

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN091518\
 Data File : VN051228.D
 Acq On : 15 Sep 2018 17:33
 Operator : MD\SY
 Sample : PB112879ZHE#09
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Sep 17 02:16:42 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	409048	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	647182	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	502872	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	135541	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.03	65	225760	49.59	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.18%	
35) Dibromofluoromethane	7.59	113	243555	50.08	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.16%	
50) Toluene-d8	10.09	98	818586	44.36	ug/l	0.00
Spiked Amount	50.000		Recovery	=	88.72%	
62) 4-Bromofluorobenzene	12.40	95	199280	32.65	ug/l	0.00
Spiked Amount	50.000		Recovery	=	65.30%	

Target Compounds

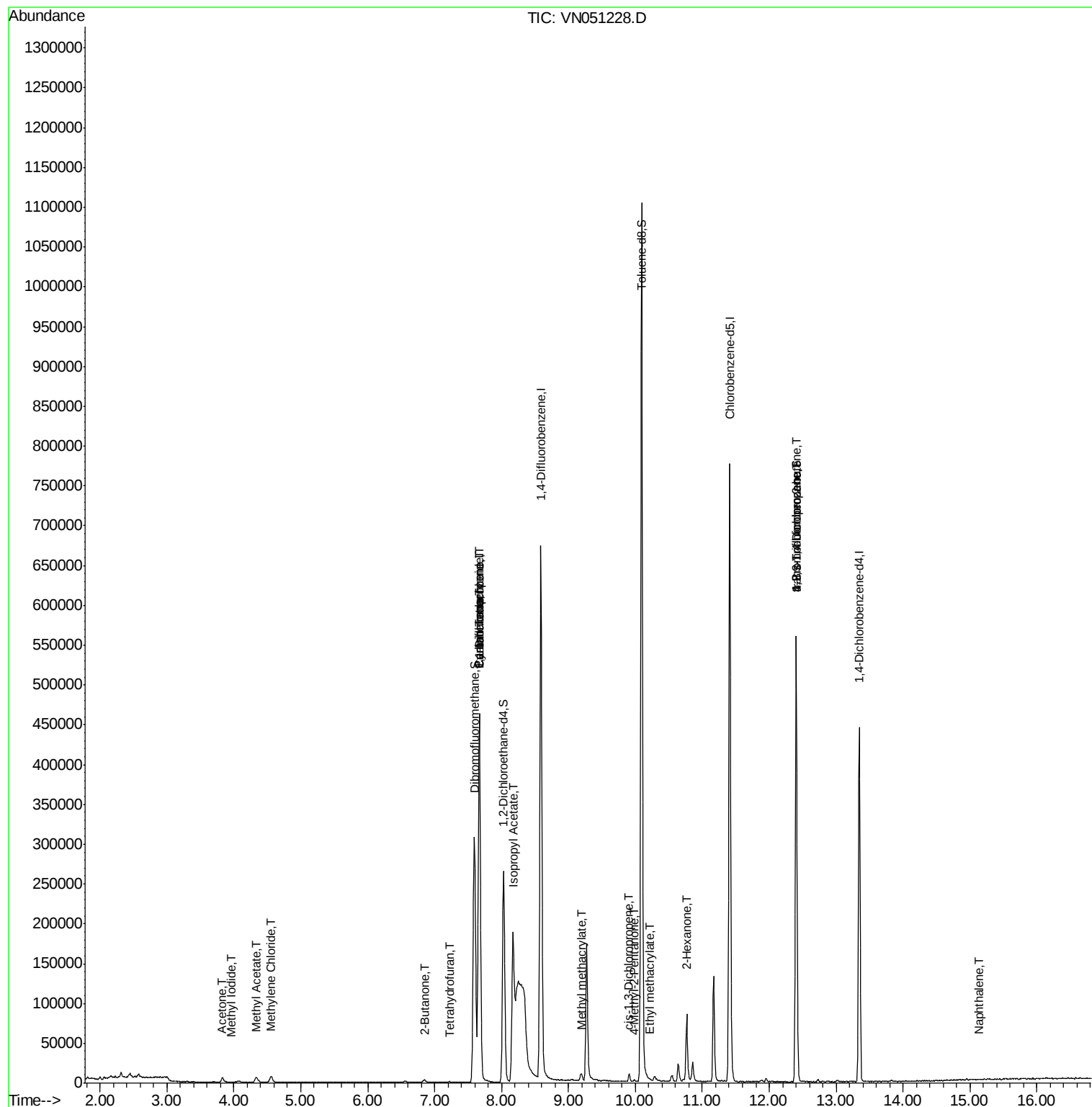
						Qvalue
3) Chloromethane	2.06	50	1632	Below Cal	#	85
5) Bromomethane	2.57	94	1803	Below Cal		82
10) Methyl Iodide	3.96	142	285	5.69	ug/l #	56
16) Acetone	3.82	43	8668	1.91	ug/l	89
18) Methyl Acetate	4.33	43	12516	3.43	ug/l	98
20) Methylene Chloride	4.56	84	6054	1.20	ug/l	91
25) 2-Butanone	6.86	43	5027	2.81	ug/l #	82
29) Tetrahydrofuran	7.22	42	322	0.29	ug/l #	62
31) Cyclohexane	7.67	56	6119	0.59	ug/l #	1
36) 1,1-Dichloropropene	7.67	75	26354	3.71	ug/l #	49
38) Carbon Tetrachloride	7.67	117	35735	5.11	ug/l #	18
43) Isopropyl Acetate	8.17	43	237889	32.76	ug/l #	81
48) Methyl methacrylate	9.18	41	5406	1.53	ug/l #	14
51) 4-Methyl-2-Pentanone	9.98	43	1279	0.32	ug/l	98
54) cis-1,3-Dichloropropene	9.91	75	1791	0.22	ug/l #	74
56) Ethyl methacrylate	10.23	69	726	2.56	ug/l #	56
59) 2-Hexanone	10.76	43	12916	4.74	ug/l	64
76) 1,2,3-Trichloropropane	12.40	75	90765	42.98	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	90765	127.18	ug/l #	15
95) Naphthalene	15.13	128	118	5.36	ug/l #	69

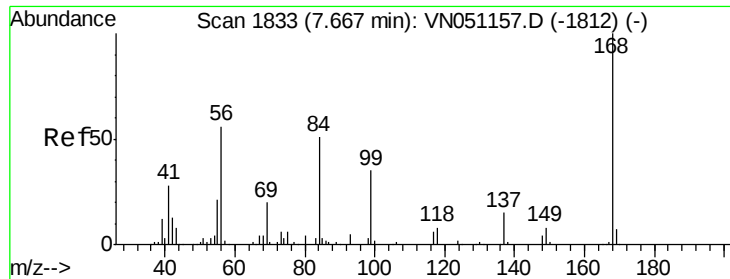
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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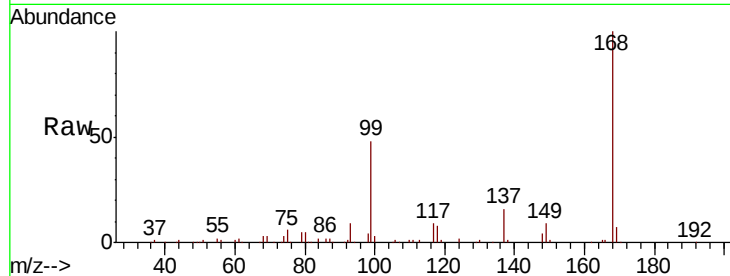


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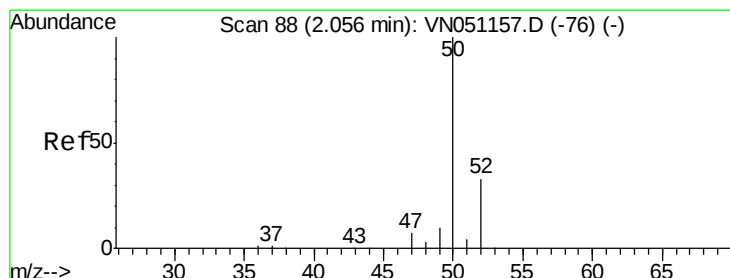
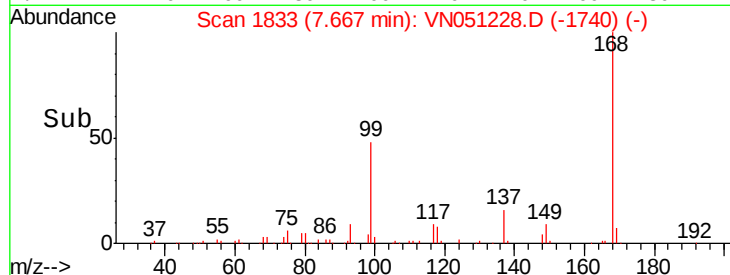
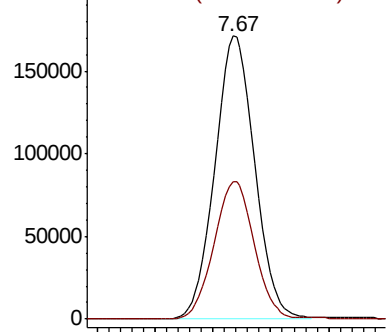
Pentafluorobenzene
 Concen: 50.00 ug/l
 RT: 7.67 min Scan# 1833
 Delta R.T. -0.00 min
 Lab File: VN051228.D
 Acq: 15 Sep 2018 17:33

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion:168 Resp: 409048
 Ion Ratio Lower Upper
 168 100
 99 48.4 38.3 57.5



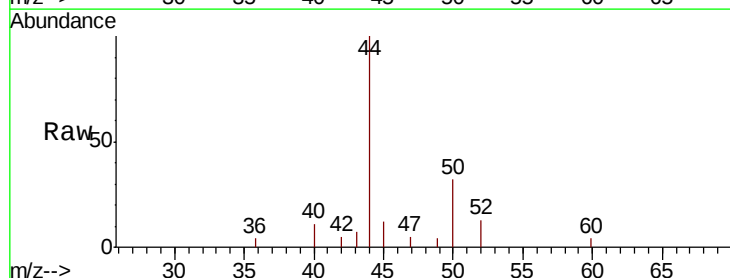
Abundance Ion 167.90 (167.60 to 168.60): VN051157.D (-1812) (-)
 Ion 98.90 (98.60 to 99.60): VN051157.D (-1812) (-)



