

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_W\DATA\VW112618\  
 Data File : VW007054.D  
 Acq On : 26 Nov 2018 18:06  
 Operator : VAY/AP  
 Sample : J5770-05  
 Misc : 6.09G/5ML/MSVOA\_W/SOIL  
 ALS Vial : 19 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 OR-02-112118-A

Quant Time: Nov 27 06:40:35 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\82W112118S.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Nov 21 03:23:02 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.95  | 168  | 119168   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.85  | 114  | 187465   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.63 | 117  | 157764   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.56 | 152  | 67591    | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units   | Dev(Min) |
|-----------------------------|-------|------|----------|-------|---------|----------|
| 33) 1,2-Dichloroethane-d4   | 8.31  | 65   | 63491    | 54.42 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 108.84% |          |
| 35) Dibromofluoromethane    | 7.89  | 113  | 52859    | 49.93 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 99.86%  |          |
| 50) Toluene-d8              | 10.32 | 98   | 177762   | 38.02 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 76.04%  |          |
| 62) 4-Bromofluorobenzene    | 12.62 | 95   | 76548    | 41.61 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 83.22%  |          |

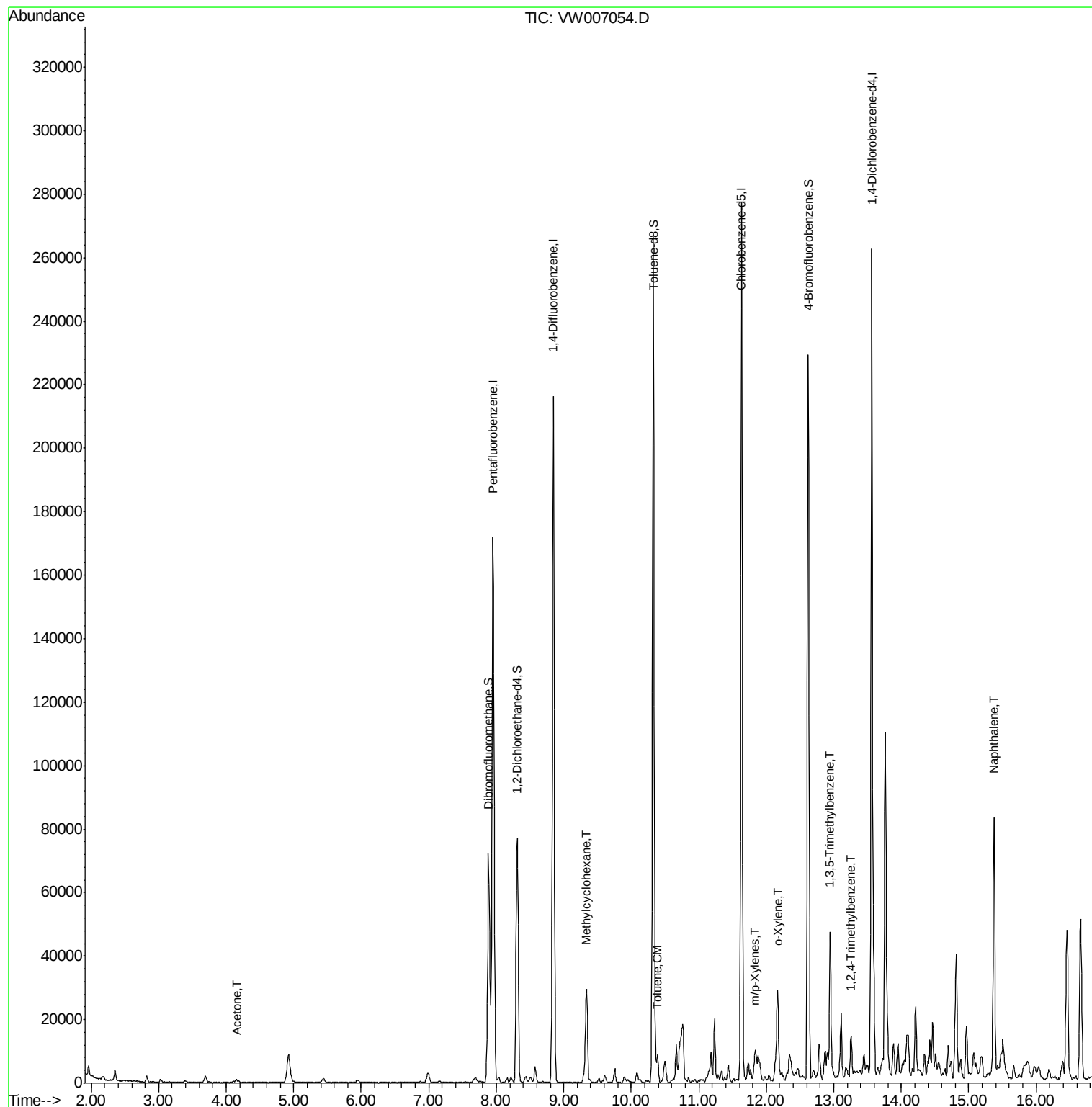
| Target Compounds           | R.T.  | QIon | Response | Conc  | Units | Qvalue |
|----------------------------|-------|------|----------|-------|-------|--------|
| 16) Acetone                | 4.16  | 43   | 1857     | 10.96 | ug/l  | # 63   |
| 39) Methylcyclohexane      | 9.34  | 83   | 13019    | 5.68  | ug/l  | 97     |
| 52) Toluene                | 10.39 | 92   | 3735     | 1.11  | ug/l  | 98     |
| 68) m/p-Xylenes            | 11.84 | 106  | 2566     | 1.08  | ug/l  | 97     |
| 69) o-Xylene               | 12.17 | 106  | 7295     | 3.26  | ug/l  | 98     |
| 80) 1,3,5-Trimethylbenzene | 12.94 | 105  | 22176    | 4.88  | ug/l  | 100    |
| 84) 1,2,4-Trimethylbenzene | 13.26 | 105  | 7420     | 1.64  | ug/l  | 96     |
| 95) Naphthalene            | 15.38 | 128  | 74498    | 30.84 | ug/l  | 99     |

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

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\82W112118S.M  
Quant Title : SW846 8260  
QLast Update : Wed Nov 21 03:23:02 2018  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 7.95 min Scan# 992

Delta R.T. 0.00 min

Lab File: VW007054.D

Acq: 26 Nov 2018 18:06

Instrument :

MSVOA\_W

ClientSampleId :

