

Data Path : W:\HPCHEM1\MSVOA_N\DATA\VN091715\
 Data File : VN027287.D
 Acq On : 18 Sep 2015 6:51
 Operator : MD\FY
 Sample : G3706-10
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 46 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 DUP-01

Quant Time: Sep 18 08:11:12 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	749120	50.00	ug/l	0.00
35) 1,4-Difluorobenzene	8.68	114	1336068	50.00	ug/l	0.00
64) Chlorobenzene-d5	11.52	117	1134986	50.00	ug/l	0.00
73) 1,4-Dichlorobenzene-d4	13.47	152	408784	50.00	ug/l	0.00

System Monitoring Compounds

34) 1,2-Dichloroethane-d4	8.12	65	733769	47.81	ug/l	0.00
Spiked Amount	50.000		Recovery	=	95.62%	
36) Dibromofluoromethane	7.68	113	480406	51.87	ug/l	0.00
Spiked Amount	50.000		Recovery	=	103.74%	
51) Toluene-d8	10.19	98	1965894	54.21	ug/l	0.00
Spiked Amount	50.000		Recovery	=	108.42%	
63) 4-Bromofluorobenzene	12.52	95	661428	51.39	ug/l	0.00
Spiked Amount	50.000		Recovery	=	102.78%	

Target Compounds

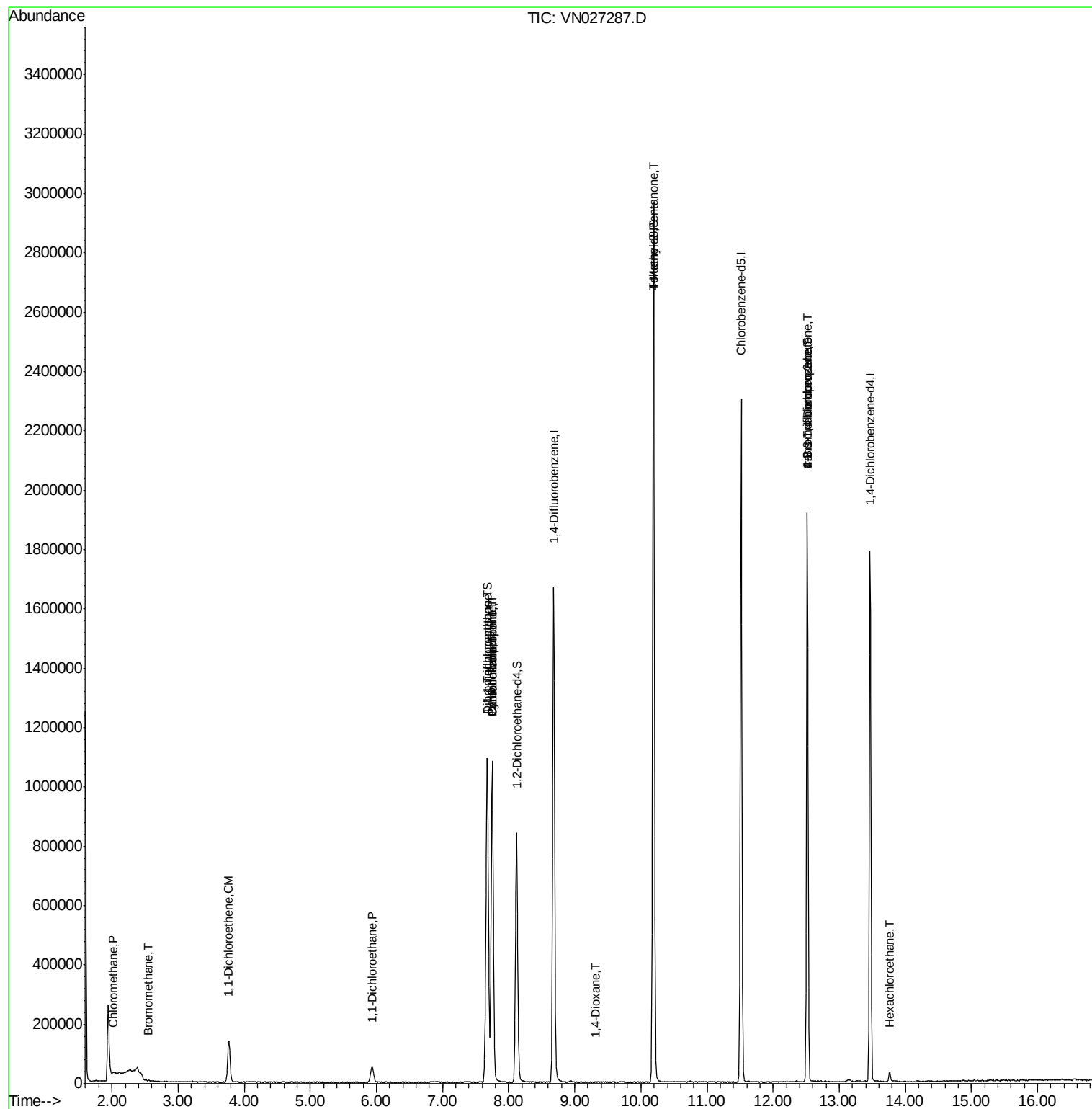
						Qvalue
4) Chloromethane	2.01	50	1407	1.25	ug/l	# 52
6) Bromomethane	2.54	94	456	1.69	ug/l	94
13) 1,1-Dichloroethene	3.77	96	68508	7.12	ug/l	88
25) 1,1-Dichloroethane	5.93	63	81458	3.44	ug/l	98
32) Cyclohexane	7.75	56	23741	0.21	ug/l	# 1
33) 1,1,1-Trichloroethane	7.67	97	377160	19.77	ug/l	97
37) 1,1-Dichloropropene	7.75	75	80430	5.14	ug/l	# 50
38) Ethyl Acetate	6.99	43	134	Below	Cal	# 71
39) Carbon Tetrachloride	7.75	117	85351	5.80	ug/l	# 16
50) 1,4-Dioxane	9.30	88	61	0.42	ug/l	# 1
52) 4-Methyl-2-Pentanone	10.19	43	10799	0.82	ug/l	# 1
76) 1,1,2,2-Tetrachloroethane	12.56	83	96	Below	Cal	# 25
77) 1,2,3-Trichloropropane	12.52	75	382391	30.95	ug/l	# 1
82) trans-1,4-Dichloro-2-buten	12.52	75	382391	76.03	ug/l	# 4
91) Hexachloroethane	13.76	117	1939	0.26	ug/l	# 15
93) 1,2-Dibromo-3-Chloropropan	14.44	75	66	Below	Cal	# 9

