

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_D\DATA\VD040919\  
 Data File : VD061689.D  
 Acq On : 9 Apr 2019 21:52  
 Operator : VA/AP  
 Sample : K2316-06  
 Misc : 5.10g/5ml/MSVOA\_D/SOIL  
 ALS Vial : 21 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 20190174-AMND-COMP-CS-1

Quant Time: Apr 15 06:01:56 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D040619S.M  
 Quant Title : SW846 8260  
 QLast Update : Mon Apr 08 10:04:03 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.08  | 168  | 462084   | 50.00 | ug/l  | 0.04     |
| 34) 1,4-Difluorobenzene    | 8.25  | 114  | 756672   | 50.00 | ug/l  | 0.04     |
| 63) Chlorobenzene-d5       | 12.39 | 117  | 491826   | 50.00 | ug/l  | 0.02     |
| 72) 1,4-Dichlorobenzene-d4 | 14.53 | 152  | 151032   | 50.00 | ug/l  | 0.01     |

|                             |        |     |          |       |         |      |
|-----------------------------|--------|-----|----------|-------|---------|------|
| System Monitoring Compounds |        |     |          |       |         |      |
| 33) 1,2-Dichloroethane-d4   | 7.49   | 65  | 173758   | 49.61 | ug/l    | 0.03 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 99.22%  |      |
| 35) Dibromofluoromethane    | 6.95   | 113 | 5584     | 1.07  | ug/l    | 0.03 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 2.14%   |      |
| 50) Toluene-d8              | 10.44  | 98  | 660473   | 50.15 | ug/l    | 0.03 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 100.30% |      |
| 62) 4-Bromofluorobenzene    | 13.57  | 95  | 207780   | 43.71 | ug/l    | 0.01 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 87.42%  |      |

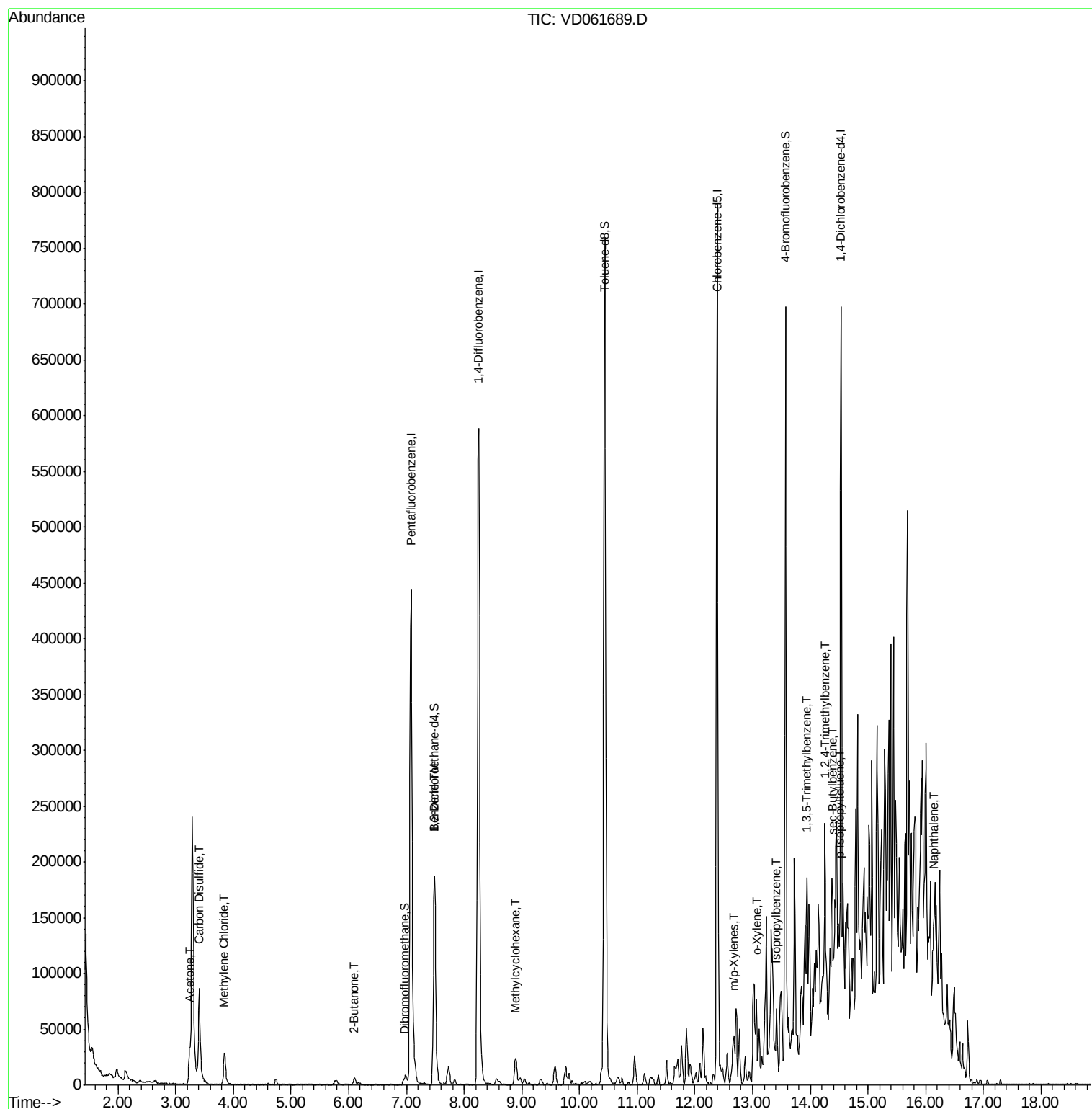
| Target Compounds           | R.T.  | QIon | Response | Conc   | Units  | Qvalue |
|----------------------------|-------|------|----------|--------|--------|--------|
| 16) Acetone                | 3.24  | 43   | 63219    | 60.379 | ug/l # | 88     |
| 17) Carbon Disulfide       | 3.41  | 76   | 155307   | 9.922  | ug/l   | 100    |
| 20) Methylene Chloride     | 3.84  | 84   | 20784    | 3.498  | ug/l   | 97     |
| 25) 2-Butanone             | 6.10  | 43   | 14873    | 12.322 | ug/l # | 83     |
| 39) Methylcyclohexane      | 8.89  | 83   | 14622    | 2.151  | ug/l   | 96     |
| 40) Benzene                | 7.49  | 78   | 22691    | 1.420  | ug/l # | 83     |
| 68) m/p-Xylenes            | 12.68 | 106  | 6573     | 1.148  | ug/l   | 92     |
| 69) o-Xylene               | 13.07 | 106  | 11745    | 2.125  | ug/l   | 99     |
| 73) Isopropylbenzene       | 13.42 | 105  | 19523    | 1.940  | ug/l   | 90     |
| 80) 1,3,5-Trimethylbenzene | 13.94 | 105  | 42660    | 5.341  | ug/l   | 100    |
| 84) 1,2,4-Trimethylbenzene | 14.25 | 105  | 63185    | 7.838  | ug/l   | 96     |
| 85) sec-Butylbenzene       | 14.38 | 105  | 34298    | 3.296  | ug/l   | 97     |
| 86) p-Isopropyltoluene     | 14.50 | 119  | 26959    | 2.987  | ug/l   | 98     |
| 95) Naphthalene            | 16.14 | 128  | 29518    | 8.838  | ug/l # | 92     |

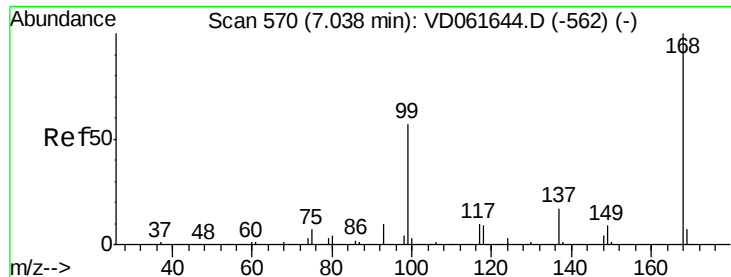
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA\_D\DATA\VD040919\  
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Sample : K2316-06  
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ALS Vial : 21 Sample Multiplier: 1

Instrument :  
MSVOA\_D  
ClientSampleId :  
20190174-AMND-COMP-CS-1

Quant Time: Apr 15 06:01:56 2019  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_D\METHOD\82D040619S.M  
Quant Title : SW846 8260  
QLast Update : Mon Apr 08 10:04:03 2019  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.08 min Scan# 575

Delta R.T. 0.04 min

Lab File: VD061689.D

Acq: 9 Apr 2019 21:52

Instrument :

MSVOA\_D

ClientSampleId :

