

Data File : VN050701.D
Acq On : 16 Aug 2018 15:06
Operator : MD\SY
Sample : PB112098ZHE#05
Misc : 5.00mL/MSVOA_N/WATER
ALS Vial : 14 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
PB112098ZHE#05

Quant Time: Aug 17 03:03:26 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	621456	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1053360	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	905034	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	321771	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.03	65	430760	54.99	ug/l	0.00
Spiked Amount	50.000		Recovery	=	109.98%	
35) Dibromofluoromethane	7.59	113	401323	47.72	ug/l	0.00
Spiked Amount	50.000		Recovery	=	95.44%	
50) Toluene-d8	10.09	98	1422652	44.95	ug/l	0.00
Spiked Amount	50.000		Recovery	=	89.90%	
62) 4-Bromofluorobenzene	12.40	95	393150	37.60	ug/l	0.00
Spiked Amount	50.000		Recovery	=	75.20%	

Target Compounds

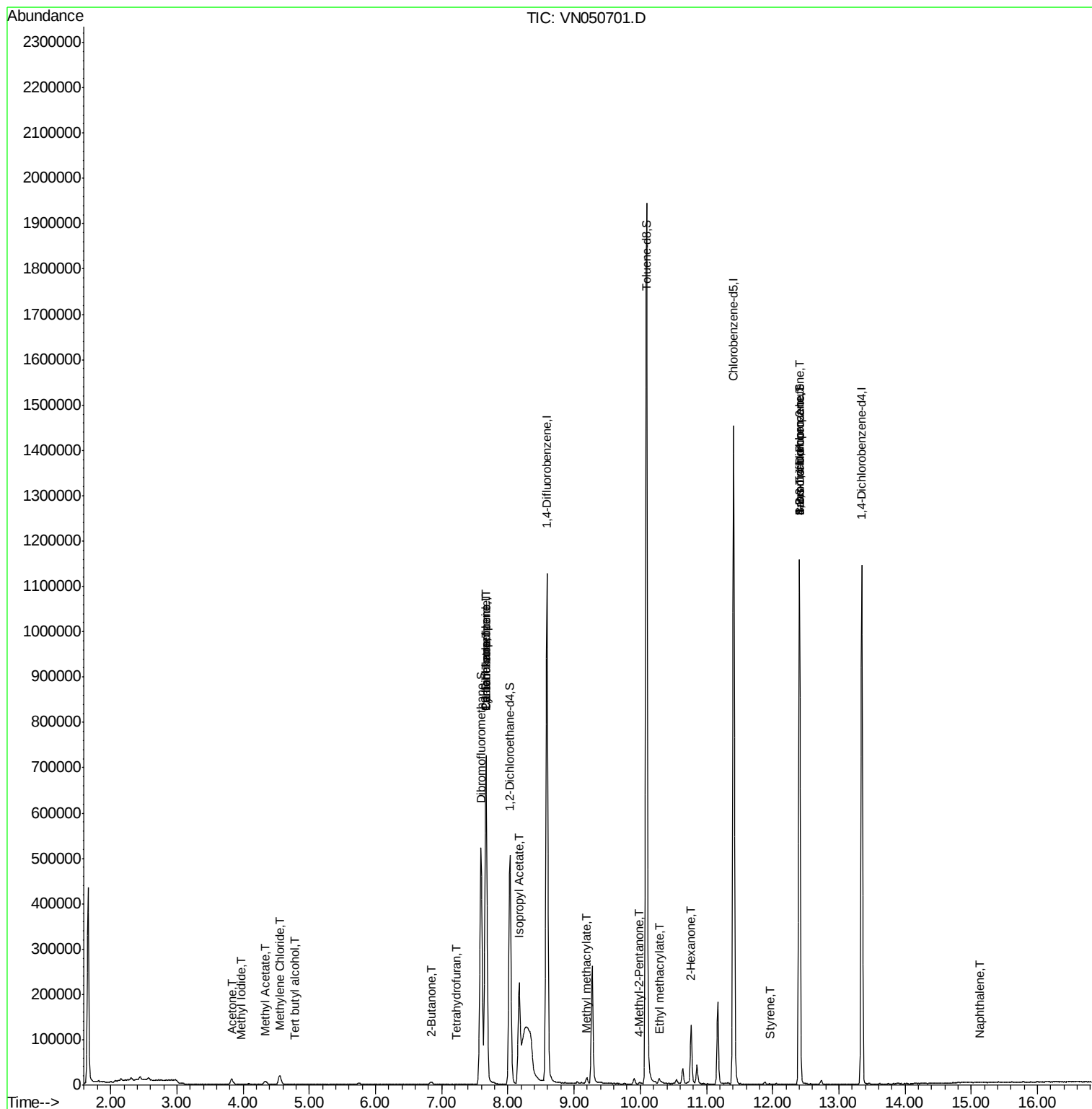
						Qvalue
3) Chloromethane	2.06	50	2182	Below Cal		97
5) Bromomethane	2.56	94	2439	Below Cal	#	79
6) Chloroethane	2.71	64	67	Below Cal	#	43
10) Methyl Iodide	3.97	142	549	7.039	ug/l #	56
11) Tert butyl alcohol	4.78	59	131	0.306	ug/l #	72
16) Acetone	3.83	43	21356	9.524	ug/l	98
18) Methyl Acetate	4.34	43	15230	1.809	ug/l #	72
20) Methylene Chloride	4.55	84	15848	0.879	ug/l	94
25) 2-Butanone	6.85	43	3244	1.010	ug/l	97
29) Tetrahydrofuran	7.22	42	349	0.208	ug/l #	33
31) Cyclohexane	7.67	56	11270	0.607	ug/l #	1
36) 1,1-Dichloropropene	7.67	75	43651	3.723	ug/l #	49
38) Carbon Tetrachloride	7.67	117	55720	4.581	ug/l #	17
43) Isopropyl Acetate	8.17	43	274183	22.699	ug/l	97
48) Methyl methacrylate	9.18	41	6702	1.103	ug/l #	21
51) 4-Methyl-2-Pentanone	9.99	43	2977	0.364	ug/l	87
56) Ethyl methacrylate	10.28	69	177	1.922	ug/l #	1
59) 2-Hexanone	10.77	43	18031	3.420	ug/l #	57
70) Styrene	11.97	104	116	0.945	ug/l #	26
71) Bromoform	12.40	173	2577	0.460	ug/l #	1
75) 1,1,2,2-Tetrachloroethane	12.40	83	105	Below Cal	#	1
76) 1,2,3-Trichloropropane	12.40	75	185811	35.443	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	185811	128.382	ug/l #	13
95) Naphthalene	15.13	128	124	3.870	ug/l #	69

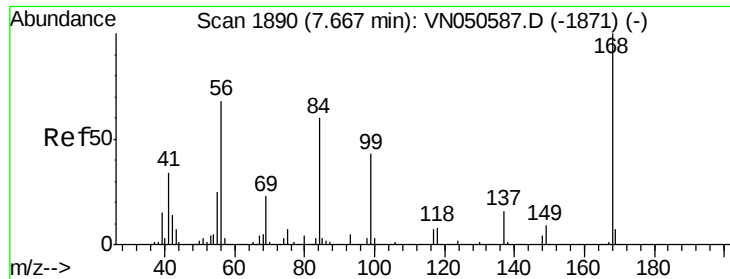
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1891

Delta R.T. 0.00 min

Lab File: VN050701.D

Acq: 16 Aug 2018 15:06

Instrument :

MSVOA_N

ClientSampleId :

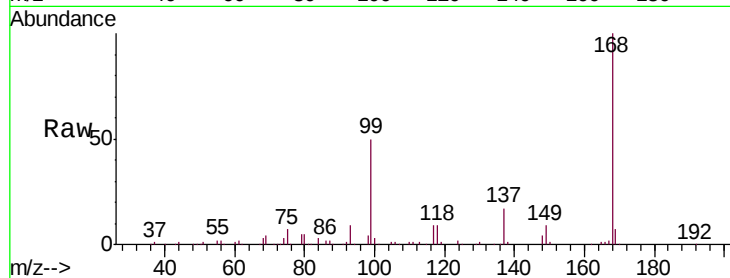
PB112098ZHE#05

Tgt Ion:168 Resp: 621456

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

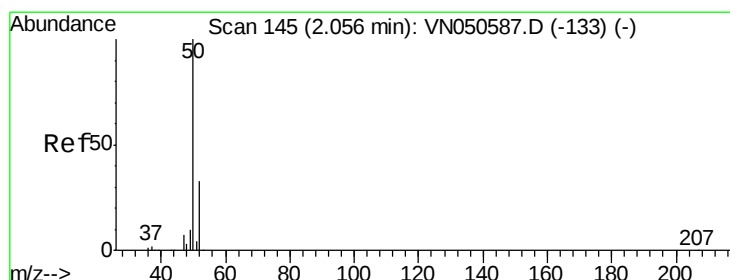
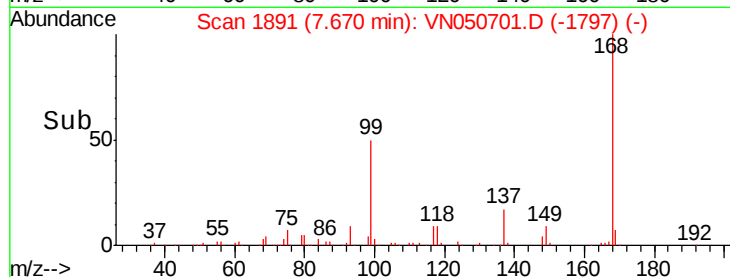
150000

100000

50000

0

Time-->



#3

Chloromethane

Concen: Below Cal

RT: 2.06 min Scan# 145

Delta R.T. 0.00 min

Lab File: VN050701.D

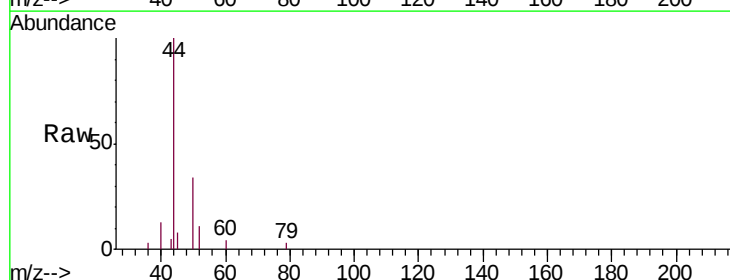
Acq: 16 Aug 2018 15:06

Tgt Ion: 50 Resp: 2182

Ion Ratio Lower Upper

50 100

52 31.0 26.0 39.0



Abundance Ion 49.90 (49.60 to 50.60): VN050587.D (-133) (-)

Ion 51.90 (51.60 to 52.60): VN050587.D (-133) (-)

2.06

2000

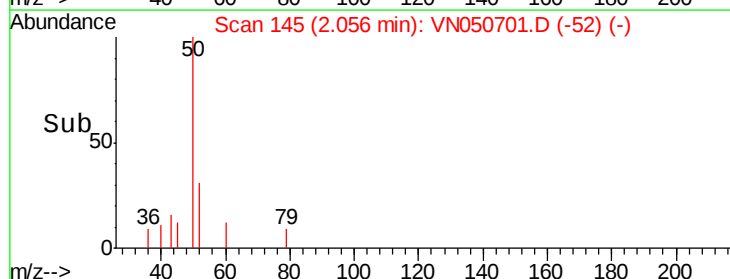
1500

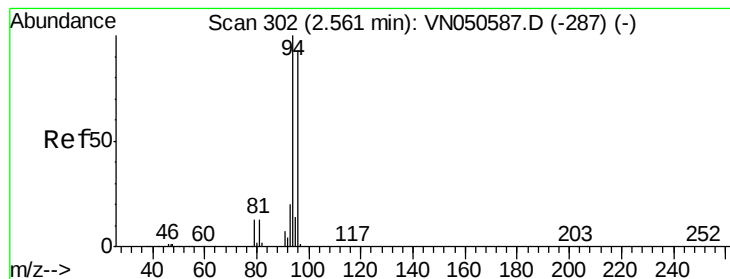
1000

500

0

Time-->





#5

Bromomethane

Concen: Below Cal

RT: 2.56 min Scan# 303

Delta R.T. 0.00 min

Lab File: VN050701.D

Acq: 16 Aug 2018 15:06

Instrument :

MSVOA_N

ClientSampleId :

