

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN102318\
 Data File : VN051970.D
 Acq On : 23 Oct 2018 18:39
 Operator : MD\SY
 Sample : J5643-01 5X
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 14 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Oct 24 07:30:24 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N101218W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Oct 12 10:23:44 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.20	128	153758	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.59	114	829576	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	664177	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.03	65	281319	30.07	ug/l	0.00
Spiked Amount 30.000	Range 50 - 169		Recovery	=	100.23%	
60) 4-Bromofluorobenzene	12.40	95	236225	24.66	ug/l	0.00
Spiked Amount 30.000	Range 56 - 143		Recovery	=	82.20%	
63) Toluene-d8	10.09	98	906428	31.43	ug/l	0.00
Spiked Amount 30.000	Range 66 - 137		Recovery	=	104.77%	

Target Compounds

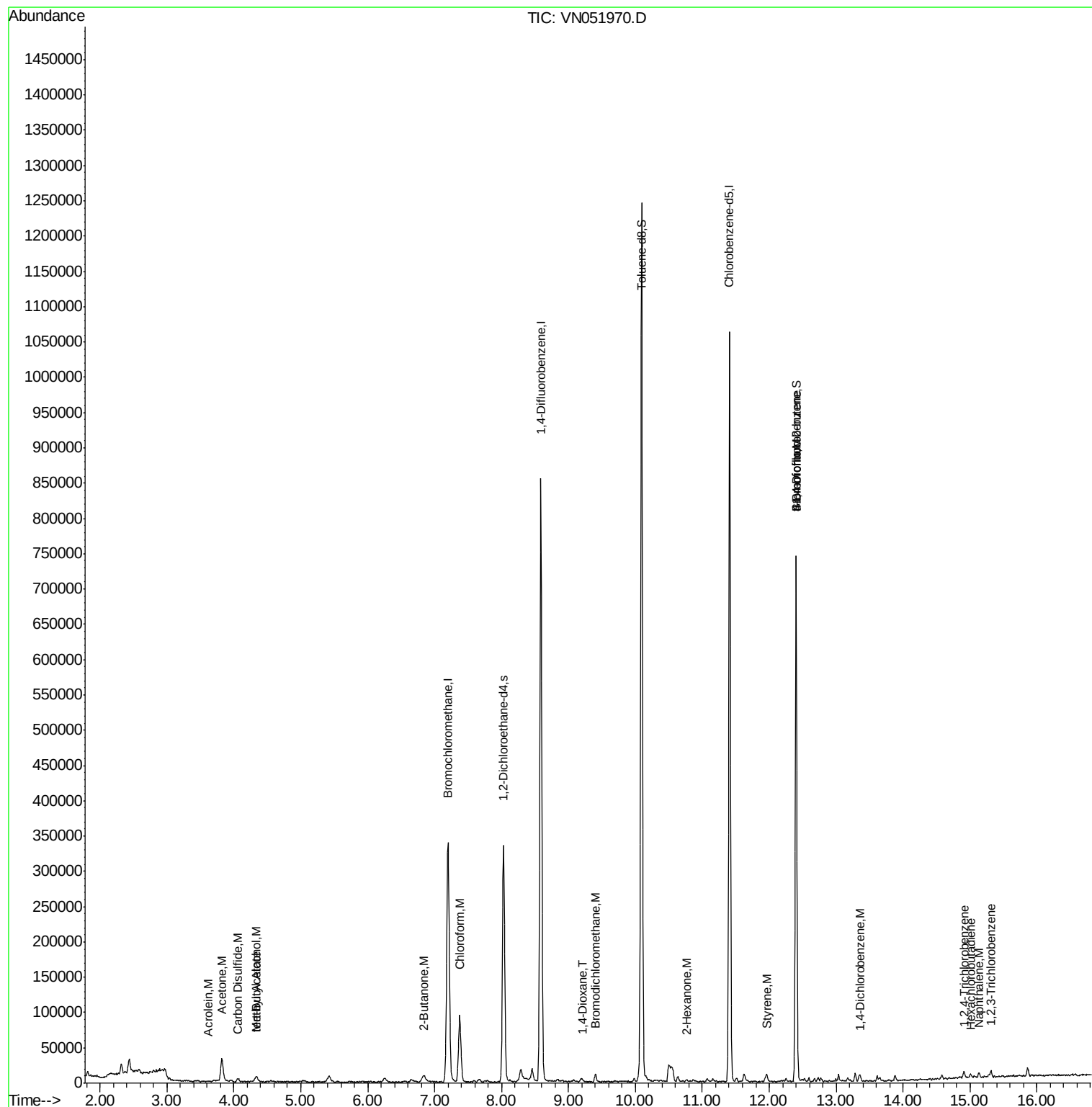
					Ovalue
12) Methyl Acetate	4.33	43	13654	3.106 ug/l	92
13) Acrolein	3.63	56	157	0.542 ug/l	87
15) Acetone	3.82	58	17442	35.913 ug/l	96
16) Carbon Disulfide	4.06	76	3790	0.204 ug/l #	92
23) tert-Butyl Alcohol	4.34	59	594	1.148 ug/l #	100
25) Chloroform	7.37	83	97800	6.303 ug/l	99
30) 2-Butanone	6.84	43	4390	1.964 ug/l #	76
41) Bromodichloromethane	9.40	83	7791	0.682 ug/l	85
45) 1,4-Dioxane	9.22	88	62	0.797 ug/l #	1
56) Bromoform	12.41	173	2166	0.348 ug/l #	1
59) 2-Hexanone	10.75	43	768	0.256 ug/l #	52
69) Styrene	11.96	104	5492	0.246 ug/l #	71
77) t-1,4-Dichloro-2-butene	12.40	75	117069	58.622 ug/l #	12
84) 1,4-Dichlorobenzene	13.36	146	3237	0.202 ug/l	85
89) 1,2,4-Trichlorobenzene	14.91	180	3218	8.024 ug/l	83
90) Hexachlorobutadiene	15.01	225	1075	0.203 ug/l	80
91) Naphthalene	15.14	128	6229	8.811 ug/l #	82
92) 1,2,3-Trichlorobenzene	15.31	180	3292	0.440 ug/l	85

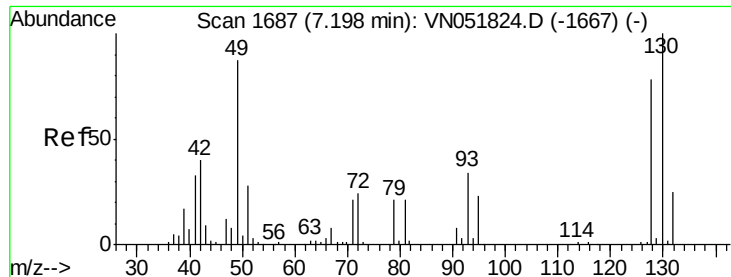
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN102318\
Data File : VN051970.D
Acq On : 23 Oct 2018 18:39
Operator : MD\SY
Sample : J5643-01 5X
Misc : 5.00mL/MSVOA N/WATER
ALS Vial : 14 Sample Multiplier: 28

Instrument :
MSVOA_N
ClientSampleId :

Quant Time: Oct 24 07:30:24 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N101218W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Fri Oct 12 10:23:44 2018
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 30.000 ug/l

RT: 7.20 min Scan# 1688

Delta R.T. 0.00 min

Lab File: VN051970.D

Acq: 23 Oct 2018 18:39

Instrument :
MSVOA_N
ClientSampled :

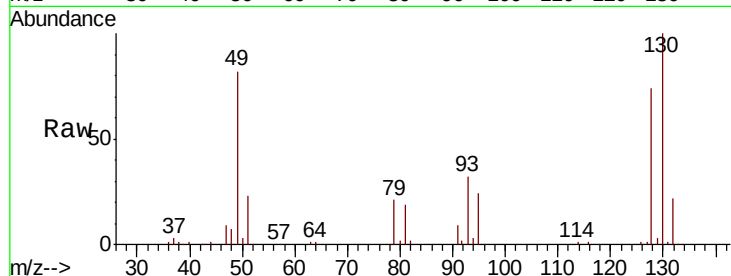
Tot Ion:128 Resp: 153758

Ion Ratio Lower Upper

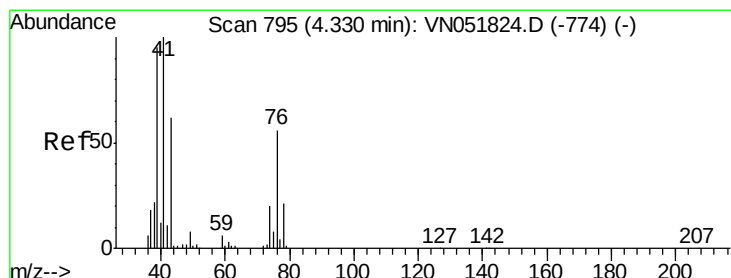
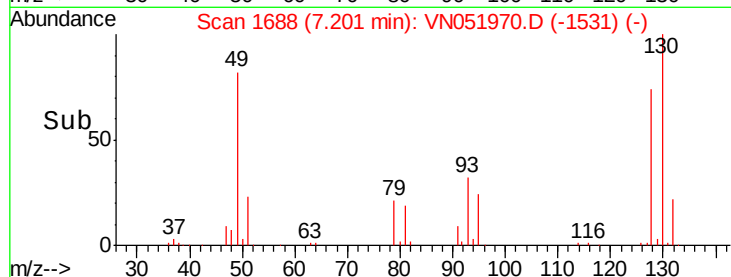
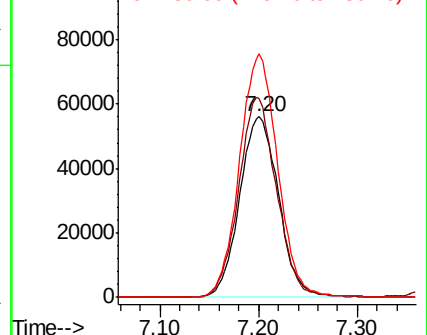
128 100

