

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF032019\  
 Data File : VF062037.D  
 Acq On : 20 Mar 2019 13:46  
 Operator : VA/AP  
 Sample : K1971-01RE  
 Misc : 5.56g/5mL/MSVOA-F/SOIL  
 ALS Vial : 7 Sample Multiplier: 1

Instrument :  
 MSVOA\_F  
 ClientSampleId :  
 SB-8(9-10)-031519RE

Manual Integrations  
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 3/22/2019 4:51:44 PM

Quant Time: Mar 22 07:06:55 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       | 4.85  | 168  | 130038   | 50.00  | ug/l    | -0.02    |
| 34) 1,4-Difluorobenzene     | 5.58  | 114  | 220619   | 50.00  | ug/l    | -0.02    |
| 63) Chlorobenzene-d5        | 9.76  | 117  | 66087    | 50.00  | ug/l    | -0.01    |
| 72) 1,4-Dichlorobenzene-d4  | 12.54 | 152  | 20680    | 50.00  | ug/l    | -0.01    |
| System Monitoring Compounds |       |      |          |        |         |          |
| 33) 1,2-Dichloroethane-d4   | 4.82  | 65   | 82139    | 87.75  | ug/l    | -0.02    |
| Spiked Amount 50.000        |       |      | Recovery | =      | 175.50% |          |
| 35) Dibromofluoromethane    | 4.09  | 113  | 103648   | 69.96  | ug/l    | -0.02    |
| Spiked Amount 50.000        |       |      | Recovery | =      | 139.92% |          |
| 50) Toluene-d8              | 7.54  | 98   | 281114   | 64.91  | ug/l    | -0.01    |
| Spiked Amount 50.000        |       |      | Recovery | =      | 129.82% |          |
| 62) 4-Bromofluorobenzene    | 11.37 | 95   | 112988   | 65.67  | ug/l    | -0.04    |
| Spiked Amount 50.000        |       |      | Recovery | =      | 131.34% |          |
| Target Compounds            |       |      |          |        |         |          |
| 16) Acetone                 | 2.23  | 43   | 12138    | 57.746 | ug/l    | 96       |
| 20) Methylene Chloride      | 2.25  | 84   | 10376m   | 9.588  | ug/l    |          |
| 83) tert-Butylbenzene       | 12.13 | 119  | 25883m   | 21.445 | ug/l    |          |

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

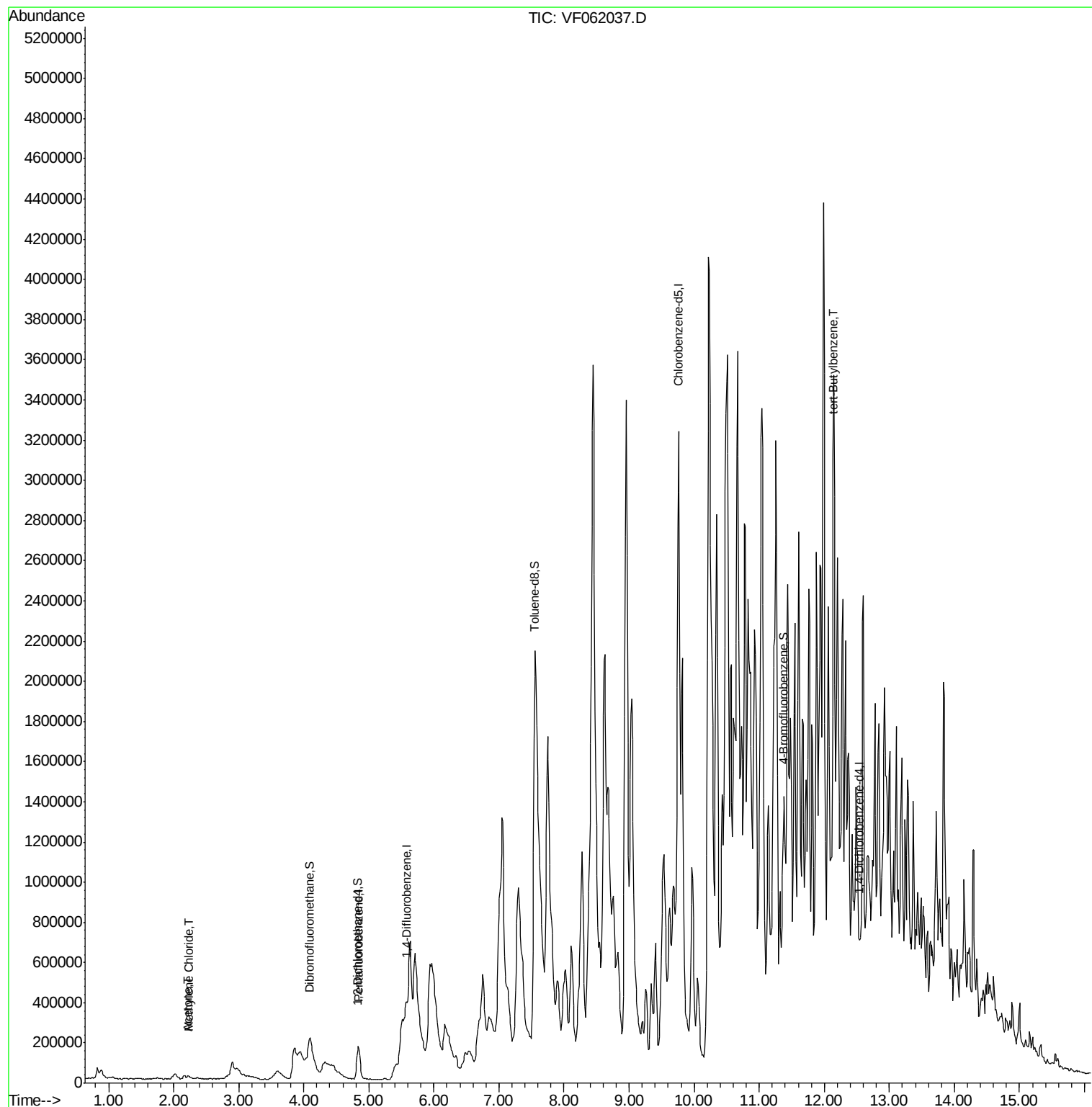
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA F\DATA\VF032019\  
Data File : VF062037.D  
Acq On : 20 Mar 2019 13:46  
Operator : VA/AP  
Sample : K1971-01RE  
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ALS Vial : 7 Sample Multiplier: 1

