

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX073120\  
 Data File : VX017737.D  
 Acq On : 01 Aug 2020 05:56  
 Operator : JC/SP  
 Sample : L3511-16  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 53 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 SP

Quant Time: Aug 01 07:11:05 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X072320W.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Jul 24 05:48:09 2020  
 Response via : Initial Calibration

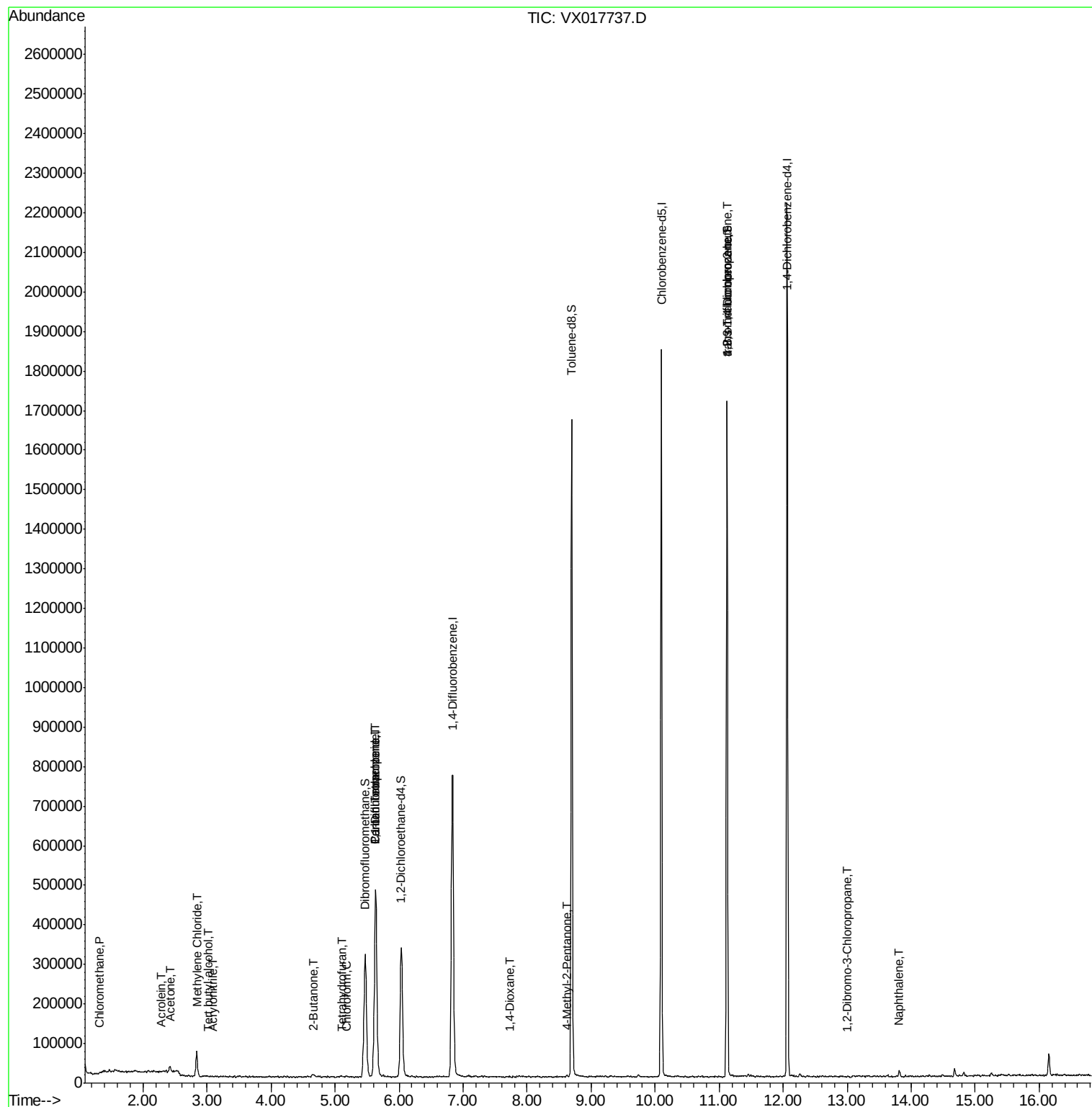
| Internal Standards             | R.T.  | QIon | Response | Conc        | Units   | Dev(Min) |
|--------------------------------|-------|------|----------|-------------|---------|----------|
| 1) Pentafluorobenzene          | 5.64  | 168  | 446610   | 50.00       | ug/l    | 0.00     |
| 34) 1,4-Difluorobenzene        | 6.84  | 114  | 771095   | 50.00       | ug/l    | 0.00     |
| 63) Chlorobenzene-d5           | 10.10 | 117  | 844111   | 50.00       | ug/l    | 0.00     |
| 72) 1,4-Dichlorobenzene-d4     | 12.06 | 152  | 449645   | 50.00       | ug/l    | 0.00     |
| System Monitoring Compounds    |       |      |          |             |         |          |
| 33) 1,2-Dichloroethane-d4      | 6.03  | 65   | 332779   | 58.01       | ug/l    | 0.00     |
| Spiked Amount 50.000           |       |      | Recovery | =           | 116.02% |          |
| 35) Dibromofluoromethane       | 5.47  | 113  | 267908   | 51.95       | ug/l    | 0.00     |
| Spiked Amount 50.000           |       |      | Recovery | =           | 103.90% |          |
| 50) Toluene-d8                 | 8.70  | 98   | 963397   | 51.78       | ug/l    | 0.00     |
| Spiked Amount 50.000           |       |      | Recovery | =           | 103.56% |          |
| 62) 4-Bromofluorobenzene       | 11.12 | 95   | 427867   | 57.47       | ug/l    | 0.00     |
| Spiked Amount 50.000           |       |      | Recovery | =           | 114.94% |          |
| Target Compounds               |       |      |          |             |         |          |
|                                |       |      |          |             | Qvalue  |          |
| 2) Dichlorodifluoromethane     | 1.18  | 85   | 172      | Below Cal   | #       | 45       |
| 3) Chloromethane               | 1.32  | 50   | 1325     | 0.605 ug/l  | #       | 29       |
| 5) Bromomethane                | 1.63  | 94   | 222      | Below Cal   | #       | 3        |
| 6) Chloroethane                | 1.70  | 64   | 554      | Below Cal   | #       | 46       |
| 8) Diethyl Ether               | 2.18  | 74   | 1000     | Below Cal   |         | 58       |
| 11) Tert butyl alcohol         | 3.01  | 59   | 924      | 0.764 ug/l  | #       | 38       |
| 13) Acrolein                   | 2.28  | 56   | 344      | 4.515 ug/l  |         | 94       |
| 15) Acrylonitrile              | 3.09  | 53   | 699      | 0.268 ug/l  | #       | 22       |
| 16) Acetone                    | 2.42  | 43   | 13550    | 5.366 ug/l  |         | 96       |
| 20) Methylene Chloride         | 2.84  | 84   | 29693    | 5.090 ug/l  |         | 96       |
| 25) 2-Butanone                 | 4.65  | 43   | 1349     | 0.376 ug/l  | #       | 69       |
| 29) Tetrahydrofuran            | 5.10  | 42   | 627      | 0.282 ug/l  | #       | 1        |
| 30) Chloroform                 | 5.18  | 83   | 2277     | 0.251 ug/l  | #       | 67       |
| 36) 1,1-Dichloropropene        | 5.63  | 75   | 32889    | 4.447 ug/l  | #       | 52       |
| 38) Carbon Tetrachloride       | 5.63  | 117  | 46300    | 5.155 ug/l  | #       | 16       |
| 49) 1,4-Dioxane                | 7.73  | 88   | 114      | 0.898 ug/l  | #       | 1        |
| 51) 4-Methyl-2-Pentanone       | 8.62  | 43   | 3137     | 0.394 ug/l  |         | 98       |
| 76) 1,2,3-Trichloropropane     | 11.12 | 75   | 215209   | 23.267 ug/l | #       | 35       |
| 81) trans-1,4-Dichloro-2-buten | 11.12 | 75   | 215209   | 58.629 ug/l | #       | 11       |
| 92) 1,2-Dibromo-3-Chloropropan | 12.99 | 75   | 429      | 2.726 ug/l  | #       | 14       |
| 95) Naphthalene                | 13.82 | 128  | 9402     | 0.317 ug/l  | #       | 92       |

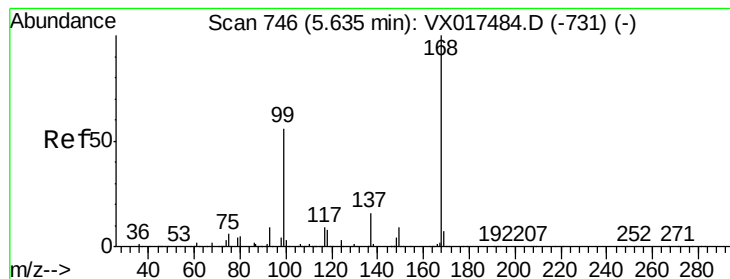
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA X\DATA\VX073120\  
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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_X\METHOD\82X072320W.M  
Quant Title : SW846 8260  
QLast Update : Fri Jul 24 05:48:09 2020  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.64 min Scan# 746

Delta R.T. -0.00 min

Lab File: VX017737.D

Acq: 01 Aug 2020 05:56

Instrument :

MSVOA\_X

ClientSampleId :

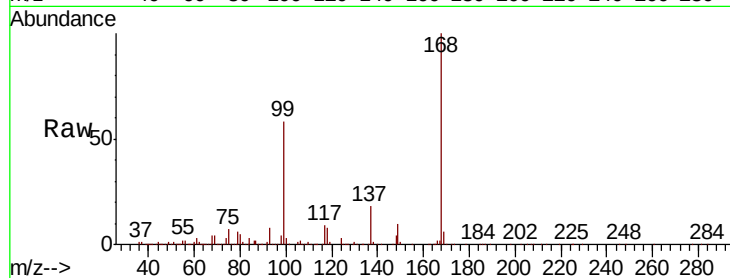
SP

Tot Ion:168 Resp: 446610

Ion Ratio Lower Upper

168 100

99 58.4 43.4 65.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.64

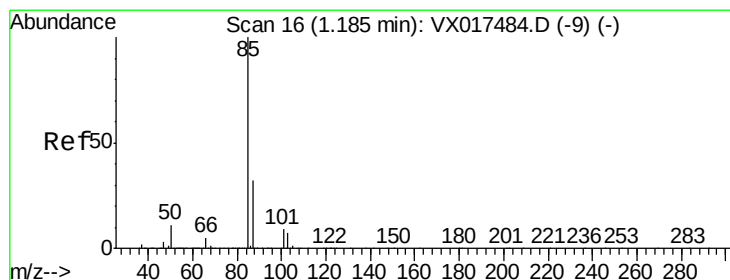
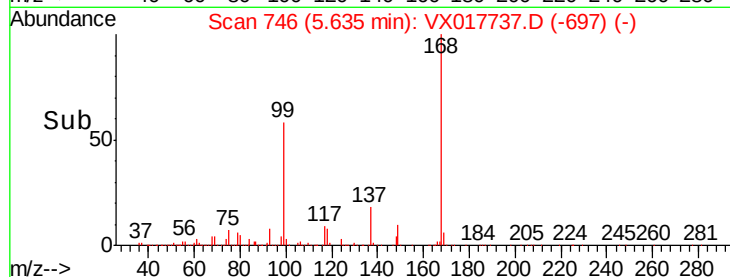
150000

