

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN081518\
 Data File : VN050659.D
 Acq On : 15 Aug 2018 16:52
 Operator : MD\SY
 Sample : J4465-16
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 953-MW-20(22)

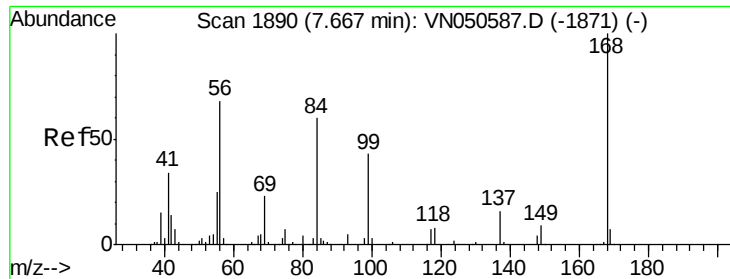
Quant Time: Aug 16 01:30:48 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N081418W.M
 Quant Title : SW846 8260
 QLast Update : Tue Aug 14 08:07:08 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	643074	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1003397	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	891849	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	321995	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.03	65	429727	53.01	ug/l	0.00
Spiked Amount	50.000		Recovery	=	106.02%	
35) Dibromofluoromethane	7.59	113	403612	50.38	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.76%	
50) Toluene-d8	10.09	98	1439407	47.74	ug/l	0.00
Spiked Amount	50.000		Recovery	=	95.48%	
62) 4-Bromofluorobenzene	12.40	95	396703	39.83	ug/l	0.00
Spiked Amount	50.000		Recovery	=	79.66%	

Target Compounds				Qvalue		
3) Chloromethane	2.06	50	2207	Below Cal	#	82
5) Bromomethane	2.57	94	2605	Below Cal		90
6) Chloroethane	2.70	64	249	Below Cal	#	43
10) Methyl Iodide	3.95	142	604	7.04	ug/l #	54
14) Allyl chloride	4.07	41	3596	0.33	ug/l #	72
16) Acetone	3.82	43	16695	6.84	ug/l	99
18) Methyl Acetate	4.34	43	2767	Below Cal	#	65
20) Methylene Chloride	4.55	84	2326	Below Cal		90
25) 2-Butanone	6.85	43	2500	0.75	ug/l #	48
27) cis-1,2-Dichloroethene	6.83	96	10367	1.23	ug/l	88
29) Tetrahydrofuran	7.23	42	708	0.41	ug/l #	58
31) Cyclohexane	7.67	56	11577	0.60	ug/l #	1
36) 1,1-Dichloropropene	7.66	75	43792	3.92	ug/l #	49
38) Carbon Tetrachloride	7.67	117	56193	4.85	ug/l #	17
43) Isopropyl Acetate	8.25	43	5657	0.49	ug/l #	60
44) Trichloroethene	8.84	130	27991	3.08	ug/l	97
48) Methyl methacrylate	9.43	41	2647	0.46	ug/l #	21
60) Dibromochloromethane	10.63	129	28882	3.45	ug/l #	10
64) Tetrachloroethene	10.63	164	33996	4.10	ug/l	95
71) Bromoform	12.40	173	2187	0.40	ug/l #	1
75) 1,1,2,2-Tetrachloroethane	12.40	83	159	Below Cal	#	1
76) 1,2,3-Trichloropropane	12.40	75	190671	36.37	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	190671	131.65	ug/l #	13

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



#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 7.67 min Scan# 1890

Delta R.T. 0.00 min

Lab File: VN050659.D

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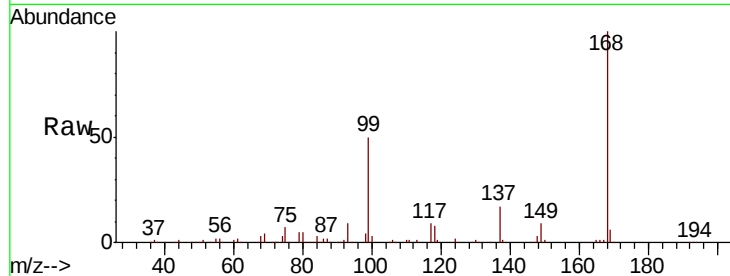
953-MW-20(22)

Tot Ion:168 Resp: 643074

Ion Ratio Lower Upper

168 100

99 50.5 40.8 61.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.67

250000

200000

150000

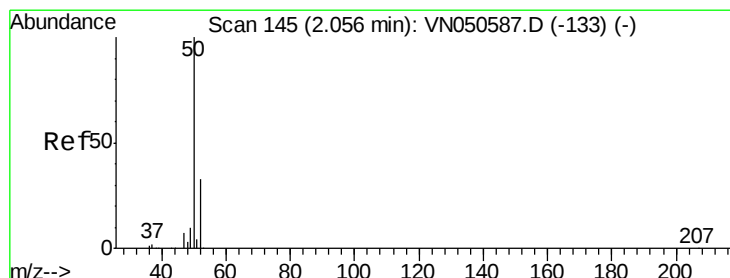
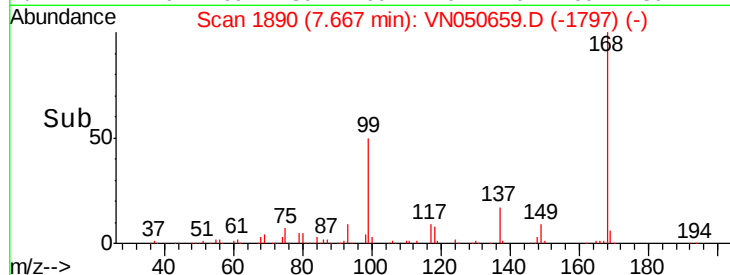
100000

50000

0

7.60 7.70 7.80

Time-->



#3

Chloromethane

Concen: Below Cal

RT: 2.06 min Scan# 146

Delta R.T. 0.00 min

Lab File: VN050659.D

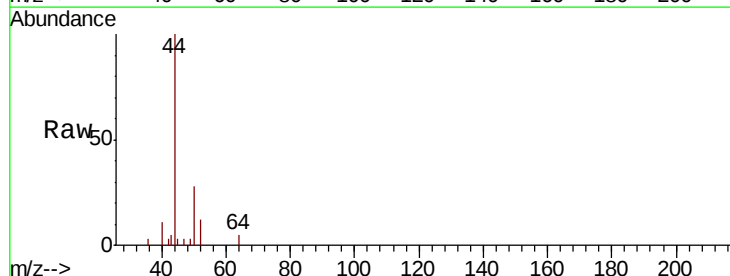
Acq: 15 Aug 2018 16:52

Tgt Ion: 50 Resp: 2207

Ion Ratio Lower Upper

50 100

52 42.7 26.0 39.0#



Abundance Ion 49.90 (49.60 to 50.60): VN

Ion 51.90 (51.60 to 52.60): VN

2.06

1500

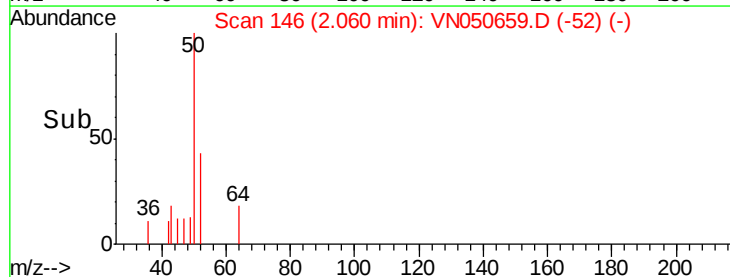
1000

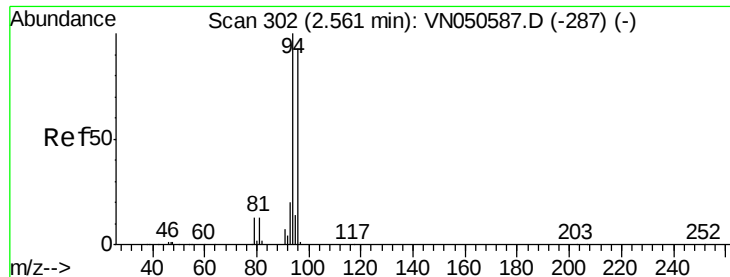
500

0

2.05 2.10

Time-->





#5

Bromomethane

Concen: Below Cal

RT: 2.57 min Scan# 305

Delta R.T. 0.01 min

Lab File: VN050659.D

Acq: 15 Aug 2018 16:52

Instrument :

MSVOA_N

ClientSampleId :

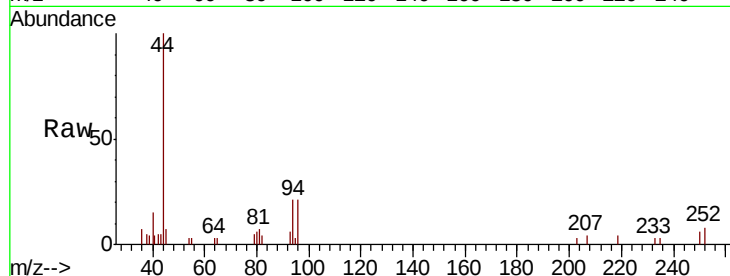
953-MW-20(22)

Tot Ion: 94 Resp: 2605

Ion Ratio Lower Upper

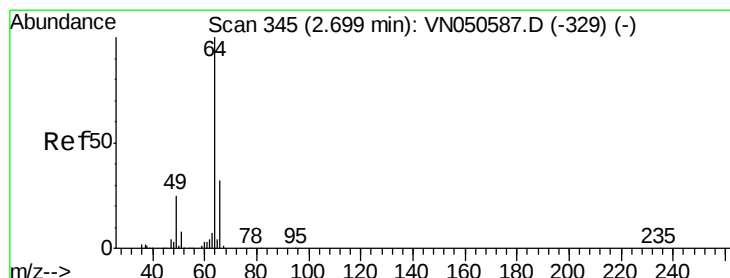
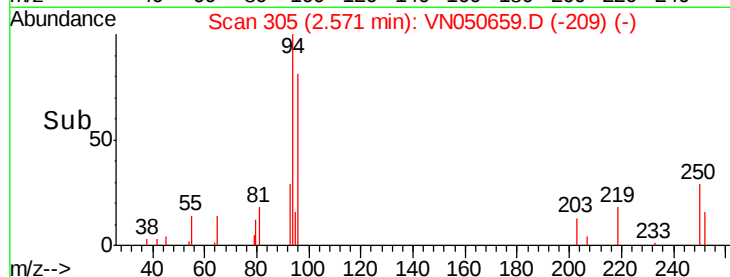
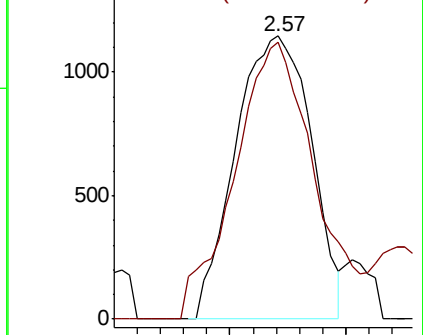
94 100

