

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX080819\  
 Data File : VX011387.D  
 Acq On : 08 Aug 2019 13:18  
 Operator : JC/SP  
 Sample : K4220-09DL 5X  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 10 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 MW-23B\_080719DL

Quant Time: Aug 09 04:45:30 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X080119W.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Aug 02 01:55:00 2019  
 Response via : Initial Calibration

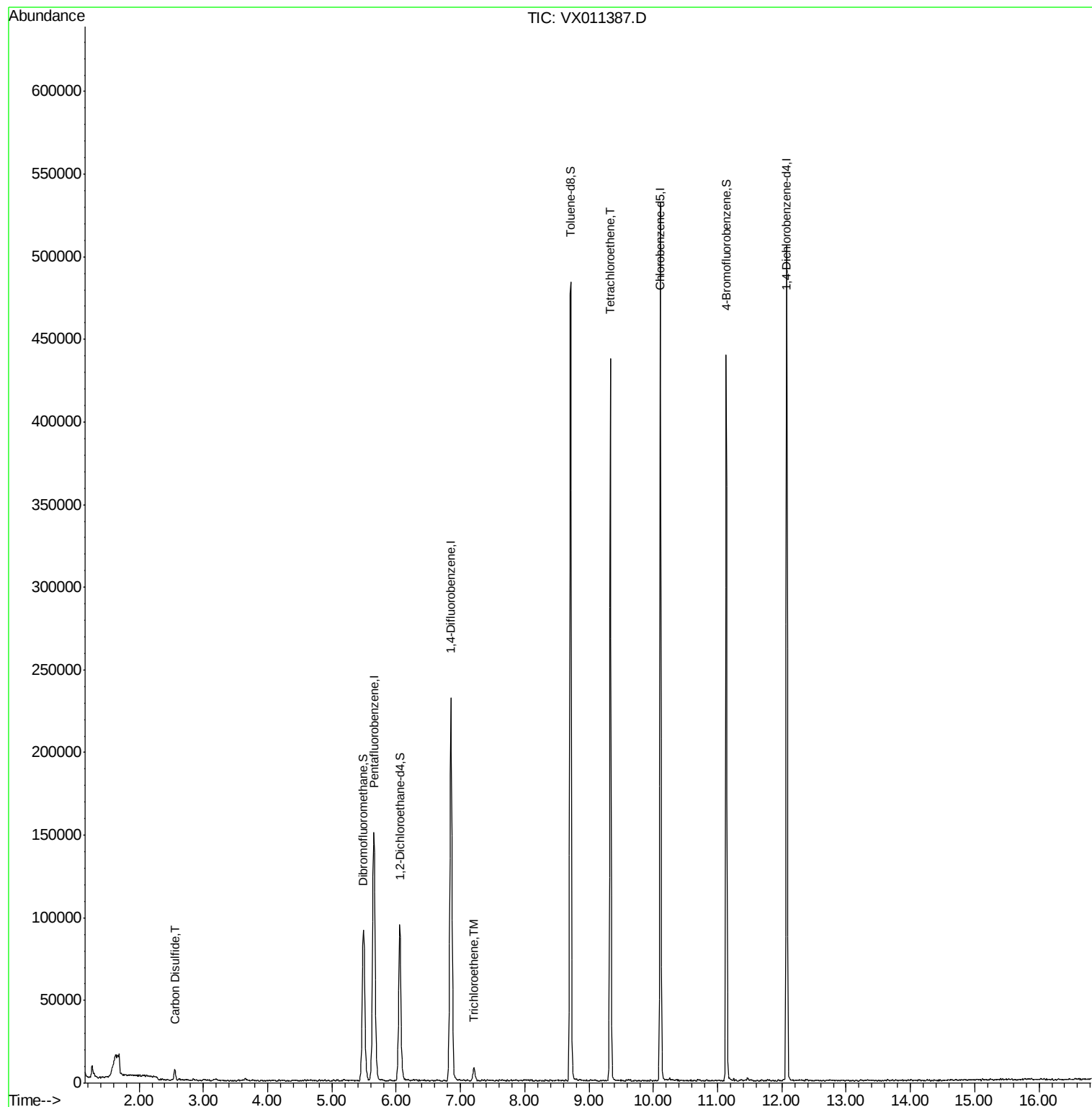
| Internal Standards          | R.T.  | QIon | Response | Conc   | Units   | Dev(Min) |
|-----------------------------|-------|------|----------|--------|---------|----------|
| 1) Pentafluorobenzene       | 5.65  | 168  | 147758   | 50.00  | ug/l    | 0.00     |
| 34) 1,4-Difluorobenzene     | 6.85  | 114  | 242573   | 50.00  | ug/l    | 0.00     |
| 63) Chlorobenzene-d5        | 10.11 | 117  | 235347   | 50.00  | ug/l    | 0.00     |
| 72) 1,4-Dichlorobenzene-d4  | 12.08 | 152  | 106944   | 50.00  | ug/l    | 0.00     |
| System Monitoring Compounds |       |      |          |        |         |          |
| 33) 1,2-Dichloroethane-d4   | 6.06  | 65   | 86976    | 58.45  | ug/l    | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =      | 116.90% |          |
| 35) Dibromofluoromethane    | 5.49  | 113  | 77108    | 48.69  | ug/l    | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =      | 97.38%  |          |
| 50) Toluene-d8              | 8.71  | 98   | 298940   | 50.01  | ug/l    | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =      | 100.02% |          |
| 62) 4-Bromofluorobenzene    | 11.13 | 95   | 106548   | 49.92  | ug/l    | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =      | 99.84%  |          |
| Target Compounds            |       |      |          |        |         |          |
| 17) Carbon Disulfide        | 2.56  | 76   | 8986     | 2.848  | ug/l    | 98       |
| 44) Trichloroethene         | 7.21  | 130  | 3326     | 1.739  | ug/l    | 97       |
| 64) Tetrachloroethene       | 9.34  | 164  | 85070    | 42.564 | ug/l    | 96       |

