

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN092319\  
 Data File : VN058327.D  
 Acq On : 24 Sep 2019 5:12  
 Operator : JC/SP  
 Sample : I.BLK  
 Misc : 5.00mL/MSVOA N/WATER  
 ALS Vial : 57 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :

Quant Time: Sep 24 07:11:44 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N091819W.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Sep 19 09:27:53 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.65  | 168  | 482701   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.57  | 114  | 791572   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.41 | 117  | 673448   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.35 | 152  | 282534   | 50.00 | ug/l  | 0.00     |

## System Monitoring Compounds

|                           |        |     |          |       |         |      |
|---------------------------|--------|-----|----------|-------|---------|------|
| 33) 1,2-Dichloroethane-d4 | 8.01   | 65  | 356748   | 53.06 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 106.12% |      |
| 35) Dibromofluoromethane  | 7.58   | 113 | 248147   | 51.57 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 103.14% |      |
| 50) Toluene-d8            | 10.08  | 98  | 996926   | 53.17 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 106.34% |      |
| 62) 4-Bromofluorobenzene  | 12.41  | 95  | 321625   | 46.18 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 92.36%  |      |

## Target Compounds

|                                |       |     |        |             | Qvalue |
|--------------------------------|-------|-----|--------|-------------|--------|
| 3) Chloromethane               | 2.04  | 50  | 892    | Below Cal   | 93     |
| 4) Vinyl Chloride              | 2.16  | 62  | 301    | Below Cal   | # 43   |
| 5) Bromomethane                | 2.56  | 94  | 1992   | 1.832 ug/l  | 97     |
| 6) Chloroethane                | 2.68  | 64  | 145    | Below Cal   | # 44   |
| 10) Methyl Iodide              | 3.94  | 142 | 949    | 0.290 ug/l  | # 60   |
| 12) 1,1-Dichloroethene         | 3.71  | 96  | 93     | Below Cal   | # 1    |
| 13) Acrolein                   | 3.58  | 56  | 206    | 1.738 ug/l  | # 15   |
| 17) Carbon Disulfide           | 4.04  | 76  | 2121   | 0.777 ug/l  | # 51   |
| 18) Methyl Acetate             | 4.31  | 43  | 2328   | 0.388 ug/l  | # 71   |
| 20) Methylene Chloride         | 4.54  | 84  | 1728   | 0.212 ug/l  | # 91   |
| 21) trans-1,2-Dichloroethene   | 5.01  | 96  | 280    | Below Cal   | # 15   |
| 31) Cyclohexane                | 7.65  | 56  | 12237  | Below Cal   | # 25   |
| 36) 1,1-Dichloropropene        | 7.65  | 75  | 40168  | 7.037 ug/l  | # 51   |
| 38) Carbon Tetrachloride       | 7.65  | 117 | 49063  | 8.550 ug/l  | # 15   |
| 41) Methacrylonitrile          | 7.15  | 41  | 109    | 0.947 ug/l  | # 100  |
| 43) Isopropyl Acetate          | 8.25  | 43  | 47502  | 4.293 ug/l  | # 58   |
| 49) 1,4-Dioxane                | 9.19  | 88  | 210    | 2.546 ug/l  | # 33   |
| 51) 4-Methyl-2-Pentanone       | 9.98  | 43  | 3887   | 0.661 ug/l  | # 87   |
| 59) 2-Hexanone                 | 10.75 | 43  | 5226   | 1.197 ug/l  | 89     |
| 71) Bromoform                  | 12.13 | 173 | 290    | 3.680 ug/l  | # 29   |
| 74) N-amyl acetate             | 12.08 | 43  | 3682   | 0.498 ug/l  | # 73   |
| 75) 1,1,2,2-Tetrachloroethane  | 12.51 | 83  | 1635   | 0.276 ug/l  | # 83   |
| 76) 1,2,3-Trichloropropane     | 12.41 | 75  | 180204 | 35.638 ug/l | # 100  |
| 77) Bromobenzene               | 12.53 | 156 | 1100   | 0.247 ug/l  | 99     |
| 81) trans-1,4-Dichloro-2-buten | 12.41 | 75  | 180204 | 99.587 ug/l | # 5    |
| 82) 4-Chlorotoluene            | 12.78 | 91  | 3884   | 0.294 ug/l  | 97     |
| 87) 1,3-Dichlorobenzene        | 13.29 | 146 | 3354   | 0.413 ug/l  | 95     |
| 88) 1,4-Dichlorobenzene        | 13.29 | 146 | 3354   | 0.404 ug/l  | 94     |
| 89) n-Butylbenzene             | 13.62 | 91  | 6190   | 0.421 ug/l  | 96     |
| 91) 1,2-Dichlorobenzene        | 13.66 | 146 | 3524   | 0.432 ug/l  | 96     |
| 92) 1,2-Dibromo-3-Chloropropan | 14.28 | 75  | 836    | 0.784 ug/l  | 83     |
| 93) 1,2,4-Trichlorobenzene     | 14.92 | 180 | 7604   | 1.460 ug/l  | 96     |
| 94) Hexachlorobutadiene        | 15.02 | 225 | 1626   | 0.646 ug/l  | 83     |
| 95) Naphthalene                | 15.14 | 128 | 41201  | 3.053 ug/l  | 100    |

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Quant Title : SW846 8260  
QLast Update : Thu Sep 19 09:27:53 2019  
Response via : Initial Calibration

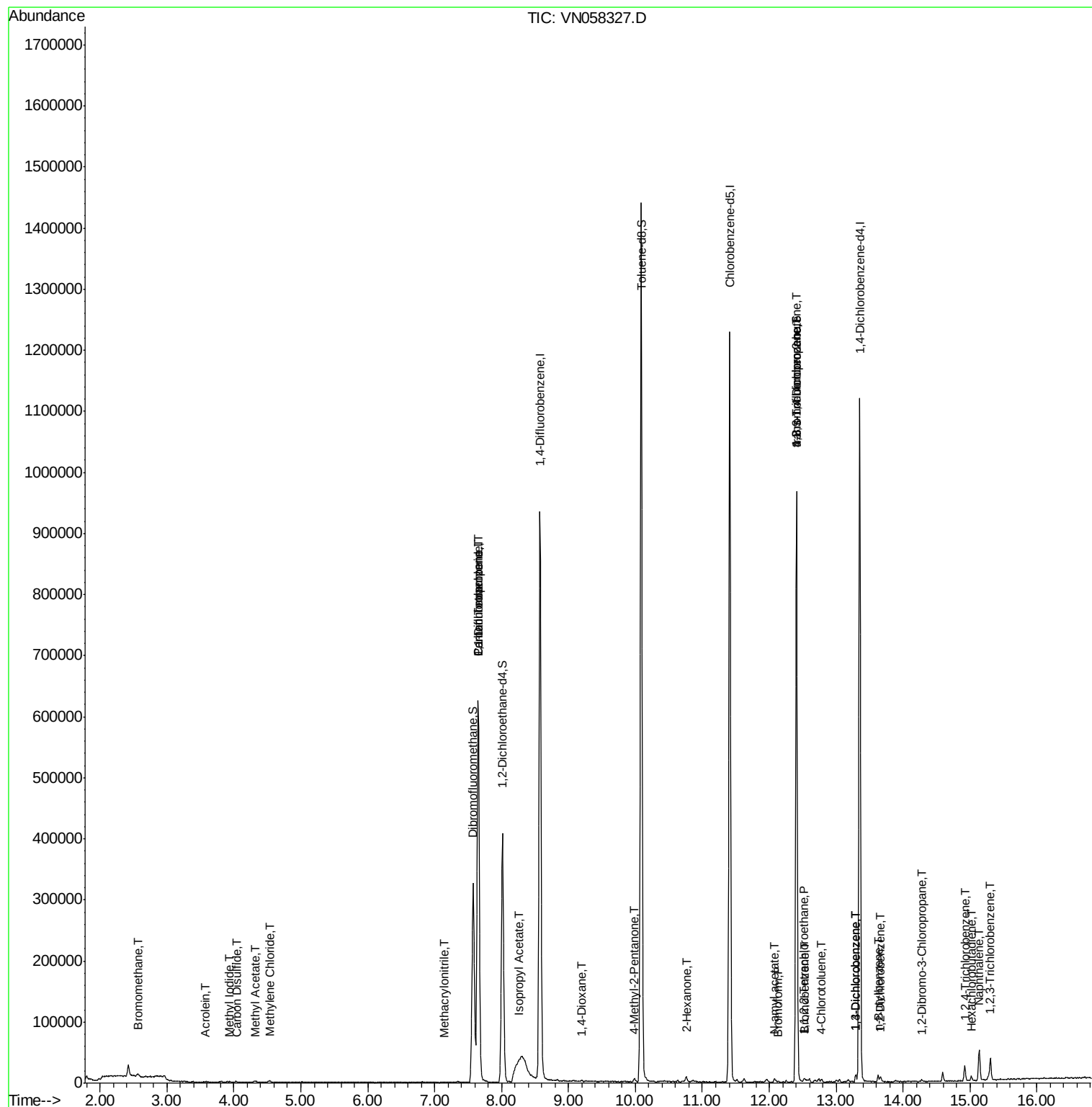
| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 96) 1,2,3-Trichlorobenzene | 15.30 | 180  | 10384    | 2.110 | ug/l  | 98       |

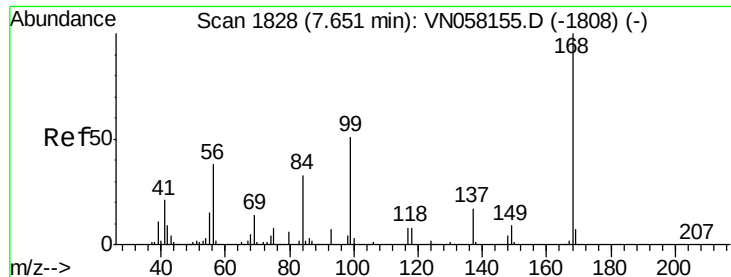
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA N\DATA\VN092319\  
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.65 min Scan# 1828

Delta R.T. -0.00 min

Lab File: VN058327.D

Acq: 24 Sep 2019 5:12

Instrument :

MSVOA\_N

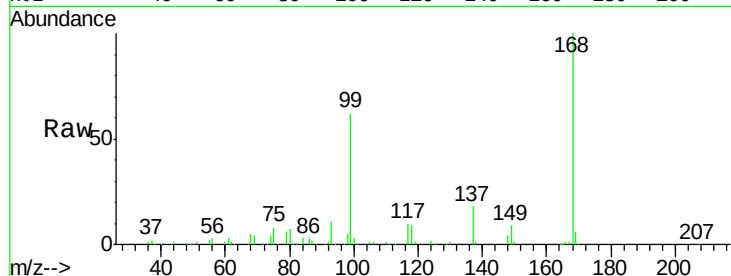
ClientSampled :

Tot Ion:168 Resp: 482701

Ion Ratio Lower Upper

168 100

99 61.8 47.4 71.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.65

200000

150000

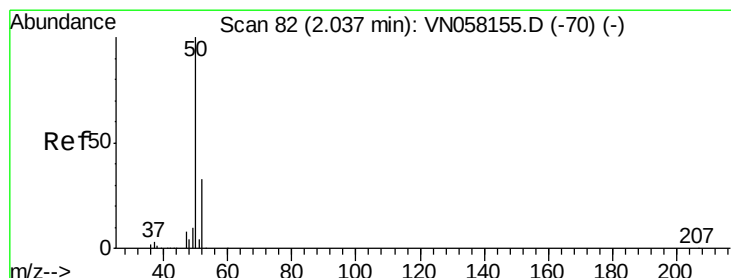
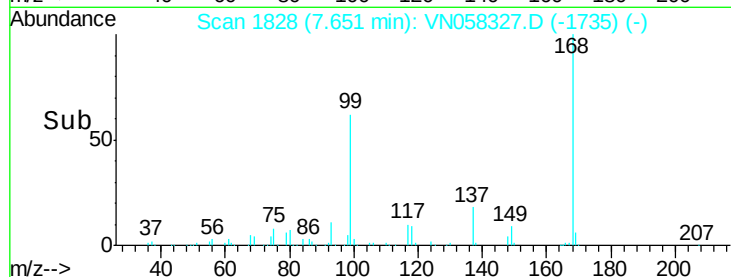
100000

50000

0

7.60 7.70 7.80

Time-->



#3

Chloromethane

Concen: Below Cal

RT: 2.04 min Scan# 82

Delta R.T. -0.00 min

Lab File: VN058327.D

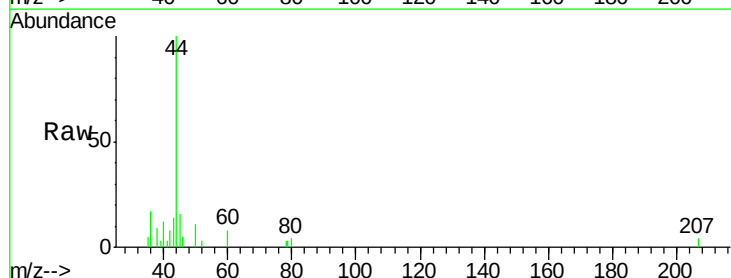
Acq: 24 Sep 2019 5:12

Tgt Ion: 50 Resp: 892

Ion Ratio Lower Upper

50 100

52 28.9 26.3 39.5



Abundance Ion 49.90 (49.60 to 50.60): VNO

Ion 51.90 (51.60 to 52.60): VNO

2.04

600

500

400

300

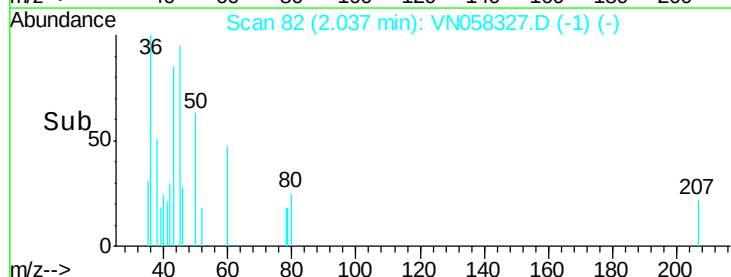
200

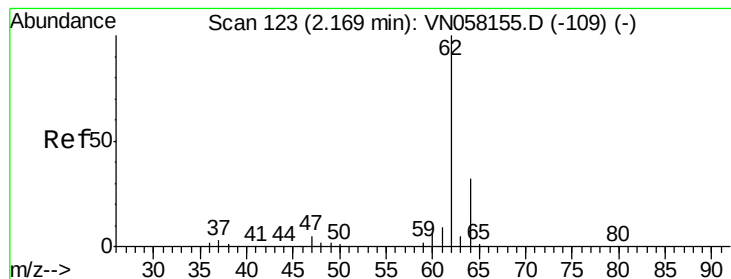
100

0

2.00 2.02 2.04 2.06 2.08

Time-->





#4

Vinyl Chloride

Concen: Below Cal

RT: 2.16 min Scan# 121

Delta R.T. -0.01 min

Lab File: VN058327.D

Acq: 24 Sep 2019 5:12

Instrument :

MSVOA\_N

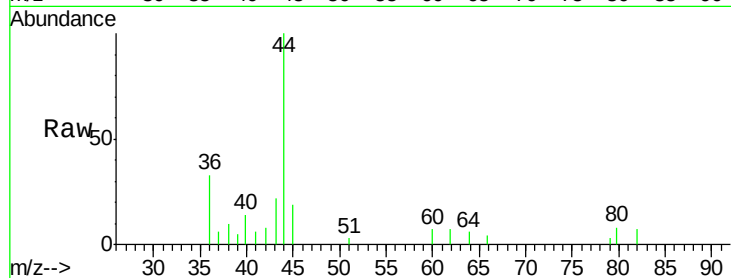
ClientSampleId :

