

Data Path : W:\HPCHEM1\MSVOA_N\DATA\VN091715\
 Data File : VN027286.D
 Acq On : 18 Sep 2015 6:23
 Operator : MD\FY
 Sample : G3706-09
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 45 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 MW-10

Quant Time: Sep 18 08:10:55 2015
 Quant Method : W:\HPCHEM1\MSVOA_N\METHODS\82N091515W.M
 Quant Title : SW846 8260
 QLast Update : Tue Sep 15 21:12:09 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.75	168	757029	50.00	ug/l	0.00
35) 1,4-Difluorobenzene	8.68	114	1363313	50.00	ug/l	0.00
64) Chlorobenzene-d5	11.52	117	1143932	50.00	ug/l	0.00
73) 1,4-Dichlorobenzene-d4	13.47	152	413123	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
34) 1,2-Dichloroethane-d4	8.12	65	751456	48.45	ug/l	0.00
Spiked Amount			Recovery	=	96.90%	
36) Dibromofluoromethane	7.68	113	488880	51.73	ug/l	0.00
Spiked Amount			Recovery	=	103.46%	
51) Toluene-d8	10.19	98	1991109	53.81	ug/l	0.00
Spiked Amount			Recovery	=	107.62%	
63) 4-Bromofluorobenzene	12.52	95	676735	51.53	ug/l	0.00
Spiked Amount			Recovery	=	103.06%	

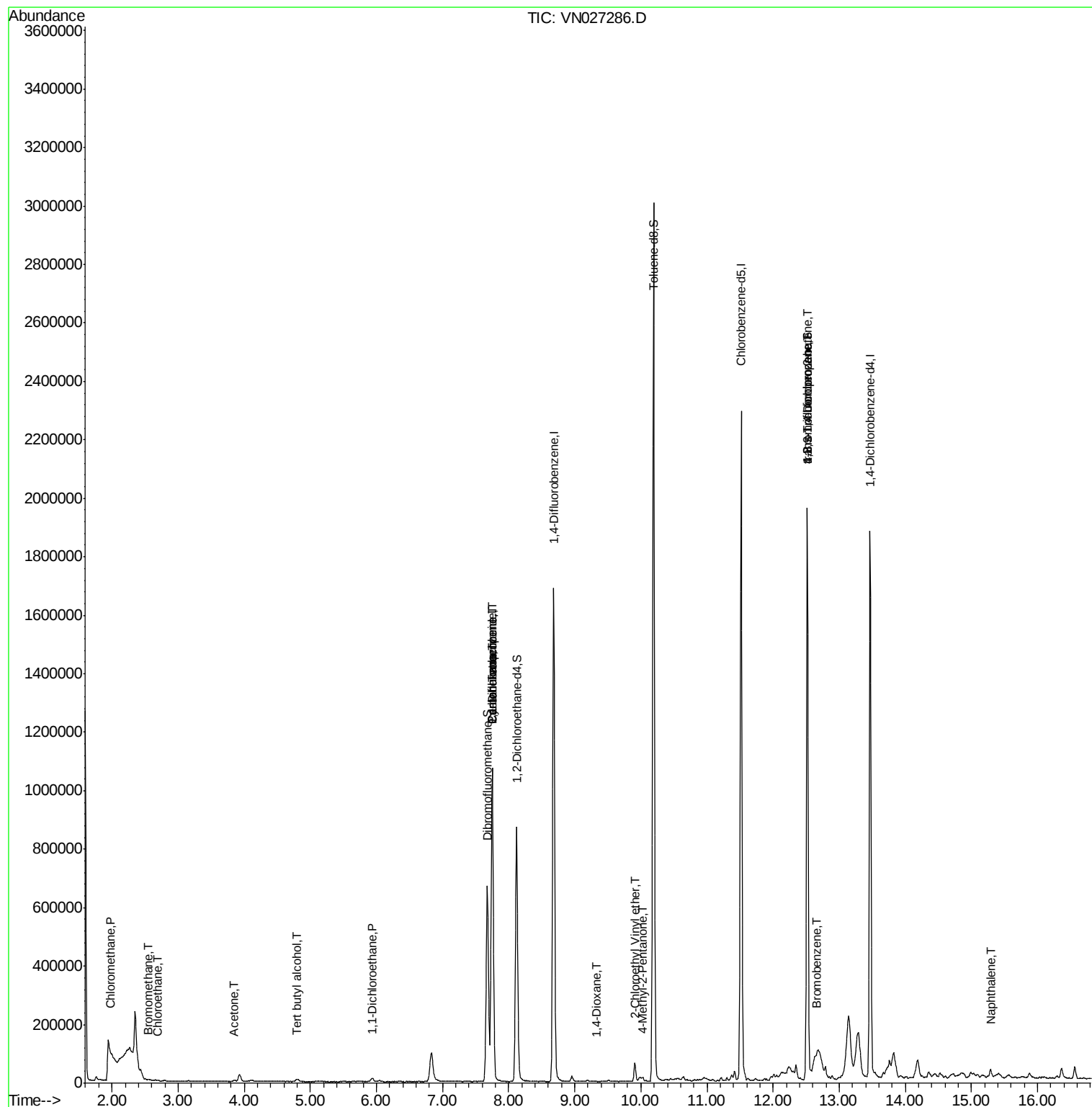
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
4) Chloromethane	1.99	50	213	1.13	ug/l #	42
6) Bromomethane	2.55	94	453	1.68	ug/l #	4
7) Chloroethane	2.69	64	2952	0.41	ug/l	96
12) Tert butyl alcohol	4.79	59	5802	3.83	ug/l #	88
17) Acetone	3.85	43	6508	1.56	ug/l #	80
25) 1,1-Dichloroethane	5.92	63	8191	0.34	ug/l	97
32) Cyclohexane	7.75	56	25599	0.28	ug/l #	5
37) 1,1-Dichloropropene	7.75	75	80820	5.06	ug/l #	50
38) Ethyl Acetate	7.01	43	350	Below Cal	#	81
39) Carbon Tetrachloride	7.75	117	85745	5.71	ug/l #	16
50) 1,4-Dioxane	9.32	88	584	3.92	ug/l #	55
52) 4-Methyl-2-Pentanone	10.03	43	4806	0.36	ug/l #	38
59) 2-Chloroethyl Vinyl ether	9.91	63	3182	0.40	ug/l #	81
76) 1,1,2,2-Tetrachloroethane	12.62	83	852	Below Cal	#	25
77) 1,2,3-Trichloropropane	12.52	75	389104	31.16	ug/l #	1
78) Bromobenzene	12.65	156	59062	6.62	ug/l #	1
82) trans-1,4-Dichloro-2-buten	12.52	75	389104	76.55	ug/l #	4
93) 1,2-Dibromo-3-Chloropropan	14.40	75	216	Below Cal	#	9
96) Naphthalene	15.29	128	21344	0.89	ug/l	99

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

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#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 7.75 min Scan# 1917

Delta R.T. 0.00 min

Lab File: VN027286.D

Acq: 18 Sep 2015 6:23

Instrument :

MSVOA_N

ClientSampled :

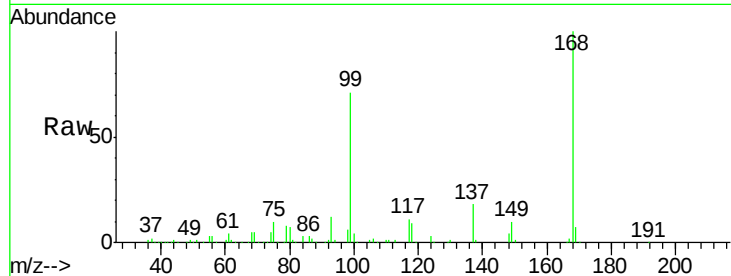
MW-10

Tgt Ion:168 Resp: 757029

Ion Ratio Lower Upper

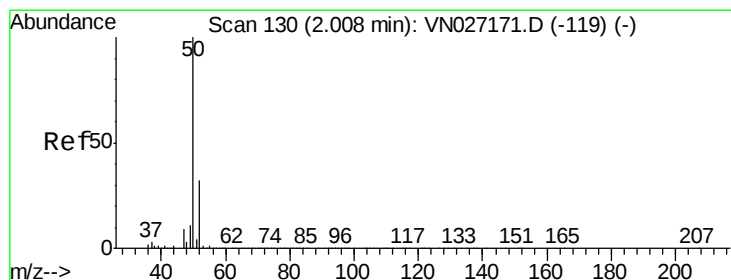
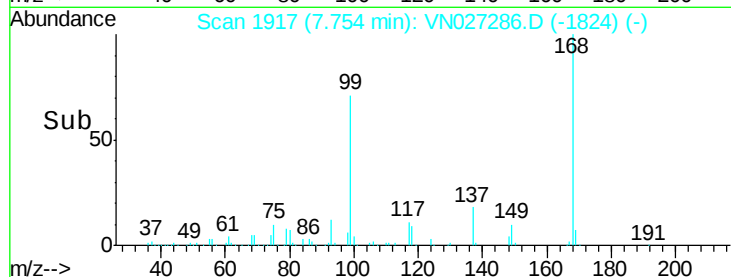
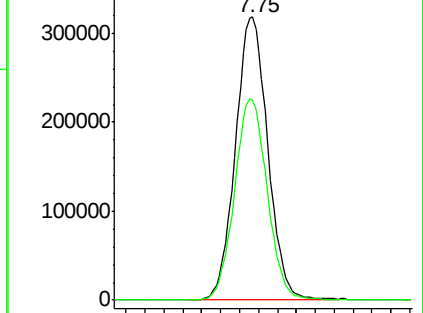
168 100

99 70.7 50.4 75.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO



#4

Chloromethane

Concen: 1.13 ug/l

RT: 1.99 min Scan# 124

Delta R.T. -0.02 min

Lab File: VN027286.D

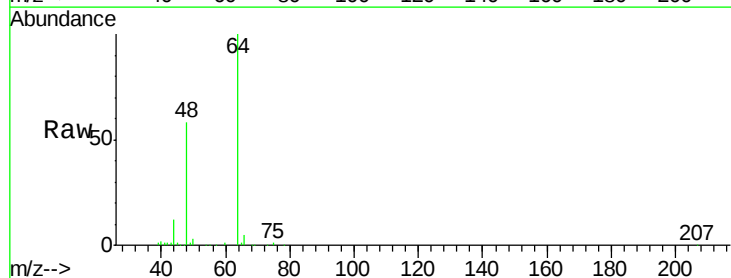
Acq: 18 Sep 2015 6:23

Tgt Ion: 50 Resp: 213

Ion Ratio Lower Upper

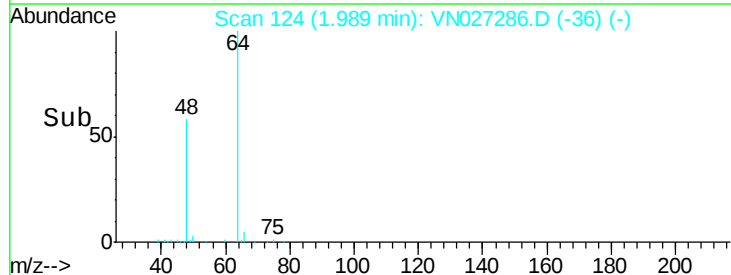
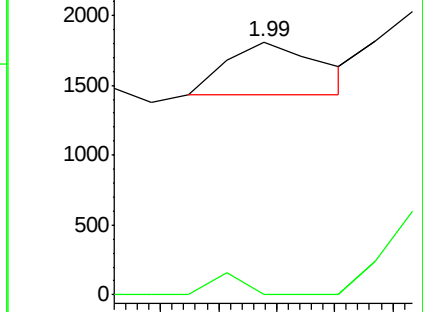
50 100