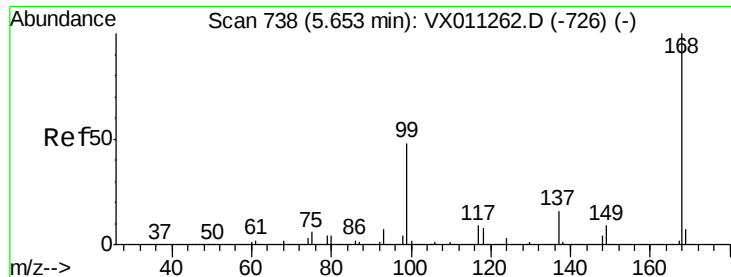
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260  
QLast Update : Fri Aug 02 01:55:00 2019  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.65 min Scan# 738

Delta R.T. 0.00 min

Lab File: VX011387.D

Acq: 08 Aug 2019 13:18

Instrument :

MSVOA\_X

ClientSampleId :

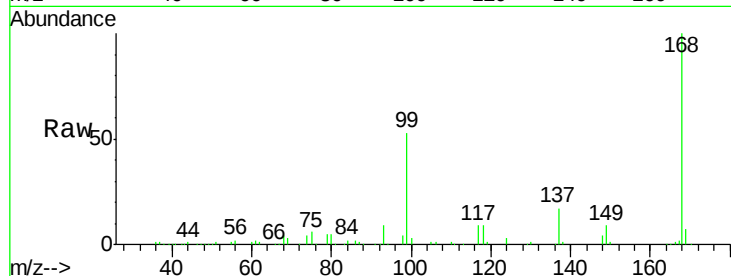
MW-23B\_080719DL

Tot Ion:168 Resp: 147758

Ion Ratio Lower Upper

168 100

99 52.9 38.5 57.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.65

60000

50000

40000

30000

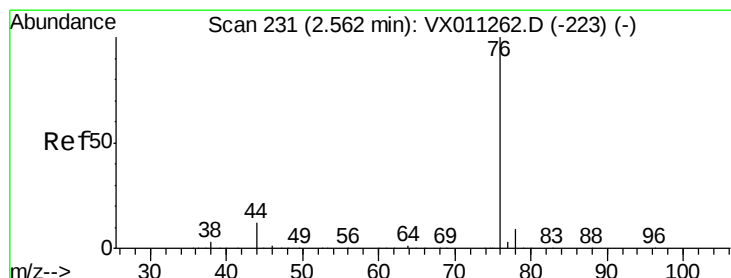
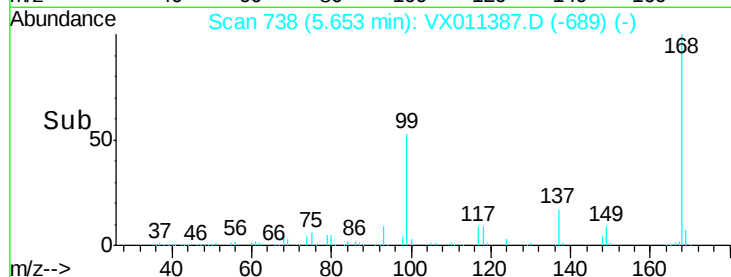
20000

