

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX082720\  
 Data File : VX018090.D  
 Acq On : 27 Aug 2020 14:43  
 Operator : JC/SP  
 Sample : VX0827WBL01  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 4 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VX0827WBL01

Quant Time: Aug 28 03:02:23 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X082120W.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Aug 21 03:03:56 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.63  | 168  | 453031   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.84  | 114  | 730004   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.10 | 117  | 692351   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.06 | 152  | 326983   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units   | Dev(Min) |
|-----------------------------|-------|------|----------|-------|---------|----------|
| 33) 1,2-Dichloroethane-d4   | 6.03  | 65   | 347547   | 55.26 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 110.52% |          |
| 35) Dibromofluoromethane    | 5.46  | 113  | 275896   | 55.49 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 110.98% |          |
| 50) Toluene-d8              | 8.70  | 98   | 950250   | 51.32 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 102.64% |          |
| 62) 4-Bromofluorobenzene    | 11.12 | 95   | 347544   | 47.70 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 95.40%  |          |

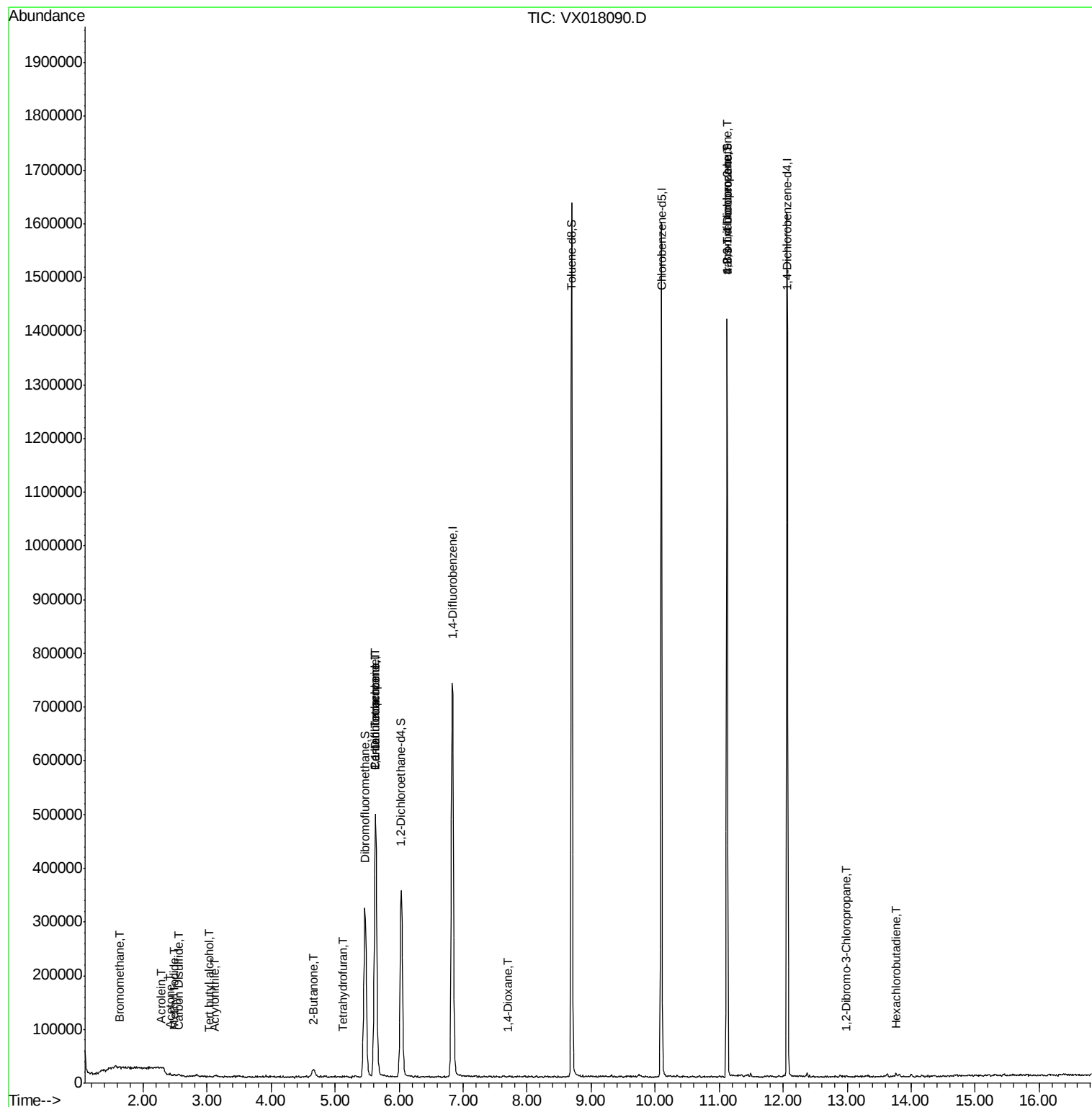
| Target Compounds               | R.T.  | QIon | Response | Conc      | Units  | Qvalue |
|--------------------------------|-------|------|----------|-----------|--------|--------|
| 5) Bromomethane                | 1.64  | 94   | 750      | 0.269     | ug/l # | 32     |
| 10) Methyl Iodide              | 2.48  | 142  | 1484     | 5.577     | ug/l # | 97     |
| 11) Tert butyl alcohol         | 3.02  | 59   | 257      | 0.210     | ug/l # | 71     |
| 13) Acrolein                   | 2.28  | 56   | 599      | 1.181     | ug/l # | 69     |
| 15) Acrylonitrile              | 3.11  | 53   | 1034     | 0.373     | ug/l # | 73     |
| 16) Acetone                    | 2.42  | 43   | 998      | 0.407     | ug/l # | 78     |
| 17) Carbon Disulfide           | 2.55  | 76   | 3389     | 0.253     | ug/l # | 87     |
| 20) Methylene Chloride         | 2.84  | 84   | 2528     | Below Cal | #      | 74     |
| 25) 2-Butanone                 | 4.67  | 43   | 1514     | 0.376     | ug/l # | 51     |
| 29) Tetrahydrofuran            | 5.11  | 42   | 749      | 0.292     | ug/l # | 65     |
| 36) 1,1-Dichloropropene        | 5.63  | 75   | 36025    | 5.350     | ug/l # | 52     |
| 38) Carbon Tetrachloride       | 5.63  | 117  | 47150    | 6.214     | ug/l # | 16     |
| 49) 1,4-Dioxane                | 7.70  | 88   | 133      | 1.168     | ug/l # | 1      |
| 76) 1,2,3-Trichloropropane     | 11.12 | 75   | 183182   | 25.184    | ug/l # | 36     |
| 81) trans-1,4-Dichloro-2-buten | 11.12 | 75   | 183182   | 68.017    | ug/l # | 12     |
| 92) 1,2-Dibromo-3-Chloropropan | 12.98 | 75   | 382      | 0.201     | ug/l # | 64     |
| 94) Hexachlorobutadiene        | 13.76 | 225  | 739      | 0.285     | ug/l   | 84     |

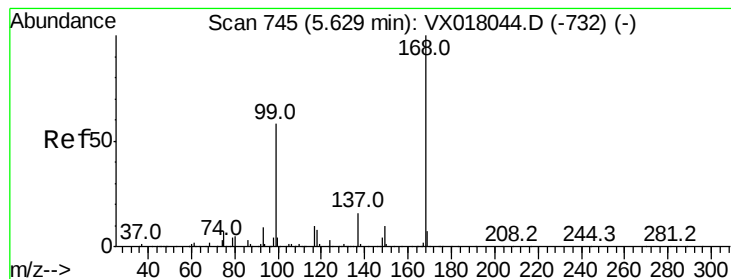
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA X\DATA\VX082720\  
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Sample : VX0827WBL01  
Misc : 5.0mL/MSVOA X/WATER  
ALS Vial : 4 Sample Multiplier: 1

Instrument :  
MSVOA\_X  
ClientSampleId :  
VX0827WBL01

Quant Time: Aug 28 03:02:23 2020  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_X\METHOD\82X082120W.M  
Quant Title : SW846 8260  
QLast Update : Fri Aug 21 03:03:56 2020  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.63 min Scan# 745

Delta R.T. -0.00 min

Lab File: VX018090.D

Acq: 27 Aug 2020 14:43

Instrument :

MSVOA\_X

ClientSampleId :

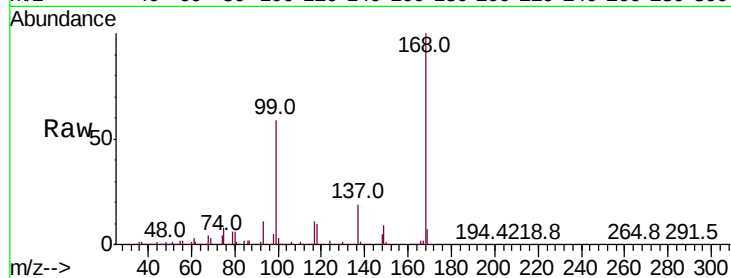
VX0827WBL01

Tot Ion:168 Resp: 453031

Ion Ratio Lower Upper

168 100

99 59.1 46.3 69.5



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.63

150000

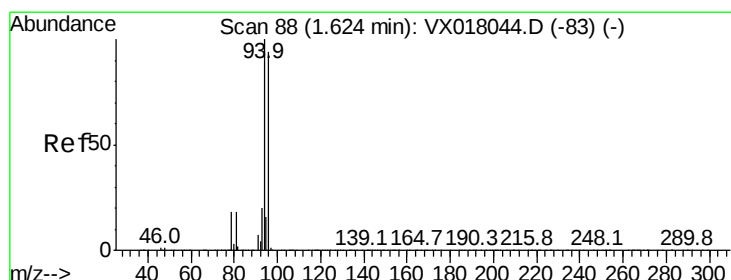
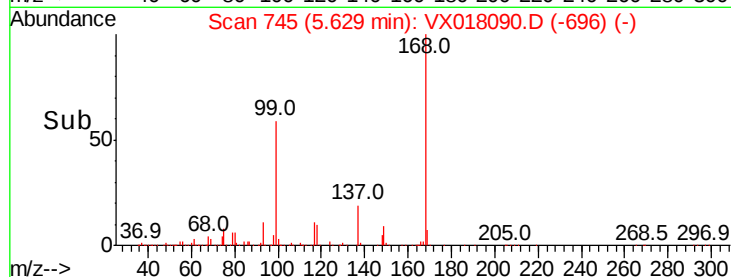
100000