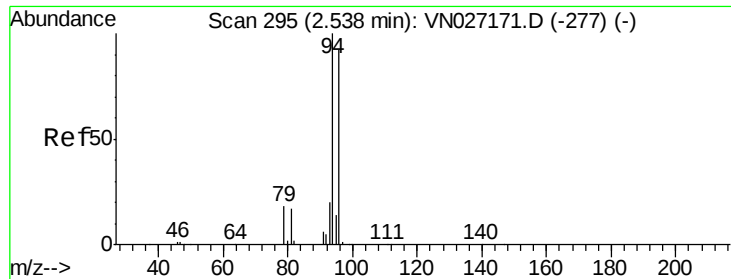
52 0.0 25.9 38.9#



Abundance Ion 49.90 (49.60 to 50.60): VNO

Ion 51.90 (51.60 to 52.60): VNO





#6

Bromomethane

Concen: 1.68 ug/l

RT: 2.55 min Scan# 297

Delta R.T. 0.01 min

Lab File: VN027286.D

Acq: 18 Sep 2015 6:23

Instrument :

MSVOA_N

ClientSampled :

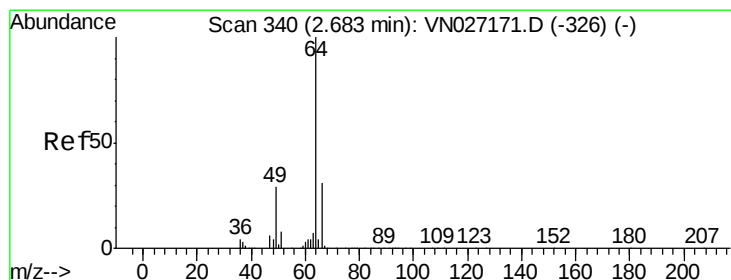
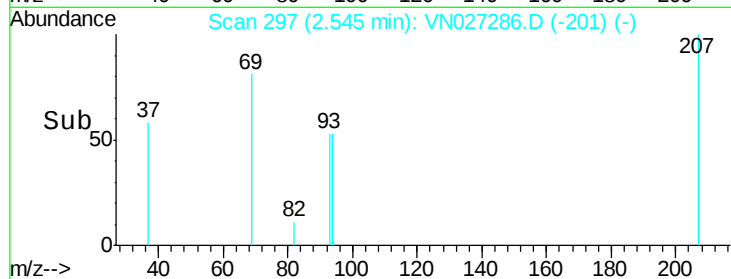
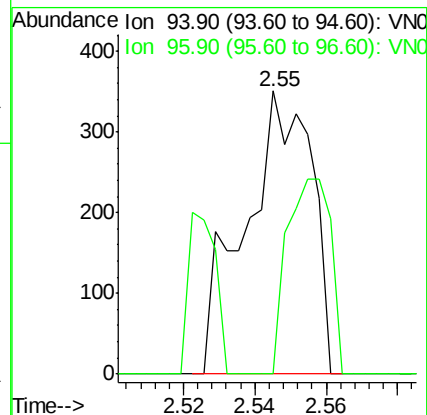
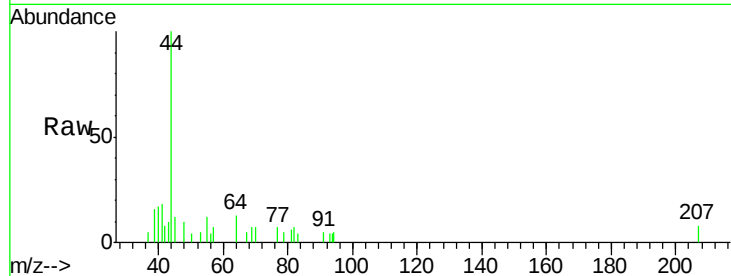
MW-10

Tgt Ion: 94 Resp: 453

Ion Ratio Lower Upper

94 100

96 0.0 73.4 110.2#



#7

Chloroethane

Concen: 0.41 ug/l

RT: 2.69 min Scan# 342

Delta R.T. 0.01 min

Lab File: VN027286.D

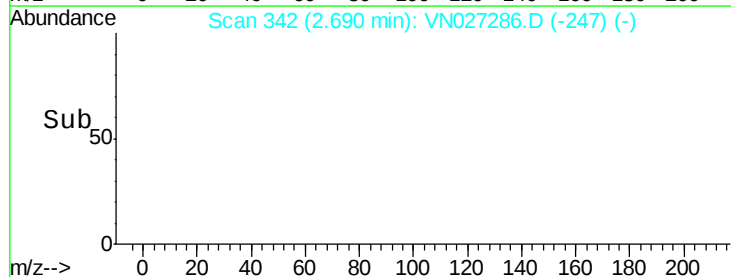
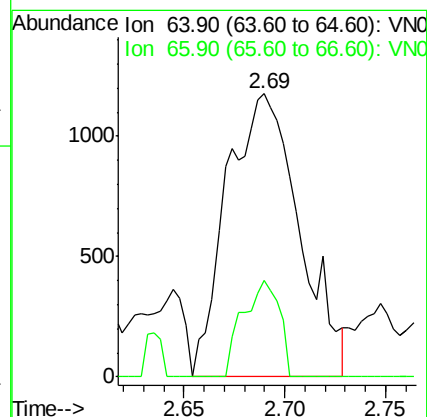
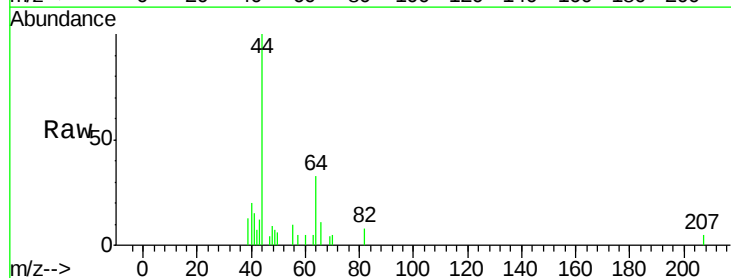
Acq: 18 Sep 2015 6:23

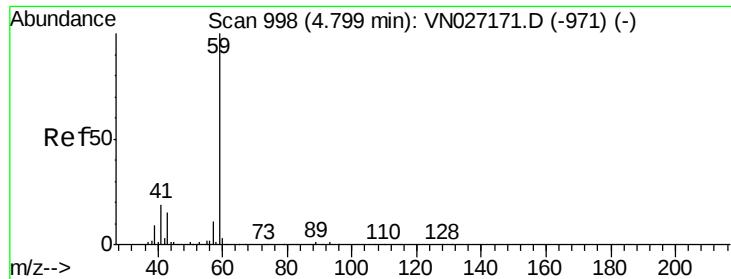
Tgt Ion: 64 Resp: 2952

Ion Ratio Lower Upper

64 100

66 34.0 25.5 38.3

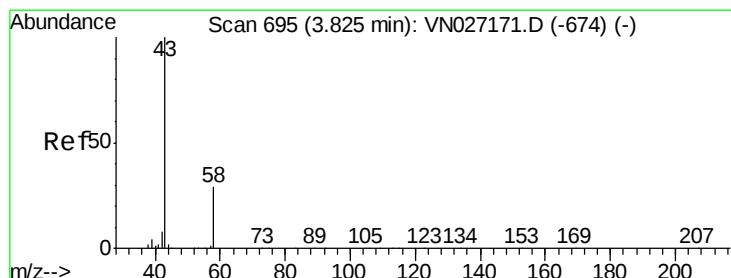
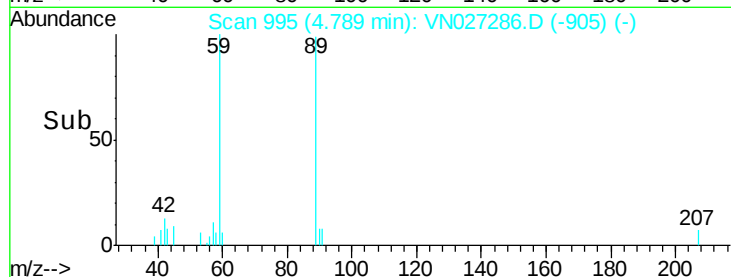
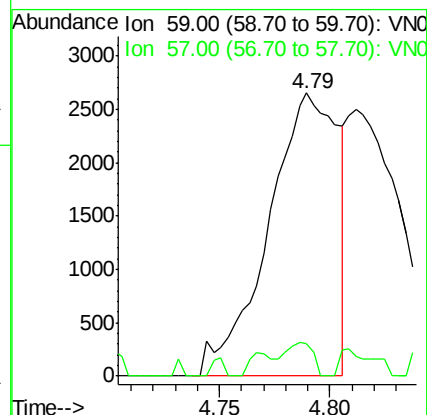
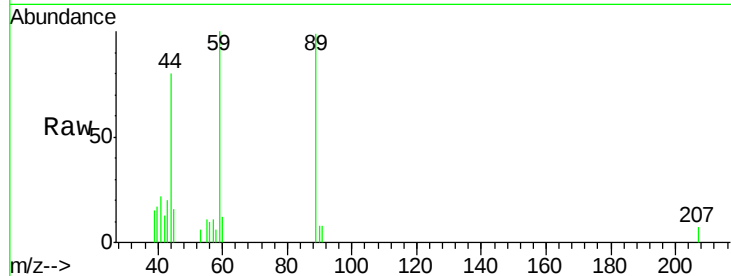




#12
Tert butyl alcohol
Concen: 3.83 ug/l
RT: 4.79 min Scan# 995
Delta R.T. -0.01 min
Lab File: VN027286.D
Acq: 18 Sep 2015 6:23

