

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN110218\
 Data File : VN052137.D
 Acq On : 2 Nov 2018 18:52
 Operator : MD\SY
 Sample : J5741-22
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 24 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleId :
 TP-5

Quant Time: Nov 02 23:15:58 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N103018W.M
 Quant Title : SW846 8260
 QLast Update : Wed Oct 31 02:45:22 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	266570	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	503672	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	476961	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	194280	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	235547	55.06	ug/l	0.00
Spiked Amount			Recovery	=	110.12%	
35) Dibromofluoromethane	7.60	113	189433	60.12	ug/l	0.00
Spiked Amount			Recovery	=	120.24%	
50) Toluene-d8	10.09	98	757249	60.13	ug/l	0.00
Spiked Amount			Recovery	=	120.26%	
62) 4-Bromofluorobenzene	12.40	95	254225	54.99	ug/l	0.00
Spiked Amount			Recovery	=	109.98%	

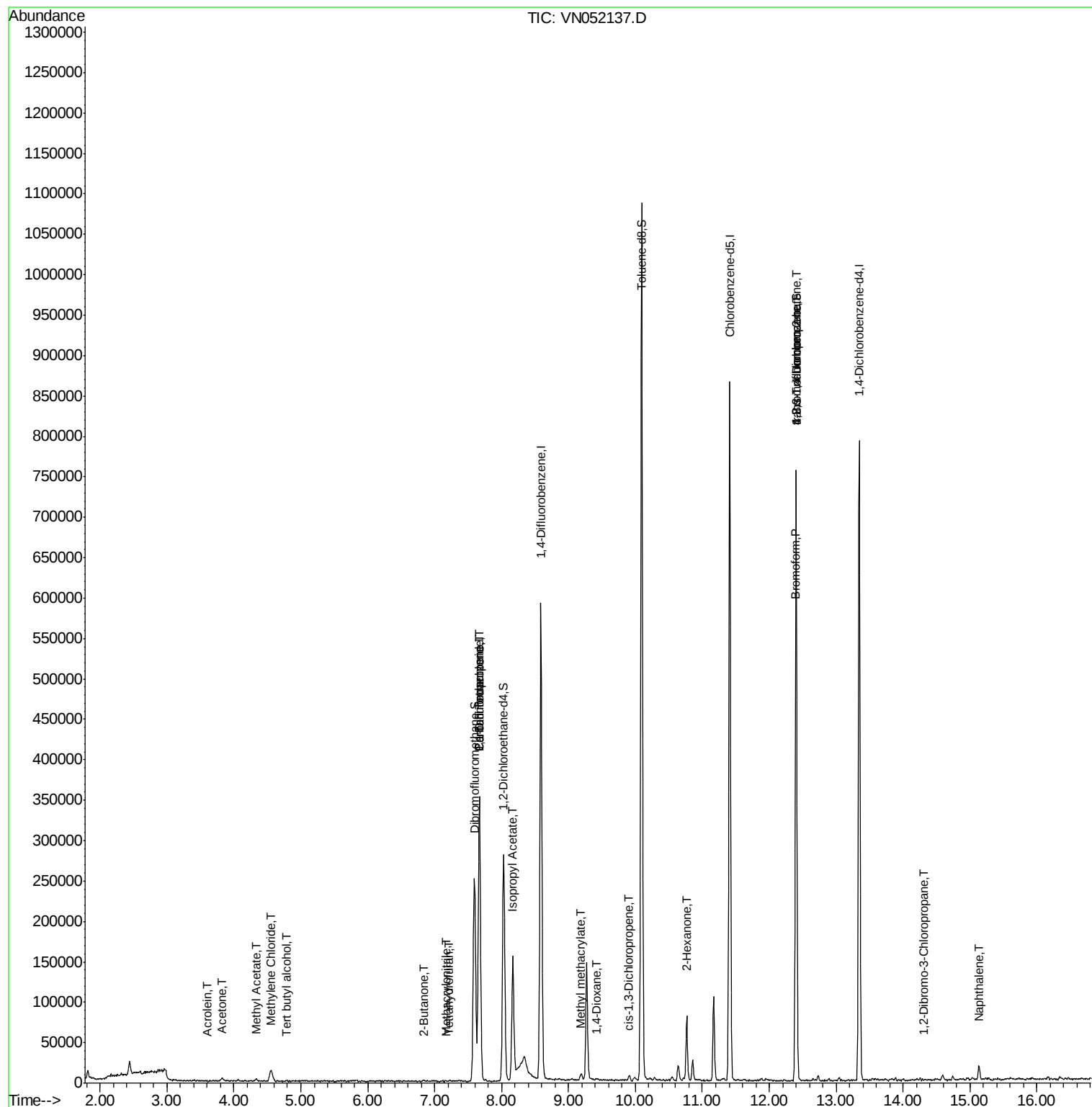
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	4.77	59	286	1.335	ug/l #	58
13) Acrolein	3.61	56	66	24.315	ug/l #	12
16) Acetone	3.82	43	3275	3.587	ug/l	99
18) Methyl Acetate	4.33	43	1916	0.659	ug/l	92
20) Methylene Chloride	4.55	84	4171	1.199	ug/l #	92
25) 2-Butanone	6.83	43	373	0.260	ug/l #	50
29) Tetrahydrofuran	7.21	42	530	0.555	ug/l #	36
31) Cyclohexane	7.67	56	6857	Below Cal	#	1
36) 1,1-Dichloropropene	7.67	75	22731	4.438	ug/l #	53
38) Carbon Tetrachloride	7.67	117	29118	6.594	ug/l #	17
41) Methacrylonitrile	7.17	41	178	0.243	ug/l #	22
43) Isopropyl Acetate	8.17	43	183654	30.123	ug/l	98
48) Methyl methacrylate	9.18	41	5223	1.690	ug/l #	19
49) 1,4-Dioxane	9.41	88	72	27.769	ug/l #	50
54) cis-1,3-Dichloropropene	9.90	75	1252	0.217	ug/l #	73
59) 2-Hexanone	10.76	43	11930	5.052	ug/l #	59
71) Bromoform	12.38	173	270	2.305	ug/l #	29
76) 1,2,3-Trichloropropane	12.40	75	134279	37.757	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	134279	125.322	ug/l #	9
92) 1,2-Dibromo-3-Chloropropan	14.31	75	29	0.968	ug/l #	11
95) Naphthalene	15.14	128	12997	2.335	ug/l #	94

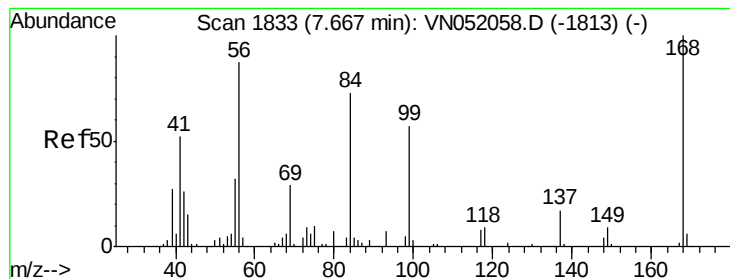
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1834

Delta R.T. 0.00 min

Lab File: VN052137.D

Acq: 2 Nov 2018 18:52

Instrument :

MSVOA_N

ClientSampled :

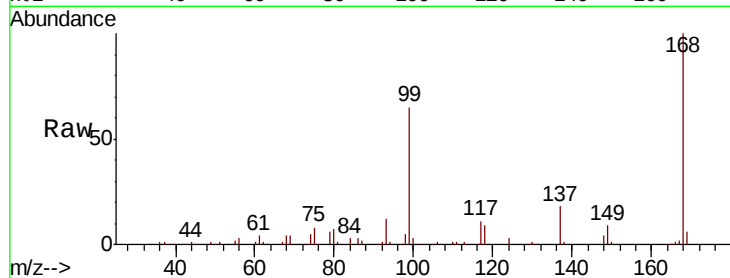
TP-5

Tot Ion:168 Resp: 266570

Ion Ratio Lower Upper

168 100

99 64.7 56.6 85.0



Abundance Ion 167.90 (167.60 to 168.60): VN052137.D (-1740) (-)

Ion 98.90 (98.60 to 99.60): VN052137.D (-1740) (-)

7.67

120000

100000

80000

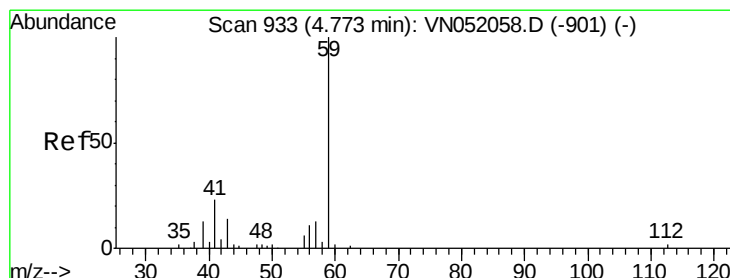
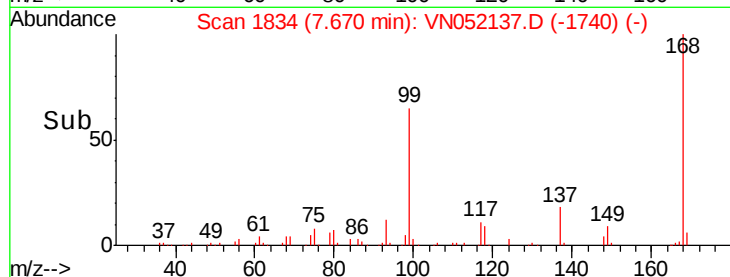
60000

40000

20000

0

Time-->



#11

Tert butyl alcohol

Concen: 1.335 ug/l

RT: 4.77 min Scan# 933

Delta R.T. -0.00 min

Lab File: VN052137.D

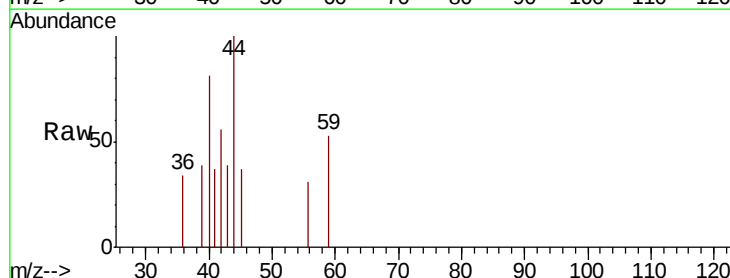
Acq: 2 Nov 2018 18:52

Tgt Ion: 59 Resp: 286

Ion Ratio Lower Upper

59 100

57 23.8 7.0 10.6#



Abundance Ion 59.00 (58.70 to 59.70): VN052137.D (-840) (-)

Ion 57.00 (56.70 to 57.70): VN052137.D (-840) (-)

