

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN033019\  
 Data File : VN054797.D  
 Acq On : 30 Mar 2019 12:53  
 Operator : JC/SP  
 Sample : K1560-07  
 Misc : 5.00mL/MSVOA N/WATER  
 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :

Quant Time: Mar 30 22:38:29 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N032919W.M  
 Quant Title : SW846 8260  
 QLast Update : Sat Mar 30 00:48:18 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.67  | 168  | 388187   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.59  | 114  | 654808   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.41 | 117  | 552136   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.35 | 152  | 193976   | 50.00 | ug/l  | 0.00     |

## System Monitoring Compounds

|                           |        |     |          |       |         |      |
|---------------------------|--------|-----|----------|-------|---------|------|
| 33) 1,2-Dichloroethane-d4 | 8.03   | 65  | 286318   | 54.72 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 109.44% |      |
| 35) Dibromofluoromethane  | 7.59   | 113 | 216291   | 49.55 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 99.10%  |      |
| 50) Toluene-d8            | 10.09  | 98  | 794898   | 48.98 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 97.96%  |      |
| 62) 4-Bromofluorobenzene  | 12.40  | 95  | 240705   | 44.59 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 89.18%  |      |

## Target Compounds

|                               |      |     |       |              | Qvalue |
|-------------------------------|------|-----|-------|--------------|--------|
| 2) Dichlorodifluoromethane    | 1.85 | 85  | 4374  | 1.114 ug/l   | 100    |
| 3) Chloromethane              | 2.06 | 50  | 6007  | 1.106 ug/l   | 94     |
| 4) Vinyl Chloride             | 2.19 | 62  | 5211  | 1.069 ug/l   | 100    |
| 5) Bromomethane               | 2.57 | 94  | 3734  | Below Cal    | 98     |
| 6) Chloroethane               | 2.71 | 64  | 2818  | 1.035 ug/l   | 95     |
| 7) Trichlorofluoromethane     | 3.02 | 101 | 6188  | 1.032 ug/l   | 98     |
| 8) Diethyl Ether              | 3.41 | 74  | 2165  | 1.122 ug/l   | 67     |
| 9) 1,1,2-Trichlorotrifluoroet | 3.76 | 101 | 3227  | 1.023 ug/l   | 96     |
| 11) Tert butyl alcohol        | 4.82 | 59  | 584   | 2.142 ug/l # | 70     |
| 12) 1,1-Dichloroethene        | 3.72 | 96  | 3414  | 1.119 ug/l # | 78     |
| 13) Acrolein                  | 3.62 | 56  | 99    | 0.406 ug/l # | 1      |
| 14) Allyl chloride            | 4.32 | 41  | 7989  | 1.063 ug/l # | 81     |
| 15) Acrylonitrile             | 5.01 | 53  | 7686  | 5.072 ug/l   | 94     |
| 16) Acetone                   | 3.82 | 43  | 7588  | 6.081 ug/l # | 81     |
| 17) Carbon Disulfide          | 4.04 | 76  | 10016 | 1.012 ug/l # | 94     |
| 18) Methyl Acetate            | 4.33 | 43  | 4415  | 0.447 ug/l # | 67     |
| 19) Methyl tert-butyl Ether   | 5.05 | 73  | 4649  | 0.436 ug/l   | 96     |
| 20) Methylene Chloride        | 4.54 | 84  | 5365  | 1.219 ug/l # | 82     |
| 21) trans-1,2-Dichloroethene  | 5.03 | 96  | 4051  | 1.011 ug/l   | 98     |
| 22) Diisopropyl ether         | 5.96 | 45  | 14055 | 0.945 ug/l # | 84     |
| 23) Vinyl Acetate             | 5.91 | 43  | 46425 | 4.488 ug/l # | 93     |
| 24) 1,1-Dichloroethane        | 5.85 | 63  | 8016  | 1.011 ug/l # | 95     |
| 25) 2-Butanone                | 6.86 | 43  | 4051  | 2.196 ug/l   | 100    |
| 27) cis-1,2-Dichloroethene    | 6.83 | 96  | 4349  | 0.961 ug/l   | 85     |
| 28) Bromochloromethane        | 7.20 | 49  | 4388  | 1.107 ug/l # | 67     |
| 29) Tetrahydrofuran           | 7.23 | 42  | 7209  | 5.627 ug/l # | 81     |
| 30) Chloroform                | 7.37 | 83  | 8037  | 1.063 ug/l   | 95     |
| 31) Cyclohexane               | 7.65 | 56  | 9400  | Below Cal #  | 60     |
| 32) 1,1,1-Trichloroethane     | 7.58 | 97  | 6360  | 1.015 ug/l # | 49     |
| 36) 1,1-Dichloropropene       | 7.79 | 75  | 7173  | 1.176 ug/l # | 81     |
| 37) Ethyl Acetate             | 6.94 | 43  | 2743  | 0.613 ug/l # | 90     |
| 38) Carbon Tetrachloride      | 7.77 | 117 | 6978  | 1.177 ug/l # | 90     |
| 39) Methylcyclohexane         | 9.08 | 83  | 6117  | 0.912 ug/l # | 81     |
| 40) Benzene                   | 8.04 | 78  | 16707 | 0.957 ug/l   | 94     |

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 Quant Title : SW846 8260  
 QLast Update : Sat Mar 30 00:48:18 2019  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc      | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|-----------|--------|----------|
| -----                          |       |      |          |           |        |          |
| 41) Methacrylonitrile          | 7.18  | 41   | 1563     | 0.622     | ug/l # | 73       |
| 42) 1,2-Dichloroethane         | 8.12  | 62   | 6807     | 1.092     | ug/l   | 84       |
| 43) Isopropyl Acetate          | 8.17  | 43   | 8389     | 1.154     | ug/l # | 71       |
| 44) Trichloroethene            | 8.84  | 130  | 4414     | 0.974     | ug/l   | 94       |
| 45) 1,2-Dichloropropane        | 9.12  | 63   | 5007     | 1.006     | ug/l   | 95       |
| 46) Dibromomethane             | 9.21  | 93   | 2747     | 0.981     | ug/l # | 86       |
| 47) Bromodichloromethane       | 9.41  | 83   | 4975     | 0.855     | ug/l # | 97       |
| 48) Methyl methacrylate        | 9.20  | 41   | 4299     | 1.091     | ug/l # | 70       |
| 49) 1,4-Dioxane                | 9.20  | 88   | 907      | 23.195    | ug/l # | 80       |
| 51) 4-Methyl-2-Pentanone       | 9.99  | 43   | 20021    | 4.898     | ug/l   | 93       |
| 52) Toluene                    | 10.16 | 92   | 9381     | 0.903     | ug/l   | 94       |
| 53) t-1,3-Dichloropropene      | 10.39 | 75   | 4506     | 0.823     | ug/l   | 93       |
| 54) cis-1,3-Dichloropropene    | 9.84  | 75   | 5072     | 0.776     | ug/l   | 90       |
| 55) 1,1,2-Trichloroethane      | 10.56 | 97   | 3956     | 1.024     | ug/l   | 94       |
| 56) Ethyl methacrylate         | 10.43 | 69   | 4427     | 0.874     | ug/l # | 77       |
| 57) 1,3-Dichloropropane        | 10.71 | 76   | 6586     | 0.992     | ug/l   | 99       |
| 58) 2-Chloroethyl Vinyl ether  | 9.70  | 63   | 8675     | 14.164    | ug/l # | 88       |
| 59) 2-Hexanone                 | 10.76 | 43   | 13546    | 5.177     | ug/l   | 83       |
| 60) Dibromochloromethane       | 10.90 | 129  | 3295     | 0.842     | ug/l   | 92       |
| 61) 1,2-Dibromoethane          | 11.01 | 107  | 3185     | 0.863     | ug/l   | 96       |
| 64) Tetrachloroethene          | 10.63 | 164  | 4350     | 1.027     | ug/l   | 96       |
| 65) Chlorobenzene              | 11.43 | 112  | 10521    | 0.973     | ug/l   | 97       |
| 66) 1,1,1,2-Tetrachloroethane  | 11.51 | 131  | 3347     | 0.827     | ug/l # | 65       |
| 67) Ethyl Benzene              | 11.51 | 91   | 17017    | 0.872     | ug/l   | 92       |
| 68) m/p-Xylenes                | 11.62 | 106  | 12783    | 1.771     | ug/l   | 97       |
| 69) o-Xylene                   | 11.95 | 106  | 6273     | 0.886     | ug/l   | 92       |
| 70) Styrene                    | 11.97 | 104  | 9187     | 0.812     | ug/l   | 90       |
| 71) Bromoform                  | 12.13 | 173  | 1852     | 0.781     | ug/l # | 100      |
| 73) Isopropylbenzene           | 12.25 | 105  | 16141    | 1.018     | ug/l   | 99       |
| 74) N-amyl acetate             | 12.07 | 43   | 4415     | 0.894     | ug/l # | 91       |
| 75) 1,1,2,2-Tetrachloroethane  | 12.50 | 83   | 4345     | Below Cal |        | 94       |
| 76) 1,2,3-Trichloropropane     | 12.40 | 75   | 129510   | 38.432    | ug/l # | 100      |
| 77) Bromobenzene               | 12.53 | 156  | 3753     | 0.981     | ug/l   | 68       |
| 78) n-propylbenzene            | 12.59 | 91   | 17752    | 1.019     | ug/l   | 92       |
| 79) 2-Chlorotoluene            | 12.67 | 91   | 11196    | 1.038     | ug/l   | 92       |
| 80) 1,3,5-Trimethylbenzene     | 12.73 | 105  | 12525    | 0.963     | ug/l   | 97       |
| 81) trans-1,4-Dichloro-2-buten | 12.40 | 75   | 129510   | 149.492   | ug/l # | 11       |
| 82) 4-Chlorotoluene            | 12.77 | 91   | 10848    | 1.036     | ug/l   | 91       |
| 83) tert-Butylbenzene          | 12.99 | 119  | 11391    | Below Cal |        | 94       |
| 84) 1,2,4-Trimethylbenzene     | 13.04 | 105  | 12238    | 0.987     | ug/l   | 95       |
| 85) sec-Butylbenzene           | 13.17 | 105  | 14067    | 0.995     | ug/l   | 98       |
| 86) p-Isopropyltoluene         | 13.29 | 119  | 10966    | 0.880     | ug/l   | 92       |
| 87) 1,3-Dichlorobenzene        | 13.28 | 146  | 6260     | 0.977     | ug/l   | 96       |
| 88) 1,4-Dichlorobenzene        | 13.28 | 146  | 6260     | 0.996     | ug/l   | 95       |
| 89) n-Butylbenzene             | 13.62 | 91   | 7946     | 0.781     | ug/l   | 93       |
| 90) Hexachloroethane           | 13.88 | 117  | 1951     | 0.922     | ug/l   | 78       |
| 91) 1,2-Dichlorobenzene        | 13.65 | 146  | 6683     | 1.034     | ug/l   | 96       |
| 92) 1,2-Dibromo-3-Chloropropan | 14.27 | 75   | 417      | 0.769     | ug/l   | 75       |
| 93) 1,2,4-Trichlorobenzene     | 14.90 | 180  | 2343     | 0.752     | ug/l   | 91       |
| 94) Hexachlorobutadiene        | 15.01 | 225  | 2337     | Below Cal |        | 89       |

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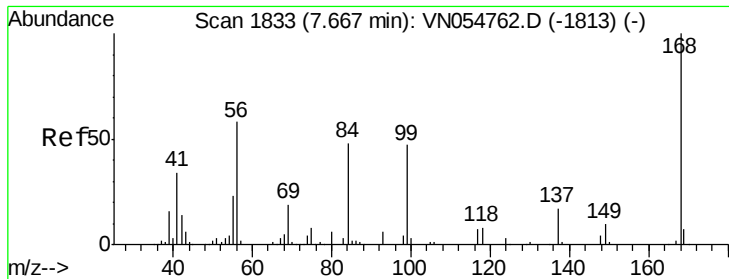
Instrument :  
MSVOA\_N  
ClientSampleId :

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| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 95) Naphthalene            | 15.14 | 128  | 5862     | 0.838 | ug/l  | 98       |
| 96) 1,2,3-Trichlorobenzene | 15.31 | 180  | 2612     | 0.830 | ug/l  | 93       |

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





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.00 min

Lab File: VN054797.D

Acq: 30 Mar 2019 12:53

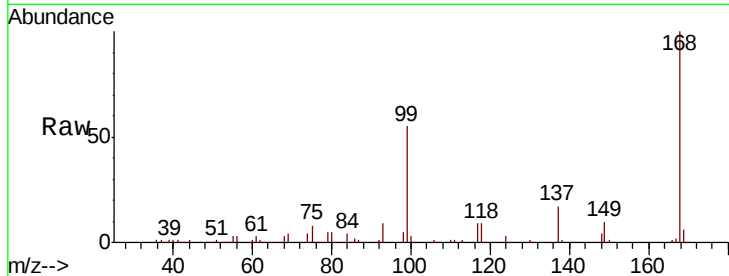
Instrument :  
MSVOA\_N  
ClientSampled :

Tot Ion:168 Resp: 388187

Ion Ratio Lower Upper

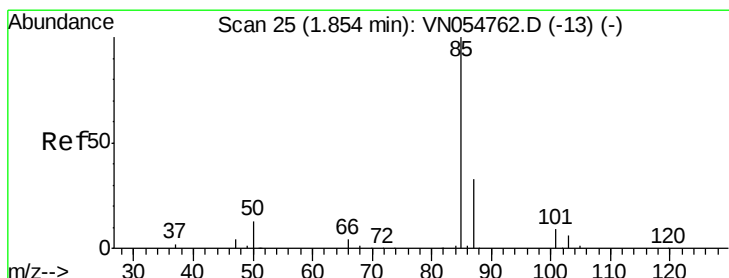
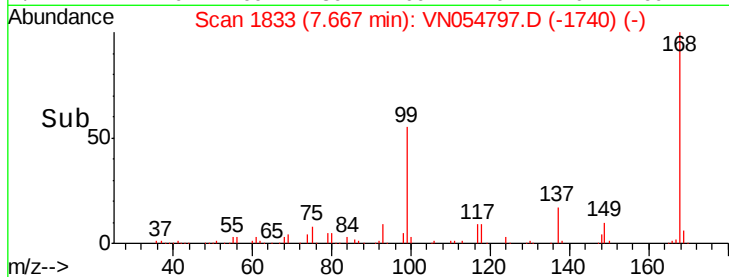
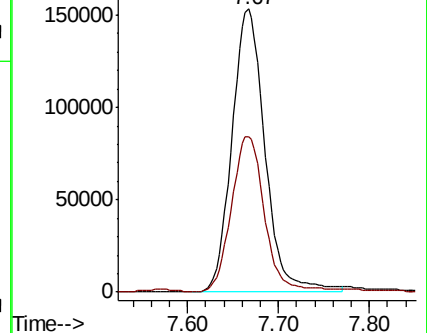
168 100

99 54.8 37.1 55.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN0



#2

Dichlorodifluoromethane

Concen: 1.114 ug/l

RT: 1.85 min Scan# 25

Delta R.T. -0.00 min

Lab File: VN054797.D

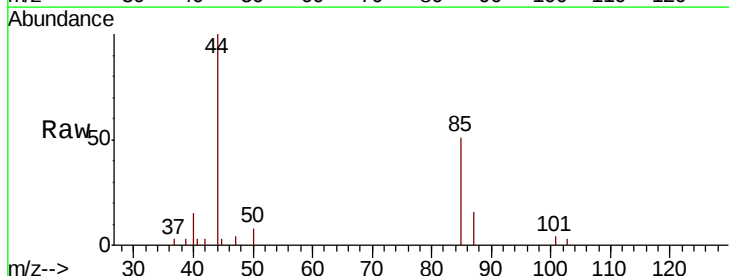
Acq: 30 Mar 2019 12:53

Tgt Ion: 85 Resp: 4374

Ion Ratio Lower Upper

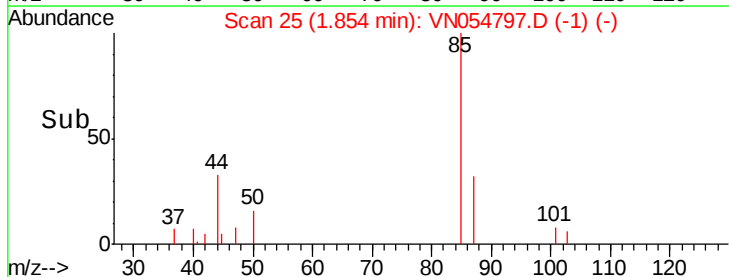
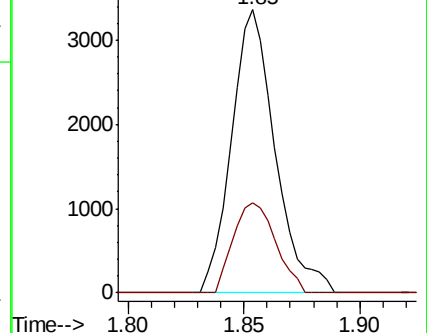
85 100

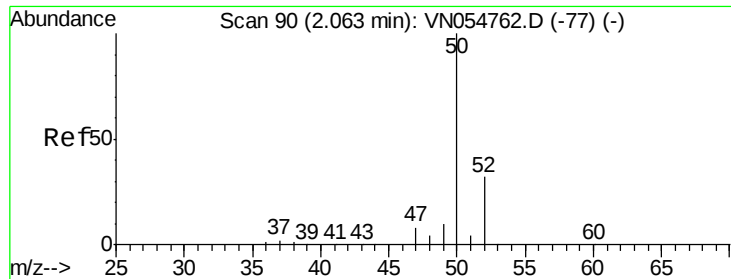
87 32.0 15.9 47.7



Abundance Ion 84.90 (84.60 to 85.60): VN0

Ion 86.90 (86.60 to 87.60): VN0





#3

Chloromethane

Concen: 1.106 ug/l

RT: 2.06 min Scan# 90

Delta R.T. -0.00 min

Lab File: VN054797.D

Acq: 30 Mar 2019 12:53

Instrument :

MSVOA\_N

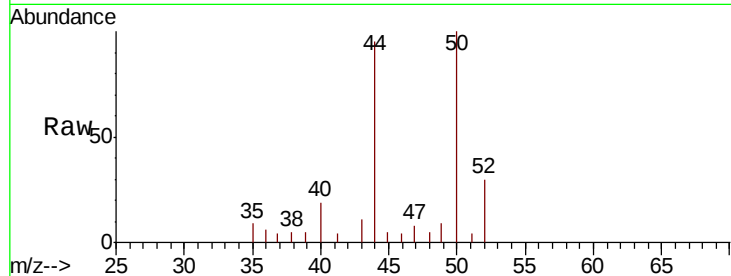
ClientSampleId :

Tot Ion: 50 Resp: 6007

Ion Ratio Lower Upper

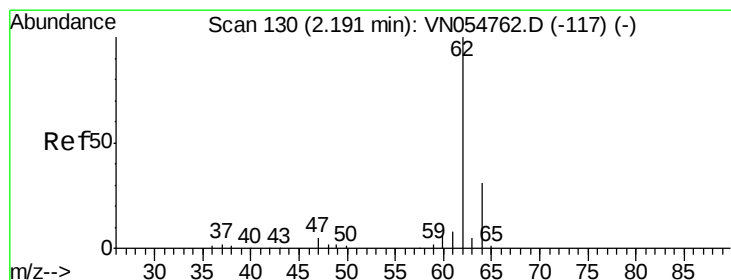
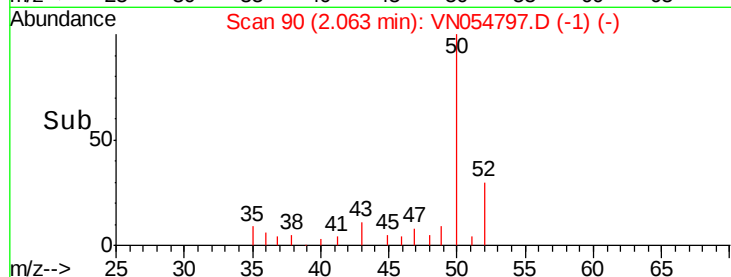
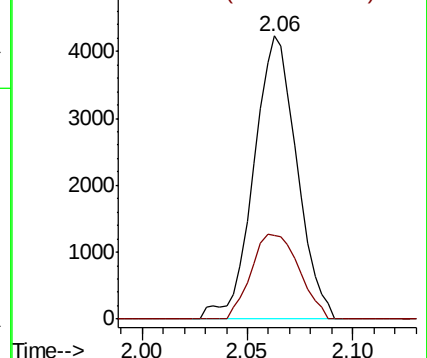
50 100

52 29.7 26.4 39.6



Abundance Ion 49.90 (49.60 to 50.60): VNC

Ion 51.90 (51.60 to 52.60): VNC



#4

Vinyl Chloride

Concen: 1.069 ug/l

RT: 2.19 min Scan# 130

Delta R.T. -0.00 min

Lab File: VN054797.D

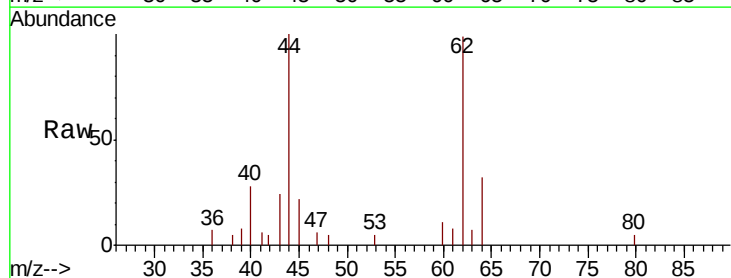
Acq: 30 Mar 2019 12:53

Tgt Ion: 62 Resp: 5211

Ion Ratio Lower Upper

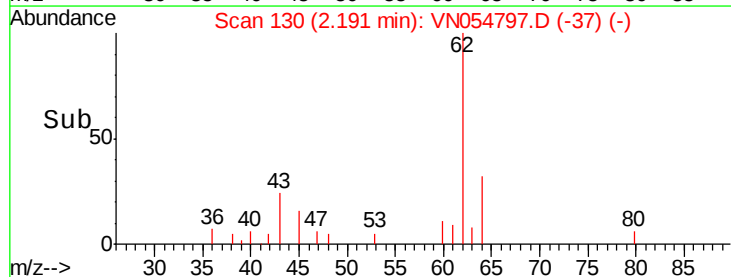
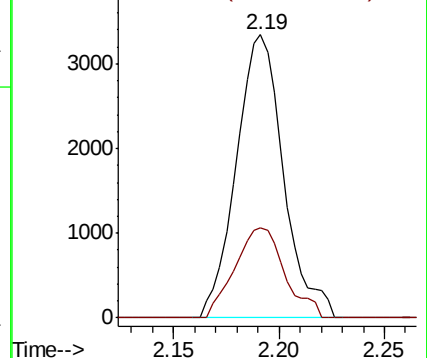
62 100

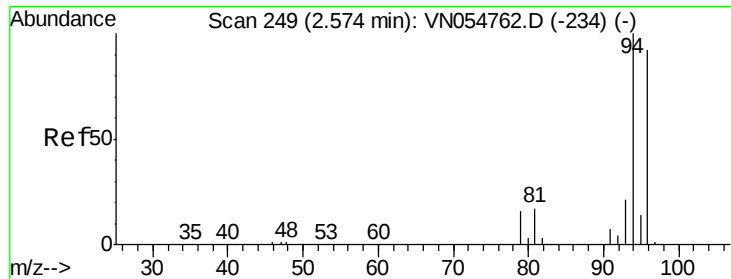
64 31.8 25.5 38.3



Abundance Ion 61.90 (61.60 to 62.60): VNC

Ion 63.90 (63.60 to 64.60): VNC

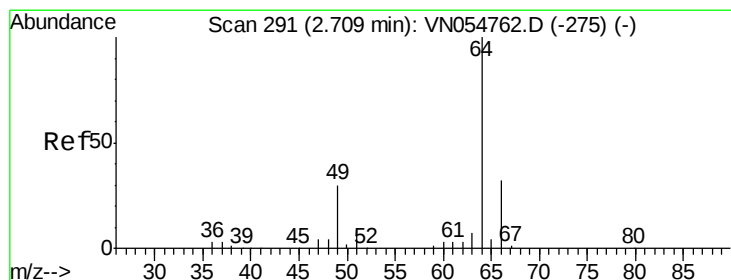
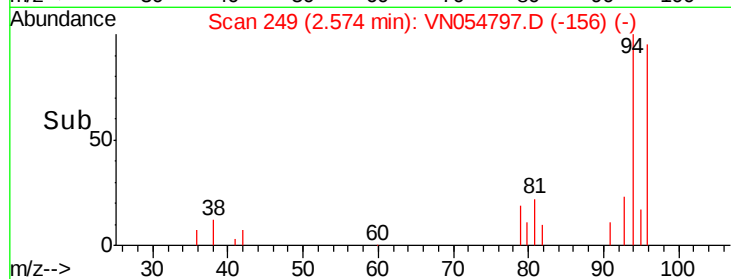
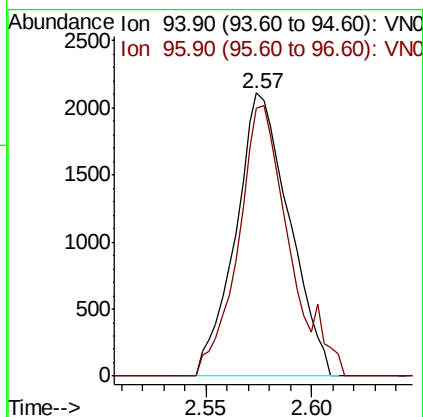
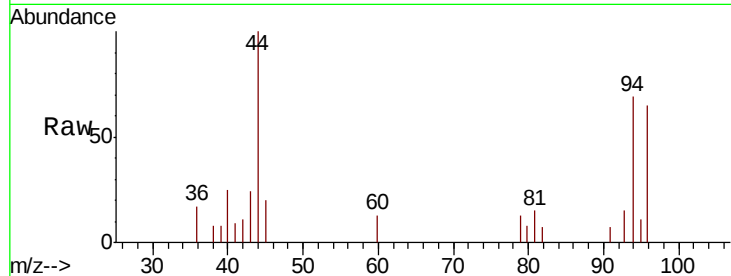




#5  
Bromomethane  
Concen: Below Cal  
RT: 2.57 min Scan# 249  
Delta R.T. -0.00 min  
Lab File: VN054797.D  
Acq: 30 Mar 2019 12:53

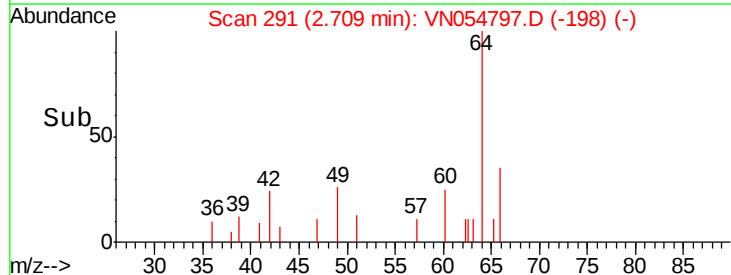
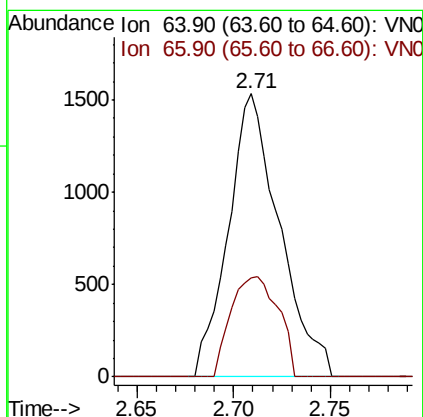
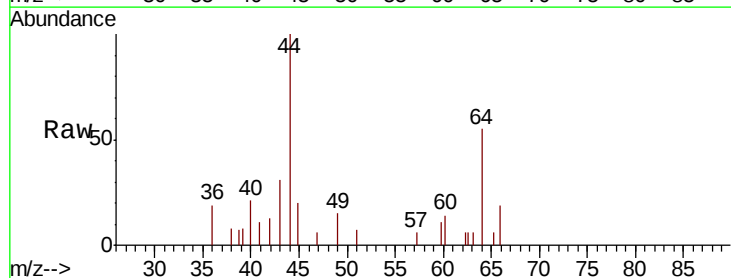
Instrument :  
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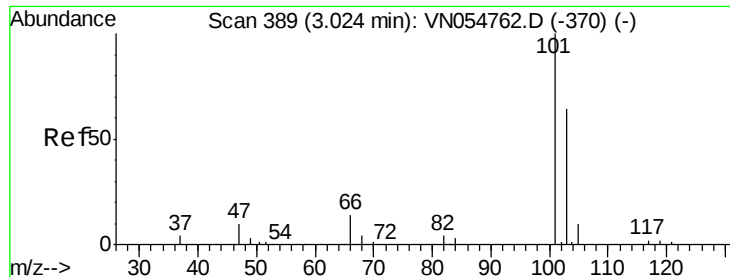
Tot Ion: 94 Resp: 3734  
Ion Ratio Lower Upper  
94 100  
96 94.6 77.0 115.4



#6  
Chloroethane  
Concen: 1.035 ug/l  
RT: 2.71 min Scan# 291  
Delta R.T. -0.00 min  
Lab File: VN054797.D  
Acq: 30 Mar 2019 12:53

Tgt Ion: 64 Resp: 2818  
Ion Ratio Lower Upper  
64 100  
66 34.9 25.7 38.5



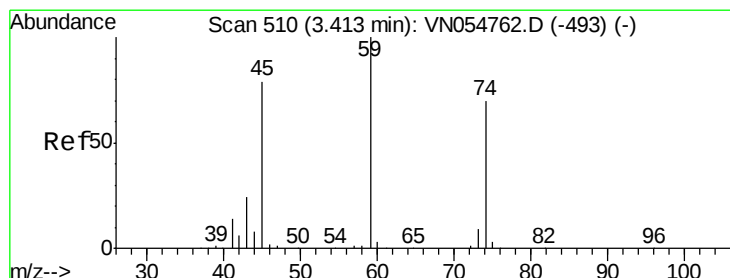
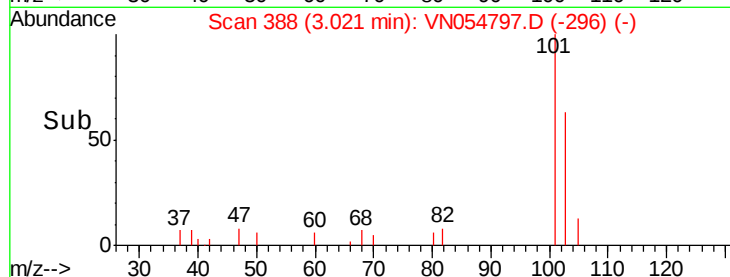
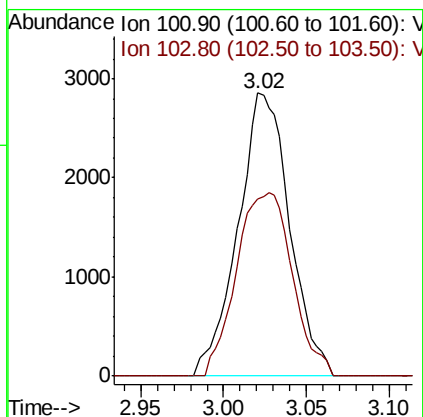
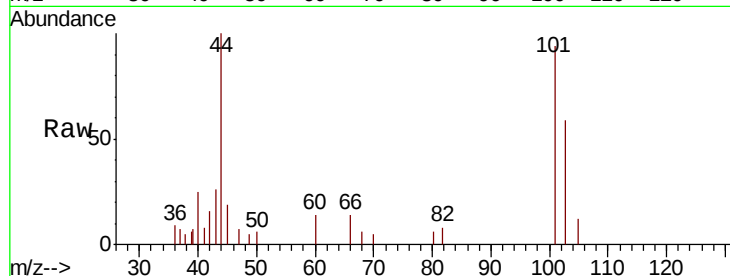


#7

Trichlorofluoromethane  
Concen: 1.032 ug/l  
RT: 3.02 min Scan# 388  
Delta R.T. -0.00 min  
Lab File: VN054797.D  
Acq: 30 Mar 2019 12:53

Instrument :  
MSVOA\_N  
ClientSampleId :

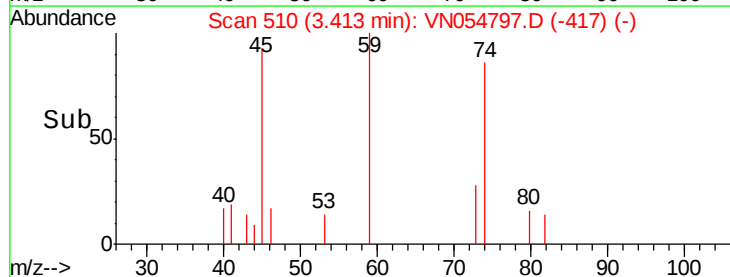
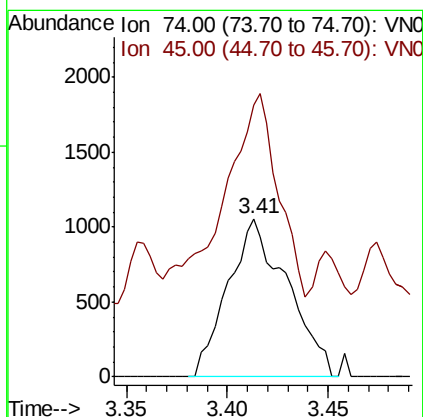
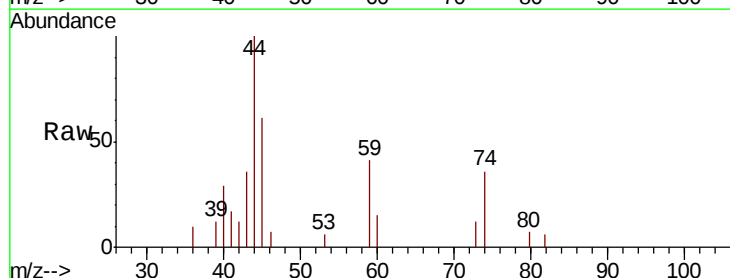
Tot Ion:101 Resp: 6188  
Ion Ratio Lower Upper  
101 100  
103 62.6 51.4 77.2

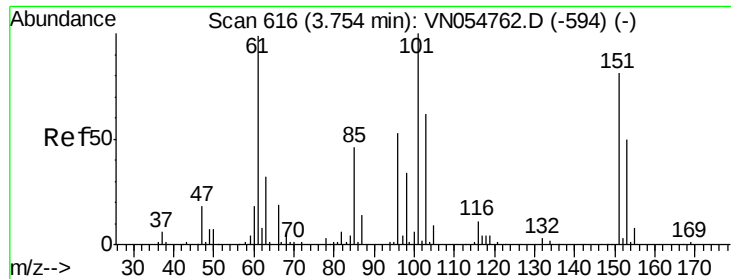


#8

Diethyl Ether  
Concen: 1.122 ug/l  
RT: 3.41 min Scan# 510  
Delta R.T. -0.00 min  
Lab File: VN054797.D  
Acq: 30 Mar 2019 12:53

Tgt Ion: 74 Resp: 2165  
Ion Ratio Lower Upper  
74 100  
45 116.5 43.1 129.4





#9

1,1,2-Trichlorotrifluoroethane

Concen: 1.023 ug/l

RT: 3.76 min Scan# 617

Delta R.T. 0.00 min

Lab File: VN054797.D

Acq: 30 Mar 2019 12:53

Instrument :

MSVOA\_N

ClientSampleId :

