

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN092018\
 Data File : VN051356.D
 Acq On : 20 Sep 2018 22:12
 Operator : MD\SY
 Sample : J4987-03
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 RBR200036

Quant Time: Sep 21 06:49:16 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N092018W.M
 Quant Title : SW846 8260
 QLast Update : Fri Sep 21 03:27:45 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	780367	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1163853	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	968581	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	379274	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	438940	51.90	ug/l	0.00
Spiked Amount			Recovery	=	103.80%	
35) Dibromofluoromethane	7.59	113	429602	45.68	ug/l	0.00
Spiked Amount			Recovery	=	91.36%	
50) Toluene-d8	10.09	98	1576849	43.61	ug/l	0.00
Spiked Amount			Recovery	=	87.22%	
62) 4-Bromofluorobenzene	12.40	95	429178	36.49	ug/l	0.00
Spiked Amount			Recovery	=	72.98%	

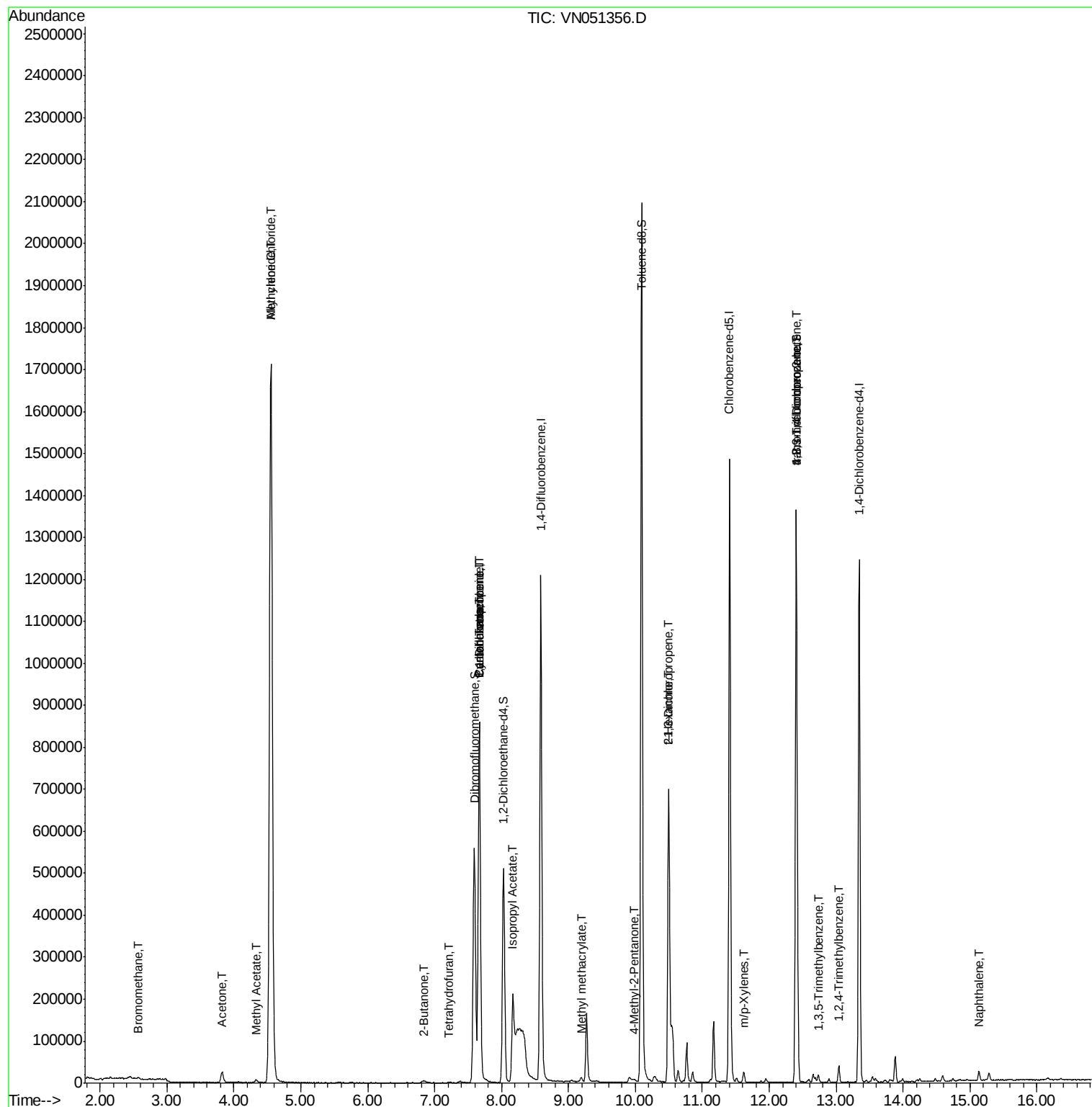
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	2.57	94	1407	0.22	ug/l	97
14) Allyl chloride	4.55	41	43941	4.27	ug/l #	26
16) Acetone	3.82	43	43467	25.02	ug/l	94
18) Methyl Acetate	4.33	43	13944	2.34	ug/l	95
20) Methylene Chloride	4.55	84	1396024	160.57	ug/l	98
25) 2-Butanone	6.85	43	5304	2.19	ug/l #	85
29) Tetrahydrofuran	7.21	42	539	0.35	ug/l #	52
31) Cyclohexane	7.67	56	11709	0.86	ug/l #	1
36) 1,1-Dichloropropene	7.67	75	48677	4.09	ug/l #	47
38) Carbon Tetrachloride	7.67	117	65035	5.05	ug/l #	16
43) Isopropyl Acetate	8.17	43	262904	25.47	ug/l #	91
48) Methyl methacrylate	9.18	41	5931	1.13	ug/l #	14
51) 4-Methyl-2-Pentanone	9.99	43	2703	0.49	ug/l	92
53) t-1,3-Dichloropropene	10.49	75	7724	0.67	ug/l #	47
59) 2-Hexanone	10.50	43	1142	0.31	ug/l	83
68) m/p-Xylenes	11.62	106	8115	0.57	ug/l	98
76) 1,2,3-Trichloropropane	12.40	75	199547	36.43	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.73	105	8054	0.36	ug/l	95
81) trans-1,4-Dichloro-2-buten	12.40	75	199547	126.13	ug/l #	14
84) 1,2,4-Trimethylbenzene	13.04	105	22775	1.02	ug/l	100
95) Naphthalene	15.13	128	19633	1.95	ug/l	97

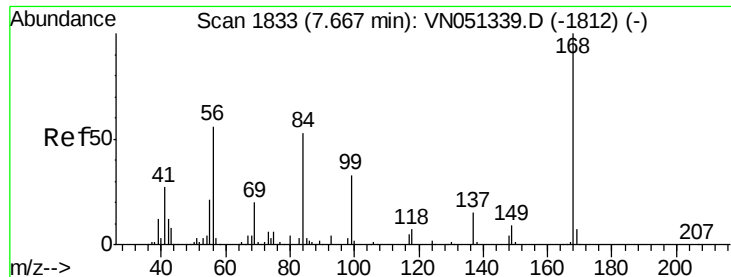
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 7.67 min Scan# 1834

Delta R.T. 0.00 min

Lab File: VN051356.D

Acq: 20 Sep 2018 22:12

Instrument :

MSVOA_N

ClientSampleId :

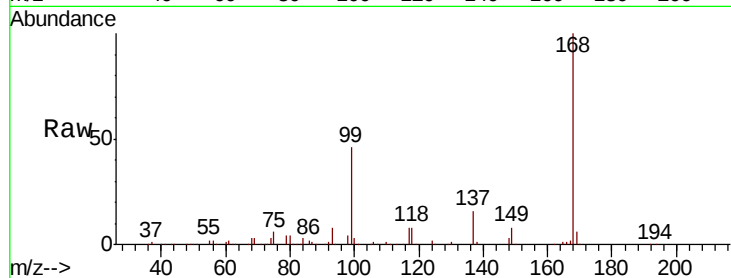
RBR200036

Tot Ion:168 Resp: 780367

Ion Ratio Lower Upper

168 100

99 45.7 37.1 55.7



Abundance Ion 167.90 (167.60 to 168.60): VN051339.D (-1812) (-)

Ion 98.90 (98.60 to 99.60): VN051339.D (-1812) (-)

7.67

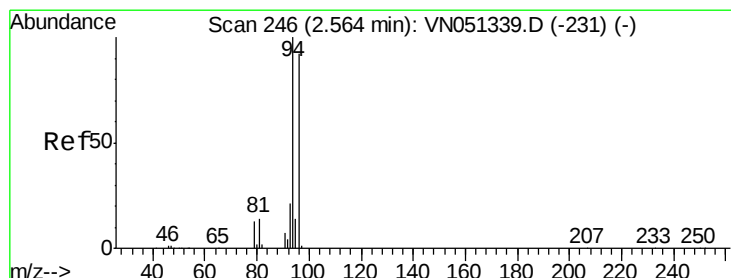
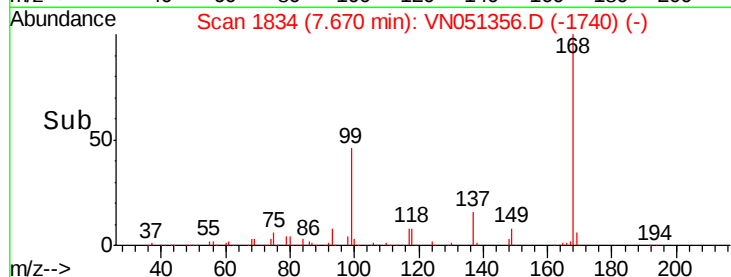
300000

200000

100000

0

Time-->



#5

Bromomethane

Concen: 0.22 ug/l

RT: 2.57 min Scan# 248

Delta R.T. 0.01 min

Lab File: VN051356.D

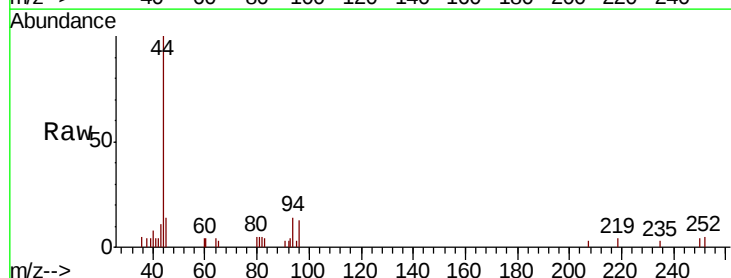
Acq: 20 Sep 2018 22:12

Tgt Ion: 94 Resp: 1407

Ion Ratio Lower Upper

94 100

96 95.6 73.8 110.8



Abundance Ion 93.90 (93.60 to 94.60): VN051339.D (-231) (-)

Ion 95.90 (95.60 to 96.60): VN051339.D (-231) (-)

