

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN092518\
 Data File : VN051477.D
 Acq On : 25 Sep 2018 11:13
 Operator : MD\SY
 Sample : I.BLK
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 I.BLK

Quant Time: Sep 26 02:07:31 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N092518W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Sep 26 01:19:41 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.20	128	115925	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.59	114	594802	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	493807	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.03	65	238276	29.87	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	99.57%
60) 4-Bromofluorobenzene	12.40	95	169258	23.35	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	77.83%
63) Toluene-d8	10.09	98	709058	29.95	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	99.83%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.85	85	1294	0.261	ug/l 93
3) Chloromethane	2.06	50	2164	0.253	ug/l 97
4) Vinyl Chloride	2.19	62	2816	0.309	ug/l 91
5) Bromomethane	2.57	94	4497	0.755	ug/l 98
10) 1,1-Dichloroethene	3.74	96	1865	0.341	ug/l 79
11) Methyl Iodide	3.95	142	1929	0.239	ug/l # 65
12) Methyl Acetate	4.34	43	2348	0.488	ug/l # 68
13) Acrolein	3.61	56	627	0.978	ug/l # 37
14) Acrylonitrile	5.01	53	3058	1.566	ug/l # 66
15) Acetone	3.83	58	329	0.684	ug/l # 1
16) Carbon Disulfide	4.05	76	29089	1.677	ug/l 98
18) Methylene Chloride	4.55	84	1550	0.237	ug/l # 85
19) trans-1,2-Dichloroethene	5.05	96	3145	0.531	ug/l # 72
36) 1,2-Dichloroethane	8.13	62	2373	0.293	ug/l # 76
37) Trichloroethene	8.84	130	2832	0.430	ug/l 95
38) Methylcyclohexane	9.08	83	2137	0.220	ug/l 97
40) Dibromomethane	9.21	93	1287	0.334	ug/l 78
45) 1,4-Dioxane	9.19	88	176	3.342	ug/l # 30
47) n-amyl Acetate	12.07	43	2578	0.373	ug/l # 83
48) t-1,3-Dichloropropene	10.38	75	2254	0.268	ug/l 93
54) 1,2-Dibromoethane	11.01	107	1164	0.219	ug/l 88
55) 2-Chloroethyl vinyl ether	9.70	63	992	0.308	ug/l # 74
56) Bromoform	12.13	173	890	0.208	ug/l # 53
58) 4-Methyl-2-Pentanone	9.99	43	2453	0.565	ug/l # 90
59) 2-Hexanone	10.76	43	4923	1.724	ug/l # 89
61) Tetrachloroethene	10.63	164	2514	0.438	ug/l 96
62) Toluene	10.16	91	5891	0.233	ug/l 97
64) Chlorobenzene	11.44	112	5987	0.386	ug/l # 77
66) Ethyl Benzene	11.51	91	6184	0.237	ug/l 97
67) m/p-Xylenes	11.62	106	2607	0.260	ug/l # 1
71) 1,1,2,2-Tetrachloroethane	12.51	83	1530	0.254	ug/l 94
72) 1,2,3-Trichloropropane	12.56	75	2412	0.508	ug/l 1
73) Bromobenzene	12.53	156	3182	0.493	ug/l 85
74) n-propylbenzene	12.59	91	8542	0.287	ug/l 100
75) 2-Chlorotoluene	12.67	91	5983	0.341	ug/l 97
76) 1,3,5-Trimethylbenzene	12.73	105	4852	0.230	ug/l 100
78) 4-Chlorotoluene	12.77	91	7750	0.445	ug/l 99

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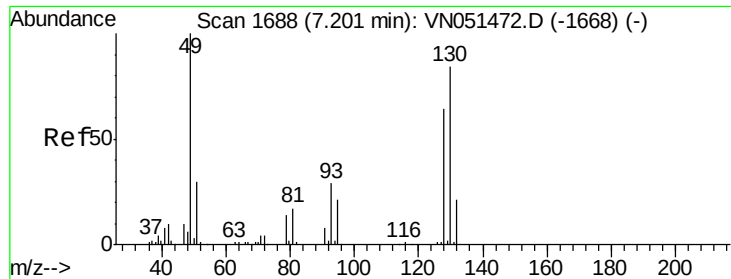
Instrument :
 MSVOA_N
 ClientSampleId :
 I.BLK

Quant Time: Sep 26 02:07:31 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N092518W.M
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

79) tert-butylbenzene	12.99	119	4081	0.222	ug/l	97
80) 1,2,4-Trimethylbenzene	13.04	105	4739	0.223	ug/l	96
81) sec-Butylbenzene	13.17	105	5471	0.216	ug/l	90
82) p-Isopropyltoluene	13.29	119	5321	0.244	ug/l	92
83) 1,3-Dichlorobenzene	13.28	146	7532	0.666	ug/l	90
84) 1,4-Dichlorobenzene	13.36	146	7832	0.737	ug/l	98
85) n-Butylbenzene	13.62	91	6398	0.357	ug/l	98
86) Hexachloroethane	13.88	117	1116	0.255	ug/l	77
87) 1,2-Dichlorobenzene	13.65	146	7149	0.667	ug/l	97
88) 1,2-Dibromo-3-Chloropropan	14.27	75	954	1.073	ug/l	95
89) 1,2,4-Trichlorobenzene	14.91	180	10676	1.999	ug/l	94
90) Hexachlorobutadiene	15.01	225	7294	1.762	ug/l	90
91) Naphthalene	15.14	128	23371	2.319	ug/l	96
92) 1,2,3-Trichlorobenzene	15.32	180	13987	2.594	ug/l	95

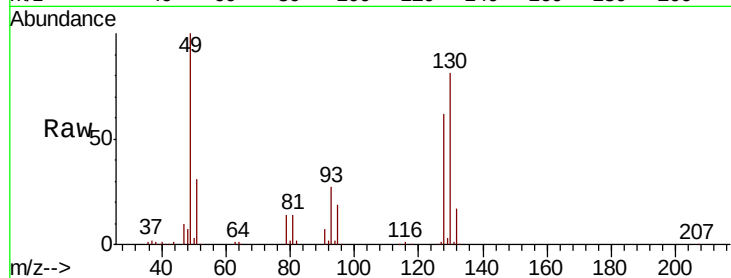
(#) = qualifier out of range (m) = manual integration (+) = signals summed



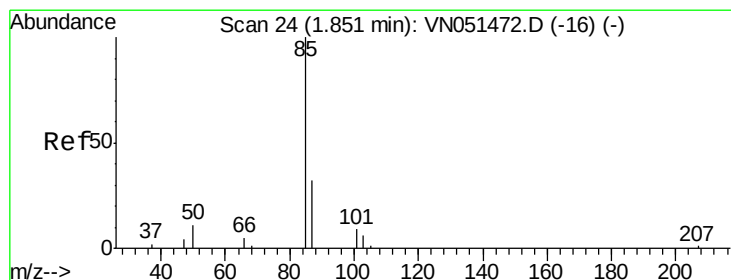
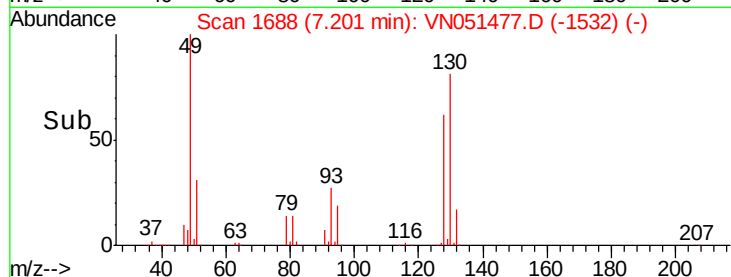
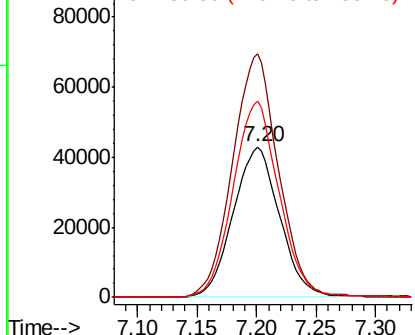
#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.20 min Scan# 1688
Delta R.T. 0.00 min
Lab File: VN051477.D
Acq: 25 Sep 2018 11:13

Instrument :
MSVOA_N
ClientSampleId :
I.BLK

Tot Ion:128 Resp: 115925
Ion Ratio Lower Upper
128 100
49 159.3 0.0 403.3
130 129.6 0.0 326.0

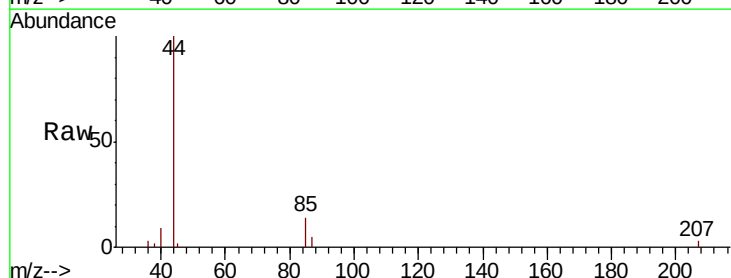


Abundance Ion 128.00 (127.70 to 128.70): V
Ion 49.00 (48.70 to 49.70): VNO
Ion 130.00 (129.70 to 130.70): V

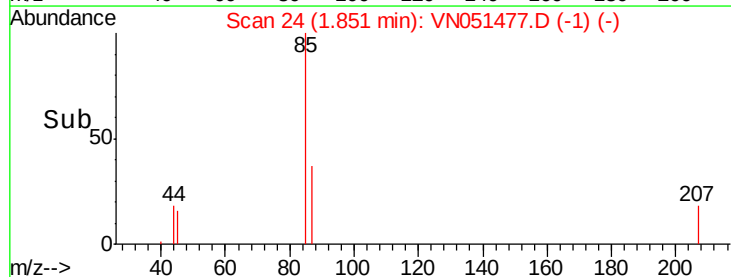
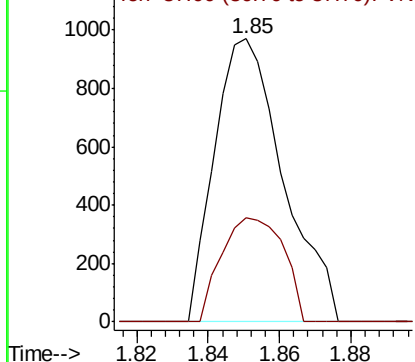


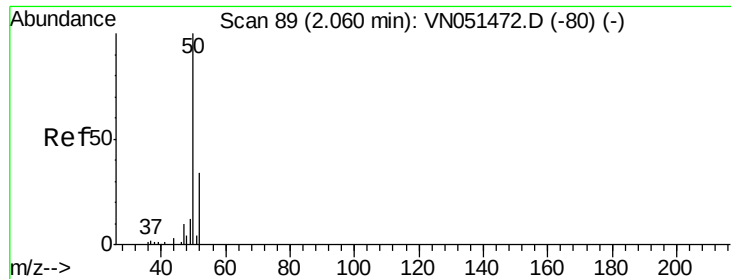
#2
Dichlorodifluoromethane
Concen: 0.261 ug/l
RT: 1.85 min Scan# 24
Delta R.T. 0.00 min
Lab File: VN051477.D
Acq: 25 Sep 2018 11:13

Tgt Ion: 85 Resp: 1294
Ion Ratio Lower Upper
85 100
87 36.7 16.3 48.8



Abundance Ion 85.00 (84.70 to 85.70): VNO
Ion 87.00 (86.70 to 87.70): VNO





#3

Chloromethane

Concen: 0.253 ug/l

RT: 2.06 min Scan# 88

Delta R.T. -0.00 min

Lab File: VN051477.D

Acq: 25 Sep 2018 11:13

Instrument :

MSVOA_N

ClientSampled :

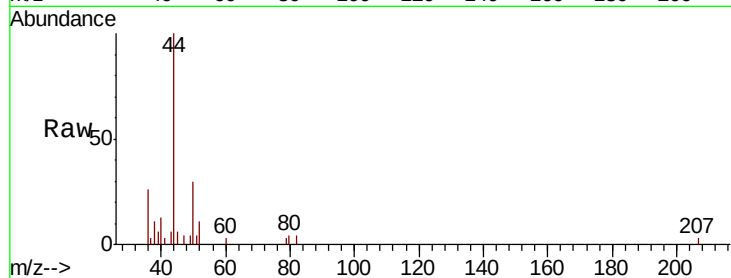
I.BLK

Tot Ion: 50 Resp: 2164

Ion Ratio Lower Upper

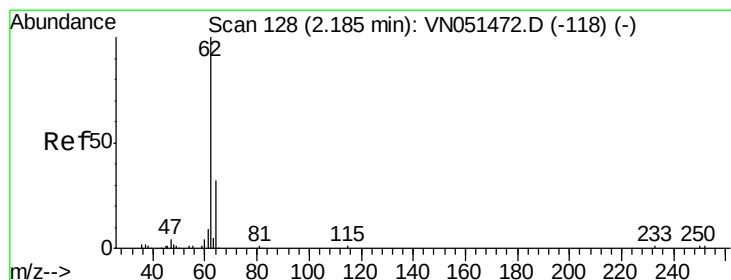
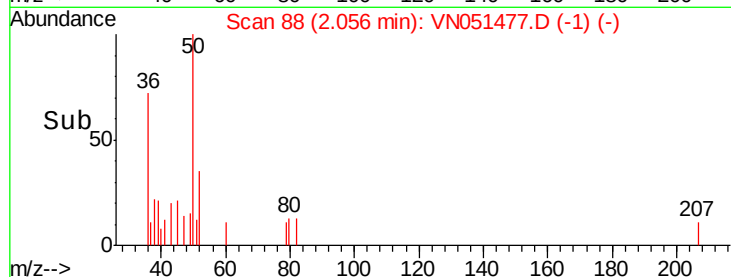
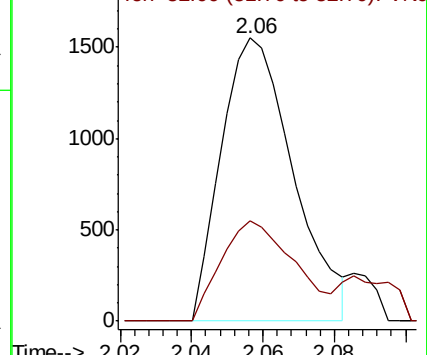
50 100

52 35.5 27.2 40.8



Abundance Ion 50.00 (49.70 to 50.70): VN0

Ion 52.00 (51.70 to 52.70): VN0



#4

Vinyl Chloride

Concen: 0.309 ug/l

RT: 2.19 min Scan# 128

Delta R.T. 0.00 min

Lab File: VN051477.D

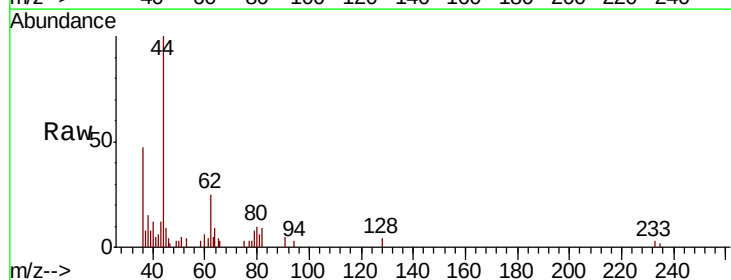
Acq: 25 Sep 2018 11:13

Tgt Ion: 62 Resp: 2816

Ion Ratio Lower Upper

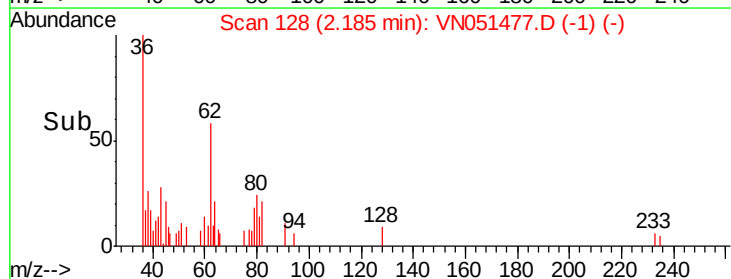
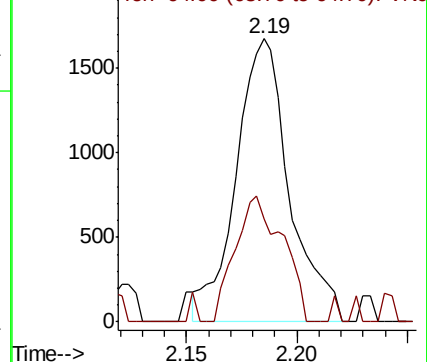
62 100

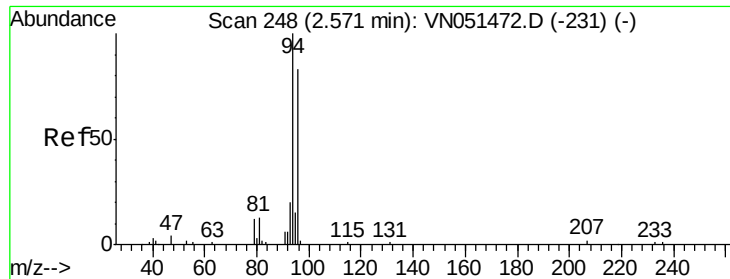
64 36.6 25.4 38.2



Abundance Ion 62.00 (61.70 to 62.70): VN0

Ion 64.00 (63.70 to 64.70): VN0





#5

Bromomethane

Concen: 0.755 ug/l

RT: 2.57 min Scan# 247

Delta R.T. -0.00 min

Lab File: VN051477.D

Acq: 25 Sep 2018 11:13

Instrument :

MSVOA_N

ClientSampled :

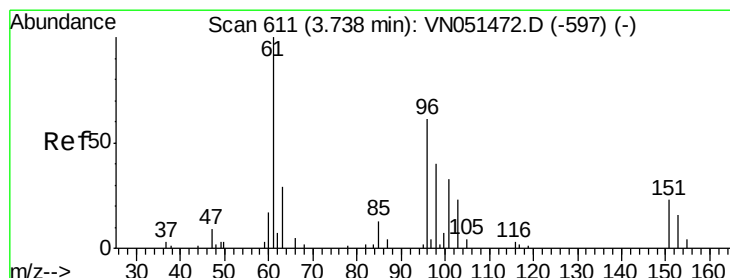
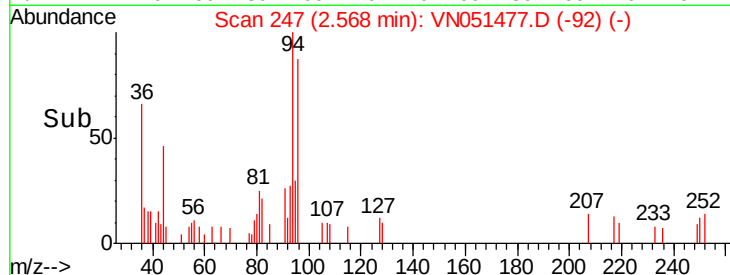
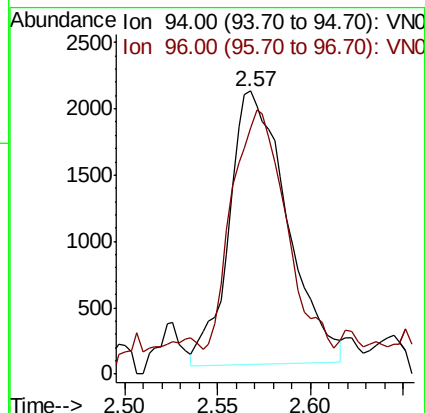
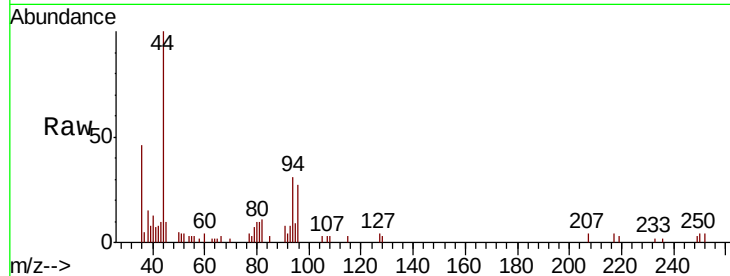
I.BLK

