

Data Path : Z:\voasrv\HPCHEM1\MSVOA X\Data\VX052219\  
 Data File : VX009808.D  
 Acq On : 22 May 2019 16:44  
 Operator : JC/SP  
 Sample : K2977-09  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 17 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 EP1-PZ-W4-5

Manual Integrations  
 APPROVED

MMDadoda  
 5/23/2019 10:44:50 AM

Quant Time: May 29 01:35:09 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X042919W.M  
 Quant Title : SW846 8260  
 QLast Update : Thu May 09 07:31:15 2019  
 Response via : Initial Calibration

| Internal Standards          | R.T.  | QIon | Response | Conc    | Units   | Dev(Min) |
|-----------------------------|-------|------|----------|---------|---------|----------|
| 1) Pentafluorobenzene       | 5.66  | 168  | 172464   | 50.00   | ug/l    | 0.00     |
| 34) 1,4-Difluorobenzene     | 6.86  | 114  | 275785   | 50.00   | ug/l    | 0.00     |
| 63) Chlorobenzene-d5        | 10.11 | 117  | 251057   | 50.00   | ug/l    | 0.00     |
| 72) 1,4-Dichlorobenzene-d4  | 12.08 | 152  | 118791   | 50.00   | ug/l    | 0.00     |
| System Monitoring Compounds |       |      |          |         |         |          |
| 33) 1,2-Dichloroethane-d4   | 6.06  | 65   | 118610   | 50.38   | ug/l    | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =       | 100.76% |          |
| 35) Dibromofluoromethane    | 5.50  | 113  | 85296    | 49.20   | ug/l    | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =       | 98.40%  |          |
| 50) Toluene-d8              | 8.71  | 98   | 354611   | 50.66   | ug/l    | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =       | 101.32% |          |
| 62) 4-Bromofluorobenzene    | 11.13 | 95   | 126014   | 49.55   | ug/l    | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =       | 99.10%  |          |
| Target Compounds            |       |      |          |         |         |          |
|                             |       |      |          |         | Qvalue  |          |
| 16) Acetone                 | 2.44  | 43   | 97169    | 76.863  | ug/l    | 97       |
| 17) Carbon Disulfide        | 2.57  | 76   | 71787    | 15.801  | ug/l    | 99       |
| 25) 2-Butanone              | 4.68  | 43   | 27765    | 14.133  | ug/l    | 95       |
| 64) Tetrachloroethene       | 9.34  | 164  | 705      | 0.409   | ug/l #  | 77       |
| 67) Ethyl Benzene           | 10.25 | 91   | 39716    | 4.297   | ug/l    | 99       |
| 69) o-Xylene                | 10.70 | 106  | 2159     | 0.648   | ug/l    | 99       |
| 73) Isopropylbenzene        | 11.02 | 105  | 278474   | 32.237  | ug/l    | 99       |
| 78) n-propylbenzene         | 11.36 | 91   | 573059   | 58.088  | ug/l    | 100      |
| 80) 1,3,5-Trimethylbenzene  | 11.51 | 105  | 321595   | 44.214  | ug/l    | 99       |
| 83) tert-Butylbenzene       | 11.77 | 119  | 85927    | 12.144  | ug/l    | 89       |
| 84) 1,2,4-Trimethylbenzene  | 11.80 | 105  | 2774989  | 380.096 | ug/l    | 98       |
| 85) sec-Butylbenzene        | 11.94 | 105  | 237426   | 28.303  | ug/l    | 85       |
| 86) p-Isopropyltoluene      | 12.06 | 119  | 48345    | 6.411   | ug/l    | 98       |
| 89) n-Butylbenzene          | 12.38 | 91   | 47547m   | 6.976   | ug/l    |          |
| 95) Naphthalene             | 13.83 | 128  | 5180     | 0.598   | ug/l #  | 87       |

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

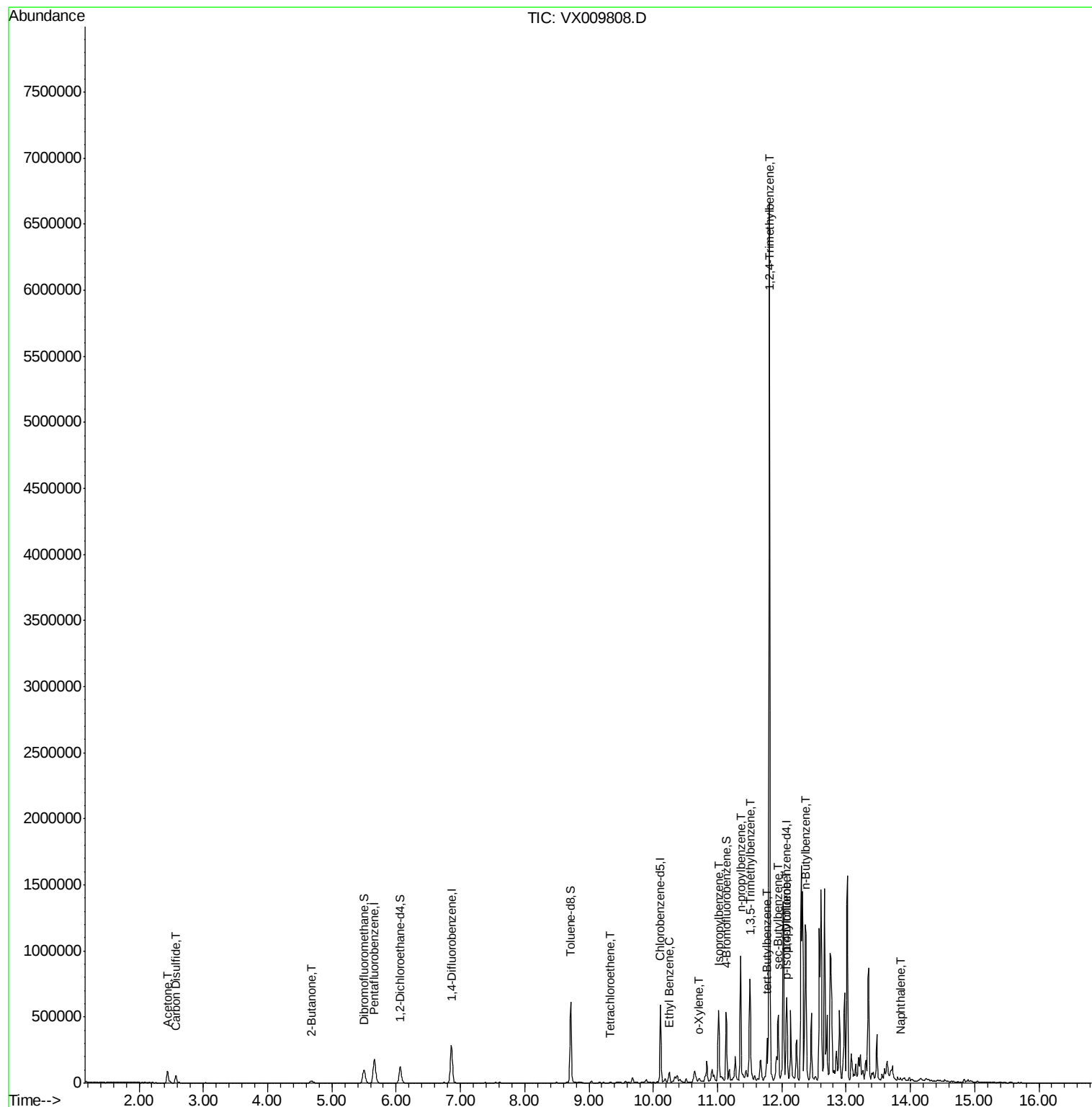
Data Path : Z:\voasrv\HPCHEM1\MSVOA X\Data\VX052219\  
Data File : VX009808.D  
Acq On : 22 May 2019 16:44  
Operator : JC/SP  
Sample : K2977-09  
Misc : 5.0mL/MSVOA X/WATER  
ALS Vial : 17 Sample Multiplier: 1

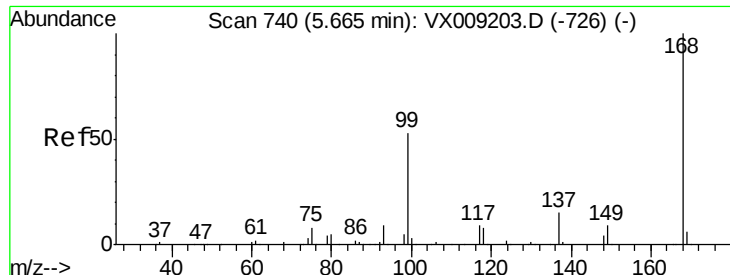
Instrument :  
MSVOA\_X  
ClientSampleId :  
EP1-PZ-W4-5

Manual Integrations  
APPROVED

MMDadoda  
5/23/2019 10:44:50 AM

Quant Time: May 29 01:35:09 2019  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X042919W.M  
Quant Title : SW846 8260  
QLast Update : Thu May 09 07:31:15 2019  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.01 min

Lab File: VX009808.D

Acq: 22 May 2019 16:44

Instrument :

MSVOA\_X

ClientSampleId :