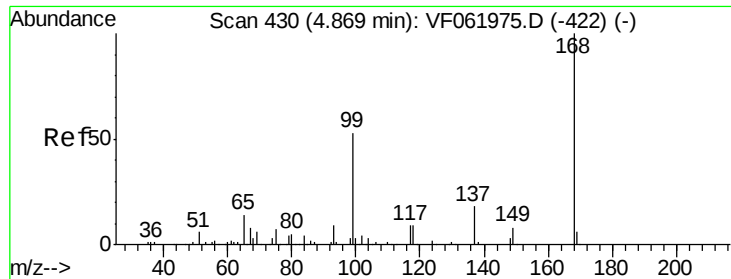
Instrument :  
MSVOA\_F  
ClientSampleId :  
SB-8(9-10)-031519RE

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Quant Time: Mar 22 07:06:55 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: 4.85 min Scan# 428

Delta R.T. -0.02 min

Lab File: VF062037.D

Acq: 20 Mar 2019 13:46

Instrument :

MSVOA\_F

ClientSampleId :

SB-8(9-10)-031519RE

Tot Ion:168 Resp: 130038

Ion Ratio Lower Upper

168 100

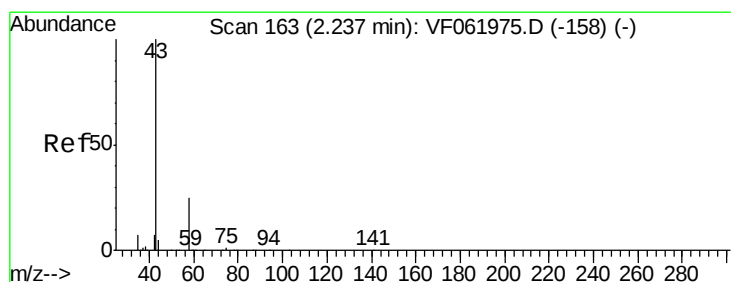
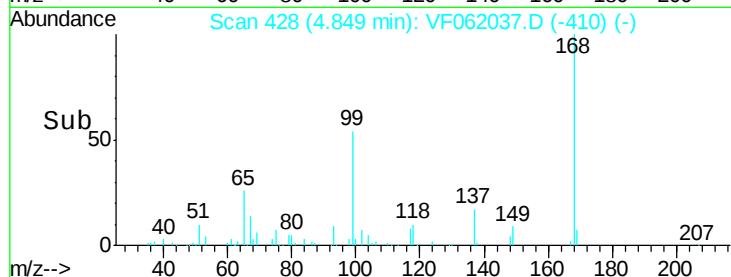
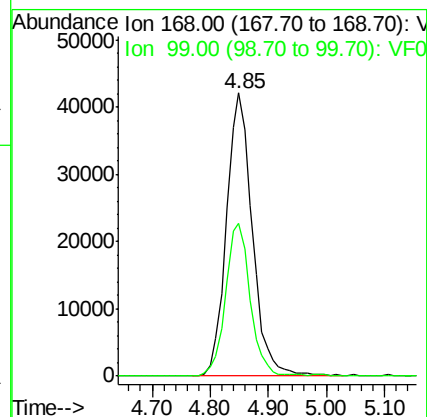
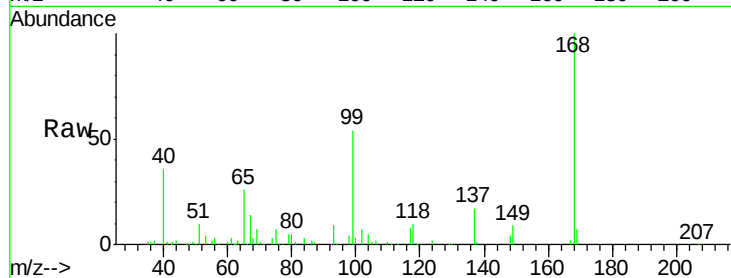
99 54.2 42.4 63.6

