

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX110620\  
 Data File : VX019293.D  
 Acq On : 05 Nov 2020 00:32  
 Operator : JC/MD  
 Sample : L4607-06  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 21 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 OW-04

Quant Time: Nov 05 02:30:39 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      | 5.64  | 168  | 291166   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.83  | 114  | 509144   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.10 | 117  | 493112   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.06 | 152  | 251308   | 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   | 207450   | 55.25 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 110.50% |          |
| 35) Dibromofluoromethane    | 5.46  | 113  | 163672   | 51.18 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 102.36% |          |
| 50) Toluene-d8              | 8.70  | 98   | 643393   | 53.37 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 106.74% |          |
| 62) 4-Bromofluorobenzene    | 11.12 | 95   | 244311   | 53.51 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 107.02% |          |

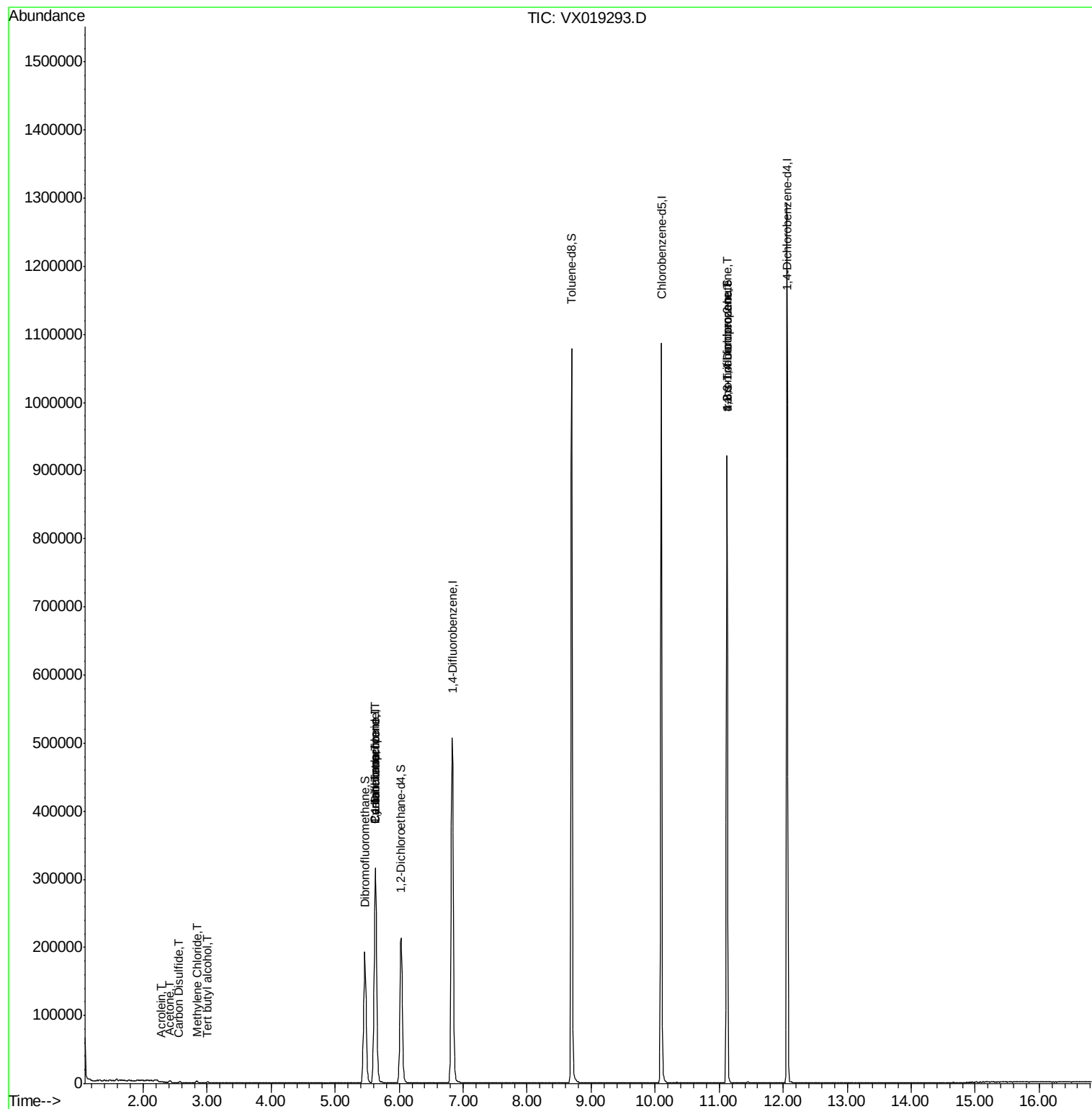
| Target Compounds               | R.T.  | QIon | Response | Conc   | Units  | Qvalue |
|--------------------------------|-------|------|----------|--------|--------|--------|
| 11) Tert butyl alcohol         | 3.01  | 59   | 1750     | 2.360  | ug/l   | 96     |
| 13) Acrolein                   | 2.29  | 56   | 19       | 5.704  | ug/l # | 55     |
| 16) Acetone                    | 2.42  | 43   | 3100     | 2.393  | ug/l # | 88     |
| 17) Carbon Disulfide           | 2.55  | 76   | 560      | 0.828  | ug/l # | 82     |
| 20) Methylene Chloride         | 2.83  | 84   | 1156     | 0.355  | ug/l   | 90     |
| 31) Cyclohexane                | 5.63  | 56   | 6745     | 1.421  | ug/l # | 6      |
| 36) 1,1-Dichloropropene        | 5.63  | 75   | 24292    | 5.167  | ug/l # | 49     |
| 38) Carbon Tetrachloride       | 5.63  | 117  | 30034    | 6.267  | ug/l # | 16     |
| 76) 1,2,3-Trichloropropane     | 11.12 | 75   | 127617   | 24.594 | ug/l # | 37     |
| 81) trans-1,4-Dichloro-2-buten | 11.12 | 75   | 127617   | 64.755 | ug/l # | 12     |

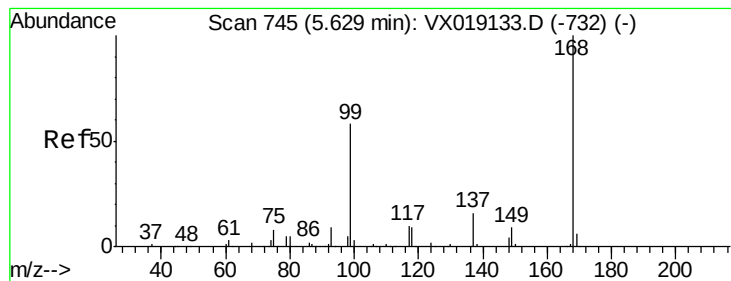
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.64 min Scan# 746

Delta R.T. 0.01 min

Lab File: VX019293.D

Acq: 05 Nov 2020 00:32

Instrument :

MSVOA\_X

ClientSampled :