100000

50000

0

Time-->



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 1.18 min Scan# 16

Delta R.T. 0.00 min

Lab File: VX017737.D

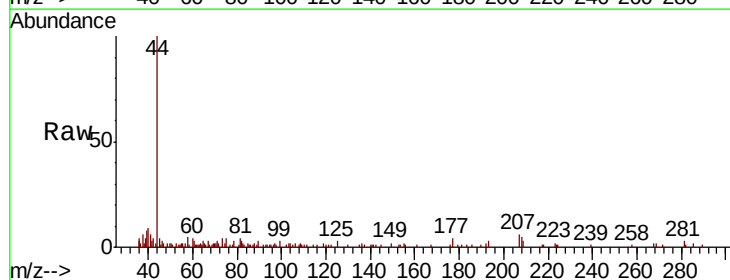
Acq: 01 Aug 2020 05:56

Tgt Ion: 85 Resp: 172

Ion Ratio Lower Upper

85 100

87 62.9 16.1 48.3#



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0

250

200

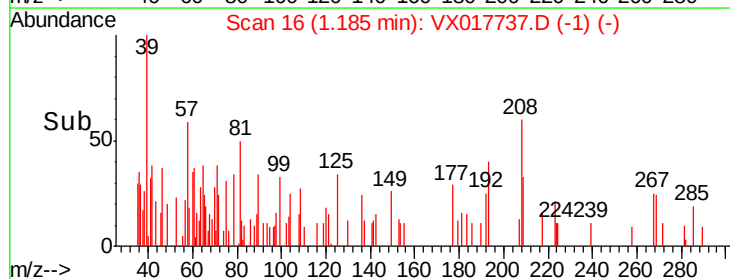
150

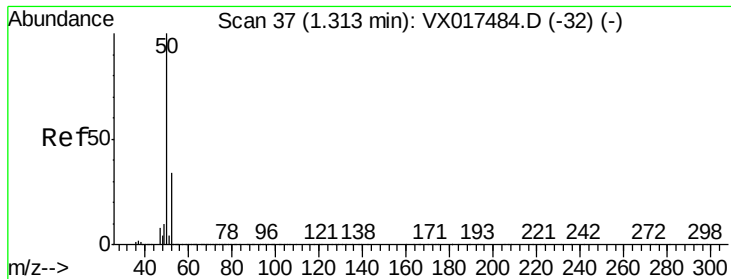
100

50

0

Time-->





#3

Chloromethane

Concen: 0.605 ug/l

RT: 1.32 min Scan# 38

Delta R.T. 0.01 min

Lab File: VX017737.D

Acq: 01 Aug 2020 05:56

Instrument :

MSVOA\_X

ClientSampleId :

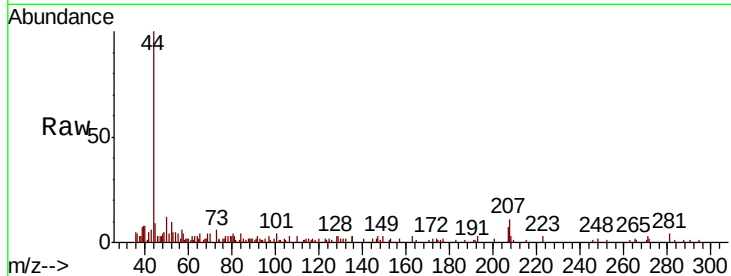
SP

Tot Ion: 50 Resp: 1325

Ion Ratio Lower Upper

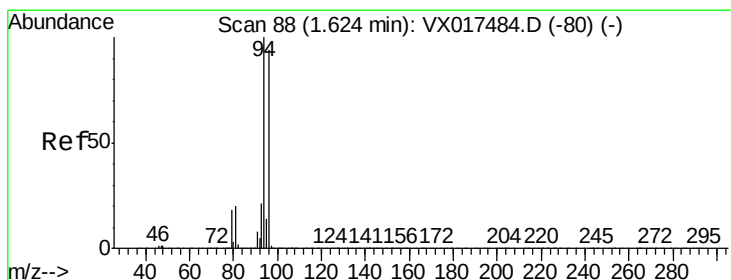
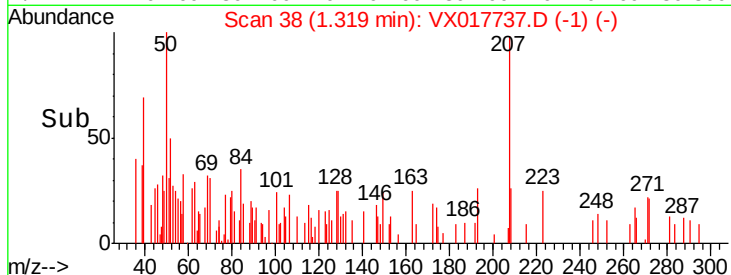
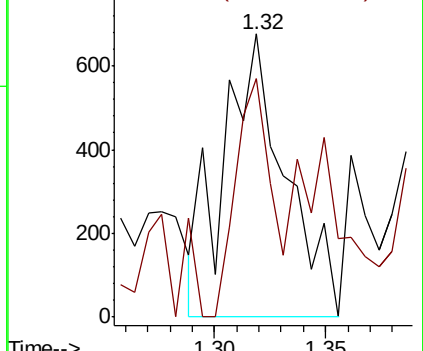
50 100

52 72.0 25.9 38.9#



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0



#5

Bromomethane

Concen: Below Cal

RT: 1.63 min Scan# 89

Delta R.T. 0.01 min

Lab File: VX017737.D

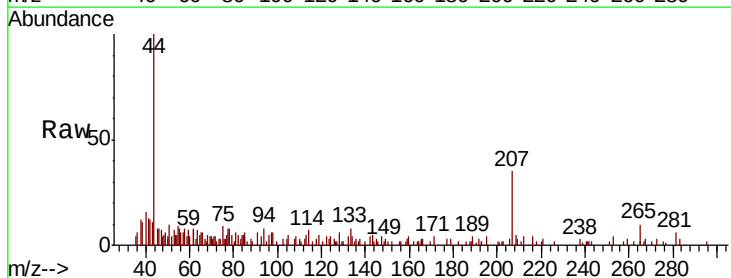
Acq: 01 Aug 2020 05:56

Tgt Ion: 94 Resp: 222

Ion Ratio Lower Upper

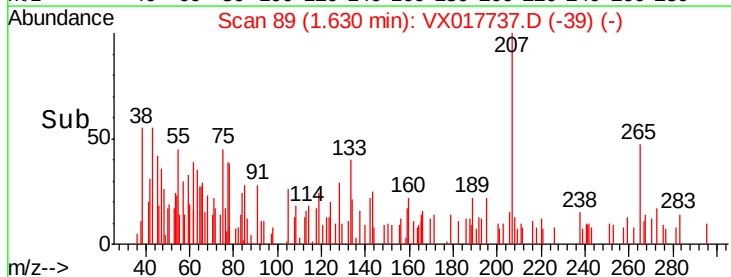
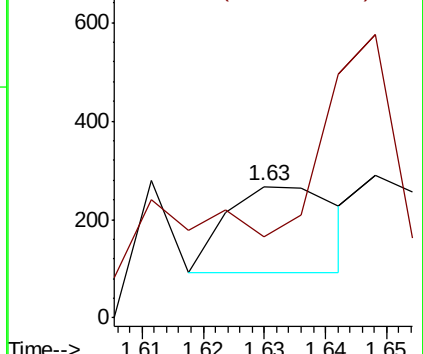
94 100

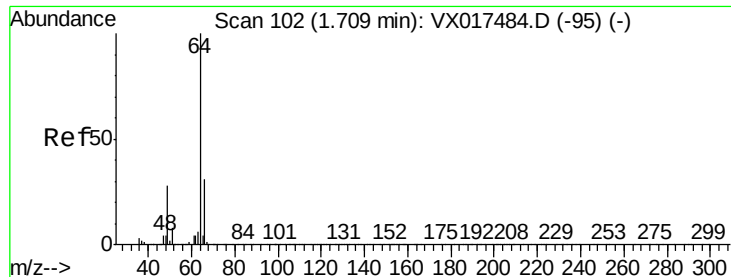
96 0.0 74.1 111.1#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0





#6

Chloroethane

Concen: Below Cal

RT: 1.70 min Scan# 101

Delta R.T. -0.01 min

Lab File: VX017737.D

Acq: 01 Aug 2020 05:56

Instrument :

MSVOA\_X

ClientSampled :

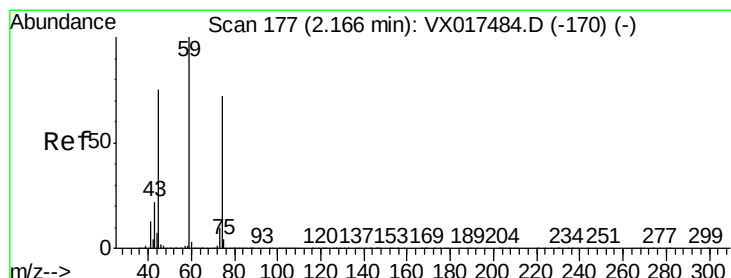
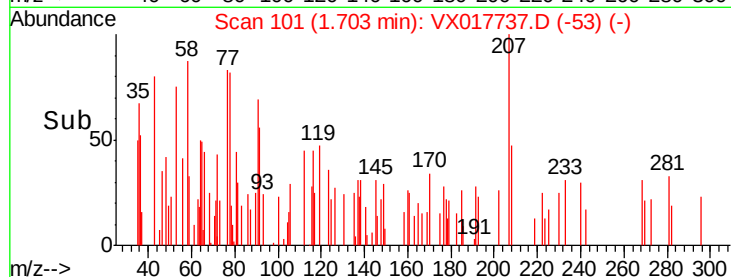
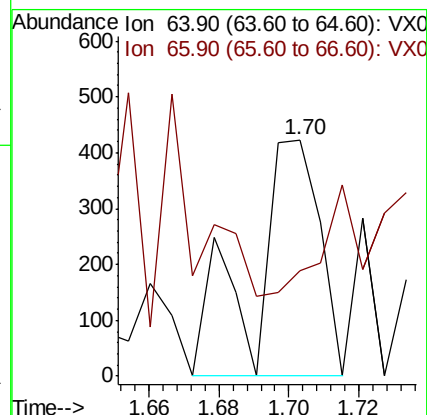
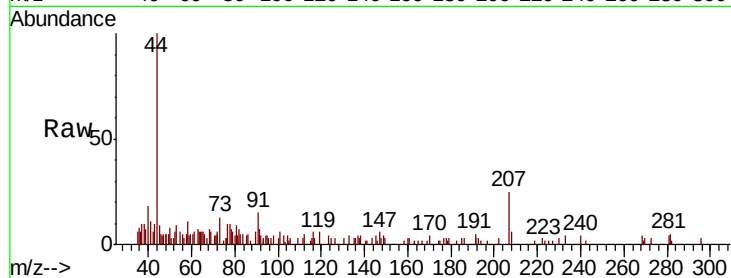
SP

