

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_N\DATA\VN122218\  
 Data File : VN053135.D  
 Acq On : 22 Dec 2018 16:18  
 Operator : MD\SY  
 Sample : J6392-20ME  
 Misc : 6.13g/5mL/100uL/5.00mL/MSVOA\_N/MEOH  
 ALS Vial : 13 Sample Multiplier: 28

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 KY001SB106-121218-(20-22)ME

Manual Integrations  
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MMDadoda  
 12/24/2018 12:22:03 PM

Quant Time: Dec 24 00:13:24 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N121818W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Dec 18 13:03:37 2018  
 Response via : Initial Calibration

| Internal Standards          | R.T.   | QIon | Response  | Conc    | Units   | Dev(Min) |
|-----------------------------|--------|------|-----------|---------|---------|----------|
| 1) Pentafluorobenzene       | 7.66   | 168  | 1159344   | 50.00   | ug/l    | 0.00     |
| 34) 1,4-Difluorobenzene     | 8.58   | 114  | 1770744   | 50.00   | ug/l    | 0.00     |
| 63) Chlorobenzene-d5        | 11.41  | 117  | 1564840   | 50.00   | ug/l    | 0.00     |
| 72) 1,4-Dichlorobenzene-d4  | 13.35  | 152  | 743339    | 50.00   | ug/l    | 0.00     |
| System Monitoring Compounds |        |      |           |         |         |          |
| 33) 1,2-Dichloroethane-d4   | 8.02   | 65   | 533202    | 45.32   | ug/l    | 0.00     |
| Spiked Amount               | 50.000 |      | Recovery  | =       | 90.64%  |          |
| 35) Dibromofluoromethane    | 7.59   | 113  | 434938    | 53.77   | ug/l    | 0.00     |
| Spiked Amount               | 50.000 |      | Recovery  | =       | 107.54% |          |
| 50) Toluene-d8              | 10.09  | 98   | 2272830   | 52.34   | ug/l    | 0.00     |
| Spiked Amount               | 50.000 |      | Recovery  | =       | 104.68% |          |
| 62) 4-Bromofluorobenzene    | 12.40  | 95   | 753965    | 49.46   | ug/l    | 0.00     |
| Spiked Amount               | 50.000 |      | Recovery  | =       | 98.92%  |          |
| Target Compounds            |        |      |           |         |         |          |
|                             |        |      |           |         | Qvalue  |          |
| 31) Cyclohexane             | 7.64   | 56   | 810532    | 39.588  | ug/l #  | 60       |
| 39) Methylcyclohexane       | 9.08   | 83   | 2552975   | 123.650 | ug/l    | 91       |
| 40) Benzene                 | 8.04   | 78   | 313367    | 6.199   | ug/l    | 99       |
| 52) Toluene                 | 10.16  | 92   | 32870     | 1.049   | ug/l    | 100      |
| 67) Ethyl Benzene           | 11.51  | 91   | 15857443  | 265.822 | ug/l    | 95       |
| 68) m/p-Xylenes             | 11.63  | 106  | 9529381   | 420.203 | ug/l    | 90       |
| 69) o-Xylene                | 11.95  | 106  | 5323630   | 244.636 | ug/l    | 100      |
| 73) Isopropylbenzene        | 12.25  | 105  | 6529259   | 112.264 | ug/l    | 99       |
| 78) n-propylbenzene         | 12.59  | 91   | 12543698  | 189.371 | ug/l    | 99       |
| 80) 1,3,5-Trimethylbenzene  | 12.73  | 105  | 12675589  | 267.388 | ug/l    | 97       |
| 84) 1,2,4-Trimethylbenzene  | 13.03  | 105  | 21794357m | 457.330 | ug/l    |          |
| 85) sec-Butylbenzene        | 13.17  | 105  | 1257417   | 22.173  | ug/l #  | 49       |
| 86) p-Isopropyltoluene      | 13.29  | 119  | 713017    | 14.551  | ug/l    | 100      |
| 89) n-Butylbenzene          | 13.62  | 91   | 2111796   | 50.095  | ug/l #  | 74       |
| 95) Naphthalene             | 15.13  | 128  | 4431704   | 149.304 | ug/l    | 100      |

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

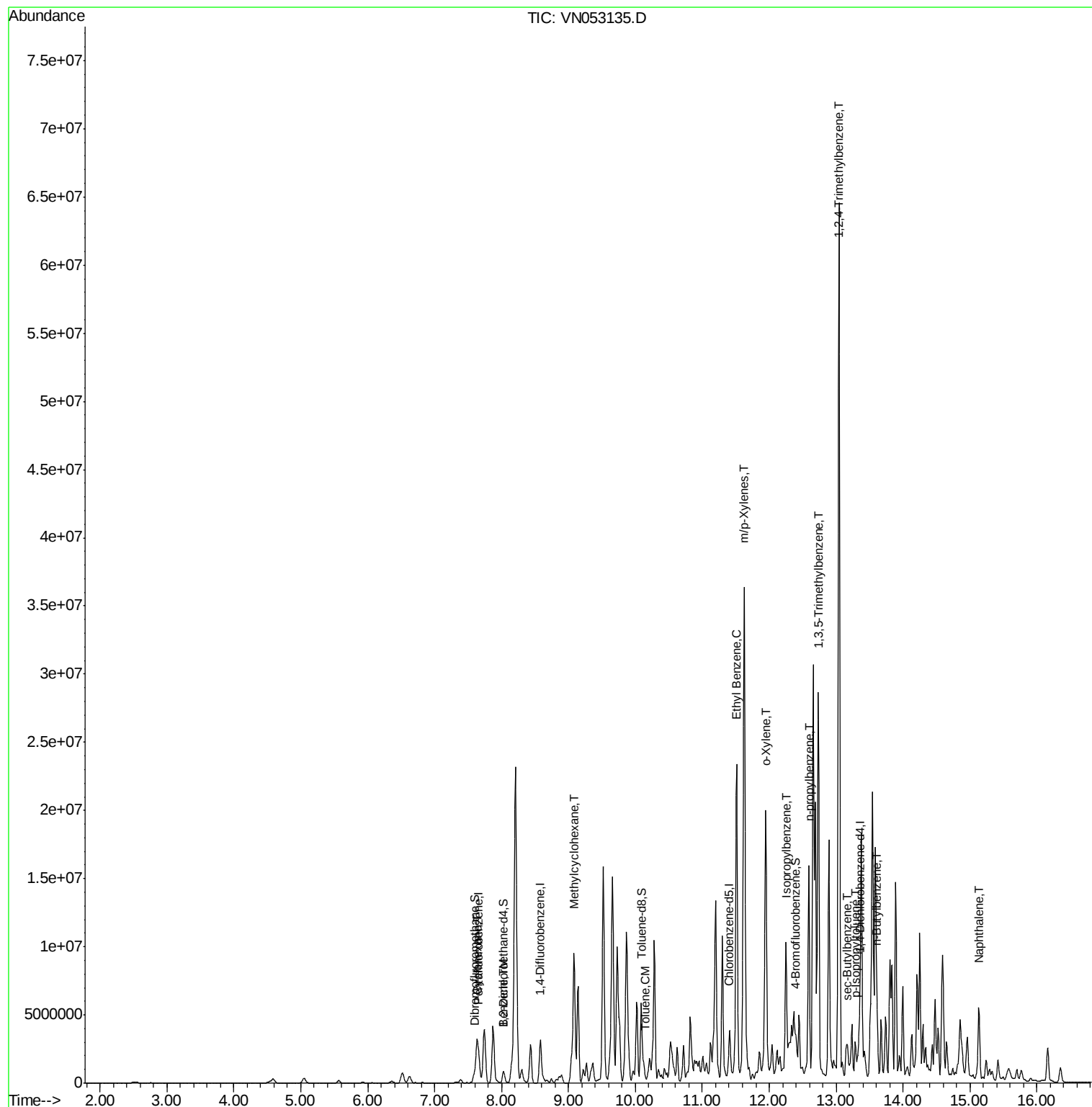
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA\_N\DATA\VN122218\  
Data File : VN053135.D  
Acq On : 22 Dec 2018 16:18  
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Instrument :  
MSVOA\_N  
ClientSampleId :  
KY001SB106-121218-(20-22)ME

Manual Integrations  
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12/24/2018 12:22:03 PM

Quant Time: Dec 24 00:13:24 2018  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_N\METHODS\82N121818W.M  
Quant Title : SW846 8260  
QLast Update : Tue Dec 18 13:03:37 2018  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. -0.00 min

Lab File: VN053135.D

Acq: 22 Dec 2018 16:18

Instrument :

MSVOA\_N

ClientSampleId :

