

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD080119\  
 Data File : VD063289.D  
 Acq On : 1 Aug 2019 12:23  
 Operator : VA/AP  
 Sample : K4106-01  
 Misc : 5.27g/5ml/MSVOA D/SOIL  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 WC-01

Quant Time: Aug 02 07:43:07 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      | 7.03  | 168  | 1050626  | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.21  | 114  | 1381361  | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 12.35 | 117  | 1119481  | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 14.51 | 152  | 352695   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units  | Dev(Min) |
|-----------------------------|-------|------|----------|-------|--------|----------|
| 33) 1,2-Dichloroethane-d4   | 7.44  | 65   | 418680   | 35.91 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 71.82% |          |
| 35) Dibromofluoromethane    | 6.91  | 113  | 236133   | 20.02 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 40.04% |          |
| 50) Toluene-d8              | 10.40 | 98   | 946173   | 35.85 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 71.70% |          |
| 62) 4-Bromofluorobenzene    | 13.55 | 95   | 344516   | 28.64 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 57.28% |          |

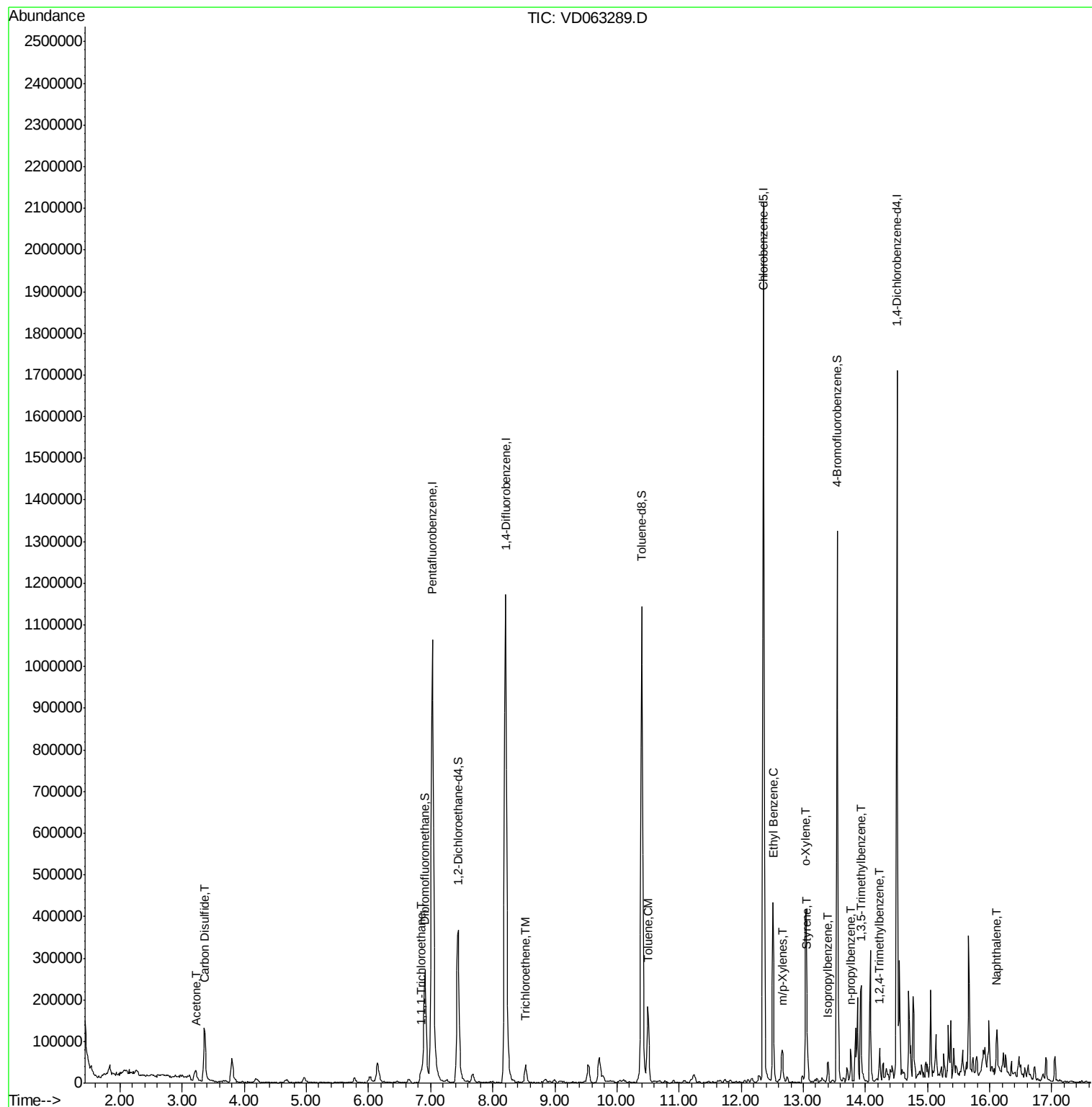
| Target Compounds           | R.T.  | QIon | Response | Conc   | Units  | Qvalue |
|----------------------------|-------|------|----------|--------|--------|--------|
| 16) Acetone                | 3.21  | 43   | 47474    | 20.901 | ug/l # | 89     |
| 17) Carbon Disulfide       | 3.36  | 76   | 223773   | 8.204  | ug/l   | 100    |
| 32) 1,1,1-Trichloroethane  | 6.85  | 97   | 32833    | 1.651  | ug/l   | 96     |
| 44) Trichloroethene        | 8.53  | 130  | 18549    | 1.733  | ug/l   | 78     |
| 52) Toluene                | 10.49 | 92   | 89094    | 5.070  | ug/l   | 96     |
| 67) Ethyl Benzene          | 12.51 | 91   | 278098   | 7.603  | ug/l   | 98     |
| 68) m/p-Xylenes            | 12.66 | 106  | 24076    | 1.795  | ug/l   | 88     |
| 69) o-Xylene               | 13.04 | 106  | 101251   | 8.219  | ug/l   | 95     |
| 70) Styrene                | 13.06 | 104  | 38278    | 1.752  | ug/l # | 90     |
| 73) Isopropylbenzene       | 13.40 | 105  | 25408    | 1.148  | ug/l   | 91     |
| 78) n-propylbenzene        | 13.76 | 91   | 47311    | 1.796  | ug/l   | 98     |
| 80) 1,3,5-Trimethylbenzene | 13.93 | 105  | 111880   | 5.860  | ug/l   | 95     |
| 84) 1,2,4-Trimethylbenzene | 14.23 | 105  | 34076    | 1.726  | ug/l   | 93     |
| 95) Naphthalene            | 16.12 | 128  | 59565    | 5.460  | ug/l   | 97     |

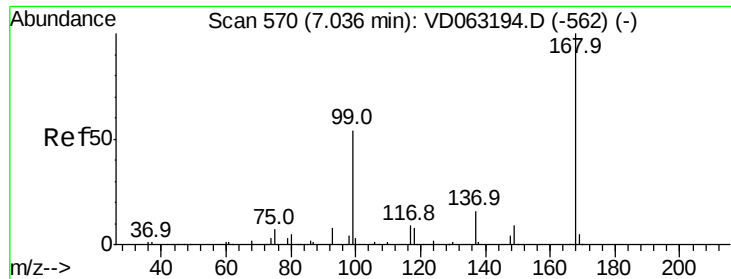
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA D\DATA\VD080119\  
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Instrument :  
MSVOA\_D  
ClientSampleId :  
WC-01

Quant Time: Aug 02 07:43:07 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: 7.03 min Scan# 569

Delta R.T. -0.01 min

Lab File: VD063289.D

Acq: 1 Aug 2019 12:23

Instrument :

MSVOA\_D

ClientSampleId :

