

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN062619\  
 Data File : VN056506.D  
 Acq On : 26 Jun 2019 15:11  
 Operator : JC/SP  
 Sample : K3532-08  
 Misc : 5.00mL/MSVOA N/WATER  
 ALS Vial : 13 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :

Quant Time: Jun 27 07:39:42 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N061919W.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Jun 21 03:45:40 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.66  | 168  | 342267   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.59  | 114  | 590753   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.41 | 117  | 586045   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.34 | 152  | 163440   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units   | Dev(Min) |
|-----------------------------|-------|------|----------|-------|---------|----------|
| 33) 1,2-Dichloroethane-d4   | 8.03  | 65   | 201042   | 53.00 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 106.00% |          |
| 35) Dibromofluoromethane    | 7.59  | 113  | 174492   | 47.35 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 94.70%  |          |
| 50) Toluene-d8              | 10.09 | 98   | 740650   | 51.65 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 103.30% |          |
| 62) 4-Bromofluorobenzene    | 12.40 | 95   | 235621   | 49.29 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 98.58%  |          |

| Target Compounds               | R.T.  | QIon | Response | Conc      | Units  | Qvalue |
|--------------------------------|-------|------|----------|-----------|--------|--------|
| 13) Acrolein                   | 3.61  | 56   | 134      | 0.249     | ug/l # | 14     |
| 16) Acetone                    | 3.82  | 43   | 10397    | 5.471     | ug/l   | 96     |
| 18) Methyl Acetate             | 4.33  | 43   | 8189     | 1.356     | ug/l # | 70     |
| 20) Methylene Chloride         | 4.55  | 84   | 4638     | 0.412     | ug/l   | 96     |
| 25) 2-Butanone                 | 6.86  | 43   | 1309     | 0.520     | ug/l # | 49     |
| 29) Tetrahydrofuran            | 7.22  | 42   | 1664     | 1.083     | ug/l # | 74     |
| 31) Cyclohexane                | 7.67  | 56   | 5780     | 0.987     | ug/l # | 1      |
| 36) 1,1-Dichloropropene        | 7.66  | 75   | 22550    | 4.337     | ug/l # | 49     |
| 38) Carbon Tetrachloride       | 7.66  | 117  | 30400    | 6.686     | ug/l # | 15     |
| 41) Methacrylonitrile          | 7.22  | 41   | 1066     | 0.472     | ug/l # | 21     |
| 43) Isopropyl Acetate          | 8.17  | 43   | 14960    | 1.899     | ug/l # | 91     |
| 45) 1,2-Dichloropropane        | 9.27  | 63   | 1797     | 0.420     | ug/l # | 43     |
| 48) Methyl methacrylate        | 9.18  | 41   | 8740     | 2.213     | ug/l # | 12     |
| 49) 1,4-Dioxane                | 9.27  | 88   | 242      | 2.953     | ug/l # | 1      |
| 51) 4-Methyl-2-Pentanone       | 9.99  | 43   | 6355     | 1.250     | ug/l   | 88     |
| 53) t-1,3-Dichloropropene      | 10.37 | 75   | 62       | 2.902     | ug/l # | 43     |
| 54) cis-1,3-Dichloropropene    | 9.90  | 75   | 64535    | 11.291    | ug/l # | 61     |
| 57) 1,3-Dichloropropane        | 10.76 | 76   | 12144    | 1.839     | ug/l # | 42     |
| 59) 2-Hexanone                 | 10.76 | 43   | 174110   | 46.581    | ug/l # | 51     |
| 60) Dibromochloromethane       | 10.62 | 129  | 162      | 2.420     | ug/l # | 10     |
| 71) Bromoform                  | 12.40 | 173  | 1697     | 3.638     | ug/l # | 1      |
| 73) Isopropylbenzene           | 12.25 | 105  | 1118     | Below Cal |        | 79     |
| 76) 1,2,3-Trichloropropane     | 12.40 | 75   | 106296   | 31.365    | ug/l # | 100    |
| 79) 2-Chlorotoluene            | 12.67 | 91   | 1054     | Below Cal |        | 72     |
| 80) 1,3,5-Trimethylbenzene     | 12.74 | 105  | 2074     | Below Cal |        | 95     |
| 81) trans-1,4-Dichloro-2-buten | 12.40 | 75   | 106296   | 111.477   | ug/l # | 8      |
| 83) tert-Butylbenzene          | 12.99 | 119  | 1084     | Below Cal | #      | 84     |
| 88) 1,4-Dichlorobenzene        | 13.36 | 146  | 1353     | 0.252     | ug/l # | 1      |
| 89) n-Butylbenzene             | 13.61 | 91   | 2368     | 0.277     | ug/l   | 93     |
| 93) 1,2,4-Trichlorobenzene     | 14.91 | 180  | 1141     | 5.968     | ug/l   | 89     |
| 94) Hexachlorobutadiene        | 15.01 | 225  | 524      | Below Cal |        | 80     |
| 95) Naphthalene                | 15.14 | 128  | 3685     | 5.686     | ug/l # | 94     |
| 96) 1,2,3-Trichlorobenzene     | 15.31 | 180  | 1458     | 4.929     | ug/l   | 71     |

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MSVOA\_N  
ClientSampleId :

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Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N061919W.M  
Quant Title : SW846 8260  
QLast Update : Fri Jun 21 03:45:40 2019  
Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|--------------------|------|------|----------|------|-------|----------|
|--------------------|------|------|----------|------|-------|----------|

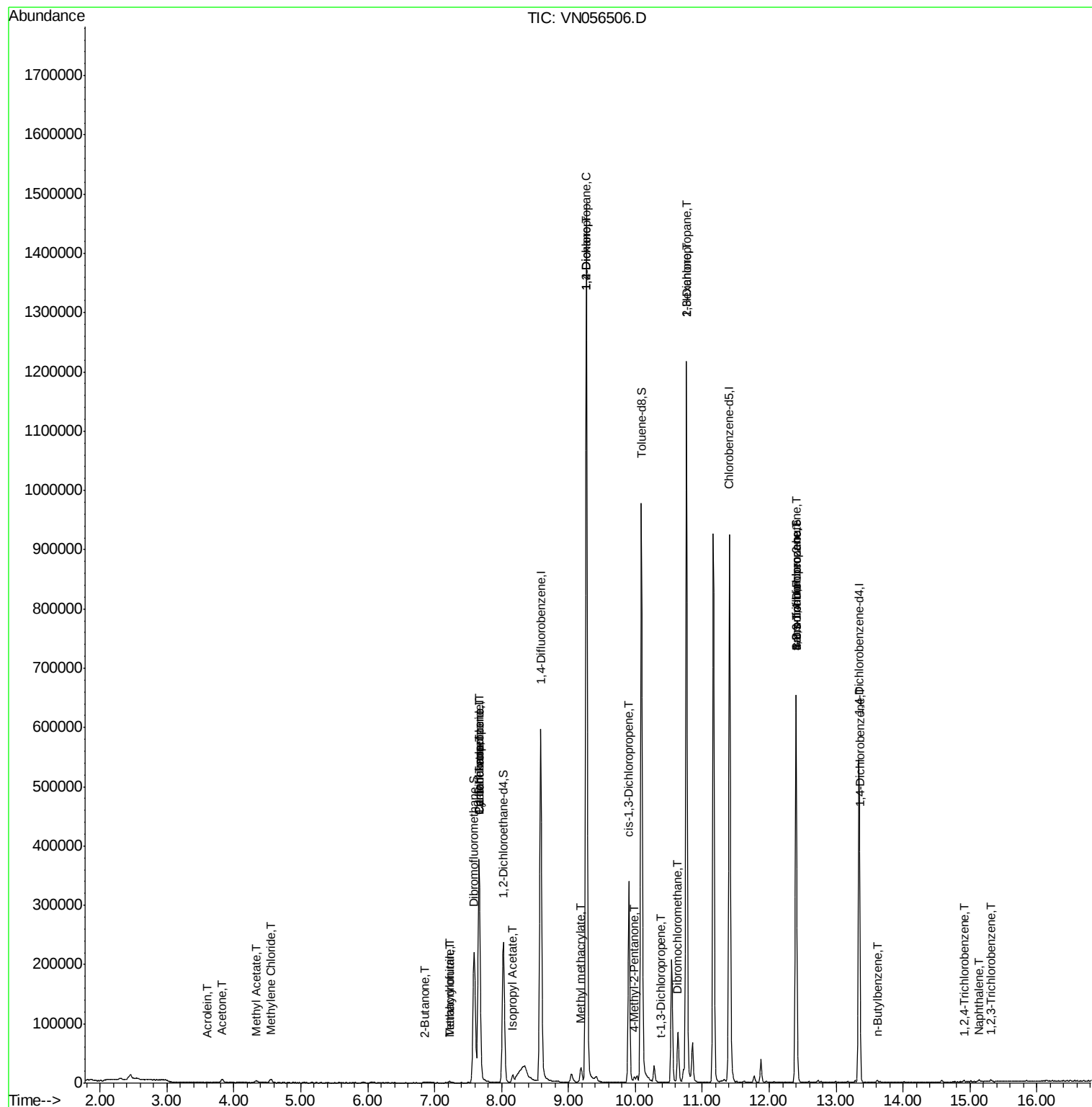
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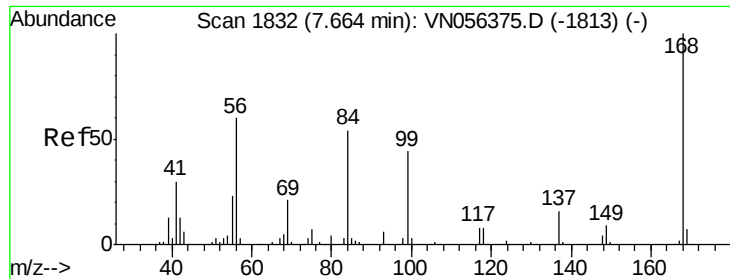
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA N\DATA\VN062619\  
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Quant Title : SW846 8260  
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Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. 0.00 min

Lab File: VN056506.D

Acq: 26 Jun 2019 15:11

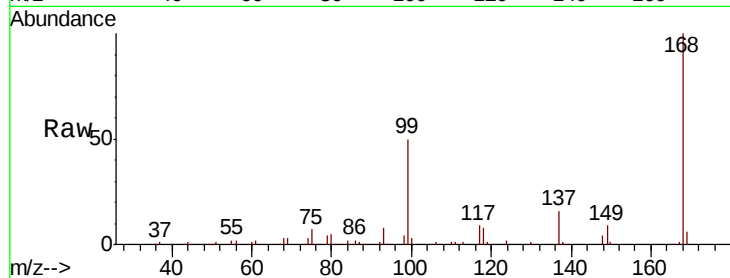
Instrument :  
MSVOA\_N  
ClientSampled :

Tot Ion:168 Resp: 342267

Ion Ratio Lower Upper

168 100

99 50.3 40.6 61.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.66

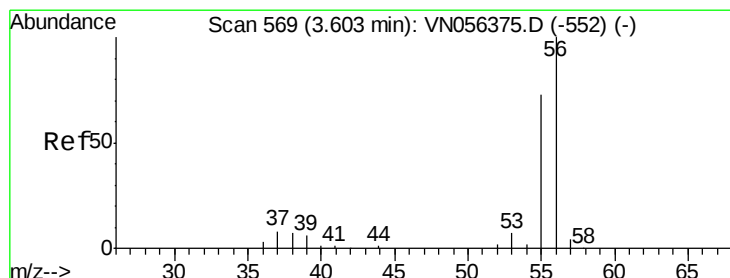
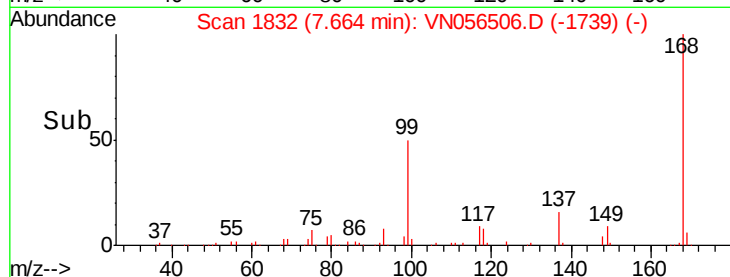
150000

100000

50000

0

Time-->



#13

Acrolein

Concen: 0.249 ug/l

RT: 3.61 min Scan# 572

Delta R.T. 0.01 min

Lab File: VN056506.D

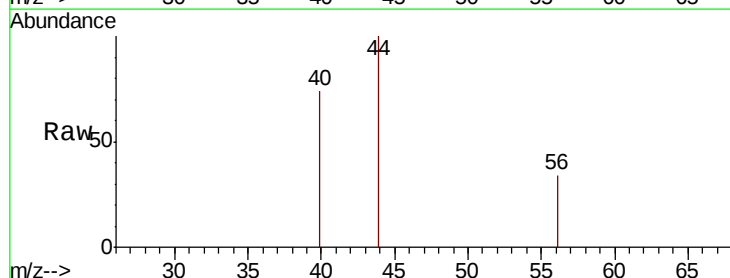
Acq: 26 Jun 2019 15:11

Tgt Ion: 56 Resp: 134

Ion Ratio Lower Upper

56 100

55 0.0 57.1 85.7#



Abundance Ion 56.00 (55.70 to 56.70): VNO

Ion 55.00 (54.70 to 55.70): VNO

3.61

200

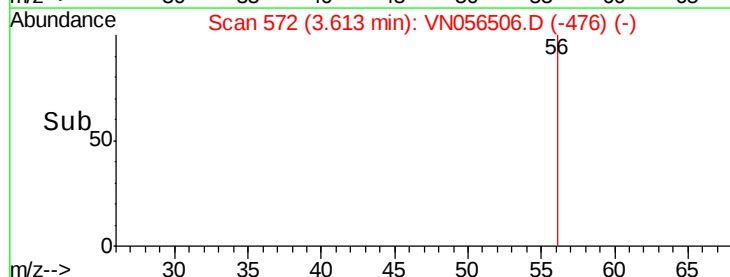
150

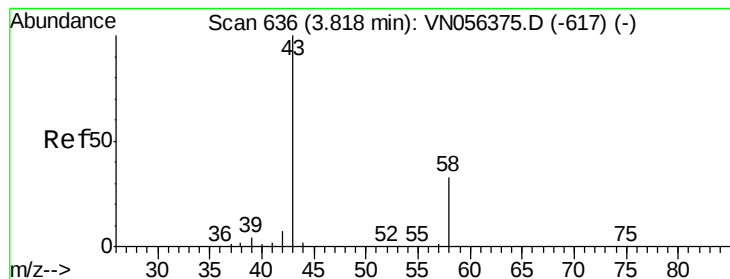
100

50

0

Time-->





#16

Acetone

Concen: 5.471 ug/l

RT: 3.82 min Scan# 637

Delta R.T. 0.00 min

Lab File: VN056506.D

Acq: 26 Jun 2019 15:11

Instrument :

MSVOA\_N

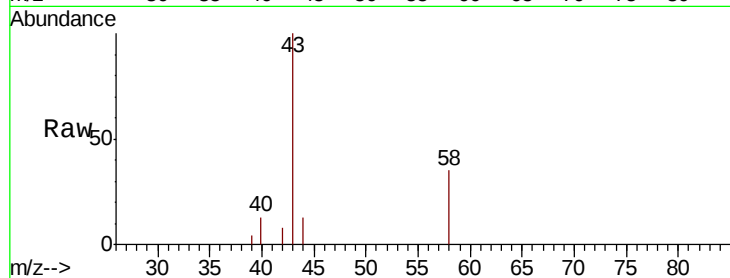
ClientSampled :

