

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN010719\  
 Data File : VN053295.D  
 Acq On : 7 Jan 2019 11:00  
 Operator : MD\SY  
 Sample : K1061-01  
 Misc : 5.00mL/MSVOA N/WATER  
 ALS Vial : 4 Sample Multiplier: 28

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 TRE-COMP-1

Manual Integrations  
 APPROVED

MMDadoda  
 1/8/2019 9:24:57 AM

Quant Time: Jan 08 01:37:16 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N010519W.M  
 Quant Title : SW846 8260  
 QLast Update : Mon Jan 07 09:34:27 2019  
 Response via : Initial Calibration

| Internal Standards          | R.T.   | QIon | Response | Conc   | Units   | Dev(Min) |
|-----------------------------|--------|------|----------|--------|---------|----------|
| 1) Pentafluorobenzene       | 7.67   | 168  | 1034342  | 50.00  | ug/l    | 0.00     |
| 34) 1,4-Difluorobenzene     | 8.59   | 114  | 1604270  | 50.00  | ug/l    | 0.00     |
| 63) Chlorobenzene-d5        | 11.41  | 117  | 1511407  | 50.00  | ug/l    | 0.00     |
| 72) 1,4-Dichlorobenzene-d4  | 13.34  | 152  | 699225   | 50.00  | ug/l    | 0.00     |
| System Monitoring Compounds |        |      |          |        |         |          |
| 33) 1,2-Dichloroethane-d4   | 8.03   | 65   | 510958   | 47.48  | ug/l    | 0.00     |
| Spiked Amount               | 50.000 |      | Recovery | =      | 94.96%  |          |
| 35) Dibromofluoromethane    | 7.59   | 113  | 460505   | 50.42  | ug/l    | 0.00     |
| Spiked Amount               | 50.000 |      | Recovery | =      | 100.84% |          |
| 50) Toluene-d8              | 10.09  | 98   | 1980030  | 50.26  | ug/l    | 0.00     |
| Spiked Amount               | 50.000 |      | Recovery | =      | 100.52% |          |
| 62) 4-Bromofluorobenzene    | 12.40  | 95   | 713401   | 51.72  | ug/l    | 0.00     |
| Spiked Amount               | 50.000 |      | Recovery | =      | 103.44% |          |
| Target Compounds            |        |      |          |        |         |          |
|                             |        |      |          |        | Qvalue  |          |
| 11) Tert butyl alcohol      | 4.78   | 59   | 17981    | 27.781 | ug/l #  | 91       |
| 16) Acetone                 | 3.82   | 43   | 117490   | 43.519 | ug/l    | 100      |
| 18) Methyl Acetate          | 4.33   | 43   | 8160     | 0.838  | ug/l #  | 62       |
| 25) 2-Butanone              | 6.84   | 43   | 19851    | 4.496  | ug/l    | 97       |
| 39) Methylcyclohexane       | 9.09   | 83   | 9999     | 0.576  | ug/l    | 97       |
| 40) Benzene                 | 8.04   | 78   | 623958   | 13.639 | ug/l    | 100      |
| 52) Toluene                 | 10.16  | 92   | 1002170  | 35.707 | ug/l    | 99       |
| 67) Ethyl Benzene           | 11.51  | 91   | 549825   | 9.855  | ug/l    | 99       |
| 68) m/p-Xylenes             | 11.62  | 106  | 1054125  | 50.247 | ug/l    | 99       |
| 69) o-Xylene                | 11.95  | 106  | 567179   | 27.615 | ug/l    | 99       |
| 73) Isopropylbenzene        | 12.25  | 105  | 148127   | 2.845  | ug/l    | 99       |
| 78) n-propylbenzene         | 12.59  | 91   | 650219   | 11.042 | ug/l    | 100      |
| 80) 1,3,5-Trimethylbenzene  | 12.73  | 105  | 1105797  | 26.370 | ug/l    | 99       |
| 84) 1,2,4-Trimethylbenzene  | 13.04  | 105  | 4016571  | 94.020 | ug/l    | 100      |
| 85) sec-Butylbenzene        | 13.17  | 105  | 81645m   | 1.683  | ug/l    |          |
| 86) p-Isopropyltoluene      | 13.29  | 119  | 54966    | 1.308  | ug/l    | 98       |
| 89) n-Butylbenzene          | 13.61  | 91   | 123998   | 3.521  | ug/l #  | 69       |
| 95) Naphthalene             | 15.13  | 128  | 386038   | 31.401 | ug/l    | 100      |

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

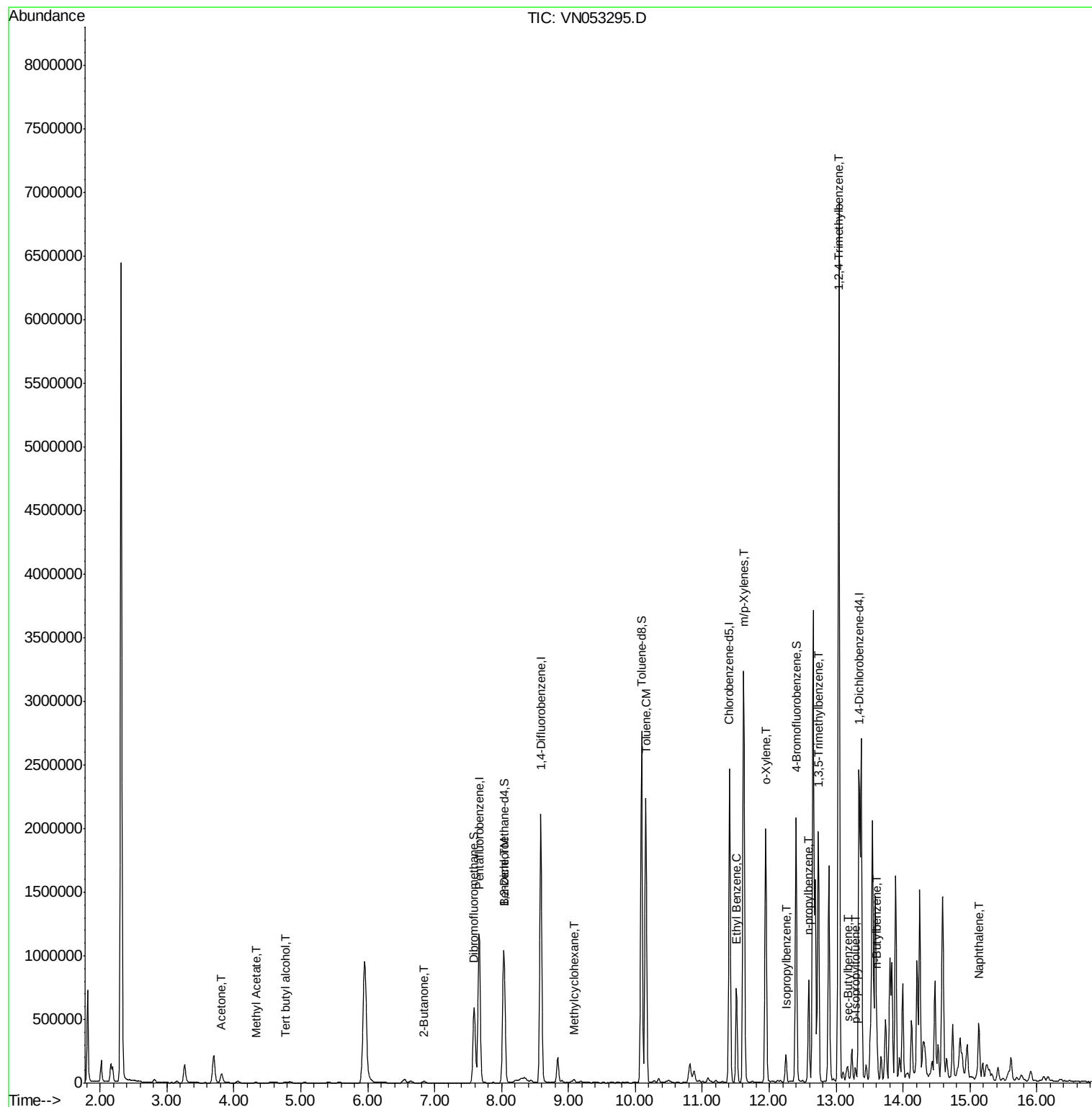
Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN010719\  
Data File : VN053295.D  
Acq On : 7 Jan 2019 11:00  
Operator : MD\SY  
Sample : K1061-01  
Misc : 5.00mL/MSVOA N/WATER  
ALS Vial : 4 Sample Multiplier: 28

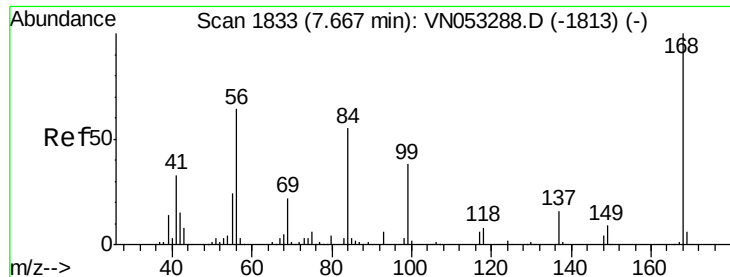
Instrument :  
MSVOA\_N  
ClientSampleId :  
TRE-COMP-1

Manual Integrations  
APPROVED

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1/8/2019 9:24:57 AM

Quant Time: Jan 08 01:37:16 2019  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N010519W.M  
Quant Title : SW846 8260  
QLast Update : Mon Jan 07 09:34:27 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: VN053295.D

Acq: 7 Jan 2019 11:00

Instrument :

MSVOA\_N

ClientSampled :

