

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_N\DATA\VN050919\  
 Data File : VN055495.D  
 Acq On : 9 May 2019 14:23  
 Operator : JC/SP  
 Sample : K2673-01  
 Misc : 5.01g/10mL/100uL/5.00mL/MSVOA\_N/MEOH  
 ALS Vial : 12 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 SB-11-1.5-2.0

Quant Time: May 09 14:56:59 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      | 7.66  | 168  | 798073   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.58  | 114  | 1312694  | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.41 | 117  | 1134272  | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.34 | 152  | 423944   | 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   | 549850   | 45.76 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 91.52% |          |
| 35) Dibromofluoromethane    | 7.59  | 113  | 408368   | 48.23 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 96.46% |          |
| 50) Toluene-d8              | 10.09 | 98   | 1622725  | 49.18 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 98.36% |          |
| 62) 4-Bromofluorobenzene    | 12.40 | 95   | 533090   | 47.91 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 95.82% |          |

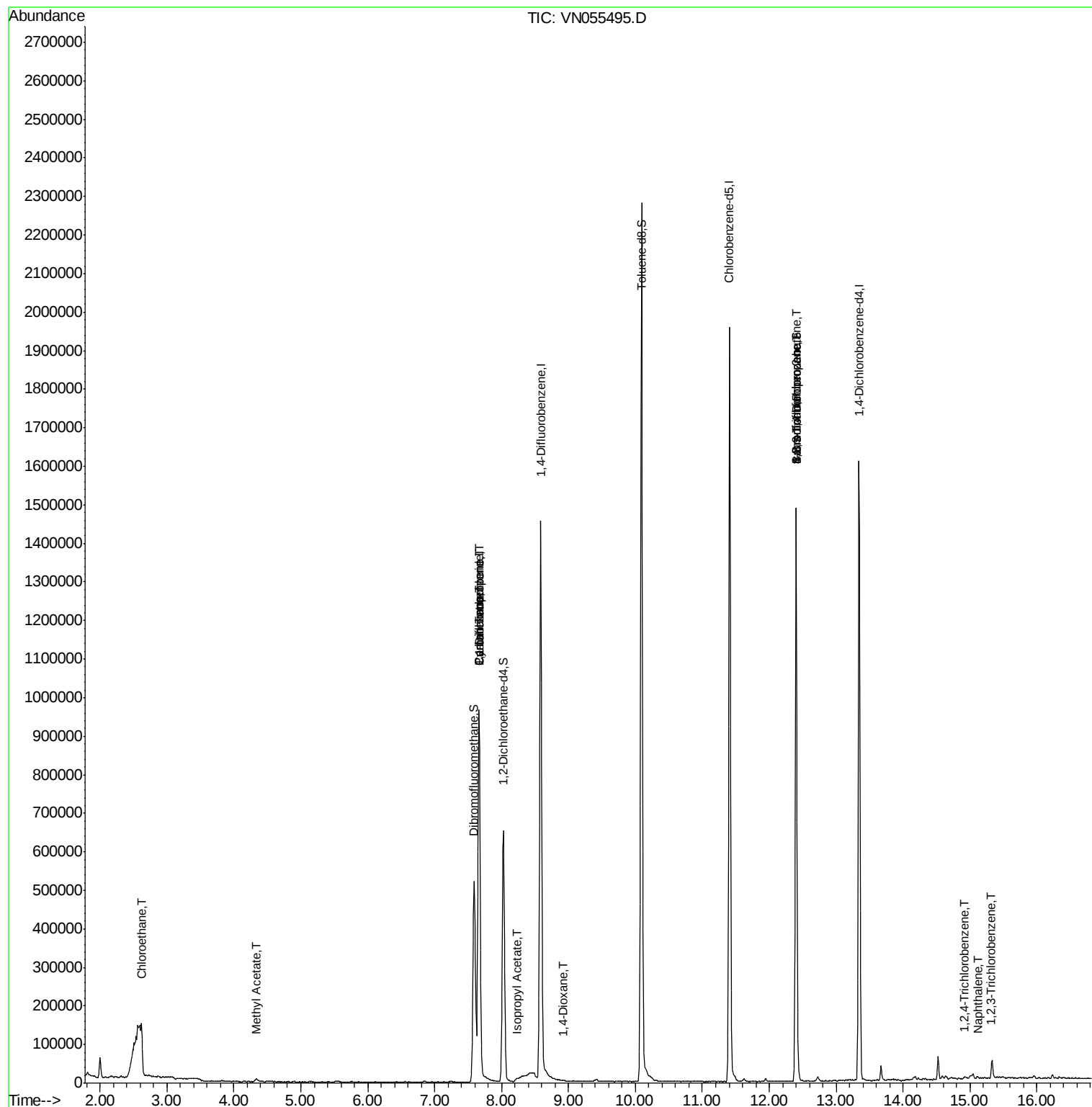
| Target Compounds               | R.T.  | QIon | Response | Conc      | Units  | Qvalue |
|--------------------------------|-------|------|----------|-----------|--------|--------|
| 6) Chloroethane                | 2.61  | 64   | 1920     | 0.265     | ug/l # | 83     |
| 18) Methyl Acetate             | 4.34  | 43   | 18573    | 0.495     | ug/l   | 96     |
| 31) Cyclohexane                | 7.66  | 56   | 18042    | 0.930     | ug/l # | 1      |
| 36) 1,1-Dichloropropene        | 7.66  | 75   | 64650    | 4.999     | ug/l # | 51     |
| 38) Carbon Tetrachloride       | 7.66  | 117  | 74939    | 6.882     | ug/l # | 16     |
| 43) Isopropyl Acetate          | 8.23  | 43   | 6271     | 0.293     | ug/l # | 63     |
| 49) 1,4-Dioxane                | 8.92  | 88   | 62       | 0.308     | ug/l # | 1      |
| 71) Bromoform                  | 12.40 | 173  | 3715     | 0.685     | ug/l # | 1      |
| 73) Isopropylbenzene           | 12.25 | 105  | 265      | Below Cal |        | 80     |
| 75) 1,1,2,2-Tetrachloroethane  | 12.48 | 83   | 65       | Below Cal | #      | 25     |
| 76) 1,2,3-Trichloropropane     | 12.40 | 75   | 266200   | 23.065    | ug/l # | 100    |
| 81) trans-1,4-Dichloro-2-buten | 12.40 | 75   | 266200   | 85.107    | ug/l # | 7      |
| 93) 1,2,4-Trichlorobenzene     | 14.90 | 180  | 267      | 3.245     | ug/l # | 1      |
| 94) Hexachlorobutadiene        | 15.01 | 225  | 150      | Below Cal | #      | 31     |
| 95) Naphthalene                | 15.14 | 128  | 2494     | 3.070     | ug/l # | 88     |
| 96) 1,2,3-Trichlorobenzene     | 15.31 | 180  | 323      | 2.468     | ug/l # | 4      |

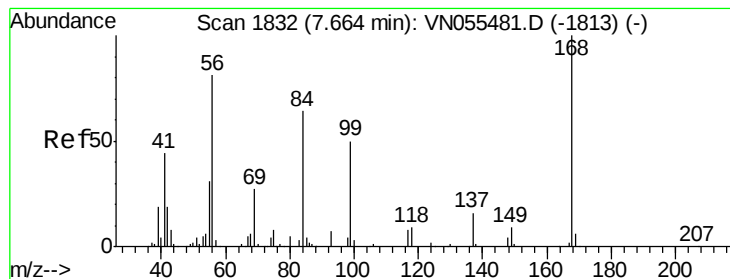
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA\_N\DATA\VN050919\  
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Instrument :  
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ClientSampleId :  
SB-11-1.5-2.0

Quant Time: May 09 14:56:59 2019  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_N\METHODS\82N050819W.M  
Quant Title : SW846 8260  
QLast Update : Thu May 09 04:17:44 2019  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. -0.00 min

Lab File: VN055495.D

Acq: 9 May 2019 14:23

Instrument :

MSVOA\_N

ClientSampleId :

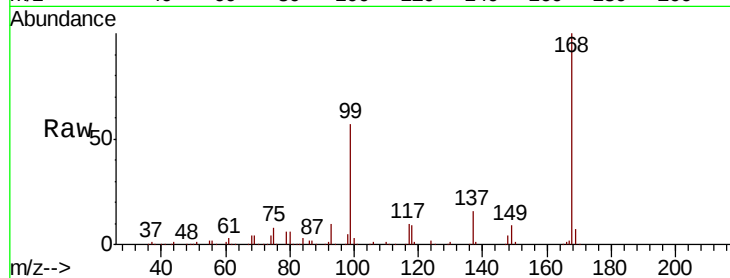
SB-11-1.5-2.0

Tgt Ion:168 Resp: 798073

Ion Ratio Lower Upper

168 100

99 57.3 47.0 70.4



Abundance Ion 167.90 (167.60 to 168.60): VN055481.D (-1813) (-)

Ion 98.90 (98.60 to 99.60): VN055481.D (-1813) (-)

