

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN091518\
 Data File : VN051236.D
 Acq On : 15 Sep 2018 20:50
 Operator : MD\SY
 Sample : PB112879ZHE#17
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Sep 17 02:18:41 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N091018W.M
 Quant Title : SW846 8260
 QLast Update : Tue Sep 11 02:27:09 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	420047	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	670975	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	537317	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	162756	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	230833	49.38	ug/l	0.00
Spiked Amount			Recovery	=	98.76%	
35) Dibromofluoromethane	7.59	113	246857	48.96	ug/l	0.00
Spiked Amount			Recovery	=	97.92%	
50) Toluene-d8	10.09	98	843599	44.09	ug/l	0.00
Spiked Amount			Recovery	=	88.18%	
62) 4-Bromofluorobenzene	12.40	95	217889	34.43	ug/l	0.00
Spiked Amount			Recovery	=	68.86%	

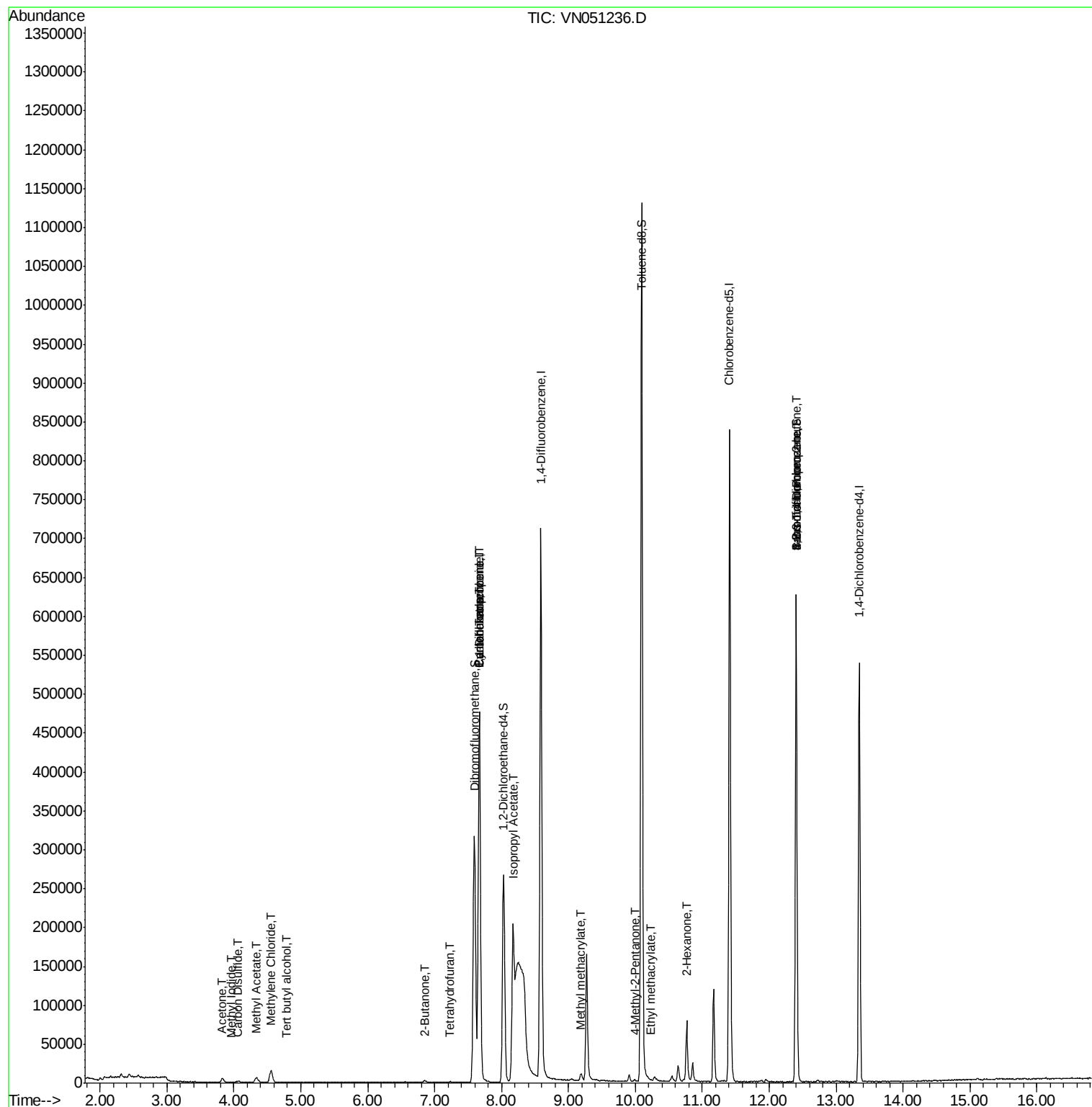
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.06	50	1520	Below Cal		96
5) Bromomethane	2.57	94	757	Below Cal		85
10) Methyl Iodide	3.97	142	95	5.65	ug/l #	44
11) Tert butyl alcohol	4.79	59	193	0.54	ug/l #	73
16) Acetone	3.82	43	8650	1.69	ug/l	92
17) Carbon Disulfide	4.06	76	1177	0.20	ug/l #	76
18) Methyl Acetate	4.33	43	12094	3.23	ug/l	98
20) Methylene Chloride	4.55	84	12438	2.41	ug/l	94
25) 2-Butanone	6.85	43	4540	2.47	ug/l	90
29) Tetrahydrofuran	7.22	42	836	0.73	ug/l #	31
31) Cyclohexane	7.67	56	6842	0.67	ug/l #	1
36) 1,1-Dichloropropene	7.67	75	26471	3.59	ug/l #	48
38) Carbon Tetrachloride	7.67	117	36404	5.02	ug/l #	16
43) Isopropyl Acetate	8.17	43	245239	32.58	ug/l #	79
48) Methyl methacrylate	9.18	41	5359	1.46	ug/l #	16
51) 4-Methyl-2-Pentanone	9.99	43	1030	0.25	ug/l	87
56) Ethyl methacrylate	10.23	69	1274	2.64	ug/l #	84
59) 2-Hexanone	10.77	43	12164	4.31	ug/l #	59
71) Bromoform	12.40	173	2141	0.62	ug/l #	1
76) 1,2,3-Trichloropropane	12.40	75	104278	41.06	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	104278	121.68	ug/l #	15

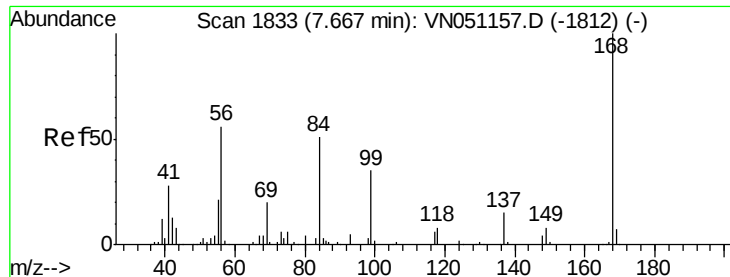
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Tue Sep 11 02:27:09 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 7.67 min Scan# 1834

Delta R.T. 0.00 min

Lab File: VN051236.D

Acq: 15 Sep 2018 20:50

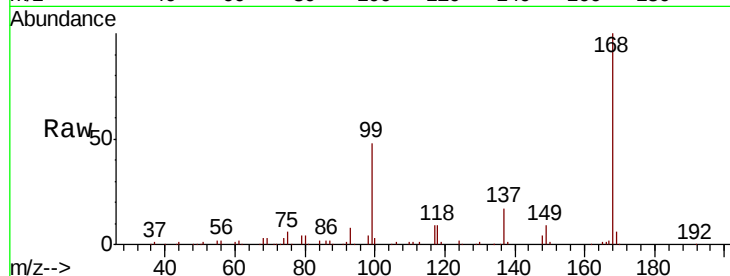
Instrument :
MSVOA_N
ClientSampled :

Tot Ion:168 Resp: 420047

Ion Ratio Lower Upper

168 100

99 47.6 38.3 57.5



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.67

200000

150000

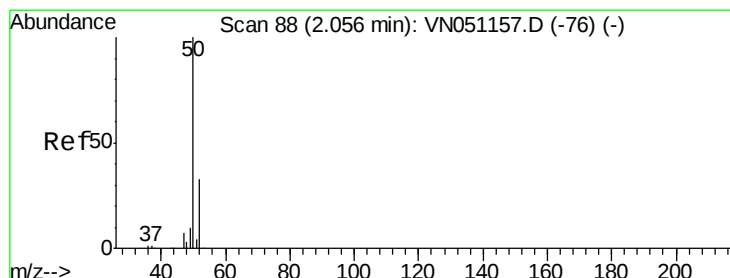
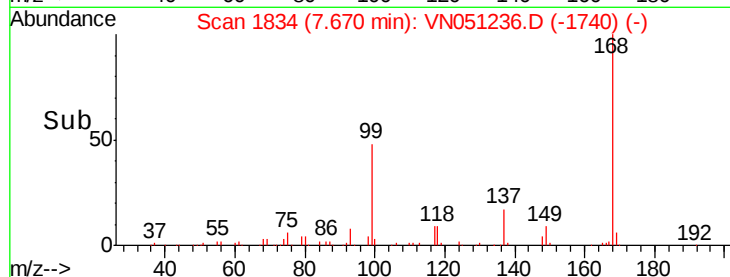
100000

50000

0

7.60 7.70 7.80

Time-->



#3

Chloromethane

Concen: Below Cal

RT: 2.06 min Scan# 89

Delta R.T. 0.00 min

Lab File: VN051236.D

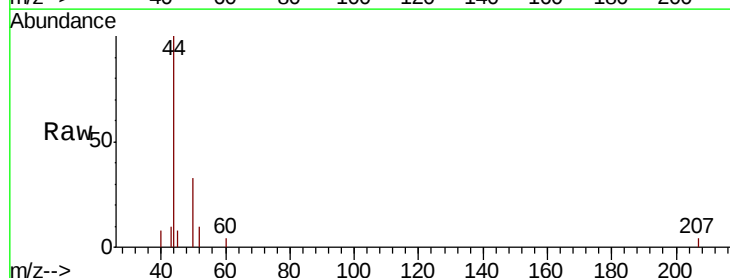
Acq: 15 Sep 2018 20:50

Tgt Ion: 50 Resp: 1520

Ion Ratio Lower Upper

50 100

52 30.1 26.0 39.0



Abundance Ion 49.90 (49.60 to 50.60): VNO

Ion 51.90 (51.60 to 52.60): VNO

2.06

1500

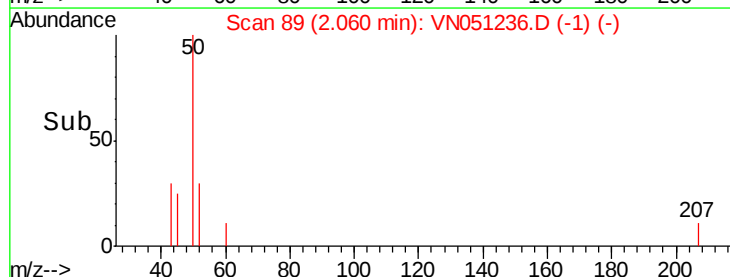
1000

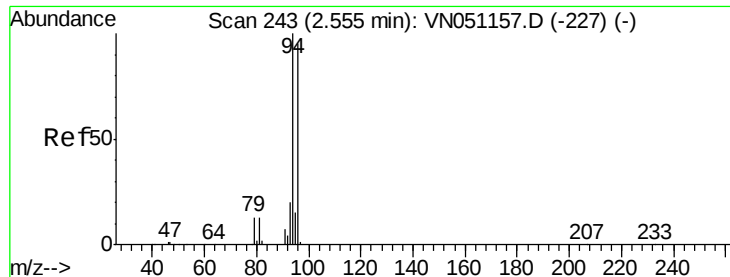
500

0

2.02 2.04 2.06 2.08

Time-->





#5

Bromomethane

Concen: Below Cal

RT: 2.57 min Scan# 248

Delta R.T. 0.01 min

Lab File: VN051236.D

Acq: 15 Sep 2018 20:50

Instrument :

