

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN081718\
 Data File : VN050748.D
 Acq On : 18 Aug 2018 3:44
 Operator : MD\SY
 Sample : J4500-24
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 37 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Aug 18 04:29:06 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	602449	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1002666	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	848131	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	292031	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	416687	54.87	ug/l	0.00
Spiked Amount			Recovery	=	109.74%	
35) Dibromofluoromethane	7.59	113	388530	48.54	ug/l	0.00
Spiked Amount			Recovery	=	97.08%	
50) Toluene-d8	10.09	98	1377049	45.71	ug/l	0.00
Spiked Amount			Recovery	=	91.42%	
62) 4-Bromofluorobenzene	12.40	95	367074	36.88	ug/l	0.00
Spiked Amount			Recovery	=	73.76%	

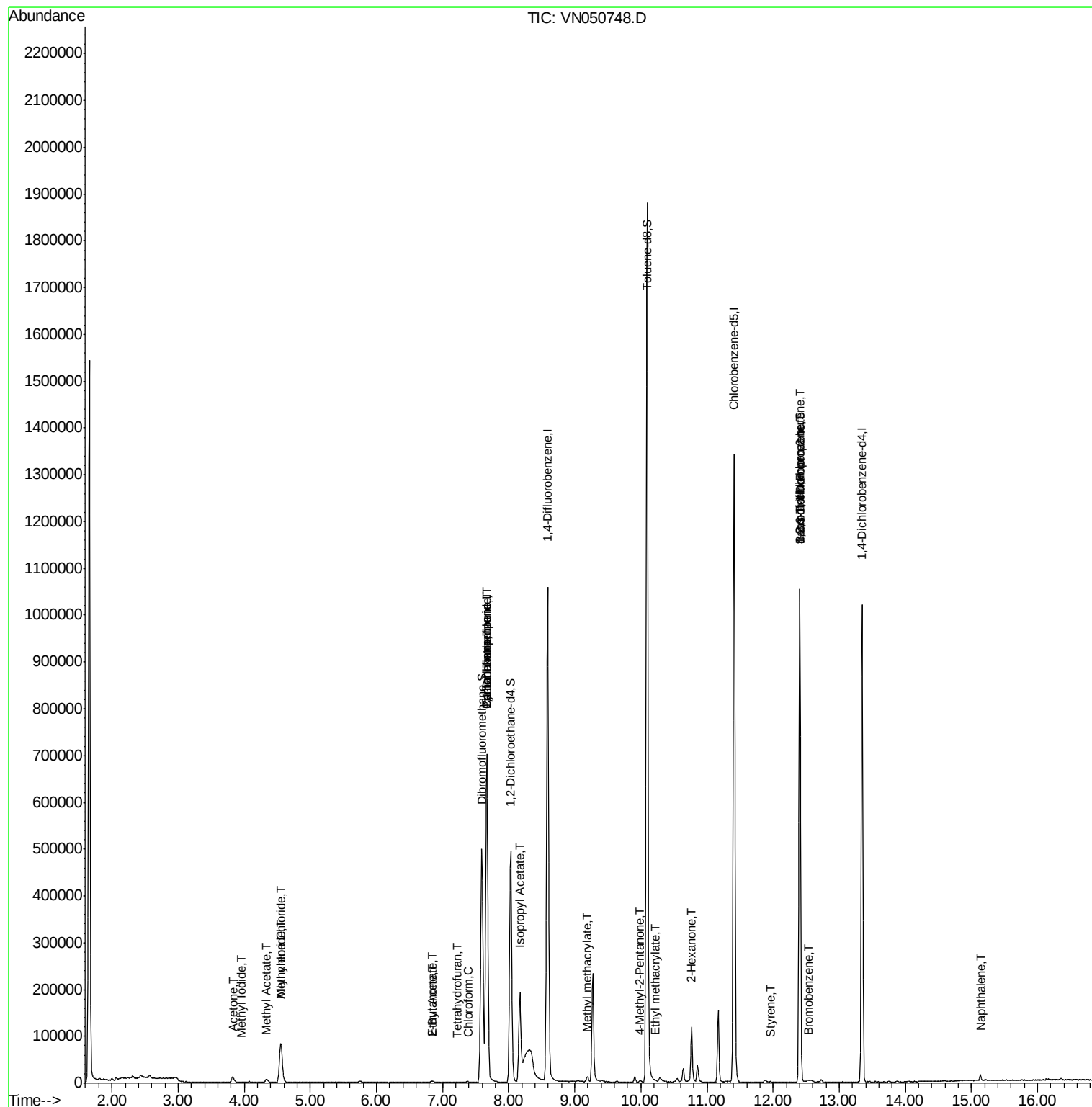
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.06	50	2991	Below Cal		97
5) Bromomethane	2.58	94	3095	Below Cal	#	74
6) Chloroethane	2.69	64	184	Below Cal	#	43
10) Methyl Iodide	3.96	142	771	7.08	ug/l	# 42
14) Allyl chloride	4.56	41	2417	0.24	ug/l	# 25
16) Acetone	3.83	43	20256	9.29	ug/l	99
18) Methyl Acetate	4.34	43	14073	1.68	ug/l	93
20) Methylene Chloride	4.55	84	65953	8.07	ug/l	97
25) 2-Butanone	6.85	43	3272	1.05	ug/l	# 82
29) Tetrahydrofuran	7.22	42	649	0.40	ug/l	# 45
30) Chloroform	7.38	83	3141	0.23	ug/l	87
31) Cyclohexane	7.67	56	10645	0.58	ug/l	# 1
36) 1,1-Dichloropropene	7.67	75	41310	3.70	ug/l	# 48
37) Ethyl Acetate	6.85	43	3272	0.52	ug/l	# 67
38) Carbon Tetrachloride	7.67	117	54012	4.66	ug/l	# 17
43) Isopropyl Acetate	8.17	43	231472	20.13	ug/l	99
48) Methyl methacrylate	9.18	41	7355	1.27	ug/l	# 20
51) 4-Methyl-2-Pentanone	9.99	43	2311	0.30	ug/l	97
56) Ethyl methacrylate	10.23	69	2140	2.12	ug/l	# 65
59) 2-Hexanone	10.77	43	16856	3.36	ug/l	# 58
70) Styrene	11.97	104	303	0.95	ug/l	# 32
71) Bromoform	12.40	173	3393	0.65	ug/l	# 1
75) 1,1,2,2-Tetrachloroethane	12.40	83	142	Below Cal	#	1
76) 1,2,3-Trichloropropane	12.40	75	172637	36.31	ug/l	# 100
77) Bromobenzene	12.54	156	1409	0.23	ug/l	# 1
81) trans-1,4-Dichloro-2-buten	12.40	75	172637	131.43	ug/l	# 13
95) Naphthalene	15.14	128	10323	4.71	ug/l	# 94

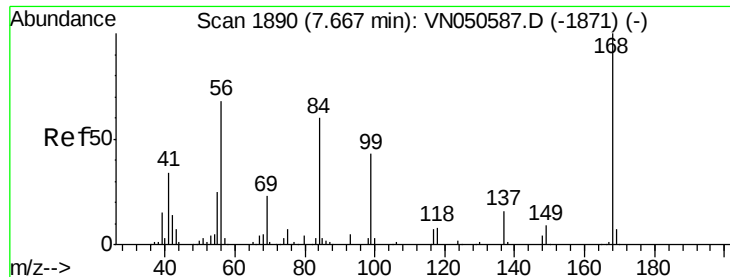
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VN050748.D

Acq: 18 Aug 2018 3:44

Instrument :

MSVOA_N

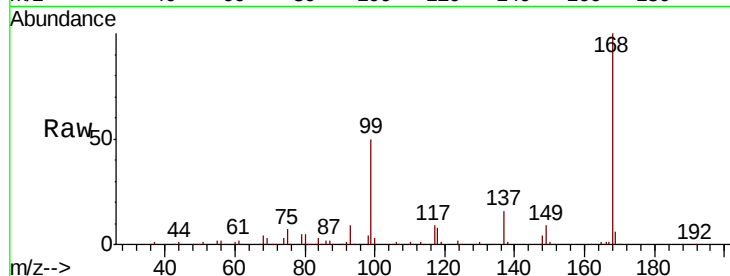
ClientSampled :

Tot Ion:168 Resp: 602449

Ion Ratio Lower Upper

168 100

99 49.9 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

250000

200000

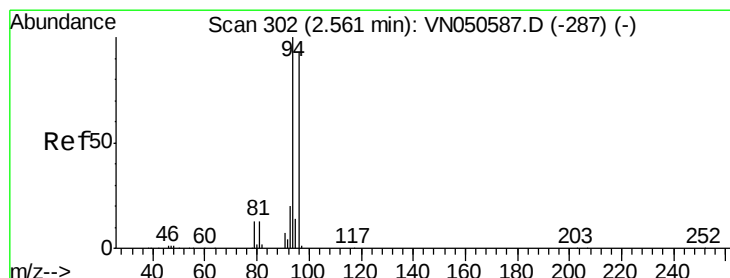
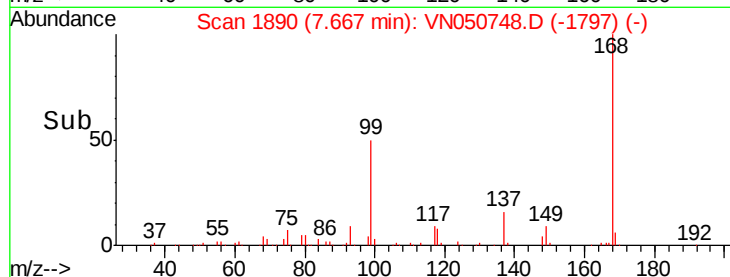
150000

100000

50000

0

Time-->



#5

Bromomethane

Concen: Below Cal

RT: 2.58 min Scan# 307

Delta R.T. 0.02 min

Lab File: VN050748.D

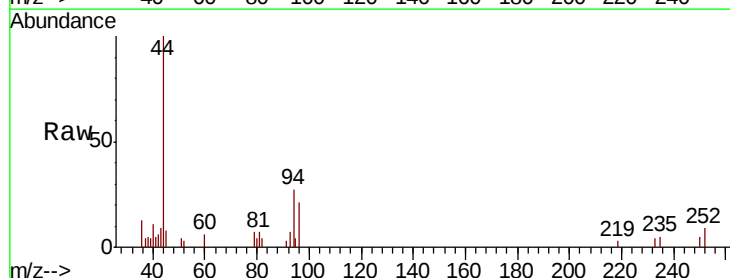
Acq: 18 Aug 2018 3:44

Tgt Ion: 94 Resp: 3095

Ion Ratio Lower Upper

94 100

96 67.2 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) (-)

2.58

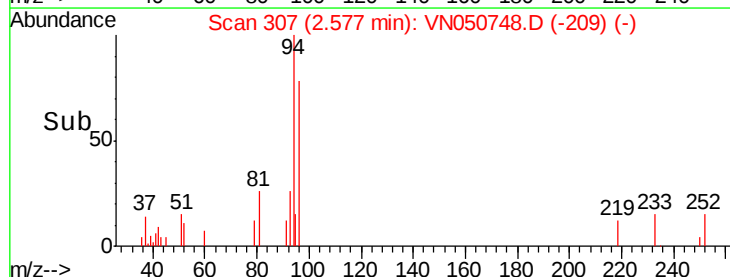
1500

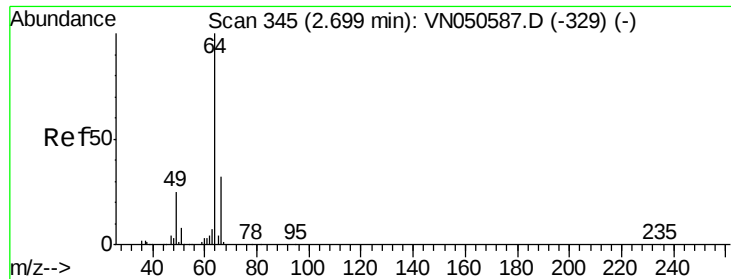
1000

500

0

Time-->





#6

Chloroethane

Concen: Below Cal

RT: 2.69 min Scan# 343

Delta R.T. -0.01 min

Lab File: VN050748.D

Acq: 18 Aug 2018 3:44

Instrument :

MSVOA_N

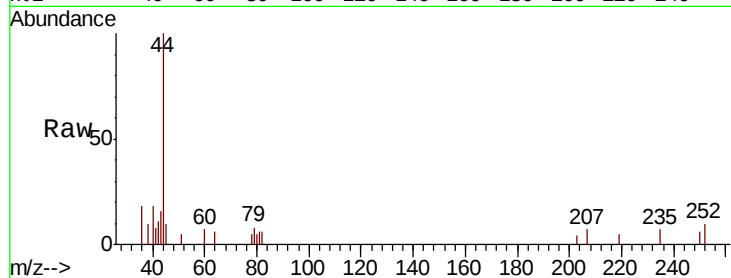
ClientSampleId :

