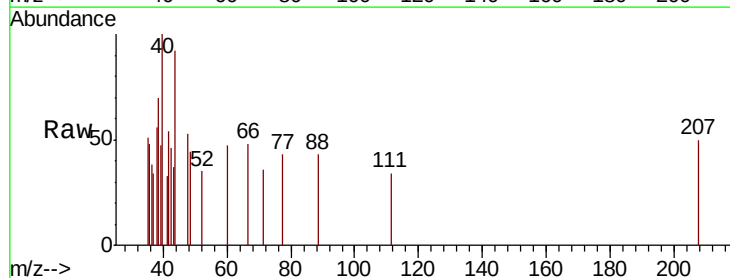


Abundance Ion 116.80 (116.50 to 117.50): V  
Ion 118.80 (118.50 to 119.50): V  
Ion 120.80 (120.50 to 121.50): V

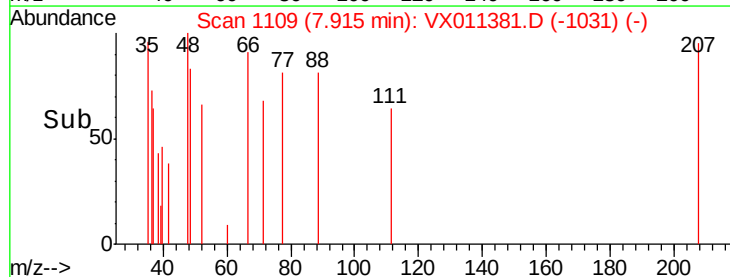
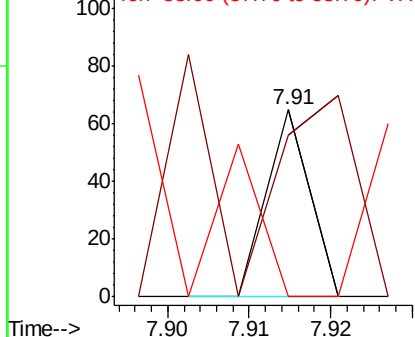


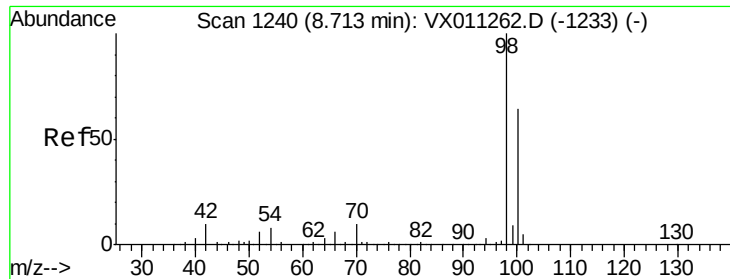
#49  
1,4-Dioxane  
Concen: 0.487 ug/l  
RT: 7.91 min Scan# 1109  
Delta R.T. 0.18 min  
Lab File: VX011381.D  
Acq: 08 Aug 2019 10:48

Tgt Ion: 88 Resp: 24  
Ion Ratio Lower Upper  
88 100  
43 129.2 22.2 33.2#  
58 200.0 47.8 71.8#



Abundance Ion 88.00 (87.70 to 88.70): VX0  
Ion 43.00 (42.70 to 43.70): VX0  
Ion 58.00 (57.70 to 58.70): VX0





#50

Toluene-d8

Concen: 49.340 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. 0.00 min

Lab File: VX011381.D

Acq: 08 Aug 2019 10:48

Instrument :

MSVOA\_X

ClientSampleId :

