

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN021519\  
 Data File : VN053803.D  
 Acq On : 15 Feb 2019 16:38  
 Operator : JC/SP  
 Sample : K1346-08  
 Misc : 5.00mL/MSVOA N/WATER  
 ALS Vial : 15 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 CL-01-021419-A

Manual Integrations  
 APPROVED

MMDadoda  
 2/18/2019 9:48:17 AM

Quant Time: Feb 16 00:05:17 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N013019W.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Feb 01 09:11:52 2019  
 Response via : Initial Calibration

| Internal Standards          | R.T.  | QIon | Response | Conc   | Units   | Dev(Min) |
|-----------------------------|-------|------|----------|--------|---------|----------|
| 1) Pentafluorobenzene       | 7.67  | 168  | 673540   | 50.00  | ug/l    | 0.00     |
| 34) 1,4-Difluorobenzene     | 8.59  | 114  | 1138455  | 50.00  | ug/l    | 0.00     |
| 63) Chlorobenzene-d5        | 11.41 | 117  | 1050281  | 50.00  | ug/l    | 0.00     |
| 72) 1,4-Dichlorobenzene-d4  | 13.34 | 152  | 436644   | 50.00  | ug/l    | 0.00     |
| System Monitoring Compounds |       |      |          |        |         |          |
| 33) 1,2-Dichloroethane-d4   | 8.03  | 65   | 359972   | 53.27  | ug/l    | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =      | 106.54% |          |
| 35) Dibromofluoromethane    | 7.59  | 113  | 363118   | 50.48  | ug/l    | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =      | 100.96% |          |
| 50) Toluene-d8              | 10.09 | 98   | 1382469  | 51.18  | ug/l    | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =      | 102.36% |          |
| 62) 4-Bromofluorobenzene    | 12.40 | 95   | 456064   | 50.63  | ug/l    | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =      | 101.26% |          |
| Target Compounds            |       |      |          |        |         |          |
| 16) Acetone                 | 3.82  | 43   | 13667    | 7.886  | ug/l    | 90       |
| 20) Methylene Chloride      | 4.56  | 84   | 486717   | 66.937 | ug/l    | 97       |
| 52) Toluene                 | 10.15 | 92   | 6682     | 0.356  | ug/l    | 95       |
| 67) Ethyl Benzene           | 11.51 | 91   | 222970   | 6.084  | ug/l    | 98       |
| 68) m/p-Xylenes             | 11.62 | 106  | 448229   | 32.047 | ug/l    | 99       |
| 69) o-Xylene                | 11.95 | 106  | 198166   | 14.665 | ug/l    | 99       |
| 73) Isopropylbenzene        | 12.25 | 105  | 11984    | 0.390  | ug/l    | 100      |
| 78) n-propylbenzene         | 12.59 | 91   | 80330    | 2.264  | ug/l    | 99       |
| 80) 1,3,5-Trimethylbenzene  | 12.73 | 105  | 322218   | 12.659 | ug/l    | 100      |
| 84) 1,2,4-Trimethylbenzene  | 13.04 | 105  | 1676768  | 64.658 | ug/l    | 100      |
| 86) p-Isopropyltoluene      | 13.29 | 119  | 11115m   | 0.415  | ug/l    |          |
| 89) n-Butylbenzene          | 13.61 | 91   | 7731m    | 0.334  | ug/l    |          |
| 95) Naphthalene             | 15.13 | 128  | 46377    | 4.070  | ug/l    | 99       |

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

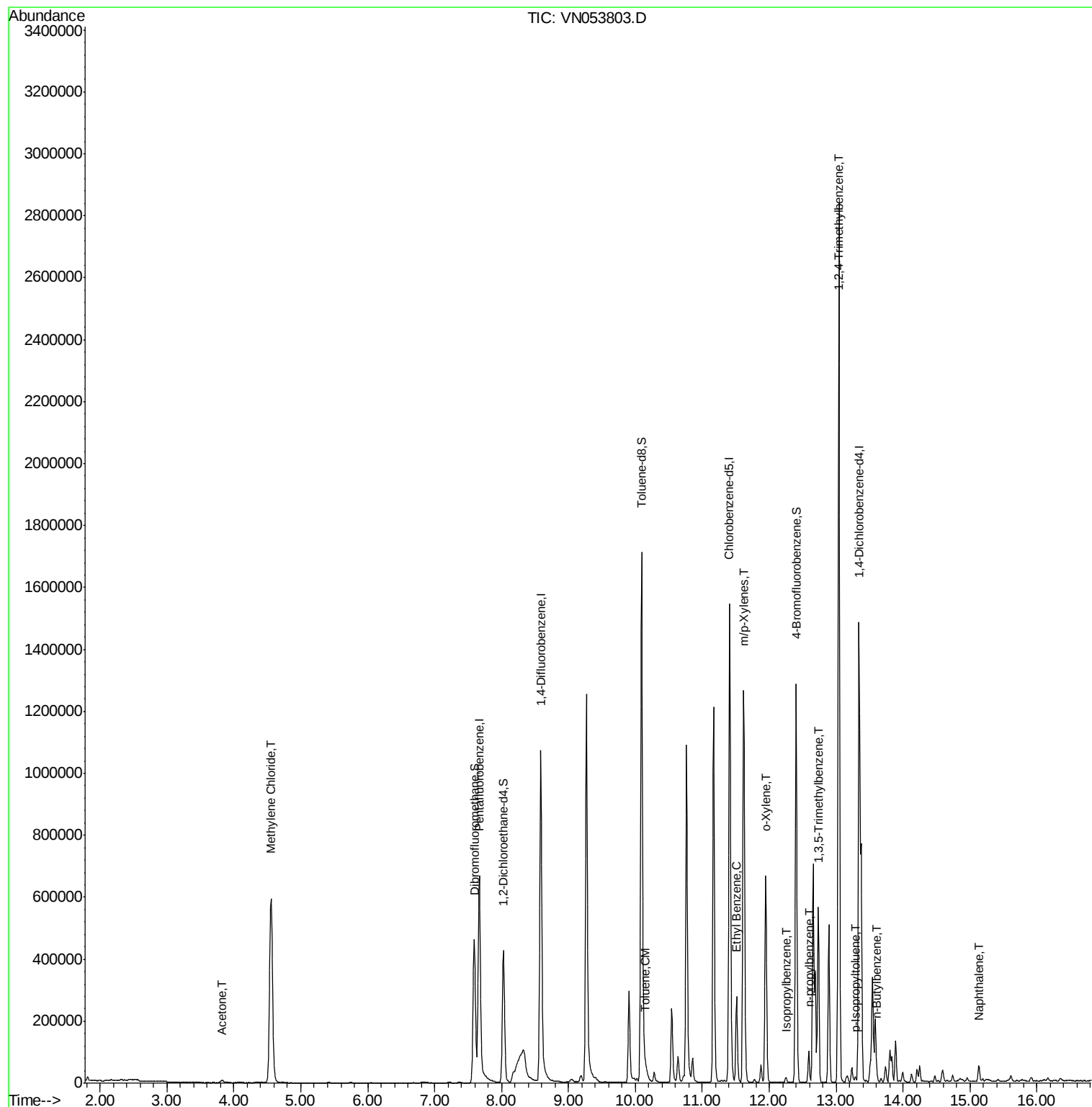
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA N\DATA\VN021519\  
Data File : VN053803.D  
Acq On : 15 Feb 2019 16:38  
Operator : JC/SP  
Sample : K1346-08  
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ALS Vial : 15 Sample Multiplier: 1

Instrument :  
MSVOA\_N  
ClientSampleId :  
CL-01-021419-A

Manual Integrations  
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2/18/2019 9:48:17 AM

Quant Time: Feb 16 00:05:17 2019  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_N\METHODS\82N013019W.M  
Quant Title : SW846 8260  
QLast Update : Fri Feb 01 09:11:52 2019  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. 0.00 min

Lab File: VN053803.D

Acq: 15 Feb 2019 16:38

Instrument :

MSVOA\_N

ClientSampleId :

