

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN091918\
 Data File : VN051315.D
 Acq On : 19 Sep 2018 13:36
 Operator : MD\SY
 Sample : J4921-01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Sep 19 16:08:01 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N082818W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Aug 29 01:38:44 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.20	128	91458	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.59	114	470337	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	375892	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.03	65	170723	29.25	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	97.50%
60) 4-Bromofluorobenzene	12.40	95	109426	19.58	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	65.27%
63) Toluene-d8	10.09	98	525714	29.99	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	99.97%

Target Compounds

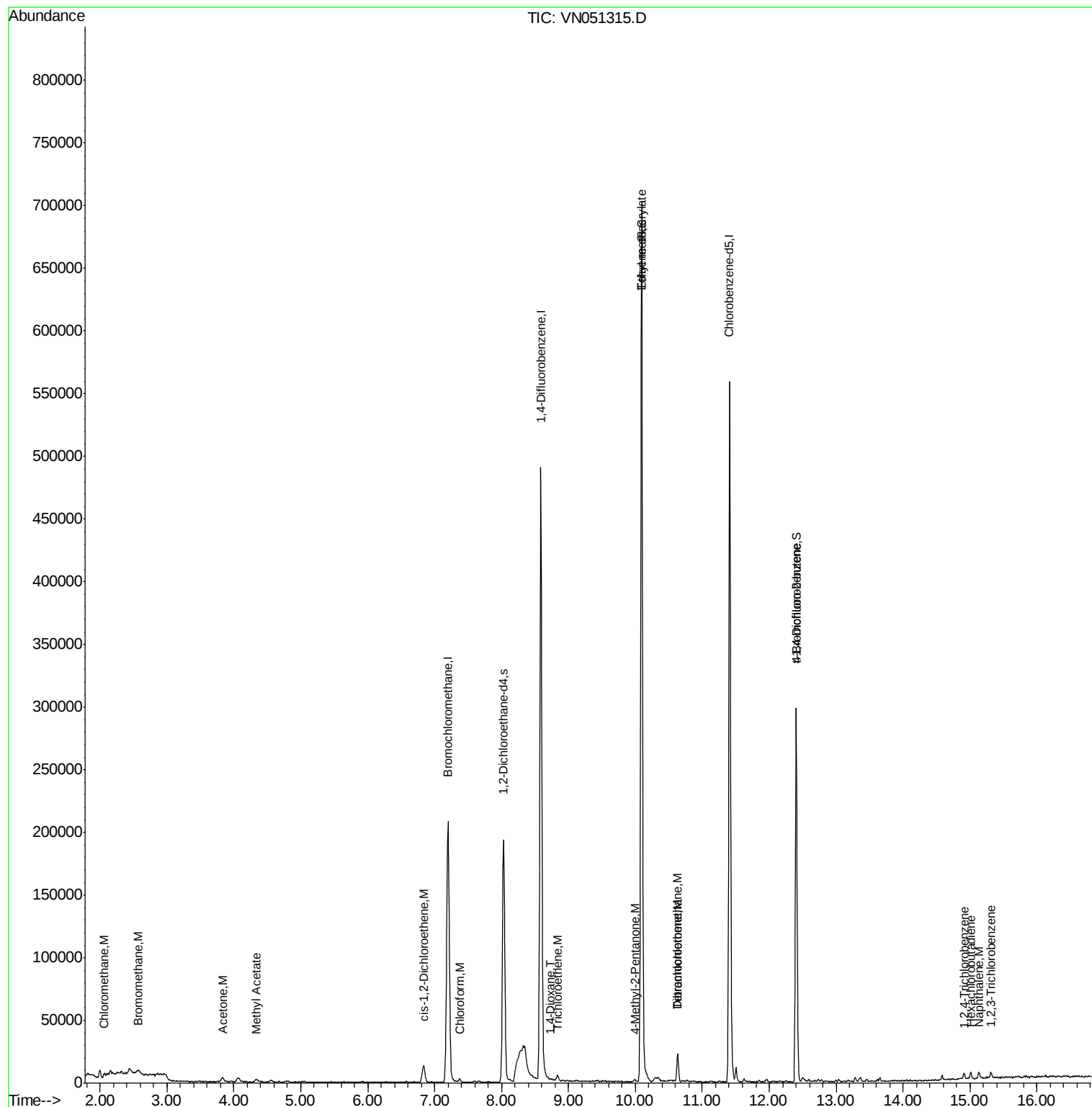
					Ovalue	
3) Chloromethane	2.06	50	2274	0.339	ug/l	# 79
5) Bromomethane	2.57	94	2101	0.520	ug/l	96
12) Methyl Acetate	4.34	43	4407	0.771	ug/l	# 88
15) Acetone	3.82	58	1223	2.474	ug/l	# 65
22) cis-1,2-Dichloroethene	6.83	96	9295	1.563	ug/l	# 43
25) Chloroform	7.37	83	2546	0.258	ug/l	93
37) Trichloroethene	8.83	130	1583	0.278	ug/l	96
45) 1,4-Dioxane	8.73	88	62	1.066	ug/l	# 1
51) Ethyl methacrylate	10.10	69	1715	0.281	ug/l	# 81
53) Dibromochloromethane	10.63	129	4588	0.810	ug/l	# 10
58) 4-Methyl-2-Pentanone	9.99	43	1221	0.284	ug/l	# 89
61) Tetrachloroethene	10.63	164	5686	1.214	ug/l	92
77) t-1,4-Dichloro-2-butene	12.40	75	49734	35.218	ug/l	# 13
89) 1,2,4-Trichlorobenzene	14.91	180	1816	0.439	ug/l	83
90) Hexachlorobutadiene	15.01	225	1745	0.621	ug/l	87
91) Naphthalene	15.13	128	2404	8.765	ug/l	# 86
92) 1,2,3-Trichlorobenzene	15.31	180	2319	0.559	ug/l	91

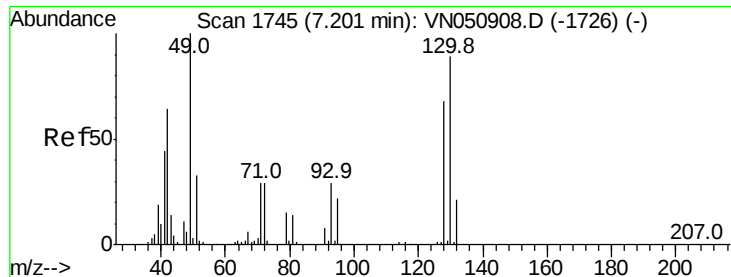
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Bromochloromethane

Concen: 30.000 ug/l

RT: 7.20 min Scan# 1688

Delta R.T. 0.00 min

Lab File: VN051315.D

Acq: 19 Sep 2018 13:36

Instrument :

MSVOA_N

ClientSampleId :

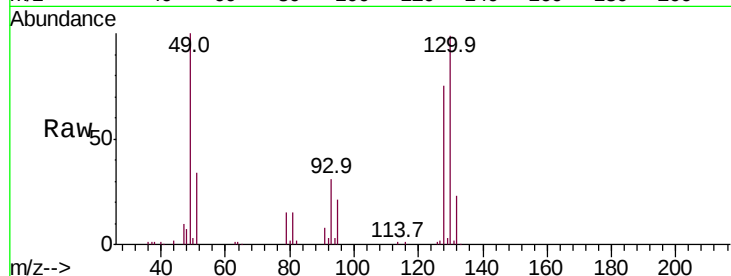
Tot Ion:128 Resp: 91458

Ion Ratio Lower Upper

128 100

49 137.0 0.0 380.3

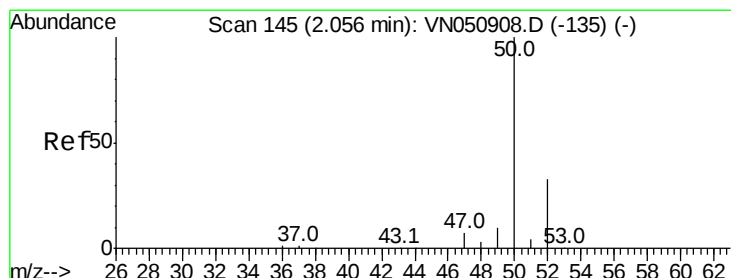
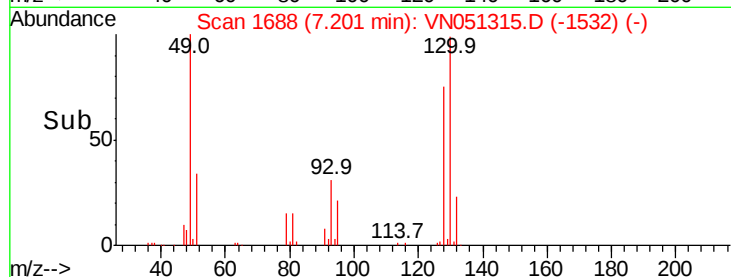
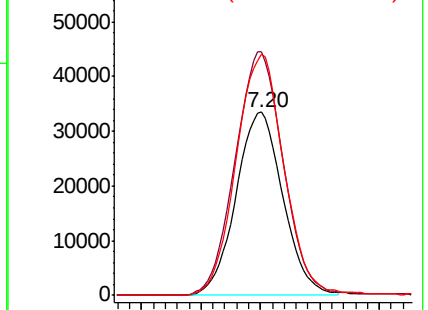
130 134.1 0.0 325.3



