

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN081618\
 Data File : VN050712.D
 Acq On : 16 Aug 2018 19:39
 Operator : MD\SY
 Sample : J4500-04
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 25 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

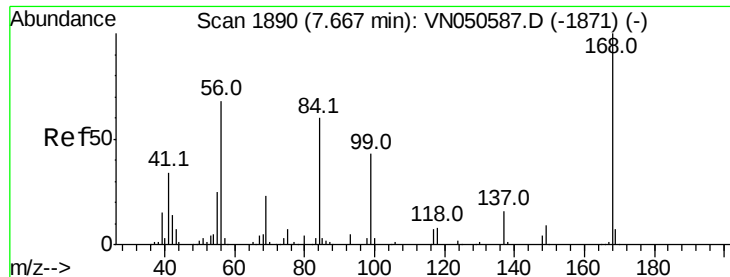
Quant Time: Aug 17 04:33:49 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N081418W.M
 Quant Title : SW846 8260
 QLast Update : Tue Aug 14 08:07:08 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	606309	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1016647	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	883783	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	334068	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	428336	56.05	ug/l	0.00
Spiked Amount			Recovery	=	112.10%	
35) Dibromofluoromethane	7.60	113	397720	49.00	ug/l	0.00
Spiked Amount			Recovery	=	98.00%	
50) Toluene-d8	10.09	98	1407980	46.09	ug/l	0.00
Spiked Amount			Recovery	=	92.18%	
62) 4-Bromofluorobenzene	12.40	95	393947	39.04	ug/l	0.00
Spiked Amount			Recovery	=	78.08%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.06	50	2065	Below Cal		95
5) Bromomethane	2.56	94	2705	Below Cal		84
6) Chloroethane	2.70	64	30	Below Cal	#	1
10) Methyl Iodide	3.96	142	530	7.038	ug/l #	42
11) Tert butyl alcohol	4.78	59	319	0.764	ug/l #	72
14) Allyl chloride	4.55	41	9621	0.940	ug/l #	25
16) Acetone	3.83	43	14177	6.014	ug/l	98
18) Methyl Acetate	4.33	43	16236	2.071	ug/l #	70
20) Methylene Chloride	4.55	84	256268	34.894	ug/l	98
25) 2-Butanone	6.85	43	8252	2.633	ug/l	94
30) Chloroform	7.38	83	4538	0.330	ug/l #	83
31) Cyclohexane	7.67	56	11335	0.637	ug/l #	1
36) 1,1-Dichloropropene	7.67	75	42135	3.723	ug/l #	49
38) Carbon Tetrachloride	7.67	117	54952	4.681	ug/l #	18
43) Isopropyl Acetate	8.17	43	259108	22.226	ug/l	93
48) Methyl methacrylate	9.18	41	8187	1.396	ug/l #	21
56) Ethyl methacrylate	10.24	69	2497	2.150	ug/l #	54
59) 2-Hexanone	10.76	43	17360	3.411	ug/l	63
70) Styrene	11.96	104	383	0.957	ug/l #	68
75) 1,1,2,2-Tetrachloroethane	12.54	83	31	Below Cal	#	26
76) 1,2,3-Trichloropropane	12.40	75	189099	34.721	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	189099	125.845	ug/l #	13
84) 1,2,4-Trimethylbenzene	13.04	105	10503	0.501	ug/l	99
90) Hexachloroethane	13.89	117	910	0.225	ug/l #	4
95) Naphthalene	15.13	128	82055	9.754	ug/l	96

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1891

Delta R.T. 0.00 min

Lab File: VN050712.D

Acq: 16 Aug 2018 19:39

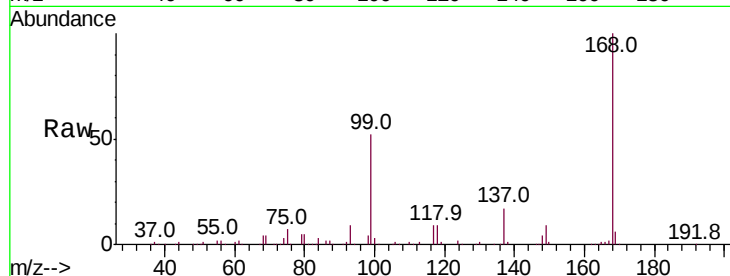
Instrument :
MSVOA_N
ClientSampled :

Tot Ion:168 Resp: 606309

Ion Ratio Lower Upper

168 100

99 51.5 40.8 61.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

300000

250000

200000

150000

100000

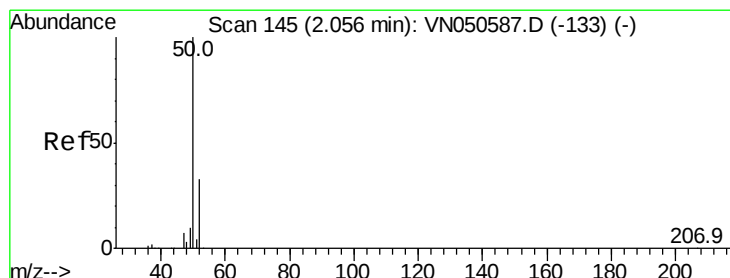
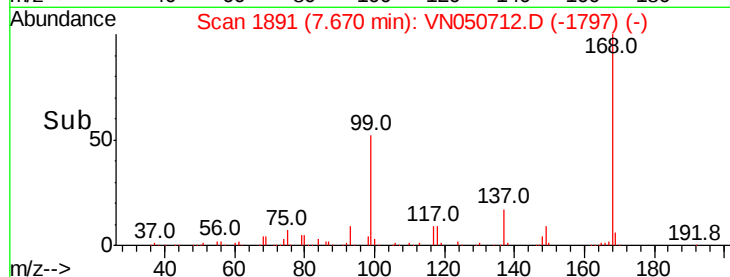
50000

0

7.67

7.60 7.70

Time-->



#3

Chloromethane

Concen: Below Cal

RT: 2.06 min Scan# 145

Delta R.T. 0.00 min

Lab File: VN050712.D

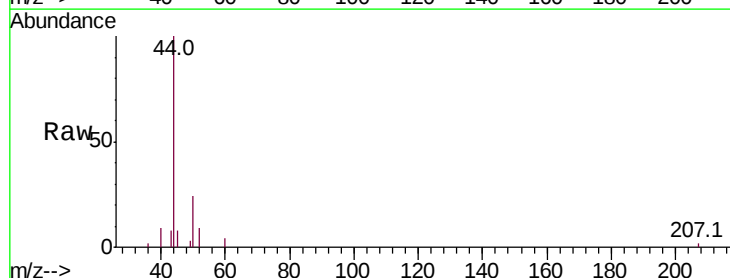
Acq: 16 Aug 2018 19:39

Tgt Ion: 50 Resp: 2065

Ion Ratio Lower Upper

50 100

52 35.6 26.0 39.0



Abundance Ion 49.90 (49.60 to 50.60): VNO

Ion 51.90 (51.60 to 52.60): VNO

1500

1000

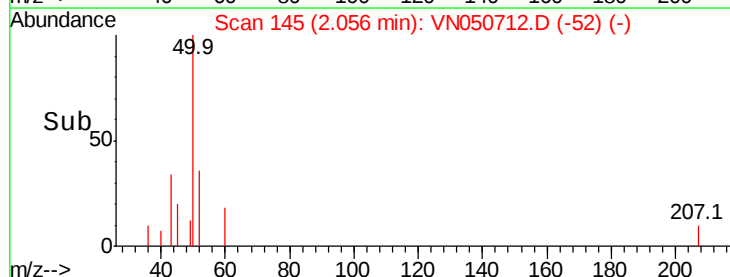
500

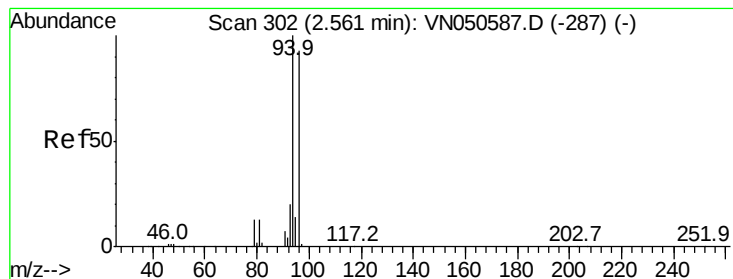
0

2.06

2.02 2.04 2.06 2.08 2.10

Time-->





#5

Bromomethane

Concen: Below Cal

RT: 2.56 min Scan# 303

Delta R.T. 0.00 min

Lab File: VN050712.D

Acq: 16 Aug 2018 19:39

Instrument :

MSVOA_N

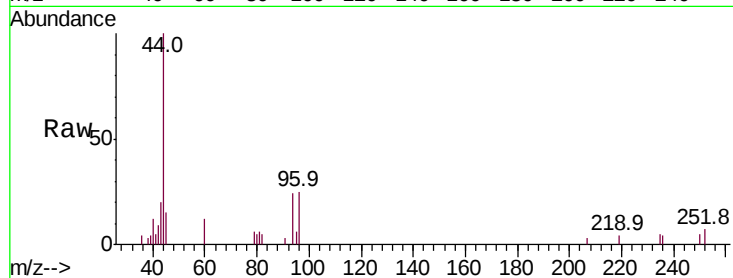
ClientSampled :

Tot Ion: 94 Resp: 2705

Ion Ratio Lower Upper

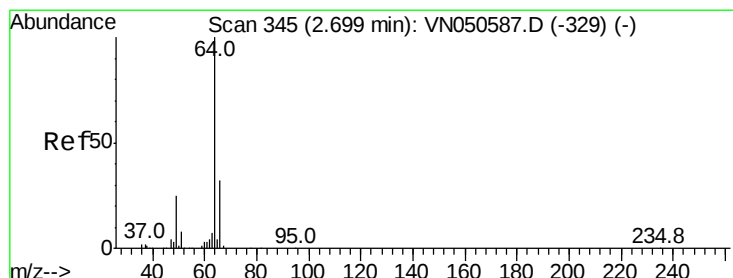
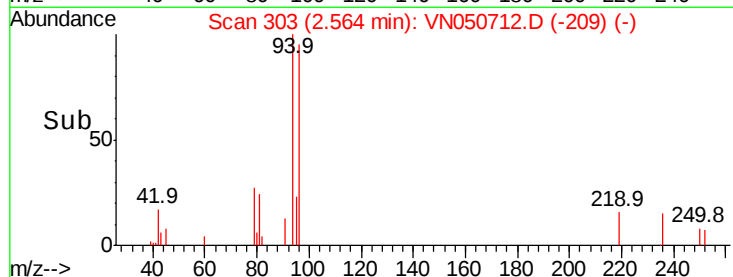
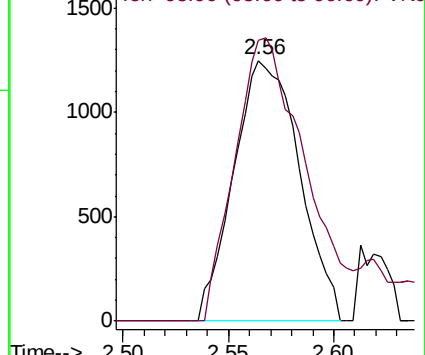
94 100

