

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF121118\  
 Data File : VF060983.D  
 Acq On : 11 Dec 2018 18:27  
 Operator : VA/AP  
 Sample : J6195-05  
 Misc : 4.73q/5mL/MSVOA-F/SOIL  
 ALS Vial : 13 Sample Multiplier: 1

Instrument :  
 MSVOA\_F  
 ClientSampleId :  
 OR-02-121018-A

Manual Integrations  
 APPROVED

MMDadoda  
 12/12/2018 1:28:59 PM

Quant Time: Dec 12 07:06:23 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_F\METHODS\82F112618S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Nov 27 01:36:26 2018  
 Response via : Initial Calibration

| Internal Standards          | R.T.  | QIon | Response | Conc   | Units   | Dev(Min) |
|-----------------------------|-------|------|----------|--------|---------|----------|
| 1) Pentafluorobenzene       | 4.88  | 168  | 215868   | 50.00  | ug/l    | -0.03    |
| 34) 1,4-Difluorobenzene     | 5.60  | 114  | 387795   | 50.00  | ug/l    | -0.04    |
| 63) Chlorobenzene-d5        | 9.78  | 117  | 337407   | 50.00  | ug/l    | -0.03    |
| 72) 1,4-Dichlorobenzene-d4  | 12.55 | 152  | 160403   | 50.00  | ug/l    | -0.02    |
| System Monitoring Compounds |       |      |          |        |         |          |
| 33) 1,2-Dichloroethane-d4   | 4.85  | 65   | 130940   | 51.49  | ug/l    | -0.03    |
| Spiked Amount 50.000        |       |      | Recovery | =      | 102.98% |          |
| 35) Dibromofluoromethane    | 4.12  | 113  | 144035   | 46.82  | ug/l    | -0.03    |
| Spiked Amount 50.000        |       |      | Recovery | =      | 93.64%  |          |
| 50) Toluene-d8              | 7.56  | 98   | 341128   | 37.64  | ug/l    | -0.03    |
| Spiked Amount 50.000        |       |      | Recovery | =      | 75.28%  |          |
| 62) 4-Bromofluorobenzene    | 11.42 | 95   | 161284   | 39.16  | ug/l    | -0.02    |
| Spiked Amount 50.000        |       |      | Recovery | =      | 78.32%  |          |
| Target Compounds            |       |      |          |        |         |          |
| 16) Acetone                 | 2.25  | 43   | 27764    | 59.205 | ug/l #  | 92       |
| 20) Methylene Chloride      | 2.24  | 84   | 12753m   | 7.413  | ug/l    |          |
| 52) Toluene                 | 7.62  | 92   | 7746     | 1.161  | ug/l    | 82       |
| 95) Naphthalene             | 14.46 | 128  | 115604   | 14.548 | ug/l    | 99       |

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

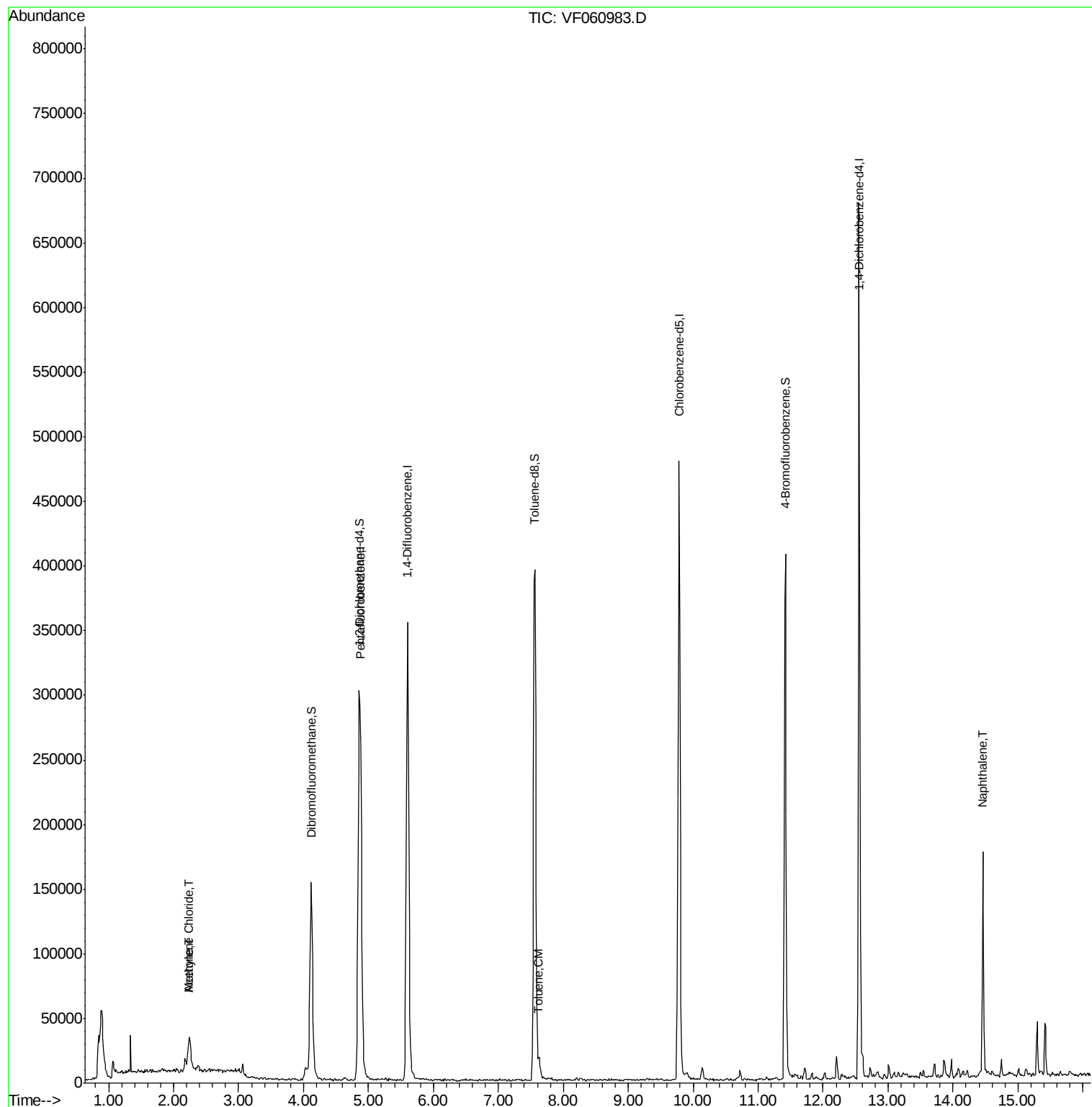
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA F\DATA\VF121118\  
Data File : VF060983.D  
Acq On : 11 Dec 2018 18:27  
Operator : VA/AP  
Sample : J6195-05  
Misc : 4.73q/5mL/MSVOA-F/SOIL  
ALS Vial : 13 Sample Multiplier: 1

