

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD080219\  
 Data File : VD063315.D  
 Acq On : 2 Aug 2019 14:34  
 Operator : VA/AP  
 Sample : K4120-07  
 Misc : 4.58g/5ml/MSVOA D/SOIL  
 ALS Vial : 10 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 T3-1

Quant Time: Aug 04 04:15:19 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D072919S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Jul 30 03:04:50 2019  
 Response via : Initial Calibration

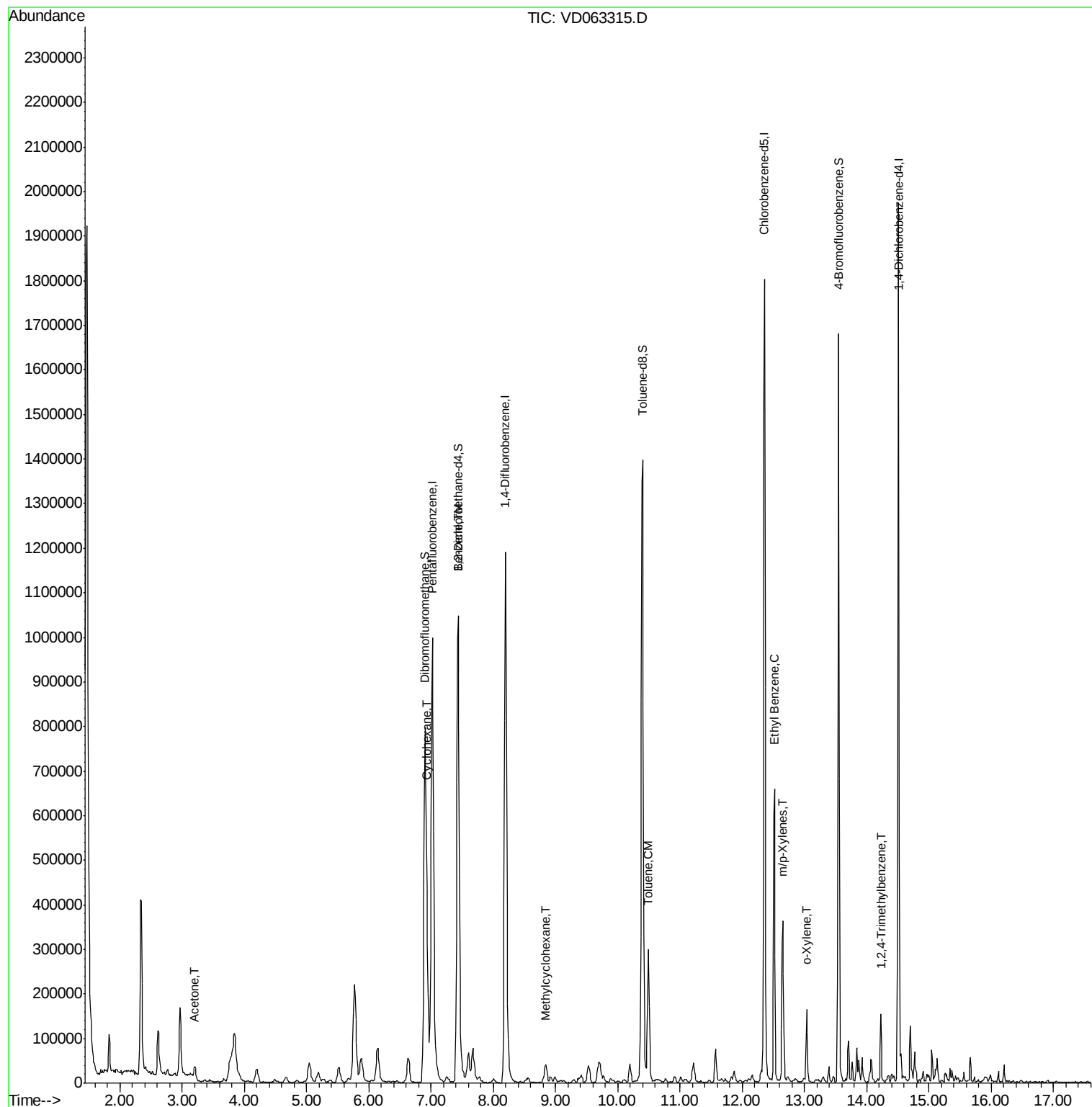
| Internal Standards          | R.T.  | QIon | Response | Conc   | Units   | Dev(Min) |
|-----------------------------|-------|------|----------|--------|---------|----------|
| 1) Pentafluorobenzene       | 7.02  | 168  | 977008   | 50.00  | ug/l    | -0.01    |
| 34) 1,4-Difluorobenzene     | 8.19  | 114  | 1348551  | 50.00  | ug/l    | -0.01    |
| 63) Chlorobenzene-d5        | 12.36 | 117  | 1005909  | 50.00  | ug/l    | 0.00     |
| 72) 1,4-Dichlorobenzene-d4  | 14.51 | 152  | 436937   | 50.00  | ug/l    | 0.00     |
| System Monitoring Compounds |       |      |          |        |         |          |
| 33) 1,2-Dichloroethane-d4   | 7.43  | 65   | 478710   | 44.16  | ug/l    | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =      | 88.32%  |          |
| 35) Dibromofluoromethane    | 6.90  | 113  | 594341   | 51.62  | ug/l    | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =      | 103.24% |          |
| 50) Toluene-d8              | 10.40 | 98   | 1171195  | 45.45  | ug/l    | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =      | 90.90%  |          |
| 62) 4-Bromofluorobenzene    | 13.55 | 95   | 458520   | 39.05  | ug/l    | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =      | 78.10%  |          |
| Target Compounds            |       |      |          |        |         |          |
|                             |       |      |          |        | Qvalue  |          |
| 16) Acetone                 | 3.20  | 43   | 69336    | 32.826 | ug/l    | 97       |
| 31) Cyclohexane             | 6.93  | 56   | 168787   | 17.479 | ug/l    | 90       |
| 39) Methylcyclohexane       | 8.84  | 83   | 20652    | 2.014  | ug/l #  | 93       |
| 40) Benzene                 | 7.43  | 78   | 737507   | 28.593 | ug/l    | 94       |
| 52) Toluene                 | 10.50 | 92   | 148428   | 8.652  | ug/l    | 89       |
| 67) Ethyl Benzene           | 12.51 | 91   | 461999   | 14.056 | ug/l    | 97       |
| 68) m/p-Xylenes             | 12.65 | 106  | 102917   | 8.538  | ug/l    | 92       |
| 69) o-Xylene                | 13.04 | 106  | 32817    | 2.965  | ug/l    | 89       |
| 84) 1,2,4-Trimethylbenzene  | 14.23 | 105  | 59595    | 2.436  | ug/l    | 98       |