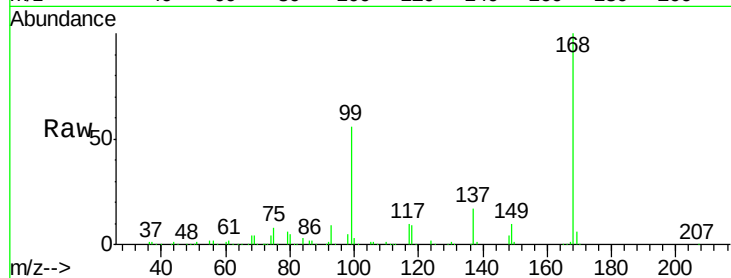
OW-04

Tot Ion:168 Resp: 291166

Ion Ratio Lower Upper

168 100

99 56.5 46.6 69.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.64

100000

80000

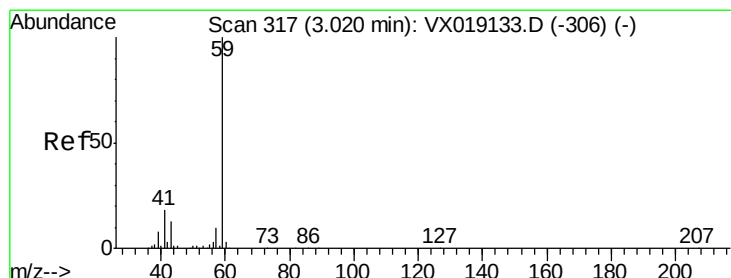
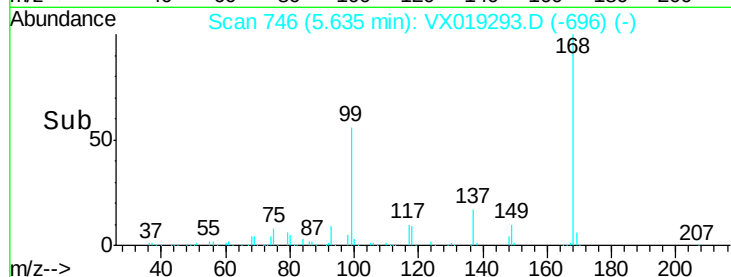
60000

40000

20000

0

Time-->



#11

Tert butyl alcohol

Concen: 2.360 ug/l

RT: 3.01 min Scan# 316

Delta R.T. -0.01 min

Lab File: VX019293.D

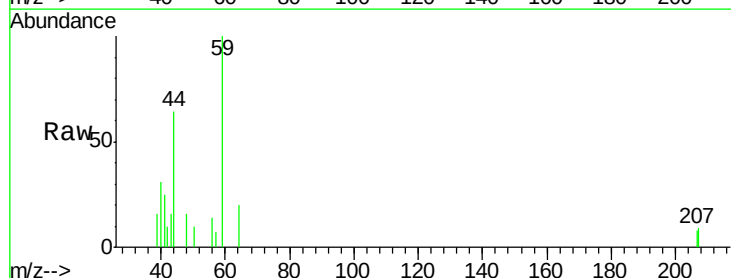
Acq: 05 Nov 2020 00:32

Tgt Ion: 59 Resp: 1750

Ion Ratio Lower Upper

59 100

57 8.9 8.4 12.6



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0

3.01

800

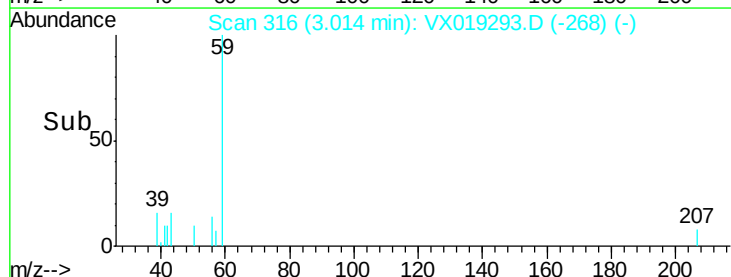
600

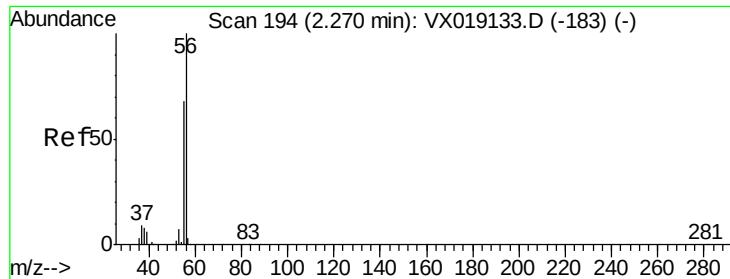
400

200

0

Time-->





#13

Acrolein

Concen: 5.704 ug/l

RT: 2.29 min Scan# 197

Delta R.T. 0.02 min

Lab File: VX019293.D

Acq: 05 Nov 2020 00:32

Instrument :

MSVOA\_X

ClientSampled :

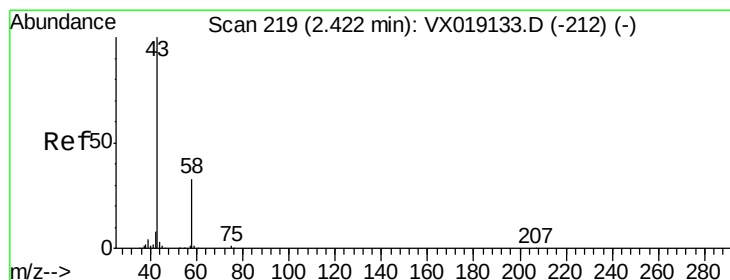
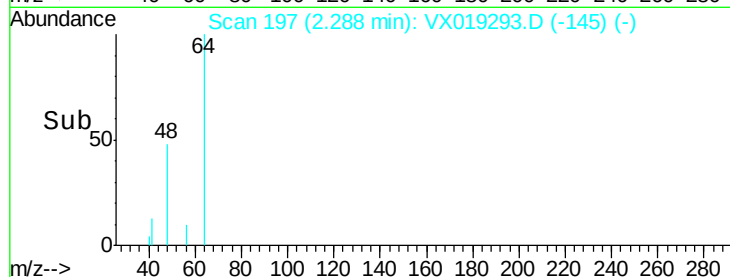
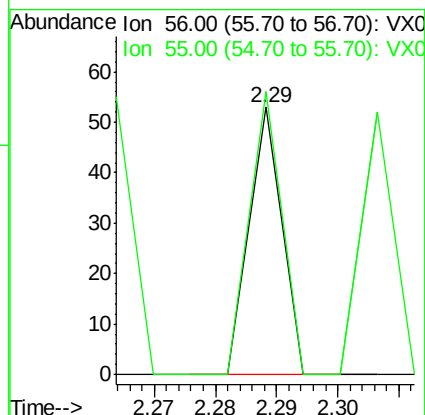
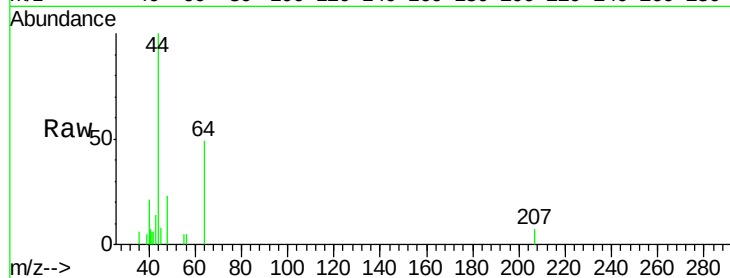
OW-04

