

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX120420\  
 Data File : VX019741.D  
 Acq On : 05 Dec 2020 00:43  
 Operator : JC/MD  
 Sample : L4953-08  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 34 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 ID039-39MWE2S-120320

Quant Time: Dec 05 05:55:07 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      | 5.62  | 168  | 332423   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.83  | 114  | 547793   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.09 | 117  | 493422   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.06 | 152  | 214827   | 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       | 206739   | 47.32 | ug/l   | 0.00     |
| Spiked Amount               | 50.000 | Range | 61 - 141 | Recovery | =     | 94.64% |          |
| 35) Dibromofluoromethane    |        | 5.46  | 113      | 167330   | 47.26 | ug/l   | 0.00     |
| Spiked Amount               | 50.000 | Range | 69 - 133 | Recovery | =     | 94.52% |          |
| 50) Toluene-d8              |        | 8.70  | 98       | 653320   | 48.34 | ug/l   | 0.00     |
| Spiked Amount               | 50.000 | Range | 65 - 126 | Recovery | =     | 96.68% |          |
| 62) 4-Bromofluorobenzene    |        | 11.12 | 95       | 231931   | 45.08 | ug/l   | 0.00     |
| Spiked Amount               | 50.000 | Range | 58 - 135 | Recovery | =     | 90.16% |          |

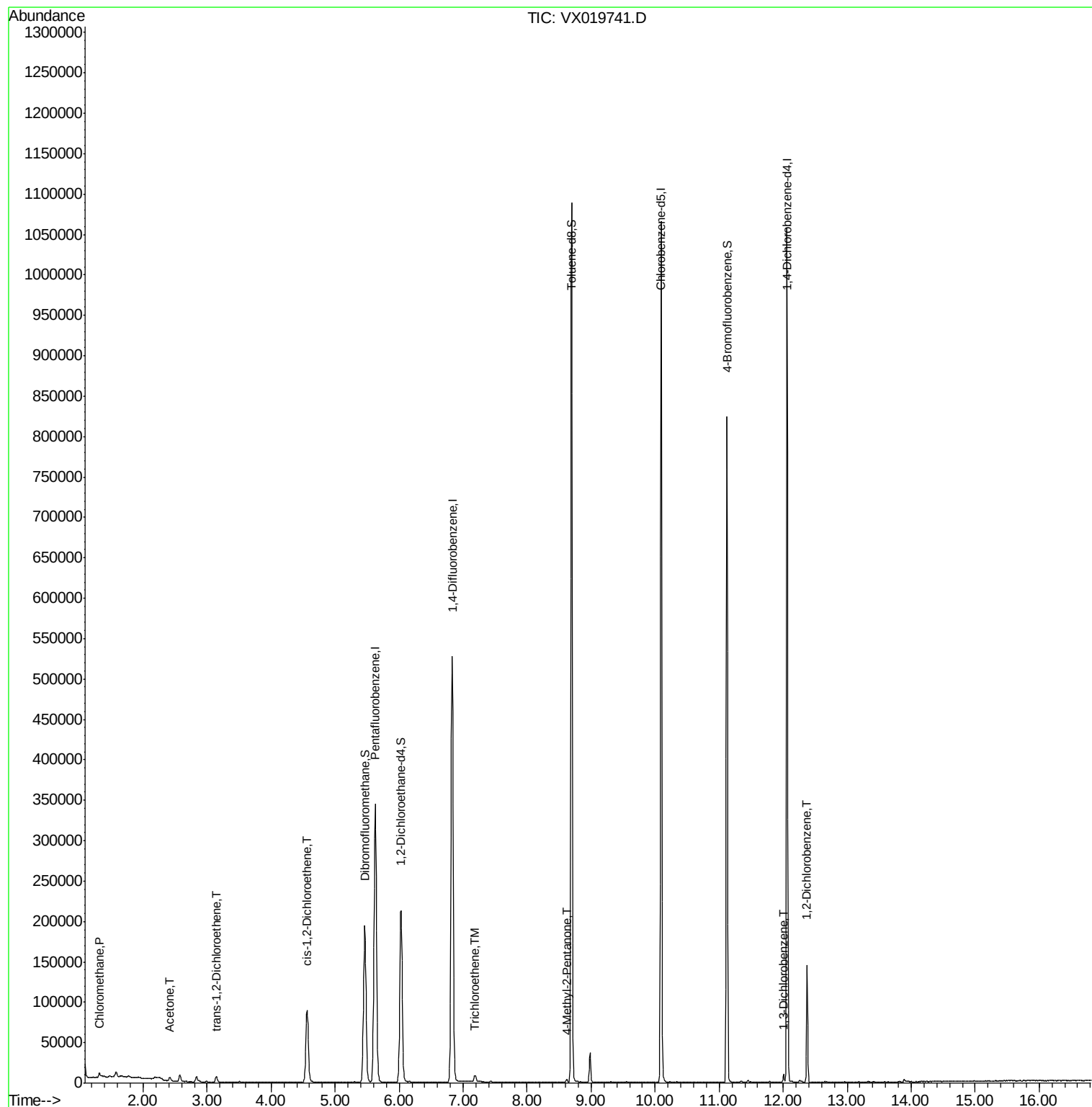
| Target Compounds             | R.T.  | QIon | Response | Conc   | Units  | Qvalue |
|------------------------------|-------|------|----------|--------|--------|--------|
| 3) Chloromethane             | 1.31  | 50   | 1658     | 0.463  | ug/l   | 96     |
| 16) Acetone                  | 2.42  | 43   | 4857     | 2.958  | ug/l   | 99     |
| 21) trans-1,2-Dichloroethene | 3.14  | 96   | 2560     | 0.721  | ug/l # | 86     |
| 27) cis-1,2-Dichloroethene   | 4.56  | 96   | 59033    | 14.206 | ug/l   | 90     |
| 44) Trichloroethene          | 7.18  | 130  | 2937     | 0.740  | ug/l   | 100    |
| 51) 4-Methyl-2-Pentanone     | 8.62  | 43   | 1819     | 0.367  | ug/l   | 97     |
| 87) 1,3-Dichlorobenzene      | 12.01 | 146  | 3532     | 0.512  | ug/l   | 96     |
| 91) 1,2-Dichlorobenzene      | 12.38 | 146  | 47899    | 7.128  | ug/l   | 99     |

