

Data File : VX016761.D  
Acq On : 15 Jun 2020 18:03  
Operator : JC/SP  
Sample : L2993-07  
Misc : 5.0mL/MSVOA\_X/WATER  
ALS Vial : 19 Sample Multiplier: 1

Instrument :  
MSVOA\_X  
ClientSampleId :  
Z1-TB6-200610

Quant Time: Jun 16 03:11:15 2020  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X061520W.M  
Quant Title : SW846 8260  
QLast Update : Tue Jun 16 02:02:35 2020  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.63  | 168  | 238432   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.84  | 114  | 375891   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.10 | 117  | 387364   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.06 | 152  | 200937   | 50.00 | ug/l  | 0.00     |

#### System Monitoring Compounds

|                           |        |     |          |       |         |      |
|---------------------------|--------|-----|----------|-------|---------|------|
| 33) 1,2-Dichloroethane-d4 | 6.03   | 65  | 136984   | 51.08 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 102.16% |      |
| 35) Dibromofluoromethane  | 5.47   | 113 | 114818   | 49.51 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 99.02%  |      |
| 50) Toluene-d8            | 8.70   | 98  | 465743   | 54.46 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 108.92% |      |
| 62) 4-Bromofluorobenzene  | 11.12  | 95  | 191598   | 58.58 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 117.16% |      |

#### Target Compounds

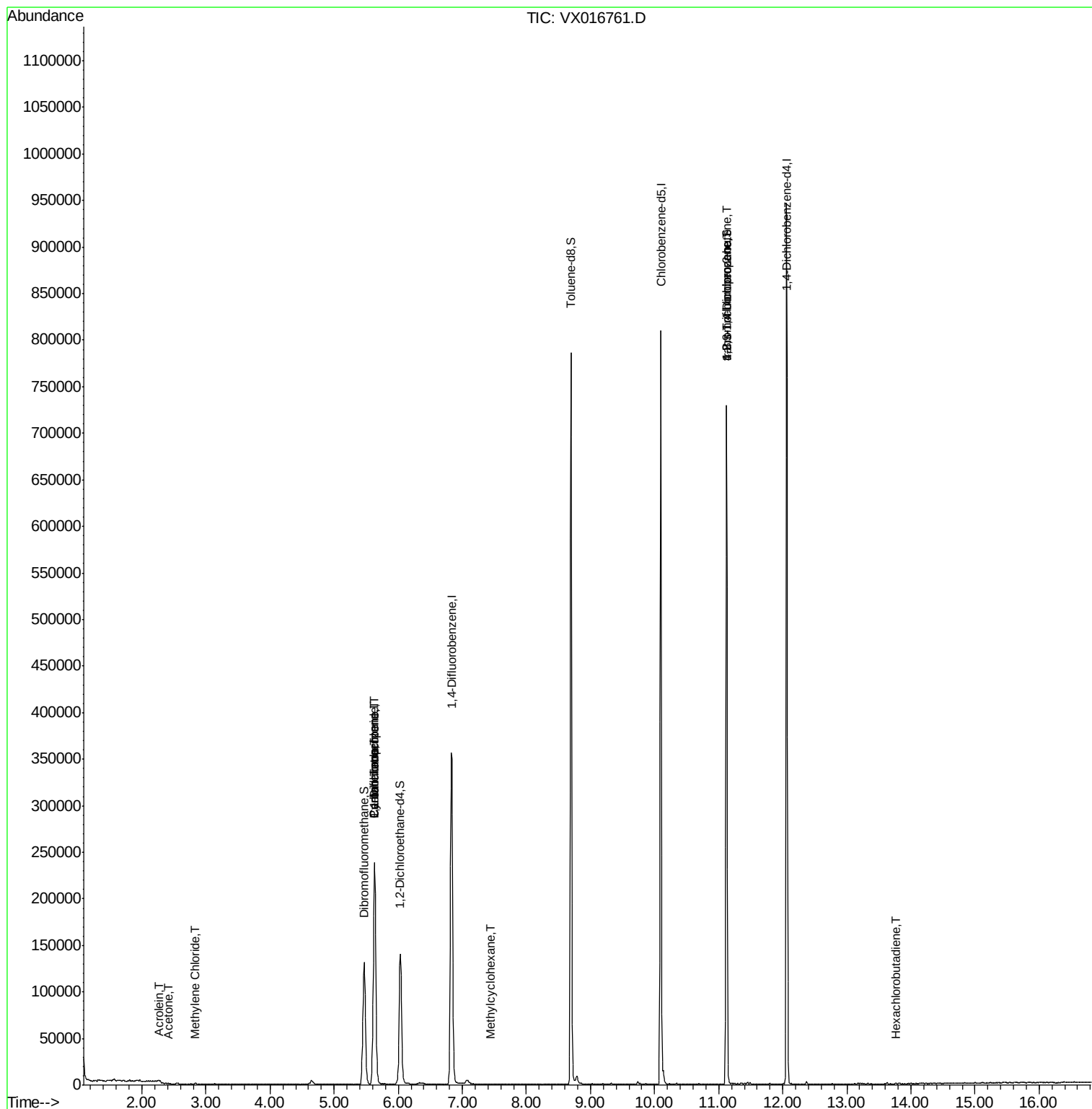
|                                |       |     |       |        |        | Qvalue |
|--------------------------------|-------|-----|-------|--------|--------|--------|
| 13) Acrolein                   | 2.26  | 56  | 233   | 3.110  | ug/l # | 1      |
| 16) Acetone                    | 2.42  | 43  | 328   | 0.270  | ug/l # | 42     |
| 20) Methylene Chloride         | 2.83  | 84  | 661   | 0.252  | ug/l # | 94     |
| 31) Cyclohexane                | 5.63  | 56  | 4135  | 1.877  | ug/l # | 1      |
| 36) 1,1-Dichloropropene        | 5.63  | 75  | 15635 | 4.707  | ug/l # | 52     |
| 38) Carbon Tetrachloride       | 5.63  | 117 | 22540 | 5.975  | ug/l # | 17     |
| 39) Methylcyclohexane          | 7.45  | 83  | 102   | 0.979  | ug/l # | 61     |
| 76) 1,2,3-Trichloropropane     | 11.12 | 75  | 92032 | 21.780 | ug/l # | 37     |
| 81) trans-1,4-Dichloro-2-buten | 11.12 | 75  | 92032 | 54.829 | ug/l # | 13     |
| 94) Hexachlorobutadiene        | 13.77 | 225 | 197   | 0.514  | ug/l   | 76     |

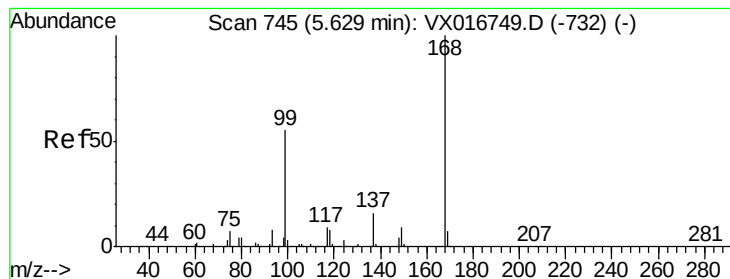
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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ClientSampled :  
Z1-TB6-200610