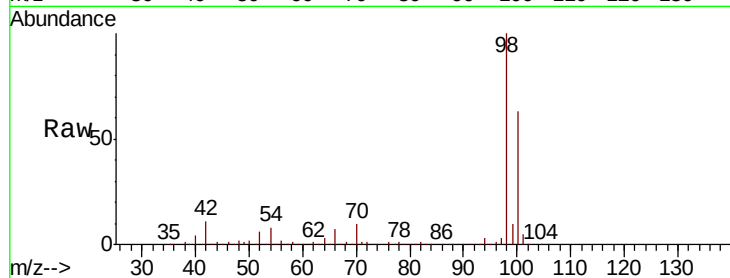
VX0808WBL01

Tgt Ion: 98 Resp: 313874

Ion Ratio Lower Upper

98 100

100 63.6 51.7 77.5



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX0

8.71

200000

150000

100000

50000

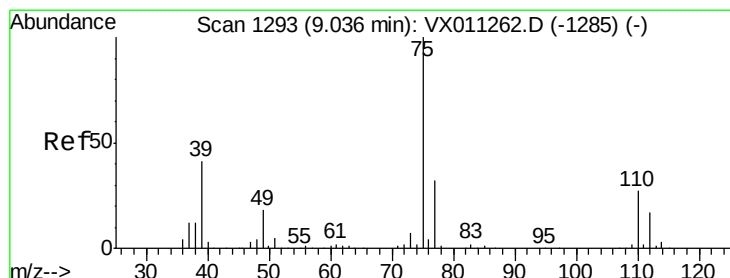
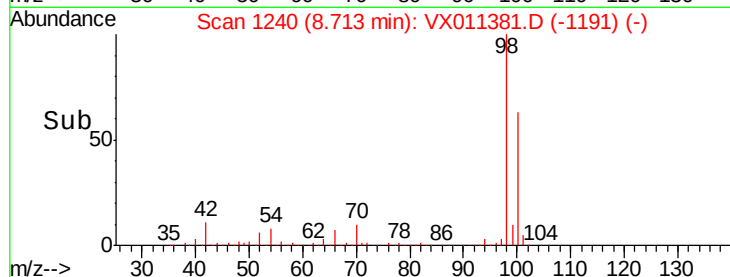
0

Time-->

8.60

8.70

8.80



#53

t-1,3-Dichloropropene

Concen: 2.849 ug/l

RT: 9.05 min Scan# 1296

Delta R.T. 0.02 min

Lab File: VX011381.D

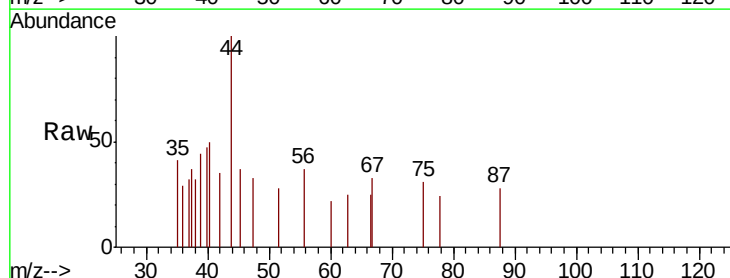
Acq: 08 Aug 2019 10:48

Tgt Ion: 75 Resp: 28

Ion Ratio Lower Upper

75 100

77 0.0 25.4 38.0#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 76.90 (76.60 to 77.60): VX0

9.05

80

60

40

20

0

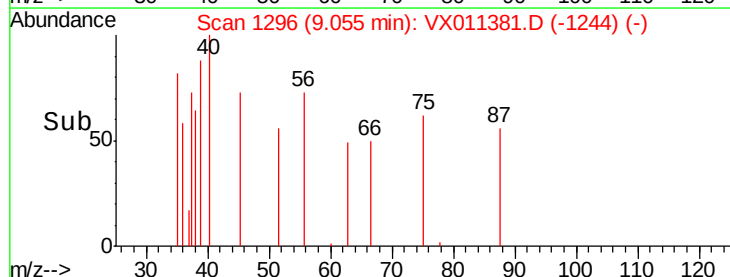
Time-->

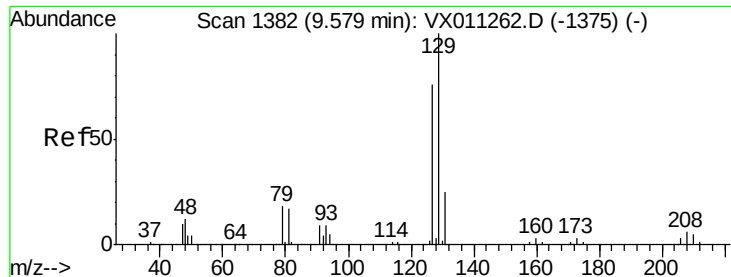
9.04

9.05

9.06

9.07





#60

Dibromochloromethane

Concen: 0.516 ug/l

RT: 9.33 min Scan# 1341

Delta R.T. -0.25 min

Lab File: VX011381.D

Acq: 08 Aug 2019 10:48

Instrument :

MSVOA\_X

ClientSampleId :