50000

0

Time-->

5.50 5.60 5.70 5.80



#5

Bromomethane

Concen: 0.269 ug/l

RT: 1.64 min Scan# 90

Delta R.T. 0.01 min

Lab File: VX018090.D

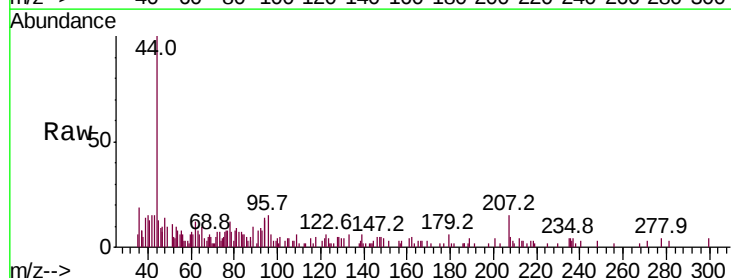
Acq: 27 Aug 2020 14:43

Tgt Ion: 94 Resp: 750

Ion Ratio Lower Upper

94 100

96 28.4 74.8 112.2#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1.64

1000

800

600

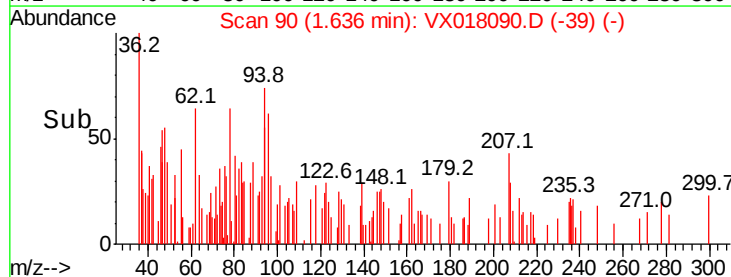
400

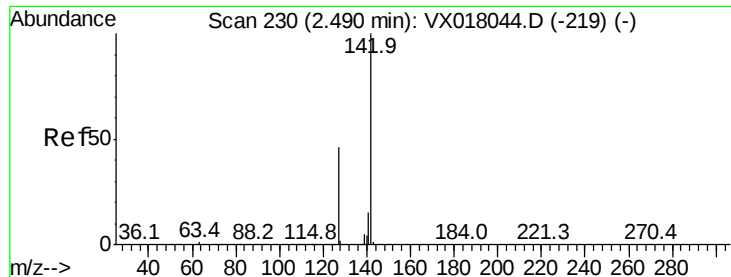
200

0

Time-->

1.60 1.62 1.64 1.66





#10

Methvl Iodide

Concen: 5.577 ug/l

RT: 2.48 min Scan# 229

Delta R.T. -0.01 min

Lab File: VX018090.D

Acq: 27 Aug 2020 14:43

Instrument :

MSVOA\_X

ClientSampleId :

VX0827WBL01

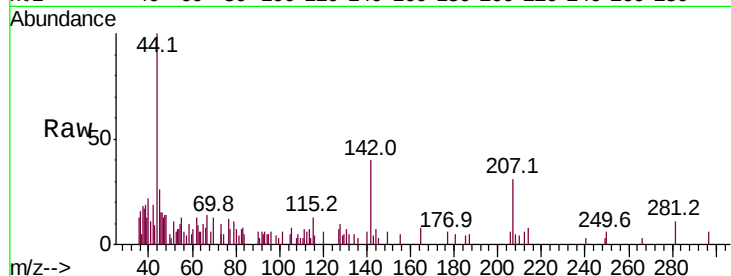
Tot Ion:142 Resp: 1484

Ion Ratio Lower Upper

142 100

127 45.4 37.0 55.6

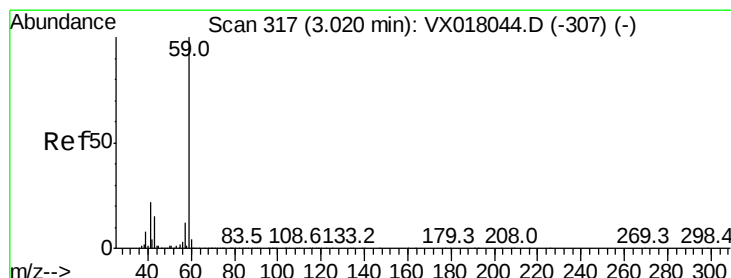
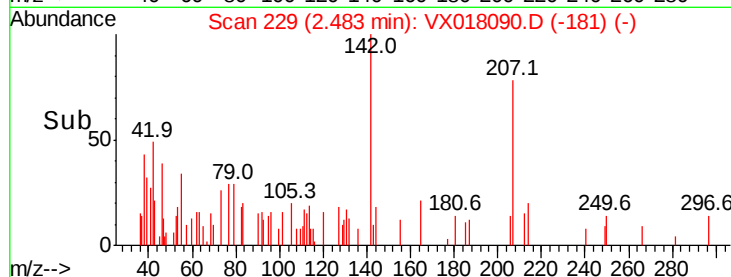
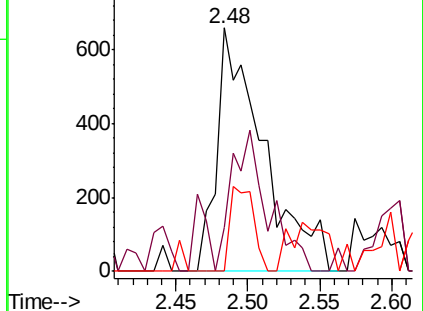
141 17.8 11.5 17.3#



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: 0.210 ug/l

RT: 3.02 min Scan# 317

Delta R.T. -0.00 min

Lab File: VX018090.D

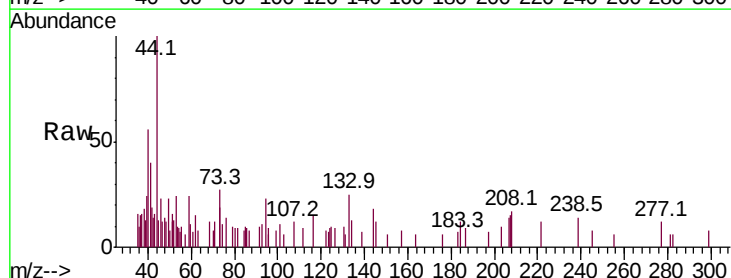
Acq: 27 Aug 2020 14:43

Tgt Ion: 59 Resp: 257

Ion Ratio Lower Upper

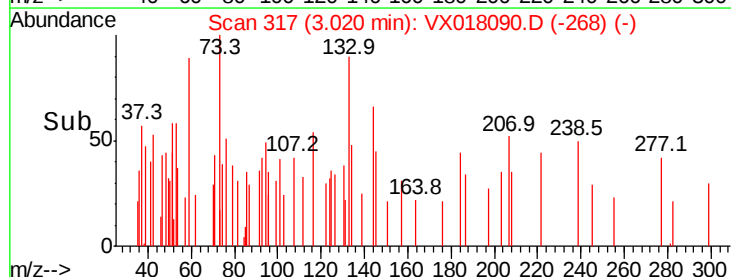
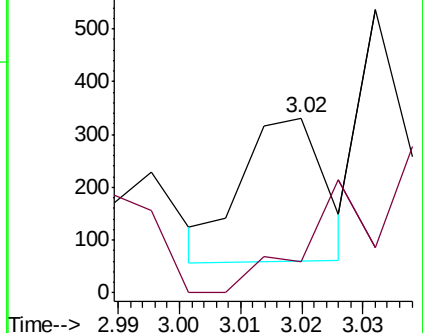
59 100

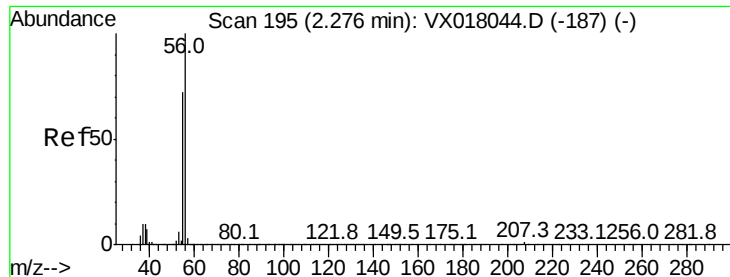
57 0.0 8.9 13.3#



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0





#13

Acrolein

Concen: 1.181 ug/l

RT: 2.28 min Scan# 195

Delta R.T. -0.00 min

Lab File: VX018090.D

Acq: 27 Aug 2020 14:43

Instrument :

MSVOA\_X

ClientSampleId :

