

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN091518\
 Data File : VN051253.D
 Acq On : 16 Sep 2018 4:36
 Operator : MD\SY
 Sample : J4774-04
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 42 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Sep 17 04:27:13 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N091018W.M
 Quant Title : SW846 8260
 QLast Update : Tue Sep 11 02:27:09 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	430545	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	669393	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	543239	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	162061	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.03	65	237094	49.48	ug/l	0.00
Spiked Amount 50.000			Recovery	=	98.96%	
35) Dibromofluoromethane	7.59	113	255414	50.78	ug/l	0.00
Spiked Amount 50.000			Recovery	=	101.56%	
50) Toluene-d8	10.09	98	854749	44.78	ug/l	0.00
Spiked Amount 50.000			Recovery	=	89.56%	
62) 4-Bromofluorobenzene	12.40	95	222330	35.21	ug/l	0.00
Spiked Amount 50.000			Recovery	=	70.42%	

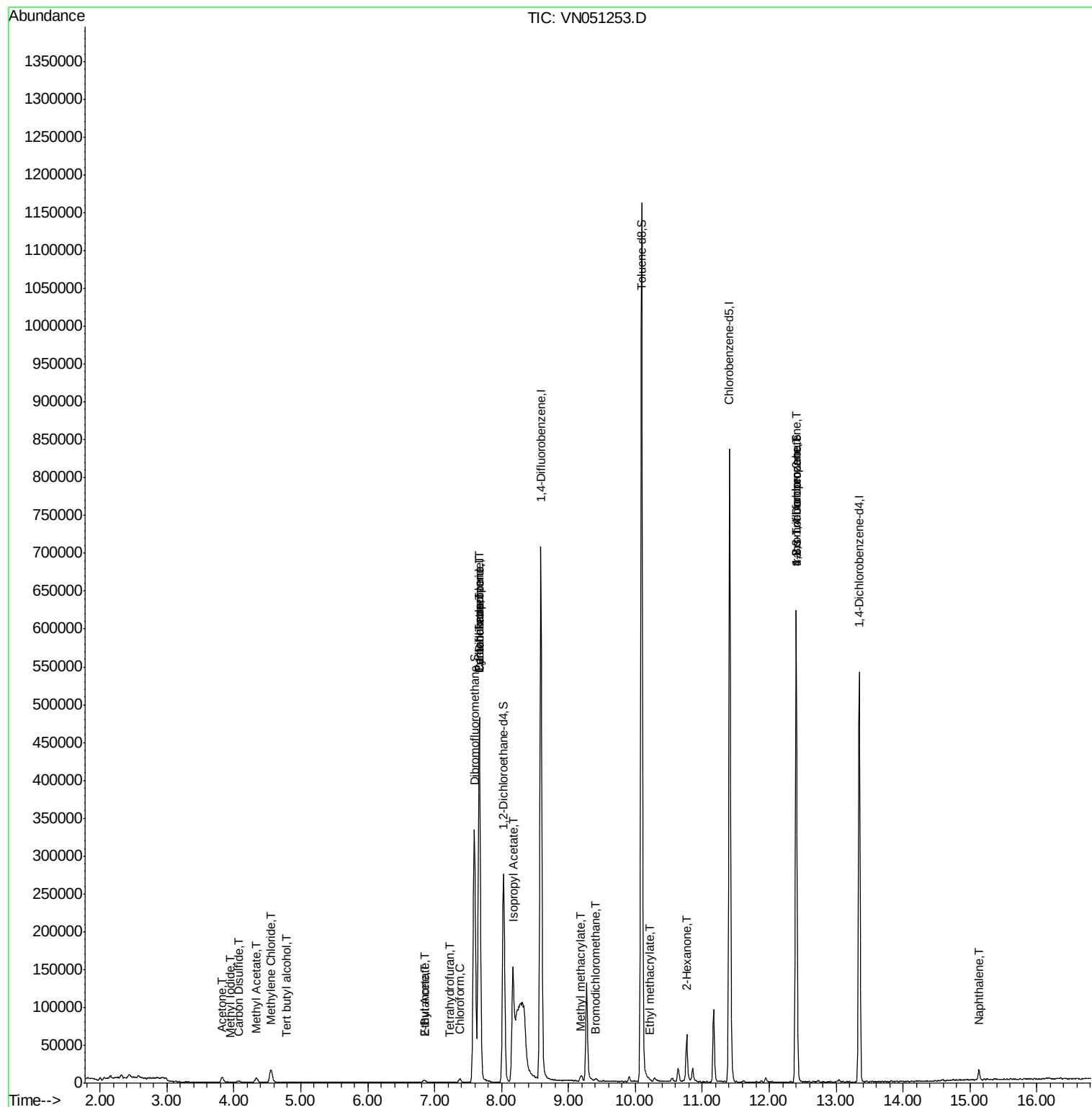
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.06	50	1703	Below Cal	#	88
5) Bromomethane	2.58	94	1702	Below Cal		94
10) Methyl Iodide	3.96	142	332	5.70	ug/l #	44
11) Tert butyl alcohol	4.79	59	230	0.63	ug/l #	73
16) Acetone	3.83	43	11432	3.90	ug/l	96
17) Carbon Disulfide	4.06	76	1339	0.21	ug/l #	76
18) Methyl Acetate	4.34	43	11483	2.99	ug/l #	77
20) Methylene Chloride	4.55	84	7199	1.36	ug/l	91
25) 2-Butanone	6.85	43	5700	3.03	ug/l #	82
29) Tetrahydrofuran	7.22	42	716	0.61	ug/l #	31
30) Chloroform	7.38	83	5855	0.67	ug/l	99
31) Cyclohexane	7.67	56	7061	0.67	ug/l #	1
36) 1,1-Dichloropropene	7.67	75	27809	3.78	ug/l #	47
37) Ethyl Acetate	6.85	43	5700	1.34	ug/l #	66
38) Carbon Tetrachloride	7.67	117	35676	4.93	ug/l #	18
43) Isopropyl Acetate	8.17	43	188812	25.14	ug/l #	80
47) Bromodichloromethane	9.41	83	1719	0.24	ug/l #	87
48) Methyl methacrylate	9.18	41	4910	1.34	ug/l #	17
56) Ethyl methacrylate	10.23	69	933	2.59	ug/l #	91
59) 2-Hexanone	10.76	43	9038	3.21	ug/l	65
76) 1,2,3-Trichloropropane	12.40	75	105332	41.68	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	105332	123.44	ug/l #	15
90) Hexachloroethane	13.99	117	412	Below Cal	#	2
95) Naphthalene	15.13	128	12079	7.11	ug/l	96

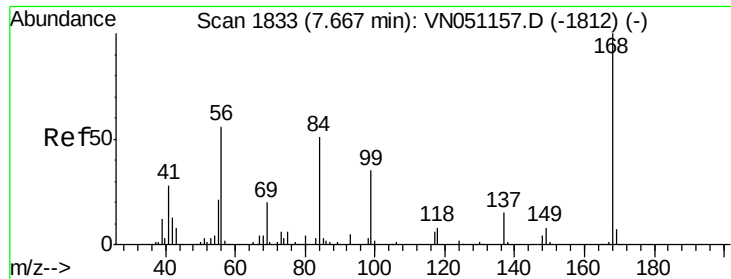
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.00 min

Lab File: VN051253.D

Acq: 16 Sep 2018 4:36

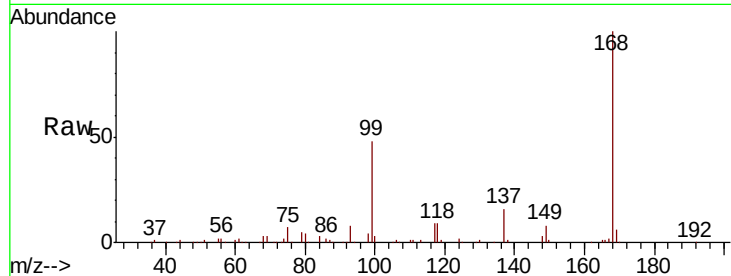
Instrument :
MSVOA_N
ClientSampled :

Tot Ion:168 Resp: 430545

Ion Ratio Lower Upper

168 100

99 47.7 38.3 57.5



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.67

200000

150000

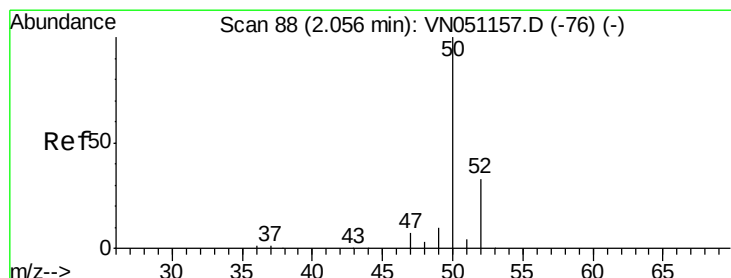
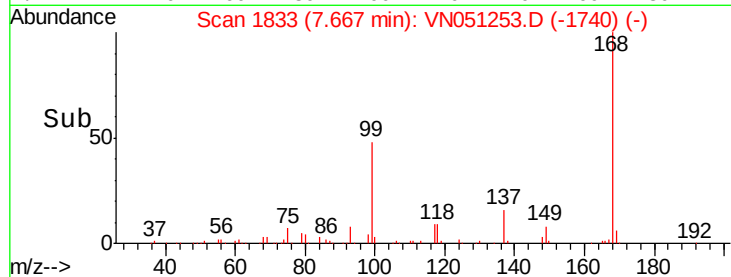
100000

50000

0

7.60 7.70 7.80

Time-->



#3

Chloromethane

Concen: Below Cal

RT: 2.06 min Scan# 89

Delta R.T. 0.00 min

Lab File: VN051253.D

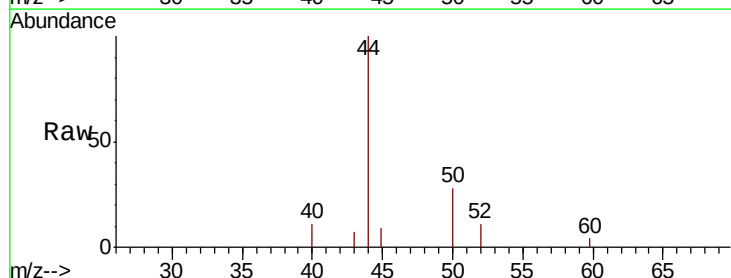
Acq: 16 Sep 2018 4:36

Tgt Ion: 50 Resp: 1703

Ion Ratio Lower Upper

50 100

52 39.4 26.0 39.0#



Abundance Ion 49.90 (49.60 to 50.60): VNO

Ion 51.90 (51.60 to 52.60): VNO

2.06

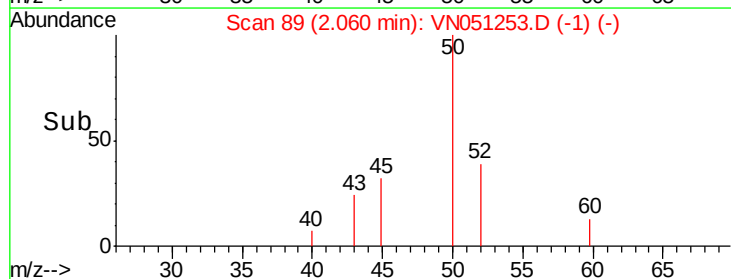
1000

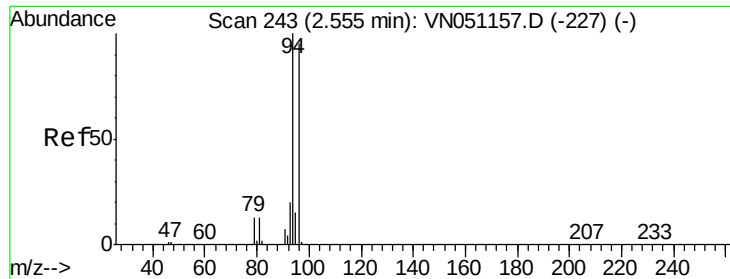
500

0

2.05 2.10

Time-->





#5

Bromomethane

Concen: Below Cal

RT: 2.58 min Scan# 250

Delta R.T. 0.01 min

Lab File: VN051253.D

Acq: 16 Sep 2018 4:36

Instrument :