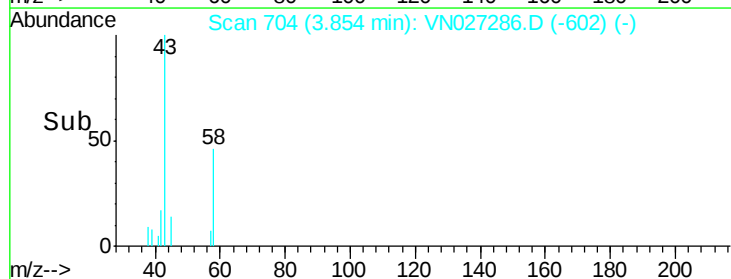
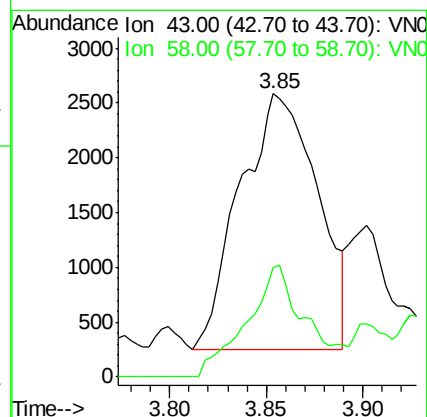
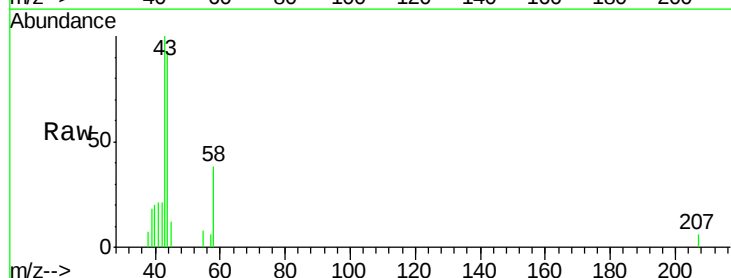
Instrument :
MSVOA_N
ClientSampled :
MW-10

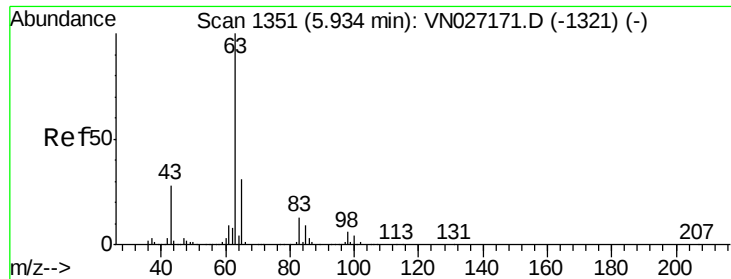
Tgt Ion: 59 Resp: 5802
Ion Ratio Lower Upper
59 100
57 5.0 7.6 11.4#



#17
Acetone
Concen: 1.56 ug/l
RT: 3.85 min Scan# 704
Delta R.T. 0.03 min
Lab File: VN027286.D
Acq: 18 Sep 2015 6:23

Tgt Ion: 43 Resp: 6508
Ion Ratio Lower Upper
43 100
58 42.6 25.4 38.0#





#25

1,1-Dichloroethane

Concen: 0.34 ug/l

RT: 5.92 min Scan# 1348

Delta R.T. -0.01 min

Lab File: VN027286.D

Acq: 18 Sep 2015 6:23

Instrument :

MSVOA_N

ClientSampleId :

MW-10

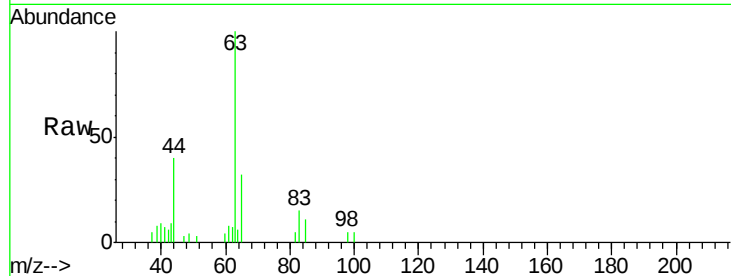
Tgt Ion: 63 Resp: 8191

Ion Ratio Lower Upper

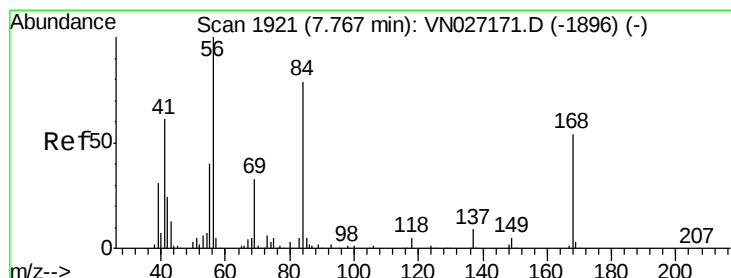
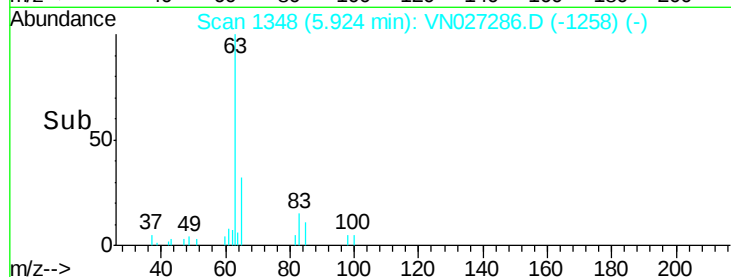
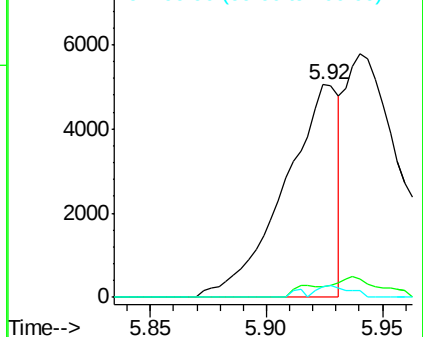
63 100

98 5.0 2.8 8.3

100 4.9 1.7 5.0



Abundance Ion 62.90 (62.60 to 63.60): VN0
Ion 97.90 (97.60 to 98.60): VN0
Ion 99.90 (99.60 to 100.60): VN0



#32

Cyclohexane

Concen: 0.28 ug/l

RT: 7.75 min Scan# 1916

Delta R.T. -0.02 min

Lab File: VN027286.D

Acq: 18 Sep 2015 6:23

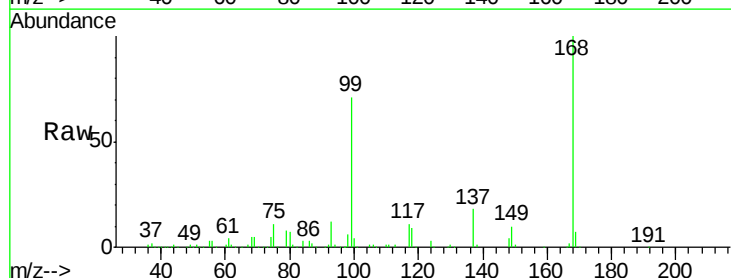
Tgt Ion: 56 Resp: 25599

Ion Ratio Lower Upper

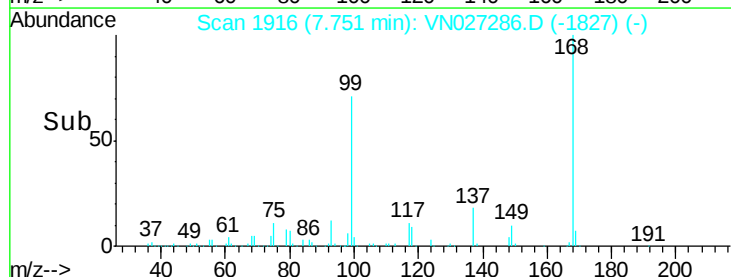
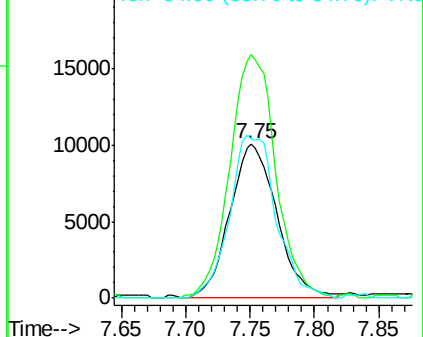
56 100

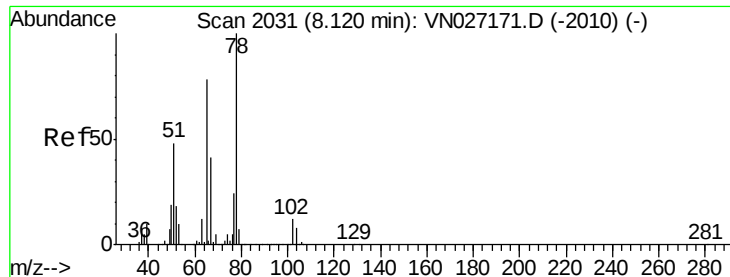
69 155.8 23.0 34.4#

84 103.3 57.8 86.8#



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

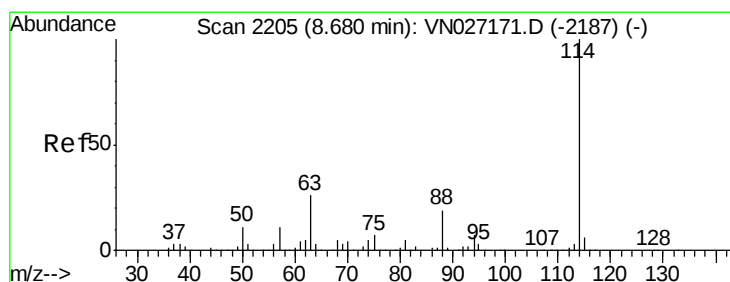
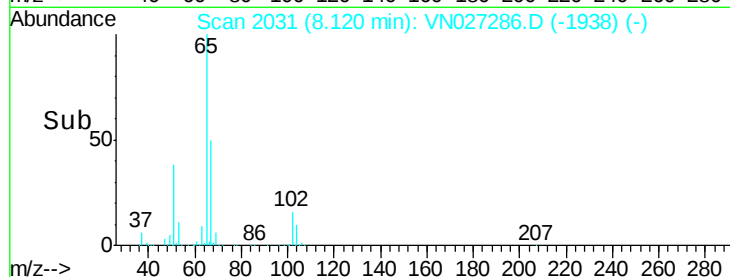
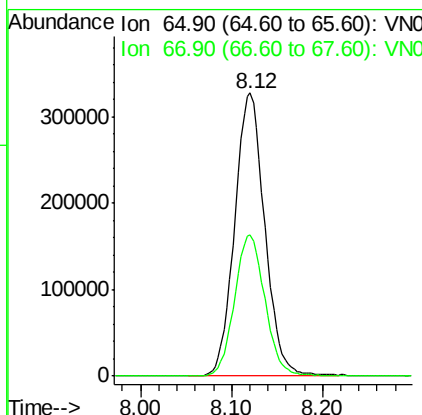
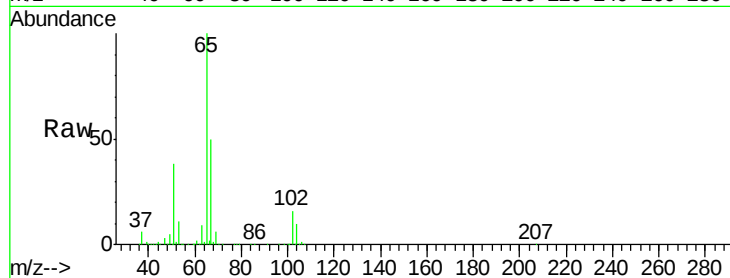