49 107.4 0.0 403.3

130 131.8 0.0 326.0



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



#12

Methyl Acetate

Concen: 3.106 ug/l

RT: 4.33 min Scan# 795

Delta R.T. 0.00 min

Lab File: VN051970.D

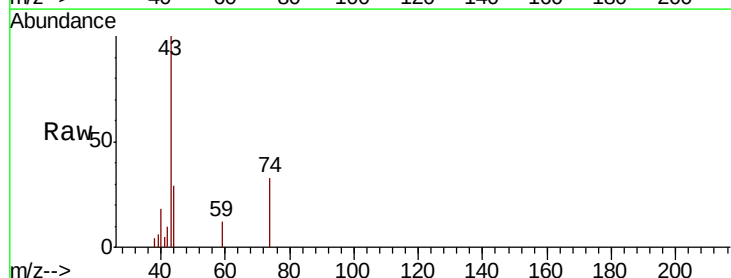
Acq: 23 Oct 2018 18:39

Tgt Ion: 43 Resp: 13654

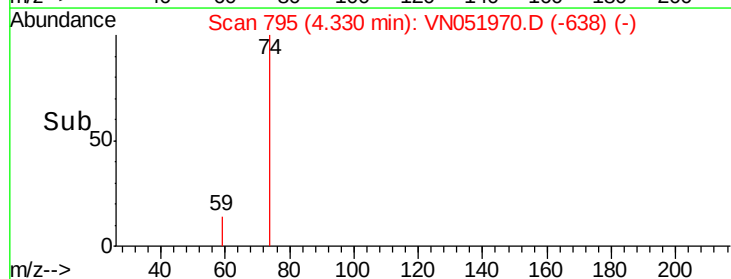
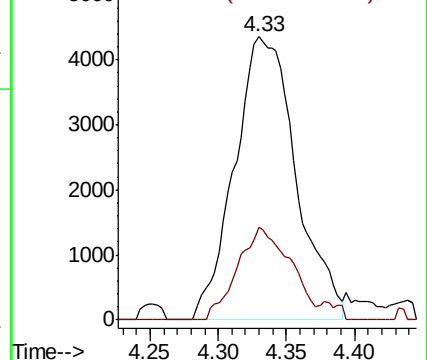
Ion Ratio Lower Upper

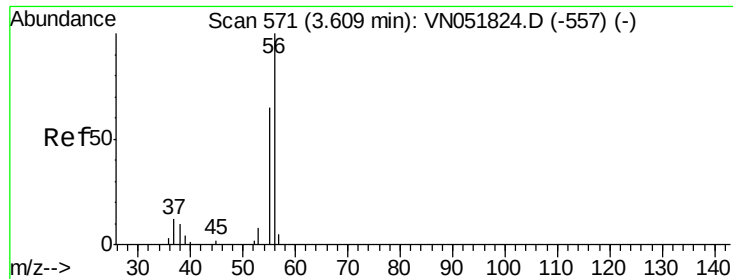
43 100

74 31.2 21.8 32.6



Abundance Ion 43.00 (42.70 to 43.70): VN
Ion 74.00 (73.70 to 74.70): VN

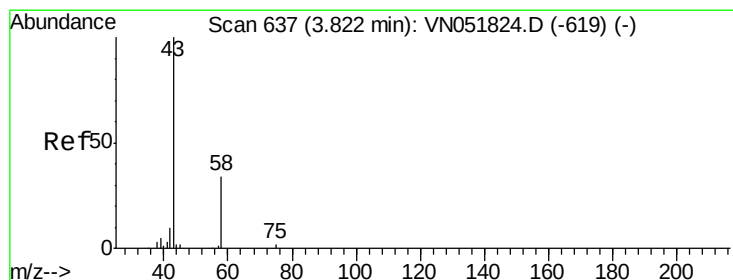
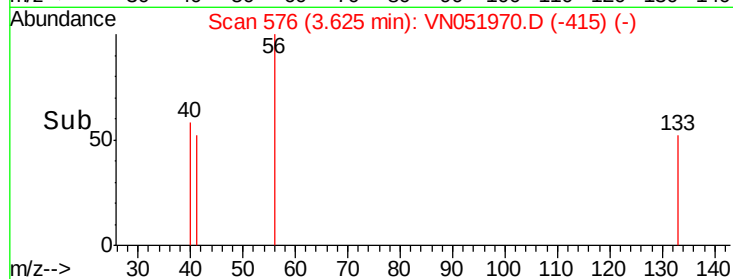
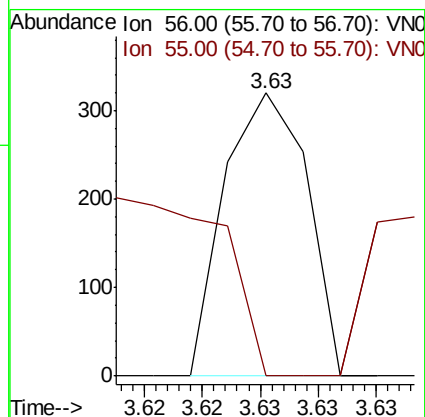
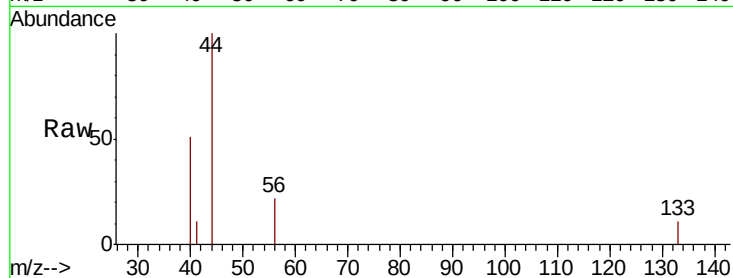




#13
Acrolein
Concen: 0.542 ug/l
RT: 3.63 min Scan# 576
Delta R.T. 0.02 min
Lab File: VN051970.D
Acq: 23 Oct 2018 18:39

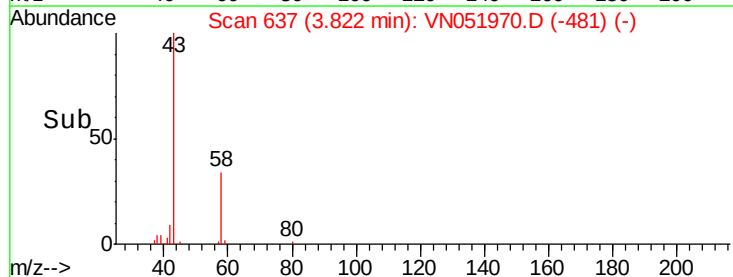
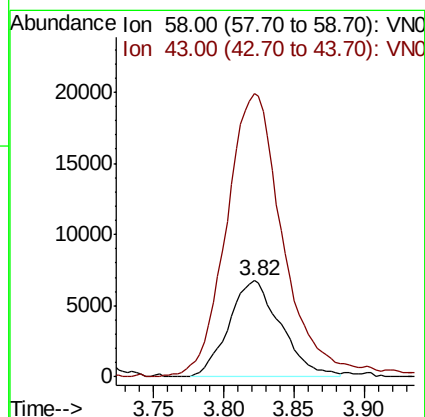
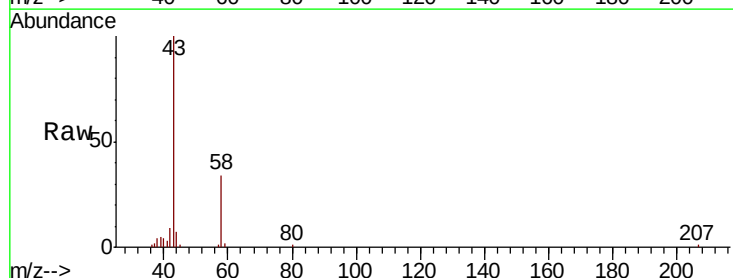
Instrument :
MSVOA_N
ClientSampled :

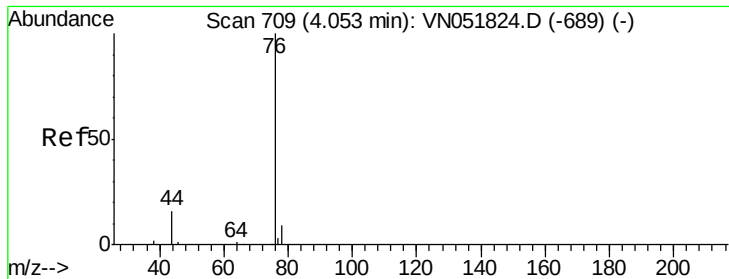
Tot Ion: 56 Resp: 157
Ion Ratio Lower Upper
56 100
55 91.1 64.0 96.0



#15
Acetone
Concen: 35.913 ug/l
RT: 3.82 min Scan# 637
Delta R.T. 0.00 min
Lab File: VN051970.D
Acq: 23 Oct 2018 18:39