TRE-COMP-1

Tot Ion:168 Resp: 1034342

Ion Ratio Lower Upper

168 100

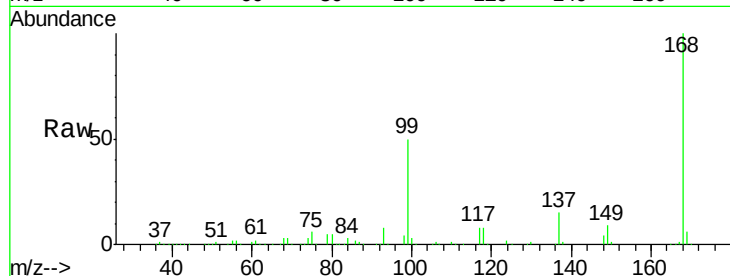
99 49.6 39.1 58.7

Manual Integrations

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MMDadoda

1/8/2019 9:24:57 AM



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.67

400000

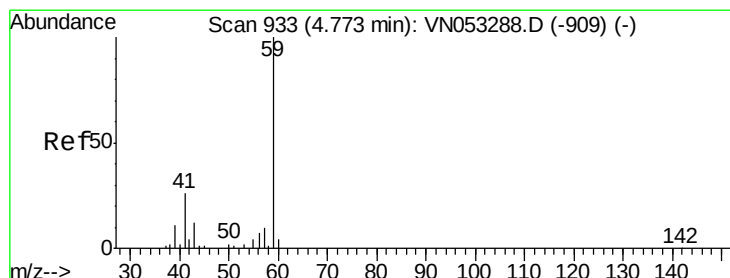
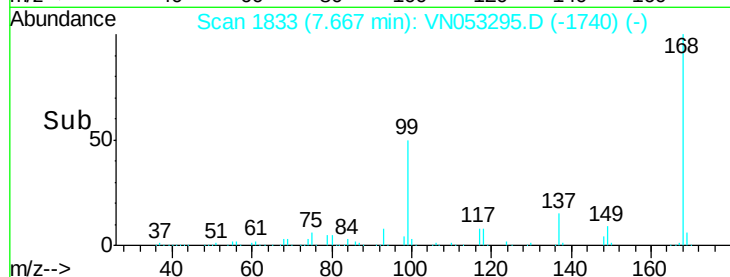
300000

200000

100000

0

Time-->



#11

Tert butyl alcohol

Concen: 27.781 ug/l

RT: 4.78 min Scan# 936

Delta R.T. 0.01 min

Lab File: VN053295.D

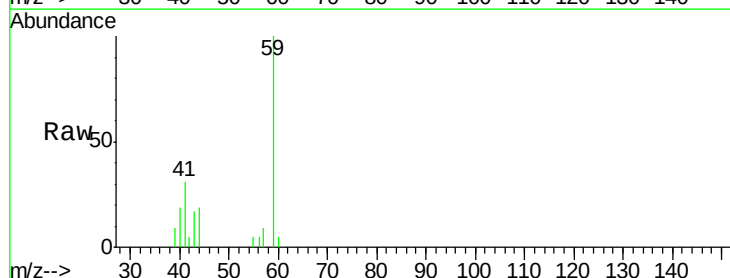
Acq: 7 Jan 2019 11:00

Tgt Ion: 59 Resp: 17981

Ion Ratio Lower Upper

59 100

57 6.6 8.0 12.0#



Abundance Ion 59.00 (58.70 to 59.70): VNO

Ion 57.00 (56.70 to 57.70): VNO

4.78

5000

4000

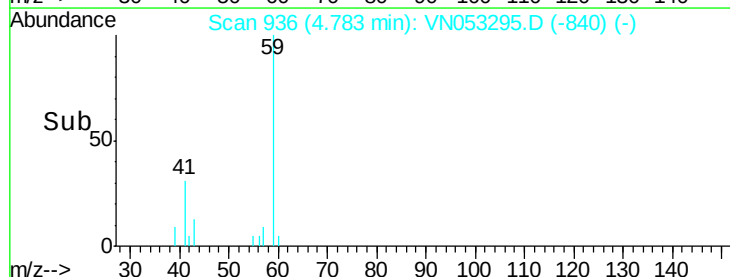
3000

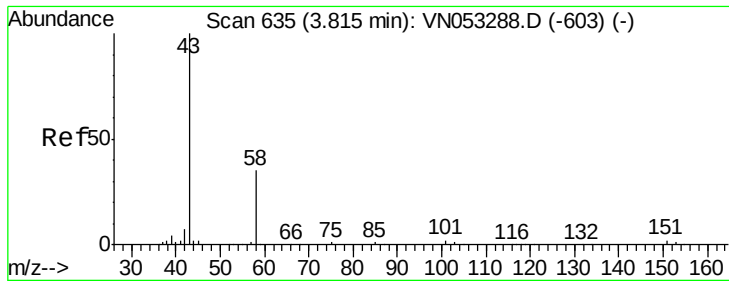
2000

1000

0

Time-->





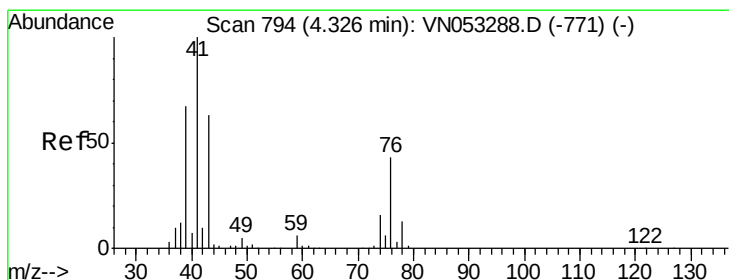
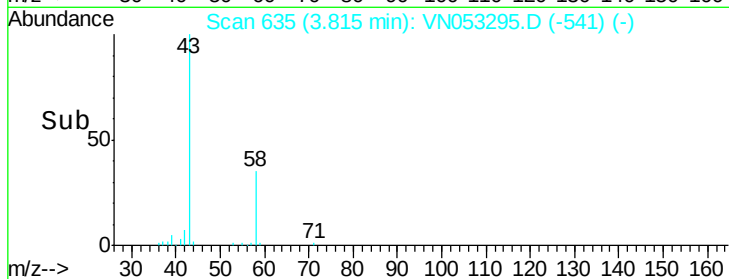
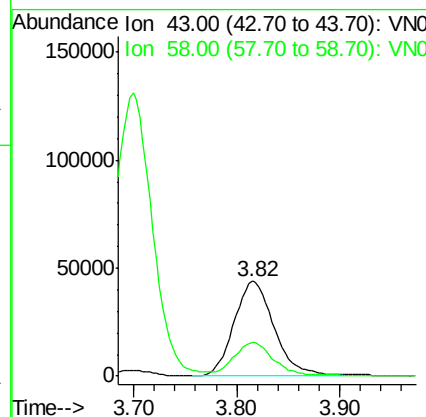
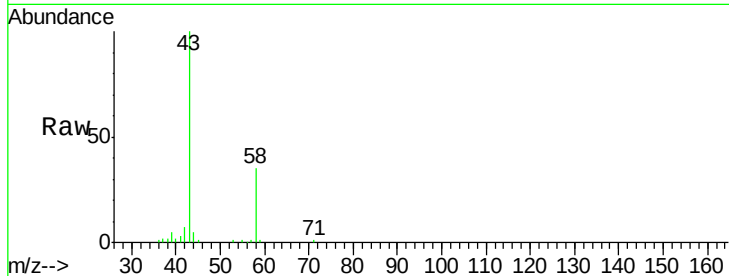
#16  
Acetone  
Concen: 43.519 ug/l  
RT: 3.82 min Scan# 635  
Delta R.T. 0.00 min  
Lab File: VN053295.D  
Acq: 7 Jan 2019 11:00

Instrument :  
MSVOA\_N  
ClientSampled :  
TRE-COMP-1

Tot Ion: 43 Resp: 117490  
Ion Ratio Lower Upper  
43 100  
58 34.7 27.8 41.6

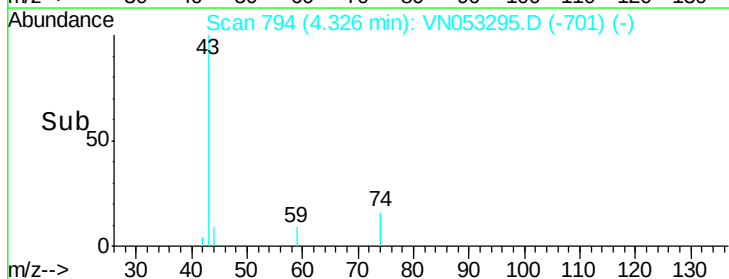
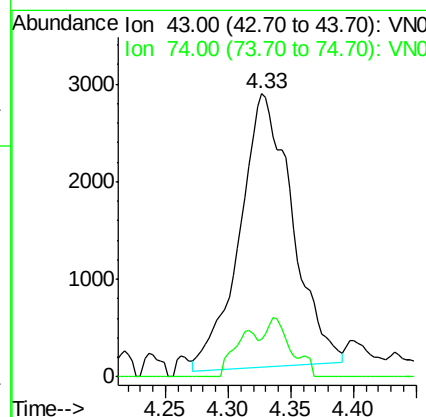
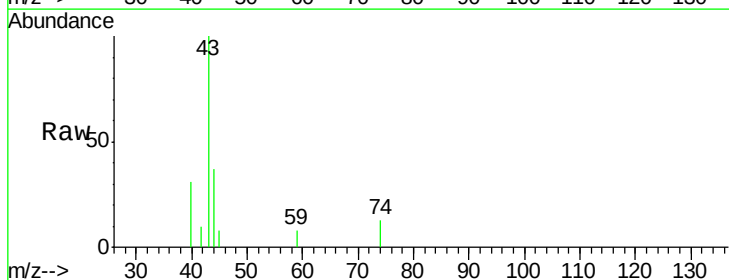
Manual Integrations  
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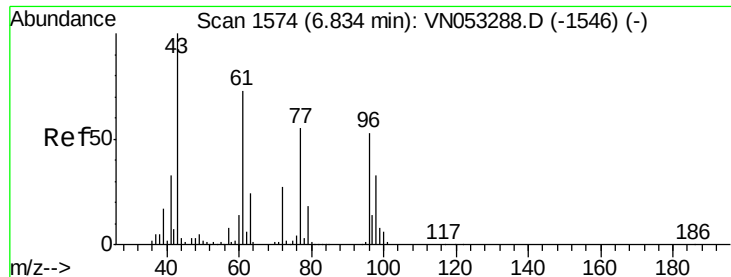
MMDadoda  
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#18  
Methyl Acetate  
Concen: 0.838 ug/l  
RT: 4.33 min Scan# 794  
Delta R.T. 0.00 min  
Lab File: VN053295.D  
Acq: 7 Jan 2019 11:00