#34
 1,2-Dichloroethane-d4
 Concen: 48.45 ug/l
 RT: 8.12 min Scan# 2031
 Delta R.T. 0.00 min
 Lab File: VN027286.D
 Acq: 18 Sep 2015 6:23

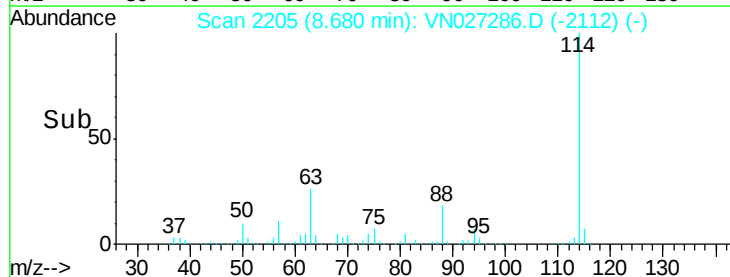
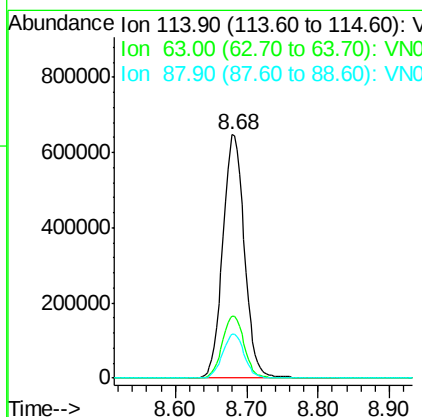
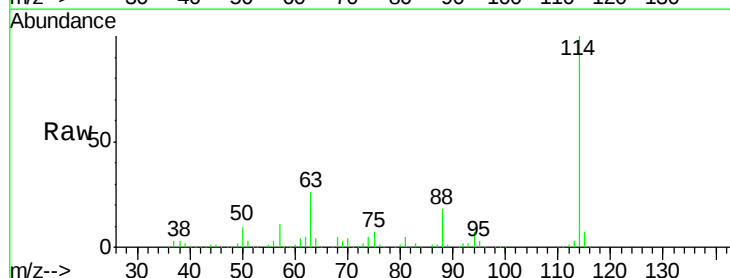
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 ClientSampled :
 MW-10

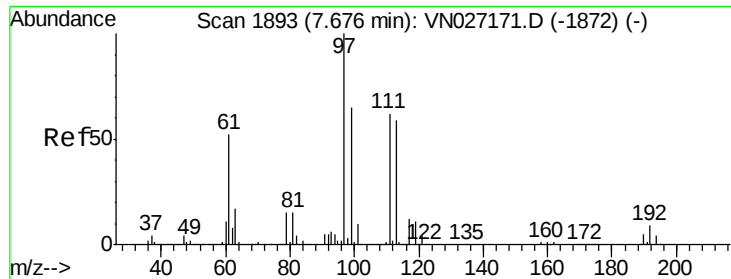
Tgt Ion: 65 Resp: 751456
 Ion Ratio Lower Upper
 65 100
 67 50.4 0.0 110.6



#35
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 8.68 min Scan# 2205
 Delta R.T. 0.00 min
 Lab File: VN027286.D
 Acq: 18 Sep 2015 6:23

Tgt Ion: 114 Resp: 1363313
 Ion Ratio Lower Upper
 114 100
 63 25.6 0.0 48.8
 88 18.2 0.0 32.2

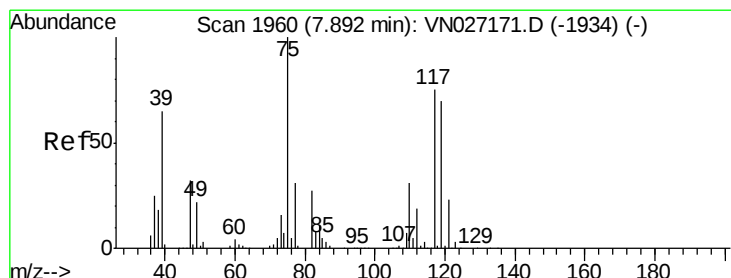
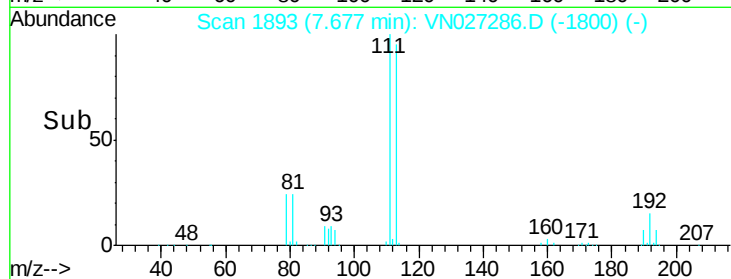
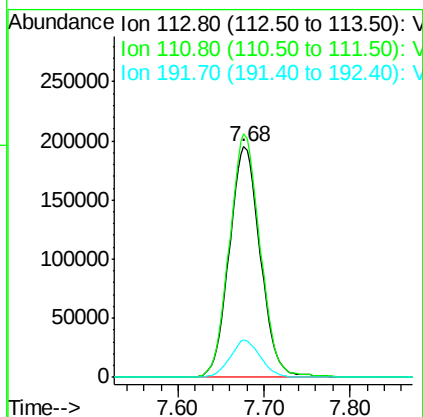
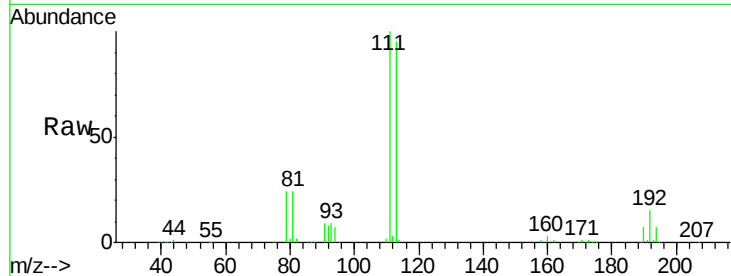




#36
 Dibromofluoromethane
 Concen: 51.73 ug/l
 RT: 7.68 min Scan# 1893
 Delta R.T. 0.00 min
 Lab File: VN027286.D
 Acq: 18 Sep 2015 6:23

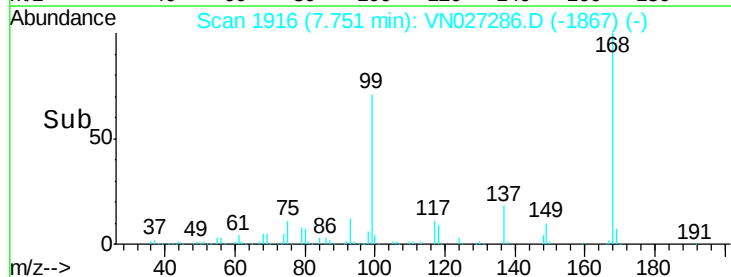
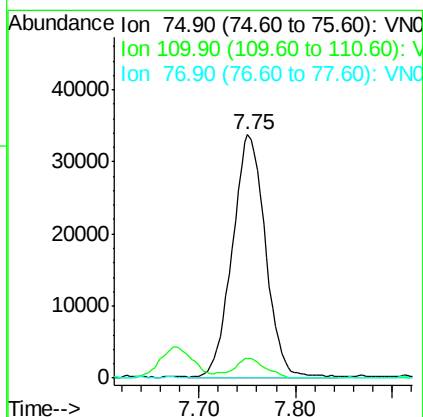
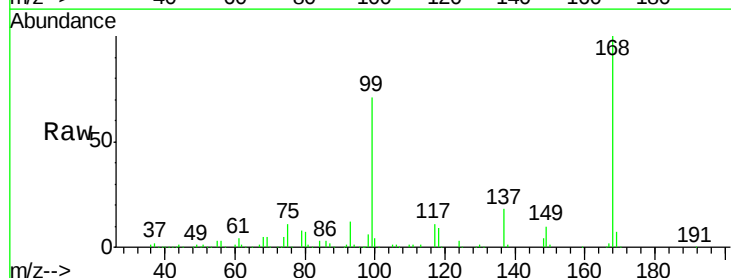
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 MW-10

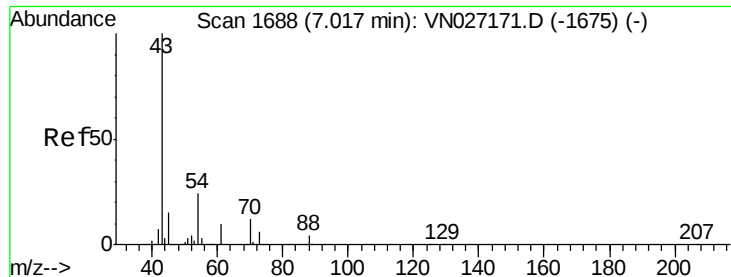
Tgt Ion: 113 Resp: 488880
 Ion Ratio Lower Upper
 113 100
 111 105.2 83.0 124.4
 192 15.9 14.1 21.1



#37
 1,1-Dichloropropene
 Concen: 5.06 ug/l
 RT: 7.75 min Scan# 1916
 Delta R.T. -0.14 min
 Lab File: VN027286.D
 Acq: 18 Sep 2015 6:23

Tgt Ion: 75 Resp: 80820
 Ion Ratio Lower Upper
 75 100
 110 7.1 15.9 47.7#
 77 0.0 24.9 37.3#