Manual Integrations

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#16

Acetone

Concen: 57.746 ug/l

RT: 2.23 min Scan# 162

Delta R.T. -0.01 min

Lab File: VF062037.D

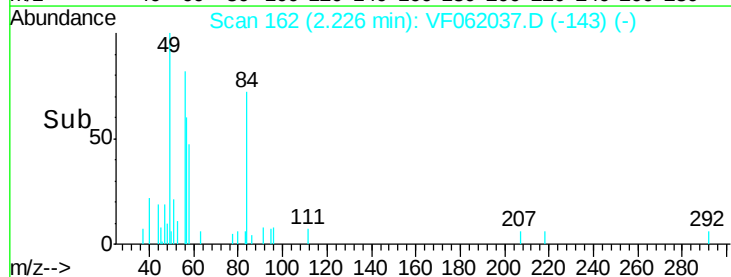
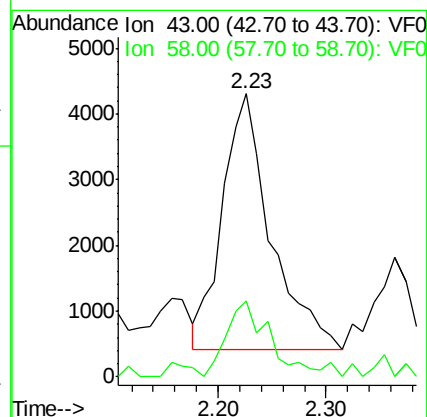
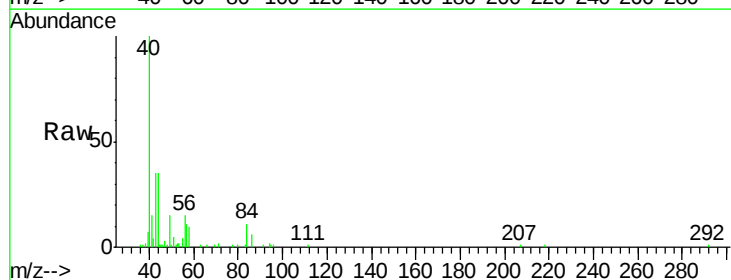
Acq: 20 Mar 2019 13:46

