

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX121420\  
 Data File : VX019991.D  
 Acq On : 14 Dec 2020 17:02  
 Operator : JC/MD  
 Sample : L4985-03  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 17 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 28-30

Quant Time: Dec 15 01:53:06 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  | 314839   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.83  | 114  | 520751   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.10 | 117  | 490111   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.06 | 152  | 226942   | 50.00 | ug/l  | 0.00     |

## System Monitoring Compounds

|                           |        |       |          |          |      |         |
|---------------------------|--------|-------|----------|----------|------|---------|
| 33) 1,2-Dichloroethane-d4 | 6.03   | 65    | 197890   | 47.82    | ug/l | 0.00    |
| Spiked Amount             | 50.000 | Range | 61 - 141 | Recovery | =    | 95.64%  |
| 35) Dibromofluoromethane  | 5.46   | 113   | 161218   | 47.90    | ug/l | 0.00    |
| Spiked Amount             | 50.000 | Range | 69 - 133 | Recovery | =    | 95.80%  |
| 50) Toluene-d8            | 8.70   | 98    | 645751   | 50.26    | ug/l | 0.00    |
| Spiked Amount             | 50.000 | Range | 65 - 126 | Recovery | =    | 100.52% |
| 62) 4-Bromofluorobenzene  | 11.12  | 95    | 236392   | 48.34    | ug/l | 0.00    |
| Spiked Amount             | 50.000 | Range | 58 - 135 | Recovery | =    | 96.68%  |

## Target Compounds

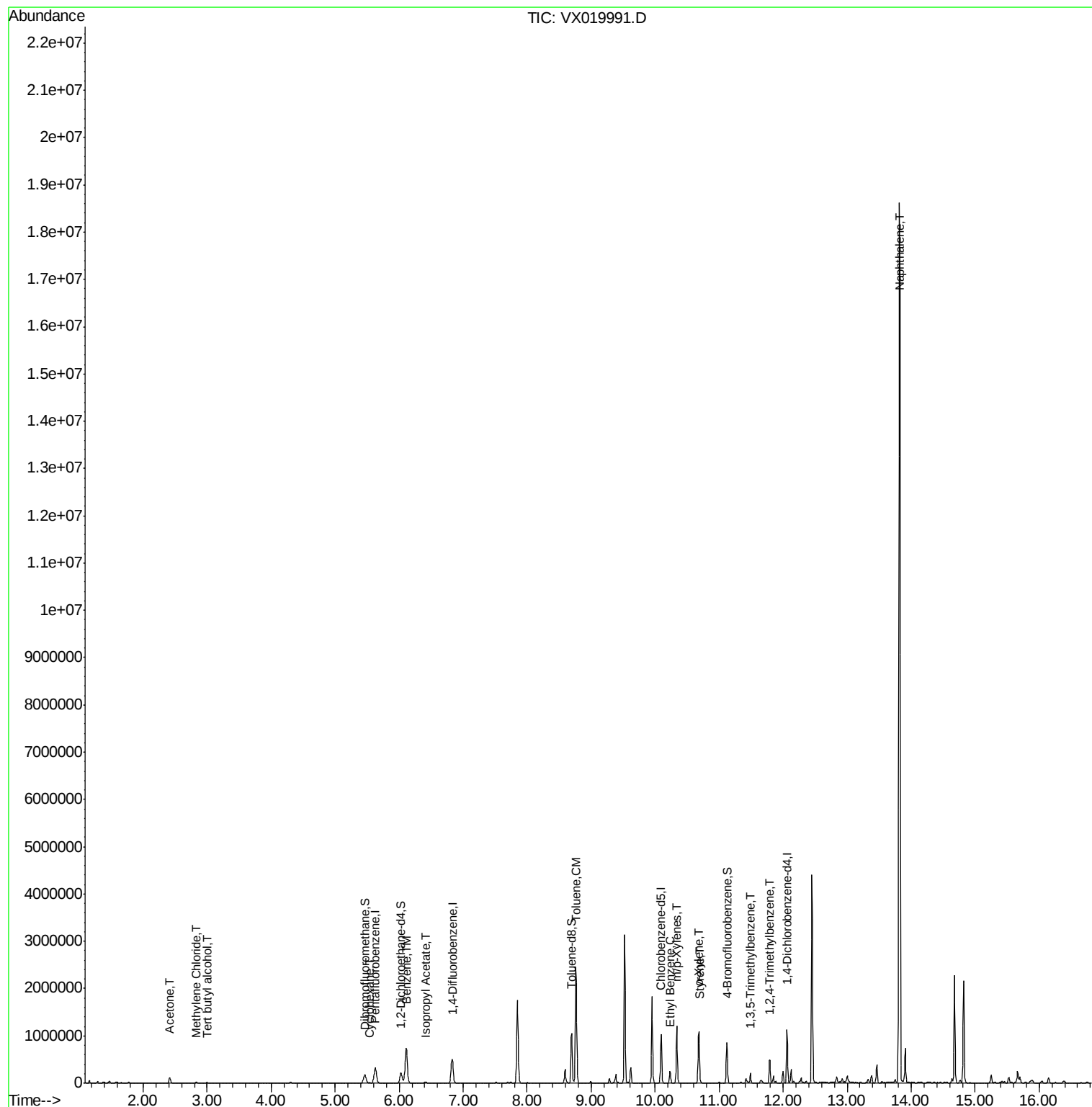
|                            |       |     |          |         | Qvalue    |
|----------------------------|-------|-----|----------|---------|-----------|
| 11) Tert butyl alcohol     | 3.00  | 59  | 9661     | 8.836   | ug/l # 90 |
| 16) Acetone                | 2.42  | 43  | 110892   | 71.298  | ug/l 99   |
| 20) Methylene Chloride     | 2.83  | 84  | 9695     | 1.346   | ug/l 97   |
| 31) Cyclohexane            | 5.54  | 56  | 6104     | 1.186   | ug/l 94   |
| 40) Benzene                | 6.11  | 78  | 920723   | 64.053  | ug/l 100  |
| 43) Isopropyl Acetate      | 6.41  | 43  | 28316    | 3.666   | ug/l 97   |
| 52) Toluene                | 8.76  | 92  | 930564   | 103.507 | ug/l 99   |
| 67) Ethyl Benzene          | 10.23 | 91  | 144315   | 8.326   | ug/l 99   |
| 68) m/p-Xylenes            | 10.34 | 106 | 282889   | 43.315  | ug/l 97   |
| 69) o-Xylene               | 10.68 | 106 | 206431   | 32.858  | ug/l 98   |
| 70) Styrene                | 10.70 | 104 | 115819   | 10.922  | ug/l # 79 |
| 80) 1,3,5-Trimethylbenzene | 11.49 | 105 | 89233    | 6.819   | ug/l 99   |
| 84) 1,2,4-Trimethylbenzene | 11.79 | 105 | 205572   | 15.596  | ug/l 91   |
| 95) Naphthalene            | 13.82 | 128 | 11094773 | 740.552 | ug/l 95   |

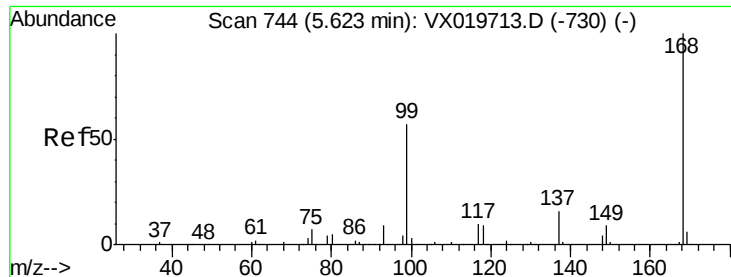
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA X\DATA\VX121420\  
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Sample : L4985-03  
Misc : 5.0mL/MSVOA X/WATER  
ALS Vial : 17 Sample Multiplier: 1

Instrument :  
MSVOA\_X  
ClientSampleId :  
28-30

Quant Time: Dec 15 01:53:06 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: VX019991.D

Acq: 14 Dec 2020 17:02

Instrument :

MSVOA\_X

ClientSampled :

