

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN053119\  
 Data File : VN055921.D  
 Acq On : 31 May 2019 15:58  
 Operator : JC/SP  
 Sample : K3134-04  
 Misc : 5.00mL/MSVOA N/WATER  
 ALS Vial : 16 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 STORAGE-BLANK-SAMPLE-MANA

Quant Time: May 31 18:07:13 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N052319W.M  
 Quant Title : SW846 8260  
 QLast Update : Fri May 24 06:41:54 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.66  | 168  | 371828   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.58  | 114  | 556672   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.41 | 117  | 510743   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.34 | 152  | 162952   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|-----------------------------|-------|------|----------|--------|--------|----------|
| 33) 1,2-Dichloroethane-d4   | 8.03  | 65   | 187649   | 48.87  | ug/l   | 0.00     |
| Spiked Amount               |       |      |          | 50.000 |        |          |
|                             |       |      | Recovery | =      | 97.74% |          |
| 35) Dibromofluoromethane    | 7.59  | 113  | 163673   | 46.51  | ug/l   | 0.00     |
| Spiked Amount               |       |      |          | 50.000 |        |          |
|                             |       |      | Recovery | =      | 93.02% |          |
| 50) Toluene-d8              | 10.09 | 98   | 664247   | 49.20  | ug/l   | 0.00     |
| Spiked Amount               |       |      |          | 50.000 |        |          |
|                             |       |      | Recovery | =      | 98.40% |          |
| 62) 4-Bromofluorobenzene    | 12.40 | 95   | 210336   | 45.44  | ug/l   | 0.00     |
| Spiked Amount               |       |      |          | 50.000 |        |          |
|                             |       |      | Recovery | =      | 90.88% |          |

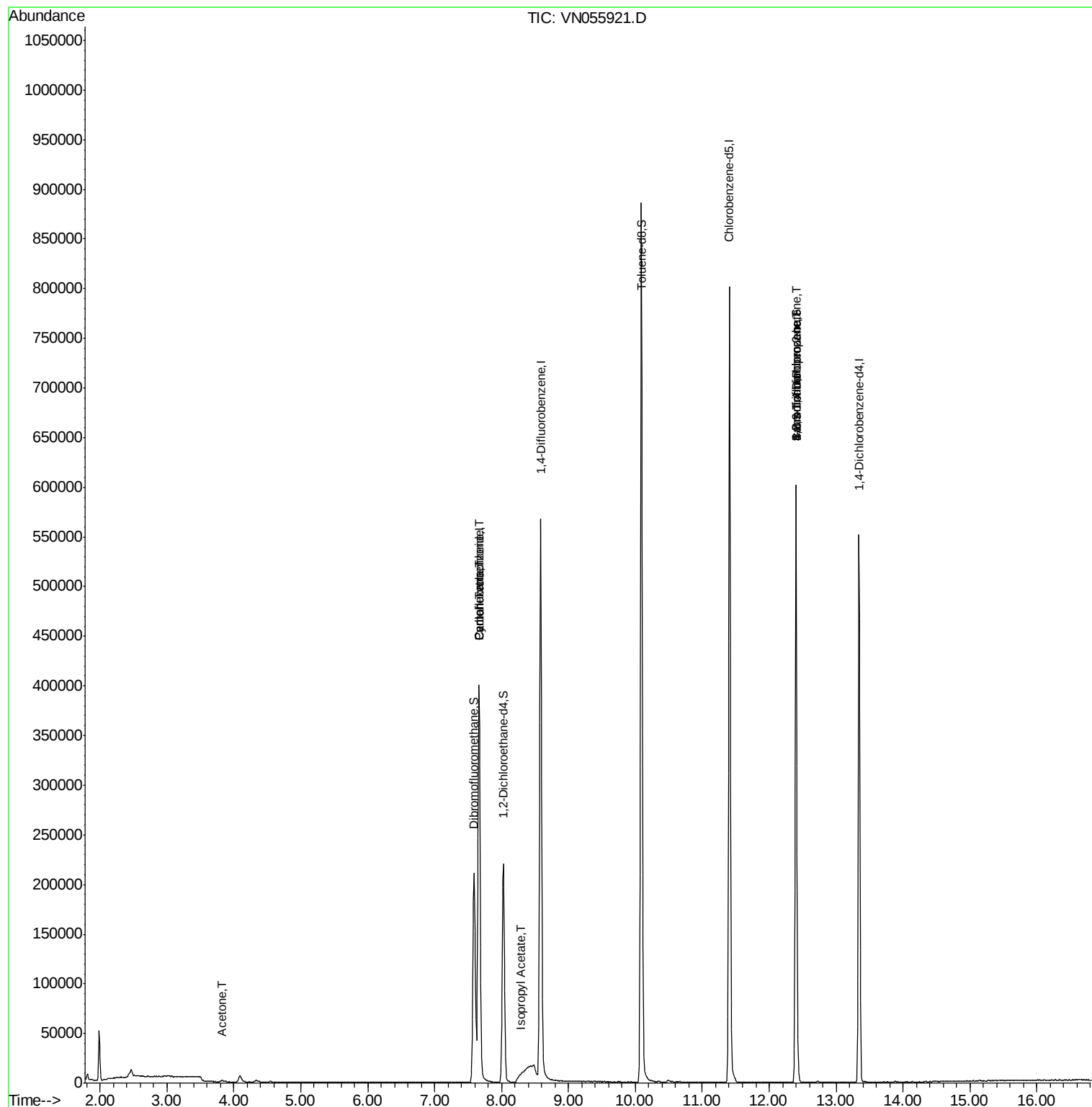
| Target Compounds               | R.T.  | QIon | Response | Conc      | Units  | Qvalue |
|--------------------------------|-------|------|----------|-----------|--------|--------|
| 16) Acetone                    | 3.82  | 43   | 3475     | 2.059     | ug/l   | 93     |
| 18) Methyl Acetate             | 4.33  | 43   | 4318     | Below Cal | #      | 88     |
| 31) Cyclohexane                | 7.66  | 56   | 5663     | 0.983     | ug/l # | 1      |
| 38) Carbon Tetrachloride       | 7.66  | 117  | 30793    | 6.094     | ug/l # | 15     |
| 43) Isopropyl Acetate          | 8.27  | 43   | 7538     | 0.957     | ug/l # | 53     |
| 71) Bromoform                  | 12.40 | 173  | 1531     | 0.440     | ug/l # | 1      |
| 73) Isopropylbenzene           | 12.39 | 105  | 92       | Below Cal | #      | 48     |
| 74) N-amyl acetate             | 12.07 | 43   | 236      | Below Cal | #      | 43     |
| 76) 1,2,3-Trichloropropane     | 12.40 | 75   | 97761    | 33.823    | ug/l # | 100    |
| 79) 2-Chlorotoluene            | 12.59 | 91   | 67       | Below Cal | #      | 39     |
| 81) trans-1,4-Dichloro-2-buten | 12.40 | 75   | 97761    | 80.720    | ug/l # | 15     |
| 84) 1,2,4-Trimethylbenzene     | 13.17 | 105  | 31       | Below Cal | #      | 30     |
| 85) sec-Butylbenzene           | 13.17 | 105  | 31       | Below Cal | #      | 55     |

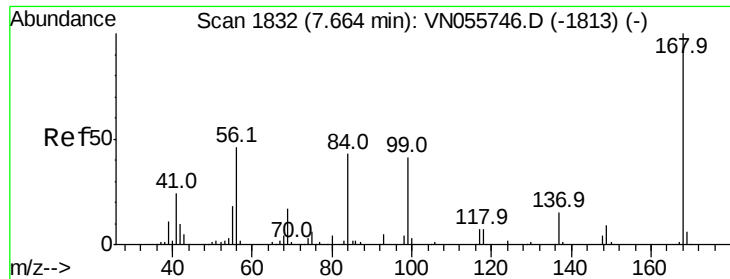
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA N\DATA\VN053119\  
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Sample : K3134-04  
Misc : 5.00mL/MSVOA N/WATER  
ALS Vial : 16 Sample Multiplier: 1

Instrument :  
MSVOA\_N  
ClientSampleId :  
STORAGE-BLANK-SAMPLE-MANA

Quant Time: May 31 18:07:13 2019  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_N\METHODS\82N052319W.M  
Quant Title : SW846 8260  
QLast Update : Fri May 24 06:41:54 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: VN055921.D