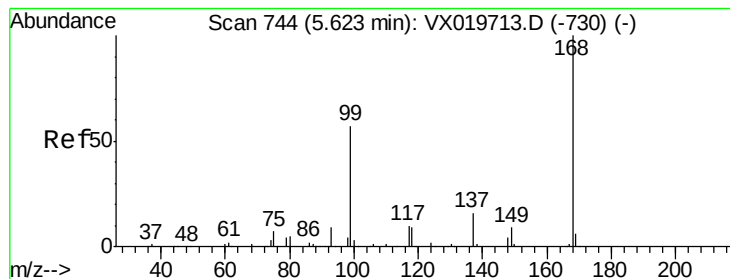
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: 5.62 min Scan# 744

Delta R.T. -0.00 min

Lab File: VX019741.D

Acq: 05 Dec 2020 00:43

Instrument :

MSVOA\_X

ClientSampleId :

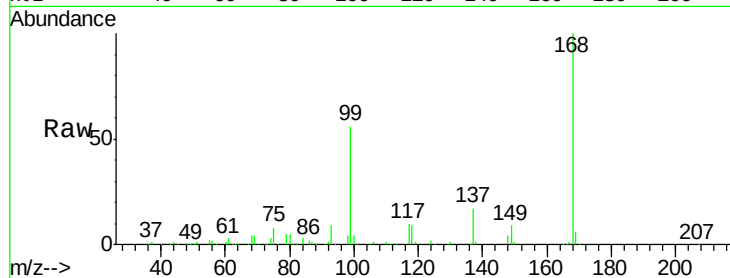
ID039-39MWE2S-120320

Tot Ion:168 Resp: 332423

Ion Ratio Lower Upper

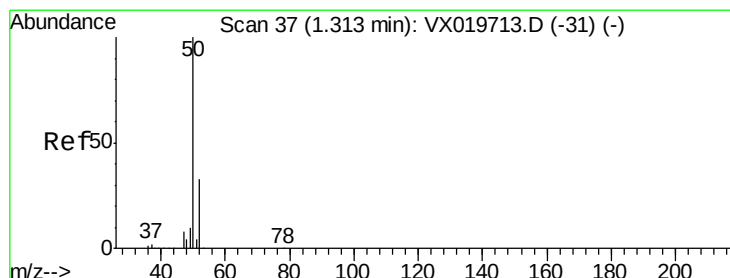
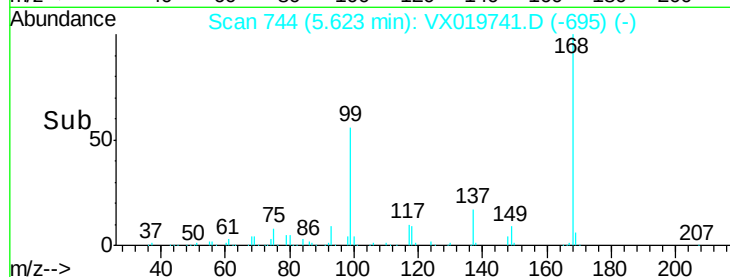
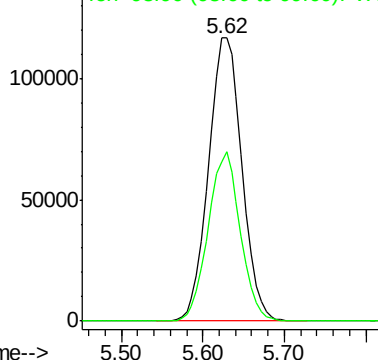
168 100

99 56.1 45.8 68.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#3

Chloromethane

Concen: 0.463 ug/l

RT: 1.31 min Scan# 37

Delta R.T. -0.00 min

Lab File: VX019741.D

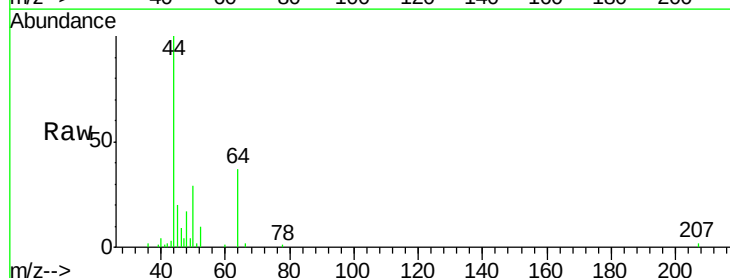
Acq: 05 Dec 2020 00:43

Tgt Ion: 50 Resp: 1658

Ion Ratio Lower Upper

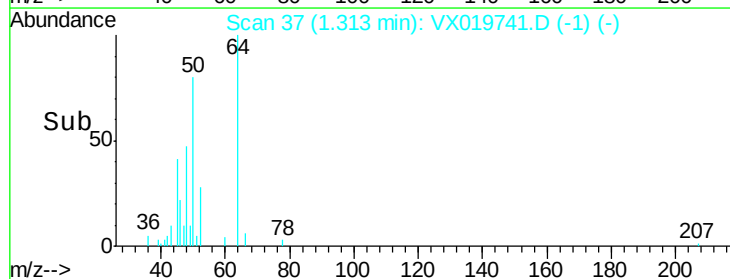
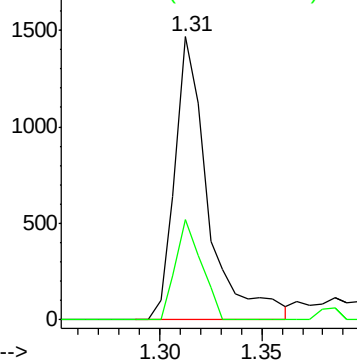
50 100

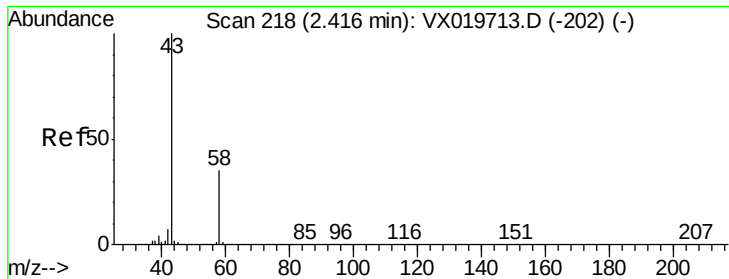
52 35.3 26.4 39.6



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0





#16

Acetone

Concen: 2.958 ug/l

RT: 2.42 min Scan# 218

Delta R.T. -0.00 min

Lab File: VX019741.D

Acq: 05 Dec 2020 00:43

Instrument :