Tot Ion: 62 Resp: 301

Ion Ratio Lower Upper

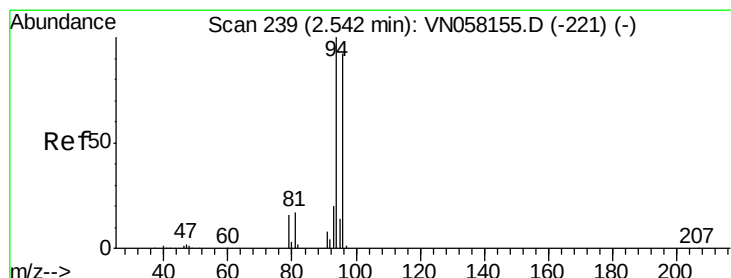
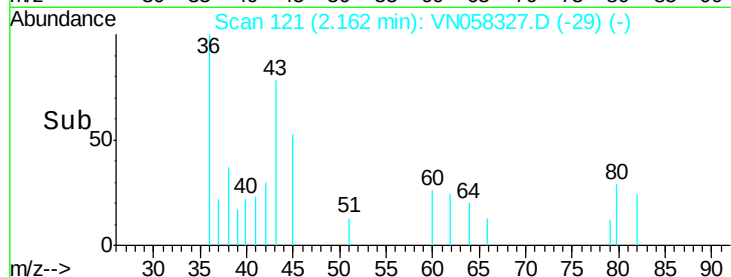
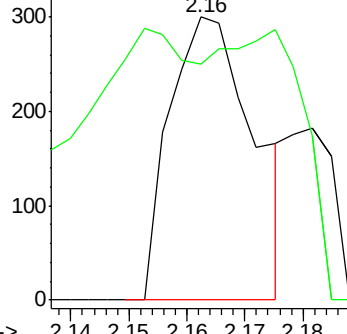
62 100

64 0.0 25.4 38.2#



Abundance Ion 61.90 (61.60 to 62.60): VNO

Ion 63.90 (63.60 to 64.60): VNO



#5

Bromomethane

Concen: 1.832 ug/l

RT: 2.56 min Scan# 244

Delta R.T. 0.02 min

Lab File: VN058327.D

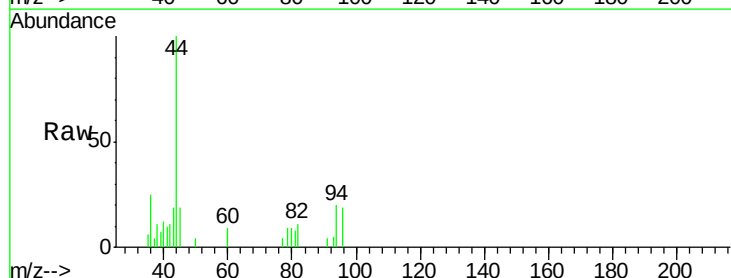
Acq: 24 Sep 2019 5:12

Tgt Ion: 94 Resp: 1992

Ion Ratio Lower Upper

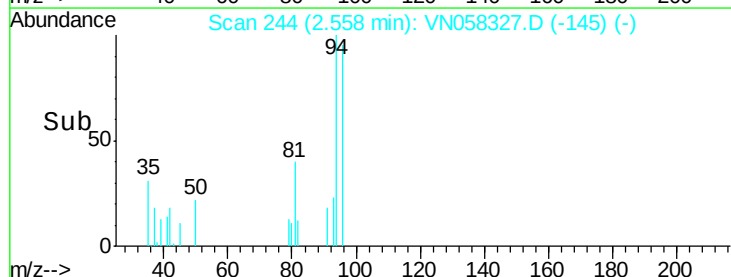
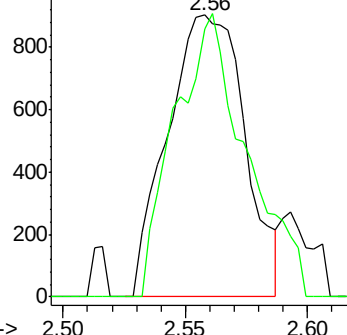
94 100

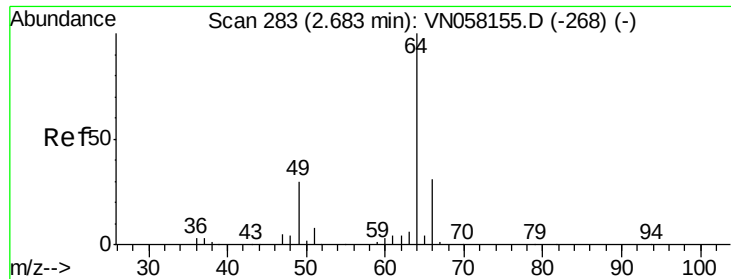
96 94.9 73.3 109.9



Abundance Ion 93.90 (93.60 to 94.60): VNO

Ion 95.90 (95.60 to 96.60): VNO





#6

Chloroethane

Concen: Below Cal

RT: 2.68 min Scan# 283

Delta R.T. 0.00 min

Lab File: VN058327.D

Acq: 24 Sep 2019 5:12

Instrument :

MSVOA\_N

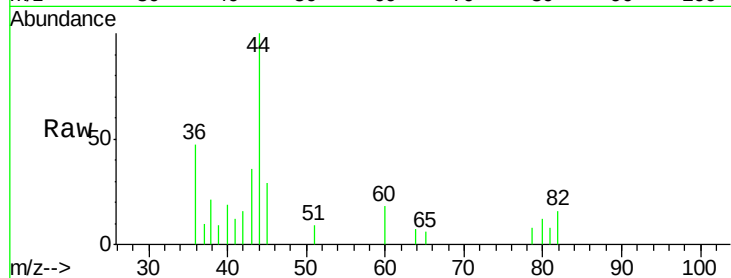
ClientSampled :

Tot Ion: 64 Resp: 145

Ion Ratio Lower Upper

64 100

66 0.0 24.6 37.0#



Abundance Ion 63.90 (63.60 to 64.60): VN0

Ion 65.90 (65.60 to 66.60): VN0

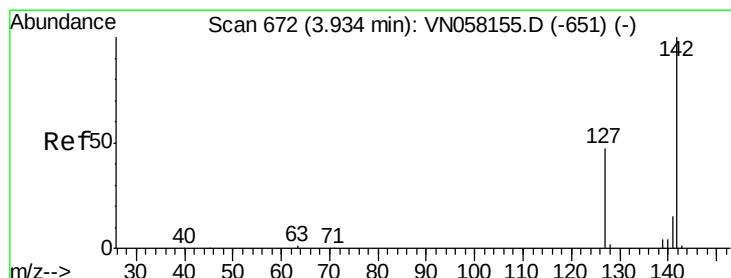
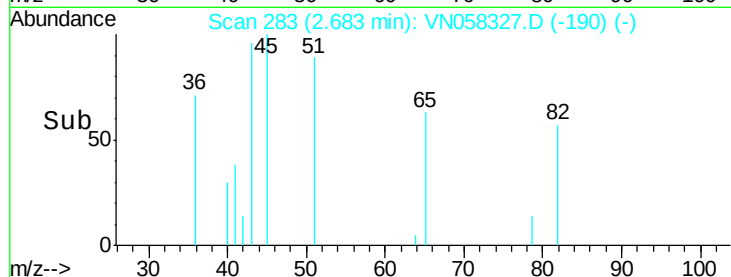
2.68

2.67

2.69

2.70

Time-->



#10

Methyl Iodide

Concen: 0.290 ug/l

RT: 3.94 min Scan# 673

Delta R.T. 0.00 min

Lab File: VN058327.D

Acq: 24 Sep 2019 5:12

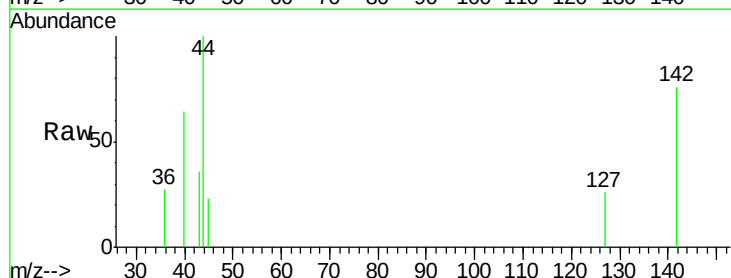
Tgt Ion: 142 Resp: 949

Ion Ratio Lower Upper

142 100

127 19.1 37.5 56.3#

141 0.0 11.4 17.2#



Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

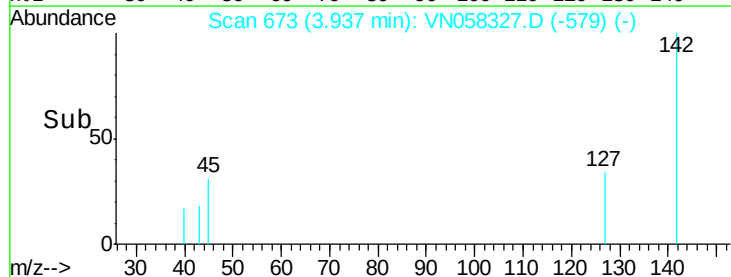
Ion 140.80 (140.50 to 141.50): V

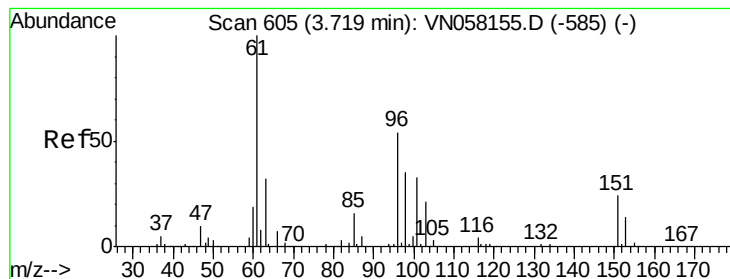
3.94

3.90

3.95

Time-->





#12

1,1-Dichloroethene

Concen: Below Cal

RT: 3.71 min Scan# 601

Delta R.T. -0.01 min

Lab File: VN058327.D

Acq: 24 Sep 2019 5:12

Instrument :

MSVOA\_N

ClientSampled :

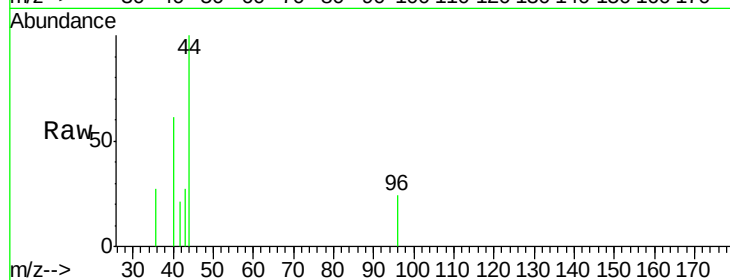
Tot Ion: 96 Resp: 93

Ion Ratio Lower Upper

96 100

61 0.0 149.5 224.3#

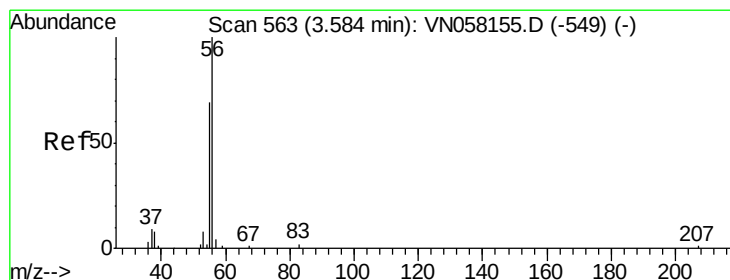
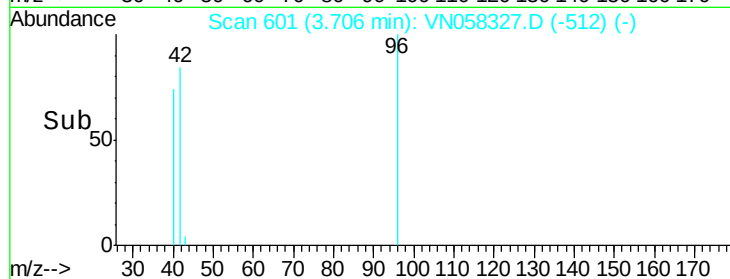
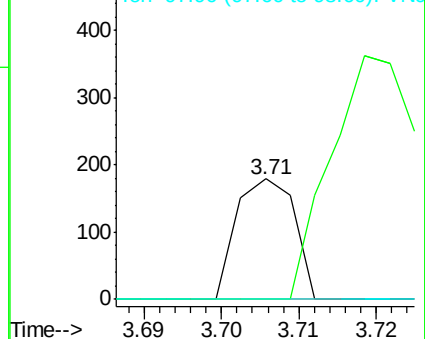
98 0.0 52.4 78.6#



Abundance Ion 95.90 (95.60 to 96.60): VN0

Ion 60.90 (60.60 to 61.60): VN0

Ion 97.90 (97.60 to 98.60): VN0



#13

Acrolein

Concen: 1.738 ug/l

RT: 3.58 min Scan# 561

Delta R.T. -0.01 min

Lab File: VN058327.D

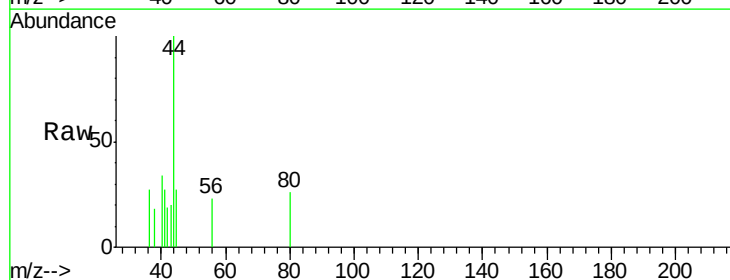
Acq: 24 Sep 2019 5:12

Tgt Ion: 56 Resp: 206

Ion Ratio Lower Upper

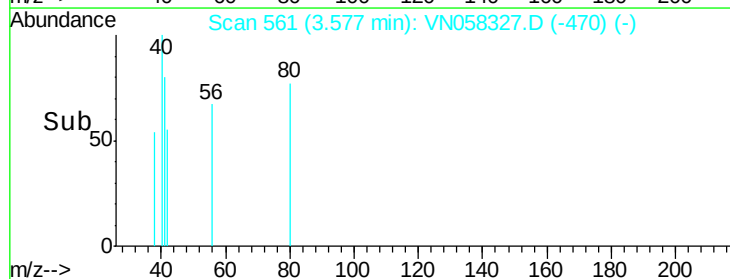
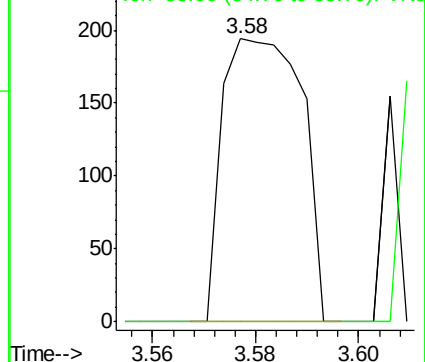
56 100

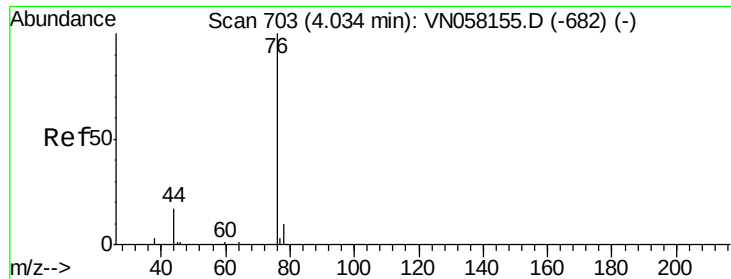
55 0.0 56.1 84.1#



Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 55.00 (54.70 to 55.70): VN0





#17

Carbon Disulfide

Concen: 0.777 ug/l

RT: 4.04 min Scan# 705

Delta R.T. 0.01 min

Lab File: VN058327.D

Acq: 24 Sep 2019 5:12

Instrument :

MSVOA\_N

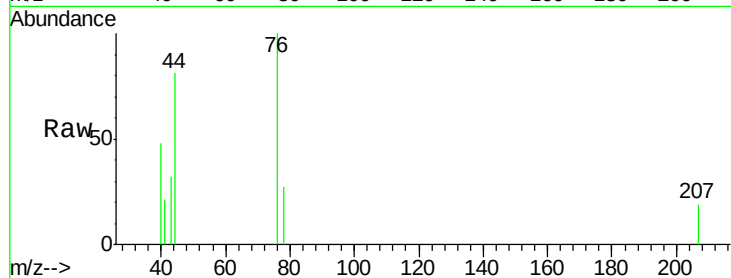
ClientSampled :

