

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN050919\  
 Data File : VN055501.D  
 Acq On : 9 May 2019 16:54  
 Operator : JC/SP  
 Sample : K2751-18  
 Misc : 5.00mL/MSVOA N/WATER  
 ALS Vial : 18 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 COMP-2

Quant Time: May 10 04:14:35 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N050819W.M  
 Quant Title : SW846 8260  
 QLast Update : Thu May 09 04:17:44 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.67  | 168  | 861646   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.59  | 114  | 1443630  | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.41 | 117  | 1208506  | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.34 | 152  | 393964   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units  | Dev(Min) |
|-----------------------------|-------|------|----------|-------|--------|----------|
| 33) 1,2-Dichloroethane-d4   | 8.03  | 65   | 595894   | 45.93 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 91.86% |          |
| 35) Dibromofluoromethane    | 7.59  | 113  | 447045   | 48.00 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 96.00% |          |
| 50) Toluene-d8              | 10.09 | 98   | 1767355  | 48.70 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 97.40% |          |
| 62) 4-Bromofluorobenzene    | 12.40 | 95   | 535118   | 43.73 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 87.46% |          |

| Target Compounds               | R.T.  | QIon | Response | Conc      | Units  | Qvalue |
|--------------------------------|-------|------|----------|-----------|--------|--------|
| 11) Tert butyl alcohol         | 4.81  | 59   | 341037   | 178.036   | ug/l   | 99     |
| 13) Acrolein                   | 3.61  | 56   | 1946     | 1.524     | ug/l # | 42     |
| 14) Allyl chloride             | 4.27  | 41   | 4985     | 0.258     | ug/l # | 28     |
| 16) Acetone                    | 3.82  | 43   | 1121033  | 186.617   | ug/l   | 99     |
| 17) Carbon Disulfide           | 4.05  | 76   | 55395    | 2.155     | ug/l   | 98     |
| 18) Methyl Acetate             | 4.34  | 43   | 57663    | 3.547     | ug/l   | 96     |
| 25) 2-Butanone                 | 6.84  | 43   | 328369   | 39.572    | ug/l   | 100    |
| 27) cis-1,2-Dichloroethene     | 6.83  | 96   | 5542     | 0.470     | ug/l   | 85     |
| 31) Cyclohexane                | 7.67  | 56   | 19347    | 0.924     | ug/l # | 1      |
| 36) 1,1-Dichloropropene        | 7.67  | 75   | 67322    | 4.734     | ug/l # | 50     |
| 37) Ethyl Acetate              | 6.84  | 43   | 328369   | 21.166    | ug/l # | 74     |
| 38) Carbon Tetrachloride       | 7.67  | 117  | 80962    | 6.761     | ug/l # | 15     |
| 41) Methacrylonitrile          | 7.20  | 41   | 14752    | 2.049     | ug/l # | 43     |
| 48) Methyl methacrylate        | 9.20  | 41   | 8207     | 0.723     | ug/l # | 43     |
| 49) 1,4-Dioxane                | 9.20  | 88   | 18132    | 81.922    | ug/l   | 88     |
| 51) 4-Methyl-2-Pentanone       | 9.99  | 43   | 309757   | 19.982    | ug/l   | 99     |
| 52) Toluene                    | 10.16 | 92   | 205556   | 8.146     | ug/l   | 97     |
| 59) 2-Hexanone                 | 10.75 | 43   | 46635    | 4.290     | ug/l   | 100    |
| 69) o-Xylene                   | 11.95 | 106  | 4128     | 0.251     | ug/l   | 88     |
| 71) Bromoform                  | 12.40 | 173  | 4320     | 0.748     | ug/l # | 1      |
| 73) Isopropylbenzene           | 12.25 | 105  | 3974     | Below Cal |        | 95     |
| 74) N-amyl acetate             | 12.03 | 43   | 74335    | 4.970     | ug/l # | 46     |
| 75) 1,1,2,2-Tetrachloroethane  | 12.50 | 83   | 1105     | Below Cal | #      | 88     |
| 76) 1,2,3-Trichloropropane     | 12.40 | 75   | 263878   | 24.604    | ug/l # | 100    |
| 78) n-propylbenzene            | 12.59 | 91   | 9084     | 0.215     | ug/l   | 99     |
| 80) 1,3,5-Trimethylbenzene     | 12.73 | 105  | 6968     | 0.221     | ug/l   | 97     |
| 81) trans-1,4-Dichloro-2-buten | 12.40 | 75   | 263878   | 90.785    | ug/l # | 7      |
| 84) 1,2,4-Trimethylbenzene     | 13.04 | 105  | 18588    | 0.643     | ug/l   | 98     |
| 86) p-Isopropyltoluene         | 13.28 | 119  | 9080     | 0.311     | ug/l   | 97     |
| 87) 1,3-Dichlorobenzene        | 13.28 | 146  | 3584     | 0.267     | ug/l   | 98     |
| 88) 1,4-Dichlorobenzene        | 13.28 | 146  | 3584     | 0.271     | ug/l   | 97     |
| 89) n-Butylbenzene             | 13.61 | 91   | 11037    | 0.487     | ug/l   | 97     |
| 91) 1,2-Dichlorobenzene        | 13.65 | 146  | 4529     | 0.338     | ug/l   | 91     |
| 93) 1,2,4-Trichlorobenzene     | 14.91 | 180  | 6004     | 4.168     | ug/l   | 94     |

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Quant Title : SW846 8260  
QLast Update : Thu May 09 04:17:44 2019  
Response via : Initial Calibration

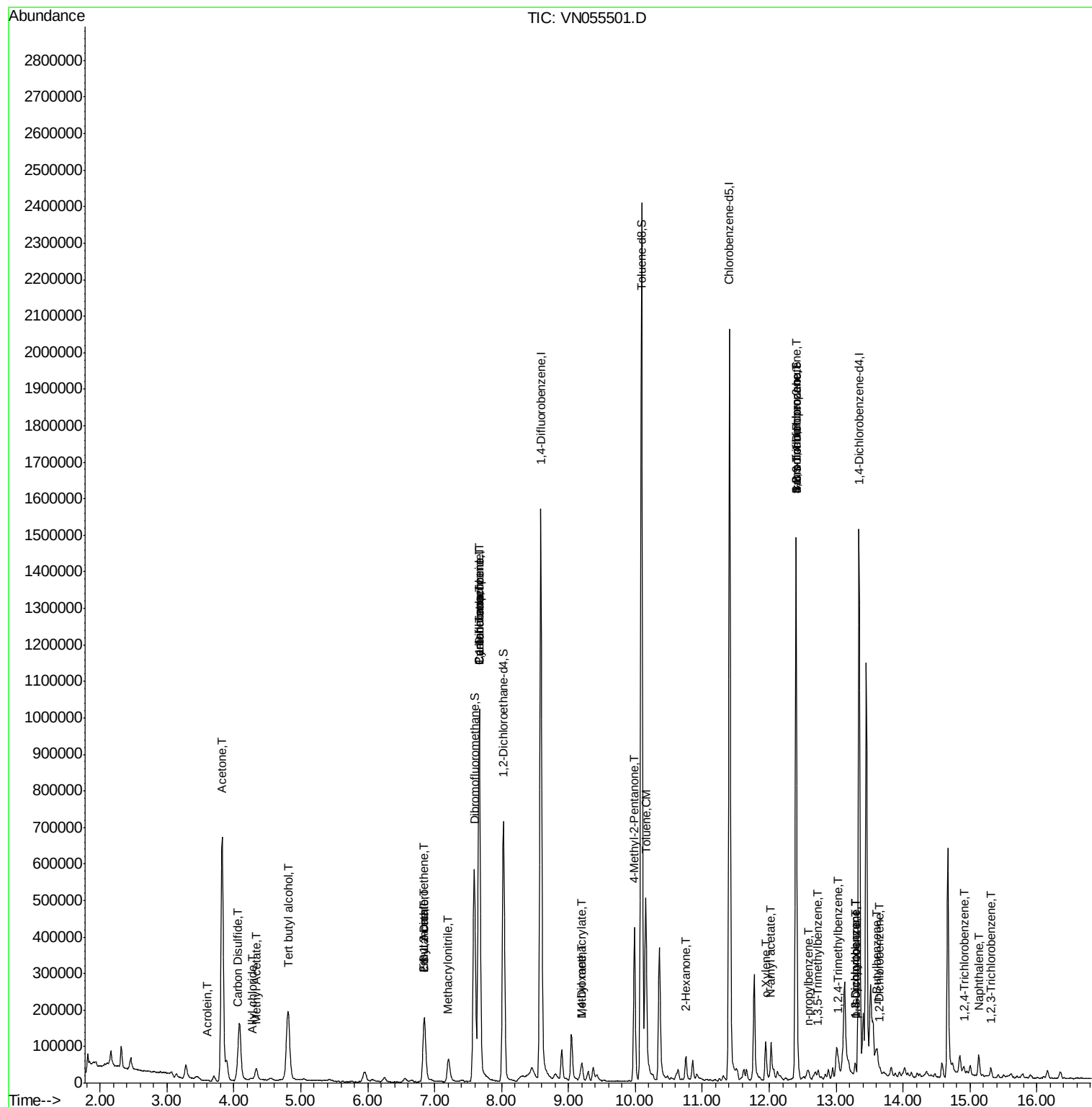
| Internal Standards         | R.T.  | QIon | Response | Conc Units | Dev(Min) |
|----------------------------|-------|------|----------|------------|----------|
| 94) Hexachlorobutadiene    | 15.01 | 225  | 2248     | Below Cal  | 91       |
| 95) Naphthalene            | 15.13 | 128  | 48102    | 5.693 ug/l | 98       |
| 96) 1,2,3-Trichlorobenzene | 15.31 | 180  | 8440     | 3.693 ug/l | 96       |

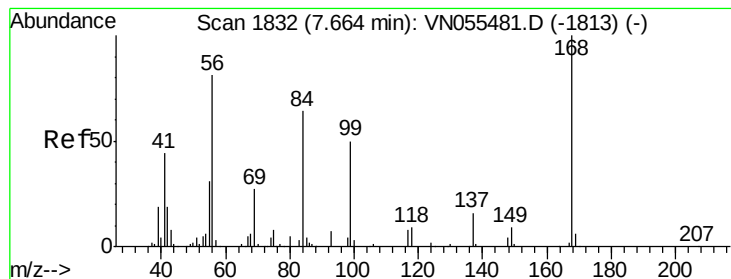
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. 0.00 min

Lab File: VN055501.D

Acq: 9 May 2019 16:54

Instrument :

MSVOA\_N

ClientSampleId :

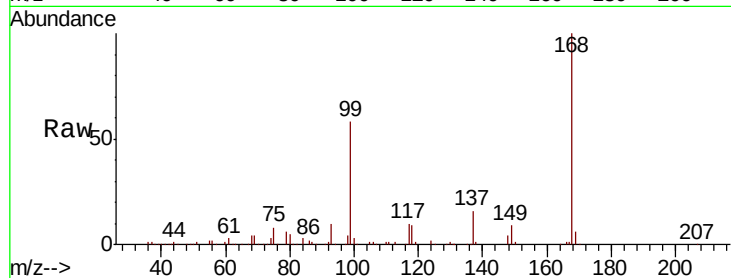
COMP-2

Tot Ion:168 Resp: 861646

Ion Ratio Lower Upper

168 100

99 58.0 47.0 70.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.67

400000

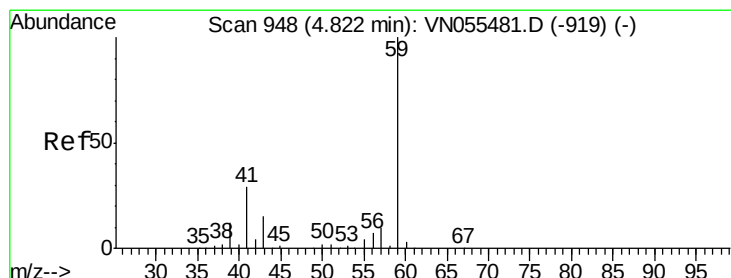
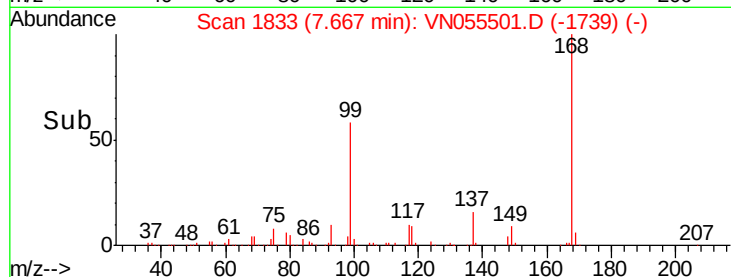
300000

200000

100000

0

Time-->



#11

Tert butyl alcohol

Concen: 178.036 ug/l

RT: 4.81 min Scan# 944

Delta R.T. -0.01 min

Lab File: VN055501.D

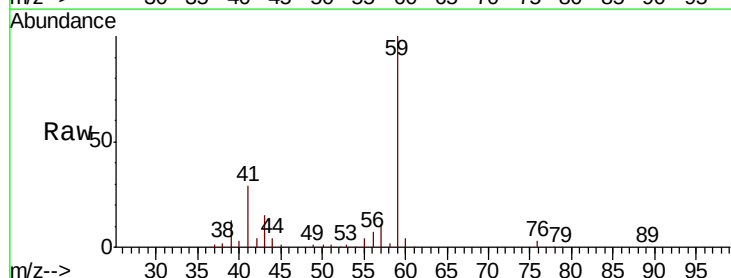
Acq: 9 May 2019 16:54

Tgt Ion: 59 Resp: 341037

Ion Ratio Lower Upper

59 100

57 10.5 8.0 12.0



Abundance Ion 59.00 (58.70 to 59.70): VN

Ion 57.00 (56.70 to 57.70): VN

4.81

100000

80000

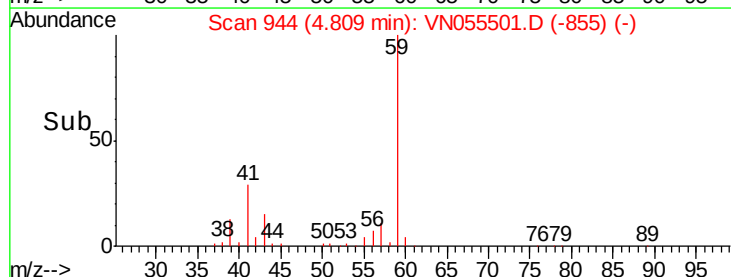
60000

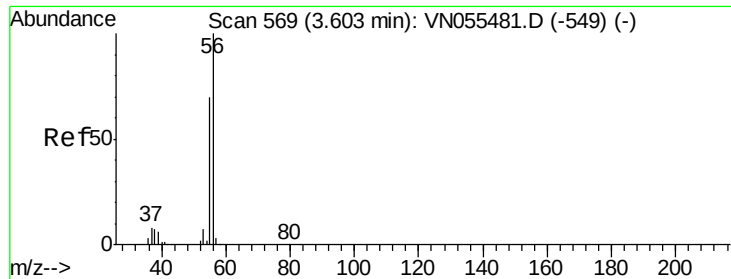
40000

20000

0

Time-->





#13

Acrolein

Concen: 1.524 ug/l

RT: 3.61 min Scan# 570

Delta R.T. 0.00 min

Lab File: VN055501.D

Acq: 9 May 2019 16:54

Instrument :

MSVOA\_N

ClientSampled :

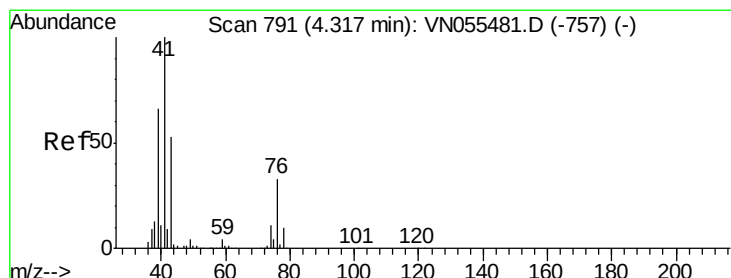
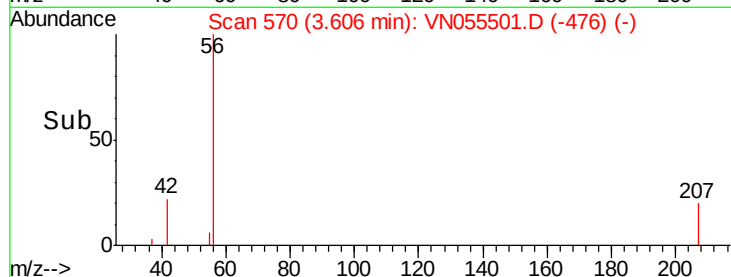
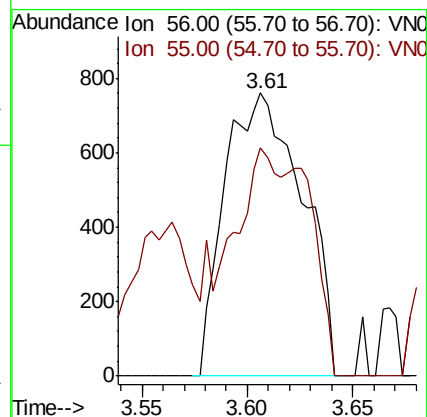
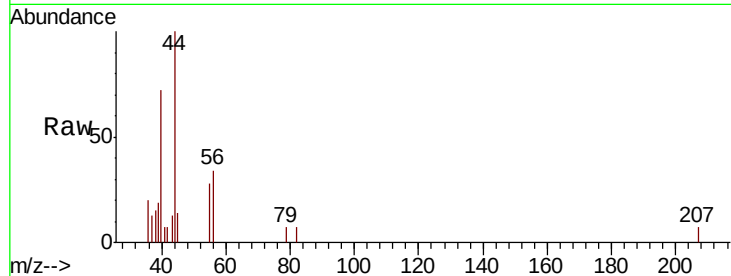
COMP-2