96 107.6 74.0 111.0



Abundance Ion 93.90 (93.60 to 94.60): VN0

Ion 95.90 (95.60 to 96.60): VN0



#6

Chloroethane

Concen: Below Cal

RT: 2.70 min Scan# 346

Delta R.T. 0.00 min

Lab File: VN050712.D

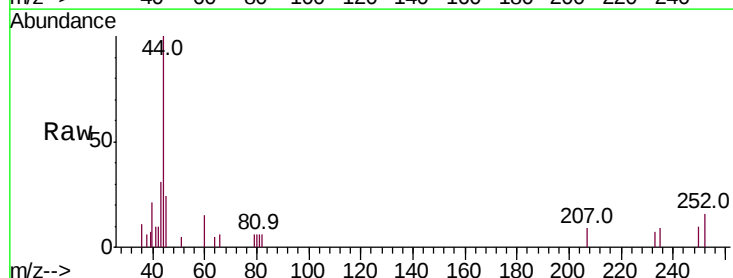
Acq: 16 Aug 2018 19:39

Tgt Ion: 64 Resp: 30

Ion Ratio Lower Upper

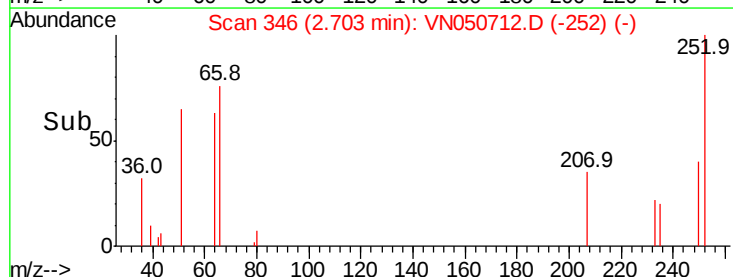
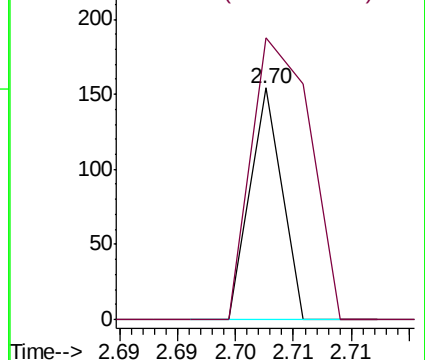
64 100

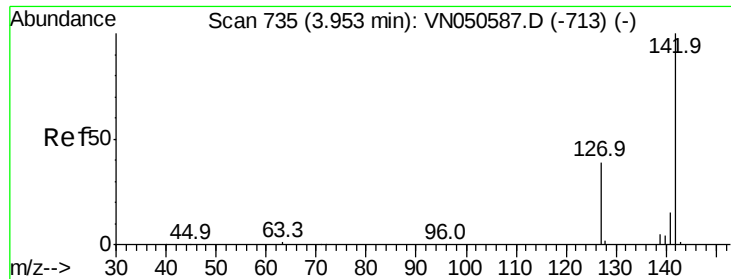
66 122.1 25.7 38.5#



Abundance Ion 63.90 (63.60 to 64.60): VN0

Ion 65.90 (65.60 to 66.60): VN0

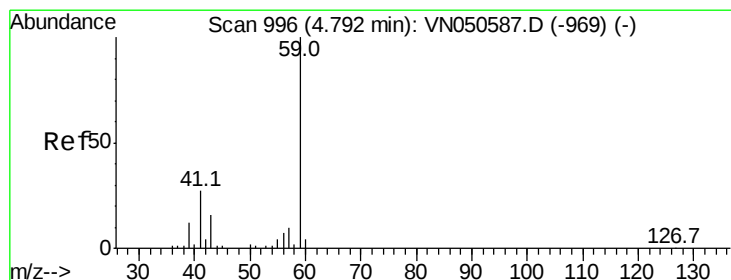
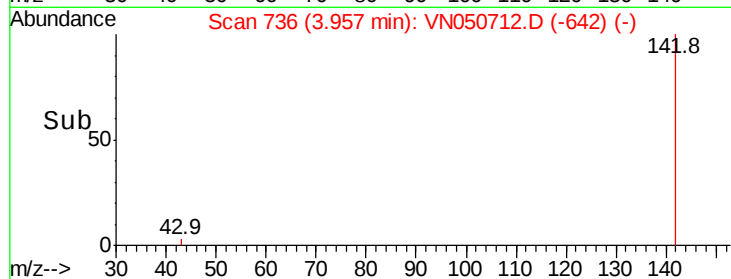
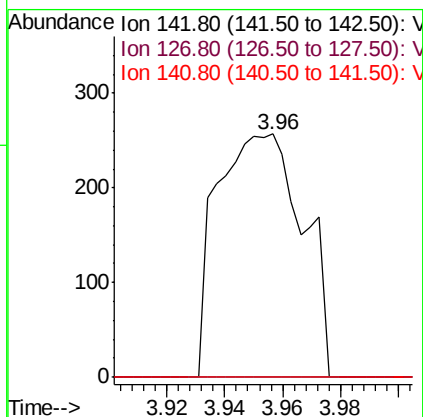
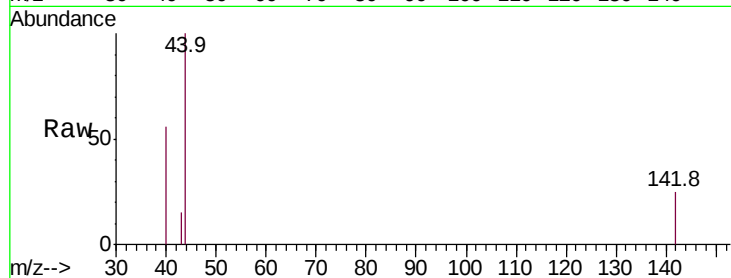




#10
Methvl Iodide
Concen: 7.038 ug/l
RT: 3.96 min Scan# 736
Delta R.T. 0.00 min
Lab File: VN050712.D
Acq: 16 Aug 2018 19:39

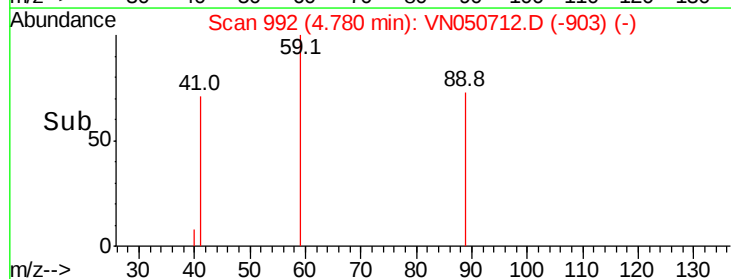
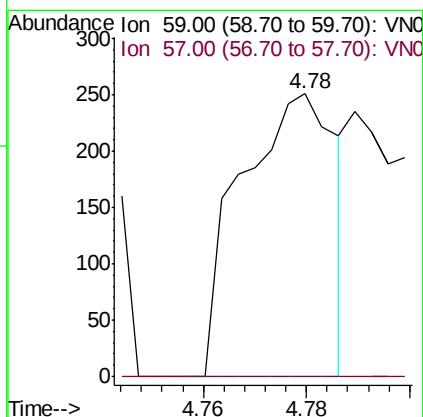
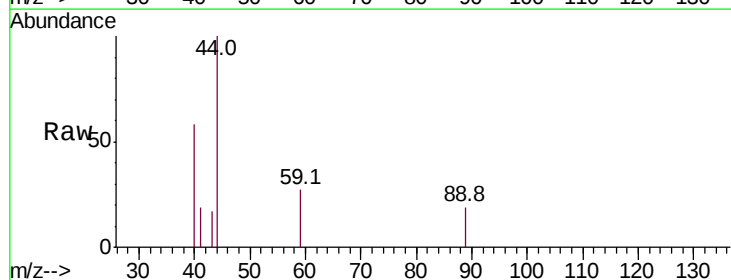
Instrument :
MSVOA_N
ClientSampleId :

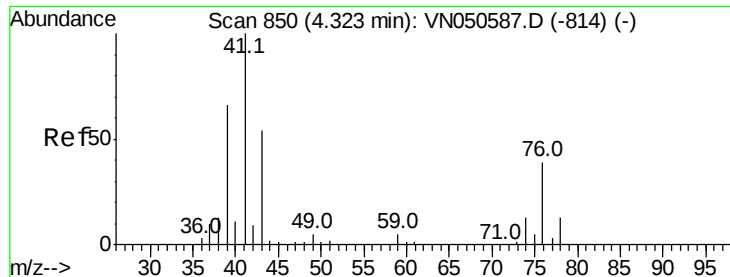
Tot Ion:142 Resp: 530
Ion Ratio Lower Upper
142 100
127 0.0 32.6 49.0#
141 0.0 11.5 17.3#



#11
Tert butyl alcohol
Concen: 0.764 ug/l
RT: 4.78 min Scan# 992
Delta R.T. -0.01 min
Lab File: VN050712.D
Acq: 16 Aug 2018 19:39

Tgt Ion: 59 Resp: 319
Ion Ratio Lower Upper
59 100
57 0.0 8.4 12.6#

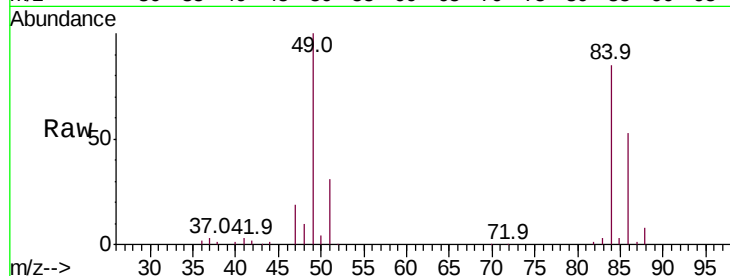




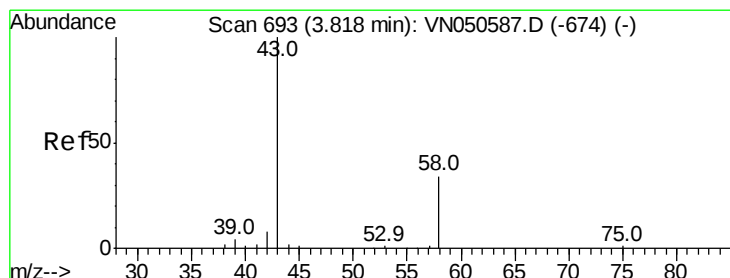
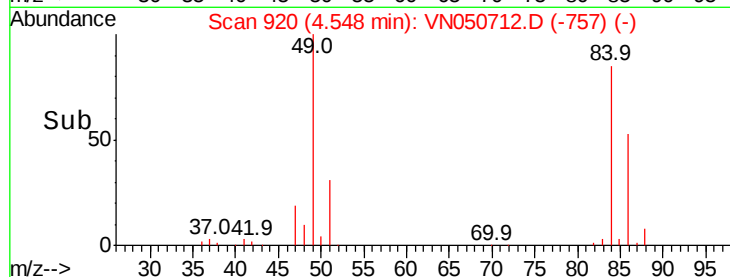
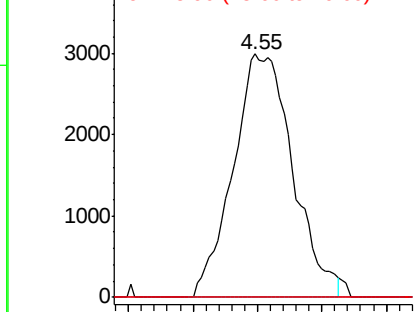
#14
Allvl chloride
Concen: 0.940 ug/l
RT: 4.55 min Scan# 920
Delta R.T. 0.23 min
Lab File: VN050712.D
Acq: 16 Aug 2018 19:39

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion: 41 Resp: 9621
Ion Ratio Lower Upper
41 100
39 0.0 51.4 77.0#
76 0.0 29.4 44.0#

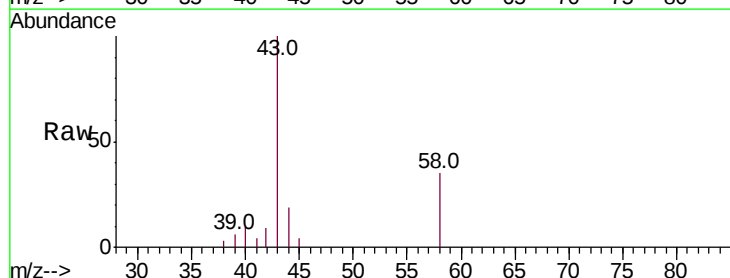


Abundance Ion 41.00 (40.70 to 41.70): VNC
Ion 39.00 (38.70 to 39.70): VNC
Ion 75.90 (75.60 to 76.60): VNC