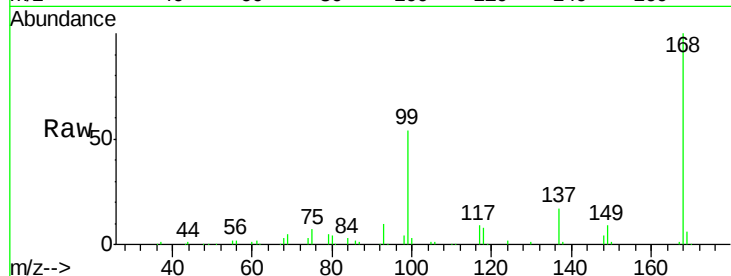
20190174-AMND-COMP-CS-1

Tgt Ion:168 Resp: 462084

Ion Ratio Lower Upper

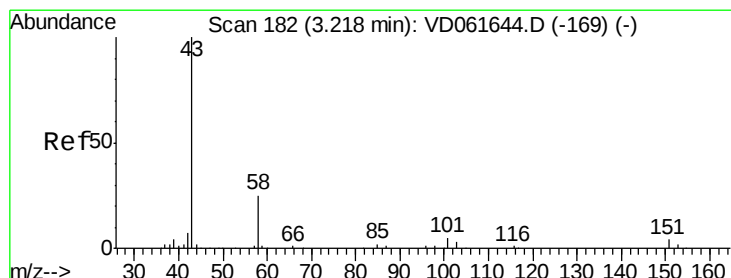
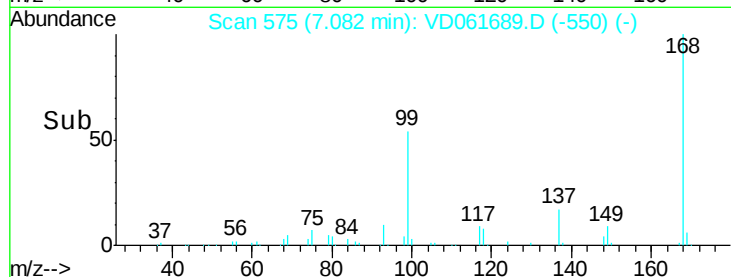
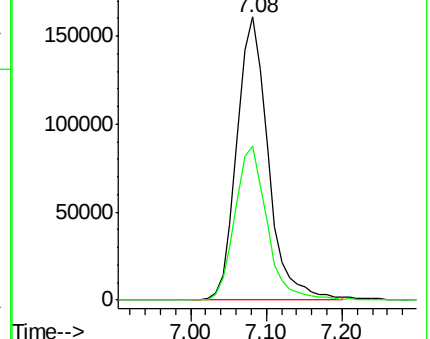
168 100

99 54.3 46.8 70.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC



#16

Acetone

Concen: 60.379 ug/l

RT: 3.24 min Scan# 185

Delta R.T. 0.02 min

Lab File: VD061689.D

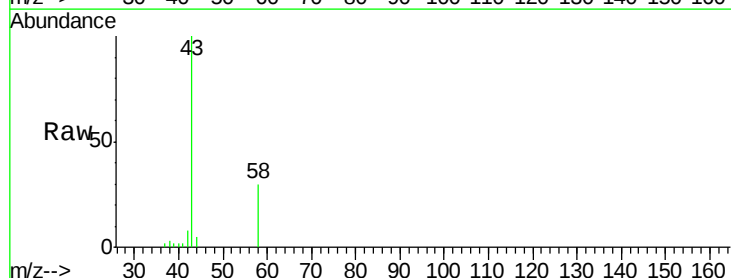
Acq: 9 Apr 2019 21:52

Tgt Ion: 43 Resp: 63219

Ion Ratio Lower Upper

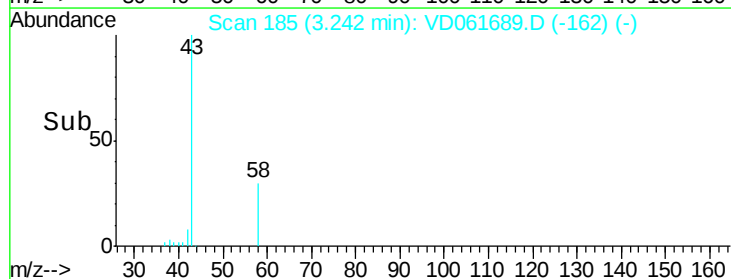
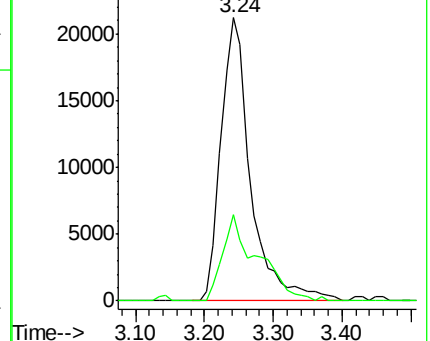
43 100

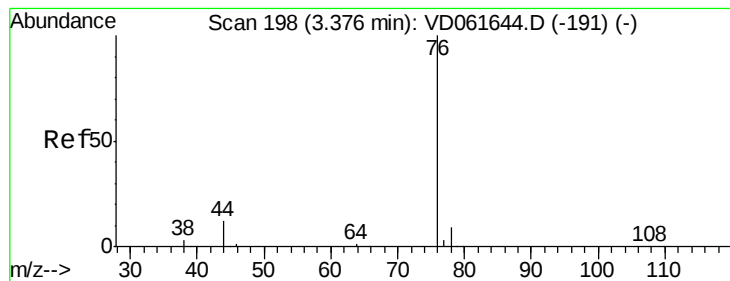
58 30.5 19.7 29.5#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC





#17

Carbon Disulfide

Concen: 9.922 ug/l

RT: 3.41 min Scan# 202

Delta R.T. 0.03 min

Lab File: VD061689.D

Acq: 9 Apr 2019 21:52

Instrument :

MSVOA\_D

ClientSampleId :

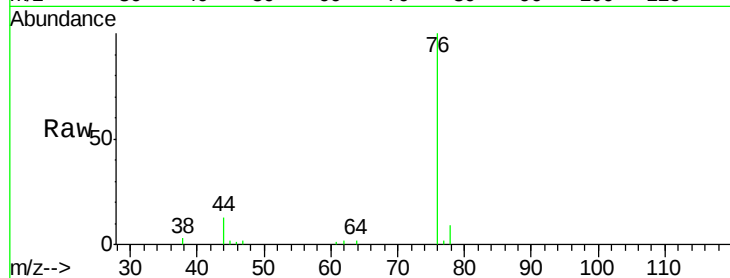
20190174-AMND-COMP-CS-1

Tgt Ion: 76 Resp: 155307

Ion Ratio Lower Upper

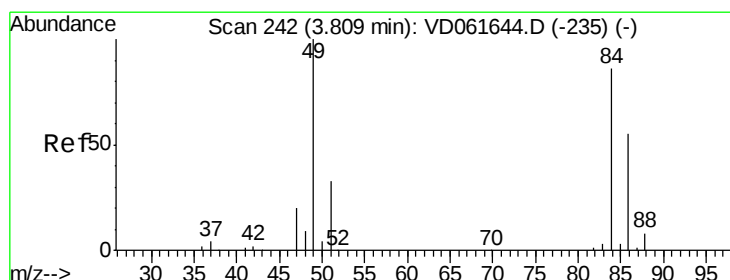
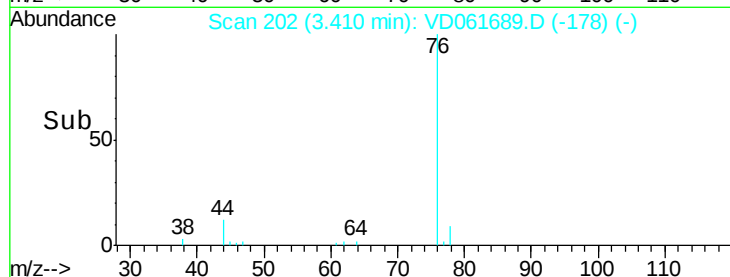
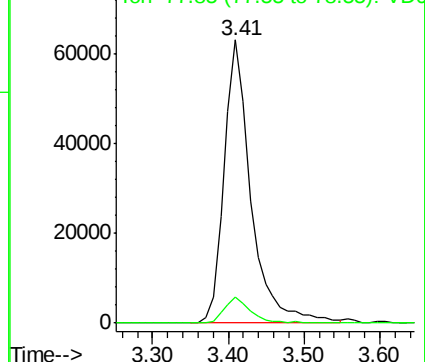
76 100