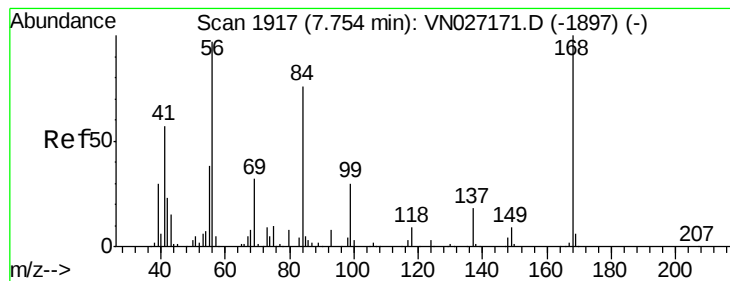
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 7.75 min Scan# 1916

Delta R.T. -0.00 min

Lab File: VN027287.D

Acq: 18 Sep 2015 6:51

Instrument :

MSVOA_N

ClientSampled :

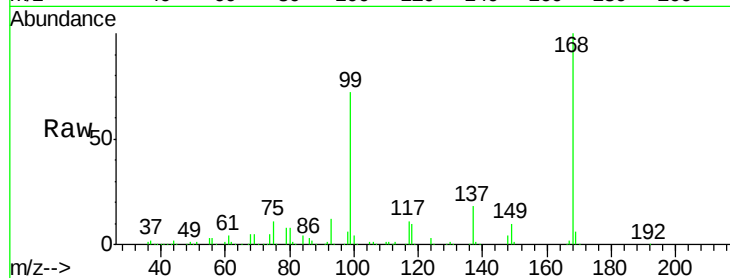
DUP-01

Tgt Ion:168 Resp: 749120

Ion Ratio Lower Upper

168 100

99 71.7 50.4 75.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.75

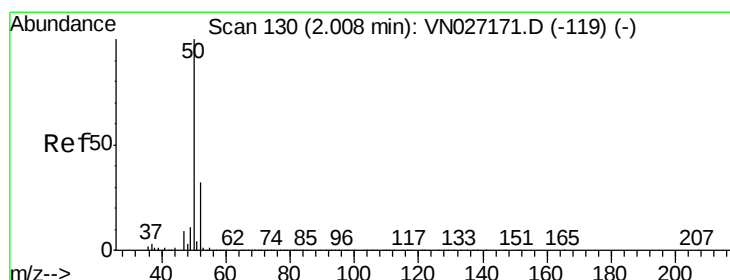
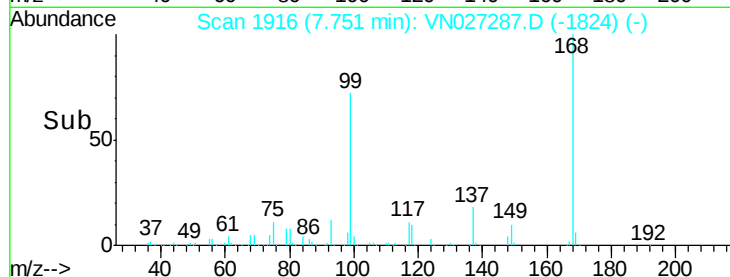
300000

200000

100000

0

Time-->



#4

Chloromethane

Concen: 1.25 ug/l

RT: 2.01 min Scan# 130

Delta R.T. 0.00 min

Lab File: VN027287.D

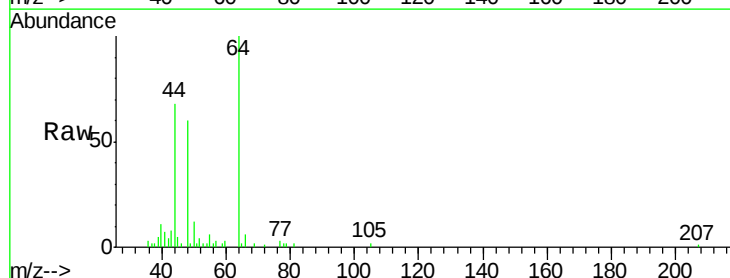
Acq: 18 Sep 2015 6:51

Tgt Ion: 50 Resp: 1407

Ion Ratio Lower Upper

50 100

52 59.1 25.9 38.9#



Abundance Ion 49.90 (49.60 to 50.60): VNO

Ion 51.90 (51.60 to 52.60): VNO

2.01

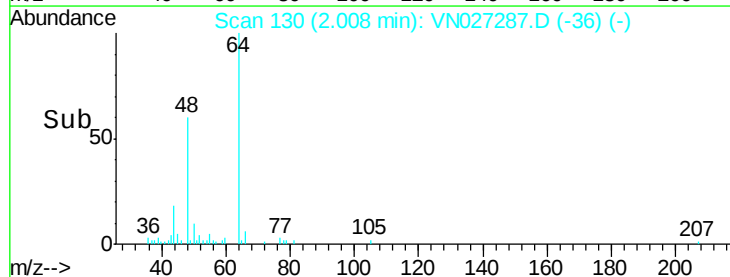
1500

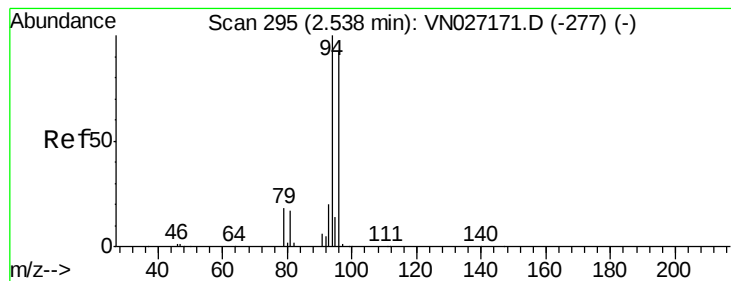
1000

500

0

Time-->





#6

Bromomethane

Concen: 1.69 ug/l

RT: 2.54 min Scan# 297

Delta R.T. 0.01 min

Lab File: VN027287.D

Acq: 18 Sep 2015 6:51

Instrument :