4.77

300

250

200

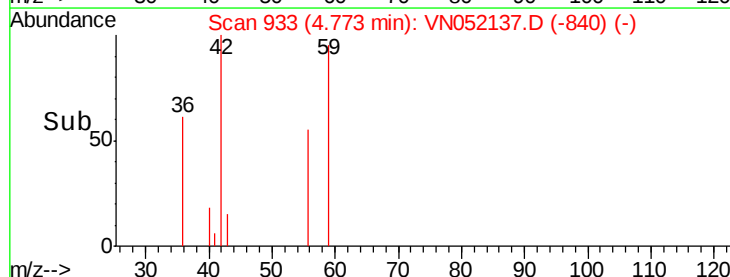
150

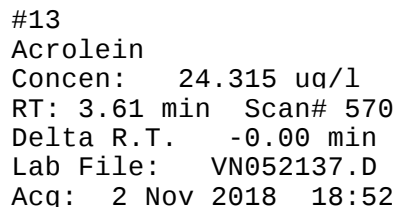
100

50

0

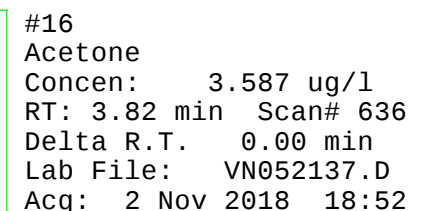
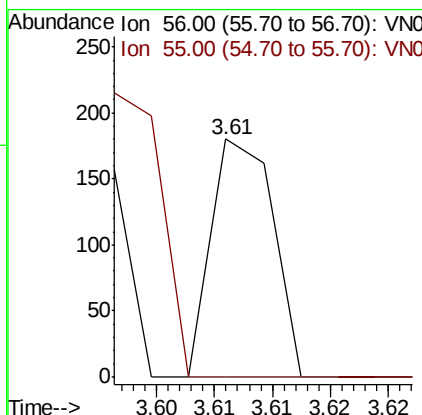
Time-->



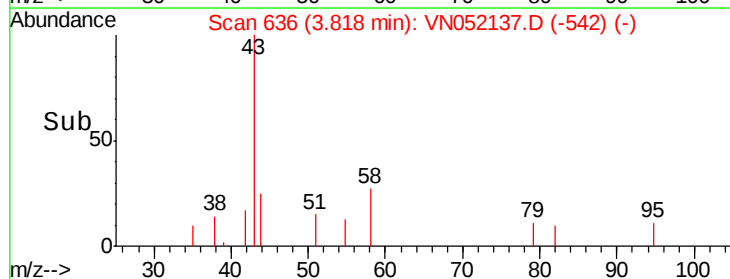
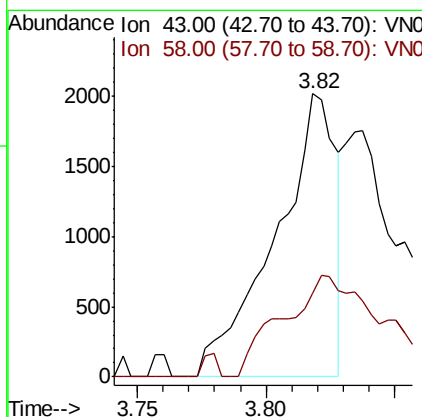


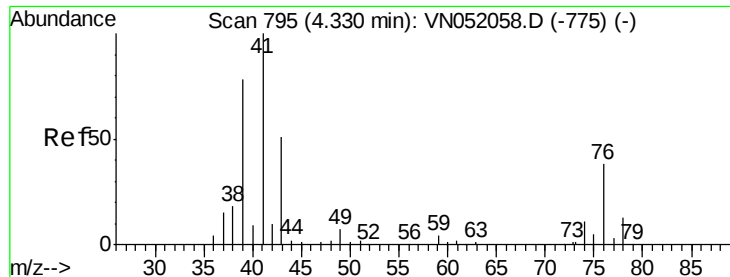
Instrument :
MSVOA_N
ClientSampleId :
TP-5

Tot	Ion: 56	Resp:	66
Ion	Ratio	Lower	Upper
56	100		
55	0.0	59.9	89.9#



Tgt	Ion: 43	Resp:	3275
Ion	Ratio	Lower	Upper
43	100		
58	29.7	24.2	36.2

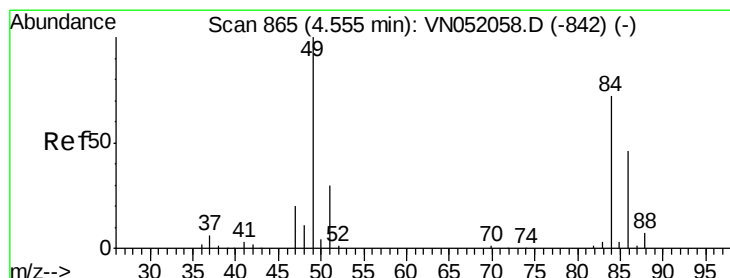
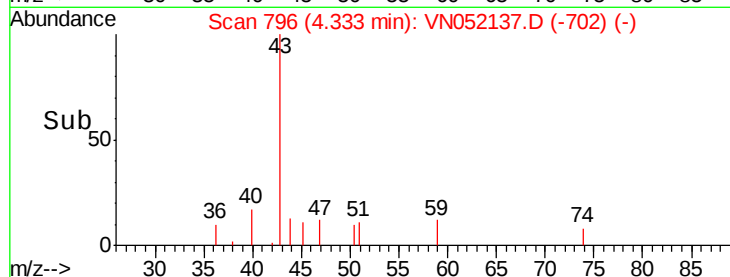
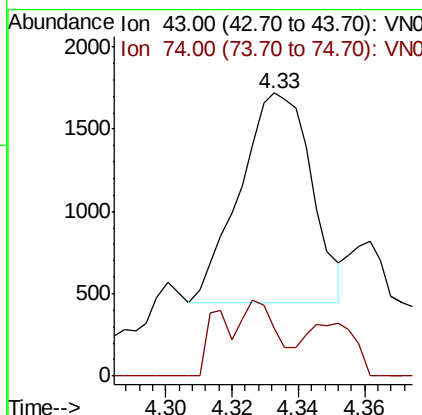
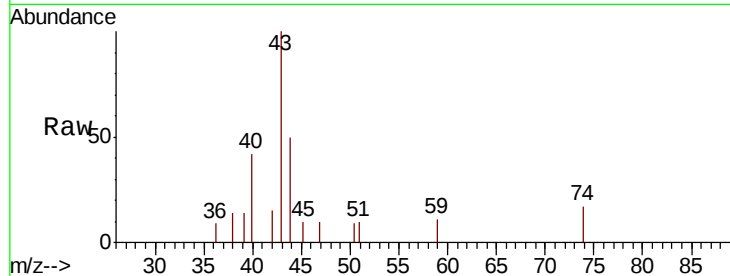




#18
Methvl Acetate
Concen: 0.659 ug/l
RT: 4.33 min Scan# 796
Delta R.T. 0.00 min
Lab File: VN052137.D
Acq: 2 Nov 2018 18:52

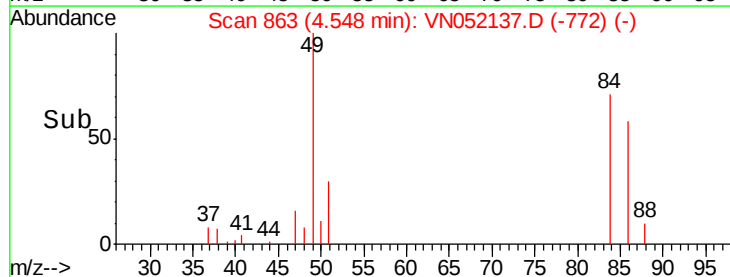
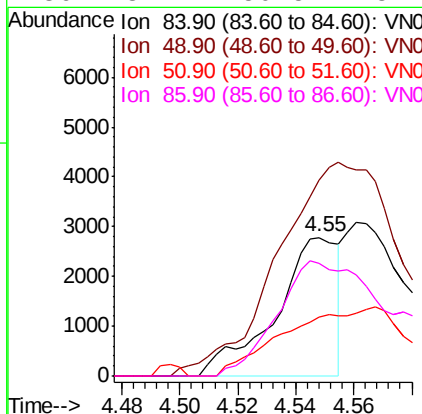
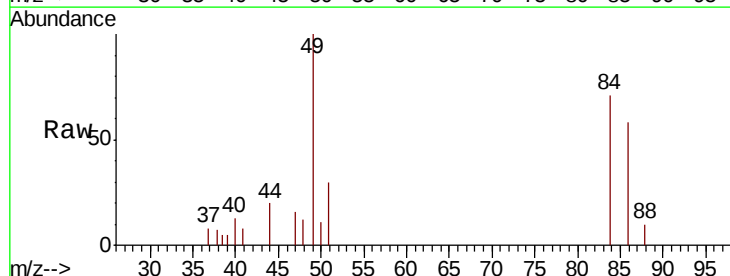
Instrument :
MSVOA_N
ClientSampled :
TP-5

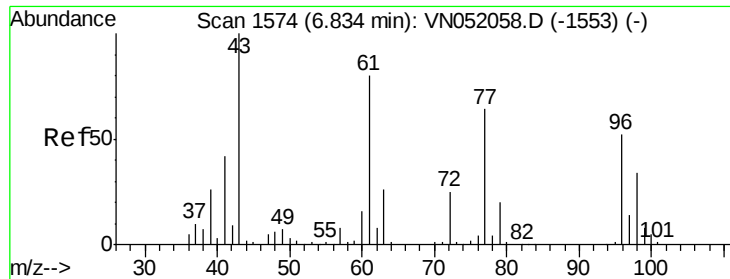
Tot Ion: 43 Resp: 1916
Ion Ratio Lower Upper
43 100
74 18.8 17.9 26.9



#20
Methylene Chloride
Concen: 1.199 ug/l
RT: 4.55 min Scan# 863
Delta R.T. -0.01 min
Lab File: VN052137.D
Acq: 2 Nov 2018 18:52

Tgt Ion: 84 Resp: 4171
Ion Ratio Lower Upper
84 100
49 133.7 110.6 165.8
51 42.6 33.7 50.5
86 81.7 50.5 75.7#