Tot Ion: 94 Resp: 4497

Ion Ratio Lower Upper

94 100

96 80.8 66.4 99.6



#10

1,1-Dichloroethene

Concen: 0.341 ug/l

RT: 3.74 min Scan# 611

Delta R.T. 0.00 min

Lab File: VN051477.D

Acq: 25 Sep 2018 11:13

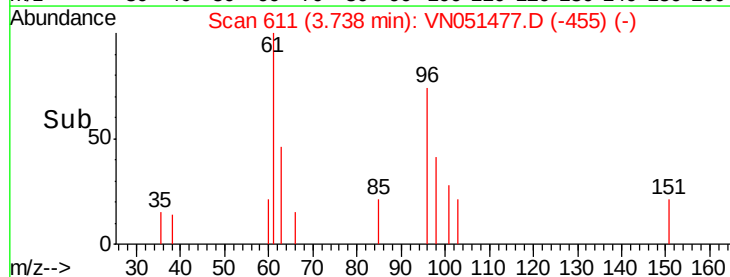
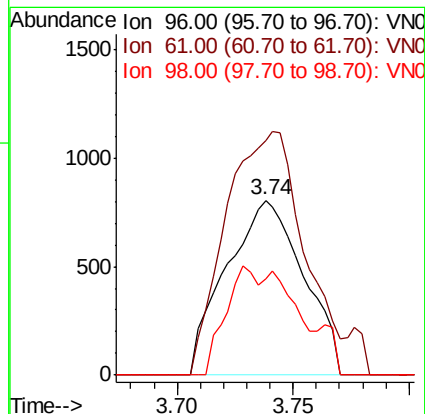
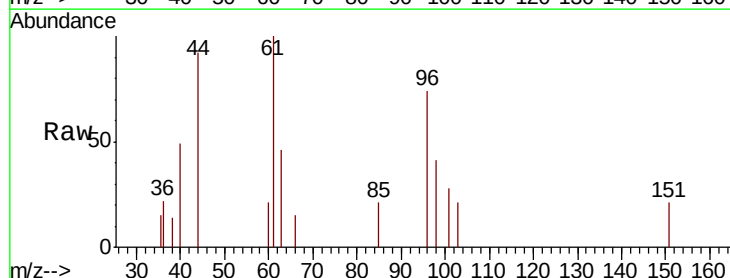
Tgt Ion: 96 Resp: 1865

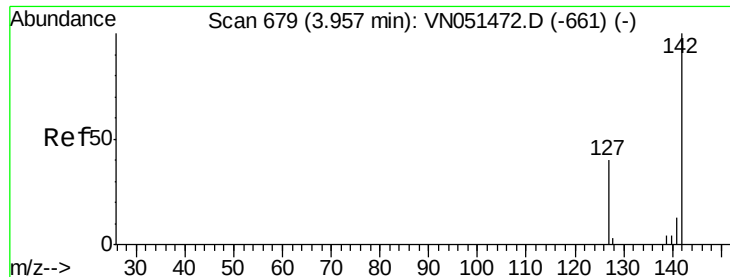
Ion Ratio Lower Upper

96 100

61 134.5 133.0 199.6

98 55.4 52.6 78.8

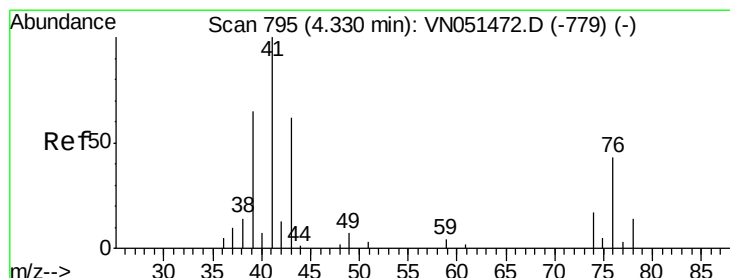
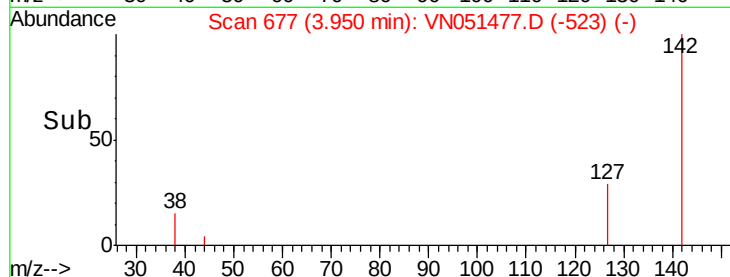
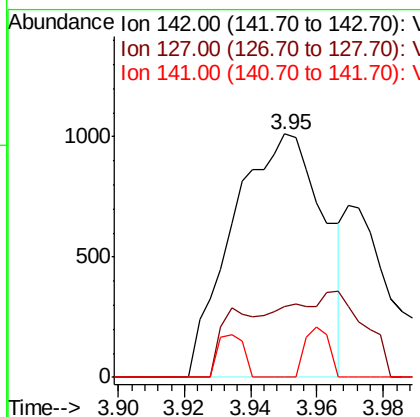
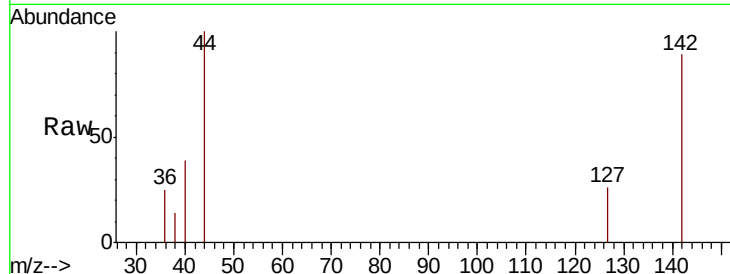




#11
Methyl Iodide
Concen: 0.239 ug/l
RT: 3.95 min Scan# 677
Delta R.T. -0.01 min
Lab File: VN051477.D
Acq: 25 Sep 2018 11:13

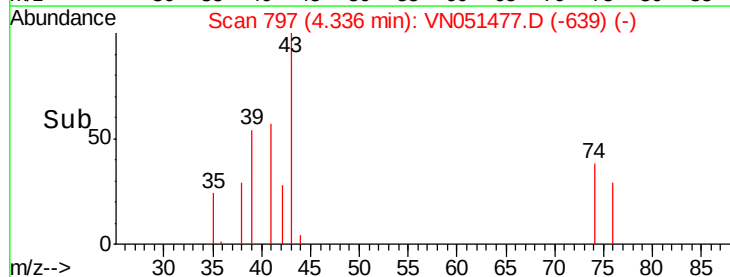
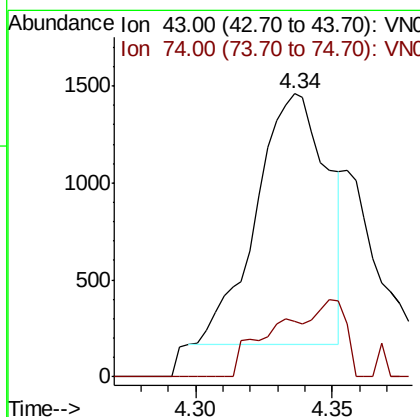
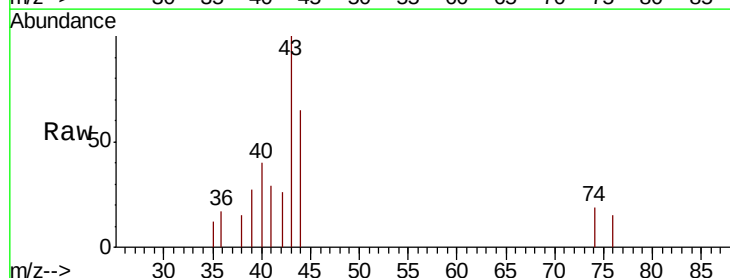
Instrument :
MSVOA_N
ClientSampled :
I.BLK

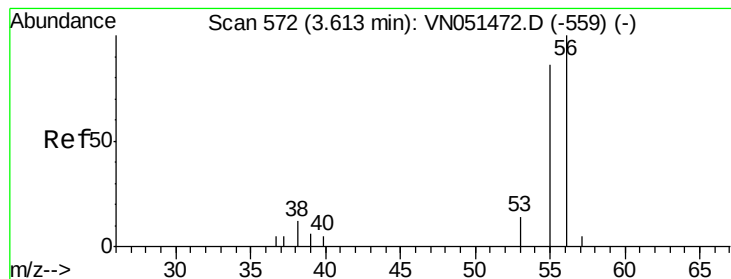
Tot Ion:142 Resp: 1929
Ion Ratio Lower Upper
142 100
127 17.0 19.7 59.0#
141 0.0 6.3 18.9#



#12
Methyl Acetate
Concen: 0.488 ug/l
RT: 4.34 min Scan# 797
Delta R.T. 0.01 min
Lab File: VN051477.D
Acq: 25 Sep 2018 11:13

Tgt Ion: 43 Resp: 2348
Ion Ratio Lower Upper
43 100
74 10.6 21.8 32.6#





#13

Acrolein

Concen: 0.978 ug/l

RT: 3.61 min Scan# 570

Delta R.T. -0.01 min

Lab File: VN051477.D

Acq: 25 Sep 2018 11:13

Instrument :

MSVOA_N

ClientSampleId :

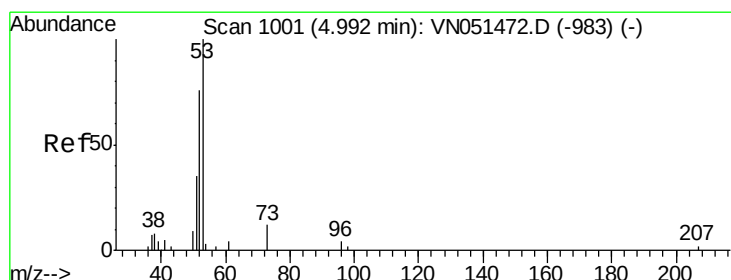
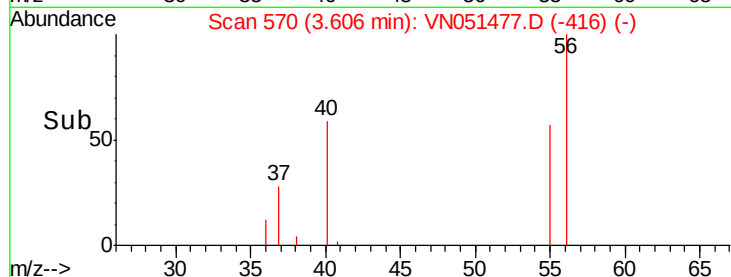
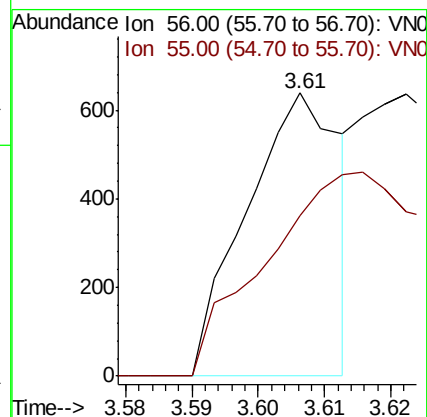
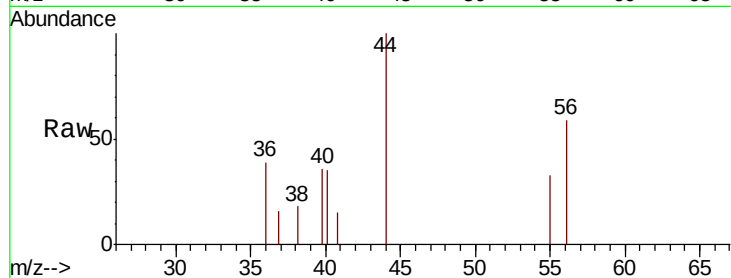
I.BLK

Tot Ion: 56 Resp: 627

Ion Ratio Lower Upper

56 100

55 135.2 64.0 96.0#



#14

Acrylonitrile

Concen: 1.566 ug/l

RT: 5.01 min Scan# 1007

Delta R.T. 0.02 min

Lab File: VN051477.D

Acq: 25 Sep 2018 11:13

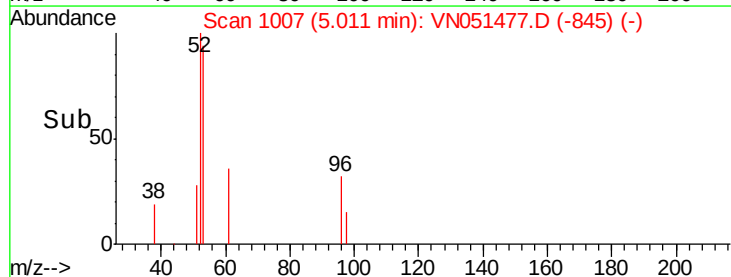
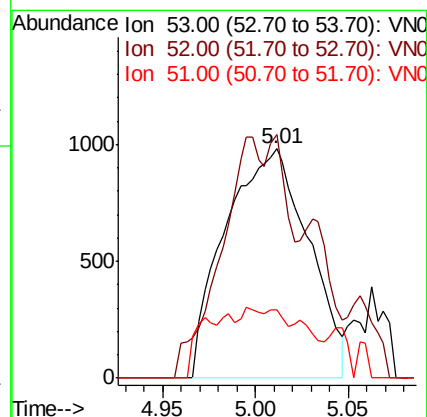
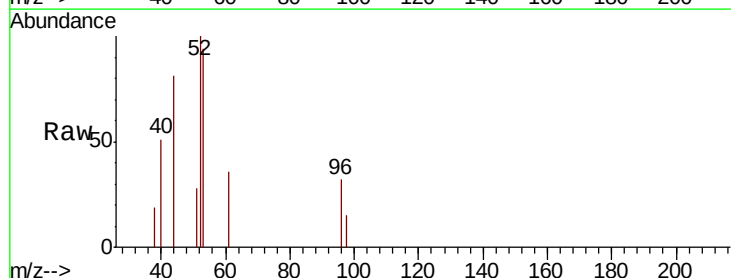
Tgt Ion: 53 Resp: 3058

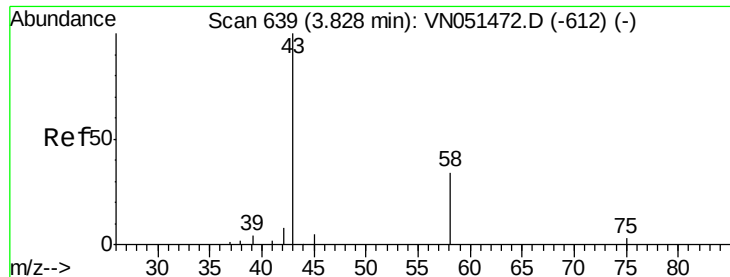
Ion Ratio Lower Upper

53 100

52 40.1 18.3 54.8

51 2.4 19.7 59.1#





#15

Acetone

Concen: 0.684 ug/l

RT: 3.83 min Scan# 639

Delta R.T. 0.00 min

Lab File: VN051477.D

Acq: 25 Sep 2018 11:13

Instrument :

MSVOA_N

ClientSampled :

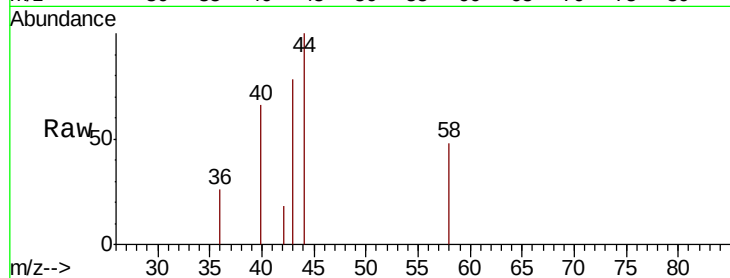
I.BLK

Tot Ion: 58 Resp: 329

Ion Ratio Lower Upper

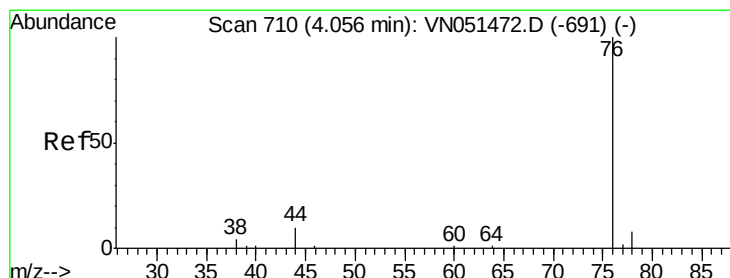
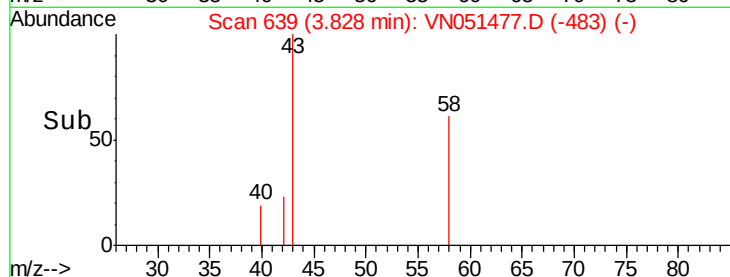
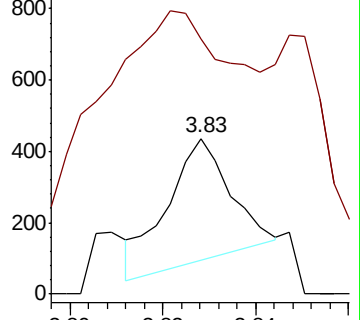
58 100

43 26.1 232.2 348.2#



Abundance Ion 58.00 (57.70 to 58.70): VN0

Ion 43.00 (42.70 to 43.70): VN0



#16

Carbon Disulfide

Concen: 1.677 ug/l

RT: 4.05 min Scan# 709

Delta R.T. -0.00 min

Lab File: VN051477.D

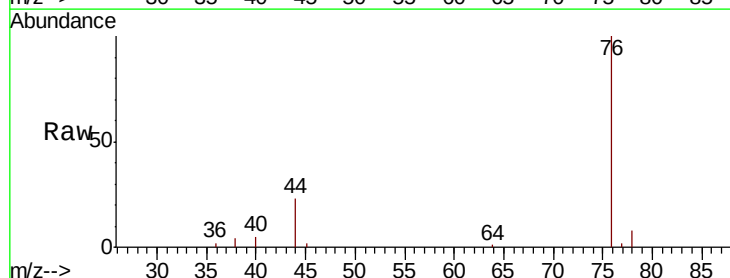
Acq: 25 Sep 2018 11:13

Tgt Ion: 76 Resp: 29089

Ion Ratio Lower Upper

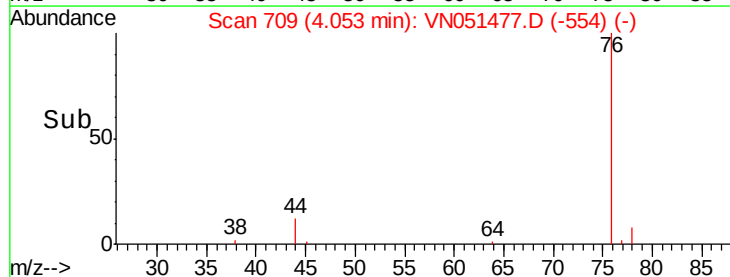
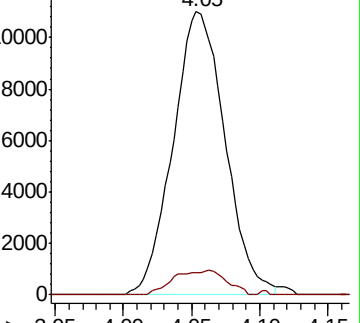
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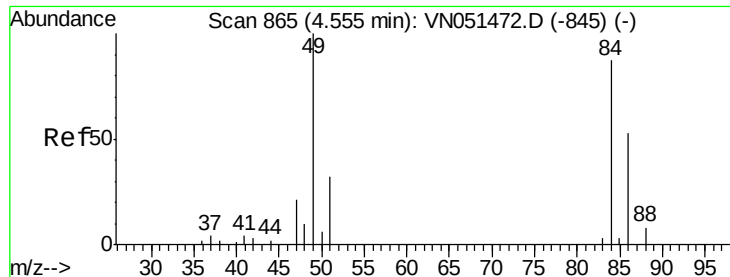
78 7.8 6.7 10.1



Abundance Ion 76.00 (75.70 to 76.70): VN0

Ion 78.00 (77.70 to 78.70): VN0

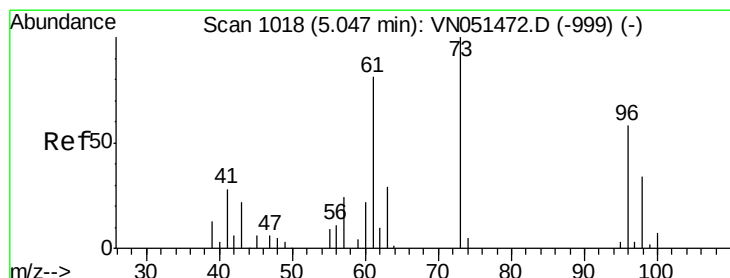
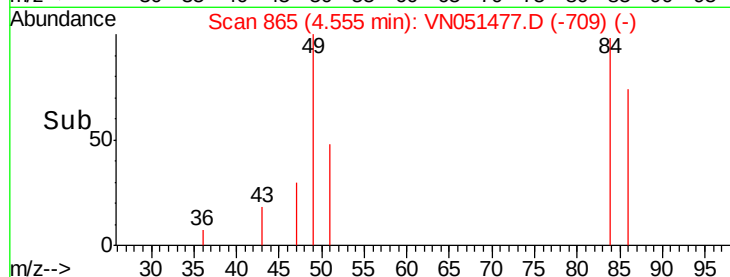
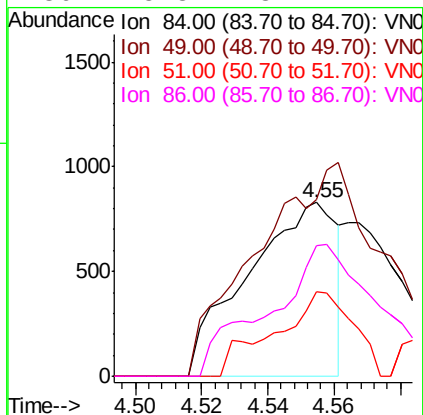
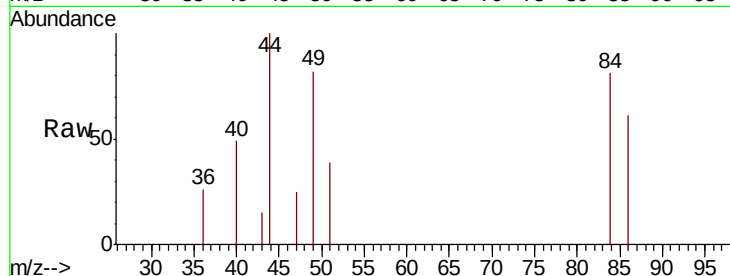