7.66

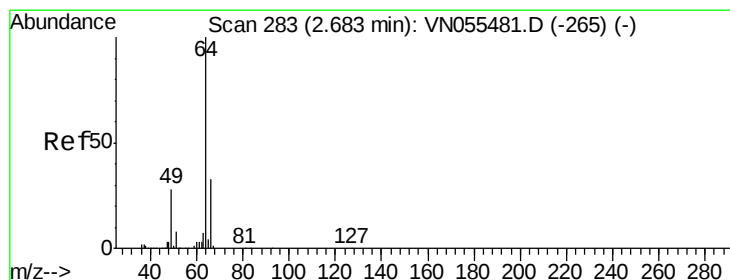
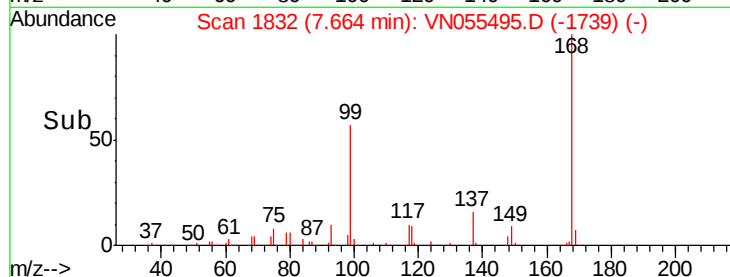
300000

200000

100000

0

Time-->



#6

Chloroethane

Concen: 0.265 ug/l

RT: 2.61 min Scan# 260

Delta R.T. -0.07 min

Lab File: VN055495.D

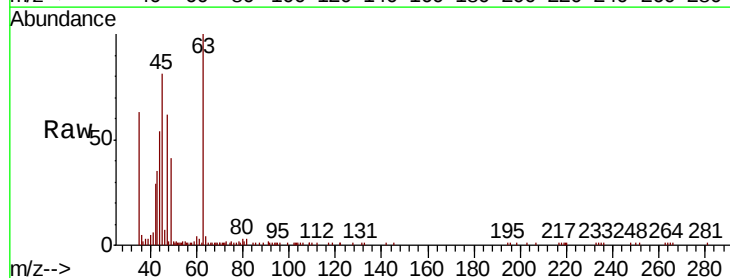
Acq: 9 May 2019 14:23

Tgt Ion: 64 Resp: 1920

Ion Ratio Lower Upper

64 100

66 23.2 26.2 39.2#



Abundance Ion 63.90 (63.60 to 64.60): VN055481.D (-265) (-)

Ion 65.90 (65.60 to 66.60): VN055481.D (-265) (-)

2.61

1000

800

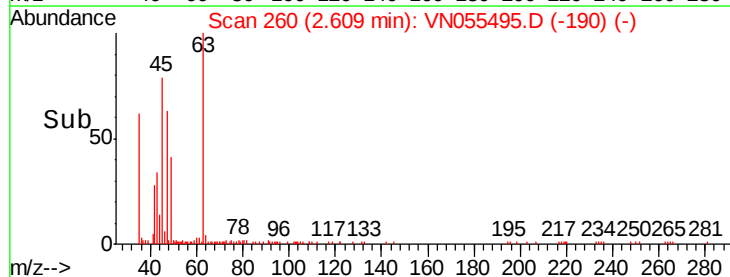
600

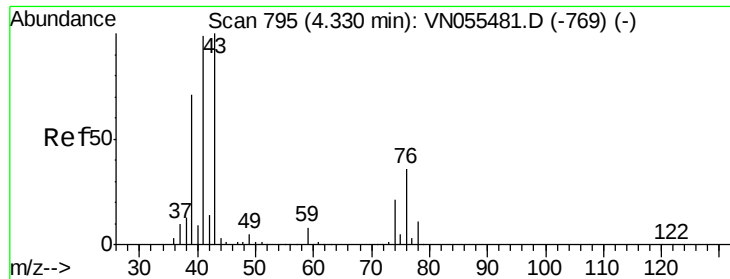
400

200

0

Time-->

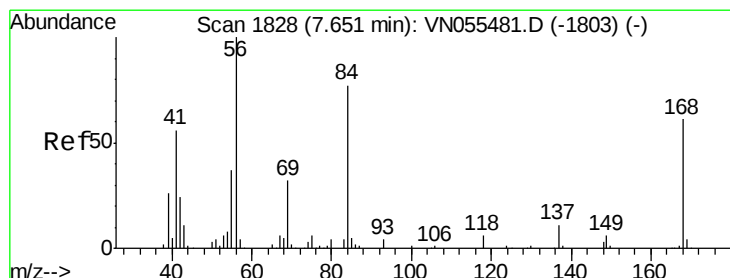
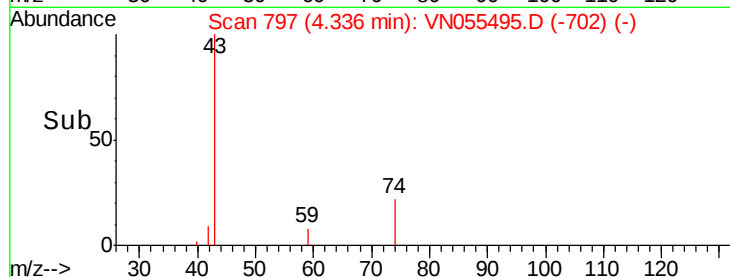
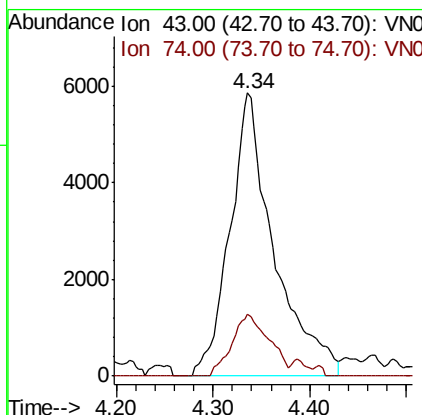
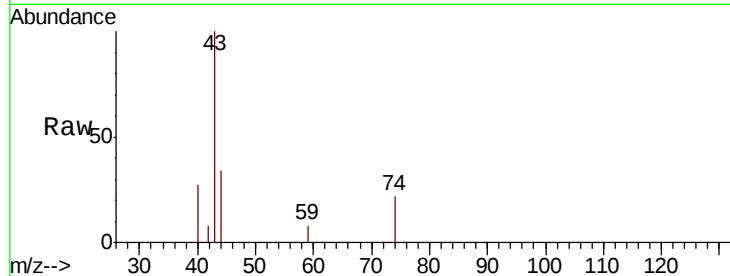




#18  
Methyl Acetate  
Concen: 0.495 ug/l  
RT: 4.34 min Scan# 797  
Delta R.T. 0.01 min  
Lab File: VN055495.D  
Acq: 9 May 2019 14:23

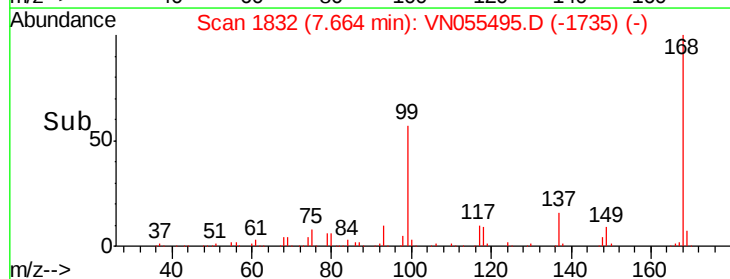
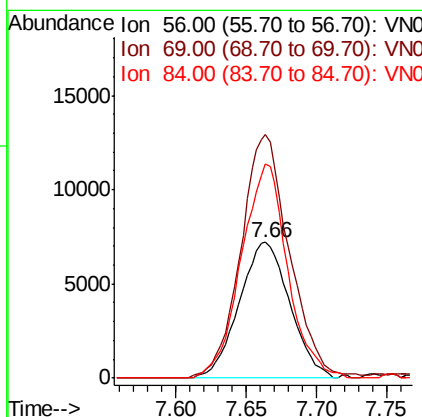
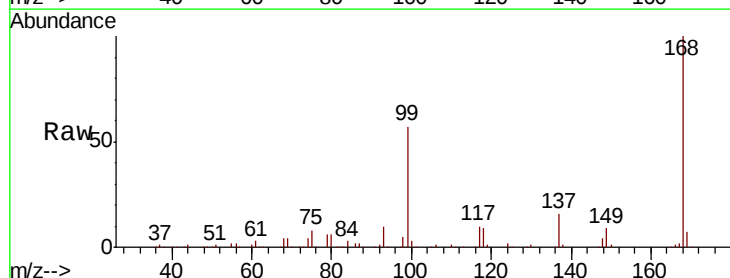
Instrument :  
MSVOA\_N  
ClientSampleId :  
SB-11-1.5-2.0

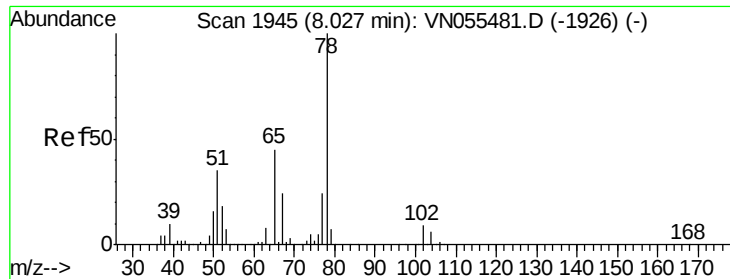
Tgt Ion: 43 Resp: 18573  
Ion Ratio Lower Upper  
43 100  
74 18.4 16.3 24.5