Tot Ion: 76 Resp: 2121

Ion Ratio Lower Upper

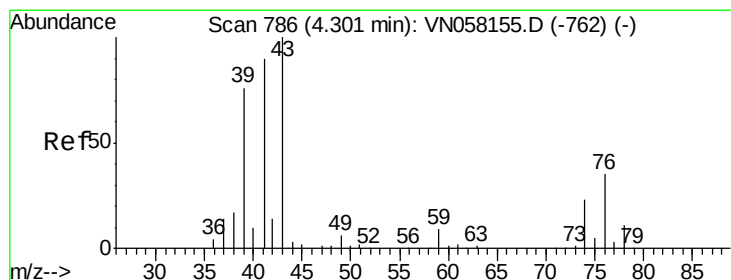
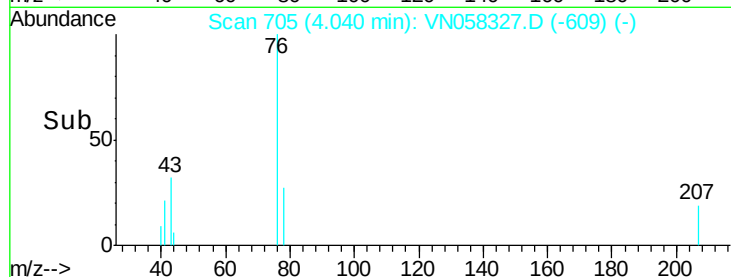
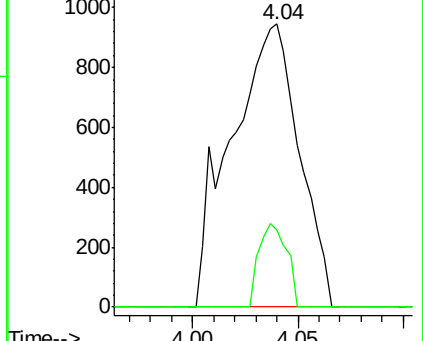
76 100

78 27.4 7.7 11.5#



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0



#18

Methyl Acetate

Concen: 0.388 ug/l

RT: 4.31 min Scan# 790

Delta R.T. 0.01 min

Lab File: VN058327.D

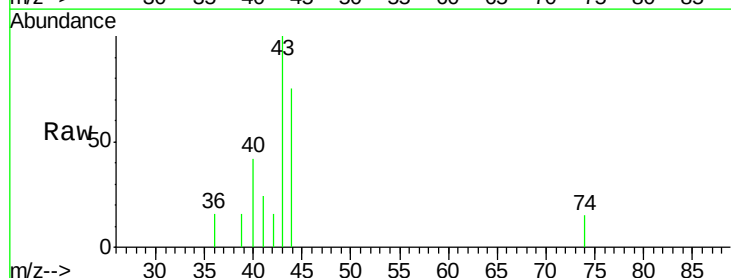
Acq: 24 Sep 2019 5:12

Tgt Ion: 43 Resp: 2328

Ion Ratio Lower Upper

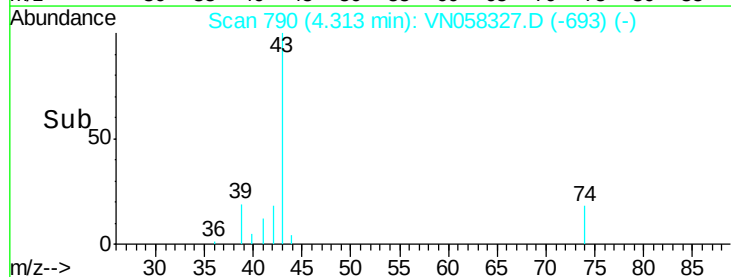
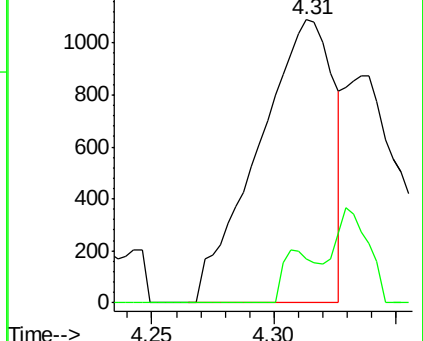
43 100

74 8.5 18.0 27.0#

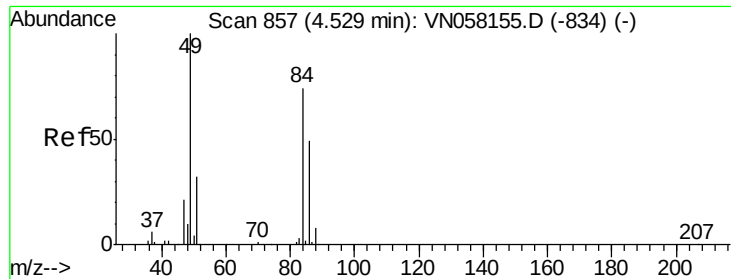


Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 74.00 (73.70 to 74.70): VN0







#20

Methylene Chloride

Concen: 0.212 ug/l

RT: 4.54 min Scan# 860

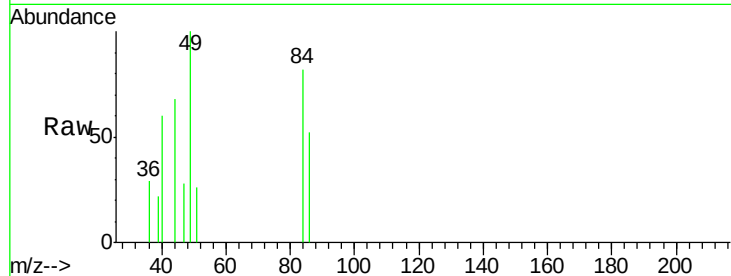
Delta R.T. 0.01 min

Lab File: VN058327.D

Acq: 24 Sep 2019 5:12

Instrument :  
MSVOA\_N  
ClientSampled :

|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 84    | Resp: | 1728  |
| Ion      | Ratio | Lower | Upper |
| 84       | 100   |       |       |
| 49       | 122.3 | 107.5 | 161.3 |
| 51       | 31.6  | 33.9  | 50.9# |
| 86       | 63.3  | 52.4  | 78.6  |

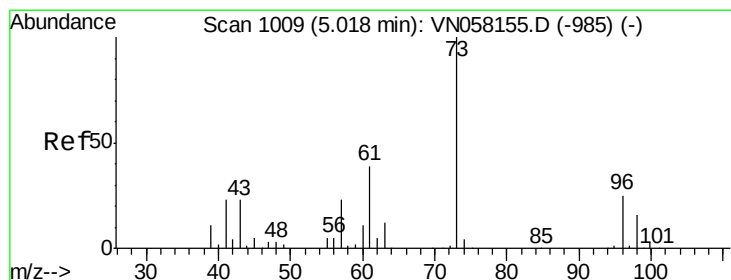
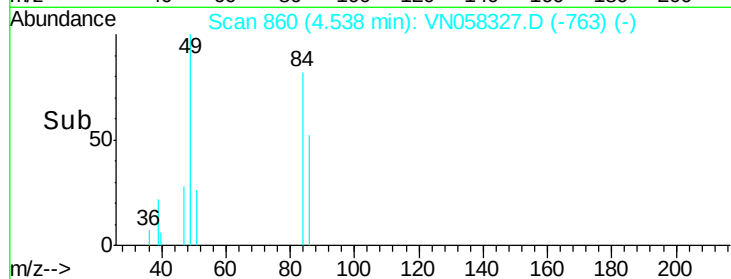
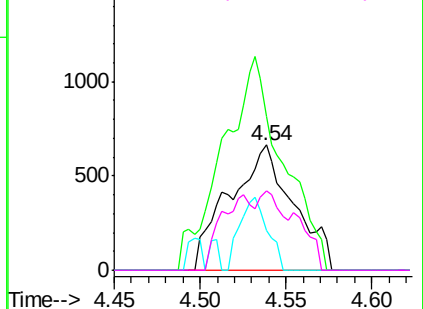


Abundance Ion 83.90 (83.60 to 84.60): VN0

Ion 48.90 (48.60 to 49.60): VN0

Ion 50.90 (50.60 to 51.60): VN0

Ion 85.90 (85.60 to 86.60): VN0



#21

trans-1,2-Dichloroethene

Concen: Below Cal

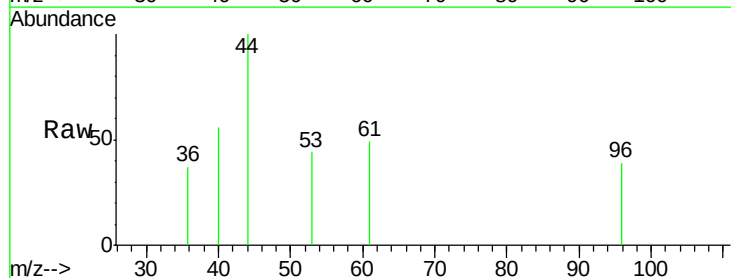
RT: 5.01 min Scan# 1007

Delta R.T. -0.01 min

Lab File: VN058327.D

Acq: 24 Sep 2019 5:12

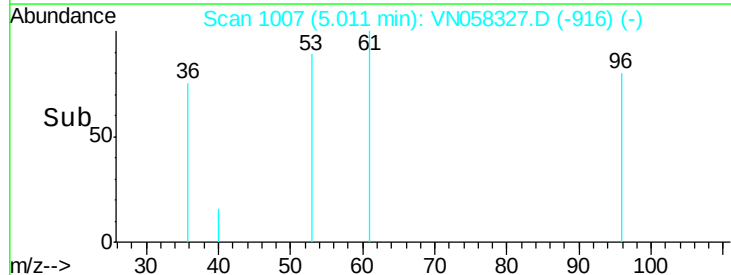
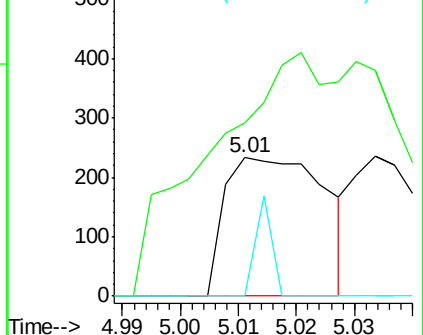
|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 96    | Resp: | 280    |
| Ion      | Ratio | Lower | Upper  |
| 96       | 100   |       |        |
| 61       | 40.8  | 122.2 | 183.4# |
| 98       | 0.0   | 49.9  | 74.9#  |

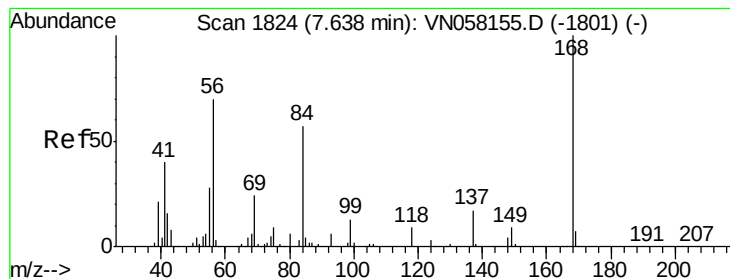


Abundance Ion 95.90 (95.60 to 96.60): VN0

Ion 60.90 (60.60 to 61.60): VN0

Ion 97.90 (97.60 to 98.60): VN0





#31

Cyclohexane

Concen: Below Cal

RT: 7.65 min Scan# 1827

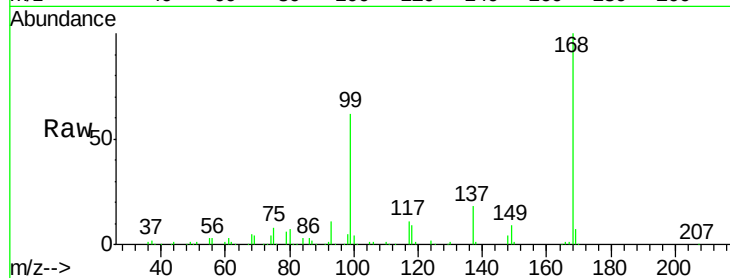
Delta R.T. 0.01 min

Lab File: VN058327.D

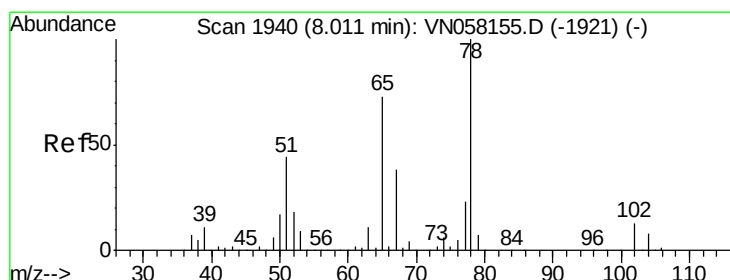
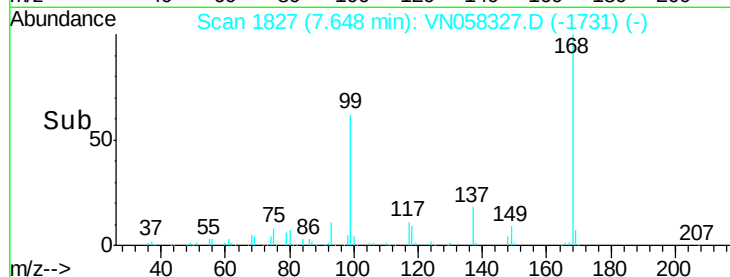
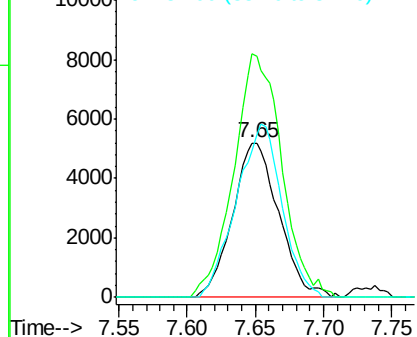
Acq: 24 Sep 2019 5:12

Instrument :  
MSVOA\_N  
ClientSampled :

|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 56    | Resp: | 12237 |
| Ion      | Ratio | Lower | Upper |
| 56       | 100   |       |       |
| 69       | 157.9 | 27.3  | 40.9# |
| 84       | 95.2  | 65.0  | 97.4  |



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: 53.063 ug/l

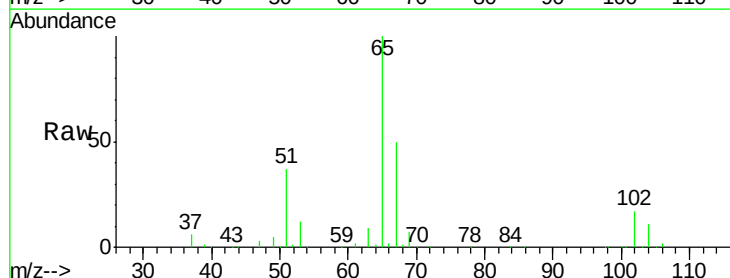
RT: 8.01 min Scan# 1941

Delta R.T. 0.00 min

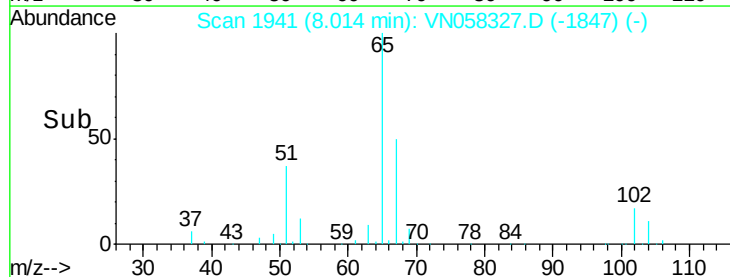
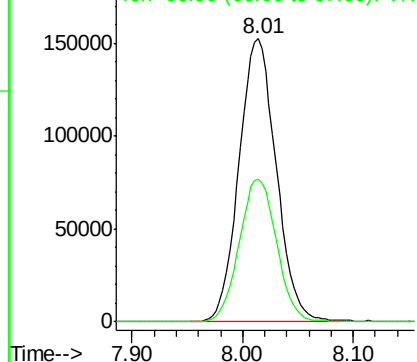
Lab File: VN058327.D

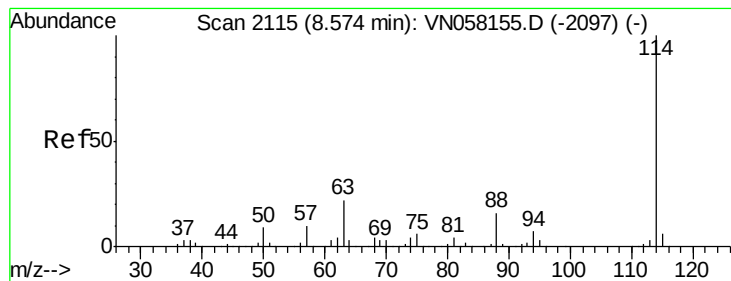
Acq: 24 Sep 2019 5:12

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 65    | Resp: | 356748 |
| Ion      | Ratio | Lower | Upper  |
| 65       | 100   |       |        |
| 67       | 50.7  | 0.0   | 103.4  |



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: 8.57 min Scan# 2115

Delta R.T. -0.00 min

Lab File: VN058327.D

Acq: 24 Sep 2019 5:12

Instrument :

MSVOA\_N

ClientSampled :

