

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN092120\  
 Data File : VN063489.D  
 Acq On : 21 Sep 2020 16:33  
 Operator : JC/MD  
 Sample : L4033-01 10X  
 Misc : 5.00mL/MSVOA N/WATER  
 ALS Vial : 16 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 20781

Manual Integrations  
 APPROVED

MMDadoda  
 9/22/2020 2:07:11 PM

Quant Time: Sep 22 03:38:16 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N091620W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Sep 16 13:05:20 2020  
 Response via : Initial Calibration

| Internal Standards          | R.T.   | QIon | Response | Conc    | Units   | Dev(Min) |
|-----------------------------|--------|------|----------|---------|---------|----------|
| 1) Pentafluorobenzene       | 7.63   | 168  | 228613   | 50.00   | ug/l    | 0.00     |
| 34) 1,4-Difluorobenzene     | 8.55   | 114  | 415203   | 50.00   | ug/l    | 0.00     |
| 63) Chlorobenzene-d5        | 11.38  | 117  | 408785   | 50.00   | ug/l    | 0.00     |
| 72) 1,4-Dichlorobenzene-d4  | 13.32  | 152  | 188125   | 50.00   | ug/l    | 0.00     |
| System Monitoring Compounds |        |      |          |         |         |          |
| 33) 1,2-Dichloroethane-d4   | 7.99   | 65   | 176605   | 45.38   | ug/l    | 0.00     |
| Spiked Amount               | 50.000 |      | Recovery | =       | 90.76%  |          |
| 35) Dibromofluoromethane    | 7.55   | 113  | 130719   | 45.48   | ug/l    | 0.00     |
| Spiked Amount               | 50.000 |      | Recovery | =       | 90.96%  |          |
| 50) Toluene-d8              | 10.06  | 98   | 529217   | 48.96   | ug/l    | 0.00     |
| Spiked Amount               | 50.000 |      | Recovery | =       | 97.92%  |          |
| 62) 4-Bromofluorobenzene    | 12.38  | 95   | 222609   | 56.19   | ug/l    | 0.00     |
| Spiked Amount               | 50.000 |      | Recovery | =       | 112.38% |          |
| Target Compounds            |        |      |          |         |         |          |
|                             |        |      |          |         | Qvalue  |          |
| 16) Acetone                 | 3.77   | 43   | 369664   | 295.567 | ug/l    | 100      |
| 19) Methyl tert-butyl Ether | 4.99   | 73   | 63251    | 6.578   | ug/l    | 98       |
| 22) Diisopropyl ether       | 5.91   | 45   | 18932    | 1.819   | ug/l #  | 93       |
| 25) 2-Butanone              | 6.79   | 43   | 14435m   | 7.504   | ug/l    |          |
| 37) Ethyl Acetate           | 6.88   | 43   | 450671   | 103.808 | ug/l    | 97       |
| 40) Benzene                 | 8.00   | 78   | 705703   | 55.888  | ug/l    | 99       |
| 52) Toluene                 | 10.12  | 92   | 605157   | 79.711  | ug/l    | 100      |
| 67) Ethyl Benzene           | 11.48  | 91   | 50686    | 3.102   | ug/l    | 100      |
| 68) m/p-Xylenes             | 11.59  | 106  | 73266    | 12.435  | ug/l    | 99       |
| 69) o-Xylene                | 11.92  | 106  | 62339    | 11.107  | ug/l    | 98       |
| 80) 1,3,5-Trimethylbenzene  | 12.71  | 105  | 13364    | 1.063   | ug/l    | 97       |
| 84) 1,2,4-Trimethylbenzene  | 13.01  | 105  | 86147    | 6.785   | ug/l    | 99       |
| 95) Naphthalene             | 15.10  | 128  | 98770    | 8.218   | ug/l    | 99       |

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

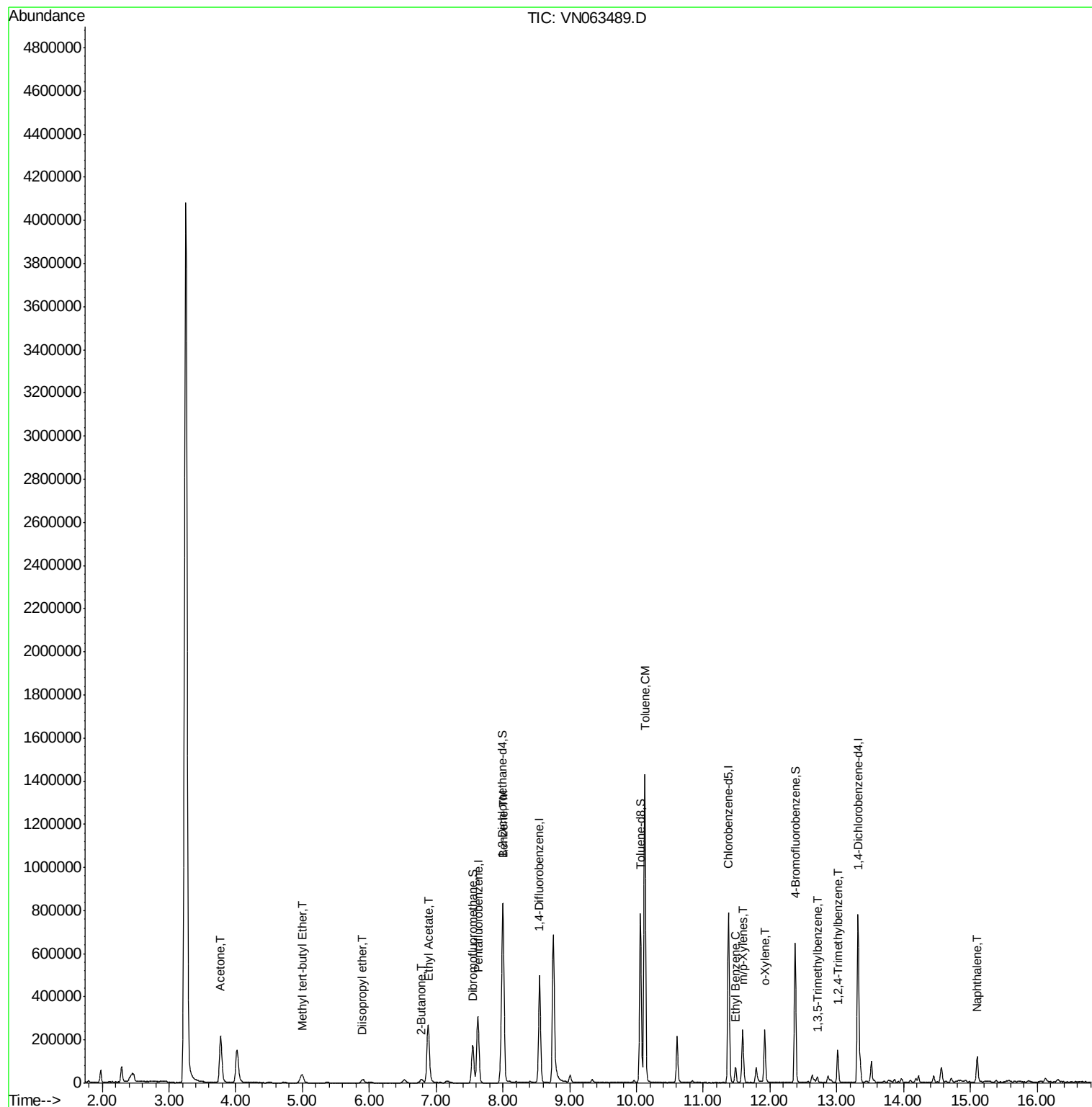
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA N\DATA\VN092120\  
Data File : VN063489.D  
Acq On : 21 Sep 2020 16:33  
Operator : JC/MD  
Sample : L4033-01 10X  
Misc : 5.00mL/MSVOA N/WATER  
ALS Vial : 16 Sample Multiplier: 1

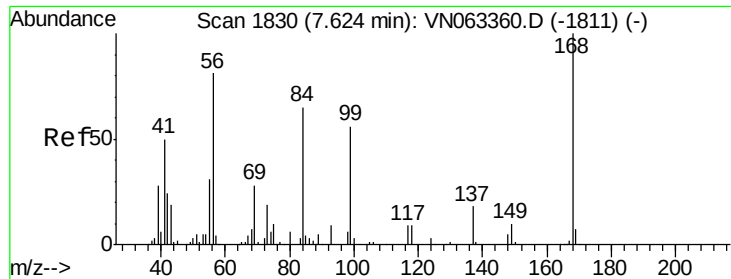
Instrument :  
MSVOA\_N  
ClientSampleId :  
20781

Manual Integrations  
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Quant Time: Sep 22 03:38:16 2020  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_N\METHODS\82N091620W.M  
Quant Title : SW846 8260  
QLast Update : Wed Sep 16 13:05:20 2020  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.63 min Scan# 1831

