

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN081718\
 Data File : VN050722.D
 Acq On : 17 Aug 2018 11:55
 Operator : MD\SY
 Sample : VN0817WBL02
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Aug 17 23:11:19 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	669682	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1049802	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	896716	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	301897	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	437153	51.79	ug/l	0.00
Spiked Amount			Recovery	=	103.58%	
35) Dibromofluoromethane	7.59	113	415124	49.53	ug/l	0.00
Spiked Amount			Recovery	=	99.06%	
50) Toluene-d8	10.09	98	1479592	46.91	ug/l	0.00
Spiked Amount			Recovery	=	93.82%	
62) 4-Bromofluorobenzene	12.40	95	384596	36.91	ug/l	0.00
Spiked Amount			Recovery	=	73.82%	

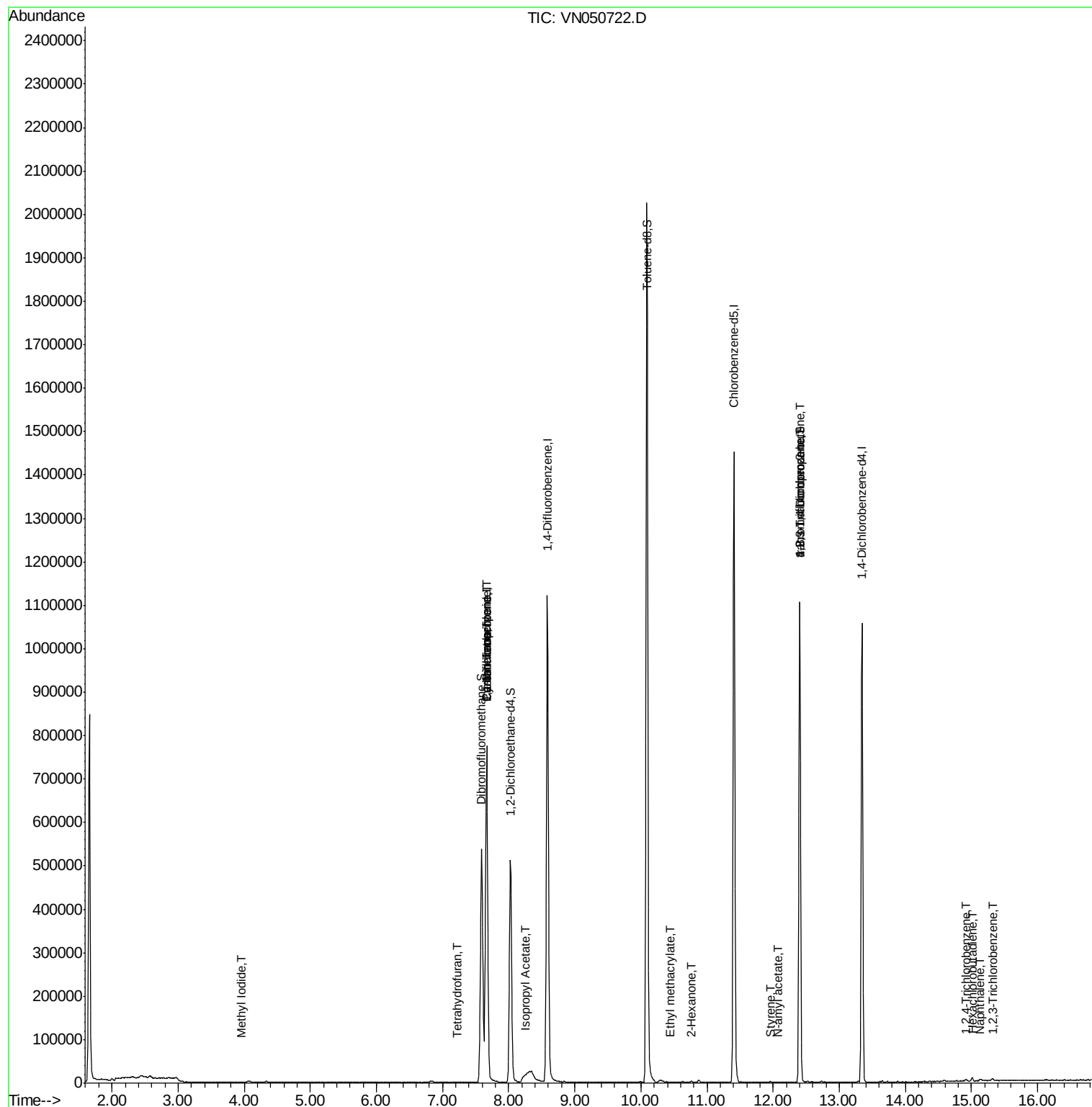
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.06	50	3361	Below Cal		95
5) Bromomethane	2.57	94	3044	Below Cal		85
6) Chloroethane	2.71	64	168	Below Cal	#	43
10) Methyl Iodide	3.95	142	690	7.05 ug/l	#	53
16) Acetone	3.83	43	2668	Below Cal		89
18) Methyl Acetate	4.34	43	5569	Below Cal	#	83
20) Methylene Chloride	4.55	84	524	Below Cal	#	75
29) Tetrahydrofuran	7.22	42	900	0.50 ug/l	#	38
31) Cyclohexane	7.66	56	12342	0.62 ug/l	#	1
36) 1,1-Dichloropropene	7.66	75	45358	3.88 ug/l	#	48
38) Carbon Tetrachloride	7.67	117	61094	5.04 ug/l	#	16
43) Isopropyl Acetate	8.25	43	14177	1.18 ug/l	#	60
56) Ethyl methacrylate	10.44	69	151	1.92 ug/l	#	64
59) 2-Hexanone	10.76	43	1703	0.32 ug/l		93
70) Styrene	11.97	104	532	0.96 ug/l	#	72
74) N-amyl acetate	12.07	43	1431	0.23 ug/l	#	60
75) 1,1,2,2-Tetrachloroethane	12.50	83	308	Below Cal	#	81
76) 1,2,3-Trichloropropane	12.40	75	181848	37.02 ug/l	#	100
81) trans-1,4-Dichloro-2-buten	12.40	75	181848	133.92 ug/l	#	13
93) 1,2,4-Trichlorobenzene	14.92	180	1688	2.97 ug/l		91
94) Hexachlorobutadiene	15.01	225	1928	0.59 ug/l		91
95) Naphthalene	15.13	128	4506	4.22 ug/l	#	91
96) 1,2,3-Trichlorobenzene	15.32	180	2493	2.41 ug/l		90

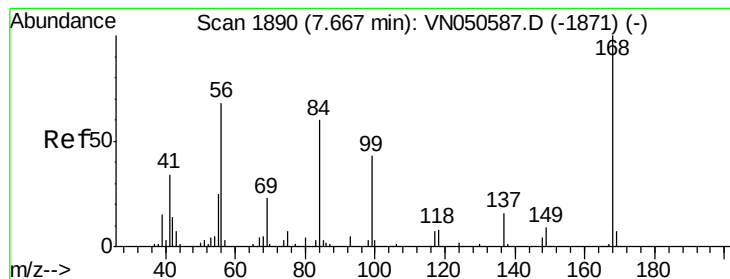
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Tue Aug 14 08:07:08 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 7.67 min Scan# 1890

Delta R.T. -0.00 min

Lab File: VN050722.D

Acq: 17 Aug 2018 11:55

Instrument :

MSVOA_N

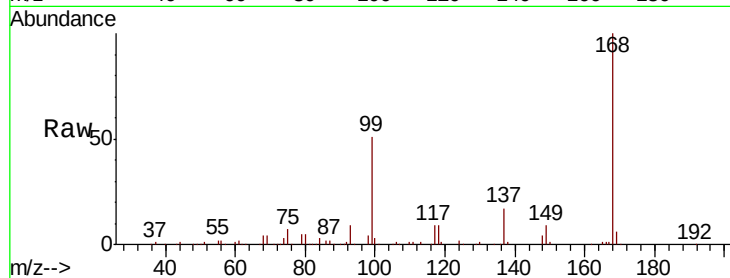
ClientSampled :

Tot Ion:168 Resp: 669682

Ion Ratio Lower Upper

168 100

99 50.9 40.8 61.2



Abundance Ion 167.90 (167.60 to 168.60): VN050587.D (-1871) (-)

Ion 98.90 (98.60 to 99.60): VN050587.D (-1871) (-)

7.67

300000

250000

200000

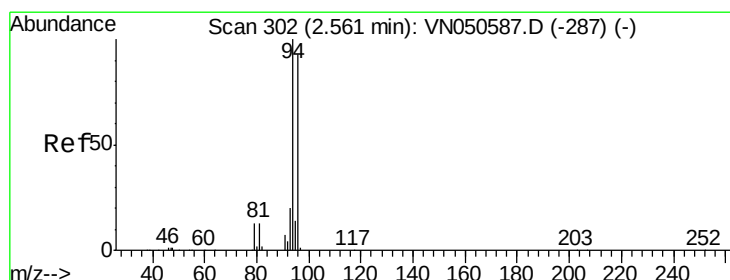
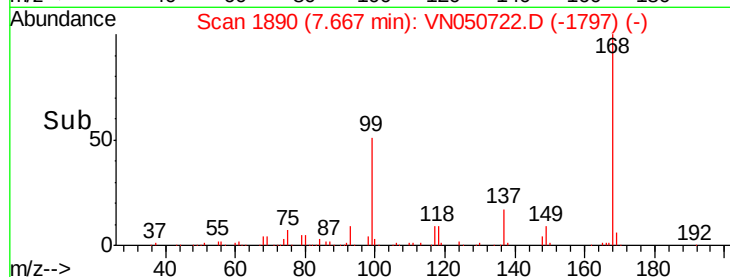
150000

100000

50000

0

Time-->



#5

Bromomethane

Concen: Below Cal

RT: 2.57 min Scan# 304

Delta R.T. 0.01 min

Lab File: VN050722.D

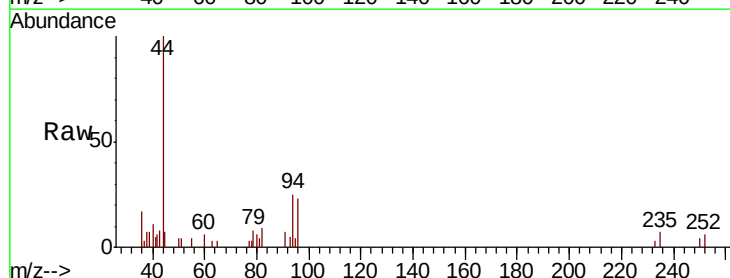
Acq: 17 Aug 2018 11:55

Tgt Ion: 94 Resp: 3044

Ion Ratio Lower Upper

94 100

96 78.4 74.0 111.0



Abundance Ion 93.90 (93.60 to 94.60): VN050587.D (-287) (-)

