

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN092019\  
 Data File : VN058254.D  
 Acq On : 20 Sep 2019 16:42  
 Operator : JC/SP  
 Sample : K4975-02DL 5X  
 Misc : 5.00mL/MSVOA N/WATER  
 ALS Vial : 22 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 TT101D1-20190917DL

Manual Integrations  
 APPROVED

MMDadoda  
 9/23/2019 3:30:33 PM

Quant Time: Sep 23 05:21:34 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N091819W.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Sep 19 09:27:53 2019  
 Response via : Initial Calibration

| Internal Standards            | R.T.  | QIon | Response | Conc   | Units   | Dev(Min) |
|-------------------------------|-------|------|----------|--------|---------|----------|
| 1) Pentafluorobenzene         | 7.65  | 168  | 501298   | 50.00  | ug/l    | 0.00     |
| 34) 1,4-Difluorobenzene       | 8.57  | 114  | 812666   | 50.00  | ug/l    | 0.00     |
| 63) Chlorobenzene-d5          | 11.41 | 117  | 698461   | 50.00  | ug/l    | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.35 | 152  | 288183   | 50.00  | ug/l    | 0.00     |
| System Monitoring Compounds   |       |      |          |        |         |          |
| 33) 1,2-Dichloroethane-d4     | 8.01  | 65   | 366949   | 52.56  | ug/l    | 0.00     |
| Spiked Amount 50.000          |       |      | Recovery | =      | 105.12% |          |
| 35) Dibromofluoromethane      | 7.57  | 113  | 249141   | 50.43  | ug/l    | 0.00     |
| Spiked Amount 50.000          |       |      | Recovery | =      | 100.86% |          |
| 50) Toluene-d8                | 10.08 | 98   | 1025762  | 53.29  | ug/l    | 0.00     |
| Spiked Amount 50.000          |       |      | Recovery | =      | 106.58% |          |
| 62) 4-Bromofluorobenzene      | 12.41 | 95   | 329925   | 46.14  | ug/l    | 0.00     |
| Spiked Amount 50.000          |       |      | Recovery | =      | 92.28%  |          |
| Target Compounds              |       |      |          |        |         |          |
| 9) 1,1,2-Trichlorotrifluoroet | 3.74  | 101  | 13551    | 3.344  | ug/l    | 97       |
| 12) 1,1-Dichloroethene        | 3.72  | 96   | 4545     | 1.130  | ug/l    | 97       |
| 27) cis-1,2-Dichloroethene    | 6.81  | 96   | 2288m    | 0.450  | ug/l    |          |
| 44) Trichloroethene           | 8.83  | 130  | 208671   | 47.638 | ug/l    | 98       |

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

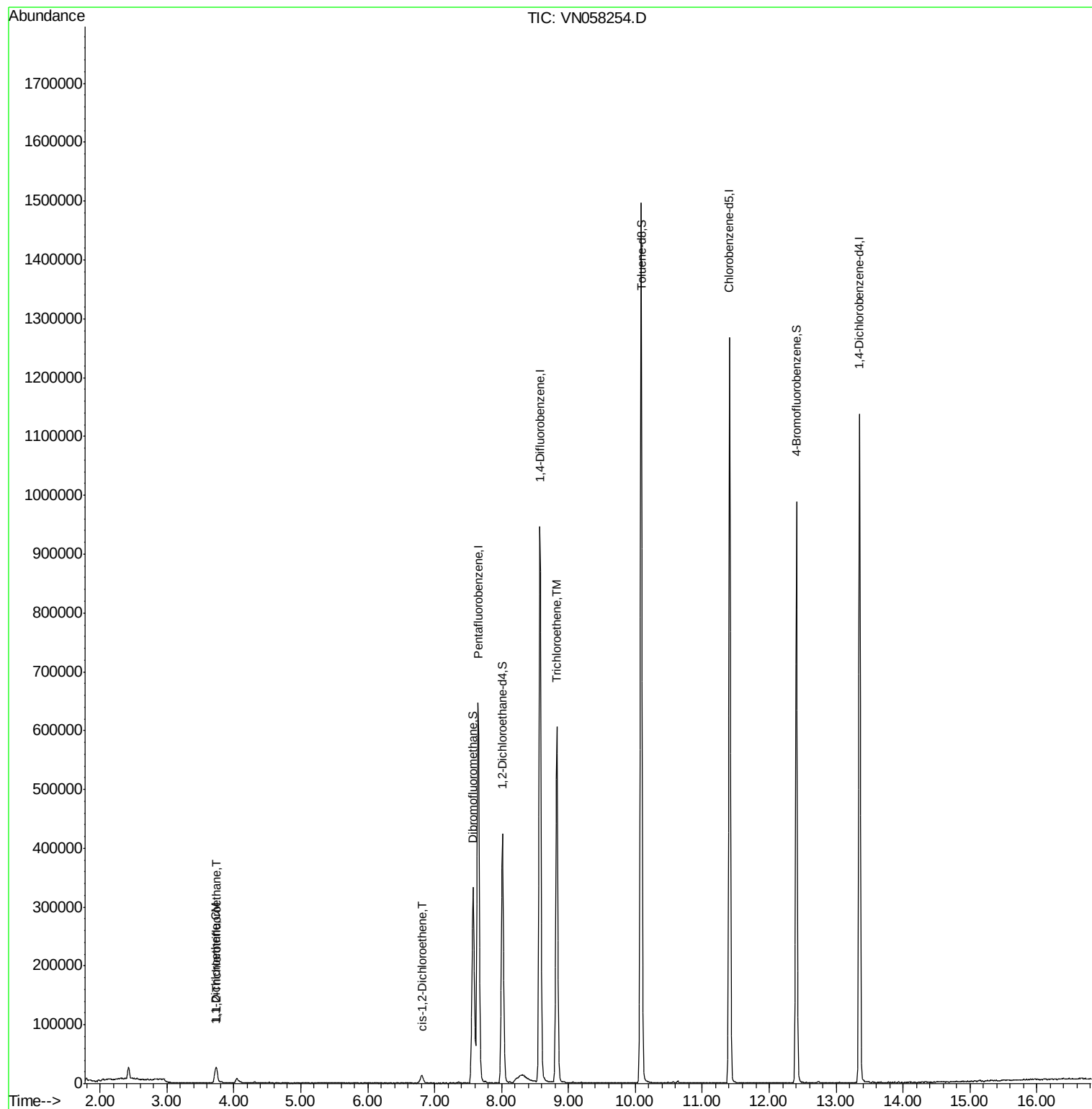
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA N\DATA\VN092019\  
Data File : VN058254.D  
Acq On : 20 Sep 2019 16:42  
Operator : JC/SP  
Sample : K4975-02DL 5X  
Misc : 5.00mL/MSVOA N/WATER  
ALS Vial : 22 Sample Multiplier: 1