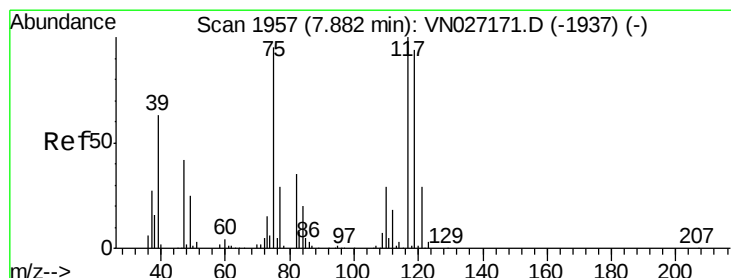
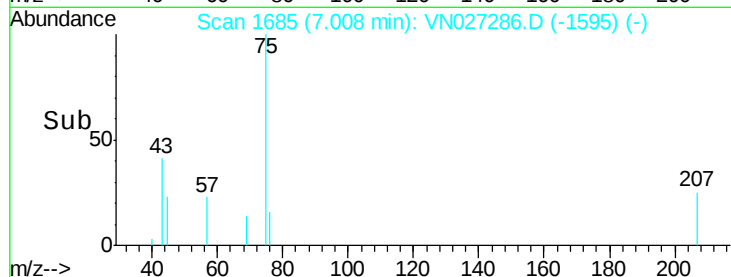
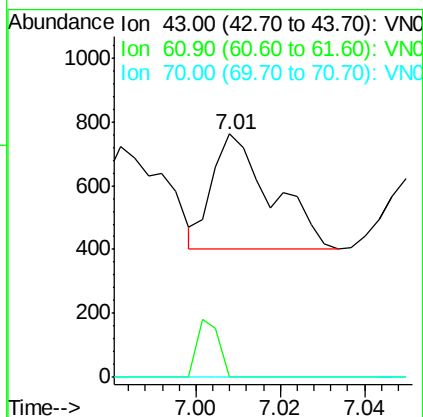
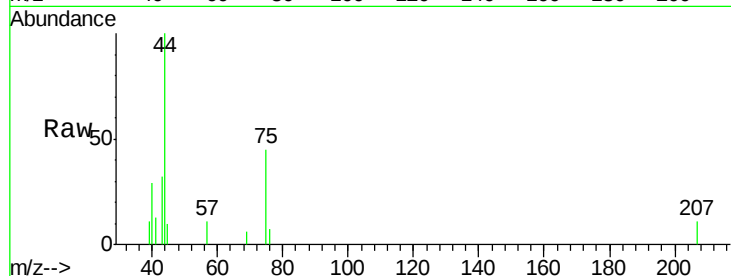




#38
Ethyl Acetate
Concen: Below Cal
RT: 7.01 min Scan# 1685
Delta R.T. -0.01 min
Lab File: VN027286.D
Acq: 18 Sep 2015 6:23

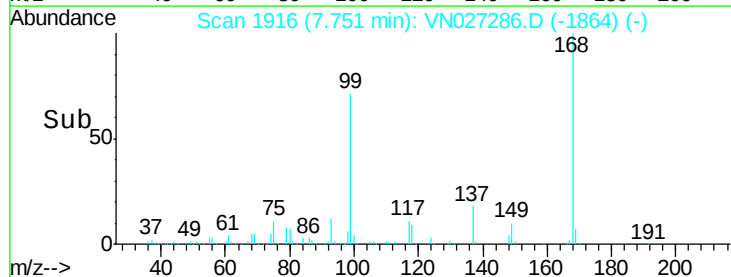
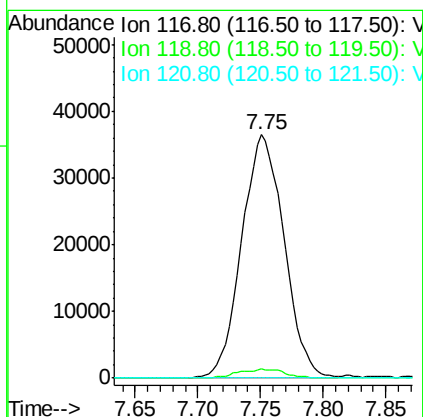
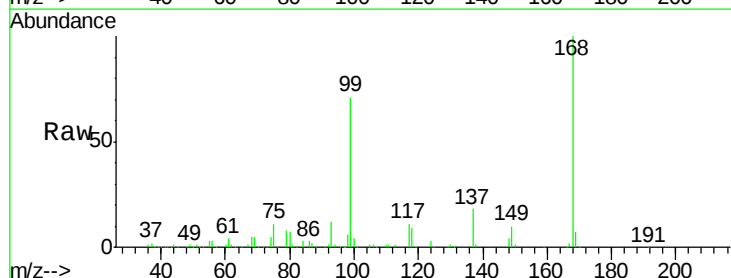
Instrument :
MSVOA_N
ClientSampleId :
MW-10

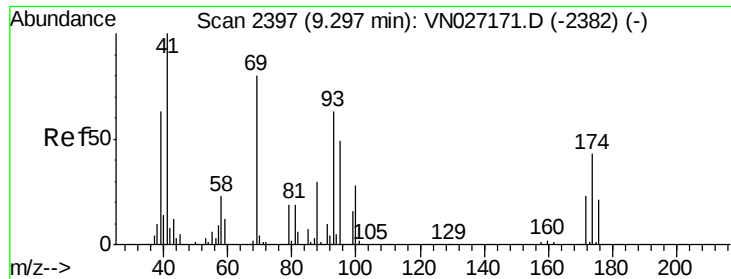
Tgt Ion: 43 Resp: 350
Ion Ratio Lower Upper
43 100
61 18.3 10.2 15.4#
70 0.0 7.4 11.0#



#39
Carbon Tetrachloride
Concen: 5.71 ug/l
RT: 7.75 min Scan# 1916
Delta R.T. -0.13 min
Lab File: VN027286.D
Acq: 18 Sep 2015 6:23

Tgt Ion: 117 Resp: 85745
Ion Ratio Lower Upper
117 100
119 3.8 75.3 112.9#
121 0.0 23.8 35.8#





#50

1,4-Dioxane

Concen: 3.92 ug/l

RT: 9.32 min Scan# 2404

Delta R.T. 0.02 min

Lab File: VN027286.D

Acq: 18 Sep 2015 6:23

Instrument :

MSVOA_N

ClientSampleId :

MW-10

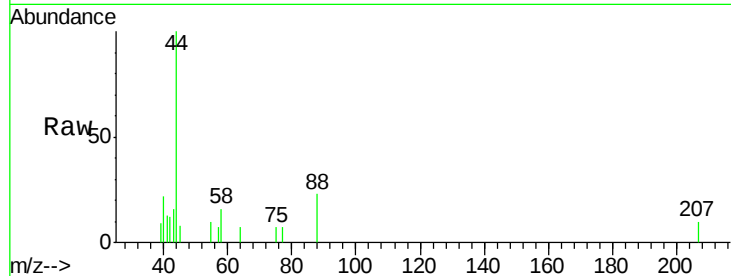
Tgt Ion: 88 Resp: 584

Ion Ratio Lower Upper

88 100

43 13.2 27.6 41.4#

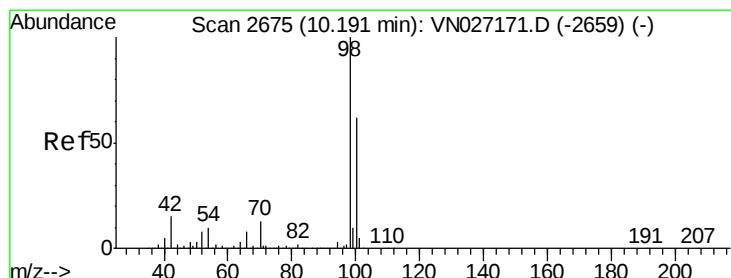
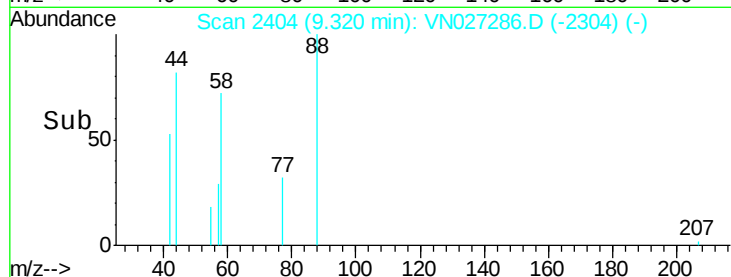
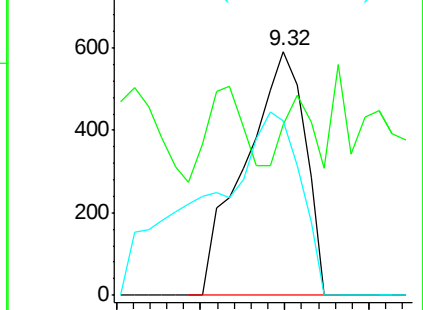
58 121.1 63.1 94.7#



Abundance Ion 88.00 (87.70 to 88.70): VN0

Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#51

Toluene-d8

Concen: 53.81 ug/l

RT: 10.19 min Scan# 2675

Delta R.T. 0.00 min

Lab File: VN027286.D

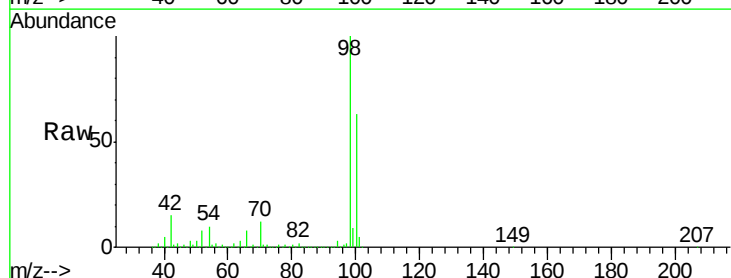
Acq: 18 Sep 2015 6:23

Tgt Ion: 98 Resp: 1991109

Ion Ratio Lower Upper

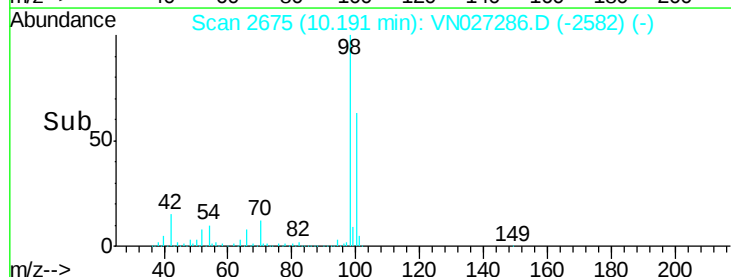
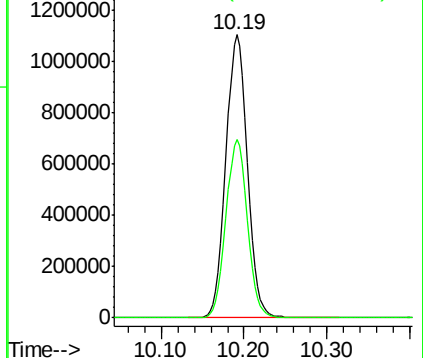
98 100

