

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA X\DATA\VX052219\  
 Data File : VX009842.D  
 Acq On : 23 May 2019 07:08  
 Operator : JC/SP  
 Sample : K2977-06 50X  
 Misc : 5.94g/5mL/100uL/5.00mL/MSVOA\_X/MEOH  
 ALS Vial : 54 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 EP1-W-5R(17-20)

Quant Time: May 23 09:15:18 2019  
 Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_X\METHOD\82X042919W.M  
 Quant Title : SW846 8260  
 QLast Update : Thu May 09 07:31:15 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.67  | 168  | 182078   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.86  | 114  | 298125   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.11 | 117  | 279994   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.08 | 152  | 138504   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds |        |     |          |       |         |      |
|-----------------------------|--------|-----|----------|-------|---------|------|
| 33) 1,2-Dichloroethane-d4   | 6.06   | 65  | 127270   | 51.20 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 102.40% |      |
| 35) Dibromofluoromethane    | 5.49   | 113 | 90130    | 48.09 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 96.18%  |      |
| 50) Toluene-d8              | 8.71   | 98  | 382321   | 50.53 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 101.06% |      |
| 62) 4-Bromofluorobenzene    | 11.13  | 95  | 141900   | 51.61 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 103.22% |      |

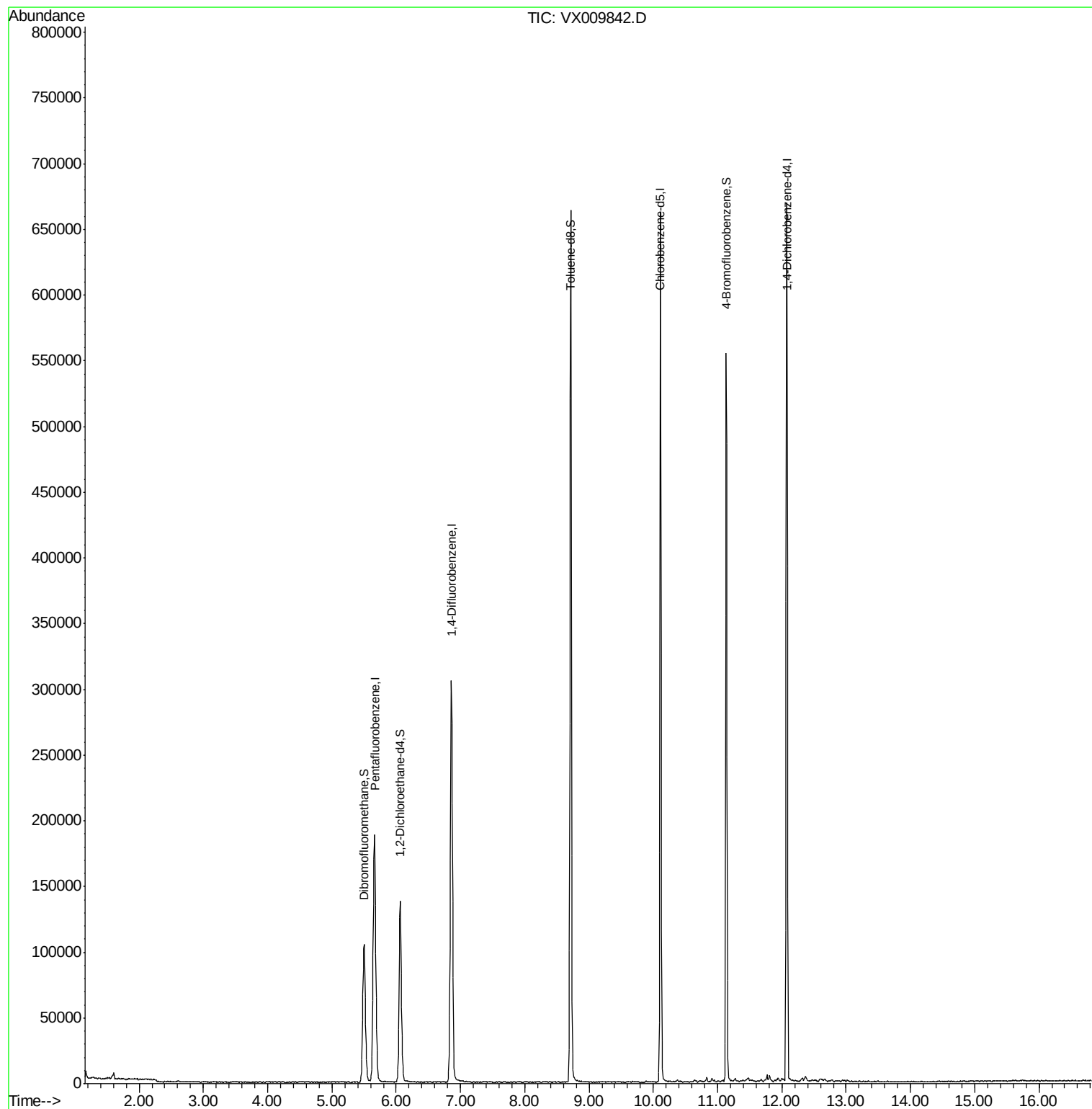
| Target Compounds | Qvalue |
|------------------|--------|
| -----            |        |