2.57

800

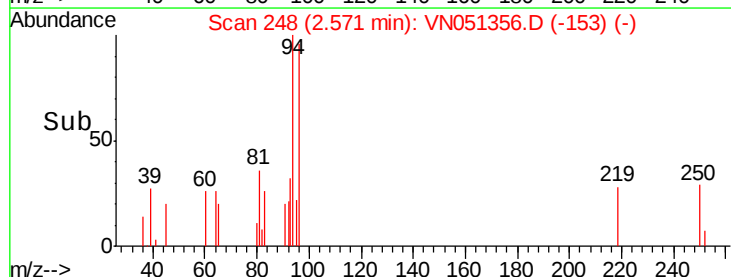
600

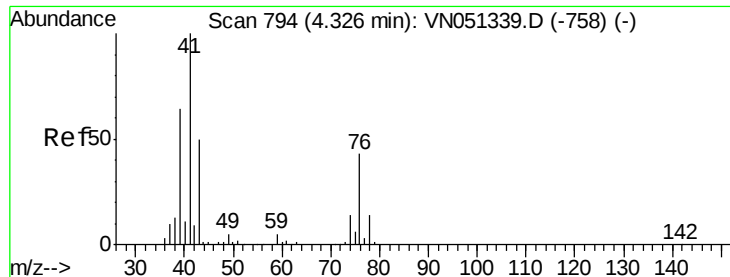
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200

0

Time-->

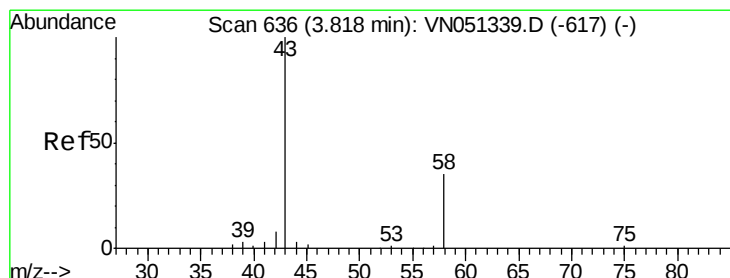
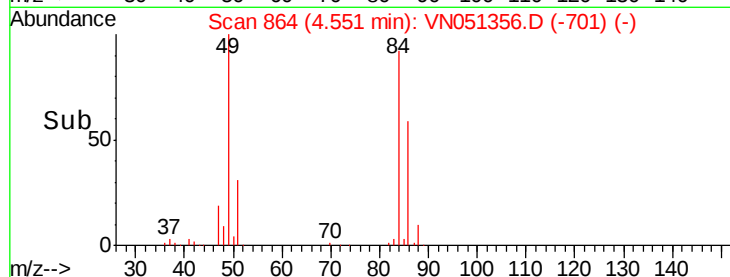
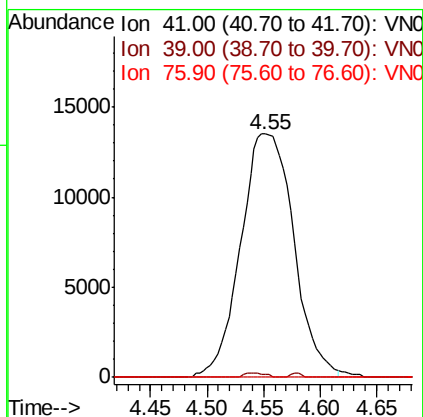
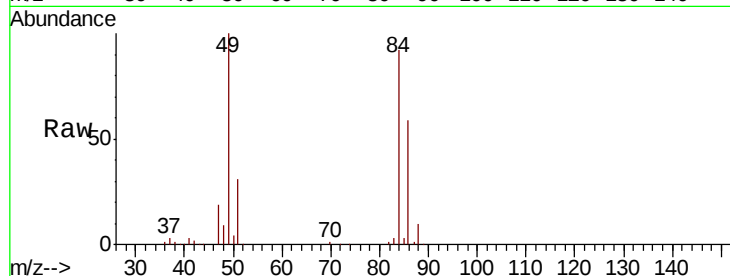




#14
Allvl chloride
Concen: 4.27 ug/l
RT: 4.55 min Scan# 864
Delta R.T. 0.22 min
Lab File: VN051356.D
Acq: 20 Sep 2018 22:12

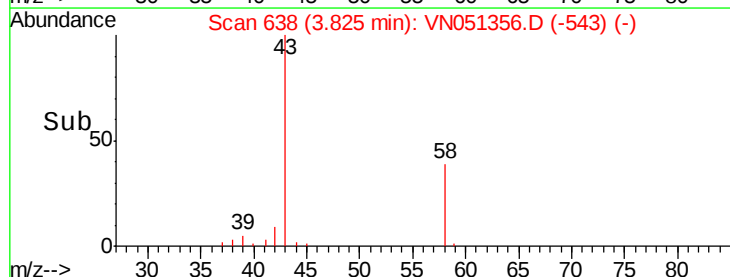
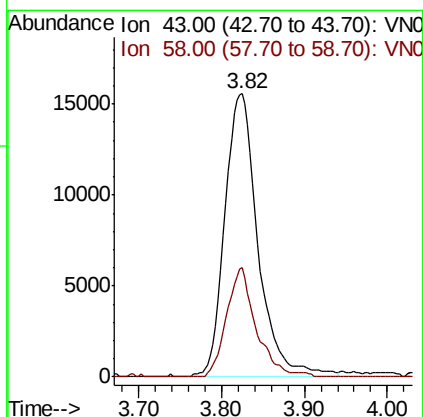
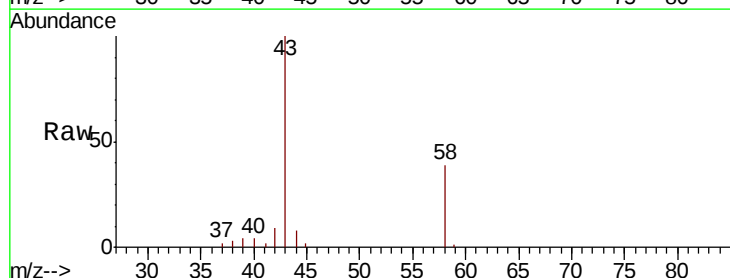
Instrument :
MSVOA_N
ClientSampled :
RBR200036

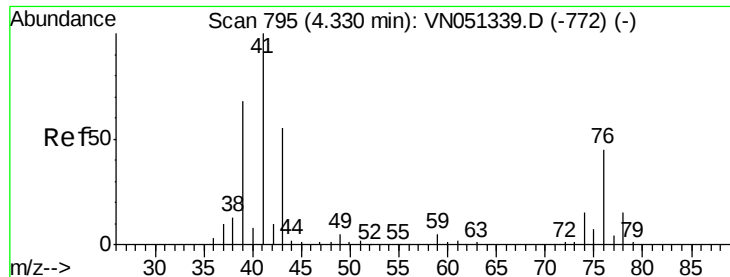
Tot Ion: 41 Resp: 43941
Ion Ratio Lower Upper
41 100
39 0.7 50.4 75.6#
76 0.0 32.4 48.6#



#16
Acetone
Concen: 25.02 ug/l
RT: 3.82 min Scan# 638
Delta R.T. 0.01 min
Lab File: VN051356.D
Acq: 20 Sep 2018 22:12

Tgt Ion: 43 Resp: 43467
Ion Ratio Lower Upper
43 100
58 38.7 28.3 42.5

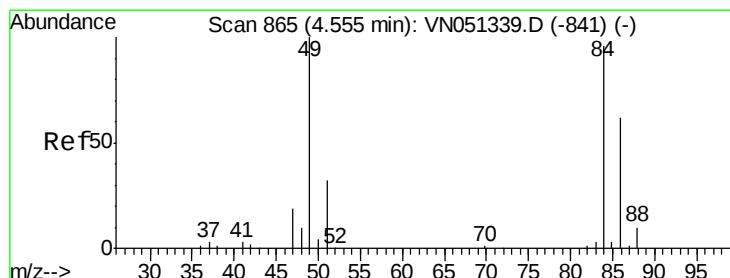
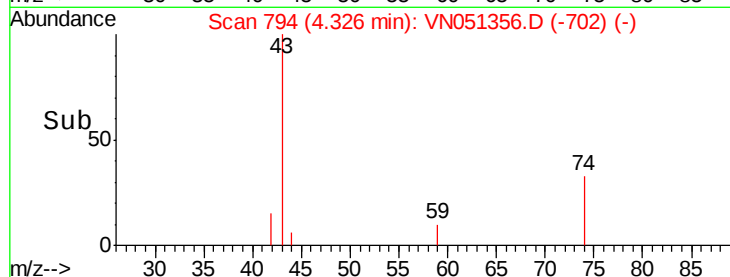
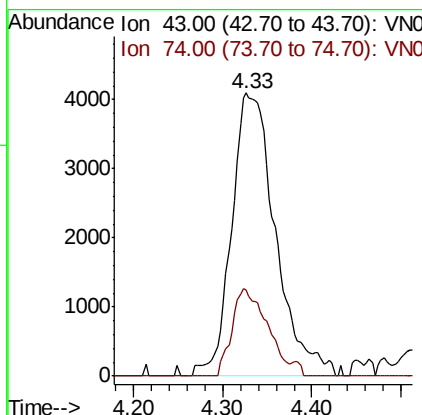
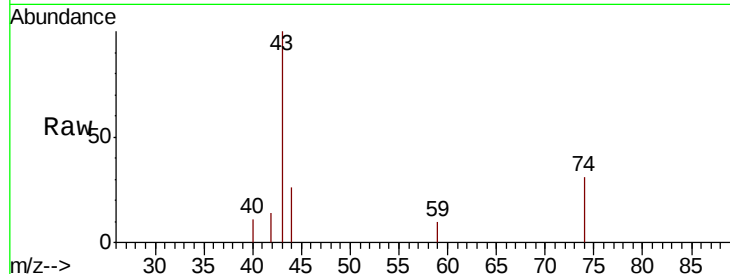




#18
Methvl Acetate
Concen: 2.34 ug/l
RT: 4.33 min Scan# 794
Delta R.T. -0.00 min
Lab File: VN051356.D
Acq: 20 Sep 2018 22:12

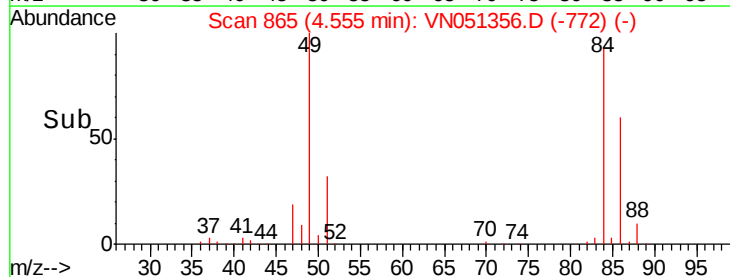
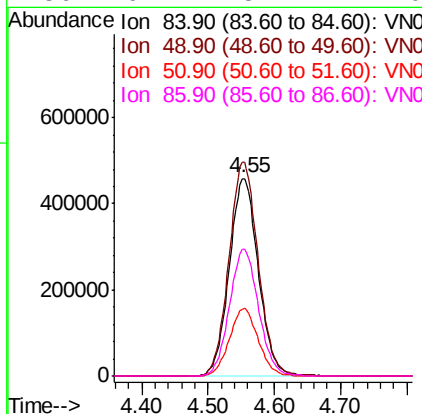
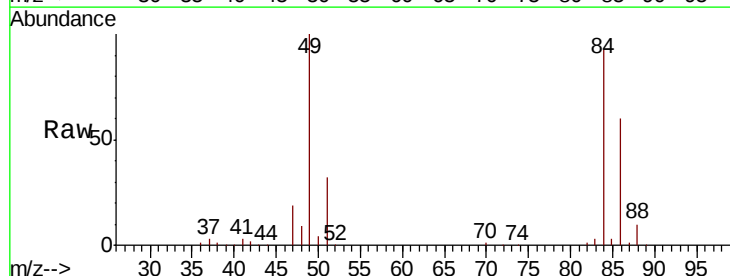
Instrument :
MSVOA_N
ClientSampleId :
RBR200036