#31  
Cyclohexane  
Concen: 0.930 ug/l  
RT: 7.66 min Scan# 1832  
Delta R.T. 0.01 min  
Lab File: VN055495.D  
Acq: 9 May 2019 14:23

Tgt Ion: 56 Resp: 18042  
Ion Ratio Lower Upper  
56 100  
69 179.4 26.0 39.0#  
84 157.6 61.9 92.9#

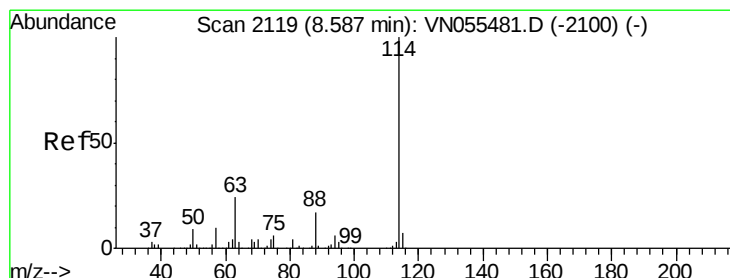
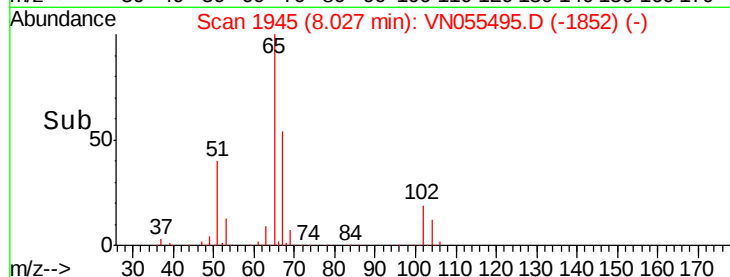
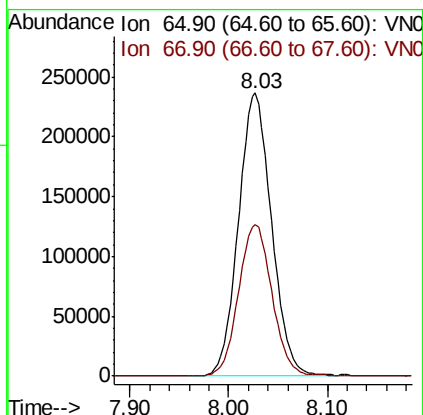
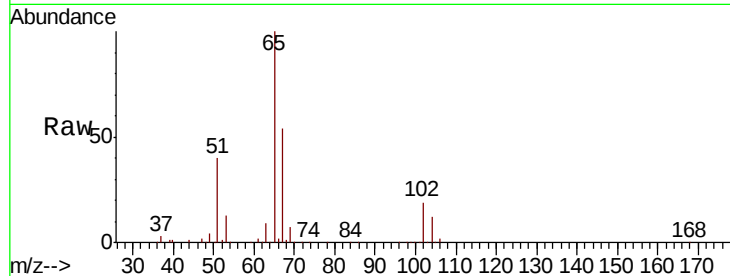




#33  
 1,2-Dichloroethane-d4  
 Concen: 45.759 ug/l  
 RT: 8.03 min Scan# 1945  
 Delta R.T. -0.00 min  
 Lab File: VN055495.D  
 Acq: 9 May 2019 14:23

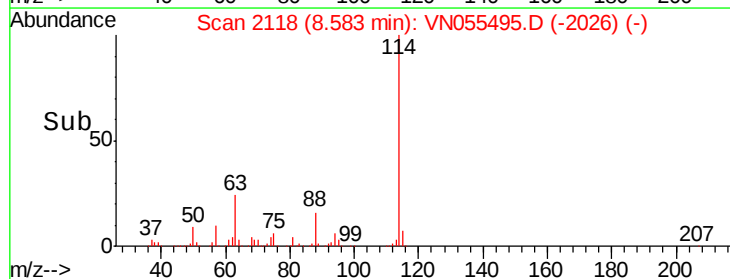
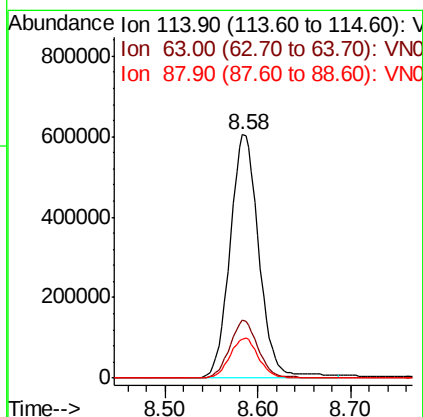
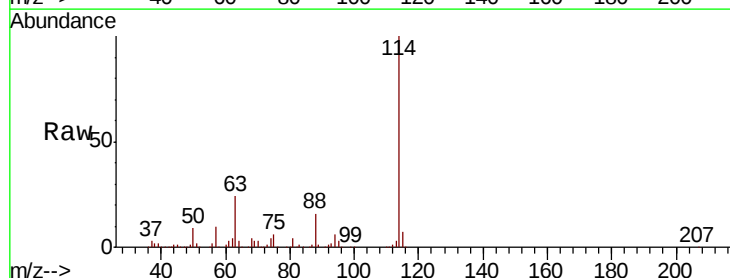
Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 SB-11-1.5-2.0

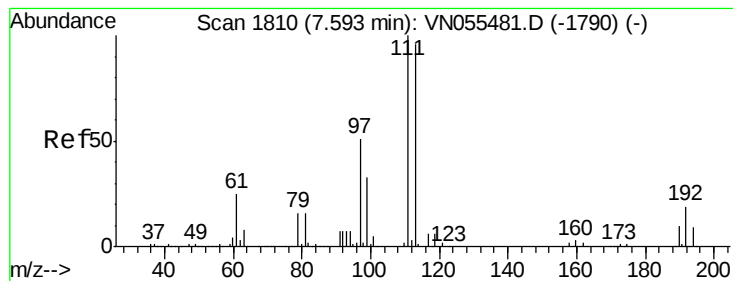
Tgt Ion: 65 Resp: 549850  
 Ion Ratio Lower Upper  
 65 100  
 67 54.0 0.0 109.6



#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.58 min Scan# 2118  
 Delta R.T. -0.00 min  
 Lab File: VN055495.D  
 Acq: 9 May 2019 14:23

Tgt Ion: 114 Resp: 1312694  
 Ion Ratio Lower Upper  
 114 100  
 63 23.7 0.0 47.4  
 88 16.2 0.0 34.0





#35

Dibromofluoromethane

Concen: 48.225 ug/l

RT: 7.59 min Scan# 1809

Delta R.T. -0.00 min

Lab File: VN055495.D

Acq: 9 May 2019 14:23

Instrument :

MSVOA\_N

ClientSampleId :

SB-11-1.5-2.0

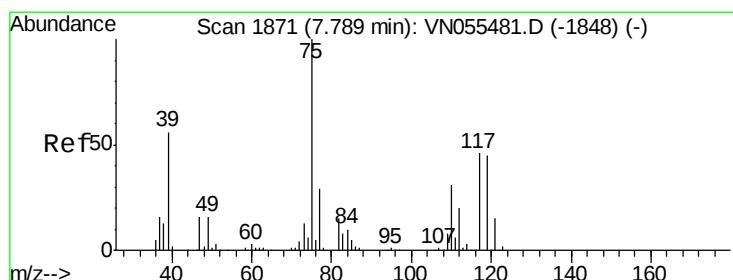
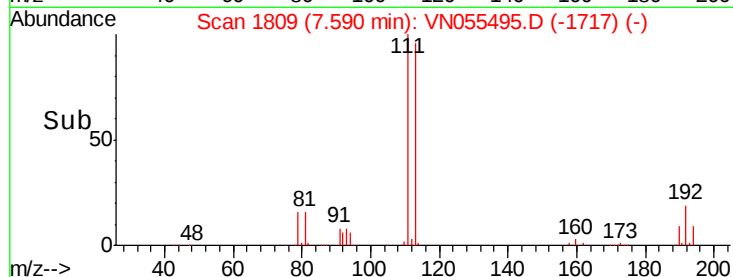
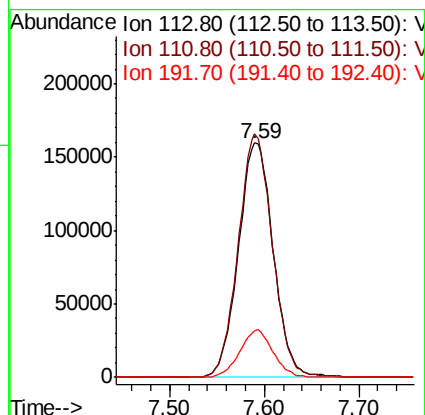
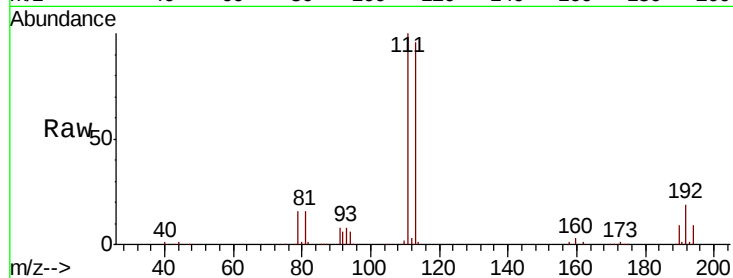
Tgt Ion:113 Resp: 408368