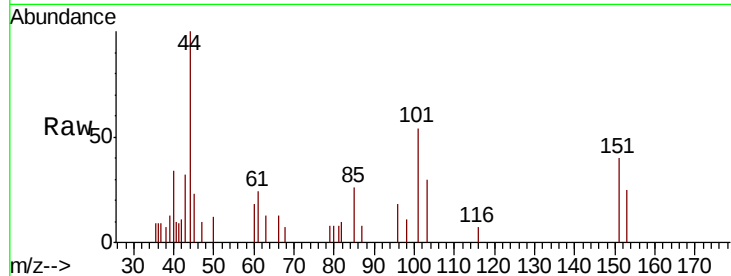
Tot Ion:101 Resp: 3227

Ion Ratio Lower Upper

101 100

85 37.7 32.4 48.6

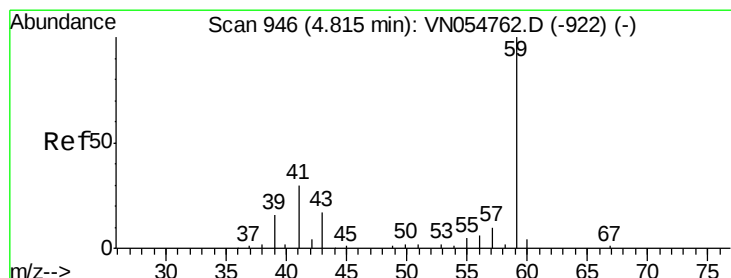
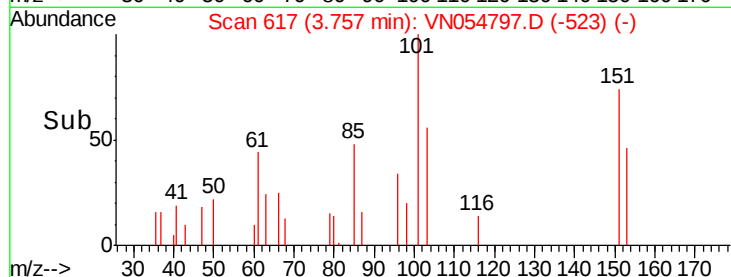
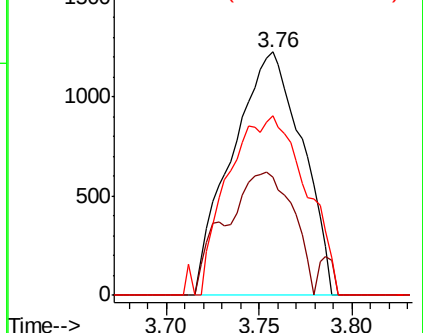
151 81.5 68.2 102.2



Abundance Ion 100.90 (100.60 to 101.60): V

Ion 84.90 (84.60 to 85.60): VN0

Ion 150.80 (150.50 to 151.50): V



#11

Tert butyl alcohol

Concen: 2.142 ug/l

RT: 4.82 min Scan# 948

Delta R.T. 0.01 min

Lab File: VN054797.D

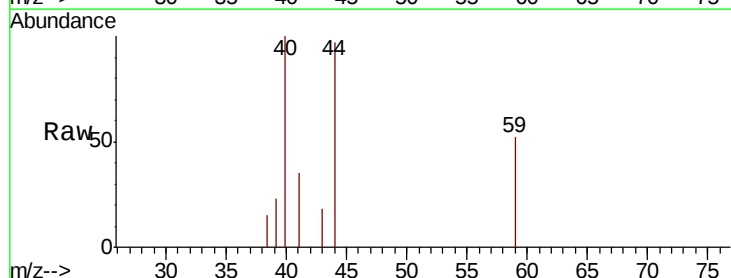
Acq: 30 Mar 2019 12:53

Tgt Ion: 59 Resp: 584

Ion Ratio Lower Upper

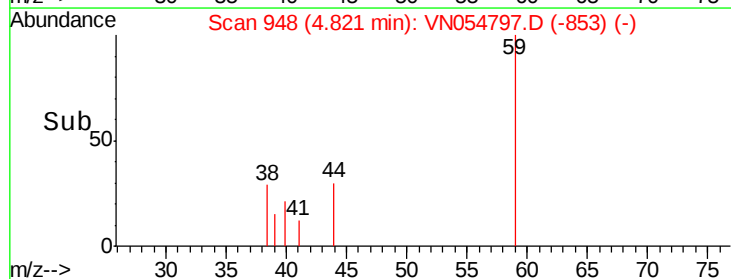
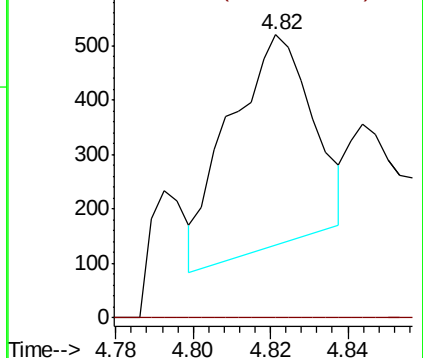
59 100

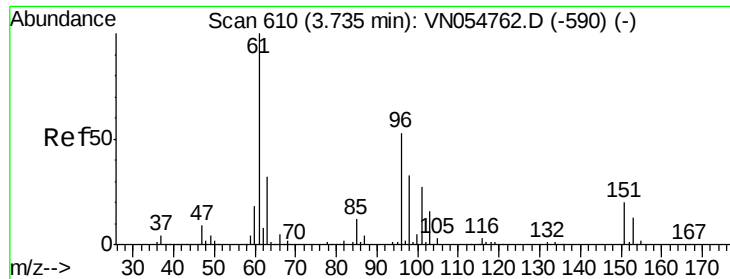
57 0.0 9.0 13.6#



Abundance Ion 59.00 (58.70 to 59.70): VN0

Ion 57.00 (56.70 to 57.70): VN0





#12

1,1-Dichloroethene

Concen: 1.119 ug/l

RT: 3.72 min Scan# 607

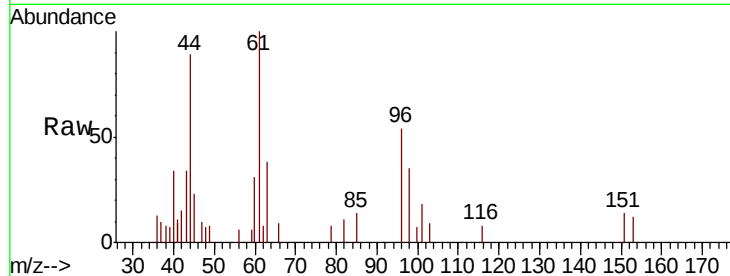
Delta R.T. -0.01 min

Lab File: VN054797.D

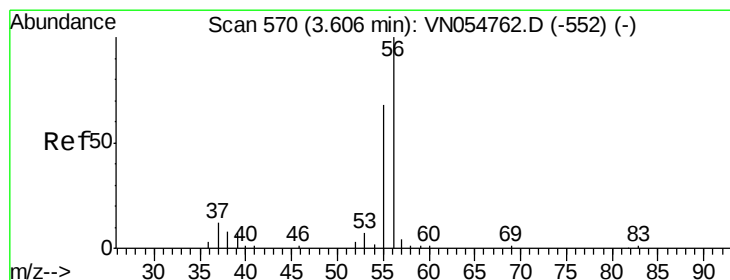
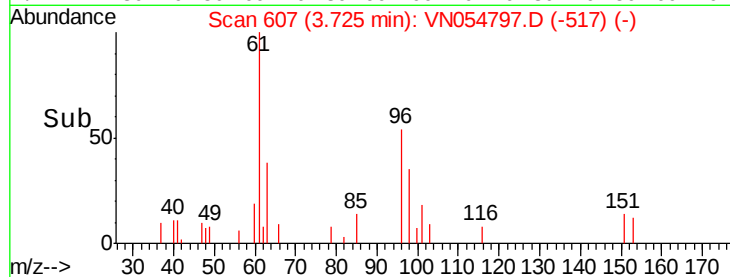
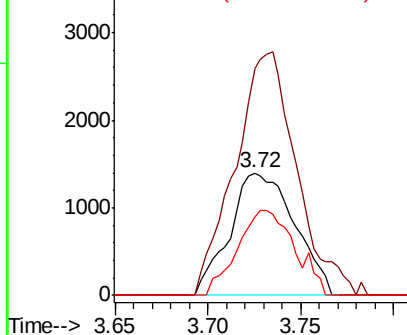
Acq: 30 Mar 2019 12:53

Instrument :  
MSVOA\_N  
ClientSampled :

Tot Ion: 96 Resp: 3414  
Ion Ratio Lower Upper  
96 100  
61 185.0 116.5 174.7#  
98 64.0 51.0 76.4



Abundance Ion 95.90 (95.60 to 96.60): VN0  
Ion 60.90 (60.60 to 61.60): VN0  
Ion 97.90 (97.60 to 98.60): VN0



#13

Acrolein

Concen: 0.406 ug/l

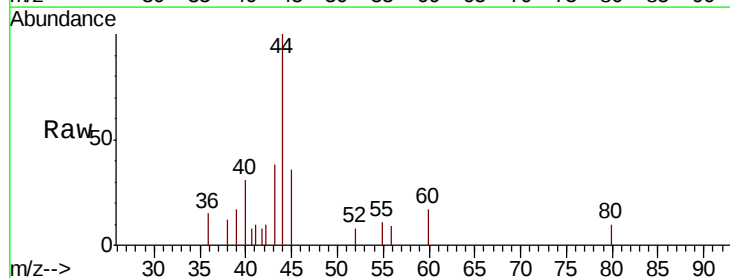
RT: 3.62 min Scan# 575

Delta R.T. 0.02 min

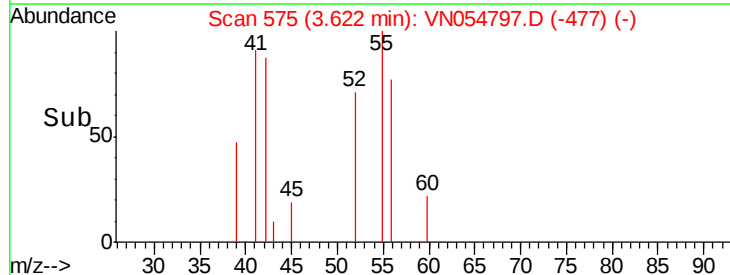
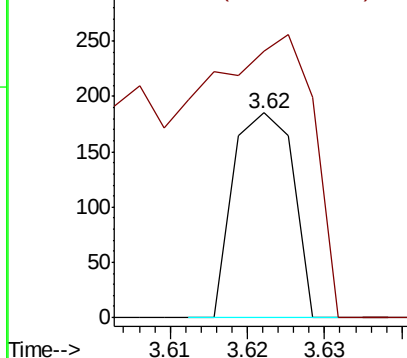
Lab File: VN054797.D

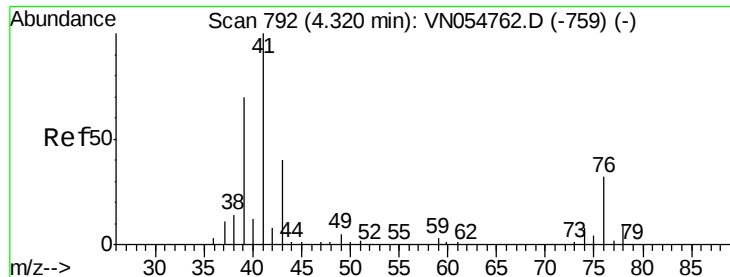
Acq: 30 Mar 2019 12:53

Tgt Ion: 56 Resp: 99  
Ion Ratio Lower Upper  
56 100  
55 222.2 56.7 85.1#



Abundance Ion 56.00 (55.70 to 56.70): VN0  
Ion 55.00 (54.70 to 55.70): VN0

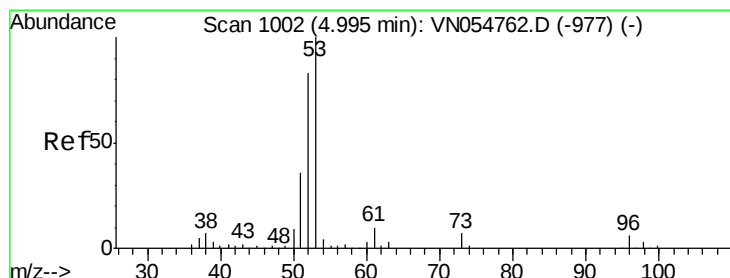
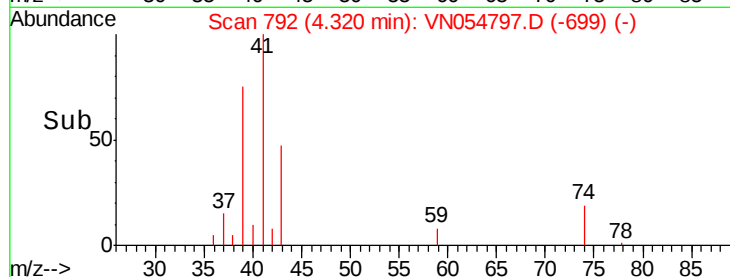
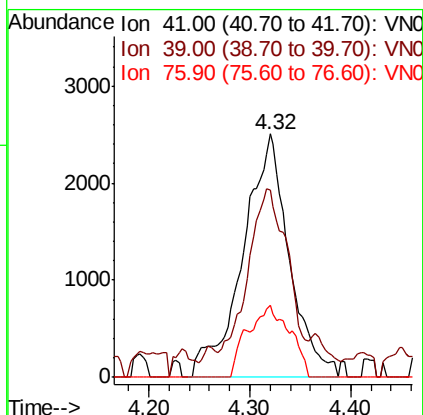
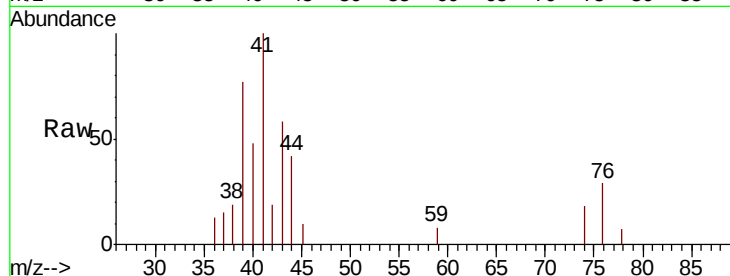




#14  
Allvl chloride  
Concen: 1.063 ug/l  
RT: 4.32 min Scan# 792  
Delta R.T. -0.00 min  
Lab File: VN054797.D  
Acq: 30 Mar 2019 12:53

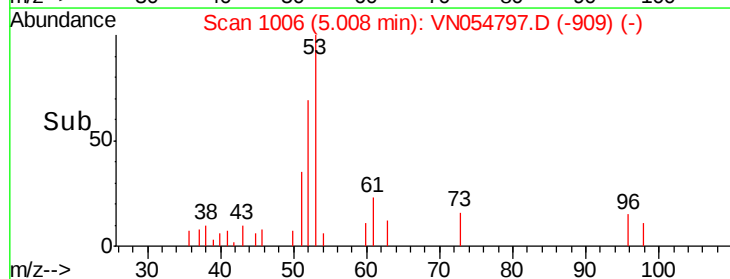
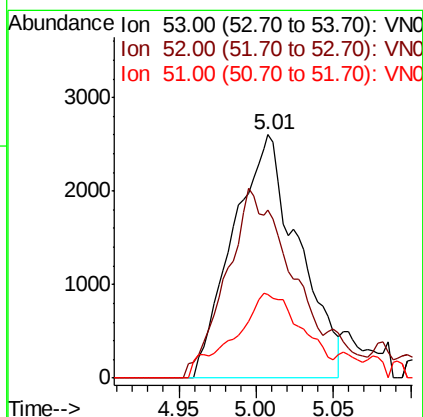
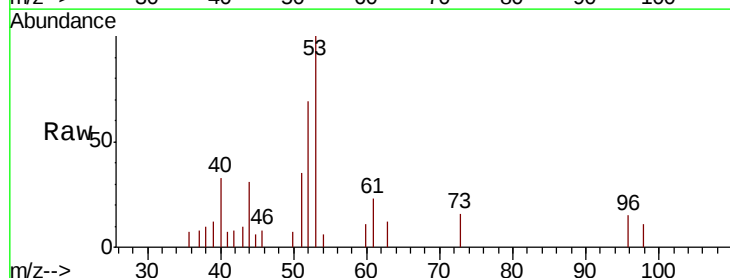
Instrument :  
MSVOA\_N  
ClientSampleId :

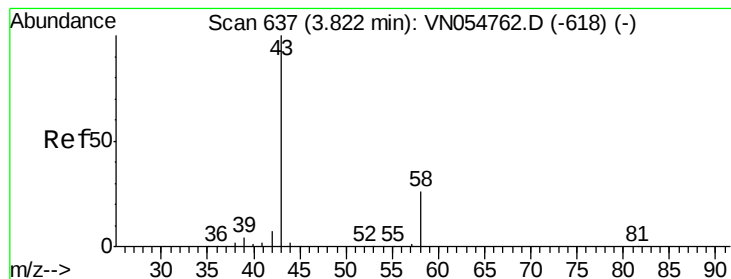
Tot Ion: 41 Resp: 7989  
Ion Ratio Lower Upper  
41 100  
39 58.2 58.2 87.4#  
76 26.7 31.7 47.5#



#15  
Acrylonitrile  
Concen: 5.072 ug/l  
RT: 5.01 min Scan# 1006  
Delta R.T. 0.01 min  
Lab File: VN054797.D  
Acq: 30 Mar 2019 12:53

Tgt Ion: 53 Resp: 7686  
Ion Ratio Lower Upper  
53 100  
52 76.0 66.4 99.6  
51 36.7 29.6 44.4





#16

Acetone

Concen: 6.081 ug/l

RT: 3.82 min Scan# 638

Delta R.T. 0.00 min

Lab File: VN054797.D

Acq: 30 Mar 2019 12:53

Instrument :

MSVOA\_N

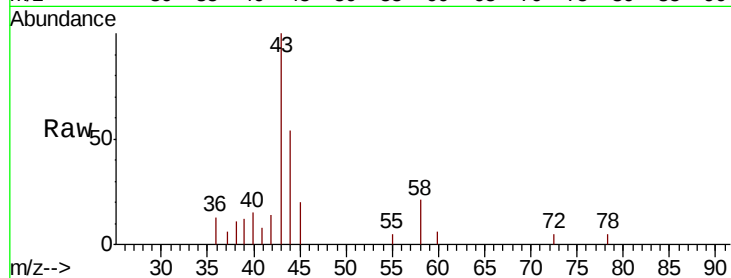
ClientSampled :

Tot Ion: 43 Resp: 7588

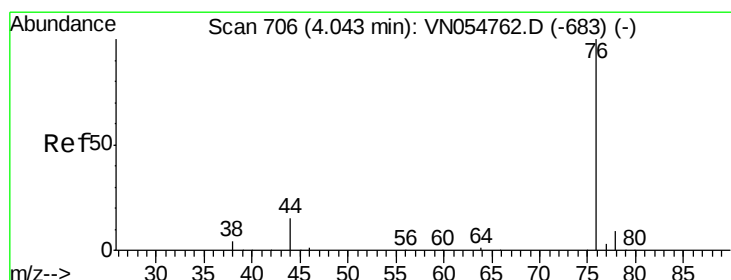
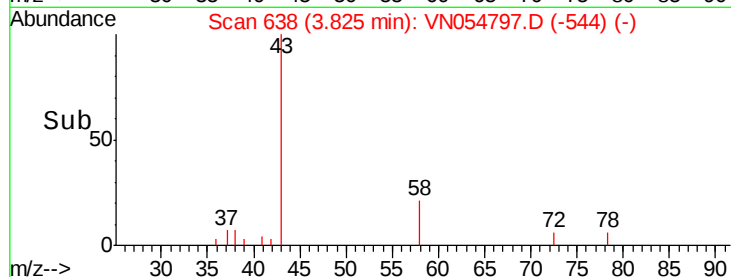
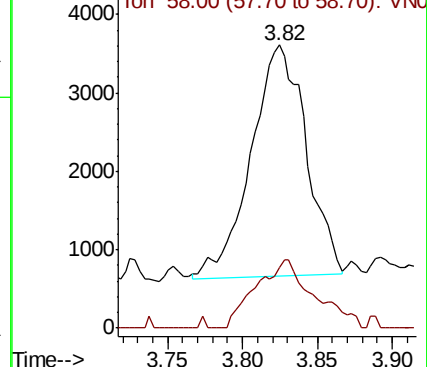
Ion Ratio Lower Upper

43 100

58 26.3 29.9 44.9#



Abundance Ion 43.00 (42.70 to 43.70): VN054797.D (-618) (-)



#17

Carbon Disulfide

Concen: 1.012 ug/l

RT: 4.04 min Scan# 704

Delta R.T. -0.01 min

Lab File: VN054797.D

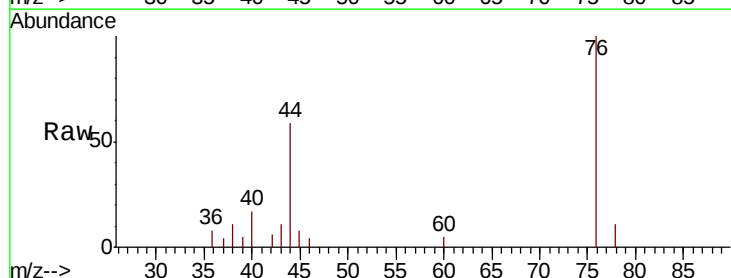
Acq: 30 Mar 2019 12:53

Tgt Ion: 76 Resp: 10016

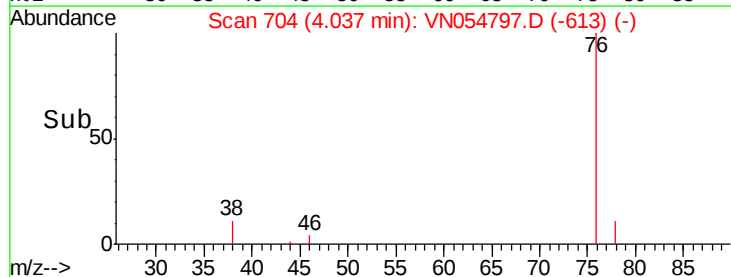
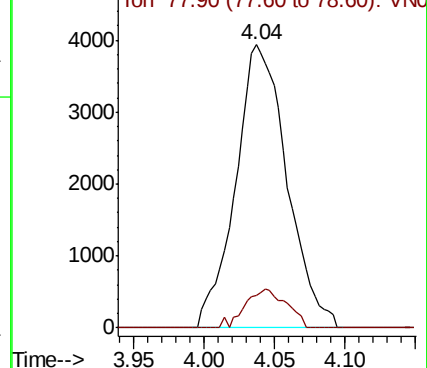
Ion Ratio Lower Upper

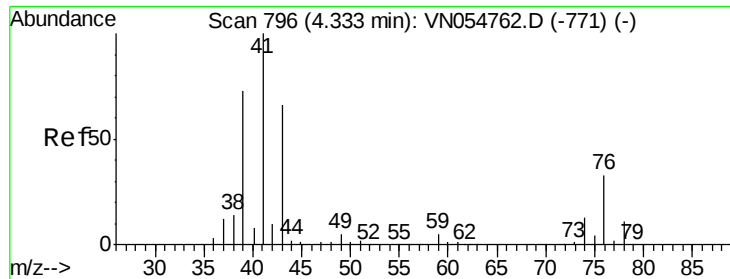
76 100

78 11.4 7.5 11.3#



Abundance Ion 75.90 (75.60 to 76.60): VN054797.D (-683) (-)

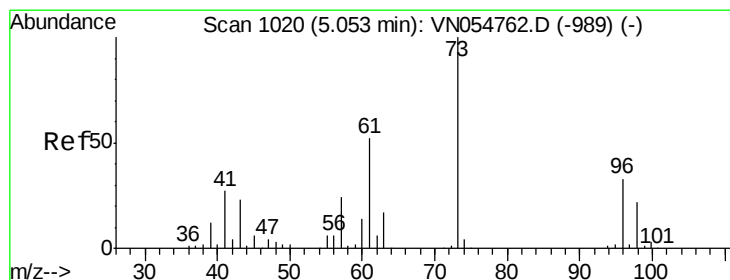
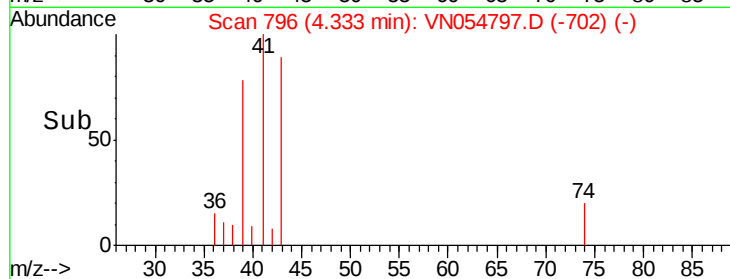
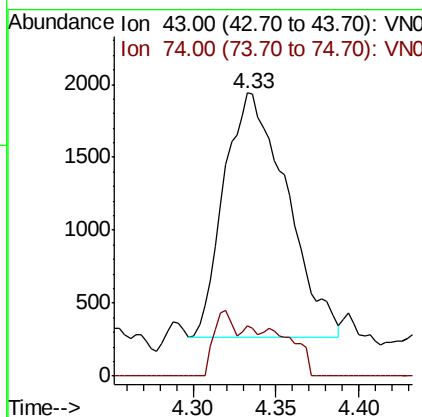
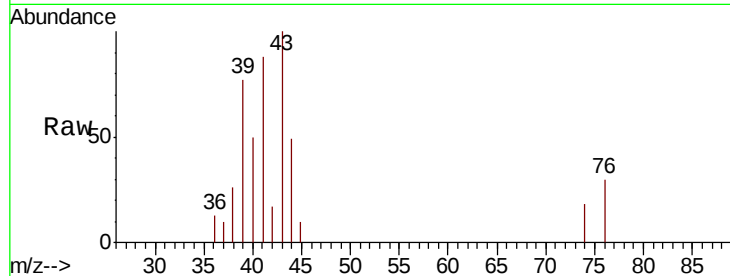




#18  
Methyl Acetate  
Concen: 0.447 ug/l  
RT: 4.33 min Scan# 796  
Delta R.T. 0.00 min  
Lab File: VN054797.D  
Acq: 30 Mar 2019 12:53

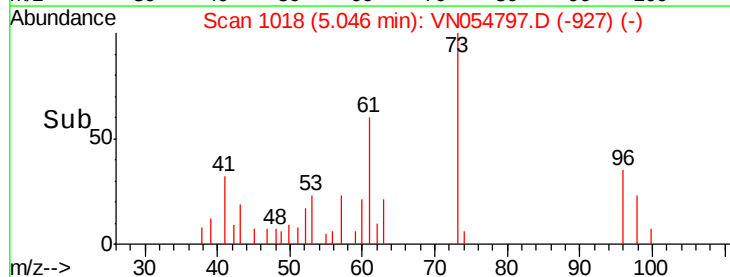
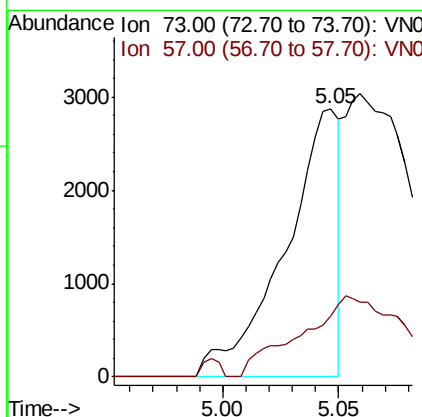
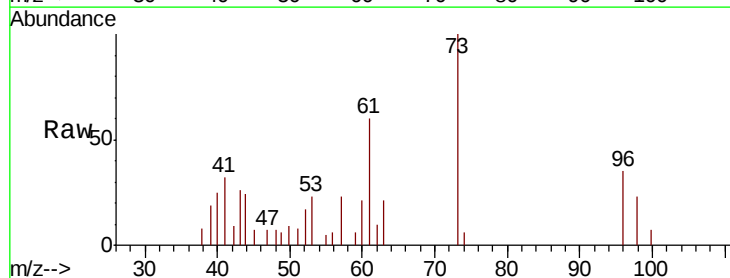
Instrument :  
MSVOA\_N  
ClientSampled :

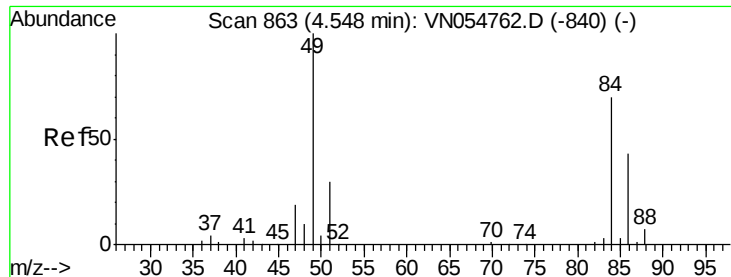
Tot Ion: 43 Resp: 4415  
Ion Ratio Lower Upper  
43 100  
74 8.9 20.8 31.2#



#19  
Methyl tert-butyl Ether  
Concen: 0.436 ug/l  
RT: 5.05 min Scan# 1018  
Delta R.T. -0.01 min  
Lab File: VN054797.D  
Acq: 30 Mar 2019 12:53

Tgt Ion: 73 Resp: 4649  
Ion Ratio Lower Upper  
73 100  
57 22.7 16.8 25.2

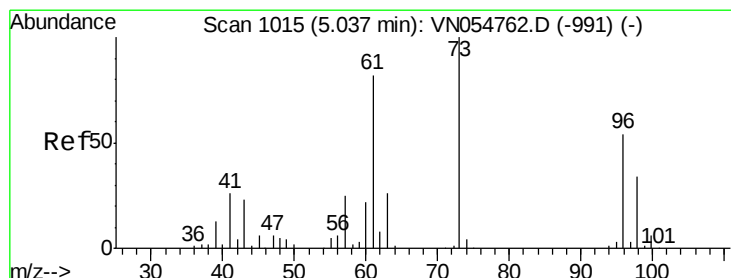
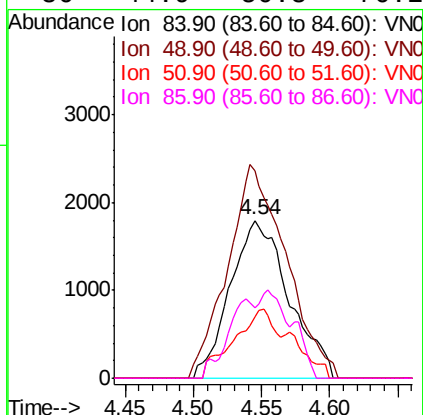
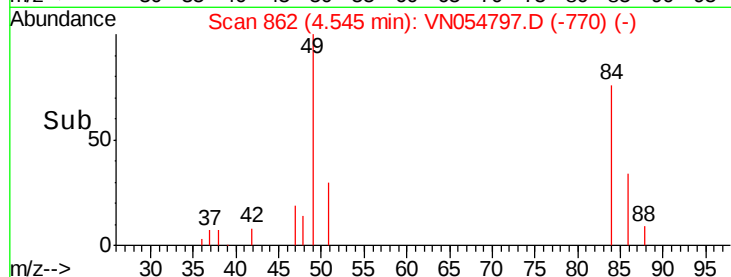
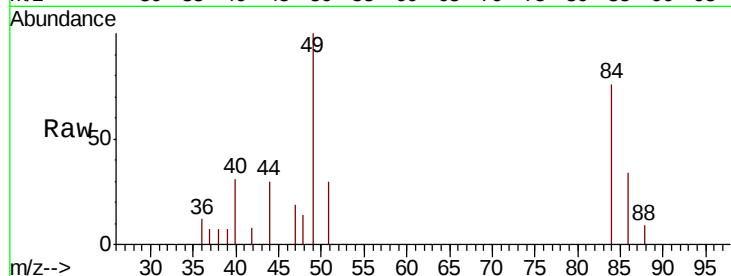




#20  
Methvlene Chloride  
Concen: 1.219 ug/l  
RT: 4.54 min Scan# 862  
Delta R.T. -0.00 min  
Lab File: VN054797.D  
Acq: 30 Mar 2019 12:53

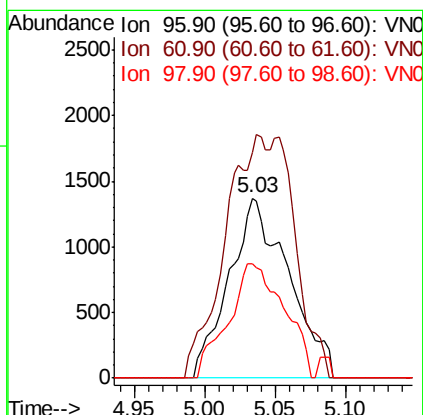
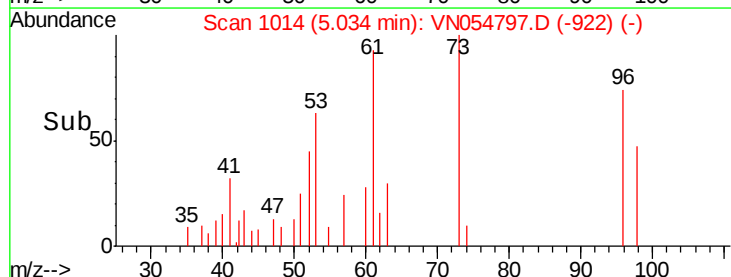
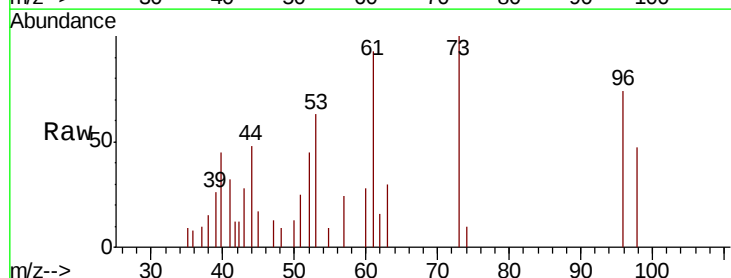
Instrument :  
MSVOA\_N  
ClientSampleId :

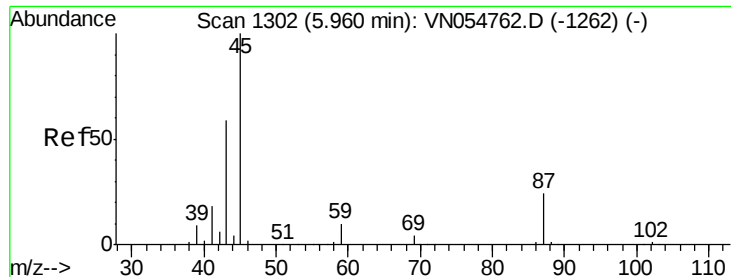
Tot Ion: 84 Resp: 5365  
Ion Ratio Lower Upper  
84 100  
49 131.5 89.7 134.5  
51 38.9 28.2 42.4  
86 44.9 50.8 76.2#



#21  
trans-1,2-Dichloroethene  
Concen: 1.011 ug/l  
RT: 5.03 min Scan# 1014  
Delta R.T. -0.00 min  
Lab File: VN054797.D  
Acq: 30 Mar 2019 12:53

Tgt Ion: 96 Resp: 4051  
Ion Ratio Lower Upper  
96 100  
61 125.3 102.8 154.2  
98 63.1 50.0 75.0