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Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X061520W.M  
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QLast Update : Tue Jun 16 02:02:35 2020  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.63 min Scan# 745

Delta R.T. -0.00 min

Lab File: VX016761.D

Acq: 15 Jun 2020 18:03

Instrument :

MSVOA\_X

ClientSampleId :

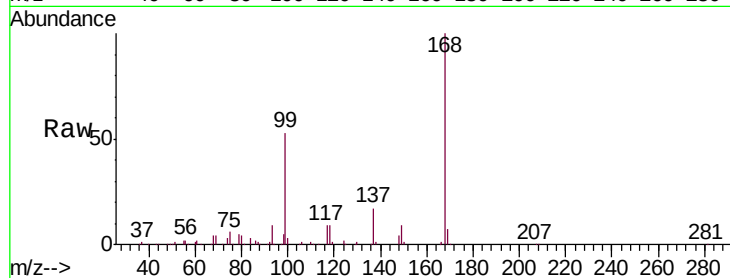
Z1-TB6-200610

Tgt Ion:168 Resp: 238432

Ion Ratio Lower Upper

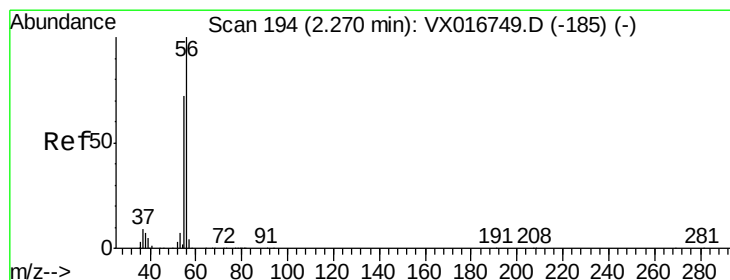
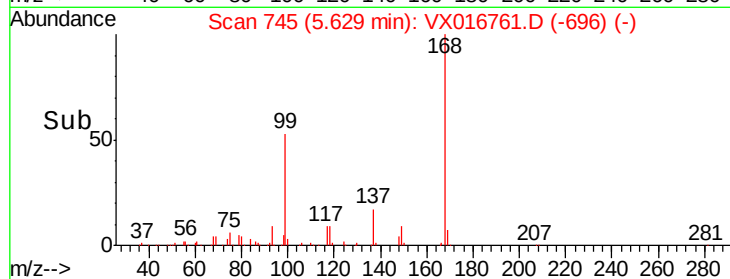
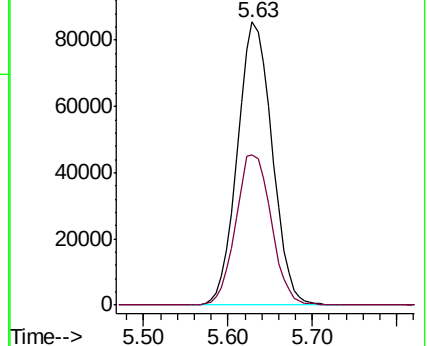
168 100

99 53.0 43.8 65.6



Abundance Ion 167.90 (167.60 to 168.60): VX016761.D (-696) (-)

Ion 98.90 (98.60 to 99.60): VX016761.D (-696) (-)



#13

Acrolein

Concen: 3.110 ug/l

RT: 2.26 min Scan# 193

Delta R.T. -0.01 min

Lab File: VX016761.D

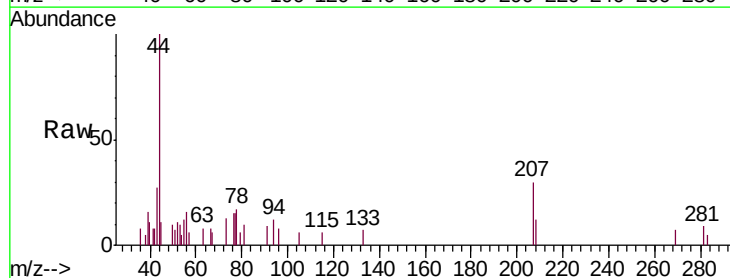
Acq: 15 Jun 2020 18:03

Tgt Ion: 56 Resp: 233

Ion Ratio Lower Upper

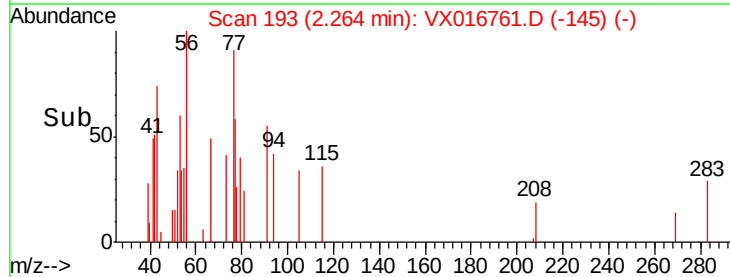
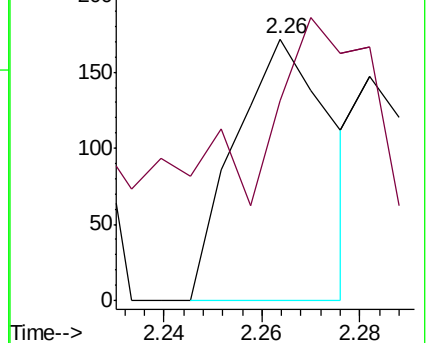
56 100

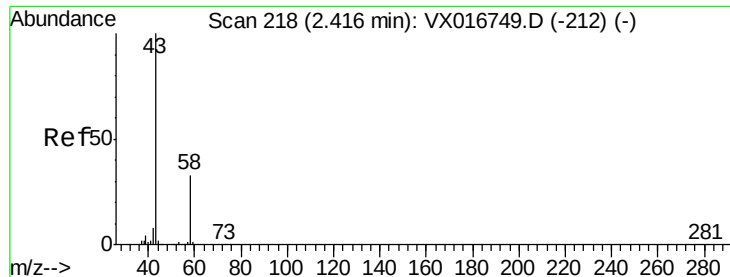
55 169.1 58.2 87.4#



Abundance Ion 56.00 (55.70 to 56.70): VX016761.D (-145) (-)

Ion 55.00 (54.70 to 55.70): VX016761.D (-145) (-)





#16

Acetone

Concen: 0.270 ug/l

RT: 2.42 min Scan# 219

Delta R.T. 0.01 min

Lab File: VX016761.D

Acq: 15 Jun 2020 18:03

Instrument :

MSVOA\_X

ClientSampleId :