Tot Ion: 43 Resp: 10397

Ion Ratio Lower Upper

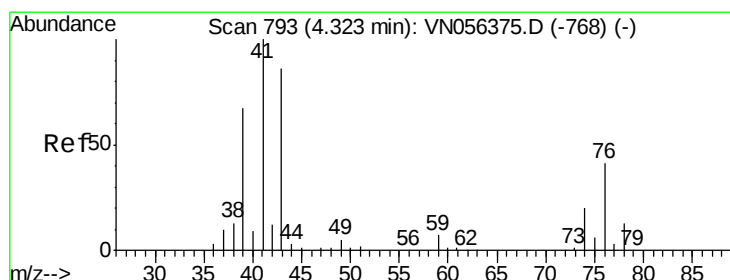
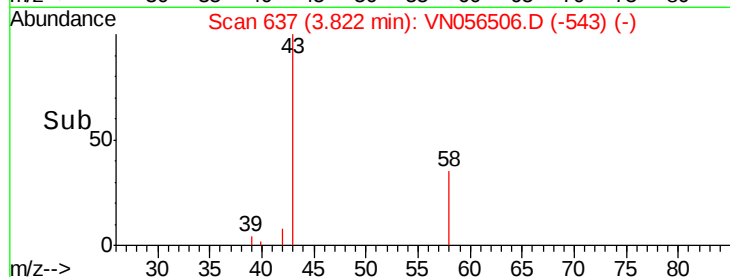
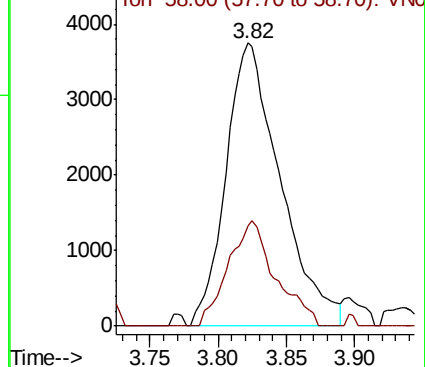
43 100

58 35.5 26.4 39.6



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#18

Methyl Acetate

Concen: 1.356 ug/l

RT: 4.33 min Scan# 795

Delta R.T. 0.01 min

Lab File: VN056506.D

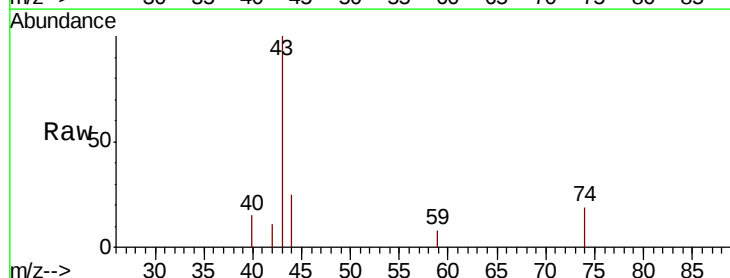
Acq: 26 Jun 2019 15:11

Tgt Ion: 43 Resp: 8189

Ion Ratio Lower Upper

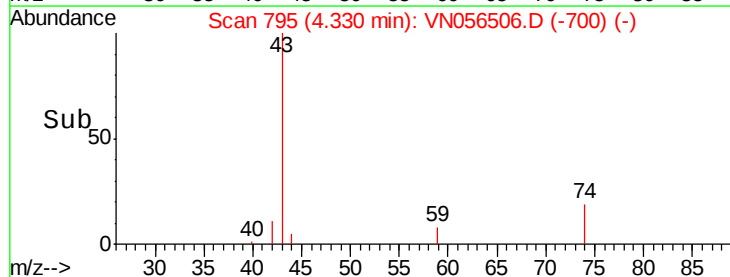
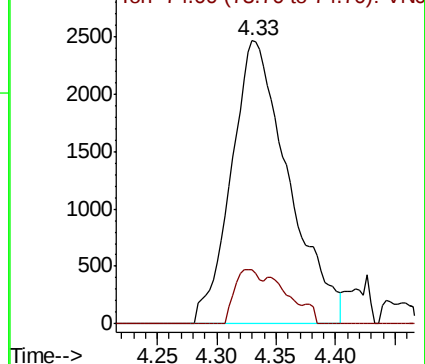
43 100

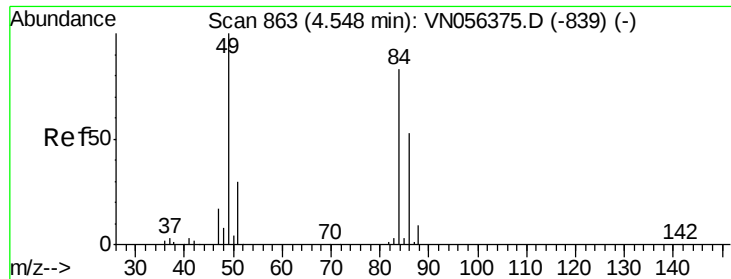
74 9.0 19.2 28.8#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 74.00 (73.70 to 74.70): VN0

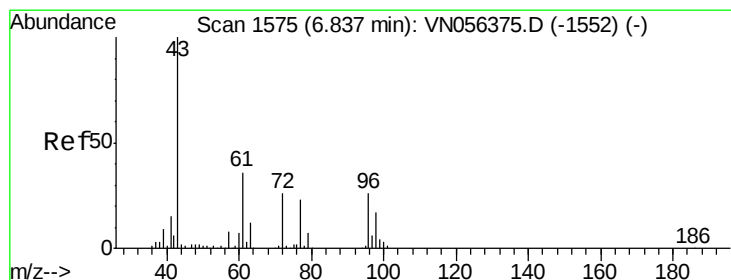
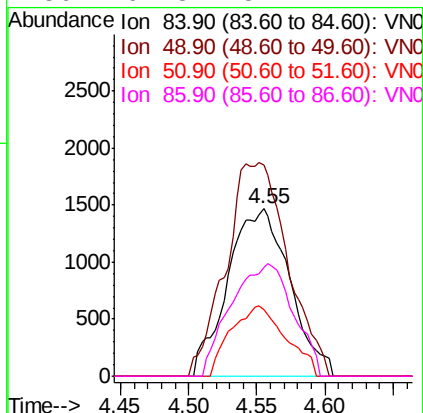
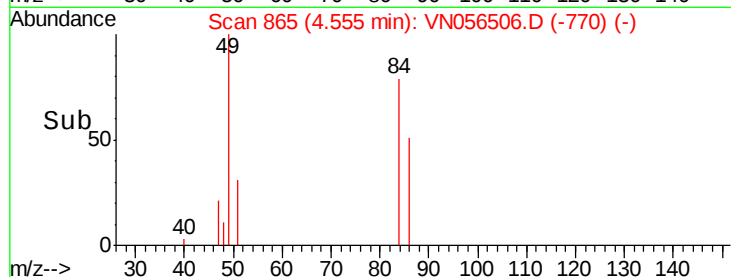
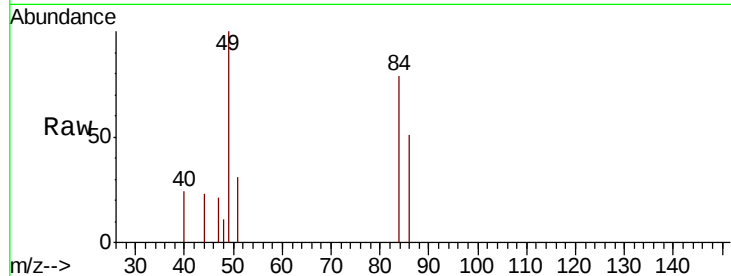




#20  
Methylene Chloride  
Concen: 0.412 ug/l  
RT: 4.55 min Scan# 865  
Delta R.T. 0.01 min  
Lab File: VN056506.D  
Acq: 26 Jun 2019 15:11

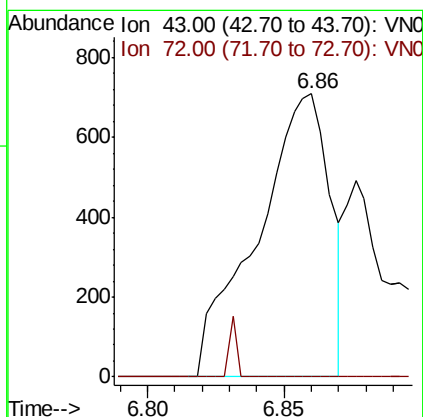
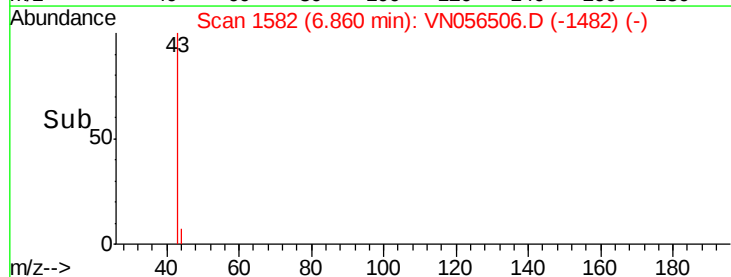
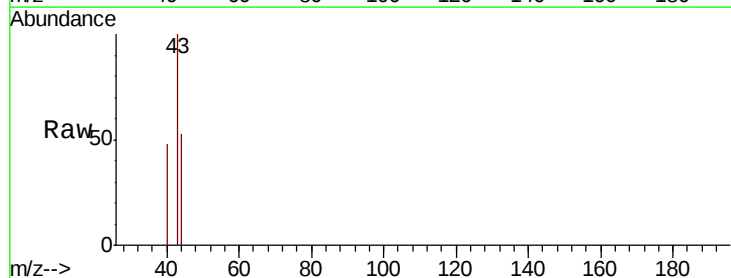
Instrument :  
MSVOA\_N  
ClientSampled :

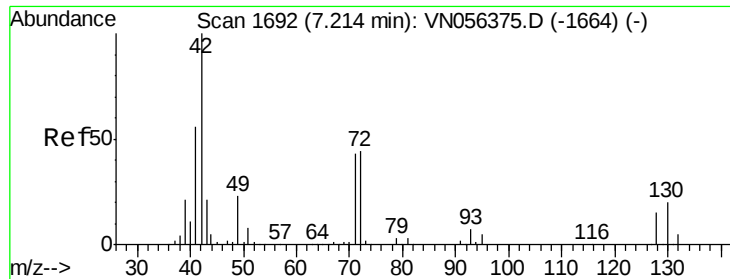
Tot Ion: 84 Resp: 4638  
Ion Ratio Lower Upper  
84 100  
49 126.6 96.4 144.6  
51 39.5 28.6 43.0  
86 64.8 51.4 77.2



#25  
2-Butanone  
Concen: 0.520 ug/l  
RT: 6.86 min Scan# 1582  
Delta R.T. 0.02 min  
Lab File: VN056506.D  
Acq: 26 Jun 2019 15:11

Tgt Ion: 43 Resp: 1309  
Ion Ratio Lower Upper  
43 100  
72 0.0 20.6 31.0#





#29

Tetrahydrofuran

Concen: 1.083 ug/l

RT: 7.22 min Scan# 1695

Delta R.T. 0.01 min

Lab File: VN056506.D

Acq: 26 Jun 2019 15:11

Instrument :

MSVOA\_N

ClientSampleId :

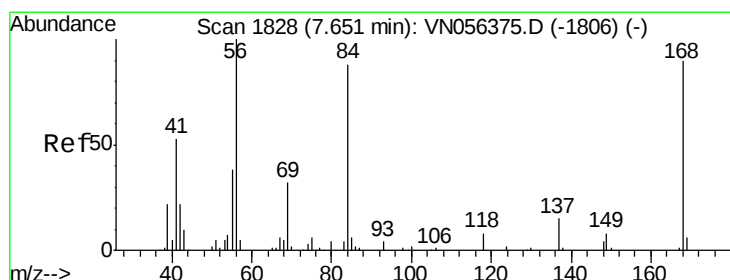
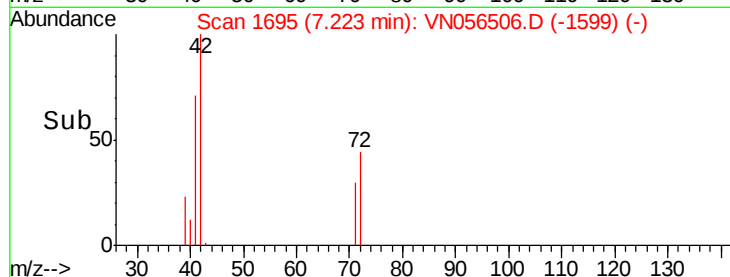
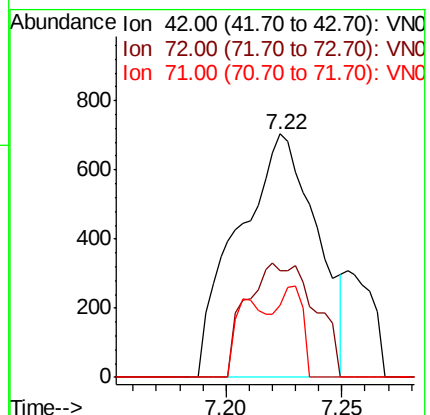
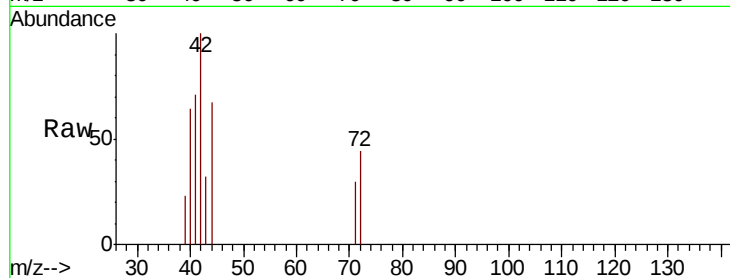
Tot Ion: 42 Resp: 1664

Ion Ratio Lower Upper

42 100

72 40.4 34.7 52.1

71 10.9 33.0 49.6#



#31

Cyclohexane

Concen: 0.987 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. 0.02 min

Lab File: VN056506.D

Acq: 26 Jun 2019 15:11

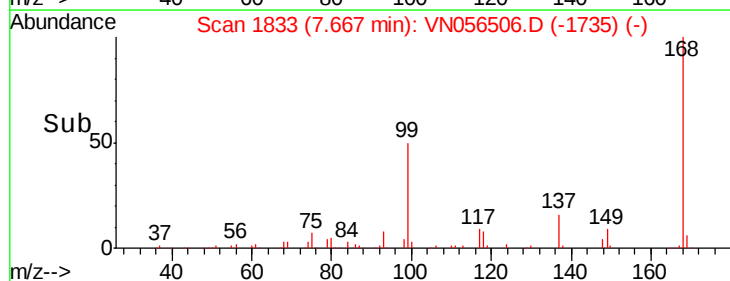
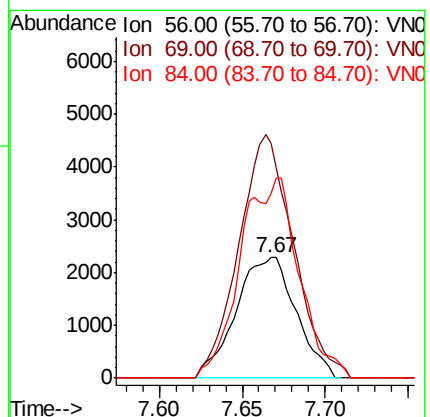
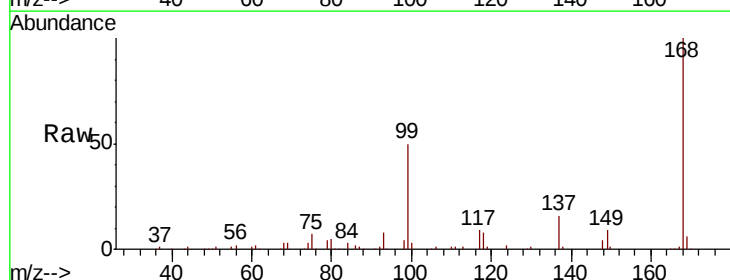
Tgt Ion: 56 Resp: 5780