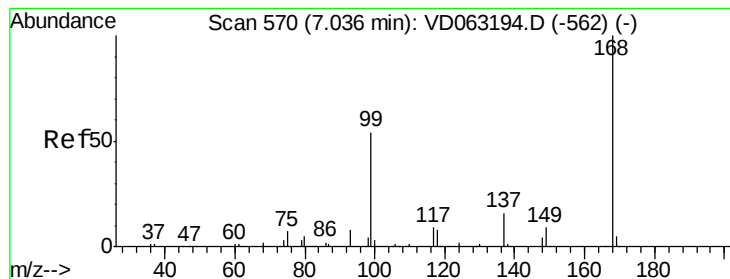
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA D\DATA\VD080219\  
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MSVOA\_D  
ClientSampleId :  
T3-1

Quant Time: Aug 04 04:15:19 2019  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_D\METHOD\82D072919S.M  
Quant Title : SW846 8260  
QLast Update : Tue Jul 30 03:04:50 2019  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.02 min Scan# 568

Delta R.T. -0.01 min

Lab File: VD063315.D

Acq: 2 Aug 2019 14:34

Instrument :

MSVOA\_D

ClientSampleId :

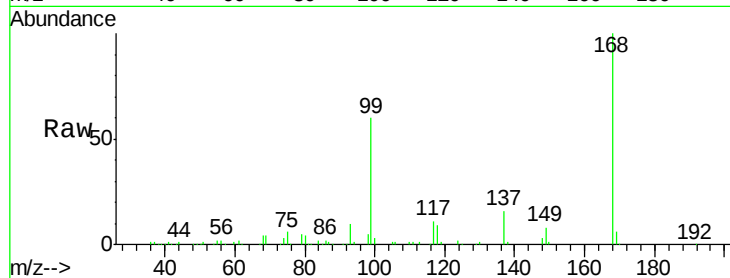
T3-1

Tot Ion:168 Resp: 977008

Ion Ratio Lower Upper

168 100

99 59.9 43.7 65.5



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC

7.02

400000

300000

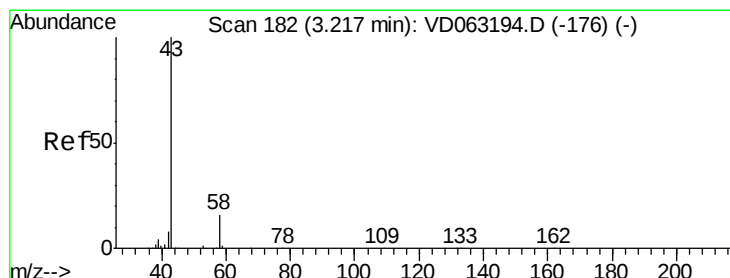
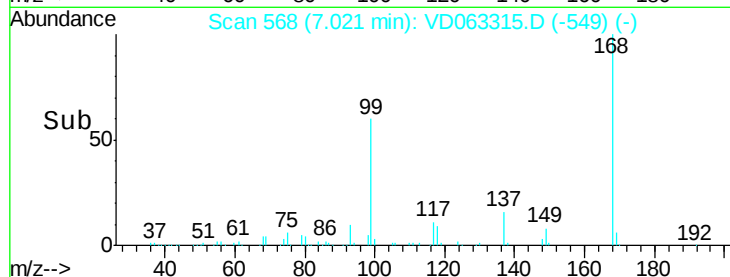
200000

100000

0

6.90 7.00 7.10 7.20

Time-->



#16

Acetone

Concen: 32.826 ug/l

RT: 3.20 min Scan# 180

Delta R.T. -0.01 min

Lab File: VD063315.D

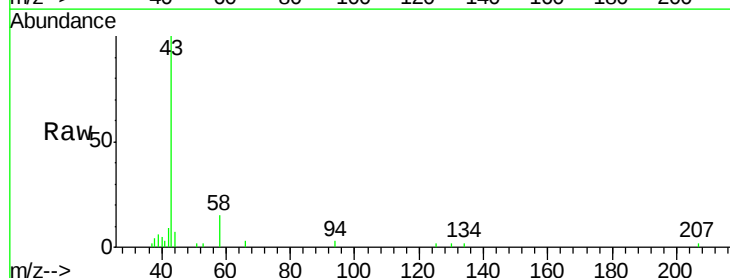
Acq: 2 Aug 2019 14:34

Tgt Ion: 43 Resp: 69336

Ion Ratio Lower Upper

43 100

58 14.9 13.0 19.4



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC

3.20

25000

20000

15000

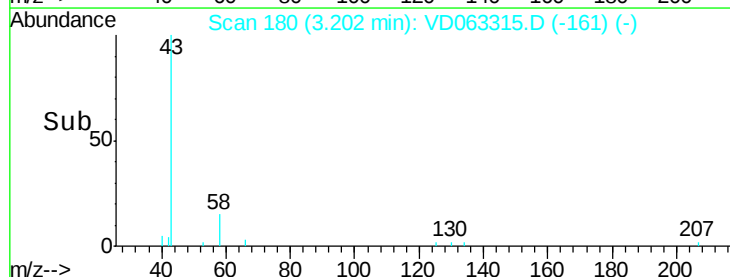
10000

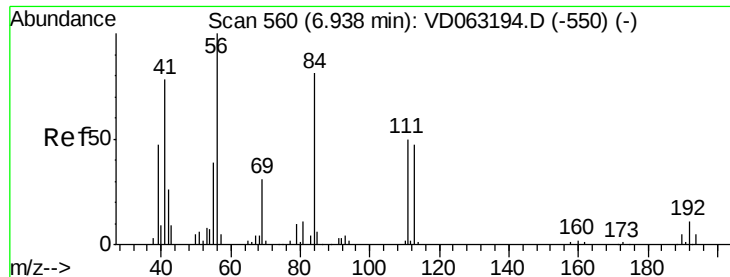
5000

0

3.10 3.20 3.30

Time-->

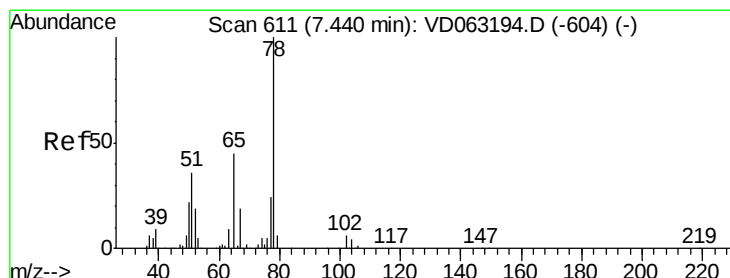
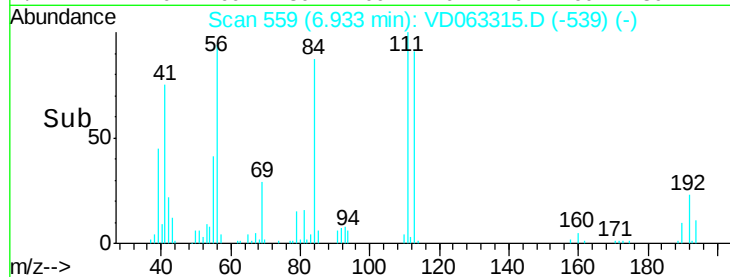
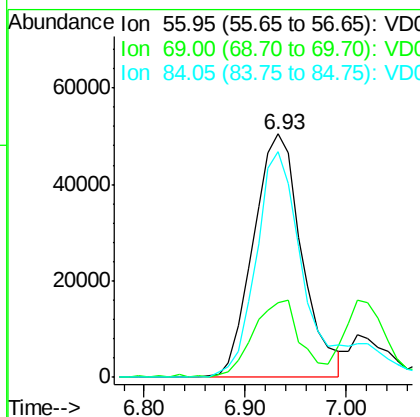
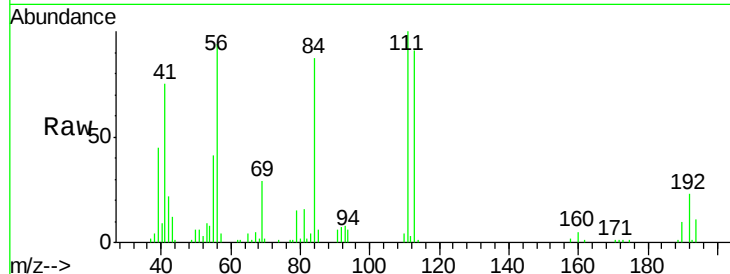




