

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_Y\DATA\VY111519\  
 Data File : VY000714.D  
 Acq On : 15 Nov 2019 20:02  
 Operator : SY/MD  
 Sample : K5861-06  
 Misc : 5.40G/5ML/MSVOA\_Y/SOIL  
 ALS Vial : 27 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 EP-6

Quant Time: Nov 16 03:31:37 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_Y\METHODS\82Y103019S.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Oct 30 13:30:53 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.80  | 168  | 157320   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.70  | 114  | 284442   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.49 | 117  | 263287   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.42 | 152  | 125360   | 50.00 | ug/l  | 0.00     |

|                             |        |     |          |       |         |      |
|-----------------------------|--------|-----|----------|-------|---------|------|
| System Monitoring Compounds |        |     |          |       |         |      |
| 33) 1,2-Dichloroethane-d4   | 8.15   | 65  | 100929   | 61.99 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 123.98% |      |
| 35) Dibromofluoromethane    | 7.73   | 113 | 84054    | 50.34 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 100.68% |      |
| 50) Toluene-d8              | 10.18  | 98  | 329978   | 52.08 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 104.16% |      |
| 62) 4-Bromofluorobenzene    | 12.48  | 95  | 116648   | 48.36 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 96.72%  |      |

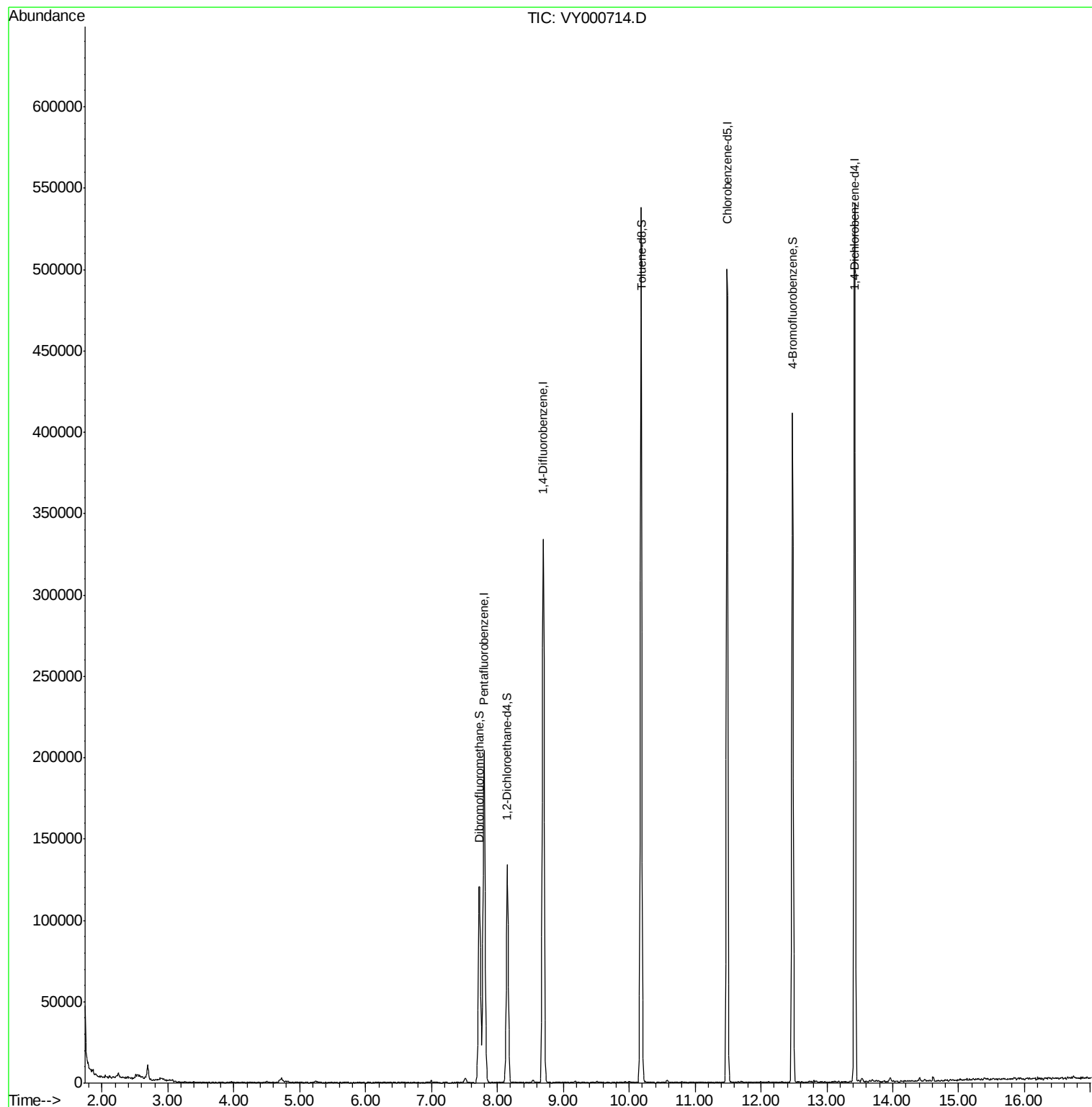
| Target Compounds | Qvalue |
|------------------|--------|
|------------------|--------|

