

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN081518\
 Data File : VN050656.D
 Acq On : 15 Aug 2018 15:38
 Operator : MD\SY
 Sample : J4465-11
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 948-MW-15(17)

Quant Time: Aug 16 01:29:54 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	616259	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	955679	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	823004	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	278997	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	411861	53.02	ug/l	0.00
Spiked Amount			Recovery	=	106.04%	
35) Dibromofluoromethane	7.59	113	387627	50.80	ug/l	0.00
Spiked Amount			Recovery	=	101.60%	
50) Toluene-d8	10.09	98	1361030	47.40	ug/l	0.00
Spiked Amount			Recovery	=	94.80%	
62) 4-Bromofluorobenzene	12.40	95	357276	37.66	ug/l	0.00
Spiked Amount			Recovery	=	75.32%	

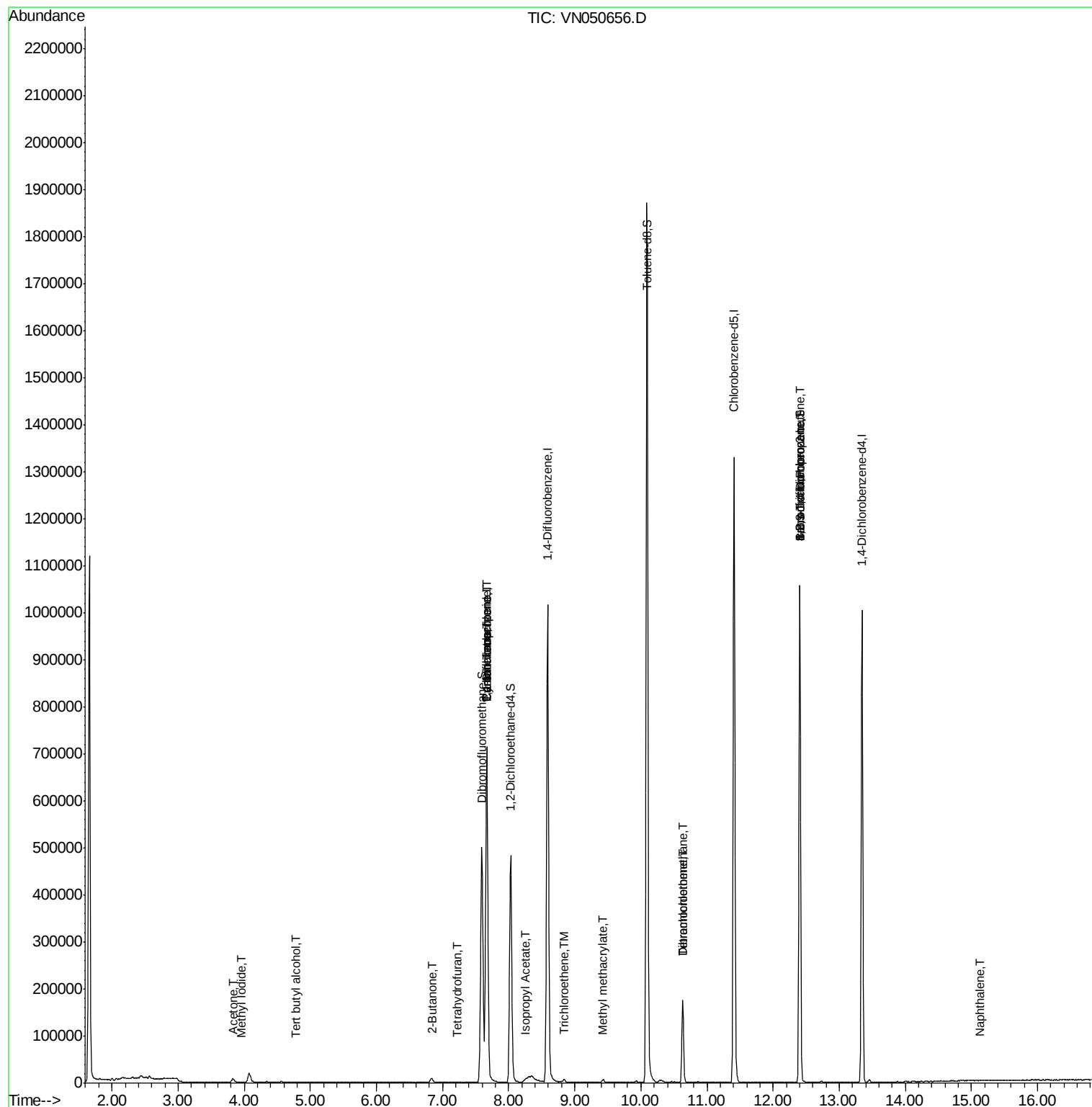
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.06	50	2622	Below Cal		98
5) Bromomethane	2.56	94	2800	Below Cal		85
6) Chloroethane	2.71	64	29	Below Cal	#	43
10) Methyl Iodide	3.95	142	573	7.04	ug/l #	55
11) Tert butyl alcohol	4.77	59	171	0.40	ug/l #	72
16) Acetone	3.83	43	13831	5.71	ug/l	98
18) Methyl Acetate	4.34	43	2817	Below Cal	#	64
20) Methylene Chloride	4.56	84	1600	Below Cal		93
25) 2-Butanone	6.85	43	3304	1.04	ug/l #	79
29) Tetrahydrofuran	7.23	42	974	0.59	ug/l #	50
31) Cyclohexane	7.67	56	10840	0.58	ug/l #	1
36) 1,1-Dichloropropene	7.67	75	43800	4.12	ug/l #	48
38) Carbon Tetrachloride	7.67	117	55927	5.07	ug/l #	16
43) Isopropyl Acetate	8.24	43	3629	0.33	ug/l #	60
44) Trichloroethene	8.84	130	2516	0.29	ug/l	97
48) Methyl methacrylate	9.43	41	2288	0.41	ug/l #	31
60) Dibromochloromethane	10.63	129	37602	4.72	ug/l #	10
64) Tetrachloroethene	10.63	164	42991	5.62	ug/l	93
71) Bromoform	12.40	173	3575	0.70	ug/l #	1
75) 1,1,2,2-Tetrachloroethane	12.41	83	112	Below Cal	#	1
76) 1,2,3-Trichloropropane	12.40	75	169435	37.33	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	169435	135.02	ug/l #	13
95) Naphthalene	15.13	128	221	3.88	ug/l #	69

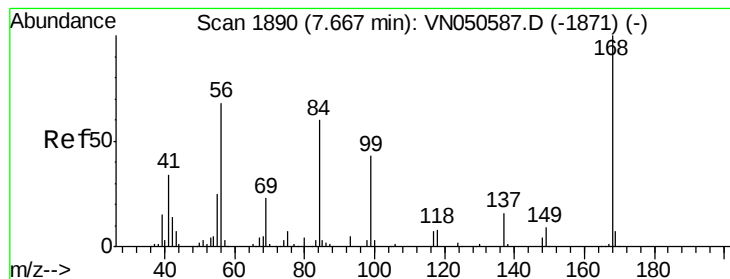
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 7.67 min Scan# 1891

Delta R.T. 0.00 min

Lab File: VN050656.D

Acq: 15 Aug 2018 15:38

Instrument :

MSVOA_N

ClientSampleId :

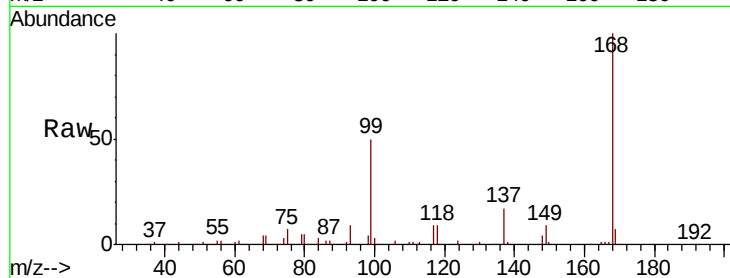
948-MW-15(17)

Tot Ion:168 Resp: 616259

Ion Ratio Lower Upper

168 100

99 50.4 40.8 61.2



Abundance Ion 167.90 (167.60 to 168.60): VN050587.D (-1871) (-)

Ion 98.90 (98.60 to 99.60): VN050587.D (-1871) (-)

7.67

250000

200000

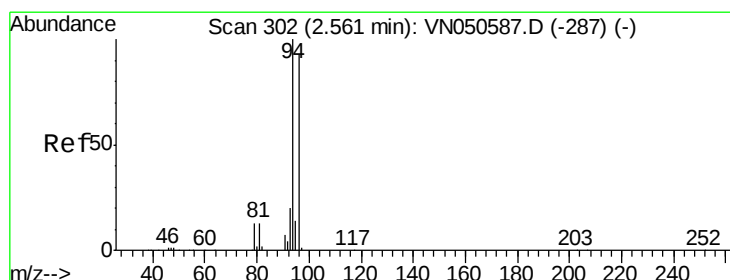
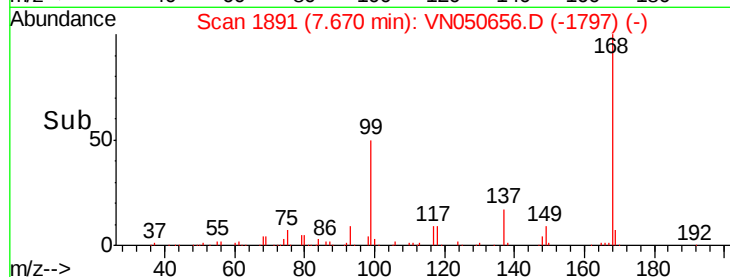
150000

100000

50000

0

Time-->



#5

Bromomethane

Concen: Below Cal

RT: 2.56 min Scan# 303

Delta R.T. 0.00 min

Lab File: VN050656.D

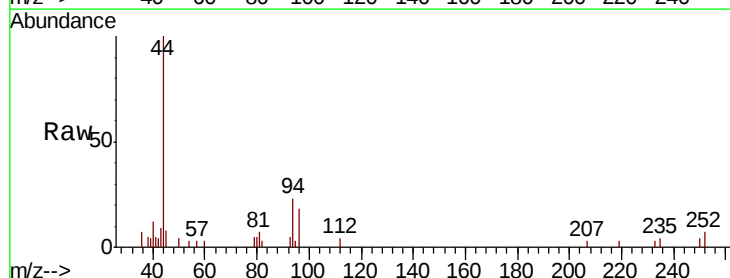
Acq: 15 Aug 2018 15:38

Tgt Ion: 94 Resp: 2800

Ion Ratio Lower Upper

94 100

96 78.2 74.0 111.0



Abundance Ion 93.90 (93.60 to 94.60): VN050587.D (-287) (-)

Ion 95.90 (95.60 to 96.60): VN050587.D (-287) (-)