Delta R.T. 0.00 min

Lab File: VN063489.D

Acq: 21 Sep 2020 16:33

Instrument :

MSVOA\_N

ClientSampleId :

20781

Tot Ion:168 Resp: 228613

Ion Ratio Lower Upper

168 100

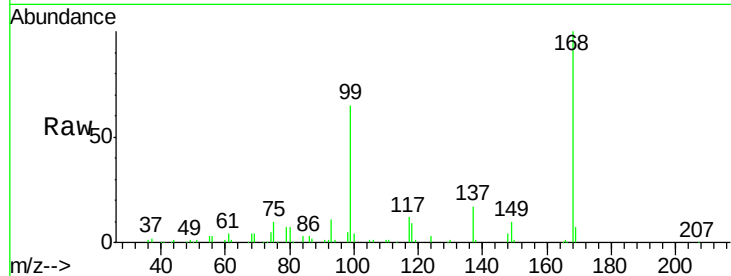
99 65.4 53.0 79.6

Manual Integrations

APPROVED

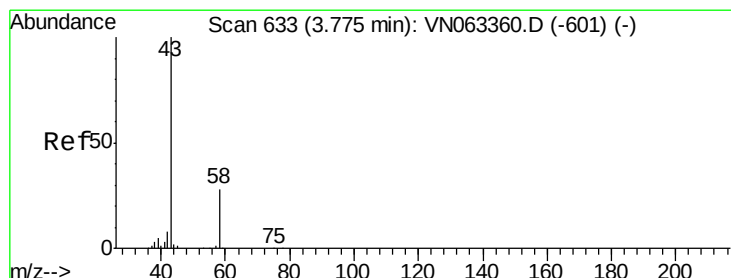
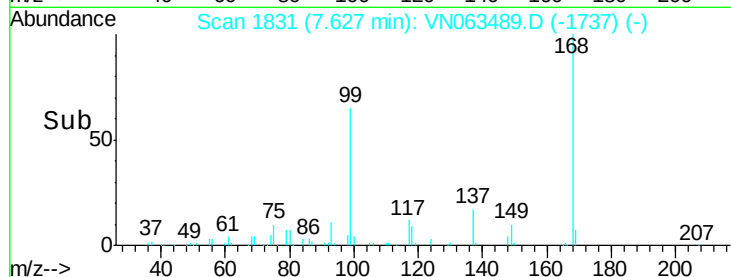
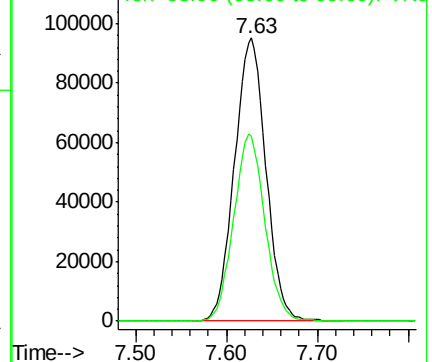
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Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO



#16

Acetone

Concen: 295.567 ug/l

RT: 3.77 min Scan# 632

Delta R.T. -0.00 min

Lab File: VN063489.D

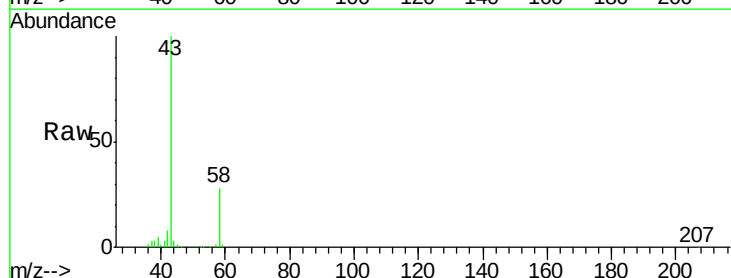
Acq: 21 Sep 2020 16:33

Tgt Ion: 43 Resp: 369664

Ion Ratio Lower Upper

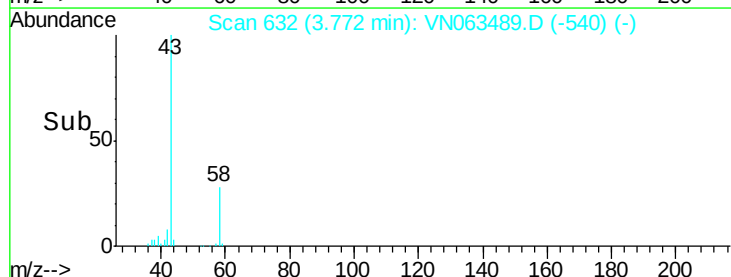
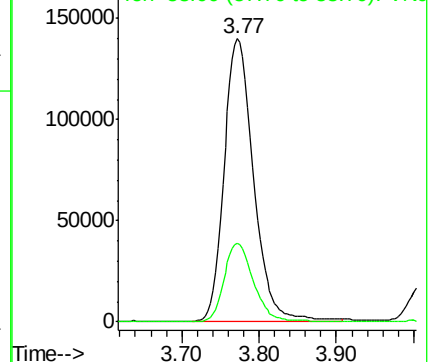
43 100

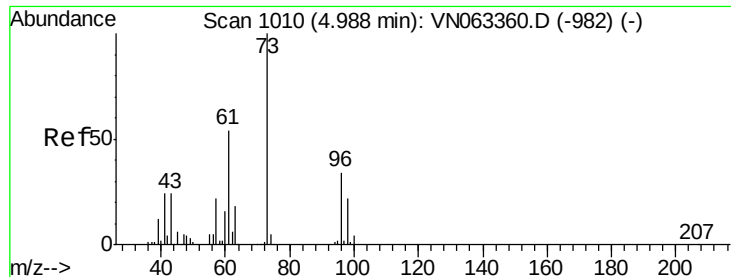
58 27.9 22.3 33.5



Abundance Ion 43.00 (42.70 to 43.70): VNO

Ion 58.00 (57.70 to 58.70): VNO





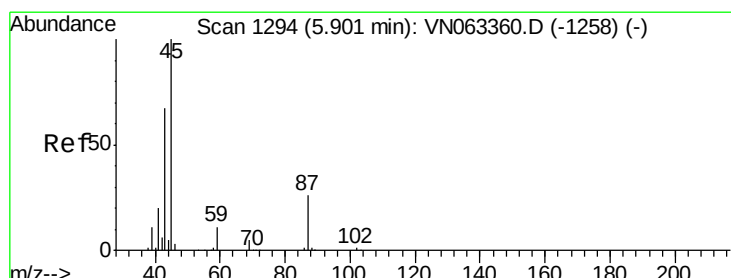
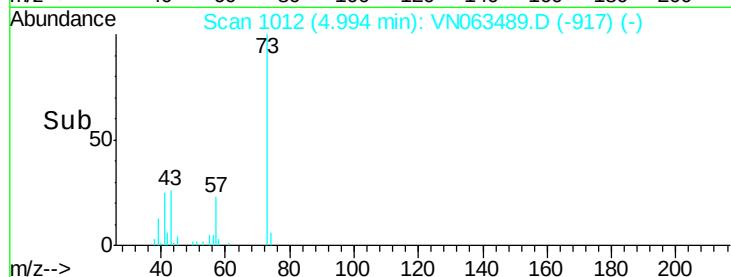
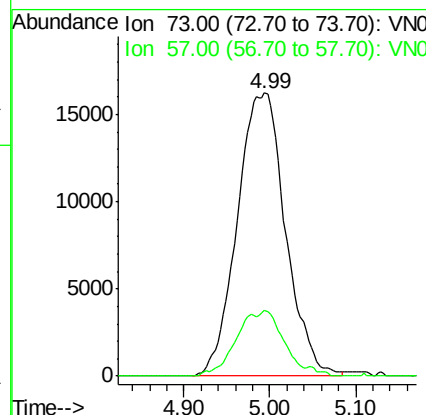
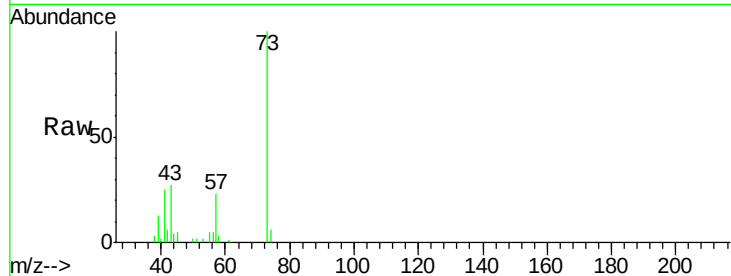
#19  
Methyl tert-butyl Ether  
Concen: 6.578 ug/l  
RT: 4.99 min Scan# 1012  
Delta R.T. 0.01 min  
Lab File: VN063489.D  
Acq: 21 Sep 2020 16:33