MSVOA\_X

ClientSampleId :

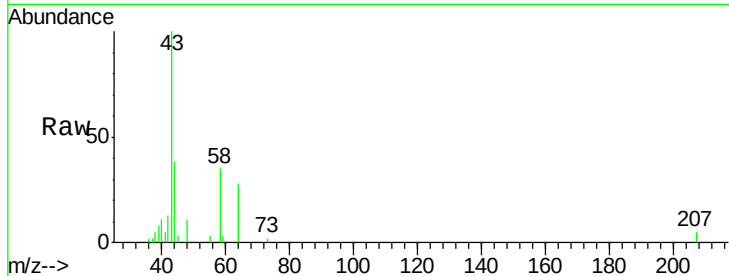
ID039-39MWE2S-120320

Tot Ion: 43 Resp: 4857

Ion Ratio Lower Upper

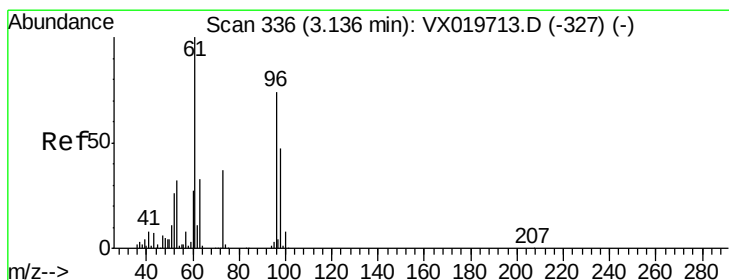
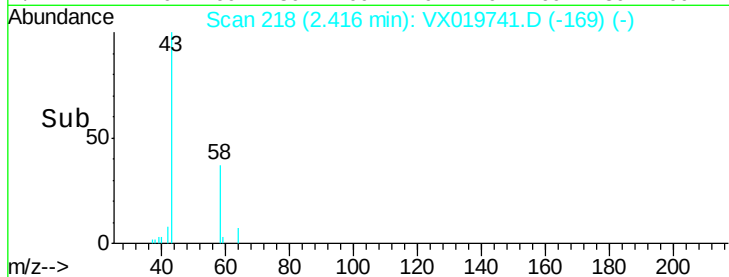
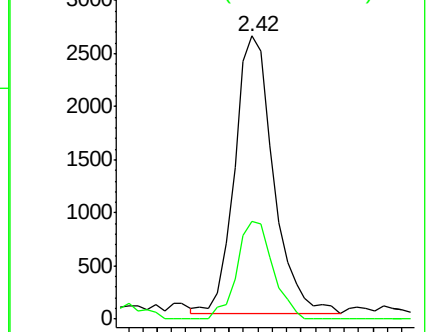
43 100

58 35.5 27.8 41.8



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



#21

trans-1,2-Dichloroethene

Concen: 0.721 ug/l

RT: 3.14 min Scan# 337

Delta R.T. 0.01 min

Lab File: VX019741.D

Acq: 05 Dec 2020 00:43

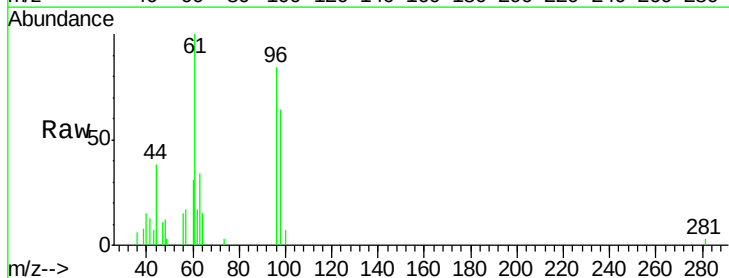
Tgt Ion: 96 Resp: 2560

Ion Ratio Lower Upper

96 100

61 118.8 107.7 161.5

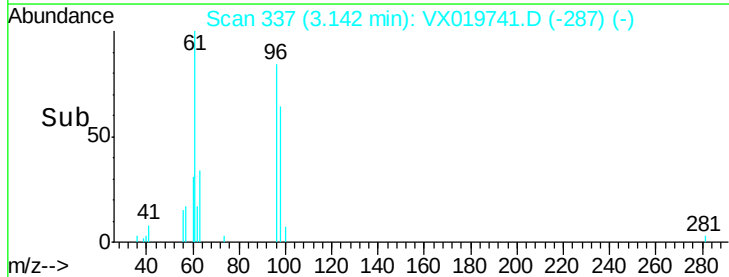
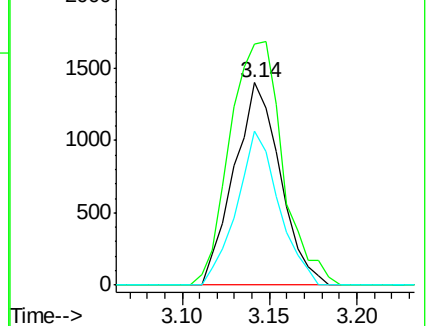
98 75.8 50.4 75.6#