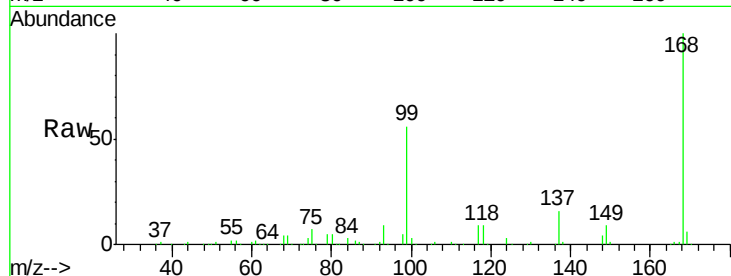
28-30

Tot Ion:168 Resp: 314839

Ion Ratio Lower Upper

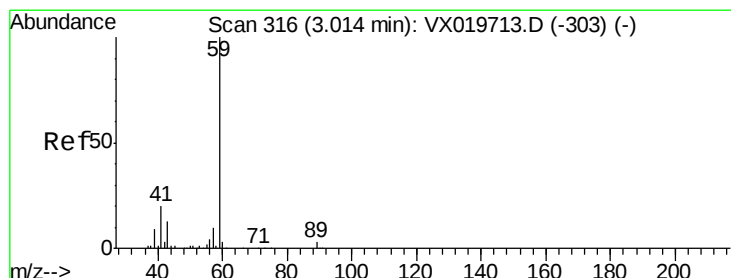
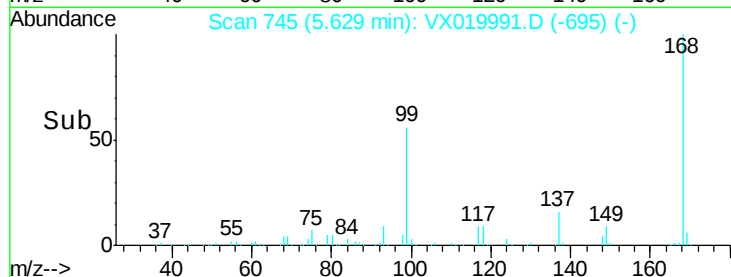
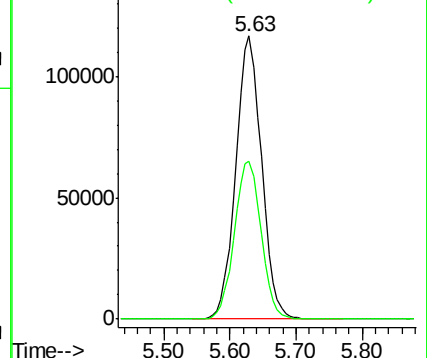
168 100

99 55.8 45.8 68.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#11

Tert butyl alcohol

Concen: 8.836 ug/l

RT: 3.00 min Scan# 313

Delta R.T. -0.02 min

Lab File: VX019991.D

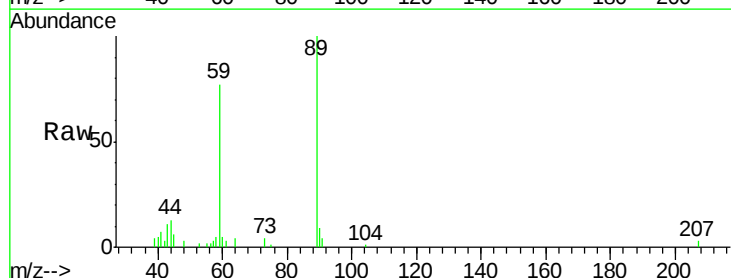
Acq: 14 Dec 2020 17:02

Tgt Ion: 59 Resp: 9661

Ion Ratio Lower Upper

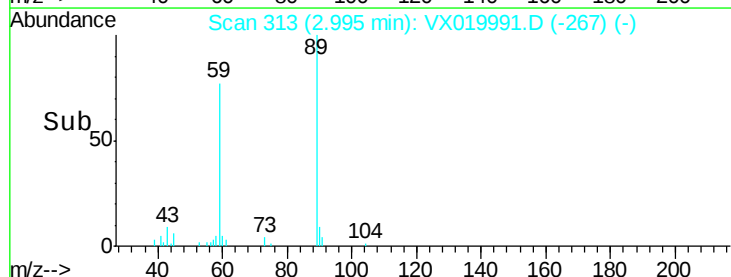
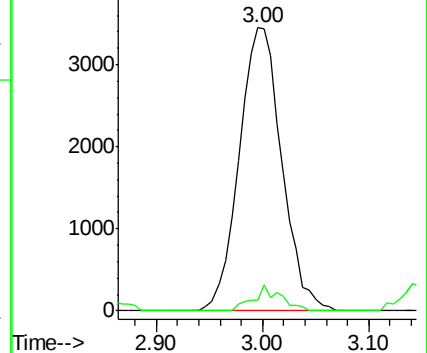
59 100

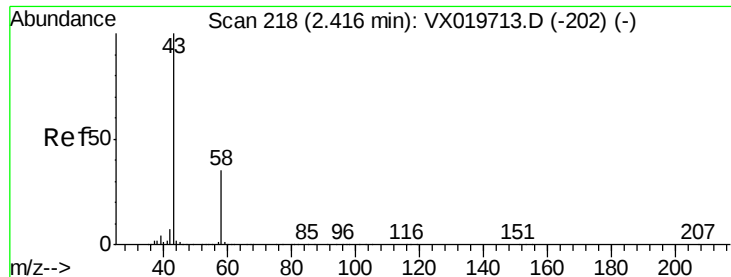
57 5.9 7.8 11.8#



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0





#16

Acetone

Concen: 71.298 ug/l

RT: 2.42 min Scan# 218

Delta R.T. 0.00 min

Lab File: VX019991.D

Acq: 14 Dec 2020 17:02

Instrument :

MSVOA\_X

ClientSampleId :

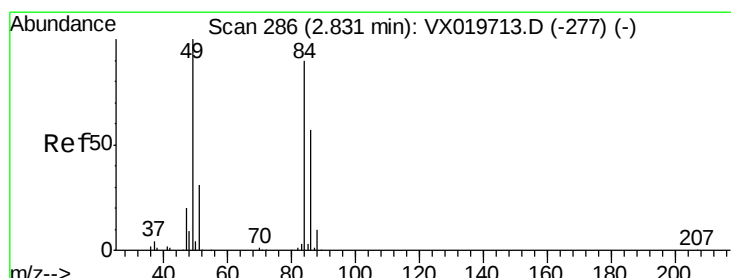
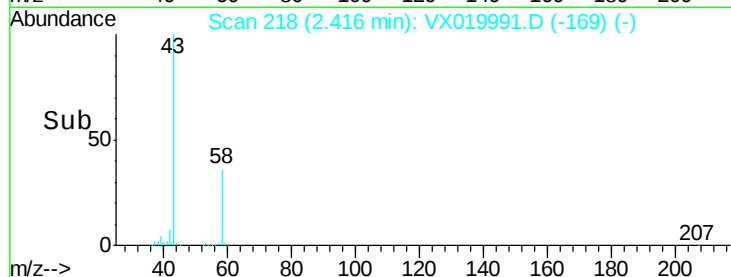
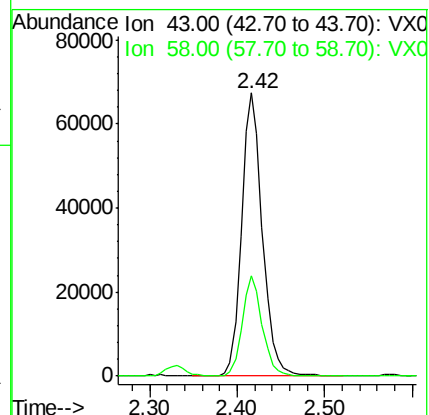
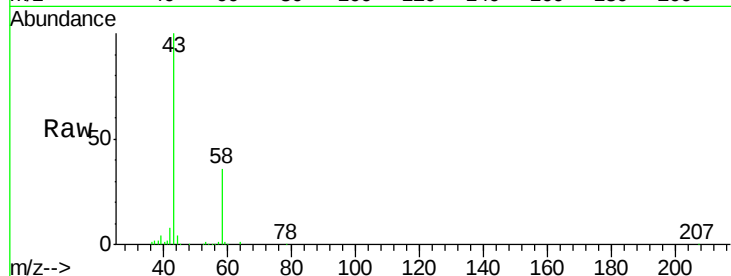
28-30

