

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX110720\  
 Data File : VX019335.D  
 Acq On : 06 Nov 2020 12:44  
 Operator : JC/MD  
 Sample : L4662-01  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 8 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 BP-VPB178-TB-20201104

Quant Time: Nov 07 01:02:10 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X102720W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Oct 27 13:55:07 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.63  | 168  | 295266   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.83  | 114  | 513507   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.10 | 117  | 489618   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.06 | 152  | 247342   | 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   | 203484   | 53.44 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 106.88% |          |
| 35) Dibromofluoromethane    | 5.46  | 113  | 159552   | 49.47 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 98.94%  |          |
| 50) Toluene-d8              | 8.70  | 98   | 629690   | 51.79 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 103.58% |          |
| 62) 4-Bromofluorobenzene    | 11.12 | 95   | 248520   | 53.97 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 107.94% |          |

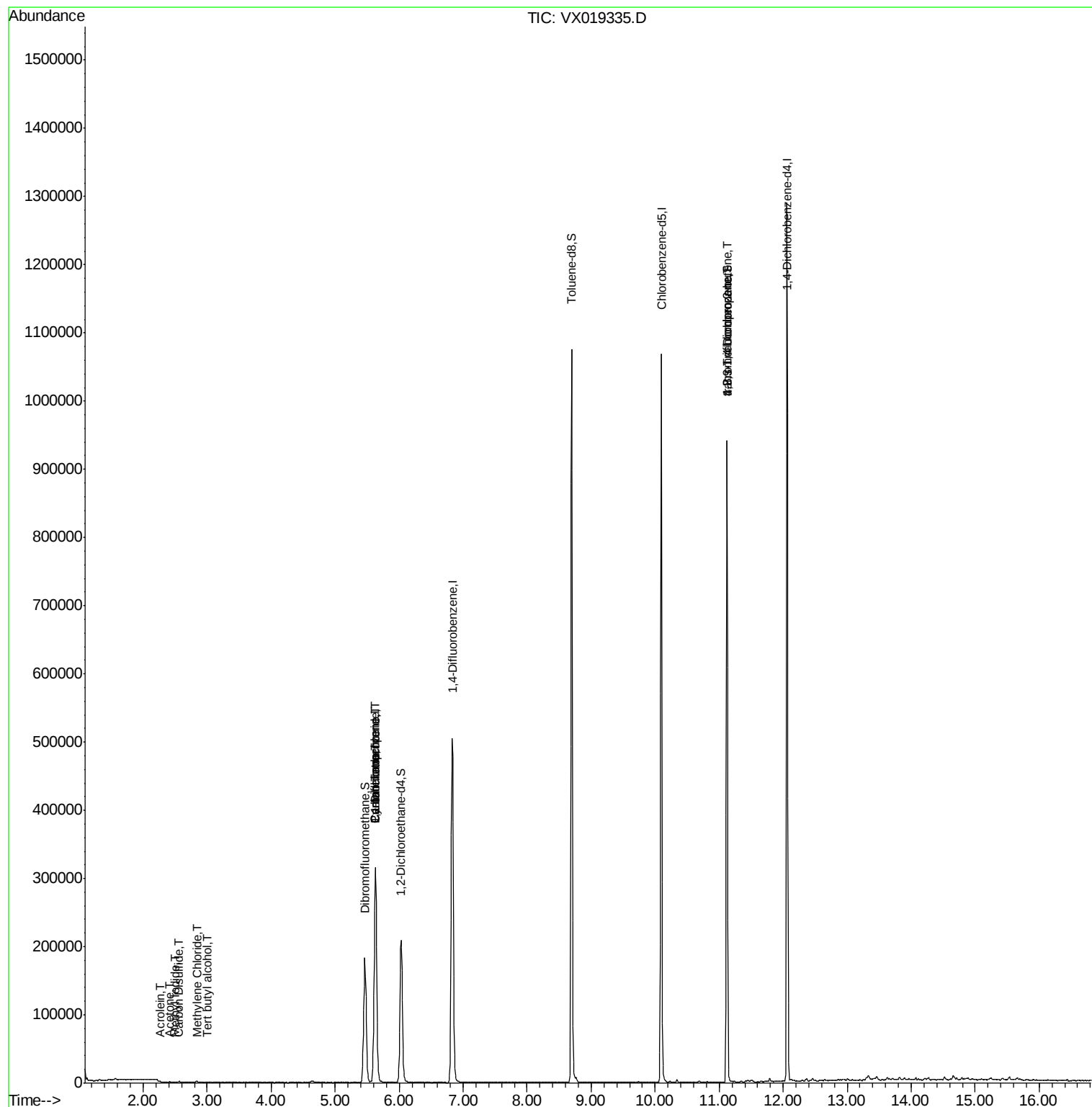
| Target Compounds               | R.T.  | QIon | Response | Conc   | Units  | Qvalue |
|--------------------------------|-------|------|----------|--------|--------|--------|
| 10) Methyl Iodide              | 2.50  | 142  | 246      | 6.444  | ug/l # | 90     |
| 11) Tert butyl alcohol         | 3.00  | 59   | 665      | 0.884  | ug/l # | 72     |
| 13) Acrolein                   | 2.28  | 56   | 116      | 5.985  | ug/l # | 16     |
| 16) Acetone                    | 2.42  | 43   | 956      | 0.728  | ug/l   | 93     |
| 17) Carbon Disulfide           | 2.56  | 76   | 871      | 0.865  | ug/l # | 77     |
| 20) Methylene Chloride         | 2.83  | 84   | 1029     | 0.312  | ug/l # | 84     |
| 31) Cyclohexane                | 5.63  | 56   | 6518     | 1.354  | ug/l # | 14     |
| 36) 1,1-Dichloropropene        | 5.63  | 75   | 24616    | 5.191  | ug/l # | 49     |
| 38) Carbon Tetrachloride       | 5.63  | 117  | 30657    | 6.343  | ug/l # | 16     |
| 76) 1,2,3-Trichloropropane     | 11.12 | 75   | 128567   | 25.174 | ug/l # | 37     |
| 81) trans-1,4-Dichloro-2-buten | 11.12 | 75   | 128567   | 66.283 | ug/l # | 12     |

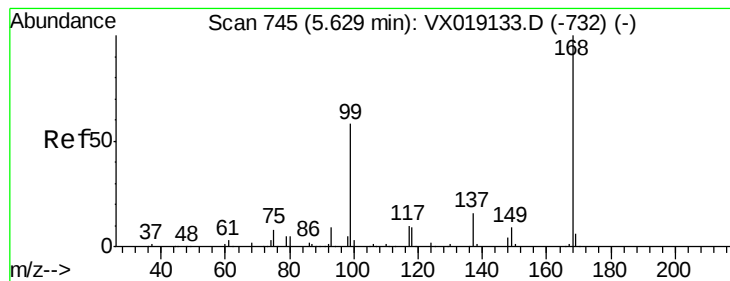
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Tue Oct 27 13:55:07 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: VX019335.D

Acq: 06 Nov 2020 12:44

Instrument :

MSVOA\_X

ClientSampleId :