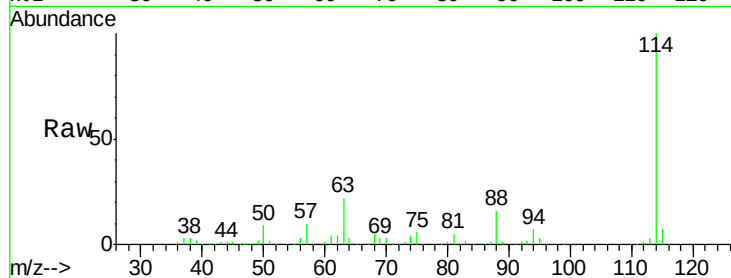
Tot Ion:114 Resp: 791572

Ion Ratio Lower Upper

114 100

63 22.4 0.0 44.2

88 15.8 0.0 31.6



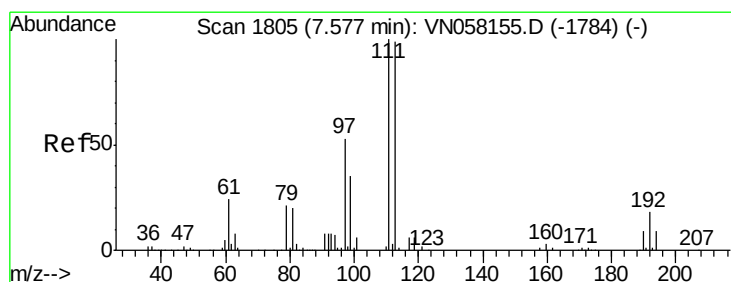
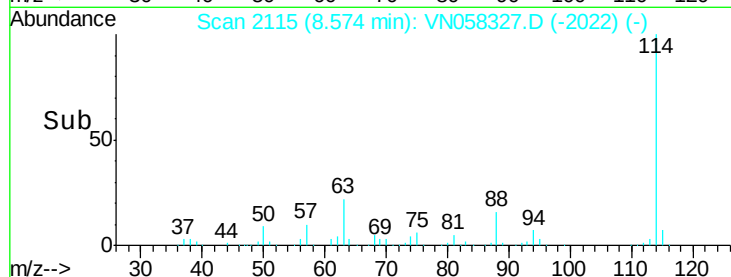
Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VN

Ion 87.90 (87.60 to 88.60): VN

8.57

Time-->



#35

Dibromofluoromethane

Concen: 51.567 ug/l

RT: 7.58 min Scan# 1805

Delta R.T. -0.00 min

Lab File: VN058327.D

Acq: 24 Sep 2019 5:12

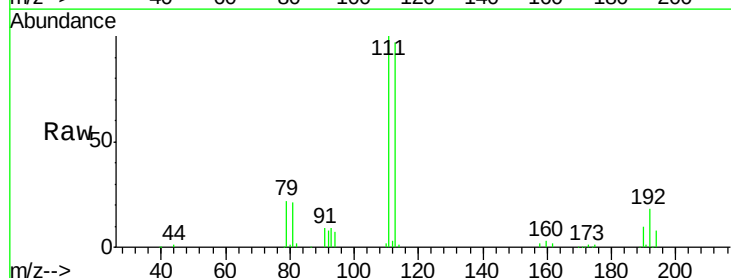
Tgt Ion:113 Resp: 248147

Ion Ratio Lower Upper

113 100

111 101.9 81.8 122.6

192 17.9 14.5 21.7



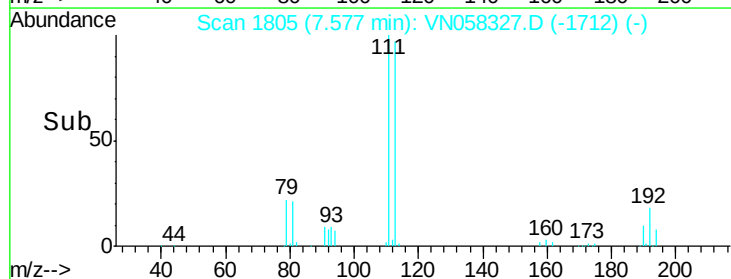
Abundance Ion 112.80 (112.50 to 113.50): V

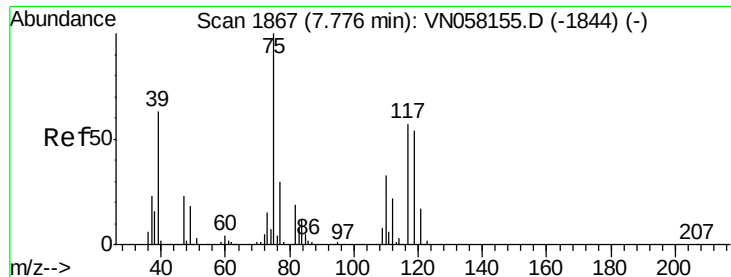
Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

7.58

Time-->

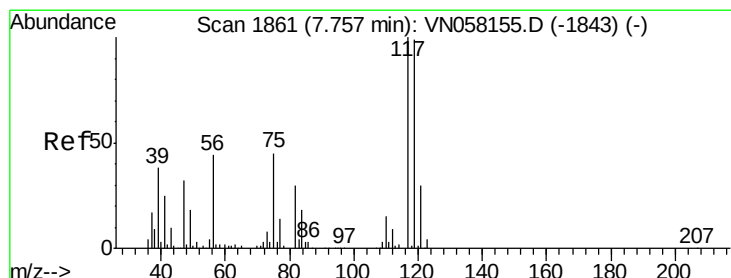
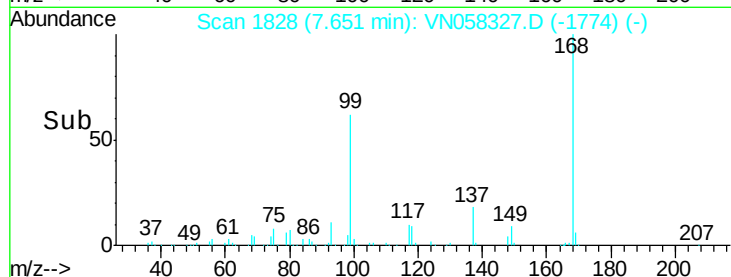
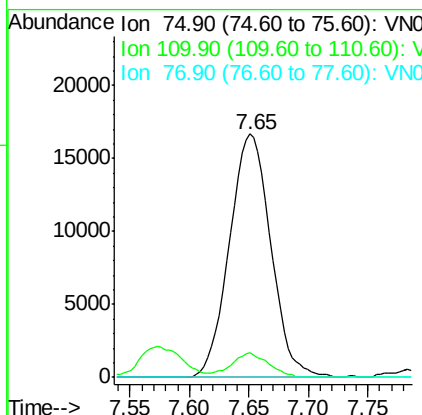
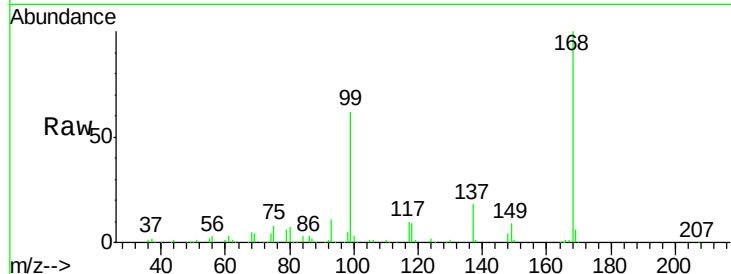




#36  
 1,1-Dichloropropene  
 Concen: 7.037 ug/l  
 RT: 7.65 min Scan# 1828  
 Delta R.T. -0.13 min  
 Lab File: VN058327.D  
 Acq: 24 Sep 2019 5:12

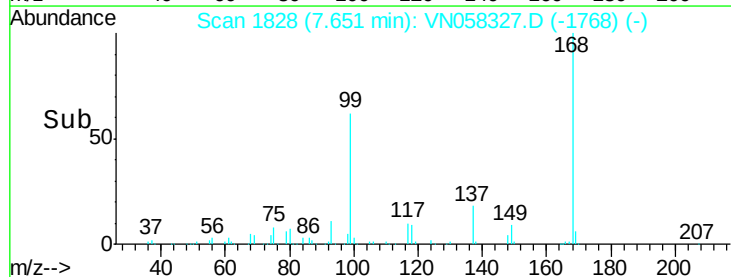
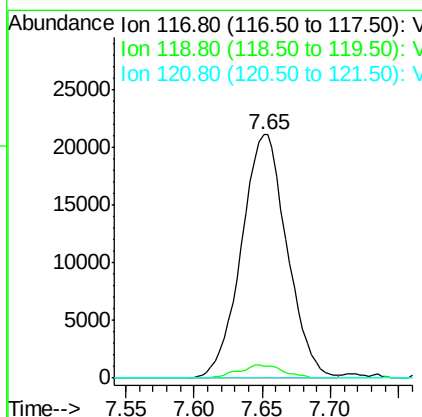
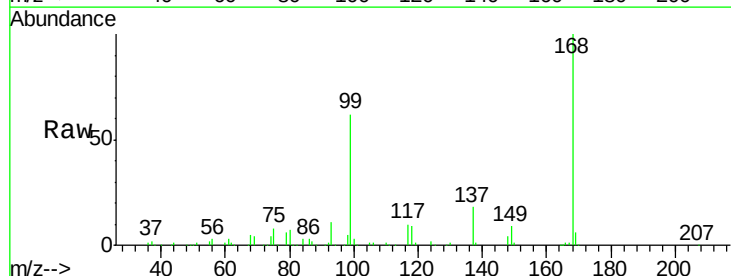
Instrument :  
 MSVOA\_N  
 ClientSampled :

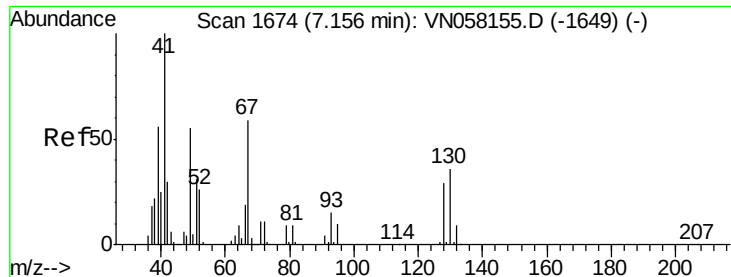
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 75      | 100   |       |       |
| 110     | 9.0   | 16.6  | 49.7# |
| 77      | 0.0   | 24.3  | 36.5# |



#38  
 Carbon Tetrachloride  
 Concen: 8.550 ug/l  
 RT: 7.65 min Scan# 1828  
 Delta R.T. -0.11 min  
 Lab File: VN058327.D  
 Acq: 24 Sep 2019 5:12

| Tgt Ion | Ratio | Lower | Upper  |
|---------|-------|-------|--------|
| 117     | 100   |       |        |
| 119     | 4.9   | 78.6  | 117.8# |
| 121     | 0.0   | 24.1  | 36.1#  |

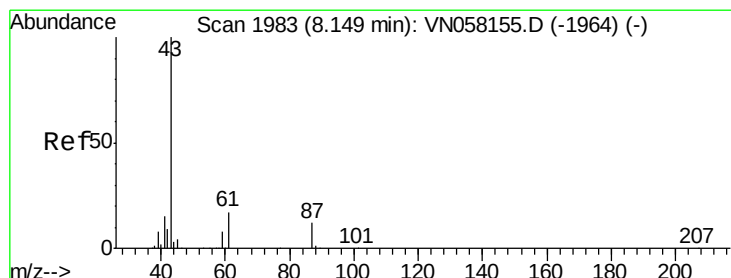
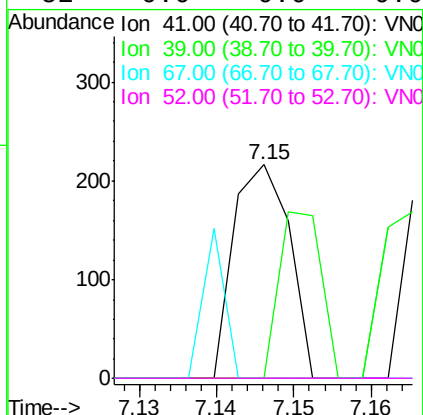
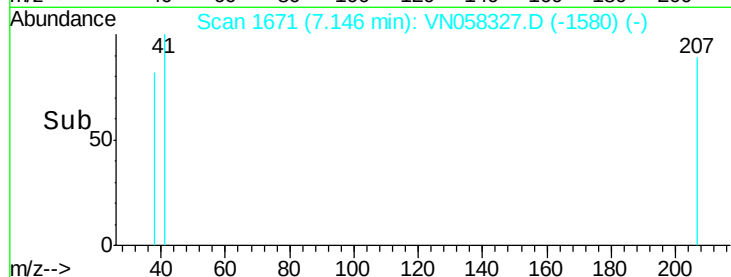
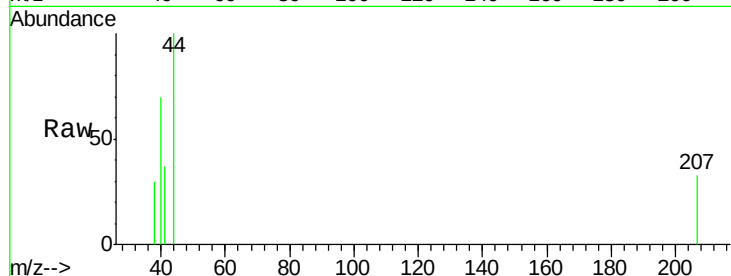




#41  
Methacrylonitrile  
Concen: 0.947 ug/l  
RT: 7.15 min Scan# 1671  
Delta R.T. -0.01 min  
Lab File: VN058327.D  
Acq: 24 Sep 2019 5:12

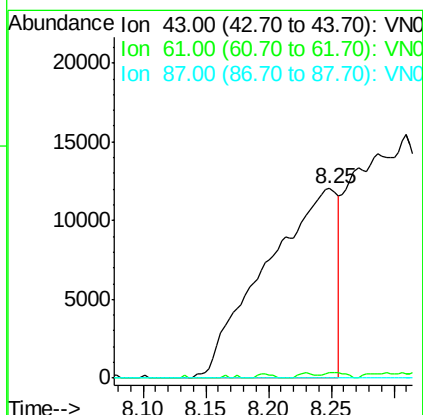
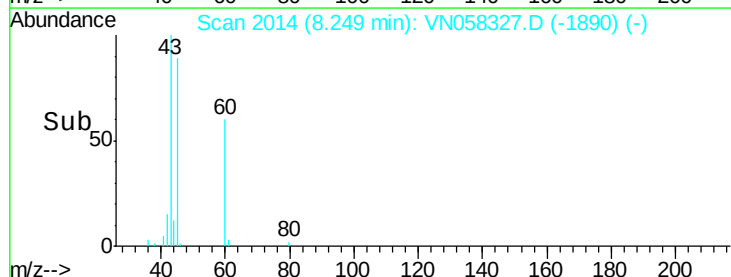
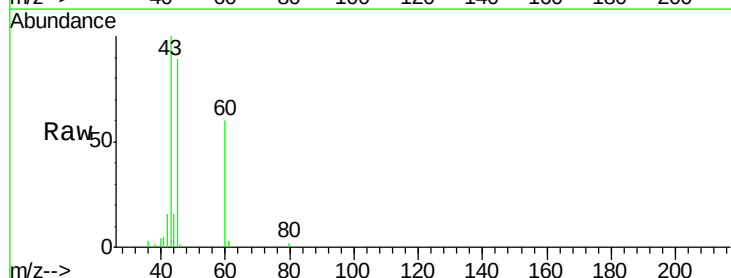
Instrument :  
MSVOA\_N  
ClientSampled :

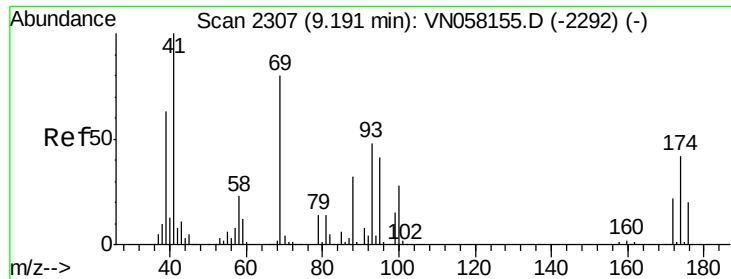
|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 41    | Resp: | 109   |
| Ion      | Ratio | Lower | Upper |
| 41       | 100   |       |       |
| 39       | 58.7  | 0.0   | 0.0#  |
| 67       | 26.6  | 0.0   | 0.0#  |
| 52       | 0.0   | 0.0   | 0.0   |