CL-01-021419-A

Tot Ion:168 Resp: 673540

Ion Ratio Lower Upper

168 100

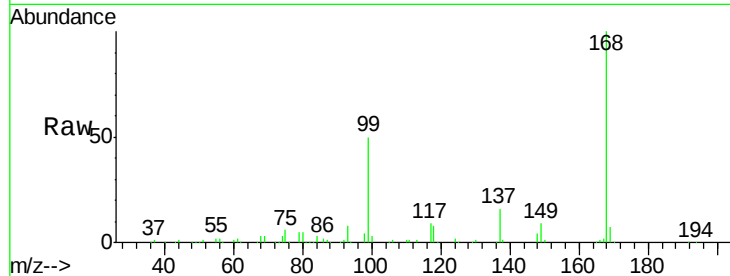
99 49.7 39.1 58.7

Manual Integrations

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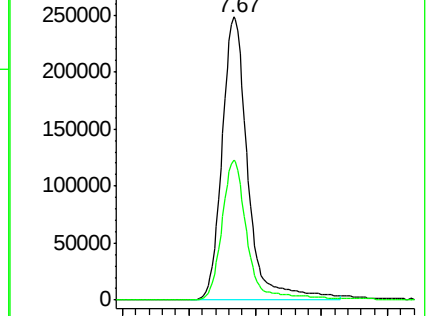
MMDadoda

2/18/2019 9:48:17 AM

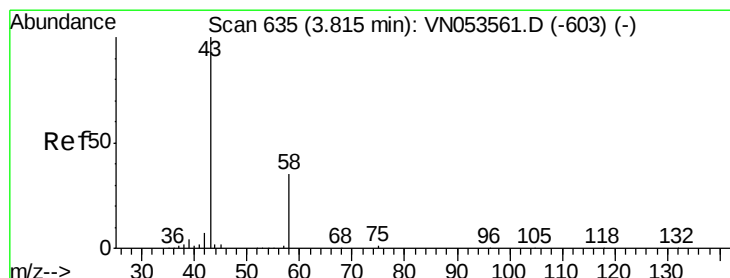
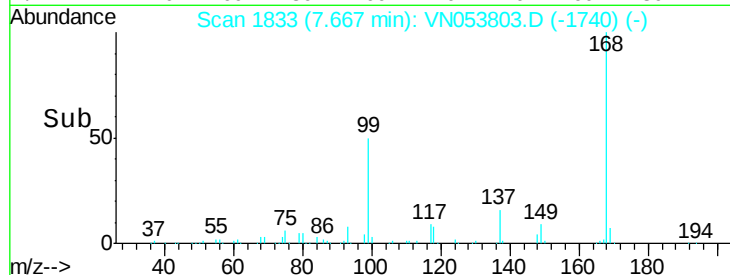


Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN



Time-->



#16

Acetone

Concen: 7.886 ug/l

RT: 3.82 min Scan# 637

Delta R.T. 0.01 min

Lab File: VN053803.D

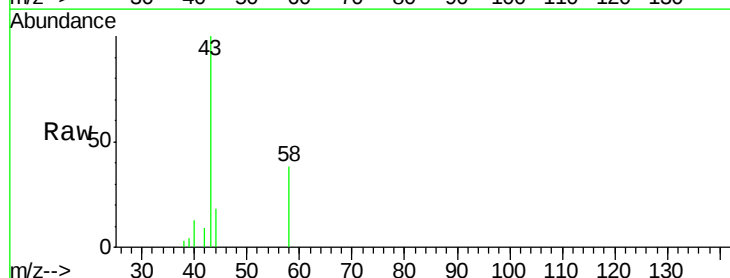
Acq: 15 Feb 2019 16:38

Tgt Ion: 43 Resp: 13667

Ion Ratio Lower Upper

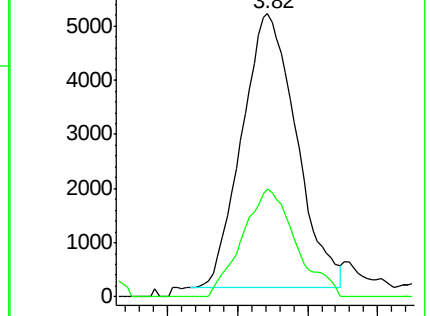
43 100

58 39.6 27.1 40.7

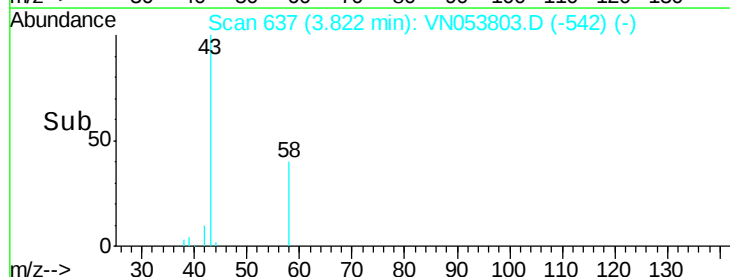


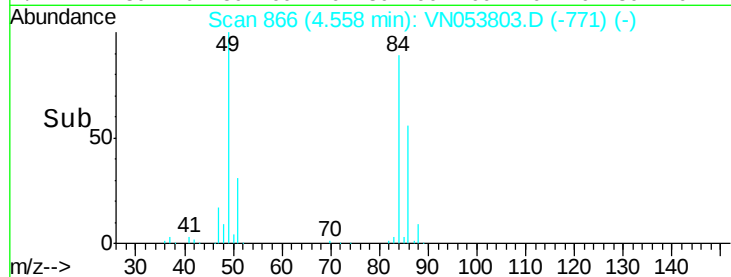
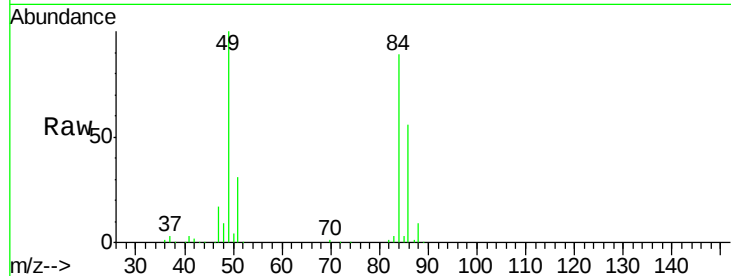
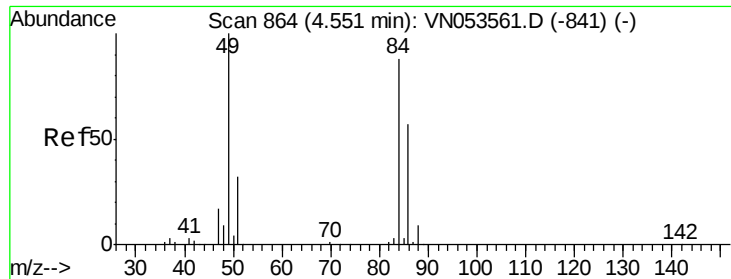
Abundance Ion 43.00 (42.70 to 43.70): VN

Ion 58.00 (57.70 to 58.70): VN



Time-->





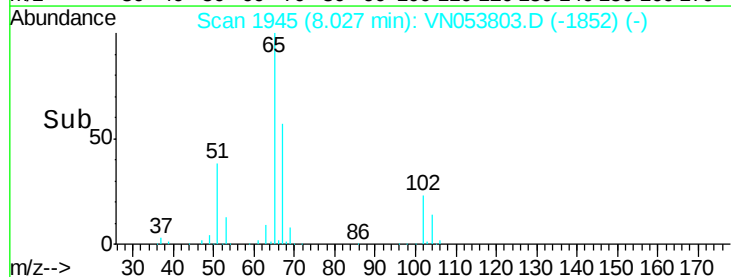
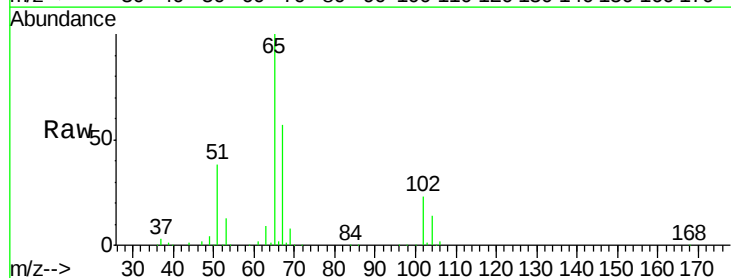
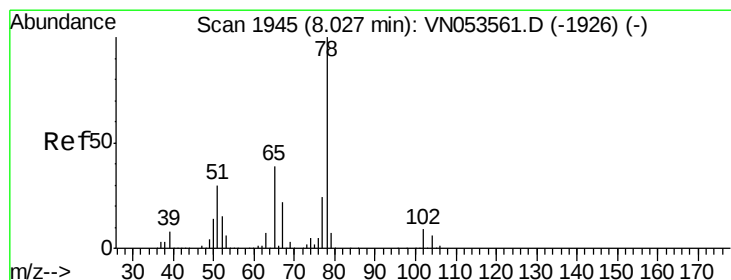
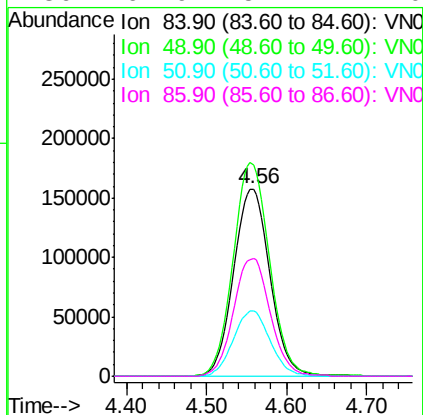
#20  
Methvlene Chloride  
Concen: 66.937 ug/l  
RT: 4.56 min Scan# 866  
Delta R.T. 0.01 min  
Lab File: VN053803.D  
Acq: 15 Feb 2019 16:38

| Tot Ion | Ion   | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|-------|
| 84      | 100   |       |       |       |       |
| 49      | 113.0 | 94.3  | 141.5 |       |       |
| 51      | 35.0  | 29.4  | 44.2  |       |       |
| 86      | 62.9  | 51.4  | 77.0  |       |       |