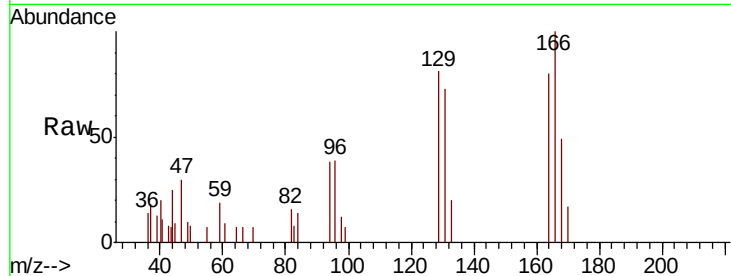
VX0808WBL01

Tgt Ion:129 Resp: 966

Ion Ratio Lower Upper

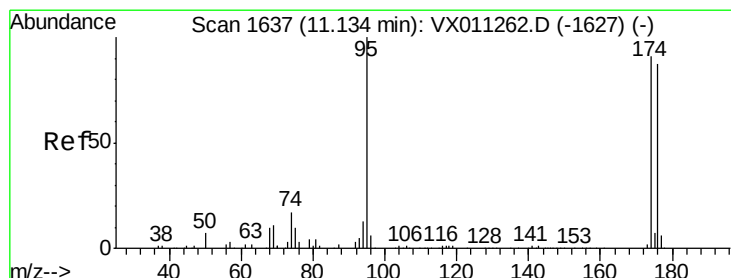
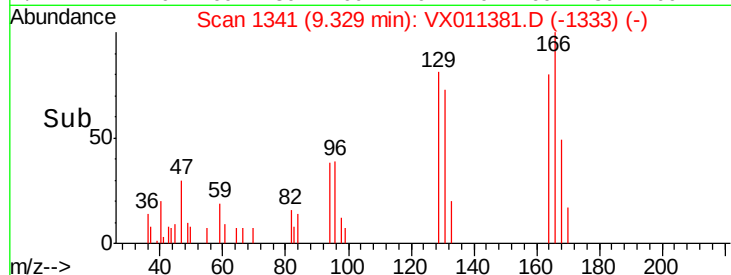
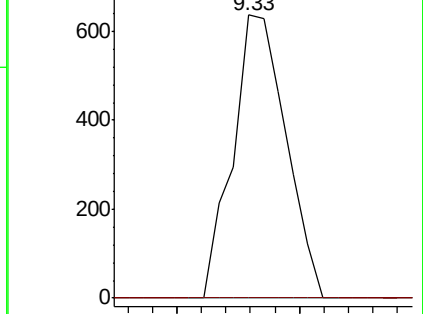
129 100

127 0.0 39.2 117.6#



Abundance Ion 128.80 (128.50 to 129.50): V

Ion 126.80 (126.50 to 127.50): V



#62

4-Bromofluorobenzene

Concen: 47.938 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.00 min

Lab File: VX011381.D

Acq: 08 Aug 2019 10:48

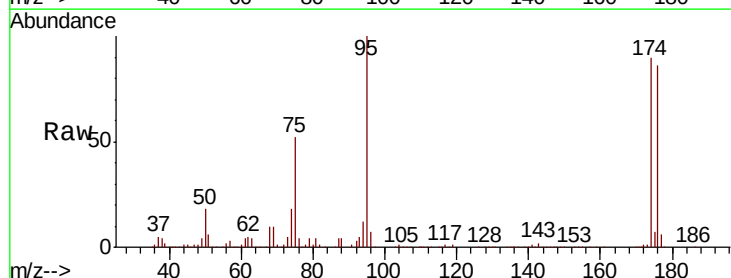
Tgt Ion: 95 Resp: 108878

Ion Ratio Lower Upper

95 100

174 92.0 0.0 191.2

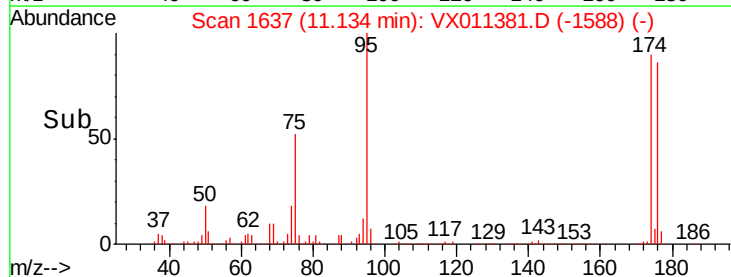
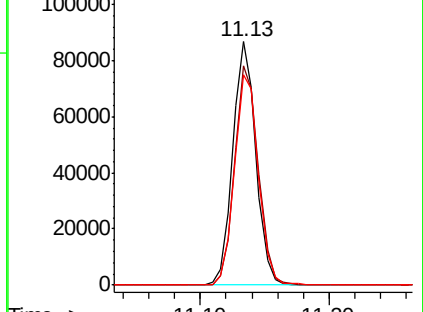
176 89.2 0.0 184.8