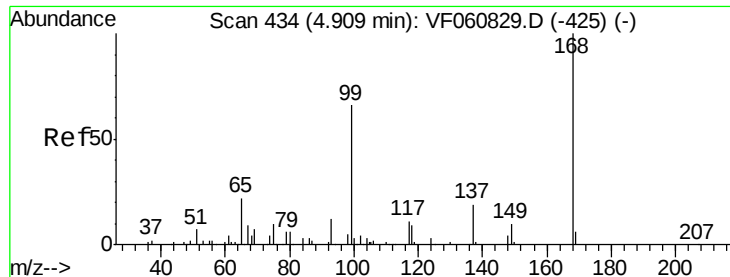
Instrument :  
MSVOA\_F  
ClientSampleId :  
OR-02-121018-A

Manual Integrations  
APPROVED

MMDadoda  
12/12/2018 1:28:59 PM

Quant Time: Dec 12 07:06:23 2018  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_F\METHODS\82F112618S.M  
Quant Title : SW846 8260  
QLast Update : Tue Nov 27 01:36:26 2018  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.88 min Scan# 431

Delta R.T. -0.03 min

Lab File: VF060983.D

Acq: 11 Dec 2018 18:27

Instrument :

MSVOA\_F

ClientSampleId :

OR-02-121018-A

Tot Ion:168 Resp: 215868

Ion Ratio Lower Upper

168 100

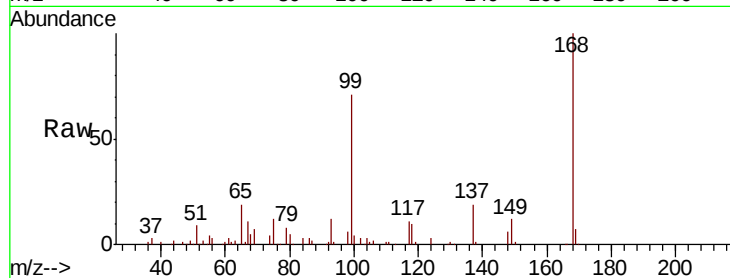
99 71.1 52.6 79.0

Manual Integrations

APPROVED

MMDadoda

12/12/2018 1:28:59 PM



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

4.88

60000

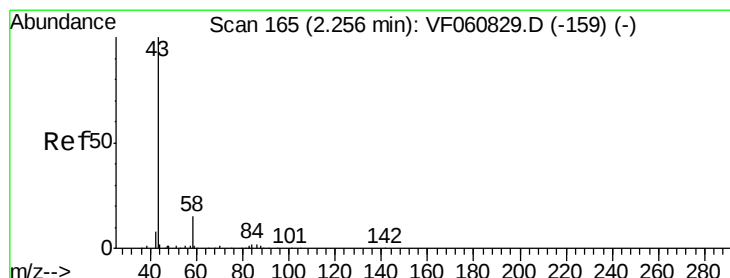
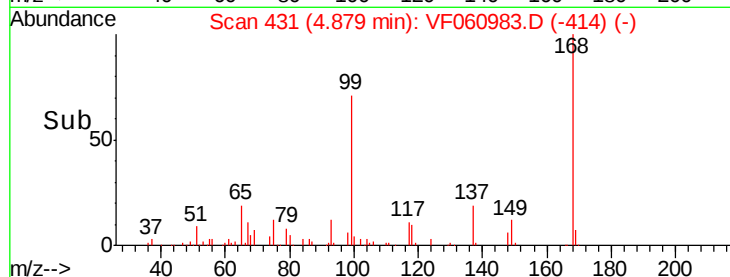
40000