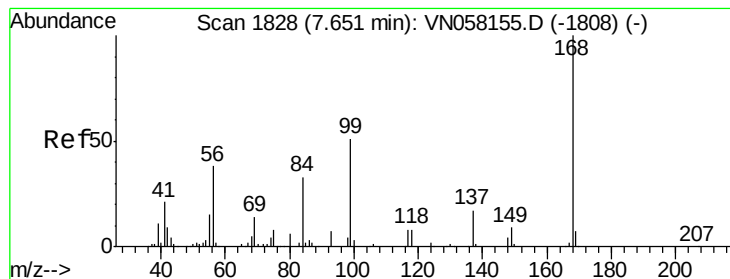
Instrument :  
MSVOA\_N  
ClientSampleId :  
TT101D1-20190917DL

Manual Integrations  
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9/23/2019 3:30:33 PM

Quant Time: Sep 23 05:21:34 2019  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_N\METHODS\82N091819W.M  
Quant Title : SW846 8260  
QLast Update : Thu Sep 19 09:27:53 2019  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.65 min Scan# 1828

Delta R.T. -0.00 min

Lab File: VN058254.D

Acq: 20 Sep 2019 16:42

Instrument :

MSVOA\_N

ClientSampleId :

TT101D1-20190917DL

Tot Ion:168 Resp: 501298

Ion Ratio Lower Upper

168 100

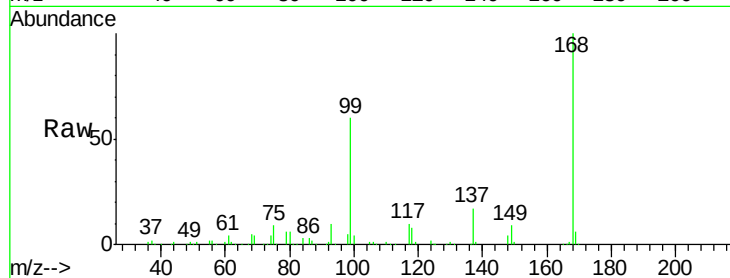
99 60.5 47.4 71.2

Manual Integrations

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Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.65

250000

200000

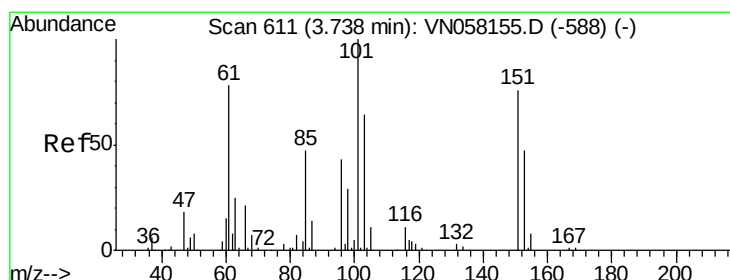
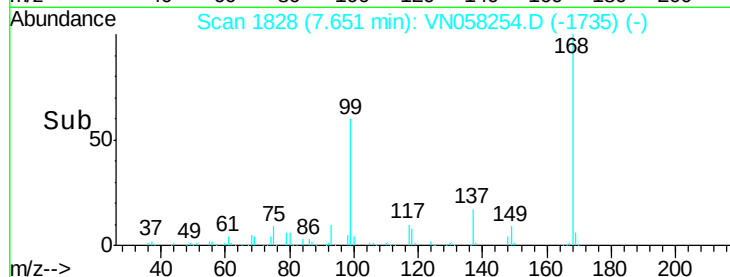
150000