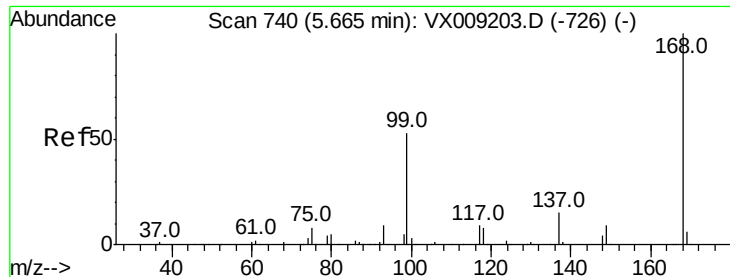
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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MSVOA\_X  
ClientSampleId :  
EP1-W-5R(17-20)

Quant Time: May 23 09:15:18 2019  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_X\METHOD\82X042919W.M  
Quant Title : SW846 8260  
QLast Update : Thu May 09 07:31:15 2019  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 740

Delta R.T. 0.00 min

Lab File: VX009842.D

Acq: 23 May 2019 07:08

Instrument :

MSVOA\_X

ClientSampleId :

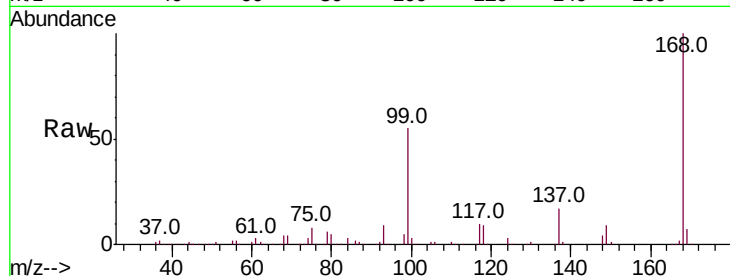
EP1-W-5R(17-20)

Tot Ion:168 Resp: 182078

Ion Ratio Lower Upper

168 100

99 55.4 42.3 63.5



Abundance Ion 167.90 (167.60 to 168.60): VX009203.D (-726) (-)

Ion 98.90 (98.60 to 99.60): VX009203.D (-726) (-)

5.67

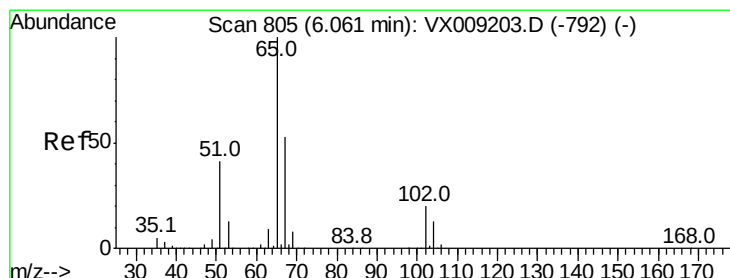
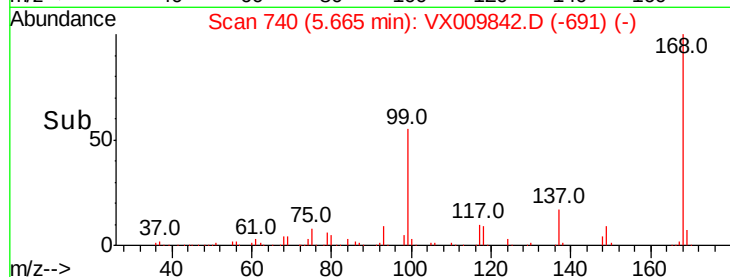
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#33