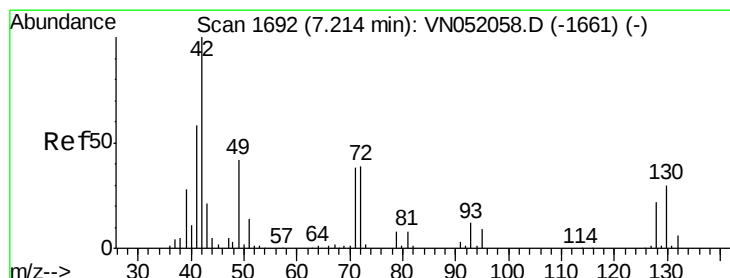
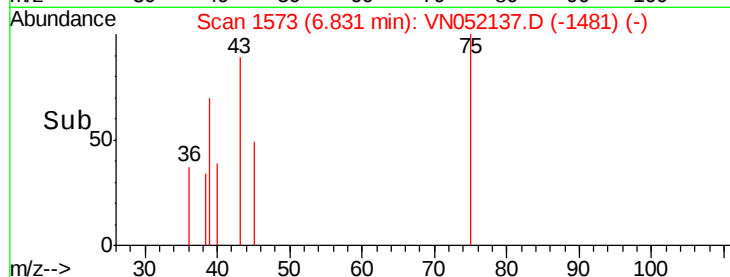
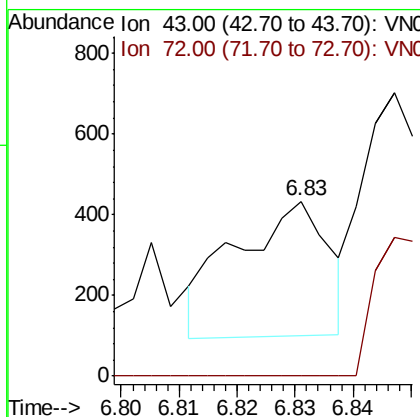
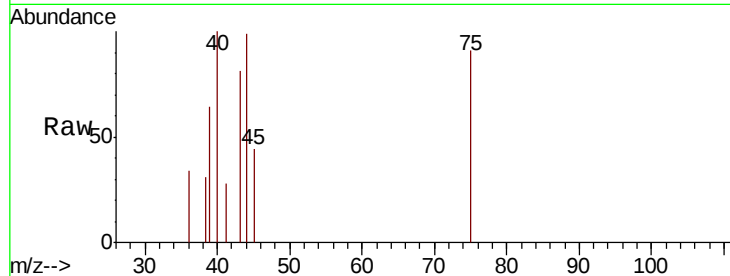




#25
2-Butanone
Concen: 0.260 ug/l
RT: 6.83 min Scan# 1573
Delta R.T. -0.00 min
Lab File: VN052137.D
Acq: 2 Nov 2018 18:52

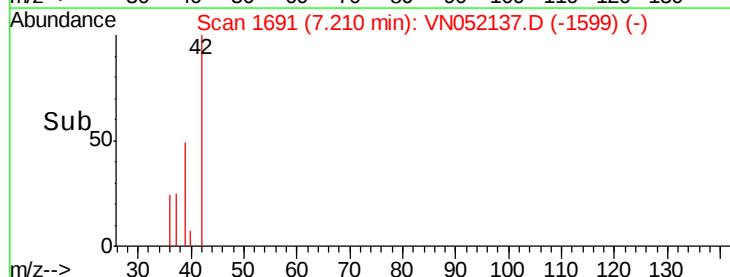
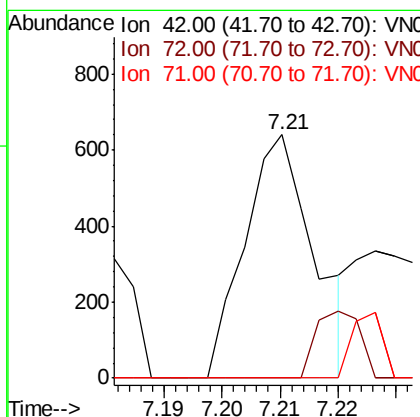
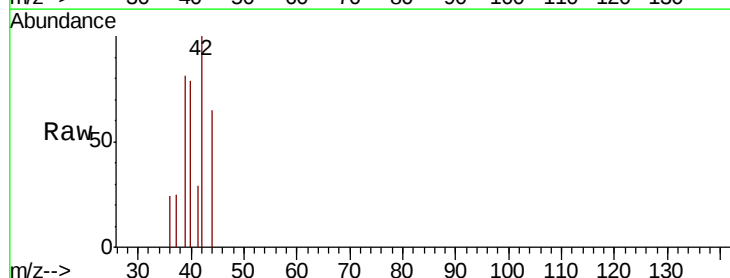
Instrument :
MSVOA_N
ClientSampled :
TP-5

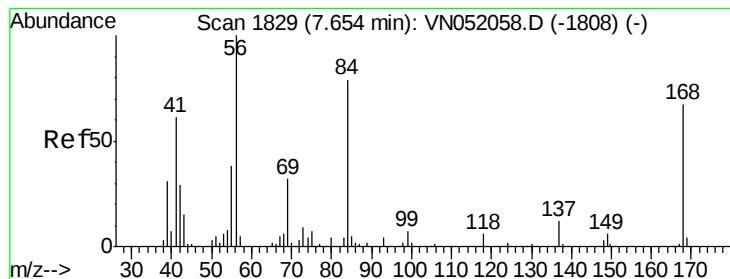
Tot Ion: 43 Resp: 373
Ion Ratio Lower Upper
43 100
72 0.0 20.2 30.2#



#29
Tetrahydrofuran
Concen: 0.555 ug/l
RT: 7.21 min Scan# 1691
Delta R.T. -0.00 min
Lab File: VN052137.D
Acq: 2 Nov 2018 18:52

Tgt Ion: 42 Resp: 530
Ion Ratio Lower Upper
42 100
72 0.0 32.5 48.7#
71 0.0 30.6 46.0#





#31

Cyclohexane

Concen: Below Cal

RT: 7.67 min Scan# 1834

Delta R.T. 0.02 min

Lab File: VN052137.D

Acq: 2 Nov 2018 18:52

Instrument :

MSVOA_N

ClientSampled :

TP-5

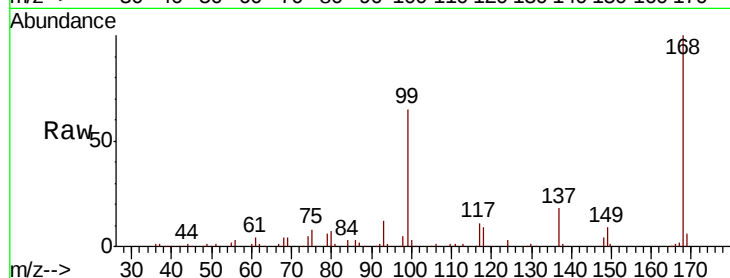
Tot Ion: 56 Resp: 6857

Ion Ratio Lower Upper

56 100

69 171.3 25.8 38.6#

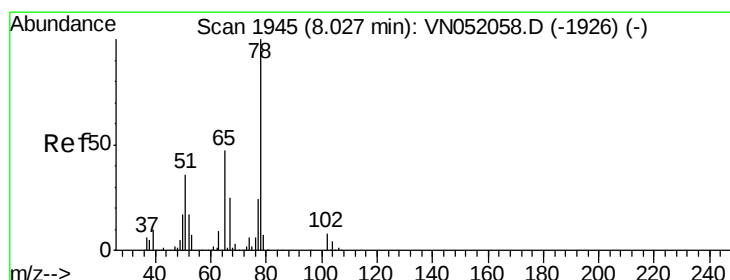
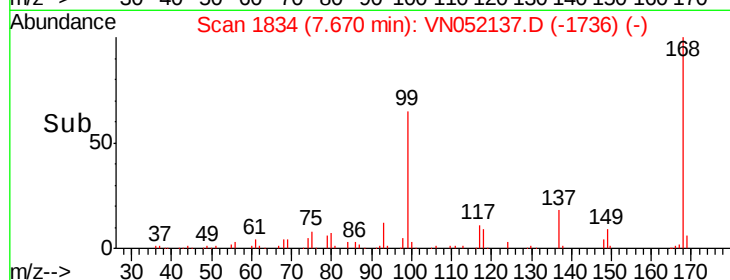
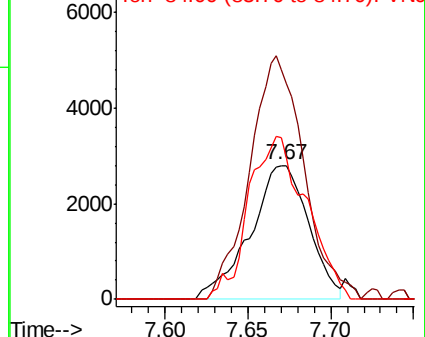
84 120.8 63.5 95.3#



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: Below ug/l

RT: 8.03 min Scan# 1946

Delta R.T. 0.00 min

Lab File: VN052137.D

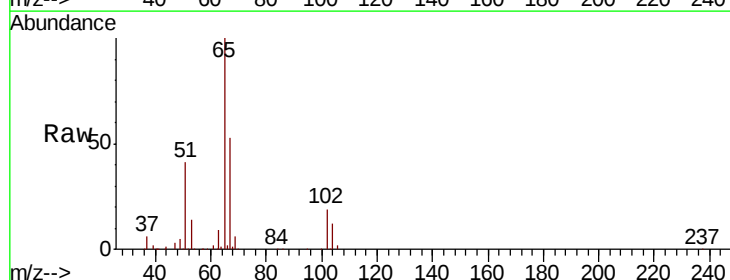
Acq: 2 Nov 2018 18:52

Tgt Ion: 65 Resp: 235547

Ion Ratio Lower Upper

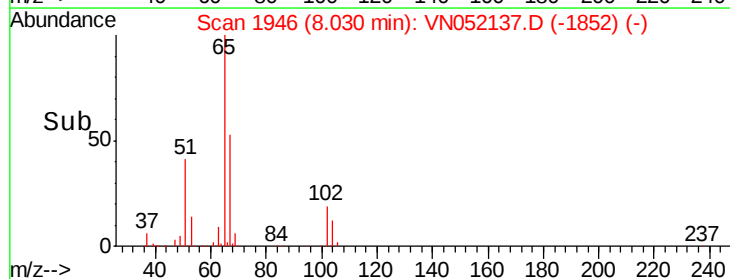
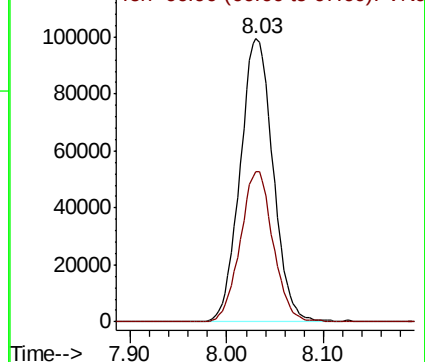
65 100