Acq: 31 May 2019 15:58

Instrument :

MSVOA\_N

ClientSampleId :

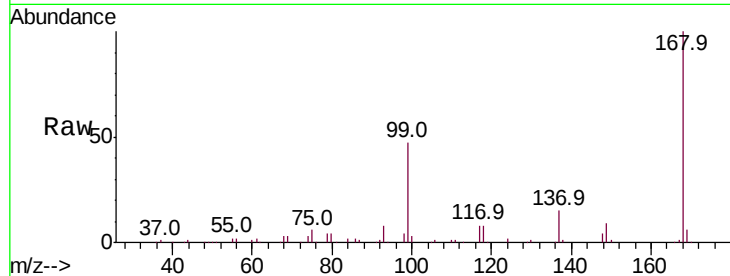
STORAGE-BLANK-SAMPLE-MANA

Tot Ion:168 Resp: 371828

Ion Ratio Lower Upper

168 100

99 46.8 37.2 55.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN0

7.66

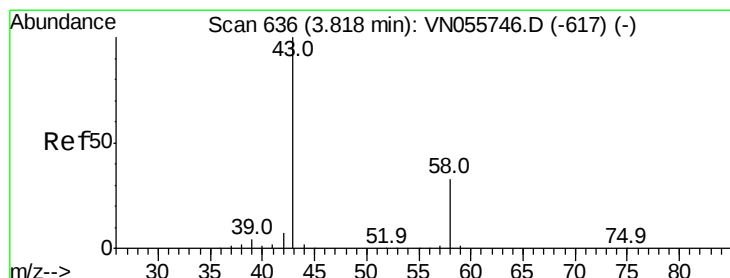
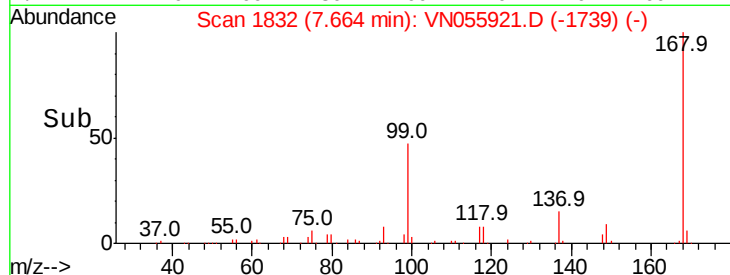
150000

100000

50000

0

Time--> 7.50 7.60 7.70 7.80



#16

Acetone

Concen: 2.059 ug/l

RT: 3.82 min Scan# 637

Delta R.T. 0.00 min

Lab File: VN055921.D

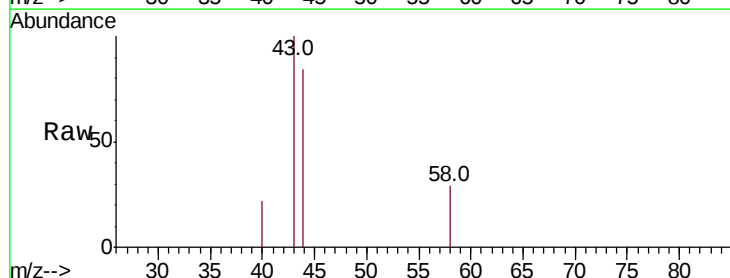
Acq: 31 May 2019 15:58

Tgt Ion: 43 Resp: 3475

Ion Ratio Lower Upper

43 100

58 29.1 26.6 39.8



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

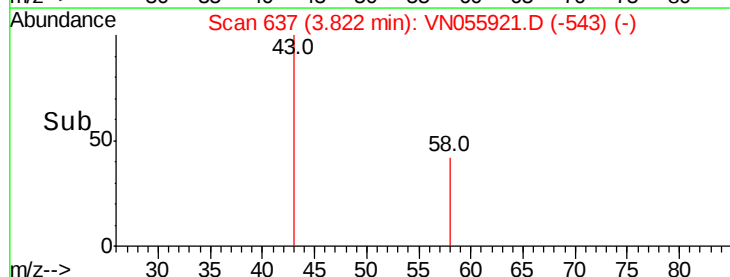
3.82

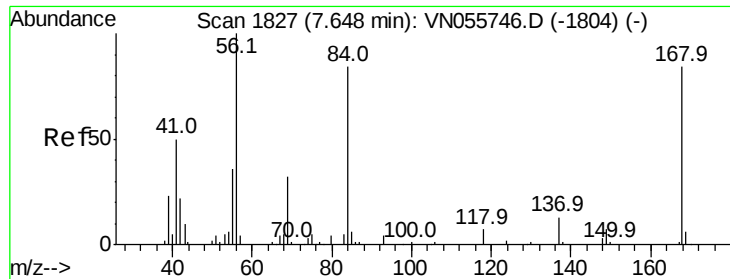
1000

500

0

Time--> 3.75 3.80 3.85 3.90

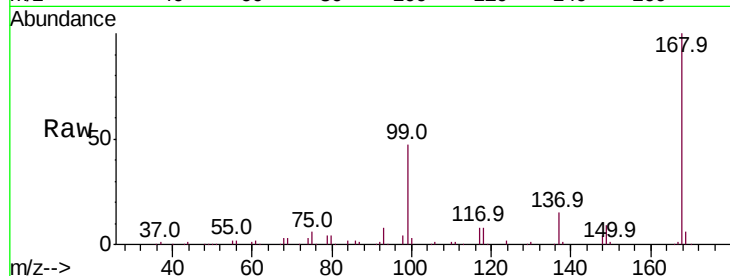




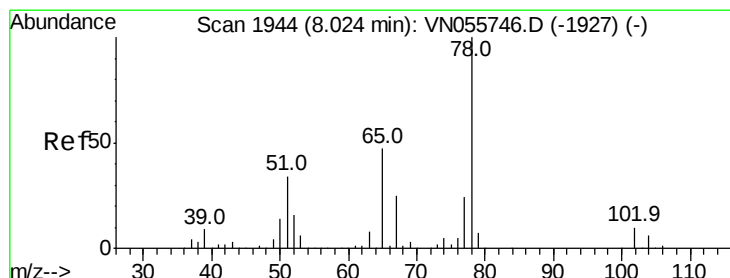
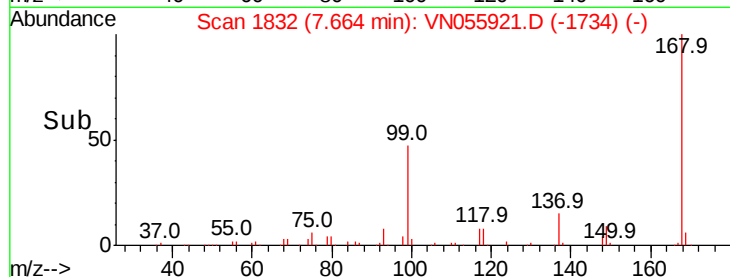
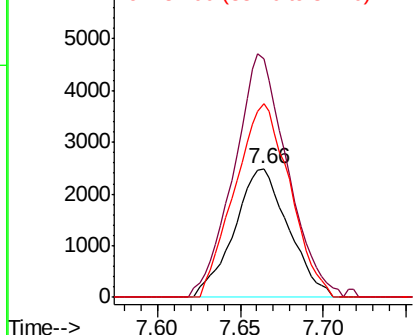
#31  
Cyclohexane  
Concen: 0.983 ug/l  
RT: 7.66 min Scan# 1832  
Delta R.T. 0.02 min  
Lab File: VN055921.D  
Acq: 31 May 2019 15:58

Instrument :  
MSVOA\_N  
ClientSampleId :  
STORAGE-BLANK-SAMPLE-MANA

Tot Ion: 56 Resp: 5663  
Ion Ratio Lower Upper  
56 100  
69 184.8 25.6 38.4#  
84 150.4 67.4 101.0#