MSVOA_N

ClientSampled :

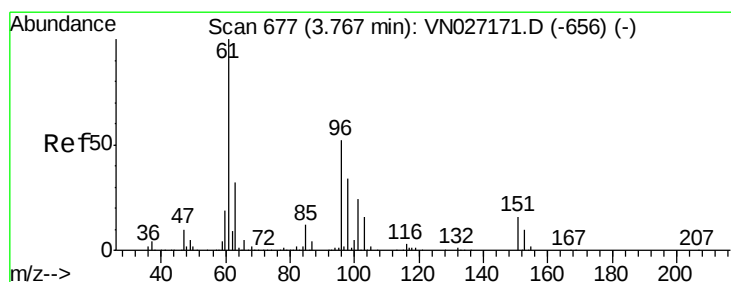
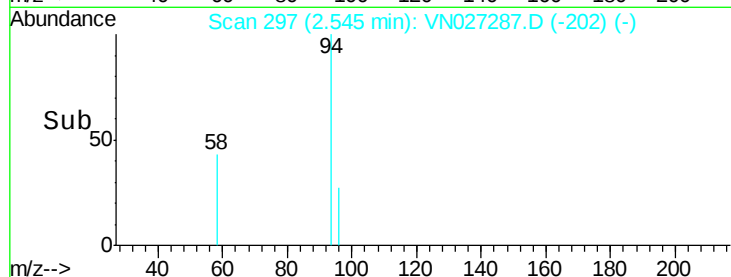
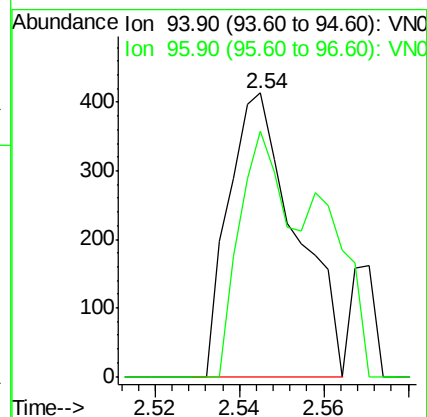
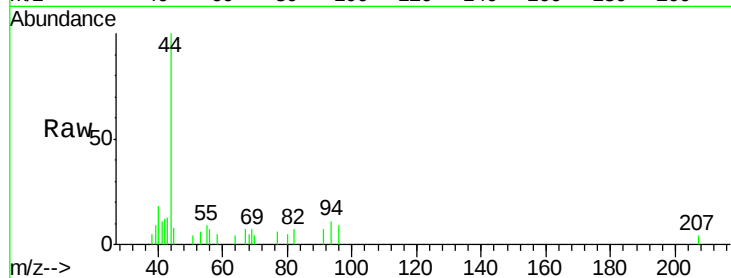
DUP-01