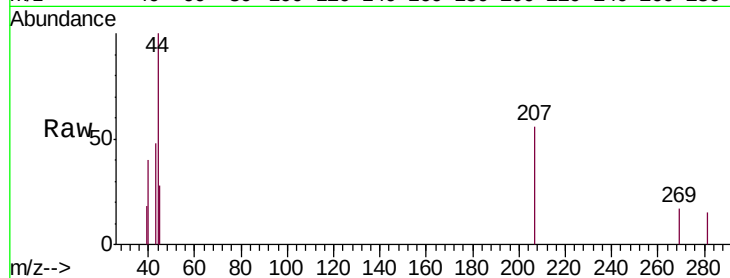
Z1-TB6-200610

Tgt Ion: 43 Resp: 328

Ion Ratio Lower Upper

43 100

58 0.0 26.3 39.5#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

2.42

200

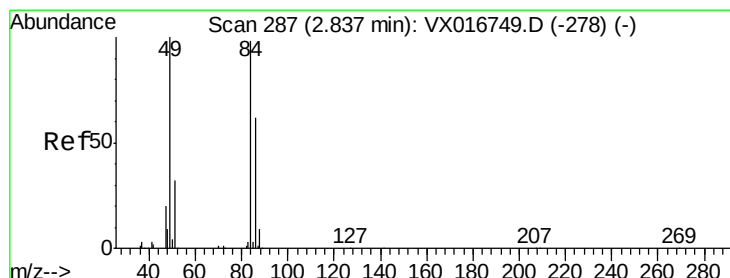
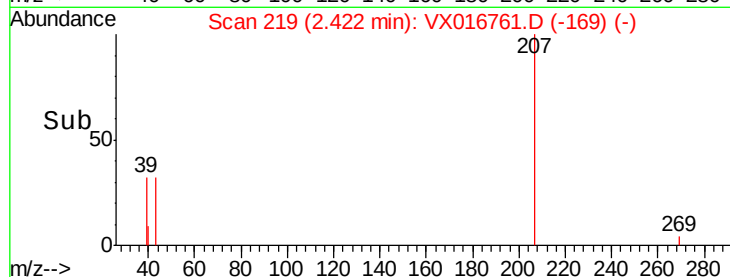
150

100

50

0

Time--> 2.38 2.40 2.42 2.44



#20

Methylene Chloride

Concen: 0.252 ug/l

RT: 2.83 min Scan# 286

Delta R.T. -0.01 min

Lab File: VX016761.D

Acq: 15 Jun 2020 18:03

Tgt Ion: 84 Resp: 661

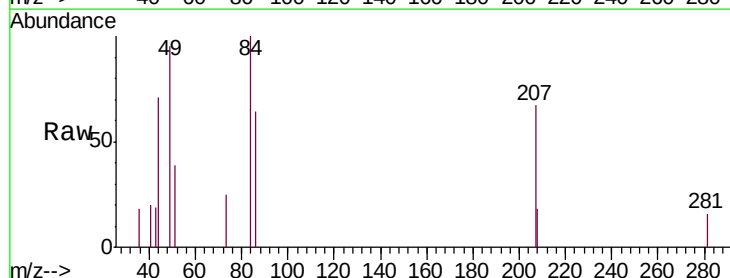
Ion Ratio Lower Upper

84 100

49 94.9 81.8 122.8

51 39.4 25.8 38.8#

86 63.7 50.4 75.6



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

600

500

400

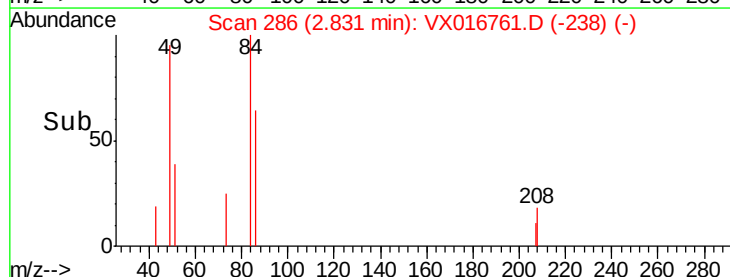
300

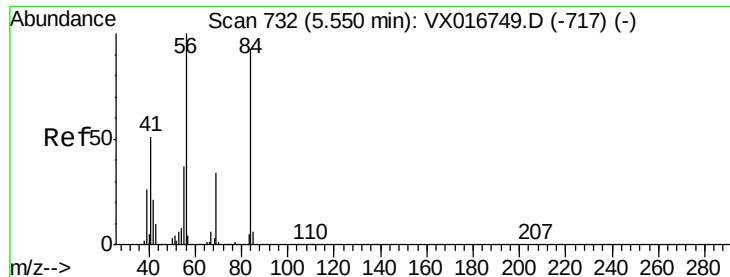
200

100

0

Time--> 2.80 2.85

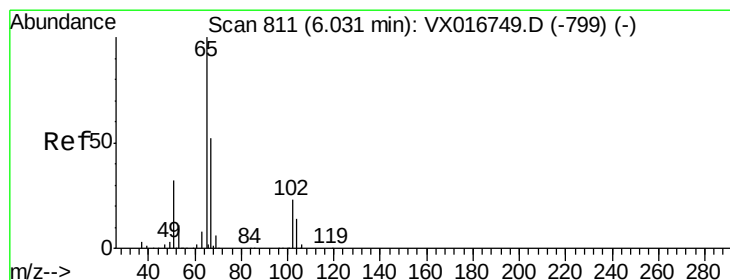
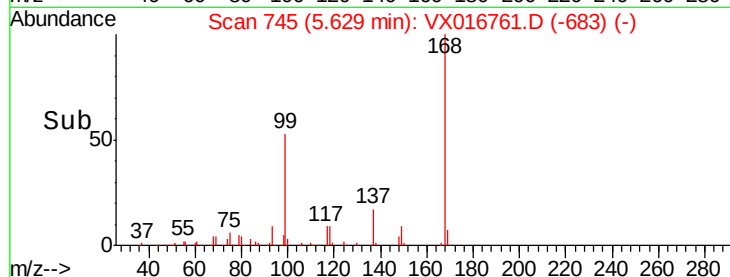
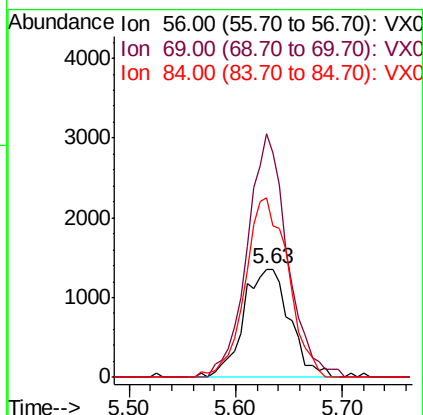
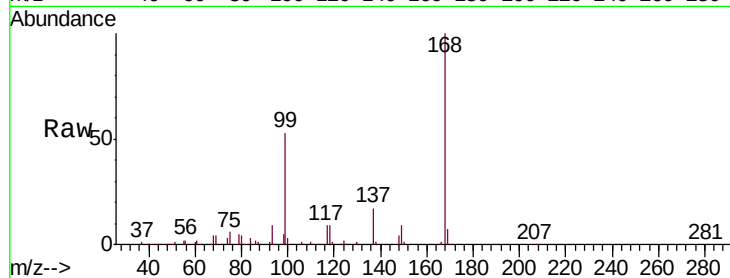




#31  
Cyclohexane  
Concen: 1.877 ug/l  
RT: 5.63 min Scan# 745  
Delta R.T. 0.08 min  
Lab File: VX016761.D  
Acq: 15 Jun 2020 18:03