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

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Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.80 min Scan# 994

Delta R.T. -0.01 min

Lab File: VY000714.D

Acq: 15 Nov 2019 20:02

Instrument :

MSVOA\_Y

ClientSampled :

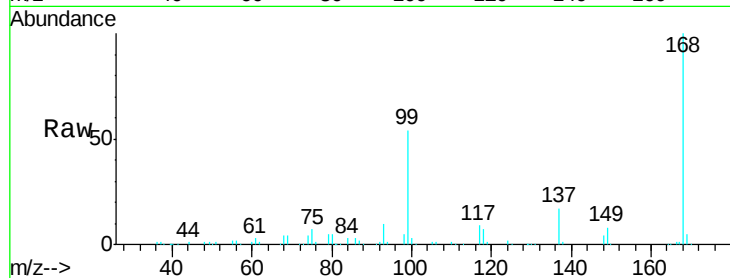
EP-6

Tgt Ion: 168 Resp: 157320

Ion Ratio Lower Upper

168 100

99 54.3 45.7 68.5



Abundance Ion 167.90 (167.60 to 168.60): VY000486.D (-985) (-)

Ion 98.90 (98.60 to 99.60): VY000486.D (-985) (-)

7.80

60000

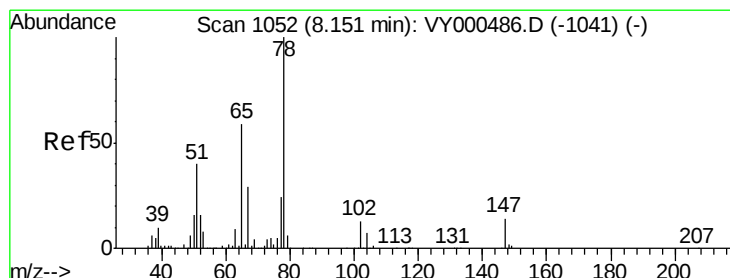
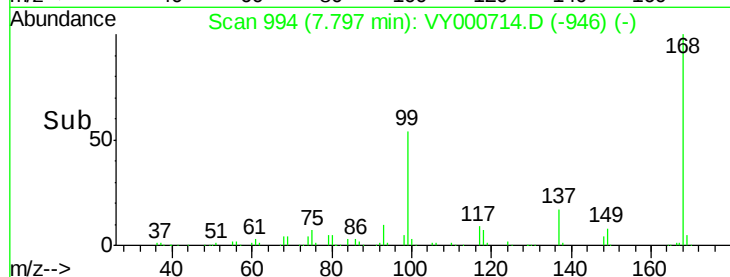
40000

20000

0

7.70 7.80 7.90

Time-->



#33

1,2-Dichloroethane-d4

Concen: 61.994 ug/l

RT: 8.15 min Scan# 1052

Delta R.T. -0.00 min

Lab File: VY000714.D

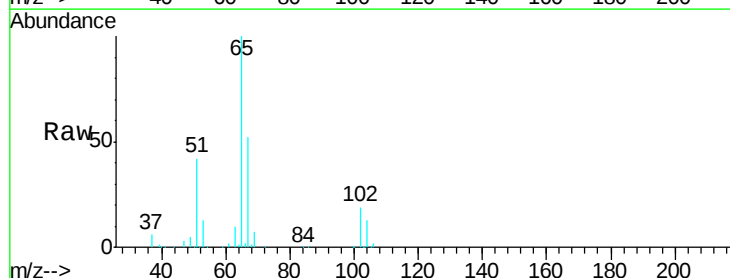
Acq: 15 Nov 2019 20:02

Tgt Ion: 65 Resp: 100929

Ion Ratio Lower Upper

65 100

67 50.9 0.0 107.2



Abundance Ion 64.90 (64.60 to 65.60): VY000486.D (-1041) (-)