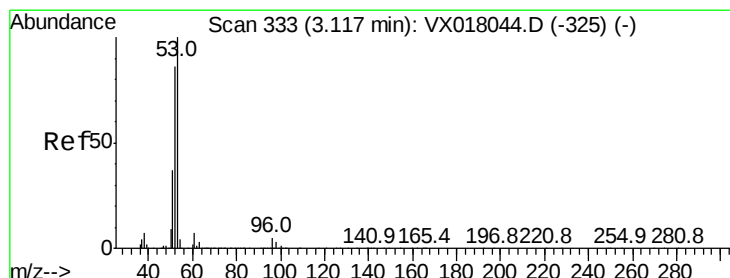
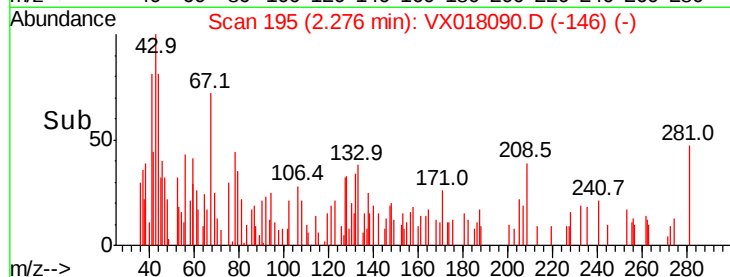
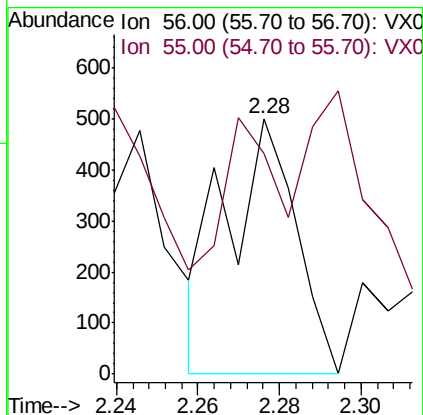
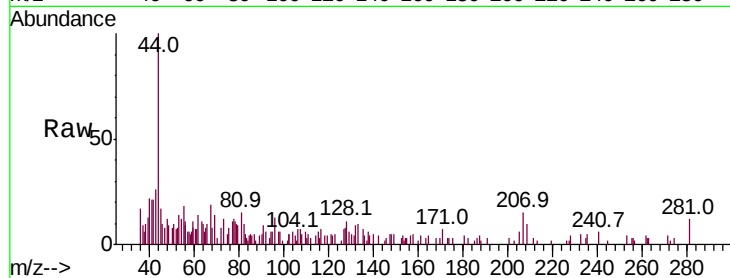
VX0827WBL01

Tot Ion: 56 Resp: 599

Ion Ratio Lower Upper

56 100

55 45.4 57.0 85.6#



#15

Acrylonitrile

Concen: 0.373 ug/l

RT: 3.11 min Scan# 332

Delta R.T. -0.01 min

Lab File: VX018090.D

Acq: 27 Aug 2020 14:43

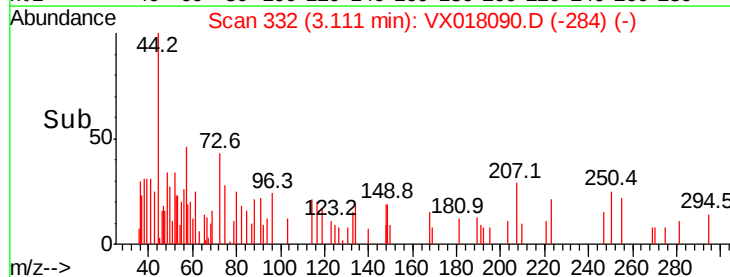
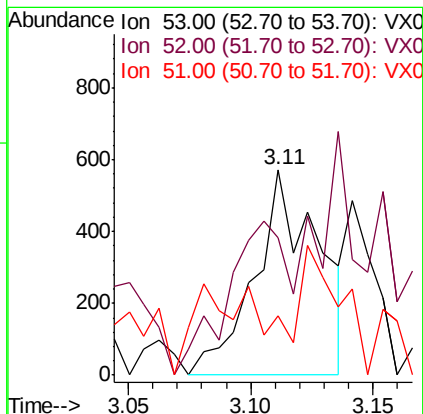
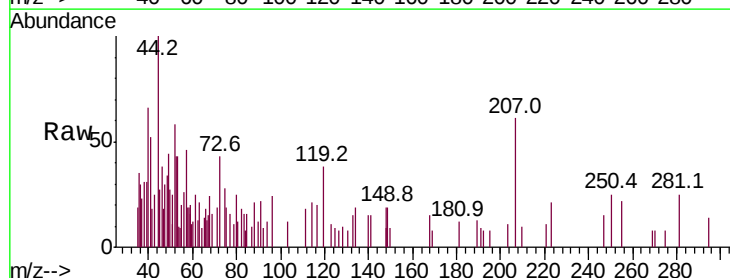
Tgt Ion: 53 Resp: 1034

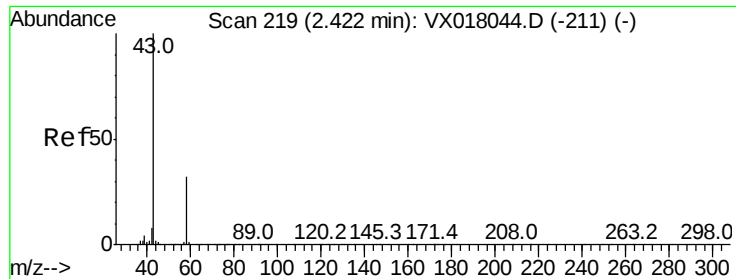
Ion Ratio Lower Upper

53 100

52 72.1 66.9 100.3

51 0.0 28.7 43.1#





#16

Acetone

Concen: 0.407 ug/l

RT: 2.42 min Scan# 218

Delta R.T. -0.01 min

Lab File: VX018090.D

Acq: 27 Aug 2020 14:43

Instrument :

MSVOA\_X

ClientSampled :

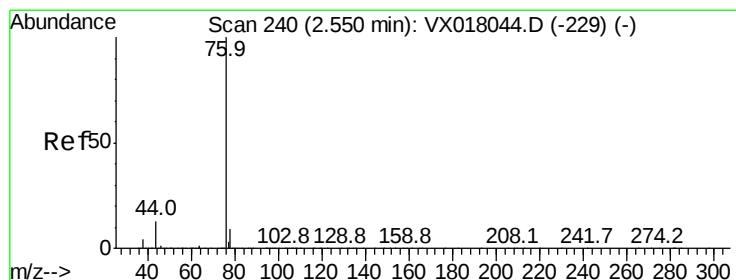
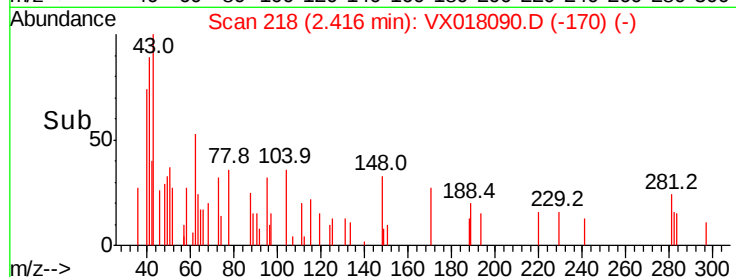
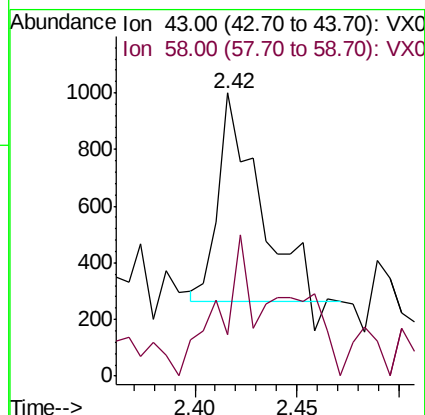
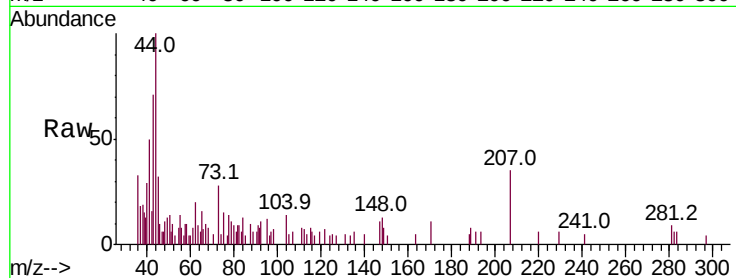
VX0827WBL01

Tot Ion: 43 Resp: 998

Ion Ratio Lower Upper

43 100

58 19.9 25.5 38.3#



#17

Carbon Disulfide

Concen: 0.253 ug/l

RT: 2.55 min Scan# 240

Delta R.T. -0.00 min

Lab File: VX018090.D

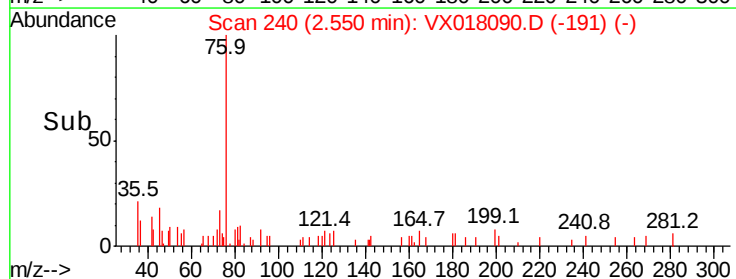
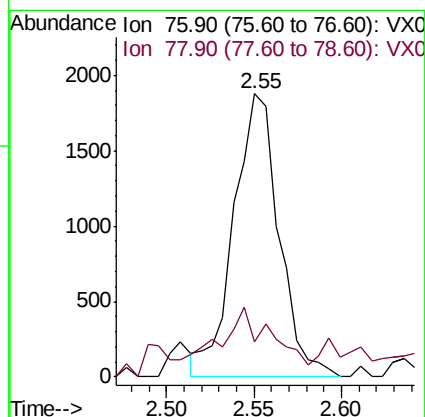
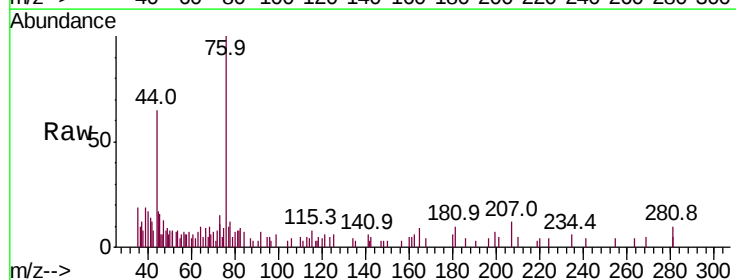
Acq: 27 Aug 2020 14:43