KY001SB106-121218-(20-22)ME

Tgt Ion:168 Resp: 1159344

Ion Ratio Lower Upper

168 100

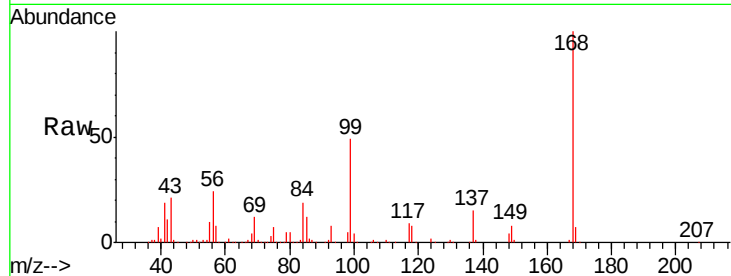
99 49.3 40.2 60.2

Manual Integrations

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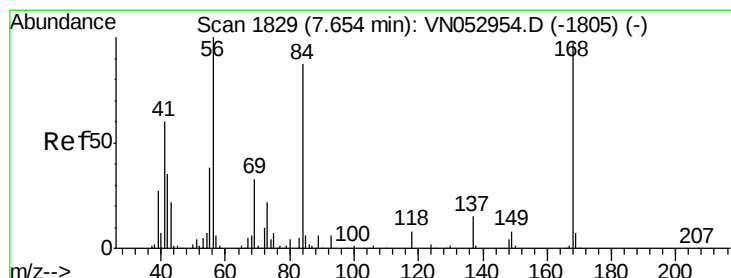
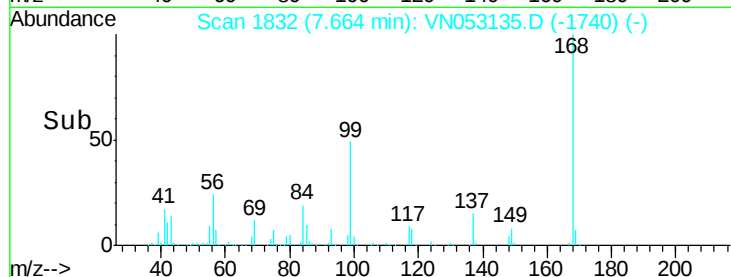
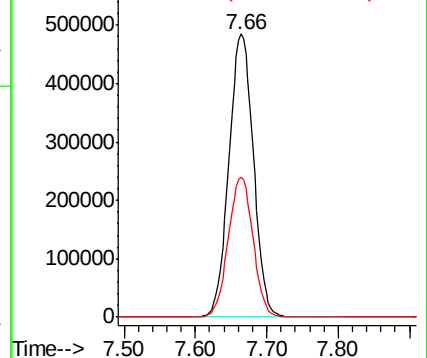
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Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO



#31

Cyclohexane

Concen: 39.588 ug/l

RT: 7.64 min Scan# 1824

Delta R.T. -0.02 min

Lab File: VN053135.D

Acq: 22 Dec 2018 16:18

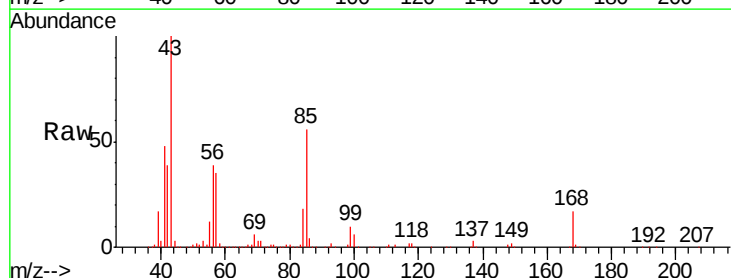
Tgt Ion: 56 Resp: 810532

Ion Ratio Lower Upper

56 100

69 12.8 26.6 39.8#

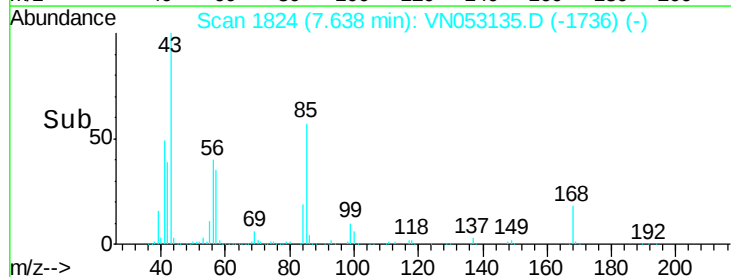
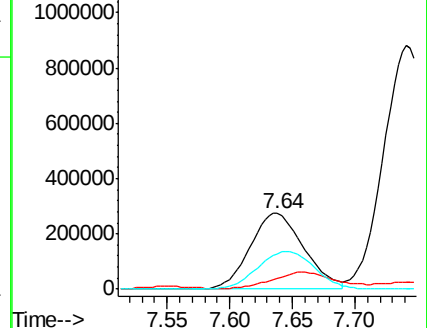
84 47.1 68.4 102.6#

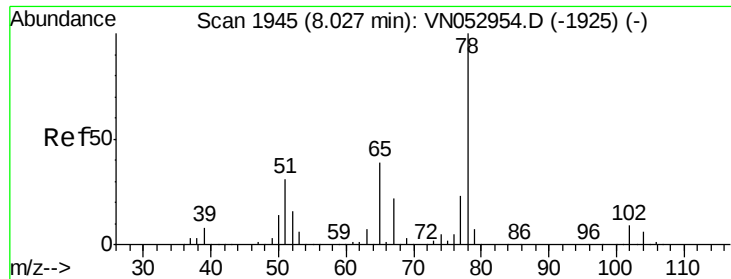


Abundance Ion 56.00 (55.70 to 56.70): VNO

Ion 69.00 (68.70 to 69.70): VNO

Ion 84.00 (83.70 to 84.70): VNO





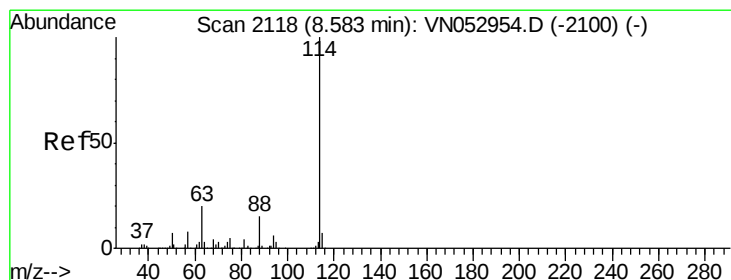
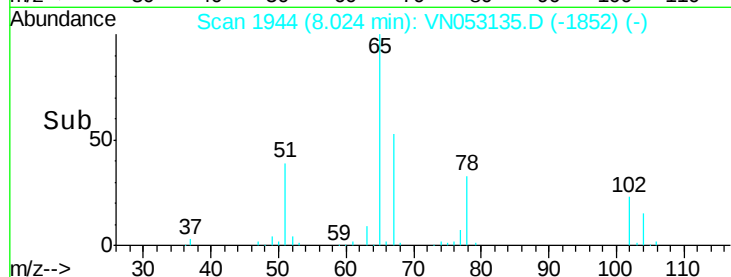
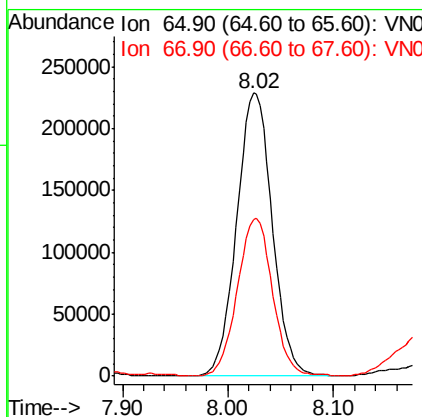
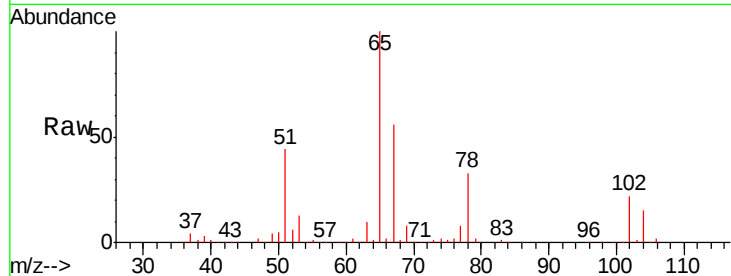
#33  
 1,2-Dichloroethane-d4  
 Concen: Below ug/l  
 RT: 8.02 min Scan# 1944  
 Delta R.T. -0.00 min  
 Lab File: VN053135.D  
 Acq: 22 Dec 2018 16:18

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 KY001SB106-121218-(20-22)ME

Tgt Ion: 65 Resp: 533202  
 Ion Ratio Lower Upper  
 65 100  
 67 54.8 0.0 110.4

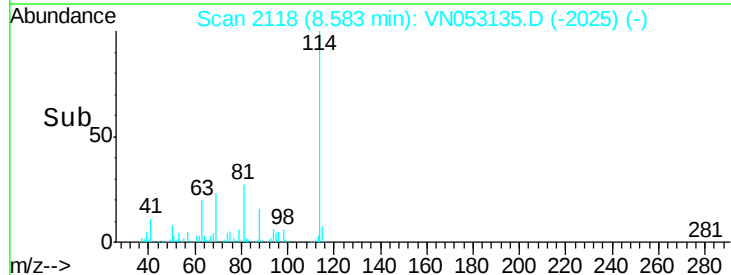
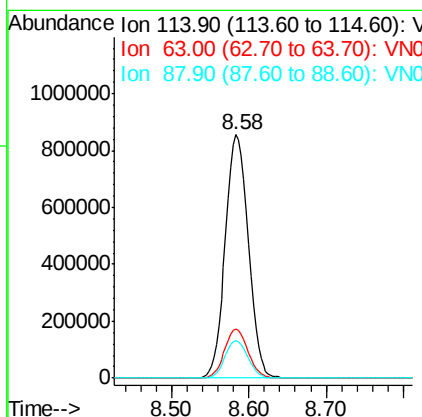
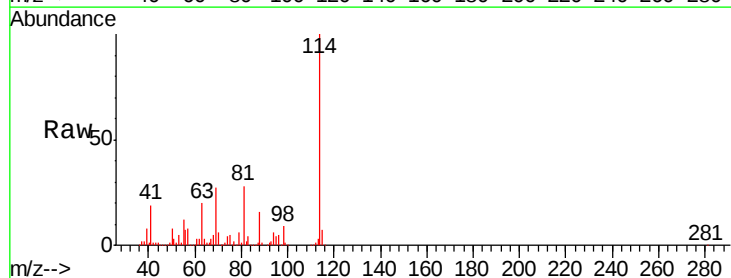
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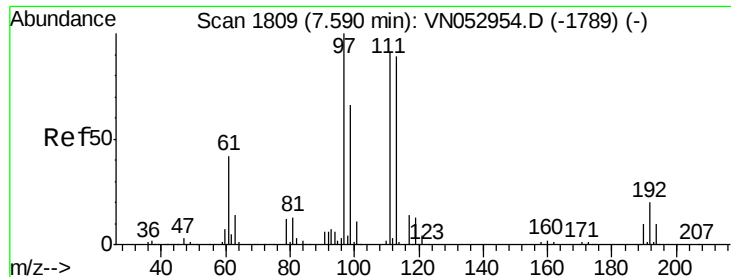
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#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.58 min Scan# 2118  
 Delta R.T. -0.00 min  
 Lab File: VN053135.D  
 Acq: 22 Dec 2018 16:18

