

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_X\DATA\VX121720\  
 Data File : VX020079.D  
 Acq On : 16 Dec 2020 20:36  
 Operator : JC/MD  
 Sample : L5097-01  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 16 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 ID039-39MWE10-120720

Quant Time: Dec 17 00:33:11 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X120420W.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Dec 04 15:32:53 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.63  | 168  | 284715   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.83  | 114  | 478950   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.10 | 117  | 447744   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.06 | 152  | 190393   | 50.00 | ug/l  | 0.00     |

## System Monitoring Compounds

|                           |                |     |            |         |      |      |
|---------------------------|----------------|-----|------------|---------|------|------|
| 33) 1,2-Dichloroethane-d4 | 6.03           | 65  | 187528     | 50.11   | ug/l | 0.00 |
| Spiked Amount 50.000      | Range 61 - 141 |     | Recovery = | 100.22% |      |      |
| 35) Dibromofluoromethane  | 5.46           | 113 | 151245     | 48.86   | ug/l | 0.00 |
| Spiked Amount 50.000      | Range 69 - 133 |     | Recovery = | 97.72%  |      |      |
| 50) Toluene-d8            | 8.70           | 98  | 583621     | 49.39   | ug/l | 0.00 |
| Spiked Amount 50.000      | Range 65 - 126 |     | Recovery = | 98.78%  |      |      |
| 62) 4-Bromofluorobenzene  | 11.12          | 95  | 206417     | 45.89   | ug/l | 0.00 |
| Spiked Amount 50.000      | Range 58 - 135 |     | Recovery = | 91.78%  |      |      |

## Target Compounds

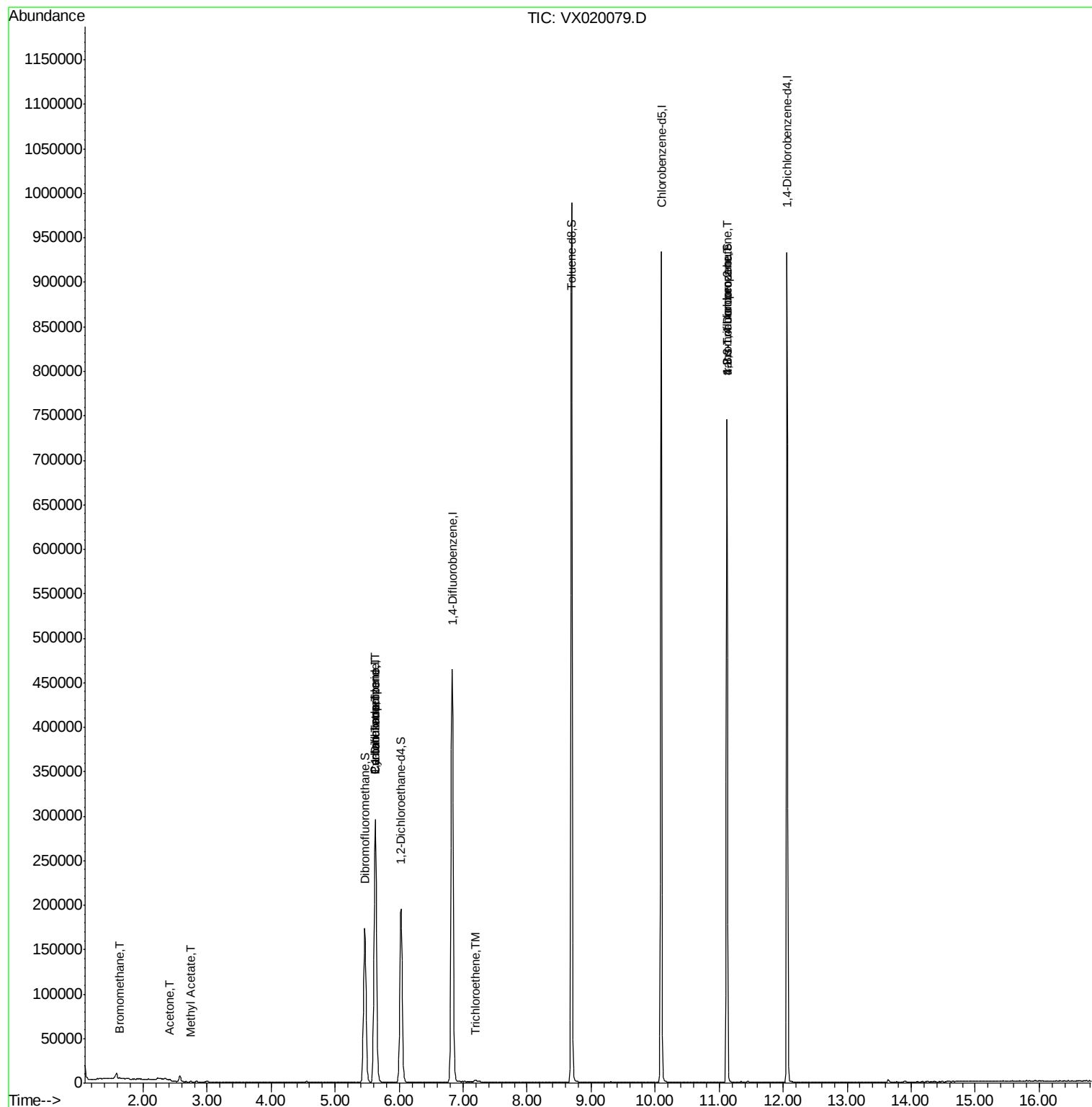
|                                |       |     |       |           | Qvalue |    |
|--------------------------------|-------|-----|-------|-----------|--------|----|
| 5) Bromomethane                | 1.63  | 94  | 554   | 0.516     | ug/l # | 70 |
| 11) Tert butyl alcohol         | 3.00  | 59  | 819   | Below Cal | #      | 73 |
| 16) Acetone                    | 2.42  | 43  | 1928  | 1.371     | ug/l   | 97 |
| 18) Methyl Acetate             | 2.74  | 43  | 907   | 0.264     | ug/l # | 68 |
| 20) Methylene Chloride         | 2.83  | 84  | 312   | Below Cal | #      | 85 |
| 31) Cyclohexane                | 5.62  | 56  | 5606  | 1.204     | ug/l # | 1  |
| 36) 1,1-Dichloropropene        | 5.62  | 75  | 21971 | 5.077     | ug/l # | 49 |
| 38) Carbon Tetrachloride       | 5.63  | 117 | 27944 | 6.593     | ug/l # | 17 |
| 44) Trichloroethene            | 7.19  | 130 | 837   | 0.241     | ug/l   | 93 |
| 76) 1,2,3-Trichloropropane     | 11.12 | 75  | 98515 | 23.070    | ug/l # | 39 |
| 81) trans-1,4-Dichloro-2-buten | 11.12 | 75  | 98515 | 66.692    | ug/l # | 12 |

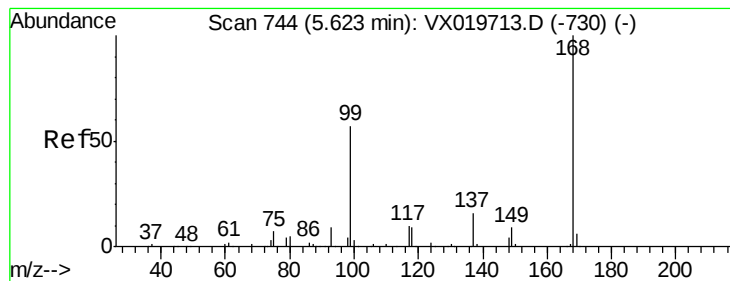
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA\_X\DATA\VX121720\  
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Instrument :  
MSVOA\_X  
ClientSampleId :  
ID039-39MWE10-120720