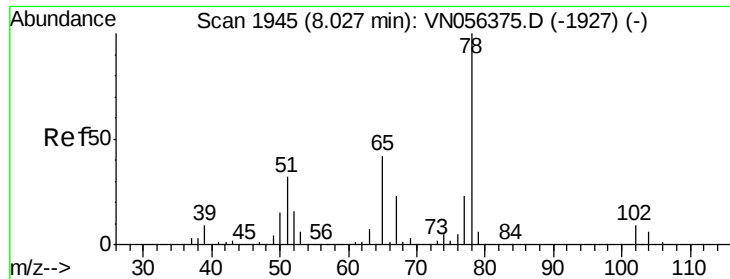
Ion Ratio Lower Upper

56 100

69 194.7 25.8 38.6#

84 153.1 69.4 104.0#

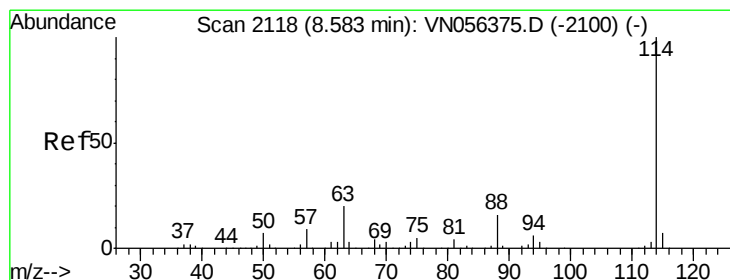
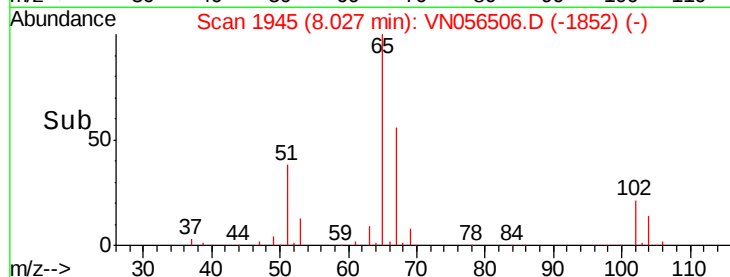
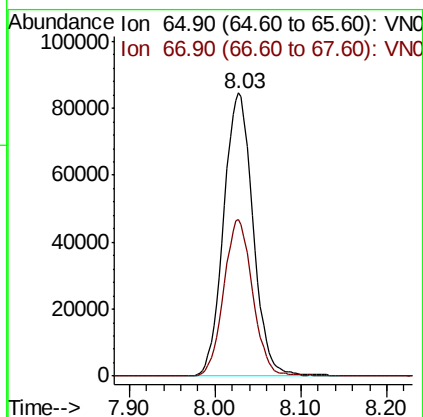
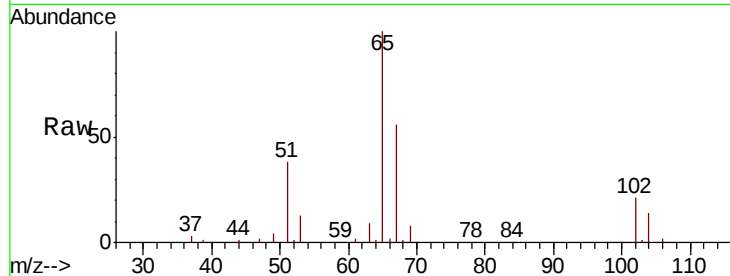




#33  
 1,2-Dichloroethane-d4  
 Concen: 52.998 ug/l  
 RT: 8.03 min Scan# 1945  
 Delta R.T. 0.00 min  
 Lab File: VN056506.D  
 Acq: 26 Jun 2019 15:11

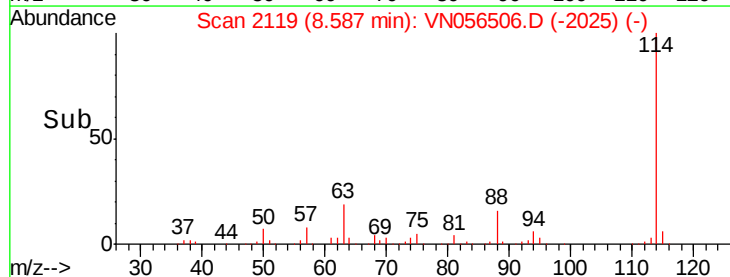
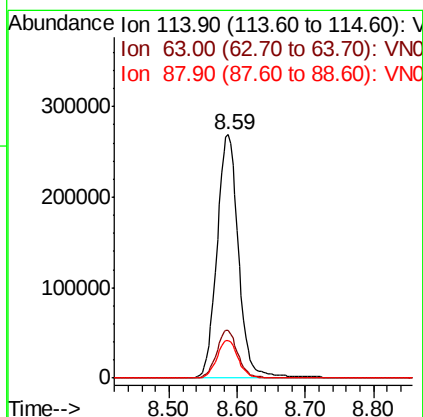
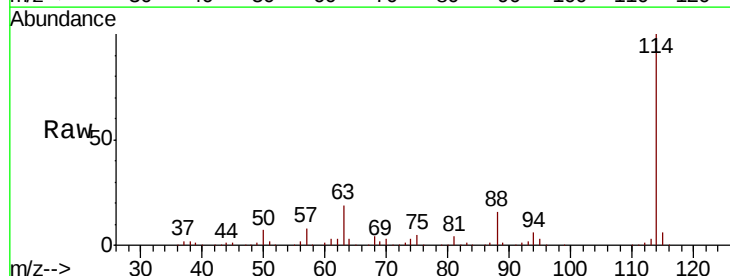
Instrument :  
 MSVOA\_N  
 ClientSampleId :

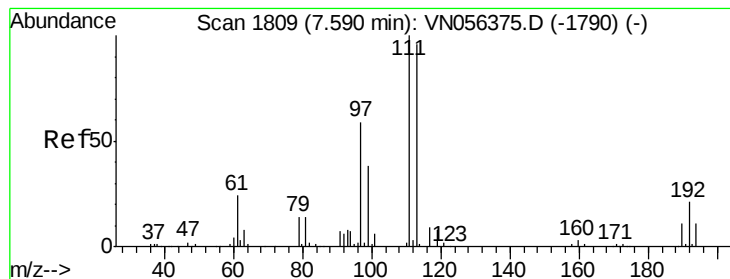
Tot Ion: 65 Resp: 201042  
 Ion Ratio Lower Upper  
 65 100  
 67 54.2 0.0 109.0



#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.59 min Scan# 2119  
 Delta R.T. 0.00 min  
 Lab File: VN056506.D  
 Acq: 26 Jun 2019 15:11

Tgt Ion: 114 Resp: 590753  
 Ion Ratio Lower Upper  
 114 100  
 63 19.5 0.0 39.2  
 88 15.5 0.0 31.4





#35

Dibromofluoromethane

Concen: 47.348 ug/l

RT: 7.59 min Scan# 1809

Delta R.T. 0.00 min

Lab File: VN056506.D

Acq: 26 Jun 2019 15:11

Instrument :

MSVOA\_N

ClientSampleId :

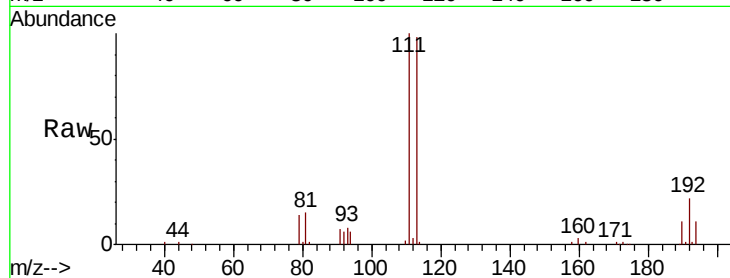
Tot Ion:113 Resp: 174492

Ion Ratio Lower Upper

113 100

111 102.4 82.9 124.3

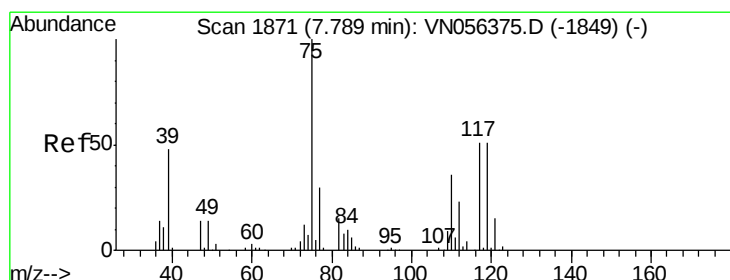
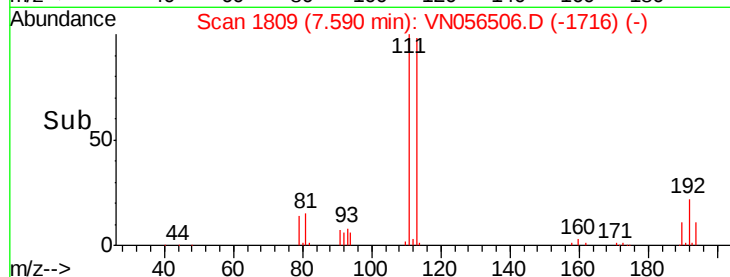
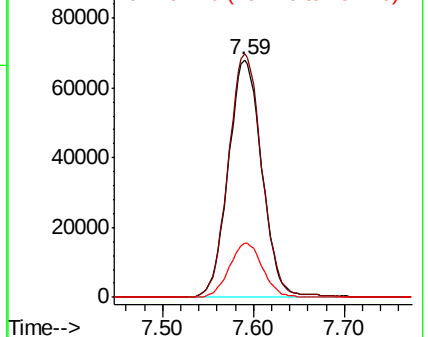
192 22.5 17.7 26.5



Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V



#36

1,1-Dichloropropene

Concen: 4.337 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. -0.13 min

Lab File: VN056506.D

Acq: 26 Jun 2019 15:11

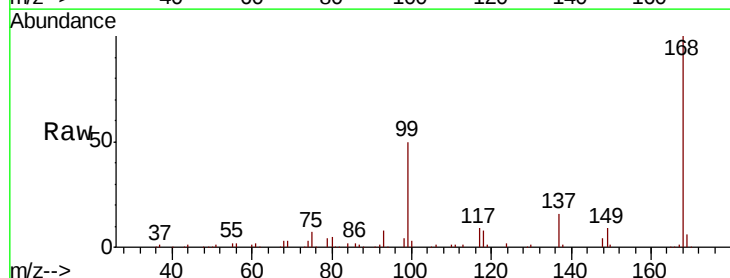
Tgt Ion: 75 Resp: 22550

Ion Ratio Lower Upper

75 100

110 8.8 18.1 54.3#

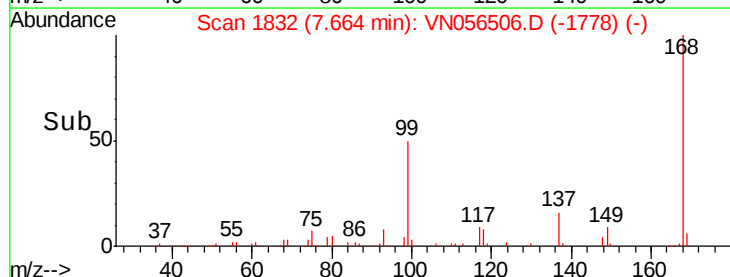
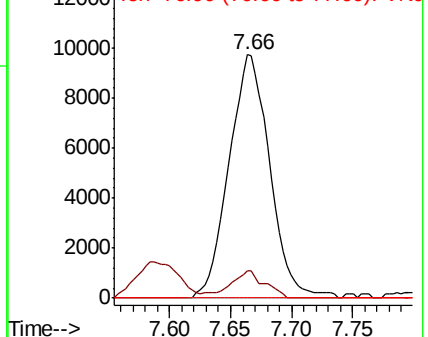
77 0.0 24.6 36.8#

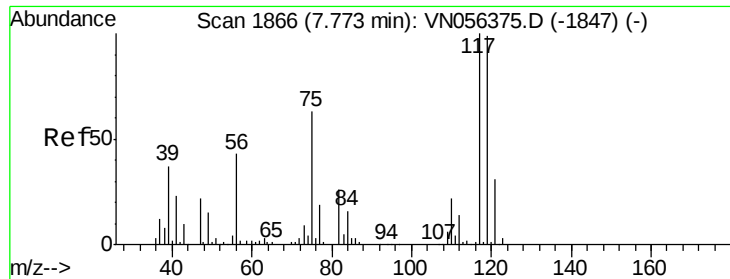


Abundance Ion 74.90 (74.60 to 75.60): V

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): V





#38

Carbon Tetrachloride

Concen: 6.686 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. -0.11 min

Lab File: VN056506.D

Acq: 26 Jun 2019 15:11

Instrument :

MSVOA\_N

ClientSampleId :

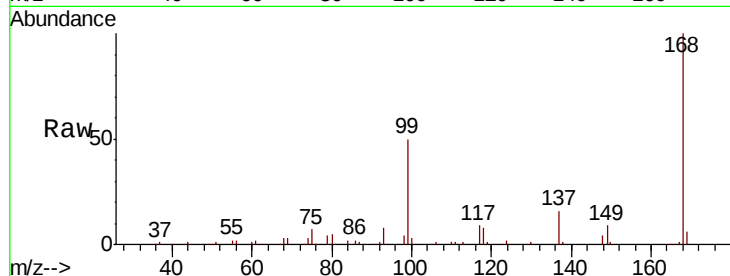
Tot Ion:117 Resp: 30400

Ion Ratio Lower Upper

117 100

119 5.6 79.1 118.7#

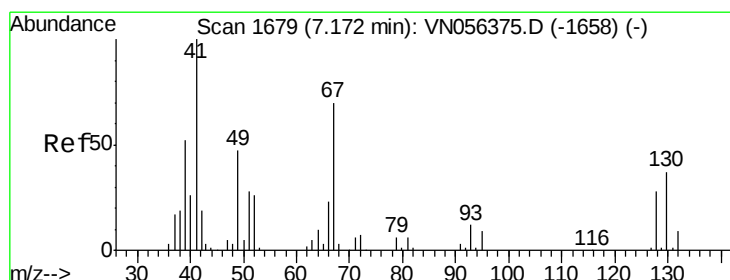
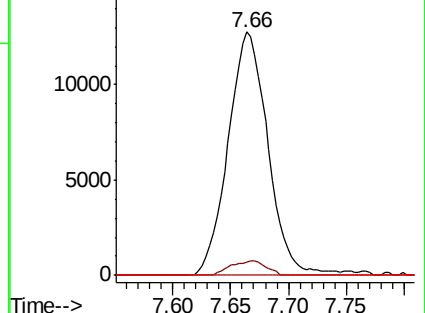
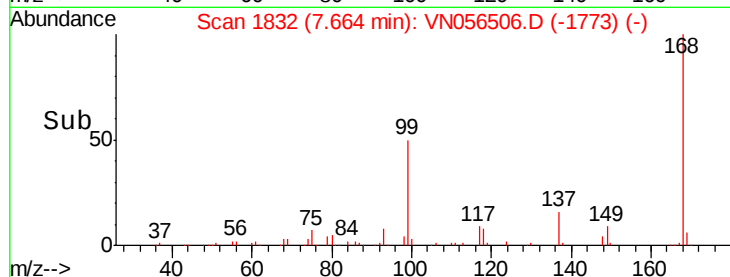
121 0.0 24.8 37.2#