#18
Methvlene Chloride
Concen: 0.237 ug/l
RT: 4.55 min Scan# 865
Delta R.T. 0.00 min
Lab File: VN051477.D
Acq: 25 Sep 2018 11:13

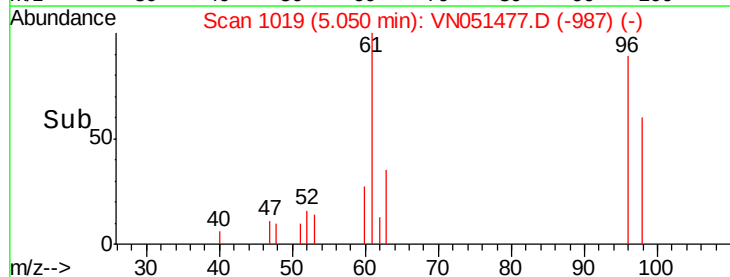
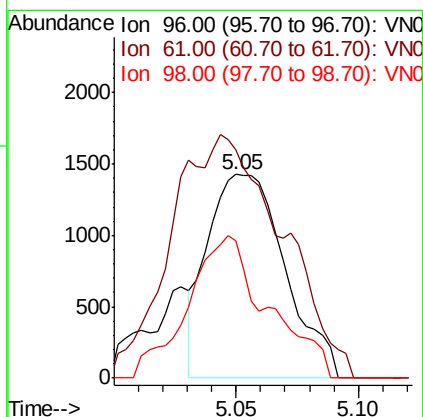
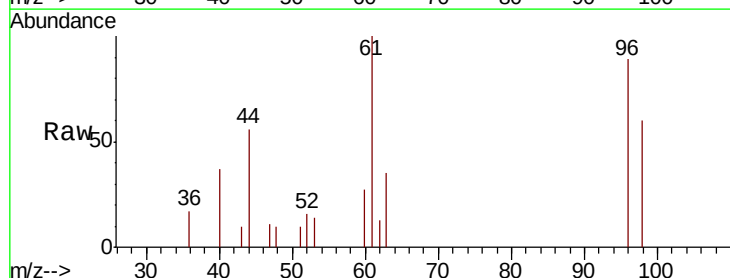
Instrument :
MSVOA_N
ClientSampled :
I.BLK

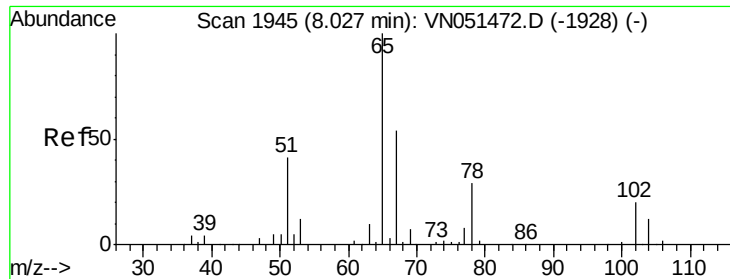
Tot Ion: 84 Resp: 1550
Ion Ratio Lower Upper
84 100
49 101.6 91.6 137.4
51 48.6 29.8 44.6#
86 75.3 48.2 72.4#



#19
trans-1,2-Dichloroethene
Concen: 0.531 ug/l
RT: 5.05 min Scan# 1019
Delta R.T. 0.00 min
Lab File: VN051477.D
Acq: 25 Sep 2018 11:13

Tgt Ion: 96 Resp: 3145
Ion Ratio Lower Upper
96 100
61 97.6 112.3 168.5#
98 67.5 47.1 70.7

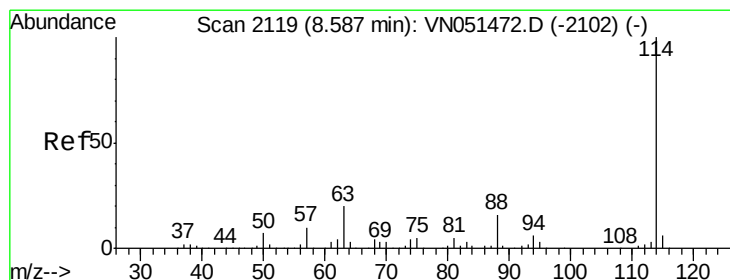
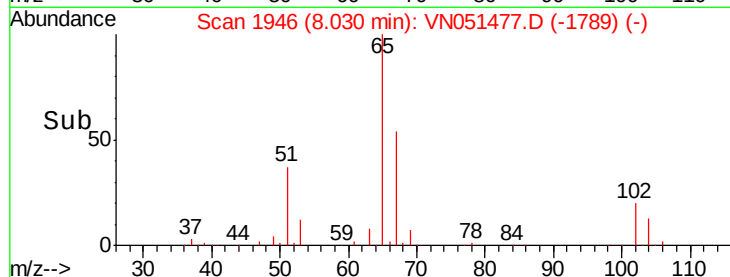
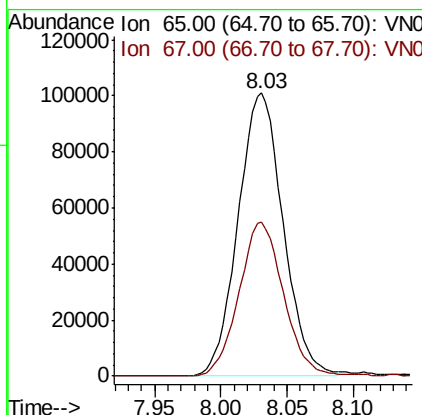
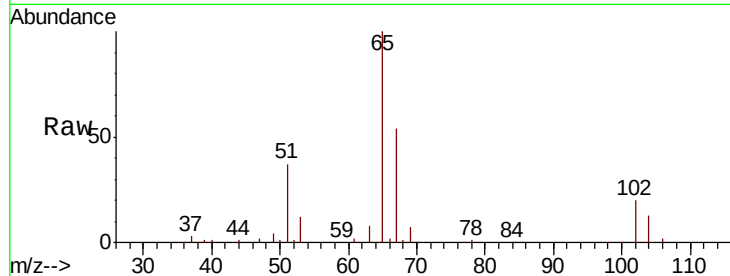




#27
 1,2-Dichloroethane-d4
 Concen: 29.865 ug/l
 RT: 8.03 min Scan# 1946
 Delta R.T. 0.00 min
 Lab File: VN051477.D
 Acq: 25 Sep 2018 11:13

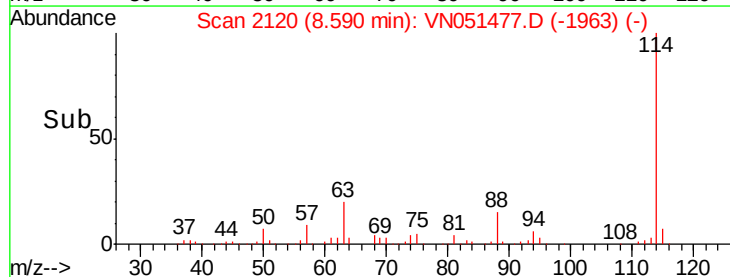
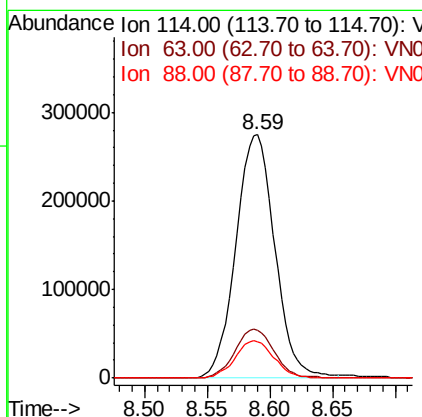
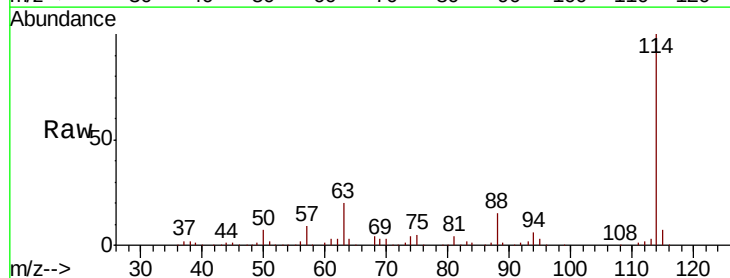
Instrument :
 MSVOA_N
 ClientSampled :
 I.BLK

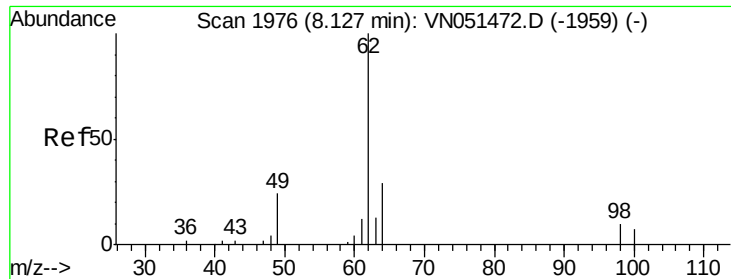
Tot Ion: 65 Resp: 238276
 Ion Ratio Lower Upper
 65 100
 67 53.8 41.8 62.8



#28
 1,4-Difluorobenzene
 Concen: 30.000 ug/l
 RT: 8.59 min Scan# 2120
 Delta R.T. 0.00 min
 Lab File: VN051477.D
 Acq: 25 Sep 2018 11:13

Tgt Ion: 114 Resp: 594802
 Ion Ratio Lower Upper
 114 100
 63 20.3 16.2 24.2
 88 15.5 12.2 18.4

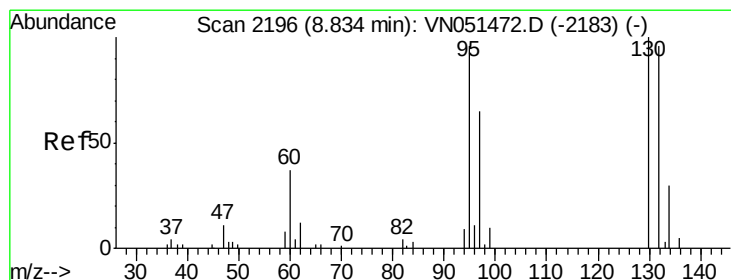
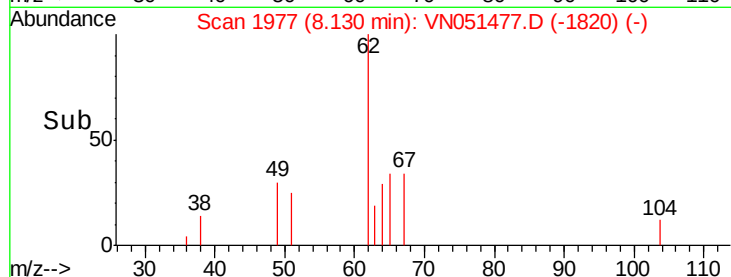
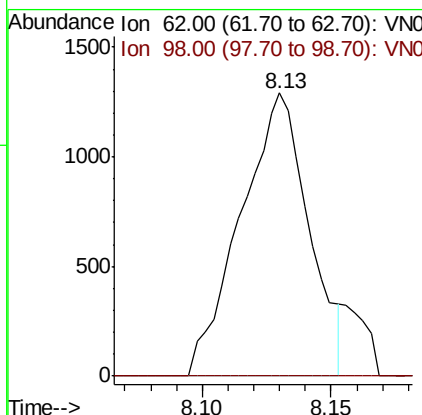
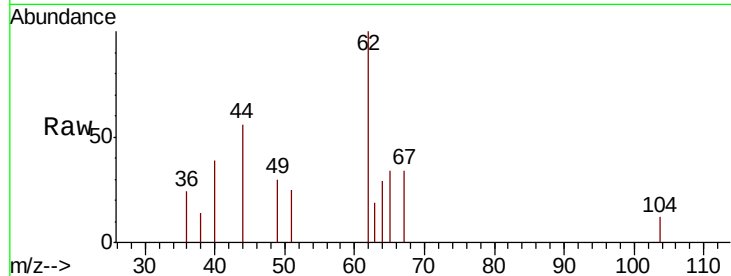




#36
 1,2-Dichloroethane
 Concen: 0.293 ug/l
 RT: 8.13 min Scan# 1977
 Delta R.T. 0.00 min
 Lab File: VN051477.D
 Acq: 25 Sep 2018 11:13

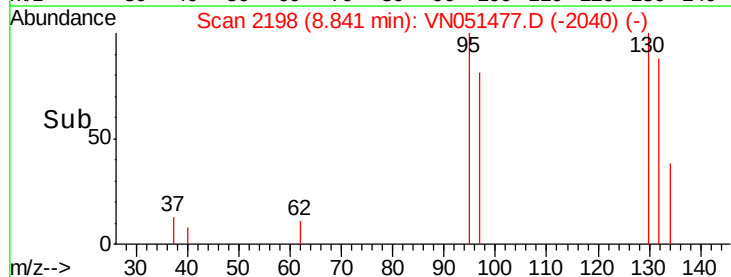
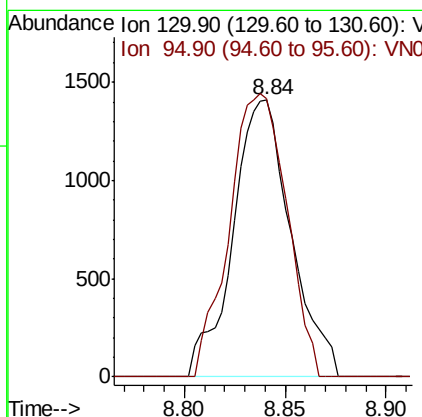
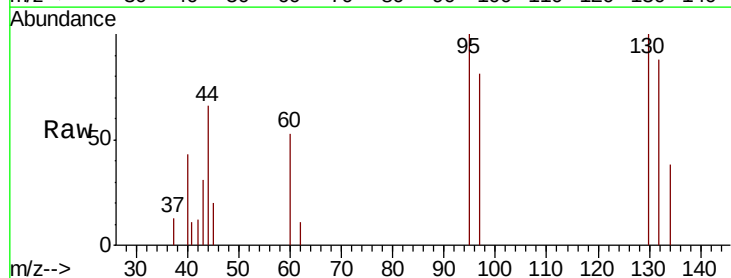
Instrument :
 MSVOA_N
 ClientSampled :
 I.BLK

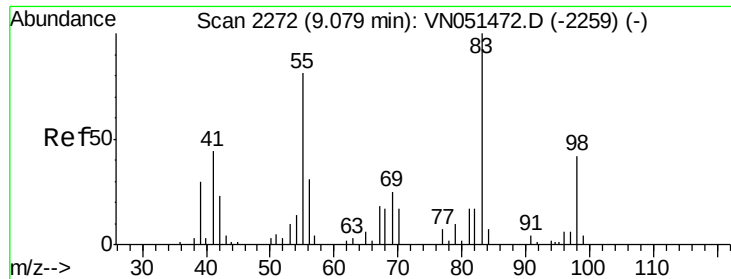
Tot Ion: 62 Resp: 2373
 Ion Ratio Lower Upper
 62 100
 98 0.0 6.9 10.3#



#37
 Trichloroethene
 Concen: 0.430 ug/l
 RT: 8.84 min Scan# 2198
 Delta R.T. 0.01 min
 Lab File: VN051477.D
 Acq: 25 Sep 2018 11:13

Tgt Ion:130 Resp: 2832
 Ion Ratio Lower Upper
 130 100
 95 100.1 76.4 114.6

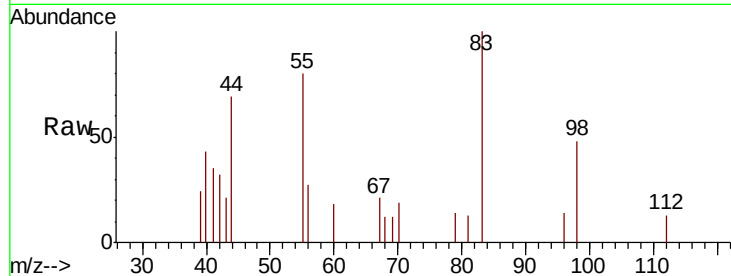




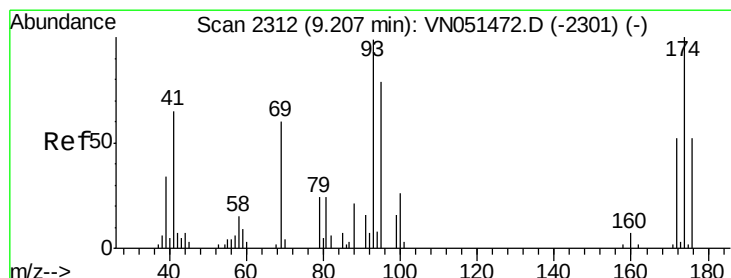
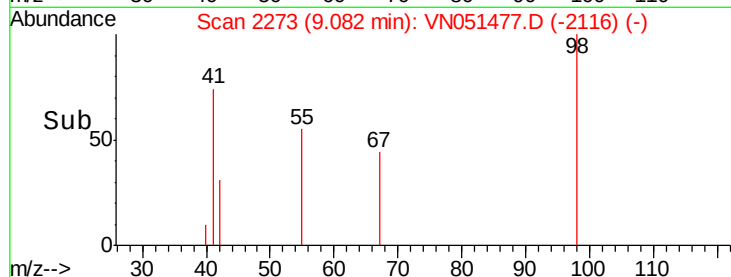
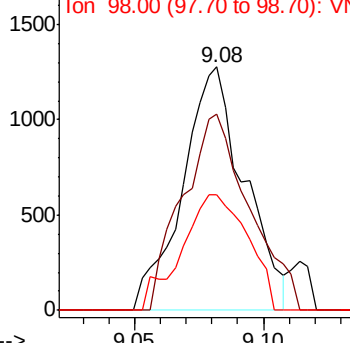
#38
Methylvlcyclohexane
Concen: 0.220 ug/l
RT: 9.08 min Scan# 2273
Delta R.T. 0.00 min
Lab File: VN051477.D
Acq: 25 Sep 2018 11:13

Instrument :
MSVOA_N
ClientSampleId :
I.BLK

Tot Ion: 83 Resp: 2137
Ion Ratio Lower Upper
83 100
55 87.1 43.0 129.2
98 46.3 21.3 63.7

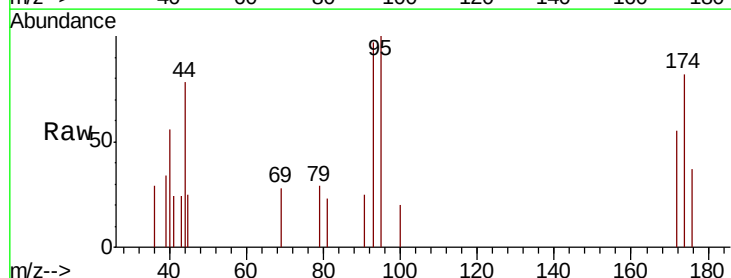


Abundance Ion 83.00 (82.70 to 83.70): VN0
Ion 55.00 (54.70 to 55.70): VN0
Ion 98.00 (97.70 to 98.70): VN0

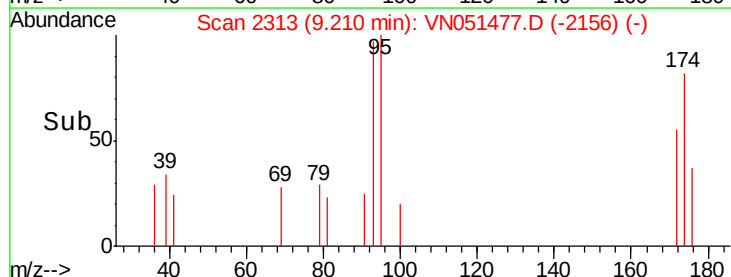
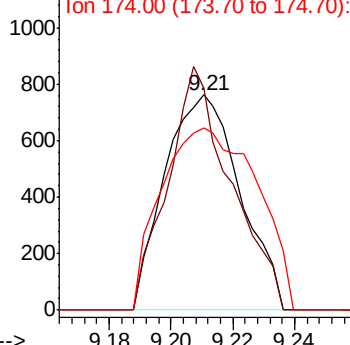