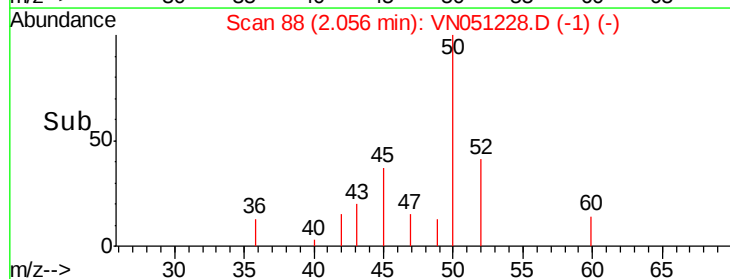
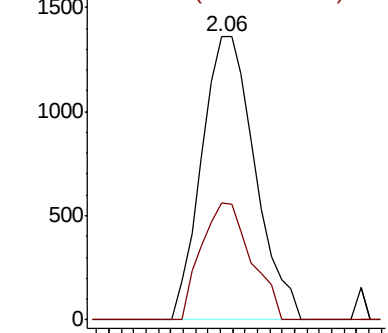
#3

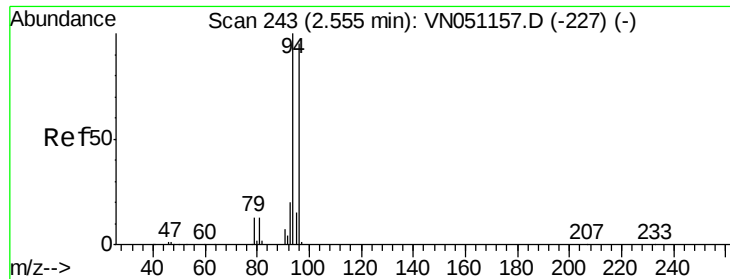
Chloromethane
 Concen: Below Cal
 RT: 2.06 min Scan# 88
 Delta R.T. 0.00 min
 Lab File: VN051228.D
 Acq: 15 Sep 2018 17:33

Tgt Ion: 50 Resp: 1632
 Ion Ratio Lower Upper
 50 100
 52 41.1 26.0 39.0#



Abundance Ion 49.90 (49.60 to 50.60): VN051157.D (-76) (-)
 Ion 51.90 (51.60 to 52.60): VN051157.D (-76) (-)





#5

Bromomethane

Concen: Below Cal

RT: 2.57 min Scan# 248

Delta R.T. 0.01 min

Lab File: VN051228.D

Acq: 15 Sep 2018 17:33

Instrument :

MSVOA_N

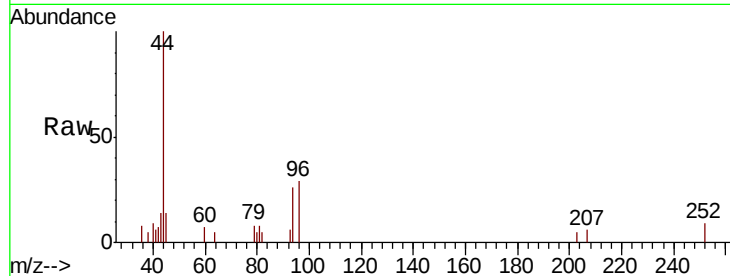
ClientSampled :

Tot Ion: 94 Resp: 1803

Ion Ratio Lower Upper

94 100

96 112.5 75.9 113.9

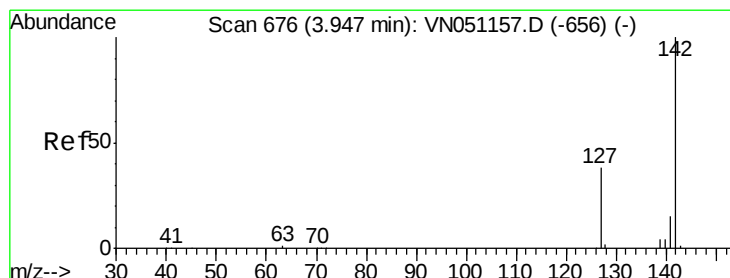
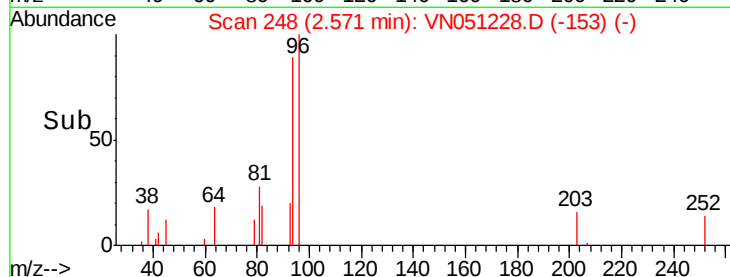


Abundance Ion 93.90 (93.60 to 94.60): VN051157.D (-227) (-)

Ion 95.90 (95.60 to 96.60): VN051157.D (-227) (-)

Time-->

2.55 2.57 2.60



#10

Methyl Iodide

Concen: 5.69 ug/l

RT: 3.96 min Scan# 679

Delta R.T. 0.01 min

Lab File: VN051228.D

Acq: 15 Sep 2018 17:33

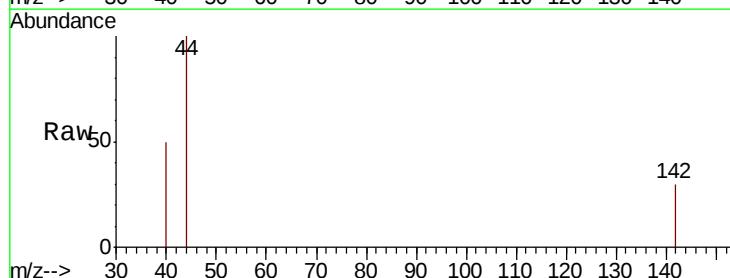
Tgt Ion: 142 Resp: 285

Ion Ratio Lower Upper

142 100

127 10.2 31.0 46.4#

141 0.0 11.3 16.9#



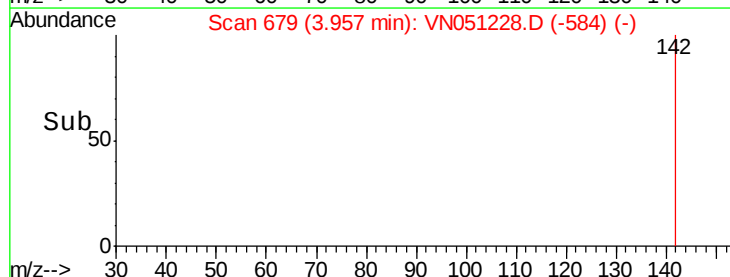
Abundance Ion 141.80 (141.50 to 142.50): VN051157.D (-656) (-)

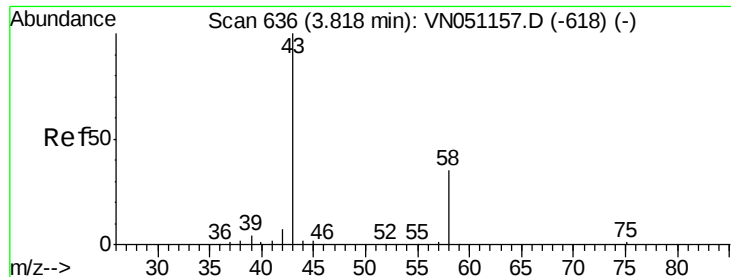
Ion 126.80 (126.50 to 127.50): VN051157.D (-656) (-)

Ion 140.80 (140.50 to 141.50): VN051157.D (-656) (-)

Time-->

3.94 3.96 3.98





#16

Acetone

Concen: 1.91 ug/l

RT: 3.82 min Scan# 638

Delta R.T. 0.01 min

Lab File: VN051228.D

Acq: 15 Sep 2018 17:33

Instrument :

MSVOA_N

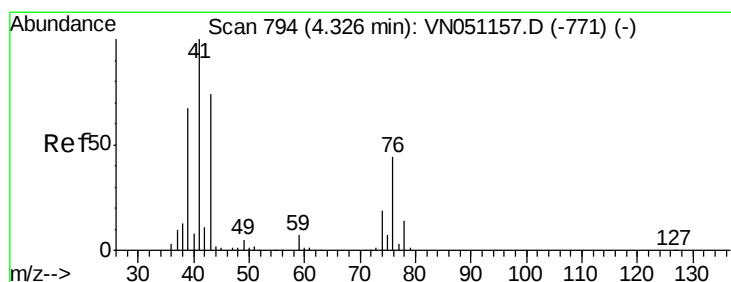
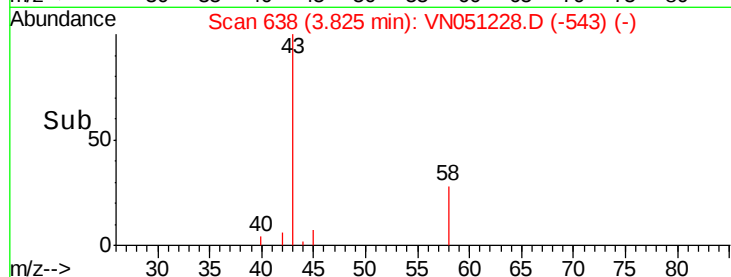
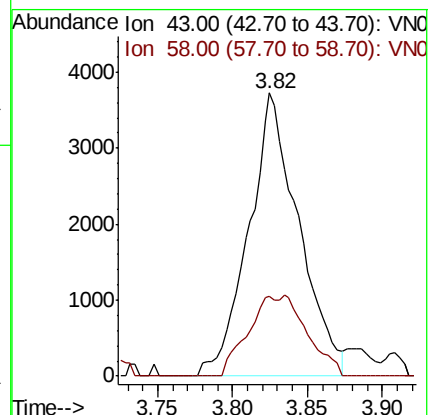
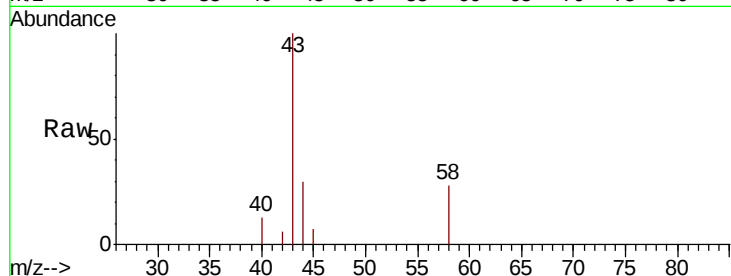
ClientSampled :