Quant Time: Dec 17 00:33:11 2020  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_X\METHOD\82X120420W.M  
Quant Title : SW846 8260  
QLast Update : Fri Dec 04 15:32:53 2020  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.63 min Scan# 745

Delta R.T. 0.01 min

Lab File: VX020079.D

Acq: 16 Dec 2020 20:36

Instrument :

MSVOA\_X

ClientSampleId :

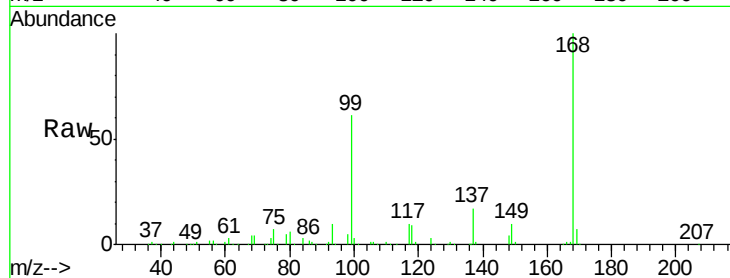
ID039-39MWE10-120720

Tgt Ion:168 Resp: 284715

Ion Ratio Lower Upper

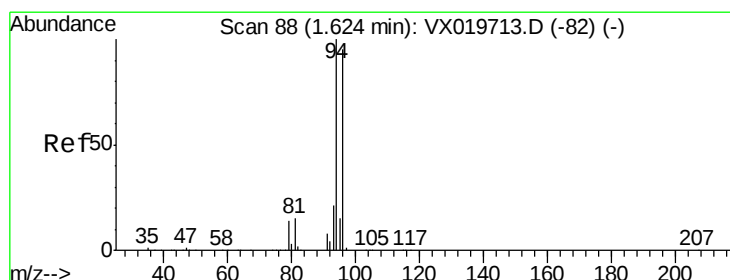
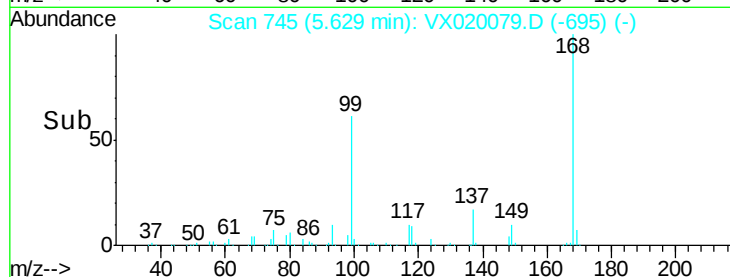
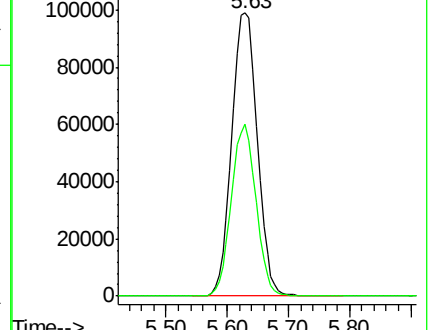
168 100

99 60.9 45.8 68.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#5

Bromomethane

Concen: 0.516 ug/l

RT: 1.63 min Scan# 89

Delta R.T. 0.01 min

Lab File: VX020079.D

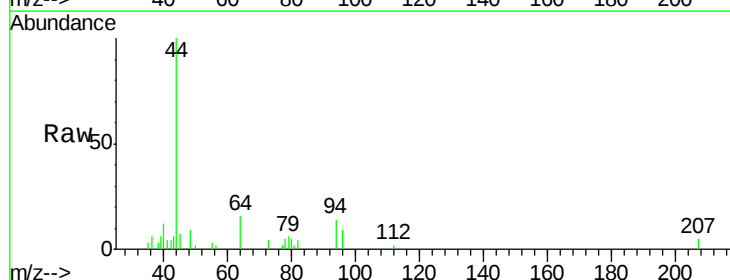
Acq: 16 Dec 2020 20:36

Tgt Ion: 94 Resp: 554

Ion Ratio Lower Upper

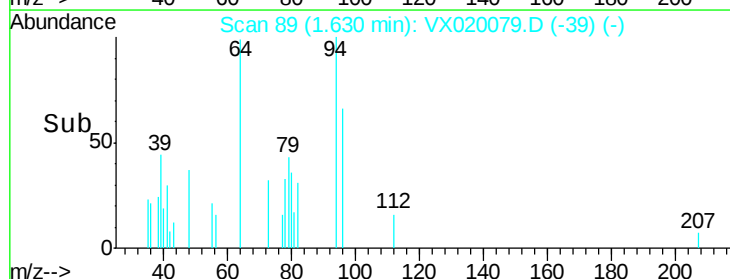
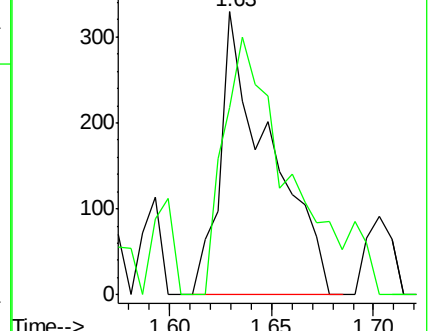
94 100

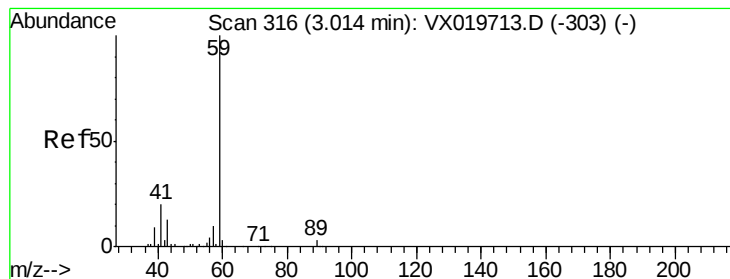
96 66.3 76.4 114.6#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0



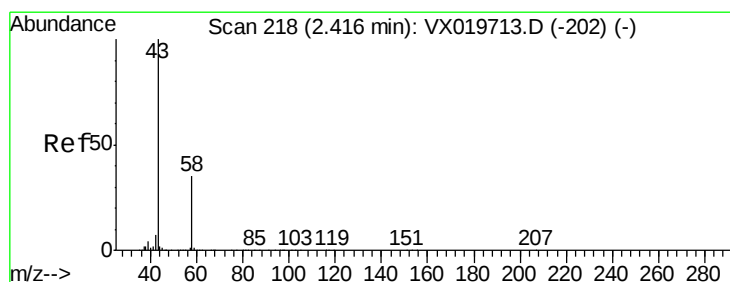
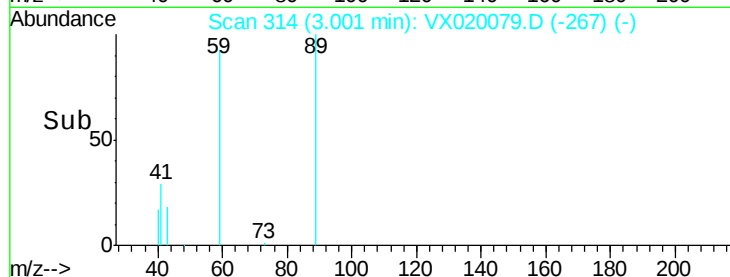
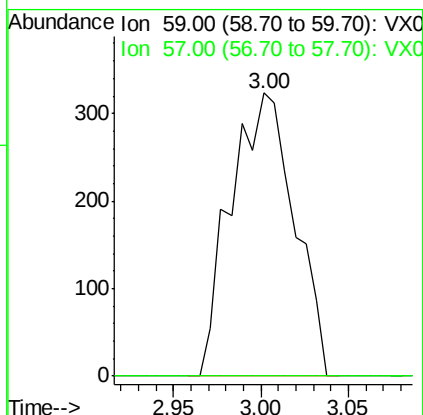
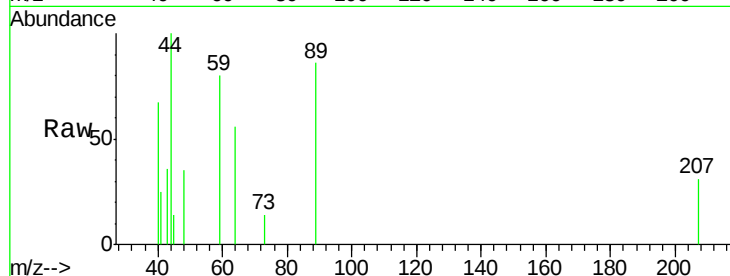