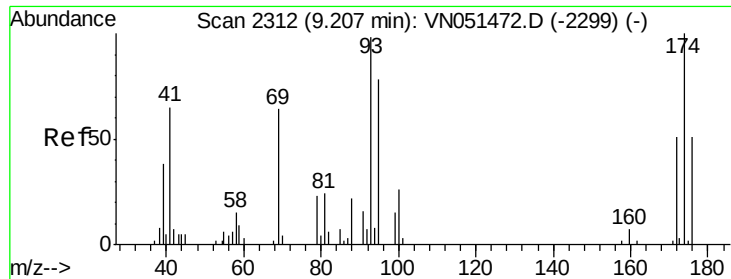
#40
Dibromomethane
Concen: 0.334 ug/l
RT: 9.21 min Scan# 2313
Delta R.T. 0.00 min
Lab File: VN051477.D
Acq: 25 Sep 2018 11:13

Tgt Ion: 93 Resp: 1287
Ion Ratio Lower Upper
93 100
95 94.1 0.0 162.0
174 78.5 0.0 214.0



Abundance Ion 93.00 (92.70 to 93.70): VN0
Ion 95.00 (94.70 to 95.70): VN0
Ion 174.00 (173.70 to 174.70): V

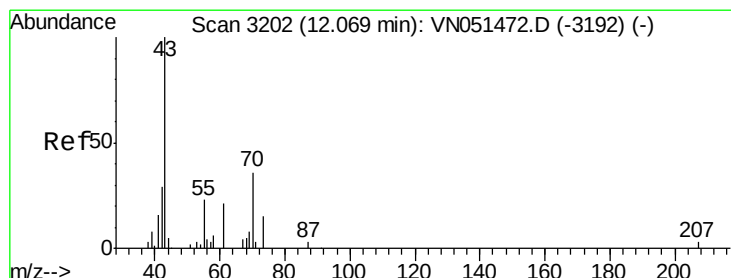
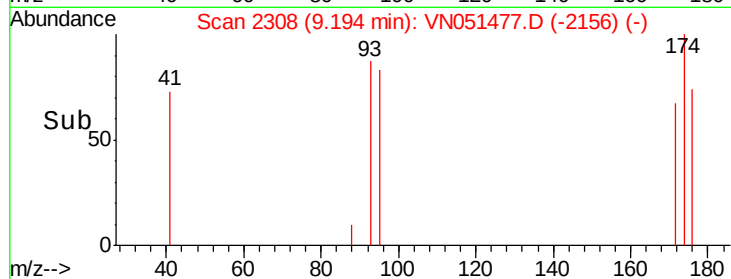
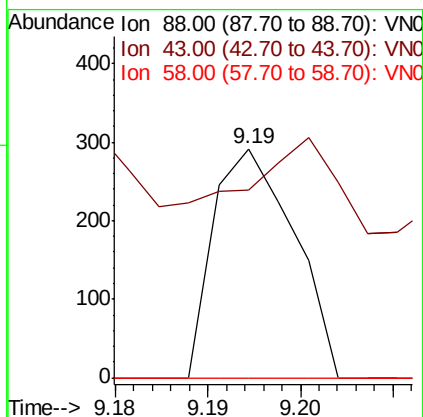
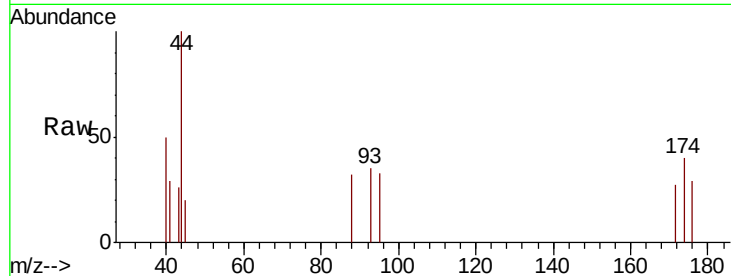




#45
 1,4-Dioxane
 Concen: 3.342 ug/l
 RT: 9.19 min Scan# 2308
 Delta R.T. -0.01 min
 Lab File: VN051477.D
 Acq: 25 Sep 2018 11:13

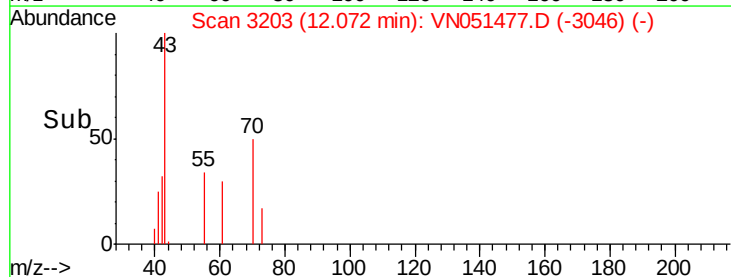
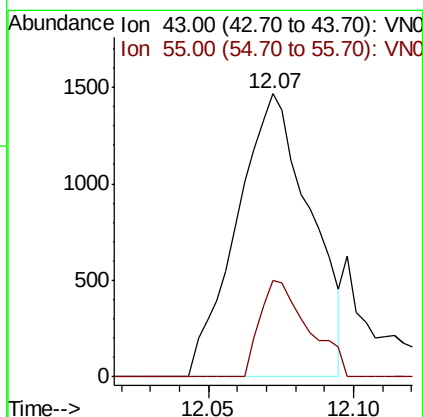
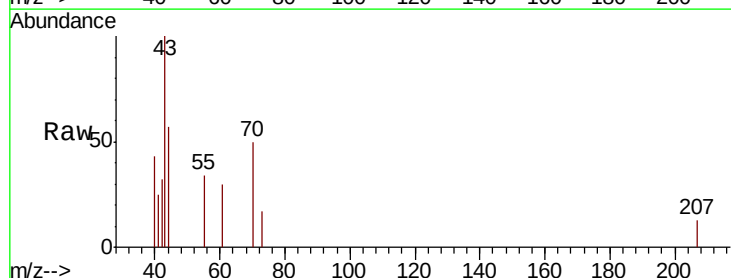
Instrument :
 MSVOA_N
 ClientSampled :
 I.BLK

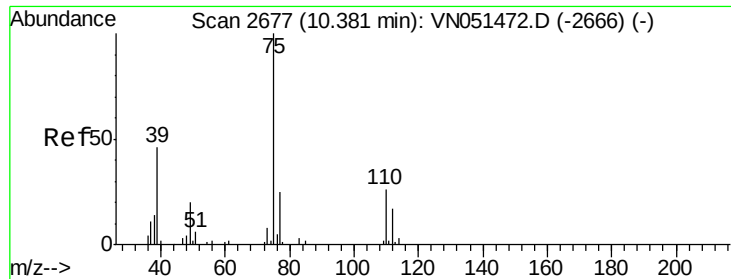
Tot Ion: 88 Resp: 176
 Ion Ratio Lower Upper
 88 100
 43 41.5 26.2 39.2#
 58 0.0 65.6 98.4#



#47
 n-amyl Acetate
 Concen: 0.373 ug/l
 RT: 12.07 min Scan# 3203
 Delta R.T. 0.00 min
 Lab File: VN051477.D
 Acq: 25 Sep 2018 11:13

Tgt Ion: 43 Resp: 2578
 Ion Ratio Lower Upper
 43 100
 55 22.5 12.2 18.4#





#48

t-1,3-Dichloropropene

Concen: 0.268 ug/l

RT: 10.38 min Scan# 2678

Delta R.T. 0.00 min

Lab File: VN051477.D

Acq: 25 Sep 2018 11:13

Instrument :

MSVOA_N

ClientSampled :

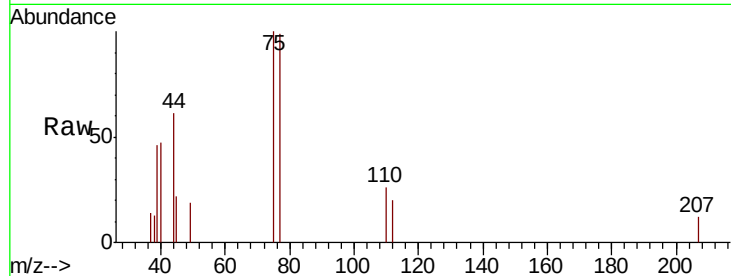
I.BLK

Tot Ion: 75 Resp: 2254

Ion Ratio Lower Upper

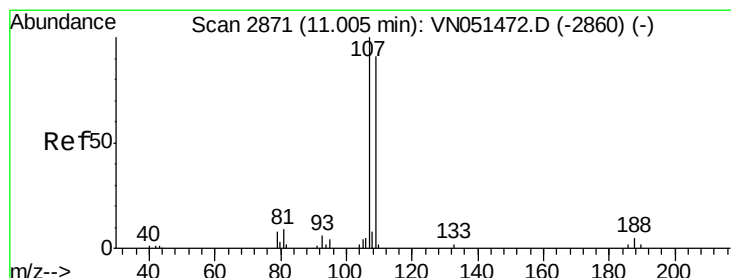
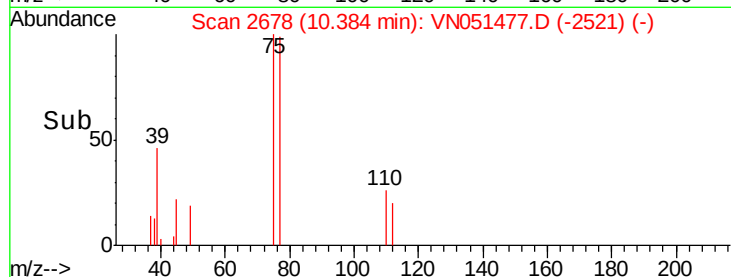
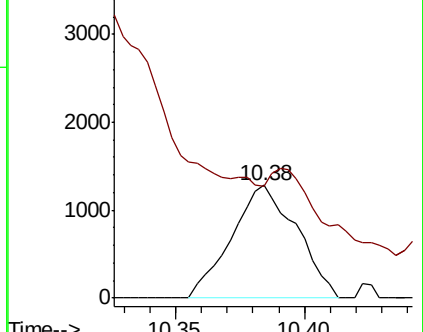
75 100

77 34.7 24.6 37.0



Abundance Ion 75.00 (74.70 to 75.70): VN051477.D (-2521) (-)

Ion 77.00 (76.70 to 77.70): VN051477.D (-2521) (-)



#54

1,2-Dibromoethane

Concen: 0.219 ug/l

RT: 11.01 min Scan# 2873

Delta R.T. 0.01 min

Lab File: VN051477.D

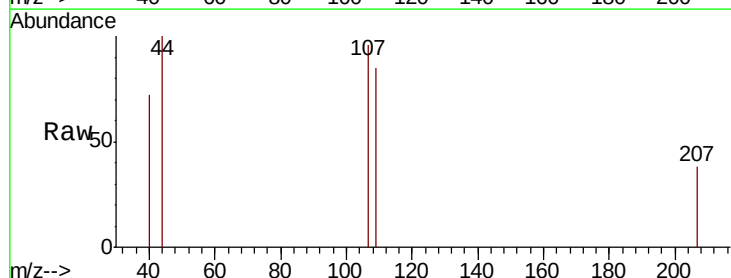
Acq: 25 Sep 2018 11:13

Tgt Ion: 107 Resp: 1164

Ion Ratio Lower Upper

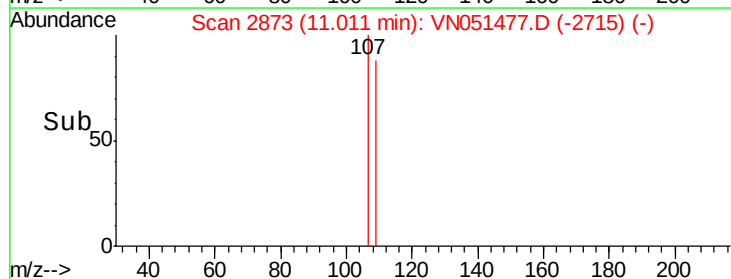
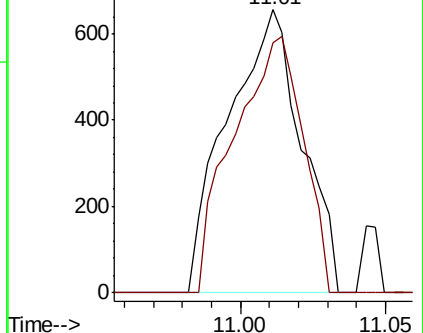
107 100

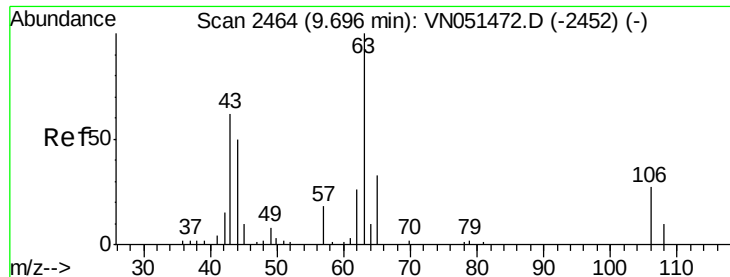
109 84.9 77.4 116.0



Abundance Ion 107.00 (106.70 to 107.70): VN051477.D (-2715) (-)

Ion 109.00 (108.70 to 109.70): VN051477.D (-2715) (-)

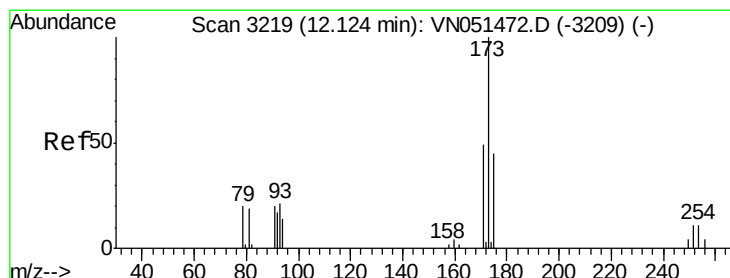
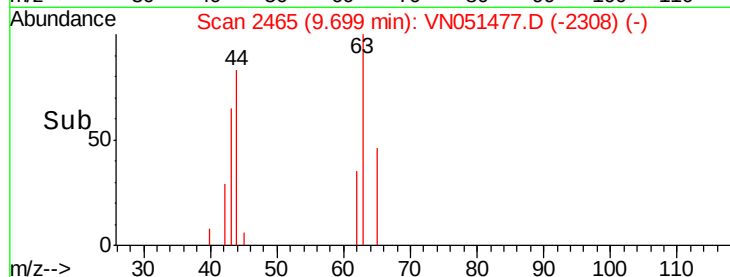
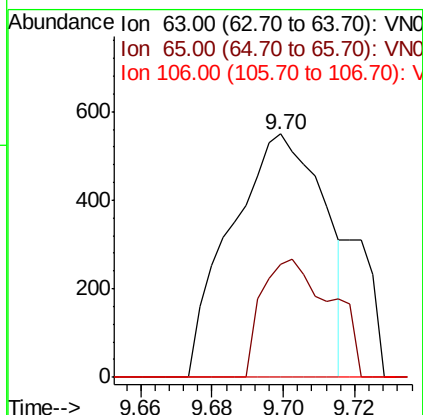
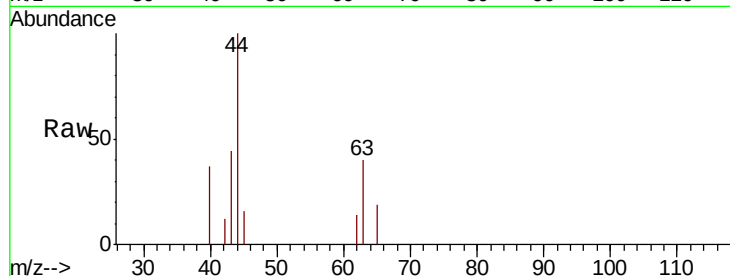




#55
 2-Chloroethyl vinyl ether
 Concen: 0.308 ug/l
 RT: 9.70 min Scan# 2465
 Delta R.T. 0.00 min
 Lab File: VN051477.D
 Acq: 25 Sep 2018 11:13

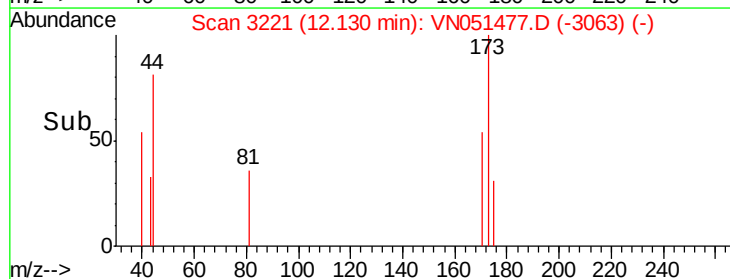
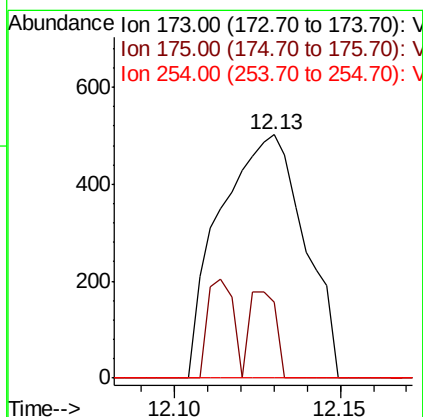
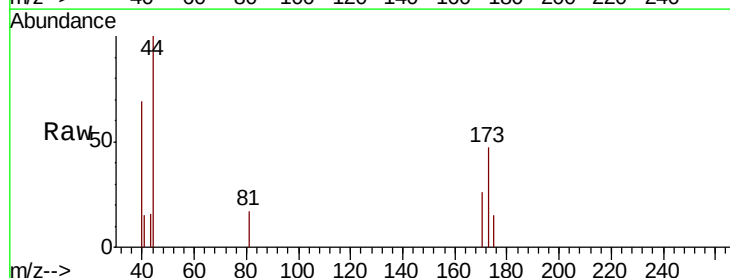
Instrument :
 MSVOA_N
 ClientSampled :
 I.BLK

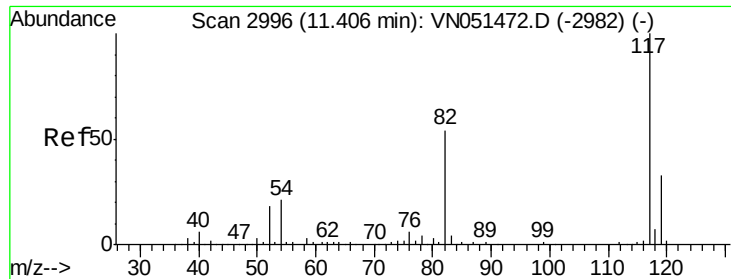
Tot Ion: 63 Resp: 992
 Ion Ratio Lower Upper
 63 100
 65 29.3 25.4 38.0
 106 0.0 21.2 31.8#



#56
 Bromoform
 Concen: 0.208 ug/l
 RT: 12.13 min Scan# 3221
 Delta R.T. 0.01 min
 Lab File: VN051477.D
 Acq: 25 Sep 2018 11:13

Tgt Ion: 173 Resp: 890
 Ion Ratio Lower Upper
 173 100
 175 11.1 35.8 53.8#
 254 0.0 8.6 13.0#

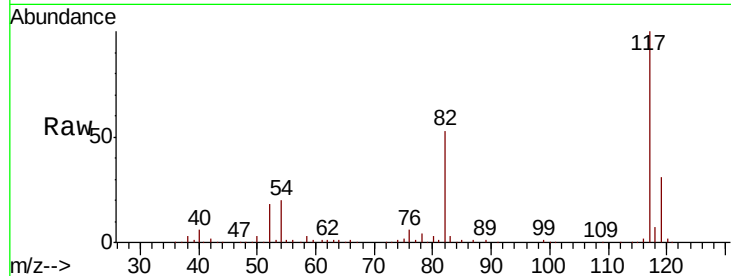




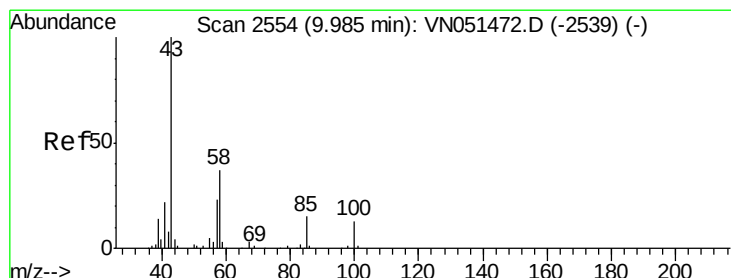
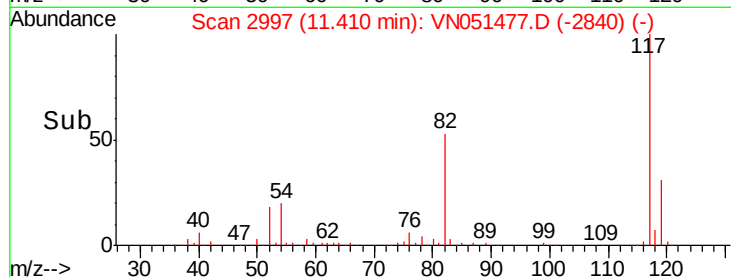
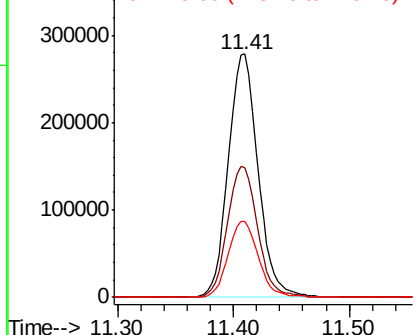
#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.41 min Scan# 2997
Delta R.T. 0.00 min
Lab File: VN051477.D
Acq: 25 Sep 2018 11:13