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: 0.472 ug/l

RT: 7.22 min Scan# 1695

Delta R.T. 0.05 min

Lab File: VN056506.D

Acq: 26 Jun 2019 15:11

Tgt Ion: 41 Resp: 1066

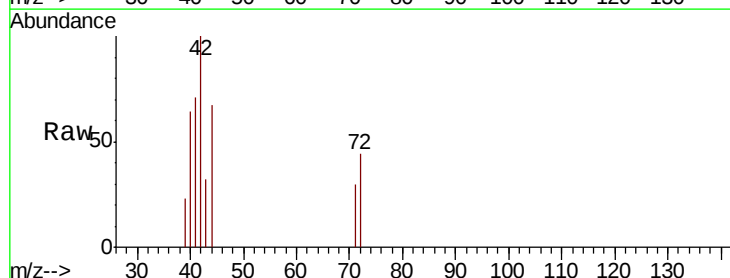
Ion Ratio Lower Upper

41 100

39 22.0 55.3 82.9#

67 0.0 79.2 118.8#

52 0.0 31.4 47.0#

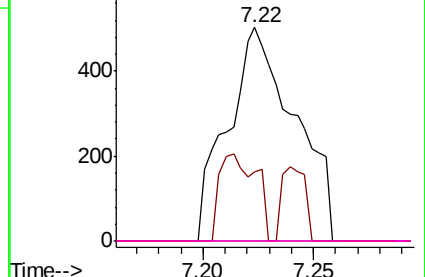
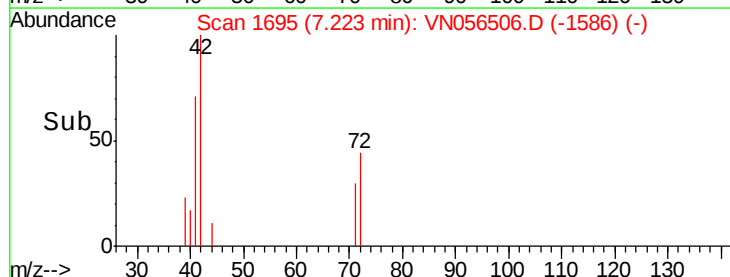


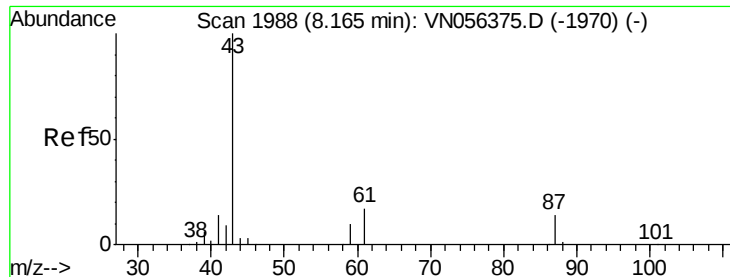
Abundance Ion 41.00 (40.70 to 41.70): VNC

Ion 39.00 (38.70 to 39.70): VNC

Ion 67.00 (66.70 to 67.70): VNC

Ion 52.00 (51.70 to 52.70): VNC





#43

Isopropyl Acetate

Concen: 1.899 ug/l

RT: 8.17 min Scan# 1989

Delta R.T. 0.00 min

Lab File: VN056506.D

Acq: 26 Jun 2019 15:11

Instrument :

MSVOA\_N

ClientSampleId :

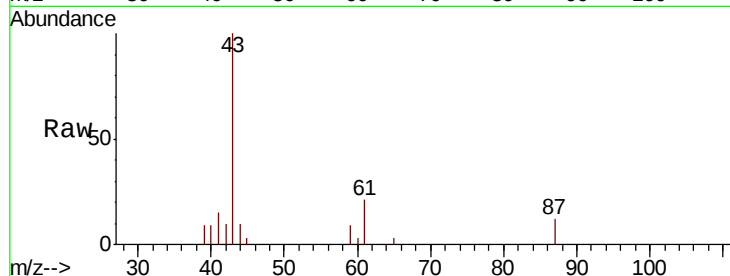
Tot Ion: 43 Resp: 14960

Ion Ratio Lower Upper

43 100

61 20.6 22.0 33.0#

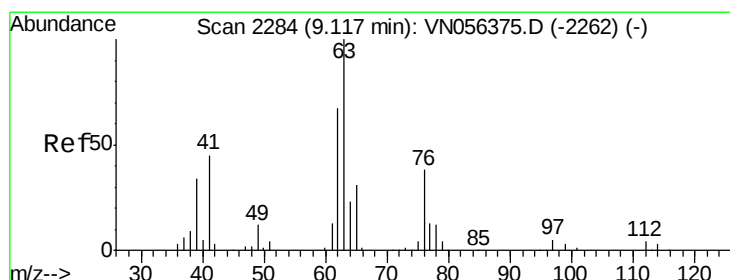
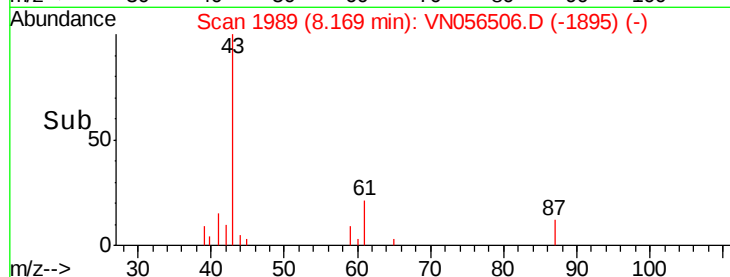
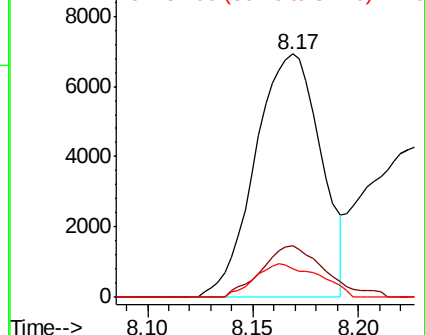
87 13.5 11.0 16.4



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



#45

1,2-Dichloropropane

Concen: 0.420 ug/l

RT: 9.27 min Scan# 2330

Delta R.T. 0.15 min

Lab File: VN056506.D

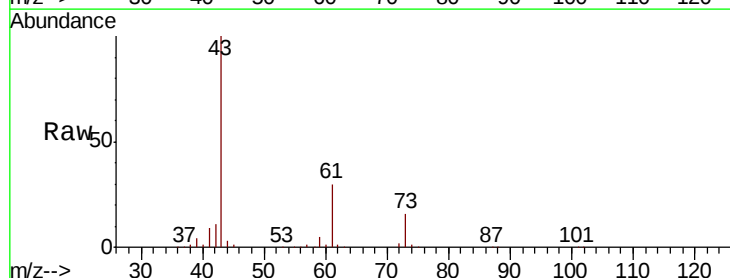
Acq: 26 Jun 2019 15:11

Tgt Ion: 63 Resp: 1797

Ion Ratio Lower Upper

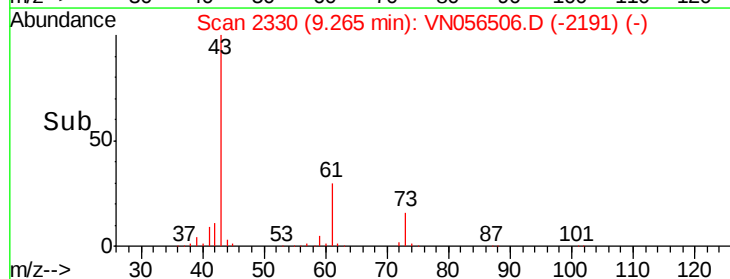
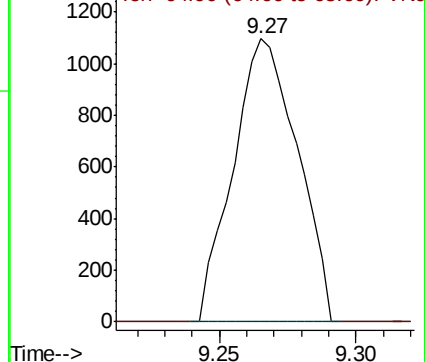
63 100

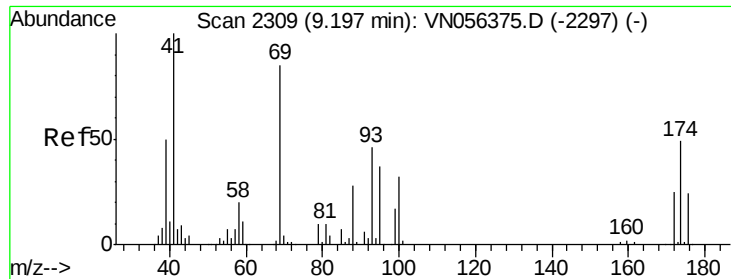
65 0.0 25.0 37.6#



Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 64.90 (64.60 to 65.60): VN0

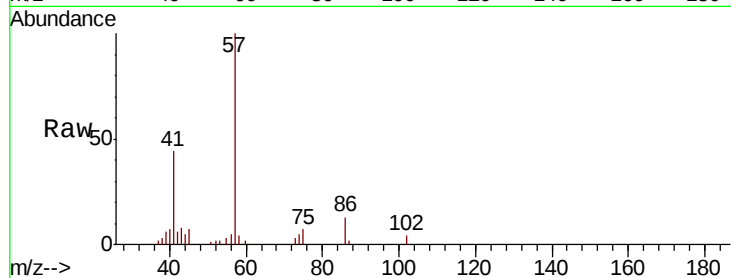




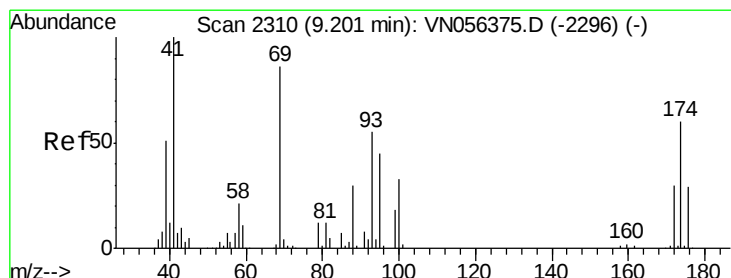
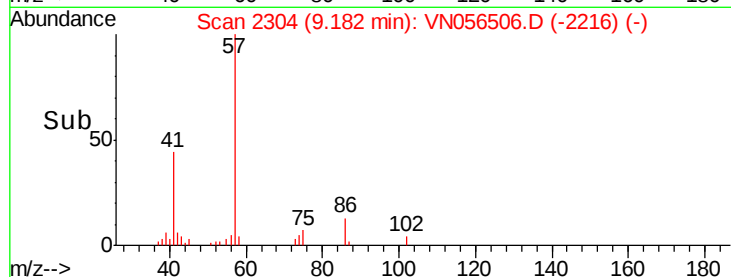
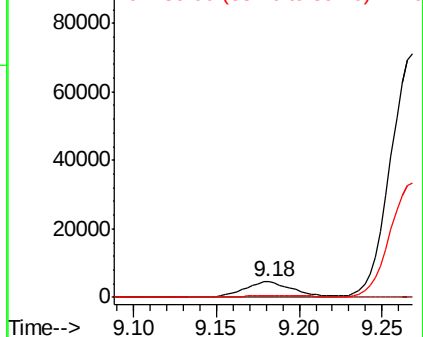
#48  
Methyl methacrylate  
Concen: 2.213 ug/l  
RT: 9.18 min Scan# 2304  
Delta R.T. -0.02 min  
Lab File: VN056506.D  
Acq: 26 Jun 2019 15:11

Instrument :  
MSVOA\_N  
ClientSampled :

Tot Ion: 41 Resp: 8740  
Ion Ratio Lower Upper  
41 100  
69 0.0 72.6 109.0#  
39 0.0 42.6 63.8#

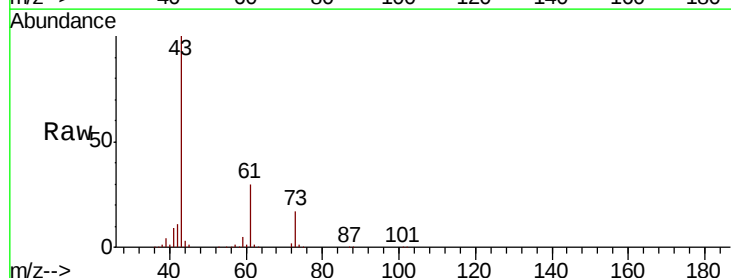


Abundance Ion 41.00 (40.70 to 41.70): VNO  
Ion 69.00 (68.70 to 69.70): VNO  
Ion 39.00 (38.70 to 39.70): VNO

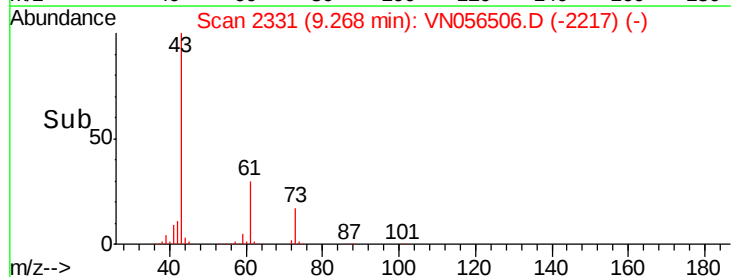
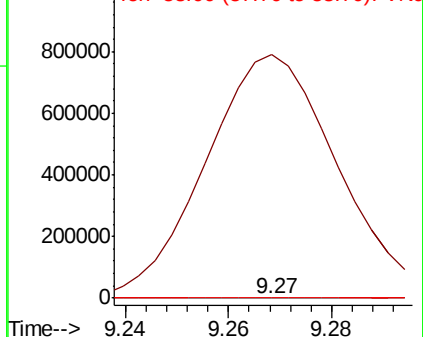


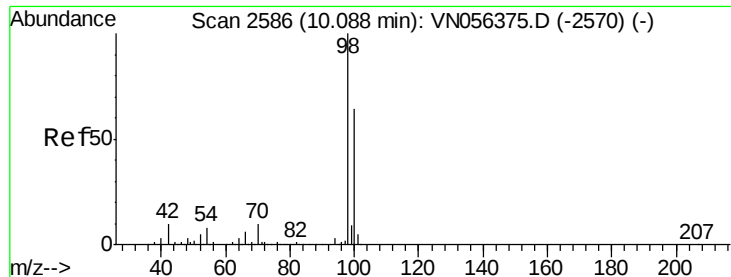
#49  
1,4-Dioxane  
Concen: 2.953 ug/l  
RT: 9.27 min Scan# 2331  
Delta R.T. 0.07 min  
Lab File: VN056506.D  
Acq: 26 Jun 2019 15:11

Tgt Ion: 88 Resp: 242  
Ion Ratio Lower Upper  
88 100  
43 593316.5 22.0 33.0#  
58 2631.0 51.8 77.8#



Abundance Ion 88.00 (87.70 to 88.70): VNO  
Ion 43.00 (42.70 to 43.70): VNO  
Ion 58.00 (57.70 to 58.70): VNO





#50

Toluene-d8

Concen: 51.650 ug/l

RT: 10.09 min Scan# 2586

Delta R.T. 0.00 min

Lab File: VN056506.D

Acq: 26 Jun 2019 15:11

Instrument :

MSVOA\_N

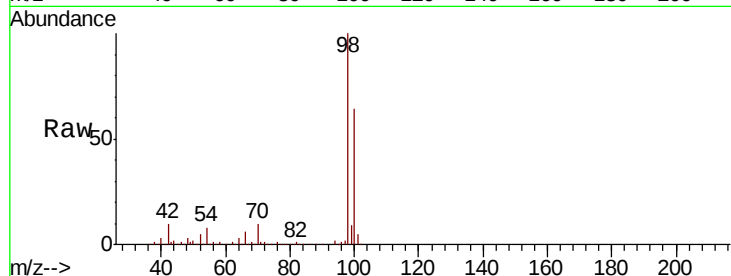
ClientSampled :