#11

Tert butyl alcohol  
Concen: Below Cal  
RT: 3.00 min Scan# 314  
Delta R.T. -0.01 min  
Lab File: VX020079.D  
Acq: 16 Dec 2020 20:36

Instrument :  
MSVOA\_X  
ClientSampleId :  
ID039-39MWE10-120720

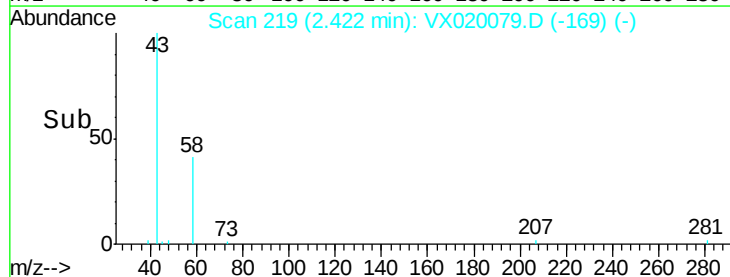
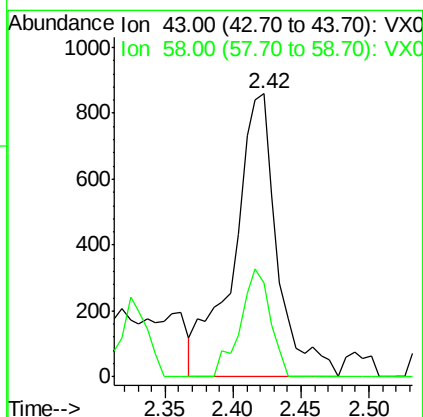
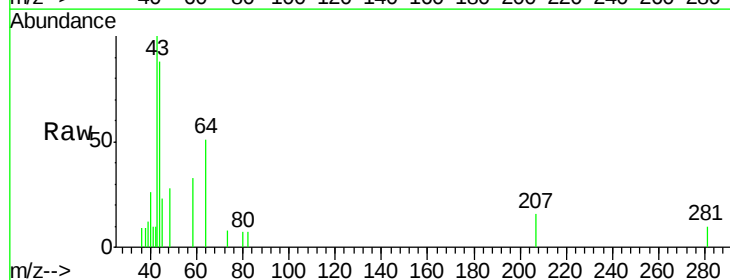
Tgt Ion: 59 Resp: 819  
Ion Ratio Lower Upper  
59 100  
57 0.0 7.8 11.8#

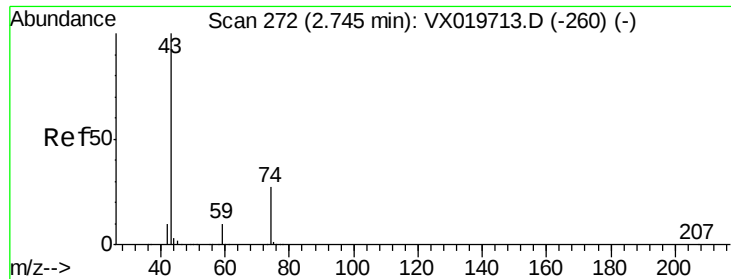


#16

Acetone  
Concen: 1.371 ug/l  
RT: 2.42 min Scan# 219  
Delta R.T. 0.01 min  
Lab File: VX020079.D  
Acq: 16 Dec 2020 20:36

Tgt Ion: 43 Resp: 1928  
Ion Ratio Lower Upper  
43 100  
58 33.2 27.8 41.8

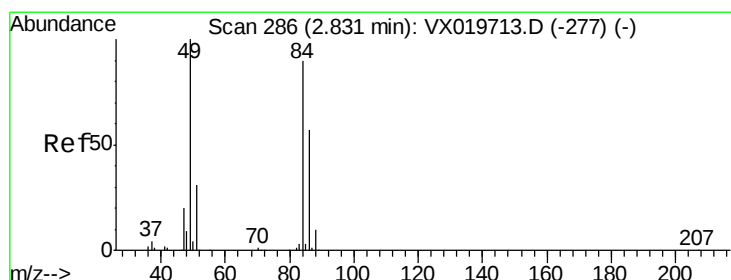
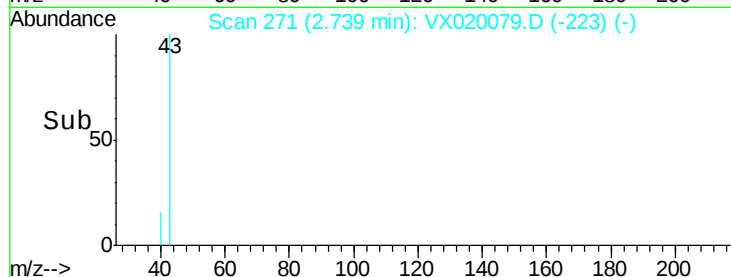
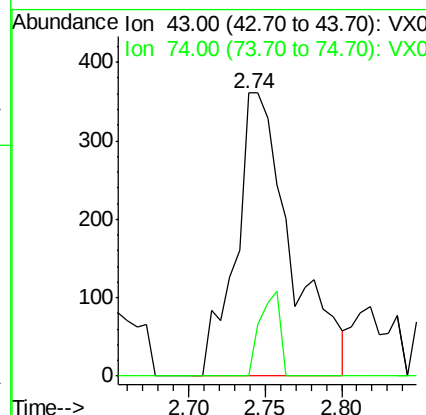
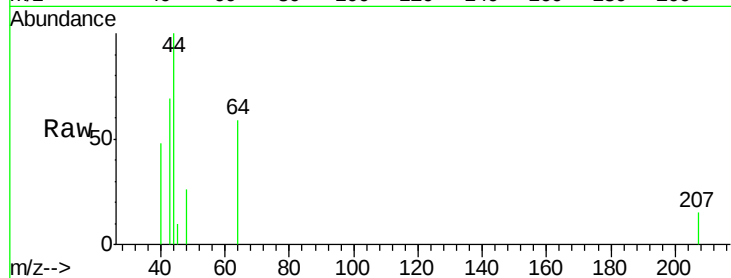




#18  
Methyl Acetate  
Concen: 0.264 ug/l  
RT: 2.74 min Scan# 271  
Delta R.T. -0.01 min  
Lab File: VX020079.D  
Acq: 16 Dec 2020 20:36