Tot Ion: 43 Resp: 110892

Ion Ratio Lower Upper

43 100

58 35.5 27.8 41.8



#20

Methylene Chloride

Concen: 1.346 ug/l

RT: 2.83 min Scan# 286

Delta R.T. 0.00 min

Lab File: VX019991.D

Acq: 14 Dec 2020 17:02

Tgt Ion: 84 Resp: 9695

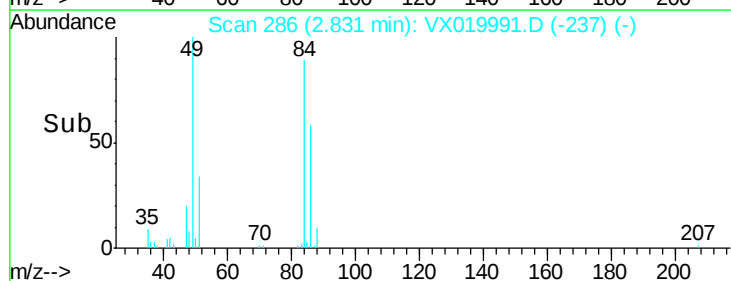
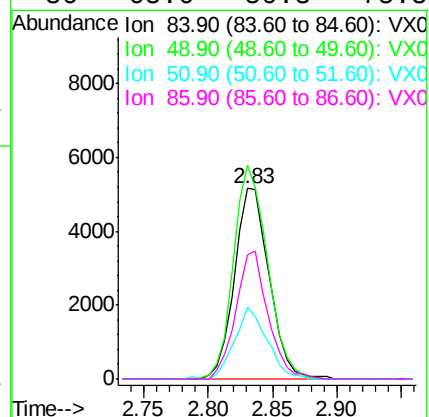
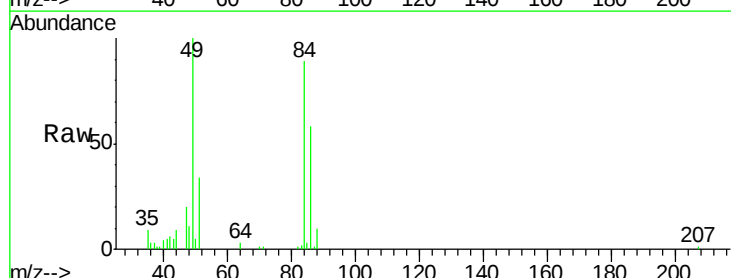
Ion Ratio Lower Upper

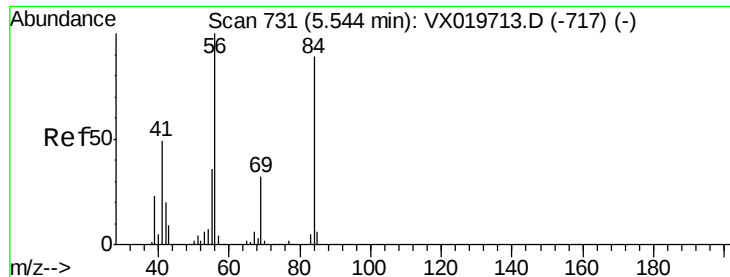
84 100

49 112.2 88.6 132.8

51 37.8 27.0 40.6

86 65.0 50.3 75.5

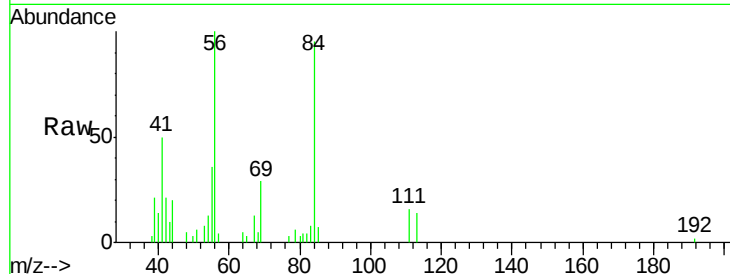




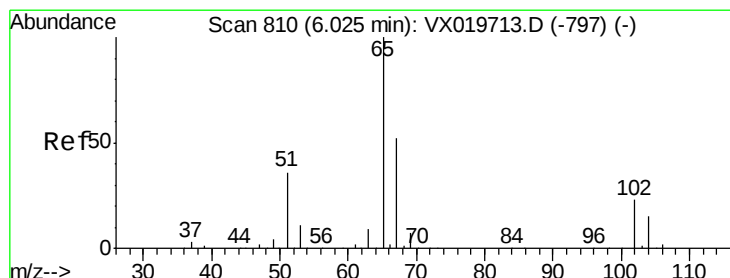
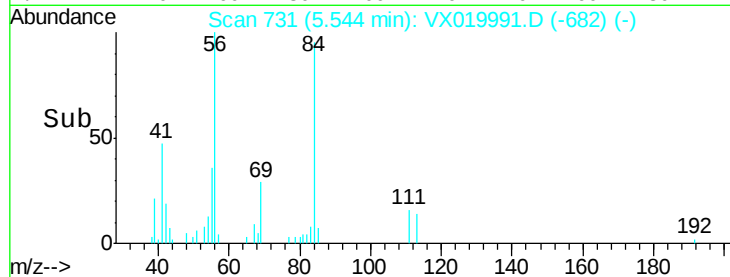
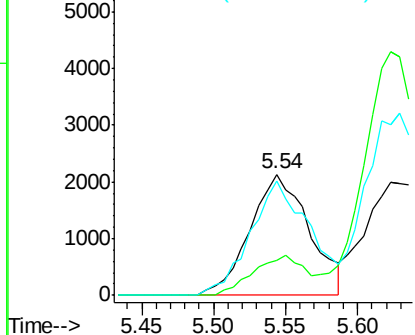
#31  
Cyclohexane  
Concen: 1.186 ug/l  
RT: 5.54 min Scan# 731  
Delta R.T. 0.00 min  
Lab File: VX019991.D  
Acq: 14 Dec 2020 17:02

Instrument :  
MSVOA\_X  
ClientSampled :  
28-30

Tot Ion: 56 Resp: 6104  
Ion Ratio Lower Upper  
56 100  
69 28.7 25.3 37.9  
84 94.7 71.4 107.0

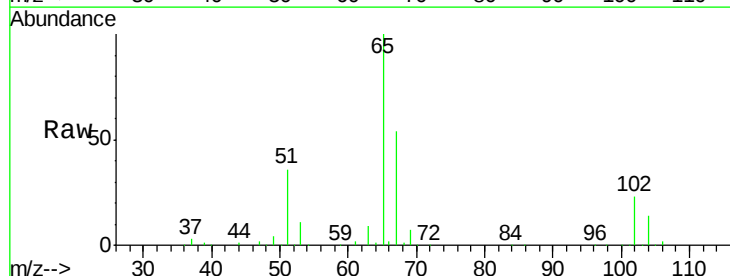


Abundance Ion 56.00 (55.70 to 56.70): VX0  
Ion 69.00 (68.70 to 69.70): VX0  
Ion 84.00 (83.70 to 84.70): VX0

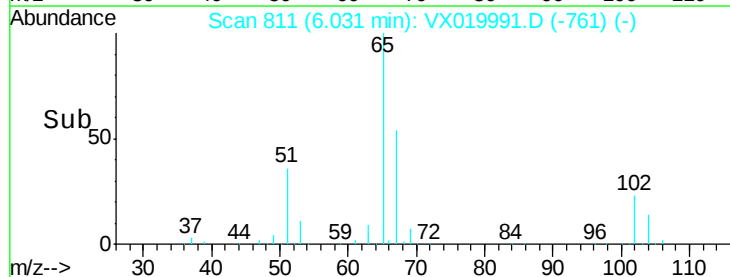
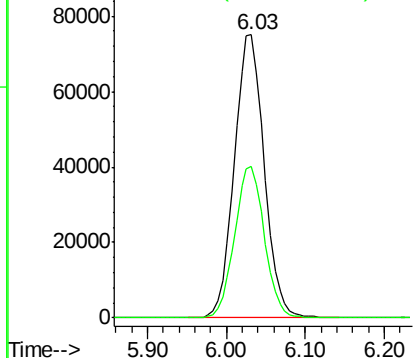


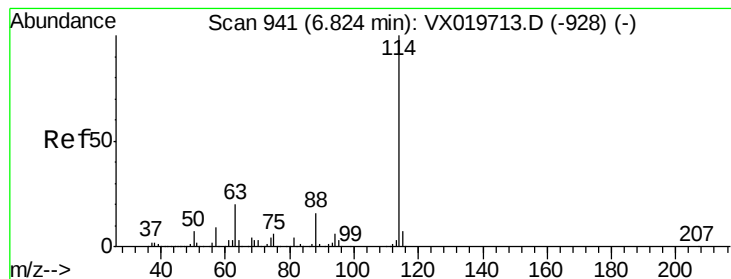
#33  
1,2-Dichloroethane-d4  
Concen: 47.824 ug/l  
RT: 6.03 min Scan# 811  
Delta R.T. 0.01 min  
Lab File: VX019991.D  
Acq: 14 Dec 2020 17:02

Tgt Ion: 65 Resp: 197890  
Ion Ratio Lower Upper  
65 100  
67 53.5 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: VX019991.D

Acq: 14 Dec 2020 17:02

Instrument :

MSVOA\_X

ClientSampleId :