MSVOA_N

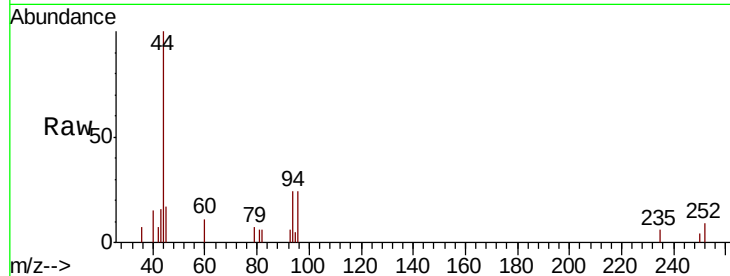
ClientSampleId :

Tot Ion: 94 Resp: 1702

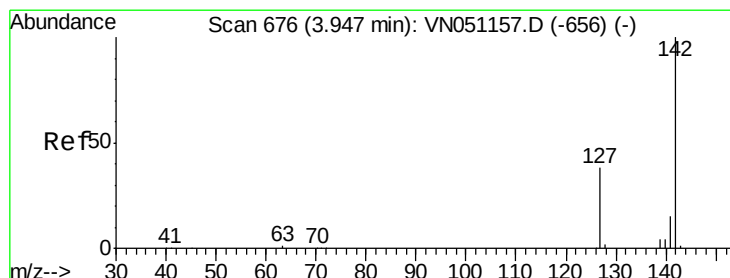
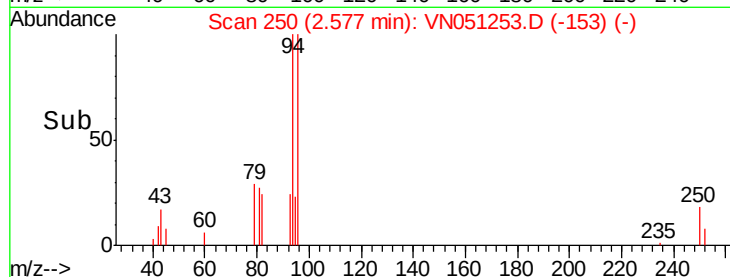
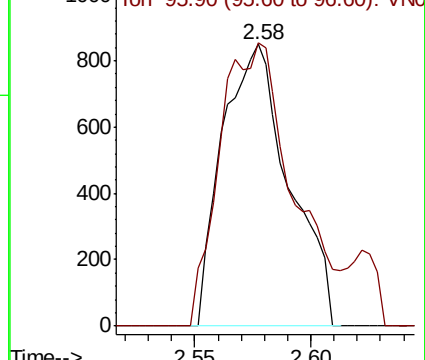
Ion Ratio Lower Upper

94 100

96 100.5 75.9 113.9



Abundance Ion 93.90 (93.60 to 94.60): VN051157.D (-227) (-)



#10

Methyl Iodide

Concen: 5.70 ug/l

RT: 3.96 min Scan# 679

Delta R.T. 0.01 min

Lab File: VN051253.D

Acq: 16 Sep 2018 4:36

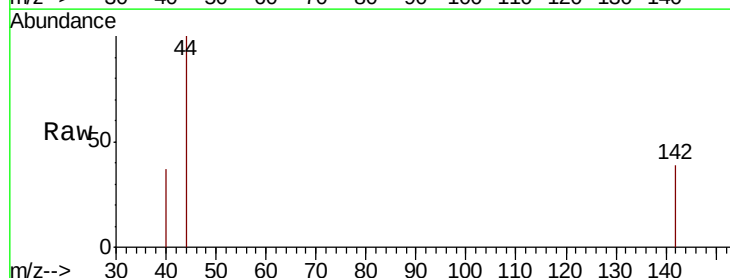
Tgt Ion: 142 Resp: 332

Ion Ratio Lower Upper

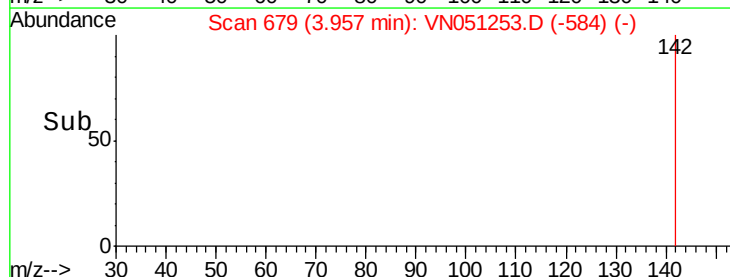
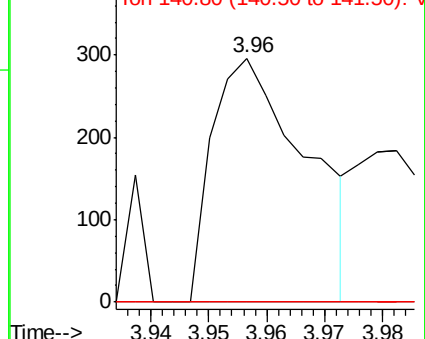
142 100

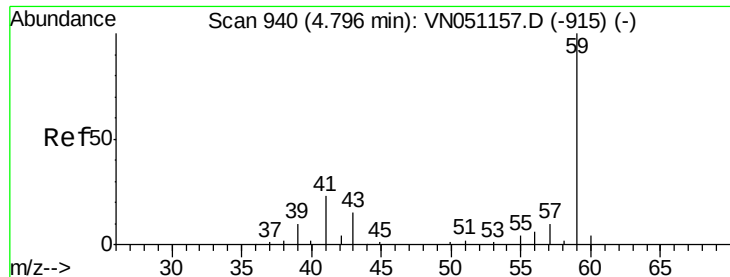
127 0.0 31.0 46.4#

141 0.0 11.3 16.9#



Abundance Ion 141.80 (141.50 to 142.50): VN051157.D (-656) (-)

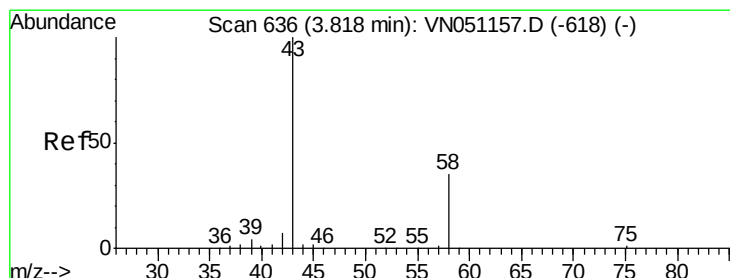
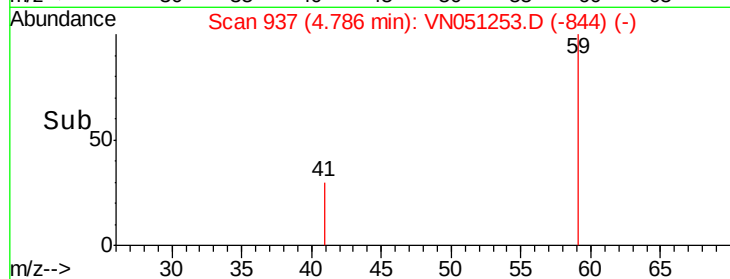
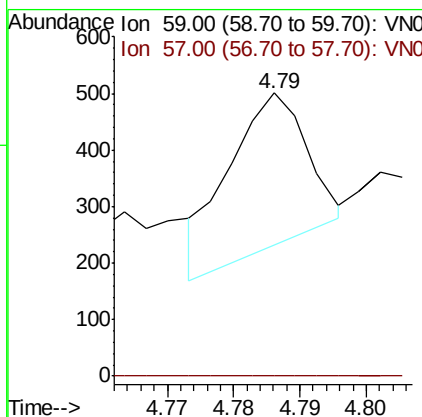
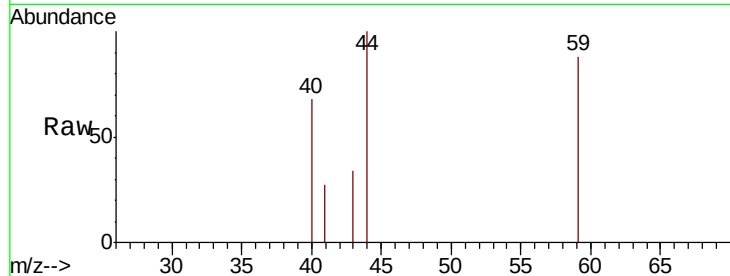




#11
Tert butyl alcohol
Concen: 0.63 ug/l
RT: 4.79 min Scan# 937
Delta R.T. -0.00 min
Lab File: VN051253.D
Acq: 16 Sep 2018 4:36

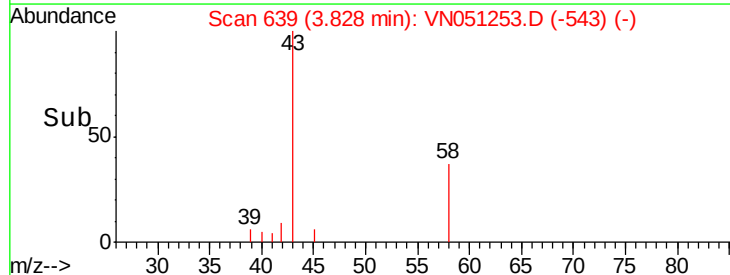
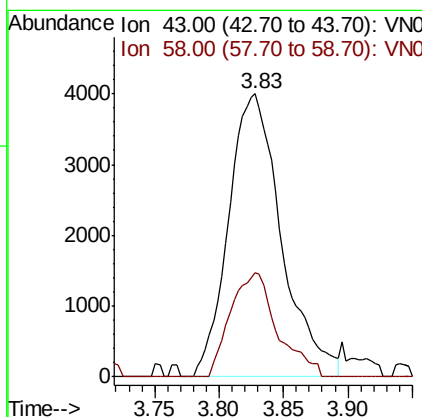
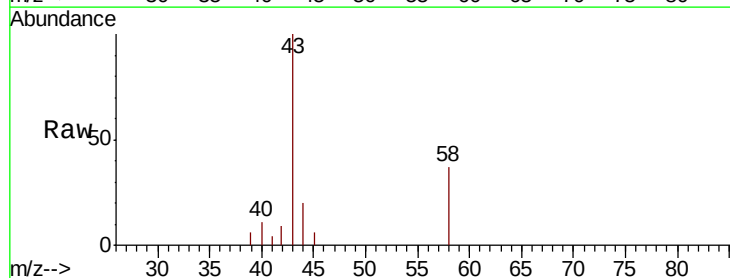
Instrument :
MSVOA_N
ClientSampled :

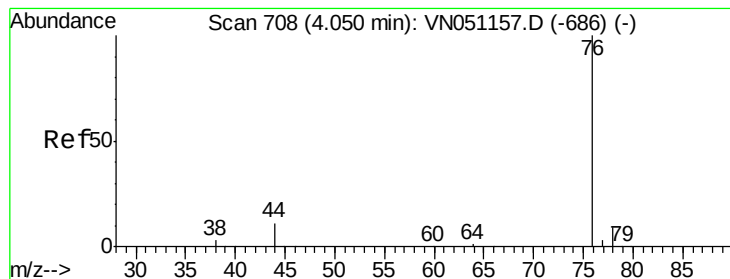
Tot Ion: 59 Resp: 230
Ion Ratio Lower Upper
59 100
57 0.0 8.1 12.1#



#16
Acetone
Concen: 3.90 ug/l
RT: 3.83 min Scan# 639
Delta R.T. 0.01 min
Lab File: VN051253.D
Acq: 16 Sep 2018 4:36

Tgt Ion: 43 Resp: 11432
Ion Ratio Lower Upper
43 100
58 36.8 27.8 41.6





#17

Carbon Disulfide

Concen: 0.21 ug/l

RT: 4.06 min Scan# 712

Delta R.T. 0.01 min

Lab File: VN051253.D

Acq: 16 Sep 2018 4:36

Instrument :