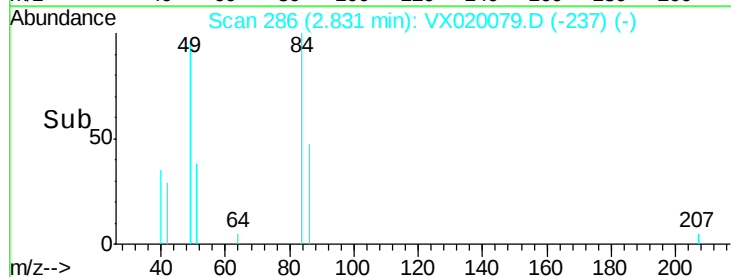
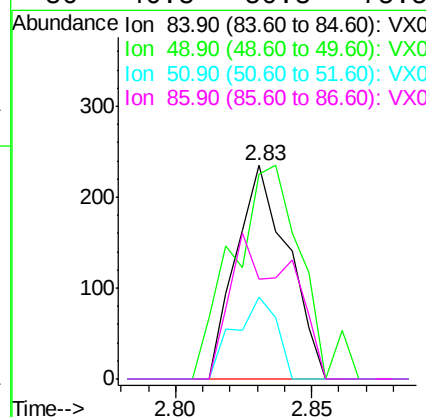
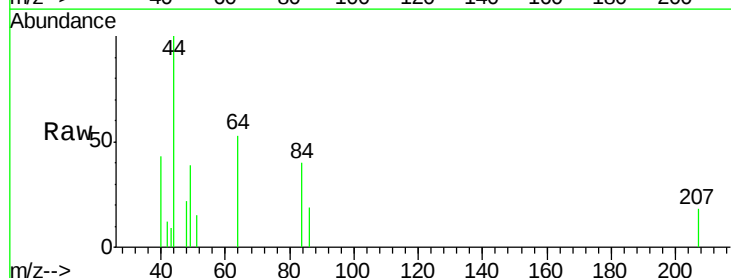
Instrument :  
MSVOA\_X  
ClientSampleId :  
ID039-39MWE10-120720

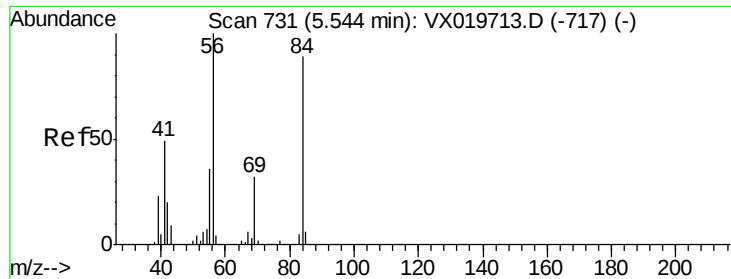
Tgt Ion: 43 Resp: 907  
Ion Ratio Lower Upper  
43 100  
74 10.8 21.9 32.9#



#20  
Methylene Chloride  
Concen: Below Cal  
RT: 2.83 min Scan# 286  
Delta R.T. 0.00 min  
Lab File: VX020079.D  
Acq: 16 Dec 2020 20:36

Tgt Ion: 84 Resp: 312  
Ion Ratio Lower Upper  
84 100  
49 96.2 88.6 132.8  
51 38.3 27.0 40.6  
86 46.8 50.3 75.5#

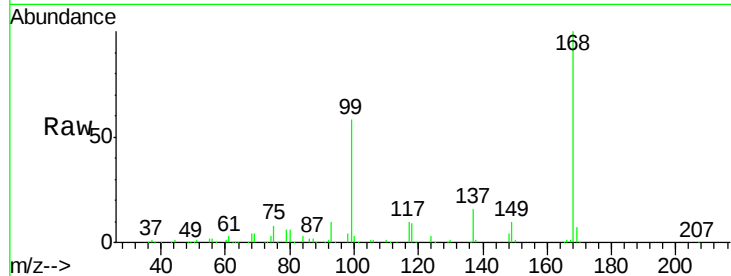




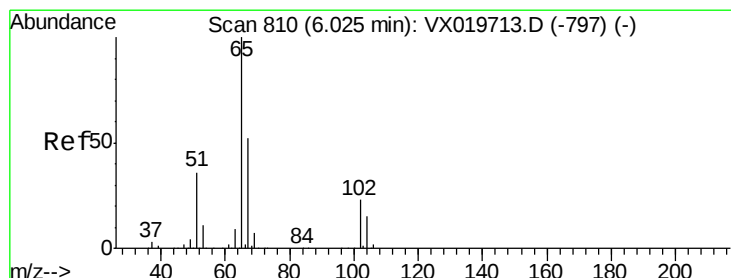
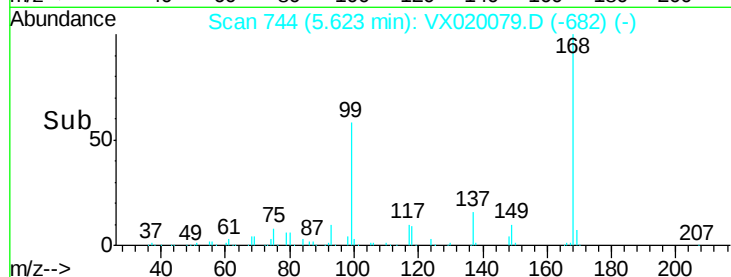
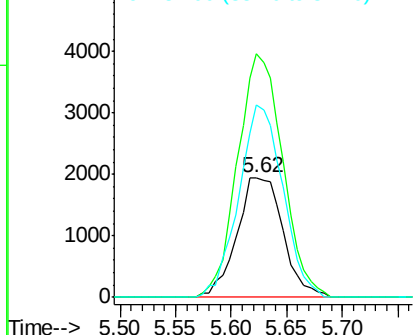
#31  
Cyclohexane  
Concen: 1.204 ug/l  
RT: 5.62 min Scan# 744  
Delta R.T. 0.08 min  
Lab File: VX020079.D  
Acq: 16 Dec 2020 20:36

Instrument :  
MSVOA\_X  
ClientSampleId :  
ID039-39MWE10-120720

Tgt Ion: 56 Resp: 5606  
Ion Ratio Lower Upper  
56 100  
69 203.9 25.3 37.9#  
84 161.5 71.4 107.0#

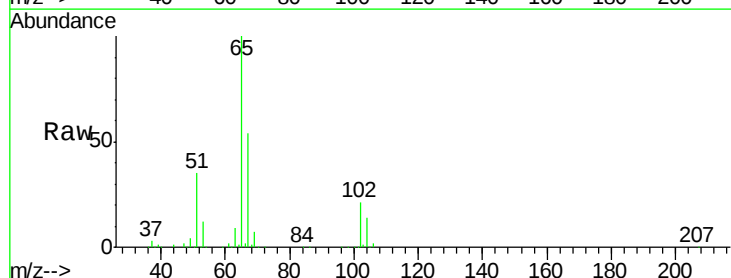


Abundance Ion 56.00 (55.70 to 56.70): VX0  
Ion 69.00 (68.70 to 69.70): VX0  
Ion 84.00 (83.70 to 84.70): VX0

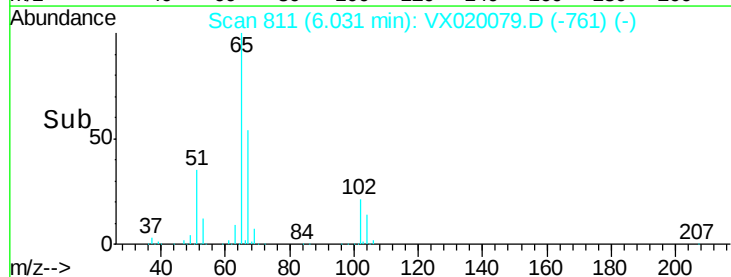
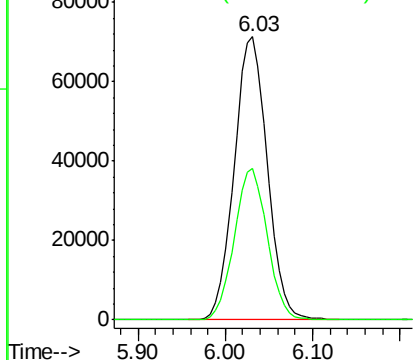


