

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX052020\  
 Data File : VX016367.D  
 Acq On : 20 May 2020 17:53  
 Operator : JC/SP  
 Sample : L2684-02 40X  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 19 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 RW-4

Quant Time: May 21 03:54:29 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X050420W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed May 06 06:43:32 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.63  | 168  | 272922   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.84  | 114  | 460209   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.10 | 117  | 456447   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.06 | 152  | 233367   | 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   | 162887   | 45.36 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 90.72%  |          |
| 35) Dibromofluoromethane    | 5.47  | 113  | 135848   | 46.59 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 93.18%  |          |
| 50) Toluene-d8              | 8.70  | 98   | 563631   | 50.17 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 100.34% |          |
| 62) 4-Bromofluorobenzene    | 11.12 | 95   | 233472   | 54.64 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 109.28% |          |

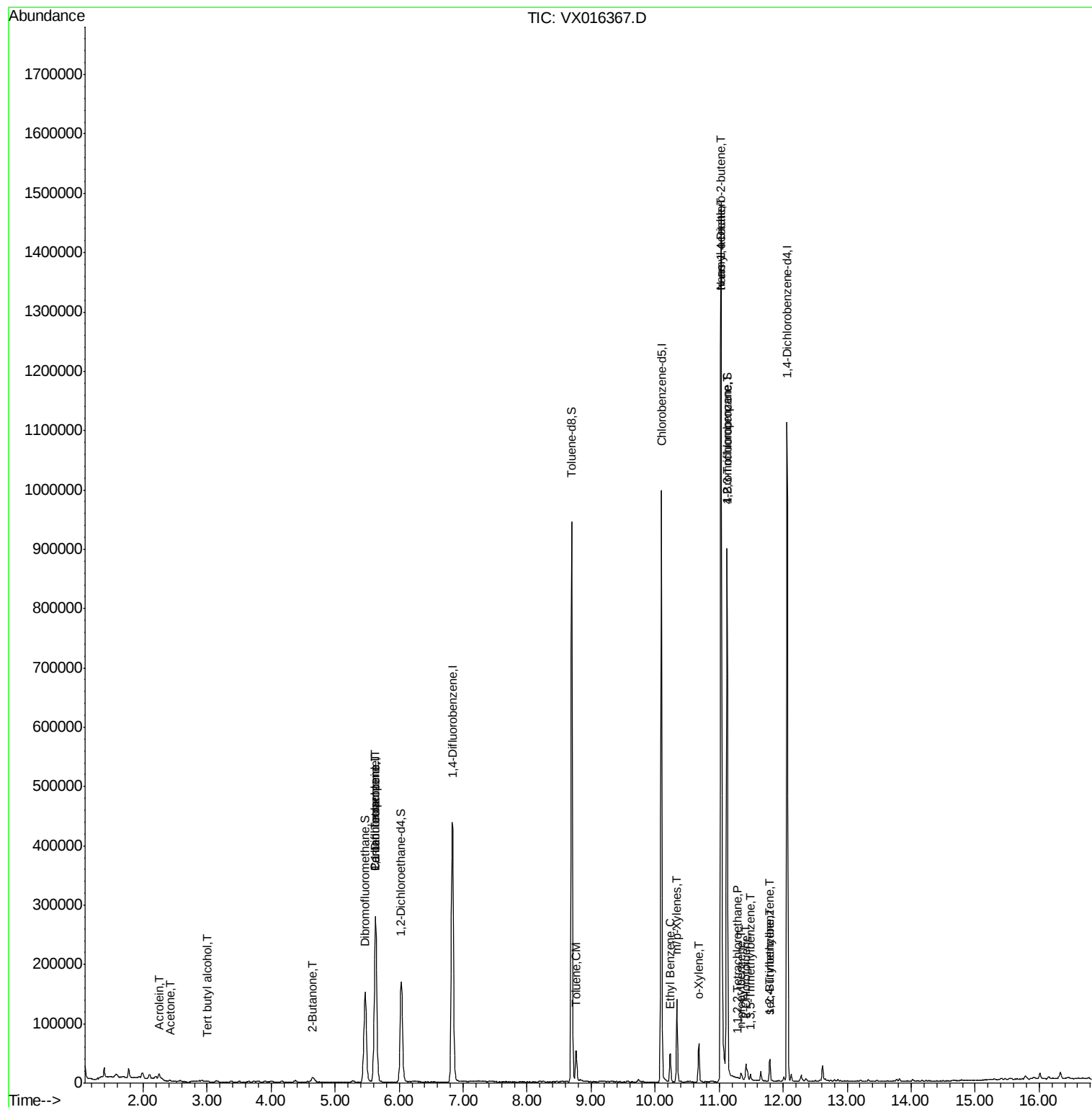
| Target Compounds               | R.T.  | QIon | Response | Conc      | Units  | Qvalue |
|--------------------------------|-------|------|----------|-----------|--------|--------|
| 11) Tert butyl alcohol         | 3.01  | 59   | 1040     | 1.145     | ug/l # | 61     |
| 13) Acrolein                   | 2.25  | 56   | 139      | 0.245     | ug/l # | 1      |
| 16) Acetone                    | 2.42  | 43   | 2514     | 1.569     | ug/l   | 92     |
| 17) Carbon Disulfide           | 2.56  | 76   | 1182     | Below Cal | #      | 77     |
| 25) 2-Butanone                 | 4.64  | 43   | 1010     | 0.391     | ug/l # | 48     |
| 36) 1,1-Dichloropropene        | 5.63  | 75   | 20612    | 4.550     | ug/l # | 49     |
| 38) Carbon Tetrachloride       | 5.63  | 117  | 26476    | 5.750     | ug/l # | 14     |
| 52) Toluene                    | 8.77  | 92   | 19735    | 2.389     | ug/l   | 98     |
| 67) Ethyl Benzene              | 10.24 | 91   | 29128    | 1.708     | ug/l   | 98     |
| 68) m/p-Xylenes                | 10.34 | 106  | 32337    | 5.061     | ug/l   | 100    |
| 69) o-Xylene                   | 10.68 | 106  | 14546    | 2.368     | ug/l   | 98     |
| 74) N-amyl acetate             | 11.03 | 43   | 48456    | 6.120     | ug/l # | 25     |
| 75) 1,1,2,2-Tetrachloroethane  | 11.28 | 83   | 20       | 2.055     | ug/l # | 26     |
| 76) 1,2,3-Trichloropropane     | 11.12 | 75   | 113897   | 21.508    | ug/l # | 35     |
| 78) n-propylbenzene            | 11.35 | 91   | 5114     | 0.259     | ug/l   | 98     |
| 79) 2-Chlorotoluene            | 11.41 | 91   | 2594     | 0.223     | ug/l # | 41     |
| 80) 1,3,5-Trimethylbenzene     | 11.49 | 105  | 4620     | 0.322     | ug/l   | 98     |
| 81) trans-1,4-Dichloro-2-buten | 11.03 | 75   | 65277    | 29.375    | ug/l # | 23     |
| 84) 1,2,4-Trimethylbenzene     | 11.79 | 105  | 16747    | 1.156     | ug/l   | 99     |
| 85) sec-Butylbenzene           | 11.79 | 105  | 16747    | 1.004     | ug/l # | 56     |

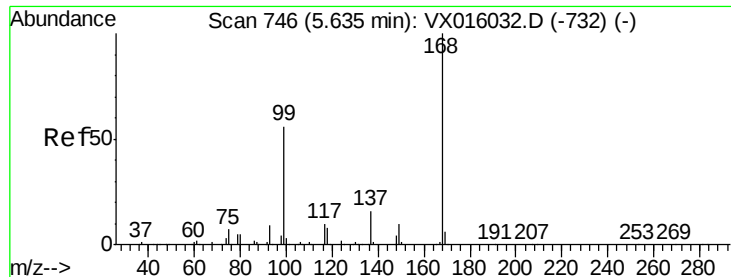
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_X\METHOD\82X050420W.M  
Quant Title : SW846 8260  
QLast Update : Wed May 06 06:43:32 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: VX016367.D

Acq: 20 May 2020 17:53

Instrument :

MSVOA\_X

ClientSampled :

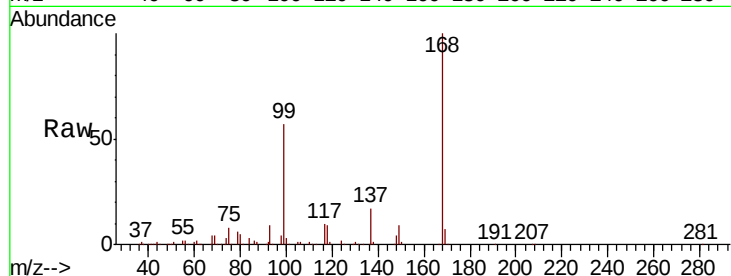
RW-4

Tot Ion:168 Resp: 272922

Ion Ratio Lower Upper

168 100

99 57.3 45.0 67.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.63

100000

80000

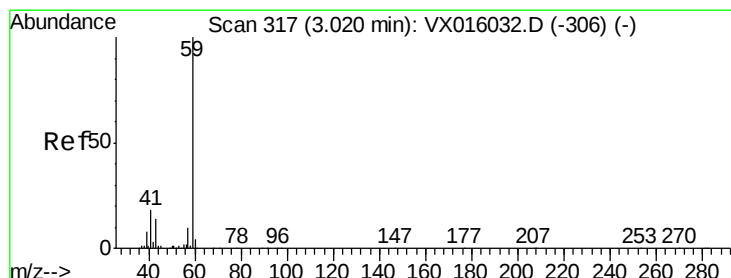
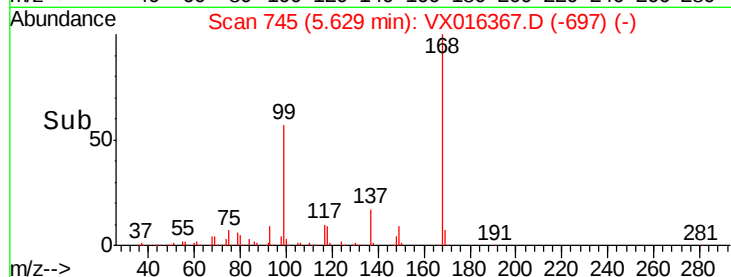
60000