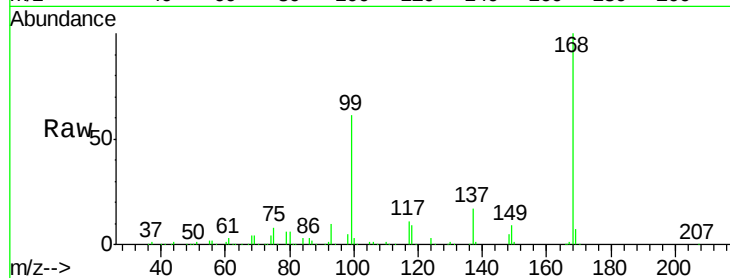
BP-VPB178-TB-20201104

Tot Ion:168 Resp: 295266

Ion Ratio Lower Upper

168 100

99 61.3 46.6 69.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.63

120000

100000

80000

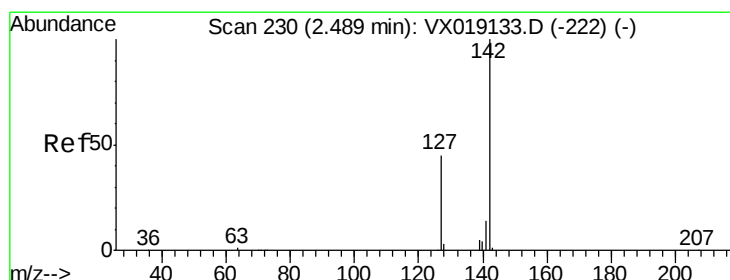
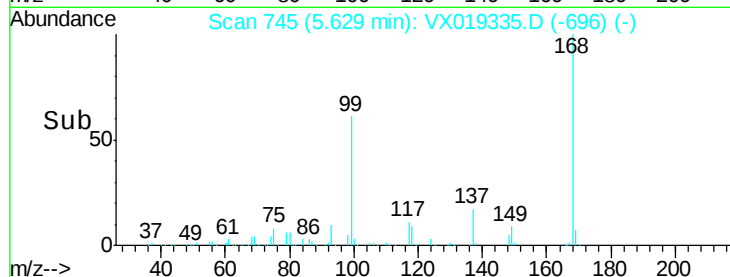
60000

40000

20000

0

Time-->



#10

Methyl Iodide

Concen: 6.444 ug/l

RT: 2.50 min Scan# 231

Delta R.T. 0.01 min

Lab File: VX019335.D

Acq: 06 Nov 2020 12:44

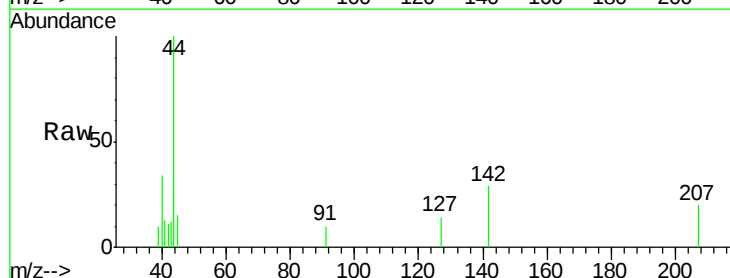
Tgt Ion:142 Resp: 246

Ion Ratio Lower Upper

142 100

127 46.7 36.1 54.1

141 0.0 11.3 16.9#



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

250

200

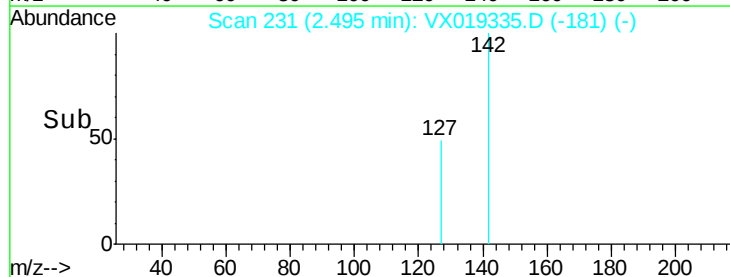
150

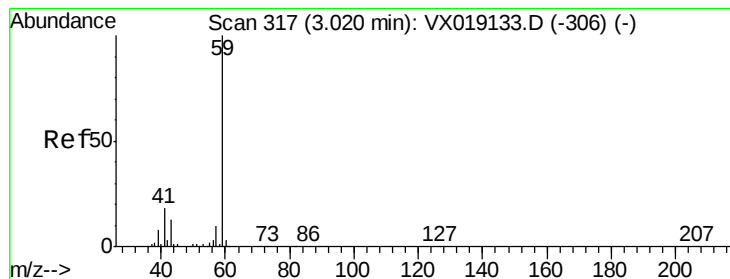
100

50

0

Time-->



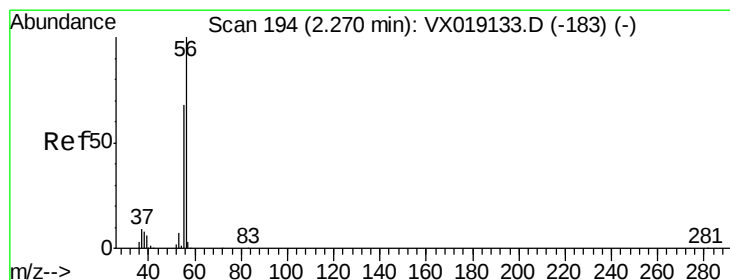
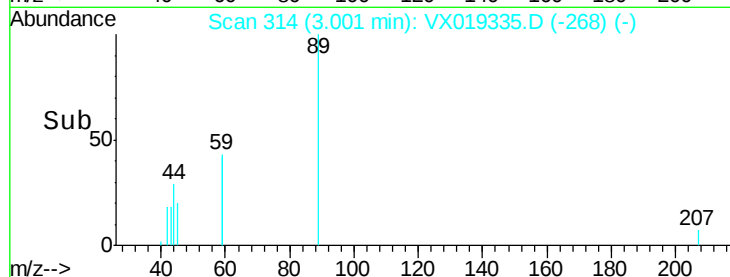
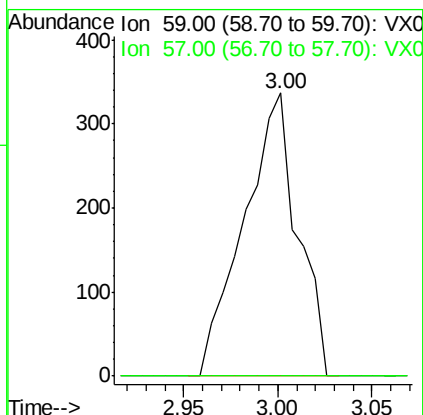
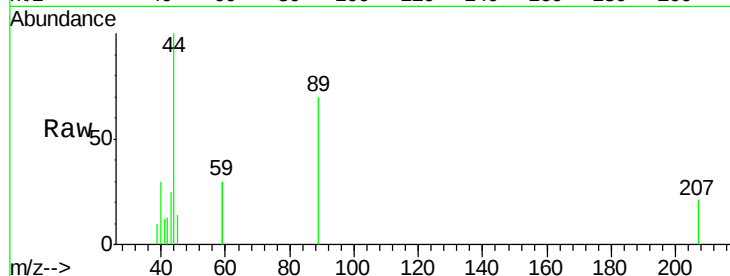


#11

Tert butvl alcohol  
Concen: 0.884 ug/l  
RT: 3.00 min Scan# 314  
Delta R.T. -0.02 min  
Lab File: VX019335.D  
Acq: 06 Nov 2020 12:44