#31  
Cyclohexane  
Concen: 17.479 ug/l  
RT: 6.93 min Scan# 559  
Delta R.T. -0.00 min  
Lab File: VD063315.D  
Acq: 2 Aug 2019 14:34

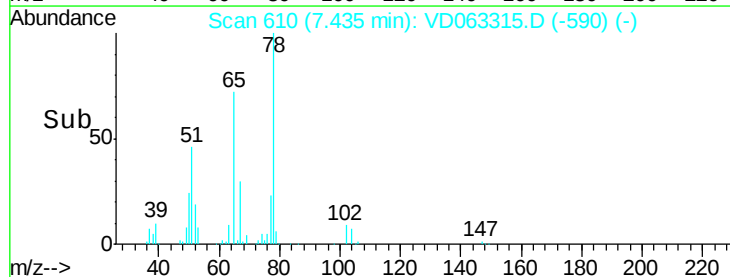
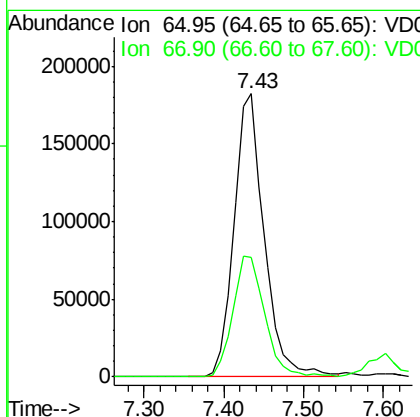
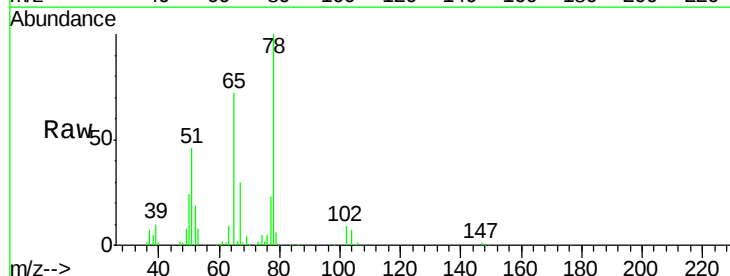
Instrument :  
MSVOA\_D  
ClientSampled :  
T3-1

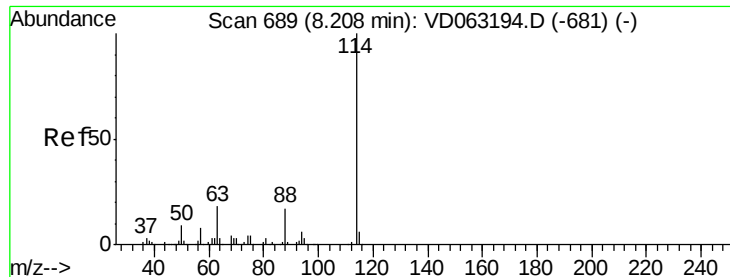
Tot Ion: 56 Resp: 168787  
Ion Ratio Lower Upper  
56 100  
69 30.8 24.5 36.7  
84 92.7 64.9 97.3



#33  
1,2-Dichloroethane-d4  
Concen: 44.158 ug/l  
RT: 7.43 min Scan# 610  
Delta R.T. -0.00 min  
Lab File: VD063315.D  
Acq: 2 Aug 2019 14:34

Tgt Ion: 65 Resp: 478710  
Ion Ratio Lower Upper  
65 100  
67 42.4 0.0 85.8





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.19 min Scan# 687

Delta R.T. -0.01 min

Lab File: VD063315.D

Acq: 2 Aug 2019 14:34

Instrument :

MSVOA\_D

ClientSampleId :

T3-1

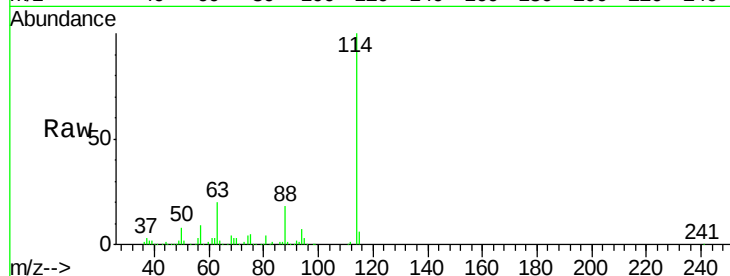
Tot Ion:114 Resp: 1348551

Ion Ratio Lower Upper

114 100

63 19.9 0.0 35.2

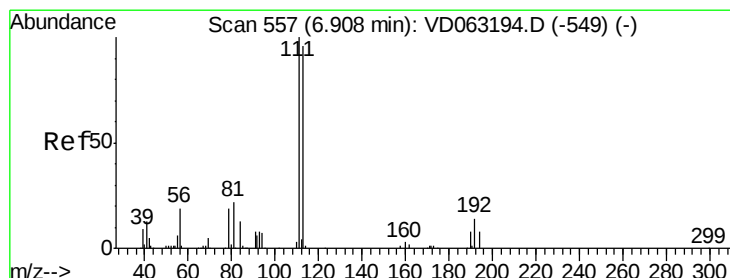
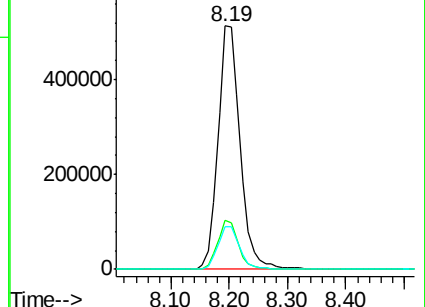
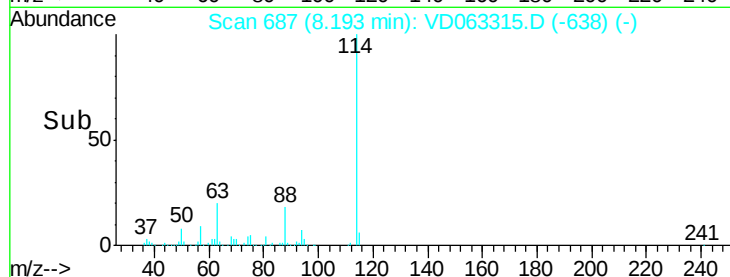
88 17.6 0.0 34.6