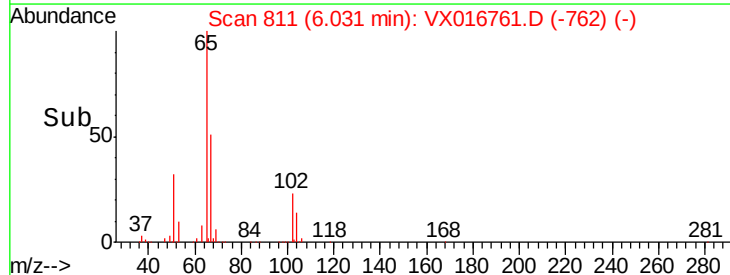
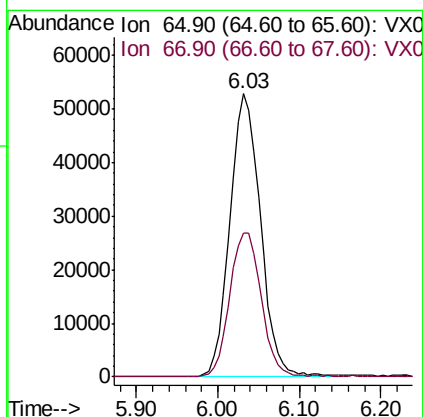
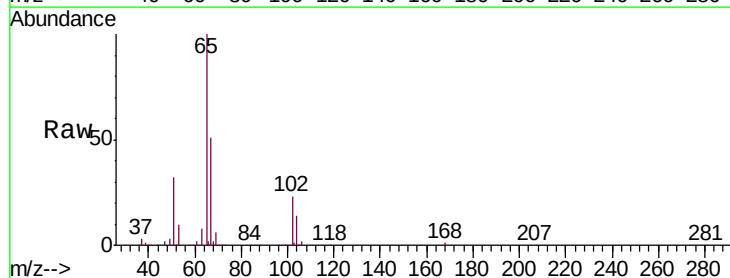
Instrument :  
MSVOA\_X  
ClientSampleId :  
Z1-TB6-200610

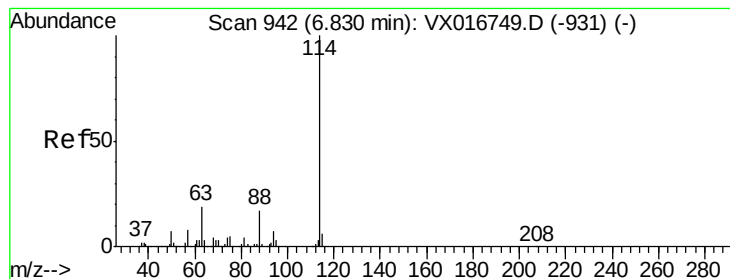
Tgt Ion: 56 Resp: 4135  
Ion Ratio Lower Upper  
56 100  
69 225.4 27.1 40.7#  
84 166.7 74.0 111.0#



#33  
1,2-Dichloroethane-d4  
Concen: 51.078 ug/l  
RT: 6.03 min Scan# 811  
Delta R.T. 0.00 min  
Lab File: VX016761.D  
Acq: 15 Jun 2020 18:03

Tgt Ion: 65 Resp: 136984  
Ion Ratio Lower Upper  
65 100  
67 52.3 0.0 103.0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.84 min Scan# 943

Delta R.T. 0.01 min

Lab File: VX016761.D

Acq: 15 Jun 2020 18:03

Instrument :

MSVOA\_X

ClientSampleId :

Z1-TB6-200610

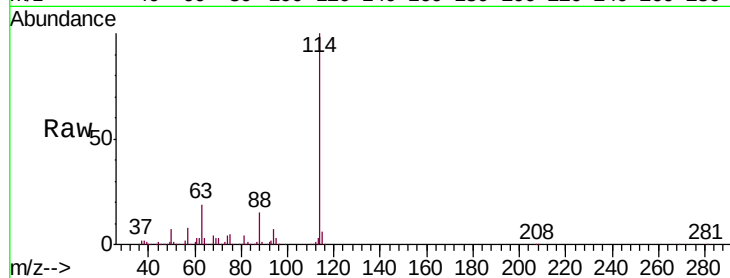
Tgt Ion:114 Resp: 375891

Ion Ratio Lower Upper

114 100

63 19.0 0.0 38.8

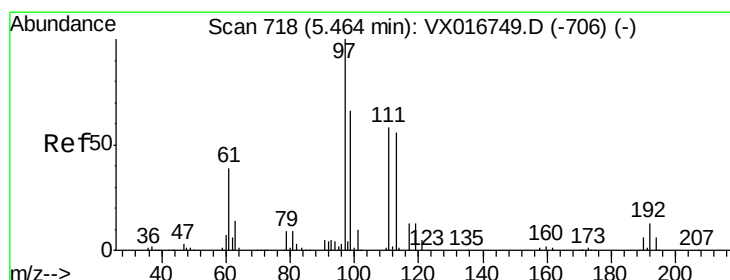
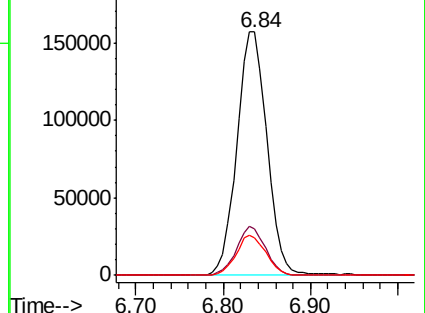
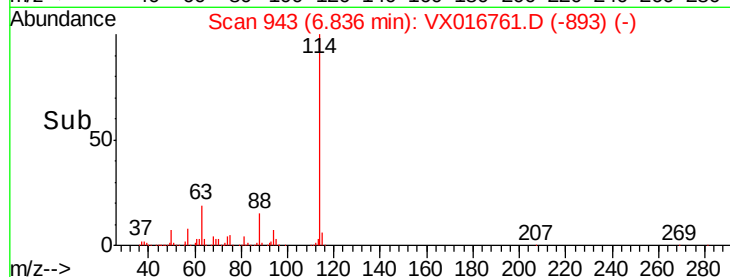
88 15.4 0.0 33.4



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: 49.508 ug/l

RT: 5.47 min Scan# 719

Delta R.T. 0.01 min

Lab File: VX016761.D

Acq: 15 Jun 2020 18:03

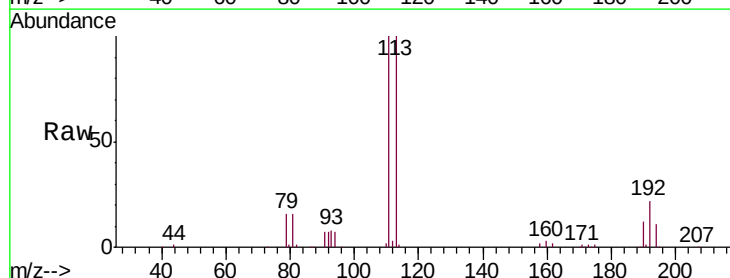
Tgt Ion:113 Resp: 114818

Ion Ratio Lower Upper

113 100

111 101.4 81.8 122.6

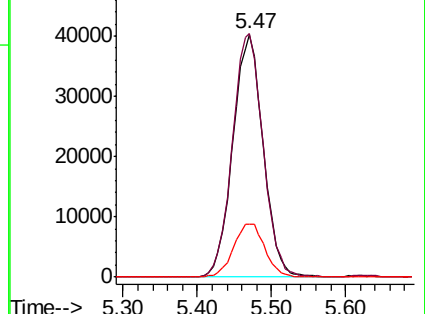
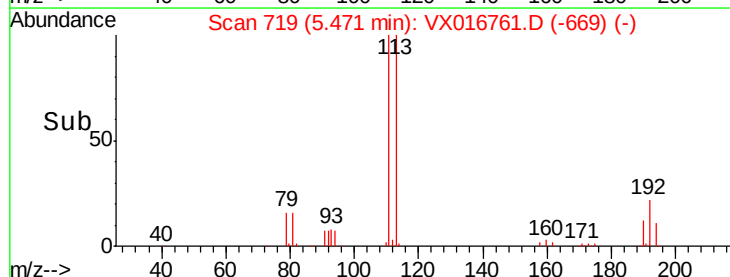
192 22.7 18.2 27.4

