

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF031819\  
 Data File : VF062003.D  
 Acq On : 18 Mar 2019 17:58  
 Operator : VA/AP  
 Sample : K1687-09  
 Misc : 6.40g/5mL/MSVOA-F/SOIL  
 ALS Vial : 16 Sample Multiplier: 1

Instrument :  
 MSVOA\_F  
 ClientSampleId :  
 HR-05-031519-B

Quant Time: Mar 19 02:01:25 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_F\METHODS\82F031619S.M  
 Quant Title : SW846 8260  
 QLast Update : Mon Mar 18 07:28:40 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 4.86  | 168  | 196859   | 50.00 | ug/l  | -0.01    |
| 34) 1,4-Difluorobenzene    | 5.59  | 114  | 241623   | 50.00 | ug/l  | -0.01    |
| 63) Chlorobenzene-d5       | 9.76  | 117  | 39244    | 50.00 | ug/l  | -0.01    |
| 72) 1,4-Dichlorobenzene-d4 | 12.54 | 152  | 93366    | 50.00 | ug/l  | -0.01    |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units   | Dev(Min) |
|-----------------------------|-------|------|----------|-------|---------|----------|
| 33) 1,2-Dichloroethane-d4   | 4.83  | 65   | 81545    | 57.54 | ug/l    | -0.01    |
| Spiked Amount               |       |      | Recovery | =     | 115.08% |          |
| 35) Dibromofluoromethane    | 4.10  | 113  | 116378   | 71.73 | ug/l    | -0.01    |
| Spiked Amount               |       |      | Recovery | =     | 143.46% |          |
| 50) Toluene-d8              | 7.54  | 98   | 5734     | 1.21  | ug/l    | -0.01    |
| Spiked Amount               |       |      | Recovery | =     | 2.42%   |          |
| 62) 4-Bromofluorobenzene    | 11.39 | 95   | 85777    | 45.52 | ug/l    | -0.01    |
| Spiked Amount               |       |      | Recovery | =     | 91.04%  |          |

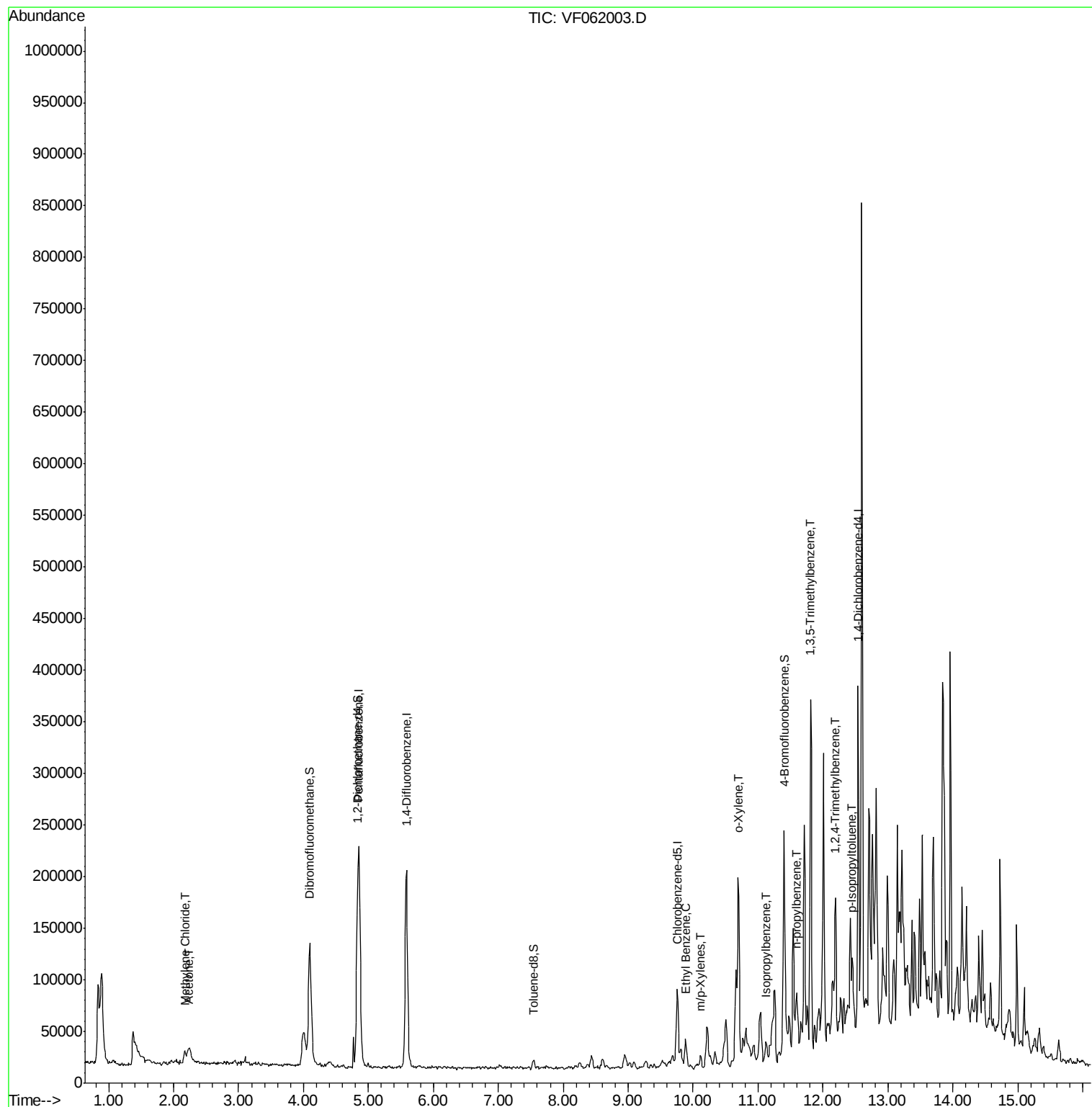
| Target Compounds           | R.T.  | QIon | Response | Conc    | Units | Qvalue |
|----------------------------|-------|------|----------|---------|-------|--------|
| 16) Acetone                | 2.23  | 43   | 11078    | 34.814  | ug/l  | 98     |
| 20) Methylene Chloride     | 2.17  | 84   | 16032m   | 9.786   | ug/l  |        |
| 67) Ethyl Benzene          | 9.89  | 91   | 24347    | 19.461  | ug/l  | 96     |
| 68) m/p-Xylenes            | 10.11 | 106  | 4601     | 9.778   | ug/l  | 93     |
| 69) o-Xylene               | 10.70 | 106  | 51787    | 102.859 | ug/l  | 94     |
| 73) Isopropylbenzene       | 11.11 | 105  | 9041     | 1.402   | ug/l  | 94     |
| 78) n-propylbenzene        | 11.58 | 91   | 15949    | 2.150   | ug/l  | 97     |
| 80) 1,3,5-Trimethylbenzene | 11.81 | 105  | 168154   | 32.272  | ug/l  | 100    |
| 84) 1,2,4-Trimethylbenzene | 12.19 | 105  | 27741    | 5.315   | ug/l  | 86     |
| 86) p-Isopropyltoluene     | 12.45 | 119  | 24589m   | 4.003   | ug/l  |        |