Tot Ion: 43 Resp: 8668

Ion Ratio Lower Upper

43 100

58 28.4 27.8 41.6



#18

Methyl Acetate

Concen: 3.43 ug/l

RT: 4.33 min Scan# 796

Delta R.T. 0.01 min

Lab File: VN051228.D

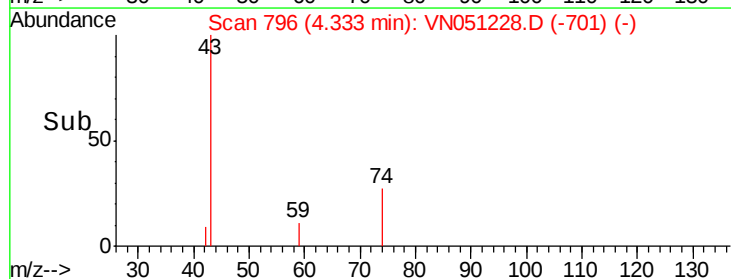
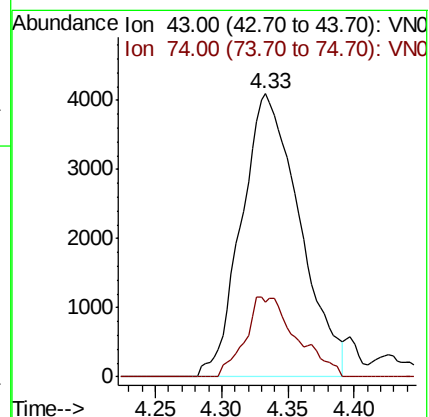
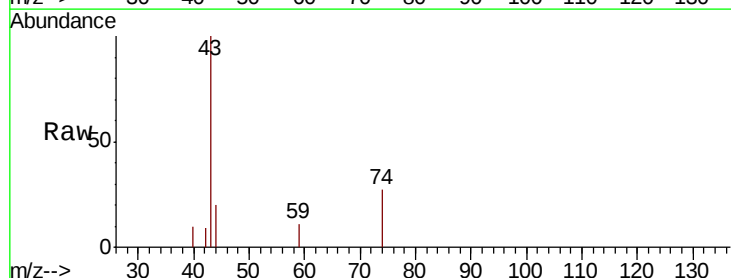
Acq: 15 Sep 2018 17:33

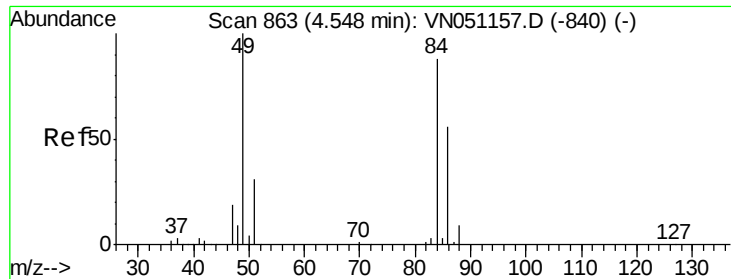
Tgt Ion: 43 Resp: 12516

Ion Ratio Lower Upper

43 100

74 24.9 20.7 31.1

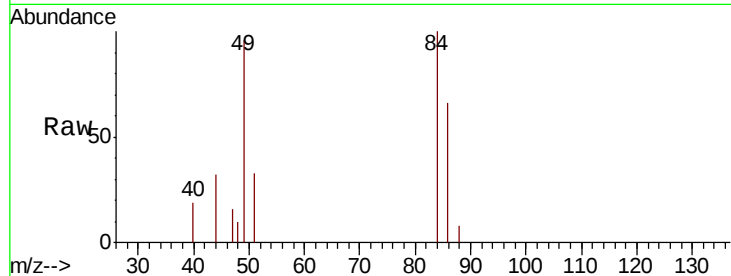




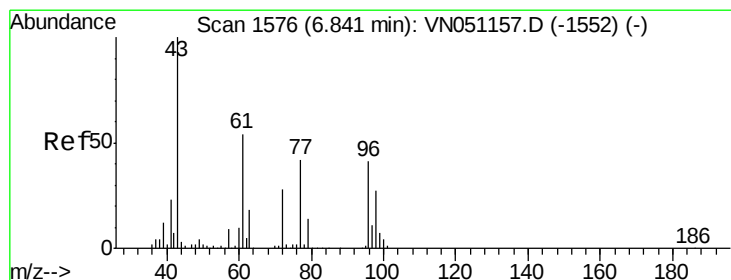
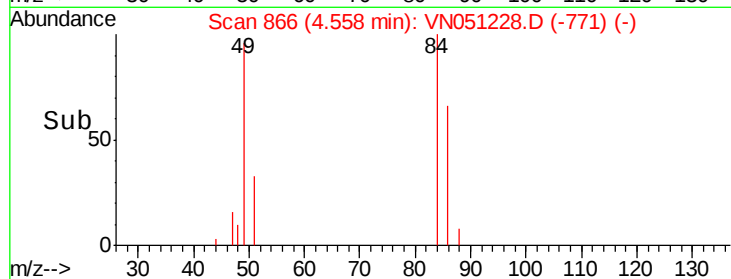
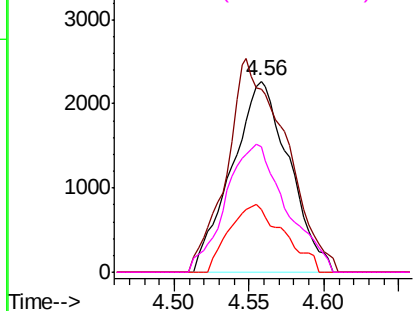
#20
Methvlene Chloride
Concen: 1.20 ug/l
RT: 4.56 min Scan# 866
Delta R.T. 0.01 min
Lab File: VN051228.D
Acq: 15 Sep 2018 17:33

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion:	84	Resp:	6054
Ion	Ratio	Lower	Upper
84	100		
49	95.5	90.2	135.2
51	33.1	28.4	42.6
86	65.6	51.8	77.8

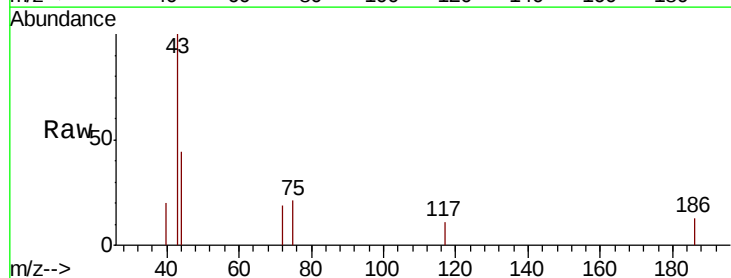


Abundance Ion 83.90 (83.60 to 84.60): VN0
Ion 48.90 (48.60 to 49.60): VN0
Ion 50.90 (50.60 to 51.60): VN0
Ion 85.90 (85.60 to 86.60): VN0

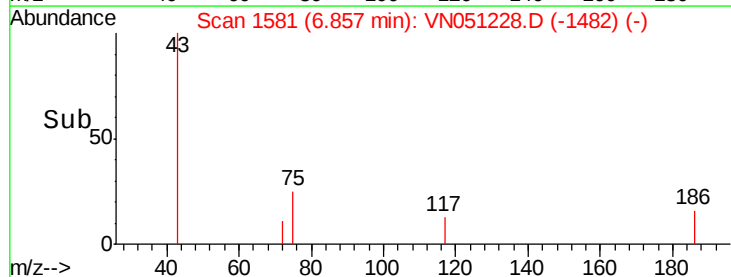
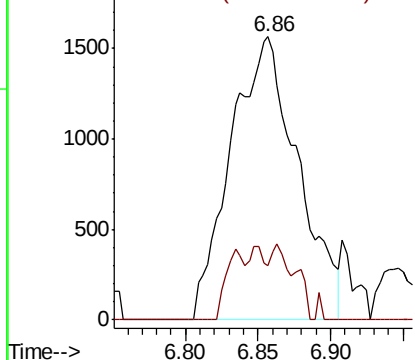


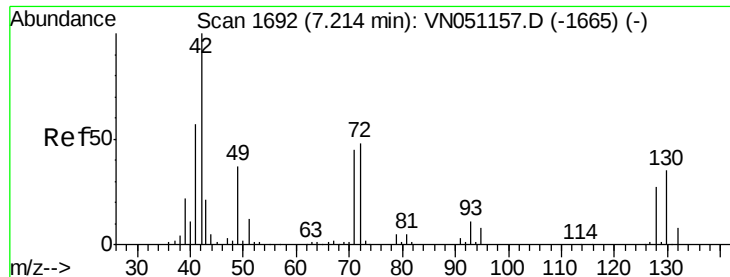
#25
2-Butanone
Concen: 2.81 ug/l
RT: 6.86 min Scan# 1581
Delta R.T. 0.02 min
Lab File: VN051228.D
Acq: 15 Sep 2018 17:33

Tgt Ion:	43	Resp:	5027
Ion	Ratio	Lower	Upper
43	100		
72	19.2	23.0	34.6#



Abundance Ion 43.00 (42.70 to 43.70): VN0
Ion 72.00 (71.70 to 72.70): VN0





#29

Tetrahydrofuran

Concen: 0.29 ug/l

RT: 7.22 min Scan# 1694

Delta R.T. 0.01 min

Lab File: VN051228.D

Acq: 15 Sep 2018 17:33

Instrument :

MSVOA_N

ClientSampled :

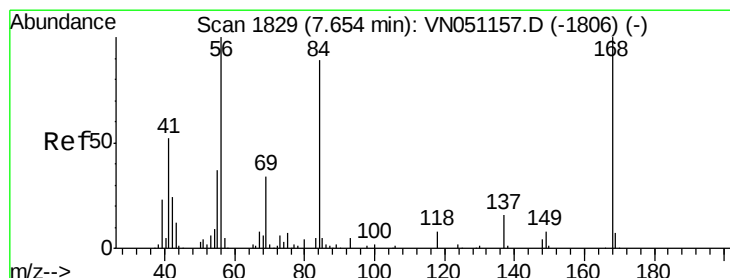
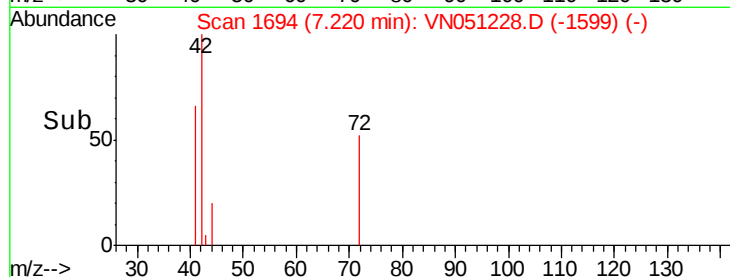
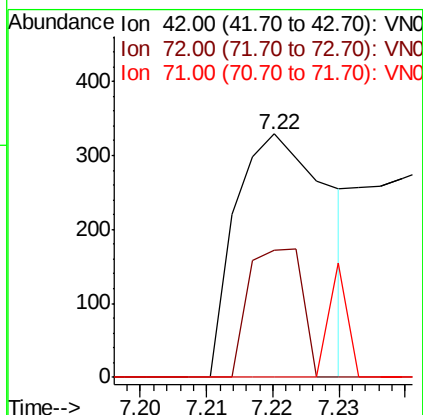
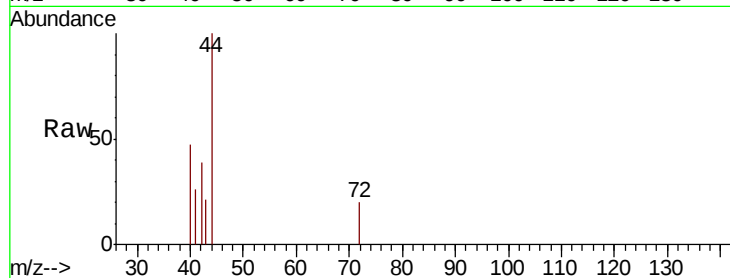
Tot Ion: 42 Resp: 322

