

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN061019\  
 Data File : VN056161.D  
 Acq On : 10 Jun 2019 11:37  
 Operator : JC/SP  
 Sample : I.BLK  
 Misc : 5.00mL/MSVOA N/WATER  
 ALS Vial : 7 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 I.BLK

Quant Time: Jun 11 02:18:22 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N060419W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Jun 04 11:02:09 2019  
 Response via : Initial Calibration

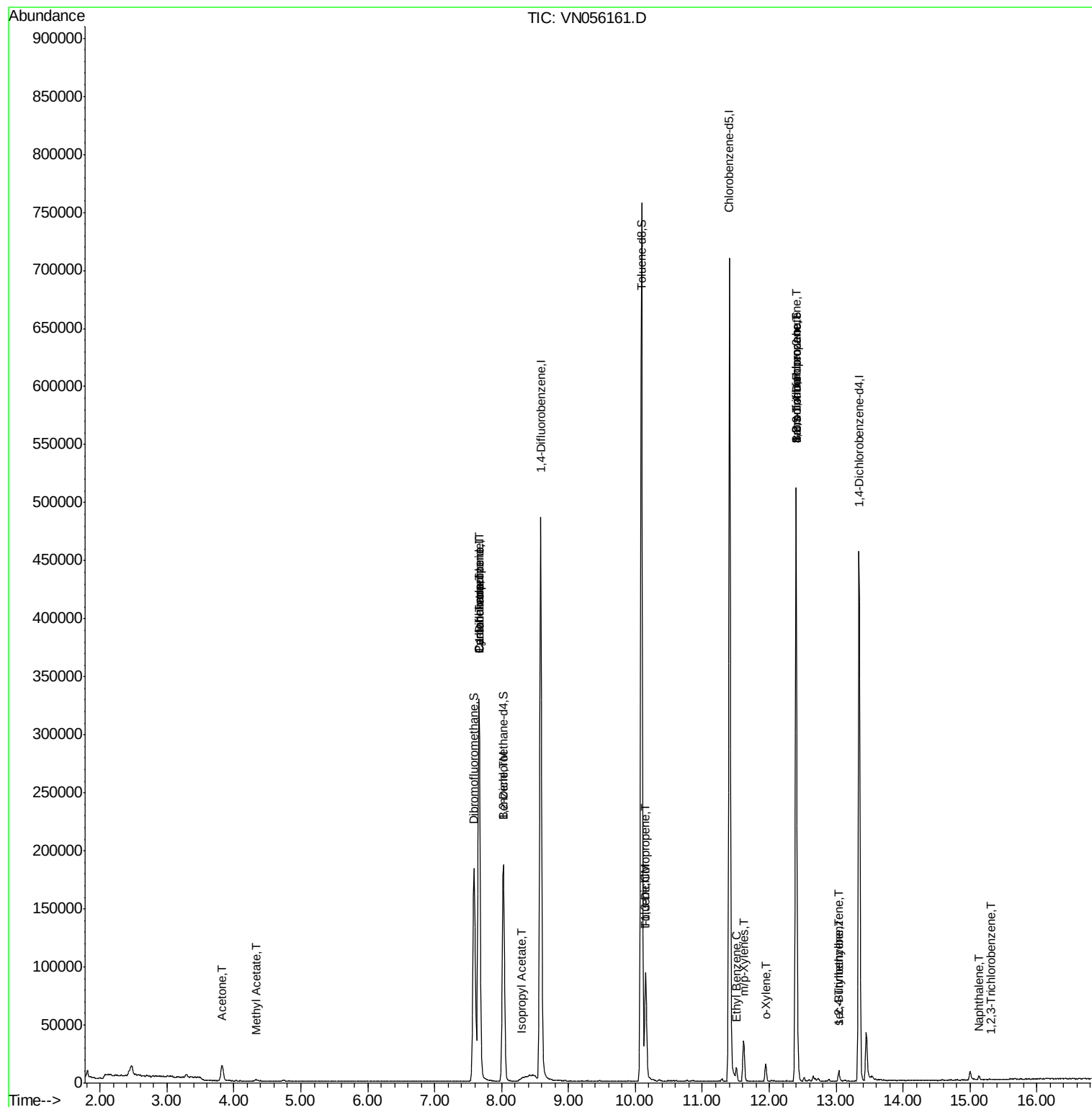
| Internal Standards             | R.T.   | QIon | Response | Conc      | Units   | Dev(Min) |
|--------------------------------|--------|------|----------|-----------|---------|----------|
| 1) Pentafluorobenzene          | 7.66   | 168  | 310116   | 50.00     | ug/l    | 0.00     |
| 34) 1,4-Difluorobenzene        | 8.58   | 114  | 473426   | 50.00     | ug/l    | 0.00     |
| 63) Chlorobenzene-d5           | 11.41  | 117  | 454639   | 50.00     | ug/l    | 0.00     |
| 72) 1,4-Dichlorobenzene-d4     | 13.34  | 152  | 142740   | 50.00     | ug/l    | 0.00     |
| System Monitoring Compounds    |        |      |          |           |         |          |
| 33) 1,2-Dichloroethane-d4      | 8.03   | 65   | 155135   | 50.38     | ug/l    | 0.00     |
| Spiked Amount                  | 50.000 |      | Recovery | =         | 100.76% |          |
| 35) Dibromofluoromethane       | 7.59   | 113  | 141534   | 48.73     | ug/l    | 0.00     |
| Spiked Amount                  | 50.000 |      | Recovery | =         | 97.46%  |          |
| 50) Toluene-d8                 | 10.09  | 98   | 572852   | 51.25     | ug/l    | 0.00     |
| Spiked Amount                  | 50.000 |      | Recovery | =         | 102.50% |          |
| 62) 4-Bromofluorobenzene       | 12.40  | 95   | 180551   | 47.50     | ug/l    | 0.00     |
| Spiked Amount                  | 50.000 |      | Recovery | =         | 95.00%  |          |
| Target Compounds               |        |      |          |           |         |          |
|                                |        |      |          |           | Qvalue  |          |
| 16) Acetone                    | 3.82   | 43   | 23921    | 16.243    | ug/l    | 96       |
| 18) Methyl Acetate             | 4.34   | 43   | 2803     | 0.395     | ug/l #  | 73       |
| 31) Cyclohexane                | 7.66   | 56   | 4647     | 0.951     | ug/l #  | 1        |
| 36) 1,1-Dichloropropene        | 7.66   | 75   | 18161    | 4.461     | ug/l #  | 49       |
| 38) Carbon Tetrachloride       | 7.66   | 117  | 25597    | 6.820     | ug/l #  | 14       |
| 40) Benzene                    | 8.04   | 78   | 6381     | 0.516     | ug/l    | 96       |
| 43) Isopropyl Acetate          | 8.29   | 43   | 1867     | 0.318     | ug/l #  | 53       |
| 52) Toluene                    | 10.16  | 92   | 42474    | 5.521     | ug/l    | 98       |
| 53) t-1,3-Dichloropropene      | 10.16  | 75   | 341      | 2.472     | ug/l #  | 61       |
| 67) Ethyl Benzene              | 11.51  | 91   | 9290     | 0.590     | ug/l    | 92       |
| 68) m/p-Xylenes                | 11.62  | 106  | 12361    | 2.057     | ug/l    | 100      |
| 69) o-Xylene                   | 11.94  | 106  | 4689     | 0.793     | ug/l    | 99       |
| 71) Bromoform                  | 12.40  | 173  | 1422     | 3.255     | ug/l #  | 1        |
| 73) Isopropylbenzene           | 12.25  | 105  | 548      | Below Cal | #       | 48       |
| 76) 1,2,3-Trichloropropane     | 12.40  | 75   | 83417    | 31.760    | ug/l #  | 100      |
| 79) 2-Chlorotoluene            | 12.68  | 91   | 169      | Below Cal | #       | 39       |
| 81) trans-1,4-Dichloro-2-buten | 12.40  | 75   | 83417    | 105.767   | ug/l #  | 15       |
| 83) tert-Butylbenzene          | 13.04  | 119  | 562      | Below Cal | #       | 72       |
| 84) 1,2,4-Trimethylbenzene     | 13.04  | 105  | 6511     | 0.715     | ug/l    | 97       |
| 85) sec-Butylbenzene           | 13.04  | 105  | 6511     | 0.609     | ug/l #  | 55       |
| 95) Naphthalene                | 15.13  | 128  | 3800     | 4.365     | ug/l #  | 89       |
| 96) 1,2,3-Trichlorobenzene     | 15.32  | 180  | 148      | 3.083     | ug/l #  | 12       |

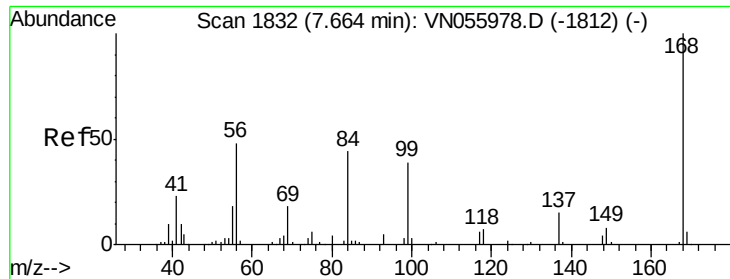
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA N\DATA\VN061019\  
Data File : VN056161.D  
Acq On : 10 Jun 2019 11:37  
Operator : JC/SP  
Sample : I.BLK  
Misc : 5.00mL/MSVOA N/WATER  
ALS Vial : 7 Sample Multiplier: 1

Instrument :  
MSVOA\_N  
ClientSampleId :  
I.BLK

Quant Time: Jun 11 02:18:22 2019  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_N\METHODS\82N060419W.M  
Quant Title : SW846 8260  
QLast Update : Tue Jun 04 11:02:09 2019  
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: VN056161.D

Acq: 10 Jun 2019 11:37

Instrument :

MSVOA\_N

ClientSampleId :

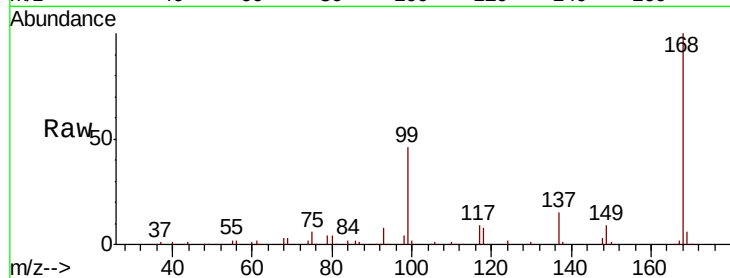
I.BLK

Tot Ion:168 Resp: 310116

Ion Ratio Lower Upper

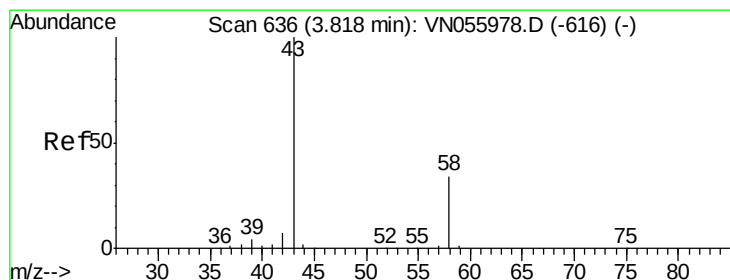
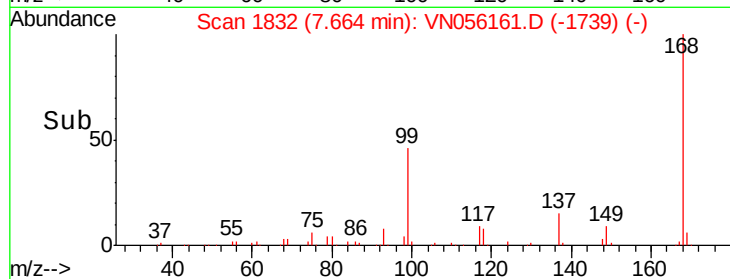
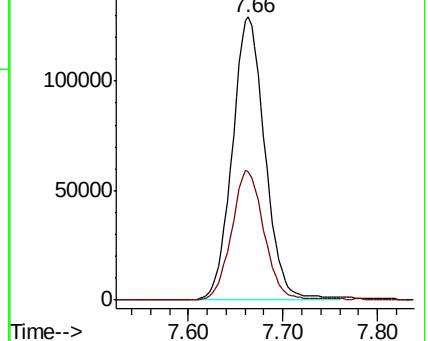
168 100