2.56

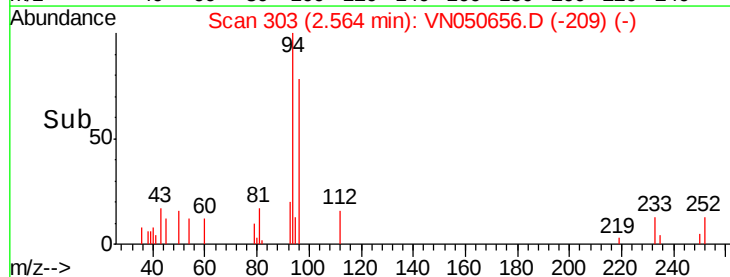
1500

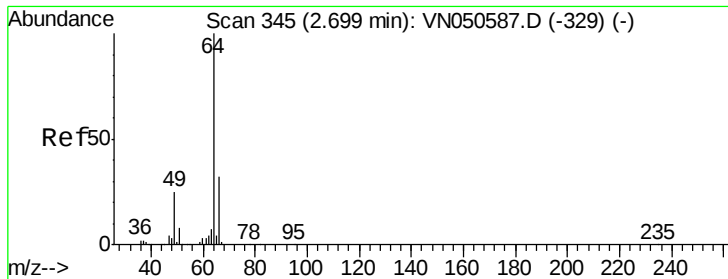
1000

500

0

Time-->





#6

Chloroethane

Concen: Below Cal

RT: 2.71 min Scan# 349

Delta R.T. 0.01 min

Lab File: VN050656.D

Acq: 15 Aug 2018 15:38

Instrument :

MSVOA_N

ClientSampleId :

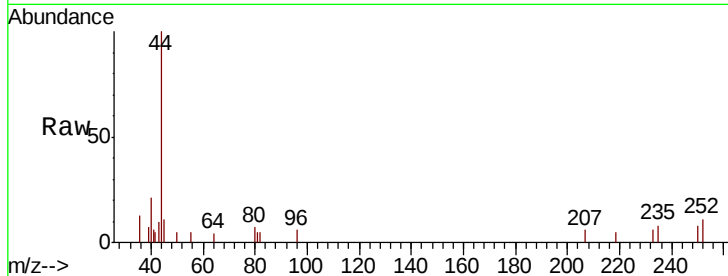
948-MW-15(17)

Tot Ion: 64 Resp: 29

Ion Ratio Lower Upper

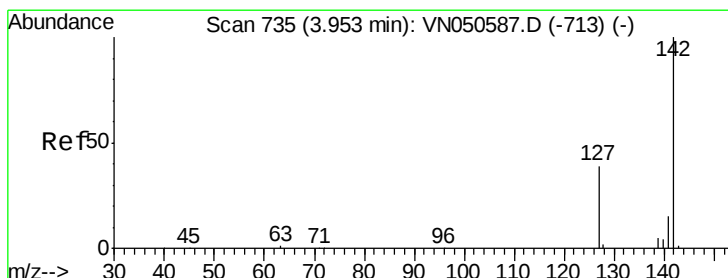
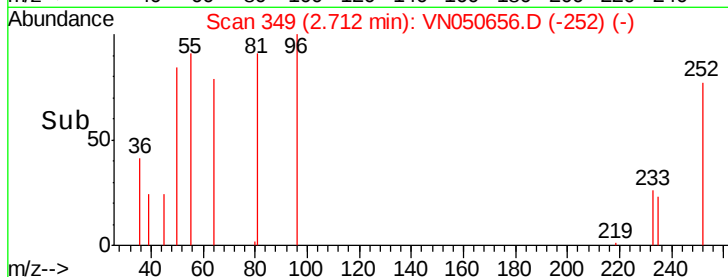
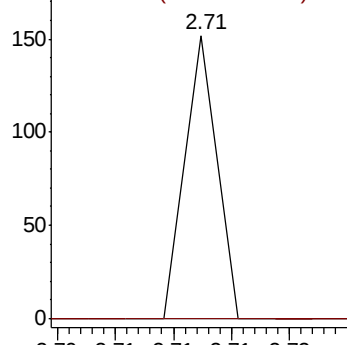
64 100

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

Methyl Iodide

Concen: 7.04 ug/l

RT: 3.95 min Scan# 735

Delta R.T. 0.00 min

Lab File: VN050656.D

Acq: 15 Aug 2018 15:38

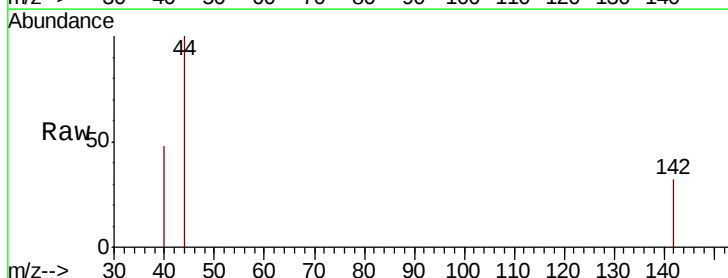
Tgt Ion: 142 Resp: 573

Ion Ratio Lower Upper

142 100

127 10.8 32.6 49.0#

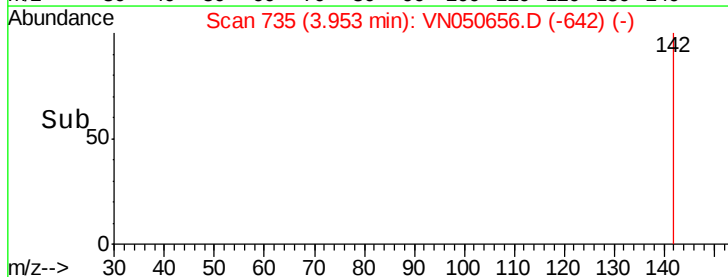
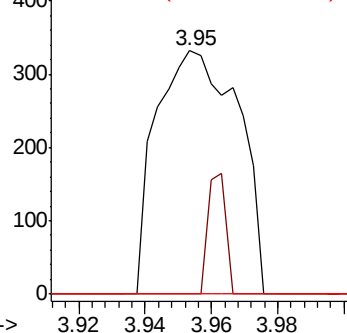
141 0.0 11.5 17.3#

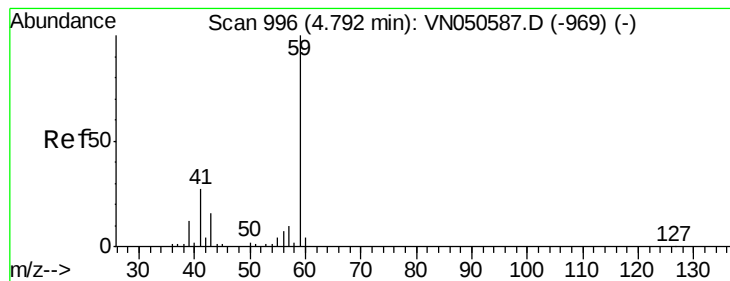


Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V





#11

Tert butyl alcohol

Concen: 0.40 ug/l

RT: 4.77 min Scan# 990

Delta R.T. -0.02 min

Lab File: VN050656.D

Acq: 15 Aug 2018 15:38

Instrument :

MSVOA_N

ClientSampleId :

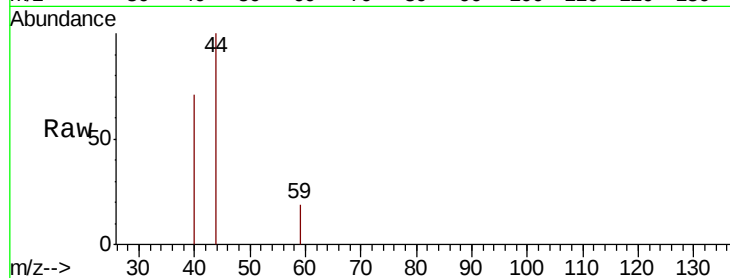
948-MW-15(17)

Tot Ion: 59 Resp: 171

Ion Ratio Lower Upper

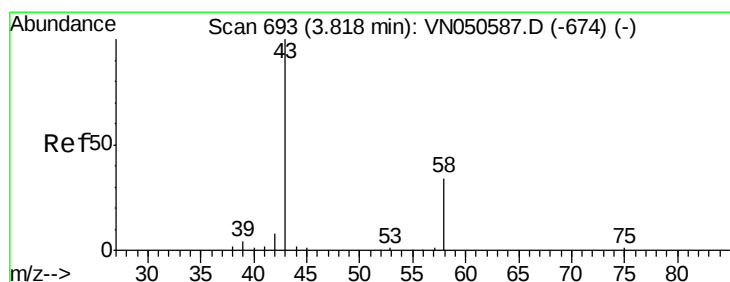
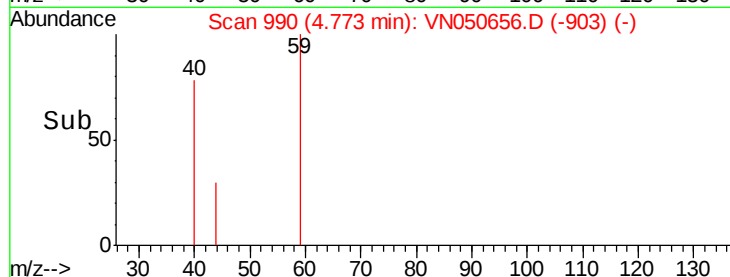
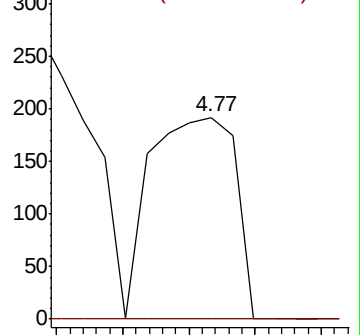
59 100

57 0.0 8.4 12.6#



Abundance Ion 59.00 (58.70 to 59.70): VN0

Ion 57.00 (56.70 to 57.70): VN0



#16

Acetone

Concen: 5.71 ug/l

RT: 3.83 min Scan# 696

Delta R.T. 0.01 min

Lab File: VN050656.D

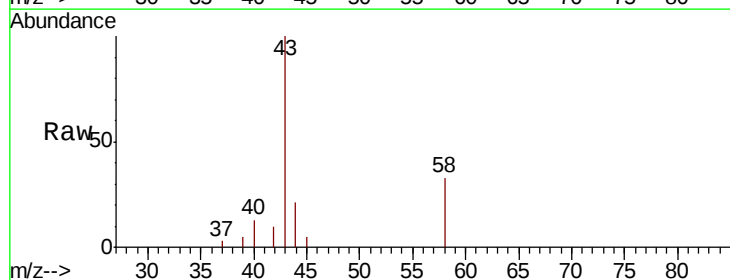
Acq: 15 Aug 2018 15:38

Tgt Ion: 43 Resp: 13831

Ion Ratio Lower Upper

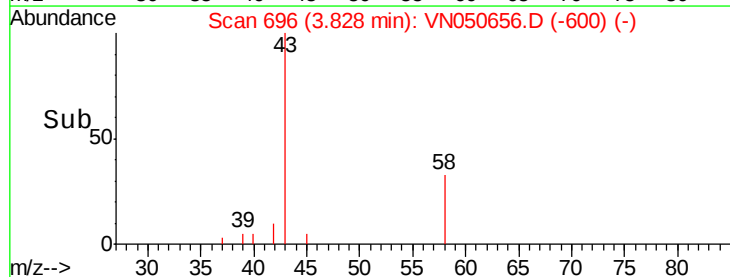
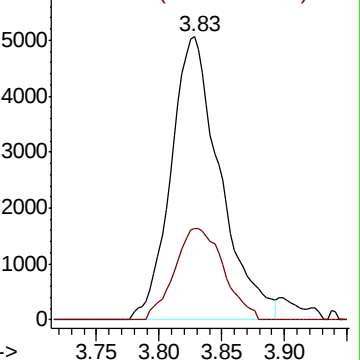
43 100