MSVOA_N

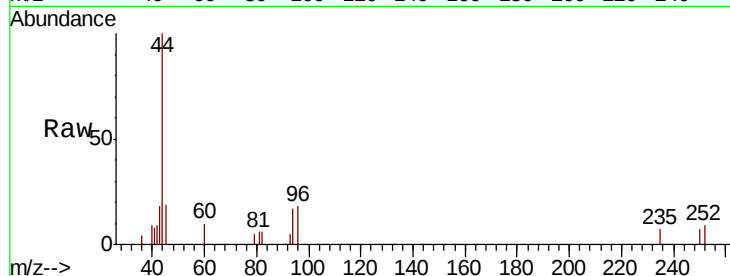
ClientSampled :

Tot Ion: 94 Resp: 757

Ion Ratio Lower Upper

94 100

96 109.1 75.9 113.9



Abundance Ion 93.90 (93.60 to 94.60): VN0

Ion 95.90 (95.60 to 96.60): VN0

800

600

400

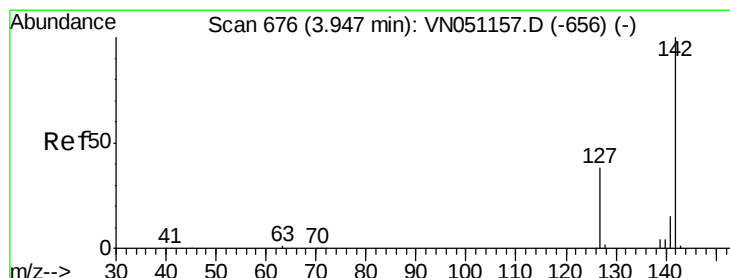
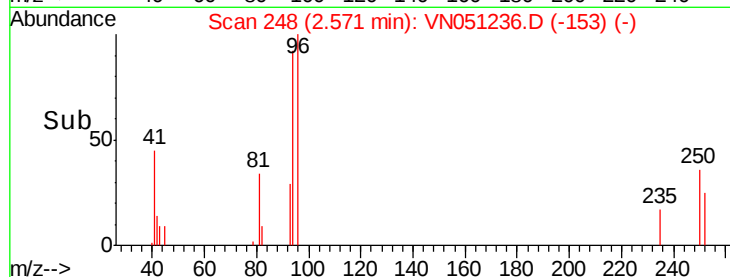
200

0

2.54 2.56 2.58

2.57

Time-->



#10

Methyl Iodide

Concen: 5.65 ug/l

RT: 3.97 min Scan# 682

Delta R.T. 0.02 min

Lab File: VN051236.D

Acq: 15 Sep 2018 20:50

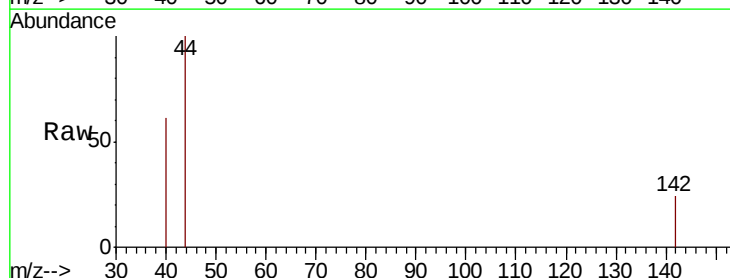
Tgt Ion: 142 Resp: 95

Ion Ratio Lower Upper

142 100

127 0.0 31.0 46.4#

141 0.0 11.3 16.9#



Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V

250

200

150

100

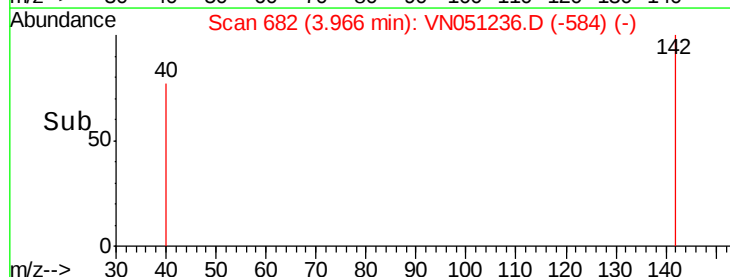
50

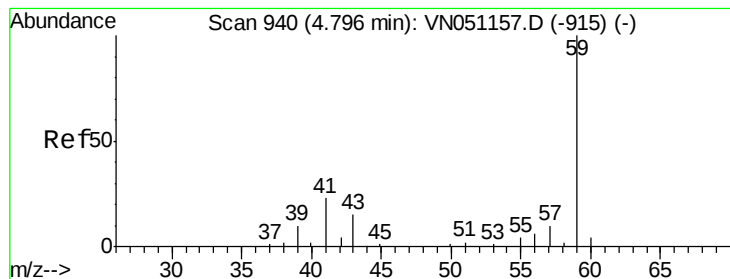
0

3.95 3.96 3.97 3.98

3.97

Time-->



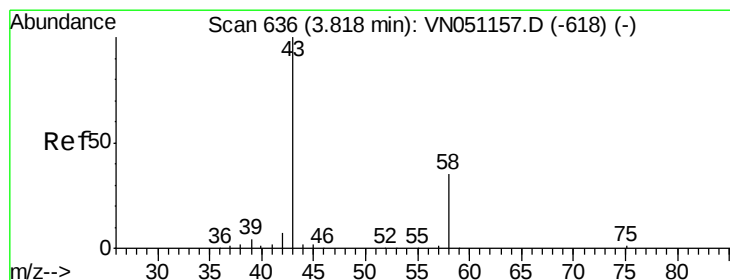
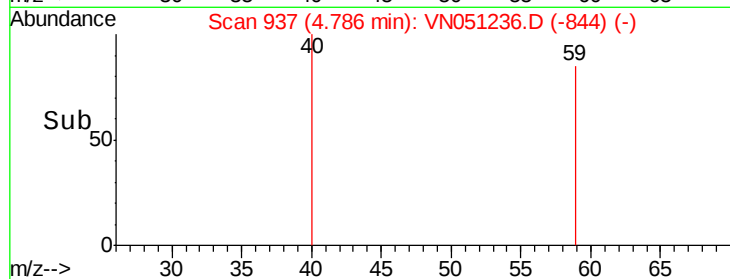
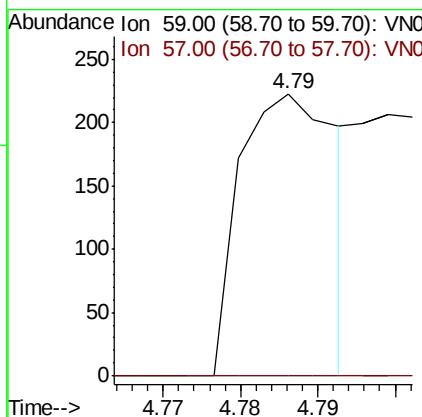
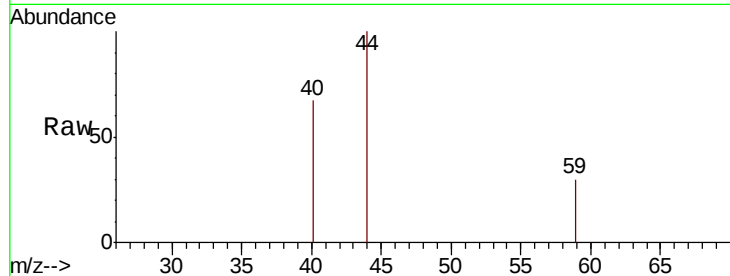


#11

Tert butyl alcohol
 Concen: 0.54 ug/l
 RT: 4.79 min Scan# 937
 Delta R.T. -0.00 min
 Lab File: VN051236.D
 Acq: 15 Sep 2018 20:50

Instrument :
 MSVOA_N
 ClientSampled :

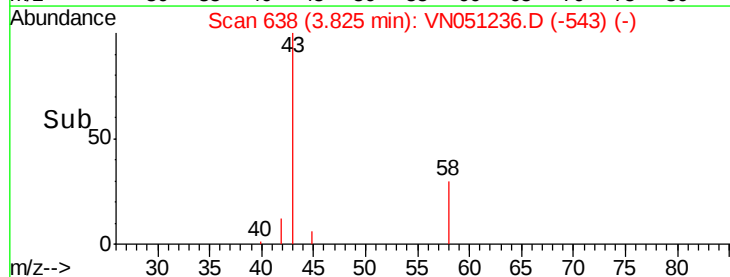
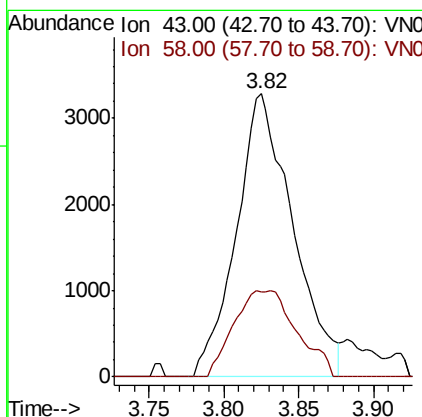
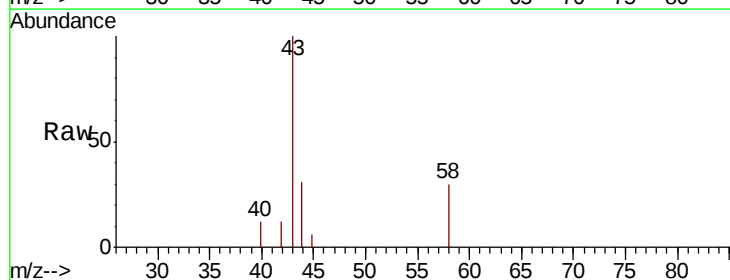
Tot Ion: 59 Resp: 193
 Ion Ratio Lower Upper
 59 100
 57 0.0 8.1 12.1#