Ion 66.90 (66.60 to 67.60): VY000486.D (-1041) (-)

8.15

50000

40000

30000

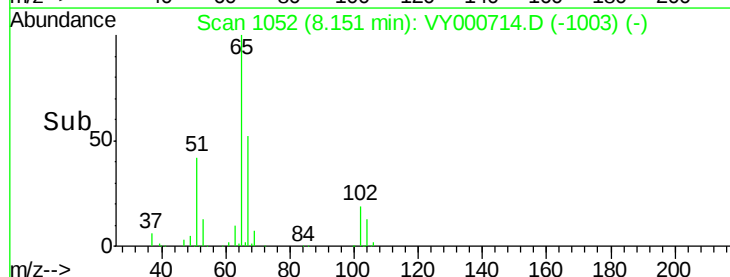
20000

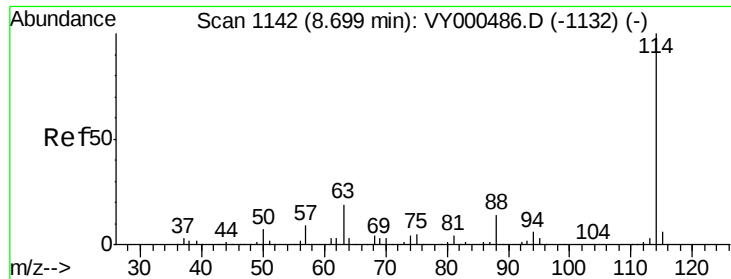
10000

0

8.10 8.20

Time-->

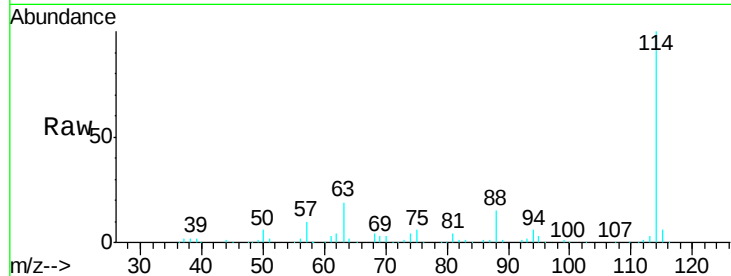




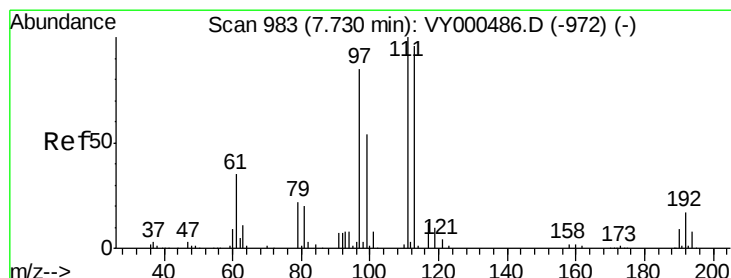
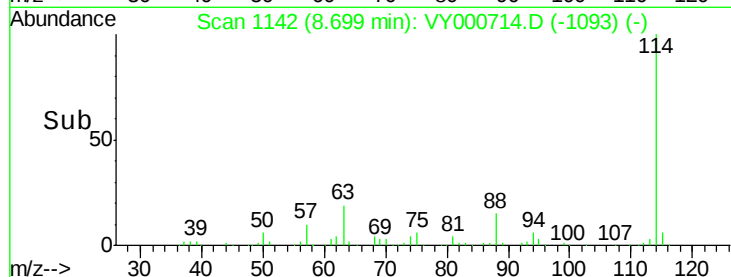
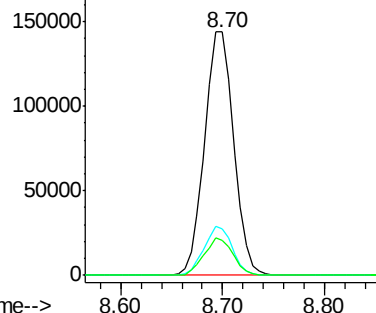
#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.70 min Scan# 1142  
 Delta R.T. -0.00 min  
 Lab File: VY000714.D  
 Acq: 15 Nov 2019 20:02

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 EP-6

Tgt Ion:114 Resp: 284442  
 Ion Ratio Lower Upper  
 114 100  
 63 19.0 0.0 38.0  
 88 14.5 0.0 28.6