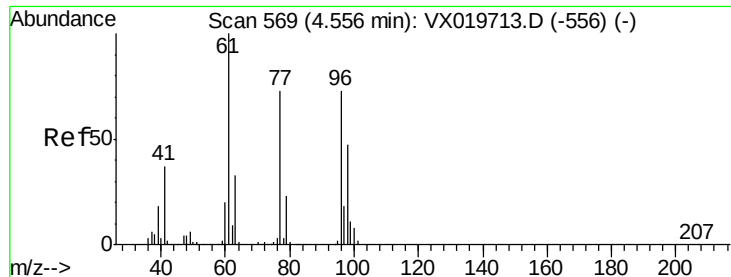


Abundance Ion 95.90 (95.60 to 96.60): VX0

Ion 60.90 (60.60 to 61.60): VX0

Ion 97.90 (97.60 to 98.60): VX0



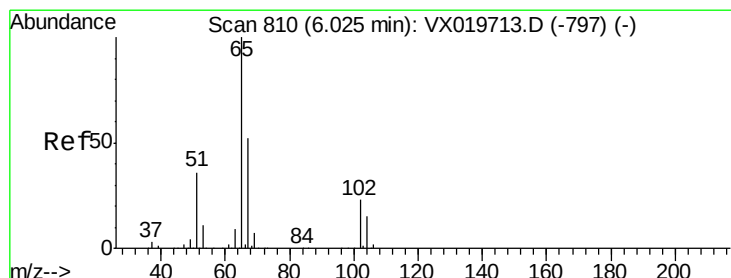
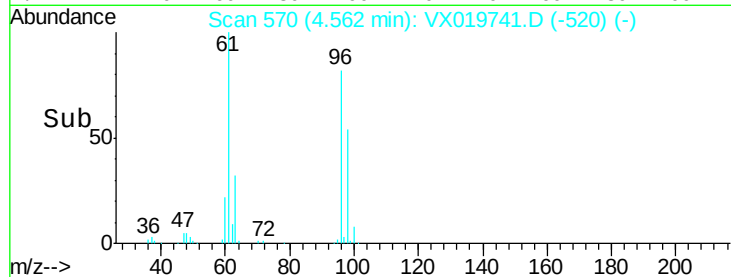
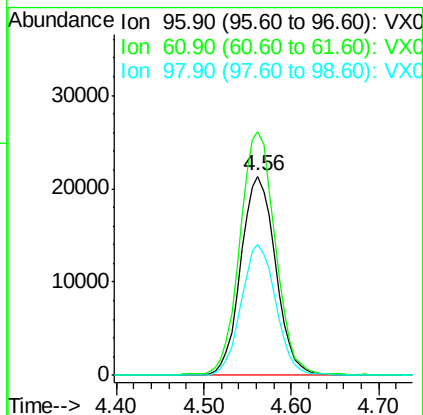
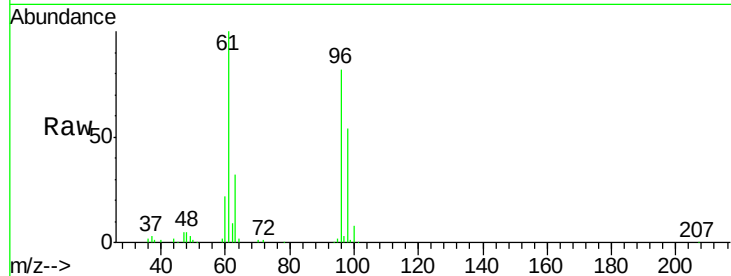


#27

cis-1,2-Dichloroethene  
Concen: 14.206 ug/l  
RT: 4.56 min Scan# 570  
Delta R.T. 0.01 min  
Lab File: VX019741.D  
Acq: 05 Dec 2020 00:43

Instrument :  
MSVOA\_X  
ClientSampleId :  
ID039-39MWE2S-120320

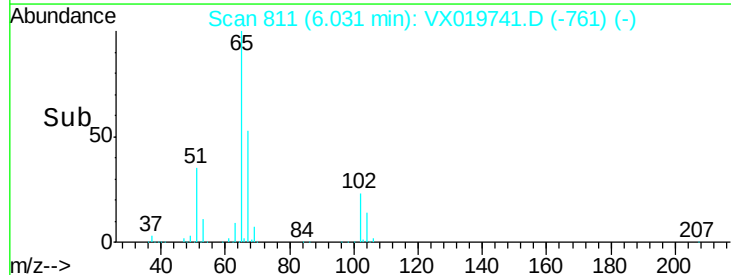
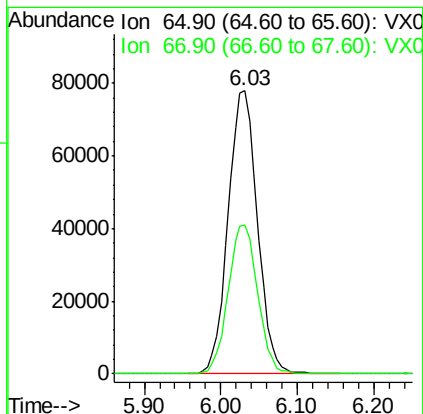
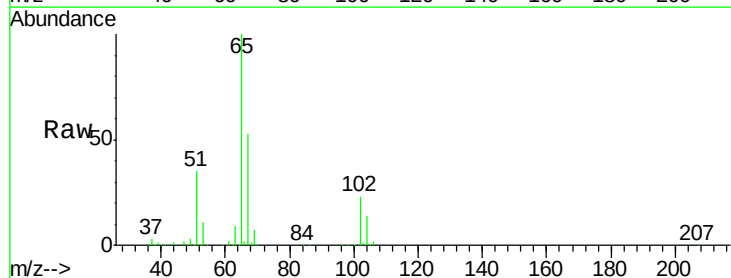
Tot Ion: 96 Resp: 59033  
Ion Ratio Lower Upper  
96 100  
61 125.3 0.0 285.6  
98 65.5 0.0 129.6

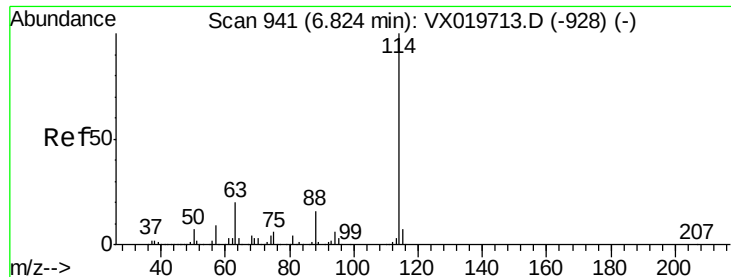


#33

1,2-Dichloroethane-d4  
Concen: 47.319 ug/l  
RT: 6.03 min Scan# 811  
Delta R.T. 0.01 min  
Lab File: VX019741.D  
Acq: 05 Dec 2020 00:43