78 9.2 7.4 11.2



Abundance Ion 75.85 (75.55 to 76.55): VDC

Ion 77.85 (77.55 to 78.55): VDC



#20

Methylene Chloride

Concen: 3.498 ug/l

RT: 3.84 min Scan# 246

Delta R.T. 0.03 min

Lab File: VD061689.D

Acq: 9 Apr 2019 21:52

Tgt Ion: 84 Resp: 20784

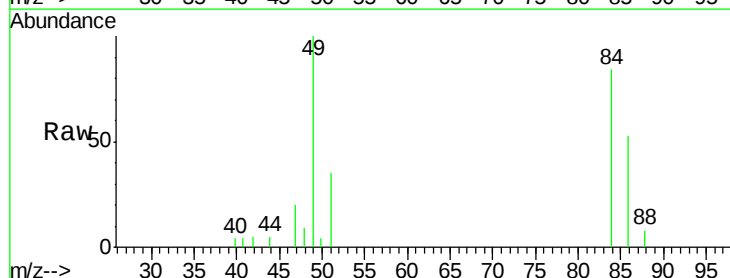
Ion Ratio Lower Upper

84 100

49 119.1 93.0 139.4

51 41.5 30.4 45.6

86 63.1 51.0 76.4

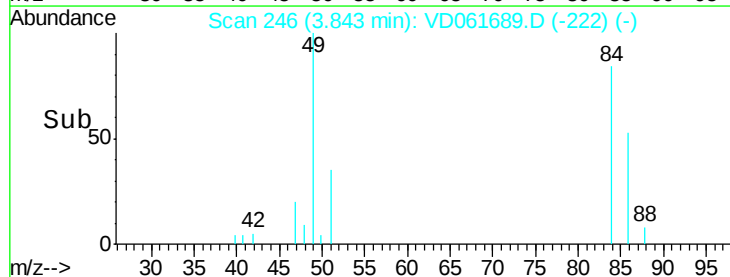
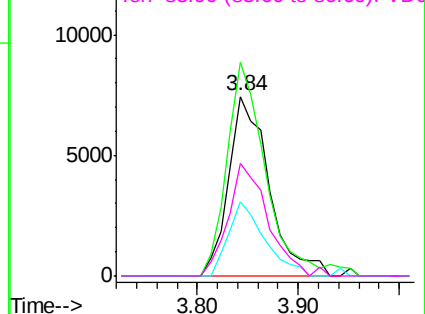


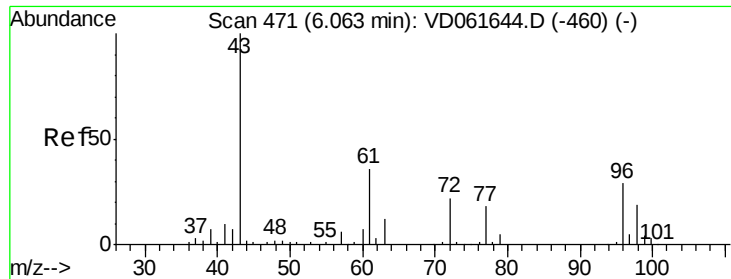
Abundance Ion 83.95 (83.65 to 84.65): VDC

Ion 48.90 (48.60 to 49.60): VDC

Ion 50.90 (50.60 to 51.60): VDC

Ion 85.90 (85.60 to 86.60): VDC





#25

2-Butanone

Concen: 12.322 ug/l

RT: 6.10 min Scan# 475

Delta R.T. 0.03 min

Lab File: VD061689.D

Acq: 9 Apr 2019 21:52

Instrument :

MSVOA\_D

ClientSampleId :

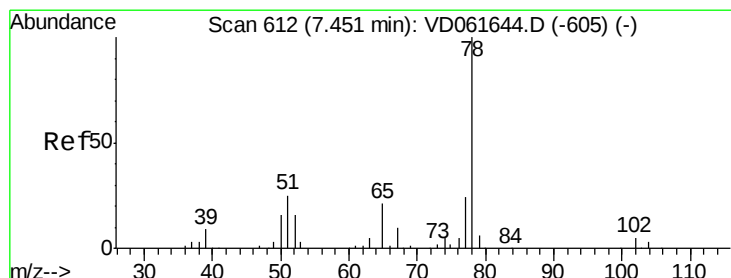
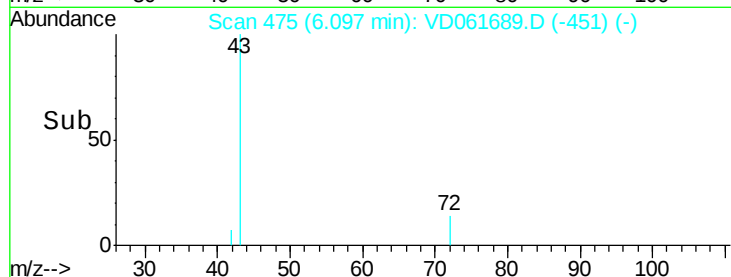
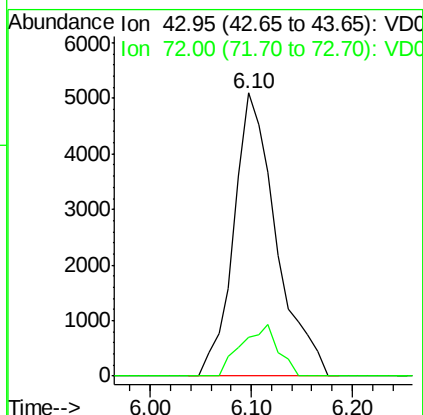
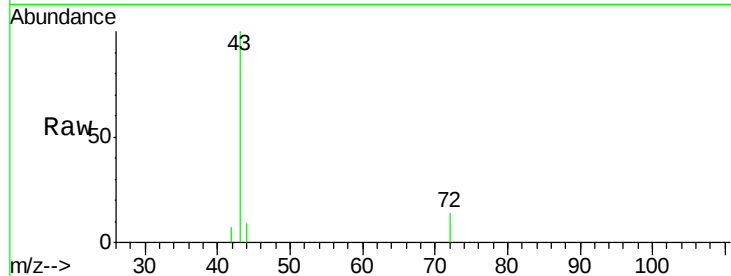
20190174-AMND-COMP-CS-1

Tgt Ion: 43 Resp: 14873

Ion Ratio Lower Upper

43 100

72 13.9 17.4 26.2#



#33

1,2-Dichloroethane-d4

Concen: 49.609 ug/l

RT: 7.49 min Scan# 616

Delta R.T. 0.03 min

Lab File: VD061689.D

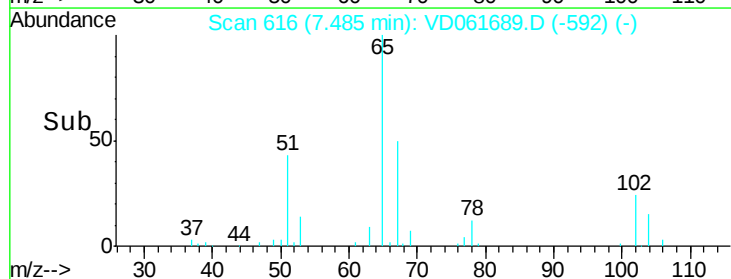
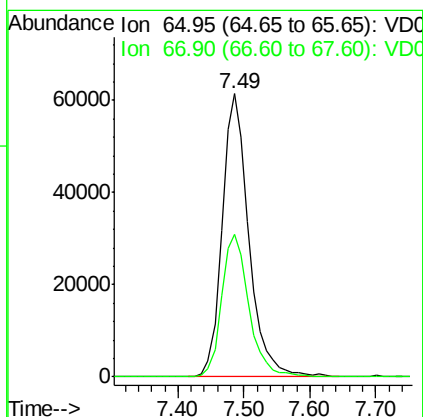
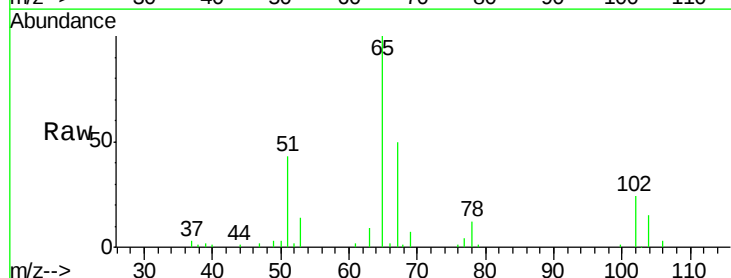
Acq: 9 Apr 2019 21:52