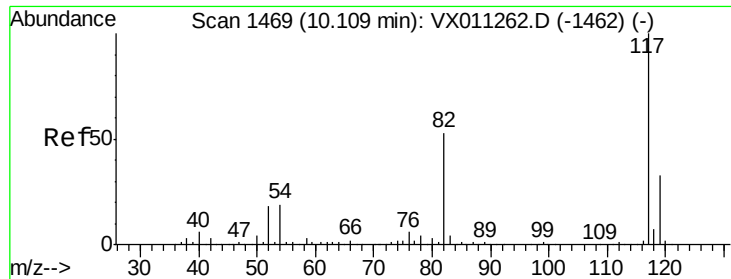


Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

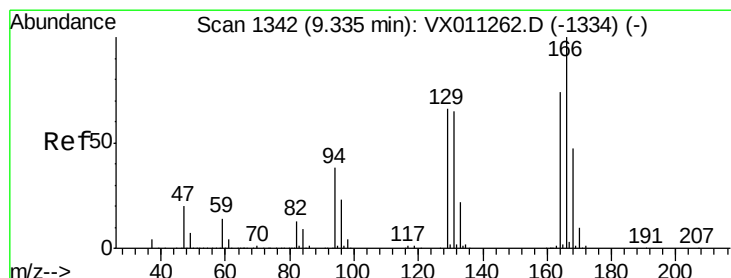
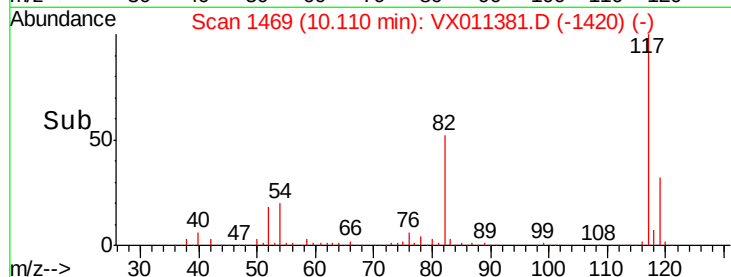
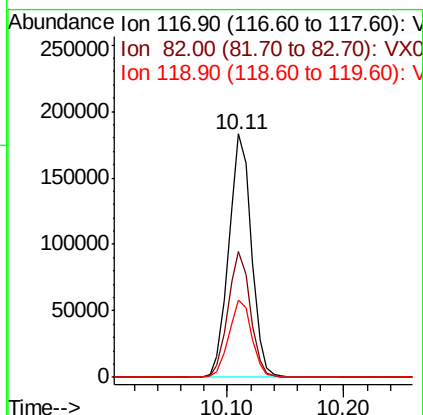
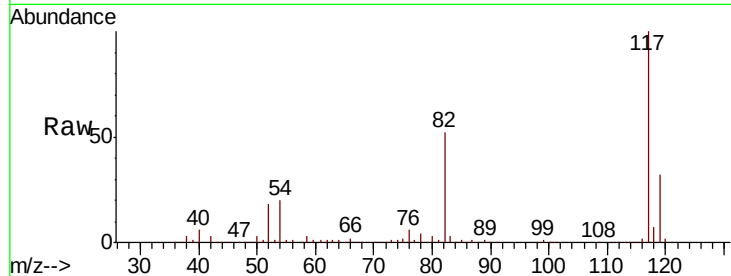




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 10.11 min Scan# 1469  
Delta R.T. 0.00 min  
Lab File: VX011381.D  
Acq: 08 Aug 2019 10:48