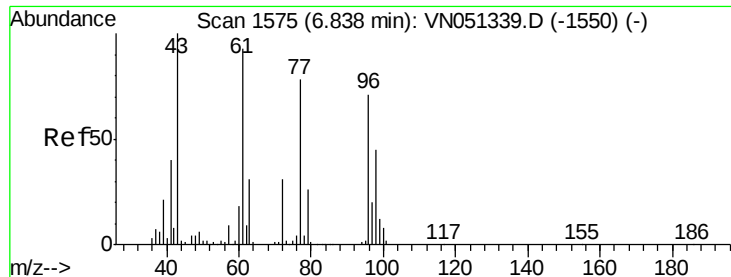
Tot Ion: 43 Resp: 13944
Ion Ratio Lower Upper
43 100
74 24.7 21.7 32.5



#20
Methylene Chloride
Concen: 160.57 ug/l
RT: 4.55 min Scan# 865
Delta R.T. -0.00 min
Lab File: VN051356.D
Acq: 20 Sep 2018 22:12

Tgt Ion: 84 Resp: 1396024
Ion Ratio Lower Upper
84 100
49 107.8 83.2 124.8
51 34.2 26.4 39.6
86 64.2 51.4 77.0

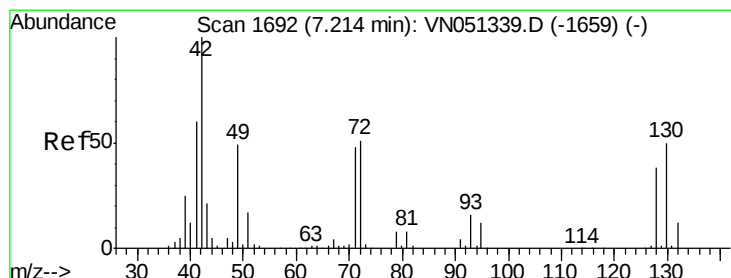
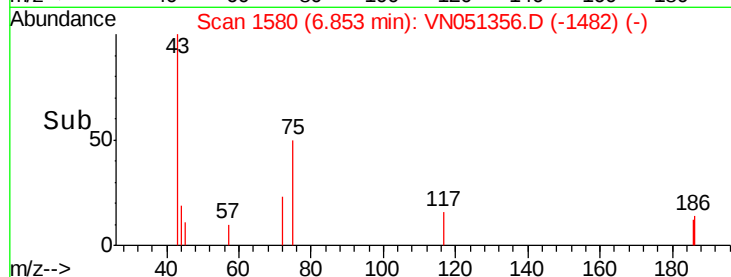
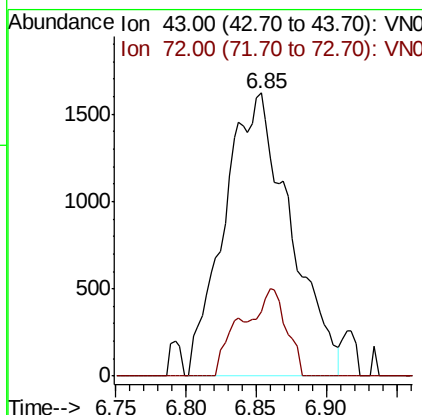
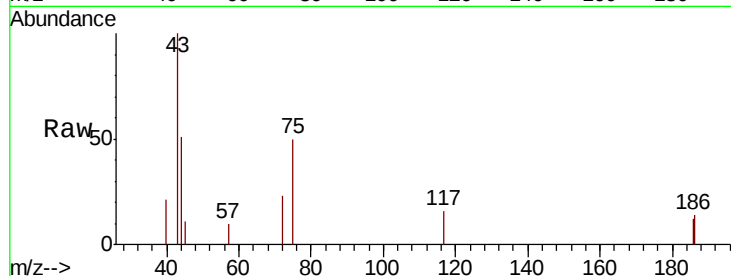




#25
 2-Butanone
 Concen: 2.19 ug/l
 RT: 6.85 min Scan# 1580
 Delta R.T. 0.02 min
 Lab File: VN051356.D
 Acq: 20 Sep 2018 22:12

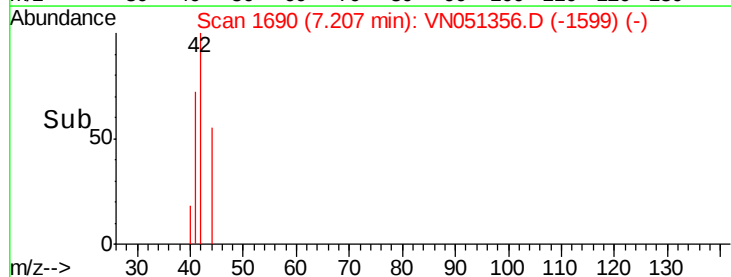
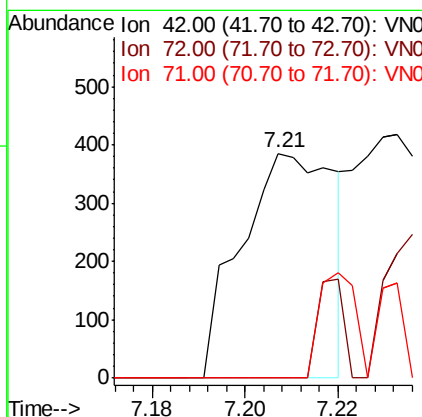
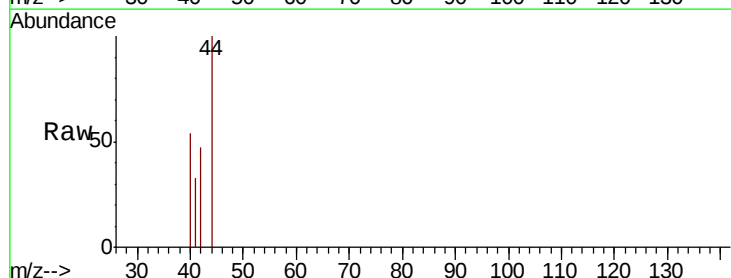
Instrument :
 MSVOA_N
 ClientSampleId :
 RBR200036

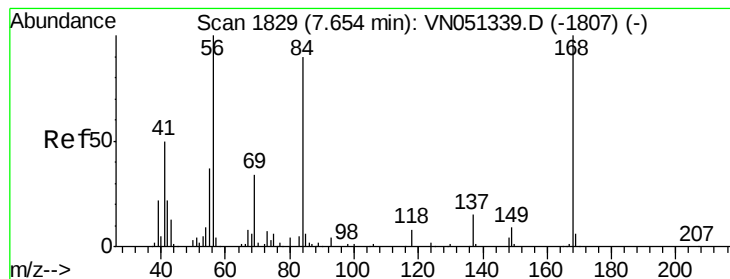
Tot Ion: 43 Resp: 5304
 Ion Ratio Lower Upper
 43 100
 72 22.8 24.7 37.1#



#29
 Tetrahydrofuran
 Concen: 0.35 ug/l
 RT: 7.21 min Scan# 1690
 Delta R.T. -0.01 min
 Lab File: VN051356.D
 Acq: 20 Sep 2018 22:12

Tgt Ion: 42 Resp: 539
 Ion Ratio Lower Upper
 42 100
 72 12.1 39.0 58.4#
 71 18.0 36.5 54.7#





#31

Cyclohexane

Concen: 0.86 ug/l

RT: 7.67 min Scan# 1834

Delta R.T. 0.02 min

Lab File: VN051356.D

Acq: 20 Sep 2018 22:12

Instrument :

MSVOA_N

ClientSampled :

RBR200036

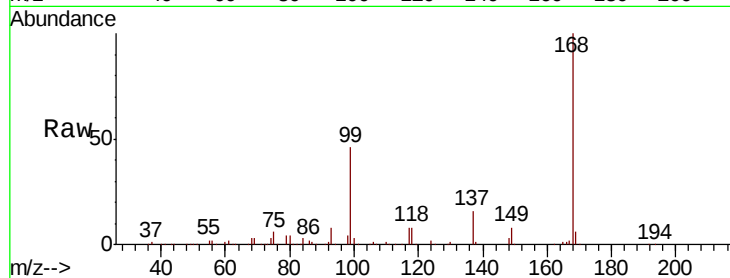
Tot Ion: 56 Resp: 11709

Ion Ratio Lower Upper

56 100

69 199.1 27.3 40.9#

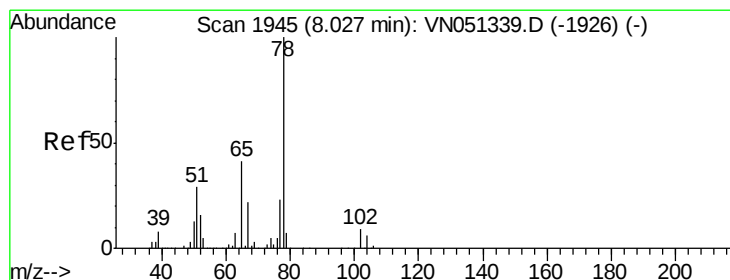
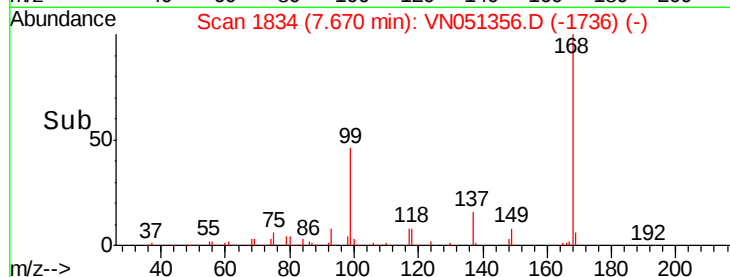
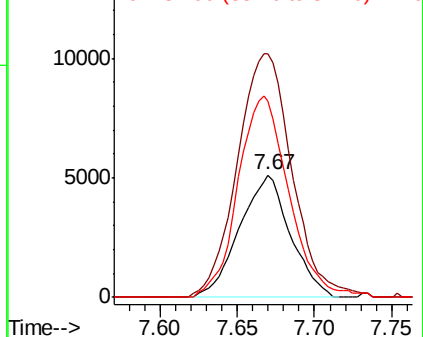
84 160.4 72.2 108.2#



Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 84.00 (83.70 to 84.70): VN0



