

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX011520\  
 Data File : VX014625.D  
 Acq On : 15 Jan 2020 17:47  
 Operator : JC/SP  
 Sample : L1135-03DL 10X  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 18 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 REP-011420DL

Quant Time: Jan 17 12:38:35 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA X\METHOD\624X011520W.M  
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
 QLast Update : Wed Jan 15 12:41:12 2020  
 Response via : Initial Calibration

| Internal Standards      | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------|-------|------|----------|-------|-------|----------|
| 1) Bromochloromethane   | 5.01  | 128  | 73260    | 30.00 | ug/l  | 0.00     |
| 28) 1,4-Difluorobenzene | 6.85  | 114  | 400882   | 30.00 | ug/l  | 0.00     |
| 57) Chlorobenzene-d5    | 10.11 | 117  | 348240   | 30.00 | ug/l  | 0.00     |

## System Monitoring Compounds

|                           |        |       |          |          |      |         |
|---------------------------|--------|-------|----------|----------|------|---------|
| 27) 1,2-Dichloroethane-d4 | 6.05   | 65    | 162264   | 31.51    | ug/l | 0.00    |
| Spiked Amount             | 30.000 | Range | 50 - 169 | Recovery | =    | 105.03% |
| 60) 4-Bromofluorobenzene  | 11.14  | 95    | 153254   | 27.50    | ug/l | 0.00    |
| Spiked Amount             | 30.000 | Range | 56 - 143 | Recovery | =    | 91.67%  |
| 63) Toluene-d8            | 8.71   | 98    | 477312   | 30.34    | ug/l | 0.00    |
| Spiked Amount             | 30.000 | Range | 66 - 137 | Recovery | =    | 101.13% |

## Target Compounds

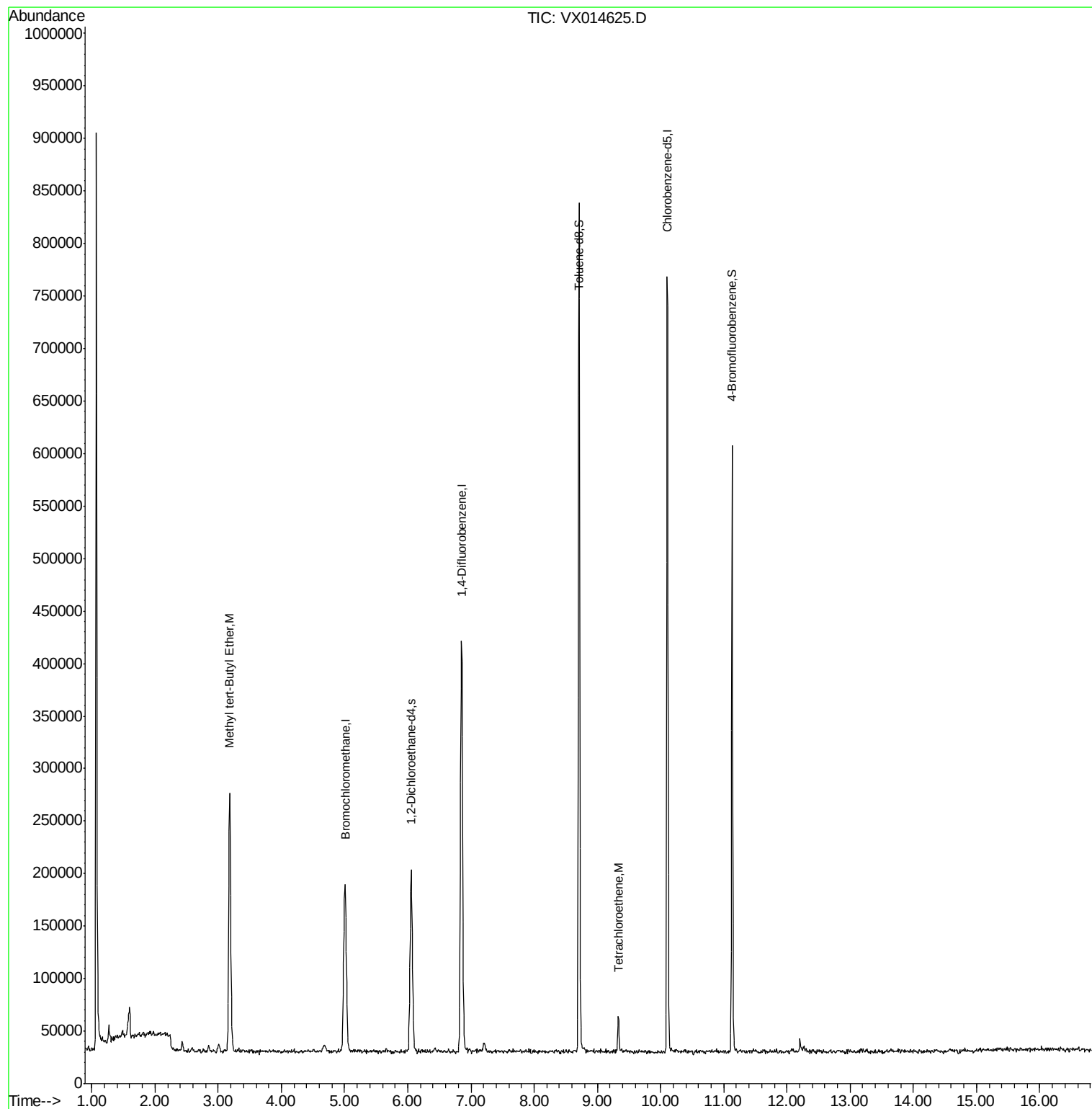
|                             |      |     |        |        | Ovalue  |
|-----------------------------|------|-----|--------|--------|---------|
| 24) Methyl tert-Butyl Ether | 3.18 | 73  | 276708 | 20.502 | ug/l 99 |
| 61) Tetrachloroethene       | 9.33 | 164 | 6654   | 1.293  | ug/l 86 |