Tgt Ion: 114 Resp: 1770744  
 Ion Ratio Lower Upper  
 114 100  
 63 20.4 0.0 39.8  
 88 15.6 0.0 31.0





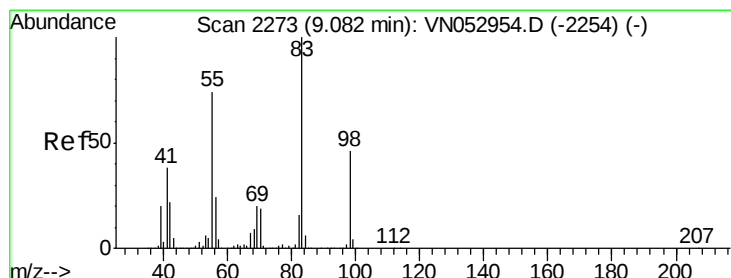
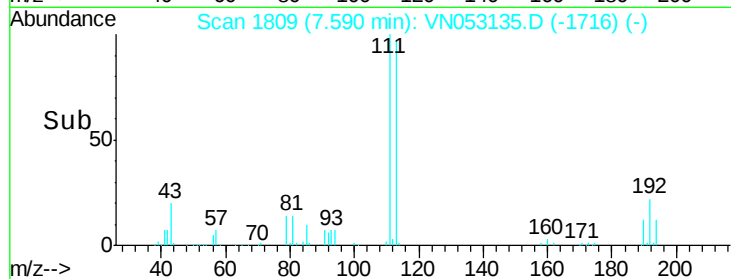
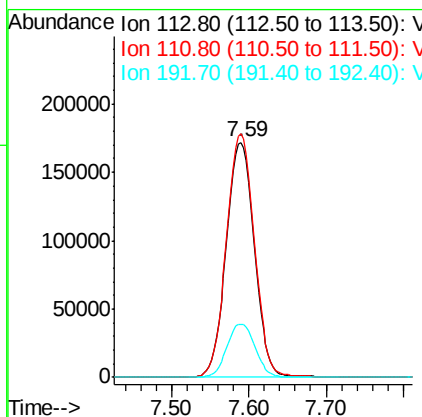
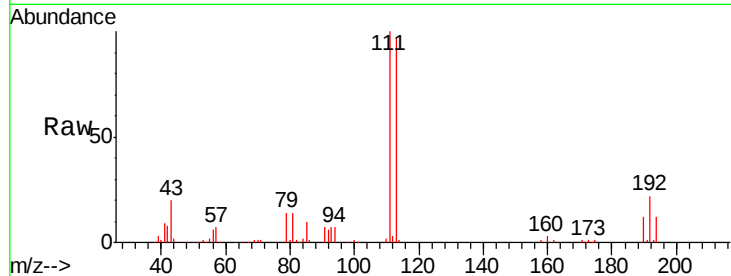
#35  
Dibromofluoromethane  
Concen: 50.000 ug/l  
RT: 7.59 min Scan# 1809  
Delta R.T. -0.00 min  
Lab File: VN053135.D  
Acq: 22 Dec 2018 16:18

Instrument :  
MSVOA\_N  
ClientSampleId :  
KY001SB106-121218-(20-22)ME

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 113     | 100   | 434938 |       |       |
| 111     | 102.8 | 83.0   | 124.4 |       |
| 192     | 22.7  | 17.5   | 26.3  |       |

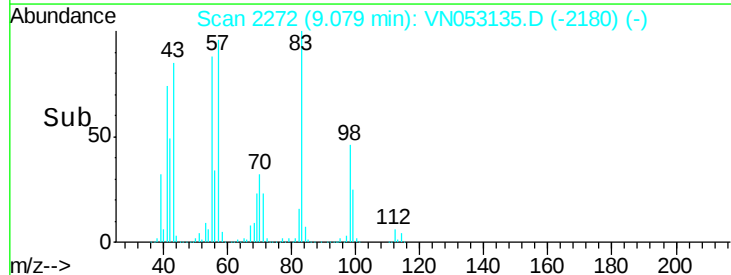
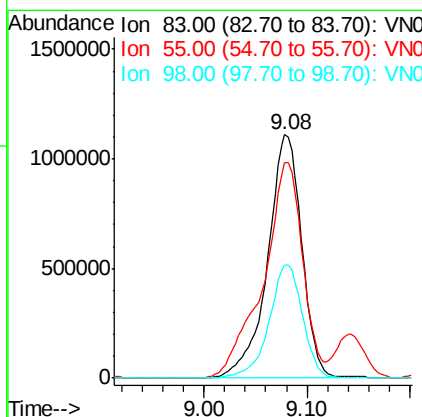
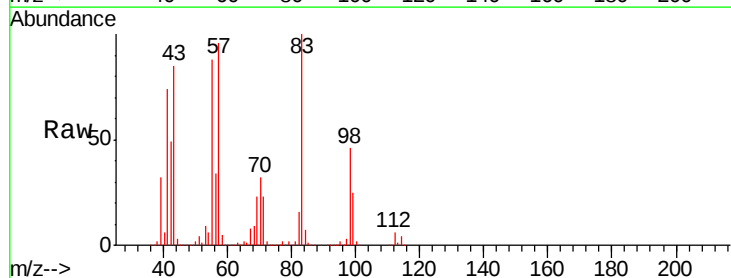
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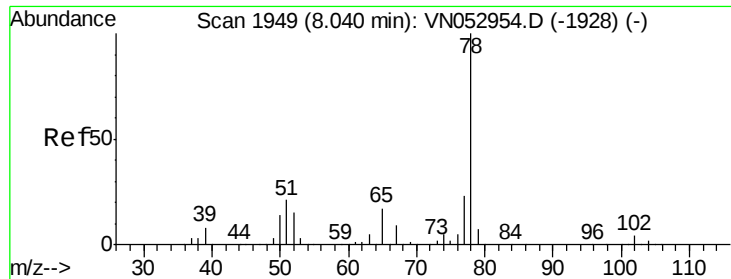
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#39  
Methylcyclohexane  
Concen: 123.650 ug/l  
RT: 9.08 min Scan# 2272  
Delta R.T. -0.00 min  
Lab File: VN053135.D  
Acq: 22 Dec 2018 16:18

| Tgt Ion | Ratio | Resp    | Lower | Upper |
|---------|-------|---------|-------|-------|
| 83      | 100   | 2552975 |       |       |
| 55      | 88.3  | 61.3    | 91.9  |       |
| 98      | 46.4  | 37.0    | 55.4  |       |





#40

Benzene

Concen: 6.199 ug/l

RT: 8.04 min Scan# 1949

Delta R.T. -0.00 min

Lab File: VN053135.D

Acq: 22 Dec 2018 16:18

Instrument :

MSVOA\_N

ClientSampleId :