Instrument :
MSVOA_N
ClientSampled :
I.BLK

Tot Ion:117 Resp: 493807
Ion Ratio Lower Upper
117 100
82 54.6 44.1 66.1
119 31.6 25.8 38.8

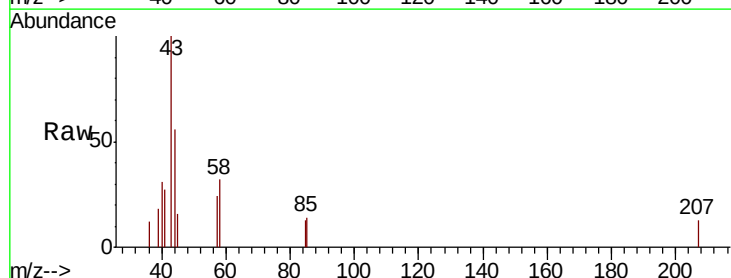


Abundance Ion 117.00 (116.70 to 117.70): V
Ion 82.00 (81.70 to 82.70): VN
Ion 119.00 (118.70 to 119.70): V

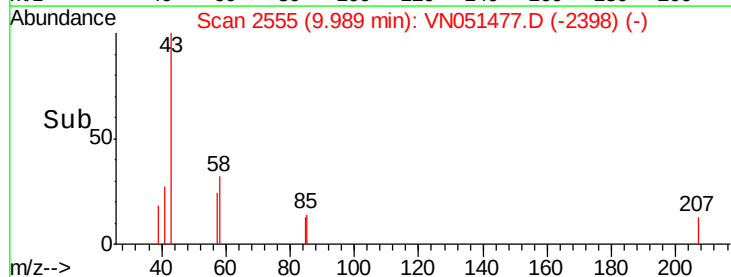
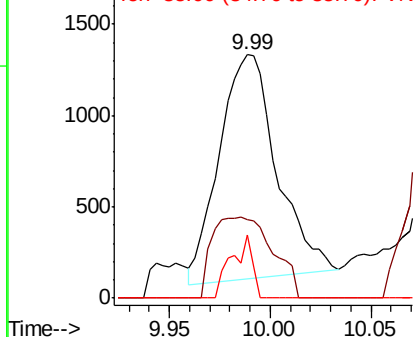


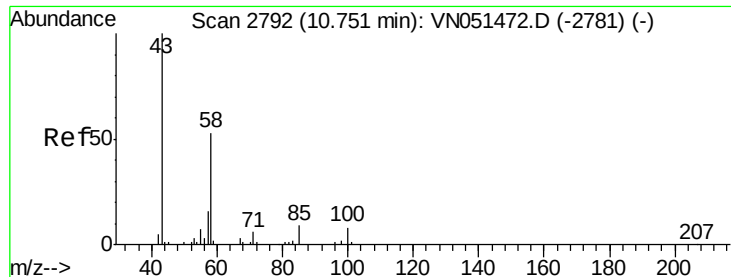
#58
4-Methyl-2-Pentanone
Concen: 0.565 ug/l
RT: 9.99 min Scan# 2555
Delta R.T. 0.00 min
Lab File: VN051477.D
Acq: 25 Sep 2018 11:13

Tgt Ion: 43 Resp: 2453
Ion Ratio Lower Upper
43 100
58 37.7 29.3 43.9
85 4.1 12.6 18.8#



Abundance Ion 43.00 (42.70 to 43.70): VN
Ion 58.00 (57.70 to 58.70): VN
Ion 85.00 (84.70 to 85.70): VN

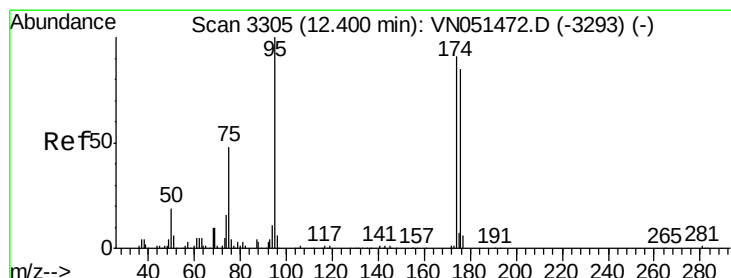
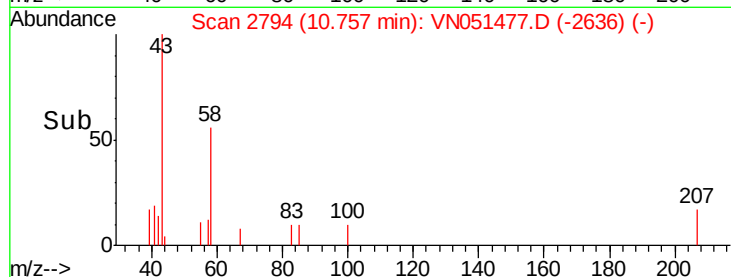
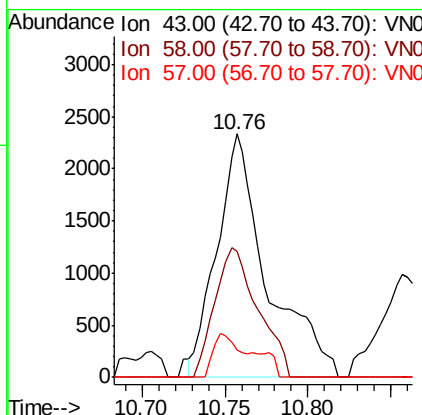
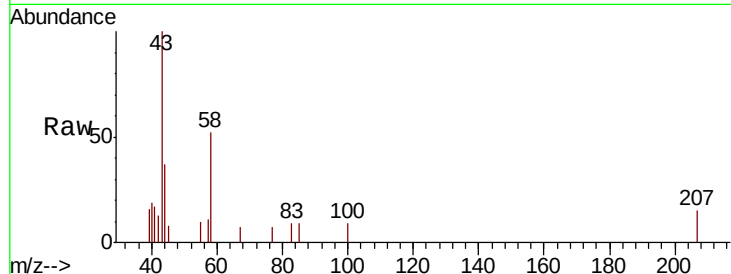




#59
2-Hexanone
Concen: 1.724 ug/l
RT: 10.76 min Scan# 2794
Delta R.T. 0.01 min
Lab File: VN051477.D
Acq: 25 Sep 2018 11:13

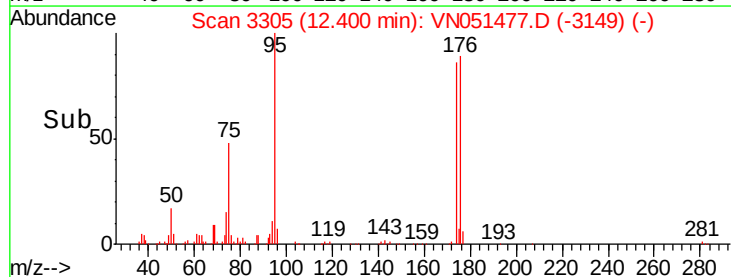
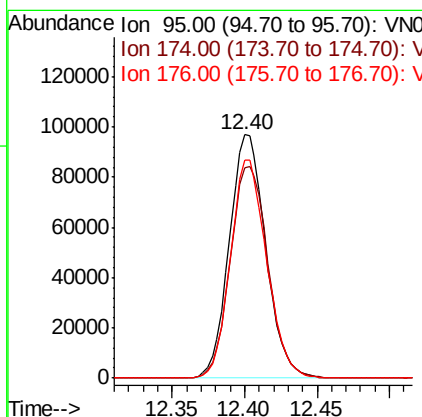
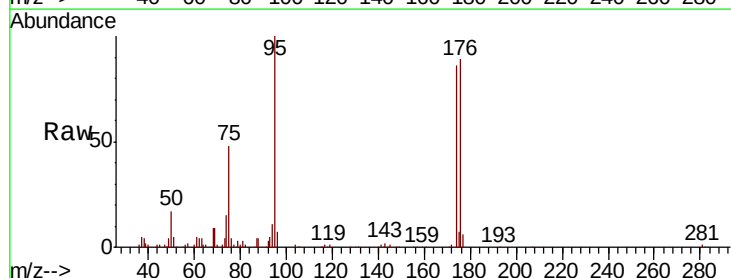
Instrument :
MSVOA_N
ClientSampled :
I.BLK

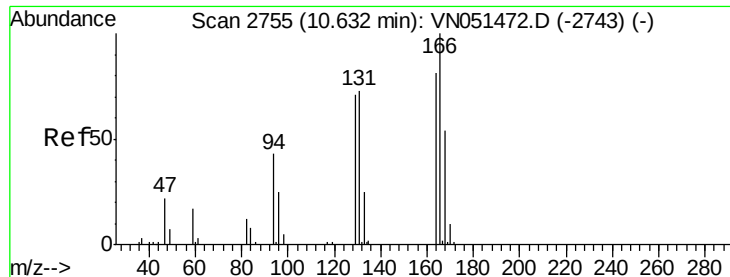
Tot Ion: 43 Resp: 4923
Ion Ratio Lower Upper
43 100
58 45.7 41.3 61.9
57 9.3 13.4 20.0#



#60
4-Bromofluorobenzene
Concen: 23.347 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. 0.00 min
Lab File: VN051477.D
Acq: 25 Sep 2018 11:13

Tgt Ion: 95 Resp: 169258
Ion Ratio Lower Upper
95 100
174 89.8 73.5 110.3
176 89.1 70.2 105.2





#61

Tetrachloroethene

Concen: 0.438 ug/l

RT: 10.63 min Scan# 2756

Delta R.T. 0.00 min

Lab File: VN051477.D

Acq: 25 Sep 2018 11:13

Instrument :

MSVOA_N

ClientSampled :

I.BLK

Tot Ion:164 Resp: 2514

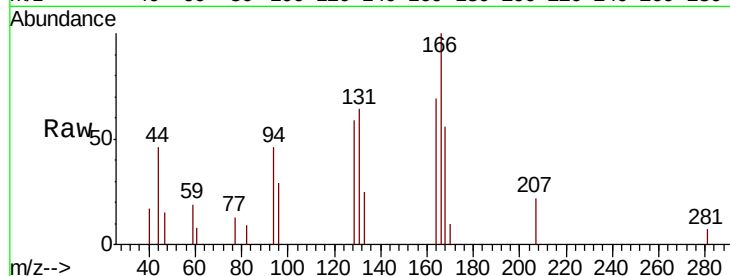
Ion Ratio Lower Upper

164 100

166 131.0 98.7 148.1

129 85.9 69.6 104.4

131 92.5 72.4 108.6

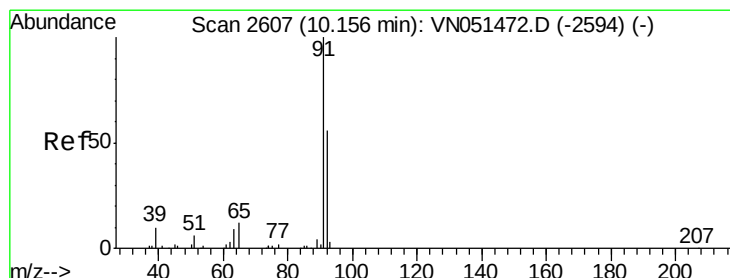
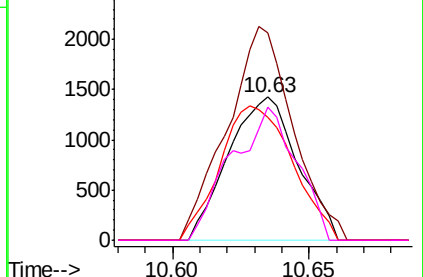
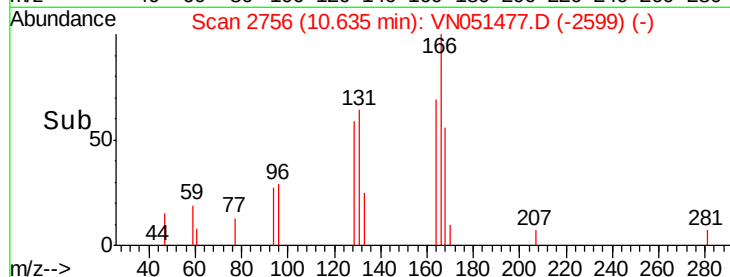


Abundance Ion 163.85 (163.55 to 164.55): V

Ion 165.80 (165.50 to 166.50): V

Ion 128.90 (128.60 to 129.60): V

Ion 130.90 (130.60 to 131.60): V



#62

Toluene

Concen: 0.233 ug/l

RT: 10.16 min Scan# 2609

Delta R.T. 0.01 min

Lab File: VN051477.D

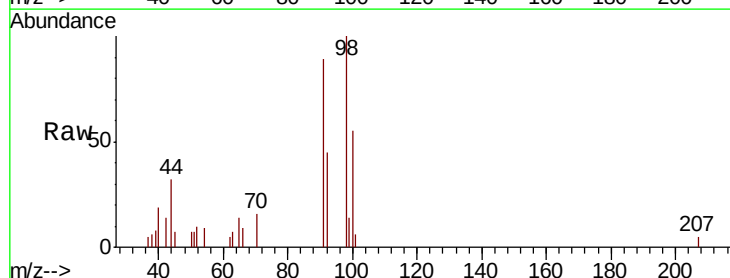
Acq: 25 Sep 2018 11:13

Tgt Ion: 91 Resp: 5891

Ion Ratio Lower Upper

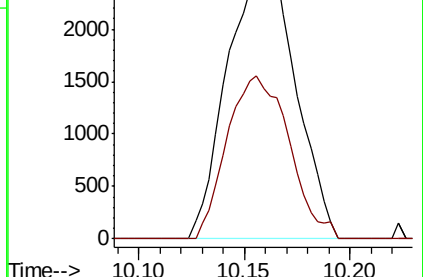
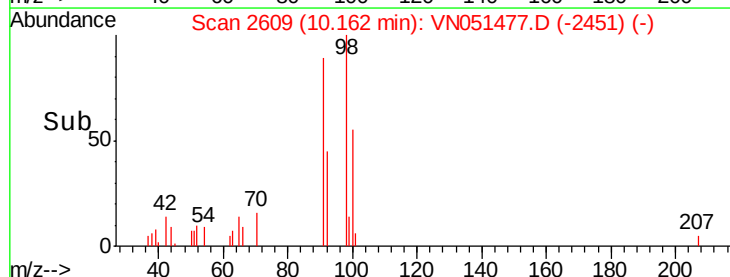
91 100

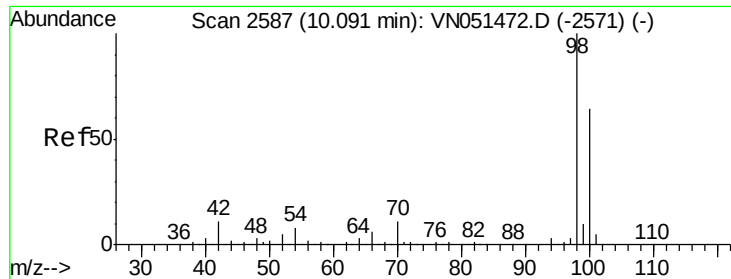
92 53.5 44.6 66.8



Abundance Ion 91.00 (90.70 to 91.70): V

Ion 92.00 (91.70 to 92.70): V





#63

Toluene-d8

Concen: 29.948 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN051477.D

Acq: 25 Sep 2018 11:13

Instrument :

MSVOA_N

ClientSampled :

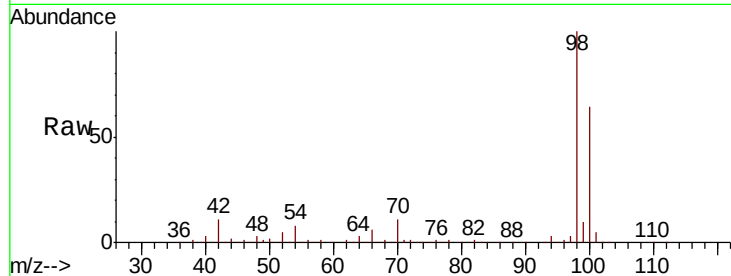
I.BLK

Tot Ion: 98 Resp: 709058

Ion Ratio Lower Upper

98 100

100 62.6 50.8 76.2



Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN

10.09

400000

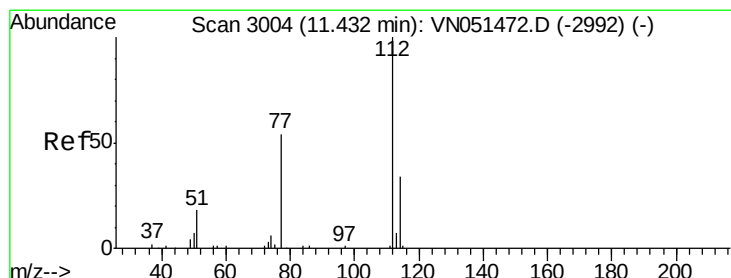
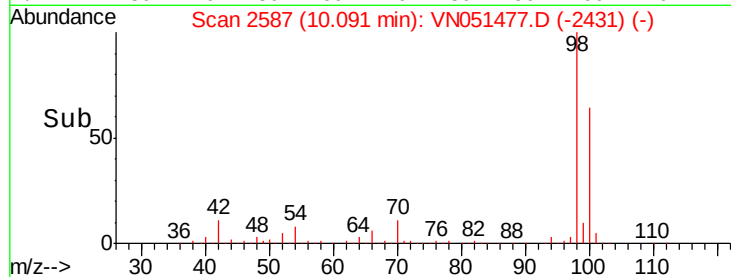
300000

200000

100000

0

Time-->



#64

Chlorobenzene

Concen: 0.386 ug/l

RT: 11.44 min Scan# 3005

Delta R.T. 0.00 min

Lab File: VN051477.D

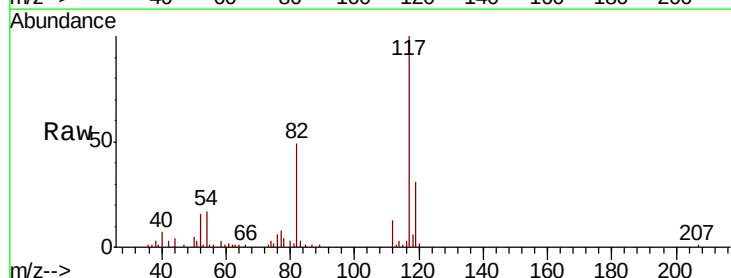
Acq: 25 Sep 2018 11:13

Tgt Ion: 112 Resp: 5987

Ion Ratio Lower Upper

112 100

114 21.1 27.5 41.3#



Abundance Ion 112.00 (111.70 to 112.70): V

Ion 114.00 (113.70 to 114.70): V

4000

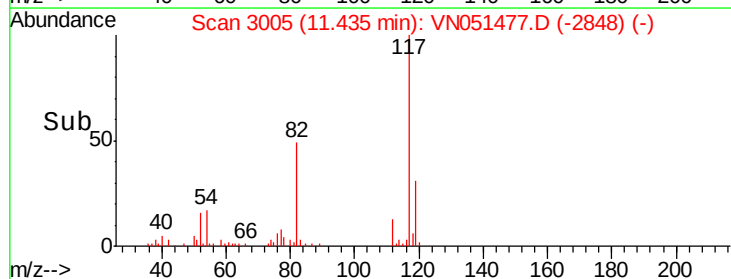
3000

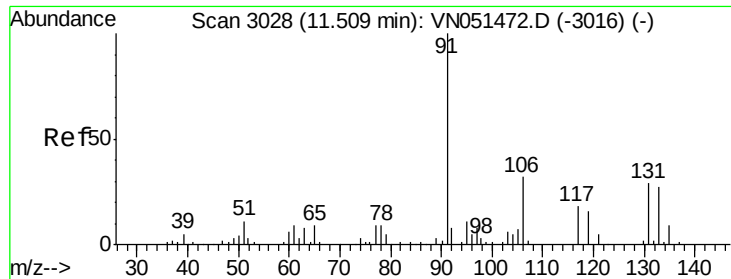
2000

1000

0

Time-->

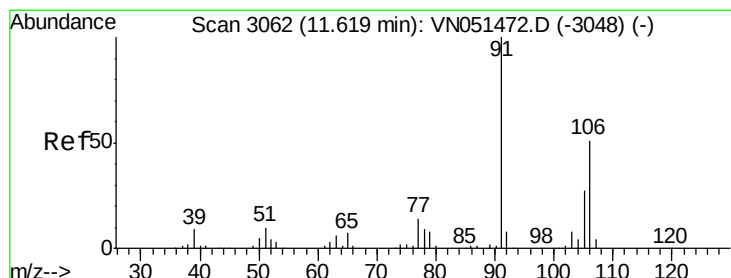
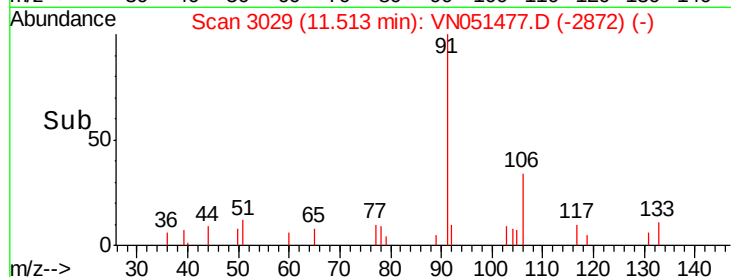
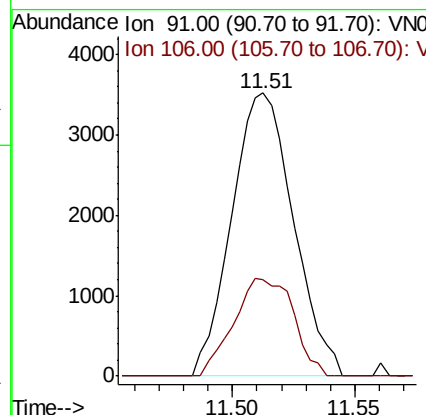
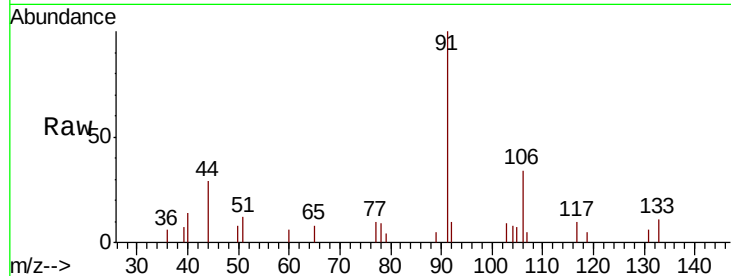