MSVOA_N

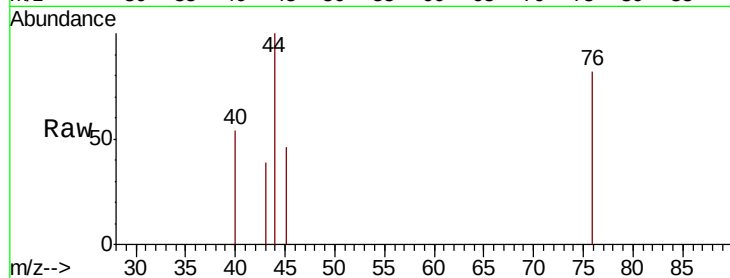
ClientSampleId :

Tot Ion: 76 Resp: 1339

Ion Ratio Lower Upper

76 100

78 0.0 7.0 10.6#



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0

4.06

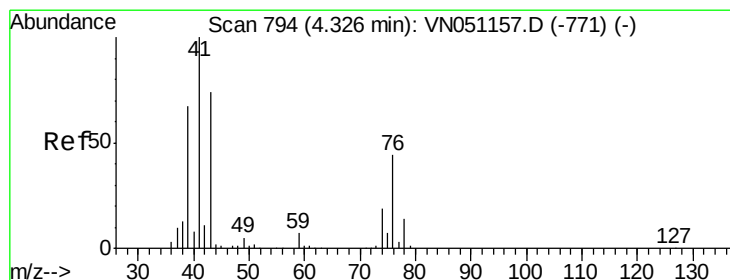
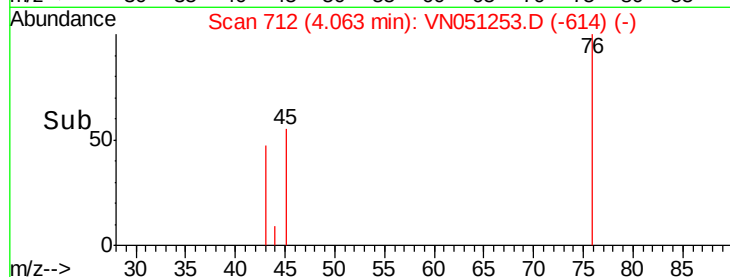
600

400

200

0

Time-->



#18

Methyl Acetate

Concen: 2.99 ug/l

RT: 4.34 min Scan# 797

Delta R.T. 0.01 min

Lab File: VN051253.D

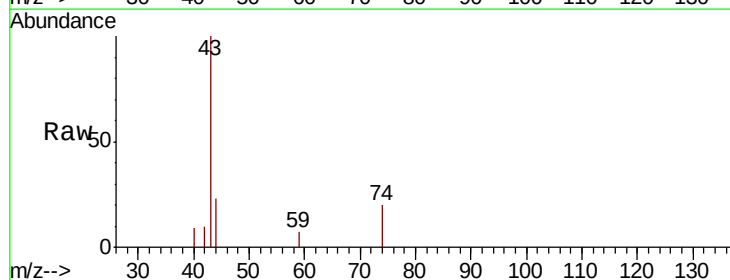
Acq: 16 Sep 2018 4:36

Tgt Ion: 43 Resp: 11483

Ion Ratio Lower Upper

43 100

74 14.0 20.7 31.1#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 74.00 (73.70 to 74.70): VN0

4.34

4000

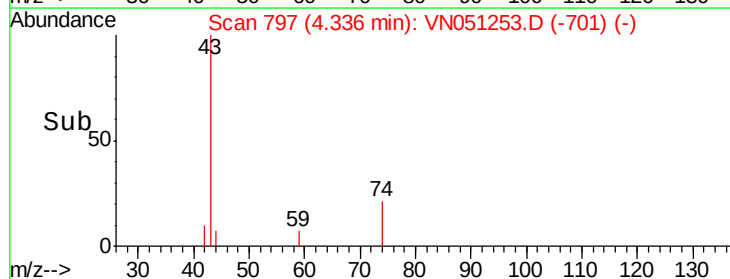
3000

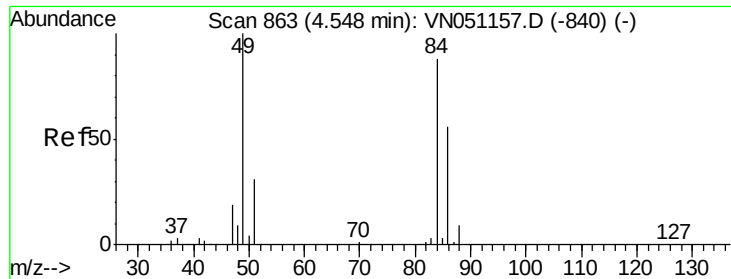
2000

1000

0

Time-->

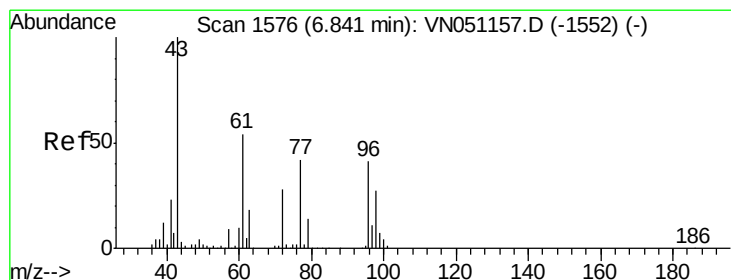
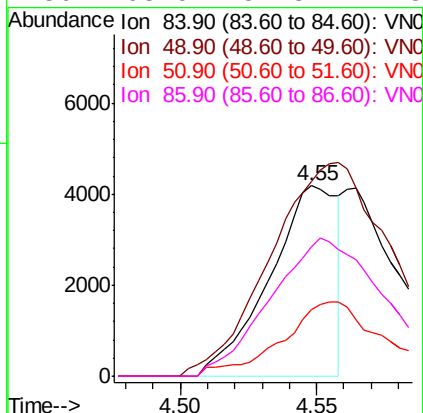
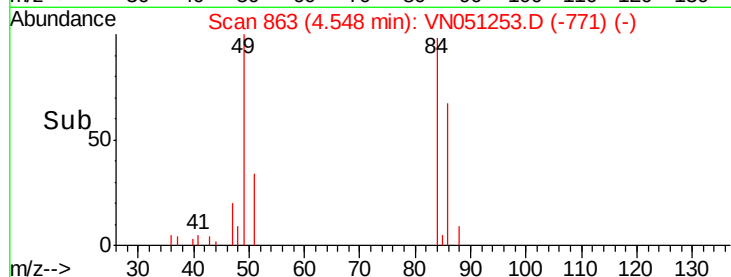
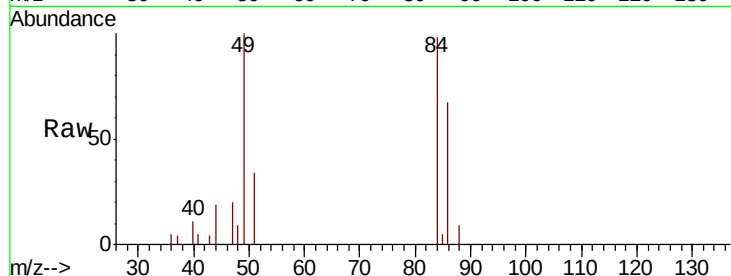




#20
Methvlene Chloride
Concen: 1.36 ug/l
RT: 4.55 min Scan# 863
Delta R.T. -0.00 min
Lab File: VN051253.D
Acq: 16 Sep 2018 4:36

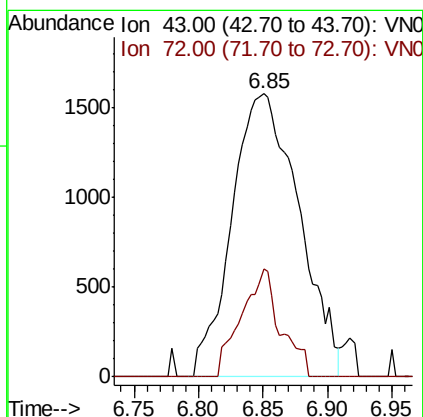
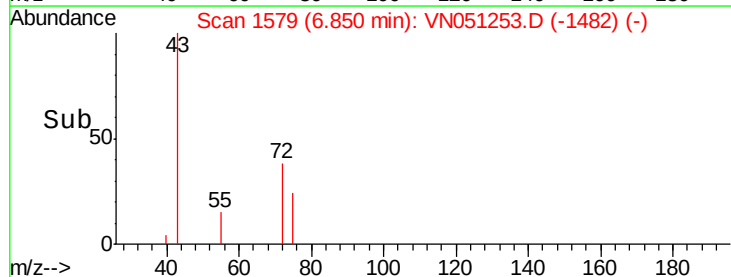
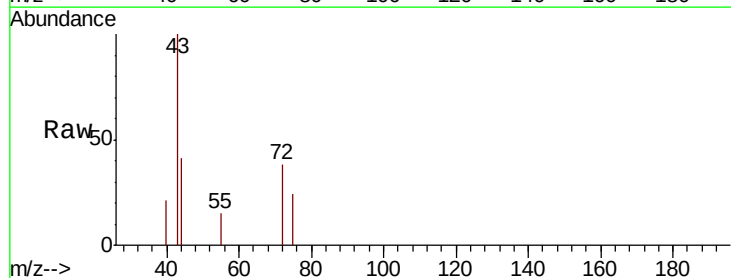
Instrument :
MSVOA_N
ClientSampled :

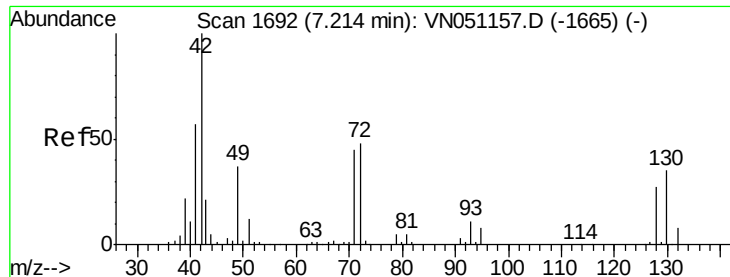
Tot Ion:	84	Resp:	7199
Ion	Ratio	Lower	Upper
84	100		
49	97.9	90.2	135.2
51	34.9	28.4	42.6
86	68.0	51.8	77.8



#25
2-Butanone
Concen: 3.03 ug/l
RT: 6.85 min Scan# 1579
Delta R.T. 0.01 min
Lab File: VN051253.D
Acq: 16 Sep 2018 4:36

Tgt Ion:	43	Resp:	5700
Ion	Ratio	Lower	Upper
43	100		
72	38.2	23.0	34.6#





#29

Tetrahydrofuran

Concen: 0.61 ug/l

RT: 7.22 min Scan# 1695

Delta R.T. 0.01 min

Lab File: VN051253.D

Acq: 16 Sep 2018 4:36

Instrument :
MSVOA_N
ClientSampleId :

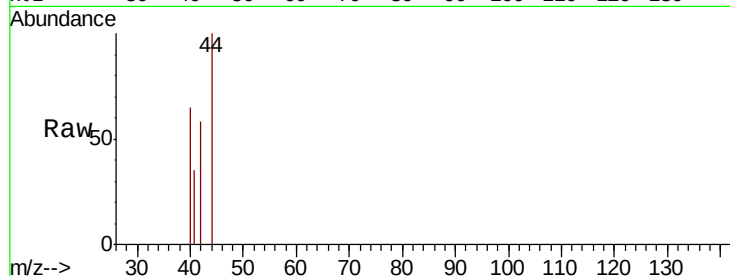
Tot Ion: 42 Resp: 716

Ion Ratio Lower Upper

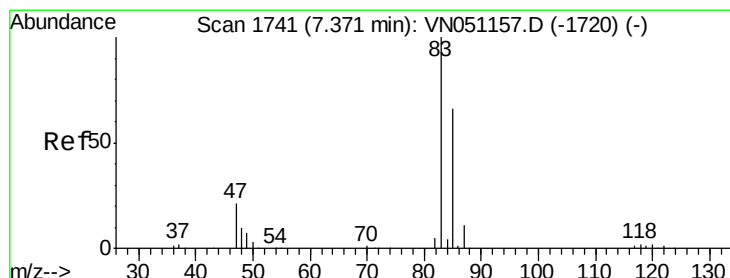
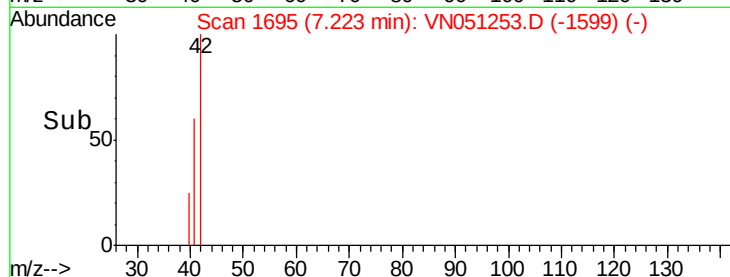
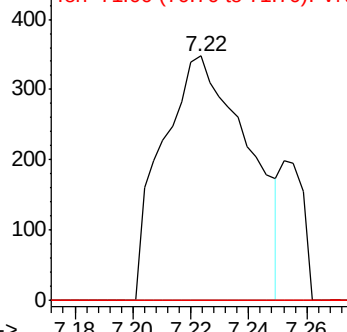
42 100