99 45.6 37.2 55.8



Abundance Ion 167.90 (167.60 to 168.60): VN055978.D (-1812) (-)

Ion 98.90 (98.60 to 99.60): VN055978.D (-1812) (-)



#16

Acetone

Concen: 16.243 ug/l

RT: 3.82 min Scan# 637

Delta R.T. 0.00 min

Lab File: VN056161.D

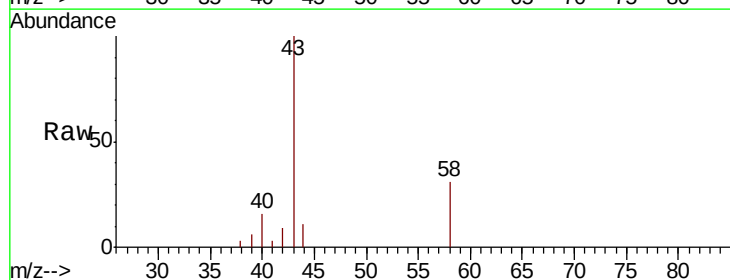
Acq: 10 Jun 2019 11:37

Tgt Ion: 43 Resp: 23921

Ion Ratio Lower Upper

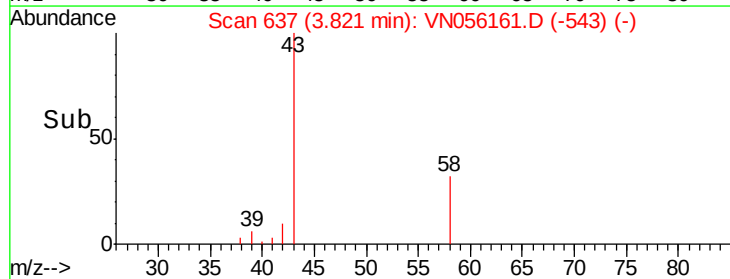
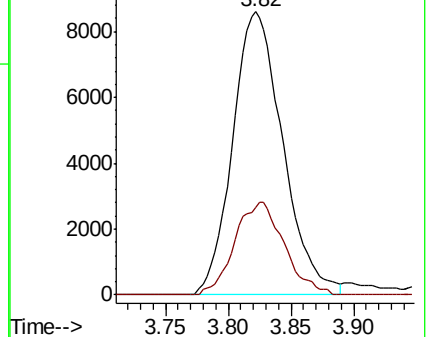
43 100

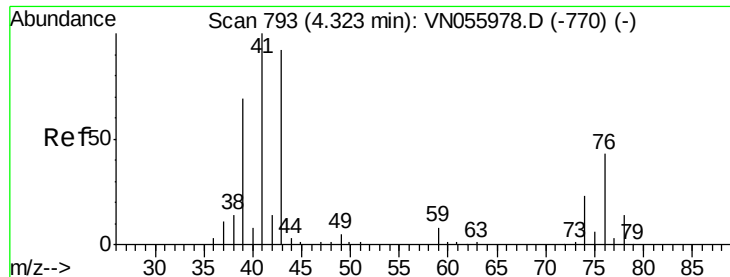
58 31.0 26.6 39.8



Abundance Ion 43.00 (42.70 to 43.70): VN055978.D (-616) (-)

Ion 58.00 (57.70 to 58.70): VN055978.D (-616) (-)

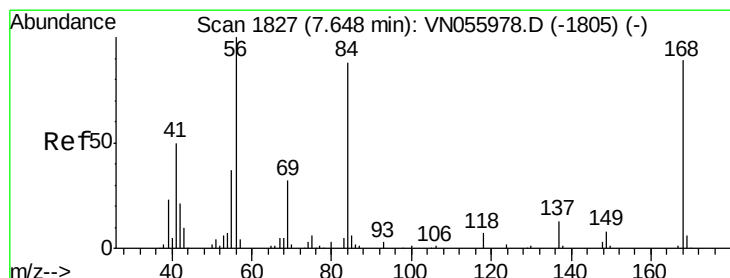
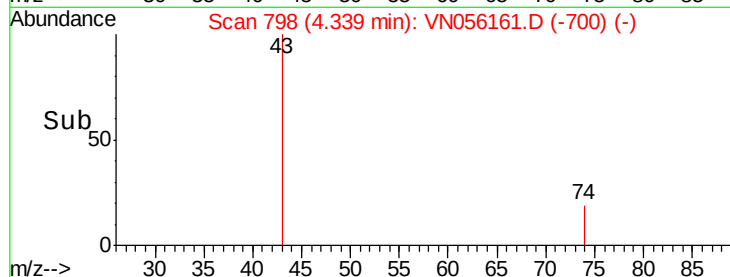
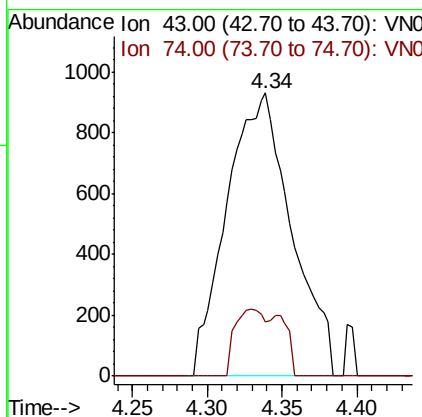
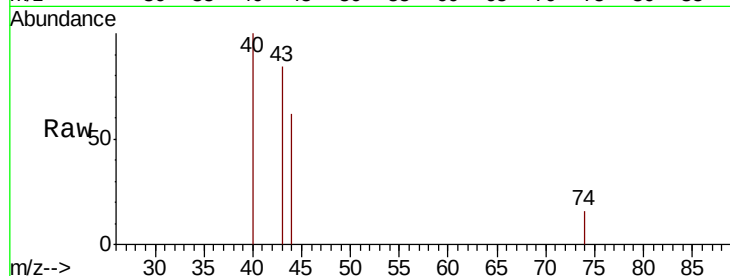




#18  
Methyl Acetate  
Concen: 0.395 ug/l  
RT: 4.34 min Scan# 798  
Delta R.T. 0.02 min  
Lab File: VN056161.D  
Acq: 10 Jun 2019 11:37

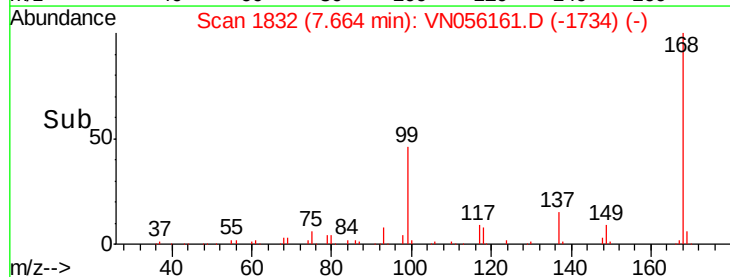
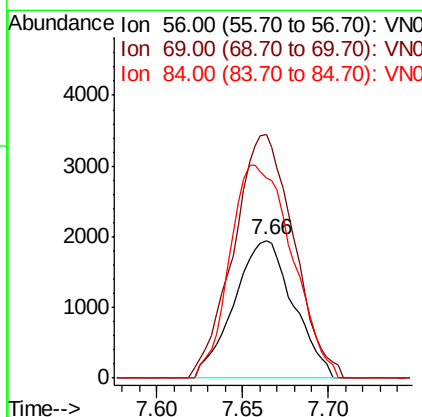
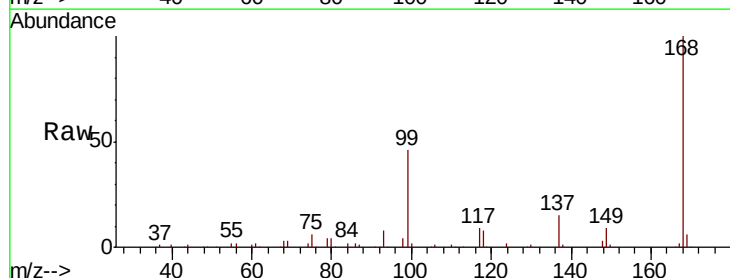
Instrument :  
MSVOA\_N  
ClientSampled :  
I.BLK

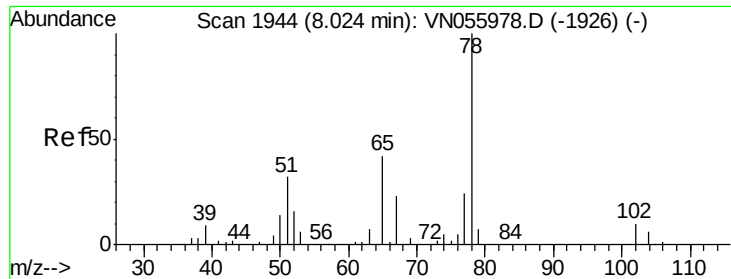
Tot Ion: 43 Resp: 2803  
Ion Ratio Lower Upper  
43 100  
74 10.7 19.3 28.9#



#31  
Cyclohexane  
Concen: 0.951 ug/l  
RT: 7.66 min Scan# 1832  
Delta R.T. 0.02 min  
Lab File: VN056161.D  
Acq: 10 Jun 2019 11:37

Tgt Ion: 56 Resp: 4647  
Ion Ratio Lower Upper  
56 100  
69 176.6 25.6 38.4#  
84 145.4 67.4 101.0#

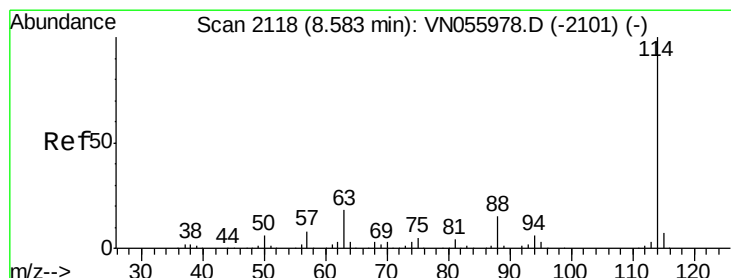
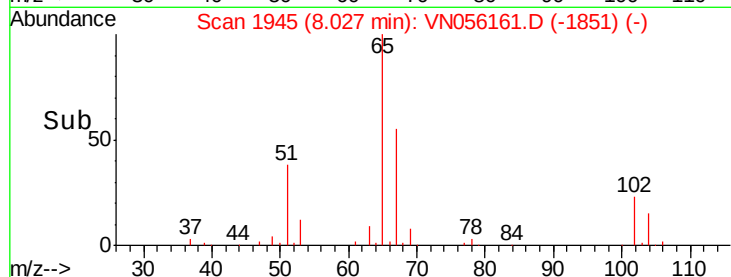
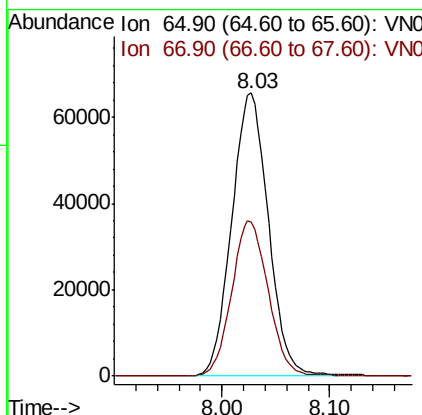
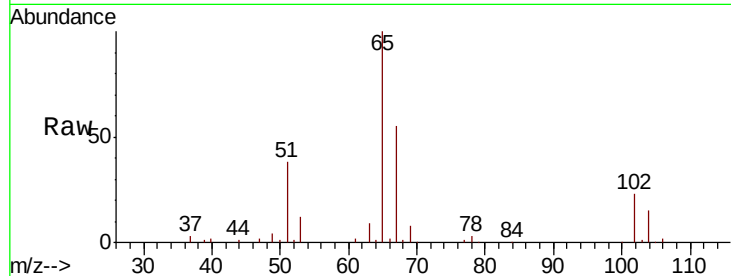