Tgt Ion: 43 Resp: 8160  
Ion Ratio Lower Upper  
43 100  
74 5.7 19.8 29.8#





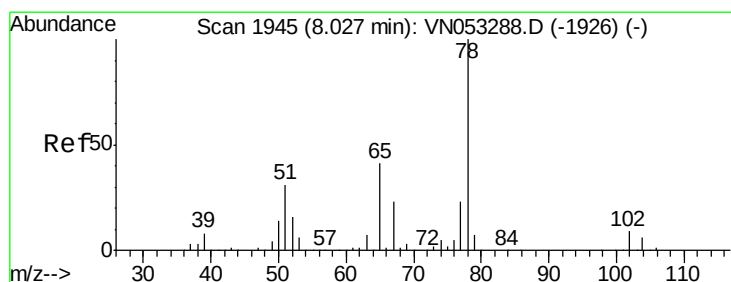
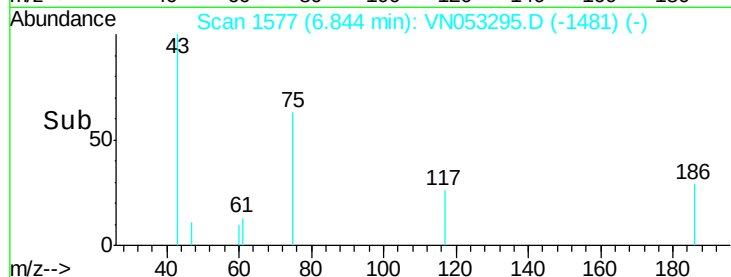
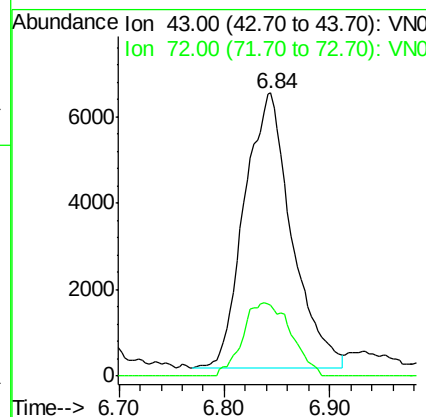
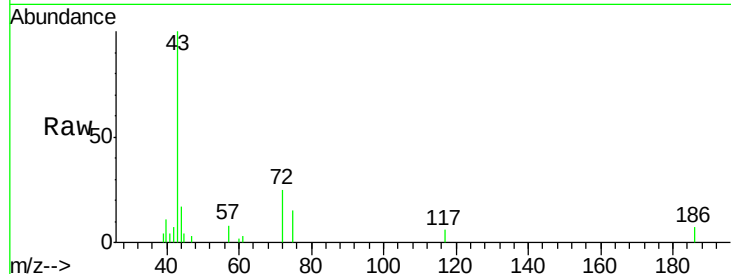
#25  
2-Butanone  
Concen: 4.496 ug/l  
RT: 6.84 min Scan# 1577  
Delta R.T. 0.01 min  
Lab File: VN053295.D  
Acq: 7 Jan 2019 11:00

Instrument :  
MSVOA\_N  
ClientSampleId :  
TRE-COMP-1

Tot Ion: 43 Resp: 19851  
Ion Ratio Lower Upper  
43 100  
72 25.8 22.0 33.0

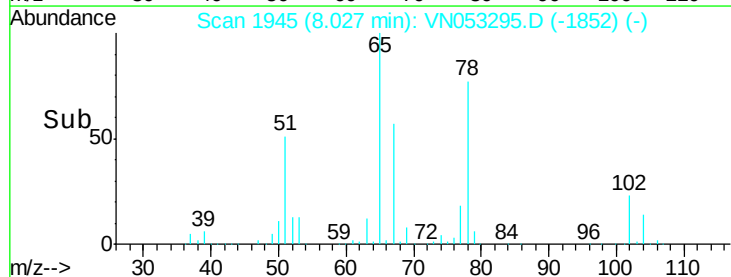
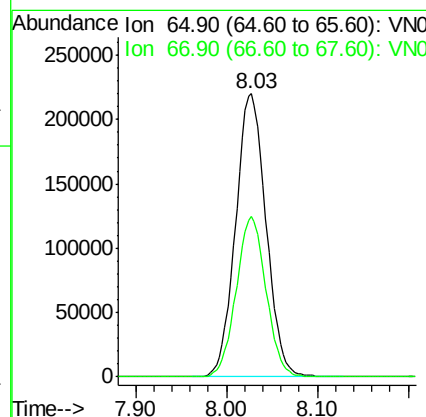
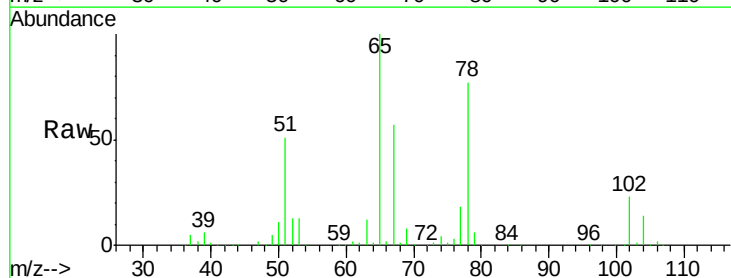
Manual Integrations  
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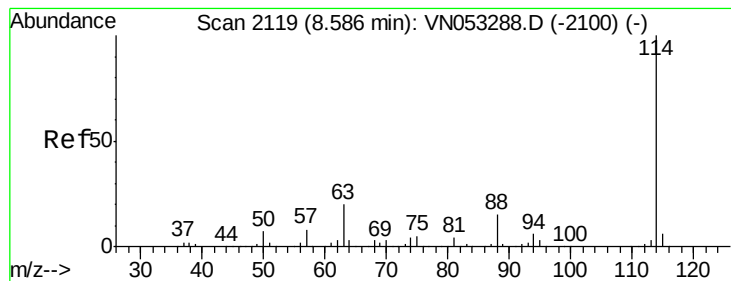
MMDadoda  
1/8/2019 9:24:57 AM



#33  
1,2-Dichloroethane-d4  
Concen: N.D. ug/l  
RT: 8.03 min Scan# 1945  
Delta R.T. 0.00 min  
Lab File: VN053295.D  
Acq: 7 Jan 2019 11:00

Tgt Ion: 65 Resp: 510958  
Ion Ratio Lower Upper  
65 100  
67 55.6 0.0 111.0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.59 min Scan# 2119

Delta R.T. 0.00 min

Lab File: VN053295.D

Acq: 7 Jan 2019 11:00

Instrument :

MSVOA\_N

ClientSampleId :

TRE-COMP-1

Tot Ion:114 Resp: 1604270

Ion Ratio Lower Upper

114 100

63 19.5 0.0 39.0

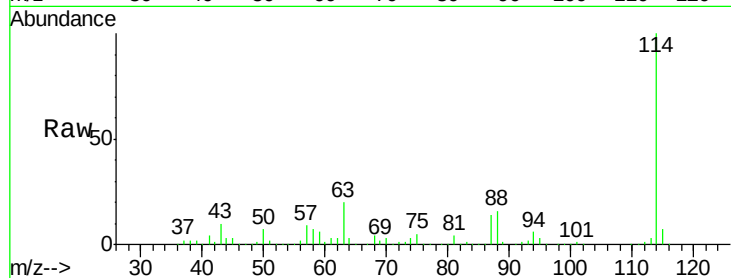
88 15.7 0.0 30.8

Manual Integrations

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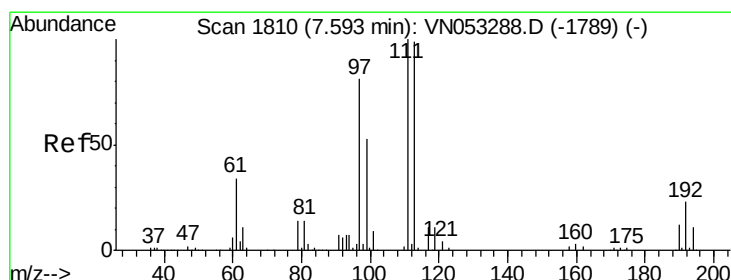
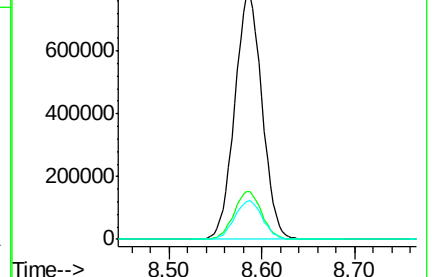
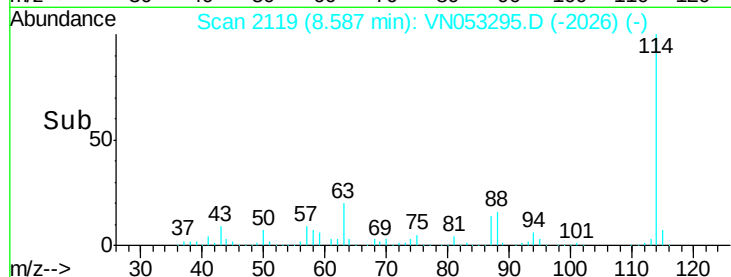
1/8/2019 9:24:57 AM



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VN0

Ion 87.90 (87.60 to 88.60): VN0



#35

Dibromofluoromethane

Concen: 50.000 ug/l

RT: 7.59 min Scan# 1809

Delta R.T. -0.00 min

Lab File: VN053295.D

Acq: 7 Jan 2019 11:00

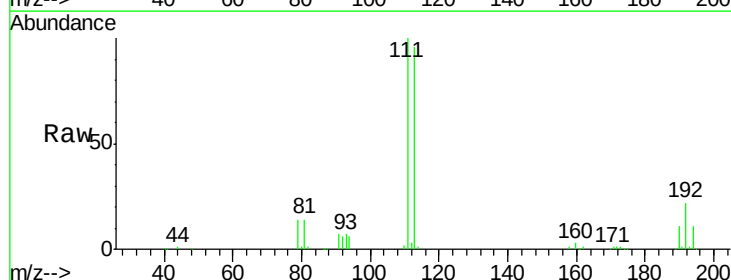
Tgt Ion:113 Resp: 460505

Ion Ratio Lower Upper

113 100

111 103.4 81.4 122.2

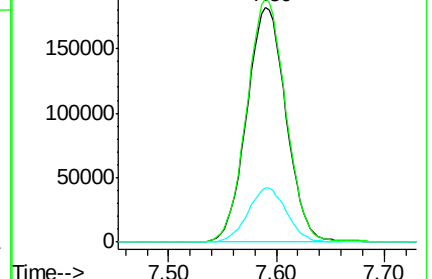
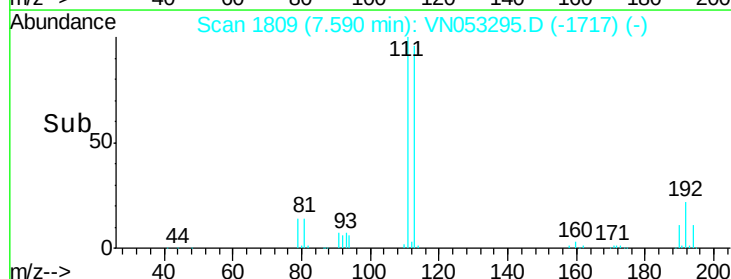
192 22.8 17.9 26.9