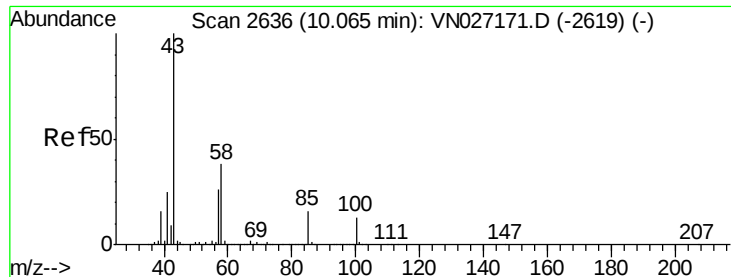
100 63.0 50.5 75.7



Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN0

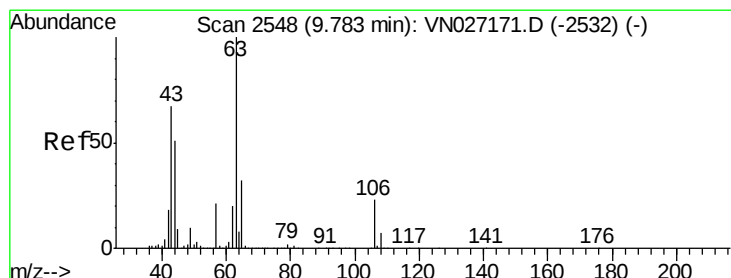
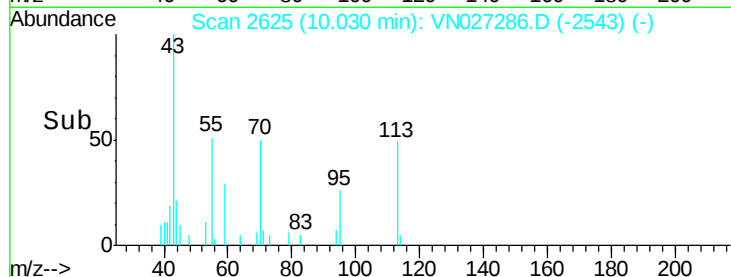
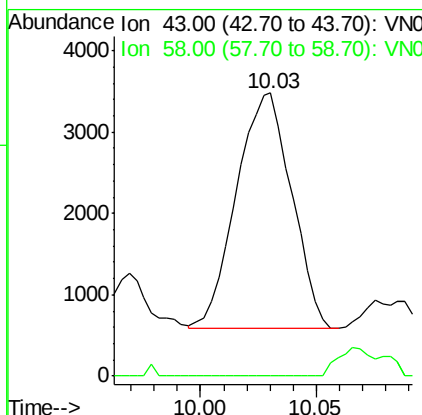
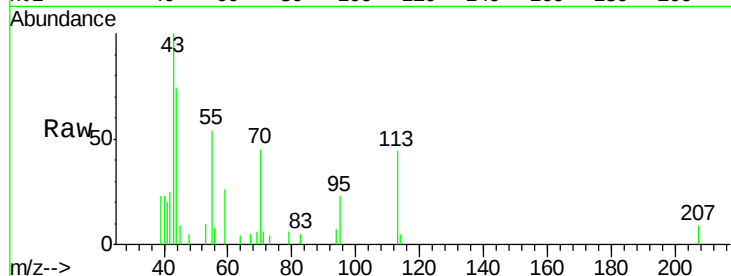




#52
 4-Methyl-2-Pentanone
 Concen: 0.36 ug/l
 RT: 10.03 min Scan# 2625
 Delta R.T. -0.04 min
 Lab File: VN027286.D
 Acq: 18 Sep 2015 6:23

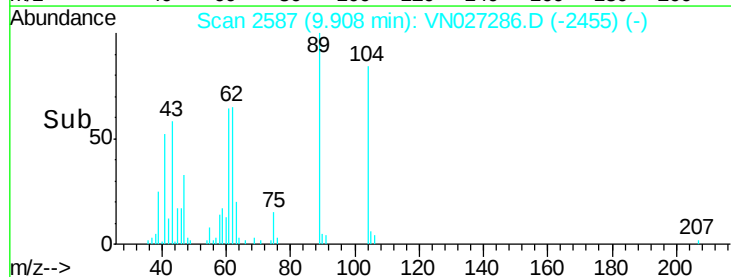
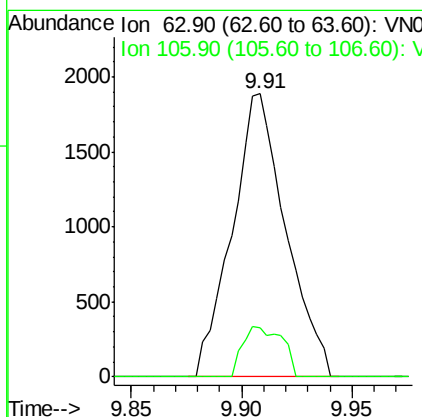
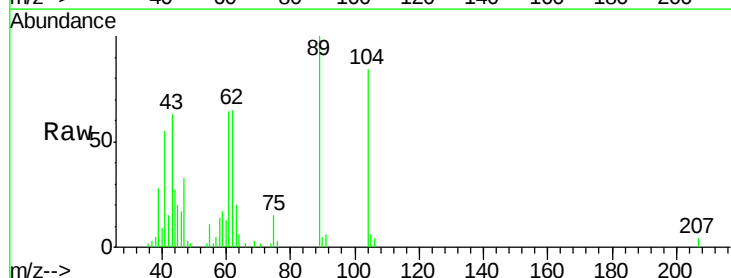
Instrument :
 MSVOA_N
 ClientSampled :
 MW-10

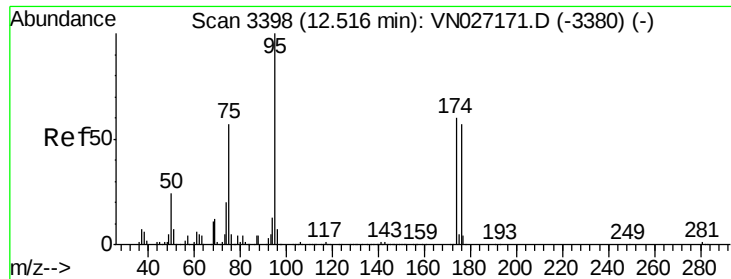
Tgt Ion: 43 Resp: 4806
 Ion Ratio Lower Upper
 43 100
 58 0.0 29.8 44.8#



#59
 2-Chloroethyl Vinyl ether
 Concen: 0.40 ug/l
 RT: 9.91 min Scan# 2587
 Delta R.T. 0.13 min
 Lab File: VN027286.D
 Acq: 18 Sep 2015 6:23

Tgt Ion: 63 Resp: 3182
 Ion Ratio Lower Upper
 63 100
 106 13.0 17.7 26.5#

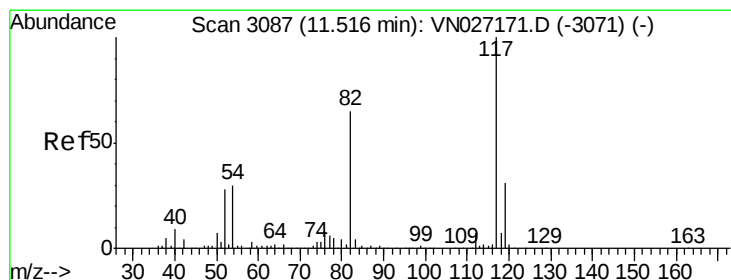
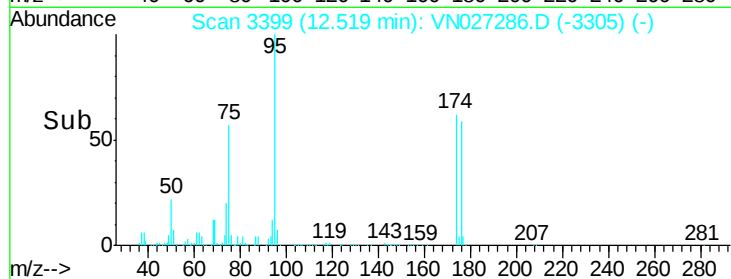
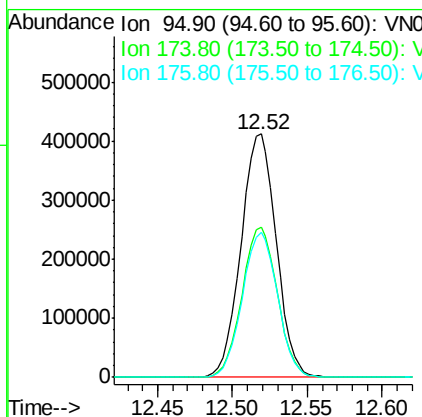
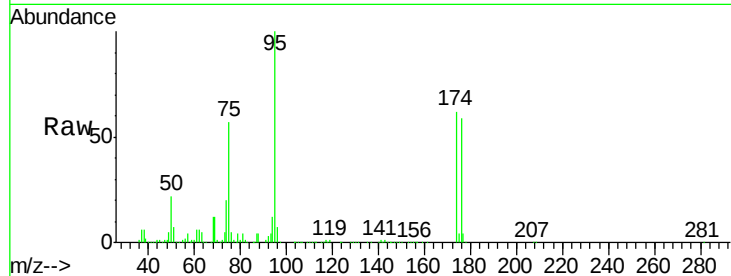




#63
4-Bromofluorobenzene
Concen: 51.53 ug/l
RT: 12.52 min Scan# 3399
Delta R.T. 0.00 min
Lab File: VN027286.D
Acq: 18 Sep 2015 6:23

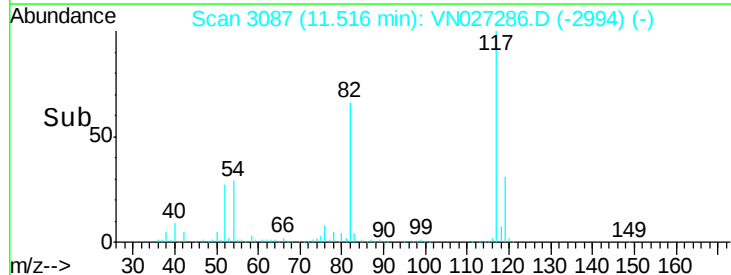
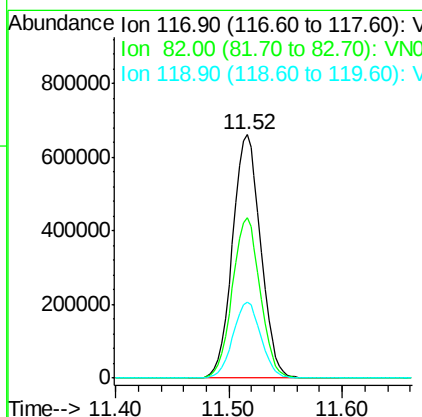
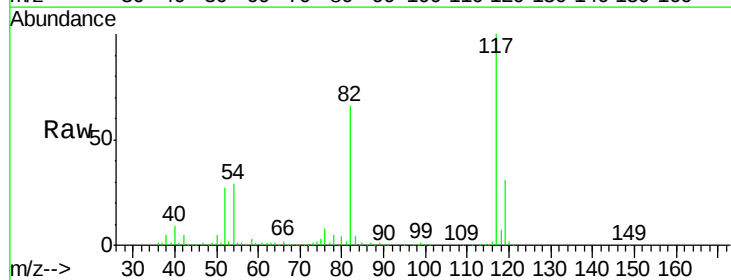
Instrument :
MSVOA_N
ClientSampled :
MW-10