Instrument :  
MSVOA\_N  
ClientSampleId :  
CL-01-021419-A

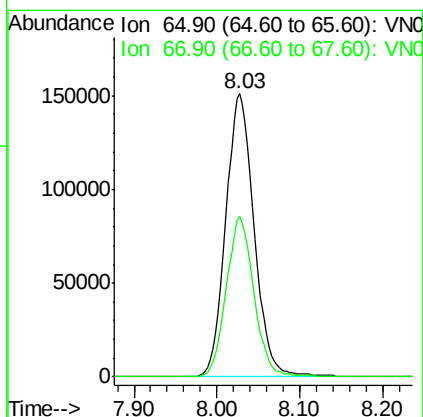
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#33  
1,2-Dichloroethane-d4  
Concen: 53.275 ug/l  
RT: 8.03 min Scan# 1945  
Delta R.T. 0.00 min  
Lab File: VN053803.D  
Acq: 15 Feb 2019 16:38

| Tgt Ion | Ion  | Ratio | Resp  | Lower | Upper |
|---------|------|-------|-------|-------|-------|
| 65      | 100  |       |       |       |       |
| 67      | 55.0 | 0.0   | 111.2 |       |       |





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.59 min Scan# 2119

Delta R.T. 0.00 min

Lab File: VN053803.D

Acq: 15 Feb 2019 16:38

Instrument :

MSVOA\_N

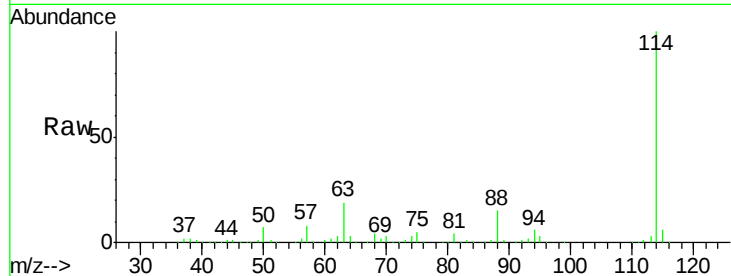
ClientSampleId :

CL-01-021419-A

|           |       |       |         |
|-----------|-------|-------|---------|
| Tot Ion:  | 114   | Resp: | 1138455 |
| Ion Ratio | Lower | Upper |         |
| 114       | 100   |       |         |
| 63        | 18.9  | 0.0   | 38.6    |
| 88        | 15.2  | 0.0   | 30.4    |

Manual Integrations  
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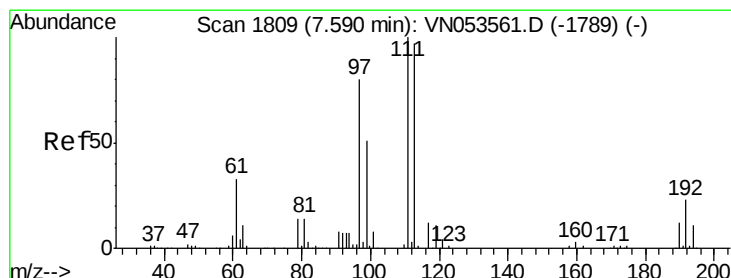
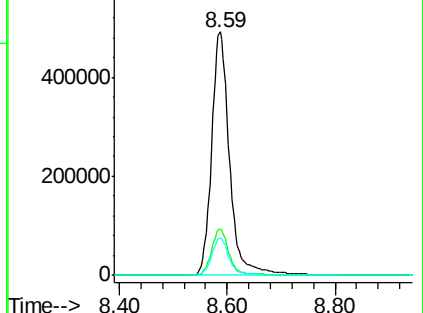
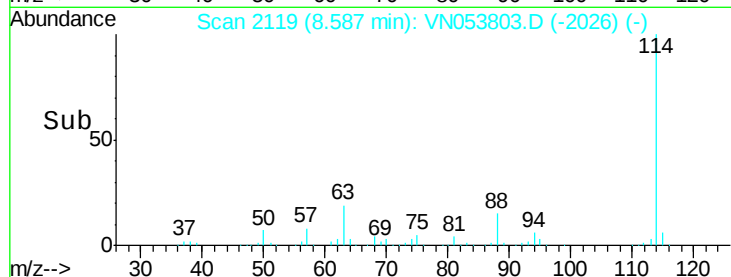
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Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VN053561.D (-2100) (-)

Ion 87.90 (87.60 to 88.60): VN053561.D (-2100) (-)



#35

Dibromofluoromethane

Concen: 50.478 ug/l

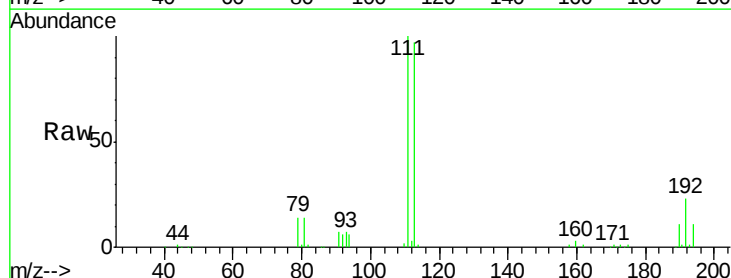
RT: 7.59 min Scan# 1810

Delta R.T. 0.00 min

Lab File: VN053803.D

Acq: 15 Feb 2019 16:38

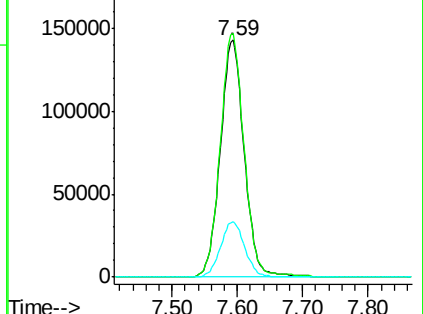
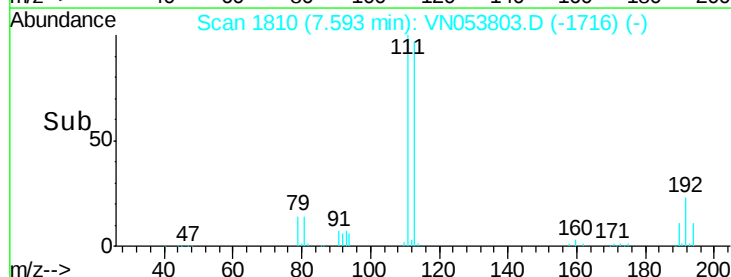
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 113   | Resp: | 363118 |
| Ion Ratio | Lower | Upper |        |
| 113       | 100   |       |        |
| 111       | 102.4 | 81.1  | 121.7  |
| 192       | 23.5  | 18.2  | 27.2   |

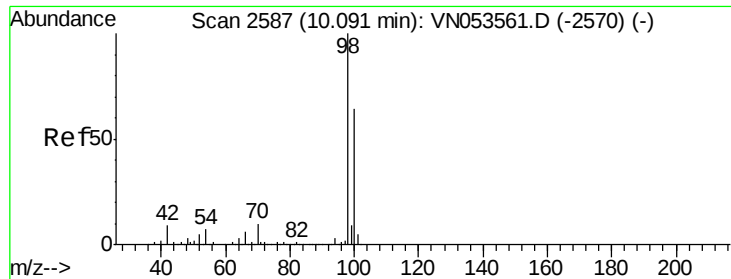


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): VN053561.D (-1789) (-)

Ion 191.70 (191.40 to 192.40): VN053561.D (-1789) (-)





#50

Toluene-d8

Concen: 51.183 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN053803.D

Acq: 15 Feb 2019 16:38

Instrument :

MSVOA\_N

ClientSampleId :