Instrument :  
MSVOA\_X  
ClientSampleId :  
BP-VPB178-TB-20201104

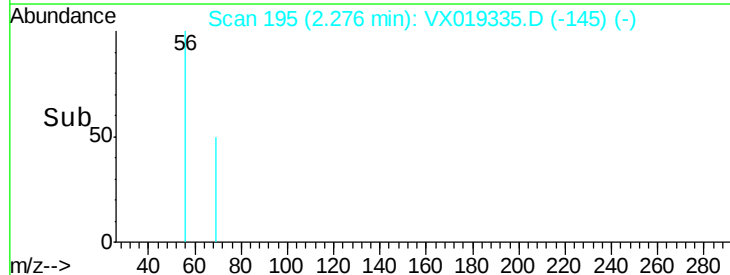
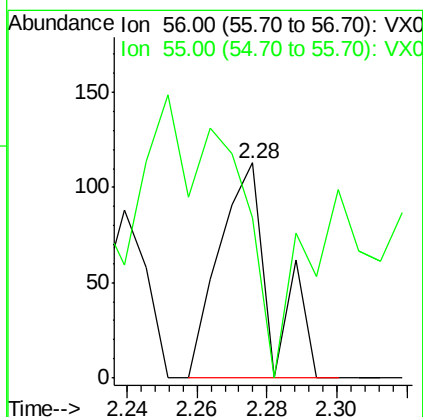
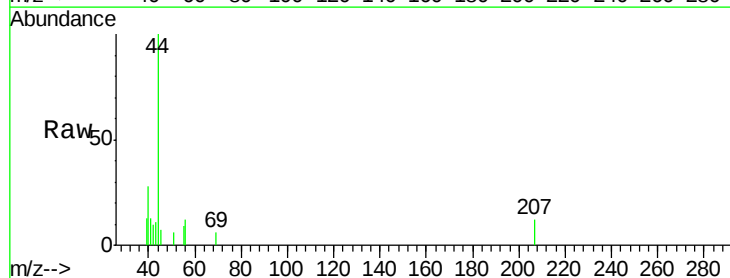
Tot Ion: 59 Resp: 665  
Ion Ratio Lower Upper  
59 100  
57 0.0 8.4 12.6#

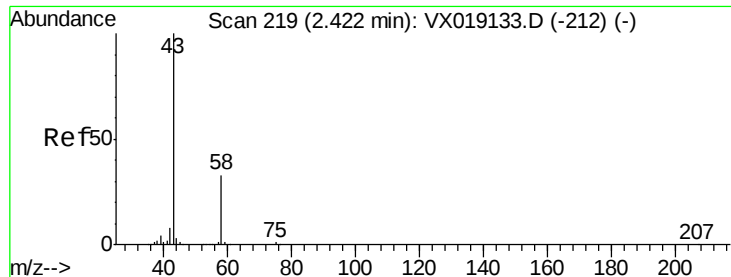


#13

Acrolein  
Concen: 5.985 ug/l  
RT: 2.28 min Scan# 195  
Delta R.T. 0.01 min  
Lab File: VX019335.D  
Acq: 06 Nov 2020 12:44

Tgt Ion: 56 Resp: 116  
Ion Ratio Lower Upper  
56 100  
55 0.0 54.7 82.1#





#16

Acetone

Concen: 0.728 ug/l

RT: 2.42 min Scan# 218

Delta R.T. -0.01 min

Lab File: VX019335.D

Acq: 06 Nov 2020 12:44

Instrument :

MSVOA\_X

ClientSampleId :

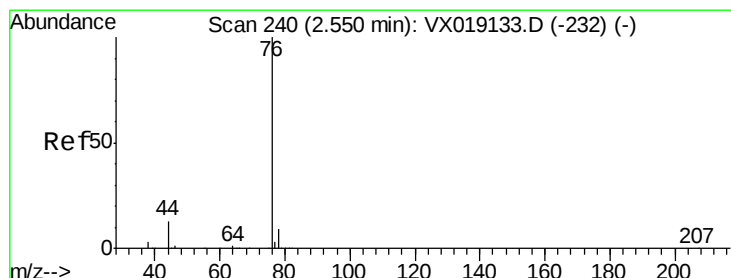
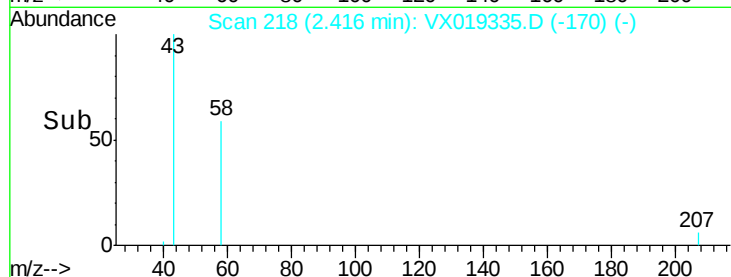
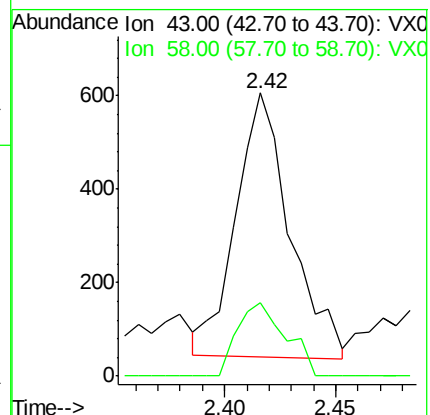
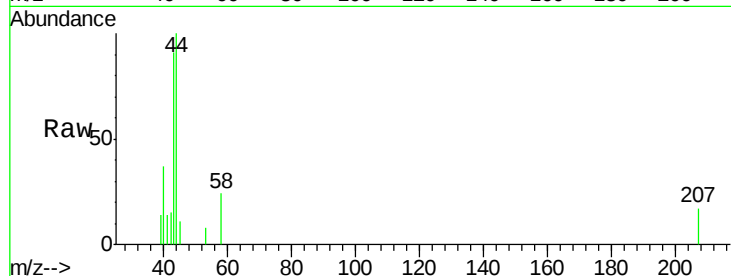
BP-VPB178-TB-20201104

Tot Ion: 43 Resp: 956

Ion Ratio Lower Upper

43 100

58 28.9 26.3 39.5



#17

Carbon Disulfide

Concen: 0.865 ug/l

RT: 2.56 min Scan# 241

Delta R.T. 0.01 min

Lab File: VX019335.D

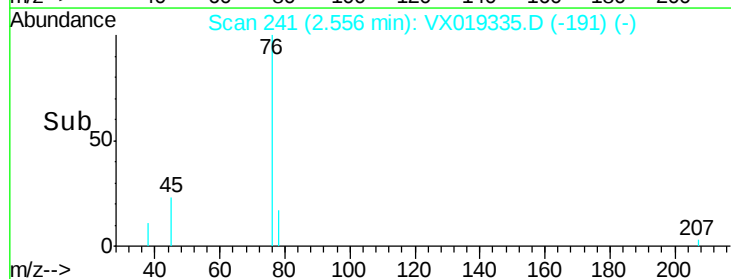
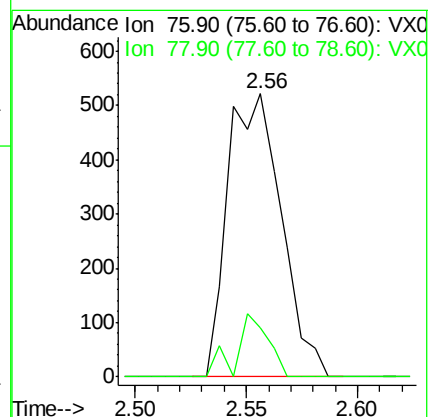
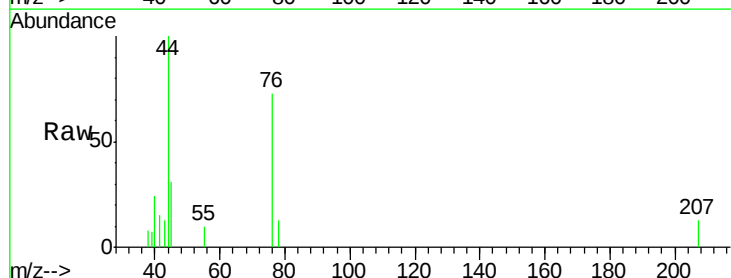
Acq: 06 Nov 2020 12:44