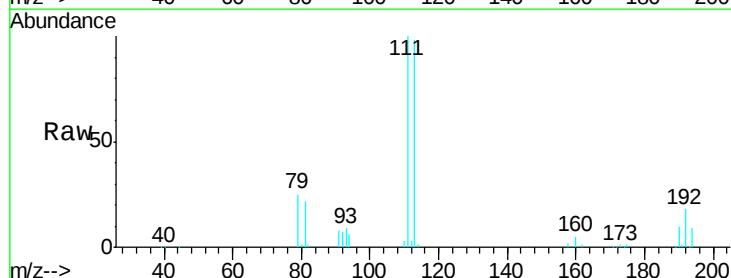


Abundance Ion 113.90 (113.60 to 114.60): V  
 Ion 63.00 (62.70 to 63.70): VY0  
 Ion 87.90 (87.60 to 88.60): VY0

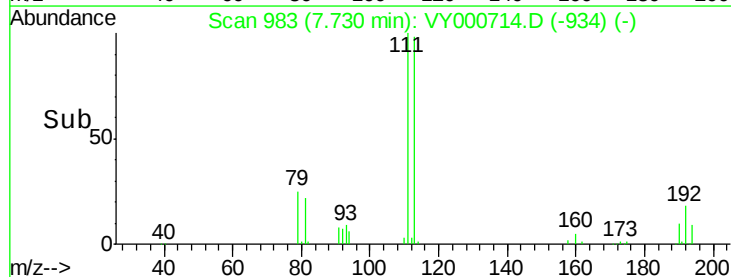
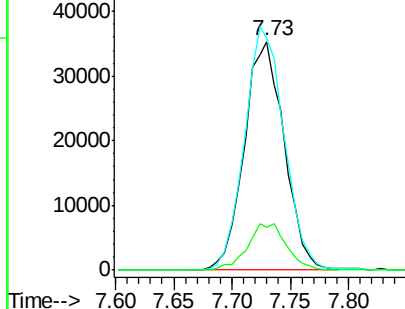


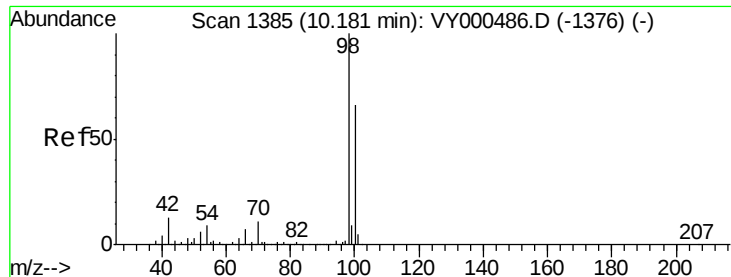
#35  
 Dibromofluoromethane  
 Concen: 50.336 ug/l  
 RT: 7.73 min Scan# 983  
 Delta R.T. -0.00 min  
 Lab File: VY000714.D  
 Acq: 15 Nov 2019 20:02

Tgt Ion:113 Resp: 84054  
 Ion Ratio Lower Upper  
 113 100  
 111 105.6 81.7 122.5  
 192 19.7 15.0 22.4



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





#50

Toluene-d8

Concen: 52.078 ug/l

RT: 10.18 min Scan# 1385

Delta R.T. -0.00 min

Lab File: VY000714.D

Acq: 15 Nov 2019 20:02

Instrument :

MSVOA\_Y

ClientSampled :