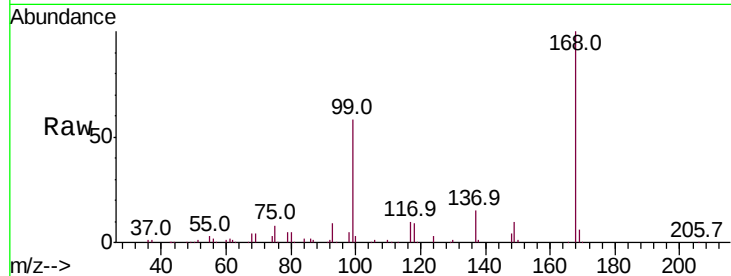
WC-01

Tot Ion:168 Resp: 1050626

Ion Ratio Lower Upper

168 100

99 58.4 43.7 65.5



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC

7.03

400000

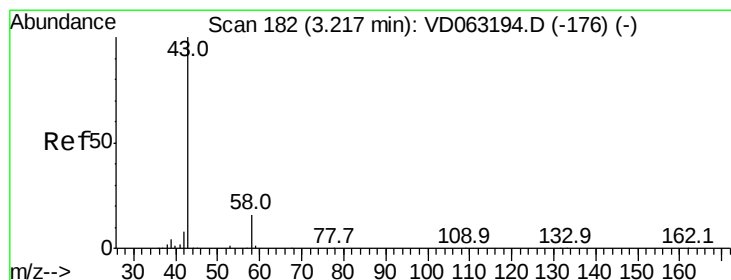
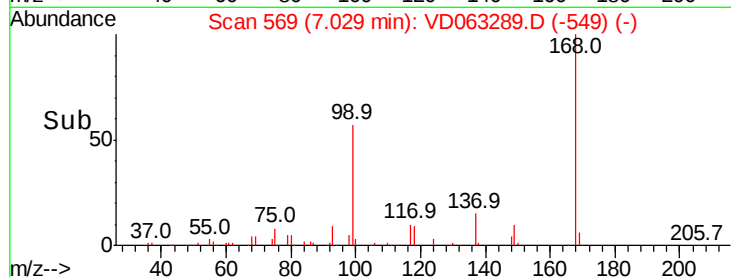
300000

200000

100000

0

Time-->



#16

Acetone

Concen: 20.901 ug/l

RT: 3.21 min Scan# 181

Delta R.T. -0.01 min

Lab File: VD063289.D

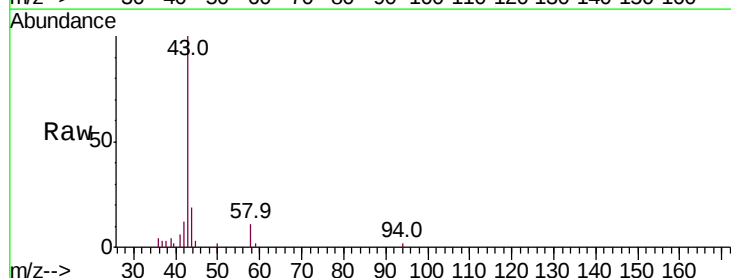
Acq: 1 Aug 2019 12:23

Tgt Ion: 43 Resp: 47474

Ion Ratio Lower Upper

43 100

58 11.4 13.0 19.4#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC

3.21

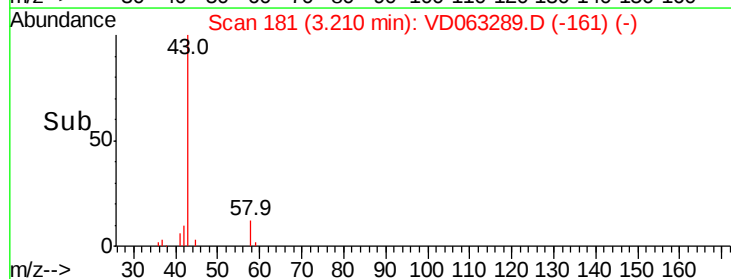
15000

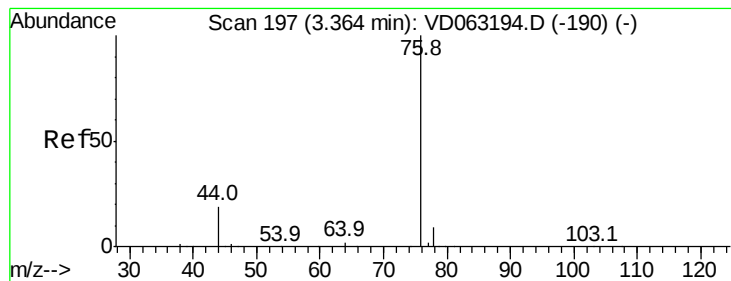
10000

5000

0

Time-->





#17

Carbon Disulfide

Concen: 8.204 ug/l

RT: 3.36 min Scan# 196

Delta R.T. -0.01 min

Lab File: VD063289.D

Acq: 1 Aug 2019 12:23

Instrument :

MSVOA\_D

ClientSampleId :

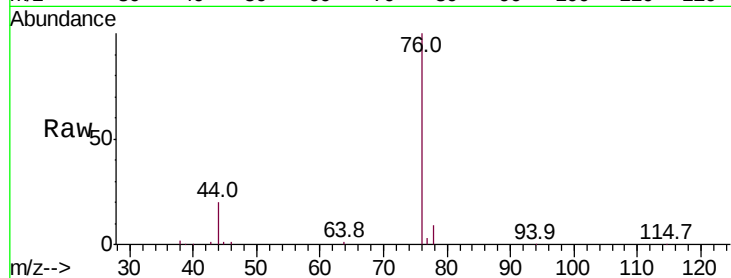
WC-01

Tot Ion: 76 Resp: 223773

Ion Ratio Lower Upper

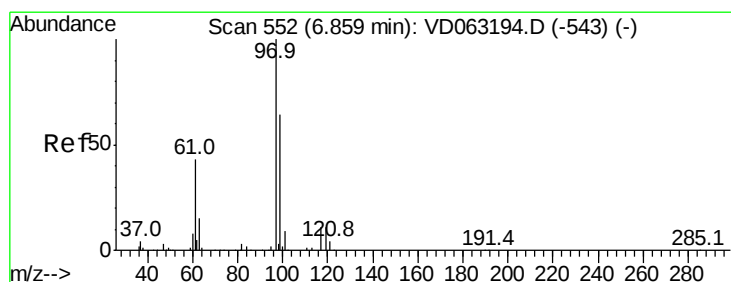
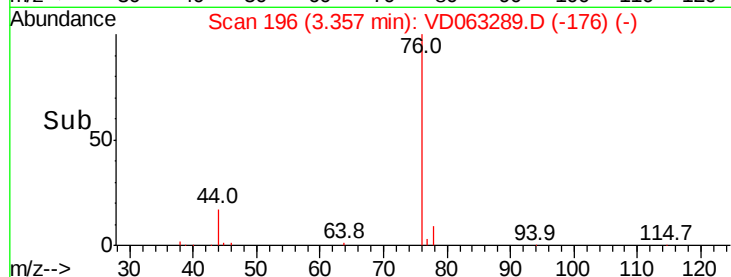
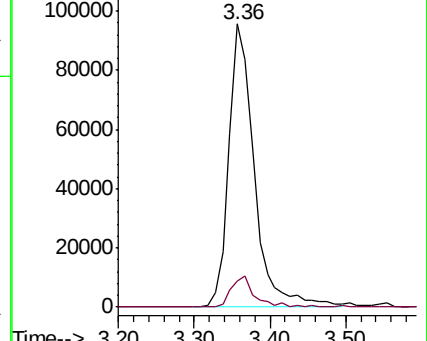
76 100

78 9.1 7.4 11.2



Abundance Ion 75.85 (75.55 to 76.55): VDC

Ion 77.85 (77.55 to 78.55): VDC



#32

1,1,1-Trichloroethane

Concen: 1.651 ug/l

RT: 6.85 min Scan# 551

Delta R.T. -0.01 min

Lab File: VD063289.D

Acq: 1 Aug 2019 12:23

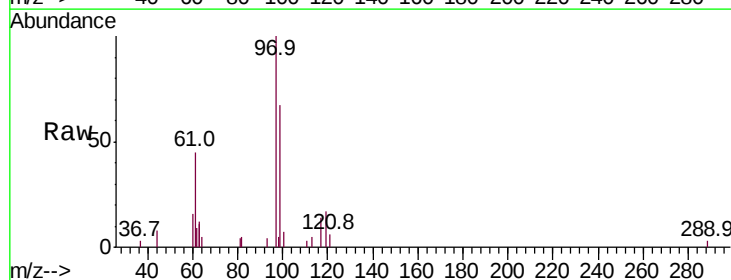
Tgt Ion: 97 Resp: 32833

Ion Ratio Lower Upper

97 100

99 67.1 51.2 76.8

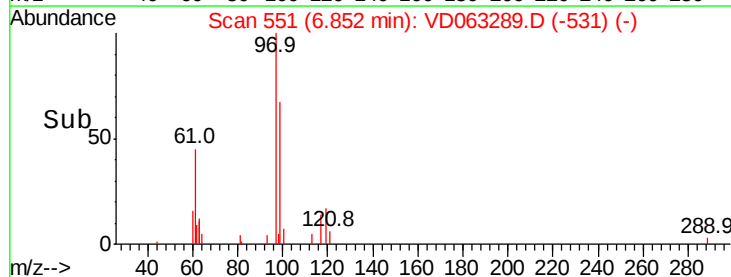
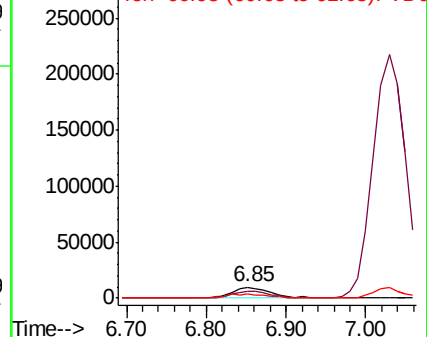
61 44.7 34.2 51.2