Ion 95.90 (95.60 to 96.60): VN050587.D (-287) (-)

2.57

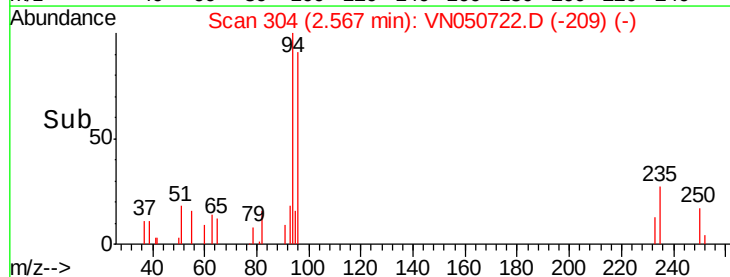
1500

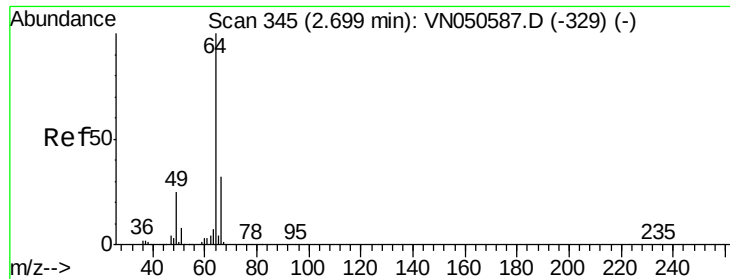
1000

500

0

Time-->





#6

Chloroethane

Concen: Below Cal

RT: 2.71 min Scan# 348

Delta R.T. 0.01 min

Lab File: VN050722.D

Acq: 17 Aug 2018 11:55

Instrument :

MSVOA_N

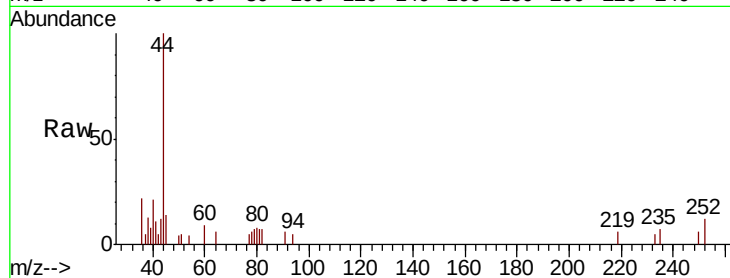
ClientSampled :

Tot Ion: 64 Resp: 168

Ion Ratio Lower Upper

64 100

66 0.0 25.7 38.5#



Abundance Ion 63.90 (63.60 to 64.60): VN050722.D (-252) (-)

Ion 65.90 (65.60 to 66.60): VN050722.D (-252) (-)

2.71

200

150

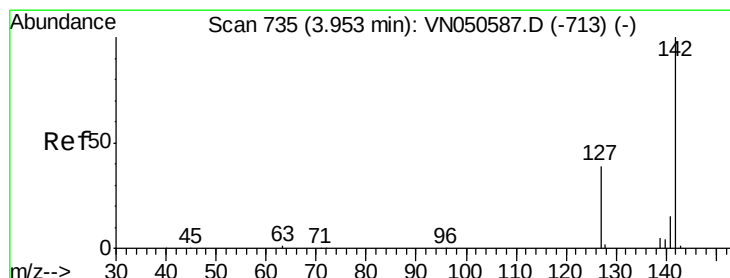
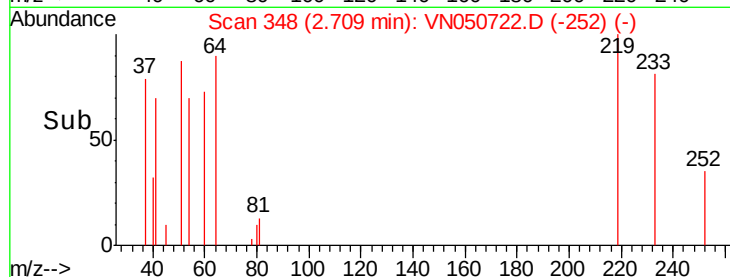
100

50

0

2.69 2.70 2.71 2.72 2.73

Time-->



#10

Methyl Iodide

Concen: 7.05 ug/l

RT: 3.95 min Scan# 735

Delta R.T. 0.00 min

Lab File: VN050722.D

Acq: 17 Aug 2018 11:55

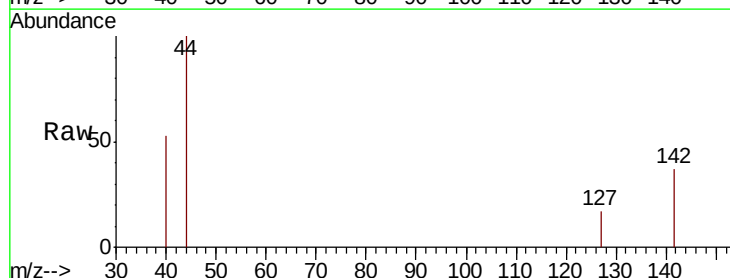
Tgt Ion: 142 Resp: 690

Ion Ratio Lower Upper

142 100

127 8.8 32.6 49.0#

141 0.0 11.5 17.3#



Abundance Ion 141.80 (141.50 to 142.50): VN050722.D (-642) (-)

Ion 126.80 (126.50 to 127.50): VN050722.D (-642) (-)

Ion 140.80 (140.50 to 141.50): VN050722.D (-642) (-)

3.95

500

400

300

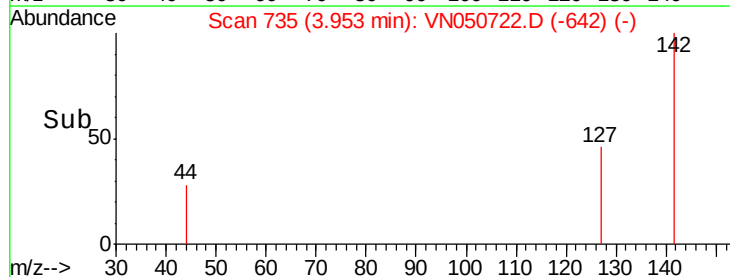
200

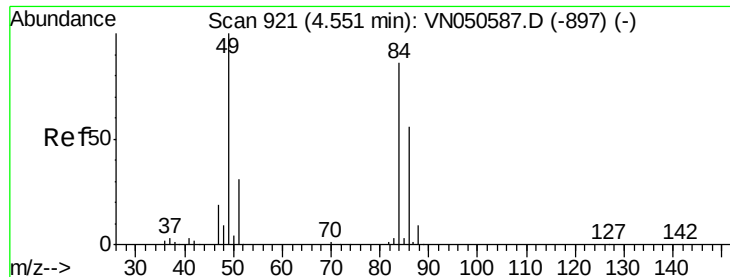
100

0

3.92 3.94 3.96 3.98

Time-->

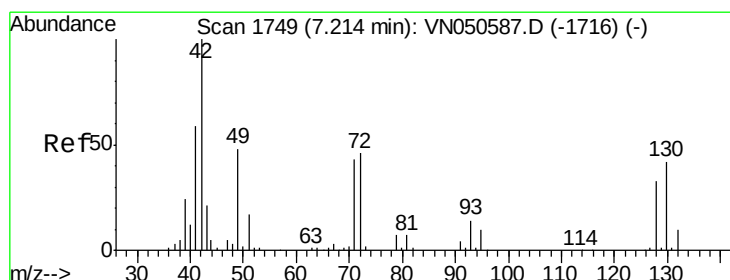
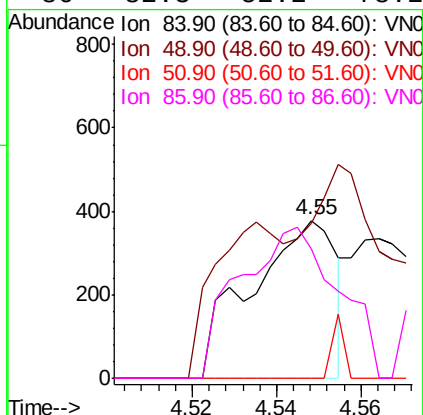
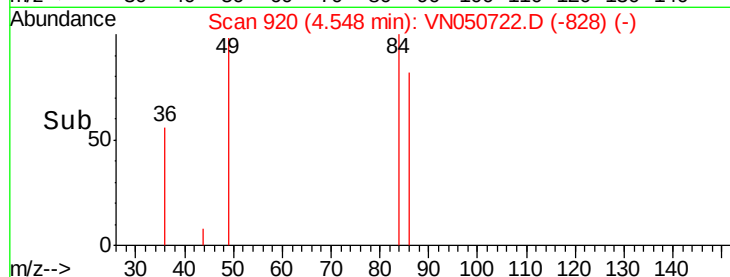
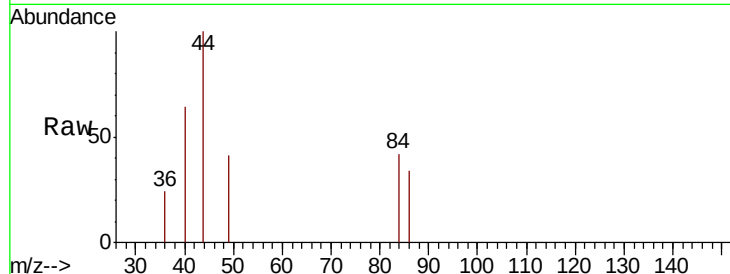




#20
Methvlene Chloride
Concen: Below Cal
RT: 4.55 min Scan# 920
Delta R.T. -0.00 min
Lab File: VN050722.D
Acq: 17 Aug 2018 11:55

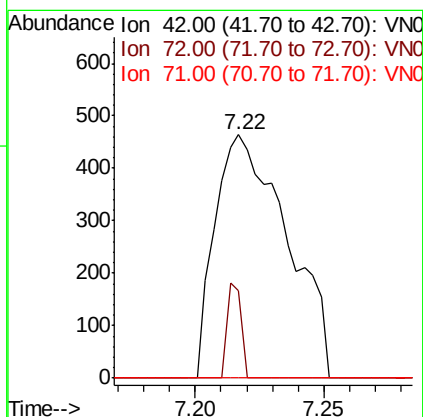
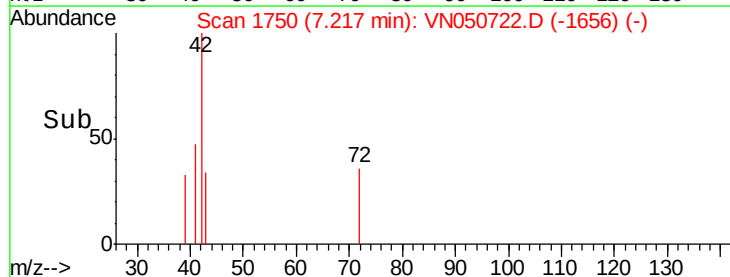
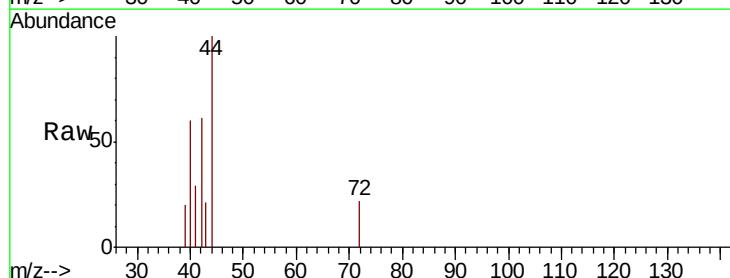
Instrument :
MSVOA_N
ClientSampleId :