10000

0

Time-->

5.50 5.60 5.70 5.80



#17

Carbon Disulfide

Concen: 2.848 ug/l

RT: 2.56 min Scan# 230

Delta R.T. -0.01 min

Lab File: VX011387.D

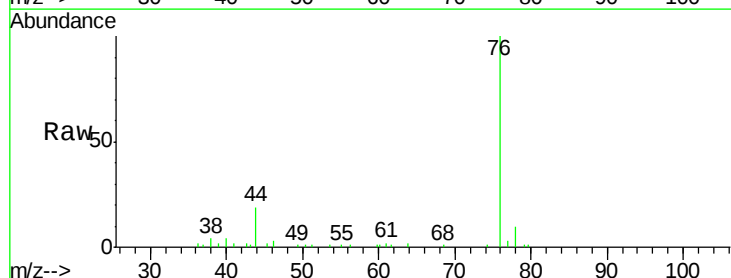
Acq: 08 Aug 2019 13:18

Tgt Ion: 76 Resp: 8986

Ion Ratio Lower Upper

76 100

78 9.8 7.4 11.0



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0

2.56

5000

4000

3000

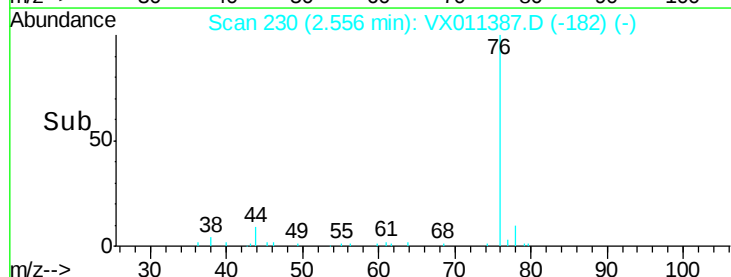
2000

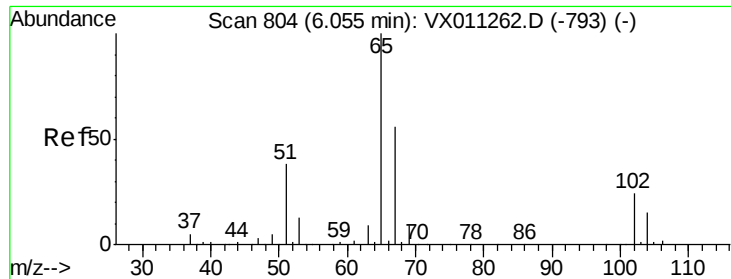
1000

0

Time-->

2.50 2.55 2.60 2.65

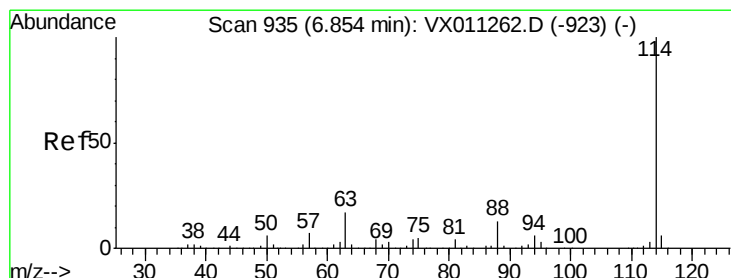
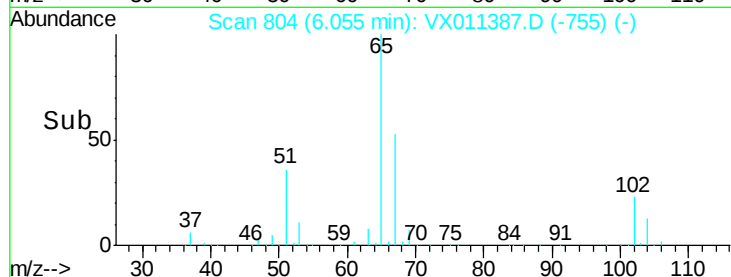
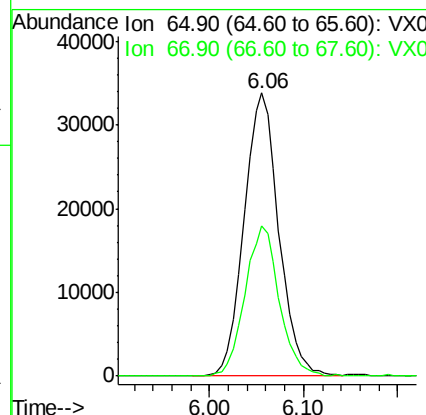
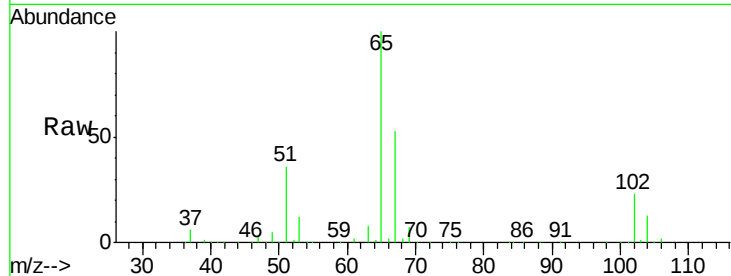