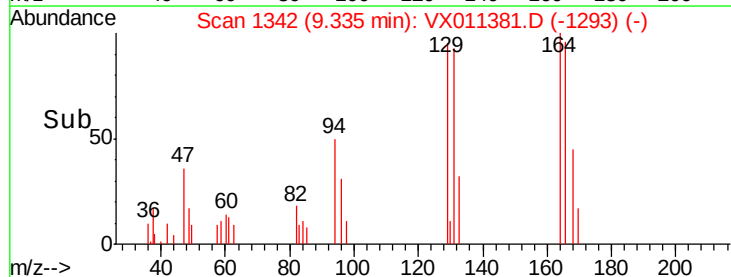
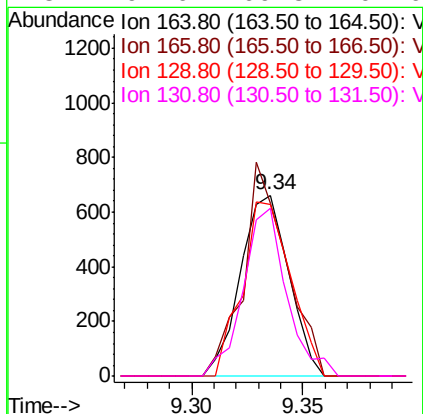
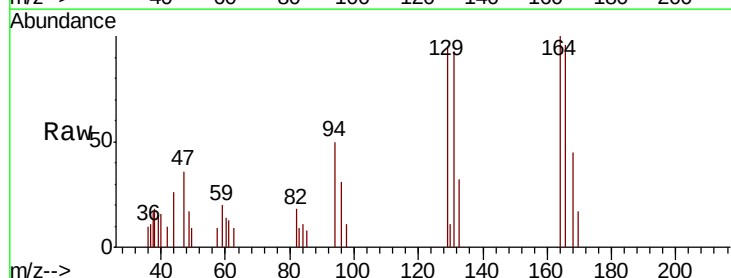
Instrument :  
MSVOA\_X  
ClientSampled :  
VX0808WBL01

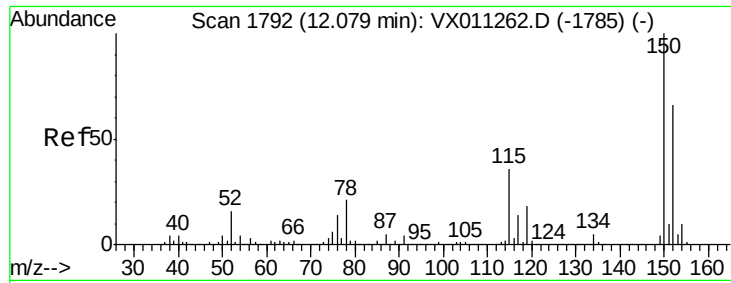
Tgt Ion:117 Resp: 247387  
Ion Ratio Lower Upper  
117 100  
82 51.8 42.2 63.2  
119 31.7 26.6 39.8



#64  
Tetrachloroethene  
Concen: 0.477 ug/l  
RT: 9.34 min Scan# 1342  
Delta R.T. 0.00 min  
Lab File: VX011381.D  
Acq: 08 Aug 2019 10:48

Tgt Ion:164 Resp: 1003  
Ion Ratio Lower Upper  
164 100  
166 96.1 107.5 161.3#  
129 95.0 71.0 106.4  
131 92.6 69.8 104.6





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.08 min Scan# 1792

Delta R.T. 0.00 min

Lab File: VX011381.D

Acq: 08 Aug 2019 10:48

Instrument :

MSVOA\_X

ClientSampleId :