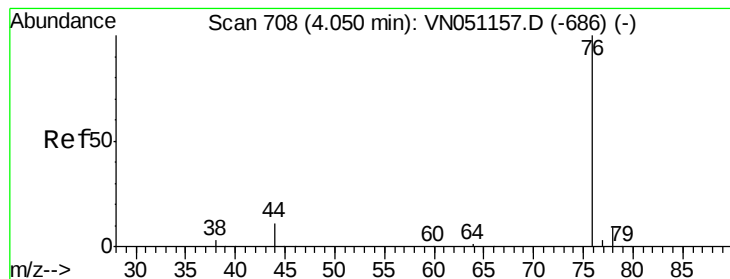


#16

Acetone
 Concen: 1.69 ug/l
 RT: 3.82 min Scan# 638
 Delta R.T. 0.01 min
 Lab File: VN051236.D
 Acq: 15 Sep 2018 20:50

Tgt Ion: 43 Resp: 8650
 Ion Ratio Lower Upper
 43 100
 58 30.1 27.8 41.6





#17

Carbon Disulfide

Concen: 0.20 ug/l

RT: 4.06 min Scan# 711

Delta R.T. 0.01 min

Lab File: VN051236.D

Acq: 15 Sep 2018 20:50

Instrument :

MSVOA_N

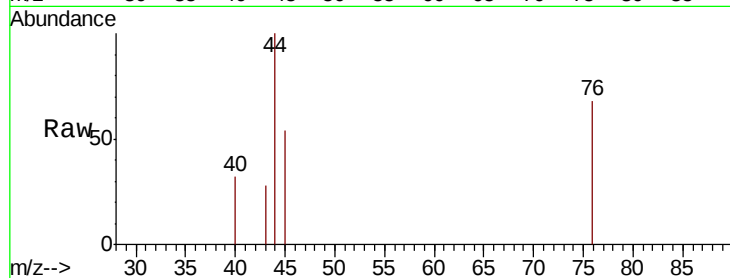
ClientSampleId :

Tot Ion: 76 Resp: 1177

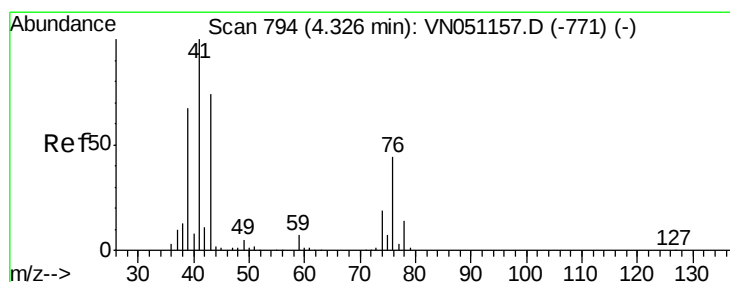
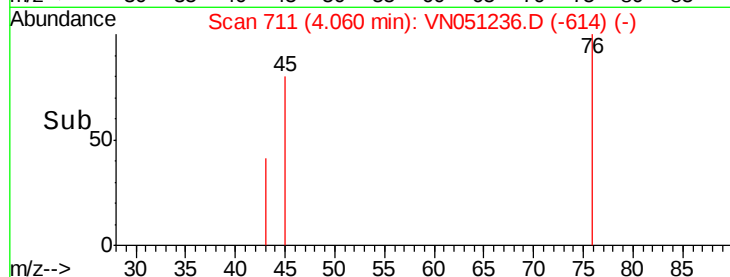
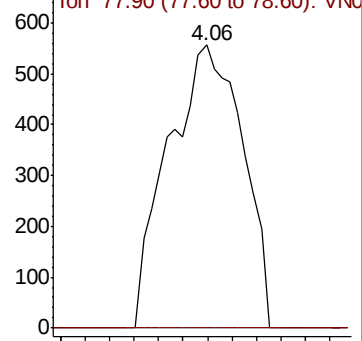
Ion Ratio Lower Upper

76 100

78 0.0 7.0 10.6#



Abundance Ion 75.90 (75.60 to 76.60): VN0



#18

Methyl Acetate

Concen: 3.23 ug/l

RT: 4.33 min Scan# 796

Delta R.T. 0.01 min

Lab File: VN051236.D

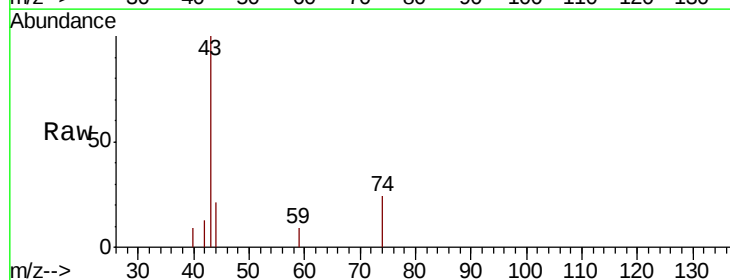
Acq: 15 Sep 2018 20:50

Tgt Ion: 43 Resp: 12094

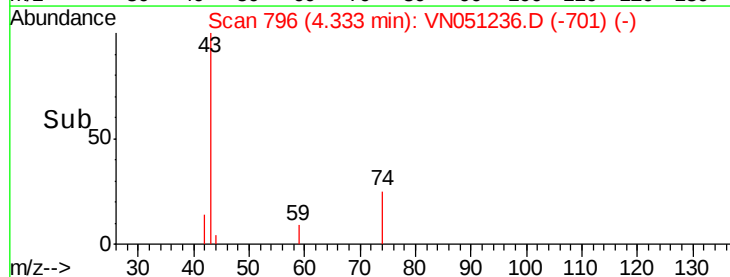
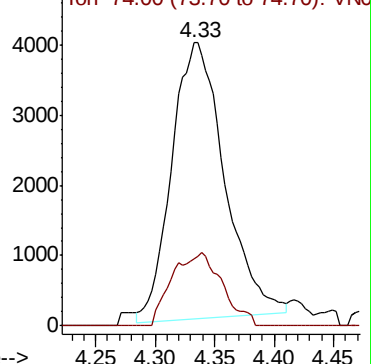
Ion Ratio Lower Upper

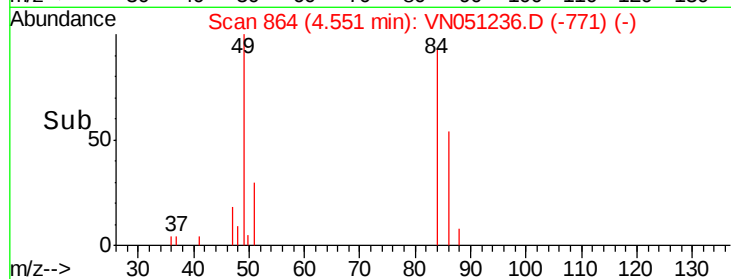
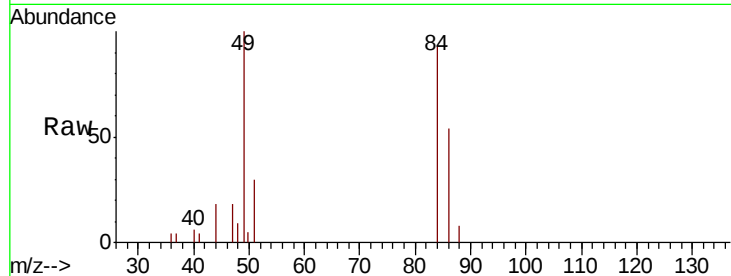
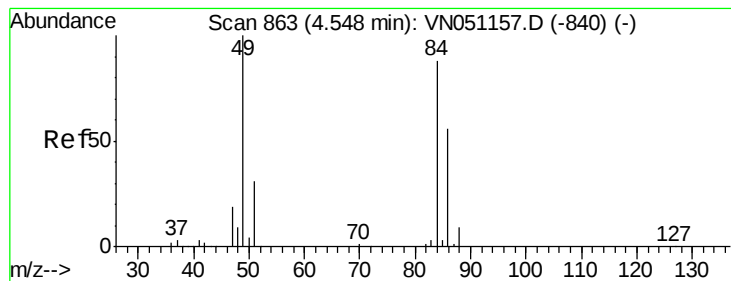
43 100

74 25.1 20.7 31.1



Abundance Ion 43.00 (42.70 to 43.70): VN0





#20

Methylene Chloride

Concen: 2.41 ug/l

RT: 4.55 min Scan# 864

Delta R.T. -0.00 min

Lab File: VN051236.D

Acq: 15 Sep 2018 20:50

Instrument :

MSVOA_N

ClientSampleId :

Tot Ion: 84 Resp: 12438

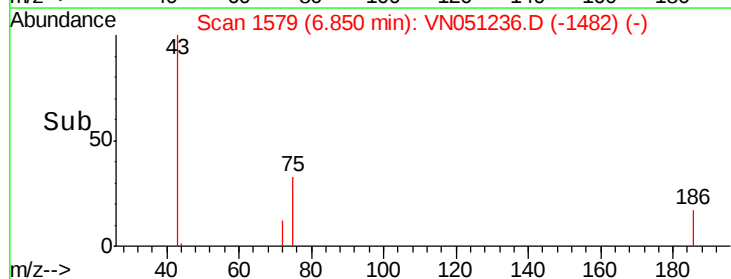
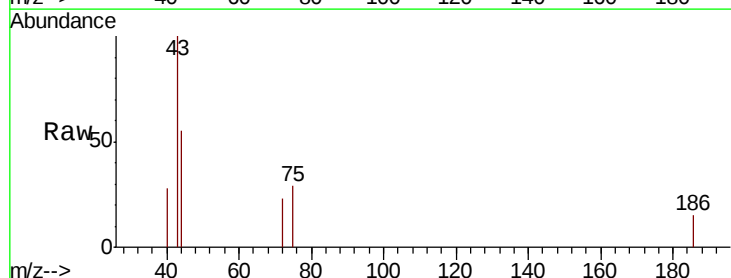
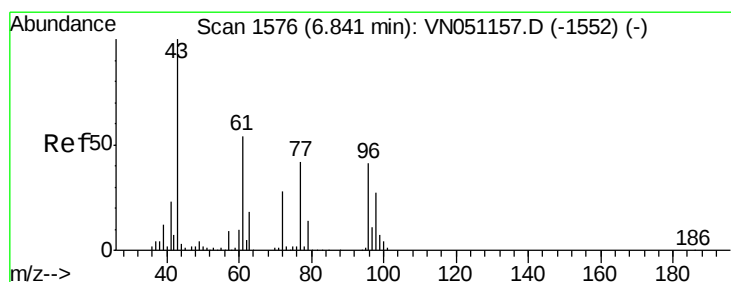
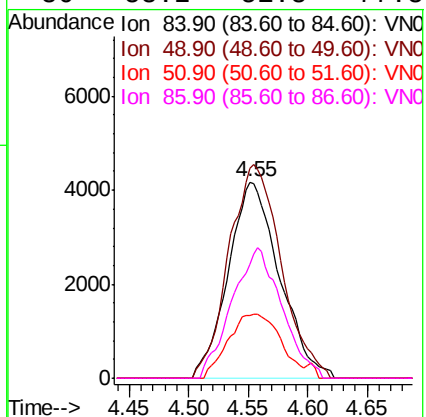
Ion Ratio Lower Upper