20000

0

4.70 4.80 4.90 5.00 5.10

Time-->



#16

Acetone

Concen: 59.205 ug/l

RT: 2.25 min Scan# 164

Delta R.T. -0.01 min

Lab File: VF060983.D

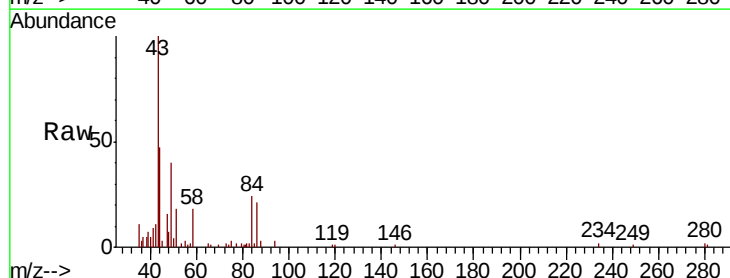
Acq: 11 Dec 2018 18:27

Tgt Ion: 43 Resp: 27764

Ion Ratio Lower Upper

43 100

58 17.8 11.4 17.2#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

2.25

10000

8000

6000

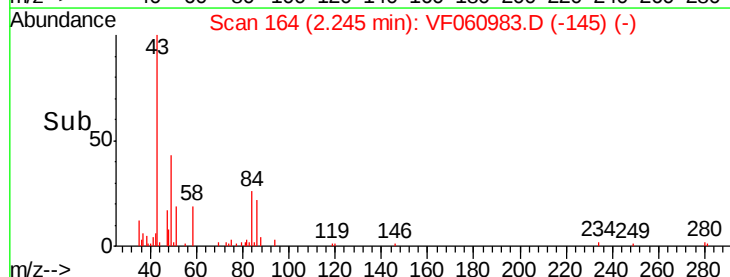
4000

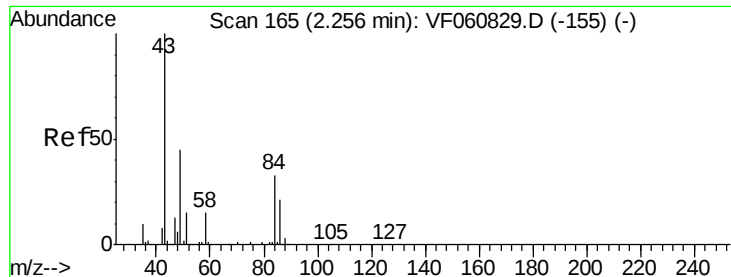
2000

0

2.10 2.20 2.30 2.40

Time-->





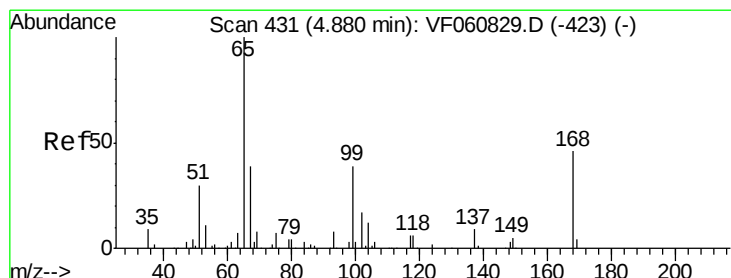
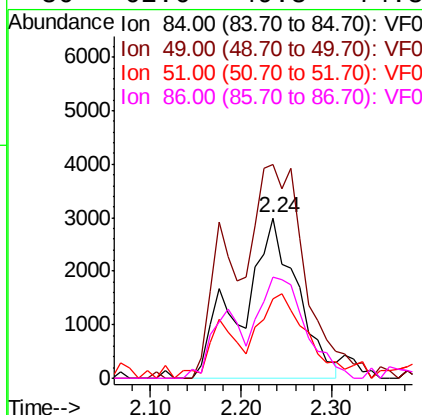
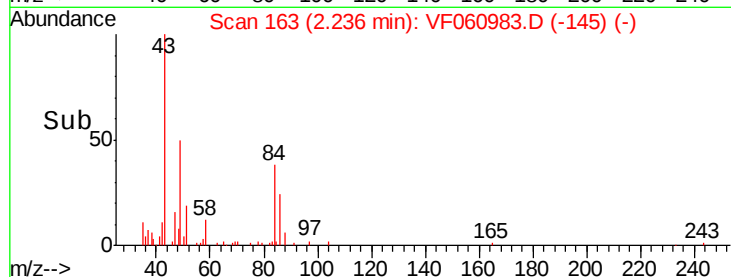
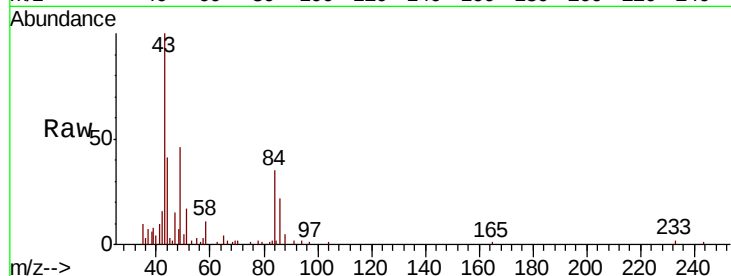
#20  
Methvlene Chloride  
Concen: 7.413 ug/l m  
RT: 2.24 min Scan# 163  
Delta R.T. -0.02 min  
Lab File: VF060983.D  
Acq: 11 Dec 2018 18:27