#43  
Isopropyl Acetate  
Concen: 4.293 ug/l  
RT: 8.25 min Scan# 2014  
Delta R.T. 0.10 min  
Lab File: VN058327.D  
Acq: 24 Sep 2019 5:12

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 43    | Resp: | 47502 |
| Ion      | Ratio | Lower | Upper |
| 43       | 100   |       |       |
| 61       | 0.9   | 19.7  | 29.5# |
| 87       | 0.0   | 9.4   | 14.2# |

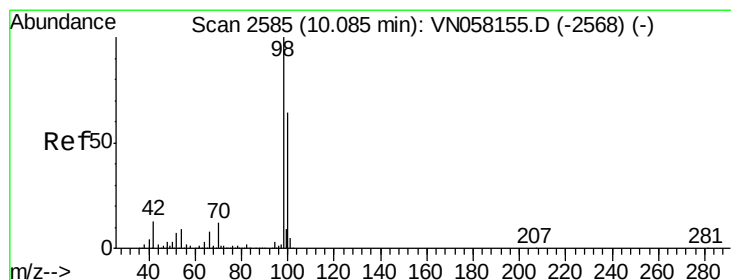
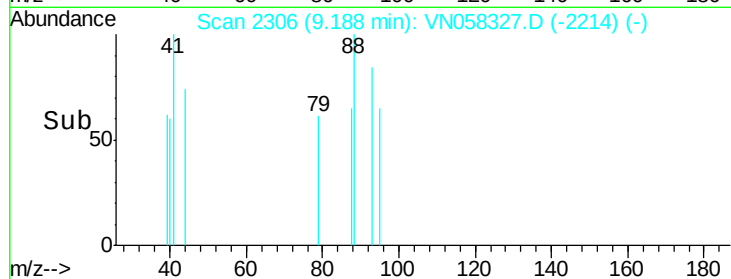
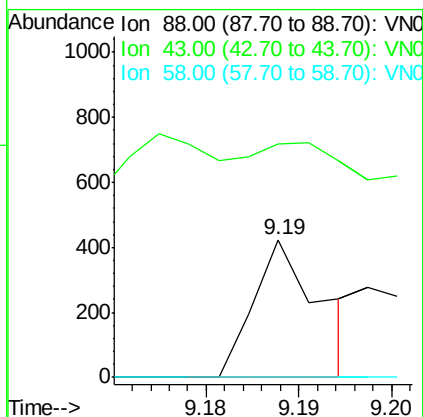
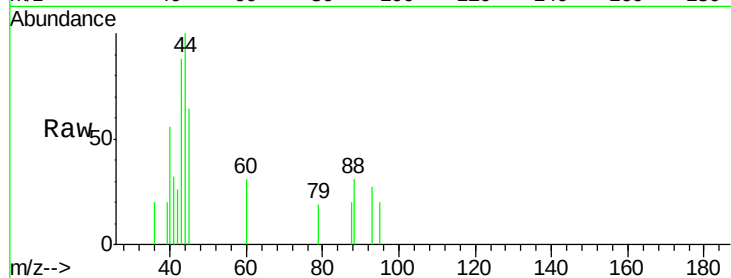




#49  
1,4-Dioxane  
Concen: 2.546 ug/l  
RT: 9.19 min Scan# 2306  
Delta R.T. -0.00 min  
Lab File: VN058327.D  
Acq: 24 Sep 2019 5:12

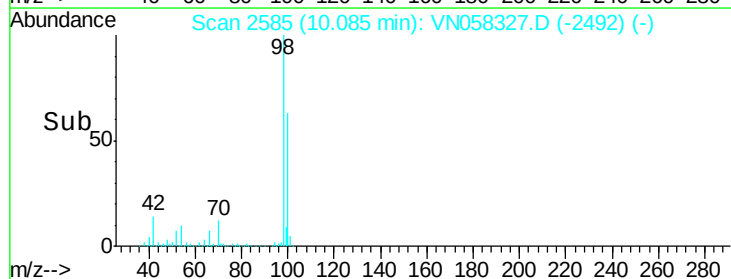
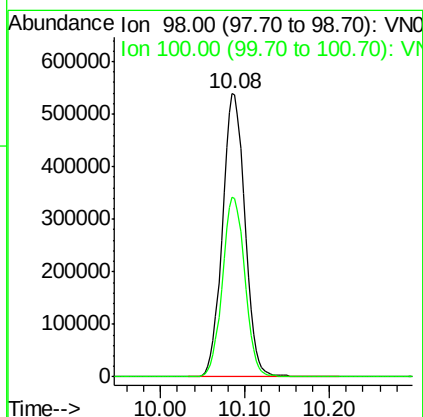
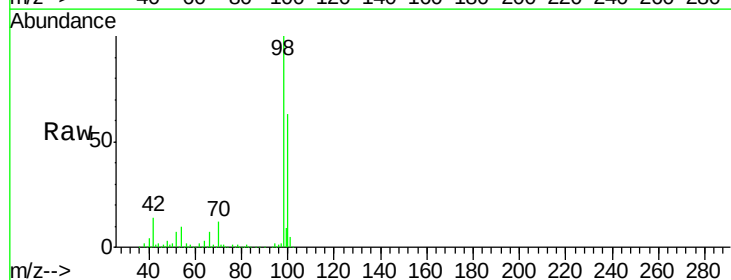
Instrument :  
MSVOA\_N  
ClientSampleId :

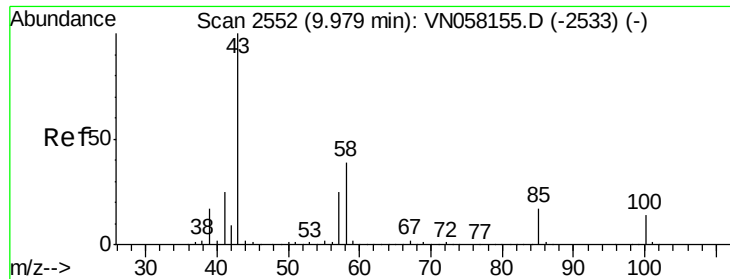
Tot Ion: 88 Resp: 210  
Ion Ratio Lower Upper  
88 100  
43 54.3 27.8 41.8#  
58 0.0 55.0 82.4#



#50  
Toluene-d8  
Concen: 53.172 ug/l  
RT: 10.08 min Scan# 2585  
Delta R.T. -0.00 min  
Lab File: VN058327.D  
Acq: 24 Sep 2019 5:12

Tgt Ion: 98 Resp: 996926  
Ion Ratio Lower Upper  
98 100  
100 63.6 51.1 76.7





#51

4-Methyl-2-Pentanone

Concen: 0.661 ug/l

RT: 9.98 min Scan# 2552

Delta R.T. -0.00 min

Lab File: VN058327.D

Acq: 24 Sep 2019 5:12

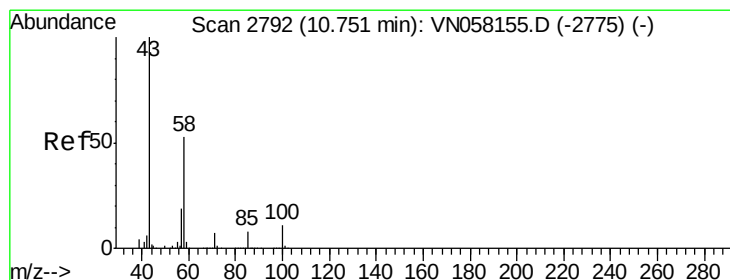
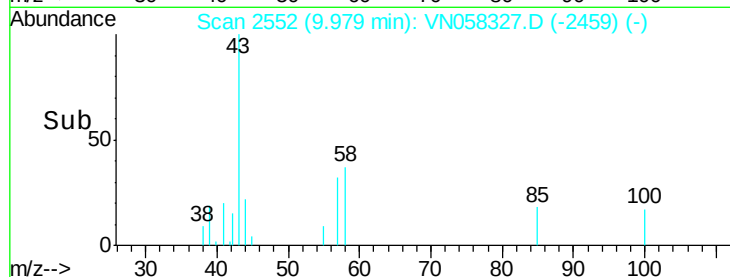
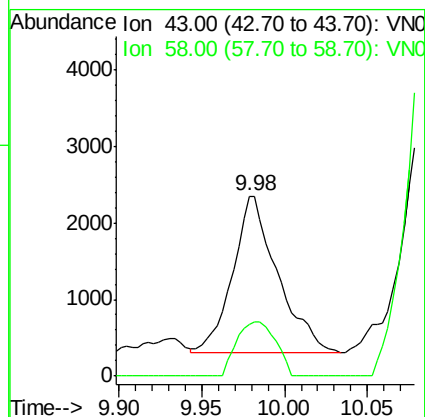
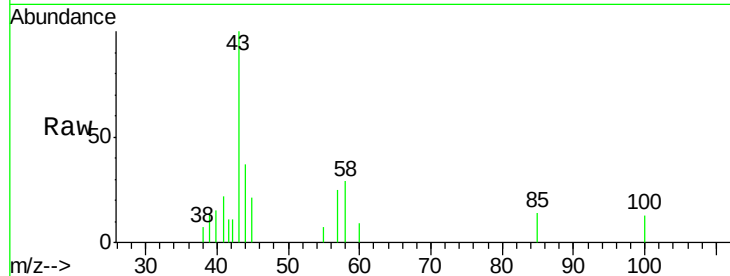
Instrument :  
MSVOA\_N  
ClientSampled :

Tot Ion: 43 Resp: 3887

Ion Ratio Lower Upper

43 100

58 29.8 30.2 45.4#



#59

2-Hexanone

Concen: 1.197 ug/l

RT: 10.75 min Scan# 2793

Delta R.T. 0.00 min

Lab File: VN058327.D

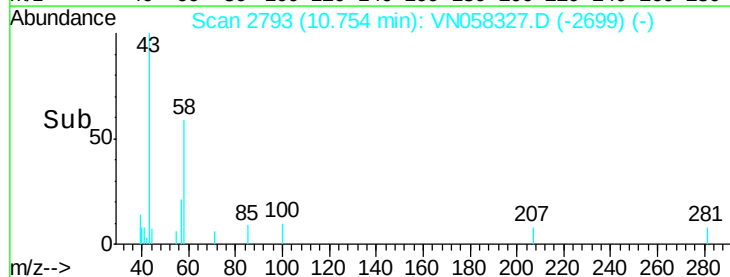
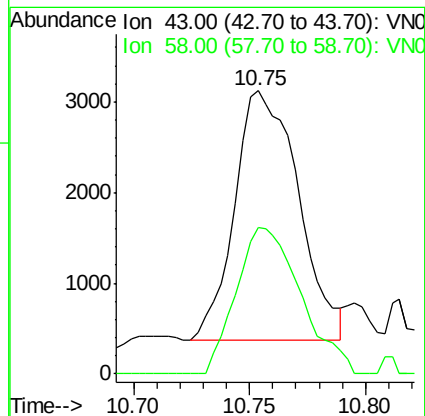
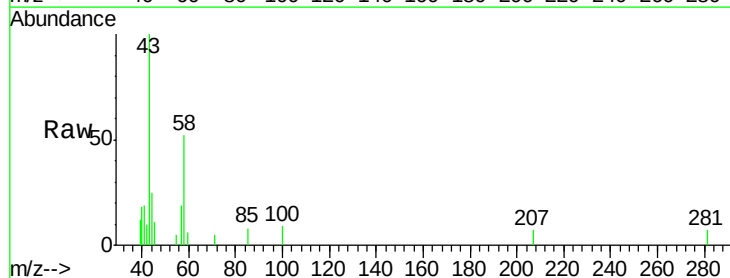
Acq: 24 Sep 2019 5:12

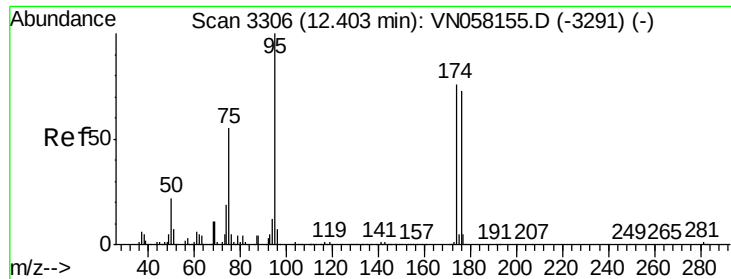
Tgt Ion: 43 Resp: 5226

Ion Ratio Lower Upper

43 100

58 59.8 26.0 78.0





#62

4-Bromofluorobenzene

Concen: 46.180 ug/l

RT: 12.41 min Scan# 3307

Delta R.T. 0.00 min

Lab File: VN058327.D

Acq: 24 Sep 2019 5:12

Instrument :

MSVOA\_N

ClientSampled :

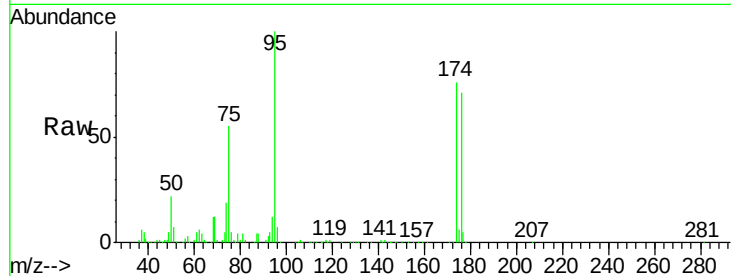
Tot Ion: 95 Resp: 321625

Ion Ratio Lower Upper

95 100

174 75.8 0.0 152.2

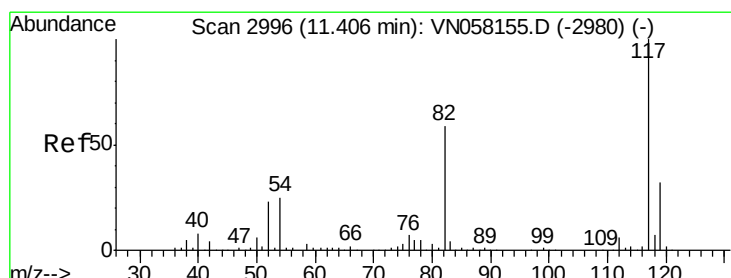
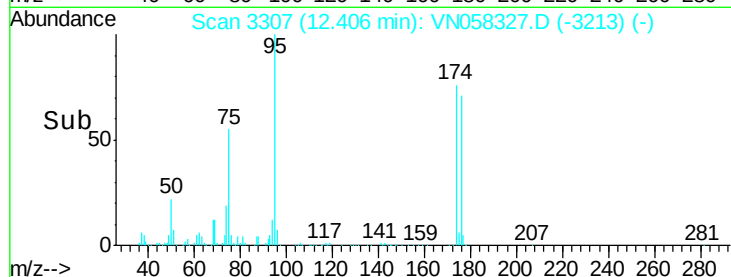
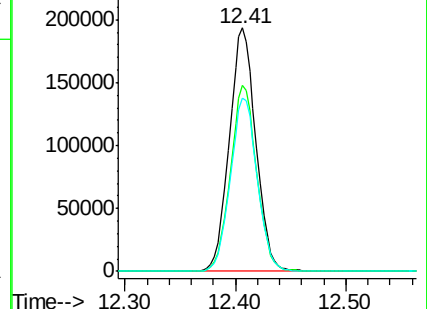
176 72.0 0.0 148.0



Abundance Ion 94.90 (94.60 to 95.60): VN058155.D (-3291) (-)

Ion 173.80 (173.50 to 174.50): VN058155.D (-3291) (-)

Ion 175.80 (175.50 to 176.50): VN058155.D (-3291) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2997

Delta R.T. 0.00 min

Lab File: VN058327.D

Acq: 24 Sep 2019 5:12

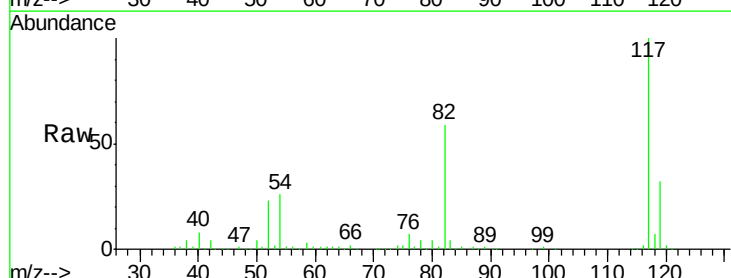
Tgt Ion: 117 Resp: 673448

Ion Ratio Lower Upper

117 100

82 59.1 46.9 70.3

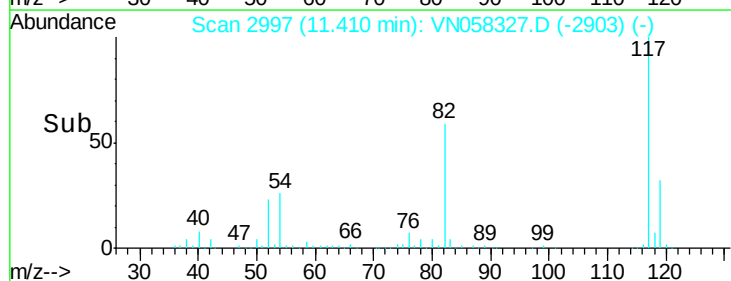
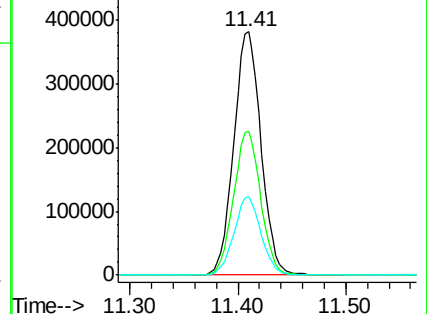
119 32.1 25.3 37.9