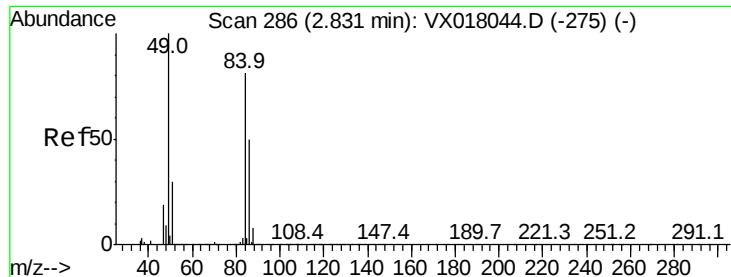
Tgt Ion: 76 Resp: 3389

Ion Ratio Lower Upper

76 100

78 4.4 7.4 11.0#

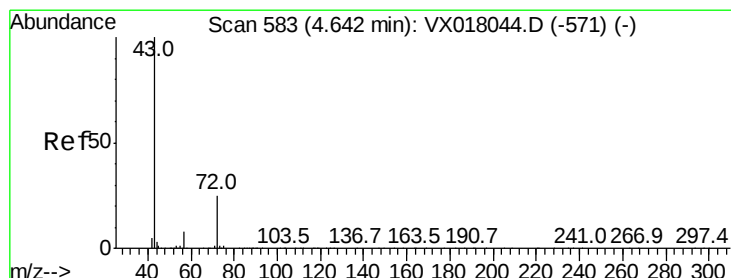
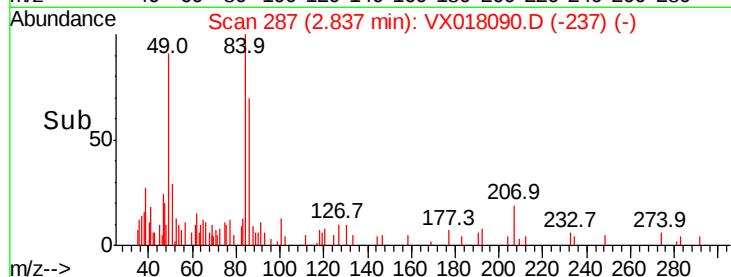
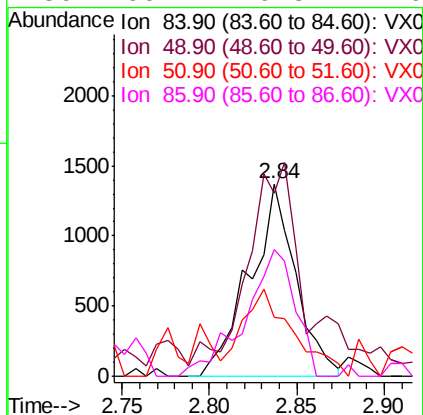
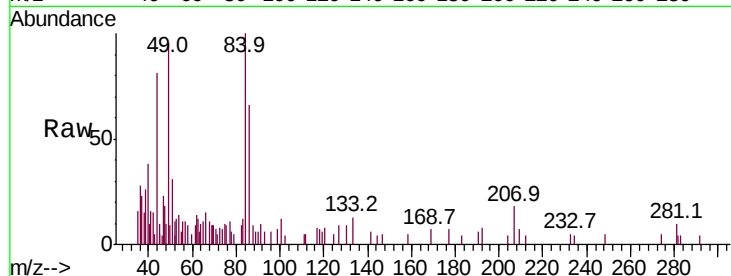




#20  
Methvlene Chloride  
Concen: Below Cal  
RT: 2.84 min Scan# 287  
Delta R.T. 0.01 min  
Lab File: VX018090.D  
Acq: 27 Aug 2020 14:43

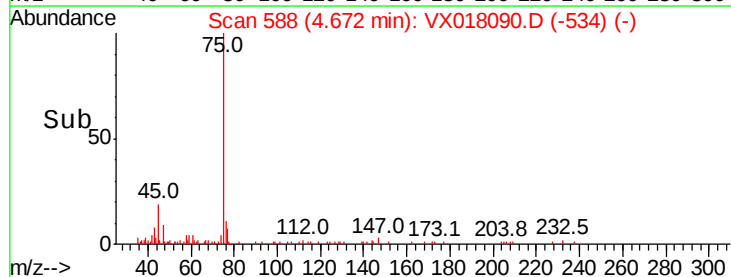
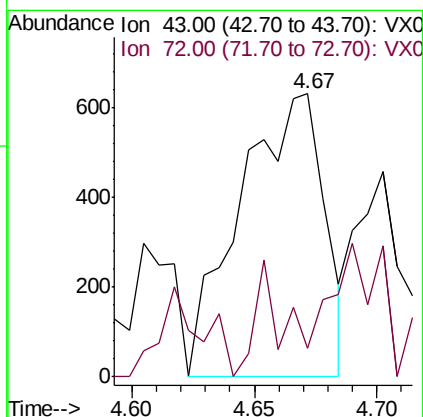
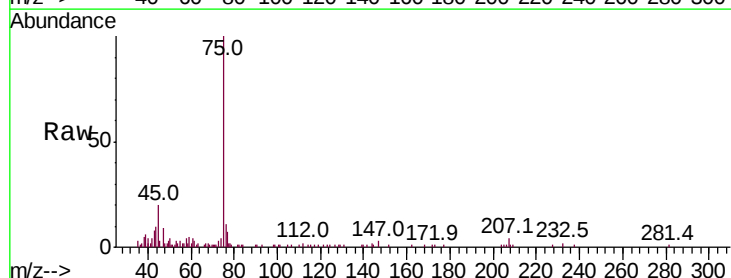
Instrument :  
MSVOA\_X  
ClientSampleId :  
VX0827WBL01

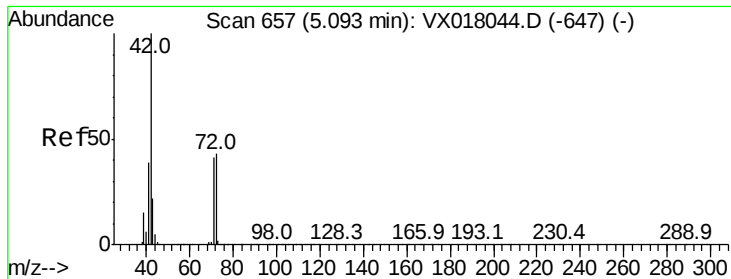
|          |       |       |        |
|----------|-------|-------|--------|
| Tot Ion: | 84    | Resp: | 2528   |
| Ion      | Ratio | Lower | Upper  |
| 84       | 100   |       |        |
| 49       | 80.6  | 98.6  | 148.0# |
| 51       | 24.3  | 29.6  | 44.4#  |
| 86       | 66.1  | 49.8  | 74.6   |



#25  
2-Butanone  
Concen: 0.376 ug/l  
RT: 4.67 min Scan# 588  
Delta R.T. 0.03 min  
Lab File: VX018090.D  
Acq: 27 Aug 2020 14:43

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 43    | Resp: | 1514  |
| Ion      | Ratio | Lower | Upper |
| 43       | 100   |       |       |
| 72       | 0.0   | 19.8  | 29.6# |





#29

Tetrahydrofuran

Concen: 0.292 ug/l

RT: 5.11 min Scan# 660

Delta R.T. 0.02 min

Lab File: VX018090.D

Acq: 27 Aug 2020 14:43

Instrument :

MSVOA\_X

ClientSampled :

VX0827WBL01

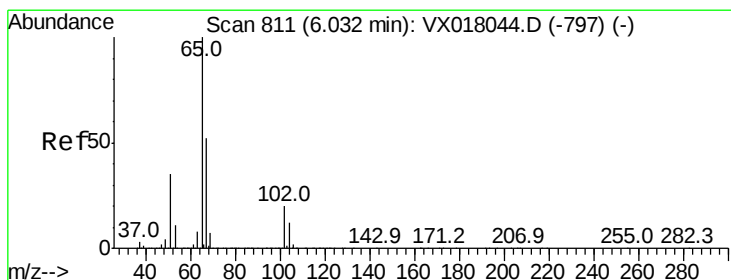
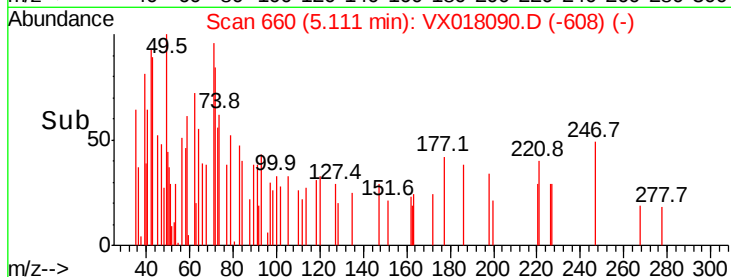
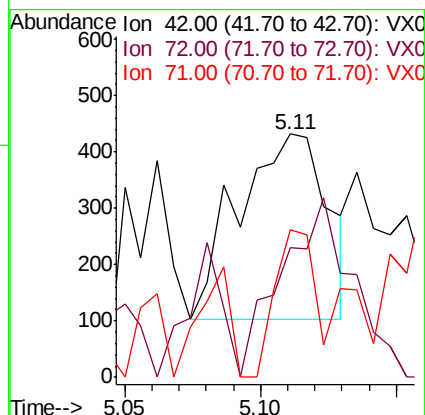
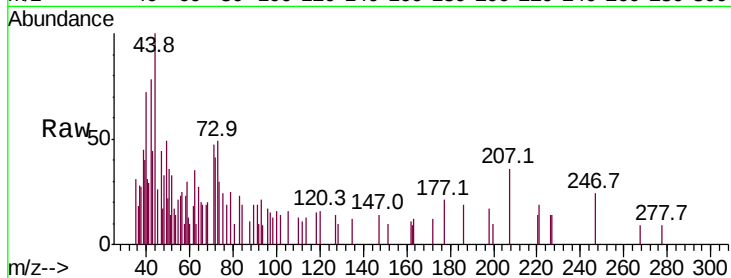
Tot Ion: 42 Resp: 749