#22

Diisopropyl ether

Concen: 0.945 ug/l

RT: 5.96 min Scan# 1302

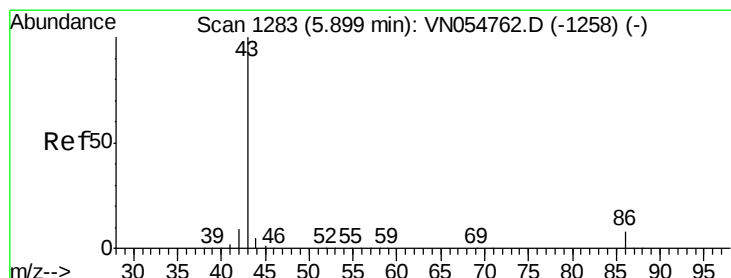
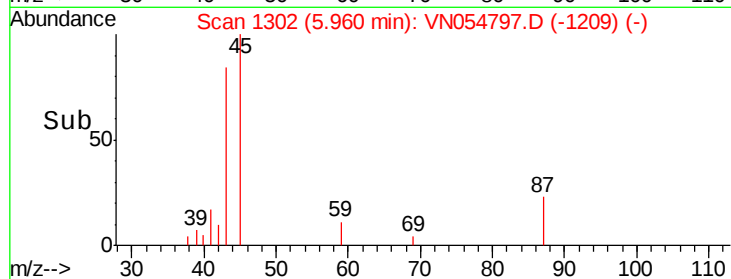
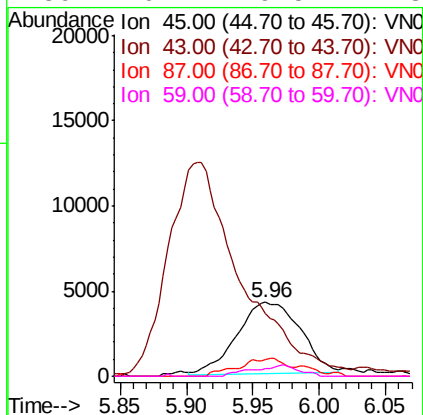
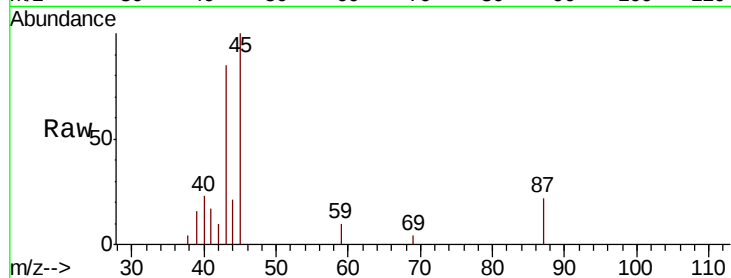
Delta R.T. -0.00 min

Lab File: VN054797.D

Acq: 30 Mar 2019 12:53

Instrument :  
MSVOA\_N  
ClientSampleId :

|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 45    | Resp: | 14055 |
| Ion      | Ratio | Lower | Upper |
| 45       | 100   |       |       |
| 43       | 75.5  | 48.2  | 72.2# |
| 87       | 23.5  | 24.9  | 37.3# |
| 59       | 10.7  | 9.5   | 14.3  |



#23

Vinyl Acetate

Concen: 4.488 ug/l

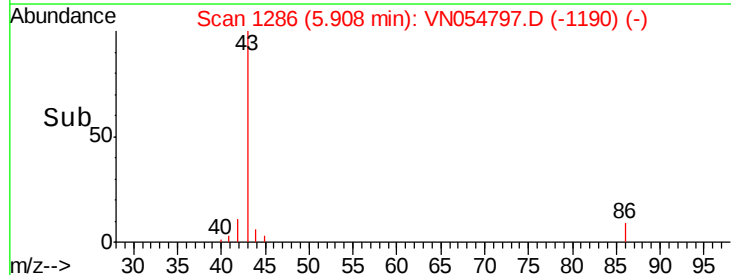
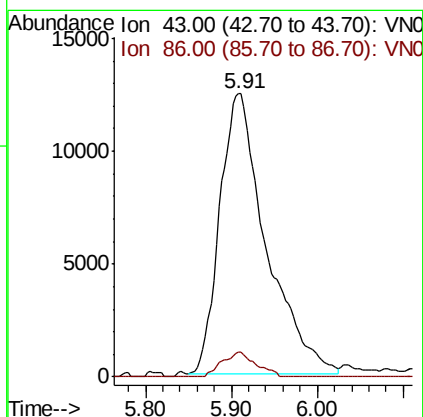
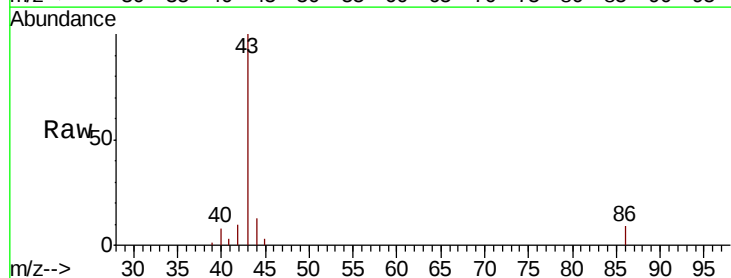
RT: 5.91 min Scan# 1286

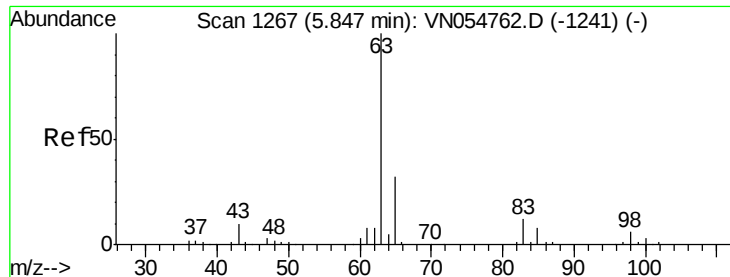
Delta R.T. 0.01 min

Lab File: VN054797.D

Acq: 30 Mar 2019 12:53

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 43    | Resp: | 46425 |
| Ion      | Ratio | Lower | Upper |
| 43       | 100   |       |       |
| 86       | 8.9   | 9.1   | 13.7# |

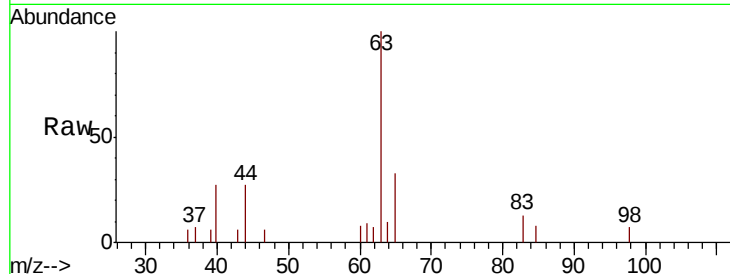




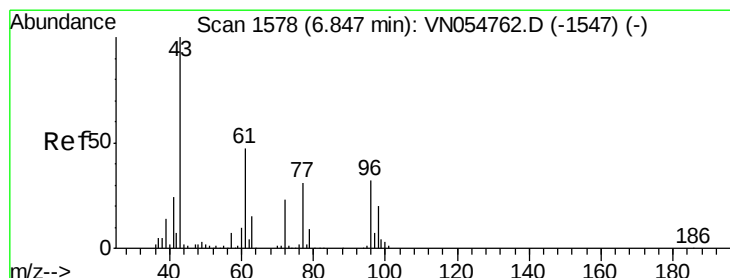
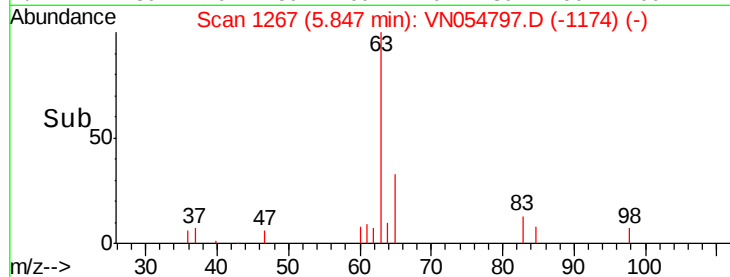
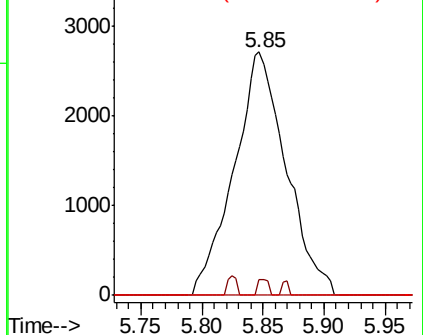
#24  
 1,1-Dichloroethane  
 Concen: 1.011 ug/l  
 RT: 5.85 min Scan# 1267  
 Delta R.T. -0.00 min  
 Lab File: VN054797.D  
 Acq: 30 Mar 2019 12:53

Instrument :  
 MSVOA\_N  
 ClientSampleId :

Tot Ion: 63 Resp: 8016  
 Ion Ratio Lower Upper  
 63 100  
 98 6.6 3.5 10.5  
 100 0.0 2.0 6.0#

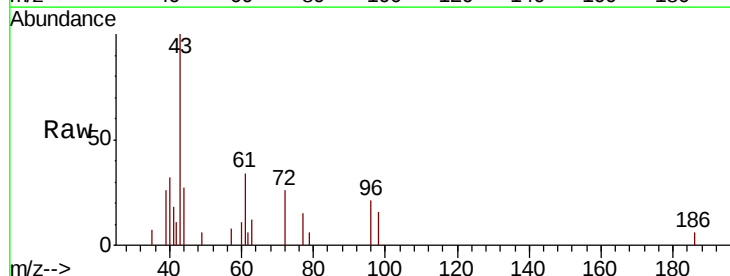


Abundance Ion 62.90 (62.60 to 63.60): VN0  
 Ion 97.90 (97.60 to 98.60): VN0  
 Ion 99.90 (99.60 to 100.60): VN0

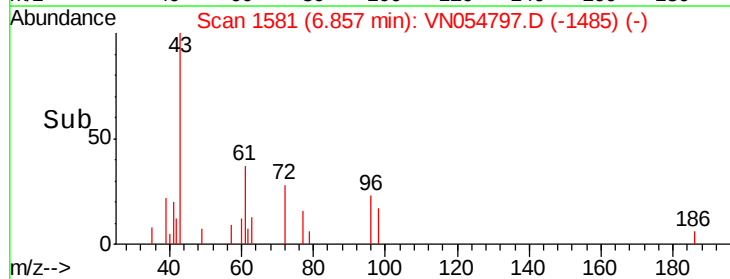
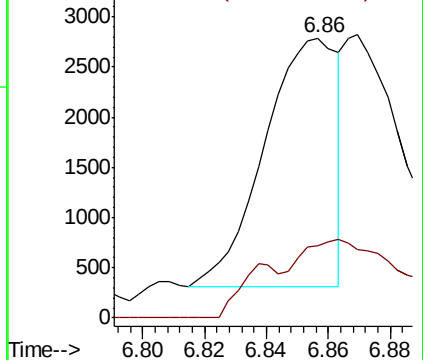


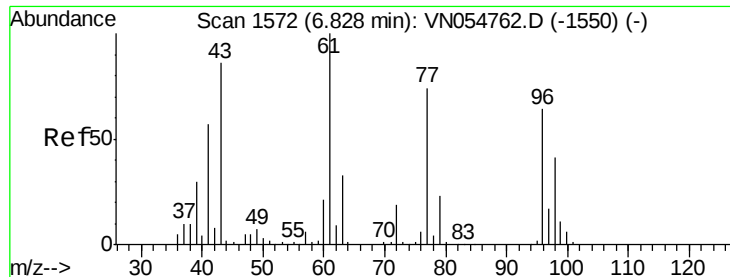
#25  
 2-Butanone  
 Concen: 2.196 ug/l  
 RT: 6.86 min Scan# 1581  
 Delta R.T. 0.01 min  
 Lab File: VN054797.D  
 Acq: 30 Mar 2019 12:53

Tgt Ion: 43 Resp: 4051  
 Ion Ratio Lower Upper  
 43 100  
 72 28.9 23.0 34.6



Abundance Ion 43.00 (42.70 to 43.70): VN0  
 Ion 72.00 (71.70 to 72.70): VN0





#27

cis-1,2-Dichloroethene

Concen: 0.961 ug/l

RT: 6.83 min Scan# 1572

Delta R.T. -0.00 min

Lab File: VN054797.D

Acq: 30 Mar 2019 12:53

Instrument :  
MSVOA\_N  
ClientSampleId :

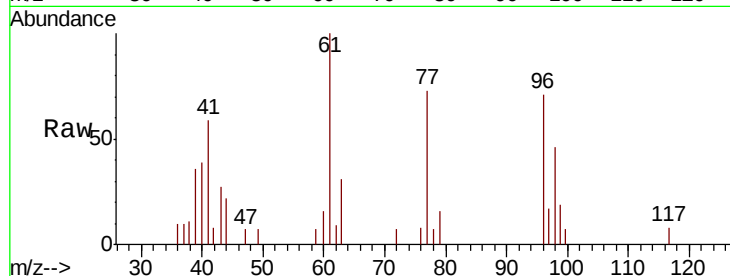
Tot Ion: 96 Resp: 4349

Ion Ratio Lower Upper

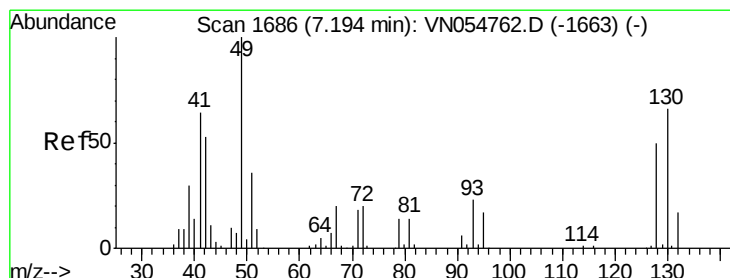
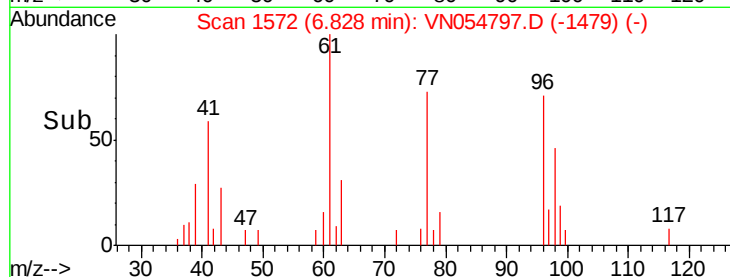
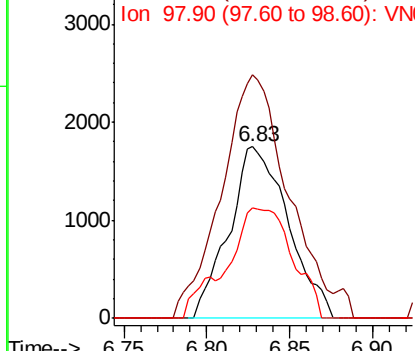
96 100

61 159.0 0.0 273.0

98 71.9 0.0 130.6



Abundance Ion 95.90 (95.60 to 96.60): VN0  
Ion 60.90 (60.60 to 61.60): VN0  
Ion 97.90 (97.60 to 98.60): VN0



#28

Bromochloromethane

Concen: 1.107 ug/l

RT: 7.20 min Scan# 1687

Delta R.T. 0.00 min

Lab File: VN054797.D

Acq: 30 Mar 2019 12:53

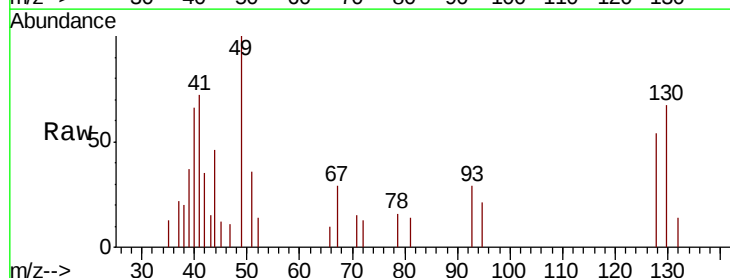
Tgt Ion: 49 Resp: 4388

Ion Ratio Lower Upper

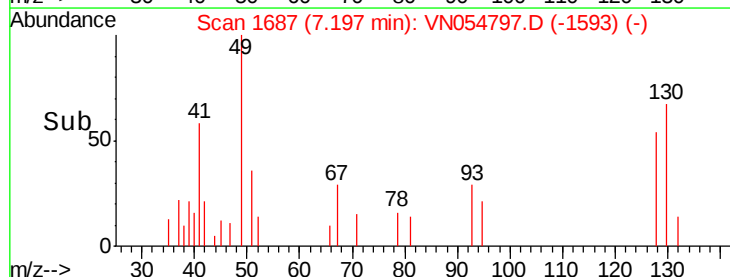
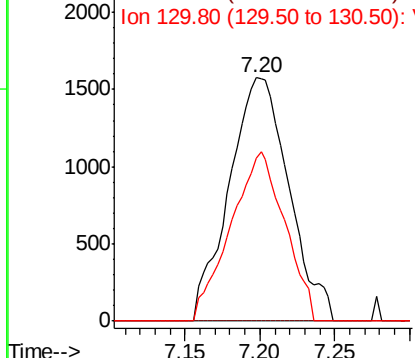
49 100

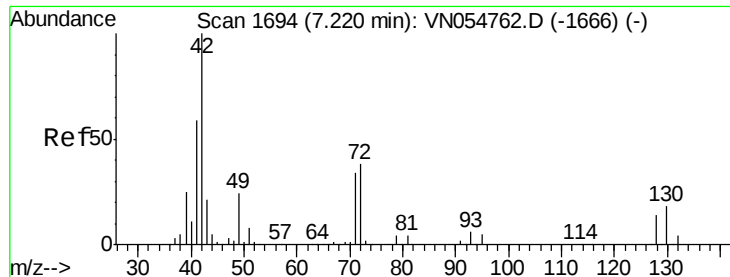
129 0.0 0.0 4.6

130 62.9 76.7 115.1#



Abundance Ion 48.90 (48.60 to 49.60): VN0  
Ion 128.80 (128.50 to 129.50): V  
Ion 129.80 (129.50 to 130.50): V





#29

Tetrahydrofuran

Concen: 5.627 ug/l

RT: 7.23 min Scan# 1698

Delta R.T. 0.01 min

Lab File: VN054797.D

Acq: 30 Mar 2019 12:53

Instrument :

MSVOA\_N

ClientSampled :

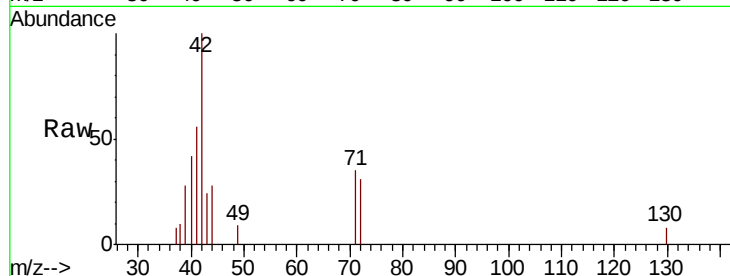
Tot Ion: 42 Resp: 7209

Ion Ratio Lower Upper

42 100

72 32.4 37.8 56.6#

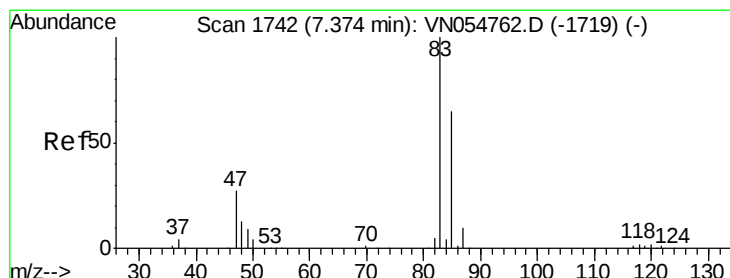
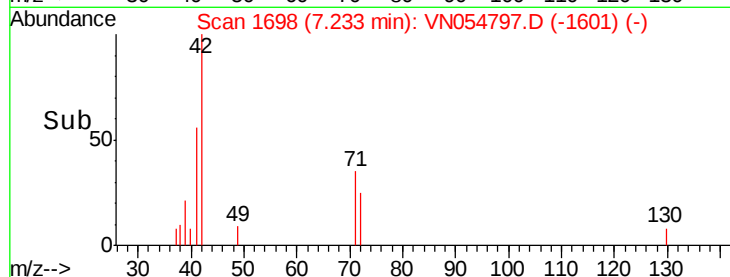
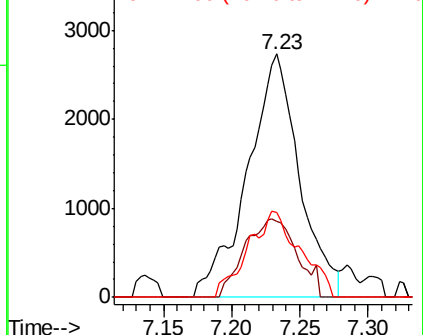
71 35.4 36.2 54.2#



Abundance Ion 42.00 (41.70 to 42.70): VN0

Ion 72.00 (71.70 to 72.70): VN0

Ion 71.00 (70.70 to 71.70): VN0



#30

Chloroform

Concen: 1.063 ug/l

RT: 7.37 min Scan# 1742

Delta R.T. -0.00 min

Lab File: VN054797.D

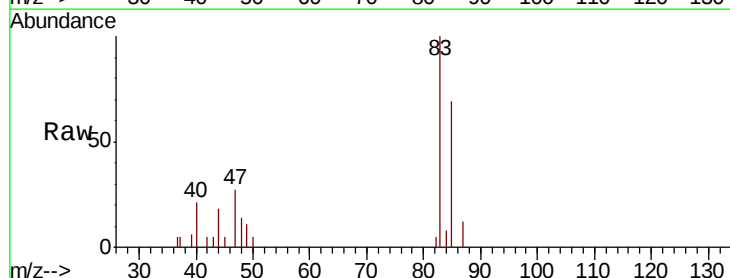
Acq: 30 Mar 2019 12:53

Tgt Ion: 83 Resp: 8037

Ion Ratio Lower Upper

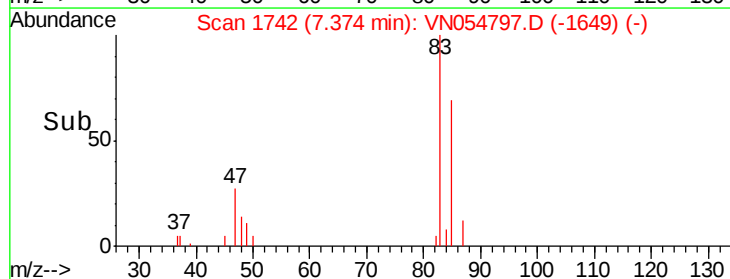
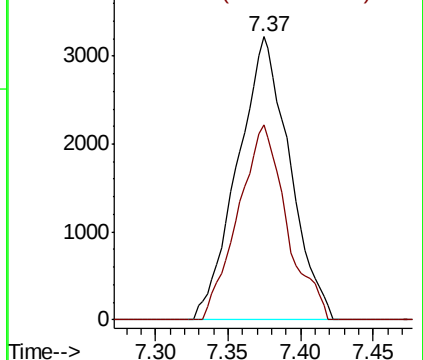
83 100

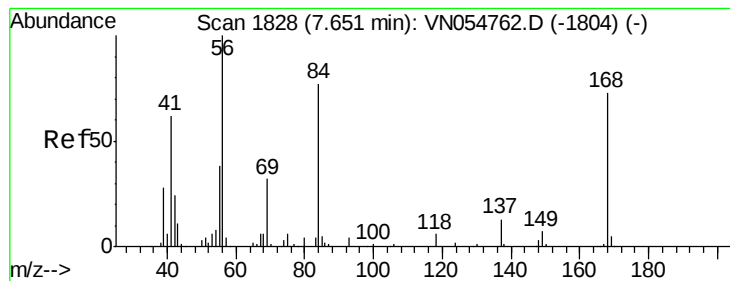
85 69.0 52.2 78.4



Abundance Ion 82.90 (82.60 to 83.60): VN0

Ion 84.90 (84.60 to 85.60): VN0





#31

Cyclohexane

Concen: Below Cal

RT: 7.65 min Scan# 1829

Delta R.T. 0.00 min

Lab File: VN054797.D

Acq: 30 Mar 2019 12:53

Instrument :  
MSVOA\_N  
ClientSampleId :

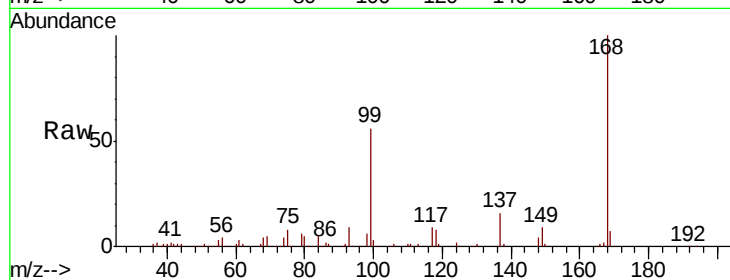
Tot Ion: 56 Resp: 9400

Ion Ratio Lower Upper

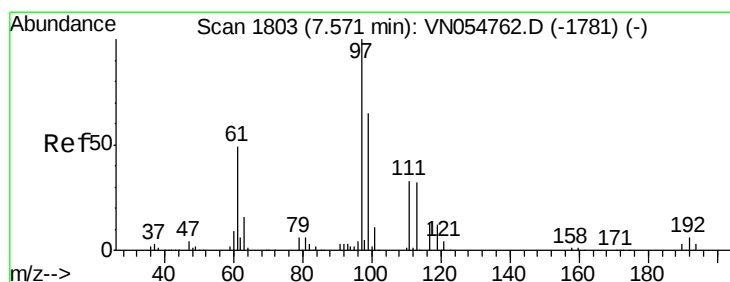
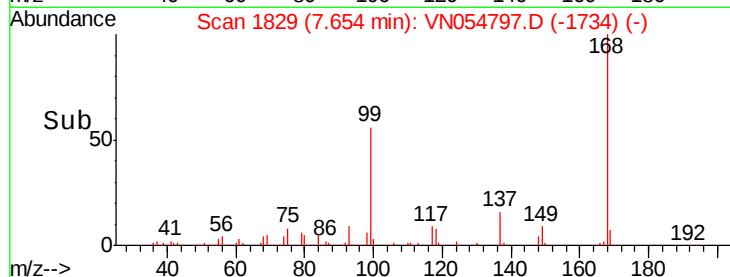
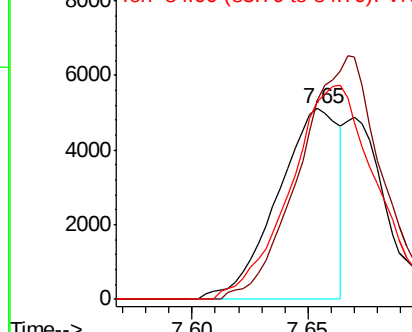
56 100

69 104.0 27.8 41.6#

84 103.7 74.6 111.8



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



#32

1,1,1-Trichloroethane

Concen: 1.015 ug/l

RT: 7.58 min Scan# 1805

Delta R.T. 0.01 min

Lab File: VN054797.D

Acq: 30 Mar 2019 12:53

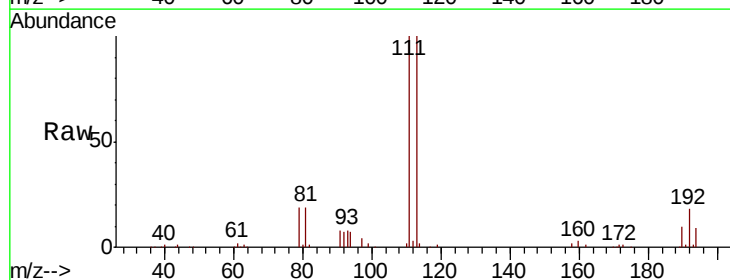
Tgt Ion: 97 Resp: 6360

Ion Ratio Lower Upper

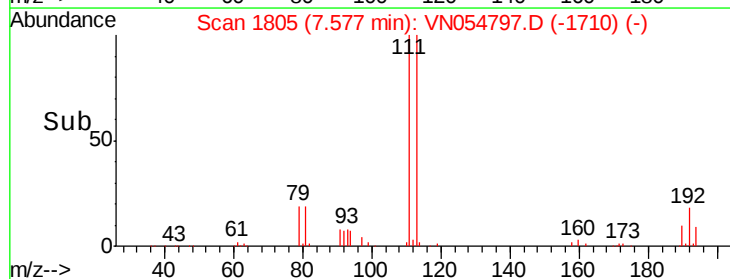
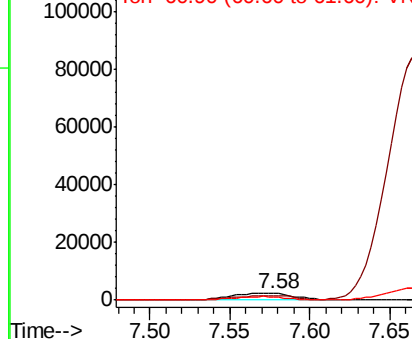
97 100

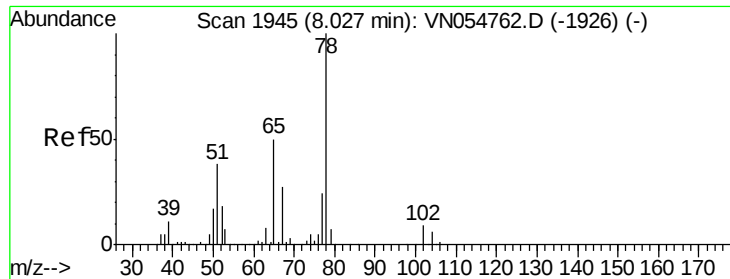
99 0.0 51.5 77.3#

61 43.9 33.6 50.4



Abundance Ion 96.90 (96.60 to 97.60): VN0  
Ion 98.90 (98.60 to 99.60): VN0  
Ion 60.90 (60.60 to 61.60): VN0

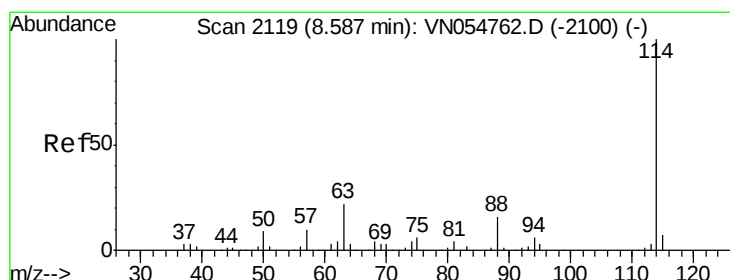
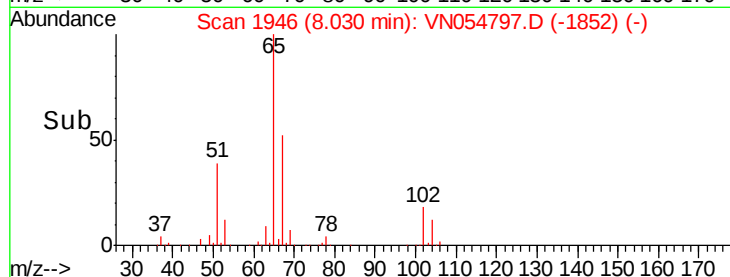
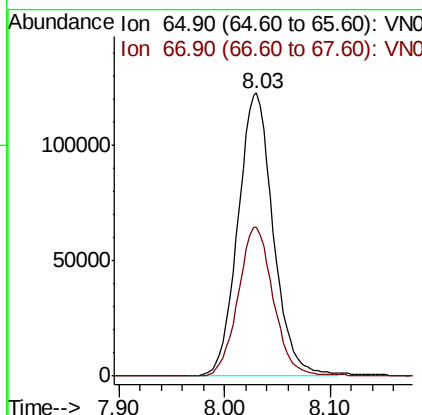
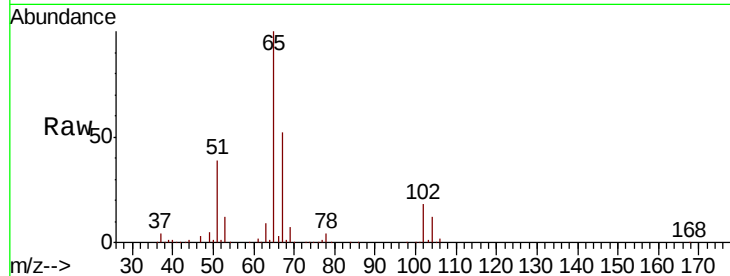




#33  
 1,2-Dichloroethane-d4  
 Concen: 54.715 ug/l  
 RT: 8.03 min Scan# 1946  
 Delta R.T. 0.00 min  
 Lab File: VN054797.D  
 Acq: 30 Mar 2019 12:53

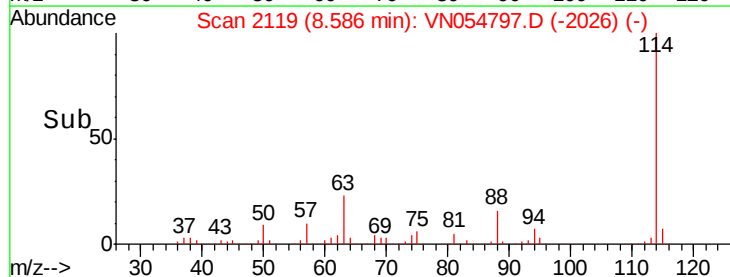
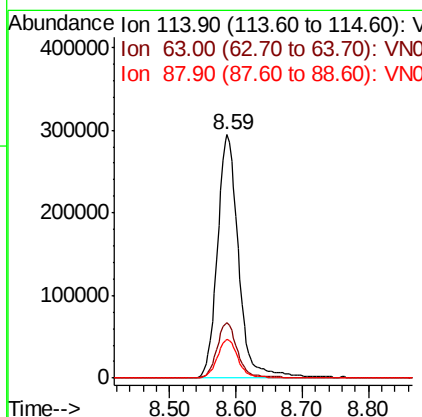
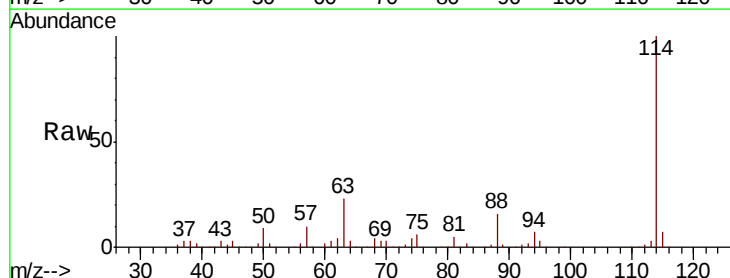
Instrument :  
 MSVOA\_N  
 ClientSampled :

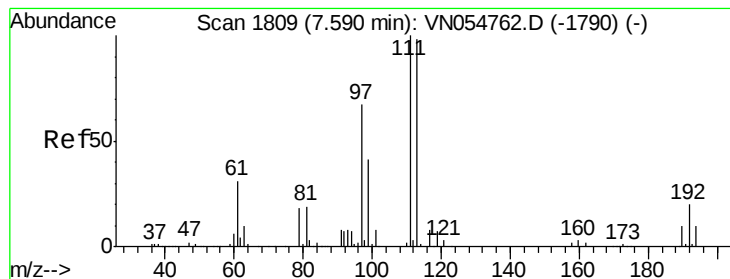
Tot Ion: 65 Resp: 286318  
 Ion Ratio Lower Upper  
 65 100  
 67 52.3 0.0 104.6



#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.59 min Scan# 2119  
 Delta R.T. -0.00 min  
 Lab File: VN054797.D  
 Acq: 30 Mar 2019 12:53

Tgt Ion: 114 Resp: 654808  
 Ion Ratio Lower Upper  
 114 100  
 63 22.7 0.0 35.2  
 88 15.8 0.0 30.2





#35

Dibromofluoromethane

Concen: 49.545 ug/l

RT: 7.59 min Scan# 1810

Delta R.T. 0.00 min

Lab File: VN054797.D

Acq: 30 Mar 2019 12:53

Instrument :

MSVOA\_N

ClientSampleId :