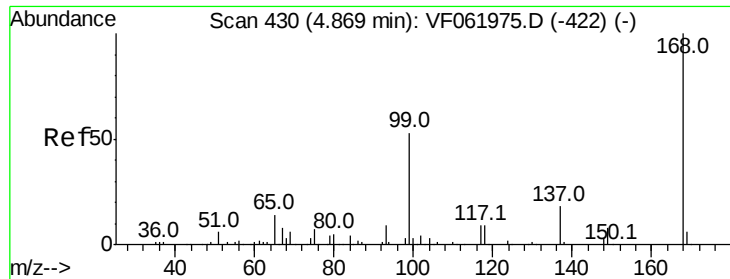
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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ClientSampleId :  
HR-05-031519-B

Quant Time: Mar 19 02:01:25 2019  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_F\METHODS\82F031619S.M  
Quant Title : SW846 8260  
QLast Update : Mon Mar 18 07:28:40 2019  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.86 min Scan# 429

Delta R.T. -0.01 min

Lab File: VF062003.D

Acq: 18 Mar 2019 17:58

Instrument :

MSVOA\_F

ClientSampleId :

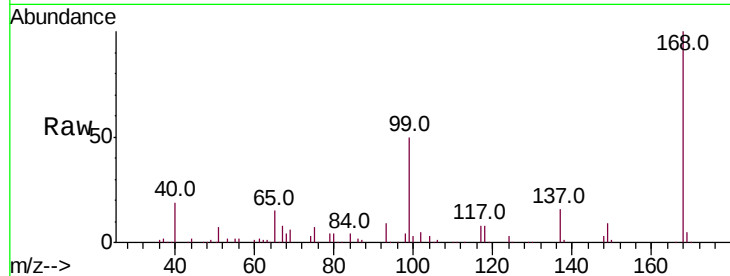
HR-05-031519-B

Tot Ion:168 Resp: 196859

Ion Ratio Lower Upper

168 100

99 50.1 42.4 63.6



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

4.86

60000

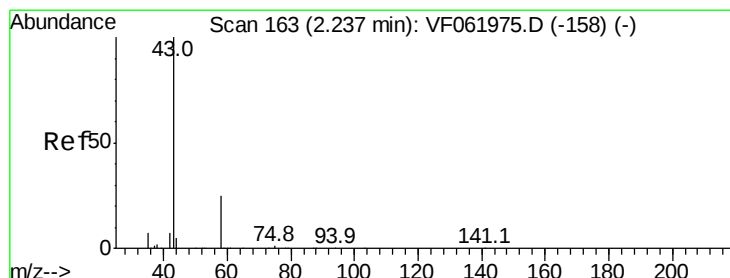
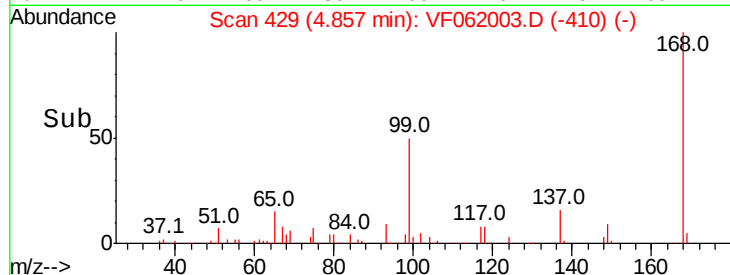
40000

20000

0

Time-->

4.70 4.80 4.90 5.00



#16

Acetone

Concen: 34.814 ug/l

RT: 2.23 min Scan# 163

Delta R.T. -0.00 min

Lab File: VF062003.D

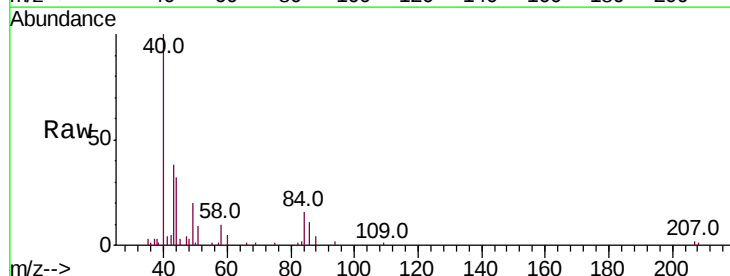
Acq: 18 Mar 2019 17:58

Tgt Ion: 43 Resp: 11078

Ion Ratio Lower Upper

43 100

58 25.9 19.9 29.9



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

2.23

5000

4000

3000

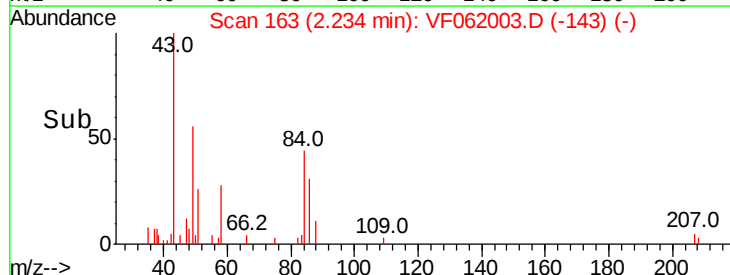
2000

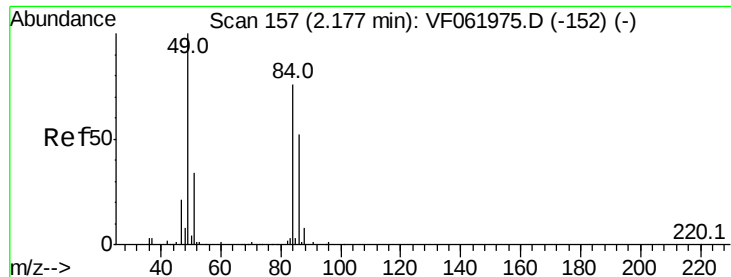
1000

0

Time-->

2.15 2.20 2.25 2.30

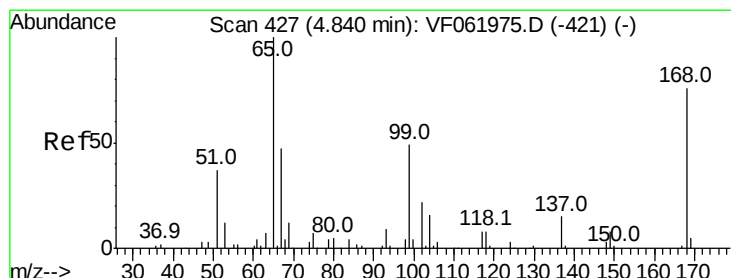
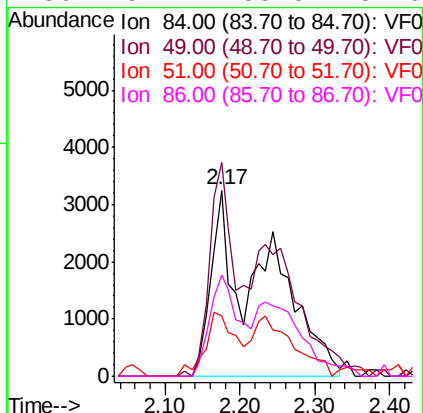
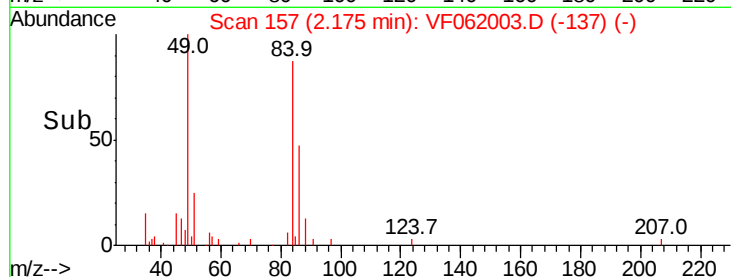
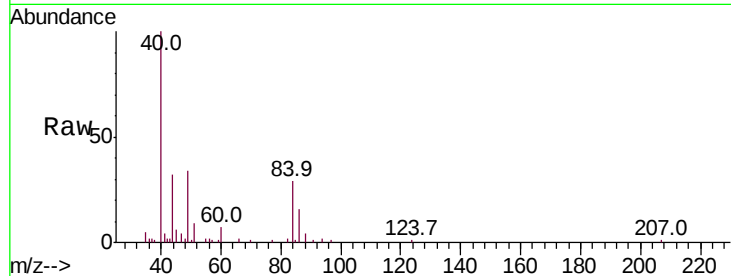