Abundance Ion 114.00 (113.70 to 114.70): V

Ion 62.95 (62.65 to 63.65): V

Ion 87.90 (87.60 to 88.60): V



#35

Dibromofluoromethane

Concen: 51.620 ug/l

RT: 6.90 min Scan# 556

Delta R.T. -0.00 min

Lab File: VD063315.D

Acq: 2 Aug 2019 14:34

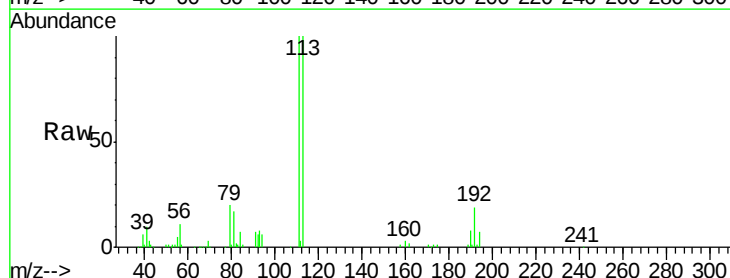
Tgt Ion:113 Resp: 594341

Ion Ratio Lower Upper

113 100

111 99.8 83.2 124.8

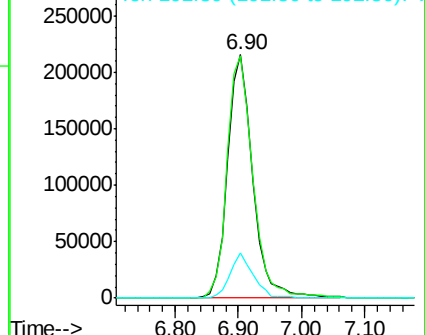
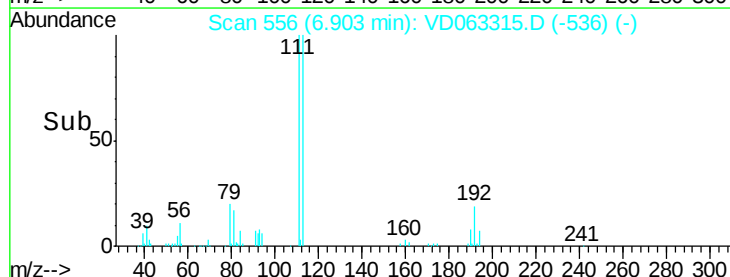
192 18.6 11.8 17.8#

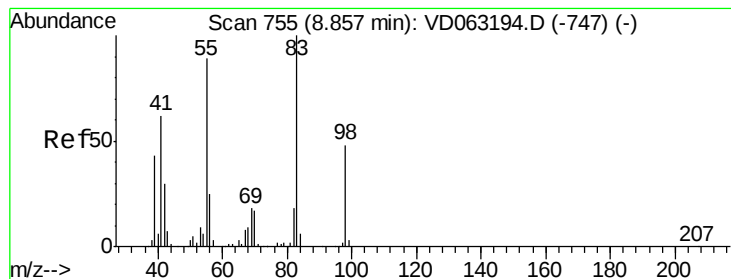


Abundance Ion 112.90 (112.60 to 113.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 191.80 (191.50 to 192.50): V





#39

Methvlcvclohexane

Concen: 2.014 ug/l

RT: 8.84 min Scan# 753

Delta R.T. -0.01 min

Lab File: VD063315.D

Acq: 2 Aug 2019 14:34

Instrument :

MSVOA\_D

ClientSampleId :

T3-1

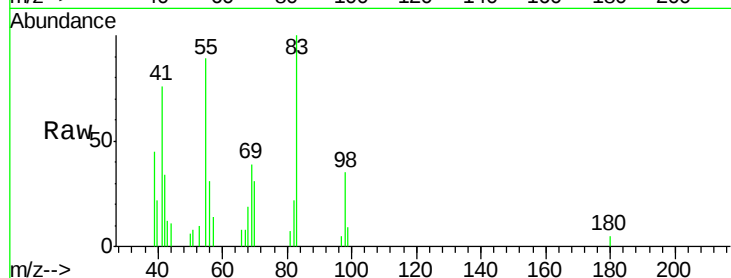
Tot Ion: 83 Resp: 20652

Ion Ratio Lower Upper

83 100

55 89.3 71.1 106.7

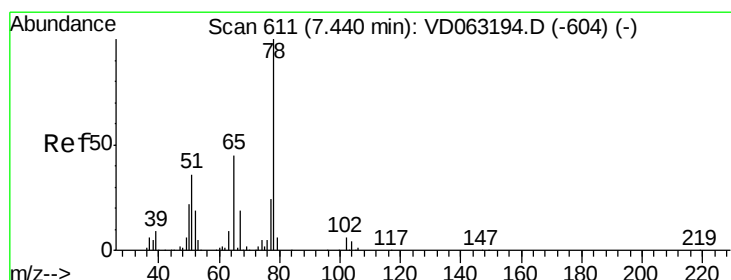
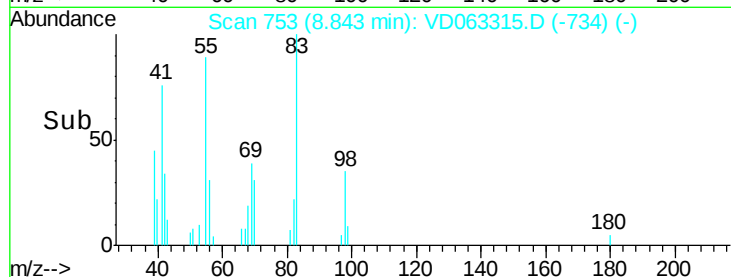
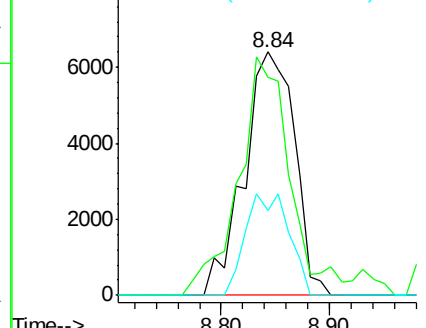
98 34.7 38.5 57.7#