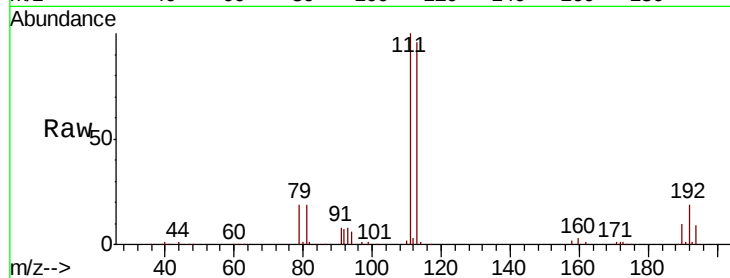
Tot Ion:113 Resp: 216291

Ion Ratio Lower Upper

113 100

111 104.8 82.2 123.4

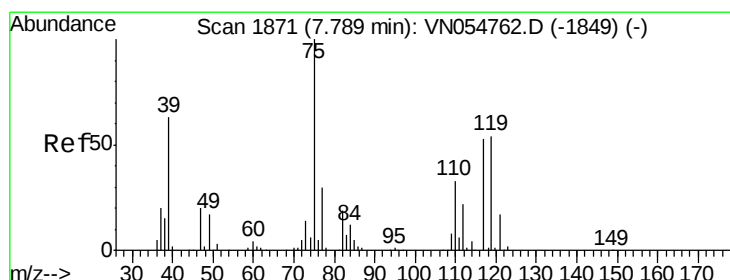
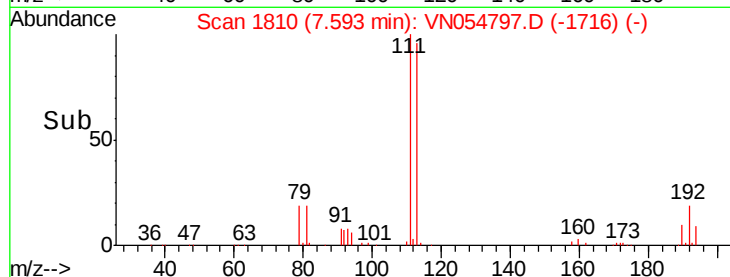
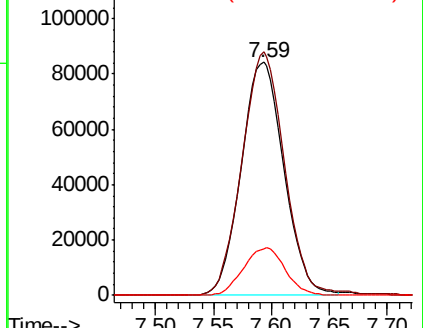
192 20.0 19.2 28.8



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: 1.176 ug/l

RT: 7.79 min Scan# 1872

Delta R.T. 0.00 min

Lab File: VN054797.D

Acq: 30 Mar 2019 12:53

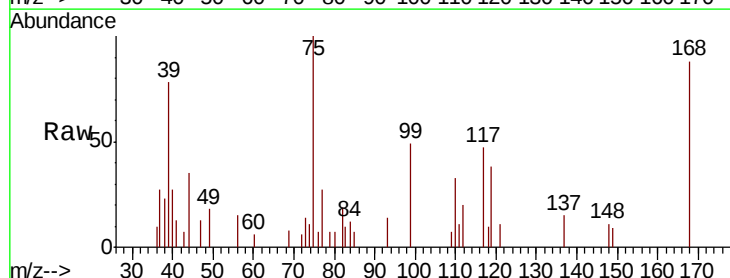
Tgt Ion: 75 Resp: 7173

Ion Ratio Lower Upper

75 100

110 27.6 19.1 57.5

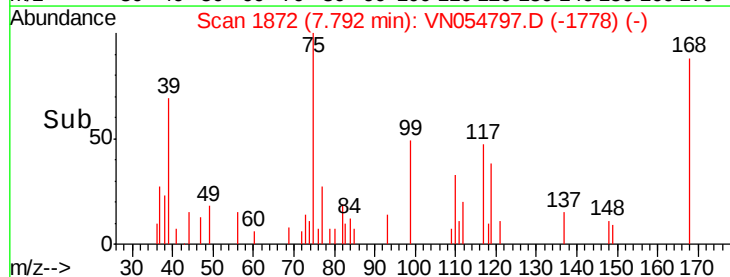
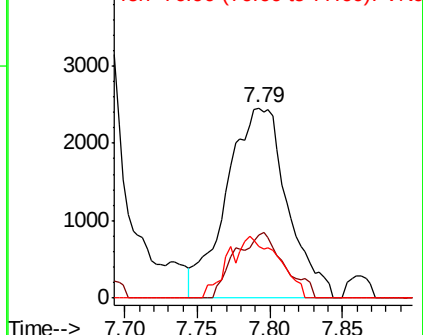
77 20.3 25.0 37.4#

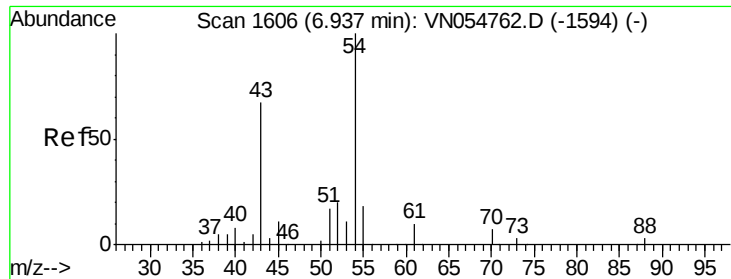


Abundance Ion 74.90 (74.60 to 75.60): V

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): V

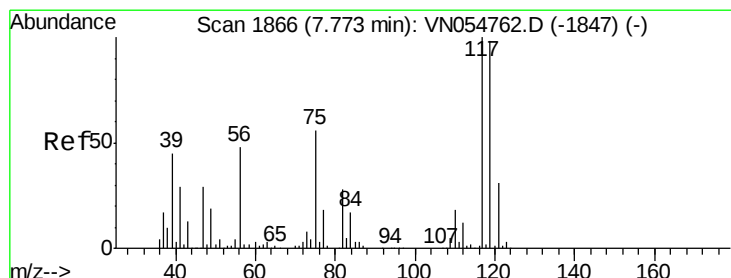
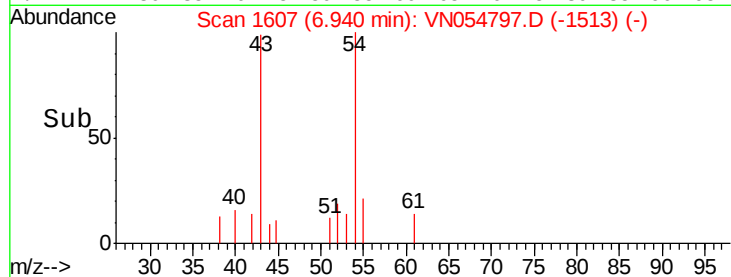
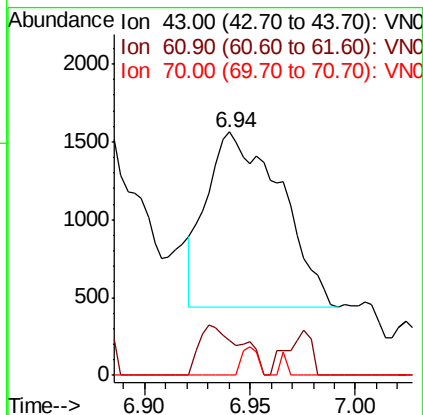
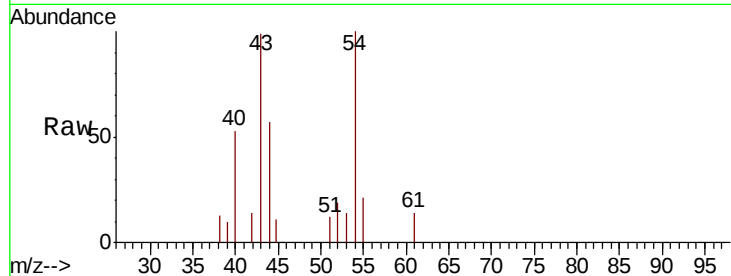




#37  
Ethyl Acetate  
Concen: 0.613 ug/l  
RT: 6.94 min Scan# 1607  
Delta R.T. 0.00 min  
Lab File: VN054797.D  
Acq: 30 Mar 2019 12:53

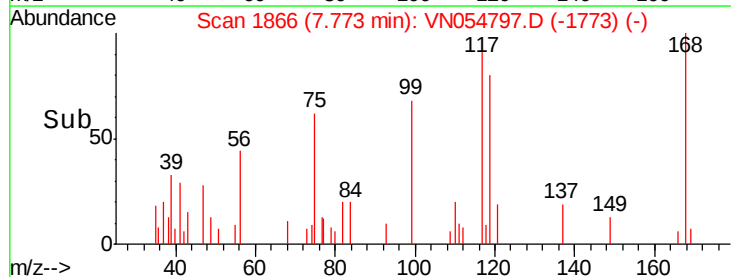
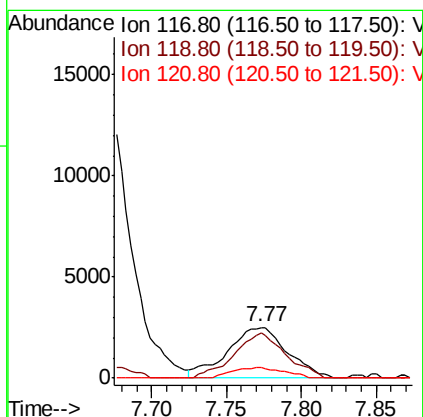
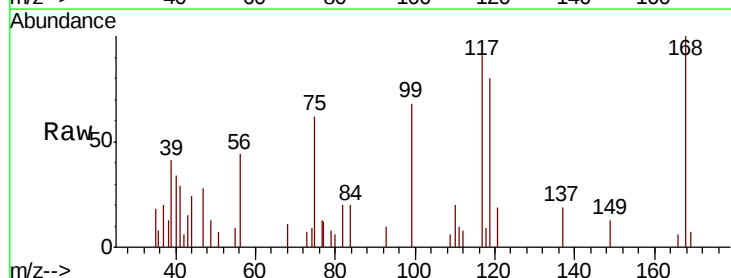
Instrument :  
MSVOA\_N  
ClientSampled :

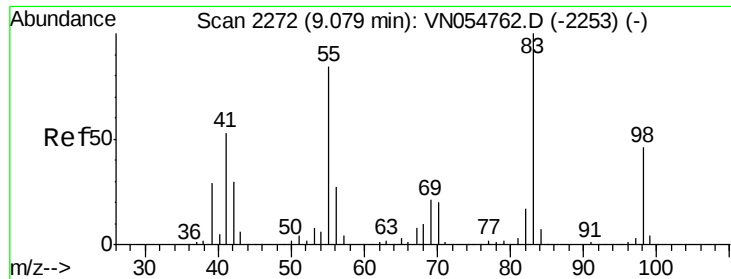
Tot Ion: 43 Resp: 2743  
Ion Ratio Lower Upper  
43 100  
61 16.4 11.8 17.6  
70 3.5 8.4 12.6#



#38  
Carbon Tetrachloride  
Concen: 1.177 ug/l  
RT: 7.77 min Scan# 1866  
Delta R.T. -0.00 min  
Lab File: VN054797.D  
Acq: 30 Mar 2019 12:53

Tgt Ion: 117 Resp: 6978  
Ion Ratio Lower Upper  
117 100  
119 88.1 76.3 114.5  
121 21.1 24.6 36.8#

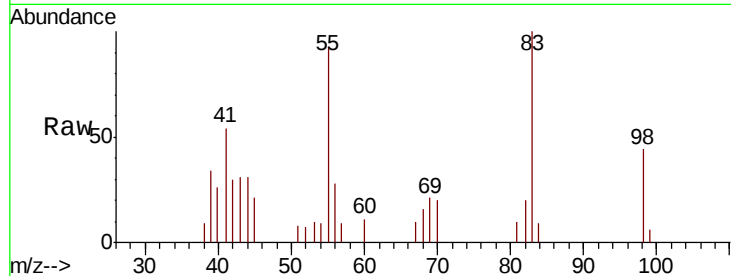




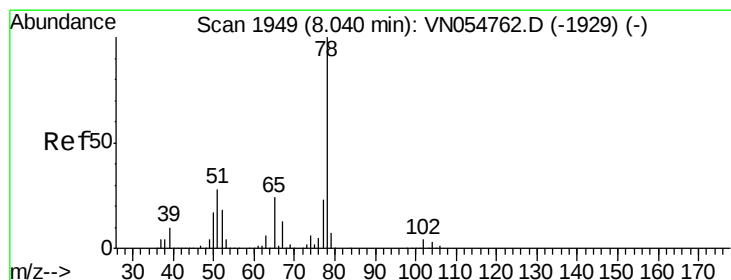
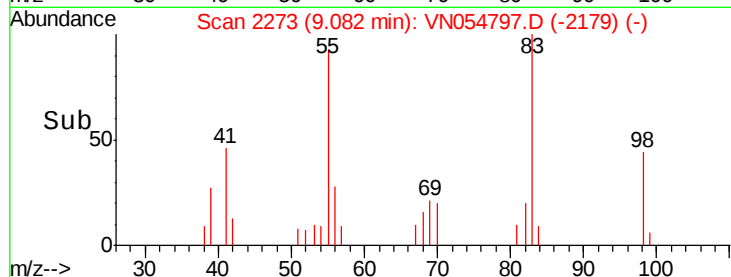
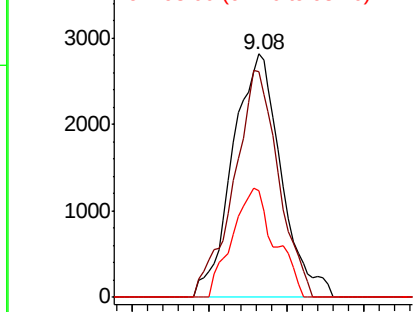
#39  
Methvlcvclohexane  
Concen: 0.912 ug/l  
RT: 9.08 min Scan# 2273  
Delta R.T. 0.00 min  
Lab File: VN054797.D  
Acq: 30 Mar 2019 12:53

Instrument :  
MSVOA\_N  
ClientSampleId :

Tot Ion: 83 Resp: 6117  
Ion Ratio Lower Upper  
83 100  
55 92.9 56.6 84.8#  
98 43.7 38.4 57.6

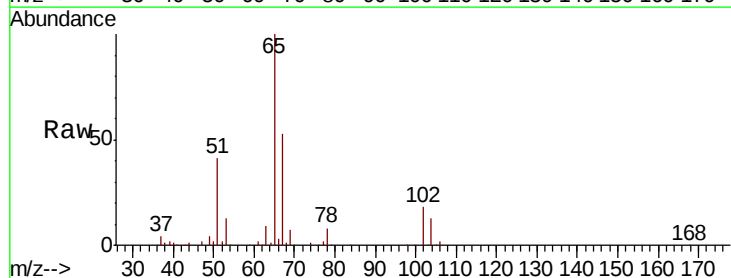


Abundance Ion 83.00 (82.70 to 83.70): VN0  
Ion 55.00 (54.70 to 55.70): VN0  
Ion 98.00 (97.70 to 98.70): VN0

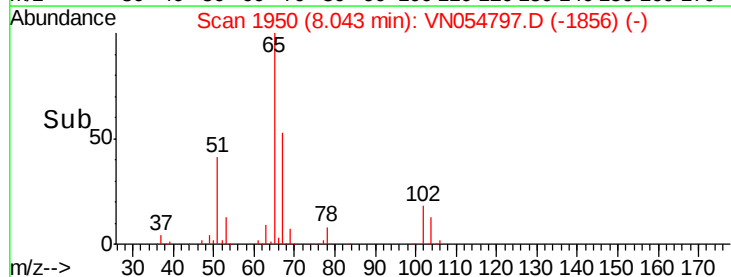
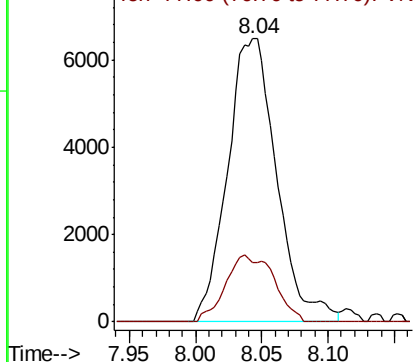


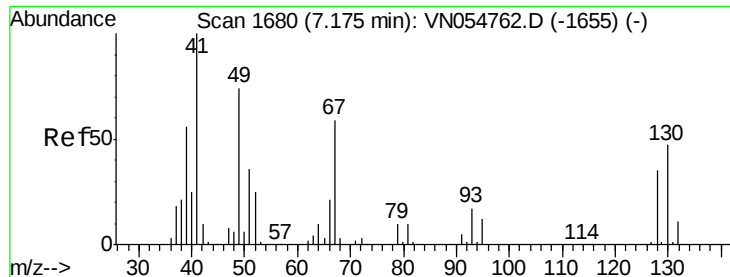
#40  
Benzene  
Concen: 0.957 ug/l  
RT: 8.04 min Scan# 1950  
Delta R.T. 0.00 min  
Lab File: VN054797.D  
Acq: 30 Mar 2019 12:53

Tgt Ion: 78 Resp: 16707  
Ion Ratio Lower Upper  
78 100  
77 21.2 19.1 28.7



Abundance Ion 78.00 (77.70 to 78.70): VN0  
Ion 77.00 (76.70 to 77.70): VN0

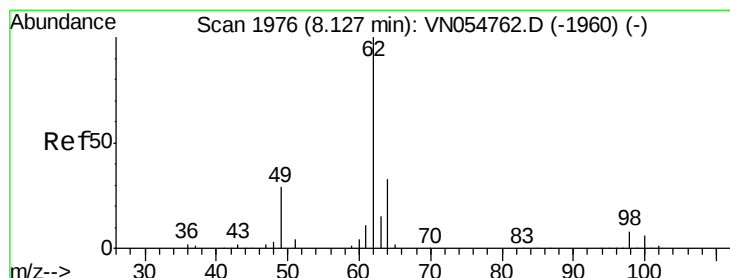
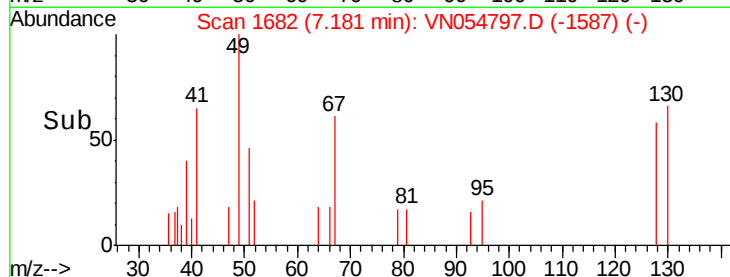
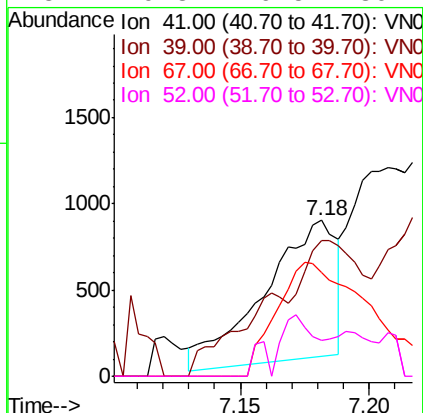
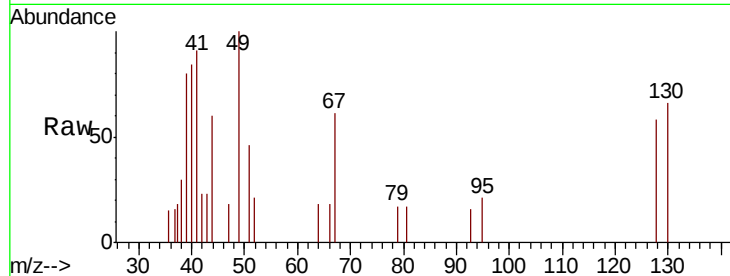




#41  
Methacrylonitrile  
Concen: 0.622 ug/l  
RT: 7.18 min Scan# 1682  
Delta R.T. 0.01 min  
Lab File: VN054797.D  
Acq: 30 Mar 2019 12:53

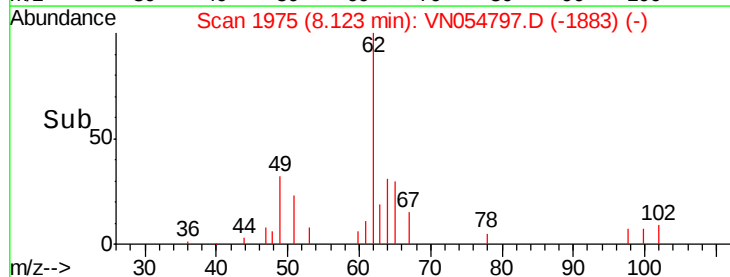
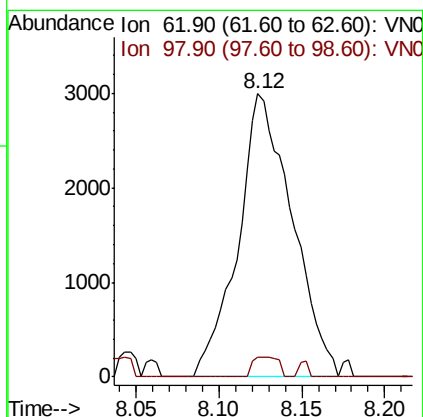
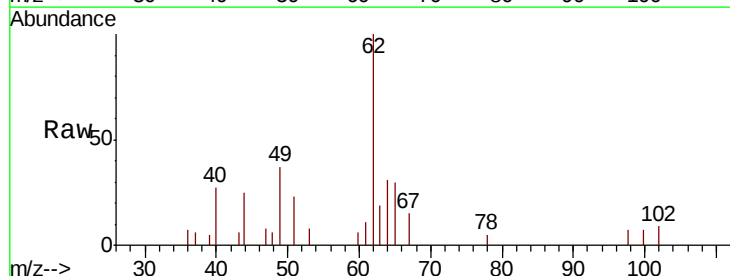
Instrument :  
MSVOA\_N  
ClientSampled :

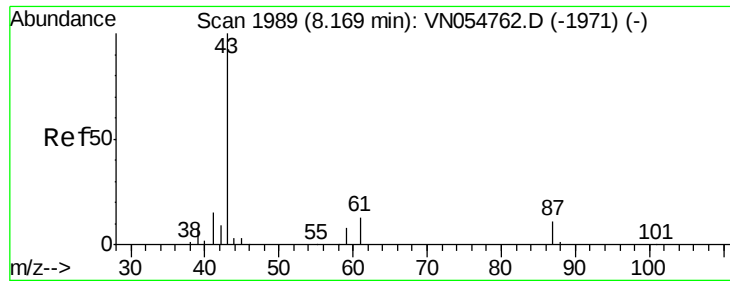
Tot Ion: 41 Resp: 1563  
Ion Ratio Lower Upper  
41 100  
39 30.2 46.8 70.2#  
67 103.3 67.0 100.4#  
52 19.8 26.5 39.7#



#42  
1,2-Dichloroethane  
Concen: 1.092 ug/l  
RT: 8.12 min Scan# 1975  
Delta R.T. -0.00 min  
Lab File: VN054797.D  
Acq: 30 Mar 2019 12:53

Tgt Ion: 62 Resp: 6807  
Ion Ratio Lower Upper  
62 100  
98 3.3 0.0 18.4





#43

Isopropyl Acetate

Concen: 1.154 ug/l

RT: 8.17 min Scan# 1991

Delta R.T. 0.01 min

Lab File: VN054797.D

Acq: 30 Mar 2019 12:53

Instrument :

MSVOA\_N

ClientSampleId :

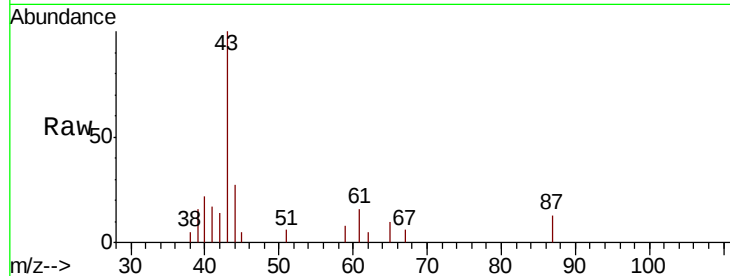
Tot Ion: 43 Resp: 8389

Ion Ratio Lower Upper

43 100

61 3.0 15.8 23.8#

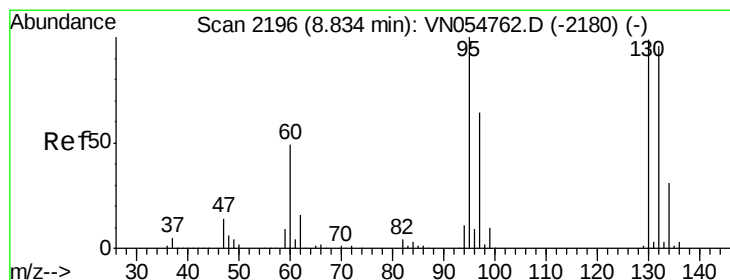
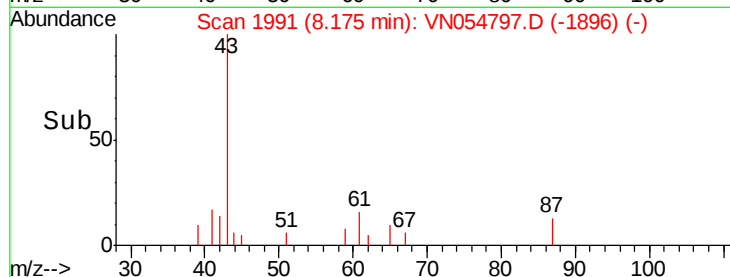
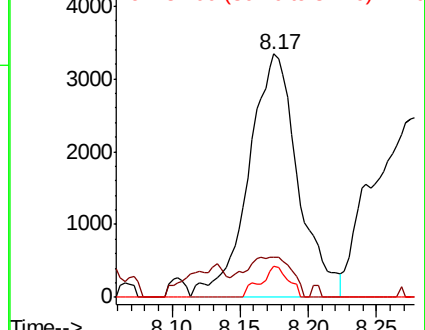
87 7.1 12.0 18.0#



Abundance Ion 43.00 (42.70 to 43.70): VN054797.D (-2103) (-)

Ion 61.00 (60.70 to 61.70): VN054797.D (-2103) (-)

Ion 87.00 (86.70 to 87.70): VN054797.D (-2103) (-)



#44

Trichloroethene

Concen: 0.974 ug/l

RT: 8.84 min Scan# 2197

Delta R.T. 0.00 min

Lab File: VN054797.D

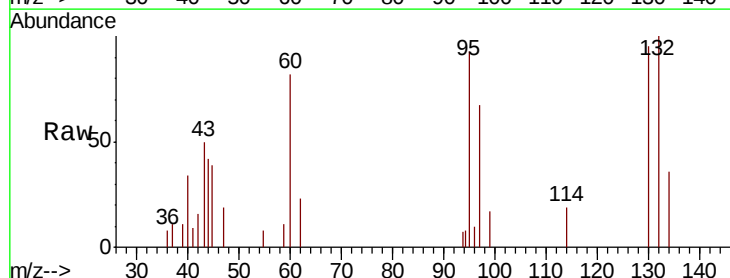
Acq: 30 Mar 2019 12:53

Tgt Ion:130 Resp: 4414

Ion Ratio Lower Upper

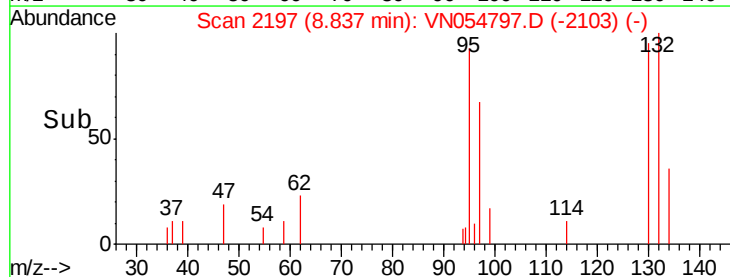
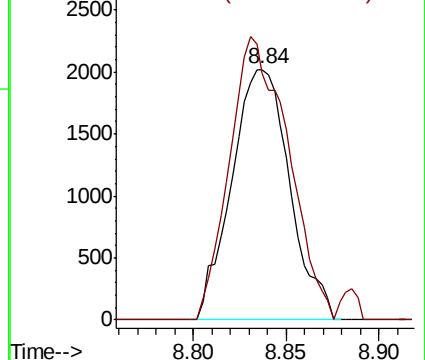
130 100

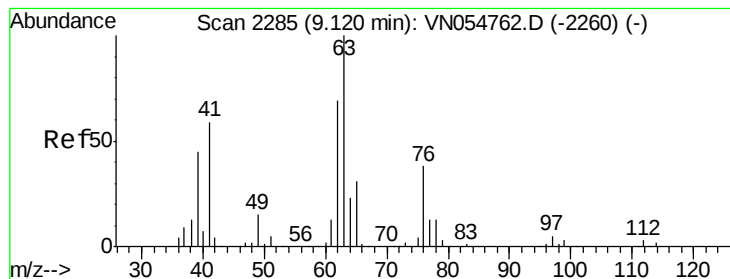
95 98.1 0.0 185.2



Abundance Ion 129.80 (129.50 to 130.50): VN054797.D (-2103) (-)

Ion 94.90 (94.60 to 95.60): VN054797.D (-2103) (-)





#45

1,2-Dichloropropane

Concen: 1.006 ug/l

RT: 9.12 min Scan# 2286

Delta R.T. 0.00 min

Lab File: VN054797.D

Acq: 30 Mar 2019 12:53

Instrument :

MSVOA\_N

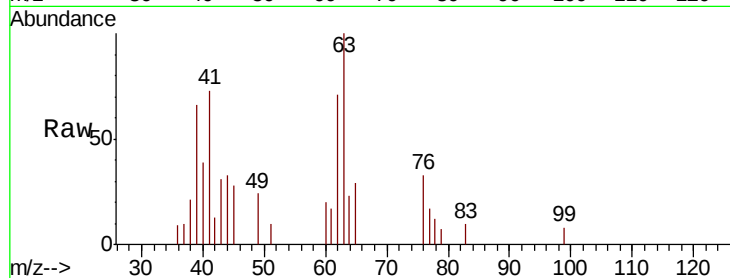
ClientSampleId :

Tot Ion: 63 Resp: 5007

Ion Ratio Lower Upper

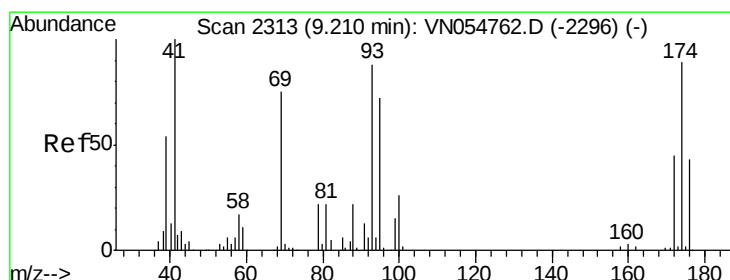
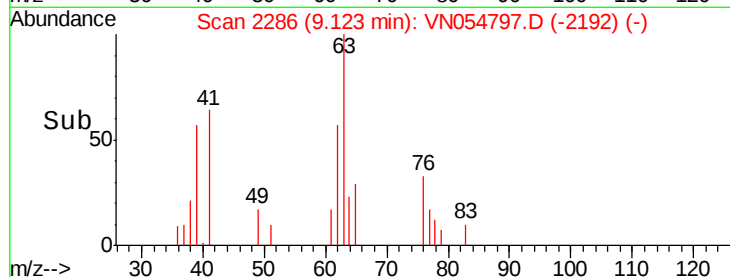
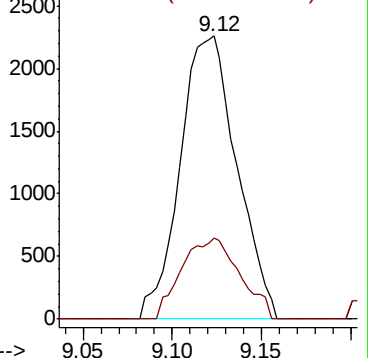
63 100

65 28.6 25.0 37.6



Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 64.90 (64.60 to 65.60): VN0



#46

Dibromomethane

Concen: 0.981 ug/l

RT: 9.21 min Scan# 2312

Delta R.T. -0.00 min

Lab File: VN054797.D

Acq: 30 Mar 2019 12:53

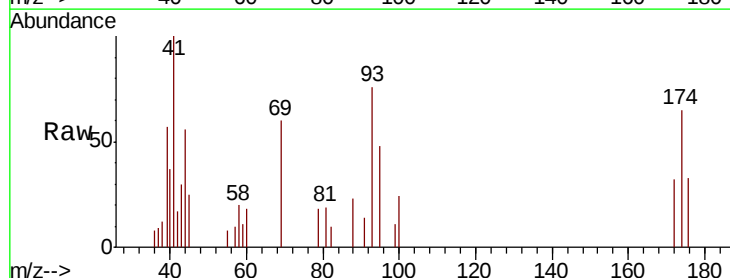
Tgt Ion: 93 Resp: 2747

Ion Ratio Lower Upper

93 100

95 86.4 66.7 100.1

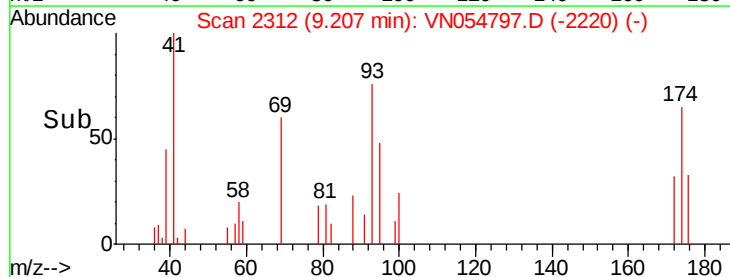
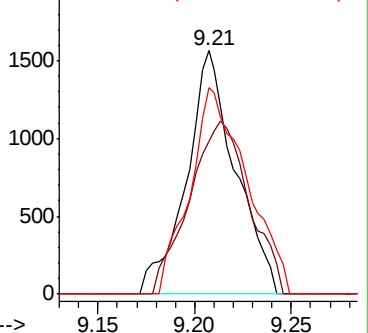
174 98.4 98.5 147.7#

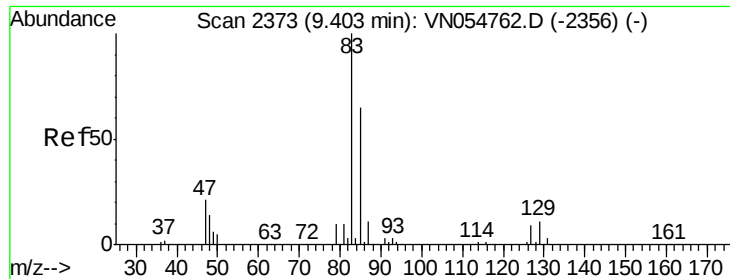


Abundance Ion 92.80 (92.50 to 93.50): VN0

Ion 94.80 (94.50 to 95.50): VN0

Ion 173.70 (173.40 to 174.40): V





#47

Bromodichloromethane

Concen: 0.855 ug/l

RT: 9.41 min Scan# 2374

Delta R.T. 0.00 min

Lab File: VN054797.D

Acq: 30 Mar 2019 12:53

Instrument :

MSVOA\_N

ClientSampleId :