EP1-PZ-W4-5

Tot Ion:168 Resp: 172464

Ion Ratio Lower Upper

168 100

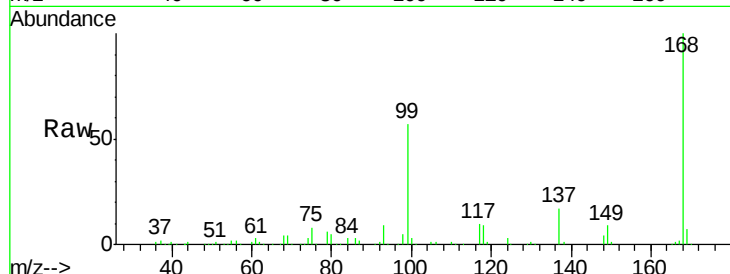
99 56.7 42.3 63.5

Manual Integrations

APPROVED

MMDadoda

5/23/2019 10:44:50 AM



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.66

60000

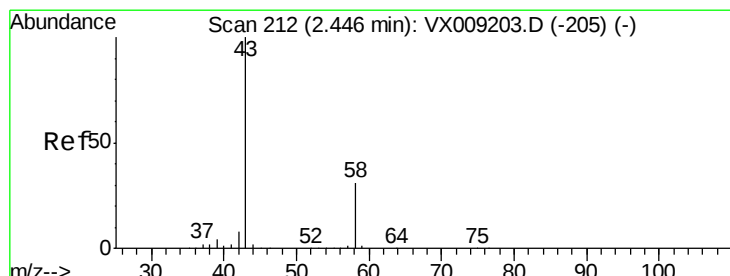
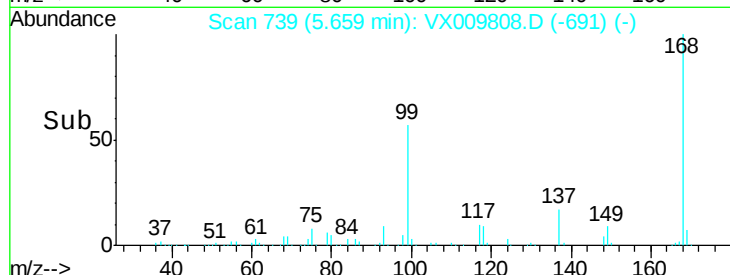
40000

20000

0

Time-->

5.50 5.60 5.70 5.80



#16

Acetone

Concen: 76.863 ug/l

RT: 2.44 min Scan# 211

Delta R.T. -0.01 min

Lab File: VX009808.D

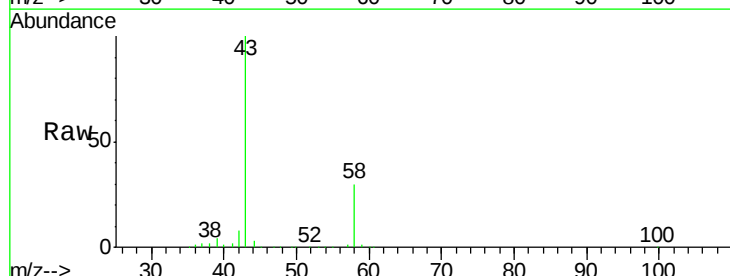
Acq: 22 May 2019 16:44

Tgt Ion: 43 Resp: 97169

Ion Ratio Lower Upper

43 100

58 29.6 24.9 37.3



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

2.44

60000

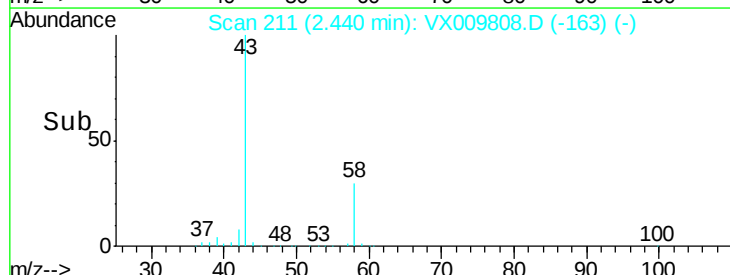
40000

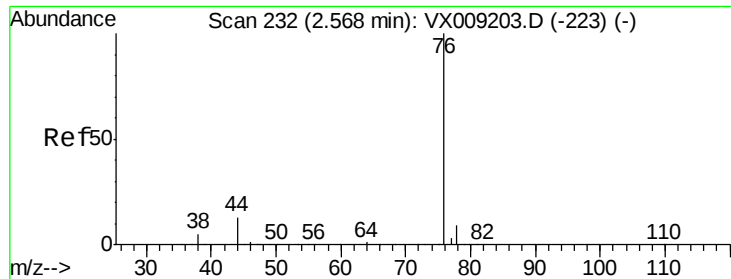
20000

0

Time-->

2.40 2.45 2.50





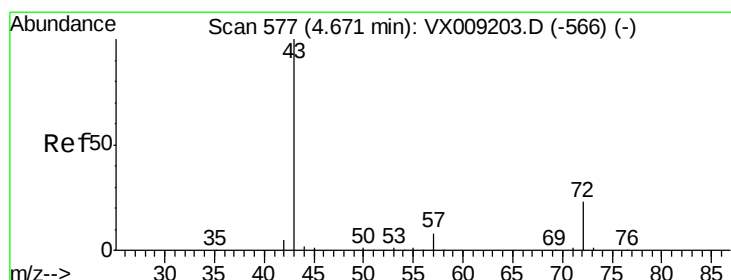
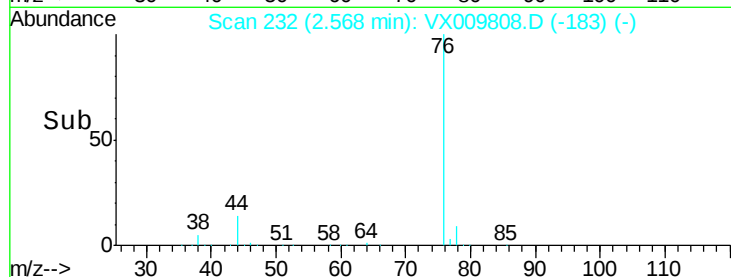
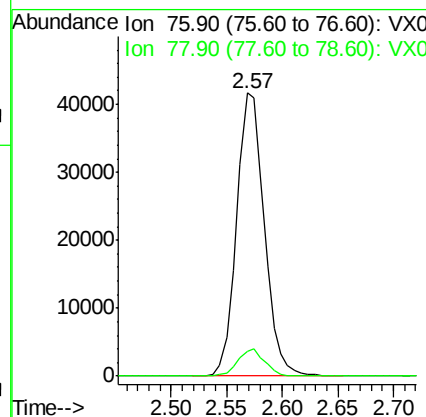
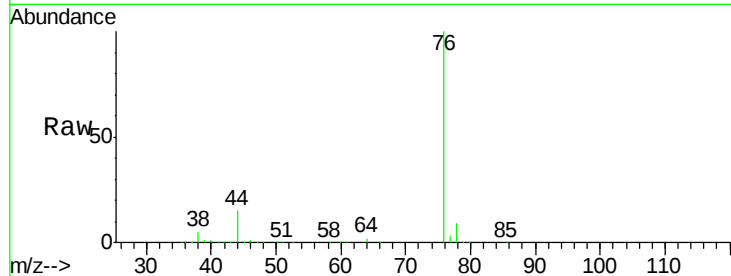
#17  
Carbon Disulfide  
Concen: 15.801 ug/l  
RT: 2.57 min Scan# 232  
Delta R.T. 0.00 min  
Lab File: VX009808.D  
Acq: 22 May 2019 16:44

Instrument :  
MSVOA\_X  
ClientSampleId :  
EP1-PZ-W4-5

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 76      | 100   |       |       |
| 78      | 8.7   | 7.4   | 11.0  |

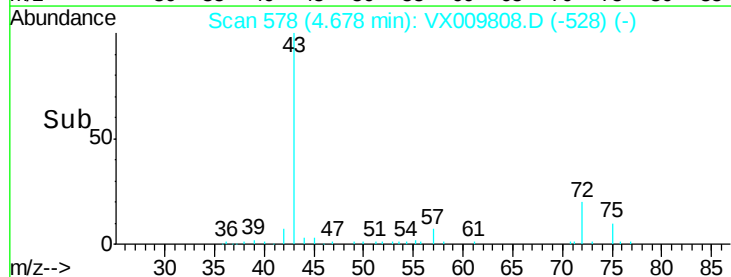
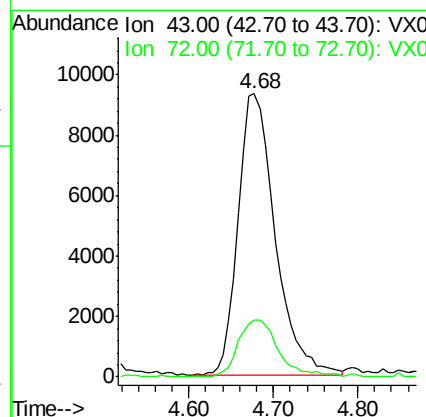
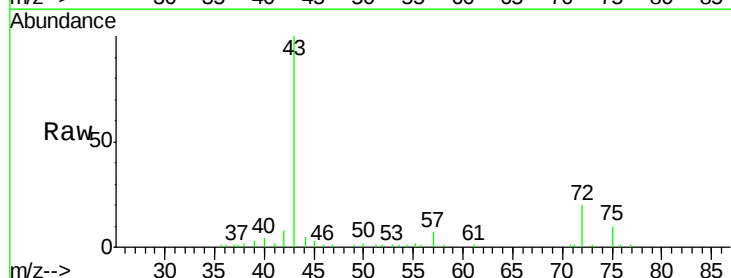
Manual Integrations  
APPROVED