Tot Ion: 64 Resp: 184

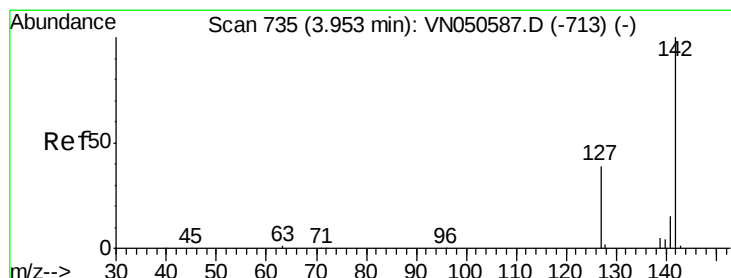
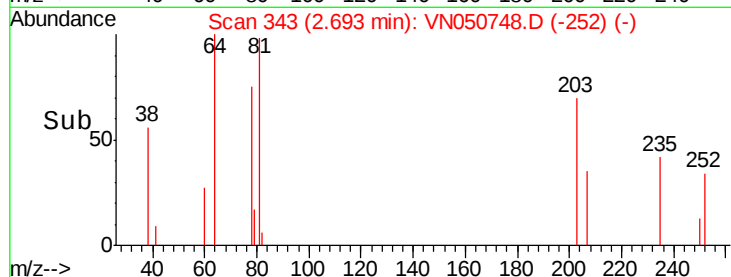
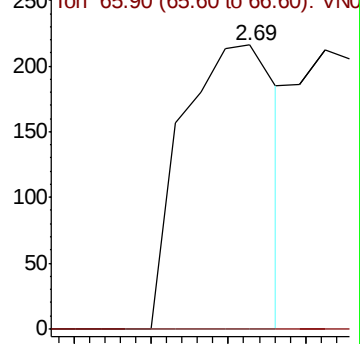
Ion Ratio Lower Upper

64 100

66 0.0 25.7 38.5#



Abundance Ion 63.90 (63.60 to 64.60): VN050748.D (-252) (-)



#10

Methyl Iodide

Concen: 7.08 ug/l

RT: 3.96 min Scan# 738

Delta R.T. 0.01 min

Lab File: VN050748.D

Acq: 18 Aug 2018 3:44

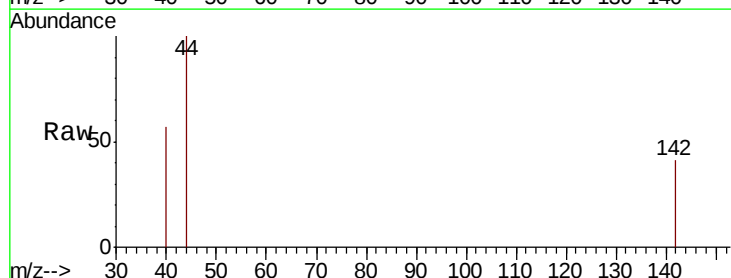
Tgt Ion: 142 Resp: 771

Ion Ratio Lower Upper

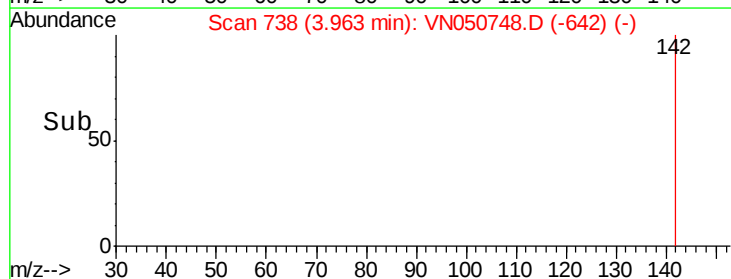
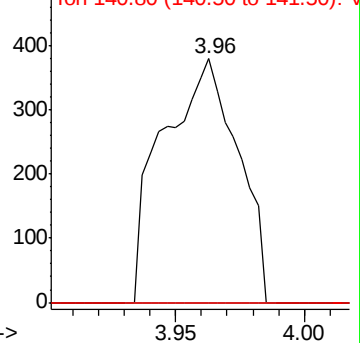
142 100

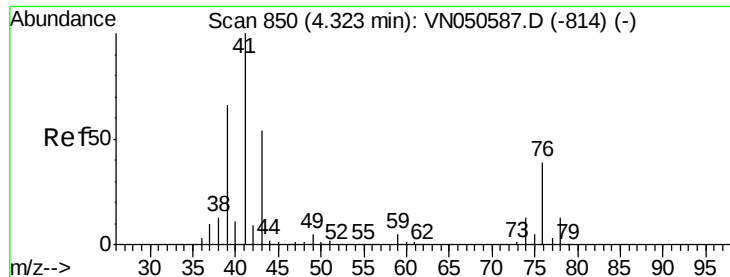
127 0.0 32.6 49.0#

141 0.0 11.5 17.3#



Abundance Ion 141.80 (141.50 to 142.50): VN050748.D (-642) (-)

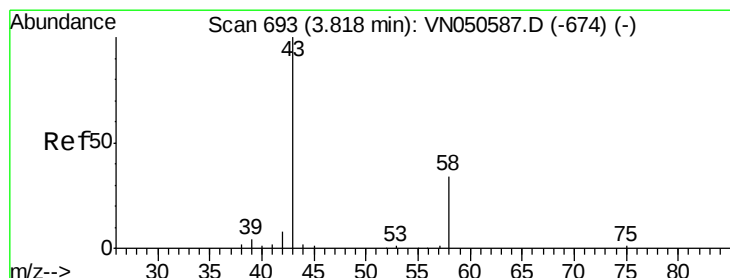
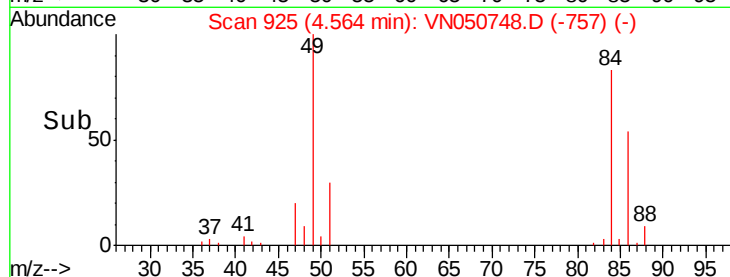
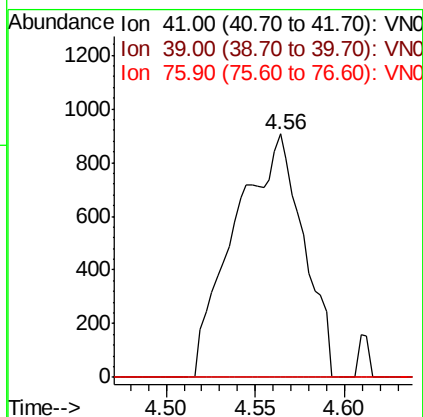
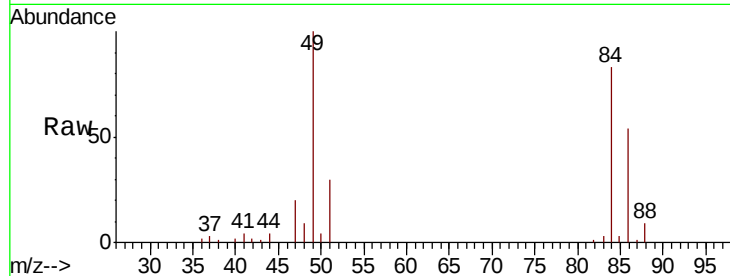




#14
Allvl chloride
Concen: 0.24 ug/l
RT: 4.56 min Scan# 925
Delta R.T. 0.24 min
Lab File: VN050748.D
Acq: 18 Aug 2018 3:44

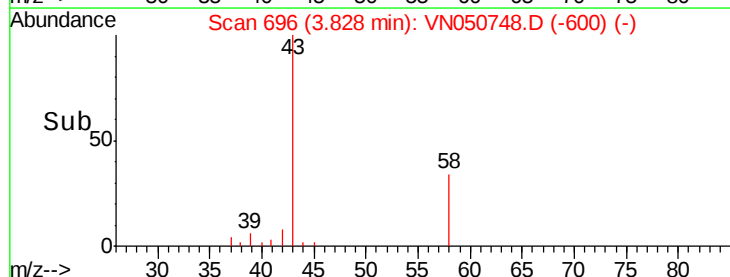
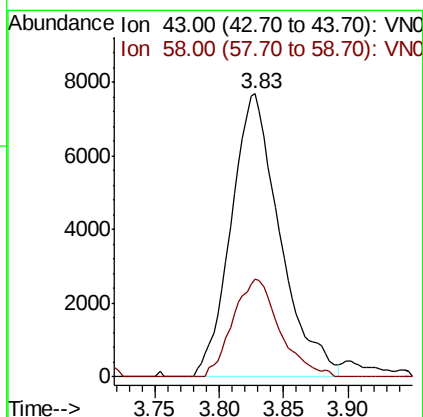
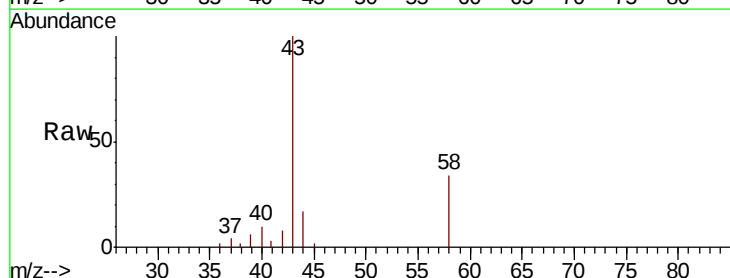
Instrument :
MSVOA_N
ClientSampleId :

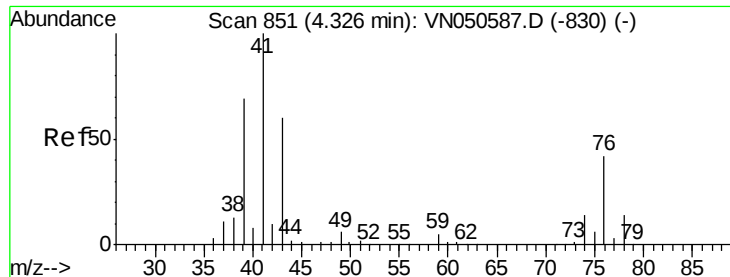
Tot Ion: 41 Resp: 2417
Ion Ratio Lower Upper
41 100
39 0.0 51.4 77.0#
76 0.0 29.4 44.0#



#16
Acetone
Concen: 9.29 ug/l
RT: 3.83 min Scan# 696
Delta R.T. 0.01 min
Lab File: VN050748.D
Acq: 18 Aug 2018 3:44

Tgt Ion: 43 Resp: 20256
Ion Ratio Lower Upper
43 100
58 34.4 27.1 40.7

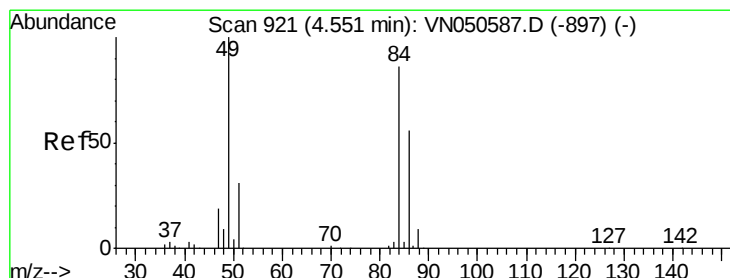
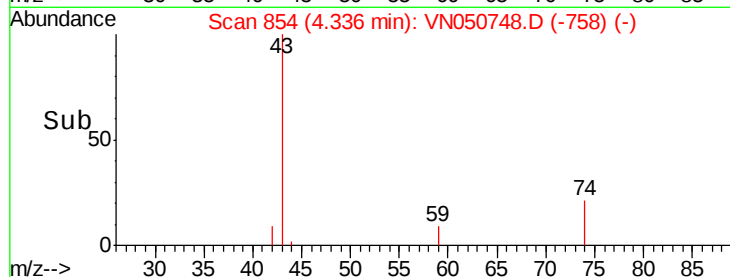
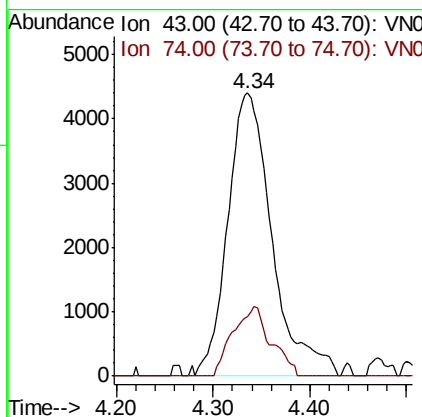
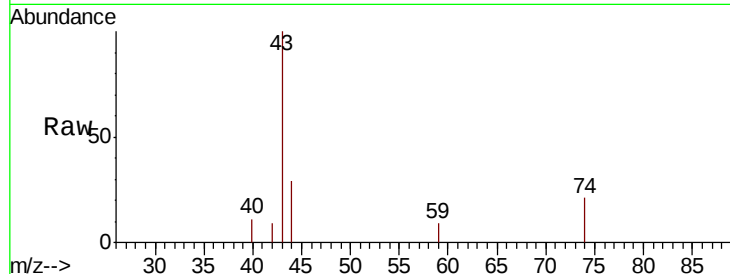