72 0.0 37.4 56.0#

71 0.0 34.7 52.1#



Abundance Ion 42.00 (41.70 to 42.70): VN0
Ion 72.00 (71.70 to 72.70): VN0
Ion 71.00 (70.70 to 71.70): VN0



#30

Chloroform

Concen: 0.67 ug/l

RT: 7.38 min Scan# 1744

Delta R.T. 0.01 min

Lab File: VN051253.D

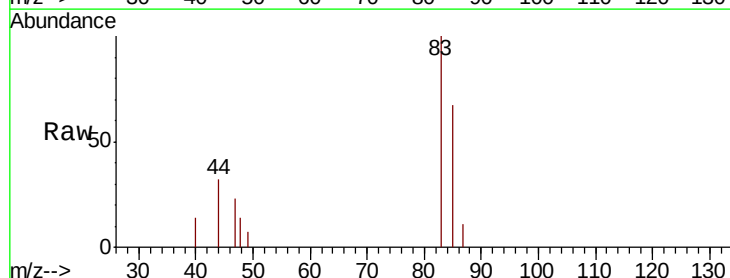
Acq: 16 Sep 2018 4:36

Tgt Ion: 83 Resp: 5855

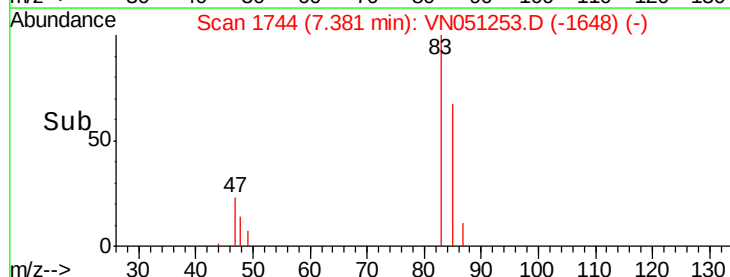
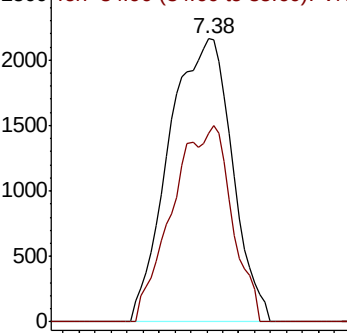
Ion Ratio Lower Upper

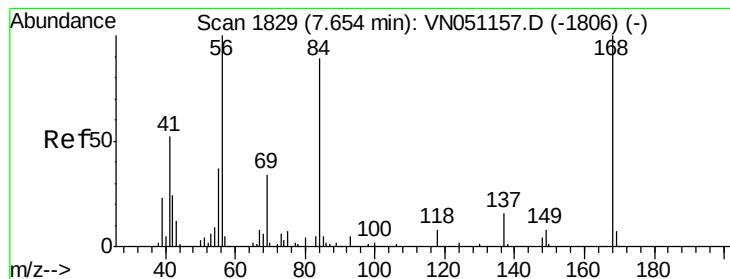
83 100

85 66.7 52.6 79.0



Abundance Ion 82.90 (82.60 to 83.60): VN0
Ion 84.90 (84.60 to 85.60): VN0





#31

Cyclohexane

Concen: 0.67 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. 0.01 min

Lab File: VN051253.D

Acq: 16 Sep 2018 4:36

Instrument :

MSVOA_N

ClientSampled :

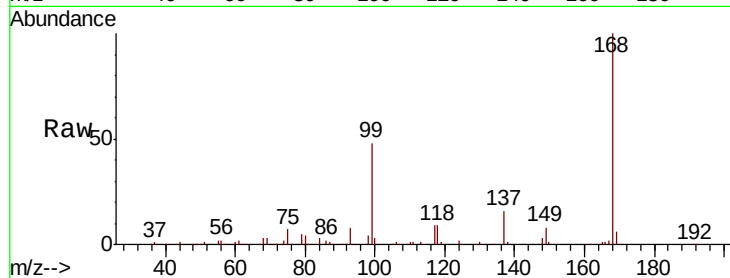
Tot Ion: 56 Resp: 7061

Ion Ratio Lower Upper

56 100

69 187.8 26.3 39.5#

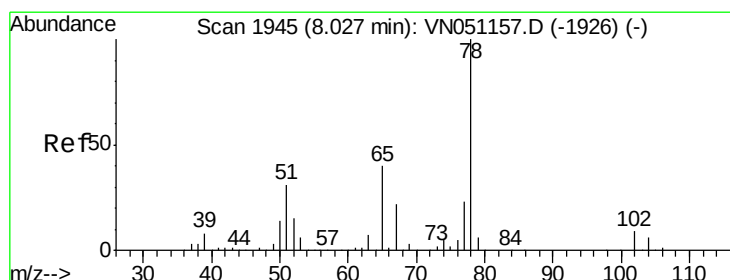
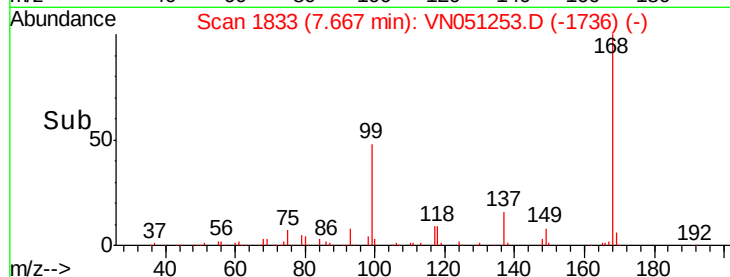
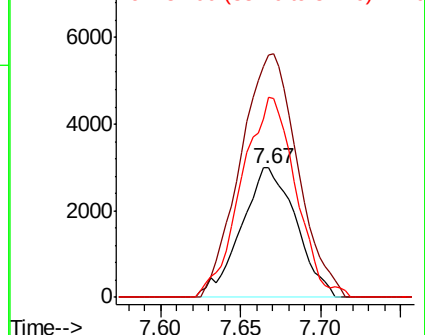
84 154.4 69.4 104.0#



Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 84.00 (83.70 to 84.70): VN0



#33

1,2-Dichloroethane-d4

Concen: 49.48 ug/l

RT: 8.03 min Scan# 1946

Delta R.T. 0.00 min

Lab File: VN051253.D

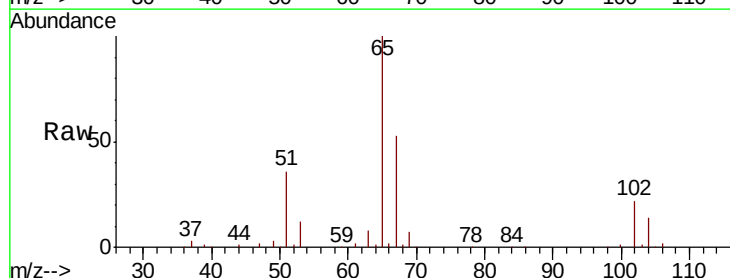
Acq: 16 Sep 2018 4:36

Tgt Ion: 65 Resp: 237094

Ion Ratio Lower Upper

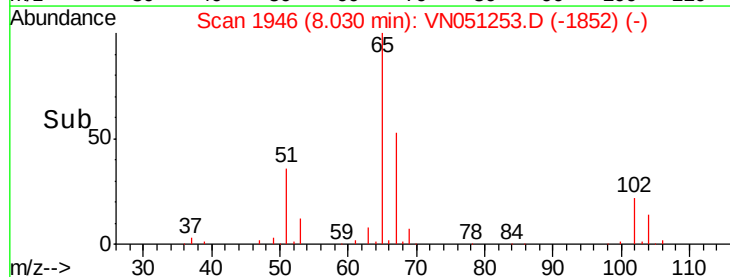
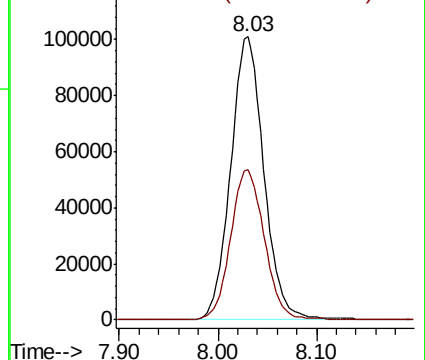
65 100

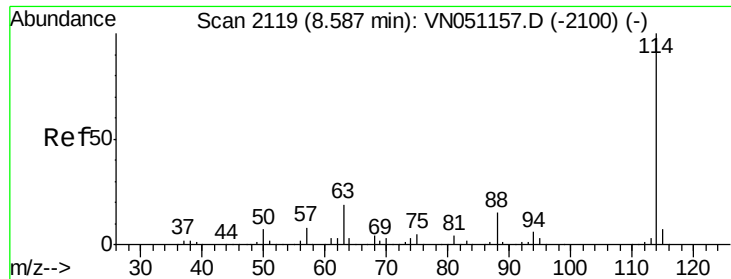
67 53.8 0.0 112.0



Abundance Ion 64.90 (64.60 to 65.60): VN0

Ion 66.90 (66.60 to 67.60): VN0

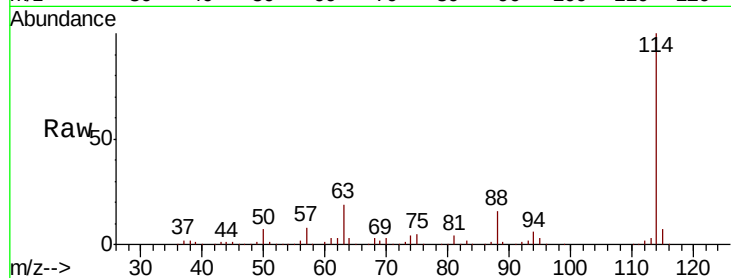




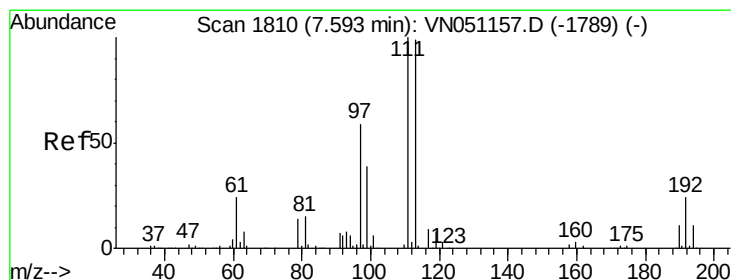
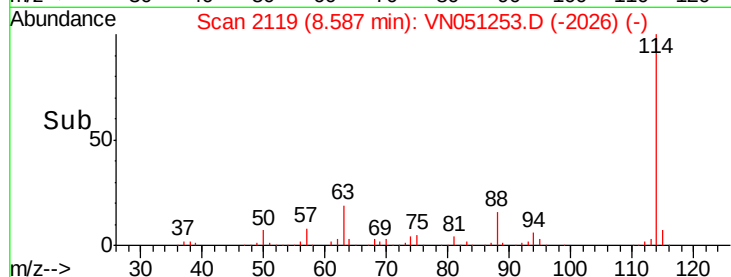
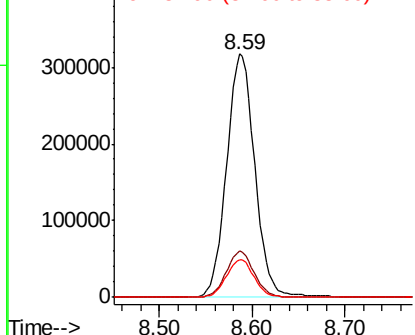
#34
1,4-Difluorobenzene
Concen: 50.00 ug/l
RT: 8.59 min Scan# 2119
Delta R.T. -0.00 min
Lab File: VN051253.D
Acq: 16 Sep 2018 4:36