#33  
 1,2-Dichloroethane-d4  
 Concen: 50.382 ug/l  
 RT: 8.03 min Scan# 1945  
 Delta R.T. 0.00 min  
 Lab File: VN056161.D  
 Acq: 10 Jun 2019 11:37

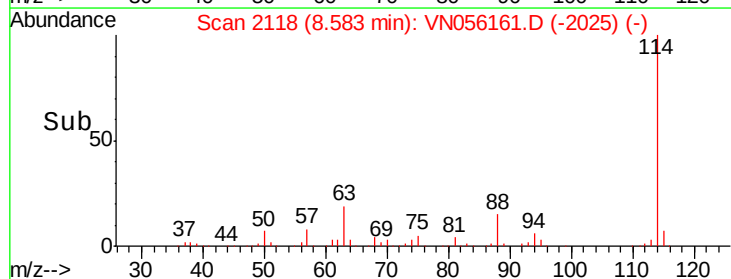
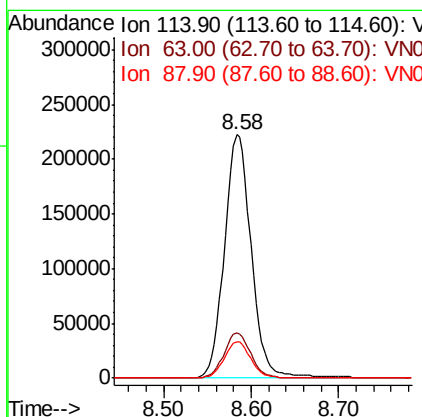
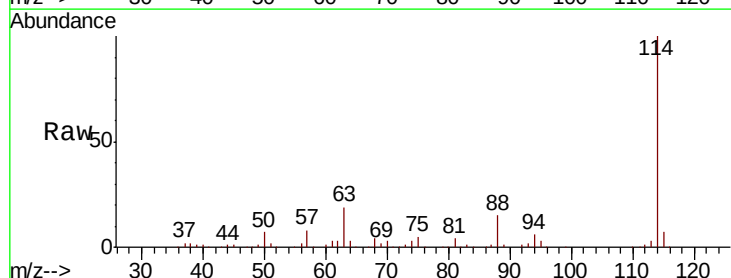
Instrument :  
 MSVOA\_N  
 ClientSampled :  
 I.BLK

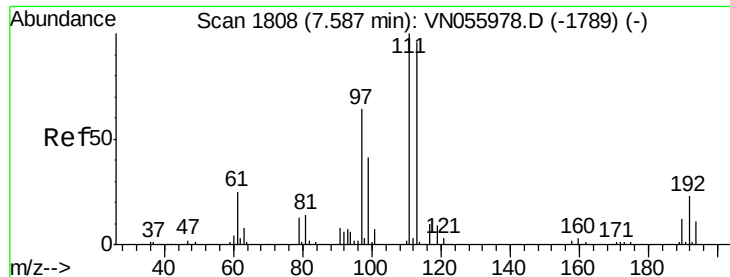
Tot Ion: 65 Resp: 155135  
 Ion Ratio Lower Upper  
 65 100  
 67 54.6 0.0 109.2



#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.58 min Scan# 2118  
 Delta R.T. -0.00 min  
 Lab File: VN056161.D  
 Acq: 10 Jun 2019 11:37

Tgt Ion: 114 Resp: 473426  
 Ion Ratio Lower Upper  
 114 100  
 63 18.7 0.0 39.2  
 88 15.0 0.0 31.0





#35

Dibromofluoromethane

Concen: 48.727 ug/l

RT: 7.59 min Scan# 1809

Delta R.T. 0.00 min

Lab File: VN056161.D

Acq: 10 Jun 2019 11:37

Instrument :

MSVOA\_N

ClientSampleId :

I.BLK

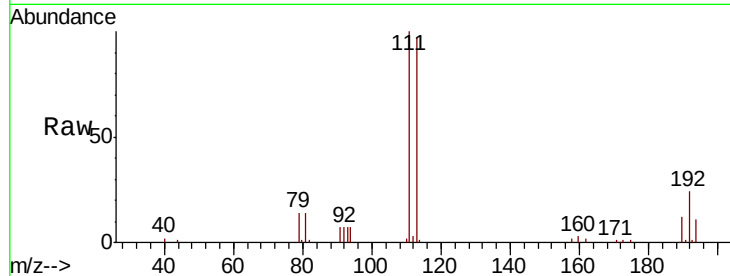
Tot Ion:113 Resp: 141534

Ion Ratio Lower Upper

113 100

111 101.9 81.9 122.9

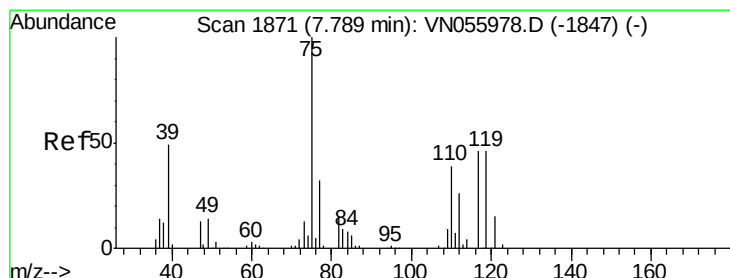
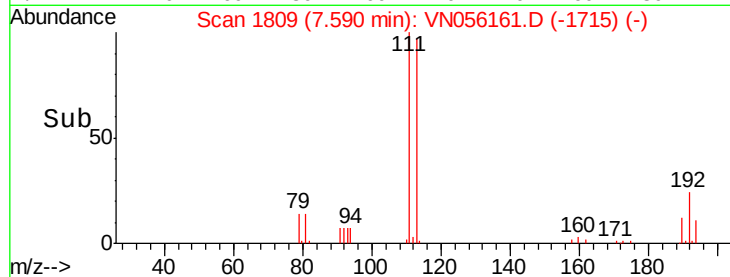
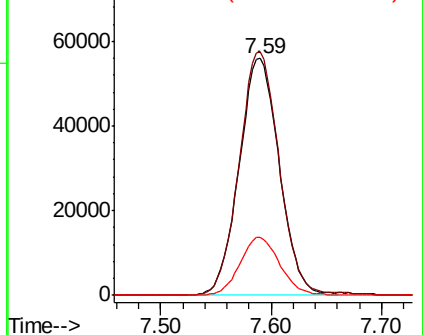
192 24.2 19.5 29.3



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



#36

1,1-Dichloropropene

Concen: 4.461 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. -0.13 min

Lab File: VN056161.D

Acq: 10 Jun 2019 11:37

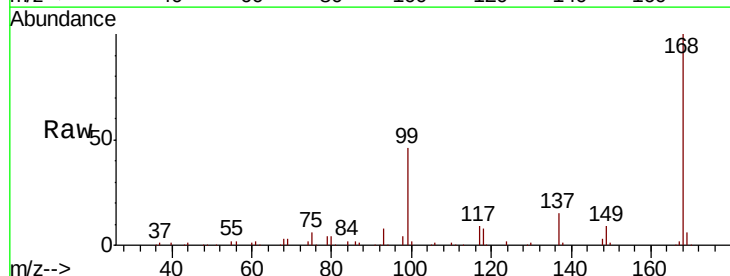
Tgt Ion: 75 Resp: 18161

Ion Ratio Lower Upper

75 100

110 9.6 19.0 57.0#

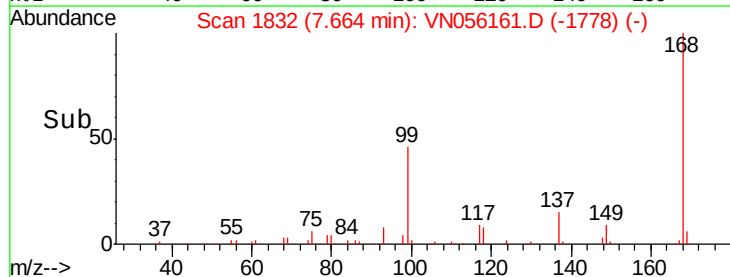
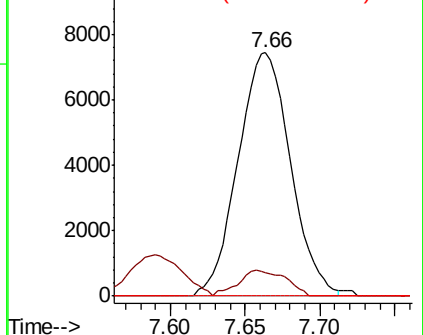
77 0.0 25.1 37.7#

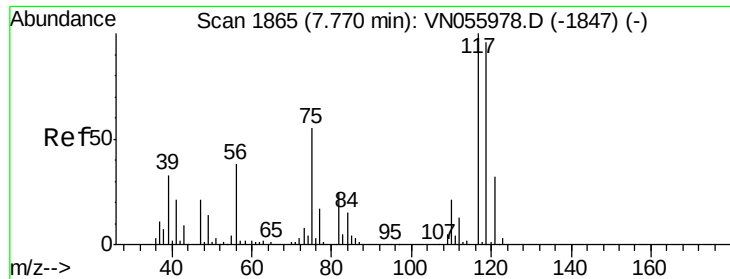


Abundance Ion 74.90 (74.60 to 75.60): V

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): V

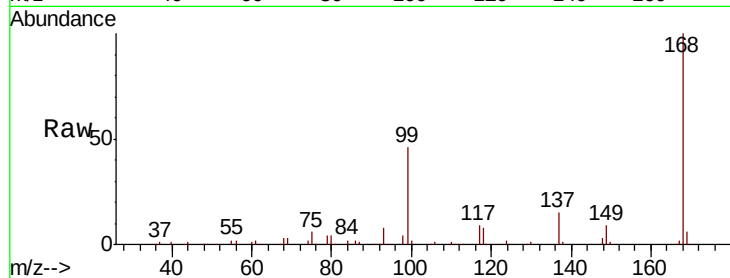




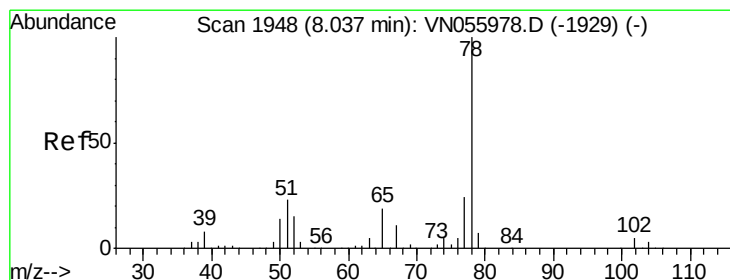
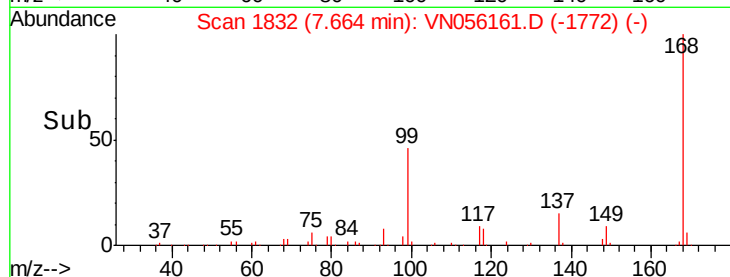
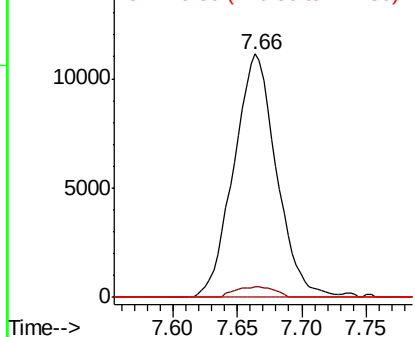
#38  
Carbon Tetrachloride  
Concen: 6.820 ug/l  
RT: 7.66 min Scan# 1832  
Delta R.T. -0.11 min  
Lab File: VN056161.D  
Acq: 10 Jun 2019 11:37