40000

20000

0

Time-->



#11

Tert butyl alcohol

Concen: 1.145 ug/l

RT: 3.01 min Scan# 315

Delta R.T. -0.01 min

Lab File: VX016367.D

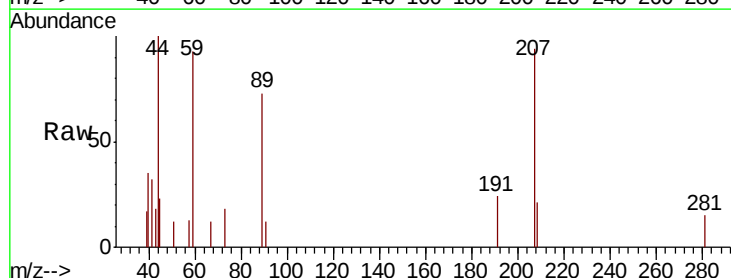
Acq: 20 May 2020 17:53

Tgt Ion: 59 Resp: 1040

Ion Ratio Lower Upper

59 100

57 24.9 8.2 12.4#



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0

3.01

500

400

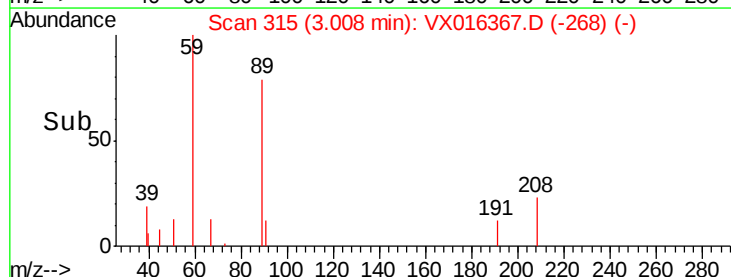
300

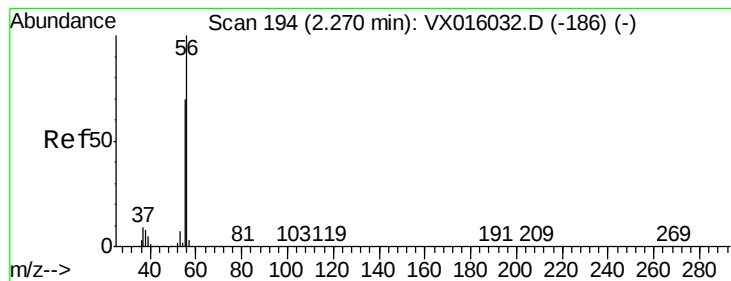
200

100

0

Time-->





#13

Acrolein

Concen: 0.245 ug/l

RT: 2.25 min Scan# 191

Delta R.T. -0.02 min

Lab File: VX016367.D

Acq: 20 May 2020 17:53

Instrument :

MSVOA\_X

ClientSampleId :

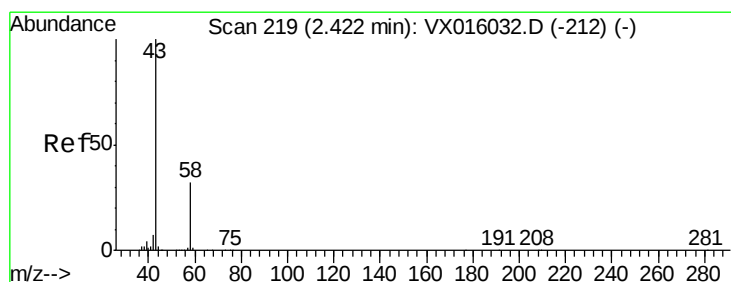
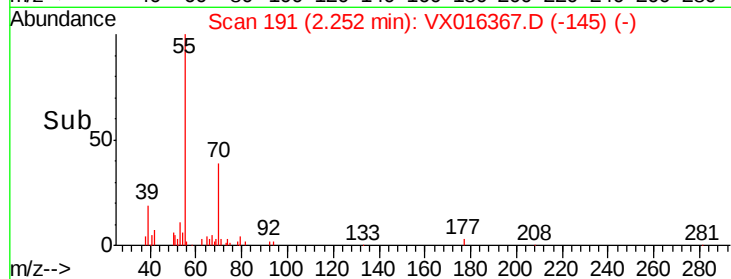
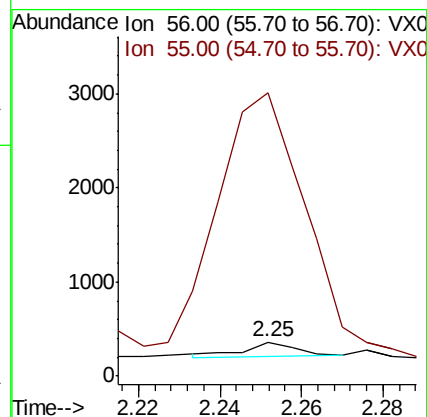
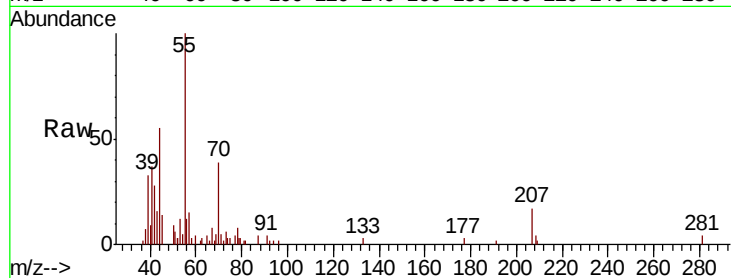
RW-4

Tot Ion: 56 Resp: 139

Ion Ratio Lower Upper

56 100

55 3087.1 56.5 84.7#



#16

Acetone

Concen: 1.569 ug/l

RT: 2.42 min Scan# 218

Delta R.T. -0.01 min

Lab File: VX016367.D

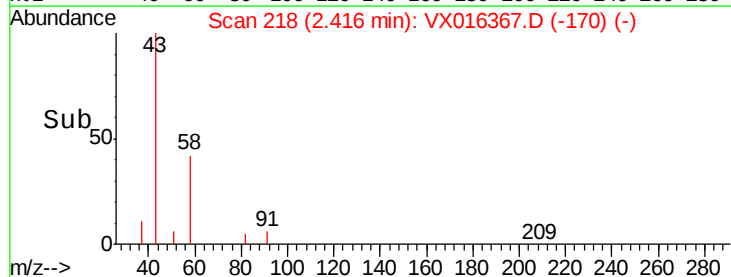
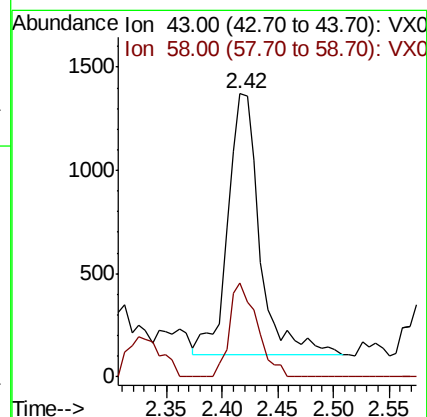
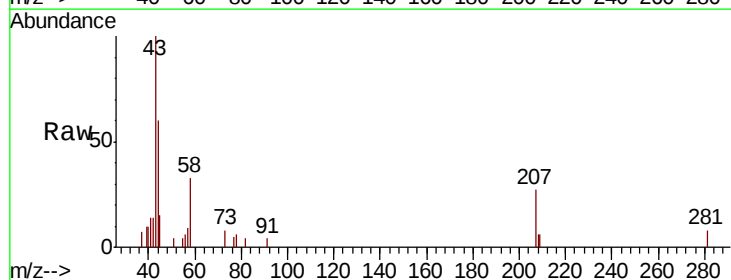
Acq: 20 May 2020 17:53

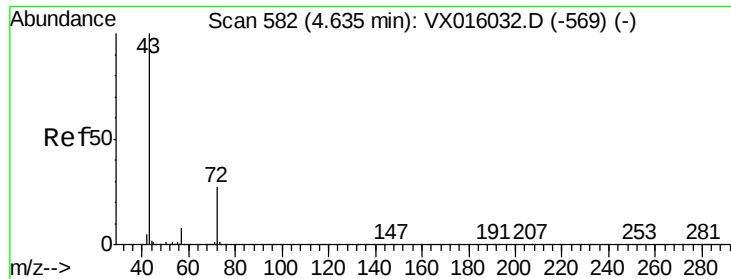
Tgt Ion: 43 Resp: 2514

Ion Ratio Lower Upper

43 100

58 36.2 25.4 38.0

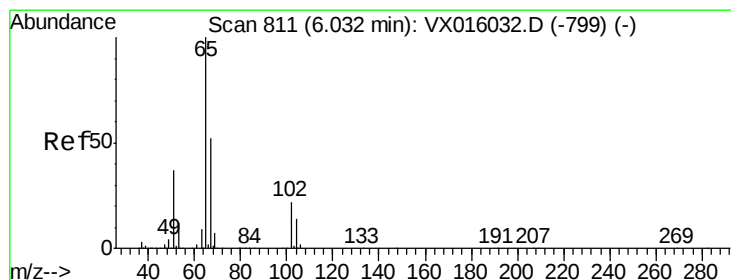
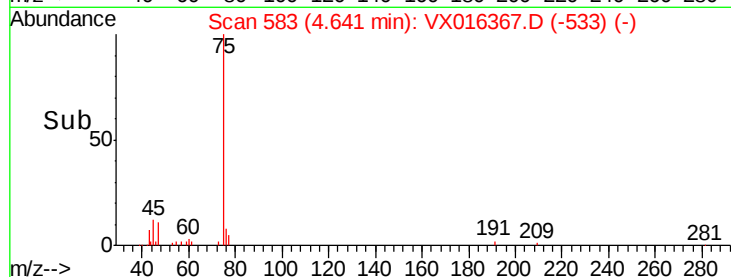
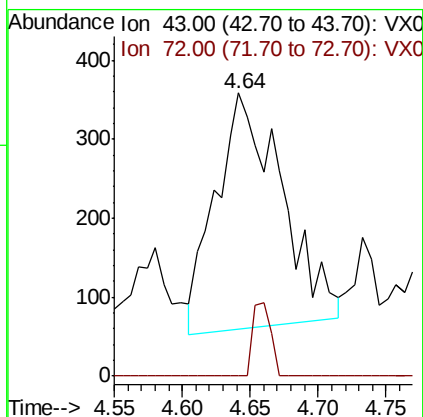
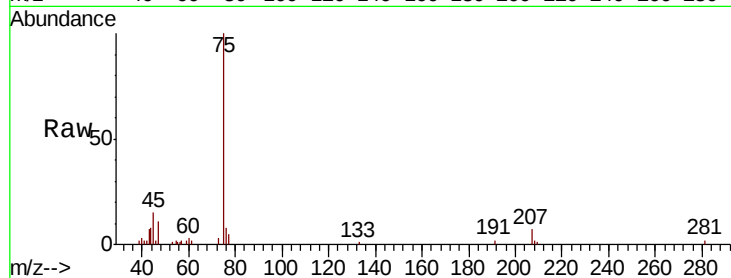