Tot Ion: 98 Resp: 740650

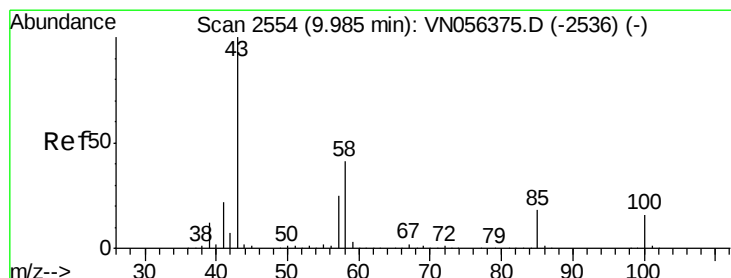
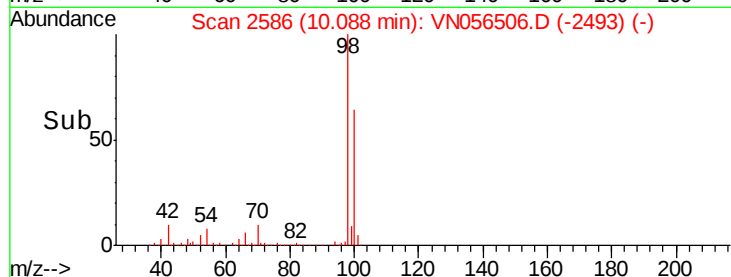
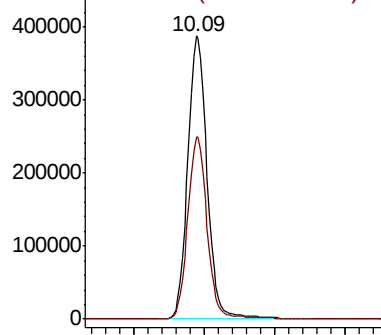
Ion Ratio Lower Upper

98 100

100 64.4 52.2 78.2



Abundance Ion 98.00 (97.70 to 98.70): VN056375.D (-2570) (-)



#51

4-Methyl-2-Pentanone

Concen: 1.250 ug/l

RT: 9.99 min Scan# 2554

Delta R.T. 0.00 min

Lab File: VN056506.D

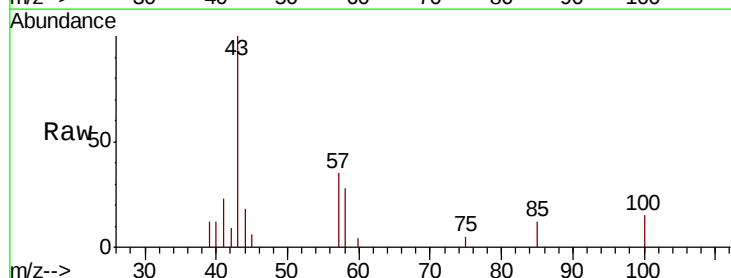
Acq: 26 Jun 2019 15:11

Tgt Ion: 43 Resp: 6355

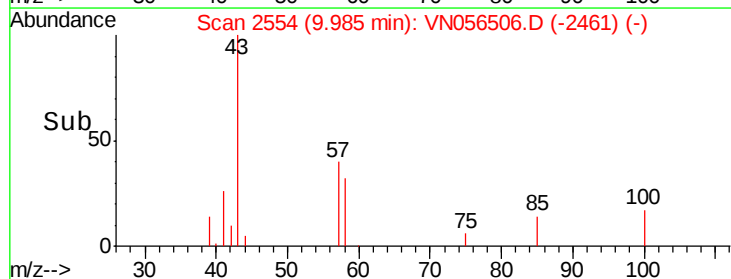
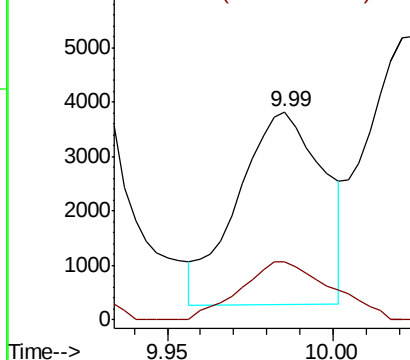
Ion Ratio Lower Upper

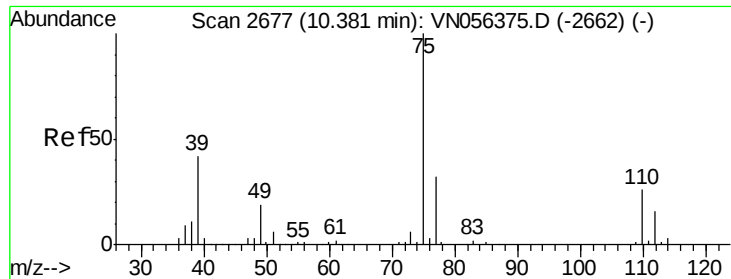
43 100

58 32.2 31.8 47.8



Abundance Ion 43.00 (42.70 to 43.70): VN056375.D (-2536) (-)





#53

t-1,3-Dichloropropene

Concen: 2.902 ug/l

RT: 10.37 min Scan# 2675

Delta R.T. -0.01 min

Lab File: VN056506.D

Acq: 26 Jun 2019 15:11

Instrument :

MSVOA\_N

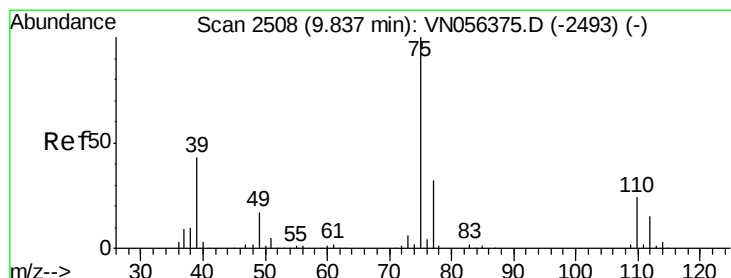
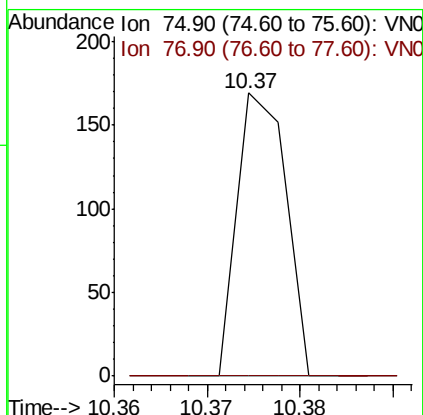
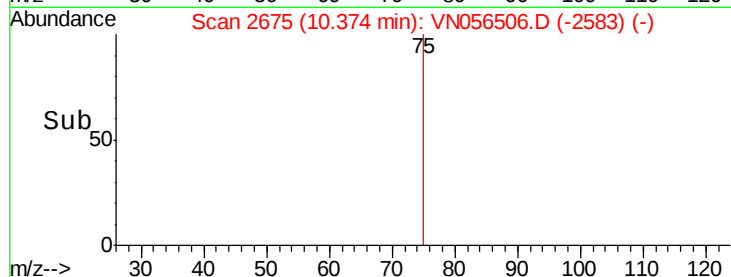
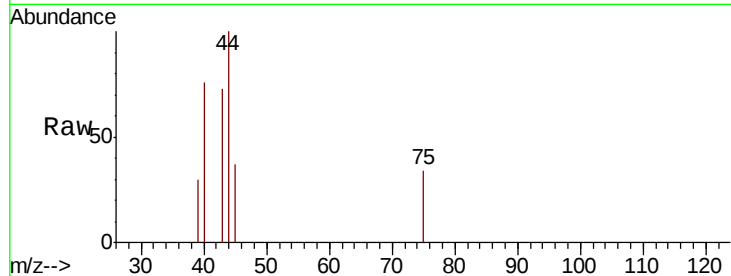
ClientSampleId :

Tot Ion: 75 Resp: 62

Ion Ratio Lower Upper

75 100

77 0.0 25.4 38.2#



#54

cis-1,3-Dichloropropene

Concen: 11.291 ug/l

RT: 9.90 min Scan# 2529

Delta R.T. 0.07 min

Lab File: VN056506.D

Acq: 26 Jun 2019 15:11

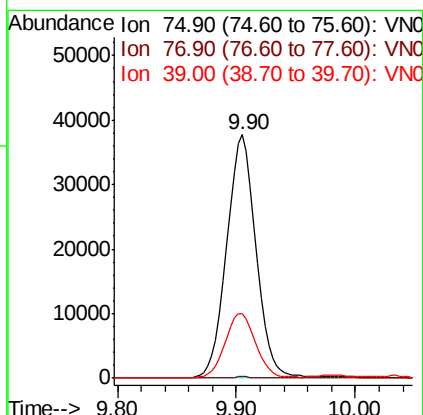
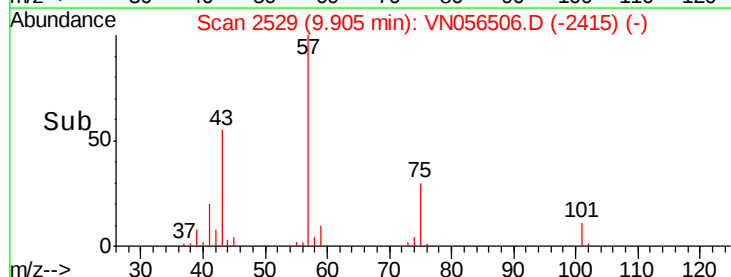
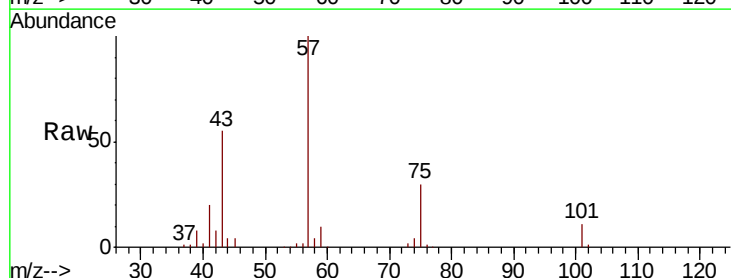
Tgt Ion: 75 Resp: 64535

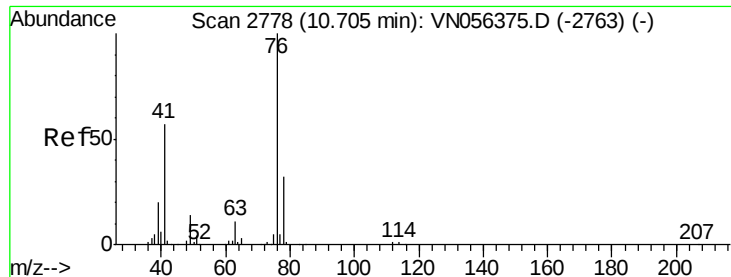
Ion Ratio Lower Upper

75 100

77 0.5 25.2 37.8#

39 26.3 34.2 51.4#





#57

1,3-Dichloropropane

Concen: 1.839 ug/l

RT: 10.76 min Scan# 2796

Delta R.T. 0.06 min

Lab File: VN056506.D

Acq: 26 Jun 2019 15:11

Instrument :

MSVOA\_N

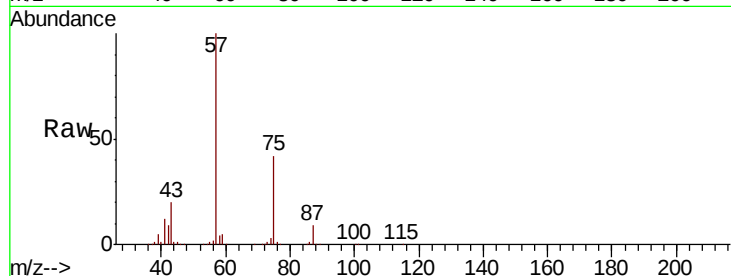
ClientSampled :

Tot Ion: 76 Resp: 12144

Ion Ratio Lower Upper

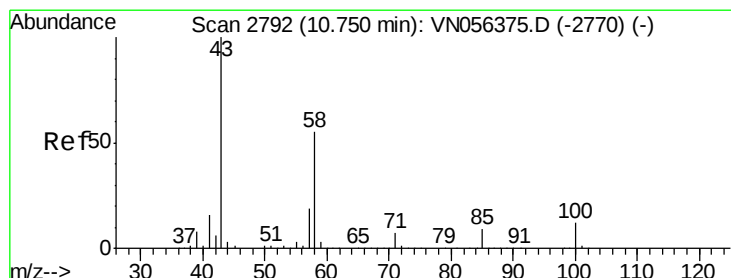
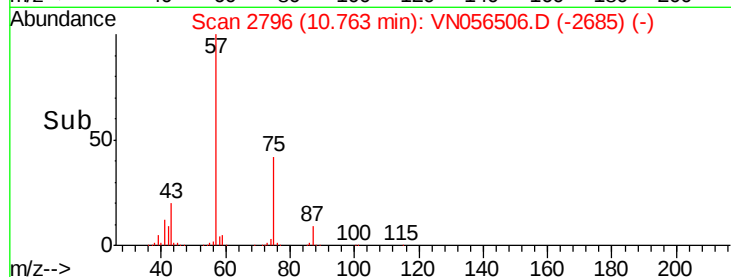
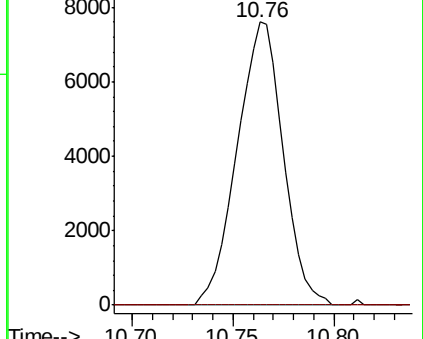
76 100

78 0.0 25.9 38.9#



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0



#59

2-Hexanone

Concen: 46.581 ug/l

RT: 10.76 min Scan# 2796

Delta R.T. 0.01 min

Lab File: VN056506.D

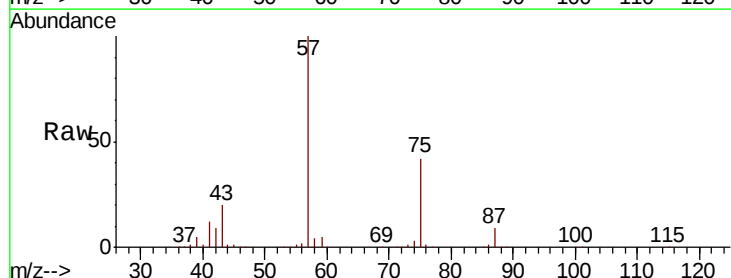
Acq: 26 Jun 2019 15:11

Tgt Ion: 43 Resp: 174110

Ion Ratio Lower Upper

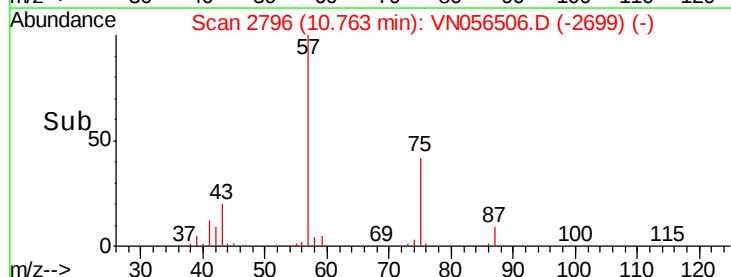
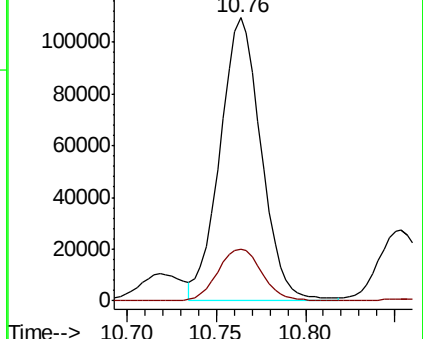
43 100

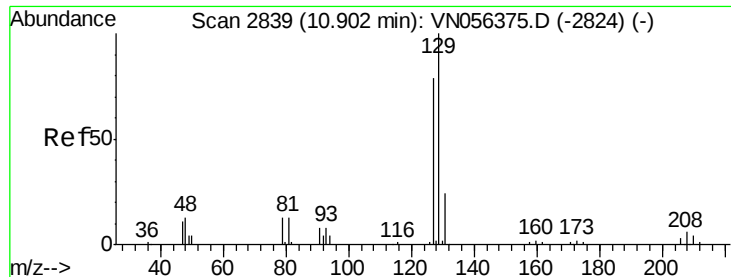
58 19.9 27.8 83.4#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0