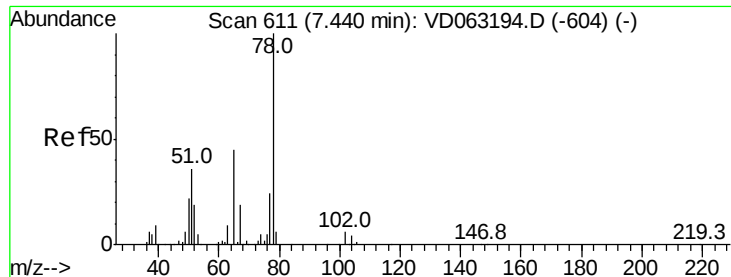


Abundance Ion 96.85 (96.55 to 97.55): VDC

Ion 98.85 (98.55 to 99.55): VDC

Ion 60.95 (60.65 to 61.65): VDC





#33

1,2-Dichloroethane-d4

Concen: 35.914 ug/l

RT: 7.44 min Scan# 611

Delta R.T. 0.00 min

Lab File: VD063289.D

Acq: 1 Aug 2019 12:23

Instrument :

MSVOA\_D

ClientSampleId :

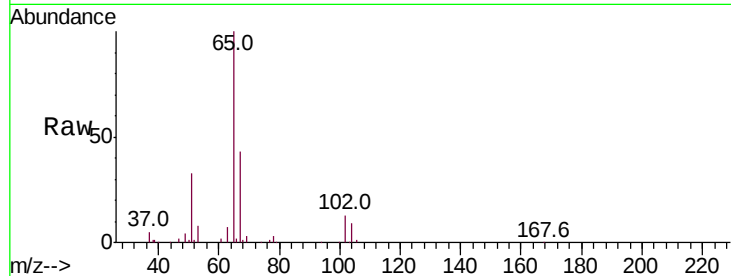
WC-01

Tot Ion: 65 Resp: 418680

Ion Ratio Lower Upper

65 100

67 43.4 0.0 85.8



Abundance Ion 64.95 (64.65 to 65.65): VDC

Ion 66.90 (66.60 to 67.60): VDC

7.44

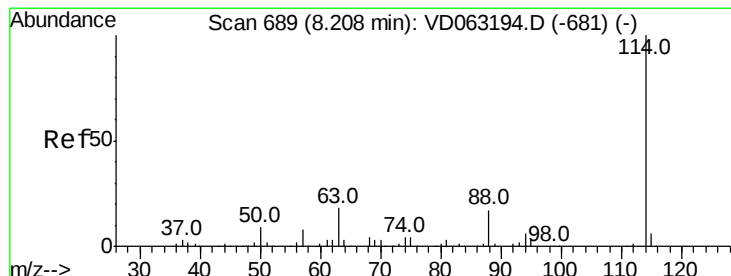
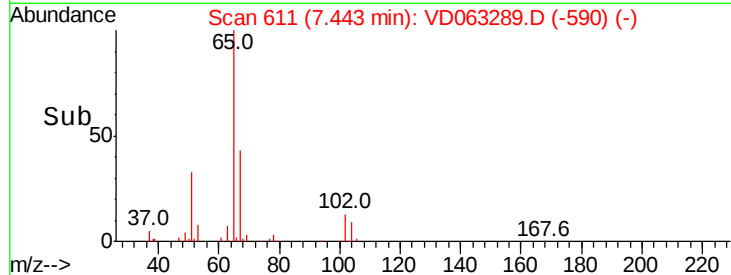
150000

100000

50000

0

Time--> 7.30 7.40 7.50 7.60



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.21 min Scan# 689

Delta R.T. 0.00 min

Lab File: VD063289.D

Acq: 1 Aug 2019 12:23

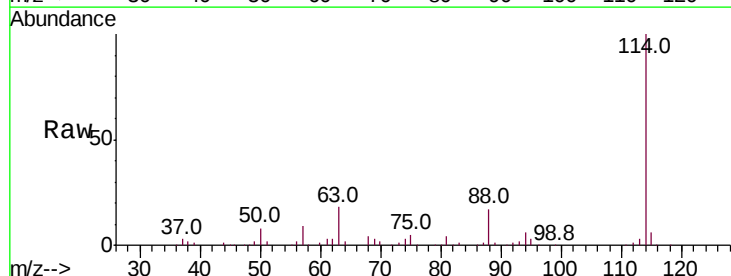
Tgt Ion:114 Resp: 1381361

Ion Ratio Lower Upper

114 100

63 17.7 0.0 35.2

88 17.3 0.0 34.6



Abundance Ion 114.00 (113.70 to 114.70): V

Ion 62.95 (62.65 to 63.65): VDC

Ion 87.90 (87.60 to 88.60): VDC

8.21

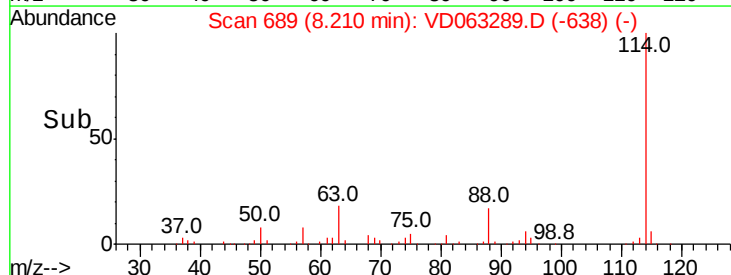
600000

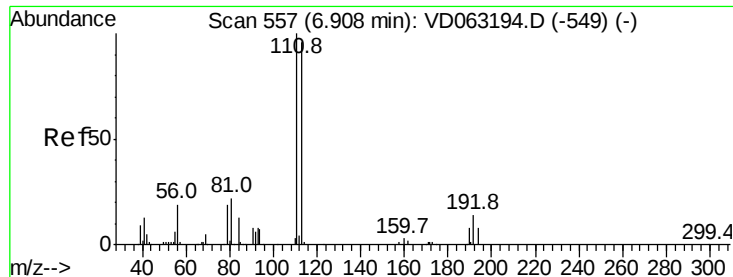
400000

200000

0

Time--> 8.00 8.10 8.20 8.30 8.40





#35

Dibromofluoromethane

Concen: 20.022 ug/l

RT: 6.91 min Scan# 557

Delta R.T. 0.00 min

Lab File: VD063289.D

Acq: 1 Aug 2019 12:23

Instrument :

MSVOA\_D

ClientSampleId :

WC-01

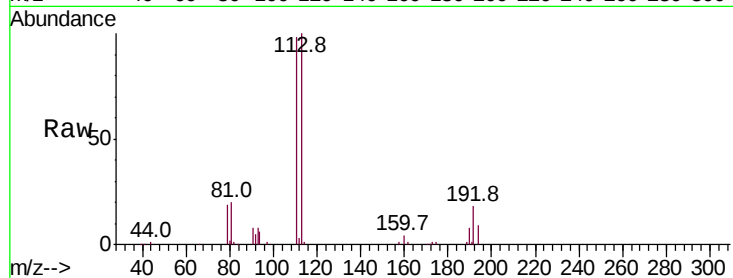
Tot Ion:113 Resp: 236133

Ion Ratio Lower Upper

113 100

111 98.0 83.2 124.8

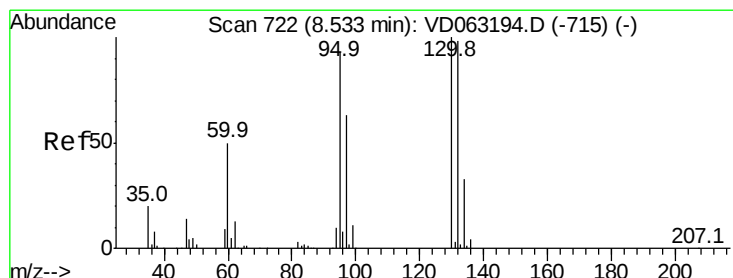
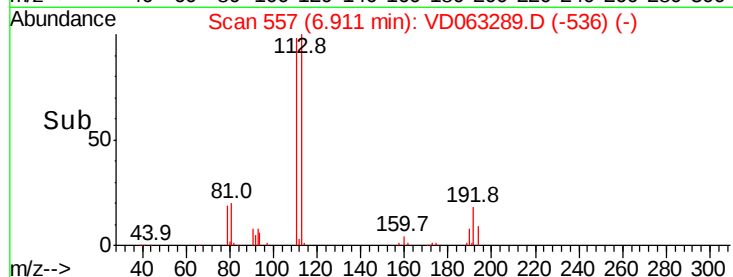
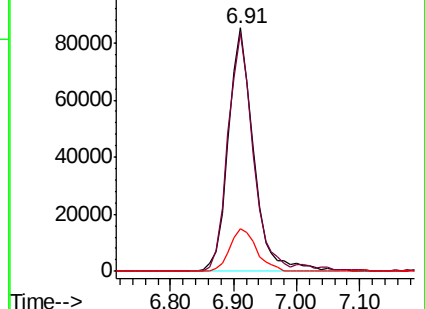
192 17.6 11.8 17.8