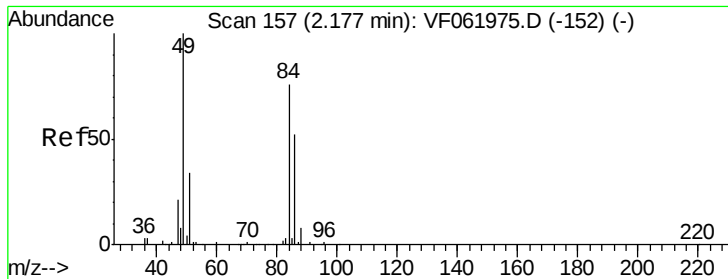
Tgt Ion: 43 Resp: 12138

Ion Ratio Lower Upper

43 100

58 27.0 19.9 29.9





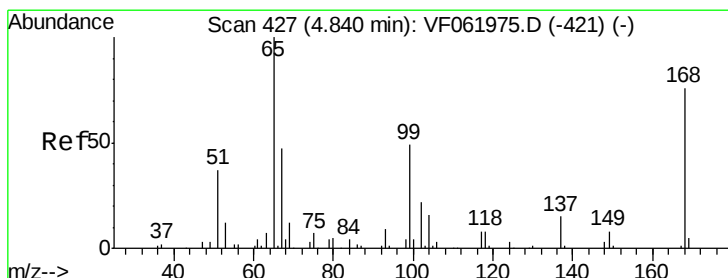
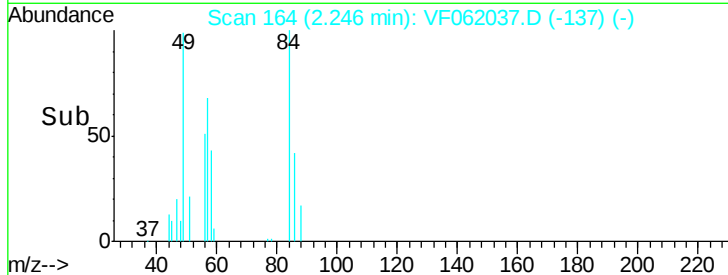
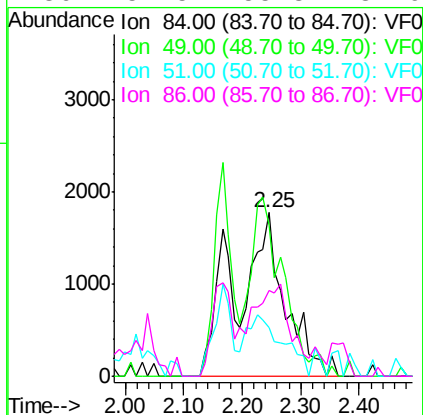
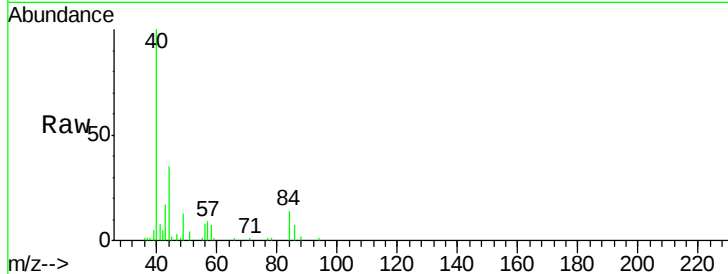
#20  
Methvlene Chloride  
Concen: 9.588 ug/l m  
RT: 2.25 min Scan# 164  
Delta R.T. 0.07 min  
Lab File: VF062037.D  
Acq: 20 Mar 2019 13:46

Instrument :  
MSVOA\_F  
ClientSampleId :  
SB-8(9-10)-031519RE

| Tot Ion | Ratio | Lower | Upper  |
|---------|-------|-------|--------|
| 84      | 100   |       |        |
| 49      | 92.8  | 107.0 | 160.6# |
| 51      | 29.7  | 37.2  | 55.8#  |
| 86      | 52.5  | 55.3  | 82.9#  |

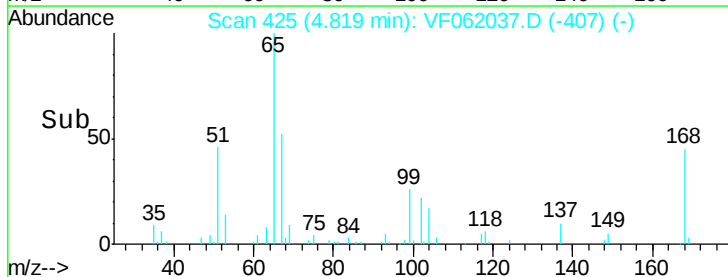
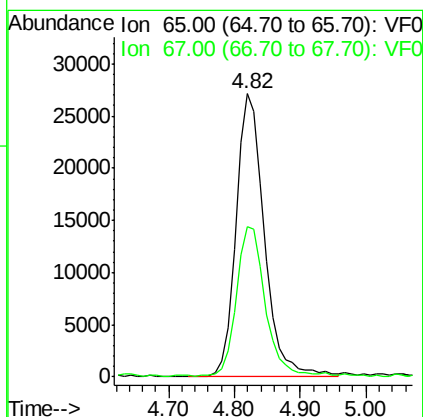
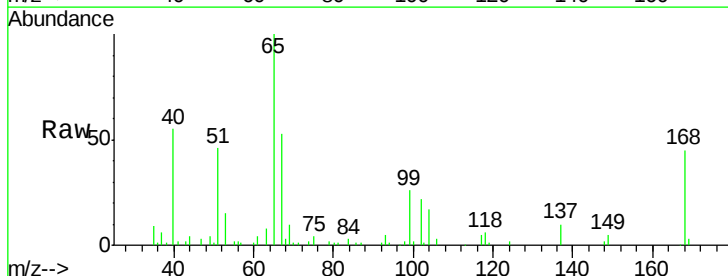
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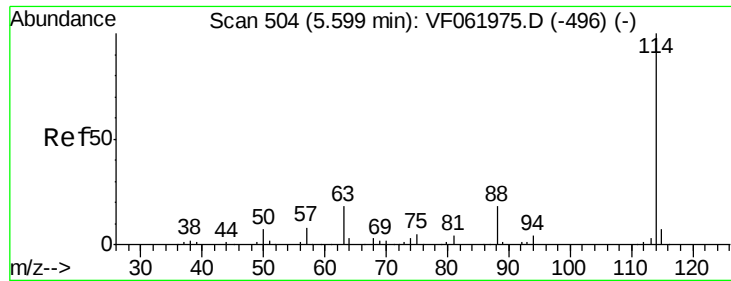
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#33  
1,2-Dichloroethane-d4  
Concen: 87.749 ug/l  
RT: 4.82 min Scan# 425  
Delta R.T. -0.02 min  
Lab File: VF062037.D  
Acq: 20 Mar 2019 13:46