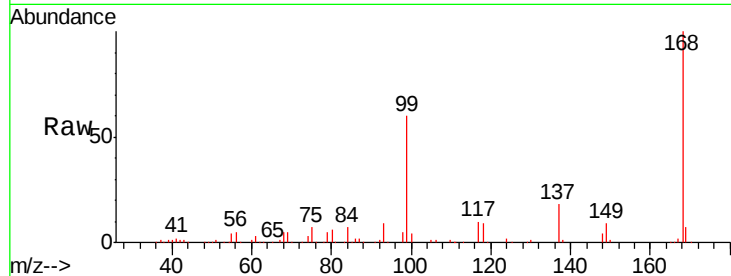
OR-02-112118-A

Tgt Ion:168 Resp: 119168

Ion Ratio Lower Upper

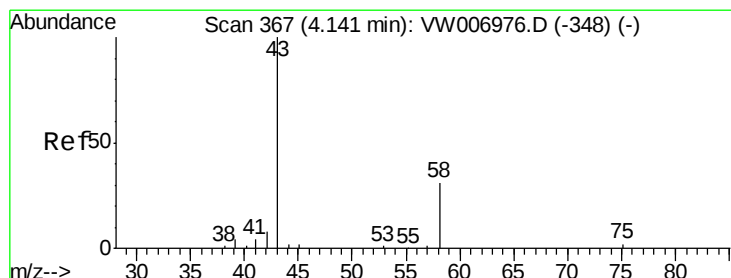
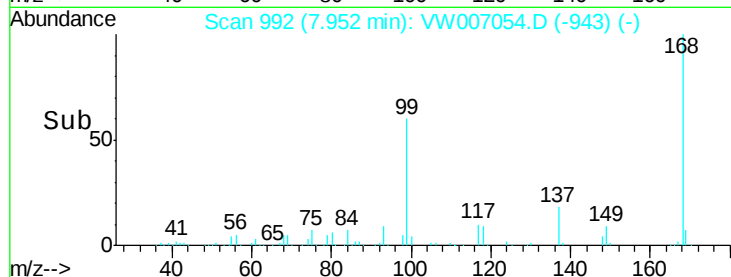
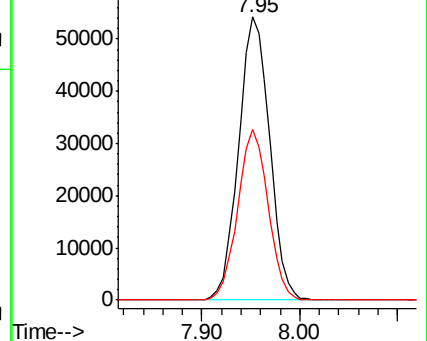
168 100

99 60.1 48.2 72.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW



#16

Acetone

Concen: 10.96 ug/l

RT: 4.16 min Scan# 370

Delta R.T. 0.02 min

Lab File: VW007054.D

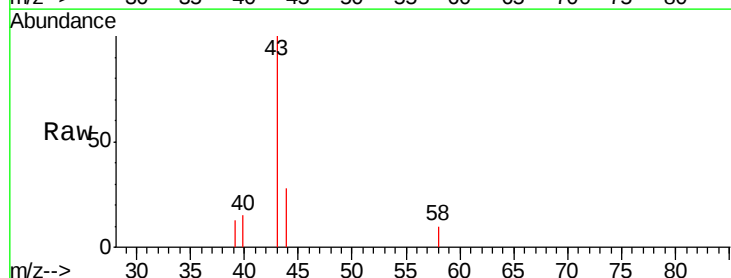
Acq: 26 Nov 2018 18:06

Tgt Ion: 43 Resp: 1857

Ion Ratio Lower Upper

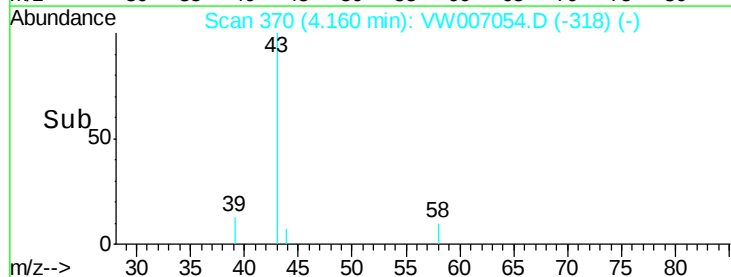
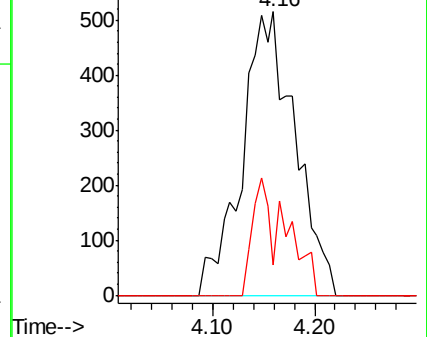
43 100

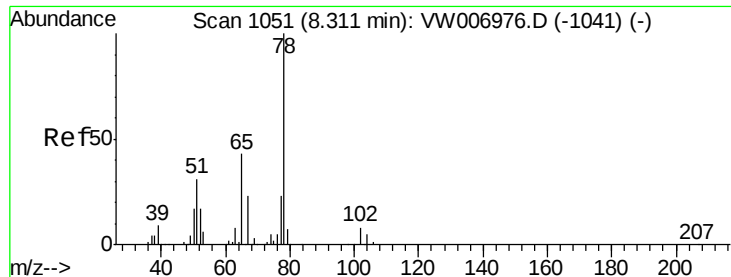
58 10.5 24.8 37.2#



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW





#33

1,2-Dichloroethane-d4

Concen: 54.42 ug/l

RT: 8.31 min Scan# 1051

Delta R.T. 0.00 min

Lab File: VW007054.D

Acq: 26 Nov 2018 18:06

Instrument :

MSVOA\_W

ClientSampleId :