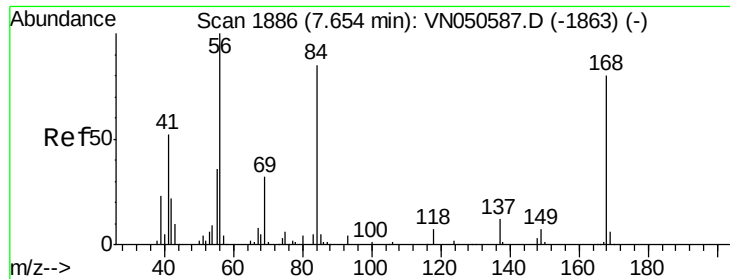
Tot Ion: 84 Resp: 524
Ion Ratio Lower Upper
84 100
49 97.9 92.6 138.8
51 0.0 28.6 43.0#
86 82.3 52.2 78.2#



#29
Tetrahydrofuran
Concen: 0.50 ug/l
RT: 7.22 min Scan# 1750
Delta R.T. 0.00 min
Lab File: VN050722.D
Acq: 17 Aug 2018 11:55

Tgt Ion: 42 Resp: 900
Ion Ratio Lower Upper
42 100
72 7.4 35.8 53.6#
71 0.0 33.4 50.0#

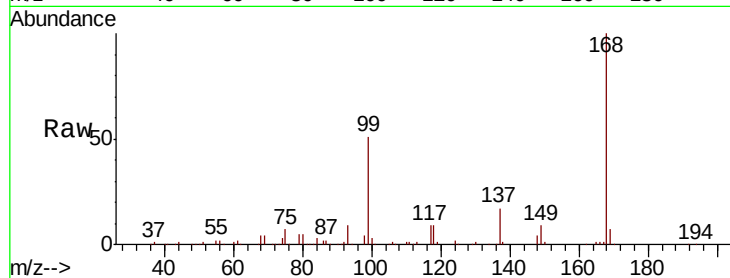




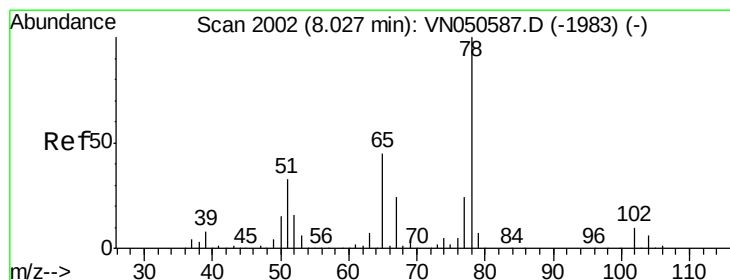
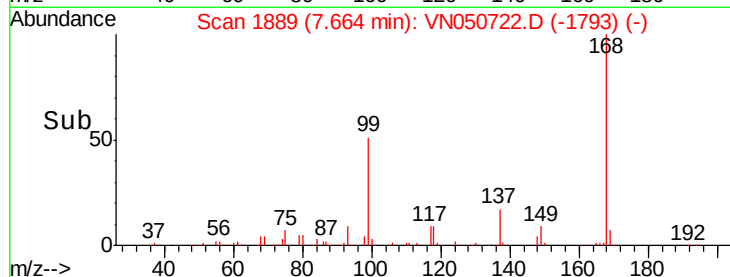
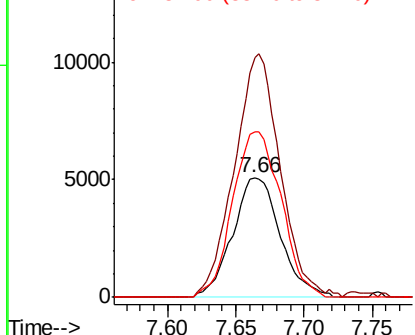
#31
Cyclohexane
Concen: 0.62 ug/l
RT: 7.66 min Scan# 1889
Delta R.T. 0.01 min
Lab File: VN050722.D
Acq: 17 Aug 2018 11:55

Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 56 Resp: 12342
Ion Ratio Lower Upper
56 100
69 199.9 25.8 38.6#
84 138.3 67.8 101.6#

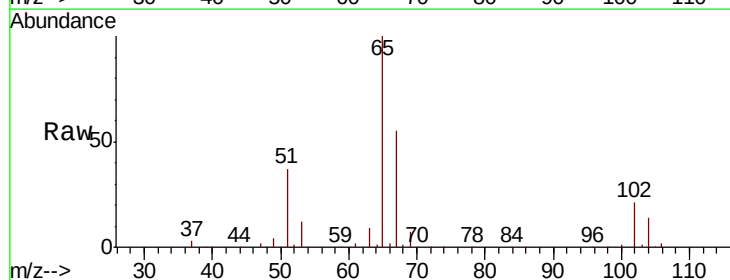


Abundance Ion 56.00 (55.70 to 56.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 84.00 (83.70 to 84.70): VN0

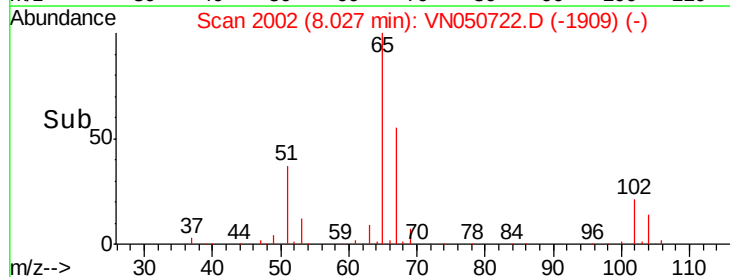
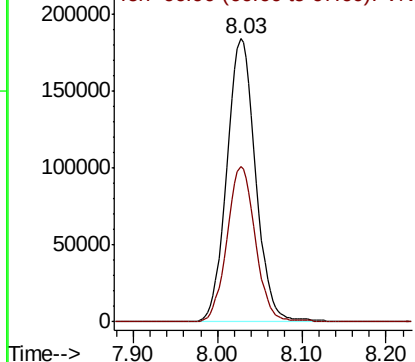


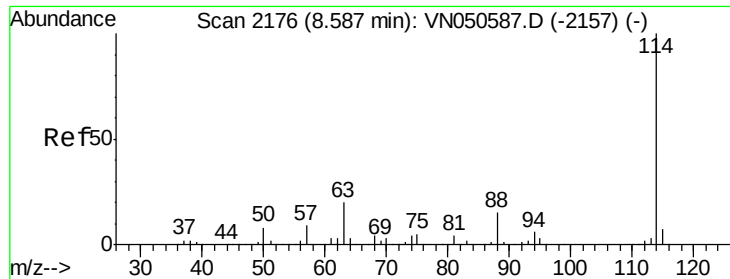
#33
1,2-Dichloroethane-d4
Concen: 51.79 ug/l
RT: 8.03 min Scan# 2002
Delta R.T. -0.00 min
Lab File: VN050722.D
Acq: 17 Aug 2018 11:55

Tgt Ion: 65 Resp: 437153
Ion Ratio Lower Upper
65 100
67 54.3 0.0 109.8



Abundance Ion 64.90 (64.60 to 65.60): VN0
Ion 66.90 (66.60 to 67.60): VN0

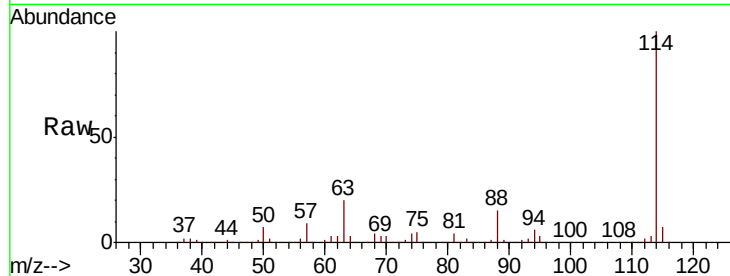




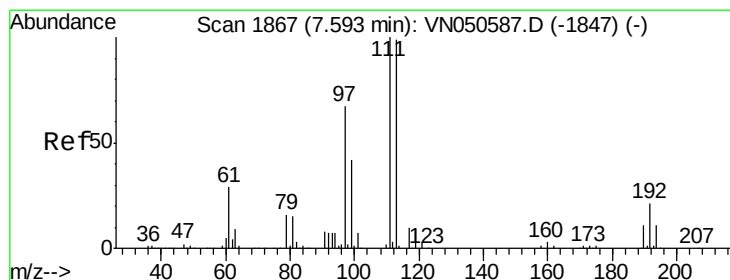
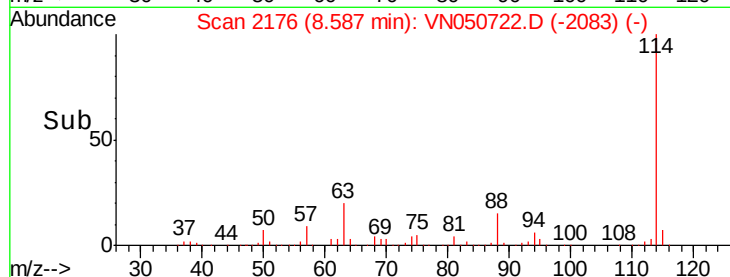
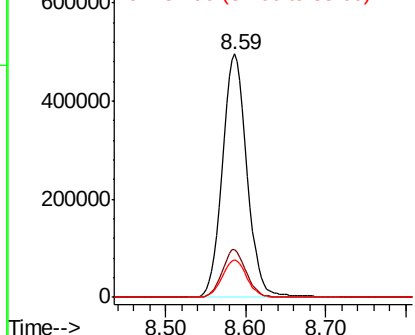
#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 8.59 min Scan# 2176
 Delta R.T. -0.00 min
 Lab File: VN050722.D
 Acq: 17 Aug 2018 11:55