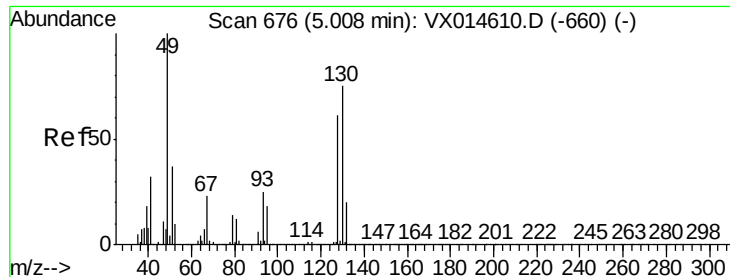
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA X\METHOD\624X011520W.M  
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
QLast Update : Wed Jan 15 12:41:12 2020  
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 30.000 ug/l

RT: 5.01 min Scan# 676

Delta R.T. 0.01 min

Lab File: VX014625.D

Acq: 15 Jan 2020 17:47

Instrument :

MSVOA\_X

ClientSampleId :

REP-011420DL

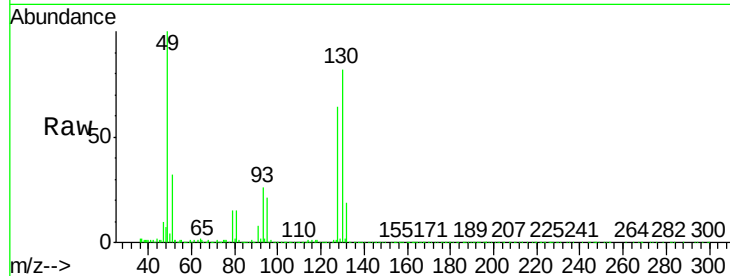
Tot Ion:128 Resp: 73260

Ion Ratio Lower Upper

128 100

49 162.9 0.0 405.0

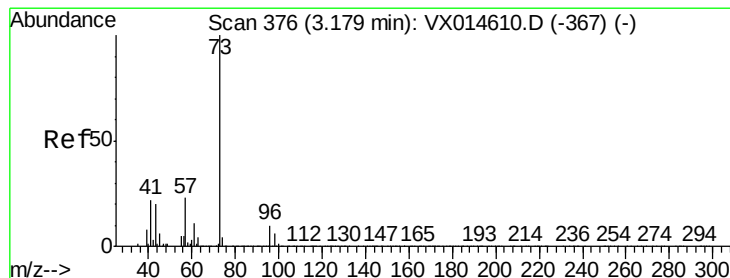
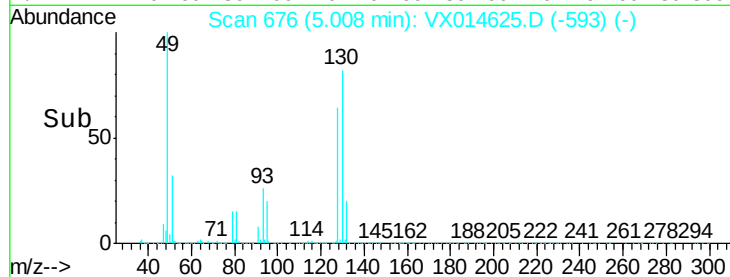