Instrument :  
MSVOA\_F  
ClientSampleId :  
OR-02-121018-A

Tot Ion: 84 Resp: 12753  
Ion Ratio Lower Upper  
84 100  
49 133.0 111.3 166.9  
51 49.4 38.0 57.0  
86 62.6 49.8 74.8

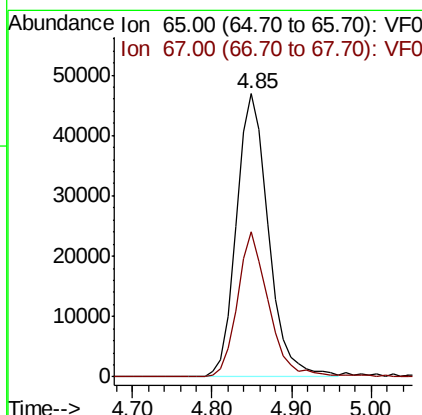
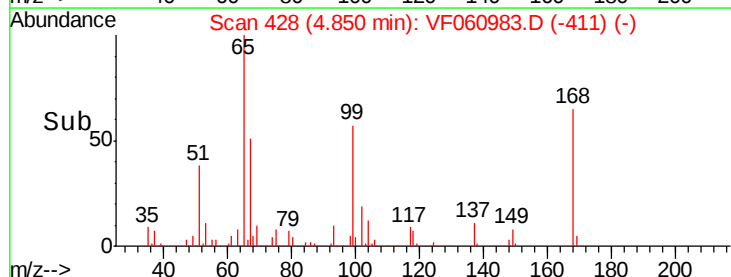
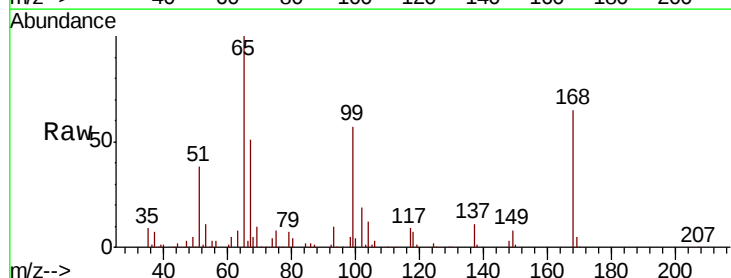
Manual Integrations  
APPROVED

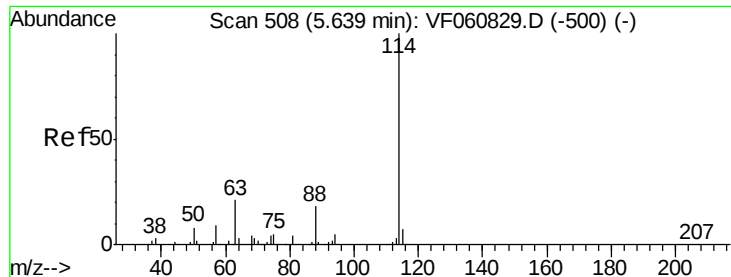
MMDadoda  
12/12/2018 1:28:59 PM



#33  
1,2-Dichloroethane-d4  
Concen: 51.490 ug/l  
RT: 4.85 min Scan# 428  
Delta R.T. -0.03 min  
Lab File: VF060983.D  
Acq: 11 Dec 2018 18:27

Tgt Ion: 65 Resp: 130940  
Ion Ratio Lower Upper  
65 100  
67 51.5 0.0 96.4





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.60 min Scan# 504

Delta R.T. -0.04 min

Lab File: VF060983.D

Acq: 11 Dec 2018 18:27

Instrument :

MSVOA\_F

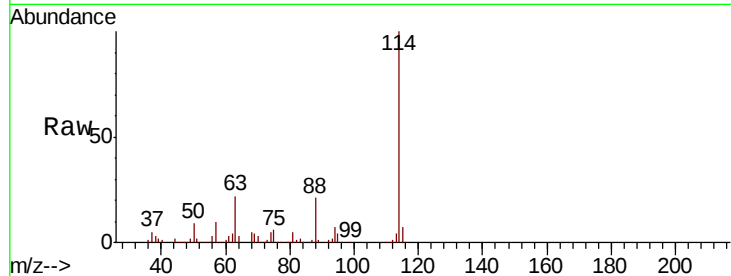
ClientSampleId :