Ion Ratio Lower Upper

42 100

72 30.1 37.4 56.0#

71 9.3 34.7 52.1#



#31

Cyclohexane

Concen: 0.59 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. 0.01 min

Lab File: VN051228.D

Acq: 15 Sep 2018 17:33

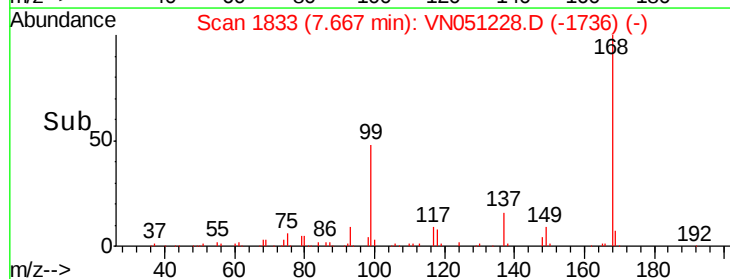
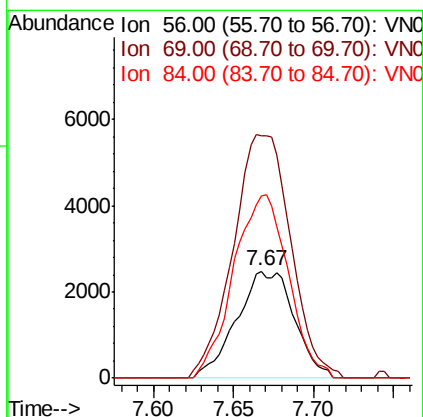
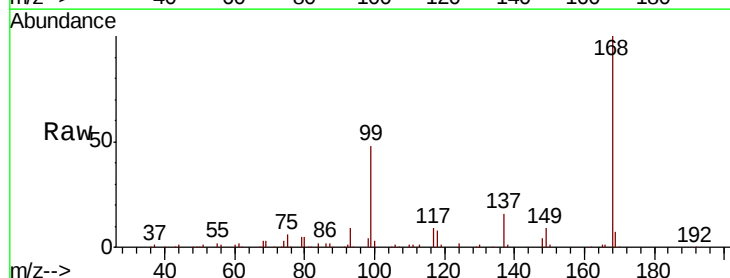
Tgt Ion: 56 Resp: 6119

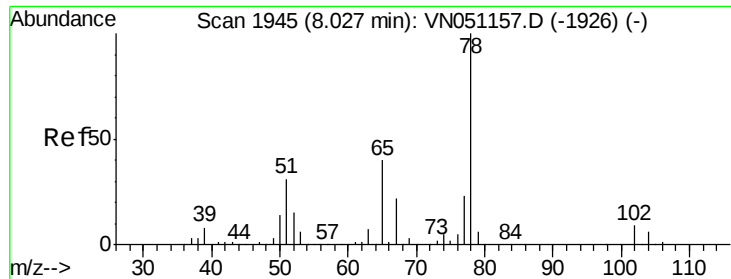
Ion Ratio Lower Upper

56 100

69 226.0 26.3 39.5#

84 170.3 69.4 104.0#

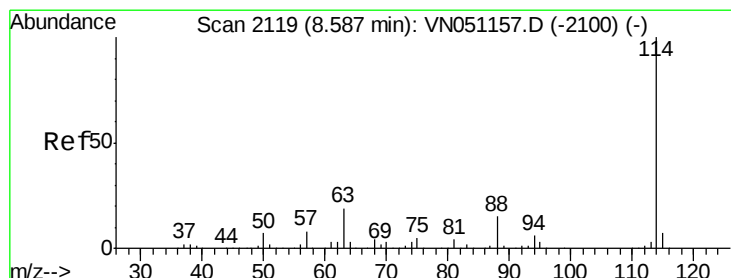
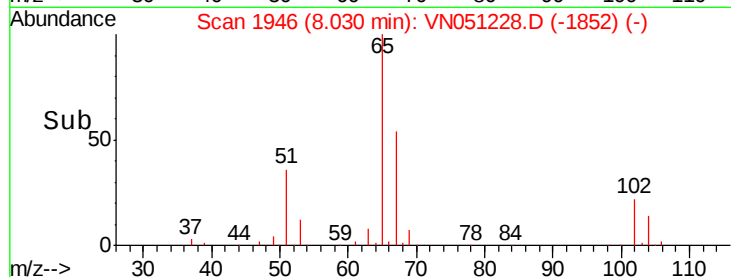
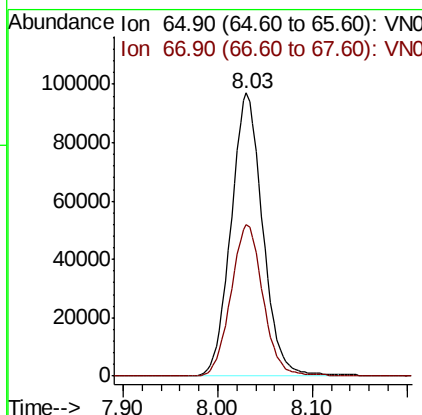
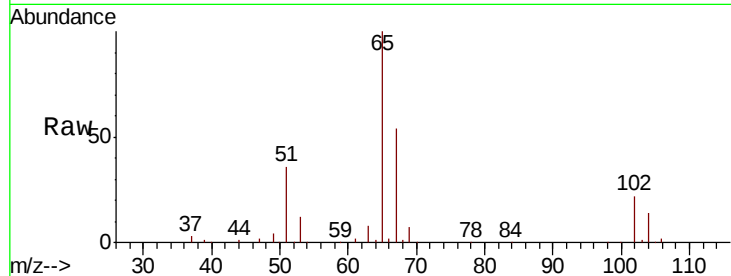




#33
 1,2-Dichloroethane-d4
 Concen: 49.59 ug/l
 RT: 8.03 min Scan# 1946
 Delta R.T. 0.00 min
 Lab File: VN051228.D
 Acq: 15 Sep 2018 17:33

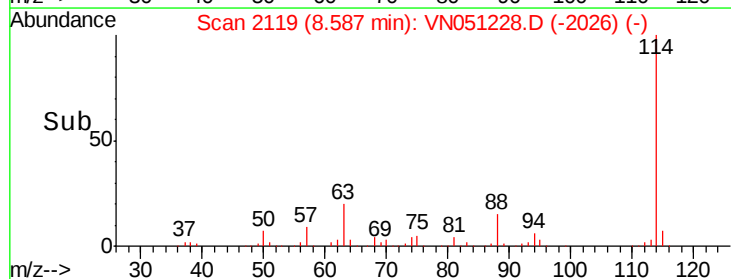
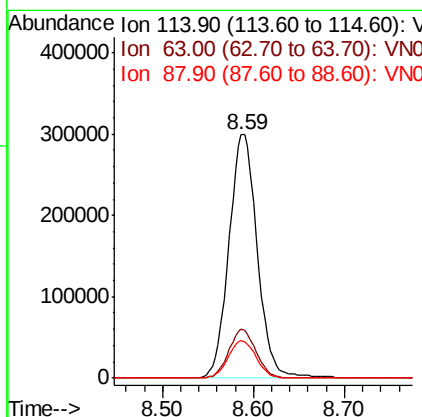
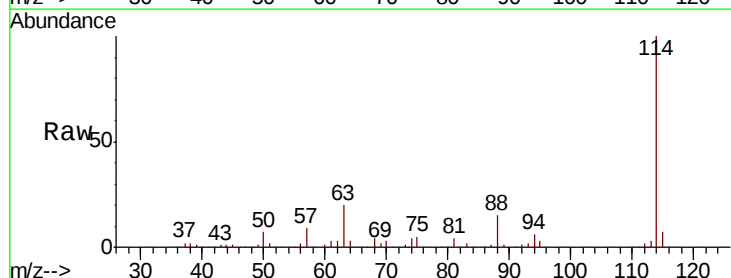
Instrument :
 MSVOA_N
 ClientSampled :

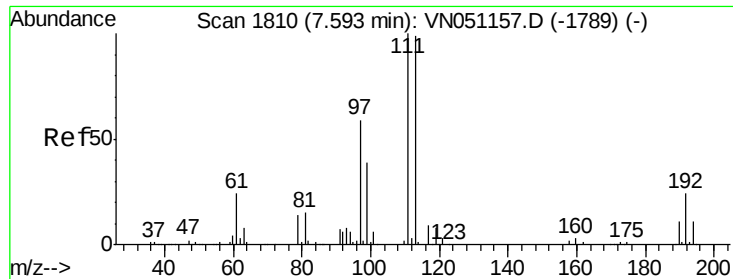
Tot Ion: 65 Resp: 225760
 Ion Ratio Lower Upper
 65 100
 67 53.8 0.0 112.0



#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. -0.00 min
 Lab File: VN051228.D
 Acq: 15 Sep 2018 17:33

Tgt Ion: 114 Resp: 647182
 Ion Ratio Lower Upper
 114 100
 63 19.9 0.0 37.8
 88 15.2 0.0 30.8

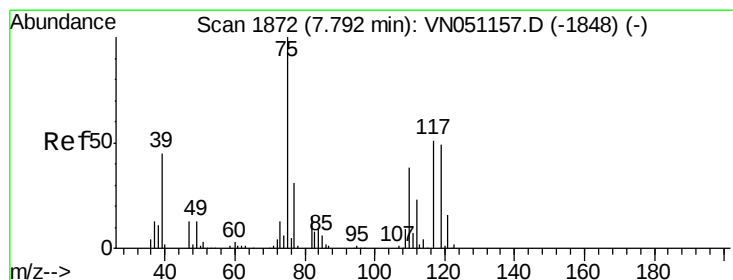
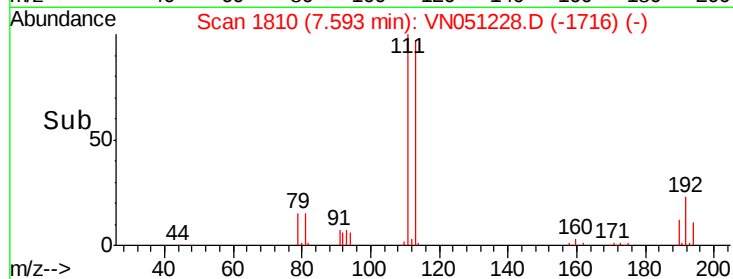
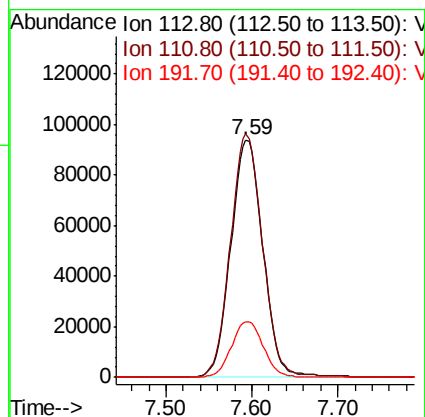
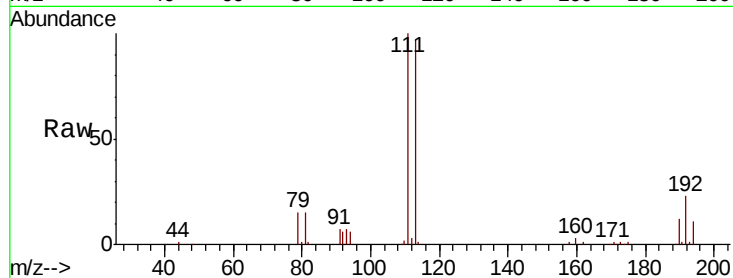