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



#44

Trichloroethene

Concen: 1.733 ug/l

RT: 8.53 min Scan# 721

Delta R.T. -0.01 min

Lab File: VD063289.D

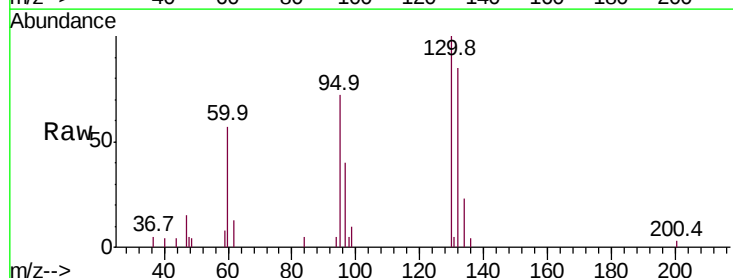
Acq: 1 Aug 2019 12:23

Tgt Ion:130 Resp: 18549

Ion Ratio Lower Upper

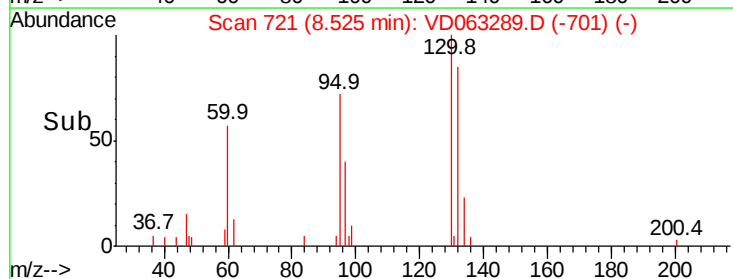
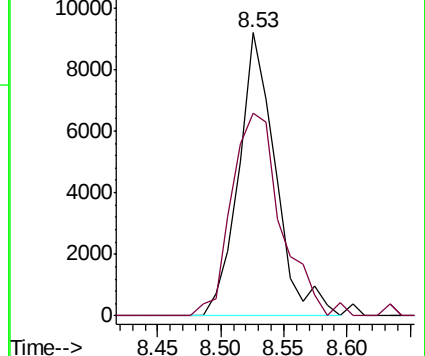
130 100

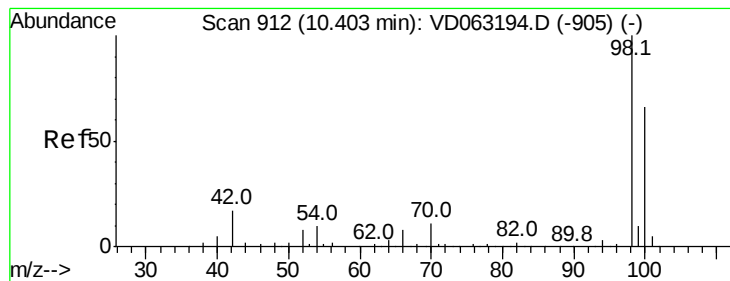
95 71.8 0.0 185.4



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): V





#50

Toluene-d8

Concen: 35.847 ug/l

RT: 10.40 min Scan# 911

Delta R.T. -0.01 min

Lab File: VD063289.D

Acq: 1 Aug 2019 12:23

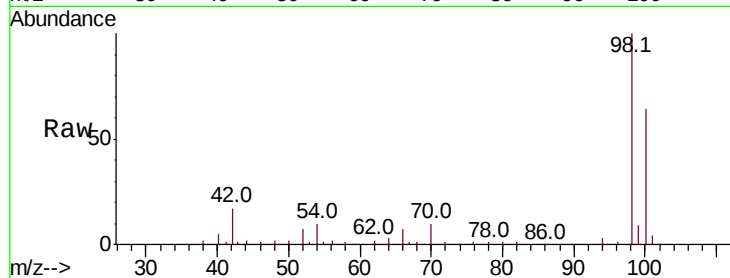
Instrument :  
MSVOA\_D  
ClientSampleId :  
WC-01

Tot Ion: 98 Resp: 946173

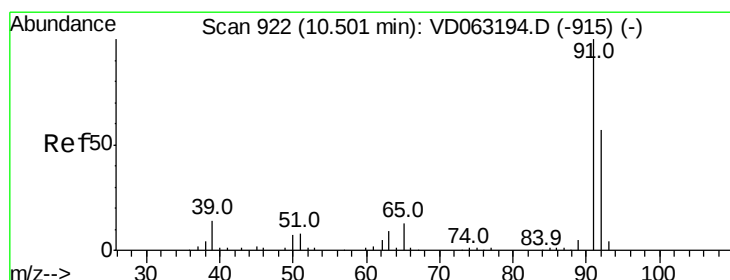
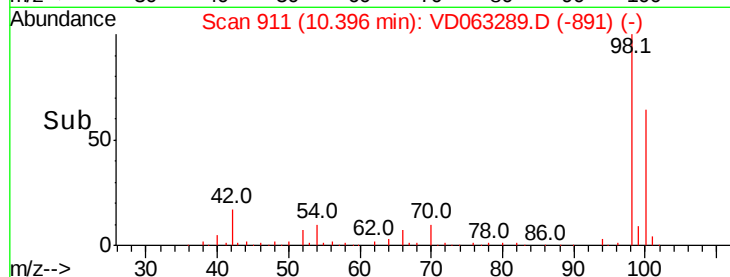
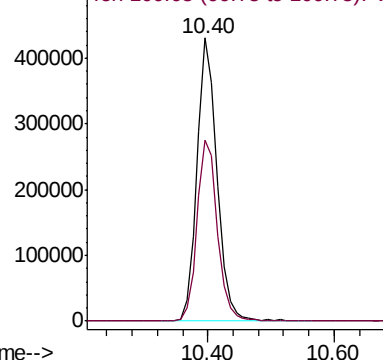
Ion Ratio Lower Upper

98 100

100 63.9 53.2 79.8



Abundance Ion 98.05 (97.75 to 98.75): VDC  
Ion 100.05 (99.75 to 100.75): VDC



#52

Toluene

Concen: 5.070 ug/l

RT: 10.49 min Scan# 921

Delta R.T. -0.01 min

Lab File: VD063289.D

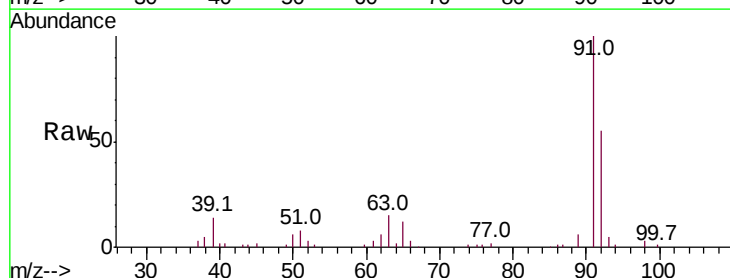
Acq: 1 Aug 2019 12:23

Tgt Ion: 92 Resp: 89094

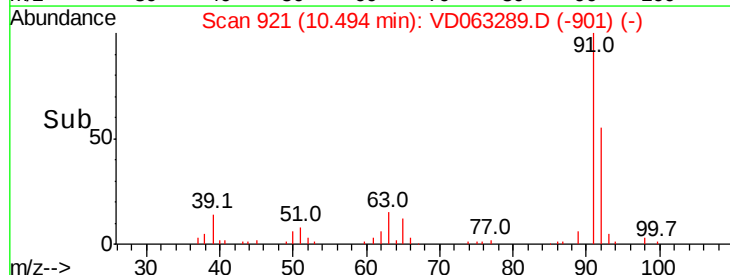
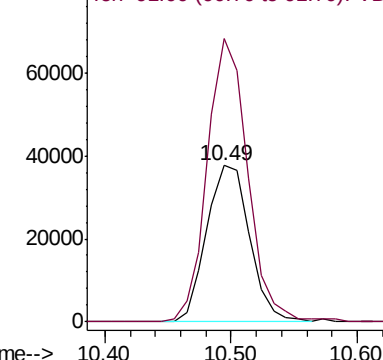
Ion Ratio Lower Upper