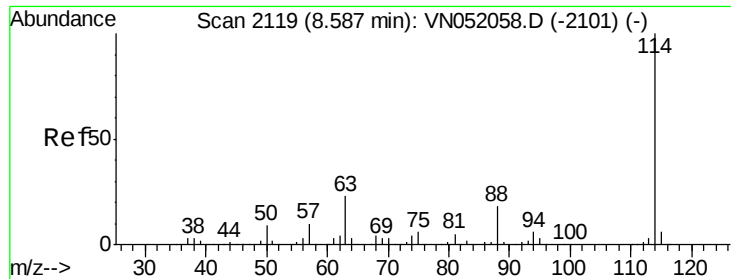
67 53.0 0.0 105.2



Abundance Ion 64.90 (64.60 to 65.60): VN0

Ion 66.90 (66.60 to 67.60): VN0

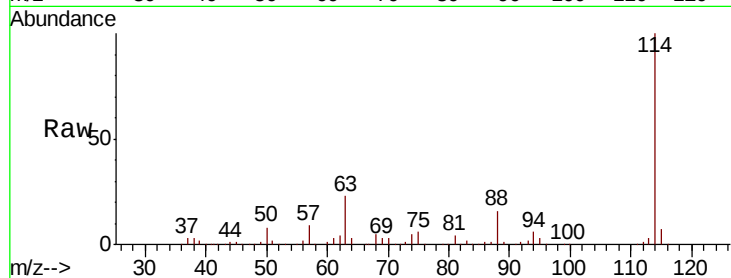




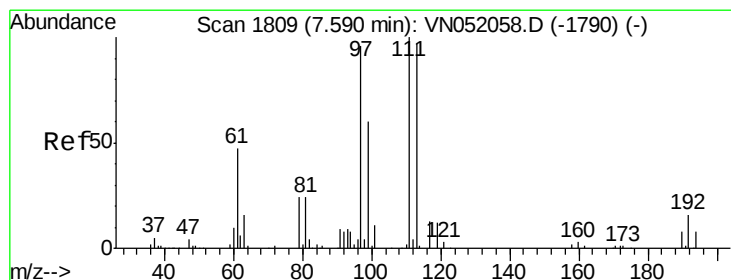
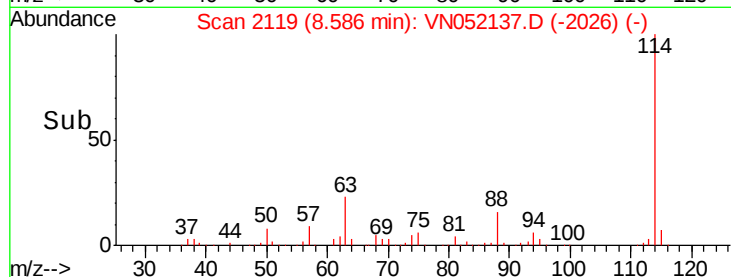
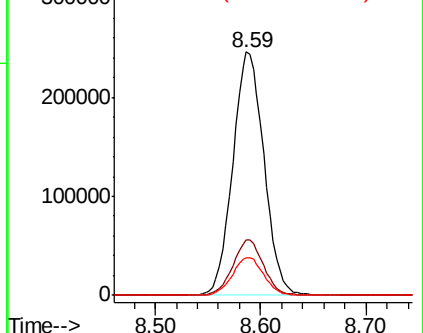
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. -0.00 min
 Lab File: VN052137.D
 Acq: 2 Nov 2018 18:52

Instrument :
 MSVOA_N
 ClientSampleId :
 TP-5

Tot Ion:114 Resp: 503672
 Ion Ratio Lower Upper
 114 100
 63 22.8 0.0 46.0
 88 15.6 0.0 35.4

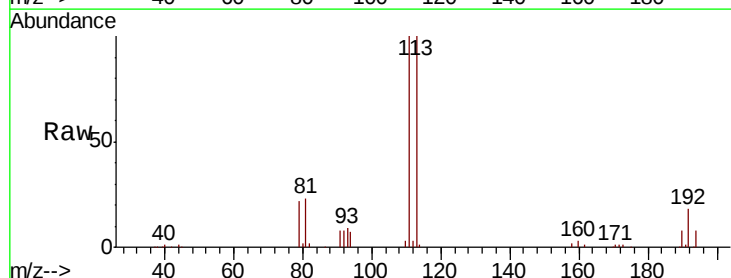


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VN
 Ion 87.90 (87.60 to 88.60): VN

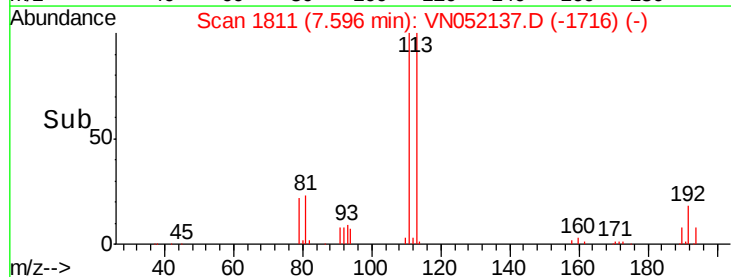
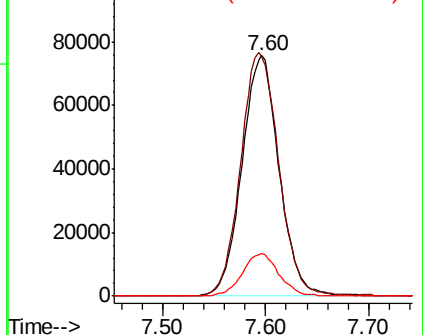


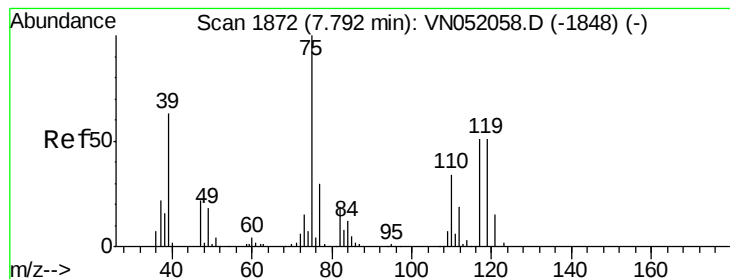
#35
 Dibromofluoromethane
 Concen: 50.000 ug/l
 RT: 7.60 min Scan# 1811
 Delta R.T. 0.01 min
 Lab File: VN052137.D
 Acq: 2 Nov 2018 18:52

Tgt Ion:113 Resp: 189433
 Ion Ratio Lower Upper
 113 100
 111 104.1 83.1 124.7
 192 17.4 12.7 19.1



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





#36

1,1-Dichloropropene

Concen: 4.438 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.13 min

Lab File: VN052137.D

Acq: 2 Nov 2018 18:52

Instrument :

MSVOA_N

ClientSampled :

TP-5

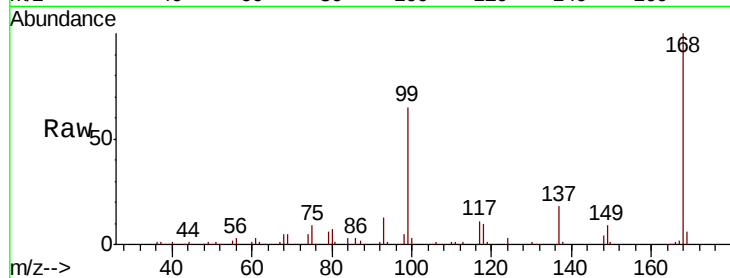
Tot Ion: 75 Resp: 22731

Ion Ratio Lower Upper

75 100

110 10.2 16.0 48.0#

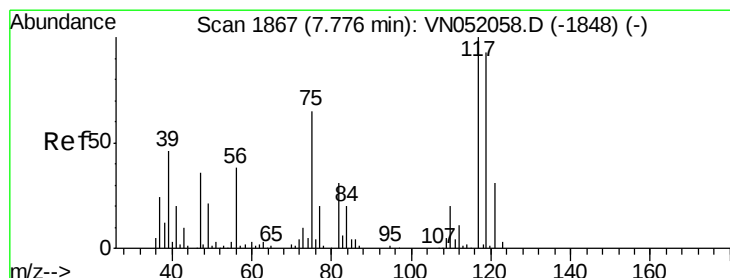
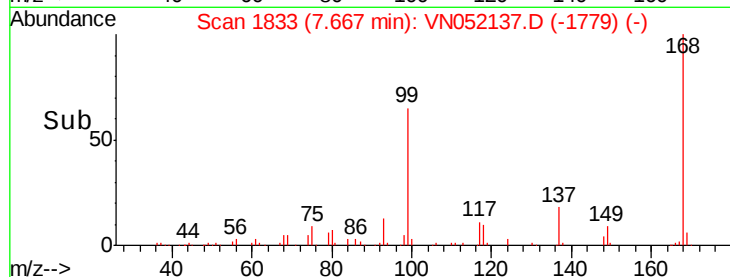
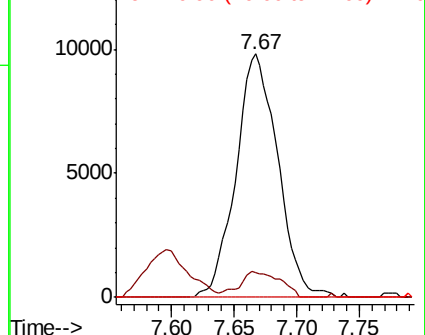
77 0.0 24.5 36.7#



Abundance Ion 74.90 (74.60 to 75.60): VN052058.D (-1848) (-)

Ion 109.90 (109.60 to 110.60): VN052058.D (-1848) (-)

Ion 76.90 (76.60 to 77.60): VN052058.D (-1848) (-)



#38

Carbon Tetrachloride

Concen: 6.594 ug/l

RT: 7.67 min Scan# 1835

Delta R.T. -0.10 min

Lab File: VN052137.D

Acq: 2 Nov 2018 18:52

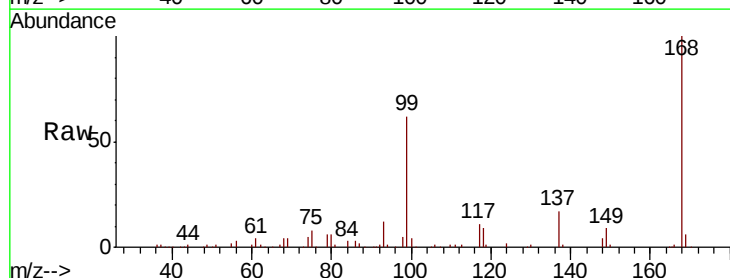
Tgt Ion: 117 Resp: 29118

Ion Ratio Lower Upper

117 100

119 5.2 74.8 112.2#

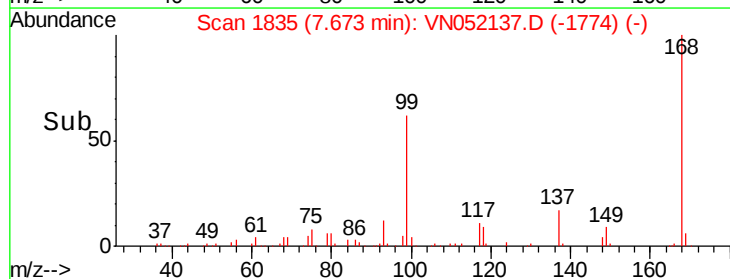
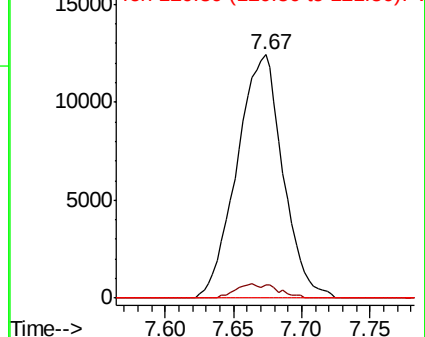
121 0.0 25.1 37.7#