100000

50000

0

Time--> 7.50 7.60 7.70 7.80



#9

1,1,2-Trichlorotrifluoroethane

Concen: 3.344 ug/l

RT: 3.74 min Scan# 613

Delta R.T. 0.01 min

Lab File: VN058254.D

Acq: 20 Sep 2019 16:42

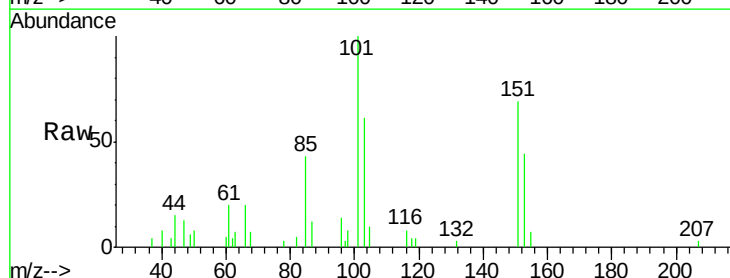
Tgt Ion:101 Resp: 13551

Ion Ratio Lower Upper

101 100

85 45.7 37.3 55.9

151 71.4 59.6 89.4



Abundance Ion 100.90 (100.60 to 101.60): V

Ion 84.90 (84.60 to 85.60): VNO

Ion 150.80 (150.50 to 151.50): V

3.74

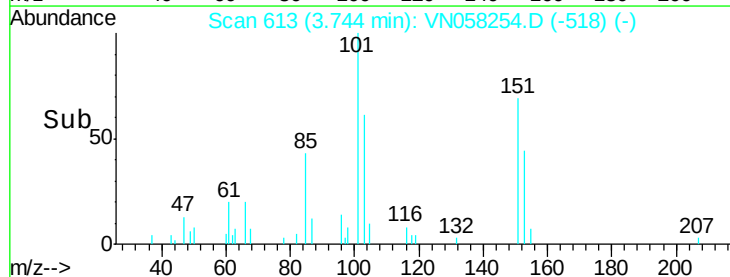
6000

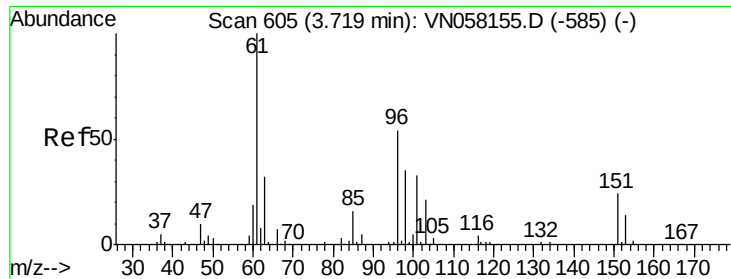
4000

2000

0

Time--> 3.65 3.70 3.75 3.80





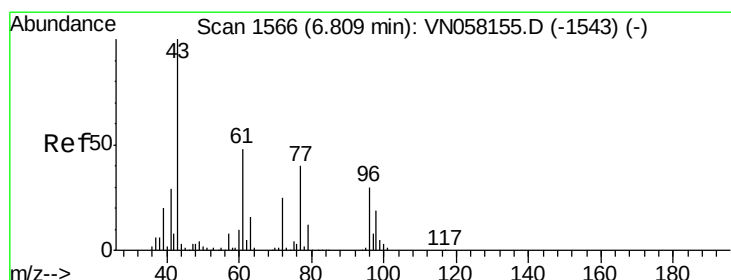
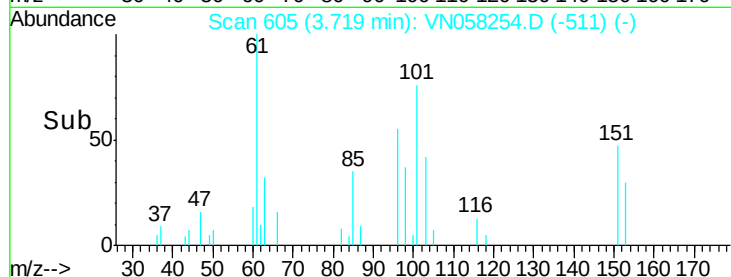
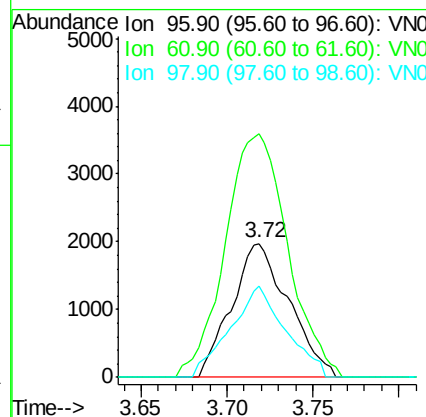
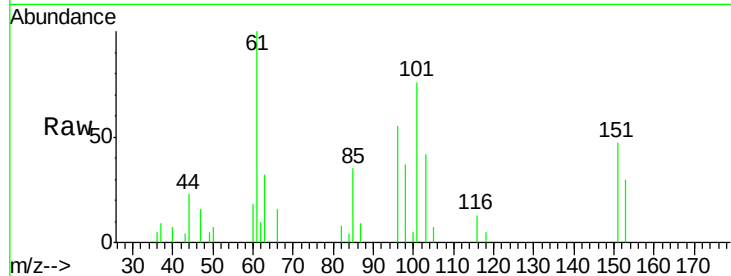
#12  
1,1-Dichloroethene  
Concen: 1.130 ug/l  
RT: 3.72 min Scan# 605  
Delta R.T. 0.00 min  
Lab File: VN058254.D  
Acq: 20 Sep 2019 16:42