KY001SB106-121218-(20-22)ME

Tgt Ion: 78 Resp: 313367

Ion Ratio Lower Upper

78 100

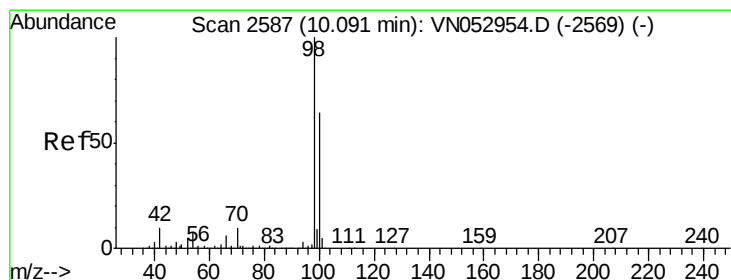
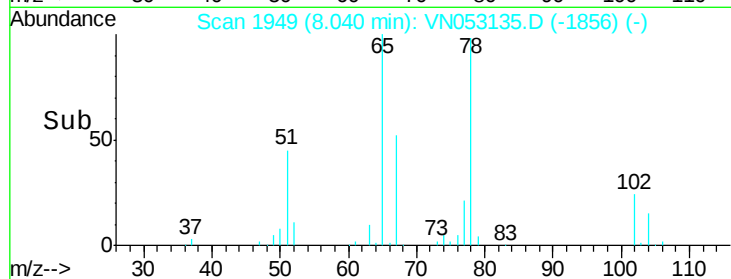
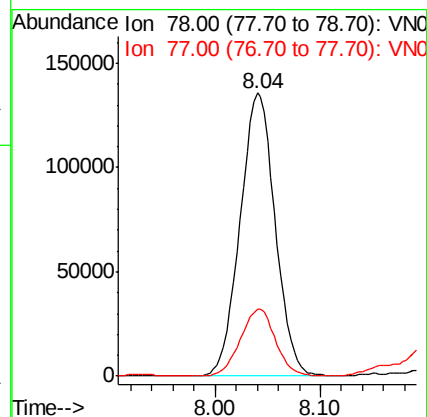
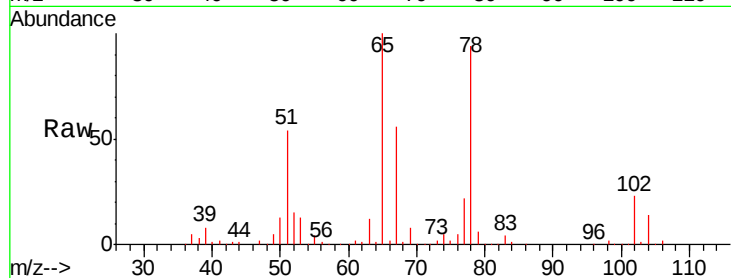
77 23.5 18.5 27.7

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#50

Toluene-d8

Concen: N.D. ug/l

RT: 10.09 min Scan# 2587

Delta R.T. -0.00 min

Lab File: VN053135.D

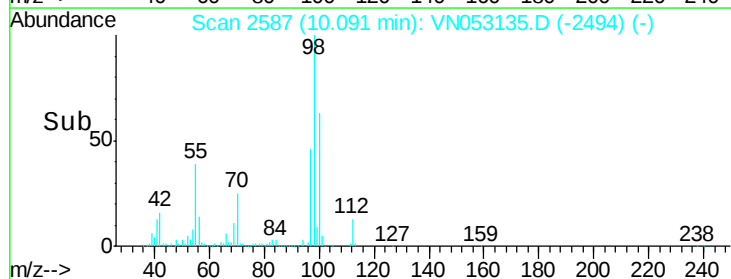
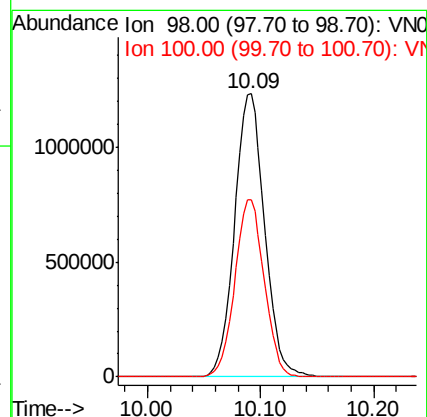
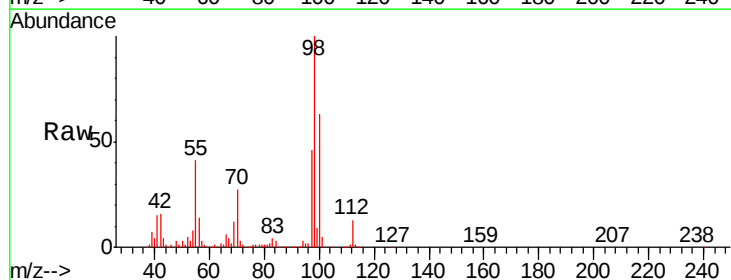
Acq: 22 Dec 2018 16:18

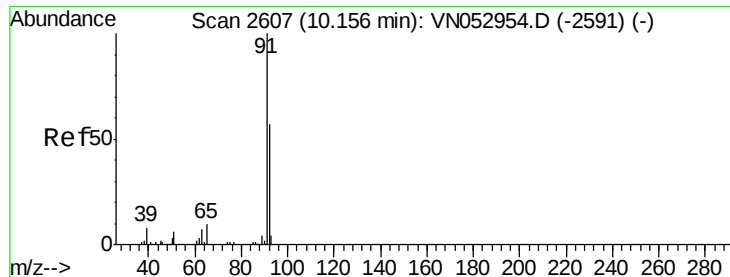
Tgt Ion: 98 Resp: 2272830

Ion Ratio Lower Upper

98 100

100 61.3 51.6 77.4





#52

Toluene

Concen: 1.049 ug/l

RT: 10.16 min Scan# 2607

Delta R.T. -0.00 min

Lab File: VN053135.D

Acq: 22 Dec 2018 16:18

Instrument :

MSVOA\_N

ClientSampleId :

KY001SB106-121218-(20-22)ME

Tgt Ion: 92 Resp: 32870

Ion Ratio Lower Upper

92 100

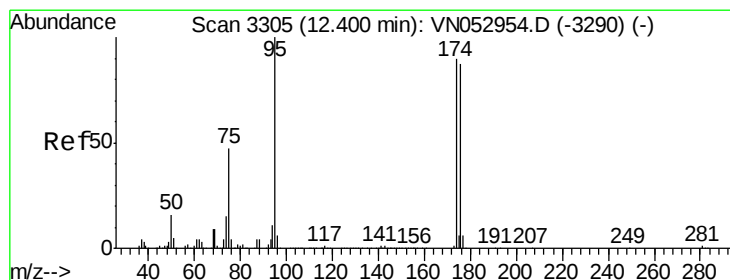
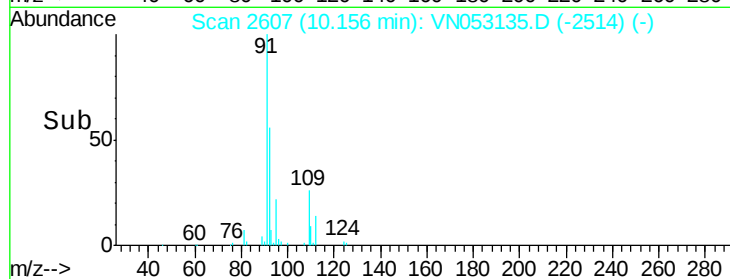
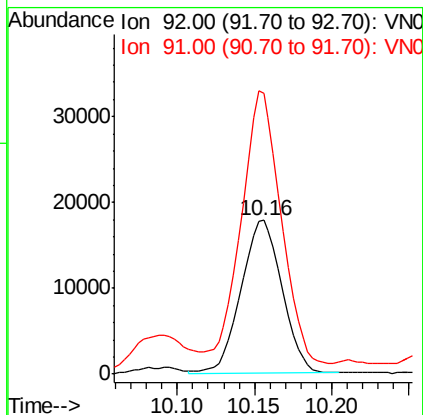
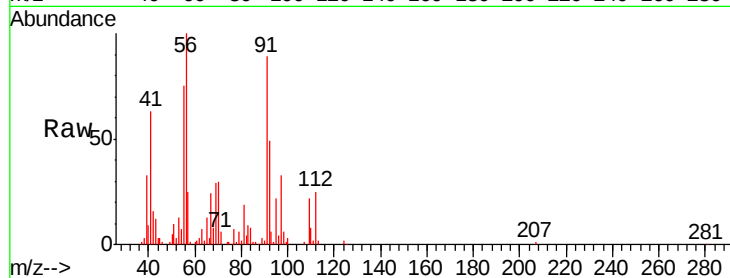
91 175.2 139.8 209.6

Manual Integrations

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#62

4-Bromofluorobenzene

Concen: N.D. ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.00 min

Lab File: VN053135.D

Acq: 22 Dec 2018 16:18

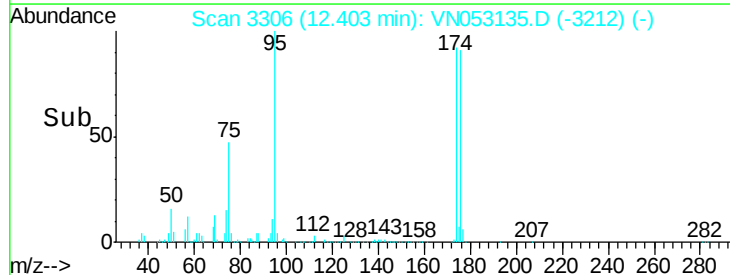
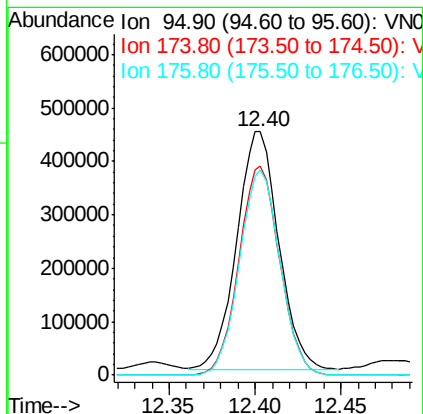
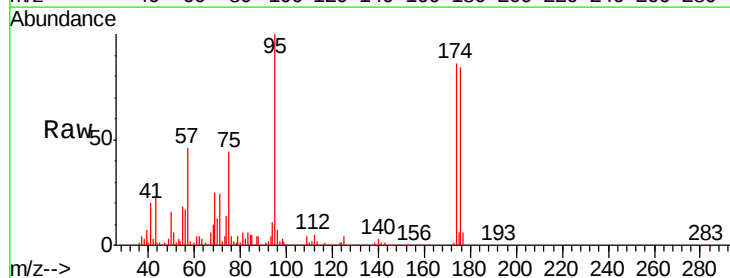
Tgt Ion: 95 Resp: 753965