CL-01-021419-A

Tot Ion: 98 Resp: 1382469

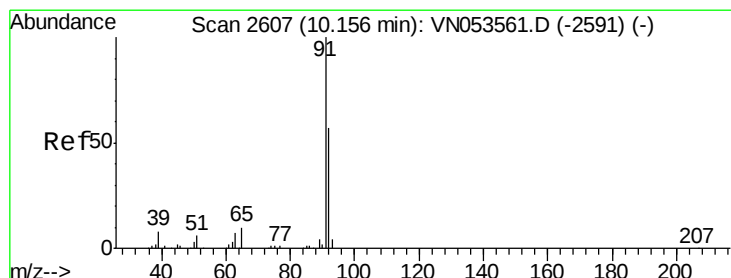
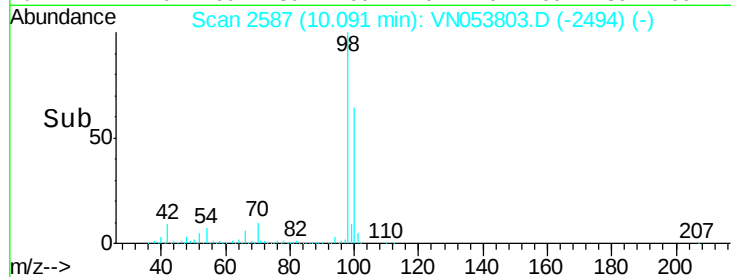
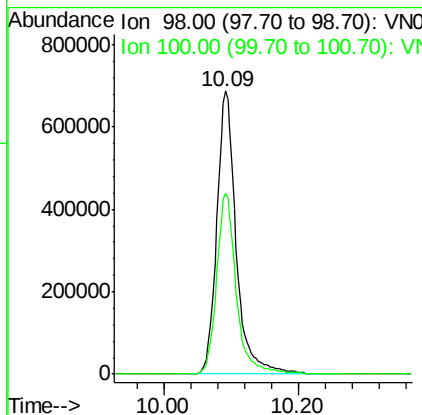
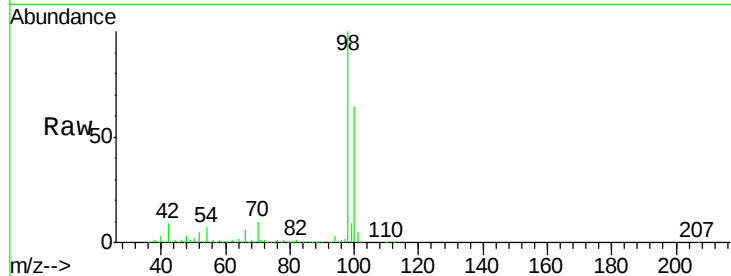
Ion Ratio Lower Upper

98 100

100 64.7 51.4 77.0

Manual Integrations  
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#52

Toluene

Concen: 0.356 ug/l

RT: 10.15 min Scan# 2606

Delta R.T. -0.00 min

Lab File: VN053803.D

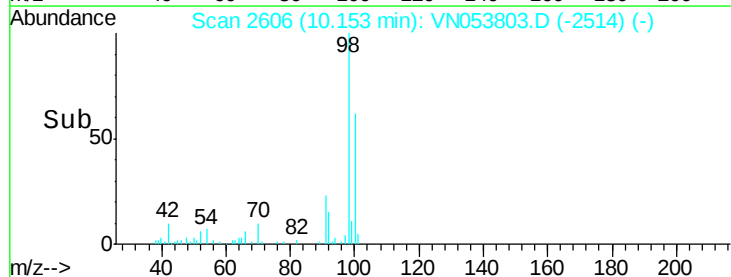
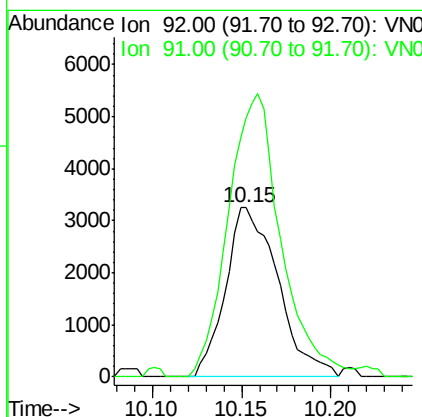
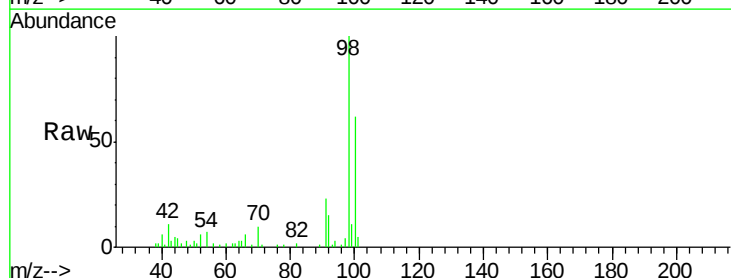
Acq: 15 Feb 2019 16:38

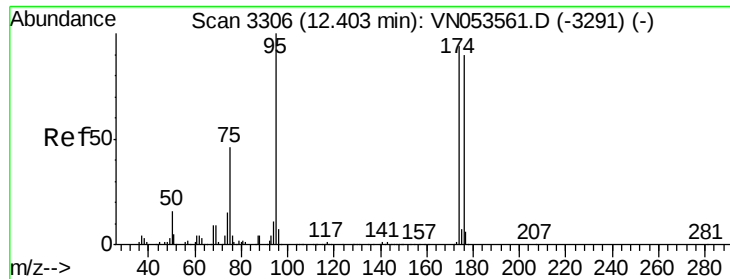
Tgt Ion: 92 Resp: 6682

Ion Ratio Lower Upper

92 100

91 168.3 139.9 209.9





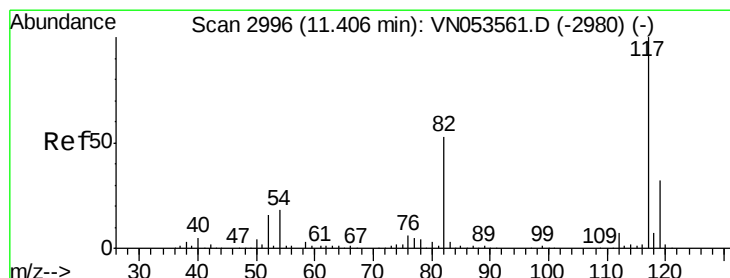
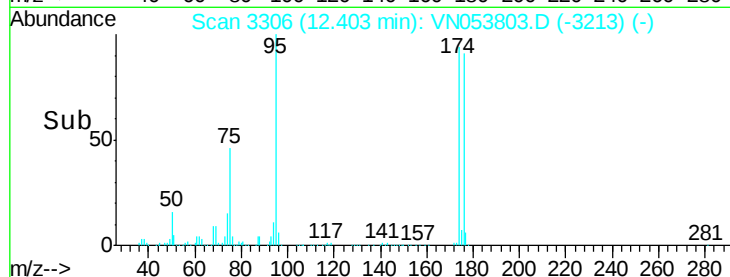
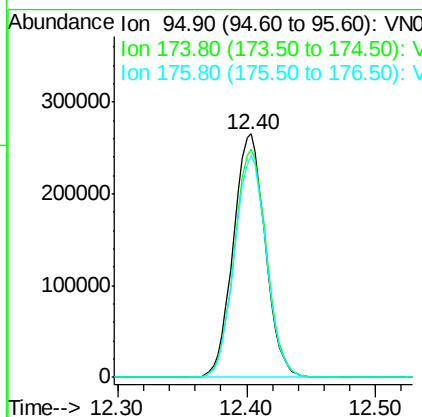
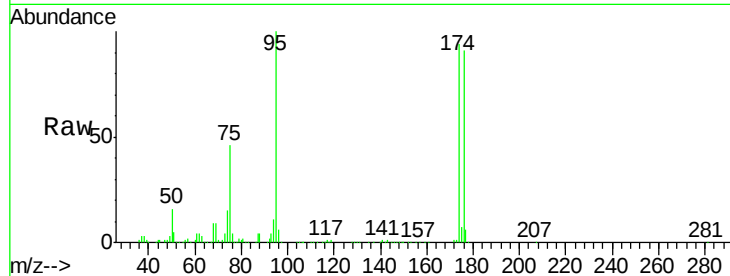
#62  
4-Bromofluorobenzene  
Concen: 50.626 ug/l  
RT: 12.40 min Scan# 3306  
Delta R.T. 0.00 min  
Lab File: VN053803.D  
Acq: 15 Feb 2019 16:38

Instrument :  
MSVOA\_N  
ClientSampleId :  
CL-01-021419-A

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 95      | 100   |       |       |
| 174     | 94.9  | 0.0   | 183.2 |
| 176     | 91.5  | 0.0   | 177.4 |