Instrument :  
MSVOA\_N  
ClientSampleId :  
TT101D1-20190917DL

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 96      | 100   |       |       |
| 61      | 181.8 | 149.5 | 224.3 |
| 98      | 67.9  | 52.4  | 78.6  |

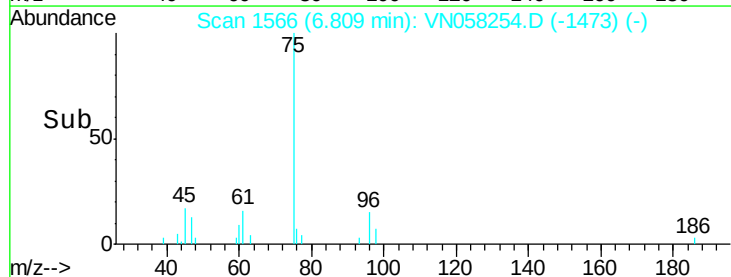
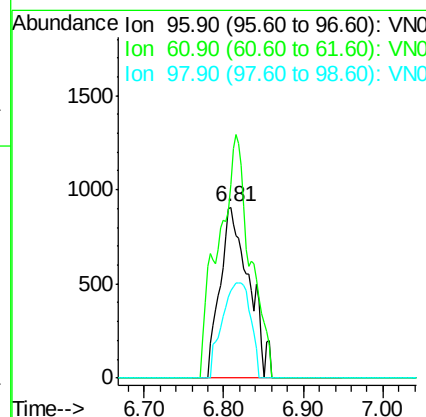
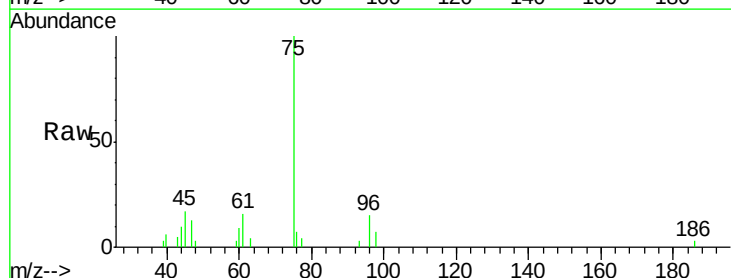
Manual Integrations  
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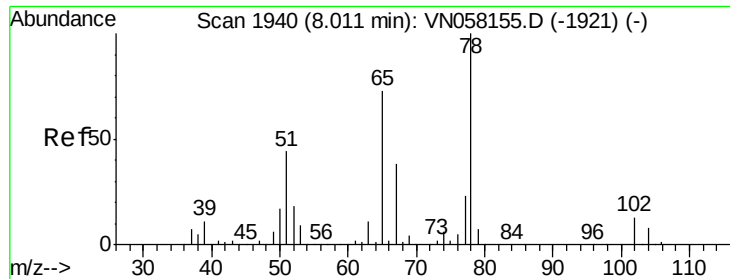
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#27  
cis-1,2-Dichloroethene  
Concen: 0.450 ug/l m  
RT: 6.81 min Scan# 1566  
Delta R.T. -0.00 min  
Lab File: VN058254.D  
Acq: 20 Sep 2019 16:42

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 96      | 100   |       |       |
| 61      | 155.8 | 0.0   | 319.0 |
| 98      | 54.6  | 0.0   | 126.6 |