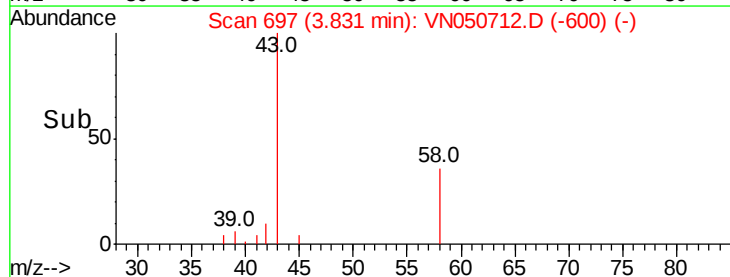
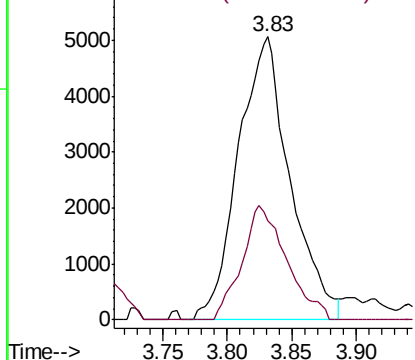


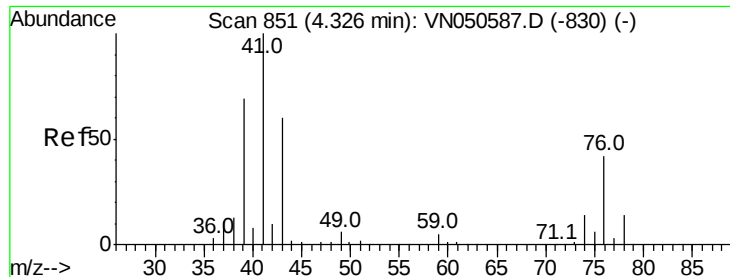
#16
Acetone
Concen: 6.014 ug/l
RT: 3.83 min Scan# 697
Delta R.T. 0.01 min
Lab File: VN050712.D
Acq: 16 Aug 2018 19:39

Tgt Ion: 43 Resp: 14177
Ion Ratio Lower Upper
43 100
58 34.8 27.1 40.7



Abundance Ion 43.00 (42.70 to 43.70): VNC
Ion 58.00 (57.70 to 58.70): VNC

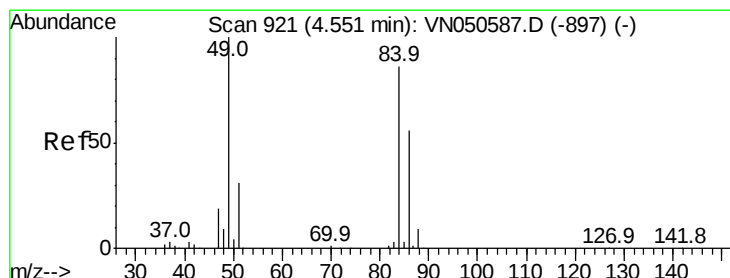
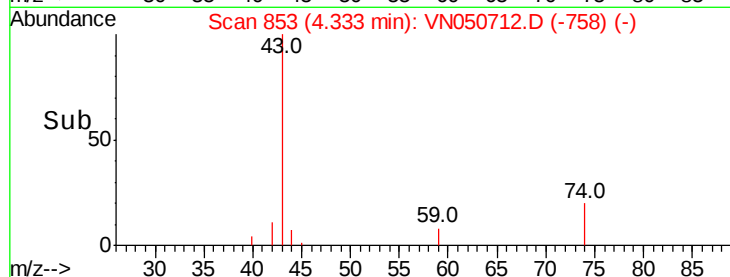
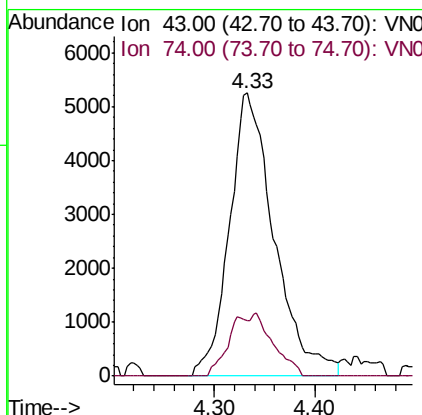
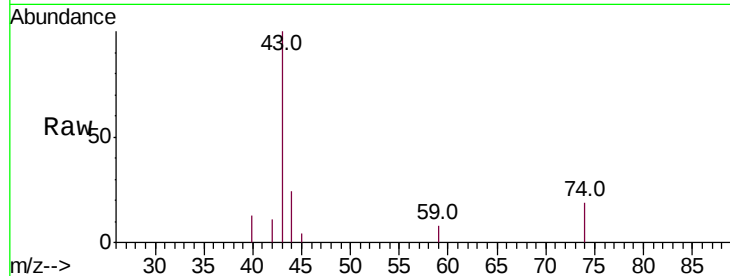




#18
Methyl Acetate
Concen: 2.071 ug/l
RT: 4.33 min Scan# 853
Delta R.T. 0.01 min
Lab File: VN050712.D
Acq: 16 Aug 2018 19:39

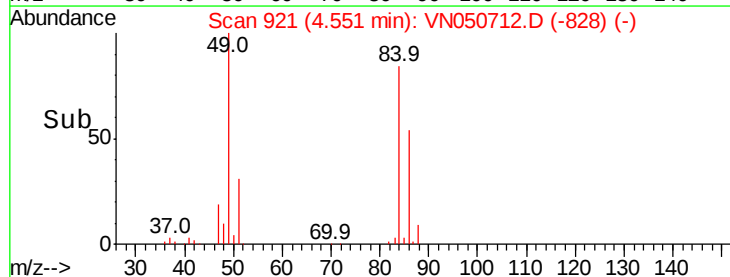
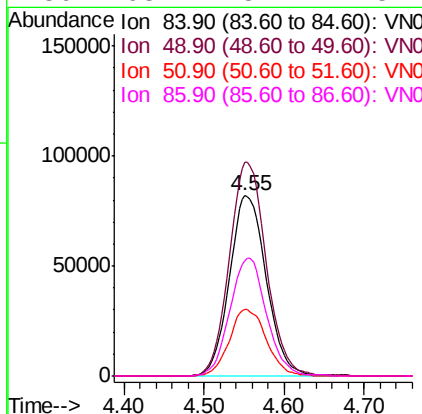
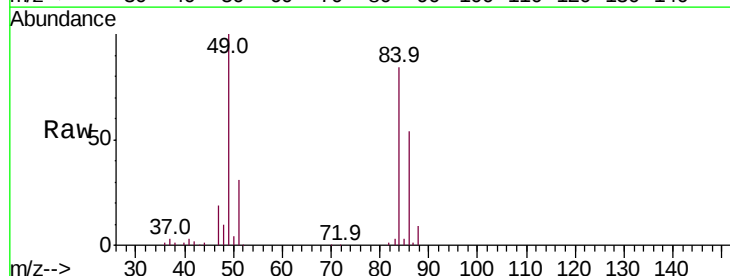
Instrument :
MSVOA_N
ClientSampled :

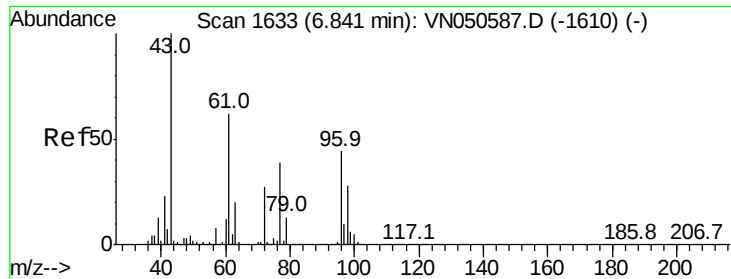
Tot Ion: 43 Resp: 16236
Ion Ratio Lower Upper
43 100
74 9.6 19.7 29.5#



#20
Methylene Chloride
Concen: 34.894 ug/l
RT: 4.55 min Scan# 921
Delta R.T. 0.00 min
Lab File: VN050712.D
Acq: 16 Aug 2018 19:39

Tgt Ion: 84 Resp: 256268
Ion Ratio Lower Upper
84 100
49 118.7 92.6 138.8
51 36.9 28.6 43.0
86 63.7 52.2 78.2

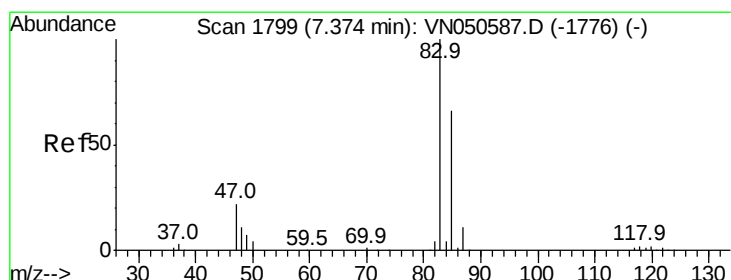
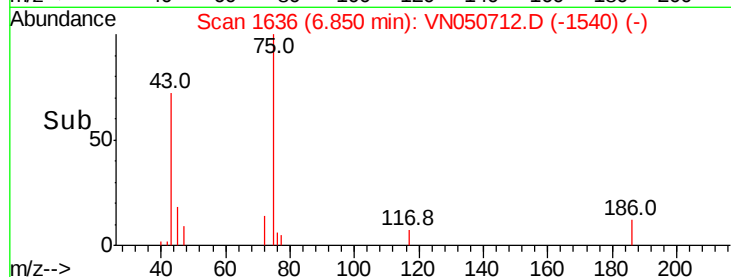
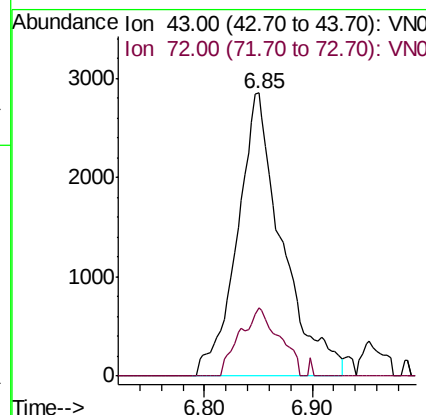
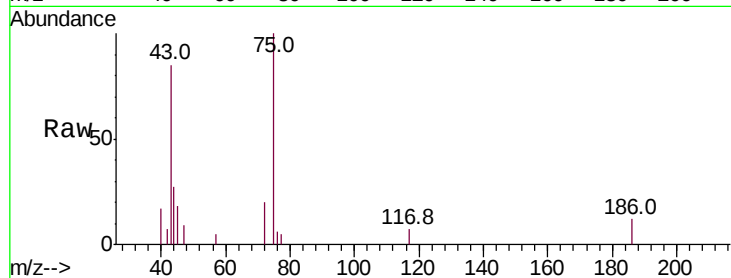




#25
2-Butanone
Concen: 2.633 ug/l
RT: 6.85 min Scan# 1636
Delta R.T. 0.01 min
Lab File: VN050712.D
Acq: 16 Aug 2018 19:39

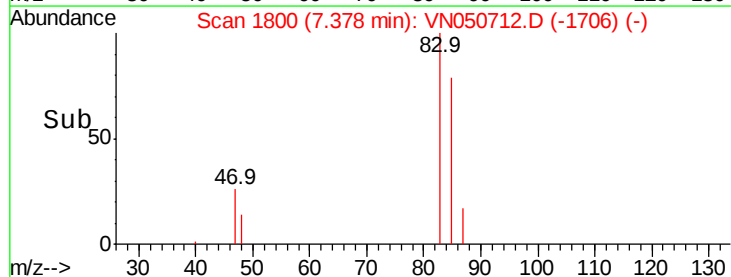
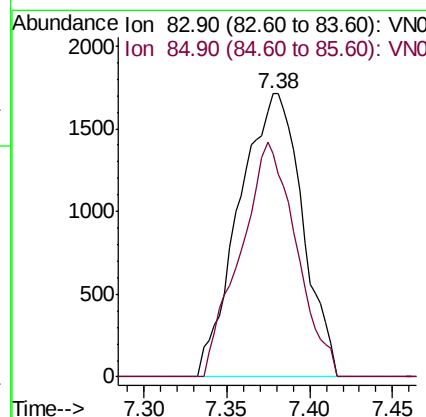
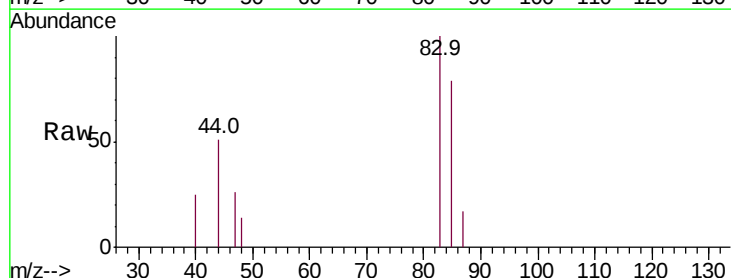
Instrument :
MSVOA_N
ClientSampleId :

