

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN082919\  
 Data File : VN057560.D  
 Acq On : 29 Aug 2019 20:02  
 Operator : JC/SP  
 Sample : K4528-31  
 Misc : 5.00mL/MSVOA N/WATER  
 ALS Vial : 15 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :

Quant Time: Aug 30 12:08:43 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N082919W.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Aug 30 08:56:38 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.65  | 168  | 649849   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.58  | 114  | 1010733  | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.41 | 117  | 862548   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.35 | 152  | 222636   | 50.00 | ug/l  | 0.00     |

## System Monitoring Compounds

|                           |        |     |          |       |        |      |
|---------------------------|--------|-----|----------|-------|--------|------|
| 33) 1,2-Dichloroethane-d4 | 8.02   | 65  | 382469   | 37.43 | ug/l   | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 74.86% |      |
| 35) Dibromofluoromethane  | 7.58   | 113 | 313455   | 35.73 | ug/l   | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 71.46% |      |
| 50) Toluene-d8            | 10.08  | 98  | 1237059  | 38.58 | ug/l   | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 77.16% |      |
| 62) 4-Bromofluorobenzene  | 12.40  | 95  | 324071   | 29.87 | ug/l   | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 59.74% |      |

## Target Compounds

|                                |       |     |        |           |        | Qvalue |
|--------------------------------|-------|-----|--------|-----------|--------|--------|
| 5) Bromomethane                | 2.56  | 94  | 2565   | 0.277     | ug/l   | 84     |
| 10) Methyl Iodide              | 3.94  | 142 | 4612   | 0.215     | ug/l # | 42     |
| 13) Acrolein                   | 3.59  | 56  | 439    | 0.489     | ug/l # | 77     |
| 16) Acetone                    | 3.81  | 43  | 31188  | 7.254     | ug/l # | 88     |
| 18) Methyl Acetate             | 4.32  | 43  | 2609   | Below Cal | #      | 75     |
| 20) Methylene Chloride         | 4.53  | 84  | 8130   | 1.021     | ug/l # | 77     |
| 25) 2-Butanone                 | 6.84  | 43  | 3560   | 1.049     | ug/l   | 94     |
| 29) Tetrahydrofuran            | 7.22  | 42  | 442    | 0.208     | ug/l # | 74     |
| 31) Cyclohexane                | 7.65  | 56  | 13626  | 1.103     | ug/l # | 1      |
| 36) 1,1-Dichloropropene        | 7.65  | 75  | 48199  | 4.408     | ug/l # | 52     |
| 38) Carbon Tetrachloride       | 7.65  | 117 | 63365  | 4.956     | ug/l # | 17     |
| 41) Methacrylonitrile          | 7.16  | 41  | 102    | 1.297     | ug/l # | 17     |
| 43) Isopropyl Acetate          | 8.16  | 43  | 83464  | 6.173     | ug/l # | 94     |
| 48) Methyl methacrylate        | 9.18  | 41  | 4169   | 0.653     | ug/l # | 15     |
| 49) 1,4-Dioxane                | 9.17  | 88  | 110    | 0.944     | ug/l # | 1      |
| 51) 4-Methyl-2-Pentanone       | 9.98  | 43  | 6492   | 0.898     | ug/l # | 87     |
| 54) cis-1,3-Dichloropropene    | 9.90  | 75  | 41753  | 3.154     | ug/l # | 55     |
| 59) 2-Hexanone                 | 10.76 | 43  | 65870  | 13.202    | ug/l # | 62     |
| 71) Bromoform                  | 12.40 | 173 | 2471   | 0.434     | ug/l # | 1      |
| 73) Isopropylbenzene           | 12.25 | 105 | 2151   | Below Cal |        | 99     |
| 74) N-amyl acetate             | 12.07 | 43  | 2087   | Below Cal | #      | 87     |
| 75) 1,1,2,2-Tetrachloroethane  | 12.52 | 83  | 228    | Below Cal | #      | 25     |
| 76) 1,2,3-Trichloropropane     | 12.40 | 75  | 173593 | 41.853    | ug/l # | 100    |
| 80) 1,3,5-Trimethylbenzene     | 12.74 | 105 | 3799   | 0.204     | ug/l   | 93     |
| 81) trans-1,4-Dichloro-2-buten | 12.40 | 75  | 173593 | 117.242   | ug/l # | 8      |
| 82) 4-Chlorotoluene            | 12.78 | 91  | 4056   | 0.298     | ug/l   | 96     |
| 83) tert-Butylbenzene          | 12.99 | 119 | 2241   | Below Cal |        | 86     |
| 84) 1,2,4-Trimethylbenzene     | 13.05 | 105 | 3440   | 0.202     | ug/l   | 96     |
| 85) sec-Butylbenzene           | 13.18 | 105 | 4920   | 0.240     | ug/l   | 92     |
| 86) p-Isopropyltoluene         | 13.29 | 119 | 3915   | 0.222     | ug/l   | 91     |
| 87) 1,3-Dichlorobenzene        | 13.28 | 146 | 3680   | 0.461     | ug/l   | 83     |
| 88) 1,4-Dichlorobenzene        | 13.28 | 146 | 3680   | 0.481     | ug/l   | 85     |
| 89) n-Butylbenzene             | 13.62 | 91  | 5384   | 0.404     | ug/l   | 87     |
| 91) 1,2-Dichlorobenzene        | 13.66 | 146 | 3670   | 0.493     | ug/l   | 92     |

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ALS Vial : 15 Sample Multiplier: 1

Instrument :  
MSVOA\_N  
ClientSampleId :

Quant Time: Aug 30 12:08:43 2019  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N082919W.M  
Quant Title : SW846 8260  
QLast Update : Fri Aug 30 08:56:38 2019  
Response via : Initial Calibration

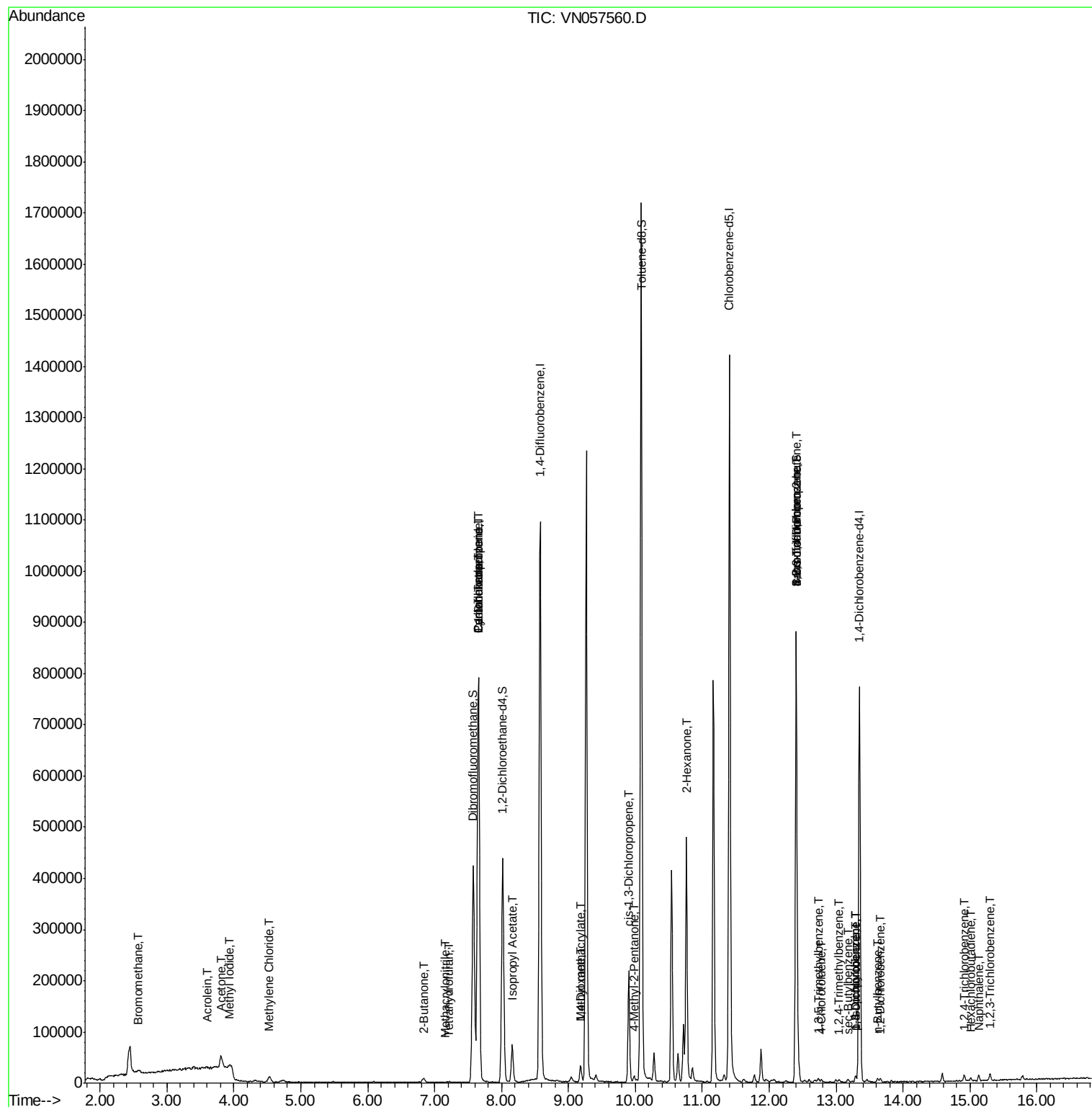
| Internal Standards         | R.T.  | QIon | Response | Conc  | Units  | Dev(Min) |
|----------------------------|-------|------|----------|-------|--------|----------|
| 93) 1,2,4-Trichlorobenzene | 14.91 | 180  | 3911     | 4.954 | ug/l # | 90       |
| 94) Hexachlorobutadiene    | 15.01 | 225  | 1115     | 0.454 | ug/l   | 88       |
| 95) Naphthalene            | 15.13 | 128  | 9824     | 1.334 | ug/l   | 98       |
| 96) 1,2,3-Trichlorobenzene | 15.30 | 180  | 4409     | 1.752 | ug/l   | 92       |

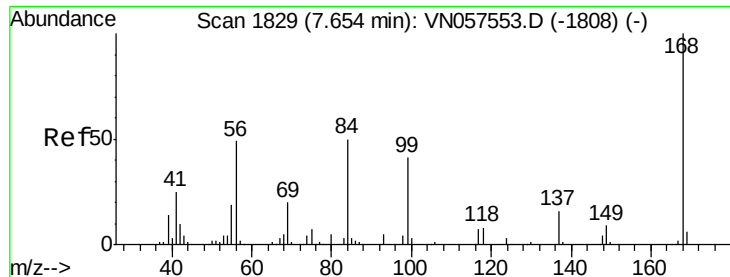
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA N\DATA\VN082919\  
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Quant Title : SW846 8260  
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Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.65 min Scan# 1829

Delta R.T. -0.00 min

Lab File: VN057560.D

Acq: 29 Aug 2019 20:02

Instrument :

MSVOA\_N

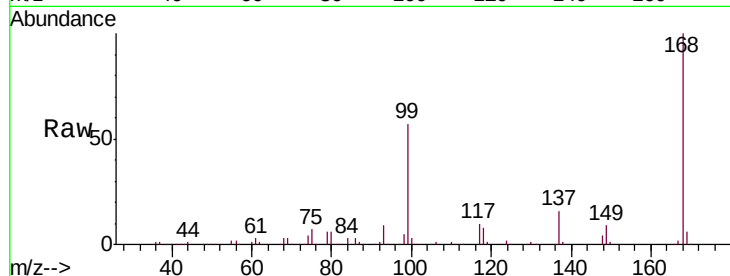
ClientSampled :

Tot Ion:168 Resp: 649849

Ion Ratio Lower Upper

168 100

99 56.9 50.6 76.0



Abundance Ion 167.90 (167.60 to 168.60): VN057553.D (-1808) (-)

Ion 98.90 (98.60 to 99.60): VN057553.D (-1808) (-)

7.65

250000

200000

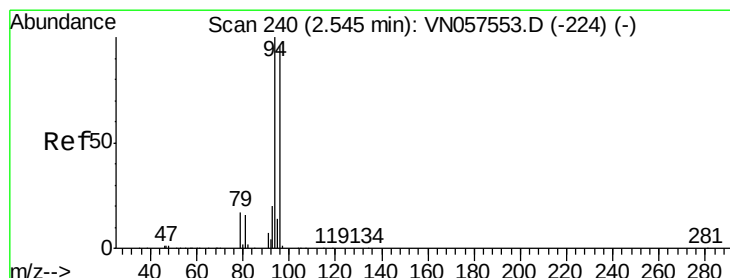
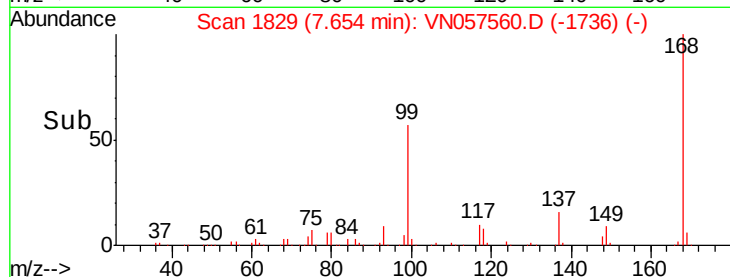
150000

100000

50000

0

Time-->



#5

Bromomethane

Concen: 0.277 ug/l

RT: 2.56 min Scan# 245

Delta R.T. 0.02 min

Lab File: VN057560.D

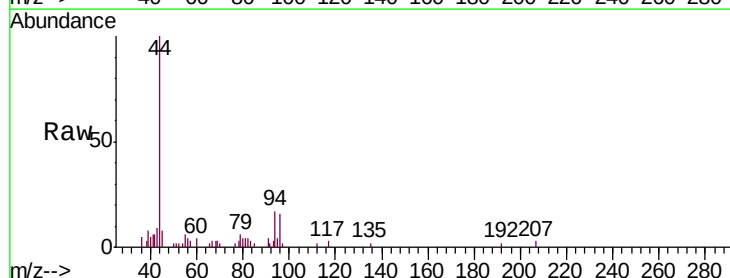
Acq: 29 Aug 2019 20:02

Tgt Ion: 94 Resp: 2565

Ion Ratio Lower Upper

94 100

96 80.2 76.2 114.4



Abundance Ion 93.90 (93.60 to 94.60): VN057553.D (-224) (-)

Ion 95.90 (95.60 to 96.60): VN057553.D (-224) (-)

2000

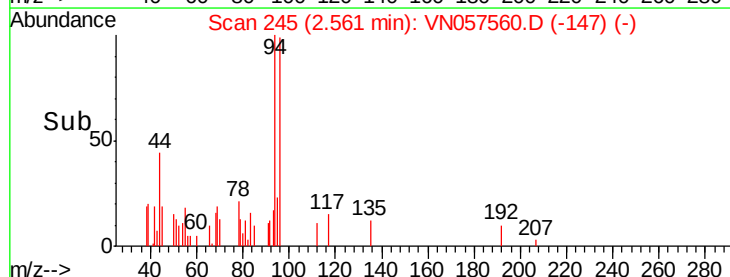
1500

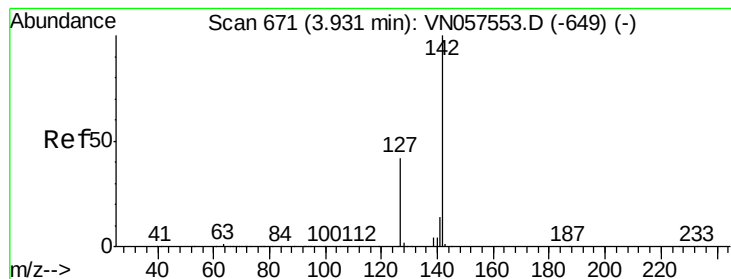
1000

500

0

Time-->





#10

Methvl Iodide

Concen: 0.215 ug/l

RT: 3.94 min Scan# 673

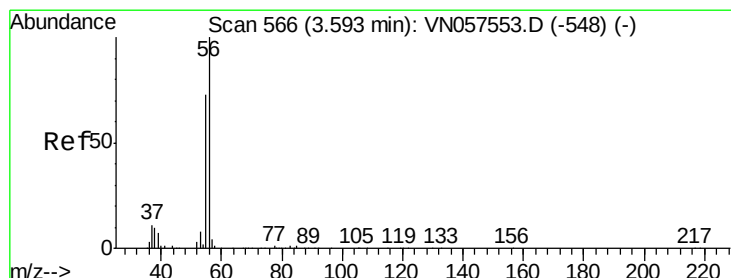
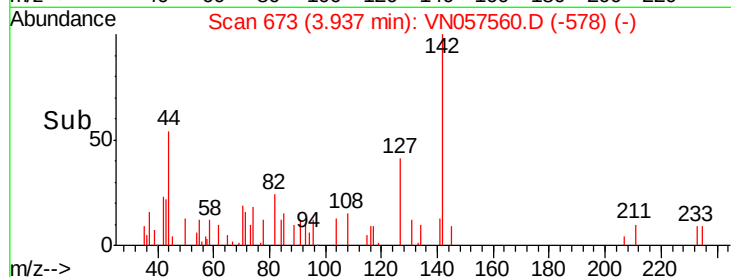
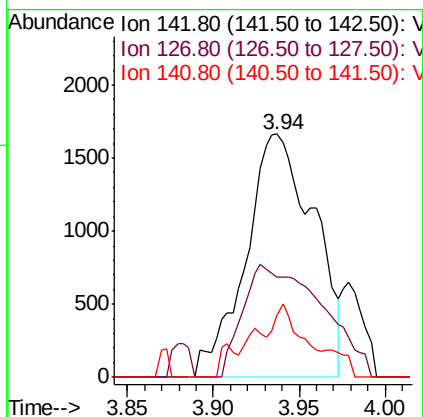
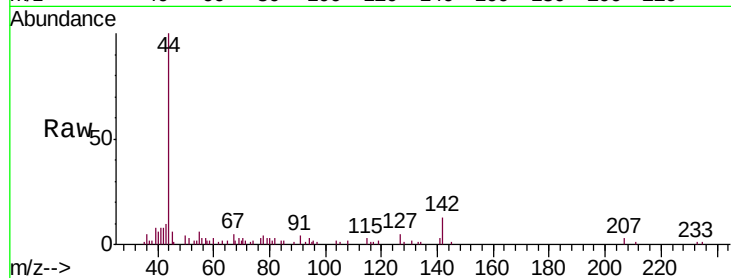
Delta R.T. 0.01 min