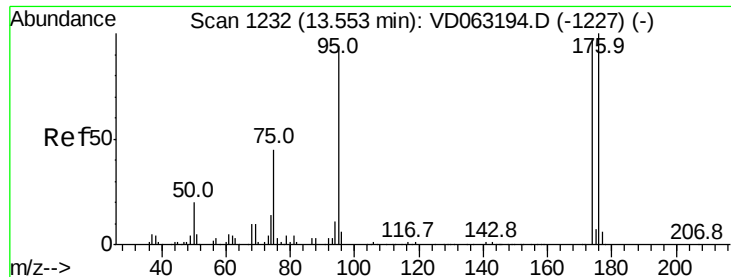
92 100

91 181.4 140.8 211.2



Abundance Ion 92.00 (91.70 to 92.70): VDC  
Ion 91.00 (90.70 to 91.70): VDC





#62

4-Bromofluorobenzene

Concen: 28.643 ug/l

RT: 13.55 min Scan# 1231

Delta R.T. -0.01 min

Lab File: VD063289.D

Acq: 1 Aug 2019 12:23

Instrument :

MSVOA\_D

ClientSampleId :

WC-01

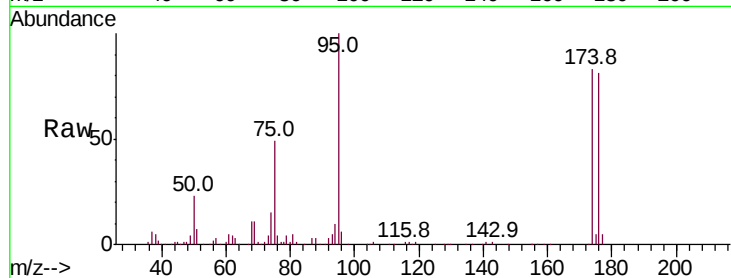
Tot Ion: 95 Resp: 344516

Ion Ratio Lower Upper

95 100

174 83.1 0.0 205.4

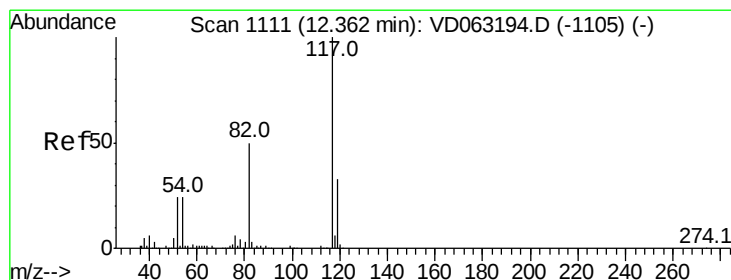
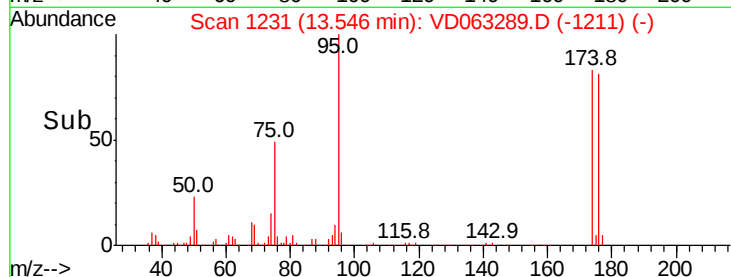
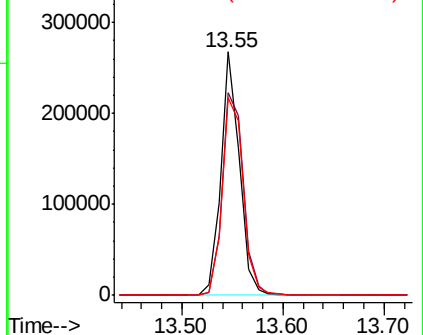
176 81.0 0.0 211.8



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: 12.35 min Scan# 1110

Delta R.T. -0.01 min

Lab File: VD063289.D

Acq: 1 Aug 2019 12:23

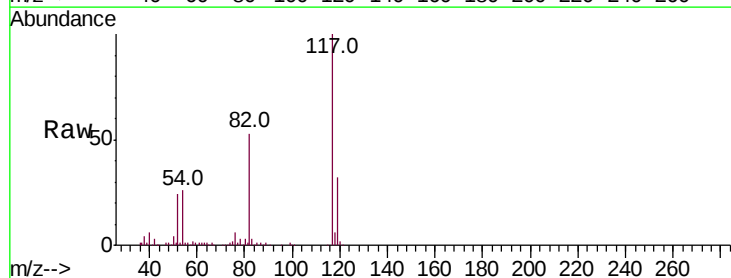
Tgt Ion: 117 Resp: 1119481

Ion Ratio Lower Upper

117 100

82 53.2 40.1 60.1

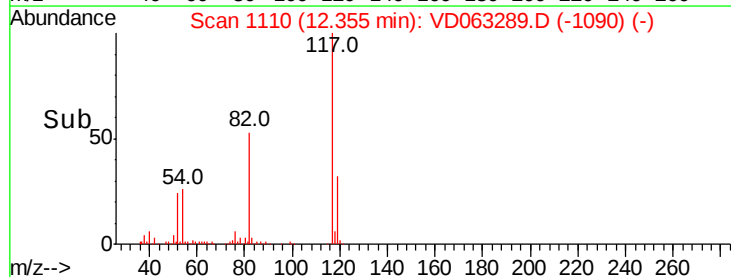
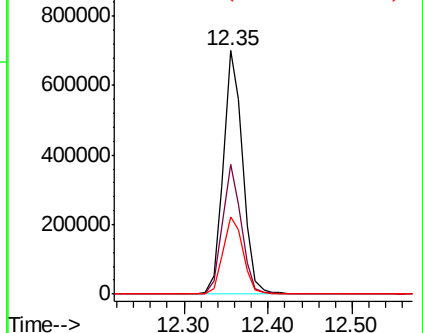
119 31.7 26.5 39.7

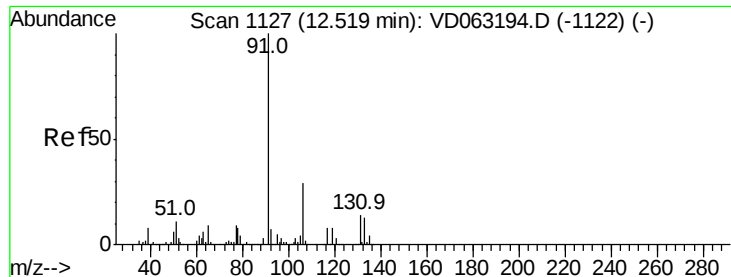


Abundance Ion 116.95 (116.65 to 117.65): V

Ion 82.05 (81.75 to 82.75): V

Ion 118.95 (118.65 to 119.65): V





#67

Ethyl Benzene

Concen: 7.603 ug/l

RT: 12.51 min Scan# 1126

Delta R.T. -0.01 min

Lab File: VD063289.D

Acq: 1 Aug 2019 12:23

Instrument :

MSVOA\_D

ClientSampleId :