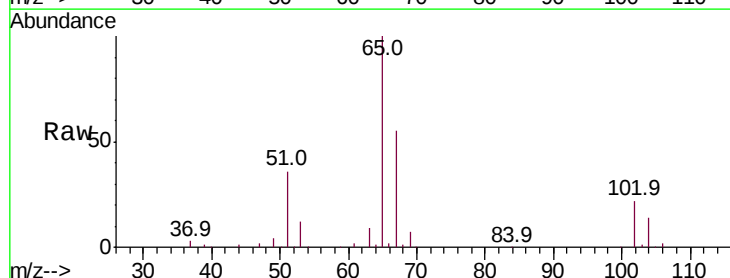


Abundance Ion 56.00 (55.70 to 56.70): VN0  
Ion 69.00 (68.70 to 69.70): VN0  
Ion 84.00 (83.70 to 84.70): VN0

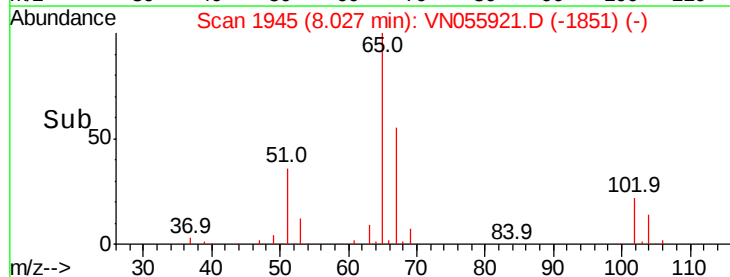
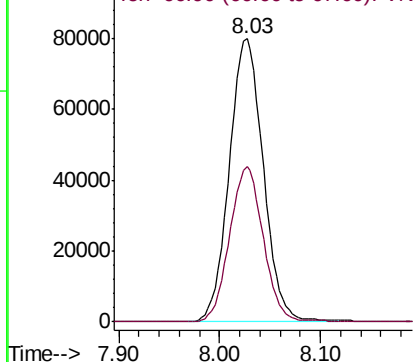


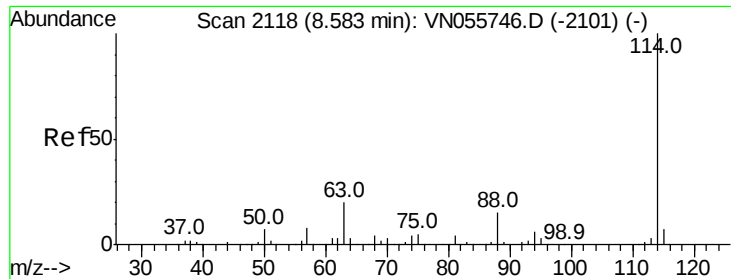
#33  
1,2-Dichloroethane-d4  
Concen: 48.868 ug/l  
RT: 8.03 min Scan# 1945  
Delta R.T. 0.00 min  
Lab File: VN055921.D  
Acq: 31 May 2019 15:58

Tgt Ion: 65 Resp: 187649  
Ion Ratio Lower Upper  
65 100  
67 54.2 0.0 109.2



Abundance Ion 64.90 (64.60 to 65.60): VN0  
Ion 66.90 (66.60 to 67.60): VN0

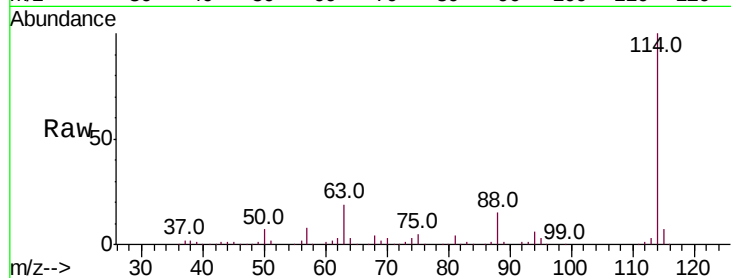




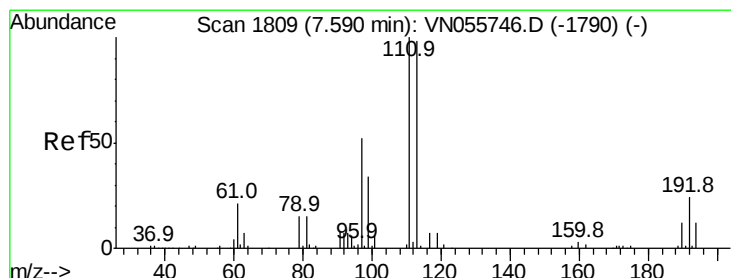
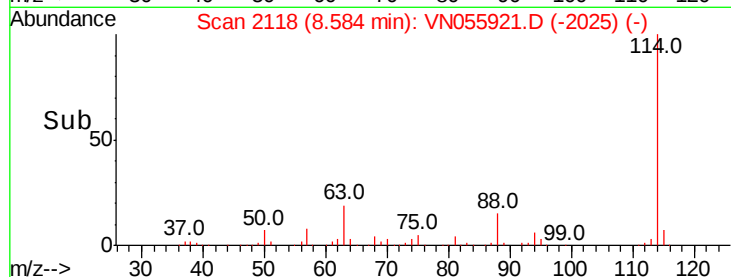
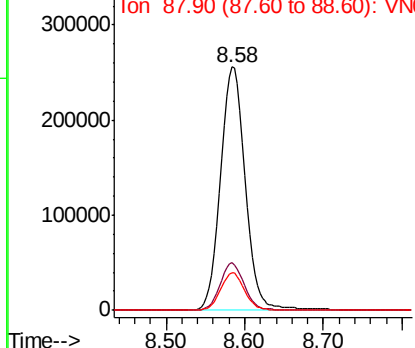
#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.58 min Scan# 2118  
 Delta R.T. 0.00 min  
 Lab File: VN055921.D  
 Acq: 31 May 2019 15:58

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 STORAGE-BLANK-SAMPLE-MANA

|          |       |       |        |
|----------|-------|-------|--------|
| Tot Ion: | 114   | Resp: | 556672 |
| Ion      | Ratio | Lower | Upper  |
| 114      | 100   |       |        |
| 63       | 19.4  | 0.0   | 39.2   |
| 88       | 15.4  | 0.0   | 31.0   |

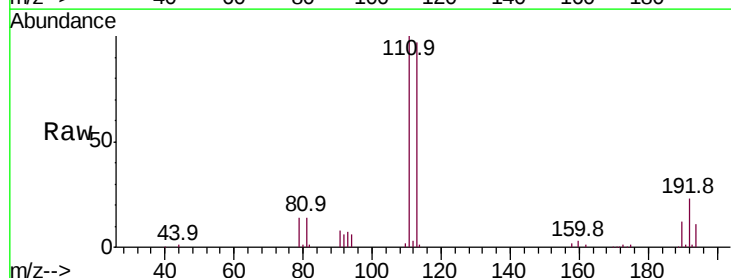


Abundance Ion 113.90 (113.60 to 114.60): V  
 Ion 63.00 (62.70 to 63.70): VN  
 Ion 87.90 (87.60 to 88.60): VN

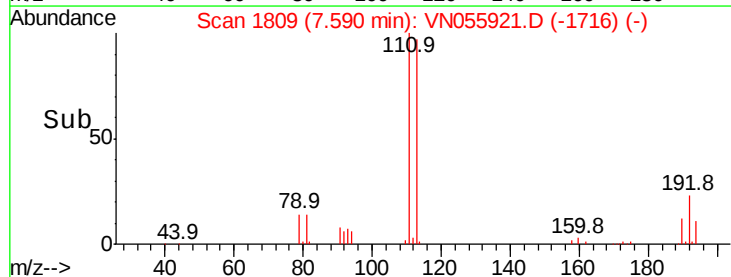
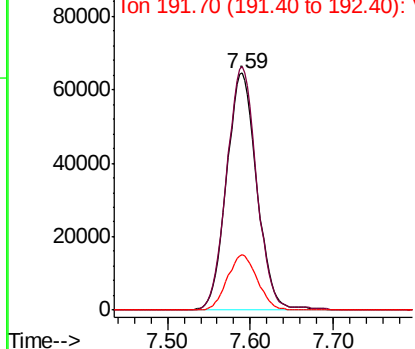