Lab File: VN057560.D

Acq: 29 Aug 2019 20:02

Instrument :  
MSVOA\_N  
ClientSampleId :

|             |       |            |
|-------------|-------|------------|
| Tot Ion:142 | Resp: | 4612       |
| Ion Ratio   | Lower | Upper      |
| 142         | 100   |            |
| 127         | 0.0   | 37.8 56.8# |
| 141         | 7.5   | 11.9 17.9# |



#13

Acrolein

Concen: 0.489 ug/l

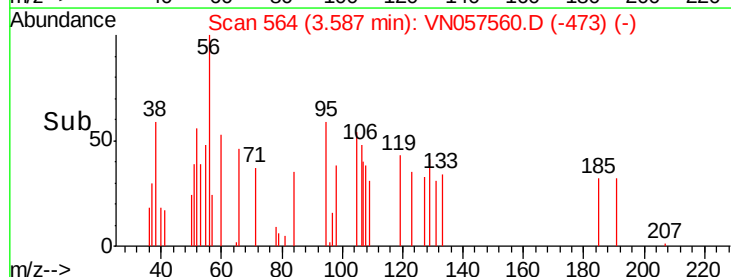
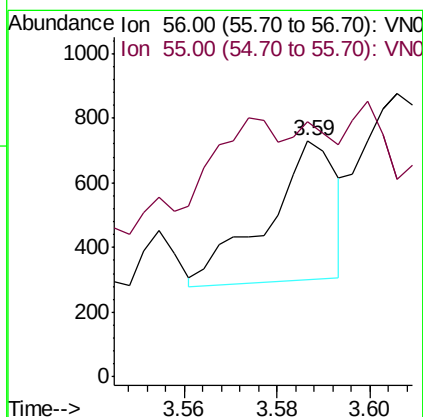
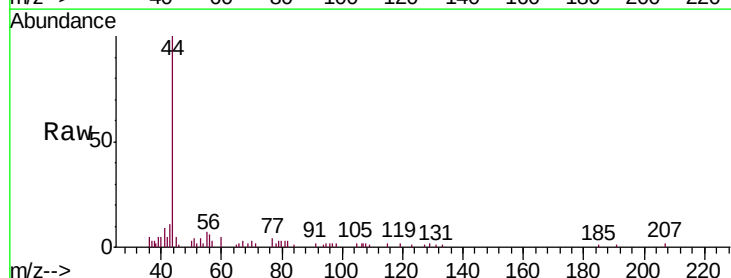
RT: 3.59 min Scan# 564

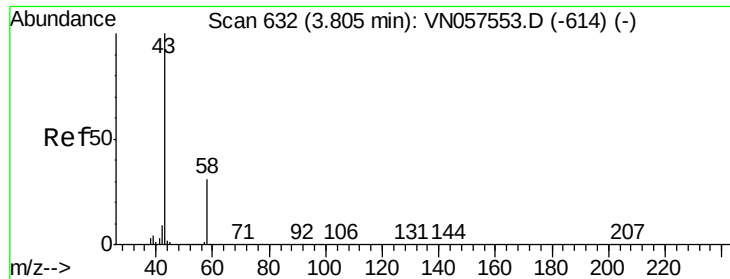
Delta R.T. -0.01 min

Lab File: VN057560.D

Acq: 29 Aug 2019 20:02

|             |       |            |
|-------------|-------|------------|
| Tgt Ion: 56 | Resp: | 439        |
| Ion Ratio   | Lower | Upper      |
| 56          | 100   |            |
| 55          | 93.2  | 59.0 88.4# |

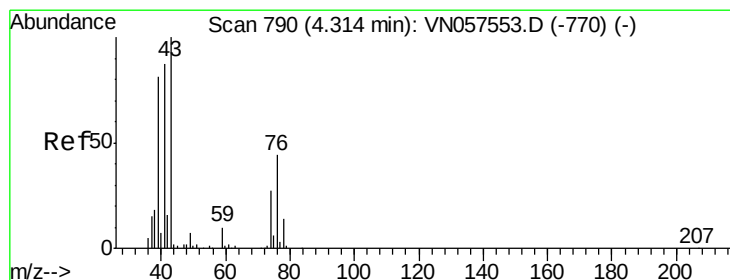
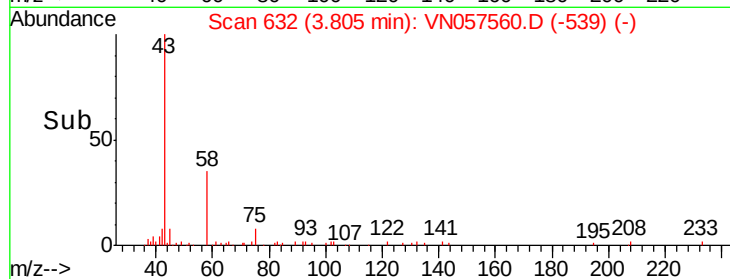
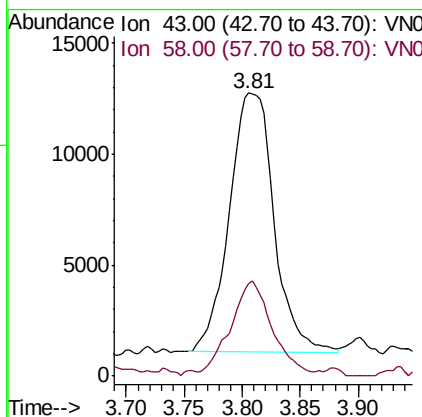
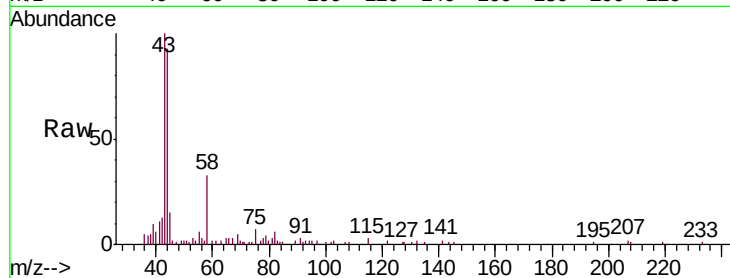




#16  
Acetone  
Concen: 7.254 ug/l  
RT: 3.81 min Scan# 632  
Delta R.T. -0.00 min  
Lab File: VN057560.D  
Acq: 29 Aug 2019 20:02

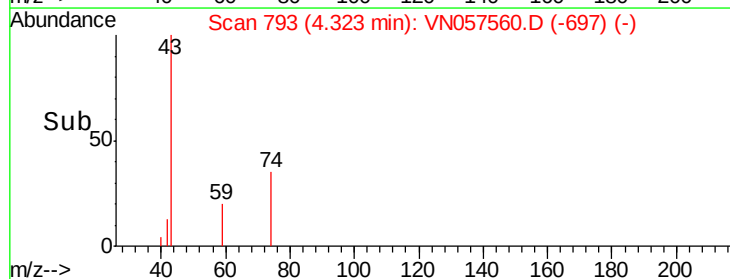
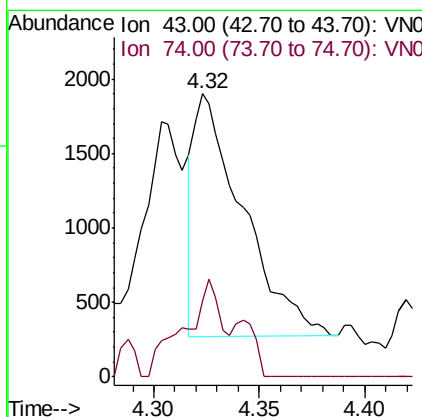
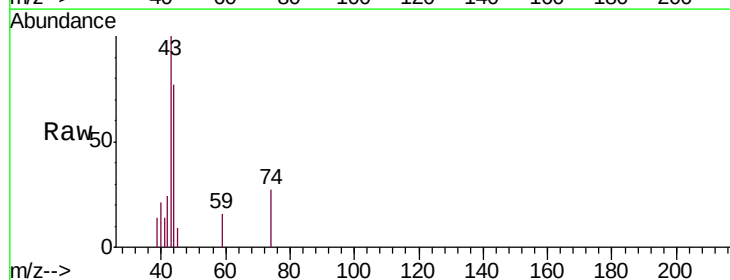
Instrument :  
MSVOA\_N  
ClientSampled :

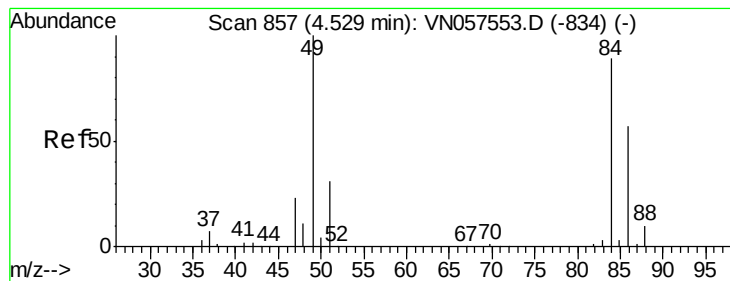
Tot Ion: 43 Resp: 31188  
Ion Ratio Lower Upper  
43 100  
58 34.0 22.1 33.1#



#18  
Methyl Acetate  
Concen: Below Cal  
RT: 4.32 min Scan# 793  
Delta R.T. 0.01 min  
Lab File: VN057560.D  
Acq: 29 Aug 2019 20:02

Tgt Ion: 43 Resp: 2609  
Ion Ratio Lower Upper  
43 100  
74 31.5 15.9 23.9#





#20

Methylene Chloride

Concen: 1.021 ug/l

RT: 4.53 min Scan# 857

Delta R.T. -0.00 min

Lab File: VN057560.D

Acq: 29 Aug 2019 20:02

Instrument :

MSVOA\_N

ClientSampled :

Tot Ion: 84 Resp: 8130

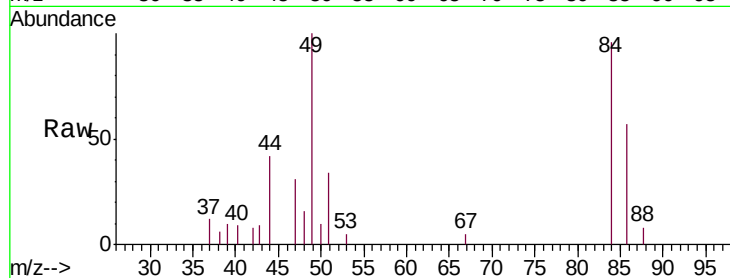
Ion Ratio Lower Upper

84 100

49 103.6 117.0 175.4#

51 35.5 35.5 53.3#

86 58.9 49.8 74.8

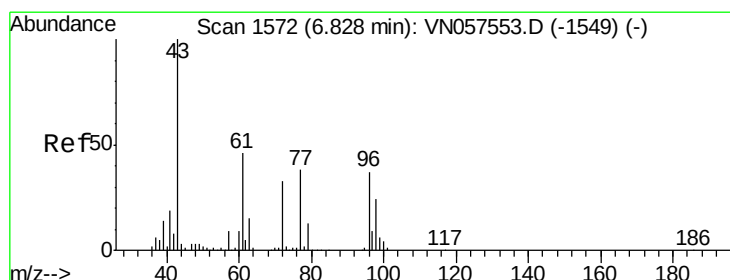
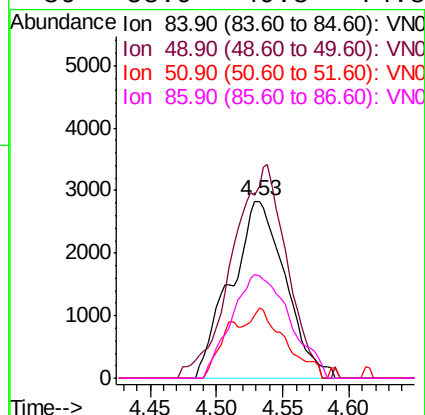
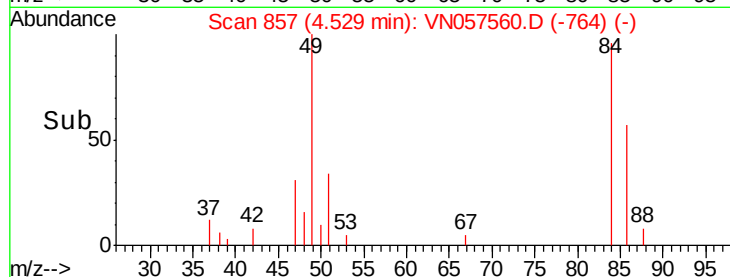


Abundance Ion 83.90 (83.60 to 84.60): VN0

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



#25

2-Butanone

Concen: 1.049 ug/l

RT: 6.84 min Scan# 1576

Delta R.T. 0.01 min

Lab File: VN057560.D

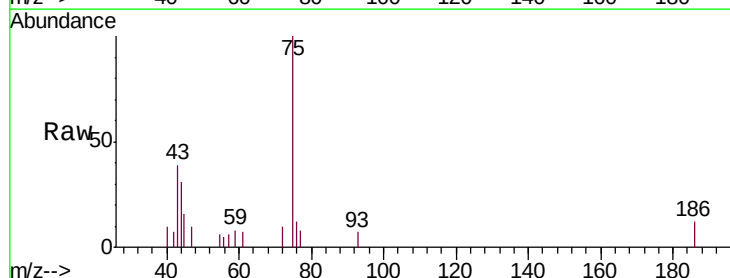
Acq: 29 Aug 2019 20:02

Tgt Ion: 43 Resp: 3560

Ion Ratio Lower Upper

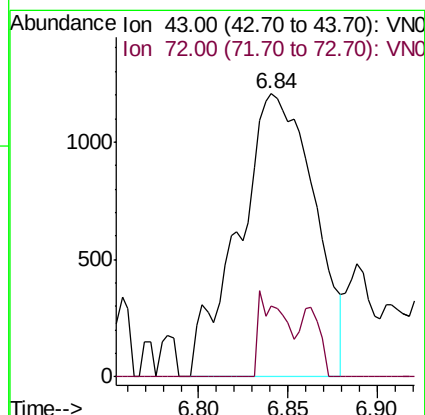
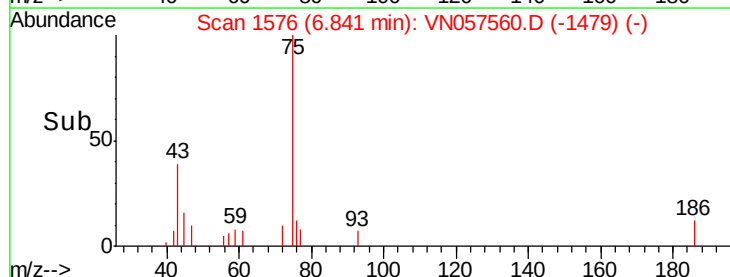
43 100

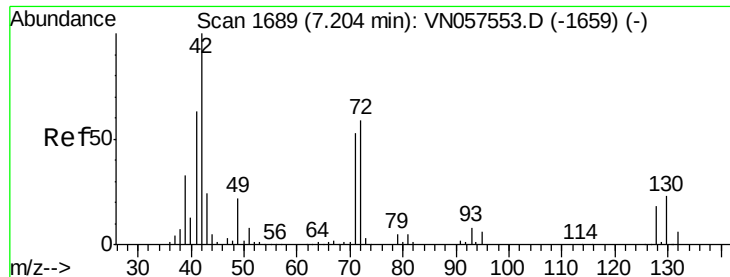
72 25.1 17.8 26.8



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 72.00 (71.70 to 72.70): VN0

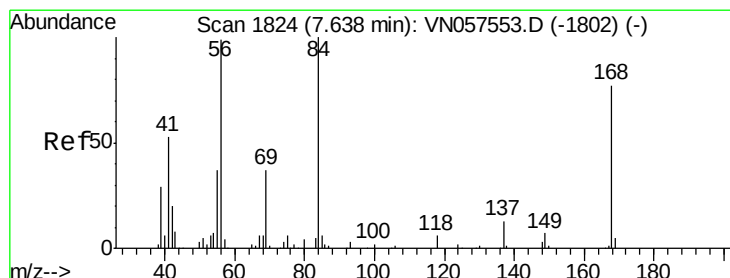
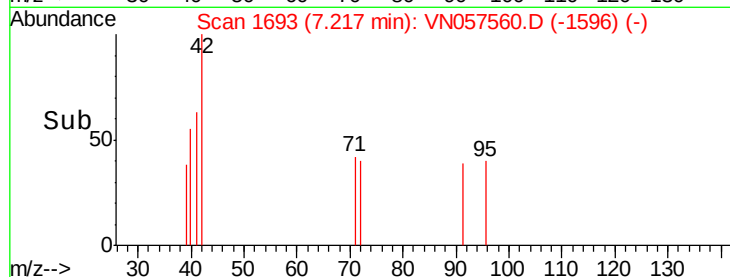
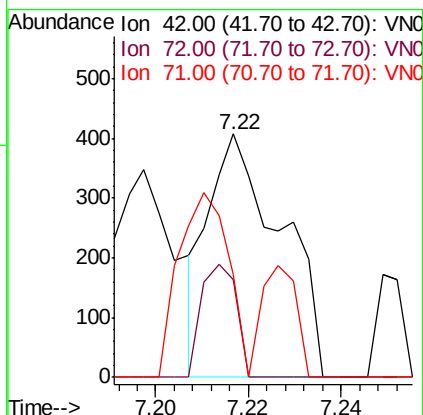
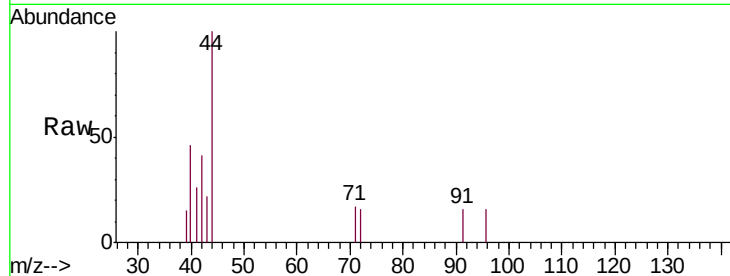