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



#3

Chloromethane

Concen: 0.339 ug/l

RT: 2.06 min Scan# 89

Delta R.T. 0.00 min

Lab File: VN051315.D

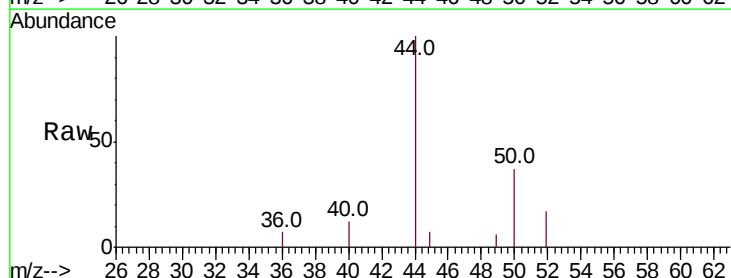
Acq: 19 Sep 2018 13:36

Tgt Ion: 50 Resp: 2274

Ion Ratio Lower Upper

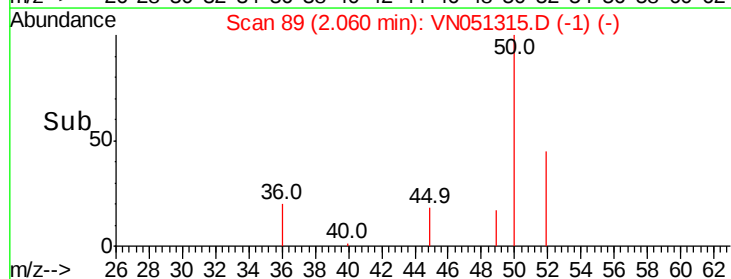
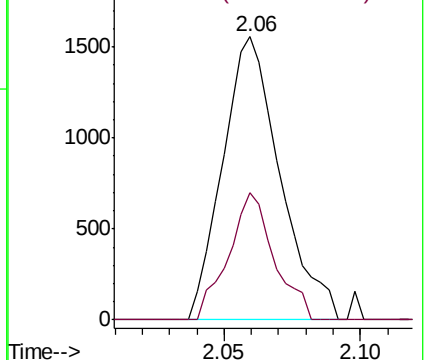
50 100

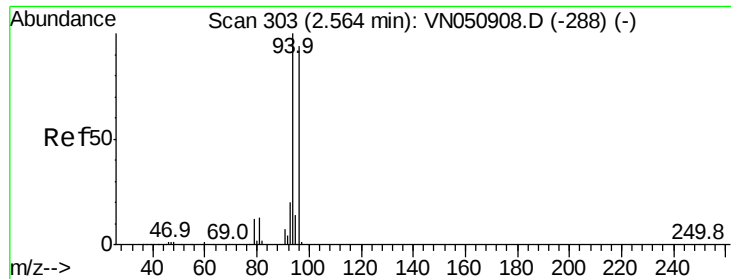
52 44.8 26.2 39.4#



Abundance Ion 50.00 (49.70 to 50.70): VNO

Ion 52.00 (51.70 to 52.70): VNO





#5

Bromomethane

Concen: 0.520 ug/l

RT: 2.57 min Scan# 248

Delta R.T. 0.01 min

Lab File: VN051315.D

Acq: 19 Sep 2018 13:36

Instrument :

MSVOA_N

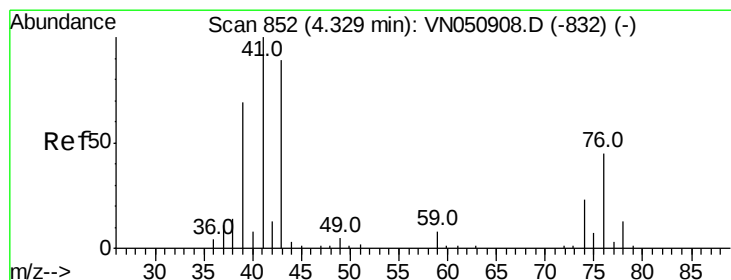
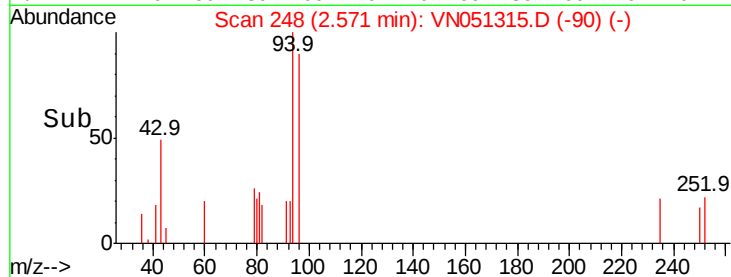
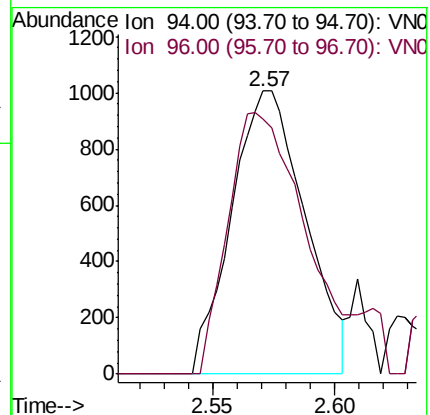
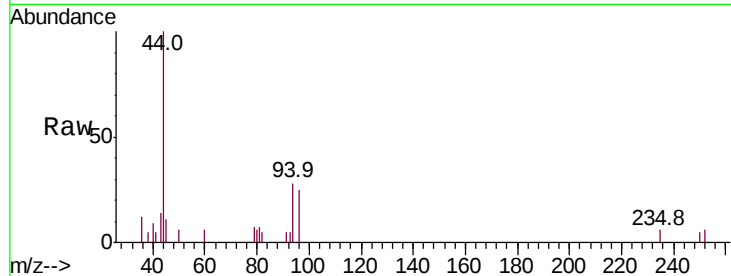
ClientSampled :

Tot Ion: 94 Resp: 2101

Ion Ratio Lower Upper

94 100

96 90.2 74.9 112.3



#12

Methyl Acetate

Concen: 0.771 ug/l

RT: 4.34 min Scan# 798

Delta R.T. 0.01 min

Lab File: VN051315.D

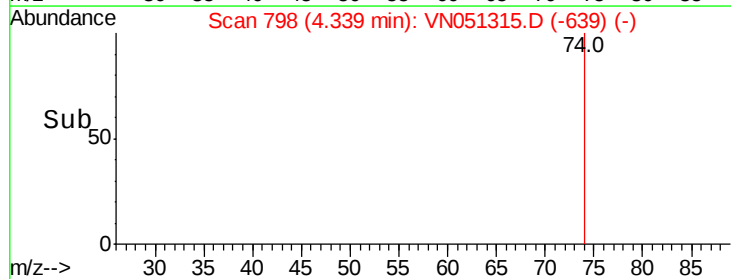
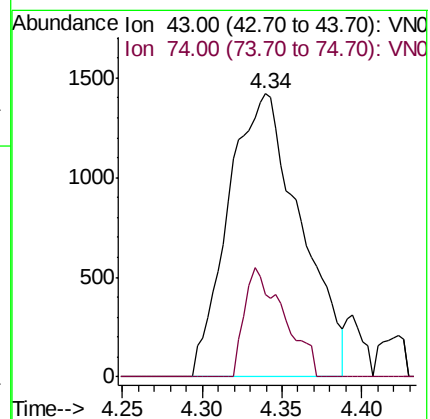
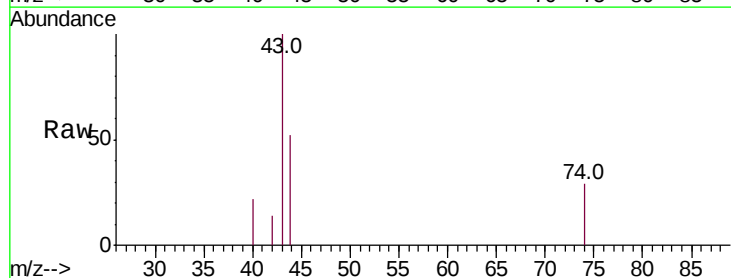
Acq: 19 Sep 2018 13:36