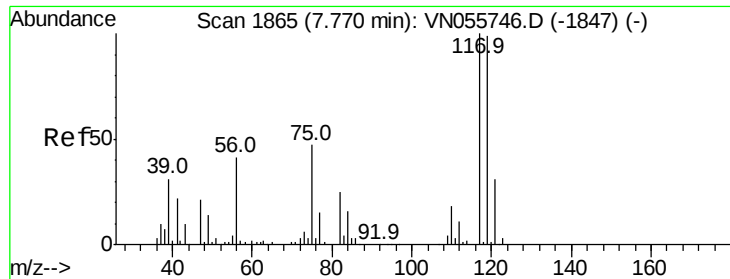
#35  
 Dibromofluoromethane  
 Concen: 46.505 ug/l  
 RT: 7.59 min Scan# 1809  
 Delta R.T. 0.00 min  
 Lab File: VN055921.D  
 Acq: 31 May 2019 15:58

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 113   | Resp: | 163673 |
| Ion      | Ratio | Lower | Upper  |
| 113      | 100   |       |        |
| 111      | 102.3 | 81.9  | 122.9  |
| 192      | 23.0  | 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





#38

Carbon Tetrachloride

Concen: 6.094 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. -0.11 min

Lab File: VN055921.D

Acq: 31 May 2019 15:58

Instrument :

MSVOA\_N

ClientSampleId :

STORAGE-BLANK-SAMPLE-MANA

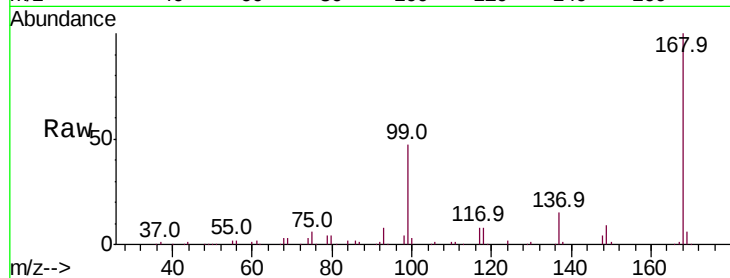
Tot Ion:117 Resp: 30793

Ion Ratio Lower Upper

117 100

119 4.9 79.0 118.6#

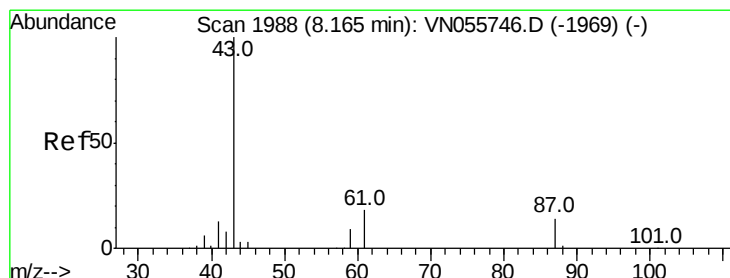
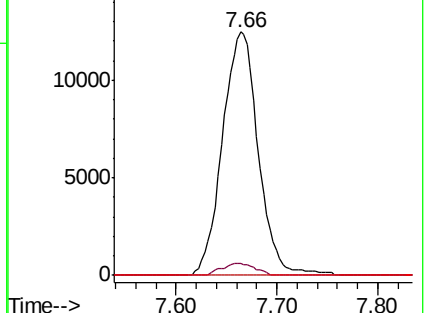
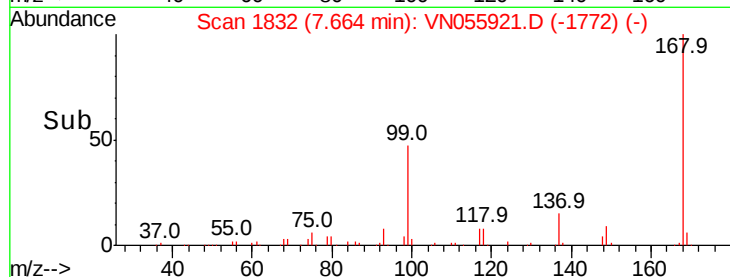
121 0.0 24.7 37.1#



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



#43

Isopropyl Acetate

Concen: 0.957 ug/l

RT: 8.27 min Scan# 2022

Delta R.T. 0.11 min

Lab File: VN055921.D

Acq: 31 May 2019 15:58

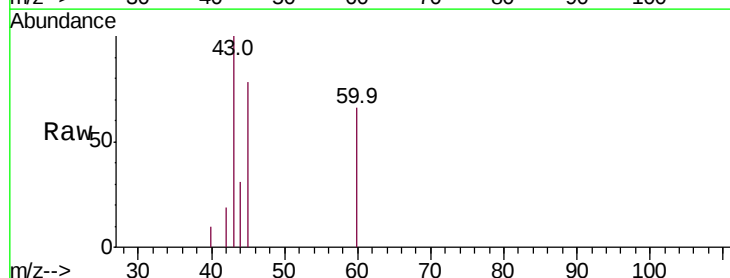
Tgt Ion: 43 Resp: 7538

Ion Ratio Lower Upper

43 100

61 0.0 22.2 33.4#

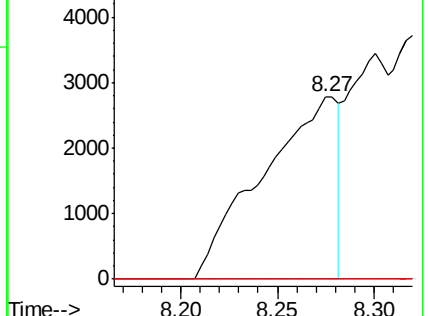
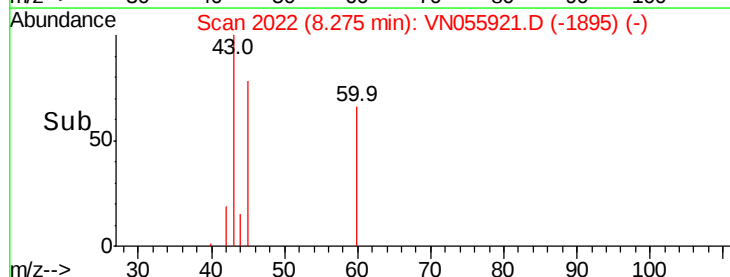
87 0.0 11.4 17.2#

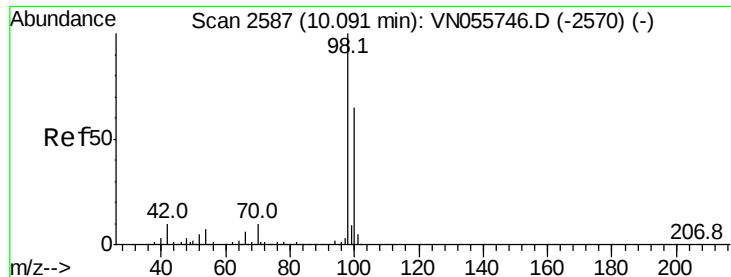


Abundance Ion 43.00 (42.70 to 43.70): V

Ion 61.00 (60.70 to 61.70): V

Ion 87.00 (86.70 to 87.70): V





#50

Toluene-d8

Concen: 49.202 ug/l

RT: 10.09 min Scan# 2586

Delta R.T. -0.00 min

Lab File: VN055921.D

Acq: 31 May 2019 15:58

Instrument :

MSVOA\_N

ClientSampleId :