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
114	100		
63	19.0	0.0	37.8
88	15.6	0.0	30.8

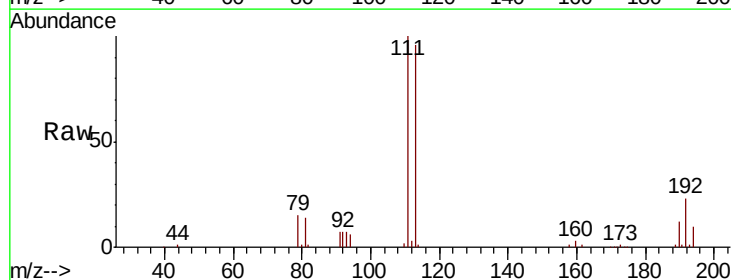


Abundance Ion 113.90 (113.60 to 114.60): V
Ion 63.00 (62.70 to 63.70): VN
Ion 87.90 (87.60 to 88.60): VN

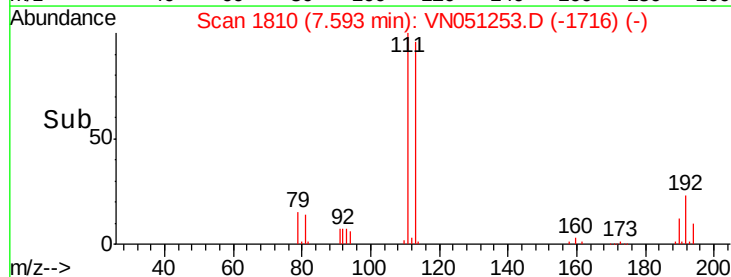
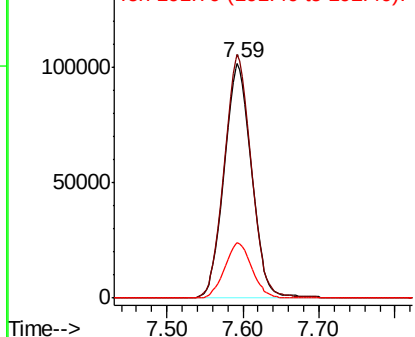


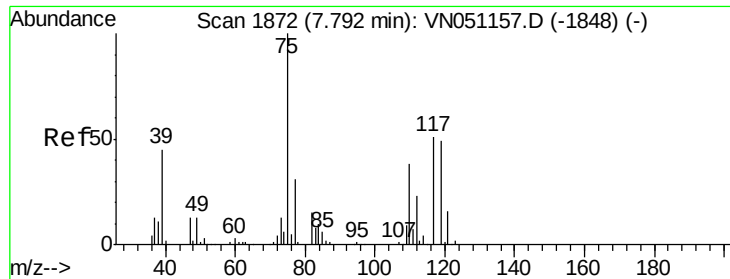
#35
Dibromofluoromethane
Concen: 50.78 ug/l
RT: 7.59 min Scan# 1810
Delta R.T. 0.00 min
Lab File: VN051253.D
Acq: 16 Sep 2018 4:36

Tgt Ion	Ratio	Lower	Upper
113	100		
111	102.6	83.0	124.6
192	23.5	18.7	28.1



Abundance Ion 112.80 (112.50 to 113.50): V
Ion 110.80 (110.50 to 111.50): V
Ion 191.70 (191.40 to 192.40): V

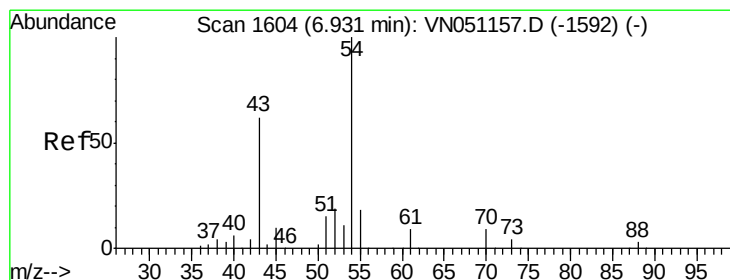
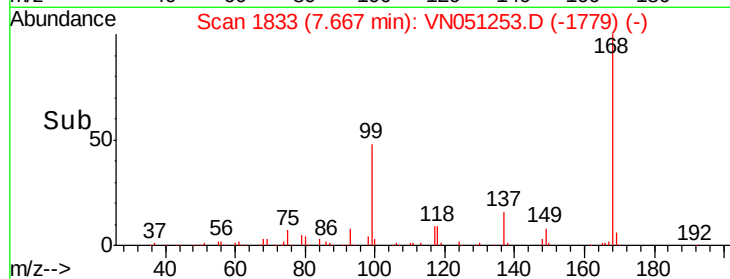
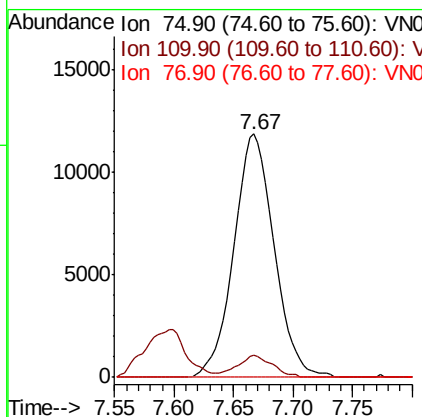
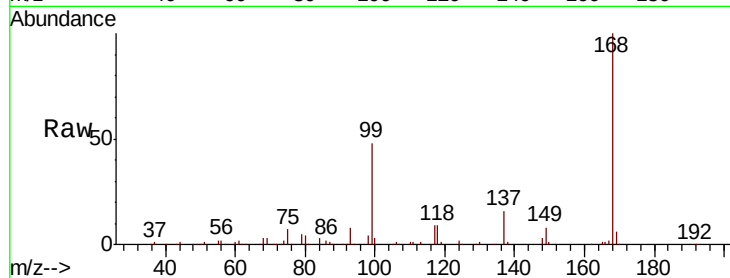




#36
 1,1-Dichloropropene
 Concen: 3.78 ug/l
 RT: 7.67 min Scan# 1833
 Delta R.T. -0.13 min
 Lab File: VN051253.D
 Acq: 16 Sep 2018 4:36

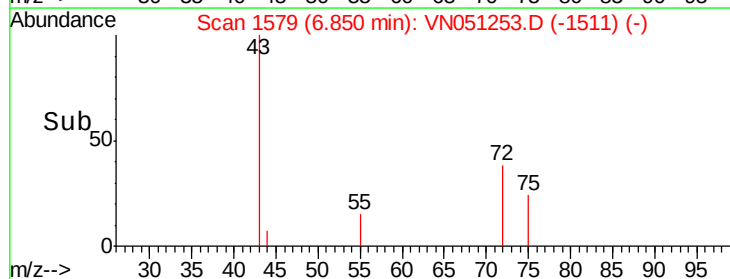
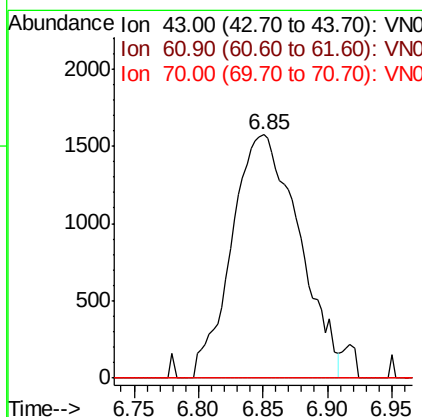
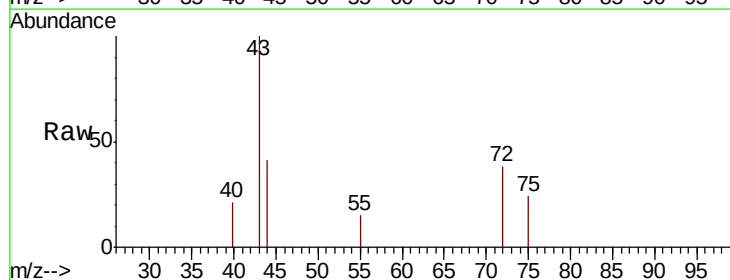
Instrument :
 MSVOA_N
 ClientSampleId :

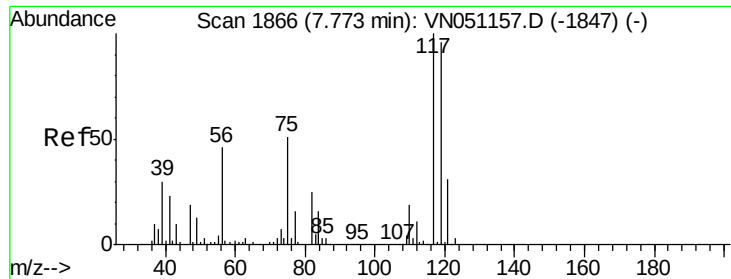
Tot Ion	75	Resp	27809
Ion Ratio	Lower	Upper	
75	100		
110	8.0	18.6	55.8#
77	0.0	25.2	37.8#



#37
 Ethyl Acetate
 Concen: 1.34 ug/l
 RT: 6.85 min Scan# 1579
 Delta R.T. -0.08 min
 Lab File: VN051253.D
 Acq: 16 Sep 2018 4:36

Tgt Ion	43	Resp	5700
Ion Ratio	Lower	Upper	
43	100		
61	0.0	12.4	18.6#
70	0.0	9.3	13.9#

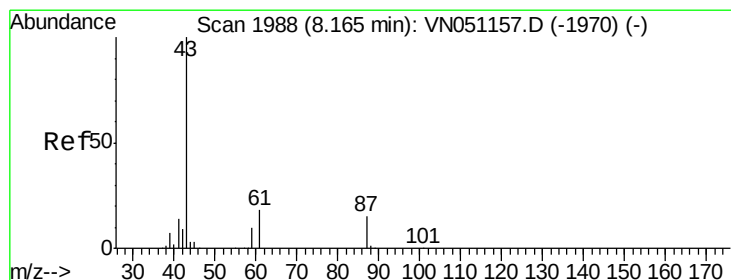
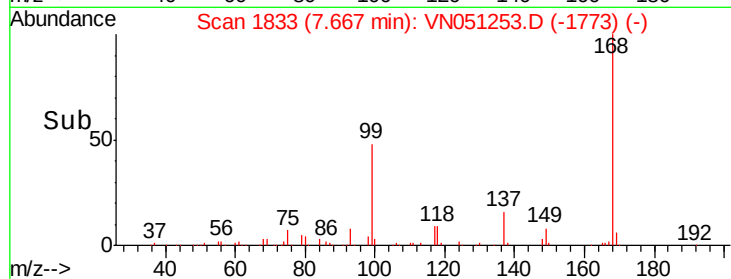
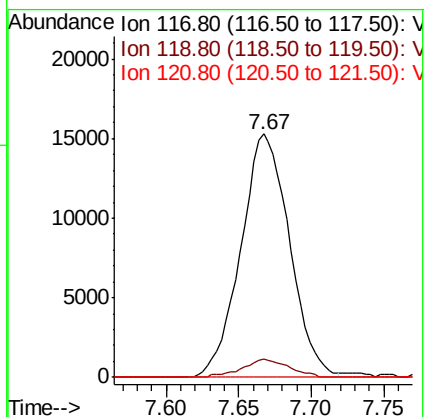
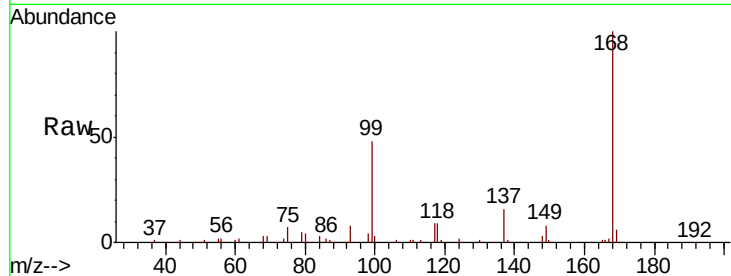