84 100

49 107.2 90.2 135.2

51 32.1 28.4 42.6

86 58.2 51.8 77.8



#25

2-Butanone

Concen: 2.47 ug/l

RT: 6.85 min Scan# 1579

Delta R.T. 0.01 min

Lab File: VN051236.D

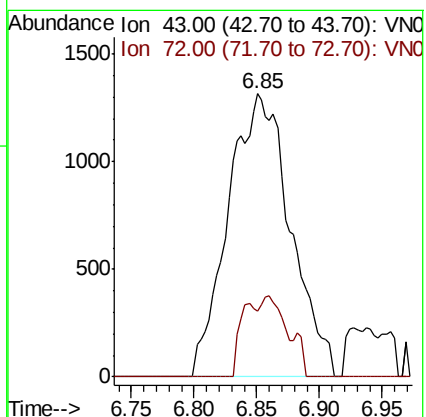
Acq: 15 Sep 2018 20:50

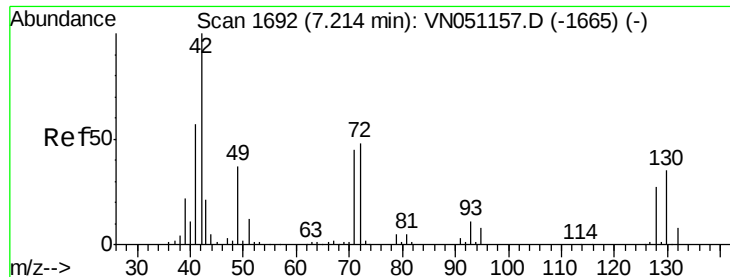
Tgt Ion: 43 Resp: 4540

Ion Ratio Lower Upper

43 100

72 23.4 23.0 34.6





#29

Tetrahydrofuran

Concen: 0.73 ug/l

RT: 7.22 min Scan# 1695

Delta R.T. 0.01 min

Lab File: VN051236.D

Acq: 15 Sep 2018 20:50

Instrument :

MSVOA_N

ClientSampleId :

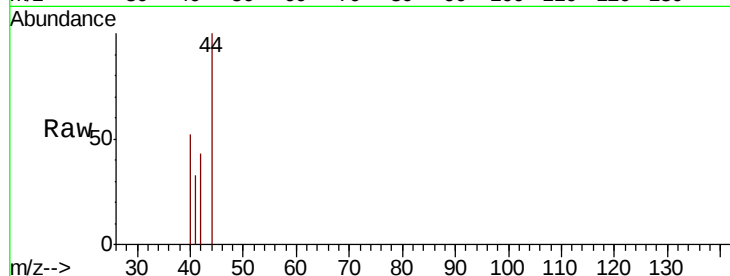
Tot Ion: 42 Resp: 836

Ion Ratio Lower Upper

42 100

72 0.0 37.4 56.0#

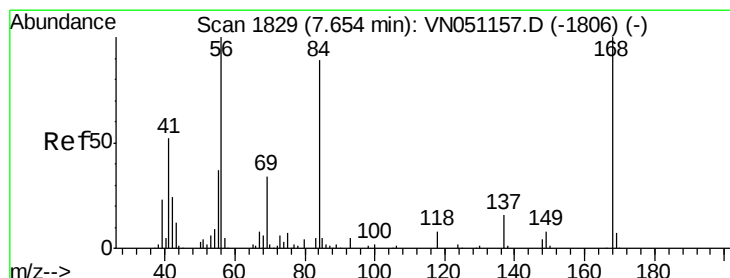
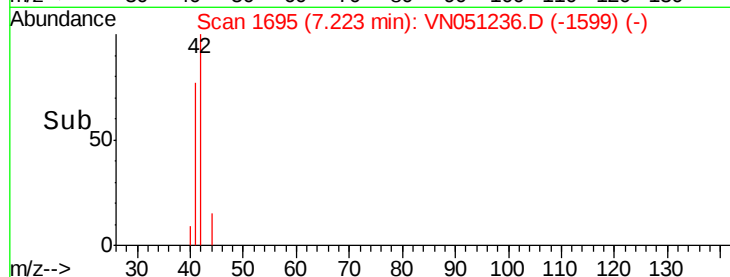
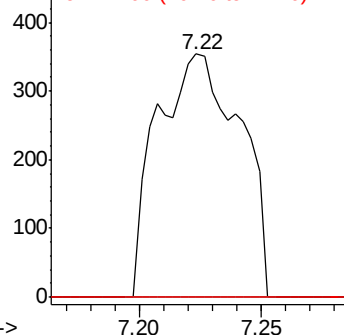
71 0.0 34.7 52.1#



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: 0.67 ug/l

RT: 7.67 min Scan# 1834

Delta R.T. 0.02 min

Lab File: VN051236.D

Acq: 15 Sep 2018 20:50

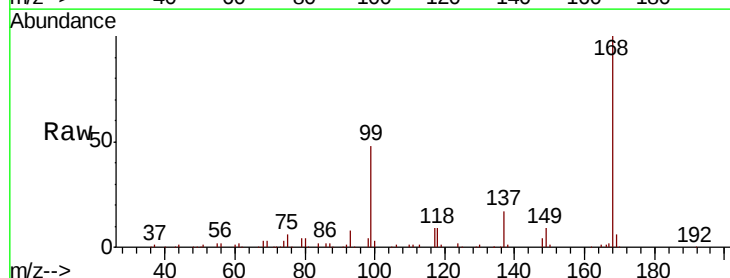
Tgt Ion: 56 Resp: 6842

Ion Ratio Lower Upper

56 100

69 202.6 26.3 39.5#

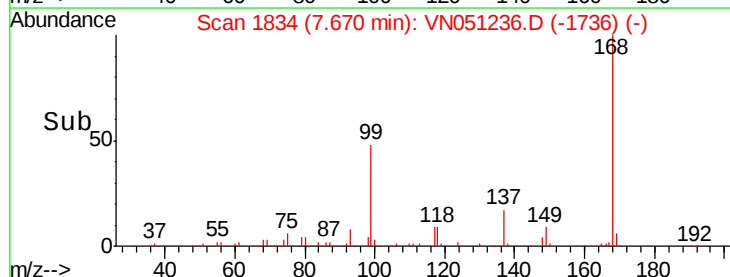
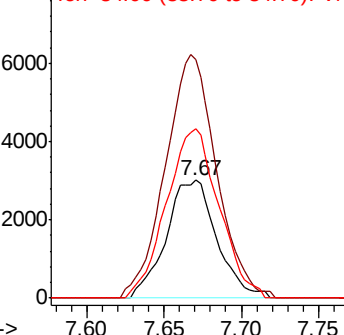
84 144.4 69.4 104.0#

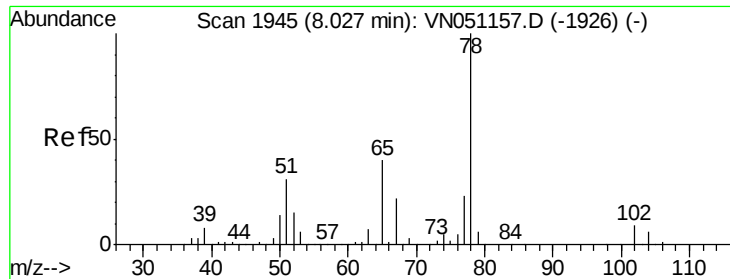


Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 84.00 (83.70 to 84.70): VN0

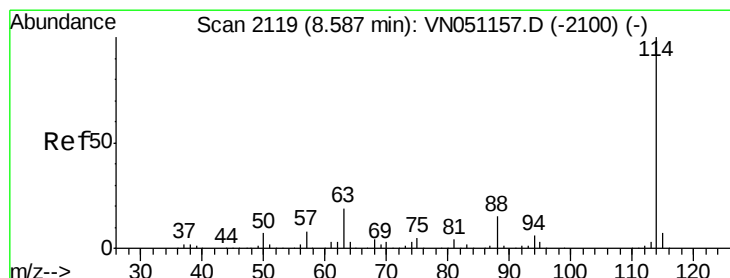
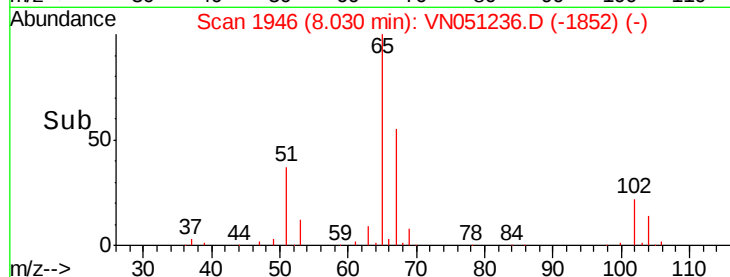
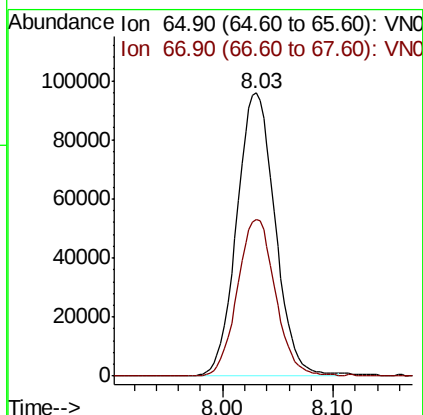
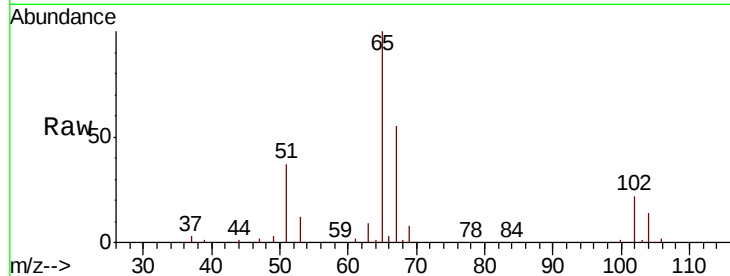




#33
 1,2-Dichloroethane-d4
 Concen: 49.38 ug/l
 RT: 8.03 min Scan# 1946
 Delta R.T. 0.00 min
 Lab File: VN051236.D
 Acq: 15 Sep 2018 20:50