Instrument :  
MSVOA\_N  
ClientSampled :  
I.BLK

Tot Ion:117 Resp: 25597  
Ion Ratio Lower Upper  
117 100  
119 4.3 79.0 118.6#  
121 0.0 24.7 37.1#

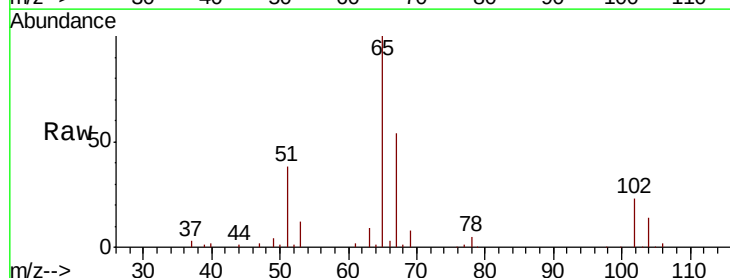


Abundance Ion 116.80 (116.50 to 117.50): V  
Ion 118.80 (118.50 to 119.50): V  
Ion 120.80 (120.50 to 121.50): V

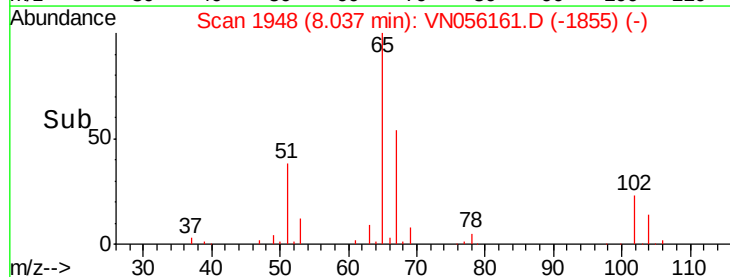
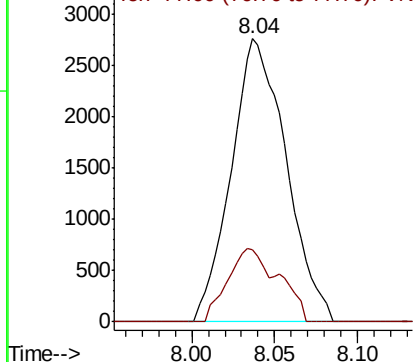


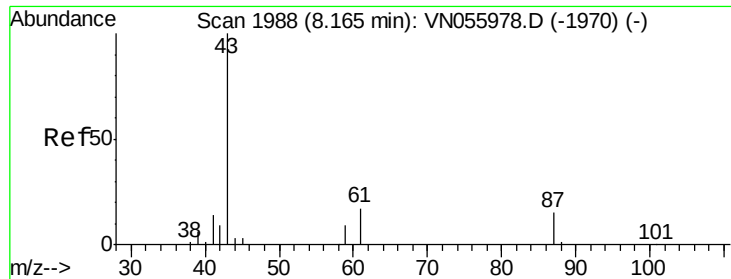
#40  
Benzene  
Concen: 0.516 ug/l  
RT: 8.04 min Scan# 1948  
Delta R.T. -0.00 min  
Lab File: VN056161.D  
Acq: 10 Jun 2019 11:37

Tgt Ion: 78 Resp: 6381  
Ion Ratio Lower Upper  
78 100  
77 25.7 18.8 28.2



Abundance Ion 78.00 (77.70 to 78.70): V  
Ion 77.00 (76.70 to 77.70): V





#43

Isopropyl Acetate

Concen: 0.318 ug/l

RT: 8.29 min Scan# 2026

Delta R.T. 0.12 min

Lab File: VN056161.D

Acq: 10 Jun 2019 11:37

Instrument :

MSVOA\_N

ClientSampleId :

I.BLK

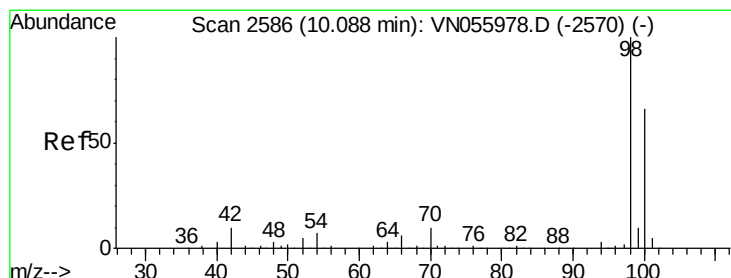
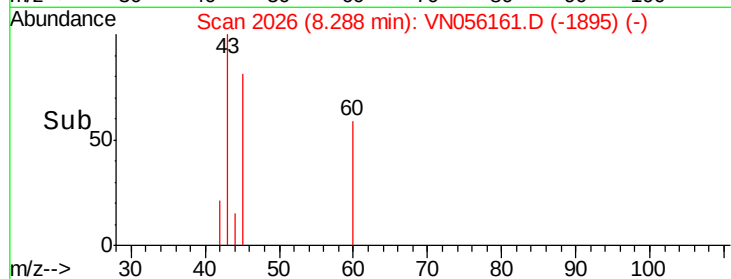
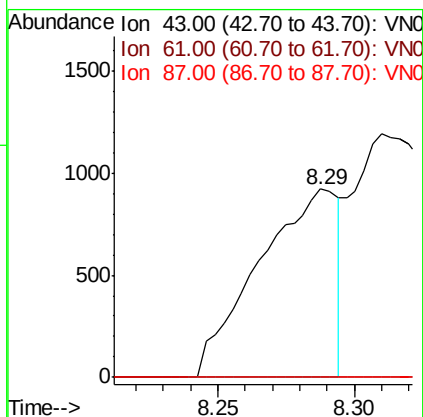
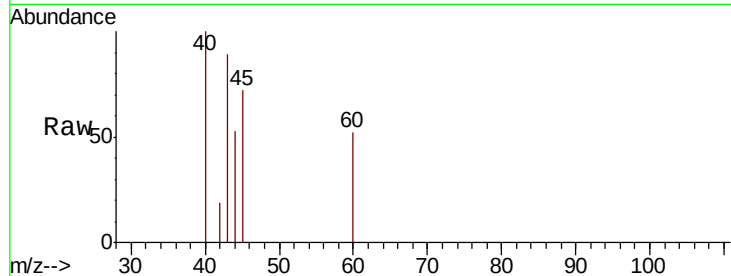
Tot Ion: 43 Resp: 1867

Ion Ratio Lower Upper

43 100

61 0.0 22.2 33.4#

87 0.0 11.4 17.2#



#50

Toluene-d8

Concen: 51.253 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN056161.D

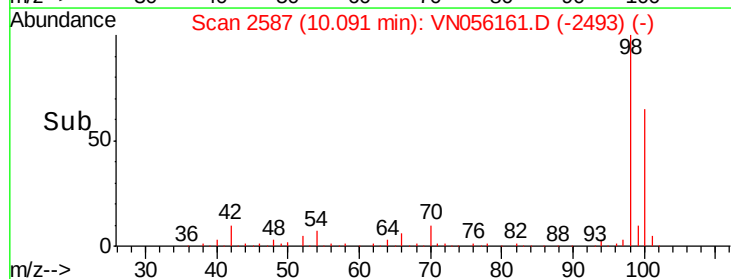
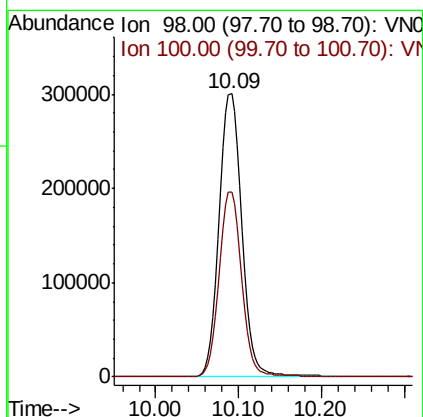
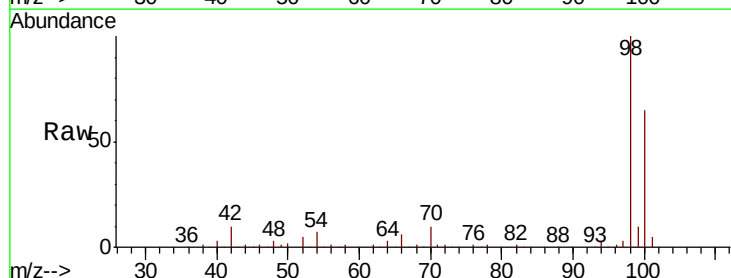
Acq: 10 Jun 2019 11:37

Tgt Ion: 98 Resp: 572852

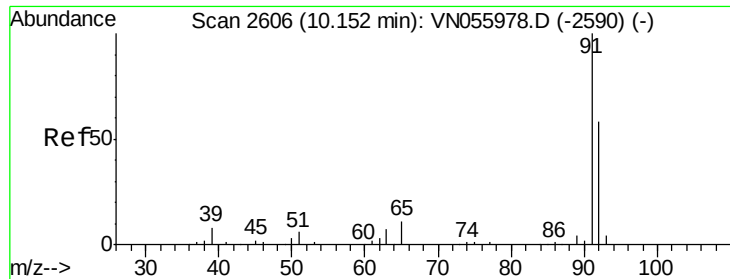
Ion Ratio Lower Upper

98 100

100 64.5 51.9 77.9







#52

Toluene

Concen: 5.521 ug/l

RT: 10.16 min Scan# 2607

Delta R.T. 0.00 min

Lab File: VN056161.D

Acq: 10 Jun 2019 11:37

Instrument :

MSVOA\_N

ClientSampled :

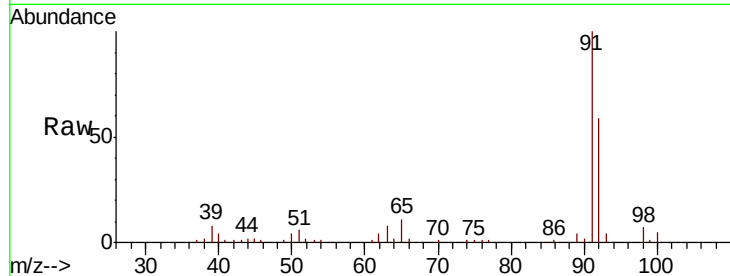
I.BLK

Tot Ion: 92 Resp: 42474

Ion Ratio Lower Upper

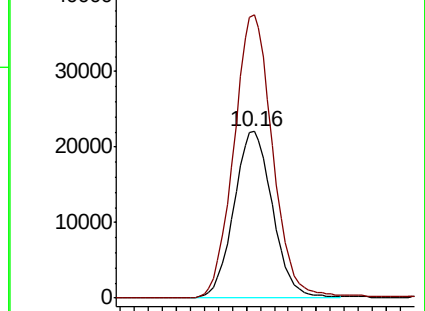
92 100

91 171.8 139.4 209.2

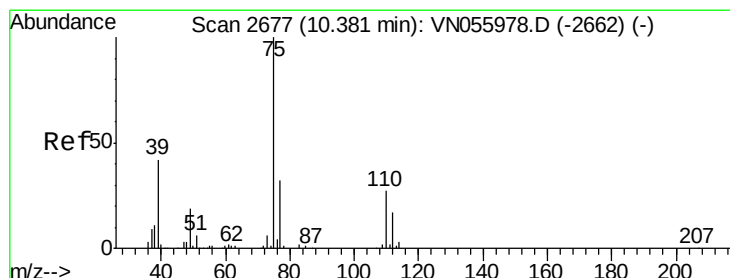
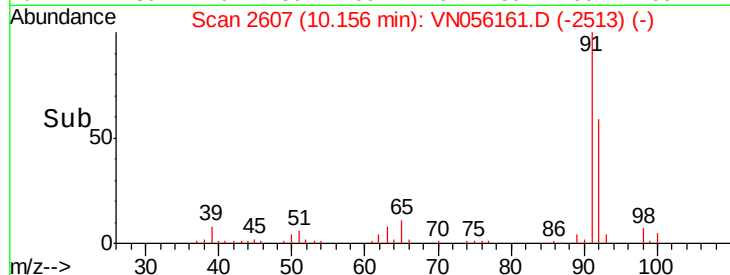