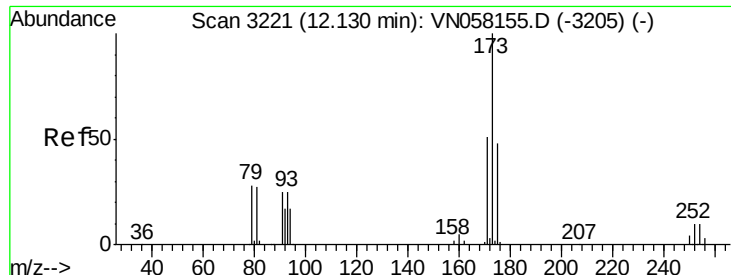
Abundance Ion 116.90 (116.60 to 117.60): VN058155.D (-2980) (-)

Ion 82.00 (81.70 to 82.70): VN058155.D (-2980) (-)

Ion 118.90 (118.60 to 119.60): VN058155.D (-2980) (-)







#71

Bromoform

Concen: 3.680 ug/l

RT: 12.13 min Scan# 3221

Delta R.T. 0.00 min

Lab File: VN058327.D

Acq: 24 Sep 2019 5:12

Instrument :

MSVOA\_N

ClientSampleId :

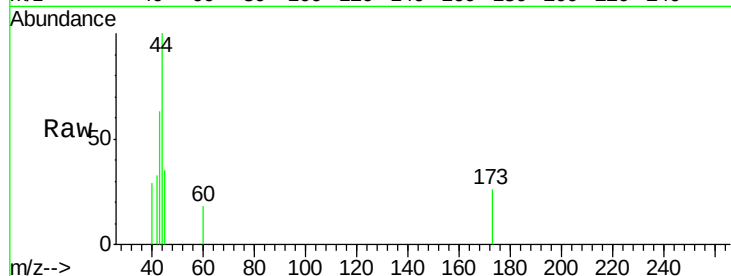
Tot Ion:173 Resp: 290

Ion Ratio Lower Upper

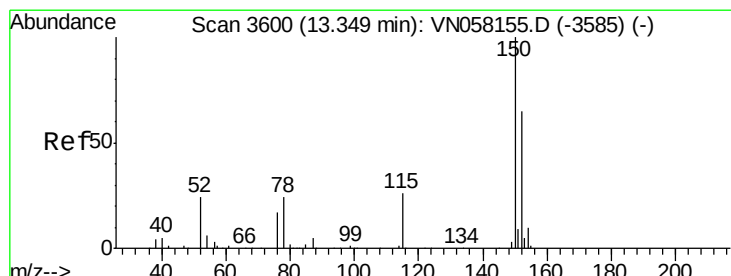
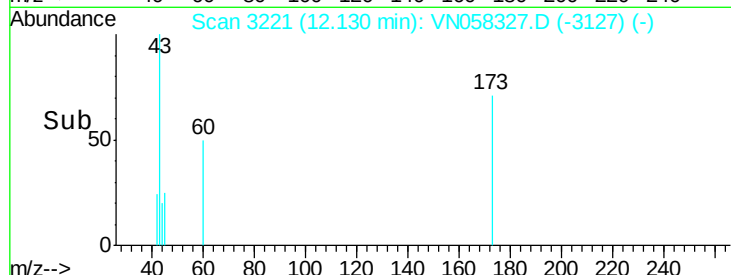
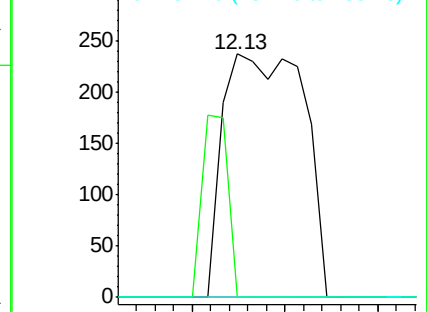
173 100

175 0.0 24.2 72.6#

254 0.0 0.1 0.1#



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: 13.35 min Scan# 3601

Delta R.T. 0.00 min

Lab File: VN058327.D

Acq: 24 Sep 2019 5:12

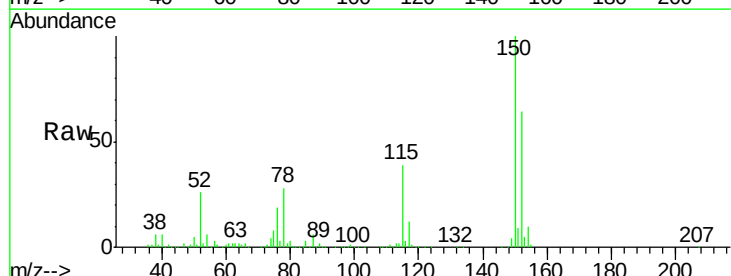
Tgt Ion:152 Resp: 282534

Ion Ratio Lower Upper

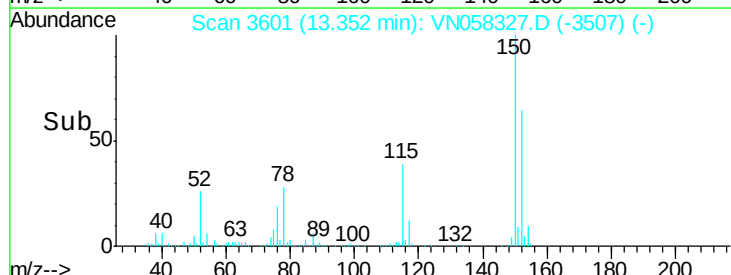
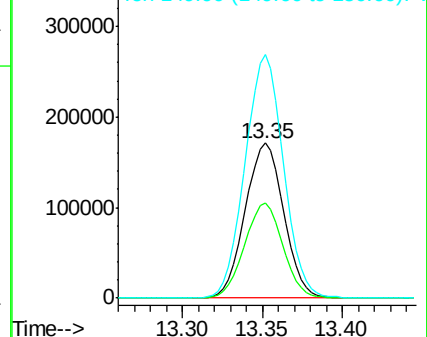
152 100

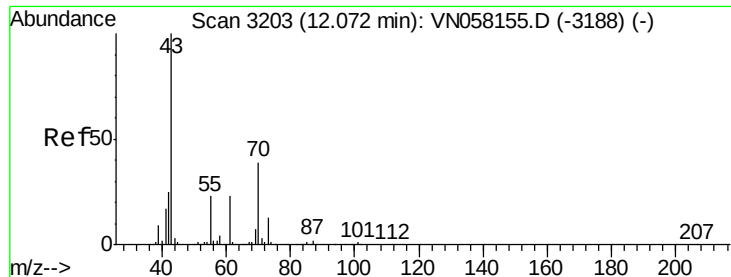
115 60.9 30.1 90.3

150 156.0 0.0 346.4



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





#74

N-amyl acetate

Concen: 0.498 ug/l

RT: 12.08 min Scan# 3206

Delta R.T. 0.01 min

Lab File: VN058327.D

Acq: 24 Sep 2019 5:12

Instrument :

MSVOA\_N

ClientSampleId :

Tot Ion: 43 Resp: 3682

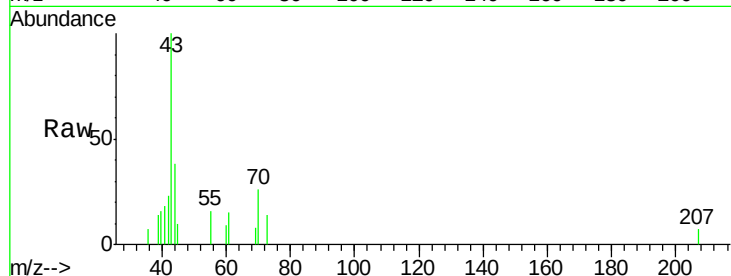
Ion Ratio Lower Upper

43 100

70 24.9 31.0 46.6#

55 0.0 18.5 27.7#

61 16.1 18.2 27.2#

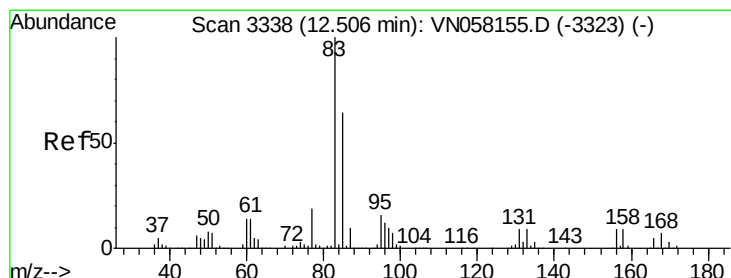
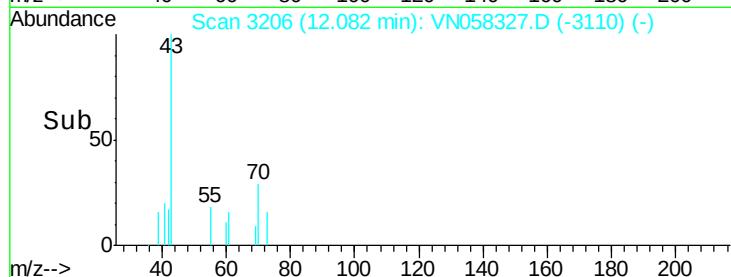
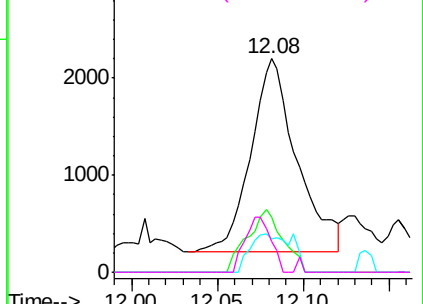


Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 70.00 (69.70 to 70.70): VN0

Ion 55.00 (54.70 to 55.70): VN0

Ion 61.00 (60.70 to 61.70): VN0



#75

1,1,2,2-Tetrachloroethane

Concen: 0.276 ug/l

RT: 12.51 min Scan# 3339

Delta R.T. 0.00 min

Lab File: VN058327.D

Acq: 24 Sep 2019 5:12

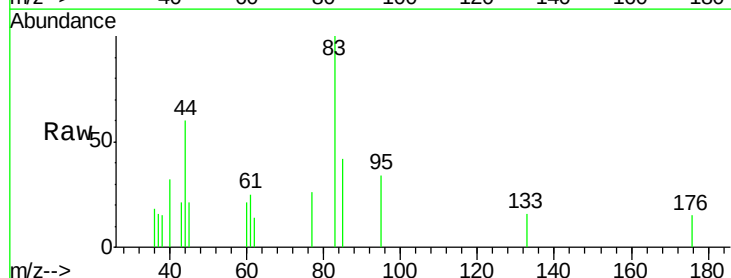
Tgt Ion: 83 Resp: 1635

Ion Ratio Lower Upper

83 100

131 0.0 4.8 14.3#

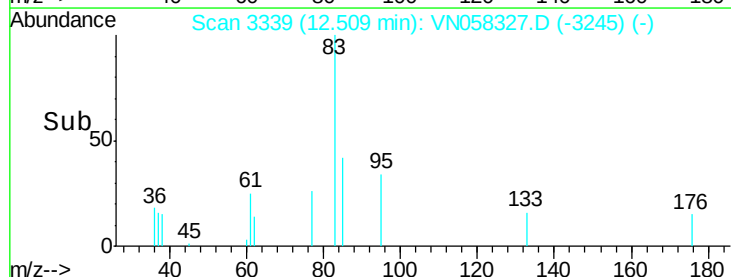
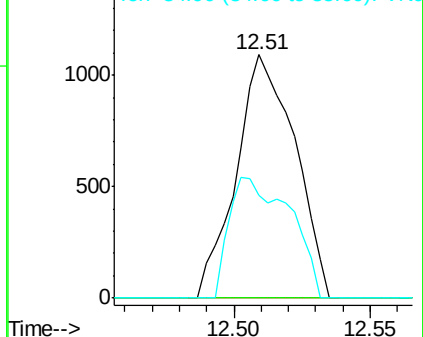
85 51.7 31.9 95.5

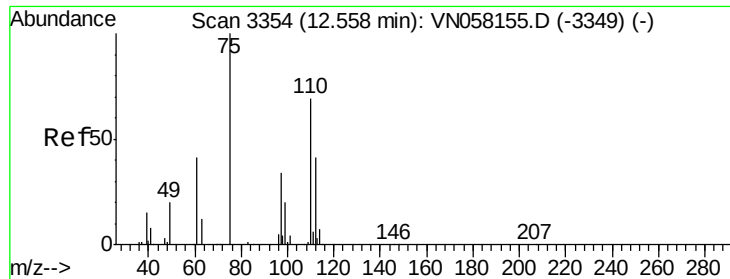


Abundance Ion 82.90 (82.60 to 83.60): VN0

Ion 130.80 (130.50 to 131.50): VN0

Ion 84.90 (84.60 to 85.60): VN0



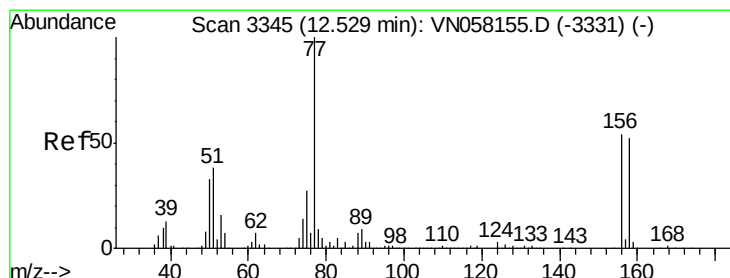
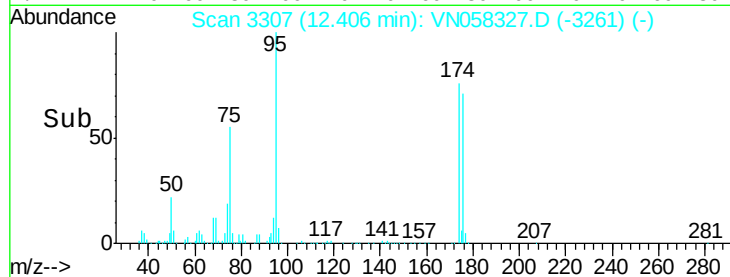
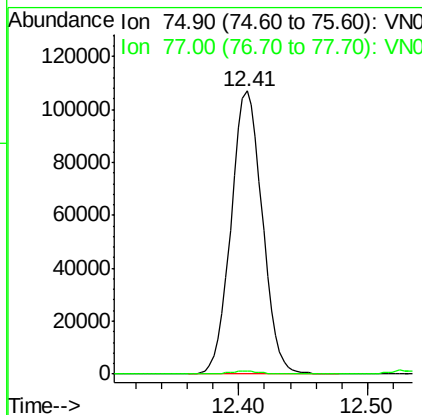
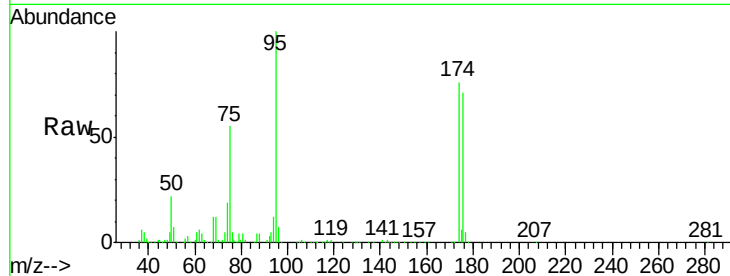


#76

1,2,3-Trichloropropane  
Concen: 35.638 ug/l  
RT: 12.41 min Scan# 3307  
Delta R.T. -0.15 min  
Lab File: VN058327.D  
Acq: 24 Sep 2019 5:12

Instrument :  
MSVOA\_N  
ClientSampled :