#38
Carbon Tetrachloride
Concen: 4.93 ug/l
RT: 7.67 min Scan# 1833
Delta R.T. -0.11 min
Lab File: VN051253.D
Acq: 16 Sep 2018 4:36

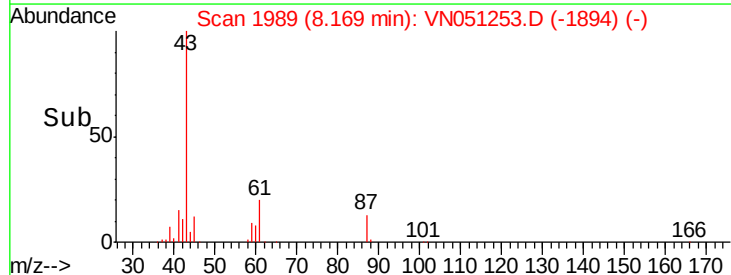
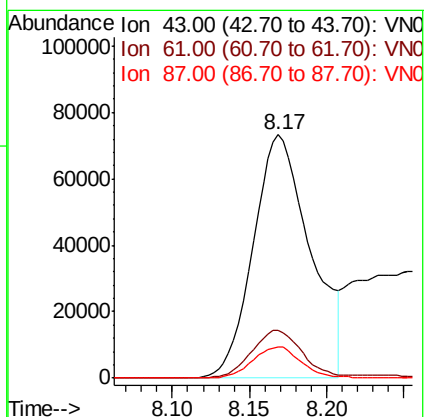
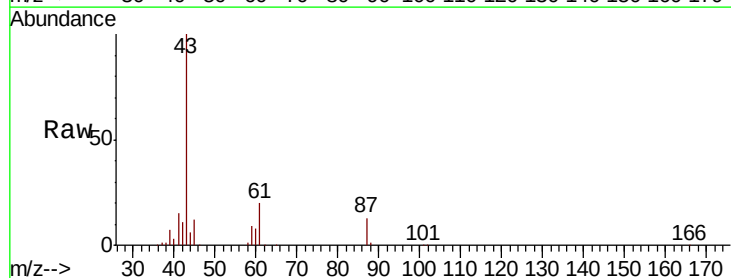
Instrument :
MSVOA_N
ClientSampleId :

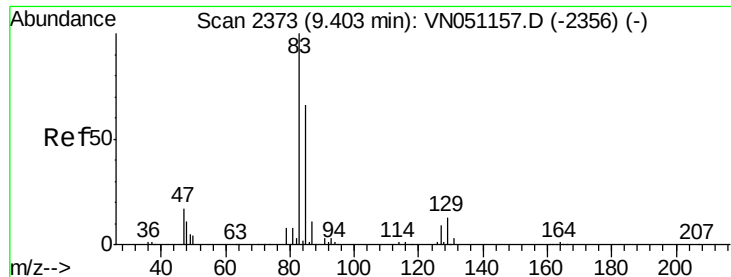
Tot Ion:117 Resp: 35676
Ion Ratio Lower Upper
117 100
119 7.4 76.8 115.2#
121 0.0 24.6 36.8#



#43
Isopropyl Acetate
Concen: 25.14 ug/l
RT: 8.17 min Scan# 1989
Delta R.T. 0.01 min
Lab File: VN051253.D
Acq: 16 Sep 2018 4:36

Tgt Ion: 43 Resp: 188812
Ion Ratio Lower Upper
43 100
61 17.4 25.0 37.6#
87 11.0 11.8 17.8#





#47

Bromodichloromethane

Concen: 0.24 ug/l

RT: 9.41 min Scan# 2375

Delta R.T. 0.01 min

Lab File: VN051253.D

Acq: 16 Sep 2018 4:36

Instrument :

MSVOA_N

ClientSampled :

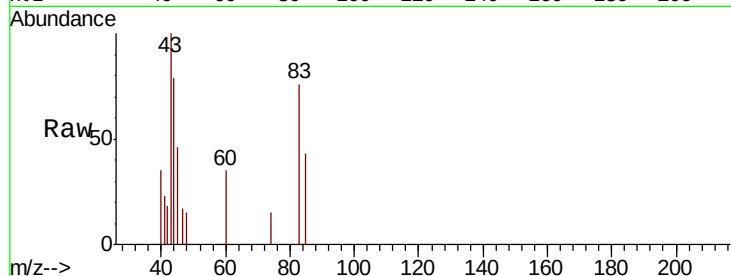
Tot Ion: 83 Resp: 1719

Ion Ratio Lower Upper

83 100

85 56.5 52.3 78.5

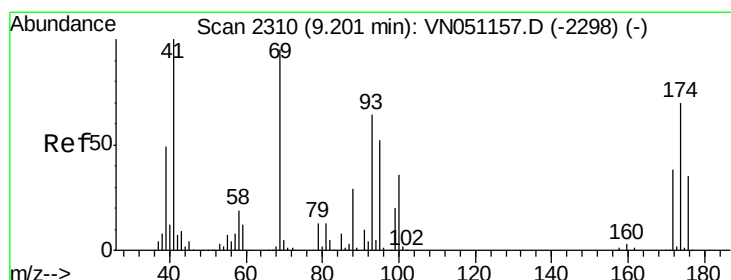
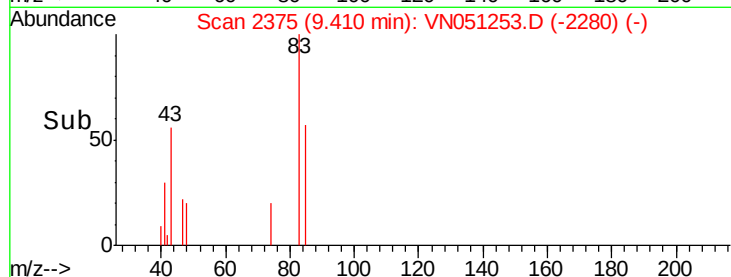
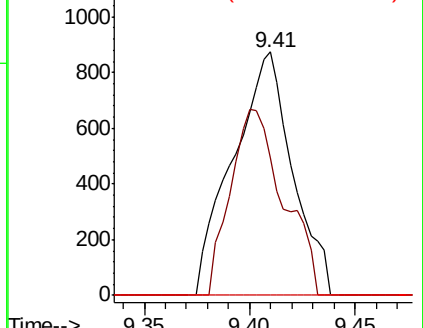
127 0.0 7.5 11.3#



Abundance Ion 82.90 (82.60 to 83.60): VNC

Ion 84.90 (84.60 to 85.60): VNC

Ion 126.80 (126.50 to 127.50): VNC



#48

Methyl methacrylate

Concen: 1.34 ug/l

RT: 9.18 min Scan# 2303

Delta R.T. -0.02 min

Lab File: VN051253.D

Acq: 16 Sep 2018 4:36

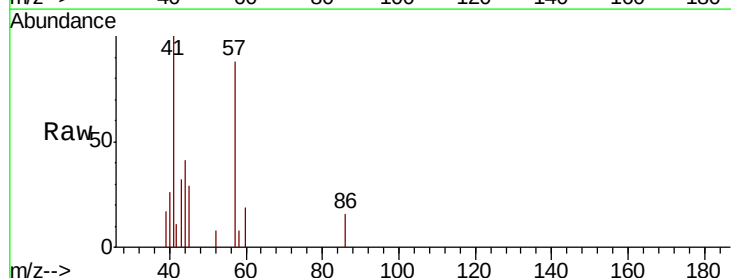
Tgt Ion: 41 Resp: 4910

Ion Ratio Lower Upper

41 100

69 0.0 77.7 116.5#

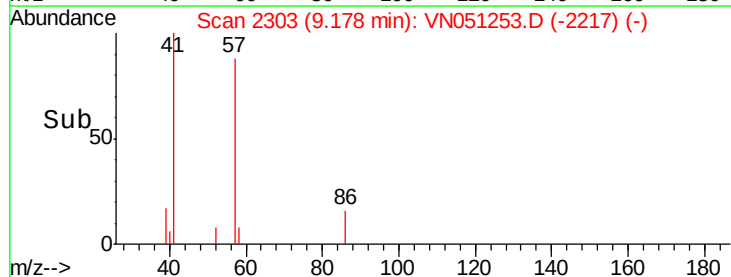
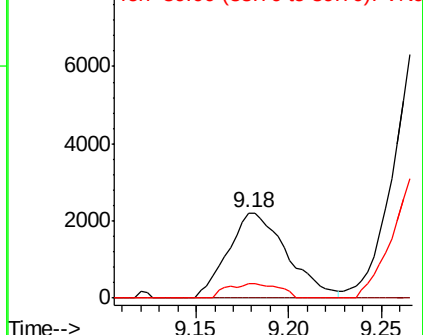
39 15.0 41.6 62.4#

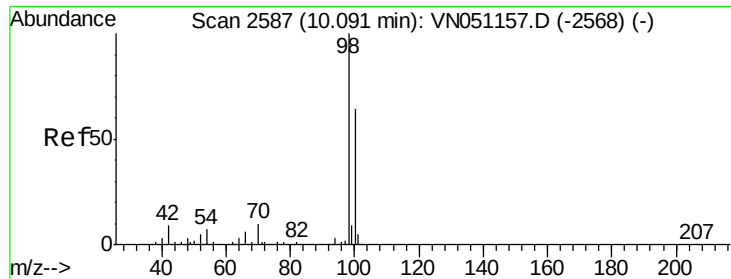


Abundance Ion 41.00 (40.70 to 41.70): VNC

Ion 69.00 (68.70 to 69.70): VNC

Ion 39.00 (38.70 to 39.70): VNC





#50

Toluene-d8

Concen: 44.78 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. -0.00 min

Lab File: VN051253.D

Acq: 16 Sep 2018 4:36

Instrument :

MSVOA_N

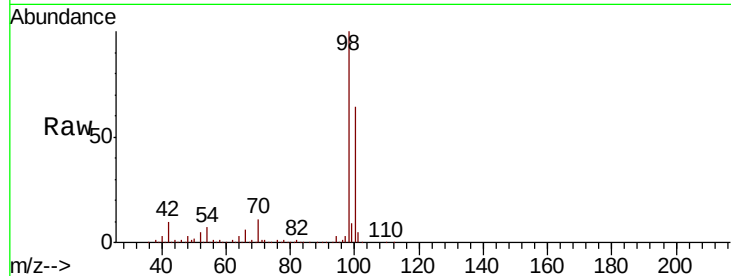
ClientSampleId :

Tot Ion: 98 Resp: 854749

Ion Ratio Lower Upper

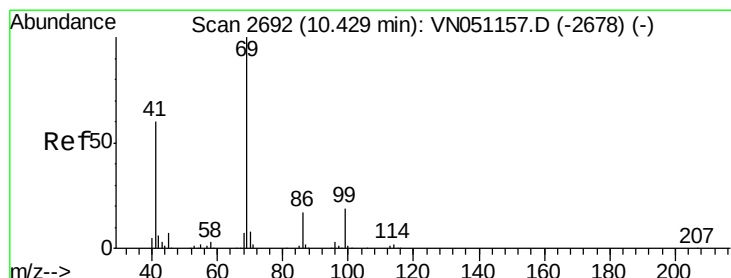
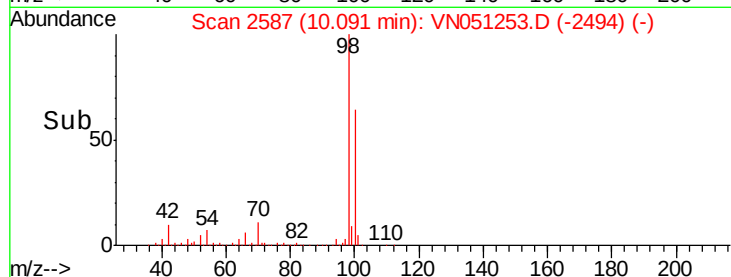
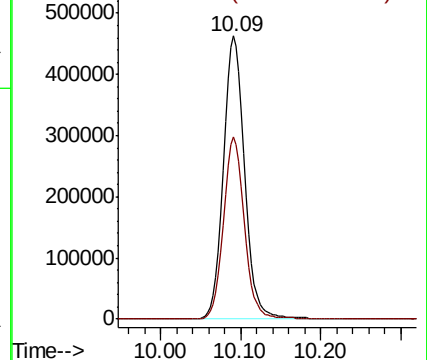
98 100