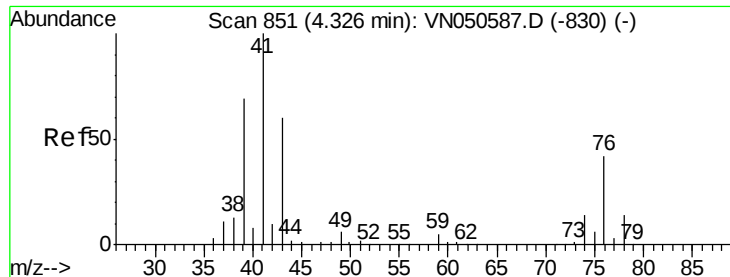
58 32.5 27.1 40.7



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

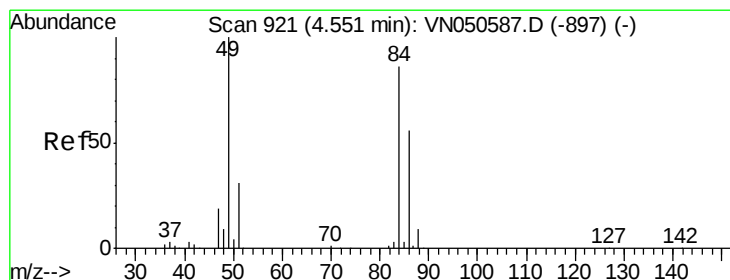
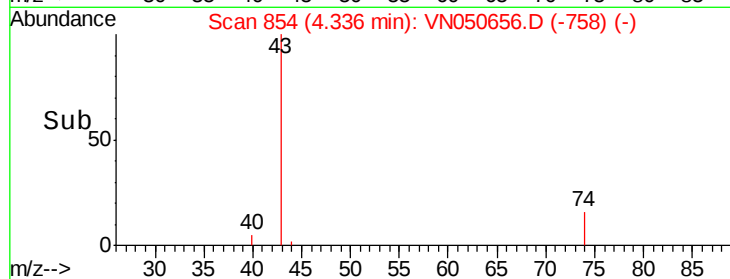
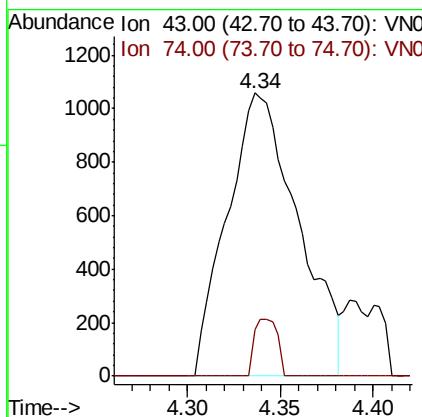
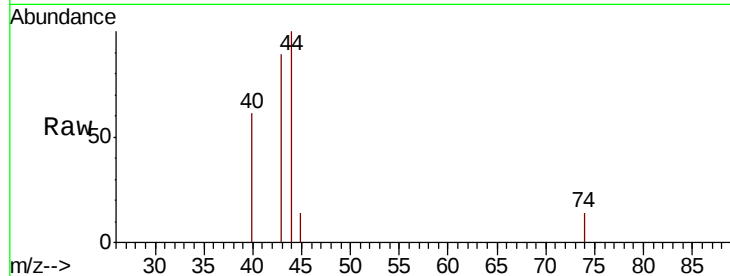




#18
Methyl Acetate
Concen: Below Cal
RT: 4.34 min Scan# 854
Delta R.T. 0.01 min
Lab File: VN050656.D
Acq: 15 Aug 2018 15:38

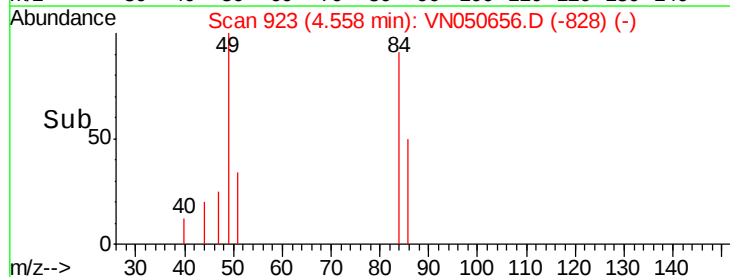
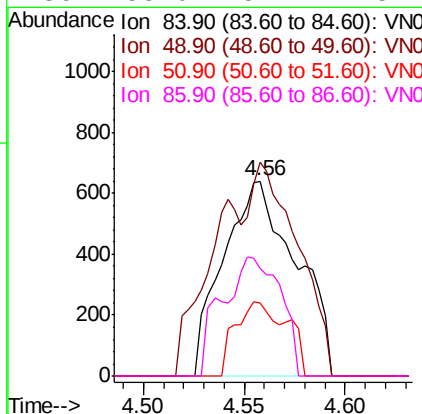
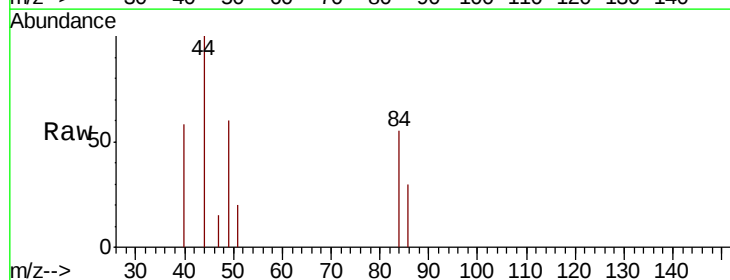
Instrument :
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948-MW-15(17)

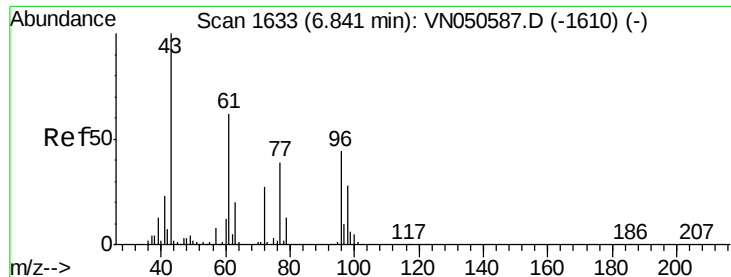
Tot Ion: 43 Resp: 2817
Ion Ratio Lower Upper
43 100
74 6.5 19.7 29.5#



#20
Methylene Chloride
Concen: Below Cal
RT: 4.56 min Scan# 923
Delta R.T. 0.01 min
Lab File: VN050656.D
Acq: 15 Aug 2018 15:38

Tgt Ion: 84 Resp: 1600
Ion Ratio Lower Upper
84 100
49 109.7 92.6 138.8
51 37.3 28.6 43.0
86 55.0 52.2 78.2

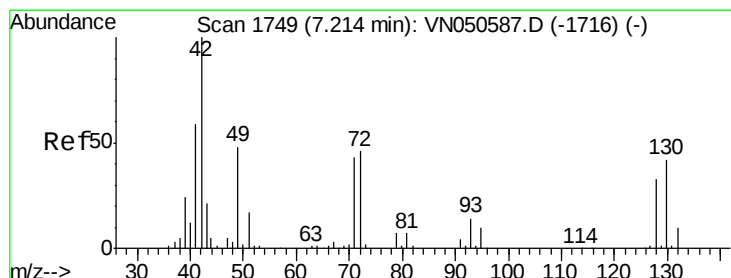
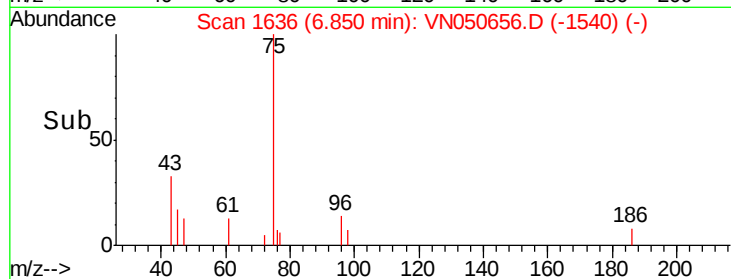
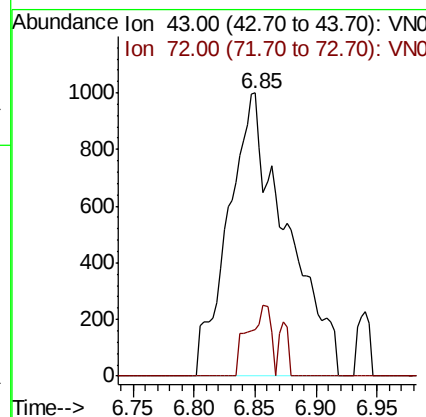
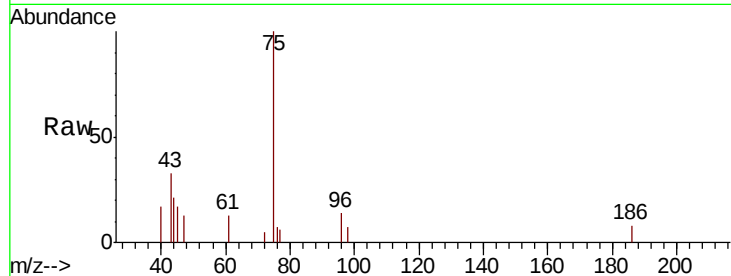




#25
2-Butanone
Concen: 1.04 ug/l
RT: 6.85 min Scan# 1636
Delta R.T. 0.01 min
Lab File: VN050656.D
Acq: 15 Aug 2018 15:38

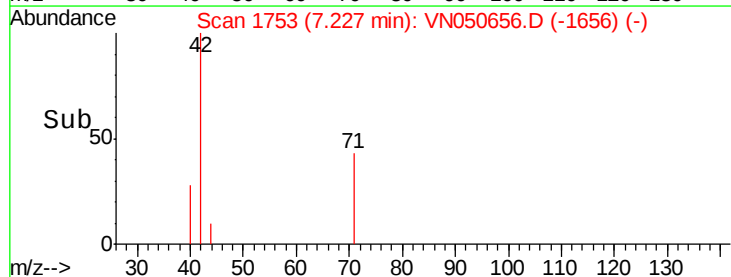
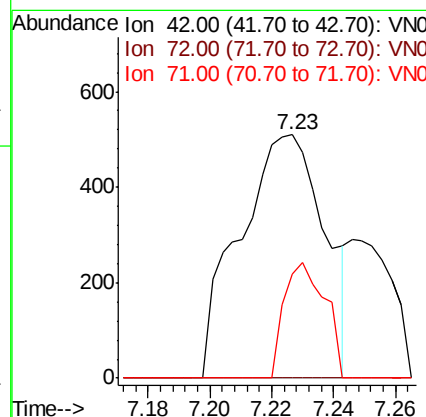
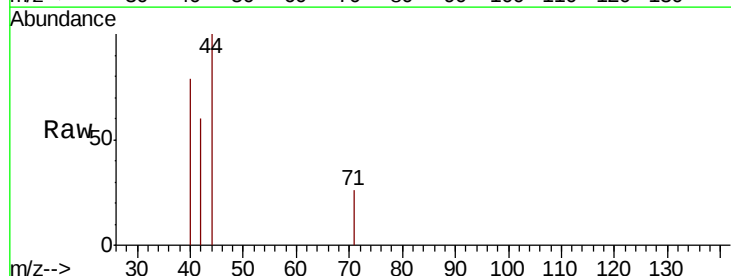
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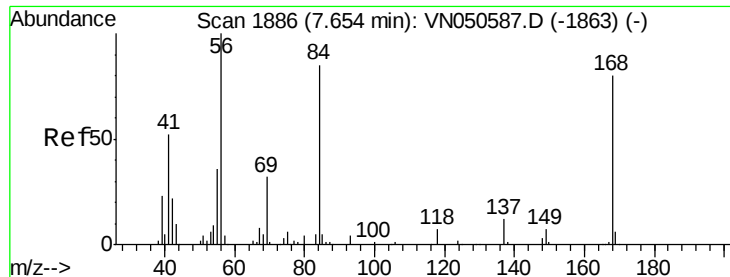
Tot Ion: 43 Resp: 3304
Ion Ratio Lower Upper
43 100
72 16.4 21.8 32.6#