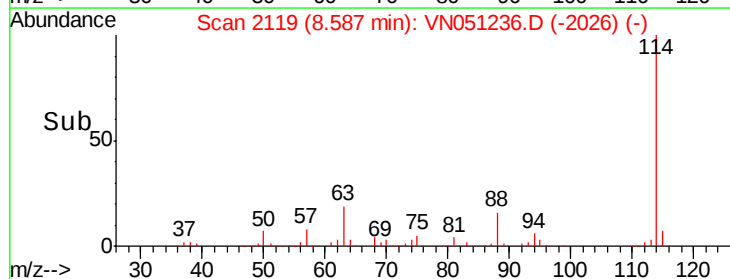
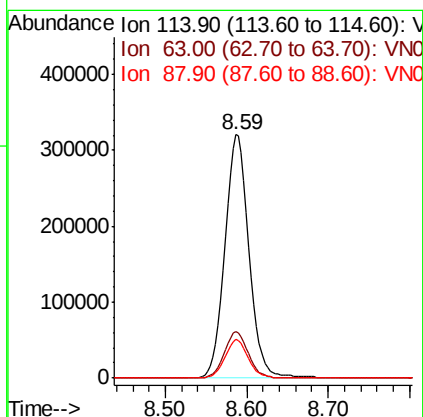
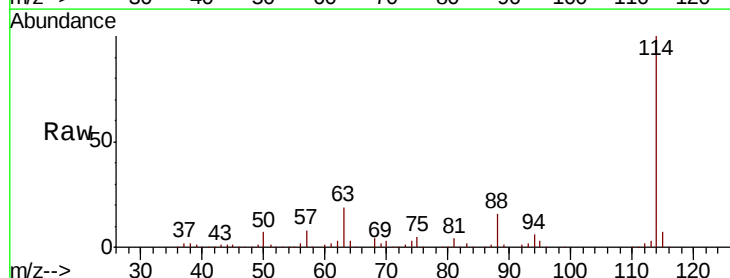
Instrument :
 MSVOA_N
 ClientSampled :

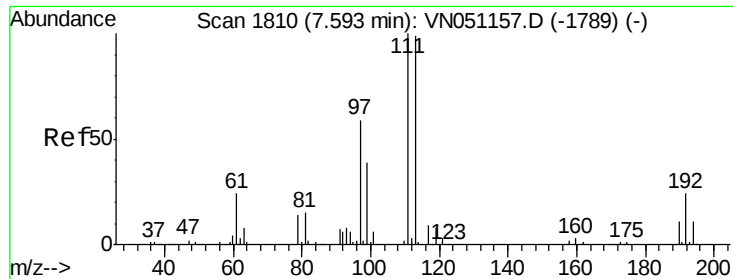
Tot Ion: 65 Resp: 230833
 Ion Ratio Lower Upper
 65 100
 67 54.8 0.0 112.0



#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. -0.00 min
 Lab File: VN051236.D
 Acq: 15 Sep 2018 20:50

Tgt Ion: 114 Resp: 670975
 Ion Ratio Lower Upper
 114 100
 63 19.1 0.0 37.8
 88 15.7 0.0 30.8

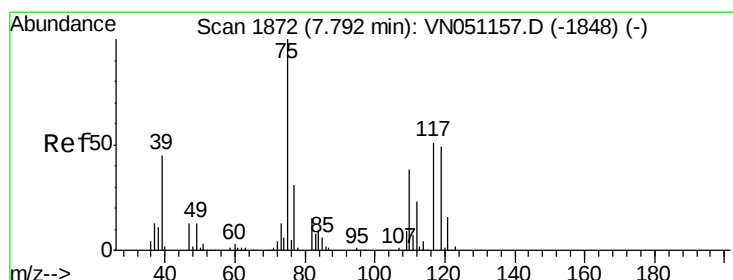
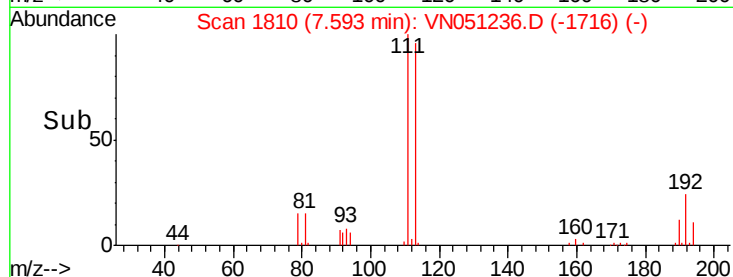
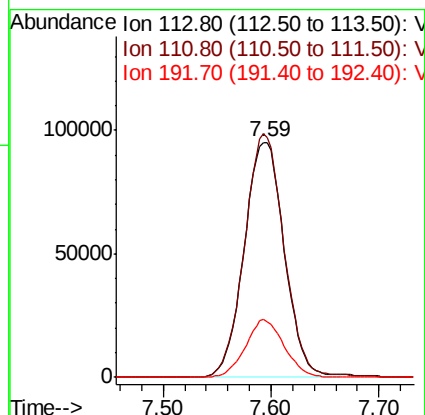
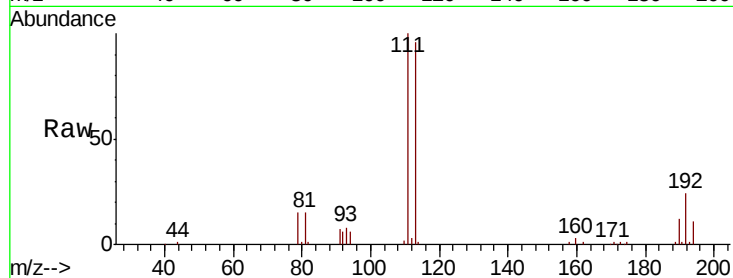




#35
 Dibromofluoromethane
 Concen: 48.96 ug/l
 RT: 7.59 min Scan# 1810
 Delta R.T. 0.00 min
 Lab File: VN051236.D
 Acq: 15 Sep 2018 20:50

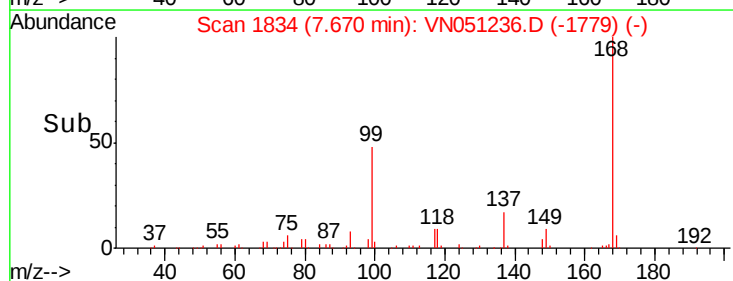
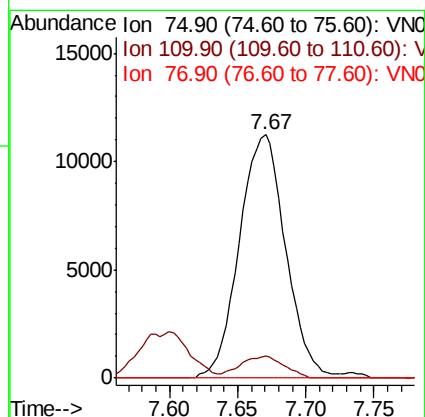
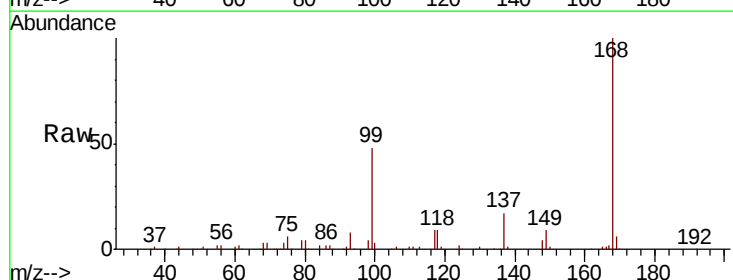
Instrument :
 MSVOA_N
 ClientSampled :

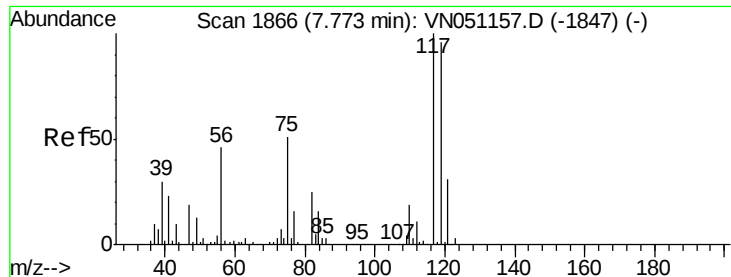
Tot Ion	Ratio	Lower	Upper
113	100		
111	102.2	83.0	124.6
192	23.7	18.7	28.1



#36
 1,1-Dichloropropene
 Concen: 3.59 ug/l
 RT: 7.67 min Scan# 1834
 Delta R.T. -0.12 min
 Lab File: VN051236.D
 Acq: 15 Sep 2018 20:50

Tgt Ion	Ratio	Lower	Upper
75	100		
110	8.8	18.6	55.8#
77	0.0	25.2	37.8#





#38

Carbon Tetrachloride

Concen: 5.02 ug/l

RT: 7.67 min Scan# 1834

Delta R.T. -0.10 min

Lab File: VN051236.D

Acq: 15 Sep 2018 20:50

Instrument :

MSVOA_N

ClientSampleId :

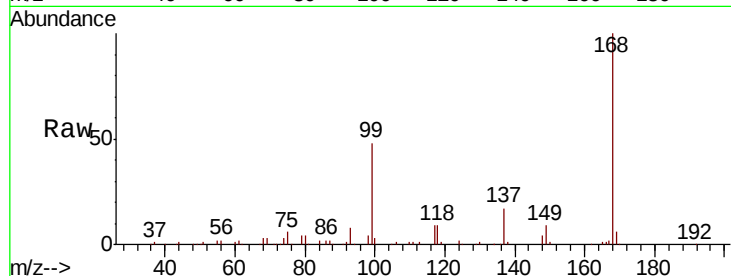
Tot Ion:117 Resp: 36404

Ion Ratio Lower Upper

117 100

119 5.4 76.8 115.2#

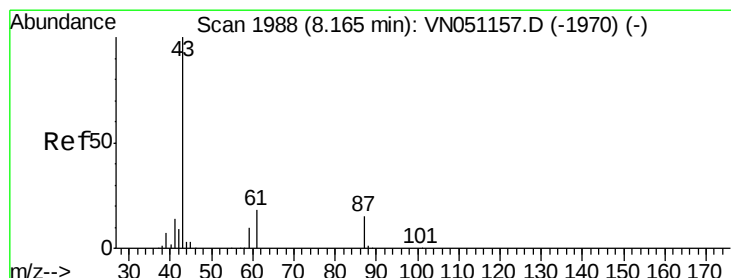
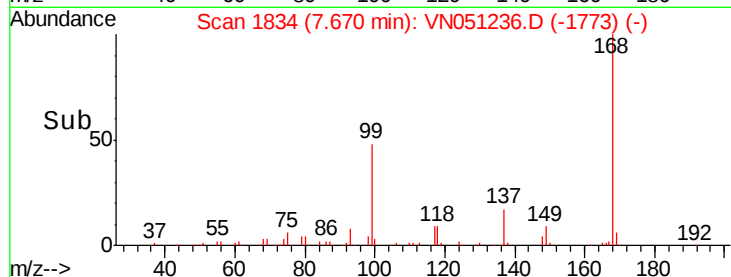
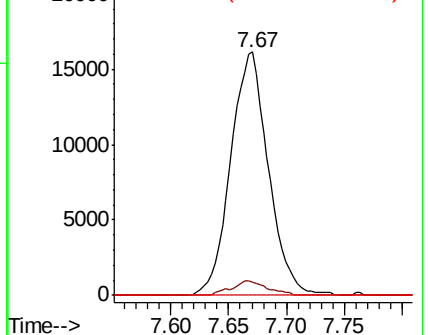
121 0.0 24.6 36.8#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#43