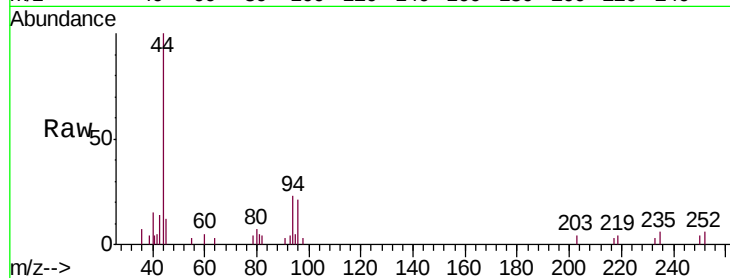
PB112098ZHE#05

Tgt Ion: 94 Resp: 2439

Ion Ratio Lower Upper

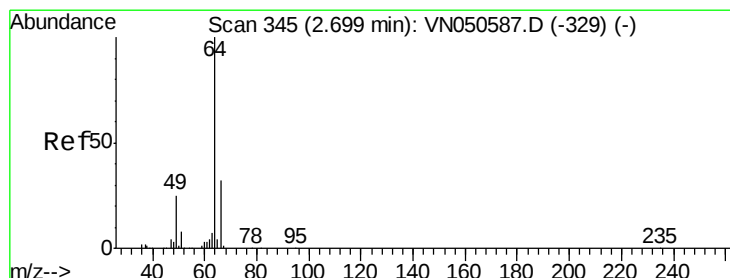
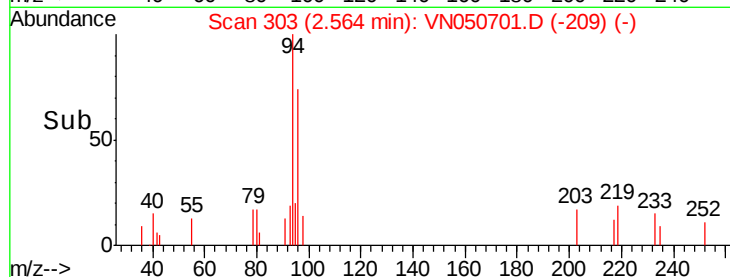
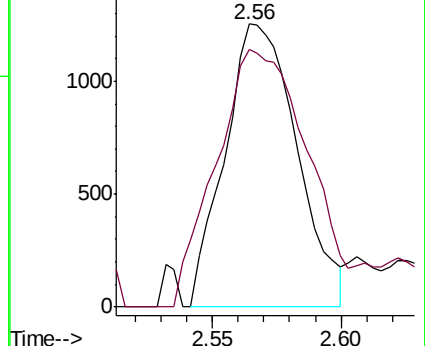
94 100

96 72.9 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: 2.71 min Scan# 347

Delta R.T. 0.01 min

Lab File: VN050701.D

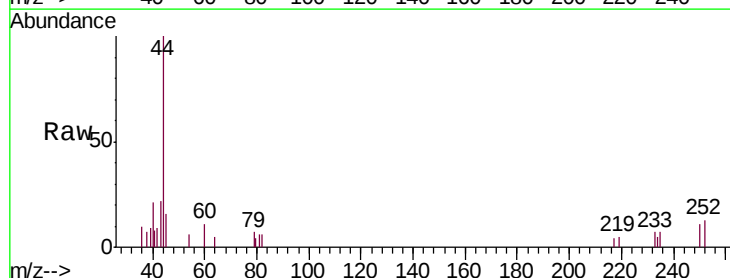
Acq: 16 Aug 2018 15:06

Tgt Ion: 64 Resp: 67

Ion Ratio Lower Upper

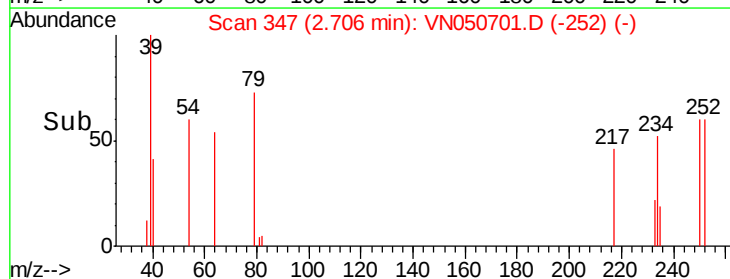
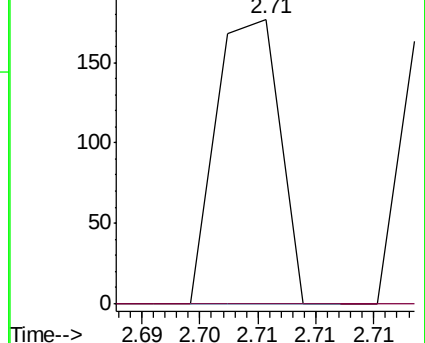
64 100

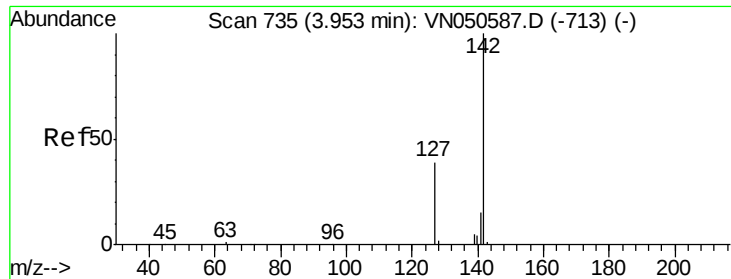
66 0.0 25.7 38.5#



Abundance Ion 63.90 (63.60 to 64.60): VN0

Ion 65.90 (65.60 to 66.60): VN0

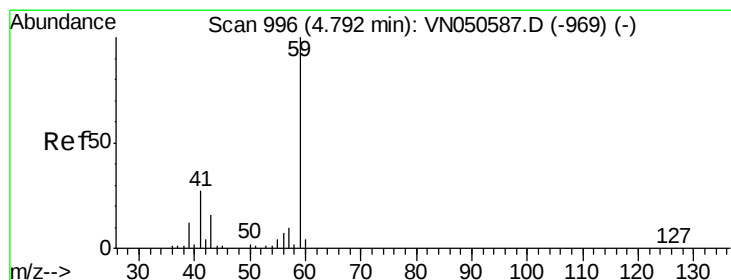
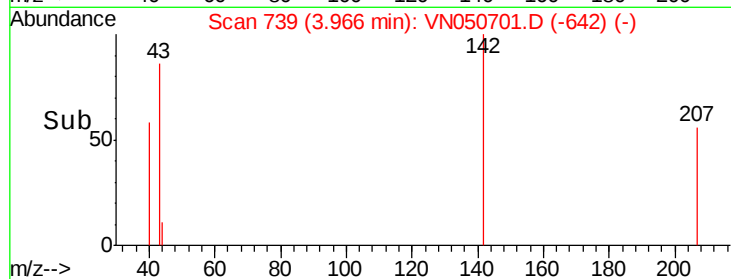
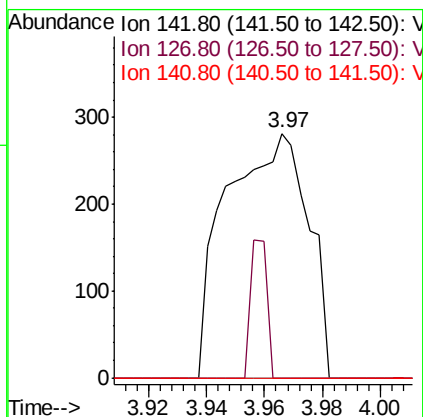
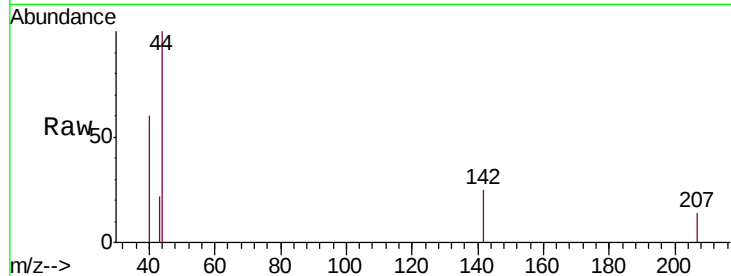




#10
Methyl Iodide
Concen: 7.039 ug/l
RT: 3.97 min Scan# 739
Delta R.T. 0.01 min
Lab File: VN050701.D
Acq: 16 Aug 2018 15:06

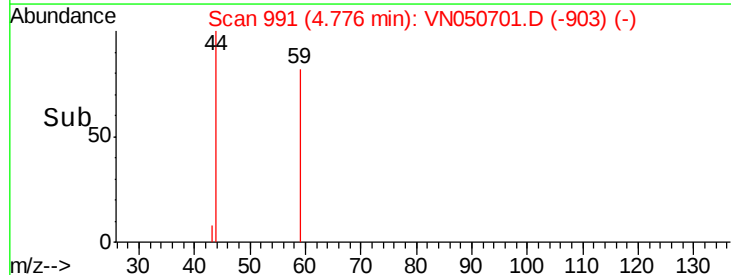
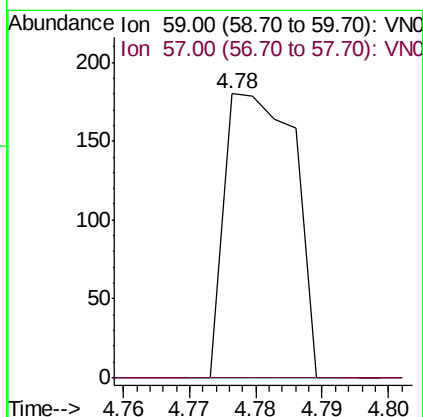
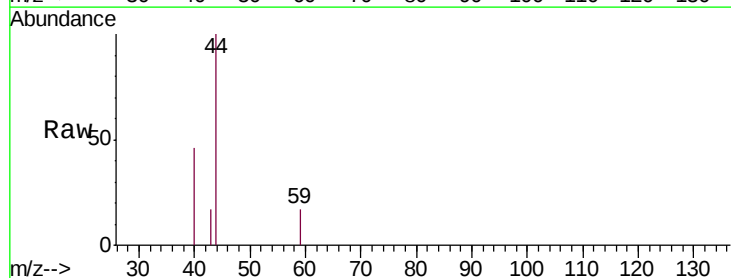
Instrument :
MSVOA_N
ClientSampleId :
PB112098ZHE#05

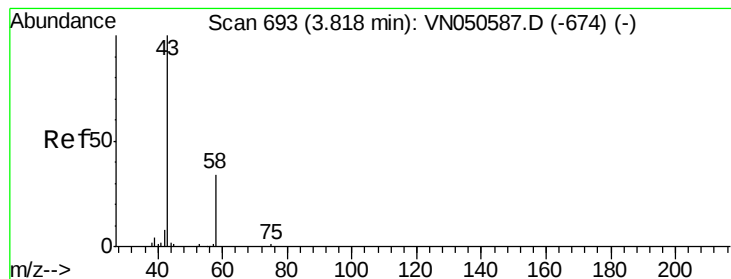
Tgt Ion: 142 Resp: 549
Ion Ratio Lower Upper
142 100
127 11.1 32.6 49.0#
141 0.0 11.5 17.3#



#11
Tert butyl alcohol
Concen: 0.306 ug/l
RT: 4.78 min Scan# 991
Delta R.T. -0.02 min
Lab File: VN050701.D
Acq: 16 Aug 2018 15:06

Tgt Ion: 59 Resp: 131
Ion Ratio Lower Upper
59 100
57 0.0 8.4 12.6#





#16

Acetone

Concen: 9.524 ug/l

RT: 3.83 min Scan# 696

Delta R.T. 0.01 min

Lab File: VN050701.D

Acq: 16 Aug 2018 15:06

Instrument :

MSVOA_N

ClientSampleId :