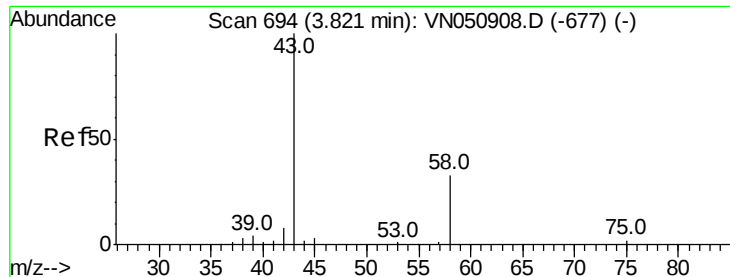
Tgt Ion: 43 Resp: 4407

Ion Ratio Lower Upper

43 100

74 31.7 20.6 31.0#





#15

Acetone

Concen: 2.474 ug/l

RT: 3.82 min Scan# 638

Delta R.T. 0.00 min

Lab File: VN051315.D

Acq: 19 Sep 2018 13:36

Instrument :

MSVOA_N

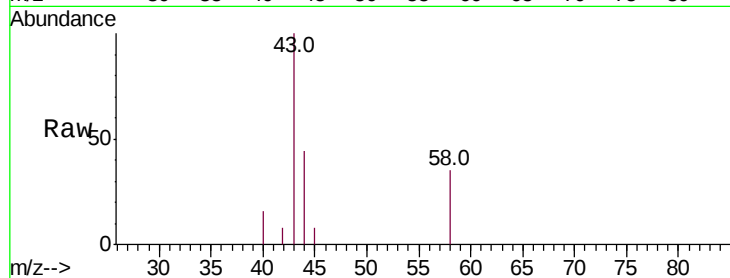
ClientSampled :

Tot Ion: 58 Resp: 1223

Ion Ratio Lower Upper

58 100

43 230.5 239.4 359.0#



Abundance Ion 58.00 (57.70 to 58.70): VN050908.D (-677) (-)

Ion 43.00 (42.70 to 43.70): VN050908.D (-677) (-)

2500

2000

1500

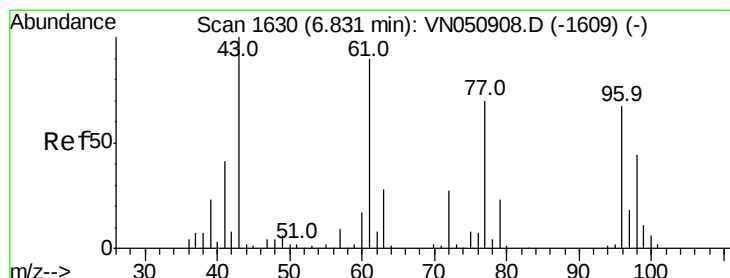
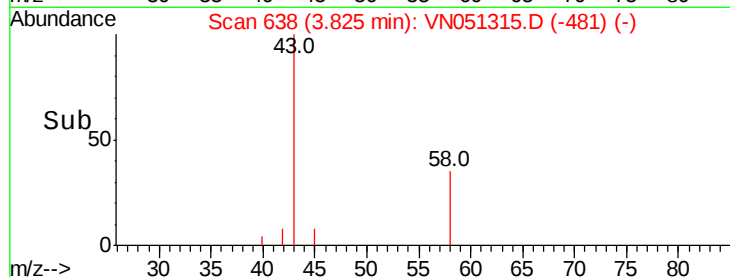
1000

500

0

3.78 3.80 3.82 3.84

Time-->



#22

cis-1,2-Dichloroethene

Concen: 1.563 ug/l

RT: 6.83 min Scan# 1573

Delta R.T. 0.00 min

Lab File: VN051315.D

Acq: 19 Sep 2018 13:36

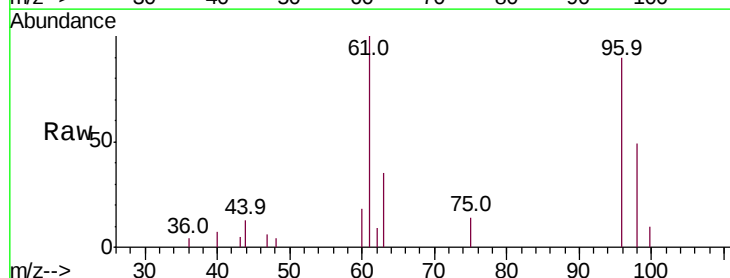
Tgt Ion: 96 Resp: 9295

Ion Ratio Lower Upper

96 100

61 55.0 110.0 165.0#

98 40.0 51.7 77.5#



Abundance Ion 96.00 (95.70 to 96.70): VN050908.D (-1609) (-)

Ion 61.00 (60.70 to 61.70): VN050908.D (-1609) (-)

Ion 98.00 (97.70 to 98.70): VN050908.D (-1609) (-)

5000

4000

3000

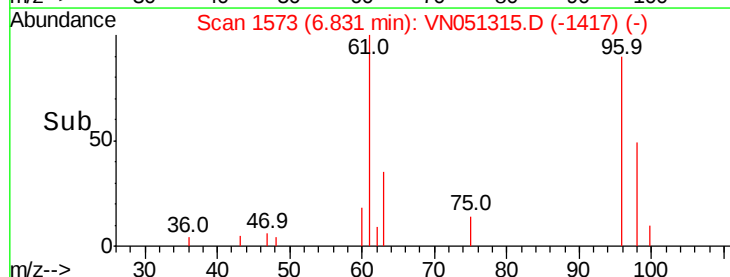
2000

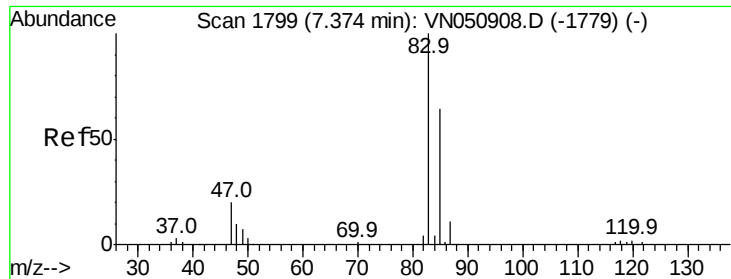
1000

0

6.75 6.80 6.85 6.90

Time-->

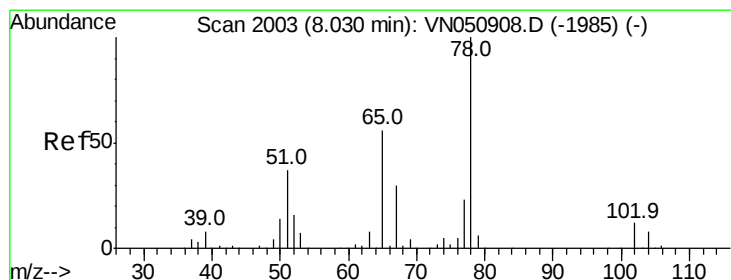
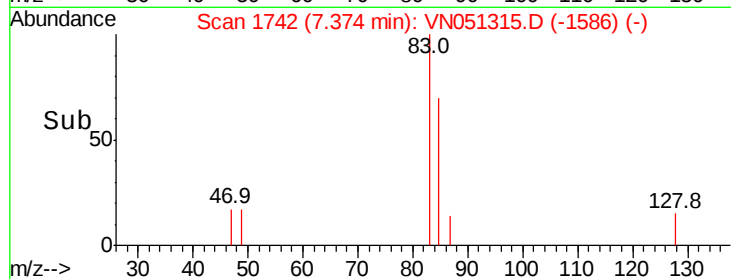
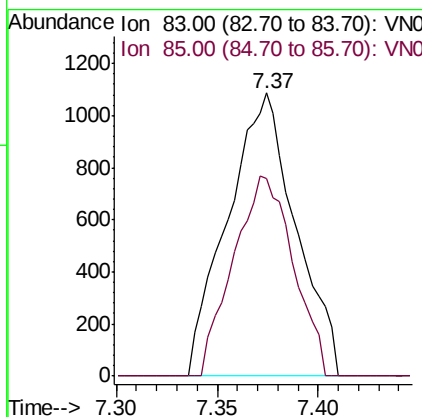
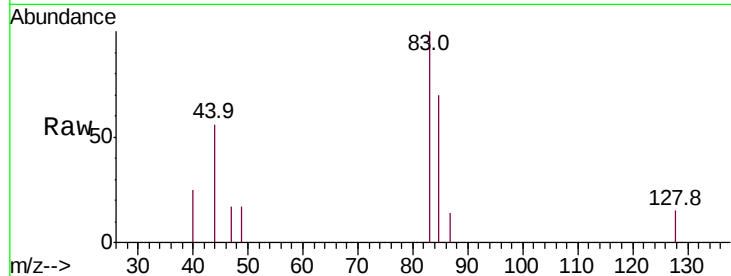




#25
Chloroform
Concen: 0.258 ug/l
RT: 7.37 min Scan# 1742
Delta R.T. 0.00 min
Lab File: VN051315.D
Acq: 19 Sep 2018 13:36