Instrument :  
MSVOA\_N  
ClientSampled :  
20781

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 73      | 100   |       |       |
| 57      | 23.2  | 17.9  | 26.9  |

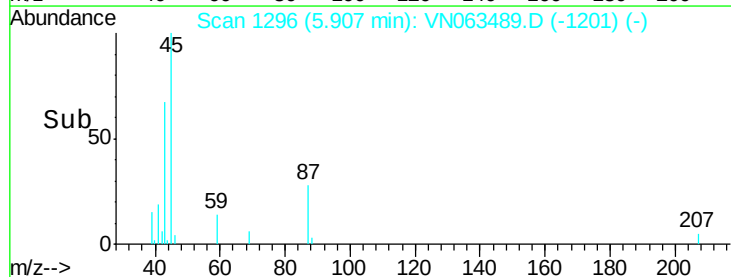
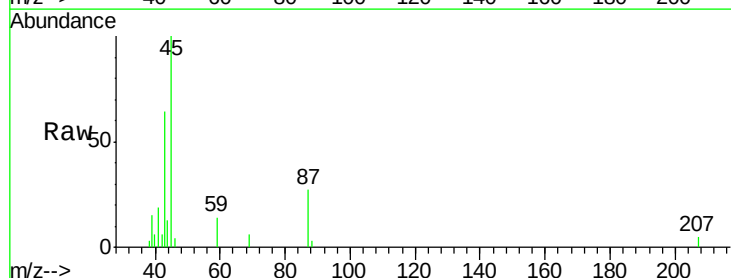
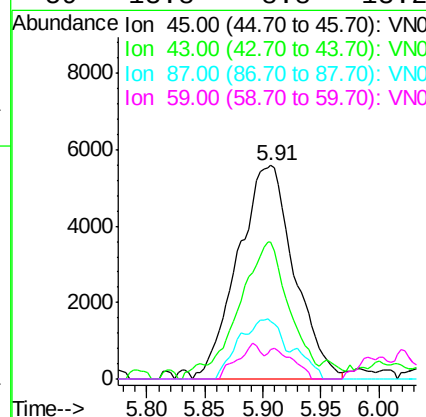
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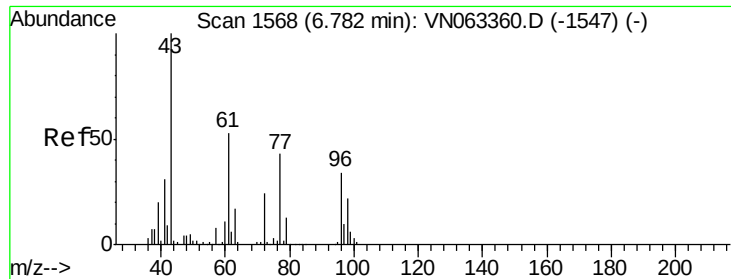
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#22  
Diisopropyl ether  
Concen: 1.819 ug/l  
RT: 5.91 min Scan# 1296  
Delta R.T. 0.01 min  
Lab File: VN063489.D  
Acq: 21 Sep 2020 16:33

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 45      | 100   |       |       |
| 43      | 60.0  | 53.5  | 80.3  |
| 87      | 27.0  | 21.2  | 31.8  |
| 59      | 13.8  | 8.8   | 13.2# |





#25

2-Butanone

Concen: 7.504 ug/l m

RT: 6.79 min Scan# 1570

Delta R.T. 0.01 min

Lab File: VN063489.D

Acq: 21 Sep 2020 16:33

Instrument :

MSVOA\_N

ClientSampled :  
20781

Tot Ion: 43 Resp: 14435

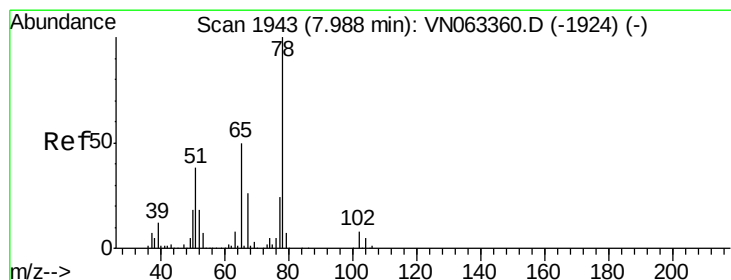
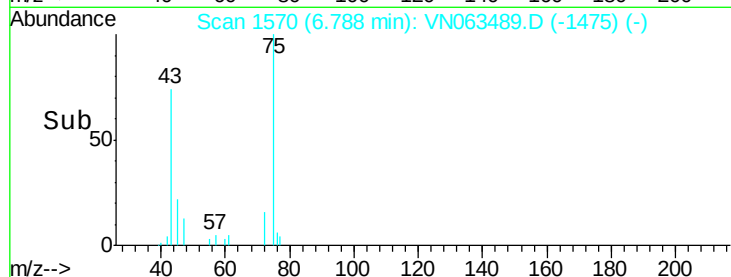
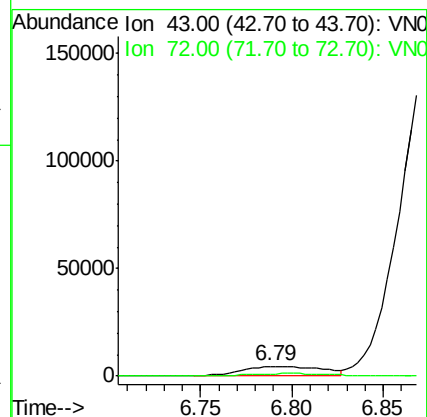
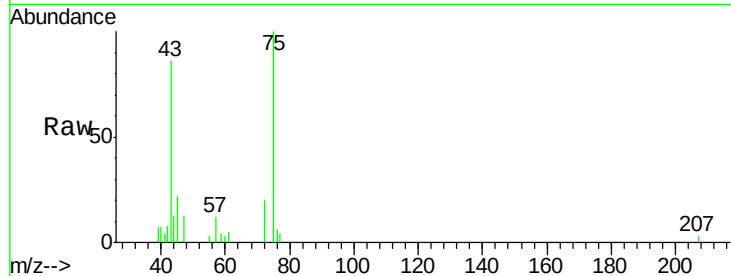
Ion Ratio Lower Upper

43 100

72 23.2 19.2 28.8

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#33

1,2-Dichloroethane-d4

Concen: 45.381 ug/l

RT: 7.99 min Scan# 1943

Delta R.T. -0.00 min

Lab File: VN063489.D

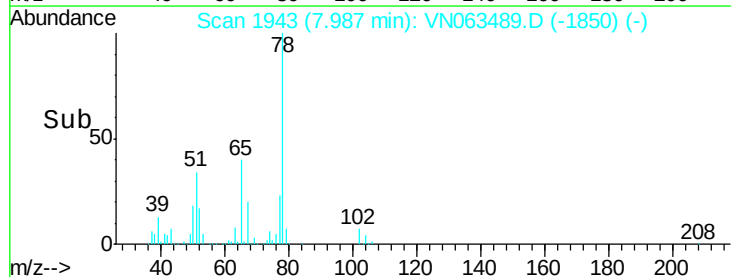
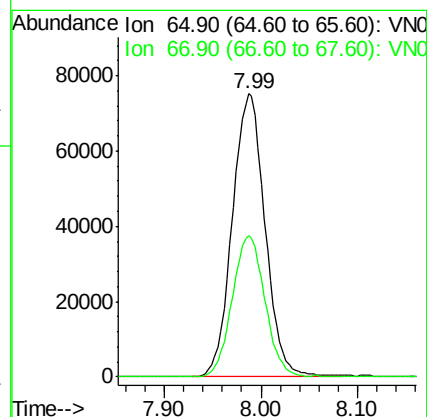
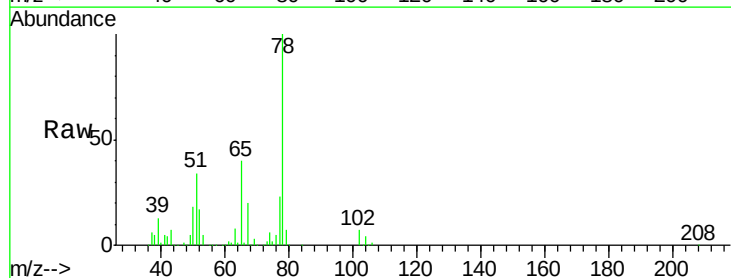
Acq: 21 Sep 2020 16:33