#18
Methvl Acetate
Concen: 1.68 ug/l
RT: 4.34 min Scan# 854
Delta R.T. 0.01 min
Lab File: VN050748.D
Acq: 18 Aug 2018 3:44

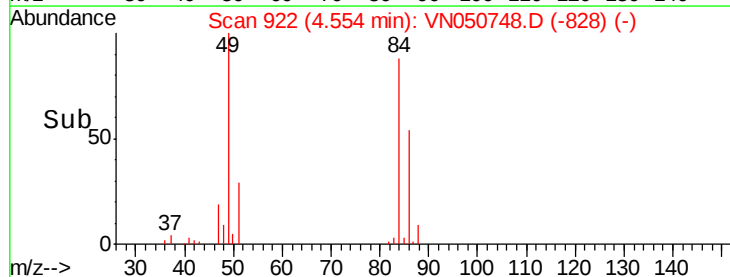
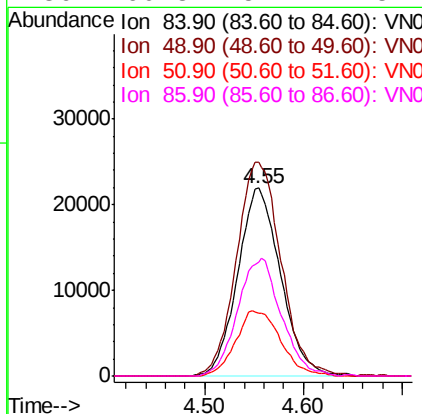
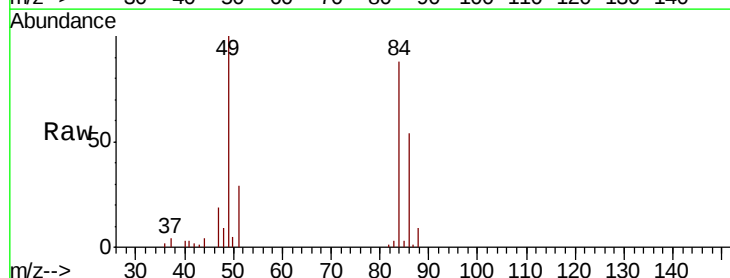
Instrument :
MSVOA_N
ClientSampleId :

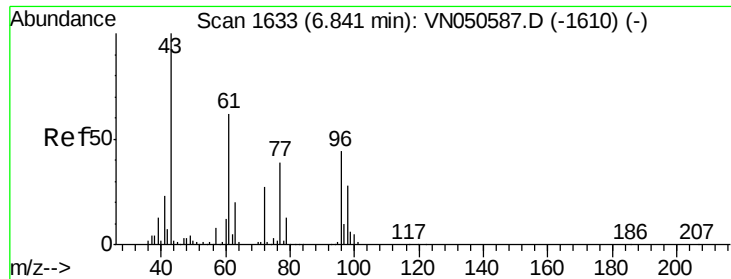
Tot Ion: 43 Resp: 14073
Ion Ratio Lower Upper
43 100
74 21.0 19.7 29.5



#20
Methylene Chloride
Concen: 8.07 ug/l
RT: 4.55 min Scan# 922
Delta R.T. 0.00 min
Lab File: VN050748.D
Acq: 18 Aug 2018 3:44

Tgt Ion: 84 Resp: 65953
Ion Ratio Lower Upper
84 100
49 113.6 92.6 138.8
51 33.1 28.6 43.0
86 60.8 52.2 78.2

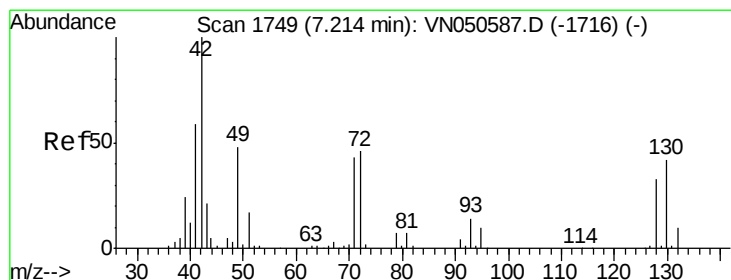
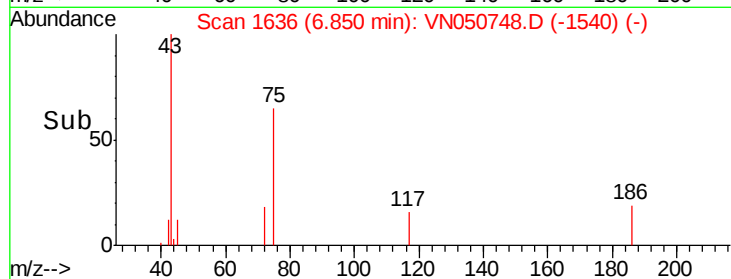
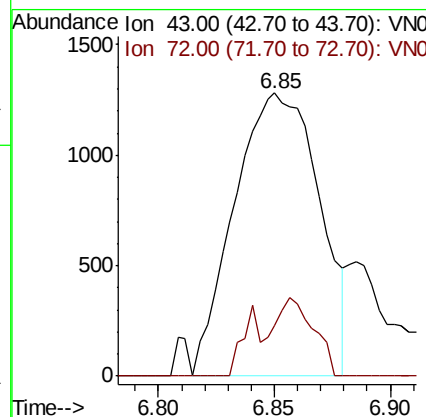
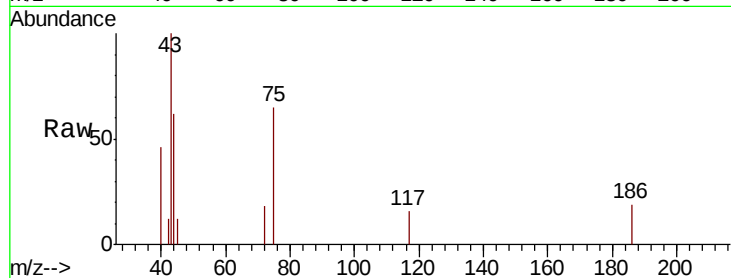




#25
2-Butanone
Concen: 1.05 ug/l
RT: 6.85 min Scan# 1636
Delta R.T. 0.01 min
Lab File: VN050748.D
Acq: 18 Aug 2018 3:44

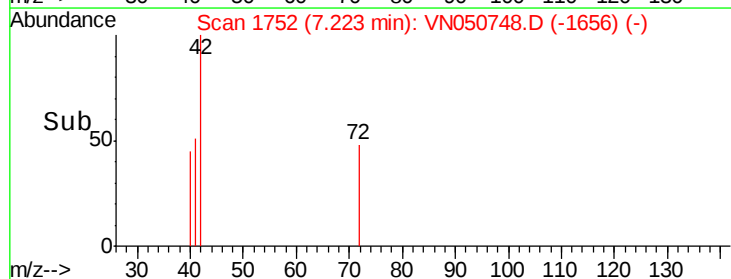
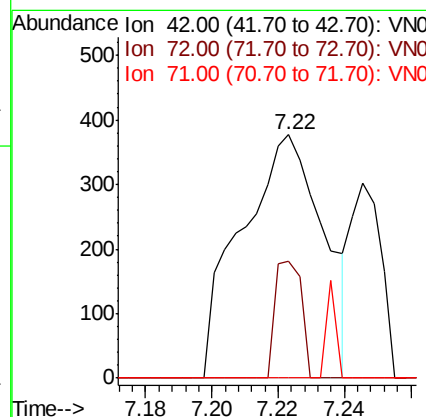
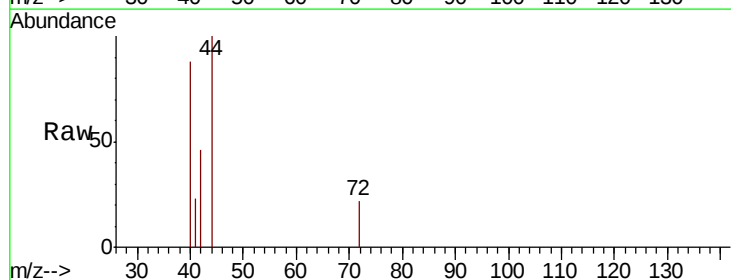
Instrument :
MSVOA_N
ClientSampled :

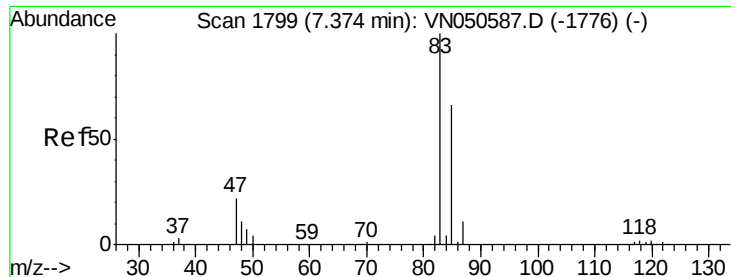
Tot Ion: 43 Resp: 3272
Ion Ratio Lower Upper
43 100
72 17.9 21.8 32.6#



#29
Tetrahydrofuran
Concen: 0.40 ug/l
RT: 7.22 min Scan# 1752
Delta R.T. 0.01 min
Lab File: VN050748.D
Acq: 18 Aug 2018 3:44

Tgt Ion: 42 Resp: 649
Ion Ratio Lower Upper
42 100
72 15.4 35.8 53.6#
71 0.0 33.4 50.0#

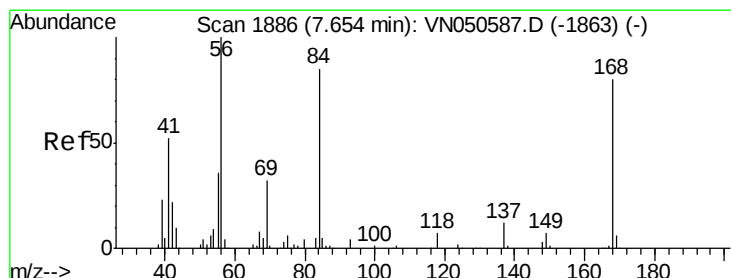
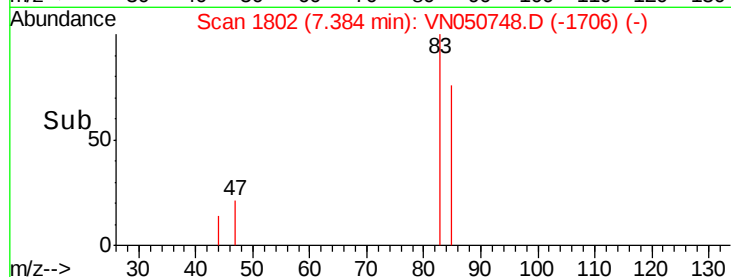
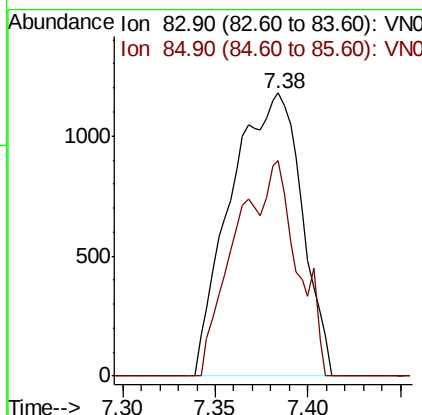
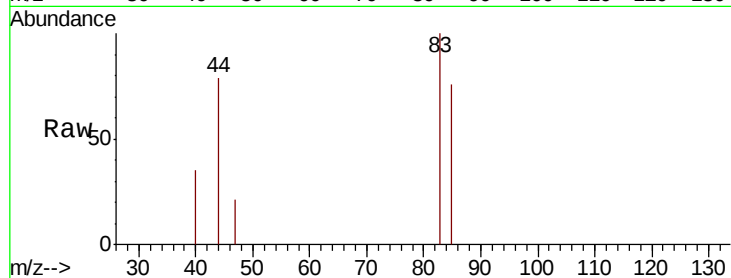




#30
Chloroform
Concen: 0.23 ug/l
RT: 7.38 min Scan# 1802
Delta R.T. 0.01 min
Lab File: VN050748.D
Acq: 18 Aug 2018 3:44