OR-02-121018-A

| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 114     | 100   | 387795 |       |       |
| 63      | 22.0  |        | 0.0   | 41.6  |
| 88      | 21.4  |        | 0.0   | 36.6  |

Manual Integrations  
APPROVED

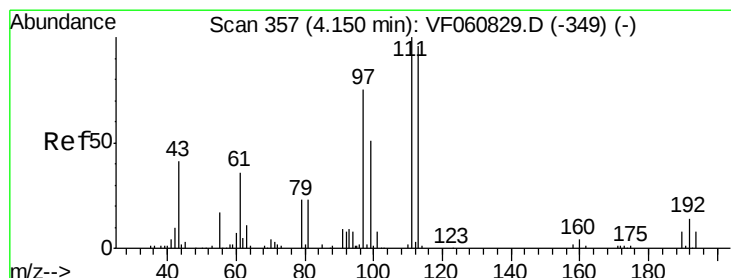
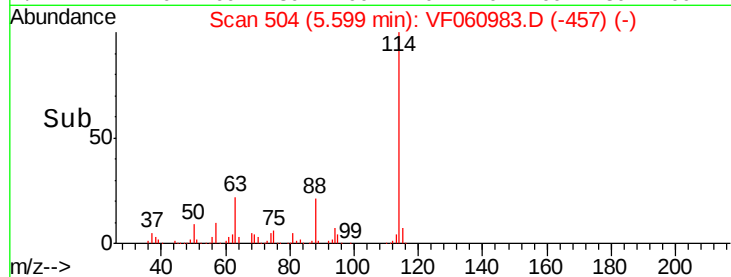
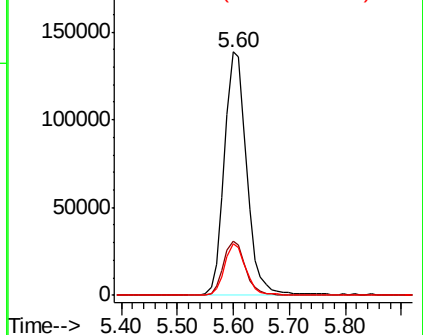
MMDadoda  
12/12/2018 1:28:59 PM



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: 46.818 ug/l

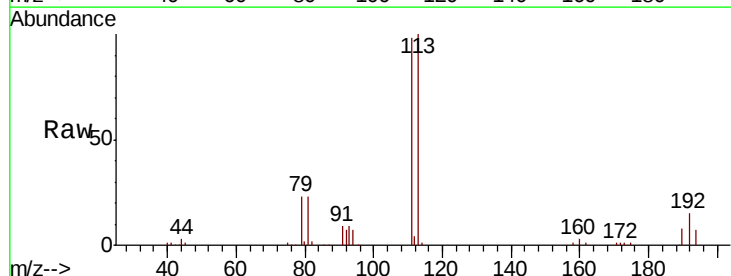
RT: 4.12 min Scan# 354

Delta R.T. -0.03 min

Lab File: VF060983.D

Acq: 11 Dec 2018 18:27

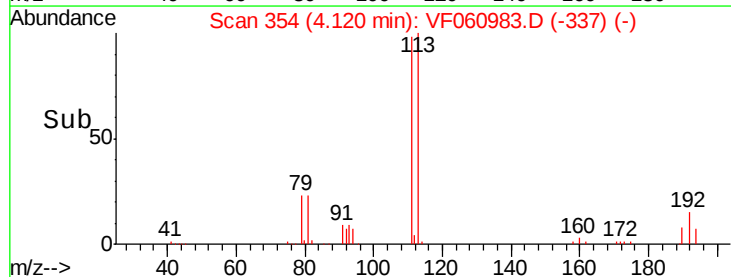
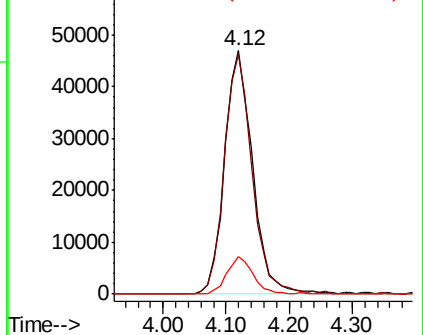
| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 113     | 100   | 144035 |       |       |
| 111     | 98.4  |        | 83.0  | 124.6 |
| 192     | 15.3  |        | 12.3  | 18.5  |

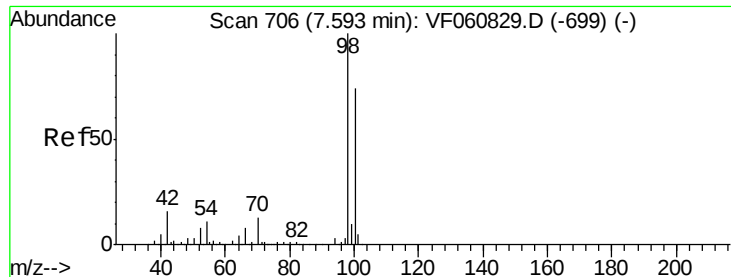


Abundance Ion 113.00 (112.70 to 113.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 192.00 (191.70 to 192.70): V