Tot Ion: 56 Resp: 1946

Ion Ratio Lower Upper

56 100

55 24.2 57.7 86.5#



#14

Allyl chloride

Concen: 0.258 ug/l

RT: 4.27 min Scan# 777

Delta R.T. -0.04 min

Lab File: VN055501.D

Acq: 9 May 2019 16:54

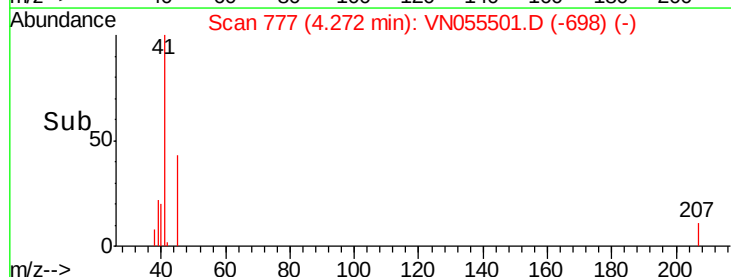
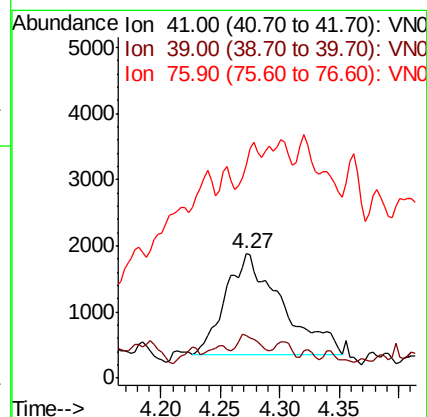
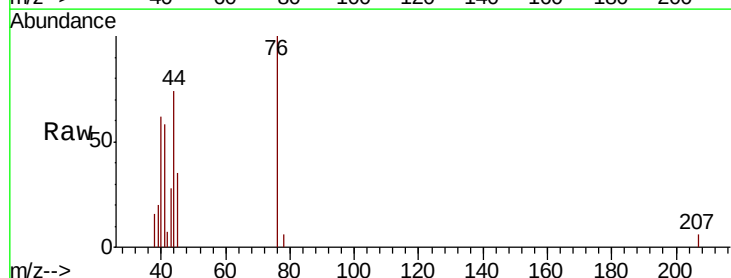
Tgt Ion: 41 Resp: 4985

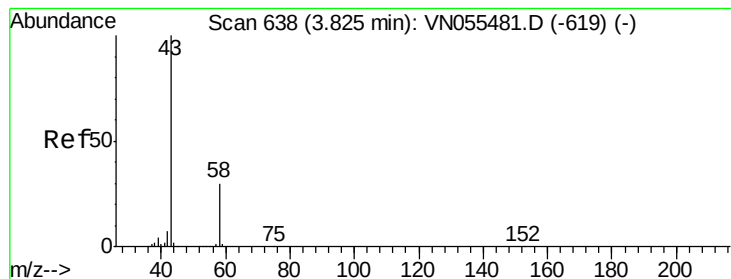
Ion Ratio Lower Upper

41 100

39 0.0 49.8 74.8#

76 0.0 23.5 35.3#





#16

Acetone

Concen: 186.617 ug/l

RT: 3.82 min Scan# 638

Delta R.T. 0.00 min

Lab File: VN055501.D

Acq: 9 May 2019 16:54

Instrument :

MSVOA\_N

ClientSampleId :

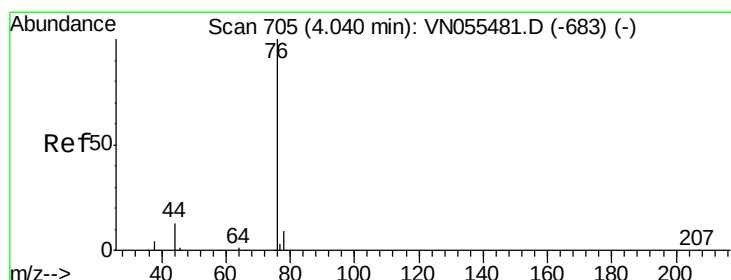
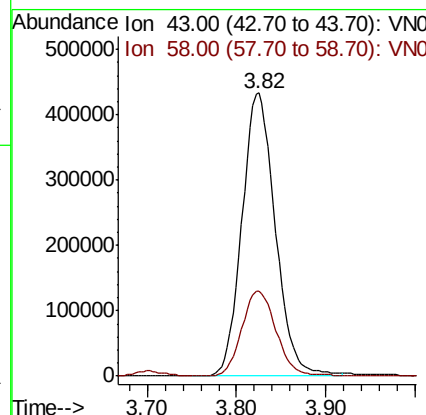
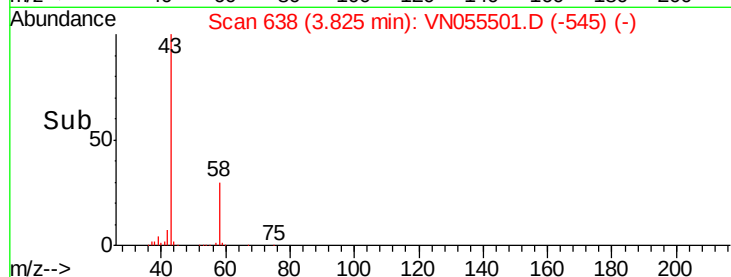
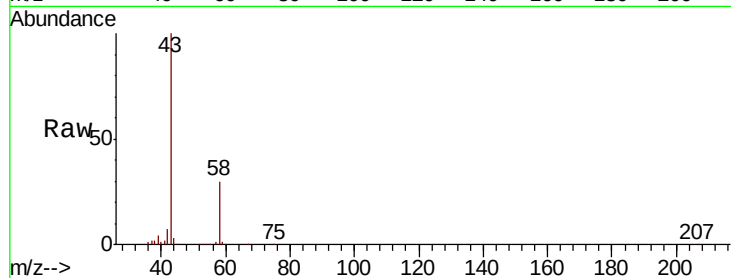
COMP-2

Tot Ion: 43 Resp: 1121033

Ion Ratio Lower Upper

43 100

58 29.9 24.2 36.2



#17

Carbon Disulfide

Concen: 2.155 ug/l

RT: 4.05 min Scan# 708

Delta R.T. 0.01 min

Lab File: VN055501.D

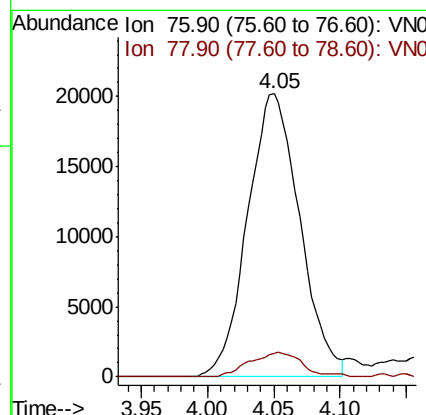
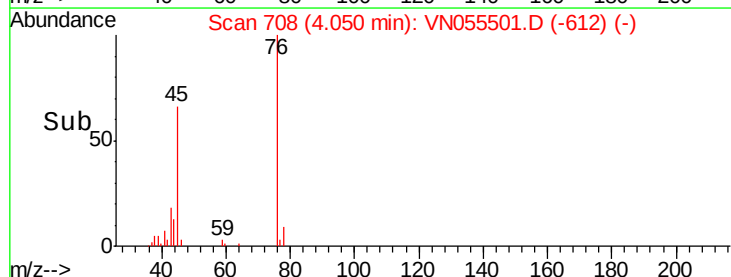
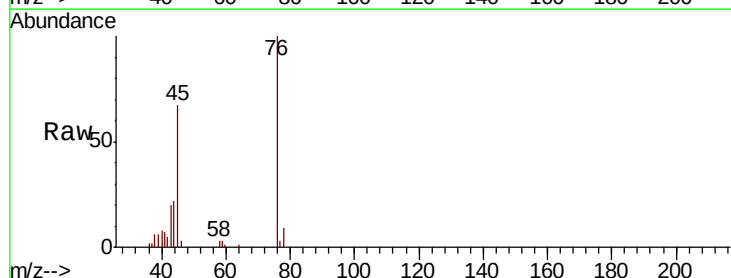
Acq: 9 May 2019 16:54

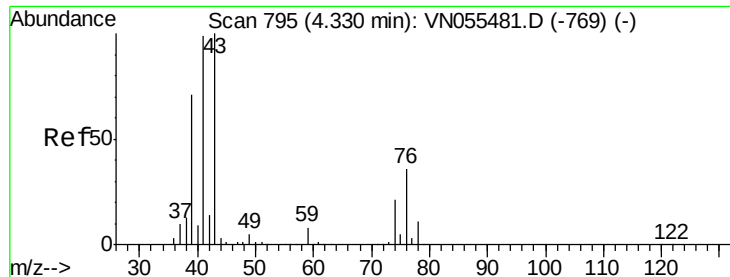
Tgt Ion: 76 Resp: 55395

Ion Ratio Lower Upper

76 100

78 8.5 7.4 11.0

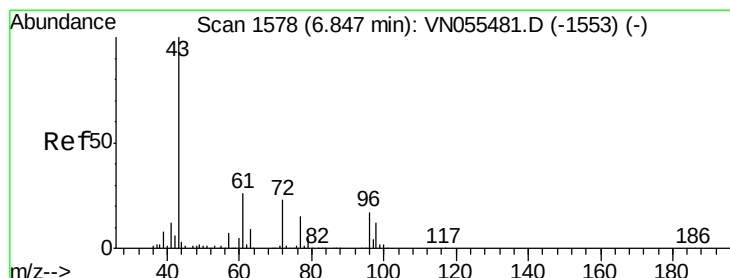
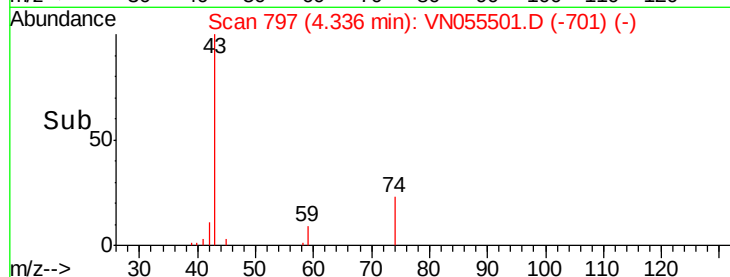
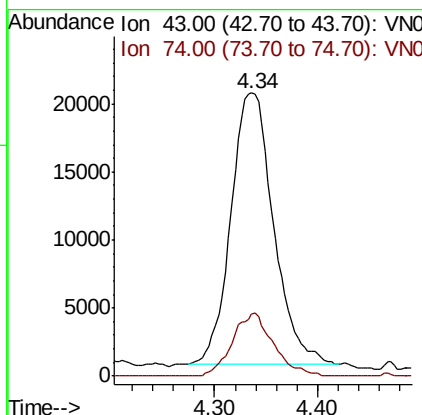
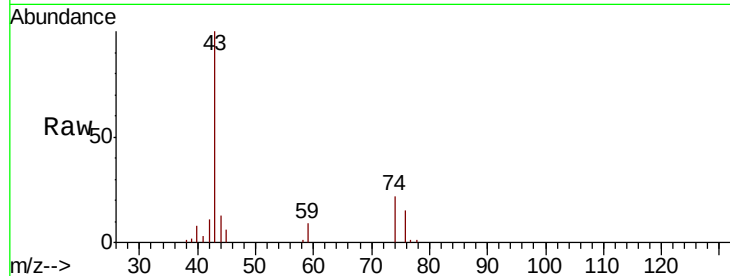




#18  
Methvl Acetate  
Concen: 3.547 ug/l  
RT: 4.34 min Scan# 797  
Delta R.T. 0.01 min  
Lab File: VN055501.D  
Acq: 9 May 2019 16:54

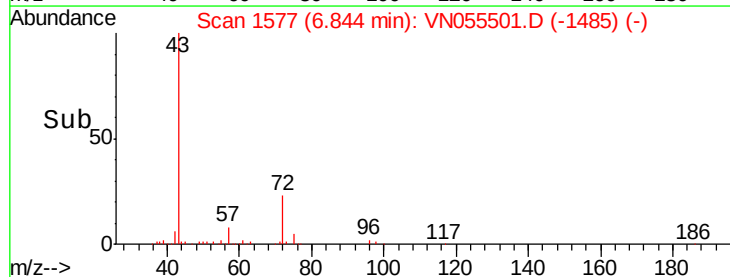
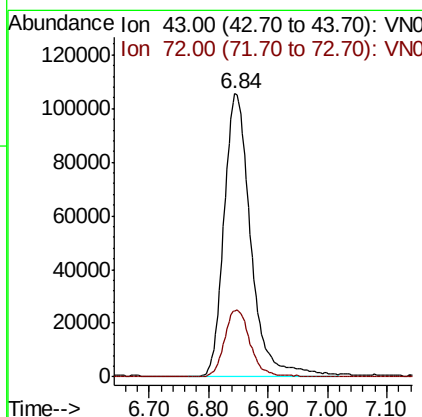
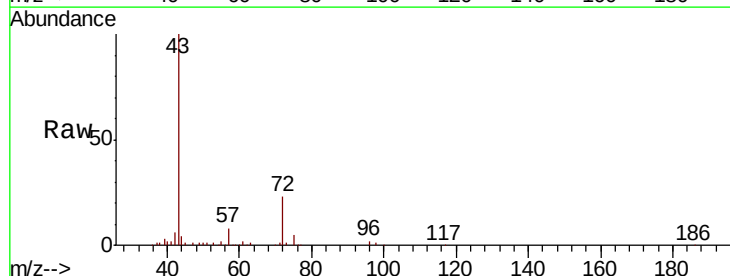
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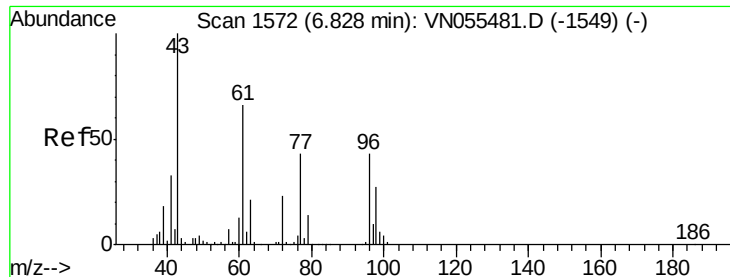
Tot Ion: 43 Resp: 57663  
Ion Ratio Lower Upper  
43 100  
74 22.2 16.3 24.5



#25  
2-Butanone  
Concen: 39.572 ug/l  
RT: 6.84 min Scan# 1577  
Delta R.T. -0.00 min  
Lab File: VN055501.D  
Acq: 9 May 2019 16:54

Tgt Ion: 43 Resp: 328369  
Ion Ratio Lower Upper  
43 100  
72 23.4 18.6 27.8





#27

cis-1,2-Dichloroethene

Concen: 0.470 ug/l

RT: 6.83 min Scan# 1574

Delta R.T. 0.01 min

Lab File: VN055501.D

Acq: 9 May 2019 16:54

Instrument :

MSVOA\_N

ClientSampleId :

COMP-2

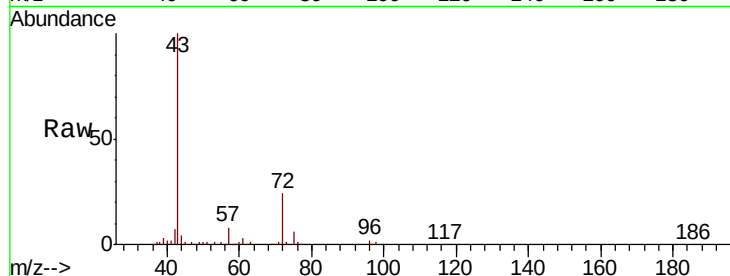
Tot Ion: 96 Resp: 5542

Ion Ratio Lower Upper

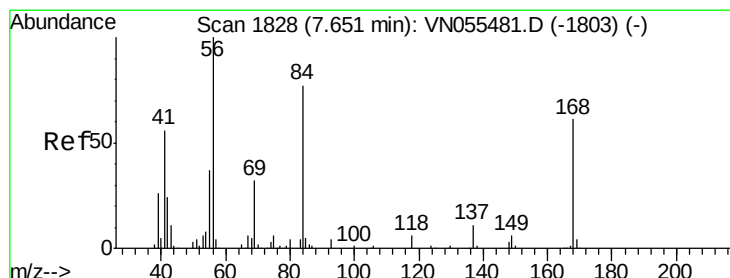
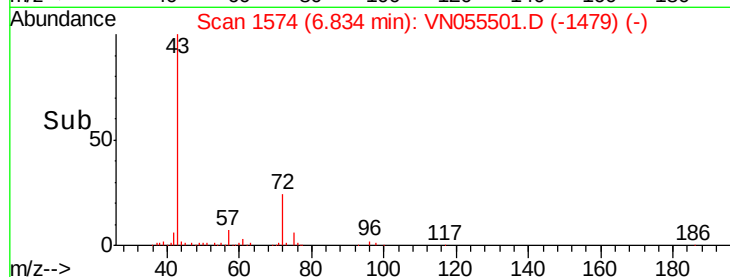
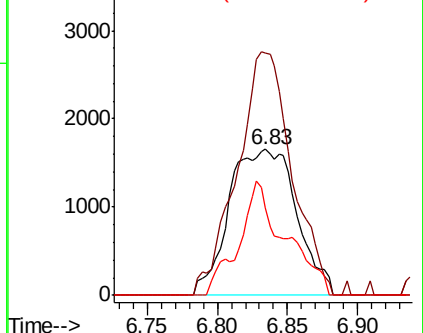
96 100