Ion Ratio Lower Upper

113 100

111 101.7 82.9 124.3

192 19.3 15.6 23.4



#36

1,1-Dichloropropene

Concen: 4.999 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. -0.13 min

Lab File: VN055495.D

Acq: 9 May 2019 14:23

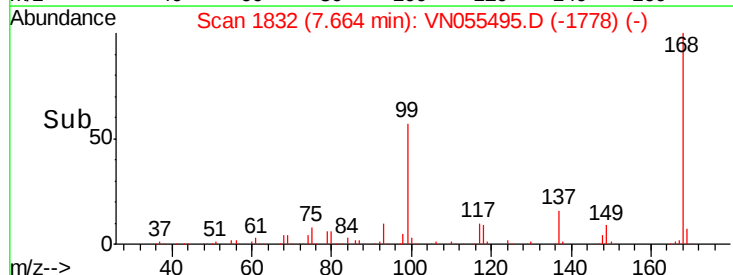
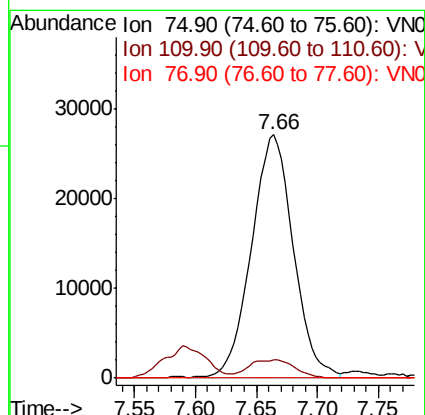
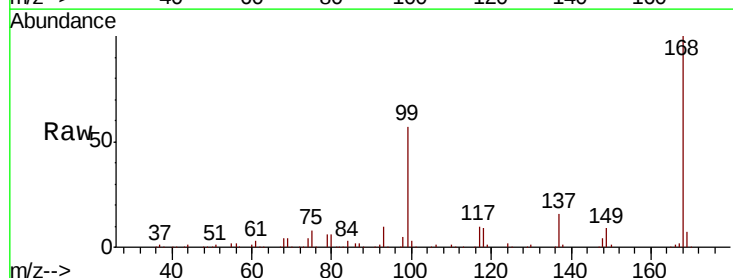
Tgt Ion: 75 Resp: 64650

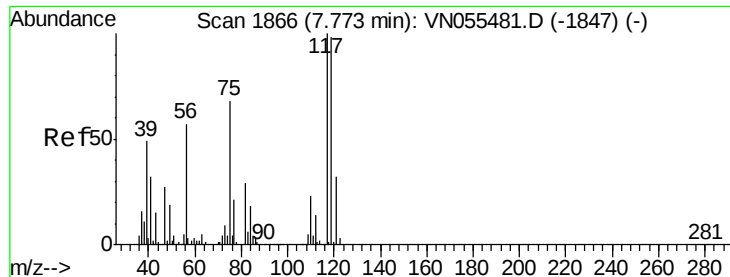
Ion Ratio Lower Upper

75 100

110 8.3 16.1 48.3#

77 0.0 24.6 37.0#





#38

Carbon Tetrachloride

Concen: 6.882 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. -0.11 min

Lab File: VN055495.D

Acq: 9 May 2019 14:23

Instrument :

MSVOA\_N

ClientSampleId :

SB-11-1.5-2.0

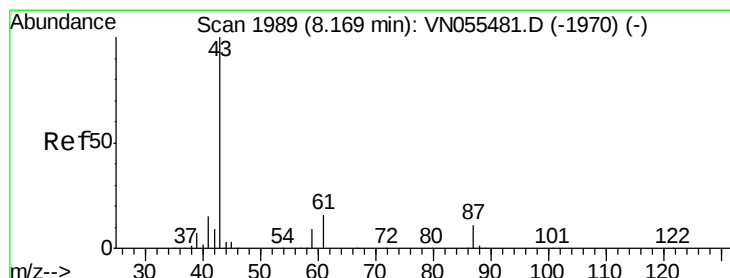
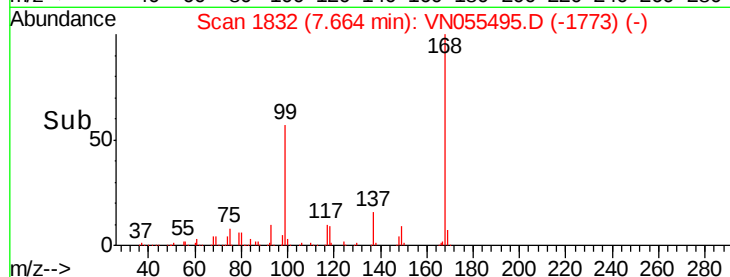
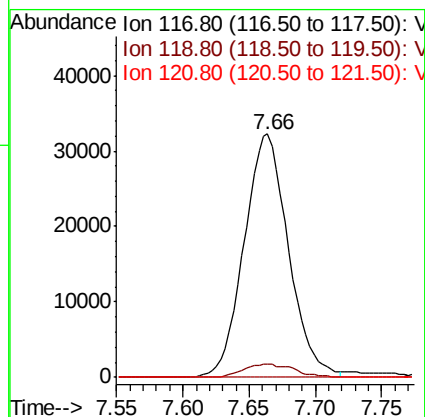
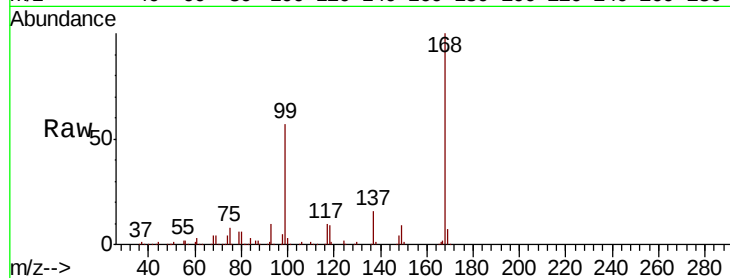
Tgt Ion:117 Resp: 74939

Ion Ratio Lower Upper

117 100

119 5.5 77.8 116.6#

121 0.0 25.2 37.8#



#43

Isopropyl Acetate

Concen: 0.293 ug/l

RT: 8.23 min Scan# 2007

Delta R.T. 0.06 min

Lab File: VN055495.D

Acq: 9 May 2019 14:23

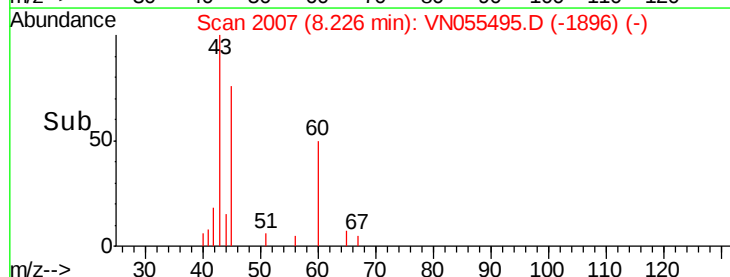
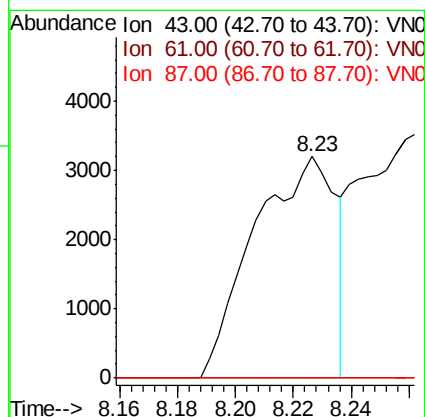
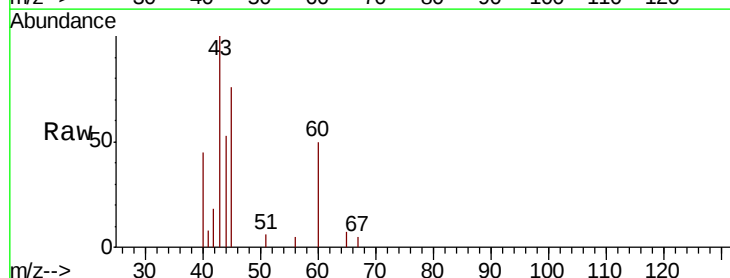
Tgt Ion: 43 Resp: 6271