Tot Ion: 56 Resp: 19

Ion Ratio Lower Upper

56 100

55 105.3 54.7 82.1#



#16

Acetone

Concen: 2.393 ug/l

RT: 2.42 min Scan# 218

Delta R.T. -0.01 min

Lab File: VX019293.D

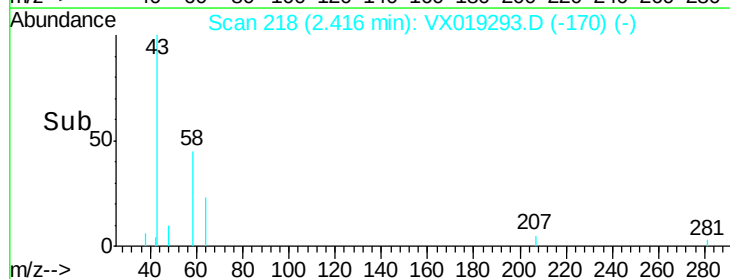
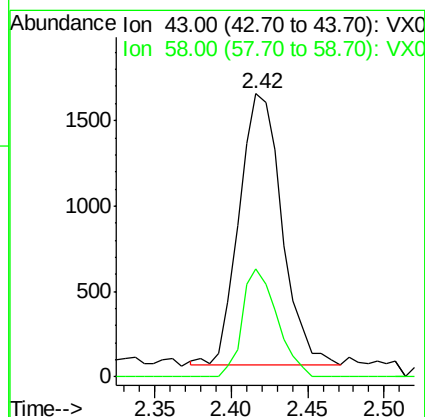
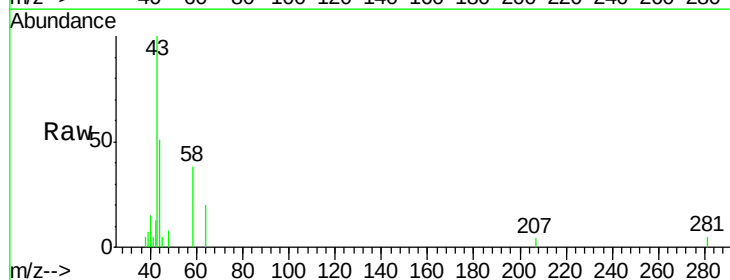
Acq: 05 Nov 2020 00:32

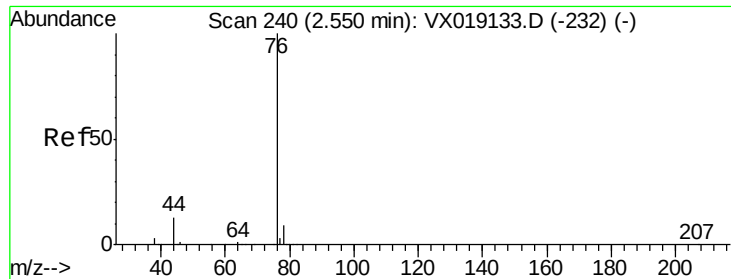
Tgt Ion: 43 Resp: 3100

Ion Ratio Lower Upper

43 100

58 39.9 26.3 39.5#





#17

Carbon Disulfide

Concen: 0.828 ug/l

RT: 2.55 min Scan# 240

Delta R.T. 0.00 min

Lab File: VX019293.D

Acq: 05 Nov 2020 00:32

Instrument :

MSVOA\_X

ClientSampled :

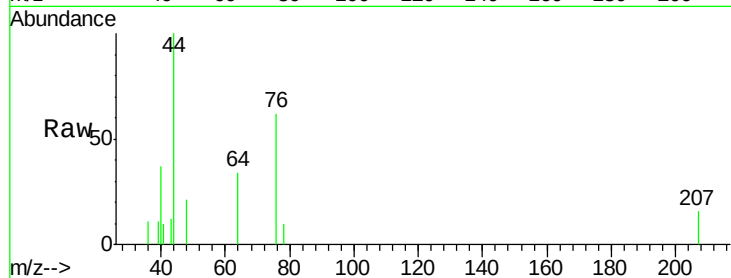
OW-04

Tot Ion: 76 Resp: 560

Ion Ratio Lower Upper

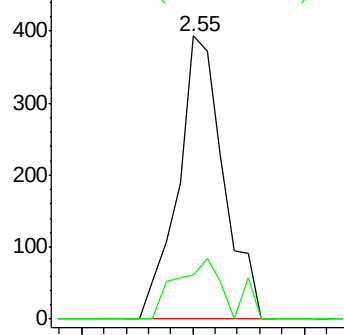
76 100

78 15.5 7.3 10.9#

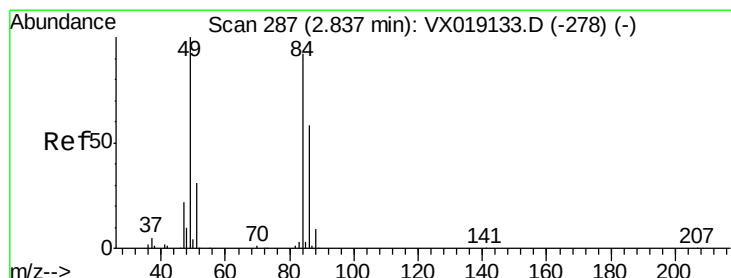
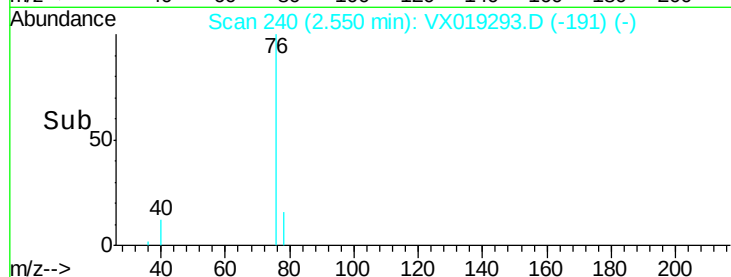


Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0



Time-->



#20

Methylene Chloride

Concen: 0.355 ug/l

RT: 2.83 min Scan# 286

Delta R.T. -0.01 min

Lab File: VX019293.D

Acq: 05 Nov 2020 00:32

Tgt Ion: 84 Resp: 1156

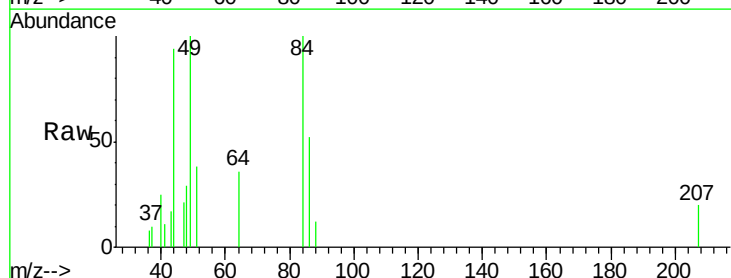
Ion Ratio Lower Upper

84 100

49 99.8 86.8 130.2

51 37.6 27.3 40.9

86 51.9 50.6 76.0

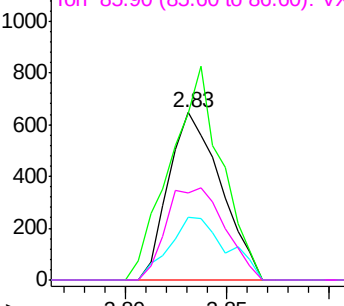


Abundance Ion 83.90 (83.60 to 84.60): VX0

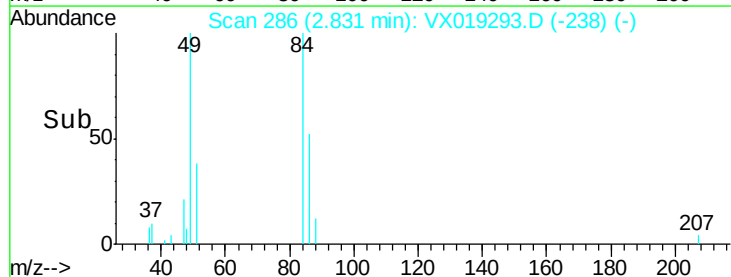
Ion 48.90 (48.60 to 49.60): VX0

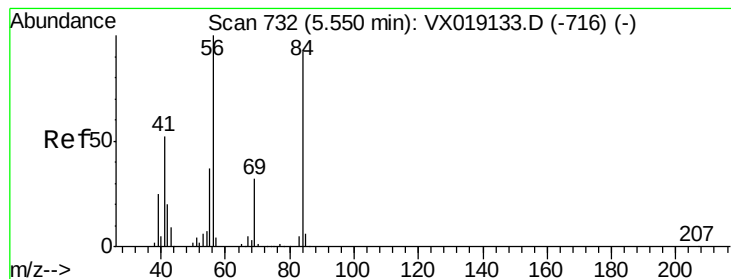
Ion 50.90 (50.60 to 51.60): VX0

Ion 85.90 (85.60 to 86.60): VX0



Time-->





#31

Cyclohexane

Concen: 1.421 ug/l

RT: 5.63 min Scan# 745

Delta R.T. 0.08 min

Lab File: VX019293.D

Acq: 05 Nov 2020 00:32

Instrument :

MSVOA\_X

ClientSampled :

OW-04

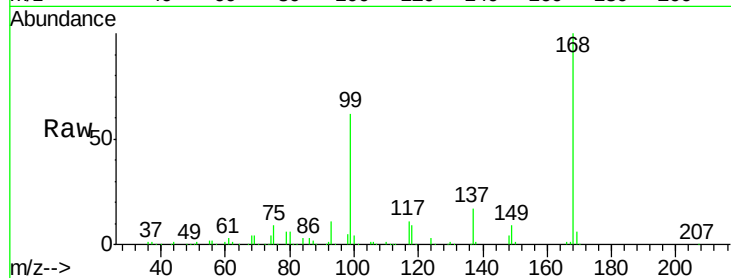
Tot Ion: 56 Resp: 6745

Ion Ratio Lower Upper

56 100

69 178.3 25.9 38.9#

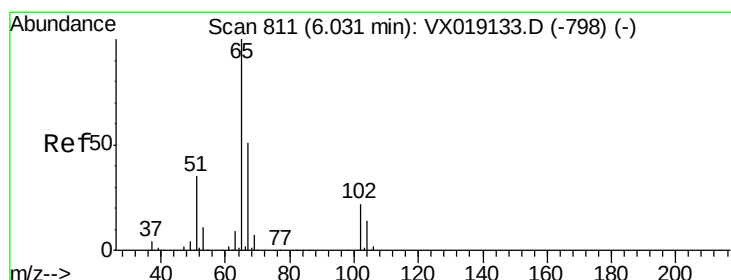
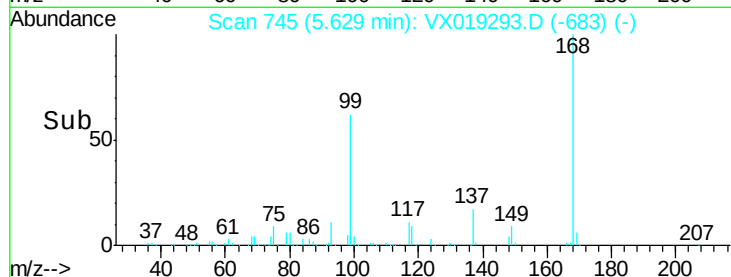
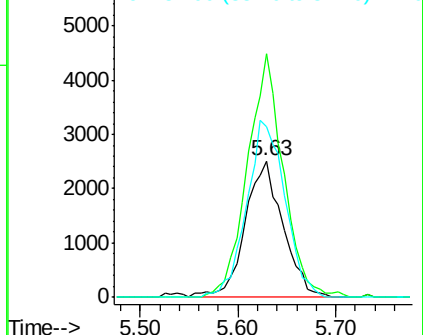
84 124.9 73.4 110.2#



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: 55.247 ug/l

RT: 6.03 min Scan# 811

Delta R.T. -0.00 min

Lab File: VX019293.D

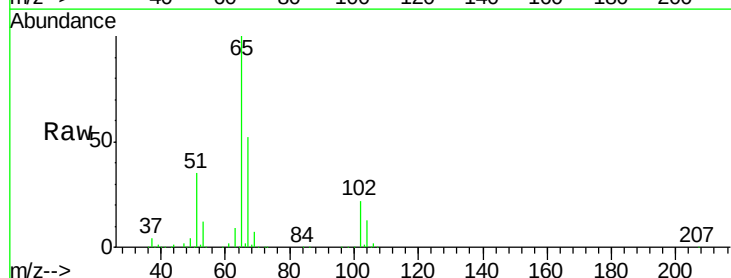
Acq: 05 Nov 2020 00:32

Tgt Ion: 65 Resp: 207450

Ion Ratio Lower Upper

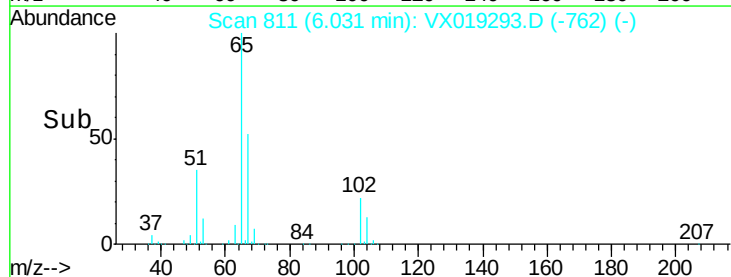
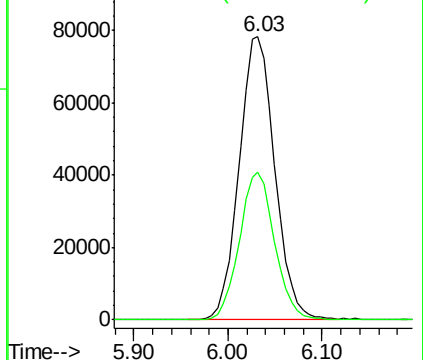
65 100