1,2-Dichloroethane-d4

Concen: 51.203 ug/l

RT: 6.06 min Scan# 805

Delta R.T. 0.00 min

Lab File: VX009842.D

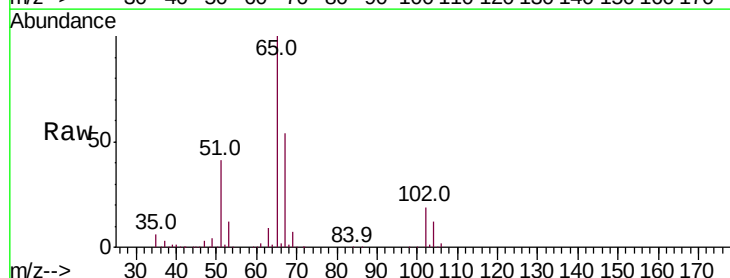
Acq: 23 May 2019 07:08

Tgt Ion: 65 Resp: 127270

Ion Ratio Lower Upper

65 100

67 52.9 0.0 106.6



Abundance Ion 64.90 (64.60 to 65.60): VX009203.D (-792) (-)

Ion 66.90 (66.60 to 67.60): VX009203.D (-792) (-)

6.06

50000

40000

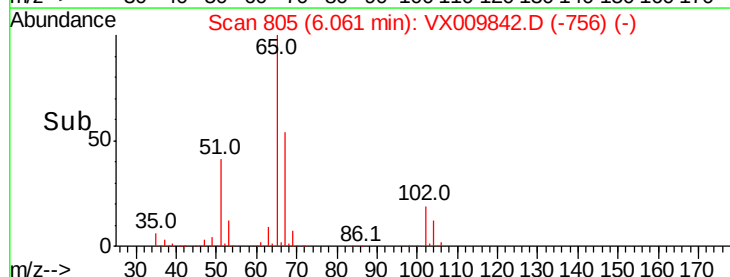
30000

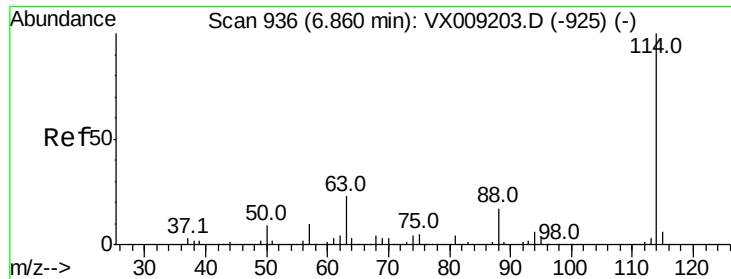
20000

10000

0

Time--> 5.90 6.00 6.10 6.20

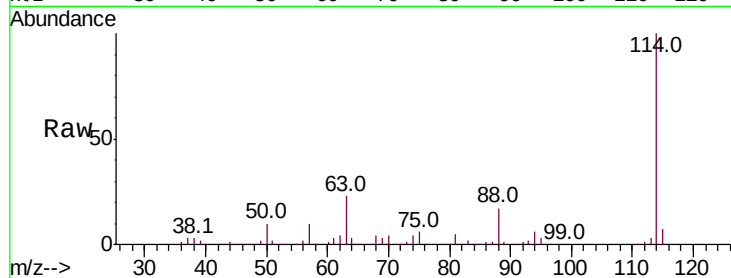




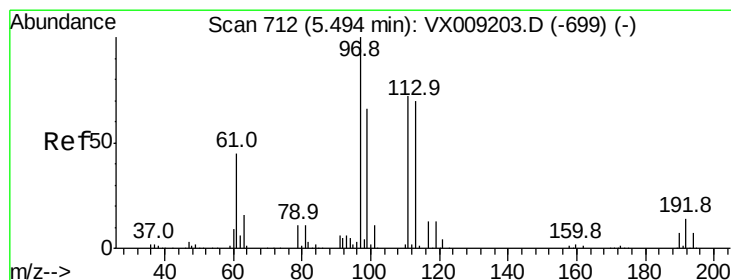
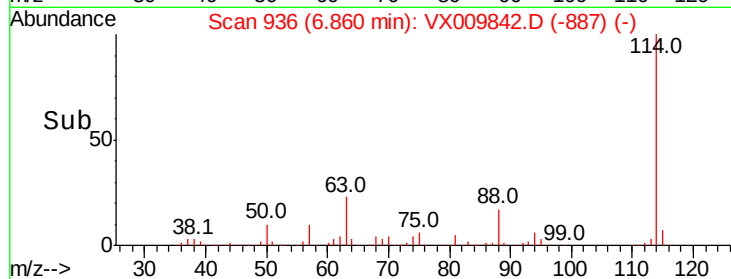
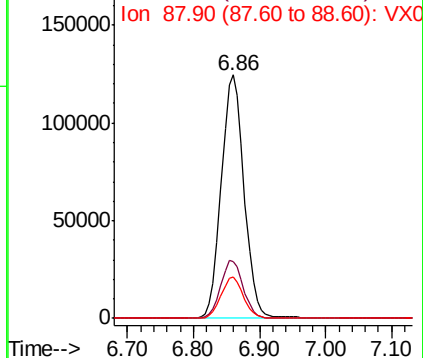
#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 6.86 min Scan# 936  
 Delta R.T. 0.00 min  
 Lab File: VX009842.D  
 Acq: 23 May 2019 07:08