96 82.9 74.0 111.0



Abundance Ion 93.90 (93.60 to 94.60): VN0

Ion 95.90 (95.60 to 96.60): VN0



#6

Chloroethane

Concen: Below Cal

RT: 2.70 min Scan# 346

Delta R.T. 0.00 min

Lab File: VN050659.D

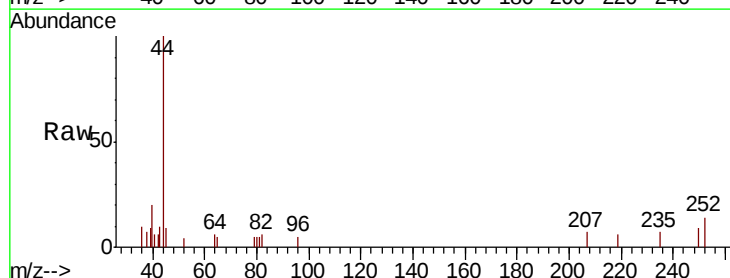
Acq: 15 Aug 2018 16:52

Tgt Ion: 64 Resp: 249

Ion Ratio Lower Upper

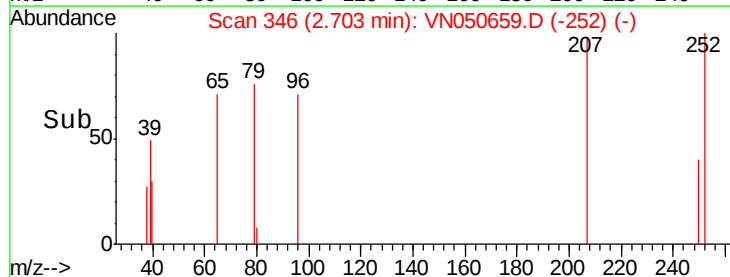
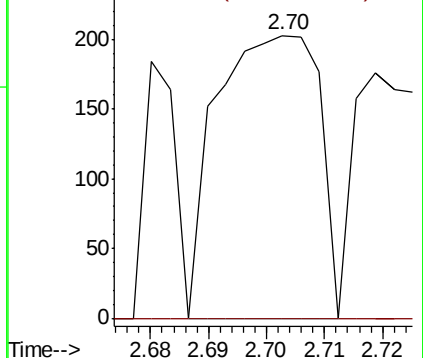
64 100

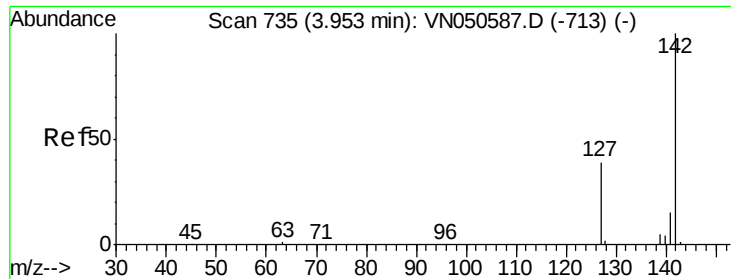
66 0.0 25.7 38.5#



Abundance Ion 63.90 (63.60 to 64.60): VN0

Ion 65.90 (65.60 to 66.60): VN0

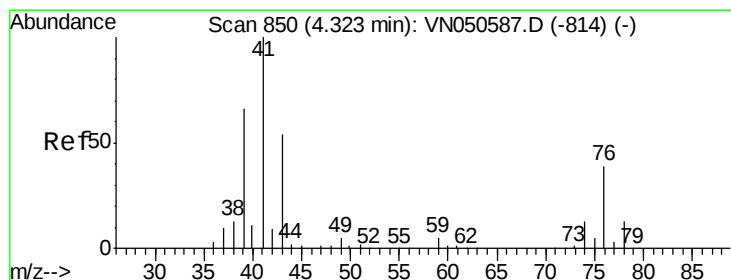
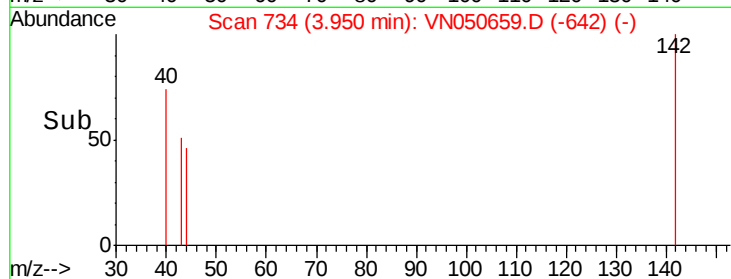
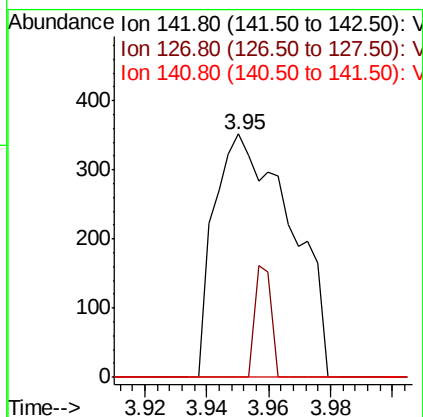
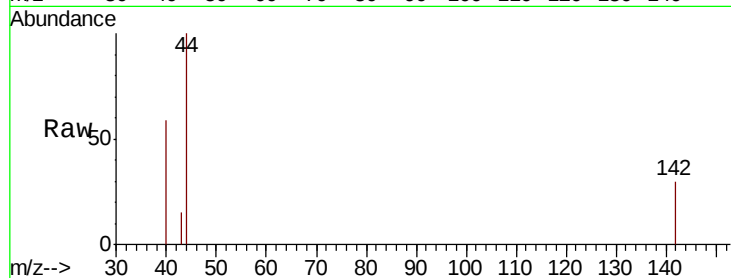




#10
Methvl Iodide
Concen: 7.04 ug/l
RT: 3.95 min Scan# 734
Delta R.T. -0.00 min
Lab File: VN050659.D
Acq: 15 Aug 2018 16:52

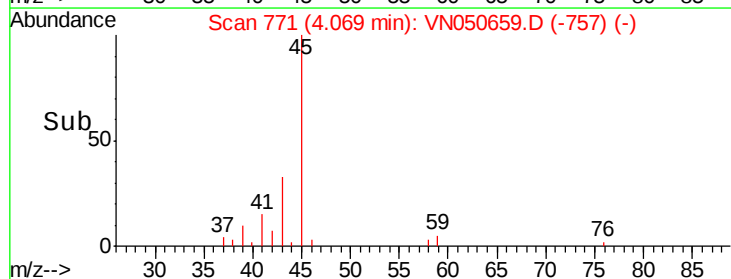
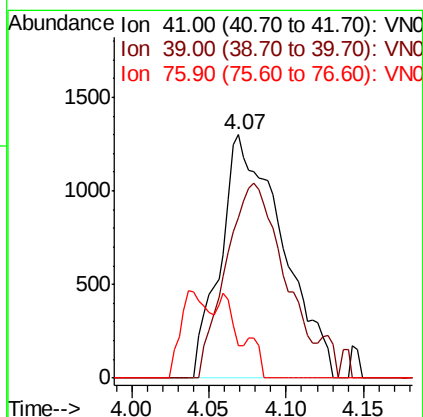
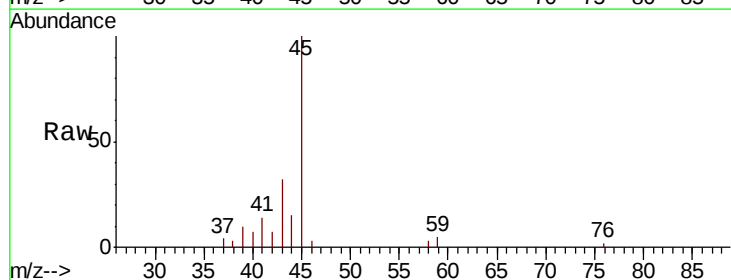
Instrument :
MSVOA_N
ClientSampleId :
953-MW-20(22)

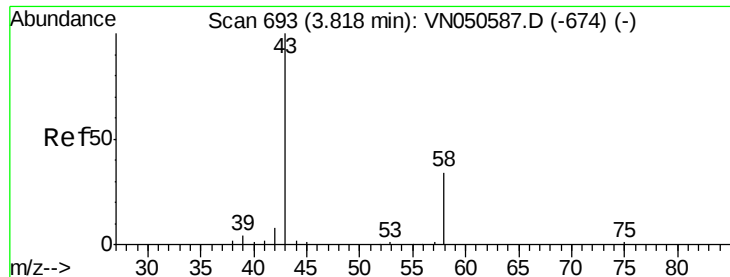
Tot Ion:142 Resp: 604
Ion Ratio Lower Upper
142 100
127 10.1 32.6 49.0#
141 0.0 11.5 17.3#



#14
Allyl chloride
Concen: 0.33 ug/l
RT: 4.07 min Scan# 771
Delta R.T. -0.25 min
Lab File: VN050659.D
Acq: 15 Aug 2018 16:52

Tgt Ion: 41 Resp: 3596
Ion Ratio Lower Upper
41 100
39 74.8 51.4 77.0
76 4.6 29.4 44.0#





#16

Acetone

Concen: 6.84 ug/l

RT: 3.82 min Scan# 695

Delta R.T. 0.01 min

Lab File: VN050659.D

Acq: 15 Aug 2018 16:52

Instrument :

MSVOA_N

ClientSampleId :

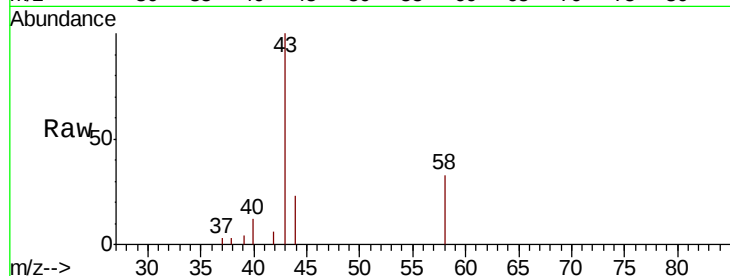
953-MW-20(22)

Tot Ion: 43 Resp: 16695

Ion Ratio Lower Upper

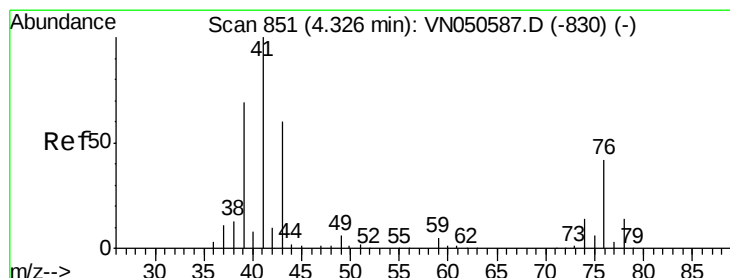
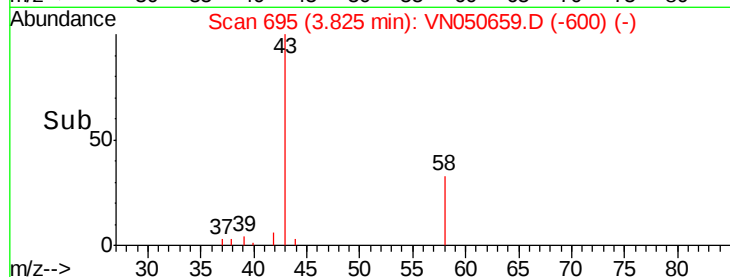
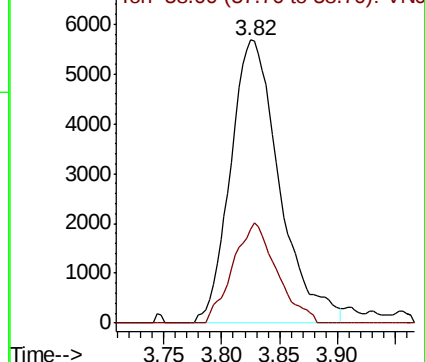
43 100