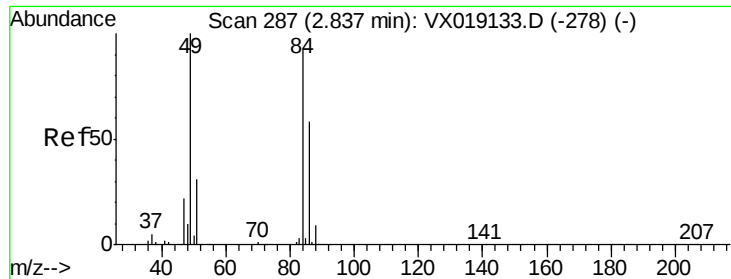
Tgt Ion: 76 Resp: 871

Ion Ratio Lower Upper

76 100

78 17.4 7.3 10.9#

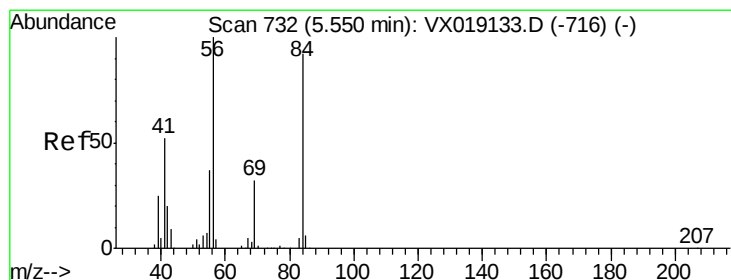
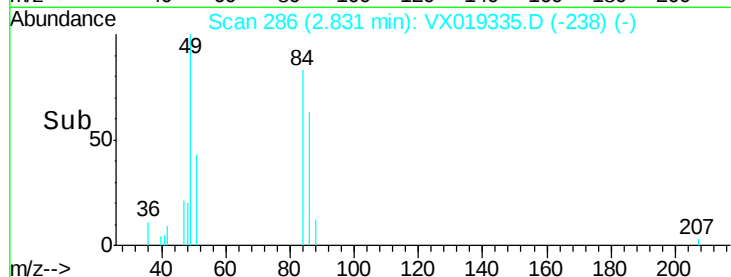
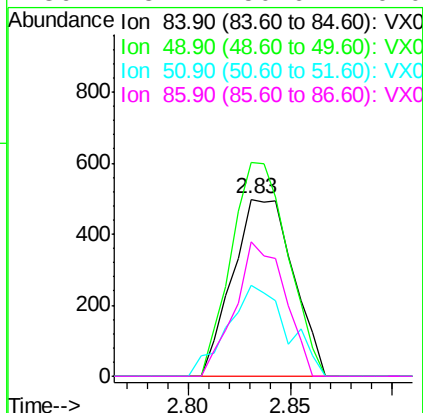
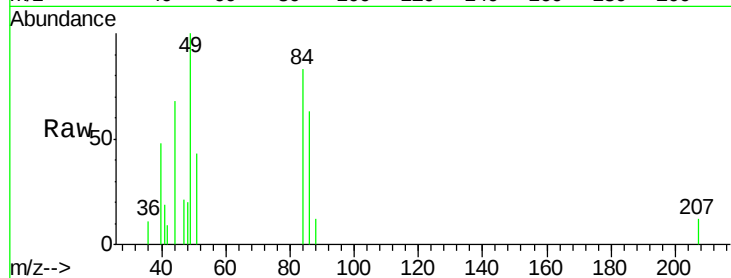




#20  
Methvlene Chloride  
Concen: 0.312 ug/l  
RT: 2.83 min Scan# 286  
Delta R.T. -0.01 min  
Lab File: VX019335.D  
Acq: 06 Nov 2020 12:44

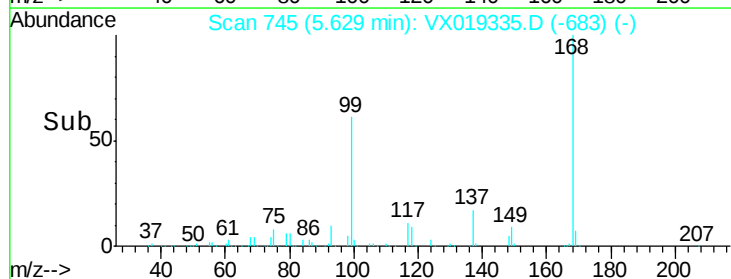
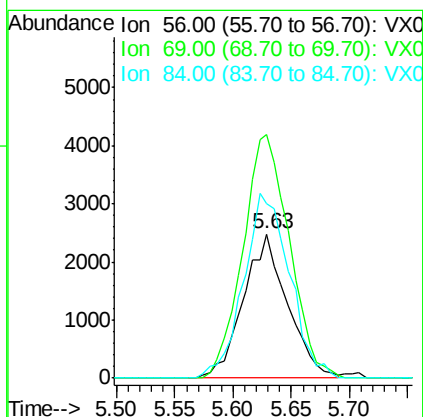
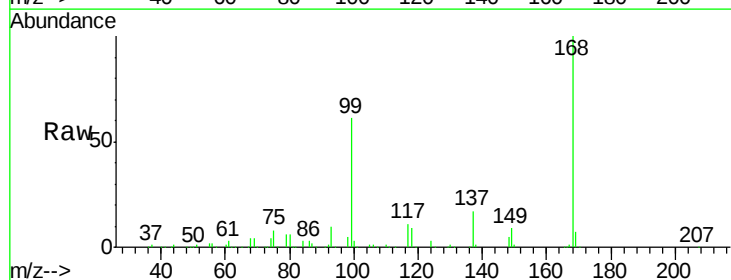
Instrument :  
MSVOA\_X  
ClientSampleId :  
BP-VPB178-TB-20201104

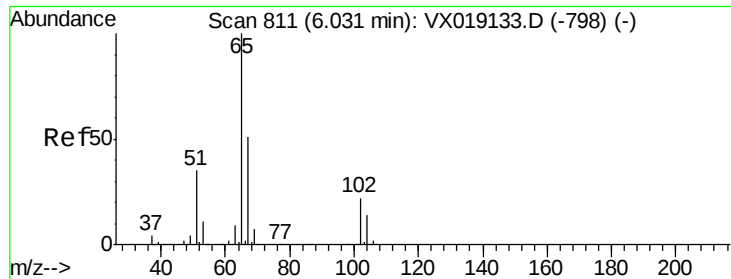
|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 84    | Resp: | 1029  |
| Ion      | Ratio | Lower | Upper |
| 84       | 100   |       |       |
| 49       | 120.7 | 86.8  | 130.2 |
| 51       | 51.6  | 27.3  | 40.9# |
| 86       | 75.7  | 50.6  | 76.0  |



#31  
Cyclohexane  
Concen: 1.354 ug/l  
RT: 5.63 min Scan# 745  
Delta R.T. 0.08 min  
Lab File: VX019335.D  
Acq: 06 Nov 2020 12:44