#35
 Dibromofluoromethane
 Concen: 50.08 ug/l
 RT: 7.59 min Scan# 1810
 Delta R.T. 0.00 min
 Lab File: VN051228.D
 Acq: 15 Sep 2018 17:33

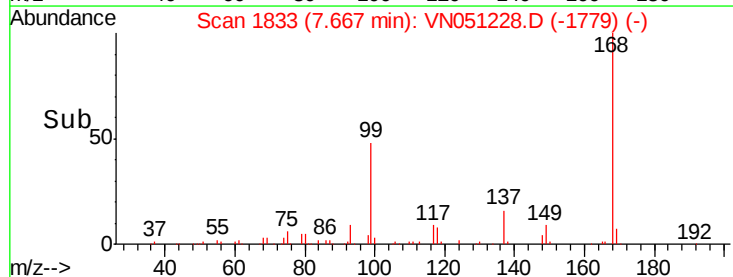
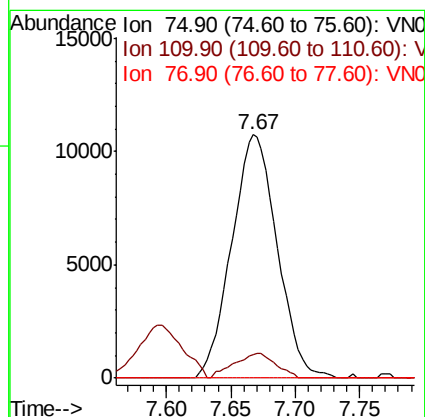
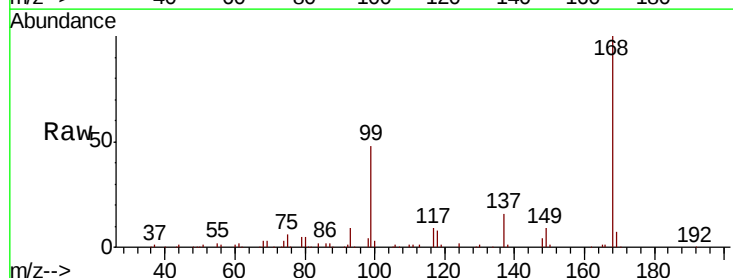
Instrument :
 MSVOA_N
 ClientSampleId :

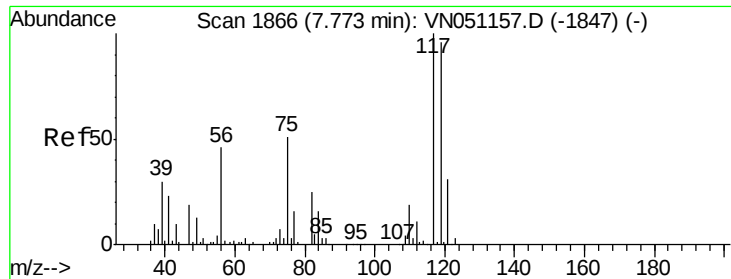
Tot Ion	Ratio	Lower	Upper
113	100		
111	102.7	83.0	124.6
192	23.3	18.7	28.1



#36
 1,1-Dichloropropene
 Concen: 3.71 ug/l
 RT: 7.67 min Scan# 1833
 Delta R.T. -0.13 min
 Lab File: VN051228.D
 Acq: 15 Sep 2018 17:33

Tgt Ion	Ratio	Lower	Upper
75	100		
110	9.3	18.6	55.8#
77	0.0	25.2	37.8#

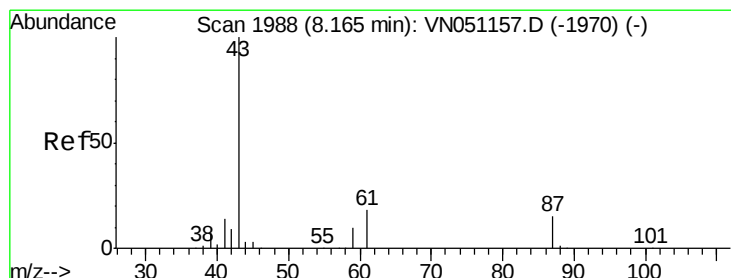
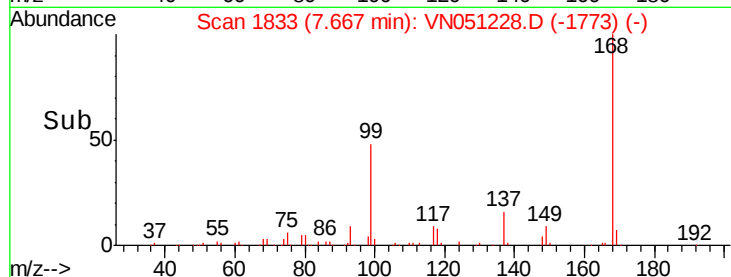
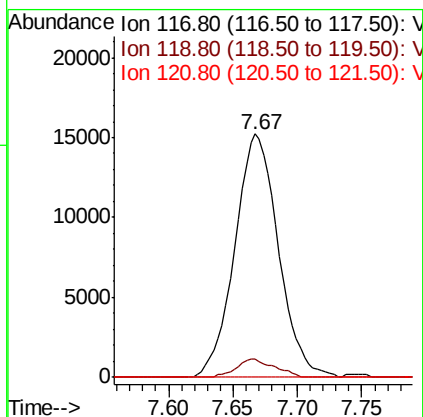
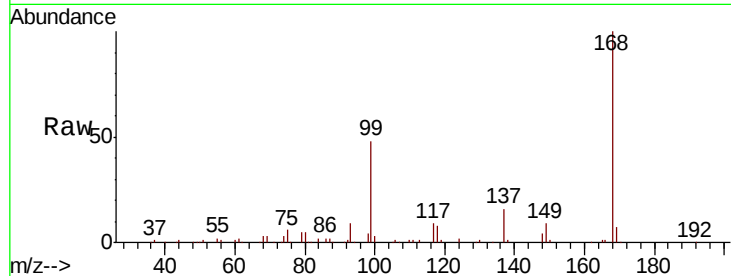




#38
Carbon Tetrachloride
Concen: 5.11 ug/l
RT: 7.67 min Scan# 1833
Delta R.T. -0.11 min
Lab File: VN051228.D
Acq: 15 Sep 2018 17:33

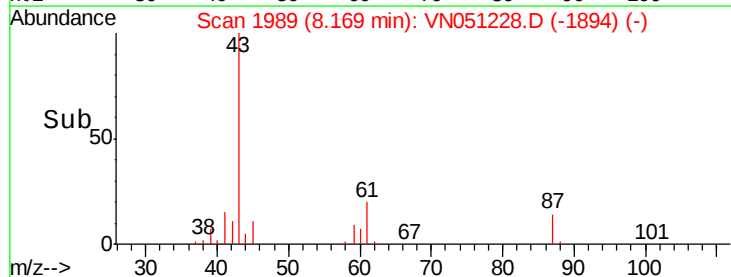
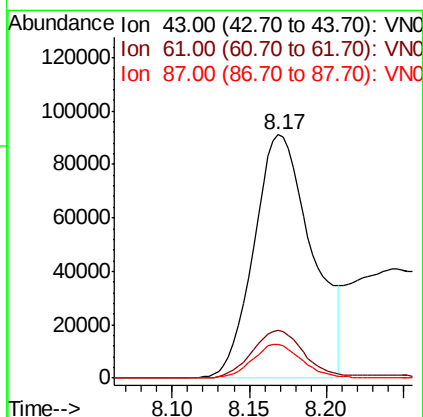
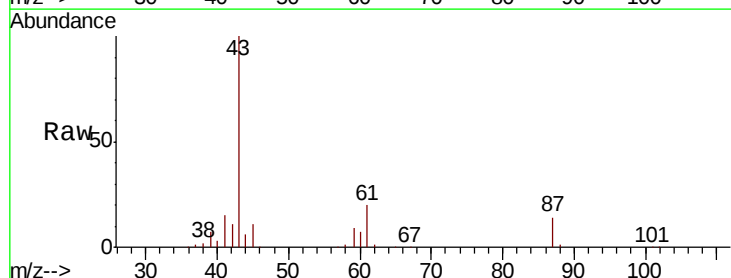
Instrument :
MSVOA_N
ClientSampleId :

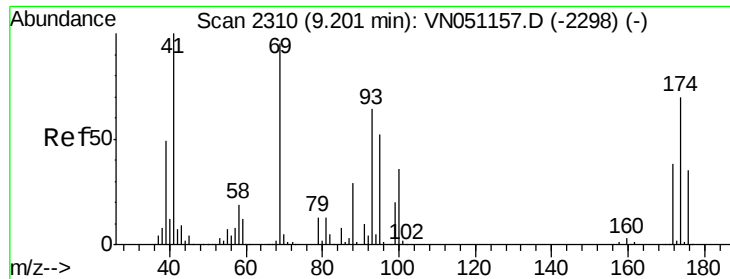
Tot Ion:117 Resp: 35735
Ion Ratio Lower Upper
117 100
119 7.7 76.8 115.2#
121 0.0 24.6 36.8#



#43
Isopropyl Acetate
Concen: 32.76 ug/l
RT: 8.17 min Scan# 1989
Delta R.T. 0.01 min
Lab File: VN051228.D
Acq: 15 Sep 2018 17:33

Tgt Ion: 43 Resp: 237889
Ion Ratio Lower Upper
43 100
61 17.4 25.0 37.6#
87 11.8 11.8 17.8#