28-30

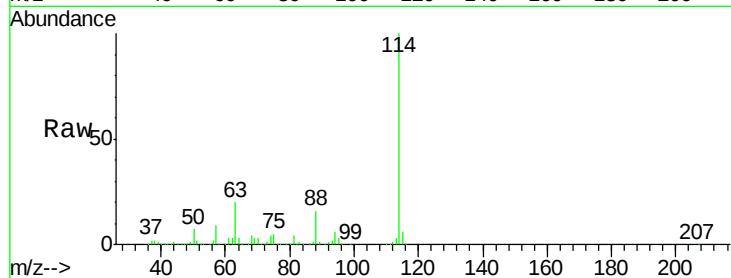
Tot Ion:114 Resp: 520751

Ion Ratio Lower Upper

114 100

63 20.4 0.0 40.8

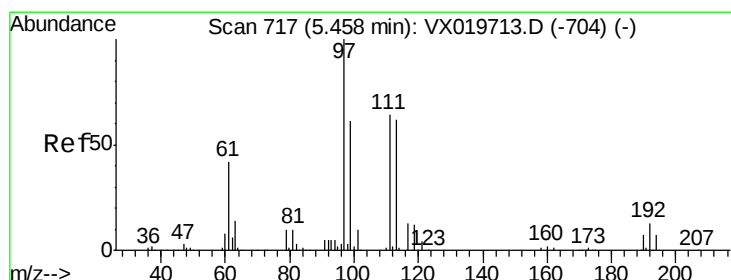
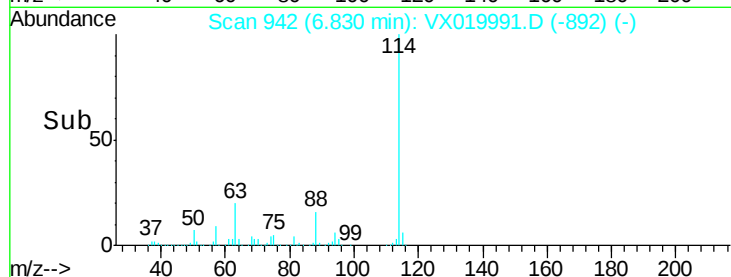
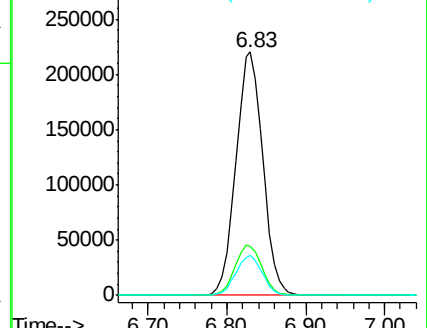
88 16.3 0.0 32.8



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: 47.903 ug/l

RT: 5.46 min Scan# 718

Delta R.T. 0.01 min

Lab File: VX019991.D

Acq: 14 Dec 2020 17:02

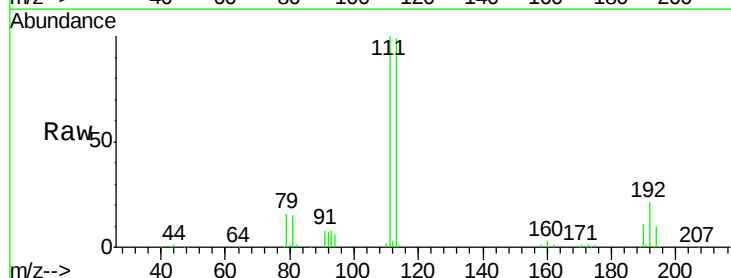
Tgt Ion:113 Resp: 161218

Ion Ratio Lower Upper

113 100

111 102.2 81.9 122.9

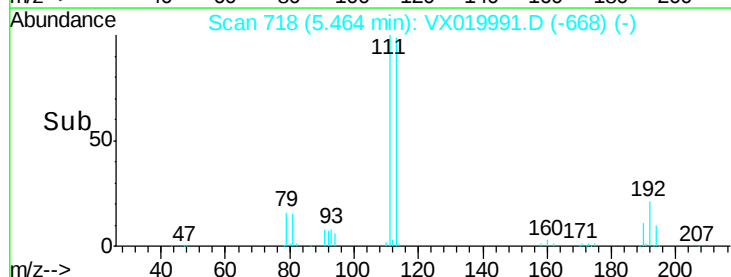
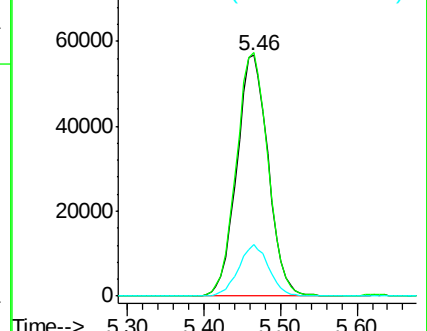
192 20.6 16.7 25.1

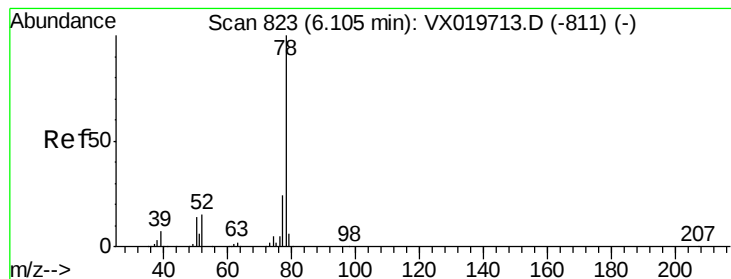


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#40

Benzene

Concen: 64.053 ug/l

RT: 6.11 min Scan# 824

Delta R.T. 0.01 min

Lab File: VX019991.D

Acq: 14 Dec 2020 17:02

Instrument :

MSVOA\_X

ClientSampleId :

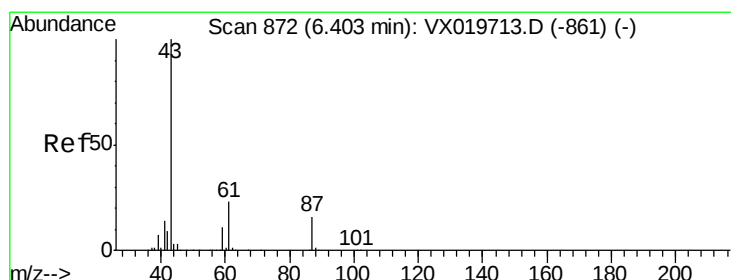
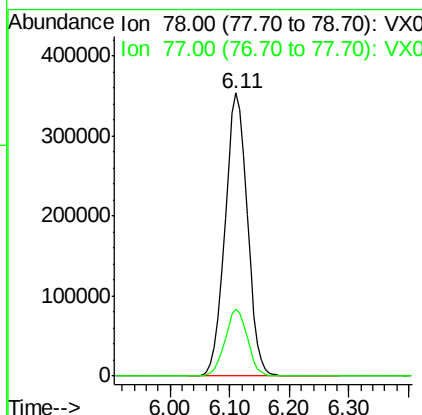
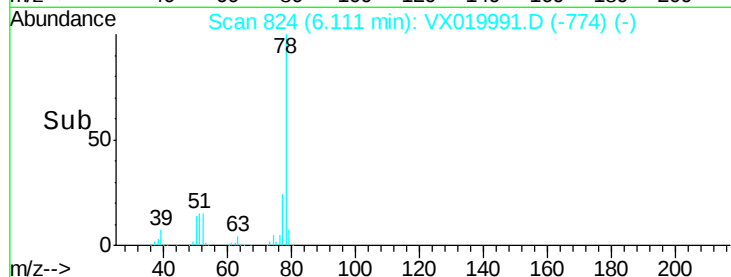
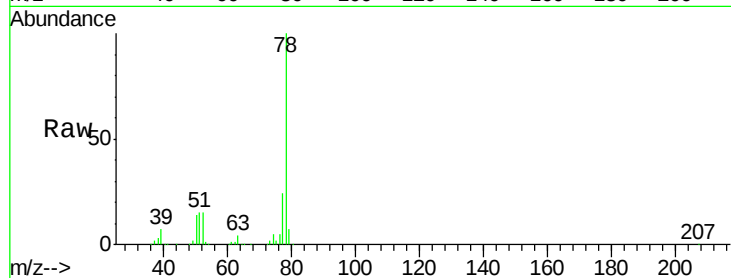
28-30

Tot Ion: 78 Resp: 920723

Ion Ratio Lower Upper

78 100

77 23.8 18.9 28.3



#43

Isopropyl Acetate

Concen: 3.666 ug/l

RT: 6.41 min Scan# 873

Delta R.T. 0.01 min

Lab File: VX019991.D

Acq: 14 Dec 2020 17:02

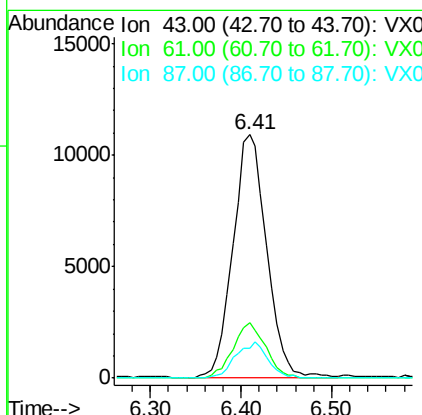
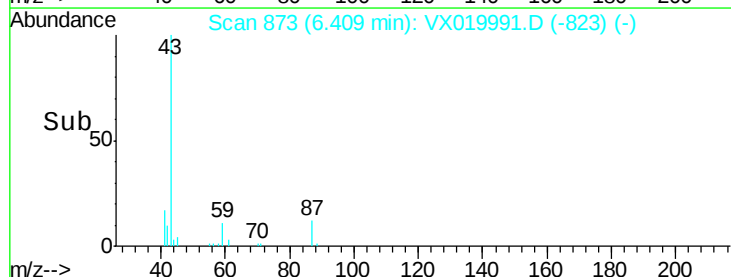
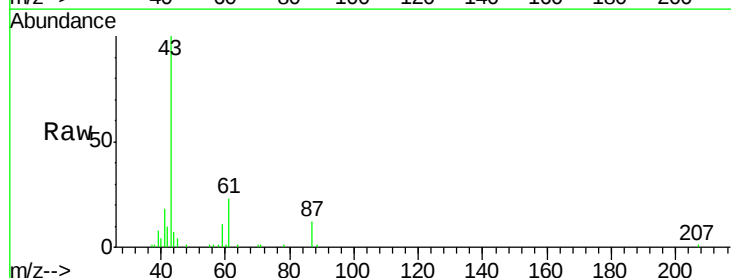
Tgt Ion: 43 Resp: 28316