Tot Ion: 64 Resp: 554

Ion Ratio Lower Upper

64 100

66 1.3 24.9 37.3#



#8

Diethyl Ether

Concen: Below Cal

RT: 2.18 min Scan# 179

Delta R.T. 0.01 min

Lab File: VX017737.D

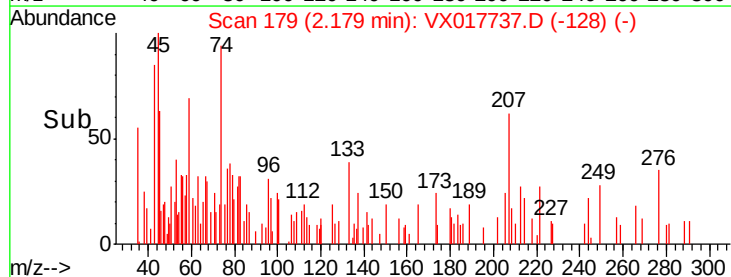
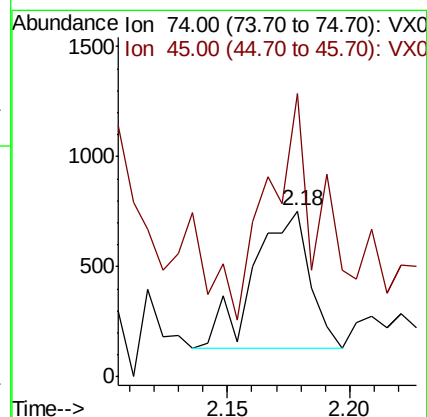
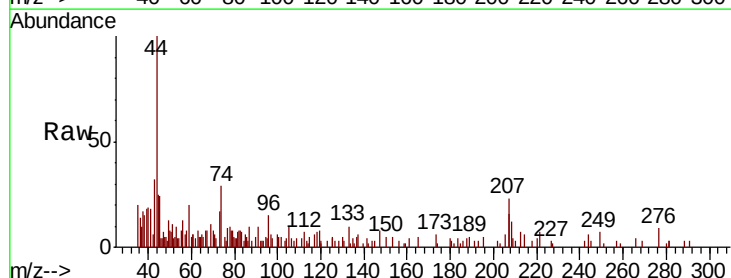
Acq: 01 Aug 2020 05:56

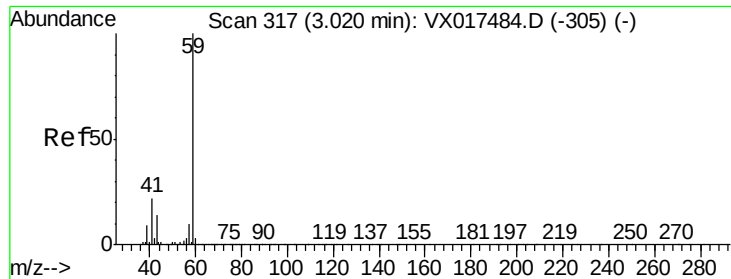
Tgt Ion: 74 Resp: 1000

Ion Ratio Lower Upper

74 100

45 144.1 50.8 152.5

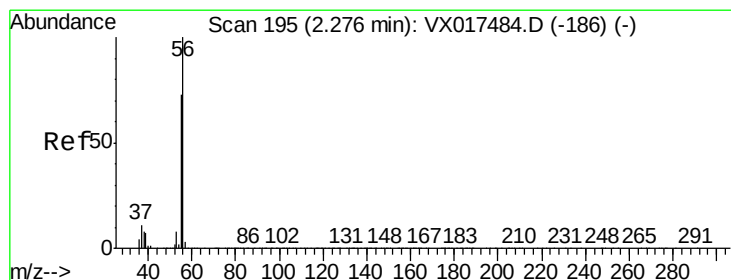
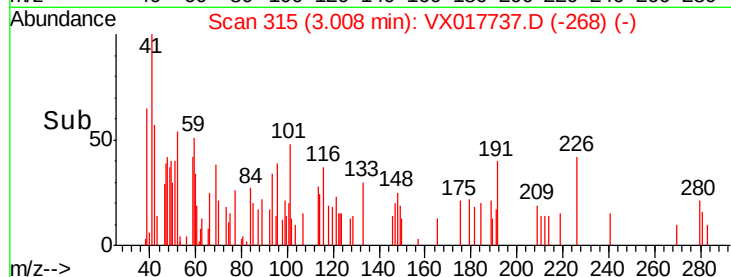
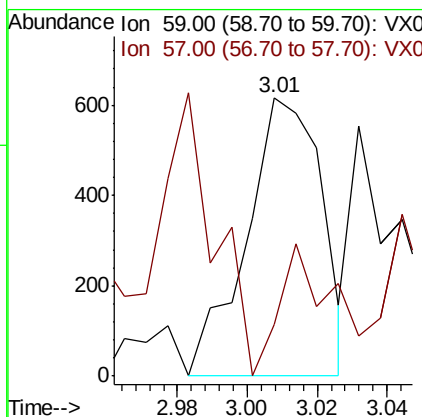
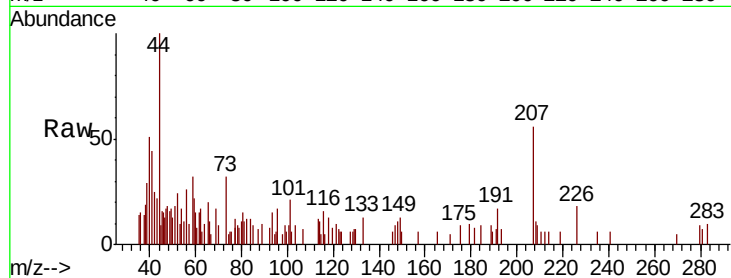




#11  
Tert butyl alcohol  
Concen: 0.764 ug/l  
RT: 3.01 min Scan# 315  
Delta R.T. -0.01 min  
Lab File: VX017737.D  
Acq: 01 Aug 2020 05:56

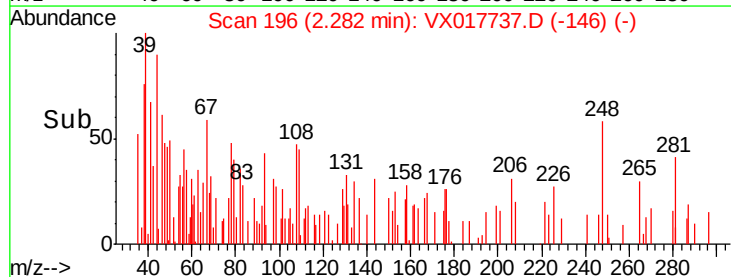
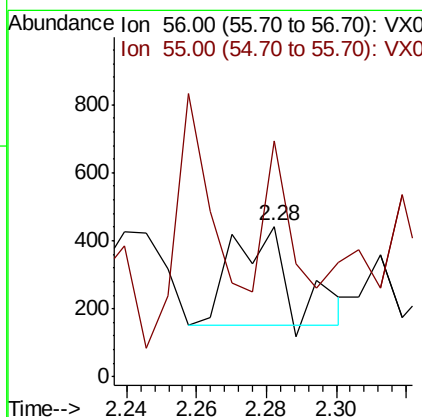
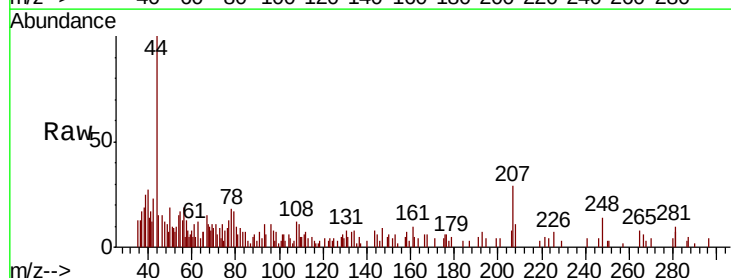
Instrument :  
MSVOA\_X  
ClientSampleId :  
SP

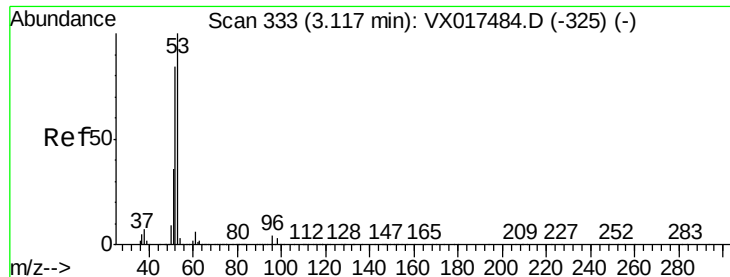
Tot Ion: 59 Resp: 924  
Ion Ratio Lower Upper  
59 100  
57 33.9 8.6 12.8#



#13  
Acrolein  
Concen: 4.515 ug/l  
RT: 2.28 min Scan# 196  
Delta R.T. 0.01 min  
Lab File: VX017737.D  
Acq: 01 Aug 2020 05:56

Tgt Ion: 56 Resp: 344  
Ion Ratio Lower Upper  
56 100  
55 66.9 57.4 86.2





#15

Acrylonitrile

Concen: 0.268 ug/l

RT: 3.09 min Scan# 329

Delta R.T. -0.02 min

Lab File: VX017737.D

Acq: 01 Aug 2020 05:56

Instrument :

MSVOA\_X

ClientSampleId :

SP

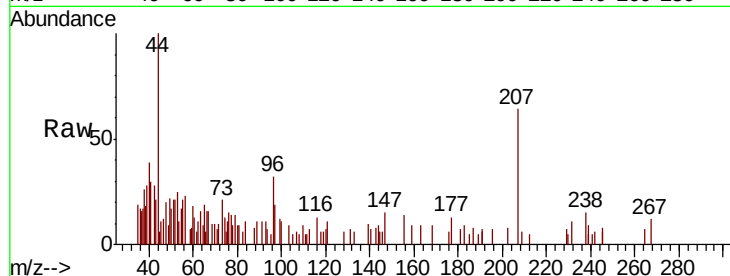
Tot Ion: 53 Resp: 699

Ion Ratio Lower Upper

53 100

52 0.0 66.6 99.8#

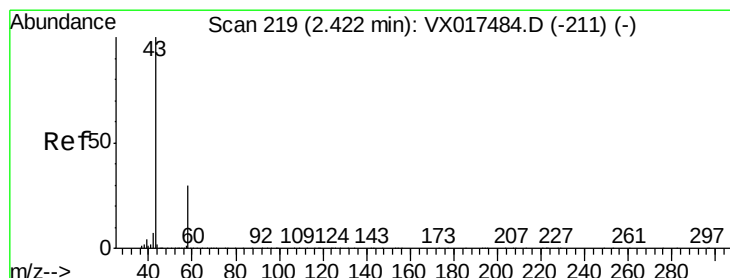
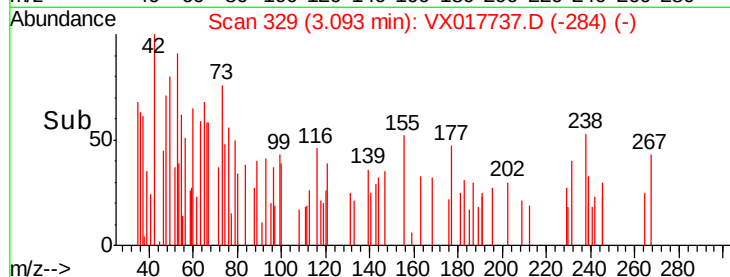
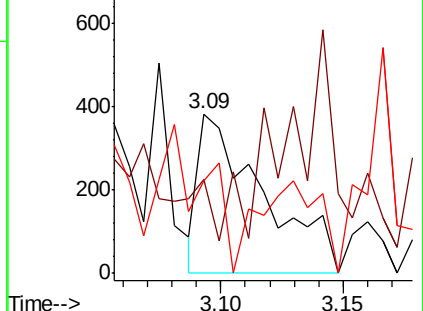
51 64.1 29.4 44.2#