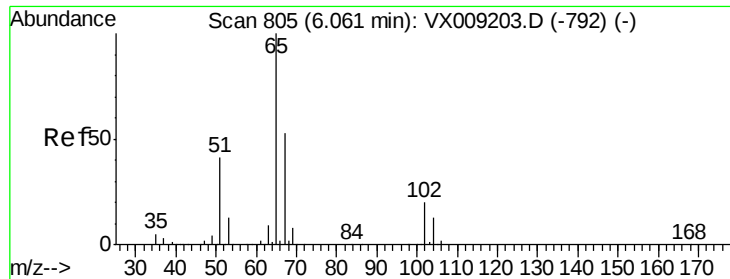
MMDadoda  
5/23/2019 10:44:50 AM



#25  
2-Butanone  
Concen: 14.133 ug/l  
RT: 4.68 min Scan# 578  
Delta R.T. 0.01 min  
Lab File: VX009808.D  
Acq: 22 May 2019 16:44

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 43      | 100   |       |       |
| 72      | 20.1  | 18.2  | 27.2  |





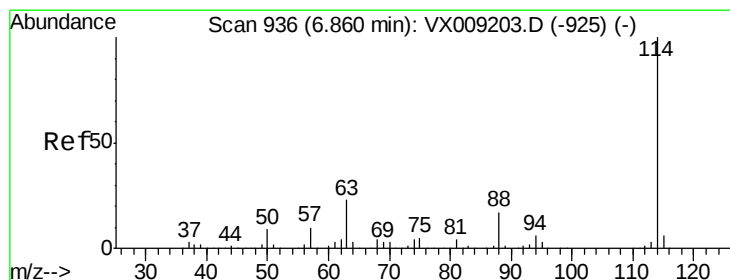
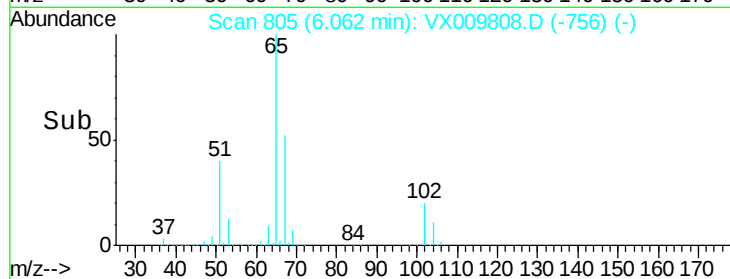
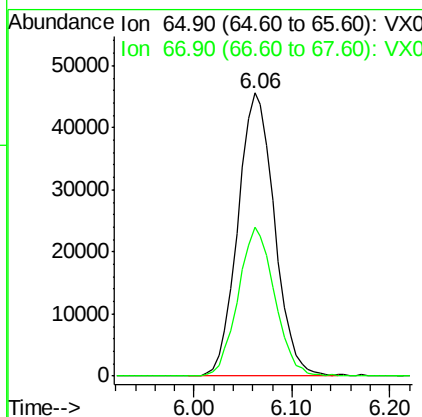
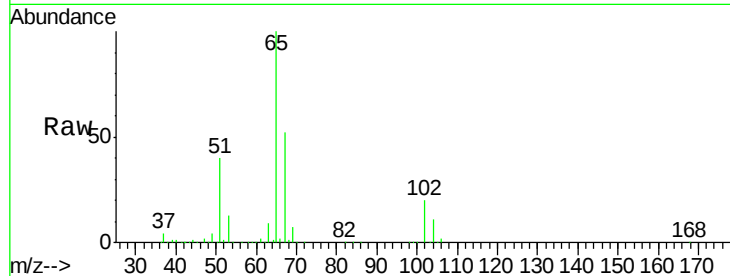
#33  
 1,2-Dichloroethane-d4  
 Concen: 50.379 ug/l  
 RT: 6.06 min Scan# 805  
 Delta R.T. 0.00 min  
 Lab File: VX009808.D  
 Acq: 22 May 2019 16:44

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 EP1-PZ-W4-5

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 65      | 100   |       |       |
| 67      | 52.5  | 0.0   | 106.6 |

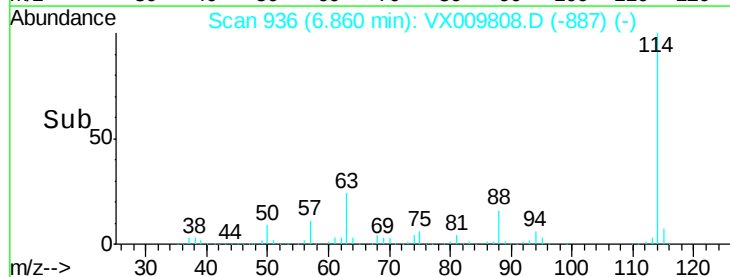
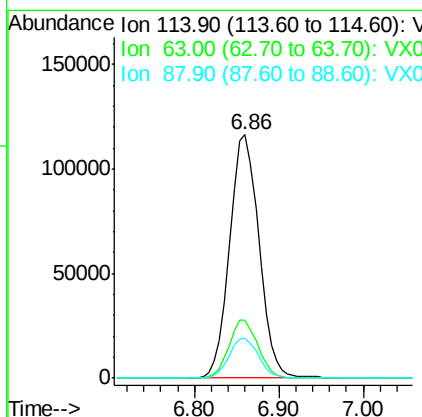
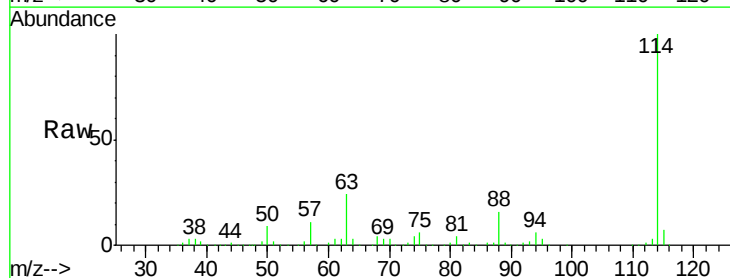
Manual Integrations  
 APPROVED

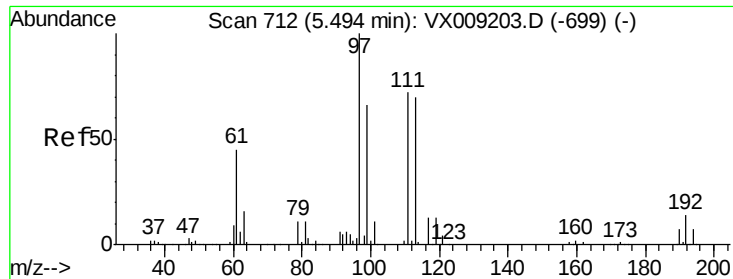
MMDadoda  
 5/23/2019 10:44:50 AM



#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 6.86 min Scan# 936  
 Delta R.T. 0.00 min  
 Lab File: VX009808.D  
 Acq: 22 May 2019 16:44

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 114     | 100   |       |       |
| 63      | 23.9  | 0.0   | 45.6  |
| 88      | 16.5  | 0.0   | 33.2  |





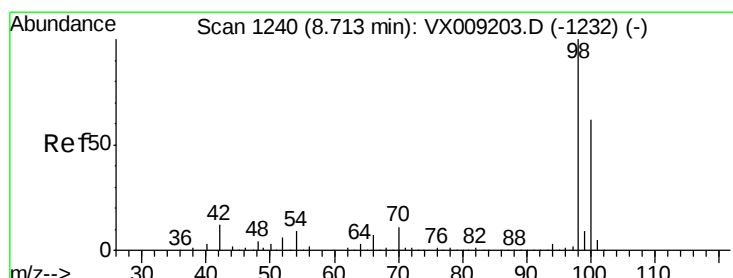
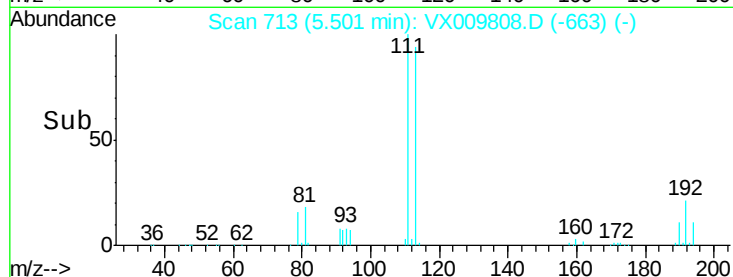
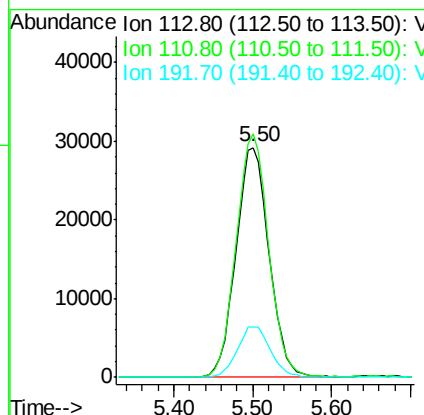
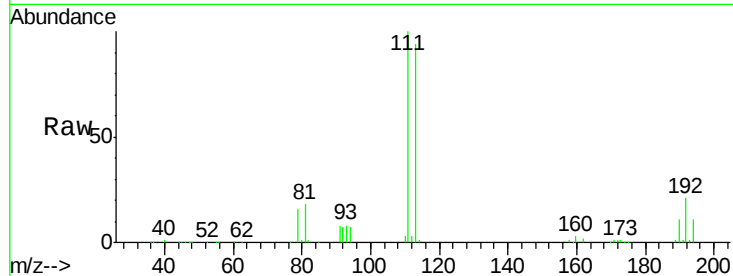
#35  
Dibromofluoromethane  
Concen: 49.199 ug/l  
RT: 5.50 min Scan# 713  
Delta R.T. 0.01 min  
Lab File: VX009808.D  
Acq: 22 May 2019 16:44