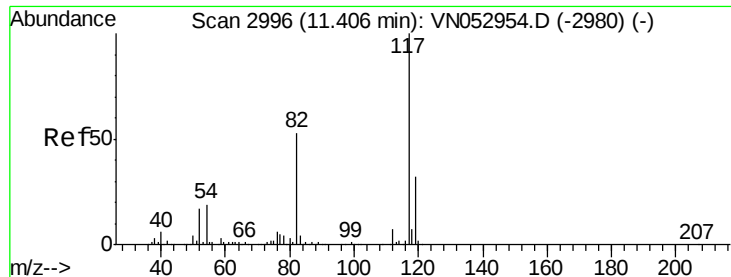
Ion Ratio Lower Upper

95 100

174 85.6 0.0 178.8

176 83.4 0.0 173.8





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2996

Delta R.T. -0.00 min

Lab File: VN053135.D

Acq: 22 Dec 2018 16:18

Instrument :

MSVOA\_N

ClientSampleId :

KY001SB106-121218-(20-22)ME

Tgt Ion:117 Resp: 1564840

Ion Ratio Lower Upper

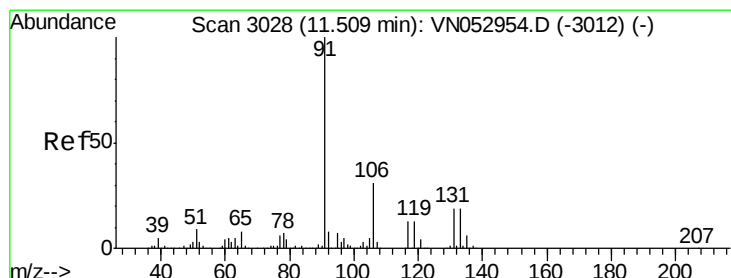
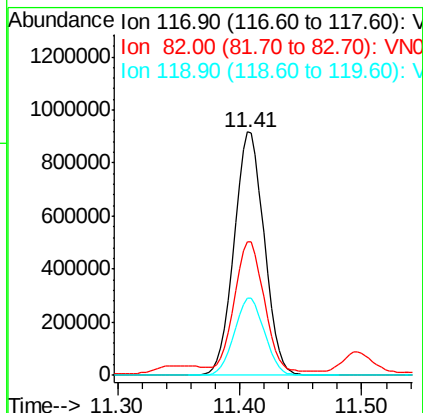
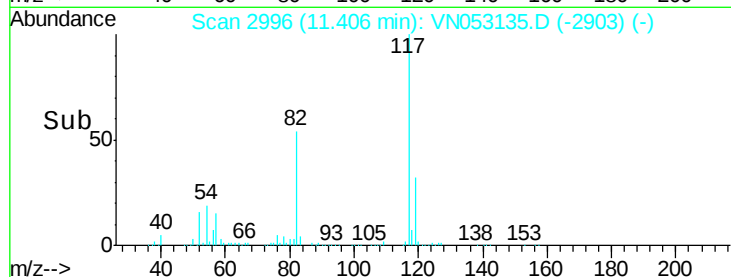
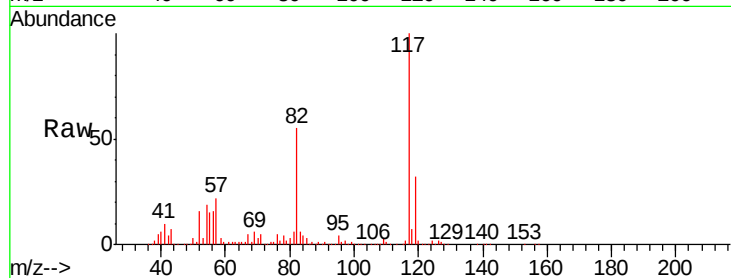
117 100

82 51.1 42.8 64.2

119 31.7 25.5 38.3

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12/24/2018 12:22:03 PM



#67

Ethyl Benzene

Concen: 265.822 ug/l

RT: 11.51 min Scan# 3027

Delta R.T. -0.00 min

Lab File: VN053135.D

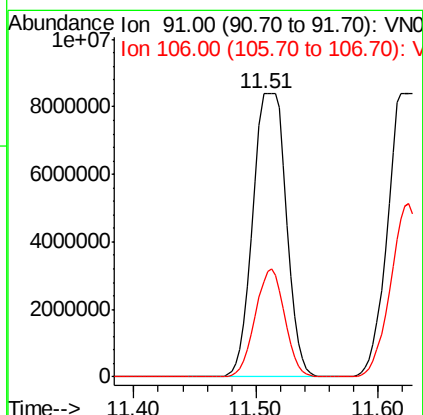
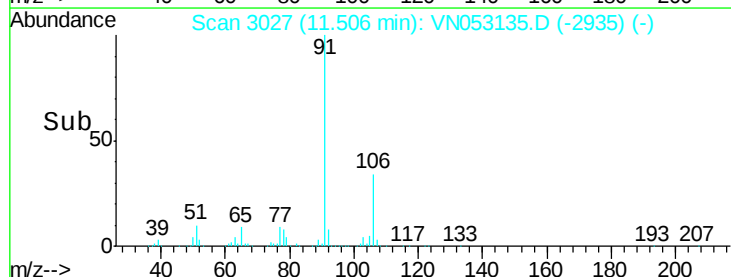
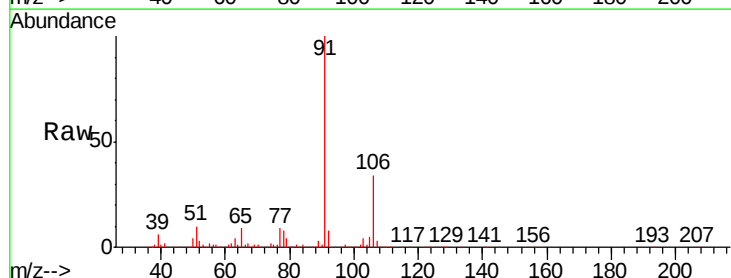
Acq: 22 Dec 2018 16:18

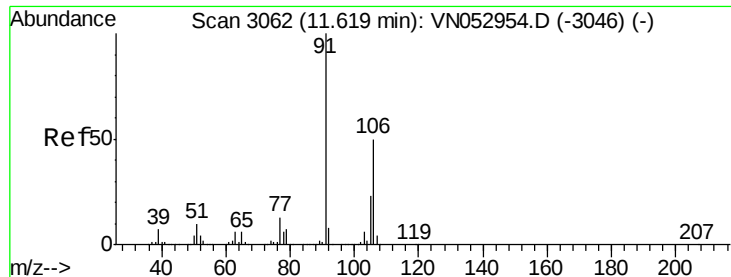
Tgt Ion: 91 Resp:15857443

Ion Ratio Lower Upper

91 100

106 33.7 24.9 37.3





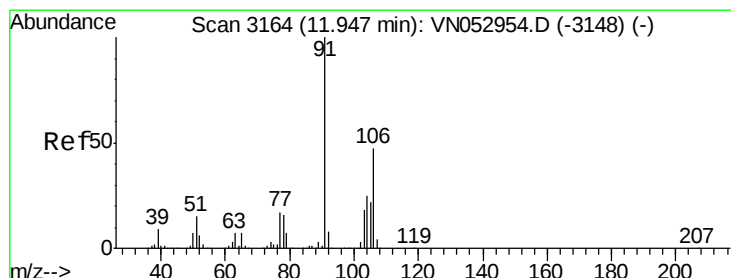
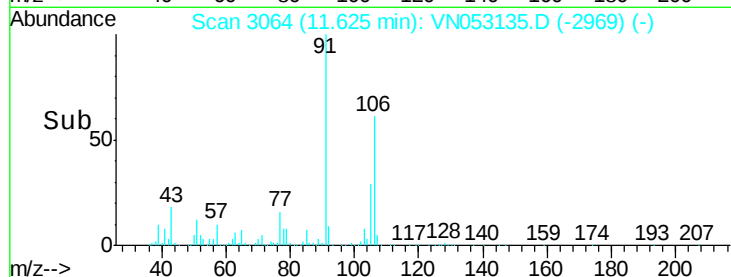
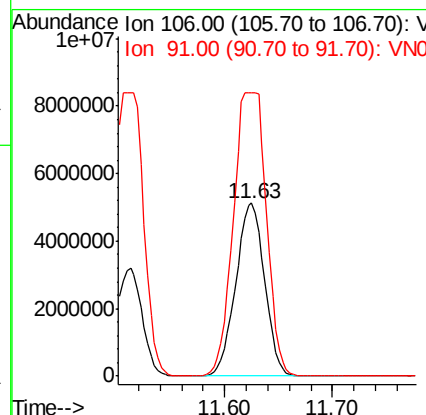
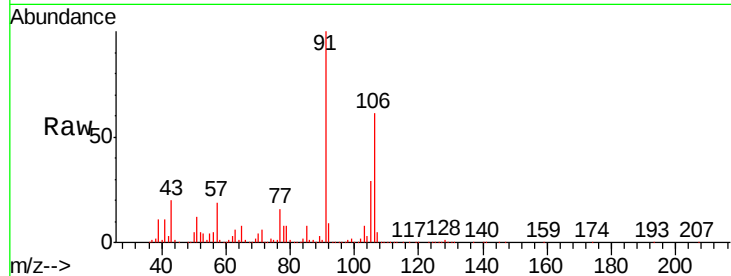
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m/p-Xylenes  
Concen: 420.203 ug/l  
RT: 11.63 min Scan# 3064  
Delta R.T. 0.01 min  
Lab File: VN053135.D  
Acq: 22 Dec 2018 16:18