VX0808WBL01

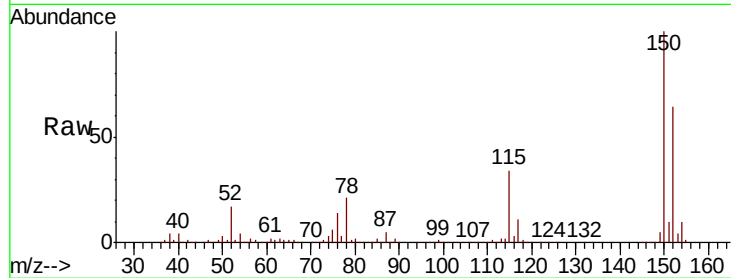
Tgt Ion:152 Resp: 113495

Ion Ratio Lower Upper

152 100

115 55.3 40.0 119.9

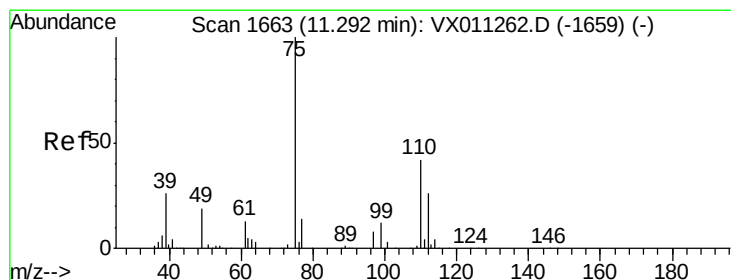
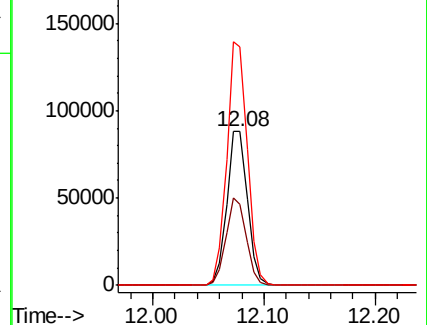
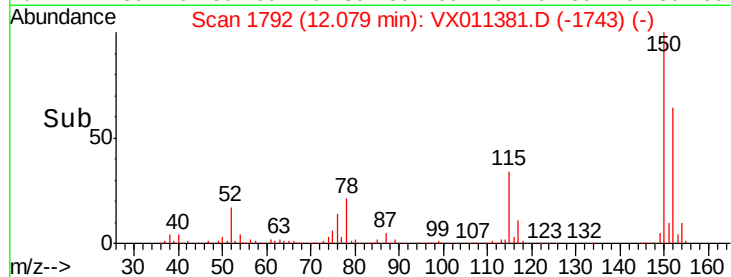
150 156.3 0.0 350.4



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: 27.327 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX011381.D

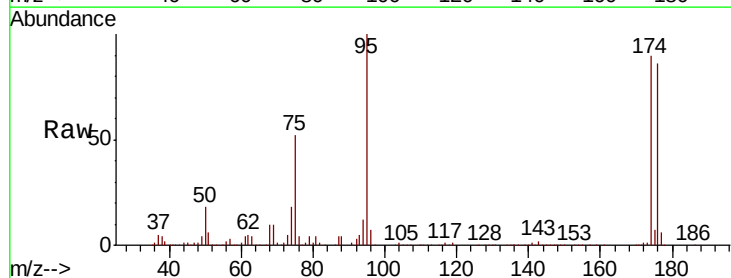
Acq: 08 Aug 2019 10:48

Tgt Ion: 75 Resp: 56482

Ion Ratio Lower Upper

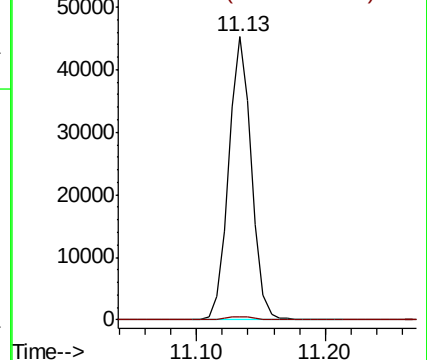
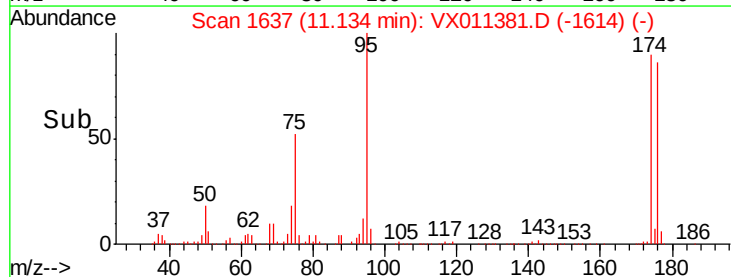
75 100

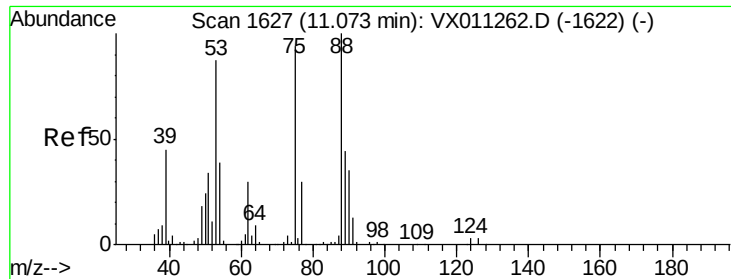
77 1.3 21.1 63.4#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0





#81

trans-1,4-Dichloro-2-butene

Concen: 70.891 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX011381.D

Acq: 08 Aug 2019 10:48

Instrument :

MSVOA\_X

ClientSampleId :

VX0808WBL01

Tgt Ion: 75 Resp: 56482

Ion Ratio Lower Upper

75 100

53 0.3 78.2 117.4#

89 0.0 37.9 56.9#