Abundance Ion 53.00 (52.70 to 53.70): VX0

Ion 52.00 (51.70 to 52.70): VX0

Ion 51.00 (50.70 to 51.70): VX0



#16

Acetone

Concen: 5.366 ug/l

RT: 2.42 min Scan# 218

Delta R.T. -0.01 min

Lab File: VX017737.D

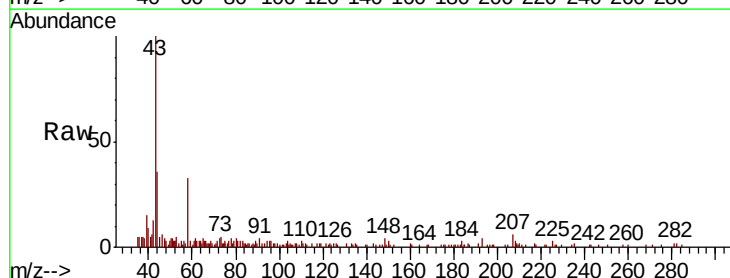
Acq: 01 Aug 2020 05:56

Tgt Ion: 43 Resp: 13550

Ion Ratio Lower Upper

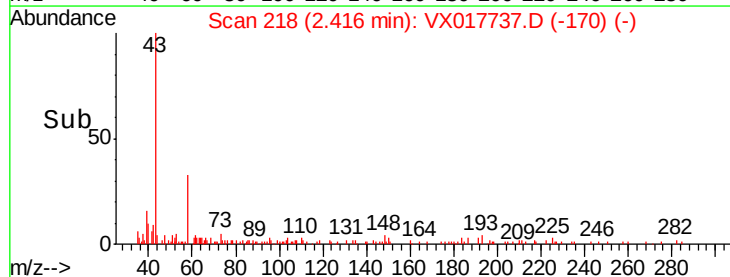
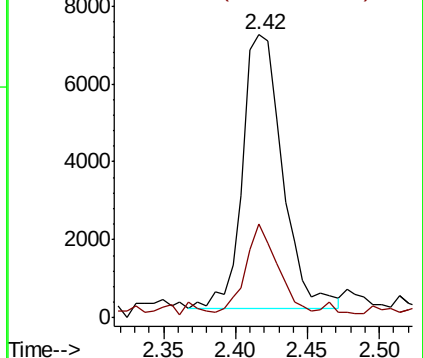
43 100

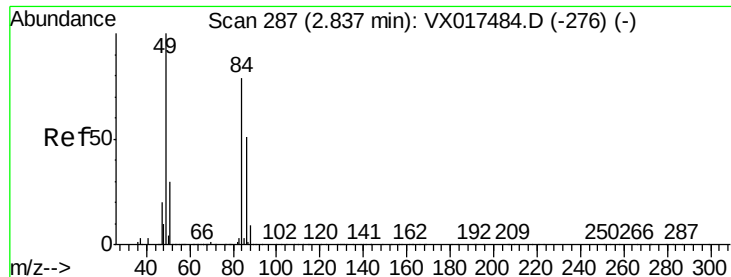
58 32.3 24.2 36.4



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

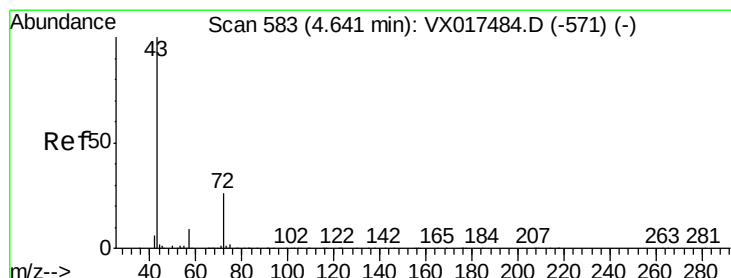
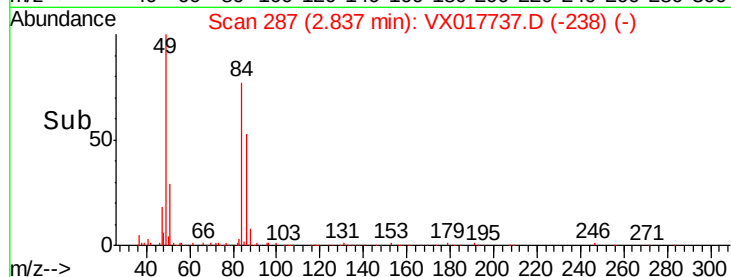
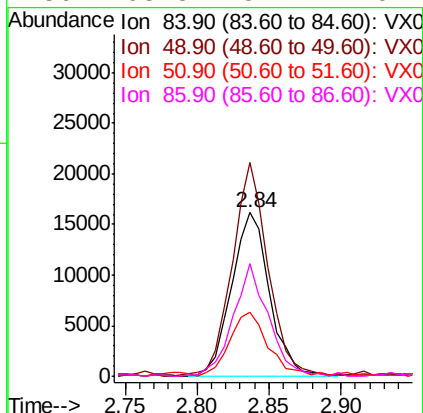
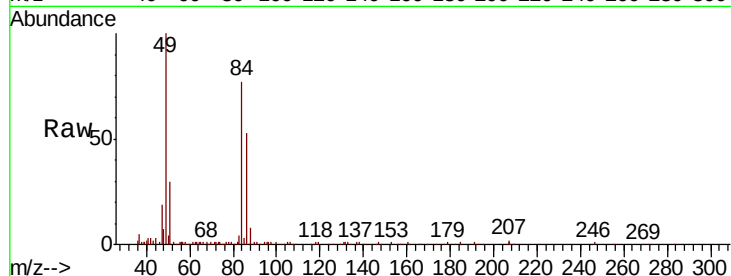




#20  
Methylene Chloride  
Concen: 5.090 ug/l  
RT: 2.84 min Scan# 287  
Delta R.T. 0.00 min  
Lab File: VX017737.D  
Acq: 01 Aug 2020 05:56

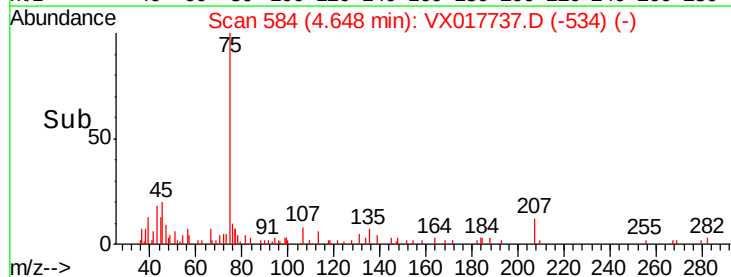
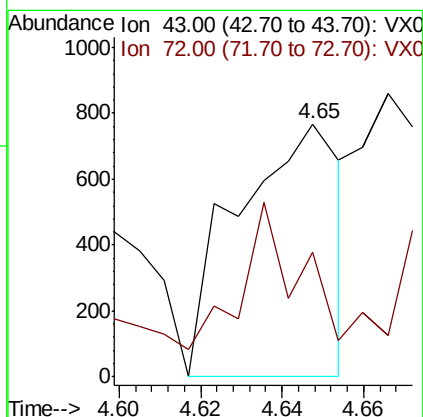
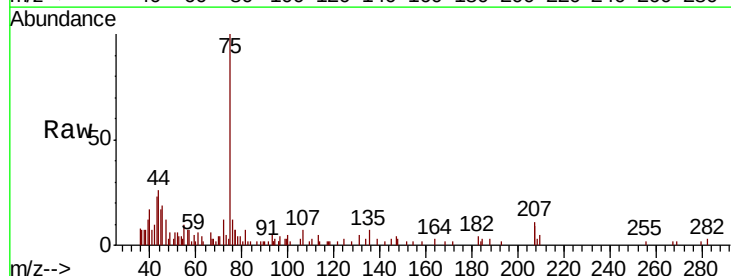
Instrument :  
MSVOA\_X  
ClientSampleId :  
SP

|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 84    | Resp: | 29693 |
| Ion      | Ratio | Lower | Upper |
| 84       | 100   |       |       |
| 49       | 130.4 | 100.3 | 150.5 |
| 51       | 37.4  | 30.5  | 45.7  |
| 86       | 68.3  | 51.1  | 76.7  |

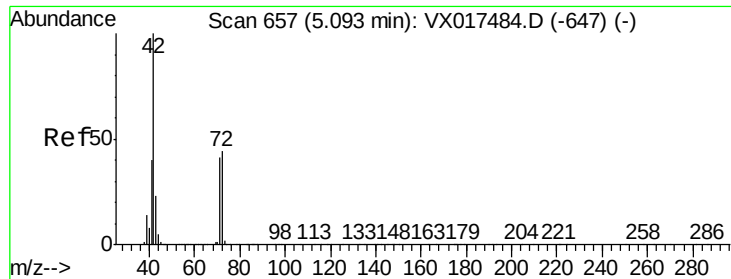


#25  
2-Butanone  
Concen: 0.376 ug/l  
RT: 4.65 min Scan# 584  
Delta R.T. 0.01 min  
Lab File: VX017737.D  
Acq: 01 Aug 2020 05:56

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 43    | Resp: | 1349  |
| Ion      | Ratio | Lower | Upper |
| 43       | 100   |       |       |
| 72       | 38.8  | 19.0  | 28.4# |







#29

Tetrahydrofuran

Concen: 0.282 ug/l

RT: 5.10 min Scan# 658

Delta R.T. 0.01 min

Lab File: VX017737.D

Acq: 01 Aug 2020 05:56

Instrument :

MSVOA\_X

ClientSampled :

SP

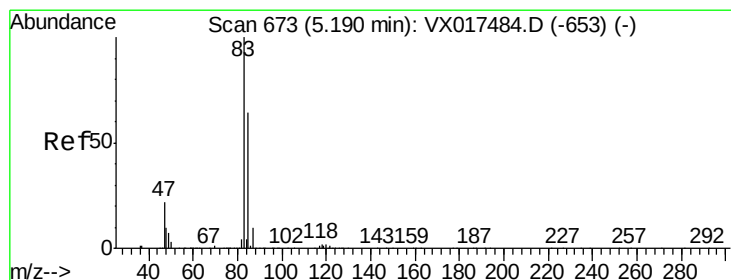
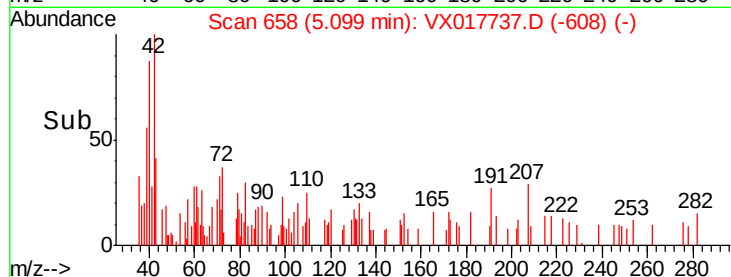
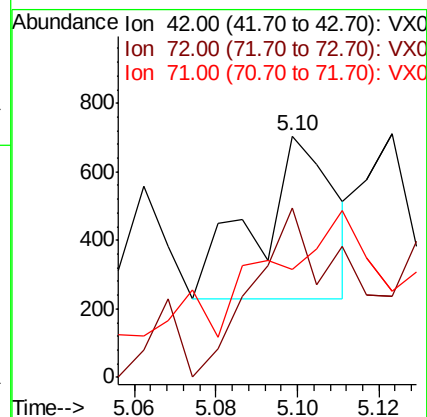
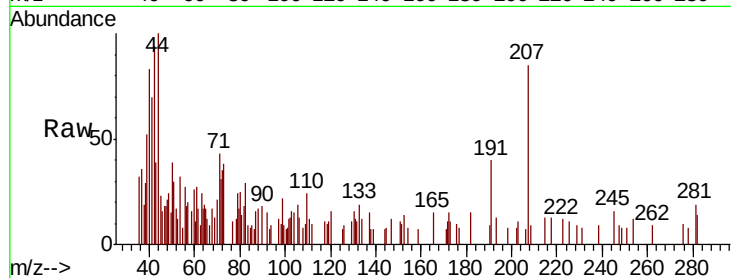
Tot Ion: 42 Resp: 627