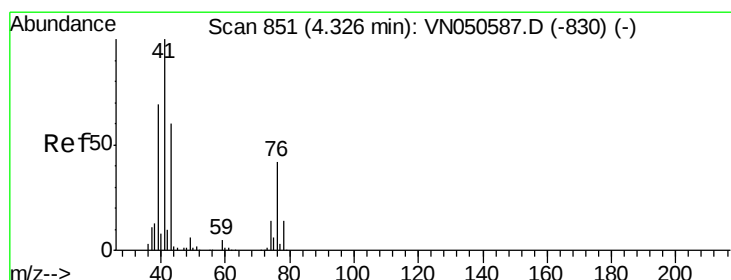
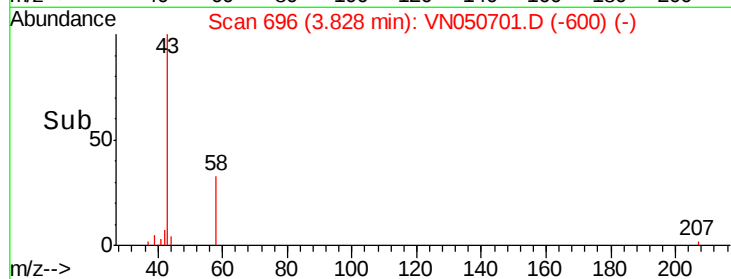
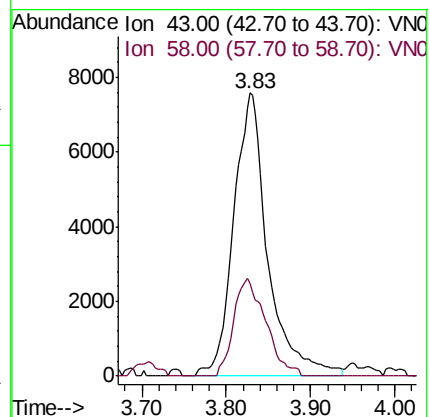
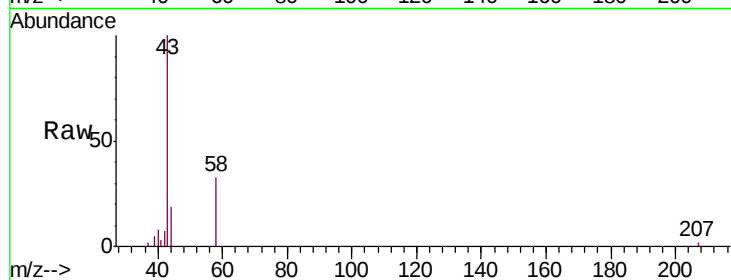
PB112098ZHE#05

Tgt Ion: 43 Resp: 21356

Ion Ratio Lower Upper

43 100

58 32.9 27.1 40.7



#18

Methyl Acetate

Concen: 1.809 ug/l

RT: 4.34 min Scan# 855

Delta R.T. 0.01 min

Lab File: VN050701.D

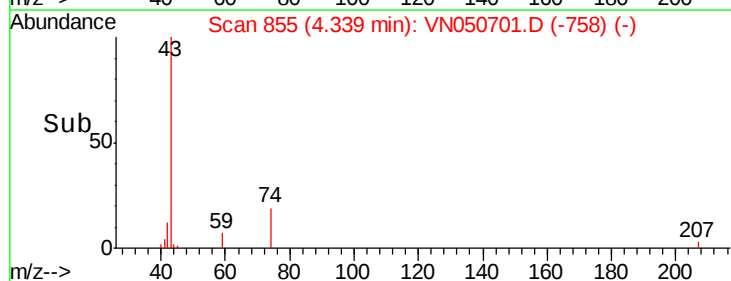
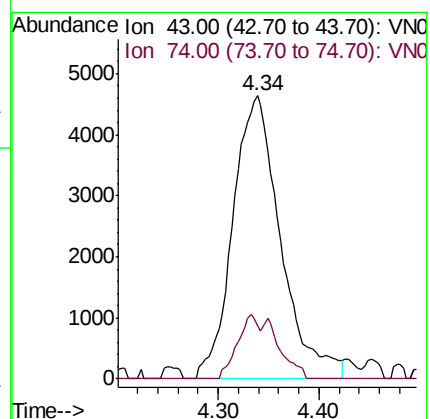
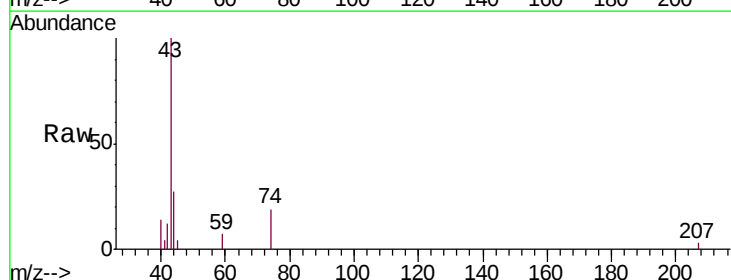
Acq: 16 Aug 2018 15:06

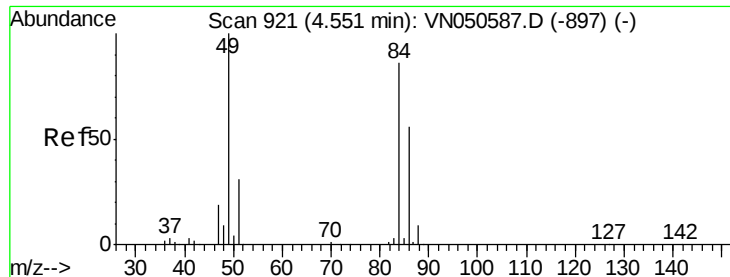
Tgt Ion: 43 Resp: 15230

Ion Ratio Lower Upper

43 100

74 10.6 19.7 29.5#

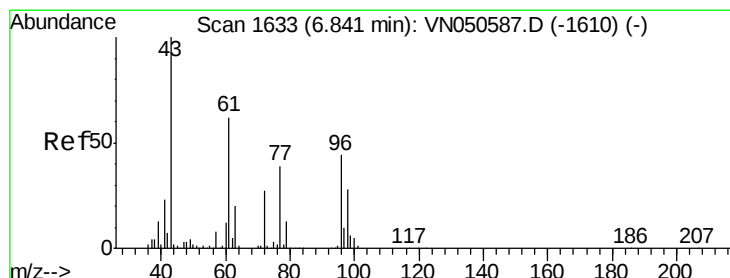
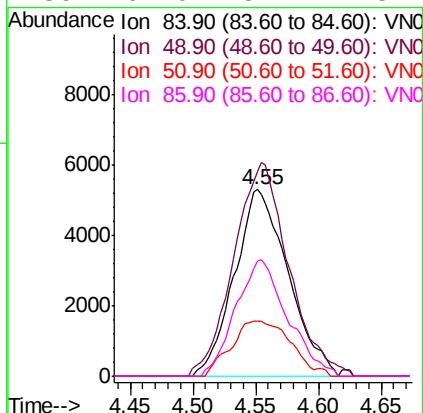
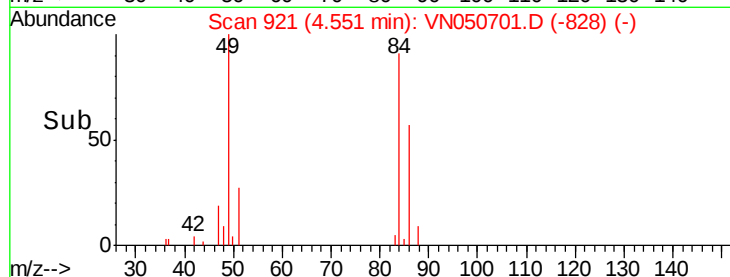
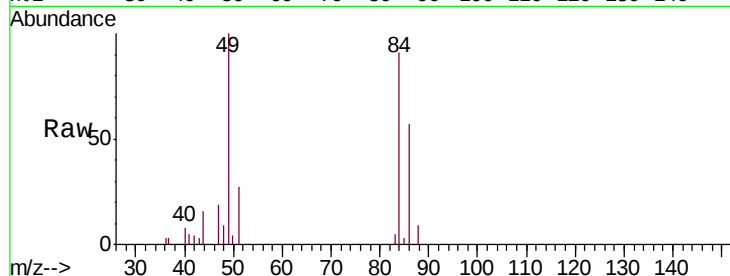




#20
Methylene Chloride
Concen: 0.879 ug/l
RT: 4.55 min Scan# 921
Delta R.T. 0.00 min
Lab File: VN050701.D
Acq: 16 Aug 2018 15:06

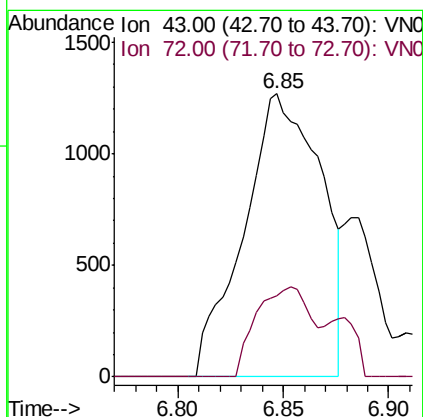
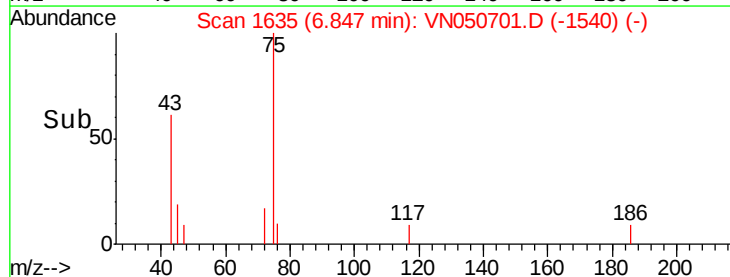
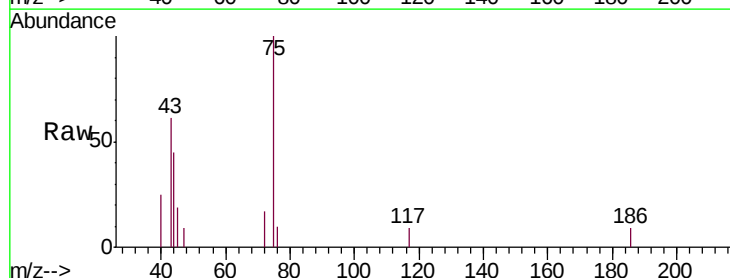
Instrument :
MSVOA_N
ClientSampleId :
PB112098ZHE#05

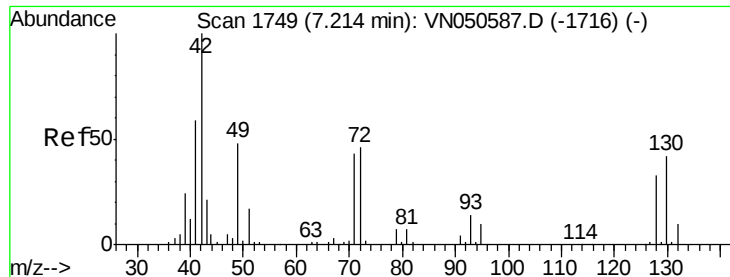
Tgt Ion: 84 Resp: 15848
Ion Ratio Lower Upper
84 100
49 109.5 92.6 138.8
51 29.7 28.6 43.0
86 62.0 52.2 78.2



#25
2-Butanone
Concen: 1.010 ug/l
RT: 6.85 min Scan# 1635
Delta R.T. 0.01 min
Lab File: VN050701.D
Acq: 16 Aug 2018 15:06

Tgt Ion: 43 Resp: 3244
Ion Ratio Lower Upper
43 100
72 28.6 21.8 32.6





#29

Tetrahydrofuran

Concen: 0.208 ug/l

RT: 7.22 min Scan# 1750

Delta R.T. 0.00 min

Lab File: VN050701.D

Acq: 16 Aug 2018 15:06

Instrument :

MSVOA_N

ClientSampleId :