Abundance Ion 83.05 (82.75 to 83.75): VDC

Ion 55.00 (54.70 to 55.70): VDC

Ion 98.05 (97.75 to 98.75): VDC



#40

Benzene

Concen: 28.593 ug/l

RT: 7.43 min Scan# 609

Delta R.T. -0.01 min

Lab File: VD063315.D

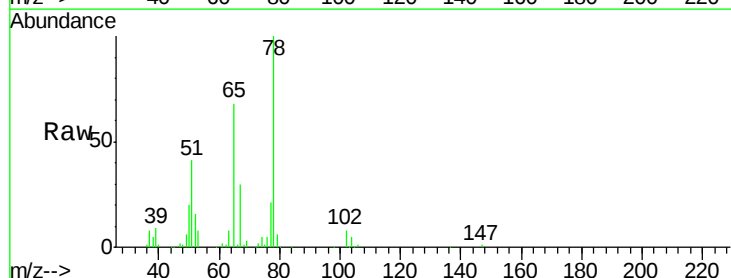
Acq: 2 Aug 2019 14:34

Tgt Ion: 78 Resp: 737507

Ion Ratio Lower Upper

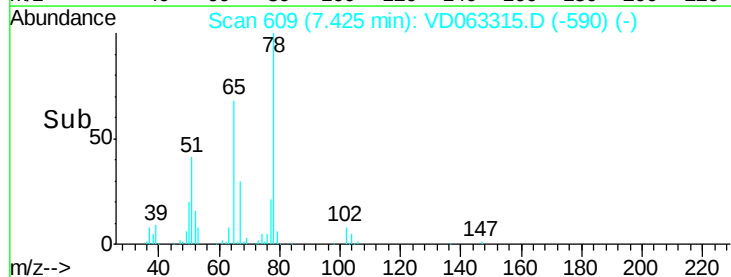
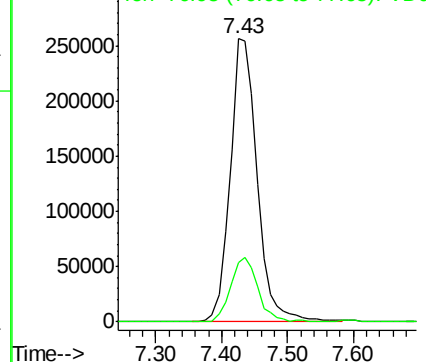
78 100

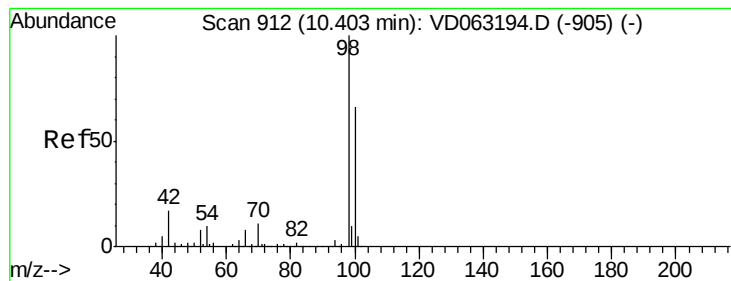
77 21.1 19.4 29.2



Abundance Ion 77.95 (77.65 to 78.65): VDC

Ion 76.95 (76.65 to 77.65): VDC





#50

Toluene-d8

Concen: 45.452 ug/l

RT: 10.40 min Scan# 911

Delta R.T. -0.00 min

Lab File: VD063315.D

Acq: 2 Aug 2019 14:34

Instrument :

MSVOA\_D

ClientSampleId :

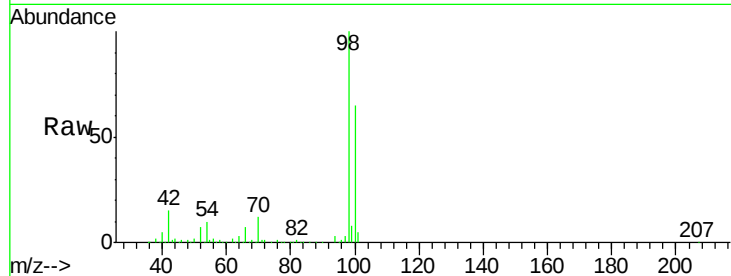
T3-1

Tot Ion: 98 Resp: 1171195

Ion Ratio Lower Upper

98 100

100 64.5 53.2 79.8



Abundance Ion 98.05 (97.75 to 98.75): VD063315.D (-905) (-)

Ion 100.05 (99.75 to 100.75): VD063315.D (-905) (-)

10.40

500000

400000

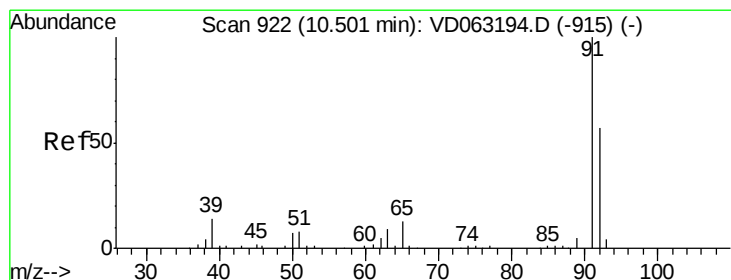
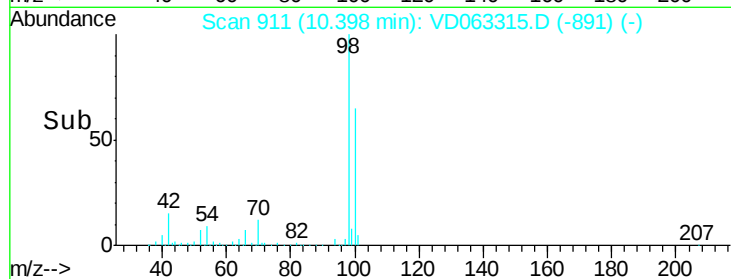
300000

200000

100000

0

Time-->



#52

Toluene

Concen: 8.652 ug/l

RT: 10.50 min Scan# 921

Delta R.T. -0.00 min

Lab File: VD063315.D

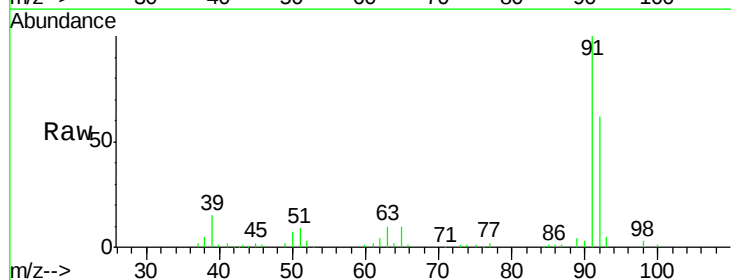
Acq: 2 Aug 2019 14:34

Tgt Ion: 92 Resp: 148428

Ion Ratio Lower Upper

92 100

91 160.0 140.8 211.2



Abundance Ion 92.00 (91.70 to 92.70): VD063315.D (-901) (-)

Ion 91.00 (90.70 to 91.70): VD063315.D (-901) (-)