#25  
2-Butanone  
Concen: 0.391 ug/l  
RT: 4.64 min Scan# 583  
Delta R.T. 0.01 min  
Lab File: VX016367.D  
Acq: 20 May 2020 17:53

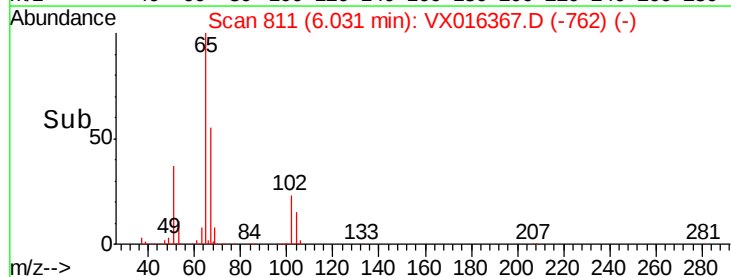
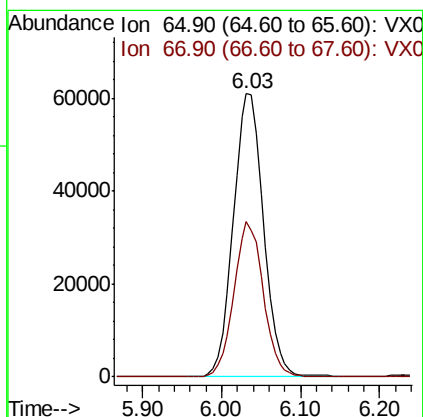
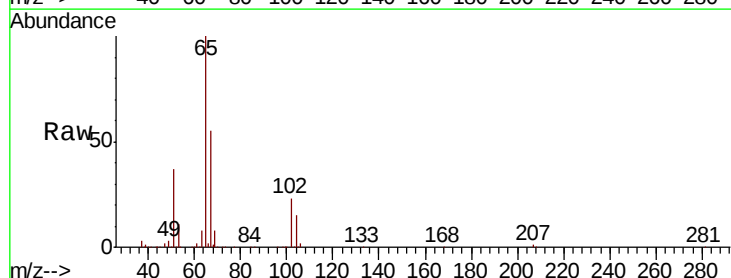
Instrument :  
MSVOA\_X  
ClientSampleId :  
RW-4

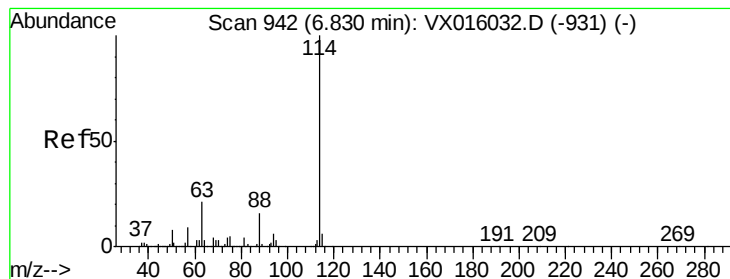
Tot Ion: 43 Resp: 1010  
Ion Ratio Lower Upper  
43 100  
72 0.0 21.8 32.8#



#33  
1,2-Dichloroethane-d4  
Concen: 45.355 ug/l  
RT: 6.03 min Scan# 811  
Delta R.T. -0.00 min  
Lab File: VX016367.D  
Acq: 20 May 2020 17:53

Tgt Ion: 65 Resp: 162887  
Ion Ratio Lower Upper  
65 100  
67 53.1 0.0 104.8





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.84 min Scan# 943

Delta R.T. 0.01 min

Lab File: VX016367.D

Acq: 20 May 2020 17:53

Instrument :

MSVOA\_X

ClientSampleId :

RW-4

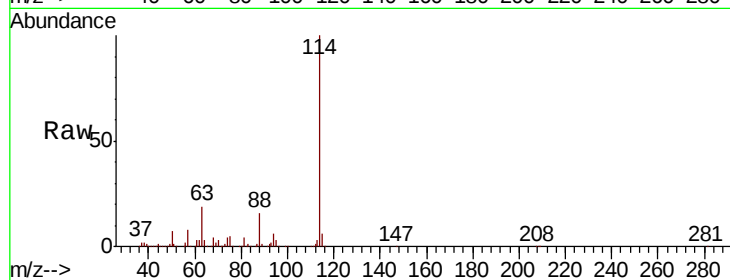
Tot Ion:114 Resp: 460209

Ion Ratio Lower Upper

114 100

63 18.6 0.0 42.8

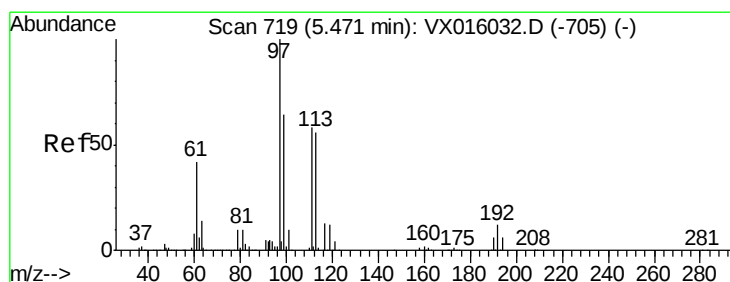
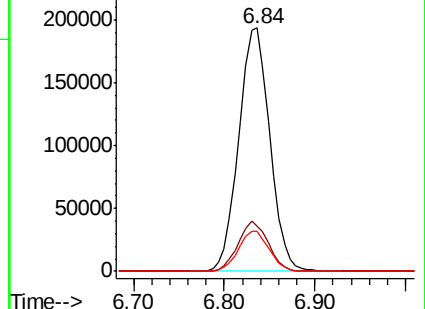
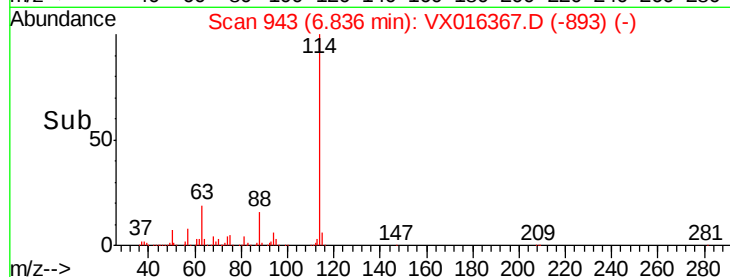
88 16.2 0.0 31.4



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: 46.593 ug/l

RT: 5.47 min Scan# 719

Delta R.T. -0.00 min

Lab File: VX016367.D

Acq: 20 May 2020 17:53

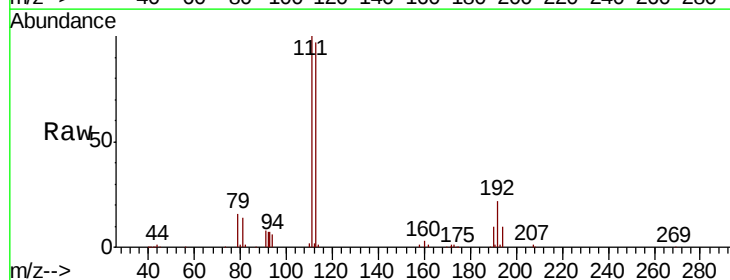
Tgt Ion:113 Resp: 135848

Ion Ratio Lower Upper

113 100

111 101.9 81.6 122.4

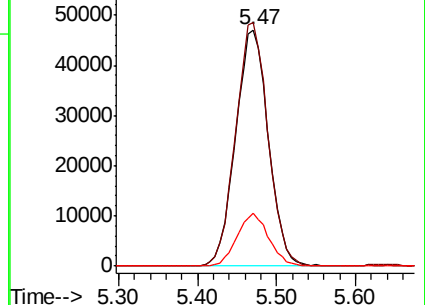
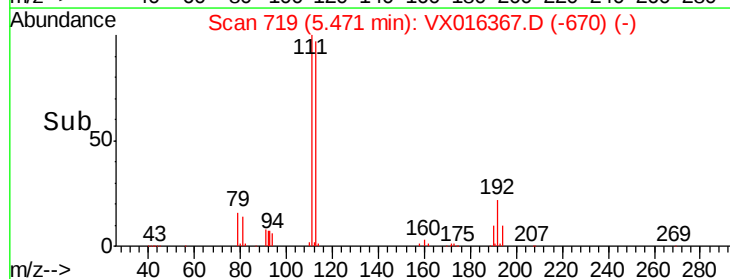
192 21.5 17.0 25.4

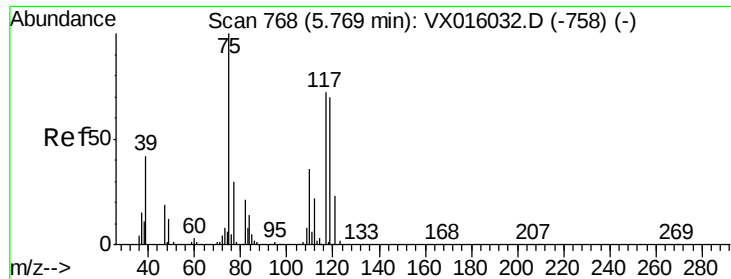


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 4.550 ug/l

RT: 5.63 min Scan# 745

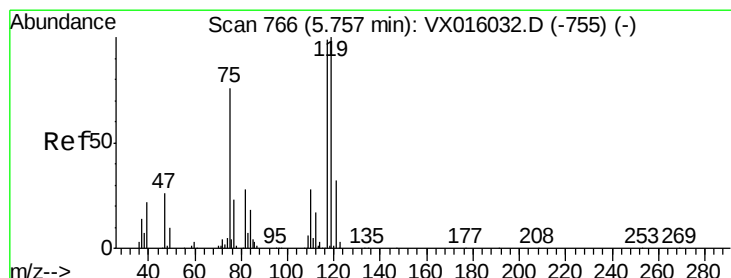
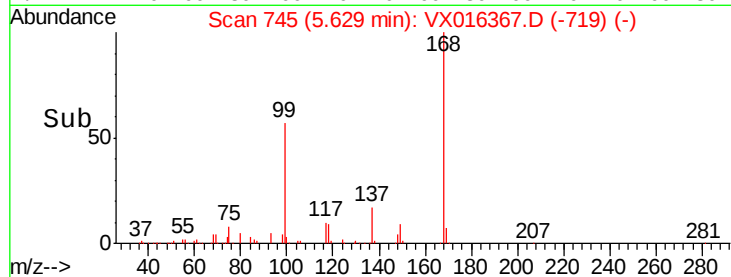
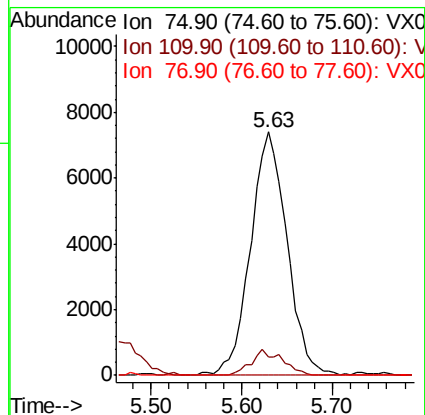
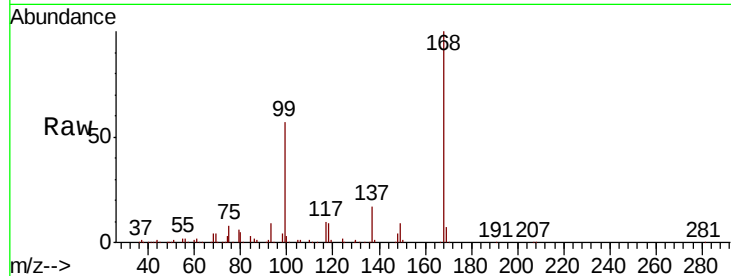
Delta R.T. -0.14 min