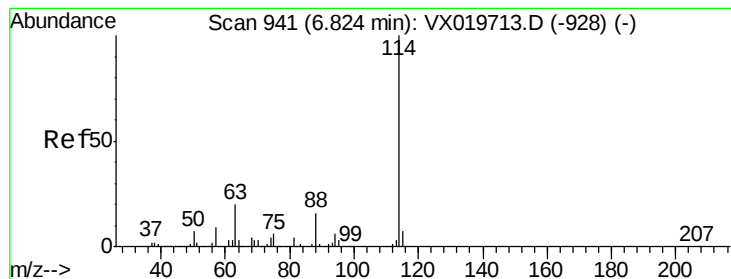
#33  
1,2-Dichloroethane-d4  
Concen: 50.115 ug/l  
RT: 6.03 min Scan# 811  
Delta R.T. 0.01 min  
Lab File: VX020079.D  
Acq: 16 Dec 2020 20:36

Tgt Ion: 65 Resp: 187528  
Ion Ratio Lower Upper  
65 100  
67 53.4 0.0 105.4



Abundance Ion 64.90 (64.60 to 65.60): VX0  
Ion 66.90 (66.60 to 67.60): VX0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.83 min Scan# 942

Delta R.T. 0.01 min

Lab File: VX020079.D

Acq: 16 Dec 2020 20:36

Instrument :

MSVOA\_X

ClientSampleId :

ID039-39MWE10-120720

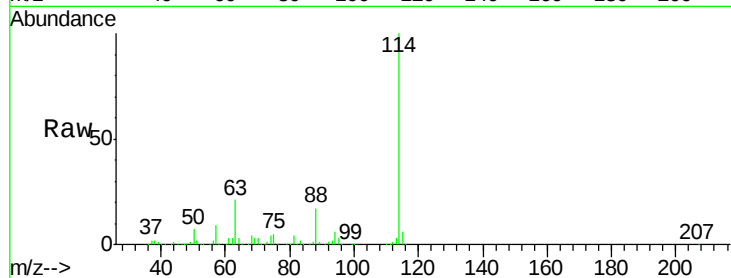
Tgt Ion:114 Resp: 478950

Ion Ratio Lower Upper

114 100

63 20.9 0.0 40.8

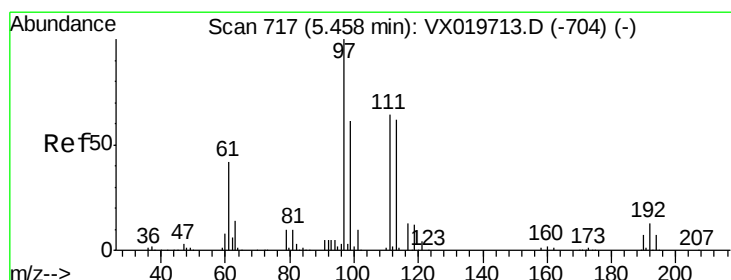
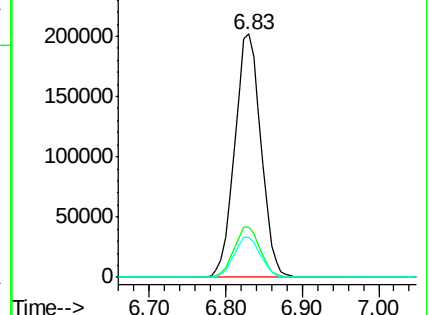
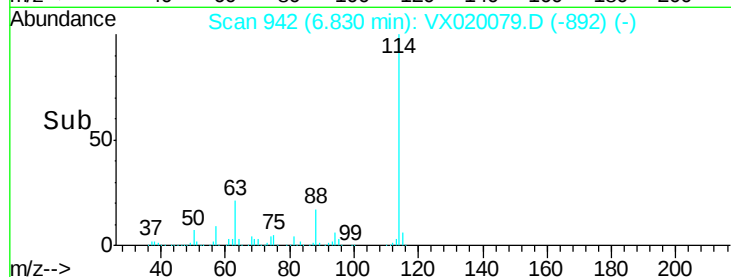
88 16.7 0.0 32.8



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: 48.861 ug/l

RT: 5.46 min Scan# 718

Delta R.T. 0.01 min

Lab File: VX020079.D

Acq: 16 Dec 2020 20:36

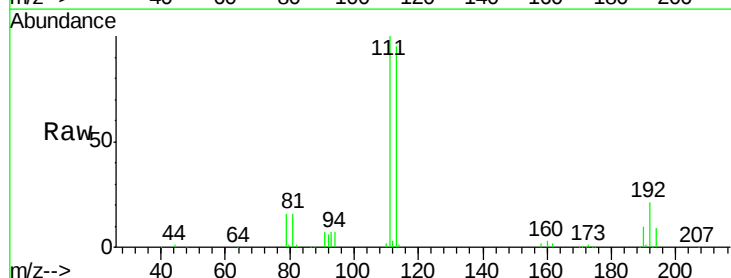
Tgt Ion:113 Resp: 151245

Ion Ratio Lower Upper

113 100

111 103.0 81.9 122.9

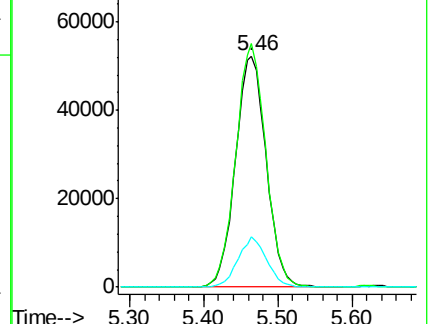
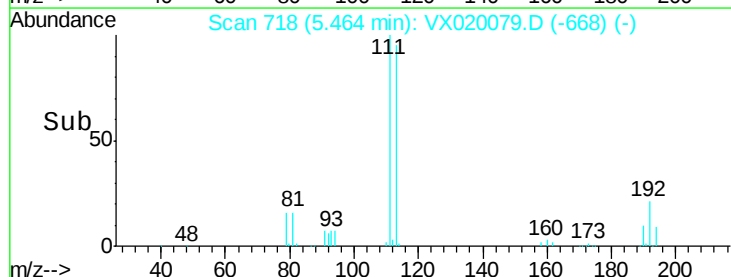
192 20.3 16.7 25.1