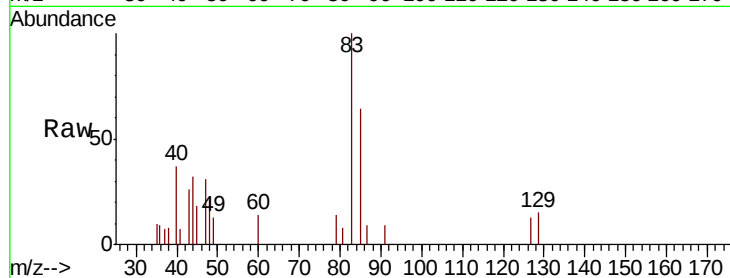
Tot Ion: 83 Resp: 4975

Ion Ratio Lower Upper

83 100

85 64.2 52.8 79.2

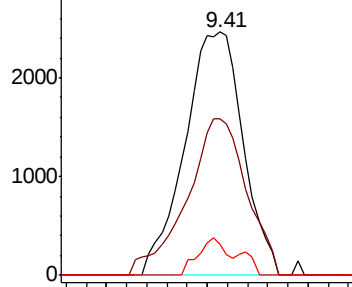
127 12.6 7.4 11.2#



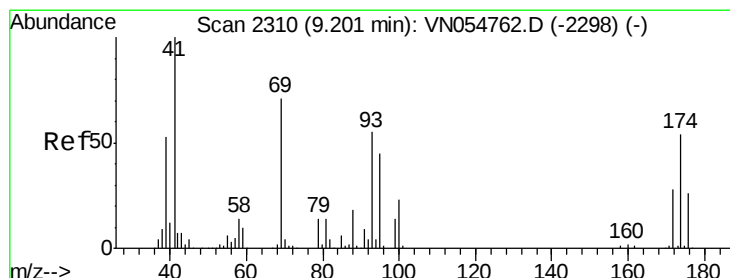
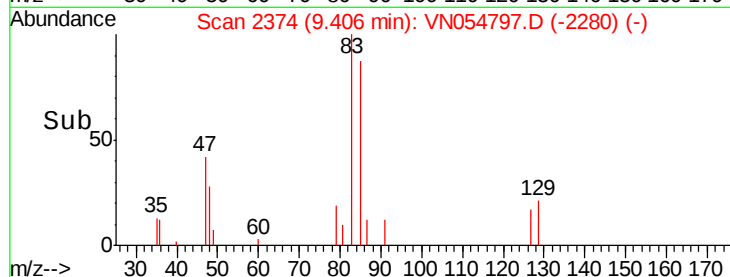
Abundance Ion 82.90 (82.60 to 83.60): VN054762.D (-2356) (-)

Ion 84.90 (84.60 to 85.60): VN054762.D (-2356) (-)

Ion 126.80 (126.50 to 127.50): VN054762.D (-2356) (-)



Time-->



#48

Methyl methacrylate

Concen: 1.091 ug/l

RT: 9.20 min Scan# 2311

Delta R.T. 0.00 min

Lab File: VN054797.D

Acq: 30 Mar 2019 12:53

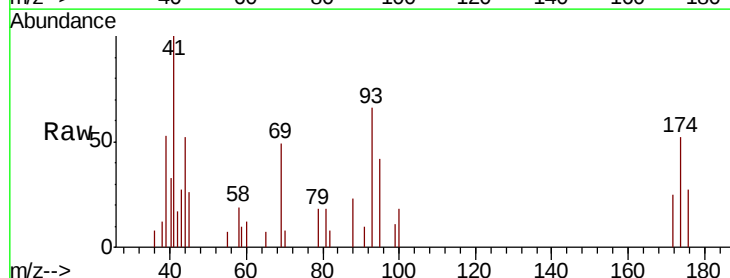
Tgt Ion: 41 Resp: 4299

Ion Ratio Lower Upper

41 100

69 56.4 72.6 108.8#

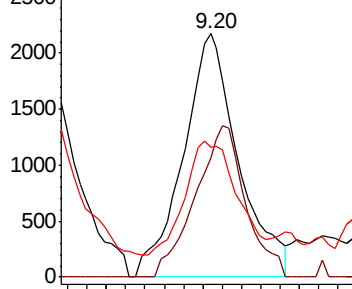
39 43.5 47.5 71.3#



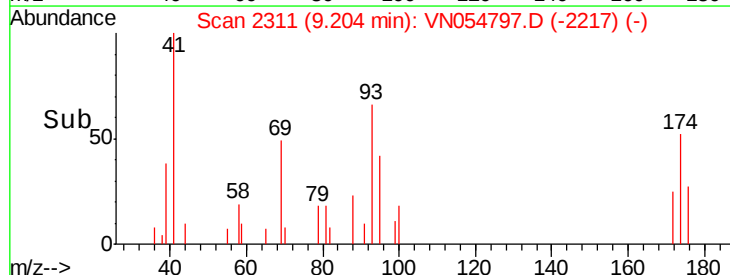
Abundance Ion 41.00 (40.70 to 41.70): VN054762.D (-2298) (-)

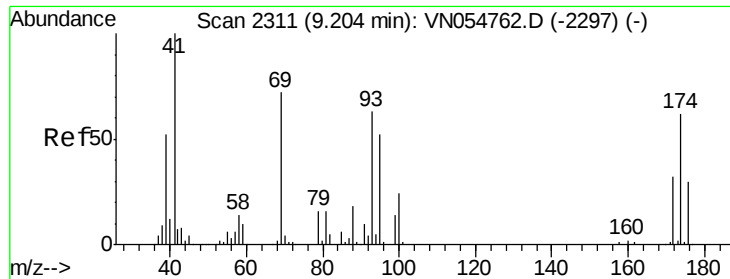
Ion 69.00 (68.70 to 69.70): VN054762.D (-2298) (-)

Ion 39.00 (38.70 to 39.70): VN054762.D (-2298) (-)



Time-->





#49

1,4-Dioxane

Concen: 23.195 ug/l

RT: 9.20 min Scan# 2310

Delta R.T. -0.00 min

Lab File: VN054797.D

Acq: 30 Mar 2019 12:53

Instrument :  
MSVOA\_N  
ClientSampled :

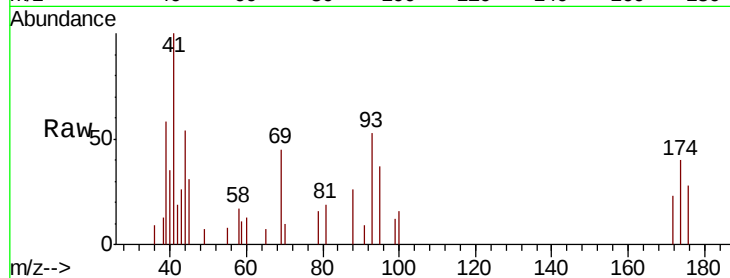
Tot Ion: 88 Resp: 907

Ion Ratio Lower Upper

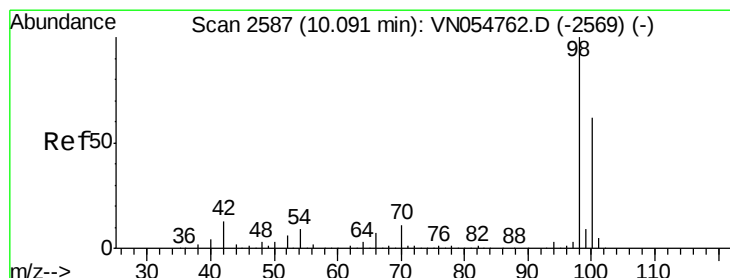
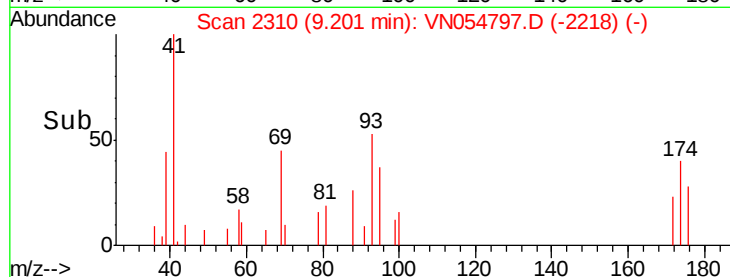
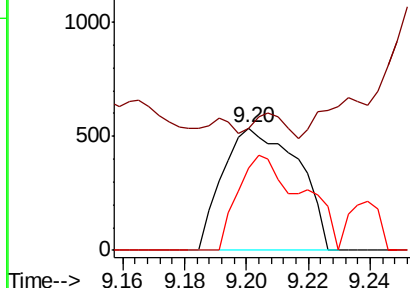
88 100

43 0.0 24.1 36.1#

58 66.3 50.8 76.2



Abundance Ion 88.00 (87.70 to 88.70): VN0  
Ion 43.00 (42.70 to 43.70): VN0  
Ion 58.00 (57.70 to 58.70): VN0



#50

Toluene-d8

Concen: 48.977 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. -0.00 min

Lab File: VN054797.D

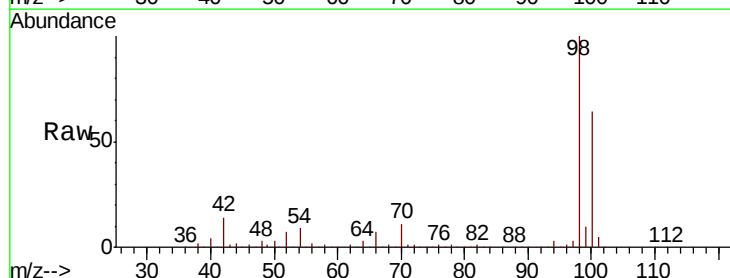
Acq: 30 Mar 2019 12:53

Tgt Ion: 98 Resp: 794898

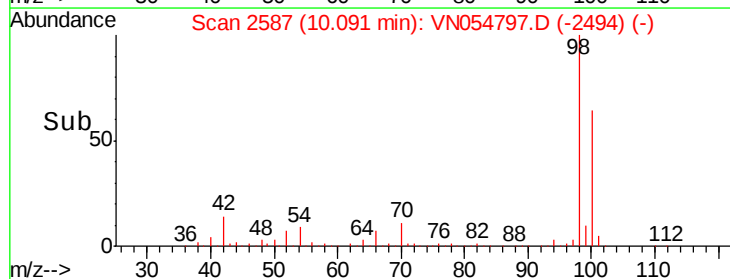
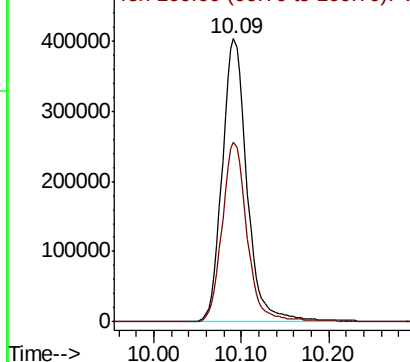
Ion Ratio Lower Upper

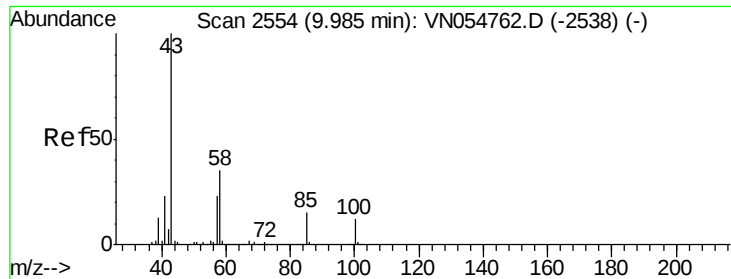
98 100

100 64.3 51.2 76.8



Abundance Ion 98.00 (97.70 to 98.70): VN0  
Ion 100.00 (99.70 to 100.70): VN0

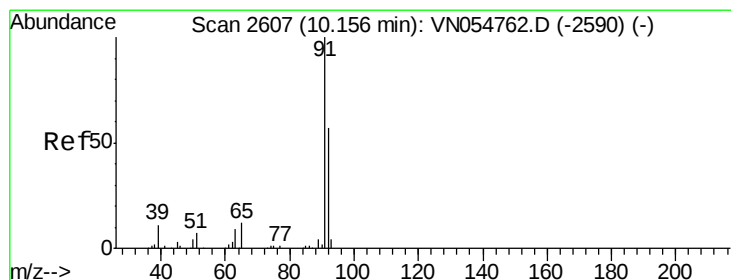
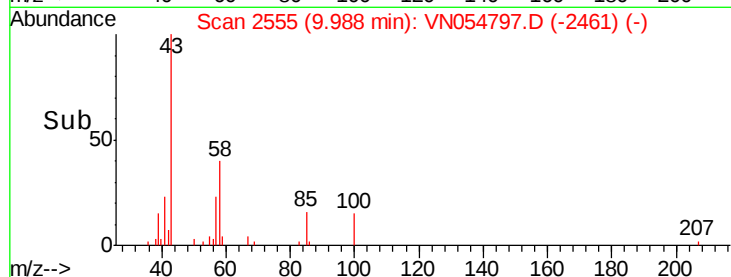
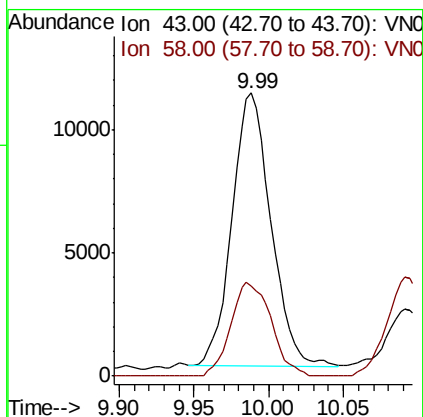
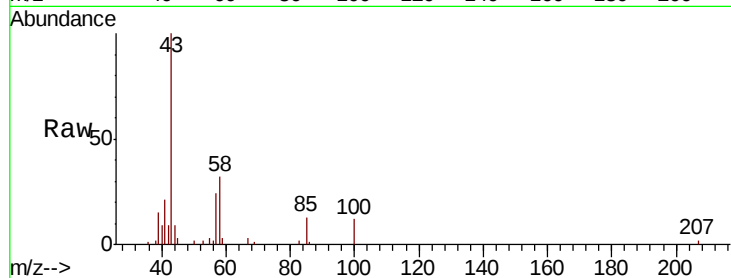




#51  
 4-Methyl-2-Pentanone  
 Concen: 4.898 ug/l  
 RT: 9.99 min Scan# 2555  
 Delta R.T. 0.00 min  
 Lab File: VN054797.D  
 Acq: 30 Mar 2019 12:53

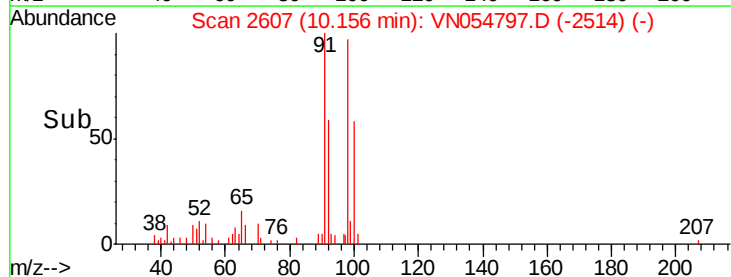
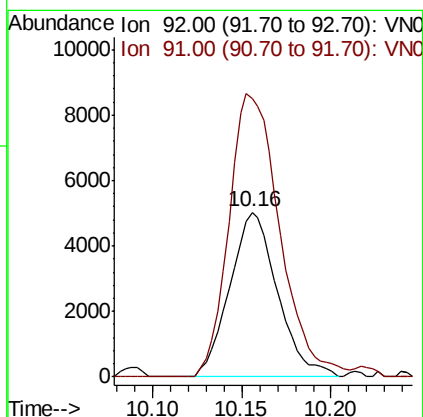
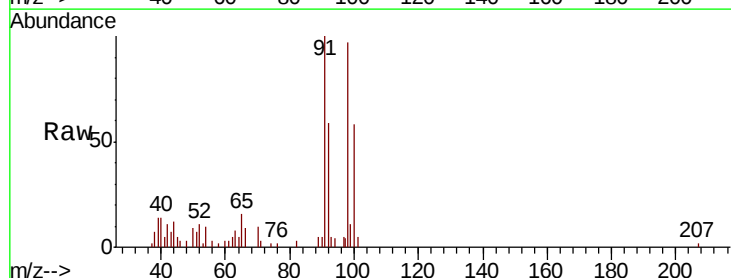
Instrument :  
 MSVOA\_N  
 ClientSampled :

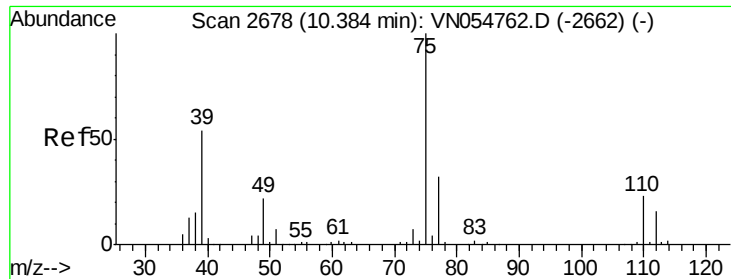
Tot Ion: 43 Resp: 20021  
 Ion Ratio Lower Upper  
 43 100  
 58 35.6 31.8 47.6



#52  
 Toluene  
 Concen: 0.903 ug/l  
 RT: 10.16 min Scan# 2607  
 Delta R.T. -0.00 min  
 Lab File: VN054797.D  
 Acq: 30 Mar 2019 12:53

Tgt Ion: 92 Resp: 9381  
 Ion Ratio Lower Upper  
 92 100  
 91 183.6 140.7 211.1

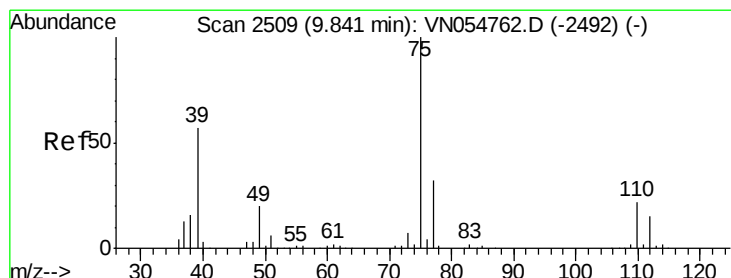
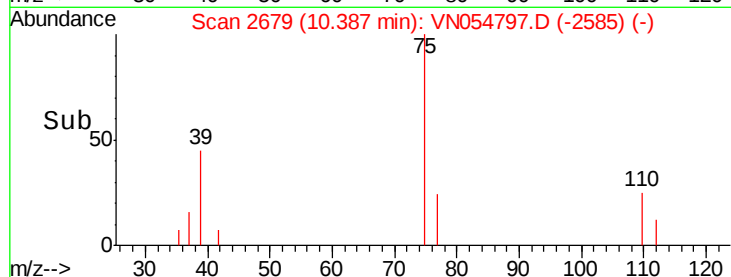
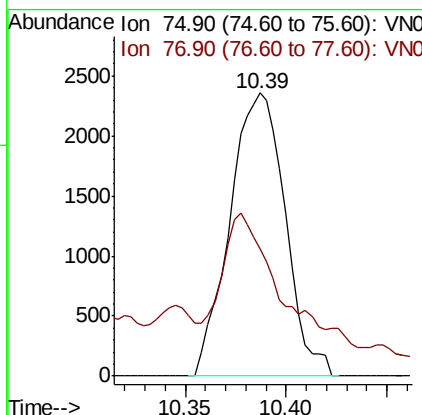
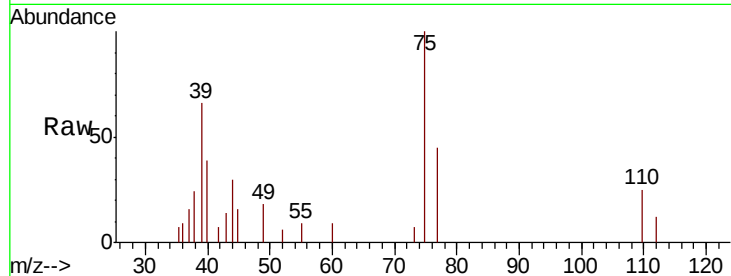




#53  
t-1,3-Dichloropropene  
Concen: 0.823 ug/l  
RT: 10.39 min Scan# 2679  
Delta R.T. 0.00 min  
Lab File: VN054797.D  
Acq: 30 Mar 2019 12:53

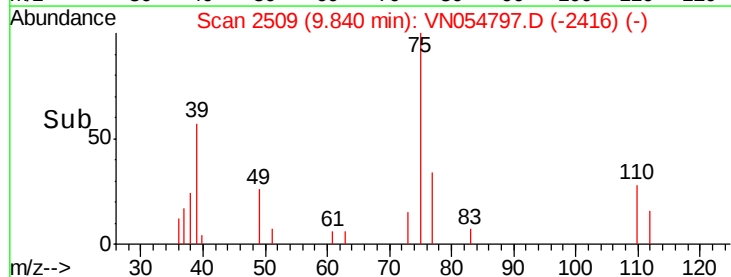
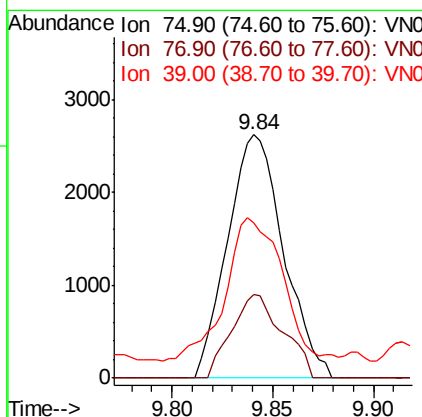
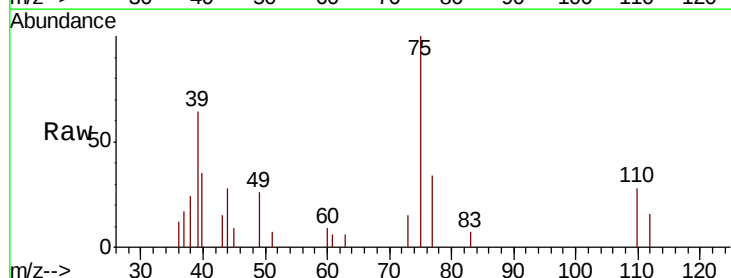
Instrument :  
MSVOA\_N  
ClientSampled :

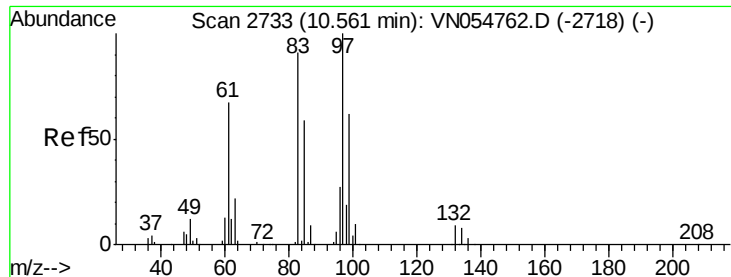
Tot Ion: 75 Resp: 4506  
Ion Ratio Lower Upper  
75 100  
77 28.3 25.8 38.8



#54  
cis-1,3-Dichloropropene  
Concen: 0.776 ug/l  
RT: 9.84 min Scan# 2509  
Delta R.T. -0.00 min  
Lab File: VN054797.D  
Acq: 30 Mar 2019 12:53

Tgt Ion: 75 Resp: 5072  
Ion Ratio Lower Upper  
75 100  
77 34.5 25.4 38.0  
39 55.3 37.2 55.8

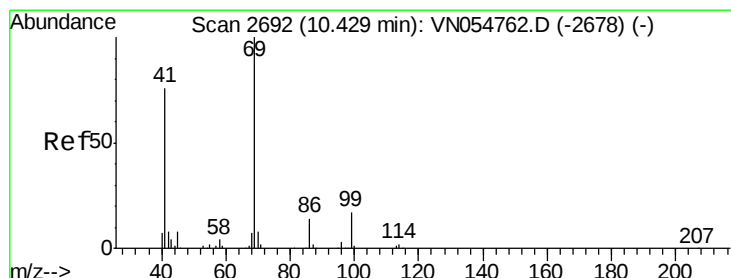
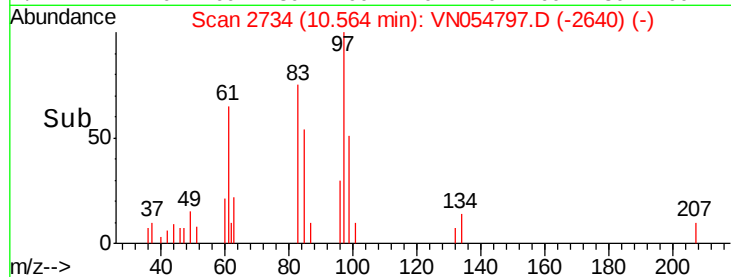
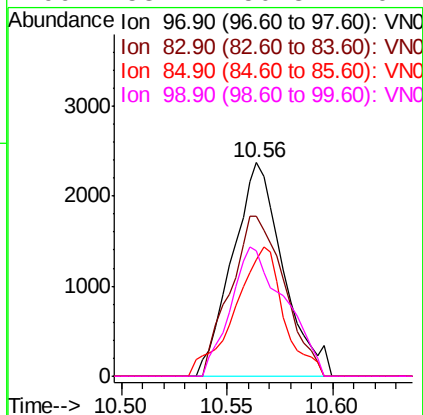
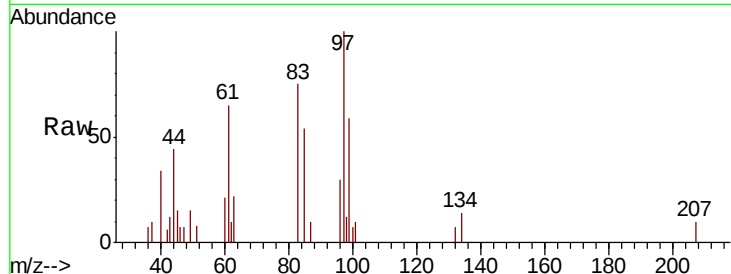




#55  
 1,1,2-Trichloroethane  
 Concen: 1.024 ug/l  
 RT: 10.56 min Scan# 2734  
 Delta R.T. 0.00 min  
 Lab File: VN054797.D  
 Acq: 30 Mar 2019 12:53

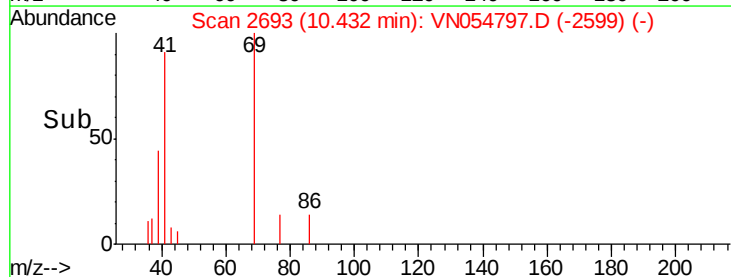
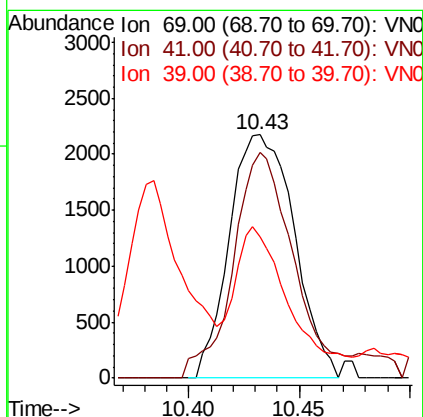
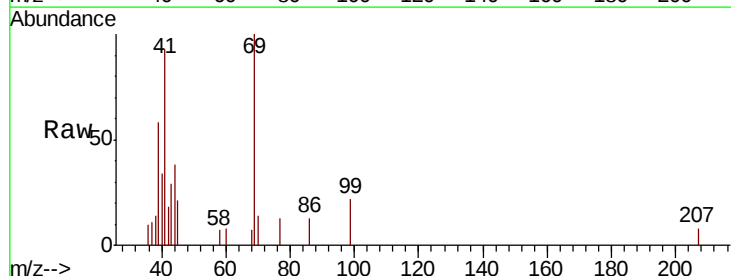
Instrument :  
 MSVOA\_N  
 ClientSampleId :

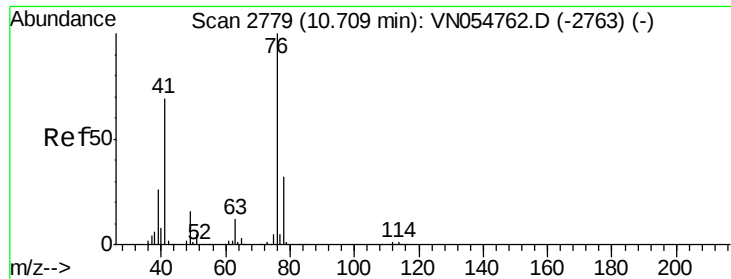
|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 97    | Resp: | 3956  |
| Ion      | Ratio | Lower | Upper |
| 97       | 100   |       |       |
| 83       | 74.9  | 66.6  | 100.0 |
| 85       | 54.3  | 44.4  | 66.6  |
| 99       | 58.7  | 50.8  | 76.2  |



#56  
 Ethyl methacrylate  
 Concen: 0.874 ug/l  
 RT: 10.43 min Scan# 2693  
 Delta R.T. 0.00 min  
 Lab File: VN054797.D  
 Acq: 30 Mar 2019 12:53

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 69    | Resp: | 4427  |
| Ion      | Ratio | Lower | Upper |
| 69       | 100   |       |       |
| 41       | 86.9  | 49.4  | 74.2# |
| 39       | 38.9  | 28.3  | 42.5  |





#57

1,3-Dichloropropane

Concen: 0.992 ug/l

RT: 10.71 min Scan# 2779

Delta R.T. -0.00 min

Lab File: VN054797.D

Acq: 30 Mar 2019 12:53

Instrument :

MSVOA\_N

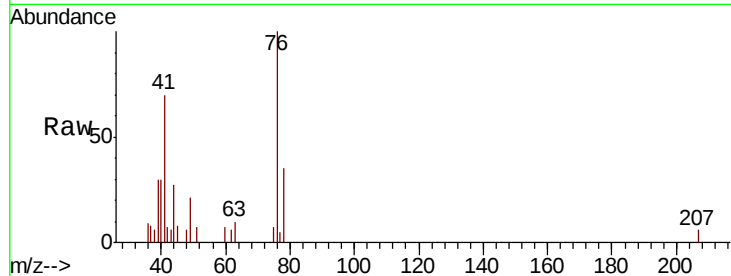
ClientSampleId :

Tot Ion: 76 Resp: 6586

Ion Ratio Lower Upper

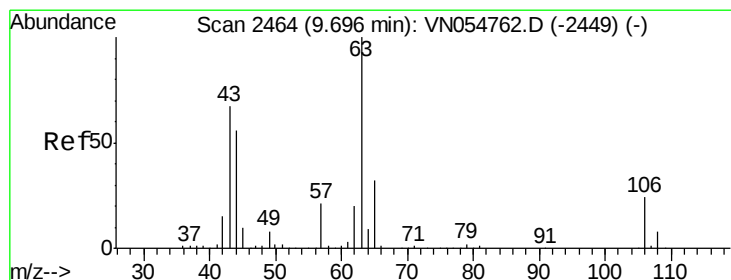
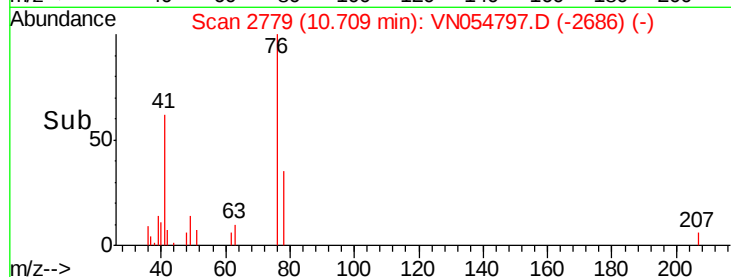
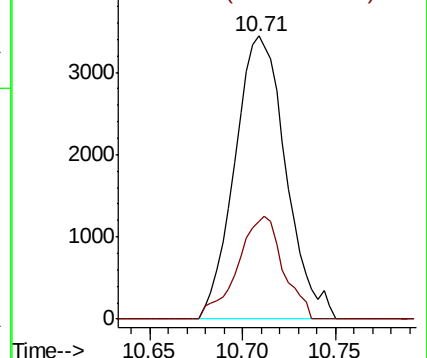
76 100

78 32.4 25.7 38.5



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0



#58

2-Chloroethyl Vinyl ether

Concen: 14.164 ug/l

RT: 9.70 min Scan# 2465

Delta R.T. 0.00 min

Lab File: VN054797.D

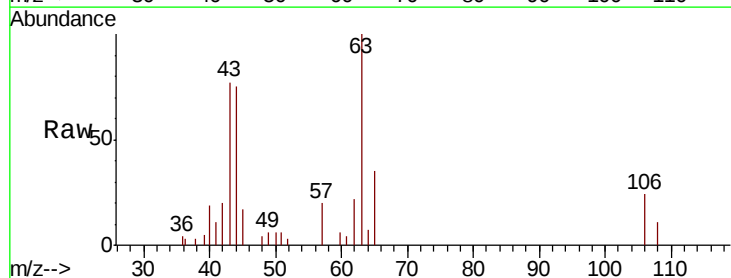
Acq: 30 Mar 2019 12:53

Tgt Ion: 63 Resp: 8675

Ion Ratio Lower Upper

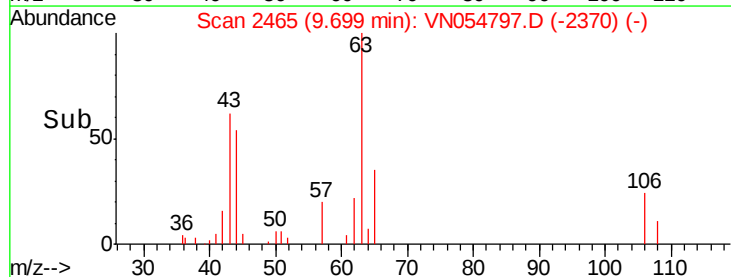
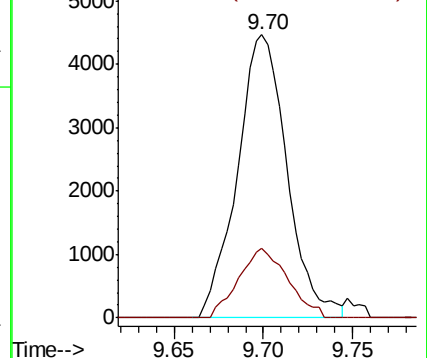
63 100

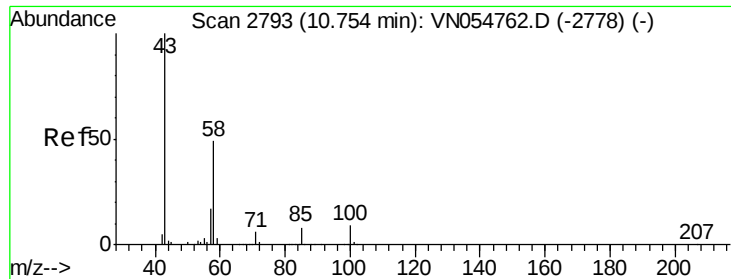
106 24.1 24.4 36.6#



Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 105.90 (105.60 to 106.60): V

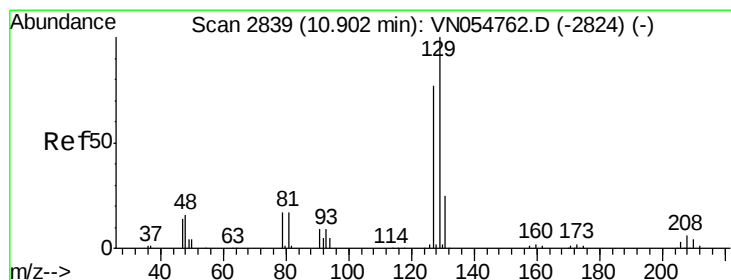
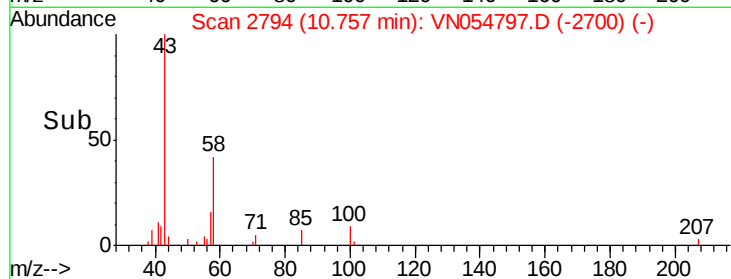
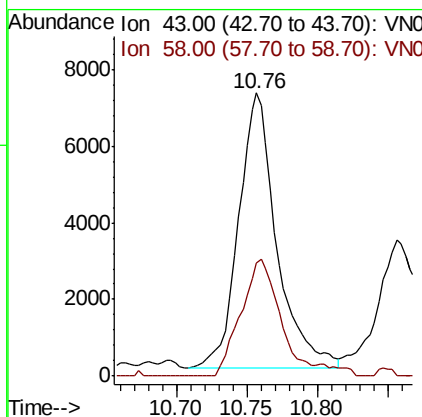
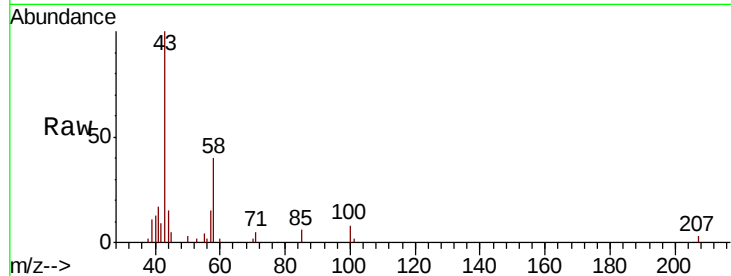