Tgt Ion: 65 Resp: 206739  
Ion Ratio Lower Upper  
65 100  
67 52.9 0.0 105.4

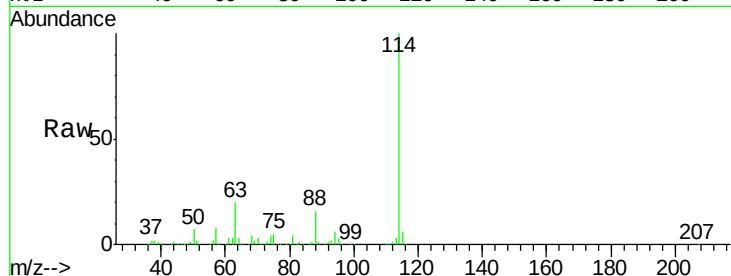




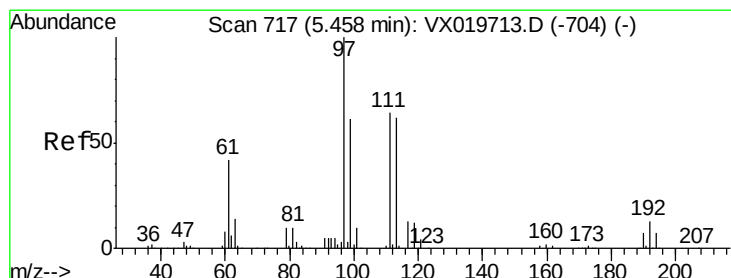
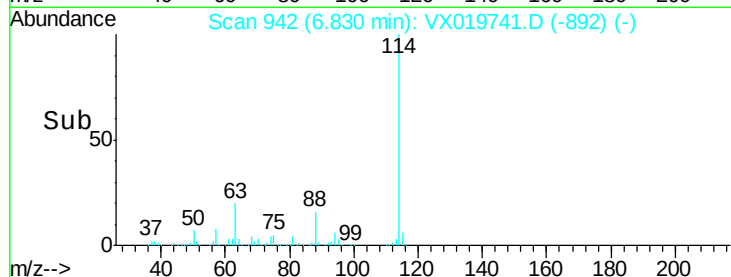
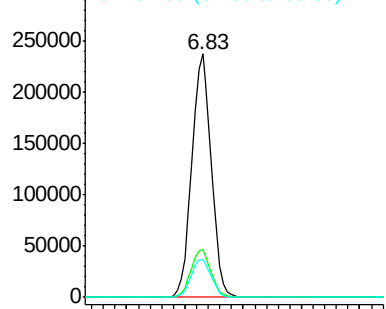
#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 6.83 min Scan# 942  
 Delta R.T. 0.01 min  
 Lab File: VX019741.D  
 Acq: 05 Dec 2020 00:43

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 ID039-39MWE2S-120320

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 114     | 100   |       |       |
| 63      | 19.7  | 0.0   | 40.8  |
| 88      | 15.6  | 0.0   | 32.8  |

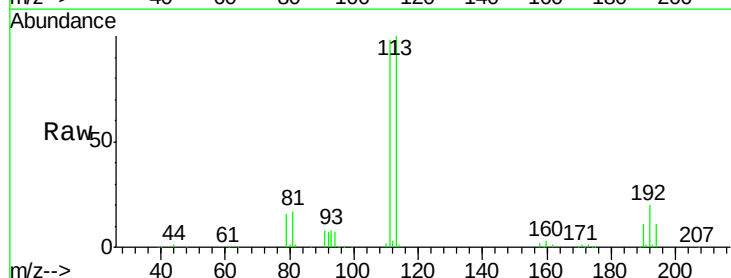


Abundance Ion 113.90 (113.60 to 114.60): V  
 Ion 63.00 (62.70 to 63.70): VX0  
 Ion 87.90 (87.60 to 88.60): VX0

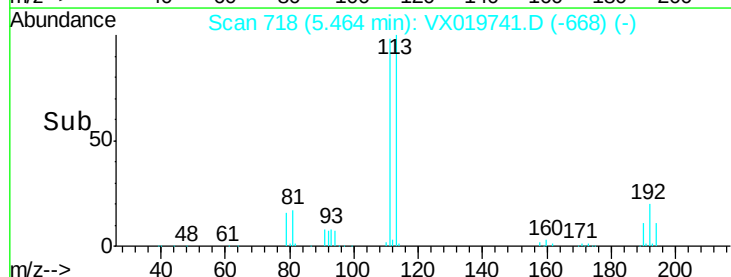
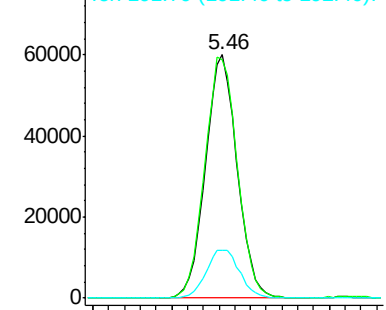


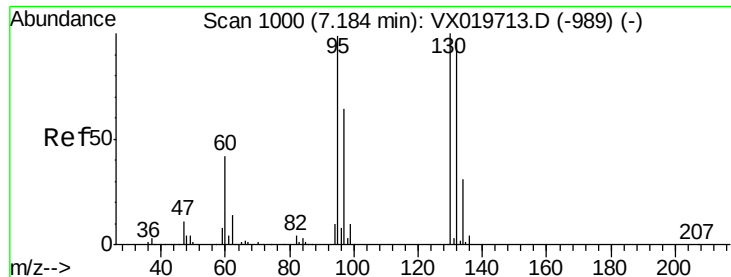
#35  
 Dibromofluoromethane  
 Concen: 47.264 ug/l  
 RT: 5.46 min Scan# 718  
 Delta R.T. 0.01 min  
 Lab File: VX019741.D  
 Acq: 05 Dec 2020 00:43

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 113     | 100   |       |       |
| 111     | 102.2 | 81.9  | 122.9 |
| 192     | 20.8  | 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





#44

Trichloroethene

Concen: 0.740 ug/l

RT: 7.18 min Scan# 1000

Delta R.T. -0.00 min

Lab File: VX019741.D

Acq: 05 Dec 2020 00:43

Instrument :

MSVOA\_X

ClientSampleId :