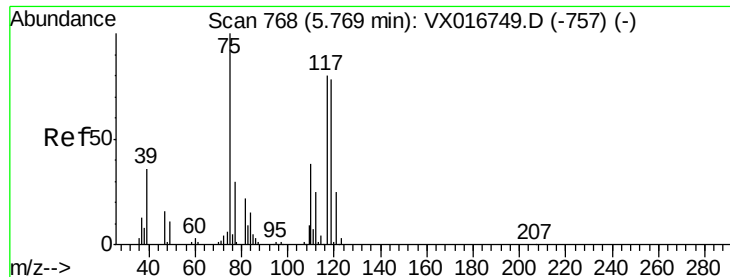


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

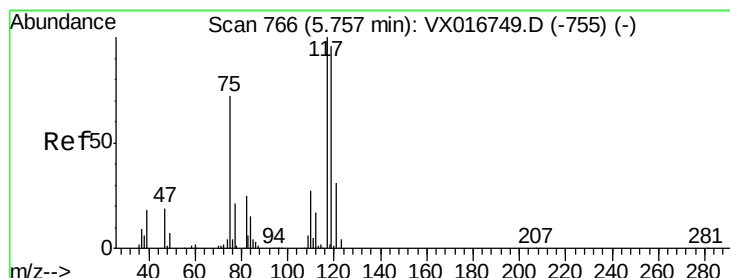
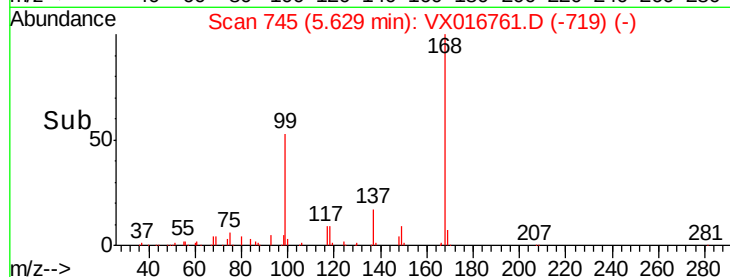
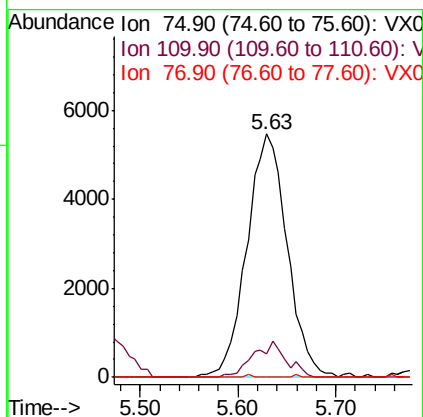
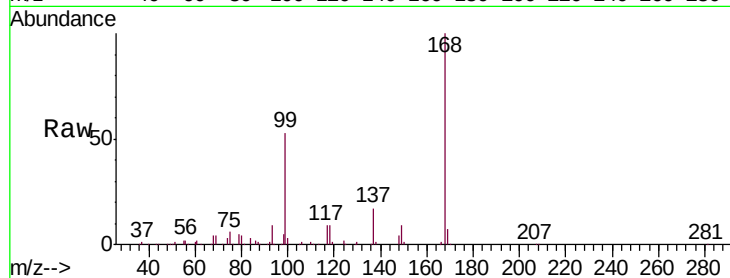




#36  
 1,1-Dichloropropene  
 Concen: 4.707 ug/l  
 RT: 5.63 min Scan# 745  
 Delta R.T. -0.14 min  
 Lab File: VX016761.D  
 Acq: 15 Jun 2020 18:03

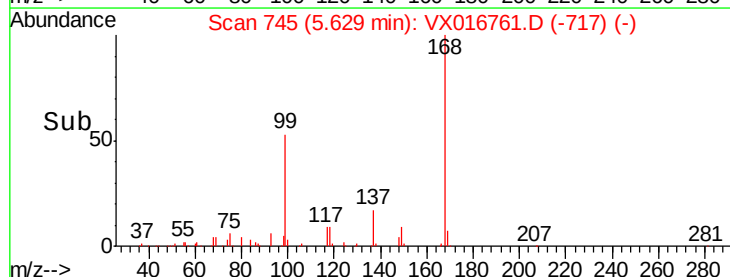
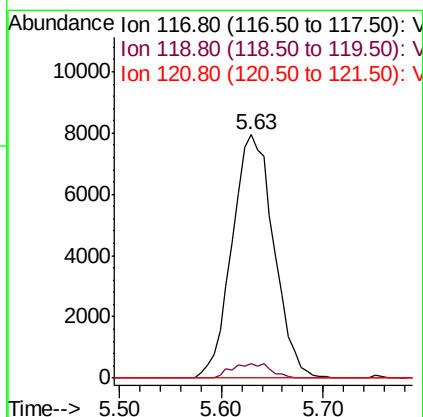
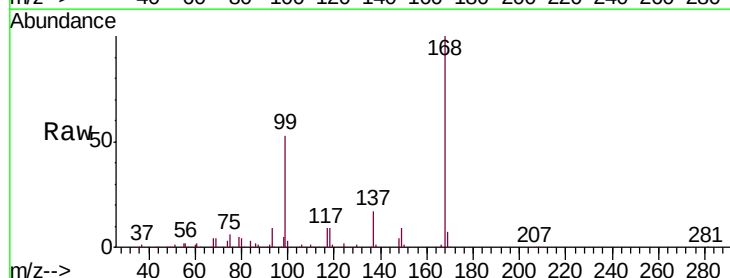
Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 Z1-TB6-200610

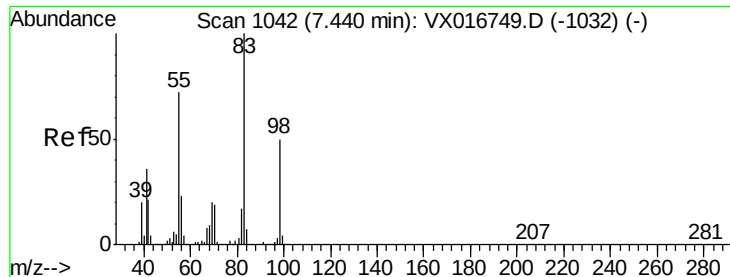
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 75      | 100   |       |       |
| 110     | 12.5  | 18.4  | 55.2# |
| 77      | 0.0   | 24.7  | 37.1# |



#38  
 Carbon Tetrachloride  
 Concen: 5.975 ug/l  
 RT: 5.63 min Scan# 745  
 Delta R.T. -0.13 min  
 Lab File: VX016761.D  
 Acq: 15 Jun 2020 18:03

| Tgt Ion | Ratio | Lower | Upper  |
|---------|-------|-------|--------|
| 117     | 100   |       |        |
| 119     | 6.0   | 76.7  | 115.1# |
| 121     | 0.0   | 24.7  | 37.1#  |