PB112098ZHE#05

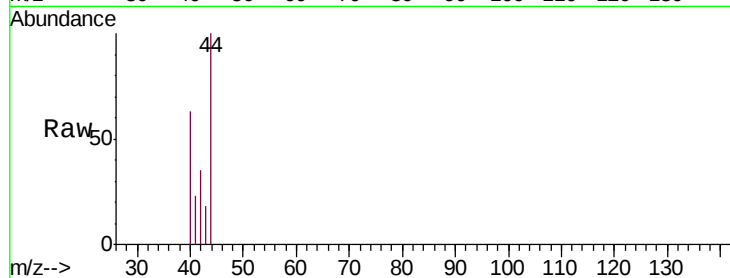
Tgt Ion: 42 Resp: 349

Ion Ratio Lower Upper

42 100

72 0.0 35.8 53.6#

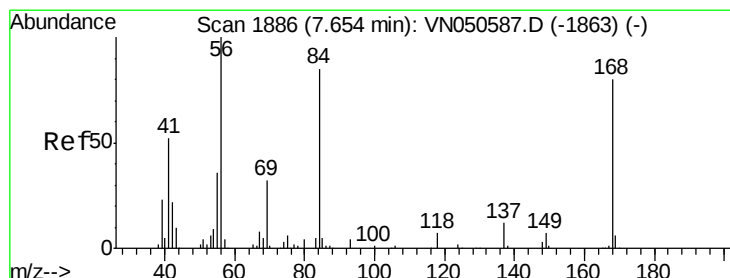
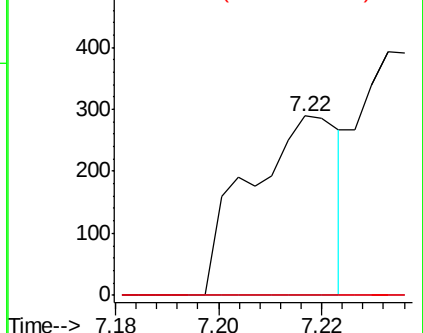
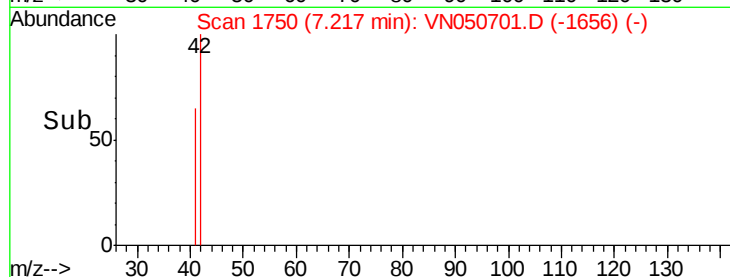
71 0.0 33.4 50.0#



Abundance Ion 42.00 (41.70 to 42.70): VN0

Ion 72.00 (71.70 to 72.70): VN0

Ion 71.00 (70.70 to 71.70): VN0



#31

Cyclohexane

Concen: 0.607 ug/l

RT: 7.67 min Scan# 1891

Delta R.T. 0.02 min

Lab File: VN050701.D

Acq: 16 Aug 2018 15:06

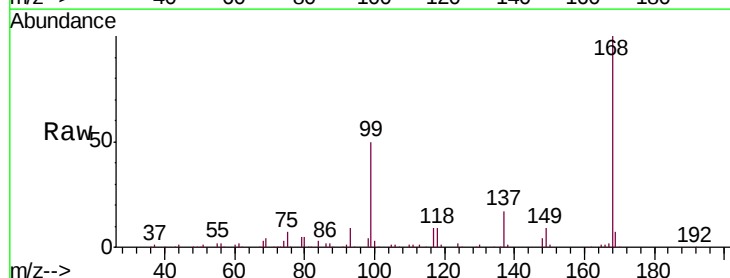
Tgt Ion: 56 Resp: 11270

Ion Ratio Lower Upper

56 100

69 205.3 25.8 38.6#

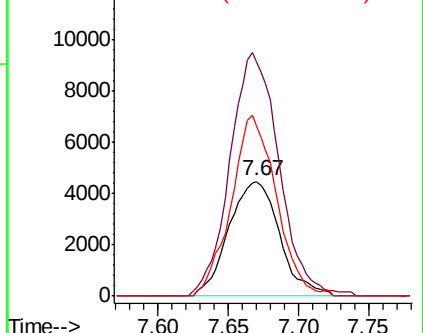
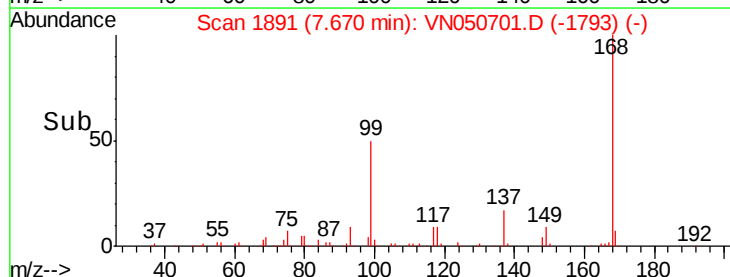
84 149.4 67.8 101.6#

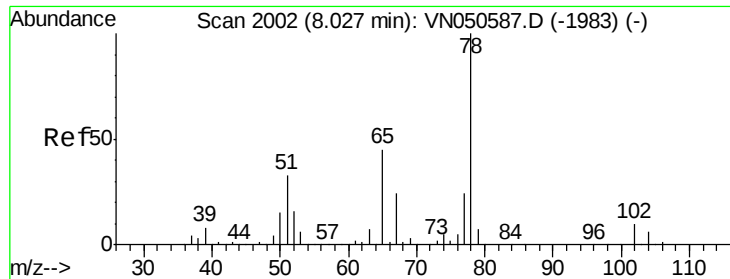


Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 84.00 (83.70 to 84.70): VN0

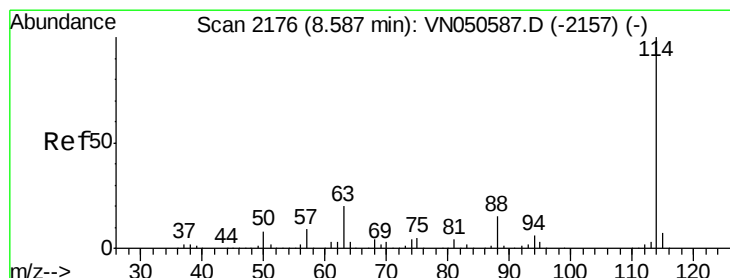
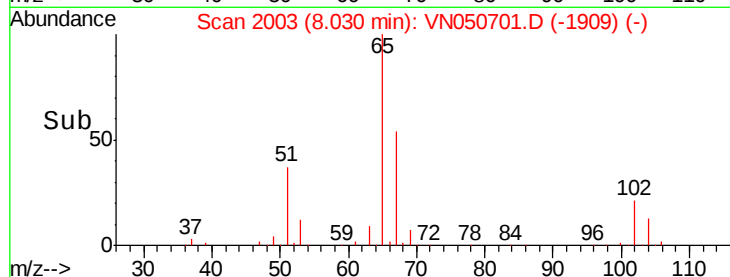
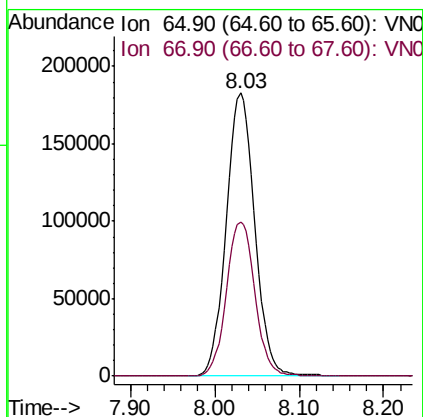
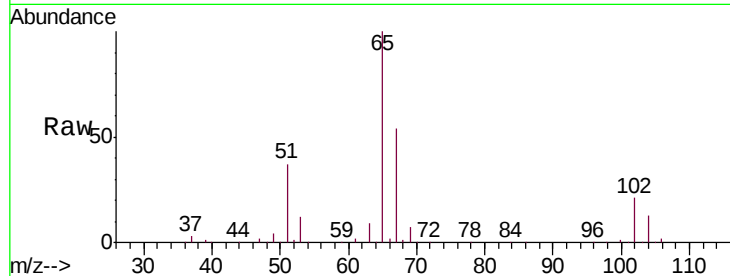




#33
 1,2-Dichloroethane-d4
 Concen: 54.990 ug/l
 RT: 8.03 min Scan# 2003
 Delta R.T. 0.00 min
 Lab File: VN050701.D
 Acq: 16 Aug 2018 15:06

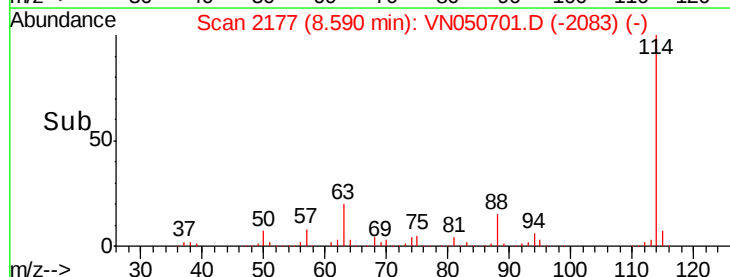
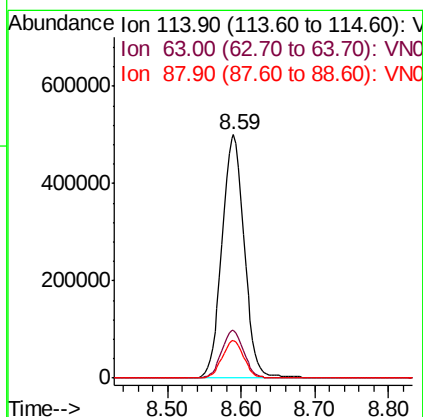
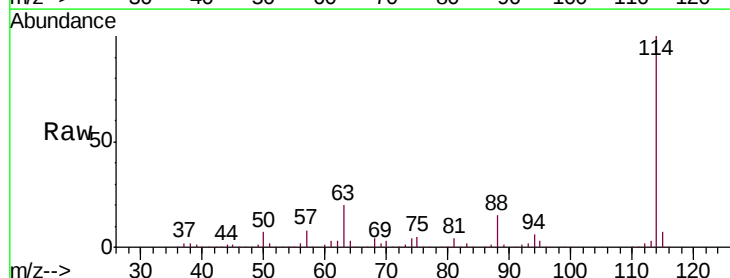
Instrument :
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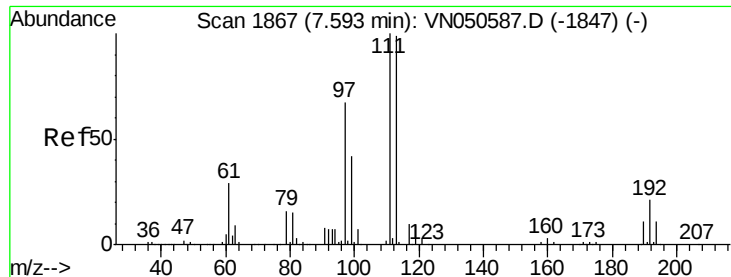
Tgt Ion: 65 Resp: 430760
 Ion Ratio Lower Upper
 65 100
 67 54.5 0.0 109.8



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2177
 Delta R.T. 0.00 min
 Lab File: VN050701.D
 Acq: 16 Aug 2018 15:06

Tgt Ion: 114 Resp: 1053360
 Ion Ratio Lower Upper
 114 100
 63 19.8 0.0 40.0
 88 15.4 0.0 30.8

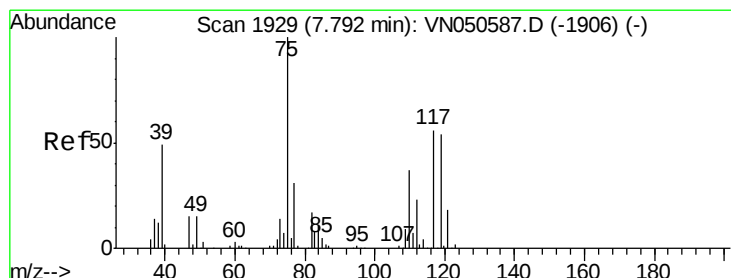
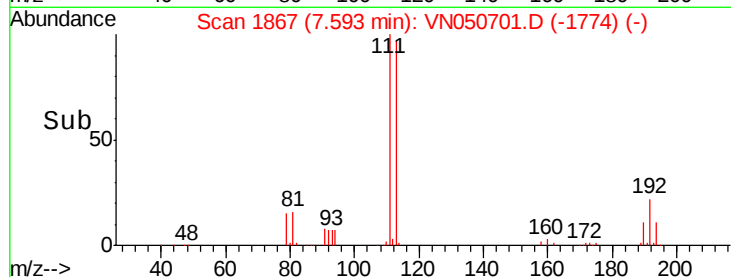
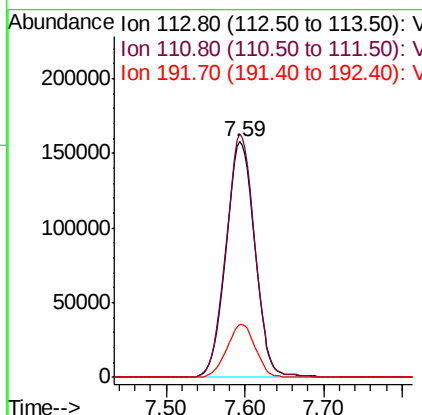
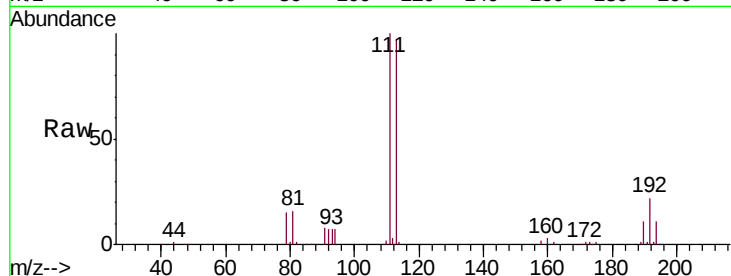