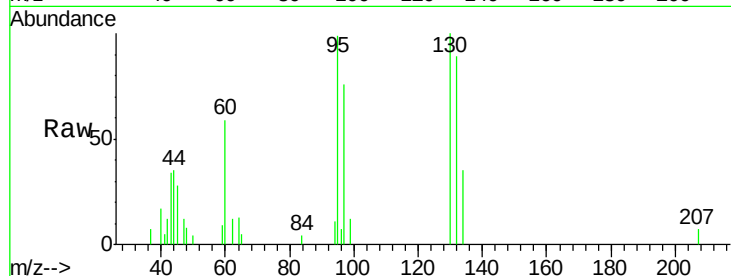
ID039-39MWE2S-120320

Tot Ion:130 Resp: 2937

Ion Ratio Lower Upper

130 100

95 98.8 0.0 198.0



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0

7.18

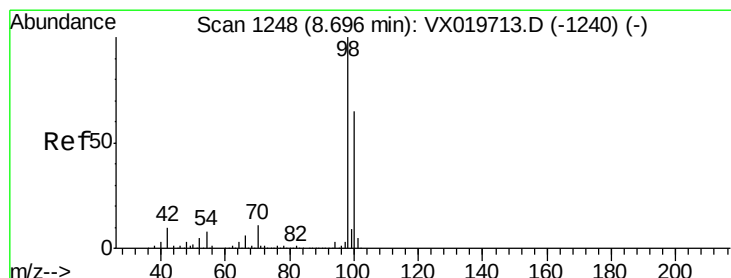
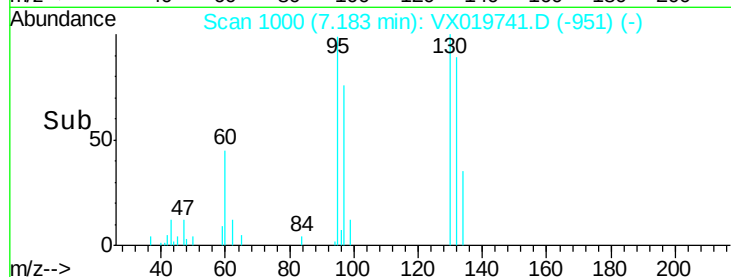
1500

1000

500

0

Time--> 7.10 7.15 7.20 7.25



#50

Toluene-d8

Concen: 48.337 ug/l

RT: 8.70 min Scan# 1248

Delta R.T. -0.00 min

Lab File: VX019741.D

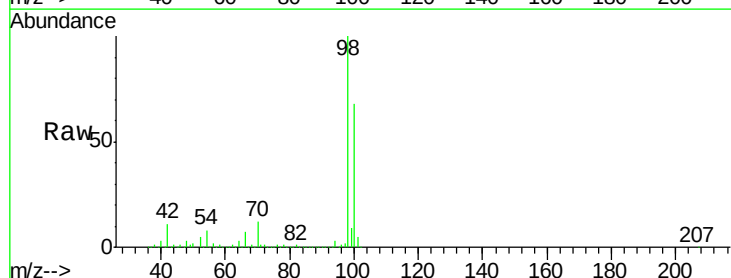
Acq: 05 Dec 2020 00:43

Tgt Ion: 98 Resp: 653320

Ion Ratio Lower Upper

98 100

100 66.5 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

500000

400000

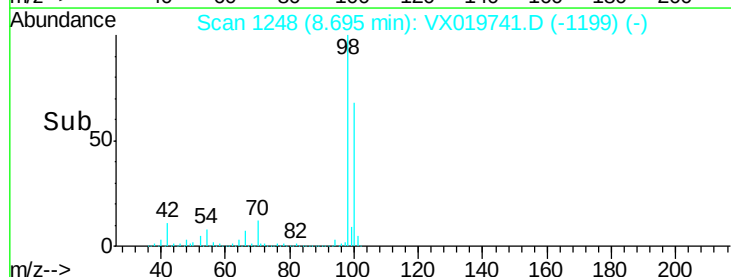
300000

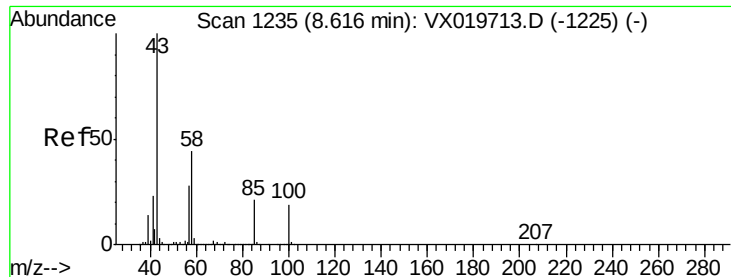
200000

100000

0

Time--> 8.60 8.70 8.80

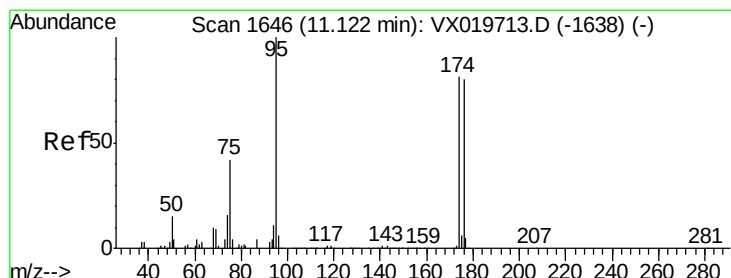
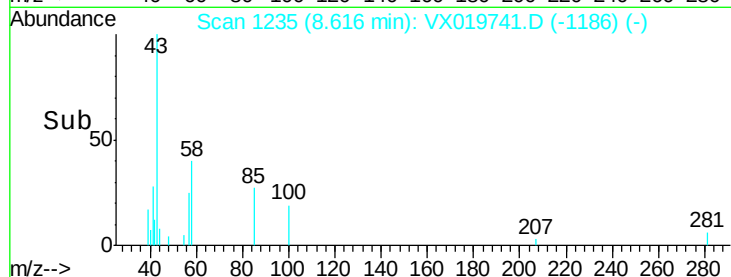
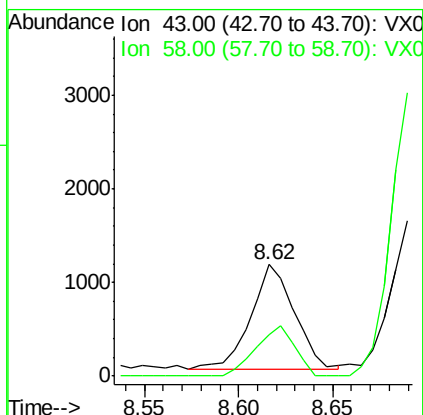
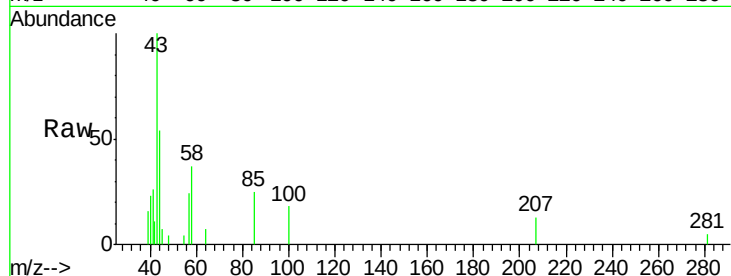




#51  
4-Methyl-2-Pentanone  
Concen: 0.367 ug/l  
RT: 8.62 min Scan# 1235  
Delta R.T. -0.00 min  
Lab File: VX019741.D  
Acq: 05 Dec 2020 00:43