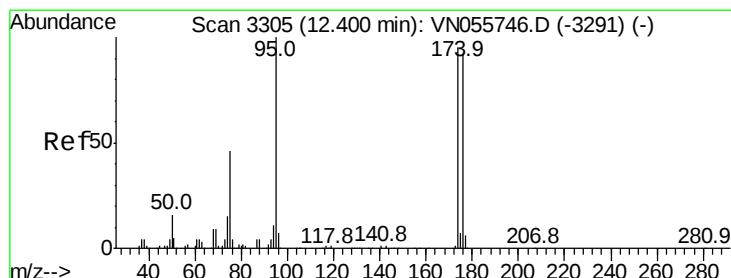
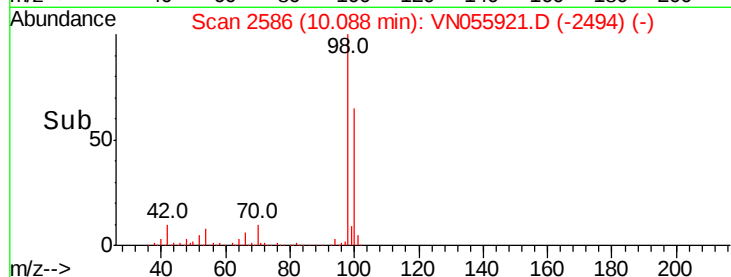
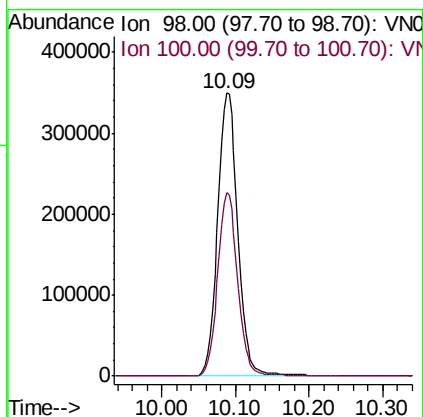
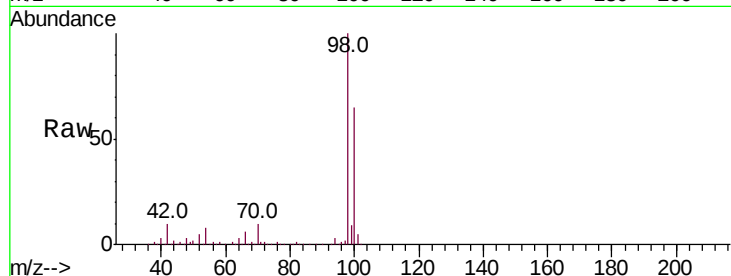
STORAGE-BLANK-SAMPLE-MANA

Tot Ion: 98 Resp: 664247

Ion Ratio Lower Upper

98 100

100 64.0 51.9 77.9



#62

4-Bromofluorobenzene

Concen: 45.438 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.00 min

Lab File: VN055921.D

Acq: 31 May 2019 15:58

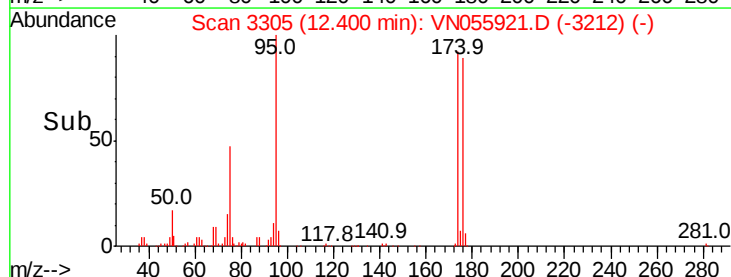
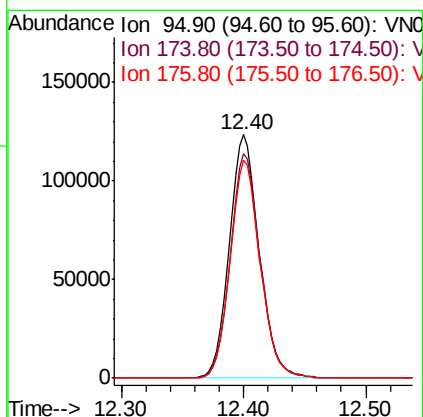
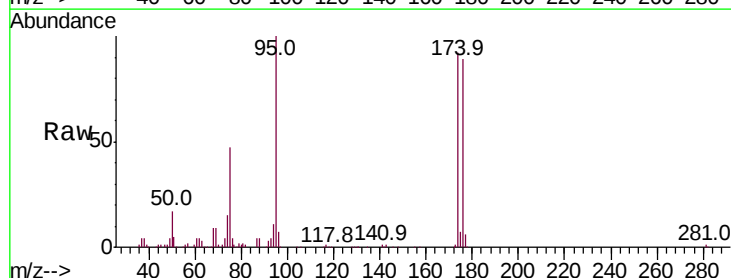
Tgt Ion: 95 Resp: 210336

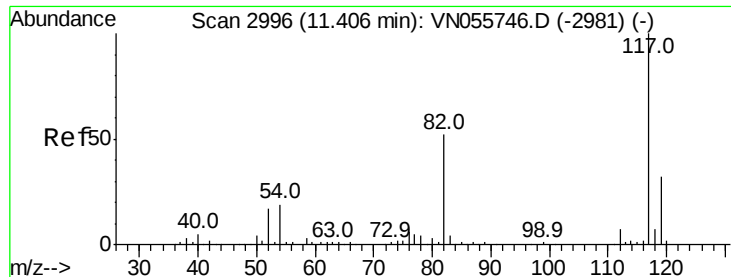
Ion Ratio Lower Upper

95 100

174 92.8 0.0 191.0

176 89.8 0.0 185.2

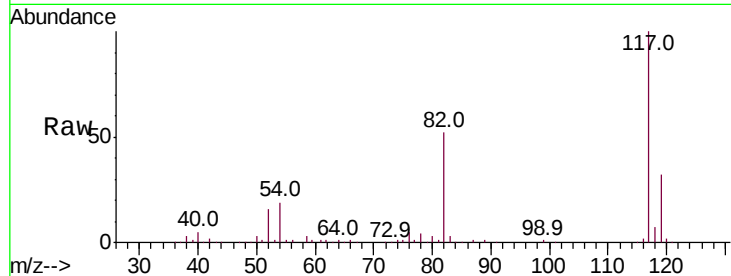




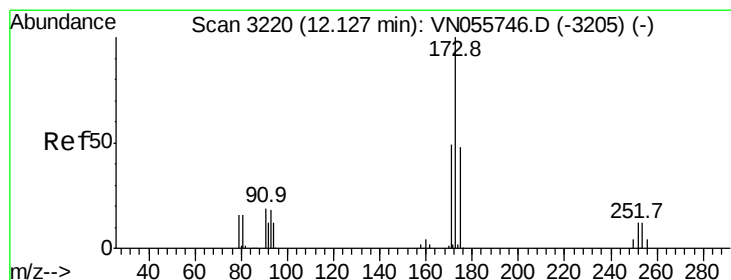
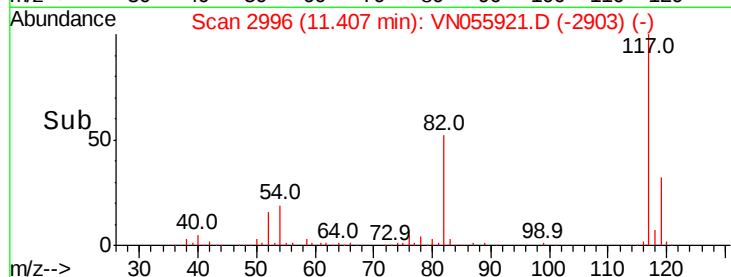
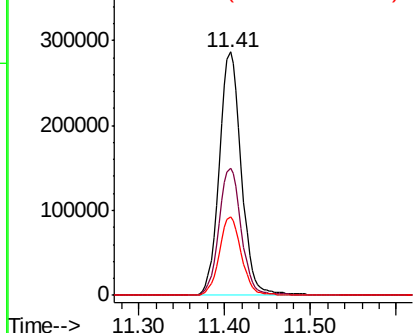
#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.41 min Scan# 2996  
Delta R.T. 0.00 min  
Lab File: VN055921.D  
Acq: 31 May 2019 15:58

Instrument :  
MSVOA\_N  
ClientSampleId :  
STORAGE-BLANK-SAMPLE-MANA

Tot Ion:117 Resp: 510743  
Ion Ratio Lower Upper  
117 100  
82 52.2 41.8 62.8  
119 32.1 25.4 38.0

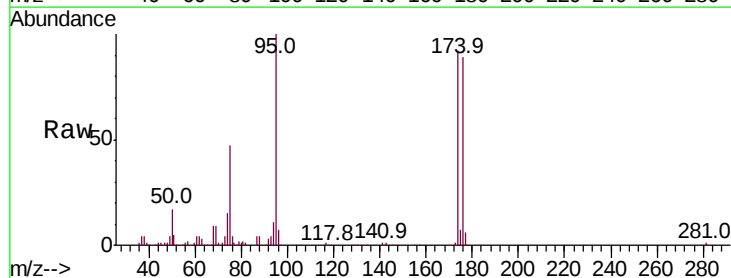


Abundance Ion 116.90 (116.60 to 117.60): V  
Ion 82.00 (81.70 to 82.70): V  
Ion 118.90 (118.60 to 119.60): V