#33

1,2-Dichloroethane-d4

Concen: 51.90 ug/l

RT: 8.03 min Scan# 1946

Delta R.T. 0.00 min

Lab File: VN051356.D

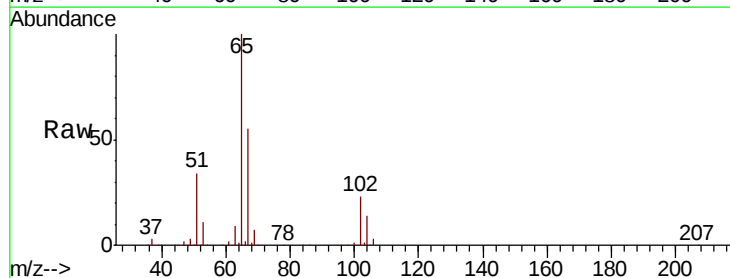
Acq: 20 Sep 2018 22:12

Tgt Ion: 65 Resp: 438940

Ion Ratio Lower Upper

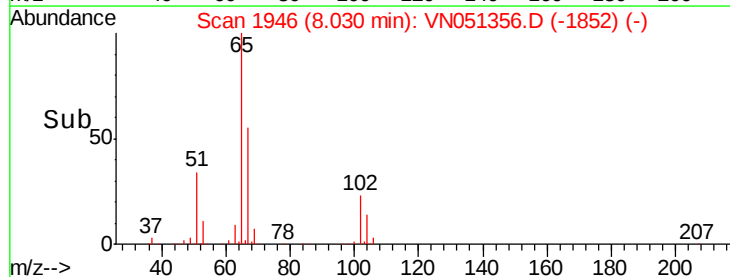
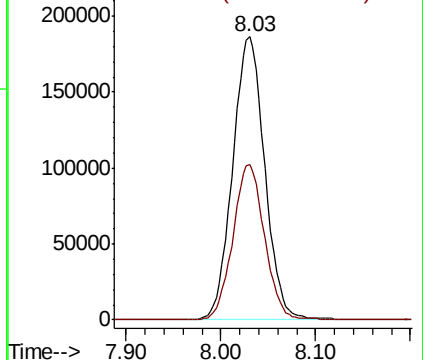
65 100

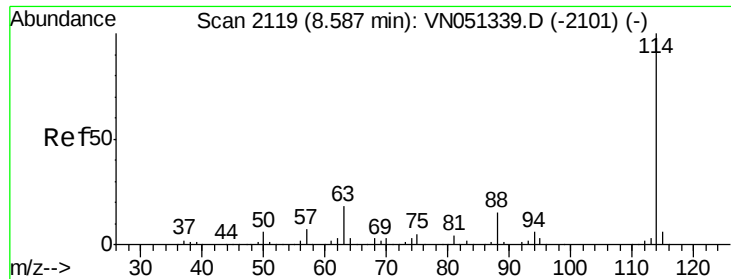
67 54.2 0.0 108.8



Abundance Ion 64.90 (64.60 to 65.60): VN0

Ion 66.90 (66.60 to 67.60): VN0

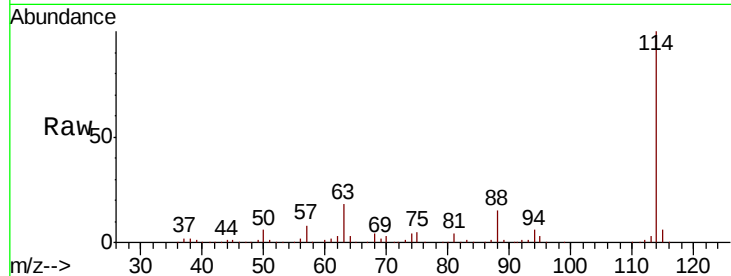




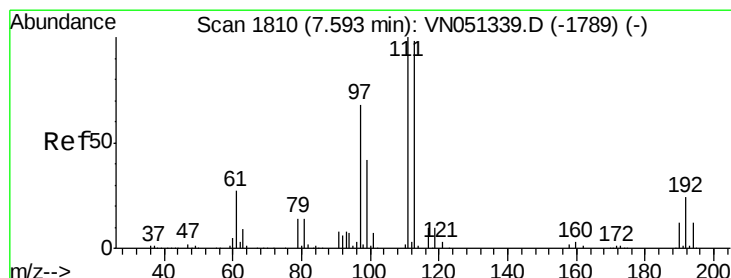
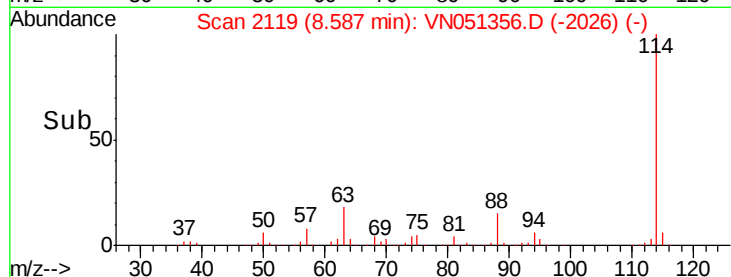
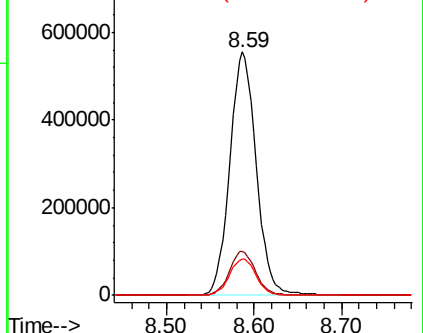
#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. -0.00 min
 Lab File: VN051356.D
 Acq: 20 Sep 2018 22:12

Instrument :
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 ClientSampleId :
 RBR200036

Tot Ion:114 Resp: 1163853
 Ion Ratio Lower Upper
 114 100
 63 18.2 0.0 36.6
 88 15.1 0.0 29.8

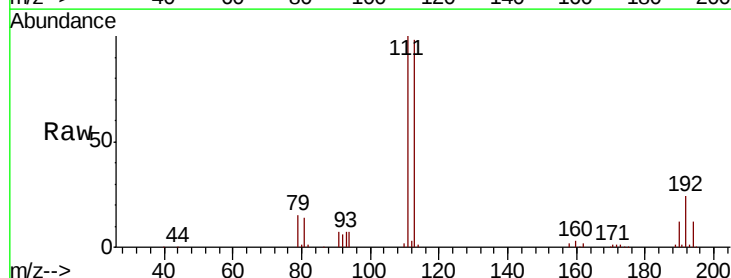


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VN
 Ion 87.90 (87.60 to 88.60): VN

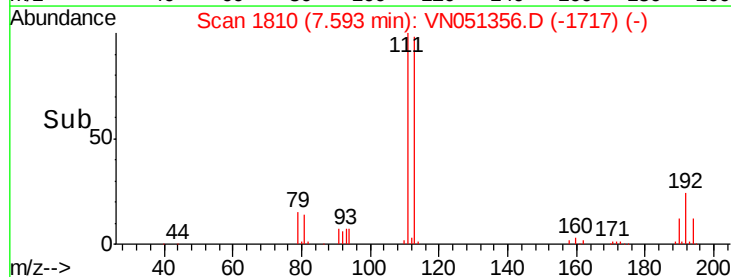
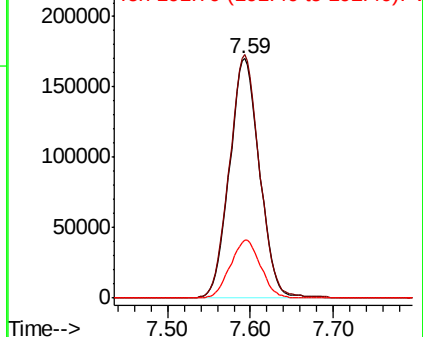


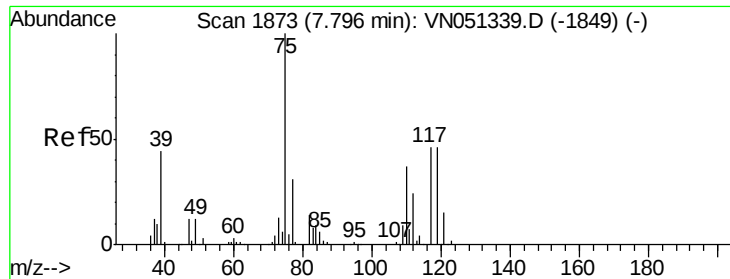
#35
 Dibromofluoromethane
 Concen: 45.68 ug/l
 RT: 7.59 min Scan# 1810
 Delta R.T. -0.00 min
 Lab File: VN051356.D
 Acq: 20 Sep 2018 22:12

Tgt Ion:113 Resp: 429602
 Ion Ratio Lower Upper
 113 100
 111 101.7 81.9 122.9
 192 24.4 19.8 29.6



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

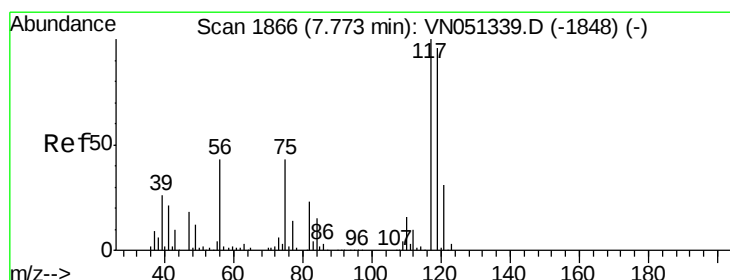
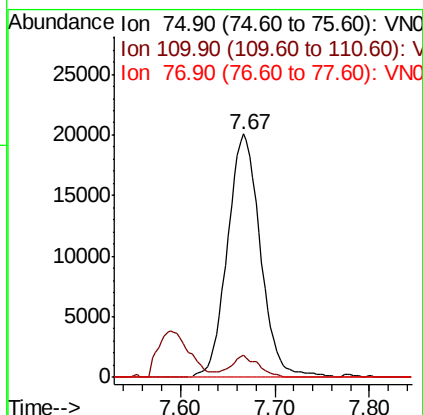
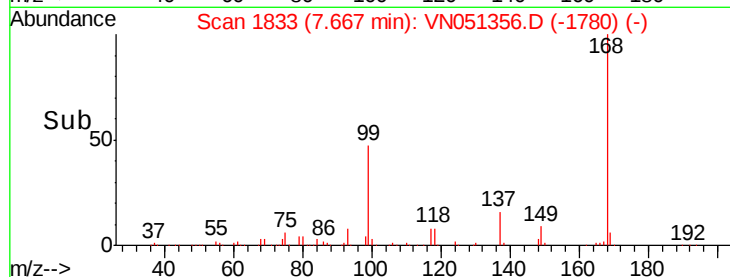
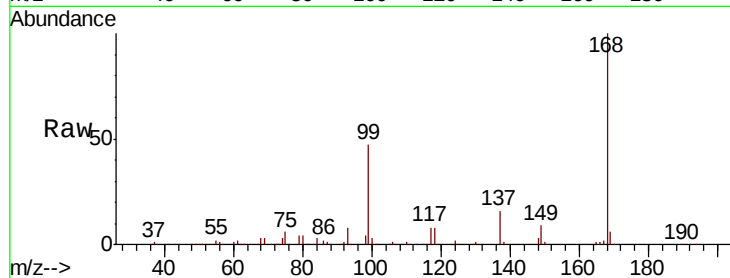




#36
 1,1-Dichloropropene
 Concen: 4.09 ug/l
 RT: 7.67 min Scan# 1833
 Delta R.T. -0.13 min
 Lab File: VN051356.D
 Acq: 20 Sep 2018 22:12