Ion Ratio Lower Upper

42 100

72 132.7 35.5 53.3#

71 203.0 33.0 49.4#



#30

Chloroform

Concen: 0.251 ug/l

RT: 5.18 min Scan# 671

Delta R.T. -0.01 min

Lab File: VX017737.D

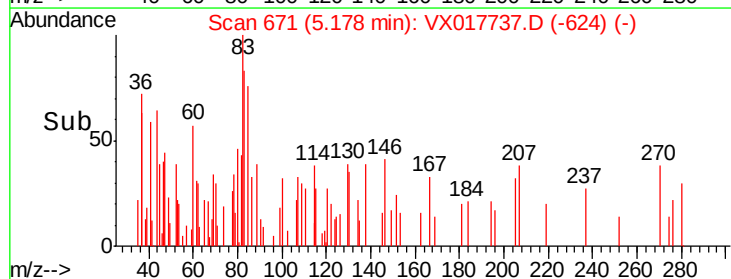
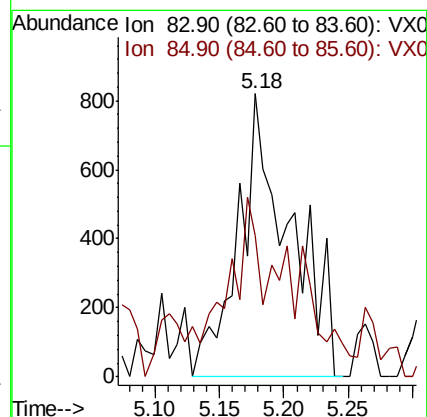
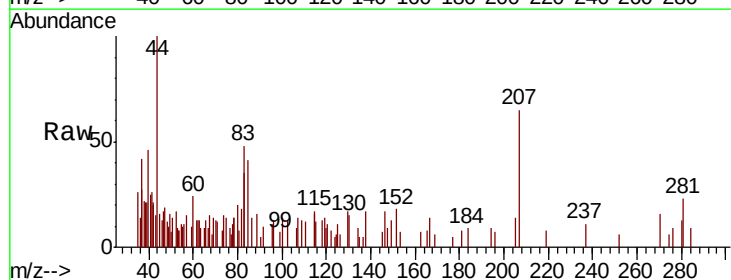
Acq: 01 Aug 2020 05:56

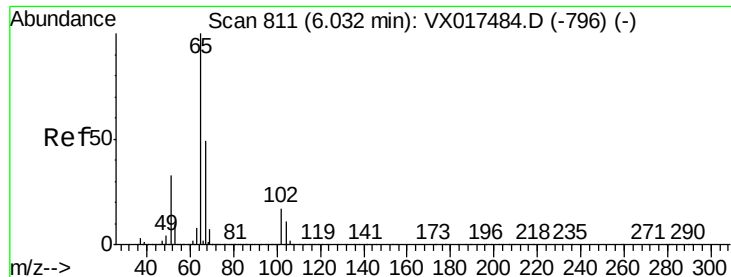
Tgt Ion: 83 Resp: 2277

Ion Ratio Lower Upper

83 100

85 38.2 51.4 77.2#

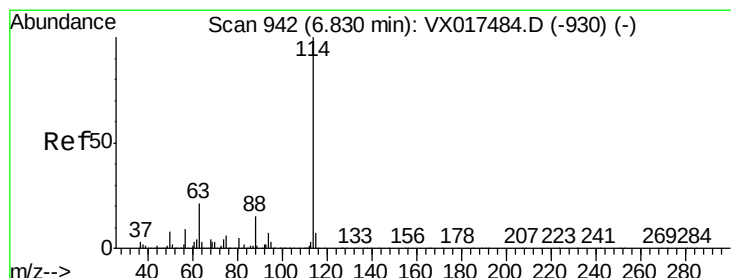
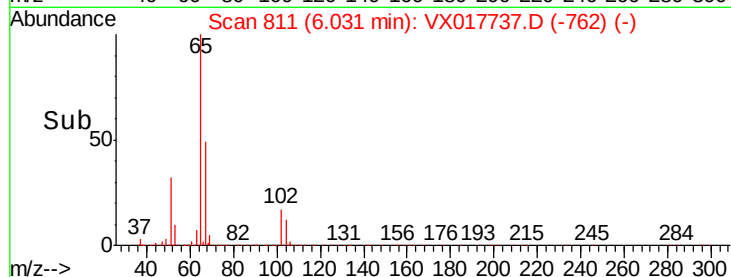
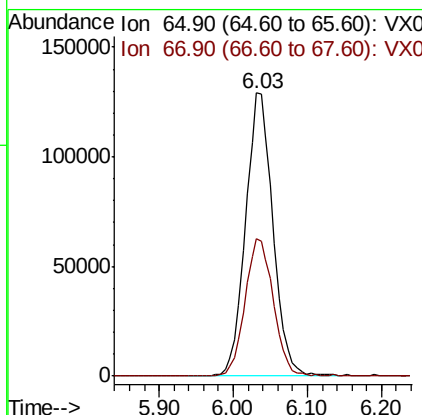
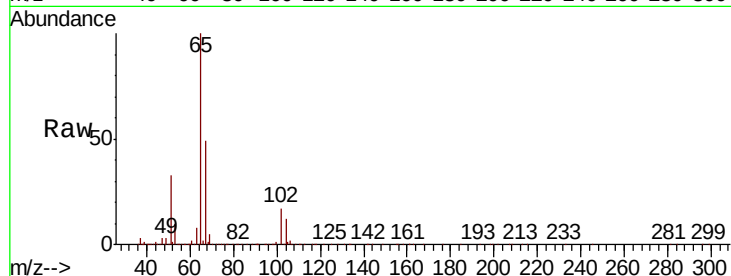




#33  
 1,2-Dichloroethane-d4  
 Concen: 58.007 ug/l  
 RT: 6.03 min Scan# 811  
 Delta R.T. -0.00 min  
 Lab File: VX017737.D  
 Acq: 01 Aug 2020 05:56

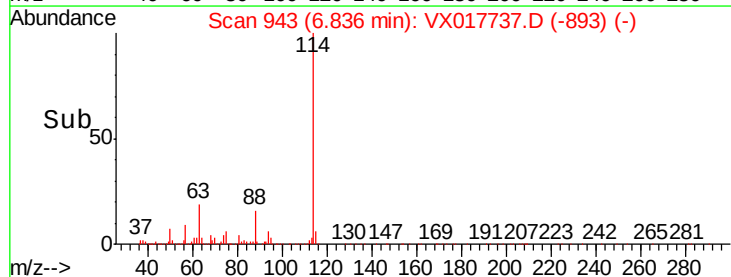
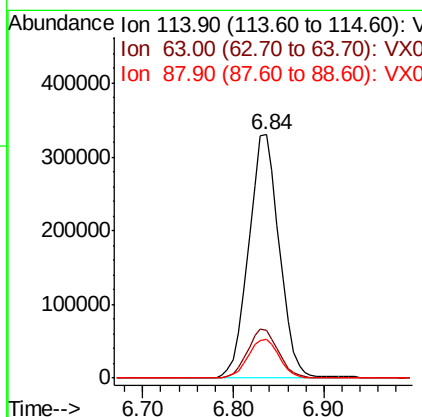
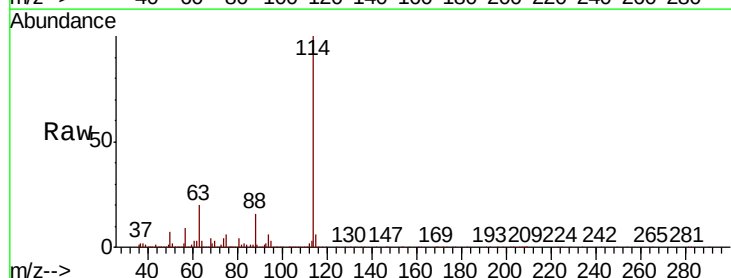
Instrument :  
 MSVOA\_X  
 ClientSampled :  
 SP

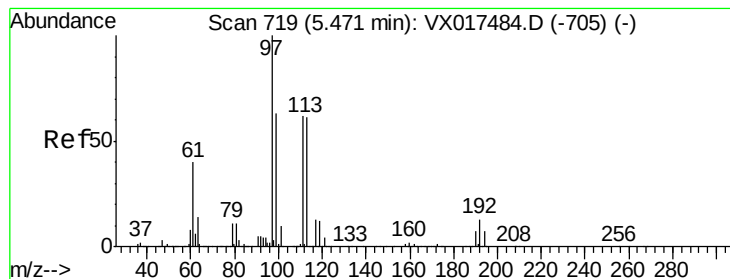
Tot Ion: 65 Resp: 332779  
 Ion Ratio Lower Upper  
 65 100  
 67 49.6 0.0 102.8



#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 6.84 min Scan# 943  
 Delta R.T. 0.01 min  
 Lab File: VX017737.D  
 Acq: 01 Aug 2020 05:56

Tgt Ion: 114 Resp: 771095  
 Ion Ratio Lower Upper  
 114 100  
 63 19.4 0.0 40.6  
 88 15.8 0.0 33.4





#35

Dibromofluoromethane

Concen: 51.949 ug/l

RT: 5.47 min Scan# 719

Delta R.T. -0.00 min

Lab File: VX017737.D

Acq: 01 Aug 2020 05:56

Instrument :

MSVOA\_X

ClientSampleId :