Ion Ratio Lower Upper

42 100

72 76.4 34.2 51.4#

71 50.7 32.1 48.1#



#33

1,2-Dichloroethane-d4

Concen: 55.261 ug/l

RT: 6.03 min Scan# 811

Delta R.T. -0.00 min

Lab File: VX018090.D

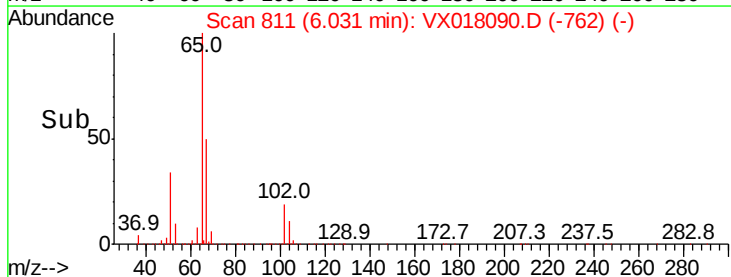
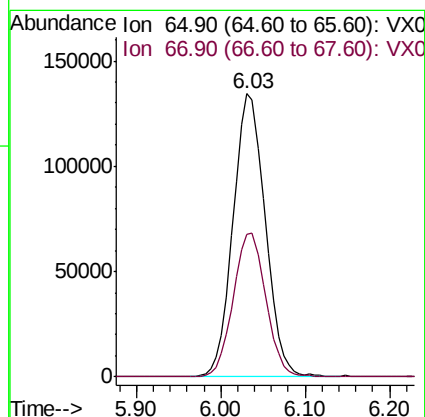
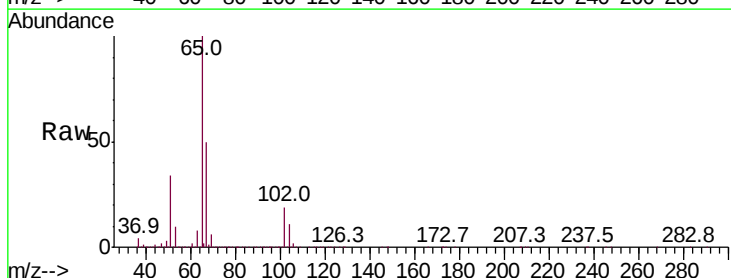
Acq: 27 Aug 2020 14:43

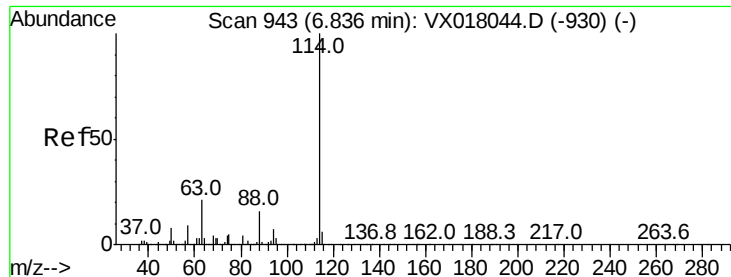
Tgt Ion: 65 Resp: 347547

Ion Ratio Lower Upper

65 100

67 51.6 0.0 105.8





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.84 min Scan# 943

Delta R.T. -0.00 min

Lab File: VX018090.D

Acq: 27 Aug 2020 14:43

Instrument :

MSVOA\_X

ClientSampleId :

VX0827WBL01

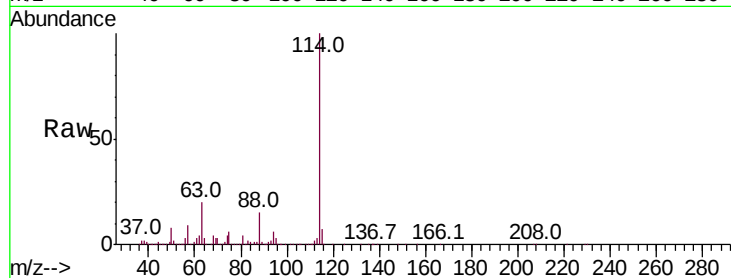
Tot Ion:114 Resp: 730004

Ion Ratio Lower Upper

114 100

63 19.9 0.0 42.6

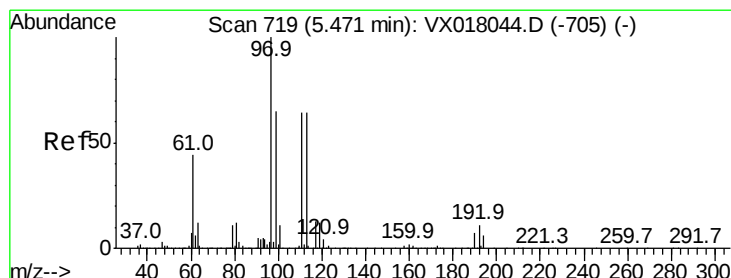
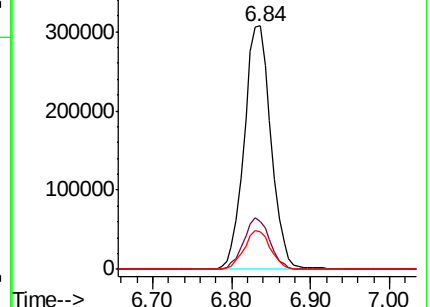
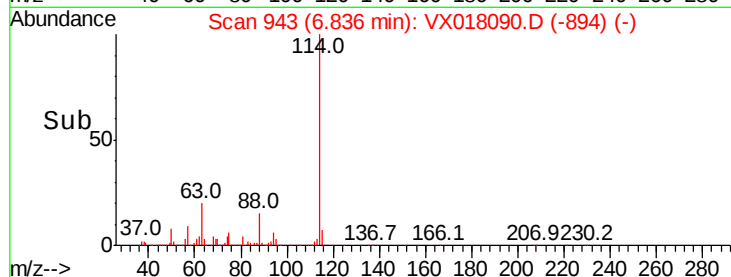
88 15.3 0.0 31.8



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0



#35

Dibromofluoromethane

Concen: 55.493 ug/l

RT: 5.46 min Scan# 718

Delta R.T. -0.01 min

Lab File: VX018090.D

Acq: 27 Aug 2020 14:43

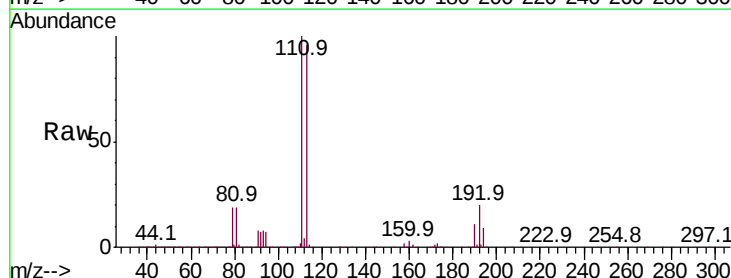
Tgt Ion:113 Resp: 275896

Ion Ratio Lower Upper

113 100

111 102.2 81.6 122.4

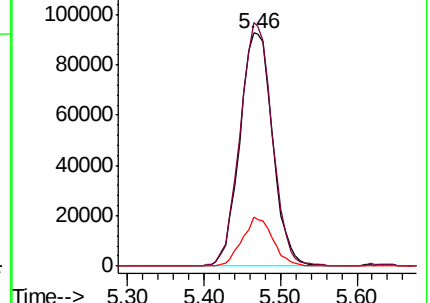
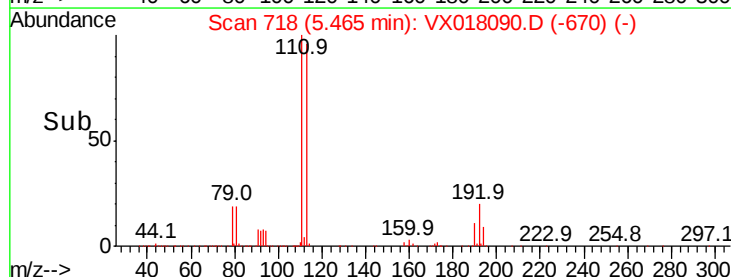
192 19.8 15.8 23.8

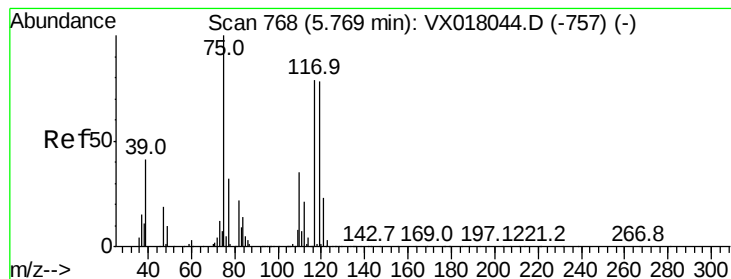


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 5.350 ug/l

RT: 5.63 min Scan# 745

Delta R.T. -0.14 min

Lab File: VX018090.D

Acq: 27 Aug 2020 14:43

Instrument :

MSVOA\_X

ClientSampleId :