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 EP1-W-5R(17-20)

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 114     | 100   |       |       |
| 63      | 23.4  | 0.0   | 45.6  |
| 88      | 17.0  | 0.0   | 33.2  |

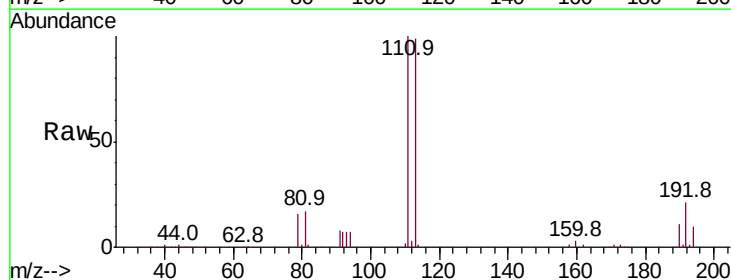


Abundance Ion 113.90 (113.60 to 114.60): V  
 Ion 63.00 (62.70 to 63.70): VX0  
 Ion 87.90 (87.60 to 88.60): VX0

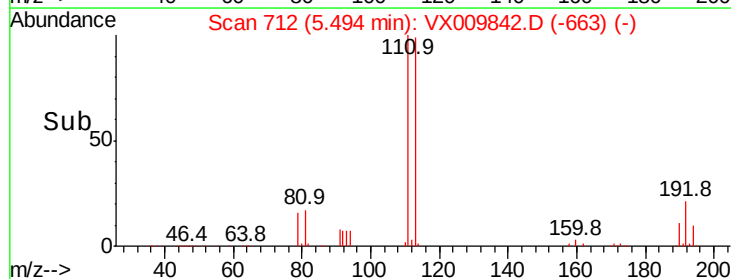
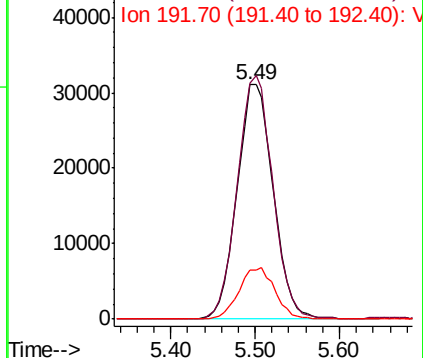


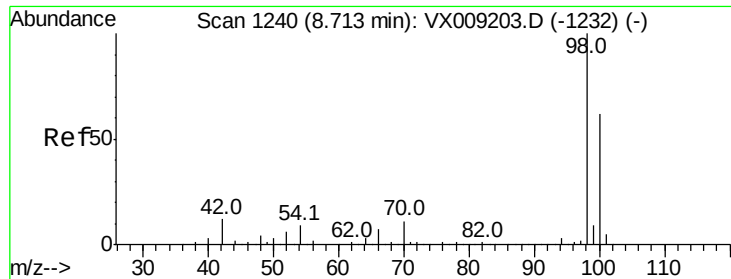
#35  
 Dibromofluoromethane  
 Concen: 48.092 ug/l  
 RT: 5.49 min Scan# 712  
 Delta R.T. 0.00 min  
 Lab File: VX009842.D  
 Acq: 23 May 2019 07:08

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 113     | 100   |       |       |
| 111     | 102.2 | 82.8  | 124.2 |
| 192     | 21.9  | 17.0  | 25.6  |



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





#50

Toluene-d8

Concen: 50.529 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. 0.00 min

Lab File: VX009842.D

Acq: 23 May 2019 07:08

Instrument :

MSVOA\_X

ClientSampleId :