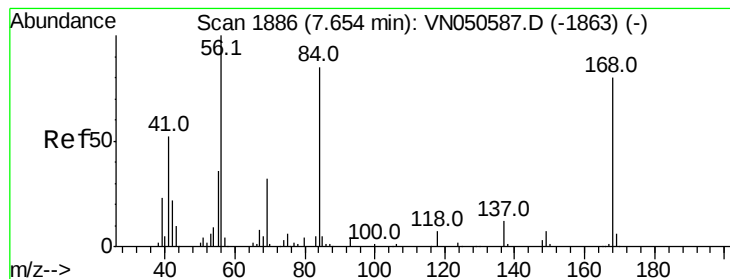
Tot Ion: 43 Resp: 8252
Ion Ratio Lower Upper
43 100
72 24.1 21.8 32.6



#30
Chloroform
Concen: 0.330 ug/l
RT: 7.38 min Scan# 1800
Delta R.T. 0.00 min
Lab File: VN050712.D
Acq: 16 Aug 2018 19:39

Tgt Ion: 83 Resp: 4538
Ion Ratio Lower Upper
83 100
85 78.7 52.5 78.7#





#31

Cyclohexane

Concen: 0.637 ug/l

RT: 7.67 min Scan# 1890

Delta R.T. 0.01 min

Lab File: VN050712.D

Acq: 16 Aug 2018 19:39

Instrument :

MSVOA_N

ClientSampleId :

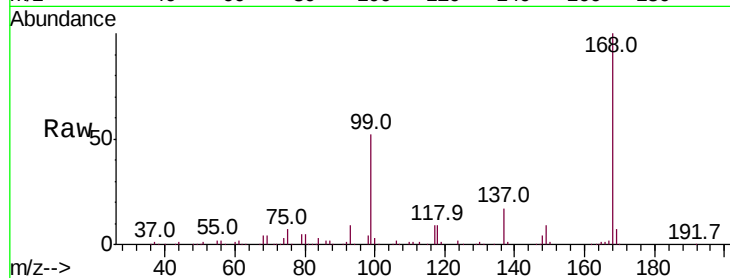
Tot Ion: 56 Resp: 11335

Ion Ratio Lower Upper

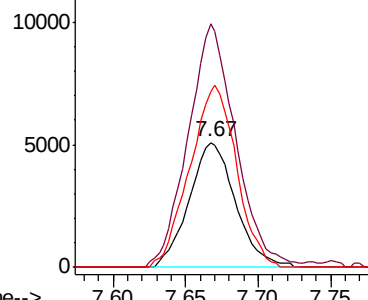
56 100

69 191.6 25.8 38.6#

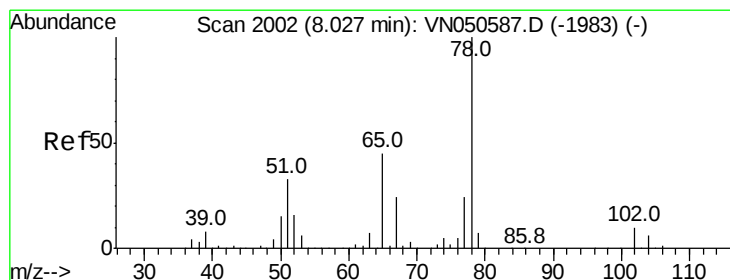
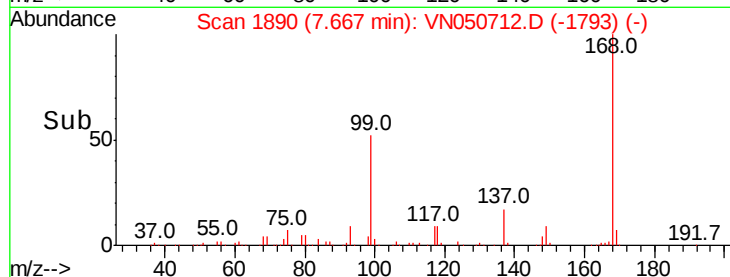
84 140.9 67.8 101.6#



Abundance Ion 56.00 (55.70 to 56.70): VNC
Ion 69.00 (68.70 to 69.70): VNC
Ion 84.00 (83.70 to 84.70): VNC



Time-->



#33

1,2-Dichloroethane-d4

Concen: 56.046 ug/l

RT: 8.03 min Scan# 2003

Delta R.T. 0.00 min

Lab File: VN050712.D

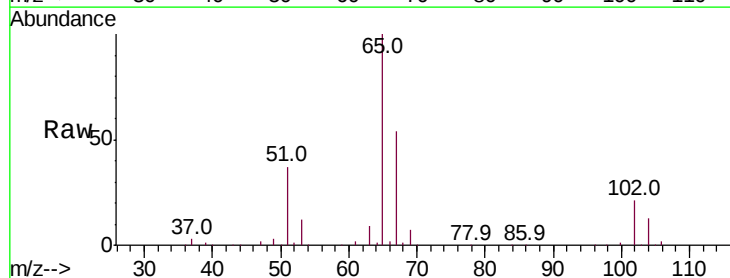
Acq: 16 Aug 2018 19:39

Tgt Ion: 65 Resp: 428336

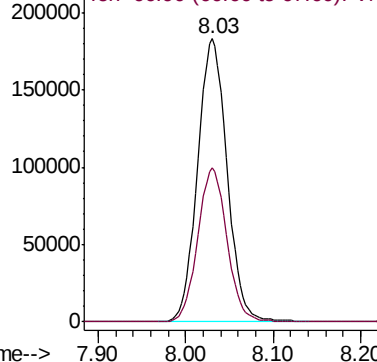
Ion Ratio Lower Upper

65 100

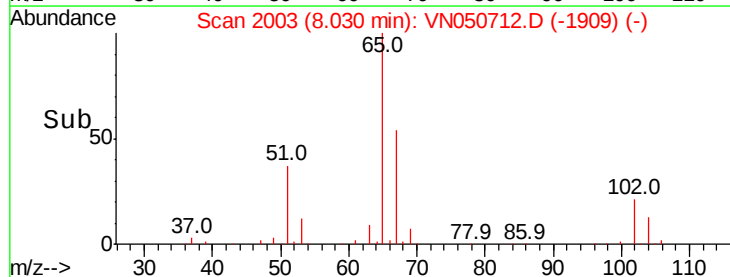
67 54.1 0.0 109.8

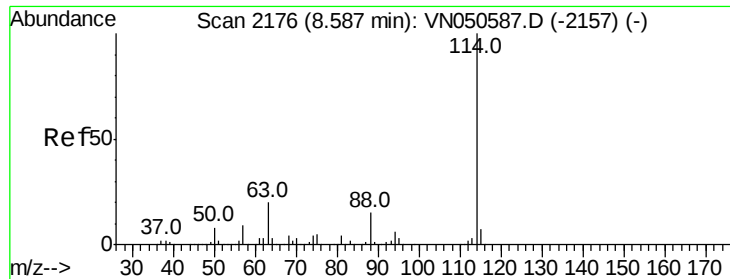


Abundance Ion 64.90 (64.60 to 65.60): VNC
Ion 66.90 (66.60 to 67.60): VNC



Time-->

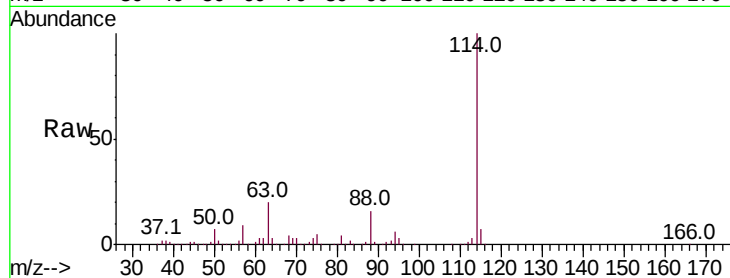




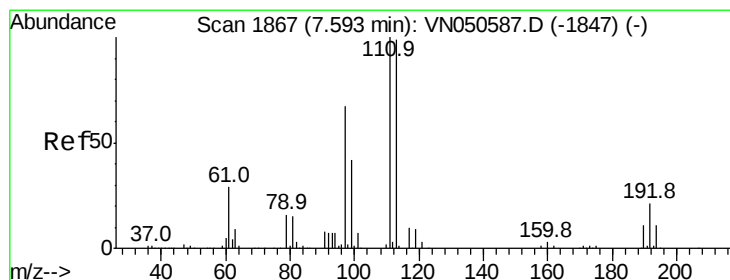
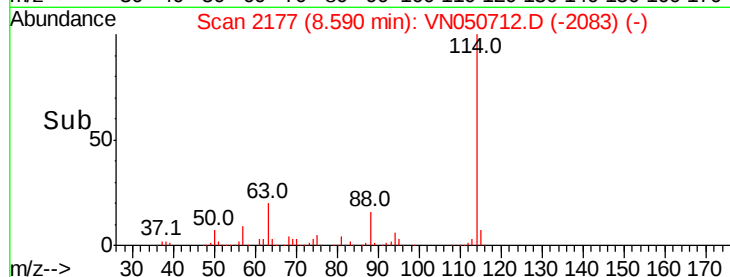
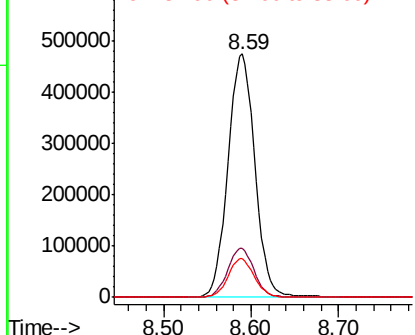
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2177
 Delta R.T. 0.00 min
 Lab File: VN050712.D
 Acq: 16 Aug 2018 19:39

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion:114 Resp: 1016647
 Ion Ratio Lower Upper
 114 100
 63 20.2 0.0 40.0
 88 15.8 0.0 30.8

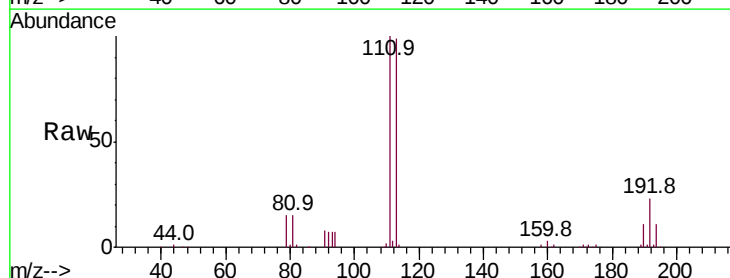


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VN
 Ion 87.90 (87.60 to 88.60): VN

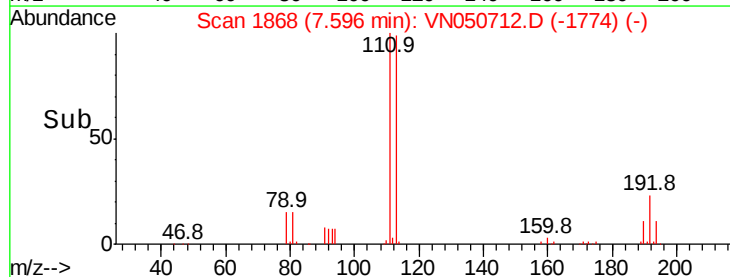
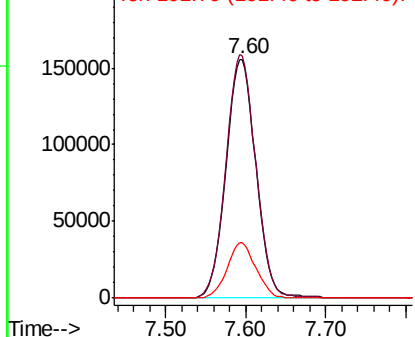