#29  
Tetrahydrofuran  
Concen: 0.208 ug/l  
RT: 7.22 min Scan# 1693  
Delta R.T. 0.01 min  
Lab File: VN057560.D  
Acq: 29 Aug 2019 20:02

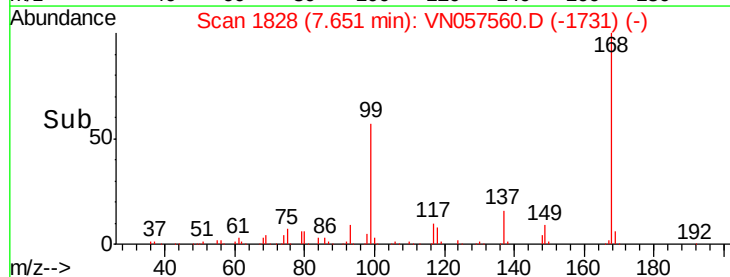
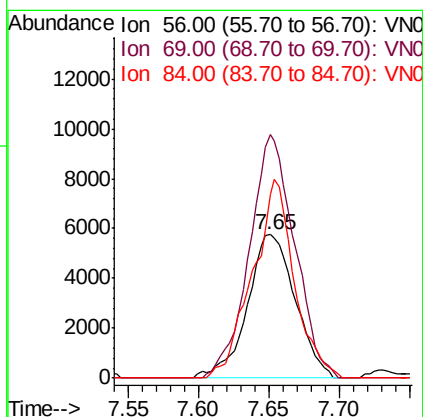
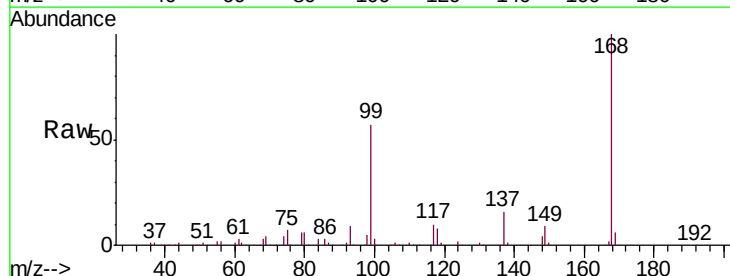
Instrument :  
MSVOA\_N  
ClientSampled :

Tot Ion: 42 Resp: 442  
Ion Ratio Lower Upper  
42 100  
72 22.4 30.1 45.1#  
71 52.0 28.8 43.2#

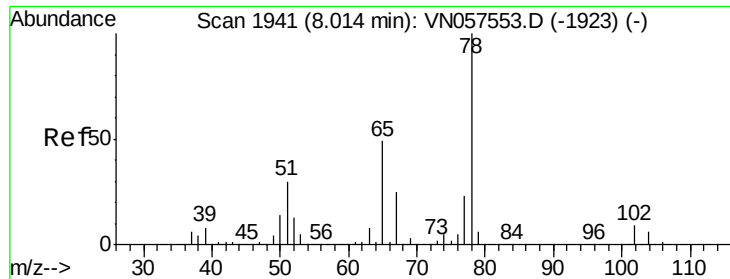


#31  
Cyclohexane  
Concen: 1.103 ug/l  
RT: 7.65 min Scan# 1828  
Delta R.T. 0.01 min  
Lab File: VN057560.D  
Acq: 29 Aug 2019 20:02

Tgt Ion: 56 Resp: 13626  
Ion Ratio Lower Upper  
56 100  
69 169.7 25.0 37.6#  
84 127.7 62.5 93.7#



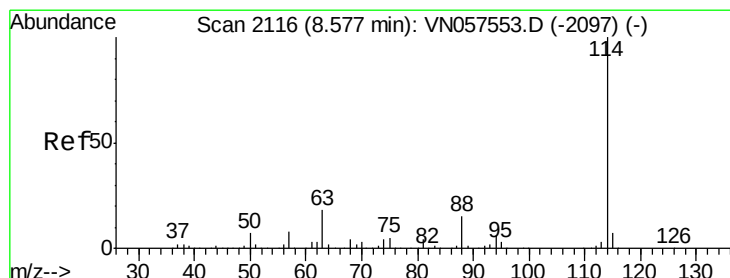
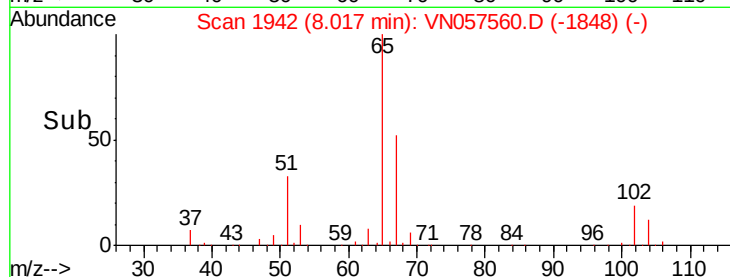
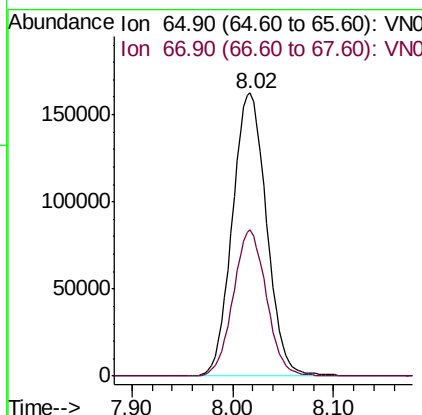
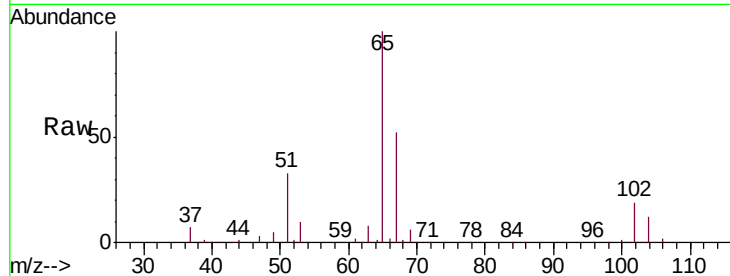




#33  
 1,2-Dichloroethane-d4  
 Concen: 37.428 ug/l  
 RT: 8.02 min Scan# 1942  
 Delta R.T. 0.00 min  
 Lab File: VN057560.D  
 Acq: 29 Aug 2019 20:02

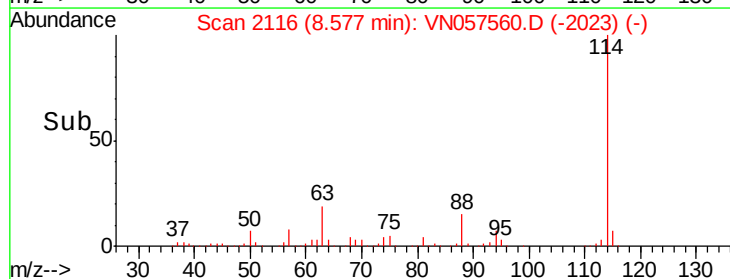
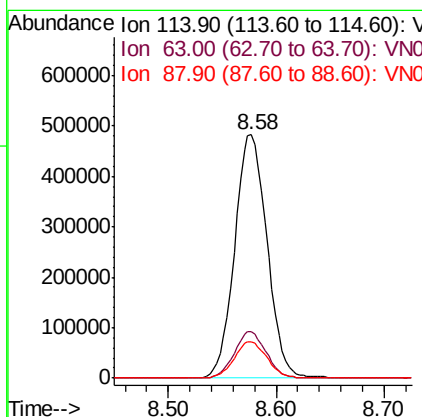
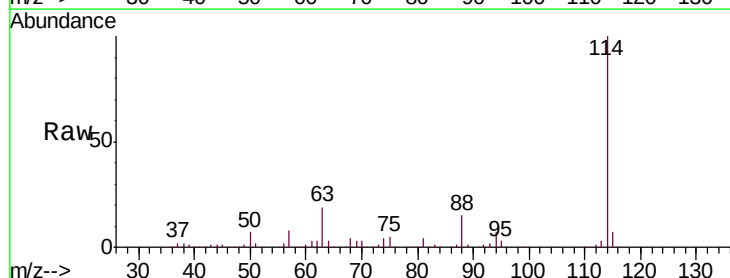
Instrument :  
 MSVOA\_N  
 ClientSampled :

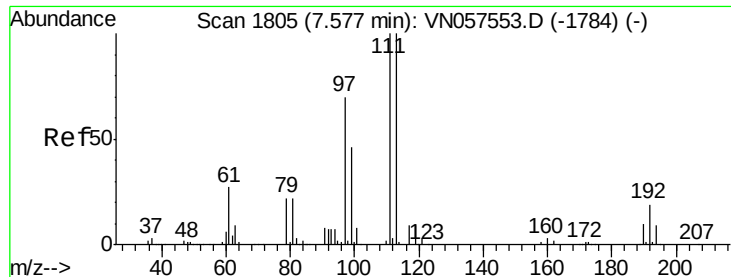
Tot Ion: 65 Resp: 382469  
 Ion Ratio Lower Upper  
 65 100  
 67 50.2 0.0 103.8



#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.58 min Scan# 2116  
 Delta R.T. -0.00 min  
 Lab File: VN057560.D  
 Acq: 29 Aug 2019 20:02

Tgt Ion: 114 Resp: 1010733  
 Ion Ratio Lower Upper  
 114 100  
 63 18.9 0.0 50.2  
 88 15.0 0.0 34.6

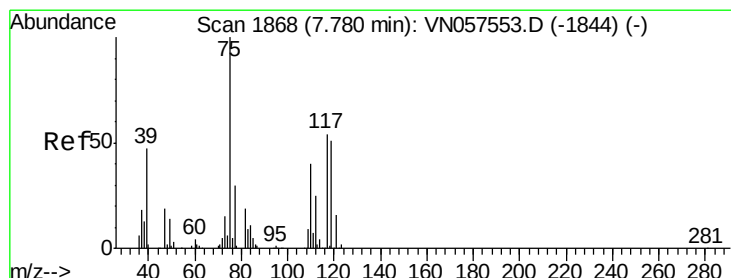
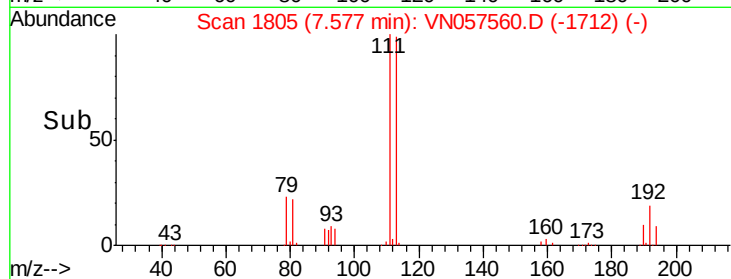
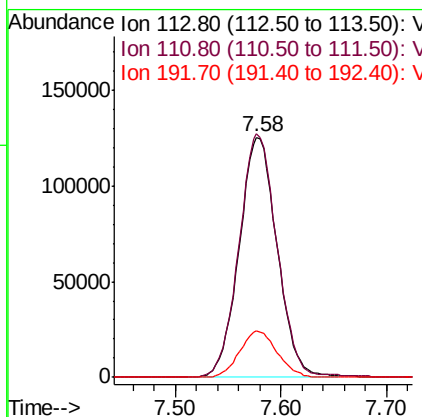
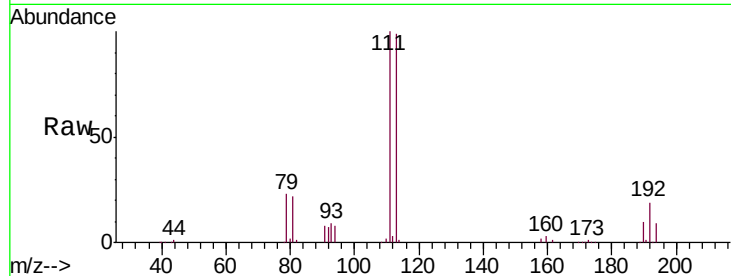




#35  
 Dibromofluoromethane  
 Concen: 35.727 ug/l  
 RT: 7.58 min Scan# 1805  
 Delta R.T. -0.00 min  
 Lab File: VN057560.D  
 Acq: 29 Aug 2019 20:02

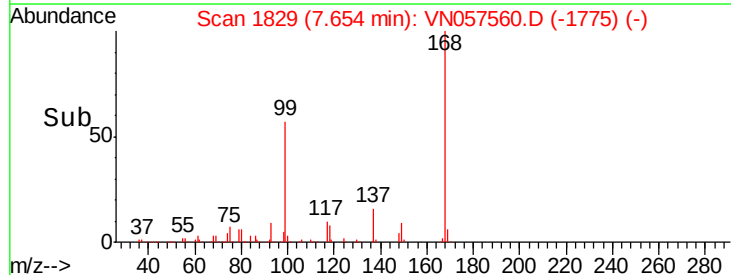
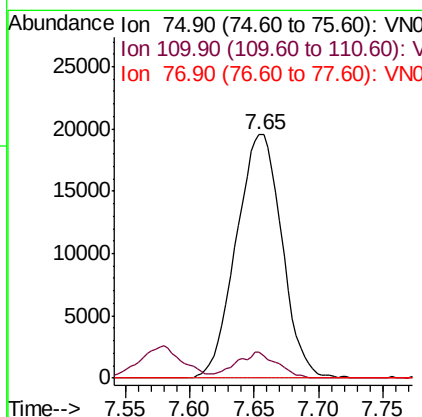
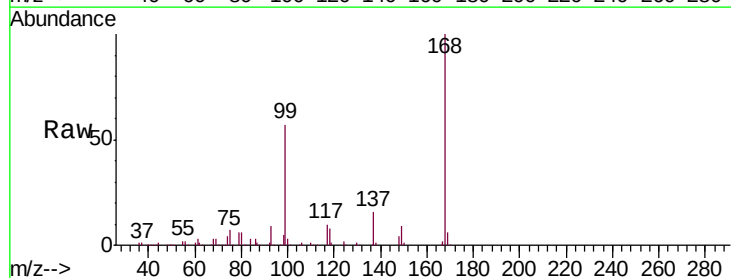
Instrument :  
 MSVOA\_N  
 ClientSampleId :

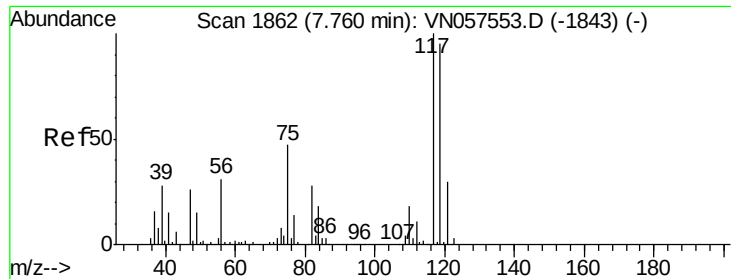
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 113     | 100   |       |       |
| 111     | 102.3 | 83.8  | 125.6 |
| 192     | 19.1  | 13.5  | 20.3  |



#36  
 1,1-Dichloropropene  
 Concen: 4.408 ug/l  
 RT: 7.65 min Scan# 1829  
 Delta R.T. -0.13 min  
 Lab File: VN057560.D  
 Acq: 29 Aug 2019 20:02

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 75      | 100   |       |       |
| 110     | 9.5   | 16.1  | 48.3# |
| 77      | 0.0   | 24.8  | 37.2# |





#38

Carbon Tetrachloride

Concen: 4.956 ug/l

RT: 7.65 min Scan# 1828

Delta R.T. -0.11 min

Lab File: VN057560.D

Acq: 29 Aug 2019 20:02

Instrument :

MSVOA\_N

ClientSampled :

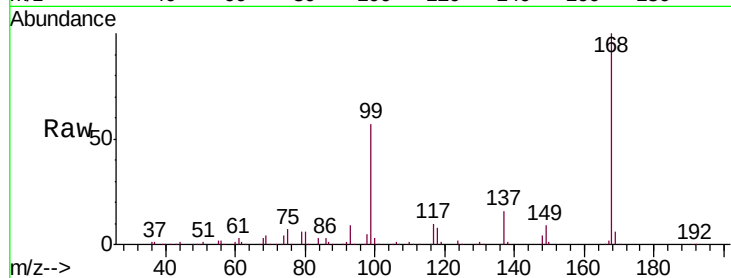
Tot Ion:117 Resp: 63365

Ion Ratio Lower Upper

117 100

119 5.8 76.2 114.4#

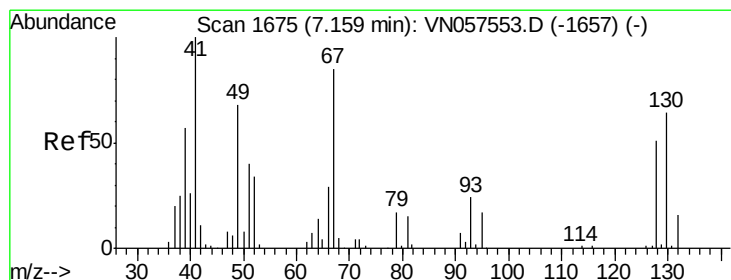
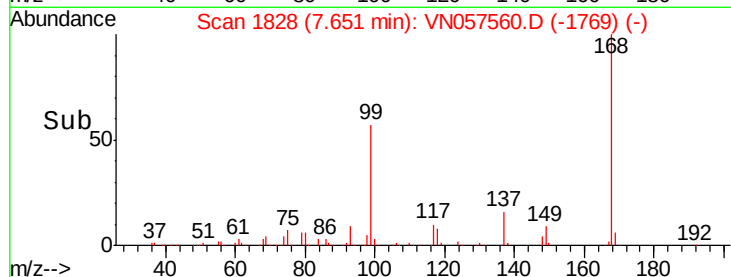
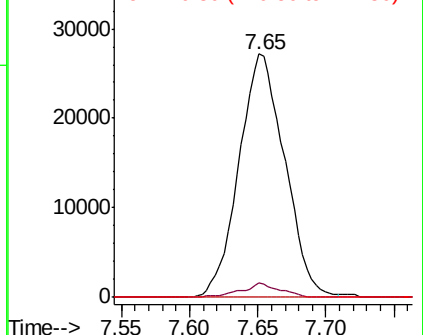
121 0.0 23.8 35.6#