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion:114 Resp: 1049802
 Ion Ratio Lower Upper
 114 100
 63 19.5 0.0 40.0
 88 15.2 0.0 30.8

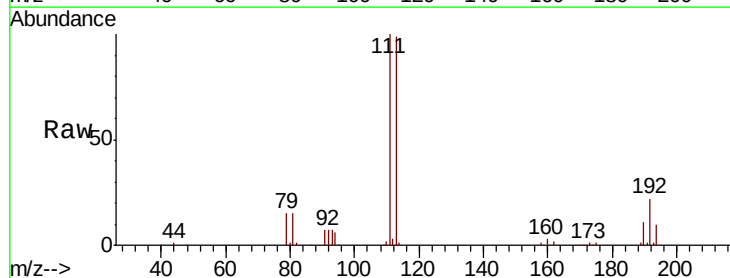


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VN
 Ion 87.90 (87.60 to 88.60): VN

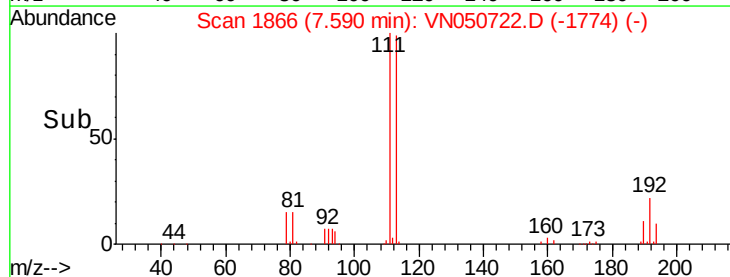
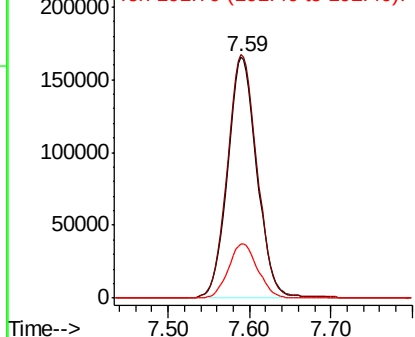


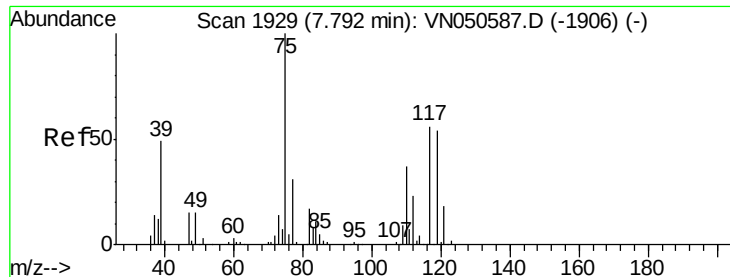
#35
 Dibromofluoromethane
 Concen: 49.53 ug/l
 RT: 7.59 min Scan# 1866
 Delta R.T. -0.00 min
 Lab File: VN050722.D
 Acq: 17 Aug 2018 11:55

Tgt Ion:113 Resp: 415124
 Ion Ratio Lower Upper
 113 100
 111 103.0 81.0 121.6
 192 22.5 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

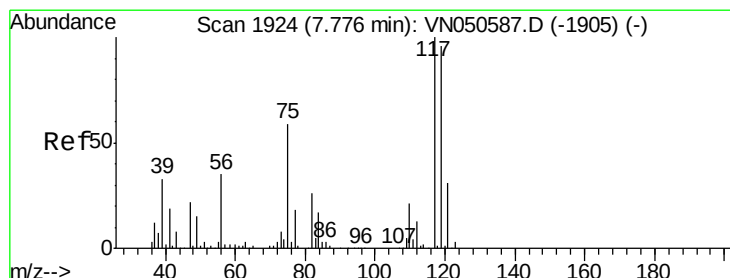
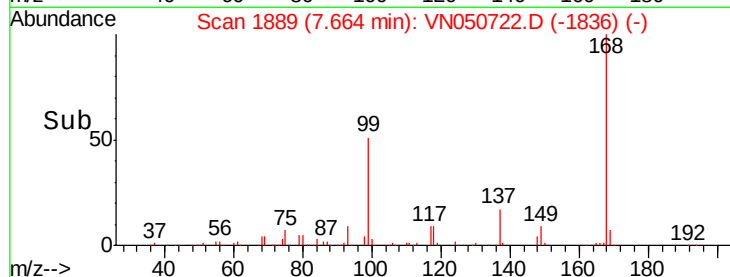
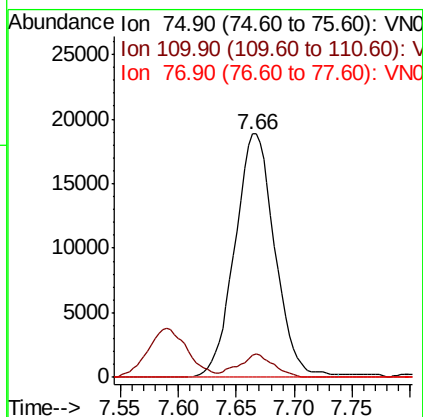
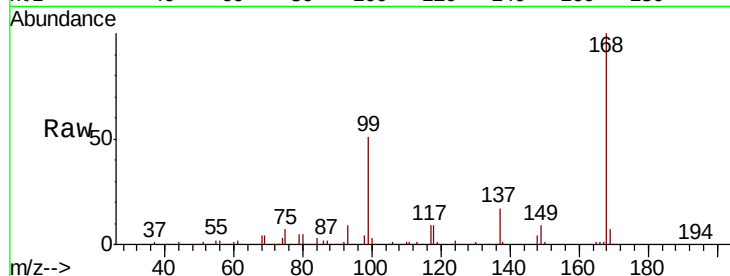




#36
 1,1-Dichloropropene
 Concen: 3.88 ug/l
 RT: 7.66 min Scan# 1889
 Delta R.T. -0.13 min
 Lab File: VN050722.D
 Acq: 17 Aug 2018 11:55

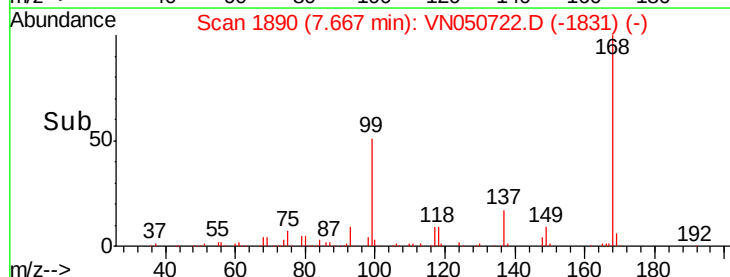
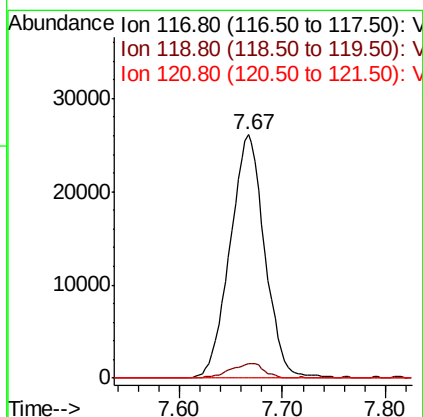
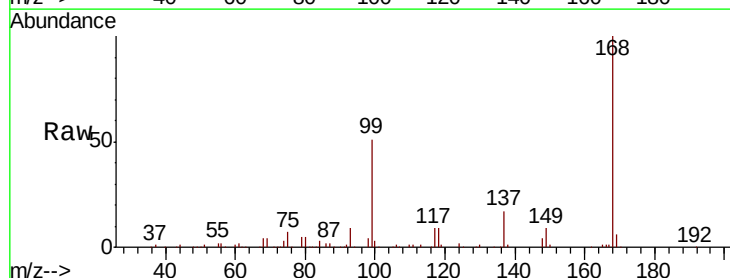
Instrument :
 MSVOA_N
 ClientSampled :

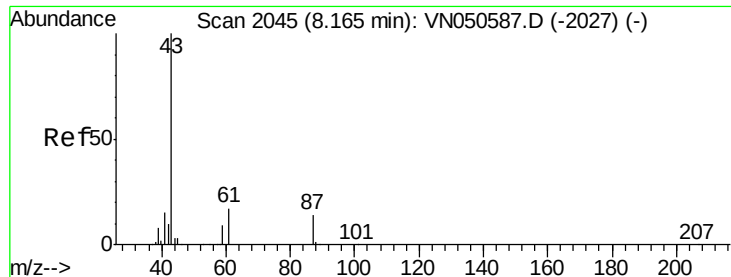
Tot Ion	Ratio	Lower	Upper
75	100		
110	8.3	18.3	54.9#
77	0.0	25.0	37.4#



#38
 Carbon Tetrachloride
 Concen: 5.04 ug/l
 RT: 7.67 min Scan# 1890
 Delta R.T. -0.11 min
 Lab File: VN050722.D
 Acq: 17 Aug 2018 11:55

Tgt Ion	Ratio	Lower	Upper
117	100		
119	5.7	76.6	115.0#
121	0.0	25.0	37.6#

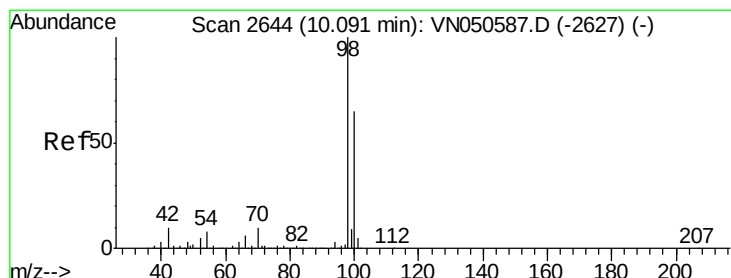
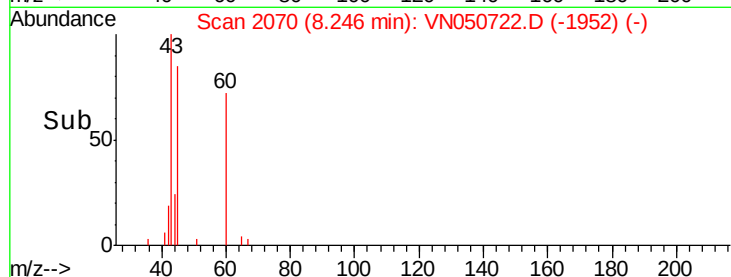
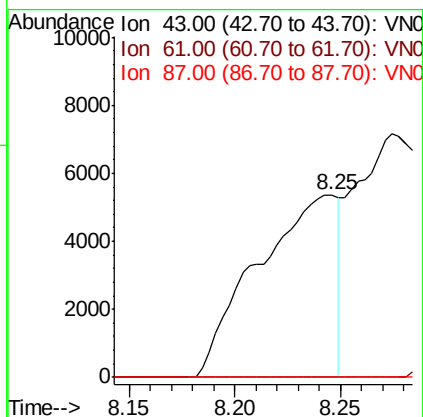
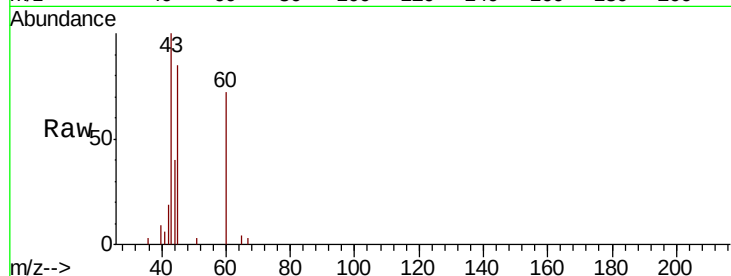