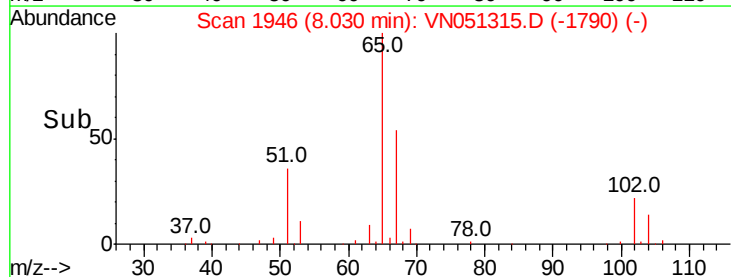
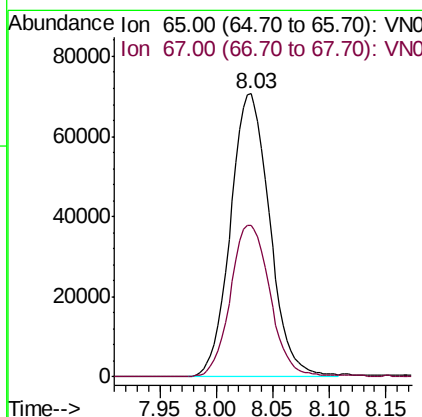
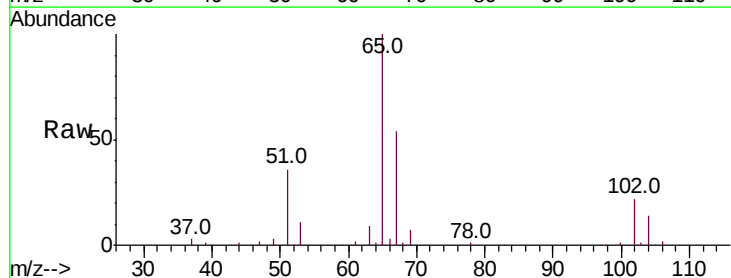
Instrument :
MSVOA_N
ClientSampled :

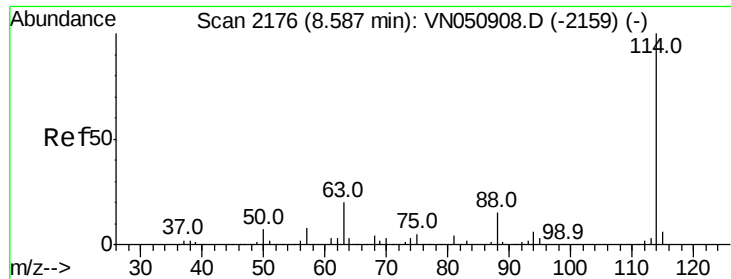
Tot Ion: 83 Resp: 2546
Ion Ratio Lower Upper
83 100
85 69.8 51.4 77.0



#27
1,2-Dichloroethane-d4
Concen: 29.252 ug/l
RT: 8.03 min Scan# 1946
Delta R.T. 0.00 min
Lab File: VN051315.D
Acq: 19 Sep 2018 13:36

Tgt Ion: 65 Resp: 170723
Ion Ratio Lower Upper
65 100
67 54.2 43.7 65.5

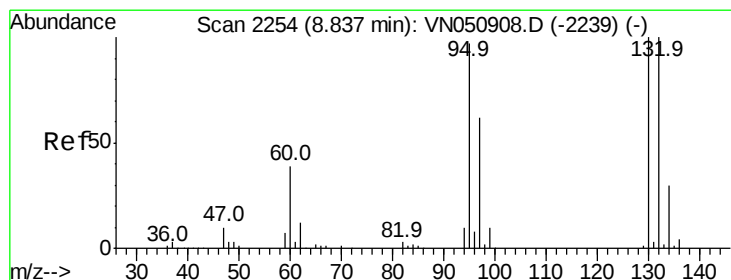
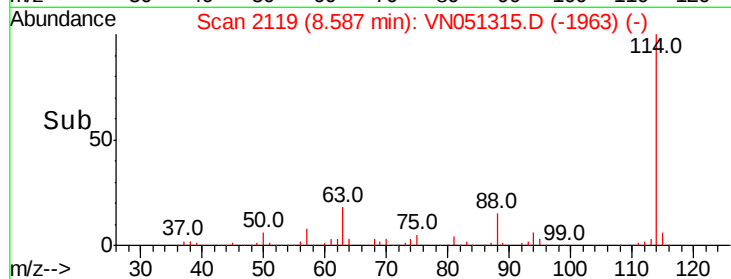
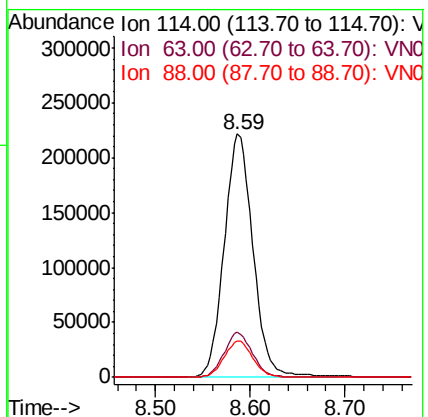
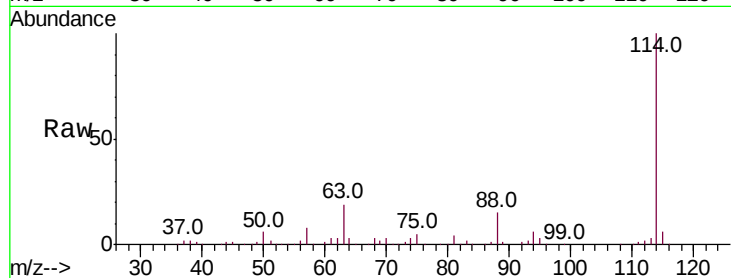




#28
 1,4-Difluorobenzene
 Concen: 30.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. 0.00 min
 Lab File: VN051315.D
 Acq: 19 Sep 2018 13:36

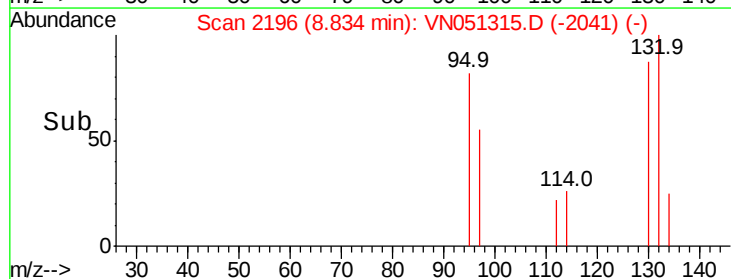
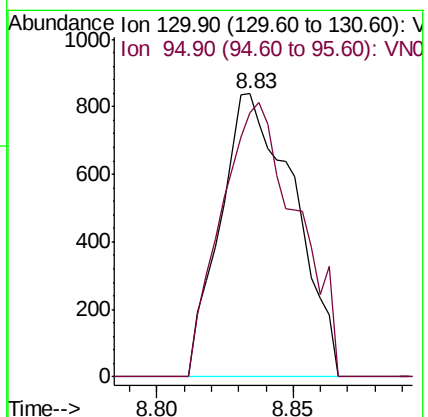
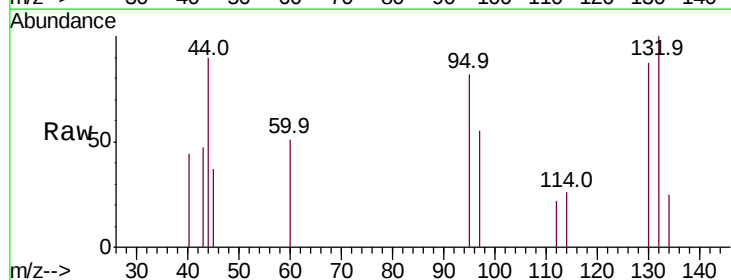
Instrument :
 MSVOA_N
 ClientSampled :

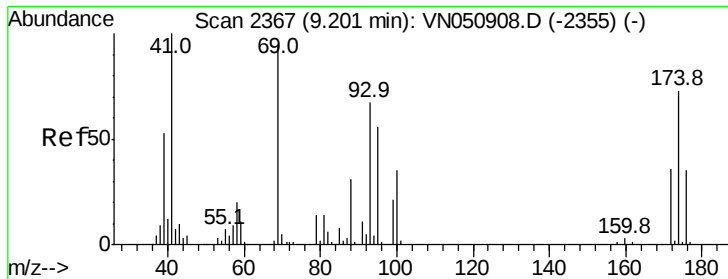
Tot Ion:114 Resp: 470337
 Ion Ratio Lower Upper
 114 100
 63 18.1 15.6 23.4
 88 14.8 12.2 18.4



#37
 Trichloroethene
 Concen: 0.278 ug/l
 RT: 8.83 min Scan# 2196
 Delta R.T. -0.00 min
 Lab File: VN051315.D
 Acq: 19 Sep 2018 13:36

Tgt Ion:130 Resp: 1583
 Ion Ratio Lower Upper
 130 100
 95 93.2 77.4 116.0





#45

1,4-Dioxane

Concen: 1.066 ug/l

RT: 8.73 min Scan# 2163

Delta R.T. -0.47 min

Lab File: VN051315.D

Acq: 19 Sep 2018 13:36

Instrument :
MSVOA_N
ClientSampled :