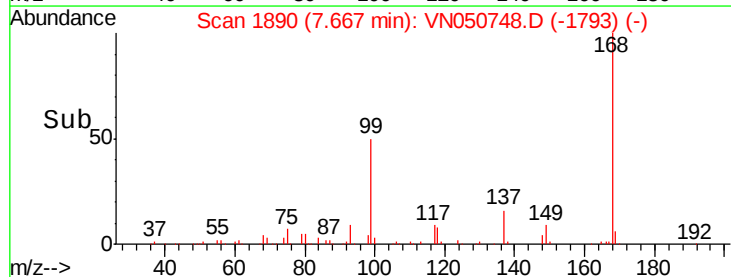
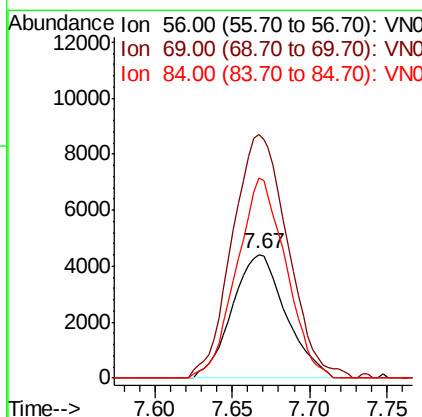
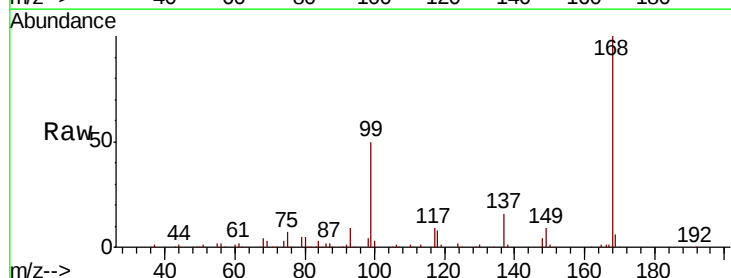
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MSVOA_N
ClientSampled :

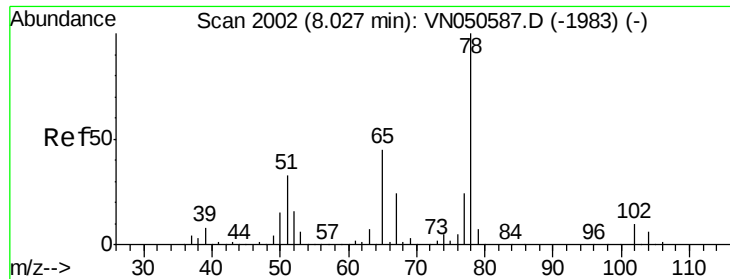
Tot Ion: 83 Resp: 3141
Ion Ratio Lower Upper
83 100
85 76.1 52.5 78.7



#31
Cyclohexane
Concen: 0.58 ug/l
RT: 7.67 min Scan# 1890
Delta R.T. 0.01 min
Lab File: VN050748.D
Acq: 18 Aug 2018 3:44

Tgt Ion: 56 Resp: 10645
Ion Ratio Lower Upper
56 100
69 197.1 25.8 38.6#
84 161.6 67.8 101.6#

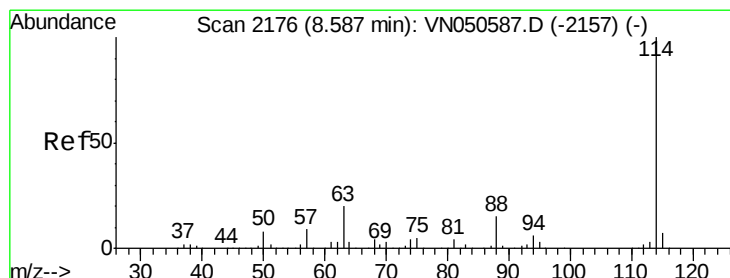
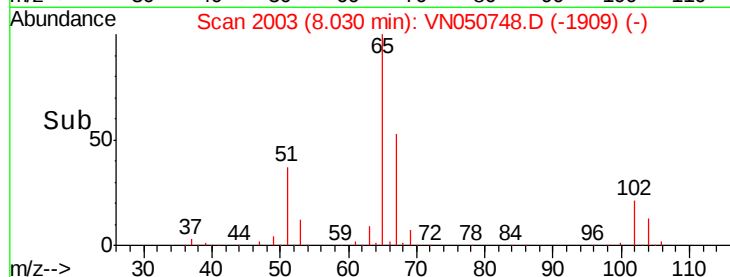
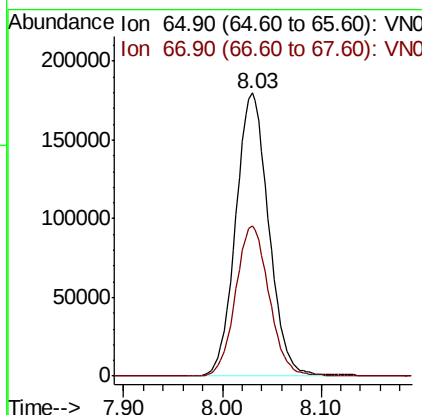
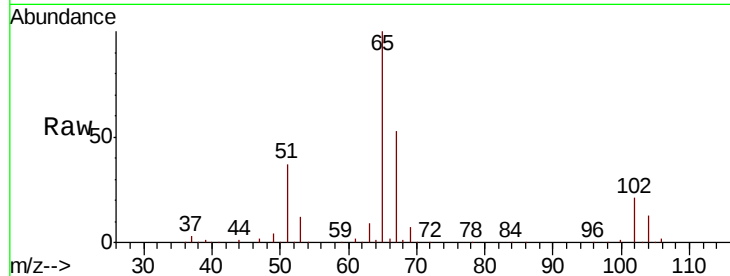




#33
 1,2-Dichloroethane-d4
 Concen: 54.87 ug/l
 RT: 8.03 min Scan# 2003
 Delta R.T. 0.00 min
 Lab File: VN050748.D
 Acq: 18 Aug 2018 3:44

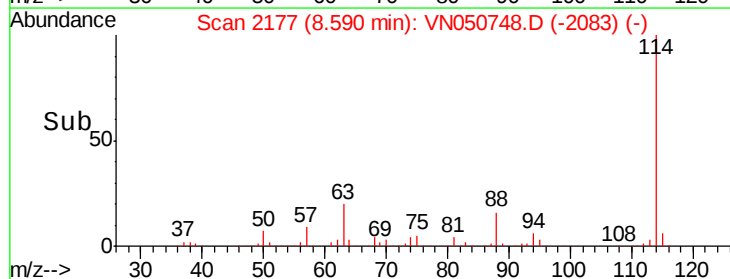
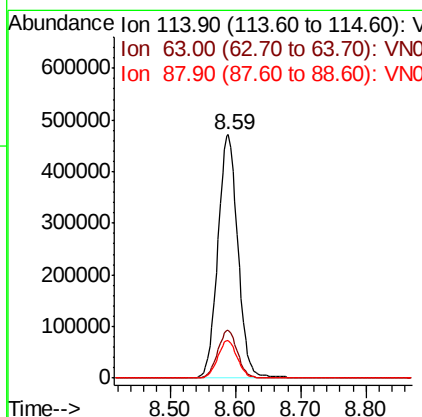
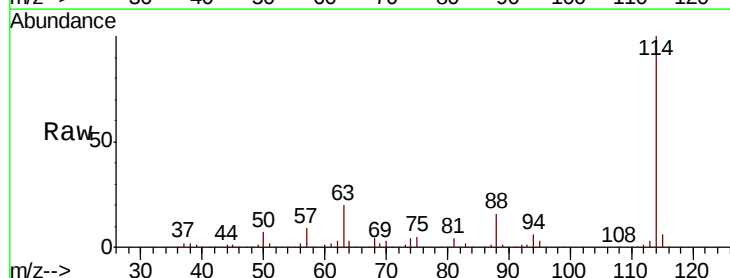
Instrument :
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 ClientSampled :

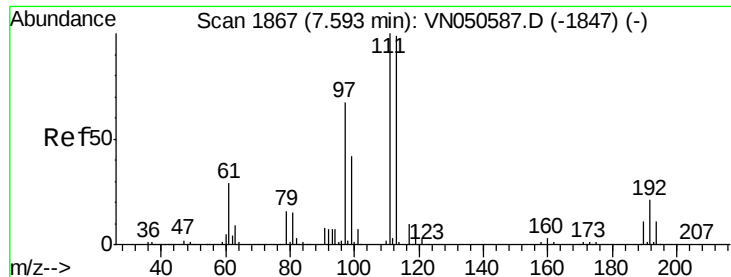
Tot Ion: 65 Resp: 416687
 Ion Ratio Lower Upper
 65 100
 67 54.1 0.0 109.8



#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 8.59 min Scan# 2177
 Delta R.T. 0.00 min
 Lab File: VN050748.D
 Acq: 18 Aug 2018 3:44

Tgt Ion: 114 Resp: 1002666
 Ion Ratio Lower Upper
 114 100
 63 19.8 0.0 40.0
 88 15.5 0.0 30.8

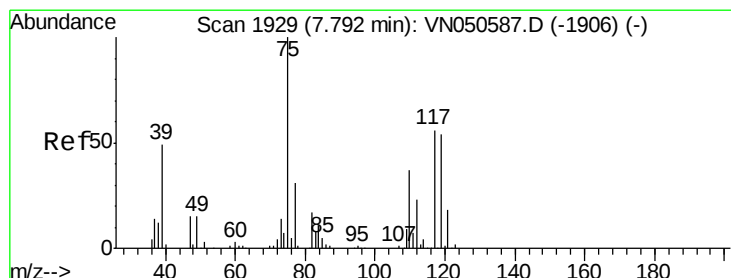
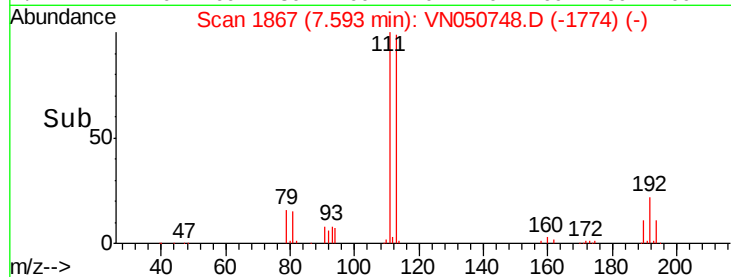
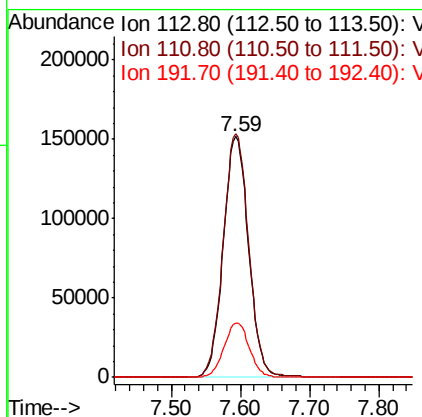
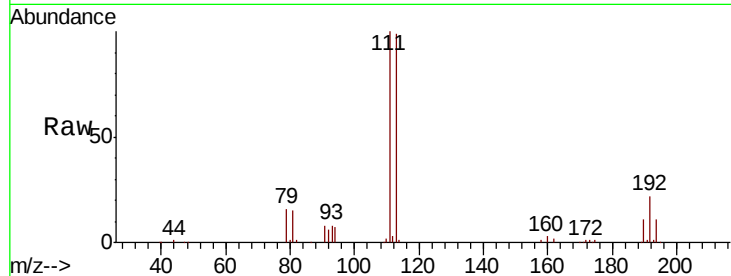




#35
 Dibromofluoromethane
 Concen: 48.54 ug/l
 RT: 7.59 min Scan# 1867
 Delta R.T. -0.00 min
 Lab File: VN050748.D
 Acq: 18 Aug 2018 3:44

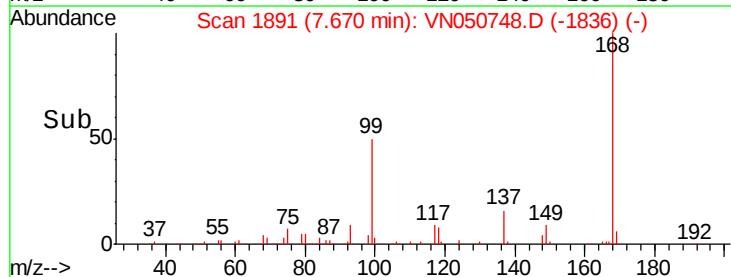
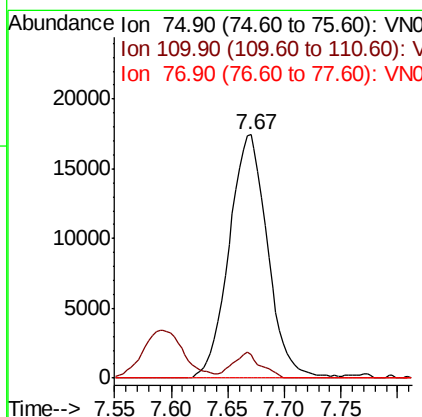
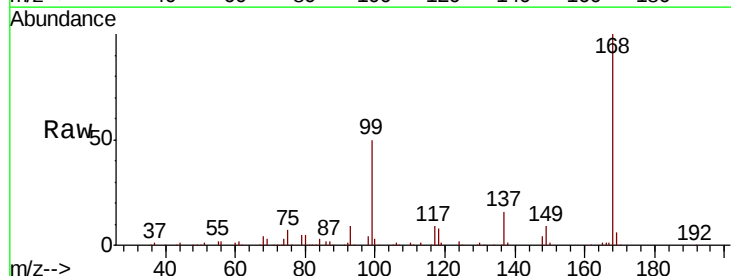
Instrument :
 MSVOA_N
 ClientSampleId :