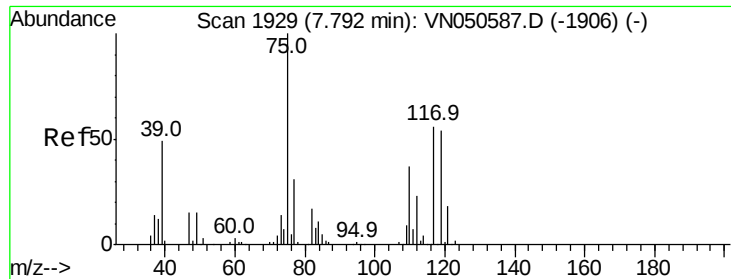
#35
 Dibromofluoromethane
 Concen: 49.001 ug/l
 RT: 7.60 min Scan# 1868
 Delta R.T. 0.00 min
 Lab File: VN050712.D
 Acq: 16 Aug 2018 19:39

Tgt Ion:113 Resp: 397720
 Ion Ratio Lower Upper
 113 100
 111 101.7 81.0 121.6
 192 22.3 17.6 26.4



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: 3.723 ug/l

RT: 7.67 min Scan# 1890

Delta R.T. -0.13 min

Lab File: VN050712.D

Acq: 16 Aug 2018 19:39

Instrument :
MSVOA_N
ClientSampled :

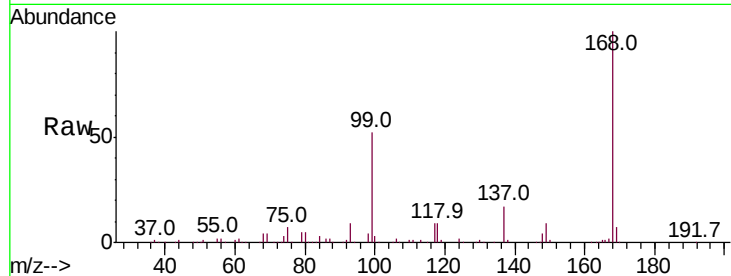
Tot Ion: 75 Resp: 42135

Ion Ratio Lower Upper

75 100

110 9.4 18.3 54.9#

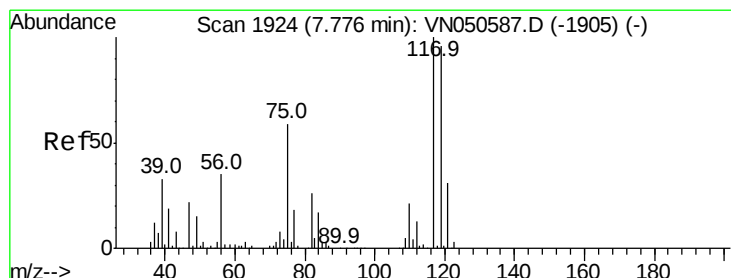
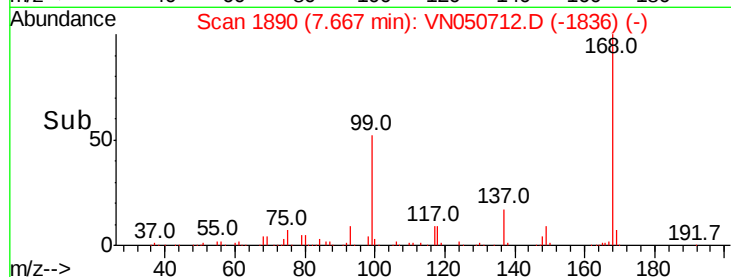
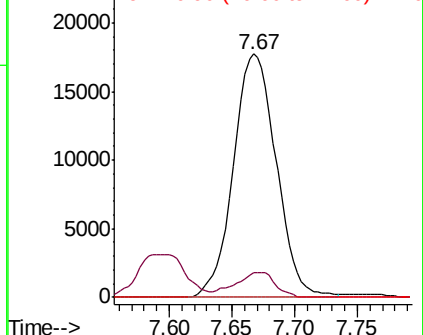
77 0.0 25.0 37.4#



Abundance Ion 74.90 (74.60 to 75.60): VN050587.D (-1906) (-)

Ion 109.90 (109.60 to 110.60): VN050587.D (-1906) (-)

Ion 76.90 (76.60 to 77.60): VN050587.D (-1906) (-)



#38

Carbon Tetrachloride

Concen: 4.681 ug/l

RT: 7.67 min Scan# 1891

Delta R.T. -0.11 min

Lab File: VN050712.D

Acq: 16 Aug 2018 19:39

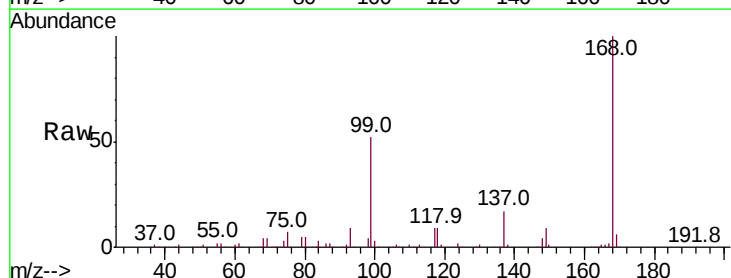
Tgt Ion: 117 Resp: 54952

Ion Ratio Lower Upper

117 100

119 7.2 76.6 115.0#

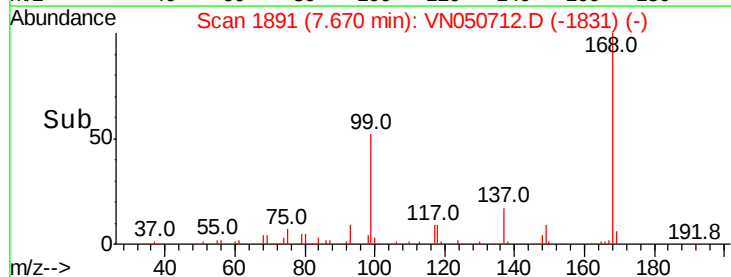
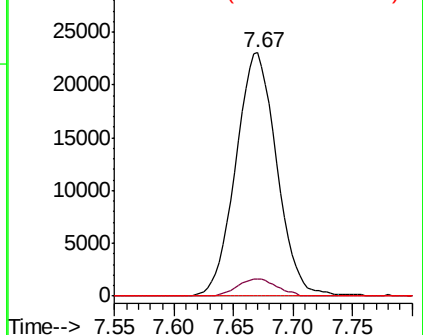
121 0.0 25.0 37.6#

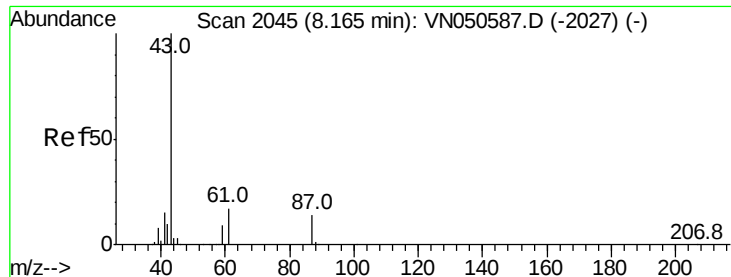


Abundance Ion 116.80 (116.50 to 117.50): VN050587.D (-1905) (-)

Ion 118.80 (118.50 to 119.50): VN050587.D (-1905) (-)

Ion 120.80 (120.50 to 121.50): VN050587.D (-1905) (-)



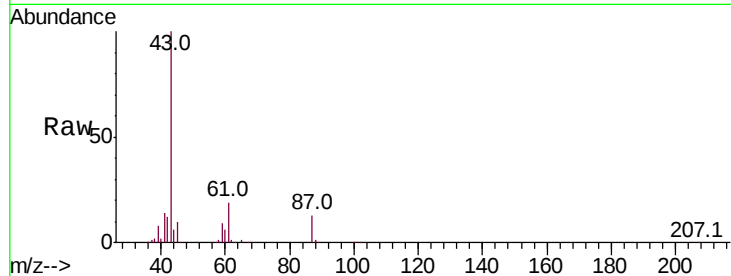


#43

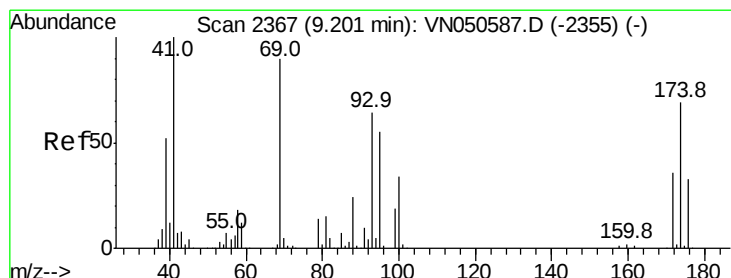
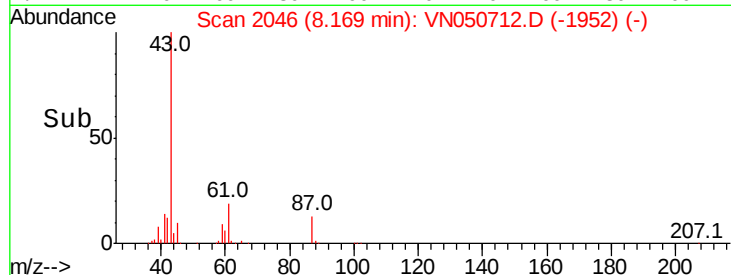
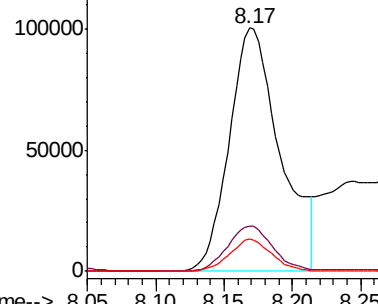
Isopropyl Acetate
 Concen: 22.226 ug/l
 RT: 8.17 min Scan# 2046
 Delta R.T. 0.00 min
 Lab File: VN050712.D
 Acq: 16 Aug 2018 19:39

Instrument :
 MSVOA_N
 ClientSampled :

Tot Ion	Ratio	Lower	Upper
43	100		
61	17.0	16.2	24.2
87	11.0	10.9	16.3



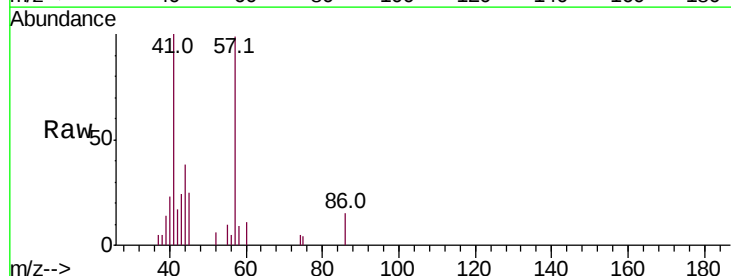
Abundance Ion 43.00 (42.70 to 43.70): VNC
 Ion 61.00 (60.70 to 61.70): VNC
 Ion 87.00 (86.70 to 87.70): VNC



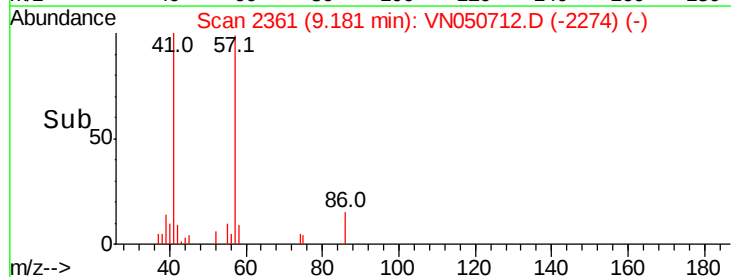
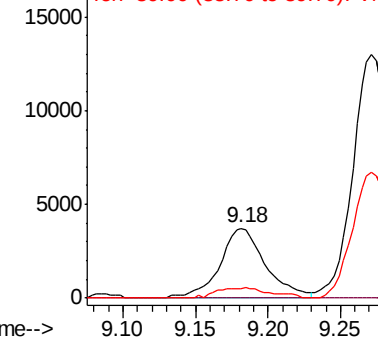
#48