Isopropyl Acetate

Concen: 32.58 ug/l

RT: 8.17 min Scan# 1989

Delta R.T. 0.01 min

Lab File: VN051236.D

Acq: 15 Sep 2018 20:50

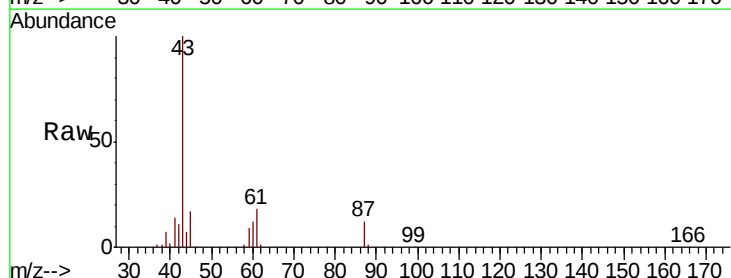
Tgt Ion: 43 Resp: 245239

Ion Ratio Lower Upper

43 100

61 16.4 25.0 37.6#

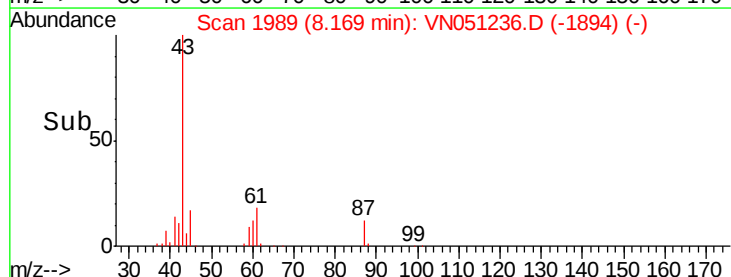
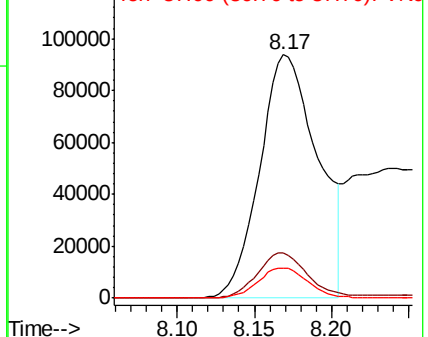
87 10.7 11.8 17.8#

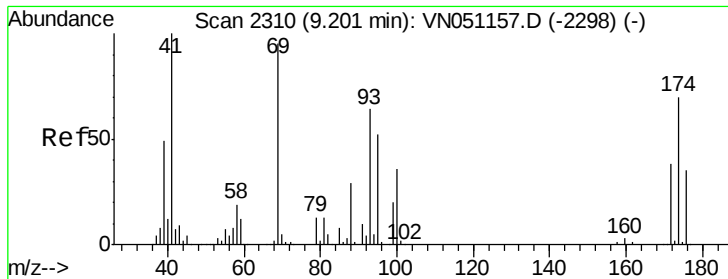


Abundance Ion 43.00 (42.70 to 43.70): V

Ion 61.00 (60.70 to 61.70): V

Ion 87.00 (86.70 to 87.70): V





#48

Methyl methacrylate

Concen: 1.46 ug/l

RT: 9.18 min Scan# 2304

Delta R.T. -0.02 min

Lab File: VN051236.D

Acq: 15 Sep 2018 20:50

Instrument :
MSVOA_N
ClientSampled :

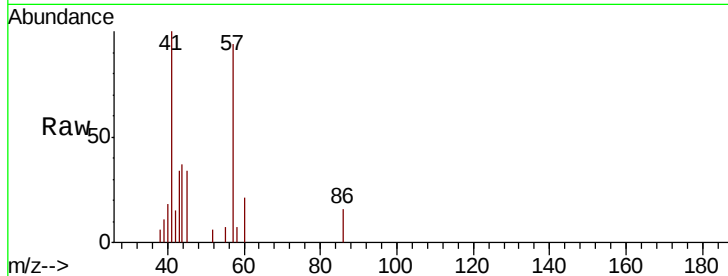
Tot Ion: 41 Resp: 5359

Ion Ratio Lower Upper

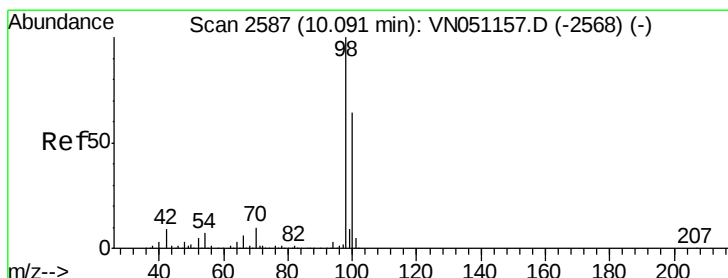
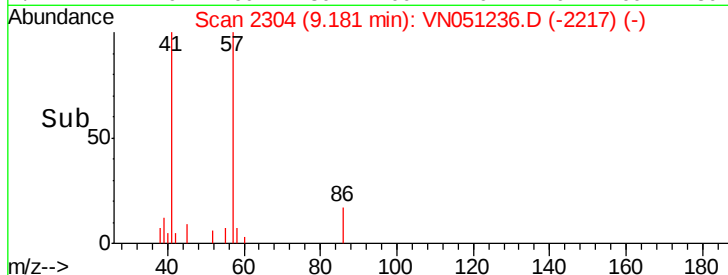
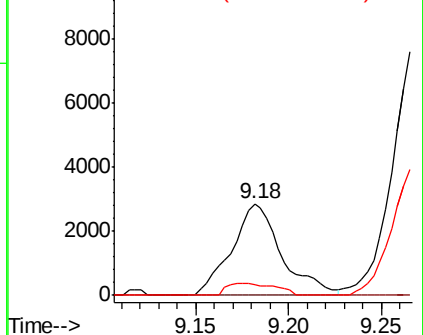
41 100

69 0.0 77.7 116.5#

39 12.9 41.6 62.4#



Abundance Ion 41.00 (40.70 to 41.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 39.00 (38.70 to 39.70): VN0



#50

Toluene-d8

Concen: 44.09 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. -0.00 min

Lab File: VN051236.D

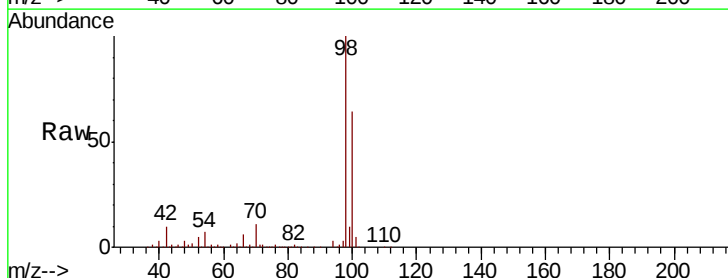
Acq: 15 Sep 2018 20:50

Tgt Ion: 98 Resp: 843599

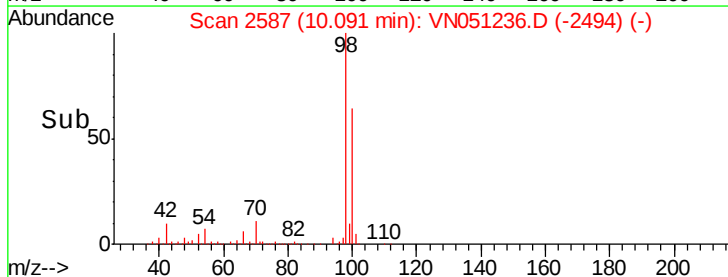
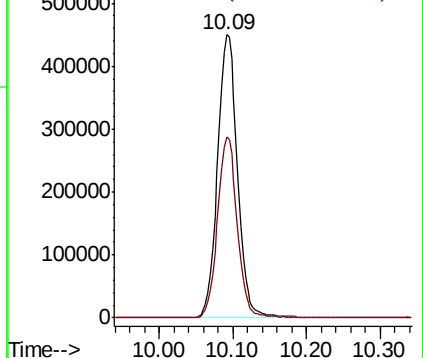
Ion Ratio Lower Upper

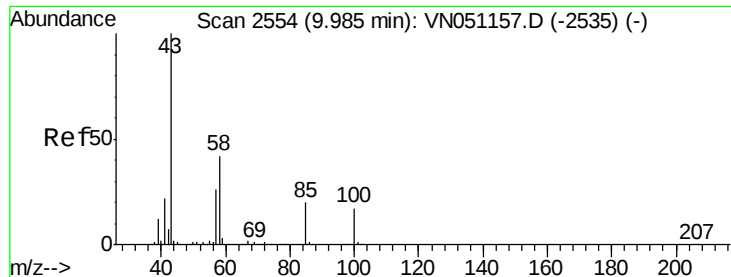
98 100

100 62.9 52.0 78.0



Abundance Ion 98.00 (97.70 to 98.70): VN0
Ion 100.00 (99.70 to 100.70): VN0





#51

4-Methyl-2-Pentanone

Concen: 0.25 ug/l

RT: 9.99 min Scan# 2555

Delta R.T. 0.00 min

Lab File: VN051236.D

Acq: 15 Sep 2018 20:50

Instrument :

MSVOA_N

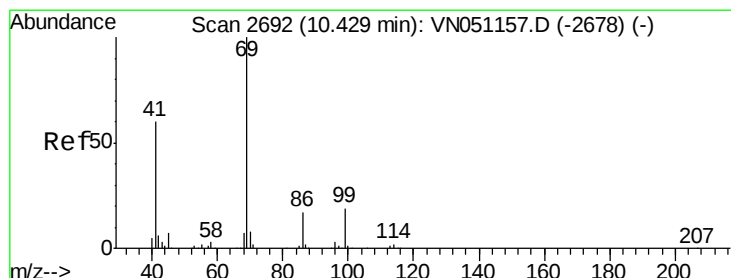
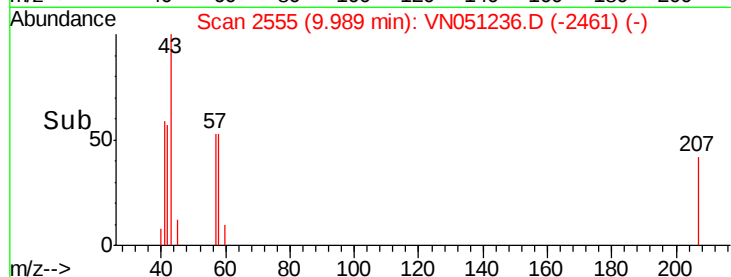
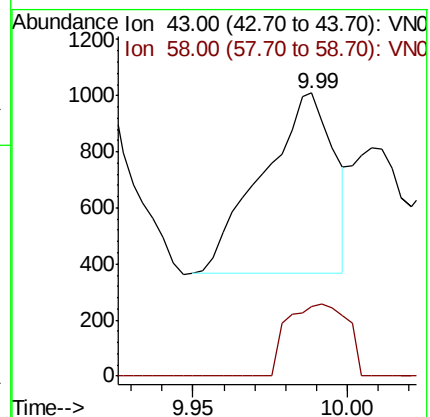
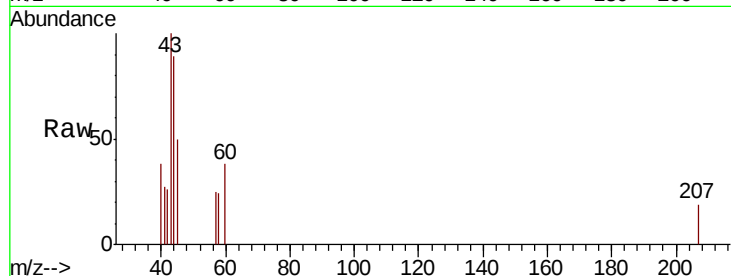
ClientSampled :