61 135.1 0.0 310.8

98 53.7 0.0 129.4



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



#31

Cyclohexane

Concen: 0.924 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. 0.02 min

Lab File: VN055501.D

Acq: 9 May 2019 16:54

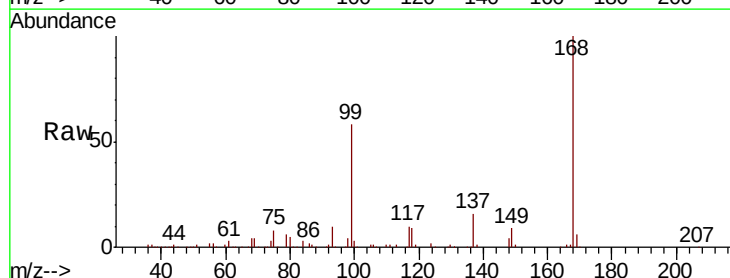
Tgt Ion: 56 Resp: 19347

Ion Ratio Lower Upper

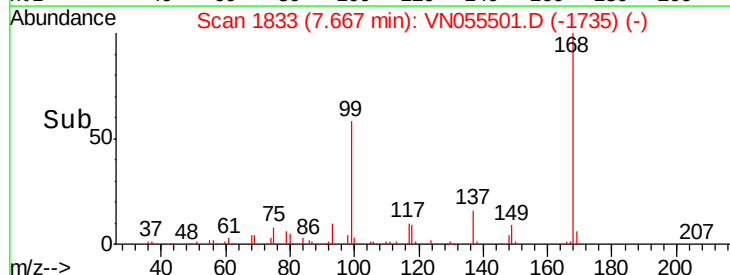
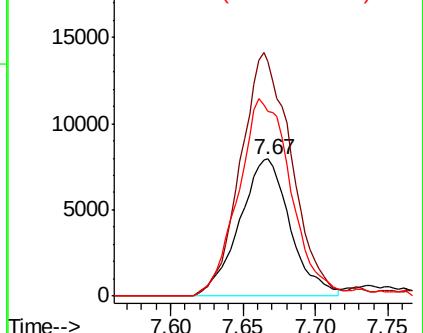
56 100

69 171.1 26.0 39.0#

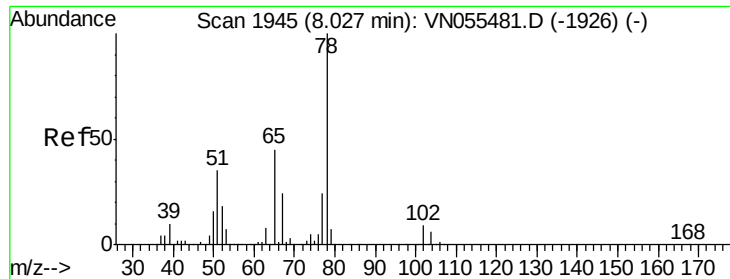
84 135.2 61.9 92.9#



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



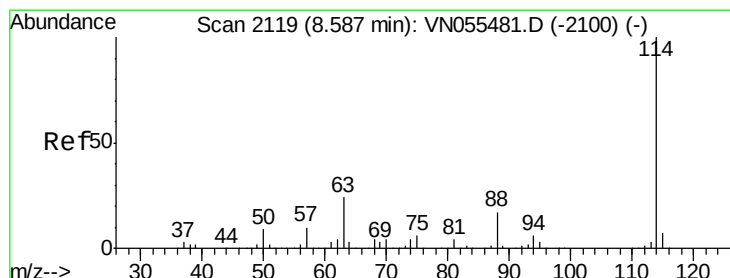
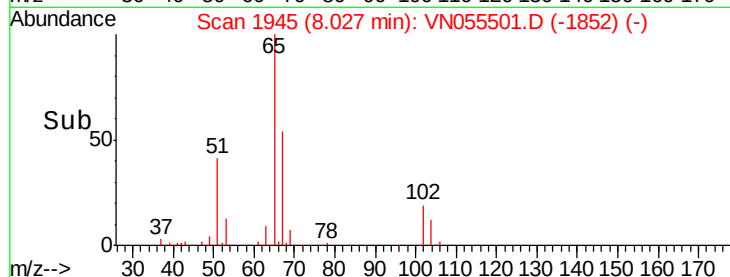
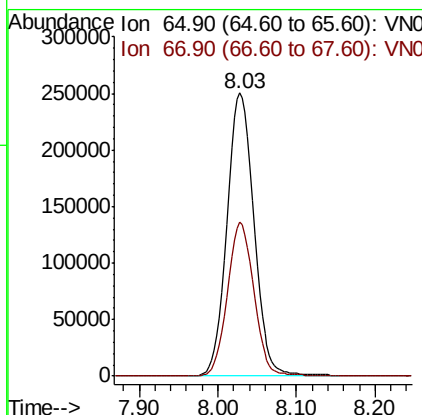
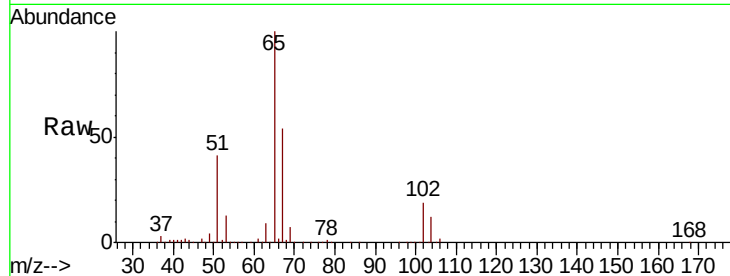




#33  
 1,2-Dichloroethane-d4  
 Concen: 45.932 ug/l  
 RT: 8.03 min Scan# 1945  
 Delta R.T. 0.00 min  
 Lab File: VN055501.D  
 Acq: 9 May 2019 16:54

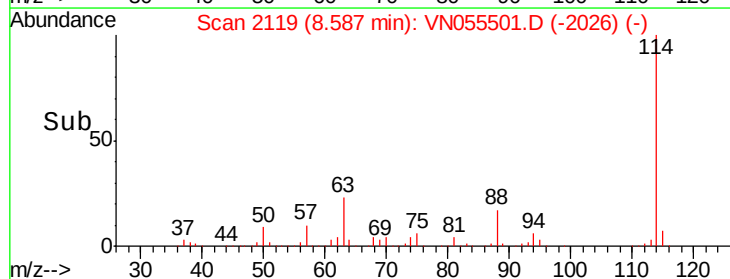
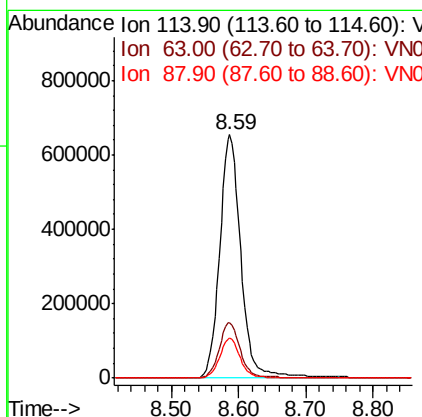
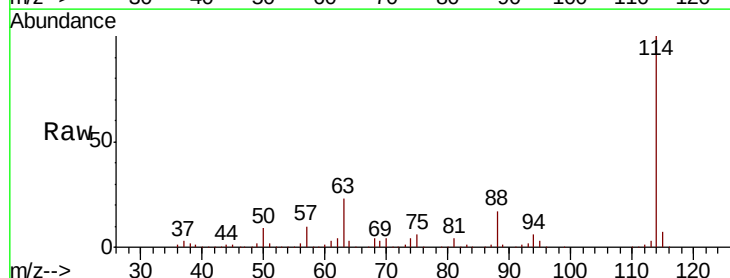
Instrument :  
 MSVOA\_N  
 ClientSampled :  
 COMP-2

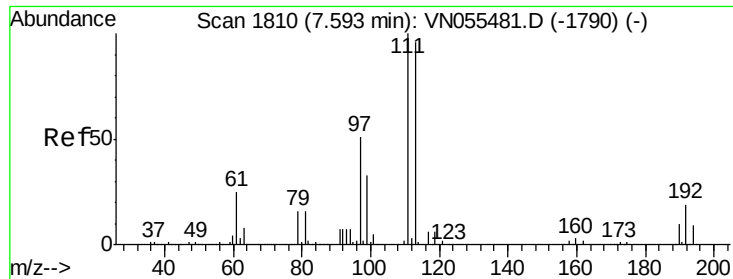
Tot Ion: 65 Resp: 595894  
 Ion Ratio Lower Upper  
 65 100  
 67 53.1 0.0 109.6



#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.59 min Scan# 2119  
 Delta R.T. 0.00 min  
 Lab File: VN055501.D  
 Acq: 9 May 2019 16:54

Tgt Ion: 114 Resp: 1443630  
 Ion Ratio Lower Upper  
 114 100  
 63 22.7 0.0 47.4  
 88 16.6 0.0 34.0

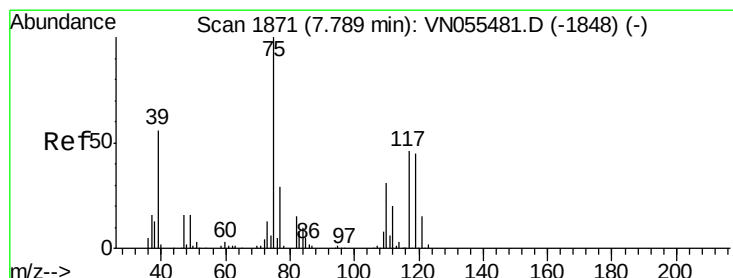
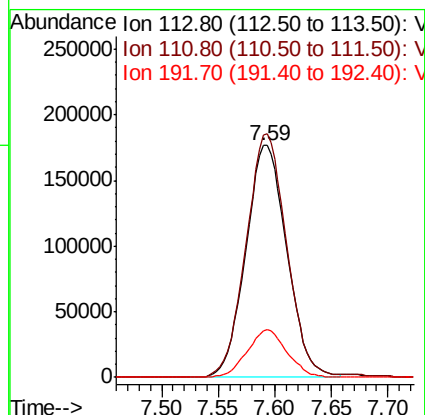
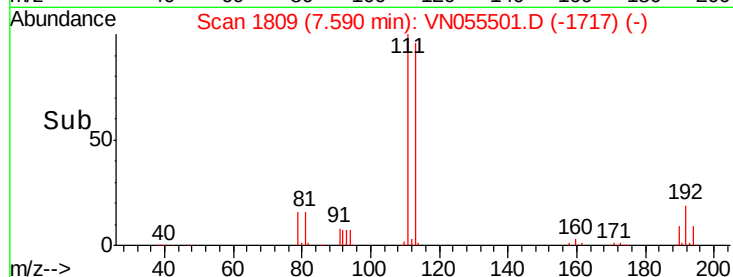
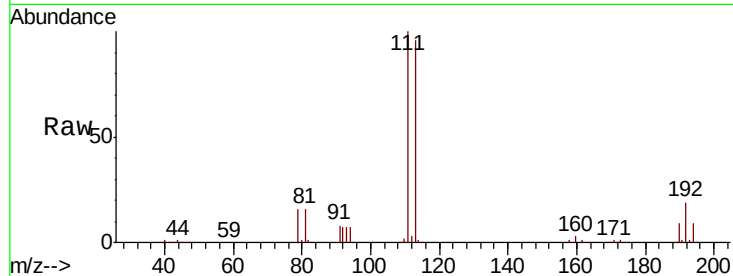




#35  
 Dibromofluoromethane  
 Concen: 48.005 ug/l  
 RT: 7.59 min Scan# 1809  
 Delta R.T. -0.00 min  
 Lab File: VN055501.D  
 Acq: 9 May 2019 16:54

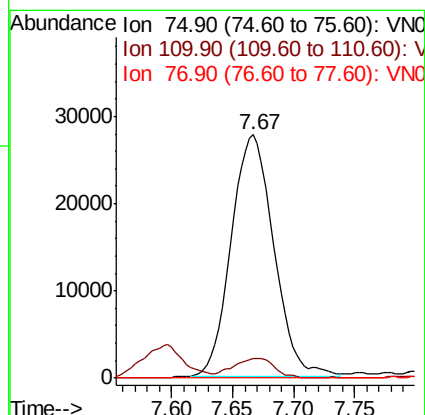
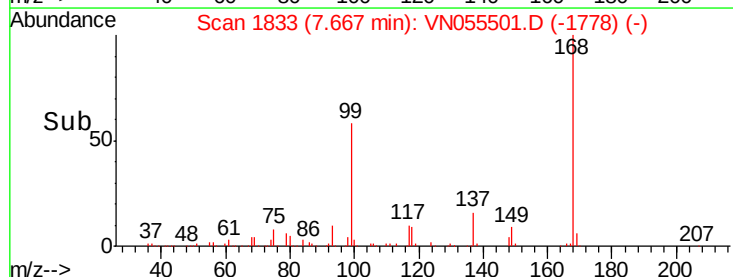
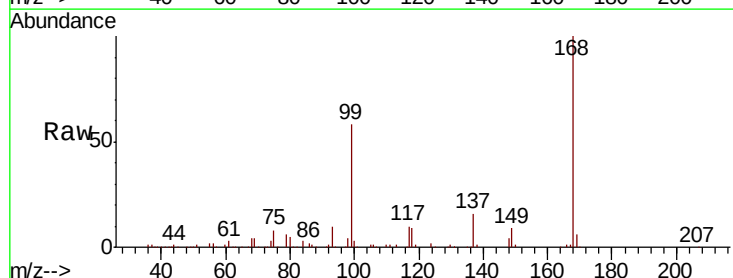
Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 COMP-2

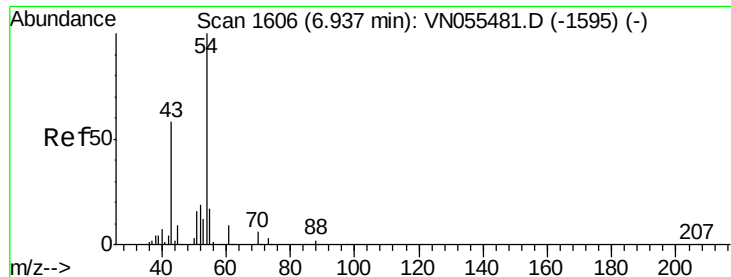
Tot Ion:113 Resp: 447045  
 Ion Ratio Lower Upper  
 113 100  
 111 104.3 82.9 124.3  
 192 19.9 15.6 23.4



#36  
 1,1-Dichloropropene  
 Concen: 4.734 ug/l  
 RT: 7.67 min Scan# 1833  
 Delta R.T. -0.12 min  
 Lab File: VN055501.D  
 Acq: 9 May 2019 16:54

Tgt Ion: 75 Resp: 67322  
 Ion Ratio Lower Upper  
 75 100  
 110 7.8 16.1 48.3#  
 77 0.0 24.6 37.0#

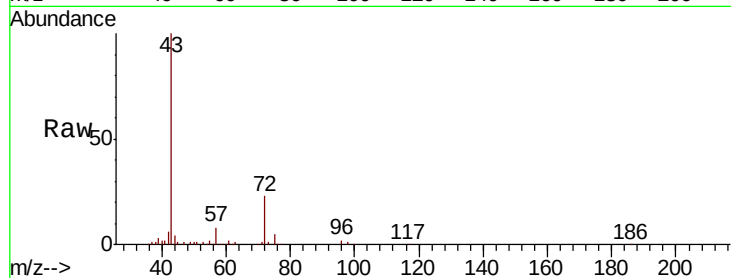




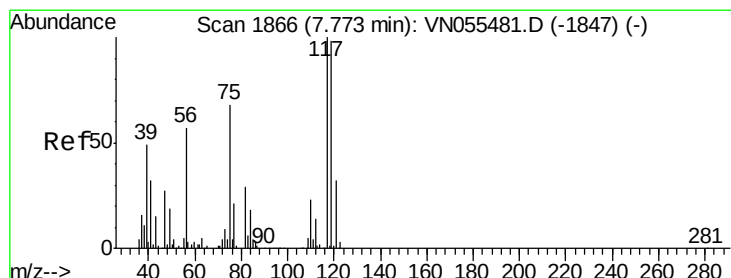
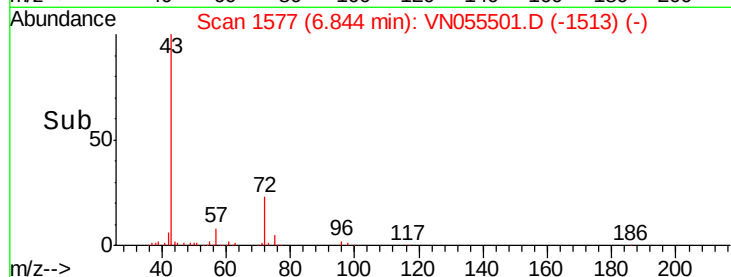
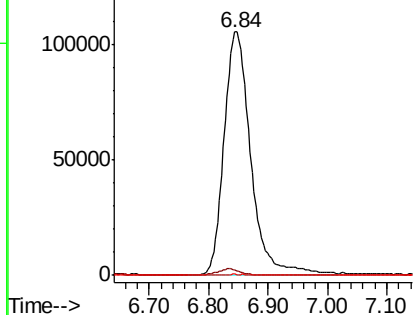
#37  
Ethyl Acetate  
Concen: 21.166 ug/l  
RT: 6.84 min Scan# 1577  
Delta R.T. -0.09 min  
Lab File: VN055501.D  
Acq: 9 May 2019 16:54