Instrument :  
MSVOA\_N  
ClientSampleId :  
KY001SB106-121218-(20-22)ME

Tgt Ion:106 Resp: 9529381  
Ion Ratio Lower Upper  
106 100  
91 187.7 162.2 243.4

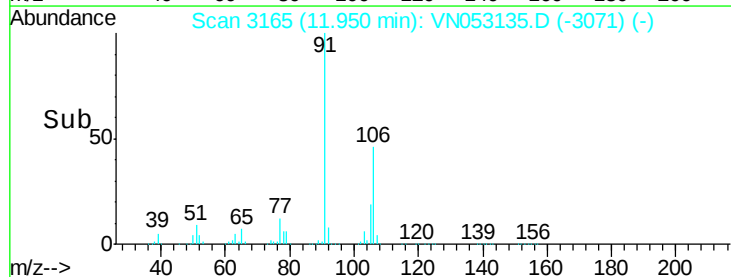
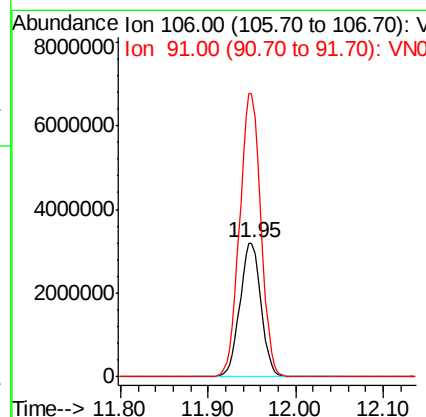
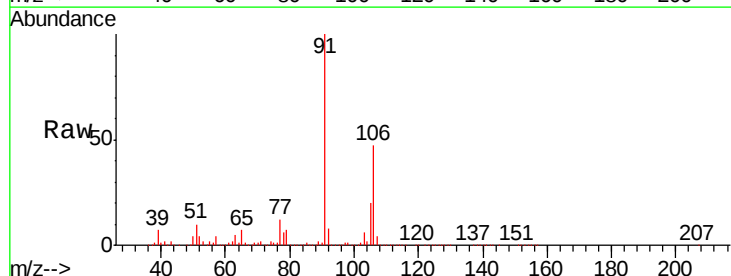
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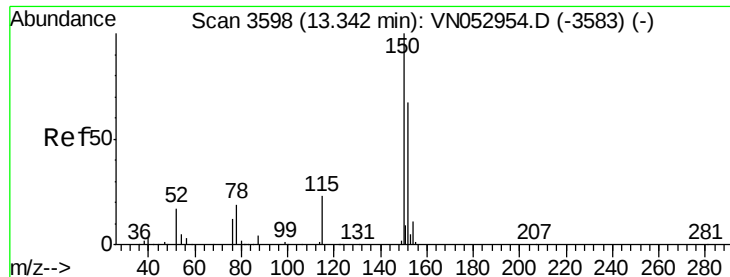
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#69  
o-Xylene  
Concen: 244.636 ug/l  
RT: 11.95 min Scan# 3165  
Delta R.T. 0.00 min  
Lab File: VN053135.D  
Acq: 22 Dec 2018 16:18

Tgt Ion:106 Resp: 5323630  
Ion Ratio Lower Upper  
106 100  
91 213.1 106.6 319.8





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.35 min Scan# 3599

Delta R.T. 0.00 min

Lab File: VN053135.D

Acq: 22 Dec 2018 16:18

Instrument :

MSVOA\_N

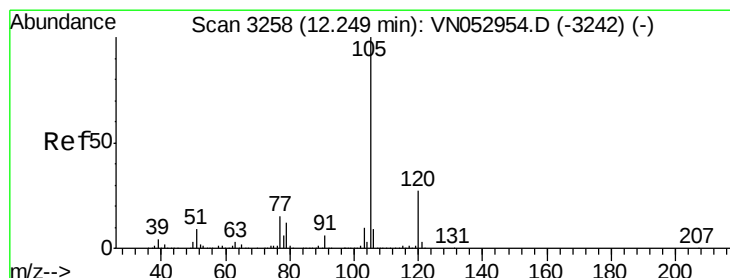
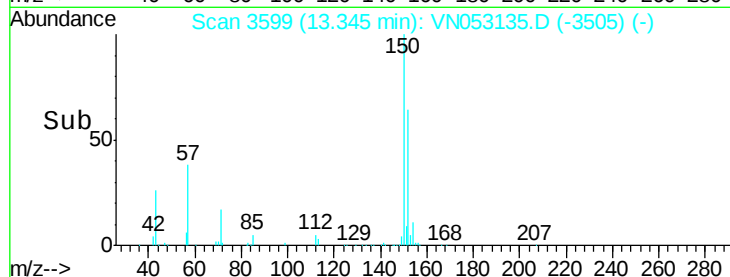
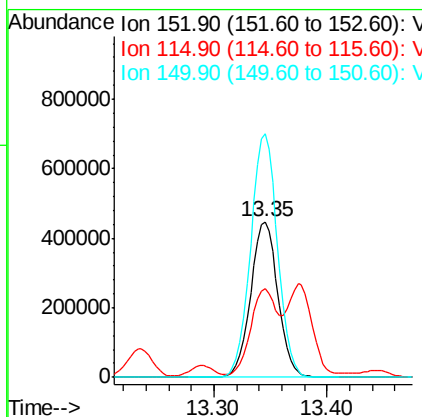
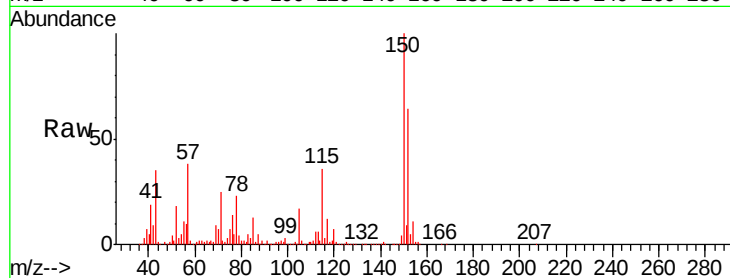
ClientSampleId :

KY001SB106-121218-(20-22)ME

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 115     | 52.8  | 28.3  | 85.0  |
| 150     | 155.0 | 0.0   | 347.8 |

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#73

Isopropylbenzene

Concen: 112.264 ug/l

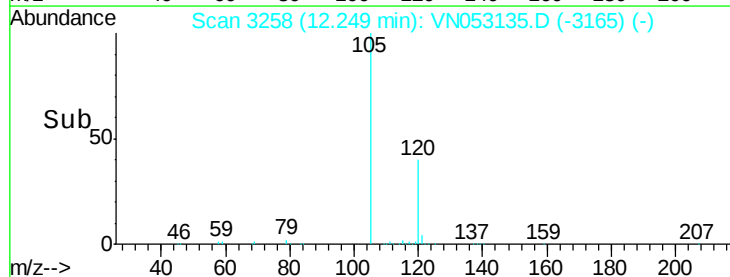
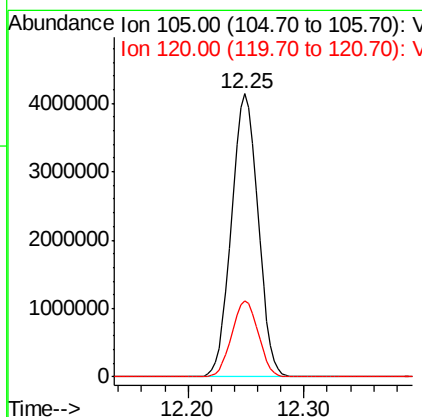
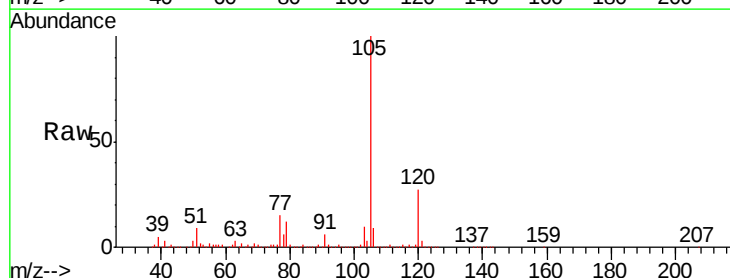
RT: 12.25 min Scan# 3258

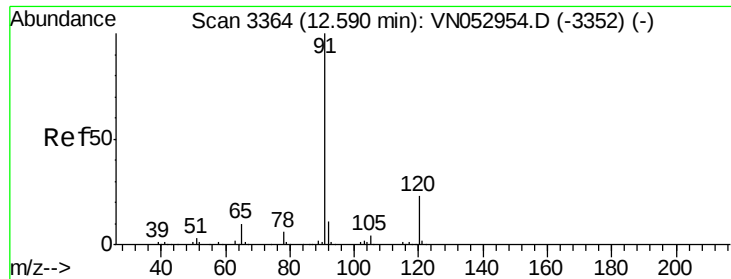
Delta R.T. -0.00 min

Lab File: VN053135.D

Acq: 22 Dec 2018 16:18

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 105     | 100   |       |       |
| 120     | 27.0  | 13.3  | 39.9  |