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 56    | Resp: | 6518   |
| Ion      | Ratio | Lower | Upper  |
| 56       | 100   |       |        |
| 69       | 169.0 | 25.9  | 38.9#  |
| 84       | 121.4 | 73.4  | 110.2# |





#33

1,2-Dichloroethane-d4

Concen: 53.438 ug/l

RT: 6.03 min Scan# 811

Delta R.T. -0.00 min

Lab File: VX019335.D

Acq: 06 Nov 2020 12:44

Instrument :

MSVOA\_X

ClientSampleId :

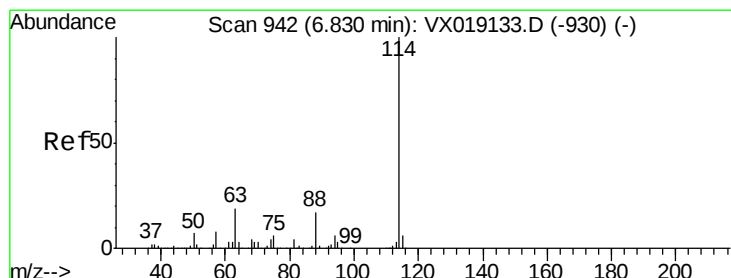
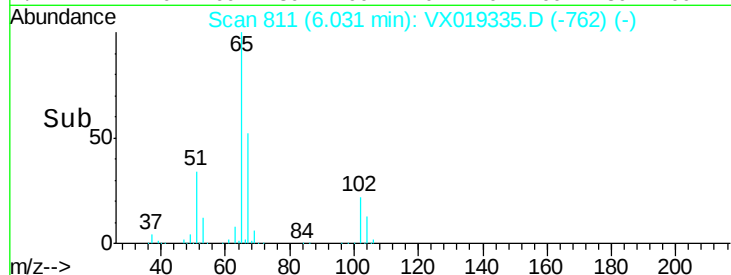
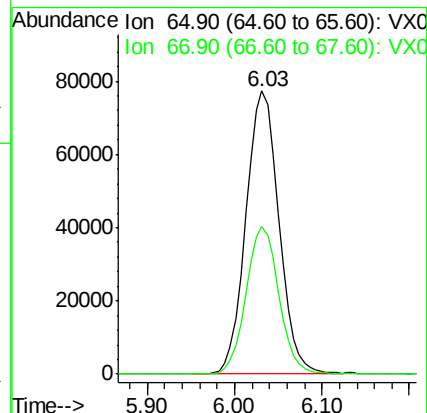
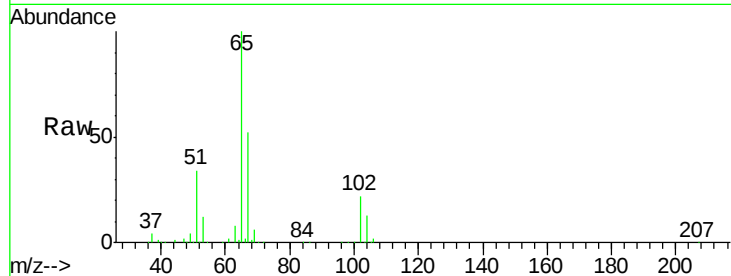
BP-VPB178-TB-20201104

Tot Ion: 65 Resp: 203484

Ion Ratio Lower Upper

65 100

67 51.9 0.0 103.0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.83 min Scan# 942

Delta R.T. -0.00 min

Lab File: VX019335.D

Acq: 06 Nov 2020 12:44

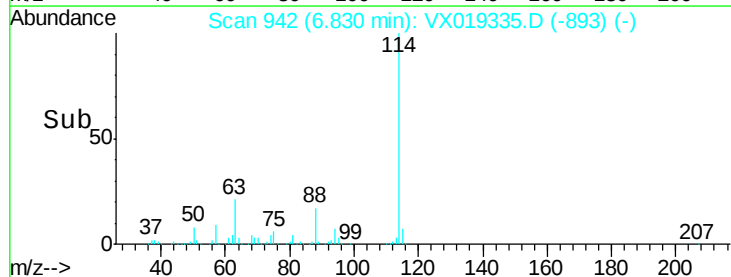
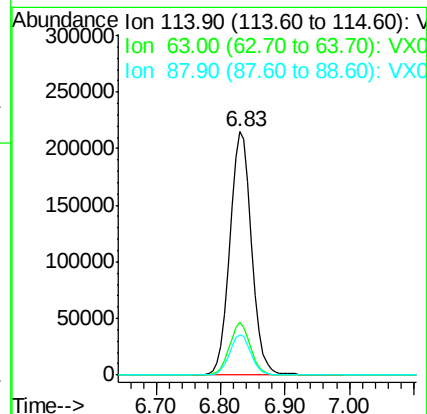
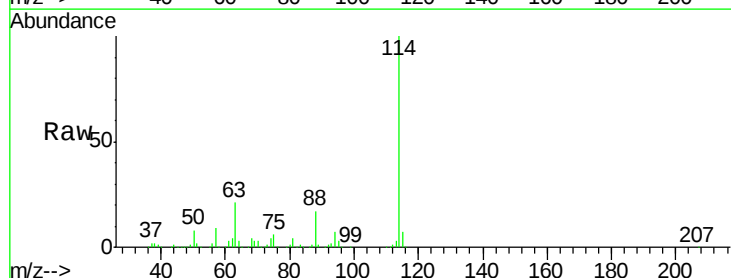
Tgt Ion: 114 Resp: 513507

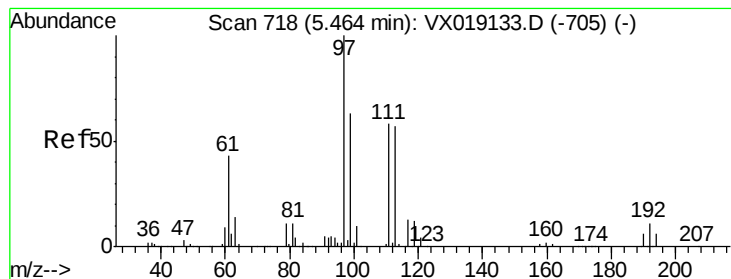
Ion Ratio Lower Upper

114 100

63 21.5 0.0 38.8

88 16.6 0.0 34.2





#35

Dibromofluoromethane

Concen: 49.465 ug/l

RT: 5.46 min Scan# 718

Delta R.T. -0.00 min

Lab File: VX019335.D

Acq: 06 Nov 2020 12:44

Instrument :

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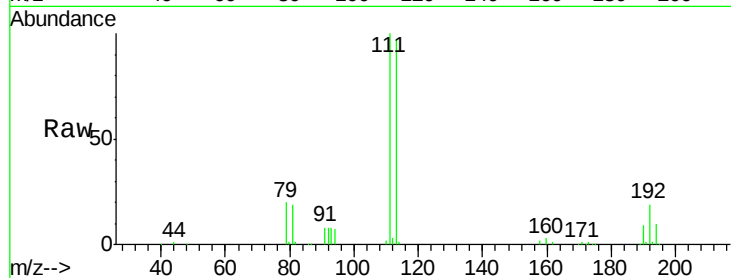
Tot Ion:113 Resp: 159552