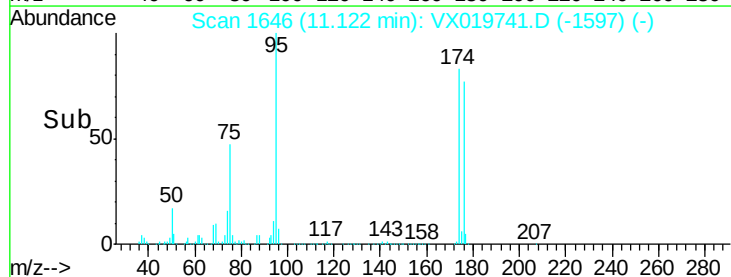
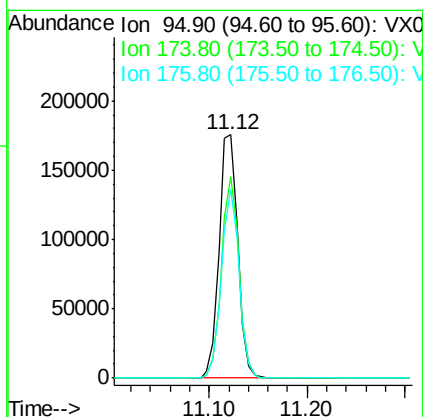
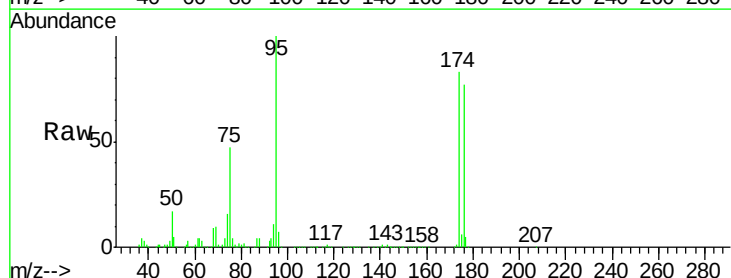
Instrument :  
MSVOA\_X  
ClientSampleId :  
ID039-39MWE2S-120320

Tot Ion: 43 Resp: 1819  
Ion Ratio Lower Upper  
43 100  
58 41.9 35.4 53.0

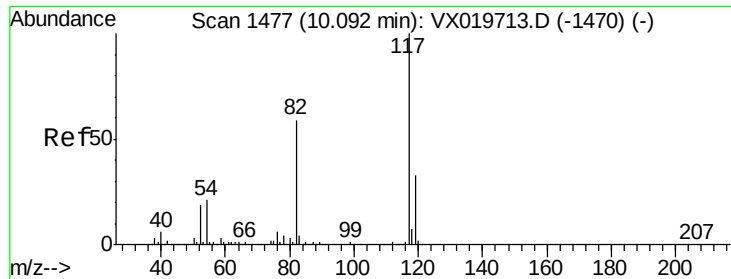


#62  
4-Bromofluorobenzene  
Concen: 45.085 ug/l  
RT: 11.12 min Scan# 1646  
Delta R.T. -0.00 min  
Lab File: VX019741.D  
Acq: 05 Dec 2020 00:43

Tgt Ion: 95 Resp: 231931  
Ion Ratio Lower Upper  
95 100  
174 78.6 0.0 154.6  
176 73.3 0.0 155.8



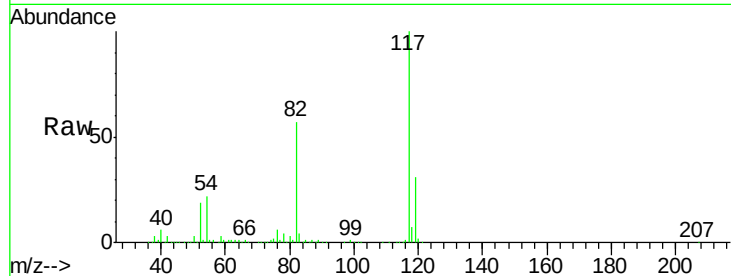




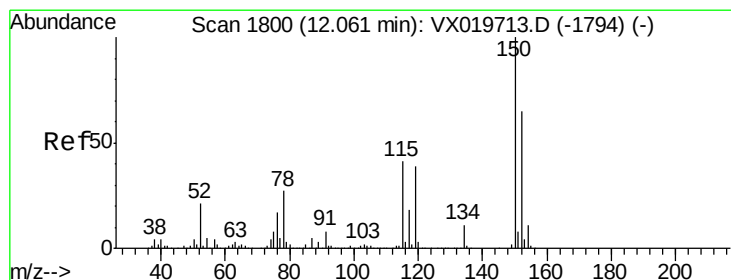
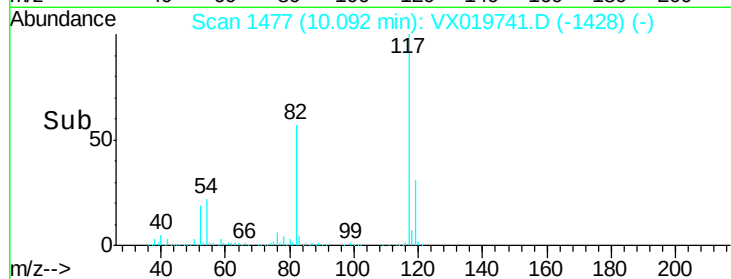
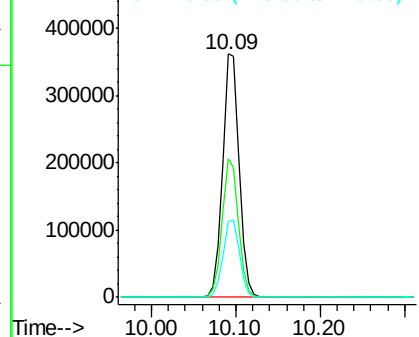
#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 10.09 min Scan# 1477  
Delta R.T. -0.00 min  
Lab File: VX019741.D  
Acq: 05 Dec 2020 00:43

Instrument :  
MSVOA\_X  
ClientSampleId :  
ID039-39MWE2S-120320

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 117     | 100   |       |       |
| 82      | 57.2  | 47.4  | 71.2  |
| 119     | 30.9  | 26.6  | 39.8  |