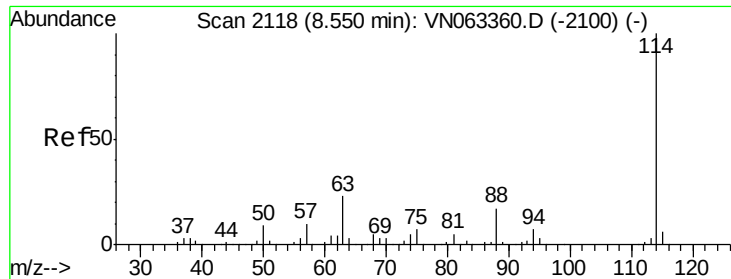
Tgt Ion: 65 Resp: 176605

Ion Ratio Lower Upper

65 100

67 49.8 0.0 104.2





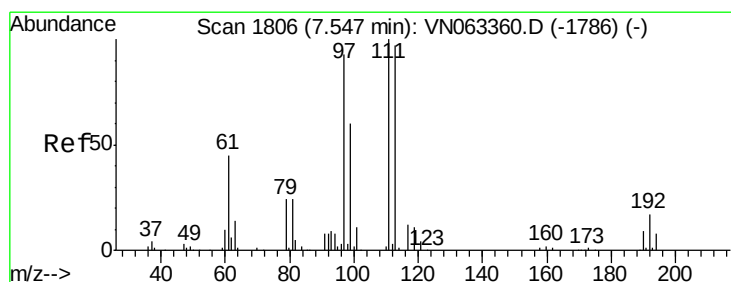
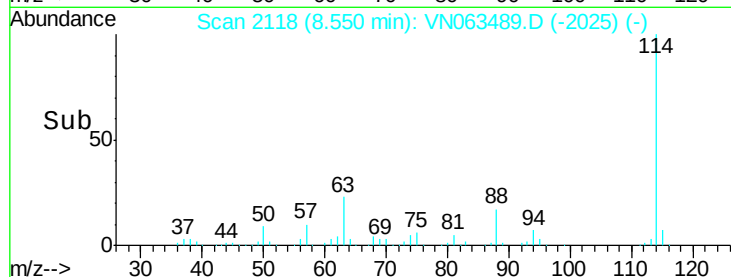
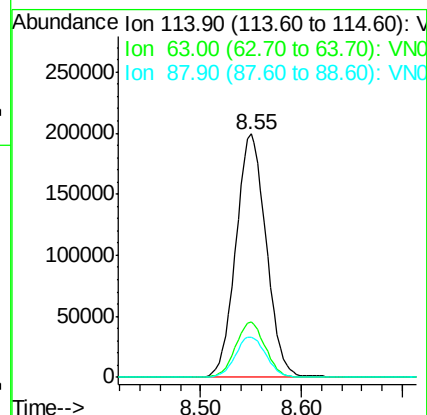
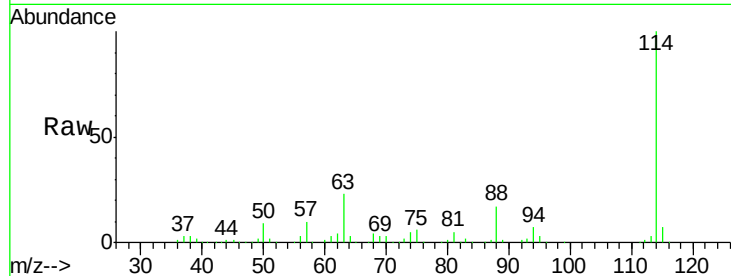
#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.55 min Scan# 2118  
 Delta R.T. -0.00 min  
 Lab File: VN063489.D  
 Acq: 21 Sep 2020 16:33

Instrument :  
 MSVOA\_N  
 ClientSampled :  
 20781

| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 114     | 100   | 415203 |       |       |
| 63      | 22.5  | 0.0    | 46.4  |       |
| 88      | 16.6  | 0.0    | 33.2  |       |

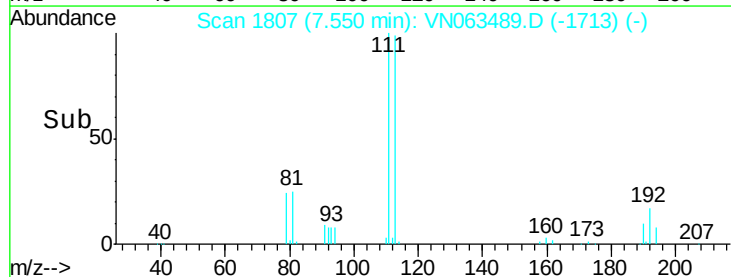
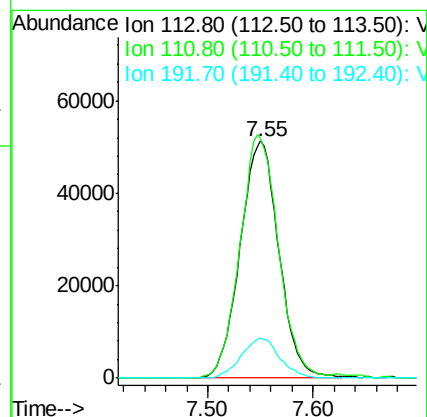
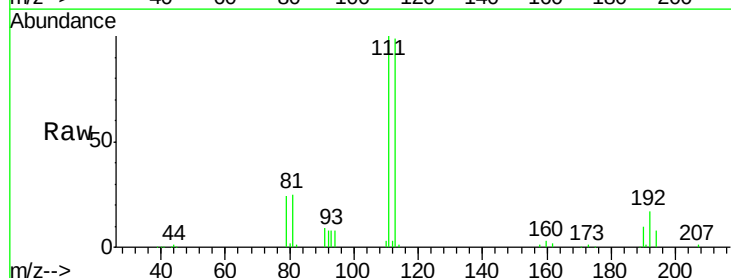
Manual Integrations  
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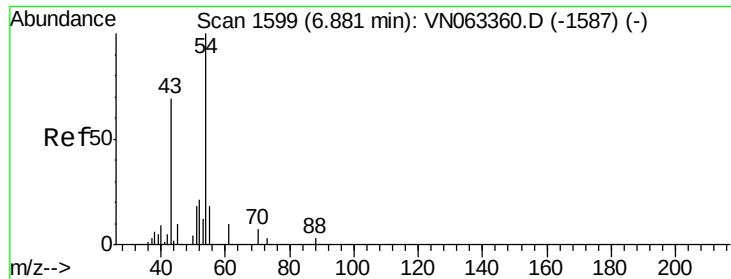
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#35  
 Dibromofluoromethane  
 Concen: 45.477 ug/l  
 RT: 7.55 min Scan# 1807  
 Delta R.T. 0.00 min  
 Lab File: VN063489.D  
 Acq: 21 Sep 2020 16:33

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 113     | 100   | 130719 |       |       |
| 111     | 101.8 | 82.9   | 124.3 |       |
| 192     | 16.7  | 13.9   | 20.9  |       |





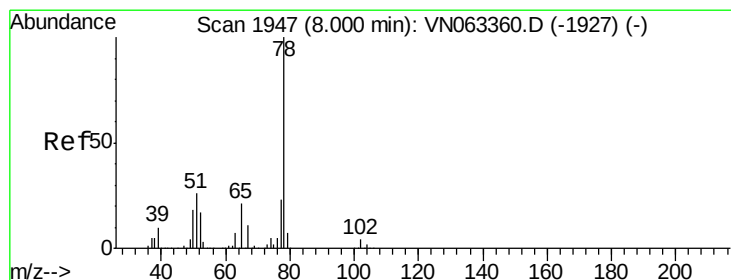
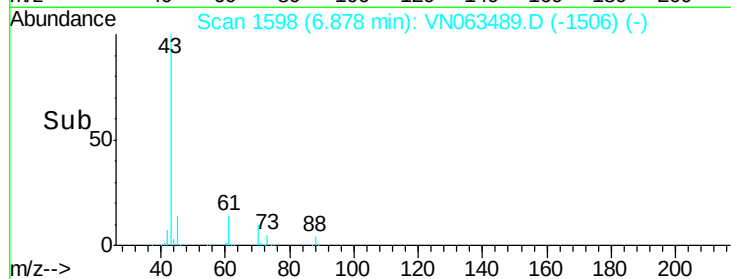
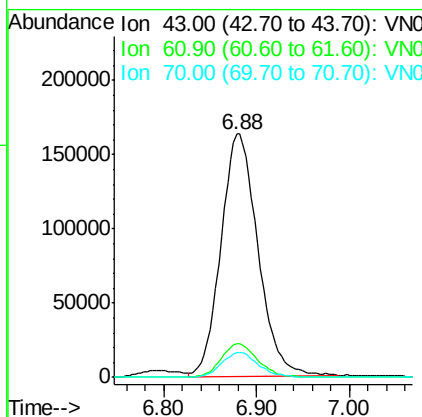
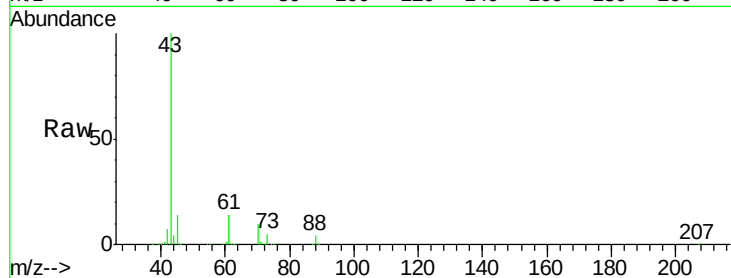
#37  
Ethyl Acetate  
Concen: 103.808 ug/l  
RT: 6.88 min Scan# 1598  
Delta R.T. -0.00 min  
Lab File: VN063489.D  
Acq: 21 Sep 2020 16:33