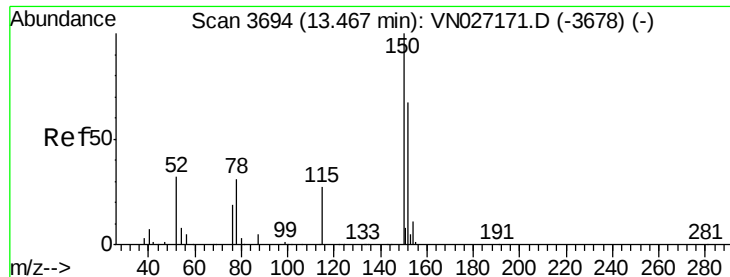
Tgt Ion: 95 Resp: 676735
Ion Ratio Lower Upper
95 100
174 61.9 0.0 137.0
176 59.5 0.0 130.8



#64
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 11.52 min Scan# 3087
Delta R.T. 0.00 min
Lab File: VN027286.D
Acq: 18 Sep 2015 6:23

Tgt Ion: 117 Resp: 1143932
Ion Ratio Lower Upper
117 100
82 65.8 49.6 74.4
119 31.2 24.6 36.8

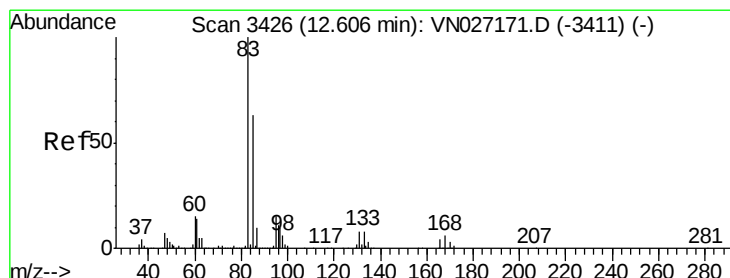
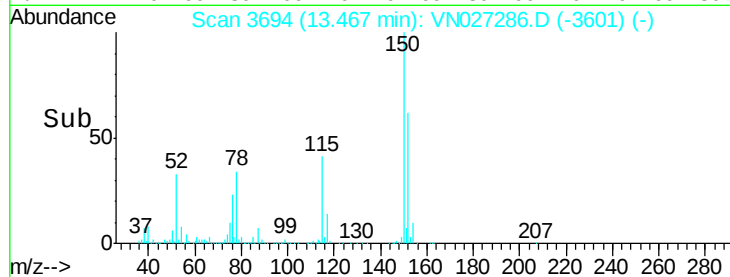
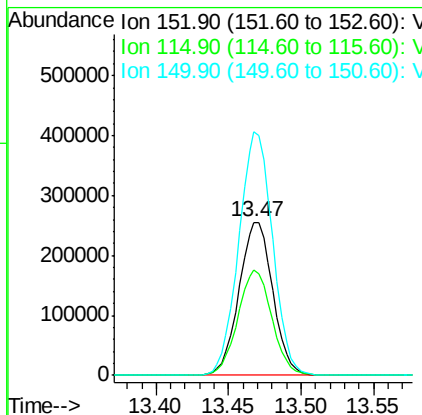
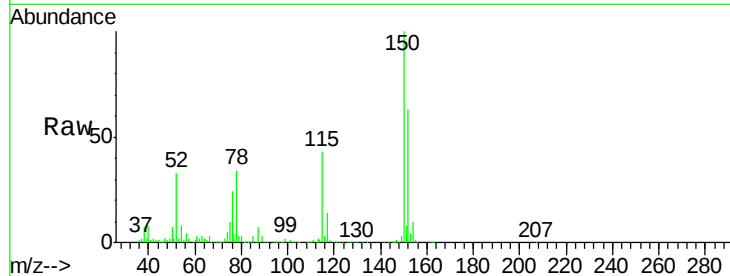




#73
 1,4-Dichlorobenzene-d4
 Concen: 50.00 ug/l
 RT: 13.47 min Scan# 3694
 Delta R.T. 0.00 min
 Lab File: VN027286.D
 Acq: 18 Sep 2015 6:23

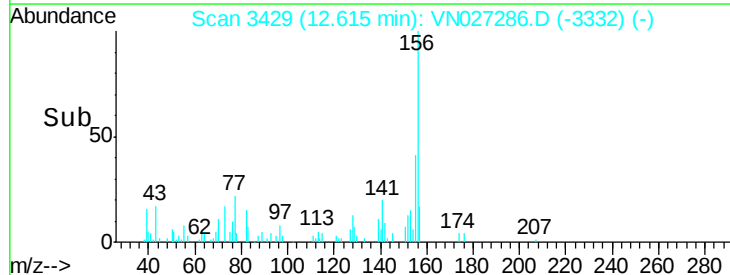
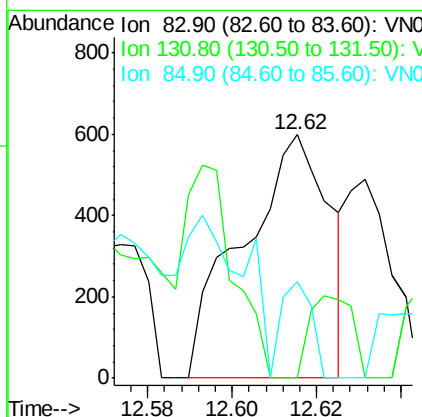
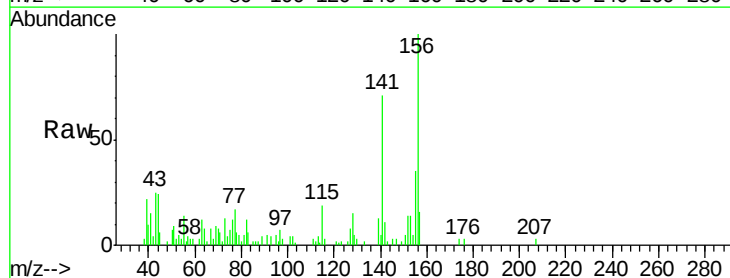
Instrument :
 MSVOA_N
 ClientSampled :
 MW-10

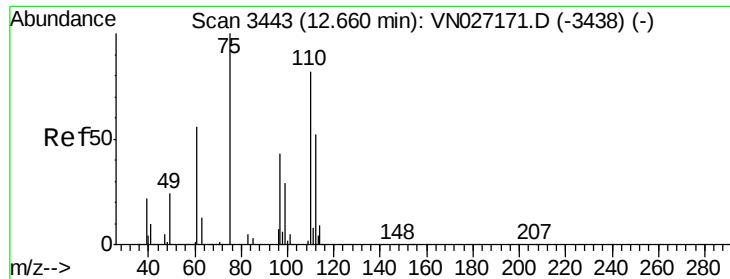
Tgt Ion:152 Resp: 413123
 Ion Ratio Lower Upper
 152 100
 115 68.9 30.8 92.3
 150 159.2 0.0 345.0



#76
 1,1,2,2-Tetrachloroethane
 Concen: Below Cal
 RT: 12.62 min Scan# 3429
 Delta R.T. 0.01 min
 Lab File: VN027286.D
 Acq: 18 Sep 2015 6:23

Tgt Ion: 83 Resp: 852
 Ion Ratio Lower Upper
 83 100
 131 0.0 4.1 12.3#
 85 0.0 31.9 95.7#





#77

1,2,3-Trichloropropane

Concen: 31.16 ug/l

RT: 12.52 min Scan# 3398

Delta R.T. -0.14 min

Lab File: VN027286.D

Acq: 18 Sep 2015 6:23

Instrument :

MSVOA_N

ClientSampled :

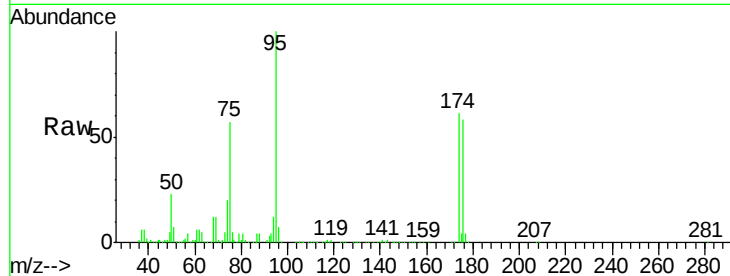
MW-10

Tgt Ion: 75 Resp: 389104

Ion Ratio Lower Upper

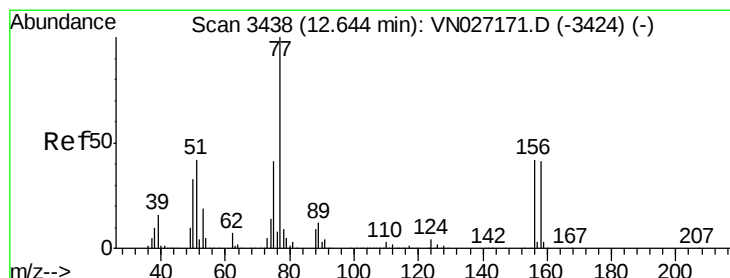
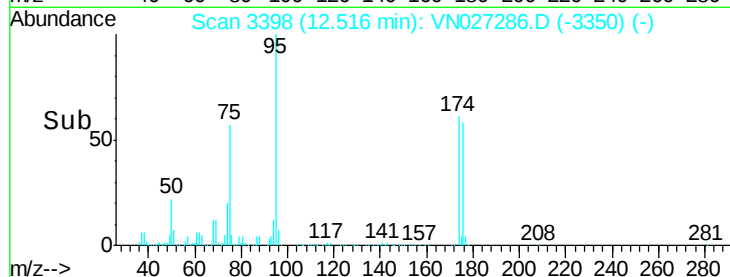
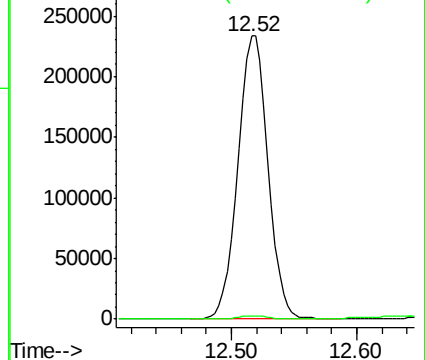
75 100