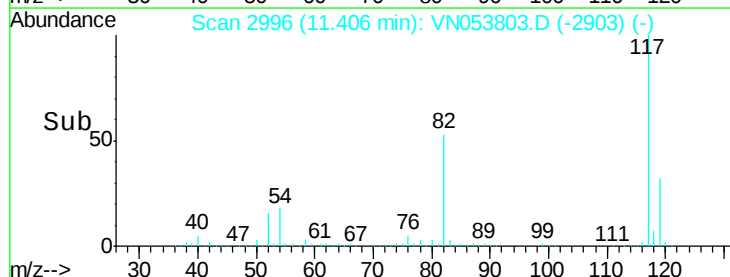
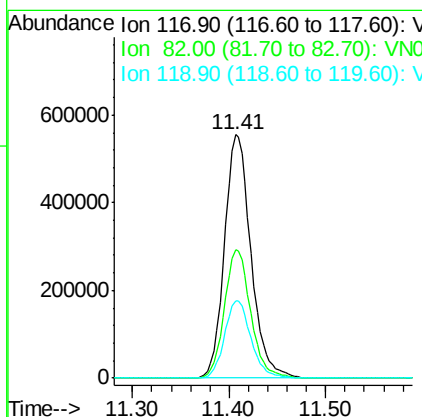
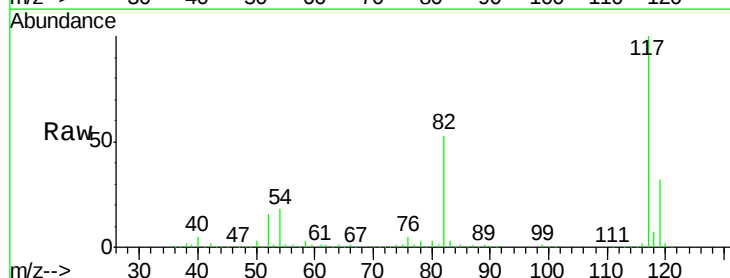
Manual Integrations  
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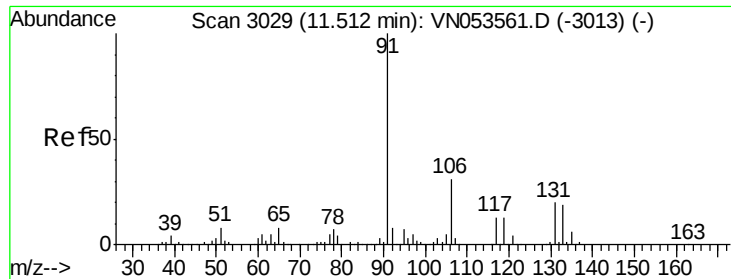
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#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.41 min Scan# 2996  
Delta R.T. 0.00 min  
Lab File: VN053803.D  
Acq: 15 Feb 2019 16:38

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 117     | 100   |       |       |
| 82      | 52.6  | 42.9  | 64.3  |
| 119     | 31.6  | 26.0  | 39.0  |





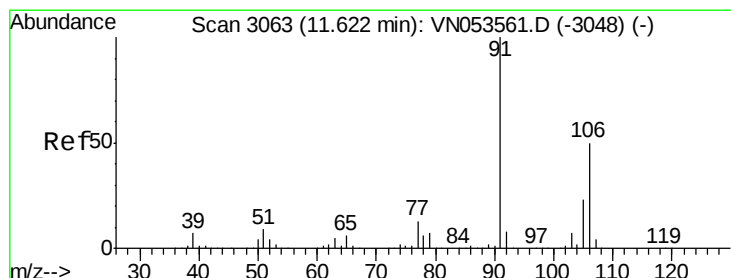
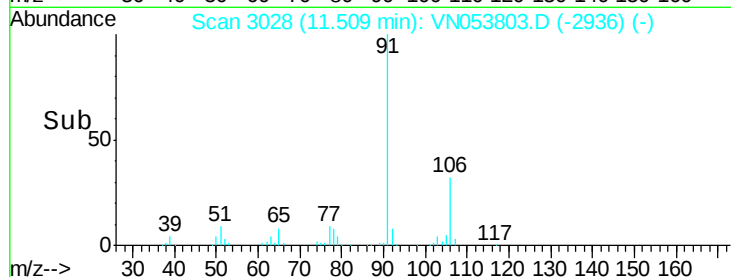
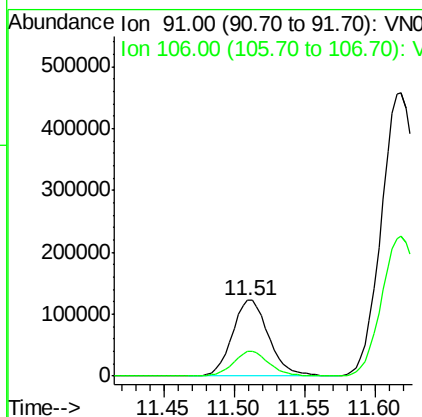
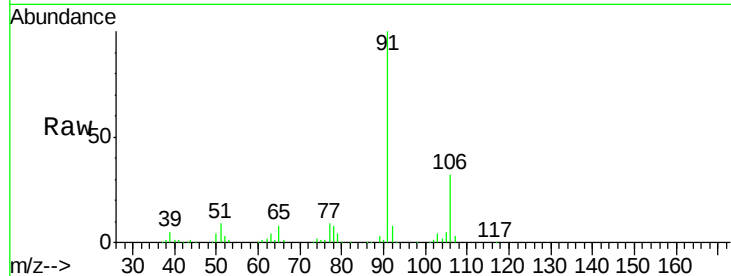
#67  
Ethyl Benzene  
Concen: 6.084 ug/l  
RT: 11.51 min Scan# 3028  
Delta R.T. -0.00 min  
Lab File: VN053803.D  
Acq: 15 Feb 2019 16:38

Instrument :  
MSVOA\_N  
ClientSampleId :  
CL-01-021419-A

Tot Ion: 91 Resp: 222970  
Ion Ratio Lower Upper  
91 100  
106 32.4 25.0 37.6

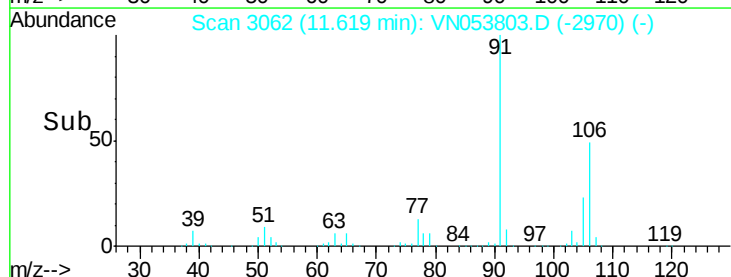
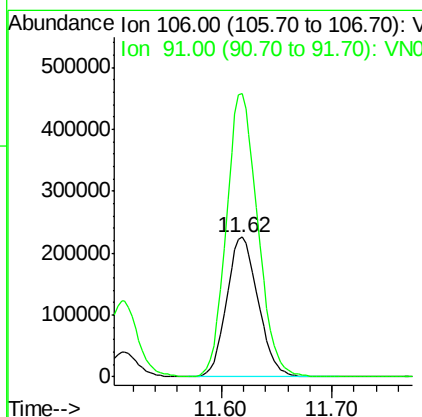
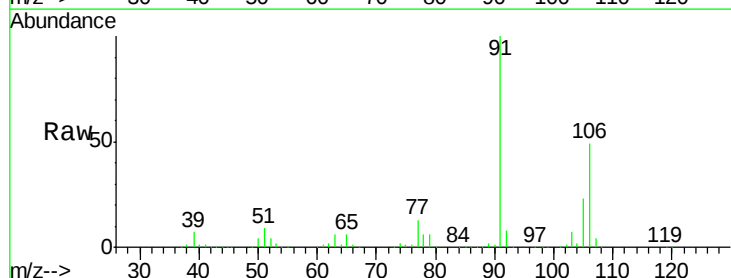
Manual Integrations  
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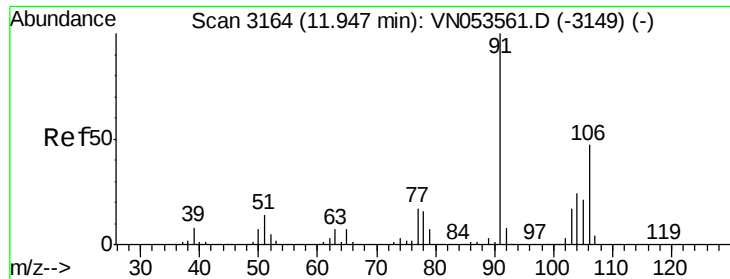
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#68  
m/p-Xylenes  
Concen: 32.047 ug/l  
RT: 11.62 min Scan# 3062  
Delta R.T. -0.00 min  
Lab File: VN053803.D  
Acq: 15 Feb 2019 16:38