#59  
2-Hexanone  
Concen: 5.177 ug/l  
RT: 10.76 min Scan# 2794  
Delta R.T. 0.00 min  
Lab File: VN054797.D  
Acq: 30 Mar 2019 12:53

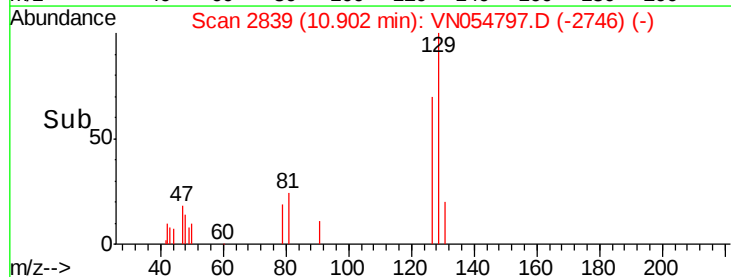
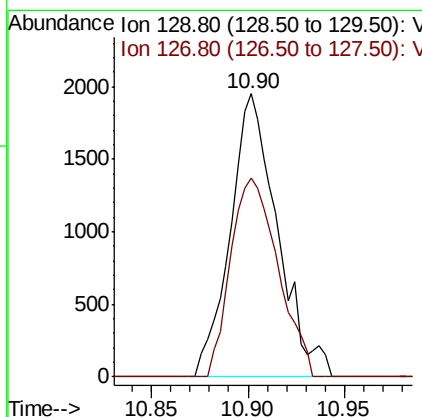
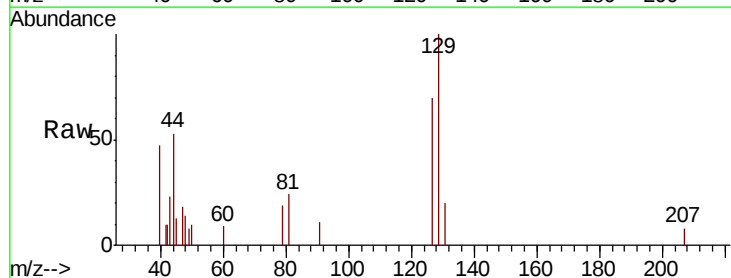
Instrument :  
MSVOA\_N  
ClientSampled :

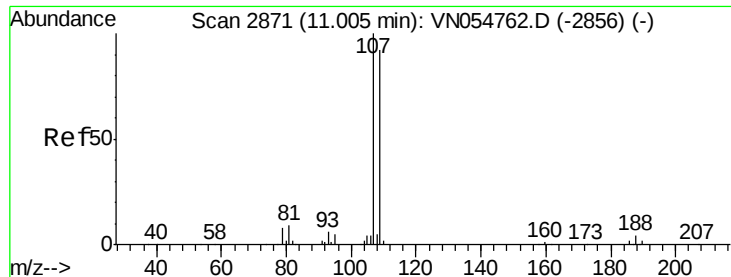
Tot Ion: 43.00 Resp: 13546  
Ion Ratio Lower Upper  
43 100  
58 43.4 28.0 83.9



#60  
Dibromochloromethane  
Concen: 0.842 ug/l  
RT: 10.90 min Scan# 2839  
Delta R.T. -0.00 min  
Lab File: VN054797.D  
Acq: 30 Mar 2019 12:53

Tgt Ion: 129 Resp: 3295  
Ion Ratio Lower Upper  
129 100  
127 70.5 38.6 115.8





#61

1,2-Dibromoethane

Concen: 0.863 ug/l

RT: 11.01 min Scan# 2872

Delta R.T. 0.00 min

Lab File: VN054797.D

Acq: 30 Mar 2019 12:53

Instrument :

MSVOA\_N

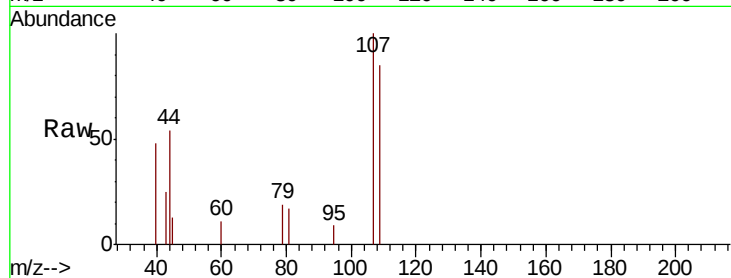
ClientSampled :

Tot Ion: 107 Resp: 3185

Ion Ratio Lower Upper

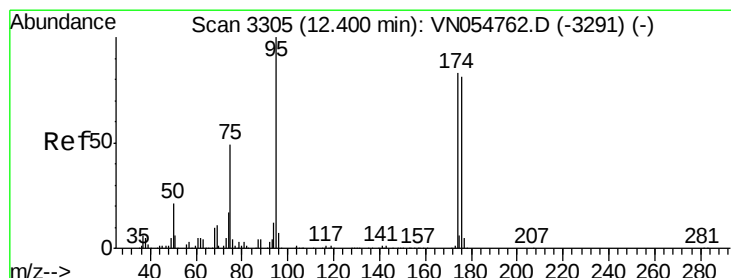
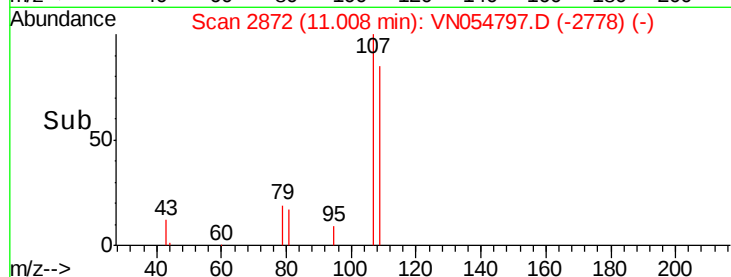
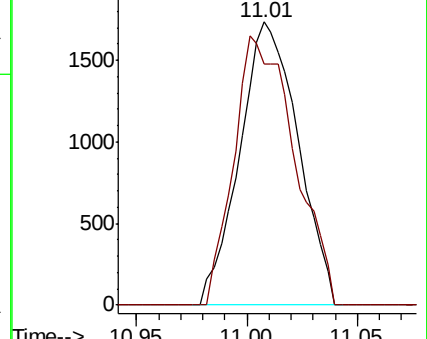
107 100

109 98.6 75.9 113.9



Abundance Ion 106.90 (106.60 to 107.60): V

Ion 108.80 (108.50 to 109.50): V



#62

4-Bromofluorobenzene

Concen: 44.594 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.00 min

Lab File: VN054797.D

Acq: 30 Mar 2019 12:53

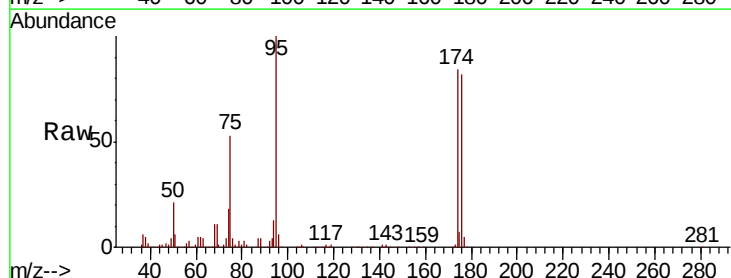
Tgt Ion: 95 Resp: 240705

Ion Ratio Lower Upper

95 100

174 84.7 0.0 191.0

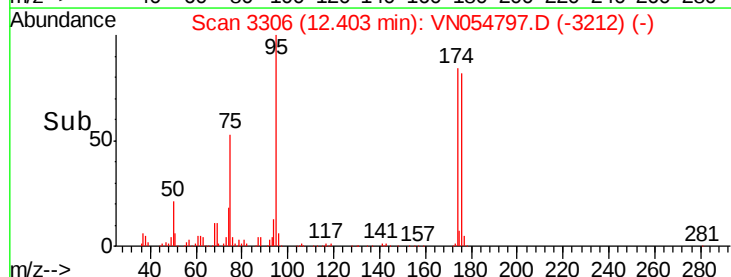
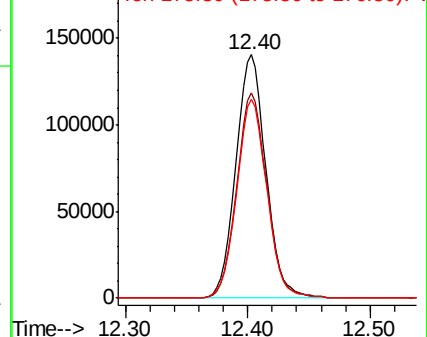
176 81.8 0.0 187.4

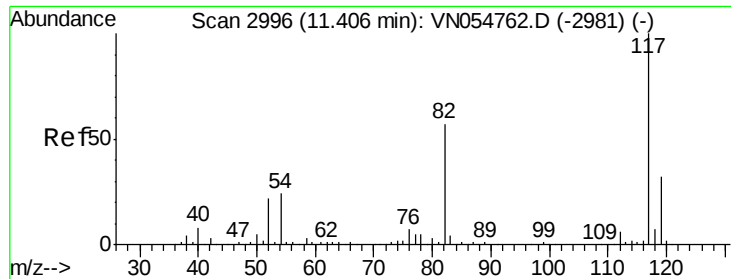


Abundance Ion 94.90 (94.60 to 95.60): V

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

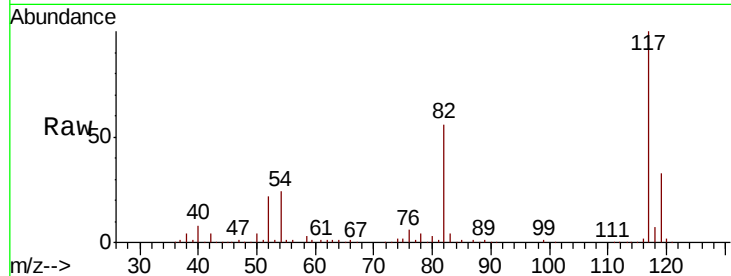




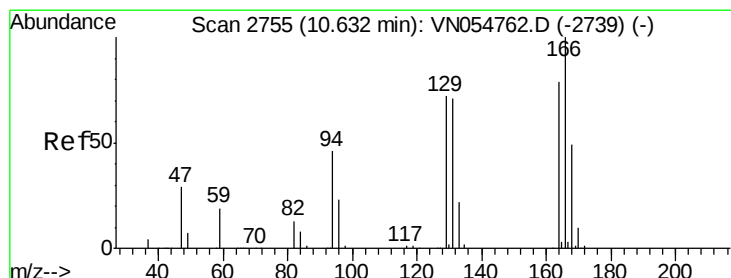
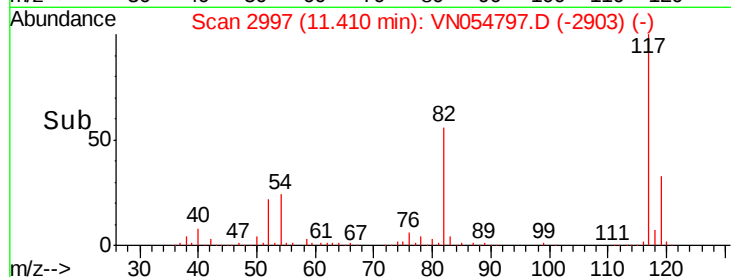
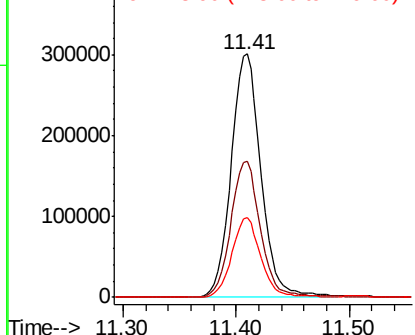
#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.41 min Scan# 2997  
Delta R.T. 0.00 min  
Lab File: VN054797.D  
Acq: 30 Mar 2019 12:53

Instrument :  
MSVOA\_N  
ClientSampleId :

Tot Ion:117 Resp: 552136  
Ion Ratio Lower Upper  
117 100  
82 55.6 40.0 60.0  
119 33.0 25.8 38.6

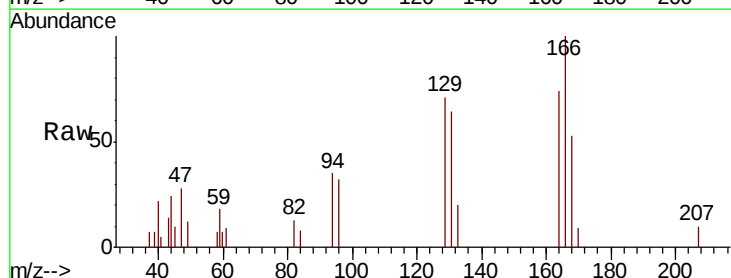


Abundance Ion 116.90 (116.60 to 117.60): V  
Ion 82.00 (81.70 to 82.70): V  
Ion 118.90 (118.60 to 119.60): V

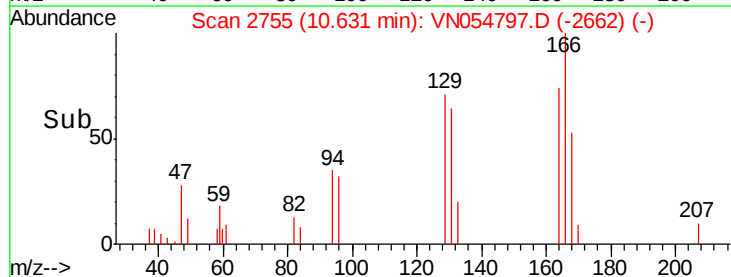
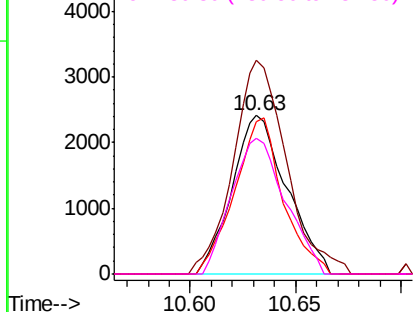


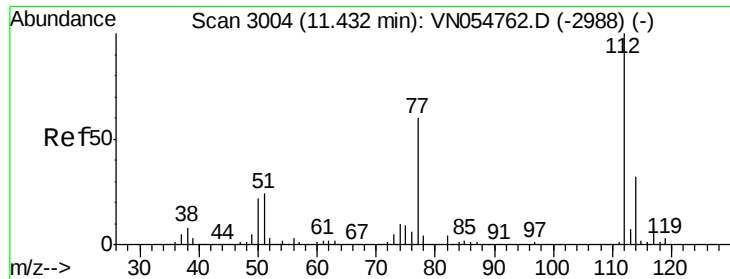
#64  
Tetrachloroethene  
Concen: 1.027 ug/l  
RT: 10.63 min Scan# 2755  
Delta R.T. -0.00 min  
Lab File: VN054797.D  
Acq: 30 Mar 2019 12:53

Tgt Ion:164 Resp: 4350  
Ion Ratio Lower Upper  
164 100  
166 134.7 103.9 155.9  
129 96.2 71.1 106.7  
131 86.0 68.2 102.4



Abundance Ion 163.80 (163.50 to 164.50): V  
Ion 165.80 (165.50 to 166.50): V  
Ion 128.80 (128.50 to 129.50): V  
Ion 130.80 (130.50 to 131.50): V





#65

Chlorobenzene

Concen: 0.973 ug/l

RT: 11.43 min Scan# 3004

Delta R.T. -0.00 min

Lab File: VN054797.D

Acq: 30 Mar 2019 12:53

Instrument :

MSVOA\_N

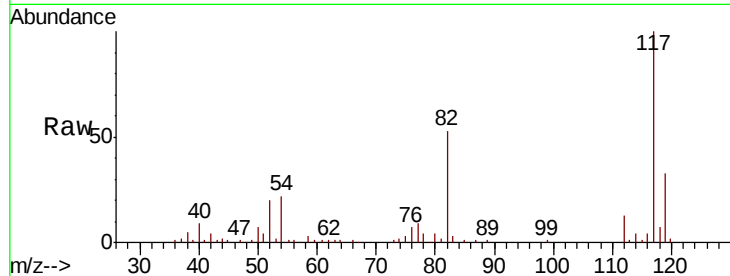
ClientSampled :

Tot Ion:112 Resp: 10521

Ion Ratio Lower Upper

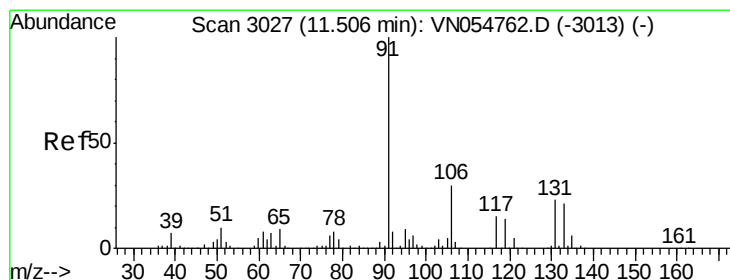
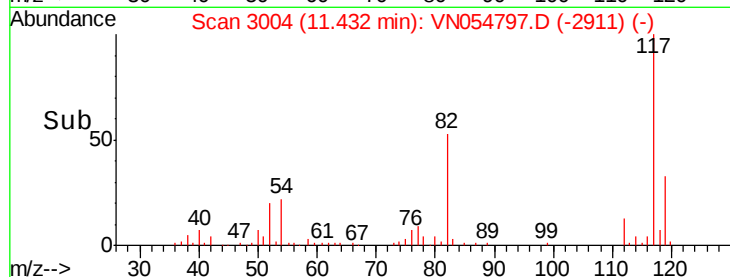
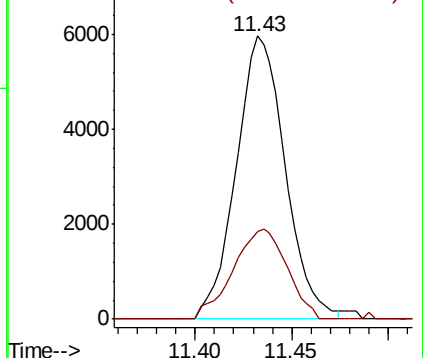
112 100

114 30.8 25.9 38.9



Abundance Ion 111.90 (111.60 to 112.60): V

Ion 113.90 (113.60 to 114.60): V



#66

1,1,1,2-Tetrachloroethane

Concen: 0.827 ug/l

RT: 11.51 min Scan# 3028

Delta R.T. 0.00 min

Lab File: VN054797.D

Acq: 30 Mar 2019 12:53

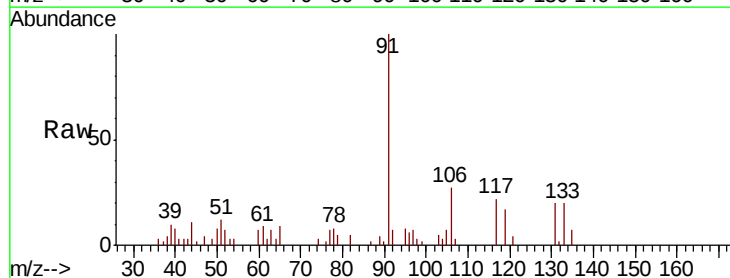
Tgt Ion:131 Resp: 3347

Ion Ratio Lower Upper

131 100

133 97.9 47.6 142.9

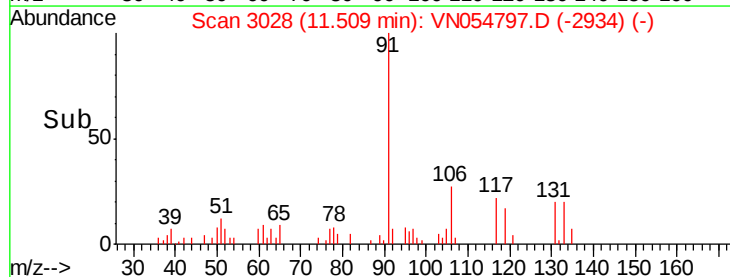
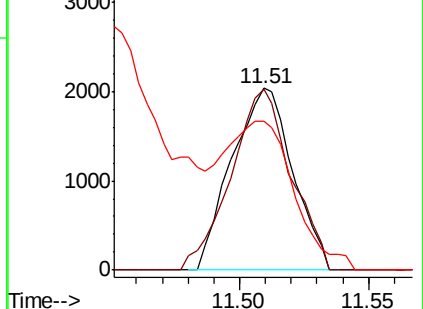
119 0.0 32.4 97.0#

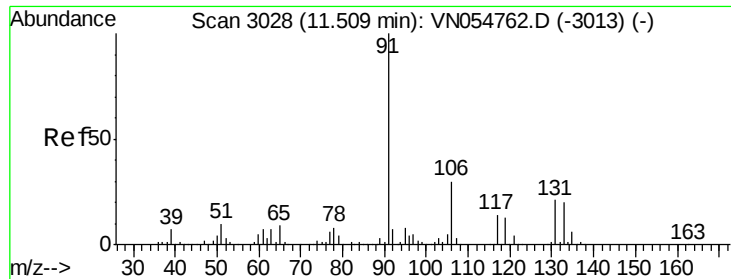


Abundance Ion 130.80 (130.50 to 131.50): V

Ion 132.80 (132.50 to 133.50): V

Ion 118.80 (118.50 to 119.50): V

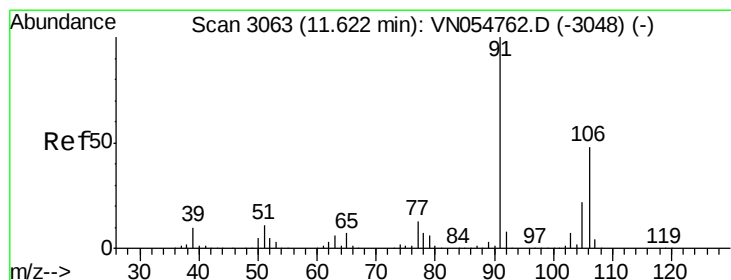
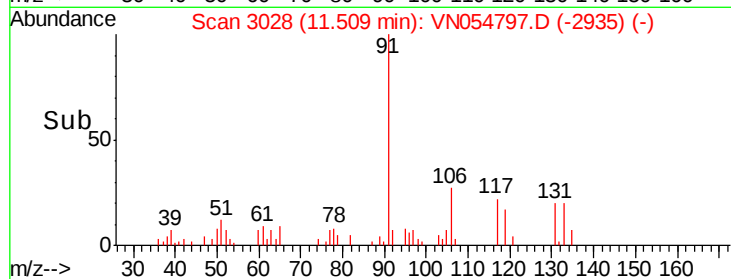
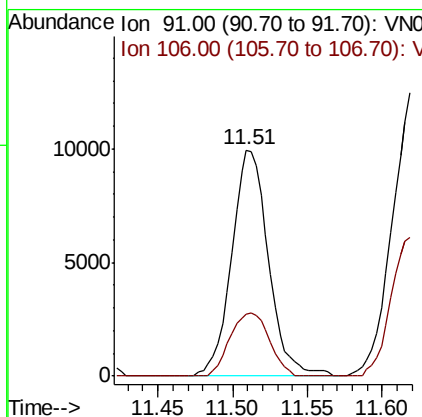
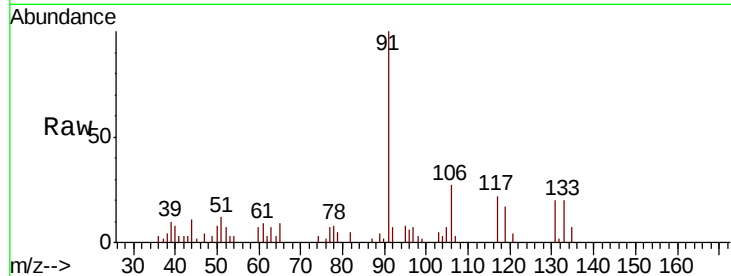




#67  
Ethyl Benzene  
Concen: 0.872 ug/l  
RT: 11.51 min Scan# 3028  
Delta R.T. -0.00 min  
Lab File: VN054797.D  
Acq: 30 Mar 2019 12:53

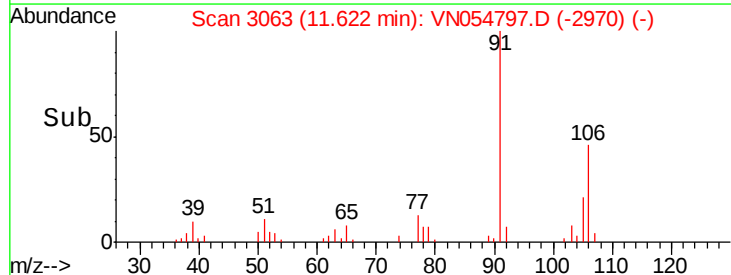
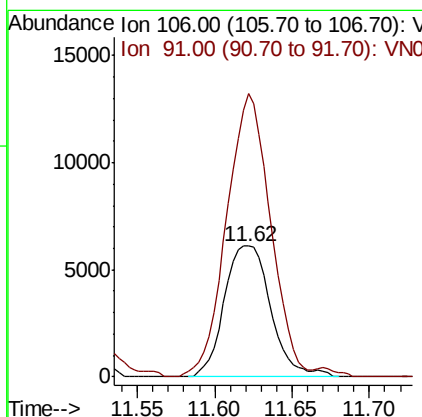
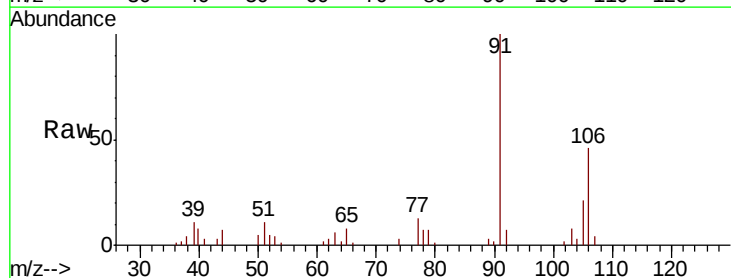
Instrument :  
MSVOA\_N  
ClientSampled :

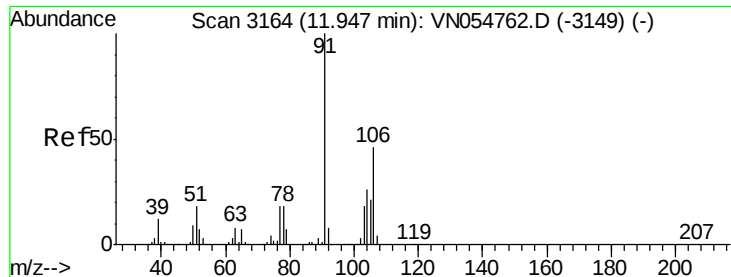
Tot Ion: 91 Resp: 17017  
Ion Ratio Lower Upper  
91 100  
106 27.3 25.5 38.3



#68  
m/p-Xylenes  
Concen: 1.771 ug/l  
RT: 11.62 min Scan# 3063  
Delta R.T. -0.00 min  
Lab File: VN054797.D  
Acq: 30 Mar 2019 12:53

Tgt Ion: 106 Resp: 12783  
Ion Ratio Lower Upper  
106 100  
91 203.8 159.4 239.2

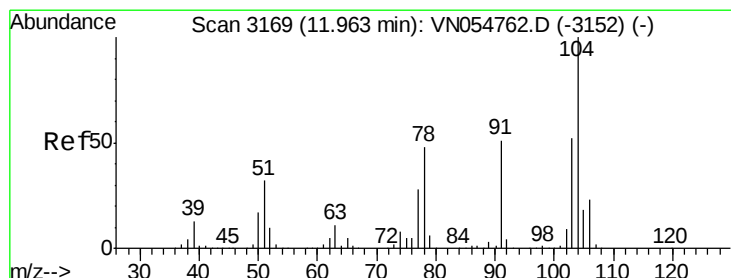
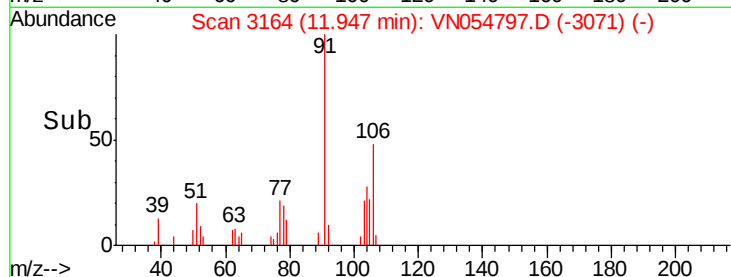
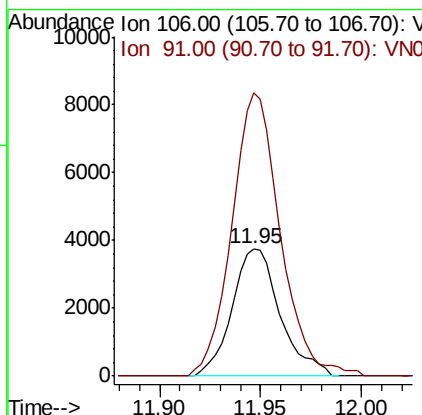
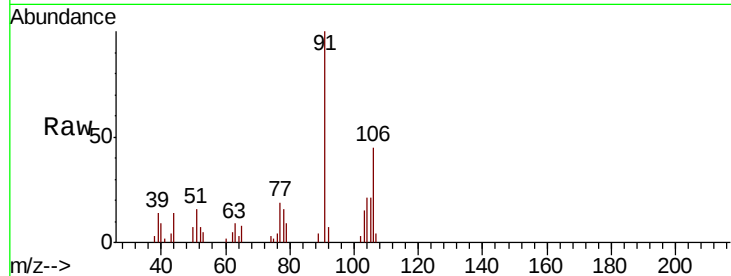




#69  
o-Xylene  
Concen: 0.886 ug/l  
RT: 11.95 min Scan# 3164  
Delta R.T. -0.00 min  
Lab File: VN054797.D  
Acq: 30 Mar 2019 12:53

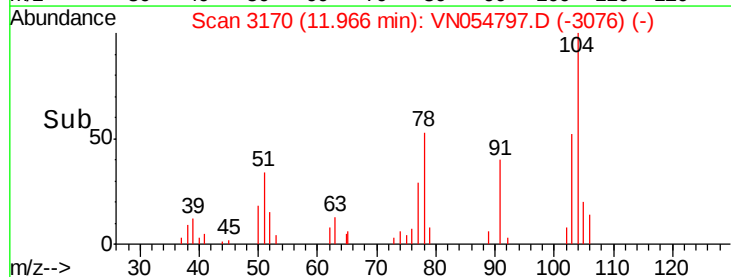
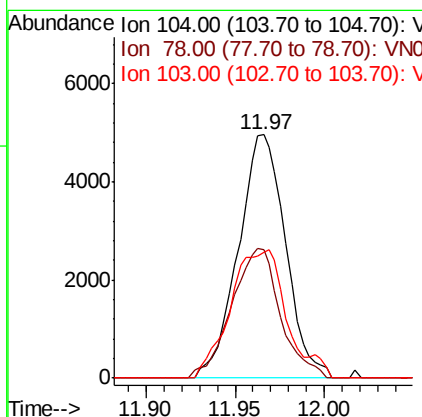
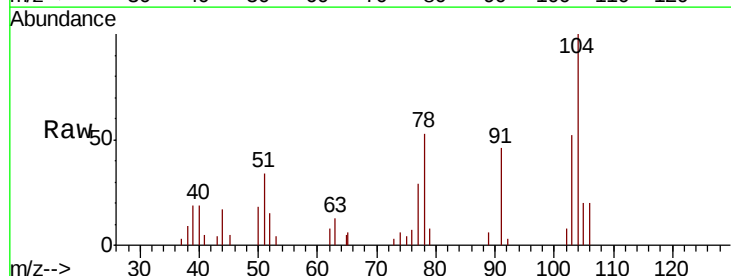
Instrument :  
MSVOA\_N  
ClientSampled :

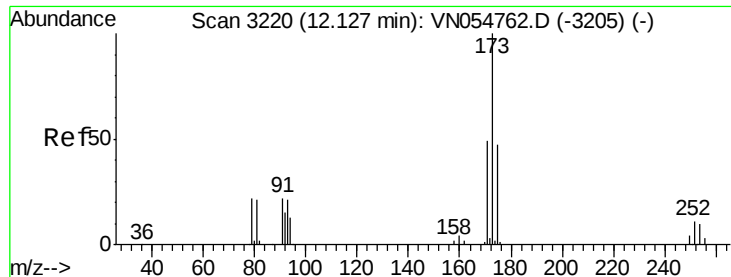
Tot Ion:106 Resp: 6273  
Ion Ratio Lower Upper  
106 100  
91 223.6 105.7 317.1



#70  
Styrene  
Concen: 0.812 ug/l  
RT: 11.97 min Scan# 3170  
Delta R.T. 0.00 min  
Lab File: VN054797.D  
Acq: 30 Mar 2019 12:53

Tgt Ion:104 Resp: 9187  
Ion Ratio Lower Upper  
104 100  
78 55.1 38.2 57.2  
103 62.5 44.4 66.6





#71

Bromoform

Concen: 0.781 ug/l

RT: 12.13 min Scan# 3222

Delta R.T. 0.01 min

Lab File: VN054797.D

Acq: 30 Mar 2019 12:53

Instrument :

MSVOA\_N

ClientSampleId :

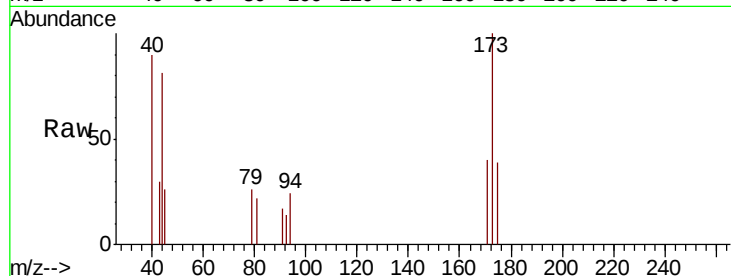
Tot Ion:173 Resp: 1852

Ion Ratio Lower Upper

173 100

175 49.1 24.4 73.2

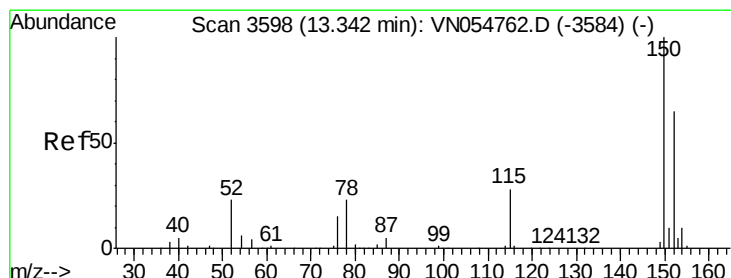
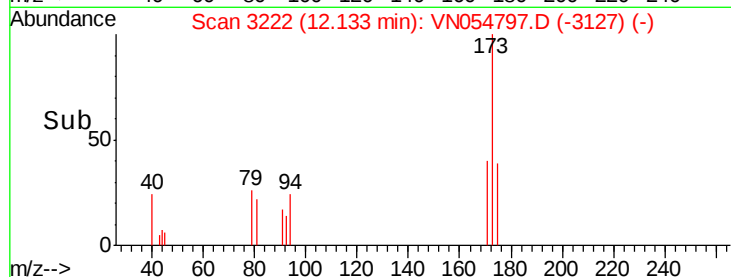
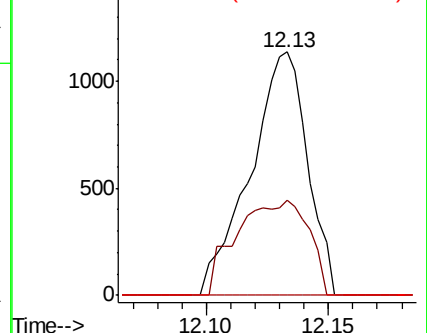
254 0.0 0.1 0.1#