#29
Tetrahydrofuran
Concen: 0.59 ug/l
RT: 7.23 min Scan# 1753
Delta R.T. 0.01 min
Lab File: VN050656.D
Acq: 15 Aug 2018 15:38

Tgt Ion: 42 Resp: 974
Ion Ratio Lower Upper
42 100
72 0.0 35.8 53.6#
71 22.6 33.4 50.0#

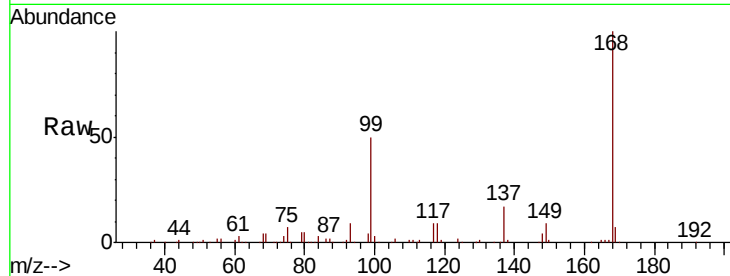




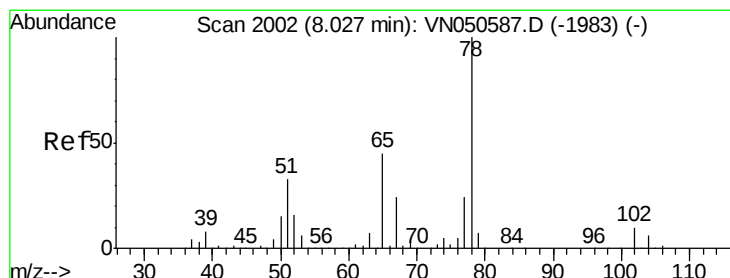
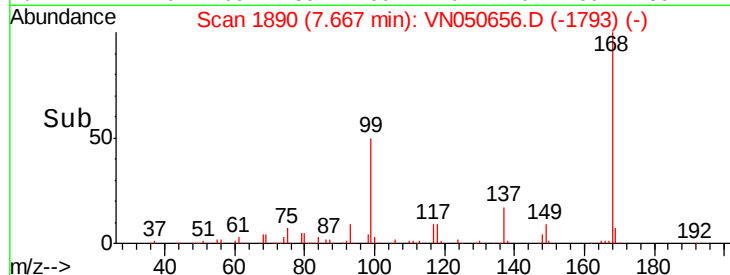
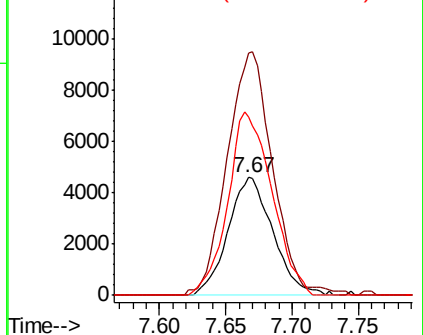
#31
Cyclohexane
Concen: 0.58 ug/l
RT: 7.67 min Scan# 1890
Delta R.T. 0.01 min
Lab File: VN050656.D
Acq: 15 Aug 2018 15:38

Instrument :
MSVOA_N
ClientSampleId :
948-MW-15(17)

Tot Ion: 56 Resp: 10840
Ion Ratio Lower Upper
56 100
69 201.8 25.8 38.6#
84 151.5 67.8 101.6#

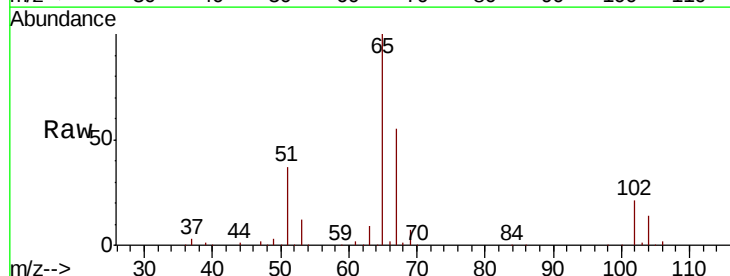


Abundance Ion 56.00 (55.70 to 56.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 84.00 (83.70 to 84.70): VN0

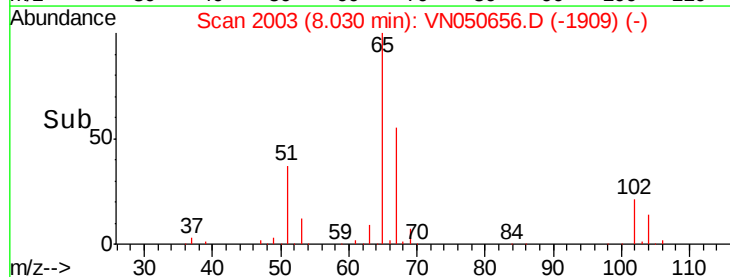
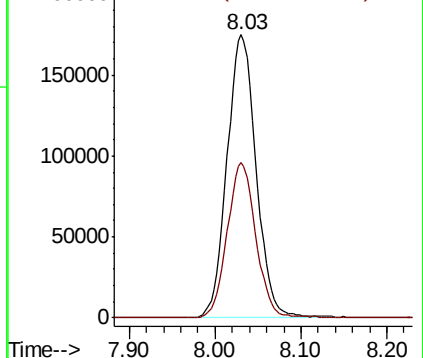


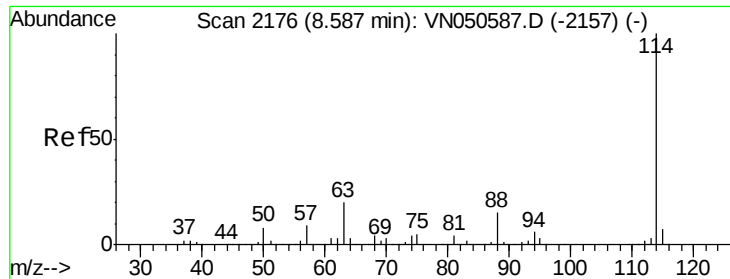
#33
1,2-Dichloroethane-d4
Concen: 53.02 ug/l
RT: 8.03 min Scan# 2003
Delta R.T. 0.00 min
Lab File: VN050656.D
Acq: 15 Aug 2018 15:38

Tgt Ion: 65 Resp: 411861
Ion Ratio Lower Upper
65 100
67 53.7 0.0 109.8



Abundance Ion 64.90 (64.60 to 65.60): VN0
Ion 66.90 (66.60 to 67.60): VN0

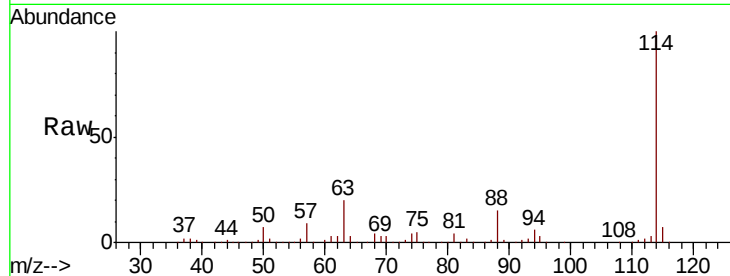




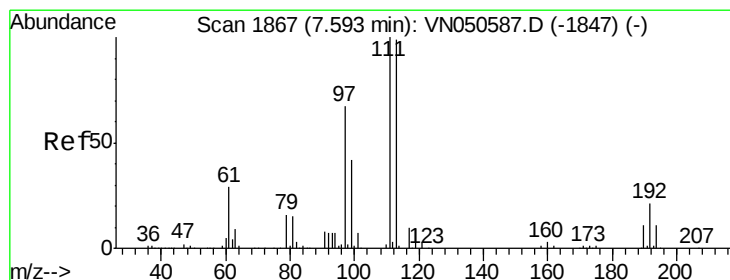
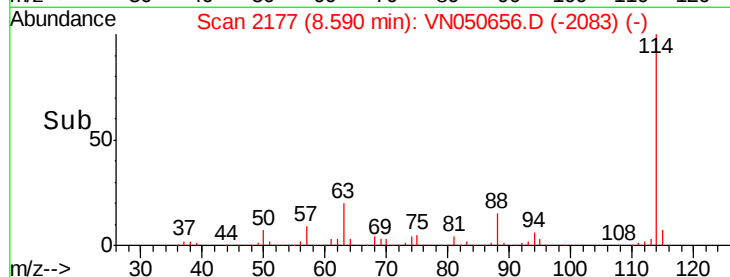
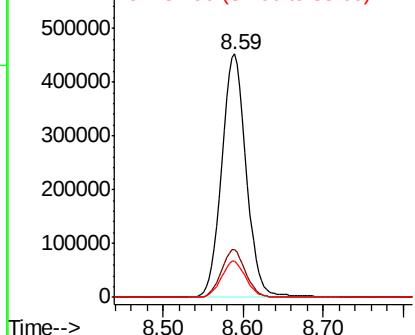
#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 8.59 min Scan# 2177
 Delta R.T. 0.00 min
 Lab File: VN050656.D
 Acq: 15 Aug 2018 15:38

Instrument :
 MSVOA_N
 ClientSampleId :
 948-MW-15(17)

Tot Ion:114 Resp: 955679
 Ion Ratio Lower Upper
 114 100
 63 19.6 0.0 40.0
 88 14.7 0.0 30.8

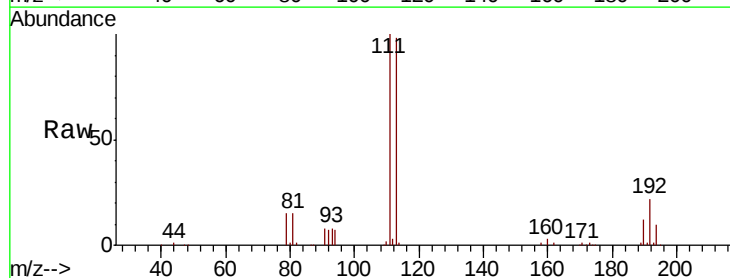


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VN
 Ion 87.90 (87.60 to 88.60): VN

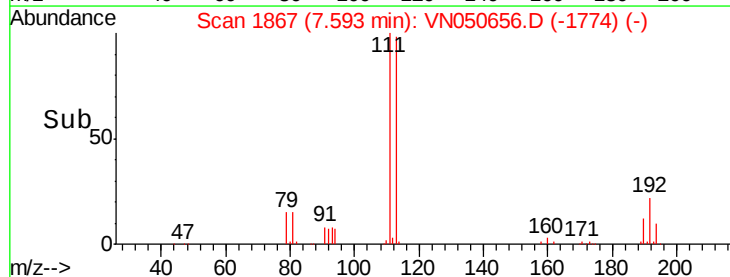
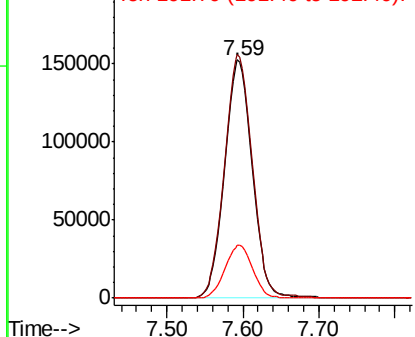