#20  
Methvlene Chloride  
Concen: 9.786 ug/l m  
RT: 2.17 min Scan# 157  
Delta R.T. -0.00 min  
Lab File: VF062003.D  
Acq: 18 Mar 2019 17:58

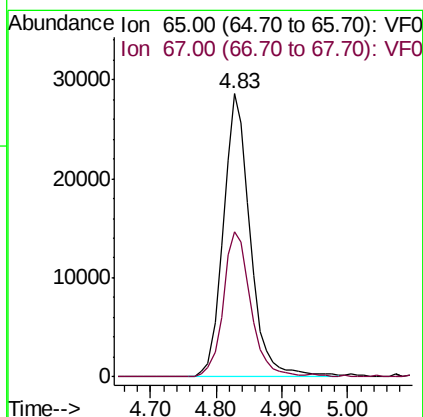
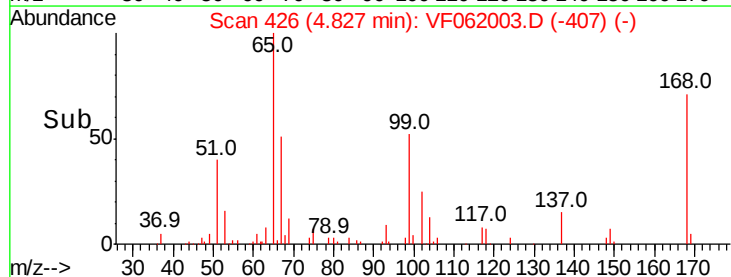
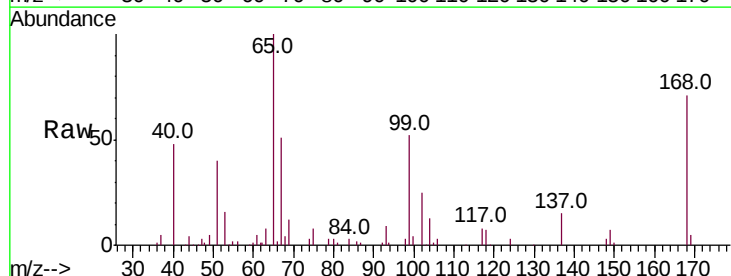
Instrument :  
MSVOA\_F  
ClientSampleId :  
HR-05-031519-B

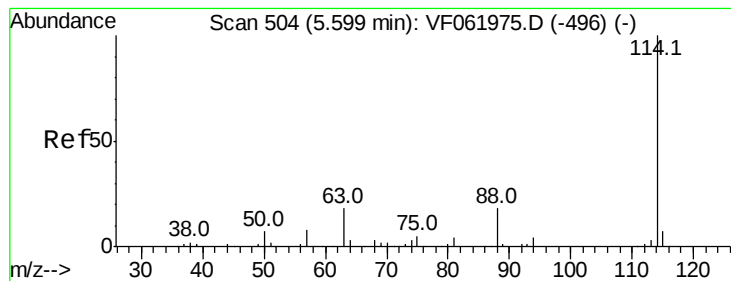
Tot Ion: 84 Resp: 16032  
Ion Ratio Lower Upper  
84 100  
49 114.7 107.0 160.6  
51 32.3 37.2 55.8#  
86 54.1 55.3 82.9#



#33  
1,2-Dichloroethane-d4  
Concen: 57.545 ug/l  
RT: 4.83 min Scan# 426  
Delta R.T. -0.01 min  
Lab File: VF062003.D  
Acq: 18 Mar 2019 17:58

Tgt Ion: 65 Resp: 81545  
Ion Ratio Lower Upper  
65 100  
67 51.4 0.0 109.4





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.59 min Scan# 503

Delta R.T. -0.01 min

Lab File: VF062003.D

Acq: 18 Mar 2019 17:58

Instrument :

MSVOA\_F

ClientSampleId :

HR-05-031519-B

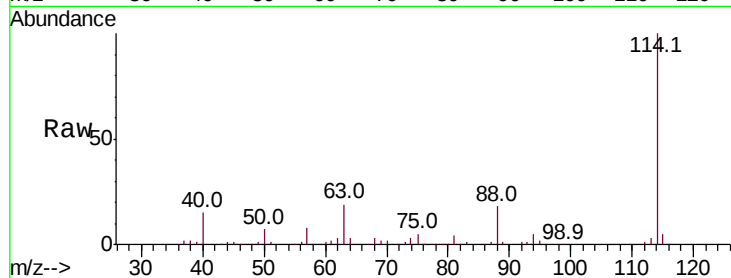
Tot Ion:114 Resp: 241623

Ion Ratio Lower Upper

114 100

63 18.7 0.0 36.4

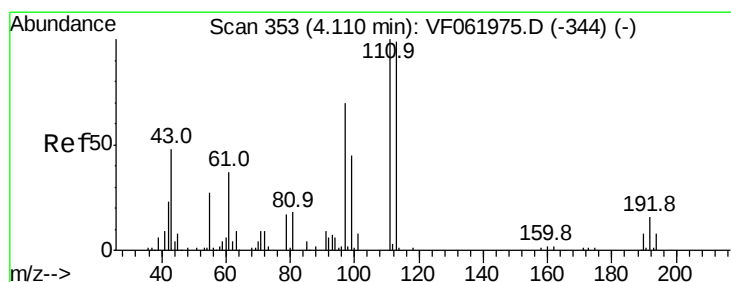
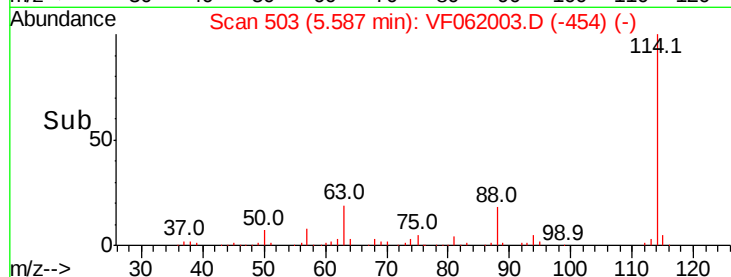
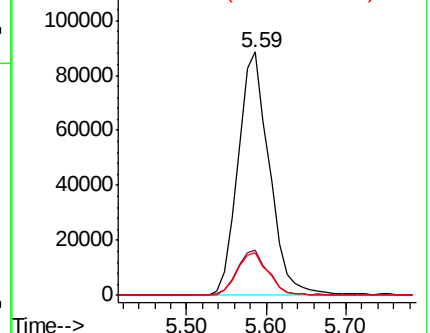
88 17.6 0.0 36.4