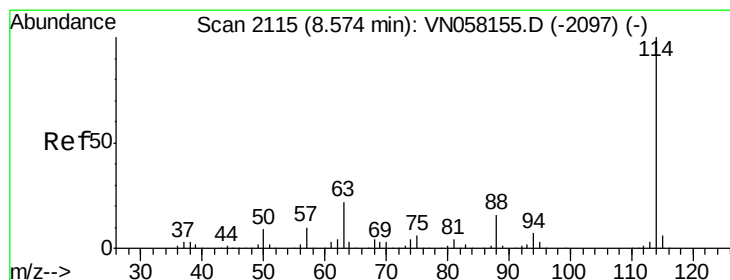
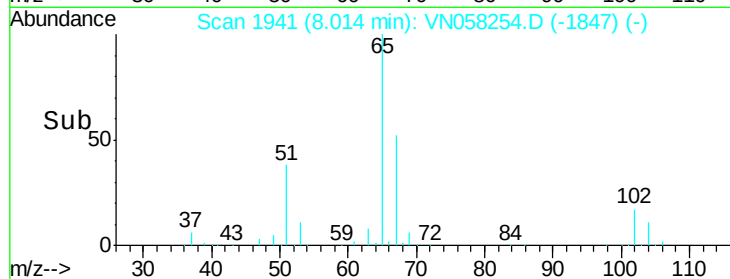
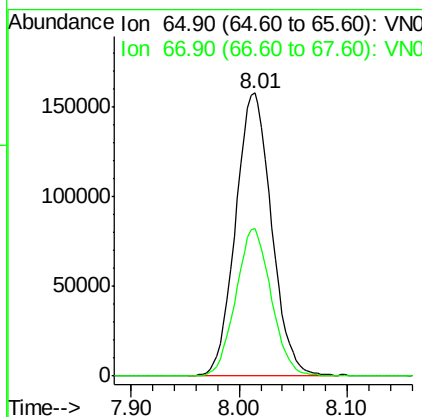
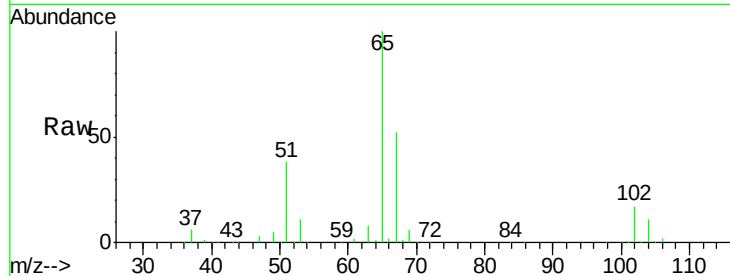
#33  
 1,2-Dichloroethane-d4  
 Concen: 52.556 ug/l  
 RT: 8.01 min Scan# 1941  
 Delta R.T. 0.00 min  
 Lab File: VN058254.D  
 Acq: 20 Sep 2019 16:42

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 TT101D1-20190917DL

| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 65      | 100   | 366949 |       |       |
| 67      | 51.2  | 0.0    | 103.4 |       |

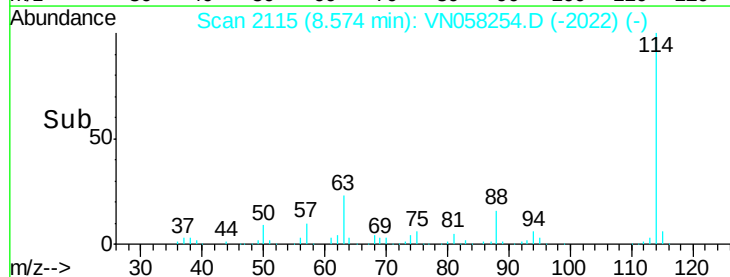
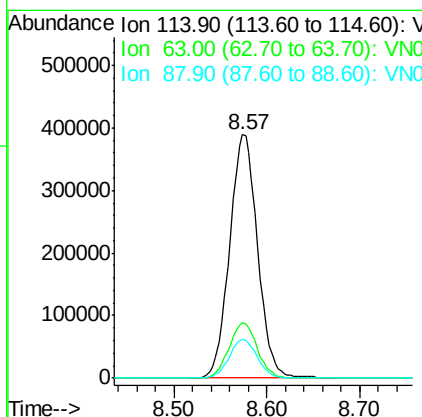
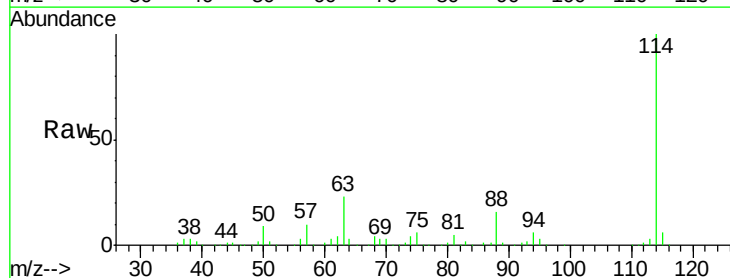
Manual Integrations  
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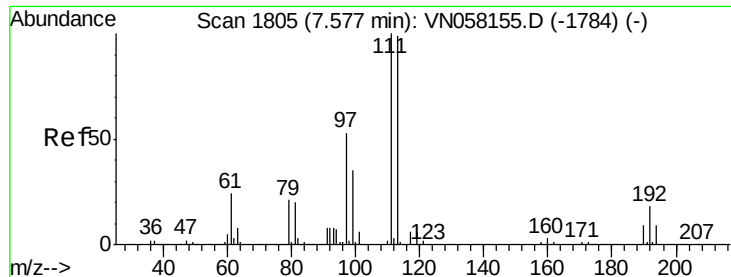
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#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.57 min Scan# 2115  
 Delta R.T. -0.00 min  
 Lab File: VN058254.D  
 Acq: 20 Sep 2019 16:42

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 114     | 100   | 812666 |       |       |
| 63      | 22.6  | 0.0    | 44.2  |       |
| 88      | 16.1  | 0.0    | 31.6  |       |