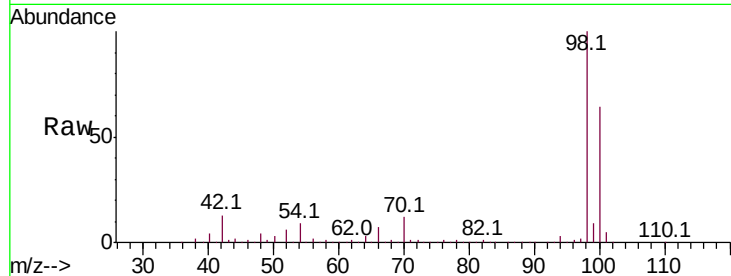
EP1-W-5R(17-20)

Tot Ion: 98 Resp: 382321

Ion Ratio Lower Upper

98 100

100 64.2 51.2 76.8



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V>

250000

200000

150000

100000

50000

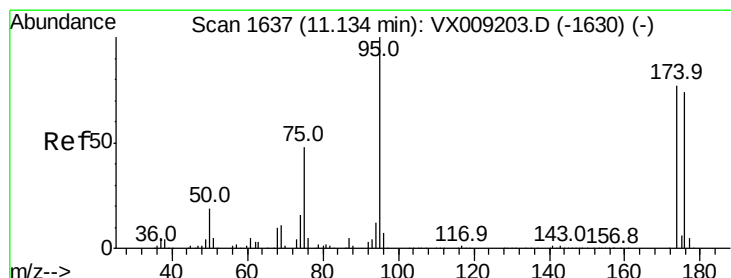
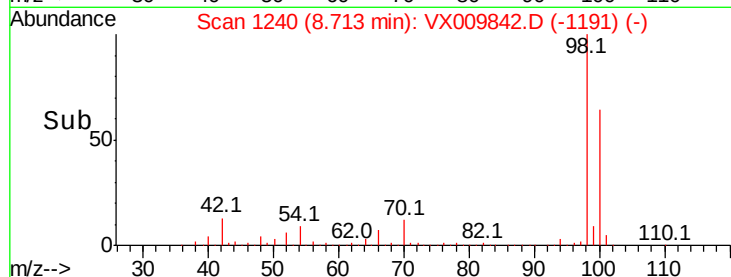
0