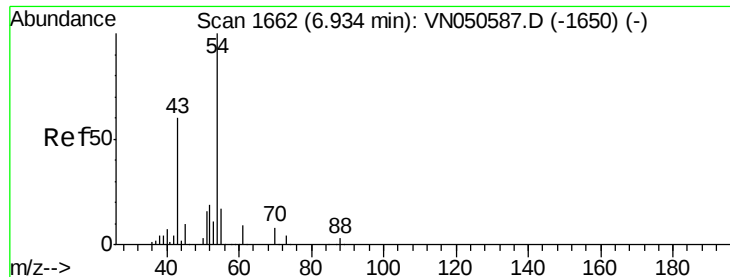
Tot Ion	Ratio	Lower	Upper
113	100		
111	101.8	81.0	121.6
192	22.4	17.6	26.4



#36
 1,1-Dichloropropene
 Concen: 3.70 ug/l
 RT: 7.67 min Scan# 1891
 Delta R.T. -0.12 min
 Lab File: VN050748.D
 Acq: 18 Aug 2018 3:44

Tgt Ion	Ratio	Lower	Upper
75	100		
110	7.7	18.3	54.9#
77	0.0	25.0	37.4#

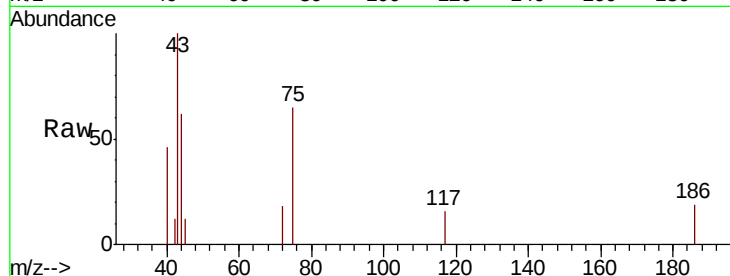




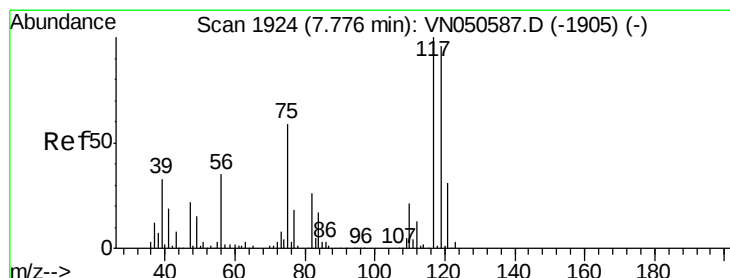
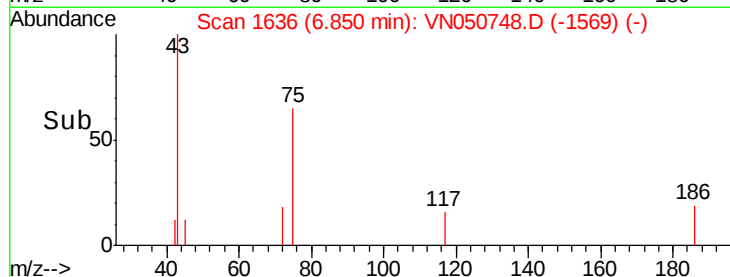
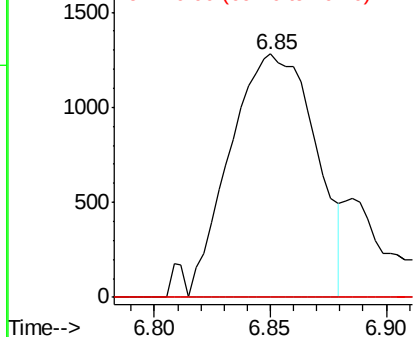
#37
Ethyl Acetate
Concen: 0.52 ug/l
RT: 6.85 min Scan# 1636
Delta R.T. -0.08 min
Lab File: VN050748.D
Acq: 18 Aug 2018 3:44

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion: 43 Resp: 3272
Ion Ratio Lower Upper
43 100
61 0.0 12.0 18.0#
70 0.0 8.5 12.7#

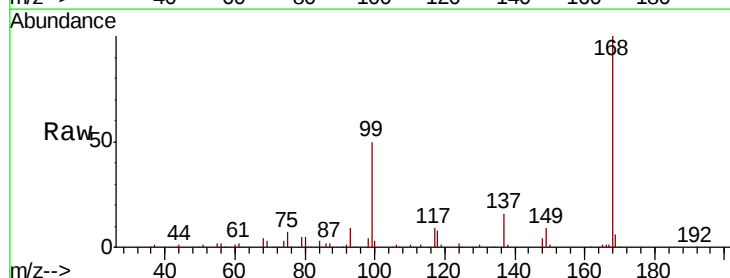


Abundance Ion 43.00 (42.70 to 43.70): VN0
Ion 60.90 (60.60 to 61.60): VN0
Ion 70.00 (69.70 to 70.70): VN0

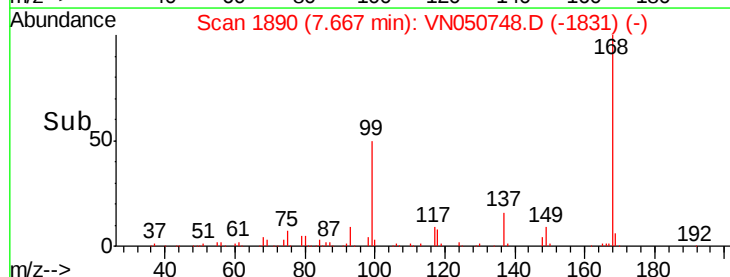
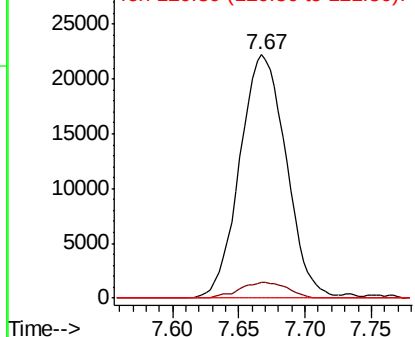


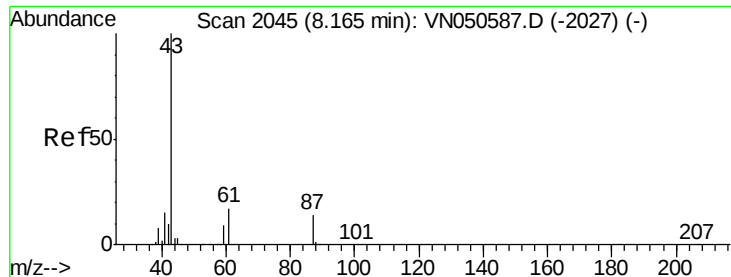
#38
Carbon Tetrachloride
Concen: 4.66 ug/l
RT: 7.67 min Scan# 1890
Delta R.T. -0.11 min
Lab File: VN050748.D
Acq: 18 Aug 2018 3:44

Tgt Ion: 117 Resp: 54012
Ion Ratio Lower Upper
117 100
119 6.5 76.6 115.0#
121 0.0 25.0 37.6#



Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V





#43

Isopropyl Acetate

Concen: 20.13 ug/l

RT: 8.17 min Scan# 2046

Delta R.T. 0.00 min

Lab File: VN050748.D

Acq: 18 Aug 2018 3:44

Instrument :

MSVOA_N

ClientSampleId :

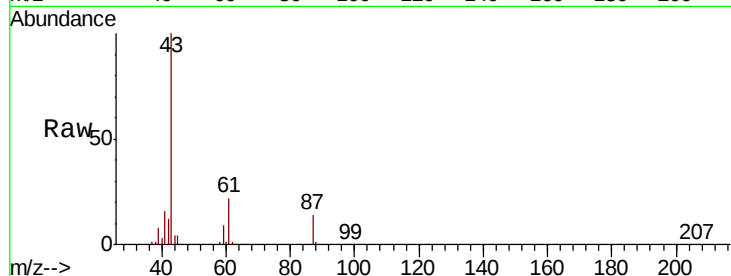
Tot Ion: 43 Resp: 231472

Ion Ratio Lower Upper

43 100

61 20.4 16.2 24.2

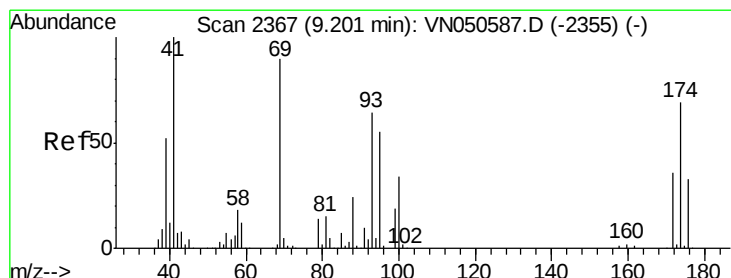
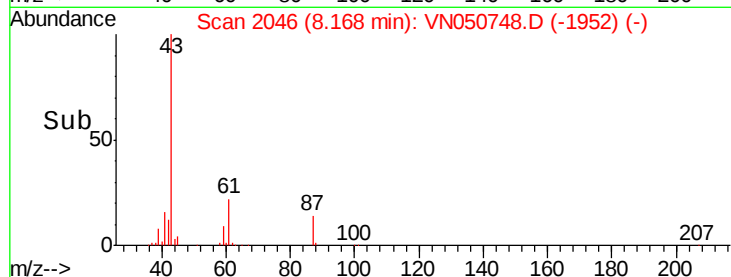
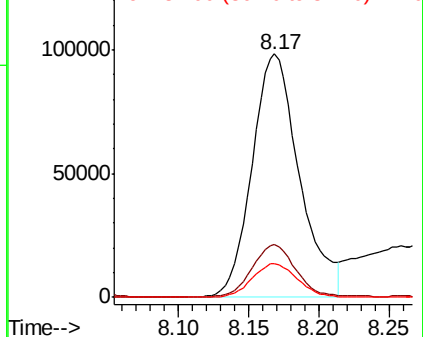
87 13.2 10.9 16.3



Abundance Ion 43.00 (42.70 to 43.70): VN050587.D (-2027) (-)

Ion 61.00 (60.70 to 61.70): VN050587.D (-2027) (-)

Ion 87.00 (86.70 to 87.70): VN050587.D (-2027) (-)



#48

Methyl methacrylate

Concen: 1.27 ug/l

RT: 9.18 min Scan# 2362

Delta R.T. -0.02 min

Lab File: VN050748.D

Acq: 18 Aug 2018 3:44

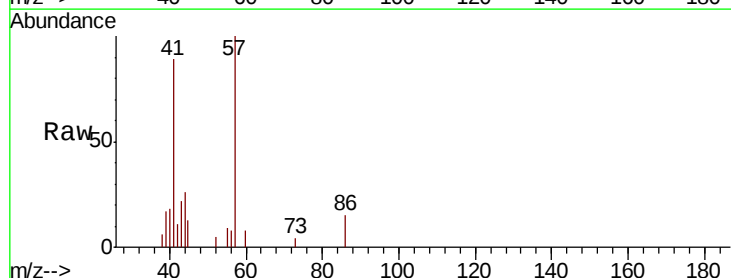
Tgt Ion: 41 Resp: 7355

Ion Ratio Lower Upper

41 100

69 0.0 73.4 110.0#

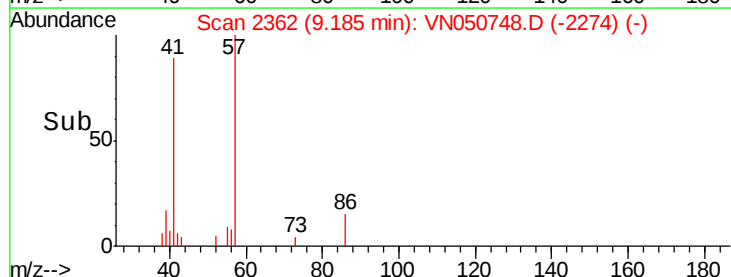
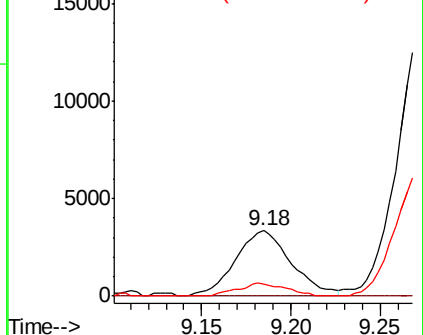
39 17.1 43.0 64.6#

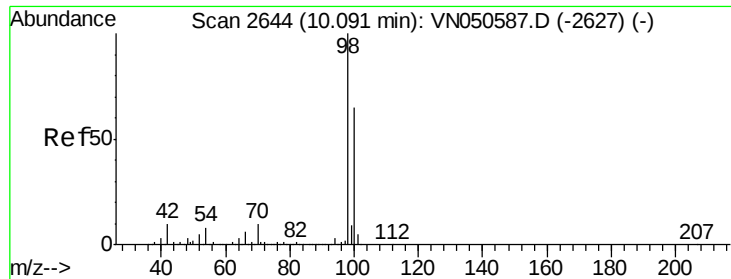


Abundance Ion 41.00 (40.70 to 41.70): VN050587.D (-2355) (-)