Lab File: VX016367.D

Acq: 20 May 2020 17:53

Instrument :  
MSVOA\_X  
ClientSampleId :  
RW-4

|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 75    | Resp: | 20612 |
| Ion      | Ratio | Lower | Upper |
| 75       | 100   |       |       |
| 110      | 9.0   | 18.1  | 54.1# |
| 77       | 0.0   | 25.0  | 37.6# |



#38

Carbon Tetrachloride

Concen: 5.750 ug/l

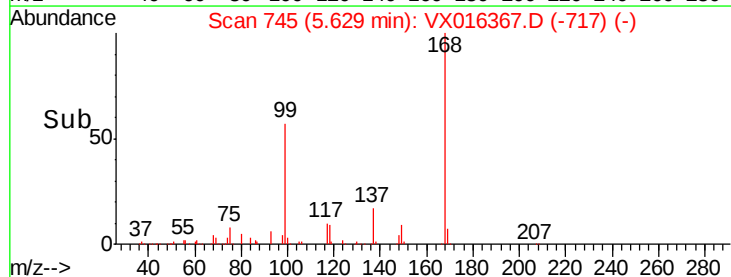
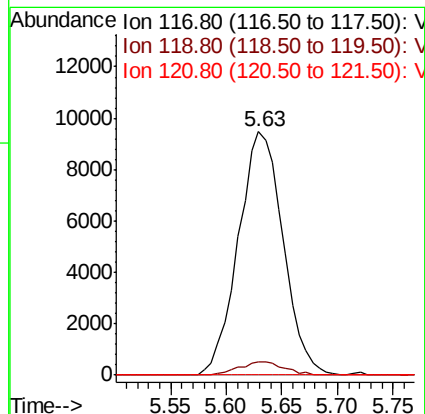
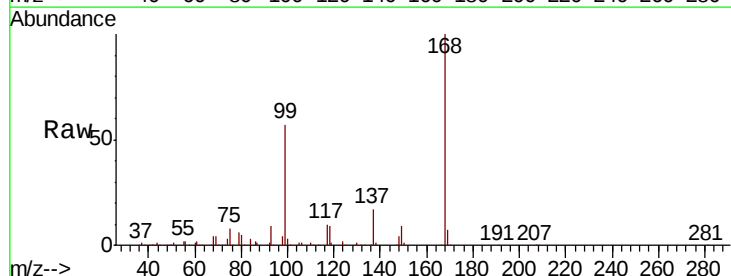
RT: 5.63 min Scan# 745

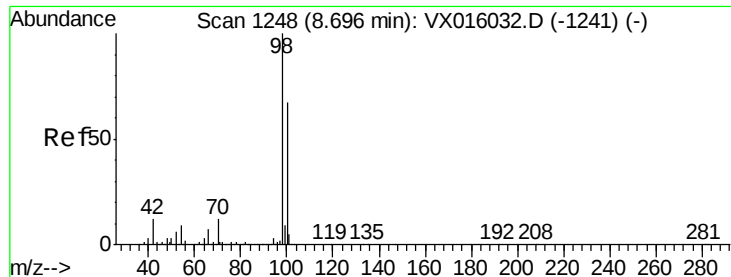
Delta R.T. -0.13 min

Lab File: VX016367.D

Acq: 20 May 2020 17:53

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 117   | Resp: | 26476  |
| Ion      | Ratio | Lower | Upper  |
| 117      | 100   |       |        |
| 119      | 5.3   | 80.3  | 120.5# |
| 121      | 0.0   | 25.7  | 38.5#  |





#50

Toluene-d8

Concen: 50.172 ug/l

RT: 8.70 min Scan# 1248

Delta R.T. -0.00 min

Lab File: VX016367.D

Acq: 20 May 2020 17:53

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MSVOA\_X

ClientSampleId :

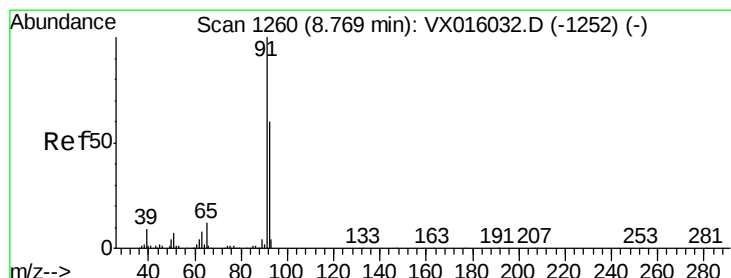
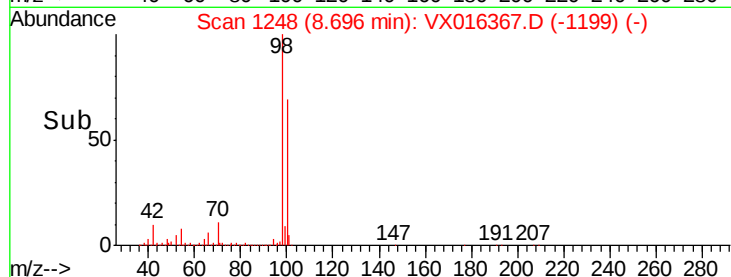
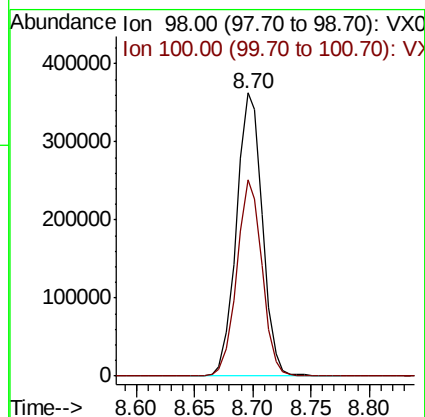
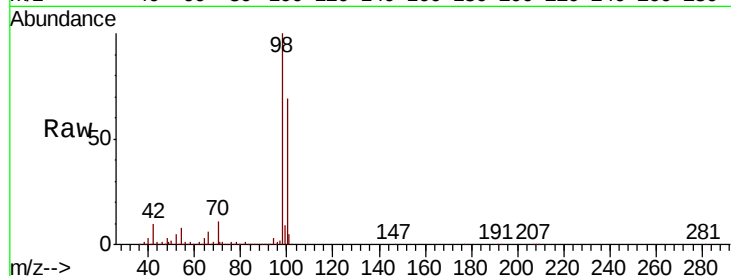
RW-4

Tot Ion: 98 Resp: 563631

Ion Ratio Lower Upper

98 100

100 67.6 53.7 80.5



#52

Toluene

Concen: 2.389 ug/l

RT: 8.77 min Scan# 1260

Delta R.T. -0.00 min

Lab File: VX016367.D

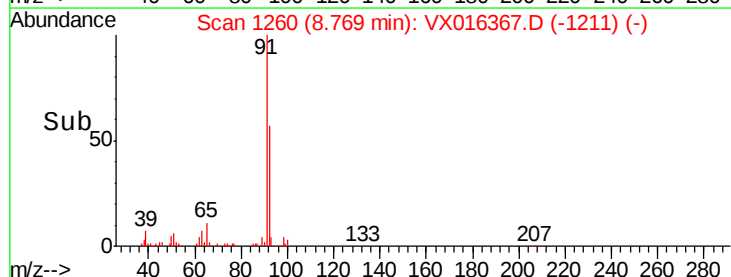
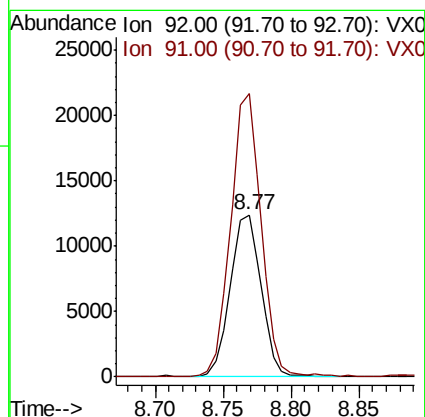
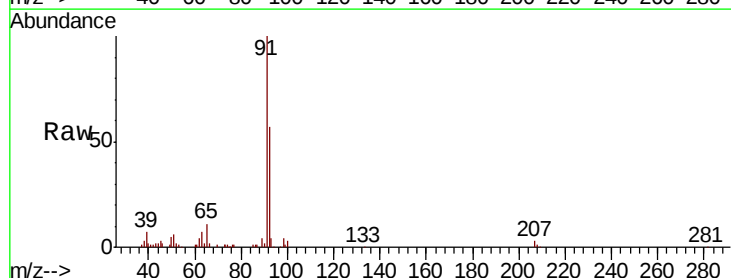
Acq: 20 May 2020 17:53