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



#41

Methacrylonitrile

Concen: 1.297 ug/l

RT: 7.16 min Scan# 1674

Delta R.T. -0.00 min

Lab File: VN057560.D

Acq: 29 Aug 2019 20:02

Tgt Ion: 41 Resp: 102

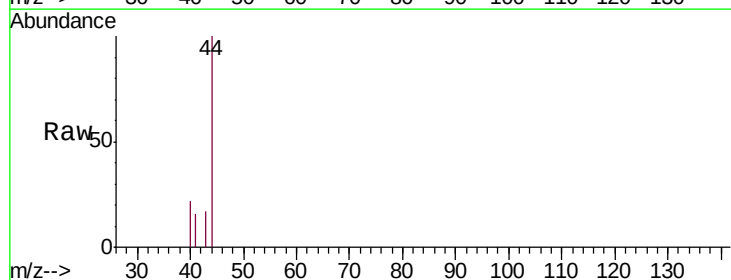
Ion Ratio Lower Upper

41 100

39 0.0 53.6 80.4#

67 0.0 65.4 98.2#

52 0.0 29.8 44.6#

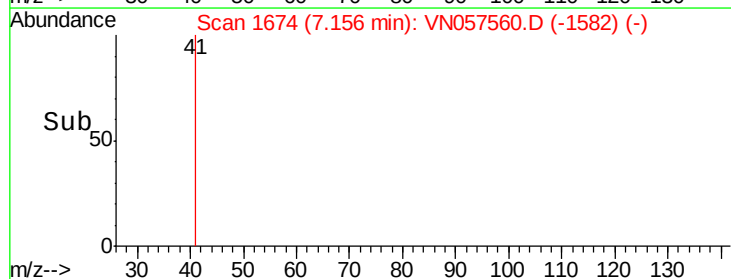
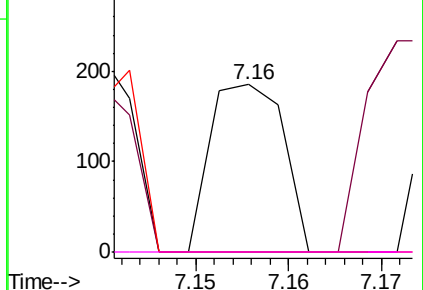


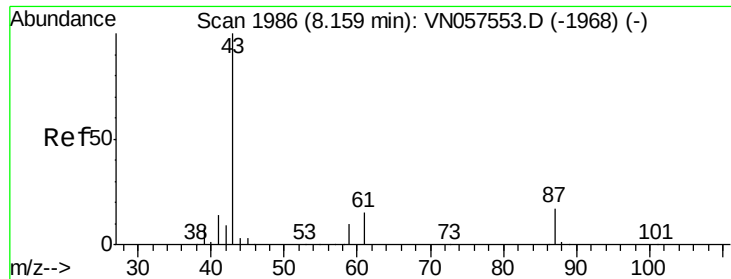
Abundance Ion 41.00 (40.70 to 41.70): V

Ion 39.00 (38.70 to 39.70): V

Ion 67.00 (66.70 to 67.70): V

Ion 52.00 (51.70 to 52.70): V





#43

Isopropyl Acetate

Concen: 6.173 ug/l

RT: 8.16 min Scan# 1986

Delta R.T. -0.00 min

Lab File: VN057560.D

Acq: 29 Aug 2019 20:02

Instrument :

MSVOA\_N

ClientSampled :

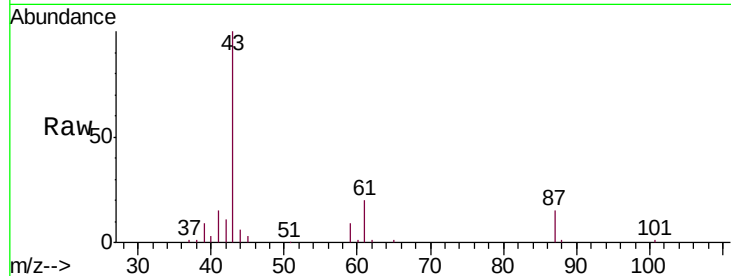
Tot Ion: 43 Resp: 83464

Ion Ratio Lower Upper

43 100

61 19.2 14.5 21.7

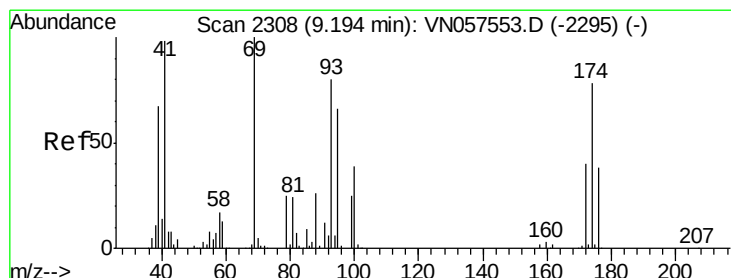
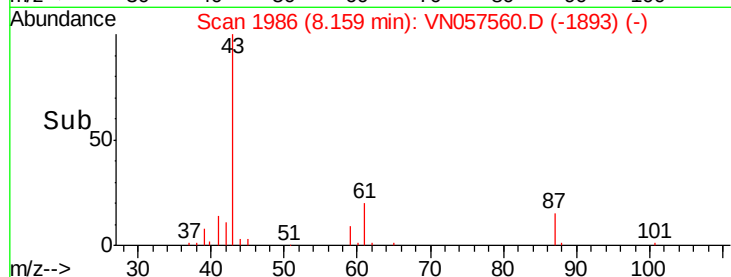
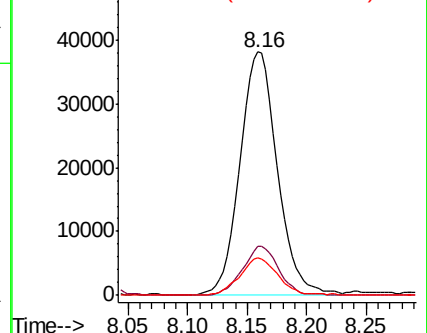
87 15.5 8.6 12.8#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 61.00 (60.70 to 61.70): VN0

Ion 87.00 (86.70 to 87.70): VN0



#48

Methyl methacrylate

Concen: 0.653 ug/l

RT: 9.18 min Scan# 2303

Delta R.T. -0.02 min

Lab File: VN057560.D

Acq: 29 Aug 2019 20:02

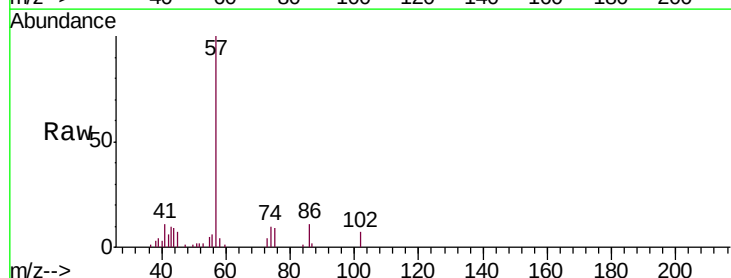
Tgt Ion: 41 Resp: 4169

Ion Ratio Lower Upper

41 100

69 0.0 59.3 88.9#

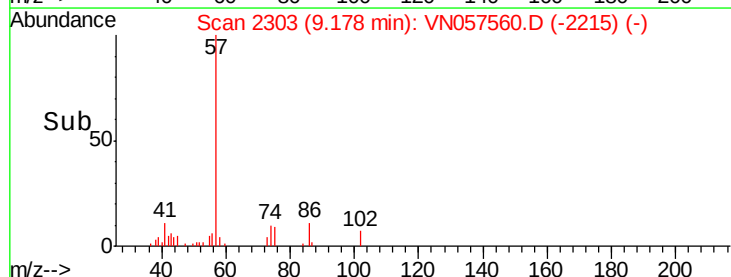
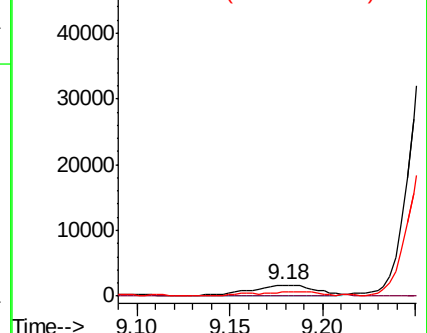
39 0.0 50.6 75.8#

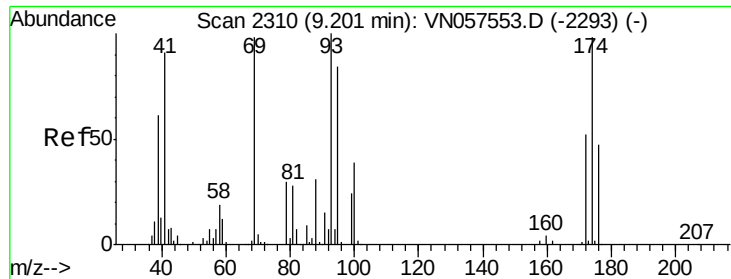


Abundance Ion 41.00 (40.70 to 41.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 39.00 (38.70 to 39.70): VN0

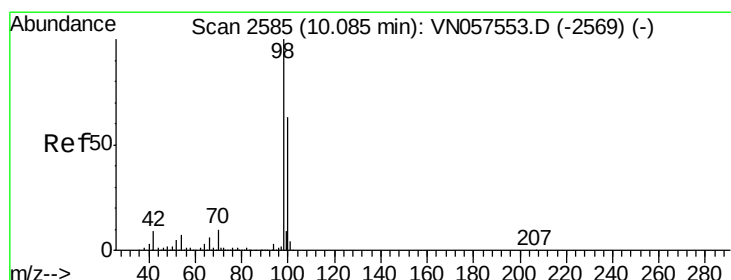
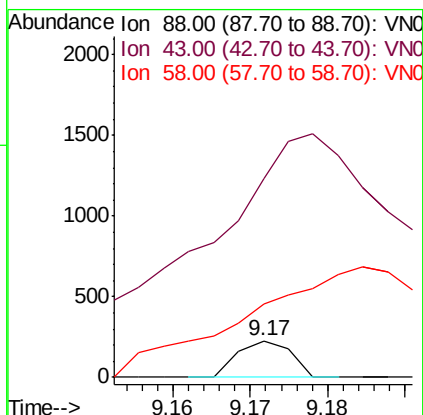
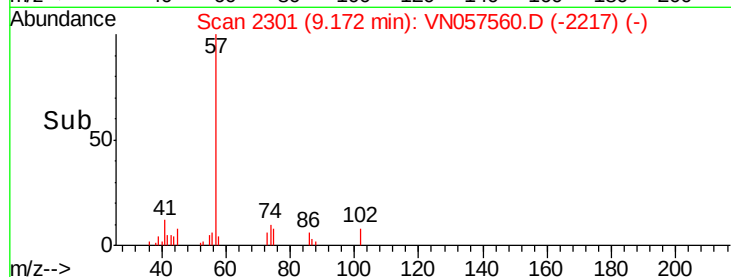
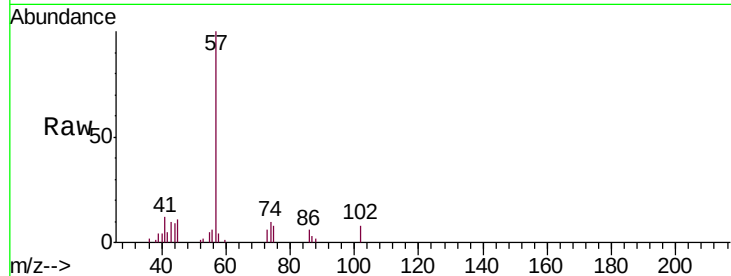




#49  
 1,4-Dioxane  
 Concen: 0.944 ug/l  
 RT: 9.17 min Scan# 2301  
 Delta R.T. -0.03 min  
 Lab File: VN057560.D  
 Acq: 29 Aug 2019 20:02

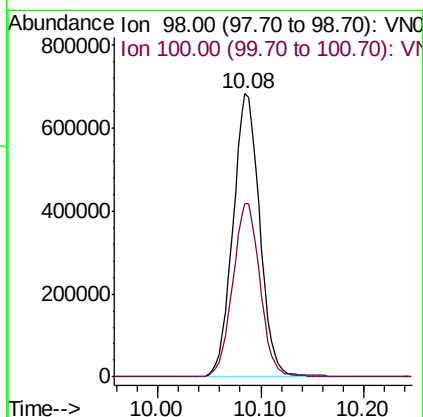
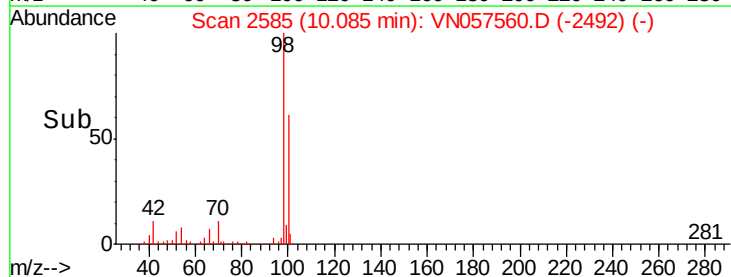
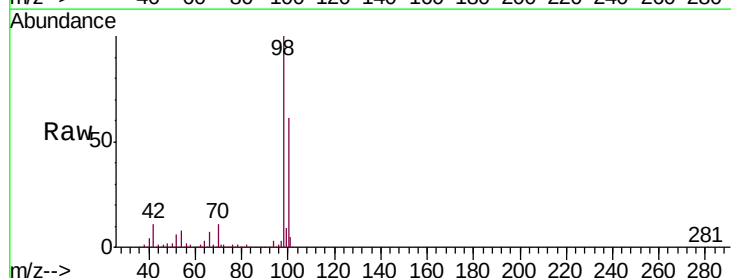
Instrument :  
 MSVOA\_N  
 ClientSampled :

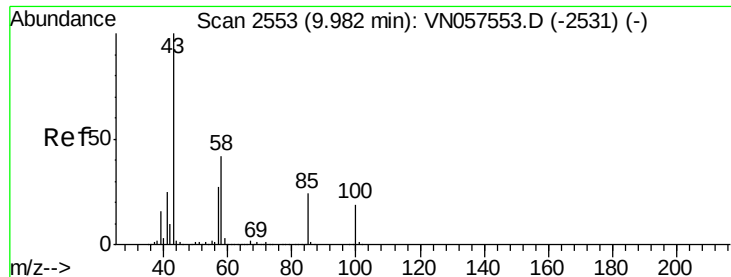
Tot Ion: 88 Resp: 110  
 Ion Ratio Lower Upper  
 88 100  
 43 0.0 31.0 46.6#  
 58 1100.9 64.5 96.7#



#50  
 Toluene-d8  
 Concen: 38.578 ug/l  
 RT: 10.08 min Scan# 2585  
 Delta R.T. -0.00 min  
 Lab File: VN057560.D  
 Acq: 29 Aug 2019 20:02

Tgt Ion: 98 Resp: 1237059  
 Ion Ratio Lower Upper  
 98 100  
 100 62.5 50.4 75.6





#51

4-Methyl-2-Pentanone

Concen: 0.898 ug/l

RT: 9.98 min Scan# 2552

Delta R.T. -0.00 min

Lab File: VN057560.D

Acq: 29 Aug 2019 20:02

Instrument :

MSVOA\_N

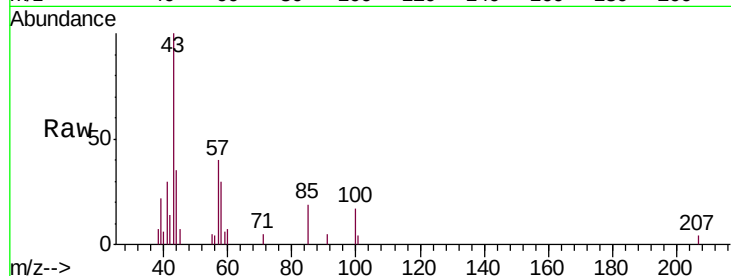
ClientSampled :

Tot Ion: 43 Resp: 6492

Ion Ratio Lower Upper

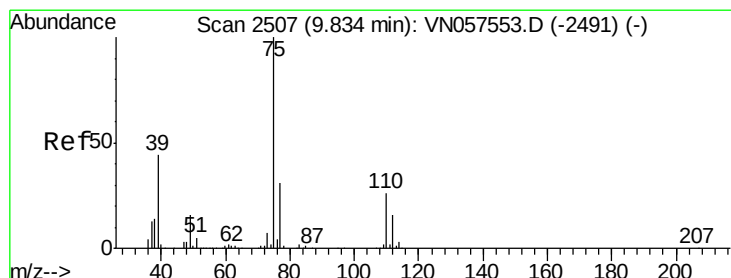
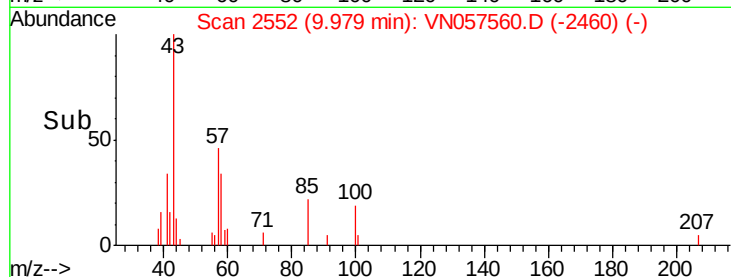
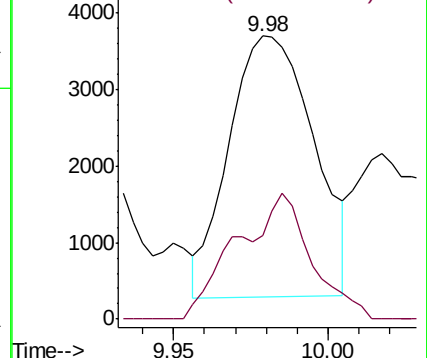
43 100