Ion Ratio Lower Upper

113 100

111 102.3 82.3 123.5

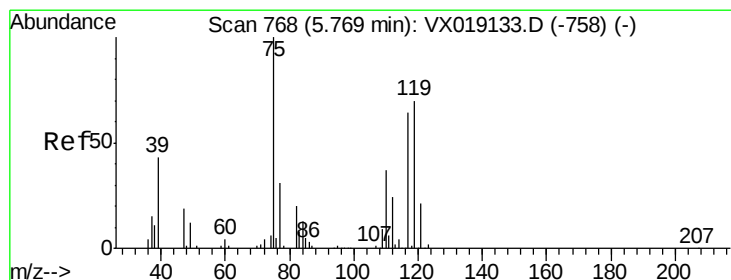
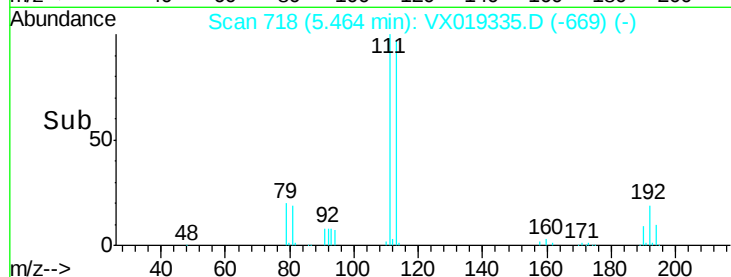
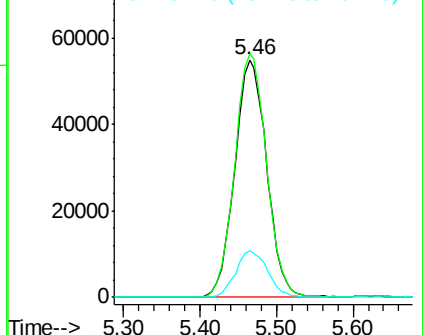
192 19.5 16.2 24.2



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: 5.191 ug/l

RT: 5.63 min Scan# 745

Delta R.T. -0.14 min

Lab File: VX019335.D

Acq: 06 Nov 2020 12:44

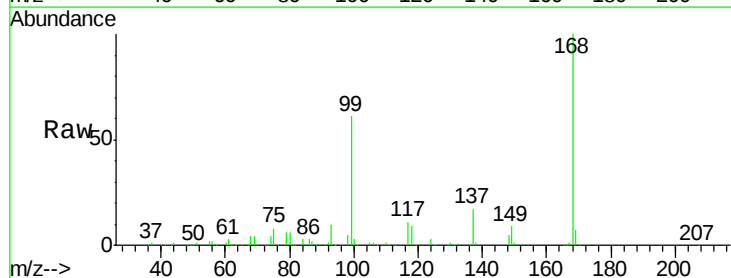
Tgt Ion: 75 Resp: 24616

Ion Ratio Lower Upper

75 100

110 8.6 18.3 54.9#

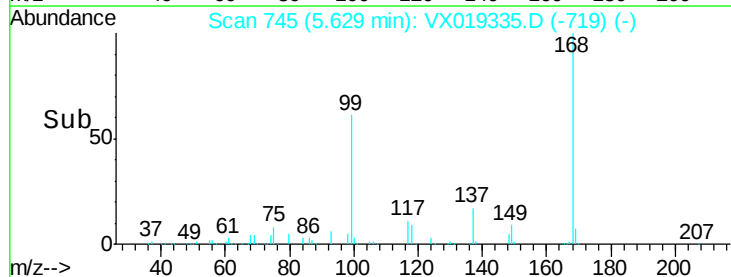
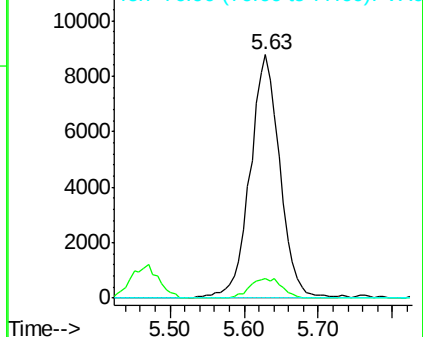
77 0.0 24.9 37.3#

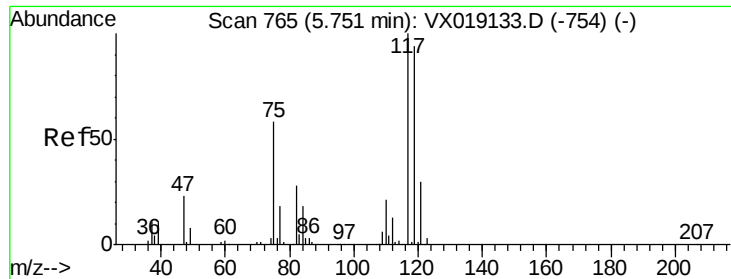


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0





#38

Carbon Tetrachloride

Concen: 6.343 ug/l

RT: 5.63 min Scan# 745

Delta R.T. -0.12 min

Lab File: VX019335.D

Acq: 06 Nov 2020 12:44

Instrument :

MSVOA\_X

ClientSampleId :

BP-VPB178-TB-20201104

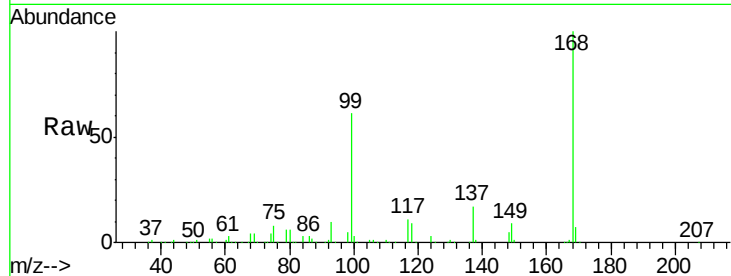
Tot Ion:117 Resp: 30657

Ion Ratio Lower Upper

117 100

119 3.9 75.0 112.6#

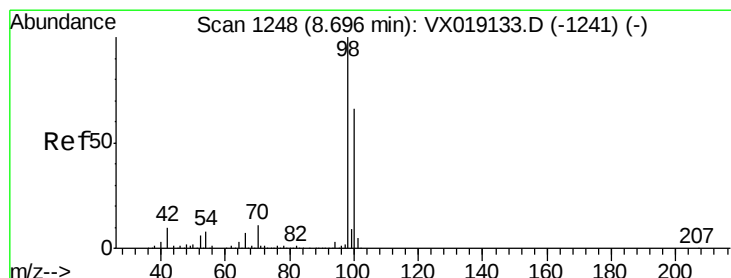
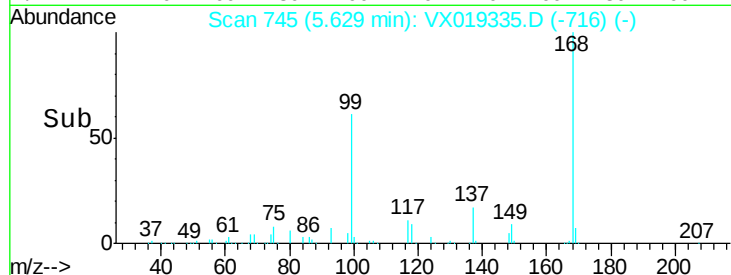
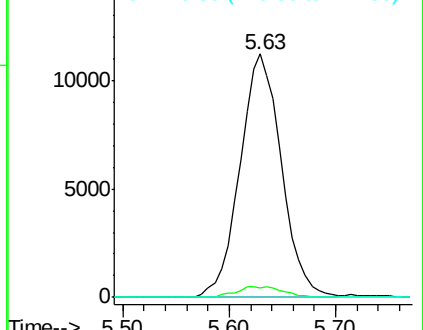
121 0.0 23.9 35.9#