Tot Ion: 43 Resp: 1030

Ion Ratio Lower Upper

43 100

58 33.6 33.5 50.3



#56

Ethyl methacrylate

Concen: 2.64 ug/l

RT: 10.23 min Scan# 2631

Delta R.T. -0.20 min

Lab File: VN051236.D

Acq: 15 Sep 2018 20:50

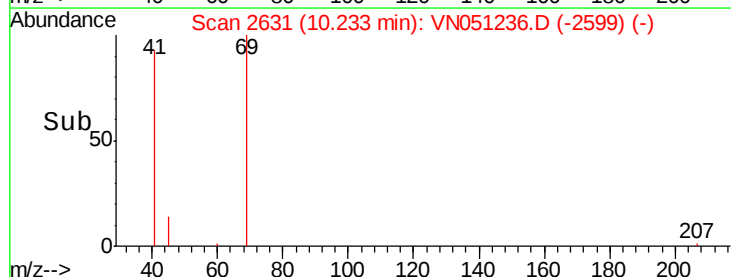
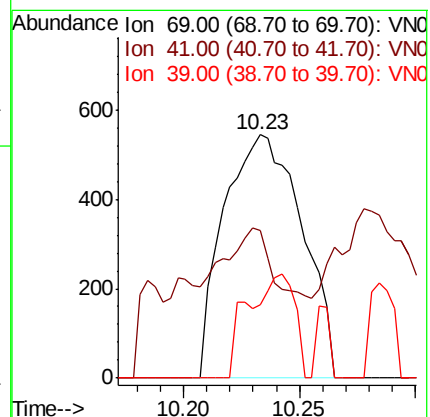
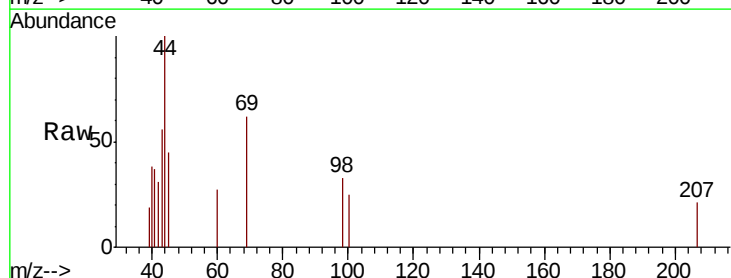
Tgt Ion: 69 Resp: 1274

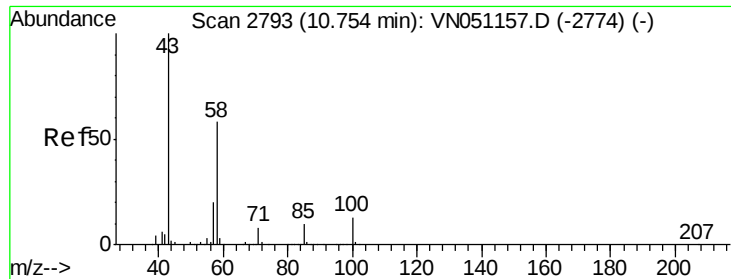
Ion Ratio Lower Upper

69 100

41 56.1 47.8 71.8

39 7.5 23.0 34.4#

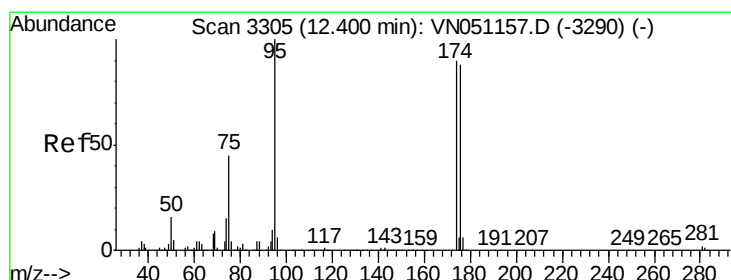
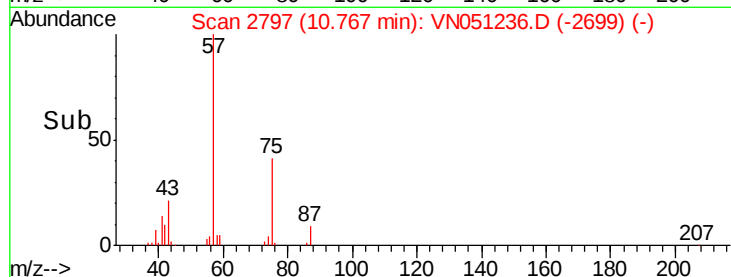
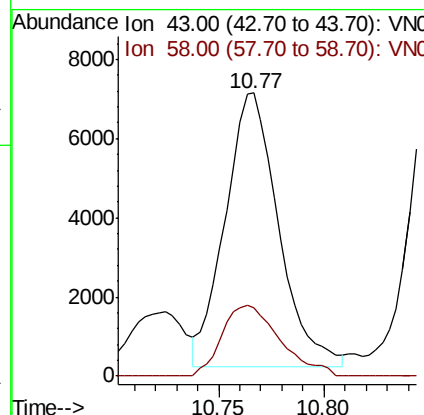
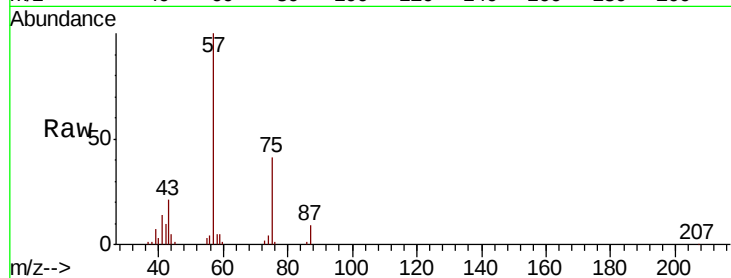




#59
2-Hexanone
Concen: 4.31 ug/l
RT: 10.77 min Scan# 2797
Delta R.T. 0.02 min
Lab File: VN051236.D
Acq: 15 Sep 2018 20:50

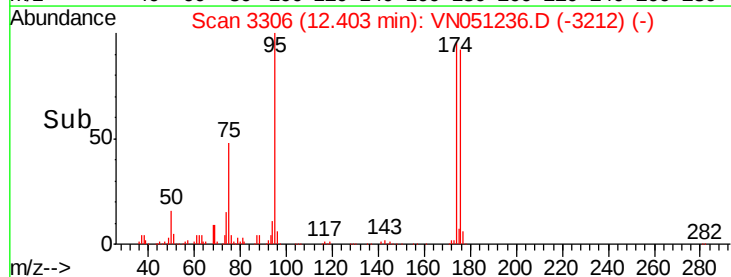
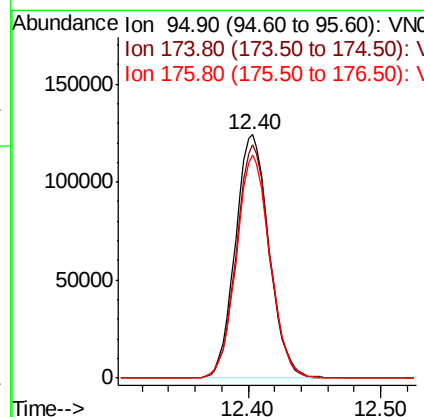
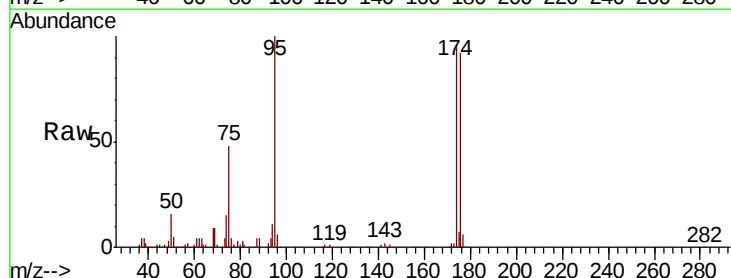
Instrument :
MSVOA_N
ClientSampled :

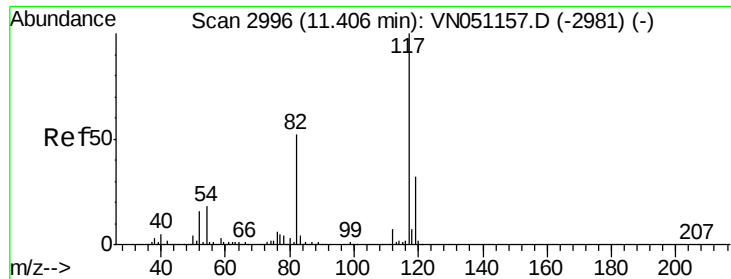
Tot Ion: 43 Resp: 12164
Ion Ratio Lower Upper
43 100
58 28.3 29.3 88.0#



#62
4-Bromofluorobenzene
Concen: 34.43 ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.00 min
Lab File: VN051236.D
Acq: 15 Sep 2018 20:50

Tgt Ion: 95 Resp: 217889
Ion Ratio Lower Upper
95 100
174 95.6 0.0 184.8
176 91.7 0.0 178.6