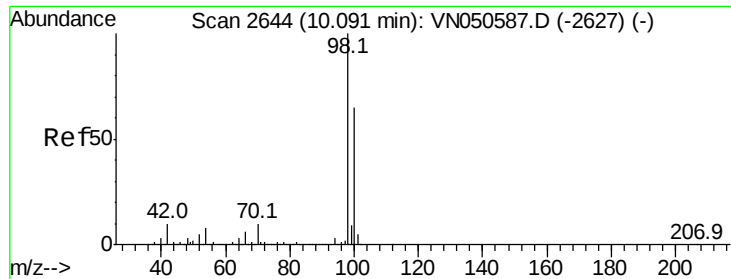
Methyl methacrylate
 Concen: 1.396 ug/l
 RT: 9.18 min Scan# 2361
 Delta R.T. -0.02 min
 Lab File: VN050712.D
 Acq: 16 Aug 2018 19:39

Tgt Ion	Ratio	Lower	Upper
41	100		
69	0.0	73.4	110.0#
39	17.6	43.0	64.6#



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: 46.092 ug/l

RT: 10.09 min Scan# 2645

Delta R.T. 0.00 min

Lab File: VN050712.D

Acq: 16 Aug 2018 19:39

Instrument :

MSVOA_N

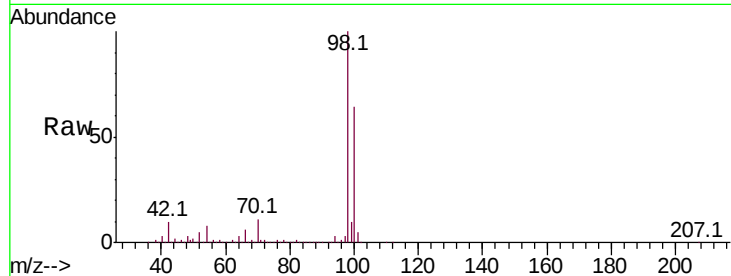
ClientSampled :

Tot Ion: 98 Resp: 1407980

Ion Ratio Lower Upper

98 100

100 63.9 51.8 77.8



Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN

10.09

800000

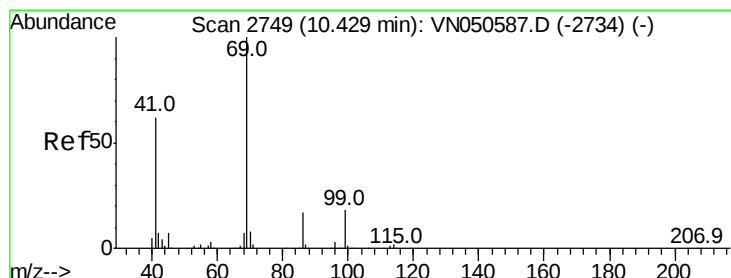
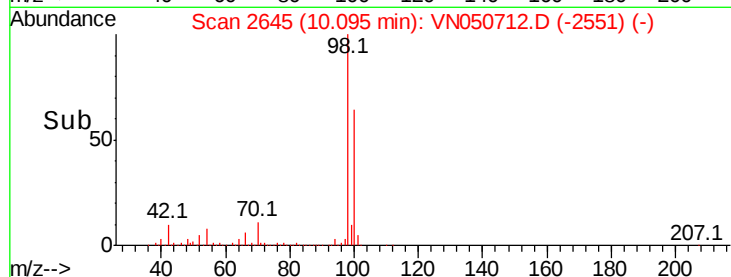
600000

400000

200000

0

Time-->



#56

Ethyl methacrylate

Concen: 2.150 ug/l

RT: 10.24 min Scan# 2689

Delta R.T. -0.19 min

Lab File: VN050712.D

Acq: 16 Aug 2018 19:39

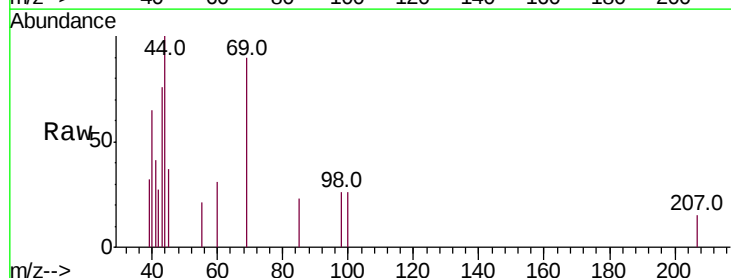
Tgt Ion: 69 Resp: 2497

Ion Ratio Lower Upper

69 100

41 10.8 49.7 74.5#

39 28.9 24.2 36.2



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

1200

1000

800

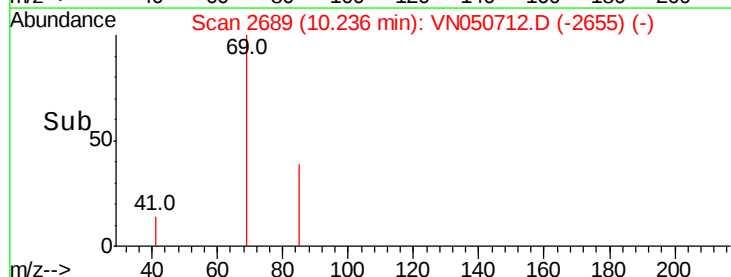
600

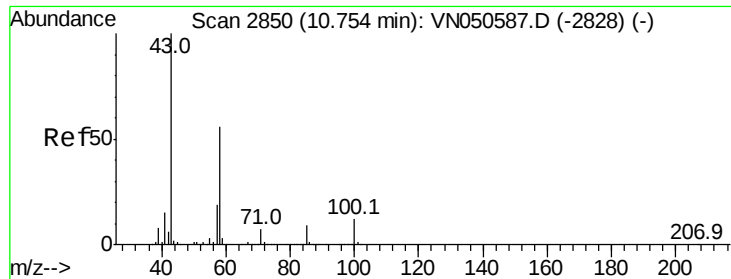
400

200

0

Time-->

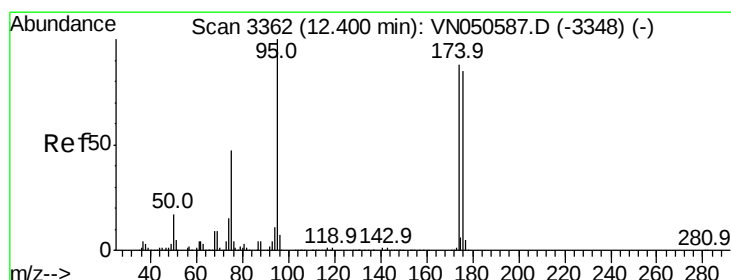
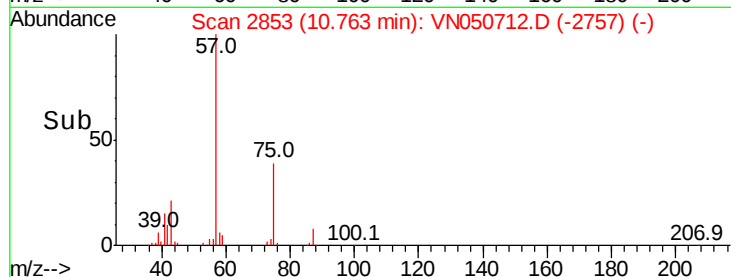
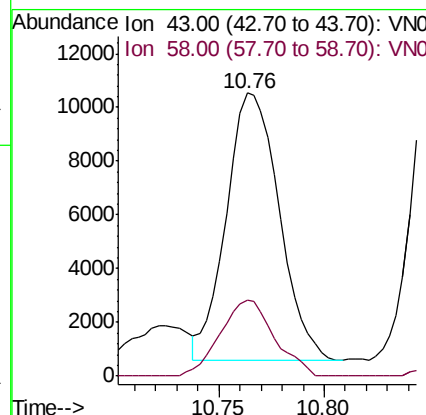
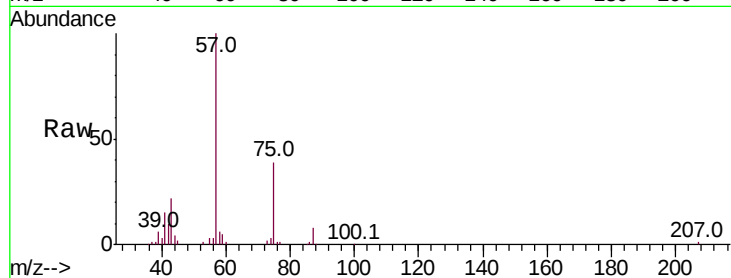




#59
2-Hexanone
Concen: 3.411 ug/l
RT: 10.76 min Scan# 2853
Delta R.T. 0.01 min
Lab File: VN050712.D
Acq: 16 Aug 2018 19:39

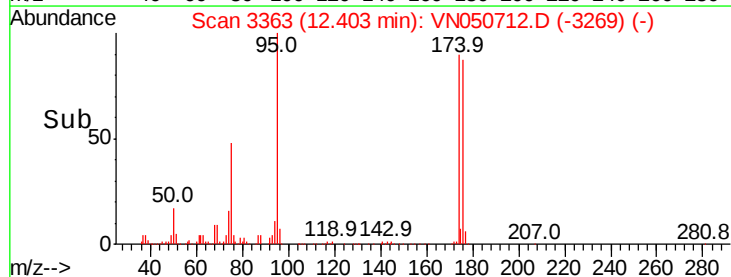
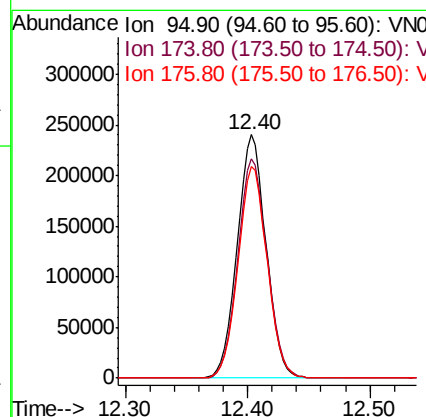
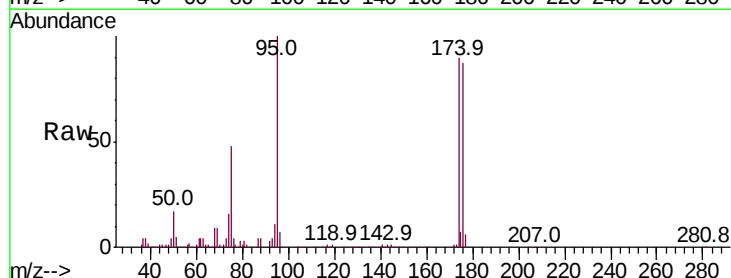
Instrument :
MSVOA_N
ClientSampled :

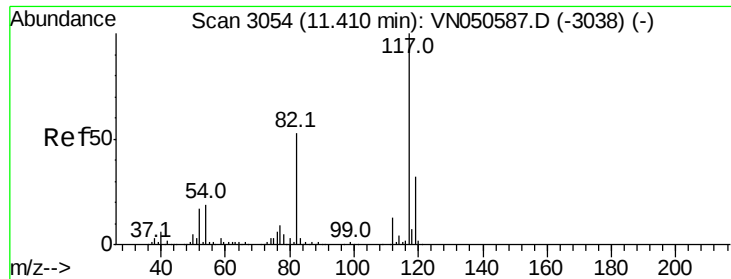
Tot Ion: 43 Resp: 17360
Ion Ratio Lower Upper
43 100
58 29.1 28.0 84.0



#62
4-Bromofluorobenzene
Concen: 39.037 ug/l
RT: 12.40 min Scan# 3363
Delta R.T. 0.00 min
Lab File: VN050712.D
Acq: 16 Aug 2018 19:39

Tgt Ion: 95 Resp: 393947
Ion Ratio Lower Upper
95 100
174 91.3 0.0 177.8
176 87.4 0.0 175.0