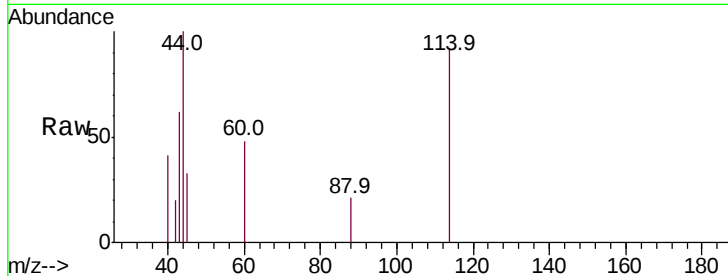
Tot Ion: 88 Resp: 62

Ion Ratio Lower Upper

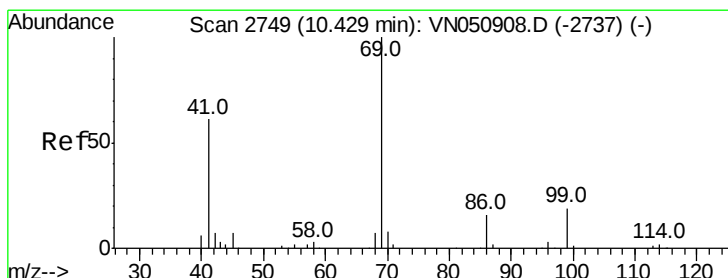
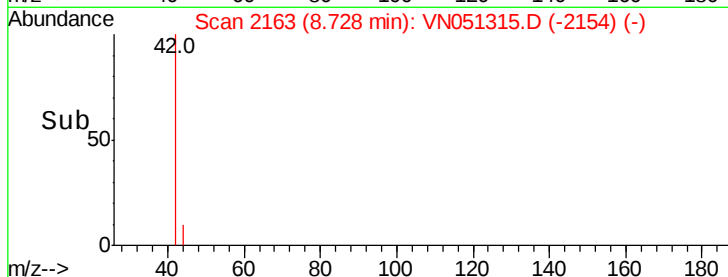
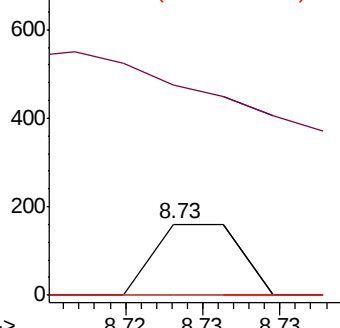
88 100

43 201.6 23.5 35.3#

58 0.0 55.2 82.8#



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



#51

Ethyl methacrylate

Concen: 0.281 ug/l

RT: 10.10 min Scan# 2589

Delta R.T. -0.33 min

Lab File: VN051315.D

Acq: 19 Sep 2018 13:36

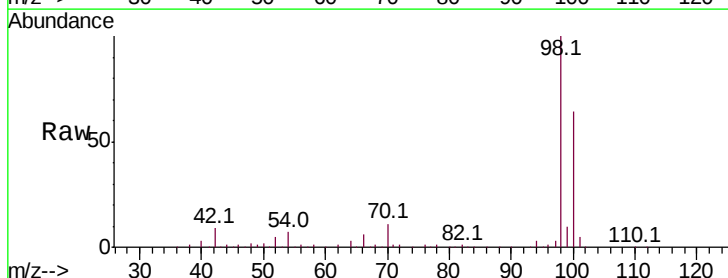
Tgt Ion: 69 Resp: 1715

Ion Ratio Lower Upper

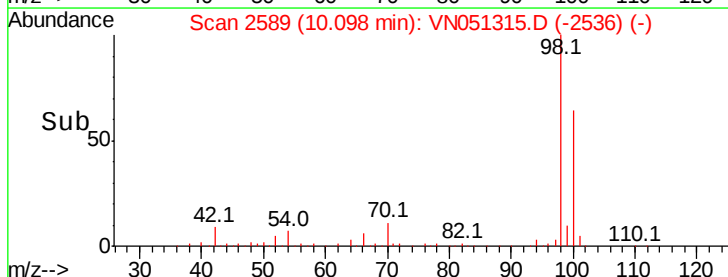
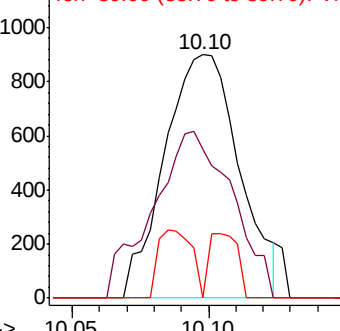
69 100

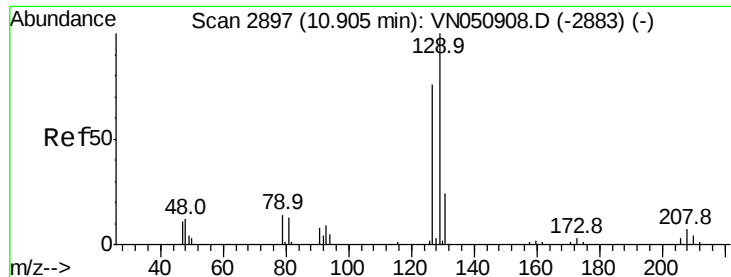
41 61.3 30.5 91.5

39 0.0 15.3 45.8#



Abundance Ion 69.00 (68.70 to 69.70): VNO
Ion 41.00 (40.70 to 41.70): VNO
Ion 39.00 (38.70 to 39.70): VNO

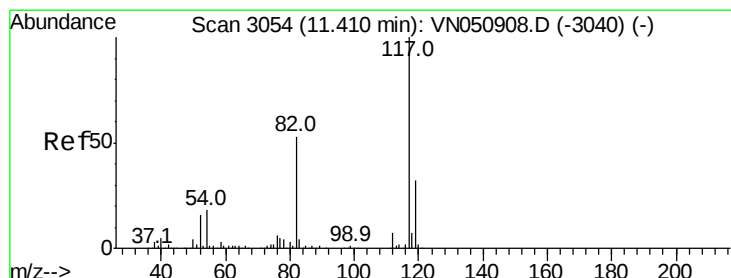
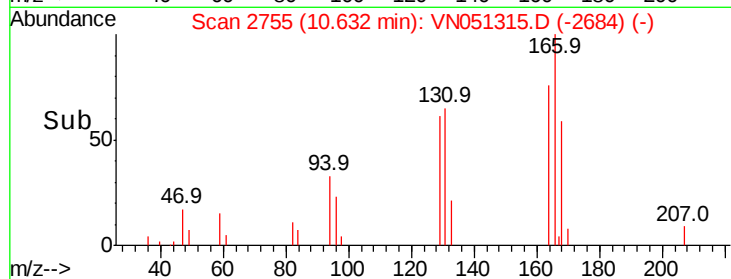
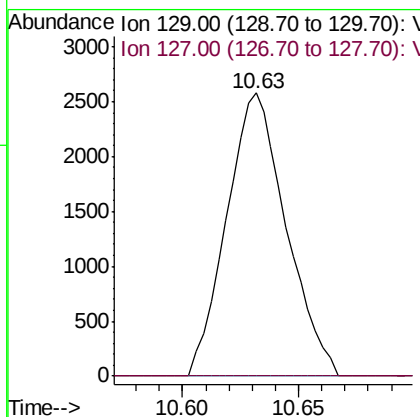
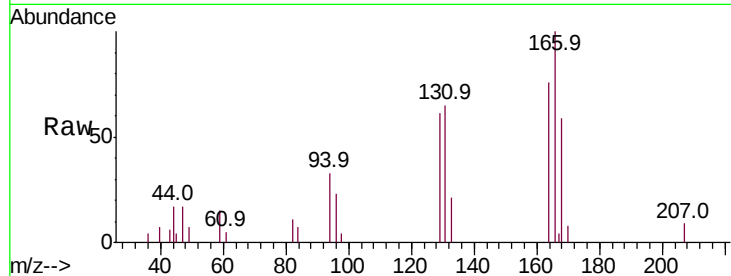




#53
Dibromochloromethane
Concen: 0.810 ug/l
RT: 10.63 min Scan# 2755
Delta R.T. -0.27 min
Lab File: VN051315.D
Acq: 19 Sep 2018 13:36