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# 3599

Delta R.T. 0.00 min

Lab File: VN054797.D

Acq: 30 Mar 2019 12:53

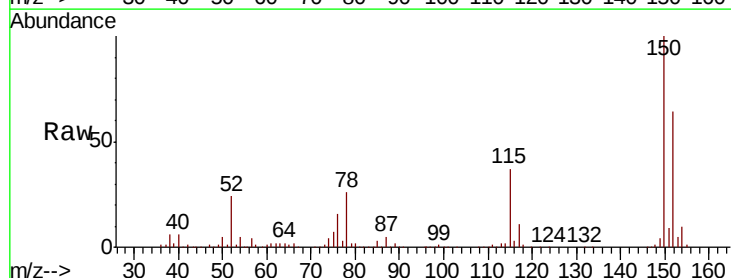
Tgt Ion:152 Resp: 193976

Ion Ratio Lower Upper

152 100

115 58.5 27.2 81.6

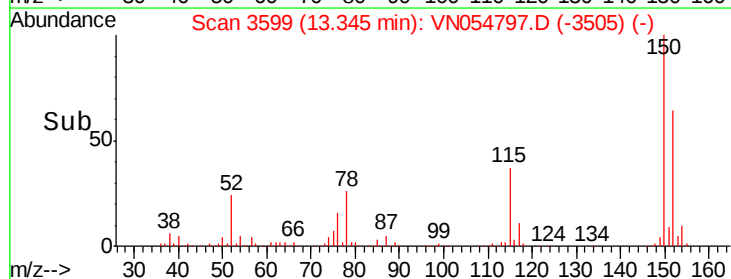
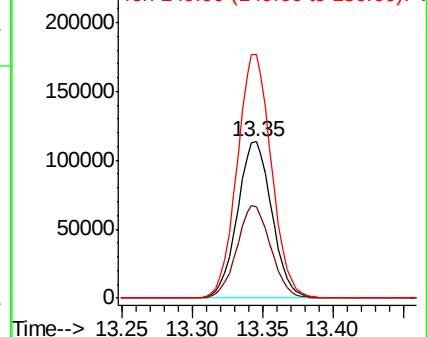
150 154.9 0.0 349.2

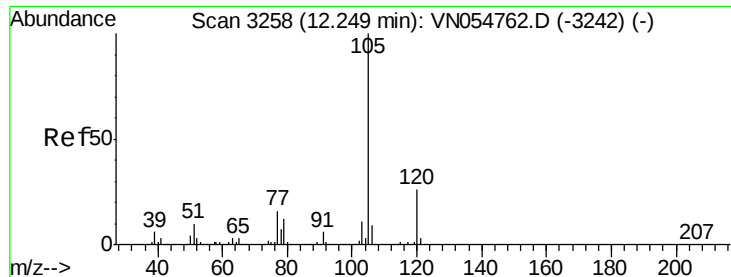


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#73

Isopropylbenzene

Concen: 1.018 ug/l

RT: 12.25 min Scan# 3258

Delta R.T. -0.00 min

Lab File: VN054797.D

Acq: 30 Mar 2019 12:53

Instrument :

MSVOA\_N

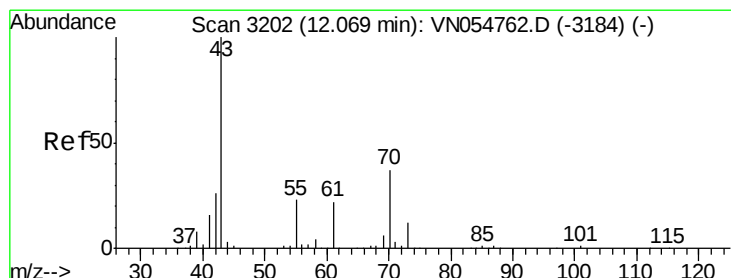
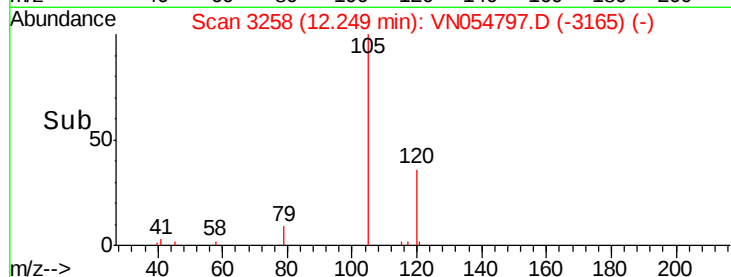
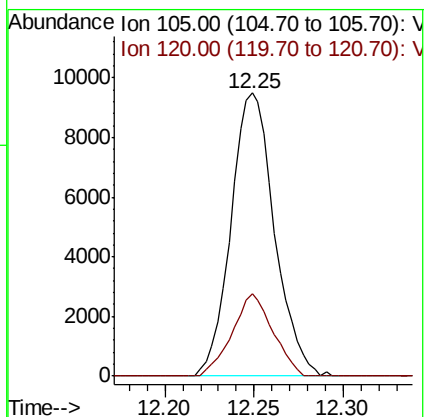
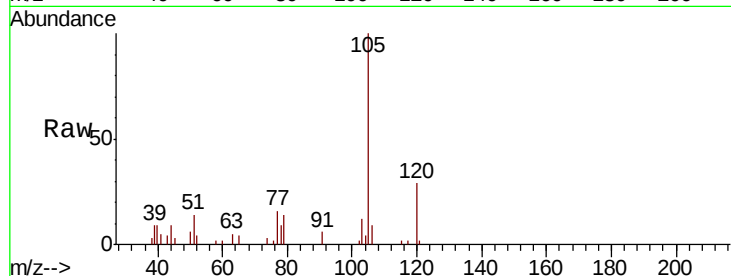
ClientSampled :

Tot Ion:105 Resp: 16141

Ion Ratio Lower Upper

105 100

120 27.1 13.8 41.3



#74

N-ethyl acetate

Concen: 0.894 ug/l

RT: 12.07 min Scan# 3203

Delta R.T. 0.00 min

Lab File: VN054797.D

Acq: 30 Mar 2019 12:53

Tgt Ion: 43 Resp: 4415

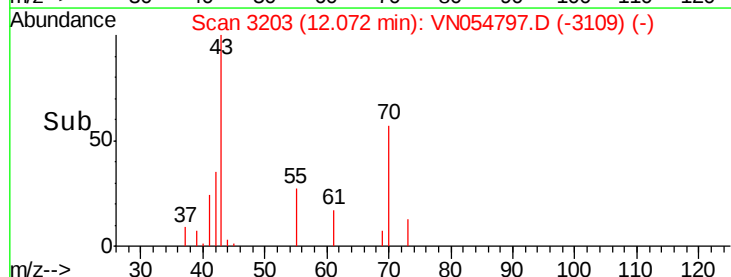
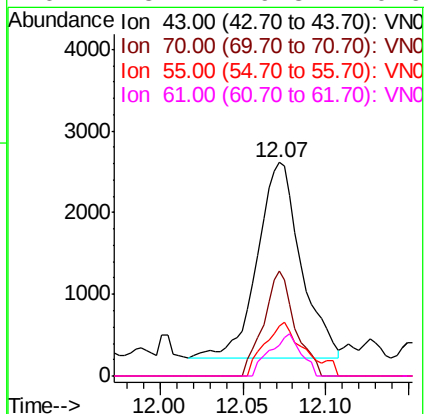
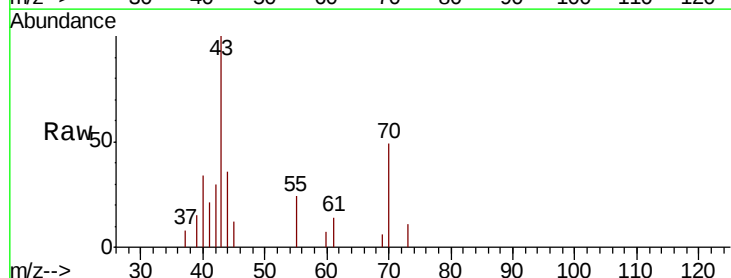
Ion Ratio Lower Upper

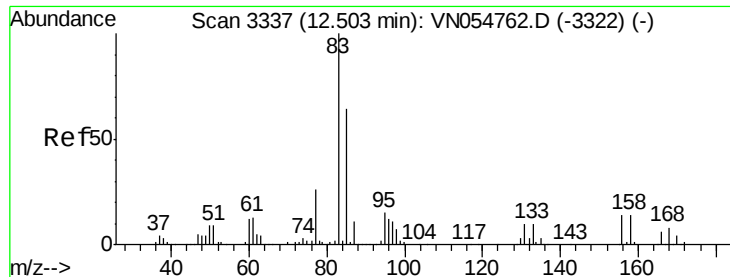
43 100

70 38.7 35.4 53.0

55 25.1 19.8 29.6

61 15.2 19.8 29.6#





#75

1,1,2,2-Tetrachloroethane

Concen: Below Cal

RT: 12.50 min Scan# 3337

Delta R.T. 0.00 min

Lab File: VN054797.D

Acq: 30 Mar 2019 12:53

Instrument :

MSVOA\_N

ClientSampleId :

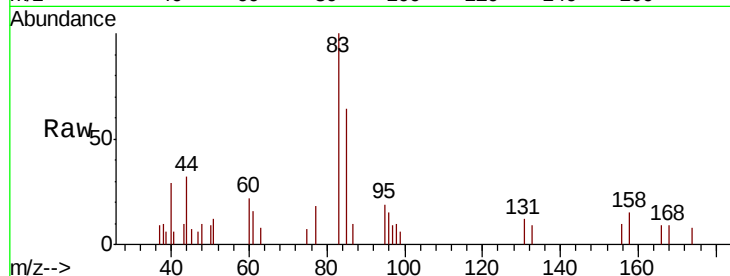
Tot Ion: 83 Resp: 4345

Ion Ratio Lower Upper

83 100

131 8.8 5.8 17.4

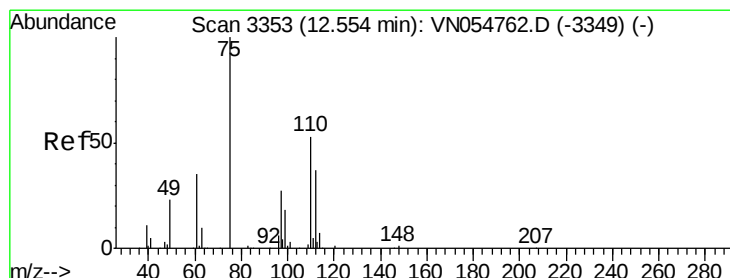
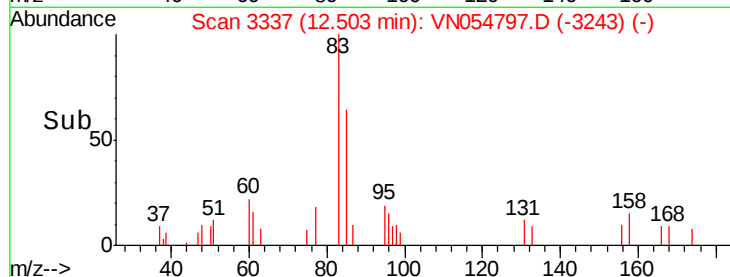
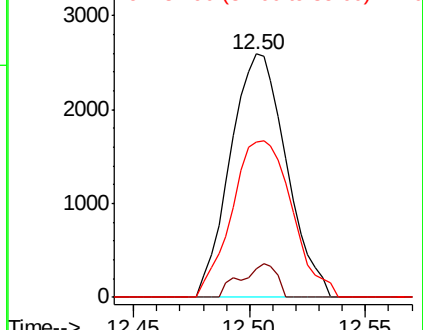
85 69.2 32.2 96.6



Abundance Ion 82.90 (82.60 to 83.60): VN0

Ion 130.80 (130.50 to 131.50): VN0

Ion 84.90 (84.60 to 85.60): VN0



#76

1,2,3-Trichloropropane

Concen: 38.432 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. -0.15 min

Lab File: VN054797.D

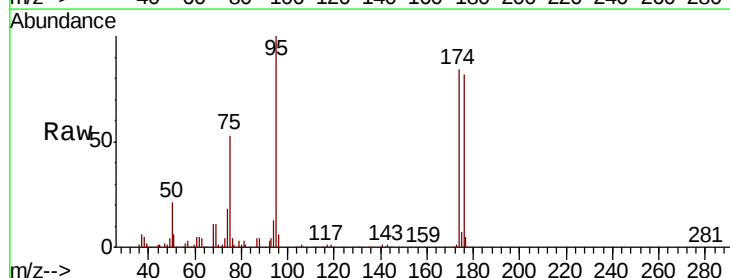
Acq: 30 Mar 2019 12:53

Tgt Ion: 75 Resp: 129510

Ion Ratio Lower Upper

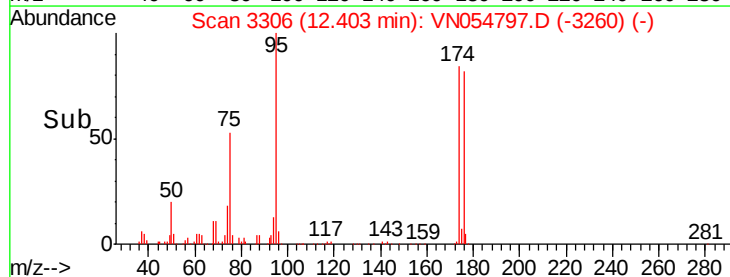
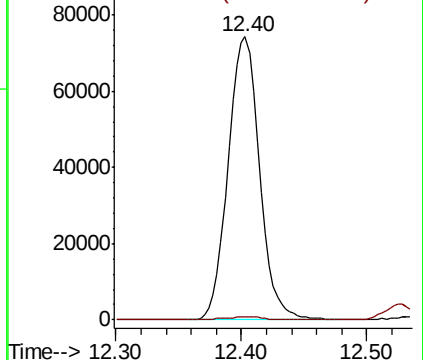
75 100

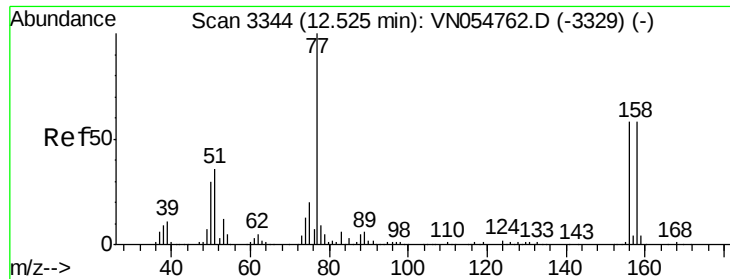
77 1.2 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0





#77

Bromobenzene

Concen: 0.981 ug/l

RT: 12.53 min Scan# 3345

Delta R.T. 0.00 min

Lab File: VN054797.D

Acq: 30 Mar 2019 12:53

Instrument :

MSVOA\_N

ClientSampleId :

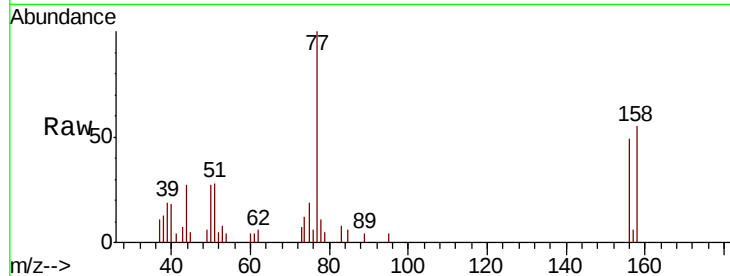
Tot Ion:156 Resp: 3753

Ion Ratio Lower Upper

156 100

77 226.9 81.5 244.4

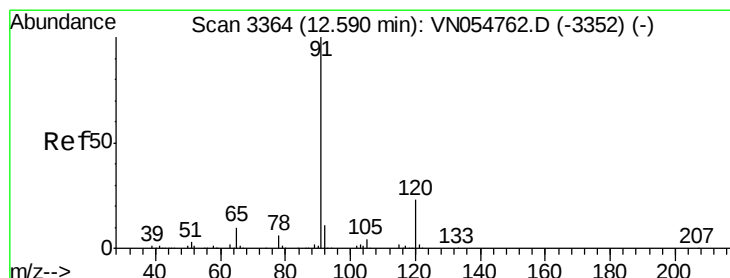
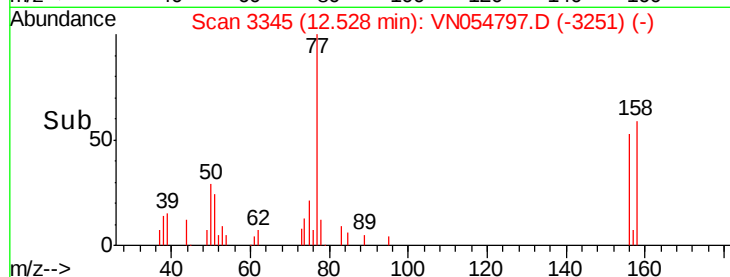
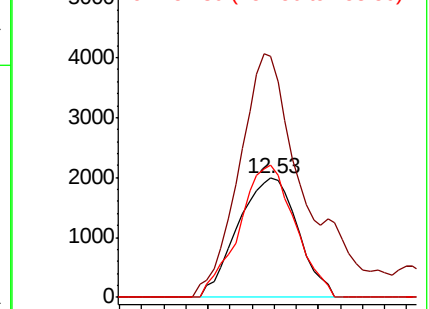
158 103.1 49.0 147.2



Abundance Ion 155.80 (155.50 to 156.50): V

Ion 77.00 (76.70 to 77.70): VN0

Ion 157.80 (157.50 to 158.50): V



#78

n-propylbenzene

Concen: 1.019 ug/l

RT: 12.59 min Scan# 3364

Delta R.T. -0.00 min

Lab File: VN054797.D

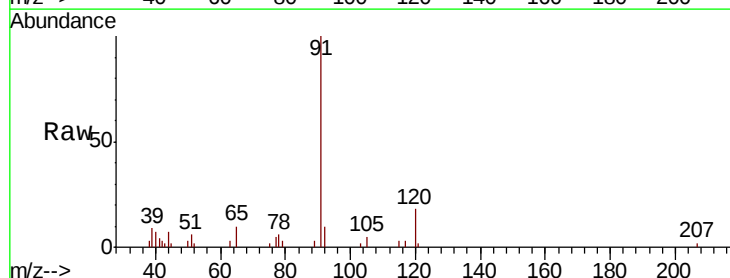
Acq: 30 Mar 2019 12:53

Tgt Ion: 91 Resp: 17752

Ion Ratio Lower Upper

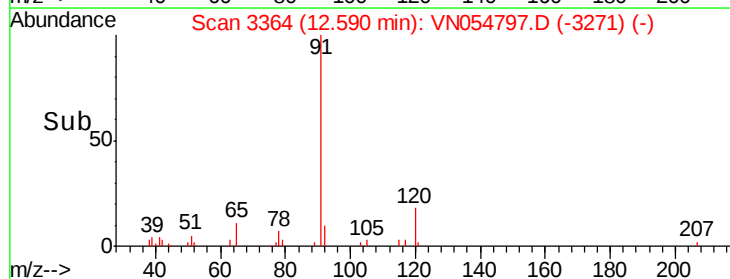
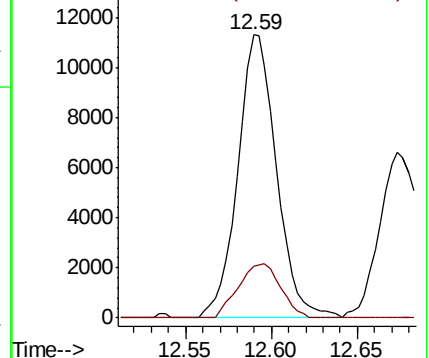
91 100

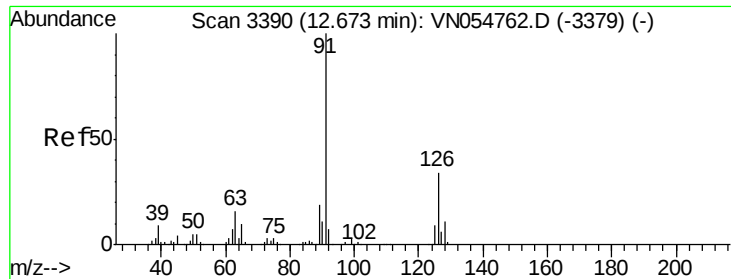
120 20.7 12.3 36.9



Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 120.00 (119.70 to 120.70): V





#79

2-Chlorotoluene

Concen: 1.038 ug/l

RT: 12.67 min Scan# 3390

Delta R.T. -0.00 min

Lab File: VN054797.D

Acq: 30 Mar 2019 12:53

Instrument :

MSVOA\_N

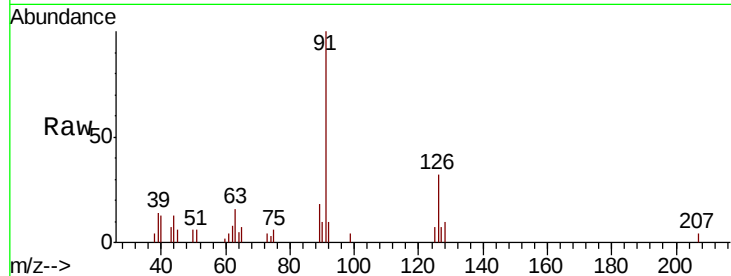
ClientSampleId :

Tot Ion: 91 Resp: 11196

Ion Ratio Lower Upper

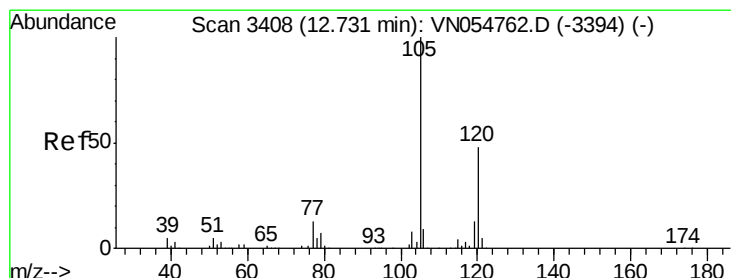
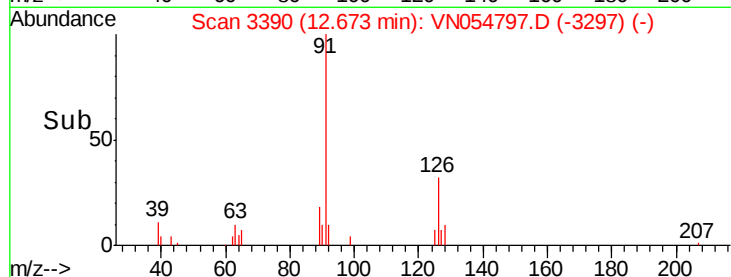
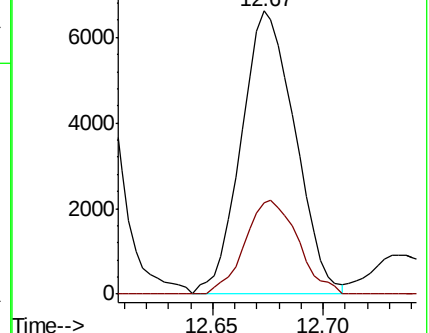
91 100

126 32.7 18.7 56.1



Abundance Ion 91.00 (90.70 to 91.70): VN054762.D (-3379) (-)

Ion 125.90 (125.60 to 126.60): VN054762.D (-3379) (-)



#80

1,3,5-Trimethylbenzene

Concen: 0.963 ug/l

RT: 12.73 min Scan# 3408

Delta R.T. -0.00 min

Lab File: VN054797.D

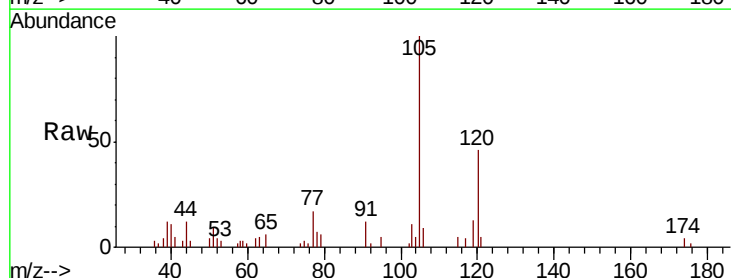
Acq: 30 Mar 2019 12:53

Tgt Ion: 105 Resp: 12525

Ion Ratio Lower Upper

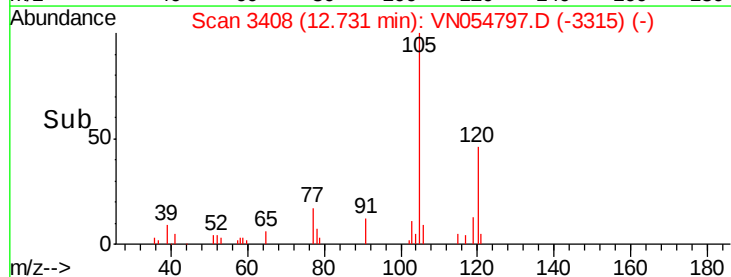
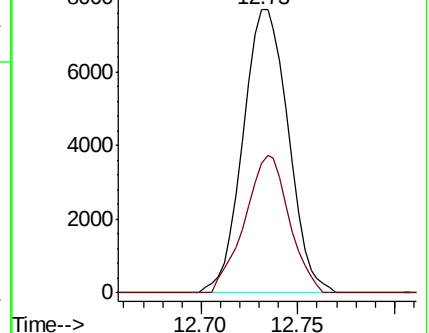
105 100

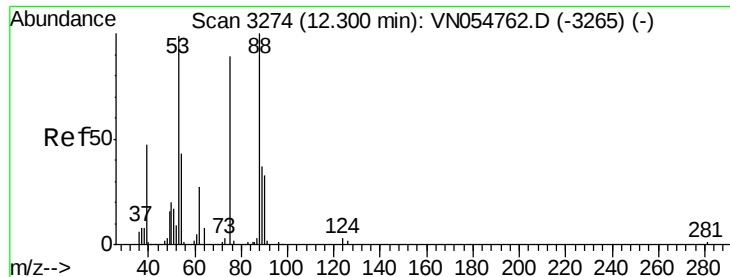
120 47.7 25.0 75.0



Abundance Ion 105.00 (104.70 to 105.70): VN054762.D (-3394) (-)

Ion 120.00 (119.70 to 120.70): VN054762.D (-3394) (-)





#81

trans-1,4-Dichloro-2-butene

Concen: 149.492 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.10 min

Lab File: VN054797.D

Acq: 30 Mar 2019 12:53

Instrument :

MSVOA\_N

ClientSampleId :

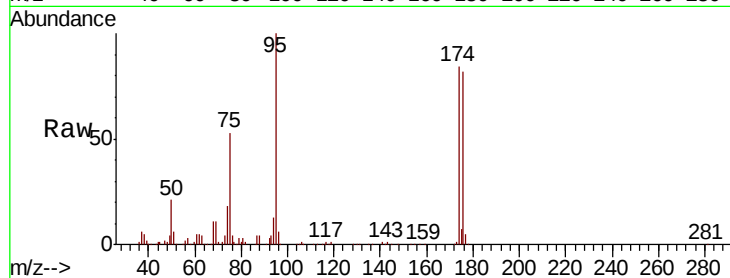
Tot Ion: 75 Resp: 129510

Ion Ratio Lower Upper

75 100

53 0.0 76.2 114.2#

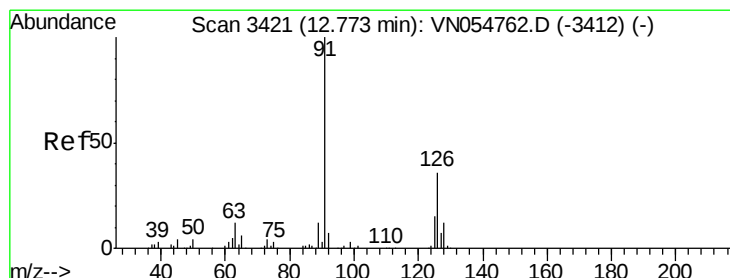
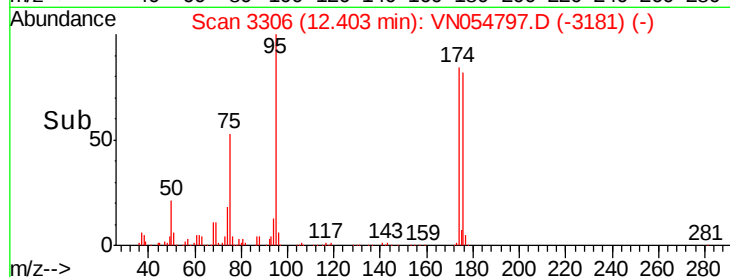
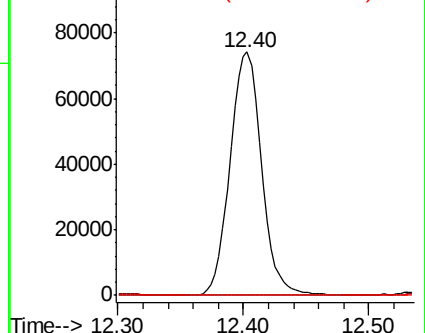
89 0.0 39.2 58.8#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 53.00 (52.70 to 53.70): VN0

Ion 88.90 (88.60 to 89.60): VN0



#82

4-Chlorotoluene

Concen: 1.036 ug/l

RT: 12.77 min Scan# 3421

Delta R.T. -0.00 min

Lab File: VN054797.D

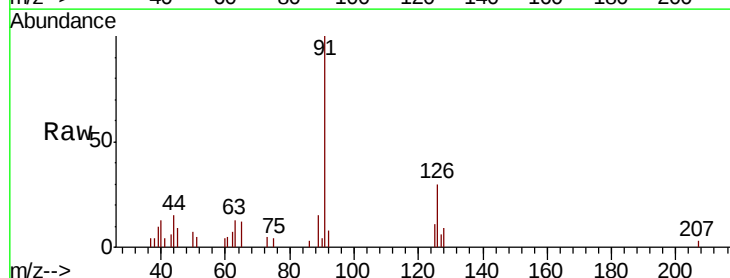
Acq: 30 Mar 2019 12:53

Tgt Ion: 91 Resp: 10848

Ion Ratio Lower Upper

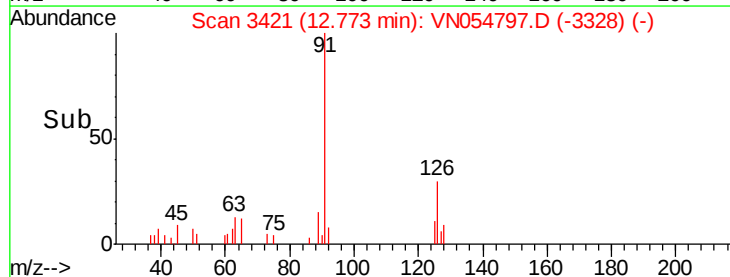
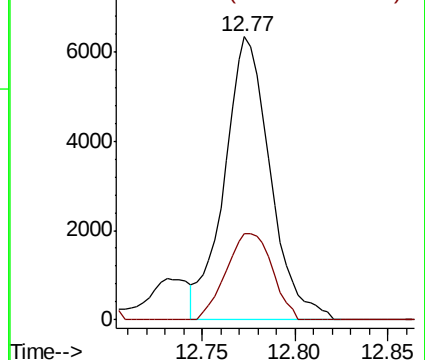
91 100

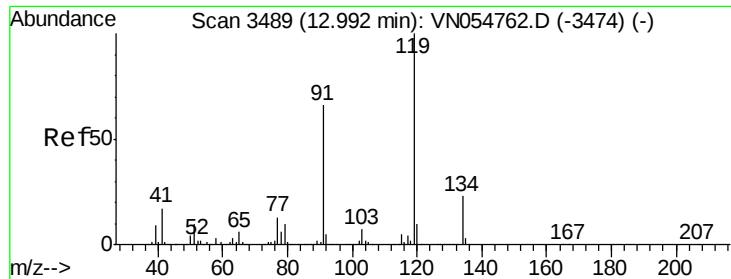
126 30.7 18.1 54.1



Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 125.90 (125.60 to 126.60): V

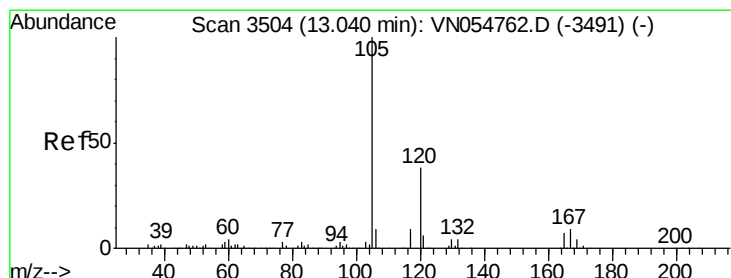
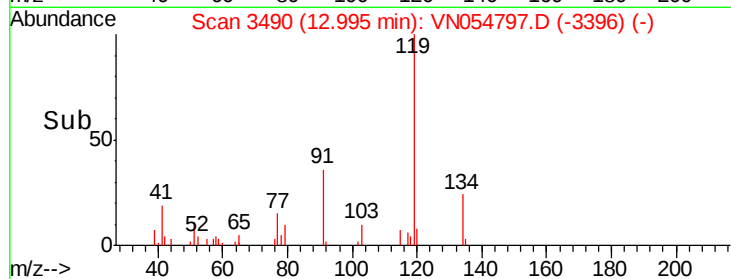
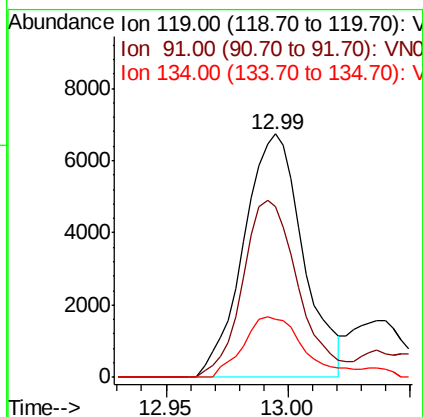
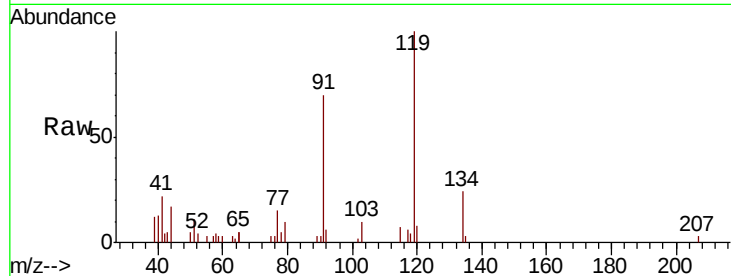




#83  
tert-Butylbenzene  
Concen: Below Cal  
RT: 12.99 min Scan# 3490  
Delta R.T. 0.00 min  
Lab File: VN054797.D  
Acq: 30 Mar 2019 12:53