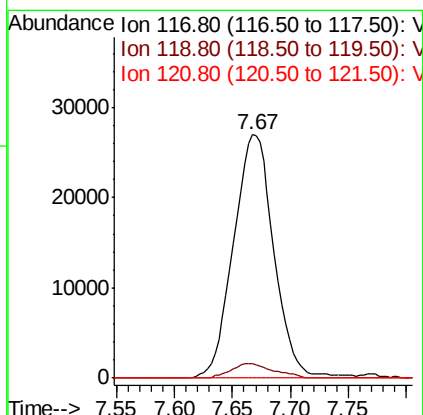
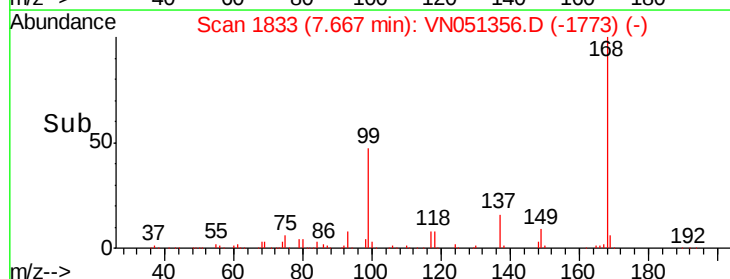
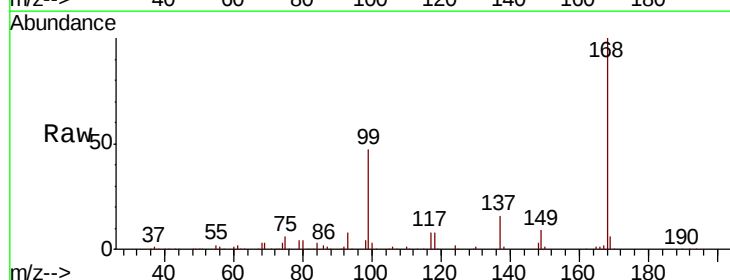
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 RBR200036

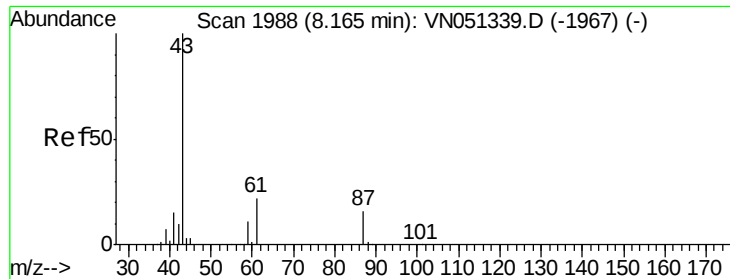
Tot Ion: 75 Resp: 48677
 Ion Ratio Lower Upper
 75 100
 110 7.6 18.9 56.5#
 77 0.0 25.4 38.2#



#38
 Carbon Tetrachloride
 Concen: 5.05 ug/l
 RT: 7.67 min Scan# 1833
 Delta R.T. -0.11 min
 Lab File: VN051356.D
 Acq: 20 Sep 2018 22:12

Tgt Ion: 117 Resp: 65035
 Ion Ratio Lower Upper
 117 100
 119 5.7 77.0 115.4#
 121 0.0 25.0 37.4#



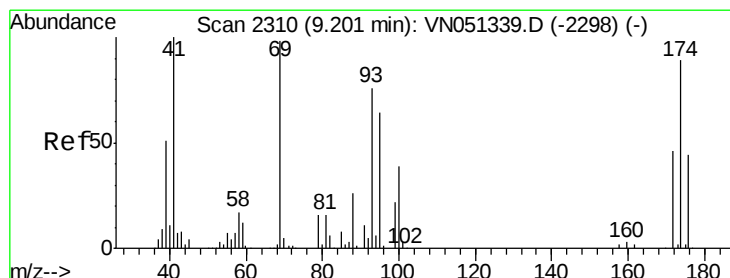
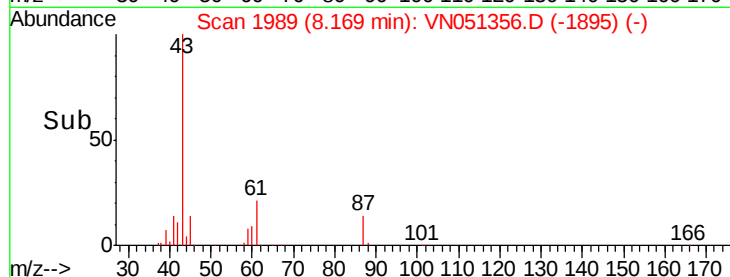
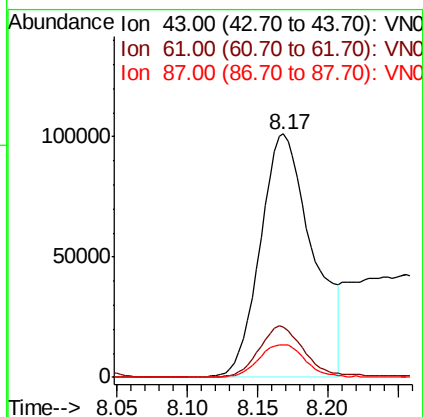
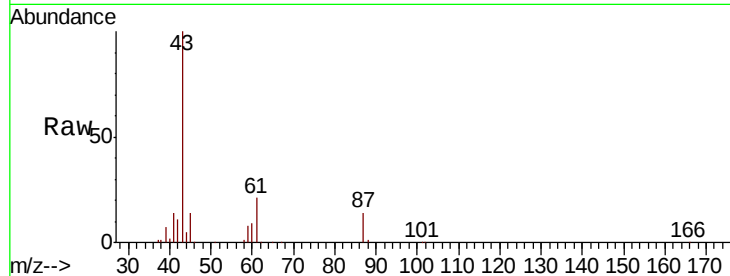


#43

Isopropyl Acetate
 Concen: 25.47 ug/l
 RT: 8.17 min Scan# 1989
 Delta R.T. 0.00 min
 Lab File: VN051356.D
 Acq: 20 Sep 2018 22:12

Instrument :
 MSVOA_N
 ClientSampleId :
 RBR200036

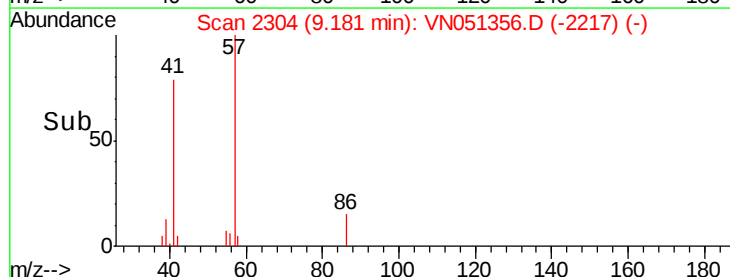
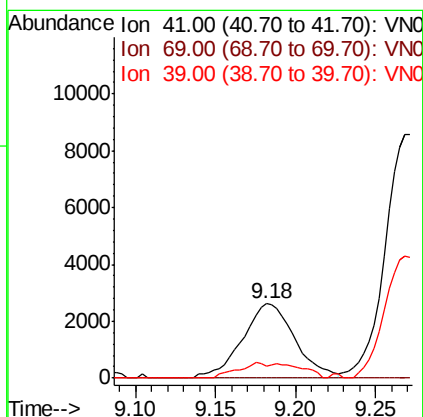
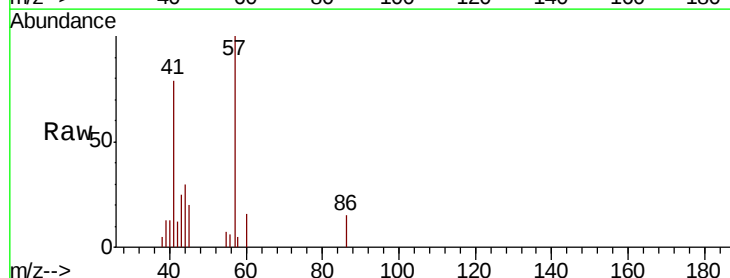
Tot Ion: 43 Resp: 262904
 Ion Ratio Lower Upper
 43 100
 61 18.2 18.1 27.1
 87 12.0 12.8 19.2#

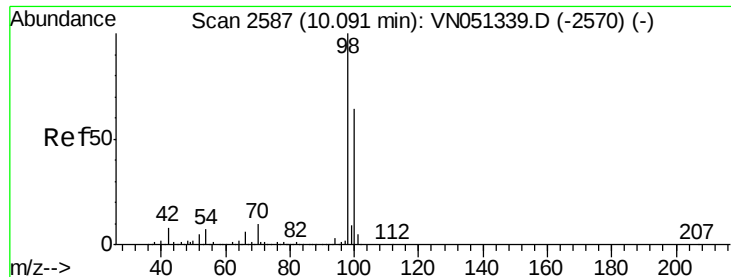


#48

Methyl methacrylate
 Concen: 1.13 ug/l
 RT: 9.18 min Scan# 2304
 Delta R.T. -0.02 min
 Lab File: VN051356.D
 Acq: 20 Sep 2018 22:12

Tgt Ion: 41 Resp: 5931
 Ion Ratio Lower Upper
 41 100
 69 0.0 79.4 119.0#
 39 11.0 43.0 64.6#





#50

Toluene-d8

Concen: 43.61 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. -0.00 min

Lab File: VN051356.D

Acq: 20 Sep 2018 22:12

Instrument :

MSVOA_N

ClientSampleId :

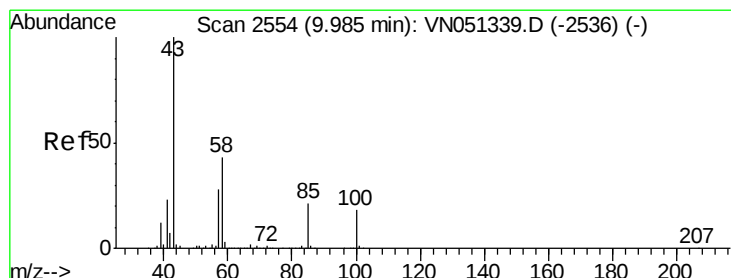
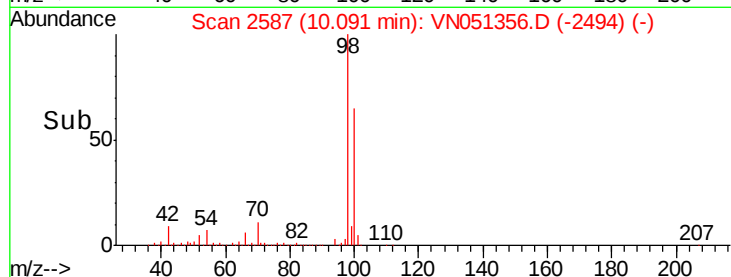
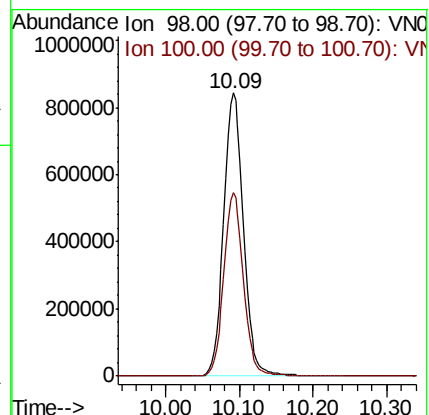
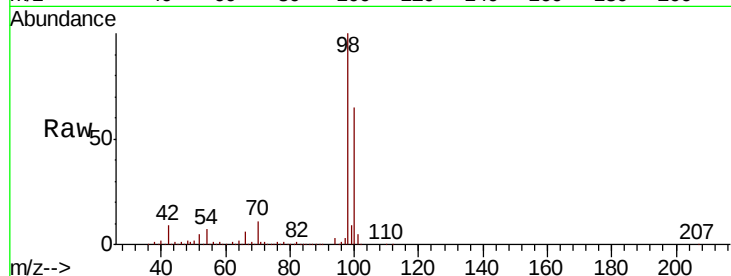
RBR200036