Instrument :  
MSVOA\_N  
ClientSampled :  
20781

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 43      | 100   |       |       |
| 61      | 14.1  | 10.6  | 15.8  |
| 70      | 10.2  | 7.2   | 10.8  |

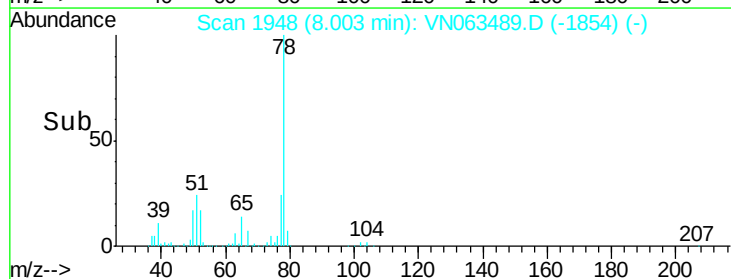
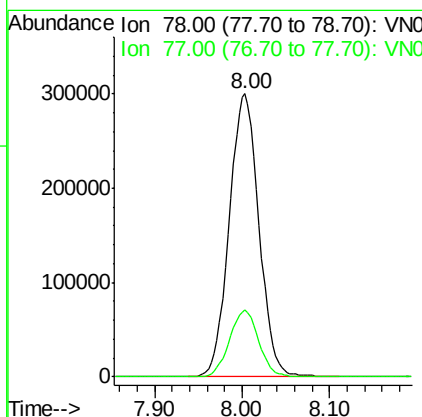
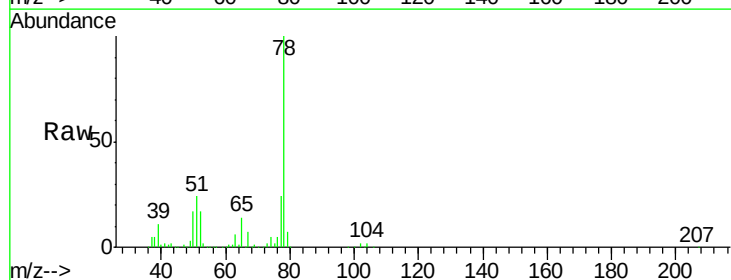
Manual Integrations  
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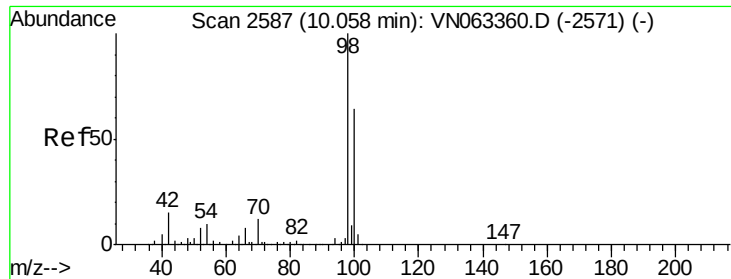
MMDadoda  
9/22/2020 2:07:11 PM



#40  
Benzene  
Concen: 55.888 ug/l  
RT: 8.00 min Scan# 1948  
Delta R.T. 0.00 min  
Lab File: VN063489.D  
Acq: 21 Sep 2020 16:33

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 78      | 100   |       |       |
| 77      | 23.6  | 18.3  | 27.5  |





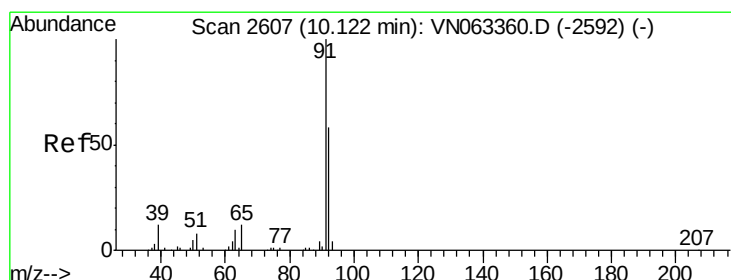
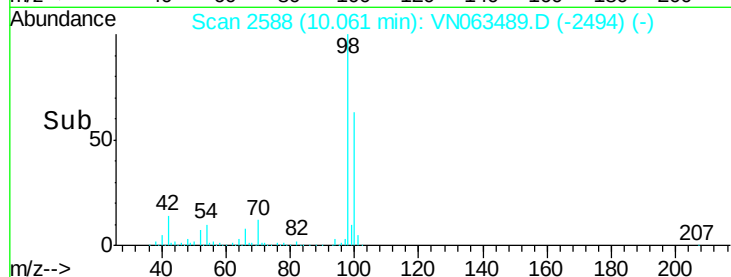
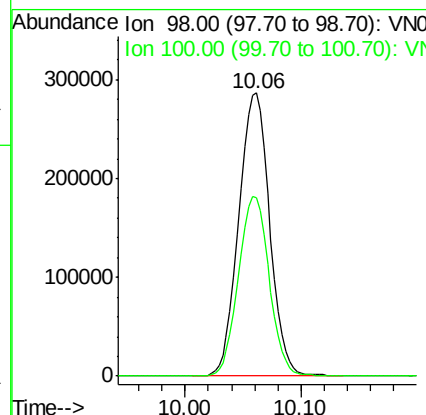
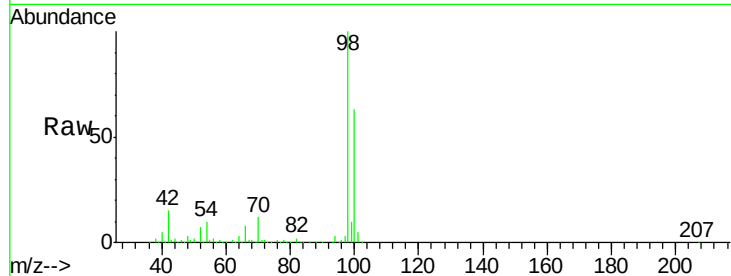
#50  
Toluene-d8  
Concen: 48.965 ug/l  
RT: 10.06 min Scan# 2588  
Delta R.T. 0.00 min  
Lab File: VN063489.D  
Acq: 21 Sep 2020 16:33

Instrument :  
MSVOA\_N  
ClientSampled :  
20781

Tot Ion: 98 Resp: 529217  
Ion Ratio Lower Upper  
98 100  
100 63.2 50.7 76.1

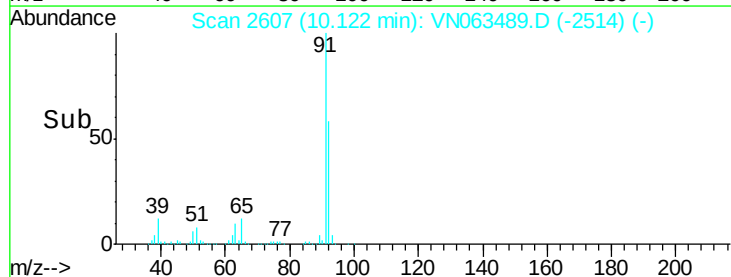
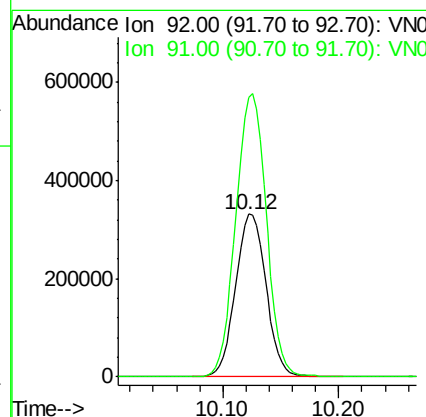
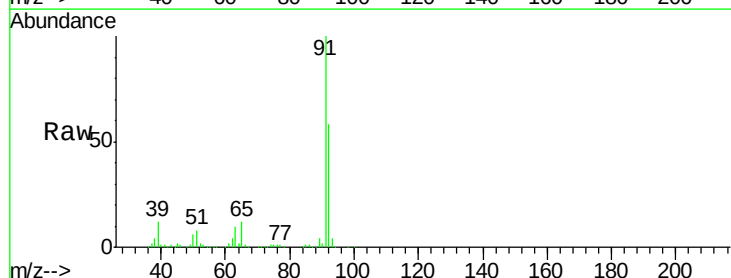
Manual Integrations  
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9/22/2020 2:07:11 PM