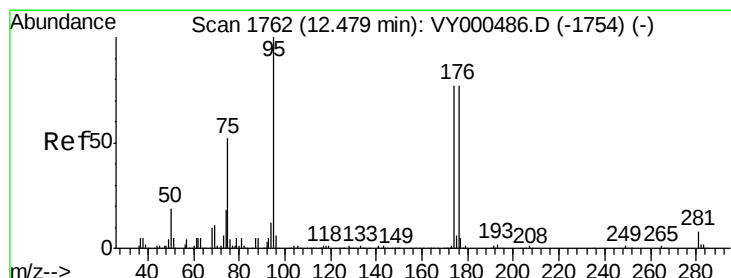
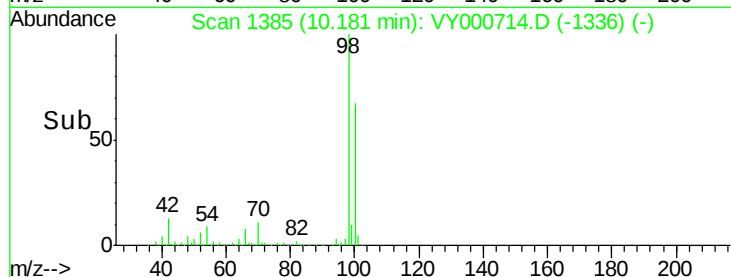
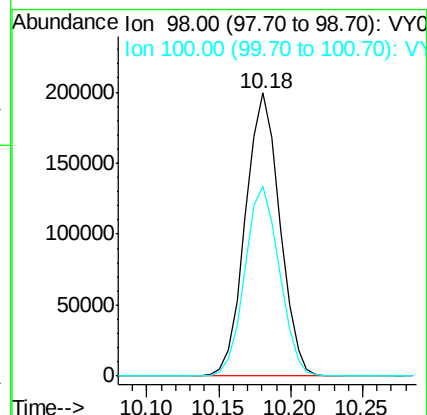
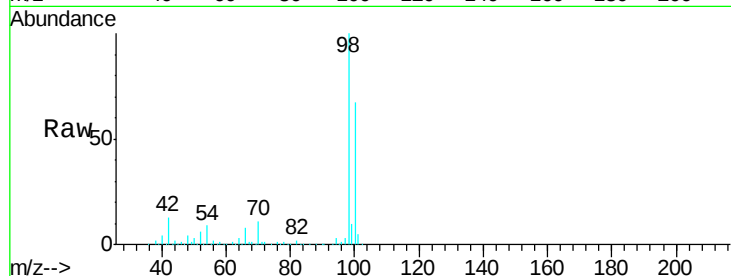
EP-6

Tgt Ion: 98 Resp: 329978

Ion Ratio Lower Upper

98 100

100 67.4 52.9 79.3



#62

4-Bromofluorobenzene

Concen: 48.358 ug/l

RT: 12.48 min Scan# 1762

Delta R.T. -0.00 min

Lab File: VY000714.D

Acq: 15 Nov 2019 20:02

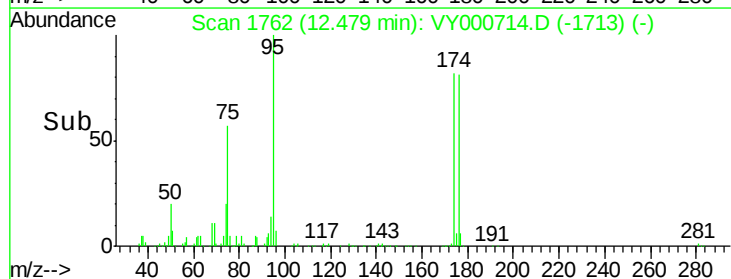
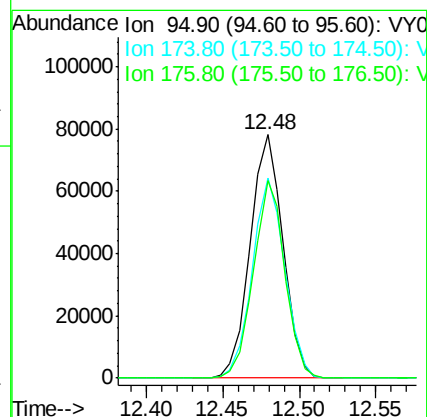
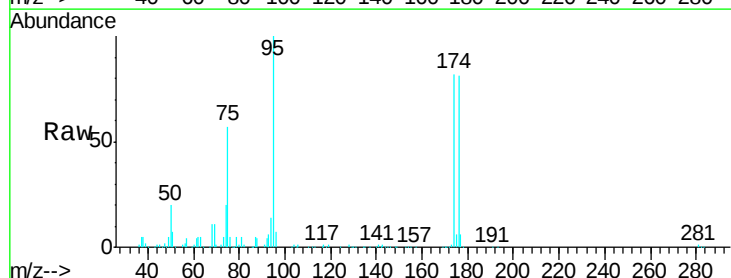
Tgt Ion: 95 Resp: 116648