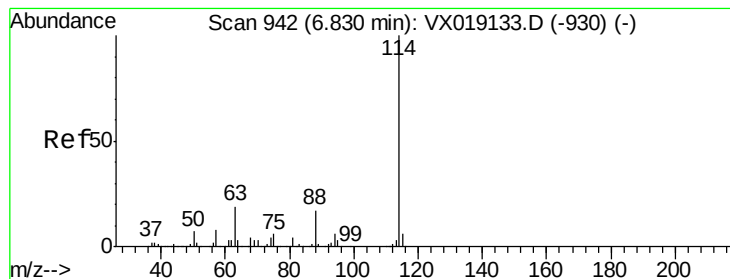
67 51.5 0.0 103.0



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. -0.00 min

Lab File: VX019293.D

Acq: 05 Nov 2020 00:32

Instrument :

MSVOA\_X

ClientSampleId :

OW-04

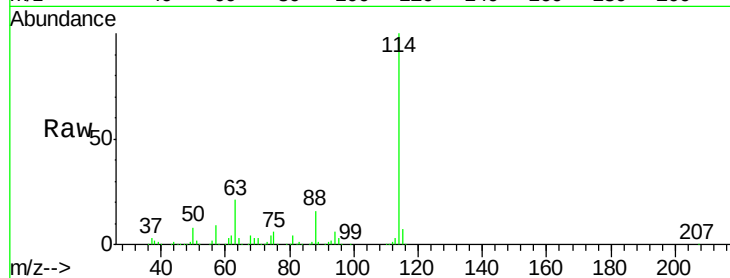
Tot Ion:114 Resp: 509144

Ion Ratio Lower Upper

114 100

63 21.2 0.0 38.8

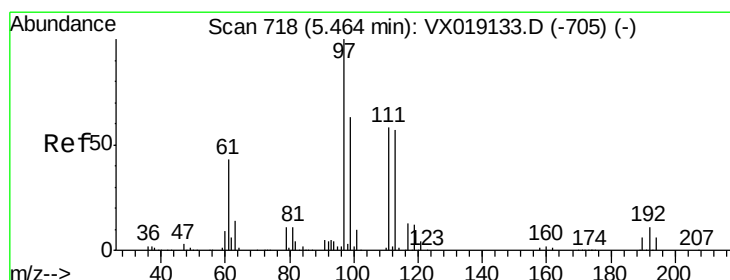
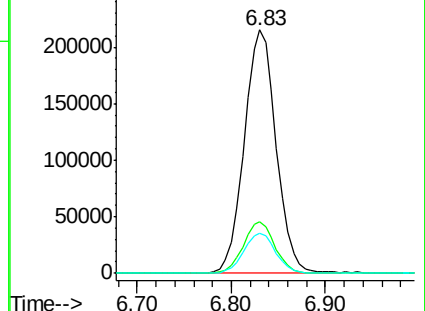
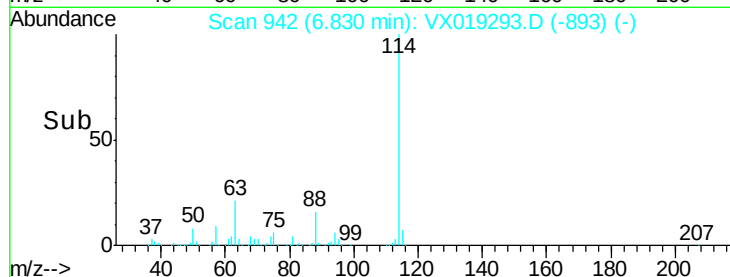
88 16.3 0.0 34.2



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: 51.178 ug/l

RT: 5.46 min Scan# 718

Delta R.T. -0.00 min

Lab File: VX019293.D

Acq: 05 Nov 2020 00:32

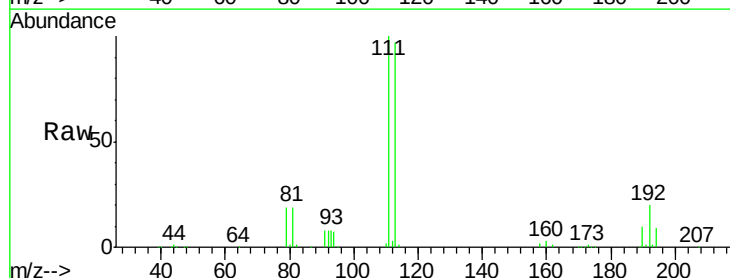
Tgt Ion:113 Resp: 163672

Ion Ratio Lower Upper

113 100

111 102.8 82.3 123.5

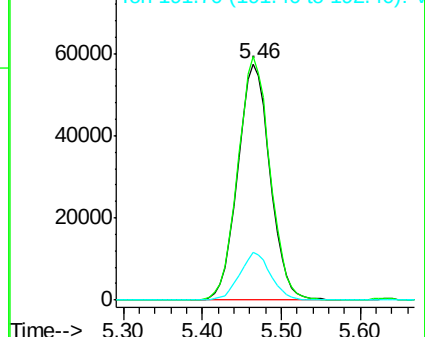
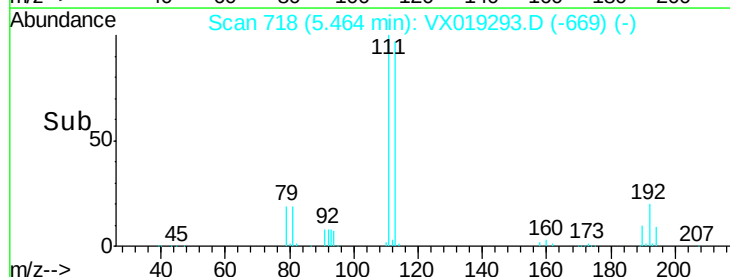
192 19.3 16.2 24.2

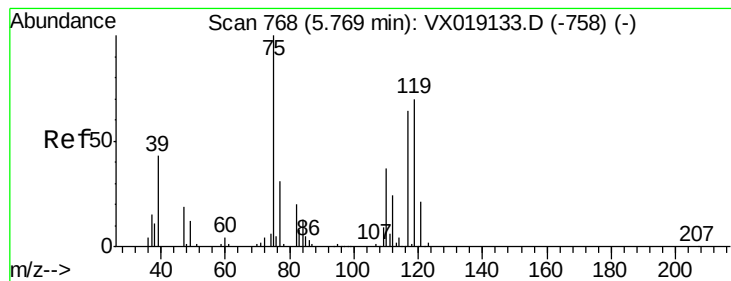


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 5.167 ug/l

RT: 5.63 min Scan# 745

Delta R.T. -0.14 min

Lab File: VX019293.D

Acq: 05 Nov 2020 00:32

Instrument :