Tgt Ion: 58 Resp: 17442
Ion Ratio Lower Upper
58 100
43 283.1 232.2 348.2

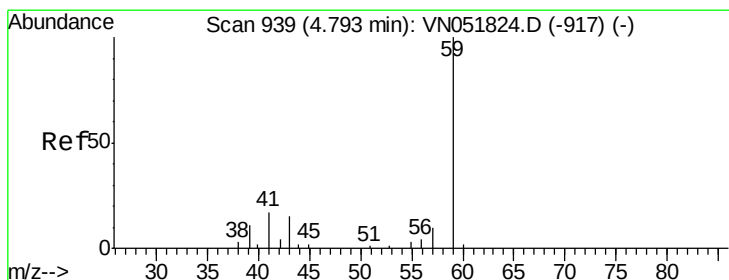
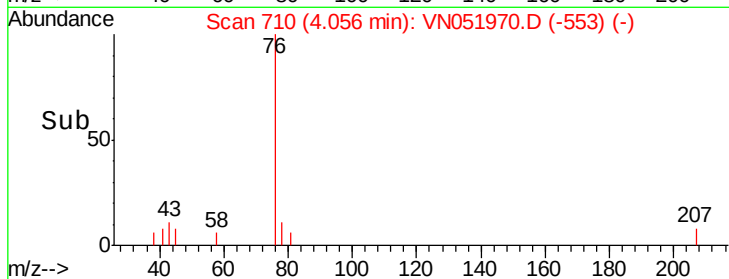
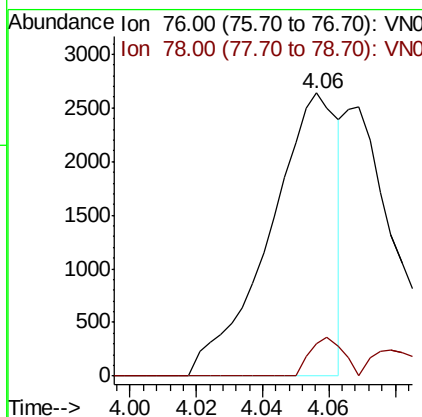
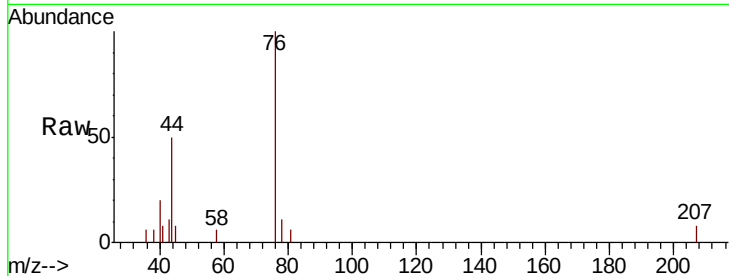




#16
Carbon Disulfide
Concen: 0.204 ug/l
RT: 4.06 min Scan# 710
Delta R.T. 0.00 min
Lab File: VN051970.D
Acq: 23 Oct 2018 18:39

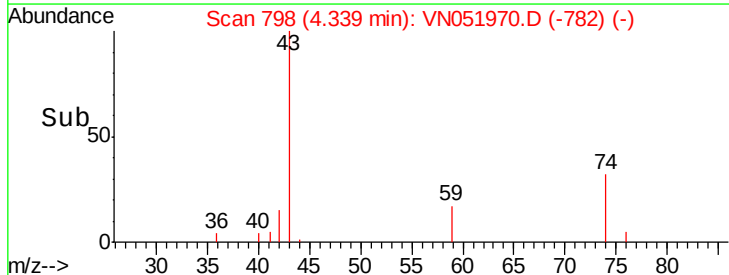
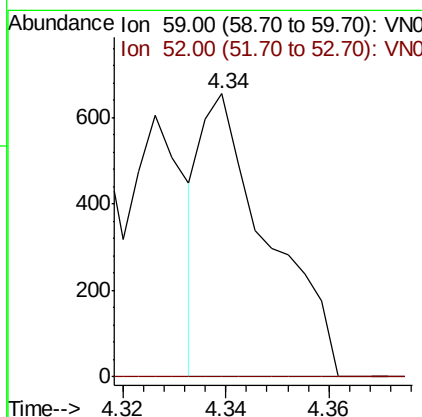
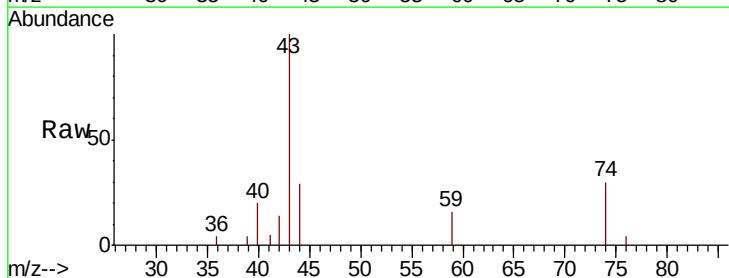
Instrument :
MSVOA_N
ClientSampled :

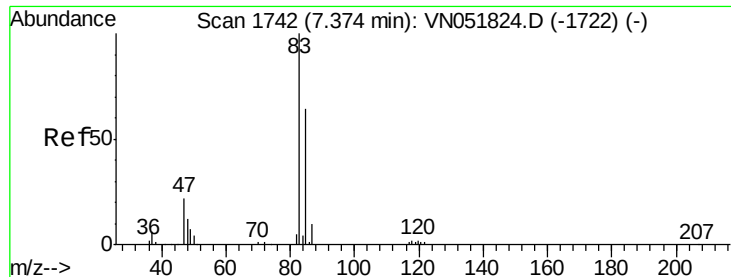
Tot Ion: 76 Resp: 3790
Ion Ratio Lower Upper
76 100
78 11.4 6.7 10.1#



#23
tert-Butyl Alcohol
Concen: 1.148 ug/l
RT: 4.34 min Scan# 798
Delta R.T. -0.45 min
Lab File: VN051970.D
Acq: 23 Oct 2018 18:39

Tgt Ion: 59 Resp: 594
Ion Ratio Lower Upper
59 100
52 0.0 0.0 0.0

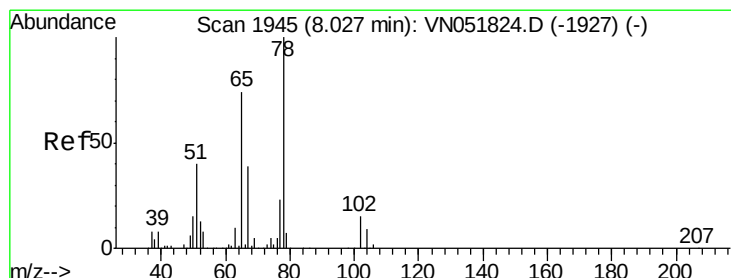
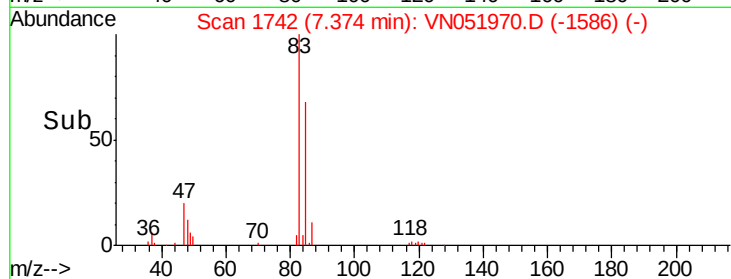
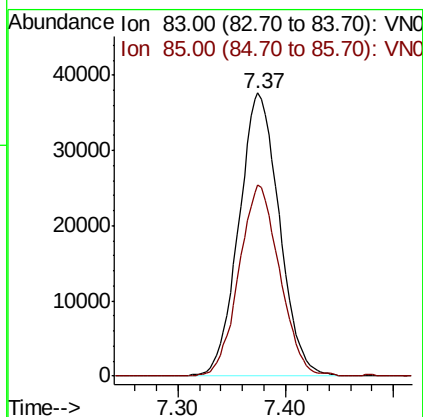
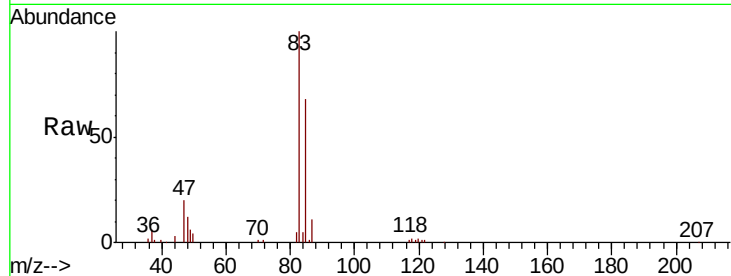




#25
Chloroform
Concen: 6.303 ug/l
RT: 7.37 min Scan# 1742
Delta R.T. 0.00 min
Lab File: VN051970.D
Acq: 23 Oct 2018 18:39

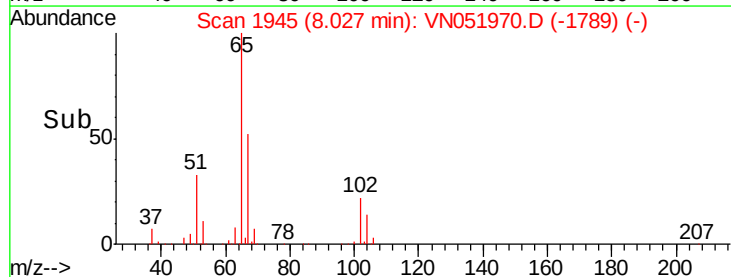
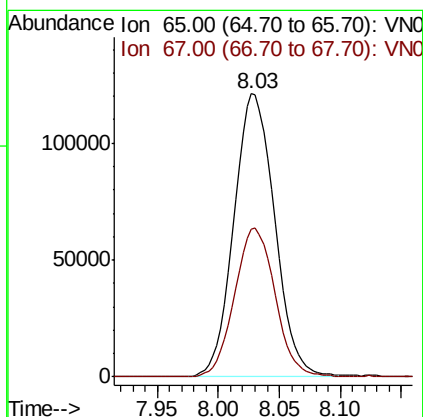
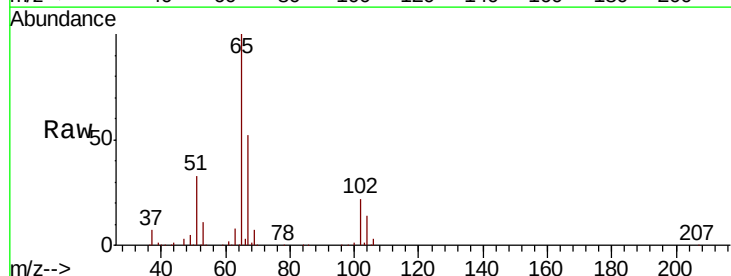
Instrument :
MSVOA_N
ClientSampleId :