#35
 Dibromofluoromethane
 Concen: 47.722 ug/l
 RT: 7.59 min Scan# 1867
 Delta R.T. -0.00 min
 Lab File: VN050701.D
 Acq: 16 Aug 2018 15:06

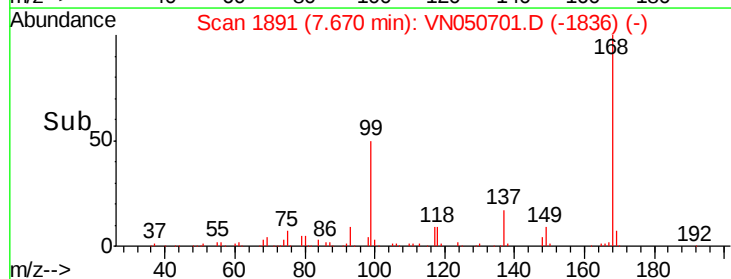
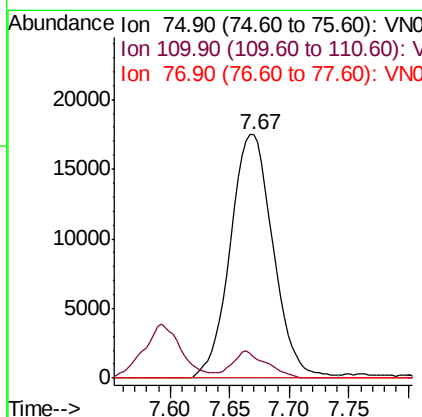
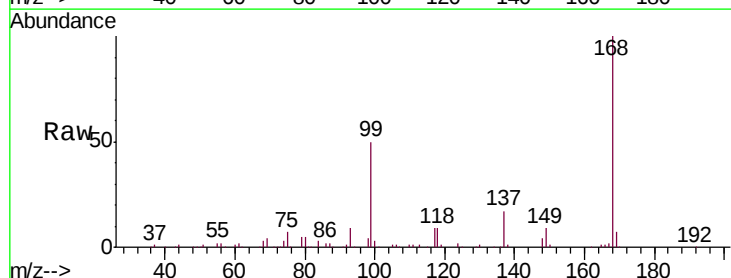
Instrument :
 MSVOA_N
 ClientSampleId :
 PB112098ZHE#05

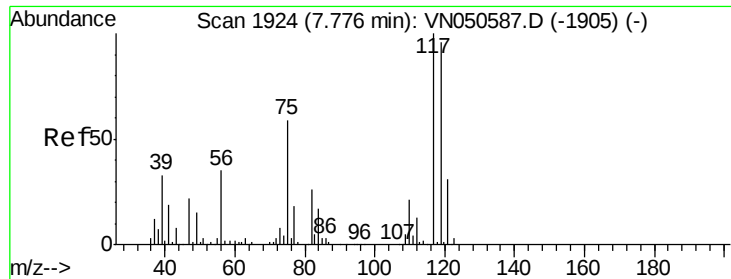
Tgt Ion	Ratio	Lower	Upper
113	100		
111	102.4	81.0	121.6
192	22.2	17.6	26.4



#36
 1,1-Dichloropropene
 Concen: 3.723 ug/l
 RT: 7.67 min Scan# 1891
 Delta R.T. -0.12 min
 Lab File: VN050701.D
 Acq: 16 Aug 2018 15:06

Tgt Ion	Ratio	Lower	Upper
75	100		
110	8.8	18.3	54.9#
77	0.0	25.0	37.4#

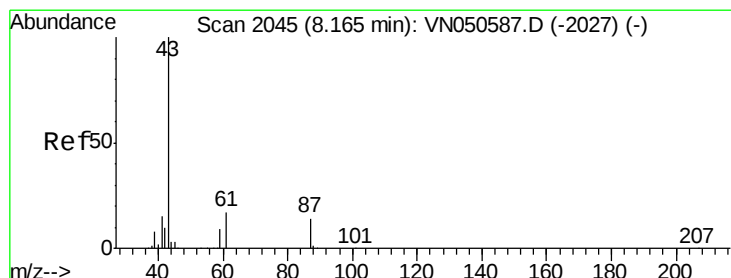
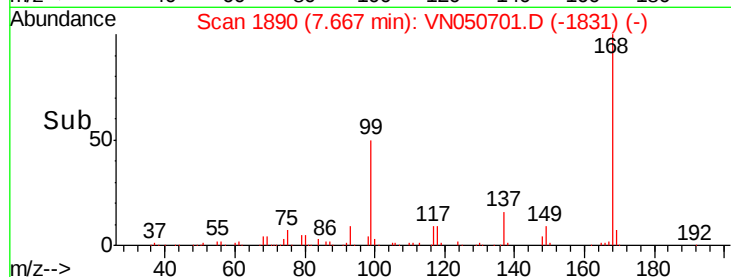
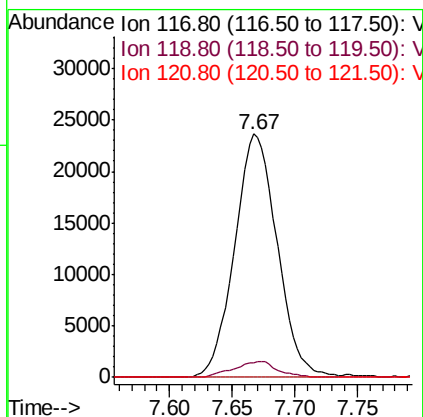
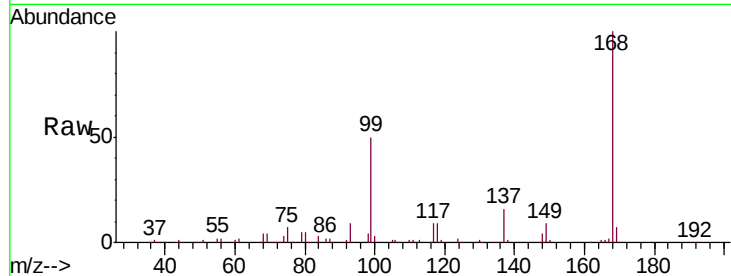




#38
Carbon Tetrachloride
Concen: 4.581 ug/l
RT: 7.67 min Scan# 1890
Delta R.T. -0.11 min
Lab File: VN050701.D
Acq: 16 Aug 2018 15:06

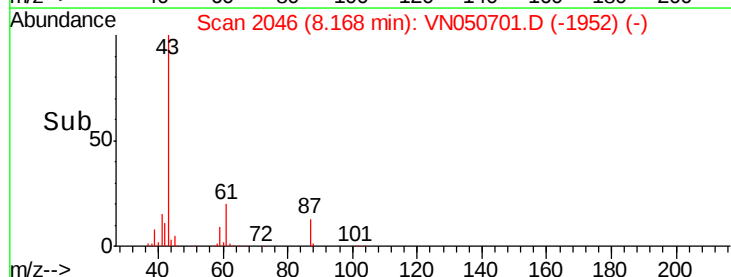
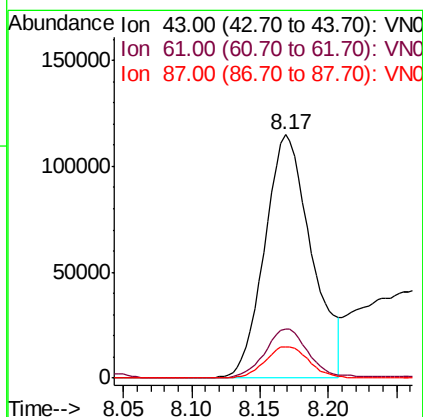
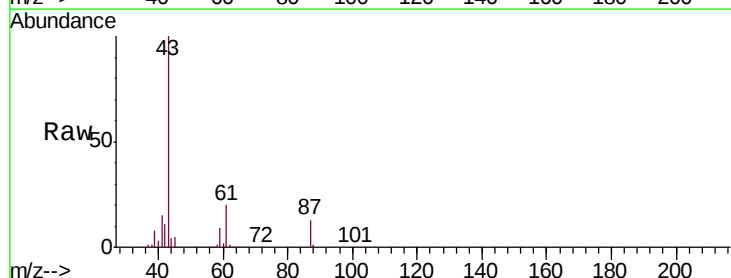
Instrument :
MSVOA_N
ClientSampleId :
PB112098ZHE#05

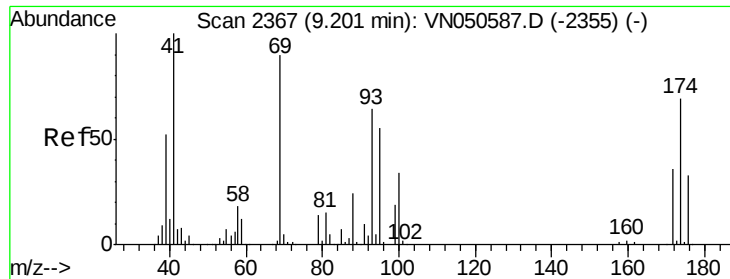
Tgt Ion: 117 Resp: 55720
Ion Ratio Lower Upper
117 100
119 6.0 76.6 115.0#
121 0.0 25.0 37.6#



#43
Isopropyl Acetate
Concen: 22.699 ug/l
RT: 8.17 min Scan# 2046
Delta R.T. 0.00 min
Lab File: VN050701.D
Acq: 16 Aug 2018 15:06

Tgt Ion: 43 Resp: 274183
Ion Ratio Lower Upper
43 100
61 19.1 16.2 24.2
87 12.1 10.9 16.3

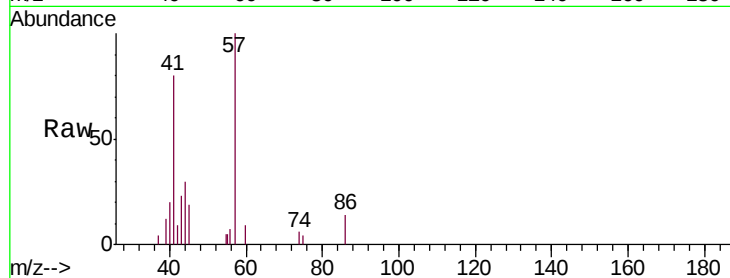




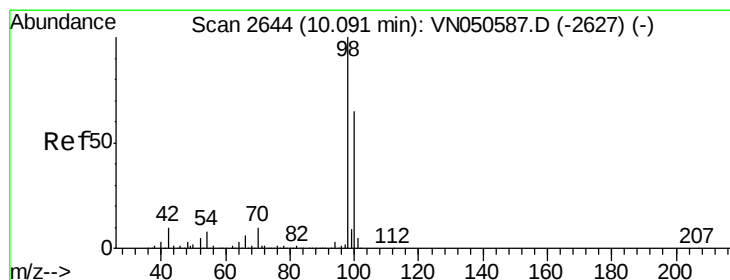
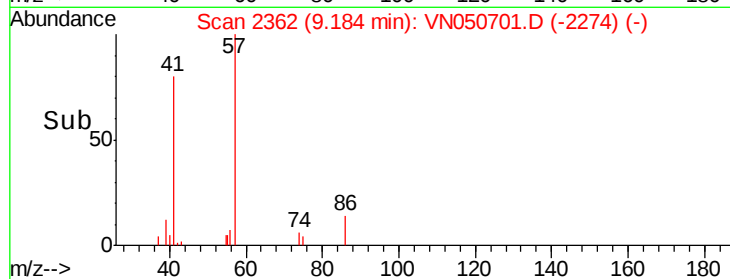
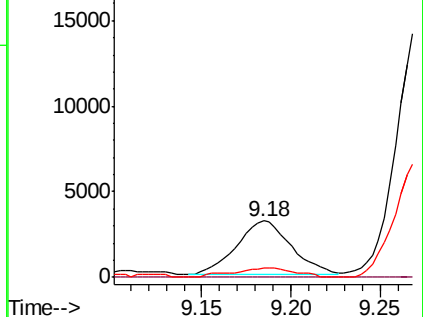
#48
Methyl methacrylate
Concen: 1.103 ug/l
RT: 9.18 min Scan# 2362
Delta R.T. -0.02 min
Lab File: VN050701.D
Acq: 16 Aug 2018 15:06