Ion 69.00 (68.70 to 69.70): VN050587.D (-2355) (-)

Ion 39.00 (38.70 to 39.70): VN050587.D (-2355) (-)

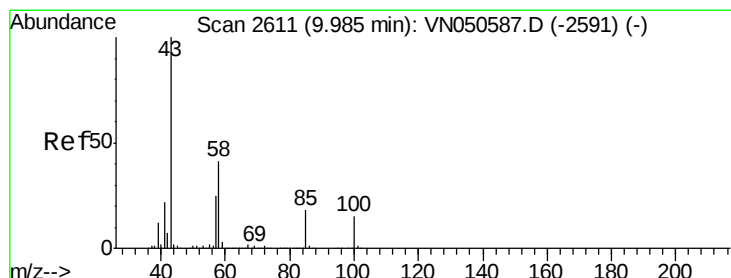
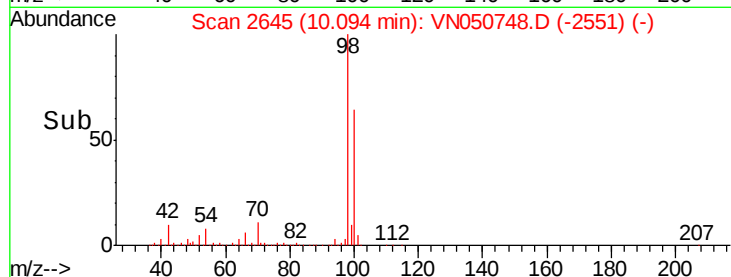
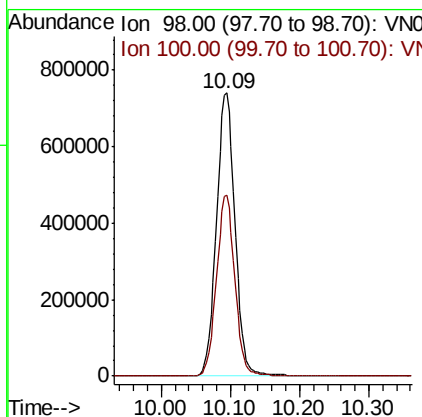
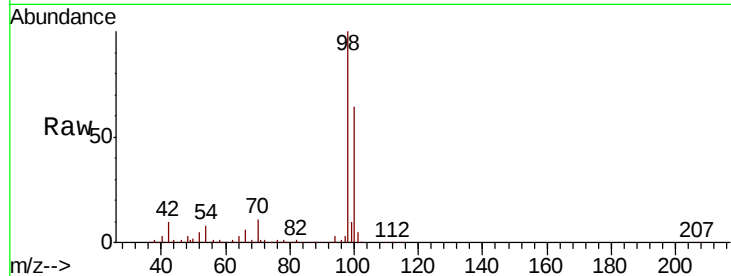




#50
Toluene-d8
Concen: 45.71 ug/l
RT: 10.09 min Scan# 2645
Delta R.T. 0.00 min
Lab File: VN050748.D
Acq: 18 Aug 2018 3:44

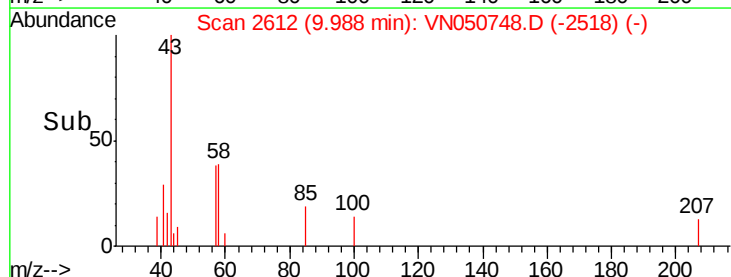
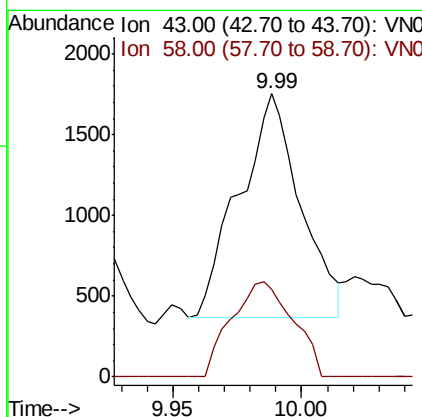
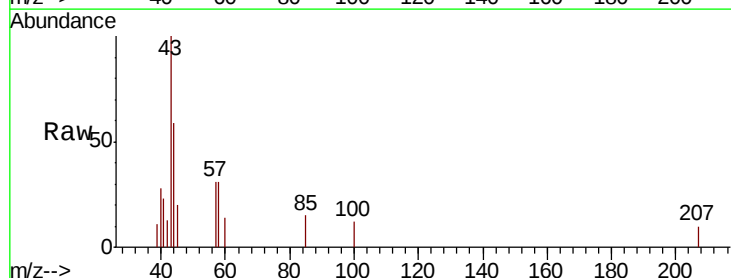
Instrument :
MSVOA_N
ClientSampled :

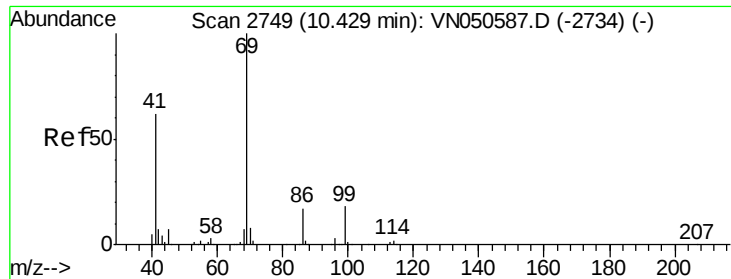
Tot Ion: 98 Resp: 1377049
Ion Ratio Lower Upper
98 100
100 63.2 51.8 77.8



#51
4-Methyl-2-Pentanone
Concen: 0.30 ug/l
RT: 9.99 min Scan# 2612
Delta R.T. 0.00 min
Lab File: VN050748.D
Acq: 18 Aug 2018 3:44

Tgt Ion: 43 Resp: 2311
Ion Ratio Lower Upper
43 100
58 42.4 32.5 48.7





#56

Ethyl methacrylate

Concen: 2.12 ug/l

RT: 10.23 min Scan# 2688

Delta R.T. -0.20 min

Lab File: VN050748.D

Acq: 18 Aug 2018 3:44

Instrument :

MSVOA_N

ClientSampled :

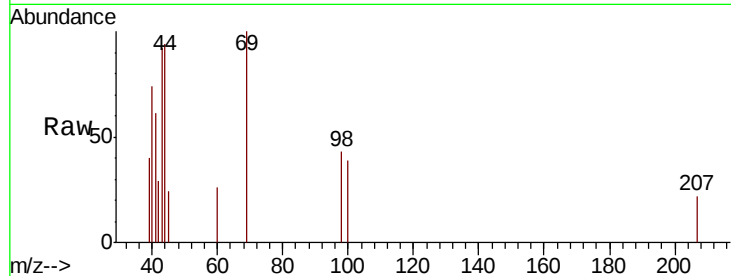
Tot Ion: 69 Resp: 2140

Ion Ratio Lower Upper

69 100

41 29.6 49.7 74.5#

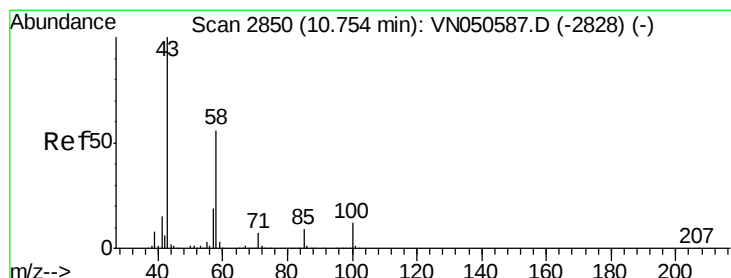
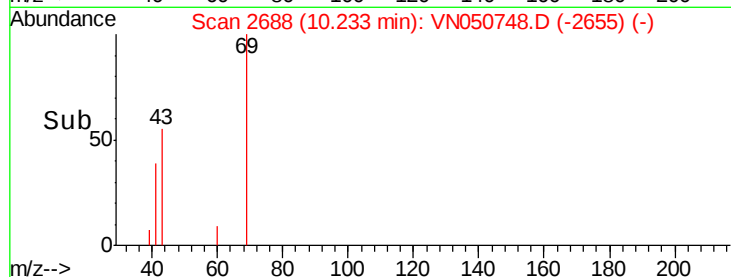
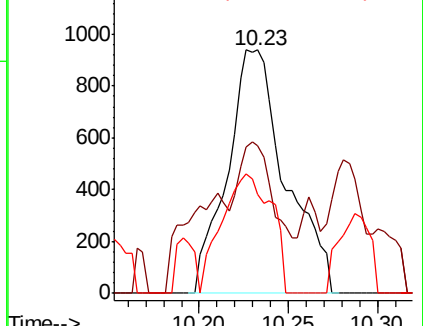
39 41.6 24.2 36.2#



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: 3.36 ug/l

RT: 10.77 min Scan# 2854

Delta R.T. 0.01 min

Lab File: VN050748.D

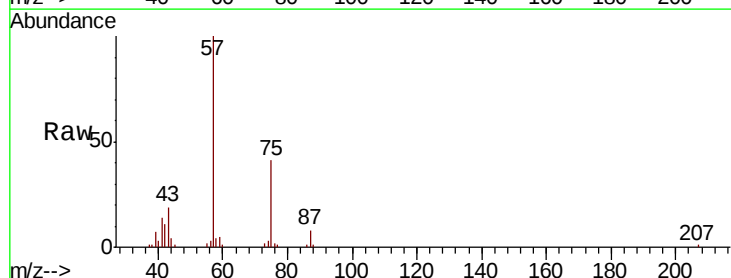
Acq: 18 Aug 2018 3:44

Tgt Ion: 43 Resp: 16856

Ion Ratio Lower Upper

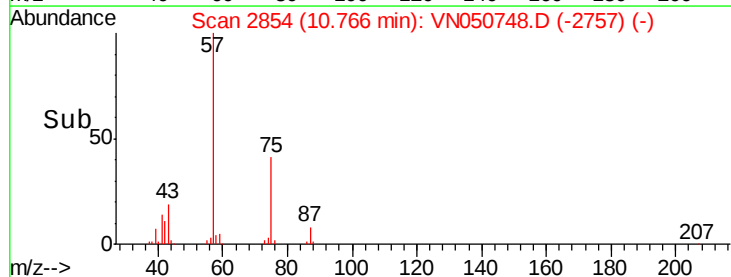
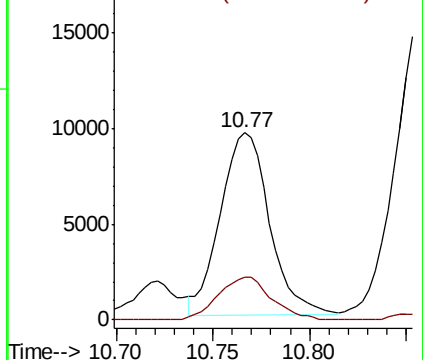
43 100

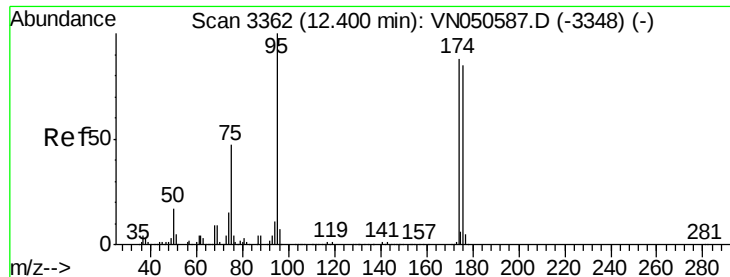
58 25.4 28.0 84.0#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