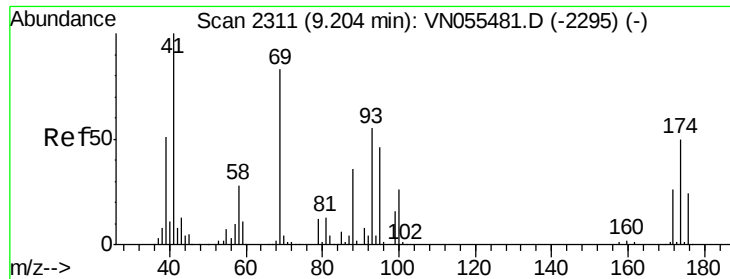
Ion Ratio Lower Upper

43 100

61 0.0 15.1 22.7#

87 0.0 9.0 13.6#

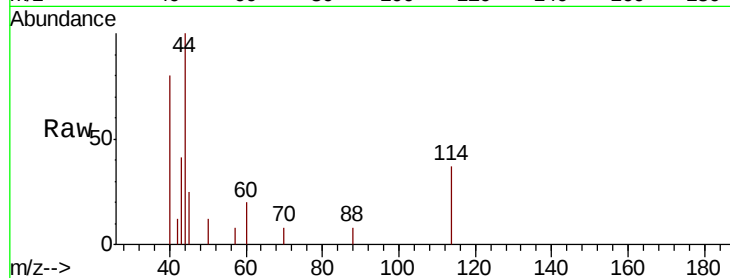




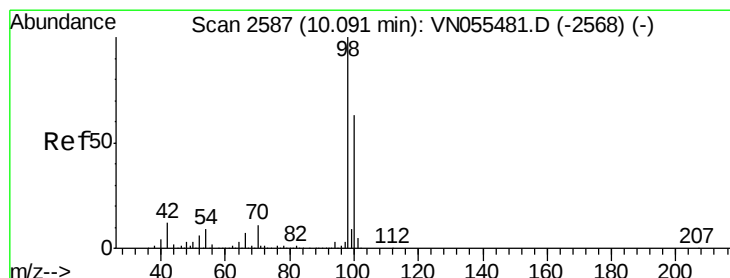
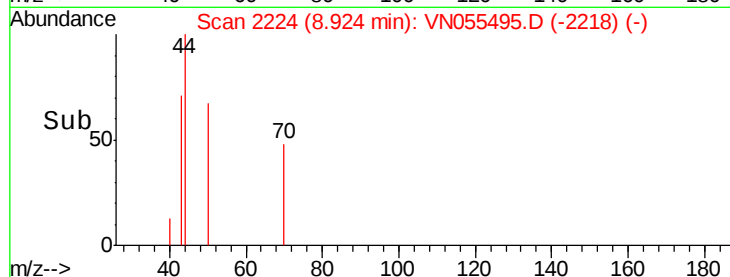
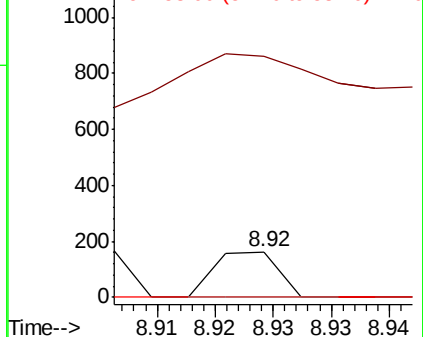
#49  
1,4-Dioxane  
Concen: 0.308 ug/l  
RT: 8.92 min Scan# 2224  
Delta R.T. -0.28 min  
Lab File: VN055495.D  
Acq: 9 May 2019 14:23

Instrument :  
MSVOA\_N  
ClientSampleId :  
SB-11-1.5-2.0

Tgt Ion: 88 Resp: 62  
Ion Ratio Lower Upper  
88 100  
43 408.1 27.8 41.8#  
58 0.0 61.8 92.6#

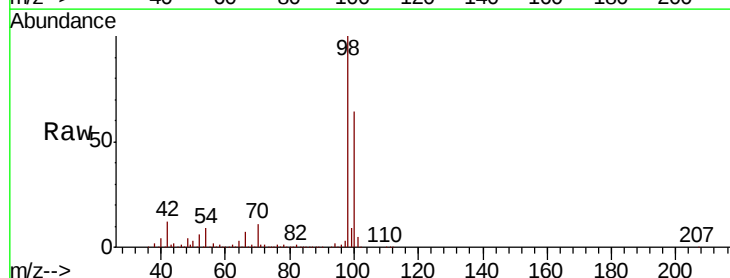


Abundance Ion 88.00 (87.70 to 88.70): VN0  
Ion 43.00 (42.70 to 43.70): VN0  
Ion 58.00 (57.70 to 58.70): VN0

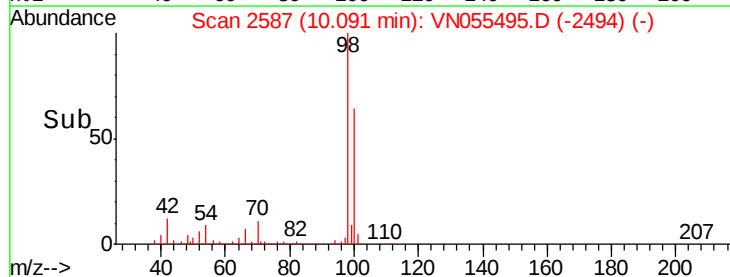
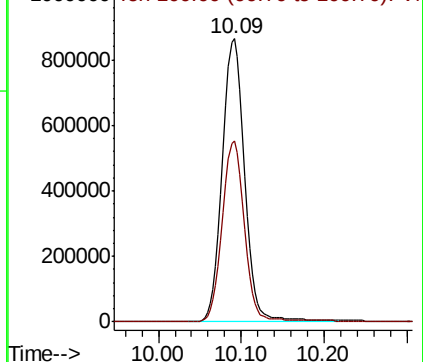


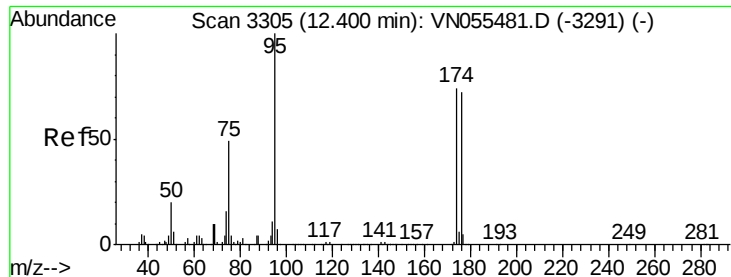
#50  
Toluene-d8  
Concen: 49.175 ug/l  
RT: 10.09 min Scan# 2587  
Delta R.T. -0.00 min  
Lab File: VN055495.D  
Acq: 9 May 2019 14:23

Tgt Ion: 98 Resp: 1622725  
Ion Ratio Lower Upper  
98 100  
100 63.8 50.4 75.6



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





#62

4-Bromofluorobenzene

Concen: 47.911 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.00 min

Lab File: VN055495.D

Acq: 9 May 2019 14:23

Instrument :

MSVOA\_N

ClientSampled :

SB-11-1.5-2.0

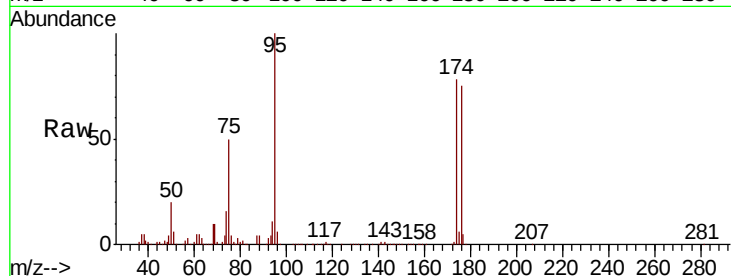
Tgt Ion: 95 Resp: 533090

Ion Ratio Lower Upper

95 100

174 77.6 0.0 152.2

176 74.8 0.0 147.8



Abundance Ion 94.90 (94.60 to 95.60): VN055481.D (-3291) (-)

Ion 173.80 (173.50 to 174.50): VN055481.D (-3291) (-)

Ion 175.80 (175.50 to 176.50): VN055481.D (-3291) (-)

12.40

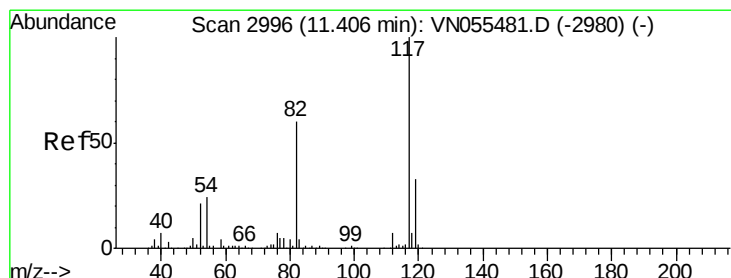
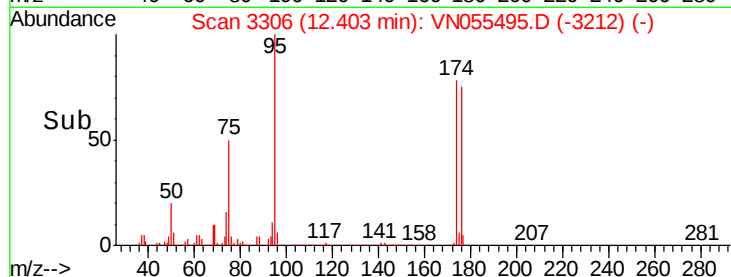
300000

200000

100000

0

Time--> 12.30 12.40 12.50



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2996

Delta R.T. -0.00 min

Lab File: VN055495.D

Acq: 9 May 2019 14:23

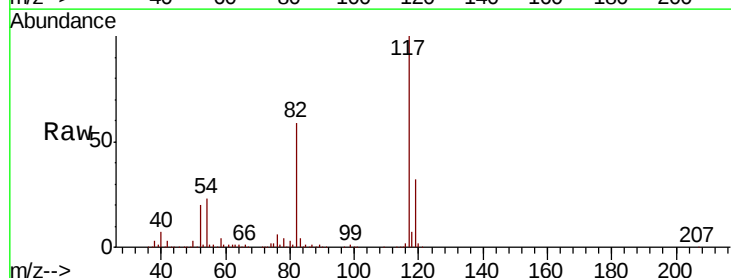
Tgt Ion: 117 Resp: 1134272

Ion Ratio Lower Upper

117 100

82 59.1 48.0 72.0

119 31.9 26.0 39.0



Abundance Ion 116.90 (116.60 to 117.60): VN055481.D (-2980) (-)