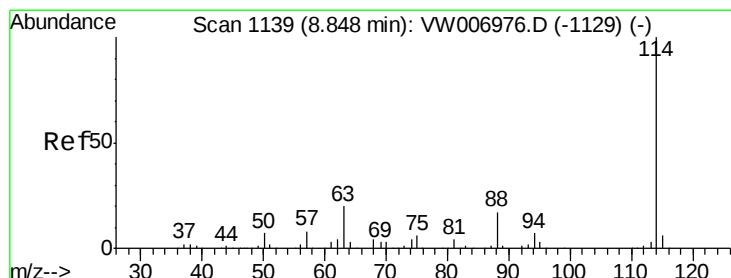
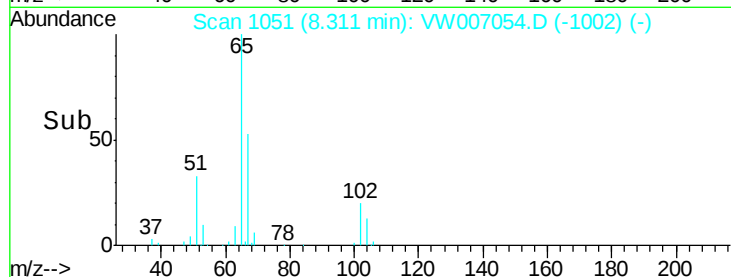
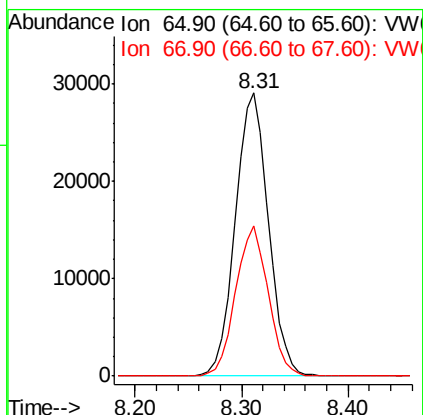
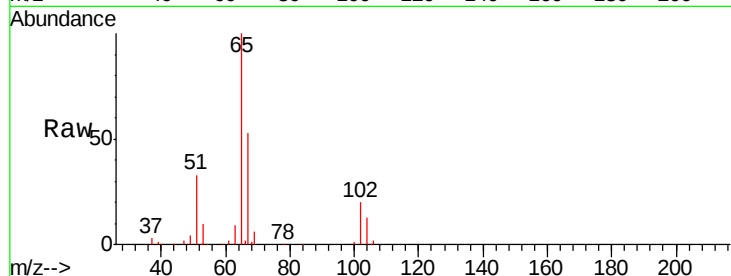
OR-02-112118-A

Tgt Ion: 65 Resp: 63491

Ion Ratio Lower Upper

65 100

67 52.0 0.0 106.2



#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 8.85 min Scan# 1139

Delta R.T. 0.00 min

Lab File: VW007054.D

Acq: 26 Nov 2018 18:06

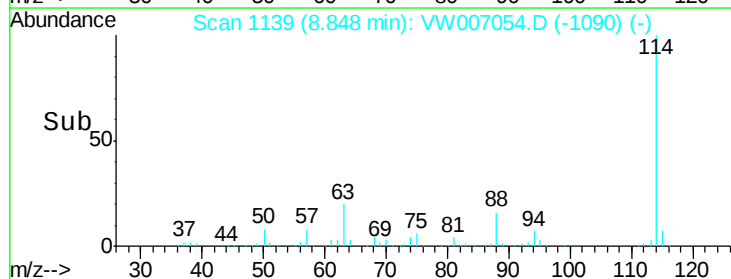
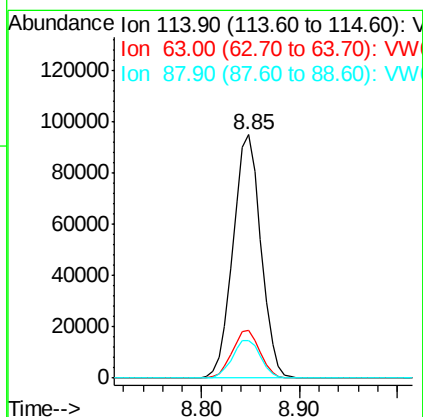
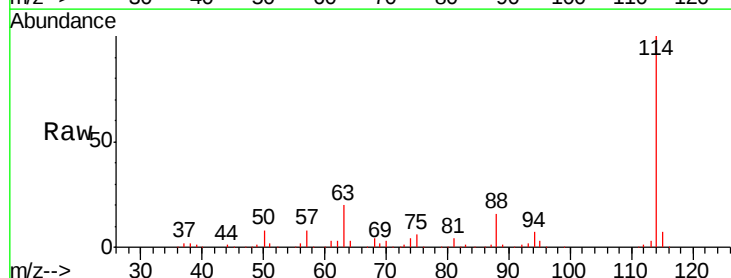
Tgt Ion: 114 Resp: 187465

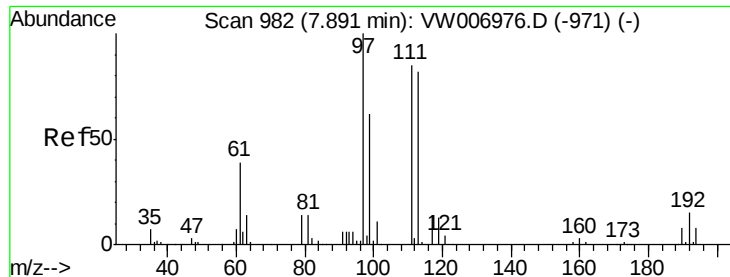
Ion Ratio Lower Upper

114 100

63 19.8 0.0 39.4

88 15.7 0.0 34.2

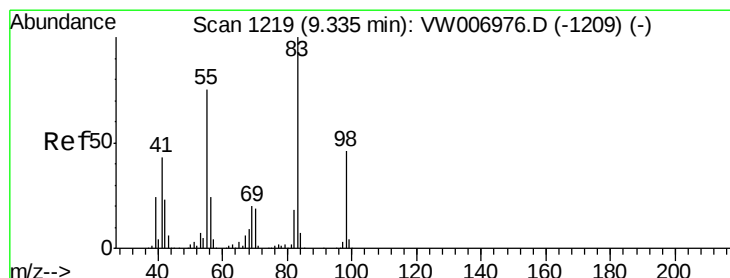
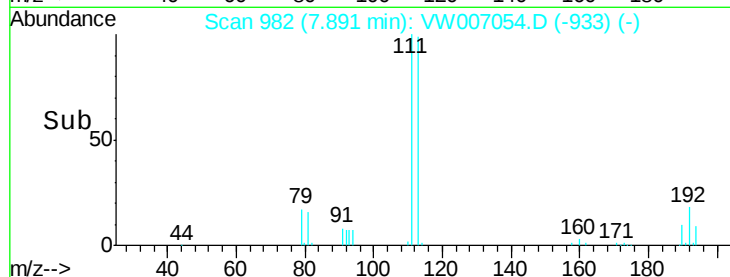
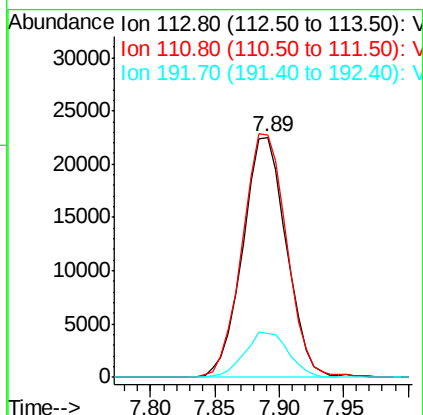
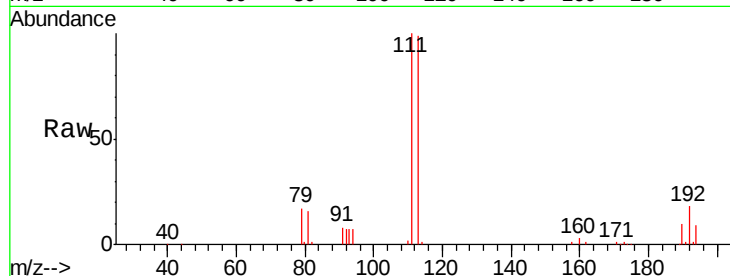