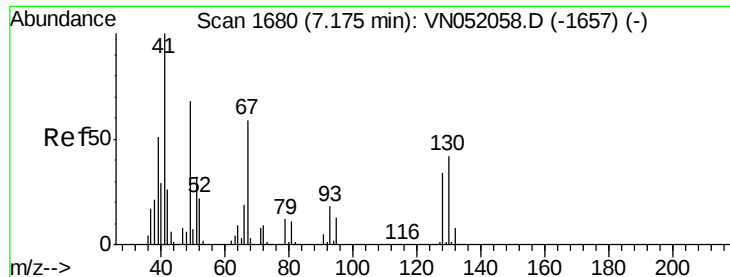


Abundance Ion 116.80 (116.50 to 117.50): VN052058.D (-1848) (-)

Ion 118.80 (118.50 to 119.50): VN052058.D (-1848) (-)

Ion 120.80 (120.50 to 121.50): VN052058.D (-1848) (-)

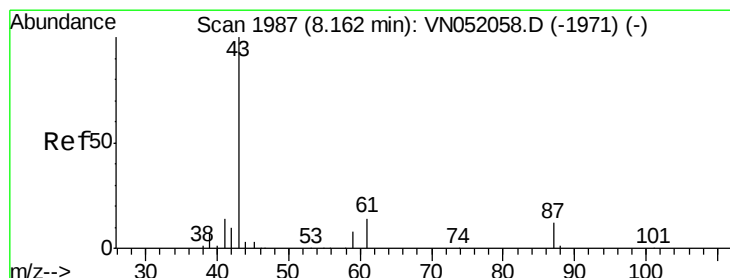
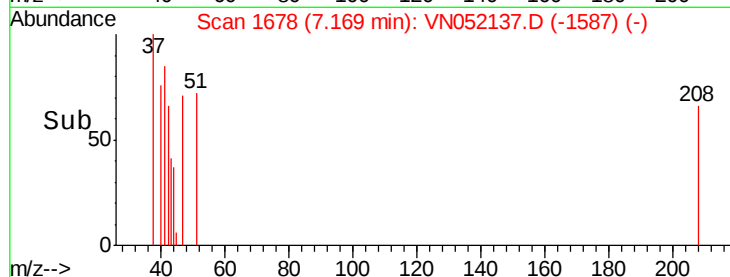
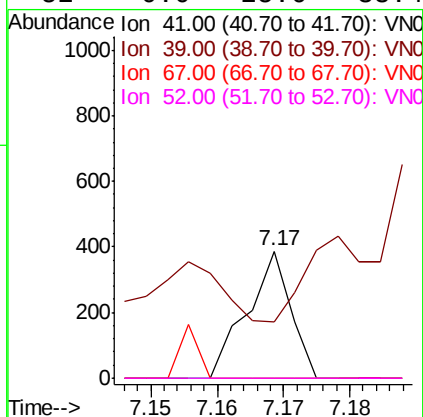
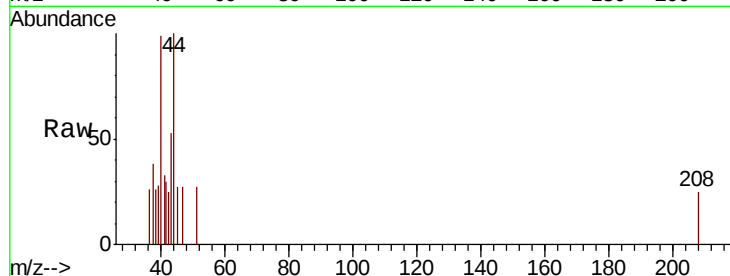




#41
Methacrylonitrile
Concen: 0.243 ug/l
RT: 7.17 min Scan# 1678
Delta R.T. -0.01 min
Lab File: VN052137.D
Acq: 2 Nov 2018 18:52

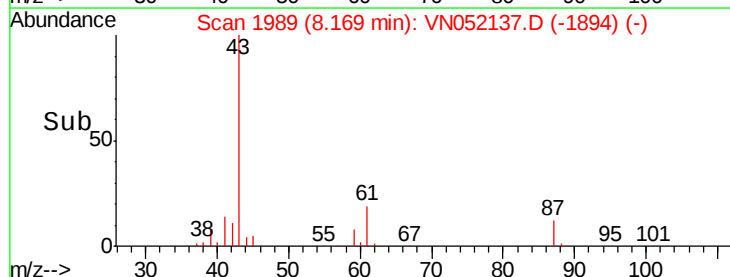
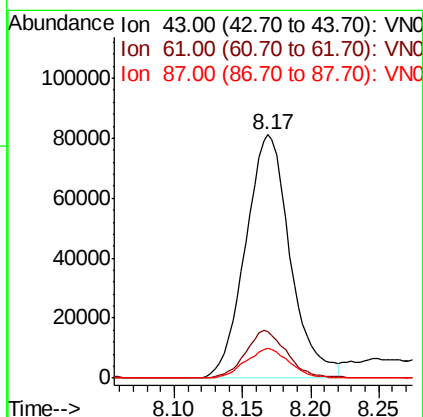
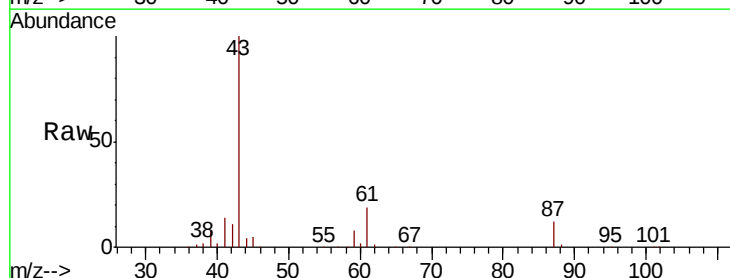
Instrument :
MSVOA_N
ClientSampled :
TP-5

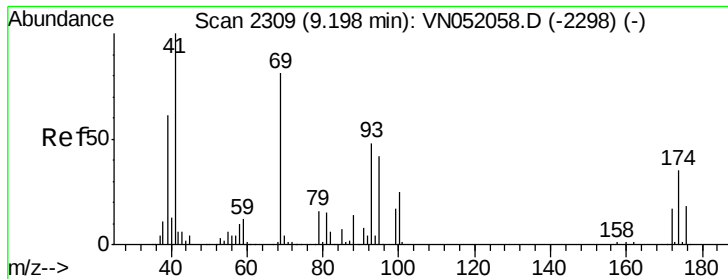
Tot Ion:	41	Resp:	178
Ion	Ratio	Lower	Upper
41	100		
39	110.7	33.2	49.8#
67	18.0	63.5	95.3#
52	0.0	25.6	38.4#



#43
Isopropyl Acetate
Concen: 30.123 ug/l
RT: 8.17 min Scan# 1989
Delta R.T. 0.01 min
Lab File: VN052137.D
Acq: 2 Nov 2018 18:52

Tgt Ion:	43	Resp:	183654
Ion	Ratio	Lower	Upper
43	100		
61	18.2	15.4	23.0
87	11.8	9.8	14.8

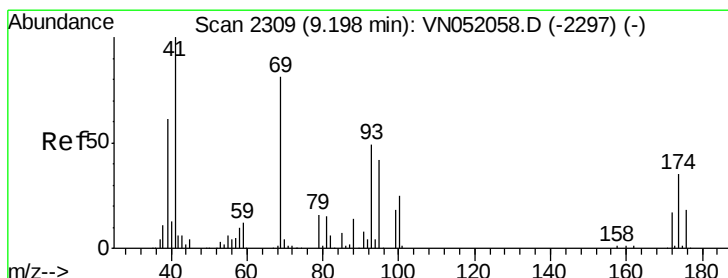
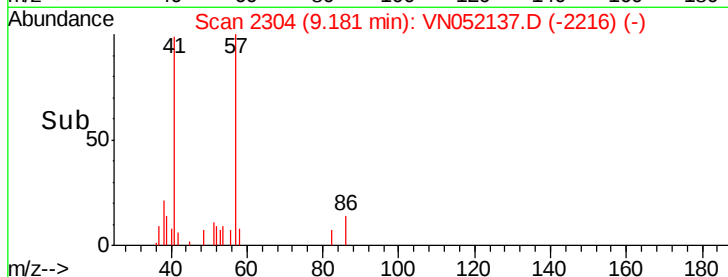
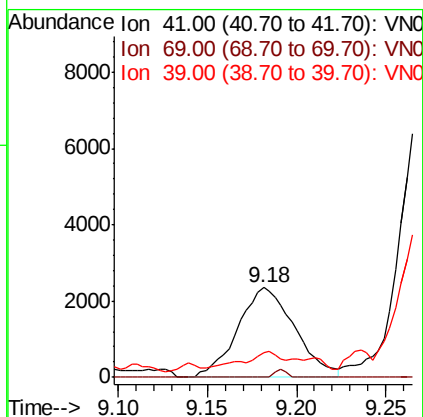
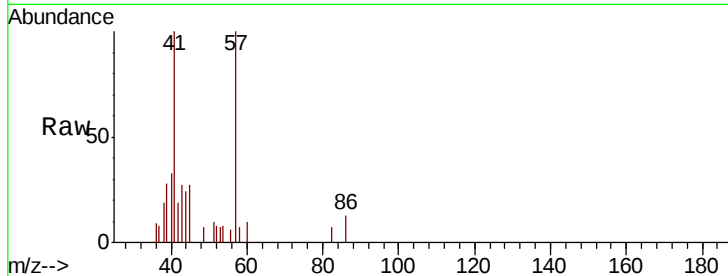




#48
Methvl methacrylate
Concen: 1.690 ug/l
RT: 9.18 min Scan# 2304
Delta R.T. -0.02 min
Lab File: VN052137.D
Acq: 2 Nov 2018 18:52

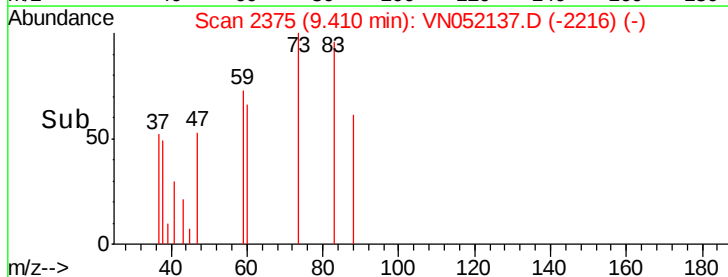
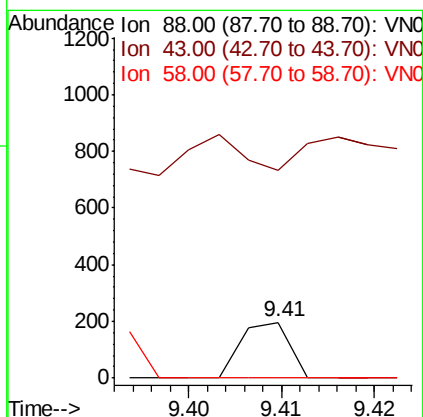
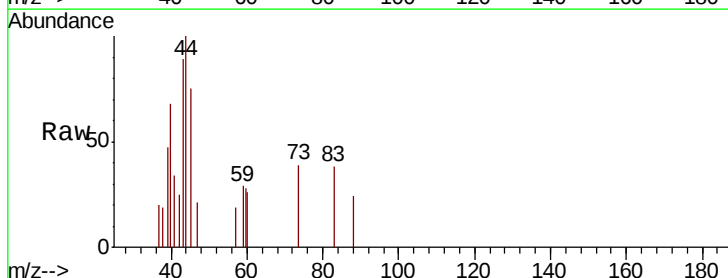
Instrument :
MSVOA_N
ClientSampled :
TP-5