58 42.5 27.9 41.9#



Abundance Ion 43.00 (42.70 to 43.70): VN057553.D (-2531) (-)

Ion 58.00 (57.70 to 58.70): VN057553.D (-2531) (-)



#54

cis-1,3-Dichloropropene

Concen: 3.154 ug/l

RT: 9.90 min Scan# 2528

Delta R.T. 0.07 min

Lab File: VN057560.D

Acq: 29 Aug 2019 20:02

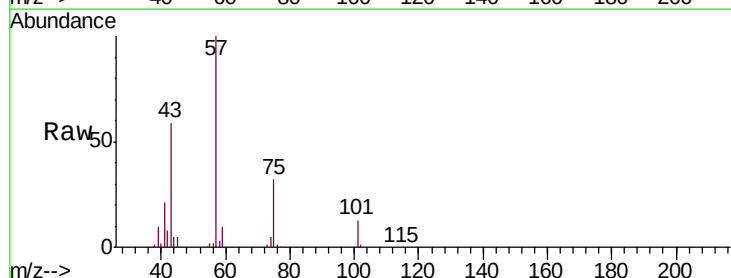
Tgt Ion: 75 Resp: 41753

Ion Ratio Lower Upper

75 100

77 0.6 25.0 37.6#

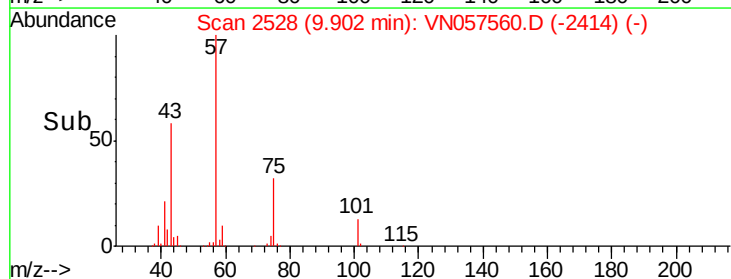
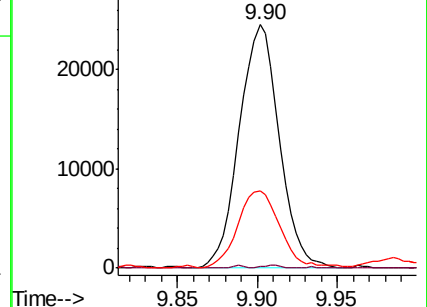
39 31.2 49.2 73.8#

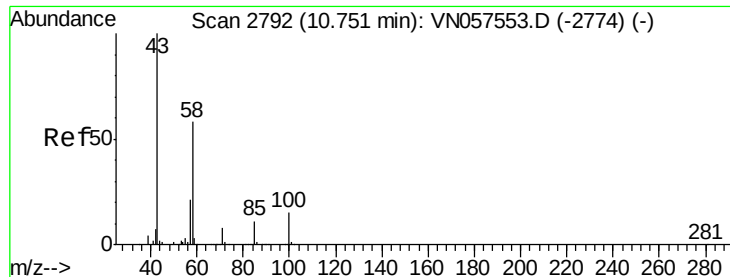


Abundance Ion 74.90 (74.60 to 75.60): VN057553.D (-2491) (-)

Ion 76.90 (76.60 to 77.60): VN057553.D (-2491) (-)

Ion 39.00 (38.70 to 39.70): VN057553.D (-2491) (-)

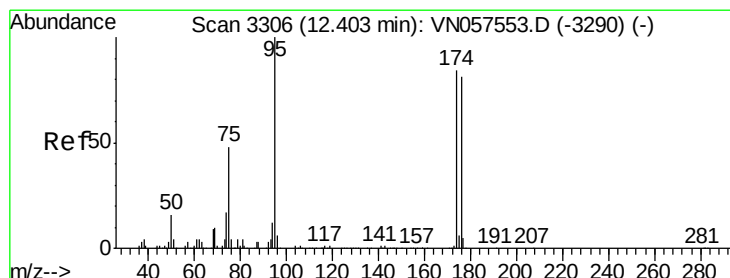
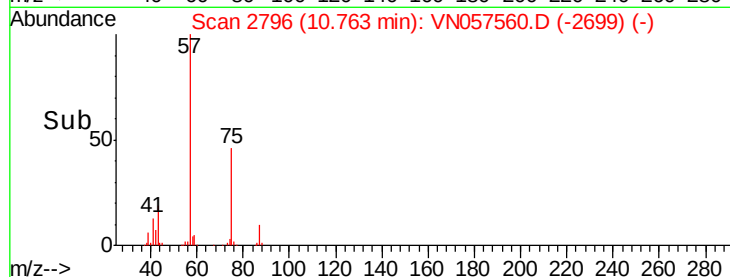
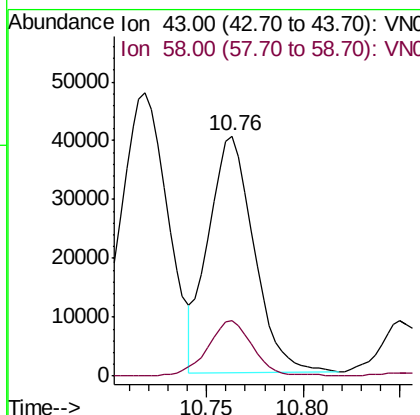
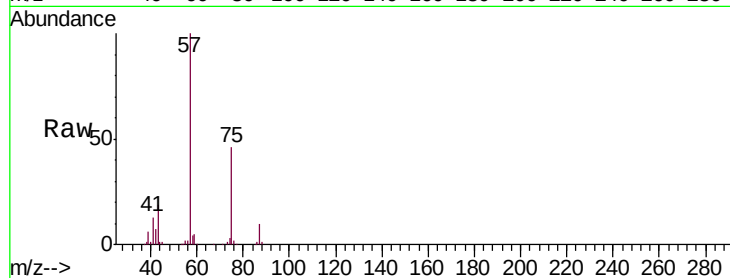




#59  
2-Hexanone  
Concen: 13.202 ug/l  
RT: 10.76 min Scan# 2796  
Delta R.T. 0.01 min  
Lab File: VN057560.D  
Acq: 29 Aug 2019 20:02

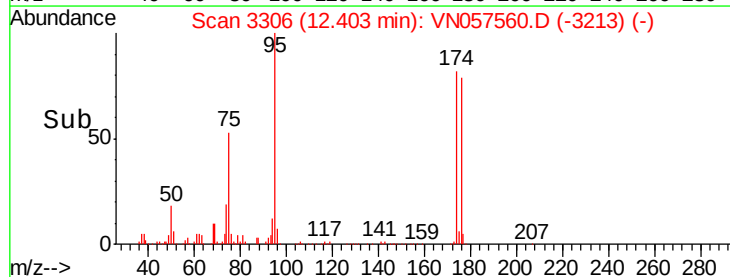
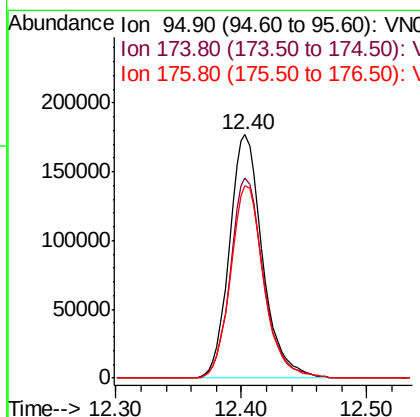
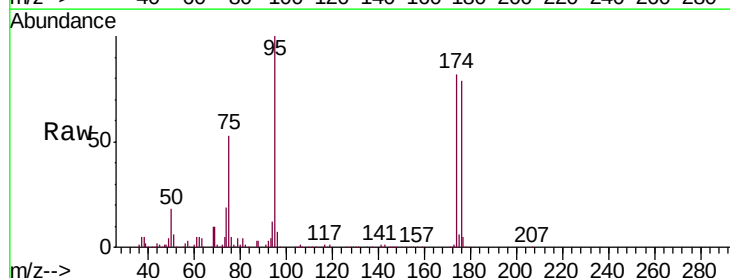
Instrument :  
MSVOA\_N  
ClientSampled :

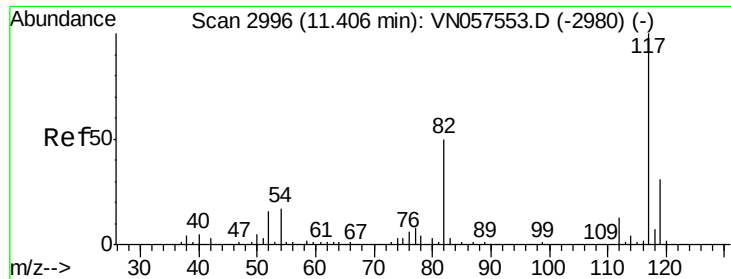
Tot Ion: 43 Resp: 65870  
Ion Ratio Lower Upper  
43 100  
58 23.0 24.6 73.6#



#62  
4-Bromofluorobenzene  
Concen: 29.867 ug/l  
RT: 12.40 min Scan# 3306  
Delta R.T. -0.00 min  
Lab File: VN057560.D  
Acq: 29 Aug 2019 20:02

Tgt Ion: 95 Resp: 324071  
Ion Ratio Lower Upper  
95 100  
174 82.2 0.0 133.0  
176 79.4 0.0 130.8

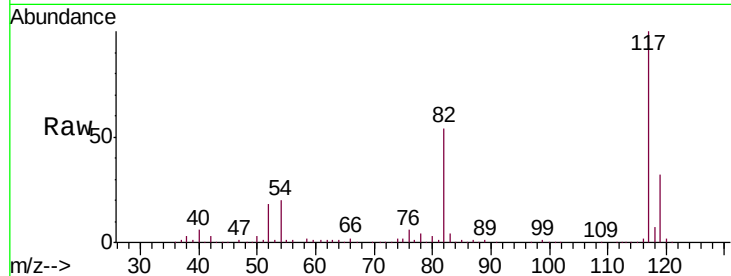




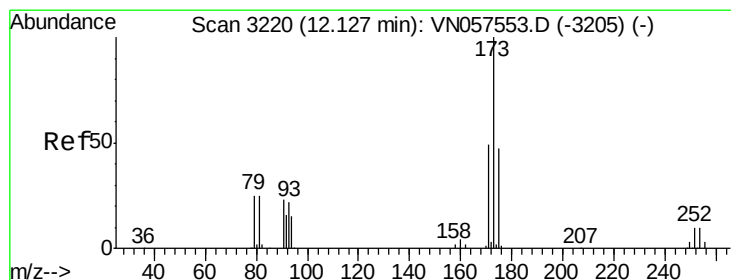
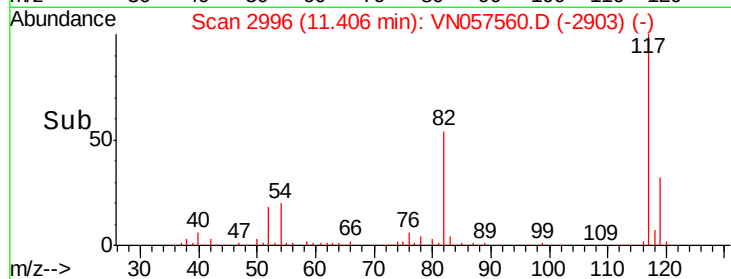
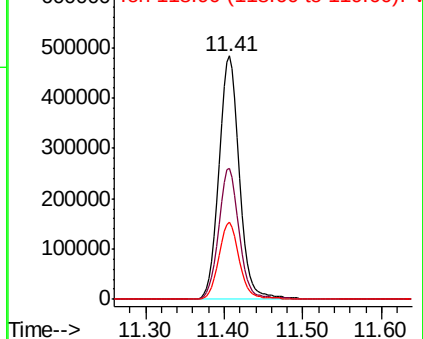
#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.41 min Scan# 2996  
Delta R.T. -0.00 min  
Lab File: VN057560.D  
Acq: 29 Aug 2019 20:02

Instrument :  
MSVOA\_N  
ClientSampleId :

Tot Ion:117 Resp: 862548  
Ion Ratio Lower Upper  
117 100  
82 53.9 50.6 75.8  
119 31.5 24.6 36.8

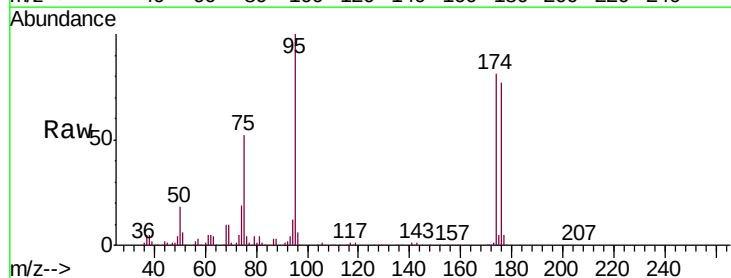


Abundance Ion 116.90 (116.60 to 117.60): V  
Ion 82.00 (81.70 to 82.70): V  
Ion 118.90 (118.60 to 119.60): V

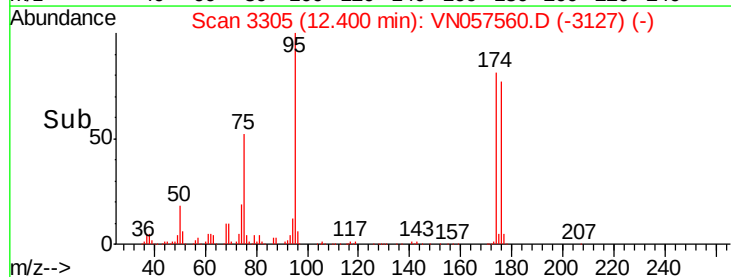
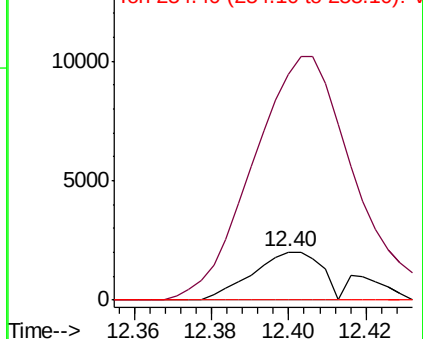


#71  
Bromoform  
Concen: 0.434 ug/l  
RT: 12.40 min Scan# 3305  
Delta R.T. 0.27 min  
Lab File: VN057560.D  
Acq: 29 Aug 2019 20:02

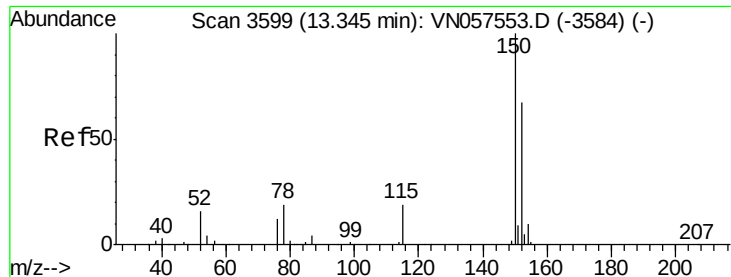
Tgt Ion:173 Resp: 2471  
Ion Ratio Lower Upper  
173 100  
175 598.6 23.9 71.8#  
254 0.0 0.1 0.1#



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# 3600

Delta R.T. 0.00 min

Lab File: VN057560.D

Acq: 29 Aug 2019 20:02

Instrument :

MSVOA\_N

ClientSampled :

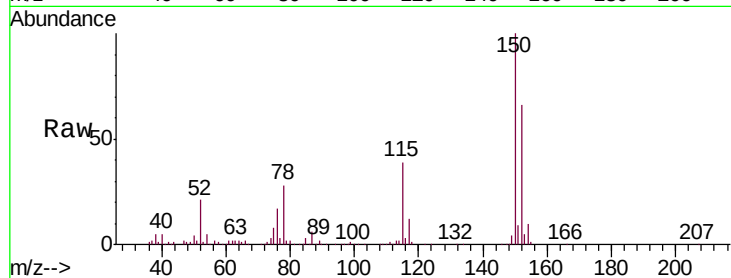
Tot Ion:152 Resp: 222636

Ion Ratio Lower Upper

152 100

115 59.5 32.0 96.0

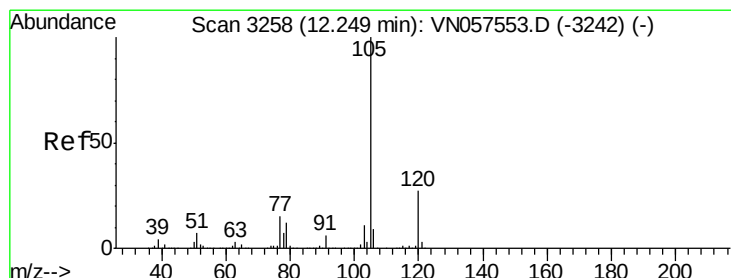
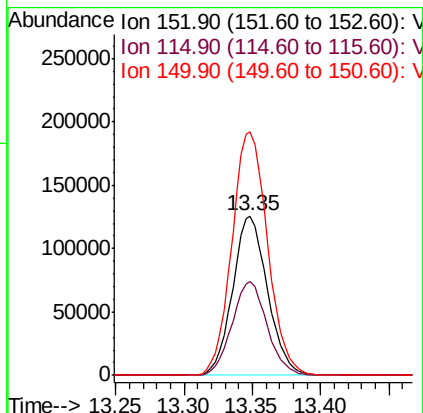
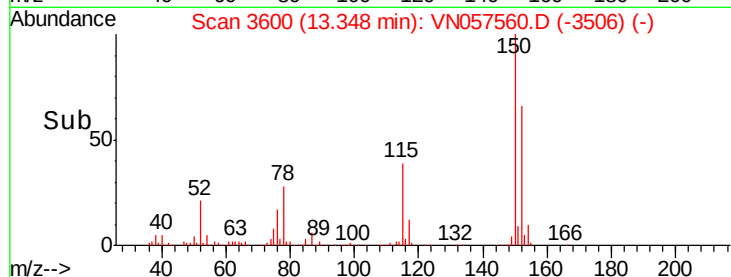
150 156.8 0.0 346.6