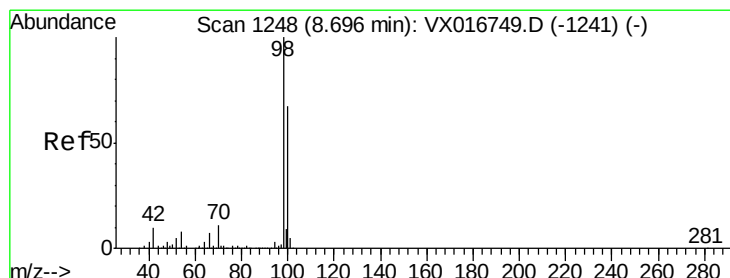
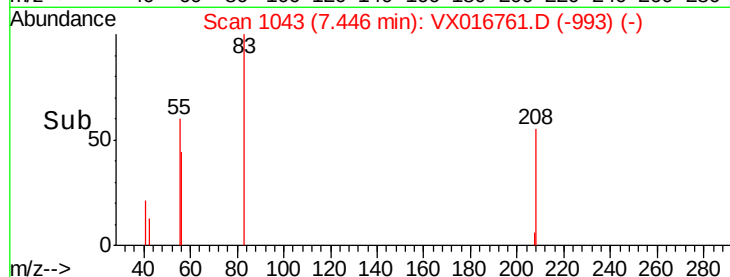
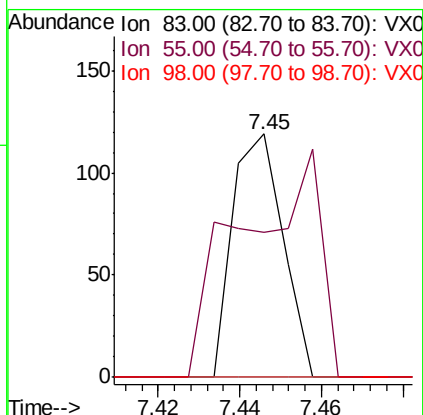
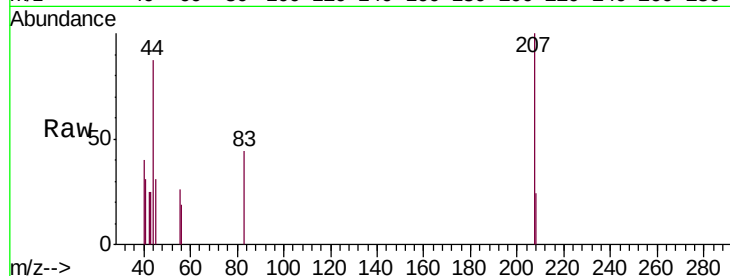




#39  
Methylcyclohexane  
Concen: 0.979 ug/l  
RT: 7.45 min Scan# 1043  
Delta R.T. 0.01 min  
Lab File: VX016761.D  
Acq: 15 Jun 2020 18:03

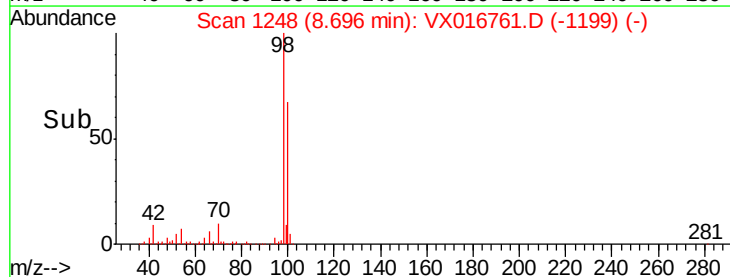
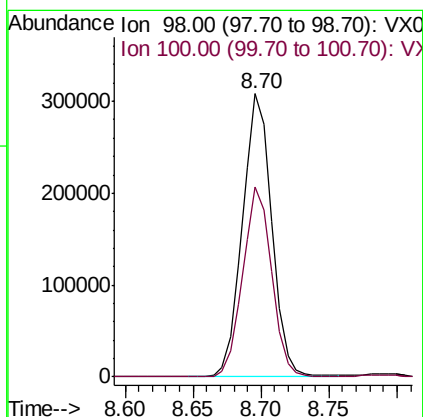
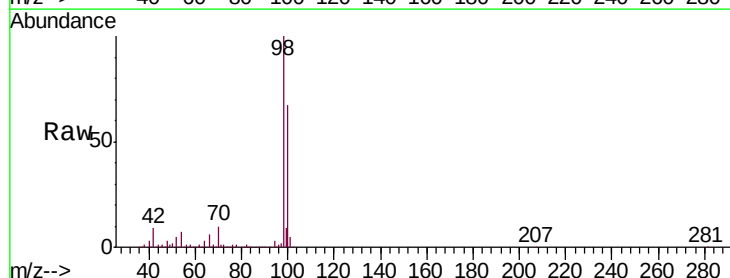
Instrument :  
MSVOA\_X  
ClientSampleId :  
Z1-TB6-200610

Tgt Ion: 83 Resp: 102  
Ion Ratio Lower Upper  
83 100  
55 59.7 57.3 85.9  
98 0.0 40.3 60.5#

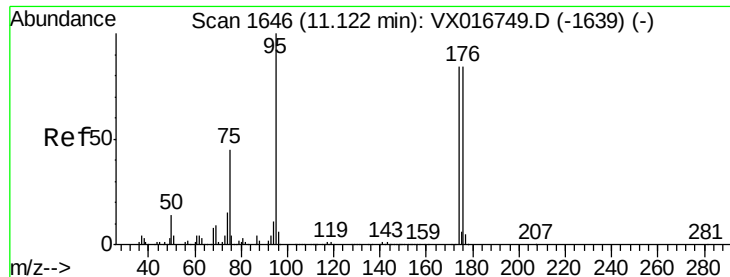


#50  
Toluene-d8  
Concen: 54.464 ug/l  
RT: 8.70 min Scan# 1248  
Delta R.T. -0.00 min  
Lab File: VX016761.D  
Acq: 15 Jun 2020 18:03

Tgt Ion: 98 Resp: 465743  
Ion Ratio Lower Upper  
98 100  
100 66.3 53.9 80.9







#62

4-Bromofluorobenzene

Concen: 58.576 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.00 min

Lab File: VX016761.D

Acq: 15 Jun 2020 18:03

Instrument :

MSVOA\_X

ClientSampleId :