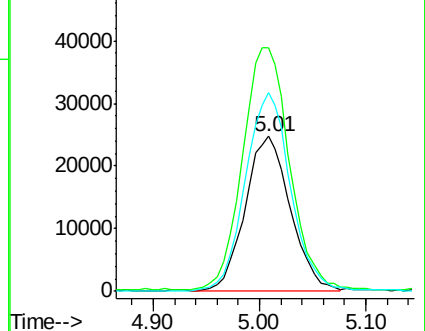
130 129.5 0.0 321.5



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 49.00 (48.70 to 49.70): VX0

Ion 130.00 (129.70 to 130.70): V



#24

Methyl tert-Butyl Ether

Concen: 20.502 ug/l

RT: 3.18 min Scan# 376

Delta R.T. -0.01 min

Lab File: VX014625.D

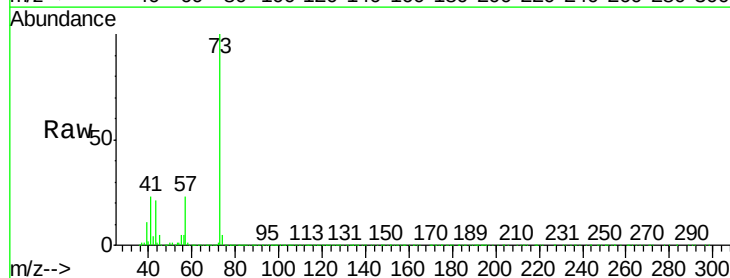
Acq: 15 Jan 2020 17:47

Tgt Ion: 73 Resp: 276708

Ion Ratio Lower Upper

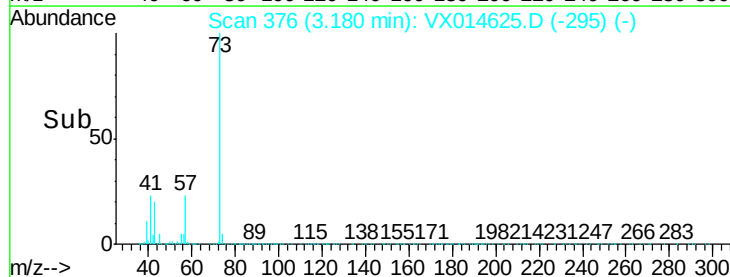
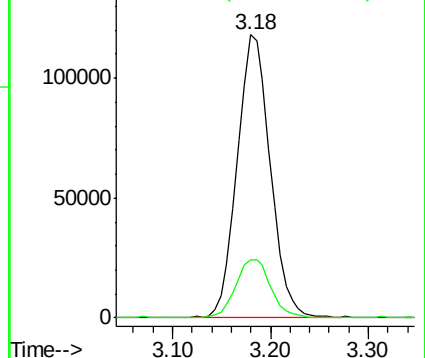
73 100

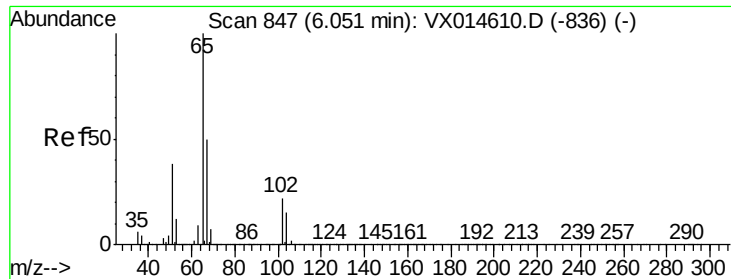
43 21.1 16.6 25.0



Abundance Ion 73.00 (72.70 to 73.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