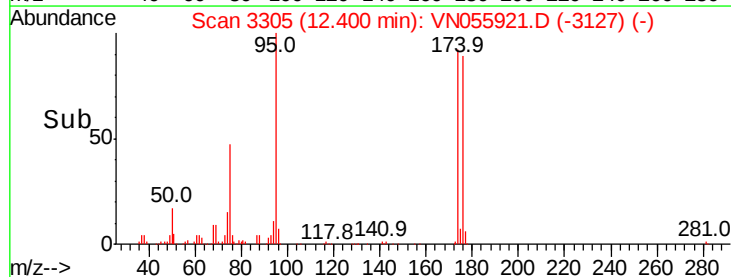
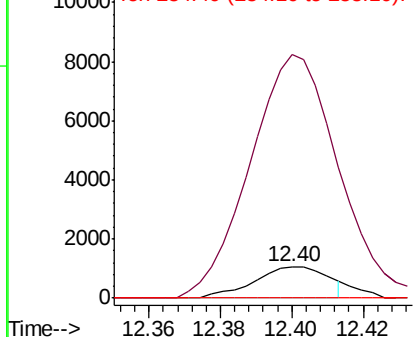


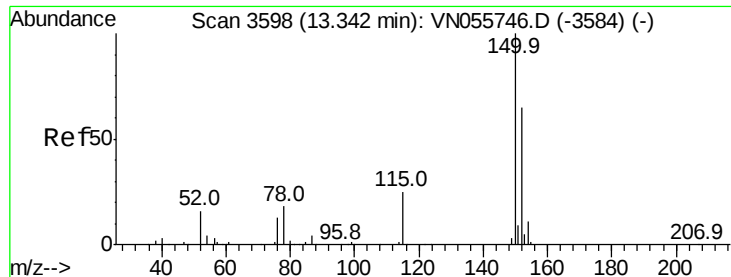
#71  
Bromoform  
Concen: 0.440 ug/l  
RT: 12.40 min Scan# 3305  
Delta R.T. 0.27 min  
Lab File: VN055921.D  
Acq: 31 May 2019 15:58

Tgt Ion:173 Resp: 1531  
Ion Ratio Lower Upper  
173 100  
175 811.2 24.3 72.8#  
254 0.0 0.0 0.0



Abundance Ion 172.70 (172.40 to 173.40): V  
Ion 174.70 (174.40 to 175.40): V  
Ion 254.40 (254.10 to 255.10): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.34 min Scan# 3598

Delta R.T. 0.00 min

Lab File: VN055921.D

Acq: 31 May 2019 15:58

Instrument :

MSVOA\_N

ClientSampleId :

STORAGE-BLANK-SAMPLE-MANA

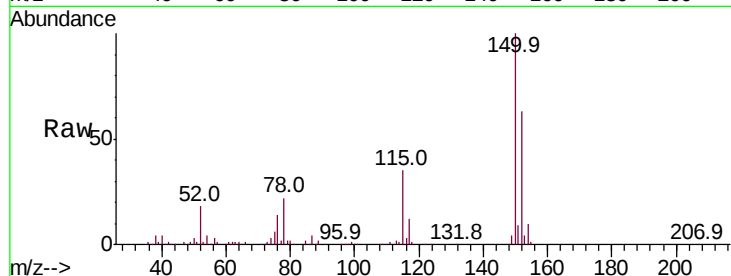
Tot Ion:152 Resp: 162952

Ion Ratio Lower Upper

152 100

115 54.0 27.0 81.0

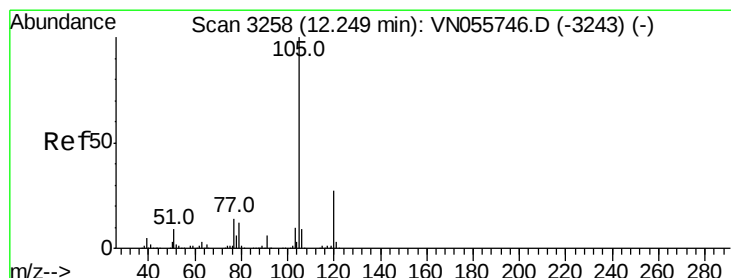
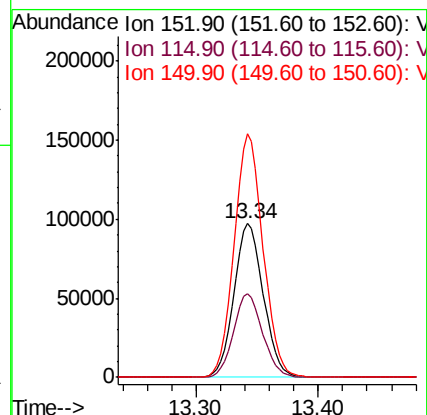
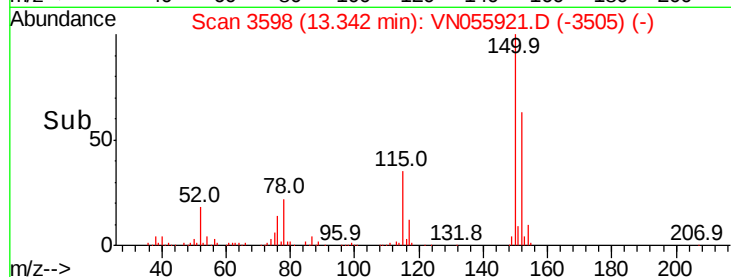
150 156.0 0.0 343.2



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: 12.39 min Scan# 3303

Delta R.T. 0.15 min

Lab File: VN055921.D

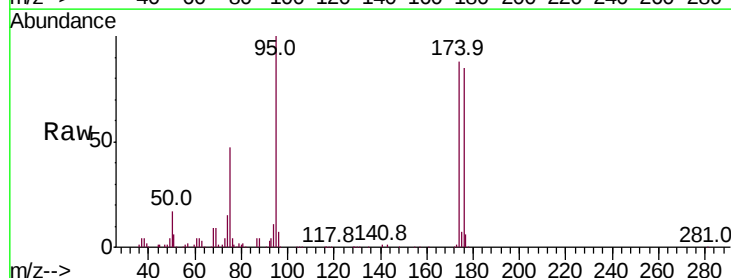
Acq: 31 May 2019 15:58

Tgt Ion:105 Resp: 92

Ion Ratio Lower Upper

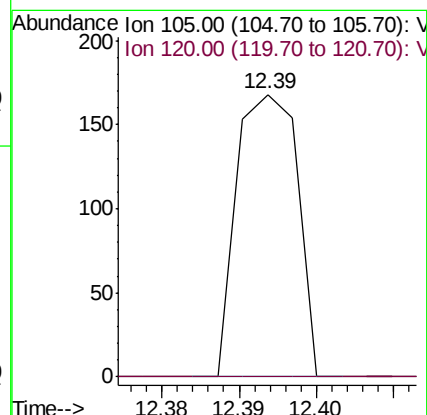
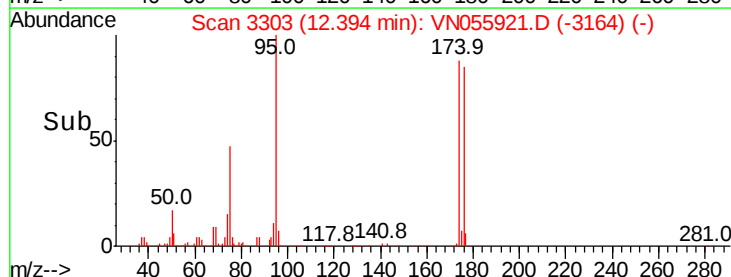
105 100