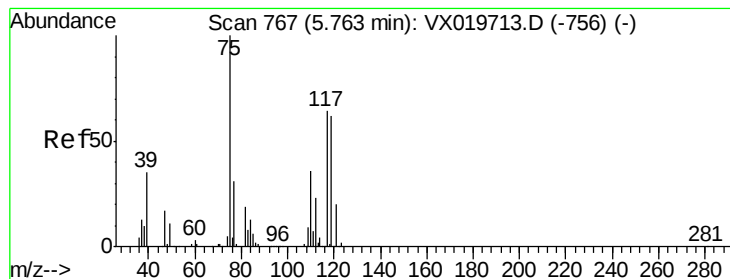


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 5.077 ug/l

RT: 5.62 min Scan# 744

Delta R.T. -0.14 min

Lab File: VX020079.D

Acq: 16 Dec 2020 20:36

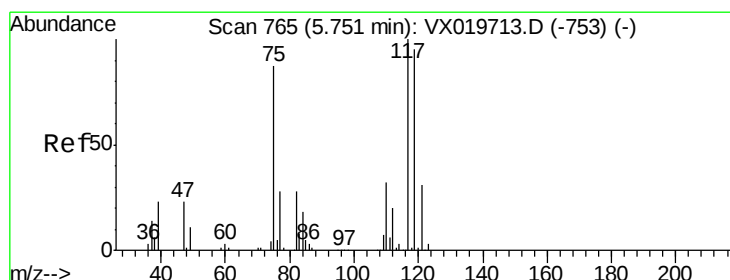
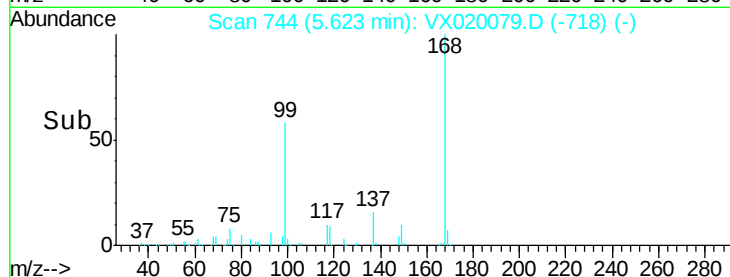
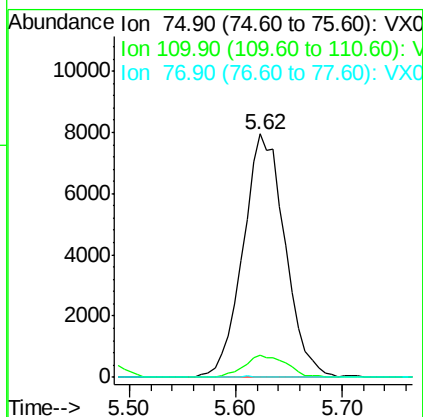
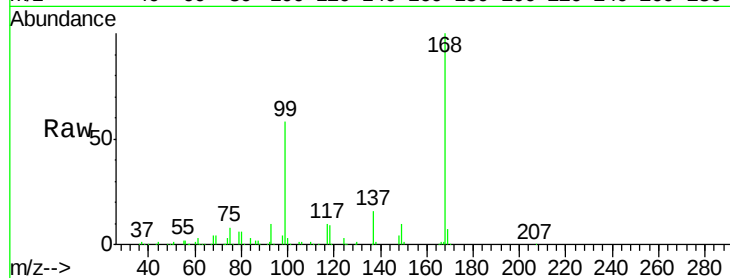
Instrument :

MSVOA\_X

ClientSampleId :

ID039-39MWE10-120720

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 75    | Resp: | 21971 |
| Ion      | Ratio | Lower | Upper |
| 75       | 100   |       |       |
| 110      | 9.1   | 18.1  | 54.4# |
| 77       | 0.1   | 25.3  | 37.9# |



#38

Carbon Tetrachloride

Concen: 6.593 ug/l

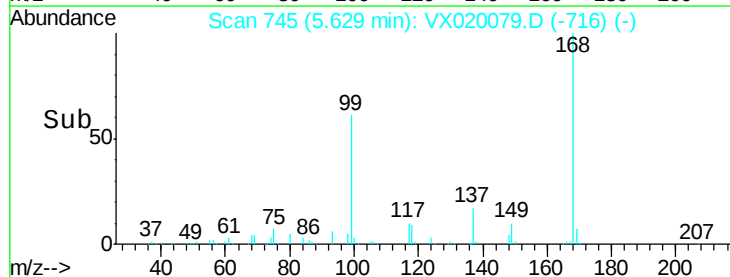
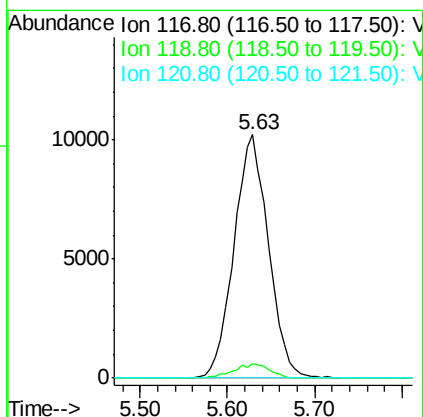
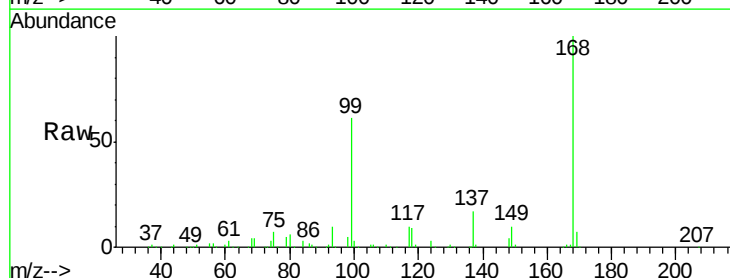
RT: 5.63 min Scan# 745

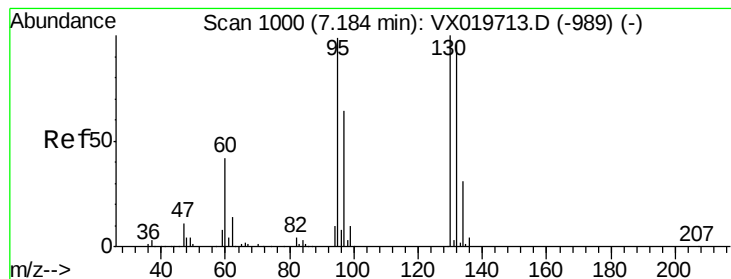
Delta R.T. -0.12 min

Lab File: VX020079.D

Acq: 16 Dec 2020 20:36

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 117   | Resp: | 27944  |
| Ion      | Ratio | Lower | Upper  |
| 117      | 100   |       |        |
| 119      | 5.8   | 76.2  | 114.2# |
| 121      | 0.0   | 24.8  | 37.2#  |





#44

Trichloroethene

Concen: 0.241 ug/l

RT: 7.19 min Scan# 1001

Delta R.T. 0.01 min

Lab File: VX020079.D

Acq: 16 Dec 2020 20:36

Instrument :

MSVOA\_X

ClientSampleId :

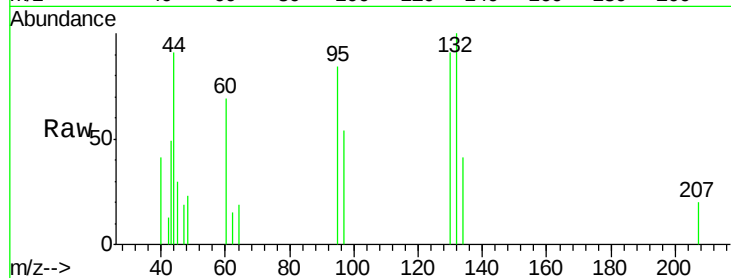
ID039-39MWE10-120720

Tgt Ion:130 Resp: 837

Ion Ratio Lower Upper

130 100

95 92.0 0.0 198.0



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0

7.19

400

300

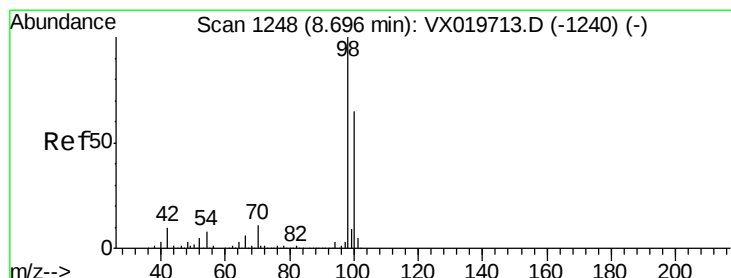
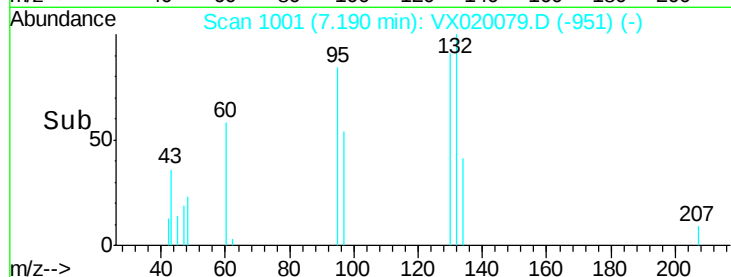
200