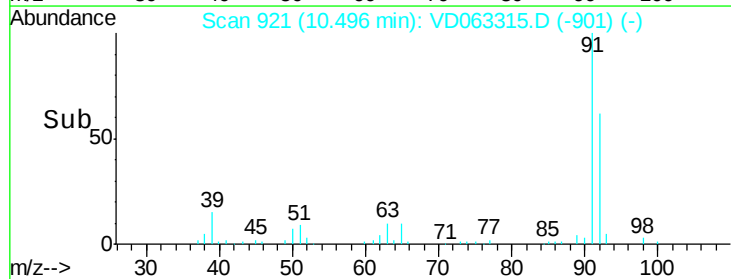
10.50

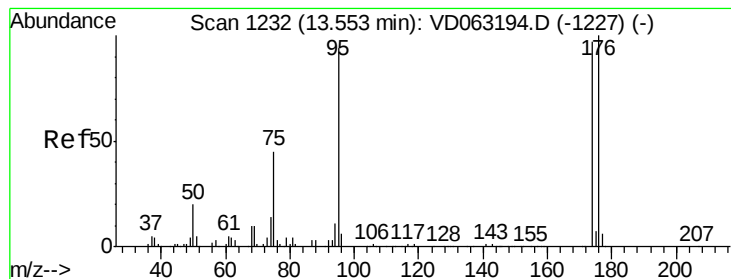
100000

50000

0

Time-->





#62

4-Bromofluorobenzene

Concen: 39.049 ug/l

RT: 13.55 min Scan# 1231

Delta R.T. -0.00 min

Lab File: VD063315.D

Acq: 2 Aug 2019 14:34

Instrument :

MSVOA\_D

ClientSampleId :

T3-1

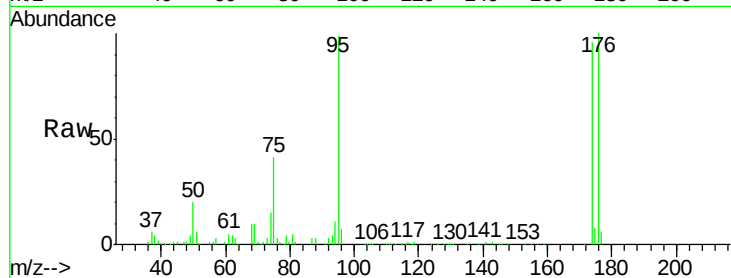
Tot Ion: 95 Resp: 458520

Ion Ratio Lower Upper

95 100

174 97.3 0.0 205.4

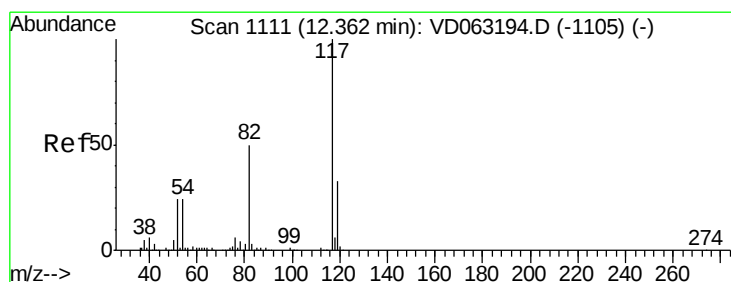
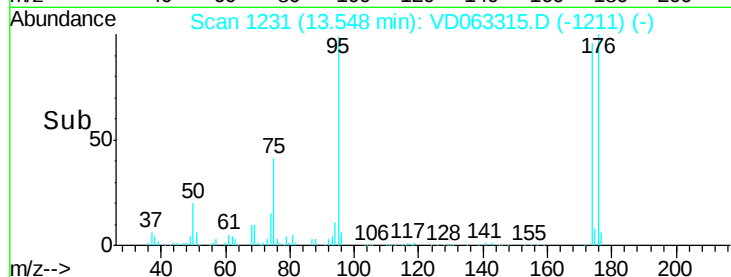
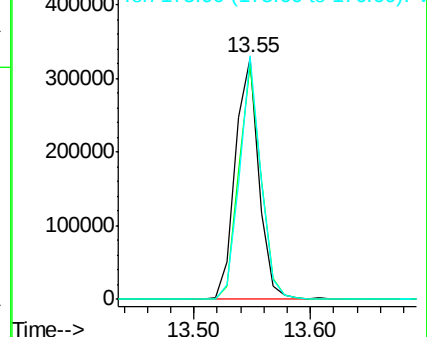
176 100.9 0.0 211.8



Abundance Ion 95.00 (94.70 to 95.70): V

Ion 173.90 (173.60 to 174.60): V

Ion 175.90 (175.60 to 176.60): V



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 12.36 min Scan# 1110

Delta R.T. -0.00 min

Lab File: VD063315.D

Acq: 2 Aug 2019 14:34

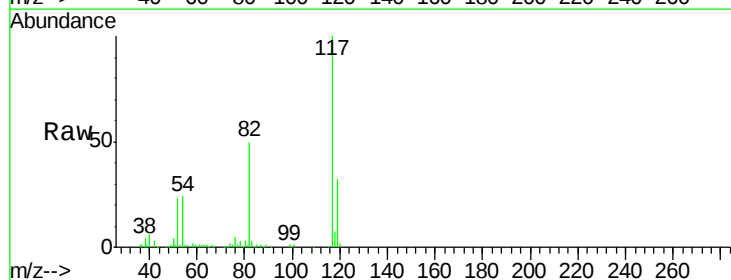
Tgt Ion: 117 Resp: 1005909

Ion Ratio Lower Upper

117 100

82 49.9 40.1 60.1

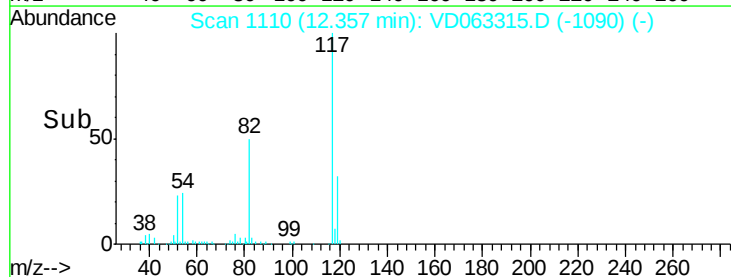
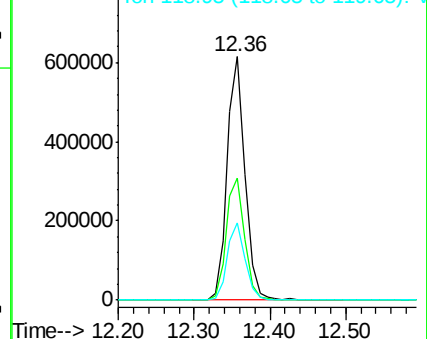
119 31.8 26.5 39.7