Instrument :  
MSVOA\_N  
ClientSampled :  
COMP-2

Tot Ion: 43 Resp: 328369  
Ion Ratio Lower Upper  
43 100  
61 2.3 10.9 16.3#  
70 0.2 7.0 10.6#

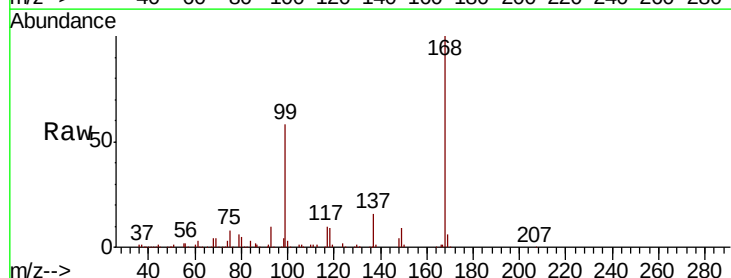


Abundance Ion 43.00 (42.70 to 43.70): VN0  
Ion 60.90 (60.60 to 61.60): VN0  
Ion 70.00 (69.70 to 70.70): VN0

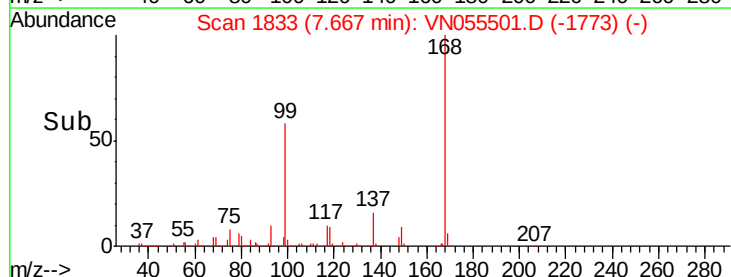
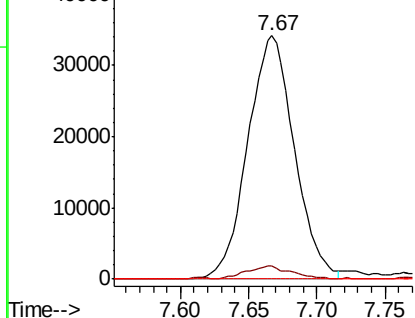


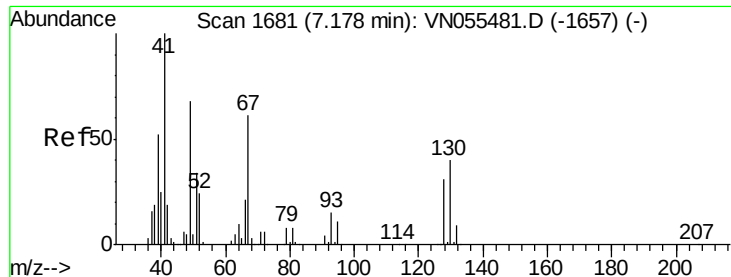
#38  
Carbon Tetrachloride  
Concen: 6.761 ug/l  
RT: 7.67 min Scan# 1833  
Delta R.T. -0.11 min  
Lab File: VN055501.D  
Acq: 9 May 2019 16:54

Tgt Ion: 117 Resp: 80962  
Ion Ratio Lower Upper  
117 100  
119 5.2 77.8 116.6#  
121 0.0 25.2 37.8#



Abundance Ion 116.80 (116.50 to 117.50): V  
Ion 118.80 (118.50 to 119.50): V  
Ion 120.80 (120.50 to 121.50): V

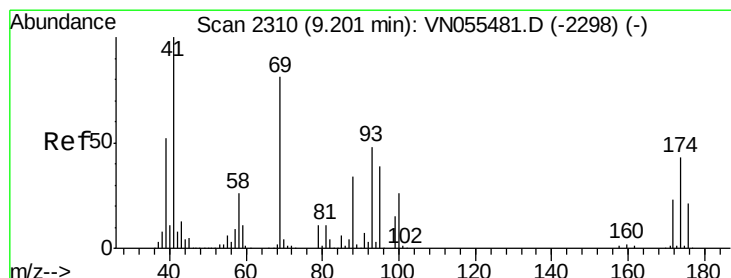
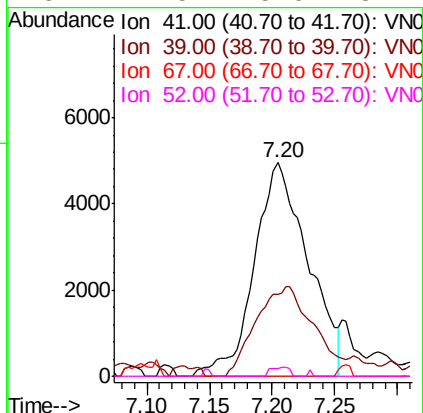
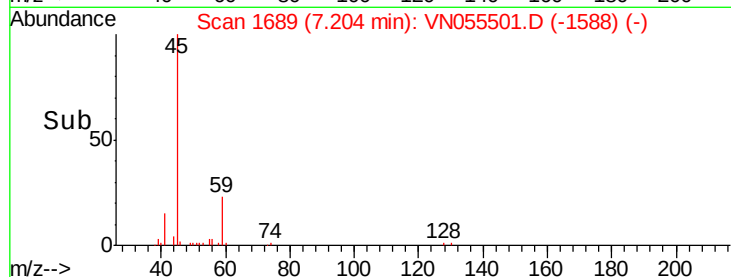
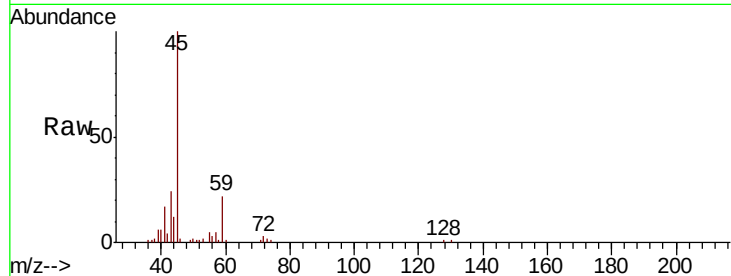




#41  
Methacrylonitrile  
Concen: 2.049 ug/l  
RT: 7.20 min Scan# 1689  
Delta R.T. 0.03 min  
Lab File: VN055501.D  
Acq: 9 May 2019 16:54

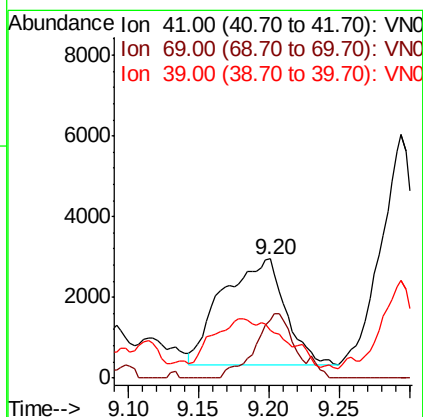
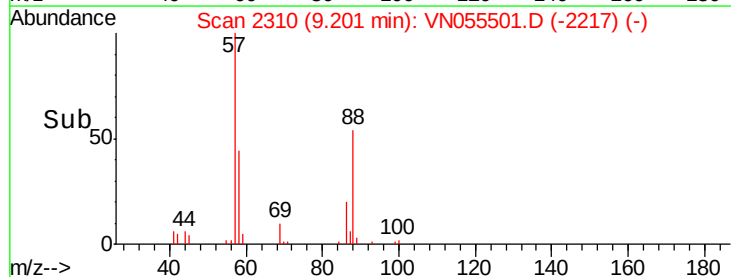
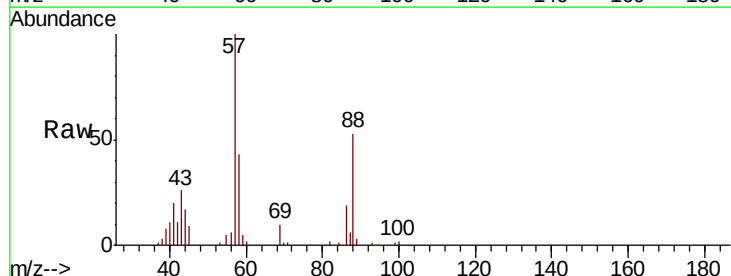
Instrument :  
MSVOA\_N  
ClientSampled :  
COMP-2

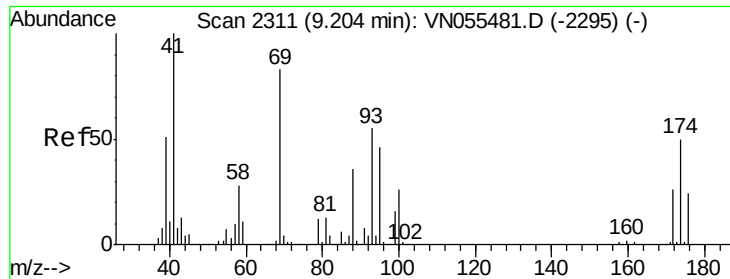
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 41      | 100   |       |       |
| 39      | 45.3  | 44.7  | 67.1  |
| 67      | 0.0   | 61.4  | 92.0# |
| 52      | 1.5   | 25.0  | 37.4# |



#48  
Methyl methacrylate  
Concen: 0.723 ug/l  
RT: 9.20 min Scan# 2310  
Delta R.T. 0.00 min  
Lab File: VN055501.D  
Acq: 9 May 2019 16:54

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 41      | 100   |       |       |
| 69      | 39.2  | 64.2  | 96.2# |
| 39      | 0.0   | 41.6  | 62.4# |

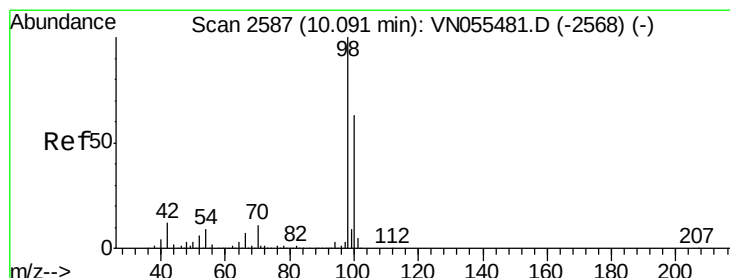
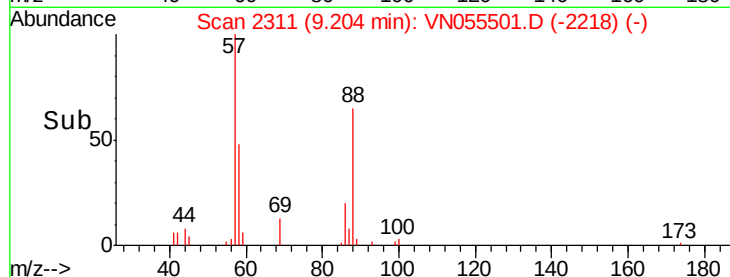
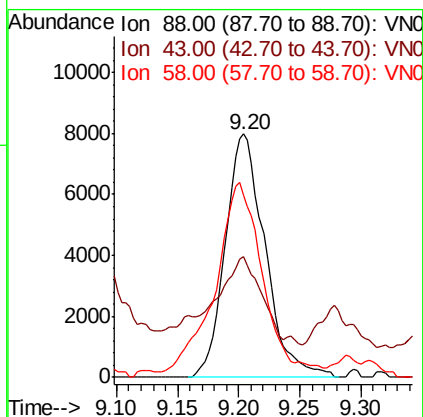
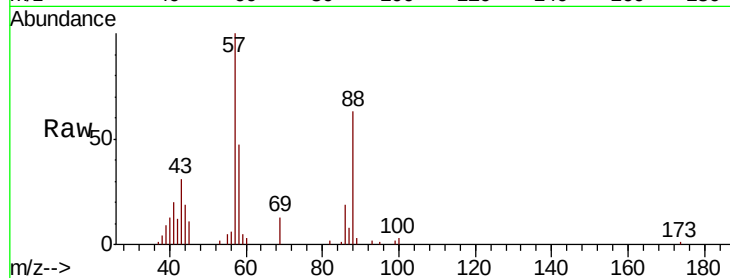




#49  
 1,4-Dioxane  
 Concen: 81.922 ug/l  
 RT: 9.20 min Scan# 2311  
 Delta R.T. 0.00 min  
 Lab File: VN055501.D  
 Acq: 9 May 2019 16:54

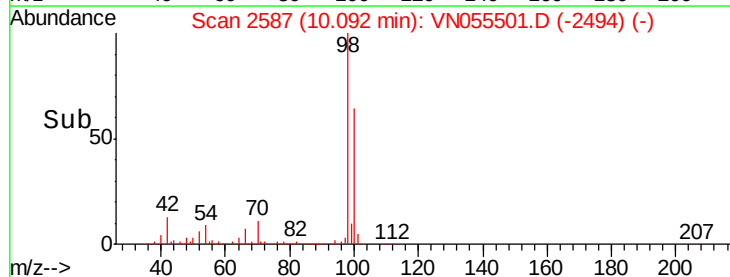
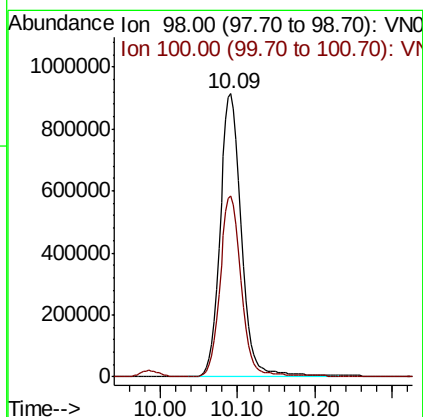
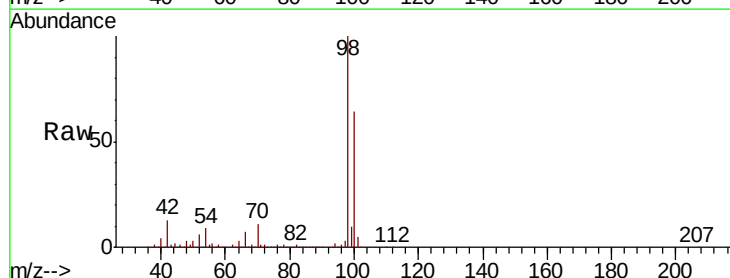
Instrument :  
 MSVOA\_N  
 ClientSampled :  
 COMP-2

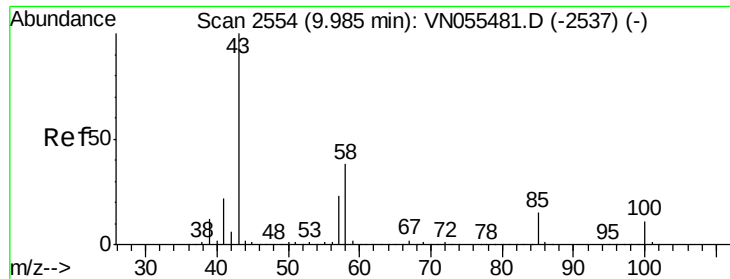
Tot Ion: 88 Resp: 18132  
 Ion Ratio Lower Upper  
 88 100  
 43 33.6 27.8 41.8  
 58 90.9 61.8 92.6



#50  
 Toluene-d8  
 Concen: 48.701 ug/l  
 RT: 10.09 min Scan# 2587  
 Delta R.T. 0.00 min  
 Lab File: VN055501.D  
 Acq: 9 May 2019 16:54

Tgt Ion: 98 Resp: 1767355  
 Ion Ratio Lower Upper  
 98 100  
 100 63.3 50.4 75.6





#51

4-Methyl-2-Pentanone

Concen: 19.982 ug/l

RT: 9.99 min Scan# 2554

Delta R.T. 0.00 min

Lab File: VN055501.D

Acq: 9 May 2019 16:54

Instrument :

MSVOA\_N

ClientSampled :