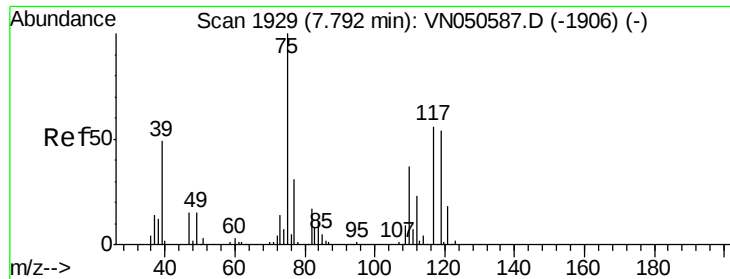
#35
 Dibromofluoromethane
 Concen: 50.80 ug/l
 RT: 7.59 min Scan# 1867
 Delta R.T. 0.00 min
 Lab File: VN050656.D
 Acq: 15 Aug 2018 15:38

Tgt Ion:113 Resp: 387627
 Ion Ratio Lower Upper
 113 100
 111 102.6 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

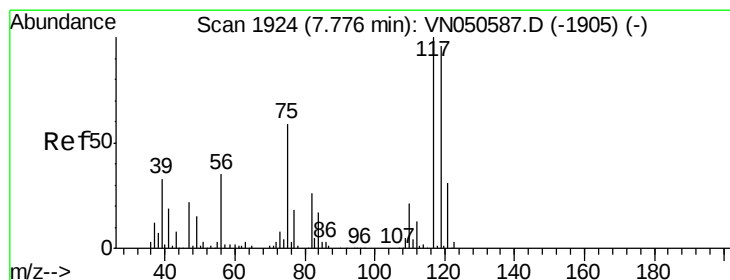
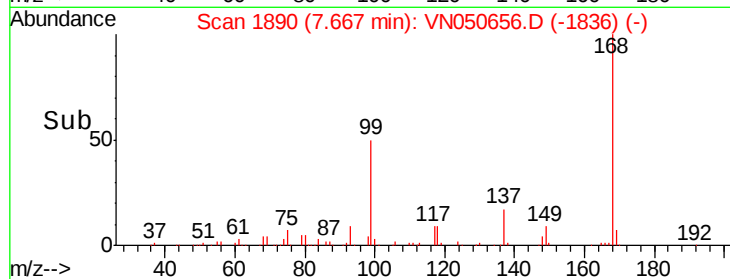
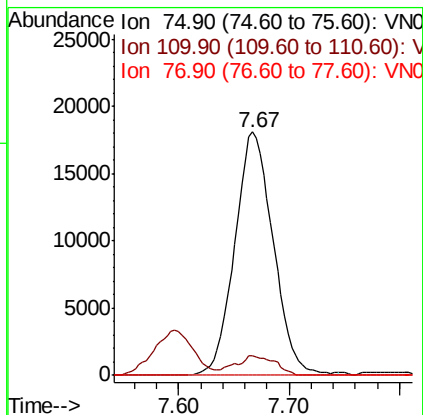
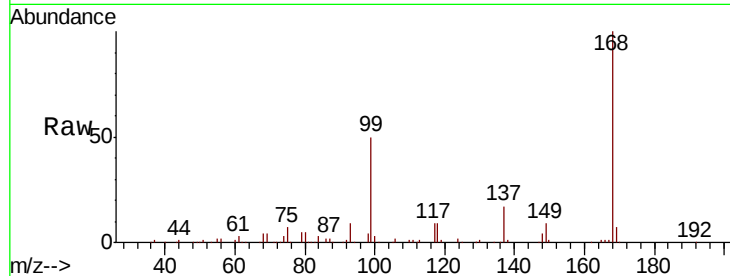




#36
 1,1-Dichloropropene
 Concen: 4.12 ug/l
 RT: 7.67 min Scan# 1890
 Delta R.T. -0.13 min
 Lab File: VN050656.D
 Acq: 15 Aug 2018 15:38

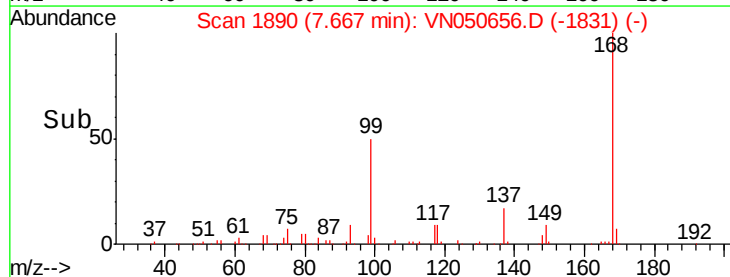
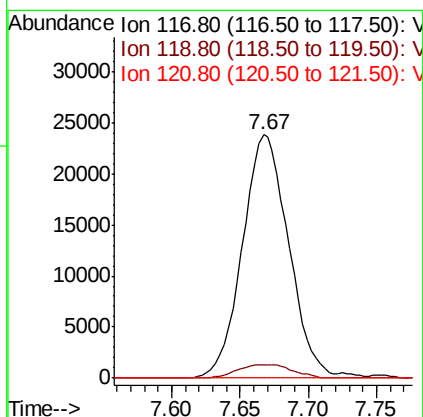
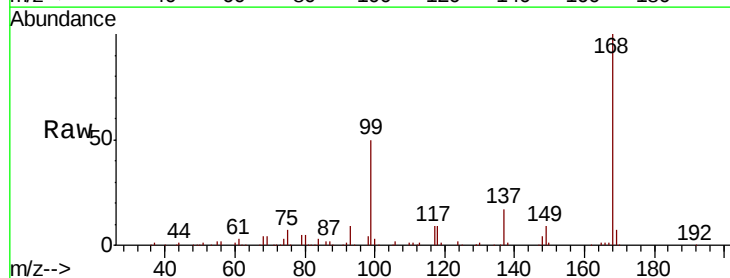
Instrument :
 MSVOA_N
 ClientSampleId :
 948-MW-15(17)

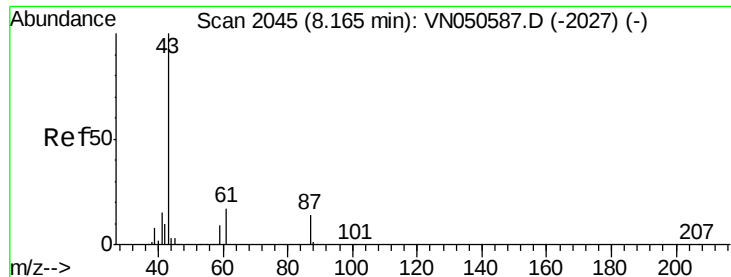
Tot Ion	Ratio	Lower	Upper
75	100		
110	8.4	18.3	54.9#
77	0.0	25.0	37.4#



#38
 Carbon Tetrachloride
 Concen: 5.07 ug/l
 RT: 7.67 min Scan# 1890
 Delta R.T. -0.11 min
 Lab File: VN050656.D
 Acq: 15 Aug 2018 15:38

Tgt Ion	Ratio	Lower	Upper
117	100		
119	5.4	76.6	115.0#
121	0.0	25.0	37.6#





#43

Isopropyl Acetate

Concen: 0.33 ug/l

RT: 8.24 min Scan# 2068

Delta R.T. 0.07 min

Lab File: VN050656.D

Acq: 15 Aug 2018 15:38

Instrument :

MSVOA_N

ClientSampleId :

948-MW-15(17)

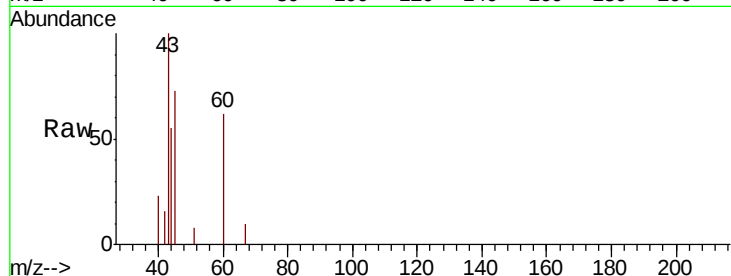
Tot Ion: 43 Resp: 3629

Ion Ratio Lower Upper

43 100

61 0.0 16.2 24.2#

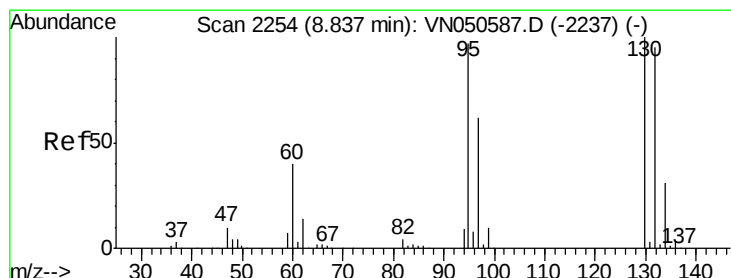
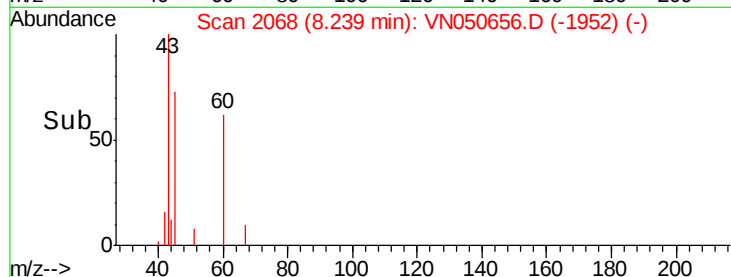
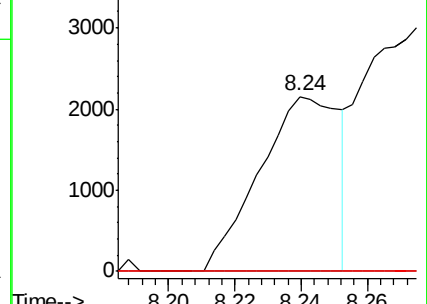
87 0.0 10.9 16.3#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 61.00 (60.70 to 61.70): VN0

Ion 87.00 (86.70 to 87.70): VN0



#44

Trichloroethene

Concen: 0.29 ug/l

RT: 8.84 min Scan# 2254

Delta R.T. 0.00 min

Lab File: VN050656.D

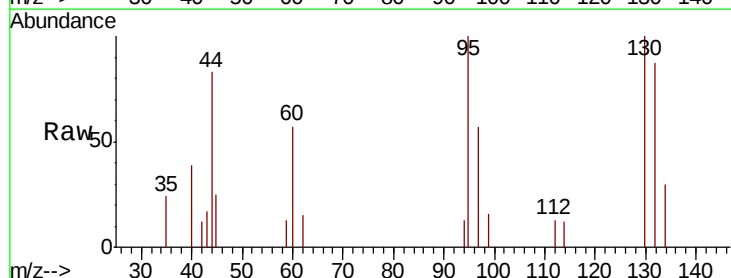
Acq: 15 Aug 2018 15:38

Tgt Ion: 130 Resp: 2516

Ion Ratio Lower Upper

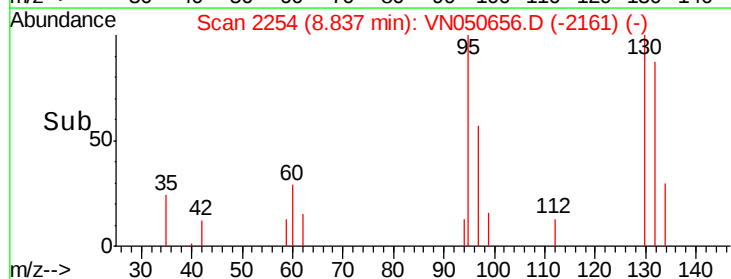
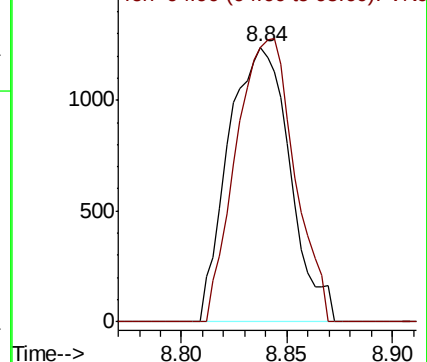
130 100