VX0827WBL01

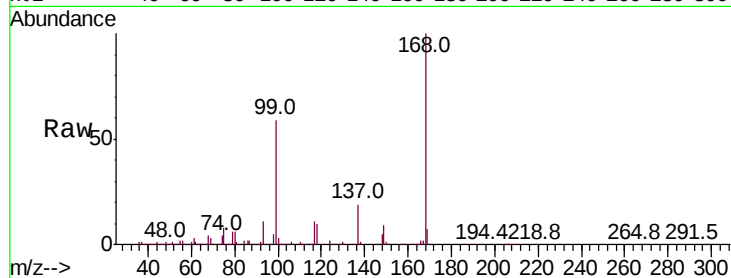
Tot Ion: 75 Resp: 36025

Ion Ratio Lower Upper

75 100

110 10.5 18.0 54.0#

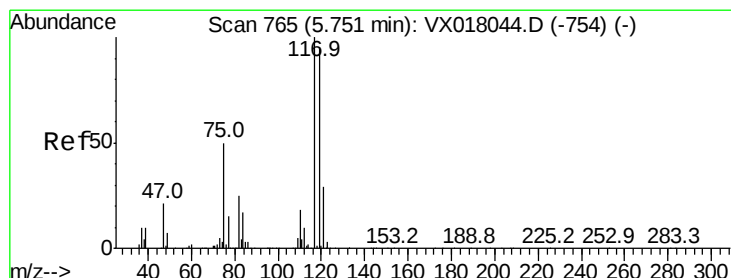
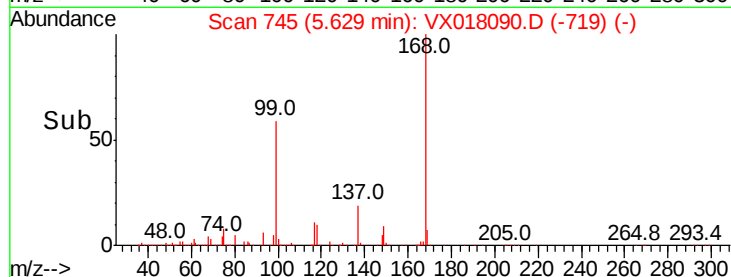
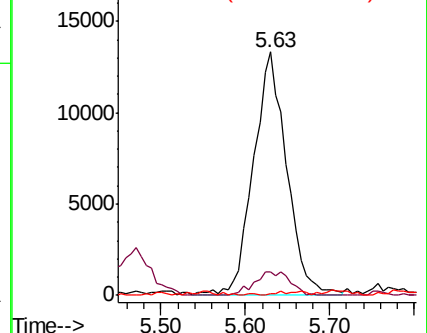
77 0.7 24.4 36.6#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0



#38

Carbon Tetrachloride

Concen: 6.214 ug/l

RT: 5.63 min Scan# 745

Delta R.T. -0.12 min

Lab File: VX018090.D

Acq: 27 Aug 2020 14:43

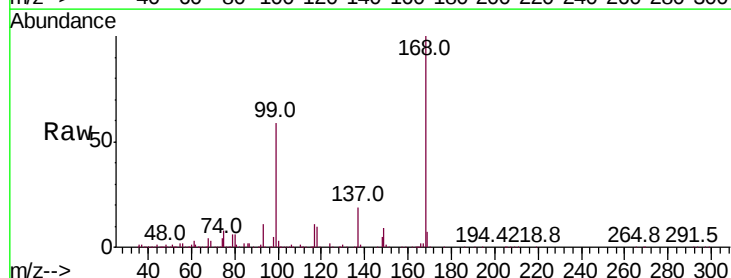
Tgt Ion: 117 Resp: 47150

Ion Ratio Lower Upper

117 100

119 4.4 75.8 113.6#

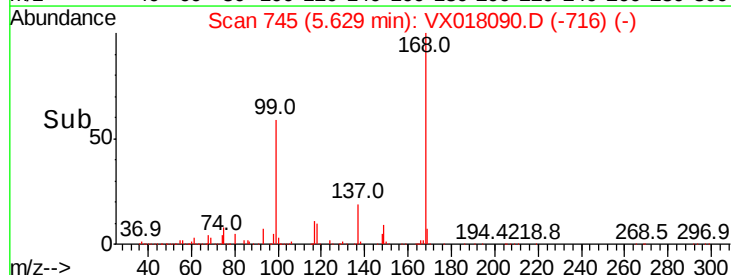
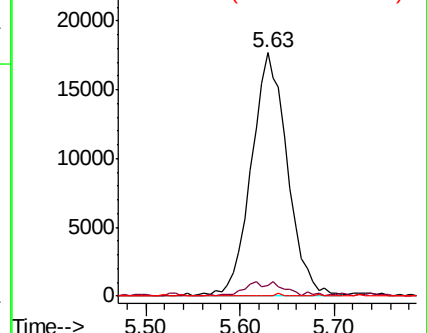
121 0.0 23.4 35.0#

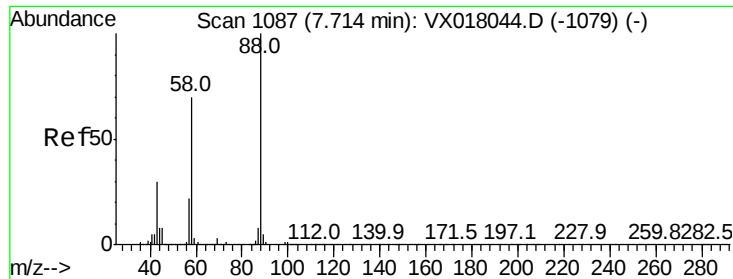


Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V





#49

1,4-Dioxane

Concen: 1.168 ug/l

RT: 7.70 min Scan# 1085

Delta R.T. -0.01 min

Lab File: VX018090.D

Acq: 27 Aug 2020 14:43

Instrument :

MSVOA\_X

ClientSampleId :

VX0827WBL01

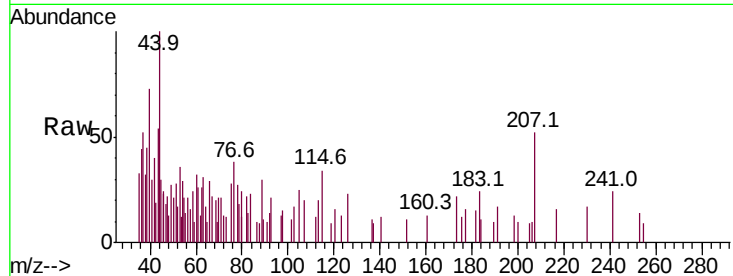
Tot Ion: 88 Resp: 133

Ion Ratio Lower Upper

88 100

43 233.1 27.4 41.0#

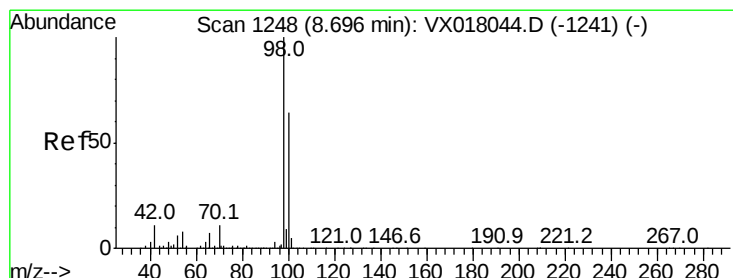
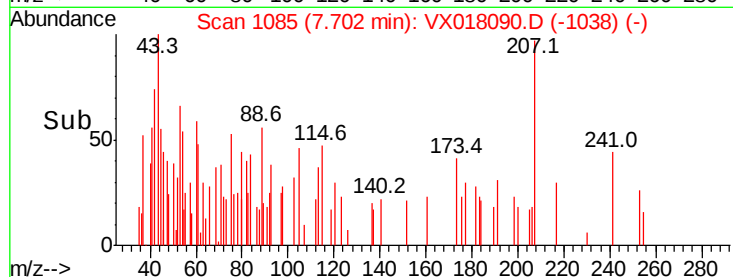
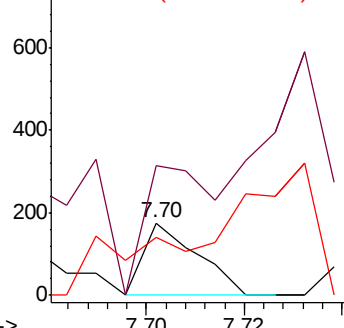
58 0.0 56.4 84.6#



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: 51.317 ug/l

RT: 8.70 min Scan# 1248

Delta R.T. -0.00 min

Lab File: VX018090.D

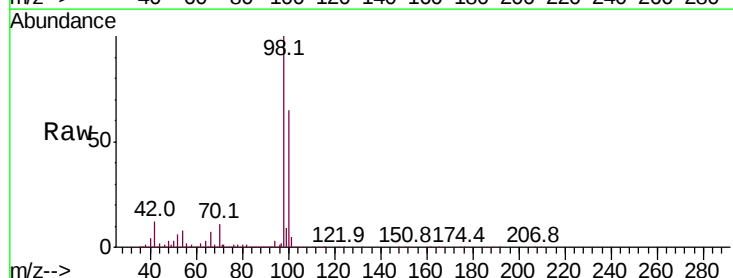
Acq: 27 Aug 2020 14:43

Tgt Ion: 98 Resp: 950250

Ion Ratio Lower Upper

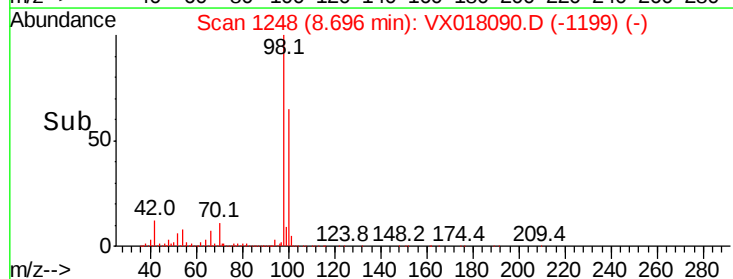
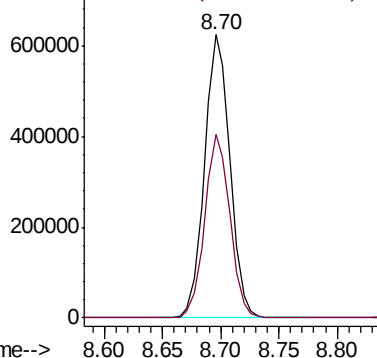
98 100

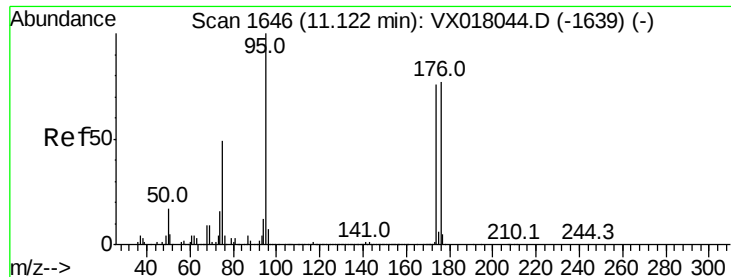
100 64.1 52.2 78.4



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V





#62

4-Bromofluorobenzene

Concen: 47.704 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.00 min

Lab File: VX018090.D

Acq: 27 Aug 2020 14:43

Instrument :