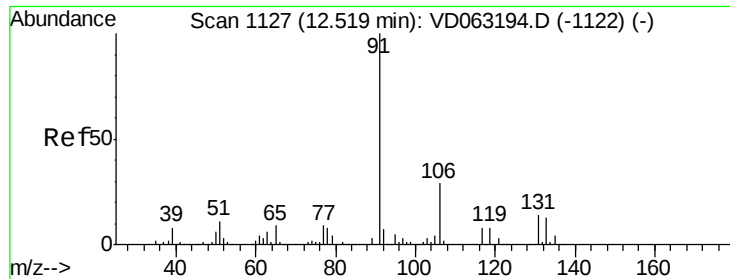


Abundance Ion 116.95 (116.65 to 117.65): V

Ion 82.05 (81.75 to 82.75): V

Ion 118.95 (118.65 to 119.65): V

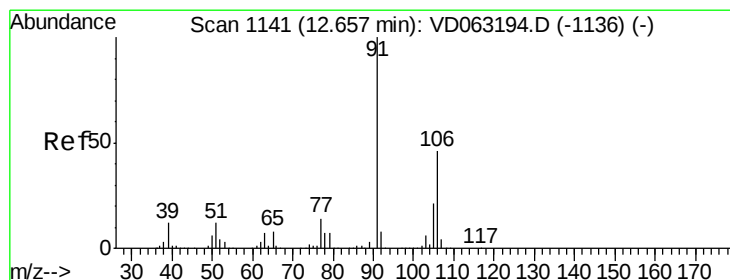
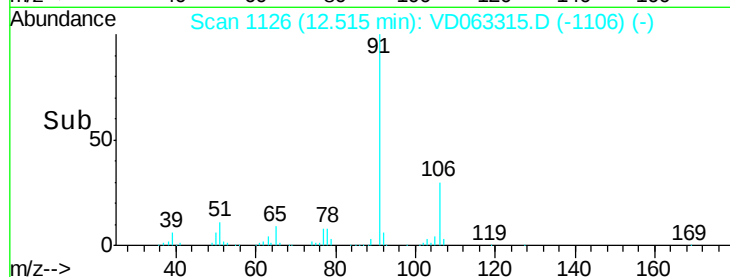
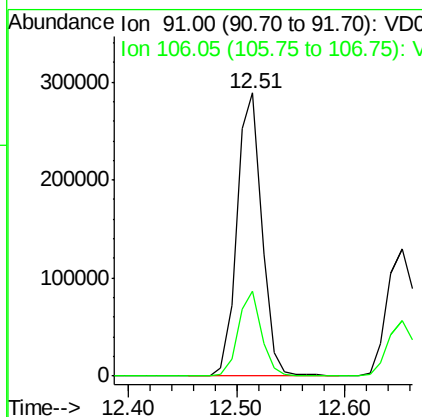
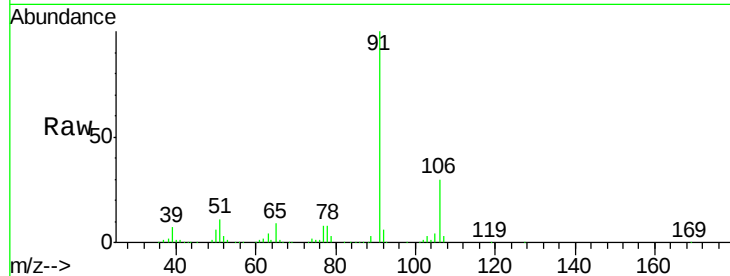




#67  
Ethyl Benzene  
Concen: 14.056 ug/l  
RT: 12.51 min Scan# 1126  
Delta R.T. -0.00 min  
Lab File: VD063315.D  
Acq: 2 Aug 2019 14:34

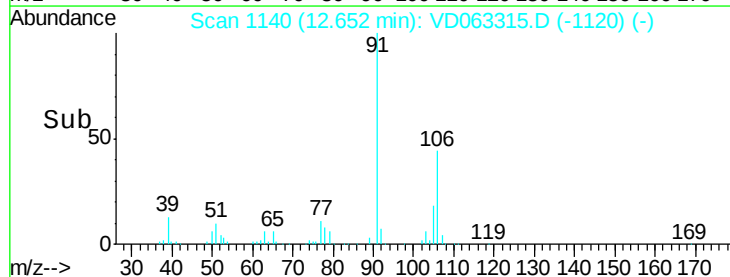
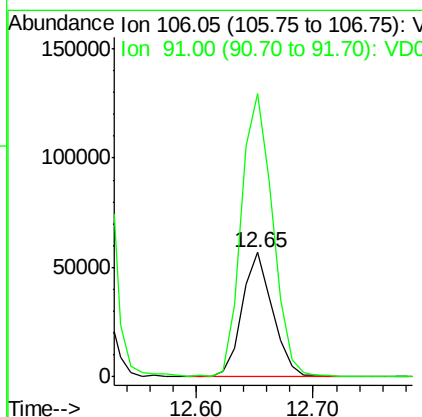
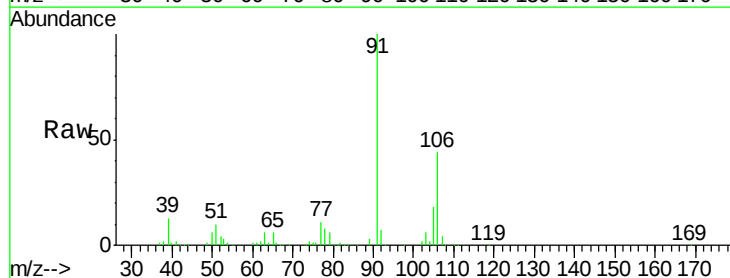
Instrument :  
MSVOA\_D  
ClientSampleId :  
T3-1

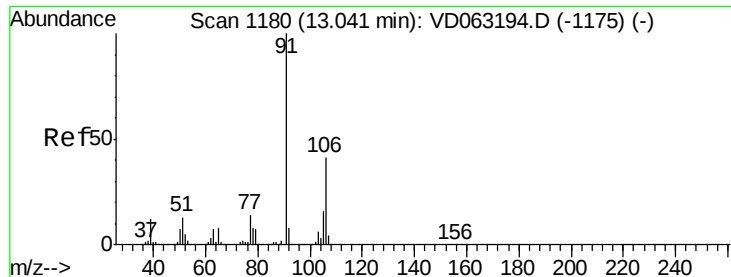
Tot Ion: 91 Resp: 461999  
Ion Ratio Lower Upper  
91 100  
106 29.9 22.9 34.3



#68  
m/p-Xylenes  
Concen: 8.538 ug/l  
RT: 12.65 min Scan# 1140  
Delta R.T. -0.00 min  
Lab File: VD063315.D  
Acq: 2 Aug 2019 14:34

Tgt Ion: 106 Resp: 102917  
Ion Ratio Lower Upper  
106 100  
91 228.0 172.6 259.0