#43
Isopropyl Acetate
Concen: 1.18 ug/l
RT: 8.25 min Scan# 2070
Delta R.T. 0.08 min
Lab File: VN050722.D
Acq: 17 Aug 2018 11:55

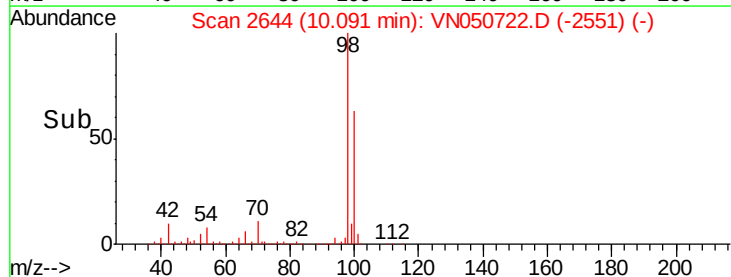
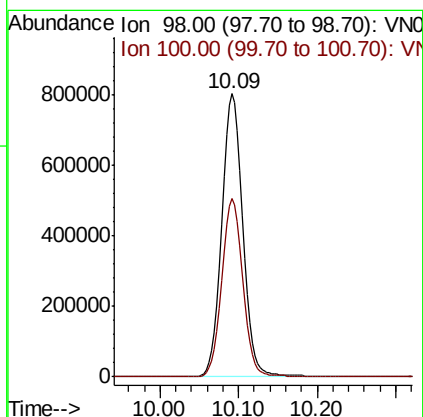
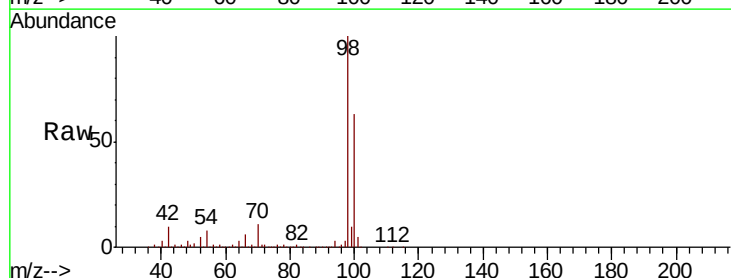
Instrument :
MSVOA_N
ClientSampleId :

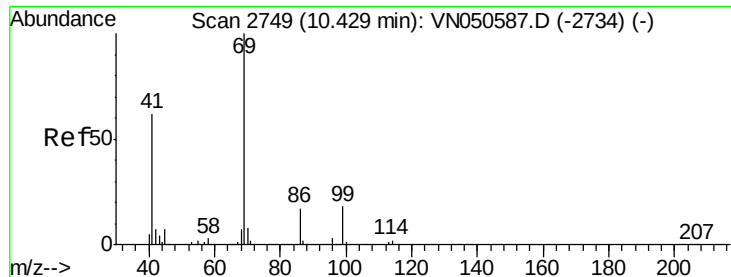
Tot Ion: 43 Resp: 14177
Ion Ratio Lower Upper
43 100
61 0.0 16.2 24.2#
87 0.0 10.9 16.3#



#50
Toluene-d8
Concen: 46.91 ug/l
RT: 10.09 min Scan# 2644
Delta R.T. -0.00 min
Lab File: VN050722.D
Acq: 17 Aug 2018 11:55

Tgt Ion: 98 Resp: 1479592
Ion Ratio Lower Upper
98 100
100 63.1 51.8 77.8





#56

Ethyl methacrylate

Concen: 1.92 ug/l

RT: 10.44 min Scan# 2751

Delta R.T. 0.01 min

Lab File: VN050722.D

Acq: 17 Aug 2018 11:55

Instrument :

MSVOA_N

ClientSampled :

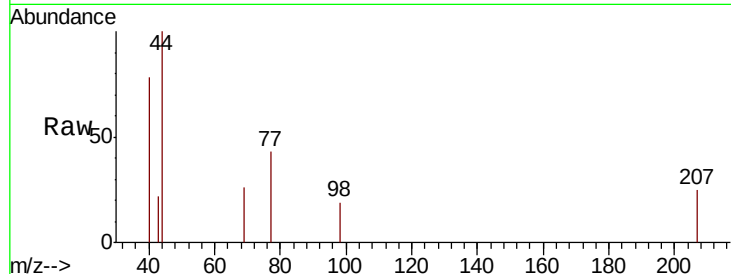
Tot Ion: 69 Resp: 151

Ion Ratio Lower Upper

69 100

41 41.7 49.7 74.5#

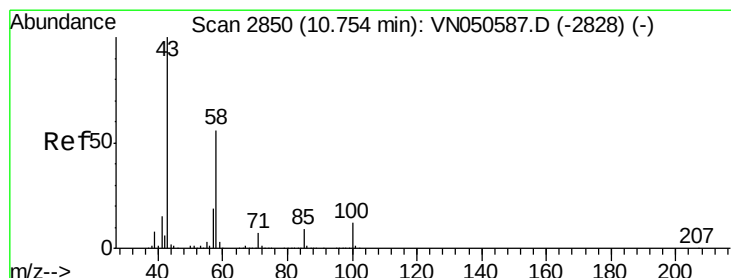
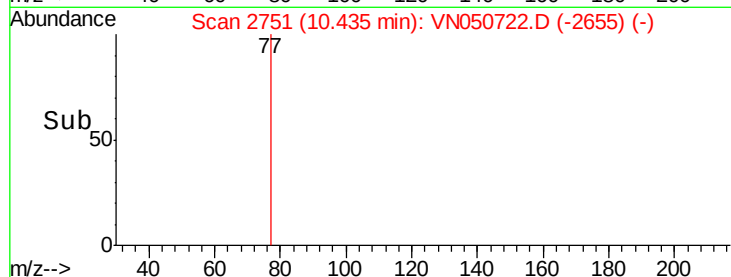
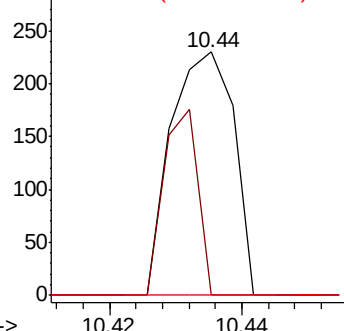
39 0.0 24.2 36.2#



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



#59

2-Hexanone

Concen: 0.32 ug/l

RT: 10.76 min Scan# 2852

Delta R.T. 0.01 min

Lab File: VN050722.D

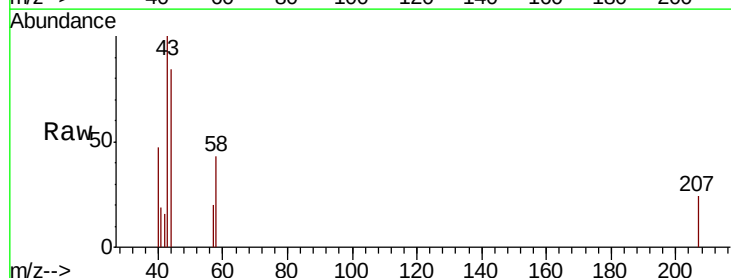
Acq: 17 Aug 2018 11:55

Tgt Ion: 43 Resp: 1703

Ion Ratio Lower Upper

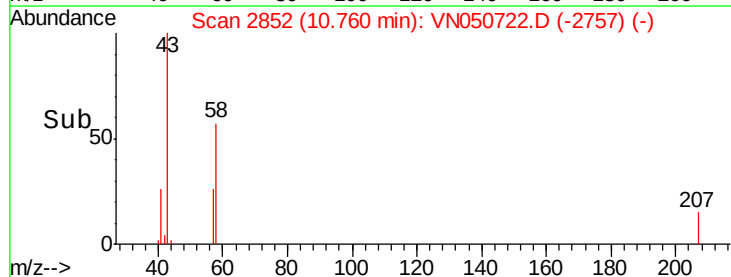
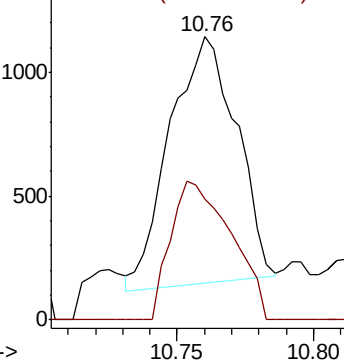
43 100

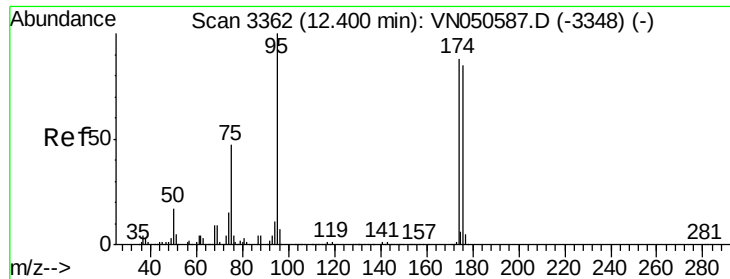
58 51.0 28.0 84.0



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0





#62

4-Bromofluorobenzene

Concen: 36.91 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. 0.00 min

Lab File: VN050722.D

Acq: 17 Aug 2018 11:55

Instrument :

MSVOA_N

ClientSampleId :