Instrument :
MSVOA_N
ClientSampleId :
PB112098ZHE#05

Tgt Ion: 41 Resp: 6702
Ion Ratio Lower Upper
41 100
69 0.0 73.4 110.0#
39 19.3 43.0 64.6#

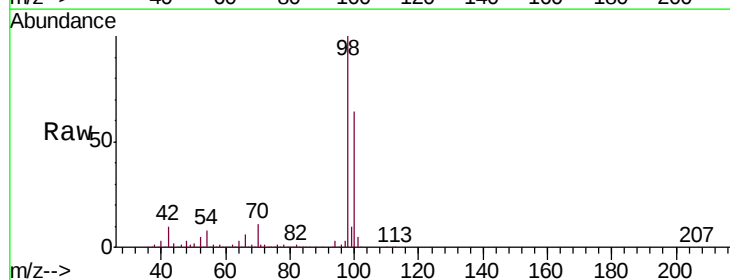


Abundance Ion 41.00 (40.70 to 41.70): VNC
Ion 69.00 (68.70 to 69.70): VNC
Ion 39.00 (38.70 to 39.70): VNC

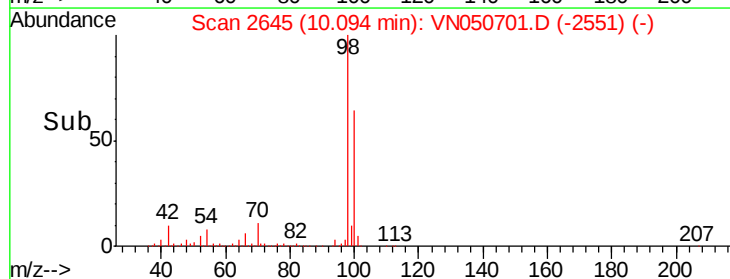
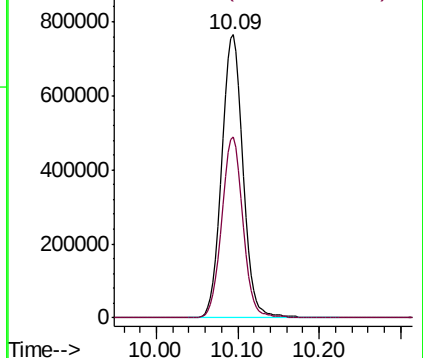


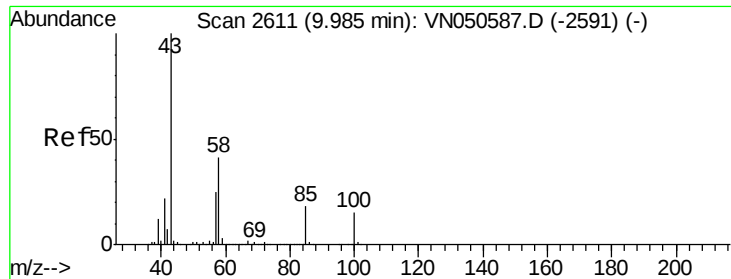
#50
Toluene-d8
Concen: 44.949 ug/l
RT: 10.09 min Scan# 2645
Delta R.T. 0.00 min
Lab File: VN050701.D
Acq: 16 Aug 2018 15:06

Tgt Ion: 98 Resp: 1422652
Ion Ratio Lower Upper
98 100
100 63.6 51.8 77.8



Abundance Ion 98.00 (97.70 to 98.70): VNC
Ion 100.00 (99.70 to 100.70): VNC

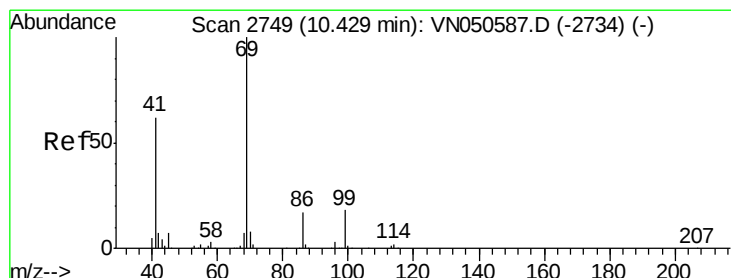
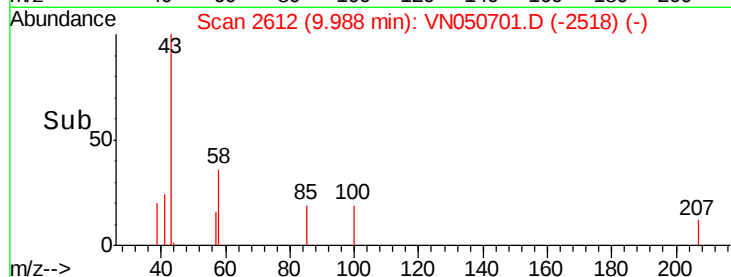
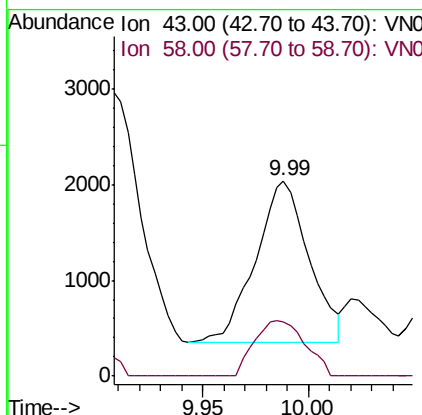
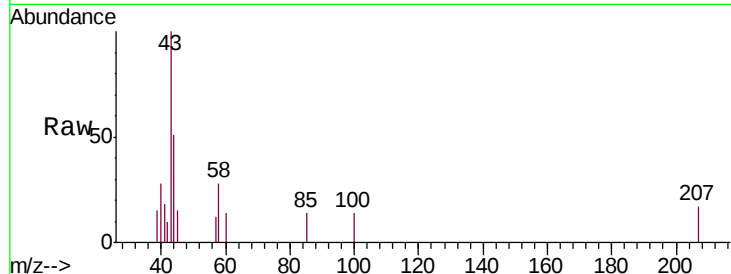




#51
 4-Methyl-2-Pentanone
 Concen: 0.364 ug/l
 RT: 9.99 min Scan# 2612
 Delta R.T. 0.00 min
 Lab File: VN050701.D
 Acq: 16 Aug 2018 15:06

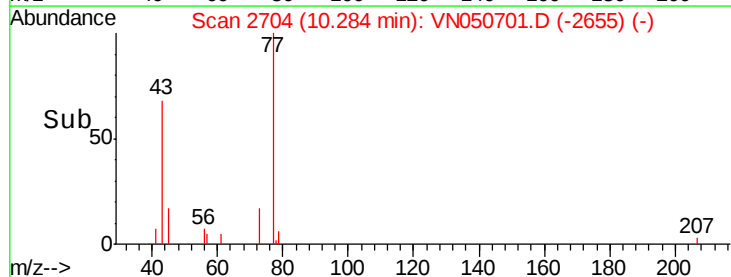
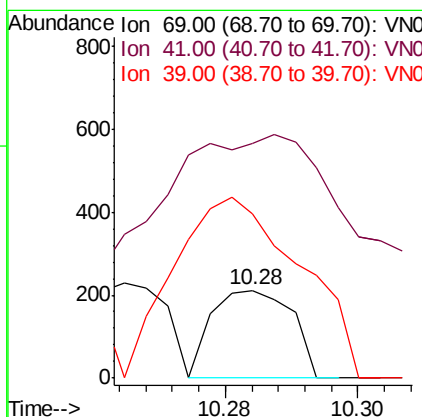
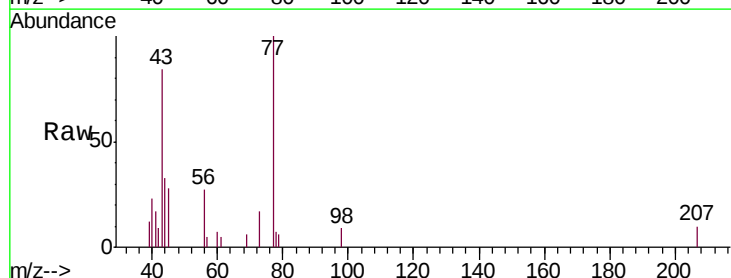
Instrument :
 MSVOA_N
 ClientSampleId :
 PB112098ZHE#05

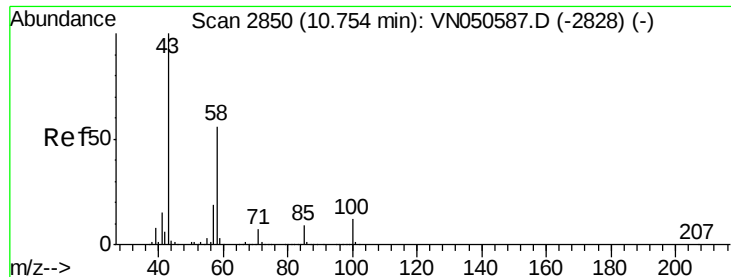
Tgt Ion: 43 Resp: 2977
 Ion Ratio Lower Upper
 43 100
 58 32.6 32.5 48.7



#56
 Ethyl methacrylate
 Concen: 1.922 ug/l
 RT: 10.28 min Scan# 2704
 Delta R.T. -0.14 min
 Lab File: VN050701.D
 Acq: 16 Aug 2018 15:06

Tgt Ion: 69 Resp: 177
 Ion Ratio Lower Upper
 69 100
 41 813.0 49.7 74.5#
 39 327.1 24.2 36.2#

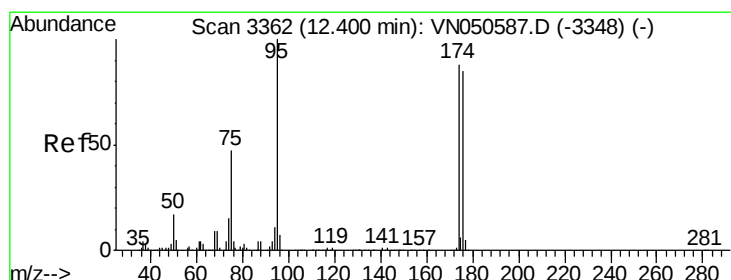
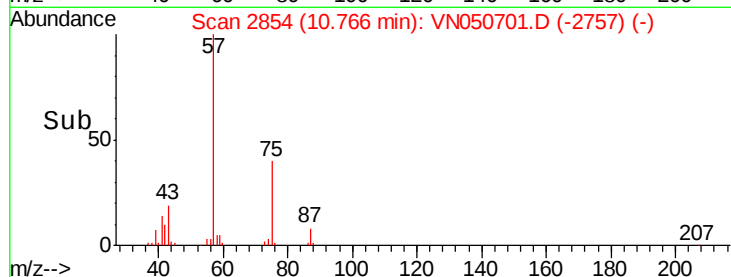
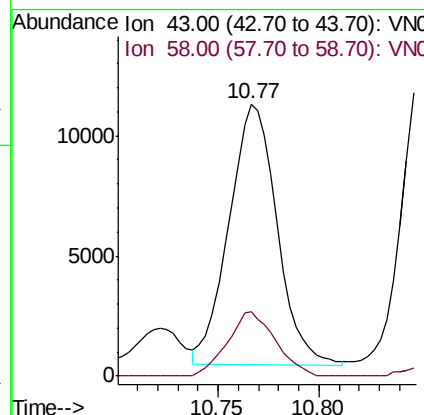
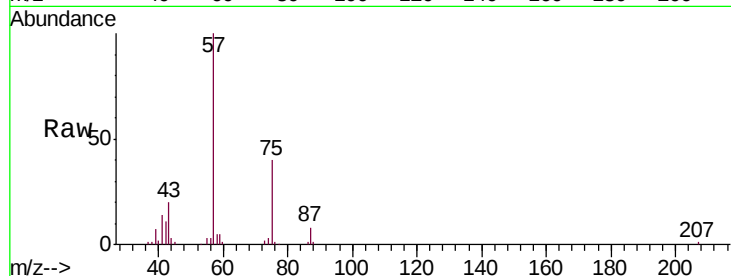




#59
2-Hexanone
Concen: 3.420 ug/l
RT: 10.77 min Scan# 2854
Delta R.T. 0.01 min
Lab File: VN050701.D
Acq: 16 Aug 2018 15:06