77 1.2 103.1 309.3#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0



#78

Bromobenzene

Concen: 6.62 ug/l

RT: 12.65 min Scan# 3440

Delta R.T. 0.01 min

Lab File: VN027286.D

Acq: 18 Sep 2015 6:23

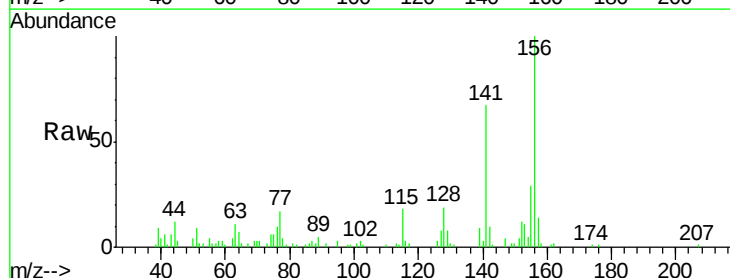
Tgt Ion: 156 Resp: 59062

Ion Ratio Lower Upper

156 100

77 17.5 127.3 381.9#

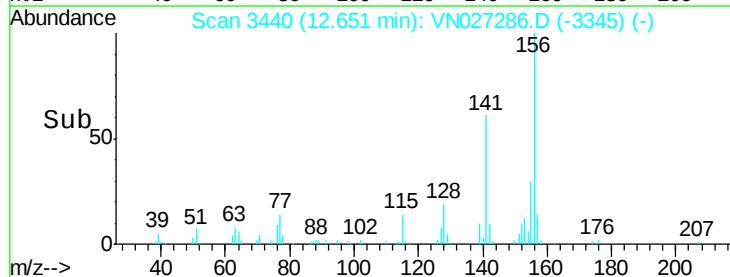
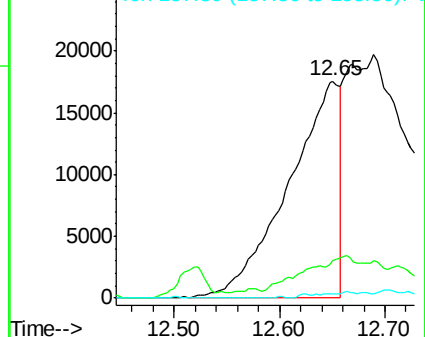
158 0.2 48.0 144.2#

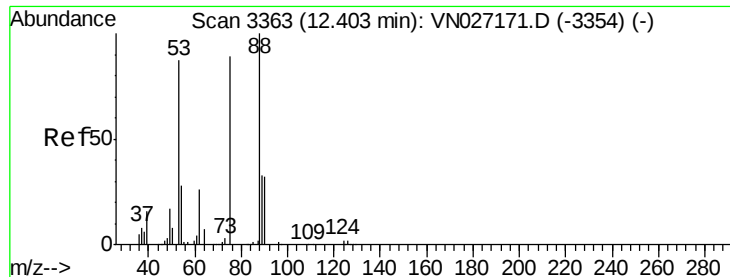


Abundance Ion 155.80 (155.50 to 156.50): V

Ion 77.00 (76.70 to 77.70): VN0

Ion 157.80 (157.50 to 158.50): V





#82

trans-1,4-Dichloro-2-butene

Concen: 76.55 ug/l

RT: 12.52 min Scan# 3398

Delta R.T. 0.11 min

Lab File: VN027286.D

Acq: 18 Sep 2015 6:23

Instrument :

MSVOA_N

ClientSampleId :

MW-10

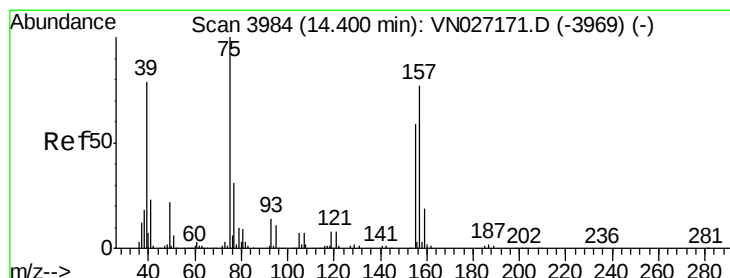
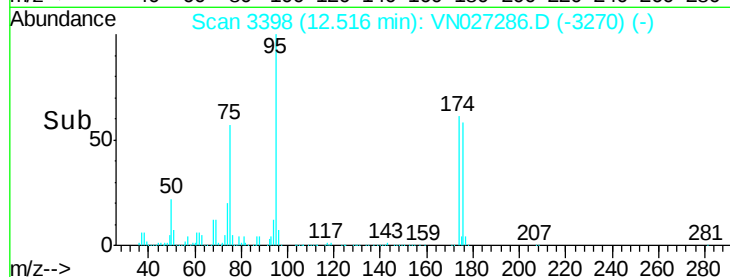
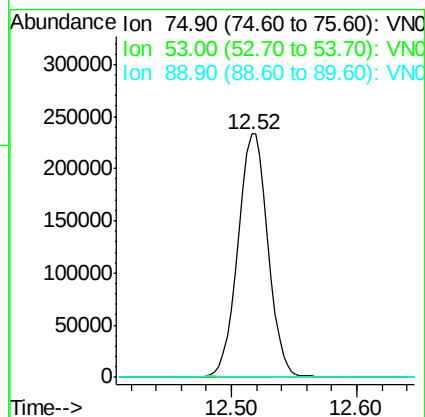
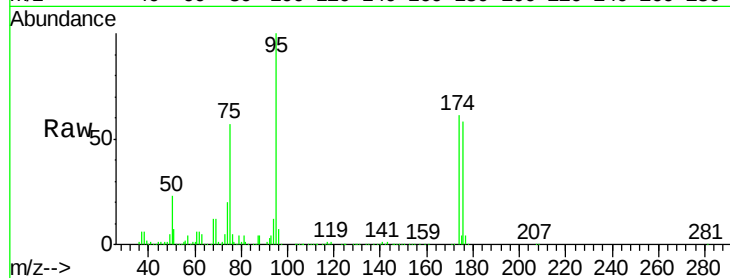
Tgt Ion: 75 Resp: 389104

Ion Ratio Lower Upper

75 100

53 0.0 92.9 139.3#

89 0.0 34.2 51.4#



#93

1,2-Dibromo-3-Chloropropane

Concen: Below Cal

RT: 14.40 min Scan# 3984

Delta R.T. 0.00 min

Lab File: VN027286.D

Acq: 18 Sep 2015 6:23

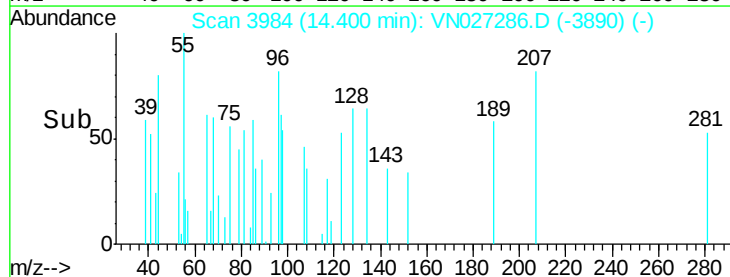
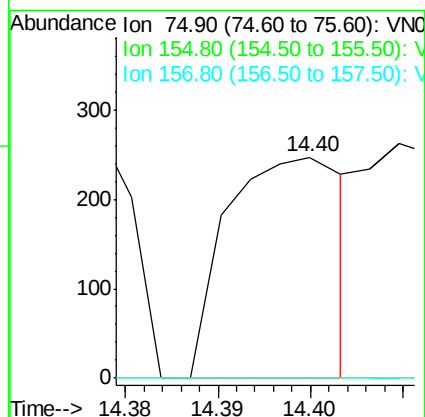
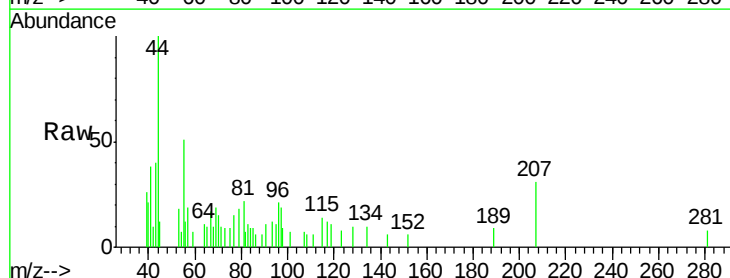
Tgt Ion: 75 Resp: 216

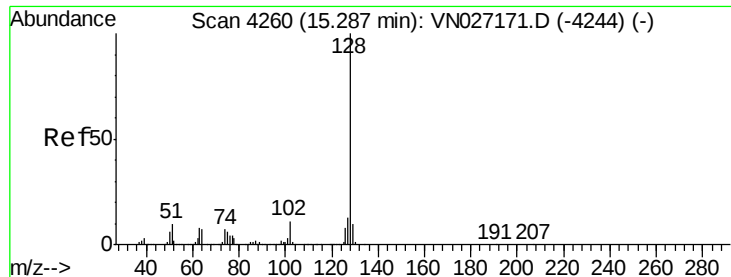
Ion Ratio Lower Upper

75 100

155 0.0 35.6 106.9#

157 0.0 44.6 133.8#





#96

Naphthalene

Concen: 0.89 ug/l

RT: 15.29 min Scan# 4261

Delta R.T. 0.00 min

Lab File: VN027286.D

Acq: 18 Sep 2015 6:23

Instrument :

MSVOA_N

ClientSampleId :

MW-10

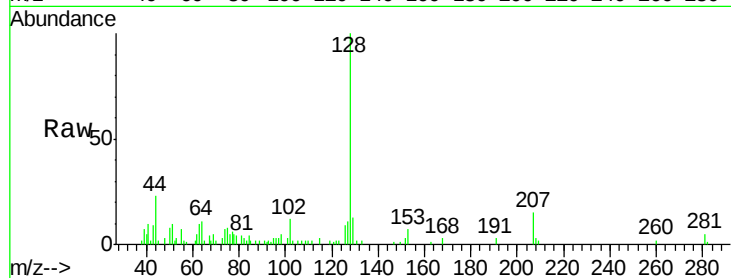
Tgt Ion:128 Resp: 21344

Ion Ratio Lower Upper

128 100

127 13.2 10.4 15.6

129 11.2 8.6 12.8



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