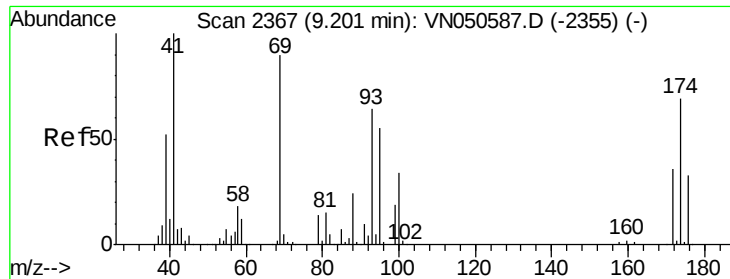
95 99.9 0.0 193.8



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VN0





#48

Methvl methacrylate

Concen: 0.41 ug/l

RT: 9.43 min Scan# 2438

Delta R.T. 0.23 min

Lab File: VN050656.D

Acq: 15 Aug 2018 15:38

Instrument :

MSVOA_N

ClientSampleId :

948-MW-15(17)

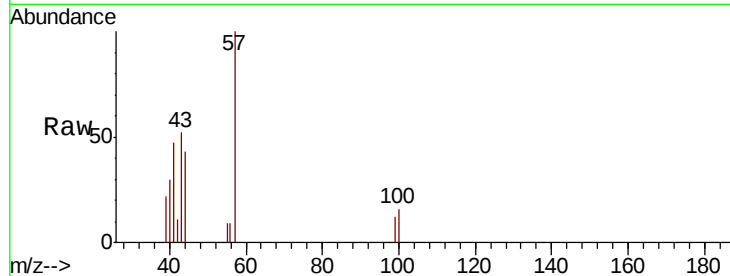
Tot Ion: 41 Resp: 2288

Ion Ratio Lower Upper

41 100

69 0.0 73.4 110.0#

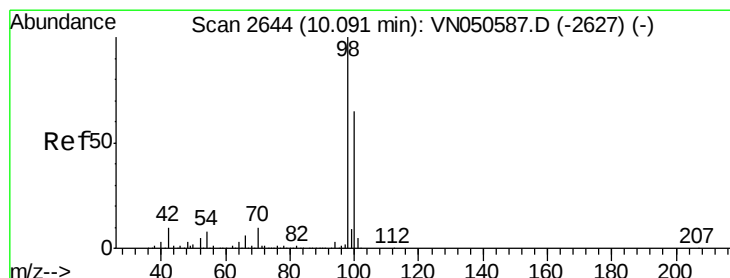
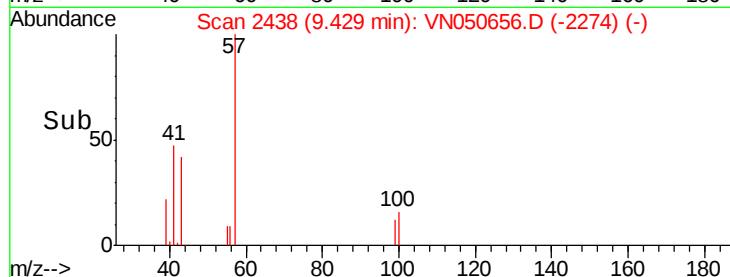
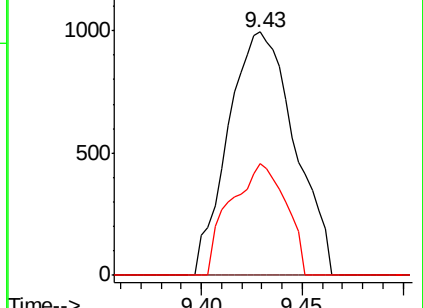
39 38.3 43.0 64.6#



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: 47.40 ug/l

RT: 10.09 min Scan# 2644

Delta R.T. 0.00 min

Lab File: VN050656.D

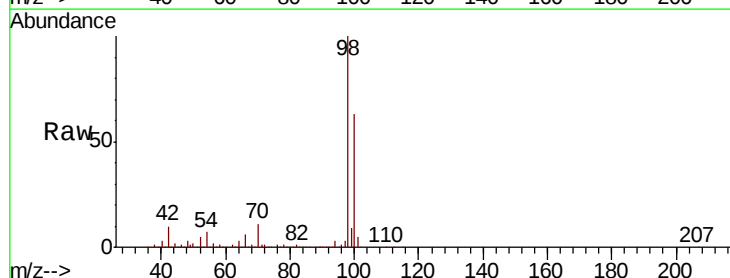
Acq: 15 Aug 2018 15:38

Tgt Ion: 98 Resp: 1361030

Ion Ratio Lower Upper

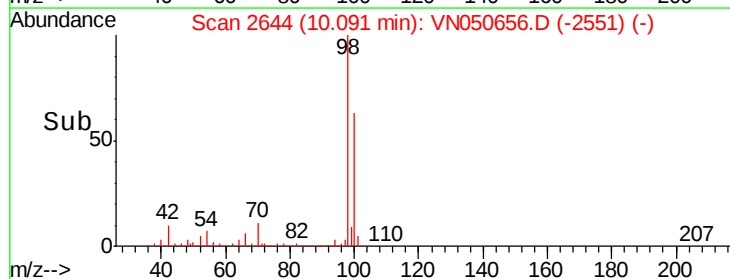
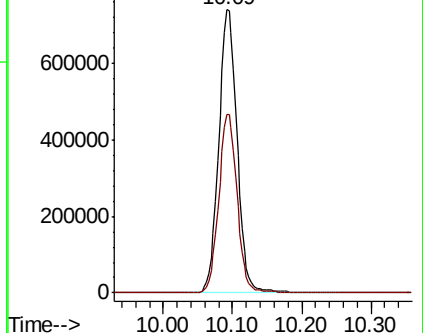
98 100

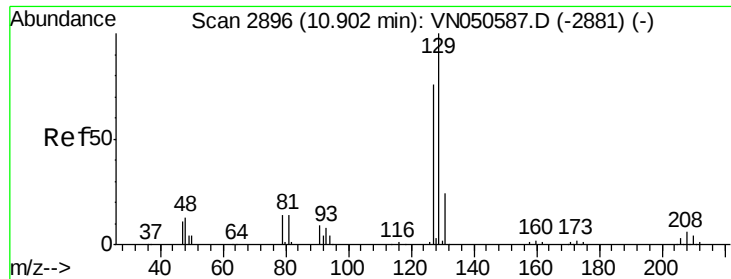
100 63.0 51.8 77.8



Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN0

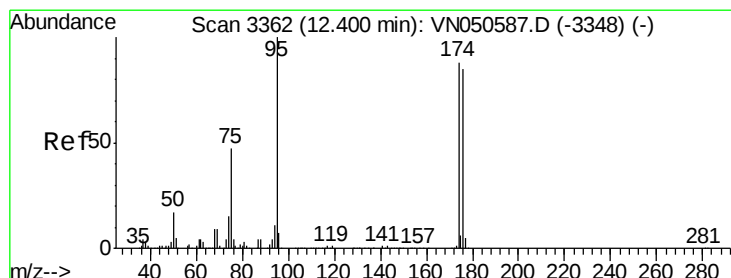
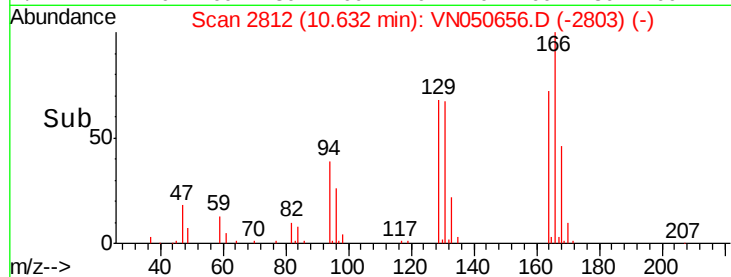
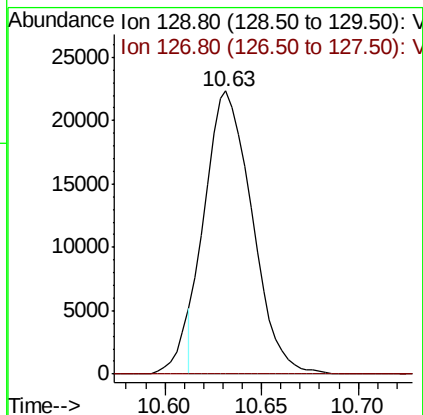
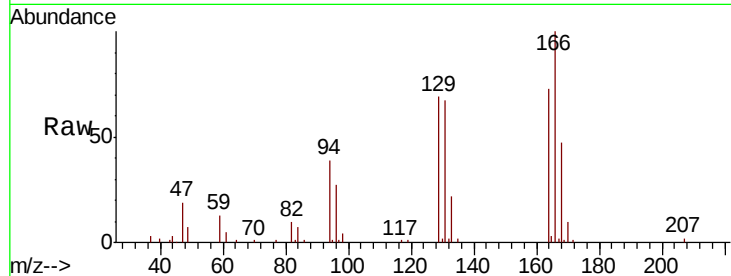




#60
 Dibromochloromethane
 Concen: 4.72 ug/l
 RT: 10.63 min Scan# 2812
 Delta R.T. -0.27 min
 Lab File: VN050656.D
 Acq: 15 Aug 2018 15:38

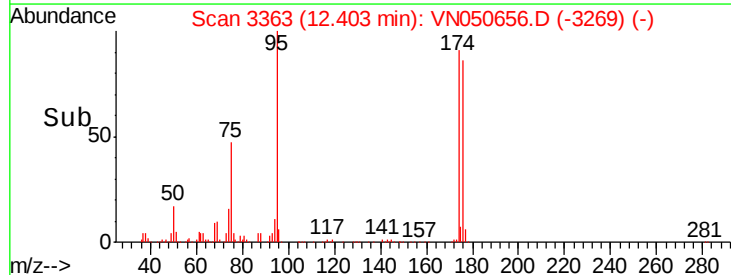
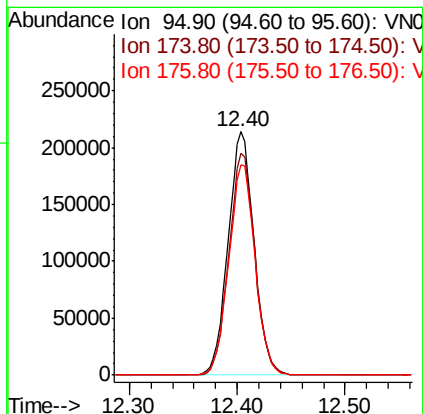
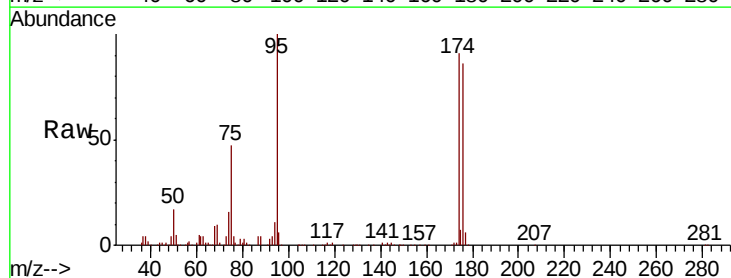
Instrument :
 MSVOA_N
 ClientSampleId :
 948-MW-15(17)