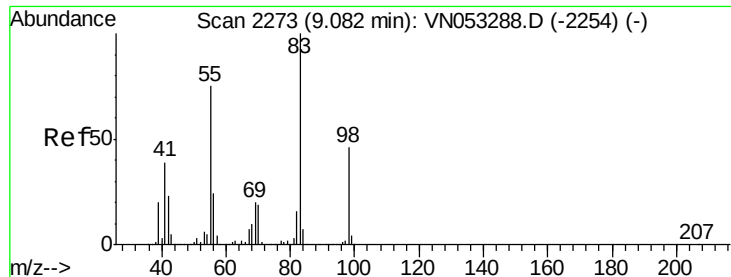


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





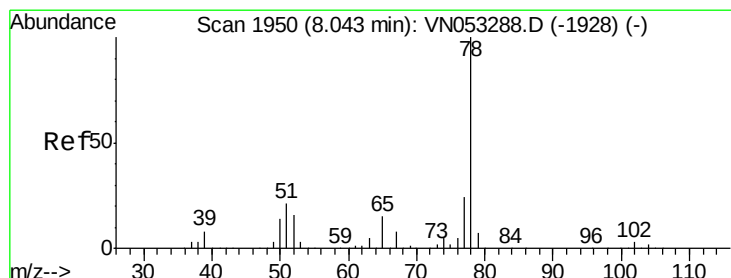
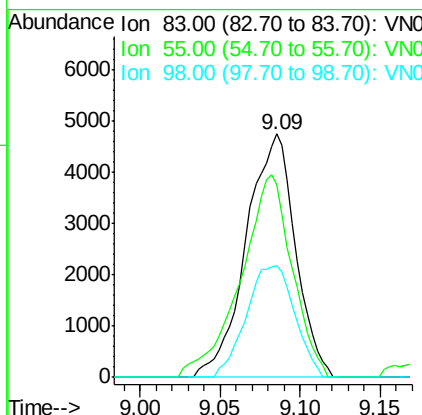
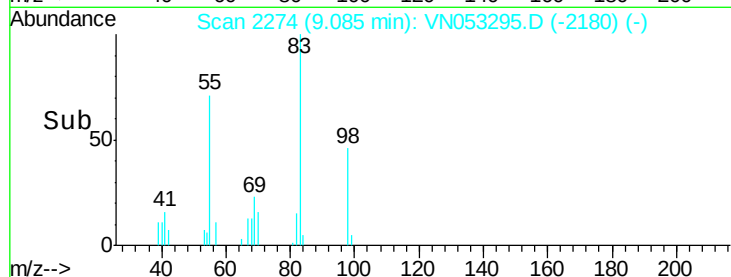
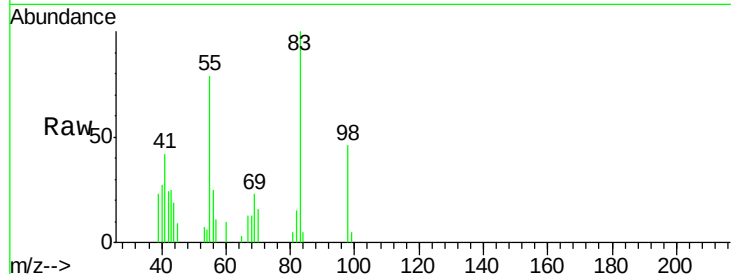
#39  
Methylvlcyclohexane  
Concen: 0.576 ug/l  
RT: 9.09 min Scan# 2274  
Delta R.T. 0.00 min  
Lab File: VN053295.D  
Acq: 7 Jan 2019 11:00

Instrument :  
MSVOA\_N  
ClientSampleId :  
TRE-COMP-1

| Tot Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 83      | 100   | 9999 |       |       |
| 55      | 78.8  |      | 60.1  | 90.1  |
| 98      | 45.9  |      | 36.7  | 55.1  |

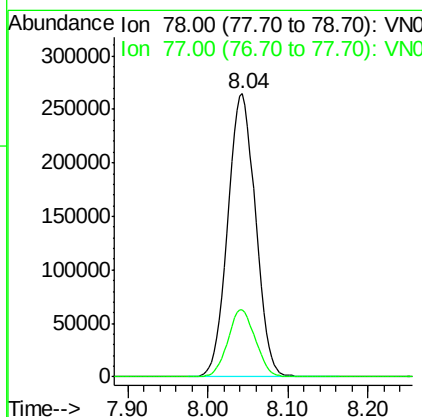
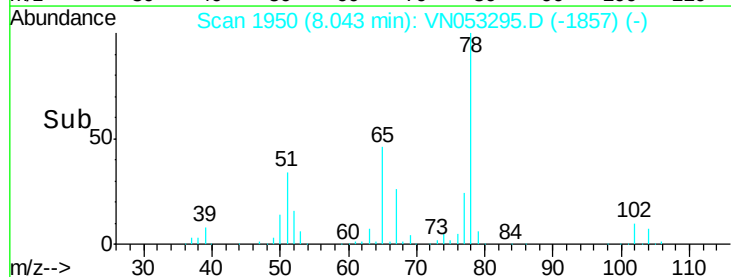
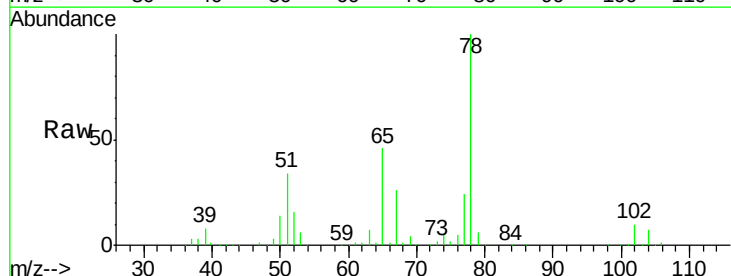
Manual Integrations  
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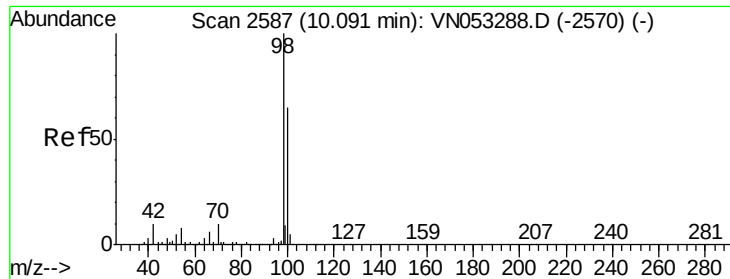
MMDadoda  
1/8/2019 9:24:57 AM



#40  
Benzene  
Concen: 13.639 ug/l  
RT: 8.04 min Scan# 1950  
Delta R.T. 0.00 min  
Lab File: VN053295.D  
Acq: 7 Jan 2019 11:00

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 78      | 100   | 623958 |       |       |
| 77      | 23.9  |        | 19.0  | 28.4  |





#50

Toluene-d8

Concen: N.D. ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN053295.D

Acq: 7 Jan 2019 11:00

Instrument :

MSVOA\_N

ClientSampleId :

TRE-COMP-1

Tot Ion: 98 Resp: 1980030

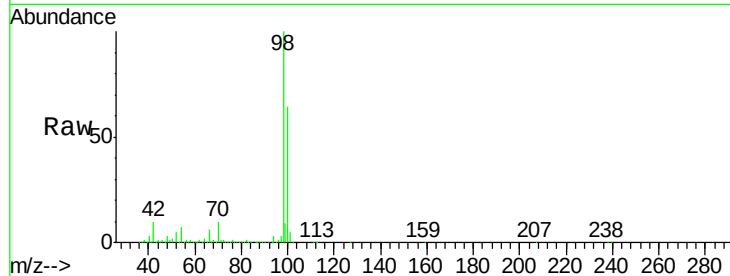
Ion Ratio Lower Upper

98 100

100 64.5 51.5 77.3

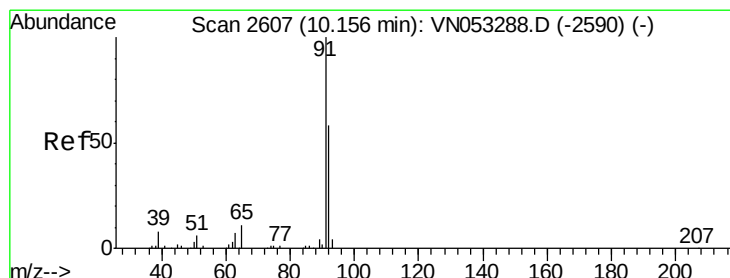
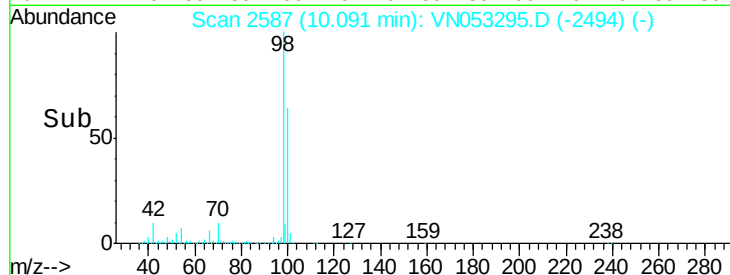
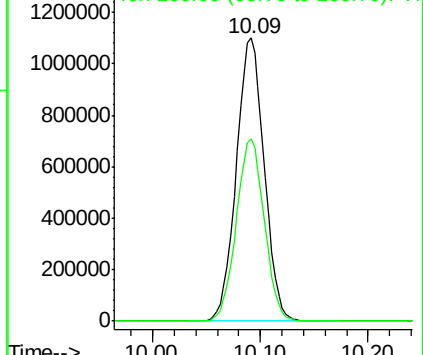
Manual Integrations  
APPROVED