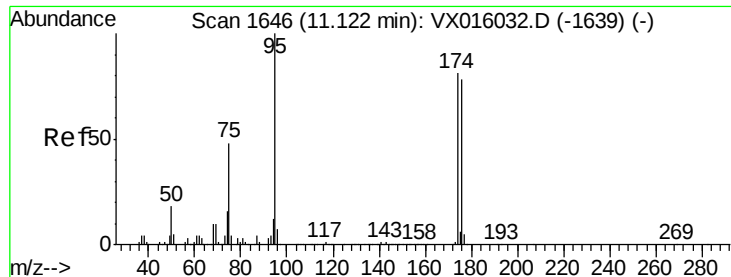
Tgt Ion: 92 Resp: 19735

Ion Ratio Lower Upper

92 100

91 170.5 134.5 201.7

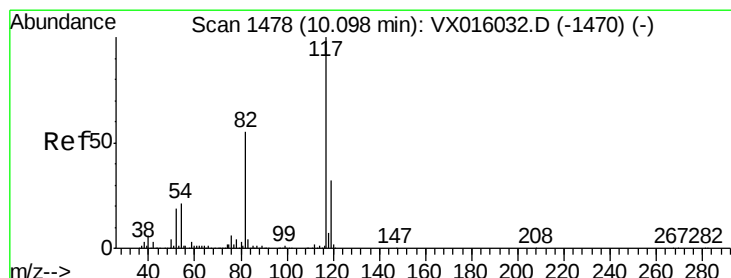
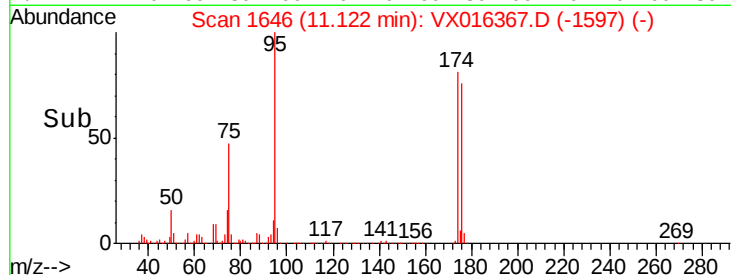
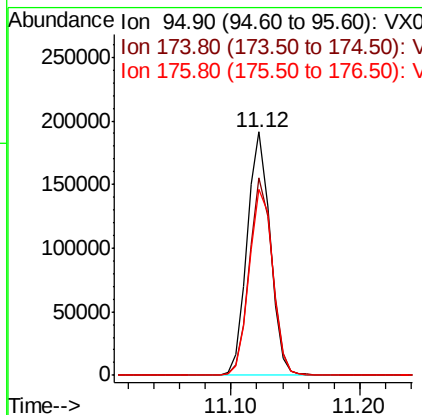
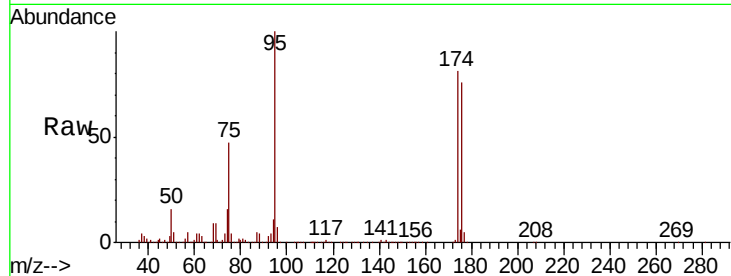




#62  
4-Bromofluorobenzene  
Concen: 54.640 ug/l  
RT: 11.12 min Scan# 1646  
Delta R.T. -0.00 min  
Lab File: VX016367.D  
Acq: 20 May 2020 17:53

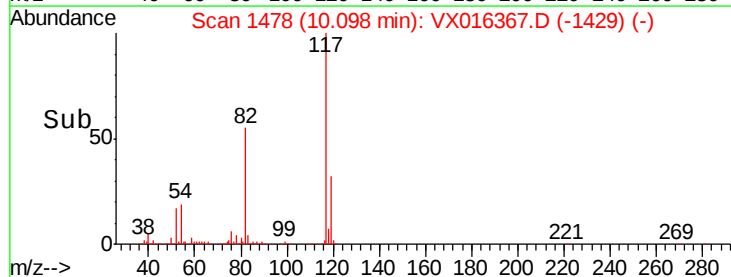
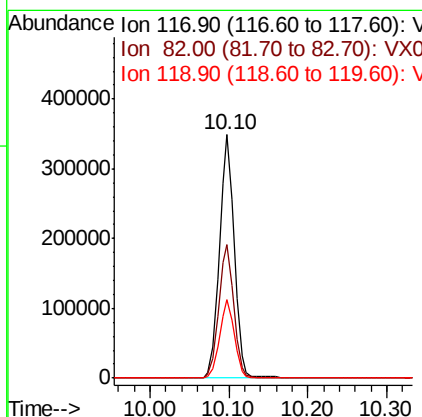
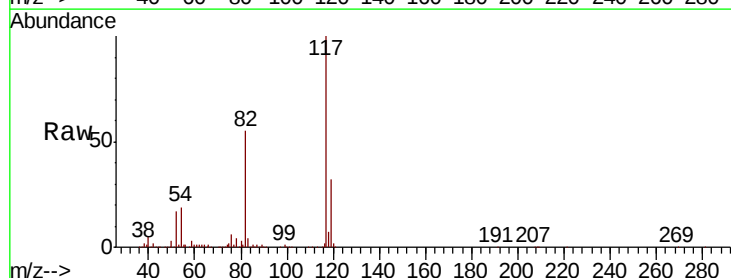
Instrument :  
MSVOA\_X  
ClientSampled :  
RW-4

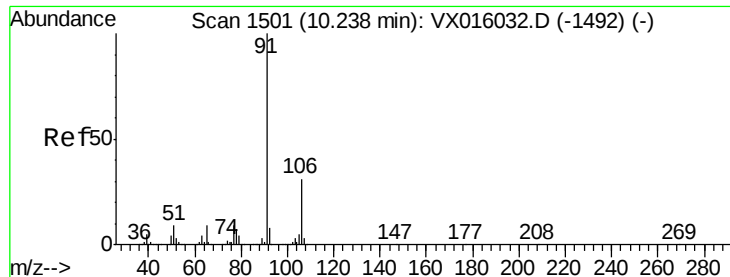
Tot Ion: 95 Resp: 233472  
Ion Ratio Lower Upper  
95 100  
174 80.9 0.0 159.4  
176 78.5 0.0 157.6



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 10.10 min Scan# 1478  
Delta R.T. -0.00 min  
Lab File: VX016367.D  
Acq: 20 May 2020 17:53

Tgt Ion: 117 Resp: 456447  
Ion Ratio Lower Upper  
117 100  
82 54.7 44.4 66.6  
119 32.1 25.5 38.3





#67

Ethyl Benzene

Concen: 1.708 ug/l

RT: 10.24 min Scan# 1501

Delta R.T. -0.00 min

Lab File: VX016367.D

Acq: 20 May 2020 17:53

Instrument :

MSVOA\_X

ClientSampleId :

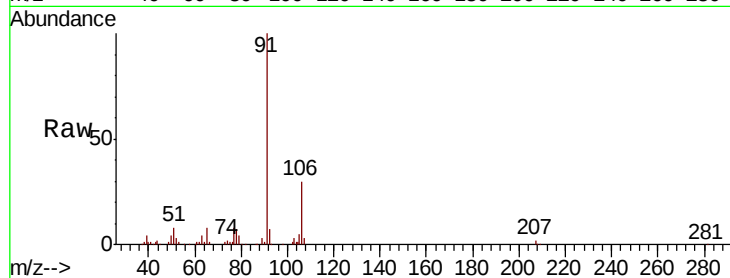
RW-4

Tot Ion: 91 Resp: 29128

Ion Ratio Lower Upper

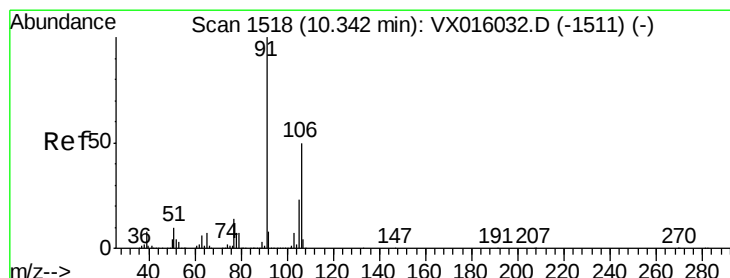
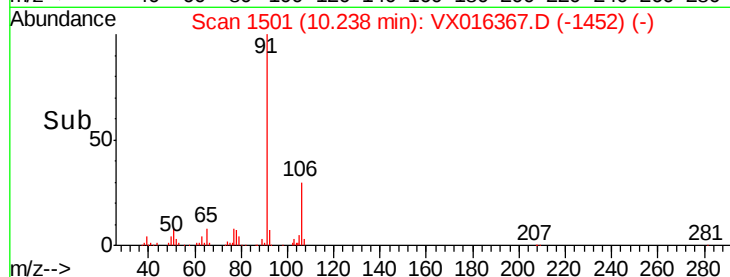
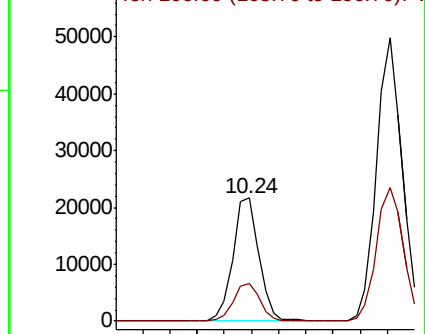
91 100

106 30.1 25.1 37.7



Abundance Ion 91.00 (90.70 to 91.70): VX016367.D

Ion 106.00 (105.70 to 106.70): VX016367.D



#68

m/p-Xylenes

Concen: 5.061 ug/l

RT: 10.34 min Scan# 1518

Delta R.T. -0.00 min

Lab File: VX016367.D

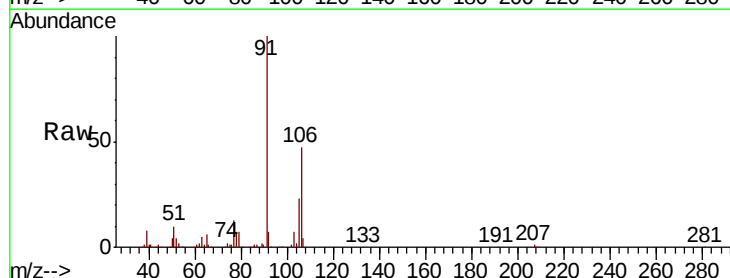
Acq: 20 May 2020 17:53

Tgt Ion: 106 Resp: 32337

Ion Ratio Lower Upper

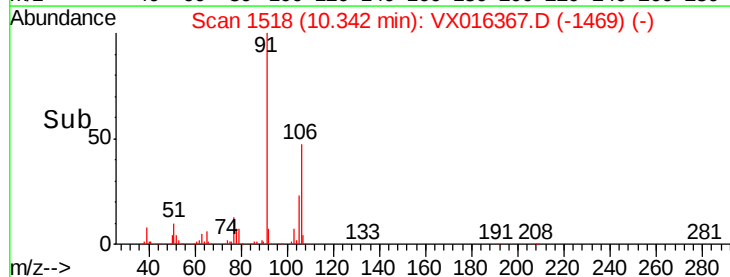
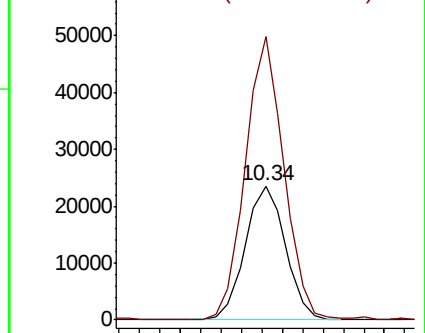
106 100