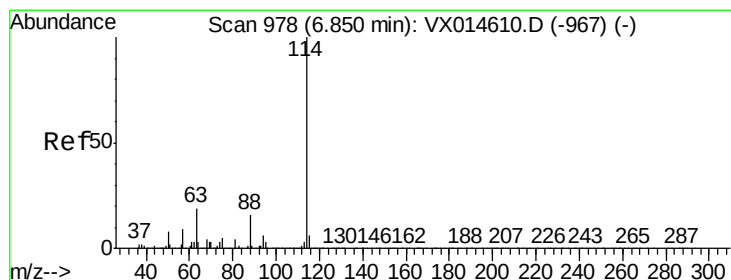
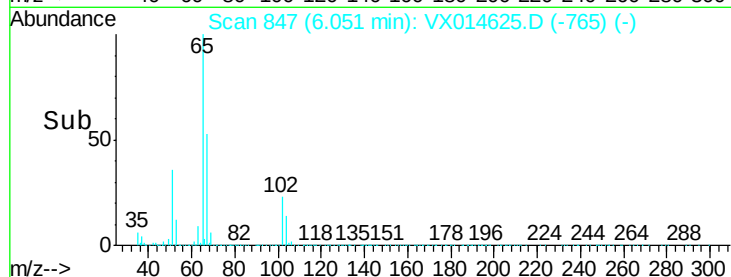
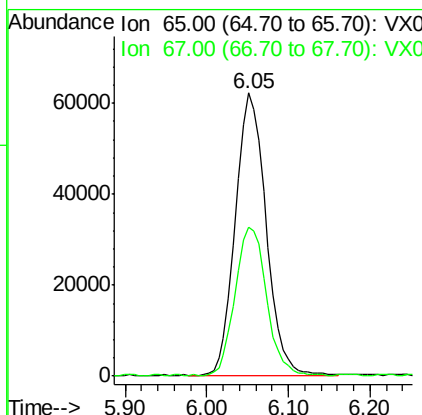
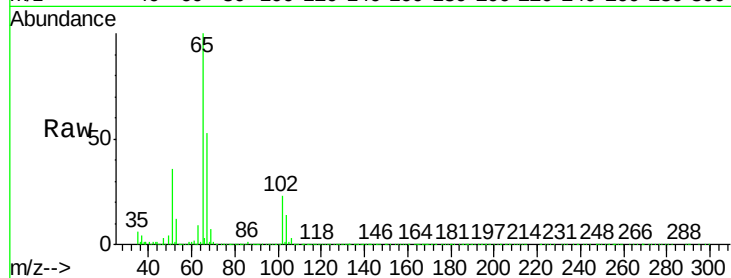




#27  
 1,2-Dichloroethane-d4  
 Concen: 31.512 ug/l  
 RT: 6.05 min Scan# 847  
 Delta R.T. 0.00 min  
 Lab File: VX014625.D  
 Acq: 15 Jan 2020 17:47

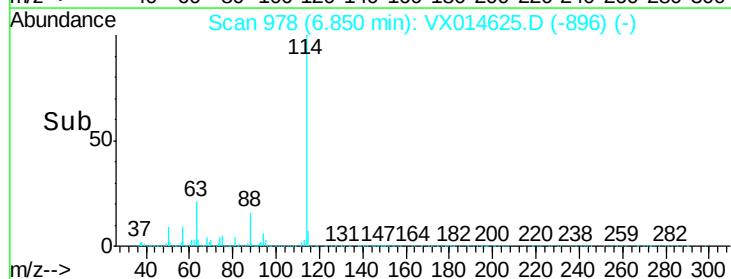
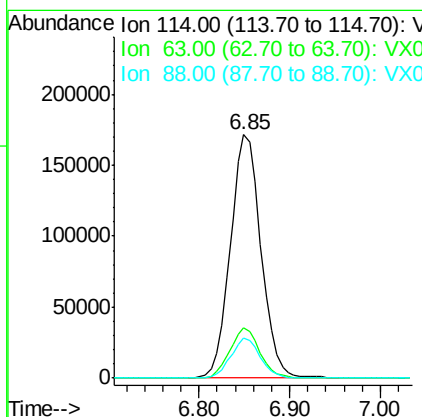
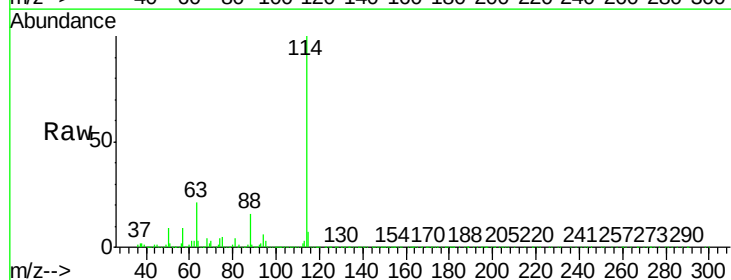
Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 REP-011420DL