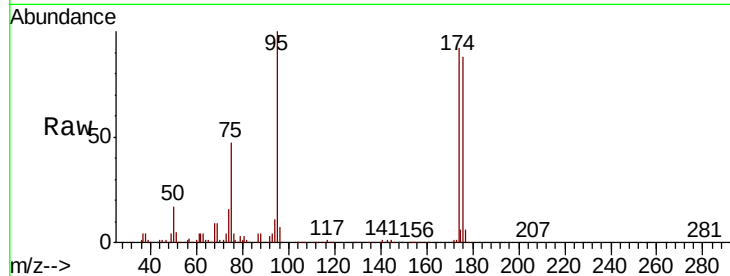
Tot Ion: 95 Resp: 384596

Ion Ratio Lower Upper

95 100

174 92.0 0.0 177.8

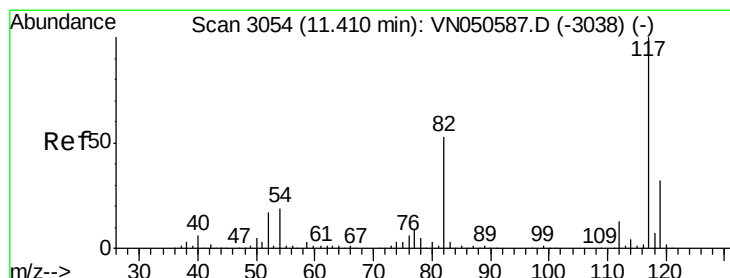
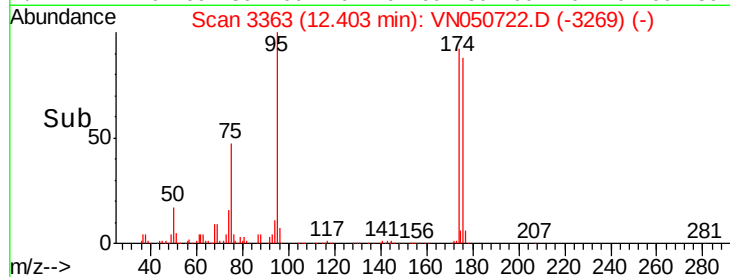
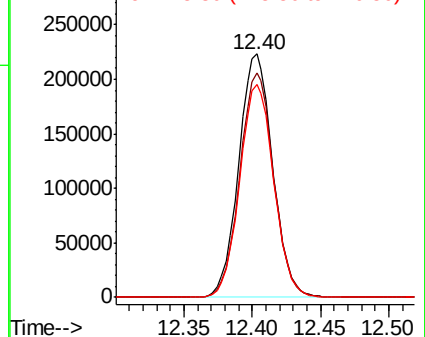
176 87.8 0.0 175.0



Abundance Ion 94.90 (94.60 to 95.60): VN0

Ion 173.80 (173.50 to 174.50): VN0

Ion 175.80 (175.50 to 176.50): VN0



#63

Chlorobenzene-d5

Concen: 50.00 ug/l

RT: 11.41 min Scan# 3053

Delta R.T. -0.00 min

Lab File: VN050722.D

Acq: 17 Aug 2018 11:55

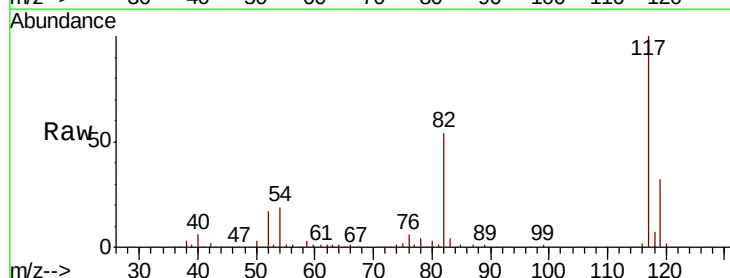
Tgt Ion: 117 Resp: 896716

Ion Ratio Lower Upper

117 100

82 53.7 42.4 63.6

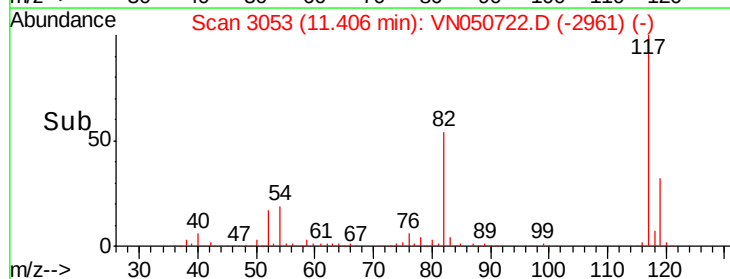
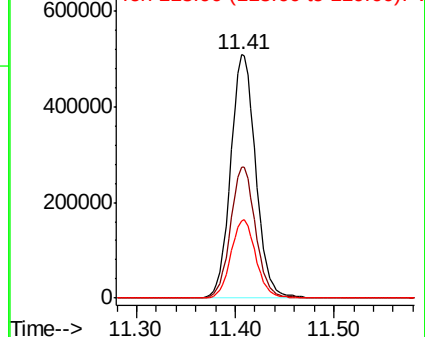
119 31.8 25.8 38.8

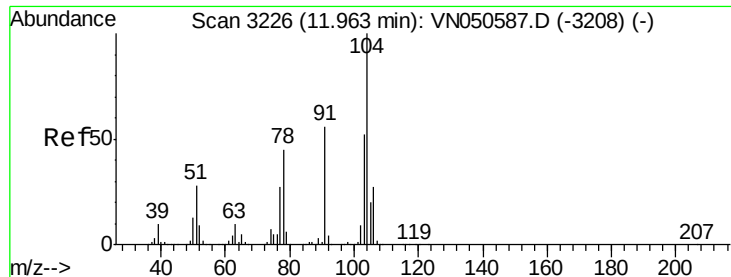


Abundance Ion 116.90 (116.60 to 117.60): VN0

Ion 82.00 (81.70 to 82.70): VN0

Ion 118.90 (118.60 to 119.60): VN0





#70

Stvrene

Concen: 0.96 ug/l

RT: 11.97 min Scan# 3228

Delta R.T. 0.01 min

Lab File: VN050722.D

Acq: 17 Aug 2018 11:55

Instrument :

MSVOA_N

ClientSampled :

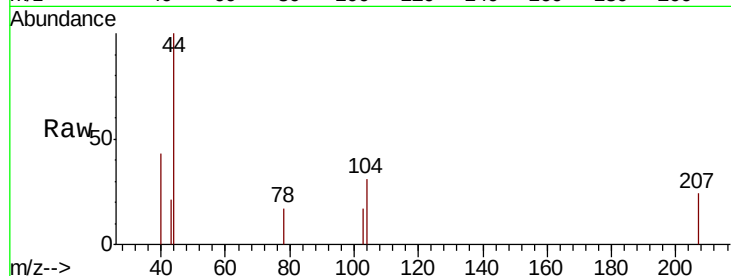
Tot Ion:104 Resp: 532

Ion Ratio Lower Upper

104 100

78 24.4 39.1 58.7#

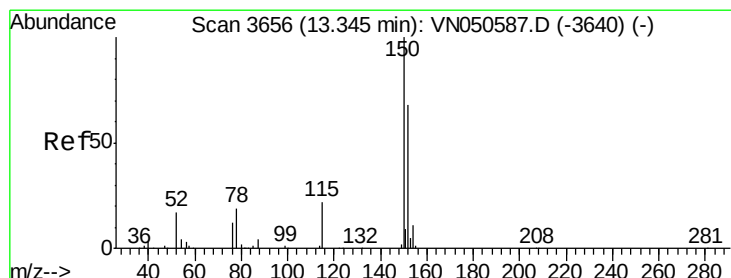
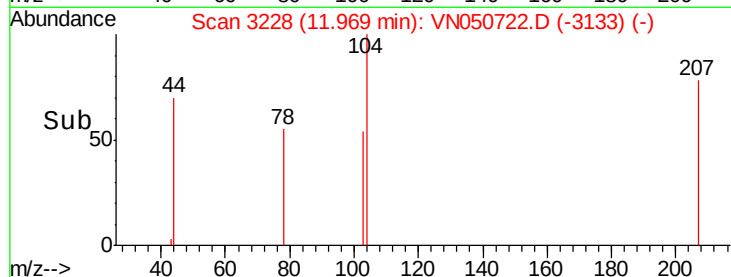
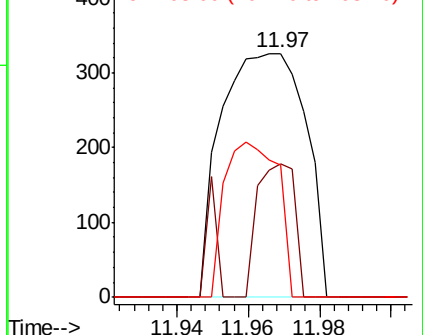
103 40.4 44.9 67.3#



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): V

Ion 103.00 (102.70 to 103.70): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 13.35 min Scan# 3656

Delta R.T. -0.00 min

Lab File: VN050722.D

Acq: 17 Aug 2018 11:55

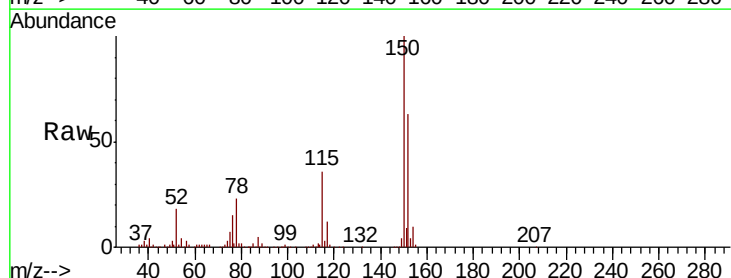
Tgt Ion:152 Resp: 301897

Ion Ratio Lower Upper

152 100

115 55.7 28.1 84.2

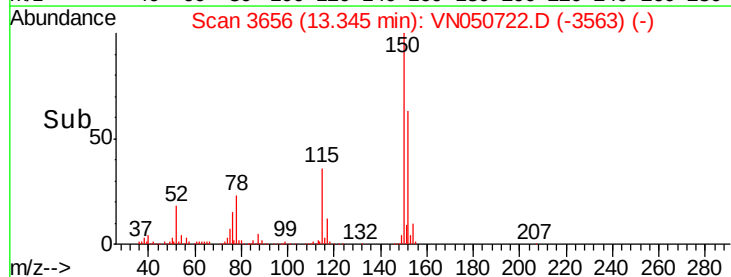
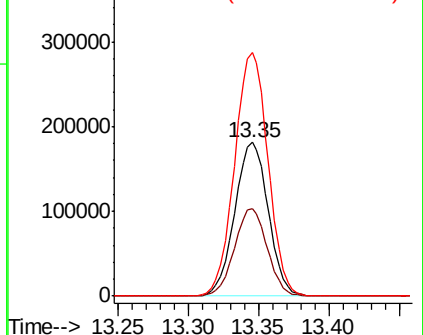
150 158.1 0.0 347.8