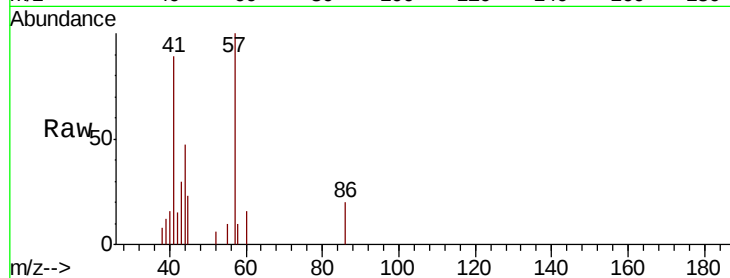




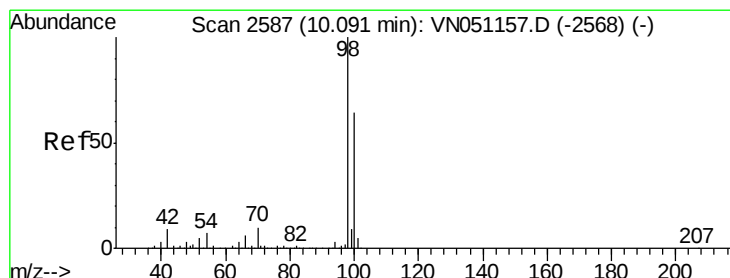
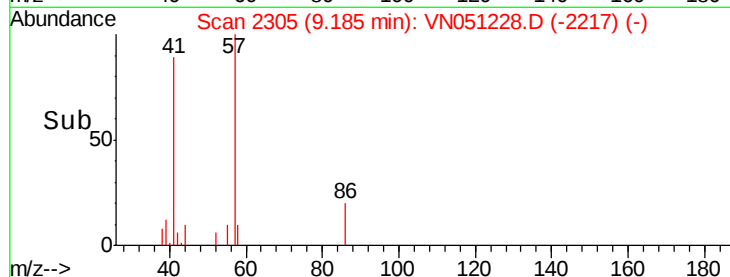
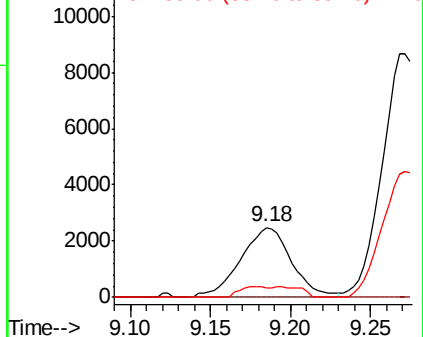
#48
Methvl methacrylate
Concen: 1.53 ug/l
RT: 9.18 min Scan# 2305
Delta R.T. -0.02 min
Lab File: VN051228.D
Acq: 15 Sep 2018 17:33

Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 41 Resp: 5406
Ion Ratio Lower Upper
41 100
69 0.0 77.7 116.5#
39 9.2 41.6 62.4#

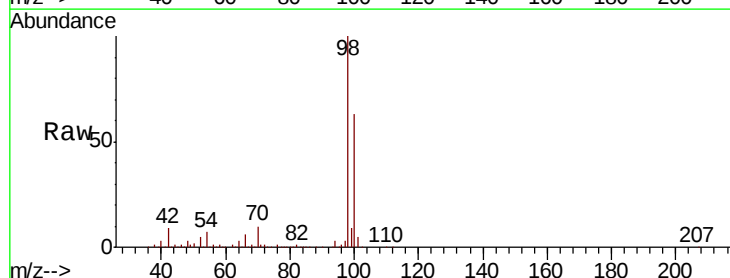


Abundance Ion 41.00 (40.70 to 41.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 39.00 (38.70 to 39.70): VN0

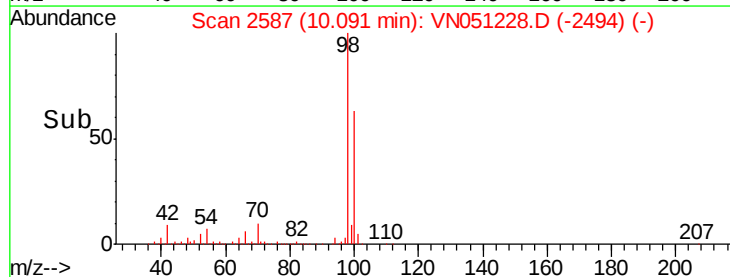
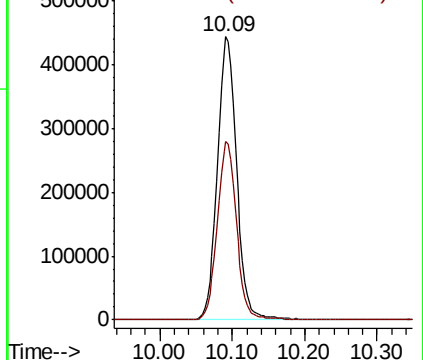


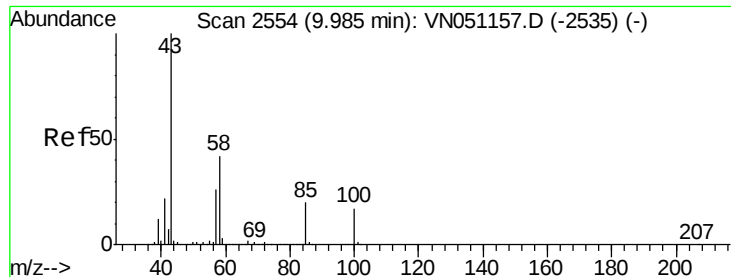
#50
Toluene-d8
Concen: 44.36 ug/l
RT: 10.09 min Scan# 2587
Delta R.T. -0.00 min
Lab File: VN051228.D
Acq: 15 Sep 2018 17:33

Tgt Ion: 98 Resp: 818586
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

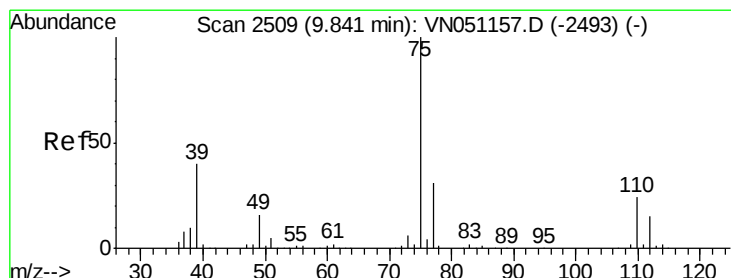
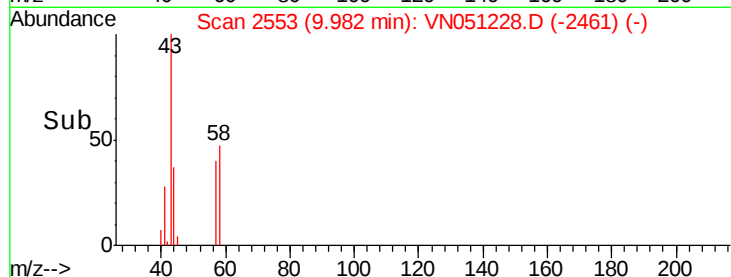
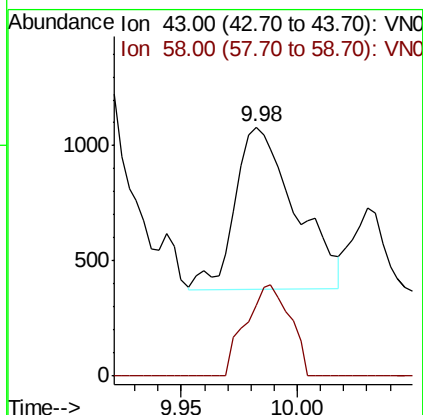
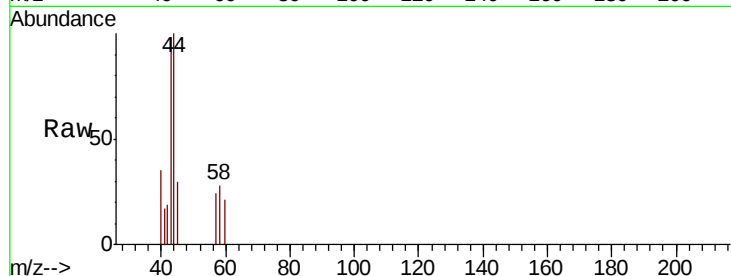




#51
4-Methyl-2-Pentanone
Concen: 0.32 ug/l
RT: 9.98 min Scan# 2553
Delta R.T. -0.00 min
Lab File: VN051228.D
Acq: 15 Sep 2018 17:33

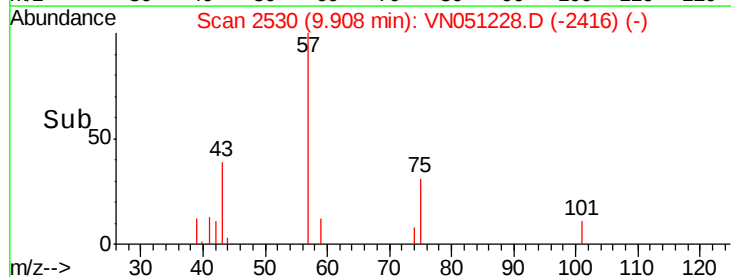
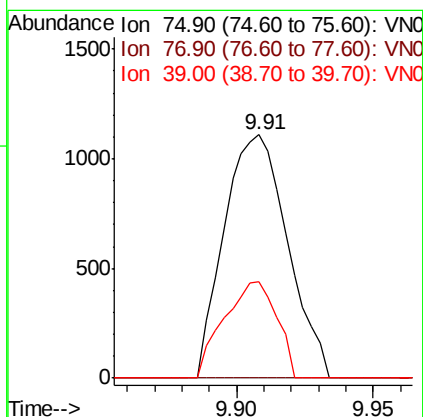
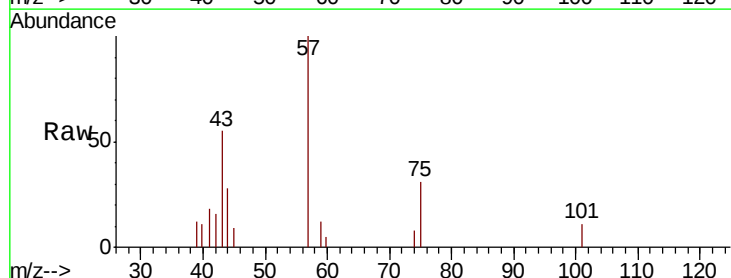
Instrument :
MSVOA_N
ClientSampled :