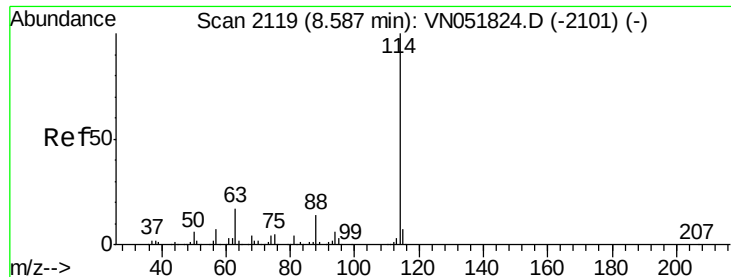
Tot Ion: 83 Resp: 97800
Ion Ratio Lower Upper
83 100
85 67.7 54.6 82.0



#27
1,2-Dichloroethane-d4
Concen: Below ug/l
RT: 8.03 min Scan# 1945
Delta R.T. 0.00 min
Lab File: VN051970.D
Acq: 23 Oct 2018 18:39

Tgt Ion: 65 Resp: 281319
Ion Ratio Lower Upper
65 100
67 52.0 41.8 62.8

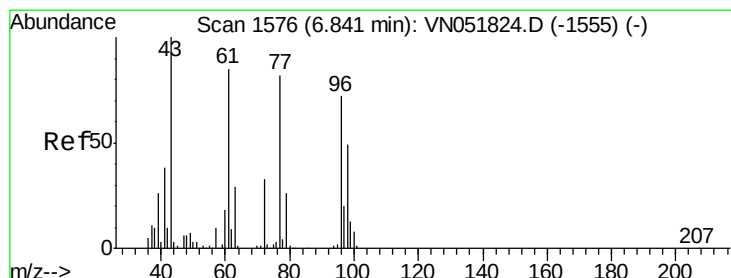
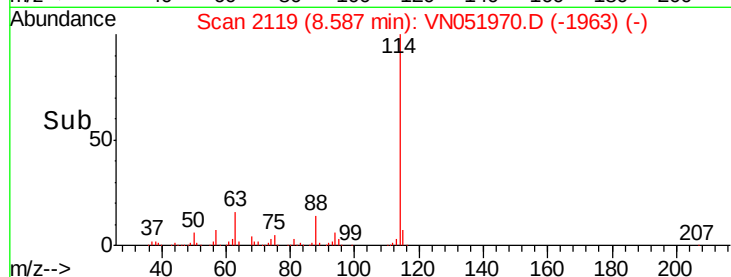
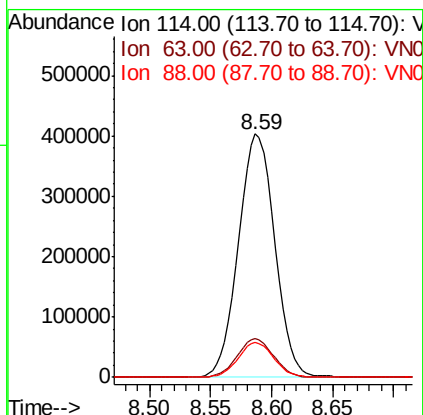
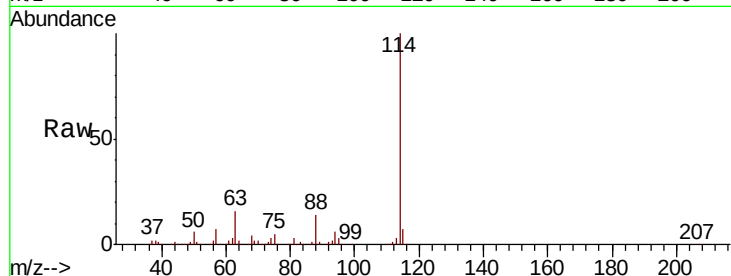




#28
 1,4-Difluorobenzene
 Concen: 30.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. 0.00 min
 Lab File: VN051970.D
 Acq: 23 Oct 2018 18:39

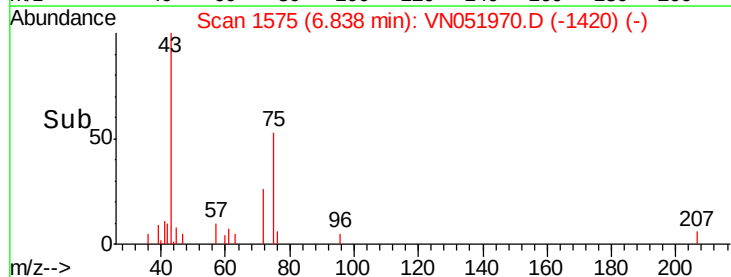
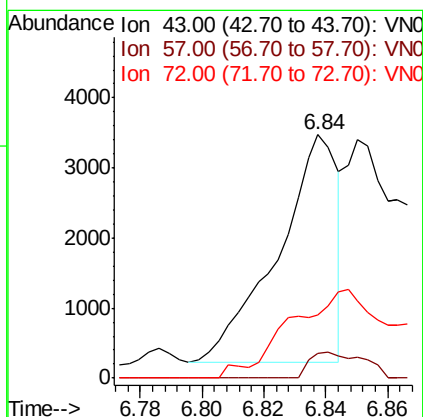
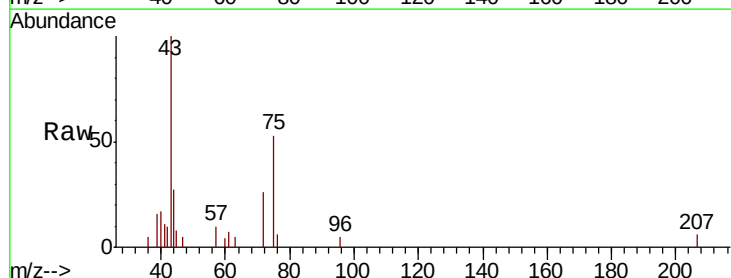
Instrument :
 MSVOA_N
 ClientSampled :

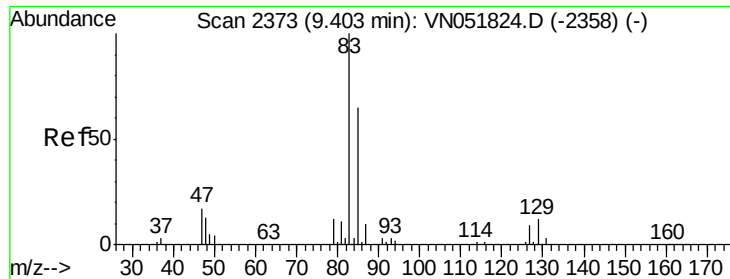
Tot Ion:114 Resp: 829576
 Ion Ratio Lower Upper
 114 100
 63 15.9 16.2 24.2#
 88 14.2 12.2 18.4



#30
 2-Butanone
 Concen: 1.964 ug/l
 RT: 6.84 min Scan# 1575
 Delta R.T. -0.00 min
 Lab File: VN051970.D
 Acq: 23 Oct 2018 18:39

Tgt Ion: 43 Resp: 4390
 Ion Ratio Lower Upper
 43 100
 57 10.2 4.5 6.7#
 72 13.7 21.5 32.3#

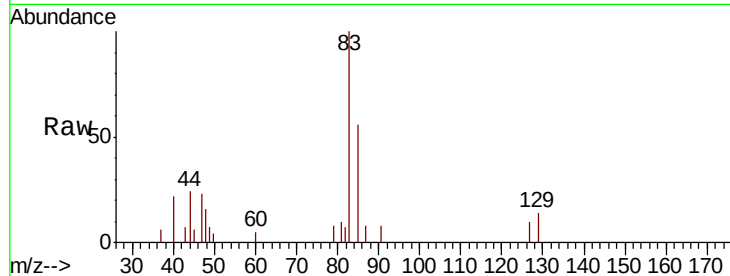




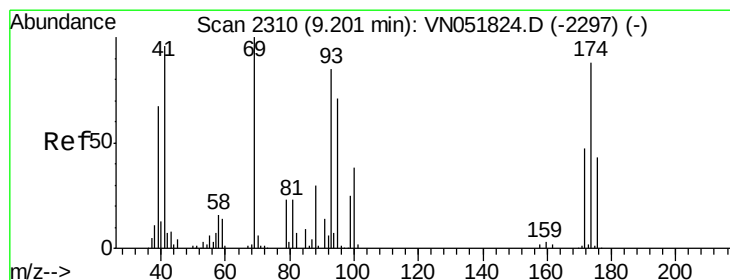
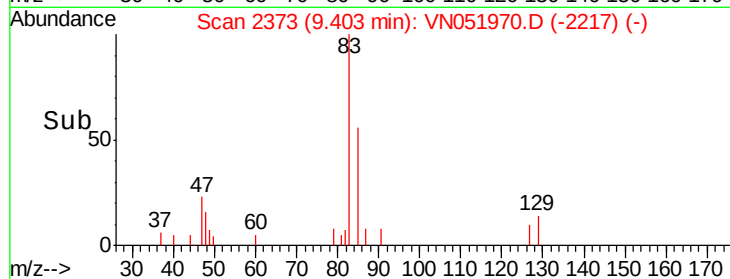
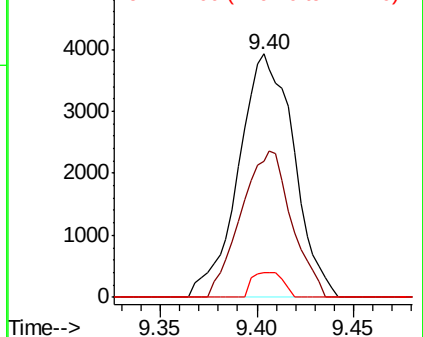
#41
Bromodichloromethane
Concen: 0.682 ug/l
RT: 9.40 min Scan# 2373
Delta R.T. 0.00 min
Lab File: VN051970.D
Acq: 23 Oct 2018 18:39