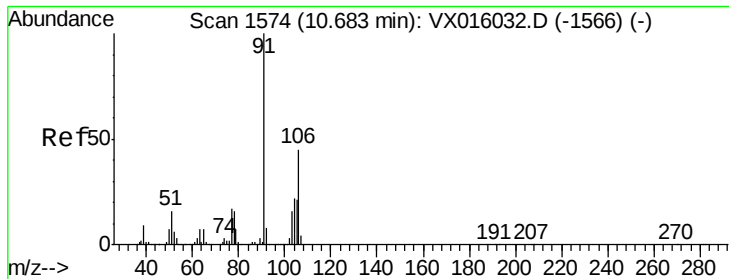
91 202.6 161.7 242.5



Abundance Ion 106.00 (105.70 to 106.70): VX016367.D

Ion 91.00 (90.70 to 91.70): VX016367.D

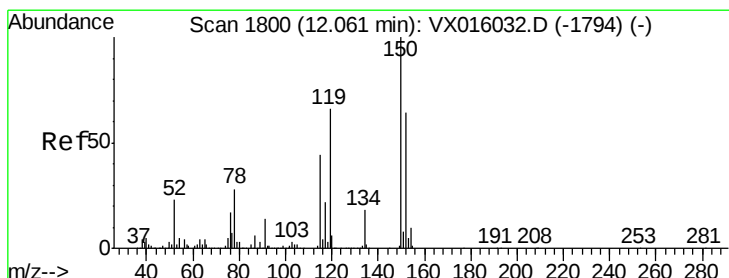
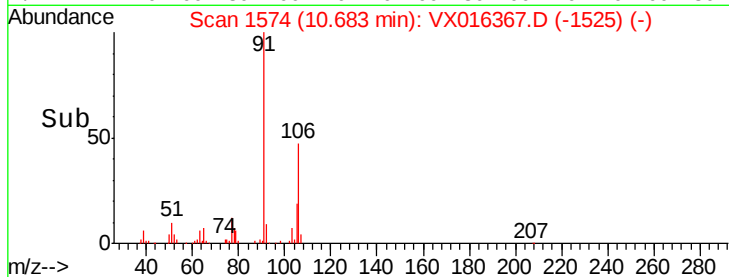
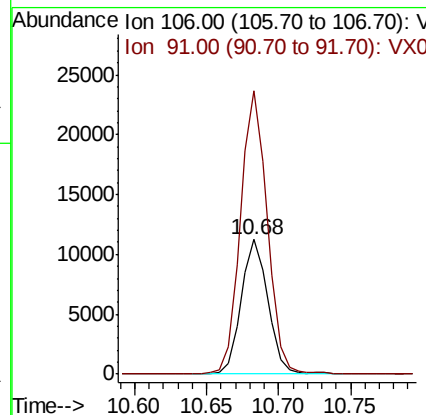
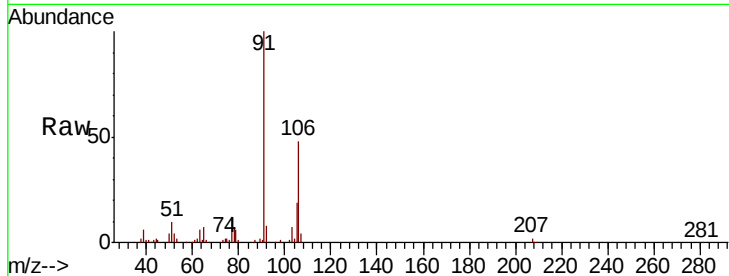




#69  
o-Xylene  
Concen: 2.368 ug/l  
RT: 10.68 min Scan# 1574  
Delta R.T. -0.00 min  
Lab File: VX016367.D  
Acq: 20 May 2020 17:53

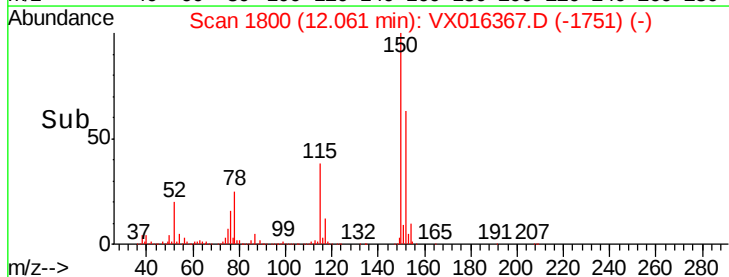
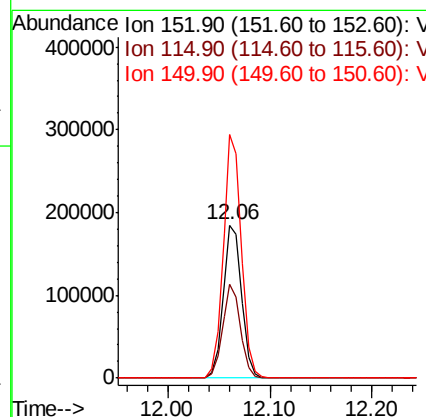
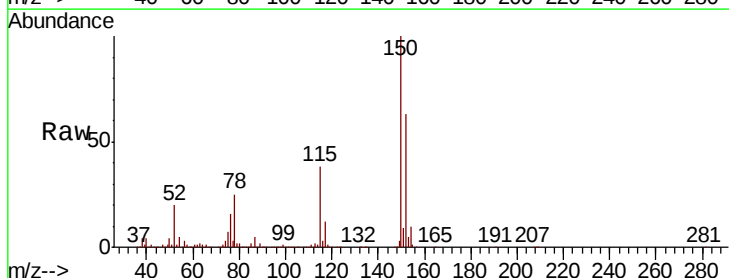
Instrument :  
MSVOA\_X  
ClientSampled :  
RW-4

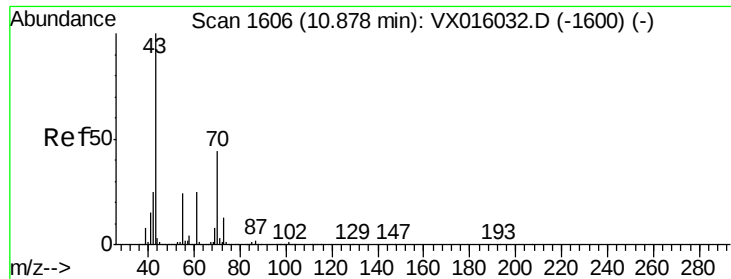
Tot Ion:106 Resp: 14546  
Ion Ratio Lower Upper  
106 100  
91 211.9 107.5 322.6



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 12.06 min Scan# 1800  
Delta R.T. -0.00 min  
Lab File: VX016367.D  
Acq: 20 May 2020 17:53

Tgt Ion:152 Resp: 233367  
Ion Ratio Lower Upper  
152 100  
115 59.4 41.3 124.1  
150 156.0 0.0 352.2





#74

N-amvl acetate

Concen: 6.120 ug/l

RT: 11.03 min Scan# 1631

Delta R.T. 0.15 min

Lab File: VX016367.D

Acq: 20 May 2020 17:53

Instrument :

MSVOA\_X

ClientSampled :

RW-4

Tot Ion: 43 Resp: 48456

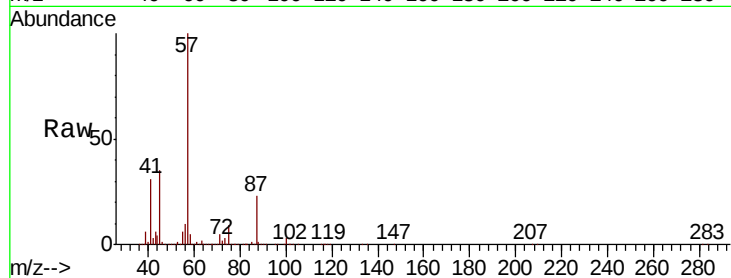
Ion Ratio Lower Upper

43 100

70 2.5 36.5 54.7#

55 96.6 19.7 29.5#

61 13.3 20.9 31.3#

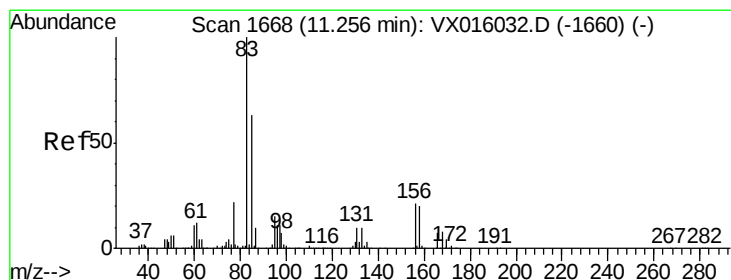
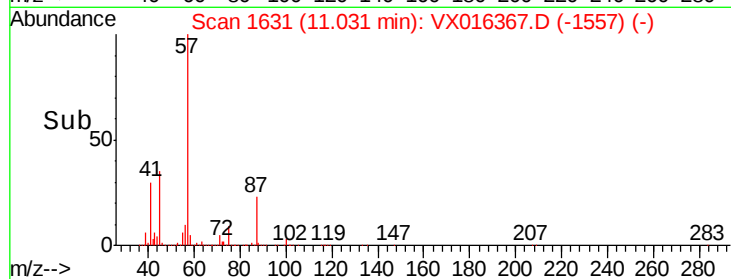
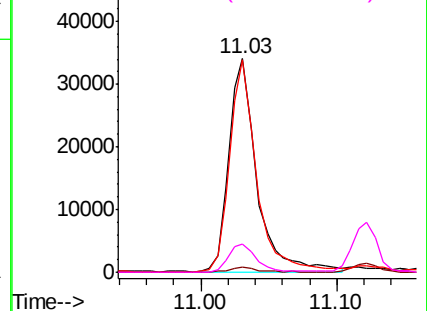


Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 70.00 (69.70 to 70.70): VX0