Tot Ion: 98 Resp: 1576849

Ion Ratio Lower Upper

98 100

100 64.3 51.3 76.9



#51

4-Methyl-2-Pentanone

Concen: 0.49 ug/l

RT: 9.99 min Scan# 2554

Delta R.T. -0.00 min

Lab File: VN051356.D

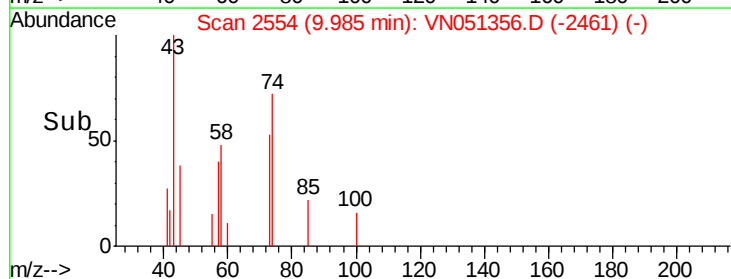
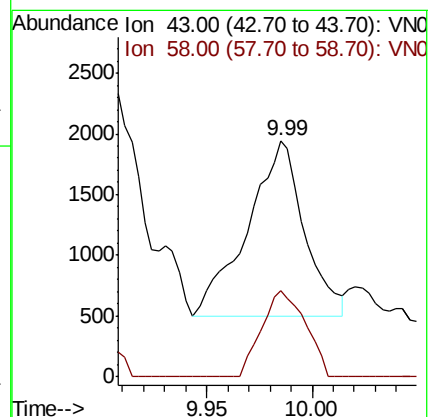
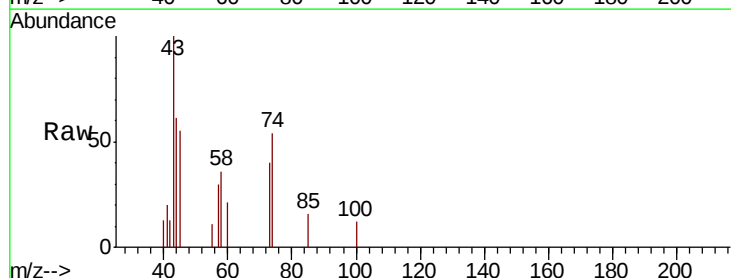
Acq: 20 Sep 2018 22:12

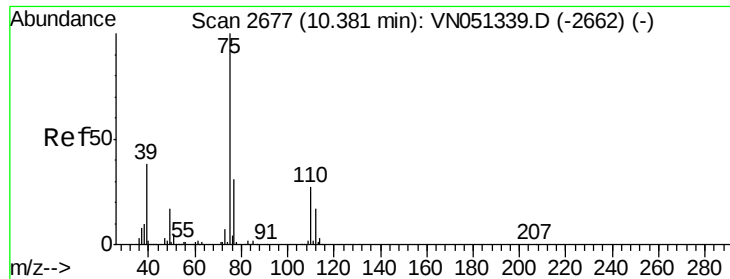
Tgt Ion: 43 Resp: 2703

Ion Ratio Lower Upper

43 100

58 37.8 34.2 51.4





#53

t-1,3-Dichloropropene

Concen: 0.67 ug/l

RT: 10.49 min Scan# 2712

Delta R.T. 0.11 min

Lab File: VN051356.D

Acq: 20 Sep 2018 22:12

Instrument :

MSVOA_N

ClientSampleId :

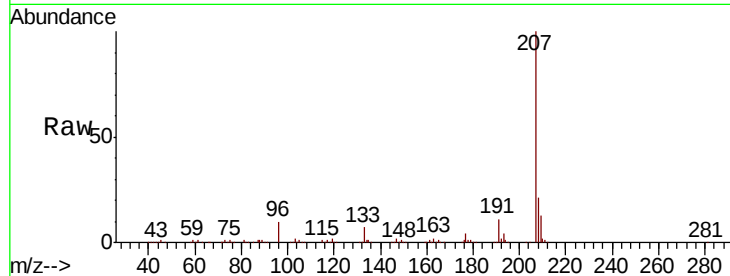
RBR200036

Tot Ion: 75 Resp: 7724

Ion Ratio Lower Upper

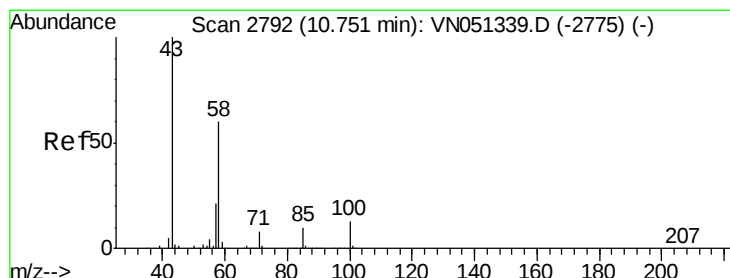
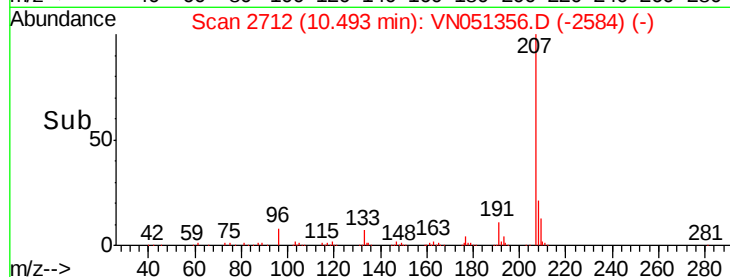
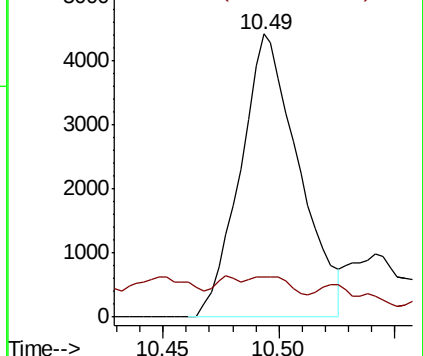
75 100

77 2.6 25.5 38.3#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 76.90 (76.60 to 77.60): VN0



#59

2-Hexanone

Concen: 0.31 ug/l

RT: 10.50 min Scan# 2713

Delta R.T. -0.25 min

Lab File: VN051356.D

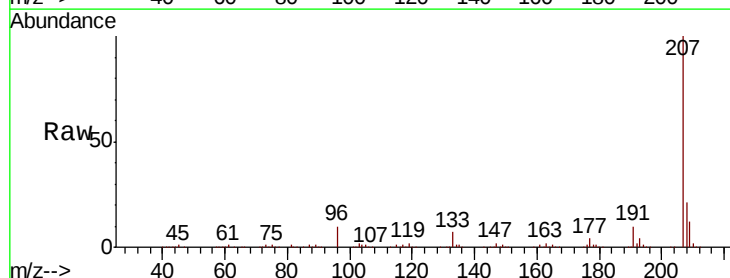
Acq: 20 Sep 2018 22:12

Tgt Ion: 43 Resp: 1142

Ion Ratio Lower Upper

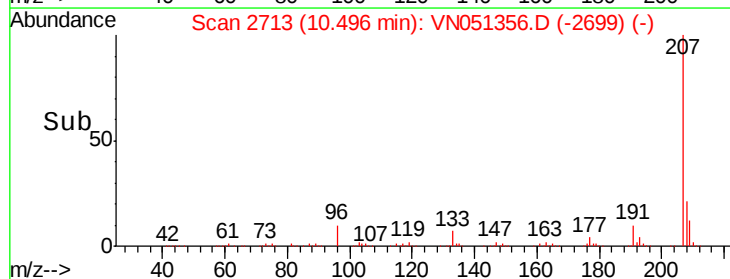
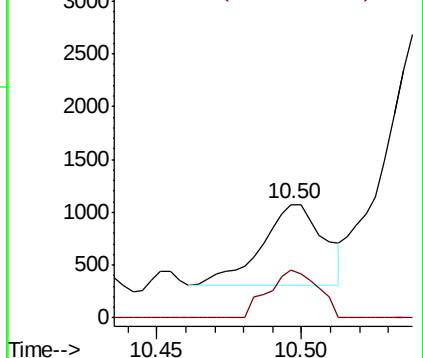
43 100

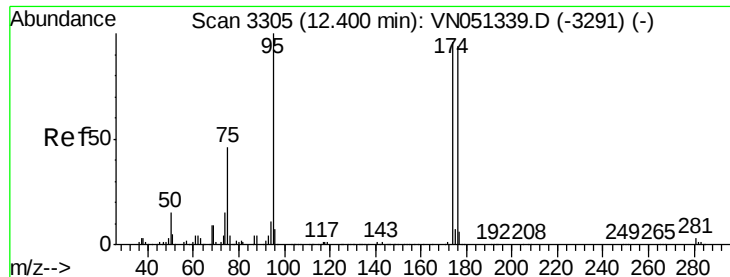
58 47.0 29.9 89.8



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

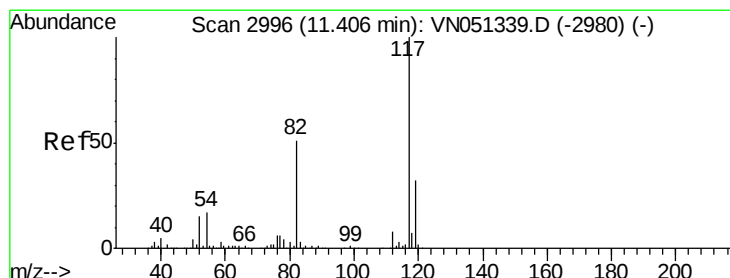
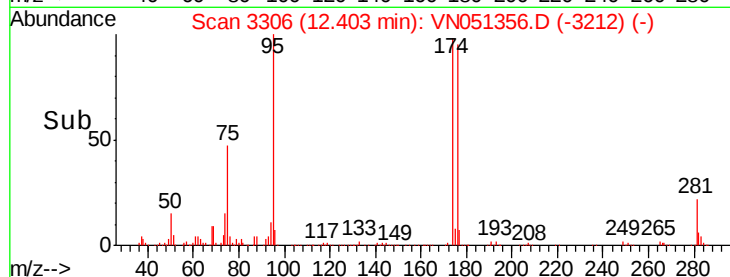
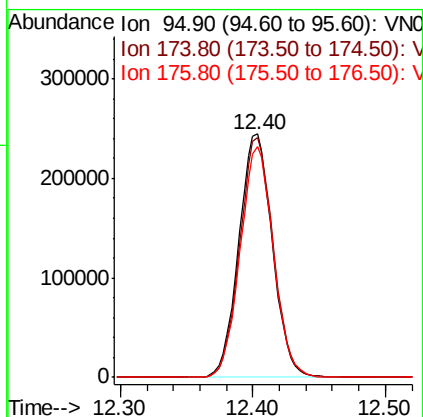
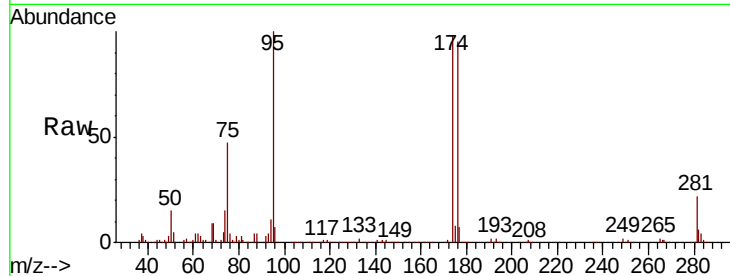