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 65      | 100   |       |       |
| 67      | 53.1  | 0.0   | 109.4 |





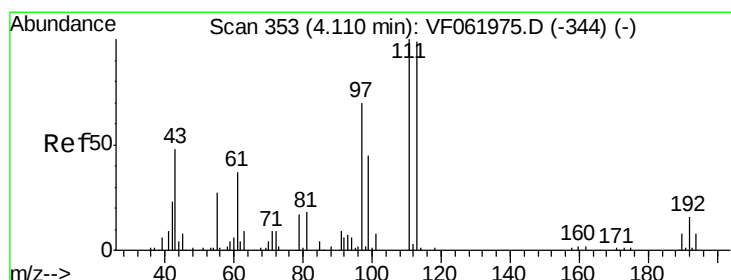
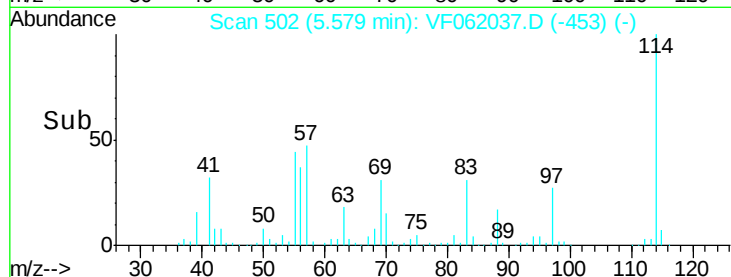
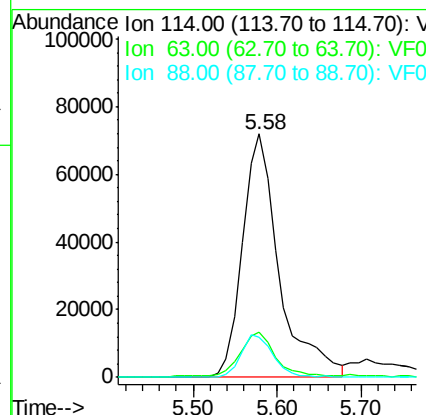
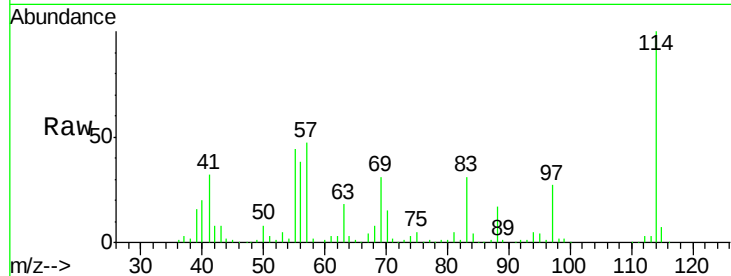
#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 5.58 min Scan# 502  
 Delta R.T. -0.02 min  
 Lab File: VF062037.D  
 Acq: 20 Mar 2019 13:46

Instrument :  
 MSVOA\_F  
 ClientSampleId :  
 SB-8(9-10)-031519RE

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 114   | Resp: | 220619 |
| Ion Ratio | Lower | Upper |        |
| 114       | 100   |       |        |
| 63        | 18.3  | 0.0   | 36.4   |
| 88        | 16.7  | 0.0   | 36.4   |