#60

Dibromochloromethane

Concen: 2.420 ug/l

RT: 10.62 min Scan# 2752

Delta R.T. -0.28 min

Lab File: VN056506.D

Acq: 26 Jun 2019 15:11

Instrument :

MSVOA\_N

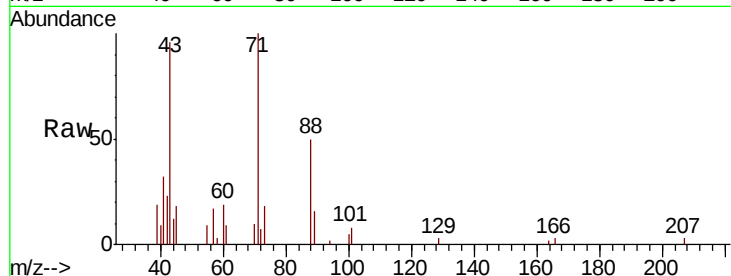
ClientSampleId :

Tot Ion:129 Resp: 162

Ion Ratio Lower Upper

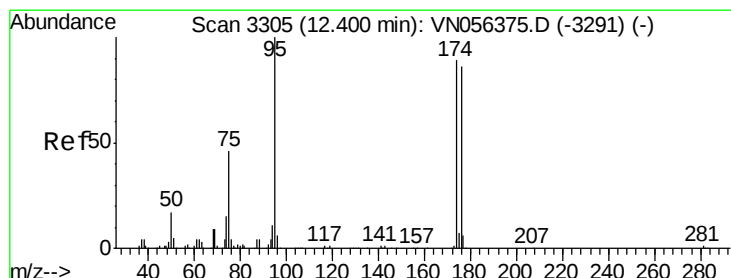
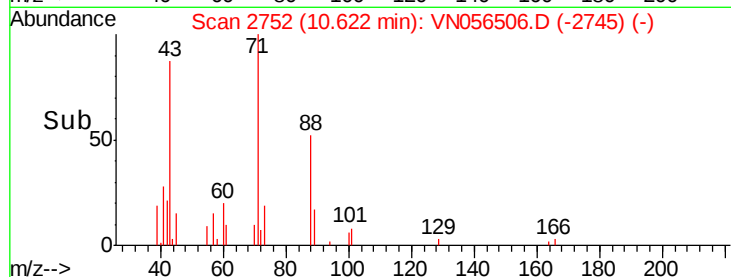
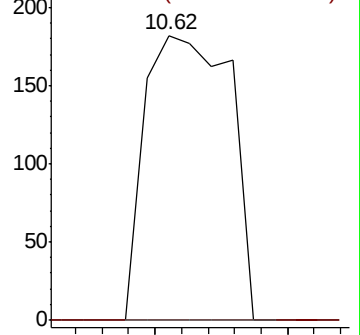
129 100

127 0.0 38.9 116.7#



Abundance Ion 128.80 (128.50 to 129.50): V

Ion 126.80 (126.50 to 127.50): V



#62

4-Bromofluorobenzene

Concen: 49.290 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.00 min

Lab File: VN056506.D

Acq: 26 Jun 2019 15:11

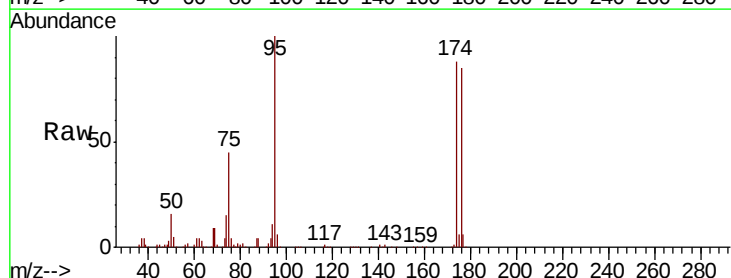
Tgt Ion: 95 Resp: 235621

Ion Ratio Lower Upper

95 100

174 89.5 0.0 179.4

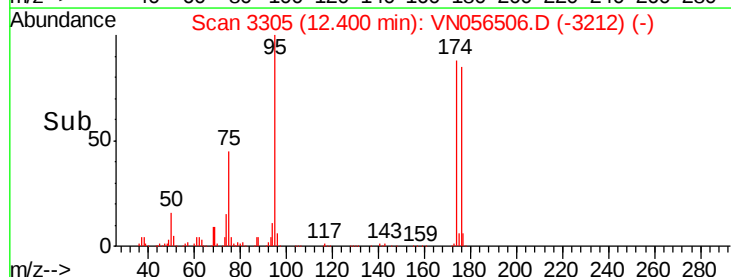
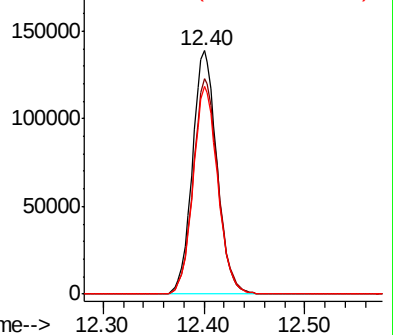
176 85.8 0.0 173.4

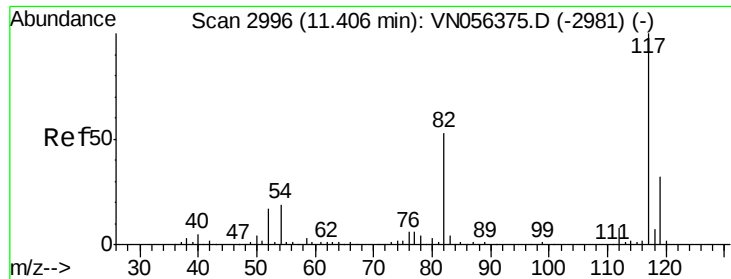


Abundance Ion 94.90 (94.60 to 95.60): V

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

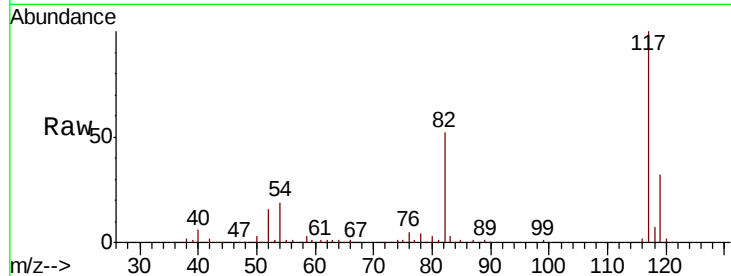




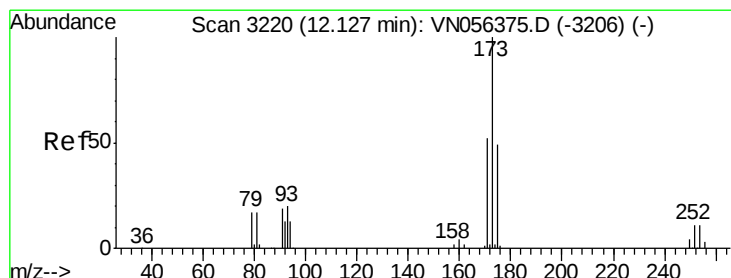
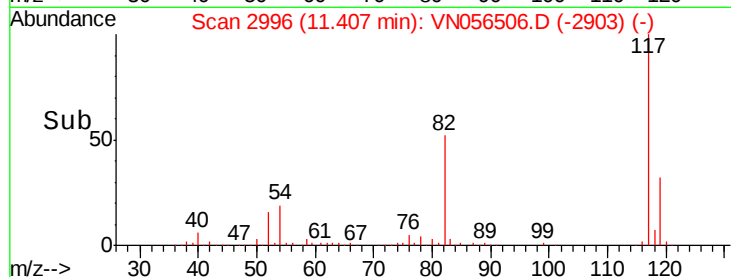
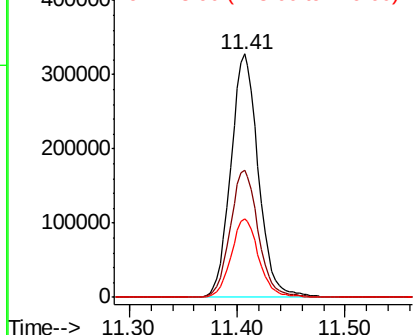
#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.41 min Scan# 2996  
Delta R.T. 0.00 min  
Lab File: VN056506.D  
Acq: 26 Jun 2019 15:11

Instrument :  
MSVOA\_N  
ClientSampleId :

Tot Ion:117 Resp: 586045  
Ion Ratio Lower Upper  
117 100  
82 52.4 42.0 63.0  
119 32.2 25.3 37.9

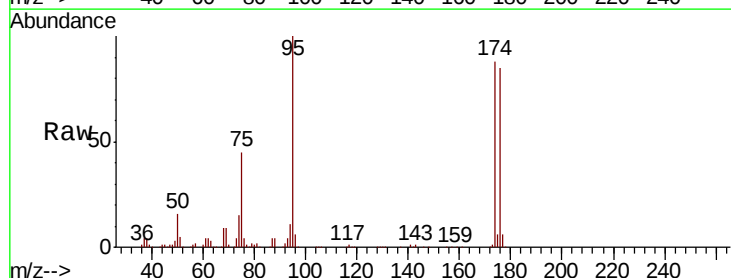


Abundance Ion 116.90 (116.60 to 117.60): V  
Ion 82.00 (81.70 to 82.70): V  
Ion 118.90 (118.60 to 119.60): V

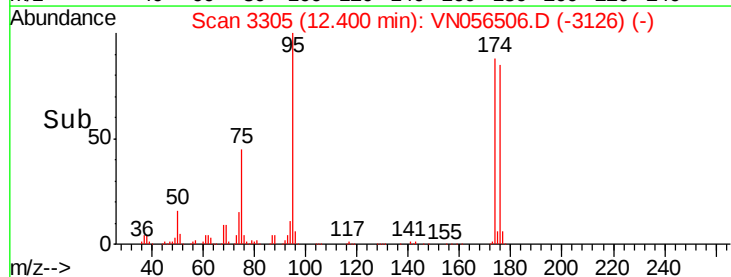
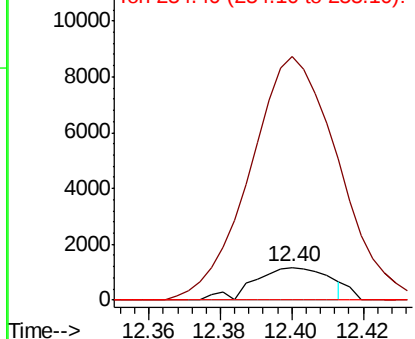


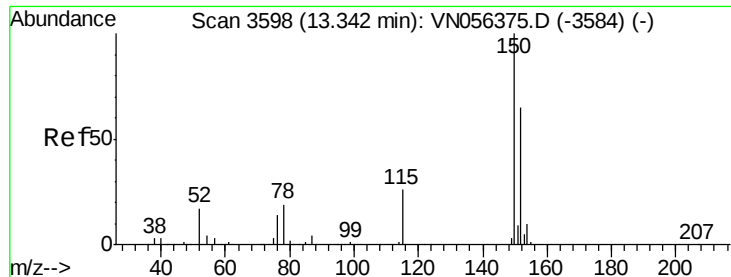
#71  
Bromoform  
Concen: 3.638 ug/l  
RT: 12.40 min Scan# 3305  
Delta R.T. 0.27 min  
Lab File: VN056506.D  
Acq: 26 Jun 2019 15:11

Tgt Ion:173 Resp: 1697  
Ion Ratio Lower Upper  
173 100  
175 774.7 24.4 73.4#  
254 0.0 0.0 0.0



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



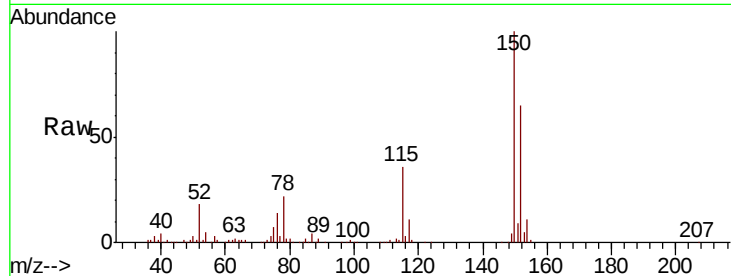


#72

1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.34 min Scan# 3598  
Delta R.T. 0.00 min  
Lab File: VN056506.D  
Acq: 26 Jun 2019 15:11

Instrument :  
MSVOA\_N  
ClientSampled :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 115     | 54.3  | 28.1  | 84.4  |
| 150     | 154.5 | 0.0   | 348.4 |

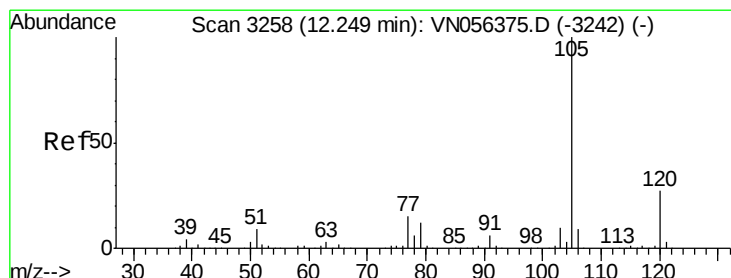
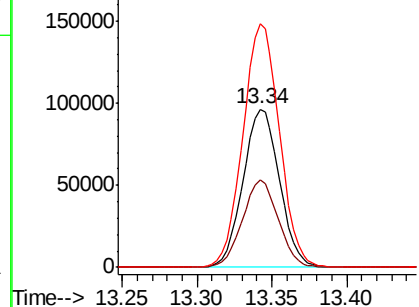
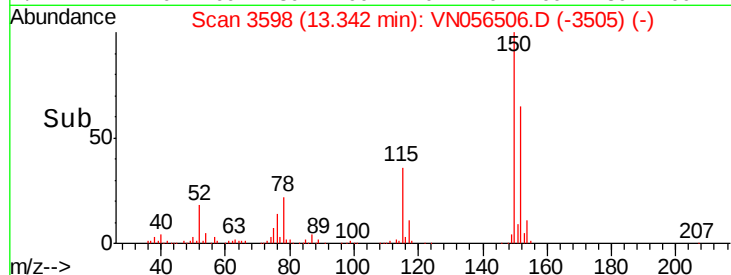


Abundance

Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

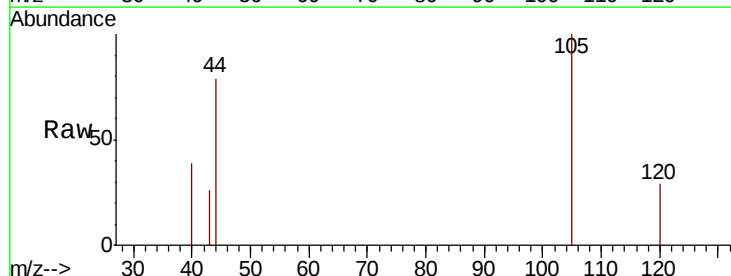
Ion 149.90 (149.60 to 150.60): V



#73

Isopropylbenzene  
Concen: Below Cal  
RT: 12.25 min Scan# 3259  
Delta R.T. 0.00 min  
Lab File: VN056506.D  
Acq: 26 Jun 2019 15:11