58 33.3 27.1 40.7



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#18

Methyl Acetate

Concen: Below Cal

RT: 4.34 min Scan# 855

Delta R.T. 0.01 min

Lab File: VN050659.D

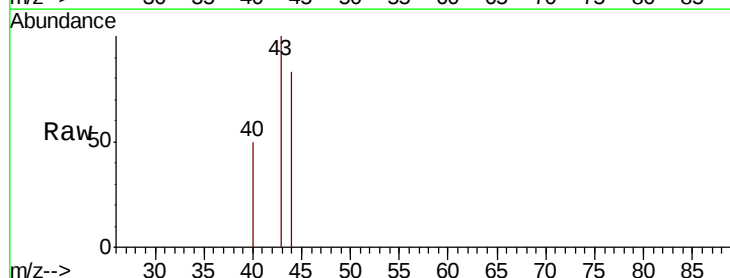
Acq: 15 Aug 2018 16:52

Tgt Ion: 43 Resp: 2767

Ion Ratio Lower Upper

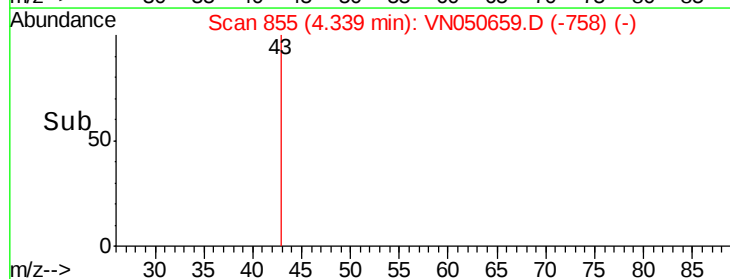
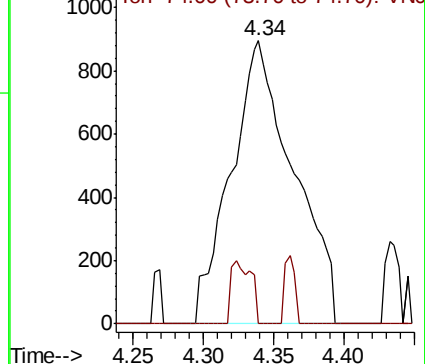
43 100

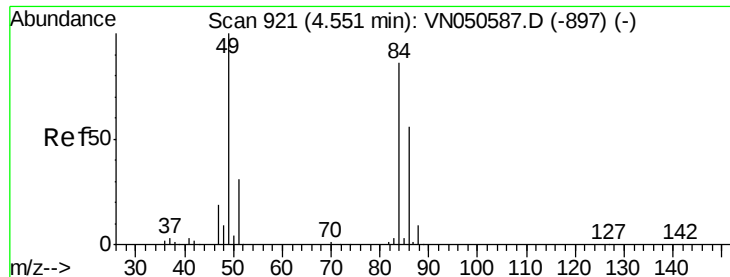
74 7.2 19.7 29.5#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 74.00 (73.70 to 74.70): VN0

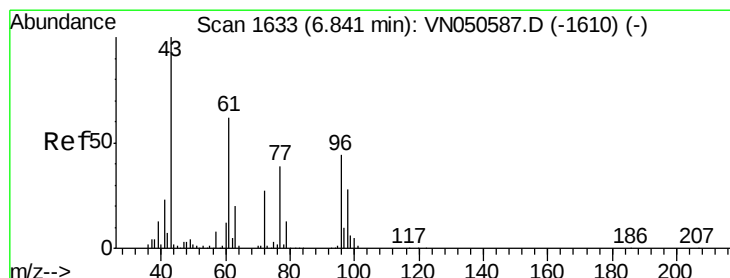
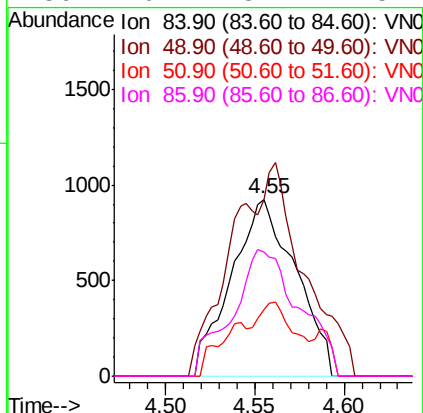
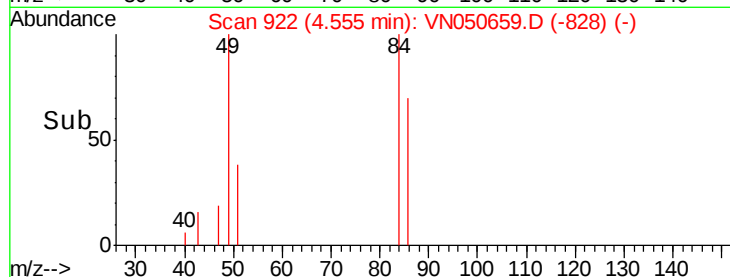
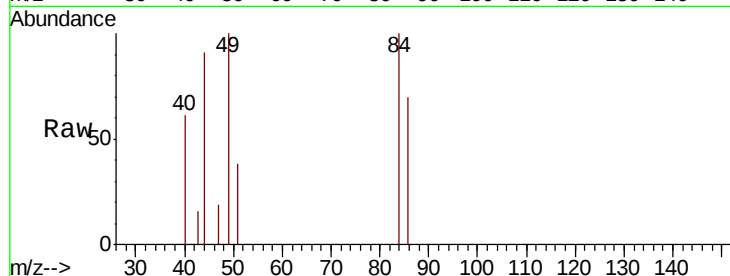




#20
Methvlene Chloride
Concen: Below Cal
RT: 4.55 min Scan# 922
Delta R.T. 0.00 min
Lab File: VN050659.D
Acq: 15 Aug 2018 16:52

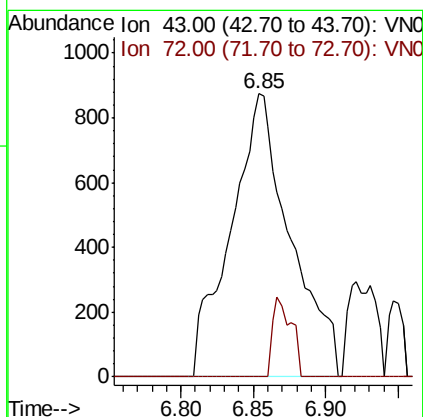
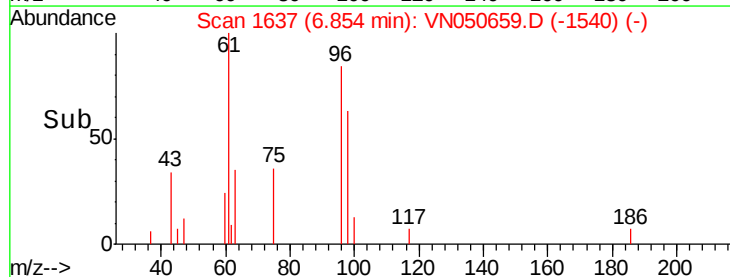
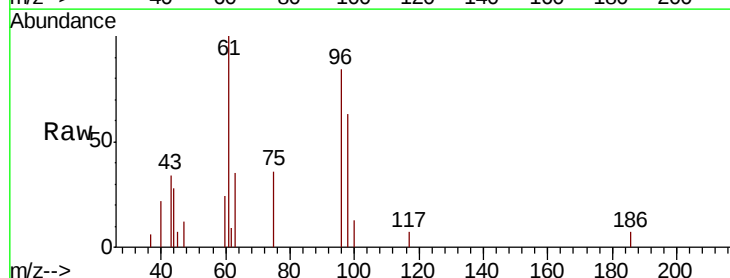
Instrument :
MSVOA_N
ClientSampleId :
953-MW-20(22)

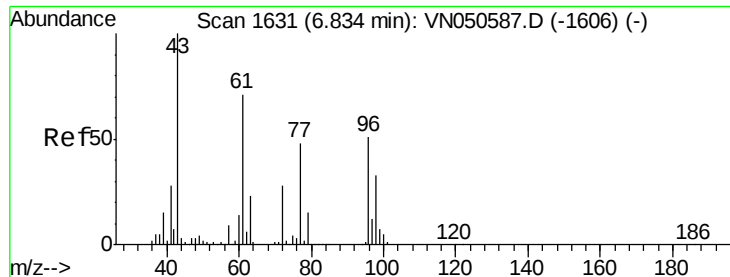
Tot Ion: 84 Resp: 2326
Ion Ratio Lower Upper
84 100
49 100.0 92.6 138.8
51 37.9 28.6 43.0
86 70.4 52.2 78.2



#25
2-Butanone
Concen: 0.75 ug/l
RT: 6.85 min Scan# 1637
Delta R.T. 0.01 min
Lab File: VN050659.D
Acq: 15 Aug 2018 16:52

Tgt Ion: 43 Resp: 2500
Ion Ratio Lower Upper
43 100
72 0.0 21.8 32.6#





#27

cis-1,2-Dichloroethene

Concen: 1.23 ug/l

RT: 6.83 min Scan# 1630

Delta R.T. -0.00 min

Lab File: VN050659.D

Acq: 15 Aug 2018 16:52

Instrument :

MSVOA_N

ClientSampleId :

953-MW-20(22)

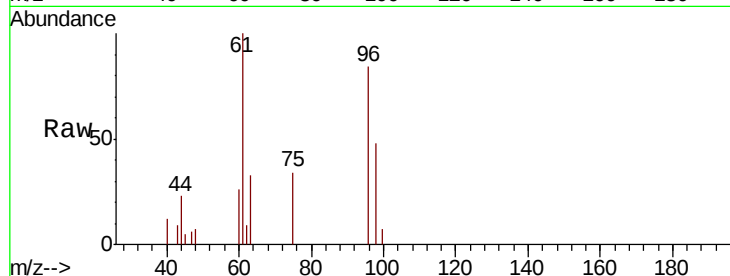
Tot Ion: 96 Resp: 10367

Ion Ratio Lower Upper

96 100

61 120.5 0.0 278.2

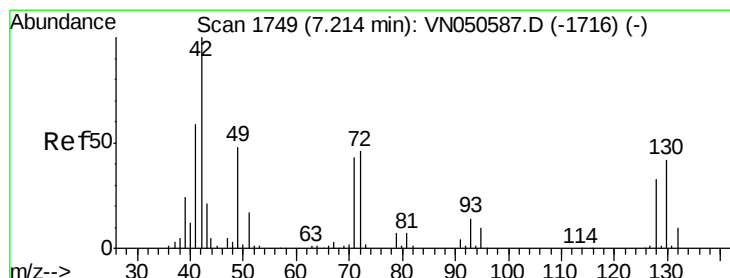
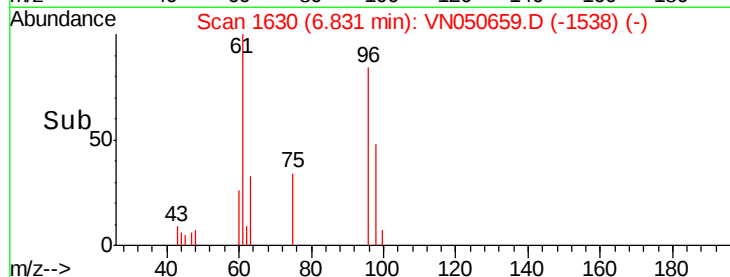
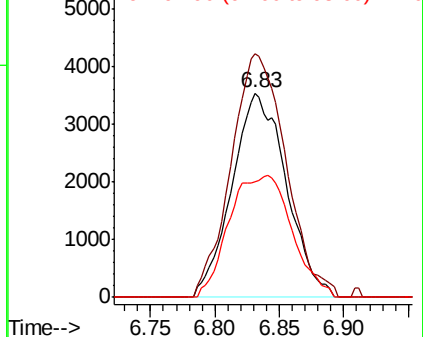
98 68.6 0.0 128.8