#50

Toluene-d8

Concen: 37.642 ug/l

RT: 7.56 min Scan# 703

Delta R.T. -0.03 min

Lab File: VF060983.D

Acq: 11 Dec 2018 18:27

Instrument :

MSVOA\_F

ClientSampleId :

OR-02-121018-A

Tot Ion: 98 Resp: 341128

Ion Ratio Lower Upper

98 100

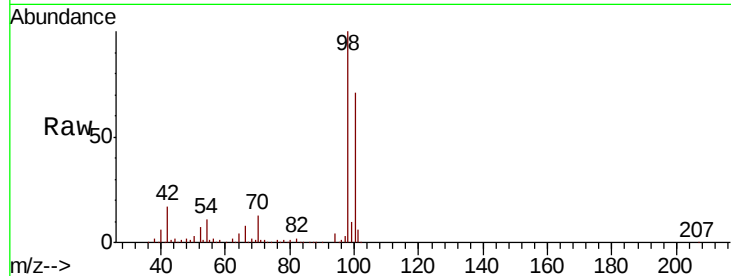
100 71.1 59.3 88.9

Manual Integrations

APPROVED

MMDadoda

12/12/2018 1:28:59 PM



Abundance Ion 98.00 (97.70 to 98.70): VF0

Ion 100.00 (99.70 to 100.70): VF

150000

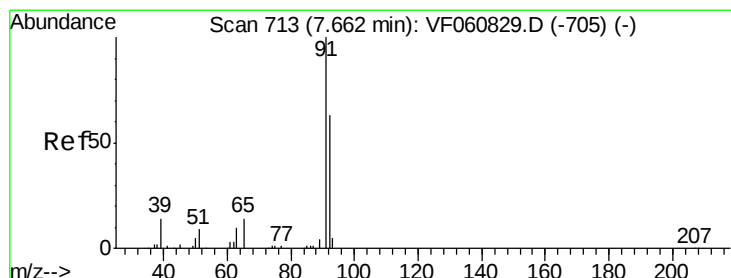
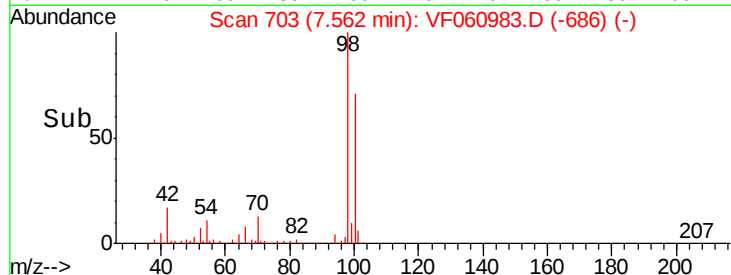
100000