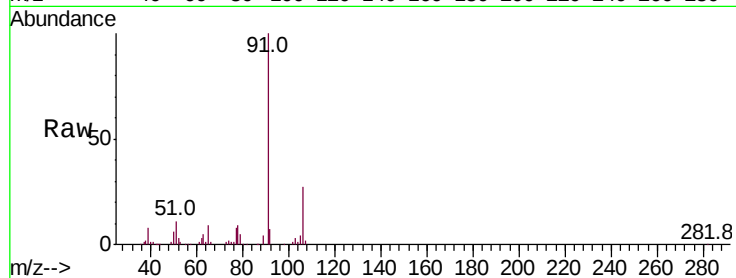
WC-01

Tot Ion: 91 Resp: 278098

Ion Ratio Lower Upper

91 100

106 27.3 22.9 34.3



Abundance Ion 91.00 (90.70 to 91.70): VD0

Ion 106.05 (105.75 to 106.75): V

12.51

200000

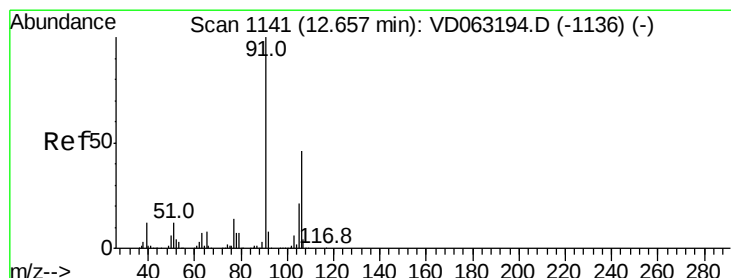
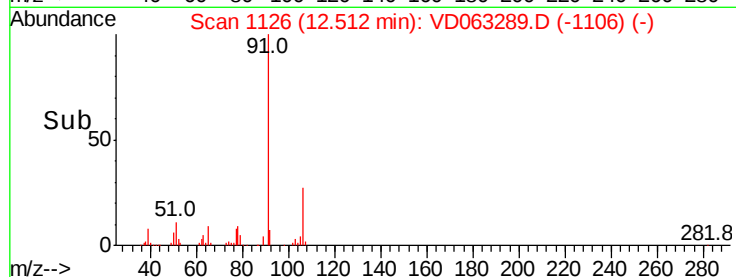
150000

100000

50000

0

Time--> 12.40 12.50 12.60



#68

m/p-Xylenes

Concen: 1.795 ug/l

RT: 12.66 min Scan# 1141

Delta R.T. 0.00 min

Lab File: VD063289.D

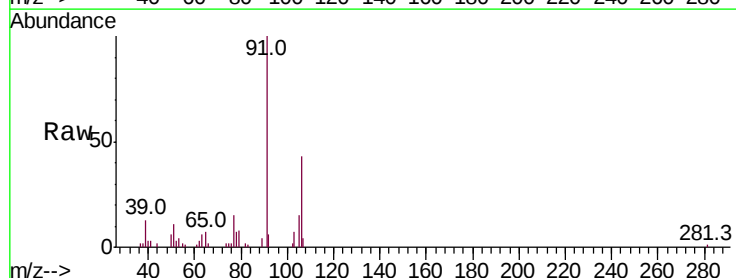
Acq: 1 Aug 2019 12:23

Tgt Ion:106 Resp: 24076

Ion Ratio Lower Upper

106 100

91 234.3 172.6 259.0



Abundance Ion 106.05 (105.75 to 106.75): V

Ion 91.00 (90.70 to 91.70): VD0

12.66

30000

25000

20000

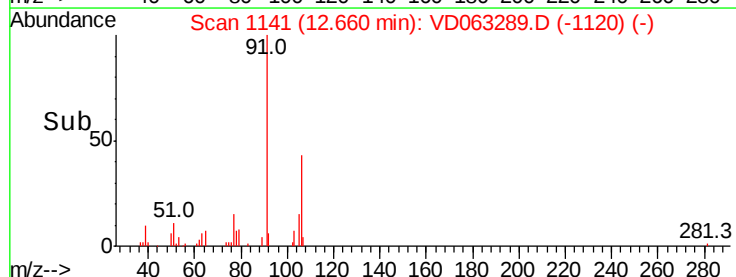
15000

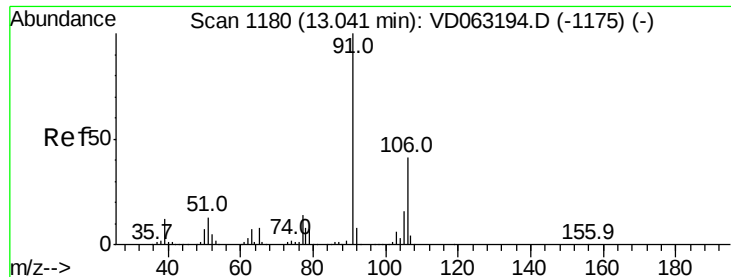
10000

5000

0

Time--> 12.60 12.70

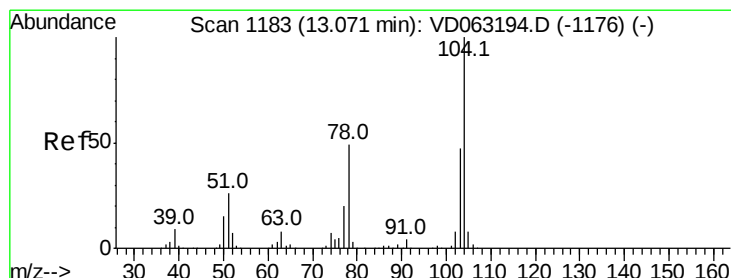
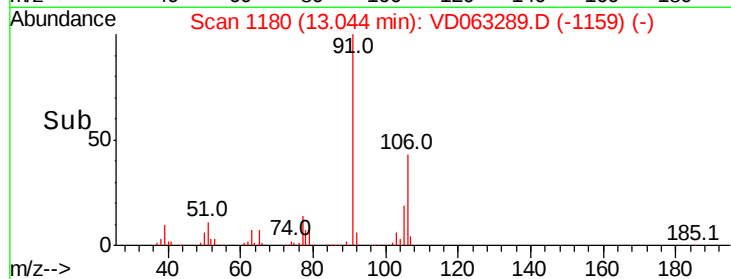
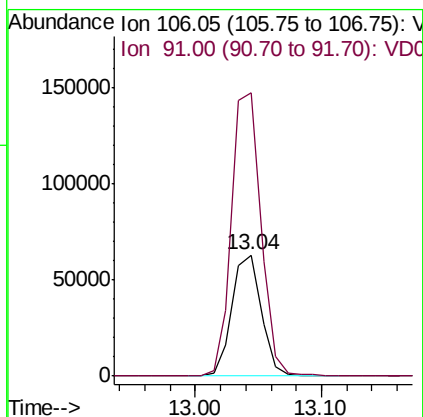
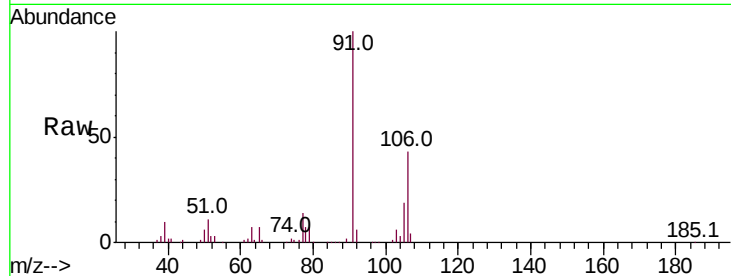




#69  
o-Xylene  
Concen: 8.219 ug/l  
RT: 13.04 min Scan# 1180  
Delta R.T. 0.00 min  
Lab File: VD063289.D  
Acq: 1 Aug 2019 12:23

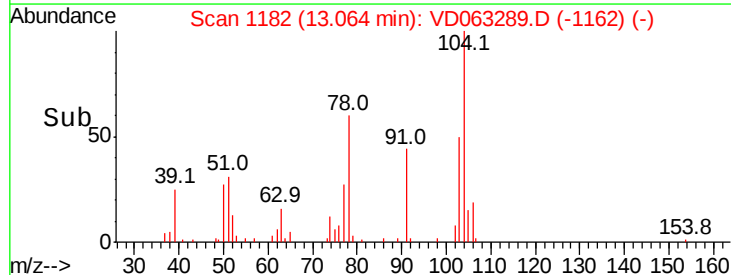
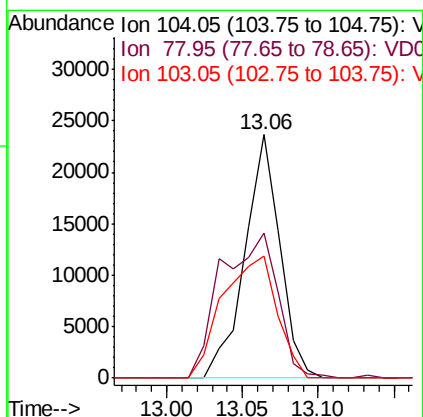
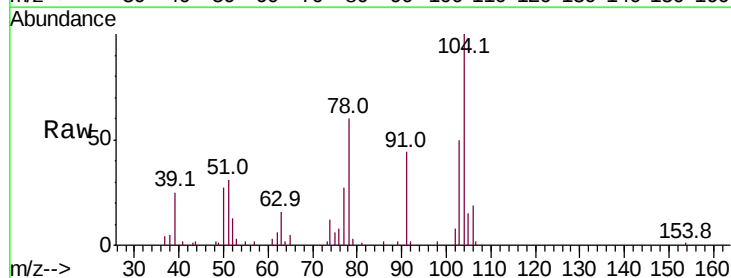
Instrument :  
MSVOA\_D  
ClientSampleID :  
WC-01