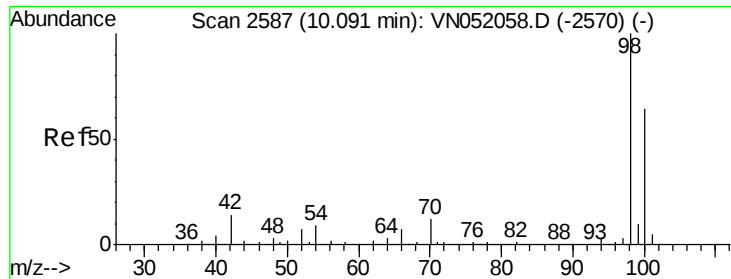
Tot Ion: 41 Resp: 5223
Ion Ratio Lower Upper
41 100
69 2.0 67.1 100.7#
39 10.6 50.5 75.7#



#49
1,4-Dioxane
Concen: 27.769 ug/l
RT: 9.41 min Scan# 2375
Delta R.T. 0.21 min
Lab File: VN052137.D
Acq: 2 Nov 2018 18:52

Tgt Ion: 88 Resp: 72
Ion Ratio Lower Upper
88 100
43 0.0 34.1 51.1#
58 43.1 62.8 94.2#





#50

Toluene-d8

Concen: 27.769 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. -0.00 min

Lab File: VN052137.D

Acq: 2 Nov 2018 18:52

Instrument :

MSVOA_N

ClientSampled :

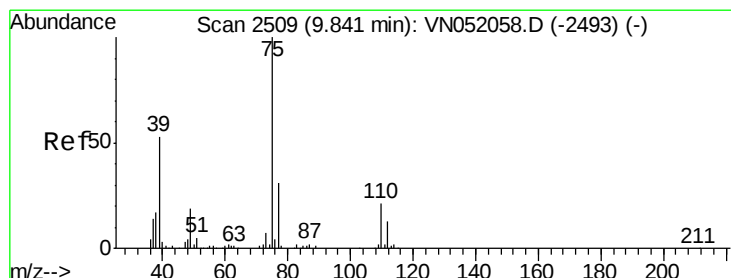
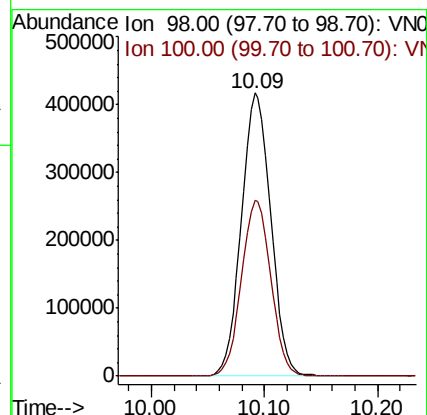
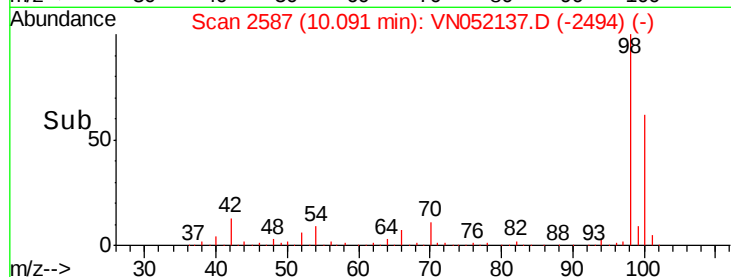
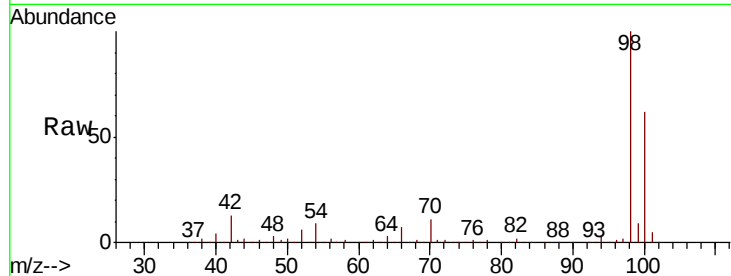
TP-5

Tot Ion: 98 Resp: 757249

Ion Ratio Lower Upper

98 100

100 62.0 51.4 77.2



#54

cis-1,3-Dichloropropene

Concen: 0.217 ug/l

RT: 9.90 min Scan# 2529

Delta R.T. 0.06 min

Lab File: VN052137.D

Acq: 2 Nov 2018 18:52

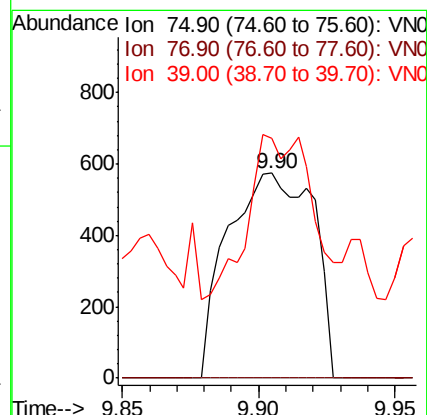
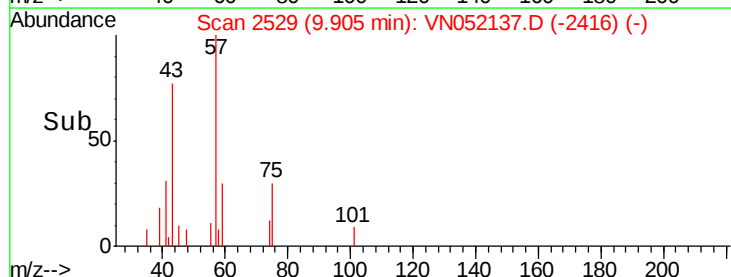
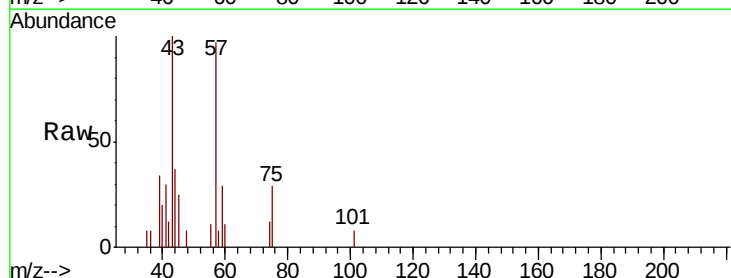
Tgt Ion: 75 Resp: 1252

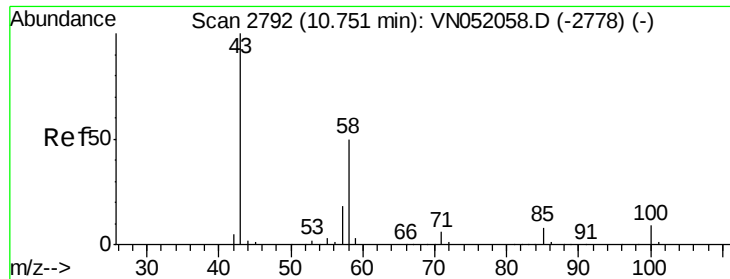
Ion Ratio Lower Upper

75 100

77 0.0 25.0 37.4#

39 60.2 42.3 63.5

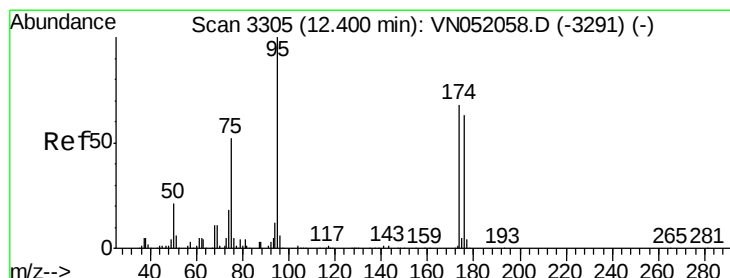
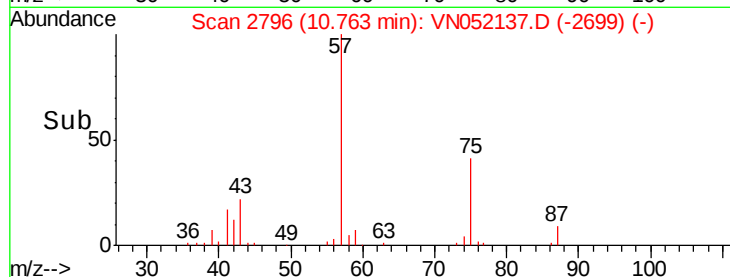
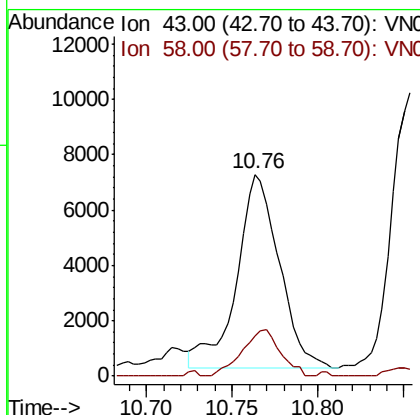
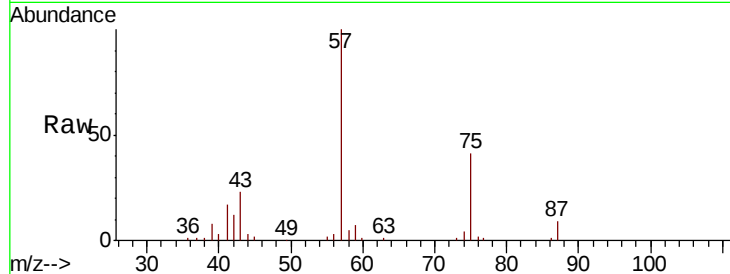




#59
2-Hexanone
Concen: 5.052 ug/l
RT: 10.76 min Scan# 2796
Delta R.T. 0.01 min
Lab File: VN052137.D
Acq: 2 Nov 2018 18:52