Ion 82.00 (81.70 to 82.70): VN055481.D (-2980) (-)

Ion 118.90 (118.60 to 119.60): VN055481.D (-2980) (-)

11.41

800000

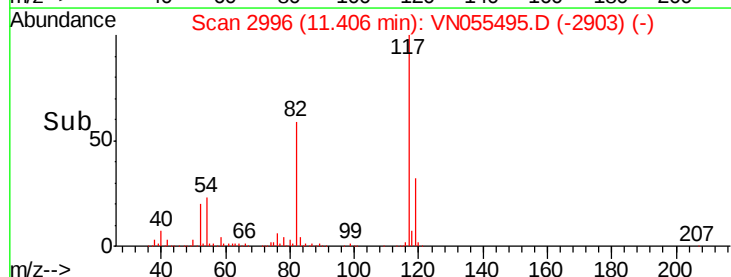
600000

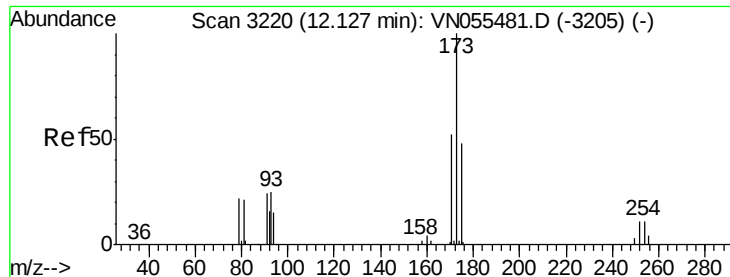
400000

200000

0

Time--> 11.30 11.40 11.50





#71

Bromoform

Concen: 0.685 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.28 min

Lab File: VN055495.D

Acq: 9 May 2019 14:23

Instrument :

MSVOA\_N

ClientSampleId :

SB-11-1.5-2.0

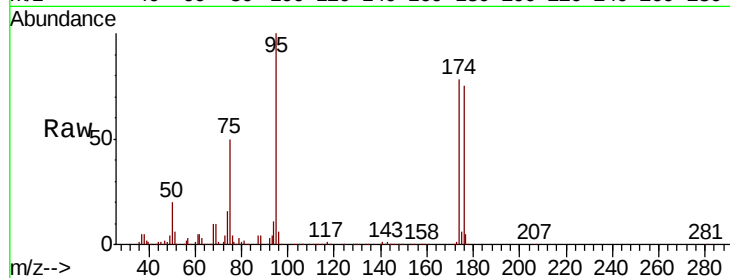
Tgt Ion:173 Resp: 3715

Ion Ratio Lower Upper

173 100

175 687.7 24.1 72.4#

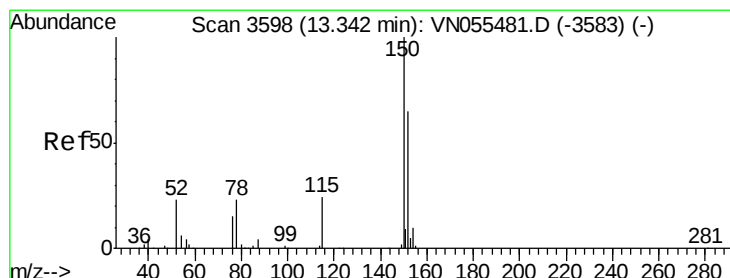
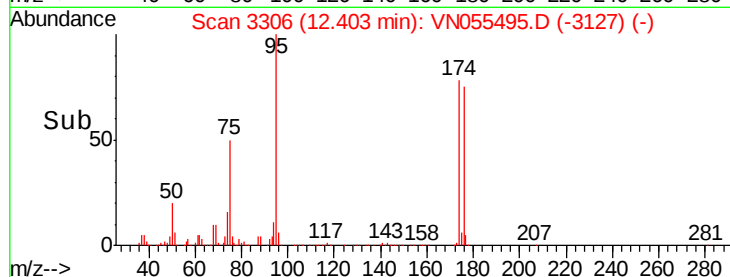
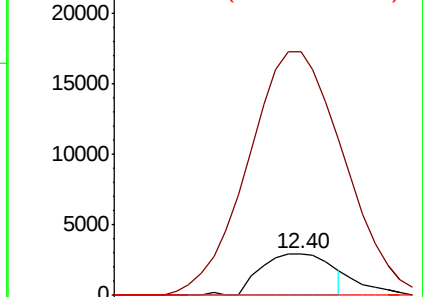
254 0.0 0.1 0.1#



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: VN055495.D

Acq: 9 May 2019 14:23

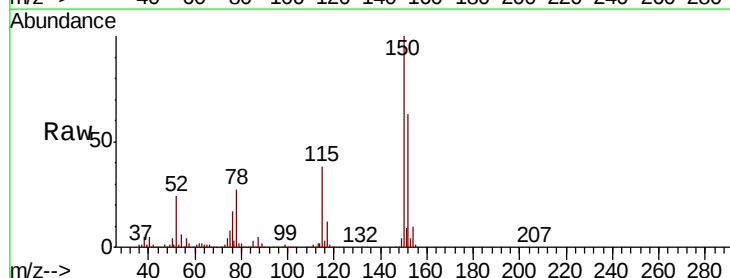
Tgt Ion:152 Resp: 423944

Ion Ratio Lower Upper

152 100

115 60.3 30.1 90.5

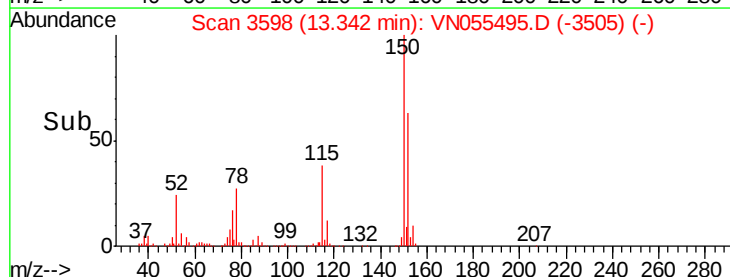
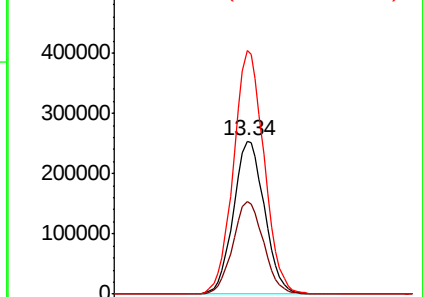
150 157.2 0.0 355.0

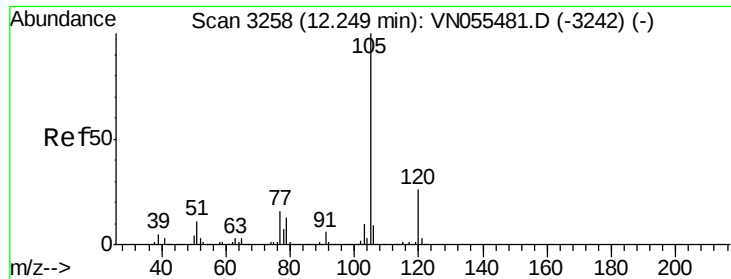


Abundance Ion 151.90 (151.60 to 152.60): V

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# 3258

Delta R.T. 0.00 min

Lab File: VN055495.D

Acq: 9 May 2019 14:23

Instrument :

MSVOA\_N

ClientSampleId :

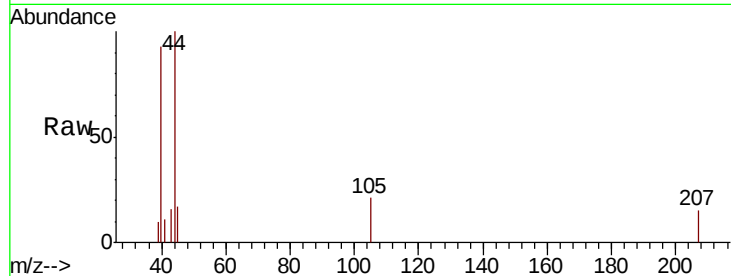
SB-11-1.5-2.0

Tgt Ion: 105 Resp: 265

Ion Ratio Lower Upper

105 100

120 36.2 13.0 39.0



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

12.25

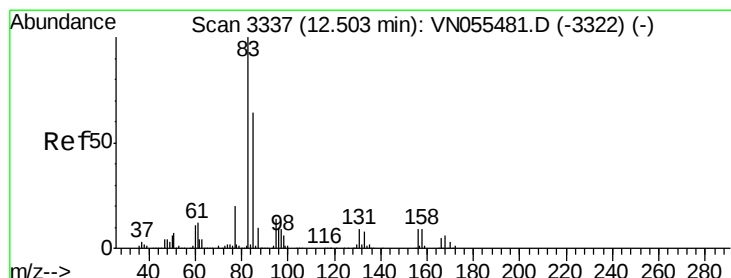
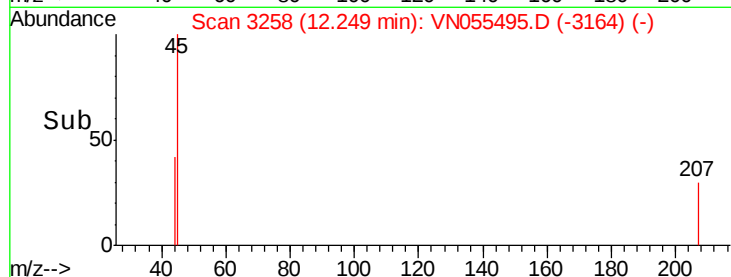
300