Abundance Ion 95.90 (95.60 to 96.60): VN0

Ion 60.90 (60.60 to 61.60): VN0

Ion 97.90 (97.60 to 98.60): VN0



#29

Tetrahydrofuran

Concen: 0.41 ug/l

RT: 7.23 min Scan# 1754

Delta R.T. 0.02 min

Lab File: VN050659.D

Acq: 15 Aug 2018 16:52

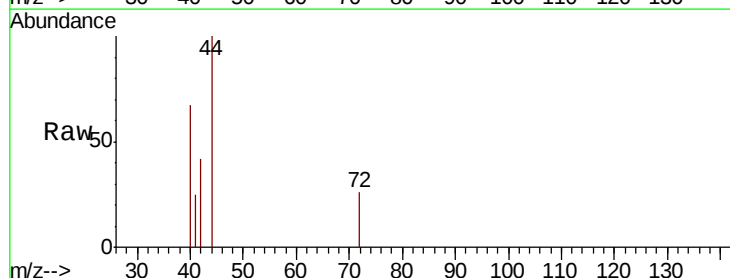
Tgt Ion: 42 Resp: 708

Ion Ratio Lower Upper

42 100

72 24.2 35.8 53.6#

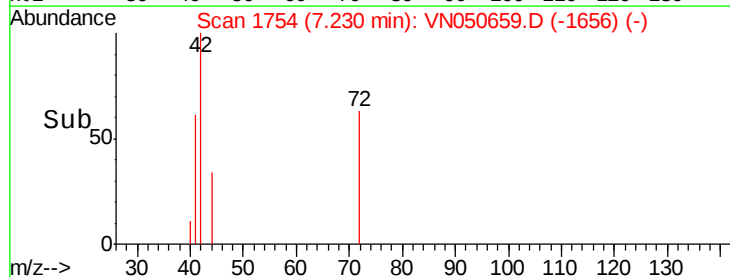
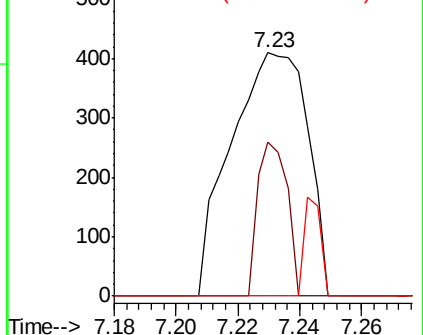
71 8.6 33.4 50.0#

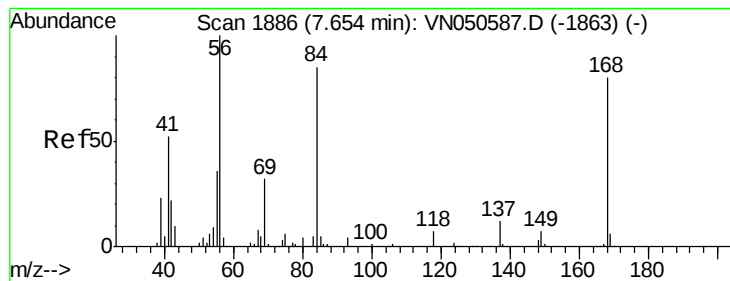


Abundance Ion 42.00 (41.70 to 42.70): VN0

Ion 72.00 (71.70 to 72.70): VN0

Ion 71.00 (70.70 to 71.70): VN0





#31

Cyclohexane

Concen: 0.60 ug/l

RT: 7.67 min Scan# 1890

Delta R.T. 0.01 min

Lab File: VN050659.D

Acq: 15 Aug 2018 16:52

Instrument :

MSVOA_N

ClientSampleId :

953-MW-20(22)

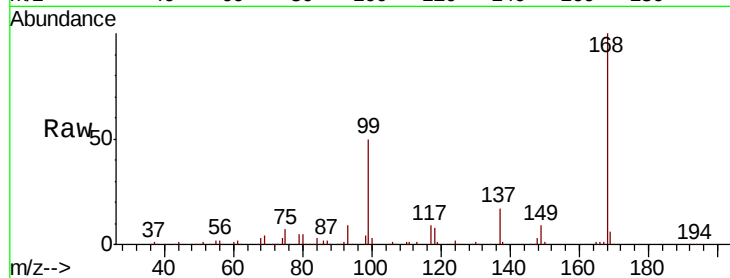
Tot Ion: 56 Resp: 11577

Ion Ratio Lower Upper

56 100

69 194.4 25.8 38.6#

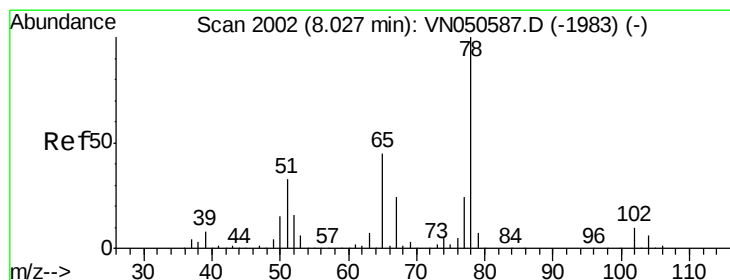
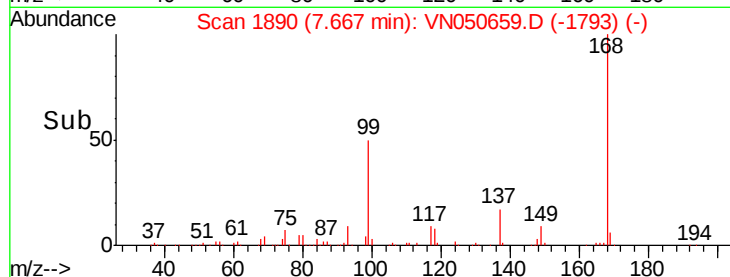
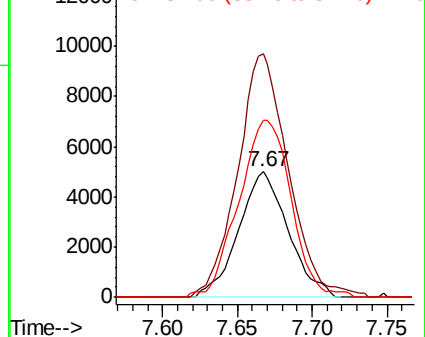
84 137.6 67.8 101.6#



Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 84.00 (83.70 to 84.70): VN0



#33

1,2-Dichloroethane-d4

Concen: 53.01 ug/l

RT: 8.03 min Scan# 2003

Delta R.T. 0.00 min

Lab File: VN050659.D

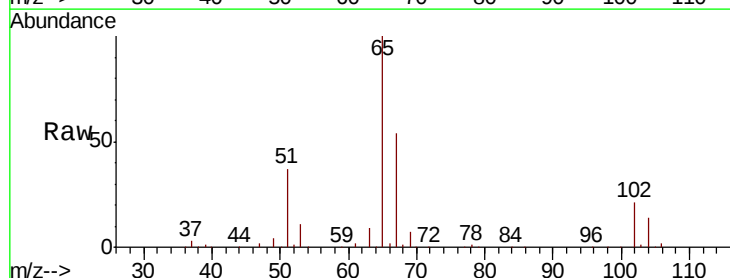
Acq: 15 Aug 2018 16:52

Tgt Ion: 65 Resp: 429727

Ion Ratio Lower Upper

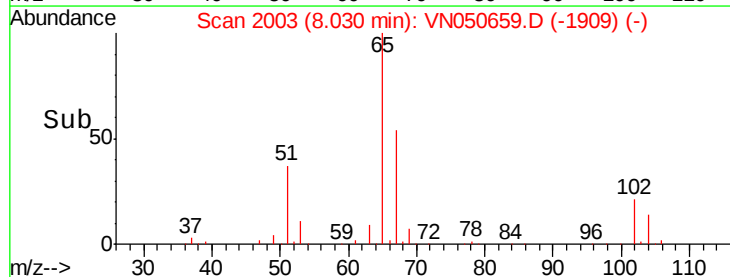
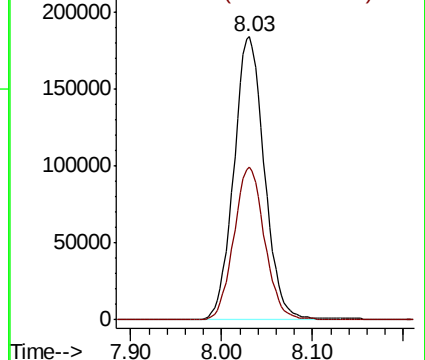
65 100

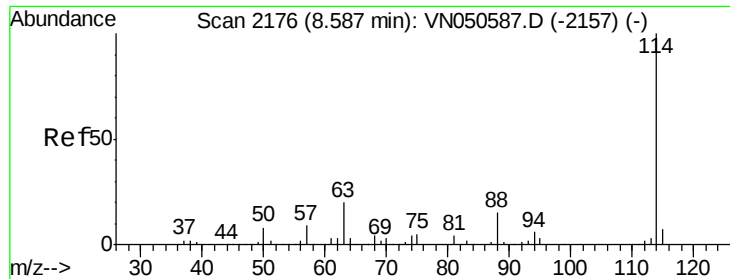
67 54.2 0.0 109.8



Abundance Ion 64.90 (64.60 to 65.60): VN0

Ion 66.90 (66.60 to 67.60): VN0

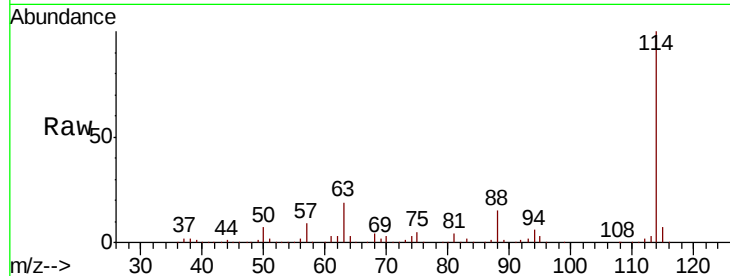




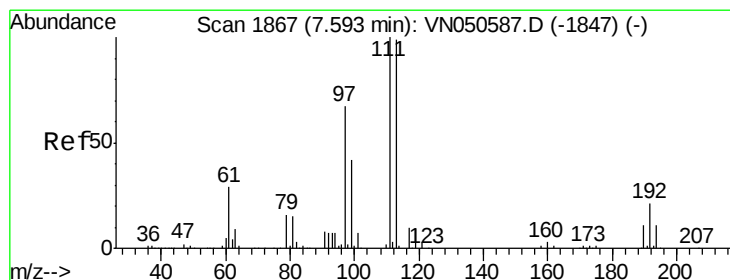
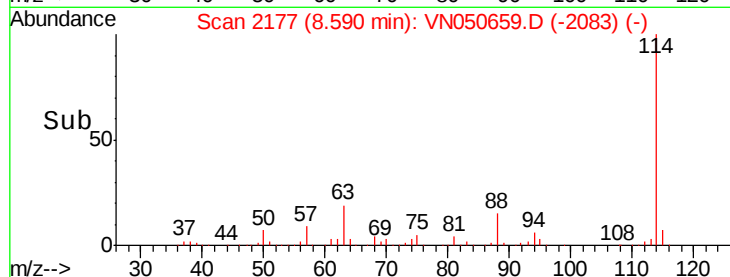
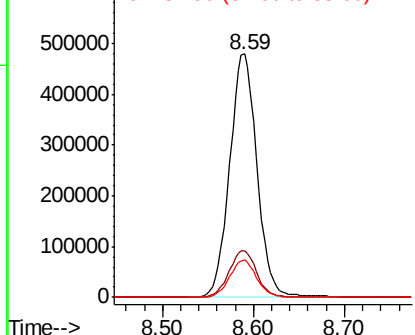
#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 8.59 min Scan# 2177
 Delta R.T. 0.00 min
 Lab File: VN050659.D
 Acq: 15 Aug 2018 16:52