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1/8/2019 9:24:57 AM



Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN



#52

Toluene

Concen: 35.707 ug/l

RT: 10.16 min Scan# 2607

Delta R.T. 0.00 min

Lab File: VN053295.D

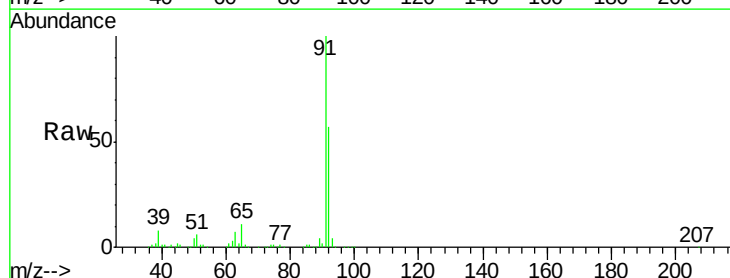
Acq: 7 Jan 2019 11:00

Tgt Ion: 92 Resp: 1002170

Ion Ratio Lower Upper

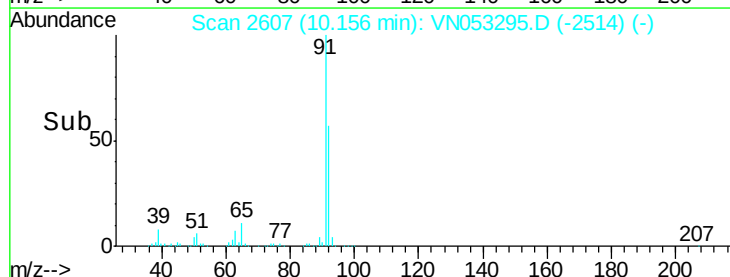
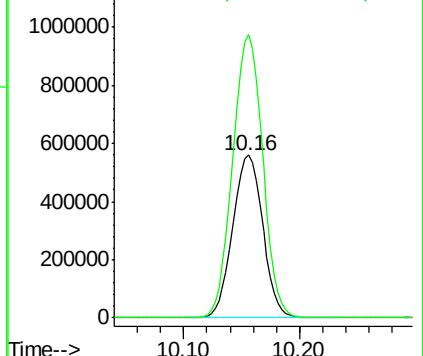
92 100

91 174.5 138.6 208.0

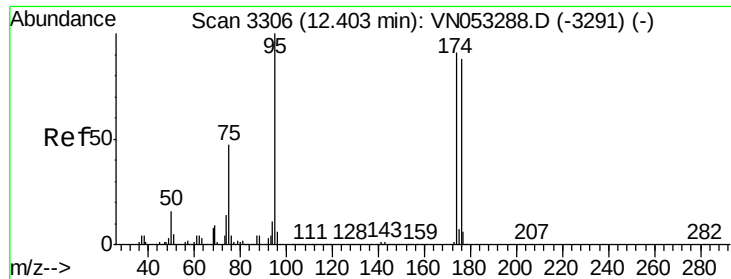


Abundance Ion 92.00 (91.70 to 92.70): VN0

Ion 91.00 (90.70 to 91.70): VN0







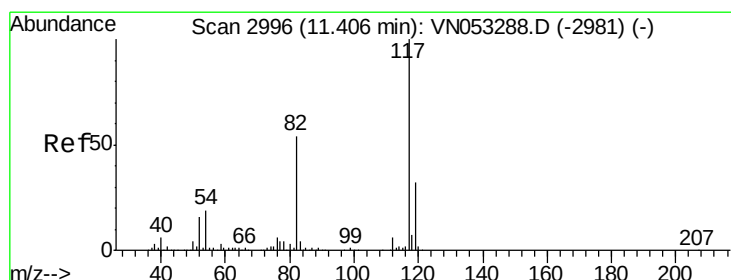
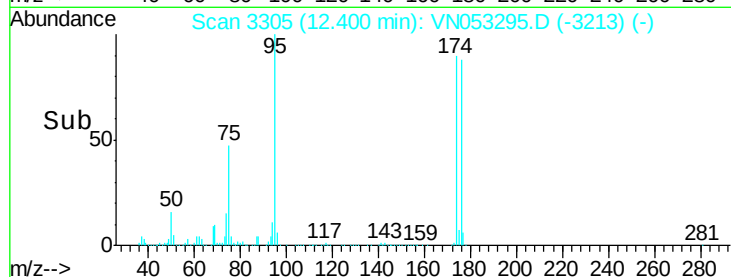
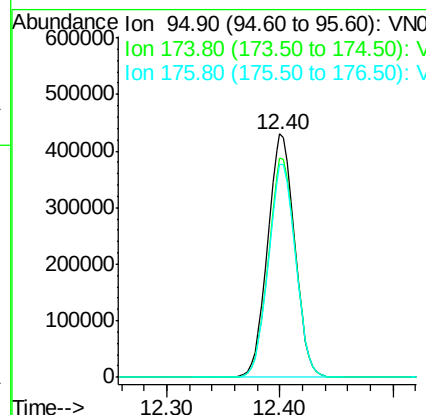
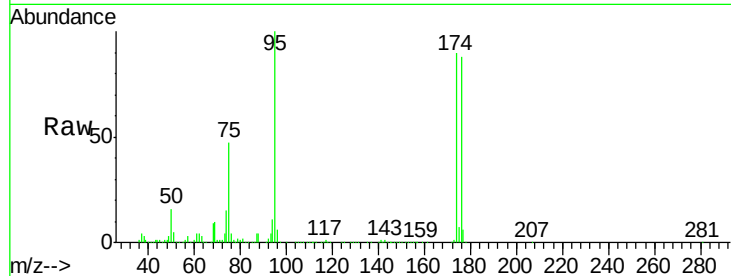
#62  
4-Bromofluorobenzene  
Concen: Below ug/l  
RT: 12.40 min Scan# 3305  
Delta R.T. -0.00 min  
Lab File: VN053295.D  
Acq: 7 Jan 2019 11:00

Instrument :  
MSVOA\_N  
ClientSampleId :  
TRE-COMP-1

| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 95      | 100   | 713401 |       |       |
| 174     | 90.0  | 0.0    | 180.4 |       |
| 176     | 87.9  | 0.0    | 175.6 |       |

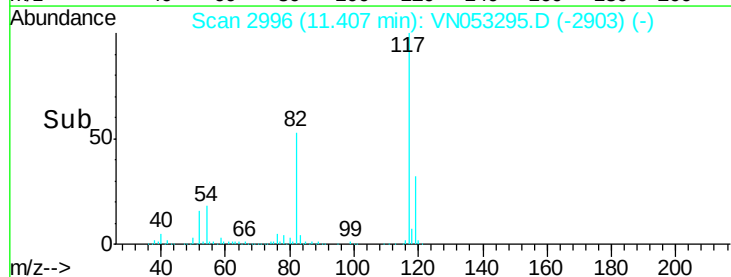
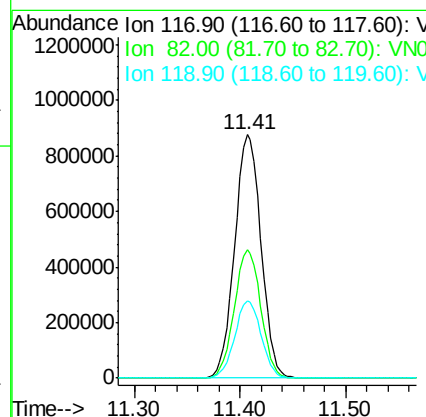
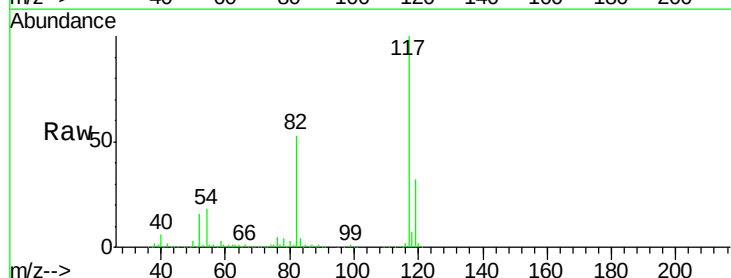
Manual Integrations  
APPROVED

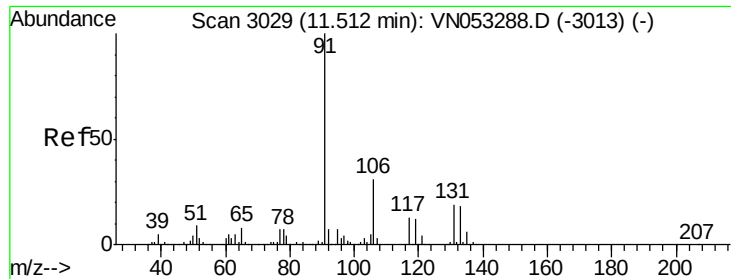
MMDadoda  
1/8/2019 9:24:57 AM



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.41 min Scan# 2996  
Delta R.T. 0.00 min  
Lab File: VN053295.D  
Acq: 7 Jan 2019 11:00

| Tgt Ion | Ratio | Resp    | Lower | Upper |
|---------|-------|---------|-------|-------|
| 117     | 100   | 1511407 |       |       |
| 82      | 52.8  | 42.9    | 64.3  |       |
| 119     | 31.9  | 25.6    | 38.4  |       |





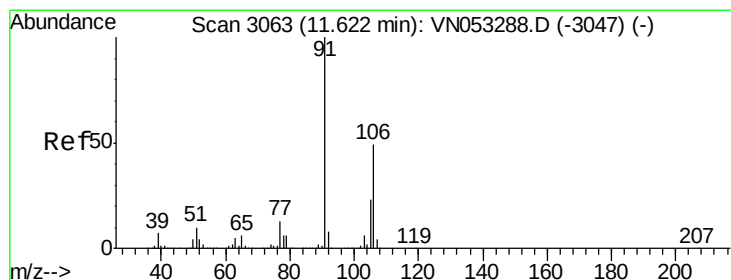
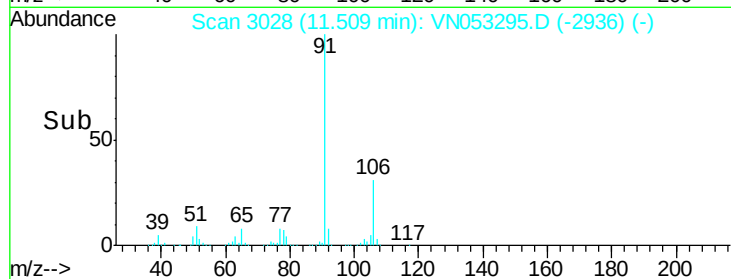
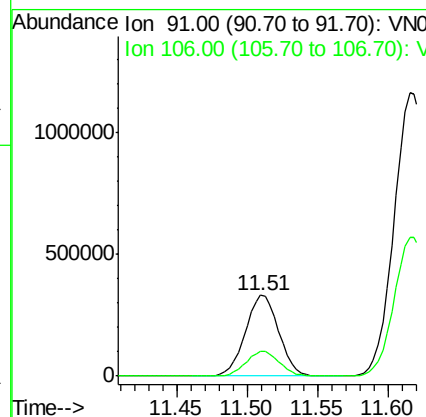
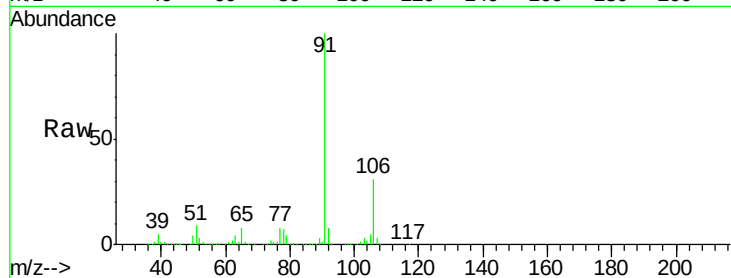
#67  
Ethyl Benzene  
Concen: 9.855 ug/l  
RT: 11.51 min Scan# 3028  
Delta R.T. -0.00 min  
Lab File: VN053295.D  
Acq: 7 Jan 2019 11:00