100 63.5 52.0 78.0



Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN



#56

Ethyl methacrylate

Concen: 2.59 ug/l

RT: 10.23 min Scan# 2630

Delta R.T. -0.20 min

Lab File: VN051253.D

Acq: 16 Sep 2018 4:36

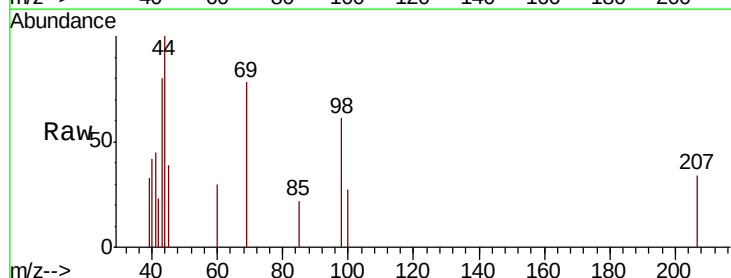
Tgt Ion: 69 Resp: 933

Ion Ratio Lower Upper

69 100

41 54.8 47.8 71.8

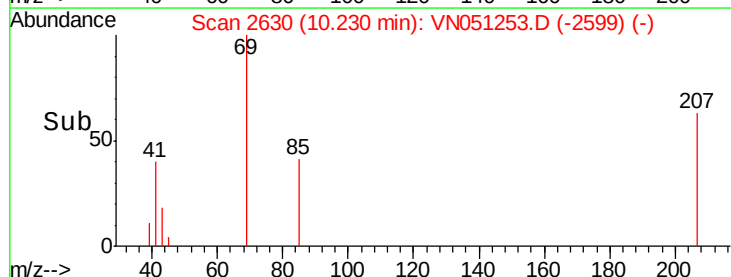
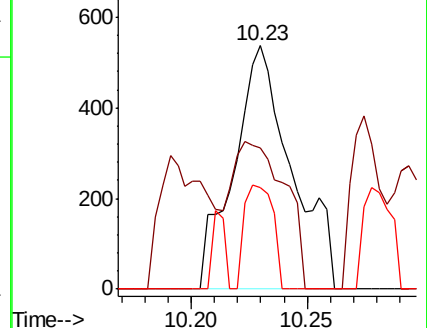
39 21.2 23.0 34.4#

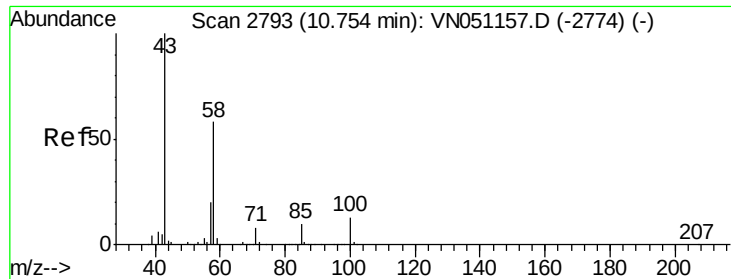


Abundance Ion 69.00 (68.70 to 69.70): VN0

Ion 41.00 (40.70 to 41.70): VN0

Ion 39.00 (38.70 to 39.70): VN0

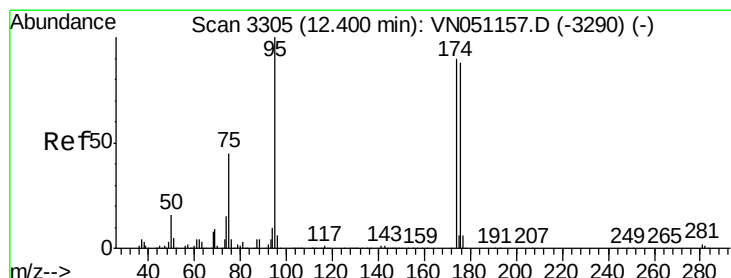
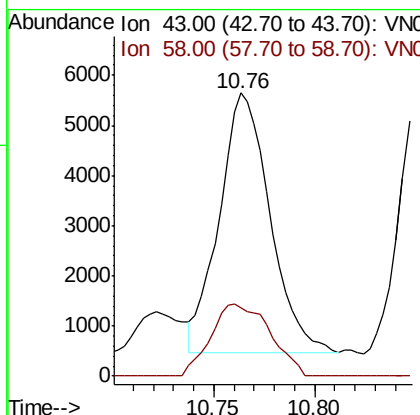
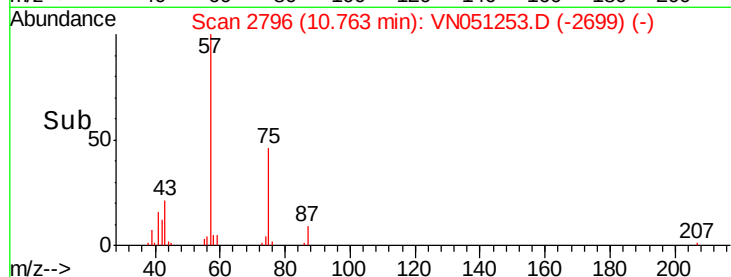
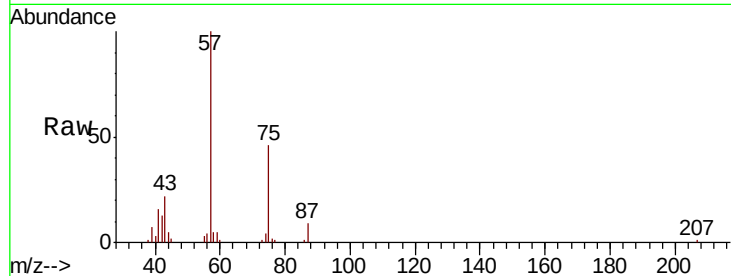




#59
2-Hexanone
Concen: 3.21 ug/l
RT: 10.76 min Scan# 2796
Delta R.T. 0.01 min
Lab File: VN051253.D
Acq: 16 Sep 2018 4:36

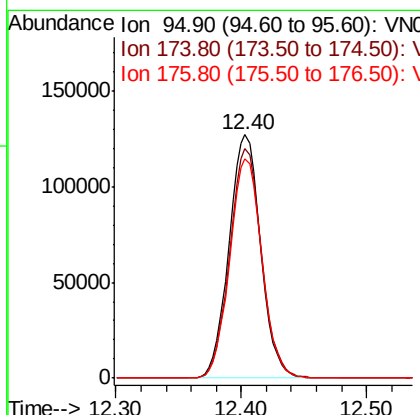
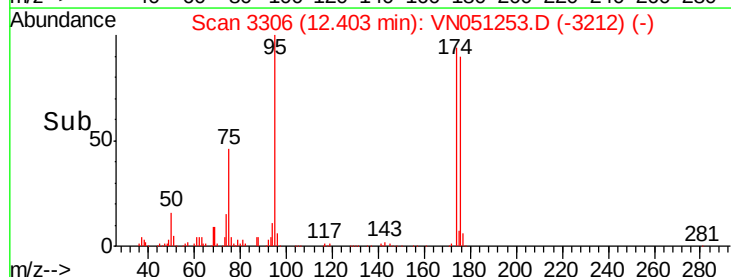
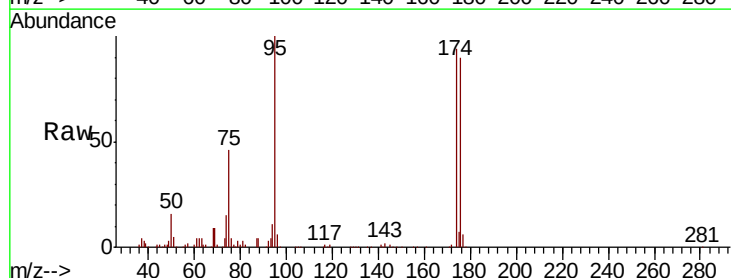
Instrument :
MSVOA_N
ClientSampleId :

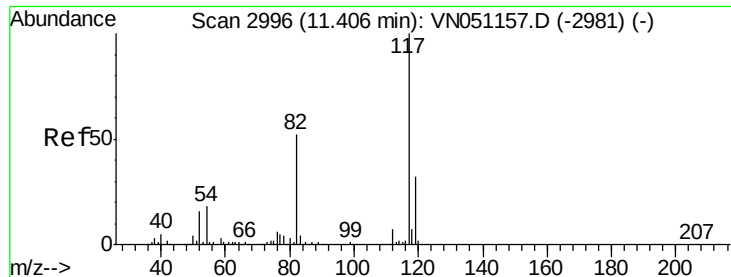
Tot Ion: 43 Resp: 9038
Ion Ratio Lower Upper
43 100
58 32.6 29.3 88.0



#62
4-Bromofluorobenzene
Concen: 35.21 ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.00 min
Lab File: VN051253.D
Acq: 16 Sep 2018 4:36

Tgt Ion: 95 Resp: 222330
Ion Ratio Lower Upper
95 100
174 94.8 0.0 184.8
176 91.5 0.0 178.6

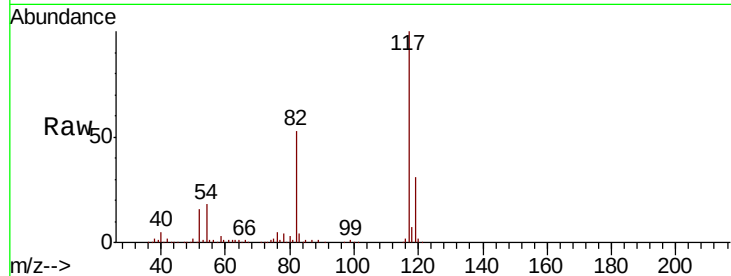




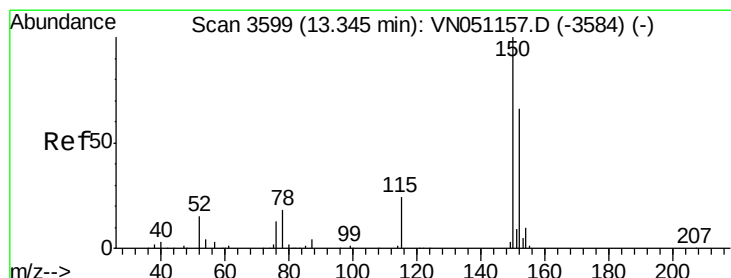
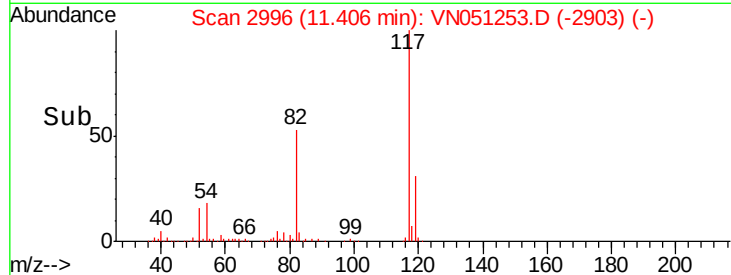
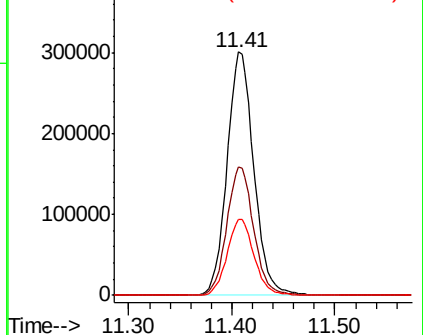
#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. -0.00 min
Lab File: VN051253.D
Acq: 16 Sep 2018 4:36

Instrument :
MSVOA_N
ClientSampled :