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion: 83 Resp: 7791
Ion Ratio Lower Upper
83 100
85 56.0 55.7 83.5
127 10.1 8.2 12.4

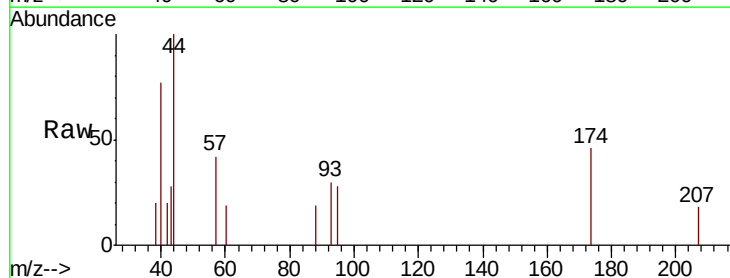


Abundance Ion 83.00 (82.70 to 83.70): VN0
Ion 85.00 (84.70 to 85.70): VN0
Ion 127.00 (126.70 to 127.70): V

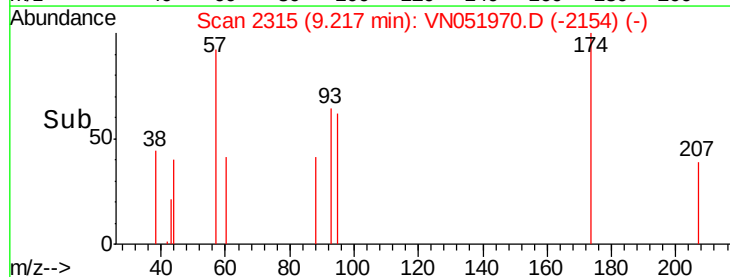
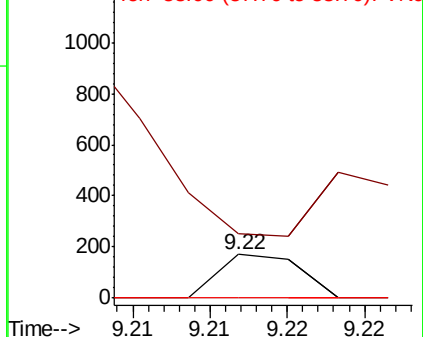


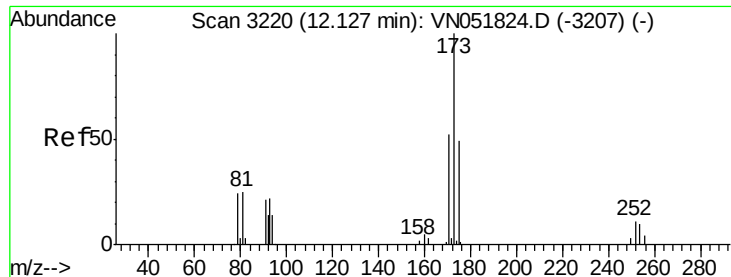
#45
1,4-Dioxane
Concen: 0.797 ug/l
RT: 9.22 min Scan# 2315
Delta R.T. 0.02 min
Lab File: VN051970.D
Acq: 23 Oct 2018 18:39

Tgt Ion: 88 Resp: 62
Ion Ratio Lower Upper
88 100
43 188.7 26.2 39.2#
58 0.0 65.6 98.4#



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





#56

Bromoform

Concen: 0.348 ug/l

RT: 12.41 min Scan# 3307

Delta R.T. 0.28 min

Lab File: VN051970.D

Acq: 23 Oct 2018 18:39

Instrument :

MSVOA_N

ClientSampled :

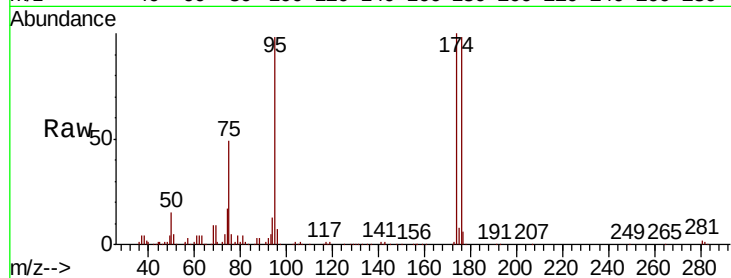
Tot Ion:173 Resp: 2166

Ion Ratio Lower Upper

173 100

175 850.0 35.8 53.8#

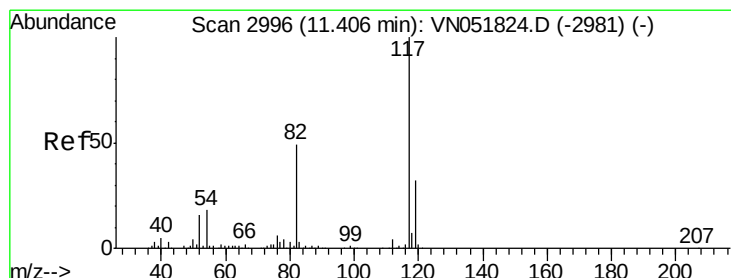
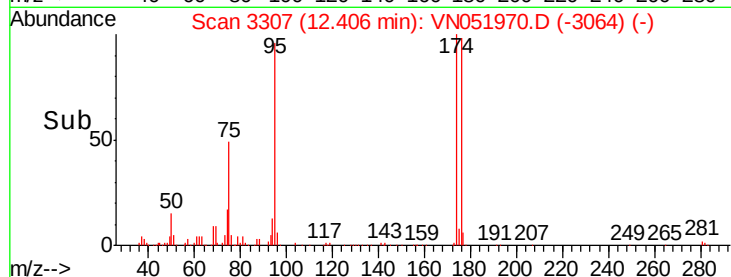
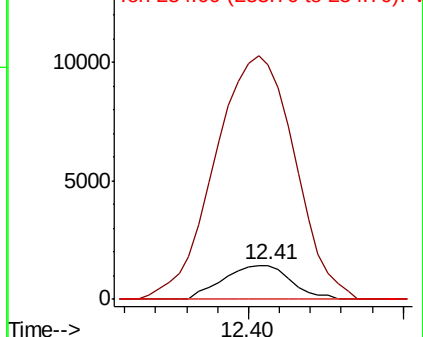
254 0.0 8.6 13.0#



Abundance Ion 173.00 (172.70 to 173.70): V

Ion 175.00 (174.70 to 175.70): V

Ion 254.00 (253.70 to 254.70): V



#57

Chlorobenzene-d5

Concen: 30.000 ug/l

RT: 11.41 min Scan# 2996

Delta R.T. 0.00 min

Lab File: VN051970.D

Acq: 23 Oct 2018 18:39

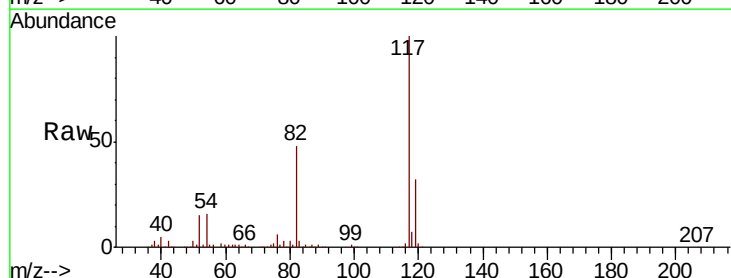
Tgt Ion:117 Resp: 664177

Ion Ratio Lower Upper

117 100

82 48.0 44.1 66.1

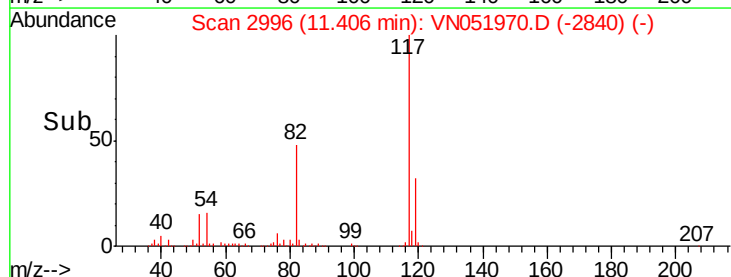
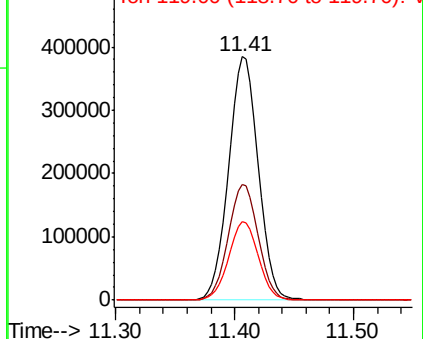
119 32.3 25.8 38.8