Instrument :  
MSVOA\_X  
ClientSampleId :  
EP1-PZ-W4-5

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 113     | 100   |       |       |
| 111     | 103.9 | 82.8  | 124.2 |
| 192     | 22.1  | 17.0  | 25.6  |

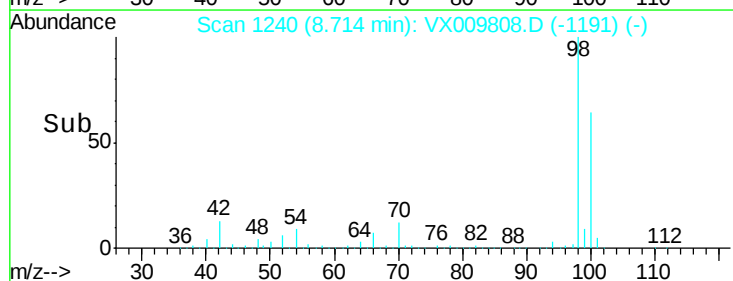
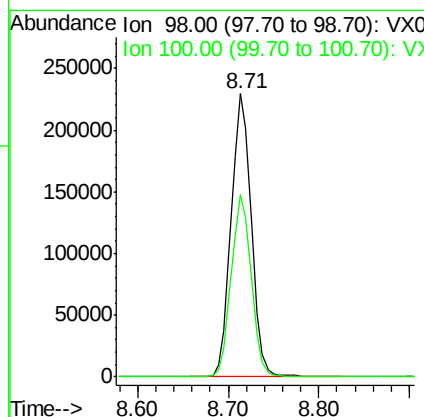
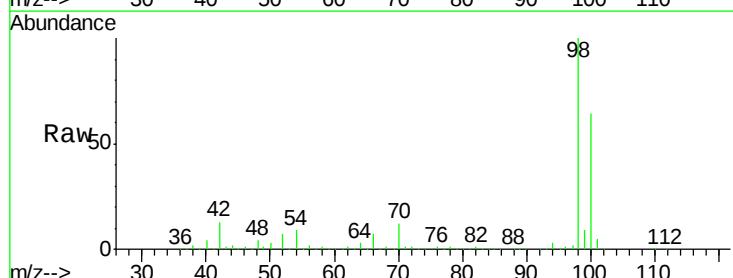
Manual Integrations  
APPROVED

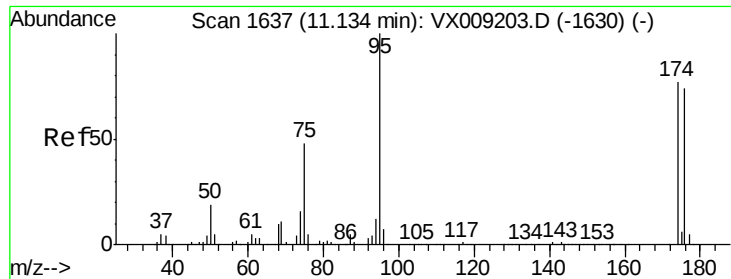
MMDadoda  
5/23/2019 10:44:50 AM



#50  
Toluene-d8  
Concen: 50.663 ug/l  
RT: 8.71 min Scan# 1240  
Delta R.T. 0.00 min  
Lab File: VX009808.D  
Acq: 22 May 2019 16:44

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 98      | 100   |       |       |
| 100     | 64.3  | 51.2  | 76.8  |





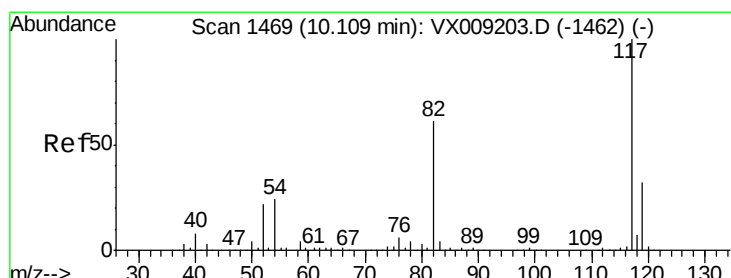
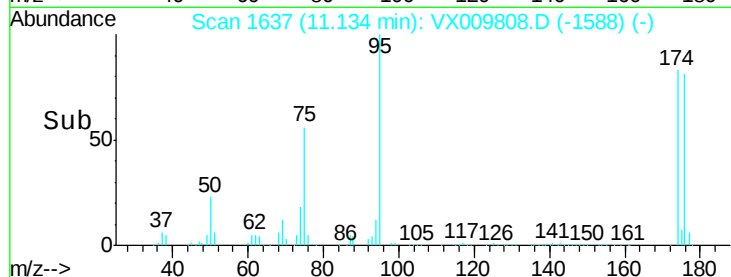
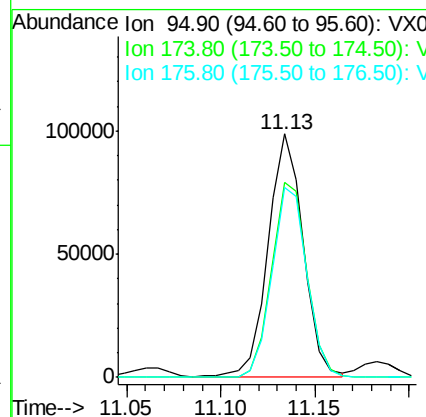
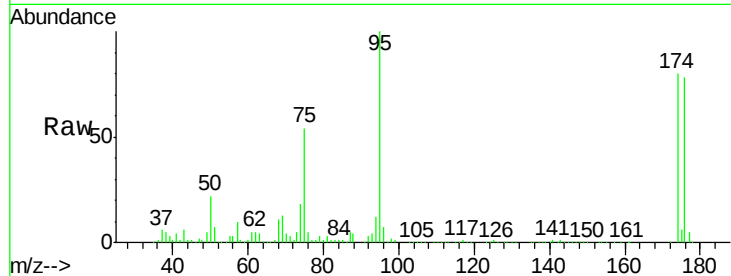
#62  
4-Bromofluorobenzene  
Concen: 49.547 ug/l  
RT: 11.13 min Scan# 1637  
Delta R.T. 0.00 min  
Lab File: VX009808.D  
Acq: 22 May 2019 16:44

Instrument :  
MSVOA\_X  
ClientSampleId :  
EP1-PZ-W4-5

| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 95      | 100   | 126014 |       |       |
| 174     | 81.3  | 0.0    | 161.6 |       |
| 176     | 79.2  | 0.0    | 159.2 |       |

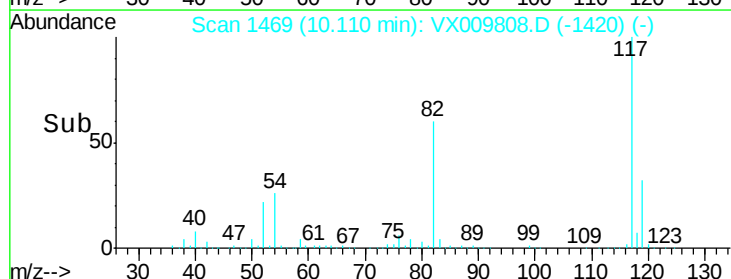
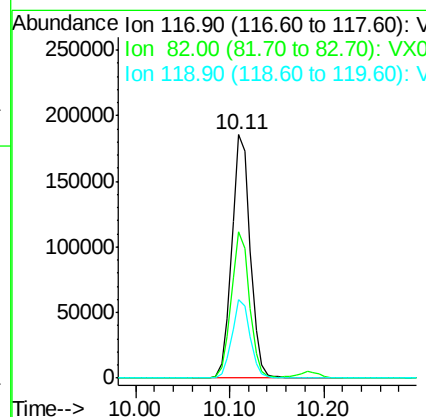
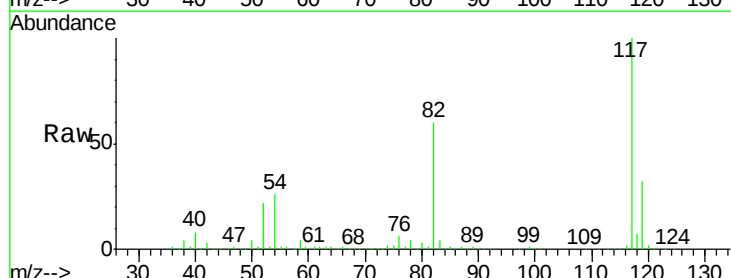
Manual Integrations  
APPROVED

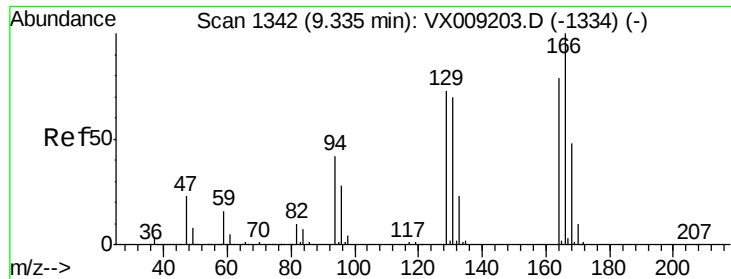
MMDadoda  
5/23/2019 10:44:50 AM



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 10.11 min Scan# 1469  
Delta R.T. 0.00 min  
Lab File: VX009808.D  
Acq: 22 May 2019 16:44