MSVOA\_X

ClientSampleId :

VX0827WBL01

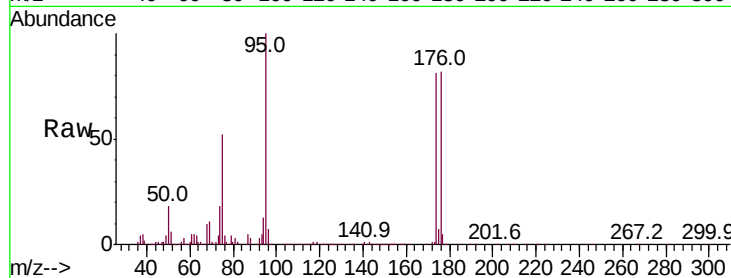
Tot Ion: 95 Resp: 347544

Ion Ratio Lower Upper

95 100

174 80.9 0.0 160.2

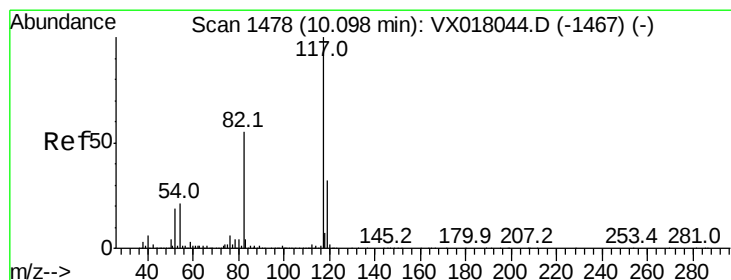
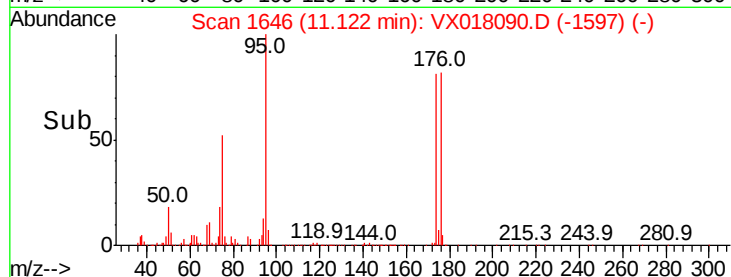
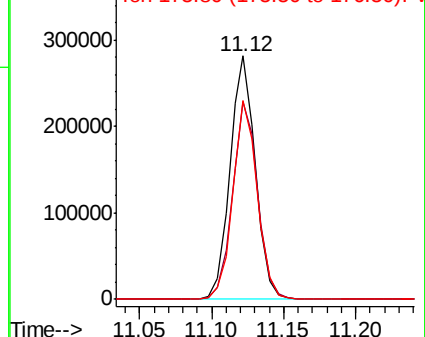
176 79.1 0.0 155.8



Abundance Ion 94.90 (94.60 to 95.60): VX018044.D (-1639) (-)

Ion 173.80 (173.50 to 174.50): VX018044.D (-1639) (-)

Ion 175.80 (175.50 to 176.50): VX018044.D (-1639) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.10 min Scan# 1478

Delta R.T. -0.00 min

Lab File: VX018090.D

Acq: 27 Aug 2020 14:43

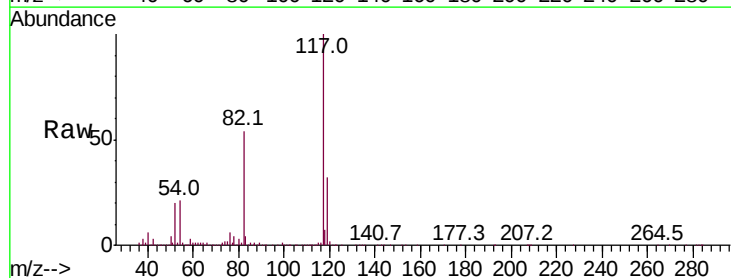
Tgt Ion: 117 Resp: 692351

Ion Ratio Lower Upper

117 100

82 53.7 44.2 66.2

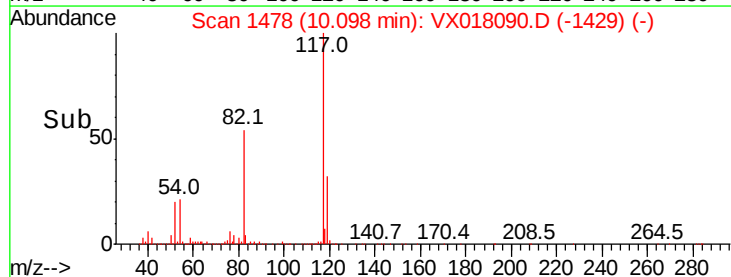
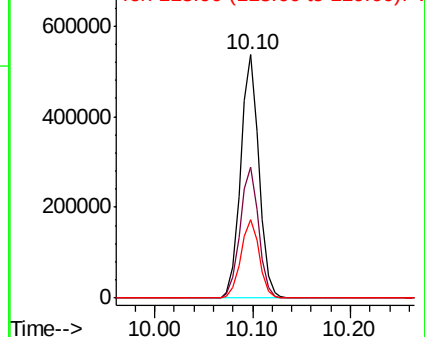
119 32.3 25.7 38.5

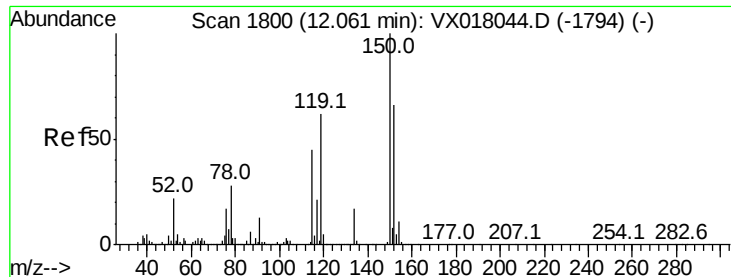


Abundance Ion 116.90 (116.60 to 117.60): VX018044.D (-1467) (-)

Ion 82.00 (81.70 to 82.70): VX018044.D (-1467) (-)

Ion 118.90 (118.60 to 119.60): VX018044.D (-1467) (-)





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.06 min Scan# 1800

Delta R.T. -0.00 min

Lab File: VX018090.D

Acq: 27 Aug 2020 14:43

Instrument :

MSVOA\_X

ClientSampled :

VX0827WBL01

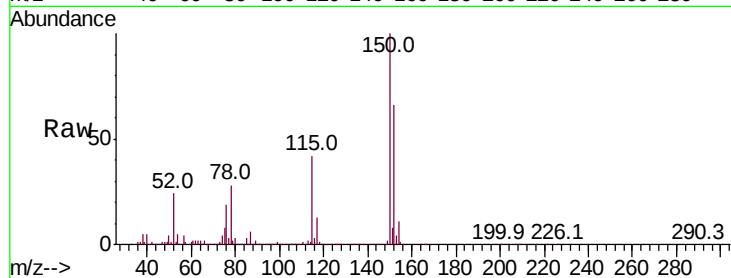
Tot Ion:152 Resp: 326983

Ion Ratio Lower Upper

152 100

115 59.6 41.5 124.5

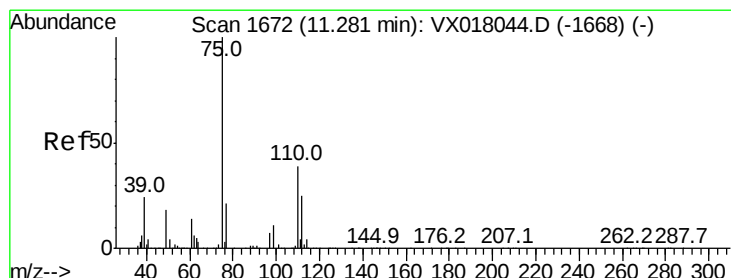
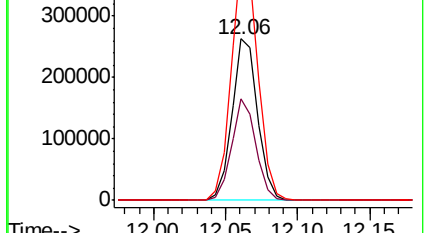
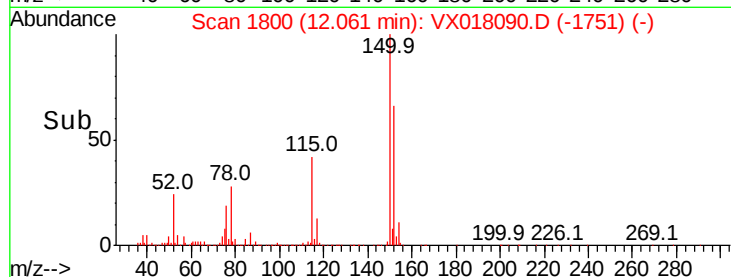
150 155.1 0.0 343.8



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: 25.184 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.16 min