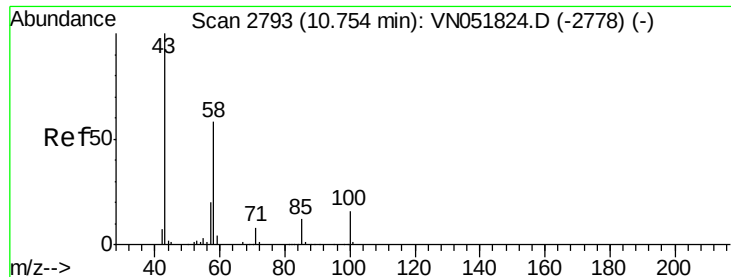


Abundance Ion 117.00 (116.70 to 117.70): V

Ion 82.00 (81.70 to 82.70): V

Ion 119.00 (118.70 to 119.70): V

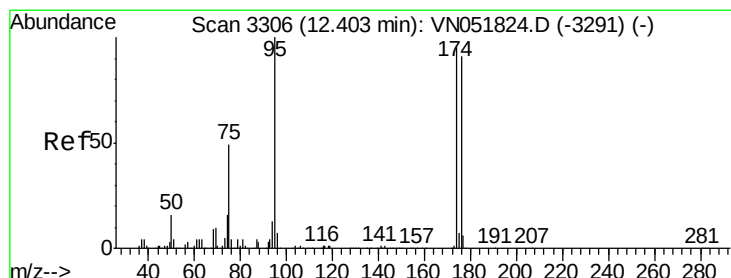
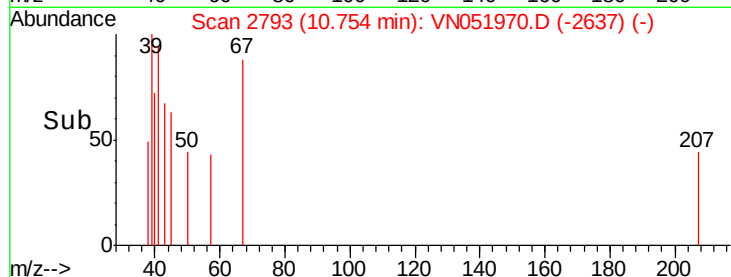
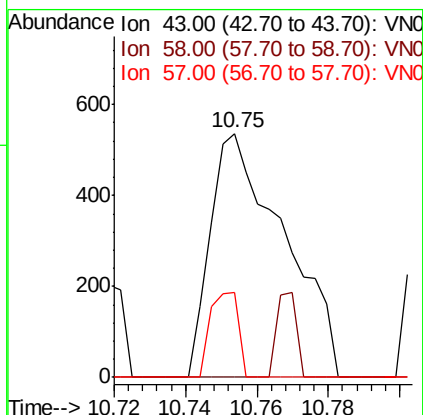
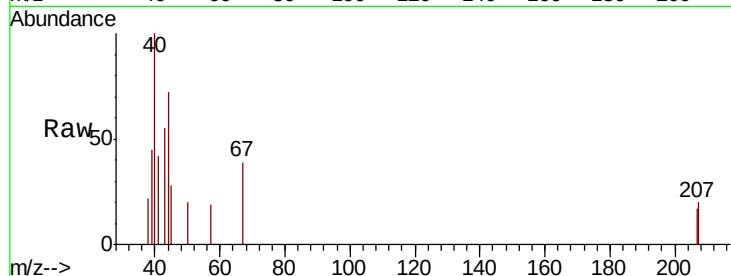




#59
2-Hexanone
Concen: 0.256 ug/l
RT: 10.75 min Scan# 2793
Delta R.T. 0.00 min
Lab File: VN051970.D
Acq: 23 Oct 2018 18:39

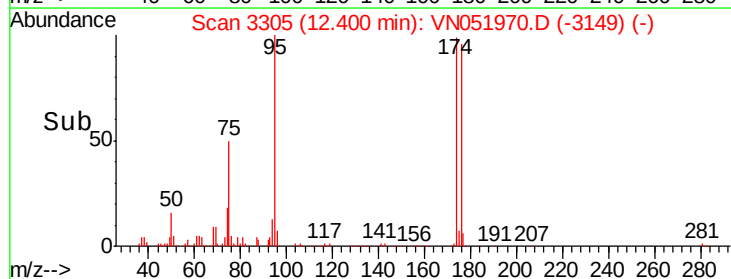
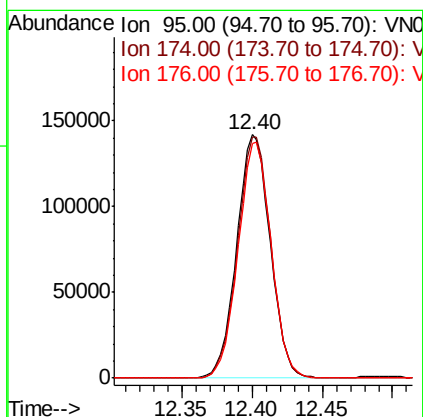
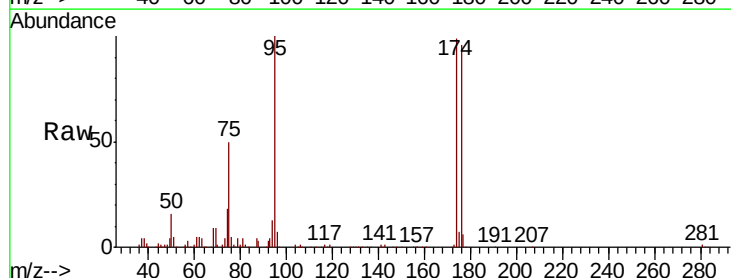
Instrument :
MSVOA_N
ClientSampleId :

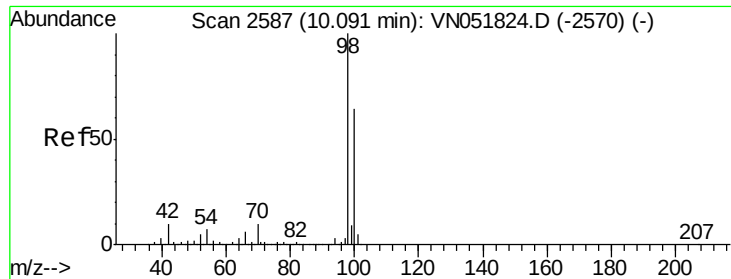
Tot Ion: 43 Resp: 768
Ion Ratio Lower Upper
43 100
58 9.2 41.3 61.9#
57 13.3 13.4 20.0#



#60
4-Bromofluorobenzene
Concen: 0.256 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. 0.00 min
Lab File: VN051970.D
Acq: 23 Oct 2018 18:39

Tgt Ion: 95 Resp: 236225
Ion Ratio Lower Upper
95 100
174 98.6 73.5 110.3
176 95.6 70.2 105.2





#63

Toluene-d8

Concen: Below ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN051970.D

Acq: 23 Oct 2018 18:39

Instrument :

MSVOA_N

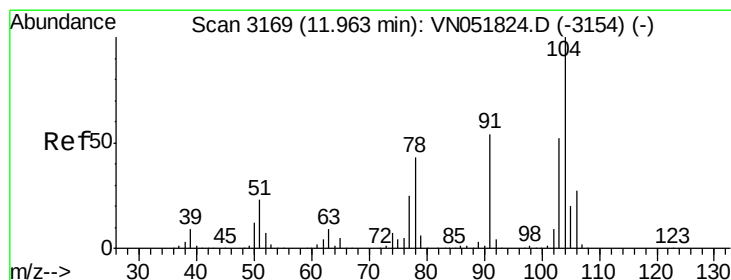
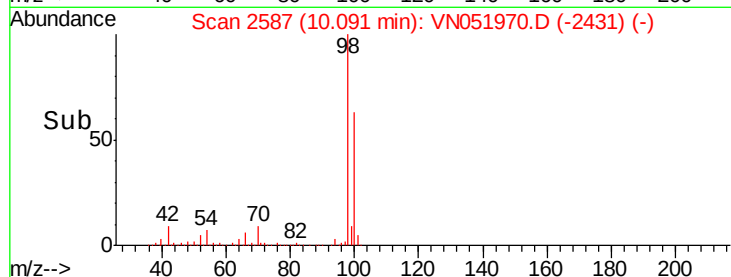
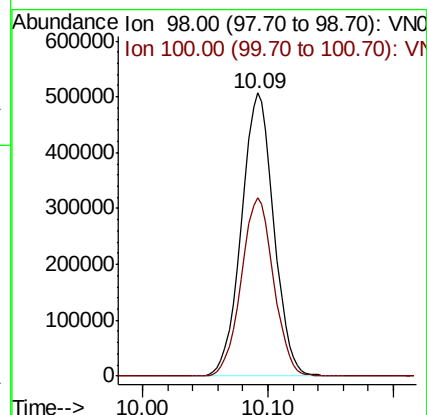
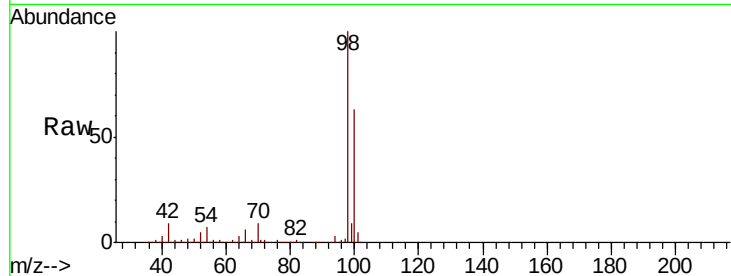
ClientSampled :