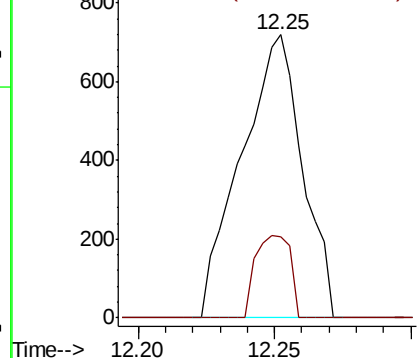
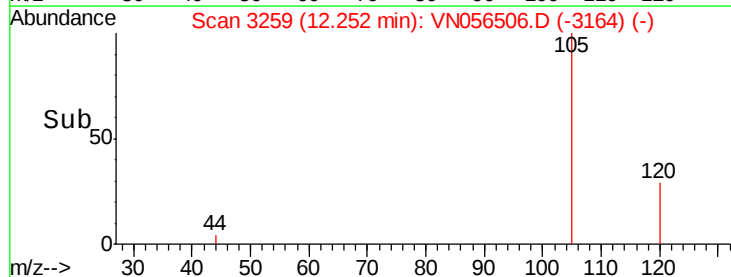
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 105     | 100   |       |       |
| 120     | 16.2  | 13.4  | 40.2  |

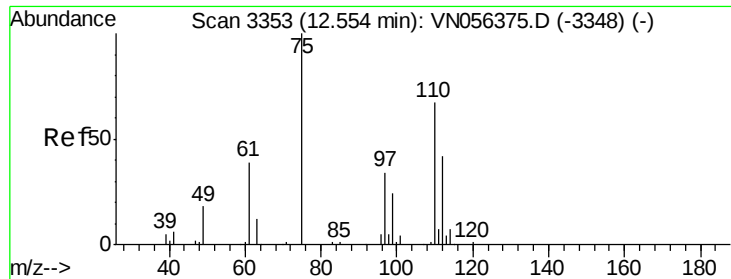


Abundance

Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#76

1,2,3-Trichloropropane

Concen: 31.365 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN056506.D

Acq: 26 Jun 2019 15:11

Instrument :

MSVOA\_N

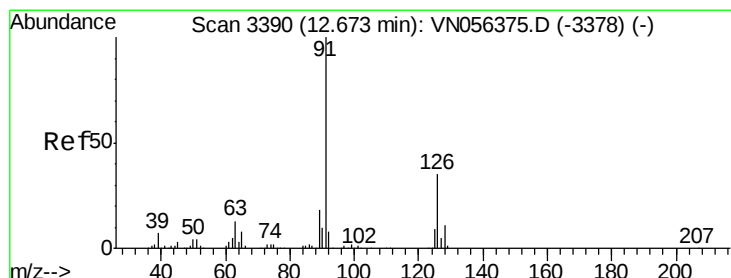
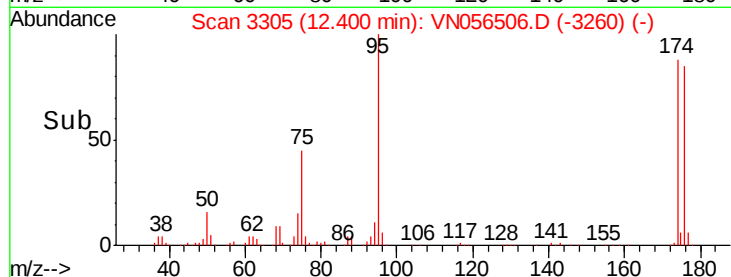
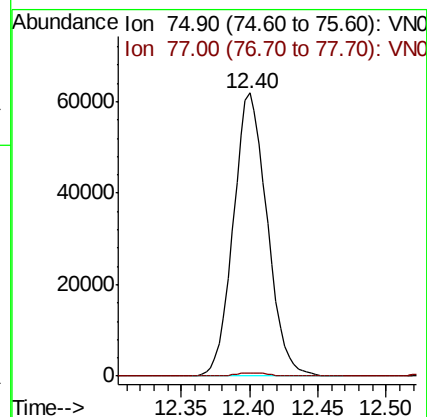
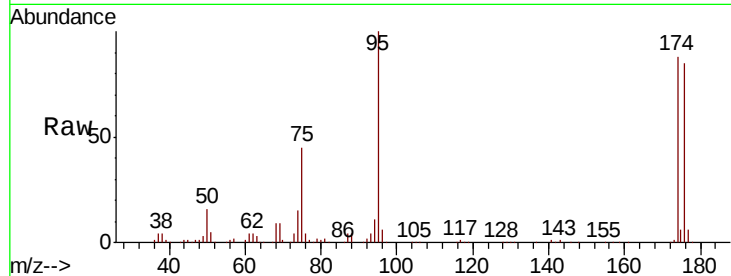
ClientSampled :

Tot Ion: 75 Resp: 106296

Ion Ratio Lower Upper

75 100

77 1.1 0.0 0.0#



#79

2-Chlorotoluene

Concen: Below Cal

RT: 12.67 min Scan# 3390

Delta R.T. 0.00 min

Lab File: VN056506.D

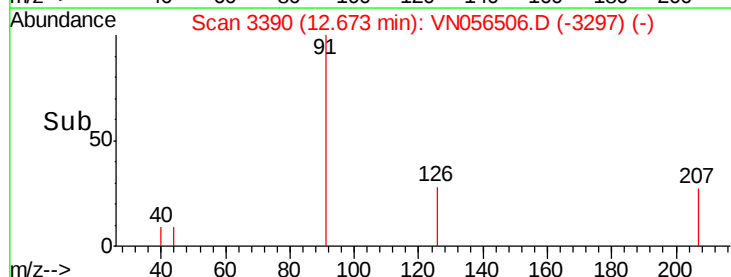
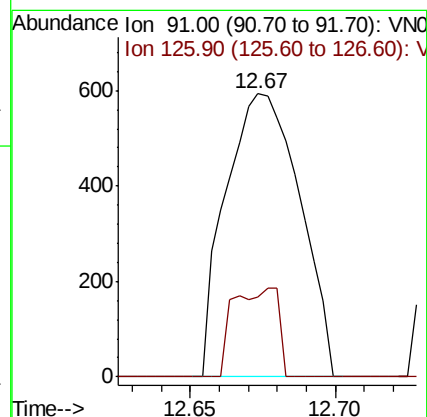
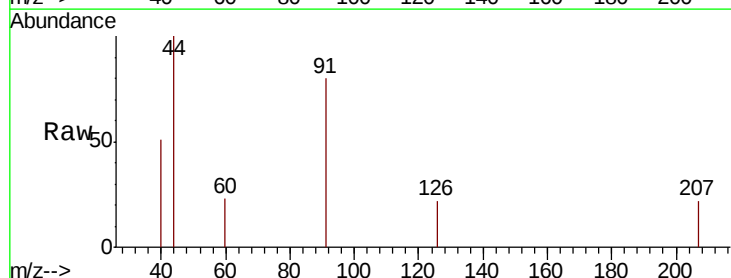
Acq: 26 Jun 2019 15:11

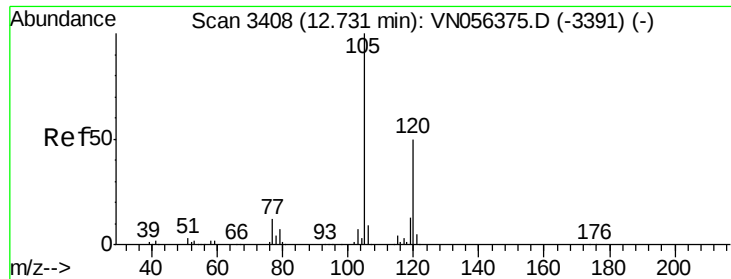
Tgt Ion: 91 Resp: 1054

Ion Ratio Lower Upper

91 100

126 18.9 17.6 52.8

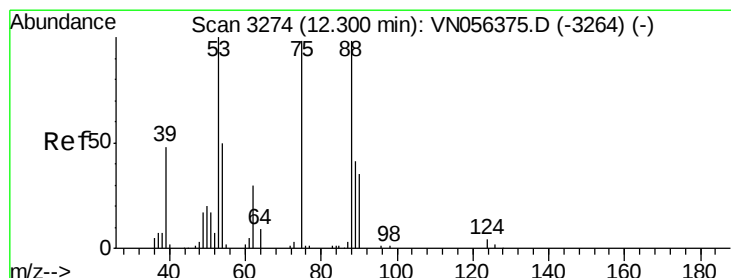
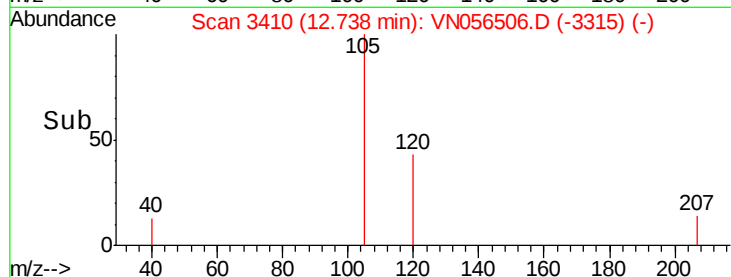
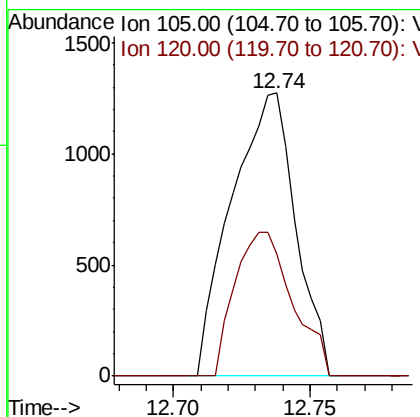
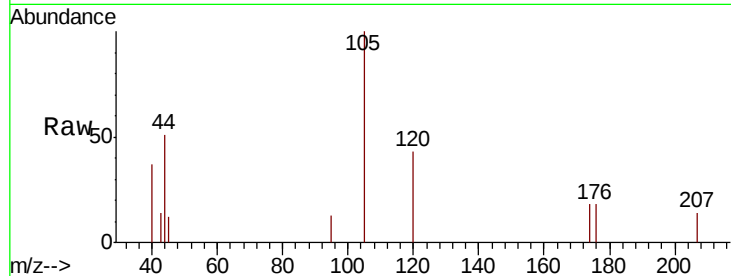




#80  
 1,3,5-Trimethylbenzene  
 Concen: Below Cal  
 RT: 12.74 min Scan# 3410  
 Delta R.T. 0.01 min  
 Lab File: VN056506.D  
 Acq: 26 Jun 2019 15:11

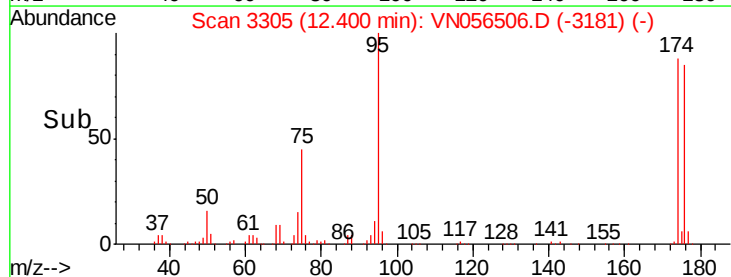
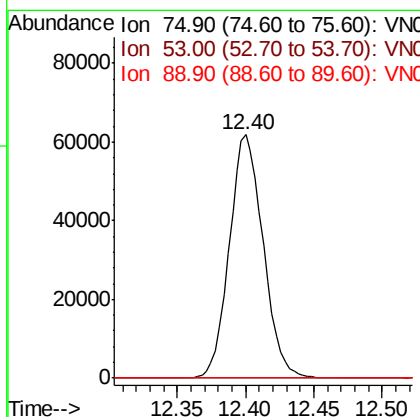
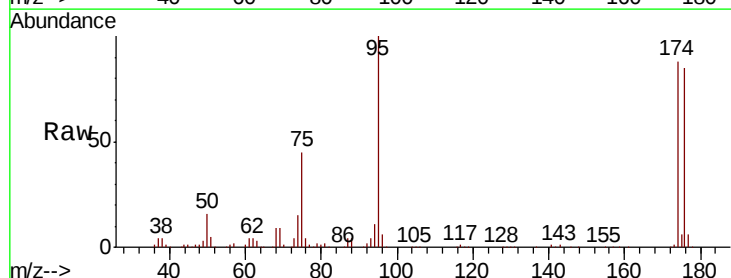
Instrument :  
 MSVOA\_N  
 ClientSampled :

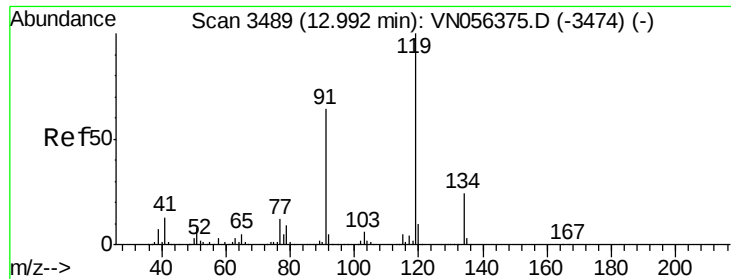
Tot Ion:105 Resp: 2074  
 Ion Ratio Lower Upper  
 105 100  
 120 45.9 24.8 74.4



#81  
 trans-1,4-Dichloro-2-butene  
 Concen: 111.477 ug/l  
 RT: 12.40 min Scan# 3305  
 Delta R.T. 0.10 min  
 Lab File: VN056506.D  
 Acq: 26 Jun 2019 15:11

Tgt Ion: 75 Resp: 106296  
 Ion Ratio Lower Upper  
 75 100  
 53 0.0 83.9 125.9#  
 89 0.0 35.0 52.6#

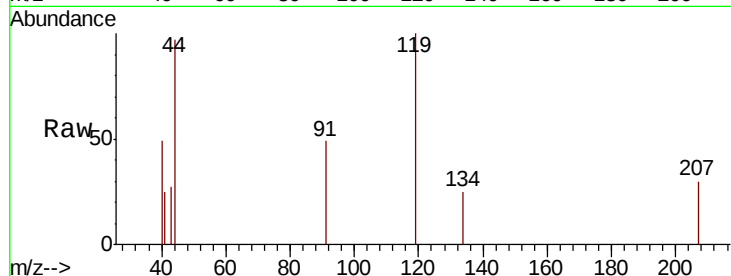




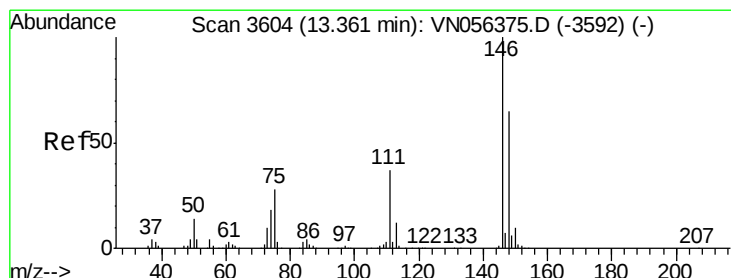
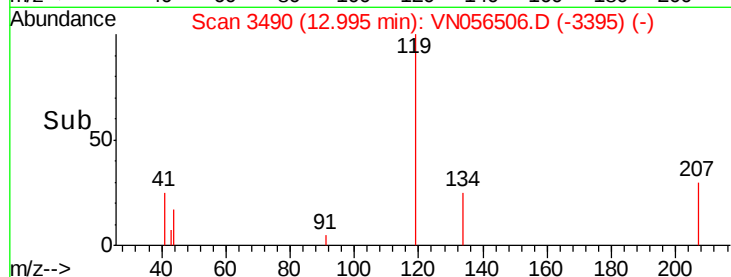
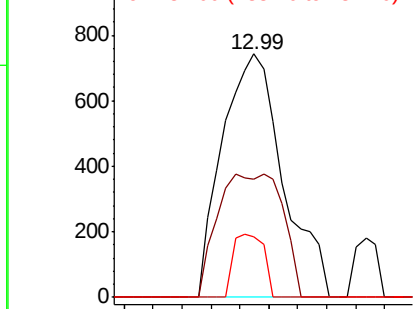
#83  
tert-Butylbenzene  
Concen: Below Cal  
RT: 12.99 min Scan# 3490  
Delta R.T. 0.00 min  
Lab File: VN056506.D  
Acq: 26 Jun 2019 15:11

Instrument :  
MSVOA\_N  
ClientSampled :

Tot Ion:119 Resp: 1084  
Ion Ratio Lower Upper  
119 100  
91 53.9 31.6 94.7  
134 12.8 13.2 39.5#