200

100

0

Time--> 12.23 12.24 12.25 12.26



#75

1,1,2,2-Tetrachloroethane

Concen: Below Cal

RT: 12.48 min Scan# 3329

Delta R.T. -0.02 min

Lab File: VN055495.D

Acq: 9 May 2019 14:23

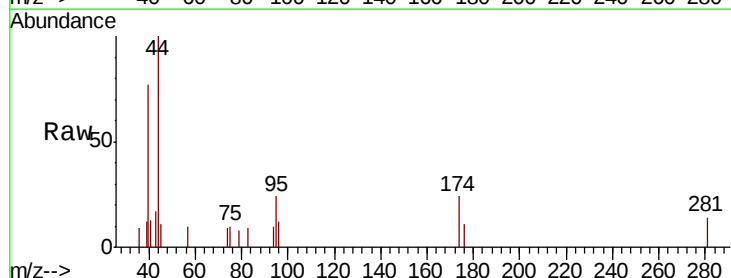
Tgt Ion: 83 Resp: 65

Ion Ratio Lower Upper

83 100

131 0.0 4.5 13.5#

85 0.0 32.0 96.0#



Abundance Ion 82.90 (82.60 to 83.60): V

Ion 130.80 (130.50 to 131.50): V

Ion 84.90 (84.60 to 85.60): V

200

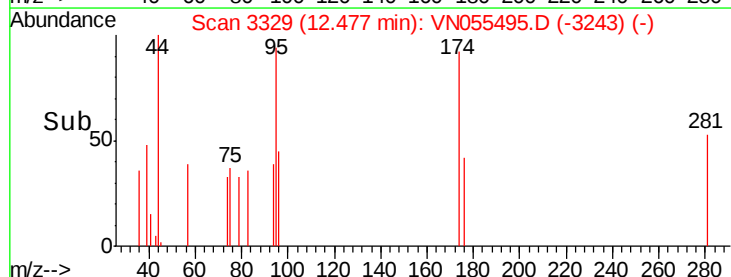
150

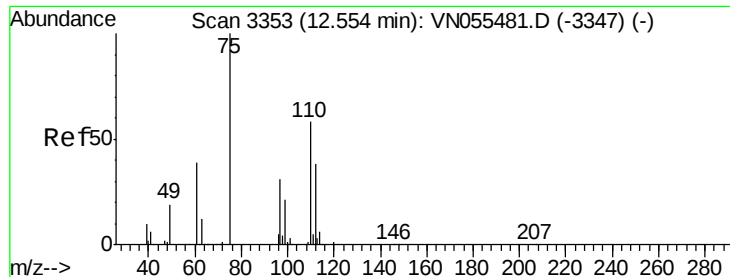
100

50

0

Time--> 12.46 12.47 12.48





#76

1,2,3-Trichloropropane

Concen: 23.065 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. -0.15 min

Lab File: VN055495.D

Acq: 9 May 2019 14:23

Instrument :

MSVOA\_N

ClientSampleId :

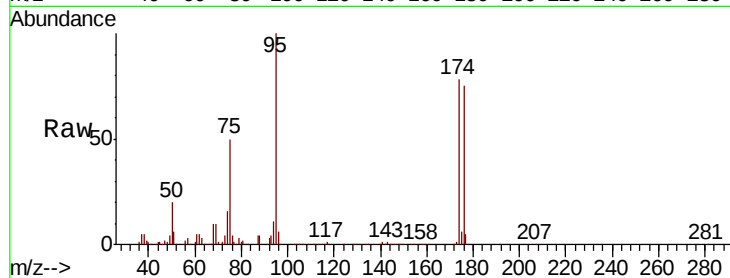
SB-11-1.5-2.0

Tgt Ion: 75 Resp: 266200

Ion Ratio Lower Upper

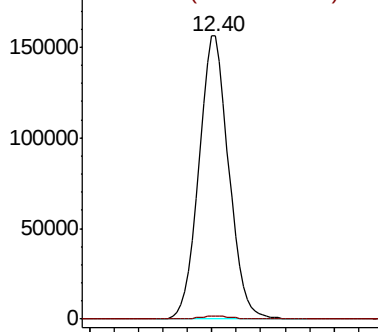
75 100

77 1.3 0.0 0.0#

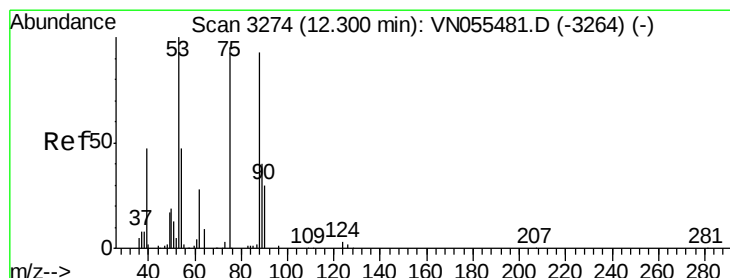
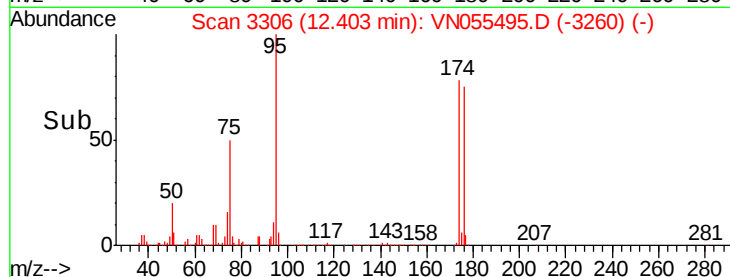


Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 77.00 (76.70 to 77.70): VNO



Time--> 12.30 12.40 12.50



#81

trans-1,4-Dichloro-2-butene

Concen: 85.107 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.10 min

Lab File: VN055495.D

Acq: 9 May 2019 14:23

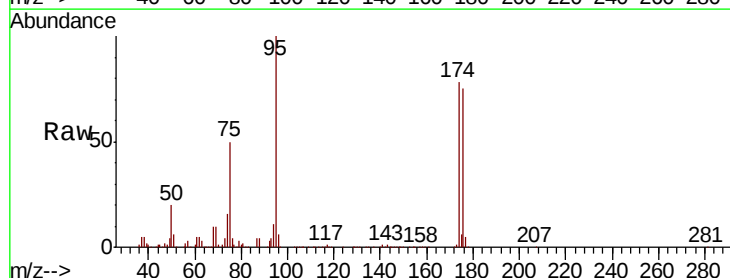
Tgt Ion: 75 Resp: 266200

Ion Ratio Lower Upper

75 100

53 0.0 86.5 129.7#

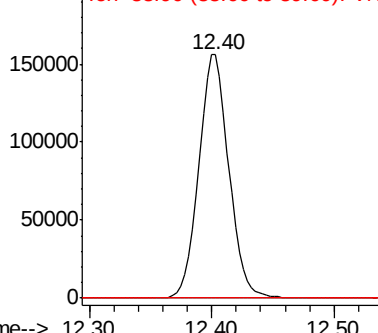
89 0.0 35.7 53.5#



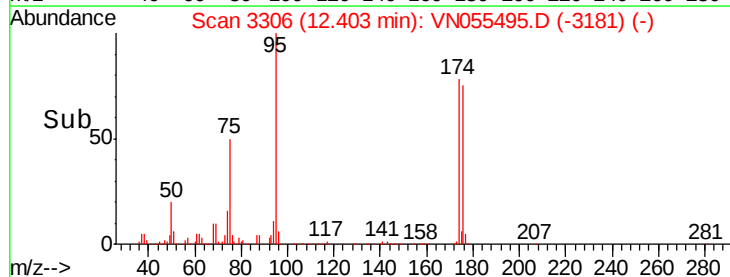
Abundance Ion 74.90 (74.60 to 75.60): VNO