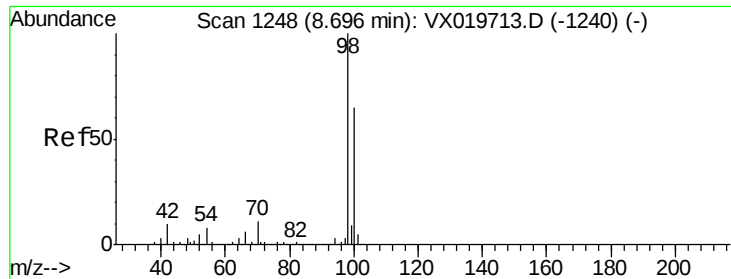
Ion Ratio Lower Upper

43 100

61 21.7 18.2 27.4

87 14.0 12.5 18.7

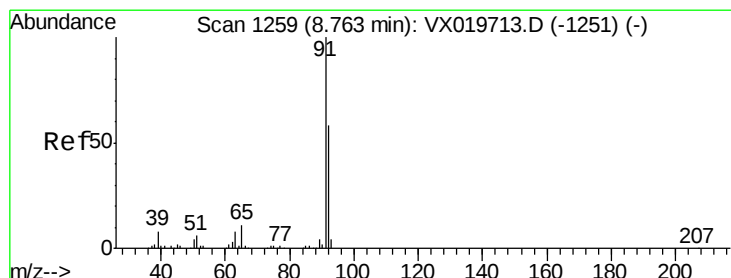
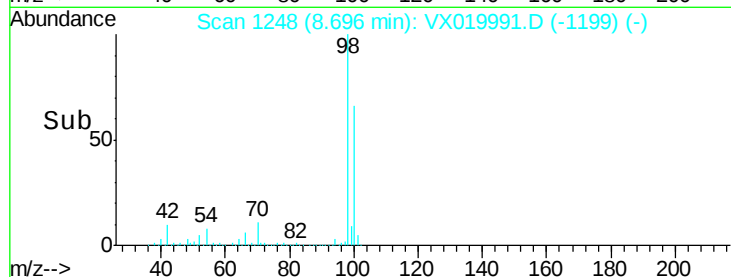
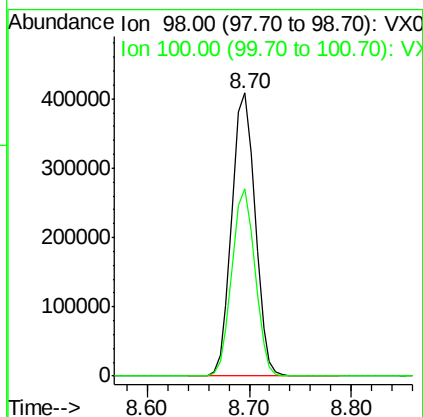
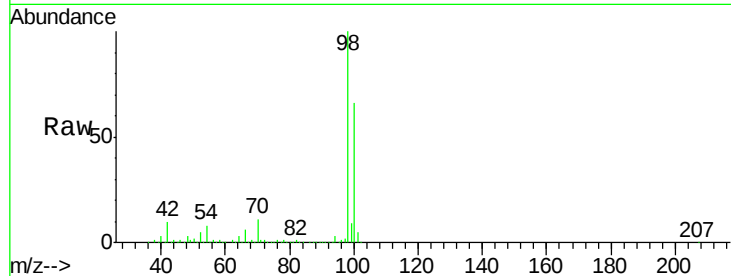




#50  
Toluene-d8  
Concen: 50.258 ug/l  
RT: 8.70 min Scan# 1248  
Delta R.T. 0.00 min  
Lab File: VX019991.D  
Acq: 14 Dec 2020 17:02

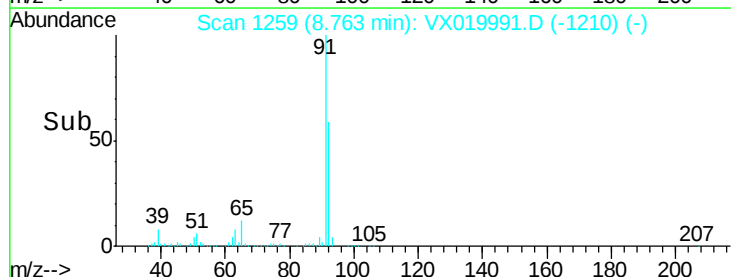
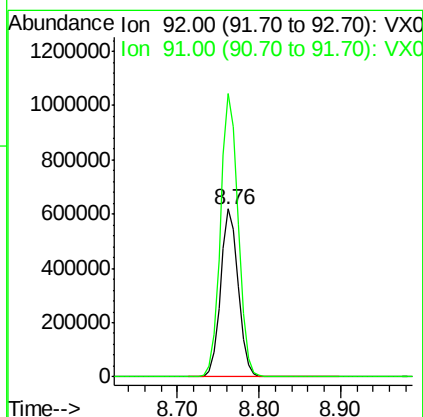
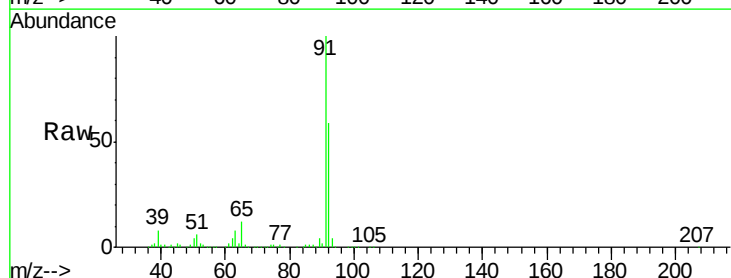
Instrument :  
MSVOA\_X  
ClientSampleId :  
28-30

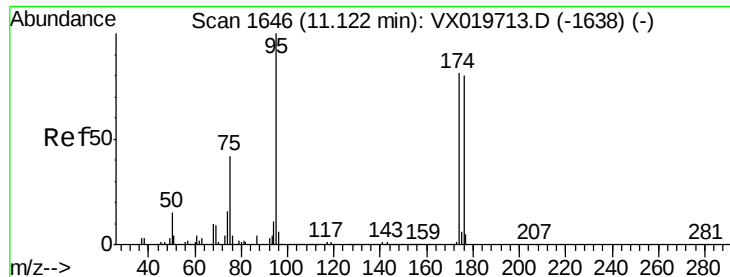
Tot Ion: 98 Resp: 645751  
Ion Ratio Lower Upper  
98 100  
100 65.5 51.9 77.9



#52  
Toluene  
Concen: 103.507 ug/l  
RT: 8.76 min Scan# 1259  
Delta R.T. 0.00 min  
Lab File: VX019991.D  
Acq: 14 Dec 2020 17:02

Tgt Ion: 92 Resp: 930564  
Ion Ratio Lower Upper  
92 100  
91 169.6 137.1 205.7





#62

4-Bromofluorobenzene

Concen: 48.338 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.00 min

Lab File: VX019991.D

Acq: 14 Dec 2020 17:02

Instrument :

MSVOA\_X

ClientSampleId :