Abundance Ion 92.00 (91.70 to 92.70): VN0

Ion 91.00 (90.70 to 91.70): VN0



Time-->



#53

t-1,3-Dichloropropene

Concen: 2.472 ug/l

RT: 10.16 min Scan# 2607

Delta R.T. -0.22 min

Lab File: VN056161.D

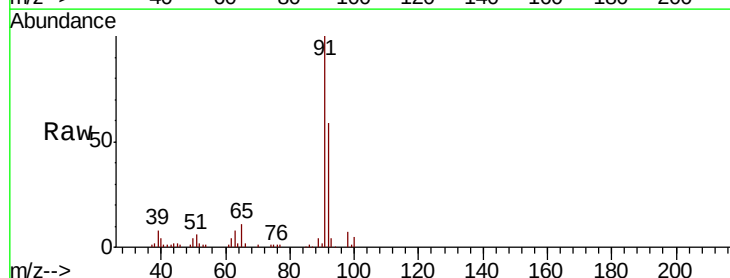
Acq: 10 Jun 2019 11:37

Tgt Ion: 75 Resp: 341

Ion Ratio Lower Upper

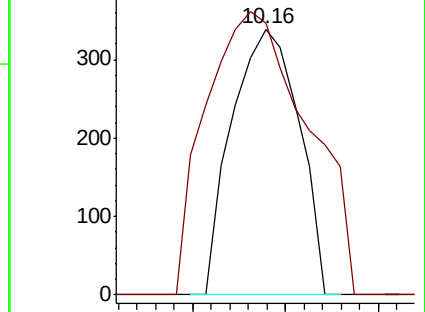
75 100

77 54.0 25.8 38.6#

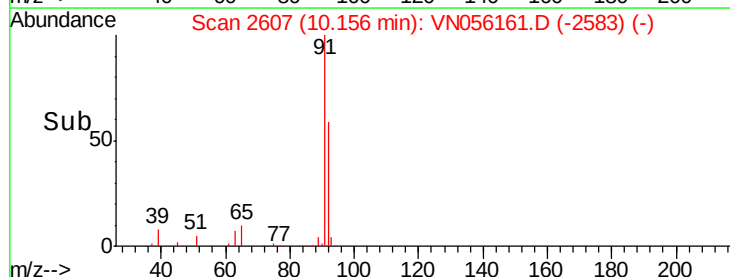


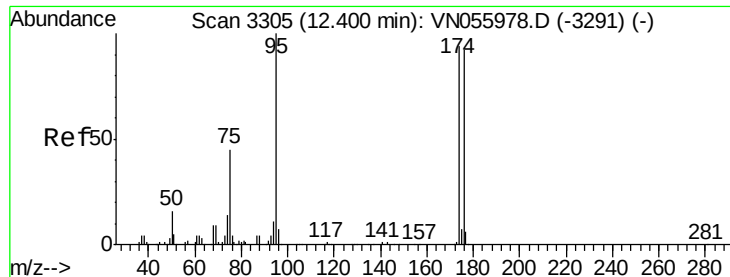
Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 76.90 (76.60 to 77.60): VN0



Time-->

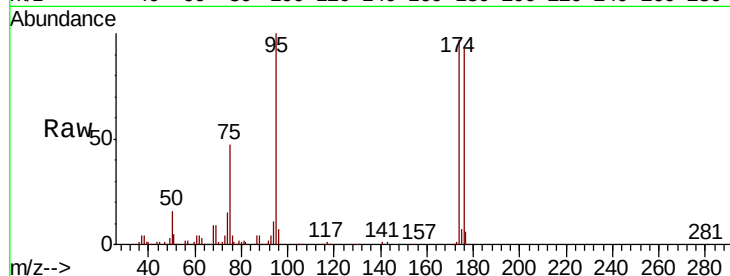




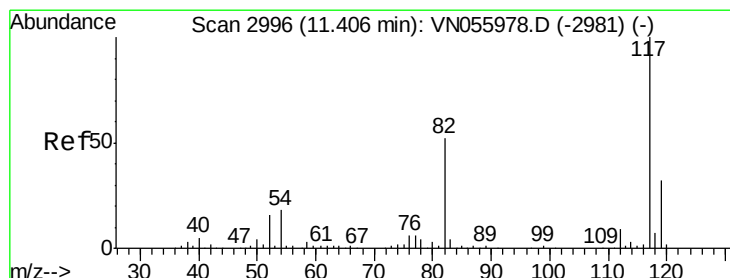
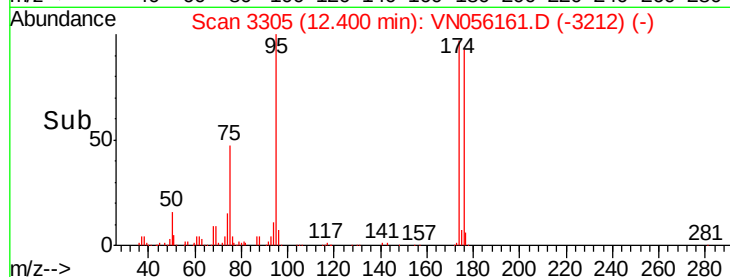
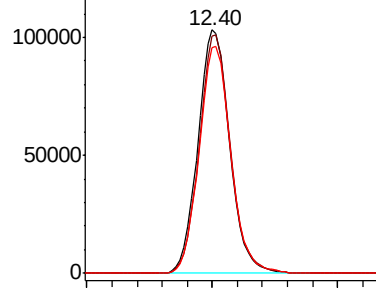
#62  
4-Bromofluorobenzene  
Concen: 47.501 ug/l  
RT: 12.40 min Scan# 3305  
Delta R.T. -0.00 min  
Lab File: VN056161.D  
Acq: 10 Jun 2019 11:37

Instrument :  
MSVOA\_N  
ClientSampled :  
I.BLK

Tot Ion: 95 Resp: 180551  
Ion Ratio Lower Upper  
95 100  
174 96.3 0.0 191.0  
176 93.6 0.0 185.2

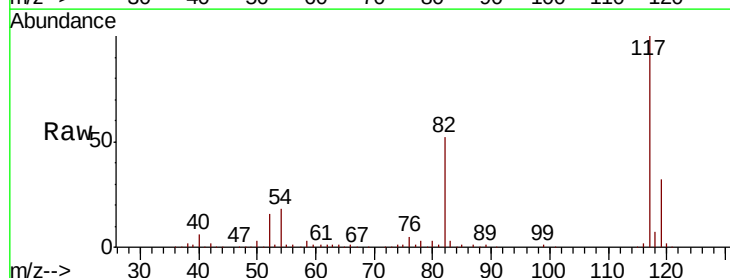


Abundance Ion 94.90 (94.60 to 95.60): VN0  
Ion 173.80 (173.50 to 174.50): VN0  
Ion 175.80 (175.50 to 176.50): VN0

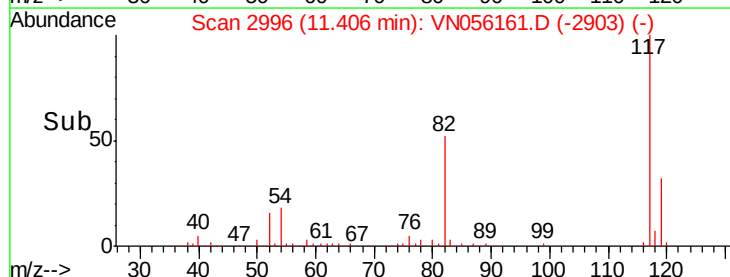
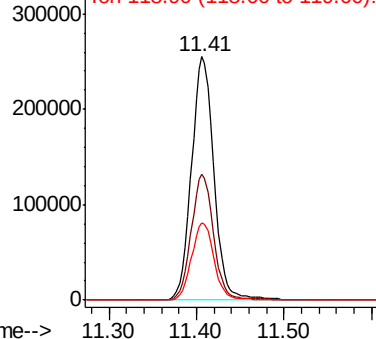


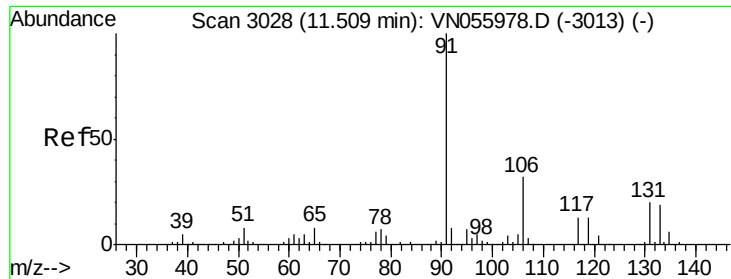
#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.41 min Scan# 2996  
Delta R.T. -0.00 min  
Lab File: VN056161.D  
Acq: 10 Jun 2019 11:37

Tgt Ion: 117 Resp: 454639  
Ion Ratio Lower Upper  
117 100  
82 52.0 41.8 62.8  
119 31.9 25.4 38.0



Abundance Ion 116.90 (116.60 to 117.60): VN0  
Ion 82.00 (81.70 to 82.70): VN0  
Ion 118.90 (118.60 to 119.60): VN0

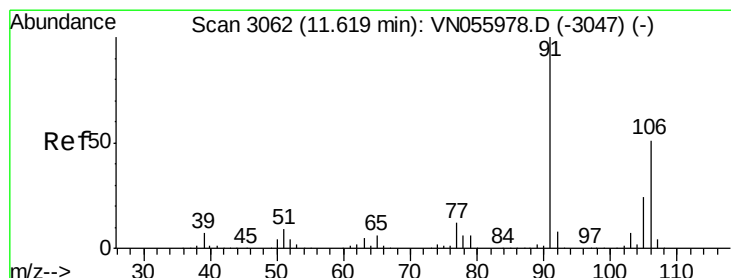
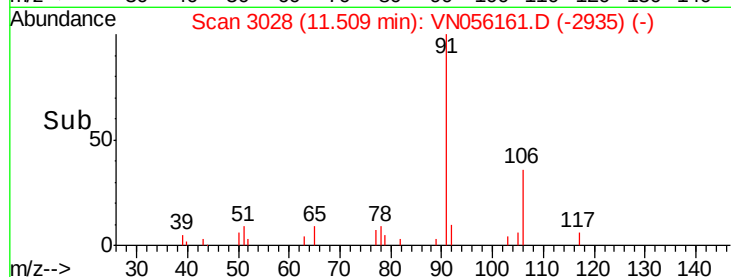
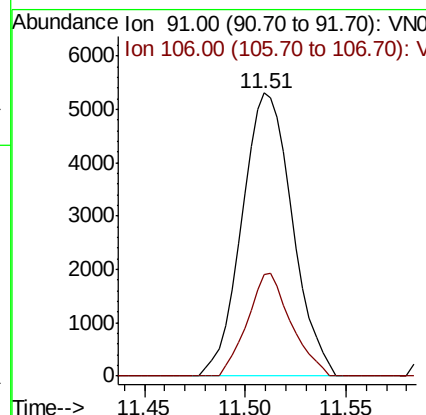
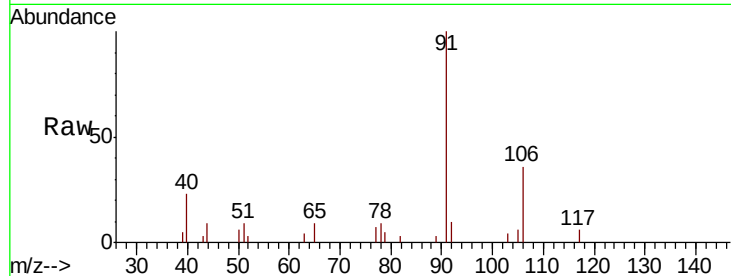




#67  
Ethyl Benzene  
Concen: 0.590 ug/l  
RT: 11.51 min Scan# 3028  
Delta R.T. -0.00 min  
Lab File: VN056161.D  
Acq: 10 Jun 2019 11:37