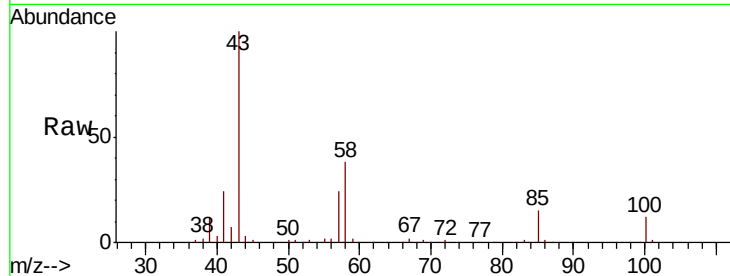
COMP-2

Tot Ion: 43 Resp: 309757

Ion Ratio Lower Upper

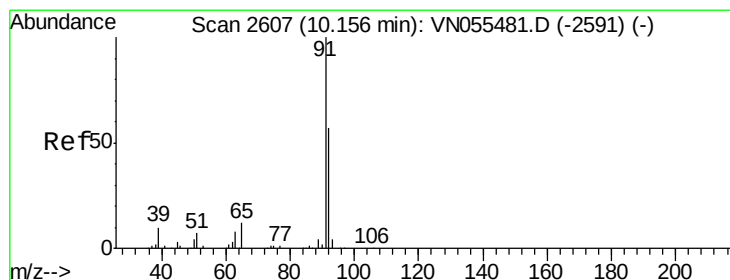
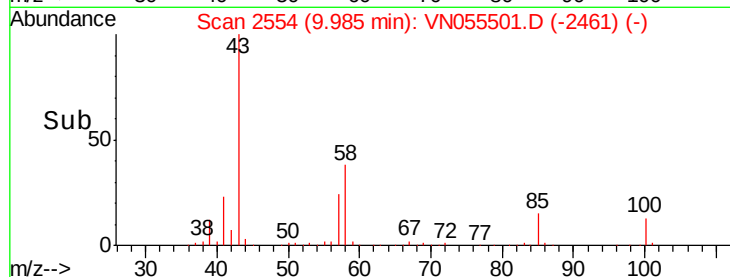
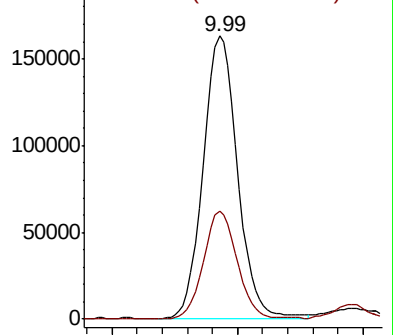
43 100

58 37.8 29.9 44.9



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#52

Toluene

Concen: 8.146 ug/l

RT: 10.16 min Scan# 2607

Delta R.T. 0.00 min

Lab File: VN055501.D

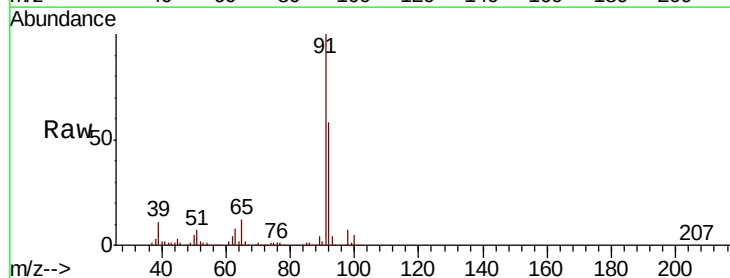
Acq: 9 May 2019 16:54

Tgt Ion: 92 Resp: 205556

Ion Ratio Lower Upper

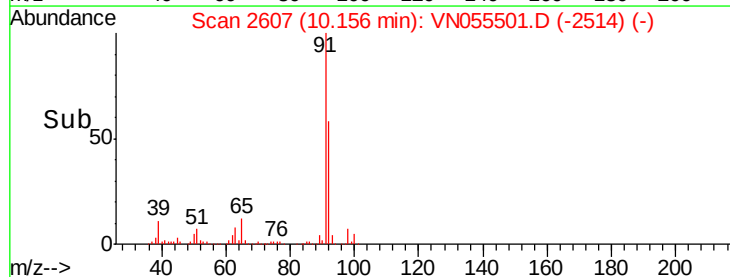
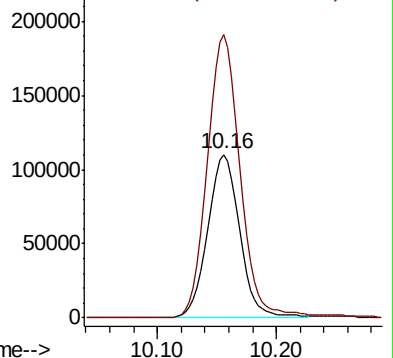
92 100

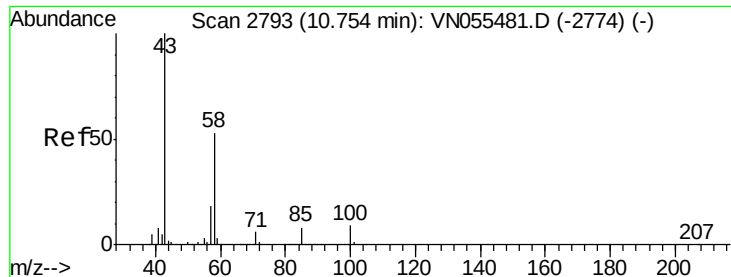
91 179.7 140.5 210.7



Abundance Ion 92.00 (91.70 to 92.70): VN0

Ion 91.00 (90.70 to 91.70): VN0

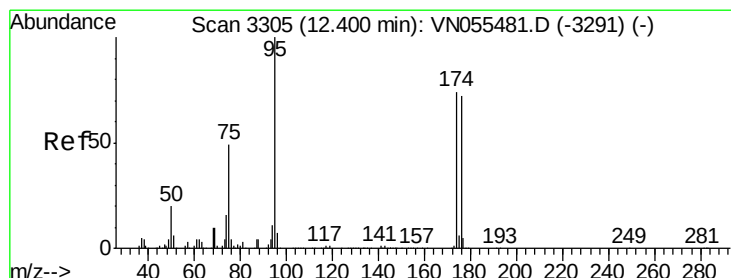
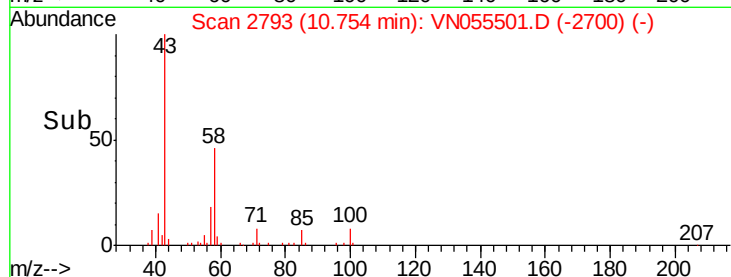
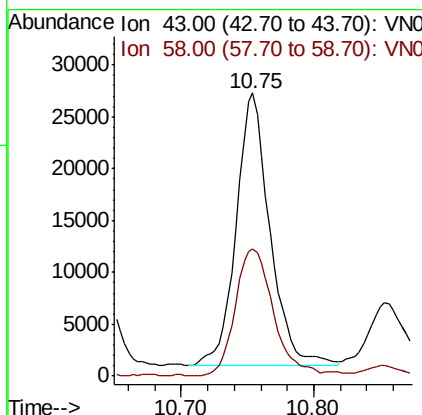
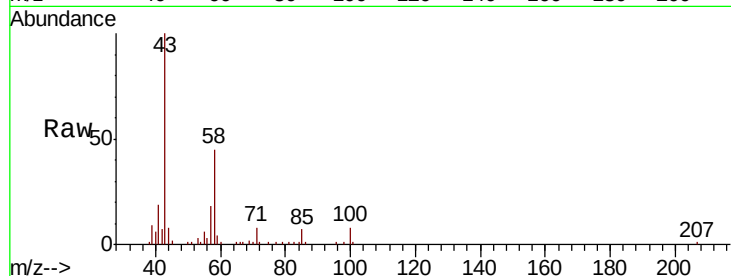




#59  
2-Hexanone  
Concen: 4.290 ug/l  
RT: 10.75 min Scan# 2793  
Delta R.T. 0.00 min  
Lab File: VN055501.D  
Acq: 9 May 2019 16:54

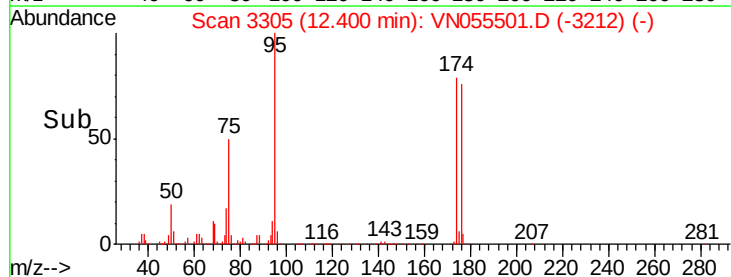
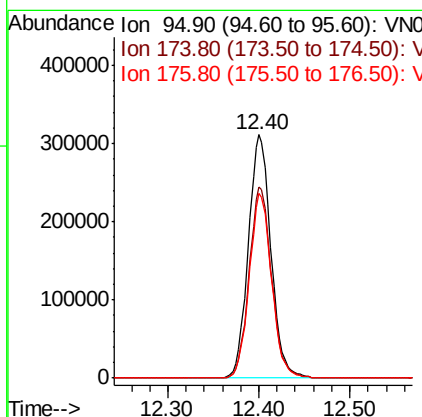
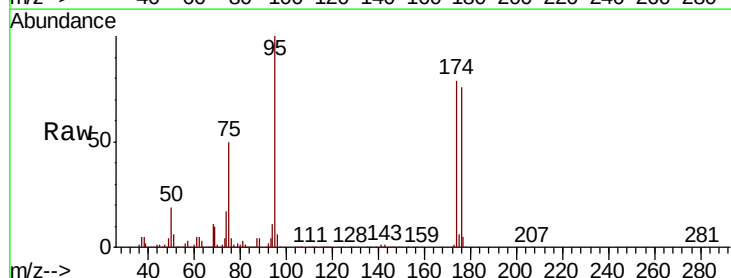
Instrument :  
MSVOA\_N  
ClientSampled :  
COMP-2

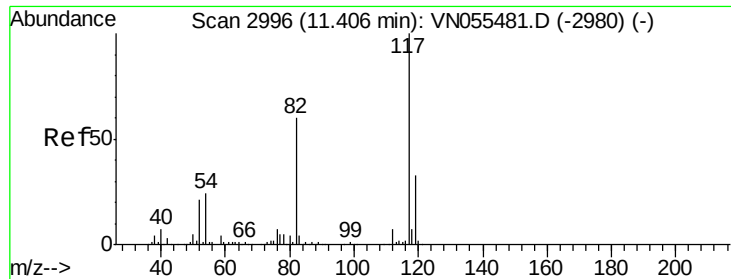
Tot Ion: 43 Resp: 46635  
Ion Ratio Lower Upper  
43 100  
58 52.6 26.4 79.0



#62  
4-Bromofluorobenzene  
Concen: 43.731 ug/l  
RT: 12.40 min Scan# 3305  
Delta R.T. 0.00 min  
Lab File: VN055501.D  
Acq: 9 May 2019 16:54

Tgt Ion: 95 Resp: 535118  
Ion Ratio Lower Upper  
95 100  
174 78.3 0.0 152.2  
176 75.1 0.0 147.8

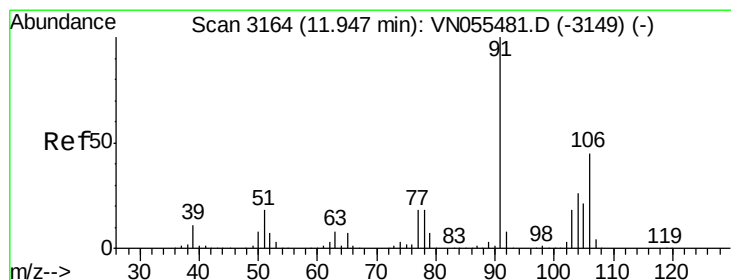
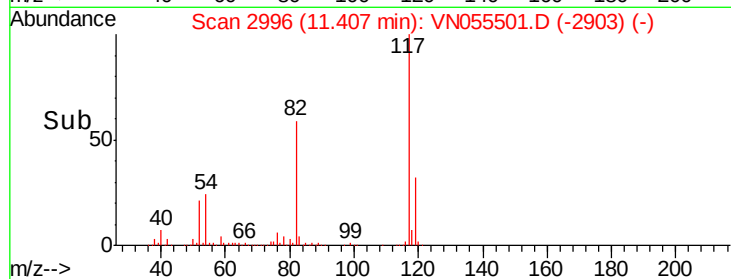
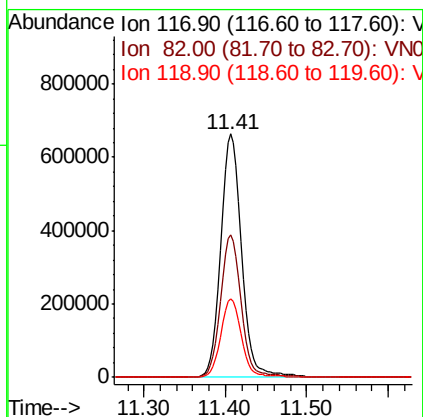
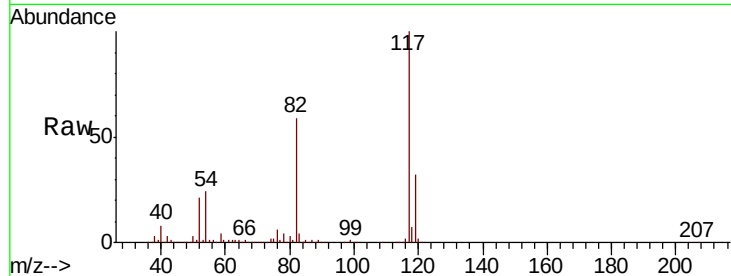




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.41 min Scan# 2996  
Delta R.T. 0.00 min  
Lab File: VN055501.D  
Acq: 9 May 2019 16:54

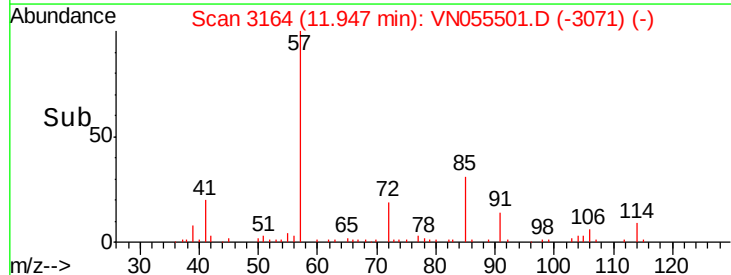
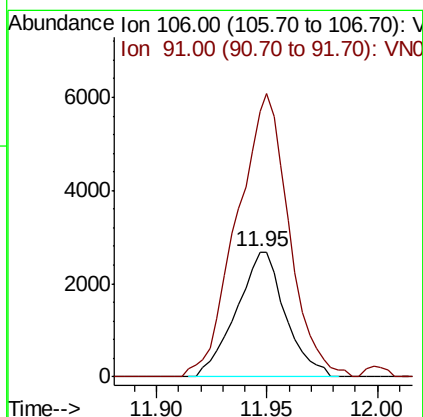
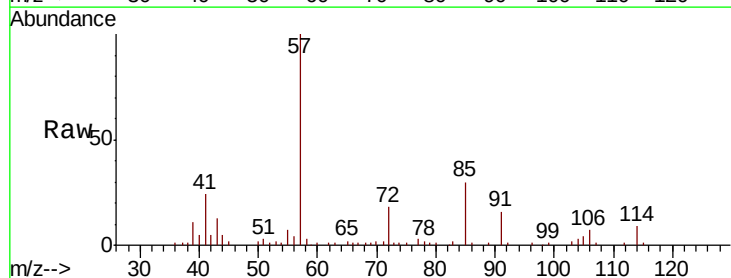
Instrument :  
MSVOA\_N  
ClientSampled :  
COMP-2

Tot Ion:117 Resp: 1208506  
Ion Ratio Lower Upper  
117 100  
82 58.7 48.0 72.0  
119 32.3 26.0 39.0

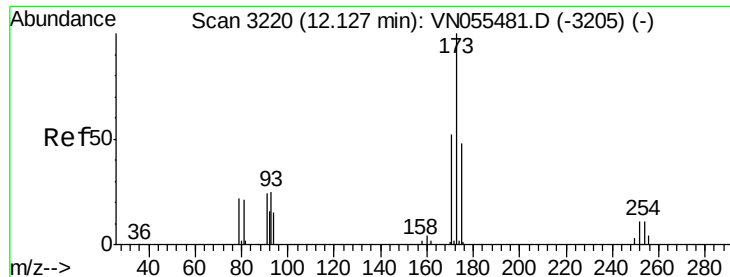


#69  
o-Xylene  
Concen: 0.251 ug/l  
RT: 11.95 min Scan# 3164  
Delta R.T. 0.00 min  
Lab File: VN055501.D  
Acq: 9 May 2019 16:54

Tgt Ion:106 Resp: 4128  
Ion Ratio Lower Upper  
106 100  
91 242.0 111.3 333.8







#71

Bromoform

Concen: 0.748 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.28 min

Lab File: VN055501.D

Acq: 9 May 2019 16:54

Instrument :

MSVOA\_N

ClientSampleId :