28-30

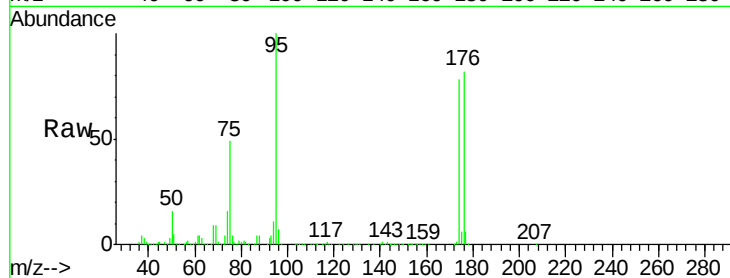
Tot Ion: 95 Resp: 236392

Ion Ratio Lower Upper

95 100

174 76.9 0.0 154.6

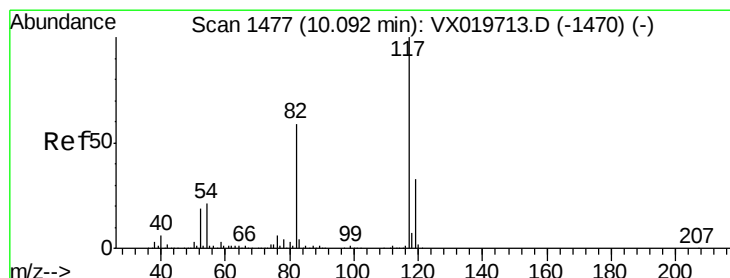
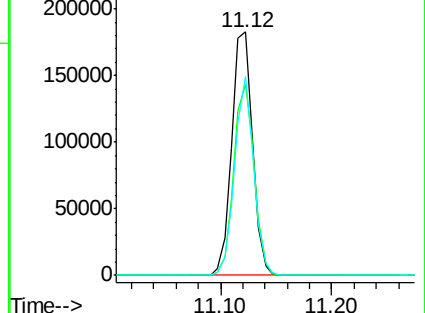
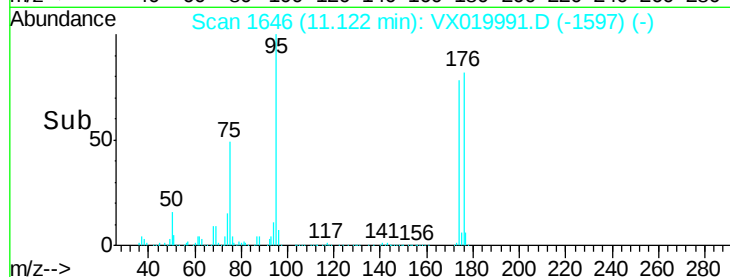
176 74.5 0.0 155.8



Abundance Ion 94.90 (94.60 to 95.60): VX019991.D (-1597) (-)

Ion 173.80 (173.50 to 174.50): VX019991.D (-1597) (-)

Ion 175.80 (175.50 to 176.50): VX019991.D (-1597) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.10 min Scan# 1478

Delta R.T. 0.01 min

Lab File: VX019991.D

Acq: 14 Dec 2020 17:02

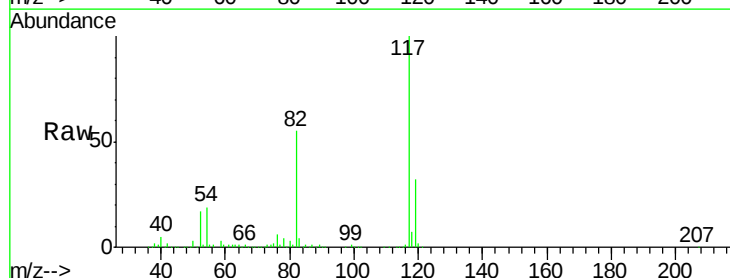
Tgt Ion: 117 Resp: 490111

Ion Ratio Lower Upper

117 100

82 55.2 47.4 71.2

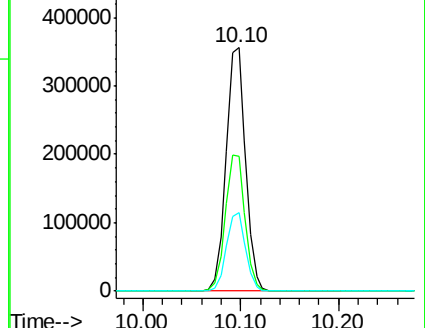
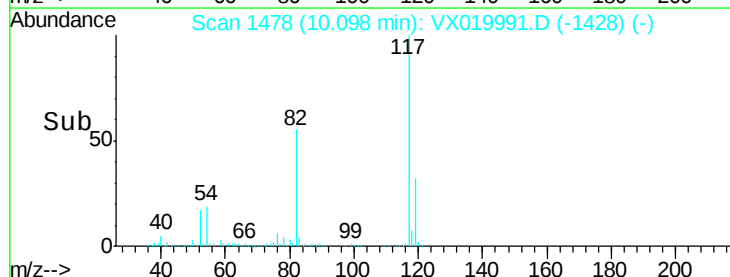
119 32.2 26.6 39.8

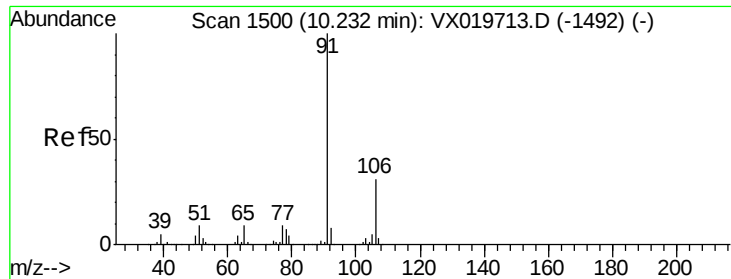


Abundance Ion 116.90 (116.60 to 117.60): VX019991.D (-1428) (-)

Ion 82.00 (81.70 to 82.70): VX019991.D (-1428) (-)

Ion 118.90 (118.60 to 119.60): VX019991.D (-1428) (-)





#67

Ethyl Benzene

Concen: 8.326 ug/l

RT: 10.23 min Scan# 1500

Delta R.T. 0.00 min

Lab File: VX019991.D

Acq: 14 Dec 2020 17:02

Instrument :

MSVOA\_X

ClientSampled :

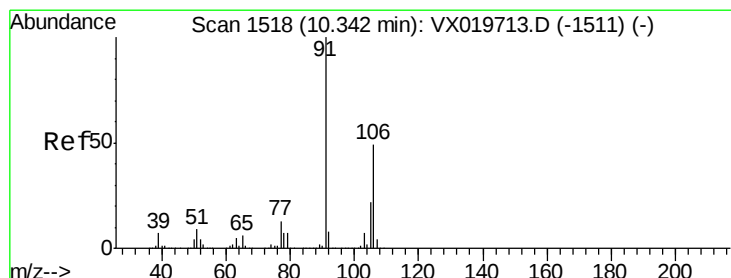
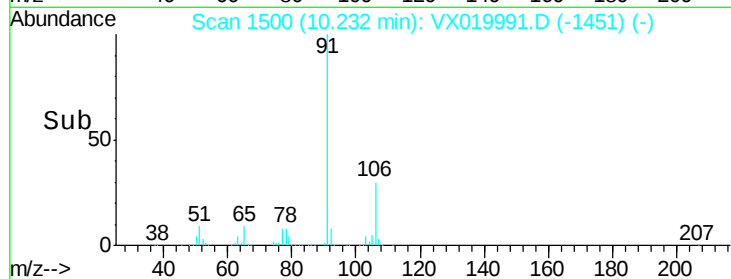
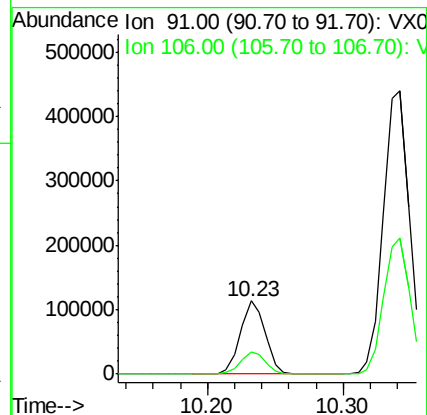
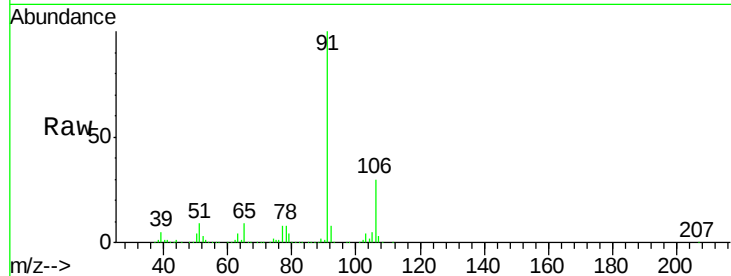
28-30