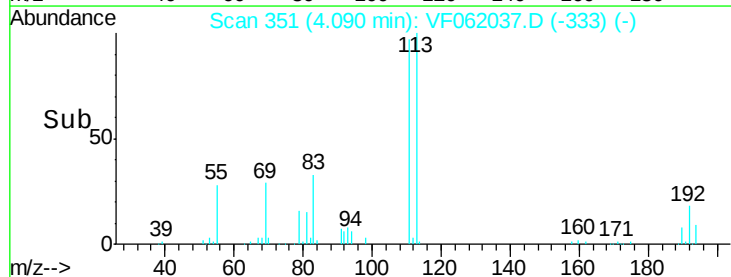
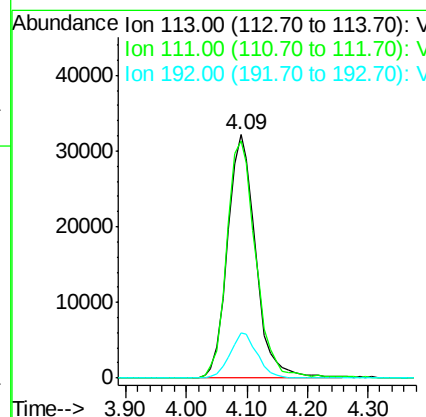
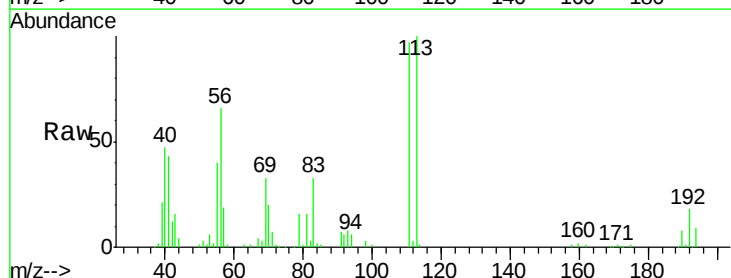
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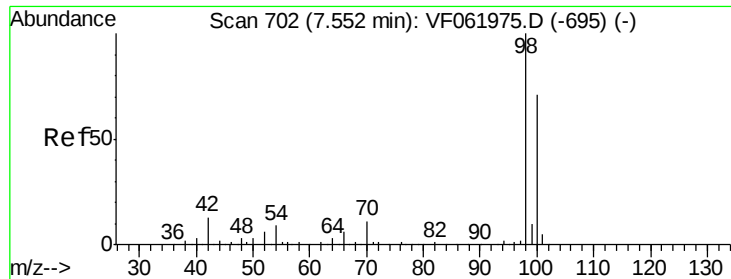
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#35  
 Dibromofluoromethane  
 Concen: 69.962 ug/l  
 RT: 4.09 min Scan# 351  
 Delta R.T. -0.02 min  
 Lab File: VF062037.D  
 Acq: 20 Mar 2019 13:46

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 113   | Resp: | 103648 |
| Ion Ratio | Lower | Upper |        |
| 113       | 100   |       |        |
| 111       | 97.4  | 80.8  | 121.2  |
| 192       | 18.4  | 13.0  | 19.6   |





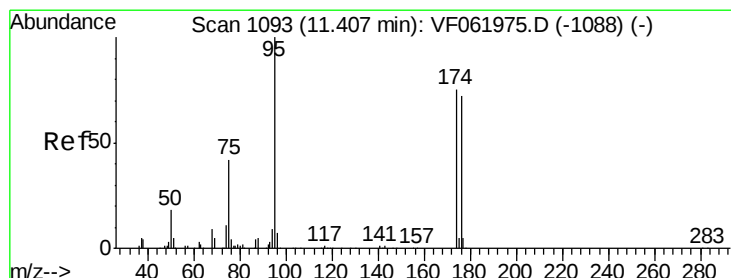
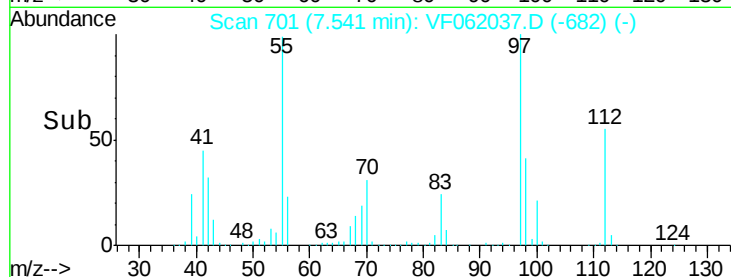
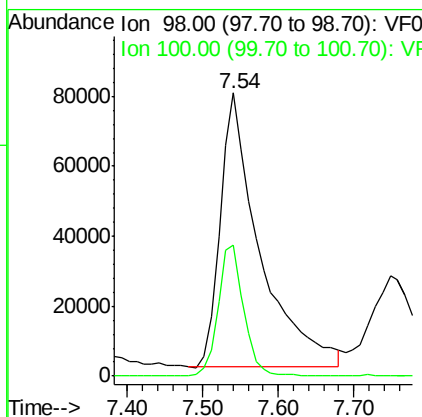
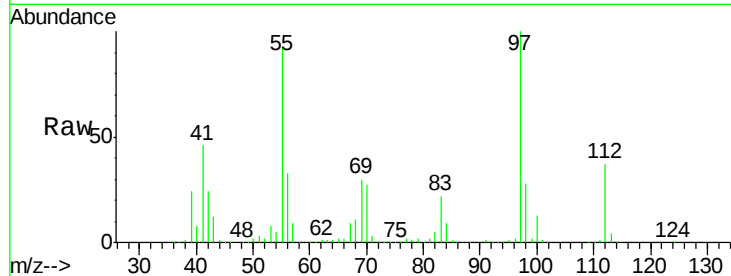
#50  
Toluene-d8  
Concen: 64.910 ug/l  
RT: 7.54 min Scan# 701  
Delta R.T. -0.01 min  
Lab File: VF062037.D  
Acq: 20 Mar 2019 13:46