MSVOA\_X

ClientSampleId :

OW-04

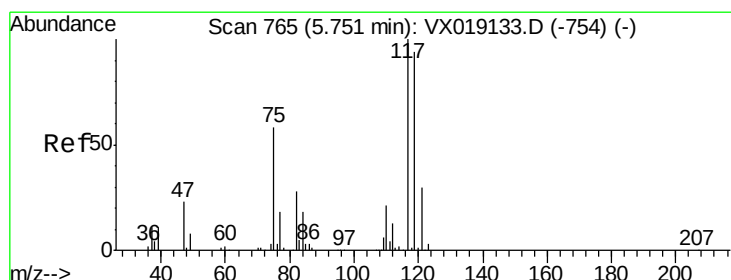
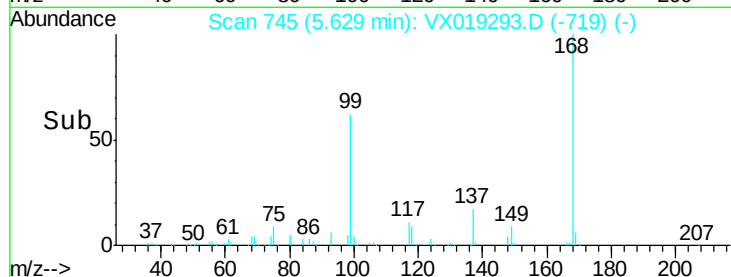
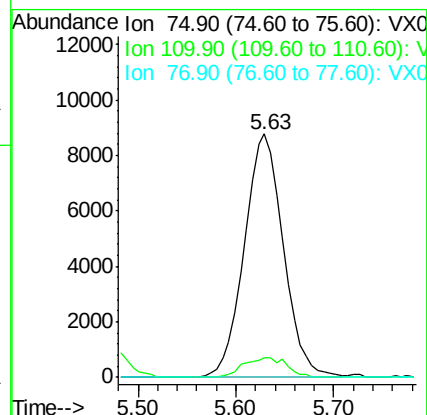
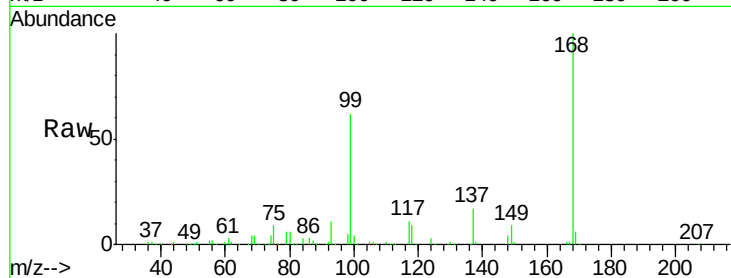
Tot Ion: 75 Resp: 24292

Ion Ratio Lower Upper

75 100

110 9.0 18.3 54.9#

77 0.0 24.9 37.3#



#38

Carbon Tetrachloride

Concen: 6.267 ug/l

RT: 5.63 min Scan# 745

Delta R.T. -0.12 min

Lab File: VX019293.D

Acq: 05 Nov 2020 00:32

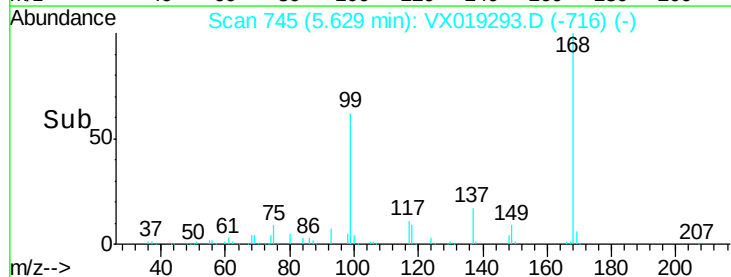
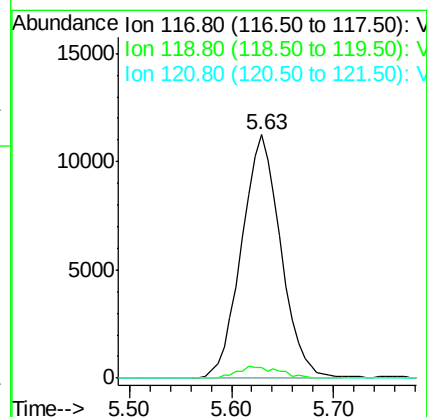
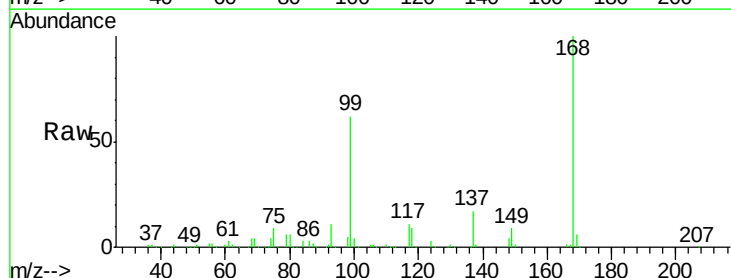
Tgt Ion: 117 Resp: 30034