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 117     | 100   | 251057 |       |       |
| 82      | 59.9  | 48.8   | 73.2  |       |
| 119     | 32.3  | 25.8   | 38.6  |       |





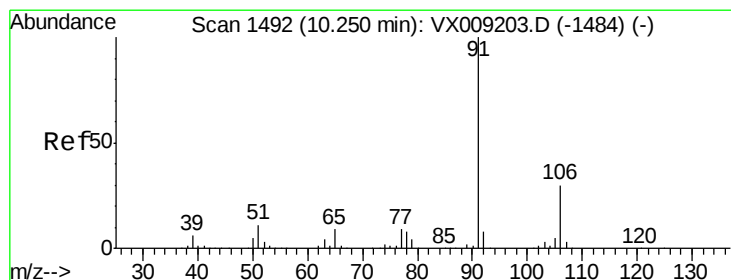
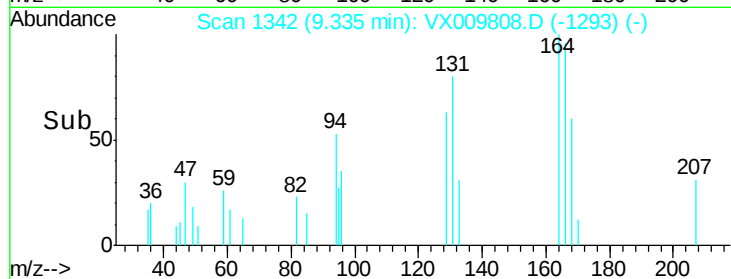
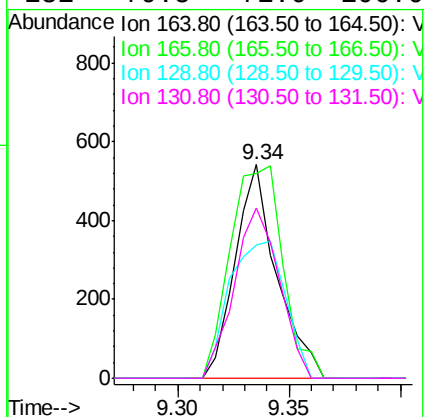
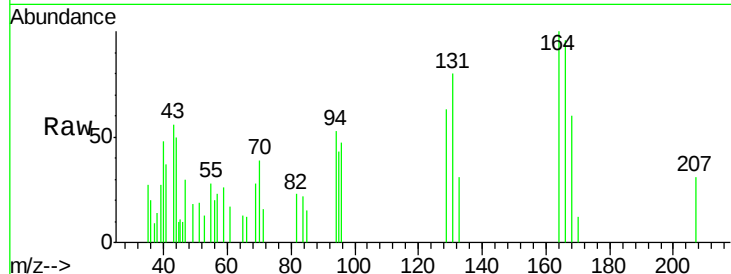
#64  
Tetrachloroethene  
Concen: 0.409 ug/l  
RT: 9.34 min Scan# 1342  
Delta R.T. 0.00 min  
Lab File: VX009808.D  
Acq: 22 May 2019 16:44

Instrument :  
MSVOA\_X  
ClientSampleId :  
EP1-PZ-W4-5

| Tot Ion | Ratio | Lower | Upper  |
|---------|-------|-------|--------|
| 164     | 100   |       |        |
| 166     | 95.9  | 101.2 | 151.8# |
| 129     | 62.5  | 74.3  | 111.5# |
| 131     | 79.5  | 71.0  | 106.6  |

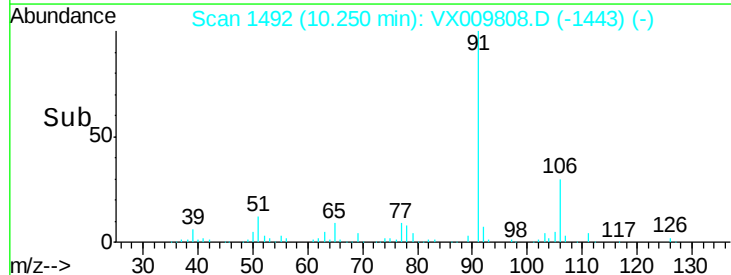
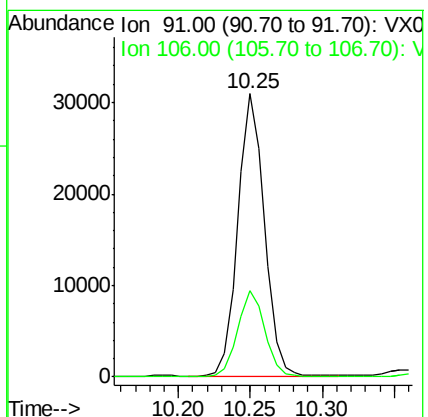
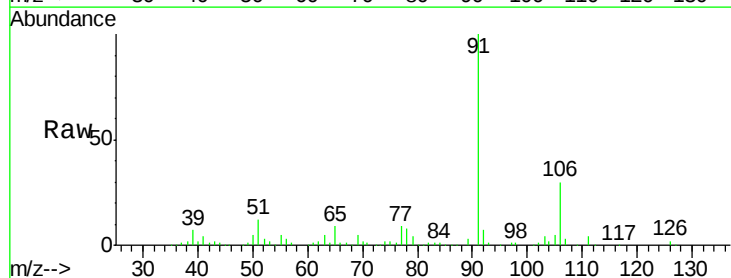
Manual Integrations  
APPROVED

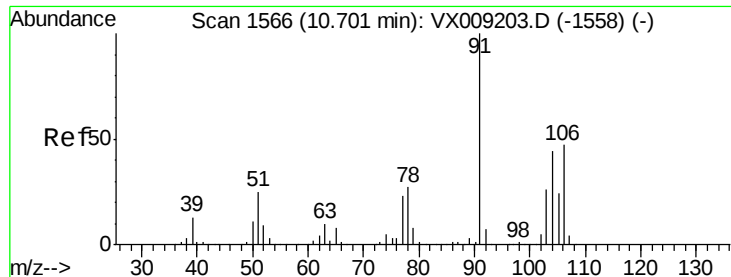
MMDadoda  
5/23/2019 10:44:50 AM



#67  
Ethyl Benzene  
Concen: 4.297 ug/l  
RT: 10.25 min Scan# 1492  
Delta R.T. 0.00 min  
Lab File: VX009808.D  
Acq: 22 May 2019 16:44

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 91      | 100   |       |       |
| 106     | 30.5  | 24.0  | 36.0  |





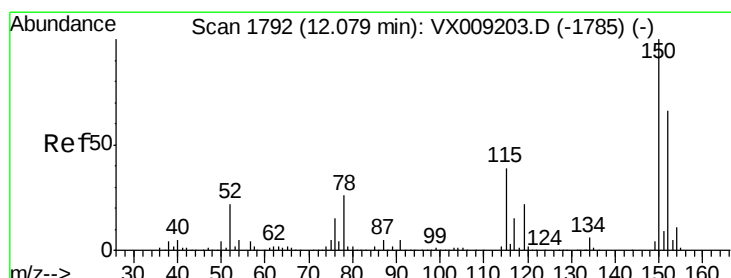
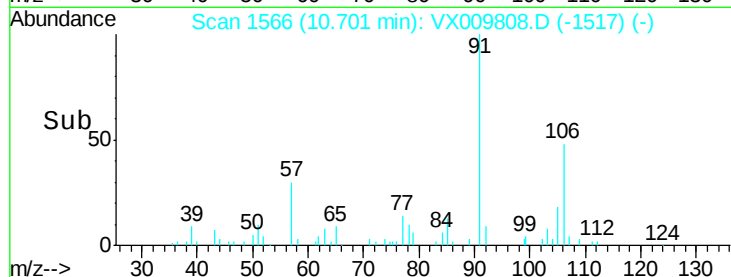
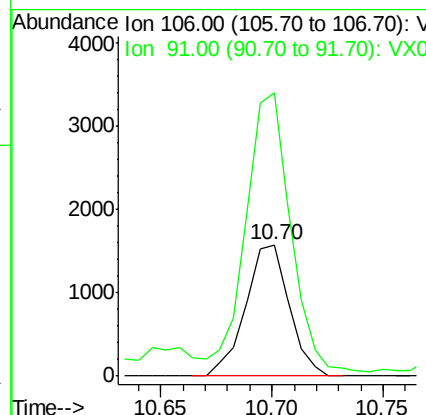
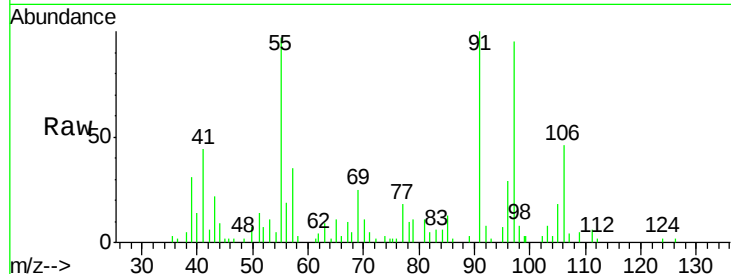
#69  
o-Xylene  
Concen: 0.648 ug/l  
RT: 10.70 min Scan# 1566  
Delta R.T. 0.00 min  
Lab File: VX009808.D  
Acq: 22 May 2019 16:44