8.60

8.70

8.80

Time-->



#62

4-Bromofluorobenzene

Concen: 51.613 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.00 min

Lab File: VX009842.D

Acq: 23 May 2019 07:08

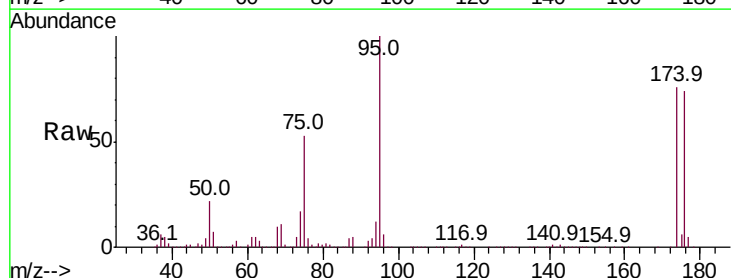
Tgt Ion: 95 Resp: 141900

Ion Ratio Lower Upper

95 100

174 80.1 0.0 161.6

176 78.3 0.0 159.2



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

150000

100000

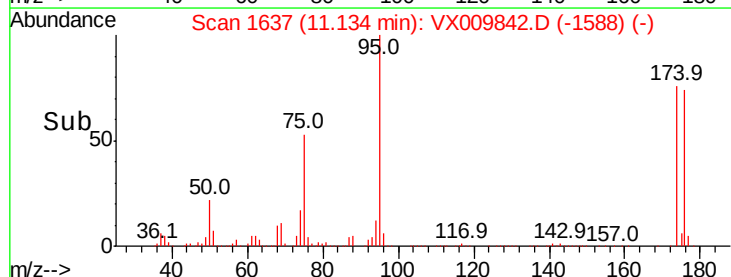
50000

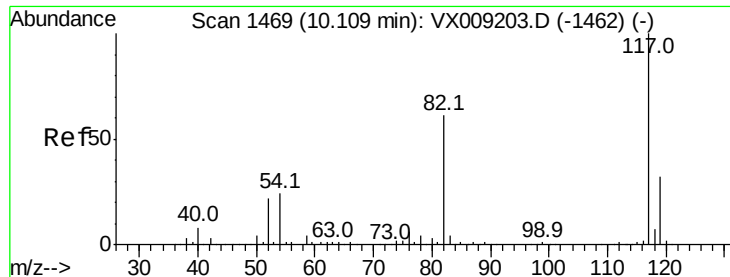
0

11.10

11.20

Time-->

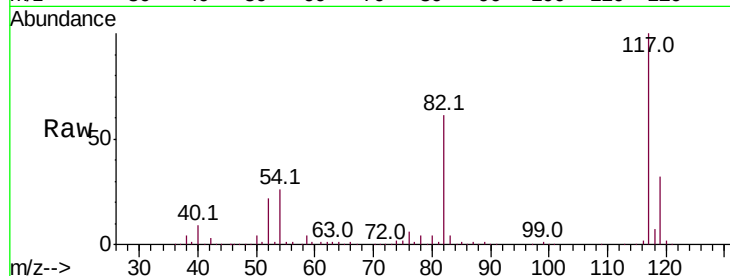




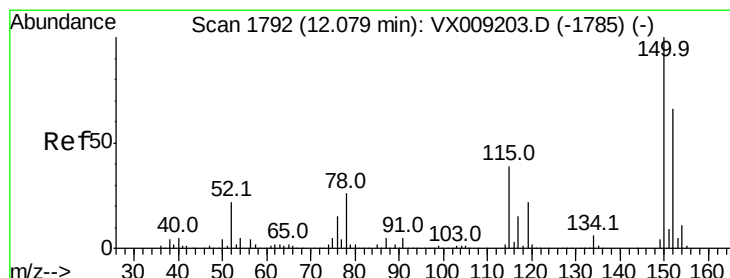
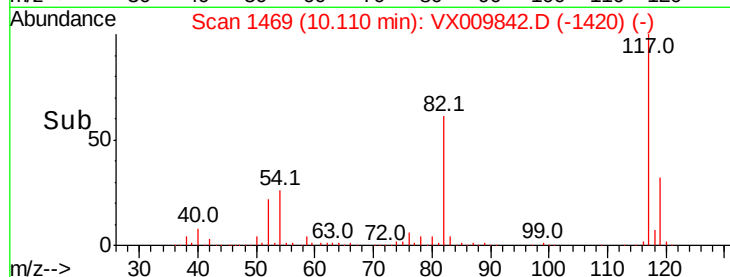
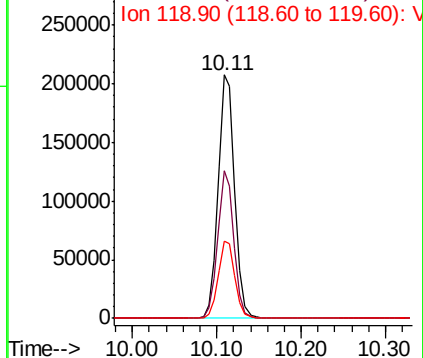
#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 10.11 min Scan# 1469  
Delta R.T. 0.00 min  
Lab File: VX009842.D  
Acq: 23 May 2019 07:08

Instrument :  
MSVOA\_X  
ClientSampleId :  
EP1-W-5R(17-20)

Tot Ion:117 Resp: 279994  
Ion Ratio Lower Upper  
117 100  
82 60.5 48.8 73.2  
119 31.7 25.8 38.6

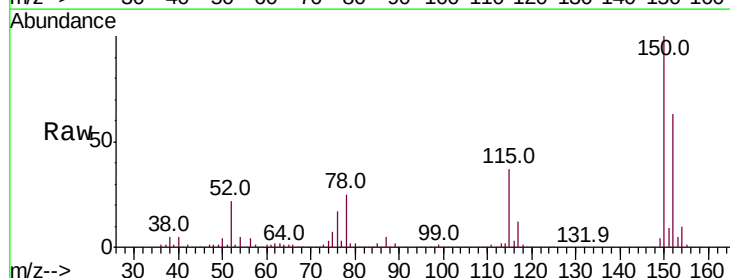


Abundance Ion 116.90 (116.60 to 117.60): V  
Ion 82.00 (81.70 to 82.70): VX0  
Ion 118.90 (118.60 to 119.60): V



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 12.08 min Scan# 1792  
Delta R.T. 0.00 min  
Lab File: VX009842.D  
Acq: 23 May 2019 07:08

Tgt Ion:152 Resp: 138504  
Ion Ratio Lower Upper  
152 100  
115 58.9 41.2 123.6  
150 158.2 0.0 346.4



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