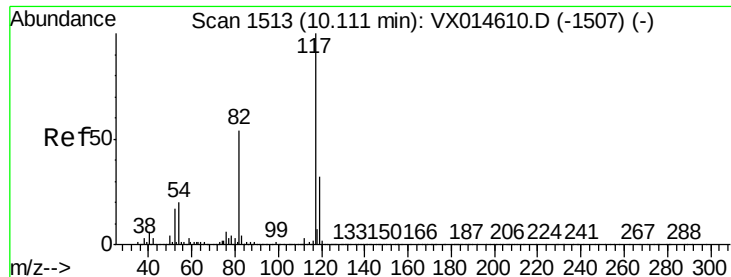
Tot Ion: 65 Resp: 162264  
 Ion Ratio Lower Upper  
 65 100  
 67 53.9 43.1 64.7



#28  
 1,4-Difluorobenzene  
 Concen: 30.000 ug/l  
 RT: 6.85 min Scan# 978  
 Delta R.T. 0.00 min  
 Lab File: VX014625.D  
 Acq: 15 Jan 2020 17:47

Tgt Ion: 114 Resp: 400882  
 Ion Ratio Lower Upper  
 114 100  
 63 20.1 16.1 24.1  
 88 15.8 12.5 18.7

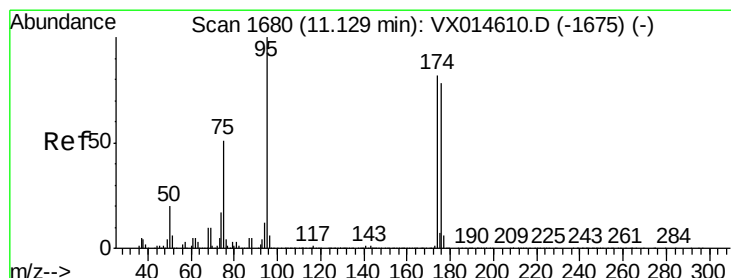
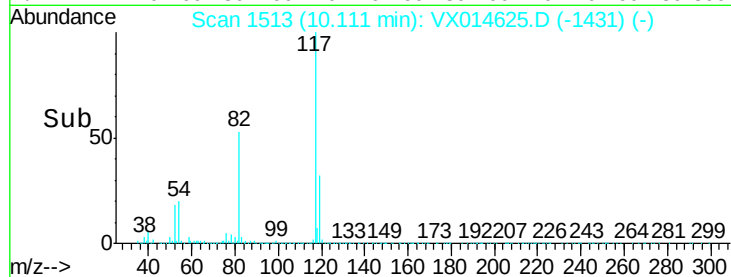
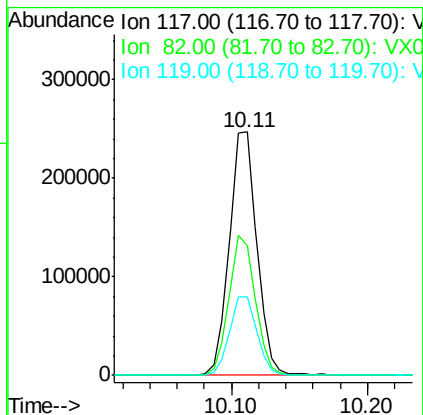
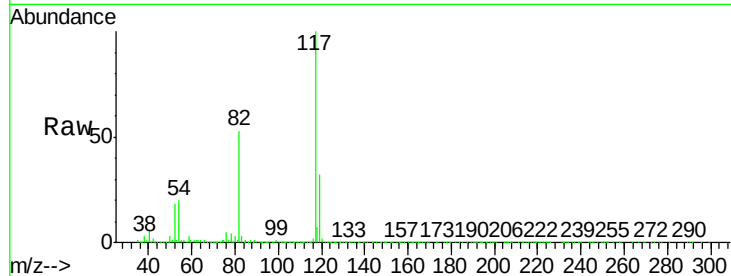