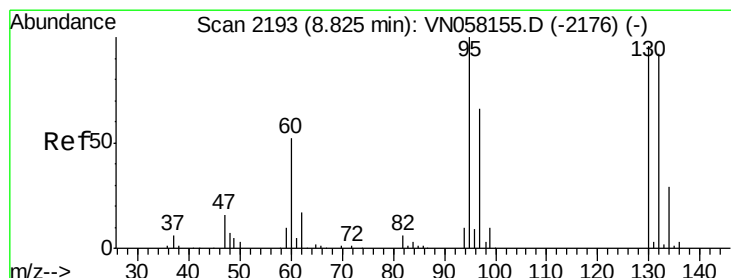
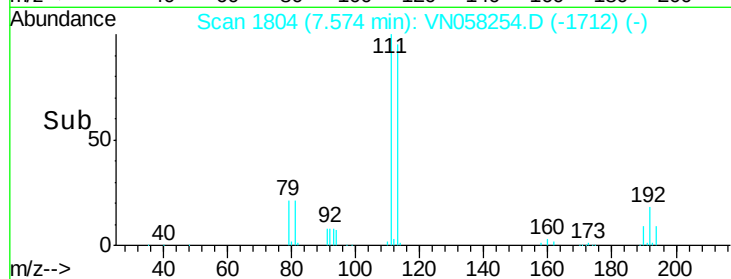
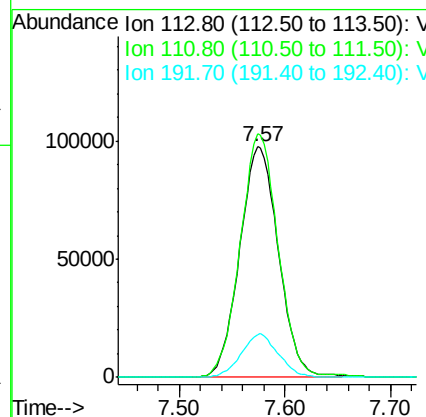
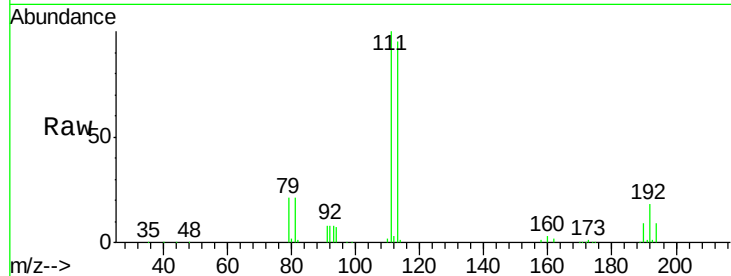
#35  
Dibromofluoromethane  
Concen: 50.430 ug/l  
RT: 7.57 min Scan# 1804  
Delta R.T. -0.00 min  
Lab File: VN058254.D  
Acq: 20 Sep 2019 16:42

Instrument :  
MSVOA\_N  
ClientSampleId :  
TT101D1-20190917DL

| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 113     | 100   | 249141 |       |       |
| 111     | 104.0 |        | 81.8  | 122.6 |
| 192     | 18.2  |        | 14.5  | 21.7  |

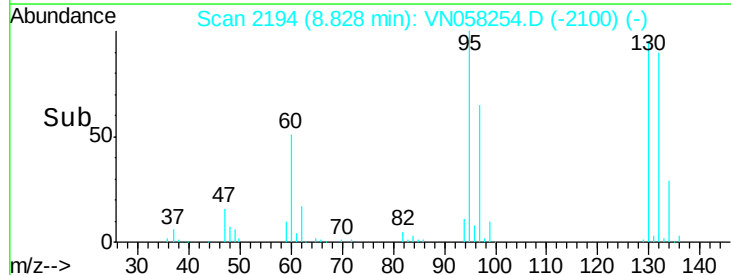
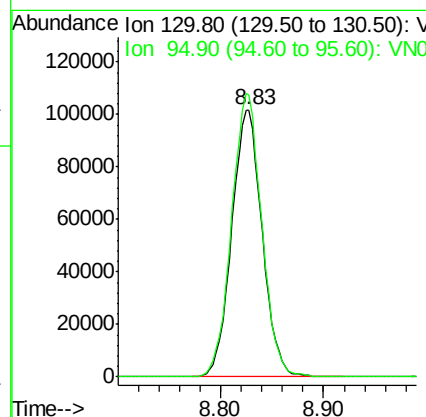
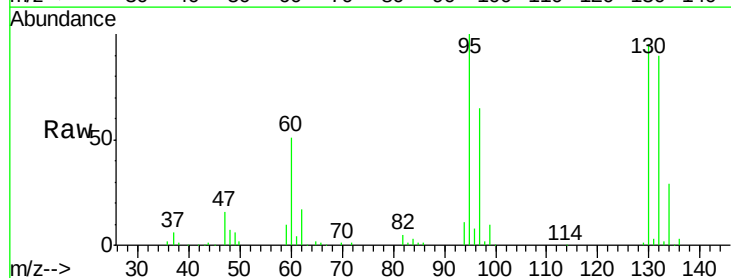
Manual Integrations  
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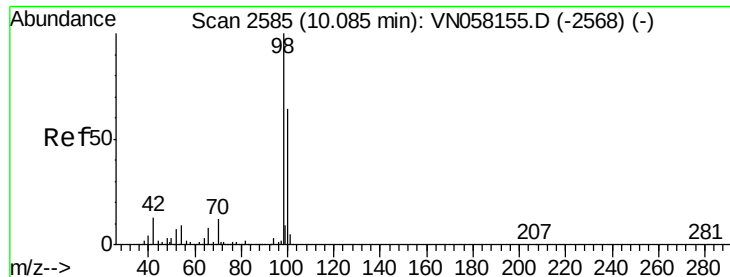
MMDadoda  
9/23/2019 3:30:33 PM