100

0

Time-->

7.15 7.20 7.25



#50

Toluene-d8

Concen: 49.387 ug/l

RT: 8.70 min Scan# 1248

Delta R.T. -0.00 min

Lab File: VX020079.D

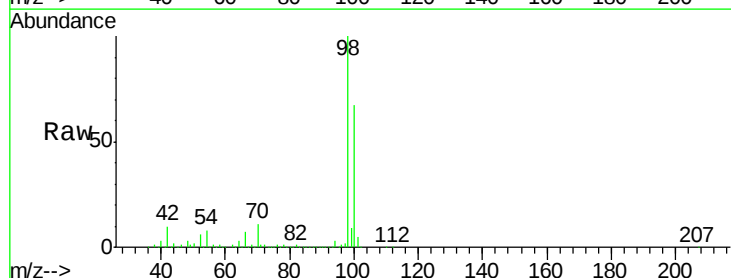
Acq: 16 Dec 2020 20:36

Tgt Ion: 98 Resp: 583621

Ion Ratio Lower Upper

98 100

100 65.9 51.9 77.9



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX0

8.70

400000

300000

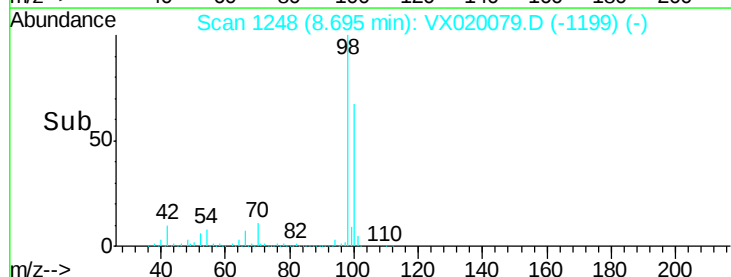
200000

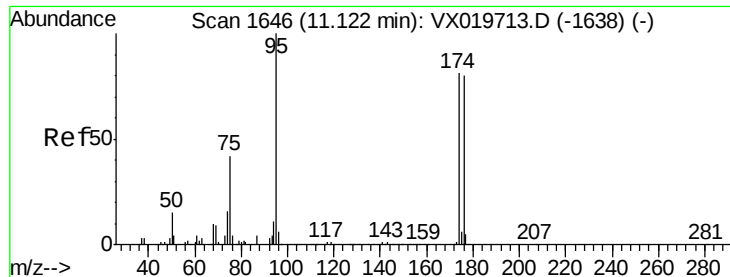
100000

0

Time-->

8.60 8.70 8.80





#62

4-Bromofluorobenzene

Concen: 45.892 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.00 min

Lab File: VX020079.D

Acq: 16 Dec 2020 20:36

Instrument :

MSVOA\_X

ClientSampleId :

ID039-39MWE10-120720

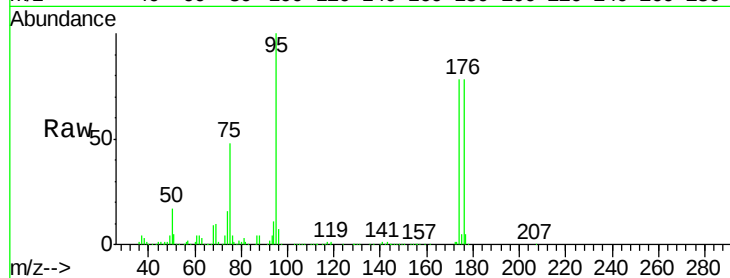
Tgt Ion: 95 Resp: 206417

Ion Ratio Lower Upper

95 100

174 75.1 0.0 154.6

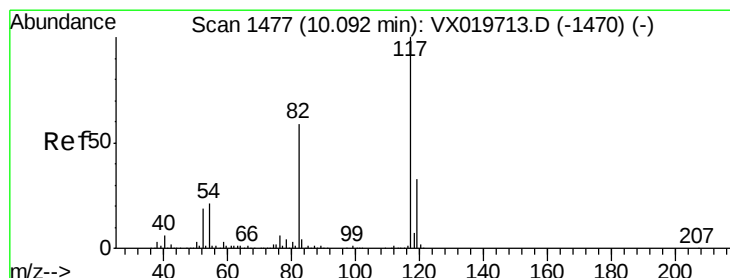
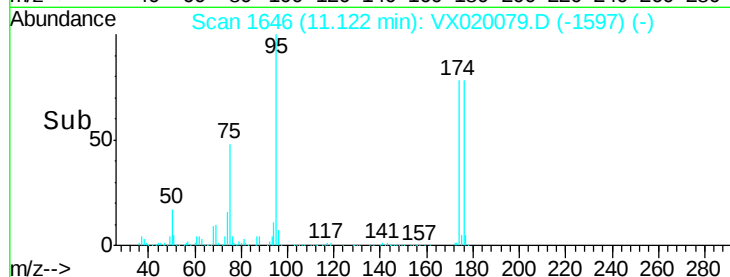
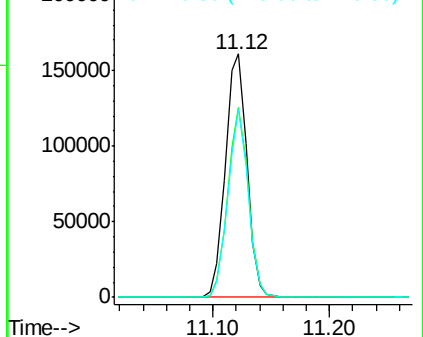
176 73.2 0.0 155.8



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. 0.01 min

Lab File: VX020079.D

Acq: 16 Dec 2020 20:36

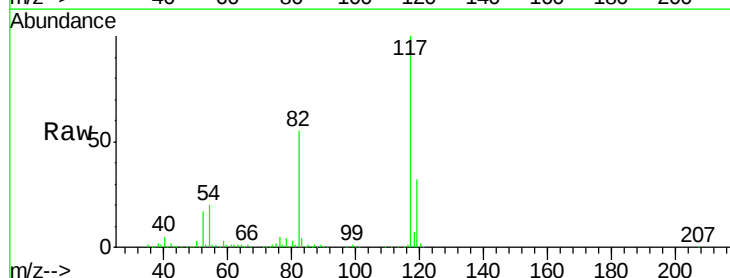
Tgt Ion: 117 Resp: 447744

Ion Ratio Lower Upper

117 100

82 55.0 47.4 71.2

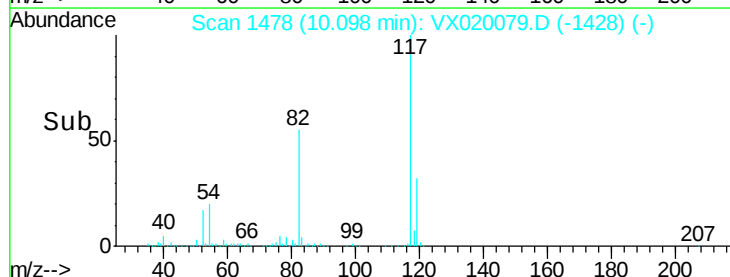
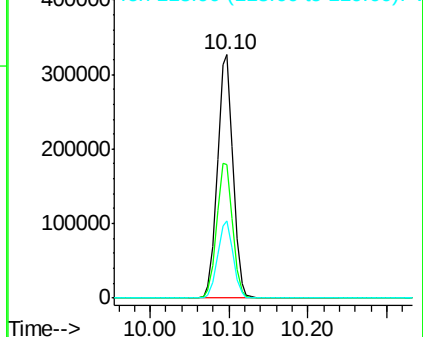
119 31.7 26.6 39.8