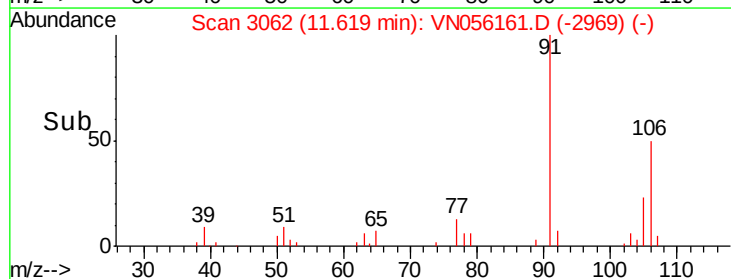
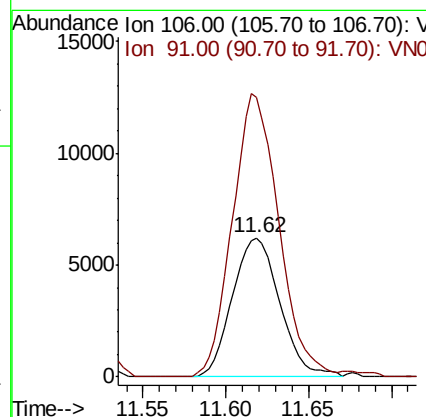
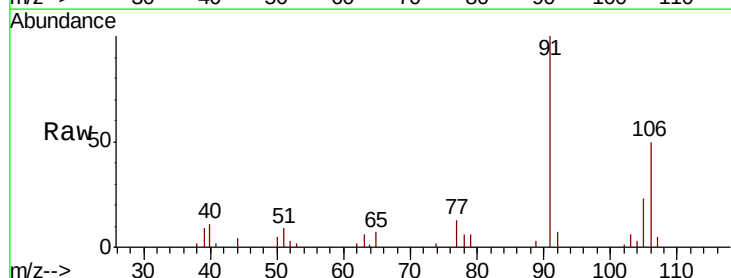
Instrument :  
MSVOA\_N  
ClientSampled :  
I.BLK

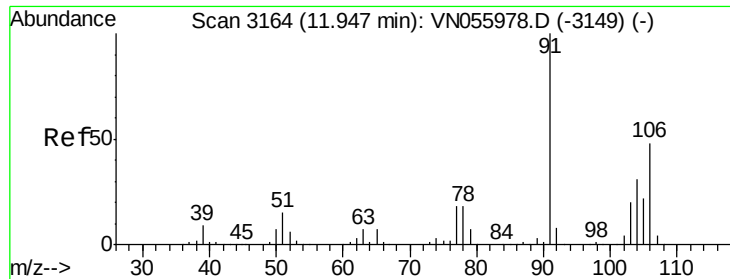
Tot Ion: 91 Resp: 9290  
Ion Ratio Lower Upper  
91 100  
106 35.9 25.1 37.7



#68  
m/p-Xylenes  
Concen: 2.057 ug/l  
RT: 11.62 min Scan# 3062  
Delta R.T. -0.00 min  
Lab File: VN056161.D  
Acq: 10 Jun 2019 11:37

Tgt Ion: 106 Resp: 12361  
Ion Ratio Lower Upper  
106 100  
91 199.6 159.3 238.9

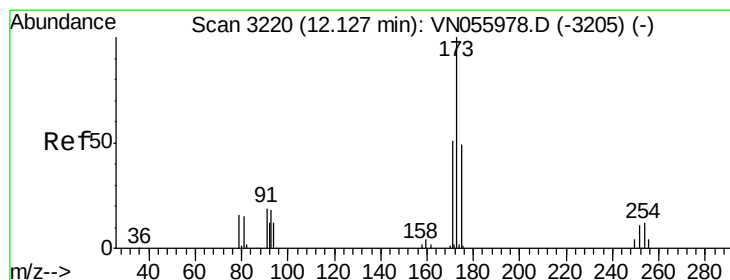
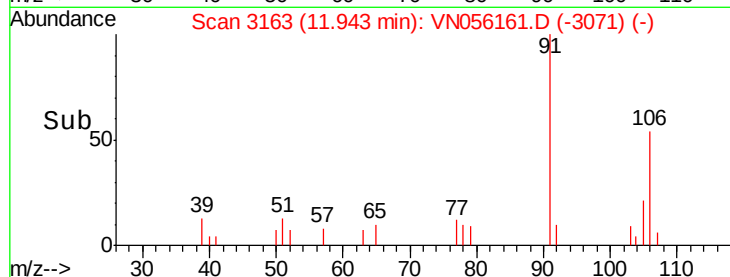
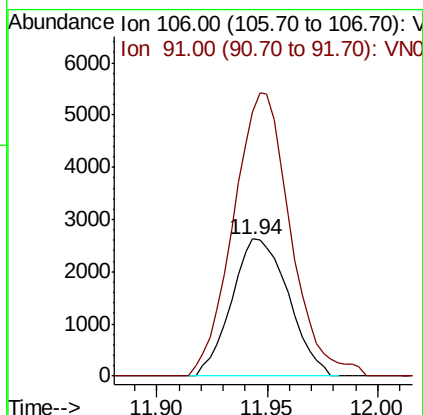
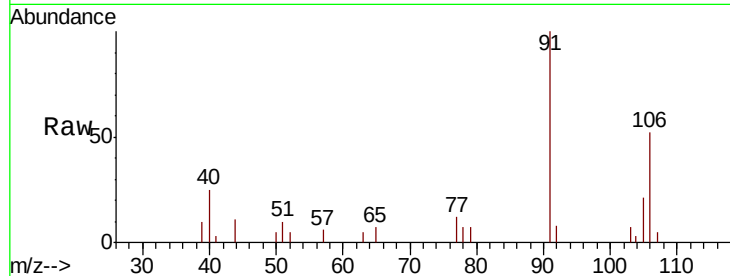




#69  
o-Xylene  
Concen: 0.793 ug/l  
RT: 11.94 min Scan# 3163  
Delta R.T. -0.00 min  
Lab File: VN056161.D  
Acq: 10 Jun 2019 11:37

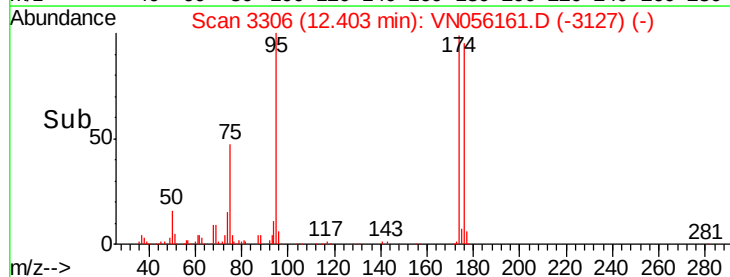
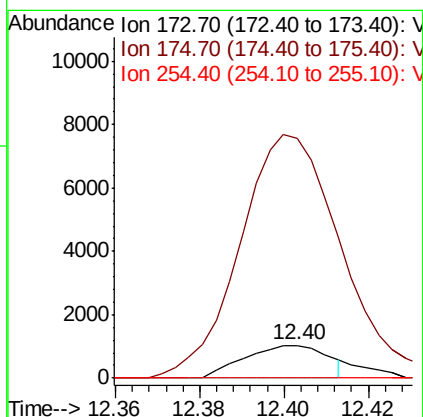
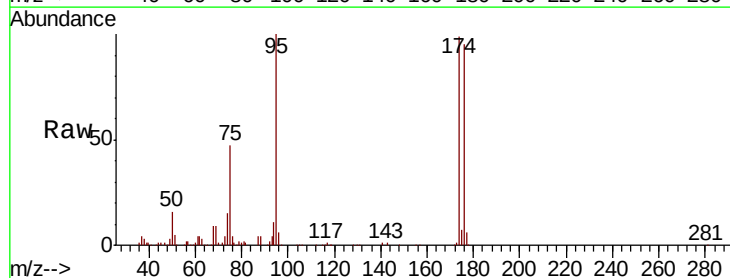
Instrument :  
MSVOA\_N  
ClientSampled :  
I.BLK

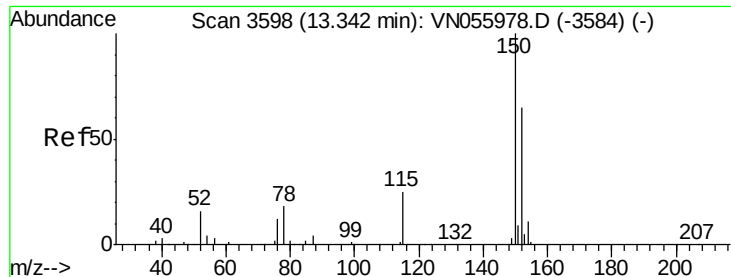
Tot Ion:106 Resp: 4689  
Ion Ratio Lower Upper  
106 100  
91 208.0 104.7 314.1



#71  
Bromoform  
Concen: 3.255 ug/l  
RT: 12.40 min Scan# 3306  
Delta R.T. 0.28 min  
Lab File: VN056161.D  
Acq: 10 Jun 2019 11:37

Tgt Ion:173 Resp: 1422  
Ion Ratio Lower Upper  
173 100  
175 778.5 24.3 72.8#  
254 0.0 0.0 0.0





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.34 min Scan# 3598

Delta R.T. -0.00 min

Lab File: VN056161.D

Acq: 10 Jun 2019 11:37

Instrument :

MSVOA\_N

ClientSampleId :

I.BLK

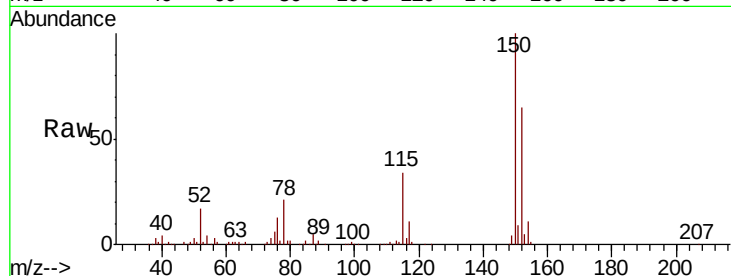
Tot Ion:152 Resp: 142740

Ion Ratio Lower Upper

152 100

115 52.1 27.0 81.0

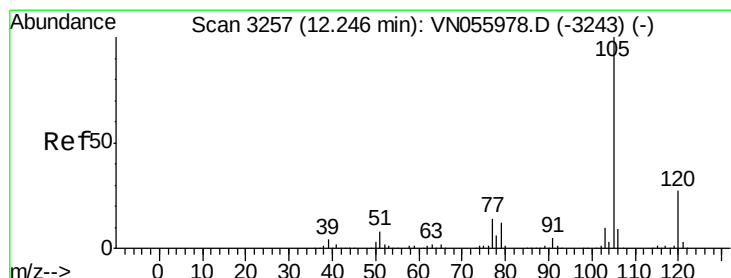
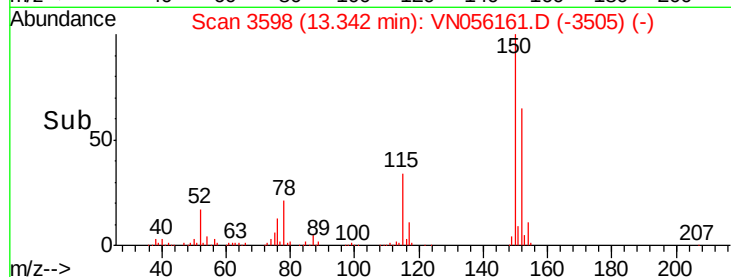
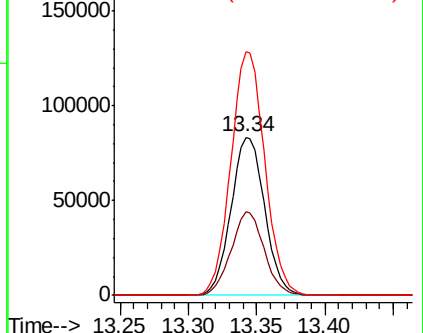
150 155.4 0.0 343.2