#57  
Chlorobenzene-d5  
Concen: 30.000 ug/l  
RT: 10.11 min Scan# 1513  
Delta R.T. 0.00 min  
Lab File: VX014625.D  
Acq: 15 Jan 2020 17:47

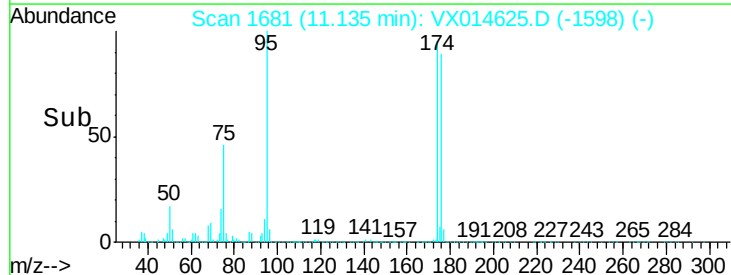
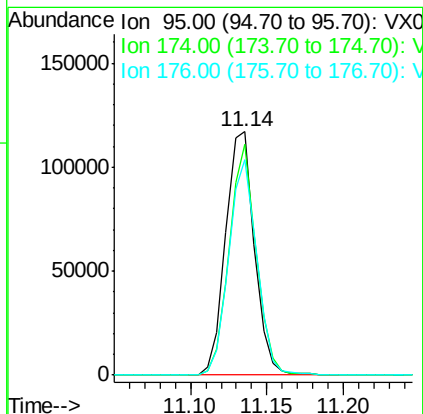
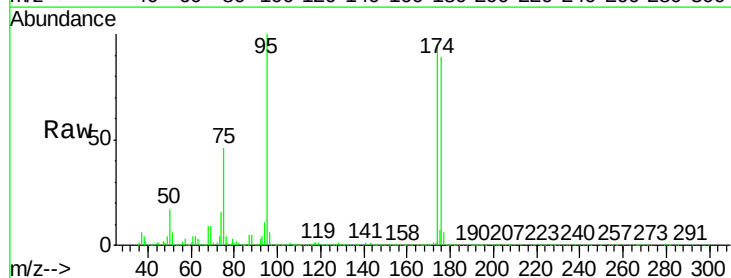
Instrument :  
MSVOA\_X  
ClientSampleId :  
REP-011420DL

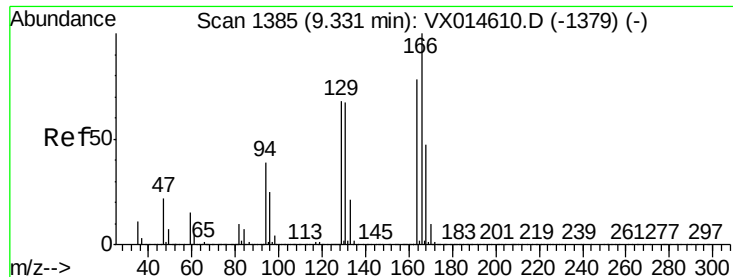
Tot Ion:117 Resp: 348240  
Ion Ratio Lower Upper  
117 100  
82 54.9 43.8 65.6  
119 32.4 25.8 38.6



#60  
4-Bromofluorobenzene  
Concen: 27.502 ug/l  
RT: 11.14 min Scan# 1681  
Delta R.T. 0.01 min  
Lab File: VX014625.D  
Acq: 15 Jan 2020 17:47

Tgt Ion: 95 Resp: 153254  
Ion Ratio Lower Upper  
95 100  
174 88.7 70.2 105.2  
176 86.1 68.3 102.5