50000

0

7.40 7.50 7.60 7.70

Time-->



#52

Toluene

Concen: 1.161 ug/l

RT: 7.62 min Scan# 709

Delta R.T. -0.04 min

Lab File: VF060983.D

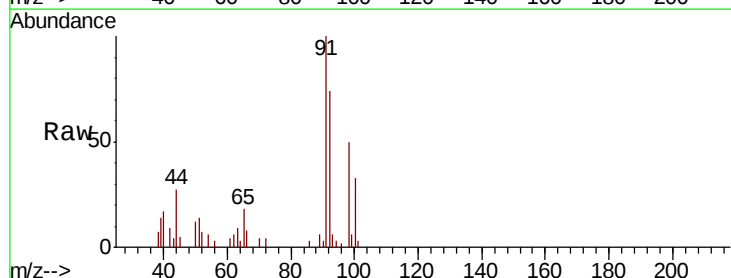
Acq: 11 Dec 2018 18:27

Tgt Ion: 92 Resp: 7746

Ion Ratio Lower Upper

92 100

91 134.3 126.2 189.2



Abundance Ion 92.00 (91.70 to 92.70): VF0

Ion 91.00 (90.70 to 91.70): VF0

6000

5000

4000

3000

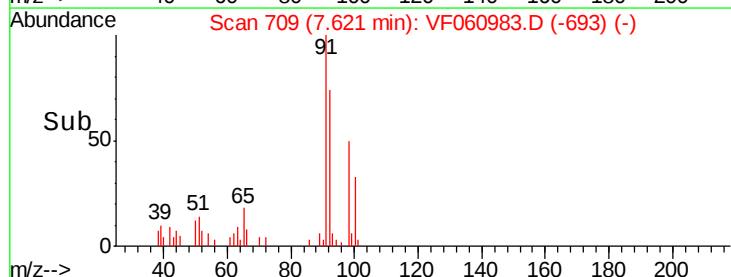
2000

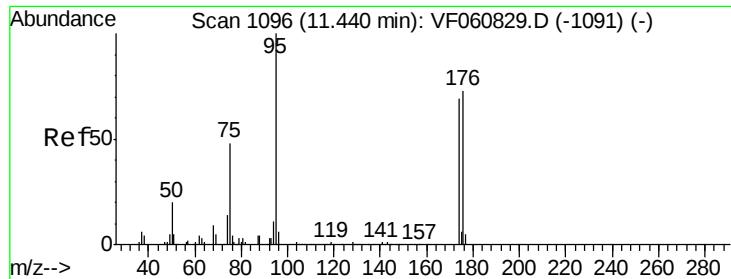
1000

0

7.60 7.62 7.64 7.66 7.68 7.70

Time-->





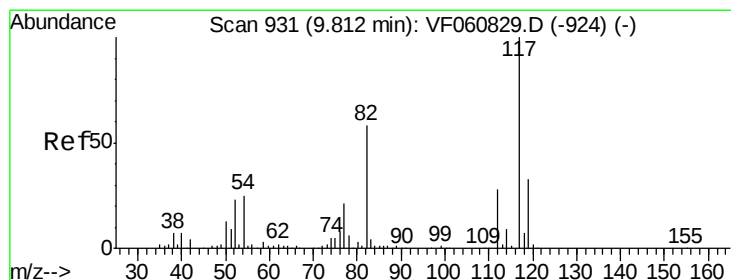
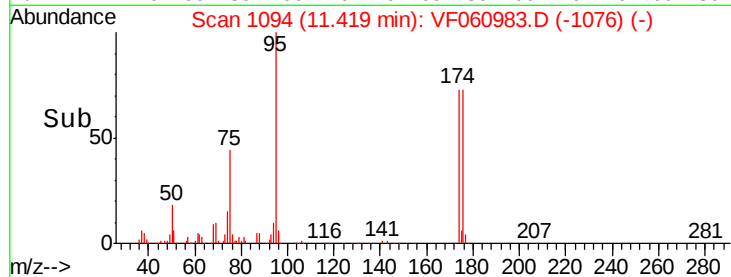
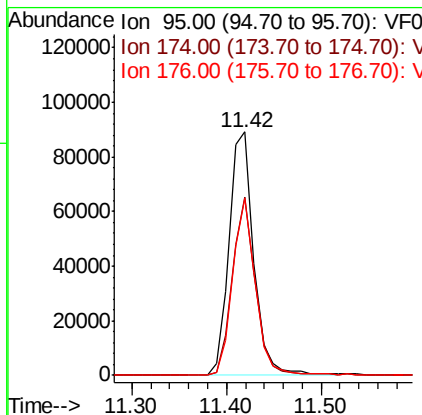
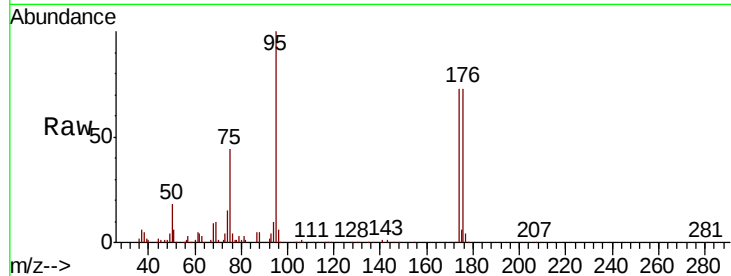
#62  
4-Bromofluorobenzene  
Concen: 39.159 ug/l  
RT: 11.42 min Scan# 1094  
Delta R.T. -0.02 min  
Lab File: VF060983.D  
Acq: 11 Dec 2018 18:27

Instrument :  
MSVOA\_F  
ClientSampleId :  
OR-02-121018-A

| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 95      | 100   | 161284 |       |       |
| 174     | 73.4  | 0.0    | 138.2 |       |
| 176     | 72.7  | 0.0    | 146.2 |       |

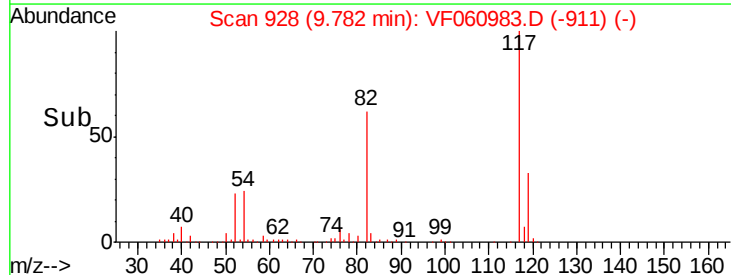
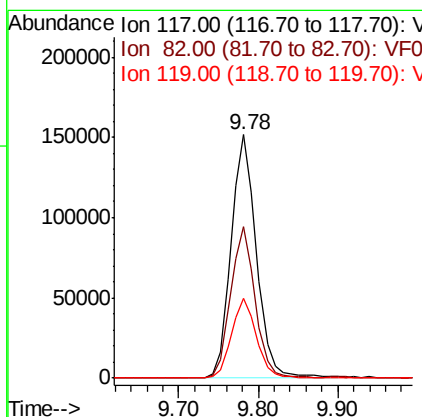
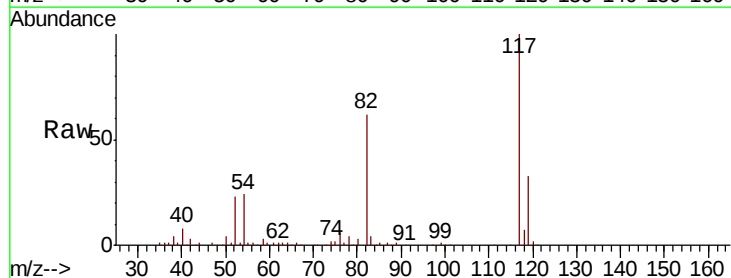
Manual Integrations  
APPROVED