#66
Ethyl Benzene
Concen: 0.237 ug/l
RT: 11.51 min Scan# 3029
Delta R.T. 0.00 min
Lab File: VN051477.D
Acq: 25 Sep 2018 11:13

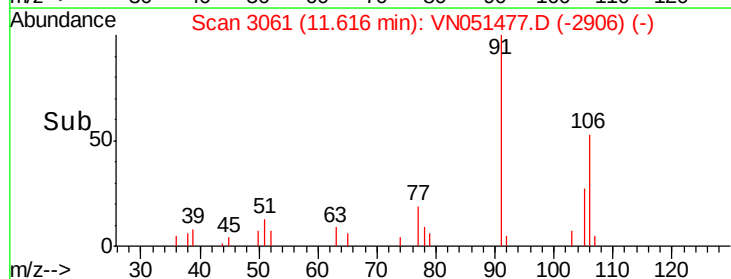
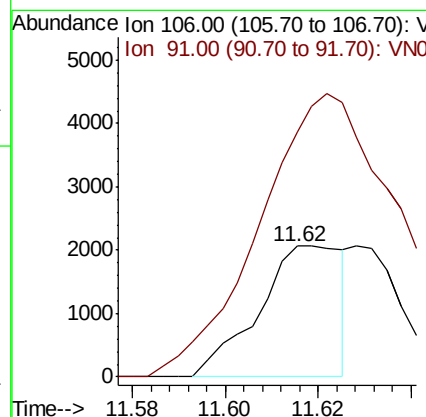
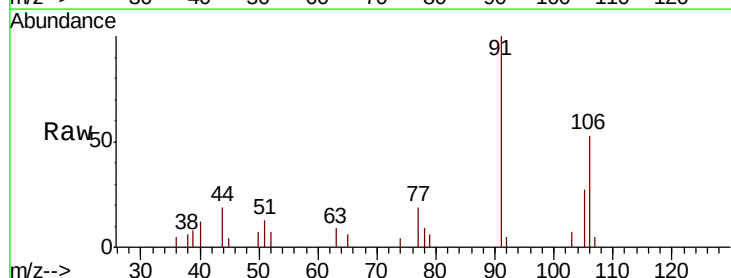
Instrument :
MSVOA_N
ClientSampled :
I.BLK

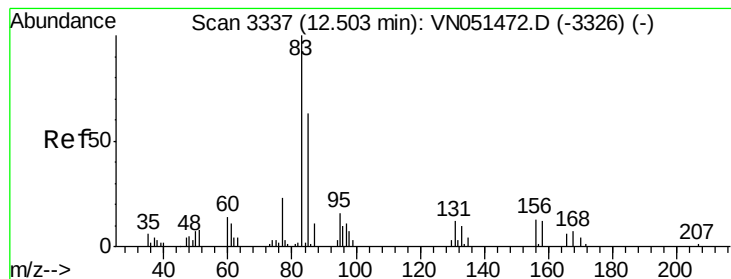
Tot Ion: 91 Resp: 6184
Ion Ratio Lower Upper
91 100
106 33.9 25.9 38.9



#67
m/p-Xylenes
Concen: 0.260 ug/l
RT: 11.62 min Scan# 3061
Delta R.T. -0.00 min
Lab File: VN051477.D
Acq: 25 Sep 2018 11:13

Tgt Ion: 106 Resp: 2607
Ion Ratio Lower Upper
106 100
91 350.1 158.8 238.2#





#71

1,1,2,2-Tetrachloroethane

Concen: 0.254 ug/l

RT: 12.51 min Scan# 3338

Delta R.T. 0.00 min

Lab File: VN051477.D

Acq: 25 Sep 2018 11:13

Instrument :

MSVOA_N

ClientSampled :

I.BLK

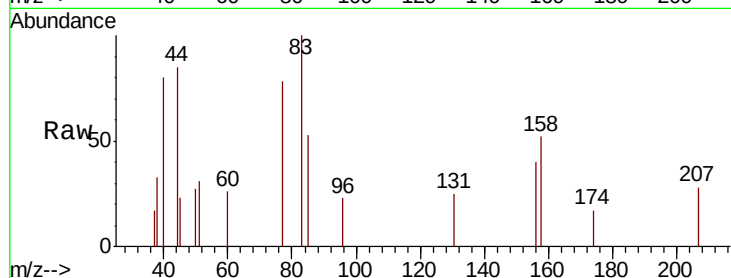
Tot Ion: 83 Resp: 1530

Ion Ratio Lower Upper

83 100

131 7.9 5.5 16.4

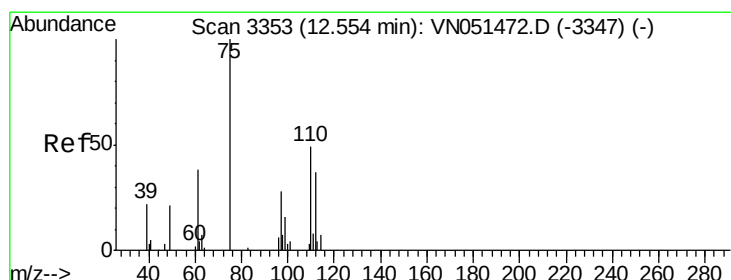
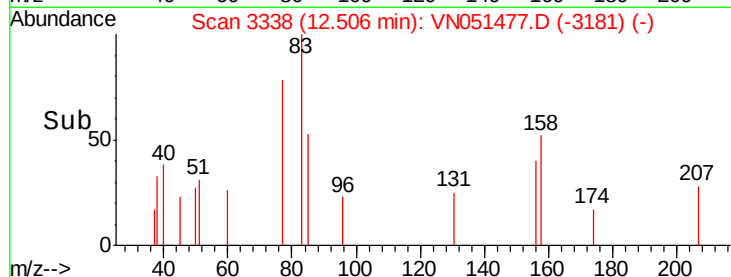
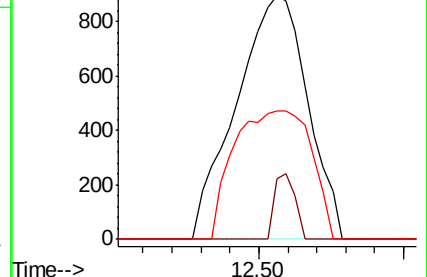
85 57.1 30.6 91.8



Abundance Ion 83.00 (82.70 to 83.70): VN0

Ion 131.00 (130.70 to 131.70): VN0

Ion 85.00 (84.70 to 85.70): VN0



#72

1,2,3-Trichloropropane

Concen: 0.508 ug/l

RT: 12.56 min Scan# 3355

Delta R.T. 0.01 min

Lab File: VN051477.D

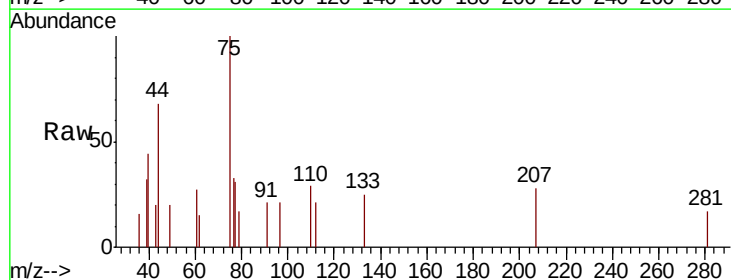
Acq: 25 Sep 2018 11:13

Tgt Ion: 75 Resp: 2412

Ion Ratio Lower Upper

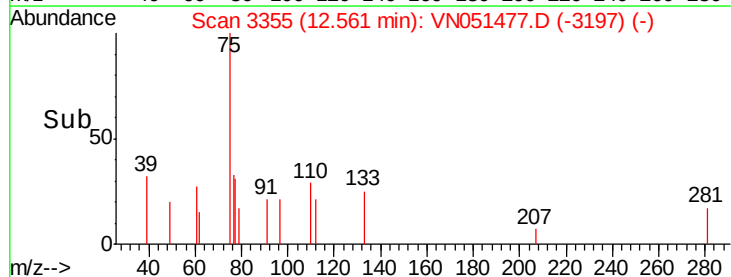
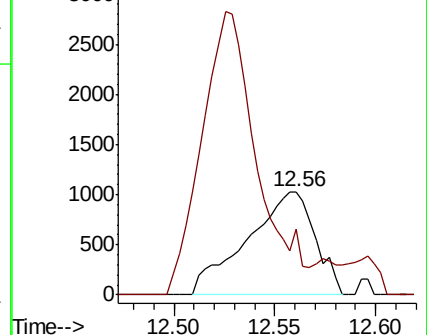
75 100

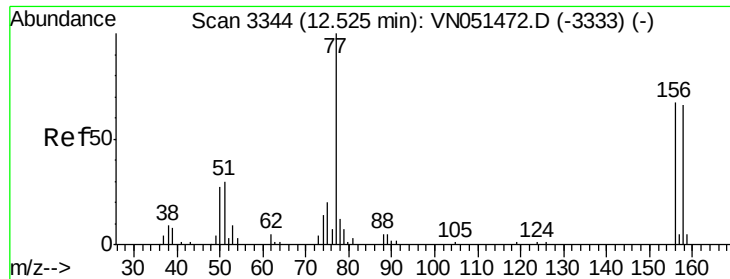
77 9.7 0.0 400.0



Abundance Ion 75.00 (74.70 to 75.70): VN0

Ion 77.00 (76.70 to 77.70): VN0





#73

Bromobenzene

Concen: 0.493 ug/l

RT: 12.53 min Scan# 3344

Delta R.T. 0.00 min

Lab File: VN051477.D

Acq: 25 Sep 2018 11:13

Instrument :

MSVOA_N

ClientSampled :

I.BLK

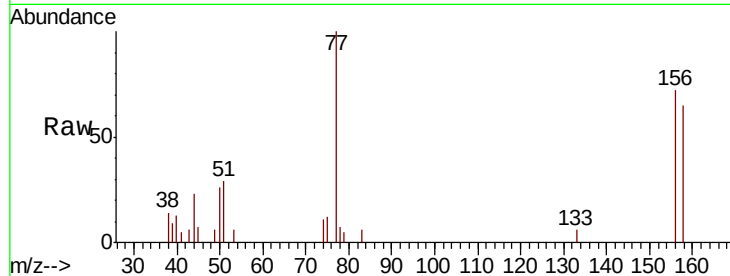
Tot Ion:156 Resp: 3182

Ion Ratio Lower Upper

156 100

77 161.6 0.0 377.4

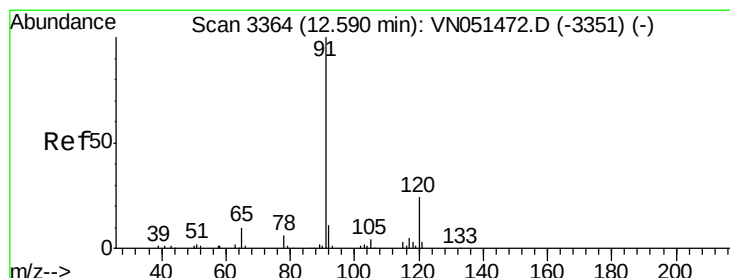
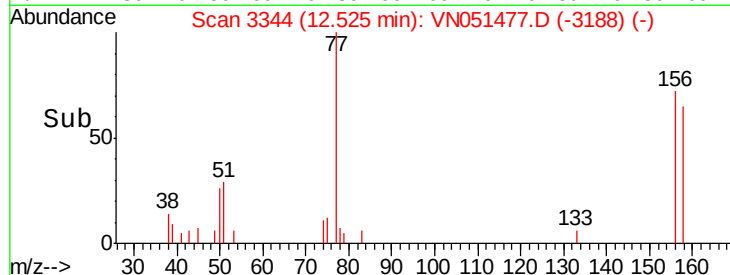
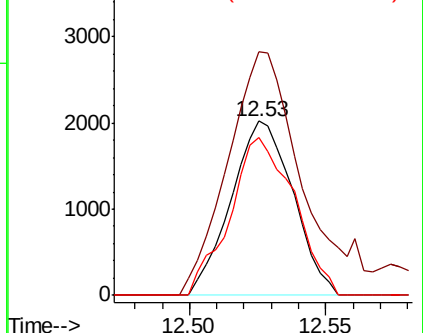
158 94.2 0.0 203.0



Abundance Ion 156.00 (155.70 to 156.70): V

Ion 77.00 (76.70 to 77.70): VN0

Ion 158.00 (157.70 to 158.70): V



#74

n-propylbenzene

Concen: 0.287 ug/l

RT: 12.59 min Scan# 3365

Delta R.T. 0.00 min

Lab File: VN051477.D

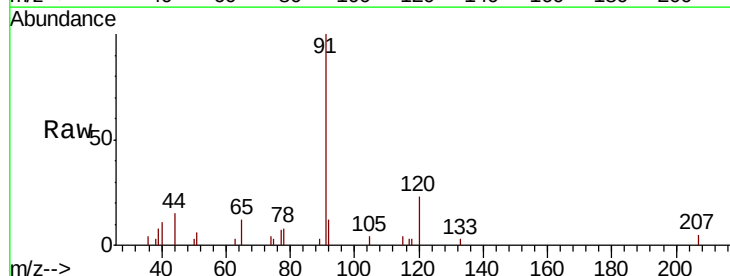
Acq: 25 Sep 2018 11:13

Tgt Ion: 91 Resp: 8542

Ion Ratio Lower Upper

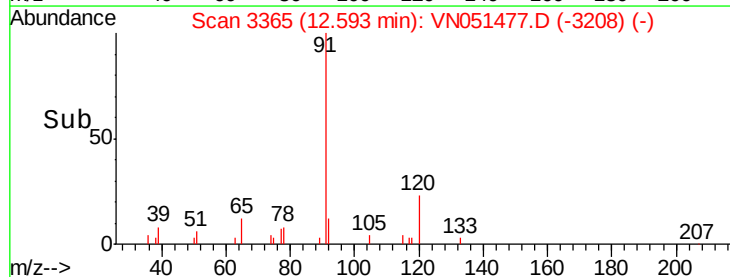
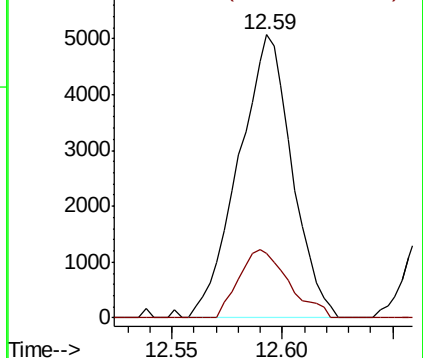
91 100

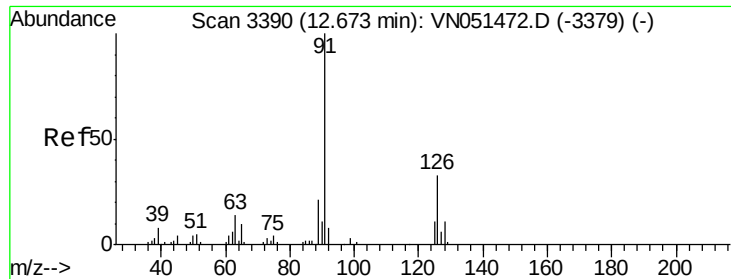
120 22.4 0.0 45.0



Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 120.00 (119.70 to 120.70): V





#75

2-Chlorotoluene

Concen: 0.341 ug/l

RT: 12.67 min Scan# 3390

Delta R.T. 0.00 min

Lab File: VN051477.D

Acq: 25 Sep 2018 11:13

Instrument :

MSVOA_N

ClientSampled :

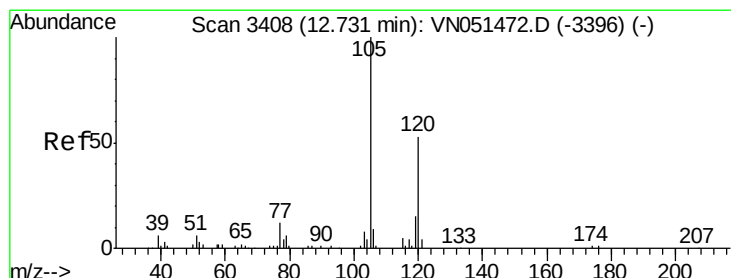
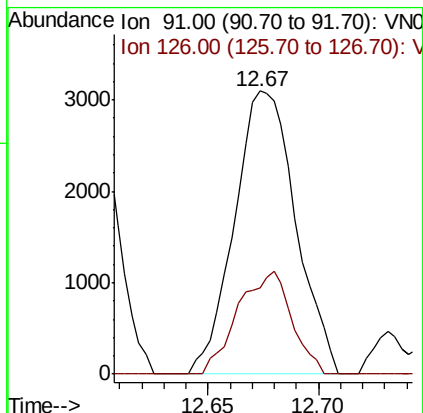
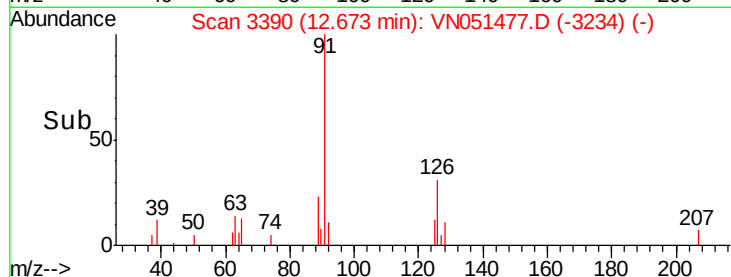
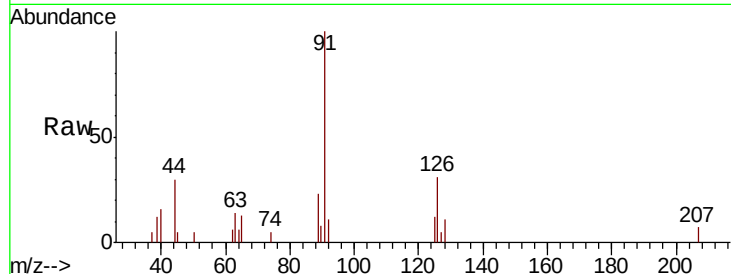
I.BLK

Tot Ion: 91 Resp: 5983

Ion Ratio Lower Upper

91 100

126 31.8 0.0 67.6



#76

1,3,5-Trimethylbenzene

Concen: 0.230 ug/l

RT: 12.73 min Scan# 3409

Delta R.T. 0.00 min

Lab File: VN051477.D

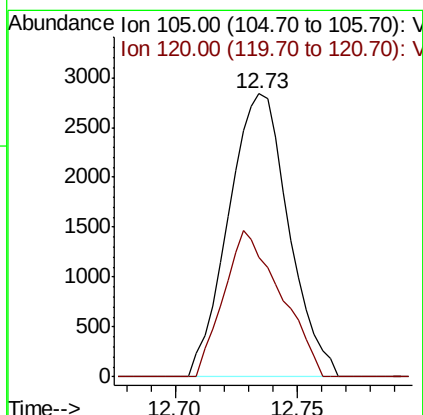
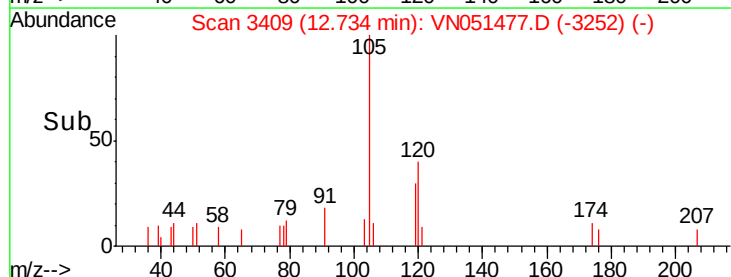
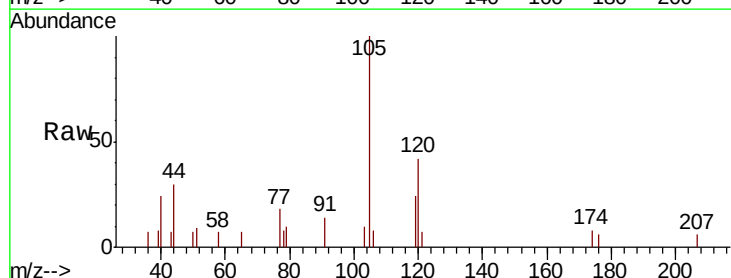
Acq: 25 Sep 2018 11:13