SP

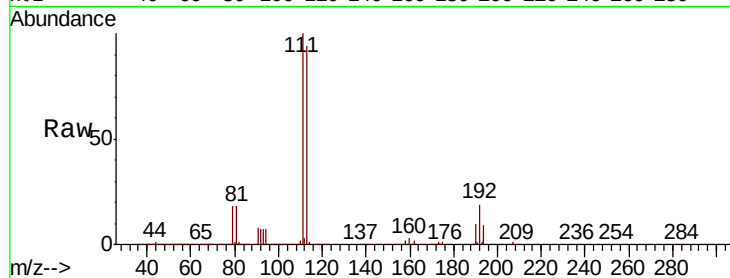
Tot Ion:113 Resp: 267908

Ion Ratio Lower Upper

113 100

111 101.8 80.7 121.1

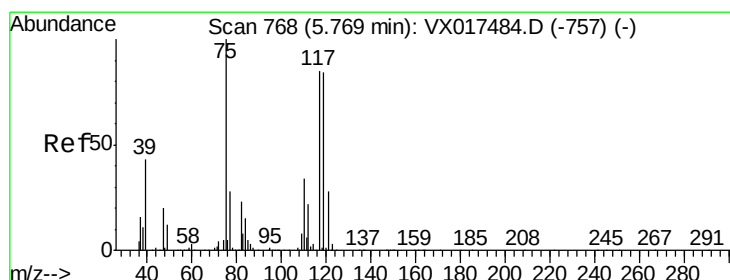
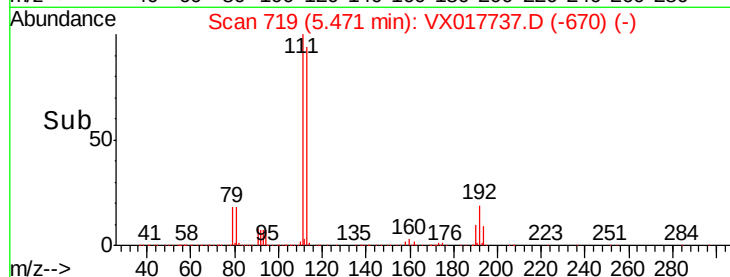
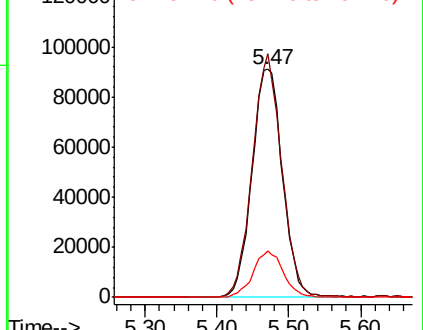
192 20.1 16.9 25.3



Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V



#36

1,1-Dichloropropene

Concen: 4.447 ug/l

RT: 5.63 min Scan# 745

Delta R.T. -0.14 min

Lab File: VX017737.D

Acq: 01 Aug 2020 05:56

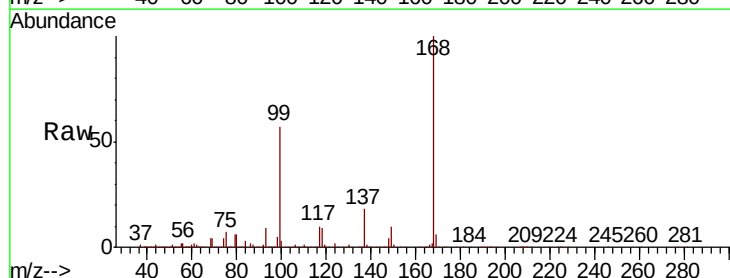
Tgt Ion: 75 Resp: 32889

Ion Ratio Lower Upper

75 100

110 11.8 18.1 54.3#

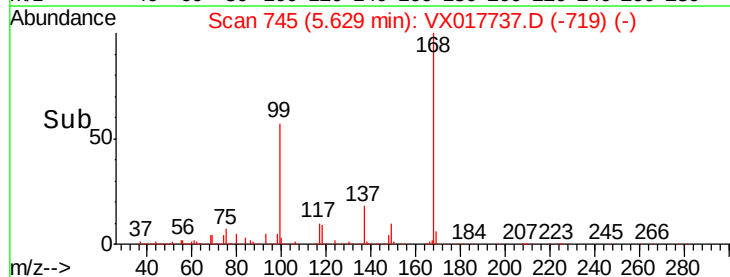
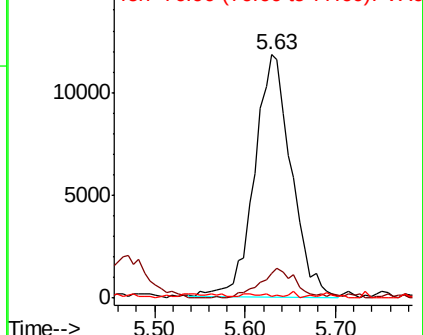
77 0.0 24.6 37.0#

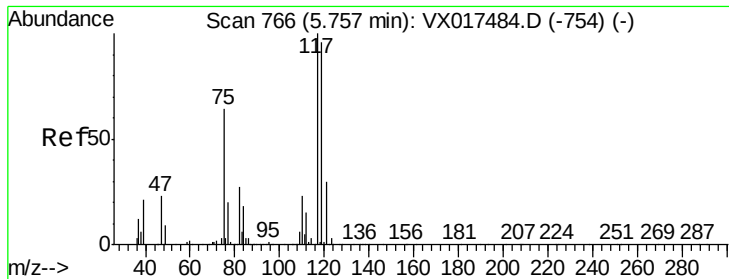


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0





#38

Carbon Tetrachloride

Concen: 5.155 ug/l

RT: 5.63 min Scan# 745

Delta R.T. -0.13 min

Lab File: VX017737.D

Acq: 01 Aug 2020 05:56

Instrument :

MSVOA\_X

ClientSampled :

SP

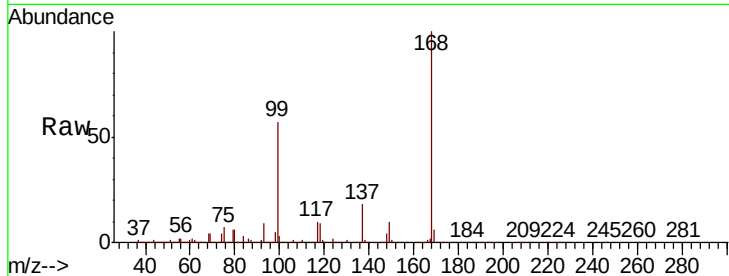
Tot Ion: 117 Resp: 46300

Ion Ratio Lower Upper

117 100

119 4.2 75.4 113.0#

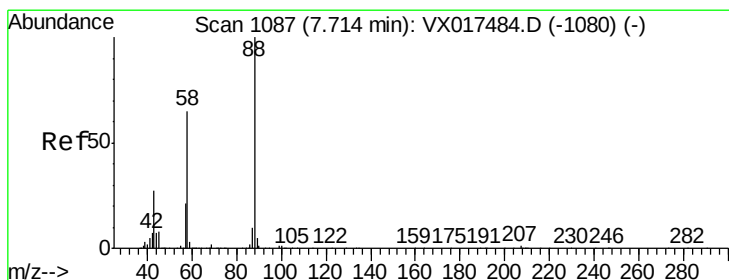
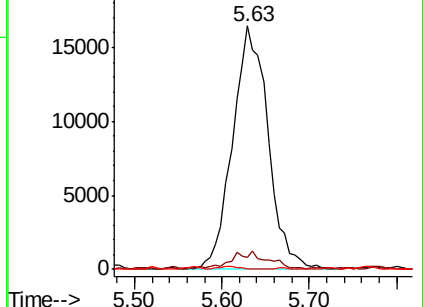
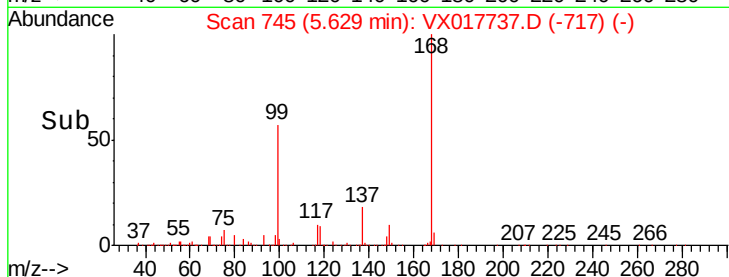
121 0.3 24.3 36.5#



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: 0.898 ug/l

RT: 7.73 min Scan# 1089

Delta R.T. 0.01 min

Lab File: VX017737.D

Acq: 01 Aug 2020 05:56

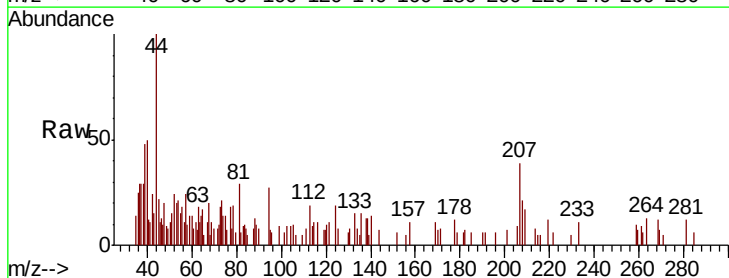
Tgt Ion: 88 Resp: 114

Ion Ratio Lower Upper

88 100

43 285.1 27.8 41.6#

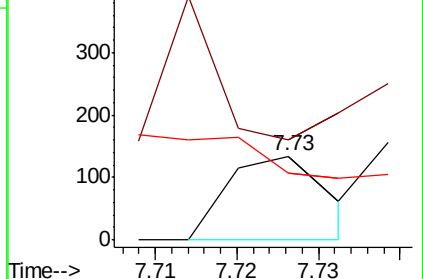
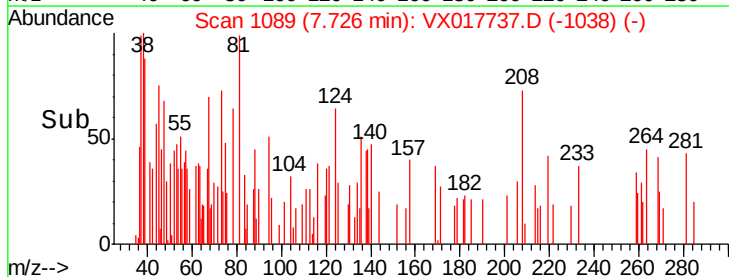
58 258.8 58.3 87.5#

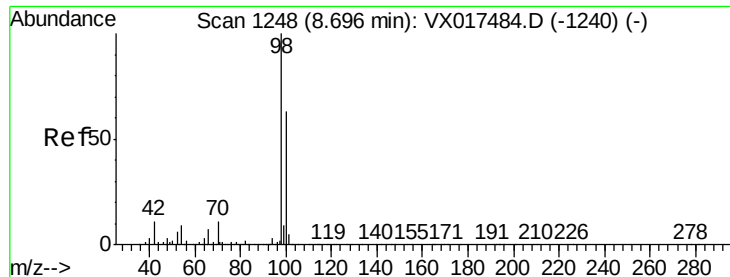


Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#50

Toluene-d8

Concen: 51.784 ug/l

RT: 8.70 min Scan# 1248

Delta R.T. 0.00 min

Lab File: VX017737.D

Acq: 01 Aug 2020 05:56

Instrument :

MSVOA\_X

ClientSampleId :

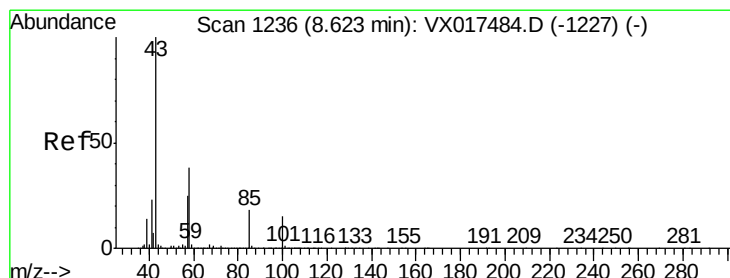
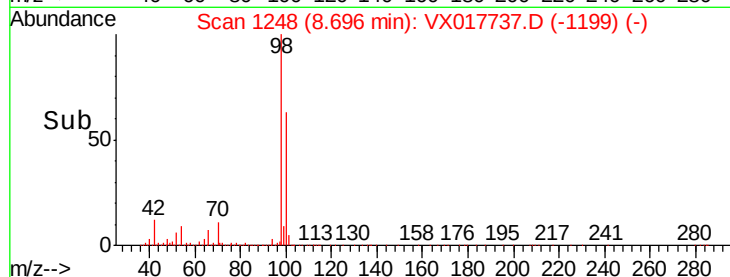
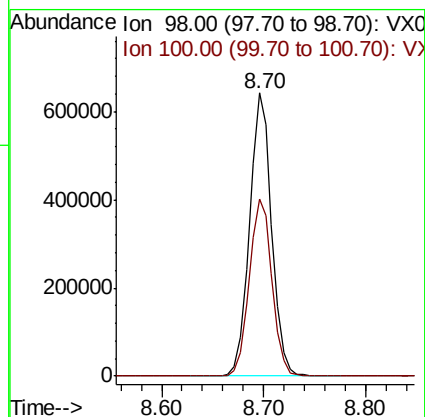
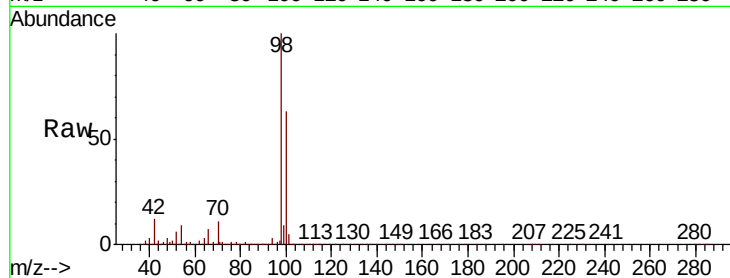
SP