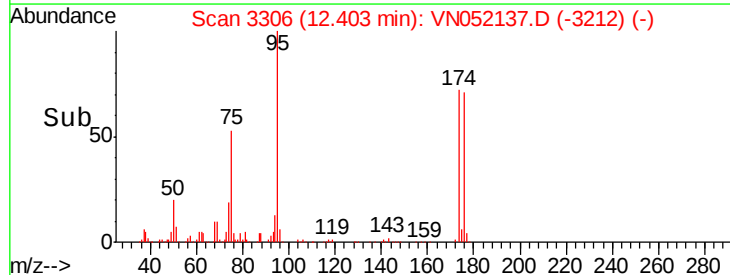
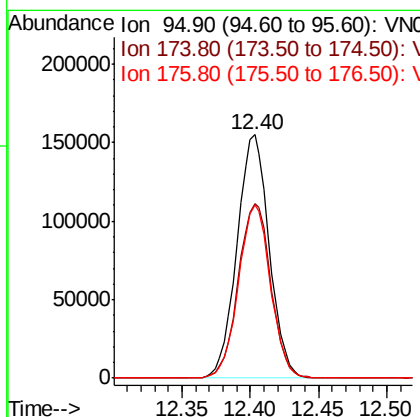
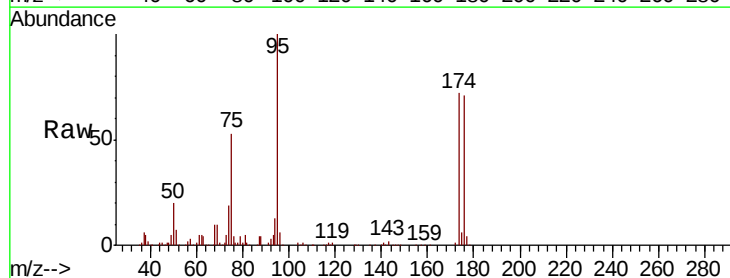
Instrument :
MSVOA_N
ClientSampleId :
TP-5

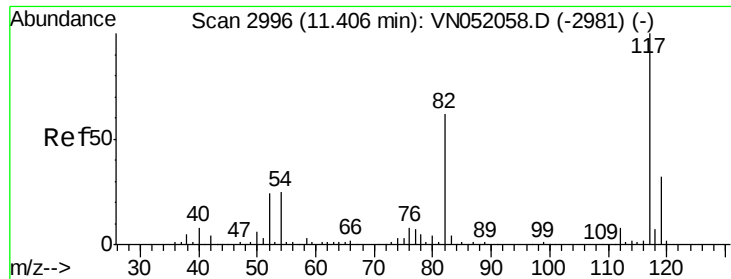
Tot Ion: 43 Resp: 11930
Ion Ratio Lower Upper
43 100
58 21.8 25.2 75.6#



#62
4-Bromofluorobenzene
Concen: N.D. ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.00 min
Lab File: VN052137.D
Acq: 2 Nov 2018 18:52

Tgt Ion: 95 Resp: 254225
Ion Ratio Lower Upper
95 100
174 72.6 0.0 131.8
176 70.6 0.0 126.0

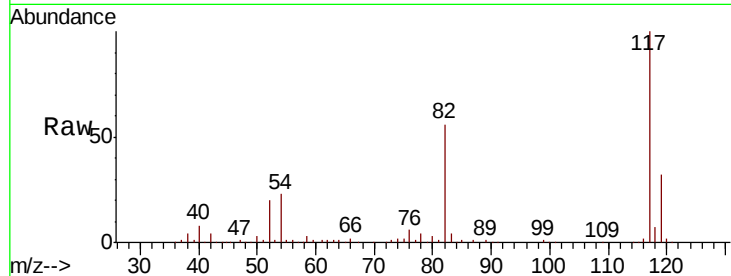




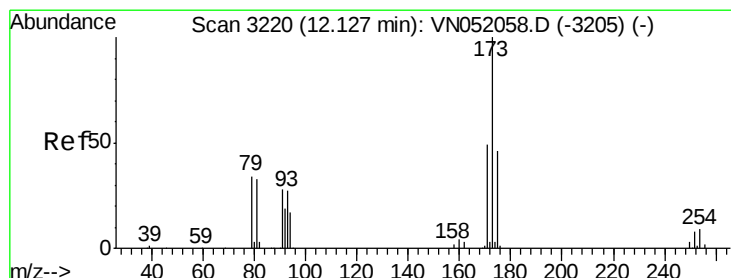
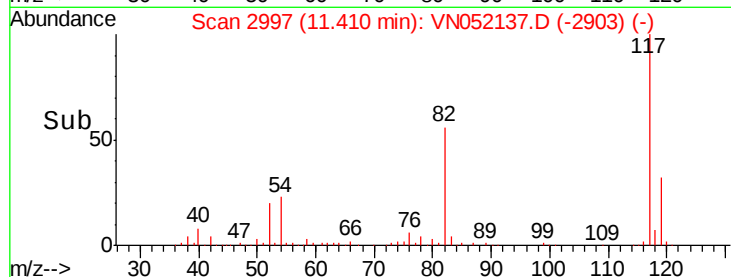
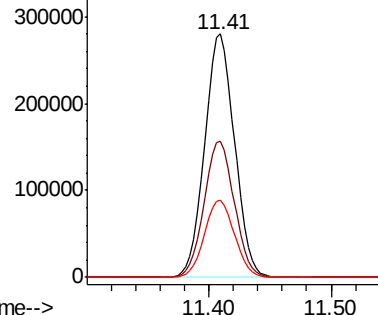
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2997
Delta R.T. 0.00 min
Lab File: VN052137.D
Acq: 2 Nov 2018 18:52

Instrument :
MSVOA_N
ClientSampleId :
TP-5

Tot Ion:117 Resp: 476961
Ion Ratio Lower Upper
117 100
82 55.9 49.9 74.9
119 31.5 25.7 38.5

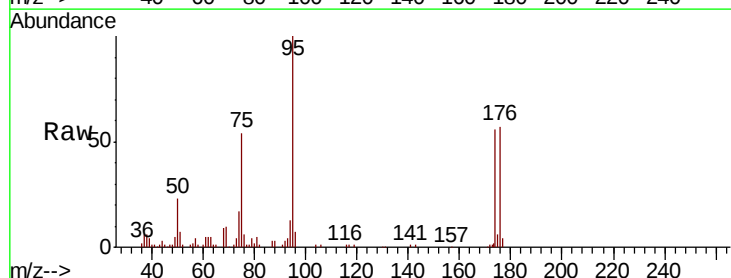


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

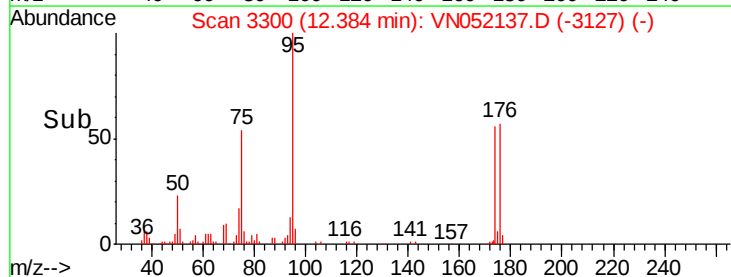
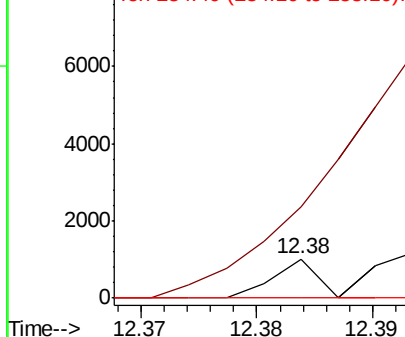


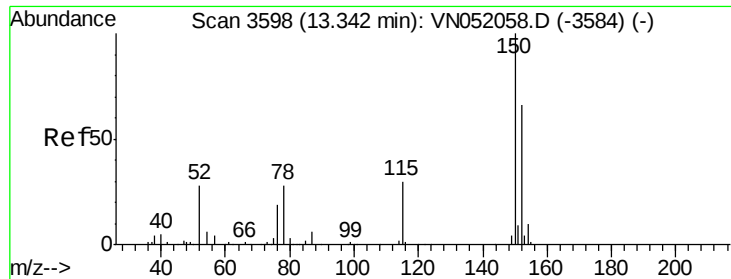
#71
Bromoform
Concen: 2.305 ug/l
RT: 12.38 min Scan# 3300
Delta R.T. 0.26 min
Lab File: VN052137.D
Acq: 2 Nov 2018 18:52

Tgt Ion:173 Resp: 270
Ion Ratio Lower Upper
173 100
175 0.0 23.9 71.7#
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# 3599

Delta R.T. 0.00 min

Lab File: VN052137.D

Acq: 2 Nov 2018 18:52

Instrument :

MSVOA_N

ClientSampled :

TP-5

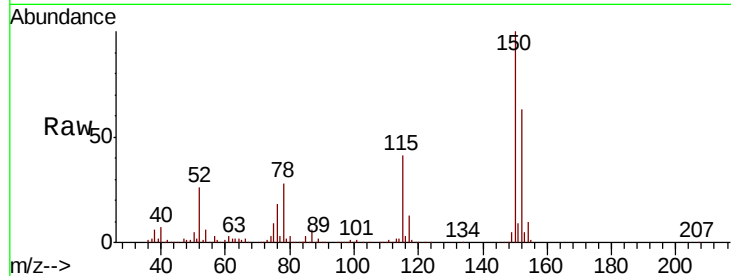
Tot Ion:152 Resp: 194280

Ion Ratio Lower Upper

152 100

115 63.3 31.6 95.0

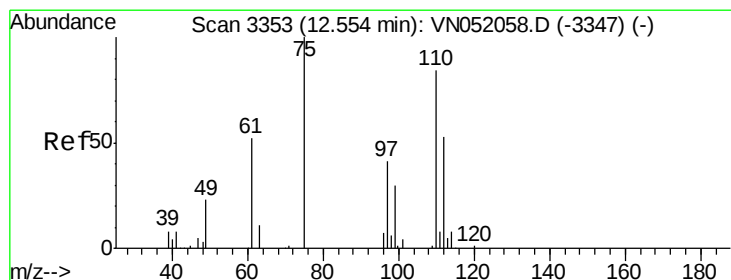
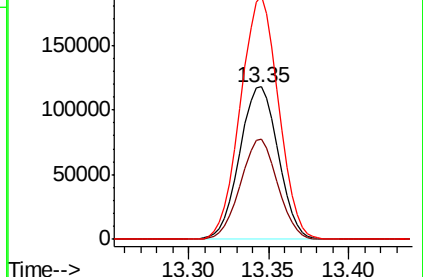
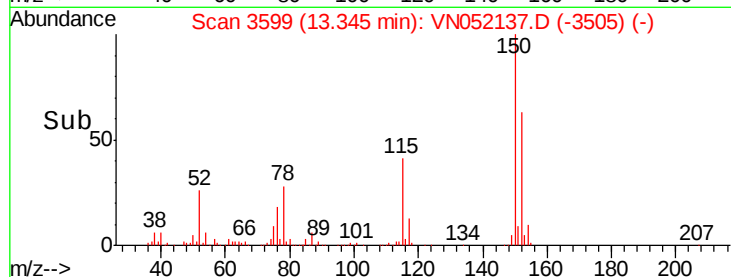
150 156.9 0.0 345.0