#33  
 1,2-Dichloroethane-d4  
 Concen: 58.452 ug/l  
 RT: 6.06 min Scan# 804  
 Delta R.T. 0.00 min  
 Lab File: VX011387.D  
 Acq: 08 Aug 2019 13:18

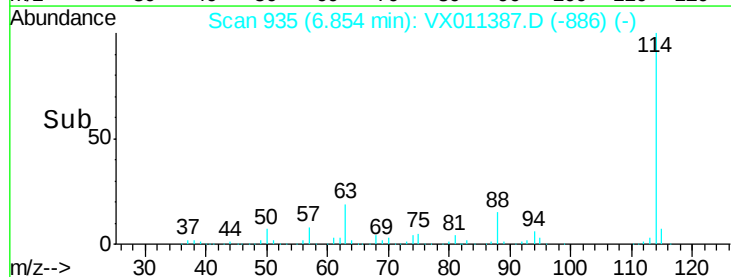
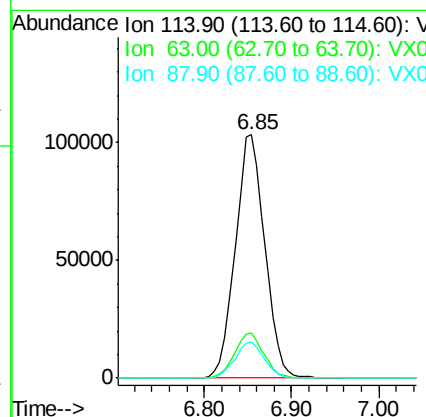
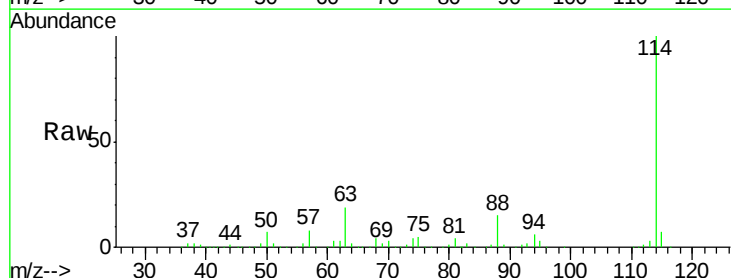
Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 MW-23B\_080719DL

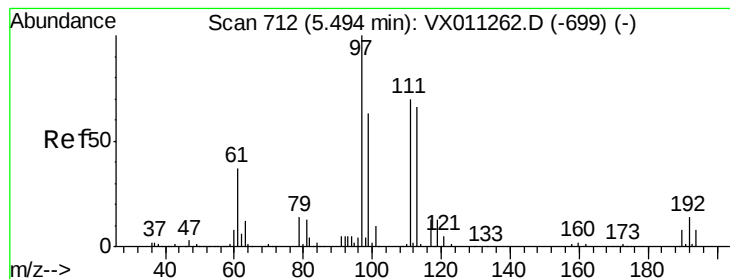
Tot Ion: 65 Resp: 86976  
 Ion Ratio Lower Upper  
 65 100  
 67 52.6 0.0 110.6



#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 6.85 min Scan# 935  
 Delta R.T. 0.00 min  
 Lab File: VX011387.D  
 Acq: 08 Aug 2019 13:18

Tgt Ion: 114 Resp: 242573  
 Ion Ratio Lower Upper  
 114 100  
 63 18.5 0.0 34.0  
 88 15.1 0.0 26.4





#35

Dibromofluoromethane

Concen: 48.688 ug/l

RT: 5.49 min Scan# 712

Delta R.T. 0.00 min

Lab File: VX011387.D

Acq: 08 Aug 2019 13:18

Instrument :

MSVOA\_X

ClientSampleId :