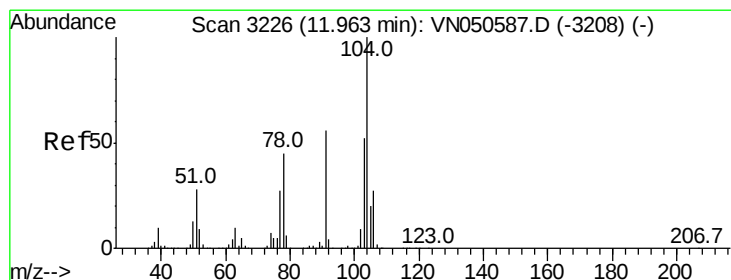
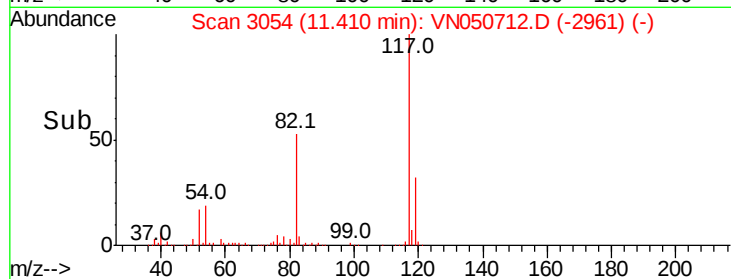
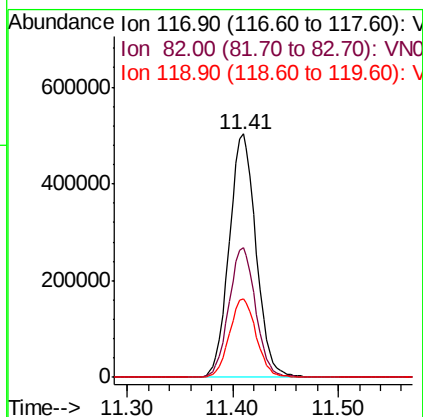
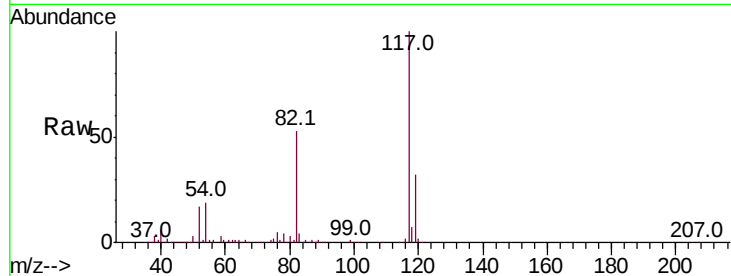




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 3054
Delta R.T. 0.00 min
Lab File: VN050712.D
Acq: 16 Aug 2018 19:39

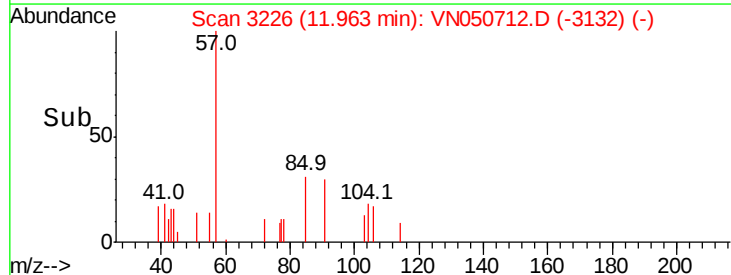
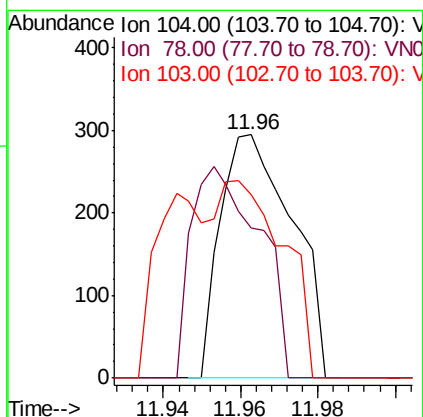
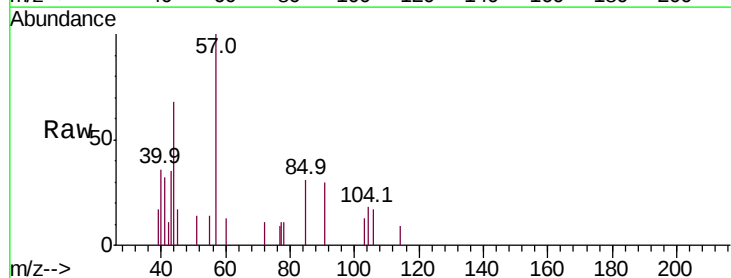
Instrument :
MSVOA_N
ClientSampleId :

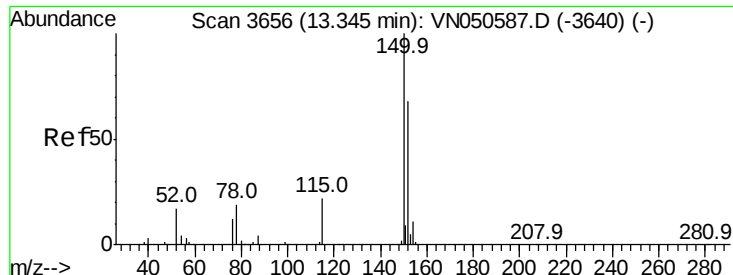
Tot Ion:117 Resp: 883783
Ion Ratio Lower Upper
117 100
82 53.3 42.4 63.6
119 32.4 25.8 38.8



#70
Styrene
Concen: 0.957 ug/l
RT: 11.96 min Scan# 3226
Delta R.T. 0.00 min
Lab File: VN050712.D
Acq: 16 Aug 2018 19:39

Tgt Ion:104 Resp: 383
Ion Ratio Lower Upper
104 100
78 81.7 39.1 58.7#
103 68.9 44.9 67.3#





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.35 min Scan# 3656

Delta R.T. 0.00 min

Lab File: VN050712.D

Acq: 16 Aug 2018 19:39

Instrument :

MSVOA_N

ClientSampled :

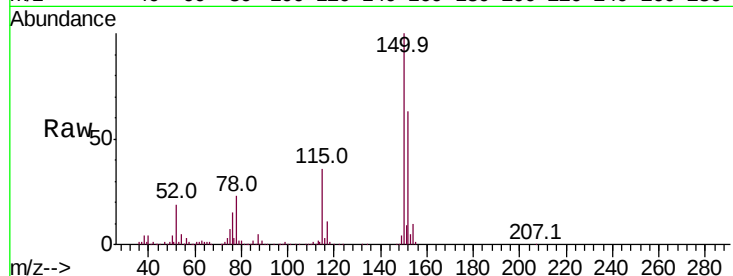
Tot Ion:152 Resp: 334068

Ion Ratio Lower Upper

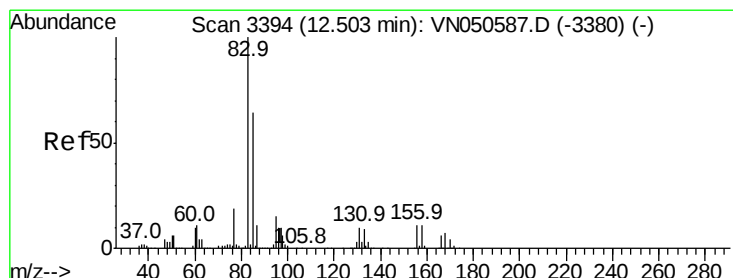
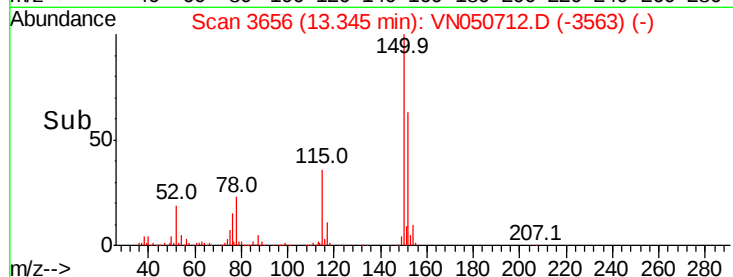
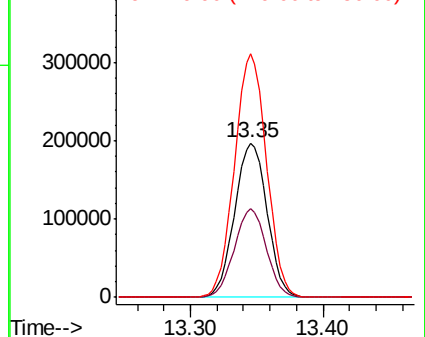
152 100

115 56.6 28.1 84.2

150 155.6 0.0 347.8



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



#75

1,1,2,2-Tetrachloroethane

Concen: Below Cal

RT: 12.54 min Scan# 3405

Delta R.T. 0.04 min

Lab File: VN050712.D

Acq: 16 Aug 2018 19:39

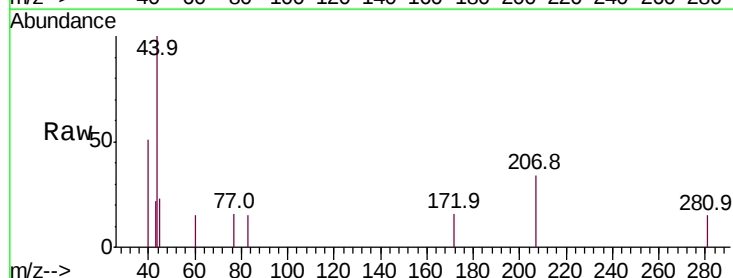
Tgt Ion: 83 Resp: 31

Ion Ratio Lower Upper

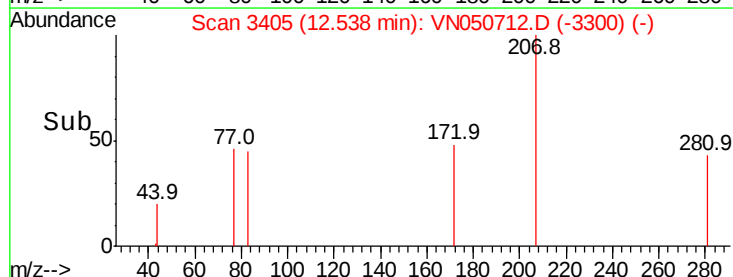
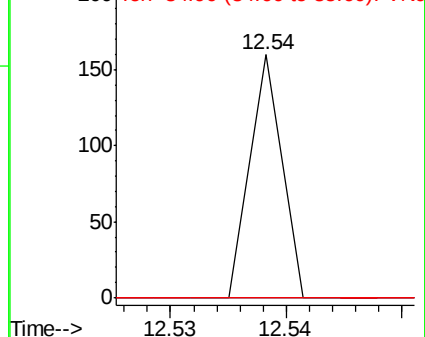
83 100

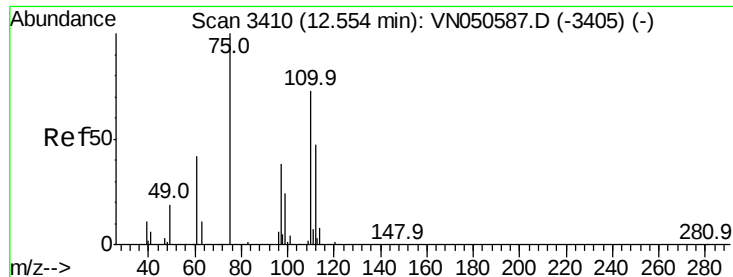
131 0.0 5.3 15.9#

85 0.0 32.1 96.5#



Abundance Ion 82.90 (82.60 to 83.60): V
Ion 130.80 (130.50 to 131.50): V
Ion 84.90 (84.60 to 85.60): V





#76

1,2,3-Trichloropropane

Concen: 34.721 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. -0.15 min

Lab File: VN050712.D

Acq: 16 Aug 2018 19:39

Instrument :