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# 3259

Delta R.T. 0.00 min

Lab File: VN057560.D

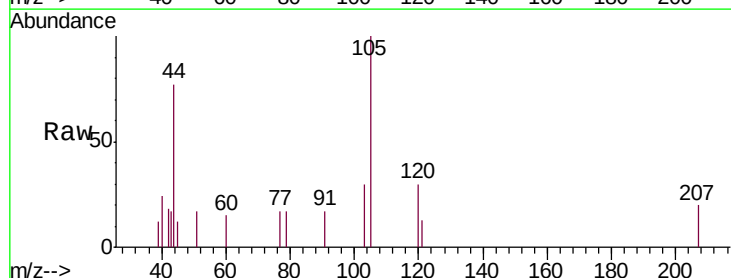
Acq: 29 Aug 2019 20:02

Tgt Ion:105 Resp: 2151

Ion Ratio Lower Upper

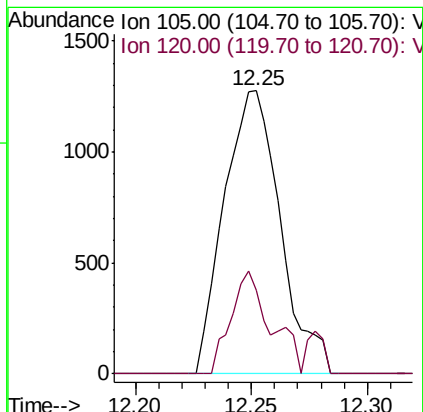
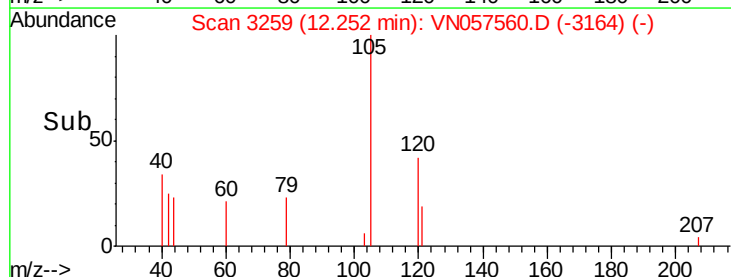
105 100

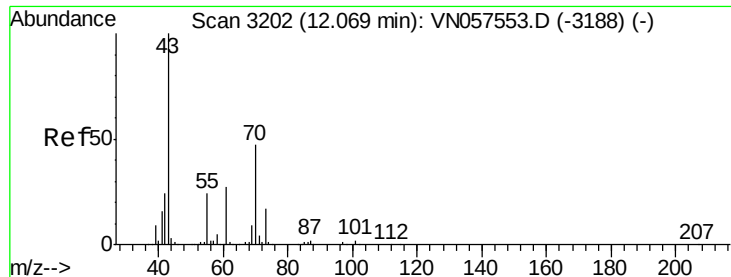
120 25.6 12.7 38.0



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: VN057560.D

Acq: 29 Aug 2019 20:02

Instrument :

MSVOA\_N

ClientSampled :

Tot Ion: 43 Resp: 2087

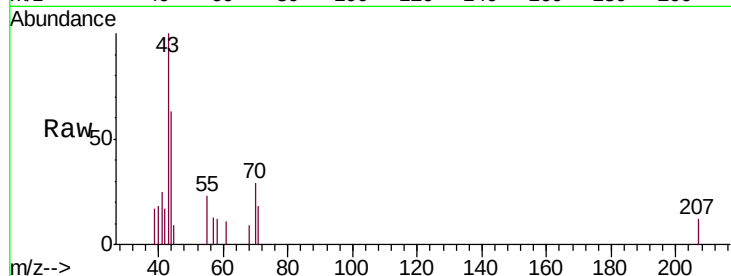
Ion Ratio Lower Upper

43 100

70 42.1 27.8 41.6#

55 23.5 17.0 25.4

61 11.8 17.0 25.6#

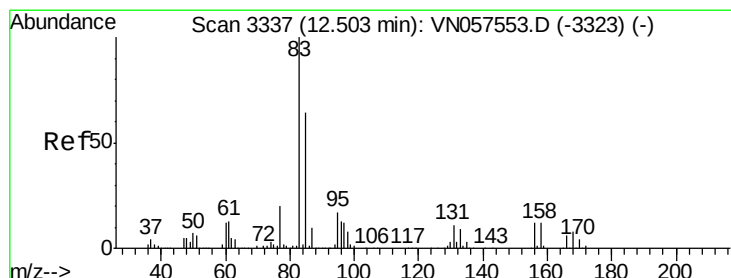
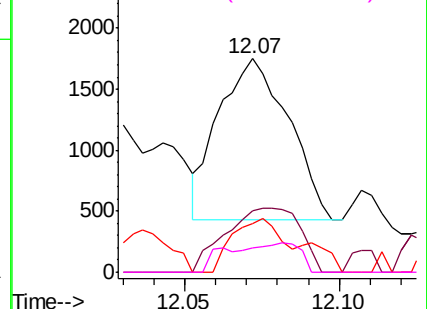
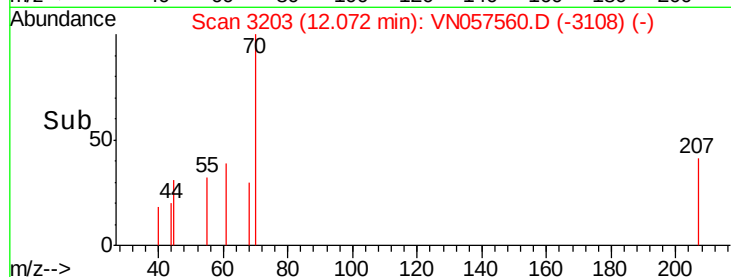


Abundance Ion 43.00 (42.70 to 43.70): VN0

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: Below Cal

RT: 12.52 min Scan# 3341

Delta R.T. 0.01 min

Lab File: VN057560.D

Acq: 29 Aug 2019 20:02

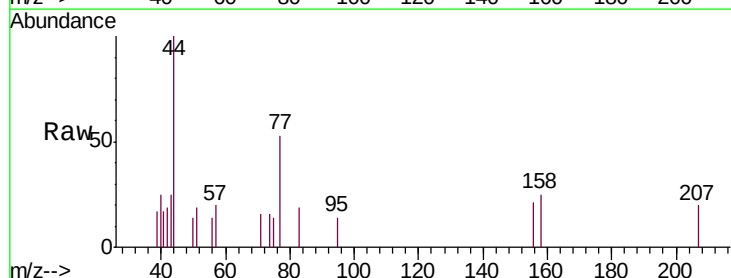
Tgt Ion: 83 Resp: 228

Ion Ratio Lower Upper

83 100

131 0.0 4.3 13.1#

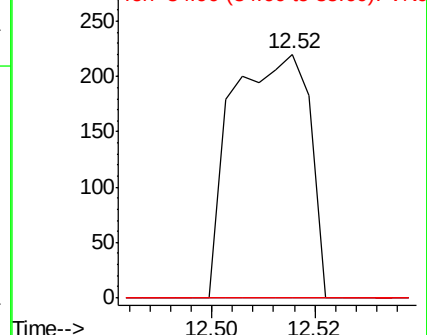
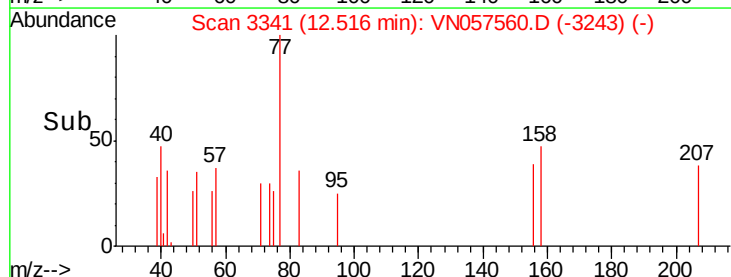
85 0.0 32.3 96.8#

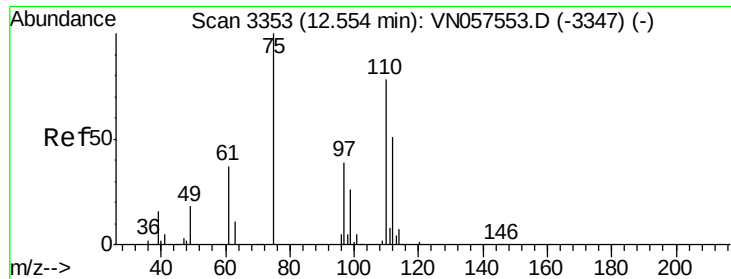


Abundance Ion 82.90 (82.60 to 83.60): VN0

Ion 130.80 (130.50 to 131.50): V

Ion 84.90 (84.60 to 85.60): VN0





#76

1,2,3-Trichloropropane

Concen: 41.853 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. -0.15 min

Lab File: VN057560.D

Acq: 29 Aug 2019 20:02

Instrument :

MSVOA\_N

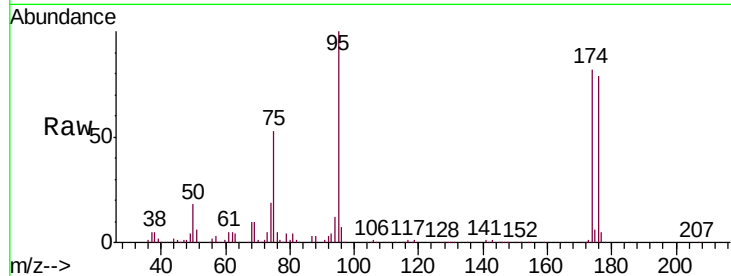
ClientSampleId :

Tot Ion: 75 Resp: 173593

Ion Ratio Lower Upper

75 100

77 1.0 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN057553.D (-3347) (-)

Ion 77.00 (76.70 to 77.70): VN057553.D (-3347) (-)

12.40

100000

80000

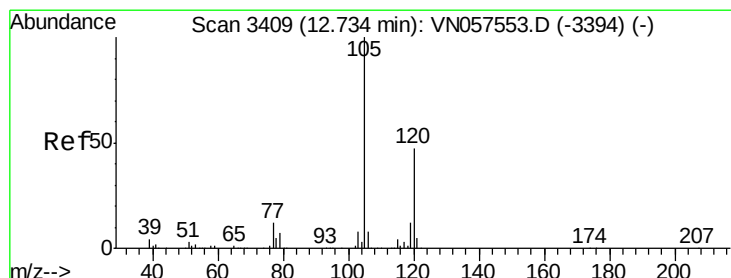
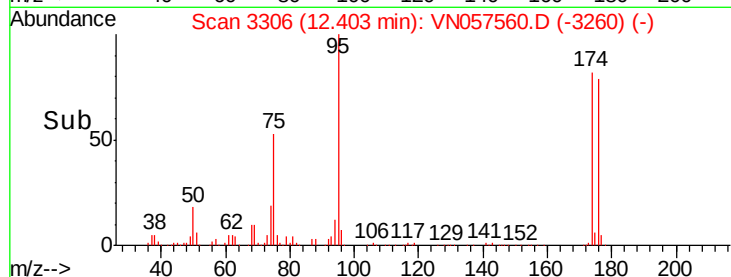
60000

40000

20000

0

Time--> 12.30 12.40 12.50



#80

1,3,5-Trimethylbenzene

Concen: 0.204 ug/l

RT: 12.74 min Scan# 3410

Delta R.T. 0.00 min

Lab File: VN057560.D

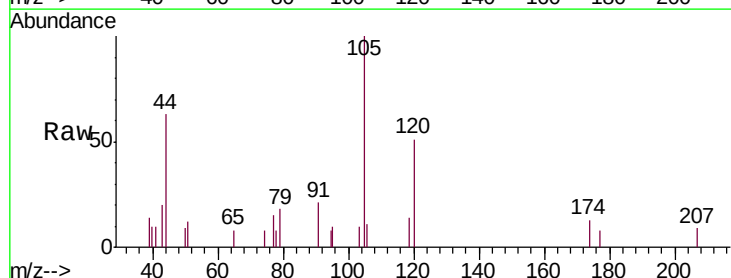
Acq: 29 Aug 2019 20:02

Tgt Ion: 105 Resp: 3799

Ion Ratio Lower Upper

105 100

120 41.7 23.3 69.8



Abundance Ion 105.00 (104.70 to 105.70): VN057553.D (-3394) (-)

Ion 120.00 (119.70 to 120.70): VN057553.D (-3394) (-)

12.74

2000

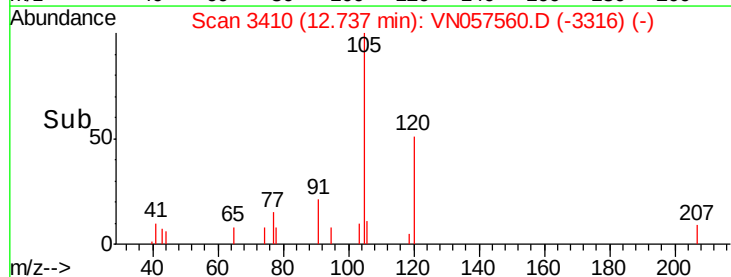
1500

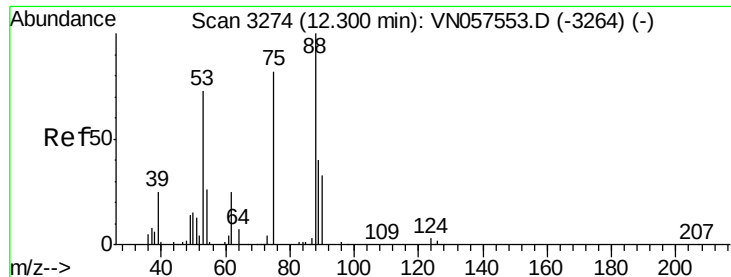
1000

500

0

Time--> 12.70 12.75 12.80

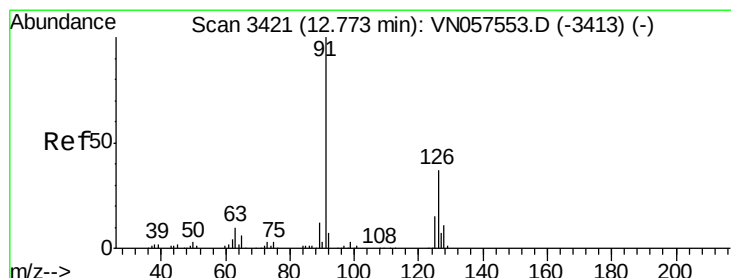
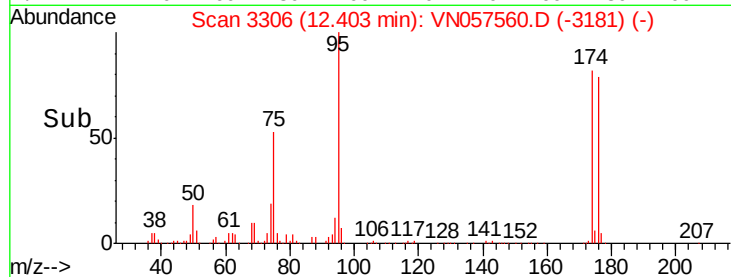
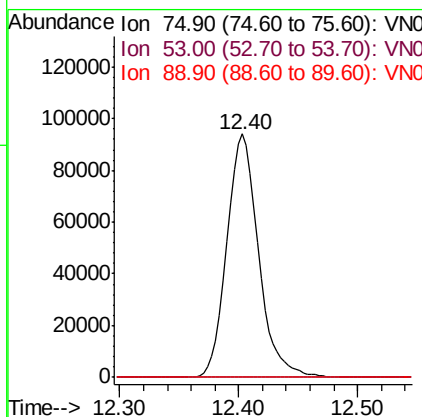
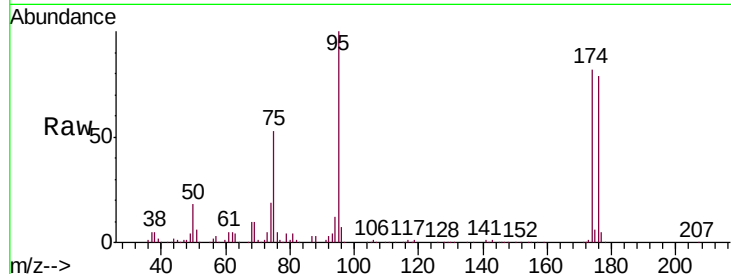




#81  
 trans-1,4-Dichloro-2-butene  
 Concen: 117.242 ug/l  
 RT: 12.40 min Scan# 3306  
 Delta R.T. 0.10 min  
 Lab File: VN057560.D  
 Acq: 29 Aug 2019 20:02