Tot Ion: 91 Resp: 144315

Ion Ratio Lower Upper

91 100

106 30.0 24.6 37.0



#68

m/p-Xylenes

Concen: 43.315 ug/l

RT: 10.34 min Scan# 1518

Delta R.T. 0.00 min

Lab File: VX019991.D

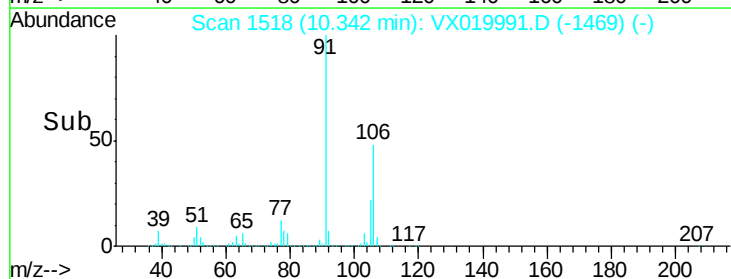
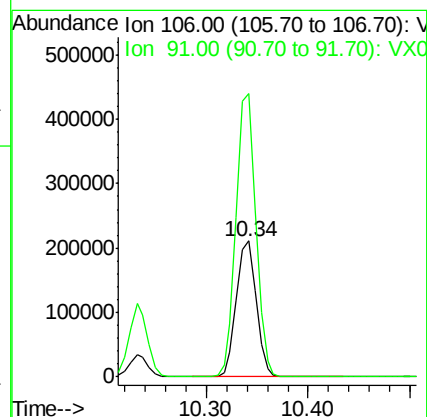
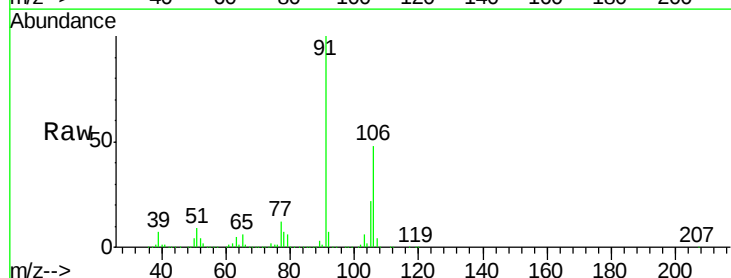
Acq: 14 Dec 2020 17:02

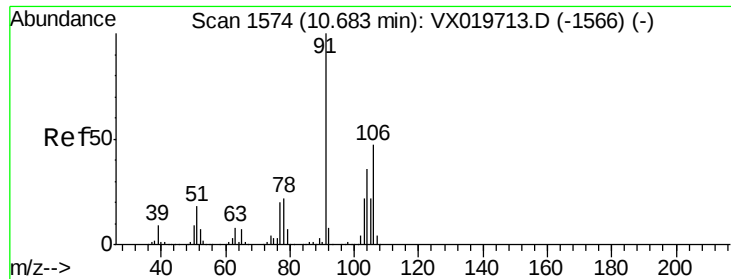
Tgt Ion: 106 Resp: 282889

Ion Ratio Lower Upper

106 100

91 208.0 162.8 244.2

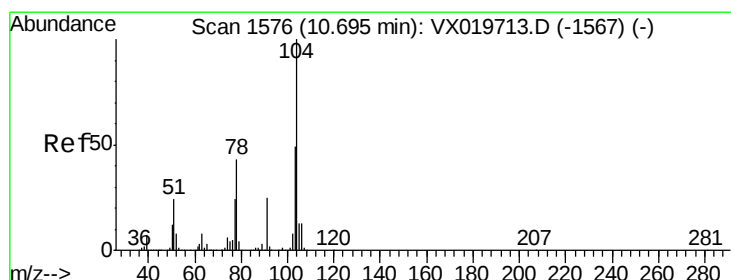
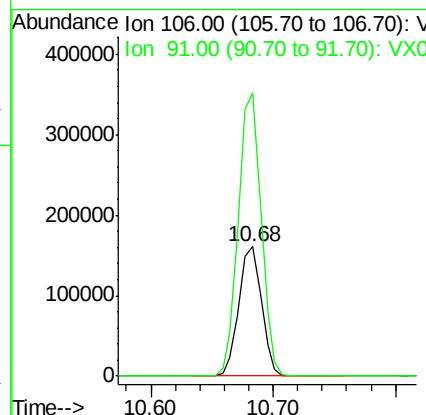
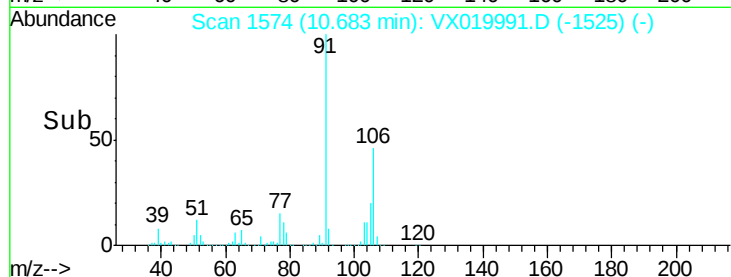
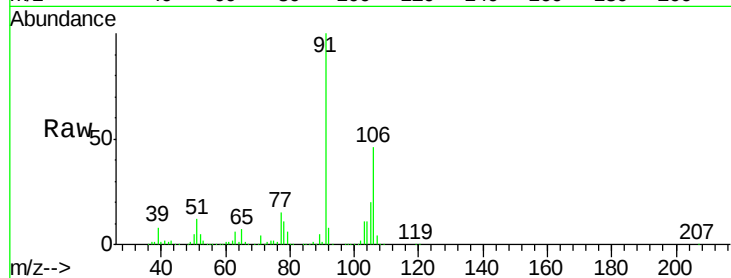




#69  
o-Xylene  
Concen: 32.858 ug/l  
RT: 10.68 min Scan# 1574  
Delta R.T. 0.00 min  
Lab File: VX019991.D  
Acq: 14 Dec 2020 17:02

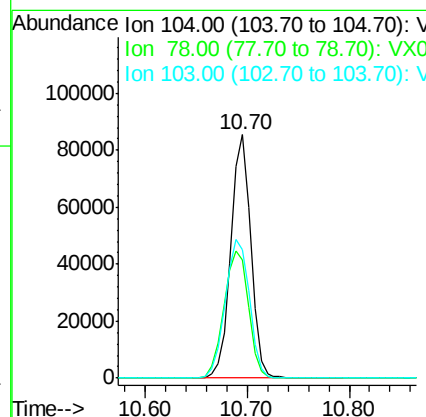
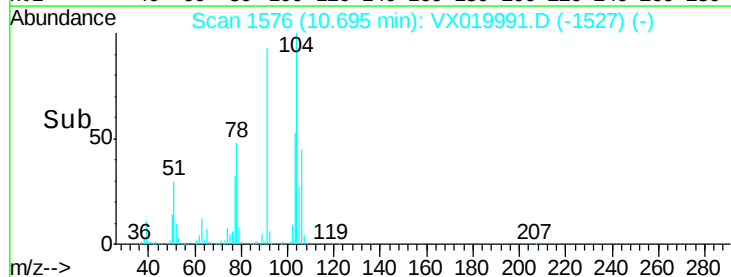
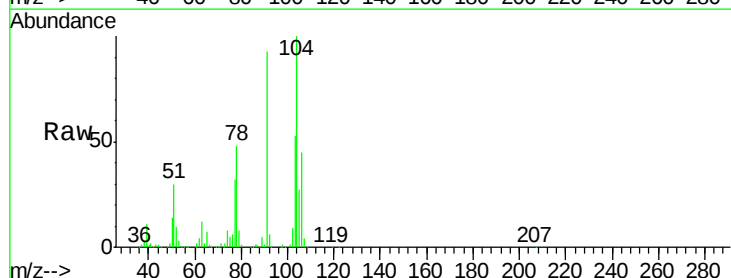
Instrument :  
MSVOA\_X  
ClientSampled :  
28-30

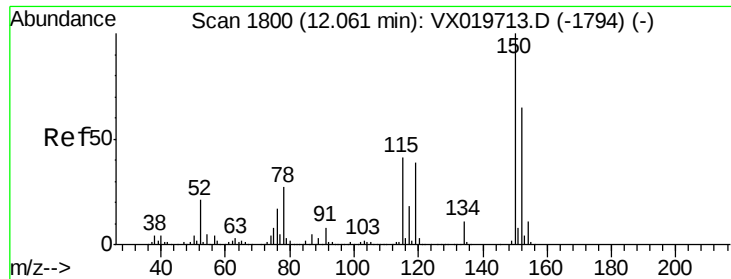
Tot Ion:106 Resp: 206431  
Ion Ratio Lower Upper  
106 100  
91 219.9 108.1 324.2



#70  
Styrene  
Concen: 10.922 ug/l  
RT: 10.70 min Scan# 1576  
Delta R.T. 0.00 min  
Lab File: VX019991.D  
Acq: 14 Dec 2020 17:02

Tgt Ion:104 Resp: 115819  
Ion Ratio Lower Upper  
104 100  
78 64.6 40.0 60.0#  
103 68.9 43.4 65.0#





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.06 min Scan# 1800

Delta R.T. 0.00 min

Lab File: VX019991.D

Acq: 14 Dec 2020 17:02

Instrument :

MSVOA\_X

ClientSampled :