MW-23B\_080719DL

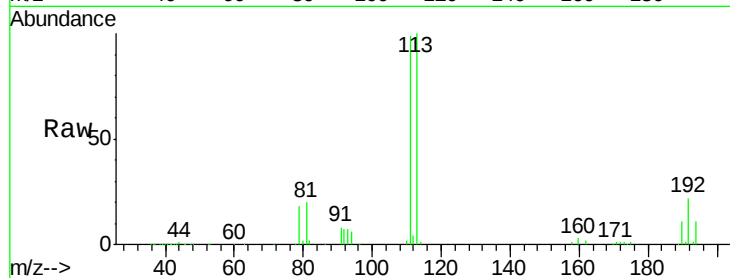
Tot Ion:113 Resp: 77108

Ion Ratio Lower Upper

113 100

111 101.9 81.9 122.9

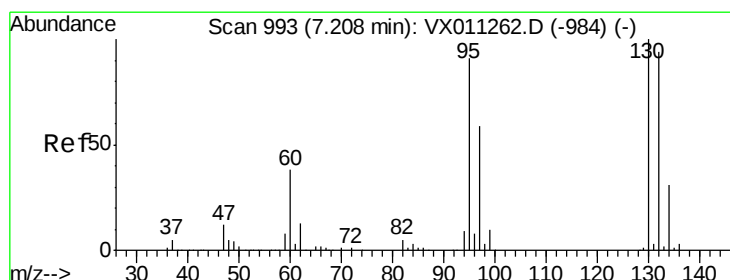
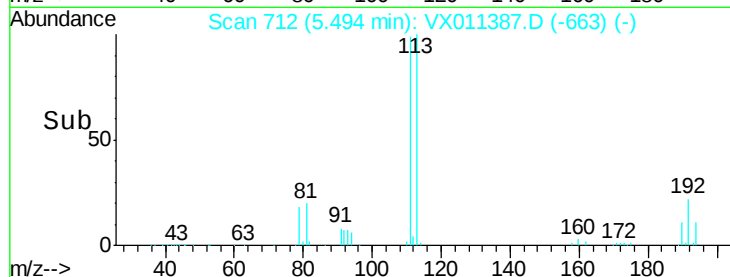
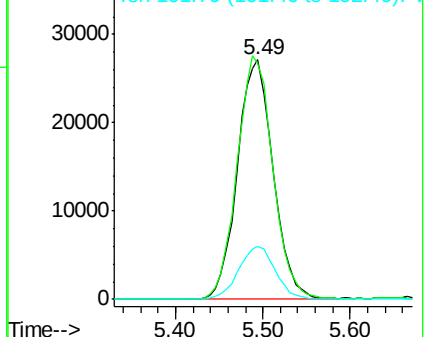
192 22.5 17.8 26.8



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



#44

Trichloroethene

Concen: 1.739 ug/l

RT: 7.21 min Scan# 993

Delta R.T. 0.00 min

Lab File: VX011387.D

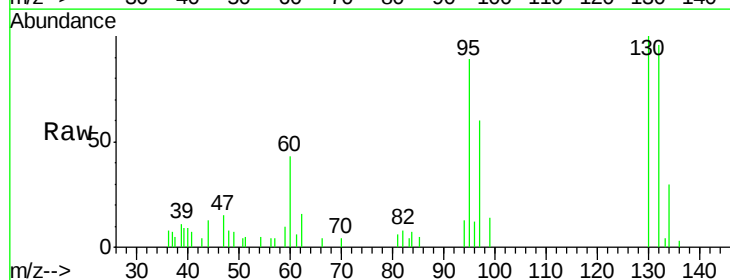
Acq: 08 Aug 2019 13:18

Tgt Ion:130 Resp: 3326

Ion Ratio Lower Upper

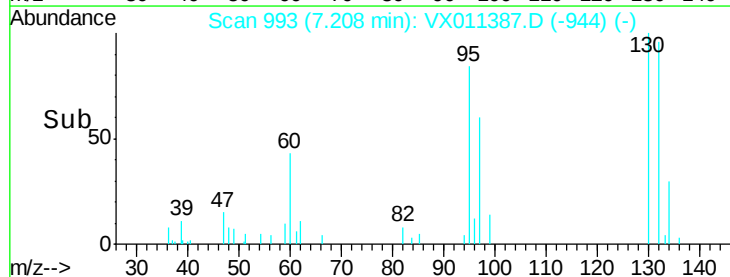
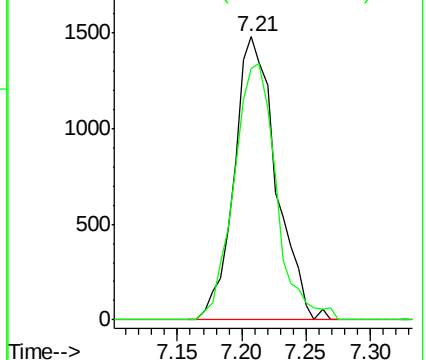
130 100