Lab File: VX018090.D

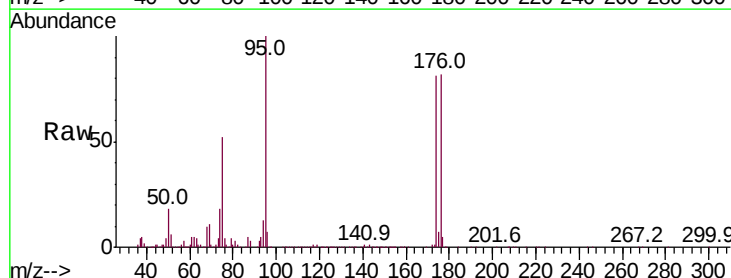
Acq: 27 Aug 2020 14:43

Tgt Ion: 75 Resp: 183182

Ion Ratio Lower Upper

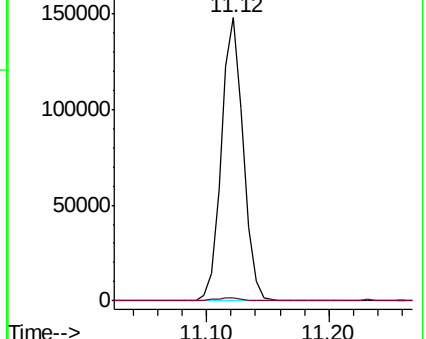
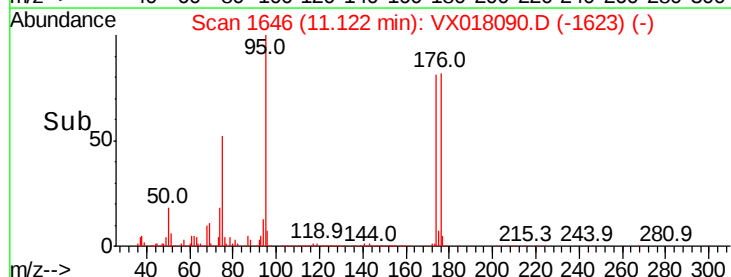
75 100

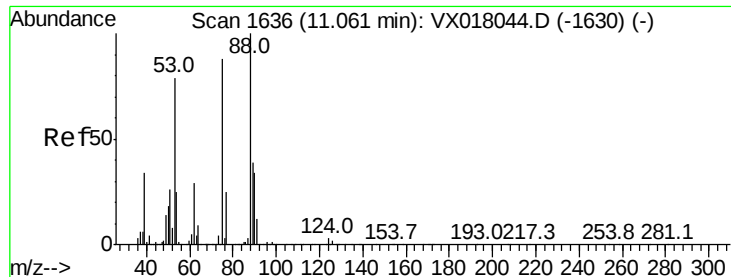
77 1.4 20.8 62.2#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0

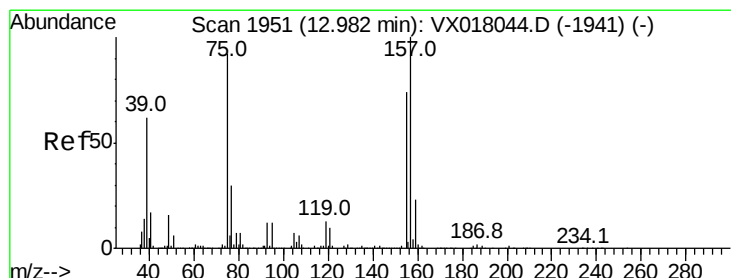
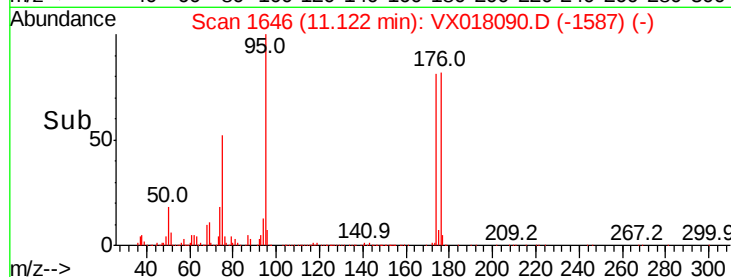
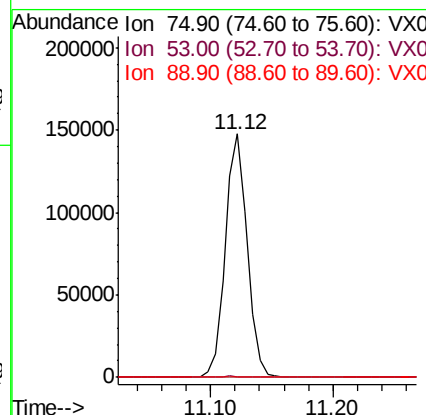
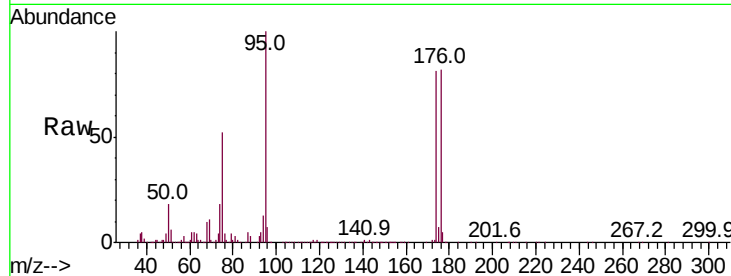




#81  
trans-1,4-Dichloro-2-butene  
Concen: 68.017 ug/l  
RT: 11.12 min Scan# 1646  
Delta R.T. 0.06 min  
Lab File: VX018090.D  
Acq: 27 Aug 2020 14:43

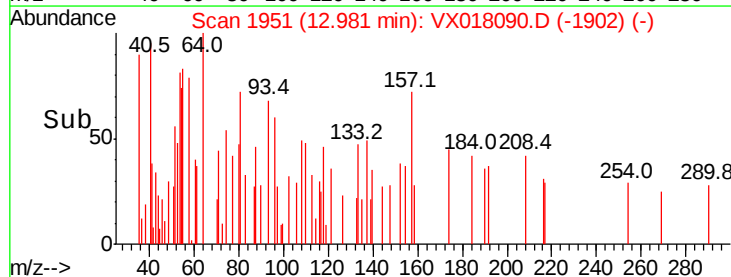
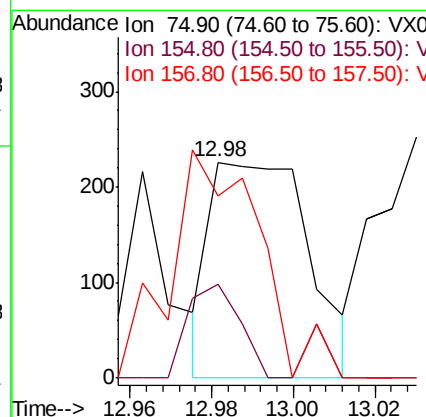
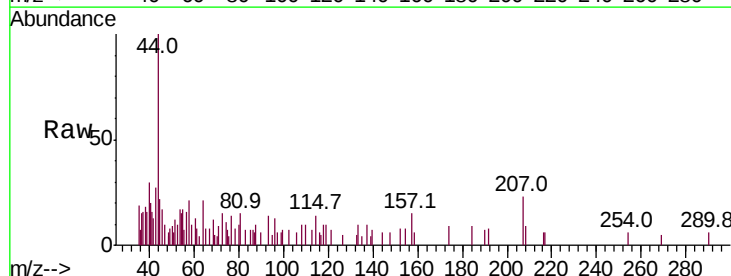
Instrument :  
MSVOA\_X  
ClientSampleId :  
VX0827WBL01

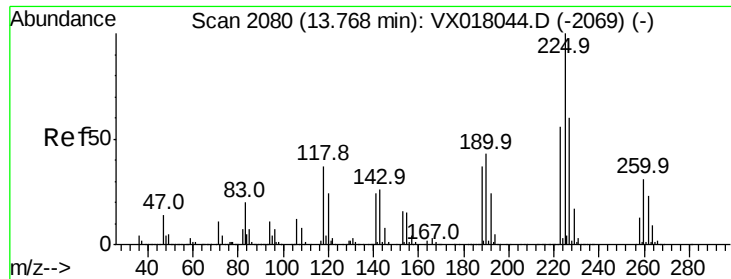
Tot Ion: 75 Resp: 183182  
Ion Ratio Lower Upper  
75 100  
53 0.5 74.7 112.1#  
89 0.1 36.6 54.8#



#92  
1,2-Dibromo-3-Chloropropane  
Concen: 0.201 ug/l  
RT: 12.98 min Scan# 1951  
Delta R.T. -0.00 min  
Lab File: VX018090.D  
Acq: 27 Aug 2020 14:43

Tgt Ion: 75 Resp: 382  
Ion Ratio Lower Upper  
75 100  
155 22.8 40.2 120.6#  
157 95.0 55.0 165.2





#94

Hexachlorobutadiene

Concen: 0.285 ug/l

RT: 13.76 min Scan# 2079

Delta R.T. -0.01 min

Lab File: VX018090.D

Acq: 27 Aug 2020 14:43

Instrument :

MSVOA\_X

ClientSampleId :

VX0827WBL01

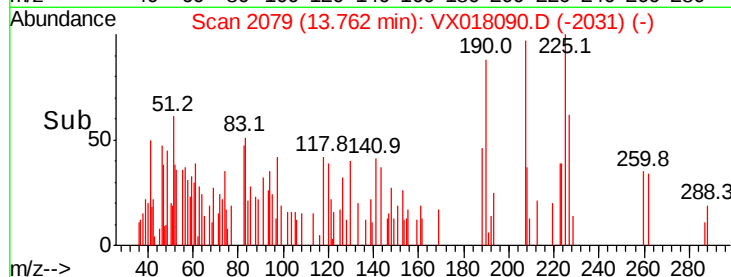
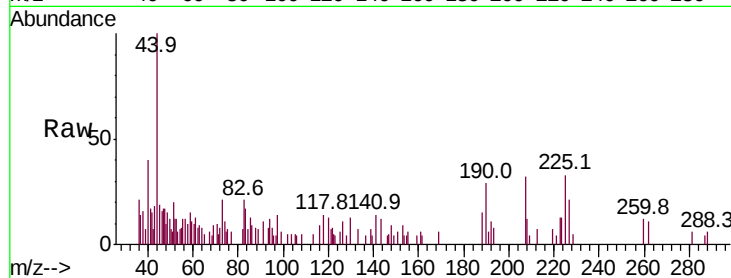
Tot Ion:225 Resp: 739

Ion Ratio Lower Upper

225 100

223 48.2 30.7 92.1

227 77.4 32.6 97.8



Abundance Ion 224.70 (224.40 to 225.40): V

Ion 222.70 (222.40 to 223.40): V

Ion 226.70 (226.40 to 227.40): V