28-30

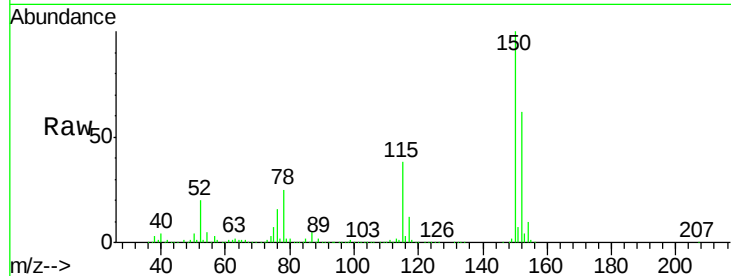
Tot Ion:152 Resp: 226942

Ion Ratio Lower Upper

152 100

115 61.5 41.1 123.3

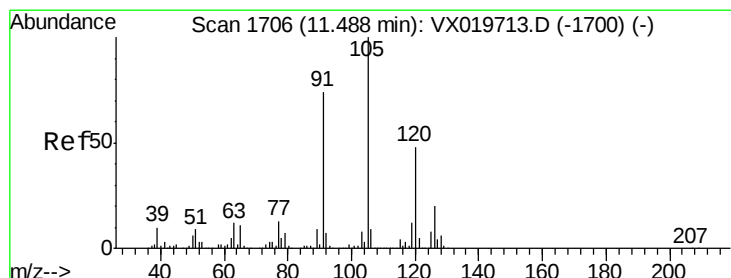
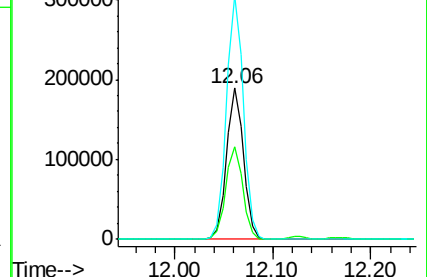
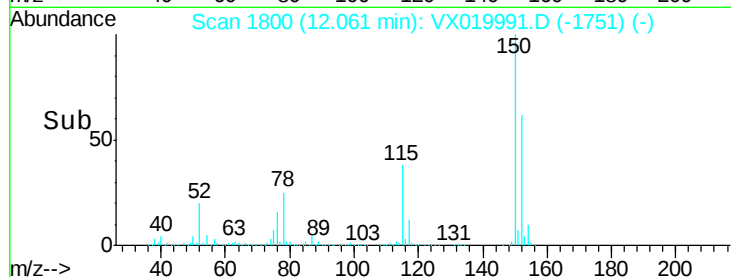
150 160.6 0.0 349.0



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



#80

1,3,5-Trimethylbenzene

Concen: 6.819 ug/l

RT: 11.49 min Scan# 1706

Delta R.T. 0.00 min

Lab File: VX019991.D

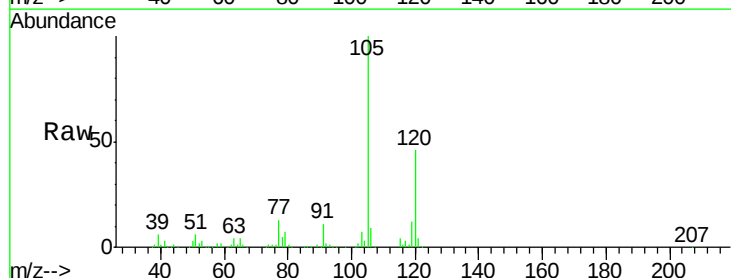
Acq: 14 Dec 2020 17:02

Tgt Ion:105 Resp: 89233

Ion Ratio Lower Upper

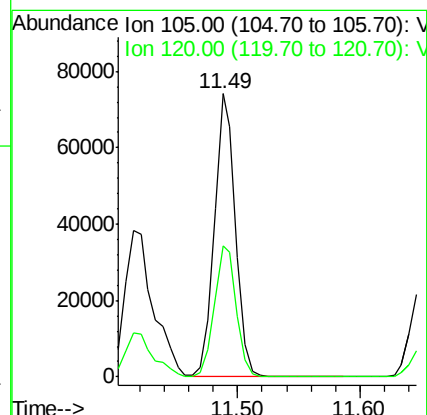
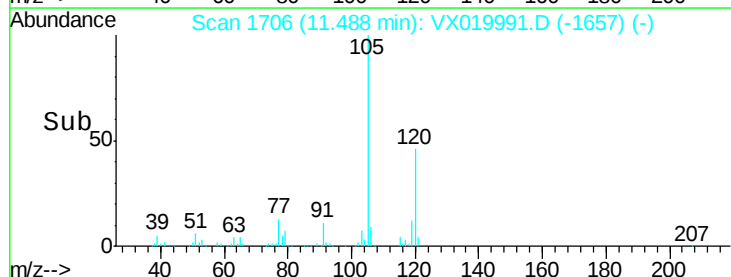
105 100

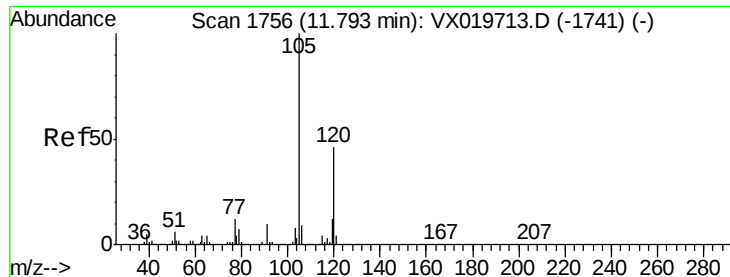
120 48.2 23.8 71.5



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

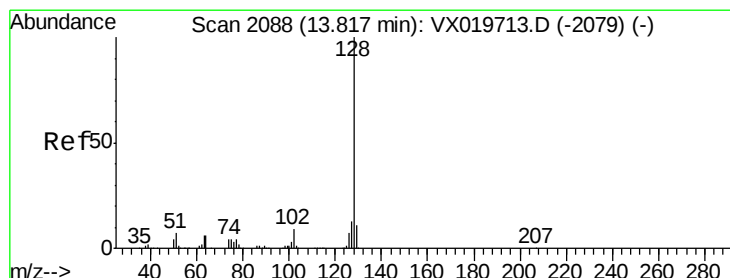
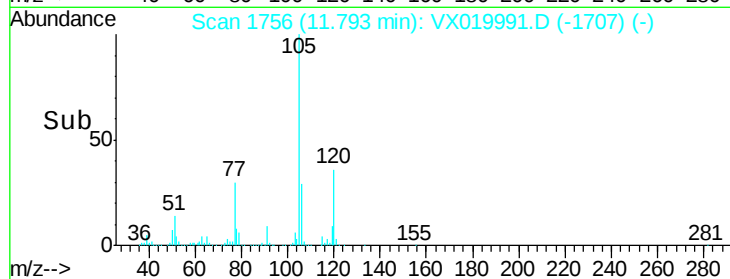
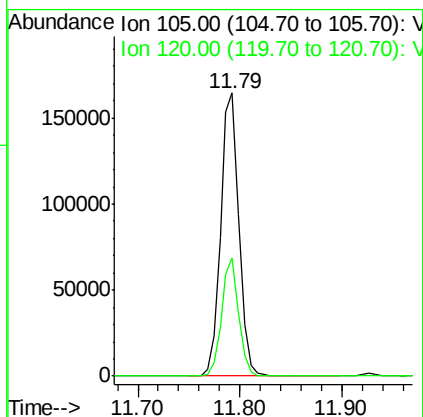
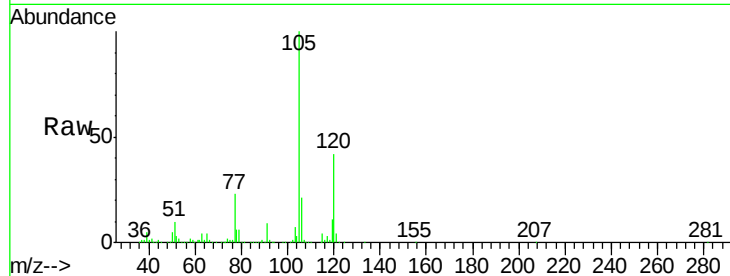




#84  
 1,2,4-Trimethylbenzene  
 Concen: 15.596 ug/l  
 RT: 11.79 min Scan# 1756  
 Delta R.T. 0.00 min  
 Lab File: VX019991.D  
 Acq: 14 Dec 2020 17:02

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 28-30

Tot Ion:105 Resp: 205572  
 Ion Ratio Lower Upper  
 105 100  
 120 38.7 22.4 67.3



#95  
 Naphthalene  
 Concen: 740.552 ug/l  
 RT: 13.82 min Scan# 2088  
 Delta R.T. 0.00 min  
 Lab File: VX019991.D  
 Acq: 14 Dec 2020 17:02

Tgt Ion:128 Resp:11094773  
 Ion Ratio Lower Upper  
 128 100  
 127 15.0 10.3 15.5  
 129 13.1 8.8 13.2