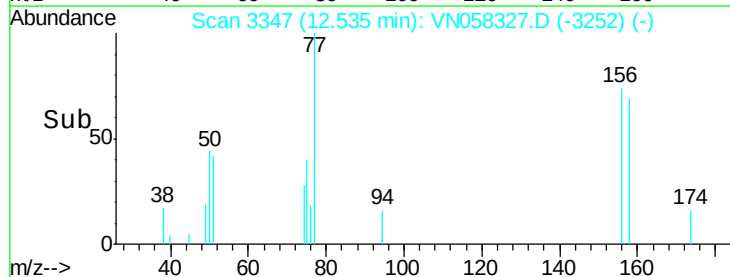
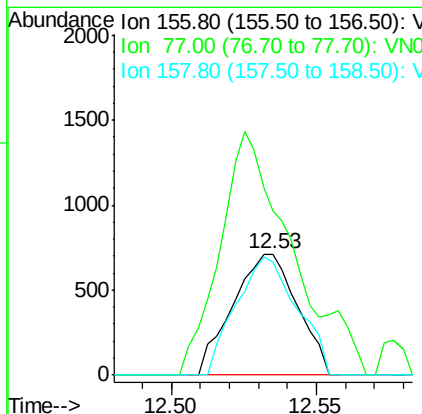
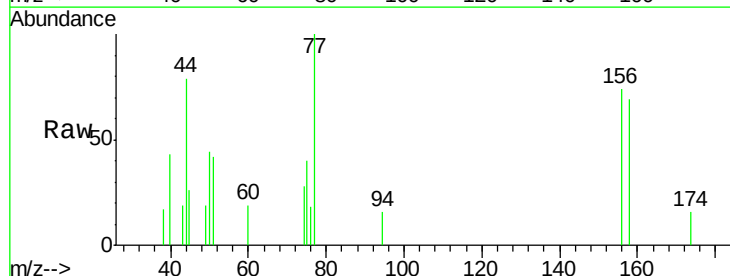
Tot Ion: 75 Resp: 180204  
Ion Ratio Lower Upper  
75 100  
77 1.0 0.0 0.0#

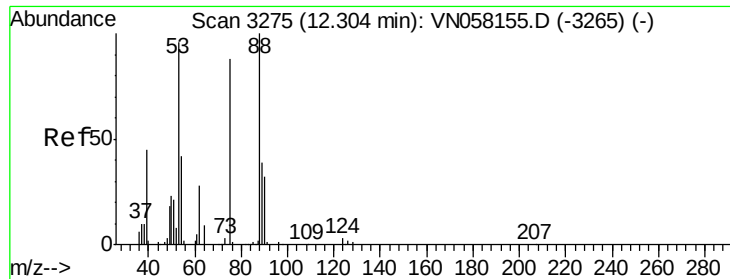


#77

Bromobenzene  
Concen: 0.247 ug/l  
RT: 12.53 min Scan# 3347  
Delta R.T. 0.01 min  
Lab File: VN058327.D  
Acq: 24 Sep 2019 5:12

Tgt Ion: 156 Resp: 1100  
Ion Ratio Lower Upper  
156 100  
77 223.2 111.7 335.1  
158 92.4 47.9 143.8





#81

trans-1,4-Dichloro-2-butene

Concen: 99.587 ug/l

RT: 12.41 min Scan# 3307

Delta R.T. 0.10 min

Lab File: VN058327.D

Acq: 24 Sep 2019 5:12

Instrument :

MSVOA\_N

ClientSampled :

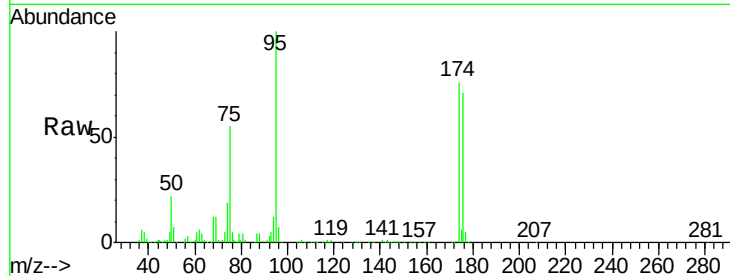
Tot Ion: 75 Resp: 180204

Ion Ratio Lower Upper

75 100

53 0.0 90.1 135.1#

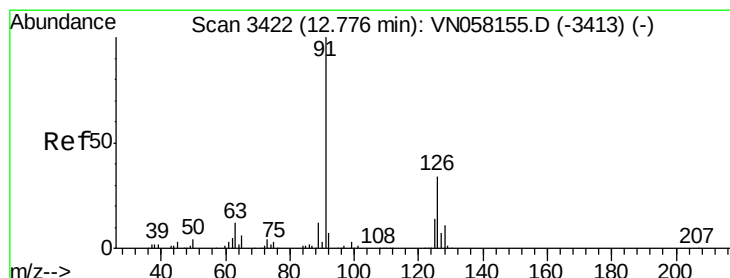
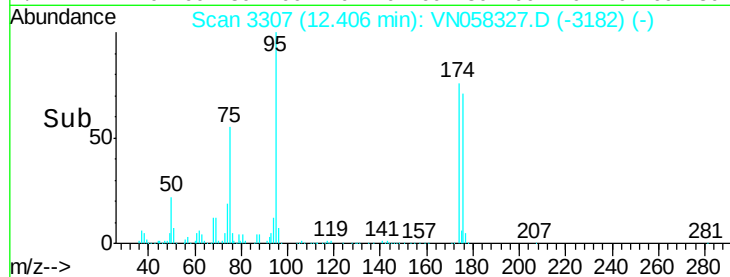
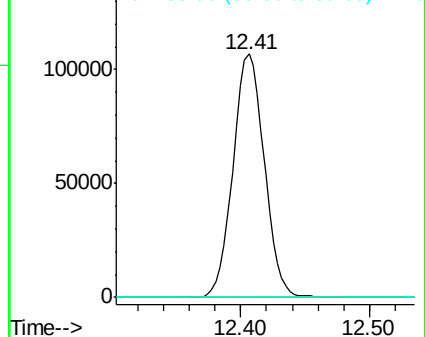
89 0.0 36.2 54.2#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 53.00 (52.70 to 53.70): VN0

Ion 88.90 (88.60 to 89.60): VN0



#82

4-Chlorotoluene

Concen: 0.294 ug/l

RT: 12.78 min Scan# 3424

Delta R.T. 0.01 min

Lab File: VN058327.D

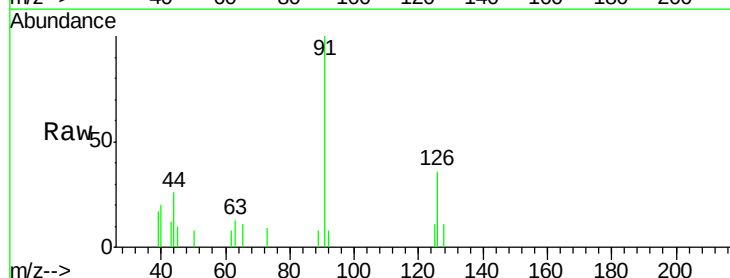
Acq: 24 Sep 2019 5:12

Tgt Ion: 91 Resp: 3884

Ion Ratio Lower Upper

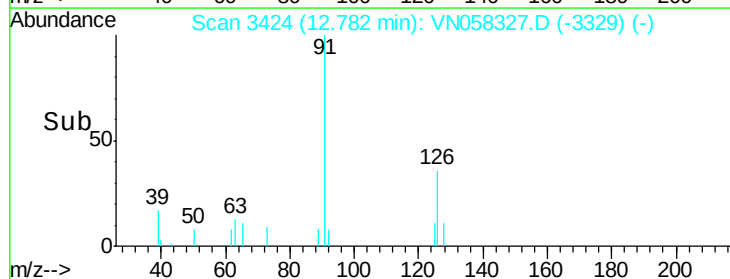
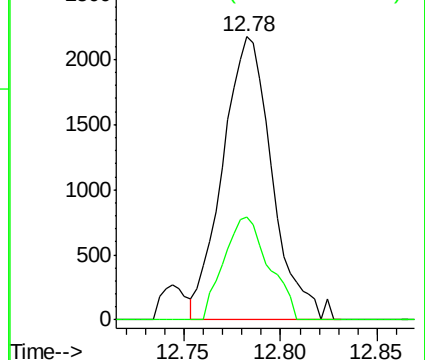
91 100

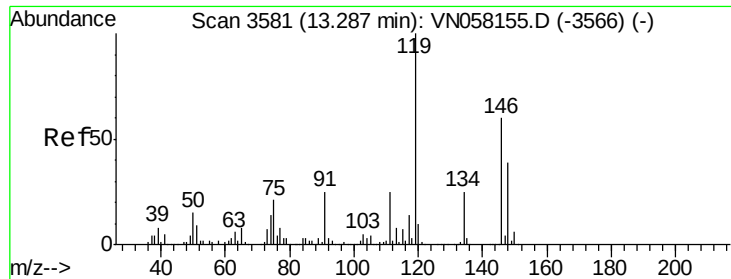
126 32.9 15.7 47.1



Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 125.90 (125.60 to 126.60): V





#87

1,3-Dichlorobenzene

Concen: 0.413 ug/l

RT: 13.29 min Scan# 3581

Delta R.T. -0.00 min

Lab File: VN058327.D

Acq: 24 Sep 2019 5:12

Instrument :

MSVOA\_N

ClientSampled :

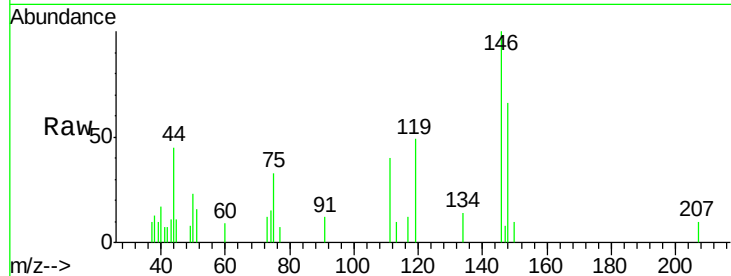
Tot Ion:146 Resp: 3354

Ion Ratio Lower Upper

146 100

111 46.5 20.9 62.8

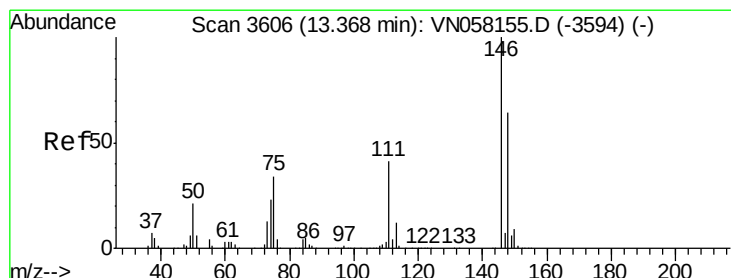
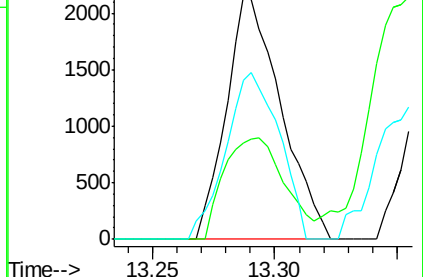
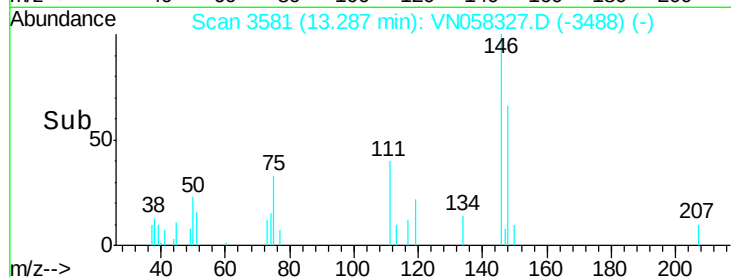
148 67.0 32.0 96.2



Abundance Ion 145.90 (145.60 to 146.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V



#88

1,4-Dichlorobenzene

Concen: 0.404 ug/l

RT: 13.29 min Scan# 3581

Delta R.T. -0.08 min

Lab File: VN058327.D

Acq: 24 Sep 2019 5:12

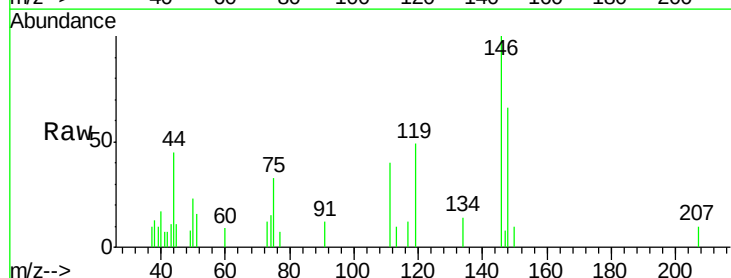
Tgt Ion:146 Resp: 3354

Ion Ratio Lower Upper

146 100

111 46.5 20.5 61.5

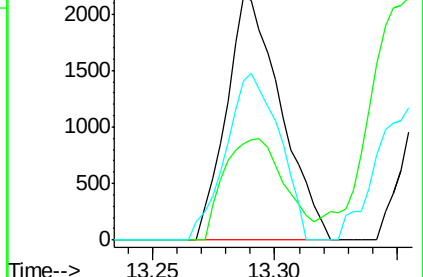
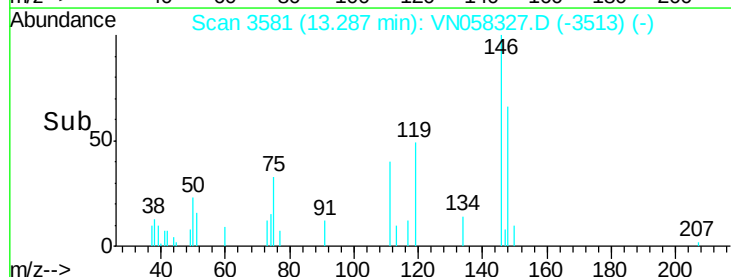
148 67.0 31.9 95.5

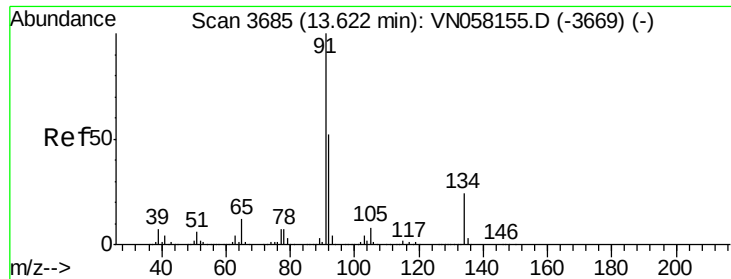


Abundance Ion 145.90 (145.60 to 146.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V

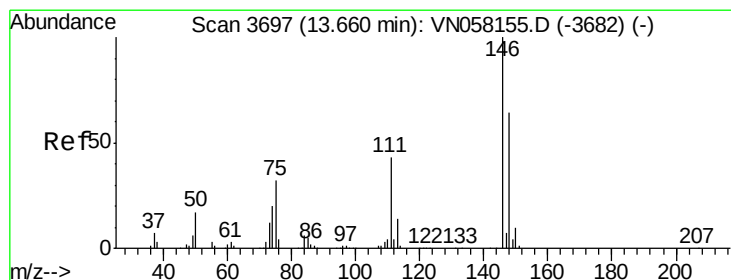
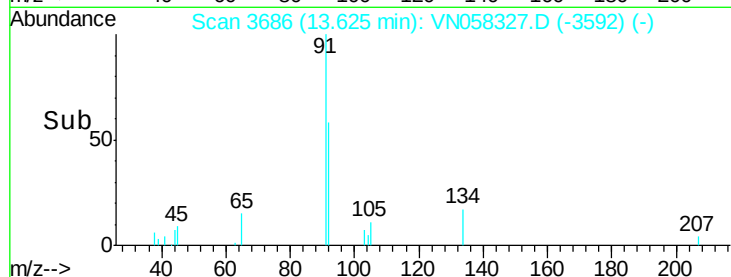
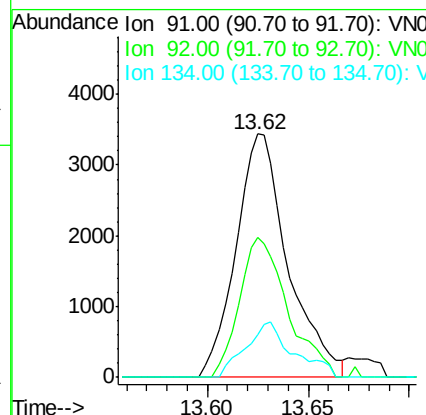
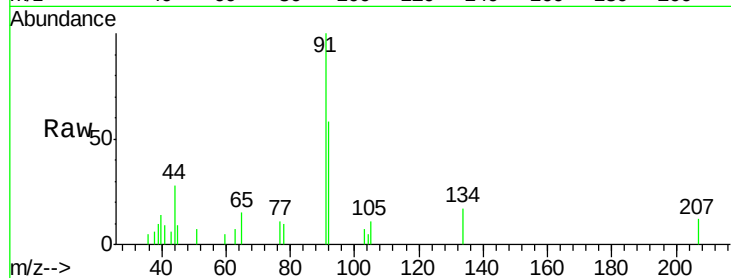