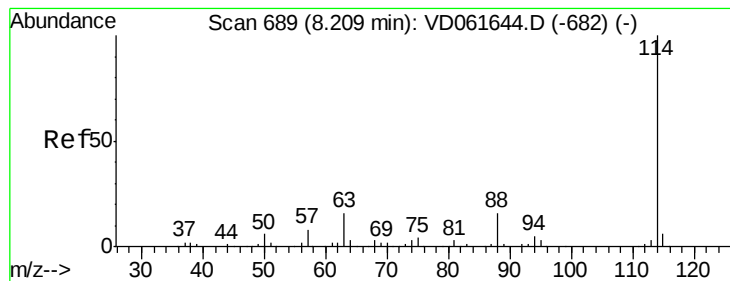
Tgt Ion: 65 Resp: 173758

Ion Ratio Lower Upper

65 100

67 50.4 0.0 99.4





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.25 min Scan# 694

Delta R.T. 0.04 min

Lab File: VD061689.D

Acq: 9 Apr 2019 21:52

Instrument :

MSVOA\_D

ClientSampleId :

20190174-AMND-COMP-CS-1

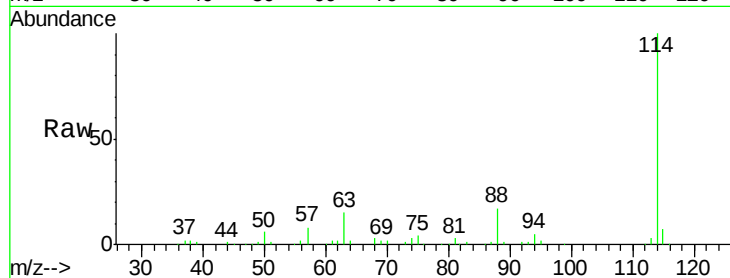
Tgt Ion:114 Resp: 756672

Ion Ratio Lower Upper

114 100

63 14.7 0.0 31.2

88 16.6 0.0 31.8



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

8.25

300000

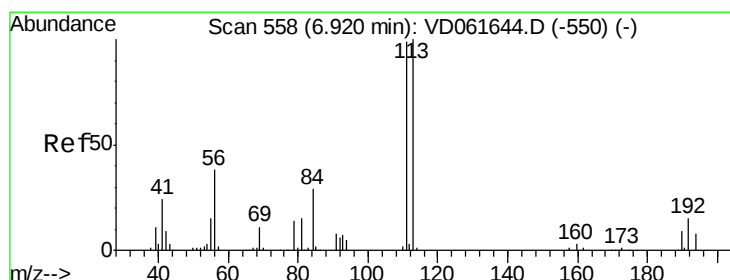
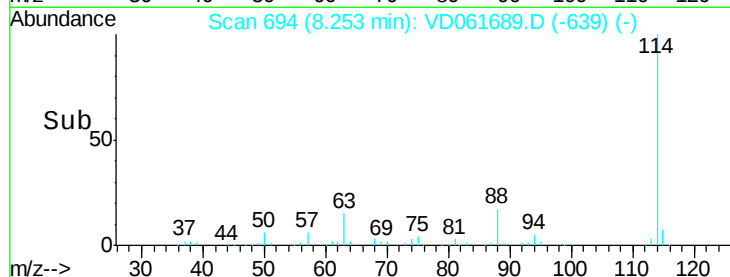
200000

100000

0

8.20 8.40 8.60

Time-->



#35

Dibromofluoromethane

Concen: 1.065 ug/l

RT: 6.95 min Scan# 562

Delta R.T. 0.03 min

Lab File: VD061689.D

Acq: 9 Apr 2019 21:52

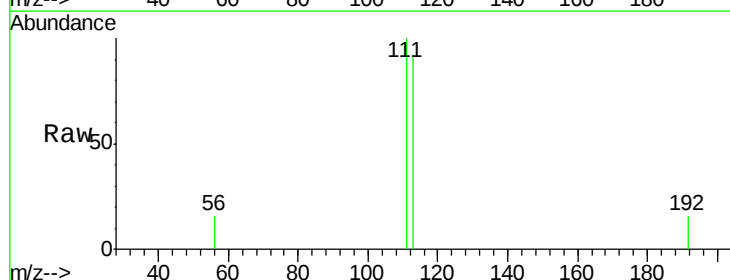
Tgt Ion:113 Resp: 5584

Ion Ratio Lower Upper

113 100

111 109.2 79.3 118.9

192 17.6 12.3 18.5



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

6.95

3000

2500

2000

1500

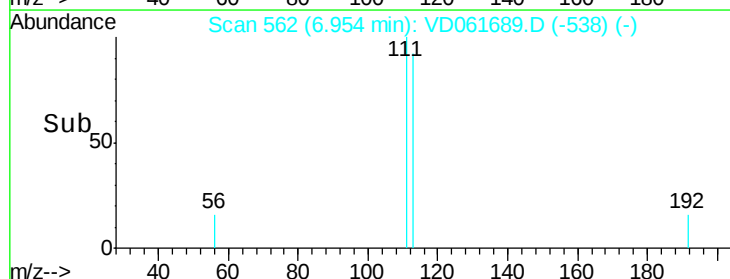
1000

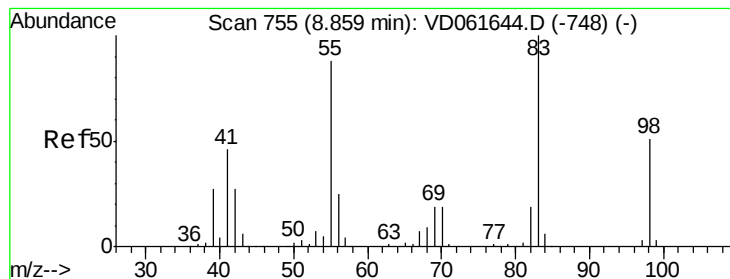
500

0

6.90 6.95 7.00

Time-->





#39

Methylcyclohexane

Concen: 2.151 ug/l

RT: 8.89 min Scan# 759

Delta R.T. 0.03 min

Lab File: VD061689.D

Acq: 9 Apr 2019 21:52

Instrument :

MSVOA\_D

ClientSampleId :

20190174-AMND-COMP-CS-1

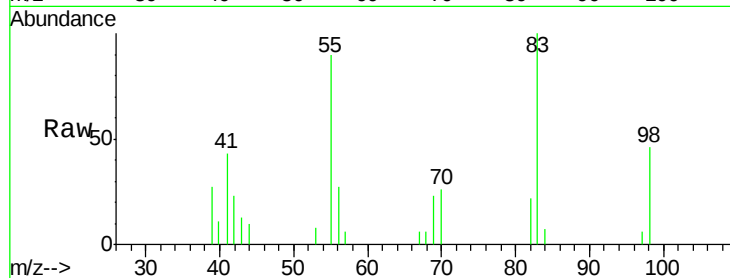
Tgt Ion: 83 Resp: 14622

Ion Ratio Lower Upper

83 100

55 89.8 70.3 105.5

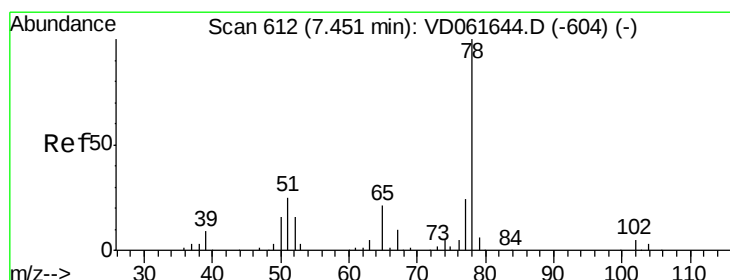
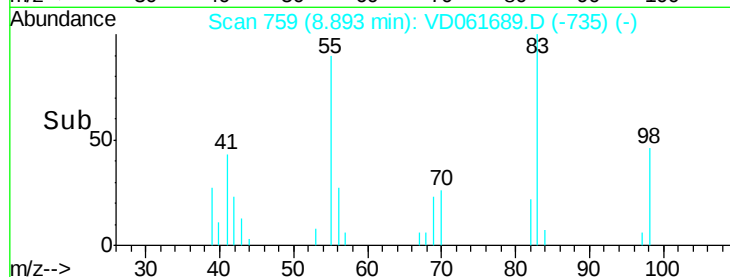
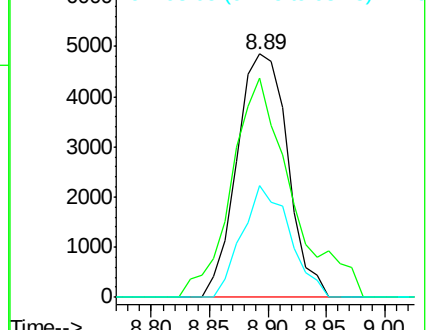
98 46.1 41.0 61.6