MSVOA_N

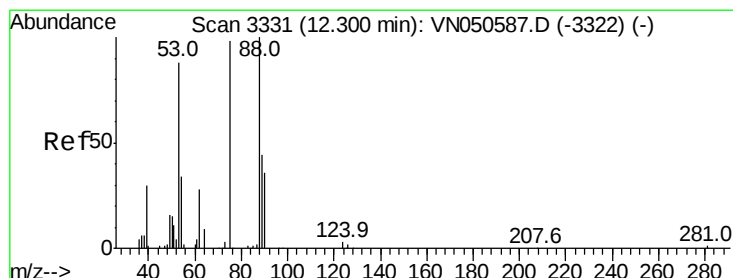
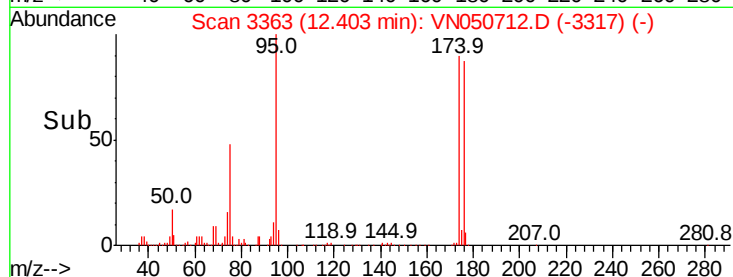
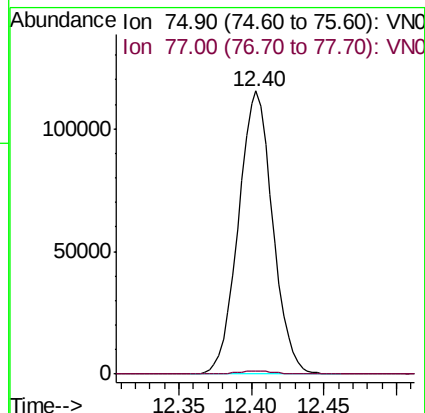
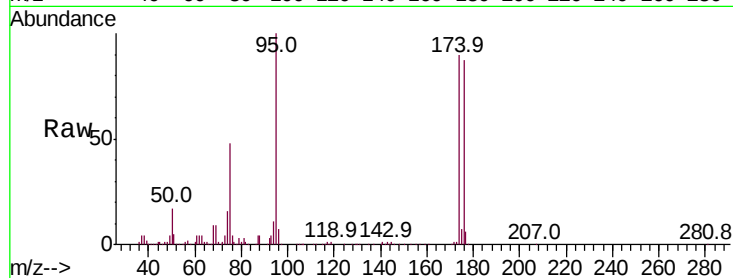
ClientSampleId :

Tot Ion: 75 Resp: 189099

Ion Ratio Lower Upper

75 100

77 1.3 0.0 0.0#



#81

trans-1,4-Dichloro-2-butene

Concen: 125.845 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. 0.10 min

Lab File: VN050712.D

Acq: 16 Aug 2018 19:39

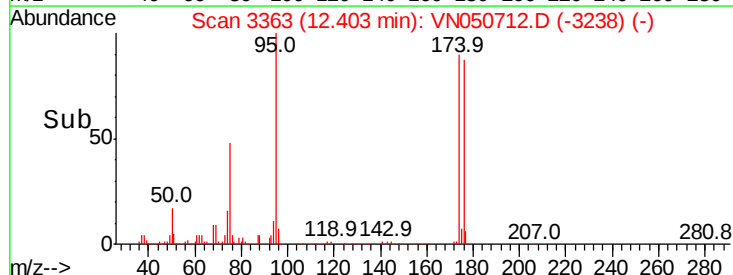
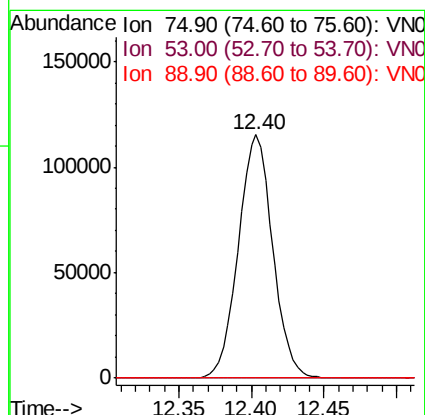
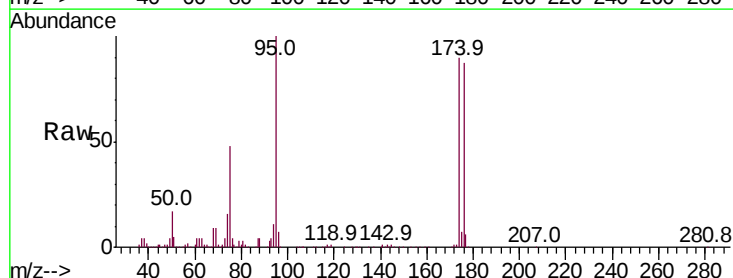
Tgt Ion: 75 Resp: 189099

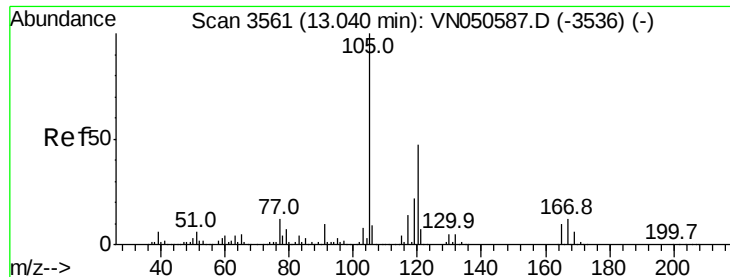
Ion Ratio Lower Upper

75 100

53 0.2 72.2 108.2#

89 0.0 36.3 54.5#





#84

1,2,4-Trimethylbenzene

Concen: 0.501 ug/l

RT: 13.04 min Scan# 3561

Delta R.T. 0.00 min

Lab File: VN050712.D

Acq: 16 Aug 2018 19:39

Instrument :

MSVOA_N

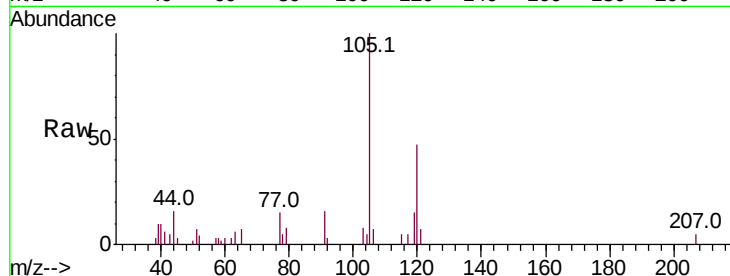
ClientSampleId :

Tot Ion:105 Resp: 10503

Ion Ratio Lower Upper

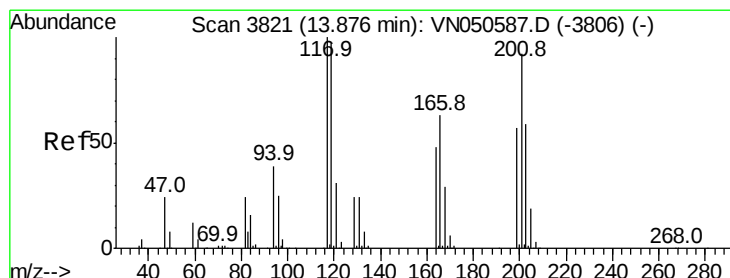
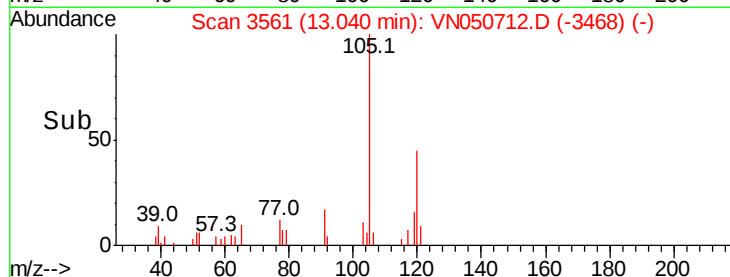
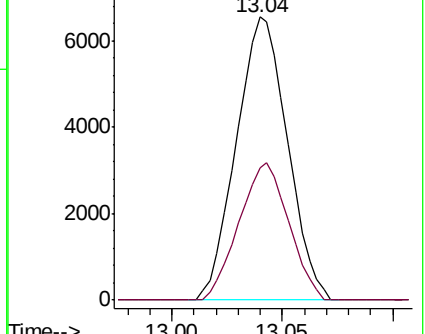
105 100

120 47.1 23.2 69.5



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#90

Hexachloroethane

Concen: 0.225 ug/l

RT: 13.89 min Scan# 3824

Delta R.T. 0.01 min

Lab File: VN050712.D

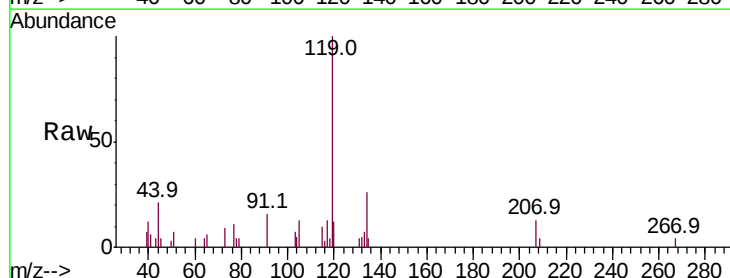
Acq: 16 Aug 2018 19:39

Tgt Ion:117 Resp: 910

Ion Ratio Lower Upper

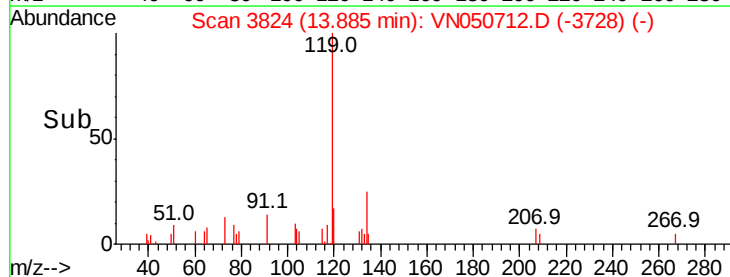
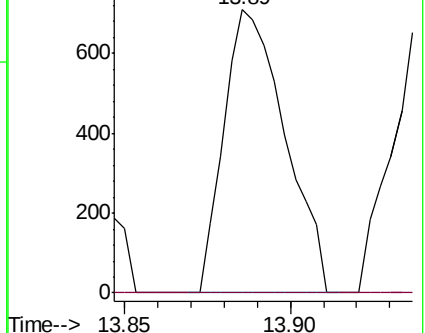
117 100

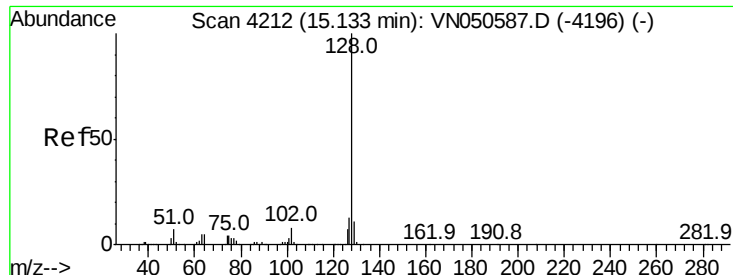
201 0.0 45.5 136.5#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 200.70 (200.40 to 201.40): V

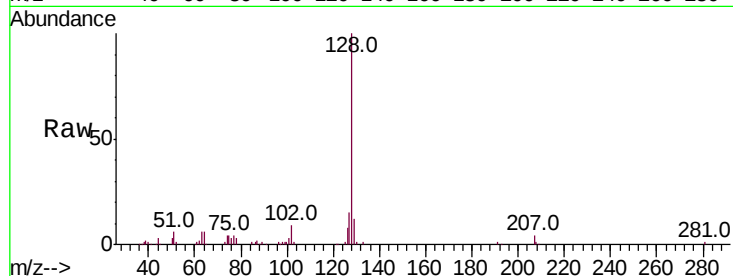




#95
 Naphthalene
 Concen: 9.754 ug/l
 RT: 15.13 min Scan# 4212
 Delta R.T. 0.00 min
 Lab File: VN050712.D
 Acq: 16 Aug 2018 19:39

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
128	100		
127	14.5	10.3	15.5
129	11.9	8.5	12.7



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