Tot Ion: 98 Resp: 906428

Ion Ratio Lower Upper

98 100

100 63.3 50.8 76.2



#69

Styrene

Concen: 0.246 ug/l

RT: 11.96 min Scan# 3169

Delta R.T. 0.00 min

Lab File: VN051970.D

Acq: 23 Oct 2018 18:39

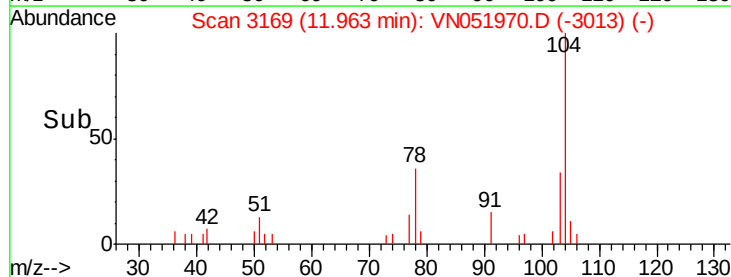
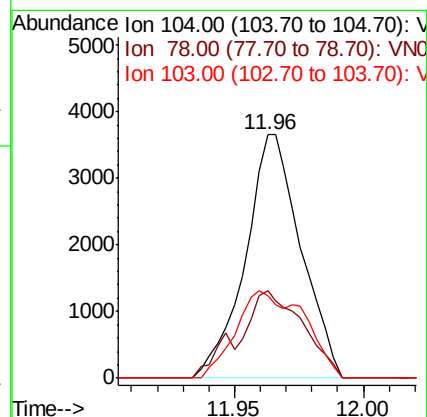
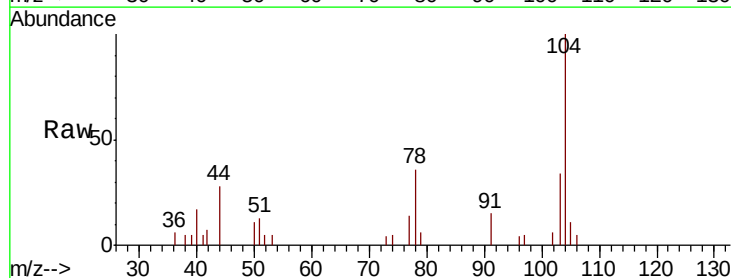
Tgt Ion: 104 Resp: 5492

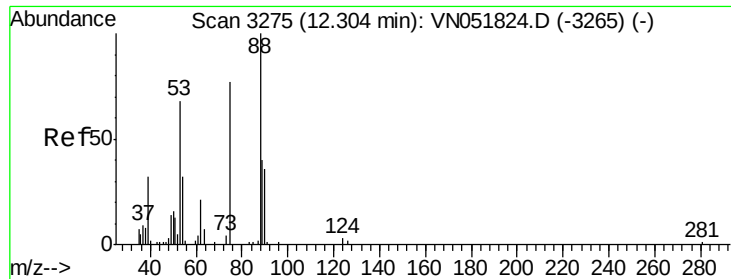
Ion Ratio Lower Upper

104 100

78 34.9 40.6 60.8#

103 29.5 44.0 66.0#





#77

t-1,4-Dichloro-2-butene

Concen: 58.622 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN051970.D

Acq: 23 Oct 2018 18:39

Instrument :

MSVOA_N

ClientSampled :

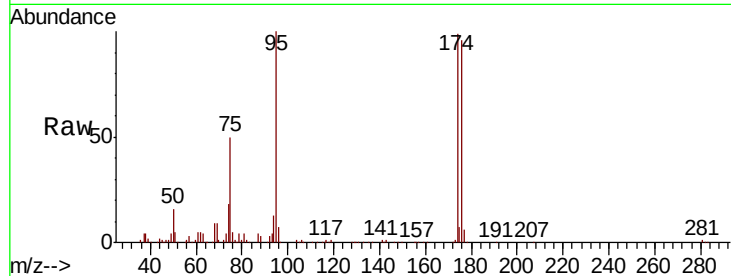
Tot Ion: 75 Resp: 117069

Ion Ratio Lower Upper

75 100

53 0.0 46.3 138.9#

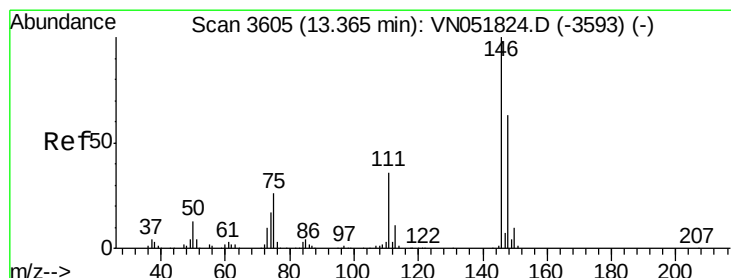
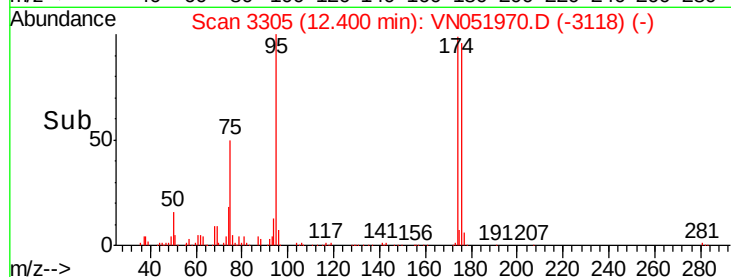
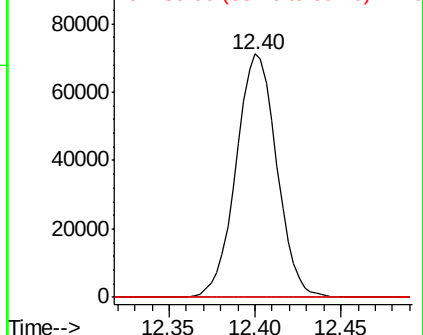
89 0.0 24.6 73.8#



Abundance Ion 75.00 (74.70 to 75.70): VN051970.D (-3305) (-)

Ion 53.00 (52.70 to 53.70): VN051970.D (-3305) (-)

Ion 89.00 (88.70 to 89.70): VN051970.D (-3305) (-)



#84

1,4-Dichlorobenzene

Concen: 0.202 ug/l

RT: 13.36 min Scan# 3605

Delta R.T. 0.00 min

Lab File: VN051970.D

Acq: 23 Oct 2018 18:39

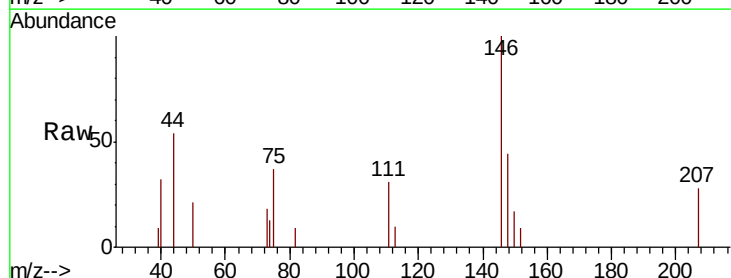
Tgt Ion: 146 Resp: 3237

Ion Ratio Lower Upper

146 100

111 23.1 17.4 52.2

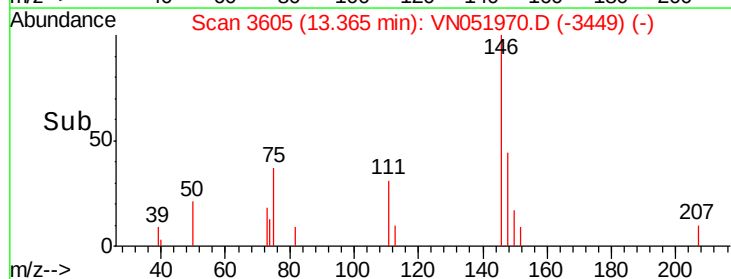
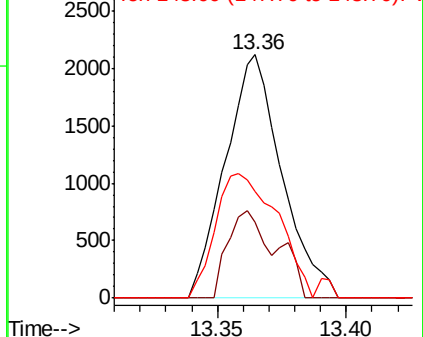
148 56.0 32.8 98.3

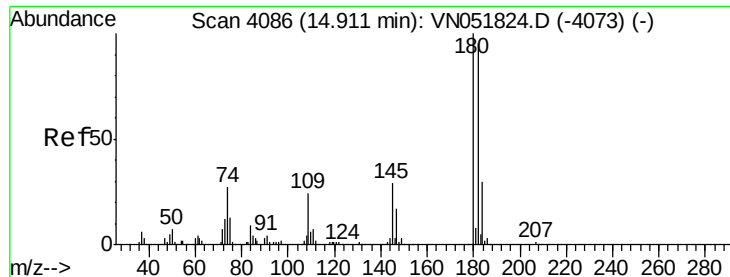


Abundance Ion 146.00 (145.70 to 146.70): VN051970.D (-3605) (-)

Ion 111.00 (110.70 to 111.70): VN051970.D (-3605) (-)

Ion 148.00 (147.70 to 148.70): VN051970.D (-3605) (-)