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



#50

Toluene-d8

Concen: 51.788 ug/l

RT: 8.70 min Scan# 1248

Delta R.T. -0.00 min

Lab File: VX019335.D

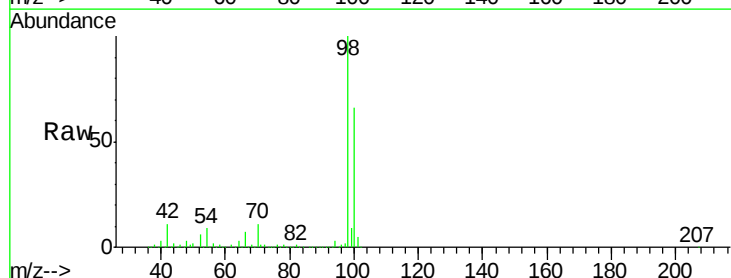
Acq: 06 Nov 2020 12:44

Tgt Ion: 98 Resp: 629690

Ion Ratio Lower Upper

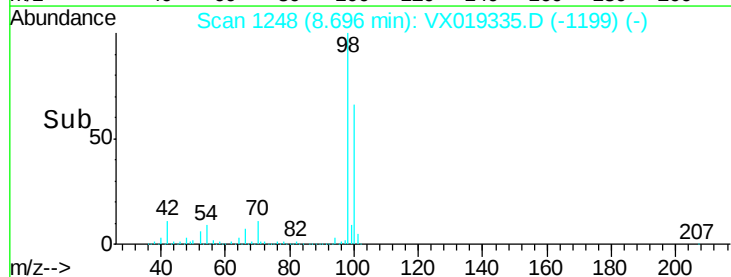
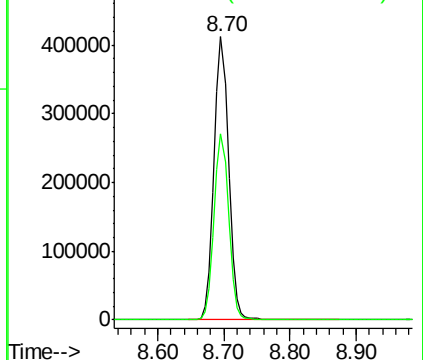
98 100

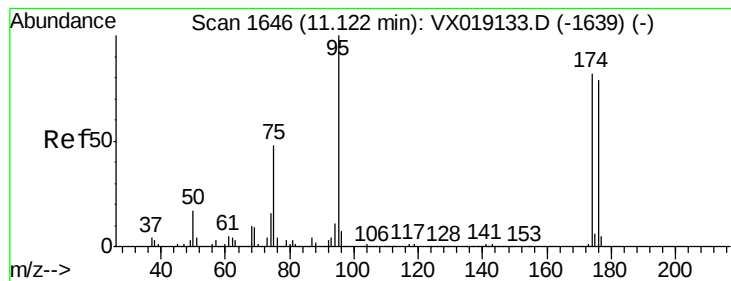
100 65.7 53.0 79.6



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V





#62

4-Bromofluorobenzene

Concen: 53.971 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.00 min

Lab File: VX019335.D

Acq: 06 Nov 2020 12:44

Instrument :

MSVOA\_X

ClientSampleId :

BP-VPB178-TB-20201104

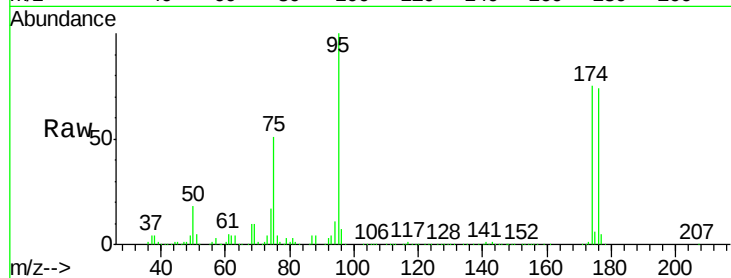
Tot Ion: 95 Resp: 248520

Ion Ratio Lower Upper

95 100

174 74.0 0.0 156.0

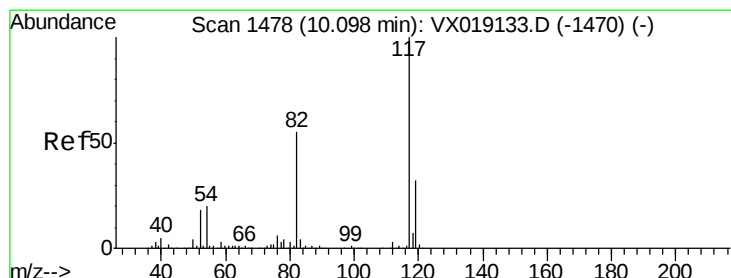
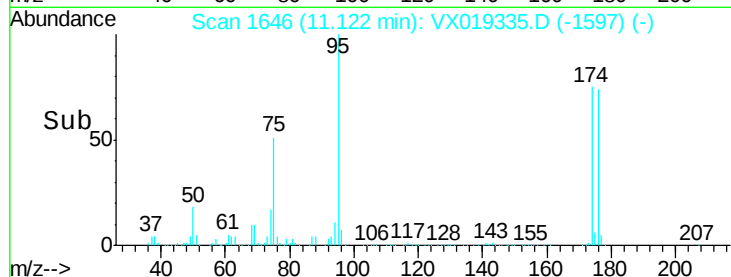
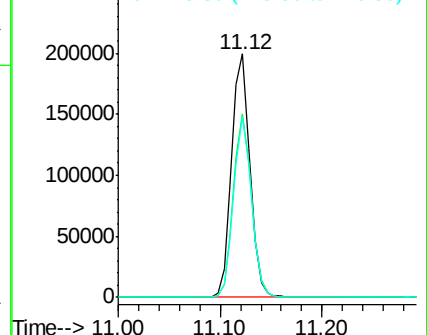
176 72.3 0.0 149.8



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: 10.10 min Scan# 1478

Delta R.T. -0.00 min

Lab File: VX019335.D

Acq: 06 Nov 2020 12:44

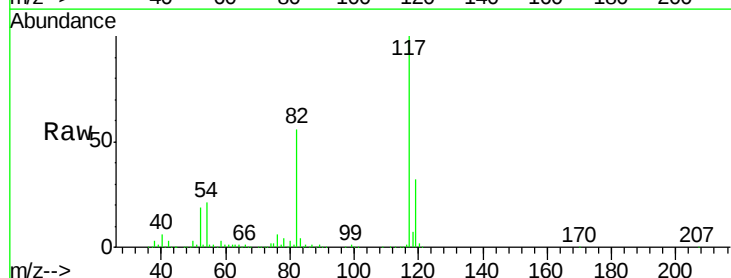
Tgt Ion: 117 Resp: 489618

Ion Ratio Lower Upper

117 100

82 56.2 43.6 65.4

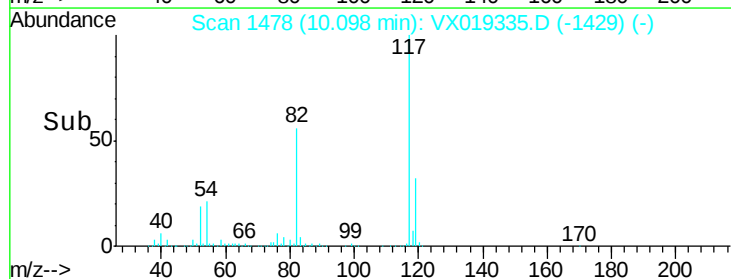
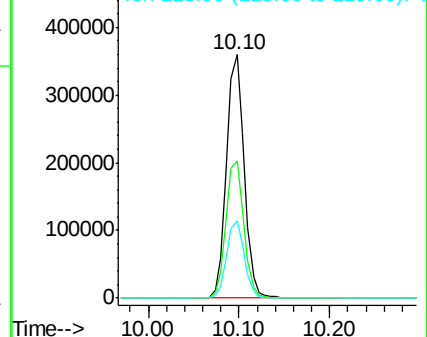
119 31.9 25.5 38.3