Instrument :
 MSVOA_N
 ClientSampleId :
 953-MW-20(22)

Tot Ion:114 Resp: 1003397
 Ion Ratio Lower Upper
 114 100
 63 19.3 0.0 40.0
 88 15.2 0.0 30.8

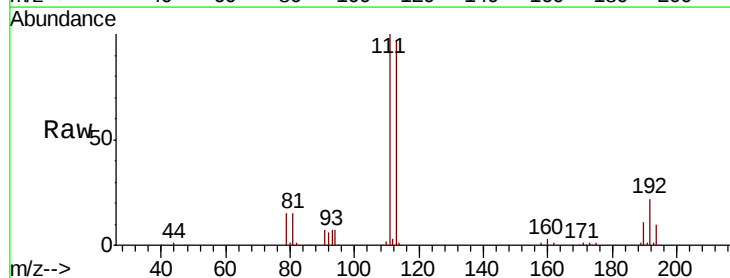


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VN
 Ion 87.90 (87.60 to 88.60): VN

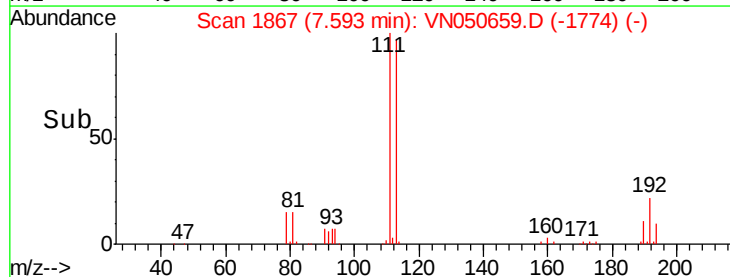
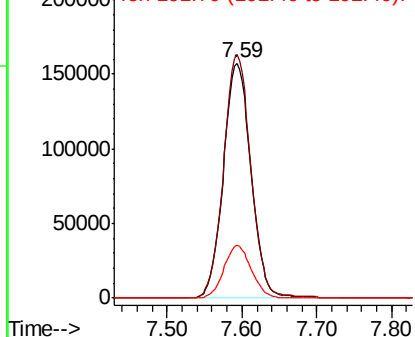


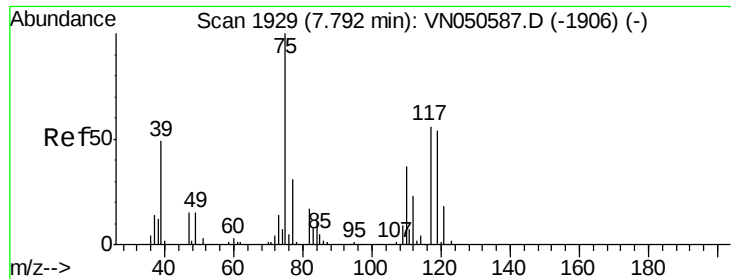
#35
 Dibromofluoromethane
 Concen: 50.38 ug/l
 RT: 7.59 min Scan# 1867
 Delta R.T. 0.00 min
 Lab File: VN050659.D
 Acq: 15 Aug 2018 16:52

Tgt Ion:113 Resp: 403612
 Ion Ratio Lower Upper
 113 100
 111 102.5 81.0 121.6
 192 22.2 17.6 26.4



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

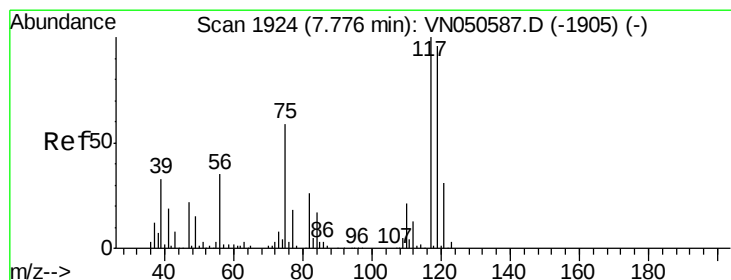
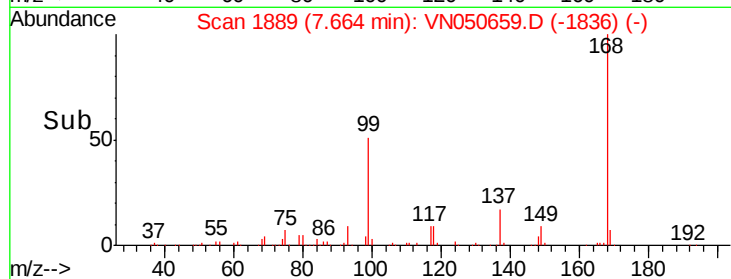
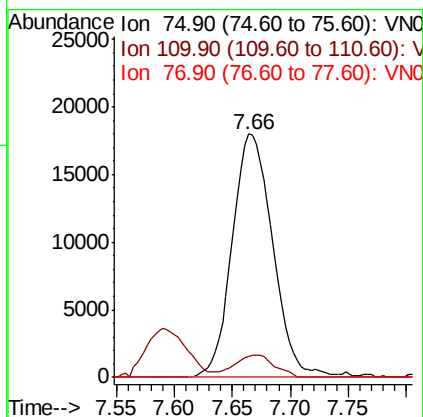
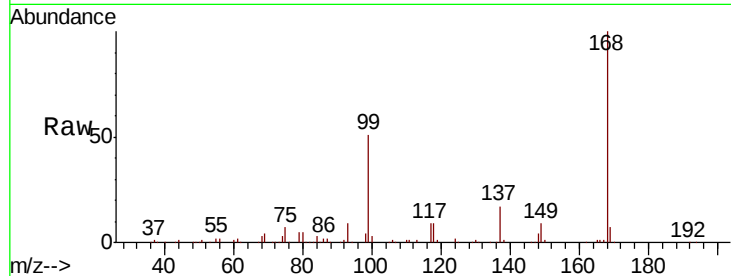




#36
 1,1-Dichloropropene
 Concen: 3.92 ug/l
 RT: 7.66 min Scan# 1889
 Delta R.T. -0.13 min
 Lab File: VN050659.D
 Acq: 15 Aug 2018 16:52

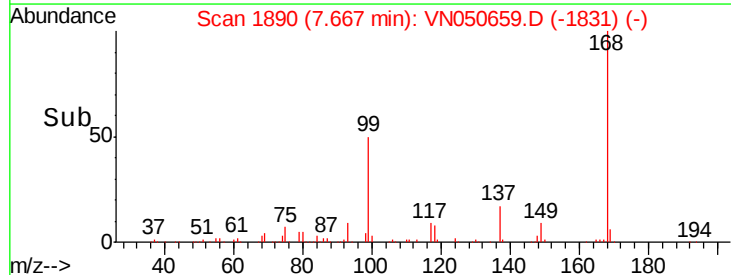
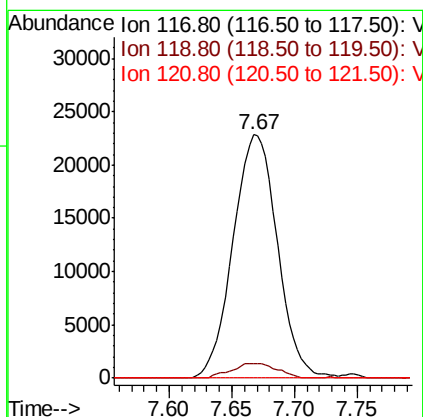
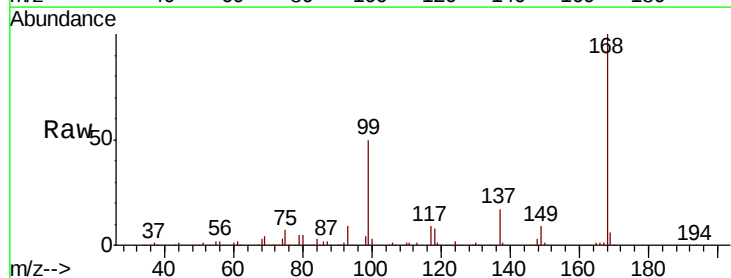
Instrument :
 MSVOA_N
 ClientSampleId :
 953-MW-20(22)

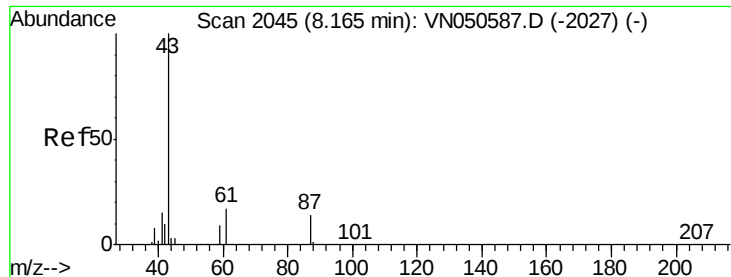
Tot Ion	75	Resp	43792
Ion Ratio	Lower	Upper	
75	100		
110	9.0	18.3	54.9#
77	0.0	25.0	37.4#



#38
 Carbon Tetrachloride
 Concen: 4.85 ug/l
 RT: 7.67 min Scan# 1890
 Delta R.T. -0.11 min
 Lab File: VN050659.D
 Acq: 15 Aug 2018 16:52

Tgt Ion	117	Resp	56193
Ion Ratio	Lower	Upper	
117	100		
119	6.1	76.6	115.0#
121	0.0	25.0	37.6#

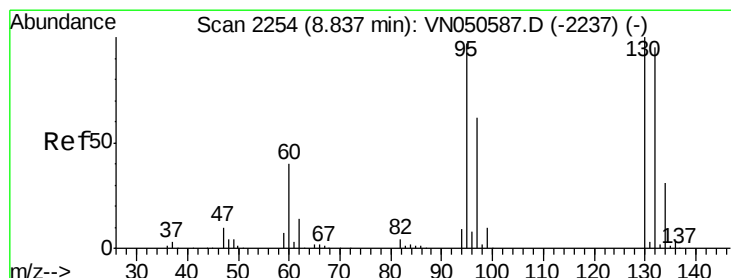
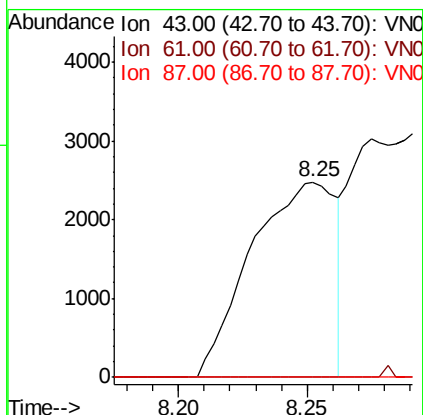
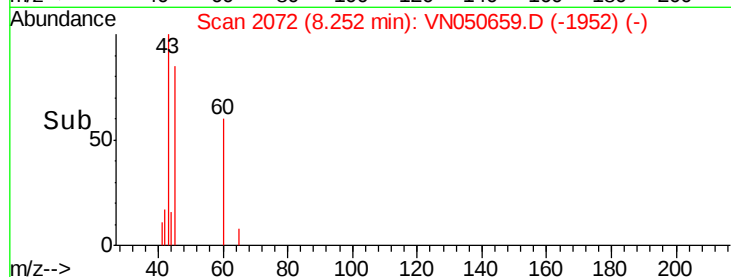
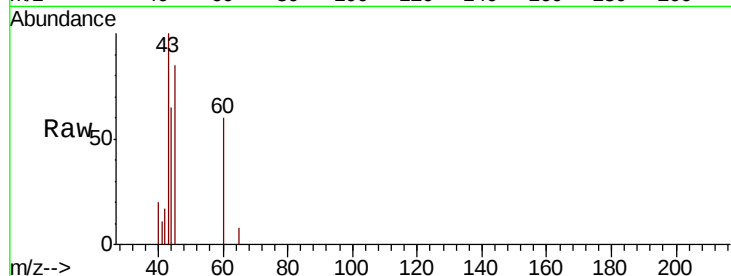