Abundance Ion 114.00 (113.70 to 114.70): V

Ion 63.00 (62.70 to 63.70): VF0

Ion 88.00 (87.70 to 88.70): VF0



#35

Dibromofluoromethane

Concen: 71.726 ug/l

RT: 4.10 min Scan# 352

Delta R.T. -0.01 min

Lab File: VF062003.D

Acq: 18 Mar 2019 17:58

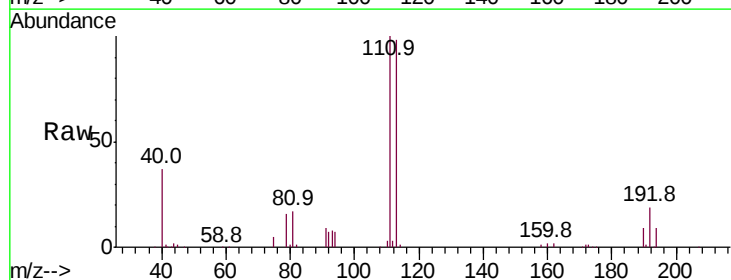
Tgt Ion:113 Resp: 116378

Ion Ratio Lower Upper

113 100

111 102.3 80.8 121.2

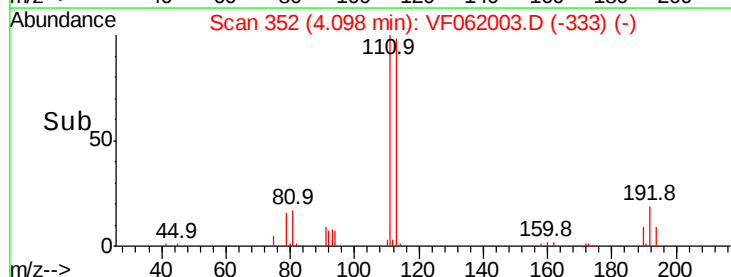
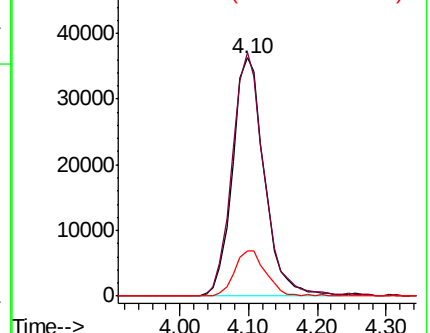
192 19.1 13.0 19.6

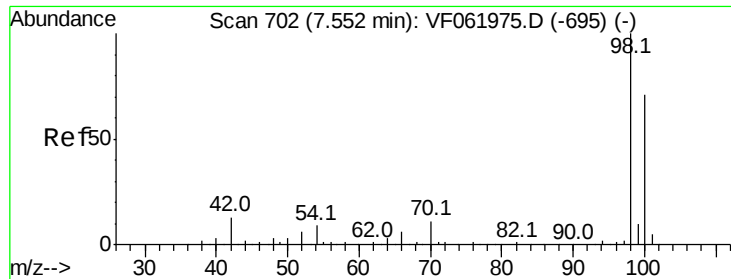


Abundance Ion 113.00 (112.70 to 113.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 192.00 (191.70 to 192.70): V

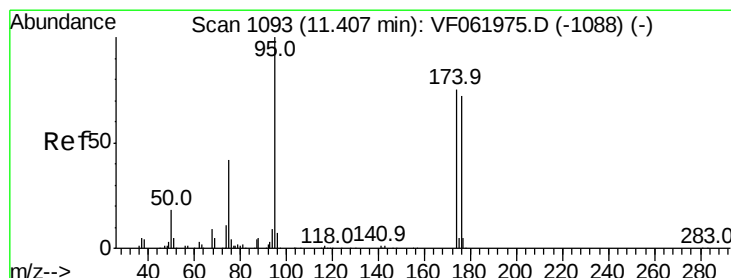
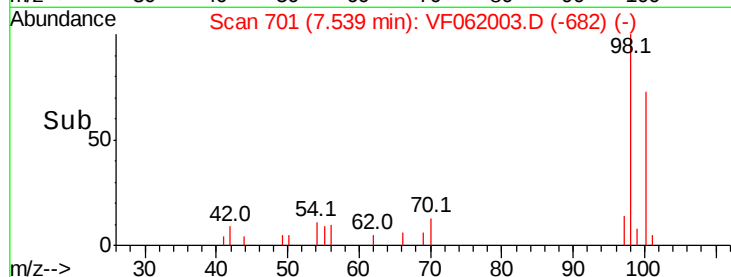
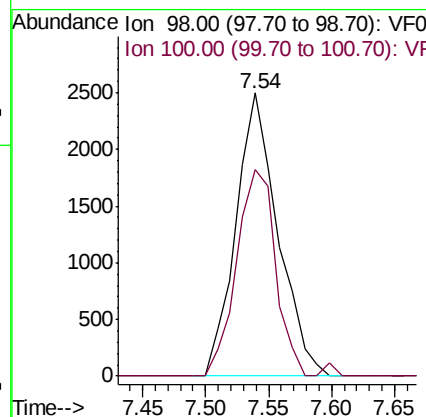
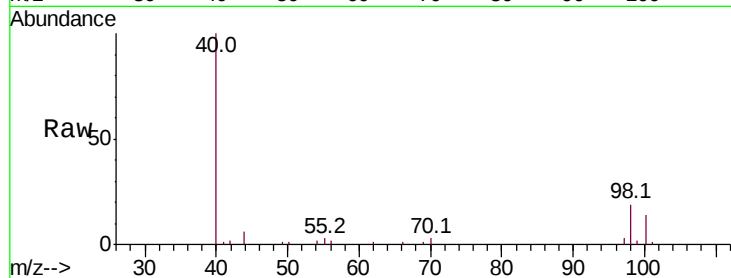




#50  
Toluene-d8  
Concen: 1.209 ug/l  
RT: 7.54 min Scan# 701  
Delta R.T. -0.01 min  
Lab File: VF062003.D  
Acq: 18 Mar 2019 17:58