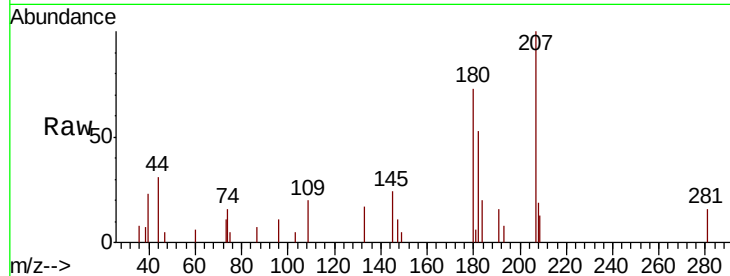




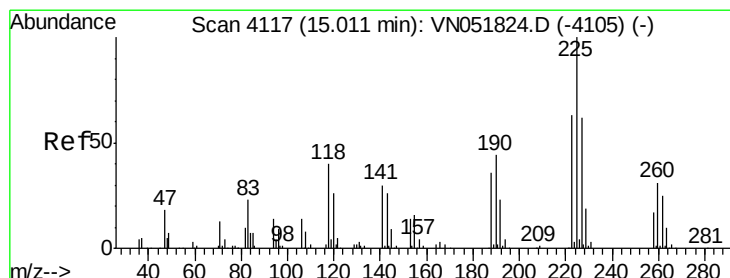
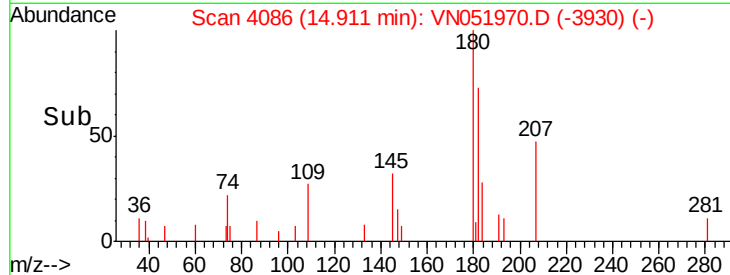
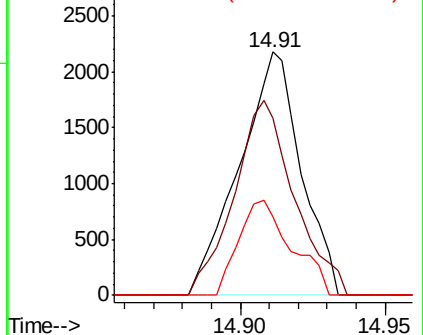
#89
 1,2,4-Trichlorobenzene
 Concen: 8.024 ug/l
 RT: 14.91 min Scan# 4086
 Delta R.T. 0.00 min
 Lab File: VN051970.D
 Acq: 23 Oct 2018 18:39

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion:180 Resp: 3218
 Ion Ratio Lower Upper
 180 100
 182 77.9 77.7 116.5
 145 33.4 23.4 35.2

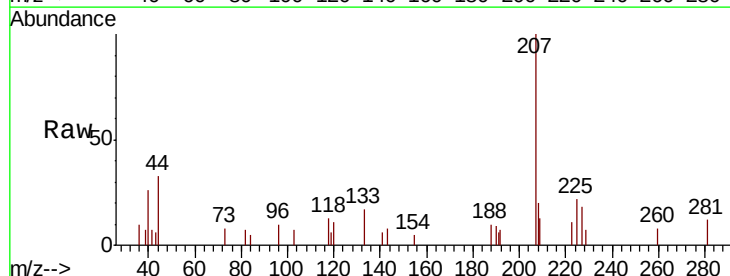


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 145.00 (144.70 to 145.70): V

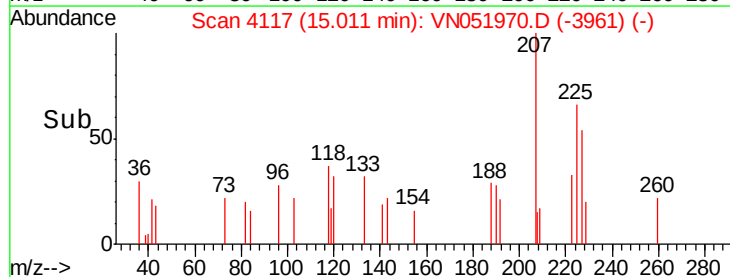
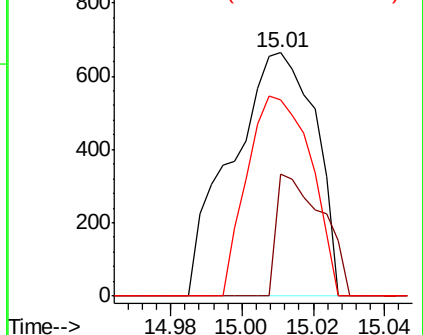


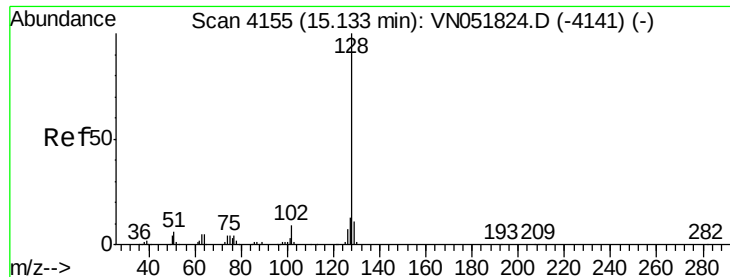
#90
 Hexachlorobutadiene
 Concen: 0.203 ug/l
 RT: 15.01 min Scan# 4117
 Delta R.T. 0.00 min
 Lab File: VN051970.D
 Acq: 23 Oct 2018 18:39

Tgt Ion:225 Resp: 1075
 Ion Ratio Lower Upper
 225 100
 223 27.4 0.0 117.0
 227 62.8 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: 8.811 ug/l

RT: 15.14 min Scan# 4156

Delta R.T. 0.00 min

Lab File: VN051970.D

Acq: 23 Oct 2018 18:39

Instrument :

MSVOA_N

ClientSampleId :

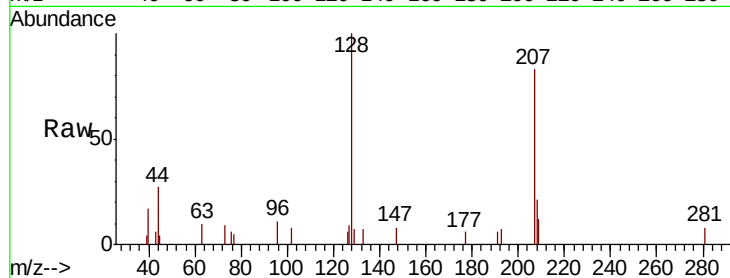
Tot Ion:128 Resp: 6229

Ion Ratio Lower Upper

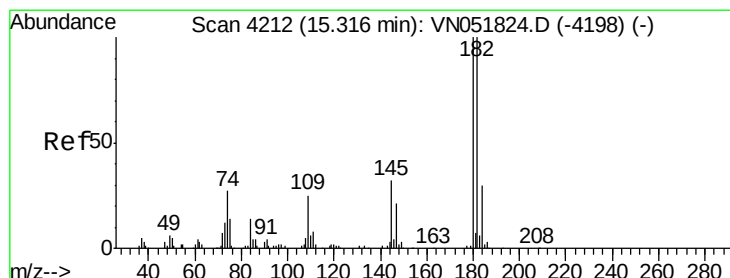
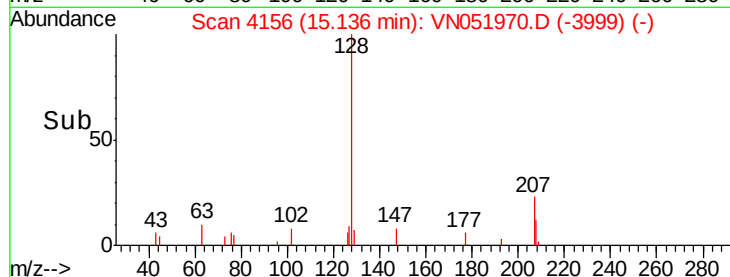
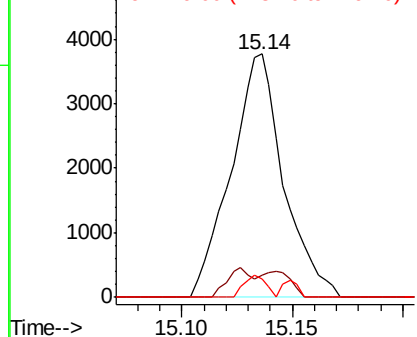
128 100

127 5.8 10.1 15.1#

129 3.8 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: 0.440 ug/l

RT: 15.31 min Scan# 4211

Delta R.T. 0.00 min

Lab File: VN051970.D

Acq: 23 Oct 2018 18:39

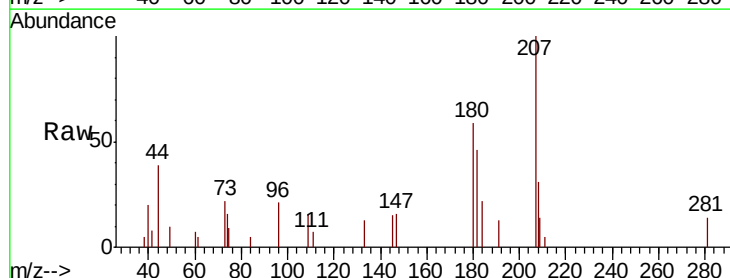
Tgt Ion:180 Resp: 3292

Ion Ratio Lower Upper

180 100

182 87.1 0.0 198.0

145 5.8 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