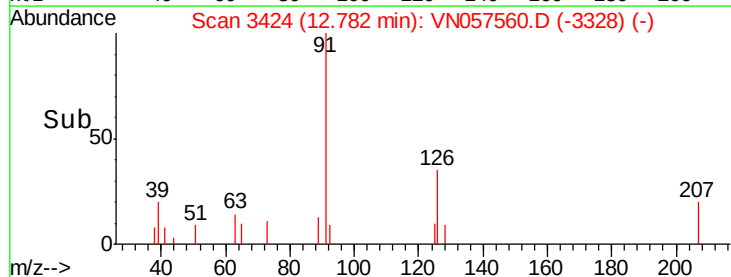
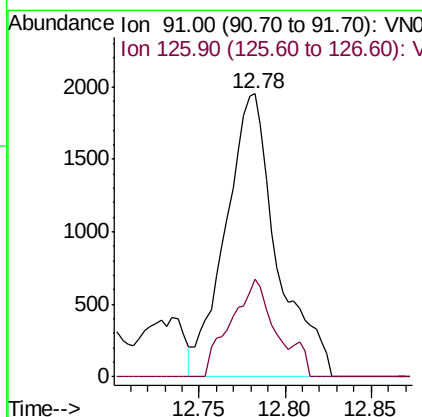
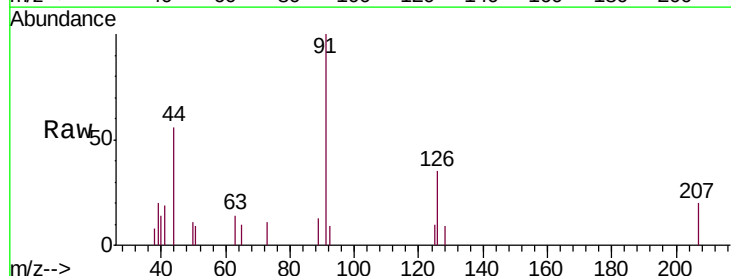
Instrument :  
 MSVOA\_N  
 ClientSampled :

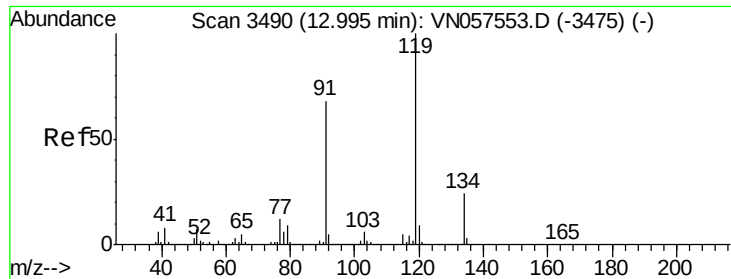
Tot Ion: 75 Resp: 173593  
 Ion Ratio Lower Upper  
 75 100  
 53 0.0 82.7 124.1#  
 89 0.0 35.8 53.8#



#82  
 4-Chlorotoluene  
 Concen: 0.298 ug/l  
 RT: 12.78 min Scan# 3424  
 Delta R.T. 0.01 min  
 Lab File: VN057560.D  
 Acq: 29 Aug 2019 20:02

Tgt Ion: 91 Resp: 4056  
 Ion Ratio Lower Upper  
 91 100  
 126 27.9 15.0 45.0

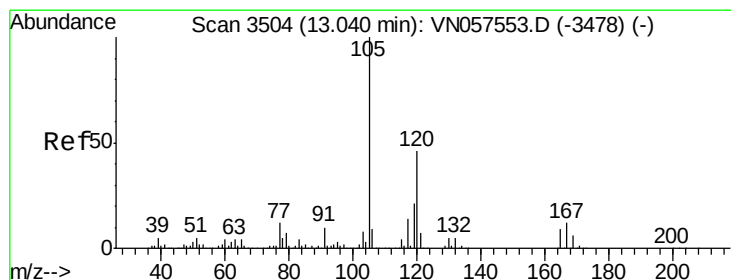
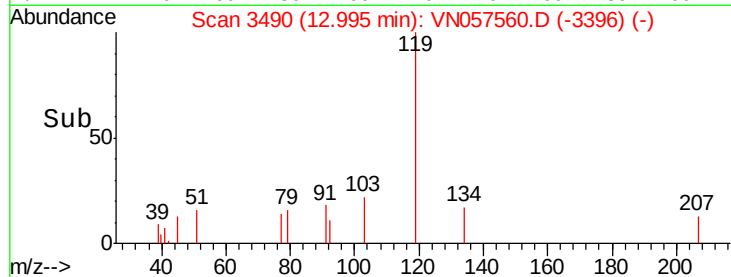
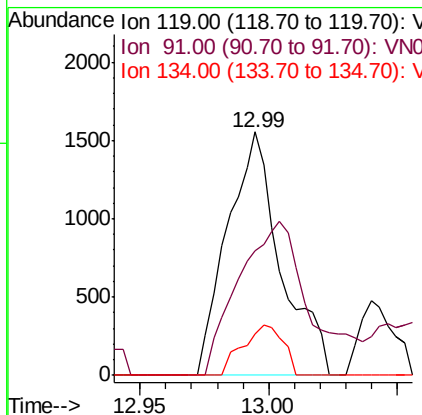
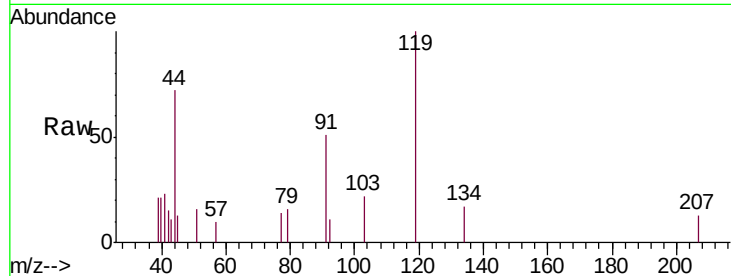




#83  
 tert-Butylbenzene  
 Concen: Below Cal  
 RT: 12.99 min Scan# 3490  
 Delta R.T. 0.00 min  
 Lab File: VN057560.D  
 Acq: 29 Aug 2019 20:02

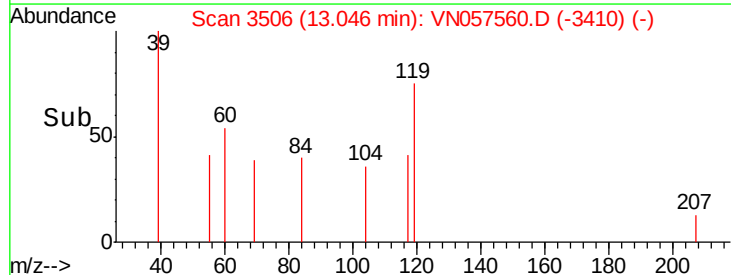
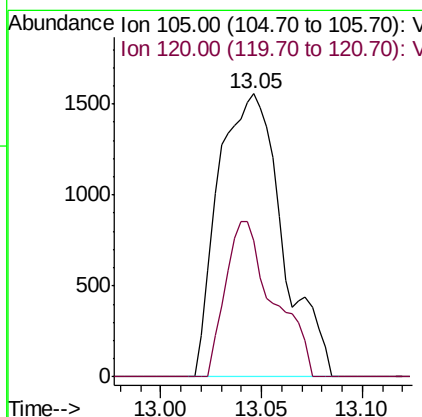
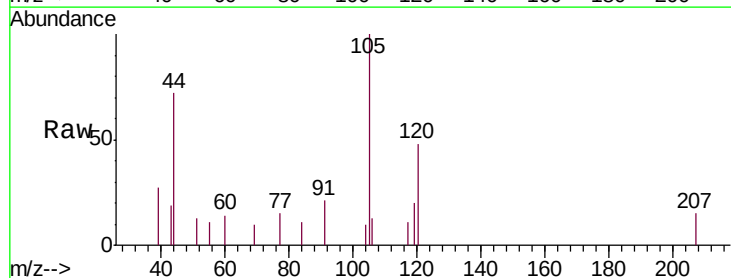
Instrument :  
 MSVOA\_N  
 ClientSampled :

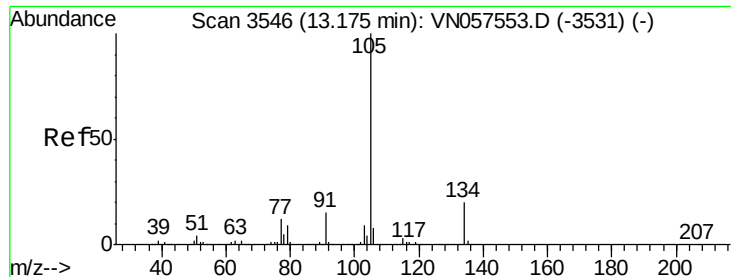
Tot Ion:119 Resp: 2241  
 Ion Ratio Lower Upper  
 119 100  
 91 85.3 37.0 111.0  
 134 15.6 12.2 36.6



#84  
 1,2,4-Trimethylbenzene  
 Concen: 0.202 ug/l  
 RT: 13.05 min Scan# 3506  
 Delta R.T. 0.01 min  
 Lab File: VN057560.D  
 Acq: 29 Aug 2019 20:02

Tgt Ion:105 Resp: 3440  
 Ion Ratio Lower Upper  
 105 100  
 120 41.4 21.9 65.7





#85

sec-Butylbenzene

Concen: 0.240 ug/l

RT: 13.18 min Scan# 3547

Delta R.T. 0.00 min

Lab File: VN057560.D

Acq: 29 Aug 2019 20:02

Instrument :

MSVOA\_N

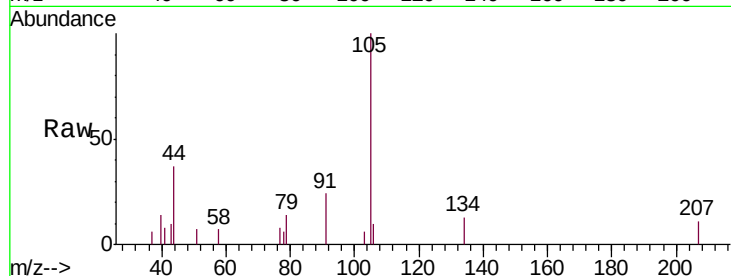
ClientSampled :

Tot Ion:105 Resp: 4920

Ion Ratio Lower Upper

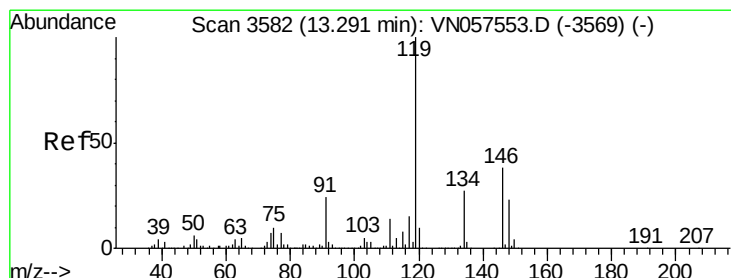
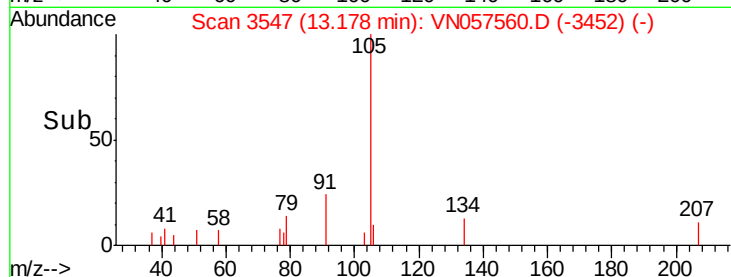
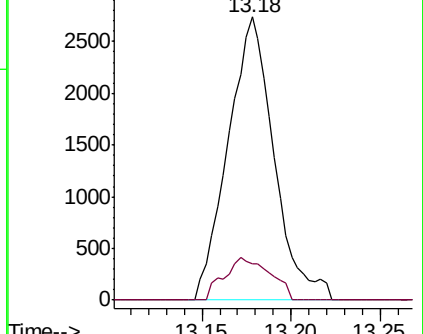
105 100

134 14.9 9.3 27.9



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V



#86

p-Isopropyltoluene

Concen: 0.222 ug/l

RT: 13.29 min Scan# 3582

Delta R.T. 0.00 min

Lab File: VN057560.D

Acq: 29 Aug 2019 20:02

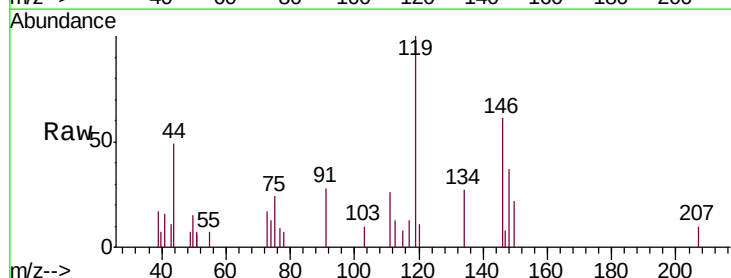
Tgt Ion:119 Resp: 3915

Ion Ratio Lower Upper

119 100

134 24.0 12.7 38.1

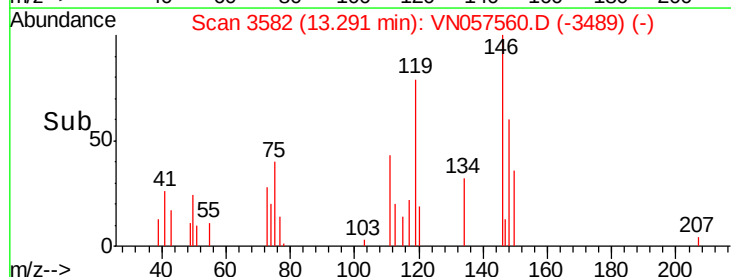
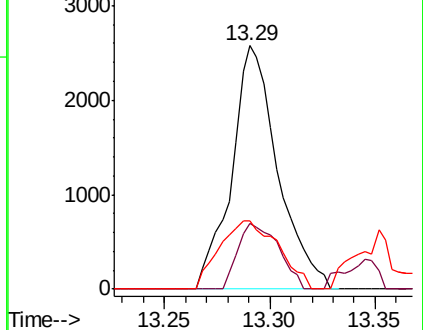
91 35.8 13.9 41.6

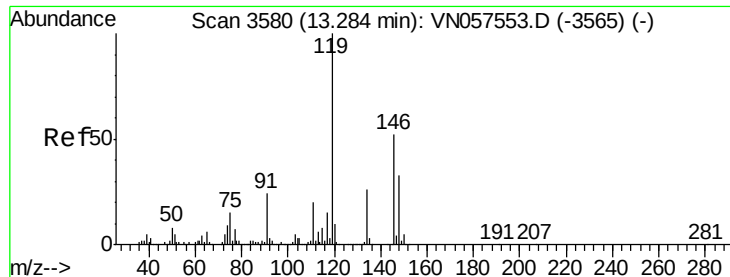


Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): V





#87

1,3-Dichlorobenzene

Concen: 0.461 ug/l

RT: 13.28 min Scan# 3580

Delta R.T. -0.00 min

Lab File: VN057560.D

Acq: 29 Aug 2019 20:02

Instrument :

MSVOA\_N

ClientSampled :

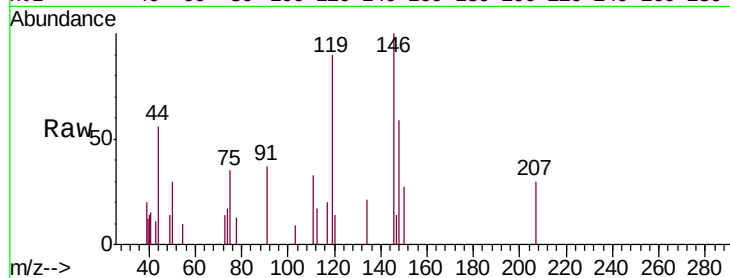
Tot Ion:146 Resp: 3680

Ion Ratio Lower Upper

146 100

111 29.9 22.1 66.1

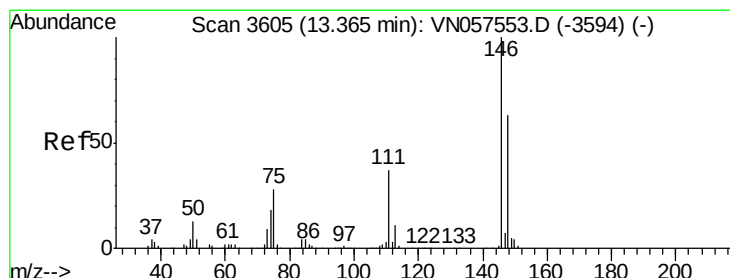
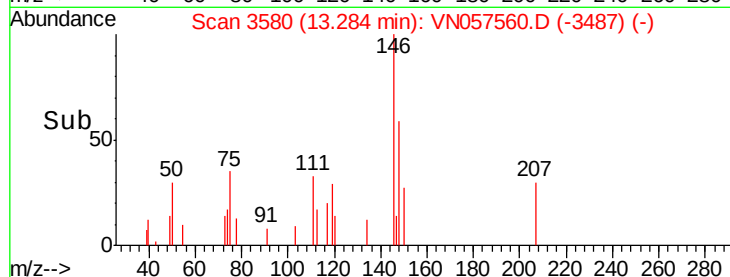
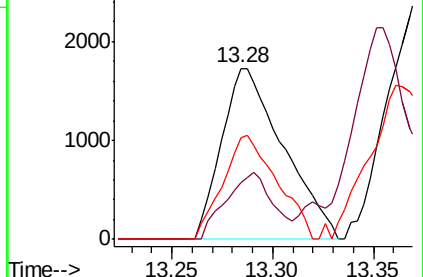
148 53.4 31.9 95.9