Tgt Ion: 94 Resp: 456

Ion Ratio Lower Upper

94 100

96 86.4 73.4 110.2



#13

1,1-Dichloroethene

Concen: 7.12 ug/l

RT: 3.77 min Scan# 677

Delta R.T. 0.00 min

Lab File: VN027287.D

Acq: 18 Sep 2015 6:51

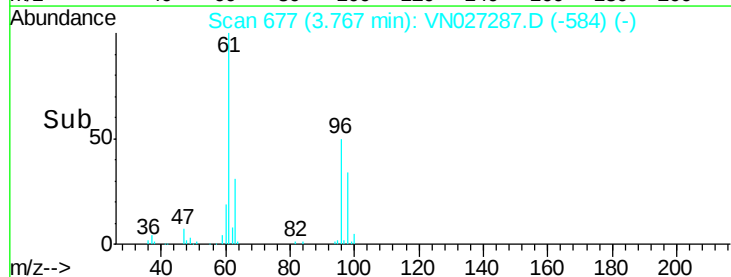
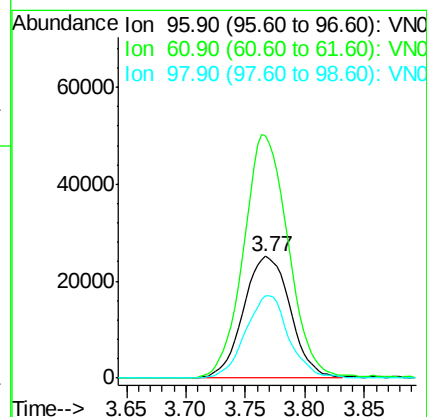
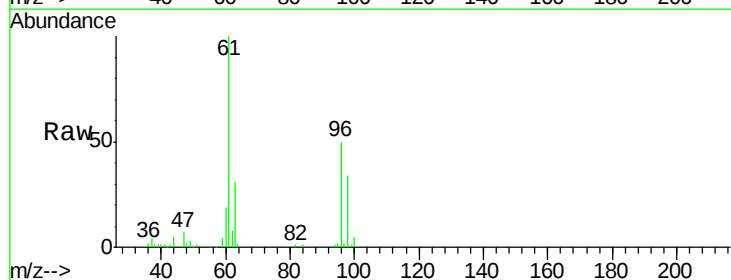
Tgt Ion: 96 Resp: 68508

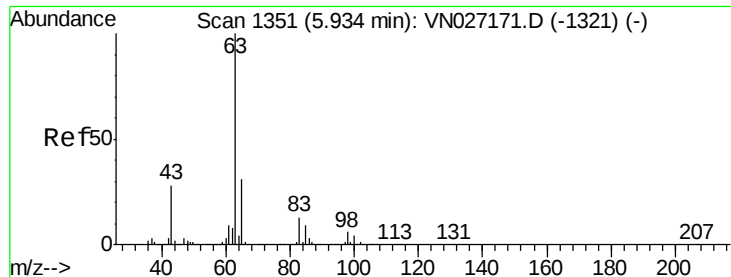
Ion Ratio Lower Upper

96 100

61 199.5 143.8 215.8

98 67.4 50.3 75.5





#25

1,1-Dichloroethane

Concen: 3.44 ug/l

RT: 5.93 min Scan# 1351

Delta R.T. 0.00 min

Lab File: VN027287.D

Acq: 18 Sep 2015 6:51

Instrument :

MSVOA_N

ClientSampleId :

DUP-01

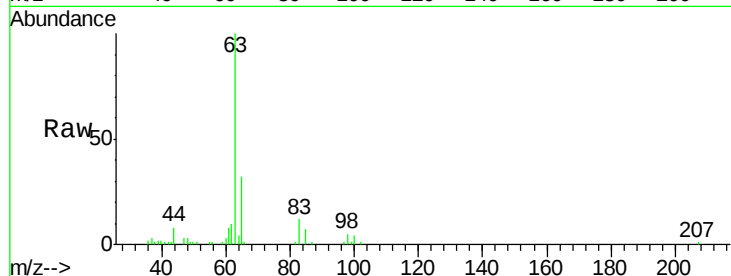
Tgt Ion: 63 Resp: 81458

Ion Ratio Lower Upper

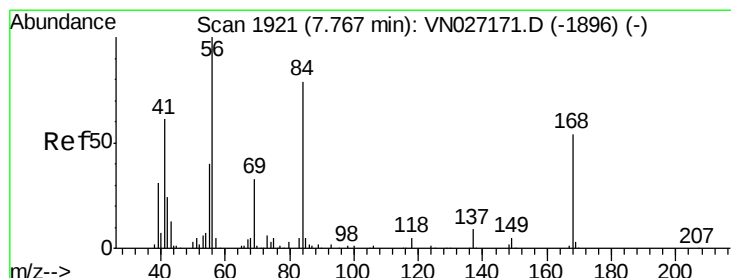
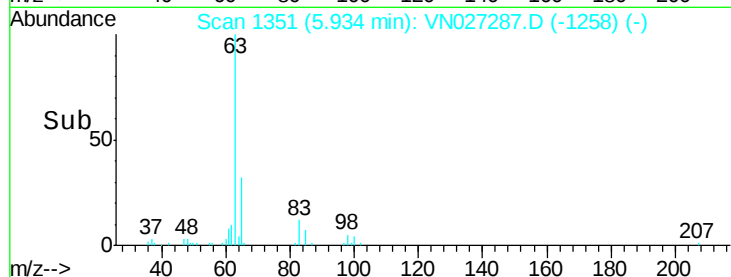
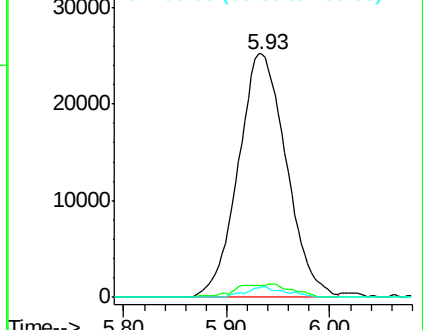
63 100