#43
Isopropyl Acetate
Concen: 0.49 ug/l
RT: 8.25 min Scan# 2072
Delta R.T. 0.09 min
Lab File: VN050659.D
Acq: 15 Aug 2018 16:52

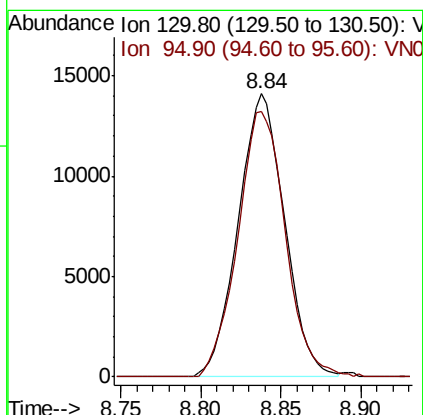
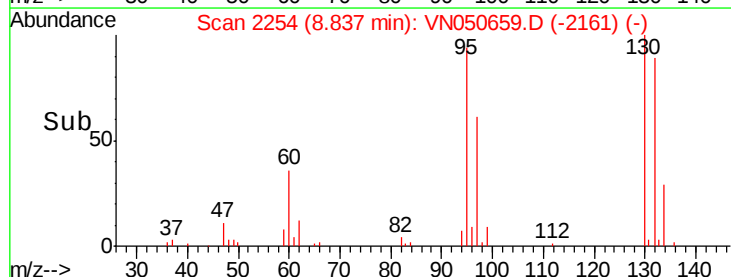
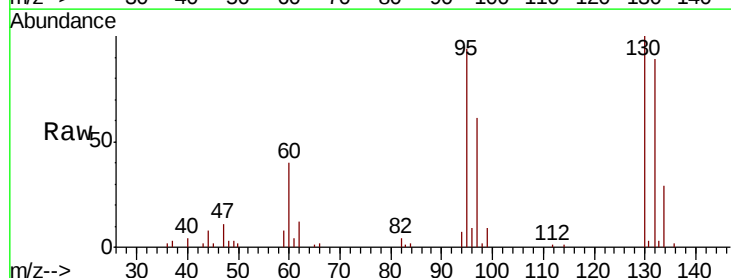
Instrument :
MSVOA_N
ClientSampleId :
953-MW-20(22)

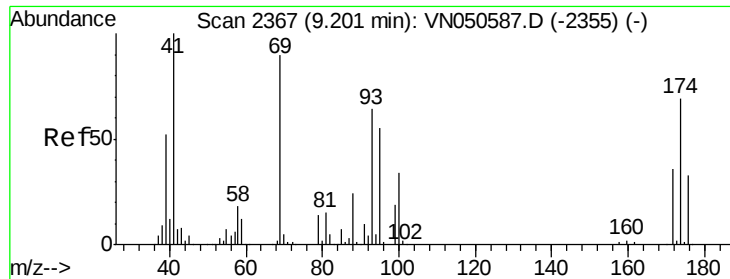
Tot Ion: 43 Resp: 5657
Ion Ratio Lower Upper
43 100
61 0.0 16.2 24.2#
87 0.0 10.9 16.3#



#44
Trichloroethene
Concen: 3.08 ug/l
RT: 8.84 min Scan# 2254
Delta R.T. 0.00 min
Lab File: VN050659.D
Acq: 15 Aug 2018 16:52

Tgt Ion: 130 Resp: 27991
Ion Ratio Lower Upper
130 100
95 94.0 0.0 193.8

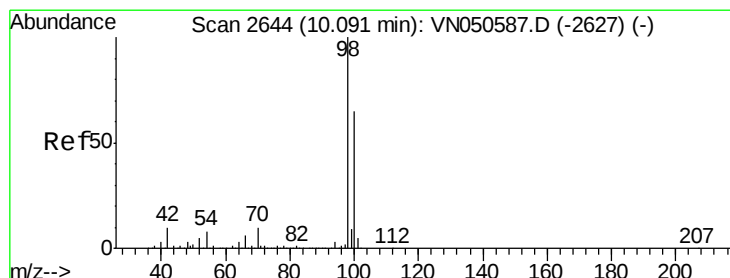
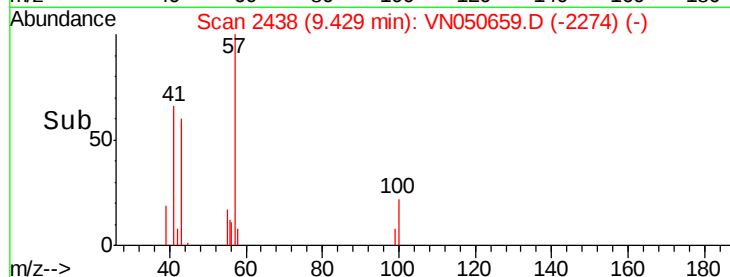
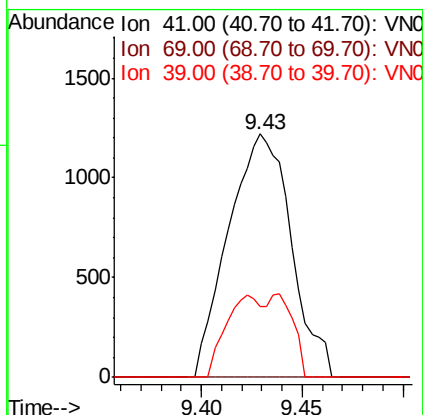
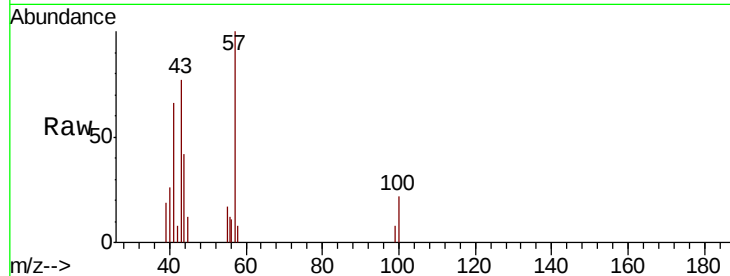




#48
Methvl methacrylate
Concen: 0.46 ug/l
RT: 9.43 min Scan# 2438
Delta R.T. 0.23 min
Lab File: VN050659.D
Acq: 15 Aug 2018 16:52

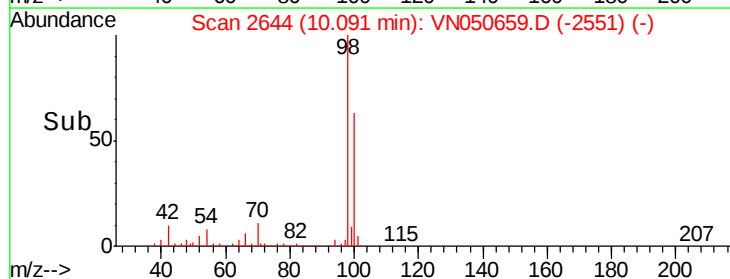
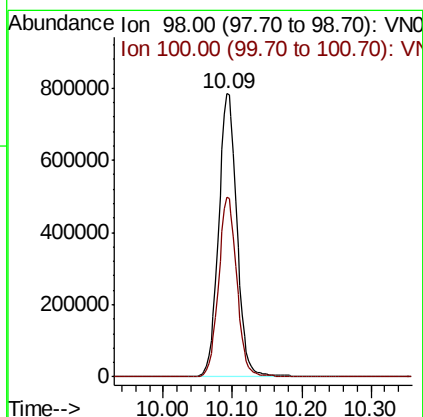
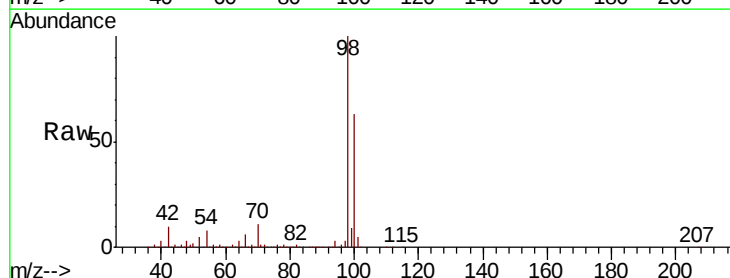
Instrument :
MSVOA_N
ClientSampleId :
953-MW-20(22)

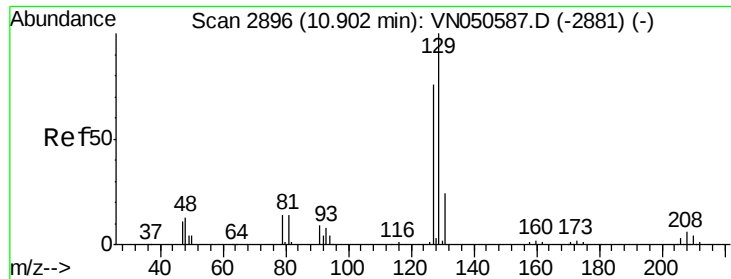
Tot Ion: 41 Resp: 2647
Ion Ratio Lower Upper
41 100
69 0.0 73.4 110.0#
39 18.5 43.0 64.6#



#50
Toluene-d8
Concen: 47.74 ug/l
RT: 10.09 min Scan# 2644
Delta R.T. 0.00 min
Lab File: VN050659.D
Acq: 15 Aug 2018 16:52