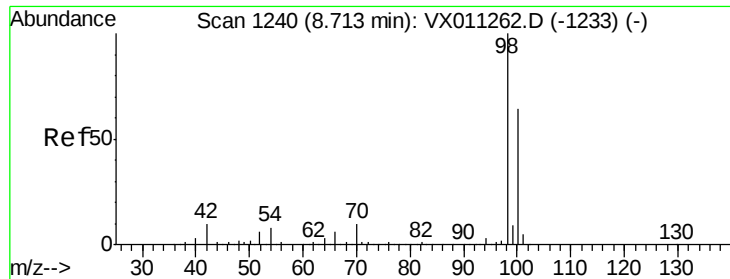
95 88.6 0.0 182.6



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0





#50

Toluene-d8

Concen: 50.007 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. 0.00 min

Lab File: VX011387.D

Acq: 08 Aug 2019 13:18

Instrument :

MSVOA\_X

ClientSampleId :

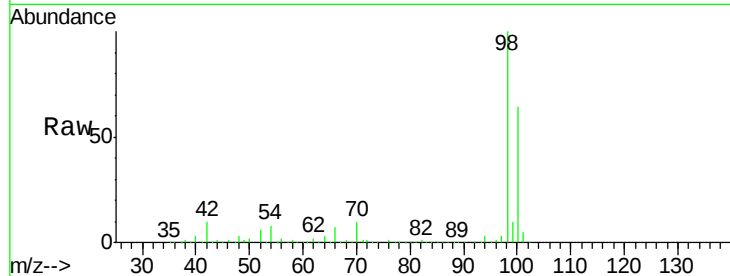
MW-23B\_080719DL

Tot Ion: 98 Resp: 298940

Ion Ratio Lower Upper

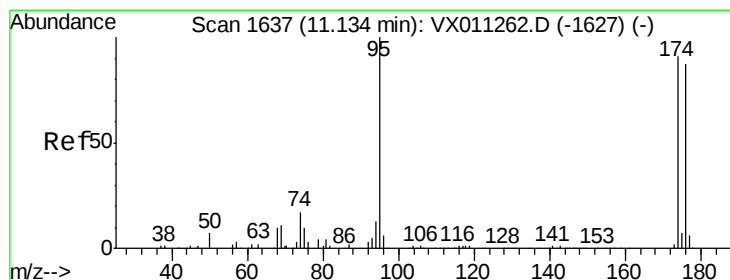
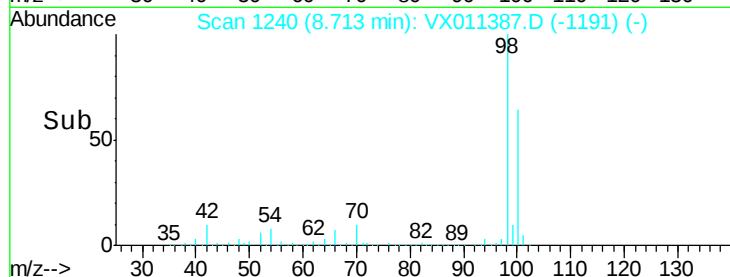
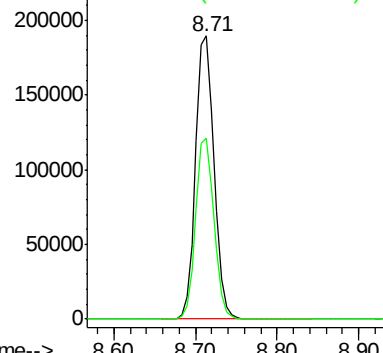
98 100