#44  
Trichloroethene  
Concen: 47.638 ug/l  
RT: 8.83 min Scan# 2194  
Delta R.T. 0.00 min  
Lab File: VN058254.D  
Acq: 20 Sep 2019 16:42

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 130     | 100   | 208671 |       |       |
| 95      | 105.5 |        | 0.0   | 207.8 |





#50

Toluene-d8

Concen: 53.290 ug/l

RT: 10.08 min Scan# 2585

Delta R.T. -0.00 min

Lab File: VN058254.D

Acq: 20 Sep 2019 16:42

Instrument :

MSVOA\_N

ClientSampleId :

TT101D1-20190917DL

Tot Ion: 98 Resp: 1025762

Ion Ratio Lower Upper

98 100

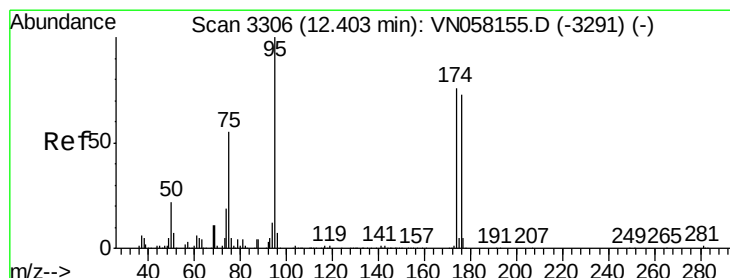
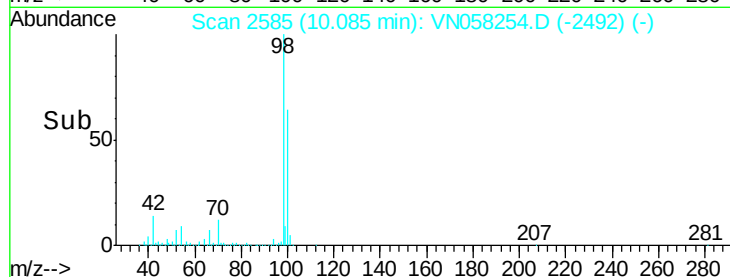
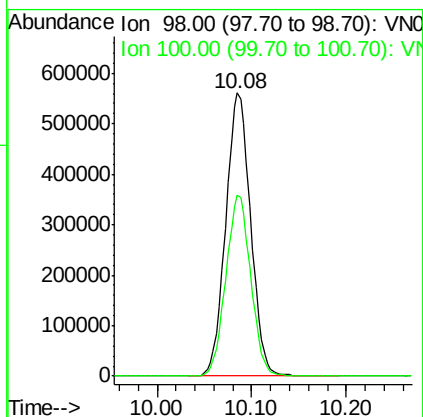
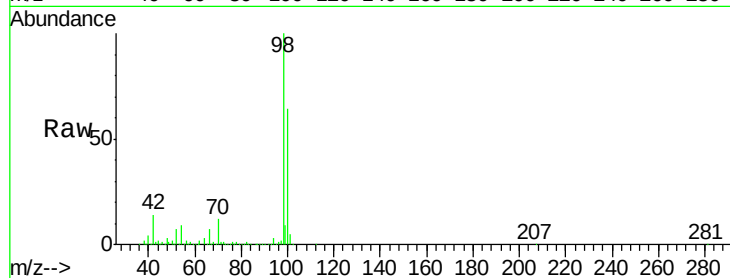
100 64.0 51.1 76.7

Manual Integrations

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#62

4-Bromofluorobenzene

Concen: 46.143 ug/l

RT: 12.41 min Scan# 3307

Delta R.T. 0.00 min

Lab File: VN058254.D

Acq: 20 Sep 2019 16:42

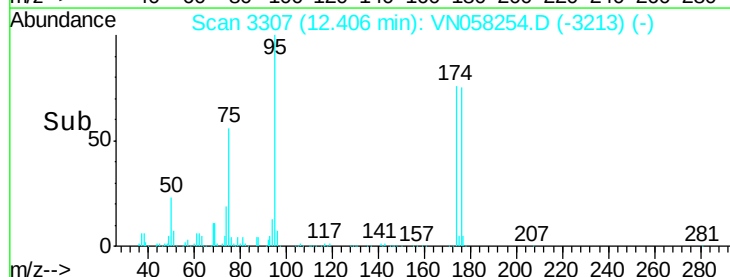
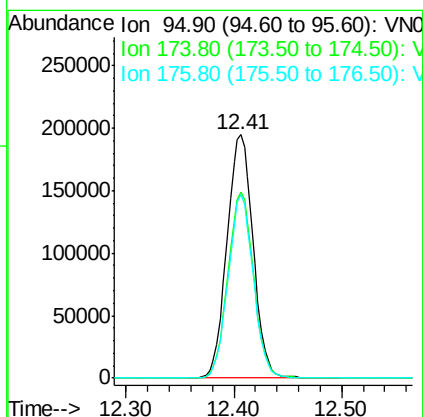
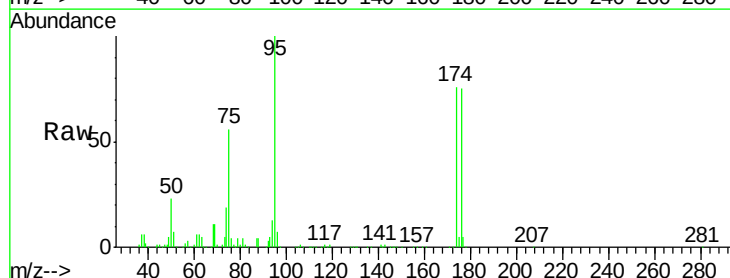
Tgt Ion: 95 Resp: 329925