Tgt Ion: 98 Resp: 1439407
Ion Ratio Lower Upper
98 100
100 63.3 51.8 77.8

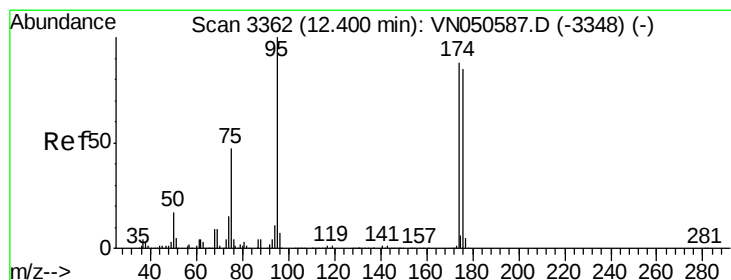
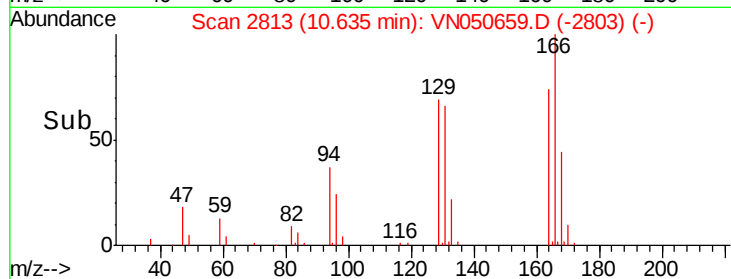
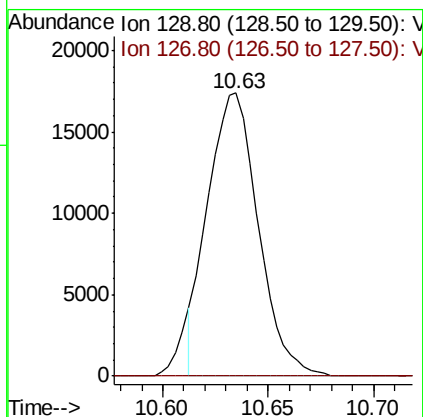
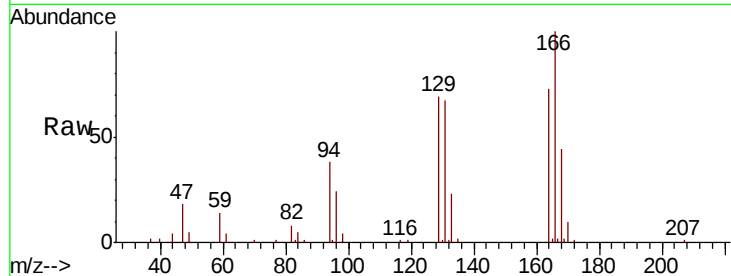




#60
 Dibromochloromethane
 Concen: 3.45 ug/l
 RT: 10.63 min Scan# 2813
 Delta R.T. -0.27 min
 Lab File: VN050659.D
 Acq: 15 Aug 2018 16:52

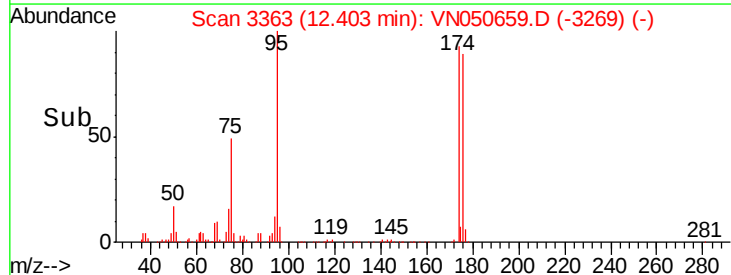
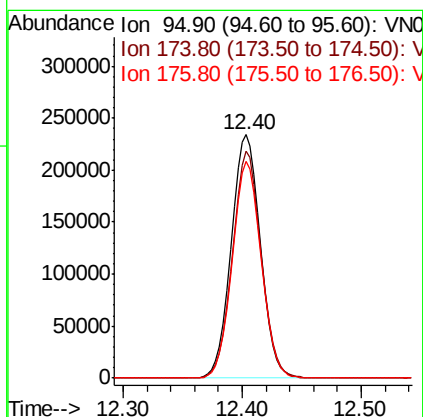
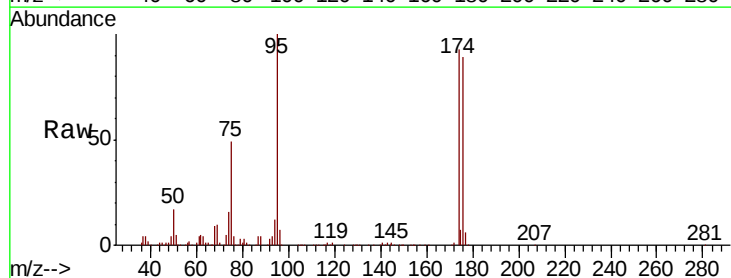
Instrument :
 MSVOA_N
 ClientSampleId :
 953-MW-20(22)

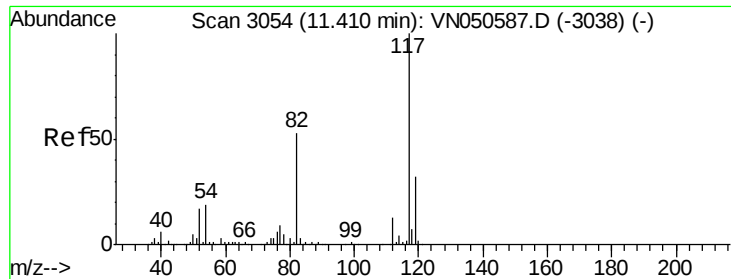
Tot Ion:129 Resp: 28882
 Ion Ratio Lower Upper
 129 100
 127 0.0 38.9 116.7#



#62
 4-Bromofluorobenzene
 Concen: 39.83 ug/l
 RT: 12.40 min Scan# 3363
 Delta R.T. 0.00 min
 Lab File: VN050659.D
 Acq: 15 Aug 2018 16:52

Tgt Ion: 95 Resp: 396703
 Ion Ratio Lower Upper
 95 100
 174 91.7 0.0 177.8
 176 88.2 0.0 175.0

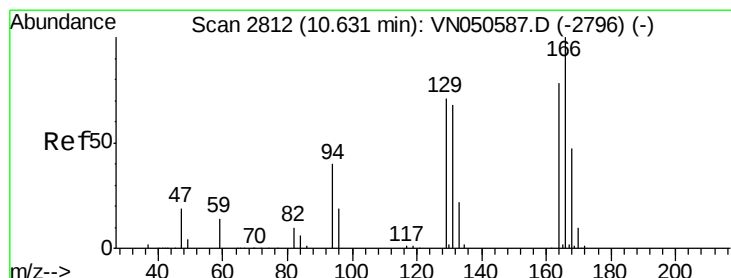
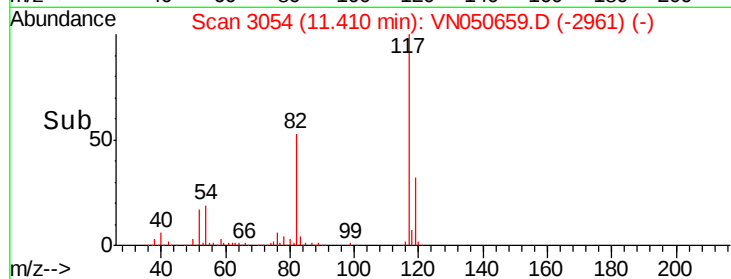
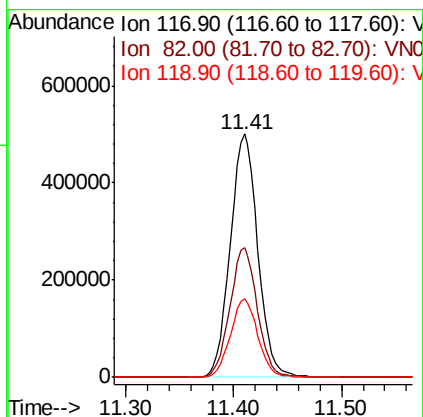
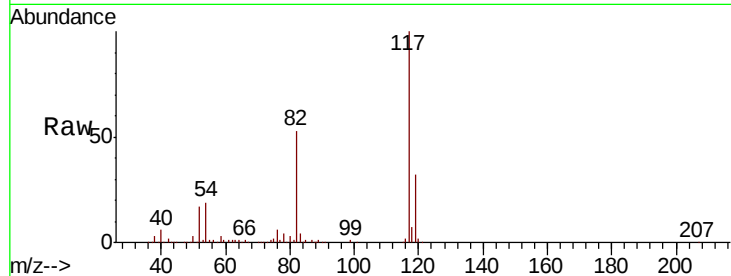




#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 11.41 min Scan# 3054
Delta R.T. 0.00 min
Lab File: VN050659.D
Acq: 15 Aug 2018 16:52

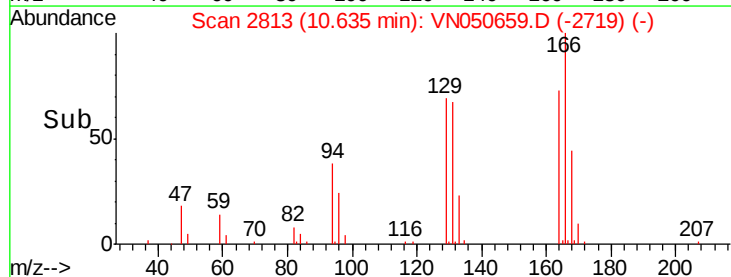
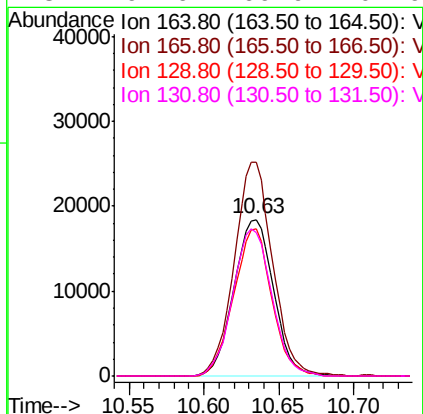
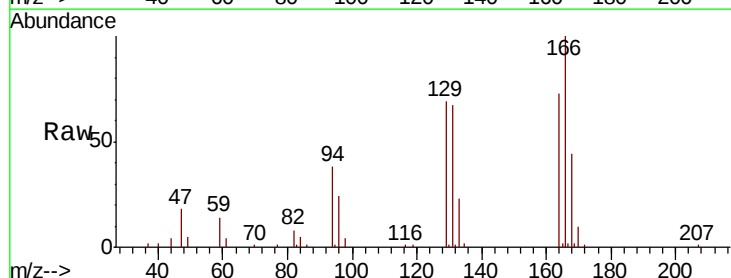
Instrument :
MSVOA_N
ClientSampleId :
953-MW-20(22)

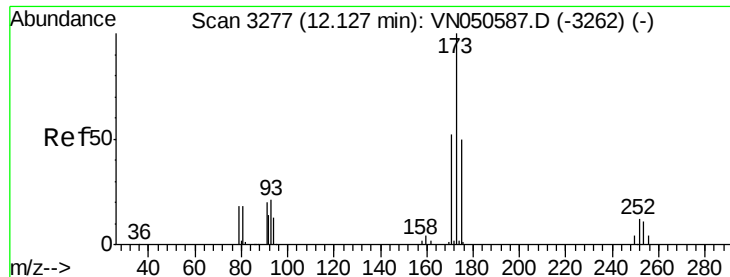
Tot Ion:117 Resp: 891849
Ion Ratio Lower Upper
117 100
82 53.3 42.4 63.6
119 32.0 25.8 38.8



#64
Tetrachloroethene
Concen: 4.10 ug/l
RT: 10.63 min Scan# 2813
Delta R.T. 0.00 min
Lab File: VN050659.D
Acq: 15 Aug 2018 16:52

Tgt Ion:164 Resp: 33996
Ion Ratio Lower Upper
164 100
166 136.3 102.1 153.1
129 94.2 72.7 109.1
131 91.6 69.9 104.9





#71

Bromoform

Concen: 0.40 ug/l

RT: 12.40 min Scan# 3362

Delta R.T. 0.27 min

Lab File: VN050659.D

Acq: 15 Aug 2018 16:52

Instrument :

MSVOA_N

ClientSampleId :

953-MW-20(22)