#35  
Dibromofluoromethane  
Concen: 49.93 ug/l  
RT: 7.89 min Scan# 982  
Delta R.T. 0.00 min  
Lab File: VW007054.D  
Acq: 26 Nov 2018 18:06

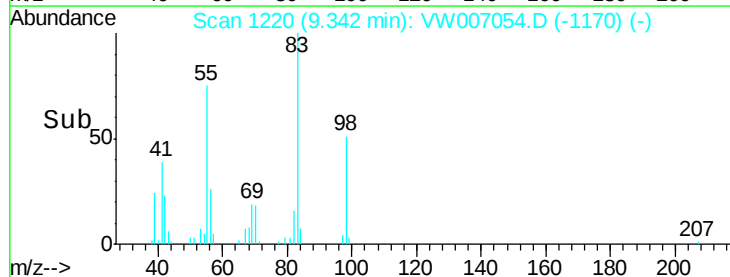
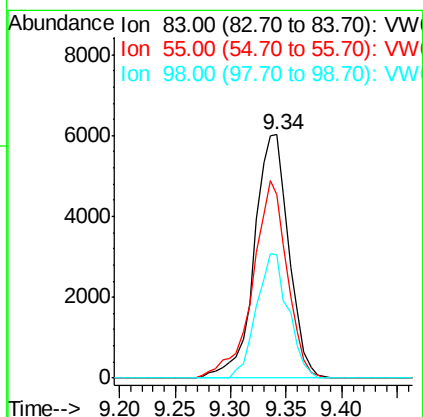
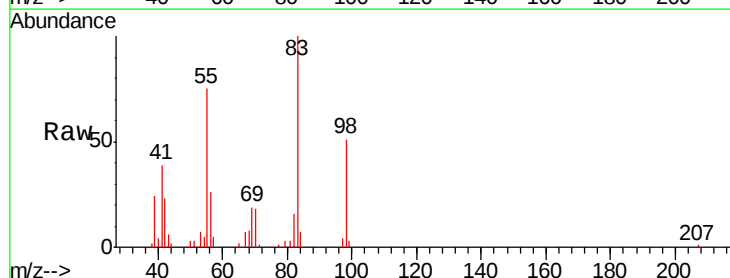
Instrument :  
MSVOA\_W  
ClientSampleId :  
OR-02-112118-A

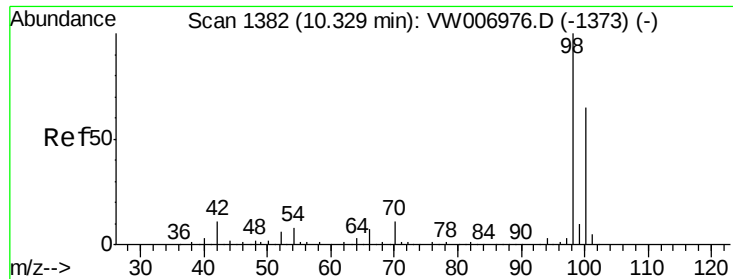
Tgt Ion: 113 Resp: 52859  
Ion Ratio Lower Upper  
113 100  
111 103.5 81.0 121.6  
192 19.0 15.0 22.6



#39  
Methylcyclohexane  
Concen: 5.68 ug/l  
RT: 9.34 min Scan# 1220  
Delta R.T. 0.01 min  
Lab File: VW007054.D  
Acq: 26 Nov 2018 18:06

Tgt Ion: 83 Resp: 13019  
Ion Ratio Lower Upper  
83 100  
55 75.3 59.6 89.4  
98 50.6 37.1 55.7

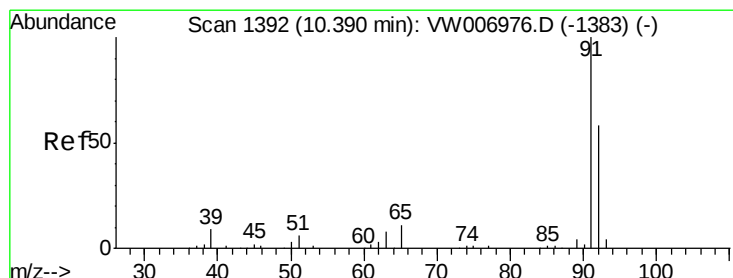
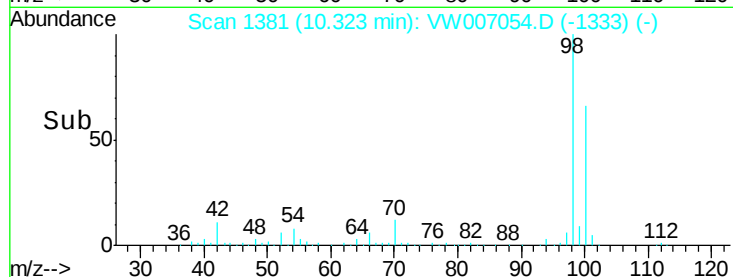
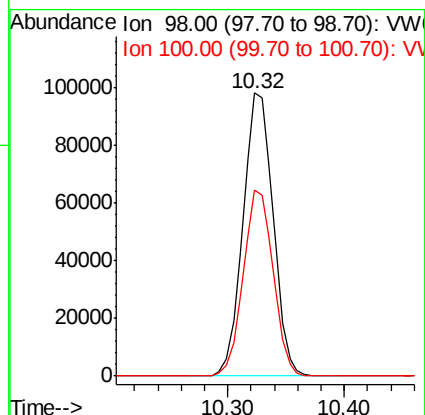
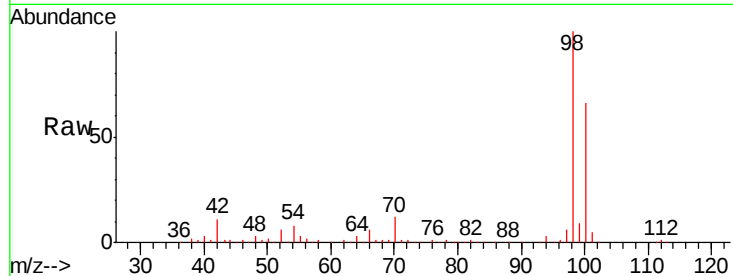