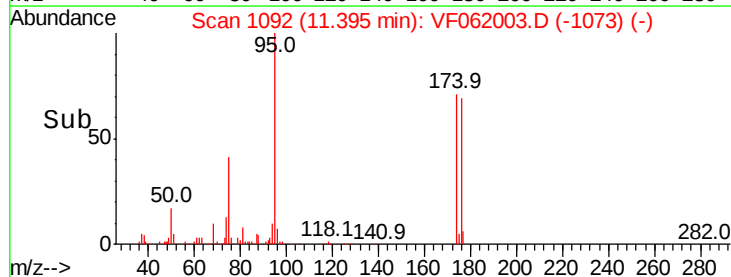
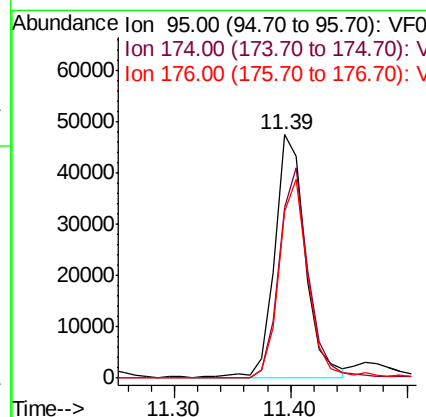
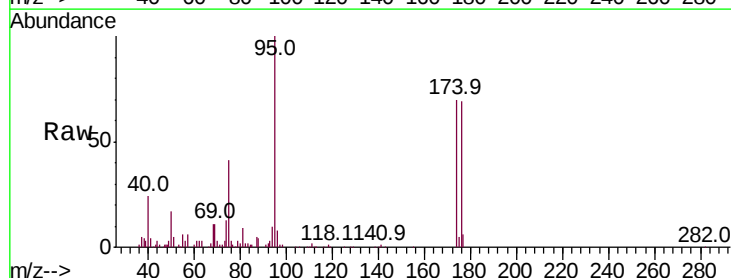
Instrument :  
MSVOA\_F  
ClientSampleId :  
HR-05-031519-B

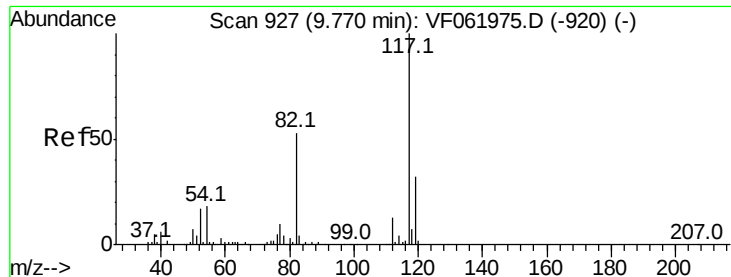
Tot Ion: 98 Resp: 5734  
Ion Ratio Lower Upper  
98 100  
100 72.9 56.8 85.2



#62  
4-Bromofluorobenzene  
Concen: 45.522 ug/l  
RT: 11.39 min Scan# 1092  
Delta R.T. -0.01 min  
Lab File: VF062003.D  
Acq: 18 Mar 2019 17:58

Tgt Ion: 95 Resp: 85777  
Ion Ratio Lower Upper  
95 100  
174 70.1 0.0 149.4  
176 68.6 0.0 143.4

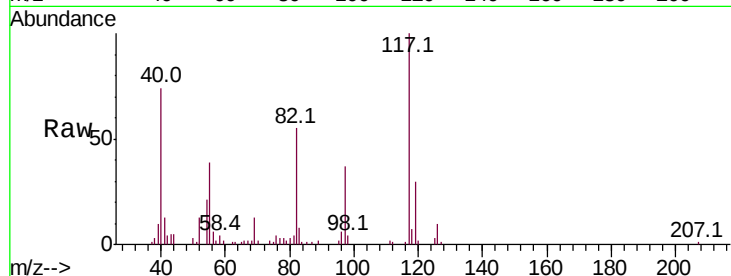




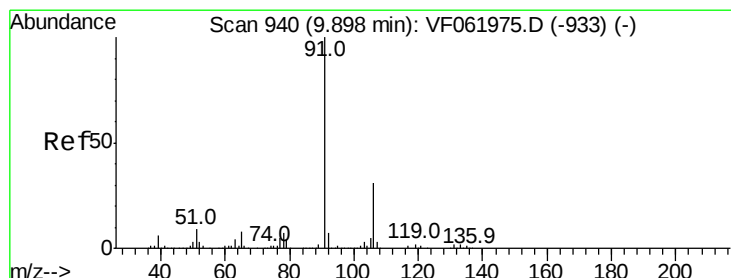
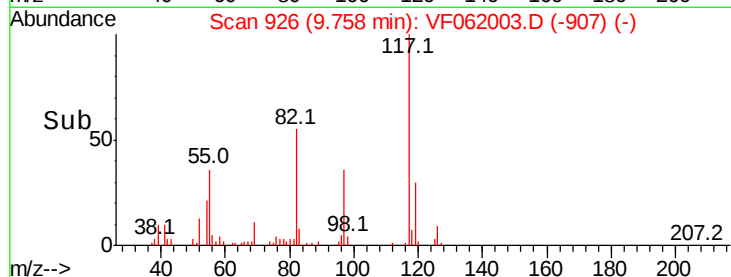
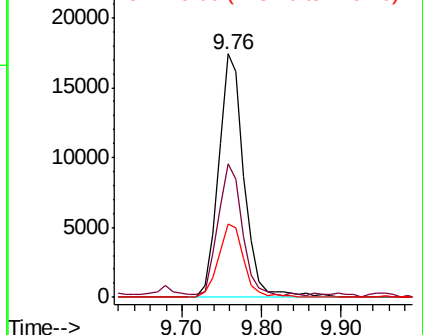
#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 9.76 min Scan# 926  
Delta R.T. -0.01 min  
Lab File: VF062003.D  
Acq: 18 Mar 2019 17:58

Instrument :  
MSVOA\_F  
ClientSampleId :  
HR-05-031519-B

Tot Ion:117 Resp: 39244  
Ion Ratio Lower Upper  
117 100  
82 54.6 42.5 63.7  
119 30.4 25.4 38.0

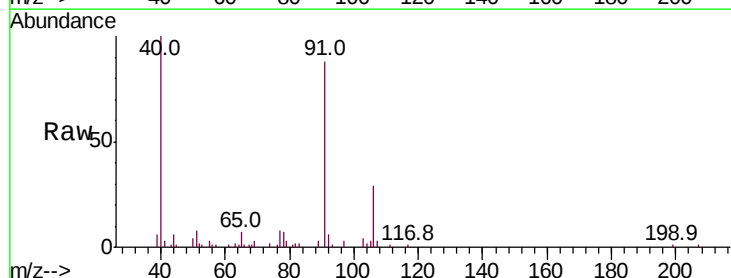


Abundance Ion 117.00 (116.70 to 117.70): V  
Ion 82.00 (81.70 to 82.70): VF0  
Ion 119.00 (118.70 to 119.70): V

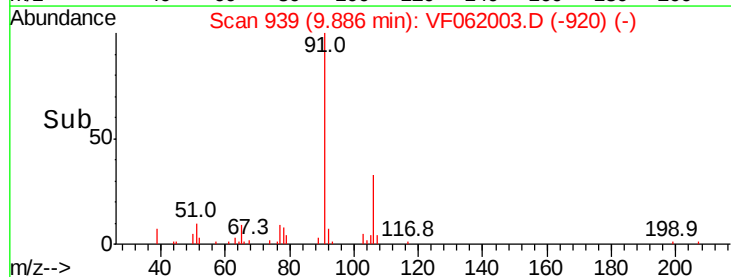
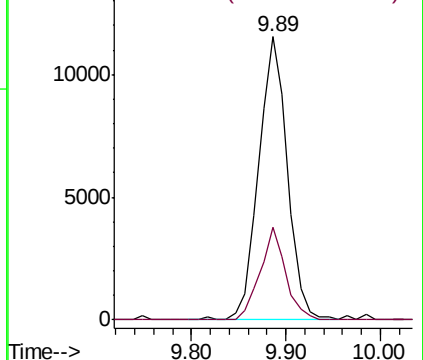