COMP-2

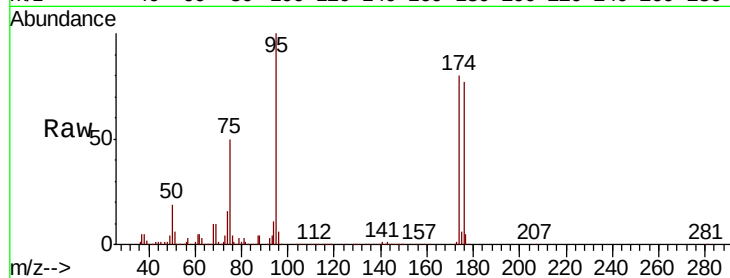
Tot Ion:173 Resp: 4320

Ion Ratio Lower Upper

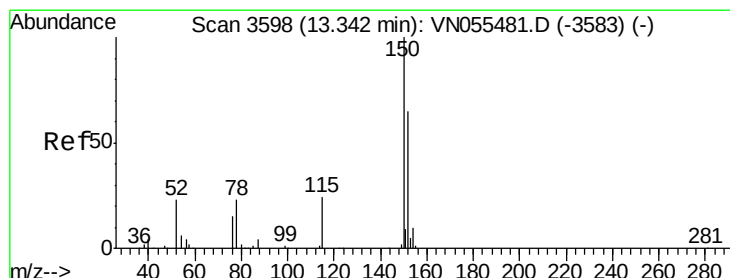
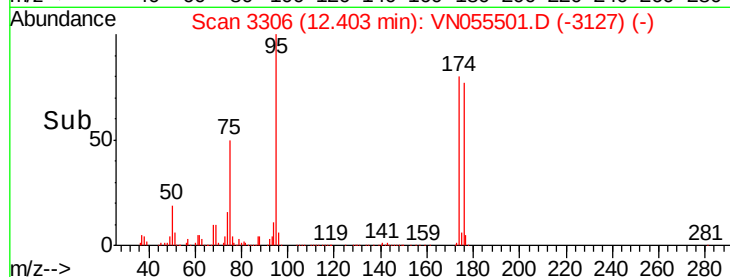
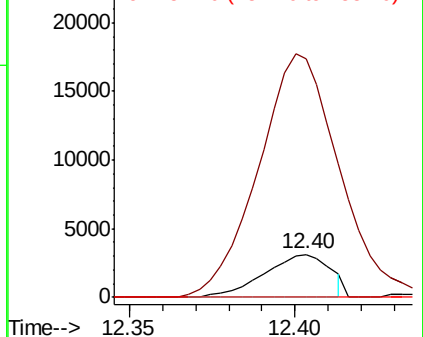
173 100

175 605.8 24.1 72.4#

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: 13.34 min Scan# 3598

Delta R.T. 0.00 min

Lab File: VN055501.D

Acq: 9 May 2019 16:54

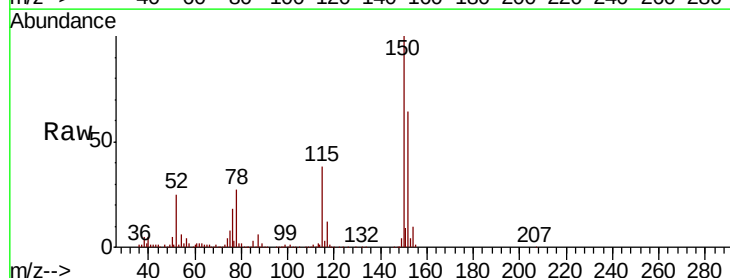
Tgt Ion:152 Resp: 393964

Ion Ratio Lower Upper

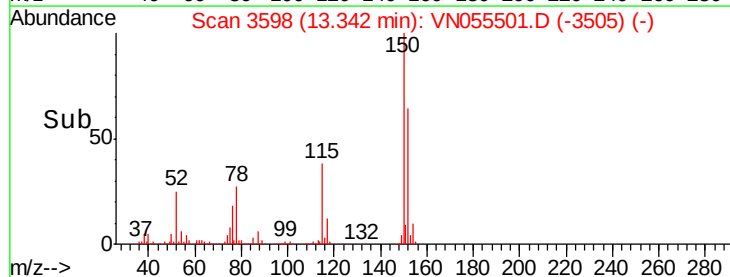
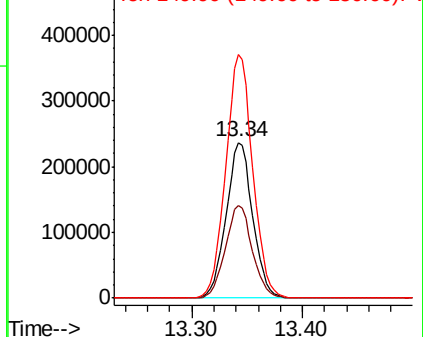
152 100

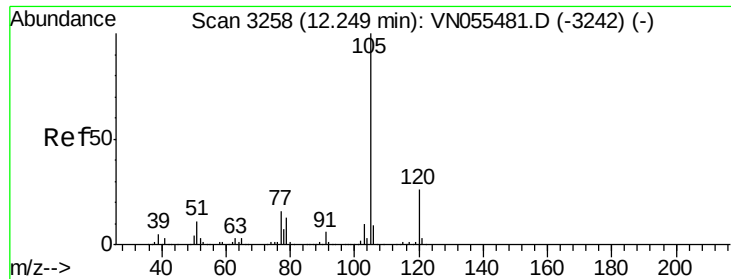
115 59.9 30.1 90.5

150 158.8 0.0 355.0



Abundance Ion 151.90 (151.60 to 152.60): V  
Ion 114.90 (114.60 to 115.60): V  
Ion 149.90 (149.60 to 150.60): V





#73

Isopropylbenzene

Concen: Below Cal

RT: 12.25 min Scan# 3257

Delta R.T. -0.00 min

Lab File: VN055501.D

Acq: 9 May 2019 16:54

Instrument :

MSVOA\_N

ClientSampleId :

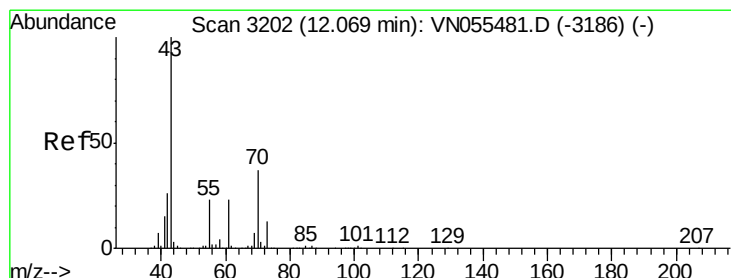
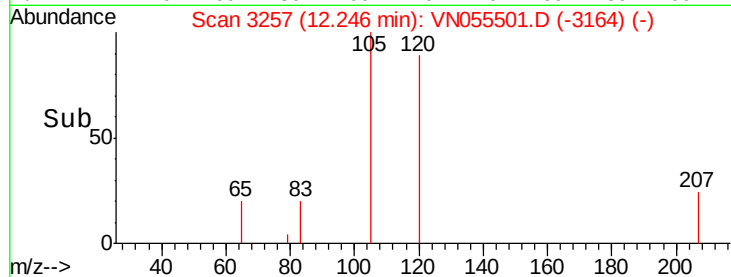
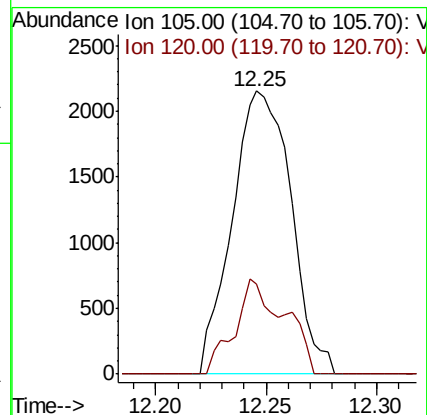
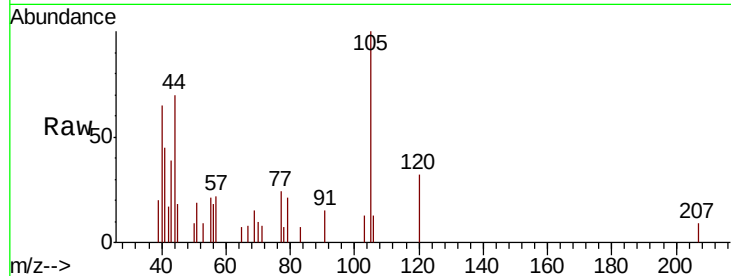
COMP-2

Tot Ion:105 Resp: 3974

Ion Ratio Lower Upper

105 100

120 28.3 13.0 39.0



#74

N-ethyl acetate

Concen: 4.970 ug/l

RT: 12.03 min Scan# 3189

Delta R.T. -0.04 min

Lab File: VN055501.D

Acq: 9 May 2019 16:54

Tgt Ion: 43 Resp: 74335

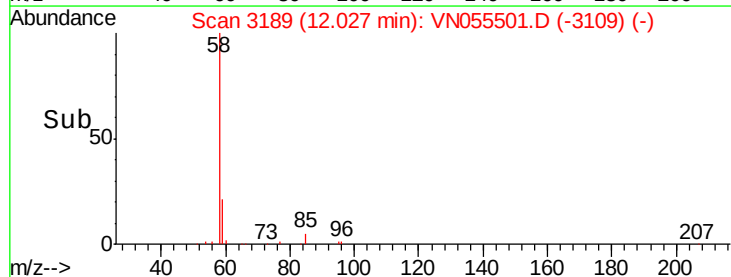
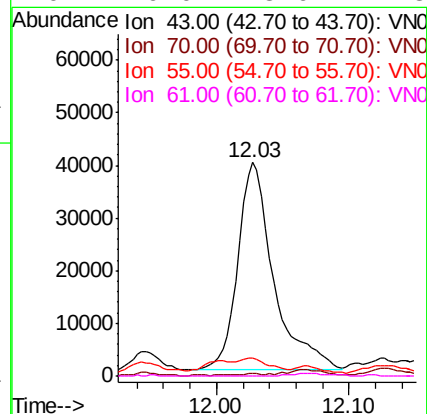
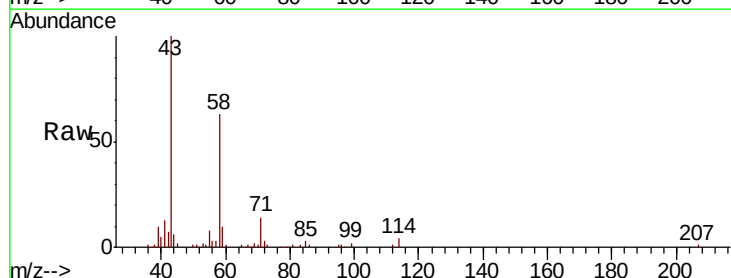
Ion Ratio Lower Upper

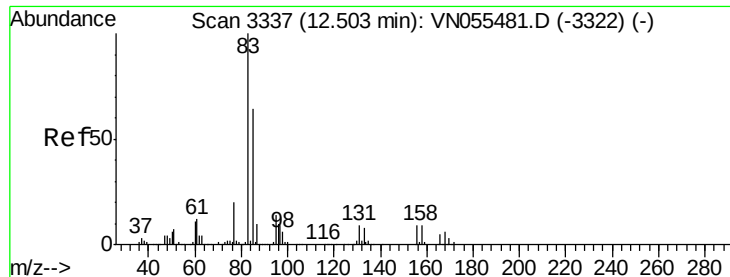
43 100

70 1.0 30.7 46.1#

55 0.0 19.3 28.9#

61 0.0 18.6 27.8#





#75

1,1,2,2-Tetrachloroethane

Concen: Below Cal

RT: 12.50 min Scan# 3336

Delta R.T. -0.00 min

Lab File: VN055501.D

Acq: 9 May 2019 16:54

Instrument :

MSVOA\_N

ClientSampled :

COMP-2

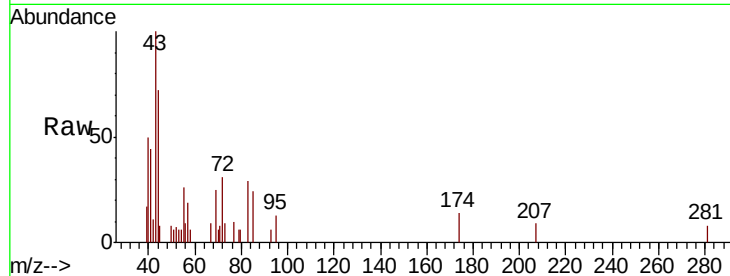
Tot Ion: 83 Resp: 1105

Ion Ratio Lower Upper

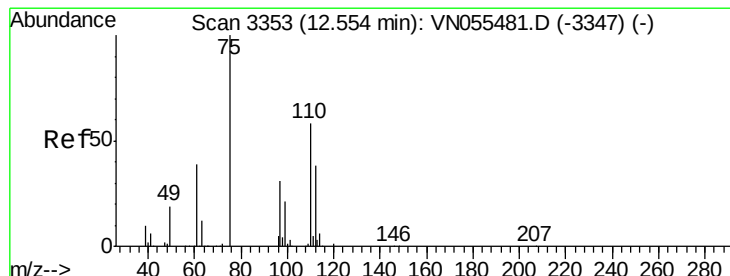
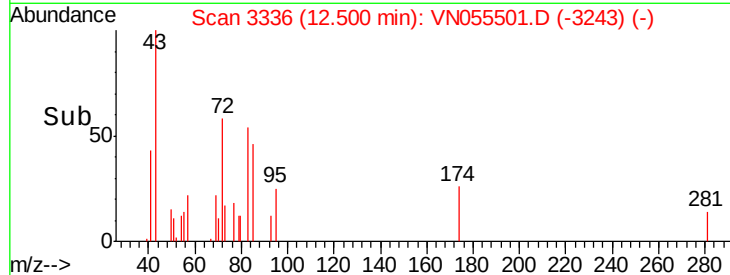
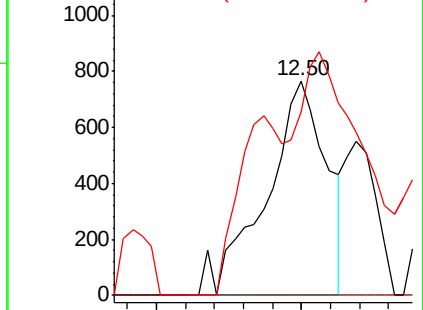
83 100

131 0.0 4.5 13.5#

85 71.6 32.0 96.0



Abundance Ion 82.90 (82.60 to 83.60): VNO  
Ion 130.80 (130.50 to 131.50): VNO  
Ion 84.90 (84.60 to 85.60): VNO



#76

1,2,3-Trichloropropane

Concen: 24.604 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN055501.D

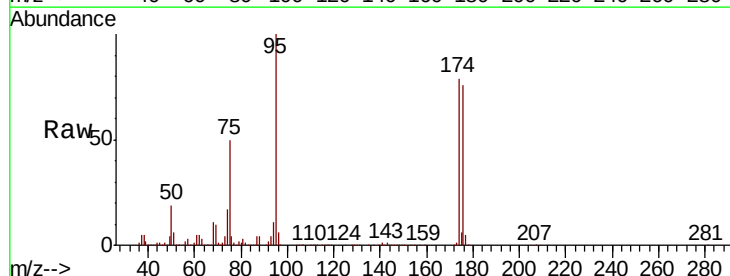
Acq: 9 May 2019 16:54

Tgt Ion: 75 Resp: 263878

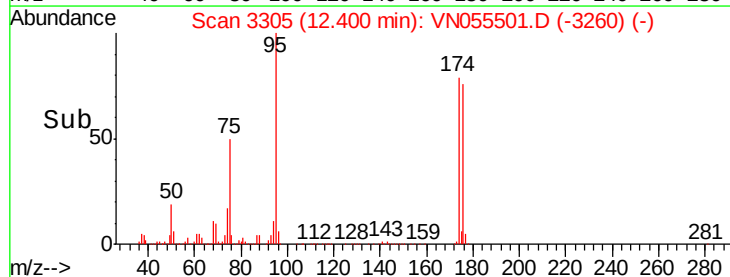
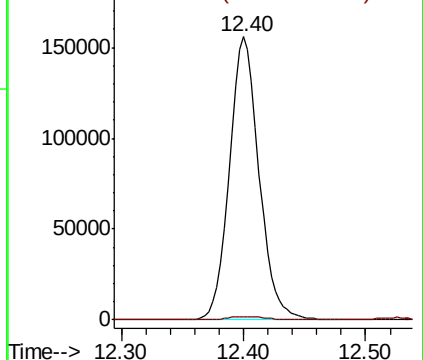
Ion Ratio Lower Upper

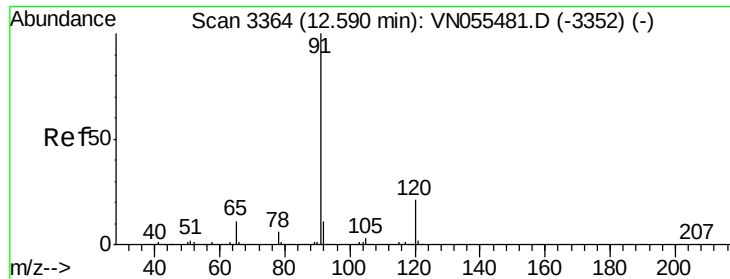
75 100

77 1.5 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VNO  
Ion 77.00 (76.70 to 77.70): VNO





#78

n-propylbenzene

Concen: 0.215 ug/l

RT: 12.59 min Scan# 3364

Delta R.T. 0.00 min

Lab File: VN055501.D

Acq: 9 May 2019 16:54

Instrument :

MSVOA\_N

ClientSampled :

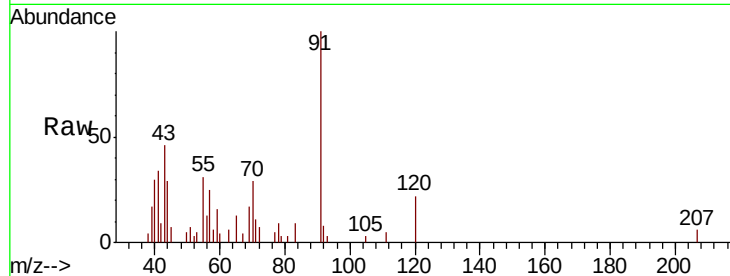
COMP-2

Tot Ion: 91 Resp: 9084

Ion Ratio Lower Upper

91 100

120 21.1 10.8 32.3



Abundance Ion 91.00 (90.70 to 91.70): VN055501.D (-3352) (-)