Tgt Ion: 106 Resp: 448229  
Ion Ratio Lower Upper  
106 100  
91 201.0 161.4 242.2





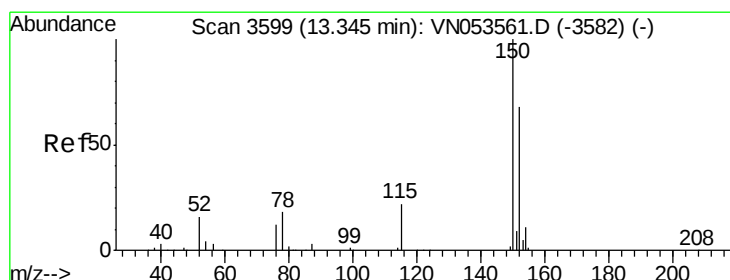
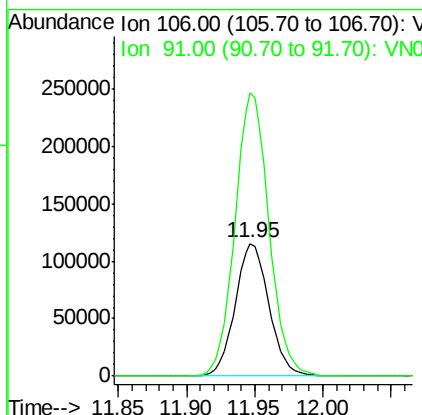
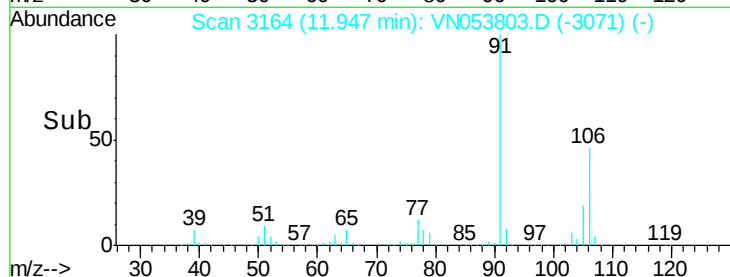
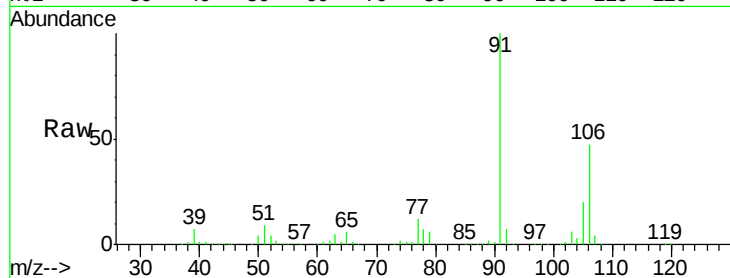
#69  
o-Xylene  
Concen: 14.665 ug/l  
RT: 11.95 min Scan# 3164  
Delta R.T. 0.00 min  
Lab File: VN053803.D  
Acq: 15 Feb 2019 16:38

Instrument :  
MSVOA\_N  
ClientSampleId :  
CL-01-021419-A

Tot Ion:106 Resp: 198166  
Ion Ratio Lower Upper  
106 100  
91 214.9 106.9 320.8

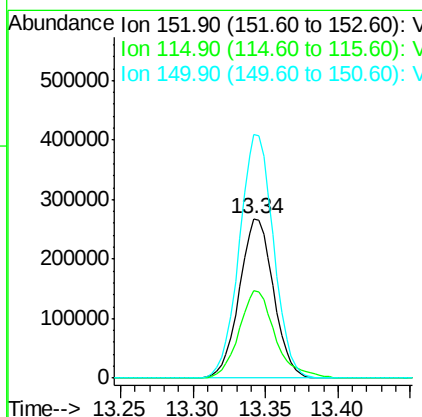
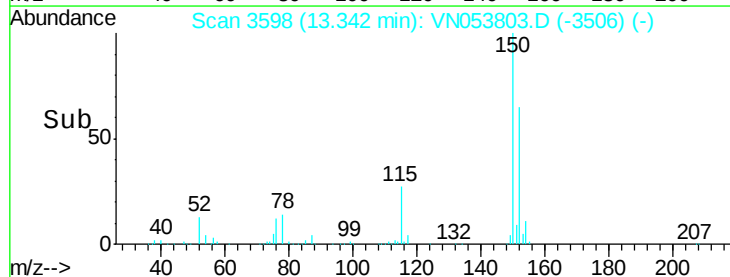
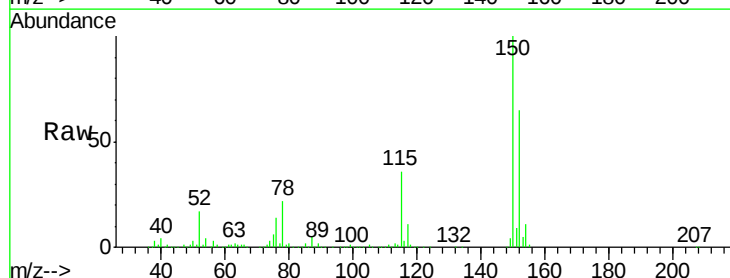
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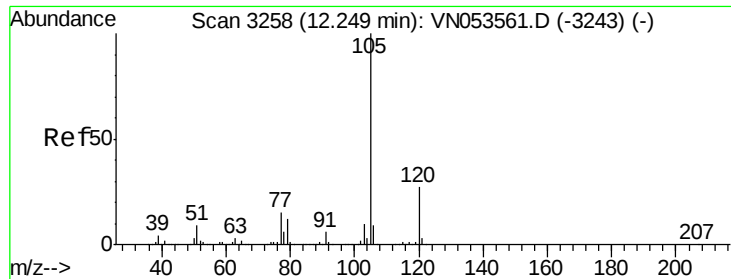
MMDadoda  
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#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.34 min Scan# 3598  
Delta R.T. -0.00 min  
Lab File: VN053803.D  
Acq: 15 Feb 2019 16:38

Tgt Ion:152 Resp: 436644  
Ion Ratio Lower Upper  
152 100  
115 58.4 27.8 83.4  
150 153.9 0.0 349.0





#73

Isopropylbenzene

Concen: 0.390 ug/l

RT: 12.25 min Scan# 3258

Delta R.T. 0.00 min

Lab File: VN053803.D

Acq: 15 Feb 2019 16:38

Instrument :

MSVOA\_N

ClientSampleId :

CL-01-021419-A

Tot Ion: 105 Resp: 11984

Ion Ratio Lower Upper

105 100

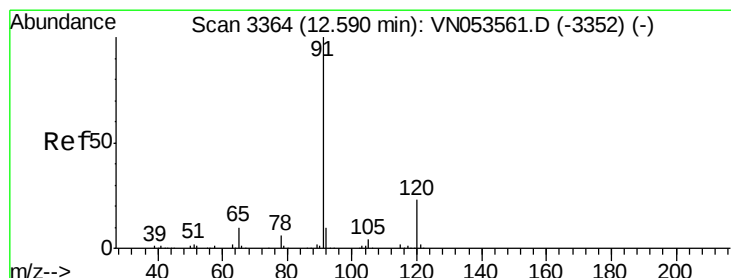
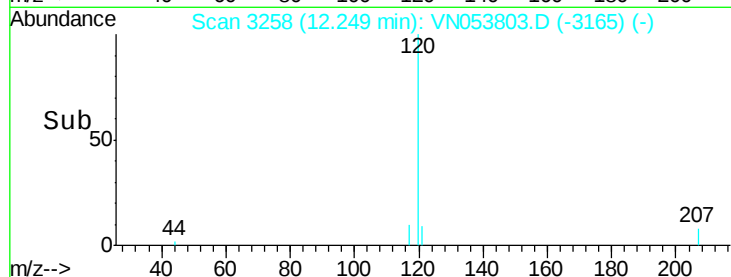
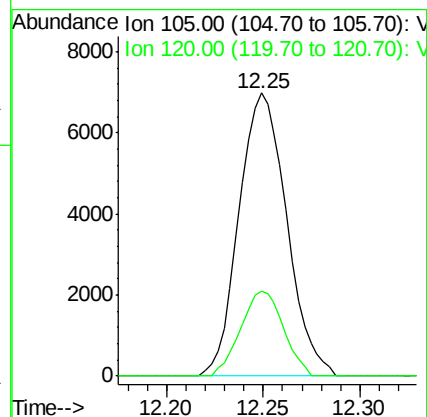
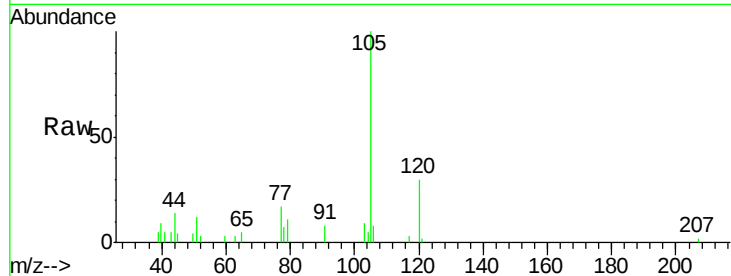
120 26.9 13.6 40.7