Ion Ratio Lower Upper

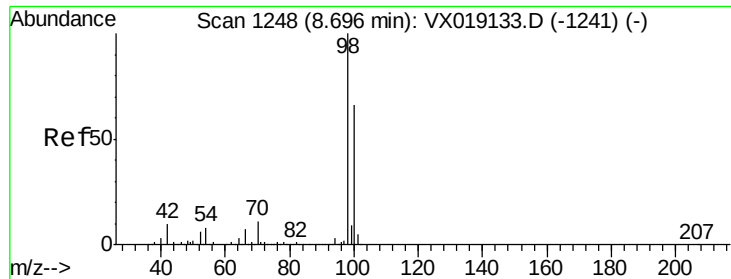
117 100

119 4.3 75.0 112.6#

121 0.0 23.9 35.9#



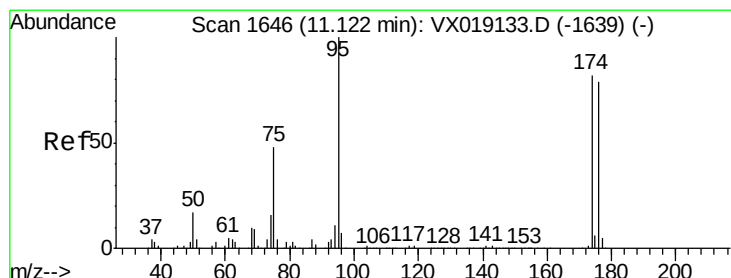
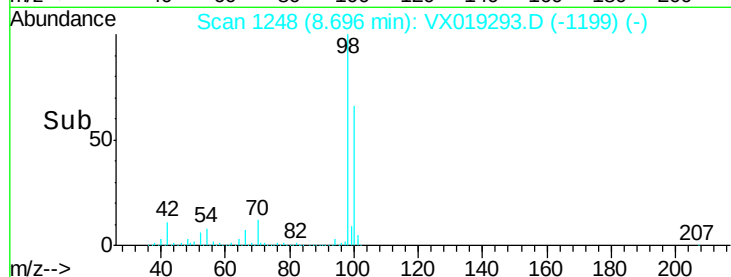
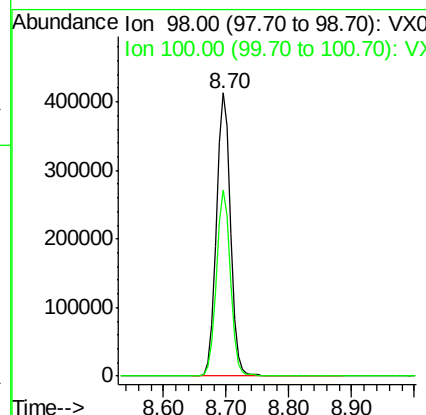
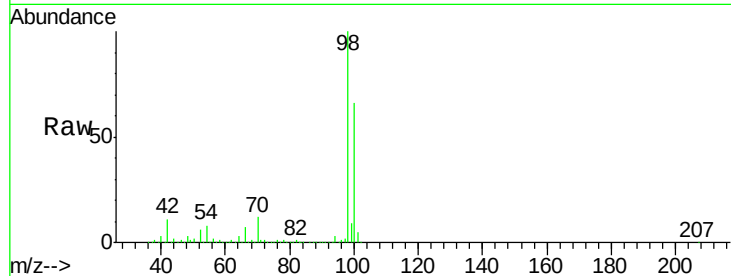




#50  
Toluene-d8  
Concen: 53.368 ug/l  
RT: 8.70 min Scan# 1248  
Delta R.T. -0.00 min  
Lab File: VX019293.D  
Acq: 05 Nov 2020 00:32

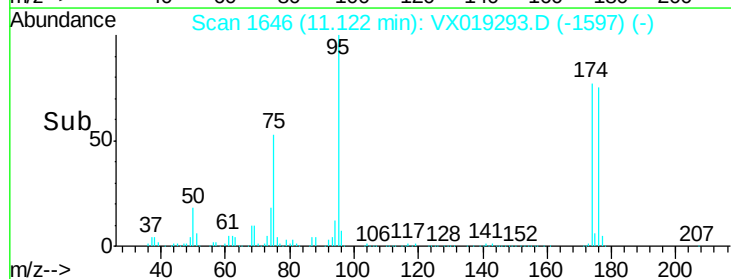
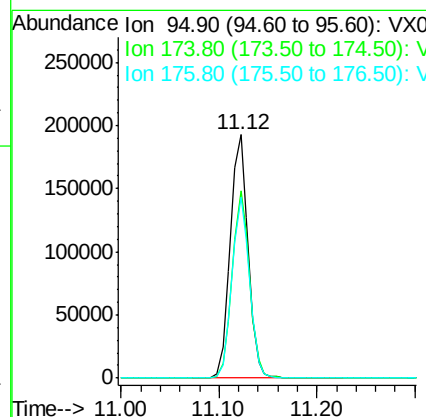
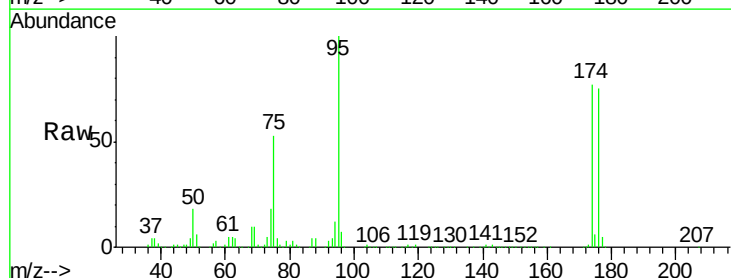
Instrument :  
MSVOA\_X  
ClientSampleId :  
OW-04

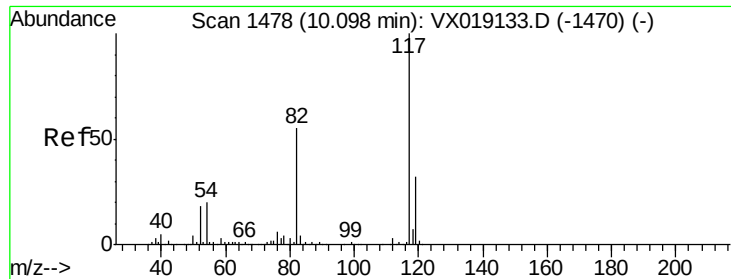
Tot Ion: 98 Resp: 643393  
Ion Ratio Lower Upper  
98 100  
100 65.3 53.0 79.6



#62  
4-Bromofluorobenzene  
Concen: 53.511 ug/l  
RT: 11.12 min Scan# 1646  
Delta R.T. -0.00 min  
Lab File: VX019293.D  
Acq: 05 Nov 2020 00:32

Tgt Ion: 95 Resp: 244311  
Ion Ratio Lower Upper  
95 100  
174 74.8 0.0 156.0  
176 73.1 0.0 149.8

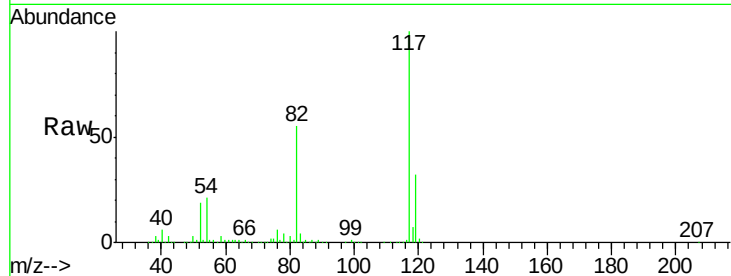




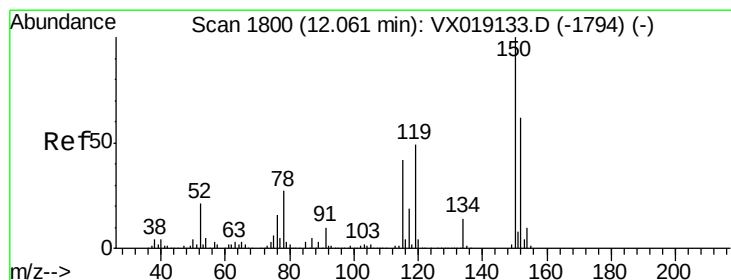
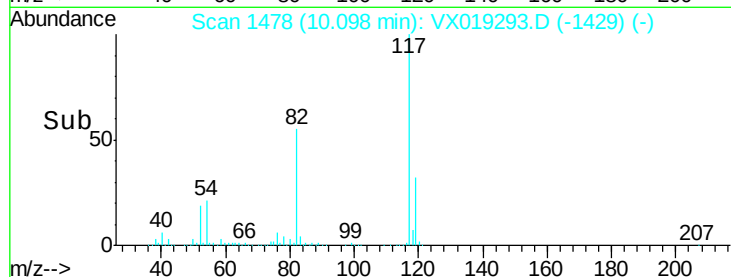
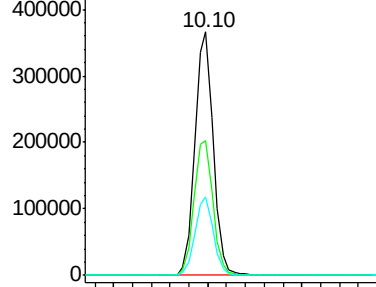
#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 10.10 min Scan# 1478  
Delta R.T. -0.00 min  
Lab File: VX019293.D  
Acq: 05 Nov 2020 00:32