#50  
Toluene-d8  
Concen: 38.02 ug/l  
RT: 10.32 min Scan# 1381  
Delta R.T. -0.01 min  
Lab File: VW007054.D  
Acq: 26 Nov 2018 18:06

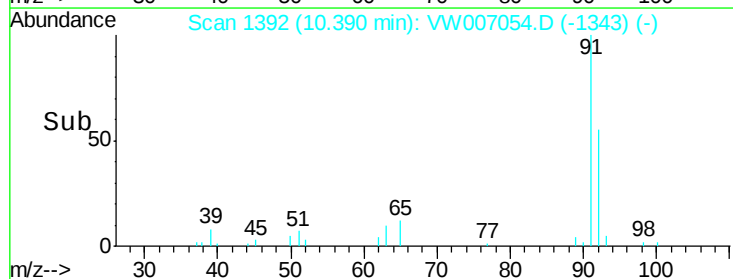
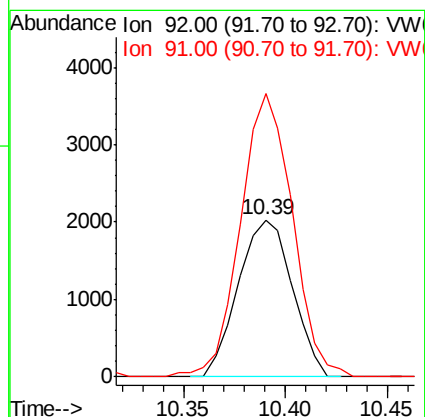
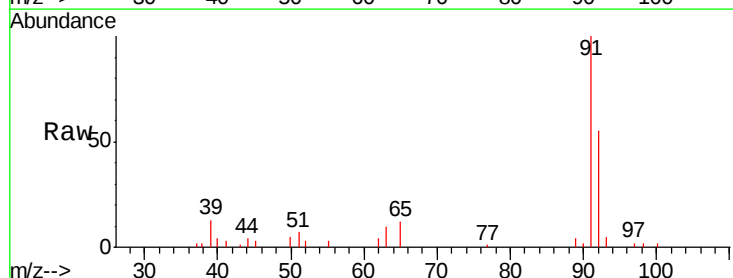
Instrument :  
MSVOA\_W  
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OR-02-112118-A

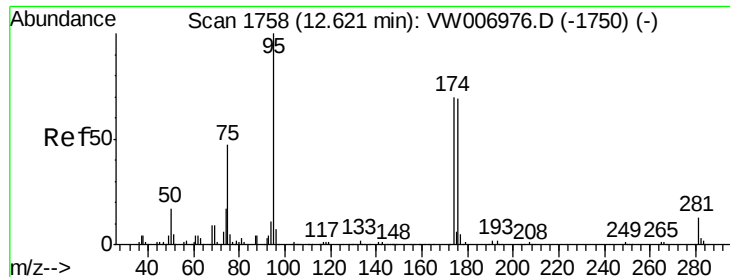
Tgt Ion: 98 Resp: 177762  
Ion Ratio Lower Upper  
98 100  
100 65.3 52.2 78.2



#52  
Toluene  
Concen: 1.11 ug/l  
RT: 10.39 min Scan# 1392  
Delta R.T. 0.00 min  
Lab File: VW007054.D  
Acq: 26 Nov 2018 18:06

Tgt Ion: 92 Resp: 3735  
Ion Ratio Lower Upper  
92 100  
91 173.8 137.3 205.9

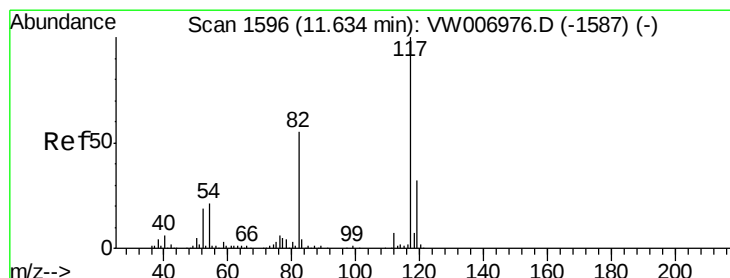
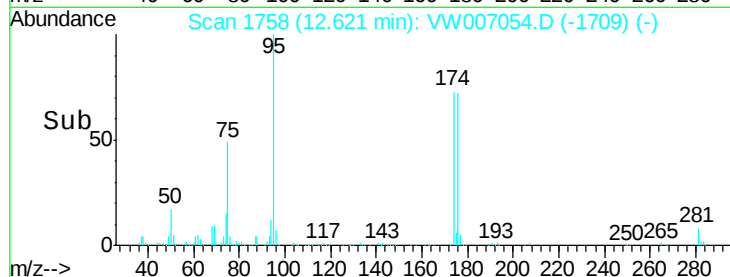
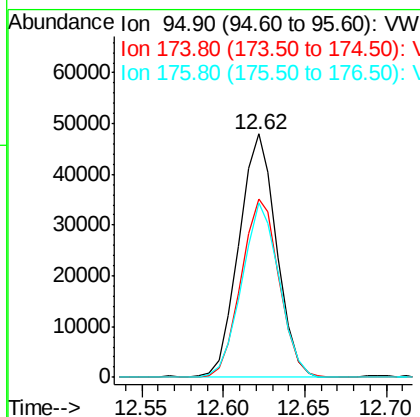
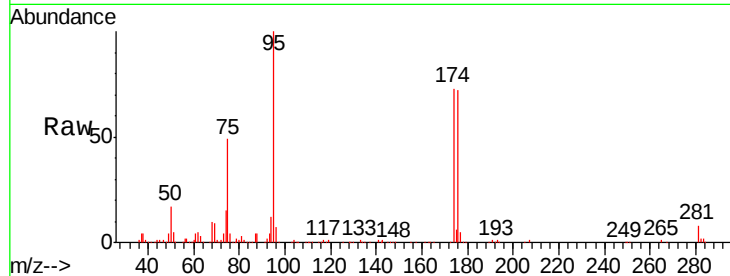