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#78

n-propylbenzene

Concen: 2.264 ug/l

RT: 12.59 min Scan# 3365

Delta R.T. 0.00 min

Lab File: VN053803.D

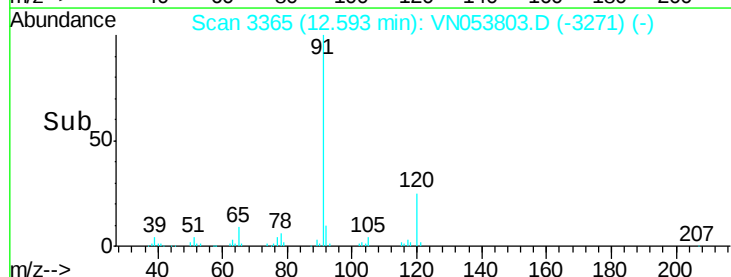
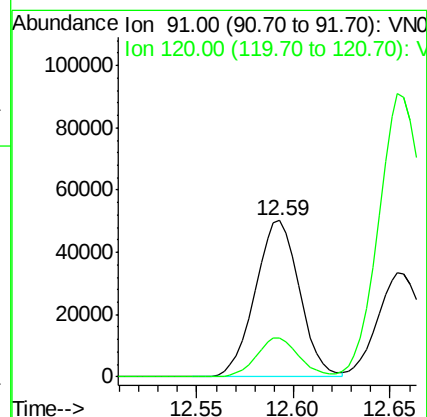
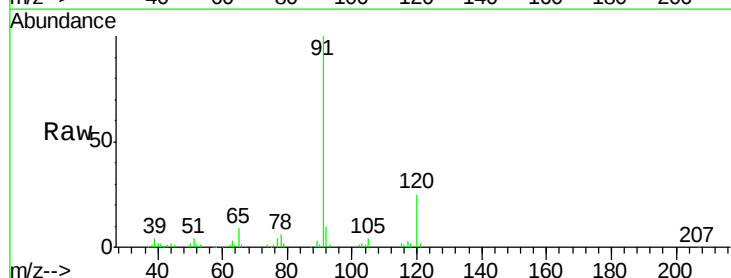
Acq: 15 Feb 2019 16:38

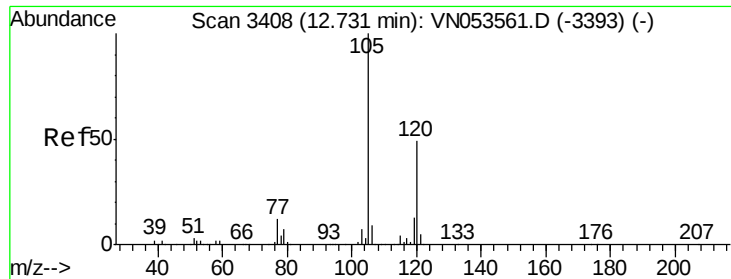
Tgt Ion: 91 Resp: 80330

Ion Ratio Lower Upper

91 100

120 24.3 11.9 35.5





#80

1,3,5-Trimethylbenzene

Concen: 12.659 ug/l

RT: 12.73 min Scan# 3408

Delta R.T. 0.00 min

Lab File: VN053803.D

Acq: 15 Feb 2019 16:38

Instrument :

MSVOA\_N

ClientSampleId :

CL-01-021419-A

Tot Ion:105 Resp: 322218

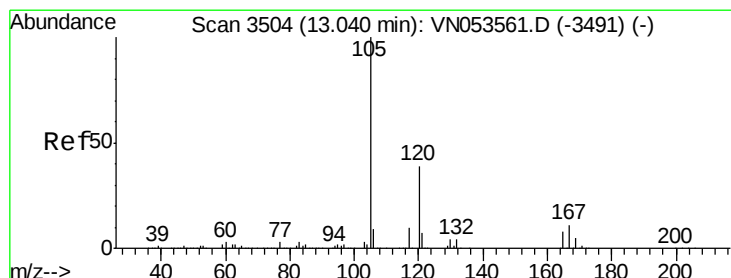
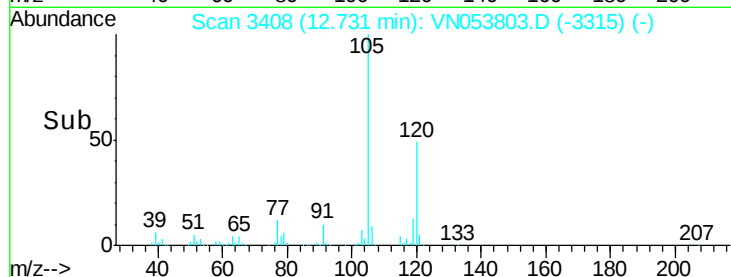
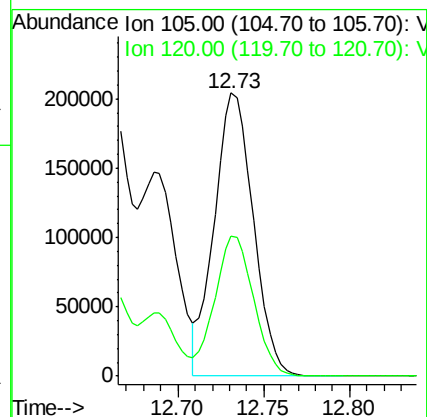
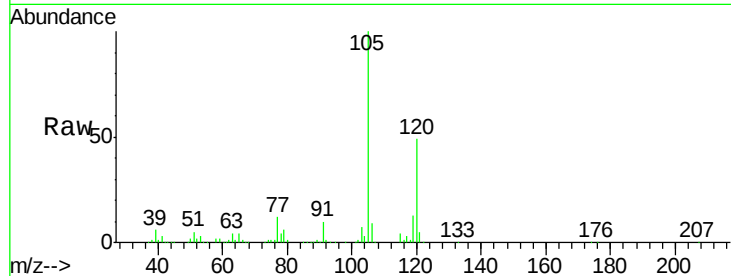
Ion Ratio Lower Upper

105 100

120 49.4 24.9 74.6

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#84

1,2,4-Trimethylbenzene

Concen: 64.658 ug/l

RT: 13.04 min Scan# 3504

Delta R.T. 0.00 min

Lab File: VN053803.D

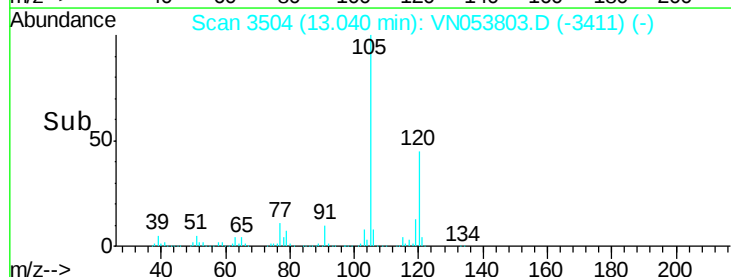
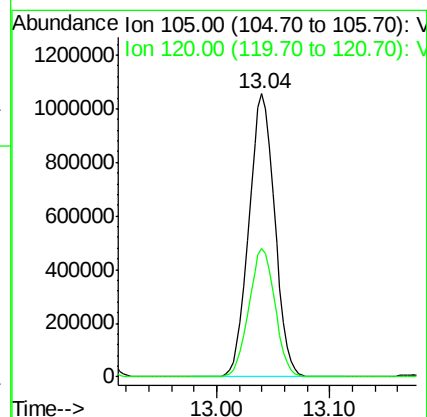
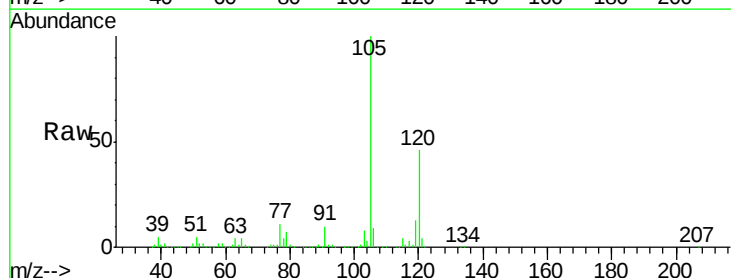
Acq: 15 Feb 2019 16:38