Z1-TB6-200610

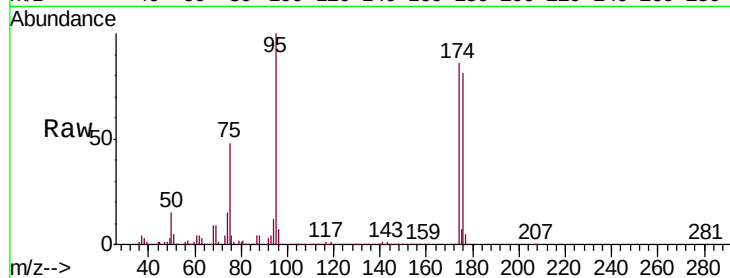
Tgt Ion: 95 Resp: 191598

Ion Ratio Lower Upper

95 100

174 86.4 0.0 171.0

176 83.6 0.0 166.2

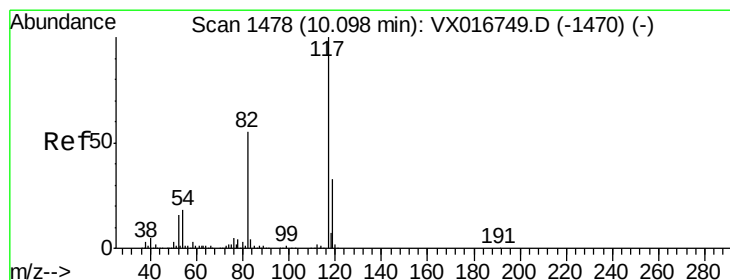
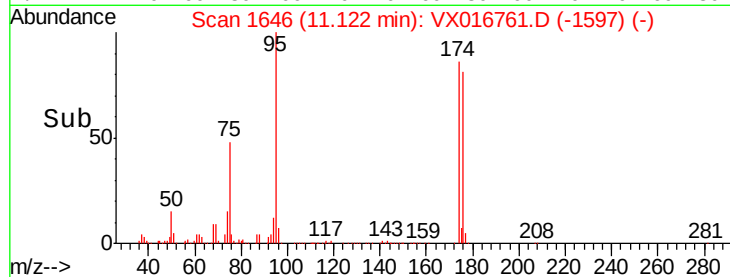
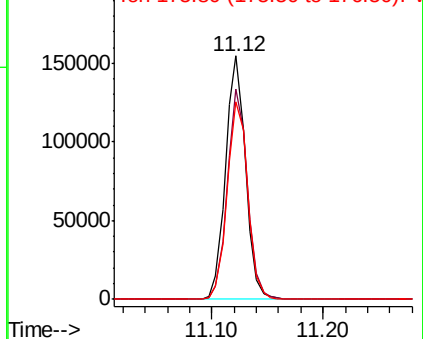


Abundance

Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.10 min Scan# 1478

Delta R.T. -0.00 min

Lab File: VX016761.D

Acq: 15 Jun 2020 18:03

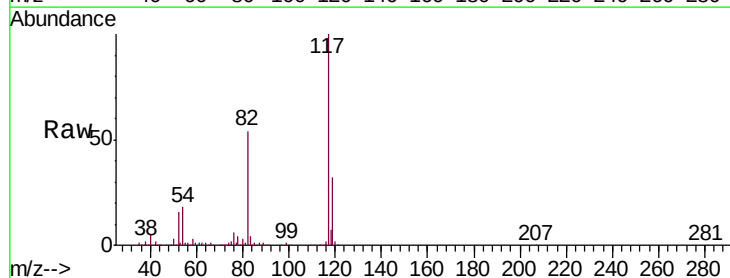
Tgt Ion: 117 Resp: 387364

Ion Ratio Lower Upper

117 100

82 53.9 43.8 65.6

119 31.6 26.2 39.4

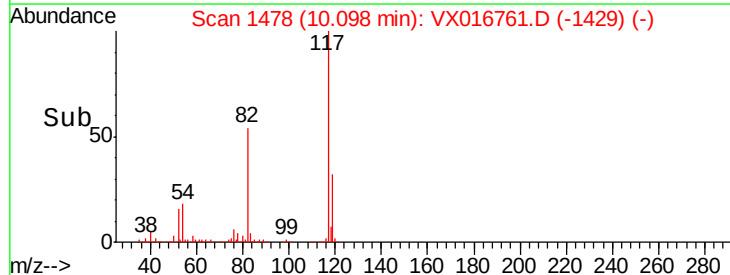
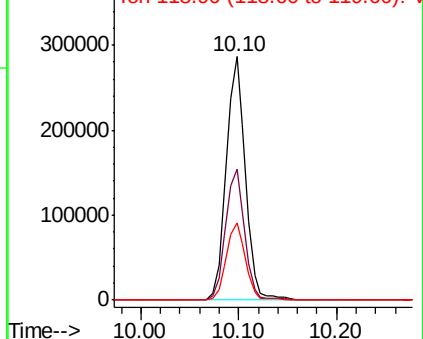


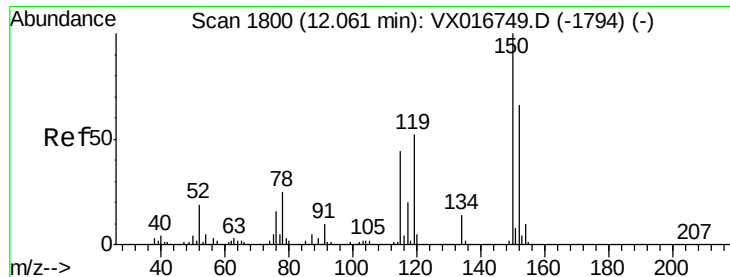
Abundance

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: VX016761.D

Acq: 15 Jun 2020 18:03

Instrument :

MSVOA\_X

ClientSampleId :

Z1-TB6-200610

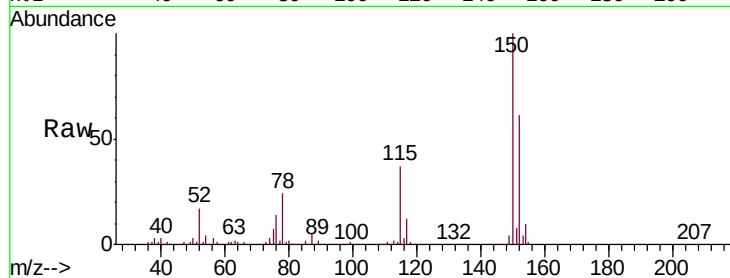
Tgt Ion:152 Resp: 200937

Ion Ratio Lower Upper

152 100

115 58.1 40.3 120.8

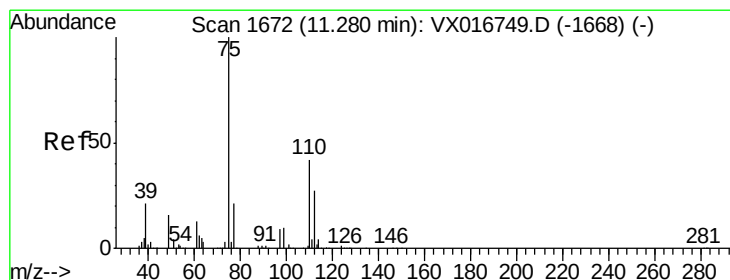
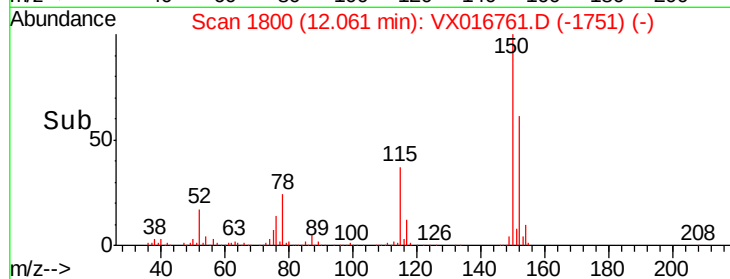
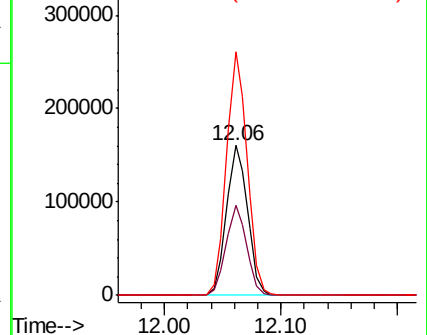
150 158.7 0.0 337.4