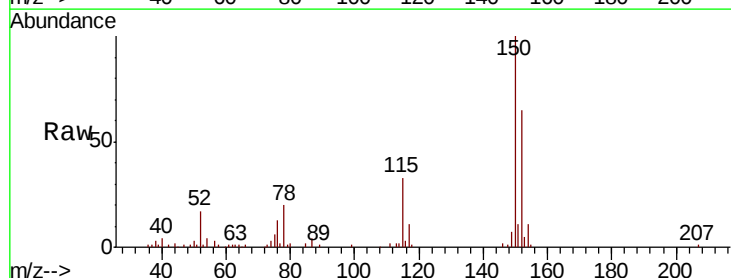


Abundance Ion 119.00 (118.70 to 119.70): V  
Ion 91.00 (90.70 to 91.70): V  
Ion 134.00 (133.70 to 134.70): V

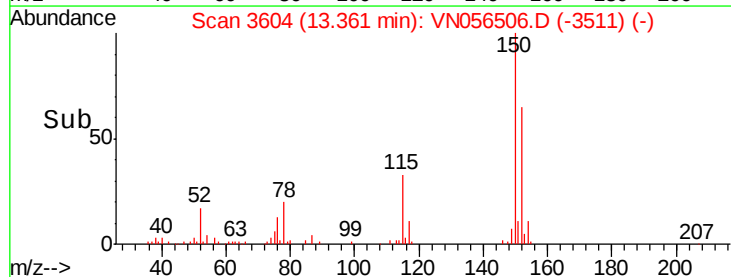
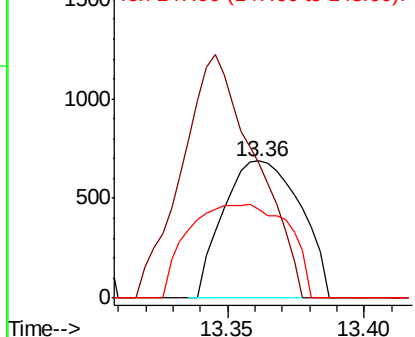


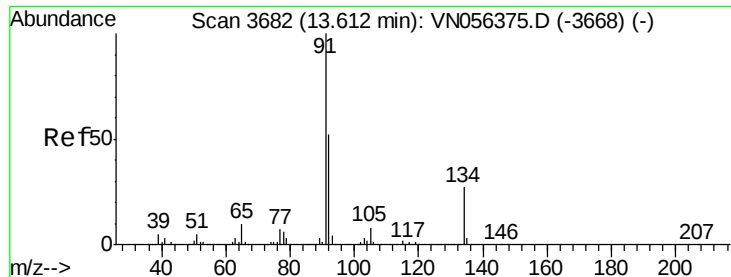
#88  
1,4-Dichlorobenzene  
Concen: 0.252 ug/l  
RT: 13.36 min Scan# 3604  
Delta R.T. 0.00 min  
Lab File: VN056506.D  
Acq: 26 Jun 2019 15:11

Tgt Ion:146 Resp: 1353  
Ion Ratio Lower Upper  
146 100  
111 169.3 18.4 55.4#  
148 88.1 32.4 97.0



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

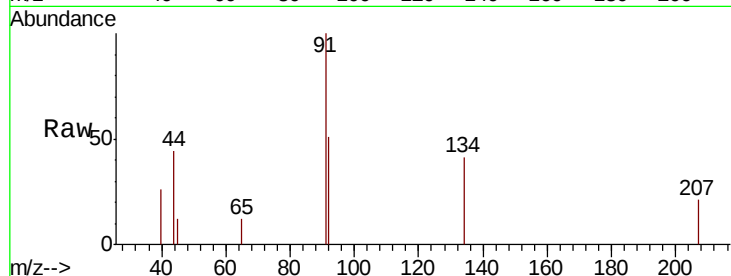




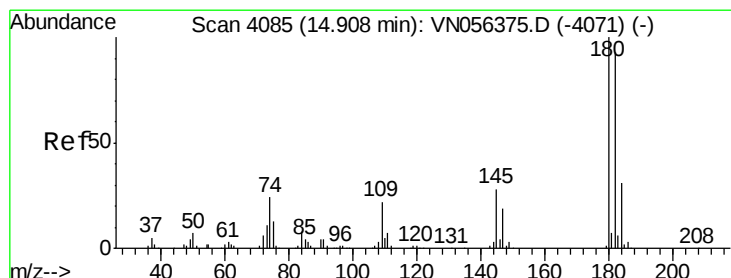
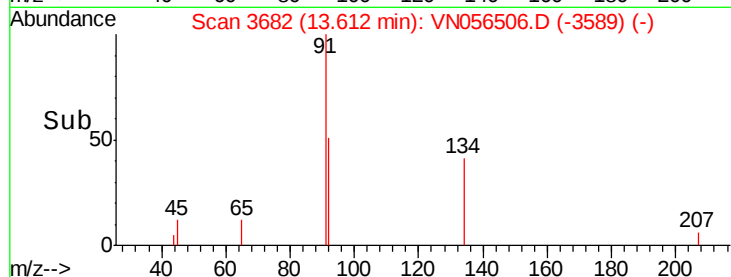
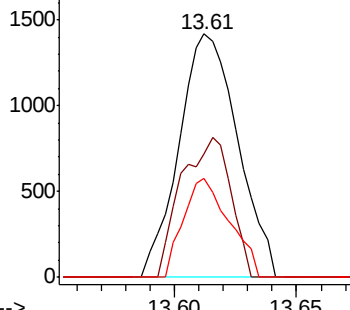
#89  
n-Butylbenzene  
Concen: 0.277 ug/l  
RT: 13.61 min Scan# 3682  
Delta R.T. 0.00 min  
Lab File: VN056506.D  
Acq: 26 Jun 2019 15:11

Instrument :  
MSVOA\_N  
ClientSampled :

Tot Ion: 91 Resp: 2368  
Ion Ratio Lower Upper  
91 100  
92 48.6 26.2 78.5  
134 31.8 13.4 40.2

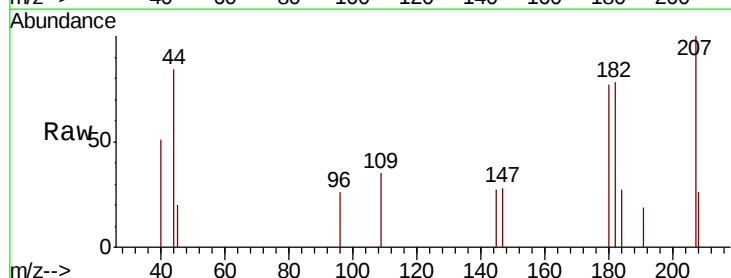


Abundance Ion 91.00 (90.70 to 91.70): VN056375.D (-3668) (-)  
Ion 92.00 (91.70 to 92.70): VN056375.D (-3668) (-)  
Ion 134.00 (133.70 to 134.70): VN056375.D (-3668) (-)

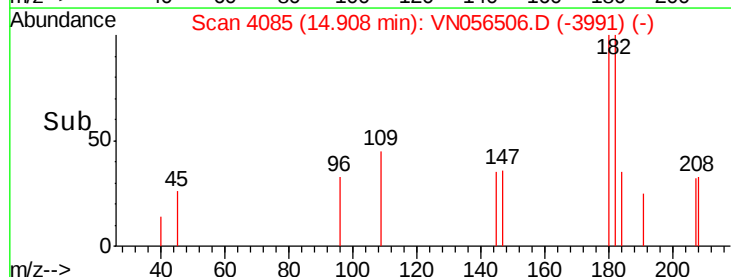
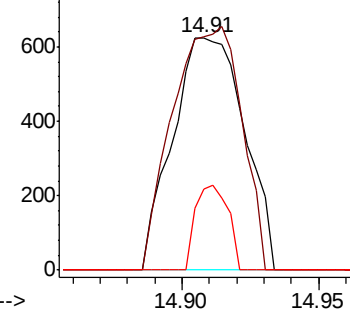


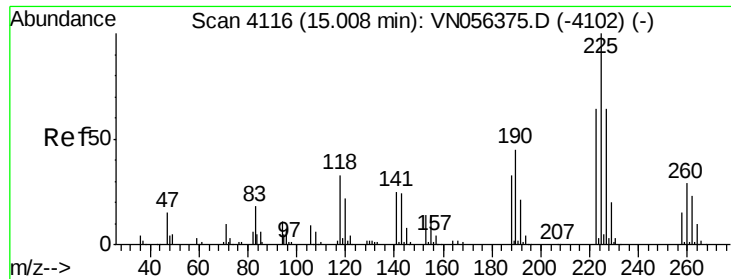
#93  
1,2,4-Trichlorobenzene  
Concen: 5.968 ug/l  
RT: 14.91 min Scan# 4085  
Delta R.T. 0.00 min  
Lab File: VN056506.D  
Acq: 26 Jun 2019 15:11

Tgt Ion: 180 Resp: 1141  
Ion Ratio Lower Upper  
180 100  
182 100.8 46.9 140.6  
145 16.2 14.4 43.0



Abundance Ion 179.80 (179.50 to 180.50): VN056375.D (-4071) (-)  
Ion 181.80 (181.50 to 182.50): VN056375.D (-4071) (-)  
Ion 144.80 (144.50 to 145.50): VN056375.D (-4071) (-)





#94

Hexachlorobutadiene

Concen: Below Cal

RT: 15.01 min Scan# 4116

Delta R.T. 0.00 min

Lab File: VN056506.D

Acq: 26 Jun 2019 15:11

Instrument :

MSVOA\_N

ClientSampled :

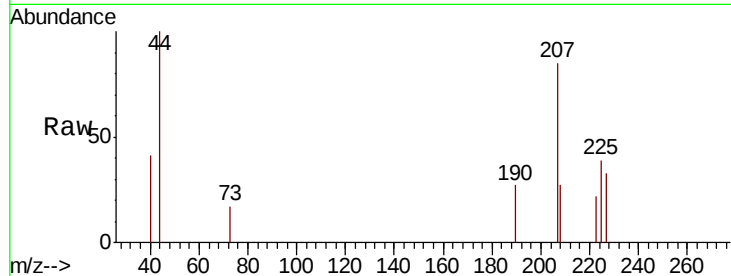
Tot Ion:225 Resp: 524

Ion Ratio Lower Upper

225 100

223 35.7 31.4 94.3

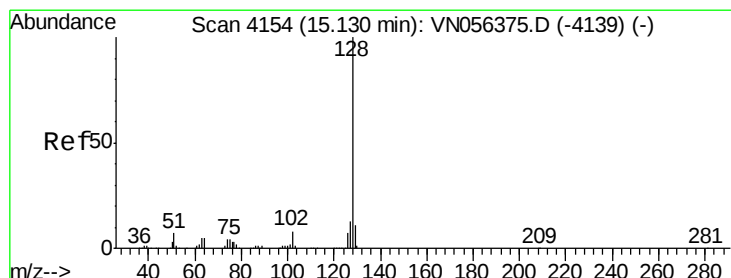
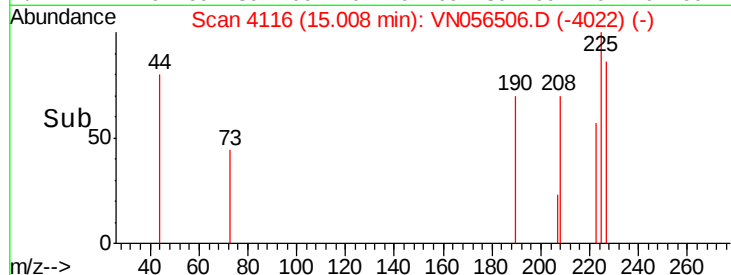
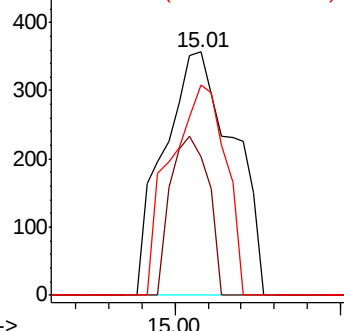
227 67.7 32.1 96.3



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: 5.686 ug/l

RT: 15.14 min Scan# 4156

Delta R.T. 0.01 min

Lab File: VN056506.D

Acq: 26 Jun 2019 15:11

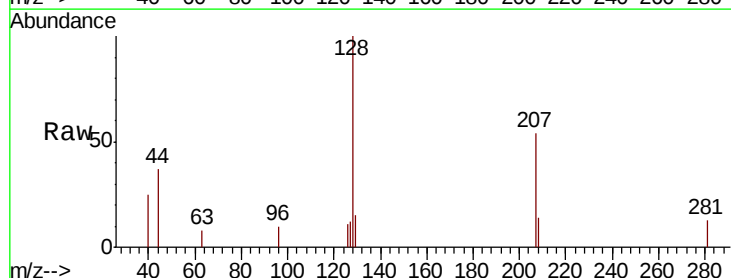
Tgt Ion:128 Resp: 3685

Ion Ratio Lower Upper

128 100

127 9.9 10.2 15.2#

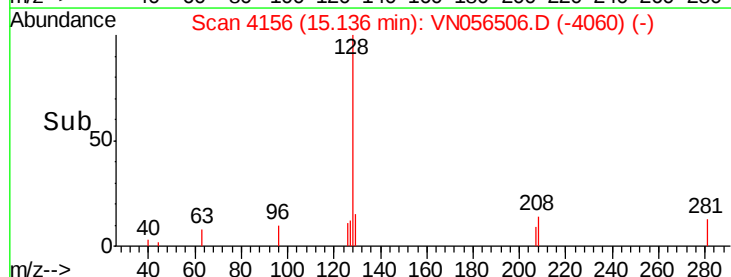
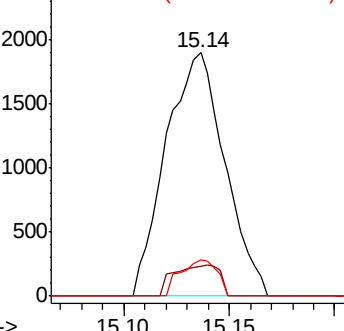
129 9.2 8.6 12.8

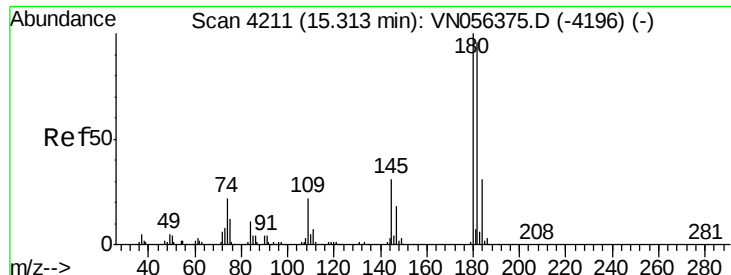


Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

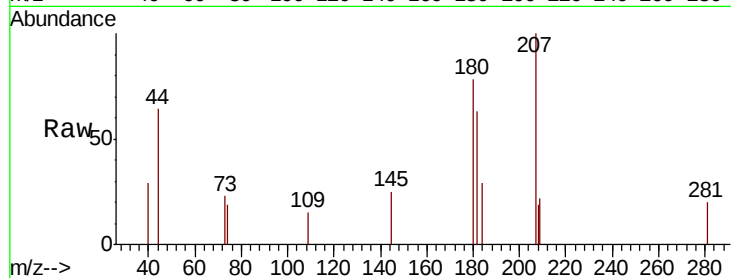




#96  
 1,2,3-Trichlorobenzene  
 Concen: 4.929 ug/l  
 RT: 15.31 min Scan# 4211  
 Delta R.T. 0.00 min  
 Lab File: VN056506.D  
 Acq: 26 Jun 2019 15:11

Instrument :  
 MSVOA\_N  
 ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 180     | 100   |       |       |
| 182     | 61.1  | 48.3  | 144.8 |
| 145     | 26.0  | 15.4  | 46.1  |



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