#62  
4-Bromofluorobenzene  
Concen: 41.61 ug/l  
RT: 12.62 min Scan# 1758  
Delta R.T. 0.00 min  
Lab File: VW007054.D  
Acq: 26 Nov 2018 18:06

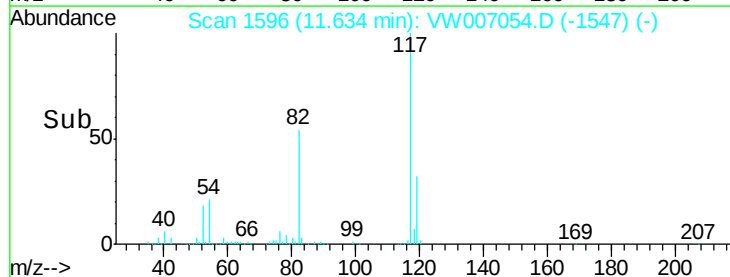
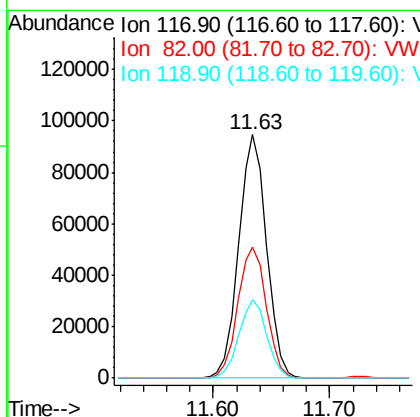
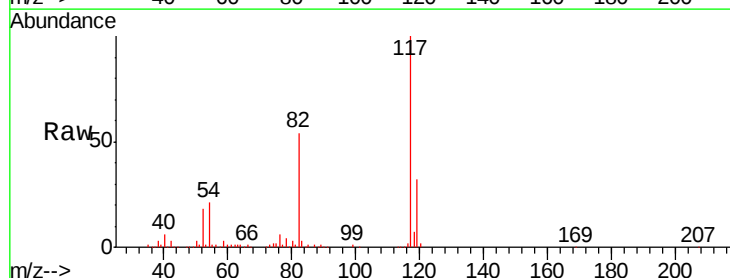
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MSVOA\_W  
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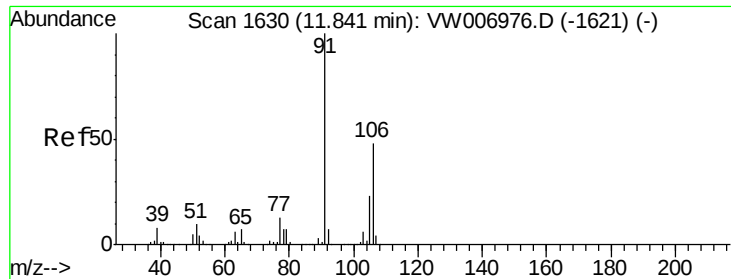
Tgt Ion: 95 Resp: 76548  
Ion Ratio Lower Upper  
95 100  
174 74.3 0.0 143.6  
176 71.7 0.0 140.4



#63  
Chlorobenzene-d5  
Concen: 50.00 ug/l  
RT: 11.63 min Scan# 1596  
Delta R.T. 0.00 min  
Lab File: VW007054.D  
Acq: 26 Nov 2018 18:06

Tgt Ion: 117 Resp: 157764  
Ion Ratio Lower Upper  
117 100  
82 54.0 44.2 66.2  
119 32.0 25.9 38.9

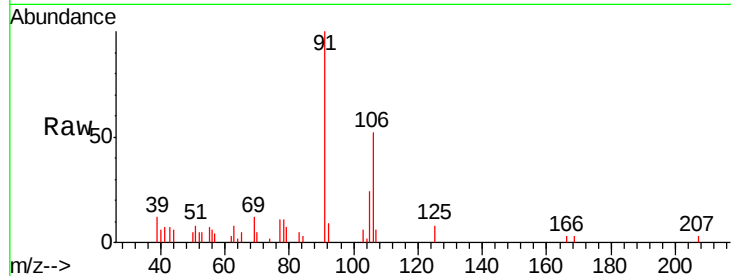




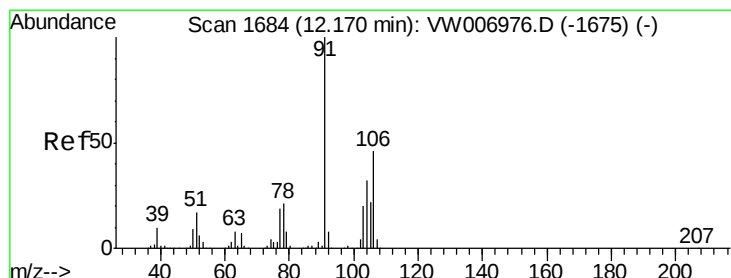
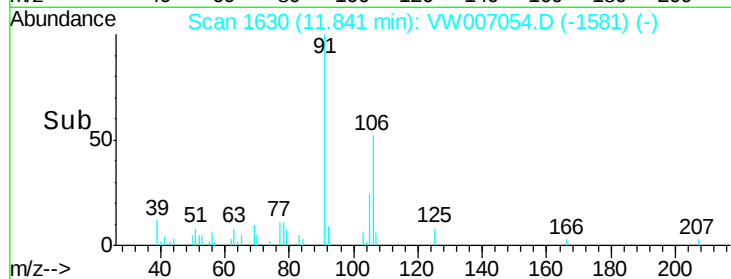
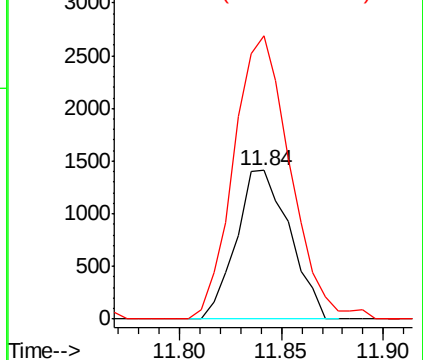
#68  
m/p-Xylenes  
Concen: 1.08 ug/l  
RT: 11.84 min Scan# 1630  
Delta R.T. 0.00 min  
Lab File: VW007054.D  
Acq: 26 Nov 2018 18:06