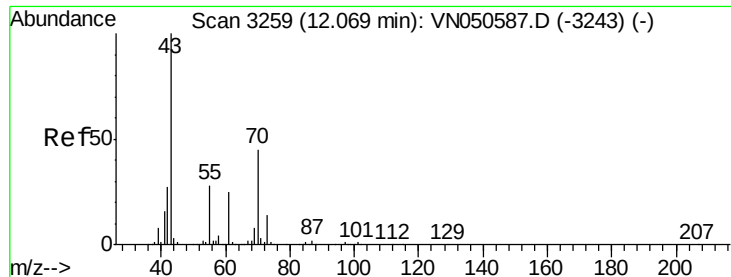


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#74

N-amvl acetate

Concen: 0.23 ug/l

RT: 12.07 min Scan# 3260

Delta R.T. 0.00 min

Lab File: VN050722.D

Acq: 17 Aug 2018 11:55

Instrument :

MSVOA_N

ClientSampled :

Tot Ion: 43 Resp: 1431

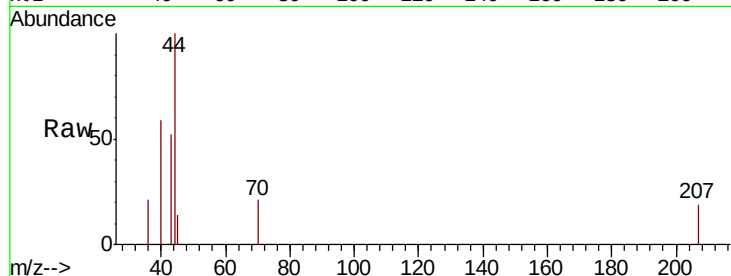
Ion Ratio Lower Upper

43 100

70 24.2 35.9 53.9#

55 4.2 22.2 33.4#

61 0.0 20.0 30.0#

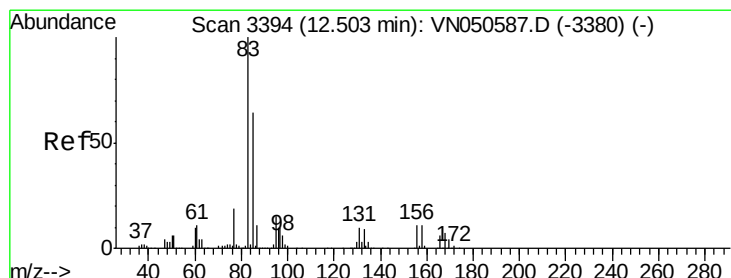
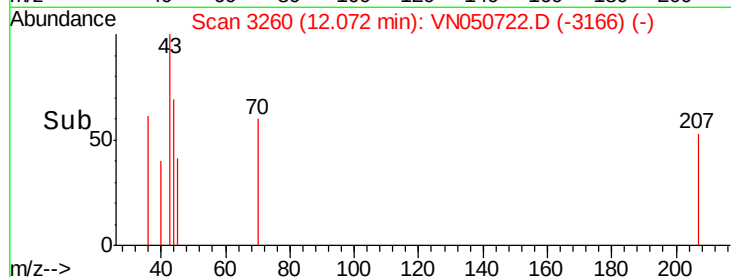
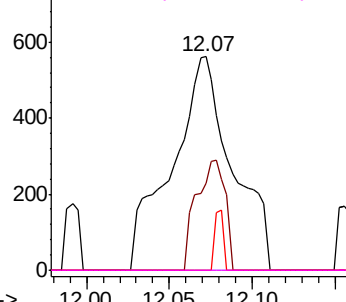


Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 70.00 (69.70 to 70.70): VN0

Ion 55.00 (54.70 to 55.70): VN0

Ion 61.00 (60.70 to 61.70): VN0



#75

1,1,2,2-Tetrachloroethane

Concen: Below Cal

RT: 12.50 min Scan# 3394

Delta R.T. 0.00 min

Lab File: VN050722.D

Acq: 17 Aug 2018 11:55

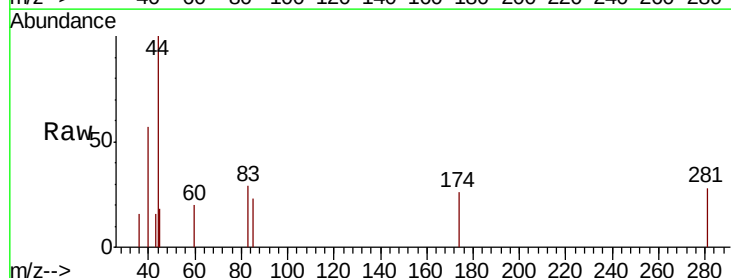
Tgt Ion: 83 Resp: 308

Ion Ratio Lower Upper

83 100

131 0.0 5.3 15.9#

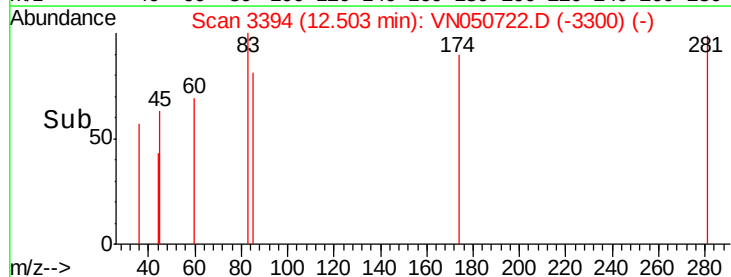
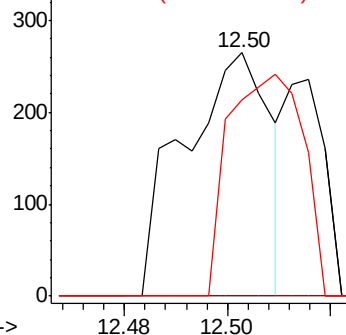
85 78.2 32.1 96.5

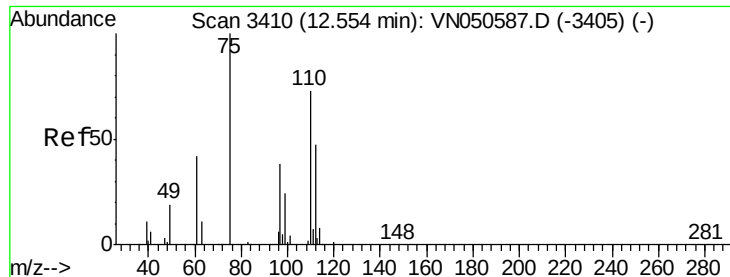


Abundance Ion 82.90 (82.60 to 83.60): VN0

Ion 130.80 (130.50 to 131.50): V

Ion 84.90 (84.60 to 85.60): VN0





#76

1,2,3-Trichloropropane

Concen: 37.02 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. -0.15 min

Lab File: VN050722.D

Acq: 17 Aug 2018 11:55

Instrument :

MSVOA_N

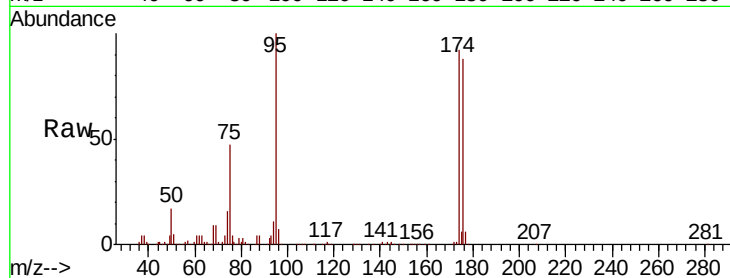
ClientSampled :

Tot Ion: 75 Resp: 181848

Ion Ratio Lower Upper

75 100

77 1.3 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0

120000

100000

80000

60000

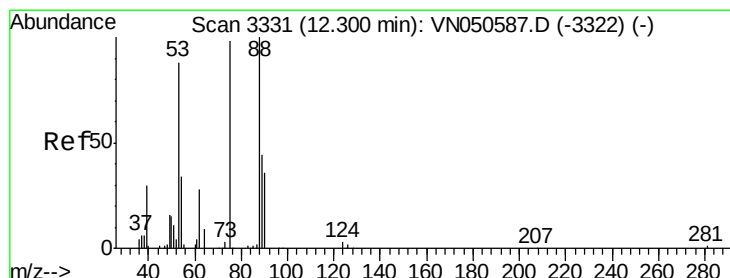
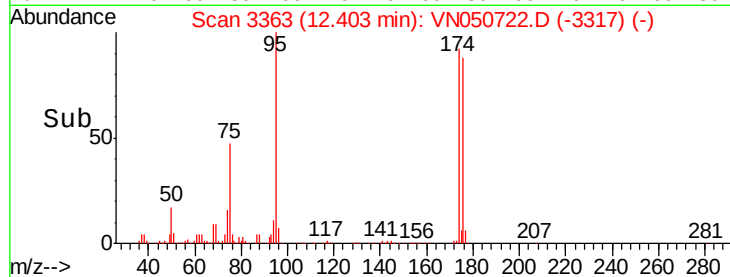
40000

20000

0

12.35 12.40 12.45

Time-->



#81

trans-1,4-Dichloro-2-butene

Concen: 133.92 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. 0.10 min

Lab File: VN050722.D

Acq: 17 Aug 2018 11:55

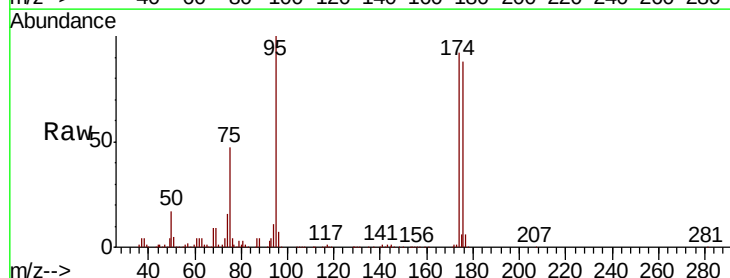
Tgt Ion: 75 Resp: 181848

Ion Ratio Lower Upper

75 100

53 0.2 72.2 108.2#

89 0.0 36.3 54.5#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 53.00 (52.70 to 53.70): VN0