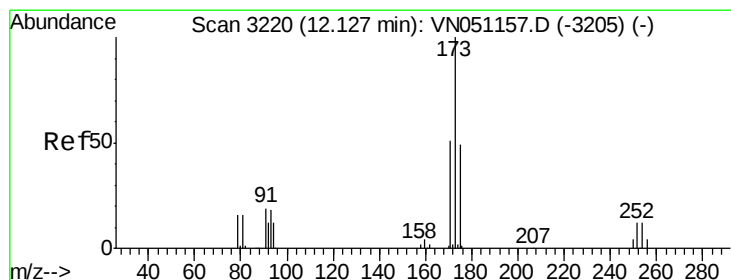
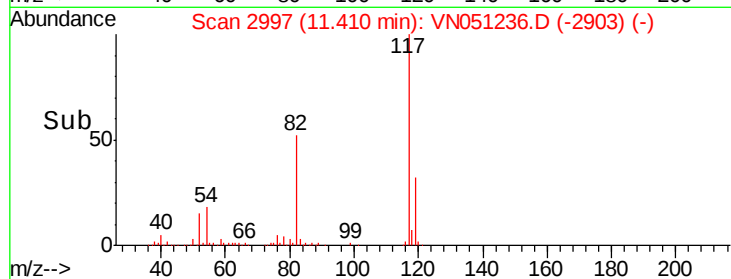
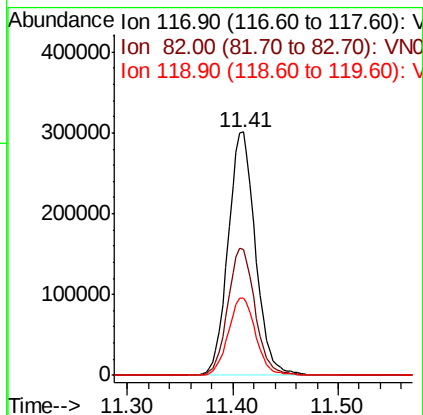
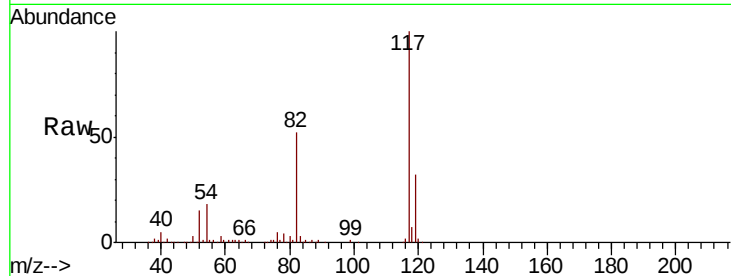




#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 11.41 min Scan# 2997
Delta R.T. 0.00 min
Lab File: VN051236.D
Acq: 15 Sep 2018 20:50

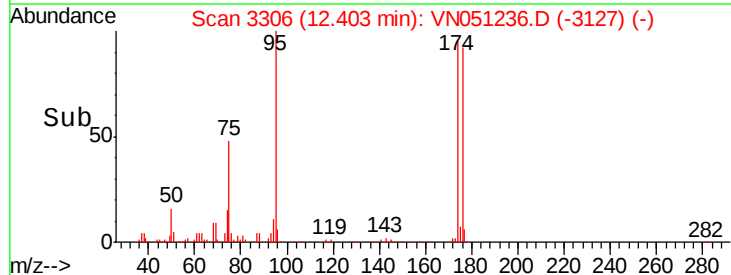
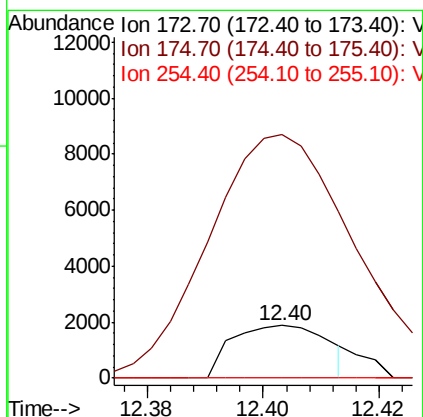
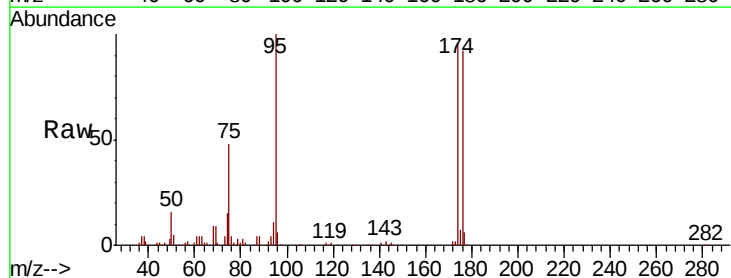
Instrument :
MSVOA_N
ClientSampleId :

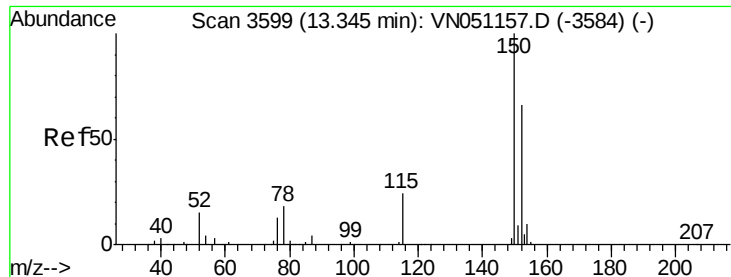
Tot Ion	Ratio	Lower	Upper
117	100		
82	51.7	41.8	62.6
119	31.8	26.2	39.2



#71
Bromoform
Concen: 0.62 ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.28 min
Lab File: VN051236.D
Acq: 15 Sep 2018 20:50

Tgt Ion	Ratio	Lower	Upper
173	100		
175	587.5	24.3	72.9#
254	0.0	0.0	0.0





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 13.35 min Scan# 3599

Delta R.T. 0.00 min

Lab File: VN051236.D

Acq: 15 Sep 2018 20:50

Instrument :

MSVOA_N

ClientSampleId :

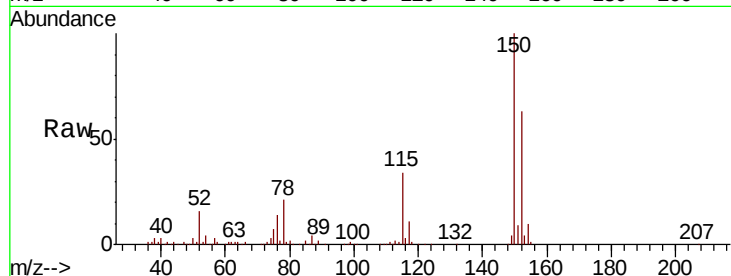
Tot Ion:152 Resp: 162756

Ion Ratio Lower Upper

152 100

115 54.4 28.2 84.7

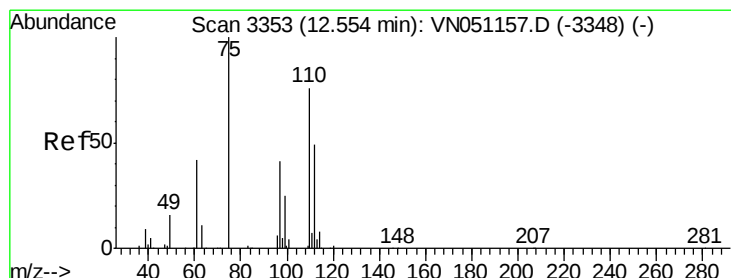
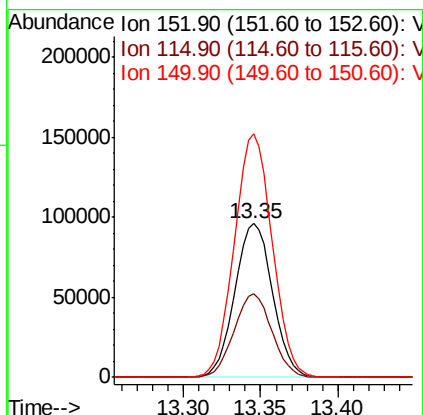
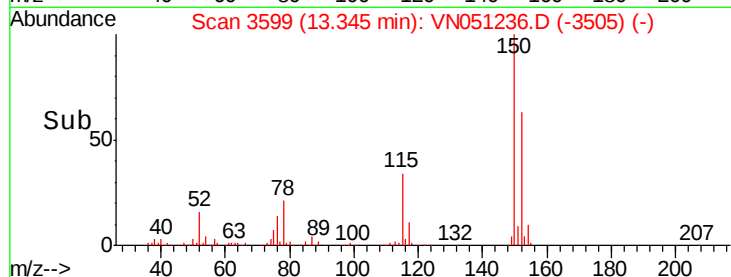
150 158.5 0.0 349.0



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: 41.06 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. -0.15 min

Lab File: VN051236.D

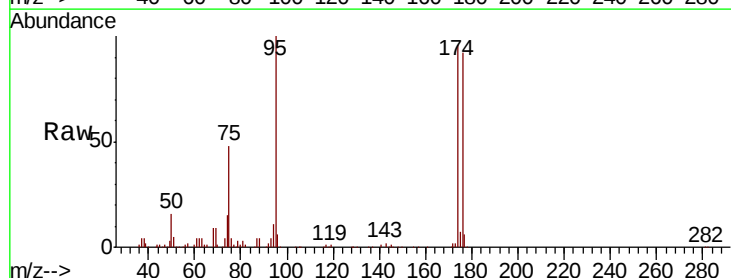
Acq: 15 Sep 2018 20:50

Tgt Ion: 75 Resp: 104278

Ion Ratio Lower Upper

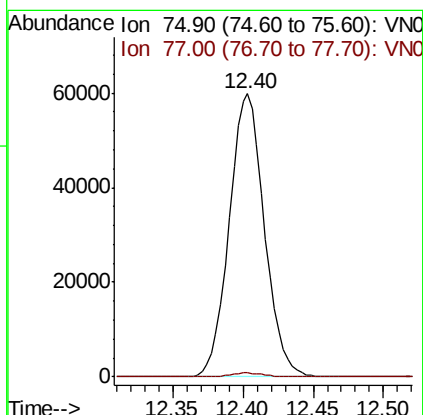
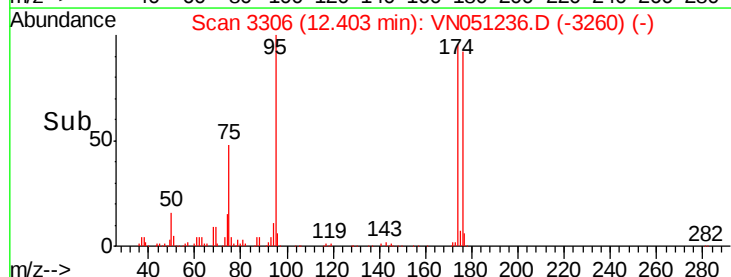
75 100

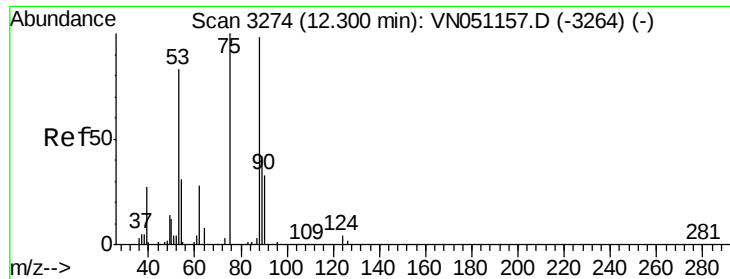
77 1.2 0.0 0.0#



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: 121.68 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.10 min

Lab File: VN051236.D

Acq: 15 Sep 2018 20:50

Instrument :

MSVOA_N

ClientSampleId :

Tot Ion: 75 Resp: 104278

Ion Ratio Lower Upper

75 100

53 0.2 67.8 101.8#

89 0.0 36.0 54.0#