#78

n-propylbenzene

Concen: 189.371 ug/l

RT: 12.59 min Scan# 3365

Delta R.T. 0.00 min

Lab File: VN053135.D

Acq: 22 Dec 2018 16:18

Instrument :

MSVOA\_N

ClientSampleId :

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Tgt Ion: 91 Resp:12543698

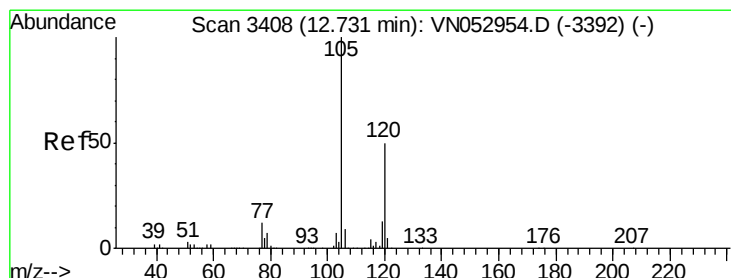
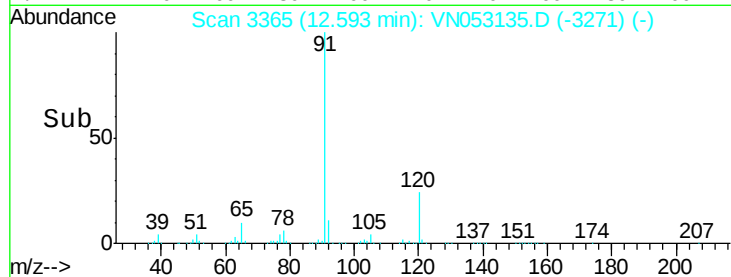
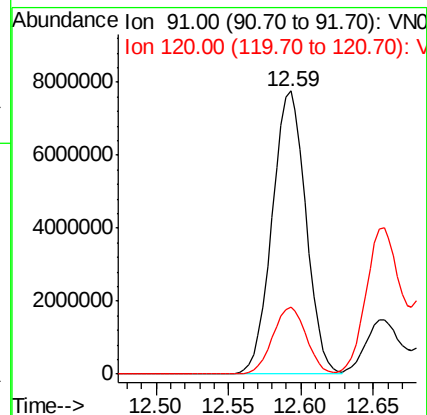
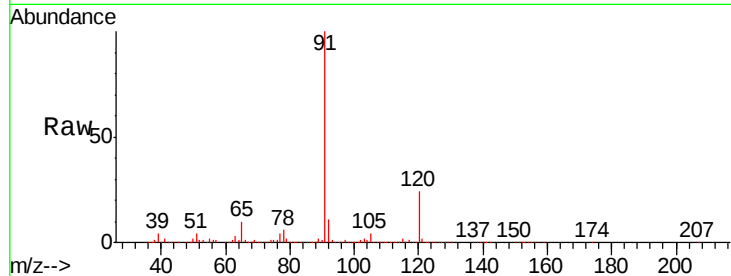
Ion Ratio Lower Upper

91 100

120 23.6 11.5 34.5

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#80

1,3,5-Trimethylbenzene

Concen: 267.388 ug/l

RT: 12.73 min Scan# 3409

Delta R.T. 0.00 min

Lab File: VN053135.D

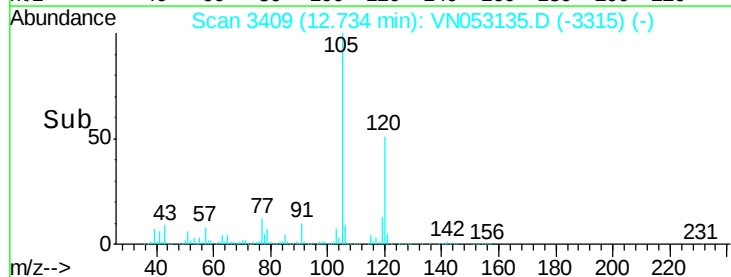
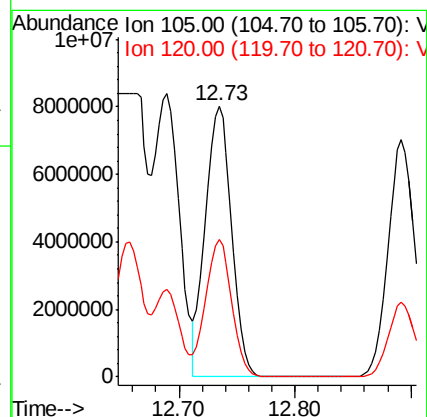
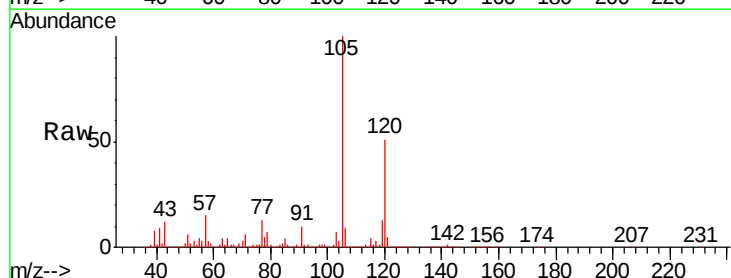
Acq: 22 Dec 2018 16:18

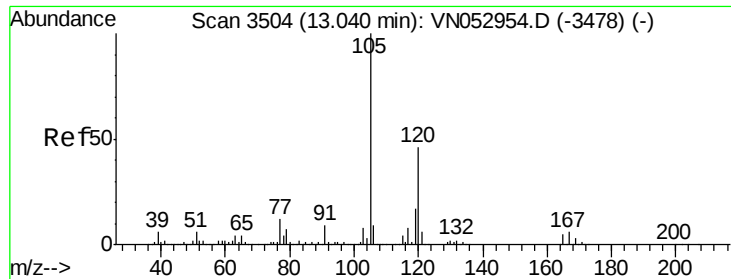
Tgt Ion:105 Resp:12675589

Ion Ratio Lower Upper

105 100

120 51.0 24.4 73.2





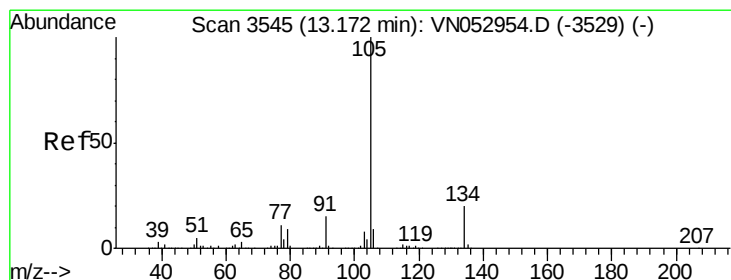
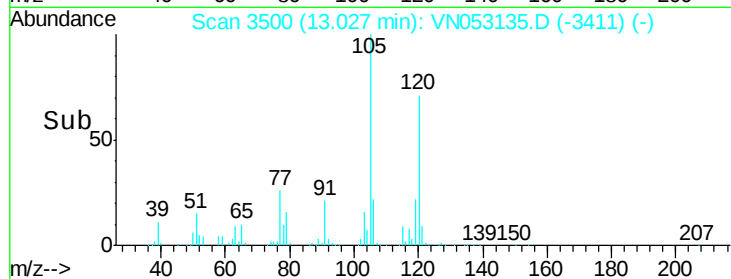
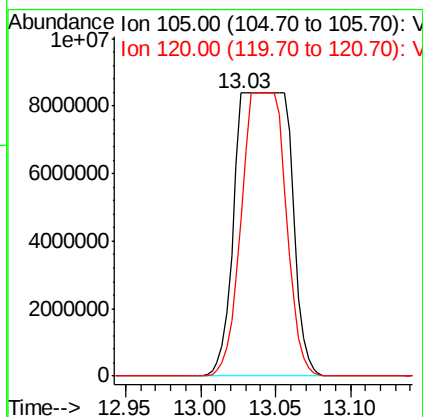
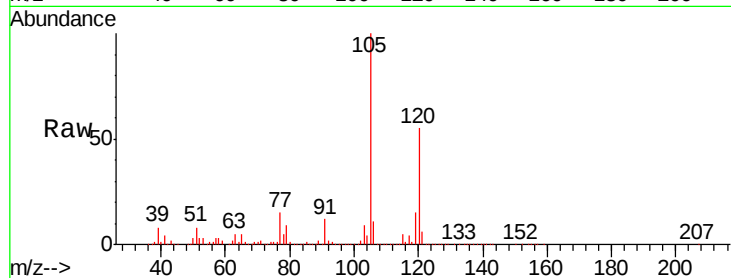
#84  
1,2,4-Trimethylbenzene  
Concen: 457.330 ug/l m  
RT: 13.03 min Scan# 3500  
Delta R.T. -0.01 min  
Lab File: VN053135.D  
Acq: 22 Dec 2018 16:18

Instrument :  
MSVOA\_N  
ClientSampleId :  
KY001SB106-121218-(20-22)ME

Tgt Ion:105 Resp:21794357  
Ion Ratio Lower Upper  
105 100  
120 16.1 22.9 68.8#