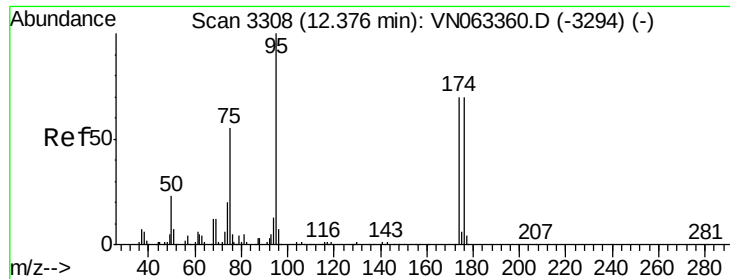


#52  
Toluene  
Concen: 79.711 ug/l  
RT: 10.12 min Scan# 2607  
Delta R.T. -0.00 min  
Lab File: VN063489.D  
Acq: 21 Sep 2020 16:33

Tgt Ion: 92 Resp: 605157  
Ion Ratio Lower Upper  
92 100  
91 175.1 139.7 209.5







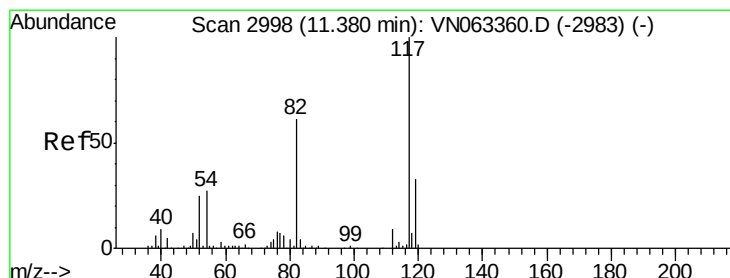
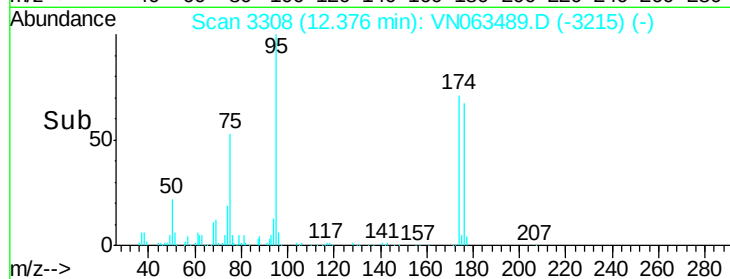
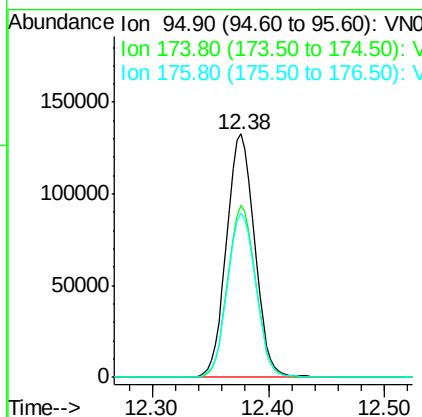
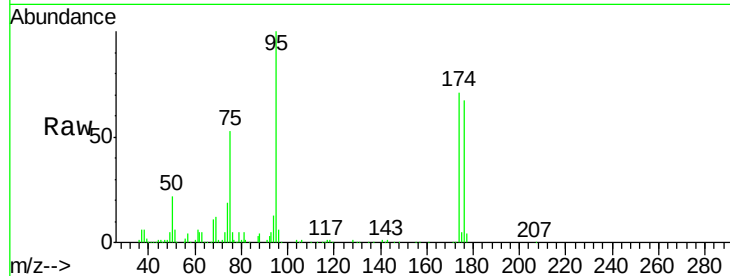
#62  
4-Bromofluorobenzene  
Concen: 56.185 ug/l  
RT: 12.38 min Scan# 3308  
Delta R.T. -0.00 min  
Lab File: VN063489.D  
Acq: 21 Sep 2020 16:33

Instrument :  
MSVOA\_N  
ClientSampleId :  
20781

| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 95      | 100   | 222609 |       |       |
| 174     | 70.2  | 0.0    | 140.8 |       |
| 176     | 68.2  | 0.0    | 137.6 |       |

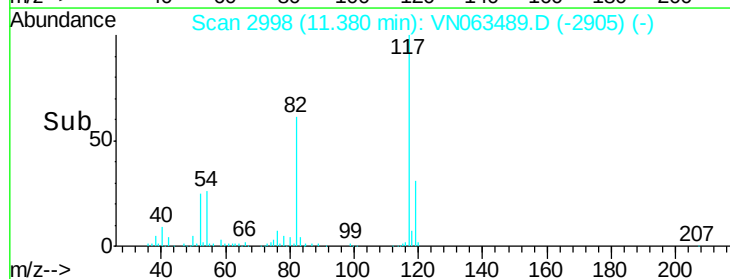
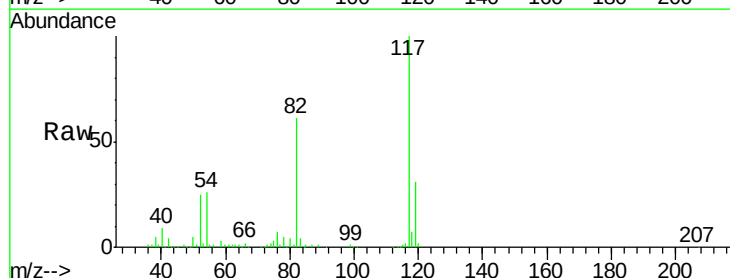
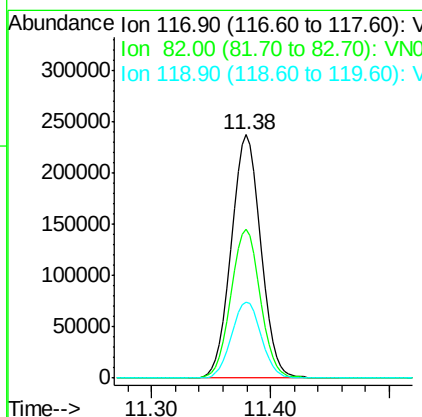
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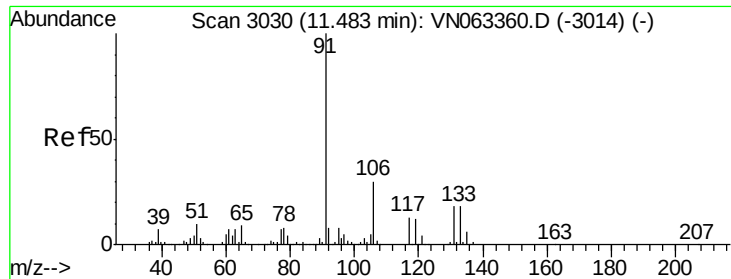
MMDadoda  
9/22/2020 2:07:11 PM



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.38 min Scan# 2998  
Delta R.T. -0.00 min  
Lab File: VN063489.D  
Acq: 21 Sep 2020 16:33

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 117     | 100   | 408785 |       |       |
| 82      | 61.2  | 49.2   | 73.8  |       |
| 119     | 31.3  | 26.2   | 39.4  |       |





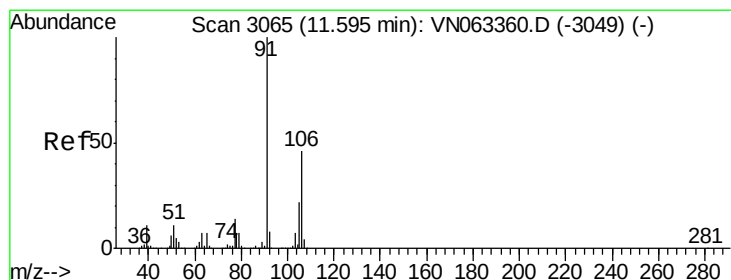
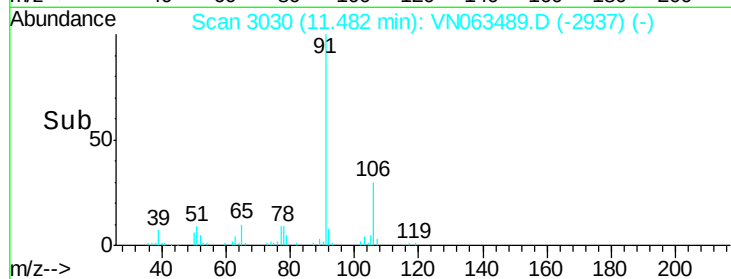
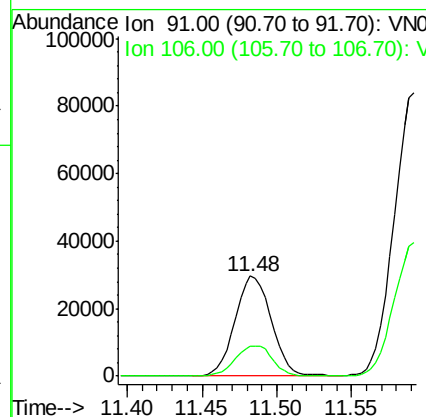
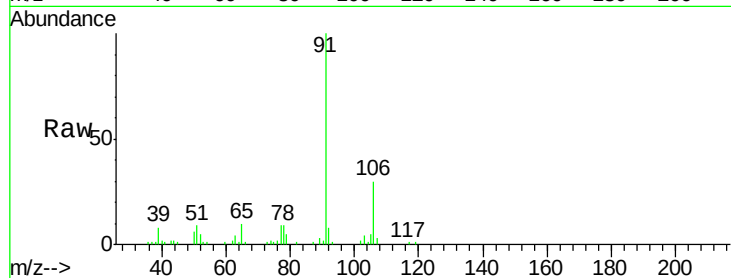
#67  
Ethyl Benzene  
Concen: 3.102 ug/l  
RT: 11.48 min Scan# 3030  
Delta R.T. -0.00 min  
Lab File: VN063489.D  
Acq: 21 Sep 2020 16:33