#61

Tetrachloroethene

Concen: 1.293 ug/l

RT: 9.33 min Scan# 1385

Delta R.T. 0.00 min

Lab File: VX014625.D

Acq: 15 Jan 2020 17:47

Instrument :

MSVOA\_X

ClientSampleId :

REP-011420DL

Tot Ion:164 Resp: 6654

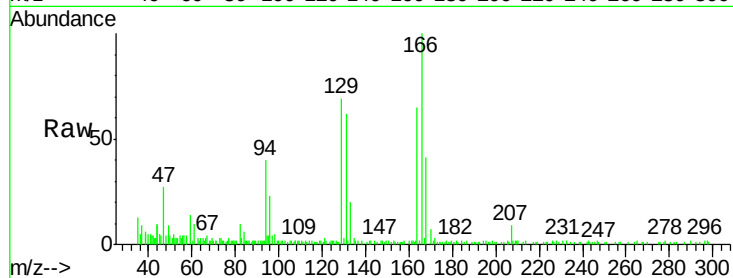
Ion Ratio Lower Upper

164 100

166 152.4 104.2 156.2

129 103.6 71.6 107.4

131 94.4 71.7 107.5

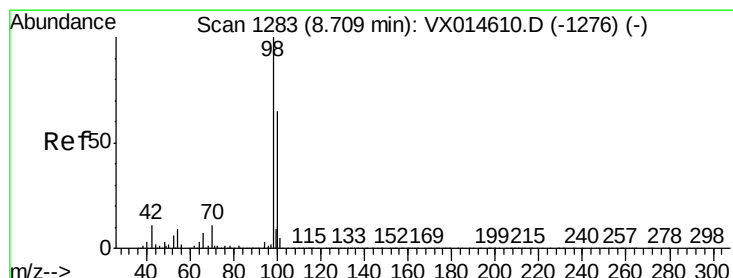
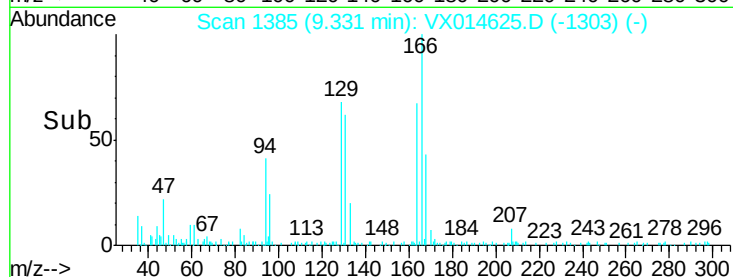
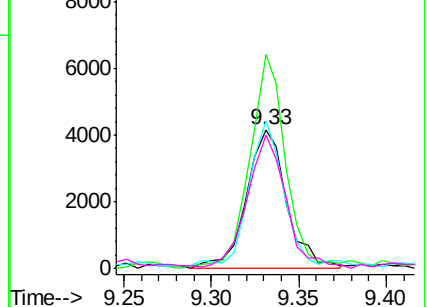


Abundance Ion 163.85 (163.55 to 164.55): V

Ion 165.80 (165.50 to 166.50): V

Ion 128.90 (128.60 to 129.60): V

Ion 130.90 (130.60 to 131.60): V



#63

Toluene-d8

Concen: 30.344 ug/l

RT: 8.71 min Scan# 1283

Delta R.T. 0.00 min

Lab File: VX014625.D

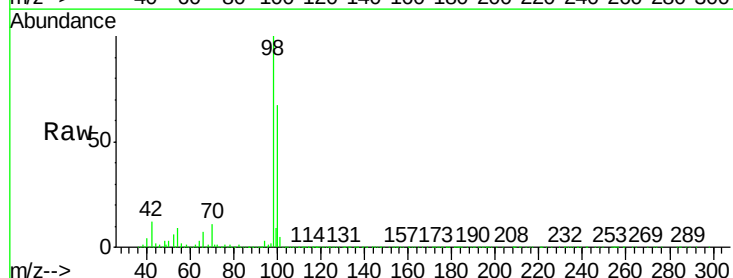
Acq: 15 Jan 2020 17:47

Tgt Ion: 98 Resp: 477312

Ion Ratio Lower Upper

98 100

100 65.7 52.2 78.2



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V