Instrument :  
MSVOA\_X  
ClientSampleId :  
EP1-PZ-W4-5

Tot Ion:106 Resp: 2159  
Ion Ratio Lower Upper  
106 100  
91 216.9 109.5 328.4

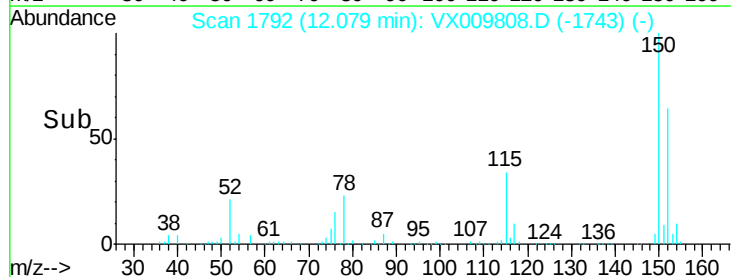
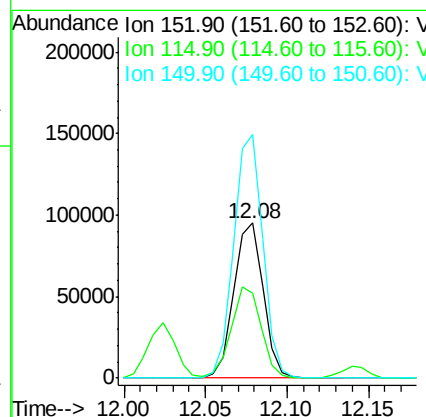
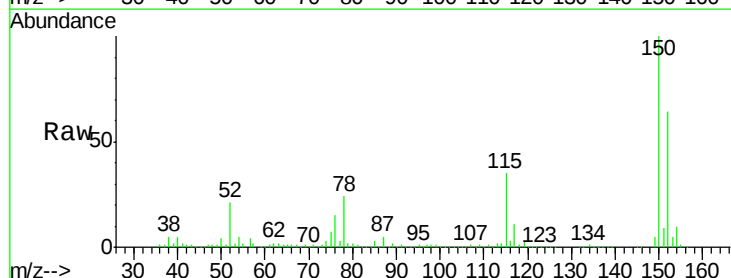
Manual Integrations  
APPROVED

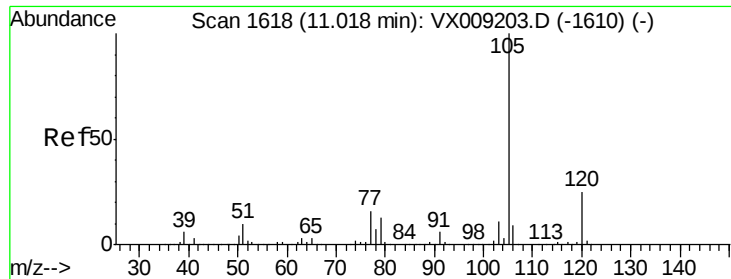
MMDadoda  
5/23/2019 10:44:50 AM



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 12.08 min Scan# 1792  
Delta R.T. 0.00 min  
Lab File: VX009808.D  
Acq: 22 May 2019 16:44

Tgt Ion:152 Resp: 118791  
Ion Ratio Lower Upper  
152 100  
115 59.6 41.2 123.6  
150 156.1 0.0 346.4





#73

Isopropylbenzene

Concen: 32.237 ug/l

RT: 11.02 min Scan# 1618

Delta R.T. 0.00 min

Lab File: VX009808.D

Acq: 22 May 2019 16:44

Instrument :

MSVOA\_X

ClientSampleId :

EP1-PZ-W4-5

Tot Ion:105 Resp: 278474

Ion Ratio Lower Upper

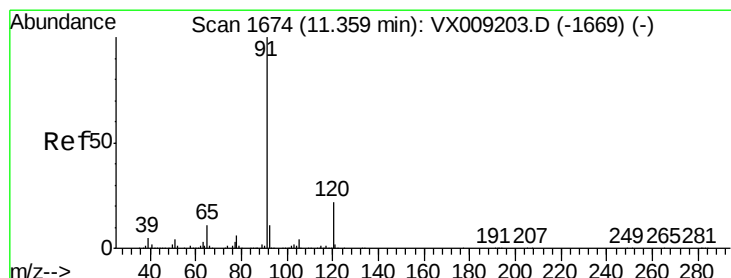
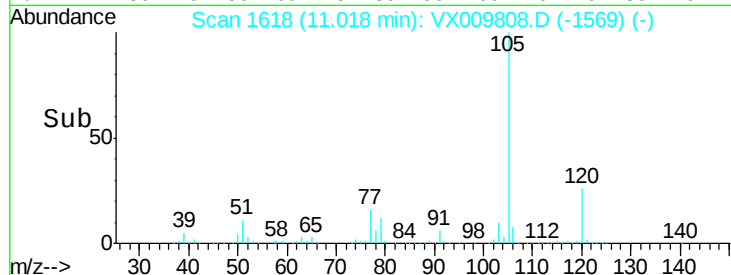
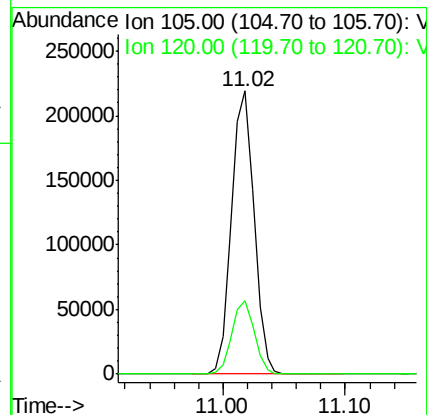
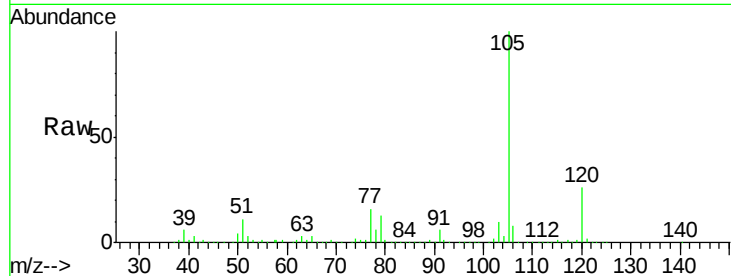
105 100

120 25.8 12.8 38.3

Manual Integrations  
APPROVED

MMDadoda

5/23/2019 10:44:50 AM



#78

n-propylbenzene

Concen: 58.088 ug/l

RT: 11.36 min Scan# 1674

Delta R.T. 0.00 min

Lab File: VX009808.D

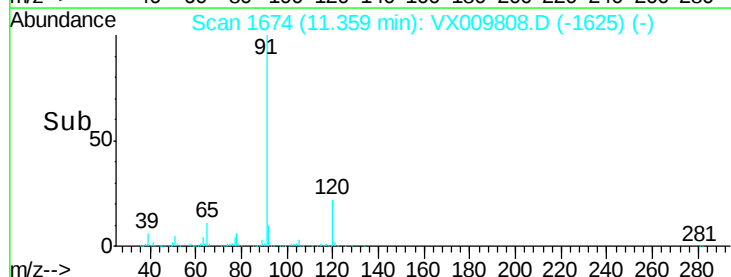
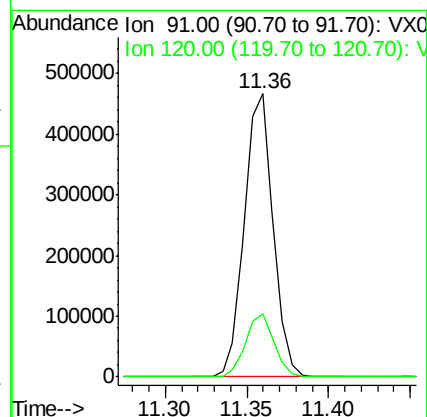
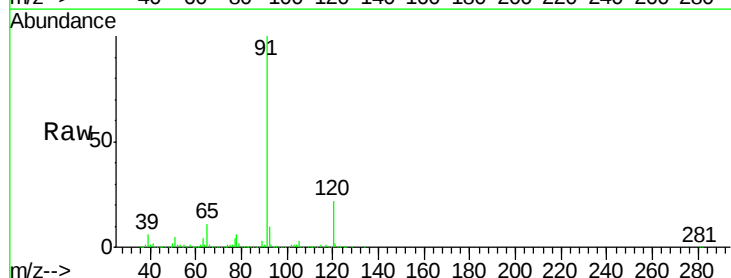
Acq: 22 May 2019 16:44