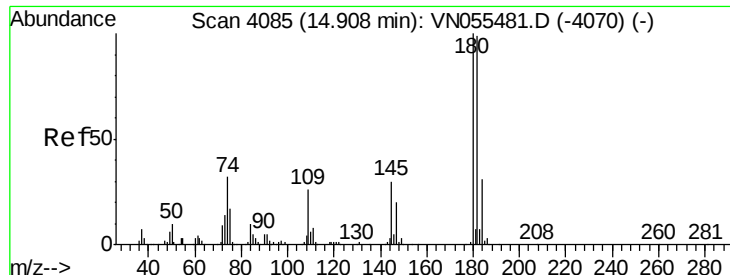
Ion 53.00 (52.70 to 53.70): VNO

Ion 88.90 (88.60 to 89.60): VNO



Time--> 12.30 12.40 12.50

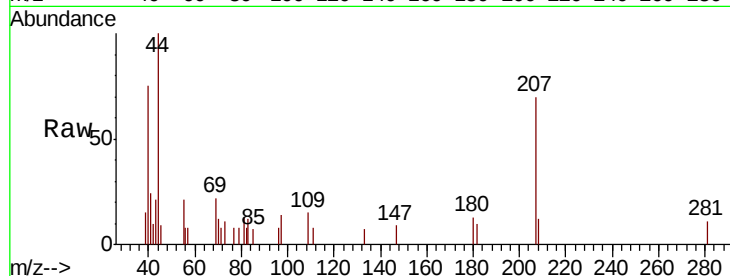




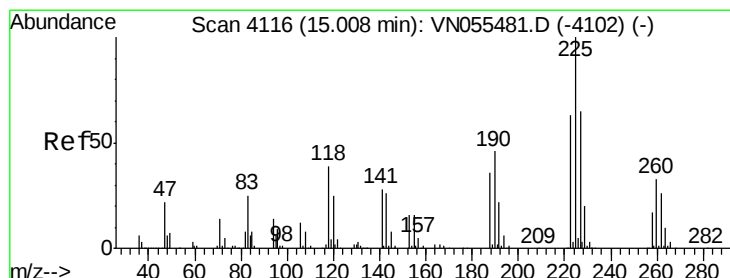
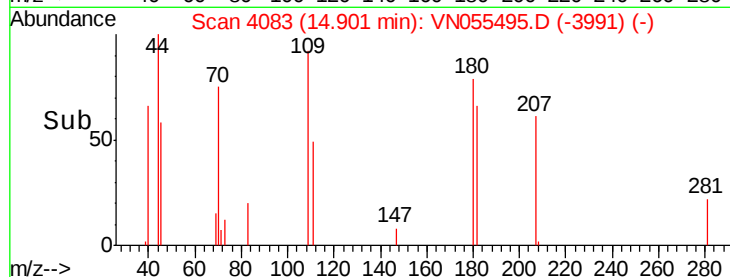
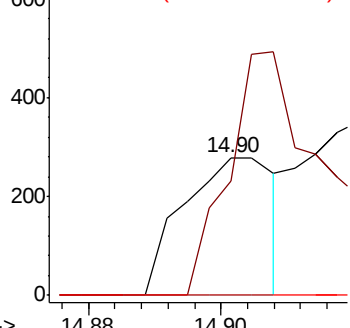
#93  
 1,2,4-Trichlorobenzene  
 Concen: 3.245 ug/l  
 RT: 14.90 min Scan# 4083  
 Delta R.T. -0.01 min  
 Lab File: VN055495.D  
 Acq: 9 May 2019 14:23

Instrument :  
 MSVOA\_N  
 ClientSampled :  
 SB-11-1.5-2.0

Tgt Ion:180 Resp: 267  
 Ion Ratio Lower Upper  
 180 100  
 182 215.0 48.7 146.1#  
 145 0.0 15.3 45.9#

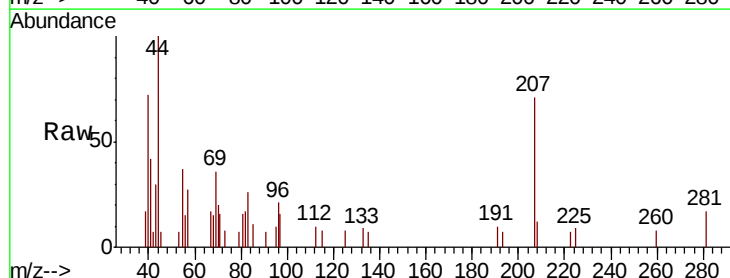


Abundance Ion 179.80 (179.50 to 180.50): V  
 Ion 181.80 (181.50 to 182.50): V  
 Ion 144.80 (144.50 to 145.50): V

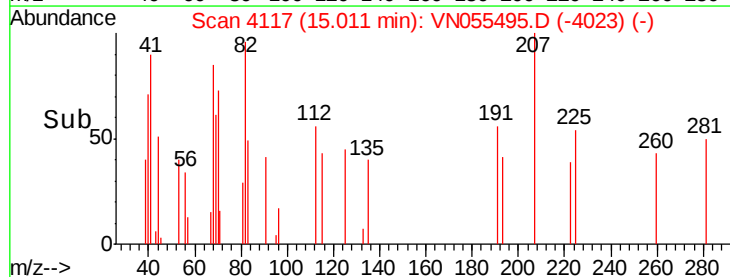
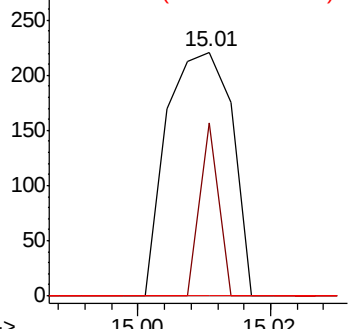


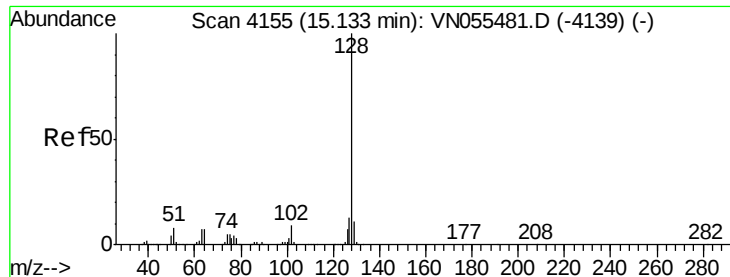
#94  
 Hexachlorobutadiene  
 Concen: Below Cal  
 RT: 15.01 min Scan# 4117  
 Delta R.T. 0.00 min  
 Lab File: VN055495.D  
 Acq: 9 May 2019 14:23

Tgt Ion:225 Resp: 150  
 Ion Ratio Lower Upper  
 225 100  
 223 20.0 31.4 94.3#  
 227 0.0 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

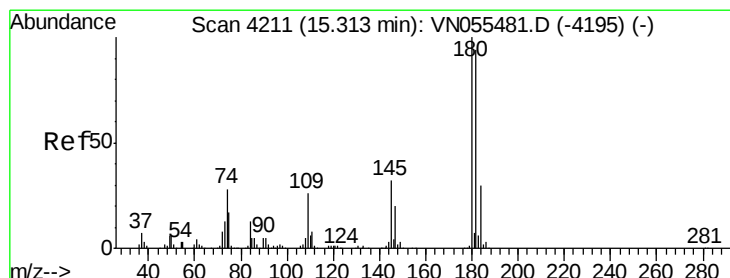
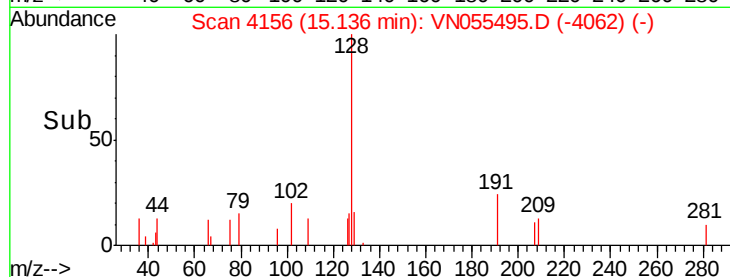
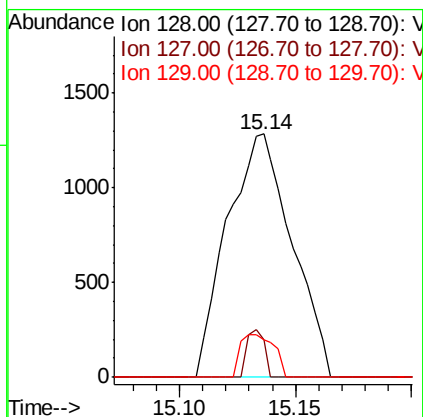
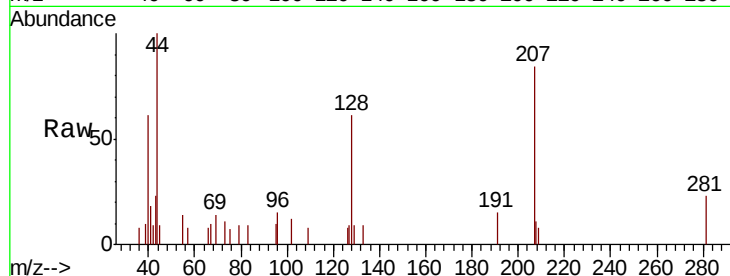




#95  
Naphthalene  
Concen: 3.070 ug/l  
RT: 15.14 min Scan# 4156  
Delta R.T. 0.00 min  
Lab File: VN055495.D  
Acq: 9 May 2019 14:23

Instrument :  
MSVOA\_N  
ClientSampled :  
SB-11-1.5-2.0

Tgt Ion:128 Resp: 2494  
Ion Ratio Lower Upper  
128 100  
127 5.2 10.0 15.0#  
129 9.1 8.8 13.2



#96  
1,2,3-Trichlorobenzene  
Concen: 2.468 ug/l  
RT: 15.31 min Scan# 4209  
Delta R.T. -0.01 min  
Lab File: VN055495.D  
Acq: 9 May 2019 14:23

Tgt Ion:180 Resp: 323  
Ion Ratio Lower Upper  
180 100  
182 217.6 47.1 141.3#  
145 33.1 15.8 47.4