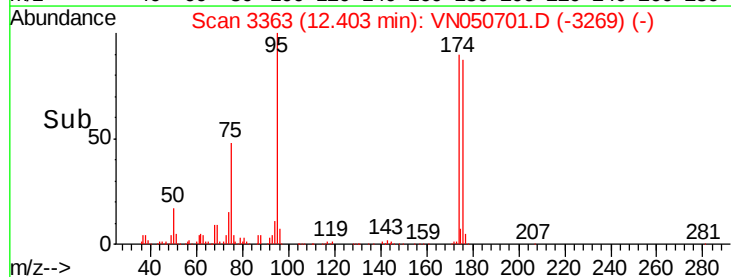
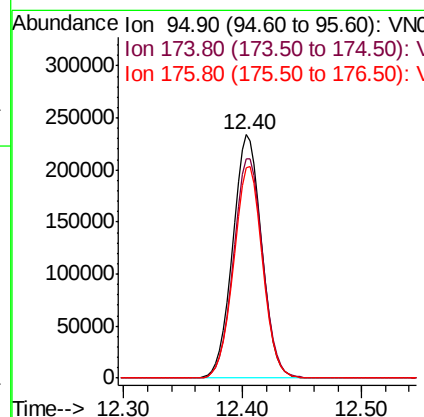
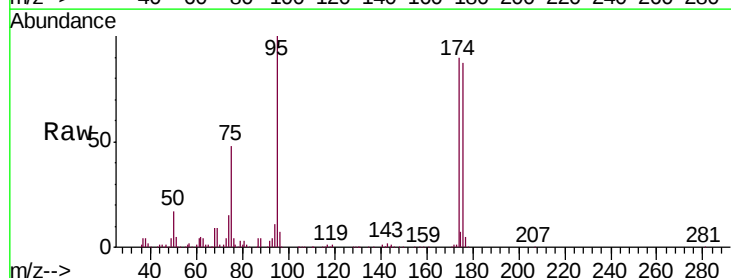
Instrument :
MSVOA_N
ClientSampleId :
PB112098ZHE#05

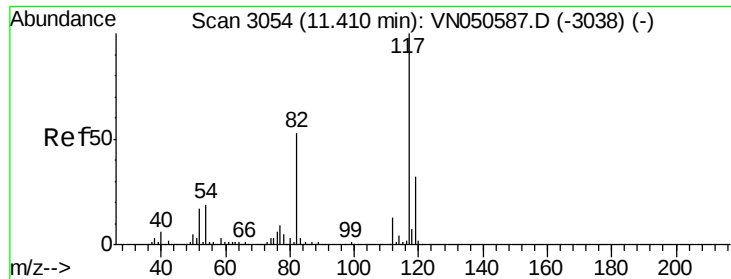
Tgt Ion: 43 Resp: 18031
Ion Ratio Lower Upper
43 100
58 24.7 28.0 84.0#



#62
4-Bromofluorobenzene
Concen: 37.601 ug/l
RT: 12.40 min Scan# 3363
Delta R.T. 0.00 min
Lab File: VN050701.D
Acq: 16 Aug 2018 15:06

Tgt Ion: 95 Resp: 393150
Ion Ratio Lower Upper
95 100
174 91.8 0.0 177.8
176 87.0 0.0 175.0

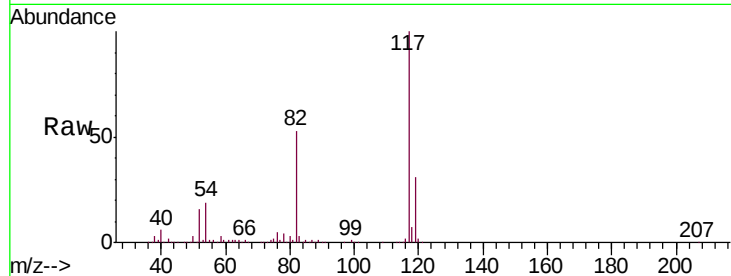




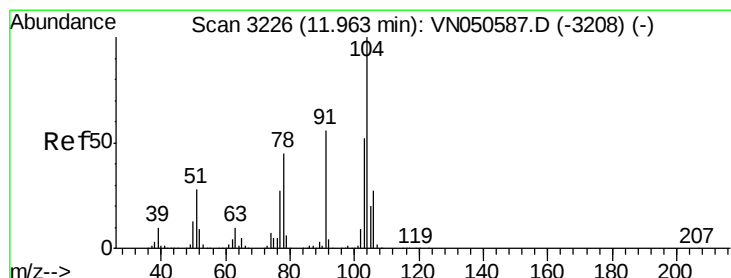
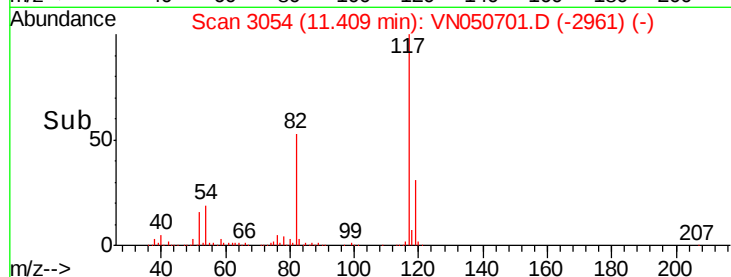
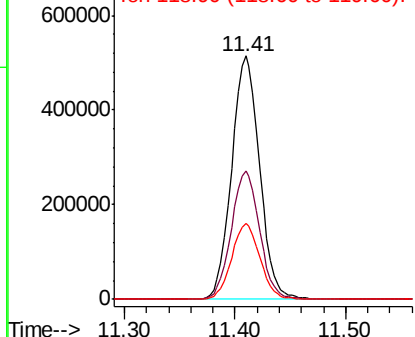
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 3054
Delta R.T. -0.00 min
Lab File: VN050701.D
Acq: 16 Aug 2018 15:06

Instrument :
MSVOA_N
ClientSampleId :
PB112098ZHE#05

Tgt Ion:117 Resp: 905034
Ion Ratio Lower Upper
117 100
82 52.7 42.4 63.6
119 31.0 25.8 38.8

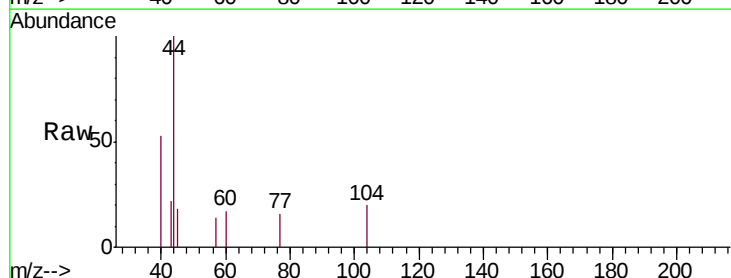


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VN
Ion 118.90 (118.60 to 119.60): V

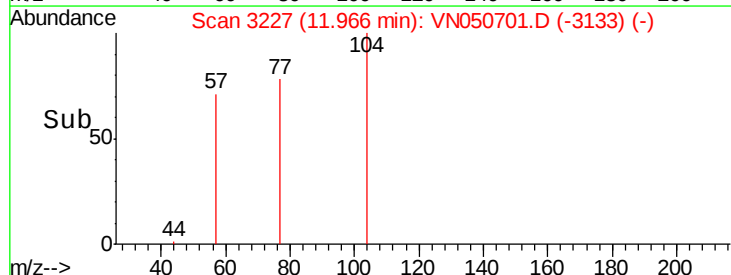
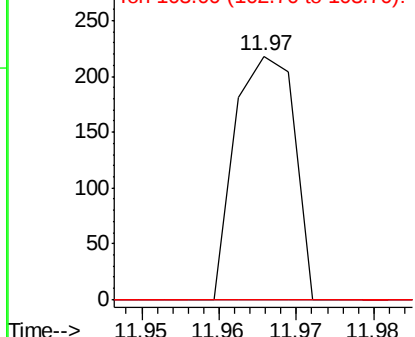


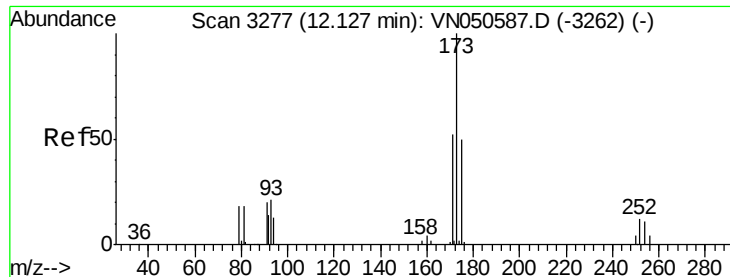
#70
Styrene
Concen: 0.945 ug/l
RT: 11.97 min Scan# 3227
Delta R.T. 0.00 min
Lab File: VN050701.D
Acq: 16 Aug 2018 15:06

Tgt Ion:104 Resp: 116
Ion Ratio Lower Upper
104 100
78 0.0 39.1 58.7#
103 0.0 44.9 67.3#



Abundance Ion 104.00 (103.70 to 104.70): V
Ion 78.00 (77.70 to 78.70): VN
Ion 103.00 (102.70 to 103.70): V





#71

Bromoform

Concen: 0.460 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. 0.28 min

Lab File: VN050701.D

Acq: 16 Aug 2018 15:06

Instrument :

MSVOA_N

ClientSampleId :

PB112098ZHE#05

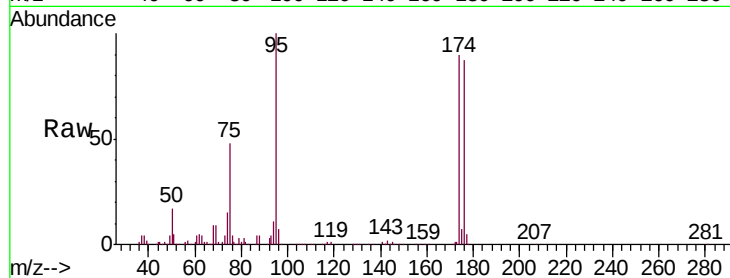
Tgt Ion:173 Resp: 2577

Ion Ratio Lower Upper

173 100

175 849.6 24.4 73.2#

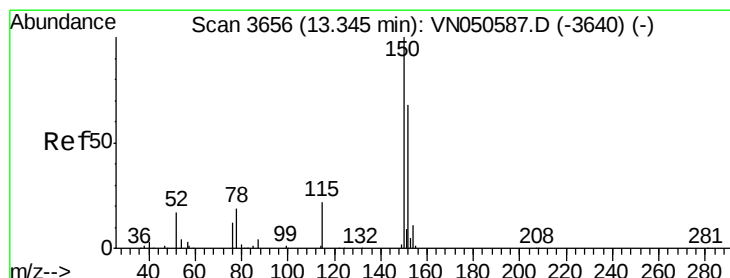
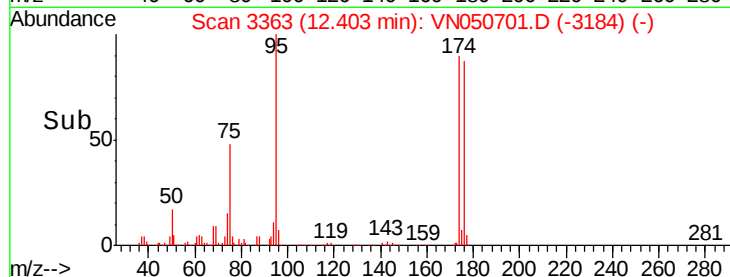
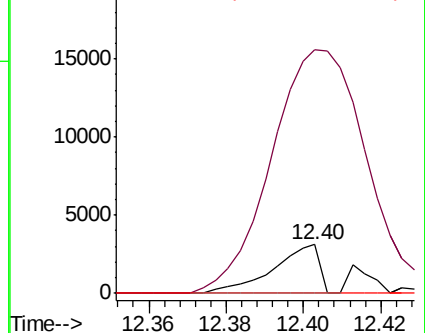
254 0.0 0.0 0.0