Tot Ion	Ratio	Lower	Upper
117	100		
82	52.7	41.8	62.6
119	31.3	26.2	39.2

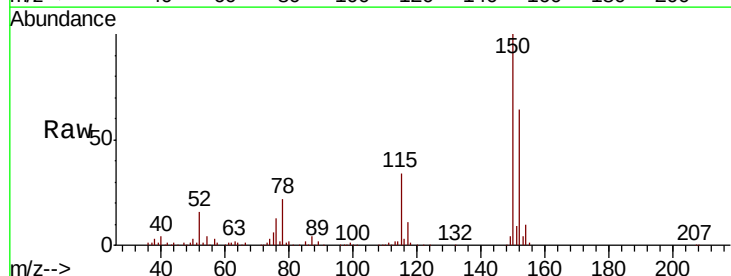


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

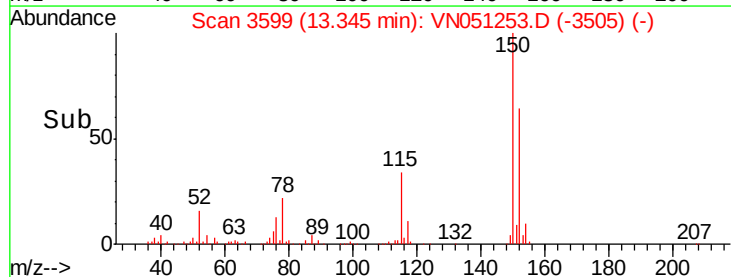
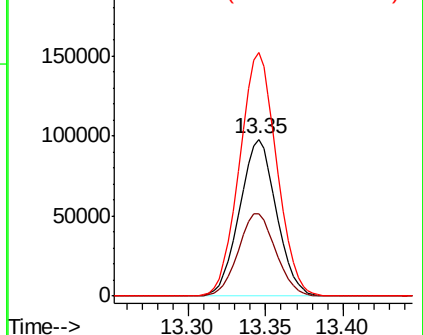


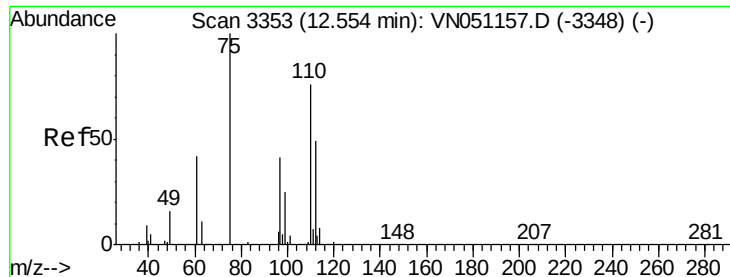
#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 13.35 min Scan# 3599
Delta R.T. 0.00 min
Lab File: VN051253.D
Acq: 16 Sep 2018 4:36

Tgt Ion	Ratio	Lower	Upper
152	100		
115	53.7	28.2	84.7
150	157.4	0.0	349.0



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





#76

1,2,3-Trichloropropane

Concen: 41.68 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. -0.15 min

Lab File: VN051253.D

Acq: 16 Sep 2018 4:36

Instrument :

MSVOA_N

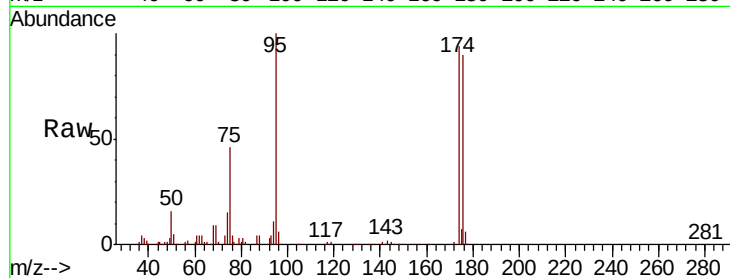
ClientSampleId :

Tot Ion: 75 Resp: 105332

Ion Ratio Lower Upper

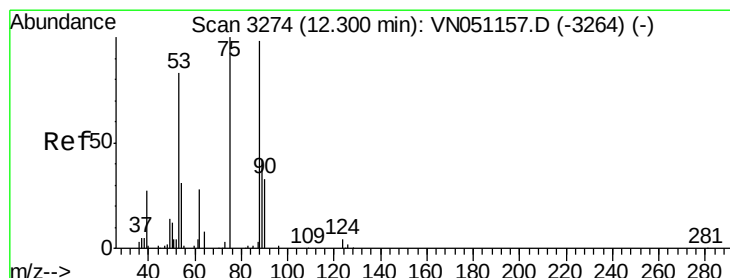
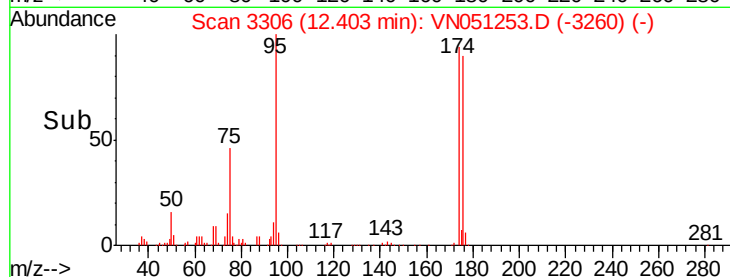
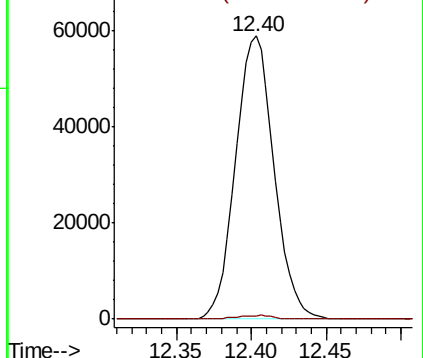
75 100

77 1.3 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 77.00 (76.70 to 77.70): VNO



#81

trans-1,4-Dichloro-2-butene

Concen: 123.44 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.10 min

Lab File: VN051253.D

Acq: 16 Sep 2018 4:36

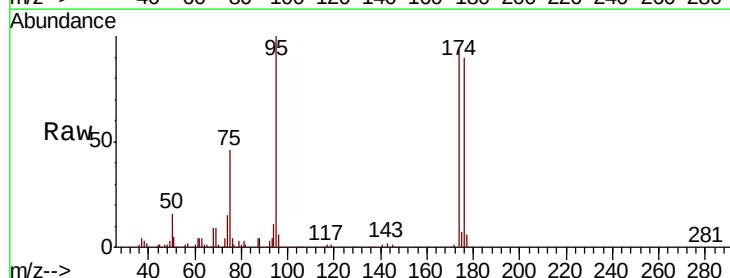
Tgt Ion: 75 Resp: 105332

Ion Ratio Lower Upper

75 100

53 0.1 67.8 101.8#

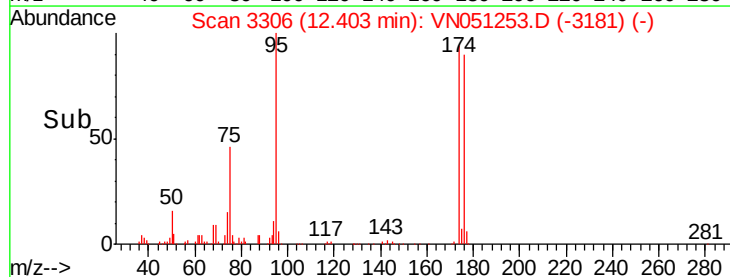
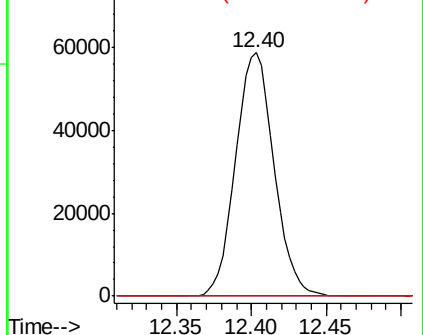
89 0.0 36.0 54.0#

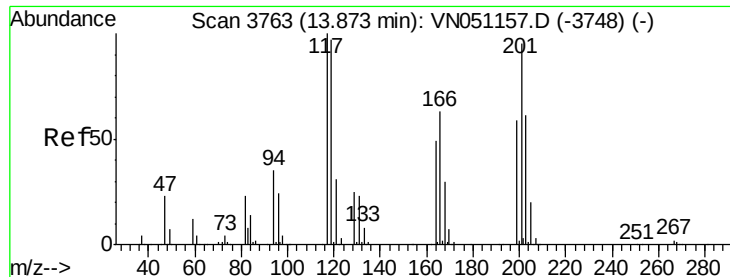


Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 53.00 (52.70 to 53.70): VNO

Ion 88.90 (88.60 to 89.60): VNO





#90

Hexachloroethane

Concen: Below Cal

RT: 13.99 min Scan# 3800

Delta R.T. 0.12 min

Lab File: VN051253.D

Acq: 16 Sep 2018 4:36

Instrument :

MSVOA_N

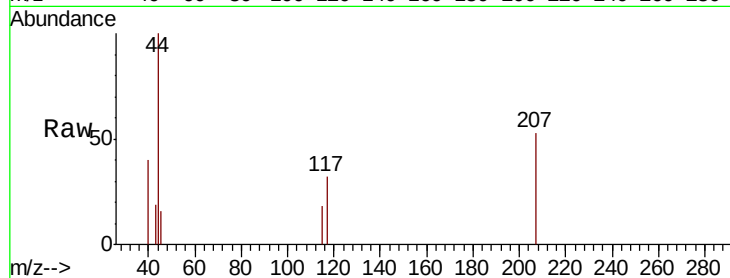
ClientSampleId :

Tot Ion:117 Resp: 412

Ion Ratio Lower Upper

117 100

201 0.0 47.3 142.0#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 200.70 (200.40 to 201.40): V

13.99

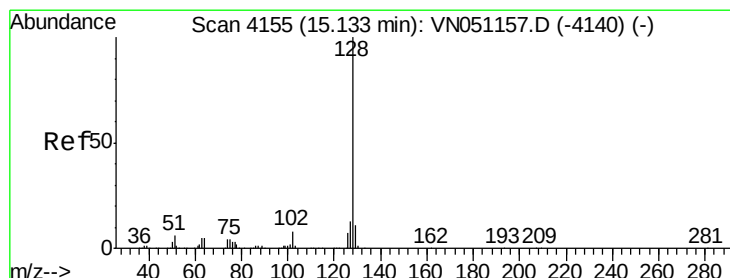
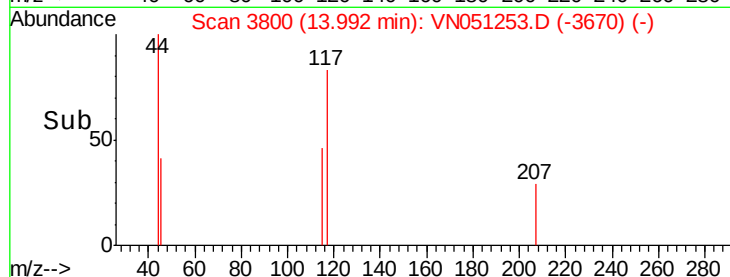
300

200

100

0

Time-->



#95

Naphthalene

Concen: 7.11 ug/l

RT: 15.13 min Scan# 4155

Delta R.T. -0.00 min

Lab File: VN051253.D

Acq: 16 Sep 2018 4:36

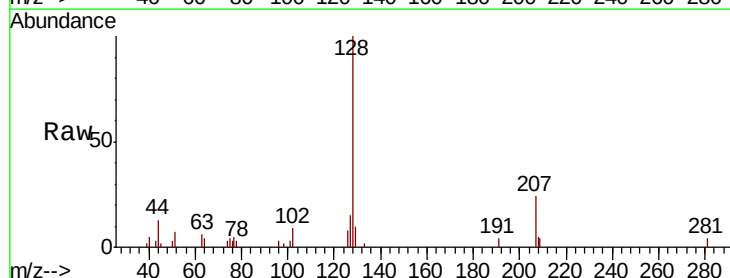
Tgt Ion:128 Resp: 12079

Ion Ratio Lower Upper

128 100

127 14.0 10.6 15.8

129 8.6 8.6 12.8



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

15.13

10000

8000

6000

4000

2000

0

Time-->