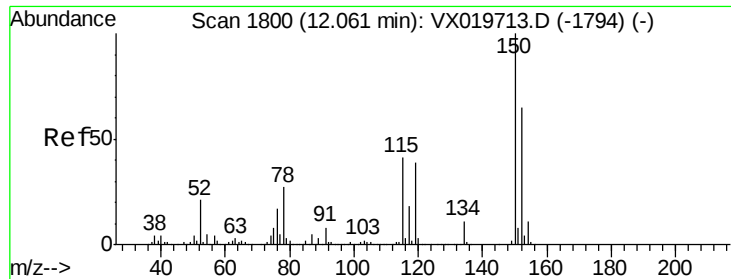


Abundance Ion 116.90 (116.60 to 117.60): V

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: VX020079.D

Acq: 16 Dec 2020 20:36

Instrument :

MSVOA\_X

ClientSampleId :

ID039-39MWE10-120720

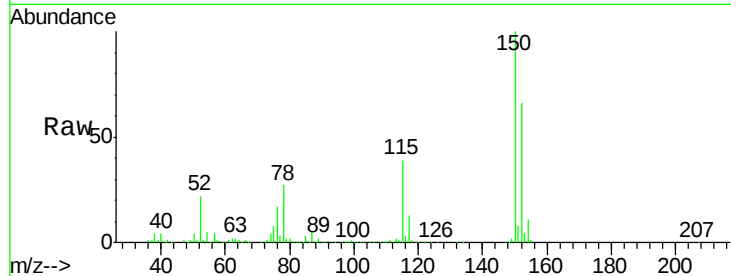
Tgt Ion:152 Resp: 190393

Ion Ratio Lower Upper

152 100

115 59.6 41.1 123.3

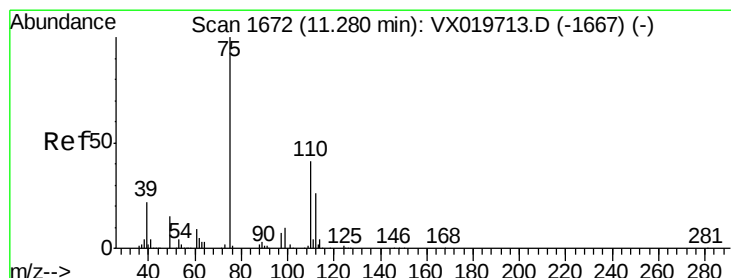
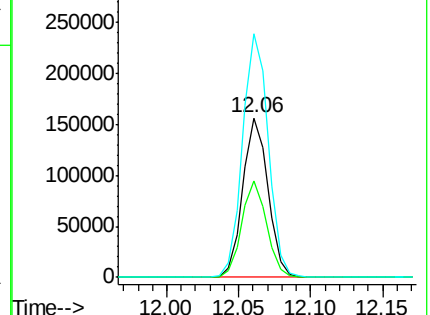
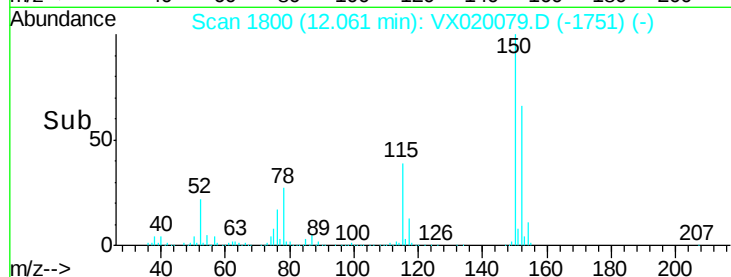
150 156.3 0.0 349.0



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: 23.070 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.16 min

Lab File: VX020079.D

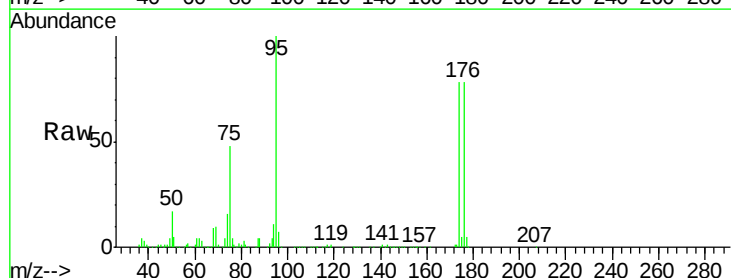
Acq: 16 Dec 2020 20:36

Tgt Ion: 75 Resp: 98515

Ion Ratio Lower Upper

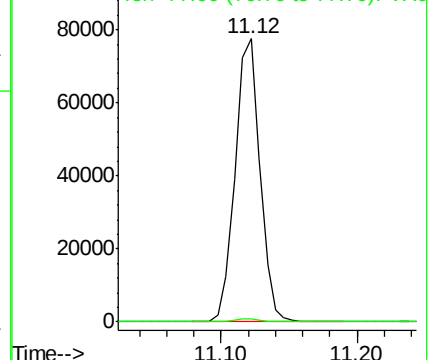
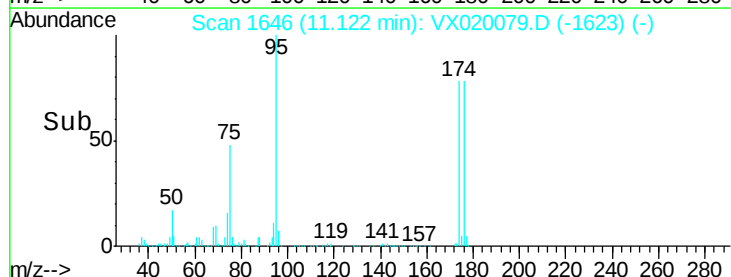
75 100

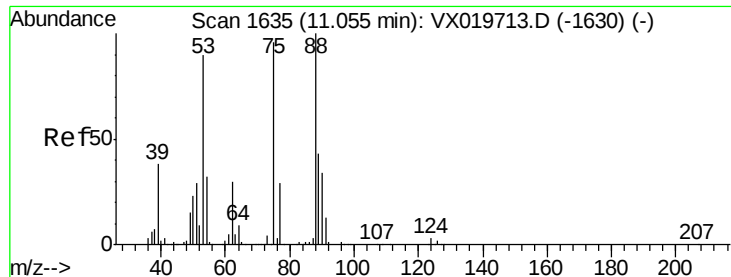
77 1.2 19.1 57.5#



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: 66.692 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.07 min

Lab File: VX020079.D

Acq: 16 Dec 2020 20:36

Instrument :

MSVOA\_X

ClientSampleId :

ID039-39MWE10-120720

Tgt Ion: 75 Resp: 98515

Ion Ratio Lower Upper

75 100

53 0.1 74.5 111.7#

89 0.0 37.9 56.9#