Instrument :  
MSVOA\_N  
ClientSampled :  
TRE-COMP-1

Tot Ion: 91 Resp: 549825  
Ion Ratio Lower Upper  
91 100  
106 30.7 25.0 37.4

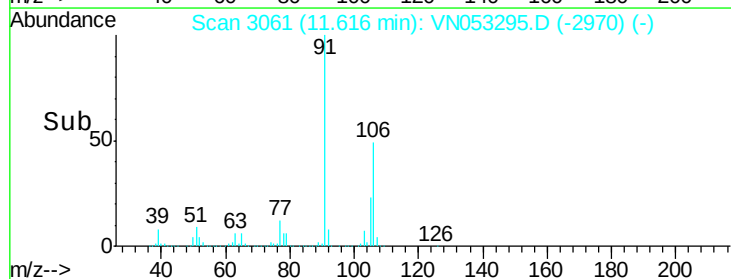
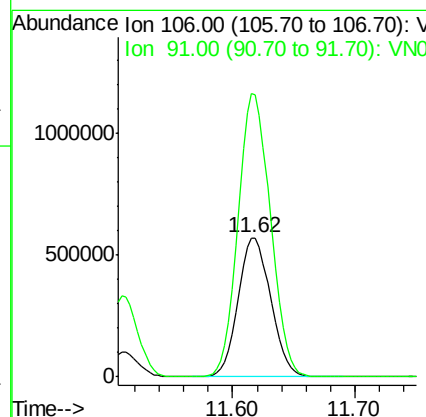
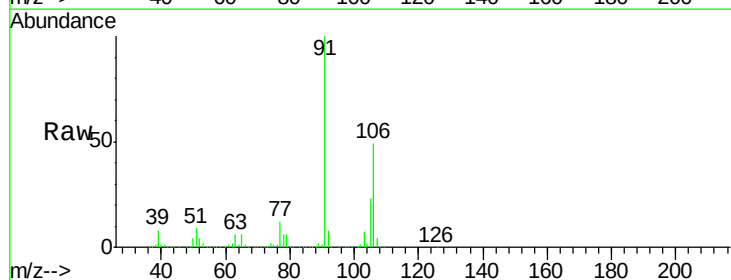
Manual Integrations  
APPROVED

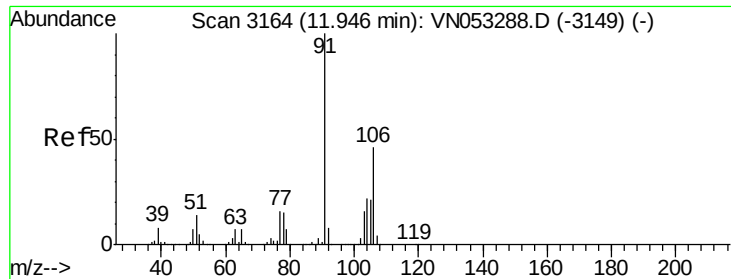
MMDadoda  
1/8/2019 9:24:57 AM



#68  
m/p-Xylenes  
Concen: 50.247 ug/l  
RT: 11.62 min Scan# 3061  
Delta R.T. -0.01 min  
Lab File: VN053295.D  
Acq: 7 Jan 2019 11:00

Tgt Ion: 106 Resp: 1054125  
Ion Ratio Lower Upper  
106 100  
91 202.7 161.4 242.2





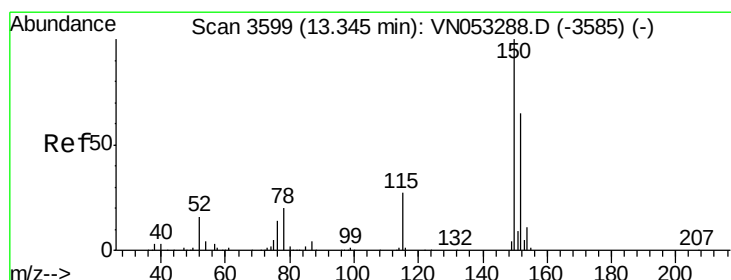
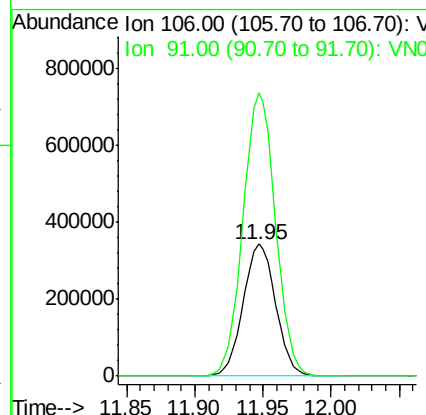
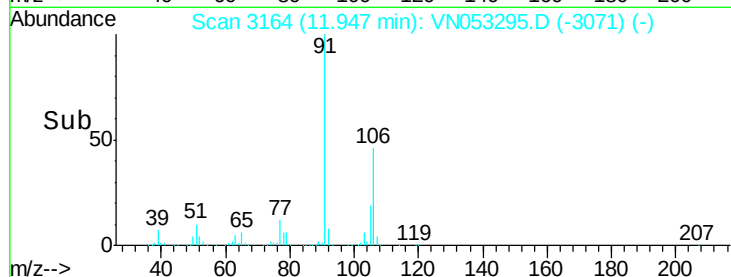
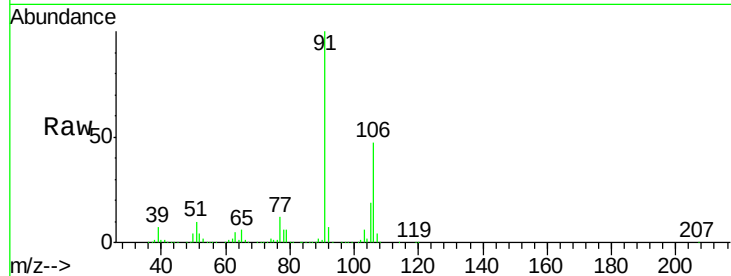
#69  
o-Xylene  
Concen: 27.615 ug/l  
RT: 11.95 min Scan# 3164  
Delta R.T. 0.00 min  
Lab File: VN053295.D  
Acq: 7 Jan 2019 11:00

Instrument :  
MSVOA\_N  
ClientSampled :  
TRE-COMP-1

Tot Ion:106 Resp: 567179  
Ion Ratio Lower Upper  
106 100  
91 214.5 106.8 320.4

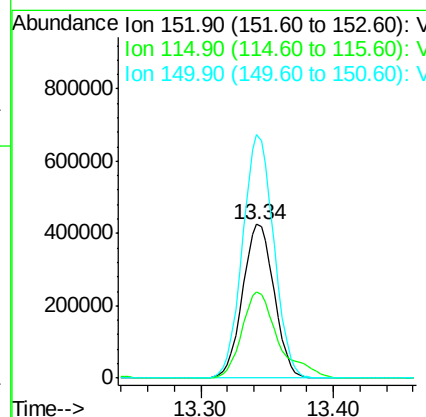
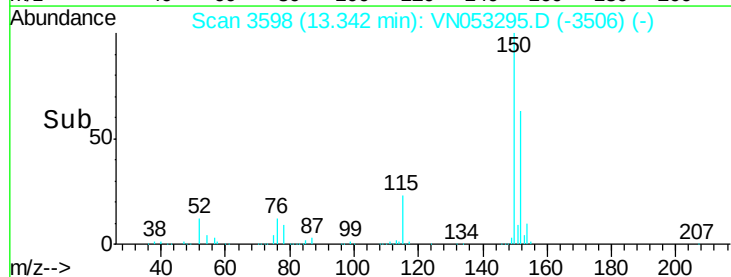
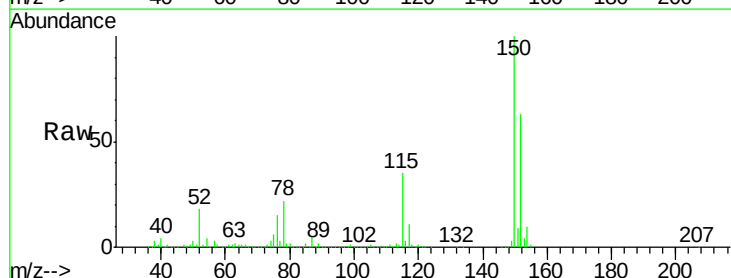
Manual Integrations  
APPROVED

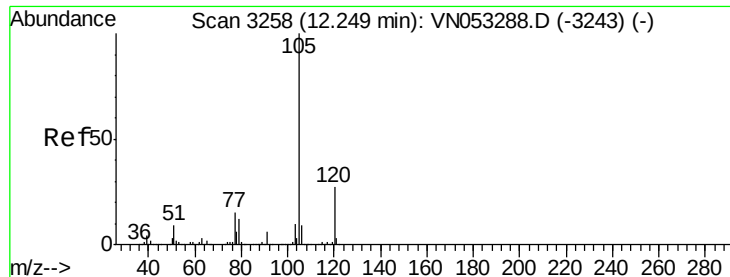
MMDadoda  
1/8/2019 9:24:57 AM



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.34 min Scan# 3598  
Delta R.T. -0.00 min  
Lab File: VN053295.D  
Acq: 7 Jan 2019 11:00

Tgt Ion:152 Resp: 699225  
Ion Ratio Lower Upper  
152 100  
115 64.1 28.0 84.0  
150 157.5 0.0 346.6





#73

Isopropylbenzene

Concen: 2.845 ug/l

RT: 12.25 min Scan# 3258

Delta R.T. 0.00 min

Lab File: VN053295.D

Acq: 7 Jan 2019 11:00

Instrument :

MSVOA\_N

ClientSampled :