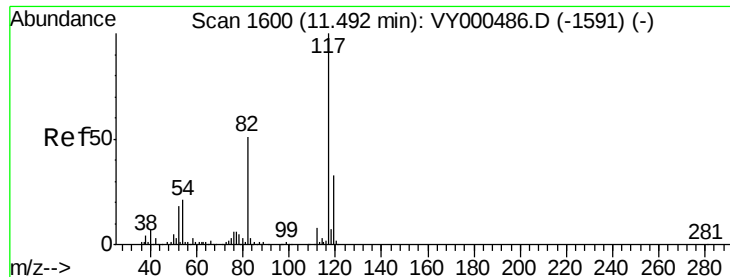
Ion Ratio Lower Upper

95 100

174 81.7 0.0 161.6

176 77.5 0.0 157.8

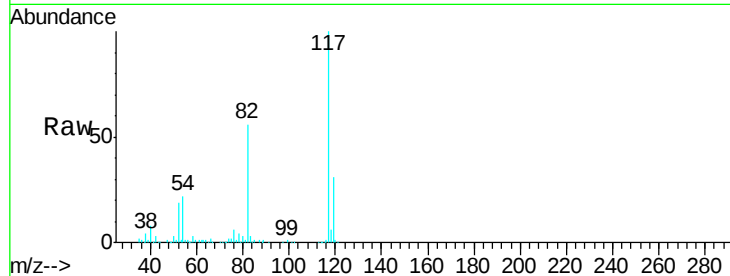




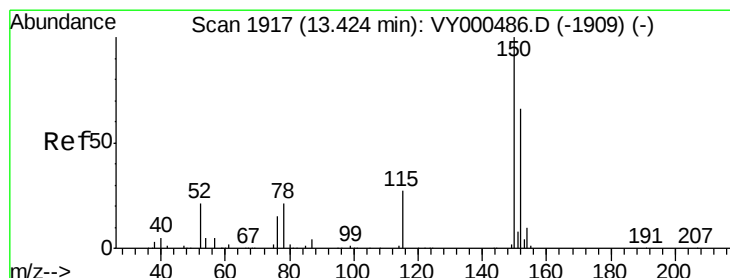
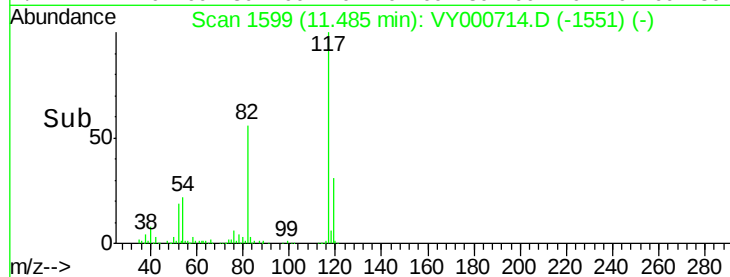
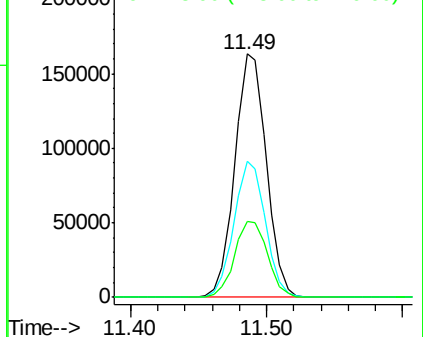
#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.49 min Scan# 1599  
Delta R.T. -0.01 min  
Lab File: VY000714.D  
Acq: 15 Nov 2019 20:02

Instrument :  
MSVOA\_Y  
ClientSampled :  
EP-6

Tgt Ion:117 Resp: 263287  
Ion Ratio Lower Upper  
117 100  
82 55.8 40.8 61.2  
119 31.3 26.2 39.2

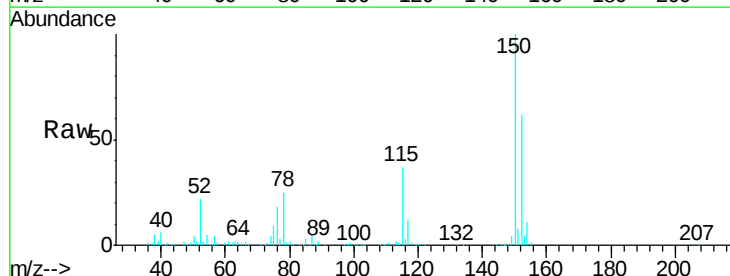


Abundance Ion 116.90 (116.60 to 117.60): V  
Ion 82.00 (81.70 to 82.70): VY0  
Ion 118.90 (118.60 to 119.60): V



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.42 min Scan# 1917  
Delta R.T. -0.00 min  
Lab File: VY000714.D  
Acq: 15 Nov 2019 20:02

Tgt Ion:152 Resp: 125360  
Ion Ratio Lower Upper  
152 100  
115 60.3 29.1 87.4  
150 157.8 0.0 348.8



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