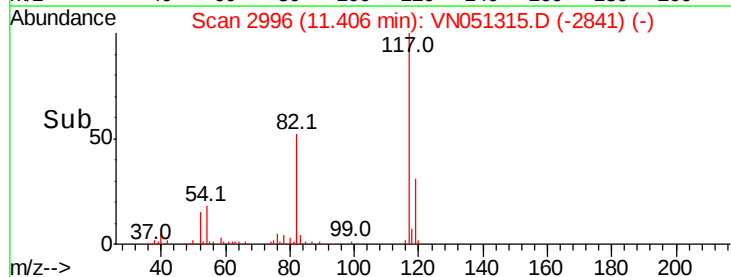
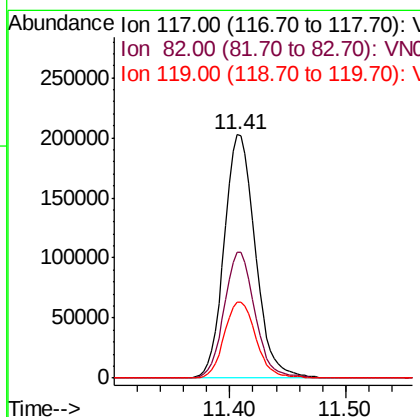
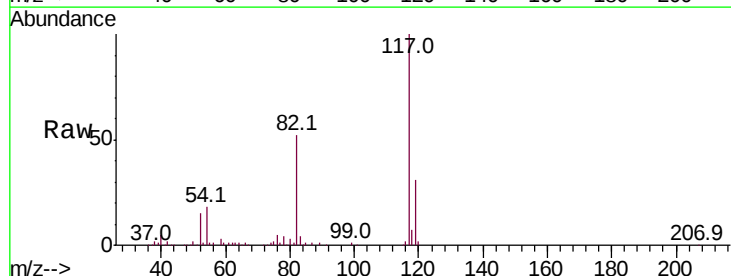
Instrument :
MSVOA_N
ClientSampleId :

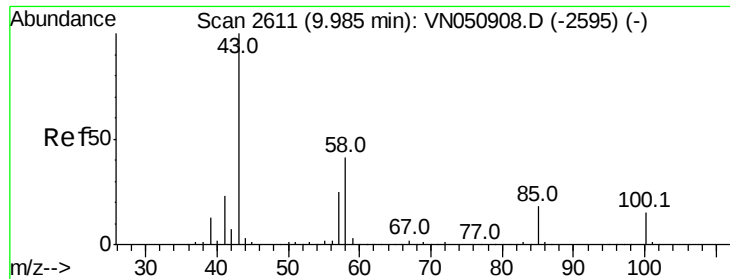
Tot Ion:129 Resp: 4588
Ion Ratio Lower Upper
129 100
127 0.0 39.0 116.9#



#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. -0.00 min
Lab File: VN051315.D
Acq: 19 Sep 2018 13:36

Tgt Ion:117 Resp: 375892
Ion Ratio Lower Upper
117 100
82 51.3 42.6 64.0
119 31.9 25.7 38.5

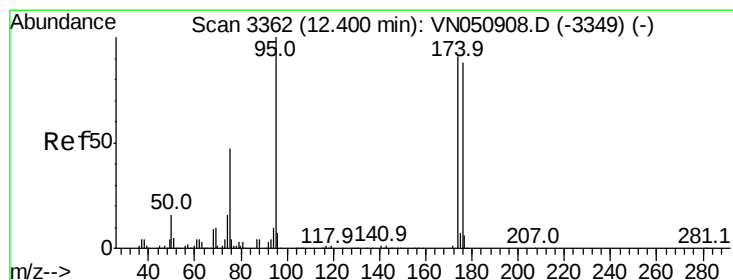
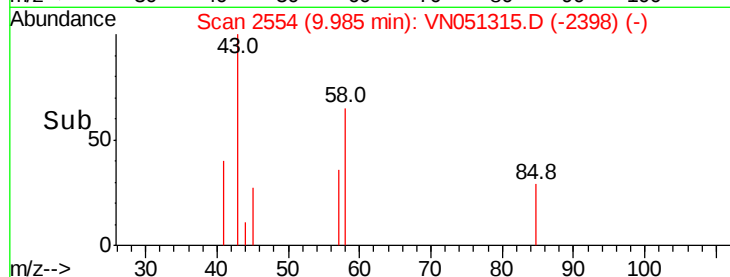
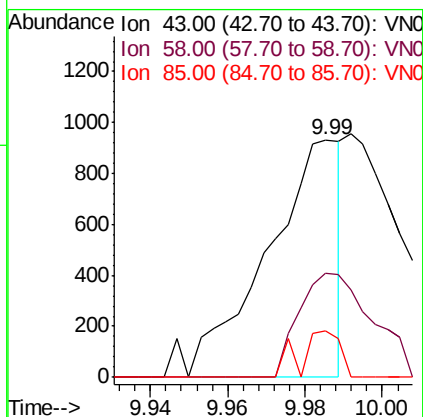
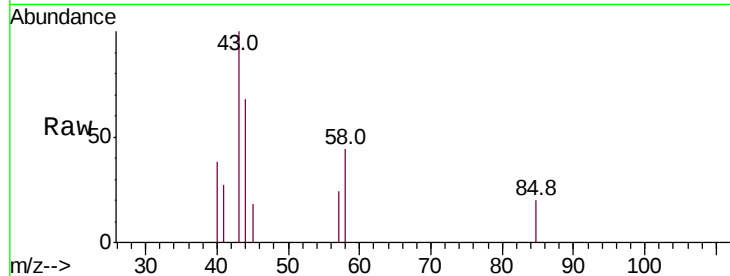




#58
4-Methyl-2-Pentanone
Concen: 0.284 ug/l
RT: 9.99 min Scan# 2554
Delta R.T. 0.00 min
Lab File: VN051315.D
Acq: 19 Sep 2018 13:36

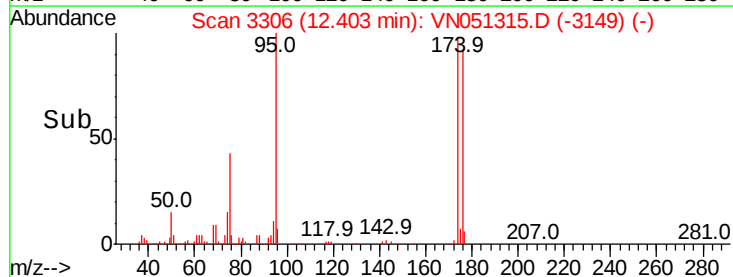
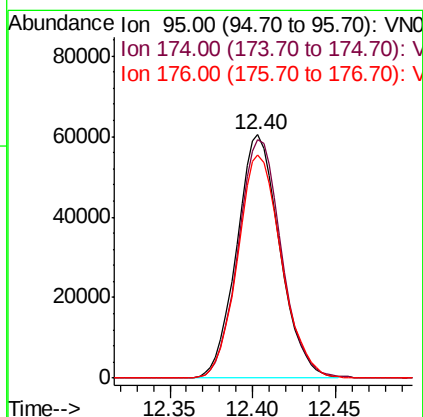
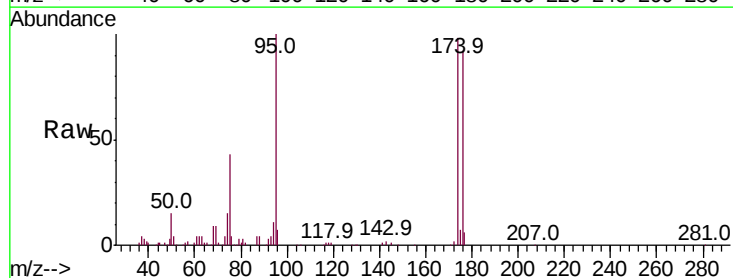
Instrument :
MSVOA_N
ClientSampled :

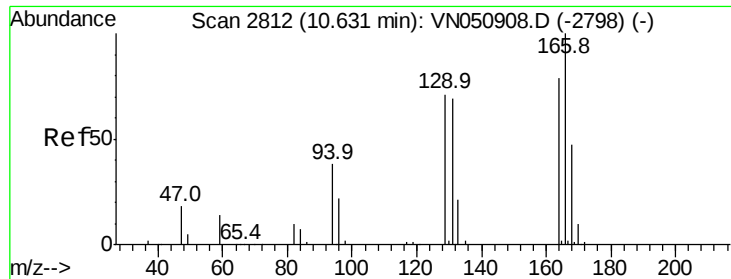
Tot Ion: 43 Resp: 1221
Ion Ratio Lower Upper
43 100
58 43.8 32.3 48.5
85 8.0 14.9 22.3#



#60
4-Bromofluorobenzene
Concen: 19.577 ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.00 min
Lab File: VN051315.D
Acq: 19 Sep 2018 13:36

Tgt Ion: 95 Resp: 109426
Ion Ratio Lower Upper
95 100
174 98.6 74.6 112.0
176 93.4 71.5 107.3





#61

Tetrachloroethene

Concen: 1.214 ug/l

RT: 10.63 min Scan# 2754

Delta R.T. -0.00 min

Lab File: VN051315.D

Acq: 19 Sep 2018 13:36

Instrument :

MSVOA_N

ClientSampleId :