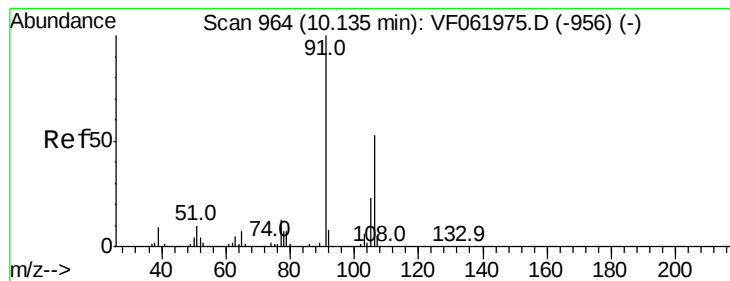
#67  
Ethyl Benzene  
Concen: 19.461 ug/l  
RT: 9.89 min Scan# 939  
Delta R.T. -0.01 min  
Lab File: VF062003.D  
Acq: 18 Mar 2019 17:58

Tgt Ion: 91 Resp: 24347  
Ion Ratio Lower Upper  
91 100  
106 32.9 24.4 36.6



Abundance Ion 91.00 (90.70 to 91.70): VF0  
Ion 106.00 (105.70 to 106.70): V





#68

m/p-Xylenes

Concen: 9.778 ug/l

RT: 10.11 min Scan# 962

Delta R.T. -0.02 min

Lab File: VF062003.D

Acq: 18 Mar 2019 17:58

Instrument :

MSVOA\_F

ClientSampleId :

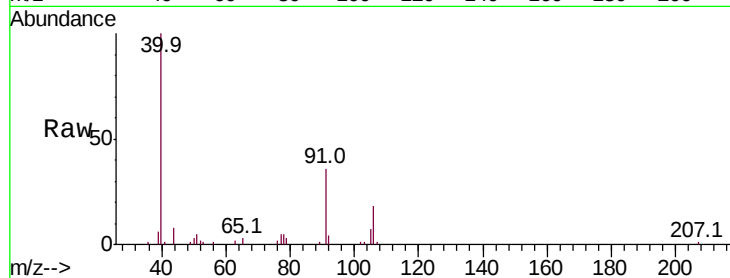
HR-05-031519-B

Tot Ion:106 Resp: 4601

Ion Ratio Lower Upper

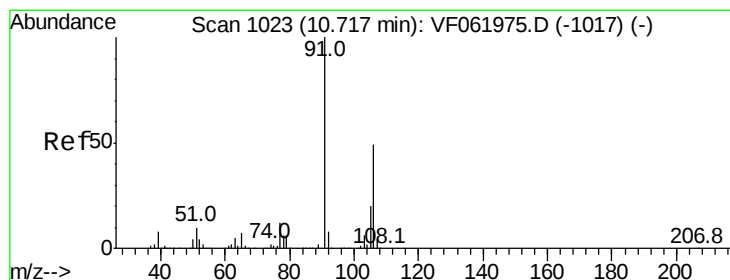
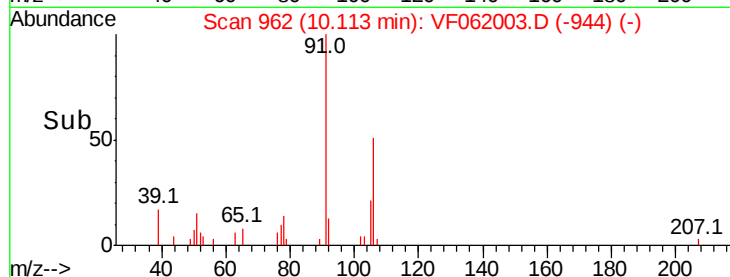
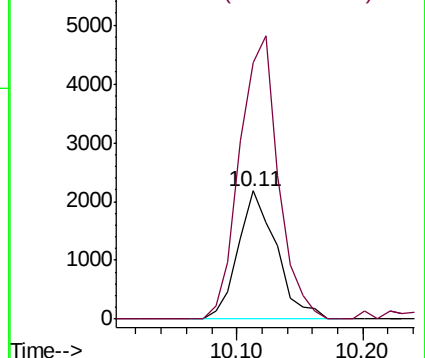
106 100

91 199.5 151.9 227.9



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VF0



#69

o-Xylene

Concen: 102.859 ug/l

RT: 10.70 min Scan# 1022

Delta R.T. -0.01 min

Lab File: VF062003.D

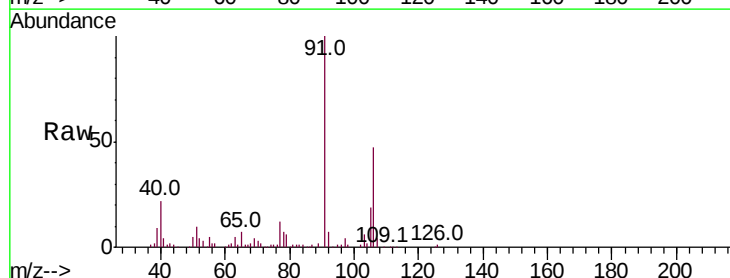
Acq: 18 Mar 2019 17:58

Tgt Ion:106 Resp: 51787

Ion Ratio Lower Upper

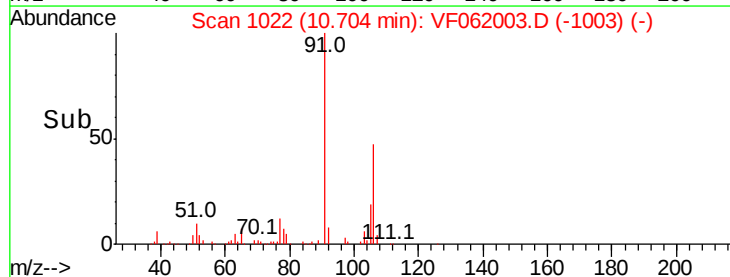
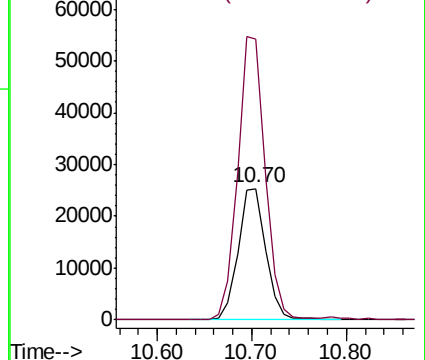
106 100