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#73

Isopropylbenzene

Concen: Below Cal

RT: 12.25 min Scan# 3258

Delta R.T. 0.00 min

Lab File: VN056161.D

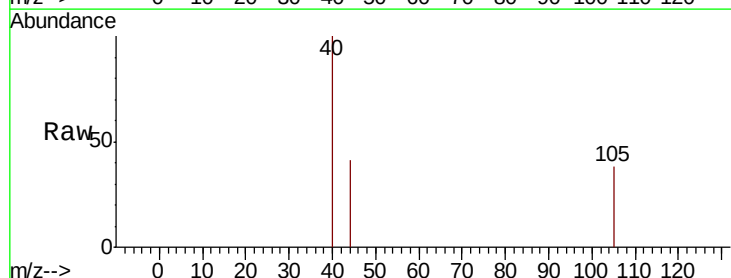
Acq: 10 Jun 2019 11:37

Tgt Ion:105 Resp: 548

Ion Ratio Lower Upper

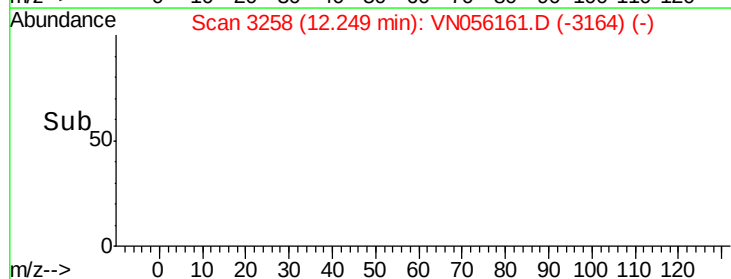
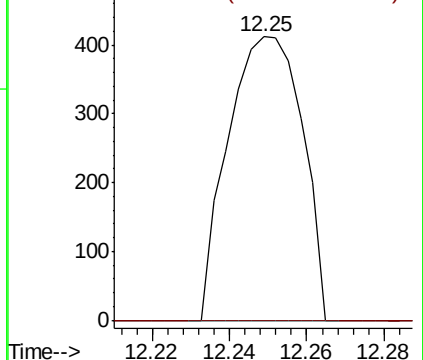
105 100

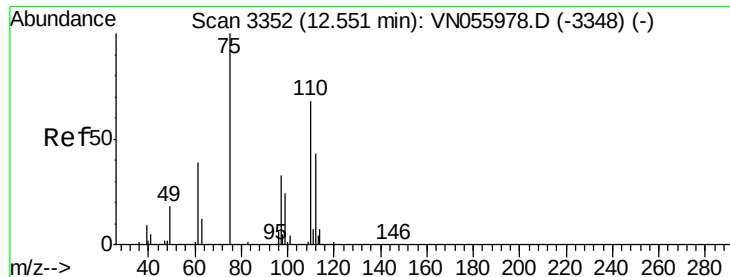
120 0.0 13.6 40.7#



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#76

1,2,3-Trichloropropane

Concen: 31.760 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN056161.D

Acq: 10 Jun 2019 11:37

Instrument :

MSVOA\_N

ClientSampled :

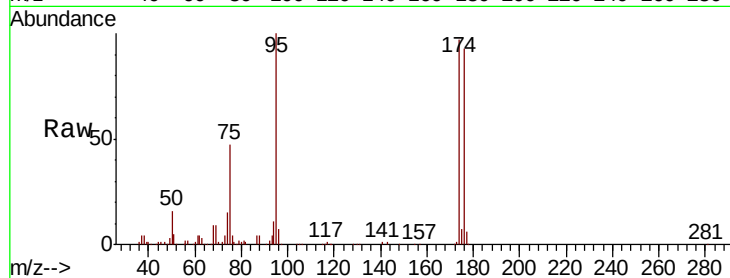
I.BLK

Tot Ion: 75 Resp: 83417

Ion Ratio Lower Upper

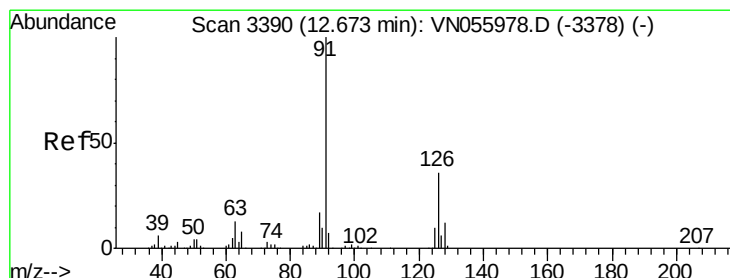
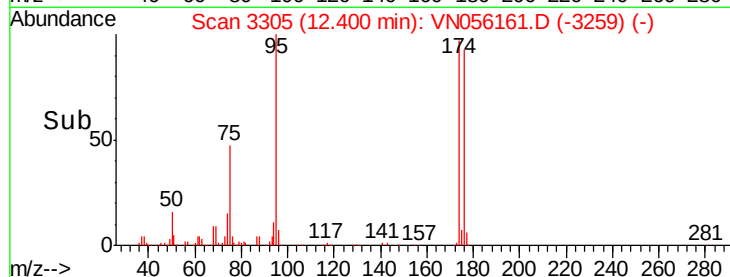
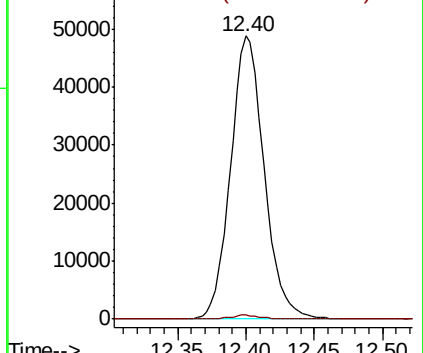
75 100

77 1.2 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0



#79

2-Chlorotoluene

Concen: Below Cal

RT: 12.68 min Scan# 3393

Delta R.T. 0.01 min

Lab File: VN056161.D

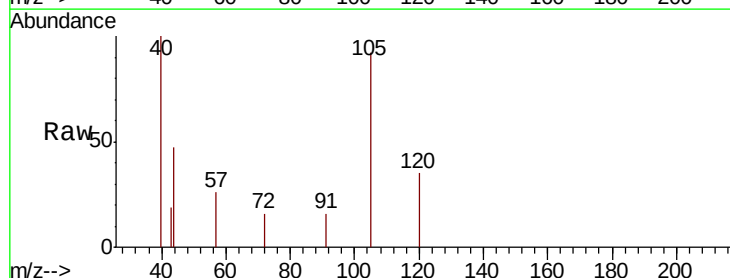
Acq: 10 Jun 2019 11:37

Tgt Ion: 91 Resp: 169

Ion Ratio Lower Upper

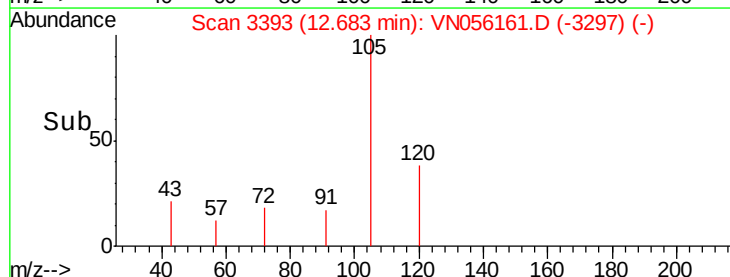
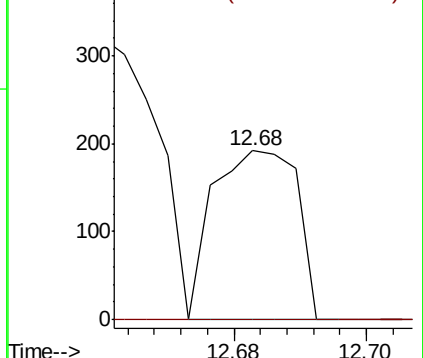
91 100

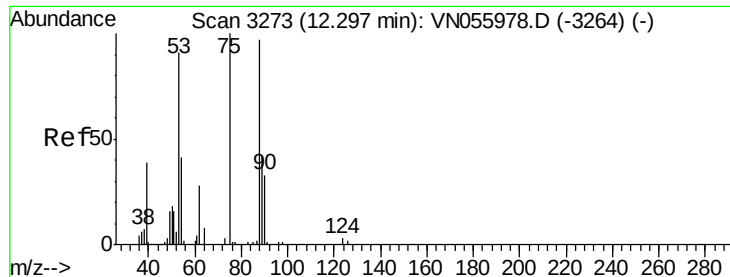
126 0.0 18.1 54.4#



Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 125.90 (125.60 to 126.60): V

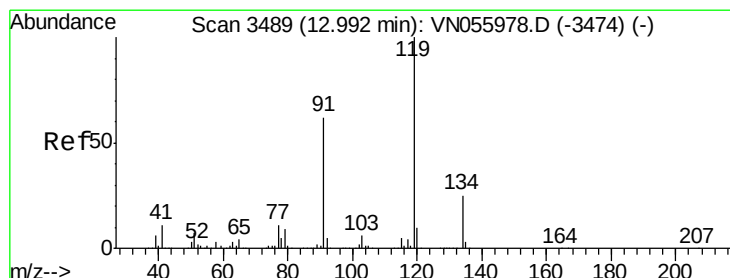
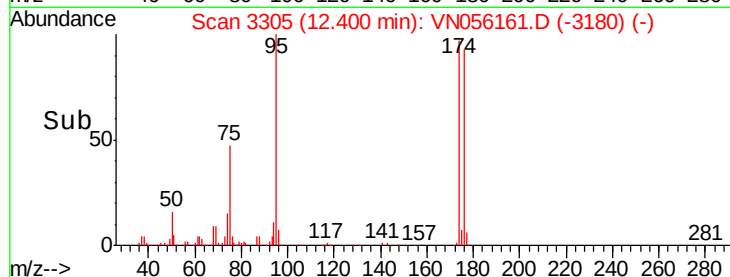
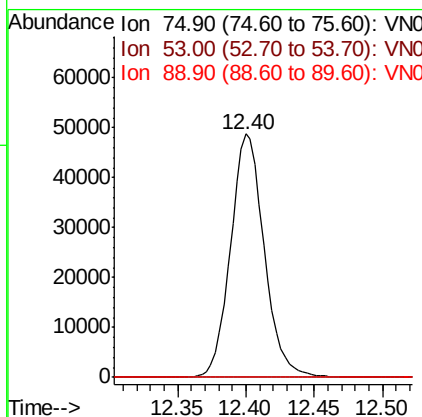
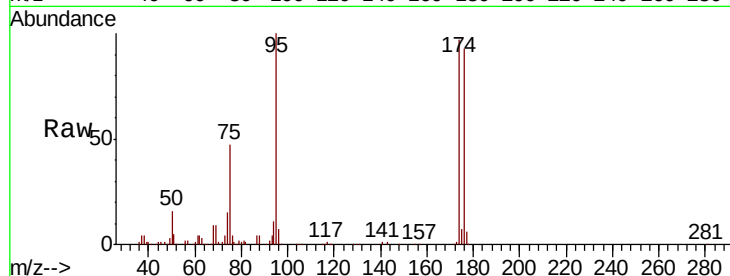




#81  
 trans-1,4-Dichloro-2-butene  
 Concen: 105.767 ug/l  
 RT: 12.40 min Scan# 3305  
 Delta R.T. 0.10 min  
 Lab File: VN056161.D  
 Acq: 10 Jun 2019 11:37

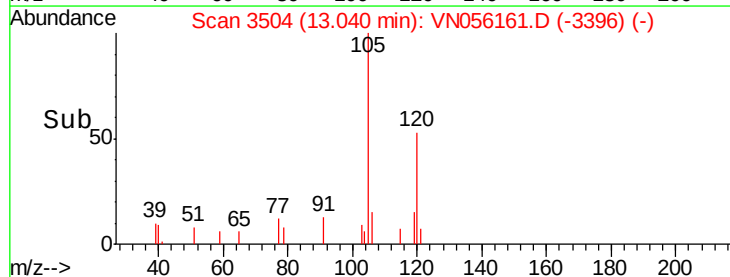
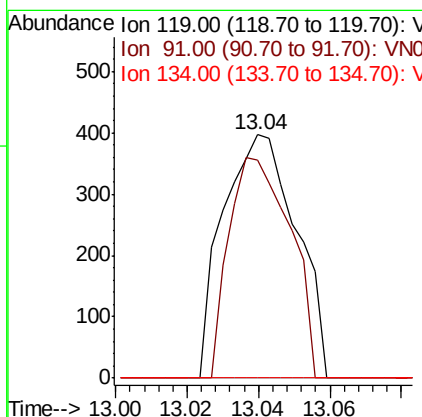
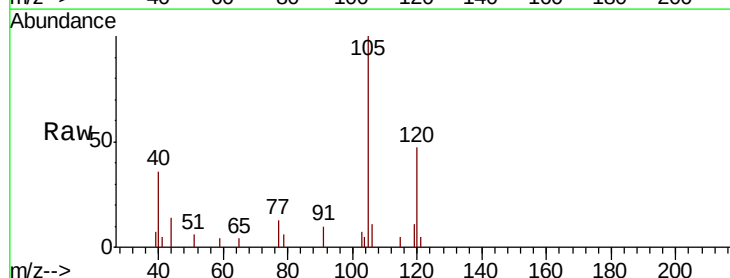
Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 I.BLK