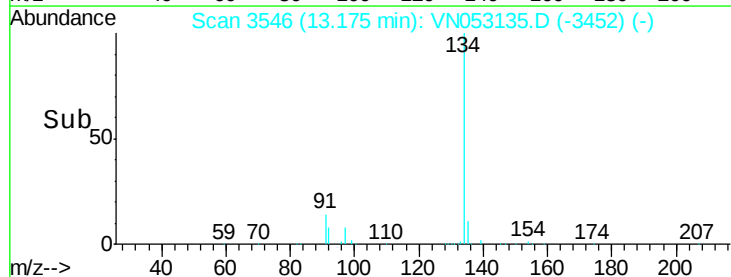
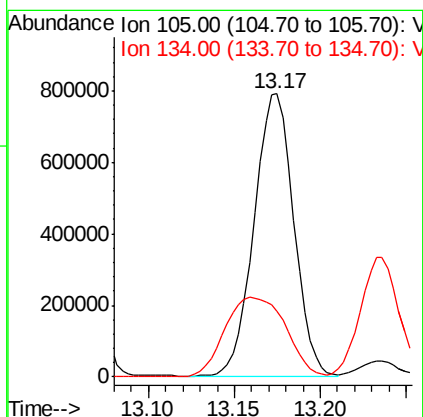
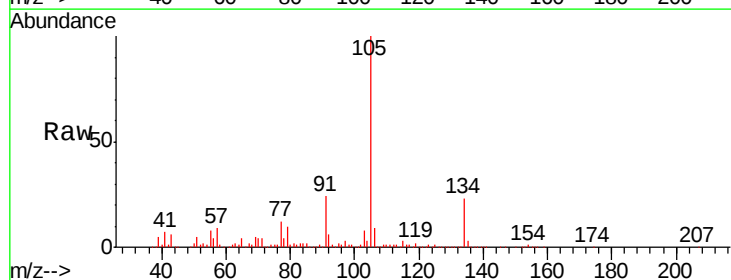
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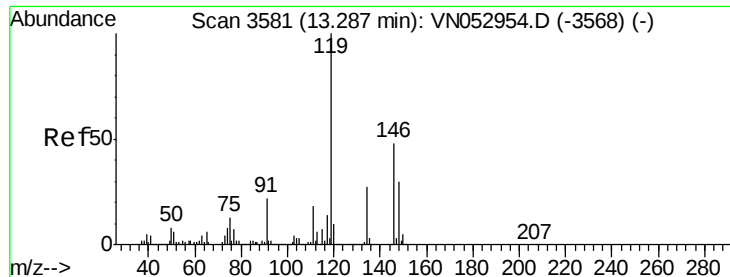
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#85  
sec-Butylbenzene  
Concen: 22.173 ug/l  
RT: 13.17 min Scan# 3546  
Delta R.T. 0.00 min  
Lab File: VN053135.D  
Acq: 22 Dec 2018 16:18

Tgt Ion:105 Resp: 1257417  
Ion Ratio Lower Upper  
105 100  
134 43.6 10.1 30.3#





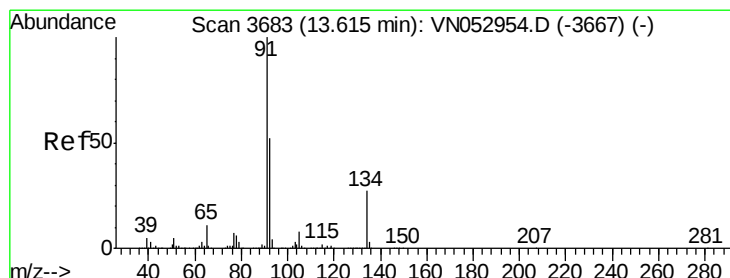
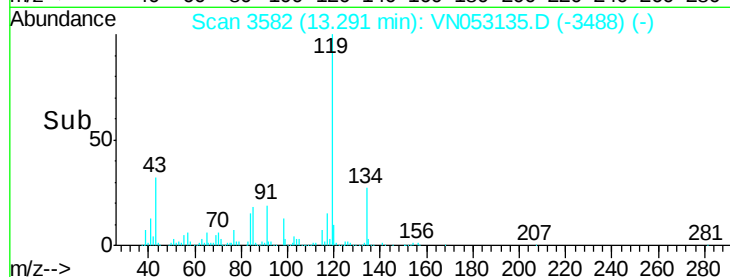
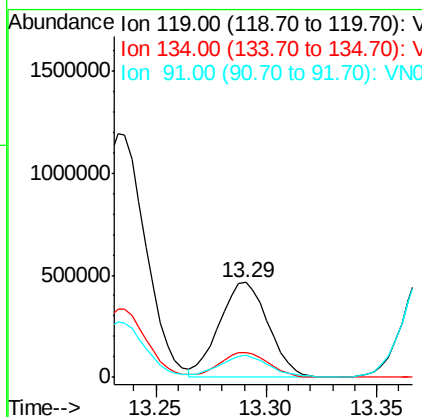
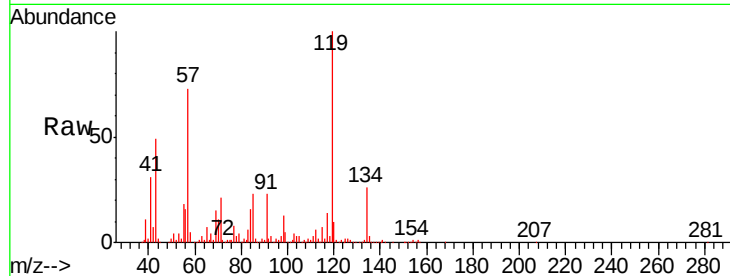
#86  
p-Isopropyltoluene  
Concen: 14.551 ug/l  
RT: 13.29 min Scan# 3582  
Delta R.T. 0.00 min  
Lab File: VN053135.D  
Acq: 22 Dec 2018 16:18

Instrument :  
MSVOA\_N  
ClientSampleId :  
KY001SB106-121218-(20-22)ME

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 119     | 100   |       |       |
| 134     | 26.5  | 13.4  | 40.2  |
| 91      | 22.1  | 11.1  | 33.3  |

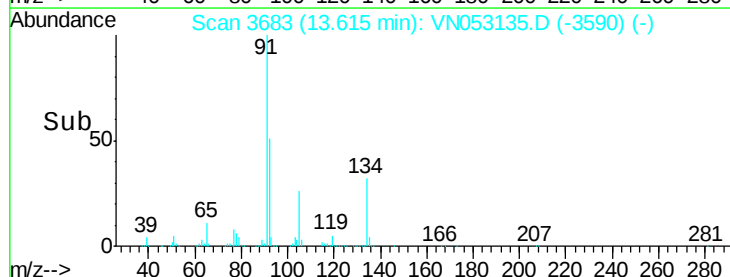
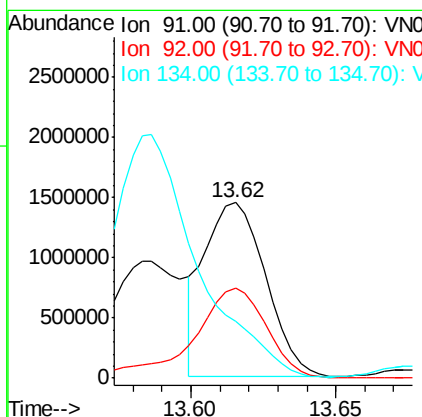
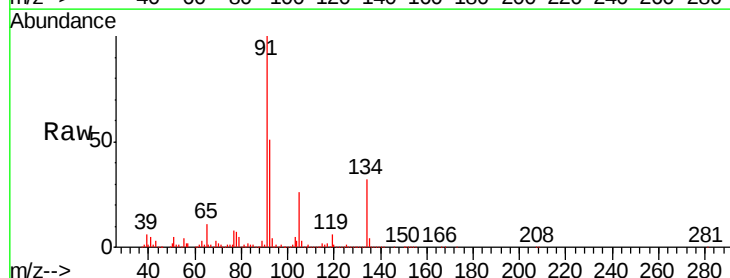
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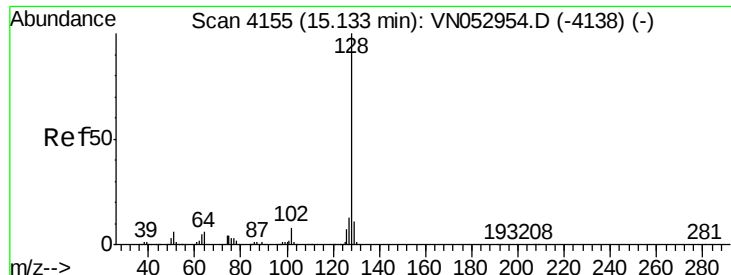
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#89  
n-Butylbenzene  
Concen: 50.095 ug/l  
RT: 13.62 min Scan# 3683  
Delta R.T. -0.00 min  
Lab File: VN053135.D  
Acq: 22 Dec 2018 16:18

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 91      | 100   |       |       |
| 92      | 62.2  | 26.3  | 78.9  |
| 134     | 0.0   | 13.3  | 39.8# |





#95  
Naphthalene  
Concen: 149.304 ug/l  
RT: 15.13 min Scan# 4155  
Delta R.T. -0.00 min  
Lab File: VN053135.D  
Acq: 22 Dec 2018 16:18

Instrument :  
MSVOA\_N  
ClientSampleId :  
KY001SB106-121218-(20-22)ME

Tgt Ion:128 Resp: 4431704  
Ion Ratio Lower Upper  
128 100  
127 12.7 10.2 15.4  
129 11.0 8.6 13.0

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