Instrument :  
MSVOA\_F  
ClientSampleId :  
SB-8(9-10)-031519RE

Tot Ion: 98 Resp: 281114  
Ion Ratio Lower Upper  
98 100  
100 46.3 56.8 85.2#

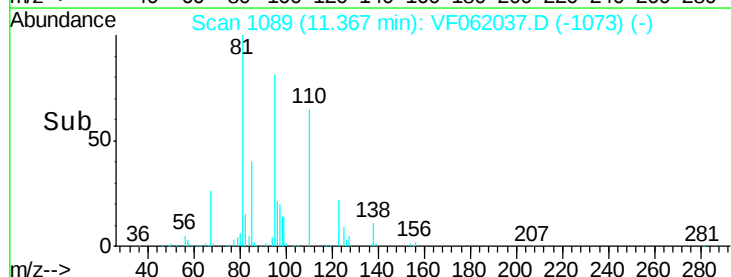
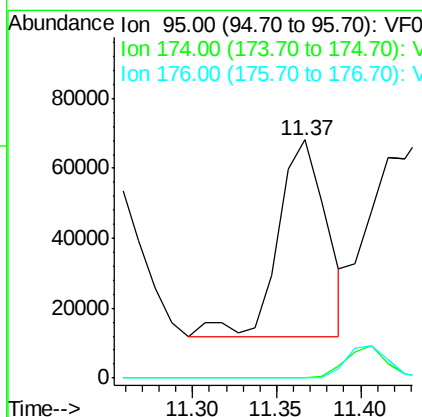
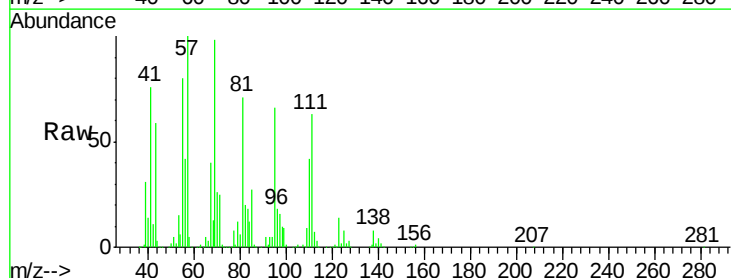
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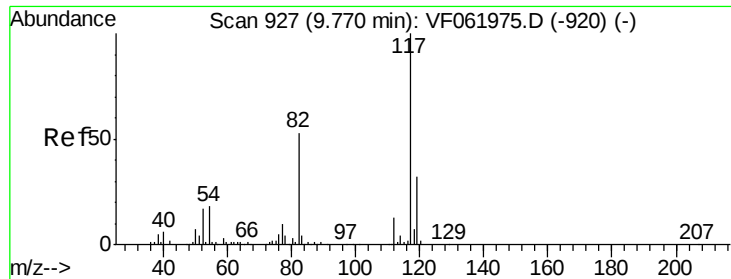
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#62  
4-Bromofluorobenzene  
Concen: 65.672 ug/l  
RT: 11.37 min Scan# 1089  
Delta R.T. -0.04 min  
Lab File: VF062037.D  
Acq: 20 Mar 2019 13:46

Tgt Ion: 95 Resp: 112988  
Ion Ratio Lower Upper  
95 100  
174 0.0 0.0 149.4  
176 0.0 0.0 143.4





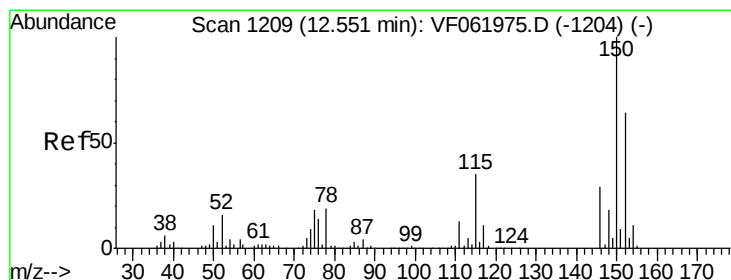
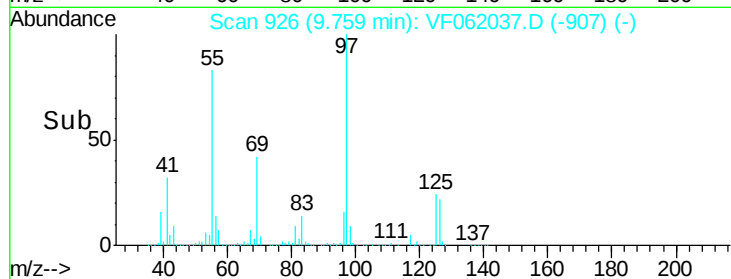
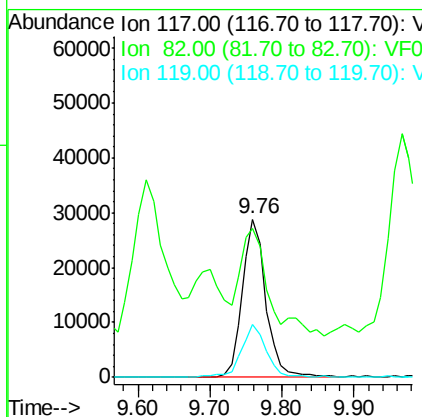
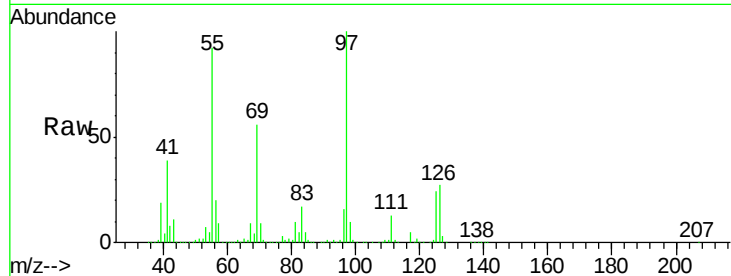
#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 9.76 min Scan# 926  
Delta R.T. -0.01 min  
Lab File: VF062037.D  
Acq: 20 Mar 2019 13:46