100 63.4 51.7 77.5



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX



#62

4-Bromofluorobenzene

Concen: 49.921 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.00 min

Lab File: VX011387.D

Acq: 08 Aug 2019 13:18

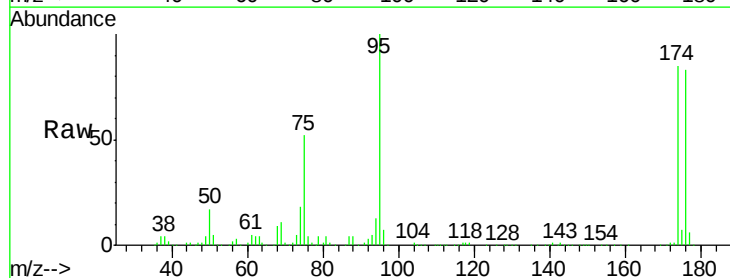
Tgt Ion: 95 Resp: 106548

Ion Ratio Lower Upper

95 100

174 89.7 0.0 191.2

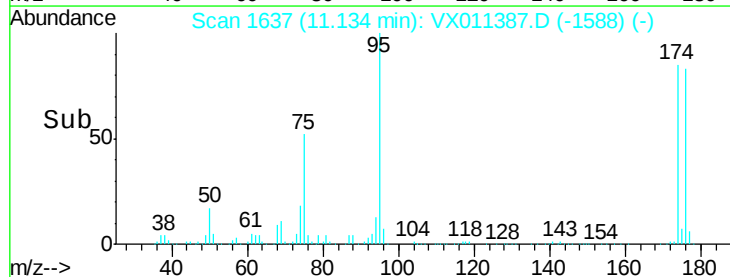
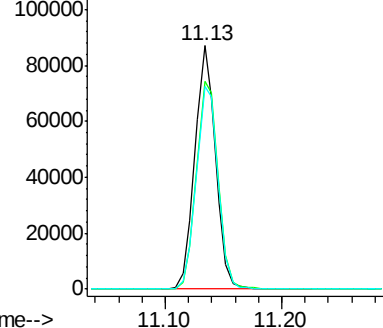
176 87.9 0.0 184.8

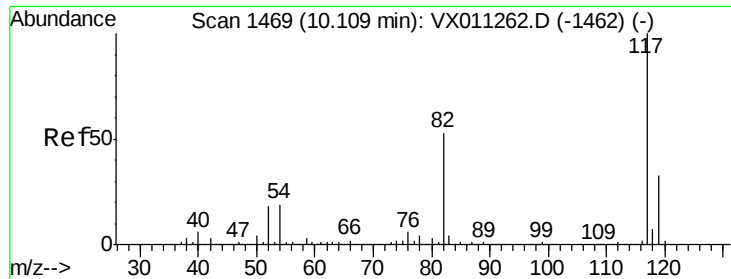


Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

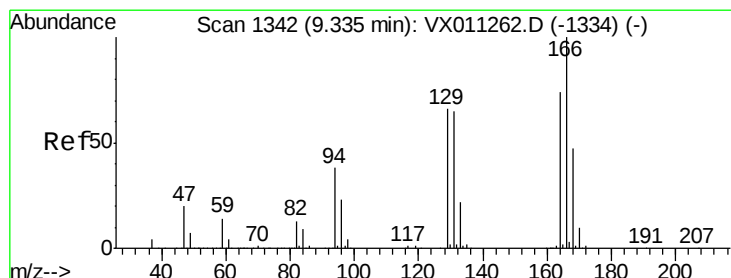
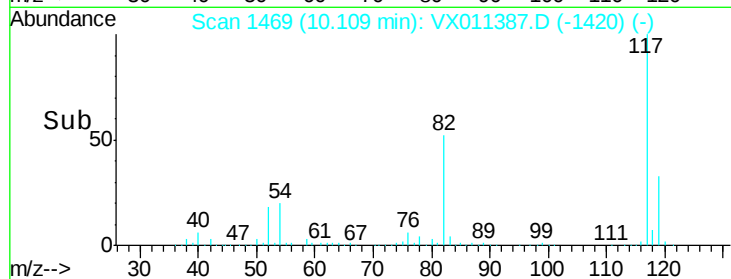
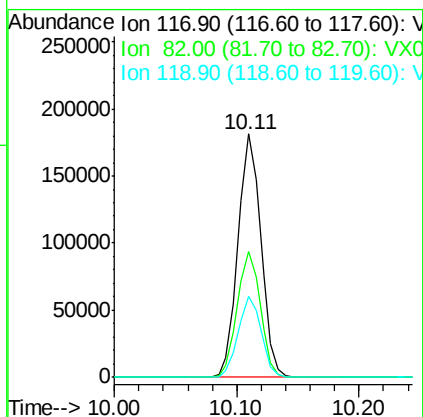
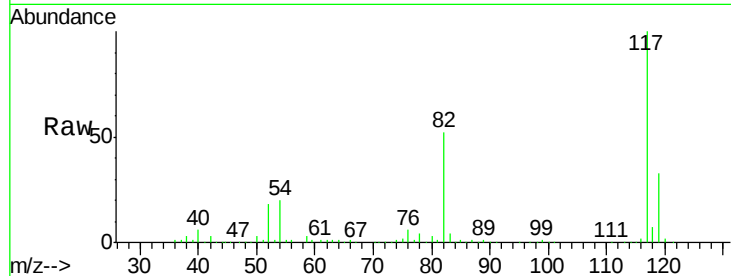