#62
4-Bromofluorobenzene
Concen: 36.49 ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.00 min
Lab File: VN051356.D
Acq: 20 Sep 2018 22:12

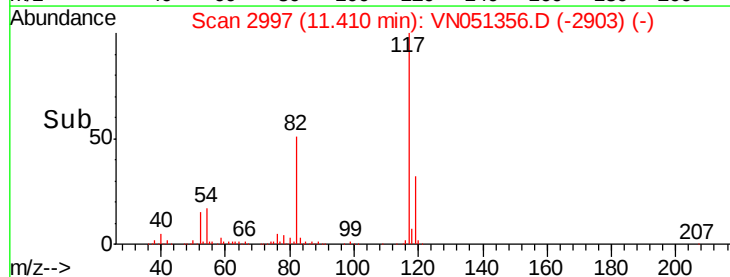
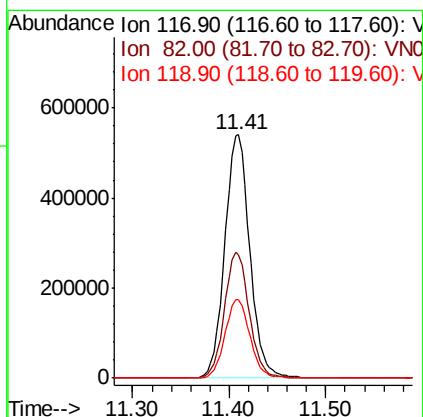
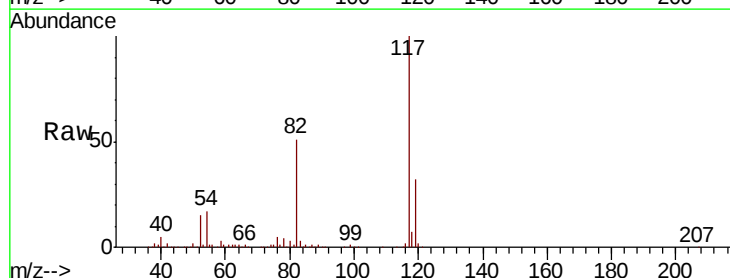
Instrument :
MSVOA_N
ClientSampleId :
RBR200036

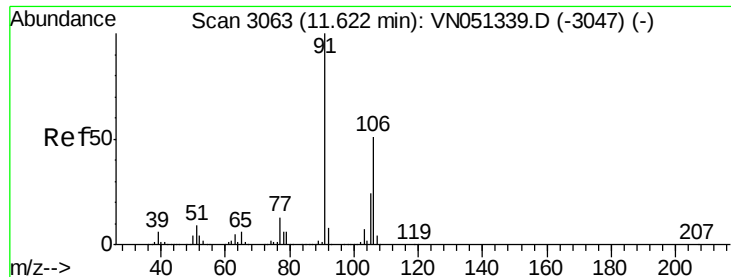
Tot Ion: 95 Resp: 429178
Ion Ratio Lower Upper
95 100
174 98.2 0.0 194.6
176 93.9 0.0 189.6



#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 11.41 min Scan# 2997
Delta R.T. 0.00 min
Lab File: VN051356.D
Acq: 20 Sep 2018 22:12

Tgt Ion: 117 Resp: 968581
Ion Ratio Lower Upper
117 100
82 50.9 40.7 61.1
119 32.2 25.3 37.9





#68

m/p-Xvlenes

Concen: 0.57 ug/l

RT: 11.62 min Scan# 3062

Delta R.T. -0.00 min

Lab File: VN051356.D

Acq: 20 Sep 2018 22:12

Instrument :

MSVOA_N

ClientSampleId :

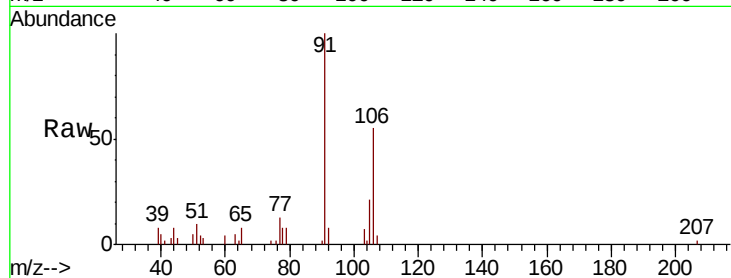
RBR200036

Tot Ion:106 Resp: 8115

Ion Ratio Lower Upper

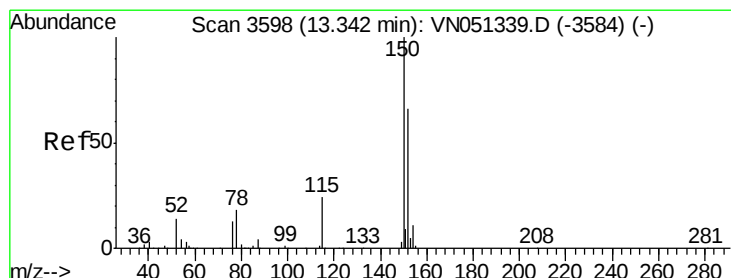
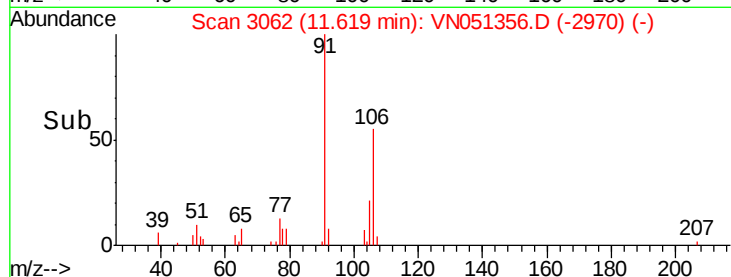
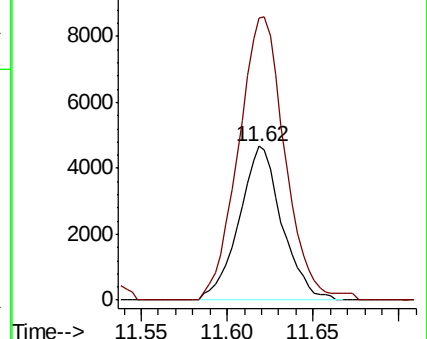
106 100

91 198.1 156.5 234.7



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VN



#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 13.35 min Scan# 3599

Delta R.T. 0.00 min

Lab File: VN051356.D

Acq: 20 Sep 2018 22:12

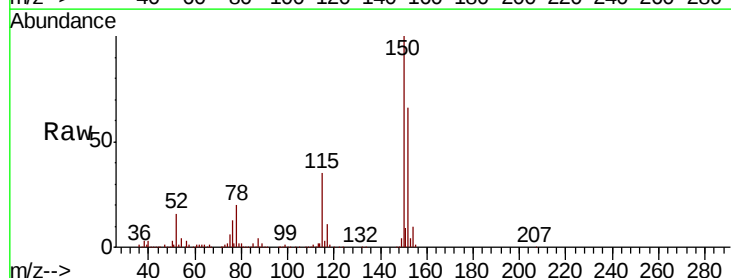
Tgt Ion:152 Resp: 379274

Ion Ratio Lower Upper

152 100

115 54.0 26.9 80.7

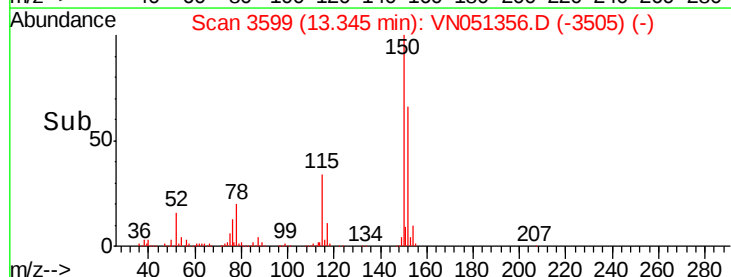
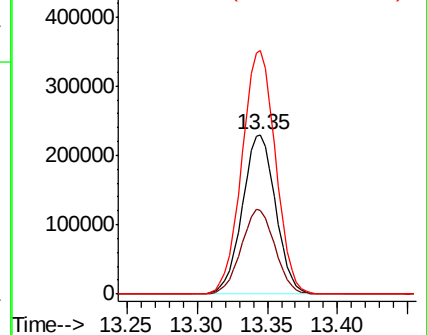
150 154.9 0.0 345.0

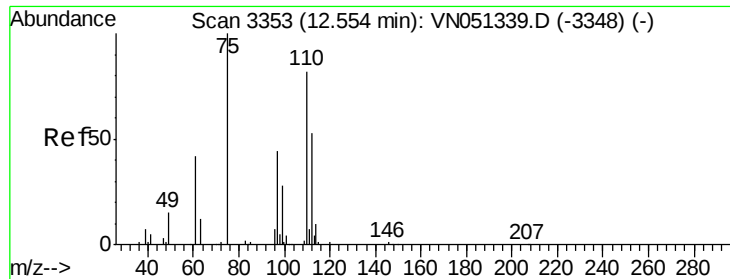


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V

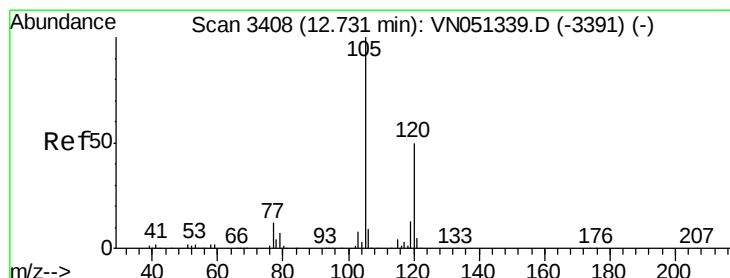
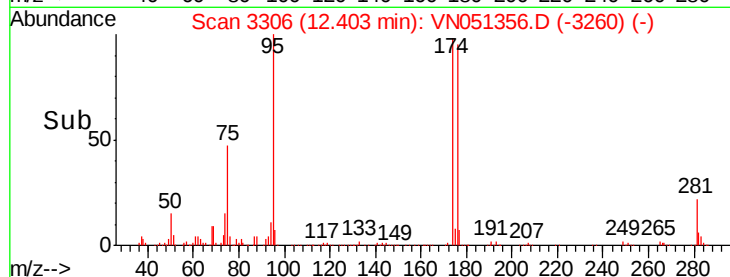
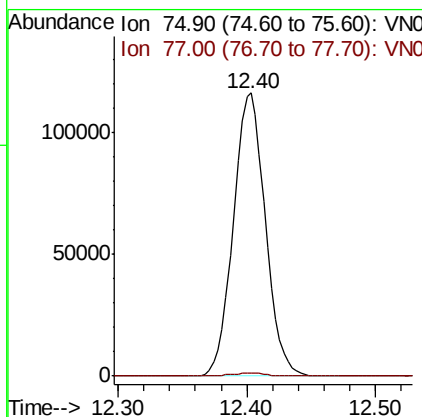
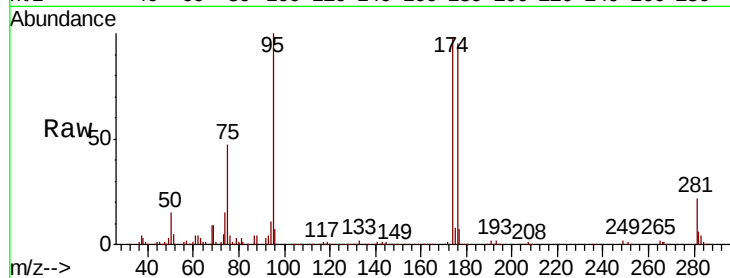