Instrument :  
MSVOA\_N  
ClientSampled :  
20781

Tot Ion: 91 Resp: 50686  
Ion Ratio Lower Upper  
91 100  
106 29.8 23.8 35.6

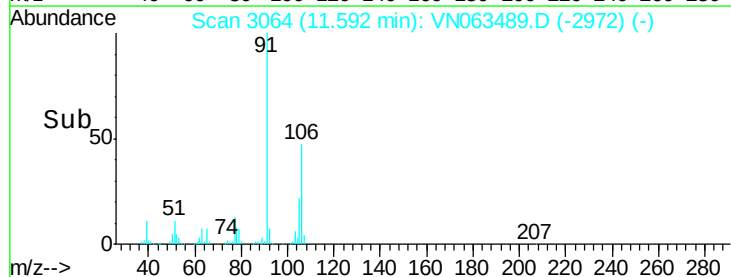
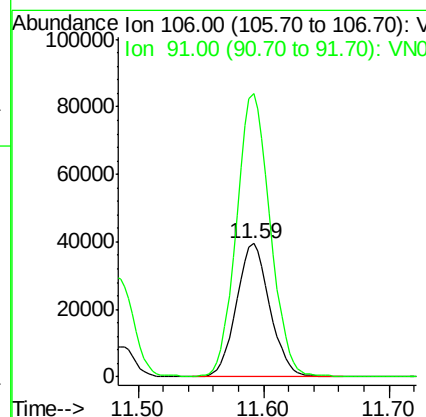
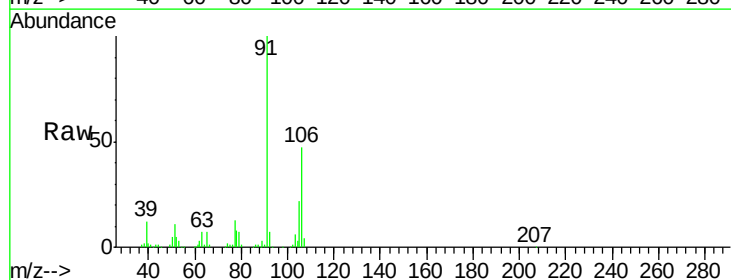
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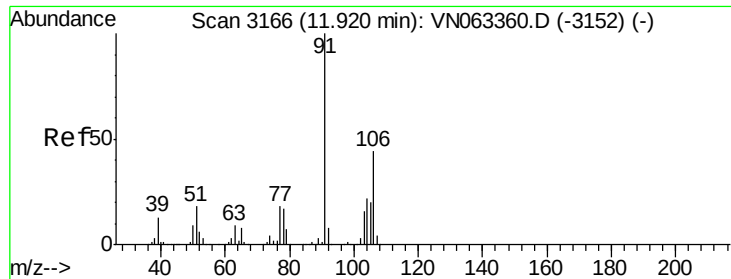
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#68  
m/p-Xylenes  
Concen: 12.435 ug/l  
RT: 11.59 min Scan# 3064  
Delta R.T. -0.00 min  
Lab File: VN063489.D  
Acq: 21 Sep 2020 16:33

Tgt Ion: 106 Resp: 73266  
Ion Ratio Lower Upper  
106 100  
91 212.5 171.2 256.8





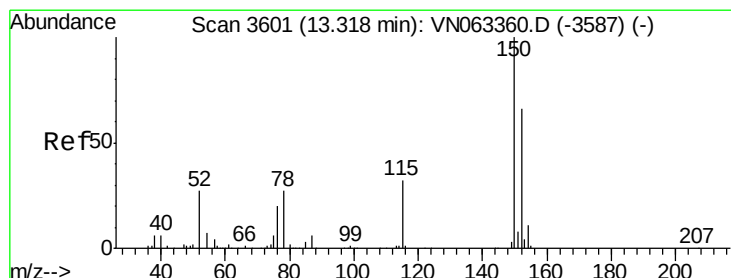
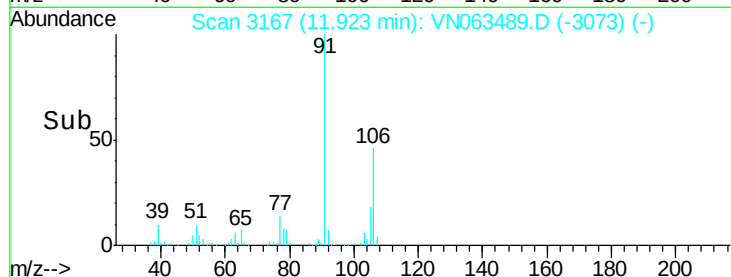
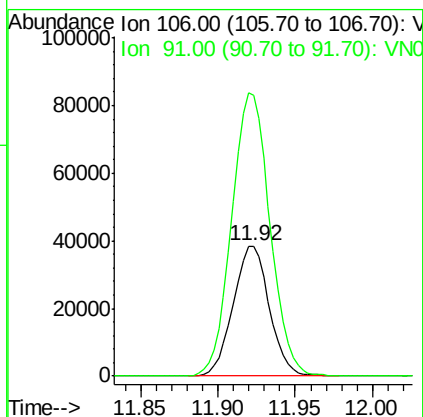
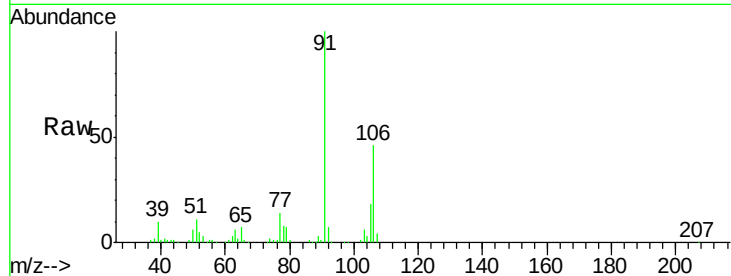
#69  
o-Xylene  
Concen: 11.107 ug/l  
RT: 11.92 min Scan# 3167  
Delta R.T. 0.00 min  
Lab File: VN063489.D  
Acq: 21 Sep 2020 16:33

Instrument :  
MSVOA\_N  
ClientSampled :  
20781

| Tot Ion | Ion   | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|-------|
| 106     | 100   |       | 62339 |       |       |
| 91      | 230.1 | 113.6 | 340.8 |       |       |