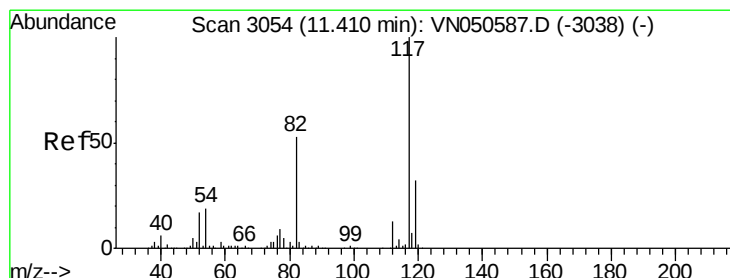
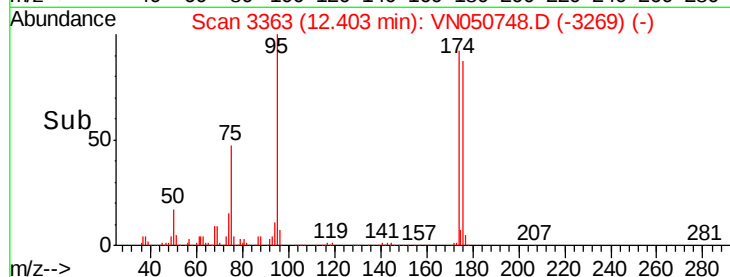
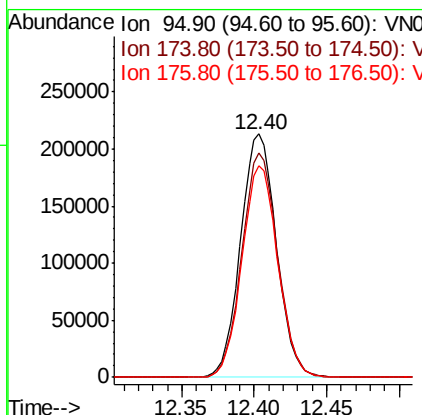
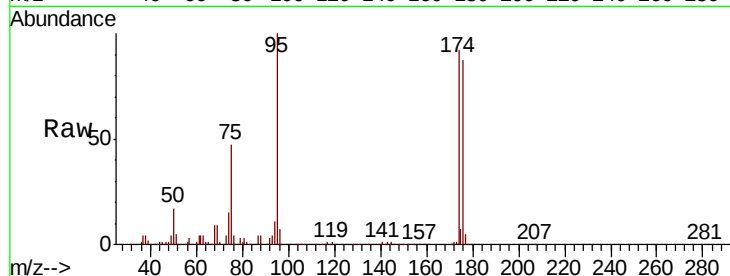




#62
4-Bromofluorobenzene
Concen: 36.88 ug/l
RT: 12.40 min Scan# 3363
Delta R.T. 0.00 min
Lab File: VN050748.D
Acq: 18 Aug 2018 3:44

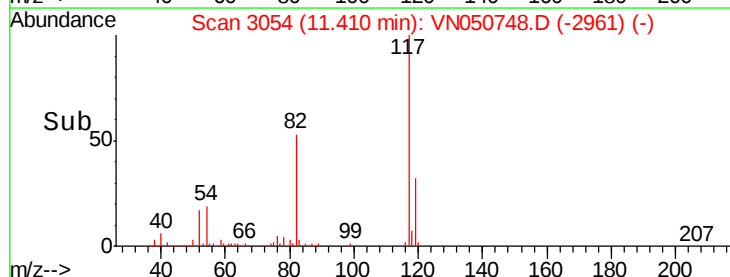
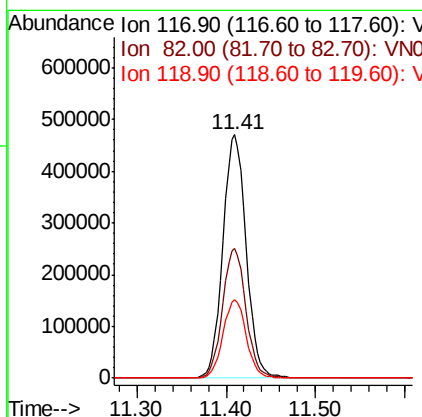
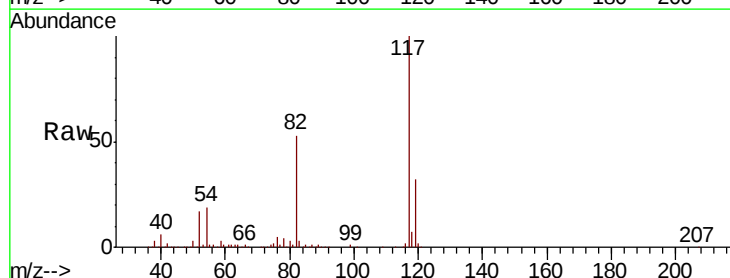
Instrument :
MSVOA_N
ClientSampleId :

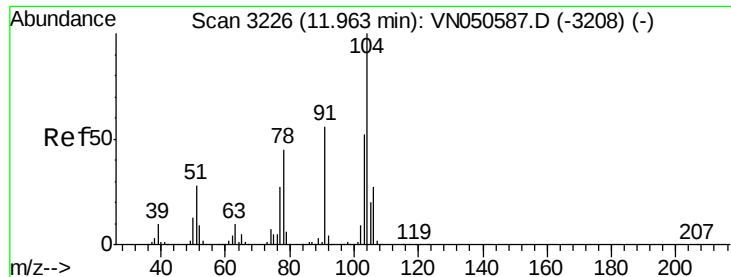
Tot Ion: 95 Resp: 367074
Ion Ratio Lower Upper
95 100
174 92.0 0.0 177.8
176 87.1 0.0 175.0



#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 11.41 min Scan# 3054
Delta R.T. -0.00 min
Lab File: VN050748.D
Acq: 18 Aug 2018 3:44

Tgt Ion: 117 Resp: 848131
Ion Ratio Lower Upper
117 100
82 53.2 42.4 63.6
119 32.1 25.8 38.8

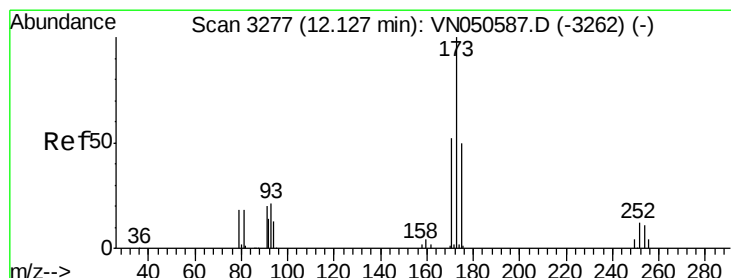
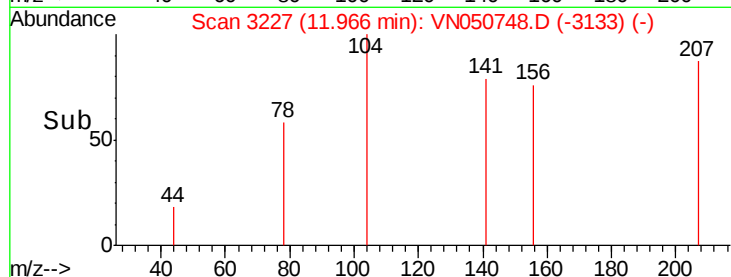
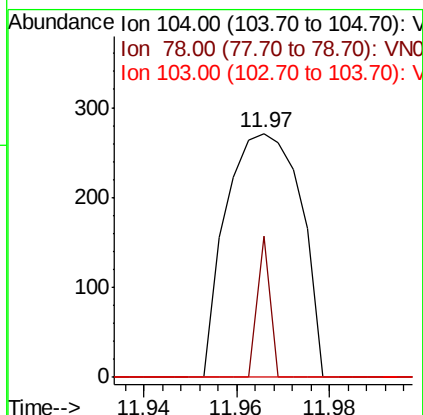
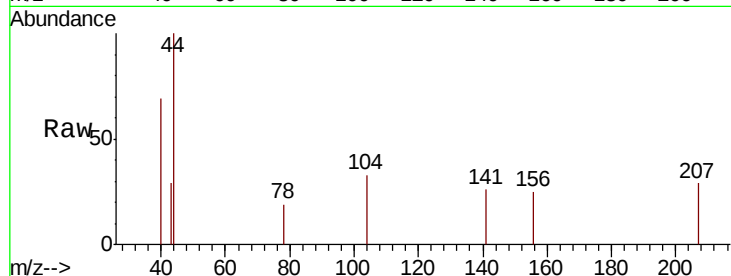




#70
Stvrene
Concen: 0.95 ug/l
RT: 11.97 min Scan# 3227
Delta R.T. 0.00 min
Lab File: VN050748.D
Acq: 18 Aug 2018 3:44

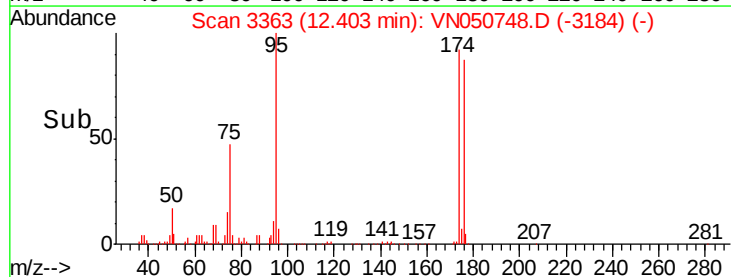
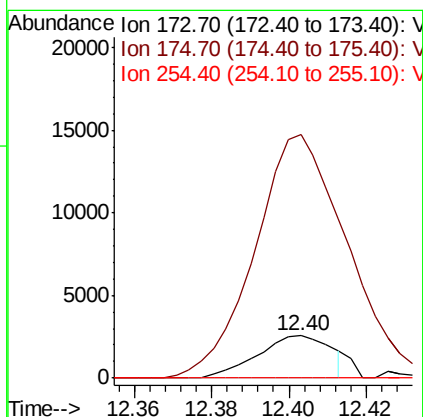
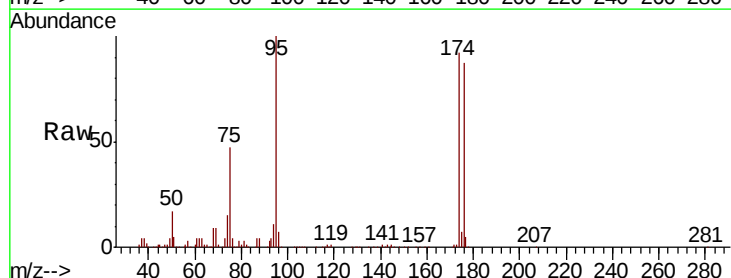
Instrument :
MSVOA_N
ClientSampleId :

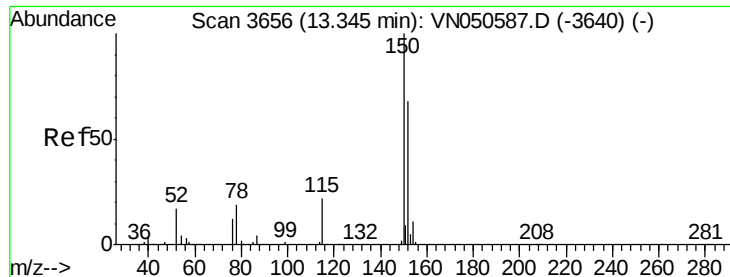
Tot Ion:104 Resp: 303
Ion Ratio Lower Upper
104 100
78 9.9 39.1 58.7#
103 0.0 44.9 67.3#



#71
Bromoform
Concen: 0.65 ug/l
RT: 12.40 min Scan# 3363
Delta R.T. 0.28 min
Lab File: VN050748.D
Acq: 18 Aug 2018 3:44

Tgt Ion:173 Resp: 3393
Ion Ratio Lower Upper
173 100
175 592.6 24.4 73.2#
254 0.0 0.0 0.0





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 13.35 min Scan# 3656

Delta R.T. -0.00 min

Lab File: VN050748.D

Acq: 18 Aug 2018 3:44

Instrument :

MSVOA_N

ClientSampleId :

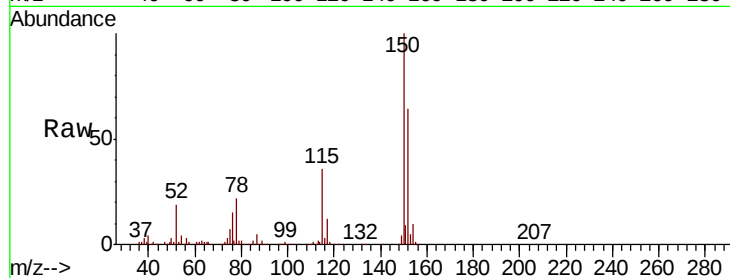
Tot Ion:152 Resp: 292031

Ion Ratio Lower Upper

152 100

115 55.5 28.1 84.2

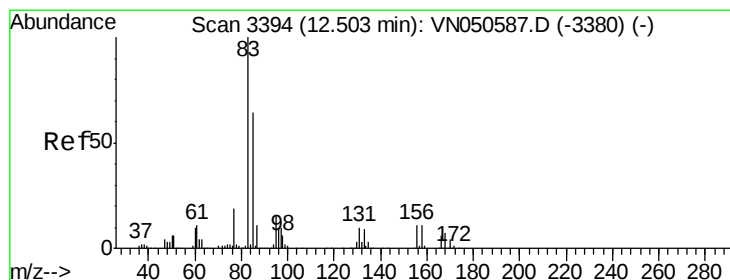
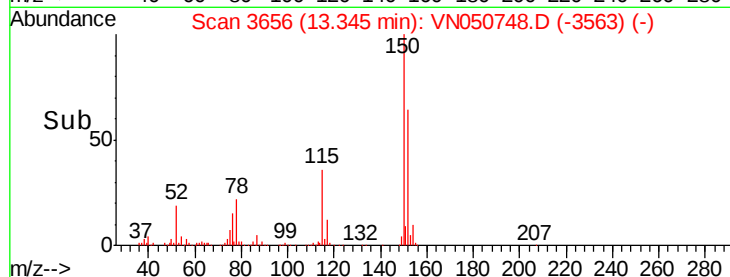
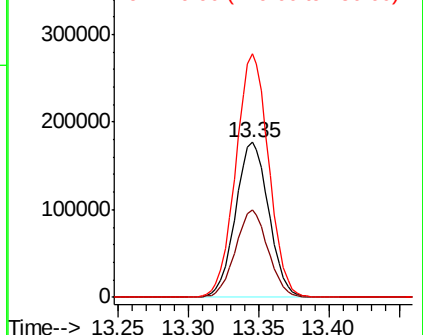
150 155.8 0.0 347.8