Tot Ion:164 Resp: 5686

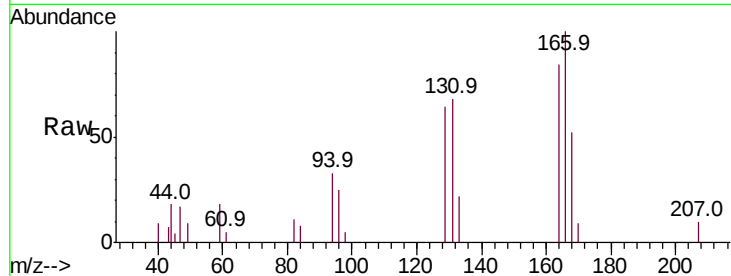
Ion Ratio Lower Upper

164 100

166 119.2 100.6 151.0

129 75.7 71.0 106.6

131 80.7 69.3 103.9



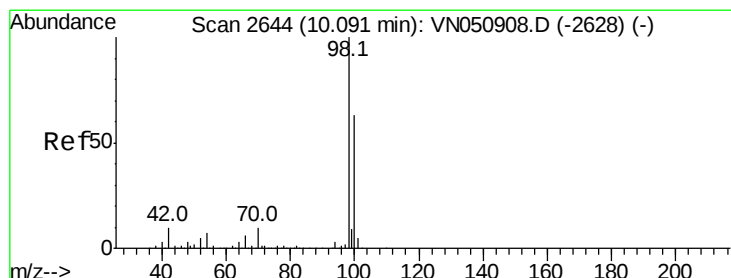
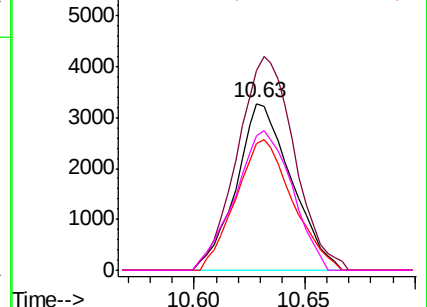
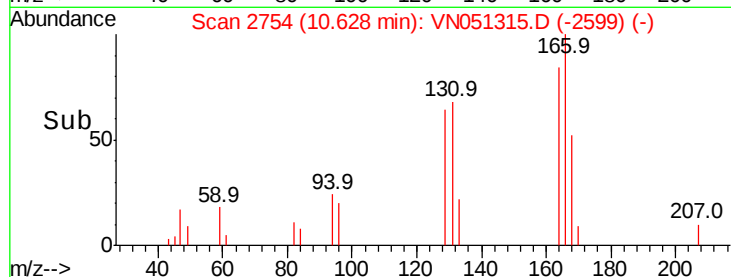
Abundance

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



#63

Toluene-d8

Concen: 29.991 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN051315.D

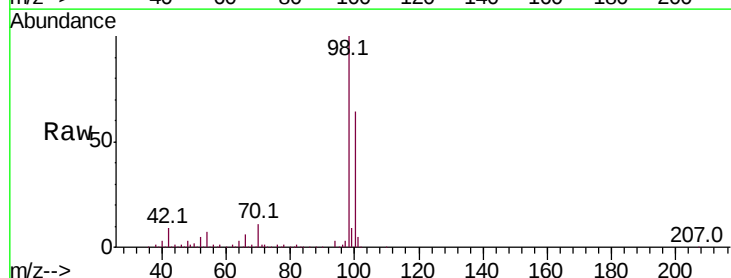
Acq: 19 Sep 2018 13:36

Tgt Ion: 98 Resp: 525714

Ion Ratio Lower Upper

98 100

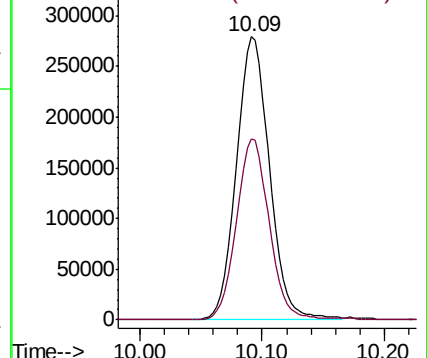
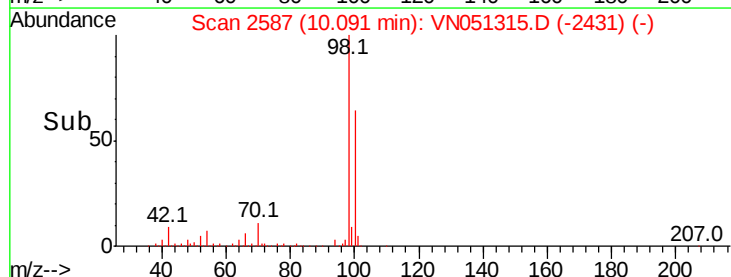
100 63.5 50.6 75.8

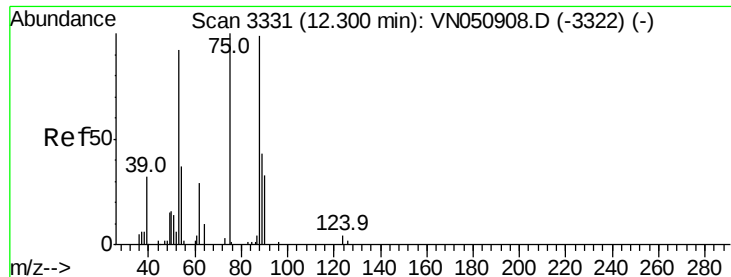


Abundance

Ion 98.00 (97.70 to 98.70): VN

Ion 100.00 (99.70 to 100.70): VN





#77

t-1,4-Dichloro-2-butene

Concen: 35.218 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.10 min

Lab File: VN051315.D

Acq: 19 Sep 2018 13:36

Instrument :

MSVOA_N

ClientSampleId :

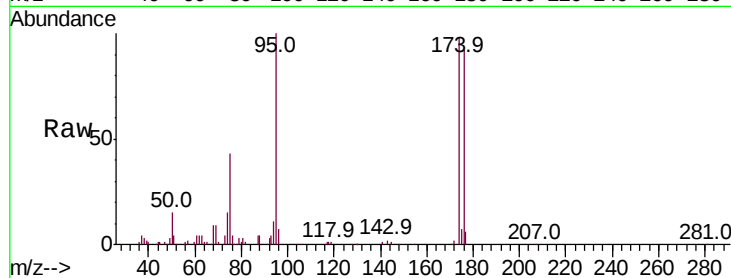
Tot Ion: 75 Resp: 49734

Ion Ratio Lower Upper

75 100

53 0.0 45.5 136.4#

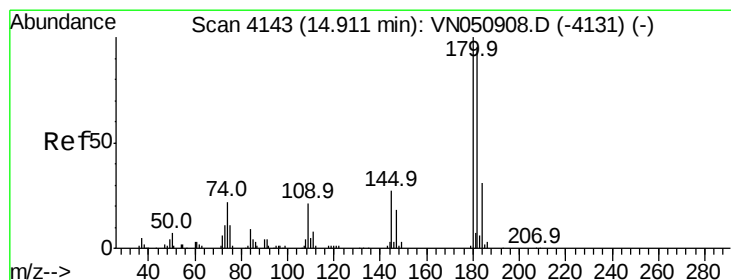
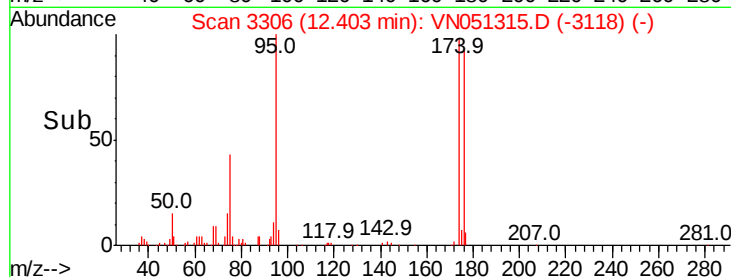
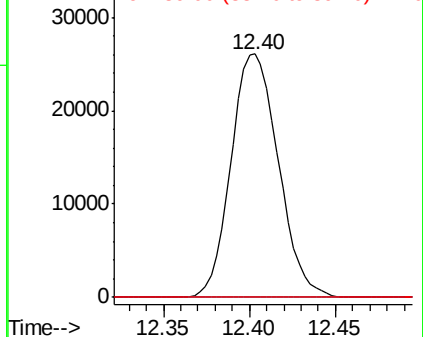
89 0.0 21.9 65.8#



Abundance Ion 75.00 (74.70 to 75.70): VN050908.D (-3322) (-)

Ion 53.00 (52.70 to 53.70): VN050908.D (-3322) (-)

Ion 89.00 (88.70 to 89.70): VN050908.D (-3322) (-)