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: 1.420 ug/l

RT: 7.49 min Scan# 616

Delta R.T. 0.03 min

Lab File: VD061689.D

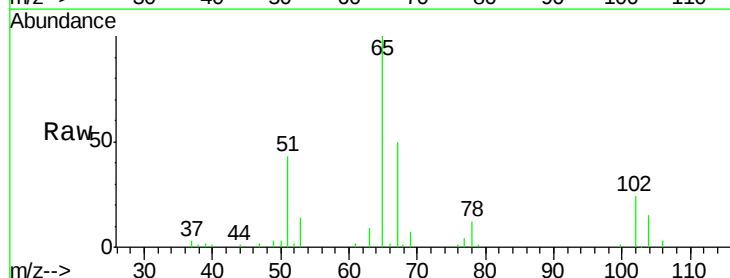
Acq: 9 Apr 2019 21:52

Tgt Ion: 78 Resp: 22691

Ion Ratio Lower Upper

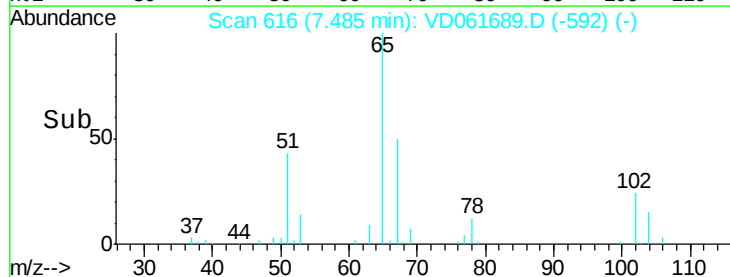
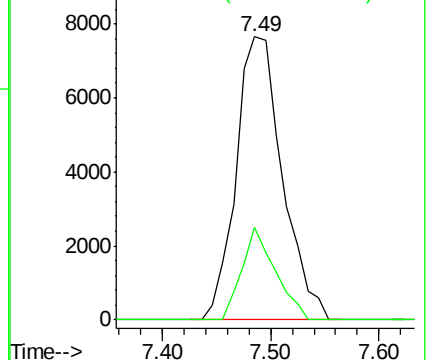
78 100

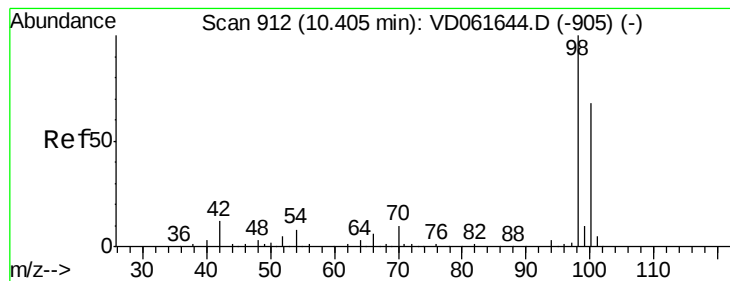
77 32.7 19.5 29.3#



Abundance Ion 77.95 (77.65 to 78.65): VDC

Ion 76.95 (76.65 to 77.65): VDC





#50

Toluene-d8

Concen: 50.149 ug/l

RT: 10.44 min Scan# 916

Delta R.T. 0.03 min

Lab File: VD061689.D

Acq: 9 Apr 2019 21:52

Instrument :

MSVOA\_D

ClientSampleId :

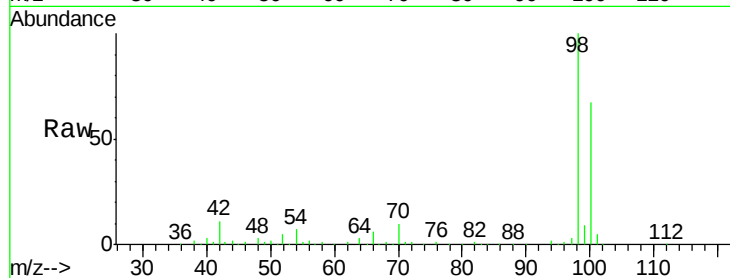
20190174-AMND-COMP-CS-1

Tgt Ion: 98 Resp: 660473

Ion Ratio Lower Upper

98 100

100 67.4 55.4 83.0



Abundance Ion 98.05 (97.75 to 98.75): VD061644.D (-905) (-)

Ion 100.05 (99.75 to 100.75): VD061644.D (-905) (-)

10.44

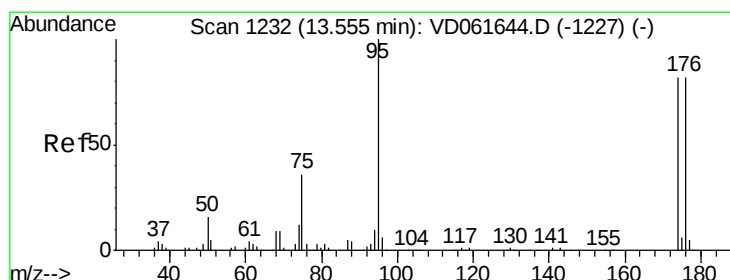
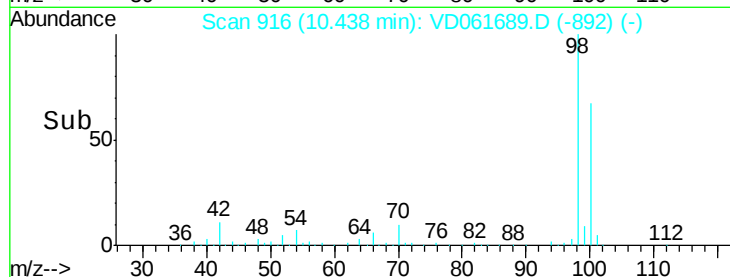
300000

200000

100000

0

Time-->



#62

4-Bromofluorobenzene

Concen: 43.713 ug/l

RT: 13.57 min Scan# 1234

Delta R.T. 0.01 min

Lab File: VD061689.D

Acq: 9 Apr 2019 21:52

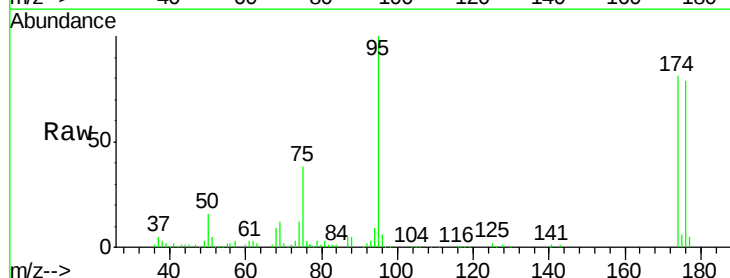
Tgt Ion: 95 Resp: 207780

Ion Ratio Lower Upper

95 100

174 81.2 0.0 164.6

176 79.3 0.0 165.0



Abundance Ion 95.00 (94.70 to 95.70): VD061644.D (-1227) (-)

Ion 173.90 (173.60 to 174.60): VD061644.D (-1227) (-)

Ion 175.90 (175.60 to 176.60): VD061644.D (-1227) (-)