Instrument :  
MSVOA\_F  
ClientSampleId :  
SB-8(9-10)-031519RE

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 117     | 100   |       |       |
| 82      | 94.1  | 42.5  | 63.7# |
| 119     | 33.5  | 25.4  | 38.0  |

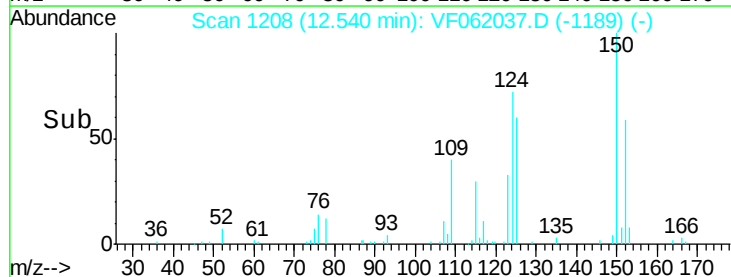
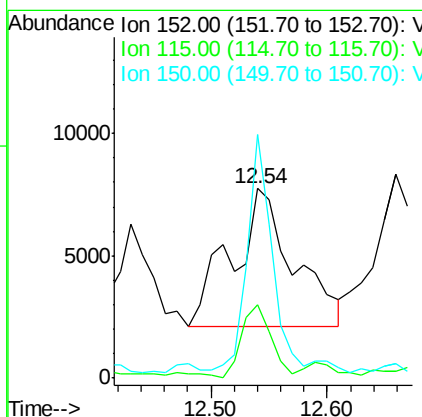
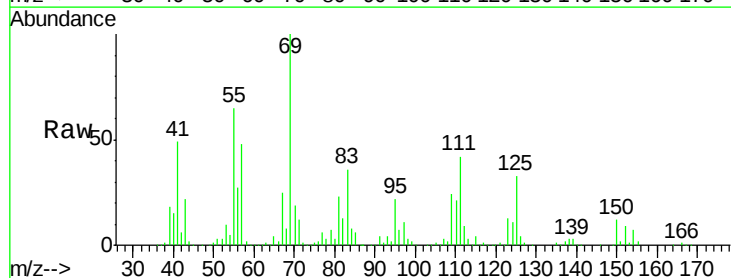
Manual Integrations  
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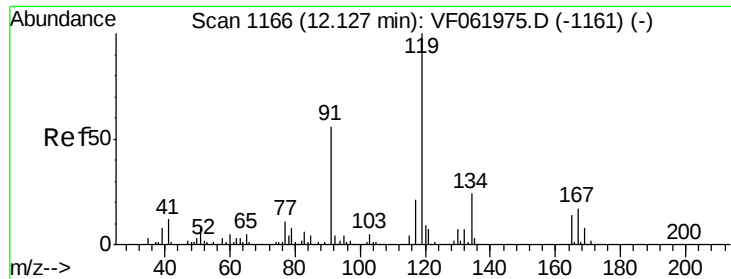
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#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 12.54 min Scan# 1208  
Delta R.T. -0.01 min  
Lab File: VF062037.D  
Acq: 20 Mar 2019 13:46

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 115     | 38.6  | 27.3  | 81.9  |
| 150     | 128.4 | 0.0   | 316.2 |





#83  
 tert-Butylbenzene  
 Concen: 21.445 ug/l m  
 RT: 12.13 min Scan# 1166  
 Delta R.T. -0.00 min  
 Lab File: VF062037.D  
 Acq: 20 Mar 2019 13:46

Instrument :  
 MSVOA\_F  
 ClientSampleId :  
 SB-8(9-10)-031519RE

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 119   | Resp: | 25883 |
| Ion Ratio | Lower | Upper |       |
| 119       | 100   |       |       |
| 91        | 85.0  | 27.9  | 83.6# |
| 134       | 29.6  | 12.3  | 36.8  |

Manual Integrations  
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