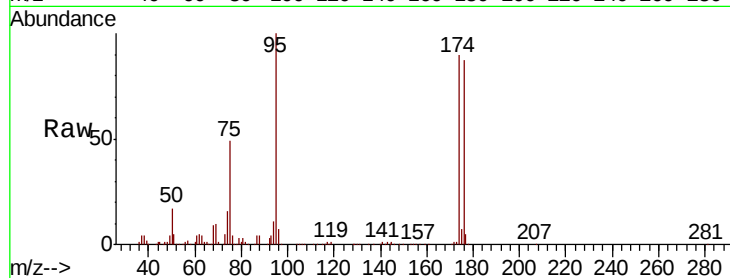
Tot Ion:173 Resp: 2187

Ion Ratio Lower Upper

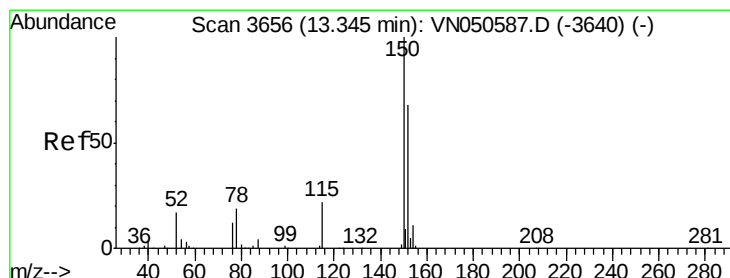
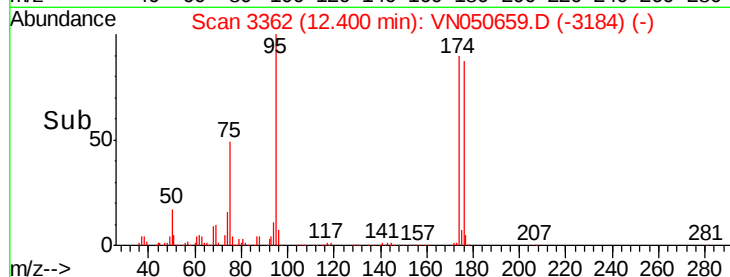
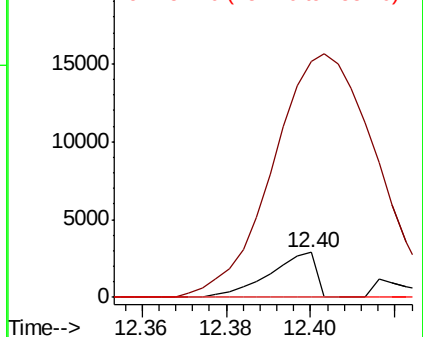
173 100

175 1015.1 24.4 73.2#

254 0.0 0.0 0.0



Abundance Ion 172.70 (172.40 to 173.40): V
Ion 174.70 (174.40 to 175.40): V
Ion 254.40 (254.10 to 255.10): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 13.35 min Scan# 3656

Delta R.T. 0.00 min

Lab File: VN050659.D

Acq: 15 Aug 2018 16:52

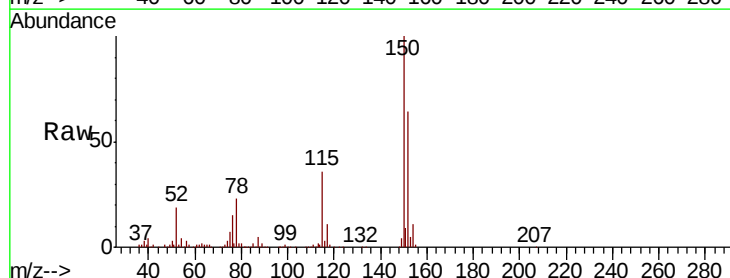
Tgt Ion:152 Resp: 321995

Ion Ratio Lower Upper

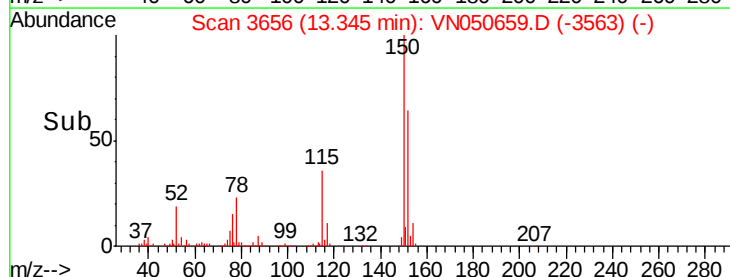
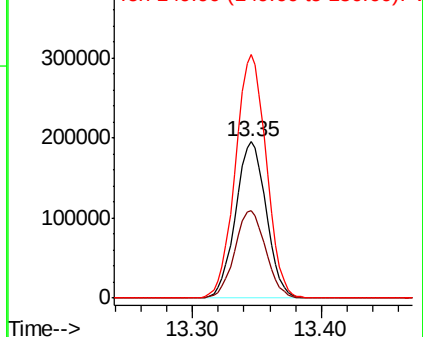
152 100

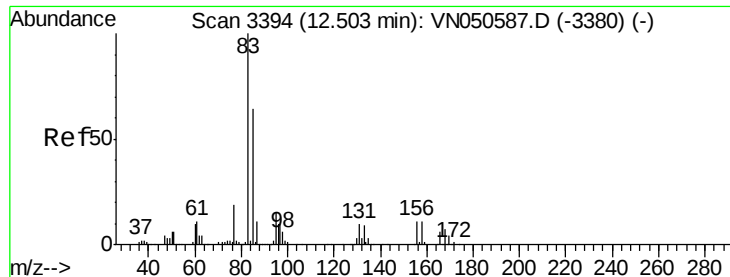
115 56.6 28.1 84.2

150 157.6 0.0 347.8



Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V





#75

1,1,2,2-Tetrachloroethane

Concen: Below Cal

RT: 12.40 min Scan# 3363

Delta R.T. -0.10 min

Lab File: VN050659.D

Acq: 15 Aug 2018 16:52

Instrument :

MSVOA_N

ClientSampleId :

953-MW-20(22)

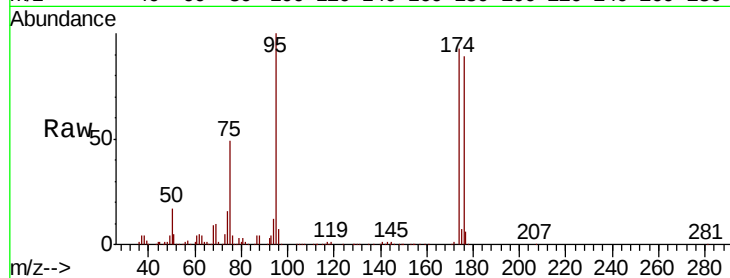
Tot Ion: 83 Resp: 159

Ion Ratio Lower Upper

83 100

131 292.5 5.3 15.9#

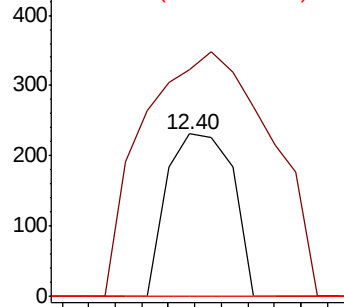
85 0.0 32.1 96.5#



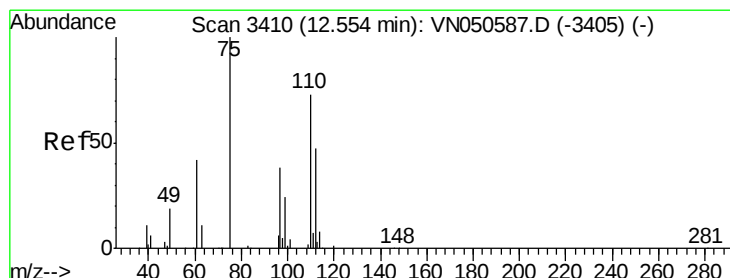
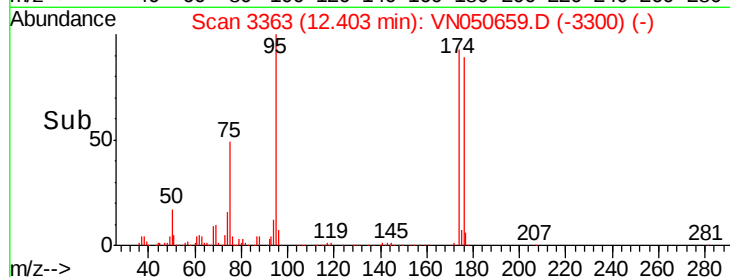
Abundance Ion 82.90 (82.60 to 83.60): VNO

Ion 130.80 (130.50 to 131.50): VNO

Ion 84.90 (84.60 to 85.60): VNO



Time-->



#76

1,2,3-Trichloropropane

Concen: 36.37 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. -0.15 min

Lab File: VN050659.D

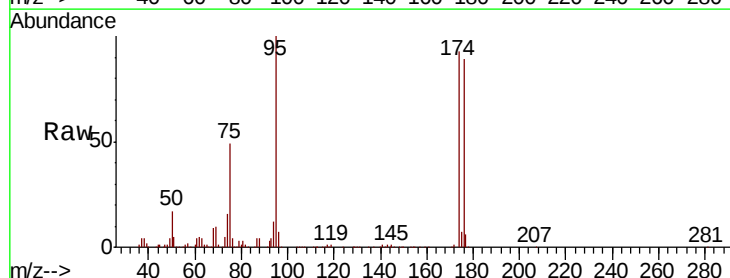
Acq: 15 Aug 2018 16:52

Tgt Ion: 75 Resp: 190671

Ion Ratio Lower Upper

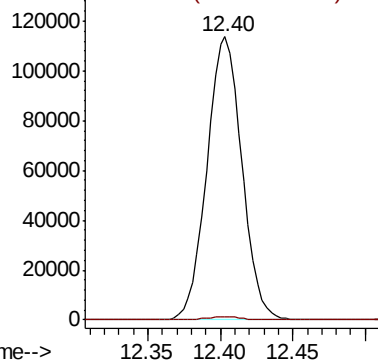
75 100

77 1.1 0.0 0.0#

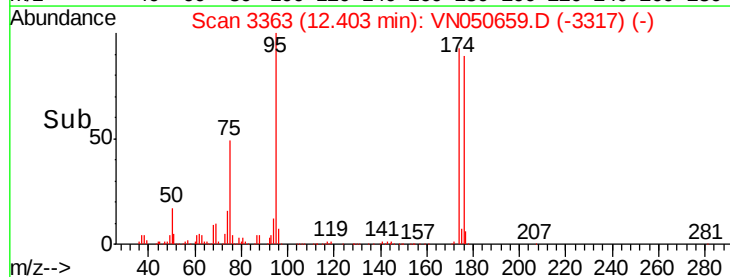


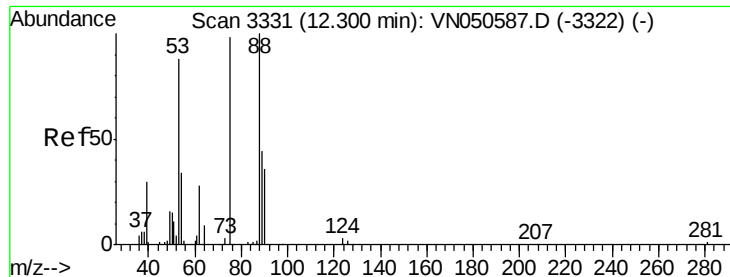
Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 77.00 (76.70 to 77.70): VNO



Time-->





#81

trans-1,4-Dichloro-2-butene

Concen: 131.65 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. 0.10 min

Lab File: VN050659.D

Acq: 15 Aug 2018 16:52

Instrument :

MSVOA_N

ClientSampleId :

953-MW-20(22)

Tot Ion: 75 Resp: 190671

Ion Ratio Lower Upper

75 100

53 0.2 72.2 108.2#

89 0.0 36.3 54.5#