#76
 1,2,3-Trichloropropane
 Concen: 36.43 ug/l
 RT: 12.40 min Scan# 3306
 Delta R.T. -0.15 min
 Lab File: VN051356.D
 Acq: 20 Sep 2018 22:12

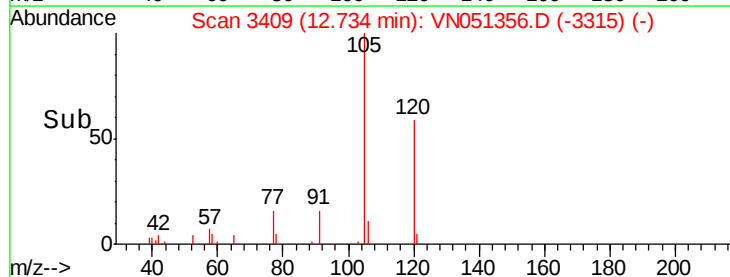
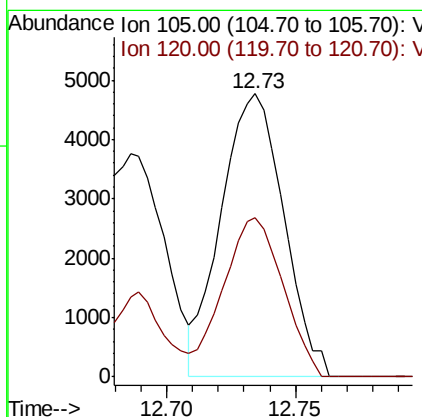
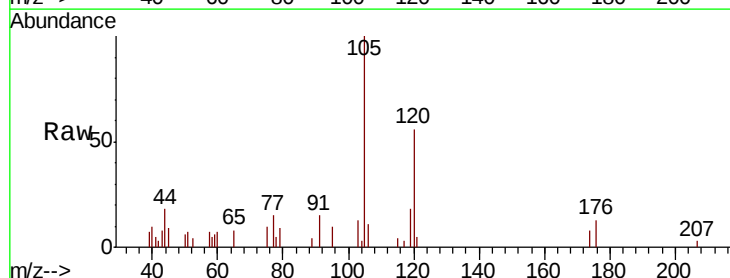
Instrument :
 MSVOA_N
 ClientSampleId :
 RBR200036

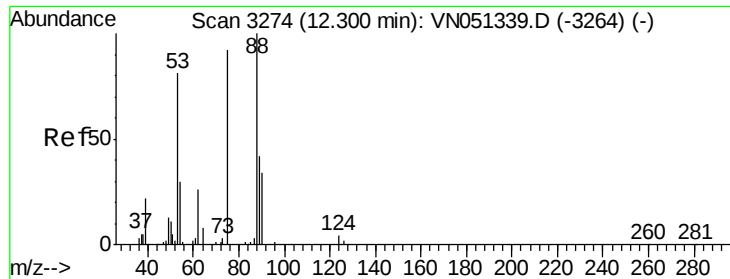
Tot Ion: 75 Resp: 199547
 Ion Ratio Lower Upper
 75 100
 77 1.2 0.0 0.0#



#80
 1,3,5-Trimethylbenzene
 Concen: 0.36 ug/l
 RT: 12.73 min Scan# 3409
 Delta R.T. 0.00 min
 Lab File: VN051356.D
 Acq: 20 Sep 2018 22:12

Tgt Ion: 105 Resp: 8054
 Ion Ratio Lower Upper
 105 100
 120 53.7 25.2 75.6





#81

trans-1,4-Dichloro-2-butene

Concen: 126.13 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.10 min

Lab File: VN051356.D

Acq: 20 Sep 2018 22:12

Instrument :

MSVOA_N

ClientSampleId :

RBR200036

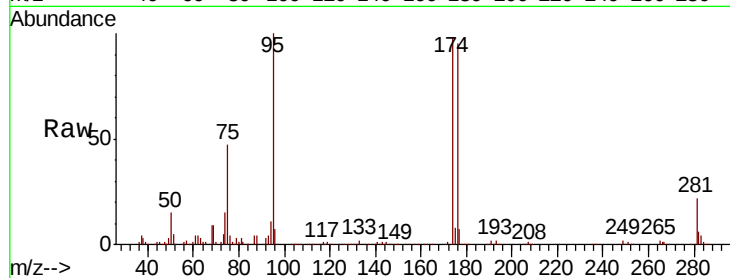
Tot Ion: 75 Resp: 199547

Ion Ratio Lower Upper

75 100

53 0.1 69.9 104.9#

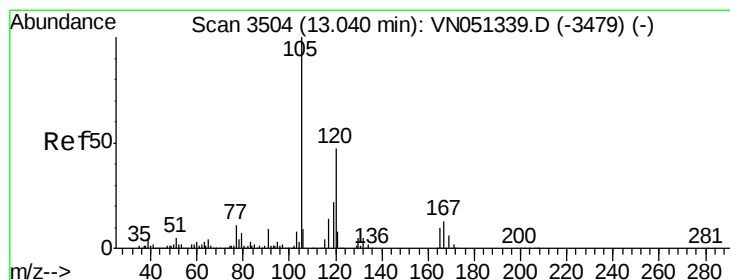
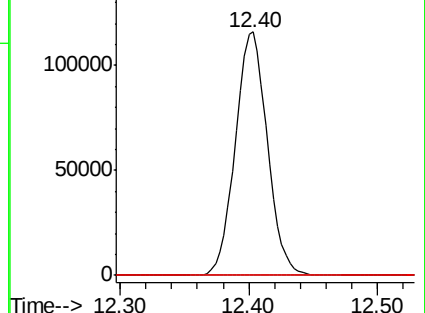
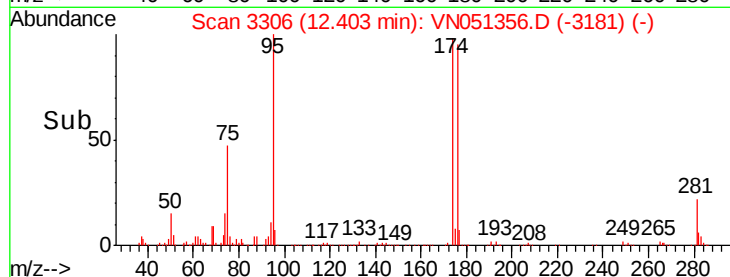
89 0.2 37.9 56.9#



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



#84

1,2,4-Trimethylbenzene

Concen: 1.02 ug/l

RT: 13.04 min Scan# 3504

Delta R.T. -0.00 min

Lab File: VN051356.D

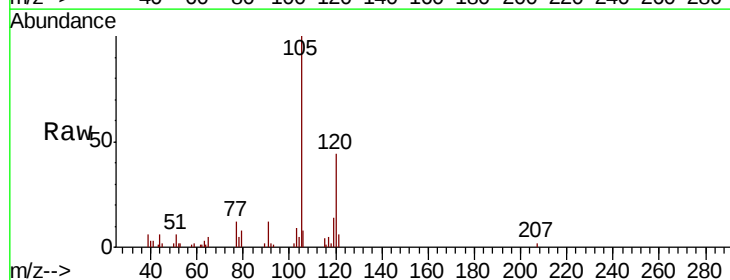
Acq: 20 Sep 2018 22:12

Tgt Ion: 105 Resp: 22775

Ion Ratio Lower Upper

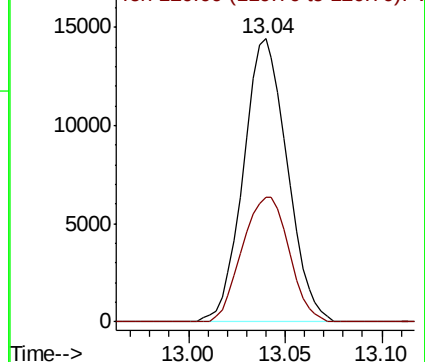
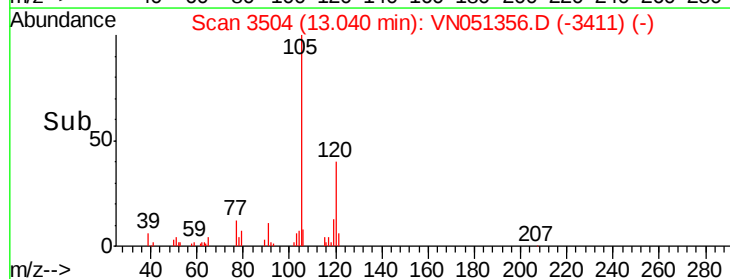
105 100

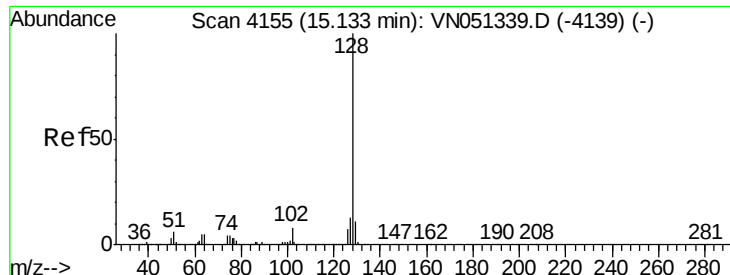
120 46.9 23.5 70.6



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#95

Naphthalene

Concen: 1.95 ug/l

RT: 15.13 min Scan# 4155

Delta R.T. -0.00 min

Lab File: VN051356.D

Acq: 20 Sep 2018 22:12

Instrument :

MSVOA_N

ClientSampleId :

RBR200036

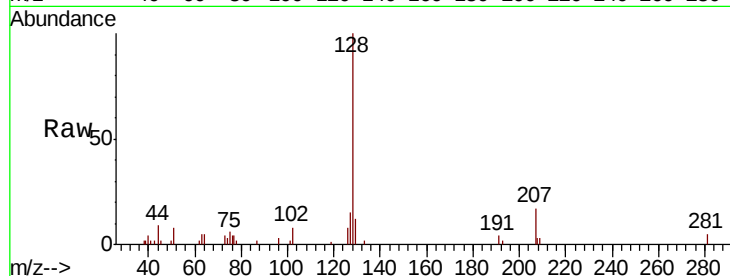
Tot Ion:128 Resp: 19633

Ion Ratio Lower Upper

128 100

127 14.5 10.3 15.5

129 10.4 8.6 13.0



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