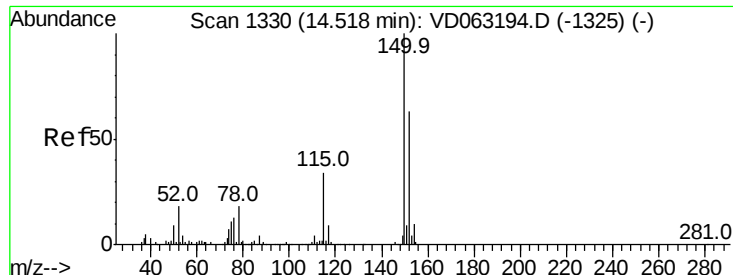
Tot Ion:106 Resp: 101251  
Ion Ratio Lower Upper  
106 100  
91 233.9 121.3 363.9



#70  
Styrene  
Concen: 1.752 ug/l  
RT: 13.06 min Scan# 1182  
Delta R.T. -0.01 min  
Lab File: VD063289.D  
Acq: 1 Aug 2019 12:23

Tgt Ion:104 Resp: 38278  
Ion Ratio Lower Upper  
104 100  
78 59.7 39.4 59.0#  
103 49.9 37.4 56.2



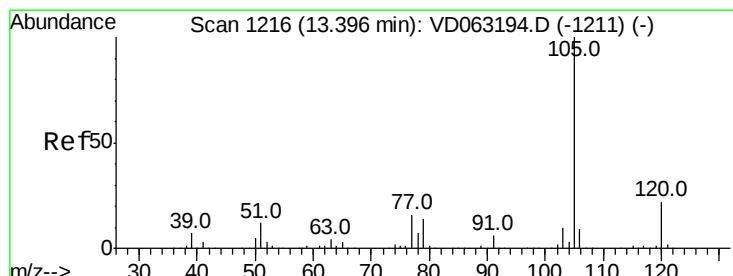
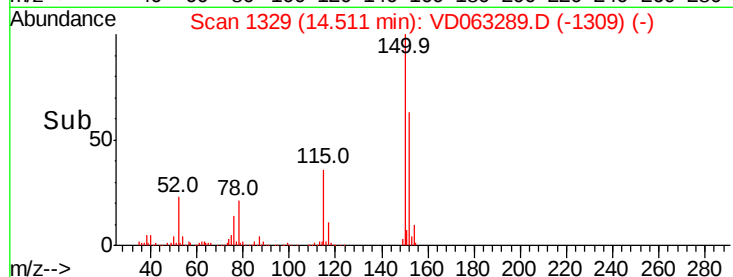
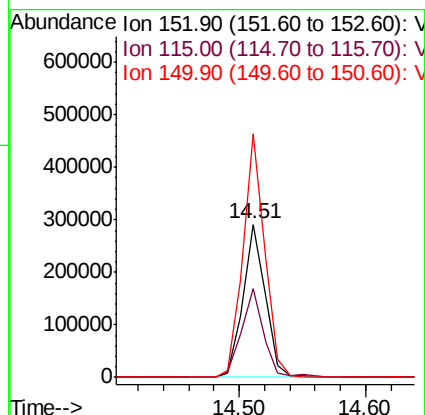
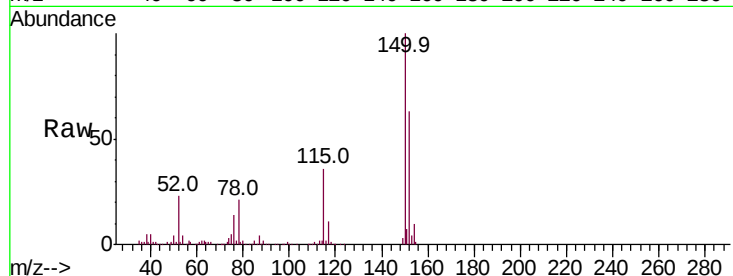


#72

1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 14.51 min Scan# 1329  
Delta R.T. -0.01 min  
Lab File: VD063289.D  
Acq: 1 Aug 2019 12:23

Instrument :  
MSVOA\_D  
ClientSampleId :  
WC-01

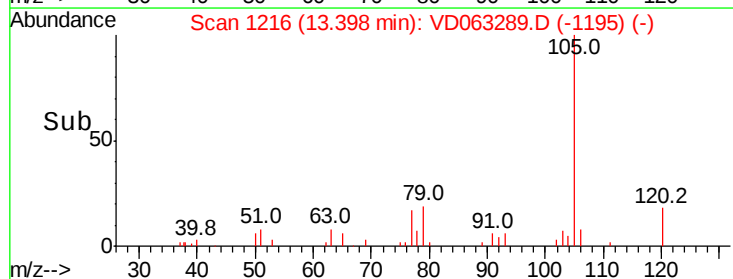
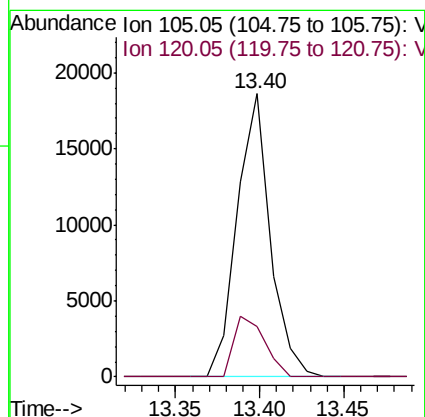
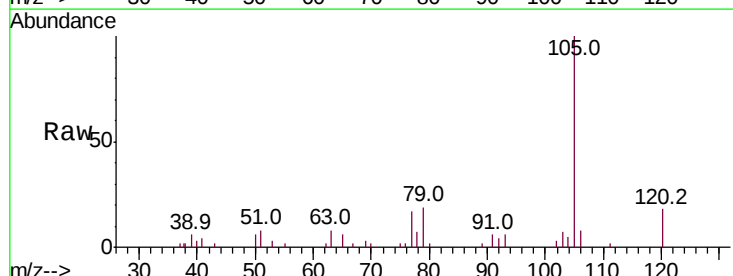
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 115     | 57.8  | 27.5  | 82.4  |
| 150     | 159.0 | 0.0   | 320.6 |

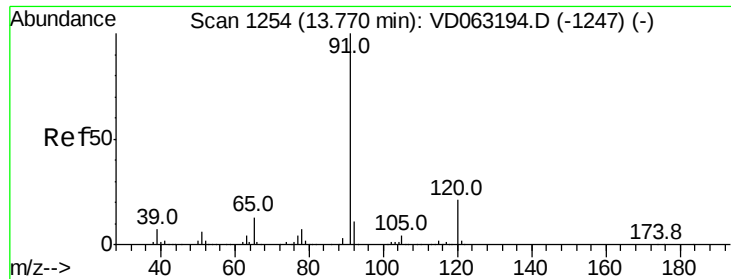


#73

Isopropylbenzene  
Concen: 1.148 ug/l  
RT: 13.40 min Scan# 1216  
Delta R.T. 0.00 min  
Lab File: VD063289.D  
Acq: 1 Aug 2019 12:23

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 105     | 100   |       |       |
| 120     | 17.8  | 11.1  | 33.3  |