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: 21.780 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.16 min

Lab File: VX016761.D

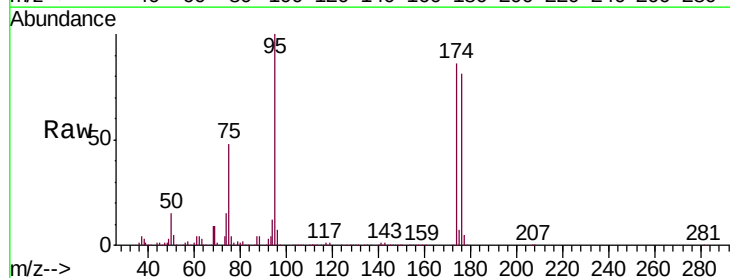
Acq: 15 Jun 2020 18:03

Tgt Ion: 75 Resp: 92032

Ion Ratio Lower Upper

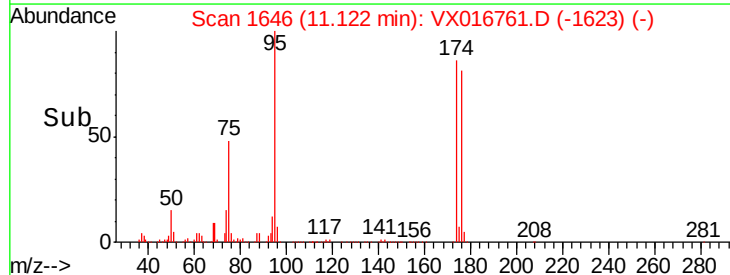
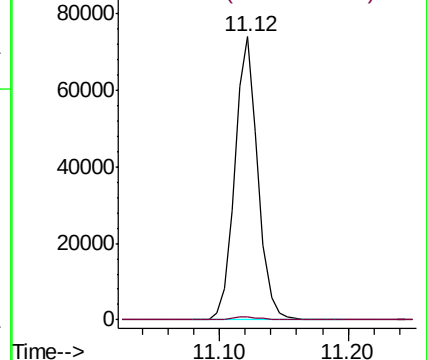
75 100

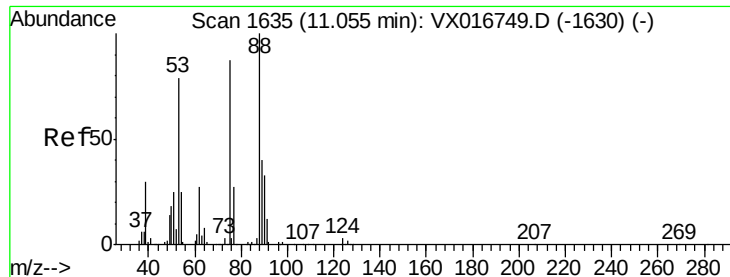
77 1.3 20.3 60.9#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0





#81

trans-1,4-Dichloro-2-butene

Concen: 54.829 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.07 min

Lab File: VX016761.D

Acq: 15 Jun 2020 18:03

Instrument :

MSVOA\_X

ClientSampleId :

Z1-TB6-200610

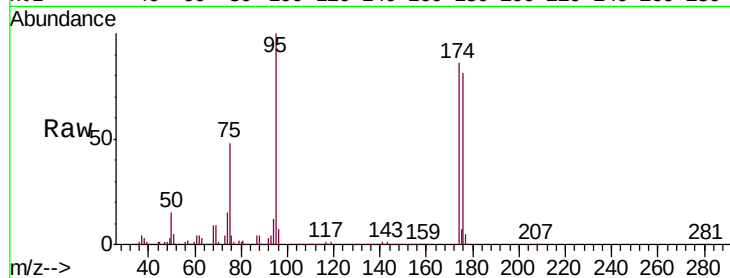
Tgt Ion: 75 Resp: 92032

Ion Ratio Lower Upper

75 100

53 0.0 71.4 107.0#

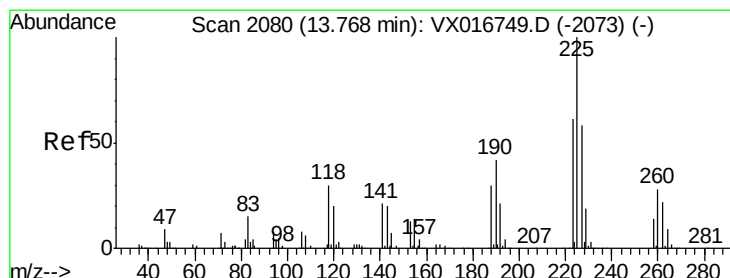
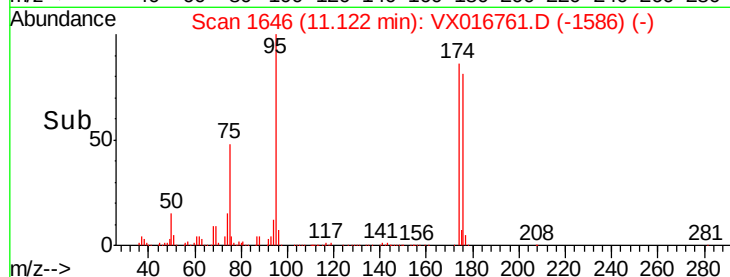
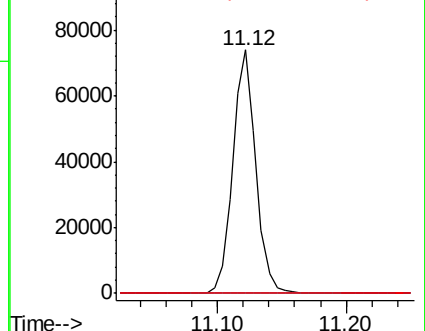
89 0.0 39.1 58.7#



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



#94

Hexachlorobutadiene

Concen: 0.514 ug/l

RT: 13.77 min Scan# 2080

Delta R.T. 0.00 min

Lab File: VX016761.D

Acq: 15 Jun 2020 18:03

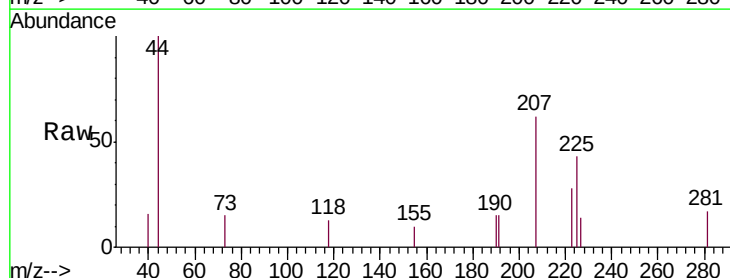
Tgt Ion: 225 Resp: 197

Ion Ratio Lower Upper

225 100

223 68.5 31.1 93.5

227 31.0 30.9 92.7



Abundance Ion 224.70 (224.40 to 225.40): V

Ion 222.70 (222.40 to 223.40): V

Ion 226.70 (226.40 to 227.40): V