Ion 55.00 (54.70 to 55.70): VX0

Ion 61.00 (60.70 to 61.70): VX0



#75

1,1,2,2-Tetrachloroethane

Concen: 2.055 ug/l

RT: 11.28 min Scan# 1672

Delta R.T. 0.02 min

Lab File: VX016367.D

Acq: 20 May 2020 17:53

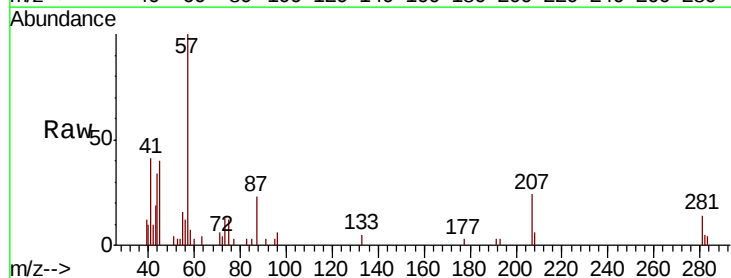
Tgt Ion: 83 Resp: 20

Ion Ratio Lower Upper

83 100

131 0.0 5.1 15.4#

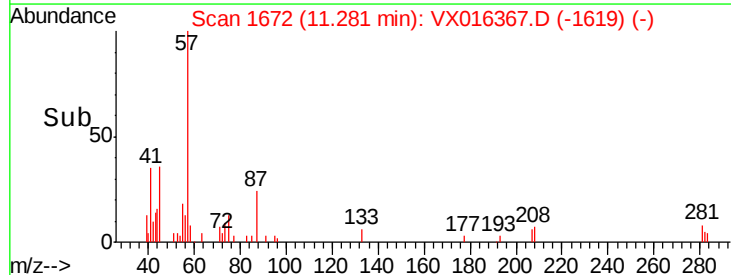
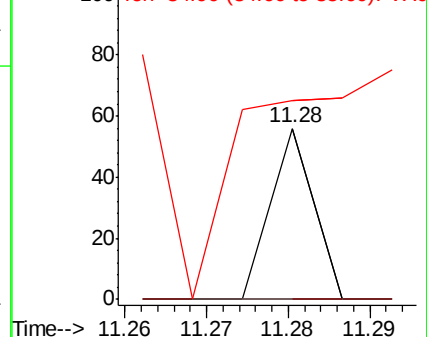
85 0.0 32.0 96.0#

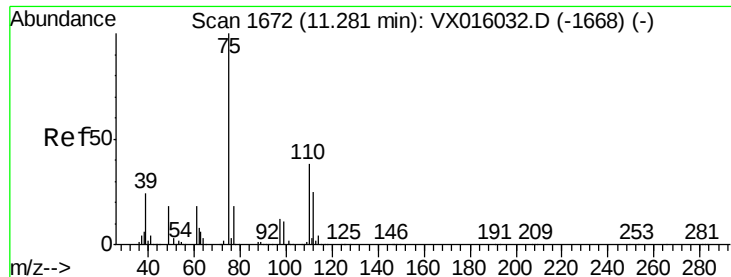


Abundance Ion 82.90 (82.60 to 83.60): VX0

Ion 130.80 (130.50 to 131.50): V

Ion 84.90 (84.60 to 85.60): VX0





#76

1,2,3-Trichloropropane

Concen: 21.508 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.16 min

Lab File: VX016367.D

Acq: 20 May 2020 17:53

Instrument :

MSVOA\_X

ClientSampleId :

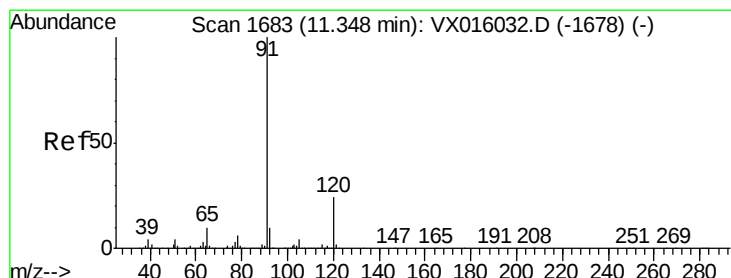
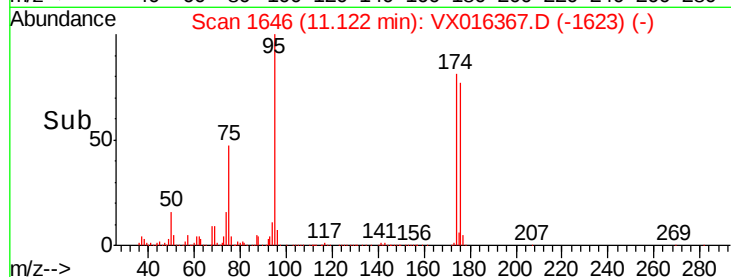
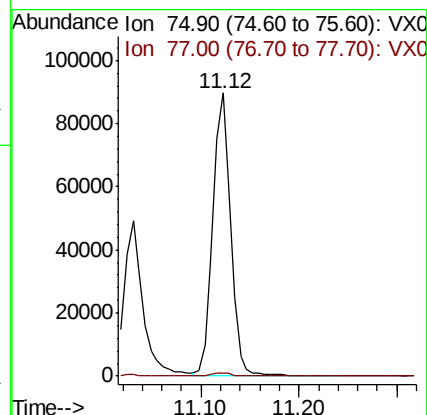
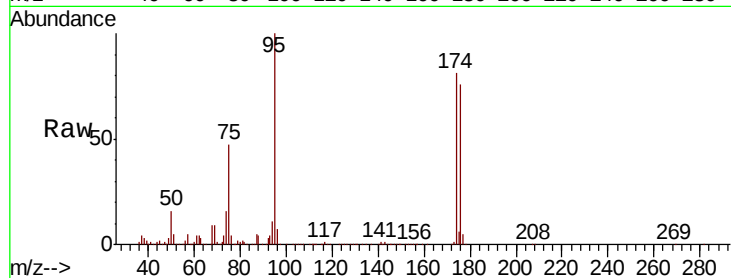
RW-4

Tot Ion: 75 Resp: 113897

Ion Ratio Lower Upper

75 100

77 1.4 21.2 63.6#



#78

n-propylbenzene

Concen: 0.259 ug/l

RT: 11.35 min Scan# 1683

Delta R.T. -0.00 min

Lab File: VX016367.D

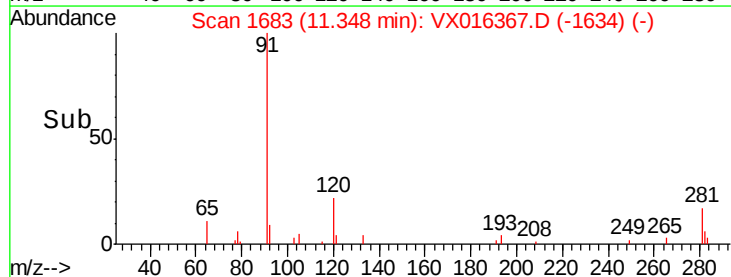
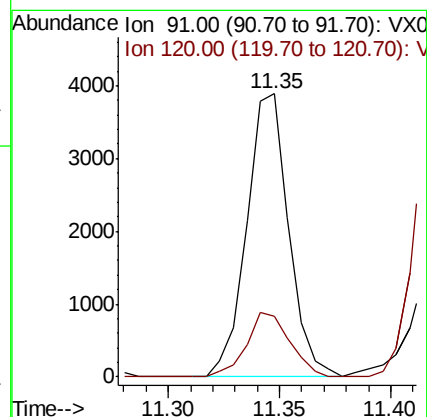
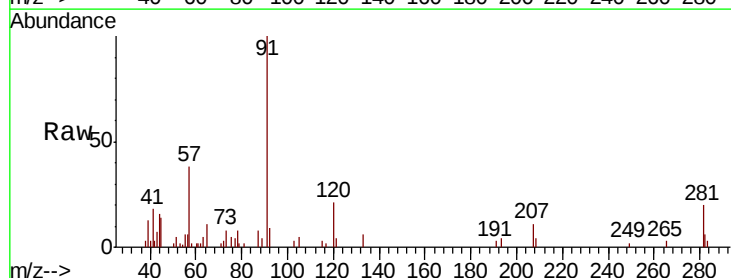
Acq: 20 May 2020 17:53

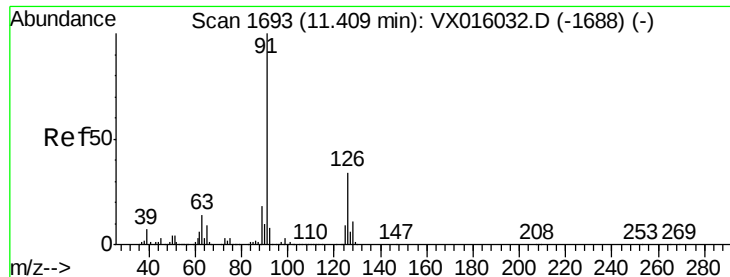
Tgt Ion: 91 Resp: 5114

Ion Ratio Lower Upper

91 100

120 23.8 11.5 34.5

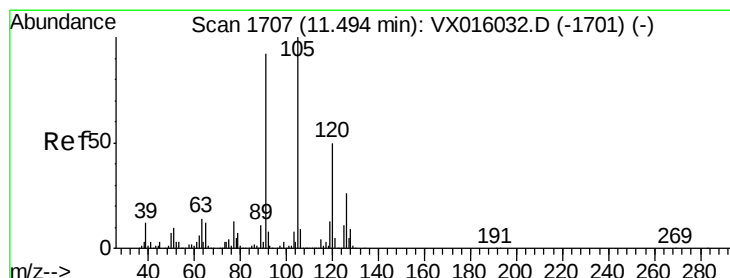
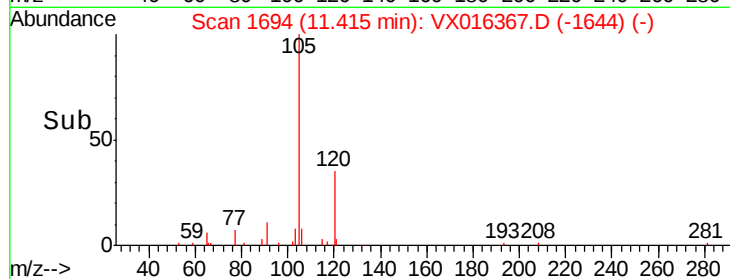
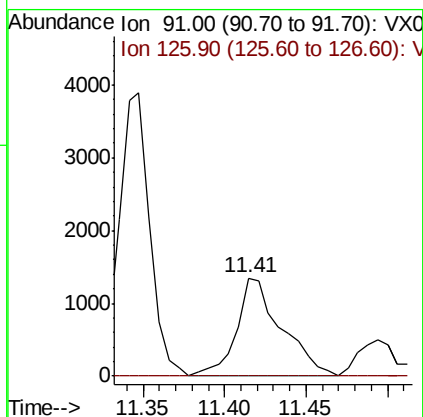
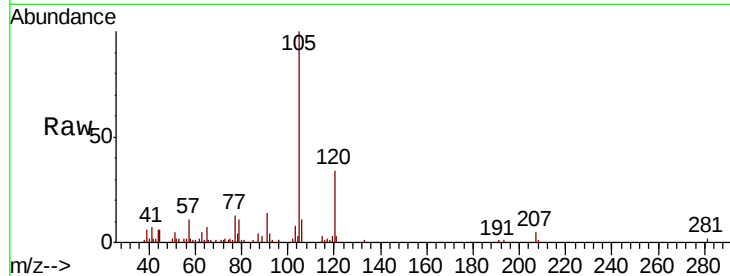