#89

1,2,4-Trichlorobenzene

Concen: 0.439 ug/l

RT: 14.91 min Scan# 4085

Delta R.T. -0.00 min

Lab File: VN051315.D

Acq: 19 Sep 2018 13:36

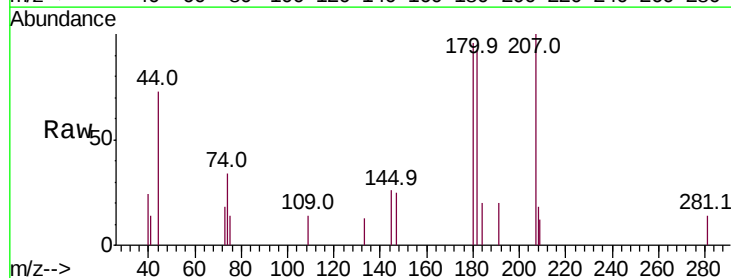
Tgt Ion: 180 Resp: 1816

Ion Ratio Lower Upper

180 100

182 114.3 76.2 114.4

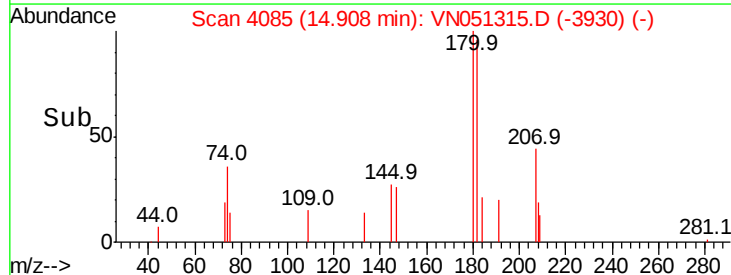
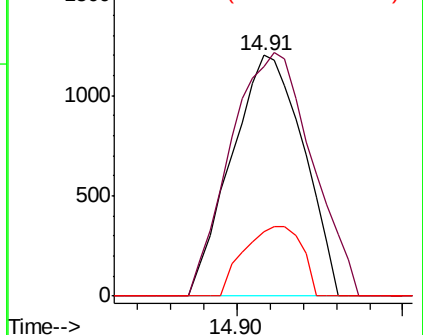
145 23.2 22.2 33.4

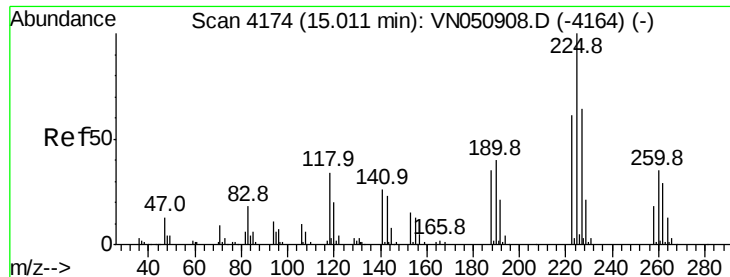


Abundance Ion 180.00 (179.70 to 180.70): VN050908.D (-4131) (-)

Ion 182.00 (181.70 to 182.70): VN050908.D (-4131) (-)

Ion 145.00 (144.70 to 145.70): VN050908.D (-4131) (-)

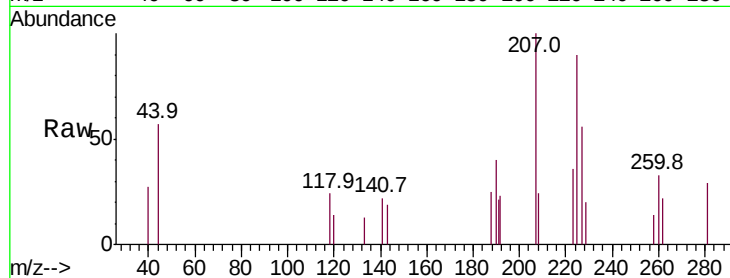




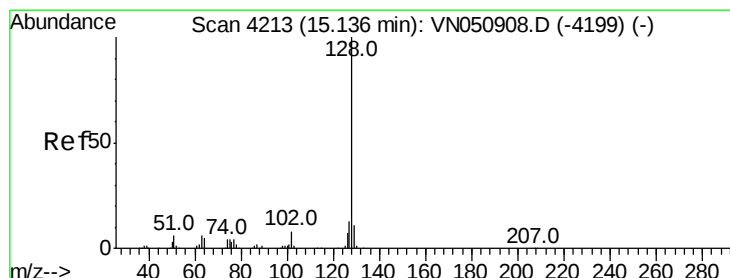
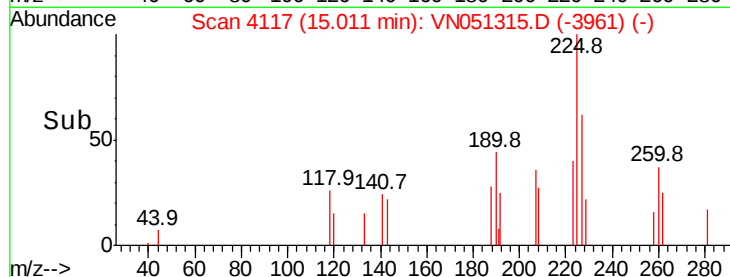
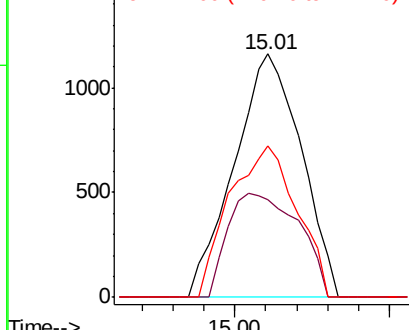
#90
Hexachlorobutadiene
Concen: 0.621 ug/l
RT: 15.01 min Scan# 4117
Delta R.T. 0.00 min
Lab File: VN051315.D
Acq: 19 Sep 2018 13:36

Instrument :
MSVOA_N
ClientSampled :

Tot Ion:	225	Resp:	1745
Ion	Ratio	Lower	Upper
225	100		
223	45.3	0.0	127.8
227	62.6	0.0	128.4

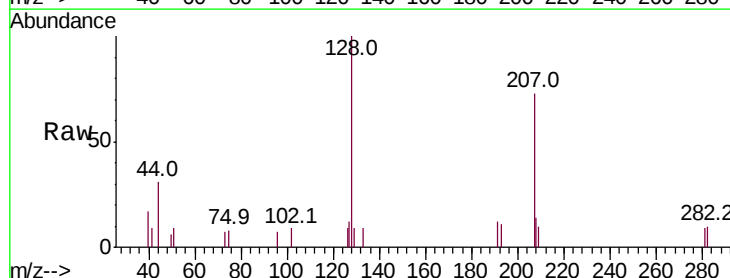


Abundance Ion 225.00 (224.70 to 225.70): V
Ion 223.00 (222.70 to 223.70): V
Ion 227.00 (226.70 to 227.70): V

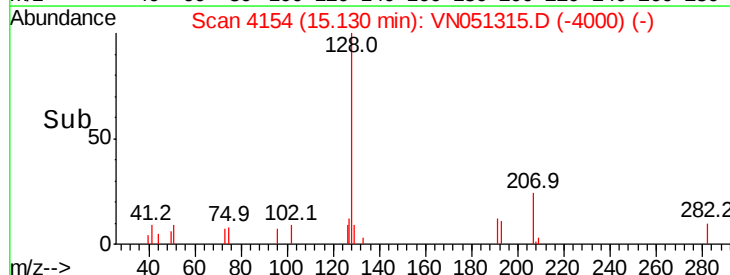
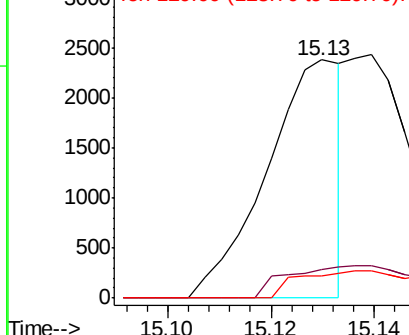


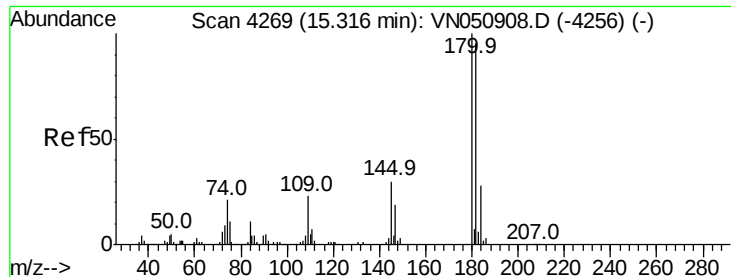
#91
Naphthalene
Concen: 8.765 ug/l
RT: 15.13 min Scan# 4154
Delta R.T. -0.01 min
Lab File: VN051315.D
Acq: 19 Sep 2018 13:36

Tgt Ion:	128	Resp:	2404
Ion	Ratio	Lower	Upper
128	100		
127	17.2	10.6	16.0#
129	3.8	8.7	13.1#



Abundance Ion 128.00 (127.70 to 128.70): V
Ion 127.00 (126.70 to 127.70): V
Ion 129.00 (128.70 to 129.70): V





#92
 1,2,3-Trichlorobenzene
 Concen: 0.559 ug/l
 RT: 15.31 min Scan# 4211
 Delta R.T. -0.00 min
 Lab File: VN051315.D
 Acq: 19 Sep 2018 13:36

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
180	100		
182	100.9	0.0	192.8
145	17.7	0.0	60.0