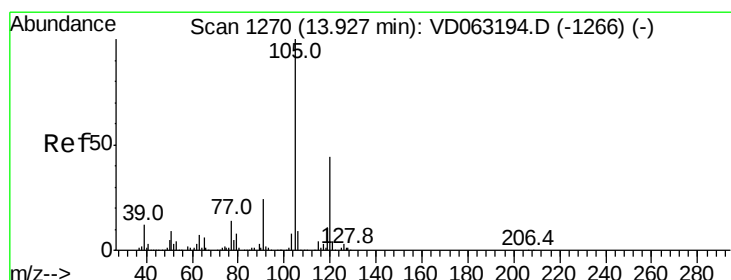
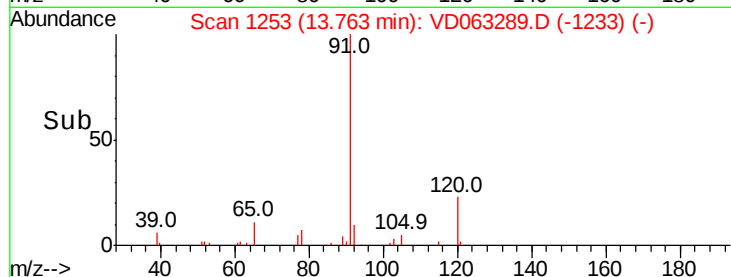
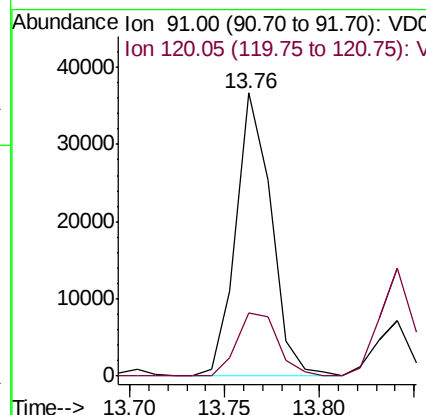
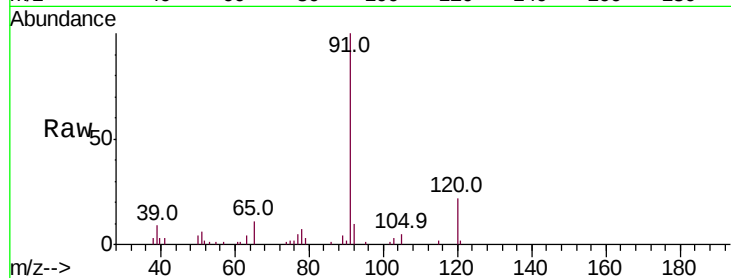




#78  
n-propylbenzene  
Concen: 1.796 ug/l  
RT: 13.76 min Scan# 1253  
Delta R.T. -0.01 min  
Lab File: VD063289.D  
Acq: 1 Aug 2019 12:23

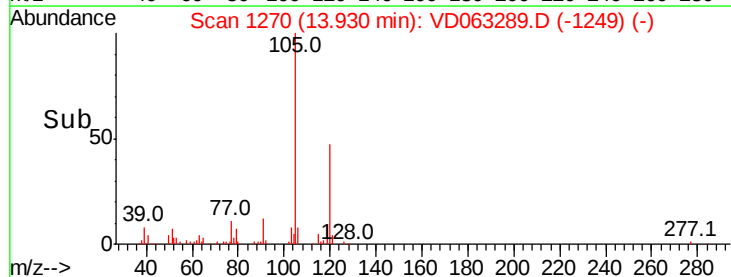
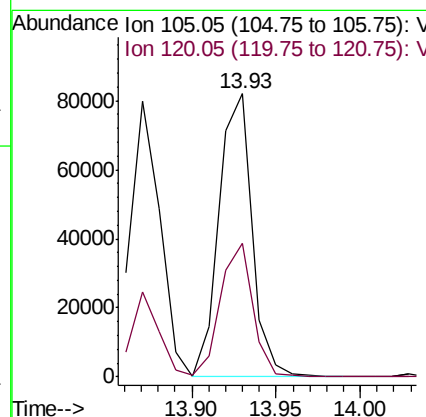
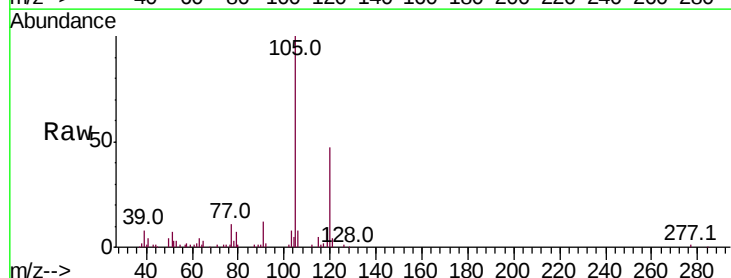
Instrument :  
MSVOA\_D  
ClientSampleId :  
WC-01

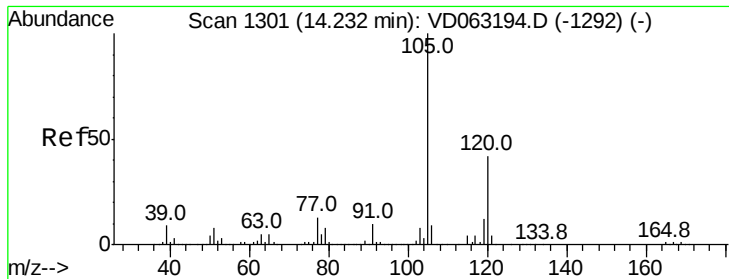
Tot Ion: 91 Resp: 47311  
Ion Ratio Lower Upper  
91 100  
120 22.4 10.7 32.1



#80  
1,3,5-Trimethylbenzene  
Concen: 5.860 ug/l  
RT: 13.93 min Scan# 1270  
Delta R.T. 0.00 min  
Lab File: VD063289.D  
Acq: 1 Aug 2019 12:23

Tgt Ion:105 Resp: 111880  
Ion Ratio Lower Upper  
105 100  
120 47.2 22.1 66.1

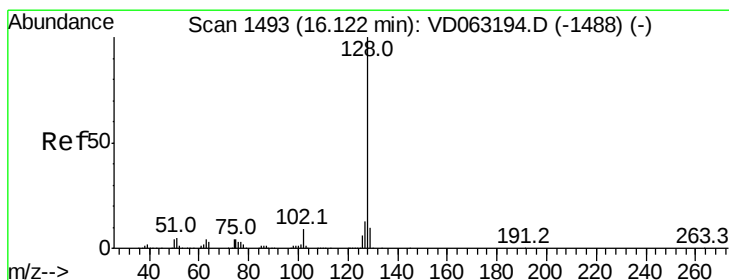
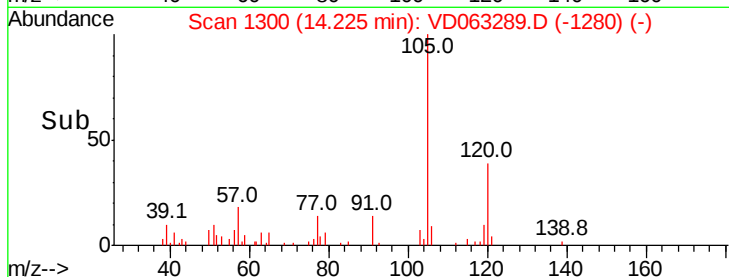
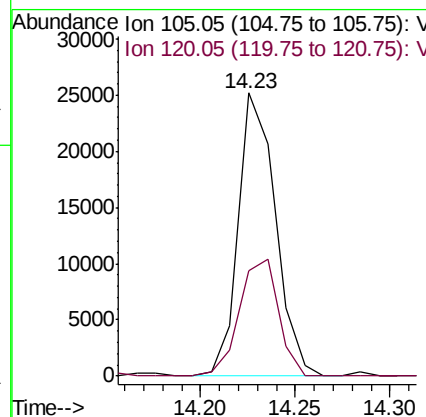
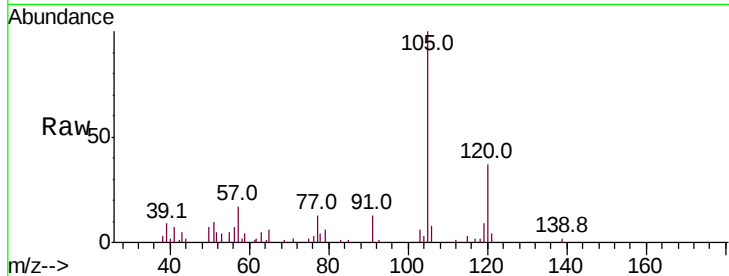




#84  
 1,2,4-Trimethylbenzene  
 Concen: 1.726 ug/l  
 RT: 14.23 min Scan# 1300  
 Delta R.T. -0.01 min  
 Lab File: VD063289.D  
 Acq: 1 Aug 2019 12:23

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 WC-01

Tot Ion:105 Resp: 34076  
 Ion Ratio Lower Upper  
 105 100  
 120 37.2 20.9 62.7



#95  
 Naphthalene  
 Concen: 5.460 ug/l  
 RT: 16.12 min Scan# 1492  
 Delta R.T. -0.01 min  
 Lab File: VD063289.D  
 Acq: 1 Aug 2019 12:23

Tgt Ion:128 Resp: 59565  
 Ion Ratio Lower Upper  
 128 100  
 127 12.3 10.2 15.4  
 129 11.7 7.8 11.8