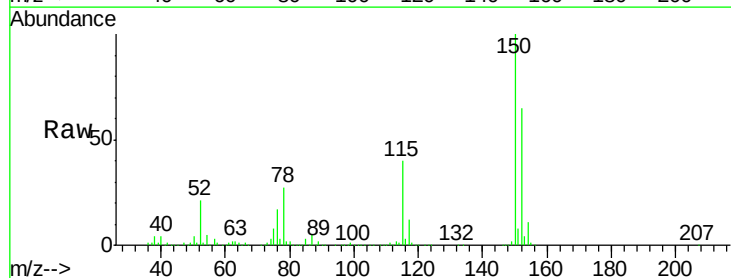


Abundance Ion 116.90 (116.60 to 117.60): V  
Ion 82.00 (81.70 to 82.70): VX0  
Ion 118.90 (118.60 to 119.60): V

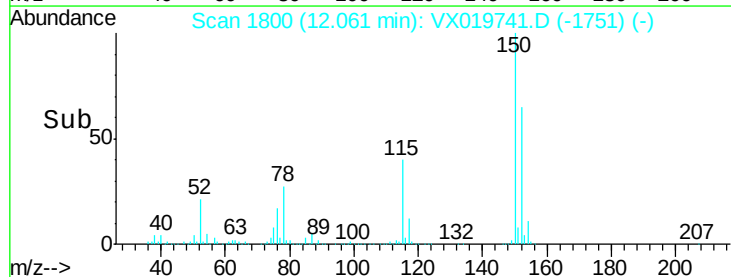
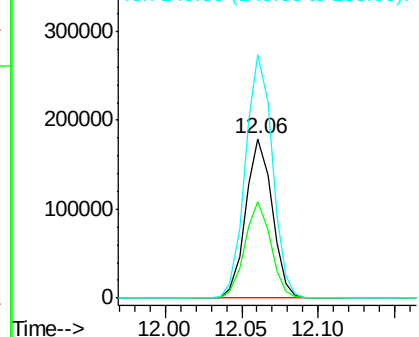


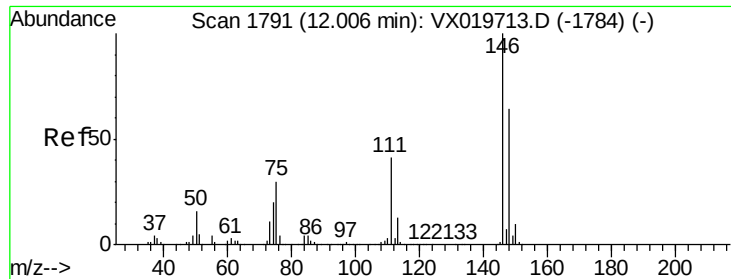
#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 12.06 min Scan# 1800  
Delta R.T. -0.00 min  
Lab File: VX019741.D  
Acq: 05 Dec 2020 00:43

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 115     | 59.8  | 41.1  | 123.3 |
| 150     | 156.6 | 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

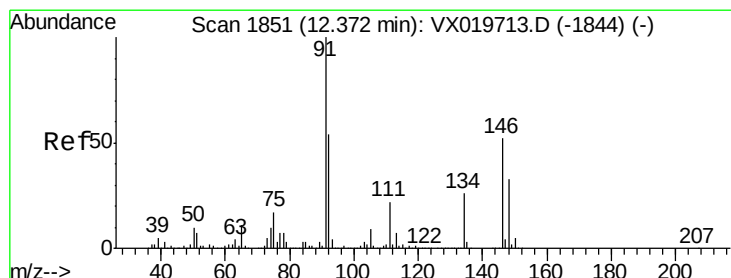
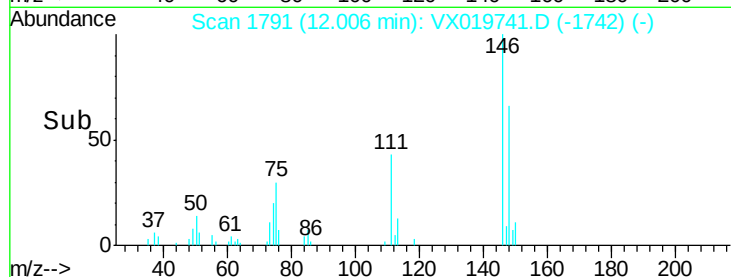
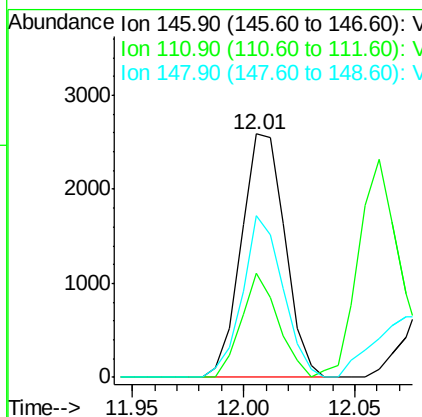
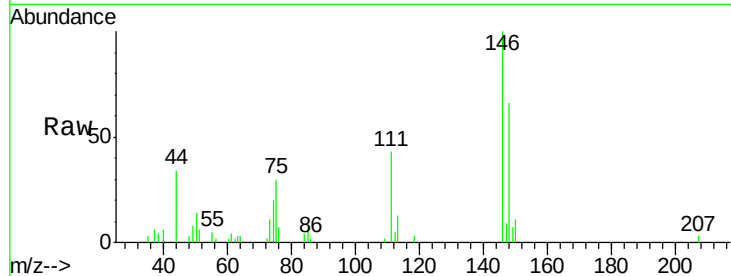




#87  
 1,3-Dichlorobenzene  
 Concen: 0.512 ug/l  
 RT: 12.01 min Scan# 1791  
 Delta R.T. -0.00 min  
 Lab File: VX019741.D  
 Acq: 05 Dec 2020 00:43

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 ID039-39MWE2S-120320

Tot Ion:146 Resp: 3532  
 Ion Ratio Lower Upper  
 146 100  
 111 36.2 20.2 60.5  
 148 61.6 31.9 95.7



#91  
 1,2-Dichlorobenzene  
 Concen: 7.128 ug/l  
 RT: 12.38 min Scan# 1852  
 Delta R.T. 0.01 min  
 Lab File: VX019741.D  
 Acq: 05 Dec 2020 00:43

Tgt Ion:146 Resp: 47899  
 Ion Ratio Lower Upper  
 146 100  
 111 42.4 20.8 62.2  
 148 64.4 31.9 95.5