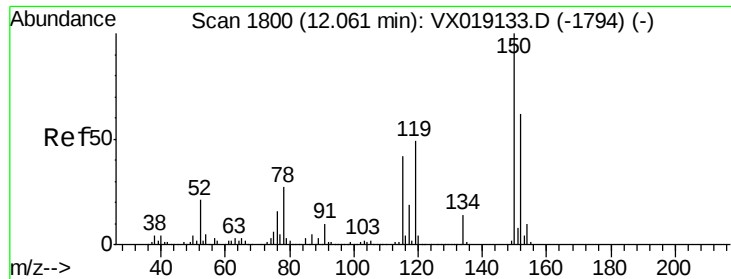


Abundance Ion 116.90 (116.60 to 117.60): V

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: VX019335.D

Acq: 06 Nov 2020 12:44

Instrument :

MSVOA\_X

ClientSampleId :

BP-VPB178-TB-20201104

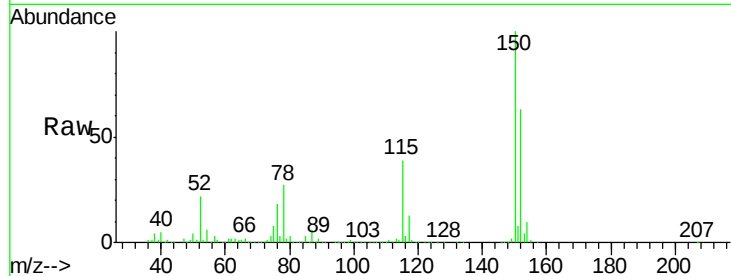
Tot Ion:152 Resp: 247342

Ion Ratio Lower Upper

152 100

115 61.4 41.9 125.7

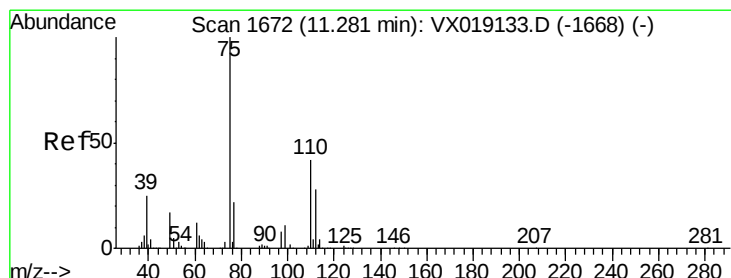
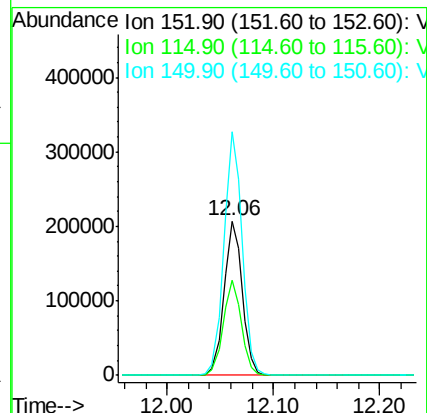
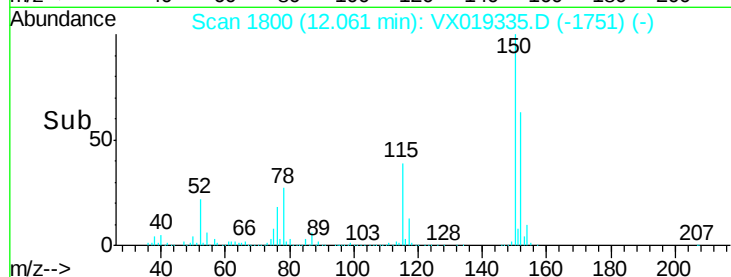
150 157.7 0.0 347.8



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: 25.174 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.16 min

Lab File: VX019335.D

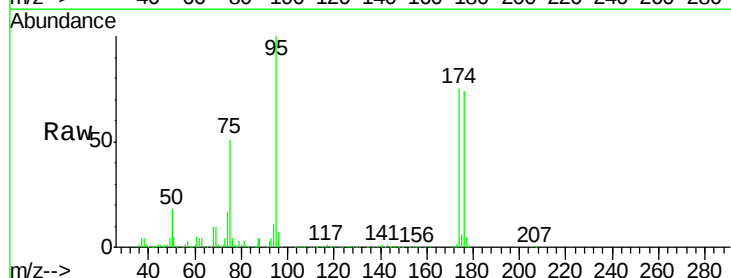
Acq: 06 Nov 2020 12:44

Tgt Ion: 75 Resp: 128567

Ion Ratio Lower Upper

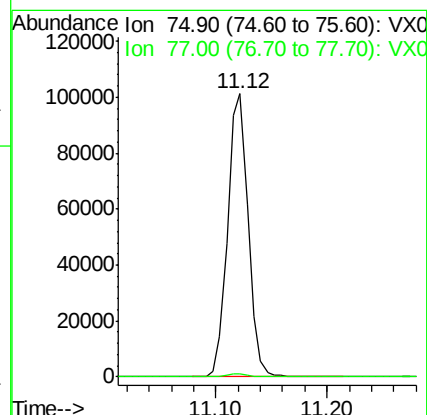
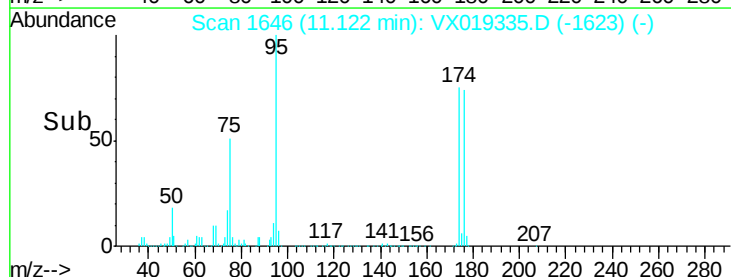
75 100

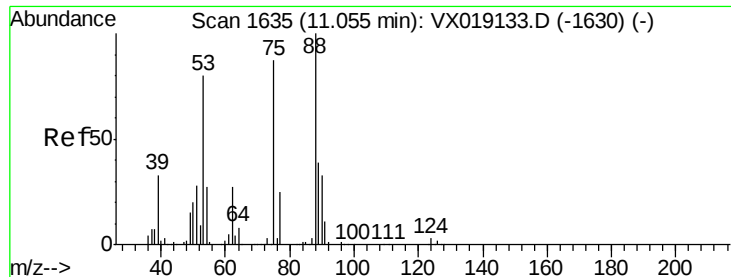
77 1.2 20.3 60.9#



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: 66.283 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.07 min

Lab File: VX019335.D

Acq: 06 Nov 2020 12:44

Instrument :

MSVOA\_X

ClientSampleId :

BP-VPB178-TB-20201104

Tot Ion: 75 Resp: 128567

Ion Ratio Lower Upper

75 100

53 0.0 73.3 109.9#

89 0.0 38.2 57.2#