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 10.11 min Scan# 1469  
Delta R.T. 0.00 min  
Lab File: VX011387.D  
Acq: 08 Aug 2019 13:18

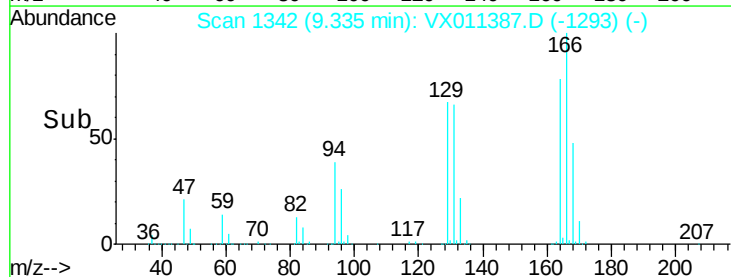
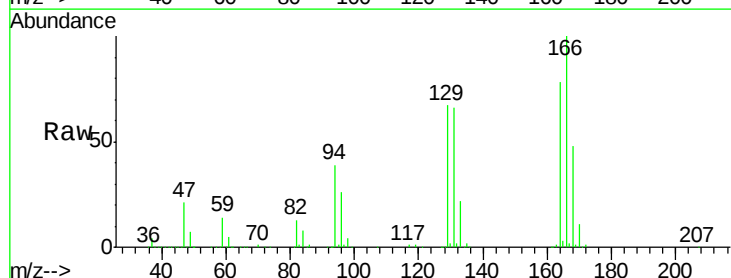
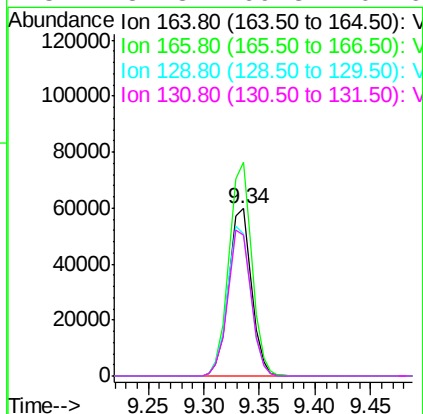
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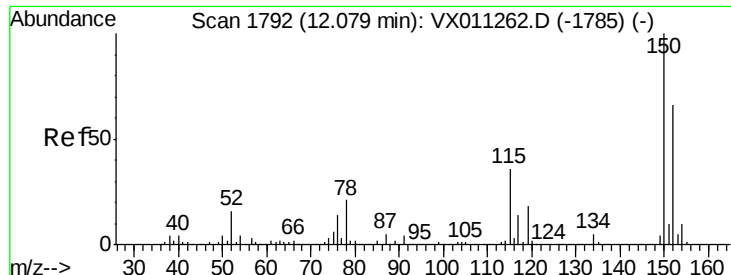
Tot Ion:117 Resp: 235347  
Ion Ratio Lower Upper  
117 100  
82 51.9 42.2 63.2  
119 33.4 26.6 39.8



#64  
Tetrachloroethene  
Concen: 42.564 ug/l  
RT: 9.34 min Scan# 1342  
Delta R.T. 0.00 min  
Lab File: VX011387.D  
Acq: 08 Aug 2019 13:18

Tgt Ion:164 Resp: 85070  
Ion Ratio Lower Upper  
164 100  
166 127.8 107.5 161.3  
129 85.2 71.0 106.4  
131 84.3 69.8 104.6

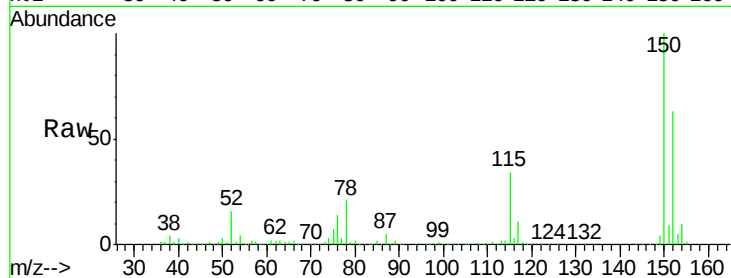




#72  
 1,4-Dichlorobenzene-d4  
 Concen: 50.000 ug/l  
 RT: 12.08 min Scan# 1792  
 Delta R.T. 0.00 min  
 Lab File: VX011387.D  
 Acq: 08 Aug 2019 13:18

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 MW-23B\_080719DL

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 115     | 55.5  | 40.0  | 119.9 |
| 150     | 158.8 | 0.0   | 350.4 |



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