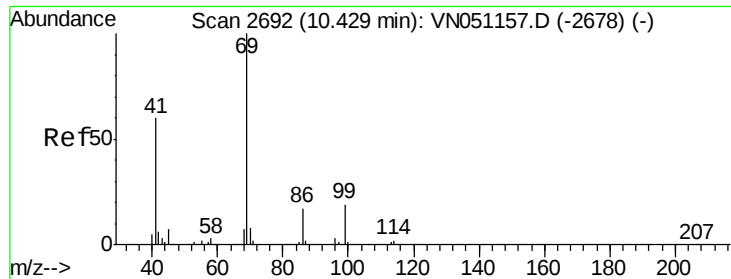
Tot Ion: 43 Resp: 1279
Ion Ratio Lower Upper
43 100
58 40.9 33.5 50.3



#54
cis-1,3-Dichloropropene
Concen: 0.22 ug/l
RT: 9.91 min Scan# 2530
Delta R.T. 0.07 min
Lab File: VN051228.D
Acq: 15 Sep 2018 17:33

Tgt Ion: 75 Resp: 1791
Ion Ratio Lower Upper
75 100
77 0.0 25.7 38.5#
39 39.8 31.9 47.9





#56

Ethyl methacrylate

Concen: 2.56 ug/l

RT: 10.23 min Scan# 2629

Delta R.T. -0.20 min

Lab File: VN051228.D

Acq: 15 Sep 2018 17:33

Instrument :

MSVOA_N

ClientSampled :

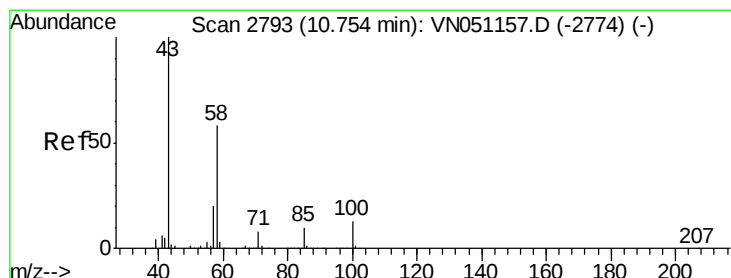
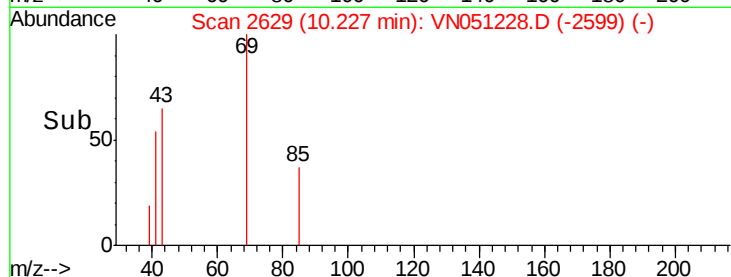
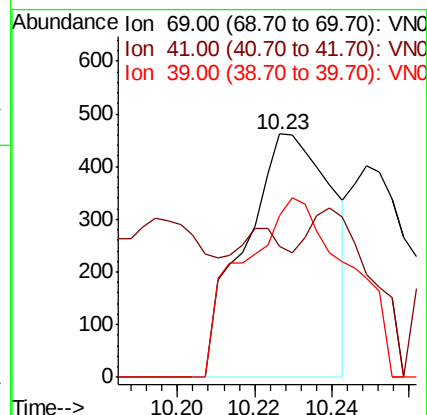
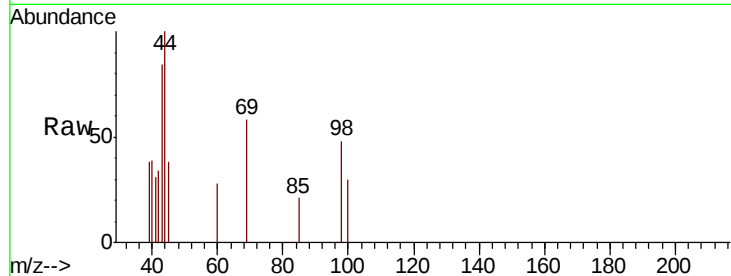
Tot Ion: 69 Resp: 726

Ion Ratio Lower Upper

69 100

41 52.3 47.8 71.8

39 89.7 23.0 34.4#



#59

2-Hexanone

Concen: 4.74 ug/l

RT: 10.76 min Scan# 2796

Delta R.T. 0.01 min

Lab File: VN051228.D

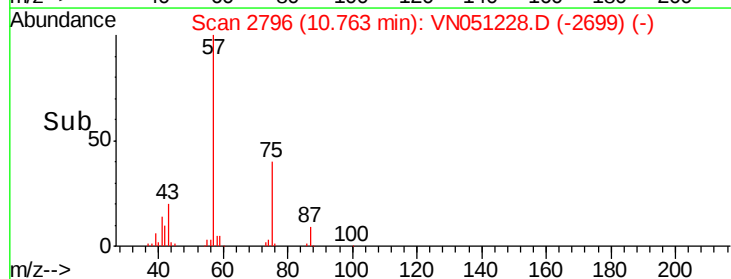
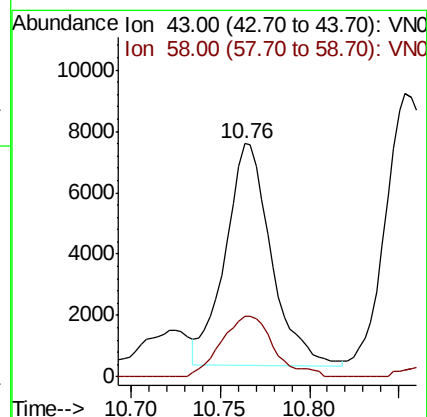
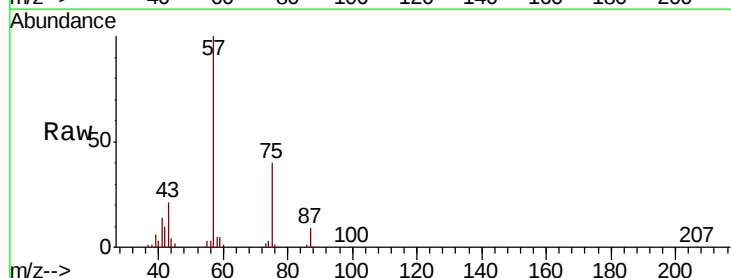
Acq: 15 Sep 2018 17:33

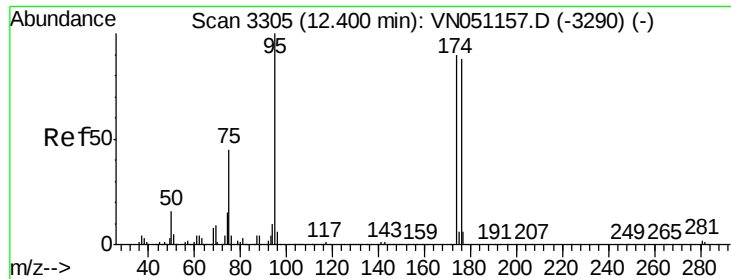
Tgt Ion: 43 Resp: 12916

Ion Ratio Lower Upper

43 100

58 31.4 29.3 88.0

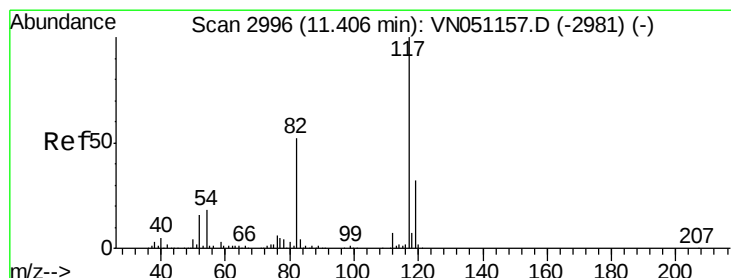
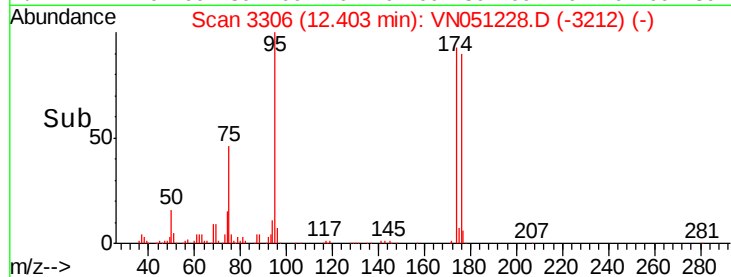
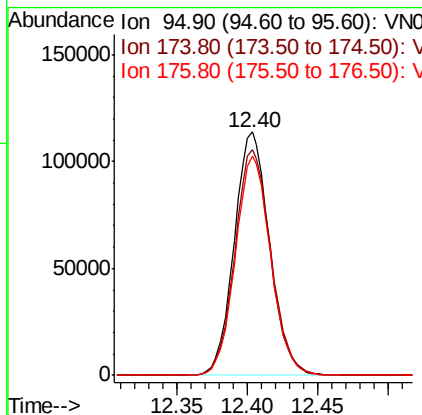
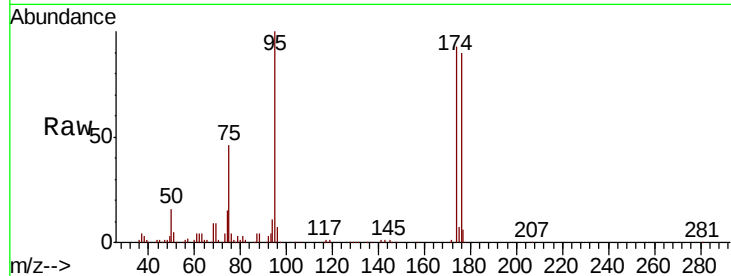




#62
4-Bromofluorobenzene
Concen: 32.65 ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.00 min
Lab File: VN051228.D
Acq: 15 Sep 2018 17:33

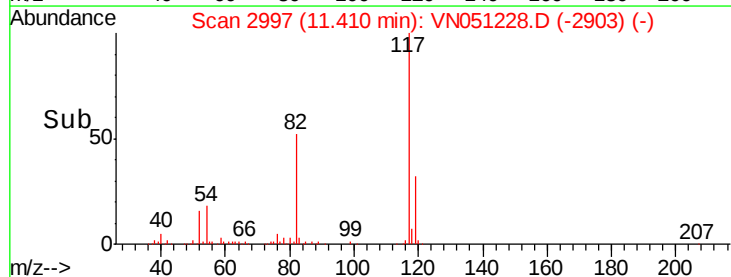
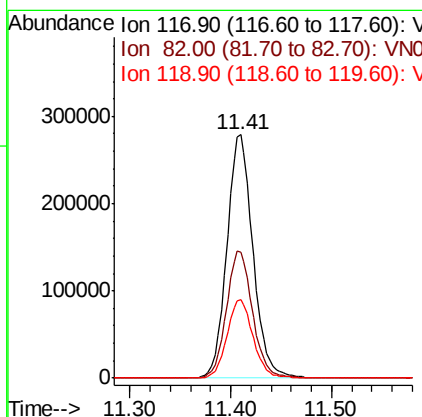
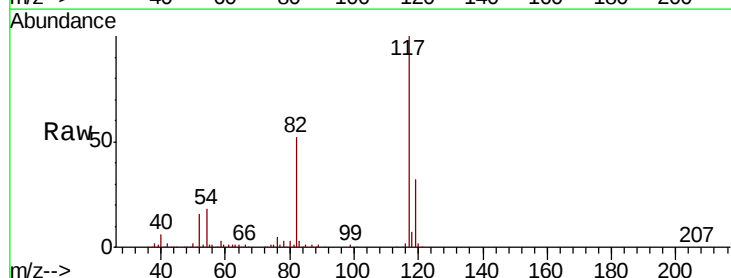
Instrument :
MSVOA_N
ClientSampleId :