200000

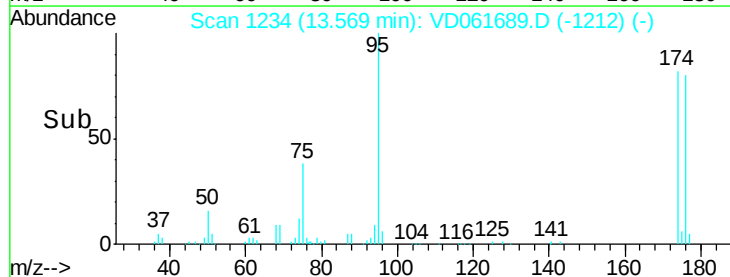
150000

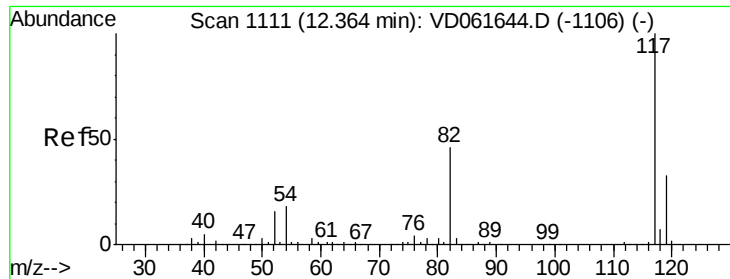
100000

50000

0

Time-->

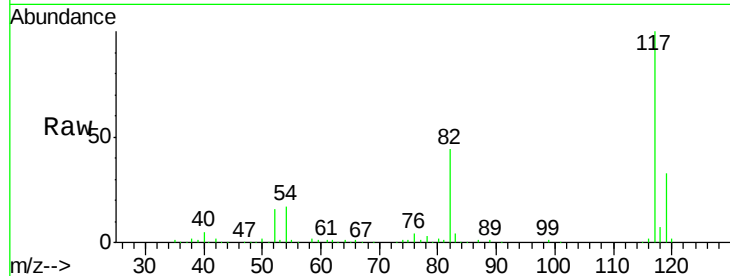




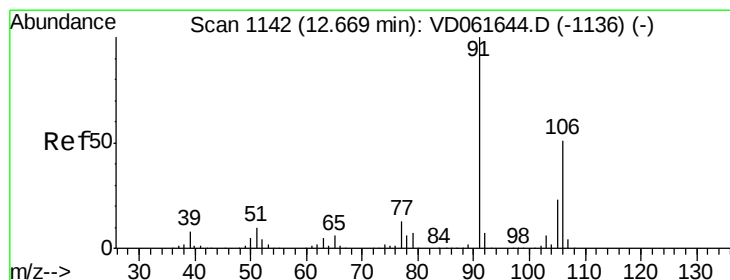
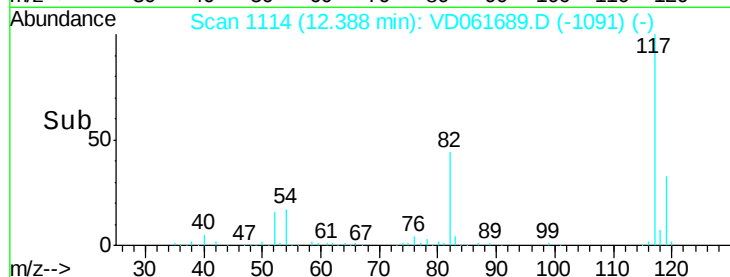
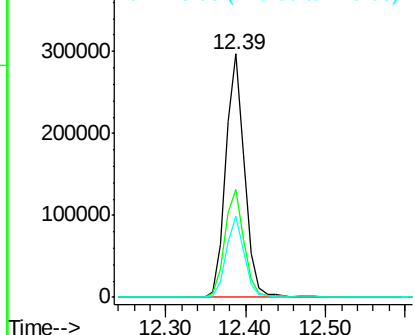
#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 12.39 min Scan# 1114  
Delta R.T. 0.02 min  
Lab File: VD061689.D  
Acq: 9 Apr 2019 21:52

Instrument :  
MSVOA\_D  
ClientSampleId :  
20190174-AMND-COMP-CS-1

Tgt Ion:117 Resp: 491826  
Ion Ratio Lower Upper  
117 100  
82 44.2 36.8 55.2  
119 33.4 26.1 39.1

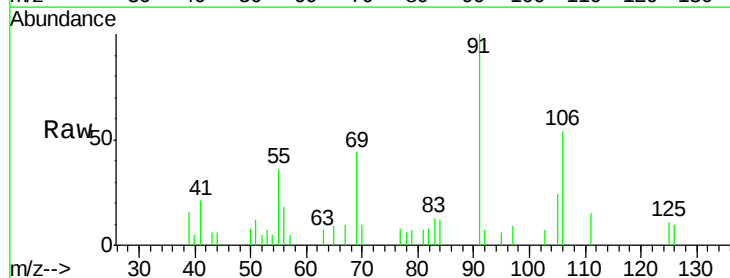


Abundance Ion 116.95 (116.65 to 117.65): V  
Ion 82.05 (81.75 to 82.75): V  
Ion 118.95 (118.65 to 119.65): V

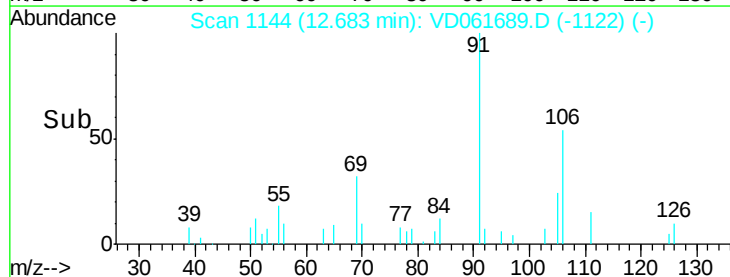
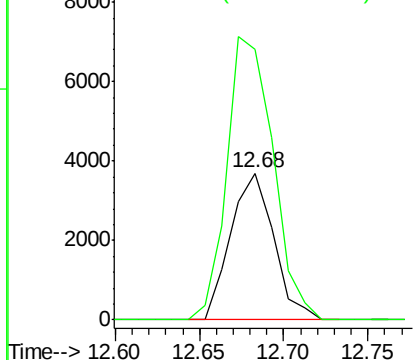


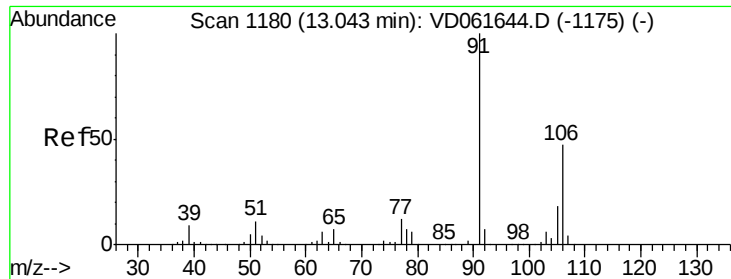
#68  
m/p-Xylenes  
Concen: 1.148 ug/l  
RT: 12.68 min Scan# 1144  
Delta R.T. 0.01 min  
Lab File: VD061689.D  
Acq: 9 Apr 2019 21:52

Tgt Ion:106 Resp: 6573  
Ion Ratio Lower Upper  
106 100  
91 184.1 156.7 235.1



Abundance Ion 106.05 (105.75 to 106.75): V  
Ion 91.00 (90.70 to 91.70): V

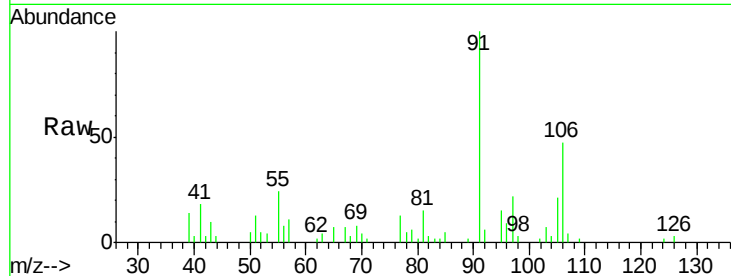




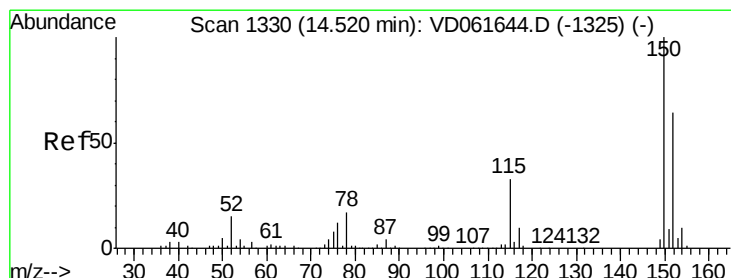
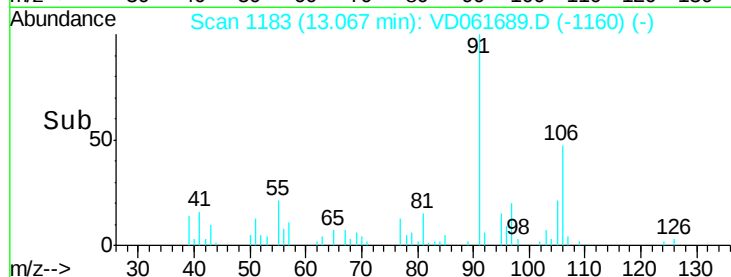
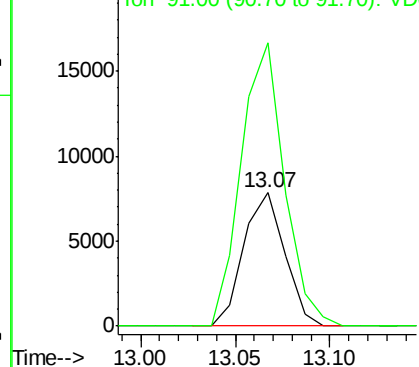
#69  
o-Xylene  
Concen: 2.125 ug/l  
RT: 13.07 min Scan# 1183  
Delta R.T. 0.02 min  
Lab File: VD061689.D  
Acq: 9 Apr 2019 21:52