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#76

1,2,3-Trichloropropane

Concen: 37.757 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. -0.15 min

Lab File: VN052137.D

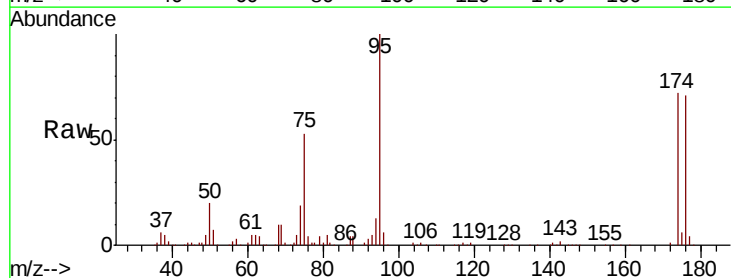
Acq: 2 Nov 2018 18:52

Tgt Ion: 75 Resp: 134279

Ion Ratio Lower Upper

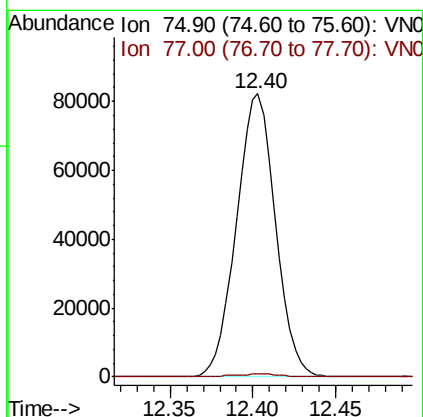
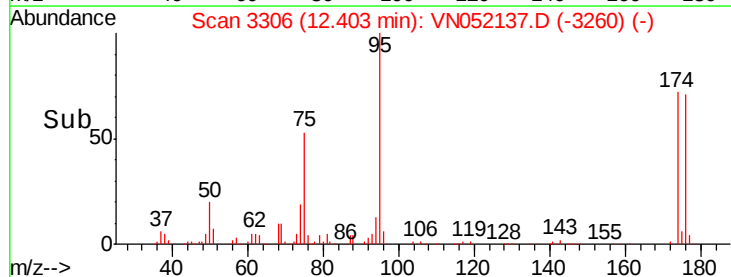
75 100

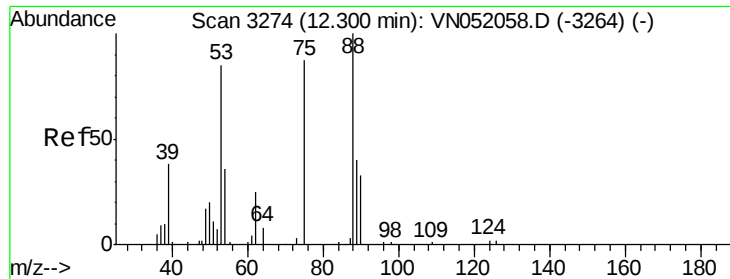
77 1.2 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): V

Ion 77.00 (76.70 to 77.70): V





#81

trans-1,4-Dichloro-2-butene

Concen: 125.322 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.10 min

Lab File: VN052137.D

Acq: 2 Nov 2018 18:52

Instrument :

MSVOA_N

ClientSampleId :

TP-5

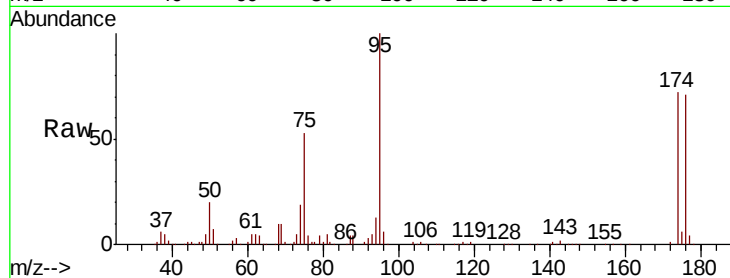
Tot Ion: 75 Resp: 134279

Ion Ratio Lower Upper

75 100

53 0.1 81.8 122.6#

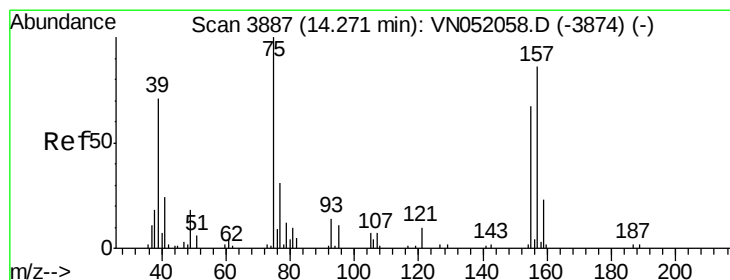
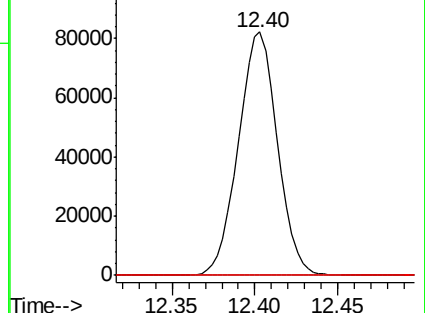
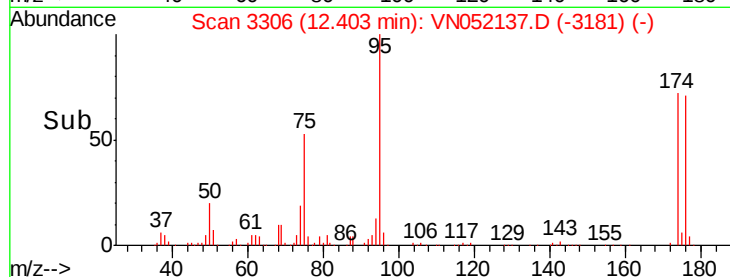
89 0.0 36.6 54.8#



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



#92

1,2-Dibromo-3-Chloropropane

Concen: 0.968 ug/l

RT: 14.31 min Scan# 3899

Delta R.T. 0.04 min

Lab File: VN052137.D

Acq: 2 Nov 2018 18:52

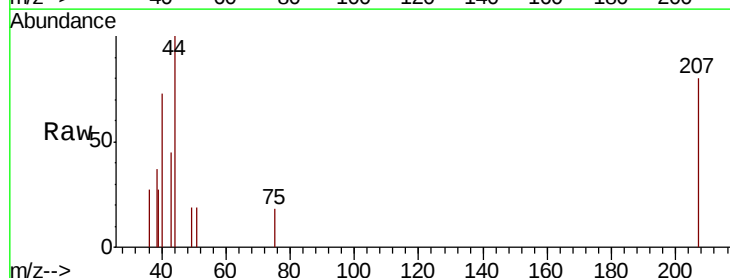
Tgt Ion: 75 Resp: 29

Ion Ratio Lower Upper

75 100

155 0.0 34.0 102.0#

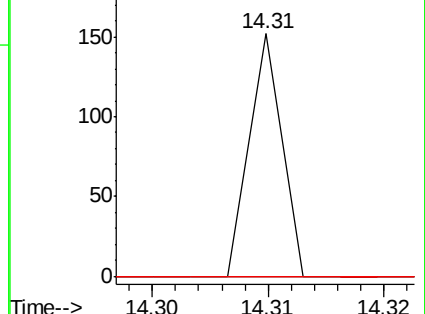
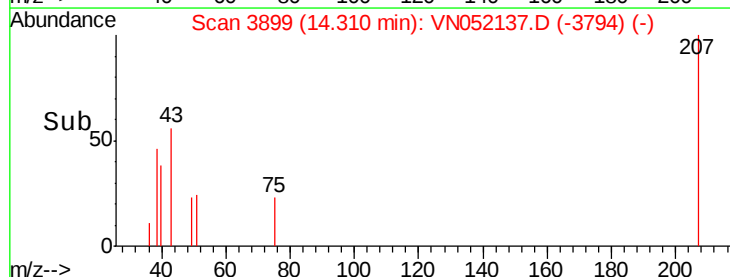
157 0.0 42.1 126.4#

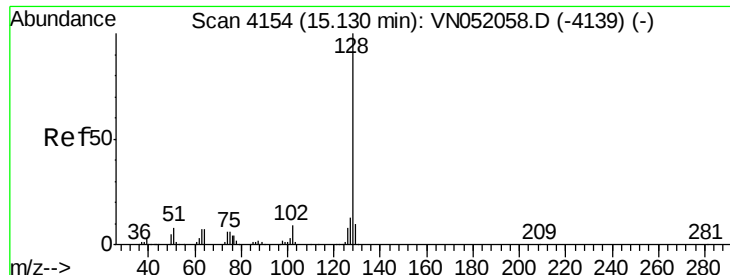


Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 154.80 (154.50 to 155.50): V

Ion 156.80 (156.50 to 157.50): V





#95

Naphthalene

Concen: 2.335 ug/l

RT: 15.14 min Scan# 4156

Delta R.T. 0.01 min

Lab File: VN052137.D

Acq: 2 Nov 2018 18:52

Instrument :

MSVOA_N

ClientSampleId :

TP-5

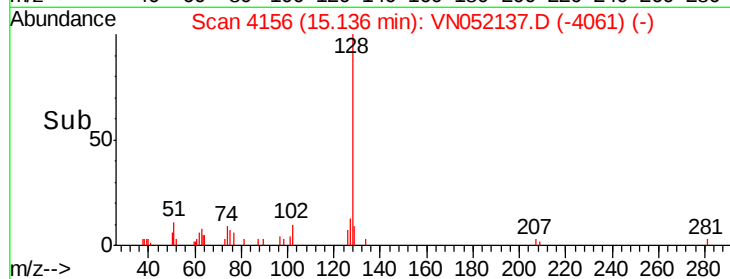
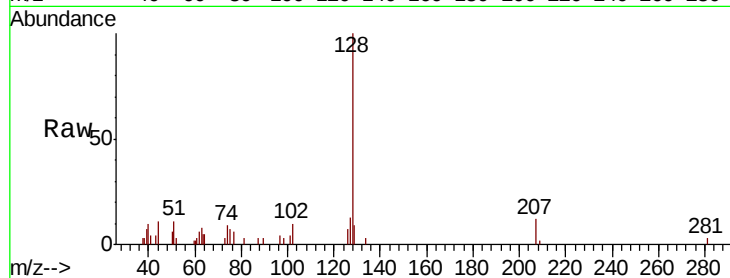
Tot Ion:128 Resp: 12997

Ion Ratio Lower Upper

128 100

127 13.9 10.5 15.7

129 6.8 8.6 12.8#



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