Instrument :  
MSVOA\_X  
ClientSampled :  
OW-04

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 117     | 100   |       |       |
| 82      | 55.4  | 43.6  | 65.4  |
| 119     | 32.3  | 25.5  | 38.3  |

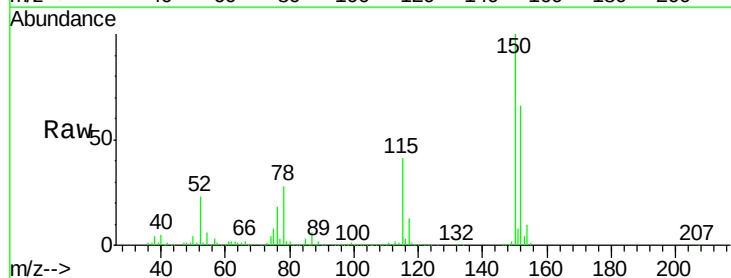


Abundance Ion 116.90 (116.60 to 117.60): V  
Ion 82.00 (81.70 to 82.70): VX0  
Ion 118.90 (118.60 to 119.60): V

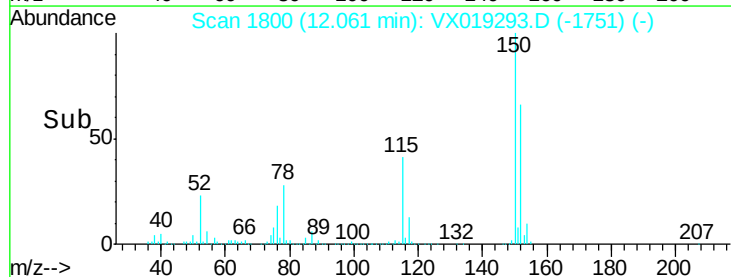
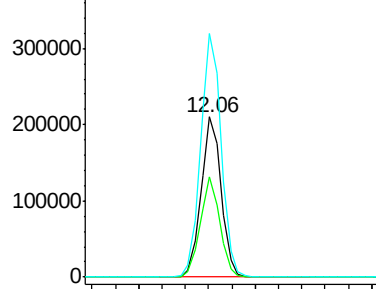


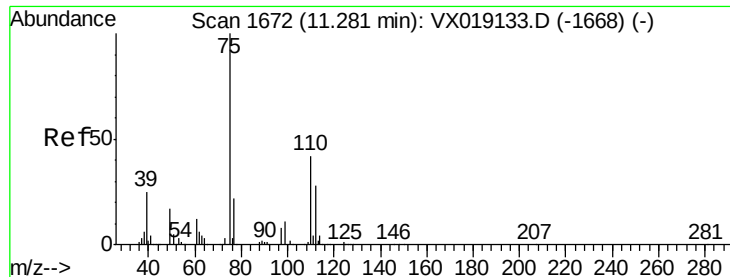
#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 12.06 min Scan# 1800  
Delta R.T. -0.00 min  
Lab File: VX019293.D  
Acq: 05 Nov 2020 00:32

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 115     | 61.0  | 41.9  | 125.7 |
| 150     | 155.3 | 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: 24.594 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.16 min

Lab File: VX019293.D

Acq: 05 Nov 2020 00:32

Instrument :

MSVOA\_X

ClientSampled :

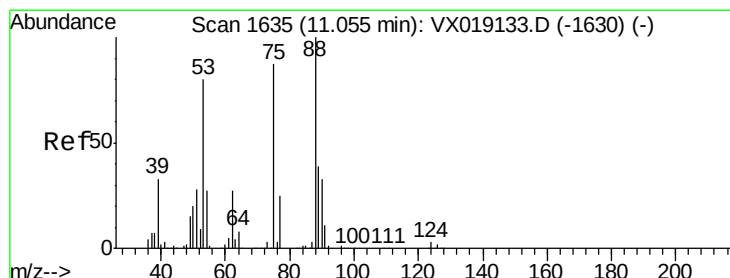
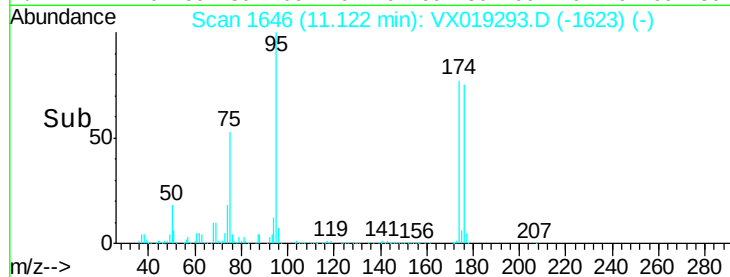
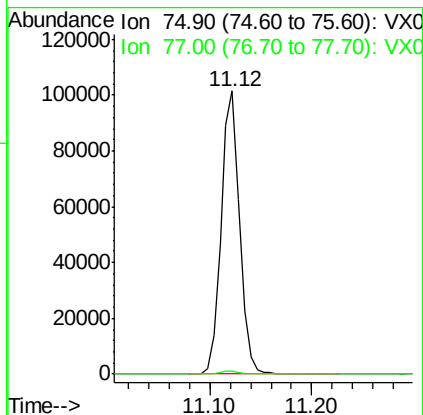
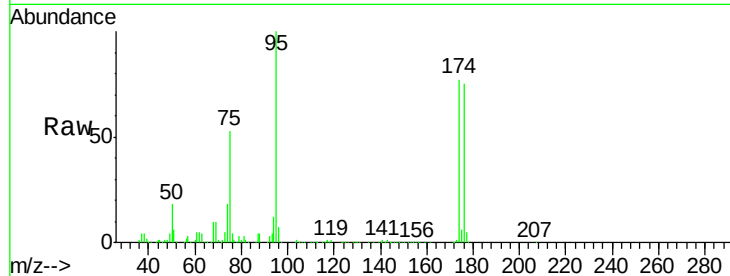
OW-04

Tot Ion: 75 Resp: 127617

Ion Ratio Lower Upper

75 100

77 1.1 20.3 60.9#



#81

trans-1,4-Dichloro-2-butene

Concen: 64.755 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.07 min

Lab File: VX019293.D

Acq: 05 Nov 2020 00:32

Tgt Ion: 75 Resp: 127617

Ion Ratio Lower Upper

75 100

53 0.0 73.3 109.9#

89 0.0 38.2 57.2#