Instrument :  
MSVOA\_D  
ClientSampleId :  
20190174-AMND-COMP-CS-1

Tgt Ion:106 Resp: 11745  
Ion Ratio Lower Upper  
106 100  
91 212.8 107.3 321.9

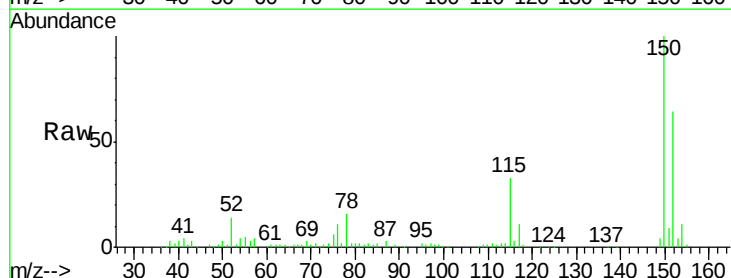


Abundance Ion 106.05 (105.75 to 106.75): V  
Ion 91.00 (90.70 to 91.70): VDC

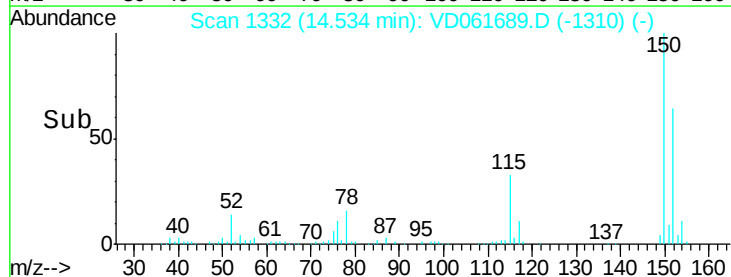
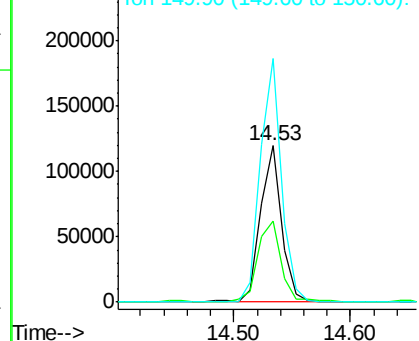


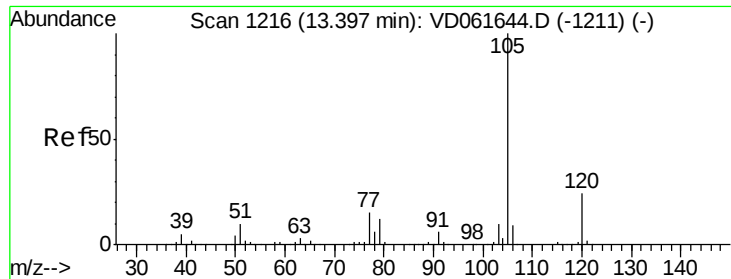
#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 14.53 min Scan# 1332  
Delta R.T. 0.01 min  
Lab File: VD061689.D  
Acq: 9 Apr 2019 21:52

Tgt Ion:152 Resp: 151032  
Ion Ratio Lower Upper  
152 100  
115 51.6 26.4 79.2  
150 155.8 0.0 320.6



Abundance Ion 151.90 (151.60 to 152.60): V  
Ion 115.00 (114.70 to 115.70): V  
Ion 149.90 (149.60 to 150.60): V





#73

Isopropylbenzene

Concen: 1.940 ug/l

RT: 13.42 min Scan# 1219

Delta R.T. 0.02 min

Lab File: VD061689.D

Acq: 9 Apr 2019 21:52

Instrument :

MSVOA\_D

ClientSampleId :

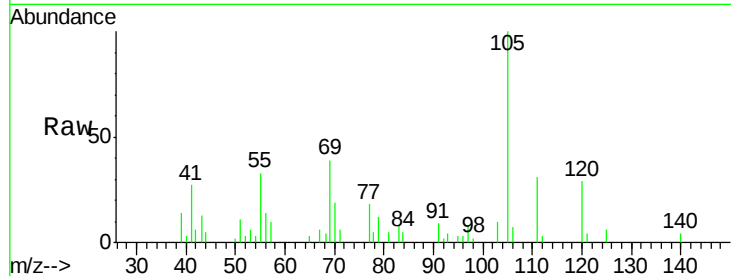
20190174-AMND-COMP-CS-1

Tgt Ion:105 Resp: 19523

Ion Ratio Lower Upper

105 100

120 29.1 12.2 36.4



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.05 (119.75 to 120.75): V

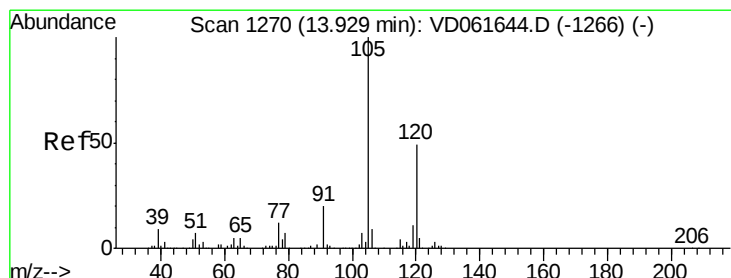
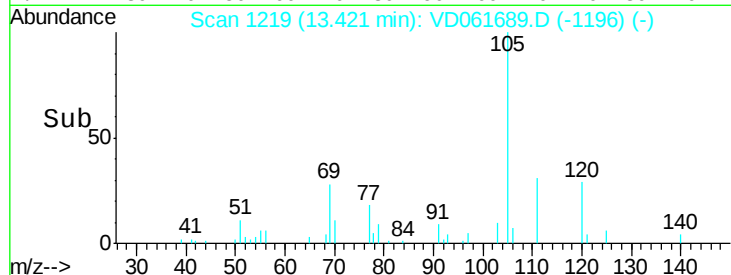
15000