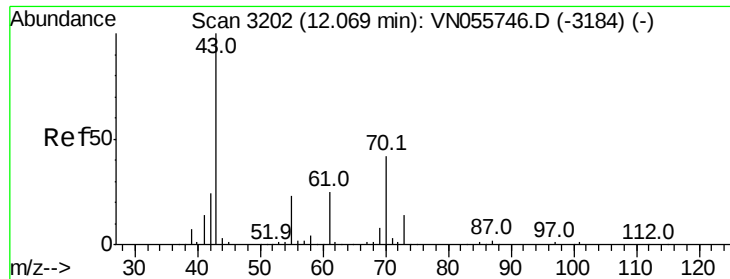
120 0.0 13.6 40.7#



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#74

N-amvl acetate

Concen: Below Cal

RT: 12.07 min Scan# 3203

Delta R.T. 0.00 min

Lab File: VN055921.D

Acq: 31 May 2019 15:58

Instrument :

MSVOA\_N

ClientSampleId :

STORAGE-BLANK-SAMPLE-MANA

Tot Ion: 43 Resp: 236

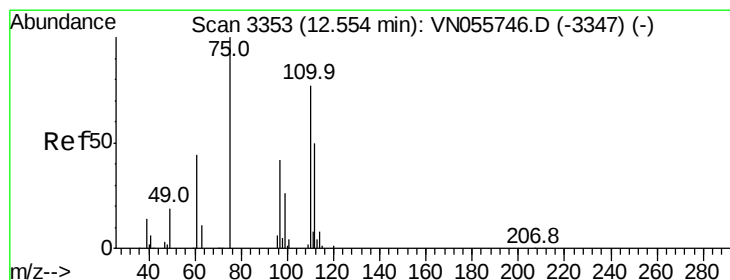
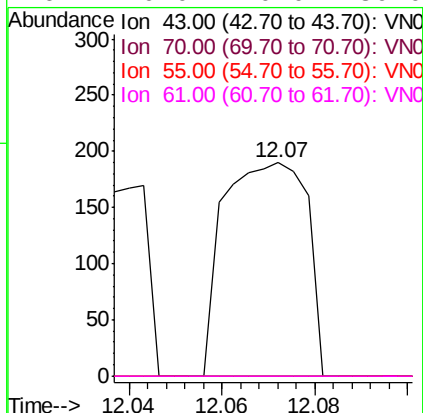
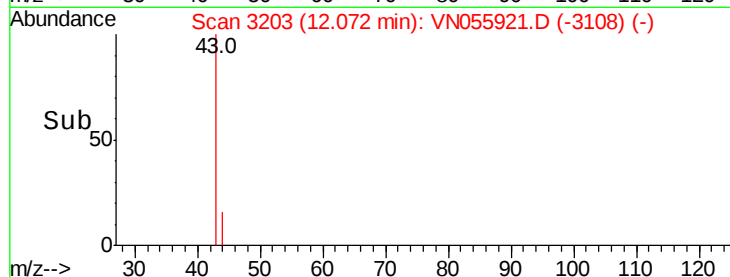
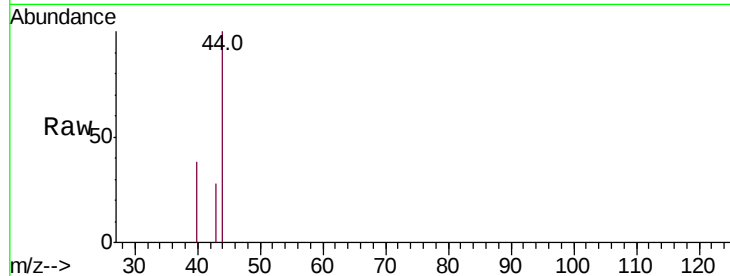
Ion Ratio Lower Upper

43 100

70 0.0 34.0 51.0#

55 0.0 18.6 28.0#

61 0.0 20.0 30.0#



#76

1,2,3-Trichloropropane

Concen: 33.823 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN055921.D

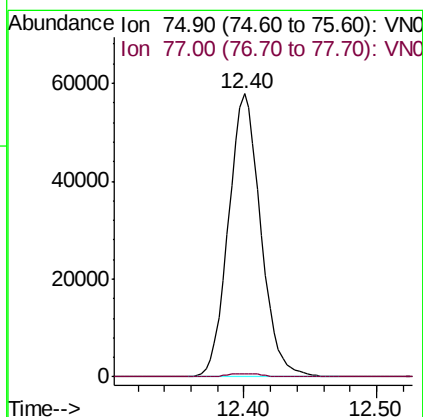
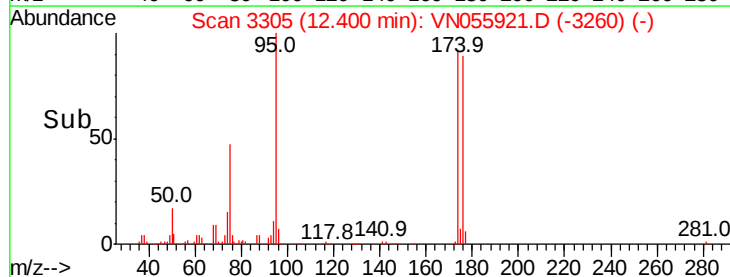
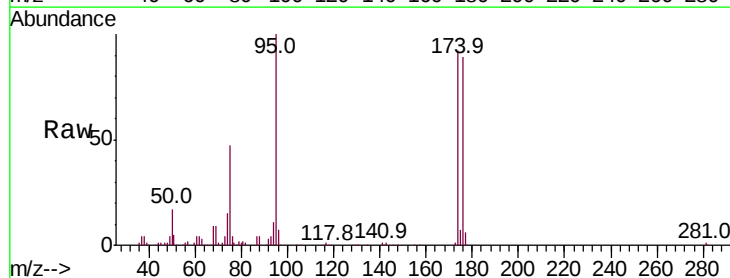
Acq: 31 May 2019 15:58

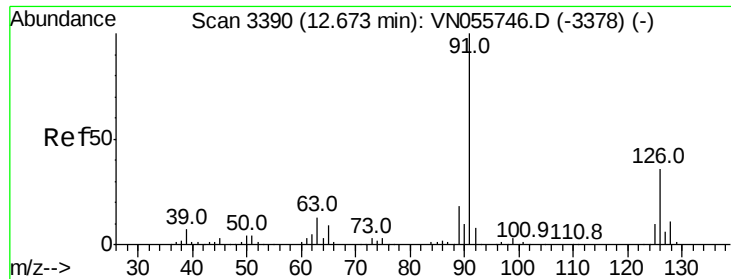
Tgt Ion: 75 Resp: 97761

Ion Ratio Lower Upper

75 100

77 1.3 0.0 0.0#





#79

2-Chlorotoluene

Concen: Below Cal

RT: 12.59 min Scan# 3365

Delta R.T. -0.08 min

Lab File: VN055921.D

Acq: 31 May 2019 15:58

Instrument :

MSVOA\_N

ClientSampleId :

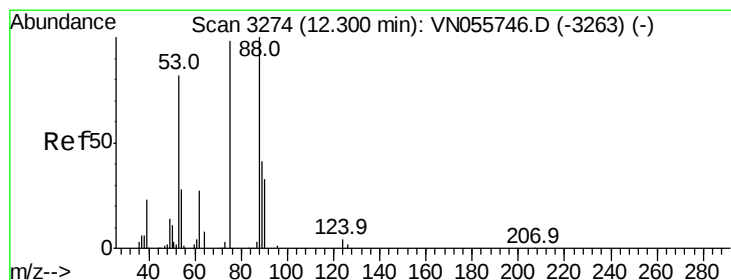
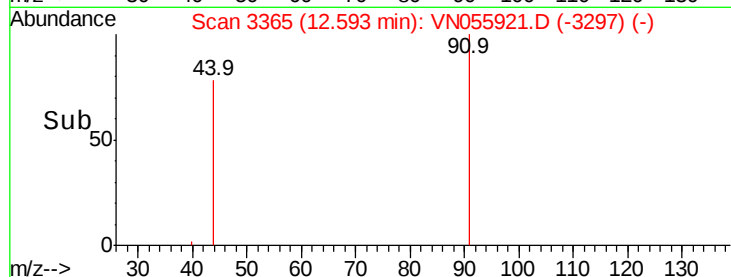
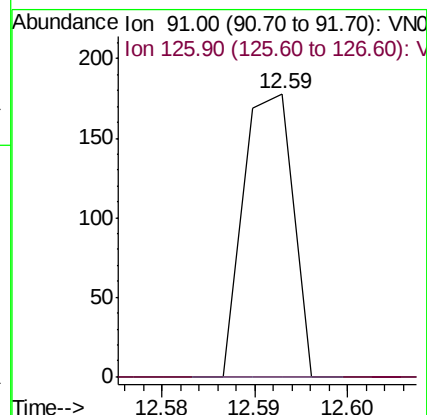
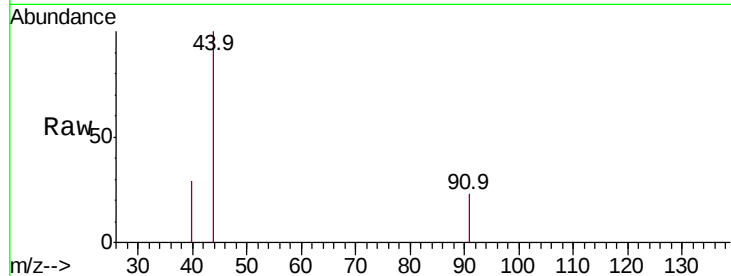
STORAGE-BLANK-SAMPLE-MANA