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: 12.40 min Scan# 3362

Delta R.T. -0.10 min

Lab File: VN050748.D

Acq: 18 Aug 2018 3:44

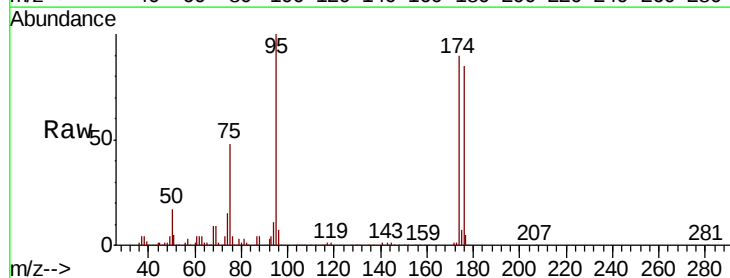
Tgt Ion: 83 Resp: 142

Ion Ratio Lower Upper

83 100

131 343.7 5.3 15.9#

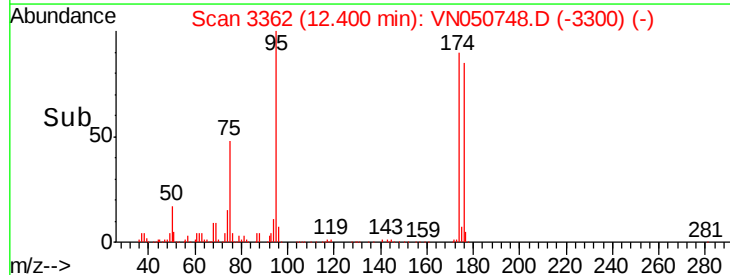
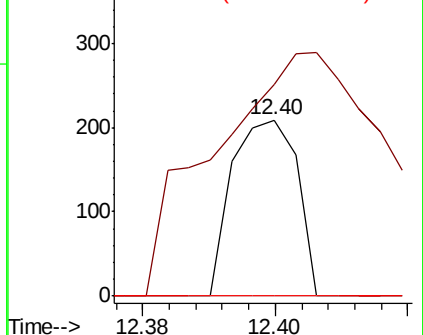
85 0.0 32.1 96.5#

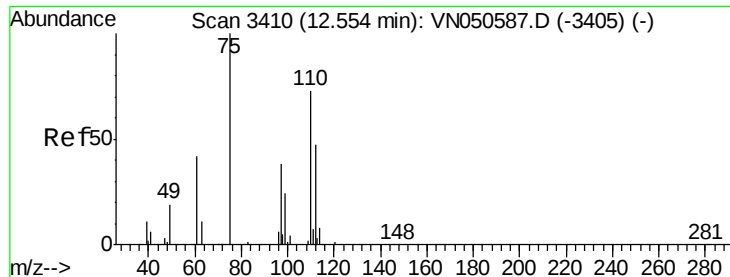


Abundance Ion 82.90 (82.60 to 83.60): VNO

Ion 130.80 (130.50 to 131.50): V

Ion 84.90 (84.60 to 85.60): VNO





#76

1,2,3-Trichloropropane

Concen: 36.31 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. -0.15 min

Lab File: VN050748.D

Acq: 18 Aug 2018 3:44

Instrument :

MSVOA_N

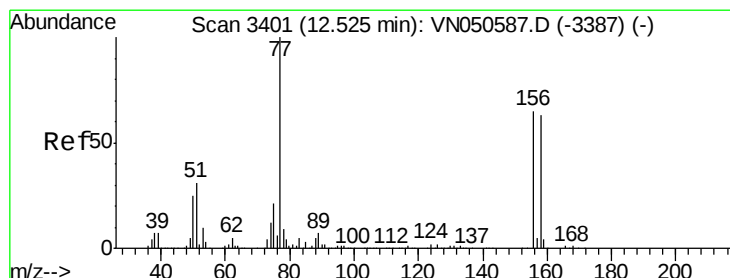
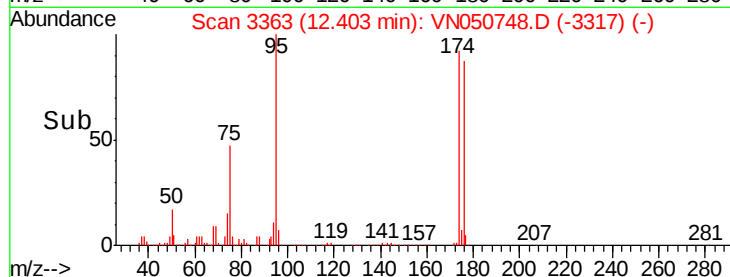
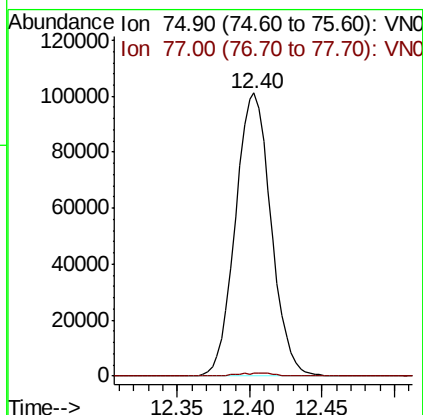
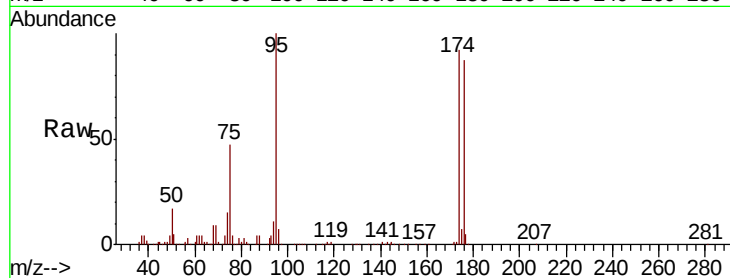
ClientSampled :

Tot Ion: 75 Resp: 172637

Ion Ratio Lower Upper

75 100

77 1.1 0.0 0.0#



#77

Bromobenzene

Concen: 0.23 ug/l

RT: 12.54 min Scan# 3406

Delta R.T. 0.02 min

Lab File: VN050748.D

Acq: 18 Aug 2018 3:44

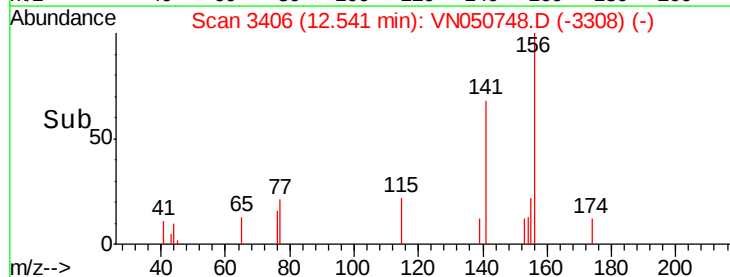
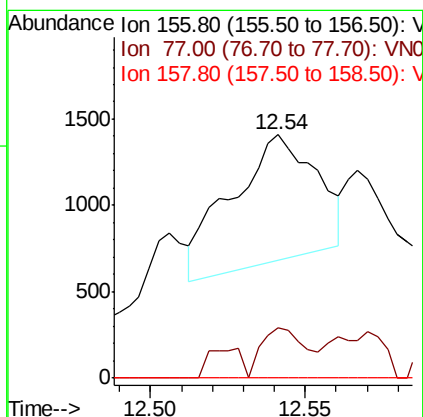
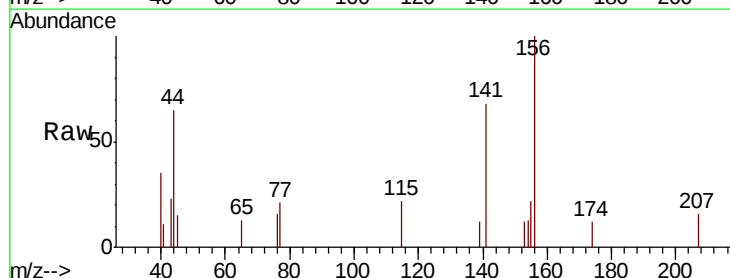
Tgt Ion: 156 Resp: 1409

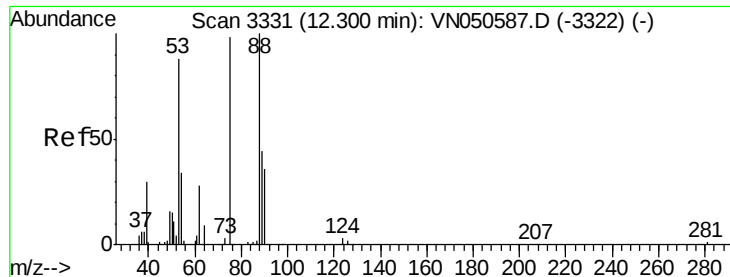
Ion Ratio Lower Upper

156 100

77 20.9 89.0 267.1#

158 0.0 48.5 145.6#

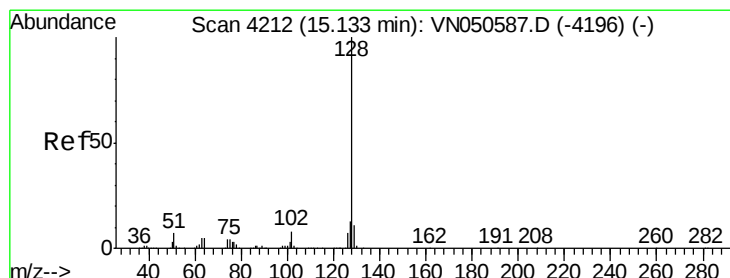
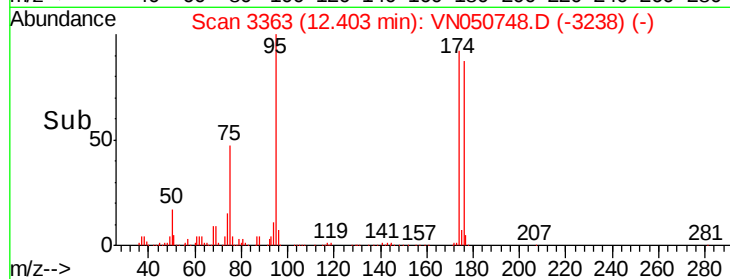
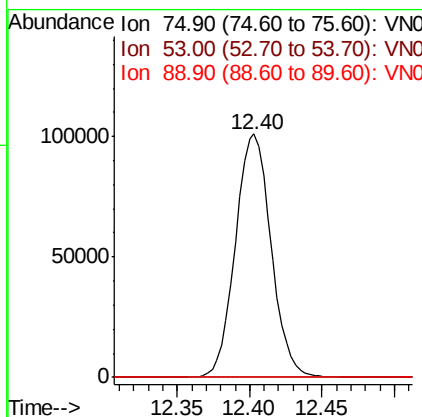
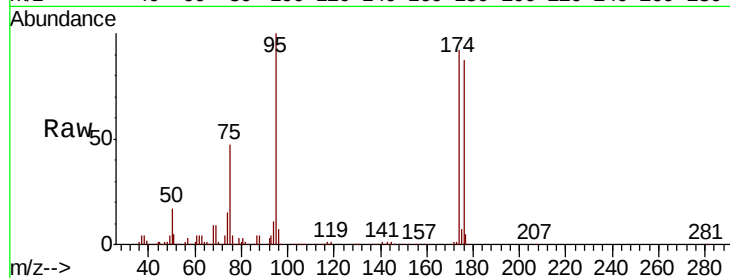




#81
 trans-1,4-Dichloro-2-butene
 Concen: 131.43 ug/l
 RT: 12.40 min Scan# 3363
 Delta R.T. 0.10 min
 Lab File: VN050748.D
 Acq: 18 Aug 2018 3:44

Instrument :
 MSVOA_N
 ClientSampled :

Tot Ion: 75 Resp: 172637
 Ion Ratio Lower Upper
 75 100
 53 0.1 72.2 108.2#
 89 0.0 36.3 54.5#



#95
 Naphthalene
 Concen: 4.71 ug/l
 RT: 15.14 min Scan# 4213
 Delta R.T. 0.00 min
 Lab File: VN050748.D
 Acq: 18 Aug 2018 3:44

Tgt Ion: 128 Resp: 10323
 Ion Ratio Lower Upper
 128 100
 127 17.2 10.3 15.5#
 129 10.6 8.5 12.7