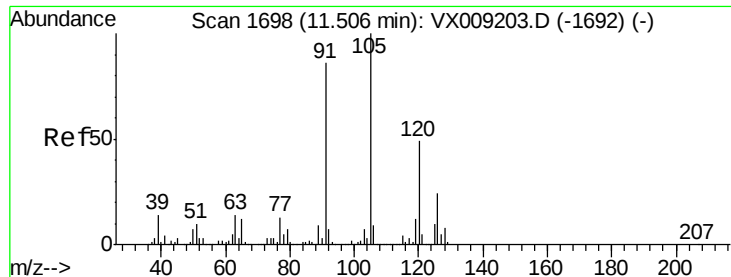
Tgt Ion: 91 Resp: 573059

Ion Ratio Lower Upper

91 100

120 21.9 11.0 33.0





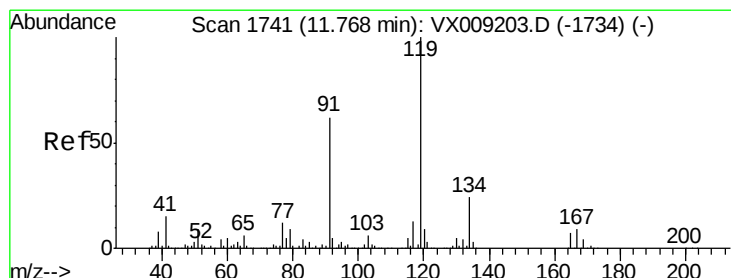
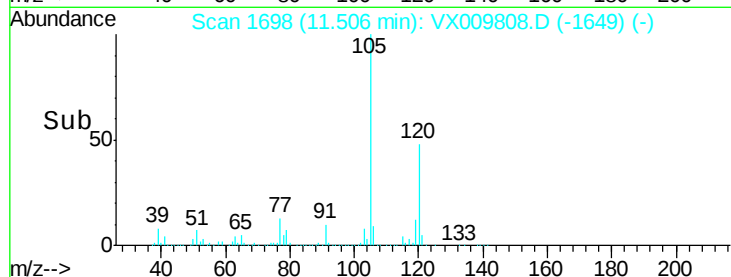
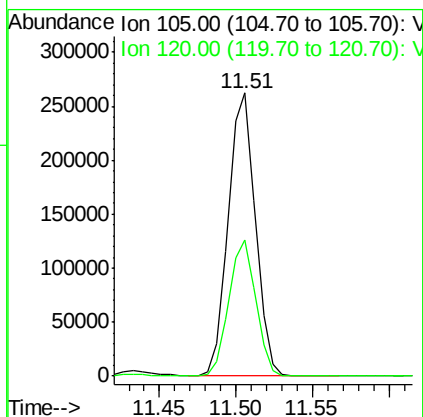
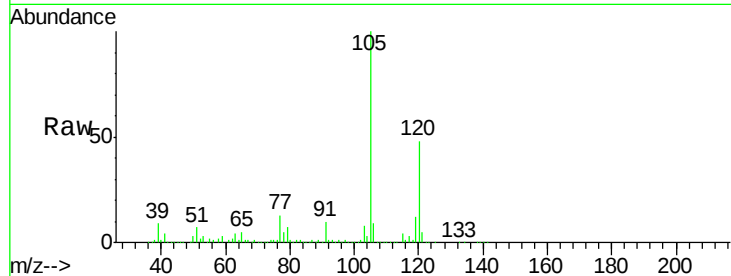
#80  
 1,3,5-Trimethylbenzene  
 Concen: 44.214 ug/l  
 RT: 11.51 min Scan# 1698  
 Delta R.T. 0.00 min  
 Lab File: VX009808.D  
 Acq: 22 May 2019 16:44

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 EP1-PZ-W4-5

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 105     | 100   |       |       |
| 120     | 47.8  | 24.3  | 72.9  |

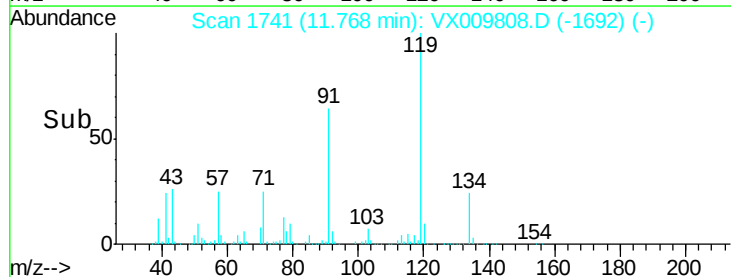
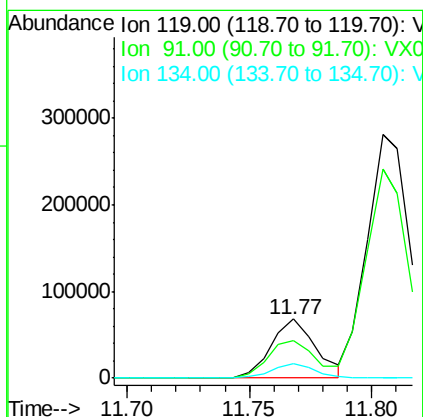
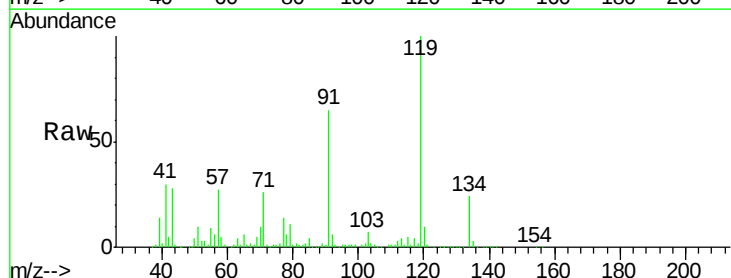
Manual Integrations  
 APPROVED

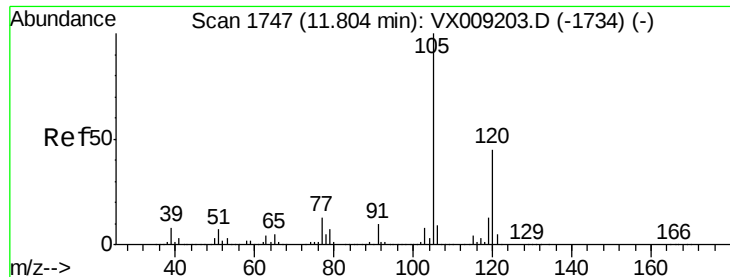
MMDadoda  
 5/23/2019 10:44:50 AM



#83  
 tert-Butylbenzene  
 Concen: 12.144 ug/l  
 RT: 11.77 min Scan# 1741  
 Delta R.T. 0.00 min  
 Lab File: VX009808.D  
 Acq: 22 May 2019 16:44

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 119     | 100   |       |       |
| 91      | 70.3  | 29.5  | 88.5  |
| 134     | 23.3  | 11.4  | 34.1  |





#84

1,2,4-Trimethylbenzene

Concen: 380.096 ug/l

RT: 11.80 min Scan# 1747

Delta R.T. 0.00 min

Lab File: VX009808.D

Acq: 22 May 2019 16:44

Instrument :

MSVOA\_X

ClientSampleId :

EP1-PZ-W4-5

Tot Ion:105 Resp: 2774989

Ion Ratio Lower Upper

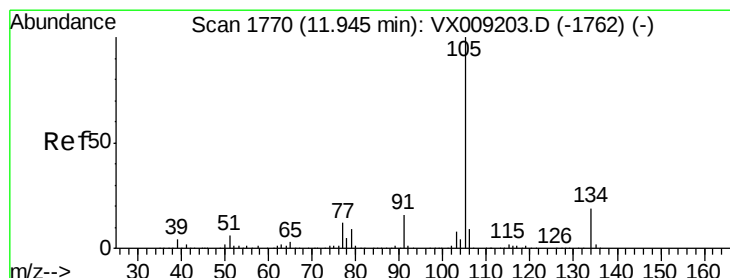
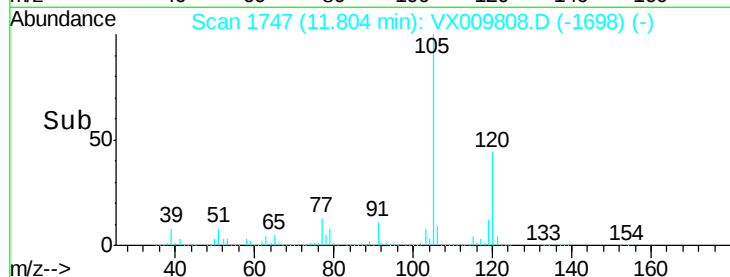
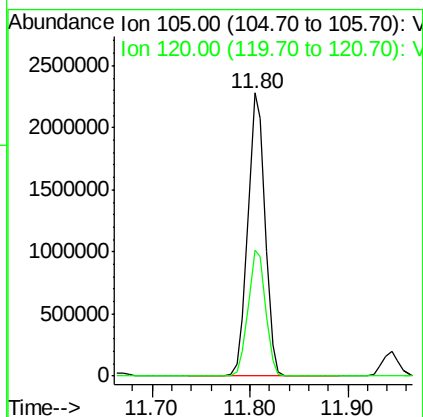
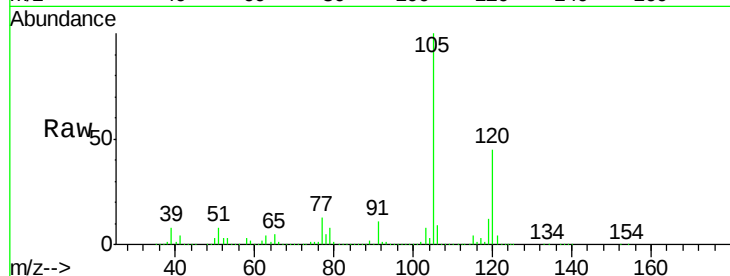
105 100