Ion 120.00 (119.70 to 120.70): VN055501.D (-3352) (-)

12.59

6000

5000

4000

3000

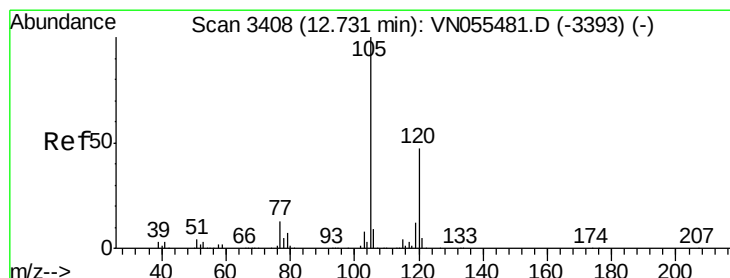
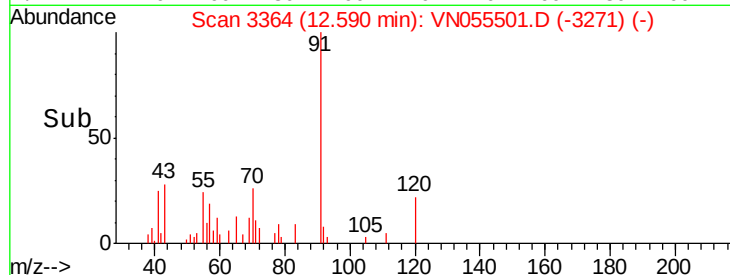
2000

1000

0

12.55 12.60 12.65

Time-->



#80

1,3,5-Trimethylbenzene

Concen: 0.221 ug/l

RT: 12.73 min Scan# 3409

Delta R.T. 0.00 min

Lab File: VN055501.D

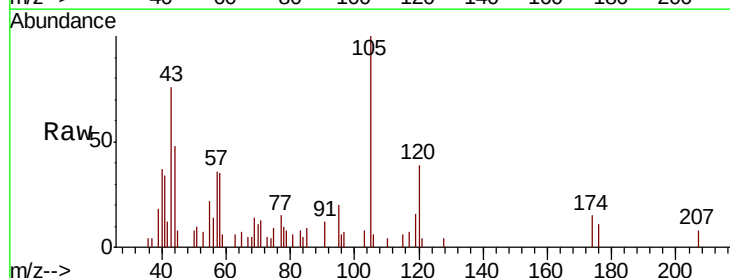
Acq: 9 May 2019 16:54

Tgt Ion: 105 Resp: 6968

Ion Ratio Lower Upper

105 100

120 44.7 23.4 70.0



Abundance Ion 105.00 (104.70 to 105.70): VN055501.D (-3393) (-)

Ion 120.00 (119.70 to 120.70): VN055501.D (-3393) (-)

12.73

5000

4000

3000

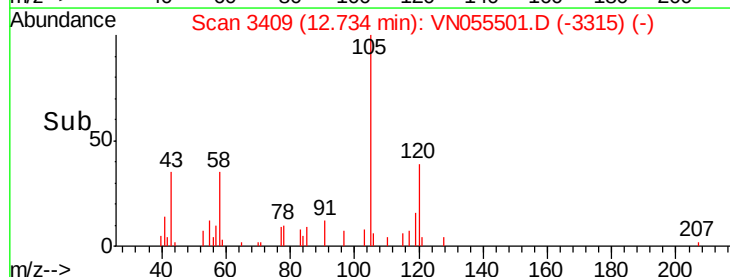
2000

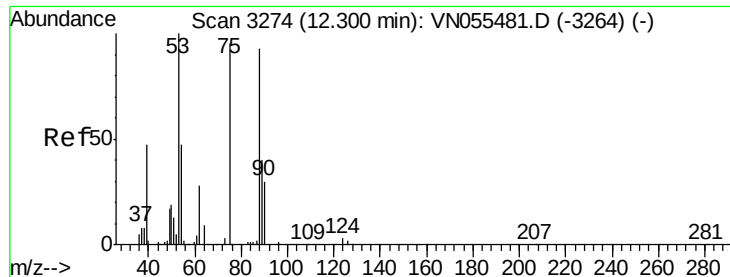
1000

0

12.70 12.75

Time-->





#81

trans-1,4-Dichloro-2-butene

Concen: 90.785 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN055501.D

Acq: 9 May 2019 16:54

Instrument :

MSVOA\_N

ClientSampled :

COMP-2

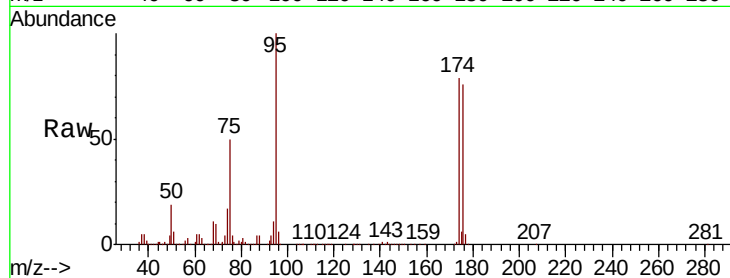
Tot Ion: 75 Resp: 263878

Ion Ratio Lower Upper

75 100

53 0.0 86.5 129.7#

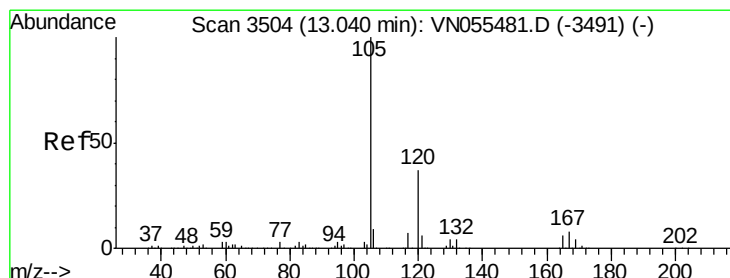
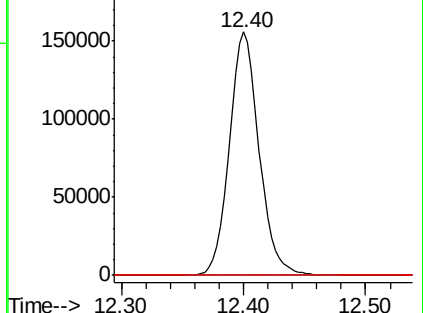
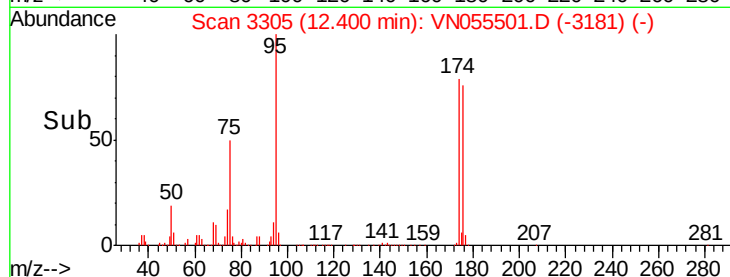
89 0.0 35.7 53.5#



Abundance Ion 74.90 (74.60 to 75.60): VN055501.D (-3181) (-)

Ion 53.00 (52.70 to 53.70): VN055501.D (-3181) (-)

Ion 88.90 (88.60 to 89.60): VN055501.D (-3181) (-)



#84

1,2,4-Trimethylbenzene

Concen: 0.643 ug/l

RT: 13.04 min Scan# 3503

Delta R.T. -0.00 min

Lab File: VN055501.D

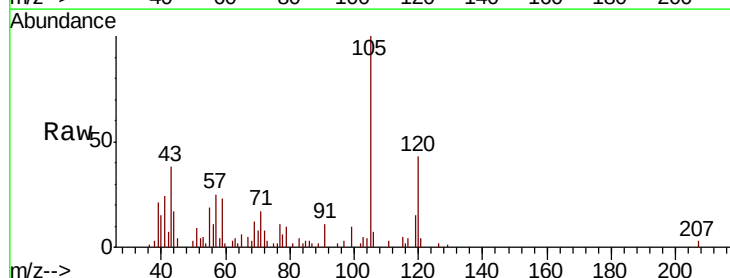
Acq: 9 May 2019 16:54

Tgt Ion: 105 Resp: 18588

Ion Ratio Lower Upper

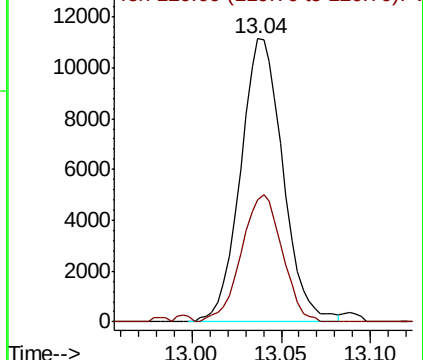
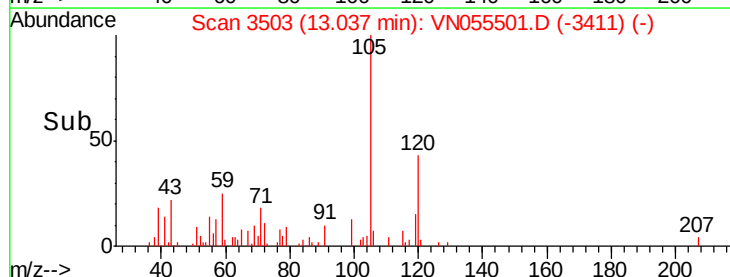
105 100

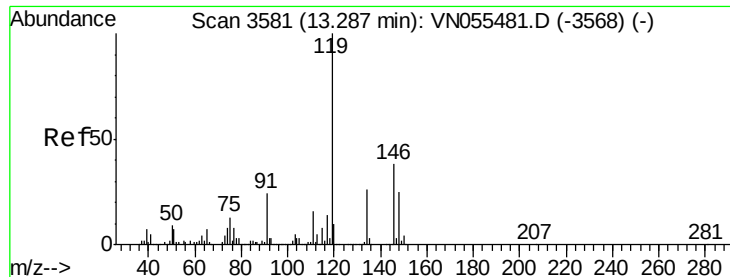
120 43.2 22.1 66.5



Abundance Ion 105.00 (104.70 to 105.70): VN055501.D (-3411) (-)

Ion 120.00 (119.70 to 120.70): VN055501.D (-3411) (-)

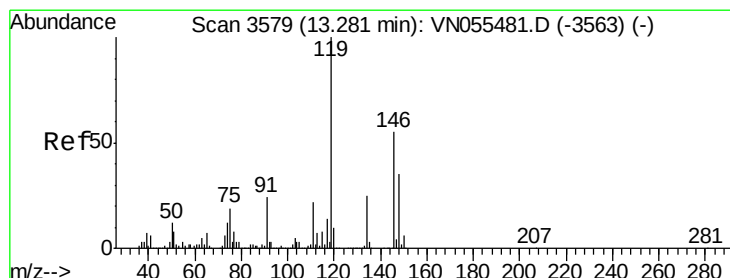
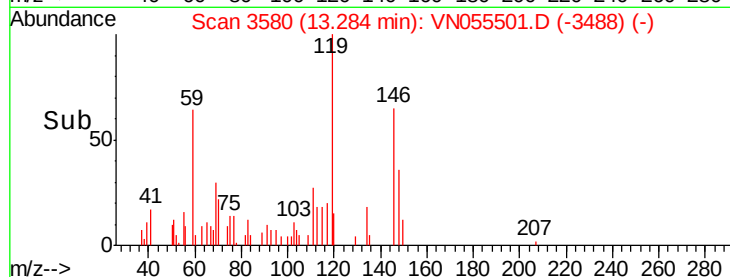
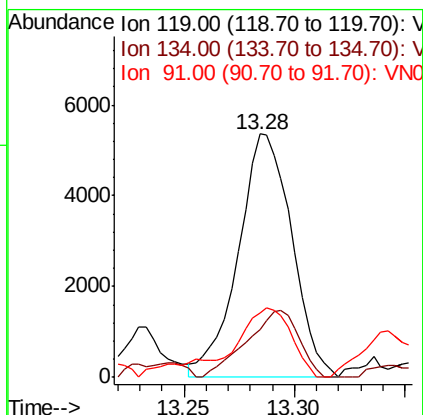
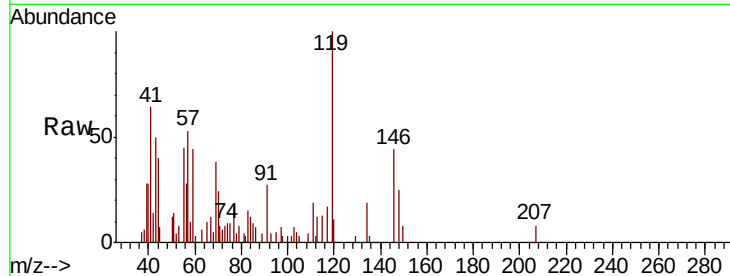




#86  
 p-Isopropyltoluene  
 Concen: 0.311 ug/l  
 RT: 13.28 min Scan# 3580  
 Delta R.T. -0.00 min  
 Lab File: VN055501.D  
 Acq: 9 May 2019 16:54

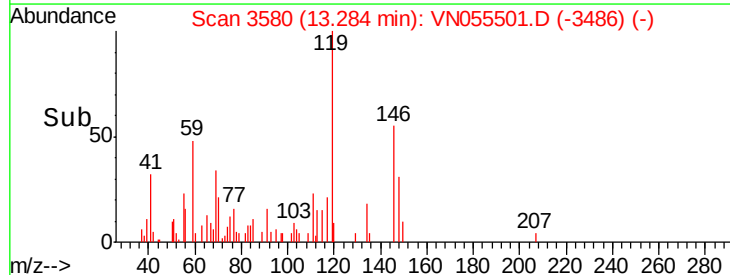
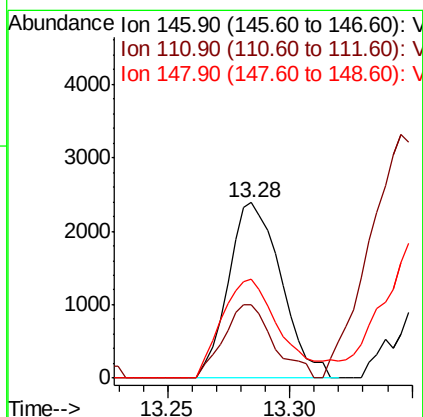
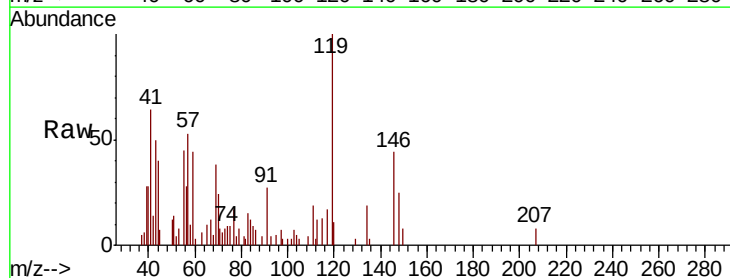
Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 COMP-2

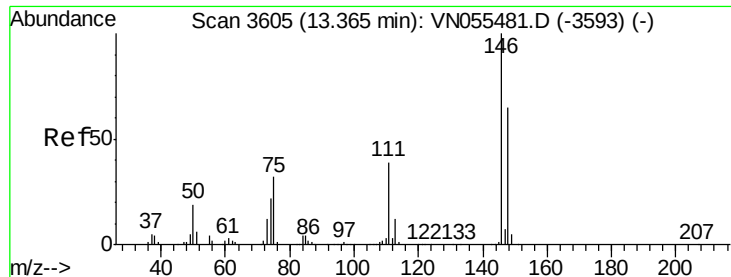
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 119     | 100   |       |       |
| 134     | 26.7  | 12.8  | 38.4  |
| 91      | 26.4  | 12.0  | 36.0  |



#87  
 1,3-Dichlorobenzene  
 Concen: 0.267 ug/l  
 RT: 13.28 min Scan# 3580  
 Delta R.T. 0.00 min  
 Lab File: VN055501.D  
 Acq: 9 May 2019 16:54

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 146     | 100   |       |       |
| 111     | 39.8  | 20.4  | 61.3  |
| 148     | 62.0  | 32.1  | 96.5  |