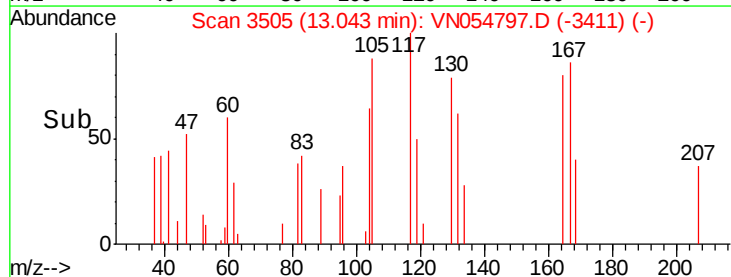
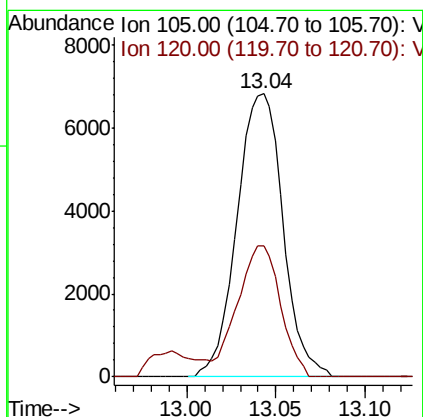
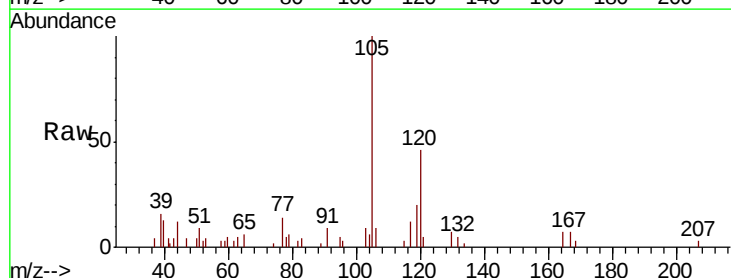
Instrument :  
MSVOA\_N  
ClientSampleId :

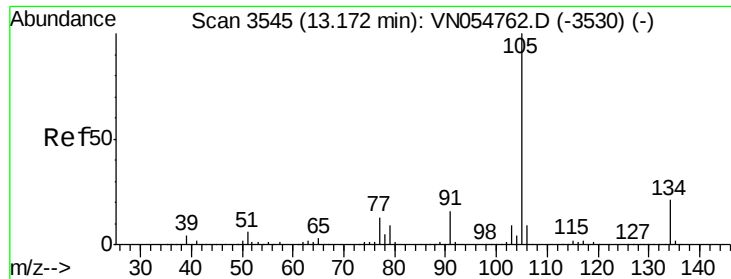
Tot Ion:119 Resp: 11391  
Ion Ratio Lower Upper  
119 100  
91 68.2 30.9 92.8  
134 25.2 13.2 39.6



#84  
1,2,4-Trimethylbenzene  
Concen: 0.987 ug/l  
RT: 13.04 min Scan# 3505  
Delta R.T. 0.00 min  
Lab File: VN054797.D  
Acq: 30 Mar 2019 12:53

Tgt Ion:105 Resp: 12238  
Ion Ratio Lower Upper  
105 100  
120 43.3 23.4 70.3

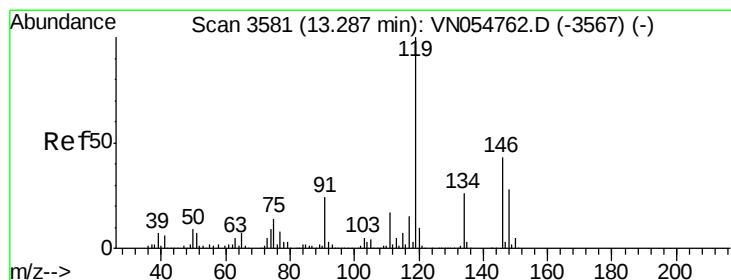
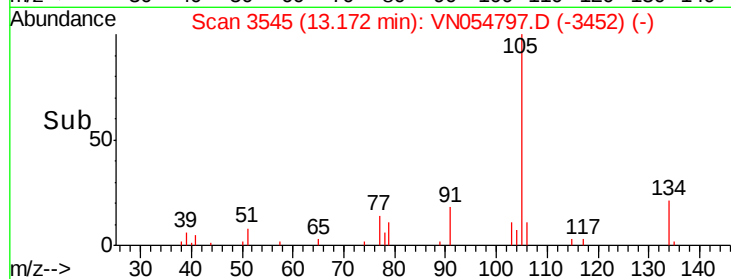
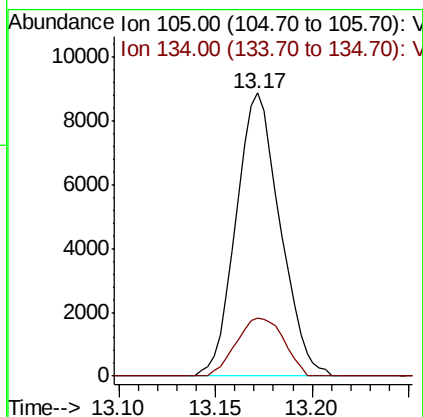
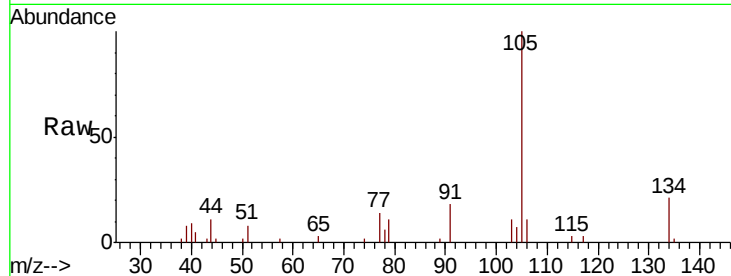




#85  
 sec-Butylbenzene  
 Concen: 0.995 ug/l  
 RT: 13.17 min Scan# 3545  
 Delta R.T. -0.00 min  
 Lab File: VN054797.D  
 Acq: 30 Mar 2019 12:53

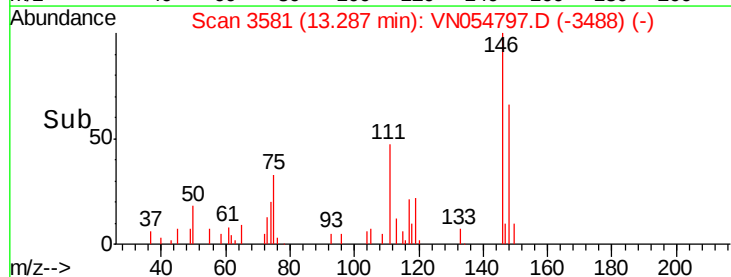
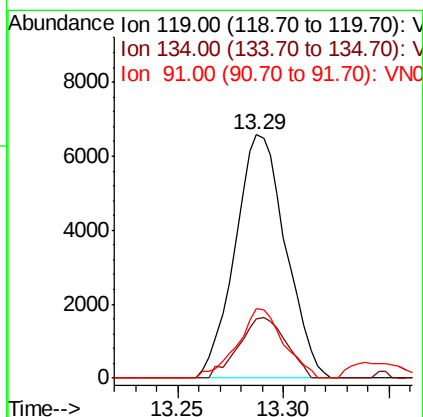
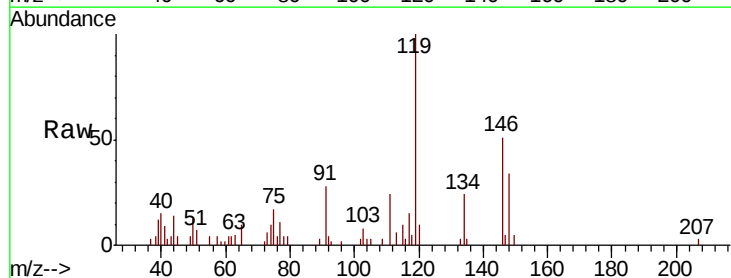
Instrument :  
 MSVOA\_N  
 ClientSampleId :

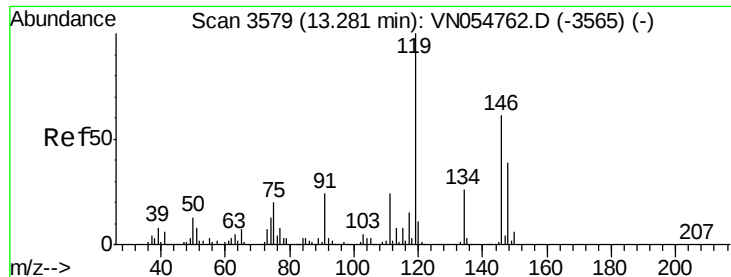
Tot Ion:105 Resp: 14067  
 Ion Ratio Lower Upper  
 105 100  
 134 22.2 10.7 32.1



#86  
 p-Isopropyltoluene  
 Concen: 0.880 ug/l  
 RT: 13.29 min Scan# 3581  
 Delta R.T. -0.00 min  
 Lab File: VN054797.D  
 Acq: 30 Mar 2019 12:53

Tgt Ion:119 Resp: 10966  
 Ion Ratio Lower Upper  
 119 100  
 134 23.2 13.6 40.8  
 91 26.0 11.1 33.3





#87

1,3-Dichlorobenzene

Concen: 0.977 ug/l

RT: 13.28 min Scan# 3580

Delta R.T. 0.00 min

Lab File: VN054797.D

Acq: 30 Mar 2019 12:53

Instrument :

MSVOA\_N

ClientSampled :

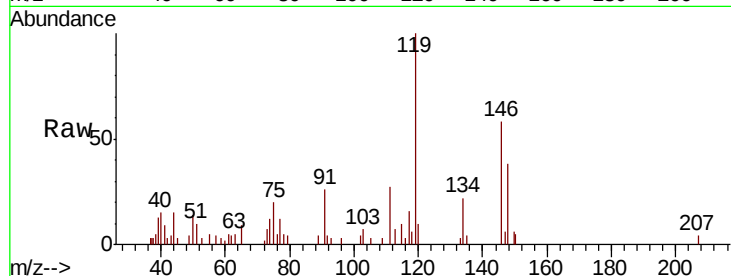
Tot Ion:146 Resp: 6260

Ion Ratio Lower Upper

146 100

111 44.2 18.8 56.3

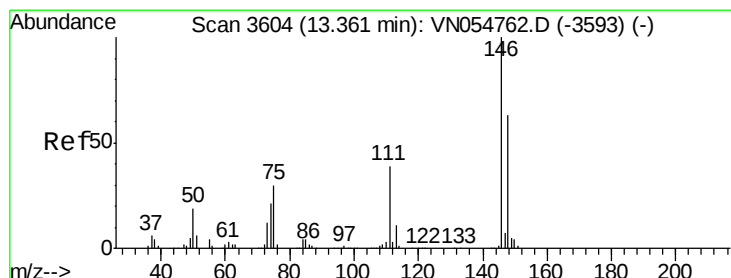
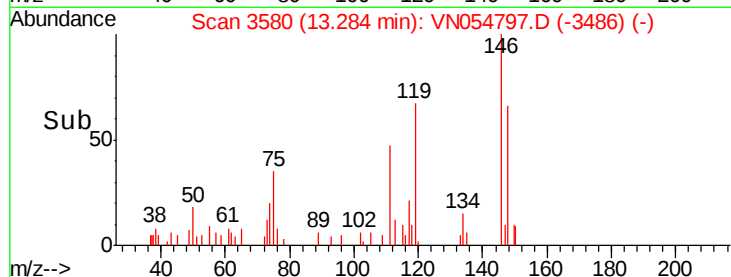
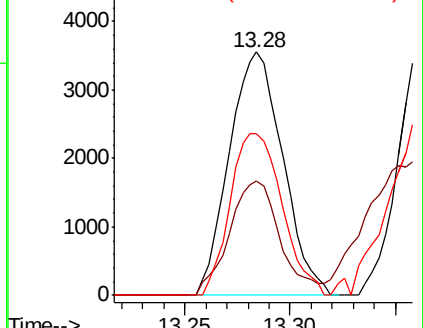
148 64.4 32.2 96.6



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: 0.996 ug/l

RT: 13.28 min Scan# 3580

Delta R.T. -0.08 min

Lab File: VN054797.D

Acq: 30 Mar 2019 12:53

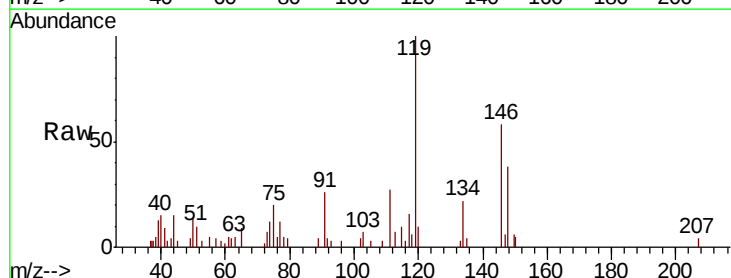
Tgt Ion:146 Resp: 6260

Ion Ratio Lower Upper

146 100

111 44.2 18.1 54.1

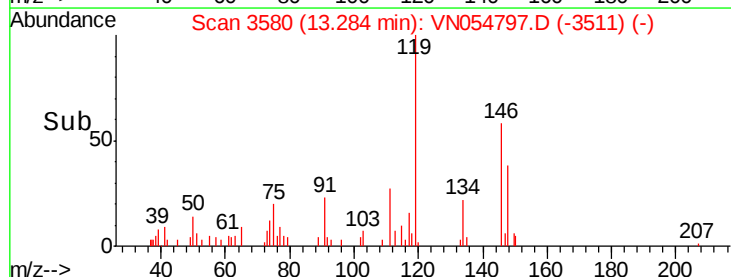
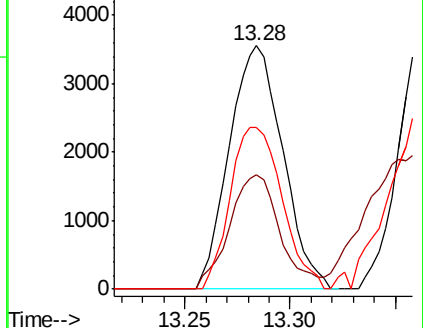
148 64.4 32.0 96.0

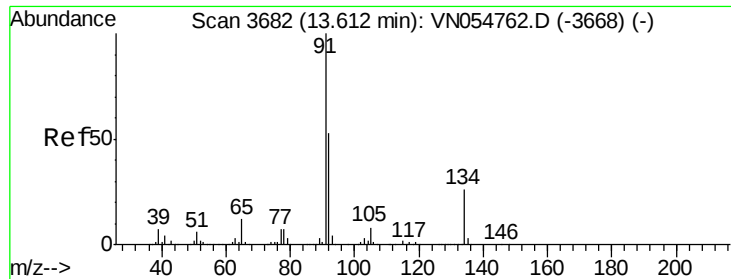


Abundance Ion 145.90 (145.60 to 146.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V





#89

n-Butylbenzene

Concen: 0.781 ug/l

RT: 13.62 min Scan# 3683

Delta R.T. 0.00 min

Lab File: VN054797.D

Acq: 30 Mar 2019 12:53

Instrument :

MSVOA\_N

ClientSampleId :

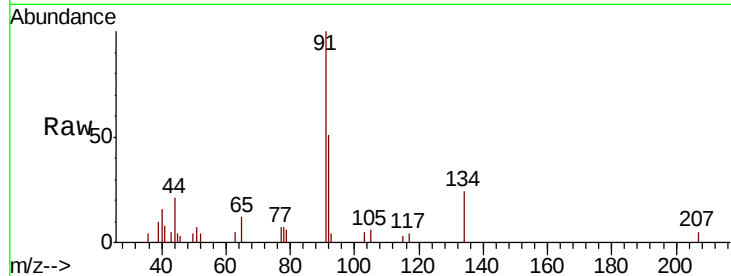
Tot Ion: 91 Resp: 7946

Ion Ratio Lower Upper

91 100

92 49.2 26.2 78.6

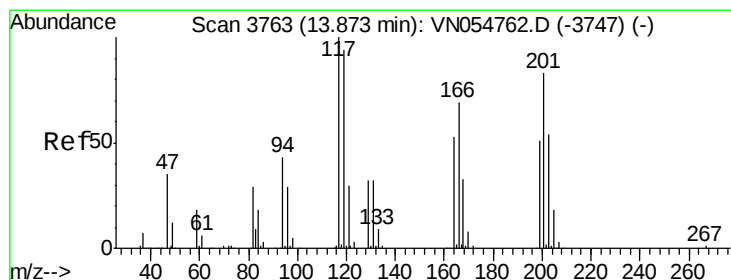
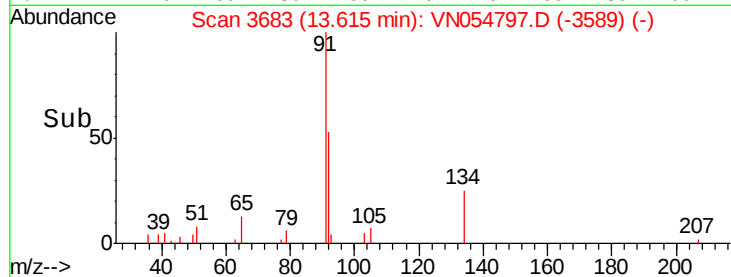
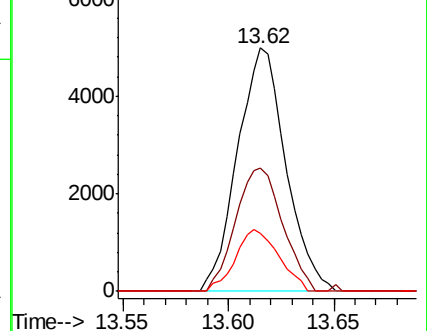
134 22.8 14.3 42.9



Abundance Ion 91.00 (90.70 to 91.70): VN054762.D (-3668) (-)

Ion 92.00 (91.70 to 92.70): VN054762.D (-3668) (-)

Ion 134.00 (133.70 to 134.70): VN054762.D (-3668) (-)



#90

Hexachloroethane

Concen: 0.922 ug/l

RT: 13.88 min Scan# 3764

Delta R.T. 0.00 min

Lab File: VN054797.D

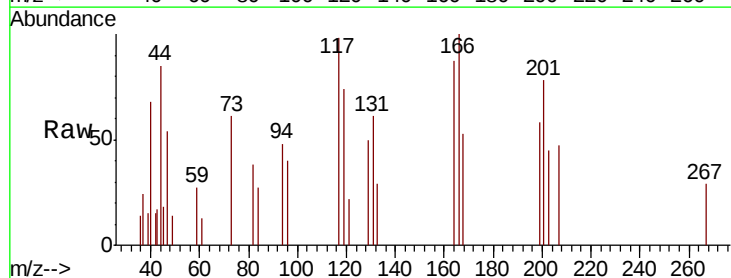
Acq: 30 Mar 2019 12:53

Tgt Ion: 117 Resp: 1951

Ion Ratio Lower Upper

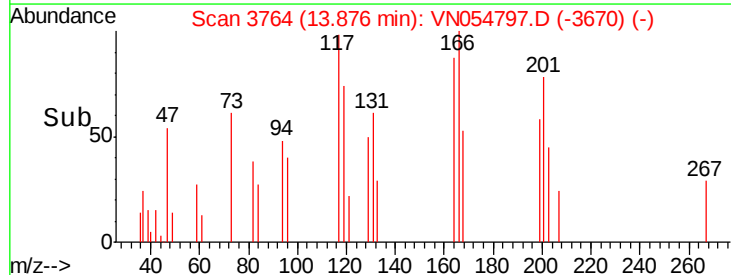
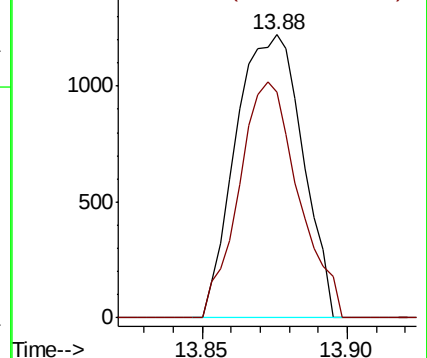
117 100

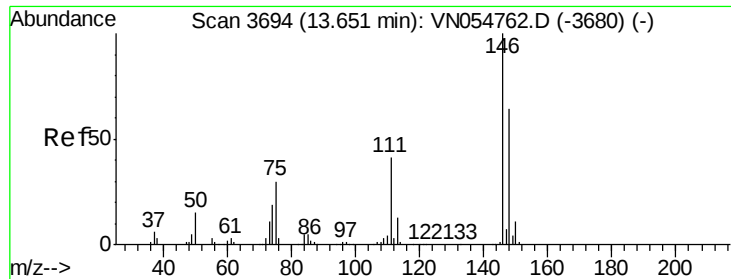
201 74.9 48.1 144.4



Abundance Ion 116.80 (116.50 to 117.50): VN054762.D (-3747) (-)

Ion 200.70 (200.40 to 201.40): VN054762.D (-3747) (-)





#91

1,2-Dichlorobenzene

Concen: 1.034 ug/l

RT: 13.65 min Scan# 3694

Delta R.T. -0.00 min

Lab File: VN054797.D

Acq: 30 Mar 2019 12:53

Instrument :

MSVOA\_N

ClientSampled :

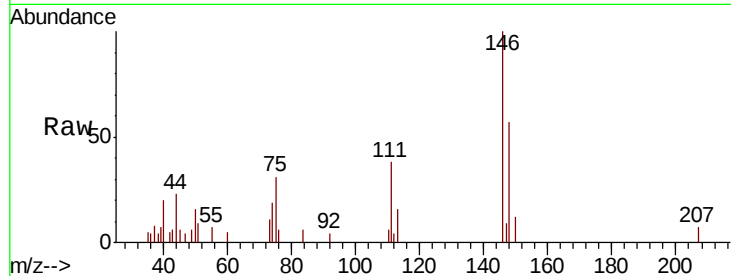
Tot Ion:146 Resp: 6683

Ion Ratio Lower Upper

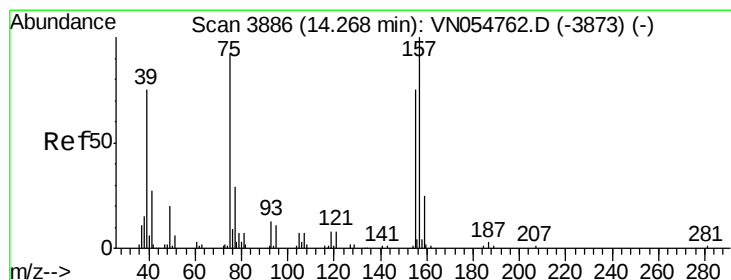
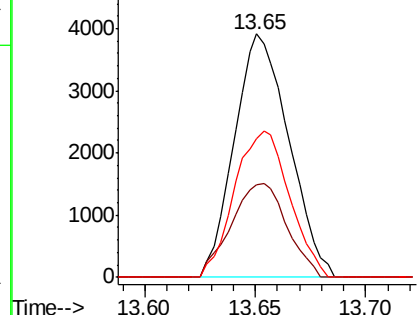
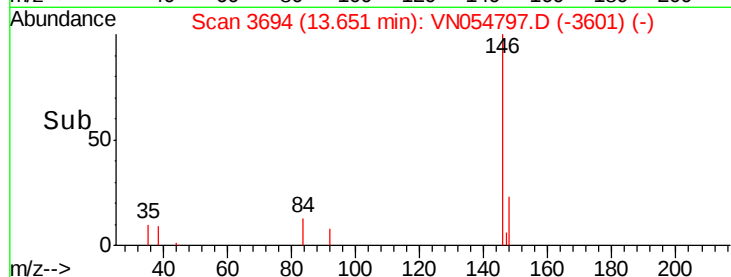
146 100

111 39.3 19.1 57.3

148 60.8 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



#92

1,2-Dibromo-3-Chloropropane

Concen: 0.769 ug/l

RT: 14.27 min Scan# 3888

Delta R.T. 0.01 min

Lab File: VN054797.D

Acq: 30 Mar 2019 12:53

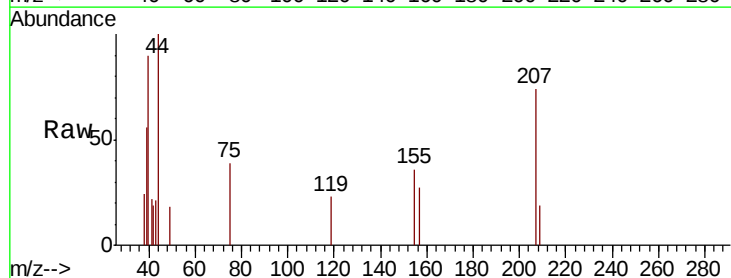
Tgt Ion: 75 Resp: 417

Ion Ratio Lower Upper

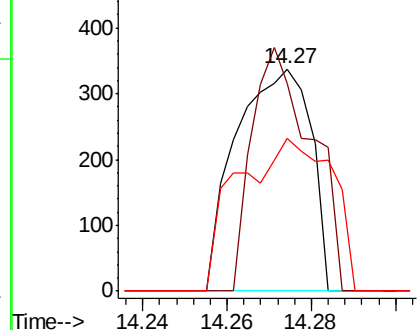
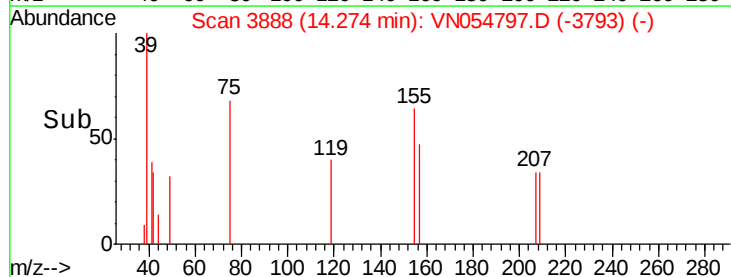
75 100

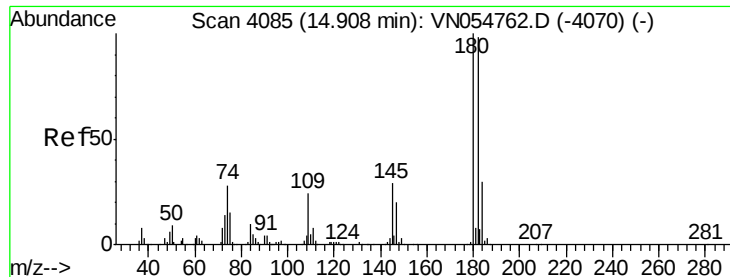
155 87.3 50.1 150.3

157 86.8 63.1 189.3



Abundance Ion 74.90 (74.60 to 75.60): V  
Ion 154.80 (154.50 to 155.50): V  
Ion 156.80 (156.50 to 157.50): V

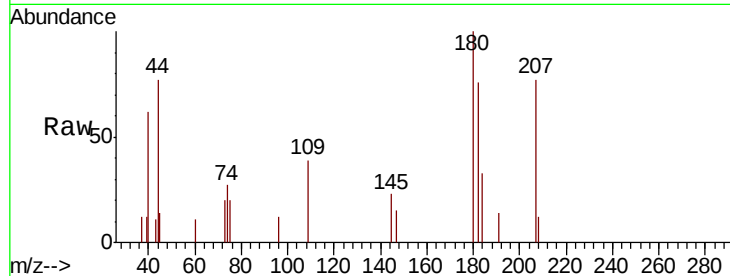




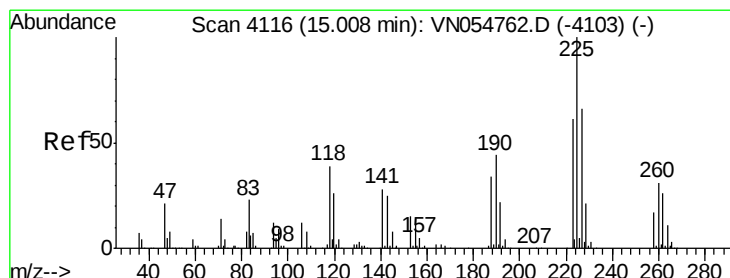
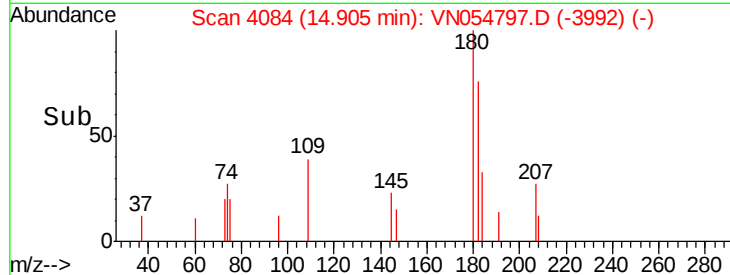
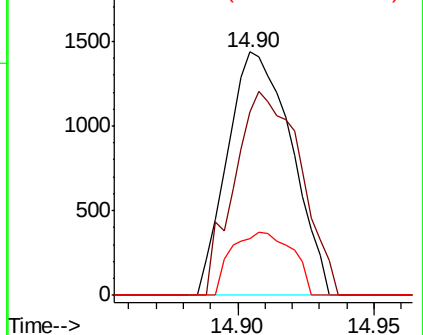
#93  
 1,2,4-Trichlorobenzene  
 Concen: 0.752 ug/l  
 RT: 14.90 min Scan# 4084  
 Delta R.T. -0.00 min  
 Lab File: VN054797.D  
 Acq: 30 Mar 2019 12:53

Instrument :  
 MSVOA\_N  
 ClientSampleId :

Tot Ion:180 Resp: 2343  
 Ion Ratio Lower Upper  
 180 100  
 182 86.8 48.0 144.2  
 145 24.6 14.2 42.8

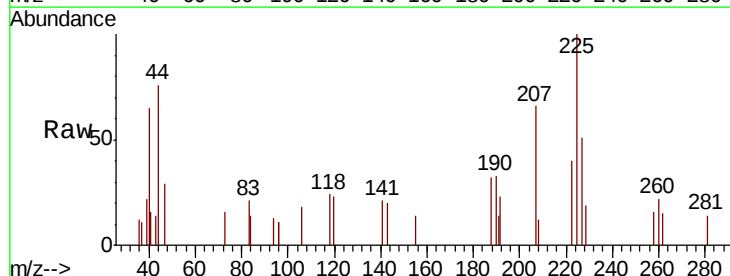


Abundance Ion 179.80 (179.50 to 180.50): V  
 Ion 181.80 (181.50 to 182.50): V  
 Ion 144.80 (144.50 to 145.50): V

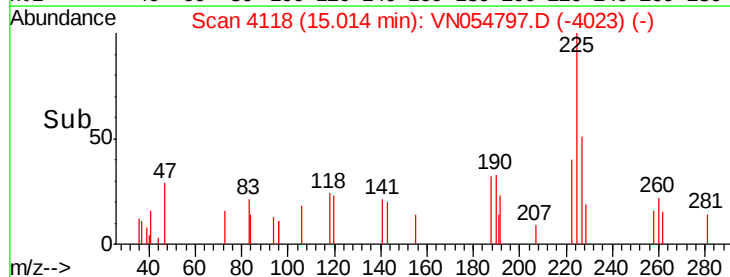
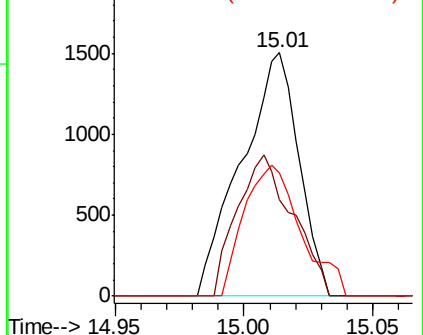


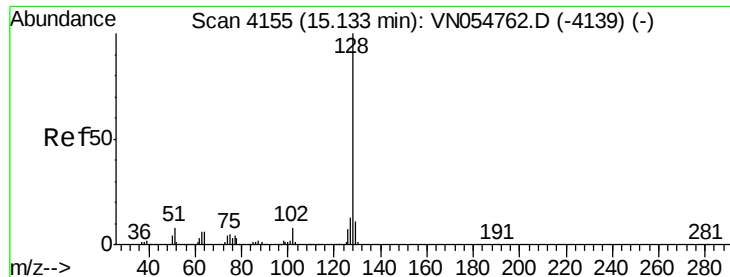
#94  
 Hexachlorobutadiene  
 Concen: Below Cal  
 RT: 15.01 min Scan# 4118  
 Delta R.T. 0.01 min  
 Lab File: VN054797.D  
 Acq: 30 Mar 2019 12:53

Tgt Ion:225 Resp: 2337  
 Ion Ratio Lower Upper  
 225 100  
 223 56.1 31.1 93.5  
 227 53.4 31.9 95.9



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: 0.838 ug/l

RT: 15.14 min Scan# 4156

Delta R.T. 0.00 min

Lab File: VN054797.D

Acq: 30 Mar 2019 12:53

Instrument :

MSVOA\_N

ClientSampleId :

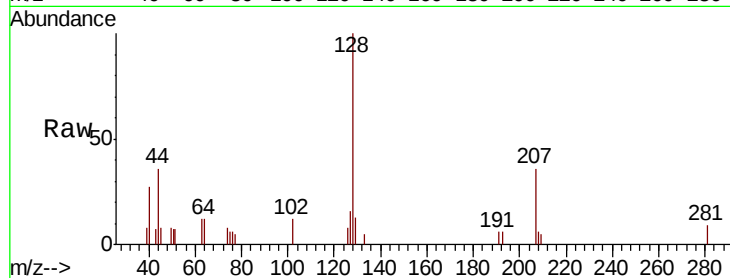
Tot Ion:128 Resp: 5862

Ion Ratio Lower Upper

128 100

127 11.4 10.1 15.1

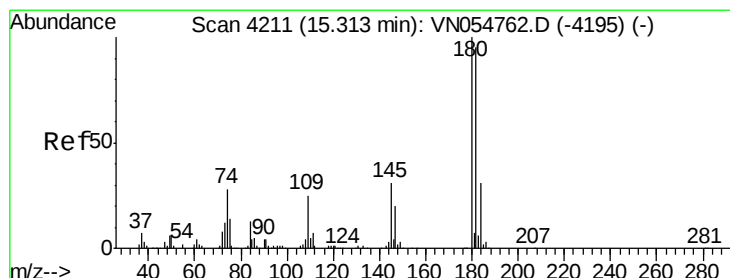
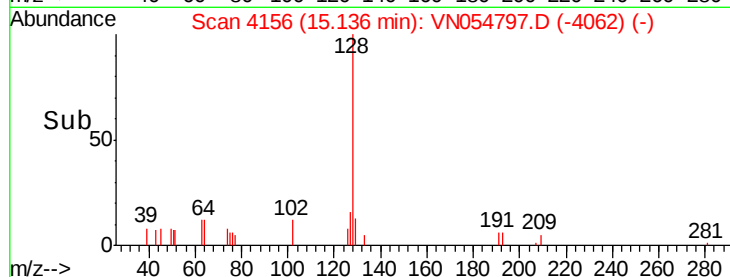
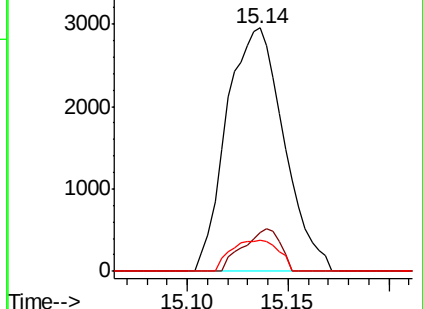
129 10.6 8.7 13.1



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V



#96

1,2,3-Trichlorobenzene

Concen: 0.830 ug/l

RT: 15.31 min Scan# 4210

Delta R.T. -0.00 min

Lab File: VN054797.D

Acq: 30 Mar 2019 12:53

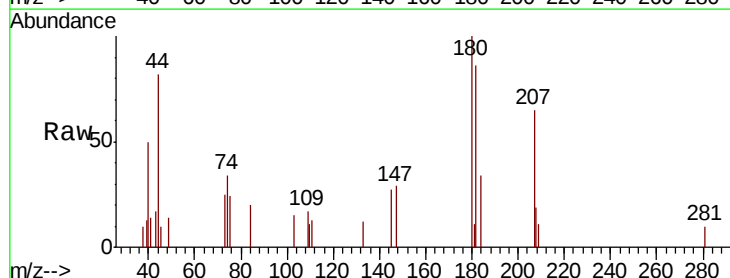
Tgt Ion:180 Resp: 2612

Ion Ratio Lower Upper

180 100

182 90.4 47.5 142.6

145 37.4 14.8 44.3



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