#79  
 2-Chlorotoluene  
 Concen: 0.223 ug/l  
 RT: 11.41 min Scan# 1694  
 Delta R.T. 0.01 min  
 Lab File: VX016367.D  
 Acq: 20 May 2020 17:53

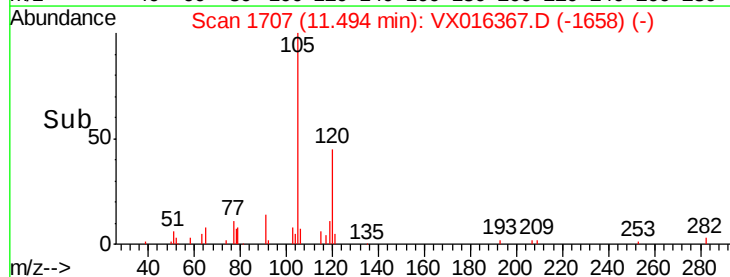
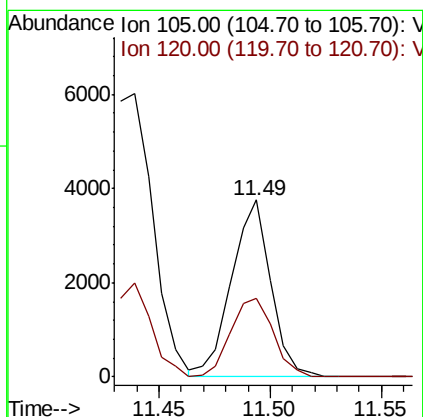
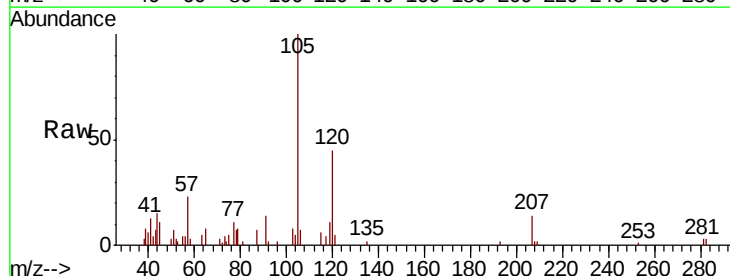
Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 RW-4

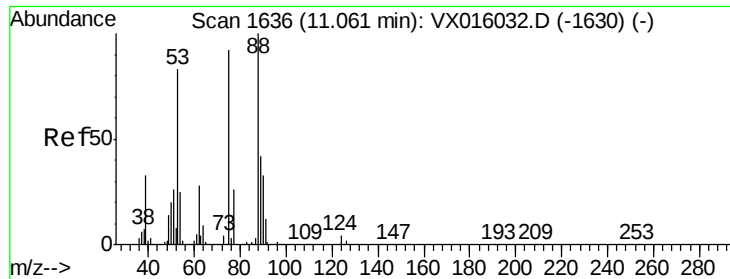
Tot Ion: 91 Resp: 2594  
 Ion Ratio Lower Upper  
 91 100  
 126 0.0 16.9 50.6#



#80  
 1,3,5-Trimethylbenzene  
 Concen: 0.322 ug/l  
 RT: 11.49 min Scan# 1707  
 Delta R.T. -0.00 min  
 Lab File: VX016367.D  
 Acq: 20 May 2020 17:53

Tgt Ion:105 Resp: 4620  
 Ion Ratio Lower Upper  
 105 100  
 120 48.1 24.6 74.0





#81

trans-1,4-Dichloro-2-butene

Concen: 29.375 ug/l

RT: 11.03 min Scan# 1631

Delta R.T. -0.03 min

Lab File: VX016367.D

Acq: 20 May 2020 17:53

Instrument :

MSVOA\_X

ClientSampleId :

RW-4

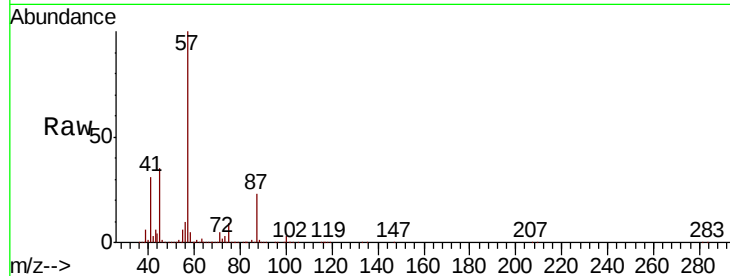
Tot Ion: 75 Resp: 65277

Ion Ratio Lower Upper

75 100

53 11.2 73.1 109.7#

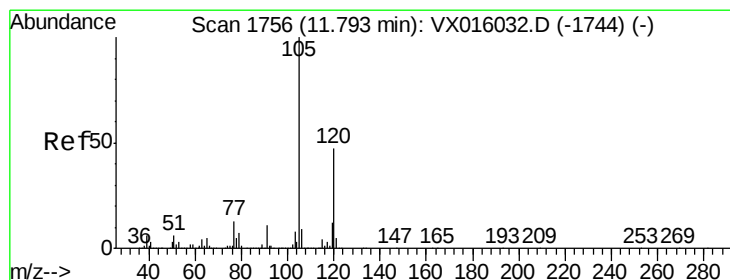
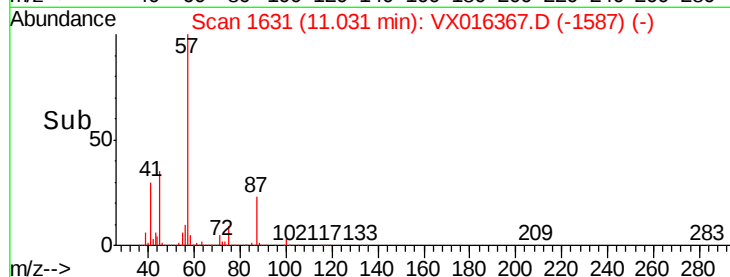
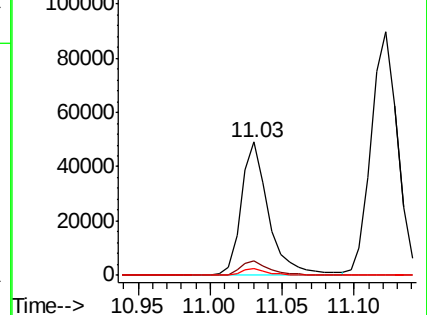
89 5.3 36.7 55.1#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 53.00 (52.70 to 53.70): VX0

Ion 88.90 (88.60 to 89.60): VX0



#84

1,2,4-Trimethylbenzene

Concen: 1.156 ug/l

RT: 11.79 min Scan# 1756

Delta R.T. -0.00 min

Lab File: VX016367.D

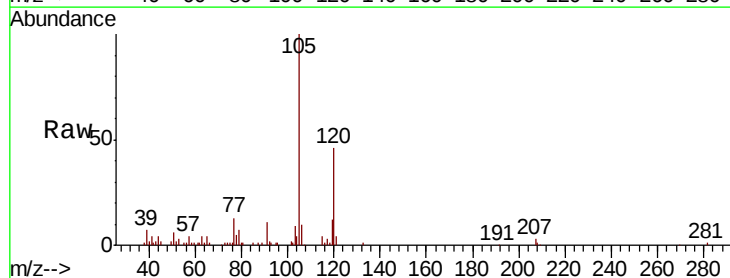
Acq: 20 May 2020 17:53

Tgt Ion: 105 Resp: 16747

Ion Ratio Lower Upper

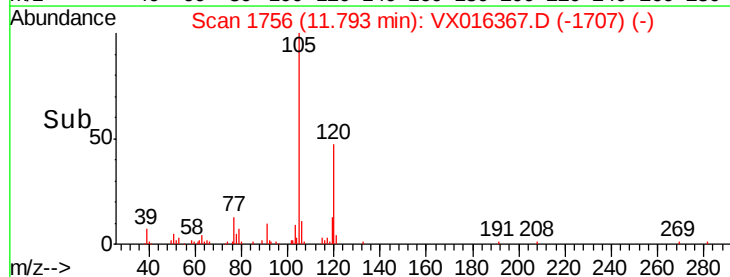
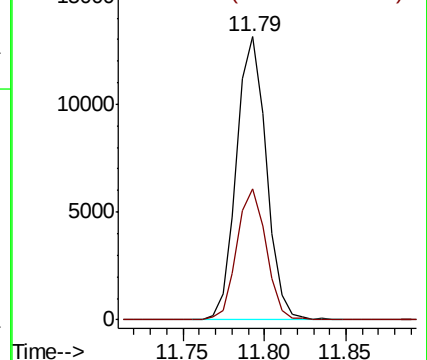
105 100

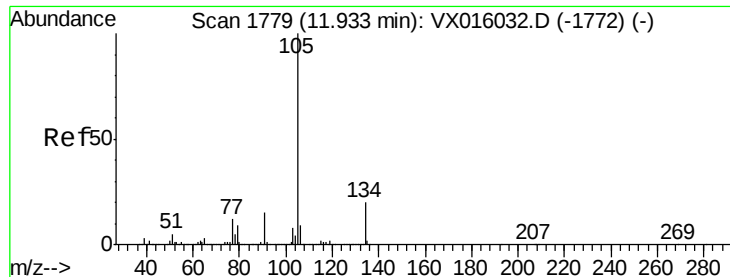
120 45.6 23.0 69.0



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#85

sec-Butylbenzene

Concen: 1.004 ug/l

RT: 11.79 min Scan# 1756

Delta R.T. -0.14 min

Lab File: VX016367.D

Acq: 20 May 2020 17:53

Instrument :

MSVOA\_X

ClientSampleId :

RW-4

Tot Ion:105 Resp: 16747

Ion Ratio Lower Upper

105 100

134 0.0 10.1 30.3#