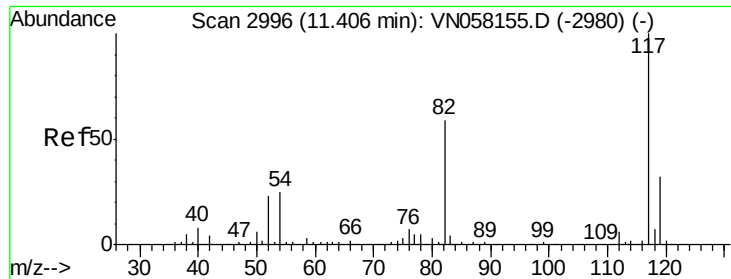
Ion Ratio Lower Upper

95 100

174 75.1 0.0 152.2

176 72.2 0.0 148.0





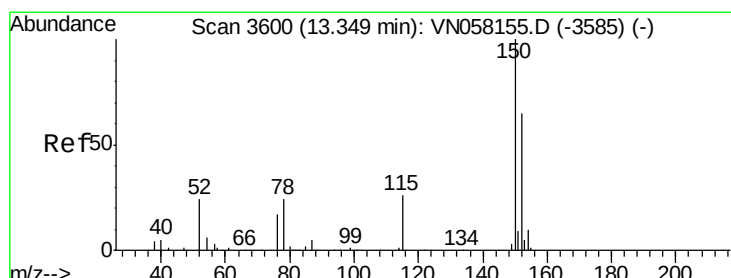
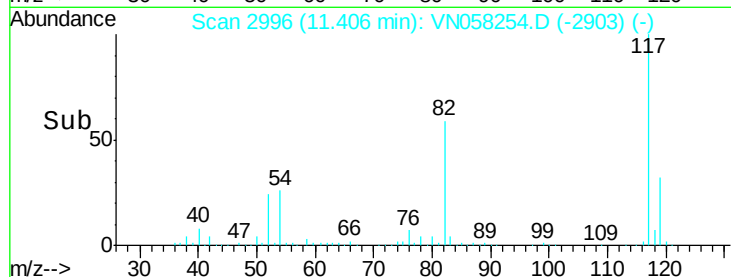
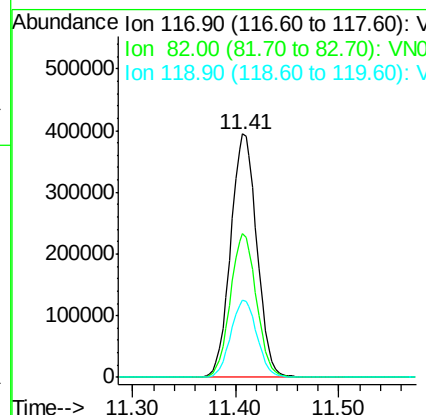
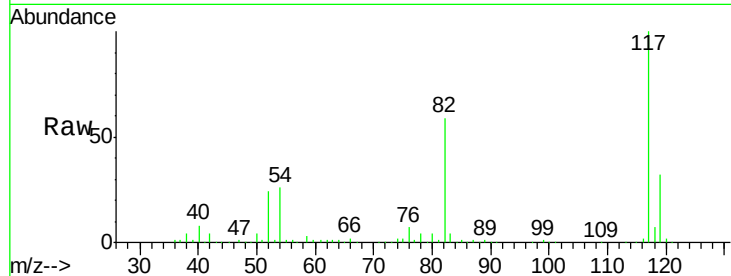
#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.41 min Scan# 2996  
Delta R.T. -0.00 min  
Lab File: VN058254.D  
Acq: 20 Sep 2019 16:42

Instrument :  
MSVOA\_N  
ClientSampleId :  
TT101D1-20190917DL

| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 117     | 100   | 698461 |       |       |
| 82      | 58.9  | 46.9   | 70.3  |       |
| 119     | 31.5  | 25.3   | 37.9  |       |

Manual Integrations  
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#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.35 min Scan# 3600  
Delta R.T. -0.00 min  
Lab File: VN058254.D  
Acq: 20 Sep 2019 16:42

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 152     | 100   | 288183 |       |       |
| 115     | 61.1  | 30.1   | 90.3  |       |
| 150     | 156.6 | 0.0    | 346.4 |       |