Instrument :  
MSVOA\_W  
ClientSampleId :  
OR-02-112118-A

Tgt Ion:106 Resp: 2566  
Ion Ratio Lower Upper  
106 100  
91 201.9 164.8 247.2

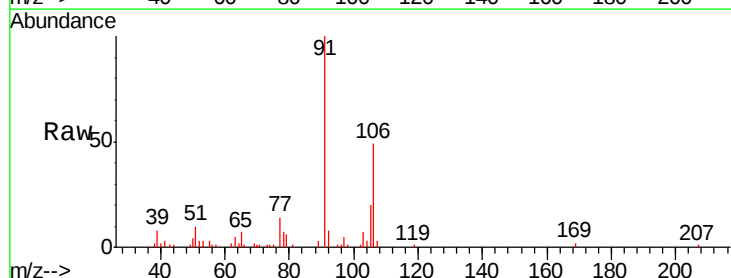


Abundance Ion 106.00 (105.70 to 106.70): V  
Ion 91.00 (90.70 to 91.70): VW

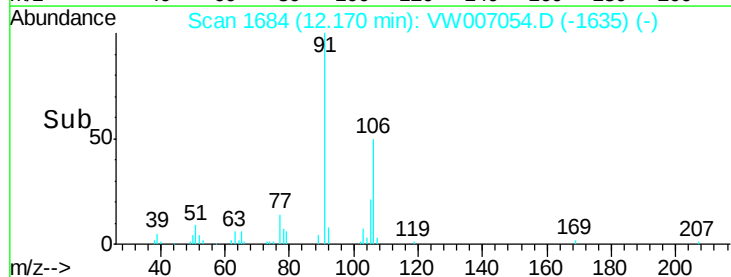
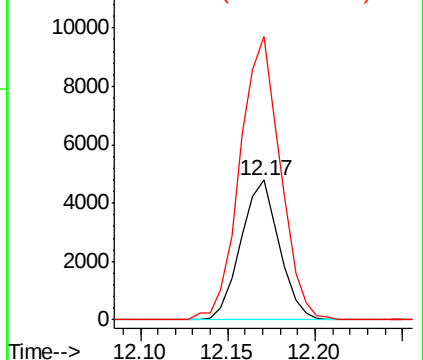


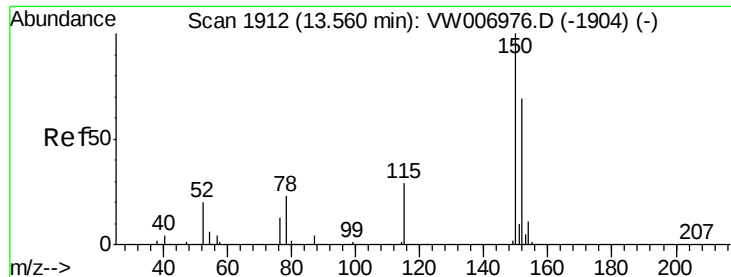
#69  
o-Xylene  
Concen: 3.26 ug/l  
RT: 12.17 min Scan# 1684  
Delta R.T. 0.00 min  
Lab File: VW007054.D  
Acq: 26 Nov 2018 18:06

Tgt Ion:106 Resp: 7295  
Ion Ratio Lower Upper  
106 100  
91 213.4 107.9 323.8



Abundance Ion 106.00 (105.70 to 106.70): V  
Ion 91.00 (90.70 to 91.70): VW





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 13.56 min Scan# 1912

Delta R.T. 0.00 min

Lab File: VW007054.D

Acq: 26 Nov 2018 18:06

Instrument :

MSVOA\_W

ClientSampleId :

OR-02-112118-A

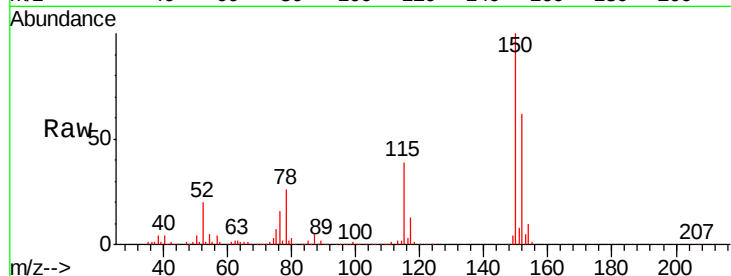
Tgt Ion:152 Resp: 67591

Ion Ratio Lower Upper

152 100

115 61.9 31.4 94.2

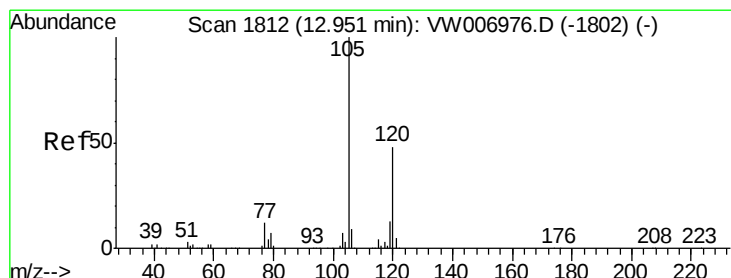
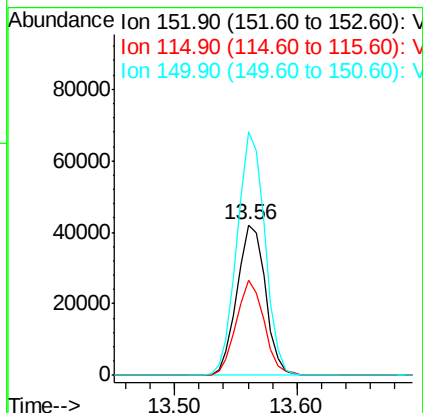
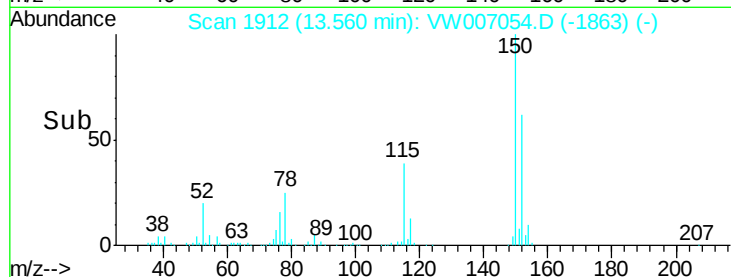
150 158.7 0.0 353.4