Tot Ion: 98 Resp: 963397

Ion Ratio Lower Upper

98 100

100 64.5 52.3 78.5



#51

4-Methyl-2-Pentanone

Concen: 0.394 ug/l

RT: 8.62 min Scan# 1236

Delta R.T. -0.00 min

Lab File: VX017737.D

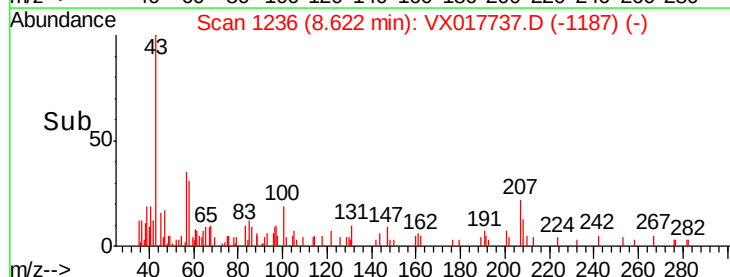
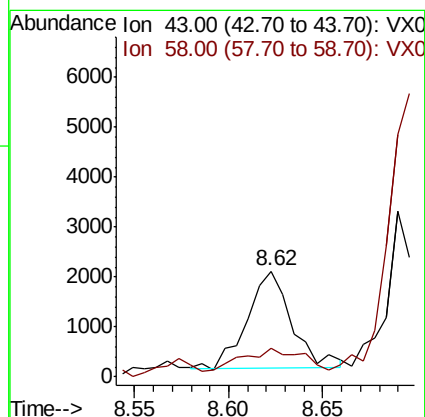
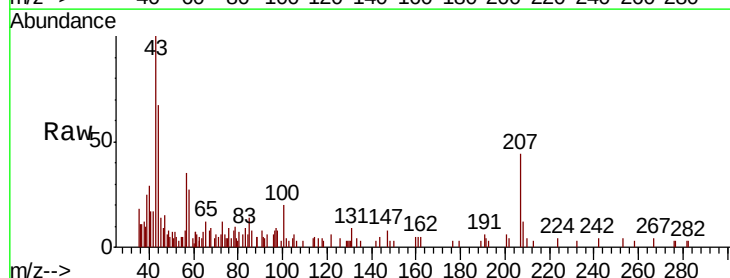
Acq: 01 Aug 2020 05:56

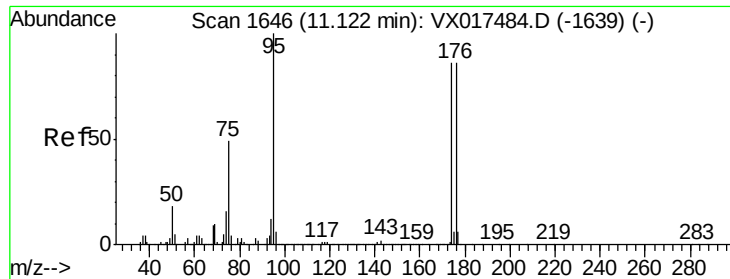
Tgt Ion: 43 Resp: 3137

Ion Ratio Lower Upper

43 100

58 40.0 31.0 46.4





#62

4-Bromofluorobenzene

Concen: 57.467 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.00 min

Lab File: VX017737.D

Acq: 01 Aug 2020 05:56

Instrument :

MSVOA\_X

ClientSampleId :

SP

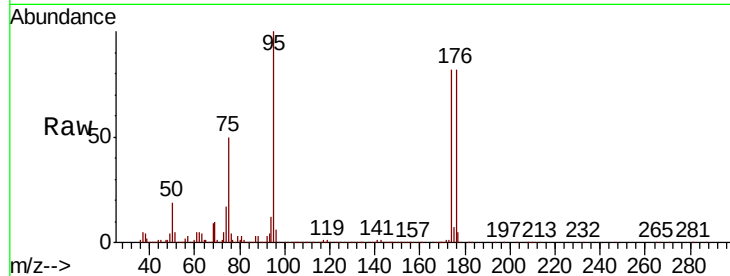
Tot Ion: 95 Resp: 427867

Ion Ratio Lower Upper

95 100

174 83.3 0.0 169.0

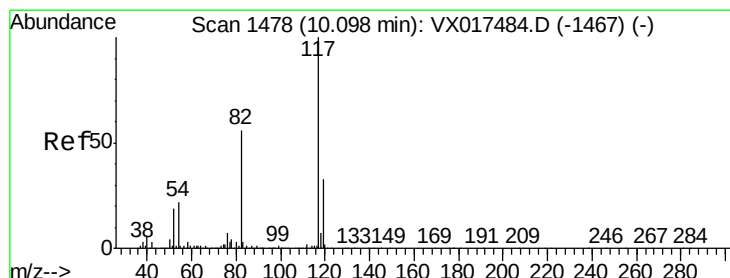
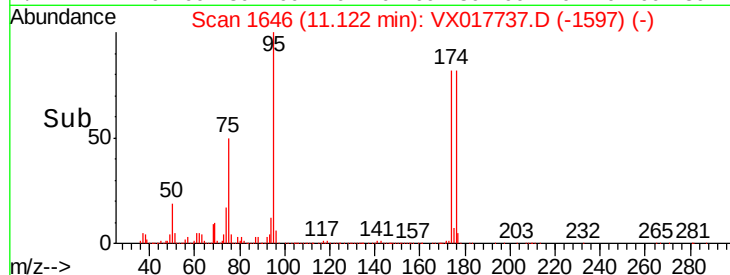
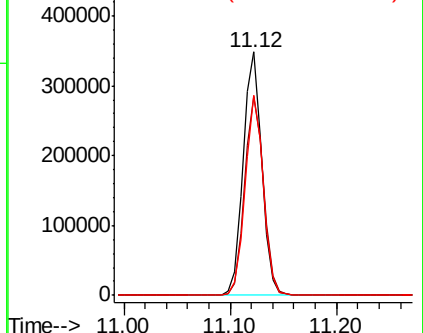
176 80.2 0.0 161.0



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: 10.10 min Scan# 1478

Delta R.T. -0.00 min

Lab File: VX017737.D

Acq: 01 Aug 2020 05:56

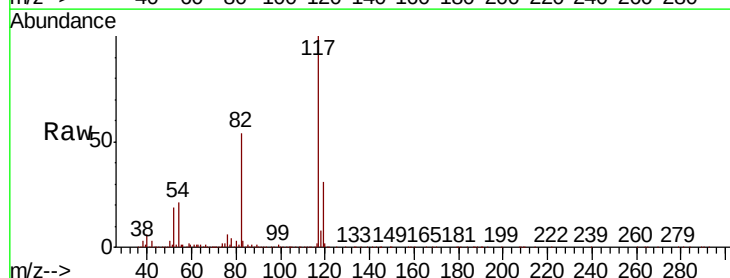
Tgt Ion: 117 Resp: 844111

Ion Ratio Lower Upper

117 100

82 53.9 44.0 66.0

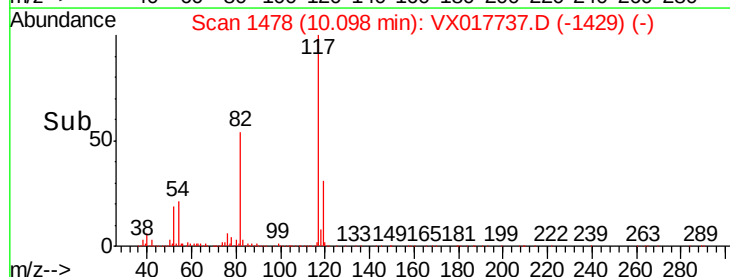
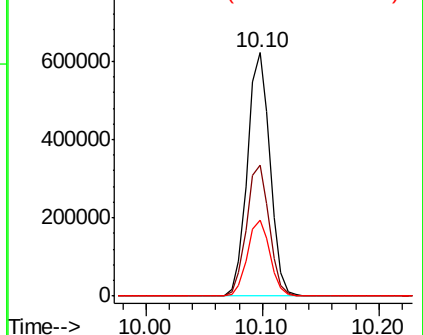
119 31.2 25.4 38.0

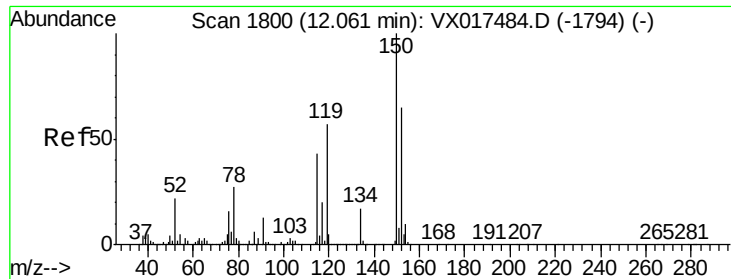


Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VX0

Ion 118.90 (118.60 to 119.60): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.06 min Scan# 1800

Delta R.T. -0.00 min

Lab File: VX017737.D

Acq: 01 Aug 2020 05:56

Instrument :

MSVOA\_X

ClientSampleId :