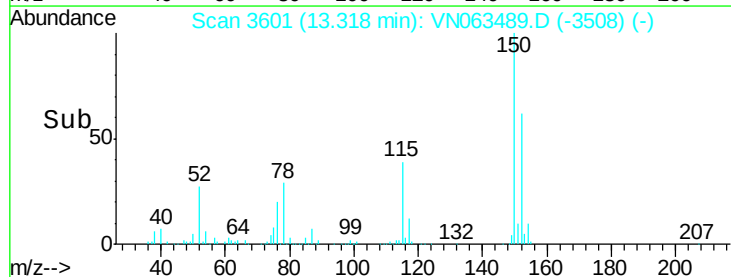
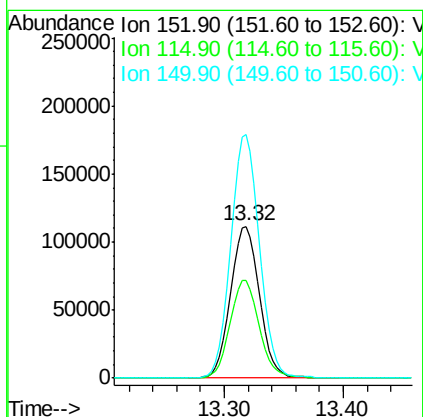
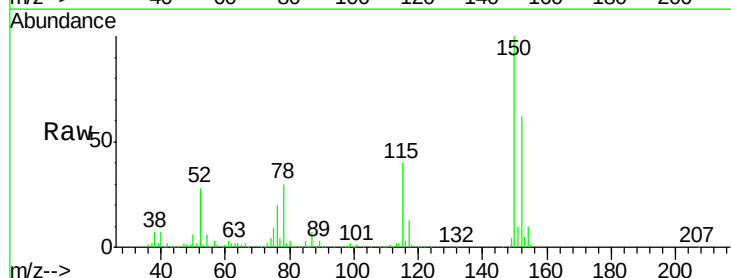
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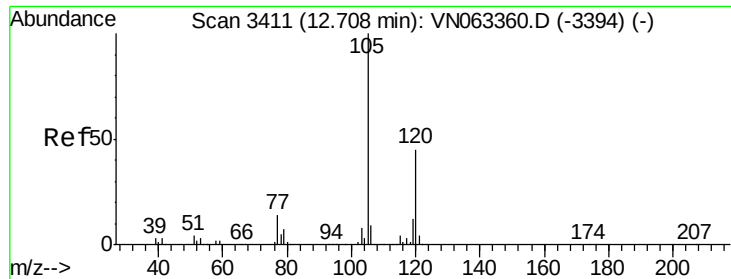
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#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.32 min Scan# 3601  
Delta R.T. -0.00 min  
Lab File: VN063489.D  
Acq: 21 Sep 2020 16:33

| Tgt Ion | Ion   | Ratio | Resp   | Lower | Upper |
|---------|-------|-------|--------|-------|-------|
| 152     | 100   |       | 188125 |       |       |
| 115     | 65.5  | 32.2  | 96.6   |       |       |
| 150     | 159.1 | 0.0   | 343.4  |       |       |





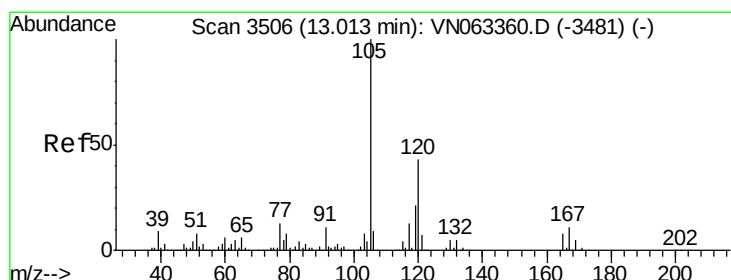
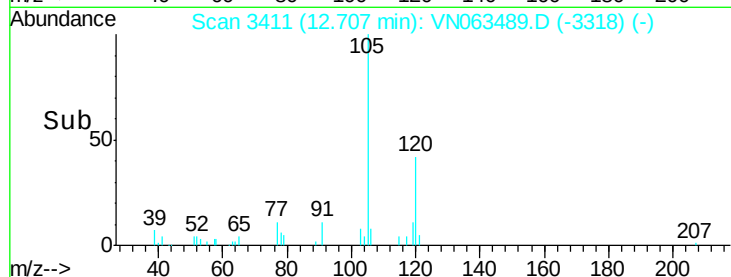
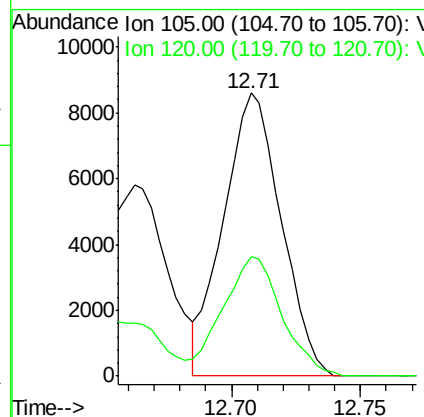
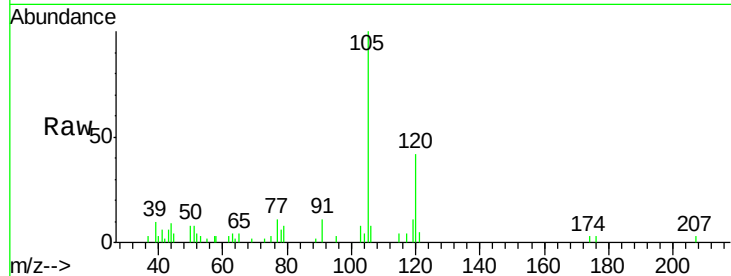
#80  
 1,3,5-Trimethylbenzene  
 Concen: 1.063 ug/l  
 RT: 12.71 min Scan# 3411  
 Delta R.T. -0.00 min  
 Lab File: VN063489.D  
 Acq: 21 Sep 2020 16:33

Instrument :  
 MSVOA\_N  
 ClientSampled :  
 20781

| Tot Ion   | 105  | Resp  | 13364 |
|-----------|------|-------|-------|
| Ion Ratio | 100  | Lower | Upper |
| 105       | 100  |       |       |
| 120       | 43.8 | 22.9  | 68.8  |

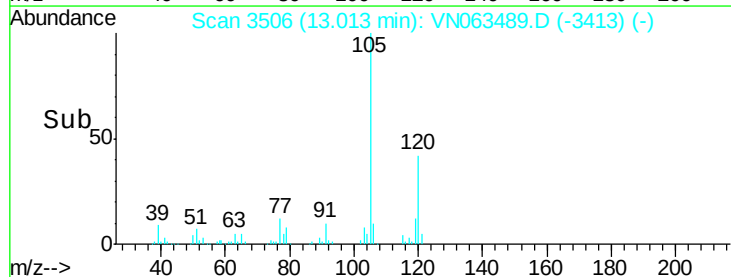
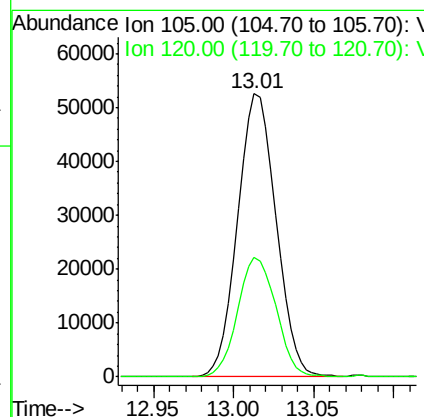
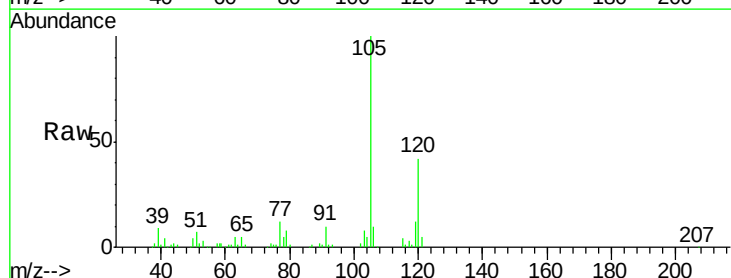
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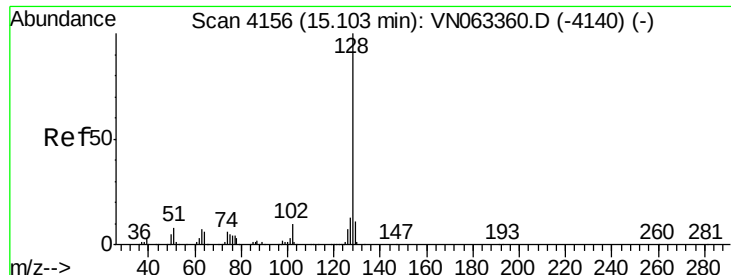
MMDadoda  
 9/22/2020 2:07:11 PM



#84  
 1,2,4-Trimethylbenzene  
 Concen: 6.785 ug/l  
 RT: 13.01 min Scan# 3506  
 Delta R.T. -0.00 min  
 Lab File: VN063489.D  
 Acq: 21 Sep 2020 16:33

| Tgt Ion                                              | 105  | Resp  | 86147 |
|------------------------------------------------------|------|-------|-------|
| Ion Ratio <td>100</td> <td>Lower</td> <td>Upper</td> | 100  | Lower | Upper |
| 105                                                  | 100  |       |       |
| 120                                                  | 42.0 | 21.3  | 63.9  |





#95  
Naphthalene  
Concen: 8.218 ug/l  
RT: 15.10 min Scan# 4156  
Delta R.T. -0.00 min  
Lab File: VN063489.D  
Acq: 21 Sep 2020 16:33

Instrument :  
MSVOA\_N  
ClientSampleId :  
20781

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 128     | 100   |       |       |
| 127     | 13.2  | 10.6  | 15.8  |
| 129     | 10.3  | 8.8   | 13.2  |

Manual Integrations  
APPROVED

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