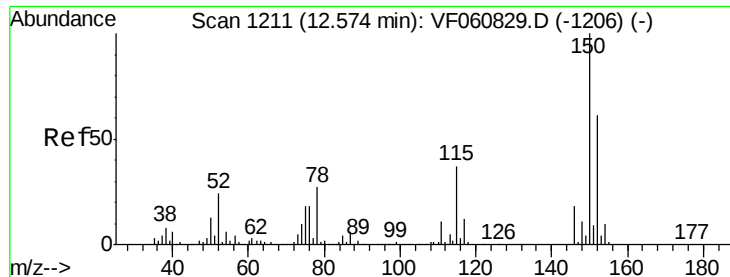
MMDadoda  
12/12/2018 1:28:59 PM



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 9.78 min Scan# 928  
Delta R.T. -0.03 min  
Lab File: VF060983.D  
Acq: 11 Dec 2018 18:27

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 117     | 100   | 337407 |       |       |
| 82      | 62.0  | 46.6   | 69.8  |       |
| 119     | 32.9  | 26.4   | 39.6  |       |





#72

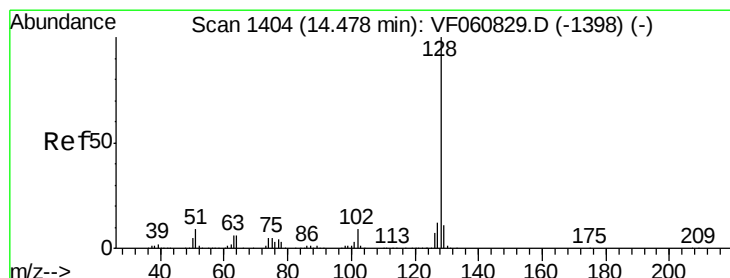
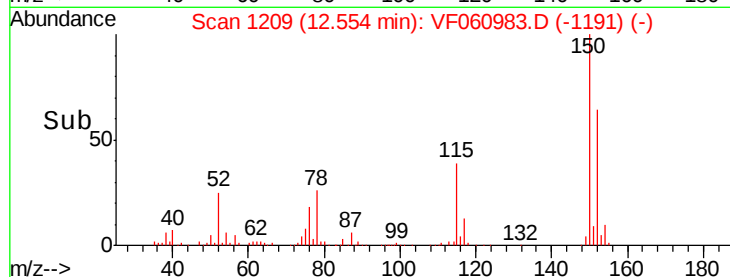
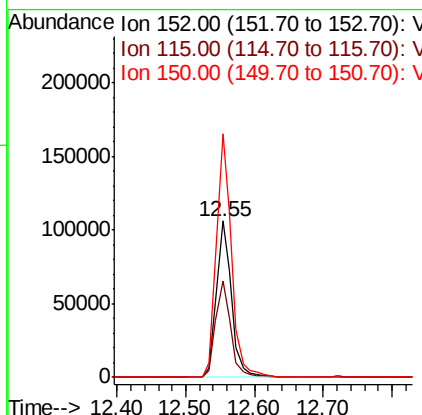
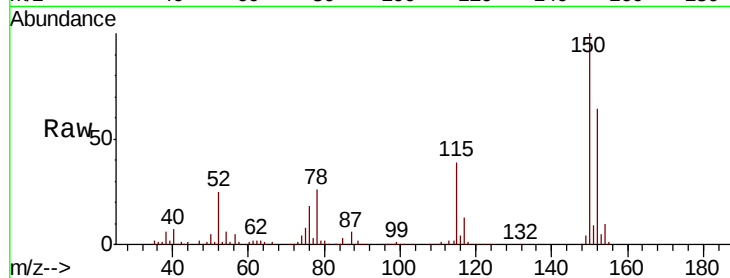
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 12.55 min Scan# 1209  
Delta R.T. -0.02 min  
Lab File: VF060983.D  
Acq: 11 Dec 2018 18:27

Instrument :  
MSVOA\_F  
ClientSampleId :  
OR-02-121018-A

| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 152     | 100   | 160403 |       |       |
| 115     | 61.4  | 30.1   | 90.5  |       |
| 150     | 156.0 | 0.0    | 327.6 |       |

Manual Integrations  
APPROVED

MMDadoda  
12/12/2018 1:28:59 PM



#95

Naphthalene  
Concen: 14.548 ug/l  
RT: 14.46 min Scan# 1402  
Delta R.T. -0.02 min  
Lab File: VF060983.D  
Acq: 11 Dec 2018 18:27

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 128     | 100   | 115604 |       |       |
| 127     | 12.5  | 9.9    | 14.9  |       |
| 129     | 11.9  | 9.1    | 13.7  |       |