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: 0.481 ug/l

RT: 13.28 min Scan# 3580

Delta R.T. -0.08 min

Lab File: VN057560.D

Acq: 29 Aug 2019 20:02

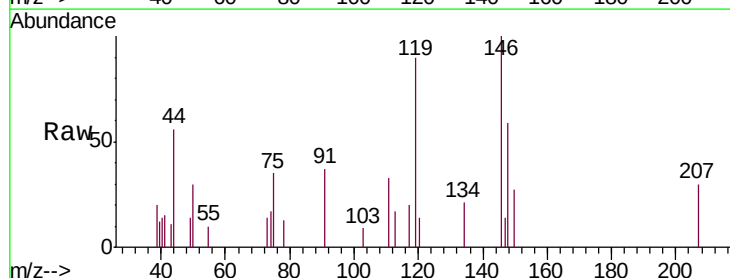
Tgt Ion:146 Resp: 3680

Ion Ratio Lower Upper

146 100

111 29.9 21.9 65.5

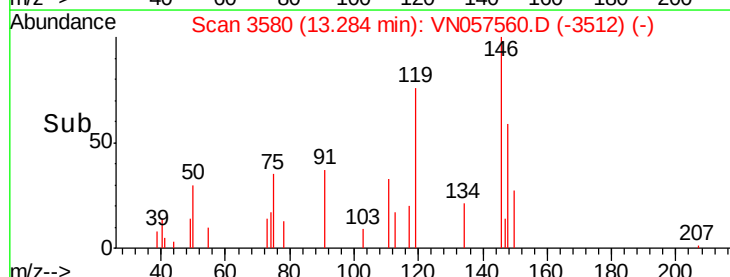
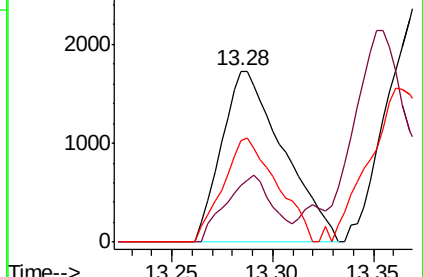
148 53.4 31.1 93.2

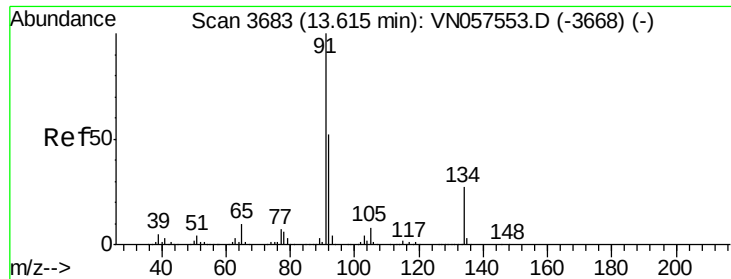


Abundance Ion 145.90 (145.60 to 146.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V





#89

n-Butylbenzene

Concen: 0.404 ug/l

RT: 13.62 min Scan# 3684

Delta R.T. 0.00 min

Lab File: VN057560.D

Acq: 29 Aug 2019 20:02

Instrument :

MSVOA\_N

ClientSampleId :

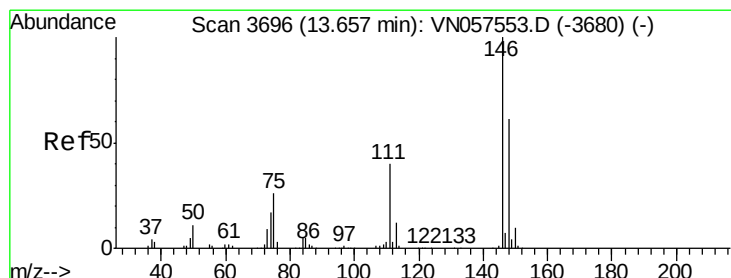
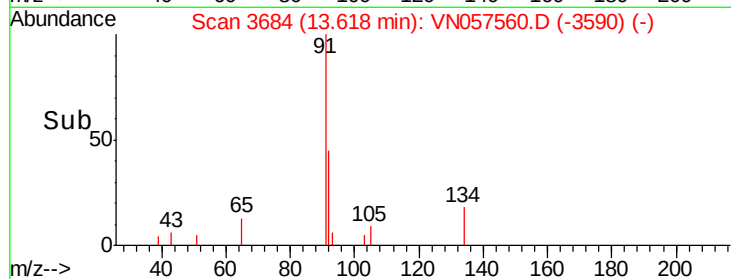
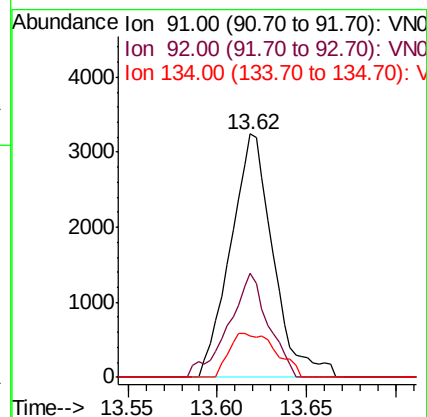
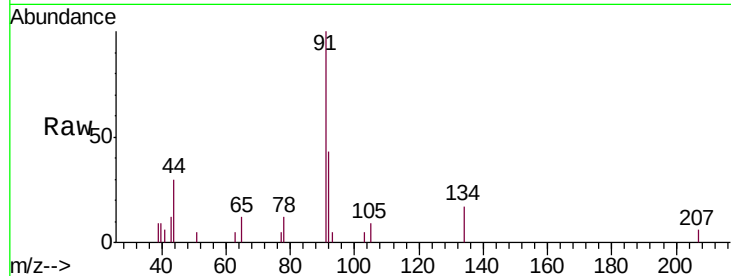
Tot Ion: 91 Resp: 5384

Ion Ratio Lower Upper

91 100

92 39.6 25.7 77.0

134 19.9 11.4 34.1



#91

1,2-Dichlorobenzene

Concen: 0.493 ug/l

RT: 13.66 min Scan# 3698

Delta R.T. 0.01 min

Lab File: VN057560.D

Acq: 29 Aug 2019 20:02

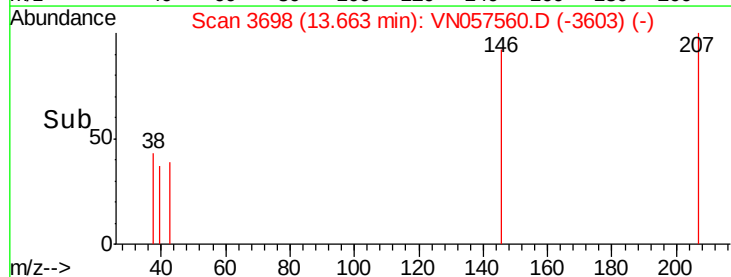
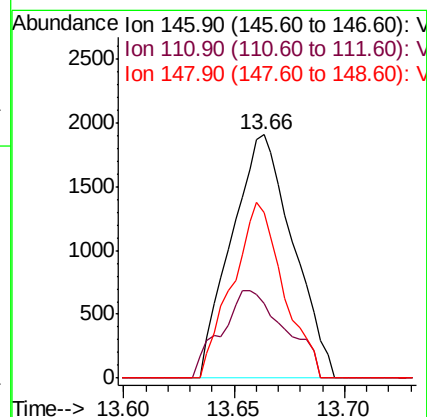
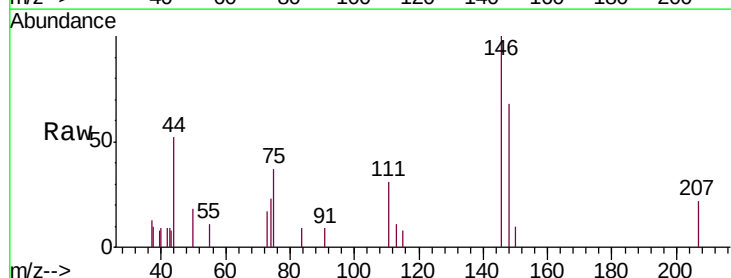
Tgt Ion: 146 Resp: 3670

Ion Ratio Lower Upper

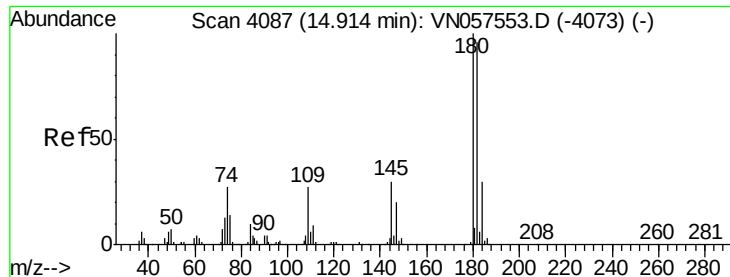
146 100

111 37.8 23.1 69.2

148 60.1 31.8 95.4



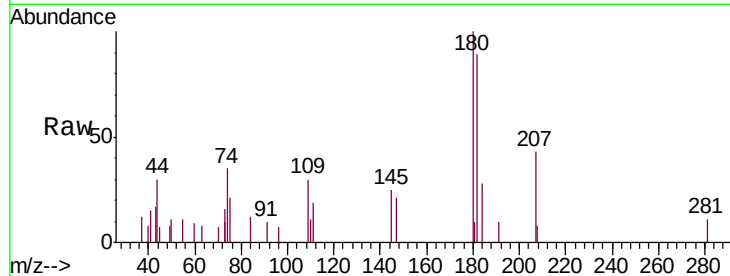




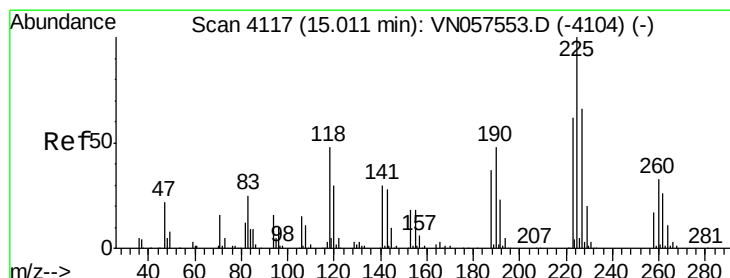
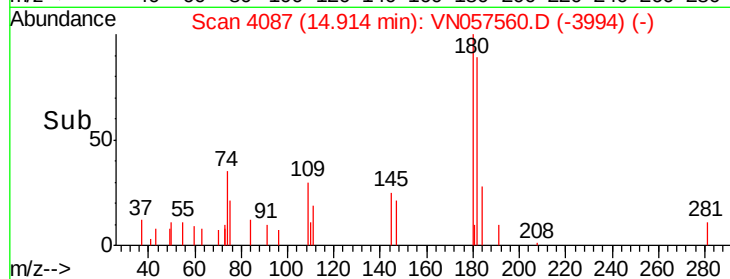
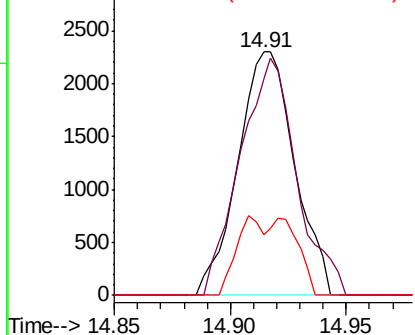
#93  
 1,2,4-Trichlorobenzene  
 Concen: 4.954 ug/l  
 RT: 14.91 min Scan# 4087  
 Delta R.T. 0.00 min  
 Lab File: VN057560.D  
 Acq: 29 Aug 2019 20:02

Instrument :  
 MSVOA\_N  
 ClientSampled :

Tot Ion:180 Resp: 3911  
 Ion Ratio Lower Upper  
 180 100  
 182 97.3 46.7 140.1  
 145 15.4 15.6 46.8#

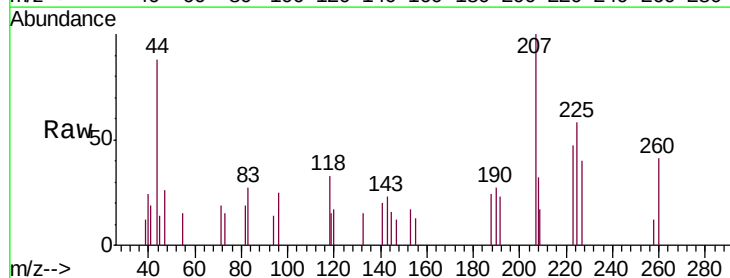


Abundance Ion 179.80 (179.50 to 180.50): V  
 Ion 181.80 (181.50 to 182.50): V  
 Ion 144.80 (144.50 to 145.50): V

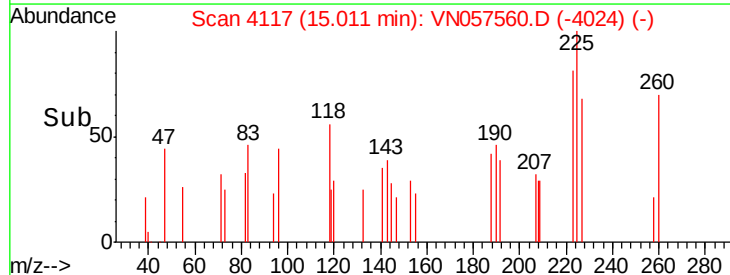
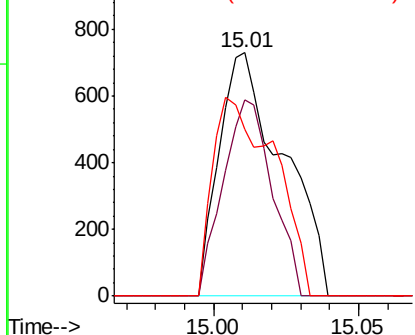


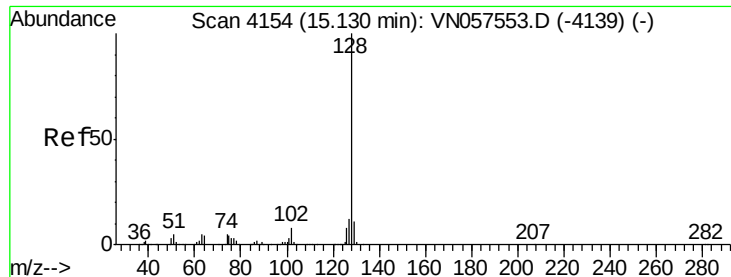
#94  
 Hexachlorobutadiene  
 Concen: 0.454 ug/l  
 RT: 15.01 min Scan# 4117  
 Delta R.T. -0.00 min  
 Lab File: VN057560.D  
 Acq: 29 Aug 2019 20:02

Tgt Ion:225 Resp: 1115  
 Ion Ratio Lower Upper  
 225 100  
 223 62.0 32.0 96.2  
 227 79.6 31.5 94.5



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: 1.334 ug/l

RT: 15.13 min Scan# 4153

Delta R.T. -0.00 min

Lab File: VN057560.D

Acq: 29 Aug 2019 20:02

Instrument :

MSVOA\_N

ClientSampleId :

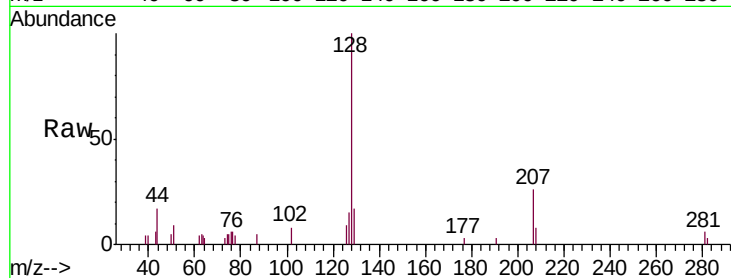
Tot Ion:128 Resp: 9824

Ion Ratio Lower Upper

128 100

127 12.3 10.5 15.7

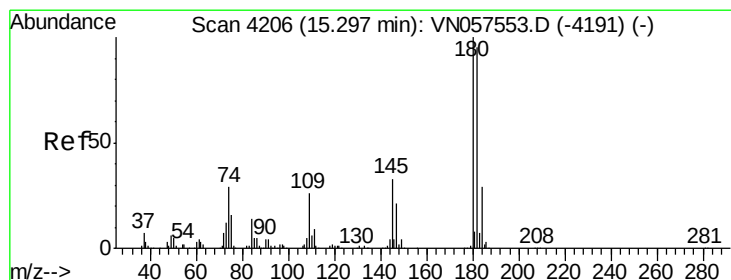
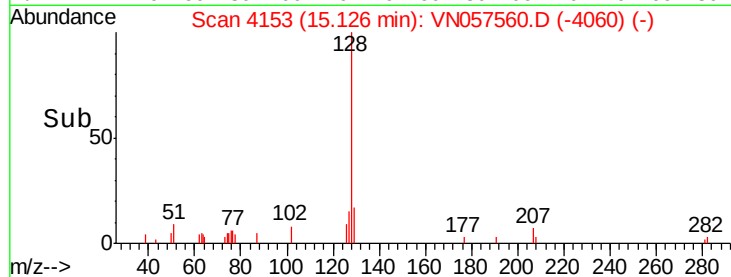
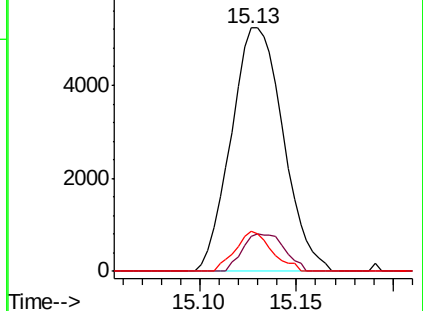
129 11.4 8.6 13.0



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: 1.752 ug/l

RT: 15.30 min Scan# 4206

Delta R.T. 0.00 min

Lab File: VN057560.D

Acq: 29 Aug 2019 20:02

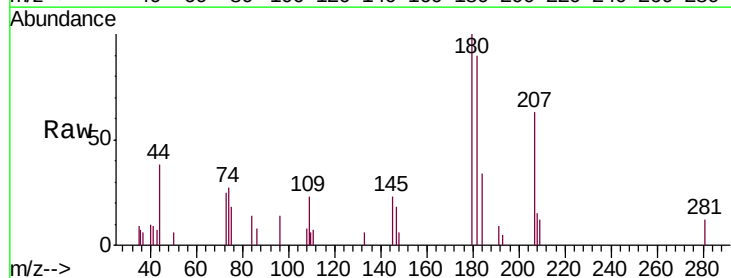
Tgt Ion:180 Resp: 4409

Ion Ratio Lower Upper

180 100

182 101.1 46.7 140.1

145 29.4 16.8 50.3



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