TRE-COMP-1

Tot Ion:105 Resp: 148127

Ion Ratio Lower Upper

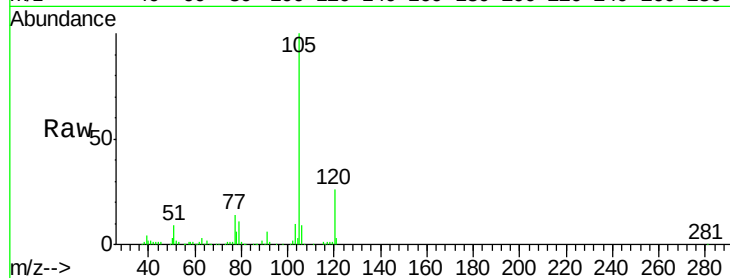
105 100

120 27.2 13.4 40.2

Manual Integrations  
APPROVED

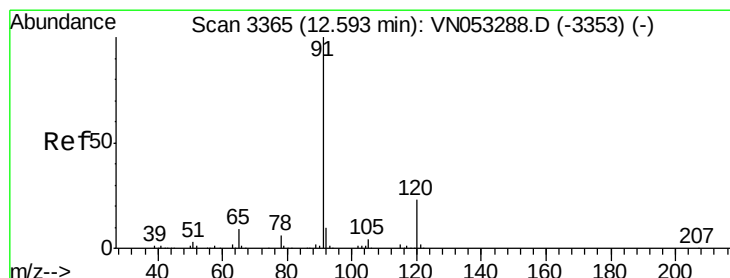
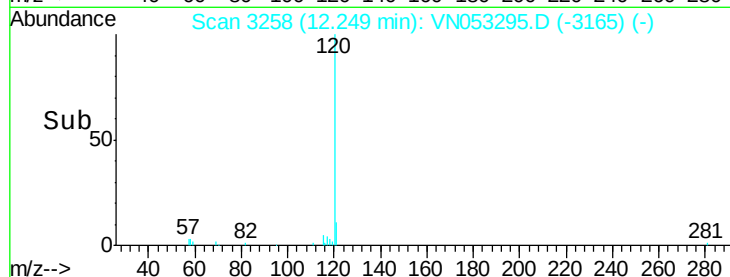
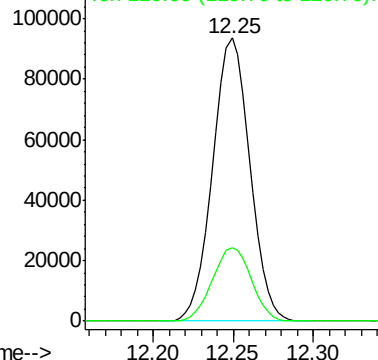
MMDadoda

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Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#78

n-propylbenzene

Concen: 11.042 ug/l

RT: 12.59 min Scan# 3364

Delta R.T. -0.00 min

Lab File: VN053295.D

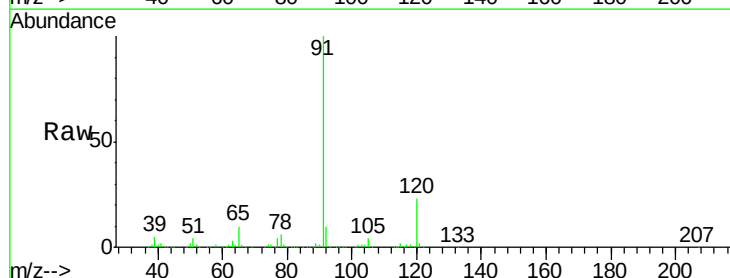
Acq: 7 Jan 2019 11:00

Tgt Ion: 91 Resp: 650219

Ion Ratio Lower Upper

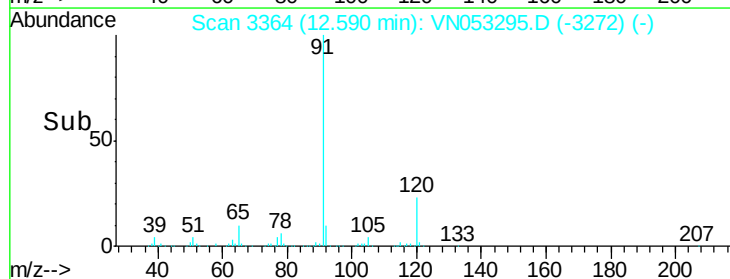
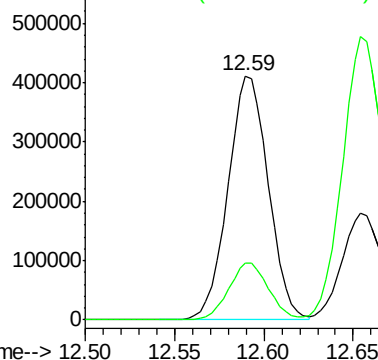
91 100

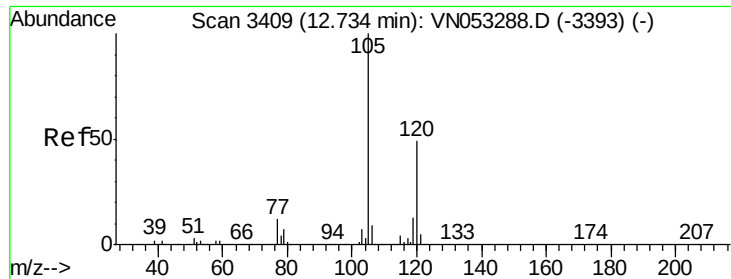
120 23.2 11.5 34.5



Abundance Ion 91.00 (90.70 to 91.70): V

Ion 120.00 (119.70 to 120.70): V





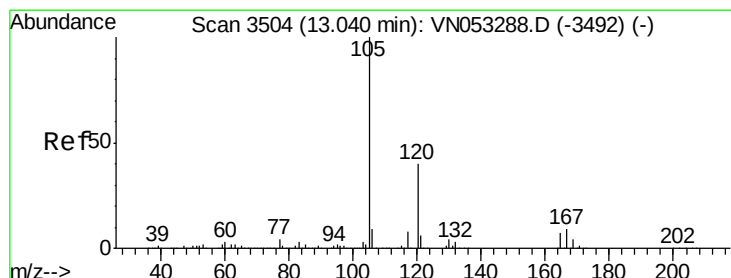
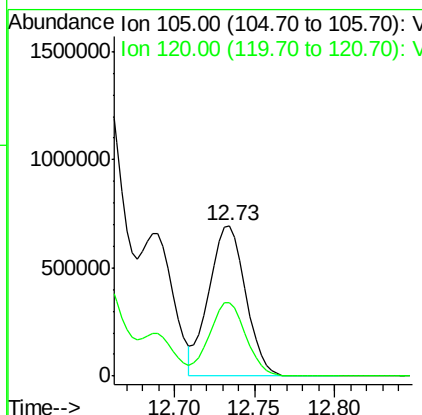
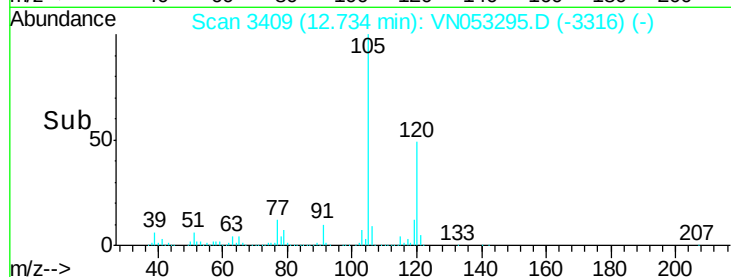
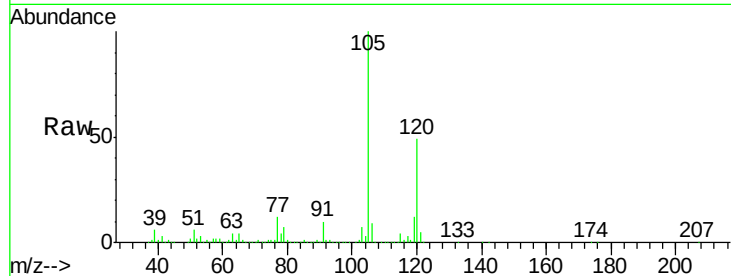
#80  
 1,3,5-Trimethylbenzene  
 Concen: 26.370 ug/l  
 RT: 12.73 min Scan# 3409  
 Delta R.T. 0.00 min  
 Lab File: VN053295.D  
 Acq: 7 Jan 2019 11:00

Instrument :  
 MSVOA\_N  
 ClientSampled :  
 TRE-COMP-1

Tot Ion:105 Resp: 1105797  
 Ion Ratio Lower Upper  
 105 100  
 120 48.6 24.7 74.1

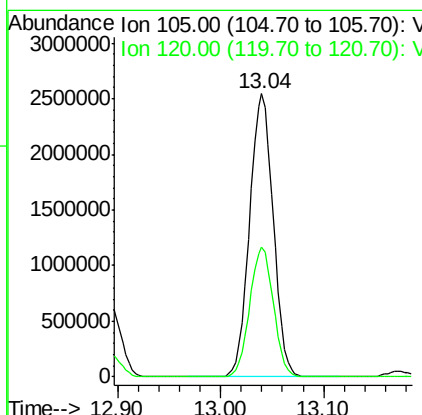
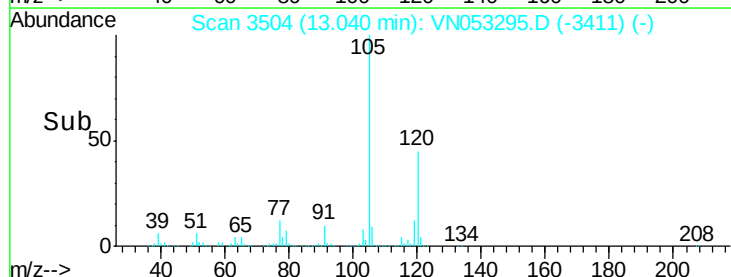
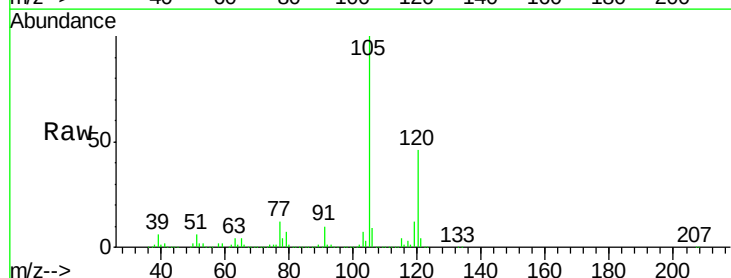
Manual Integrations  
 APPROVED