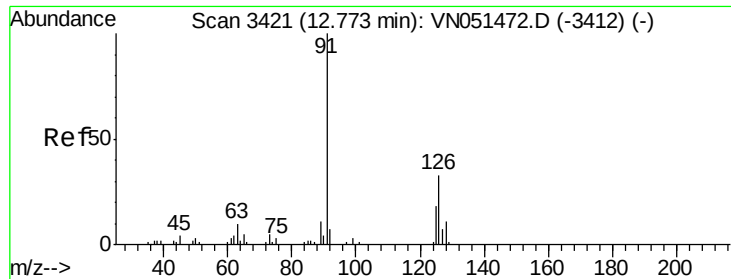
Tgt Ion: 105 Resp: 4852

Ion Ratio Lower Upper

105 100

120 49.1 0.0 98.2





#78

4-Chlorotoluene

Concen: 0.445 ug/l

RT: 12.77 min Scan# 3421

Delta R.T. 0.00 min

Lab File: VN051477.D

Acq: 25 Sep 2018 11:13

Instrument :

MSVOA_N

ClientSampled :

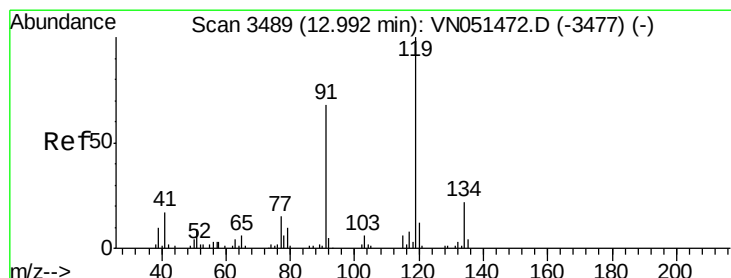
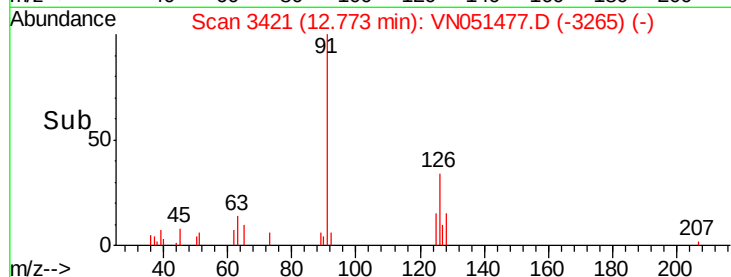
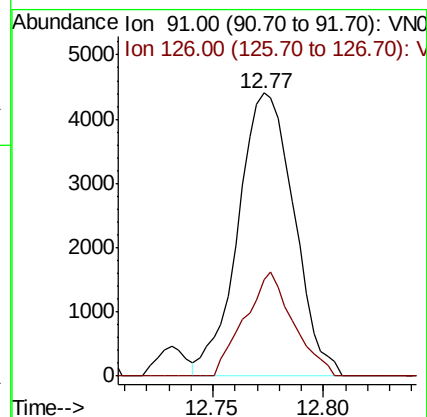
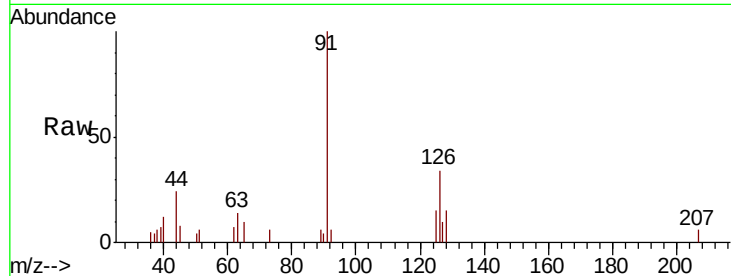
I.BLK

Tot Ion: 91 Resp: 7750

Ion Ratio Lower Upper

91 100

126 31.9 0.0 65.2



#79

tert-butylbenzene

Concen: 0.222 ug/l

RT: 12.99 min Scan# 3489

Delta R.T. 0.00 min

Lab File: VN051477.D

Acq: 25 Sep 2018 11:13

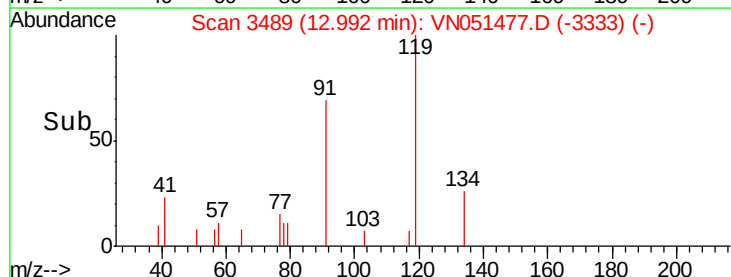
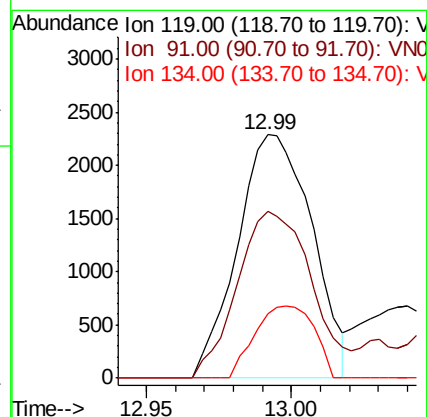
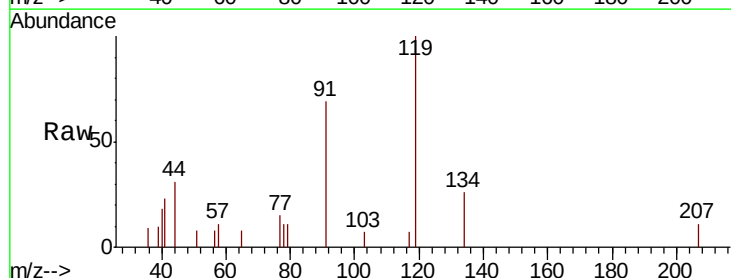
Tgt Ion: 119 Resp: 4081

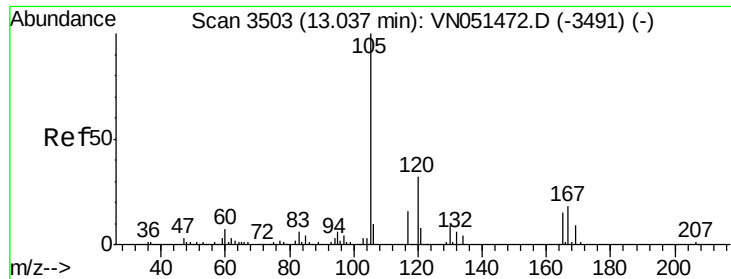
Ion Ratio Lower Upper

119 100

91 68.6 0.0 131.6

134 23.5 0.0 46.2

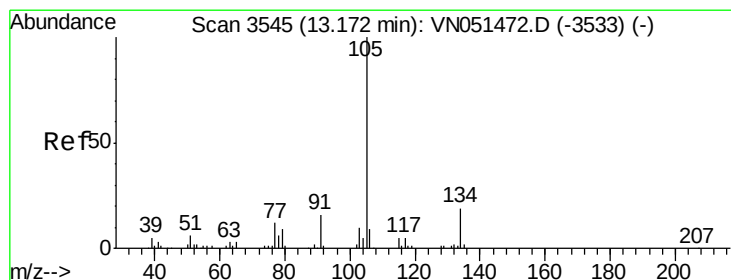
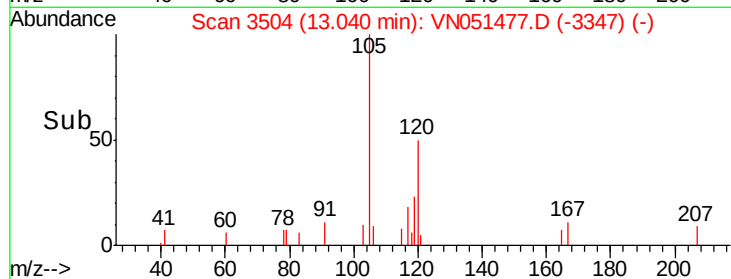
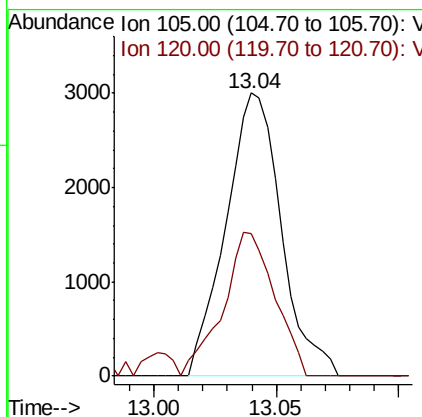
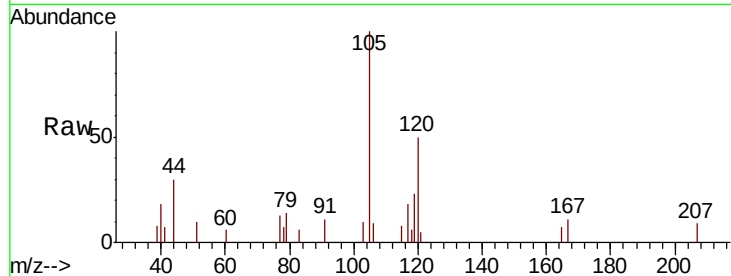




#80
 1,2,4-Trimethylbenzene
 Concen: 0.223 ug/l
 RT: 13.04 min Scan# 3504
 Delta R.T. 0.00 min
 Lab File: VN051477.D
 Acq: 25 Sep 2018 11:13

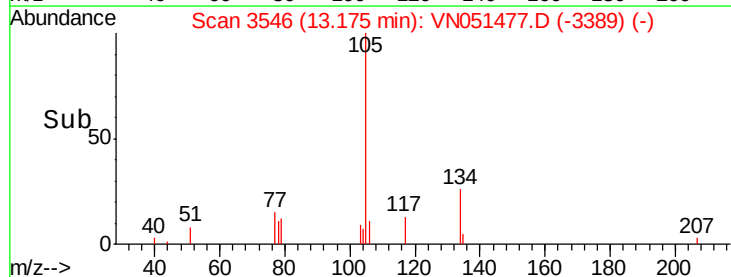
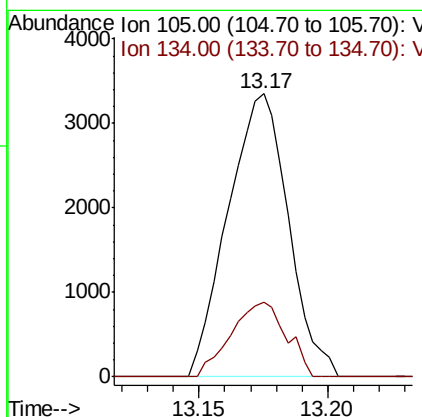
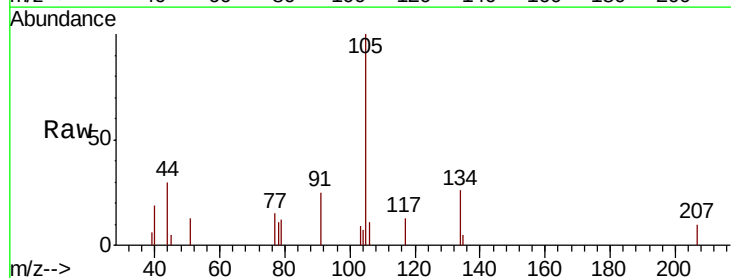
Instrument :
 MSVOA_N
 ClientSampled :
 I.BLK

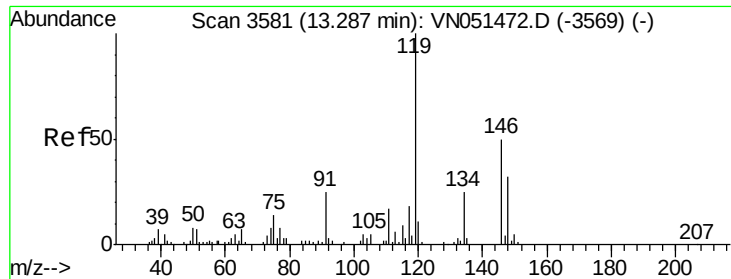
Tot Ion:105 Resp: 4739
 Ion Ratio Lower Upper
 105 100
 120 47.3 0.0 89.6



#81
 sec-Butylbenzene
 Concen: 0.216 ug/l
 RT: 13.17 min Scan# 3546
 Delta R.T. 0.00 min
 Lab File: VN051477.D
 Acq: 25 Sep 2018 11:13

Tgt Ion:105 Resp: 5471
 Ion Ratio Lower Upper
 105 100
 134 24.3 0.0 39.4

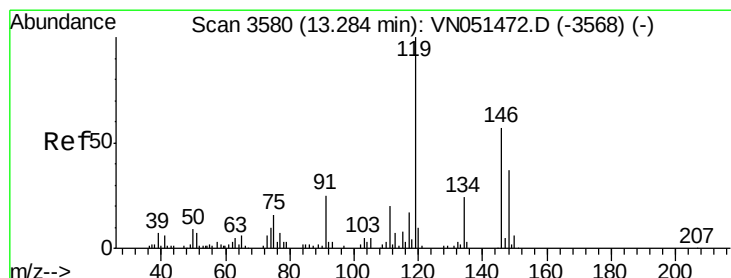
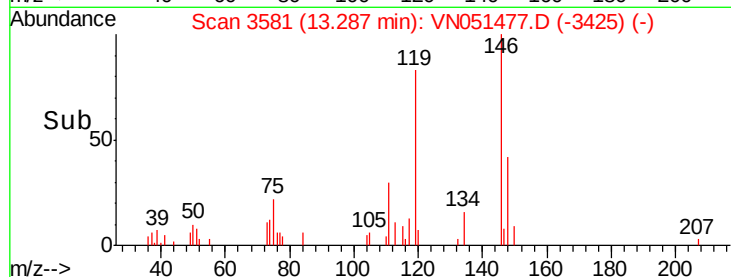
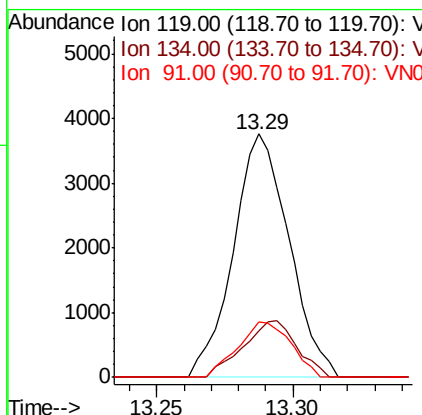
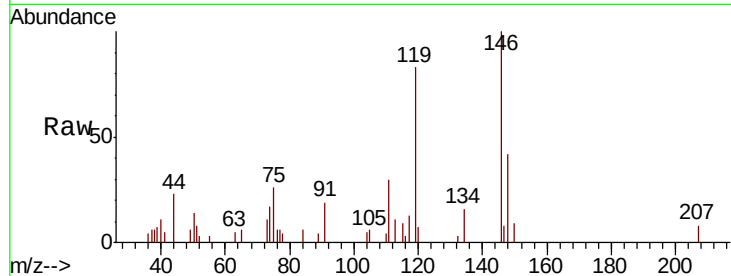




#82
 p-Isopropyltoluene
 Concen: 0.244 ug/l
 RT: 13.29 min Scan# 3581
 Delta R.T. 0.00 min
 Lab File: VN051477.D
 Acq: 25 Sep 2018 11:13

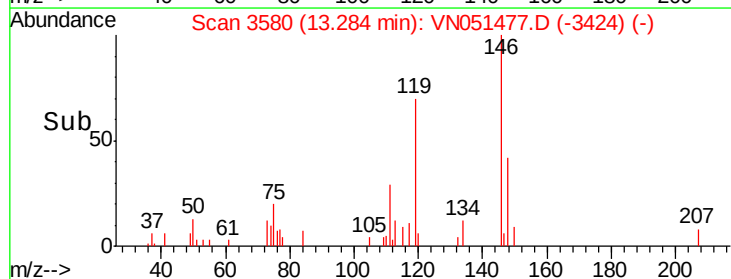
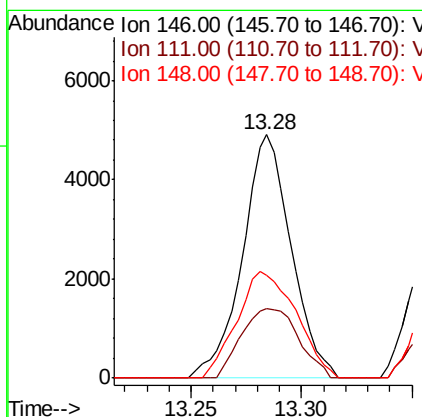
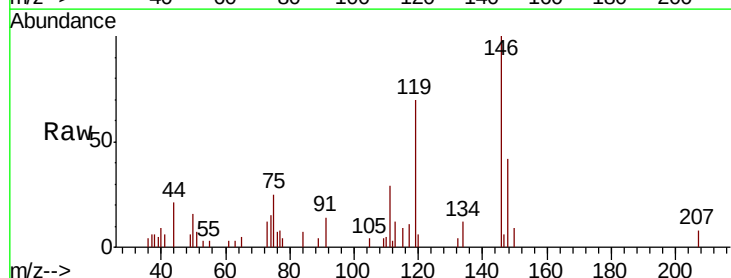
Instrument :
 MSVOA_N
 ClientSampled :
 I.BLK

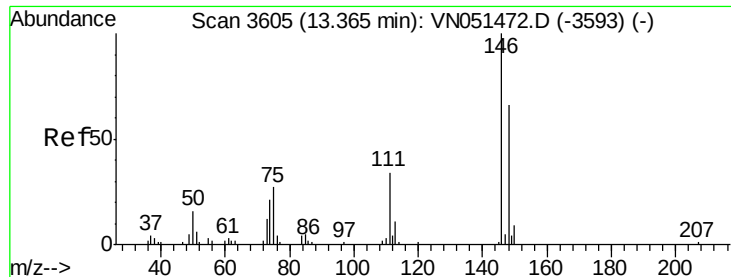
Tot Ion:119 Resp: 5321
 Ion Ratio Lower Upper
 119 100
 134 22.5 0.0 53.6
 91 21.7 0.0 52.0



#83
 1,3-Dichlorobenzene
 Concen: 0.666 ug/l
 RT: 13.28 min Scan# 3580
 Delta R.T. 0.00 min
 Lab File: VN051477.D
 Acq: 25 Sep 2018 11:13

Tgt Ion:146 Resp: 7532
 Ion Ratio Lower Upper
 146 100
 111 33.4 18.1 54.3
 148 53.0 31.3 93.8





#84

1,4-Dichlorobenzene

Concen: 0.737 ug/l

RT: 13.36 min Scan# 3605

Delta R.T. 0.00 min

Lab File: VN051477.D

Acq: 25 Sep 2018 11:13

Instrument :

MSVOA_N

ClientSampled :

I.BLK

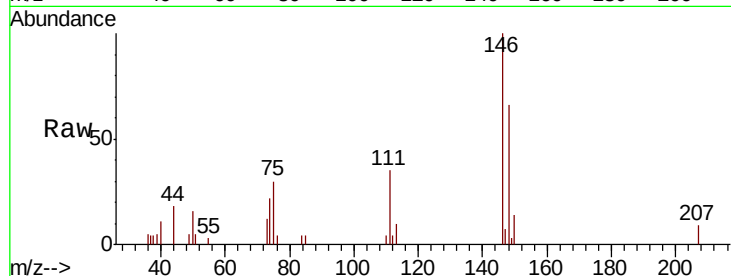
Tot Ion:146 Resp: 7832

Ion Ratio Lower Upper

146 100

111 31.7 17.4 52.2

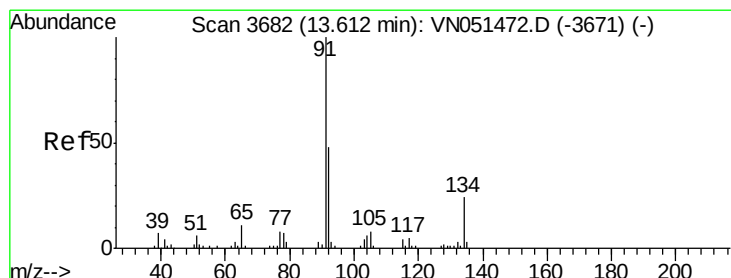
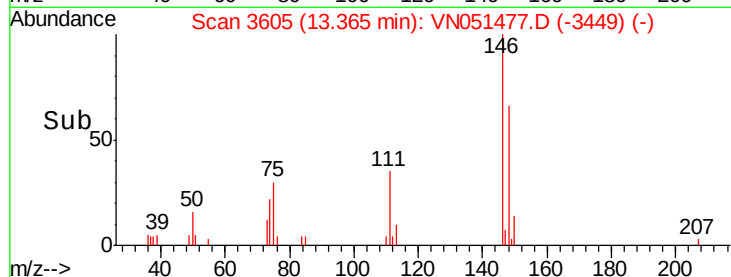
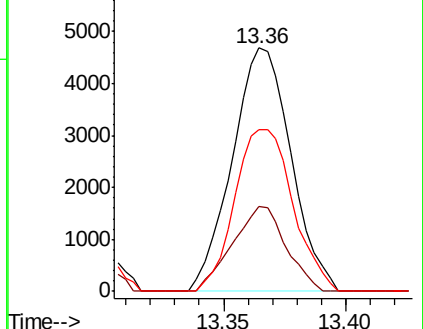
148 65.7 32.8 98.3