10000

5000

0

Time--> 13.35 13.40 13.45



#80

1,3,5-Trimethylbenzene

Concen: 5.341 ug/l

RT: 13.94 min Scan# 1272

Delta R.T. 0.01 min

Lab File: VD061689.D

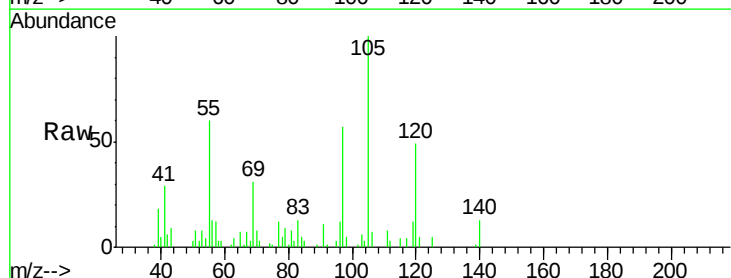
Acq: 9 Apr 2019 21:52

Tgt Ion:105 Resp: 42660

Ion Ratio Lower Upper

105 100

120 49.0 24.4 73.2



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.05 (119.75 to 120.75): V

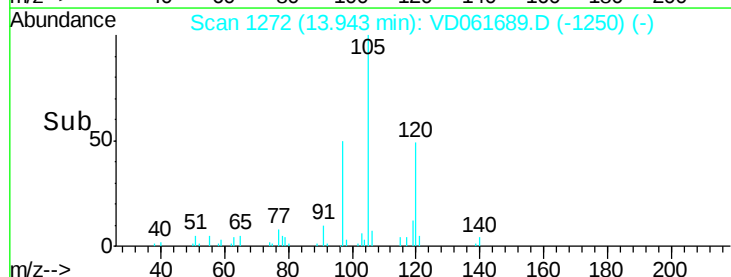
30000

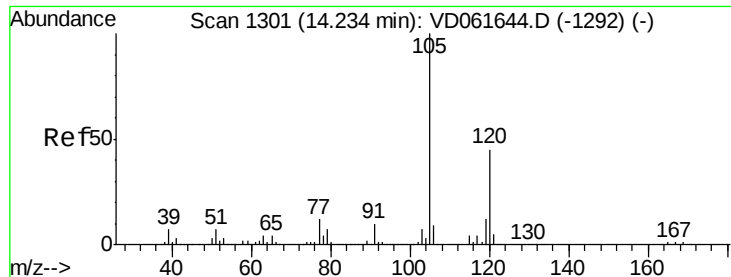
20000

10000

0

Time--> 13.90 13.95 14.00

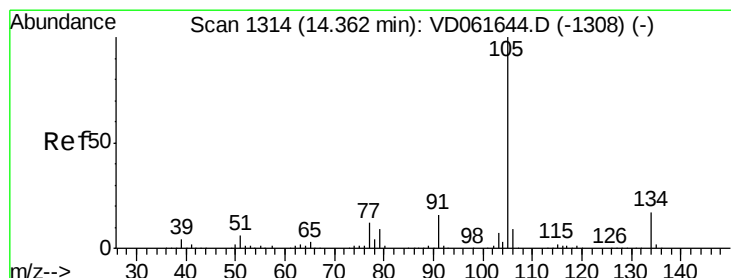
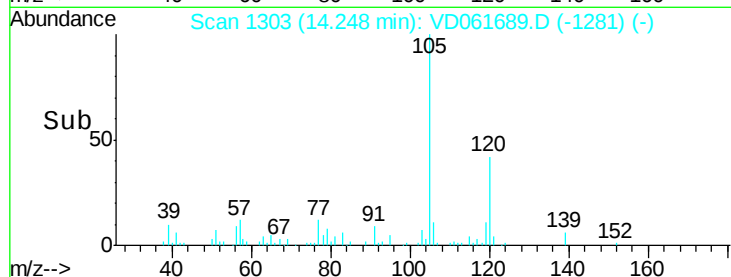
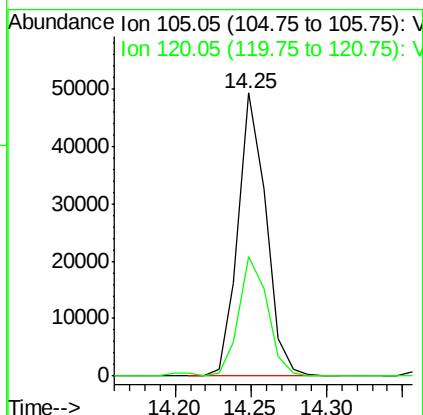
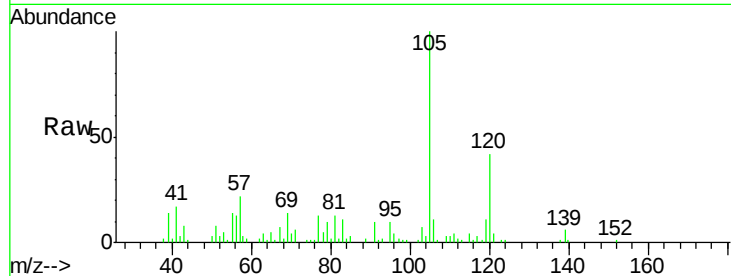




#84  
 1,2,4-Trimethylbenzene  
 Concen: 7.838 ug/l  
 RT: 14.25 min Scan# 1303  
 Delta R.T. 0.01 min  
 Lab File: VD061689.D  
 Acq: 9 Apr 2019 21:52

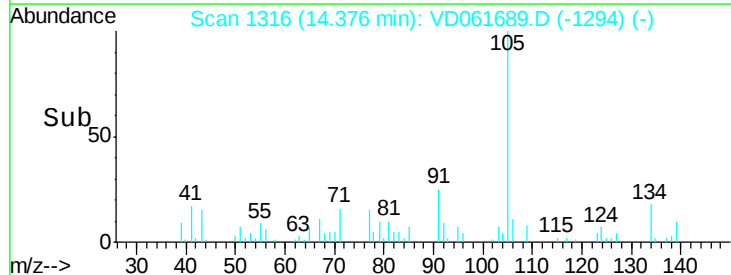
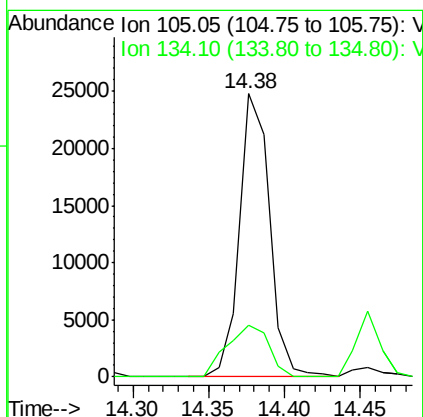
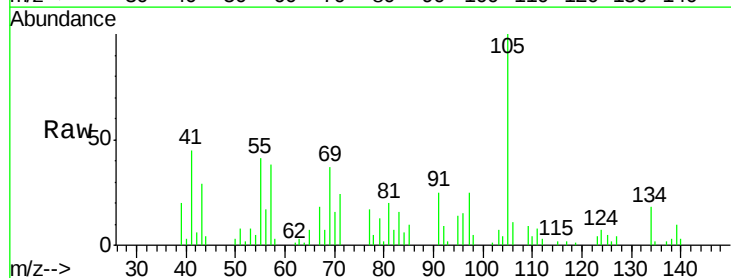
Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 20190174-AMND-COMP-CS-1

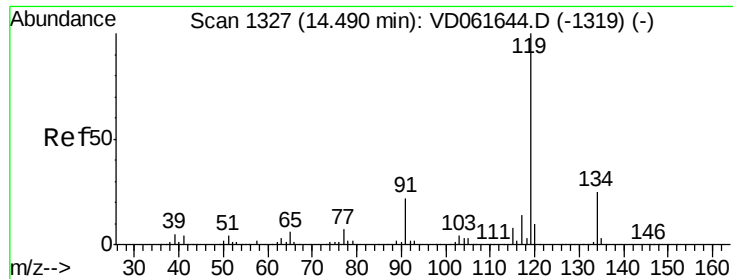
Tgt Ion:105 Resp: 63185  
 Ion Ratio Lower Upper  
 105 100  
 120 42.3 22.6 67.8



#85  
 sec-Butylbenzene  
 Concen: 3.296 ug/l  
 RT: 14.38 min Scan# 1316  
 Delta R.T. 0.01 min  
 Lab File: VD061689.D  
 Acq: 9 Apr 2019 21:52

Tgt Ion:105 Resp: 34298  
 Ion Ratio Lower Upper  
 105 100  
 134 18.5 8.6 25.7

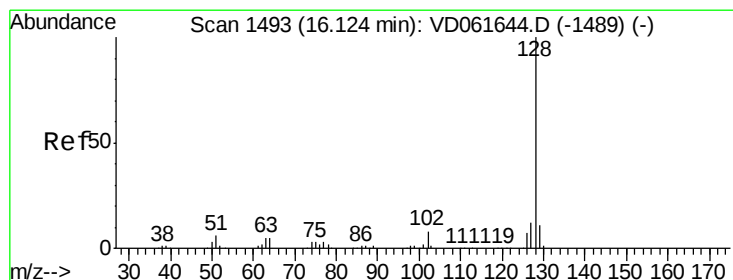
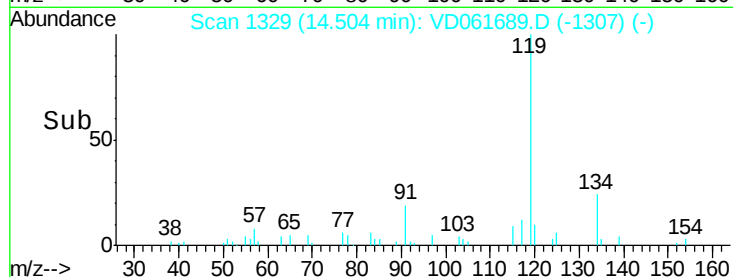
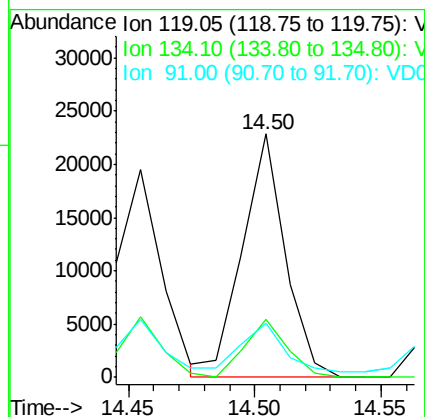
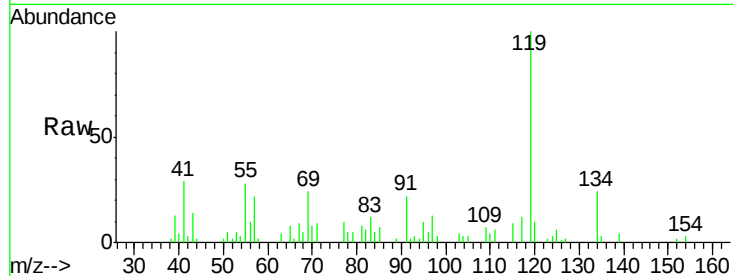




#86  
p-Isopropyltoluene  
Concen: 2.987 ug/l  
RT: 14.50 min Scan# 1329  
Delta R.T. 0.01 min  
Lab File: VD061689.D  
Acq: 9 Apr 2019 21:52

Instrument :  
MSVOA\_D  
ClientSampleId :  
20190174-AMND-COMP-CS-1

Tgt Ion:119 Resp: 26959  
Ion Ratio Lower Upper  
119 100  
134 23.6 12.5 37.5  
91 22.2 11.0 33.0



#95  
Naphthalene  
Concen: 8.838 ug/l  
RT: 16.14 min Scan# 1495  
Delta R.T. 0.01 min  
Lab File: VD061689.D  
Acq: 9 Apr 2019 21:52

Tgt Ion:128 Resp: 29518  
Ion Ratio Lower Upper  
128 100  
127 13.8 9.4 14.2  
129 15.0 8.8 13.2#