Ion 88.90 (88.60 to 89.60): VN0

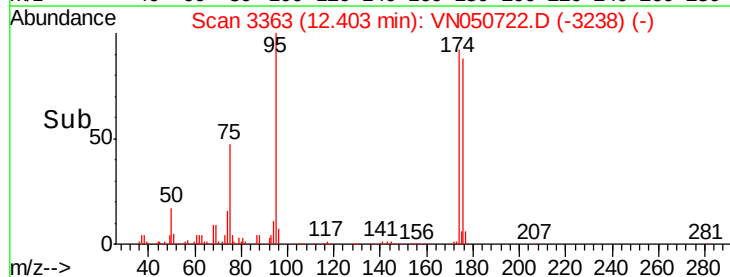
100000

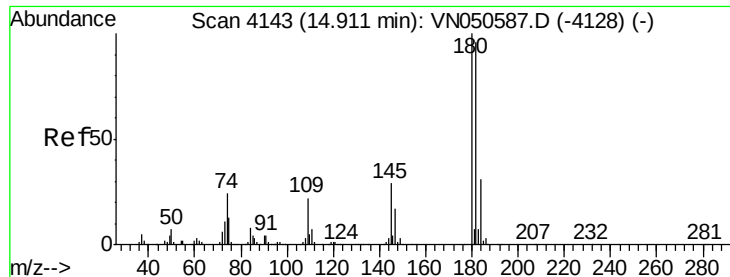
50000

0

12.35 12.40 12.45

Time-->

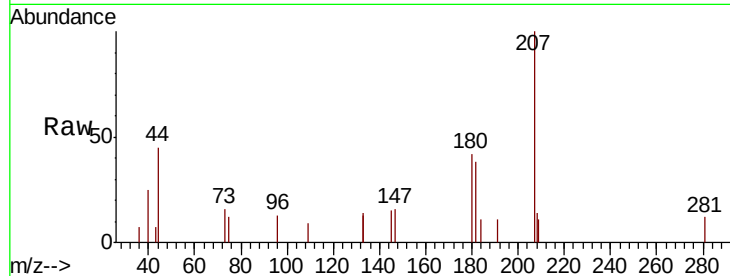




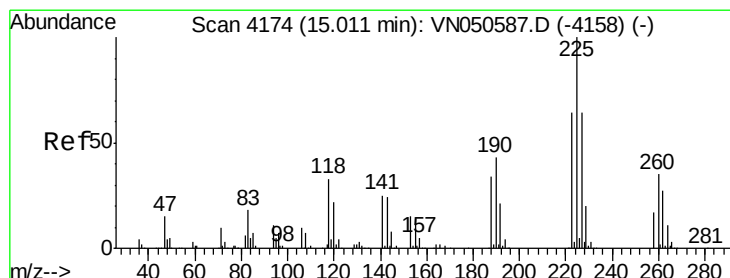
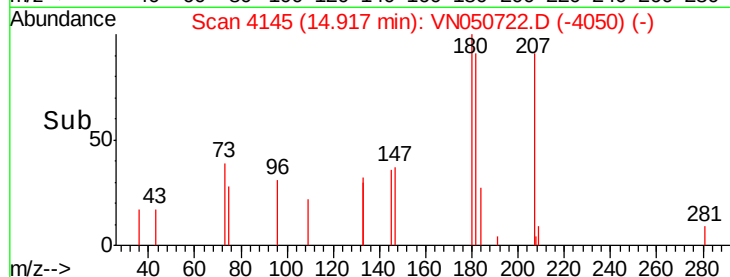
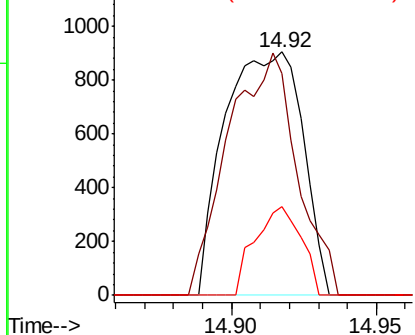
#93
 1,2,4-Trichlorobenzene
 Concen: 2.97 ug/l
 RT: 14.92 min Scan# 4145
 Delta R.T. 0.01 min
 Lab File: VN050722.D
 Acq: 17 Aug 2018 11:55

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion:180 Resp: 1688
 Ion Ratio Lower Upper
 180 100
 182 88.6 47.9 143.7
 145 21.8 14.4 43.4

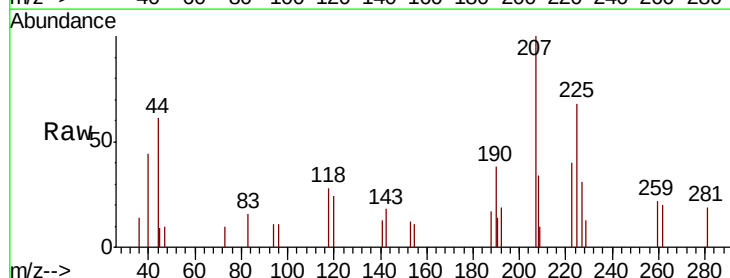


Abundance Ion 179.80 (179.50 to 180.50): V
 Ion 181.80 (181.50 to 182.50): V
 Ion 144.80 (144.50 to 145.50): V

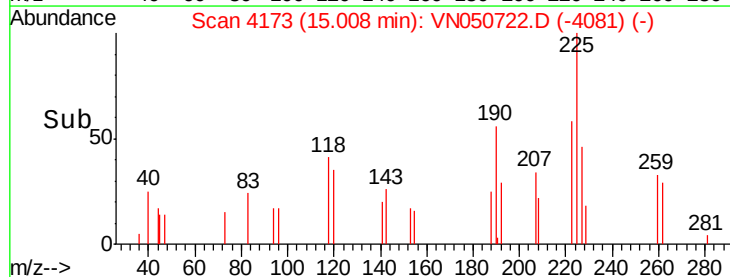
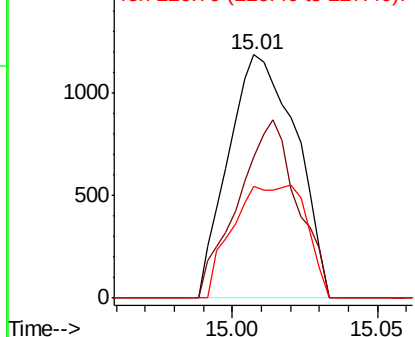


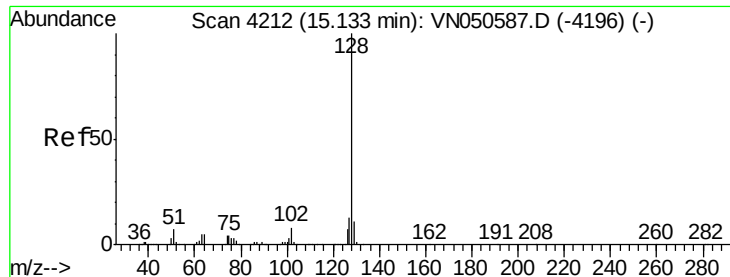
#94
 Hexachlorobutadiene
 Concen: 0.59 ug/l
 RT: 15.01 min Scan# 4173
 Delta R.T. -0.00 min
 Lab File: VN050722.D
 Acq: 17 Aug 2018 11:55

Tgt Ion:225 Resp: 1928
 Ion Ratio Lower Upper
 225 100
 223 64.1 32.1 96.3
 227 49.9 32.0 96.2



Abundance Ion 224.70 (224.40 to 225.40): V
 Ion 222.70 (222.40 to 223.40): V
 Ion 226.70 (226.40 to 227.40): V





#95

Naphthalene

Concen: 4.22 ug/l

RT: 15.13 min Scan# 4212

Delta R.T. 0.00 min

Lab File: VN050722.D

Acq: 17 Aug 2018 11:55

Instrument :

MSVOA_N

ClientSampleId :

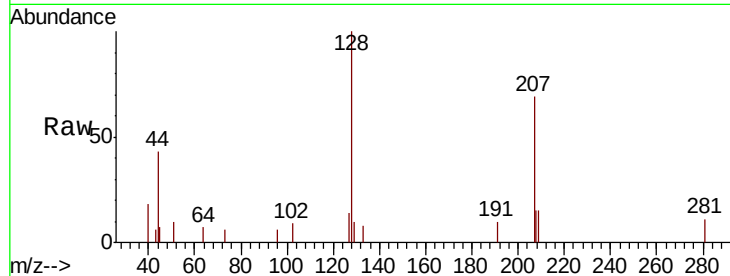
Tot Ion:128 Resp: 4506

Ion Ratio Lower Upper

128 100

127 8.0 10.3 15.5#

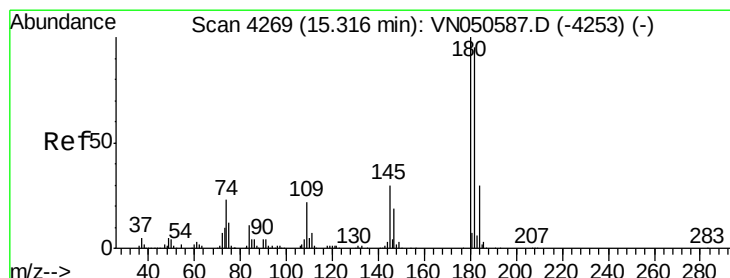
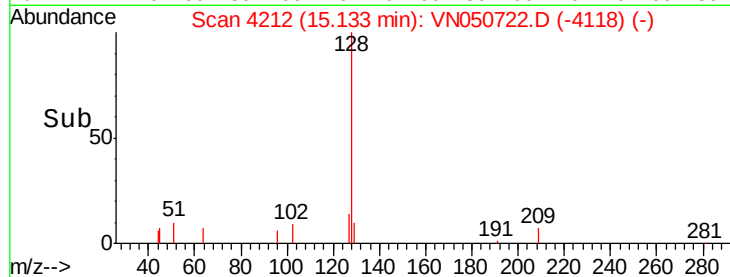
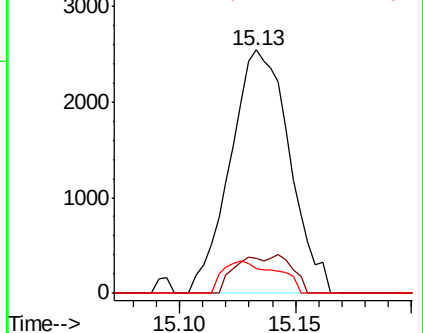
129 12.1 8.5 12.7



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



#96

1,2,3-Trichlorobenzene

Concen: 2.41 ug/l

RT: 15.32 min Scan# 4269

Delta R.T. 0.00 min

Lab File: VN050722.D

Acq: 17 Aug 2018 11:55

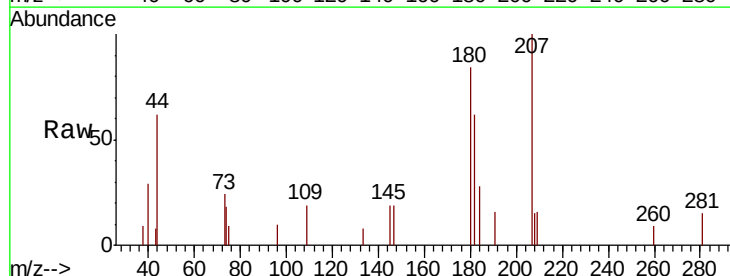
Tgt Ion:180 Resp: 2493

Ion Ratio Lower Upper

180 100

182 88.6 47.3 141.8

145 17.0 14.6 44.0



Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.90 (144.60 to 145.60): V