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#85

n-Butylbenzene

Concen: 0.357 ug/l

RT: 13.62 min Scan# 3683

Delta R.T. 0.00 min

Lab File: VN051477.D

Acq: 25 Sep 2018 11:13

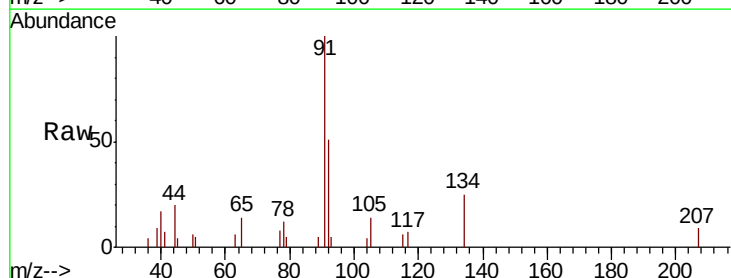
Tgt Ion: 91 Resp: 6398

Ion Ratio Lower Upper

91 100

92 50.3 0.0 97.4

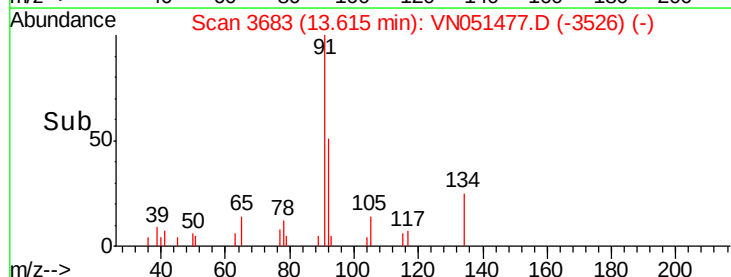
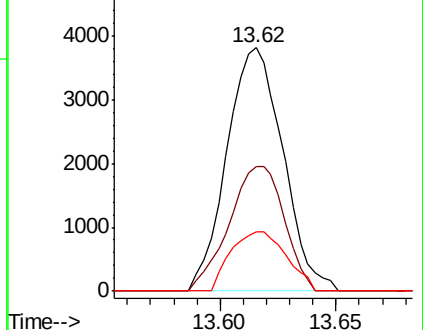
134 24.3 0.0 49.6

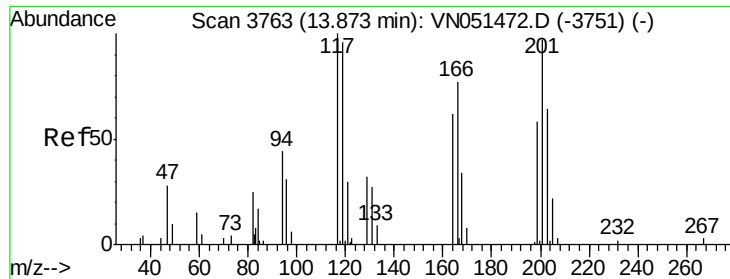


Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 92.00 (91.70 to 92.70): VN0

Ion 134.00 (133.70 to 134.70): V





#86

Hexachloroethane

Concen: 0.255 ug/l

RT: 13.88 min Scan# 3764

Delta R.T. 0.00 min

Lab File: VN051477.D

Acq: 25 Sep 2018 11:13

Instrument :

MSVOA_N

ClientSampled :

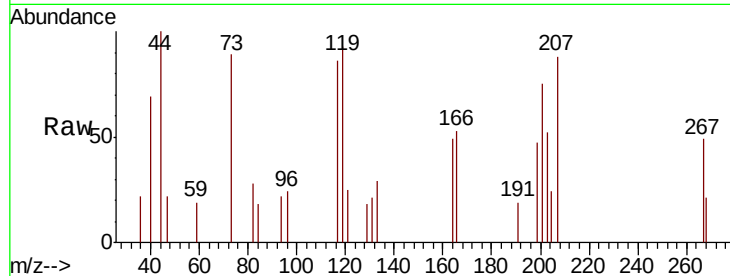
I.BLK

Tot Ion:117 Resp: 1116

Ion Ratio Lower Upper

117 100

201 72.7 47.8 143.3



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 201.00 (200.70 to 201.70): V

13.88

800

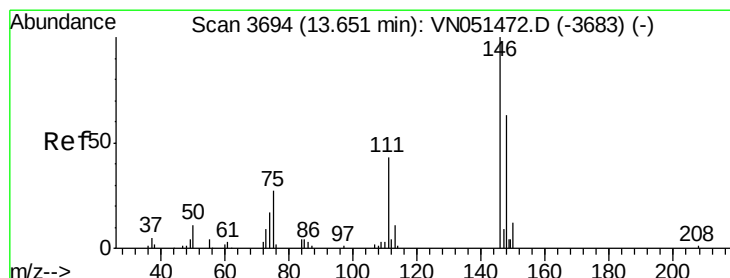
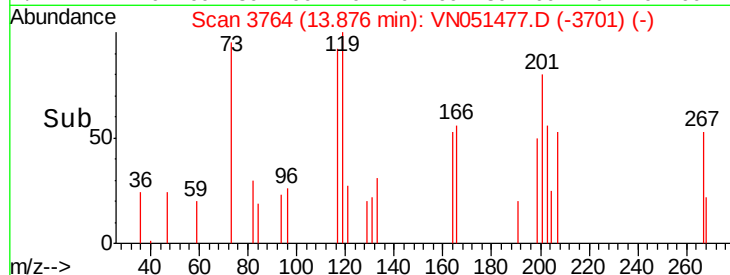
600

400

200

0

Time-->



#87

1,2-Dichlorobenzene

Concen: 0.667 ug/l

RT: 13.65 min Scan# 3695

Delta R.T. 0.00 min

Lab File: VN051477.D

Acq: 25 Sep 2018 11:13

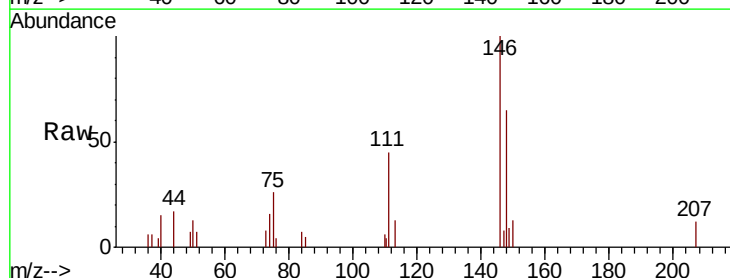
Tgt Ion:146 Resp: 7149

Ion Ratio Lower Upper

146 100

111 41.9 20.8 62.2

148 62.9 33.2 99.6



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V

5000

4000

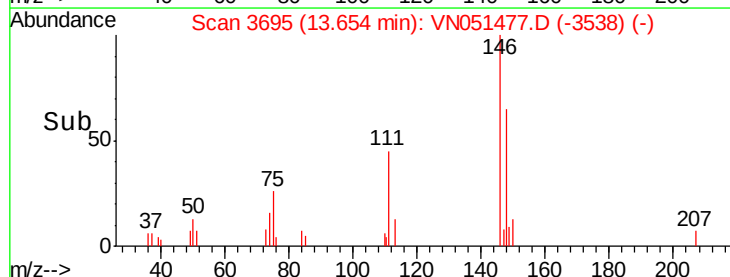
3000

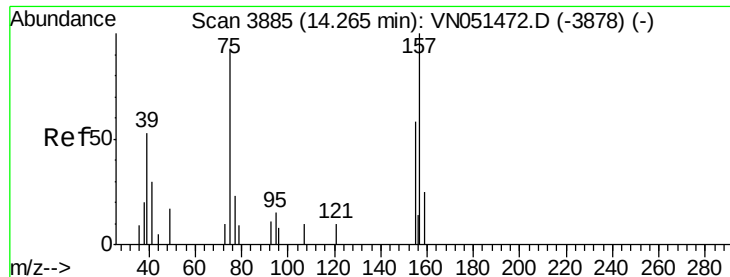
2000

1000

0

Time-->





#88

1,2-Dibromo-3-Chloropropane

Concen: 1.073 ug/l

RT: 14.27 min Scan# 3886

Delta R.T. 0.00 min

Lab File: VN051477.D

Acq: 25 Sep 2018 11:13

Instrument :

MSVOA_N

ClientSampleId :

I.BLK

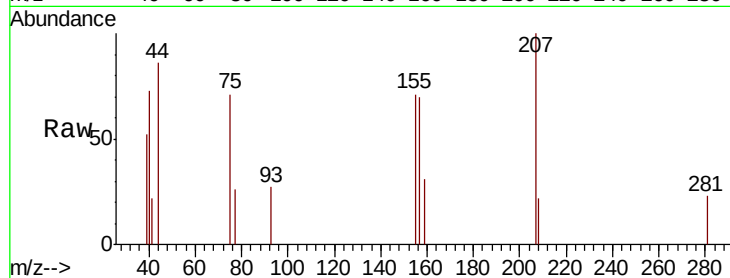
Tot Ion: 75 Resp: 954

Ion Ratio Lower Upper

75 100

155 70.2 57.0 85.6

157 101.7 87.4 131.0



Abundance Ion 75.00 (74.70 to 75.70): VN051477.D (-3729) (-)

Ion 155.00 (154.70 to 155.70): VN051477.D (-3729) (-)

Ion 157.00 (156.70 to 157.70): VN051477.D (-3729) (-)

14.27

600

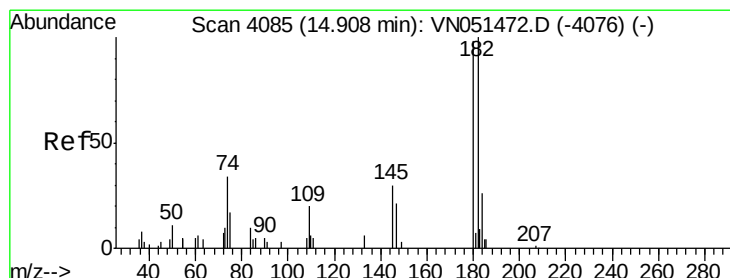
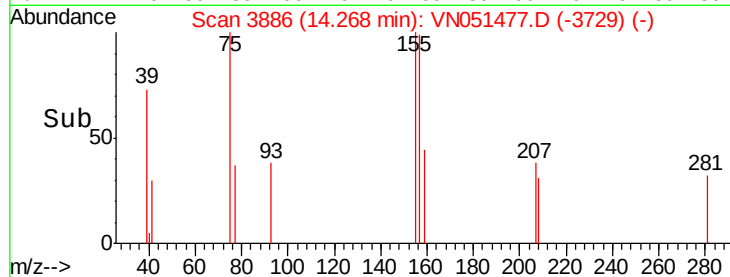
400

200

0

14.24 14.26 14.28 14.30

Time-->



#89

1,2,4-Trichlorobenzene

Concen: 1.999 ug/l

RT: 14.91 min Scan# 4085

Delta R.T. 0.00 min

Lab File: VN051477.D

Acq: 25 Sep 2018 11:13

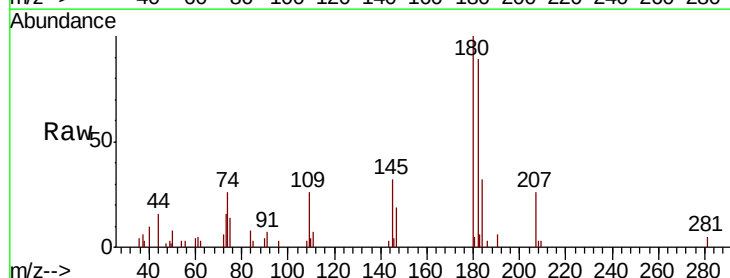
Tgt Ion: 180 Resp: 10676

Ion Ratio Lower Upper

180 100

182 92.1 77.7 116.5

145 25.5 23.4 35.2



Abundance Ion 180.00 (179.70 to 180.70): VN051477.D (-3929) (-)

Ion 182.00 (181.70 to 182.70): VN051477.D (-3929) (-)

Ion 145.00 (144.70 to 145.70): VN051477.D (-3929) (-)

14.91

8000

6000

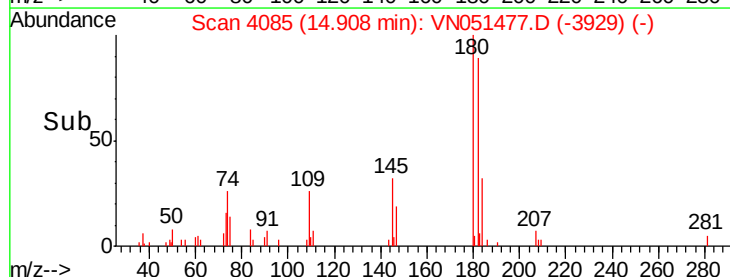
4000

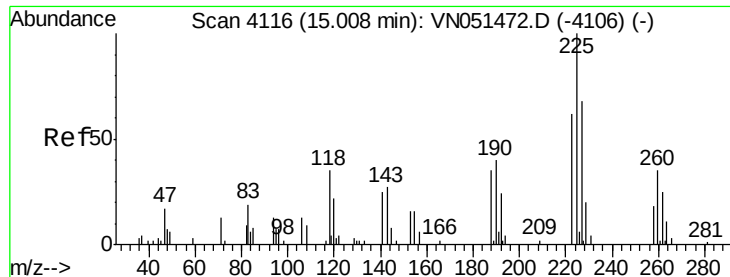
2000

0

14.85 14.90 14.95

Time-->





#90

Hexachlorobutadiene

Concen: 1.762 ug/l

RT: 15.01 min Scan# 4117

Delta R.T. 0.00 min

Lab File: VN051477.D

Acq: 25 Sep 2018 11:13

Instrument :

MSVOA_N

ClientSampled :

I.BLK

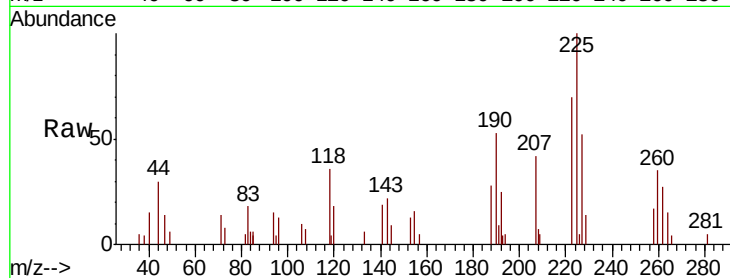
Tot Ion:225 Resp: 7294

Ion Ratio Lower Upper

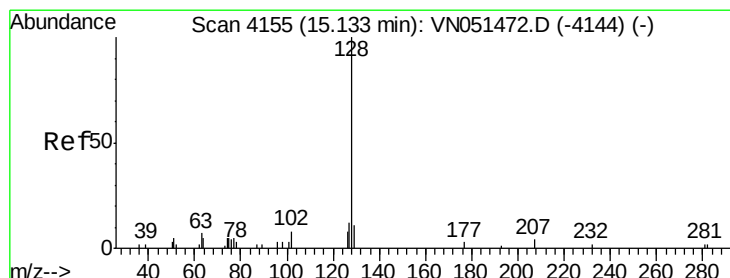
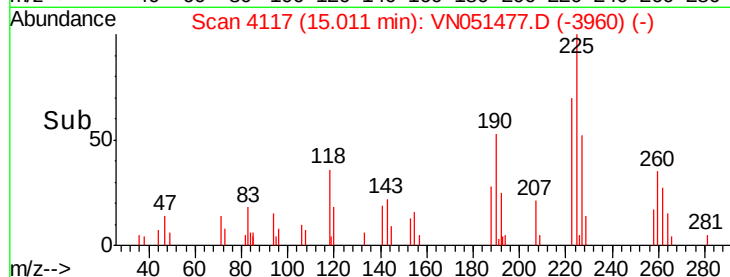
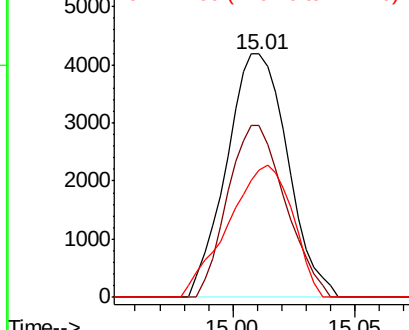
225 100

223 66.7 0.0 117.0

227 57.0 0.0 127.0



Abundance Ion 225.00 (224.70 to 225.70): V
Ion 223.00 (222.70 to 223.70): V
Ion 227.00 (226.70 to 227.70): V



#91

Naphthalene

Concen: 2.319 ug/l

RT: 15.14 min Scan# 4156

Delta R.T. 0.00 min

Lab File: VN051477.D

Acq: 25 Sep 2018 11:13

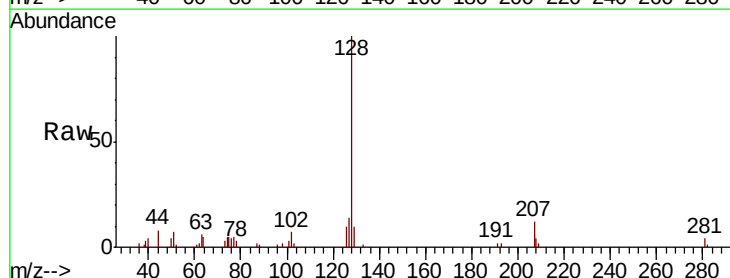
Tgt Ion:128 Resp: 23371

Ion Ratio Lower Upper

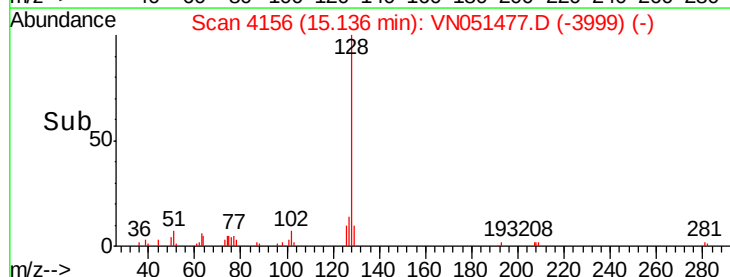
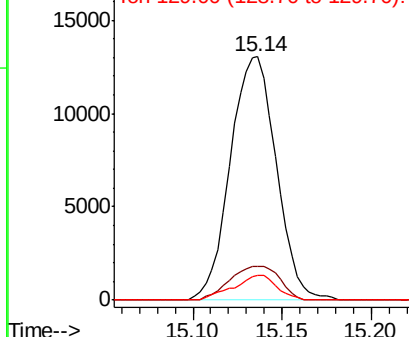
128 100

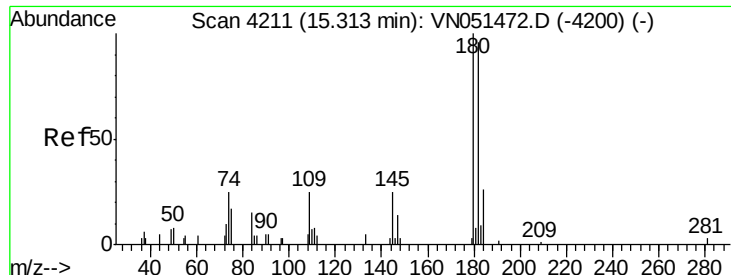
127 15.1 10.1 15.1

129 9.7 8.4 12.6



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

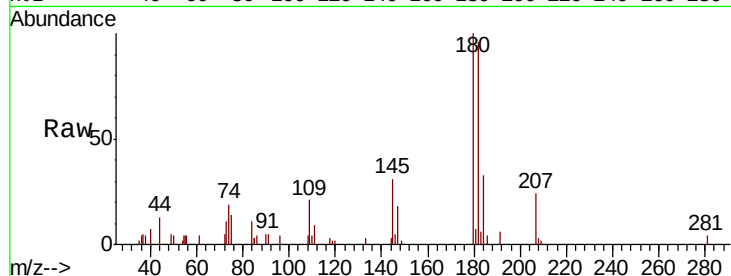




#92
 1,2,3-Trichlorobenzene
 Concen: 2.594 ug/l
 RT: 15.32 min Scan# 4212
 Delta R.T. 0.00 min
 Lab File: VN051477.D
 Acq: 25 Sep 2018 11:13

Instrument :
 MSVOA_N
 ClientSampleId :
 I.BLK

Tot Ion	Ion	Ratio	Lower	Upper
180	100			
182	98.8	0.0	198.0	
145	32.2	0.0	36.8	



Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V