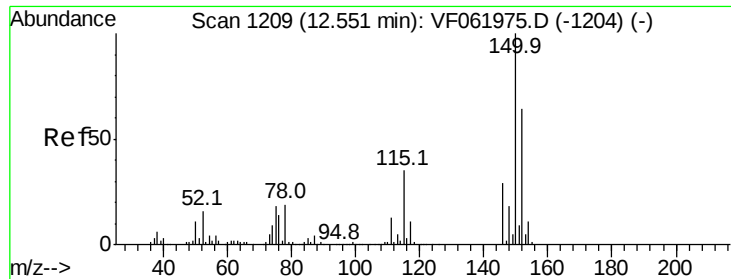
91 213.7 102.3 306.8



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VF0



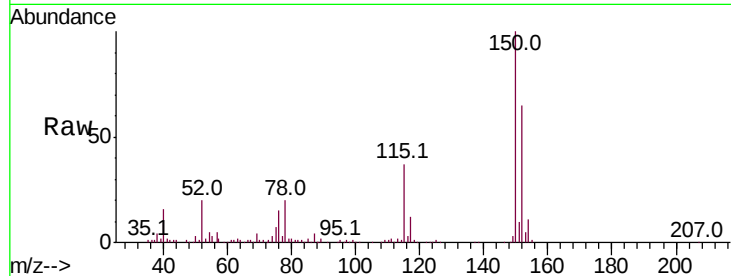


#72

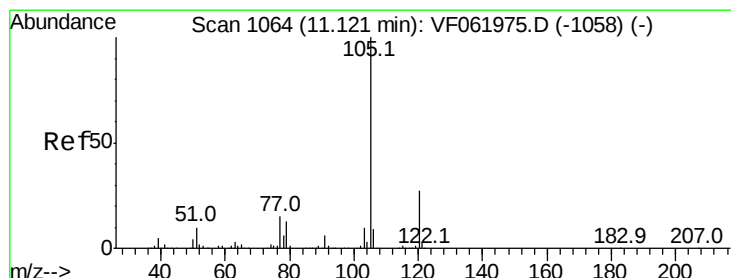
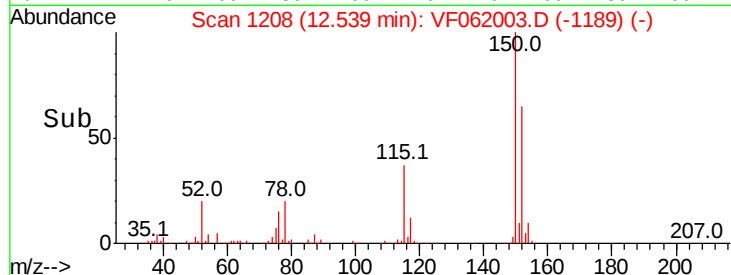
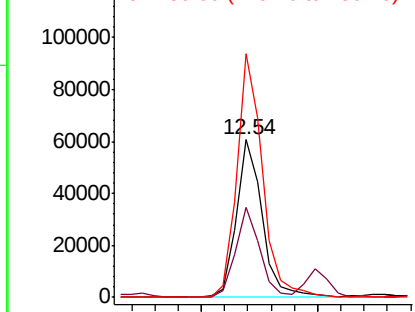
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 12.54 min Scan# 1208  
Delta R.T. -0.01 min  
Lab File: VF062003.D  
Acq: 18 Mar 2019 17:58

Instrument :  
MSVOA\_F  
ClientSampleId :  
HR-05-031519-B

Tot Ion:152 Resp: 93366  
Ion Ratio Lower Upper  
152 100  
115 56.8 27.3 81.9  
150 154.5 0.0 316.2



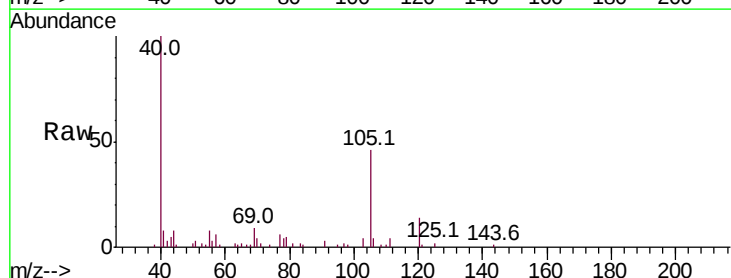
Abundance Ion 152.00 (151.70 to 152.70): V  
Ion 115.00 (114.70 to 115.70): V  
Ion 150.00 (149.70 to 150.70): V



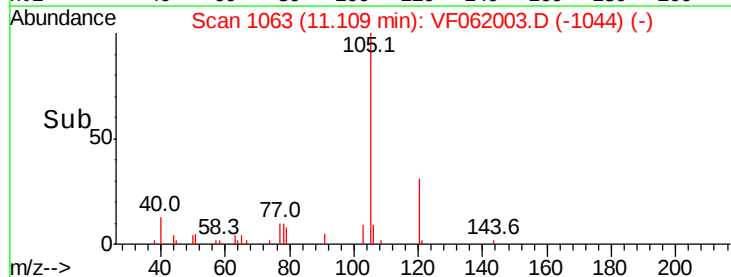
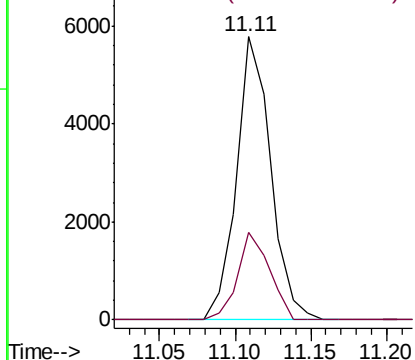
#73

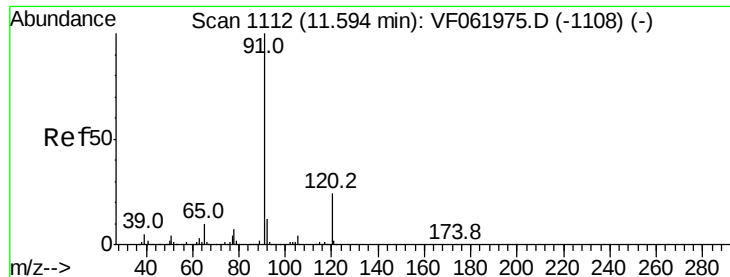
Isopropylbenzene  
Concen: 1.402 ug/l  
RT: 11.11 min Scan# 1063  
Delta R.T. -0.01 min  
Lab File: VF062003.D  
Acq: 18 Mar 2019 17:58

Tgt Ion:105 Resp: 9041  
Ion Ratio Lower Upper  
105 100  
120 30.7 13.8 41.3



Abundance Ion 105.00 (104.70 to 105.70): V  
Ion 120.00 (119.70 to 120.70): V





#78

n-propylbenzene

Concen: 2.150 ug/l

RT: 11.58 min Scan# 1111

Delta R.T. -0.01 min

Lab File: VF062003.D

Acq: 18 Mar 2019 17:58

Instrument :

MSVOA\_F

ClientSampleId :

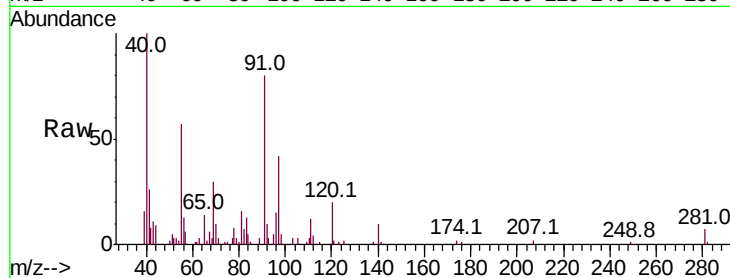
HR-05-031519-B

Tot Ion: 91 Resp: 15949

Ion Ratio Lower Upper

91 100

120 24.9 11.8 35.3



Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 120.00 (119.70 to 120.70): V