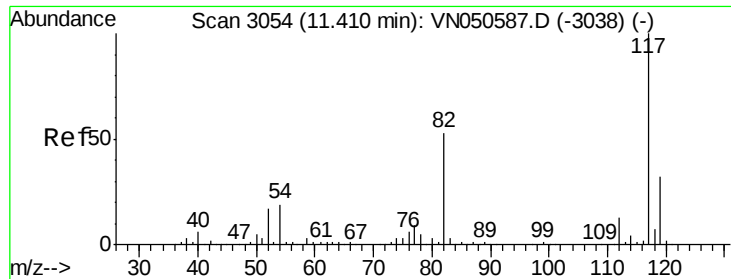
Tot Ion:129 Resp: 37602
 Ion Ratio Lower Upper
 129 100
 127 0.0 38.9 116.7#



#62
 4-Bromofluorobenzene
 Concen: 37.66 ug/l
 RT: 12.40 min Scan# 3363
 Delta R.T. 0.00 min
 Lab File: VN050656.D
 Acq: 15 Aug 2018 15:38

Tgt Ion: 95 Resp: 357276
 Ion Ratio Lower Upper
 95 100
 174 92.0 0.0 177.8
 176 87.9 0.0 175.0

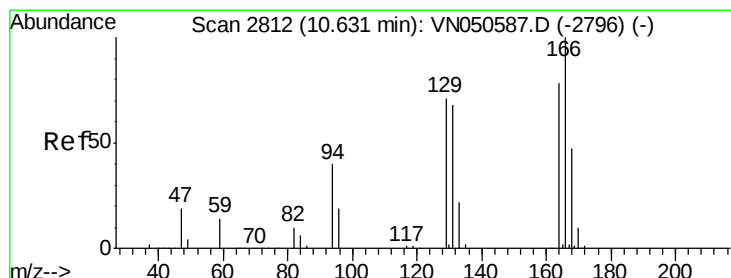
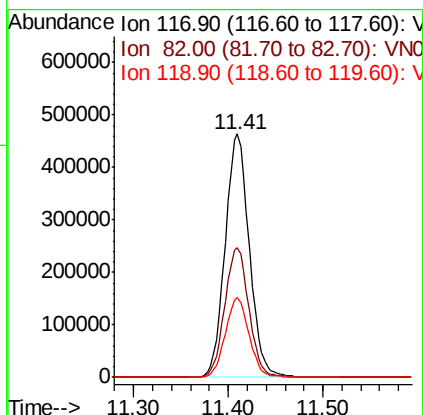
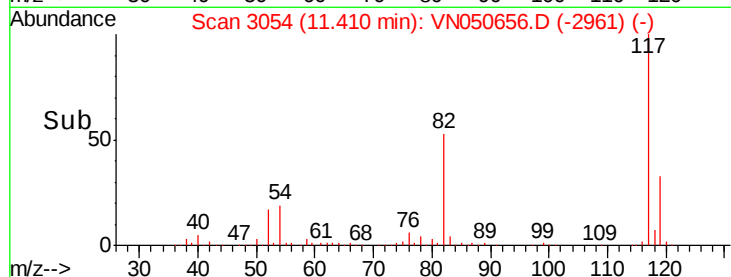
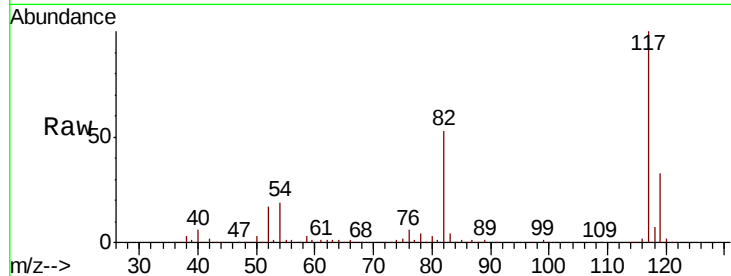




#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 11.41 min Scan# 3054
Delta R.T. 0.00 min
Lab File: VN050656.D
Acq: 15 Aug 2018 15:38

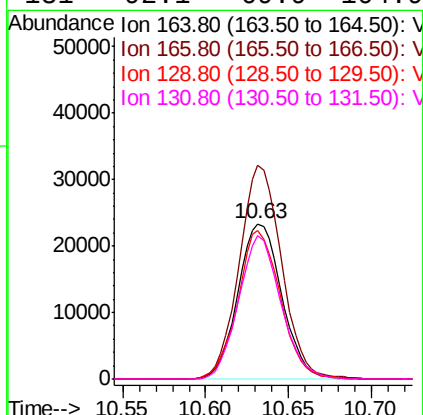
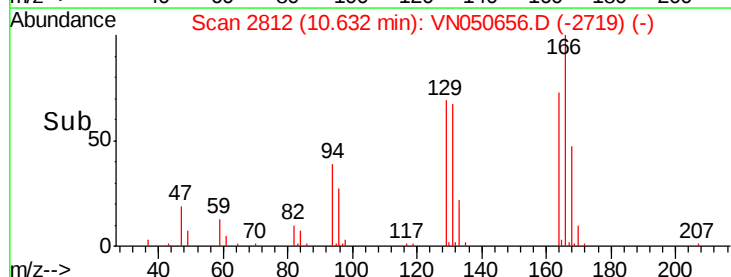
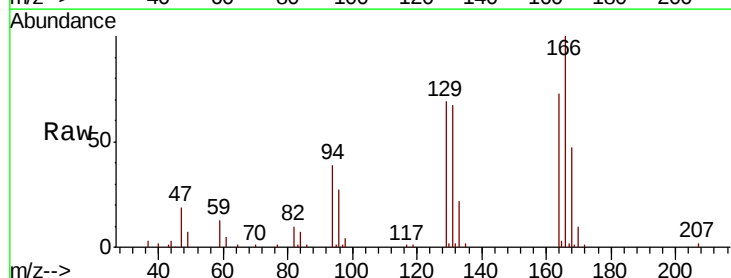
Instrument :
MSVOA_N
ClientSampleId :
948-MW-15(17)

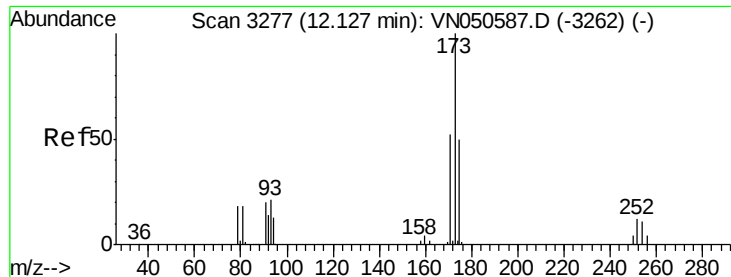
Tot Ion:117 Resp: 823004
Ion Ratio Lower Upper
117 100
82 53.4 42.4 63.6
119 32.7 25.8 38.8



#64
Tetrachloroethene
Concen: 5.62 ug/l
RT: 10.63 min Scan# 2812
Delta R.T. 0.00 min
Lab File: VN050656.D
Acq: 15 Aug 2018 15:38

Tgt Ion:164 Resp: 42991
Ion Ratio Lower Upper
164 100
166 137.6 102.1 153.1
129 95.6 72.7 109.1
131 92.1 69.9 104.9





#71

Bromoform

Concen: 0.70 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. 0.28 min

Lab File: VN050656.D

Acq: 15 Aug 2018 15:38

Instrument :

MSVOA_N

ClientSampleId :

948-MW-15(17)

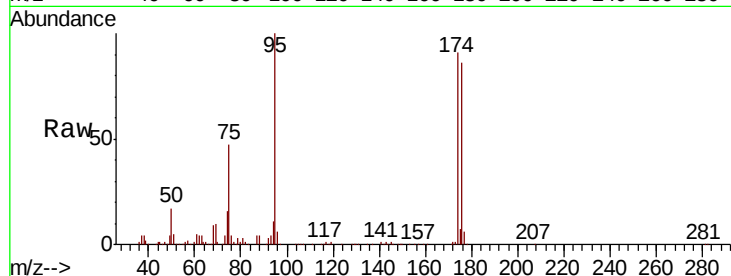
Tot Ion:173 Resp: 3575

Ion Ratio Lower Upper

173 100

175 569.7 24.4 73.2#

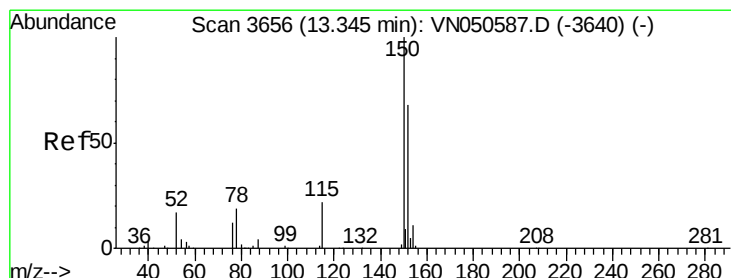
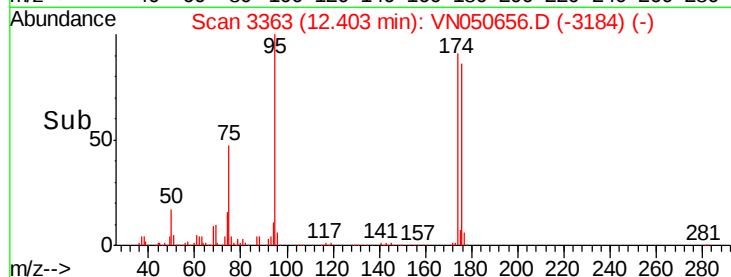
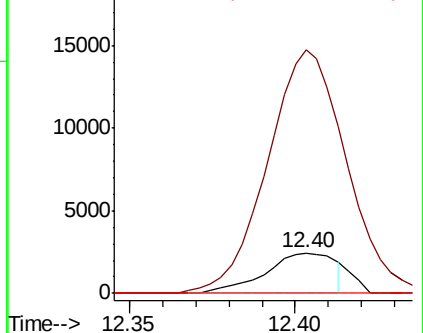
254 0.0 0.0 0.0