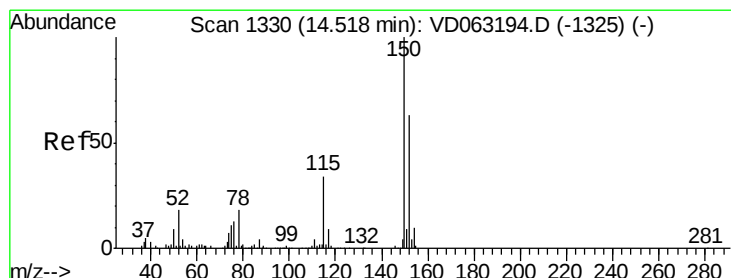
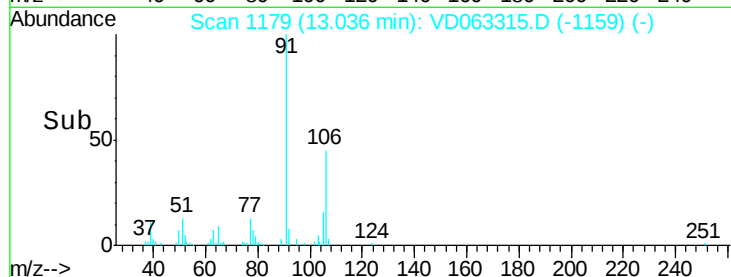
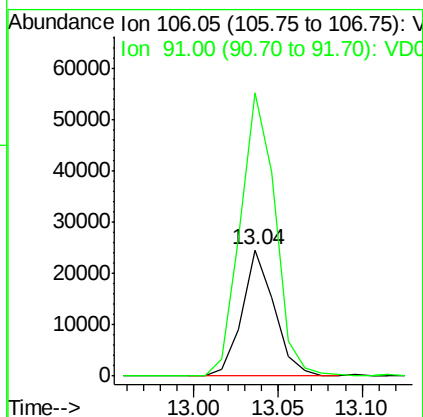
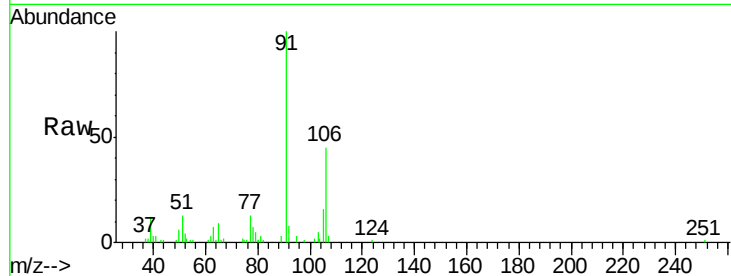




#69  
o-Xylene  
Concen: 2.965 ug/l  
RT: 13.04 min Scan# 1179  
Delta R.T. -0.00 min  
Lab File: VD063315.D  
Acq: 2 Aug 2019 14:34

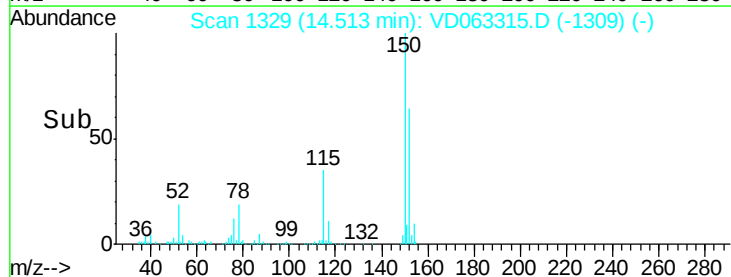
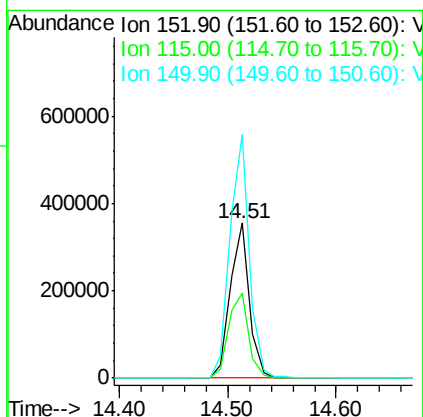
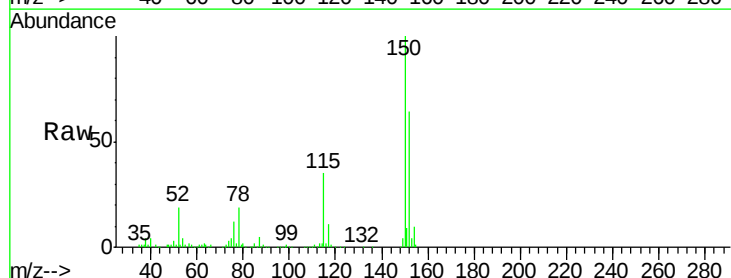
Instrument :  
MSVOA\_D  
ClientSampled :  
T3-1

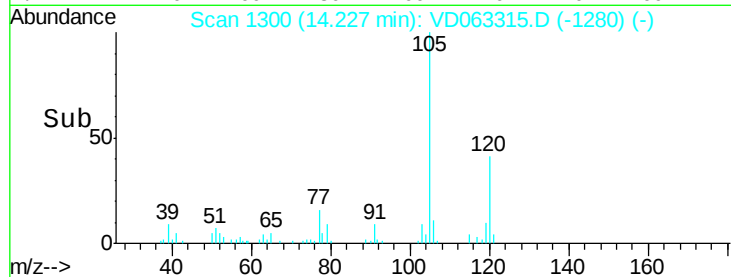
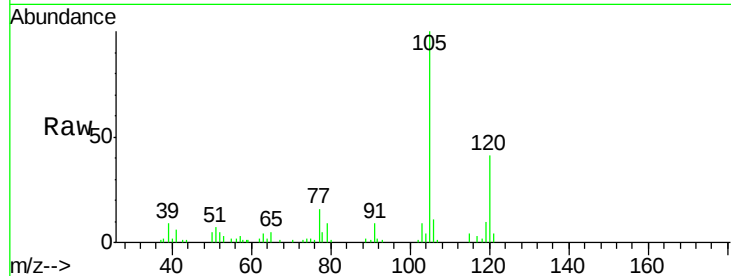
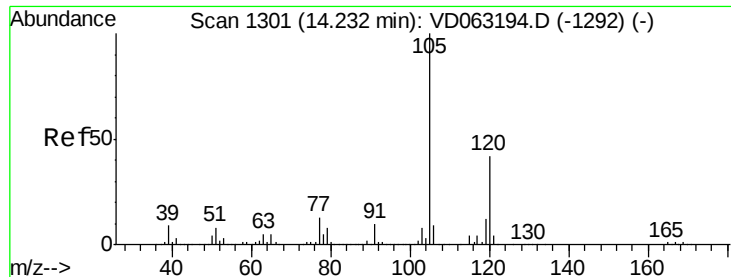
Tot Ion:106 Resp: 32817  
Ion Ratio Lower Upper  
106 100  
91 223.6 121.3 363.9



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 14.51 min Scan# 1329  
Delta R.T. -0.00 min  
Lab File: VD063315.D  
Acq: 2 Aug 2019 14:34

Tgt Ion:152 Resp: 436937  
Ion Ratio Lower Upper  
152 100  
115 54.5 27.5 82.4  
150 157.1 0.0 320.6





#84  
 1,2,4-Trimethylbenzene  
 Concen: 2.436 ug/l  
 RT: 14.23 min Scan# 1300  
 Delta R.T. -0.00 min  
 Lab File: VD063315.D  
 Acq: 2 Aug 2019 14:34

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 T3-1

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 105     | 100   |       |       |
| 120     | 40.8  | 20.9  | 62.7  |