11.58

10000

8000

6000

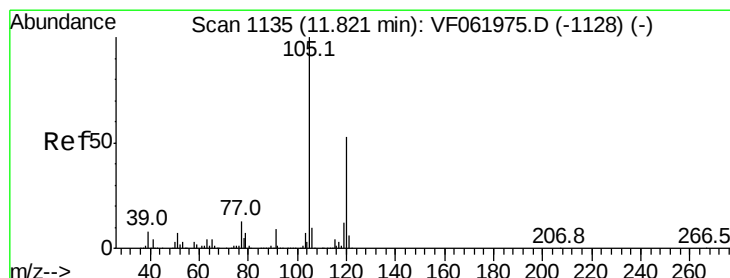
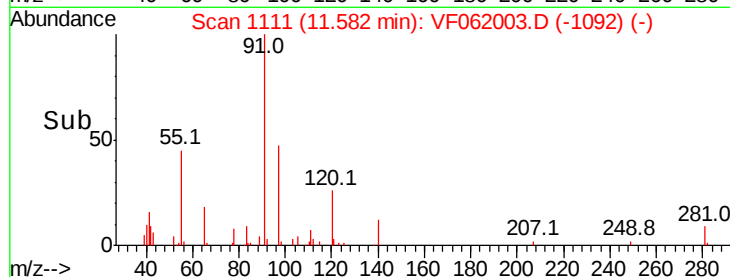
4000

2000

0

11.50 11.55 11.60 11.65

Time-->



#80

1,3,5-Trimethylbenzene

Concen: 32.272 ug/l

RT: 11.81 min Scan# 1134

Delta R.T. -0.01 min

Lab File: VF062003.D

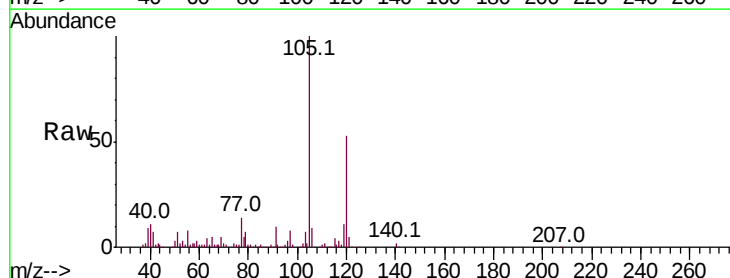
Acq: 18 Mar 2019 17:58

Tgt Ion:105 Resp: 168154

Ion Ratio Lower Upper

105 100

120 52.8 26.6 79.7



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

11.81

120000

100000

80000

60000

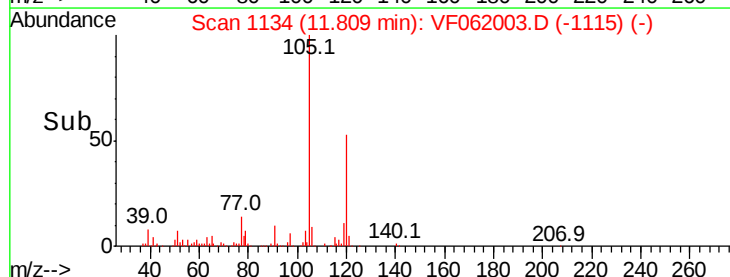
40000

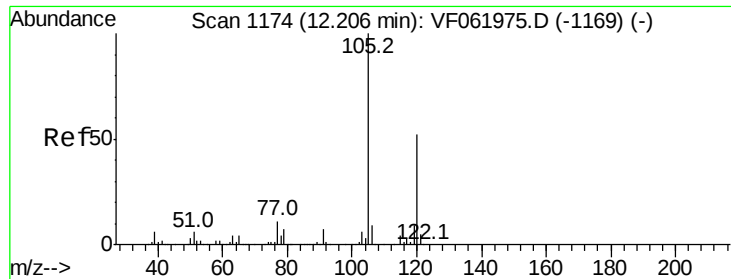
20000

0

11.70 11.80 11.90 12.00

Time-->

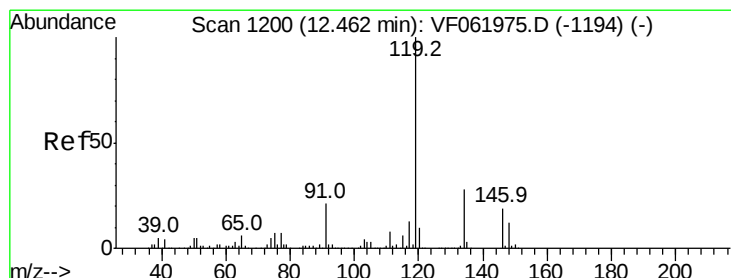
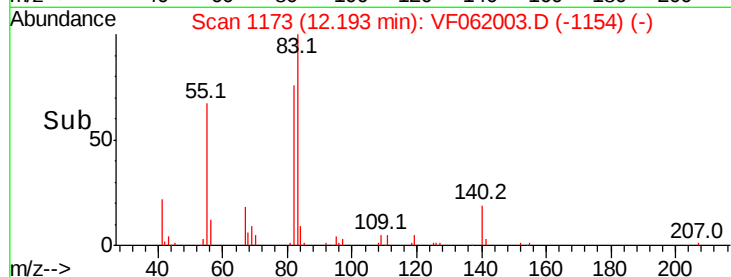
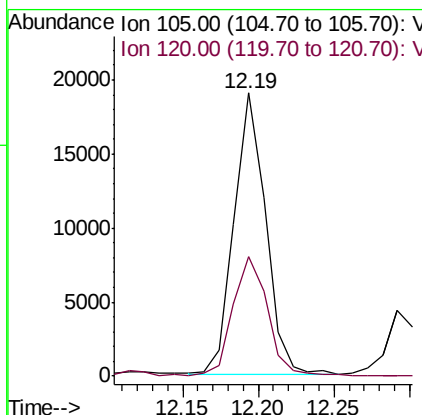
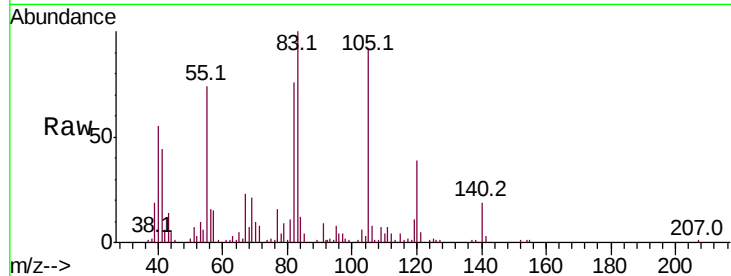




#84  
 1,2,4-Trimethylbenzene  
 Concen: 5.315 ug/l  
 RT: 12.19 min Scan# 1173  
 Delta R.T. -0.01 min  
 Lab File: VF062003.D  
 Acq: 18 Mar 2019 17:58

Instrument :  
 MSVOA\_F  
 ClientSampleId :  
 HR-05-031519-B

Tot Ion:105 Resp: 27741  
 Ion Ratio Lower Upper  
 105 100  
 120 42.4 25.9 77.8



#86  
 p-Isopropyltoluene  
 Concen: 4.003 ug/l m  
 RT: 12.45 min Scan# 1199  
 Delta R.T. -0.01 min  
 Lab File: VF062003.D  
 Acq: 18 Mar 2019 17:58

Tgt Ion:119 Resp: 24589  
 Ion Ratio Lower Upper  
 119 100  
 134 28.6 13.9 41.7  
 91 22.1 10.4 31.1