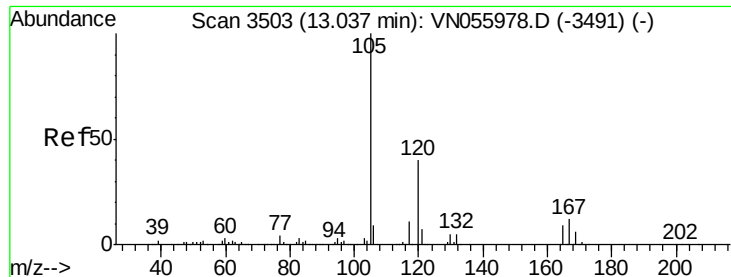
Tot Ion: 75 Resp: 83417  
 Ion Ratio Lower Upper  
 75 100  
 53 0.0 68.1 102.1#  
 89 0.0 36.9 55.3#



#83  
 tert-Butylbenzene  
 Concen: Below Cal  
 RT: 13.04 min Scan# 3504  
 Delta R.T. 0.05 min  
 Lab File: VN056161.D  
 Acq: 10 Jun 2019 11:37

Tgt Ion: 119 Resp: 562  
 Ion Ratio Lower Upper  
 119 100  
 91 76.0 30.9 92.8  
 134 0.0 13.3 39.8#

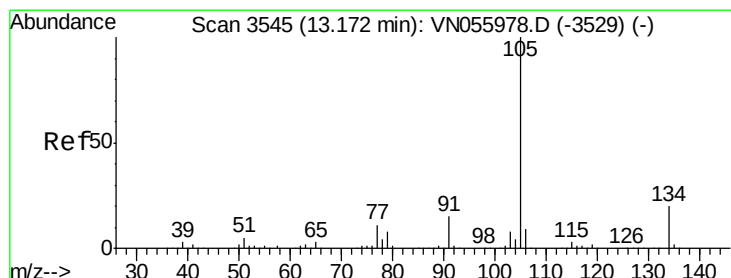
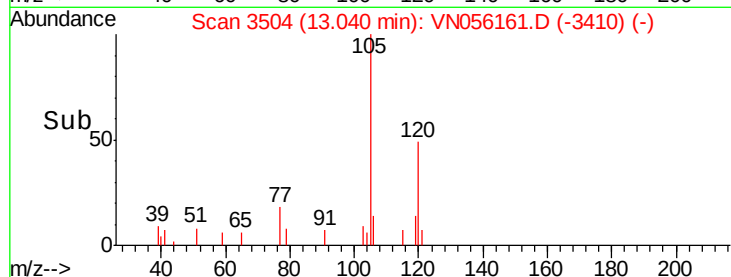
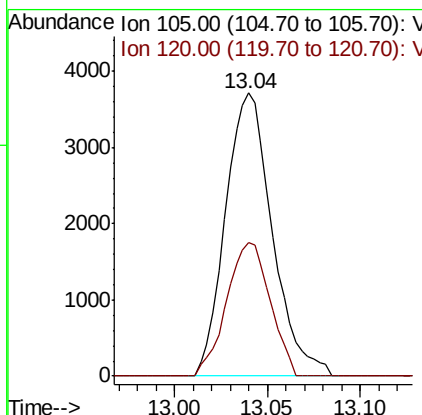
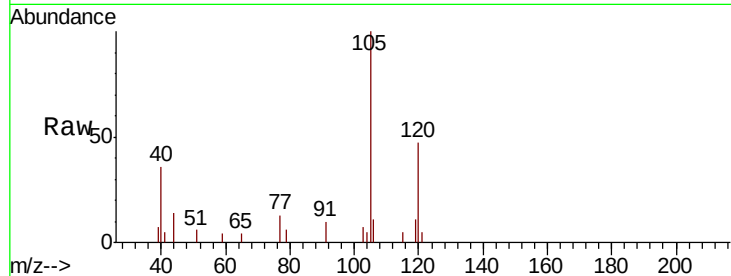




#84  
1,2,4-Trimethylbenzene  
Concen: 0.715 ug/l  
RT: 13.04 min Scan# 3504  
Delta R.T. 0.00 min  
Lab File: VN056161.D  
Acq: 10 Jun 2019 11:37

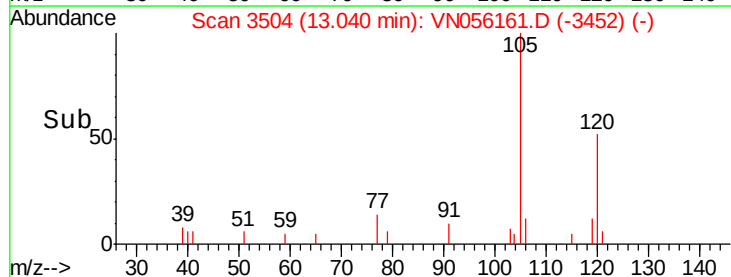
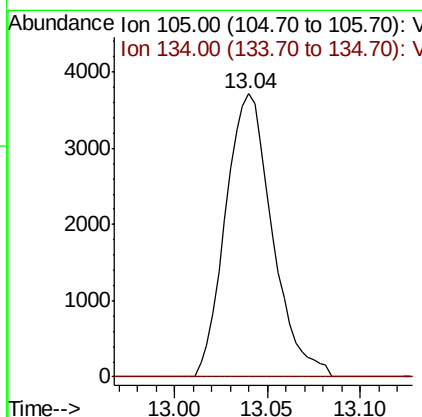
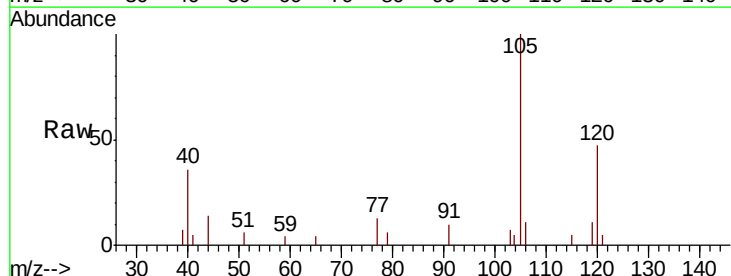
Instrument :  
MSVOA\_N  
ClientSampled :  
I.BLK

Tot Ion:105 Resp: 6511  
Ion Ratio Lower Upper  
105 100  
120 43.9 23.0 69.0

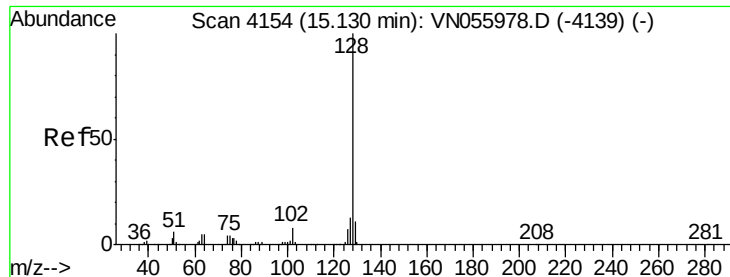


#85  
sec-Butylbenzene  
Concen: 0.609 ug/l  
RT: 13.04 min Scan# 3504  
Delta R.T. -0.13 min  
Lab File: VN056161.D  
Acq: 10 Jun 2019 11:37

Tgt Ion:105 Resp: 6511  
Ion Ratio Lower Upper  
105 100  
134 0.0 10.4 31.2#







#95

Naphthalene

Concen: 4.365 ug/l

RT: 15.13 min Scan# 4154

Delta R.T. 0.00 min

Lab File: VN056161.D

Acq: 10 Jun 2019 11:37

Instrument :

MSVOA\_N

ClientSampled :

I.BLK

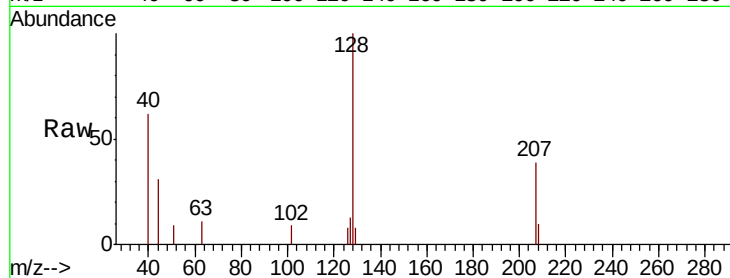
Tot Ion:128 Resp: 3800

Ion Ratio Lower Upper

128 100

127 6.0 10.3 15.5#

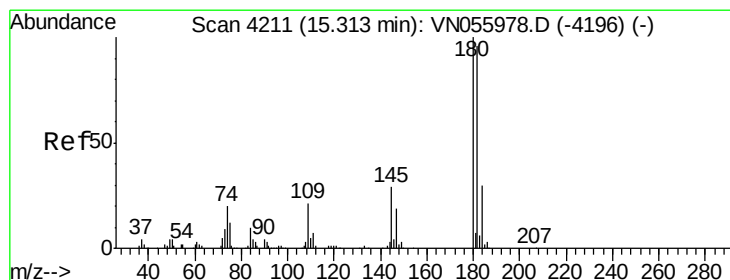
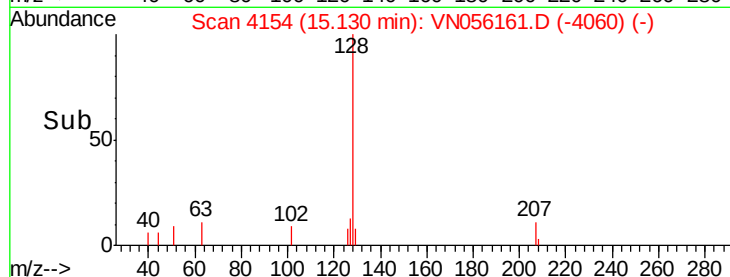
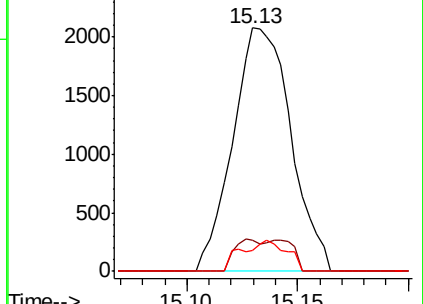
129 10.0 8.7 13.1



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



#96

1,2,3-Trichlorobenzene

Concen: 3.083 ug/l

RT: 15.32 min Scan# 4212

Delta R.T. 0.00 min

Lab File: VN056161.D

Acq: 10 Jun 2019 11:37

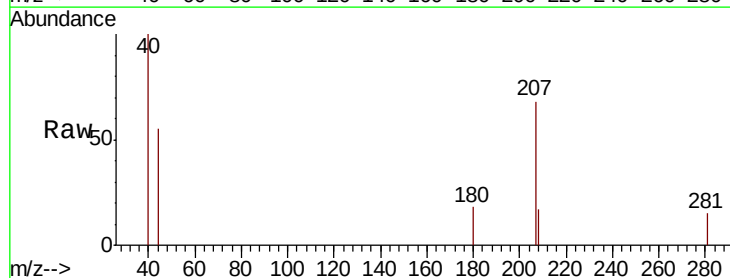
Tgt Ion:180 Resp: 148

Ion Ratio Lower Upper

180 100

182 0.0 47.9 143.7#

145 0.0 14.9 44.7#



Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.90 (144.60 to 145.60): V