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



#80

1,3,5-Trimethylbenzene

Concen: 4.88 ug/l

RT: 12.94 min Scan# 1811

Delta R.T. -0.01 min

Lab File: VW007054.D

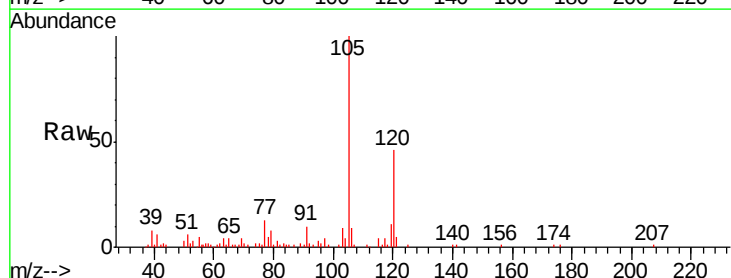
Acq: 26 Nov 2018 18:06

Tgt Ion:105 Resp: 22176

Ion Ratio Lower Upper

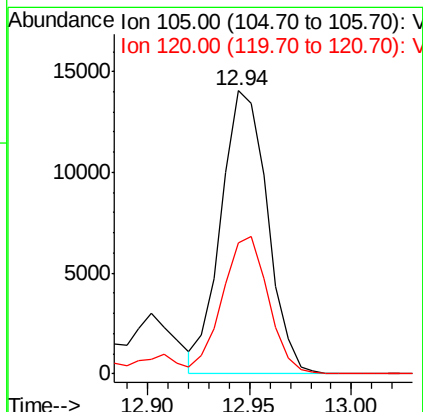
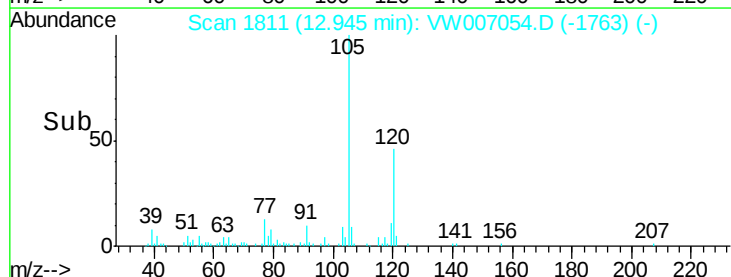
105 100

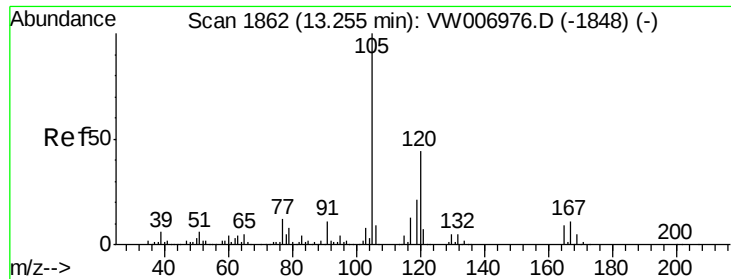
120 47.8 23.8 71.2



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#84

1,2,4-Trimethylbenzene

Concen: 1.64 ug/l

RT: 13.26 min Scan# 1862

Delta R.T. 0.00 min

Lab File: VW007054.D

Acq: 26 Nov 2018 18:06

Instrument :

MSVOA\_W

ClientSampleId :

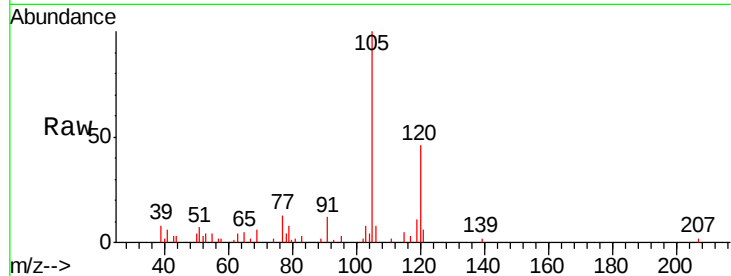
OR-02-112118-A

Tgt Ion:105 Resp: 7420

Ion Ratio Lower Upper

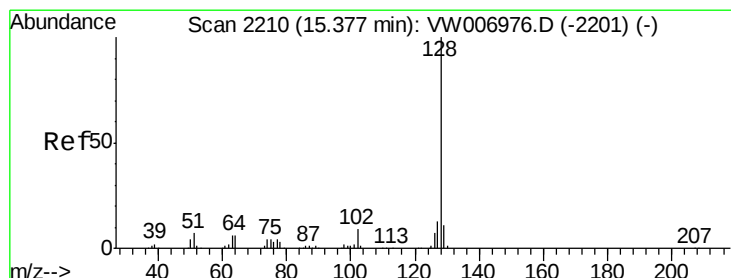
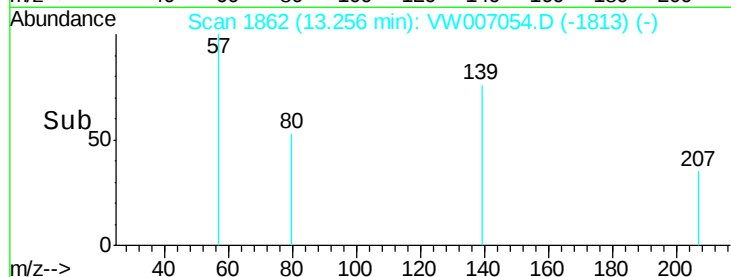
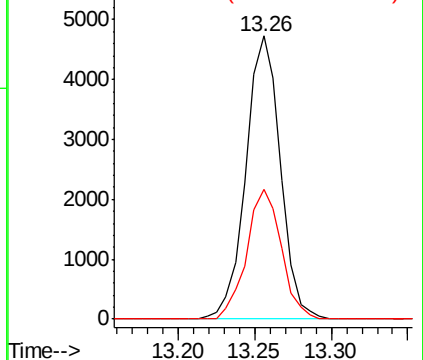
105 100

120 45.8 21.8 65.3



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#95

Naphthalene

Concen: 30.84 ug/l

RT: 15.38 min Scan# 2210

Delta R.T. 0.00 min

Lab File: VW007054.D

Acq: 26 Nov 2018 18:06

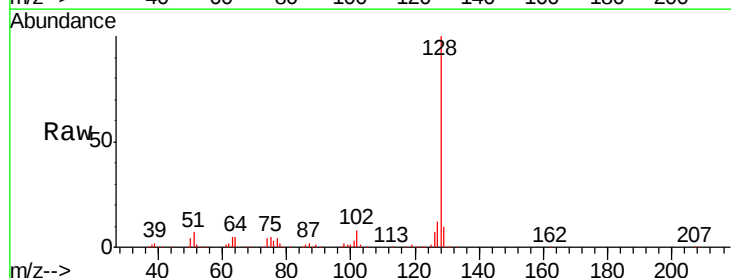
Tgt Ion:128 Resp: 74498

Ion Ratio Lower Upper

128 100

127 12.7 10.5 15.7

129 10.4 8.7 13.1



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