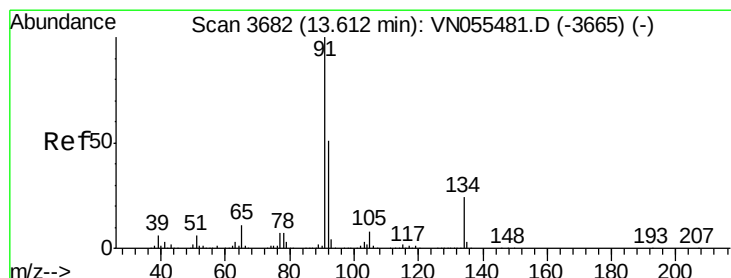
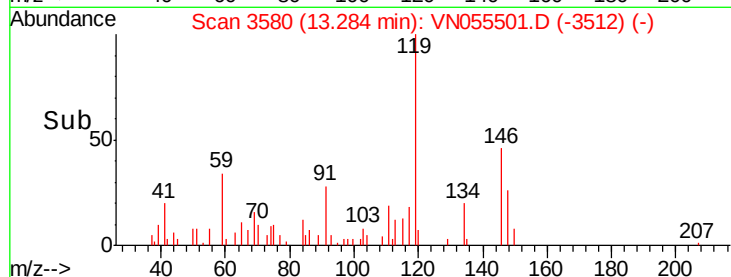
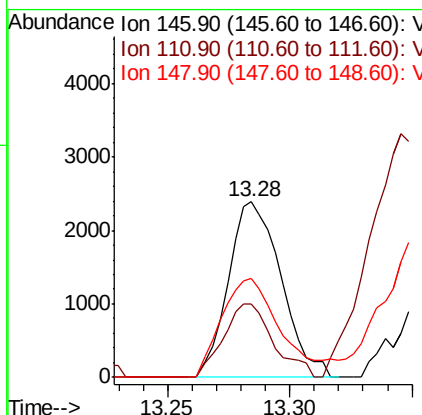
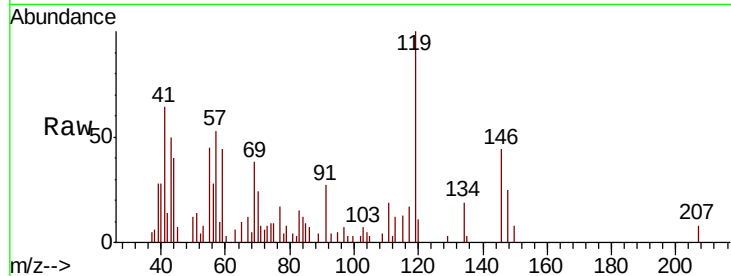




#88  
 1,4-Dichlorobenzene  
 Concen: 0.271 ug/l  
 RT: 13.28 min Scan# 3580  
 Delta R.T. -0.08 min  
 Lab File: VN055501.D  
 Acq: 9 May 2019 16:54

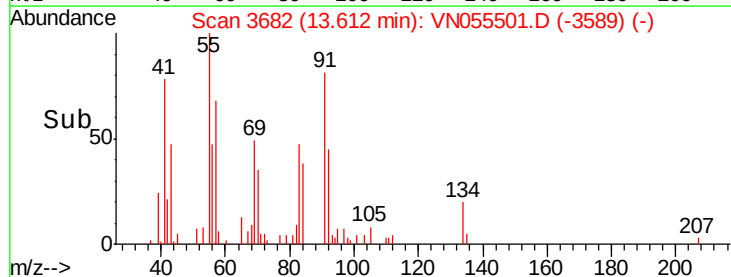
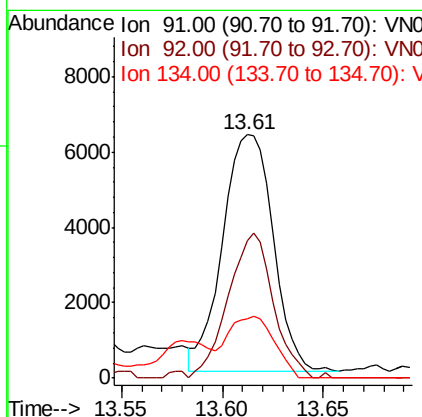
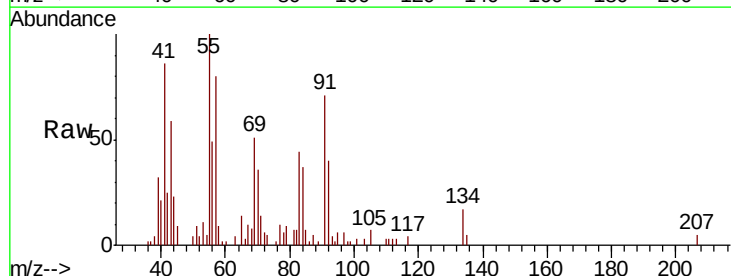
Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 COMP-2

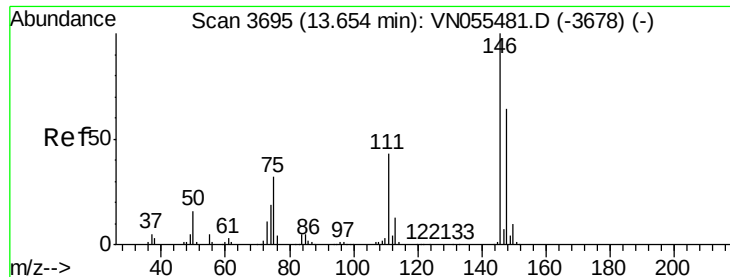
Tot Ion:146 Resp: 3584  
 Ion Ratio Lower Upper  
 146 100  
 111 39.8 19.6 58.8  
 148 62.0 32.5 97.4



#89  
 n-Butylbenzene  
 Concen: 0.487 ug/l  
 RT: 13.61 min Scan# 3682  
 Delta R.T. 0.00 min  
 Lab File: VN055501.D  
 Acq: 9 May 2019 16:54

Tgt Ion: 91 Resp: 11037  
 Ion Ratio Lower Upper  
 91 100  
 92 54.6 25.9 77.7  
 134 23.9 11.8 35.4

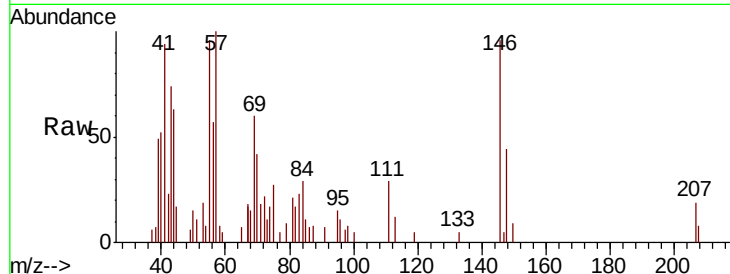




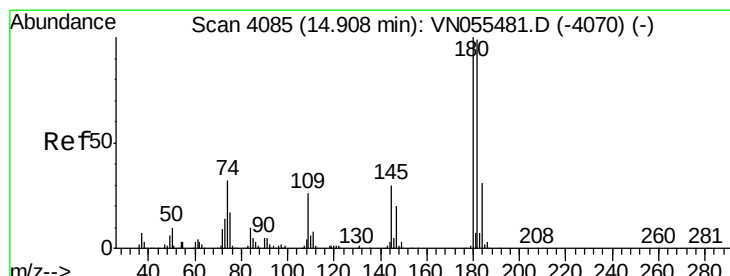
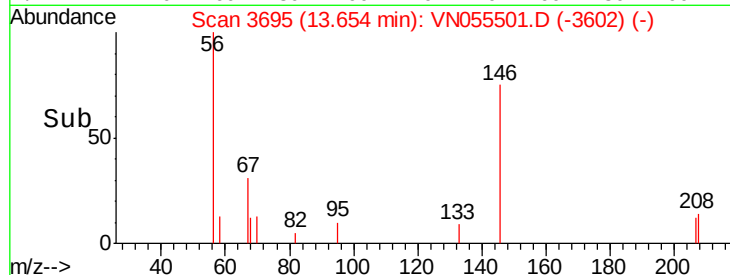
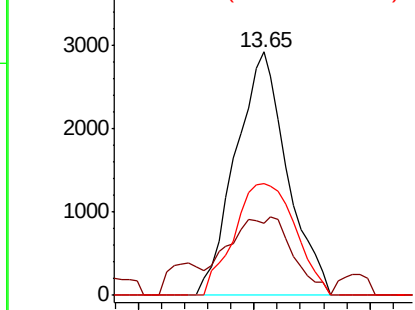
#91  
 1,2-Dichlorobenzene  
 Concen: 0.338 ug/l  
 RT: 13.65 min Scan# 3695  
 Delta R.T. 0.00 min  
 Lab File: VN055501.D  
 Acq: 9 May 2019 16:54

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 COMP-2

Tot Ion:146 Resp: 4529  
 Ion Ratio Lower Upper  
 146 100  
 111 40.4 21.3 63.7  
 148 54.4 31.9 95.9

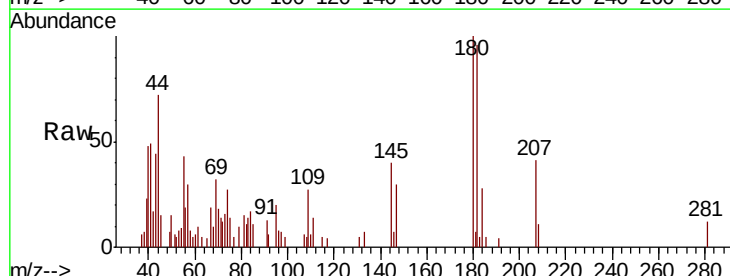


Abundance Ion 145.90 (145.60 to 146.60): V  
 Ion 110.90 (110.60 to 111.60): V  
 Ion 147.90 (147.60 to 148.60): V

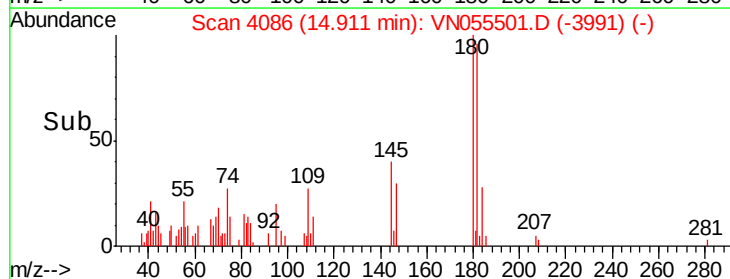
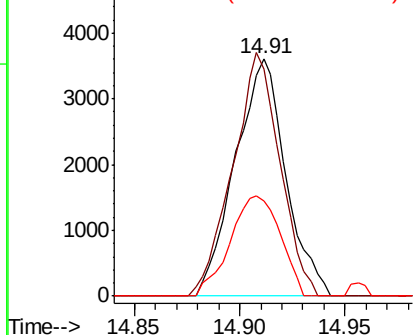


#93  
 1,2,4-Trichlorobenzene  
 Concen: 4.168 ug/l  
 RT: 14.91 min Scan# 4086  
 Delta R.T. 0.00 min  
 Lab File: VN055501.D  
 Acq: 9 May 2019 16:54

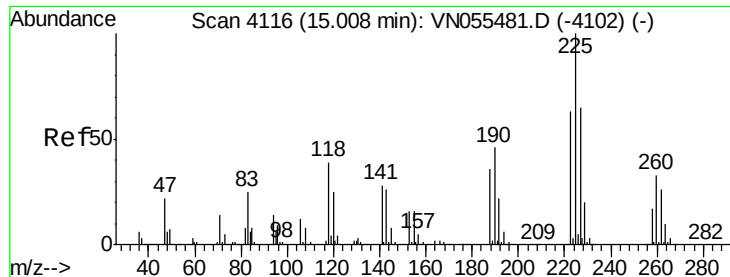
Tgt Ion:180 Resp: 6004  
 Ion Ratio Lower Upper  
 180 100  
 182 95.4 48.7 146.1  
 145 42.0 15.3 45.9



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# 4116

Delta R.T. 0.00 min

Lab File: VN055501.D

Acq: 9 May 2019 16:54

Instrument :

MSVOA\_N

ClientSampleId :

COMP-2

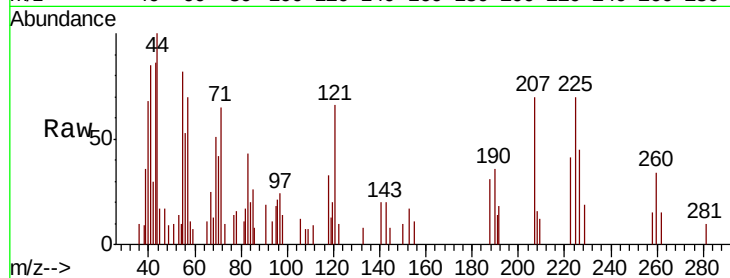
Tot Ion:225 Resp: 2248

Ion Ratio Lower Upper

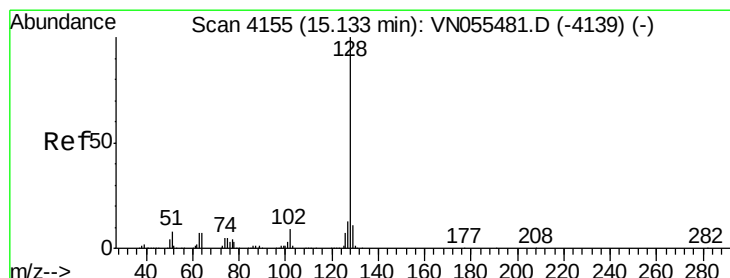
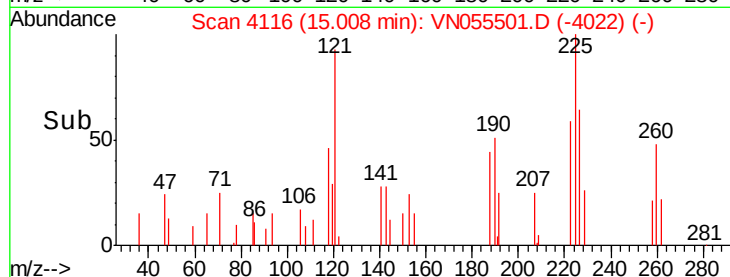
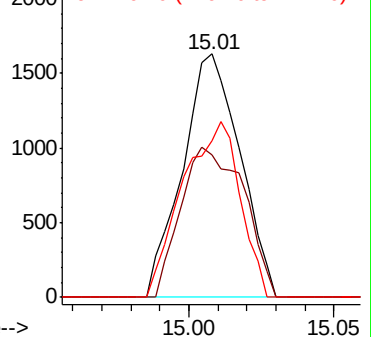
225 100

223 67.9 31.4 94.3

227 72.3 32.0 96.0



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



#95

Naphthalene

Concen: 5.693 ug/l

RT: 15.13 min Scan# 4154

Delta R.T. -0.00 min

Lab File: VN055501.D

Acq: 9 May 2019 16:54

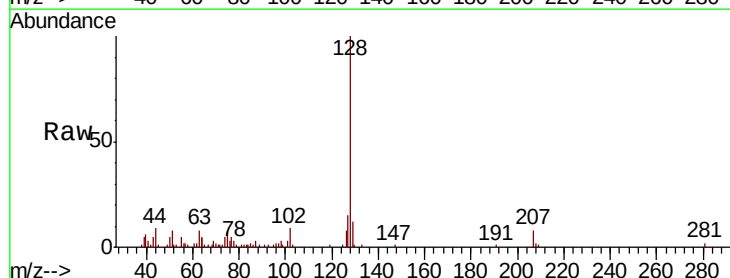
Tgt Ion:128 Resp: 48102

Ion Ratio Lower Upper

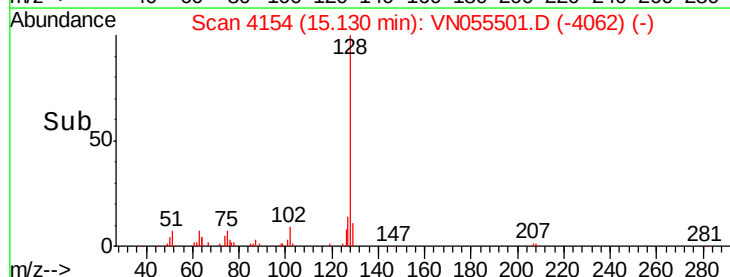
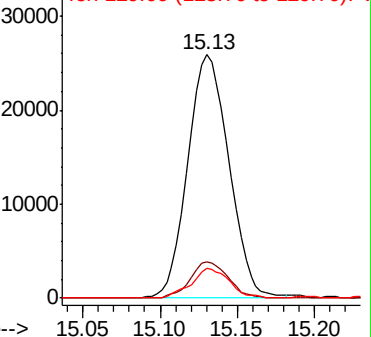
128 100

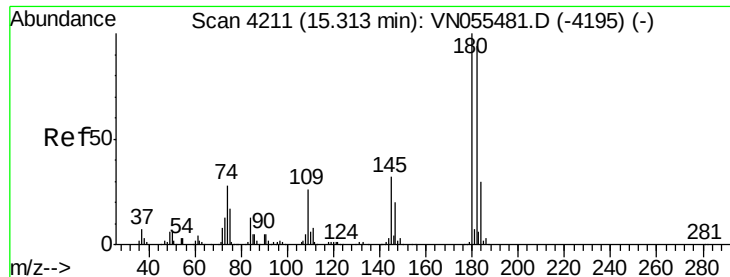
127 13.7 10.0 15.0

129 11.3 8.8 13.2



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: 3.693 ug/l

RT: 15.31 min Scan# 4210

Delta R.T. -0.00 min

Lab File: VN055501.D

Acq: 9 May 2019 16:54

Instrument :

MSVOA\_N

ClientSampleId :

COMP-2

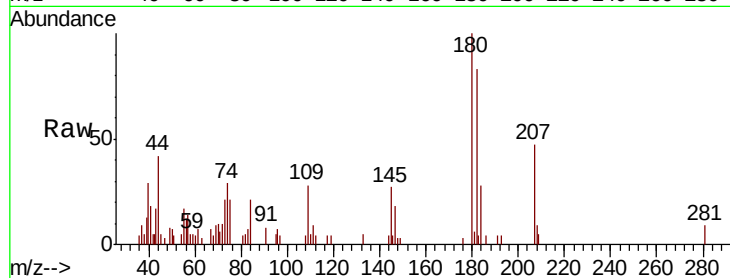
Tot Ion:180 Resp: 8440

Ion Ratio Lower Upper

180 100

182 90.0 47.1 141.3

145 32.9 15.8 47.4



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