SP

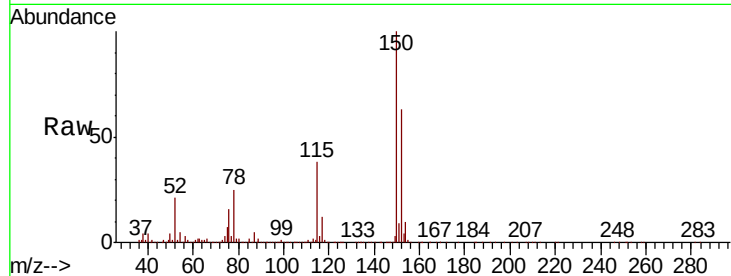
Tot Ion:152 Resp: 449645

Ion Ratio Lower Upper

152 100

115 59.6 65.5 196.6#

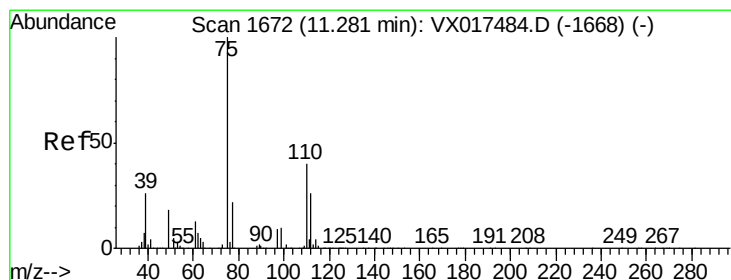
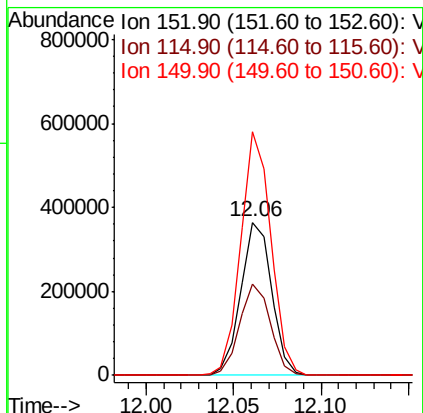
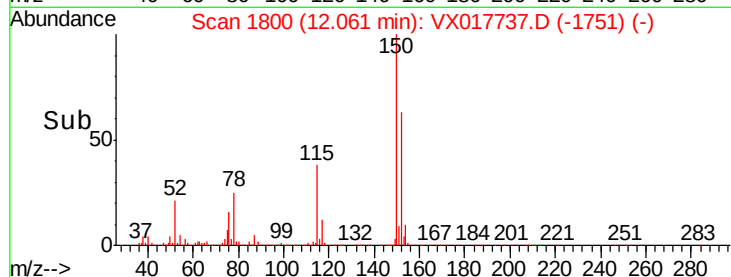
150 154.7 0.0 412.6



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: 23.267 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.16 min

Lab File: VX017737.D

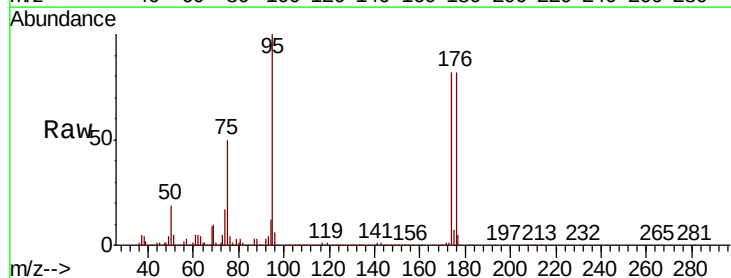
Acq: 01 Aug 2020 05:56

Tgt Ion: 75 Resp: 215209

Ion Ratio Lower Upper

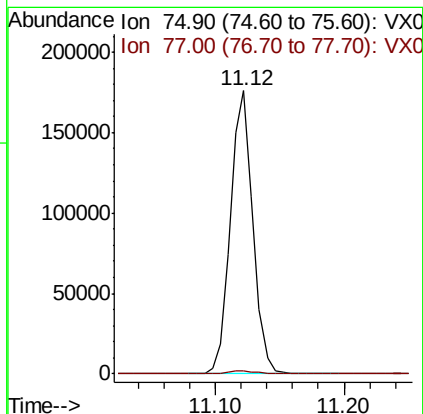
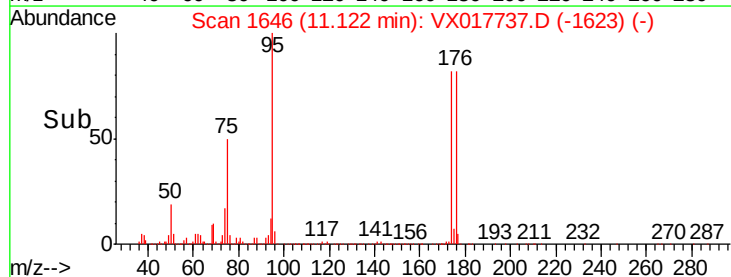
75 100

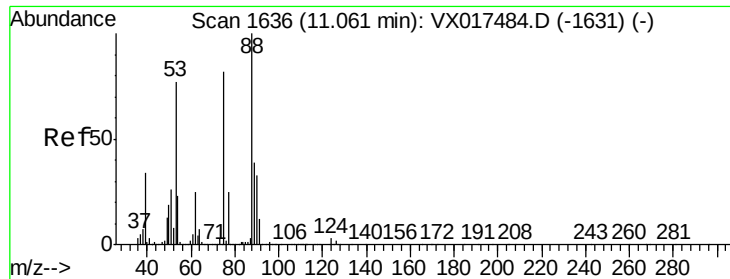
77 1.4 21.8 65.3#



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: 58.629 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.06 min

Lab File: VX017737.D

Acq: 01 Aug 2020 05:56

Instrument :

MSVOA\_X

ClientSampleId :

SP

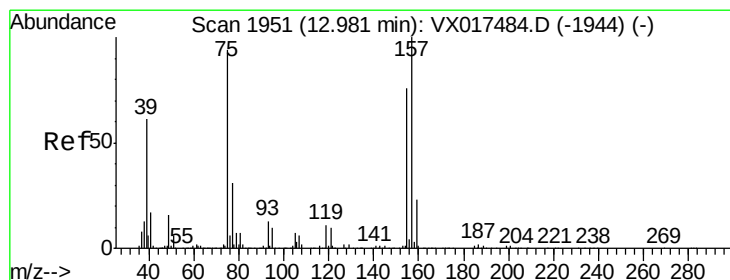
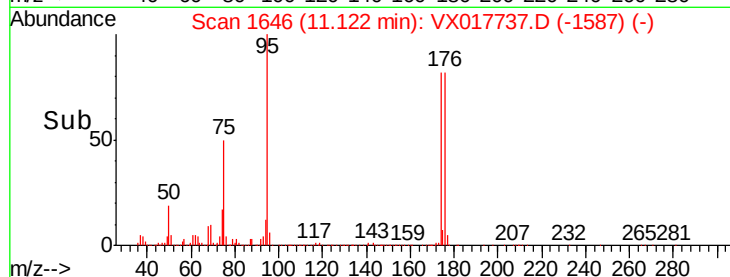
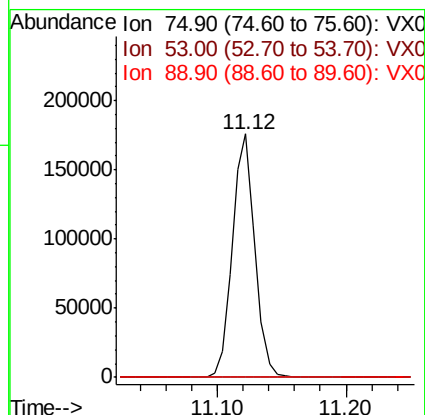
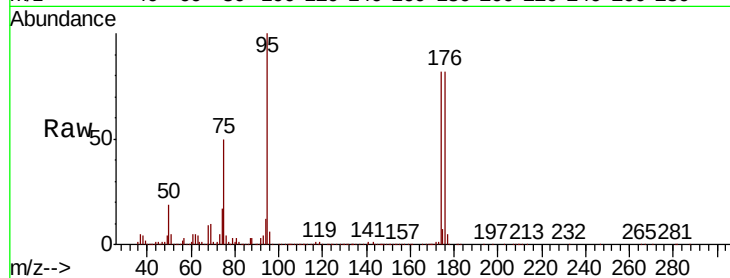
Tot Ion: 75 Resp: 215209

Ion Ratio Lower Upper

75 100

53 0.2 75.9 113.9#

89 0.1 37.8 56.6#



#92

1,2-Dibromo-3-Chloropropane

Concen: 2.726 ug/l

RT: 12.99 min Scan# 1953

Delta R.T. 0.01 min

Lab File: VX017737.D

Acq: 01 Aug 2020 05:56

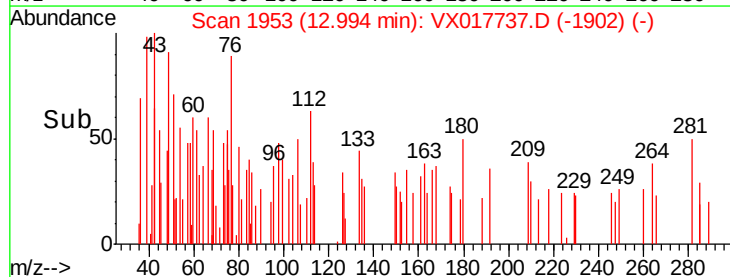
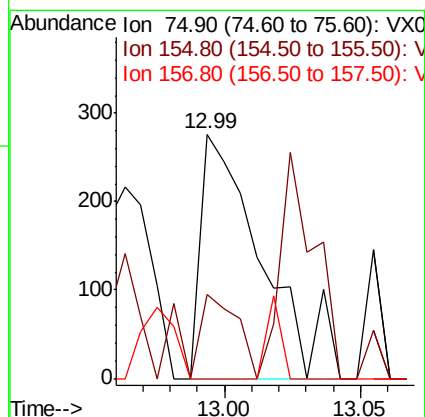
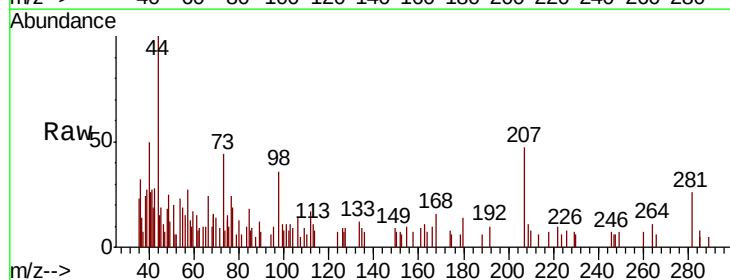
Tgt Ion: 75 Resp: 429

Ion Ratio Lower Upper

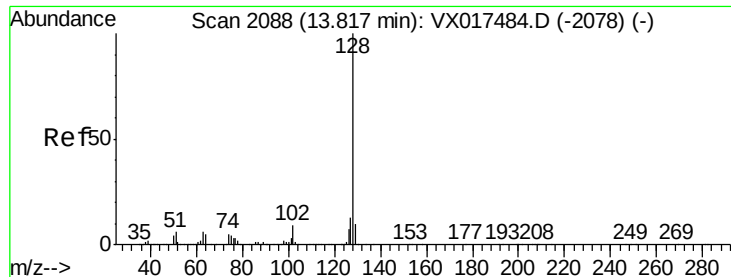
75 100

155 27.7 42.3 126.8#

157 0.0 54.3 162.9#







#95

Naphthalene

Concen: 0.317 ug/l

RT: 13.82 min Scan# 2088

Delta R.T. -0.00 min

Lab File: VX017737.D

Acq: 01 Aug 2020 05:56

Instrument :

MSVOA\_X

ClientSampleId :

SP

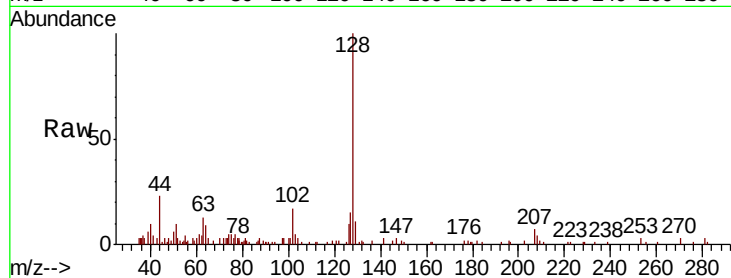
Tot Ion:128 Resp: 9402

Ion Ratio Lower Upper

128 100

127 16.8 10.4 15.6#

129 13.7 8.9 13.3#



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