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: VN050656.D

Acq: 15 Aug 2018 15:38

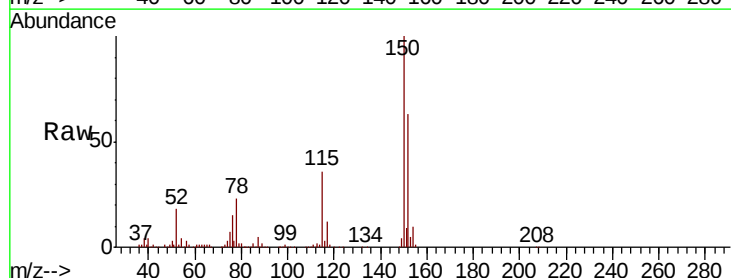
Tgt Ion:152 Resp: 278997

Ion Ratio Lower Upper

152 100

115 57.3 28.1 84.2

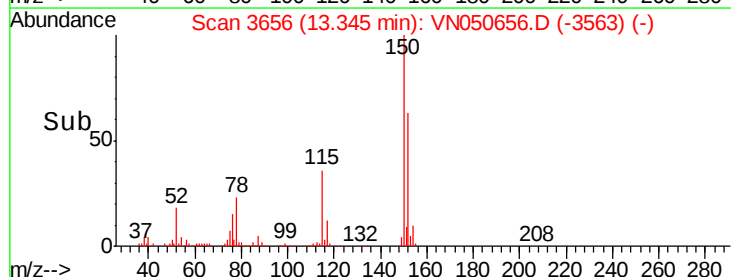
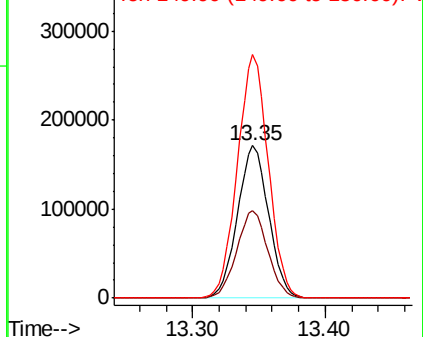
150 158.8 0.0 347.8

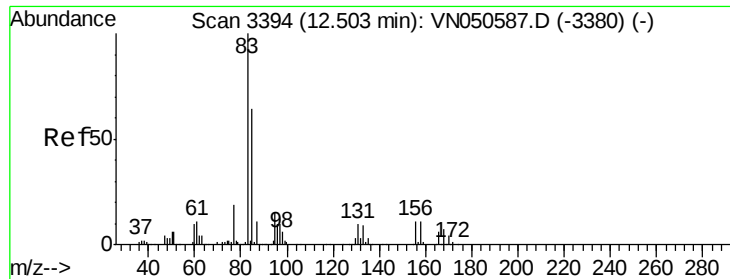


Abundance Ion 151.90 (151.60 to 152.60): V

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: 12.41 min Scan# 3364

Delta R.T. -0.10 min

Lab File: VN050656.D

Acq: 15 Aug 2018 15:38

Instrument :

MSVOA_N

ClientSampleId :

948-MW-15(17)

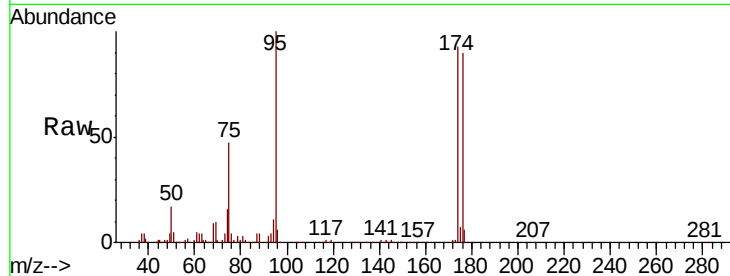
Tot Ion: 83 Resp: 112

Ion Ratio Lower Upper

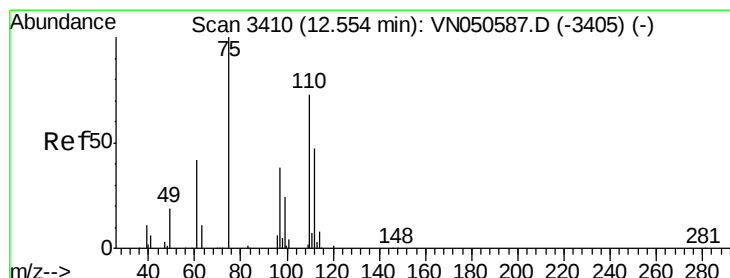
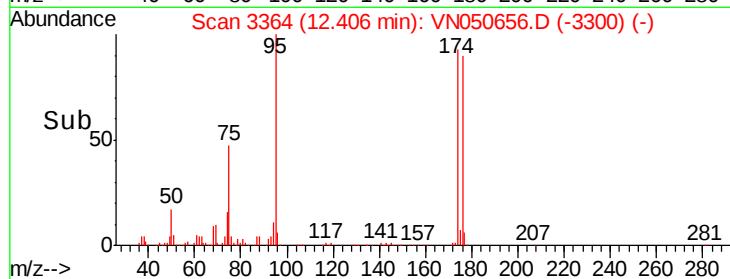
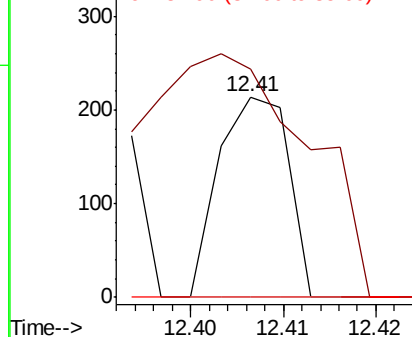
83 100

131 283.9 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



#76

1,2,3-Trichloropropane

Concen: 37.33 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. -0.15 min

Lab File: VN050656.D

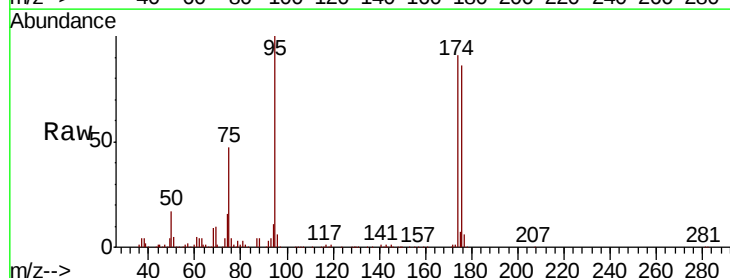
Acq: 15 Aug 2018 15:38

Tgt Ion: 75 Resp: 169435

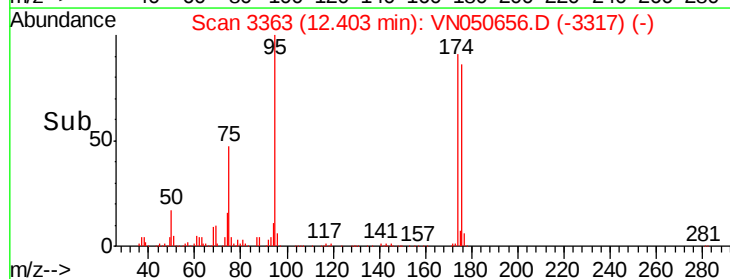
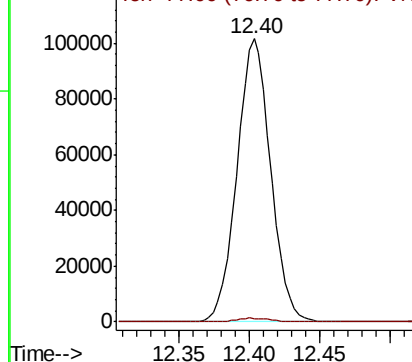
Ion Ratio Lower Upper

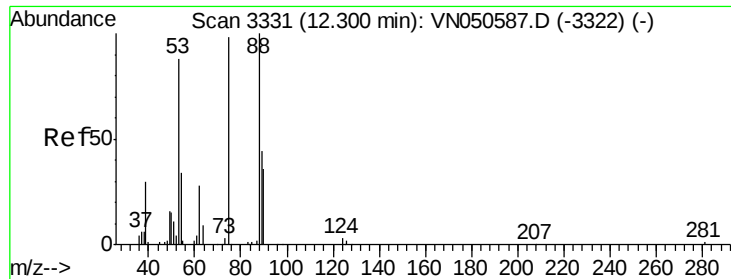
75 100

77 1.4 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VNO
Ion 77.00 (76.70 to 77.70): VNO





#81

trans-1,4-Dichloro-2-butene

Concen: 135.02 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. 0.10 min

Lab File: VN050656.D

Acq: 15 Aug 2018 15:38

Instrument :

MSVOA_N

ClientSampleId :

948-MW-15(17)

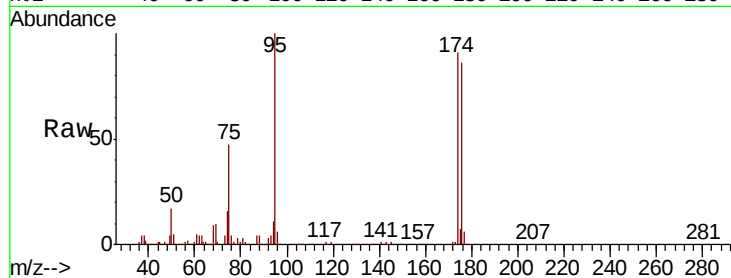
Tot Ion: 75 Resp: 169435

Ion Ratio Lower Upper

75 100

53 0.2 72.2 108.2#

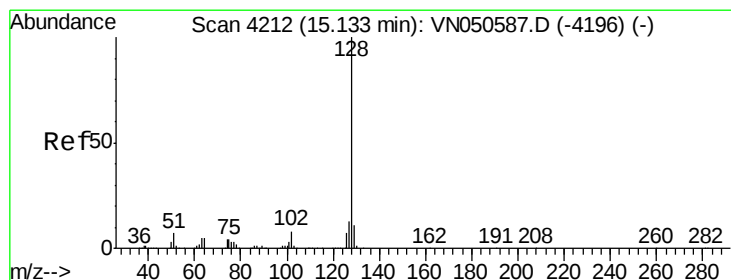
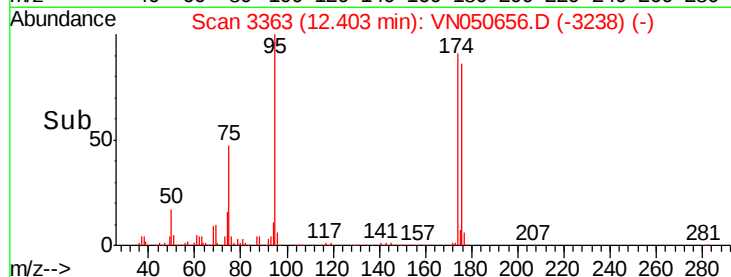
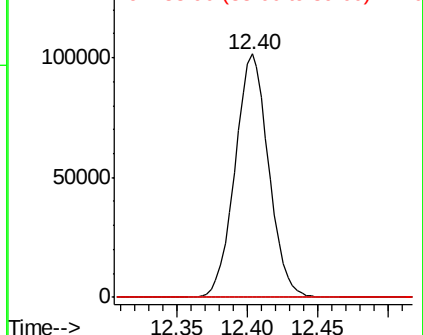
89 0.0 36.3 54.5#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 53.00 (52.70 to 53.70): VN0

Ion 88.90 (88.60 to 89.60): VN0



#95

Naphthalene

Concen: 3.88 ug/l

RT: 15.13 min Scan# 4211

Delta R.T. -0.00 min

Lab File: VN050656.D

Acq: 15 Aug 2018 15:38

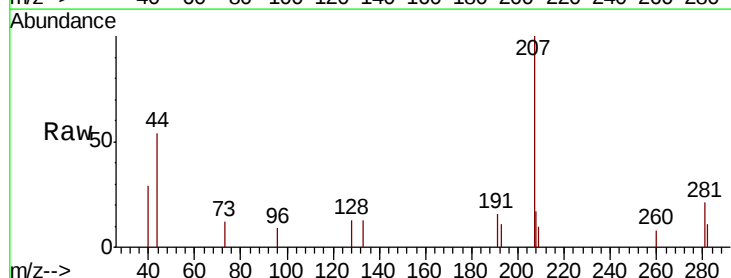
Tgt Ion: 128 Resp: 221

Ion Ratio Lower Upper

128 100

127 0.0 10.3 15.5#

129 0.0 8.5 12.7#



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