#89  
n-Butylbenzene  
Concen: 0.421 ug/l  
RT: 13.62 min Scan# 3686  
Delta R.T. 0.00 min  
Lab File: VN058327.D  
Acq: 24 Sep 2019 5:12

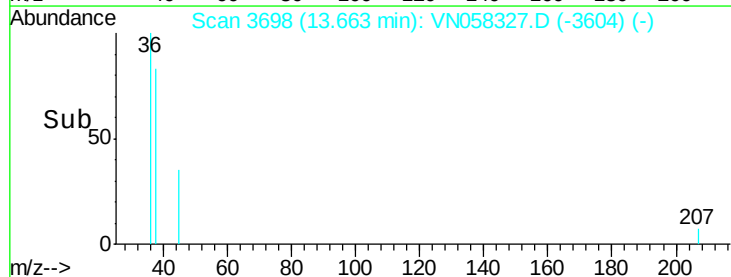
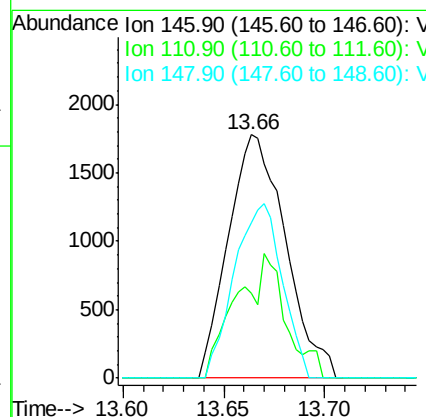
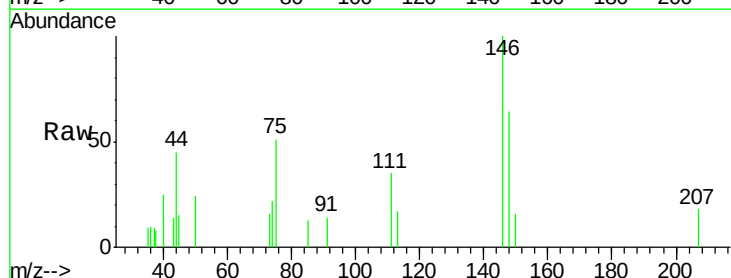
Instrument :  
MSVOA\_N  
ClientSampleId :

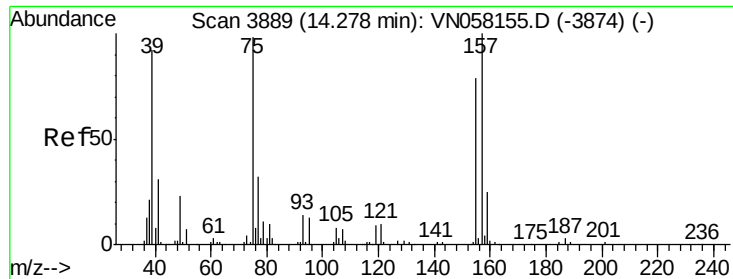
Tot Ion: 91 Resp: 6190  
Ion Ratio Lower Upper  
91 100  
92 53.2 25.7 77.0  
134 20.7 11.8 35.4



#91  
1,2-Dichlorobenzene  
Concen: 0.432 ug/l  
RT: 13.66 min Scan# 3698  
Delta R.T. 0.00 min  
Lab File: VN058327.D  
Acq: 24 Sep 2019 5:12

Tgt Ion: 146 Resp: 3524  
Ion Ratio Lower Upper  
146 100  
111 44.1 21.1 63.1  
148 60.1 31.8 95.4

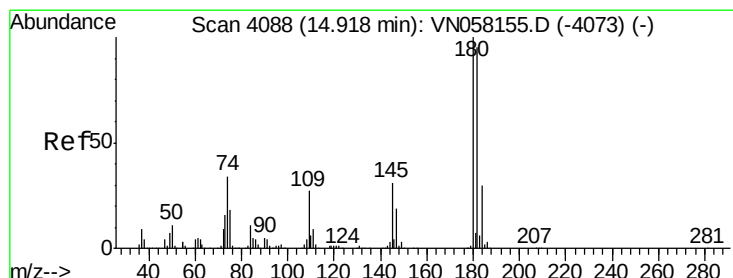
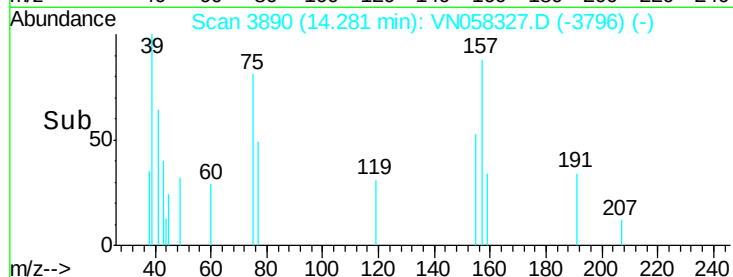
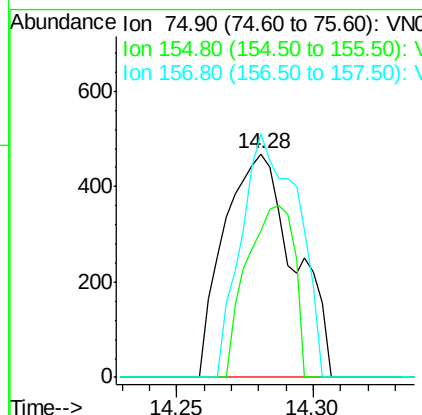
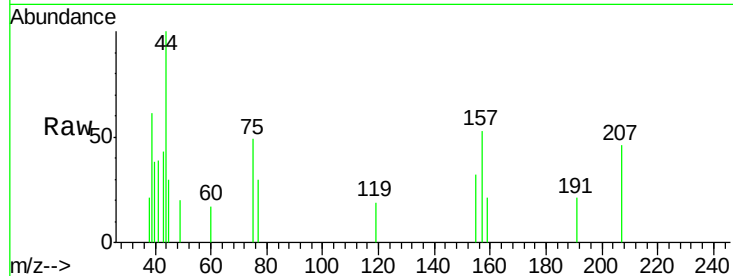




#92  
 1,2-Dibromo-3-Chloropropane  
 Concen: 0.784 ug/l  
 RT: 14.28 min Scan# 3890  
 Delta R.T. 0.00 min  
 Lab File: VN058327.D  
 Acq: 24 Sep 2019 5:12

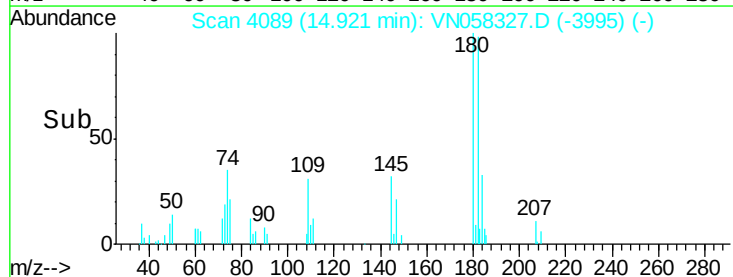
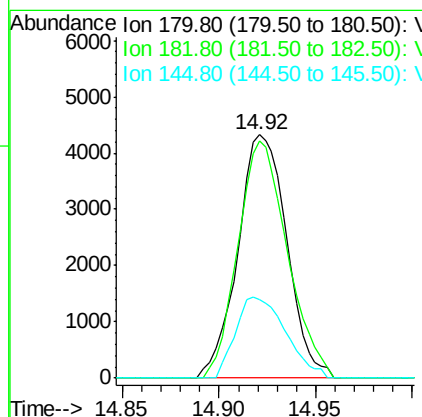
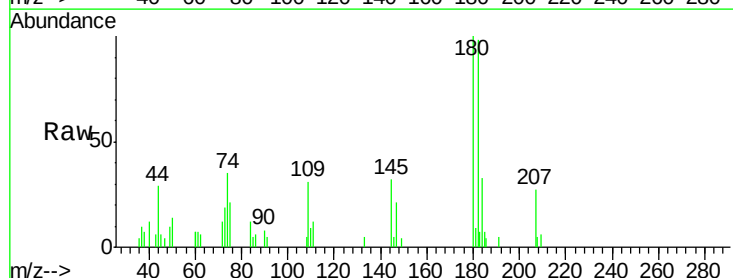
Instrument :  
 MSVOA\_N  
 ClientSampleId :

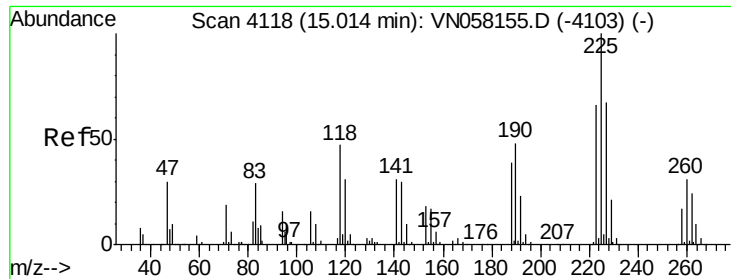
Tot Ion: 75 Resp: 836  
 Ion Ratio Lower Upper  
 75 100  
 155 52.0 38.3 114.8  
 157 88.3 48.0 144.0



#93  
 1,2,4-Trichlorobenzene  
 Concen: 1.460 ug/l  
 RT: 14.92 min Scan# 4089  
 Delta R.T. 0.00 min  
 Lab File: VN058327.D  
 Acq: 24 Sep 2019 5:12

Tgt Ion: 180 Resp: 7604  
 Ion Ratio Lower Upper  
 180 100  
 182 98.2 47.8 143.3  
 145 34.0 15.4 46.4





#94

Hexachlorobutadiene

Concen: 0.646 ug/l

RT: 15.02 min Scan# 4120

Delta R.T. 0.01 min

Lab File: VN058327.D

Acq: 24 Sep 2019 5:12

Instrument :

MSVOA\_N

ClientSampleId :

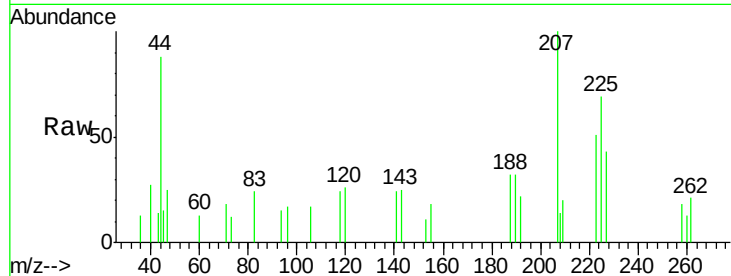
Tot Ion:225 Resp: 1626

Ion Ratio Lower Upper

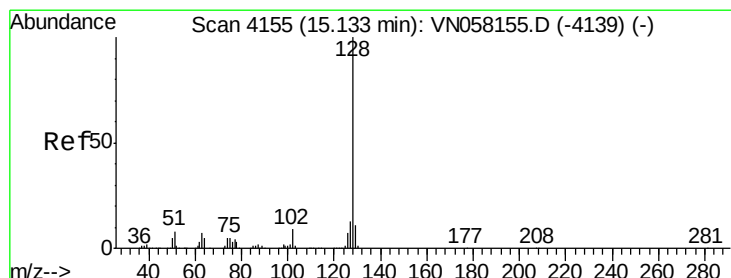
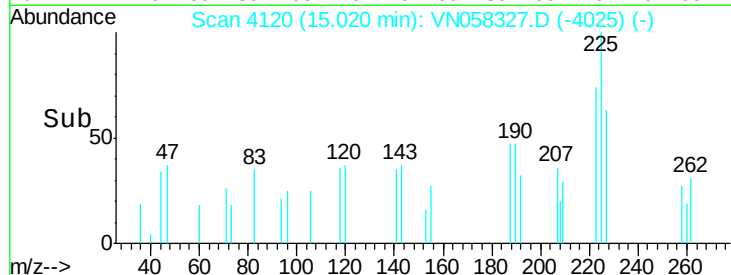
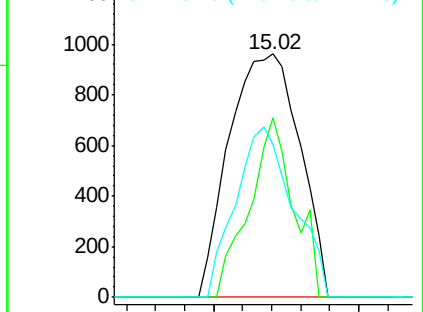
225 100

223 46.7 32.6 97.7

227 57.7 33.0 99.0



Abundance Ion 224.70 (224.40 to 225.40): V  
Ion 222.70 (222.40 to 223.40): V  
Ion 226.70 (226.40 to 227.40): V



#95

Naphthalene

Concen: 3.053 ug/l

RT: 15.14 min Scan# 4157

Delta R.T. 0.01 min

Lab File: VN058327.D

Acq: 24 Sep 2019 5:12

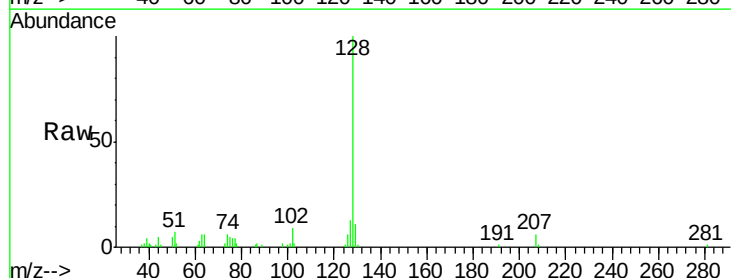
Tgt Ion:128 Resp: 41201

Ion Ratio Lower Upper

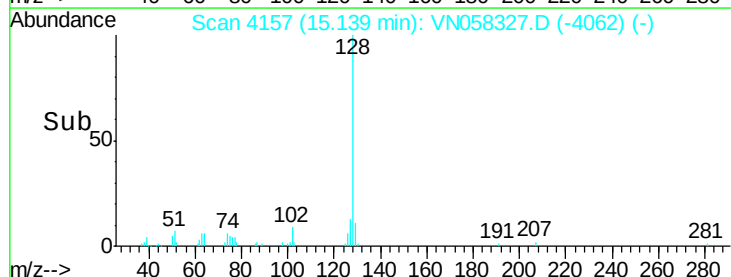
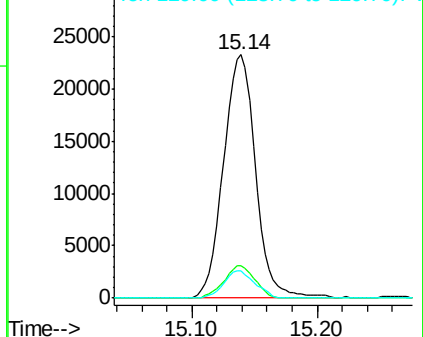
128 100

127 12.7 10.2 15.2

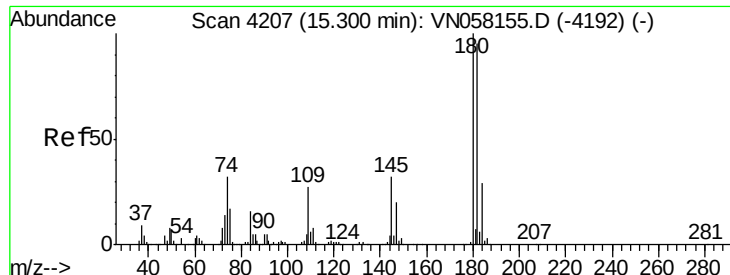
129 10.8 8.6 12.8



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: 2.110 ug/l  
 RT: 15.30 min Scan# 4208  
 Delta R.T. 0.00 min  
 Lab File: VN058327.D  
 Acq: 24 Sep 2019 5:12

Instrument :  
 MSVOA\_N  
 ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 180     | 100   |       |       |
| 182     | 93.4  | 47.4  | 142.2 |
| 145     | 33.9  | 16.1  | 48.2  |