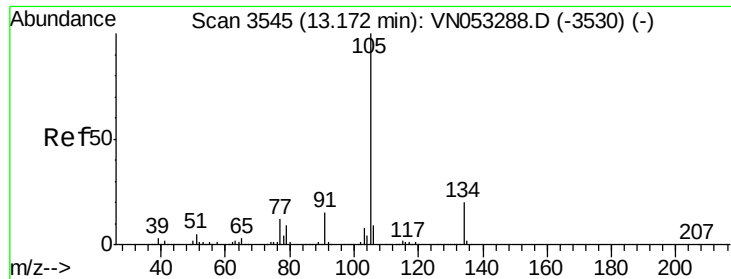
MMDadoda  
 1/8/2019 9:24:57 AM



#84  
 1,2,4-Trimethylbenzene  
 Concen: 94.020 ug/l  
 RT: 13.04 min Scan# 3504  
 Delta R.T. 0.00 min  
 Lab File: VN053295.D  
 Acq: 7 Jan 2019 11:00

Tgt Ion:105 Resp: 4016571  
 Ion Ratio Lower Upper  
 105 100  
 120 46.0 23.0 69.0





#85

sec-Butylbenzene

Concen: 1.683 ug/l m

RT: 13.17 min Scan# 3545

Delta R.T. 0.00 min

Lab File: VN053295.D

Acq: 7 Jan 2019 11:00

Instrument :

MSVOA\_N

ClientSampled :

TRE-COMP-1

Tot Ion:105 Resp: 81645

Ion Ratio Lower Upper

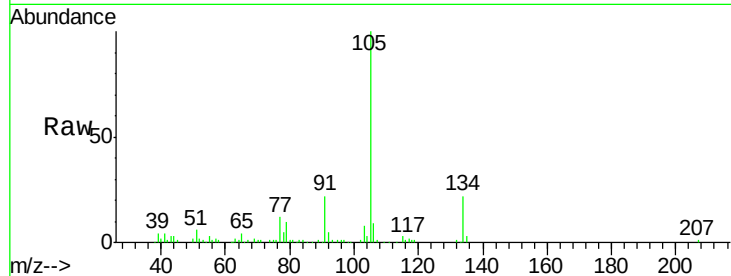
105 100

134 0.0 10.2 30.6#

Manual Integrations  
APPROVED

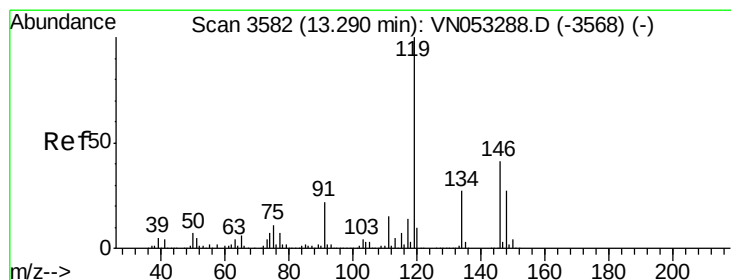
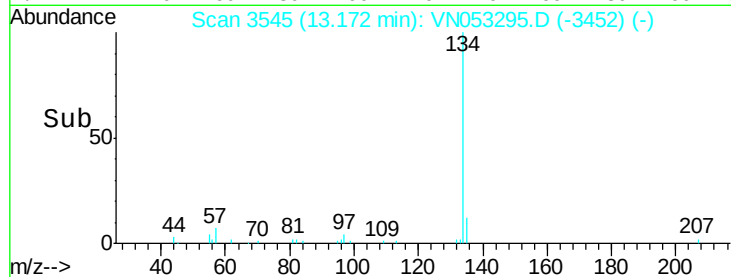
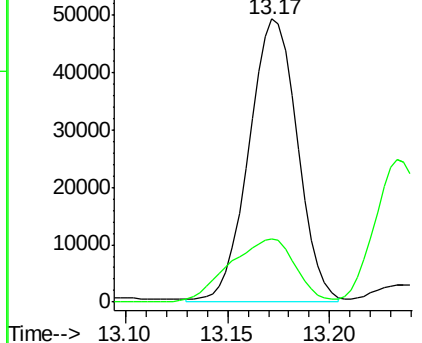
MMDadoda

1/8/2019 9:24:57 AM



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V



#86

p-Isopropyltoluene

Concen: 1.308 ug/l

RT: 13.29 min Scan# 3581

Delta R.T. -0.00 min

Lab File: VN053295.D

Acq: 7 Jan 2019 11:00

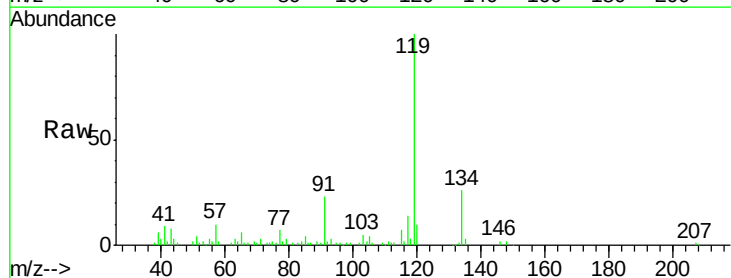
Tgt Ion:119 Resp: 54966

Ion Ratio Lower Upper

119 100

134 25.9 13.4 40.1

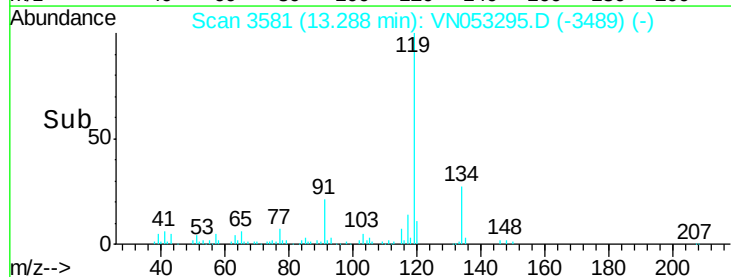
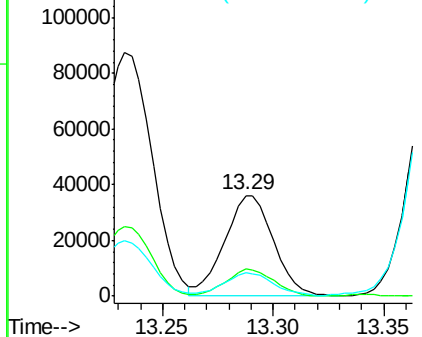
91 21.3 11.1 33.1

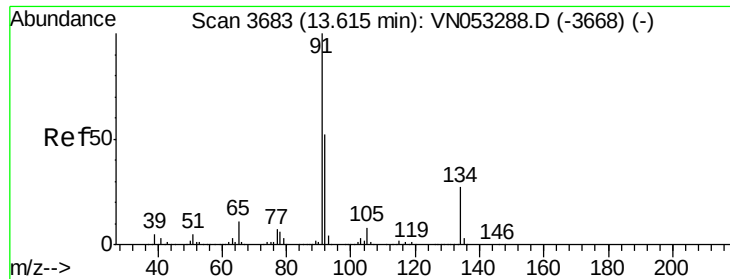


Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): V





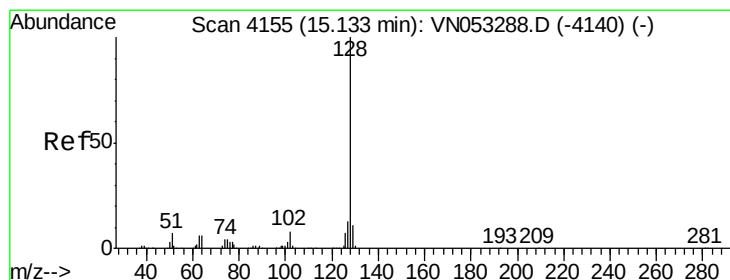
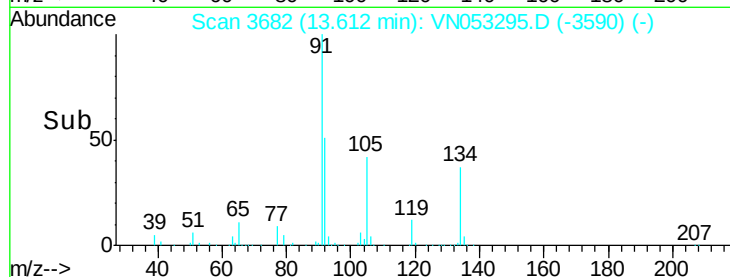
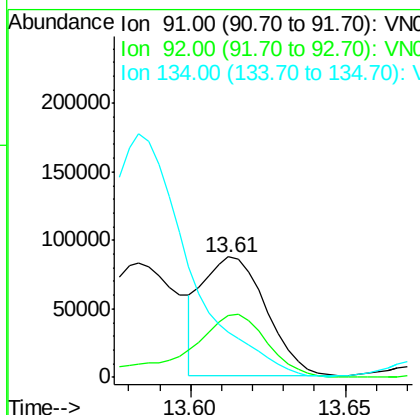
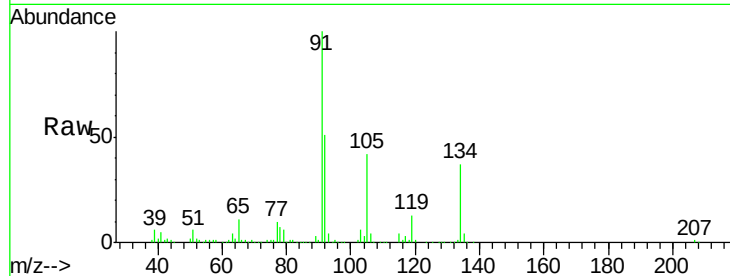
#89  
n-Butylbenzene  
Concen: 3.521 ug/l  
RT: 13.61 min Scan# 3682  
Delta R.T. -0.00 min  
Lab File: VN053295.D  
Acq: 7 Jan 2019 11:00

Instrument :  
MSVOA\_N  
ClientSampled :  
TRE-COMP-1

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 91      | 100   |       |       |
| 92      | 67.1  | 26.3  | 78.8  |
| 134     | 0.0   | 13.5  | 40.5# |

Manual Integrations  
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#95  
Naphthalene  
Concen: 31.401 ug/l  
RT: 15.13 min Scan# 4155  
Delta R.T. 0.00 min  
Lab File: VN053295.D  
Acq: 7 Jan 2019 11:00

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 128     | 100   |       |       |
| 127     | 12.8  | 10.4  | 15.6  |
| 129     | 11.0  | 8.7   | 13.1  |