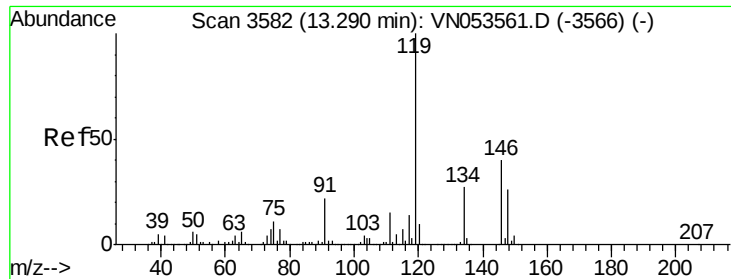
Tgt Ion:105 Resp: 1676768

Ion Ratio Lower Upper

105 100

120 45.8 23.0 69.0





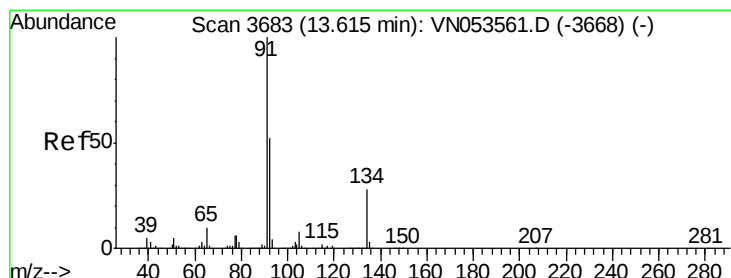
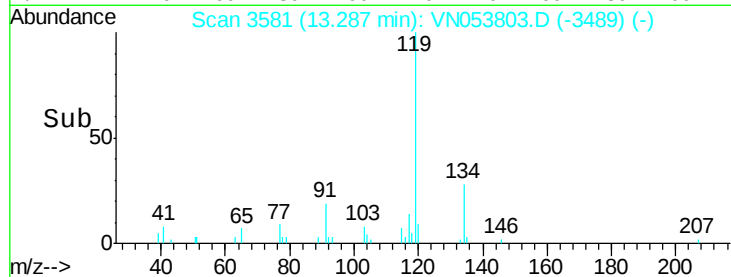
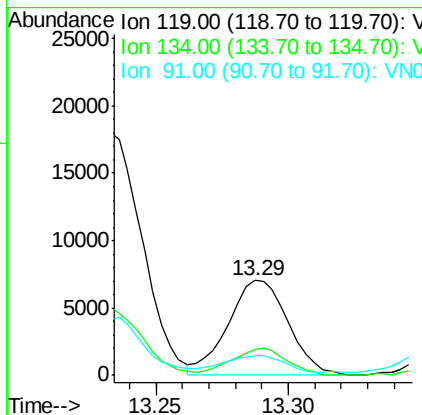
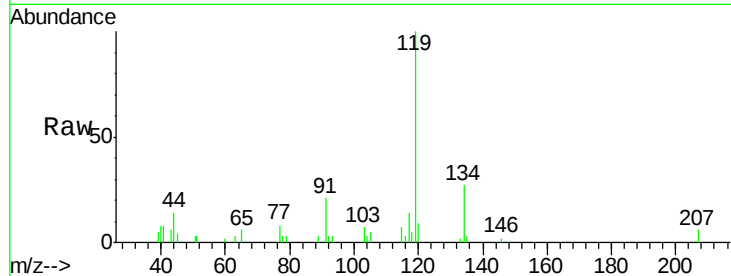
#86  
 p-Isopropyltoluene  
 Concen: 0.415 ug/l m  
 RT: 13.29 min Scan# 3581  
 Delta R.T. -0.00 min  
 Lab File: VN053803.D  
 Acq: 15 Feb 2019 16:38

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 CL-01-021419-A

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 119     | 100   |       |       |
| 134     | 71.8  | 13.5  | 40.4# |
| 91      | 58.4  | 11.0  | 33.0# |

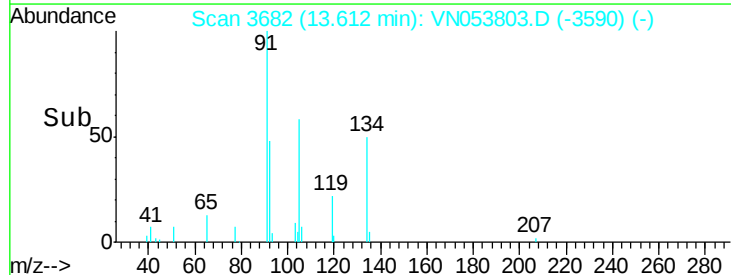
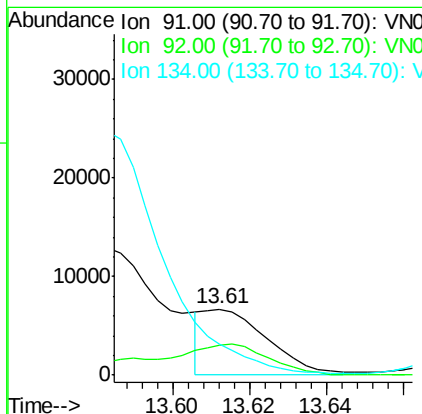
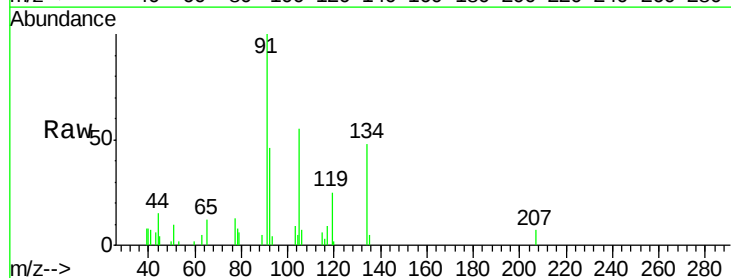
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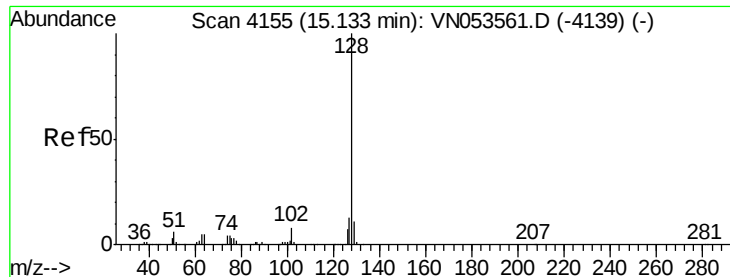
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#89  
 n-Butylbenzene  
 Concen: 0.334 ug/l m  
 RT: 13.61 min Scan# 3682  
 Delta R.T. -0.00 min  
 Lab File: VN053803.D  
 Acq: 15 Feb 2019 16:38

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 91      | 100   |       |       |
| 92      | 0.0   | 26.3  | 78.8# |
| 134     | 569.7 | 13.5  | 40.5# |





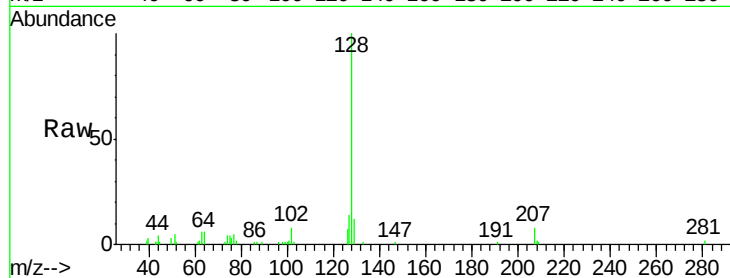
#95  
Naphthalene  
Concen: 4.070 ug/l  
RT: 15.13 min Scan# 4155  
Delta R.T. 0.00 min  
Lab File: VN053803.D  
Acq: 15 Feb 2019 16:38

Instrument :  
MSVOA\_N  
ClientSampleId :  
CL-01-021419-A

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 128     | 100   |       |       |
| 127     | 12.8  | 10.3  | 15.5  |
| 129     | 11.4  | 8.6   | 13.0  |

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Abundance Ion 128.00 (127.70 to 128.70): V  
Ion 127.00 (126.70 to 127.70): V  
Ion 129.00 (128.70 to 129.70): V