Abundance Ion 172.70 (172.40 to 173.40): V

Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.35 min Scan# 3656

Delta R.T. -0.00 min

Lab File: VN050701.D

Acq: 16 Aug 2018 15:06

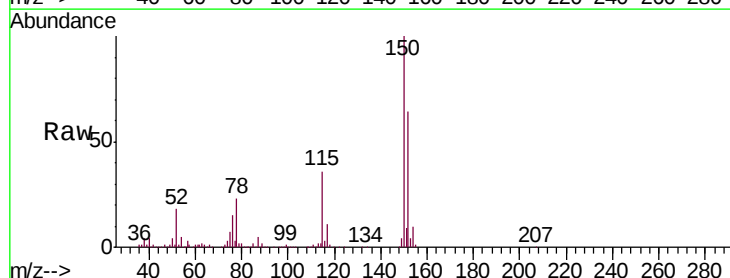
Tgt Ion:152 Resp: 321771

Ion Ratio Lower Upper

152 100

115 56.9 28.1 84.2

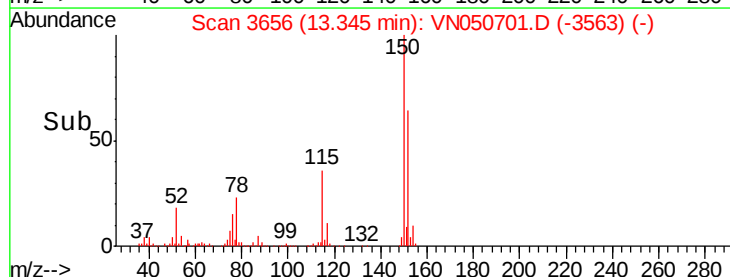
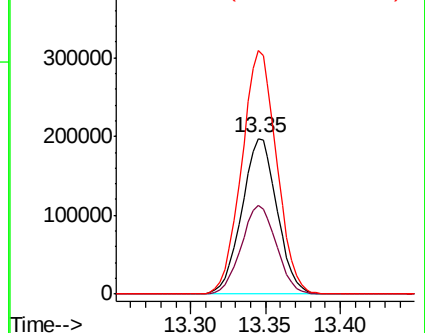
150 156.1 0.0 347.8

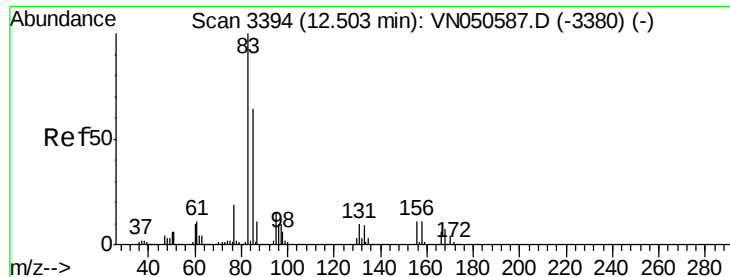


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#75

1,1,2,2-Tetrachloroethane

Concen: Below Cal

RT: 12.40 min Scan# 3363

Delta R.T. -0.10 min

Lab File: VN050701.D

Acq: 16 Aug 2018 15:06

Instrument :

MSVOA_N

ClientSampleId :

PB112098ZHE#05

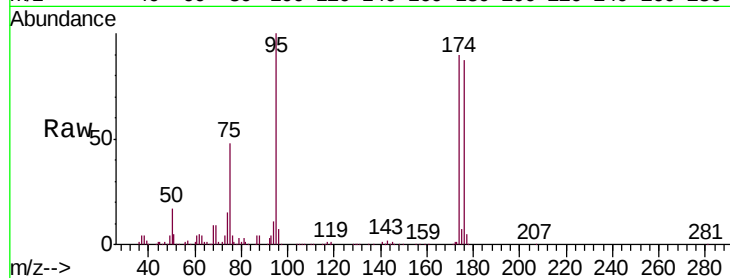
Tgt Ion: 83 Resp: 105

Ion Ratio Lower Upper

83 100

131 501.9 5.3 15.9#

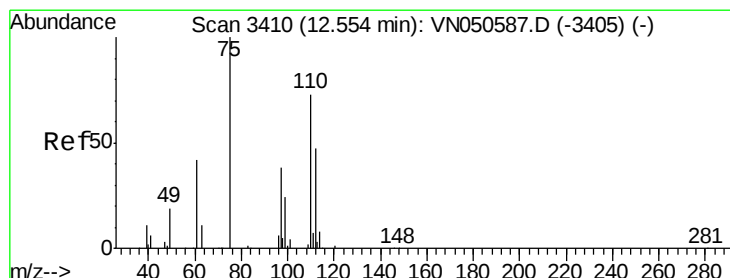
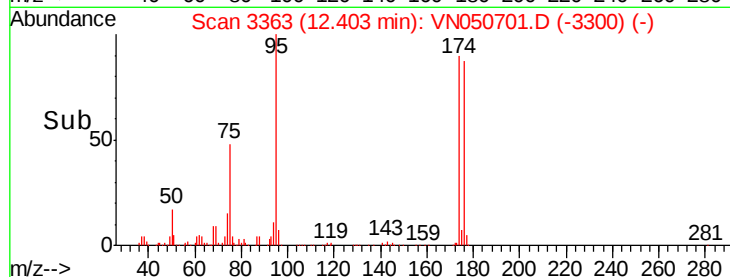
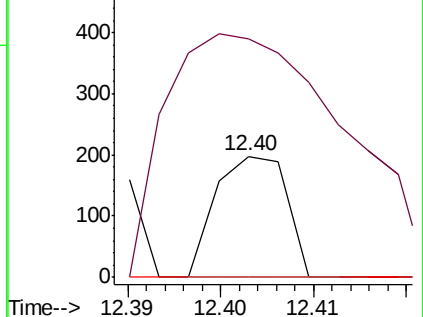
85 0.0 32.1 96.5#



Abundance Ion 82.90 (82.60 to 83.60): VNO

Ion 130.80 (130.50 to 131.50): VNO

Ion 84.90 (84.60 to 85.60): VNO



#76

1,2,3-Trichloropropane

Concen: 35.443 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. -0.15 min

Lab File: VN050701.D

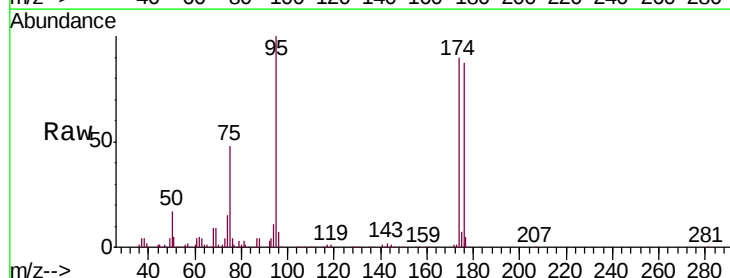
Acq: 16 Aug 2018 15:06

Tgt Ion: 75 Resp: 185811

Ion Ratio Lower Upper

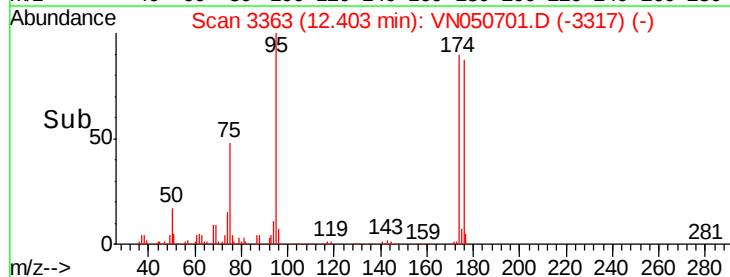
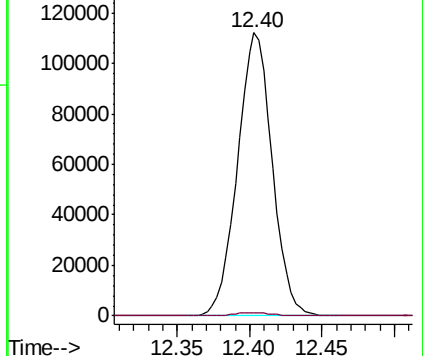
75 100

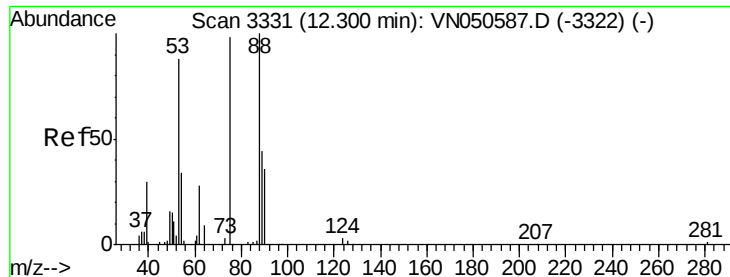
77 1.3 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 77.00 (76.70 to 77.70): VNO





#81

trans-1,4-Dichloro-2-butene

Concen: 128.382 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. 0.10 min

Lab File: VN050701.D

Acq: 16 Aug 2018 15:06

Instrument :

MSVOA_N

ClientSampleId :

PB112098ZHE#05

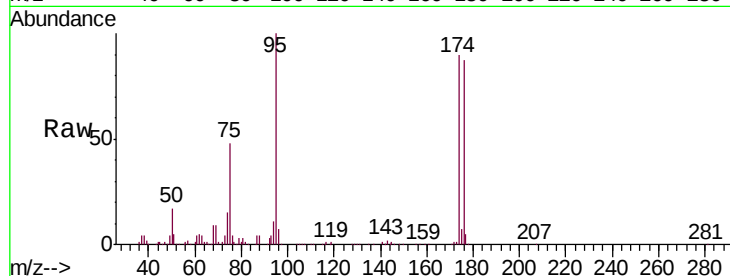
Tgt Ion: 75 Resp: 185811

Ion Ratio Lower Upper

75 100

53 0.2 72.2 108.2#

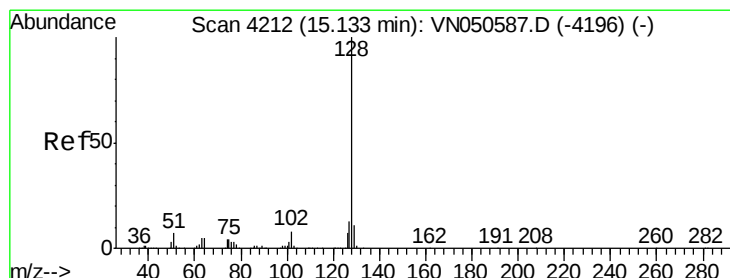
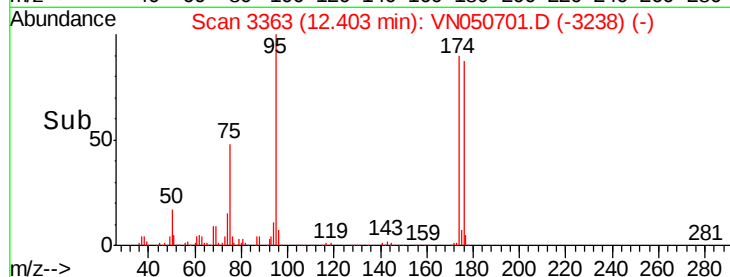
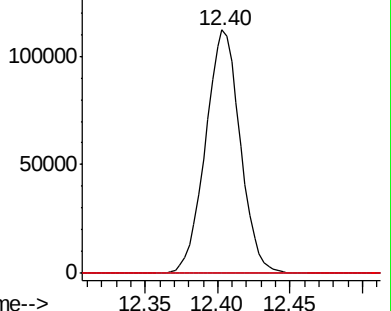
89 0.0 36.3 54.5#



Abundance Ion 74.90 (74.60 to 75.60): VN050701.D (-3363) (-)

Ion 53.00 (52.70 to 53.70): VN050701.D (-3363) (-)

Ion 88.90 (88.60 to 89.60): VN050701.D (-3363) (-)



#95

Naphthalene

Concen: 3.870 ug/l

RT: 15.13 min Scan# 4212

Delta R.T. 0.00 min

Lab File: VN050701.D

Acq: 16 Aug 2018 15:06

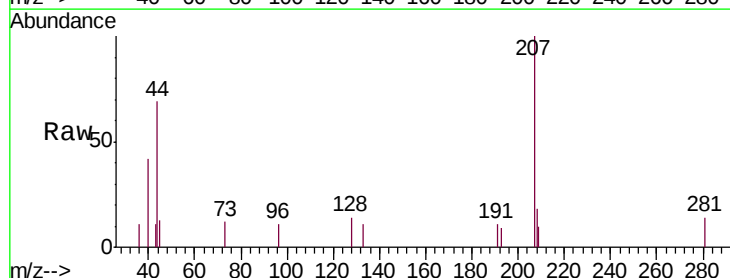
Tgt Ion: 128 Resp: 124

Ion Ratio Lower Upper

128 100

127 0.0 10.3 15.5#

129 0.0 8.5 12.7#



Abundance Ion 128.00 (127.70 to 128.70): VN050701.D (-4212) (-)

Ion 127.00 (126.70 to 127.70): VN050701.D (-4212) (-)

Ion 129.00 (128.70 to 129.70): VN050701.D (-4212) (-)