120 45.4 22.0 66.0

Manual Integrations  
APPROVED

MMDadoda

5/23/2019 10:44:50 AM



#85

sec-Butylbenzene

Concen: 28.303 ug/l

RT: 11.94 min Scan# 1770

Delta R.T. 0.00 min

Lab File: VX009808.D

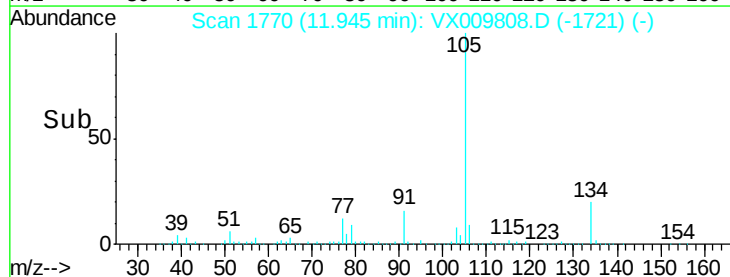
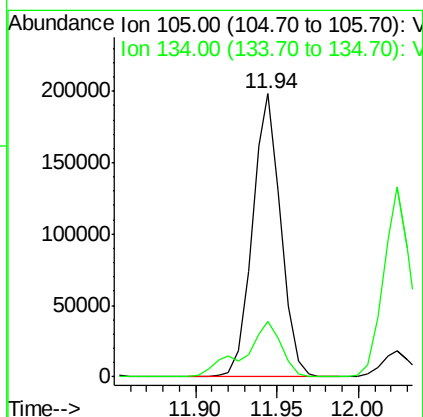
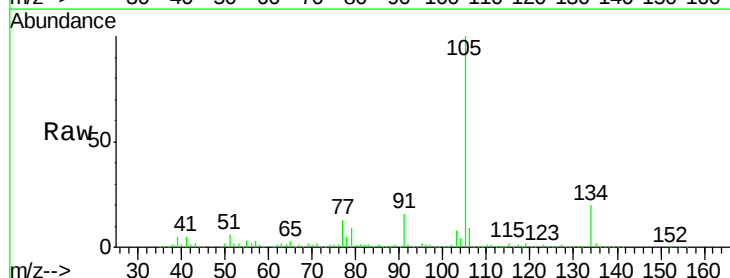
Acq: 22 May 2019 16:44

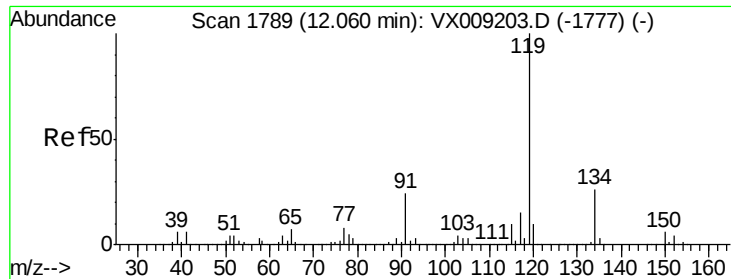
Tgt Ion:105 Resp: 237426

Ion Ratio Lower Upper

105 100

134 26.2 9.7 28.9





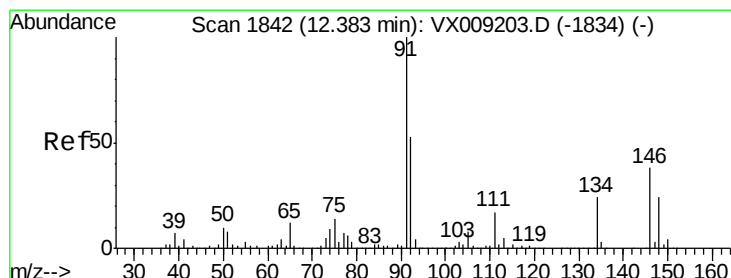
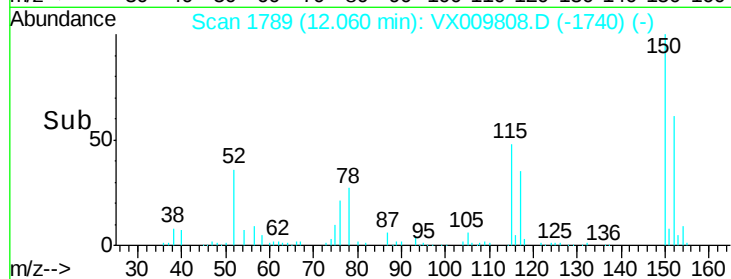
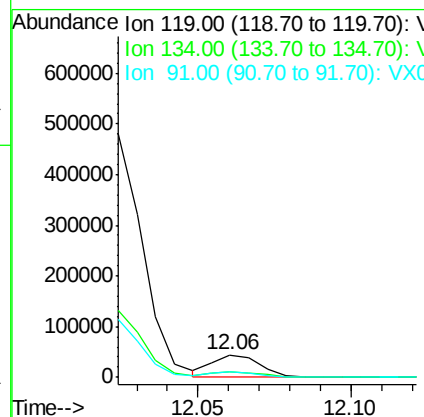
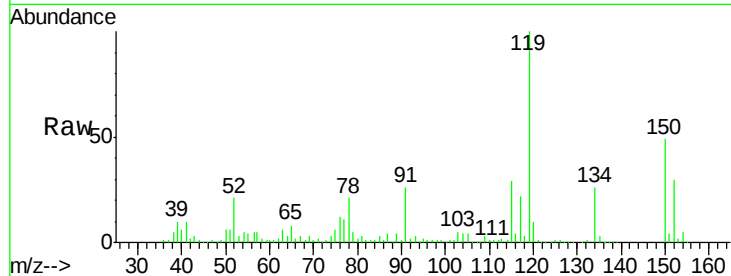
#86  
p-Isopropyltoluene  
Concen: 6.411 ug/l  
RT: 12.06 min Scan# 1789  
Delta R.T. 0.00 min  
Lab File: VX009808.D  
Acq: 22 May 2019 16:44

Instrument :  
MSVOA\_X  
ClientSampleId :  
EP1-PZ-W4-5

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 119     | 100   |       |       |
| 134     | 26.2  | 12.9  | 38.7  |
| 91      | 24.7  | 11.8  | 35.4  |

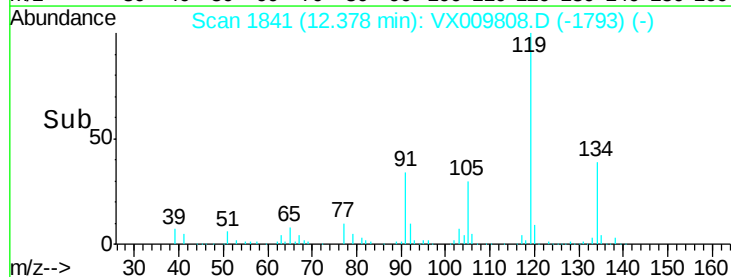
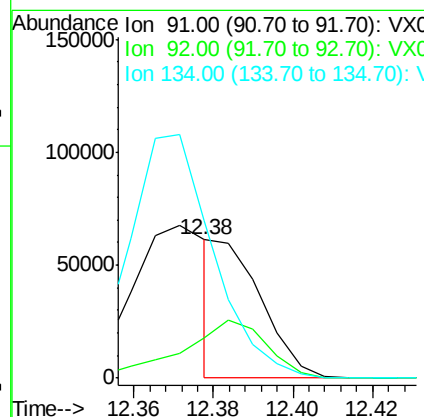
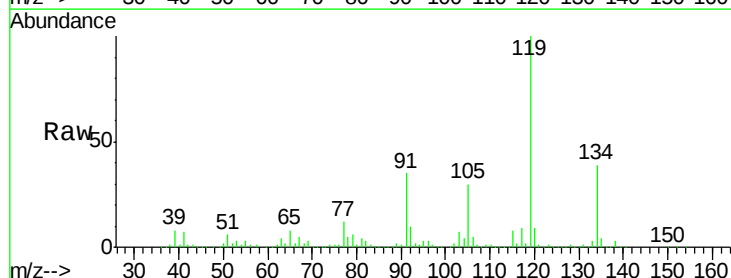
Manual Integrations  
APPROVED

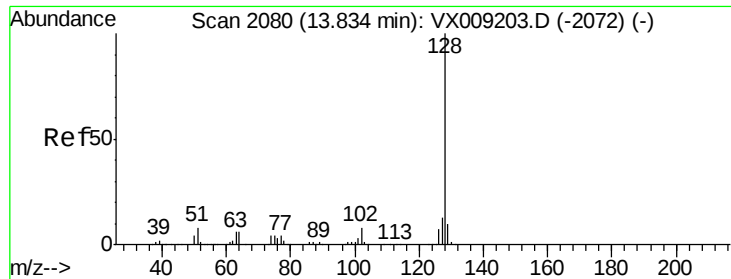
MMDadoda  
5/23/2019 10:44:50 AM



#89  
n-Butylbenzene  
Concen: 6.976 ug/l m  
RT: 12.38 min Scan# 1841  
Delta R.T. -0.01 min  
Lab File: VX009808.D  
Acq: 22 May 2019 16:44

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 91      | 100   |       |       |
| 92      | 80.6  | 26.5  | 79.5# |
| 134     | 326.9 | 12.4  | 37.2# |





#95  
Naphthalene  
Concen: 0.598 ug/l  
RT: 13.83 min Scan# 2080  
Delta R.T. 0.00 min  
Lab File: VX009808.D  
Acq: 22 May 2019 16:44

Instrument :  
MSVOA\_X  
ClientSampleId :  
EP1-PZ-W4-5

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 128     | 100   |       |       |
| 127     | 12.8  | 10.4  | 15.6  |
| 129     | 0.0   | 8.6   | 13.0  |

Manual Integrations  
APPROVED

MMDadoda  
5/23/2019 10:44:50 AM