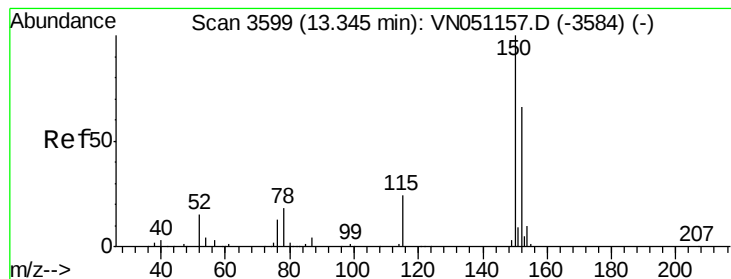
Tot Ion	95	Resp	199280
Ion Ratio	Lower	Upper	
95	100		
174	94.6	0.0	184.8
176	90.0	0.0	178.6



#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 11.41 min Scan# 2997
Delta R.T. 0.00 min
Lab File: VN051228.D
Acq: 15 Sep 2018 17:33

Tgt Ion	117	Resp	502872
Ion Ratio	Lower	Upper	
117	100		
82	51.8	41.8	62.6
119	32.3	26.2	39.2





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 13.35 min Scan# 3599

Delta R.T. 0.00 min

Lab File: VN051228.D

Acq: 15 Sep 2018 17:33

Instrument :

MSVOA_N

ClientSampleId :

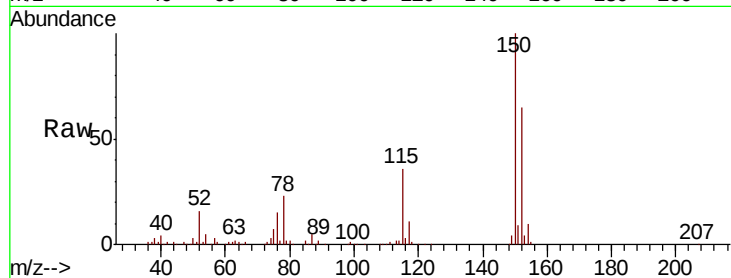
Tot Ion:152 Resp: 135541

Ion Ratio Lower Upper

152 100

115 54.6 28.2 84.7

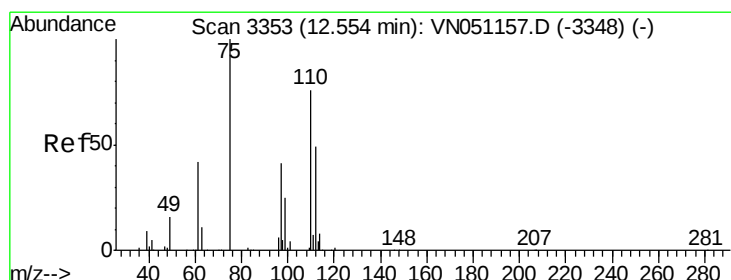
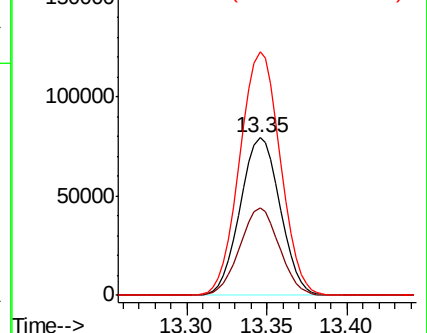
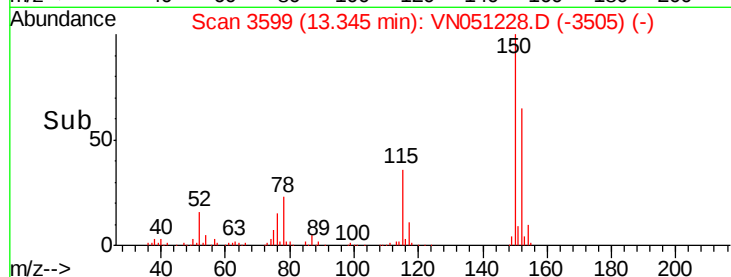
150 156.2 0.0 349.0



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: 42.98 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. -0.15 min

Lab File: VN051228.D

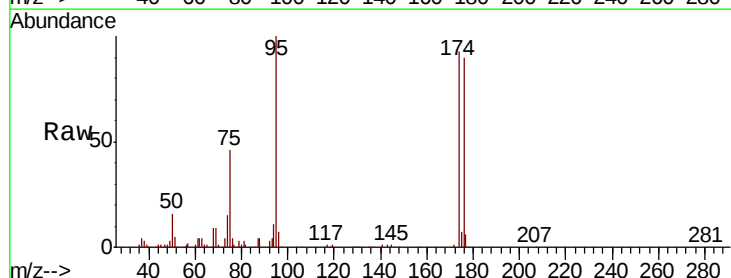
Acq: 15 Sep 2018 17:33

Tgt Ion: 75 Resp: 90765

Ion Ratio Lower Upper

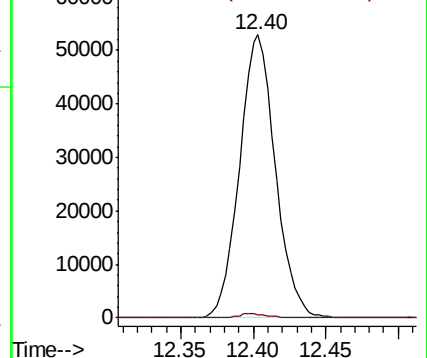
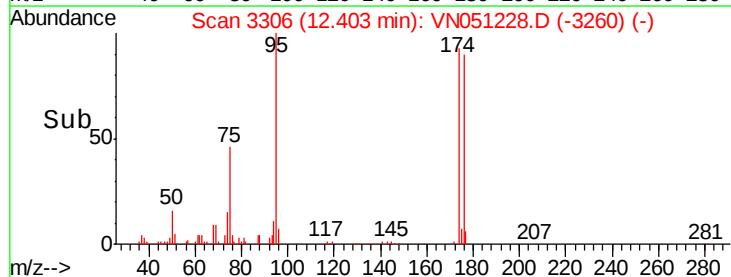
75 100

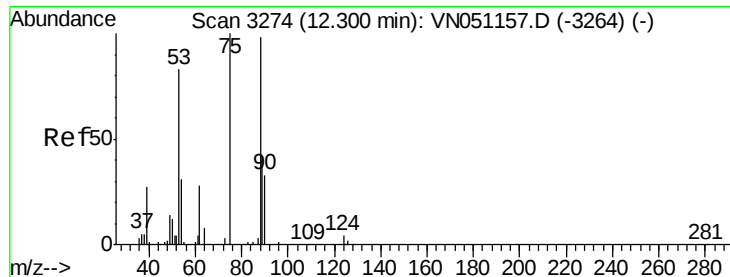
77 1.2 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): V

Ion 77.00 (76.70 to 77.70): V

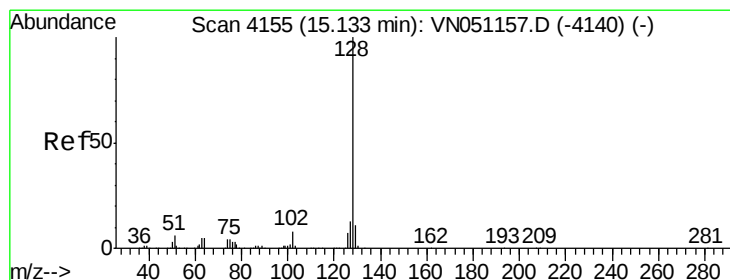
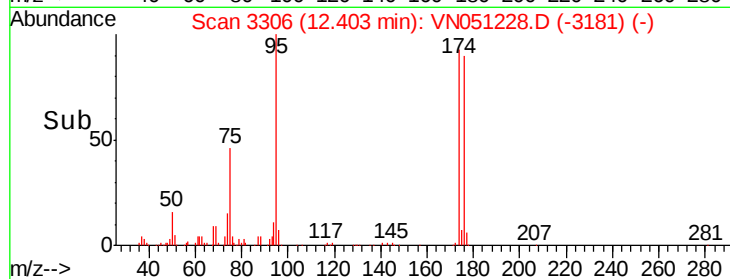
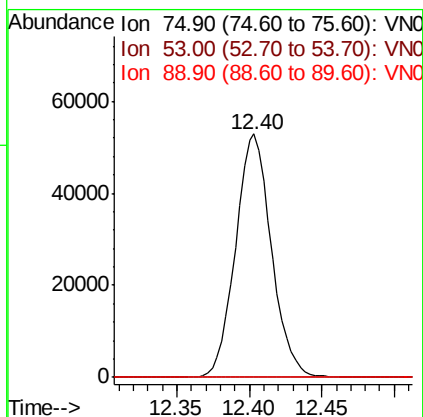
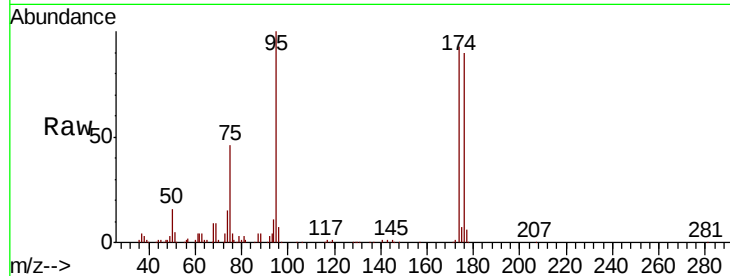




#81
trans-1,4-Dichloro-2-butene
Concen: 127.18 ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.10 min
Lab File: VN051228.D
Acq: 15 Sep 2018 17:33

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion: 75 Resp: 90765
Ion Ratio Lower Upper
75 100
53 0.1 67.8 101.8#
89 0.0 36.0 54.0#



#95
Naphthalene
Concen: 5.36 ug/l
RT: 15.13 min Scan# 4154
Delta R.T. -0.00 min
Lab File: VN051228.D
Acq: 15 Sep 2018 17:33

Tgt Ion:128 Resp: 118
Ion Ratio Lower Upper
128 100
127 0.0 10.6 15.8#
129 0.0 8.6 12.8#