Tot Ion: 91 Resp: 67

Ion Ratio Lower Upper

91 100

126 0.0 18.1 54.4#



#81

trans-1,4-Dichloro-2-butene

Concen: 80.720 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN055921.D

Acq: 31 May 2019 15:58

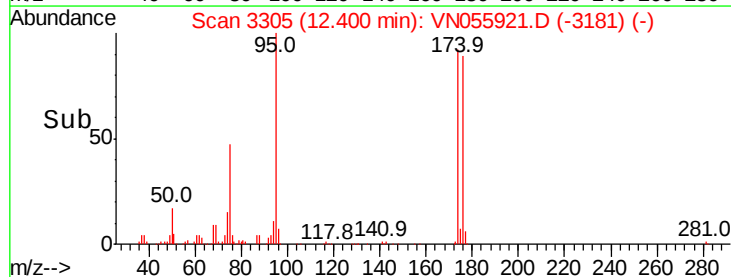
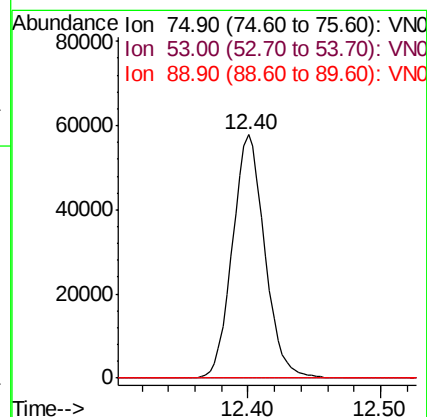
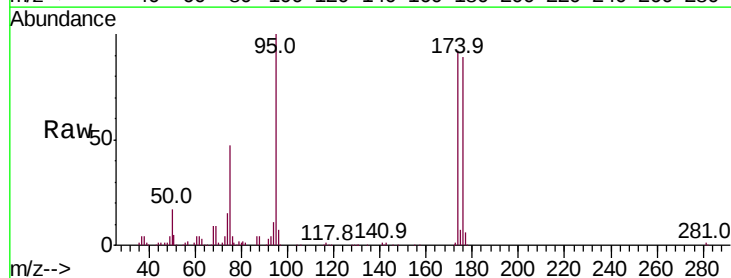
Tgt Ion: 75 Resp: 97761

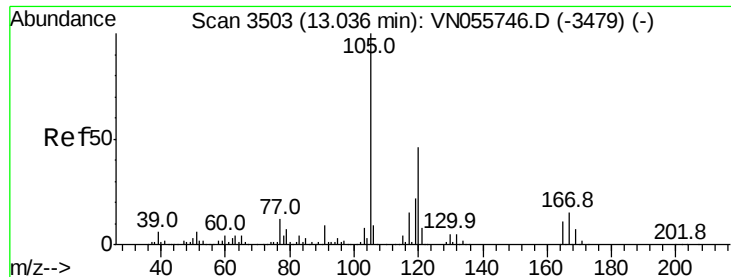
Ion Ratio Lower Upper

75 100

53 0.0 68.1 102.1#

89 0.0 36.9 55.3#

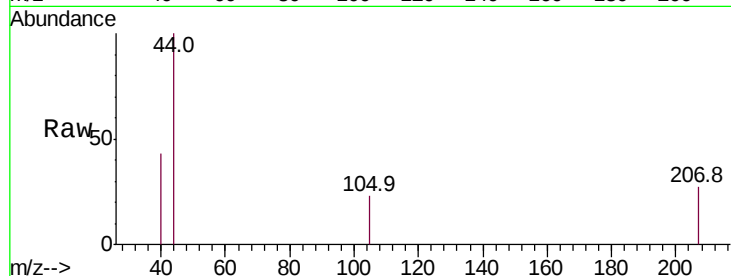




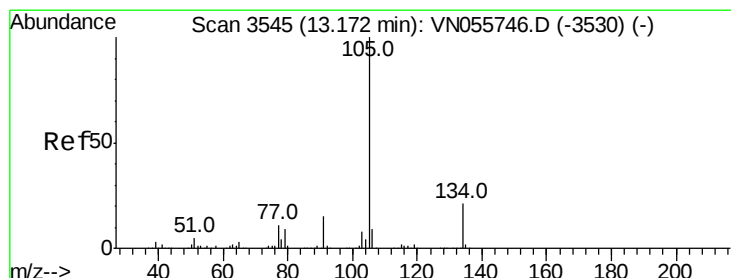
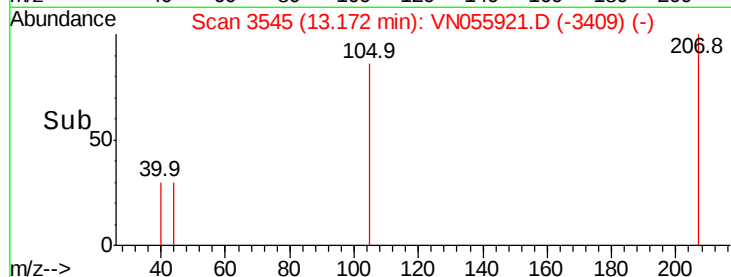
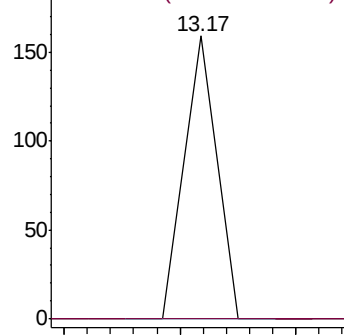
#84  
1,2,4-Trimethylbenzene  
Concen: Below Cal  
RT: 13.17 min Scan# 3545  
Delta R.T. 0.14 min  
Lab File: VN055921.D  
Acq: 31 May 2019 15:58

Instrument :  
MSVOA\_N  
ClientSampleId :  
STORAGE-BLANK-SAMPLE-MANA

Tot Ion:105 Resp: 31  
Ion Ratio Lower Upper  
105 100  
120 0.0 23.0 69.0#

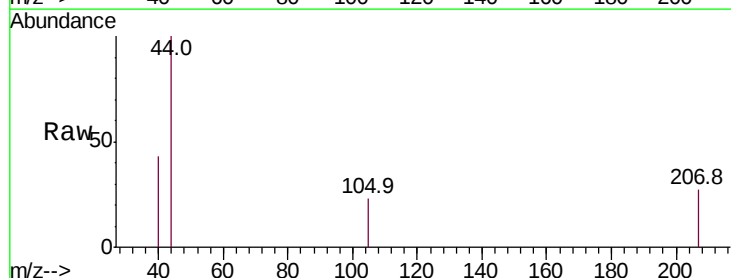


Abundance Ion 105.00 (104.70 to 105.70): V  
Ion 120.00 (119.70 to 120.70): V



#85  
sec-Butylbenzene  
Concen: Below Cal  
RT: 13.17 min Scan# 3545  
Delta R.T. 0.00 min  
Lab File: VN055921.D  
Acq: 31 May 2019 15:58

Tgt Ion:105 Resp: 31  
Ion Ratio Lower Upper  
105 100  
134 0.0 10.4 31.2#



Abundance Ion 105.00 (104.70 to 105.70): V  
Ion 134.00 (133.70 to 134.70): V