98 5.0 2.8 8.3

100 4.3 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: 0.21 ug/l

RT: 7.75 min Scan# 1916

Delta R.T. -0.02 min

Lab File: VN027287.D

Acq: 18 Sep 2015 6:51

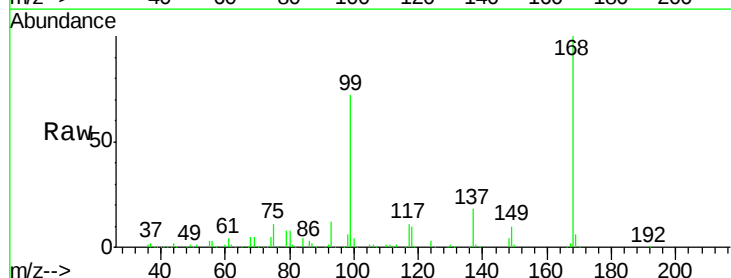
Tgt Ion: 56 Resp: 23741

Ion Ratio Lower Upper

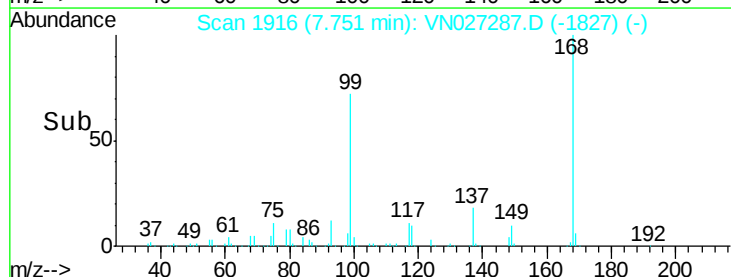
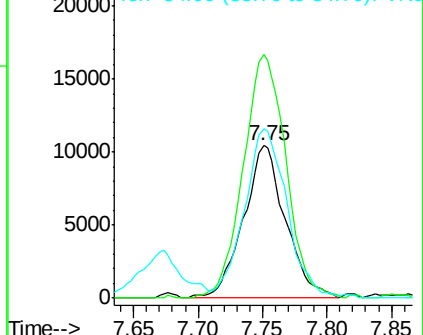
56 100

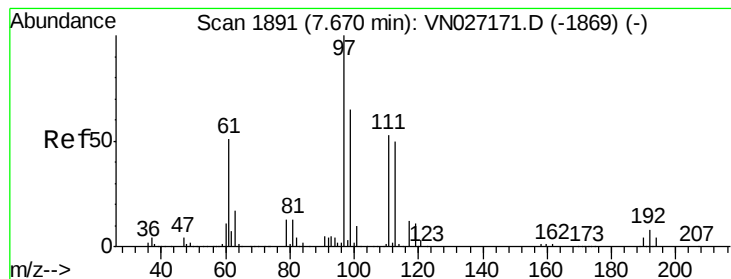
69 159.7 23.0 34.4#

84 110.0 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





#33

1,1,1-Trichloroethane

Concen: 19.77 ug/l

RT: 7.67 min Scan# 1892

Delta R.T. 0.00 min

Lab File: VN027287.D

Acq: 18 Sep 2015 6:51

Instrument :

MSVOA_N

ClientSampled :

DUP-01

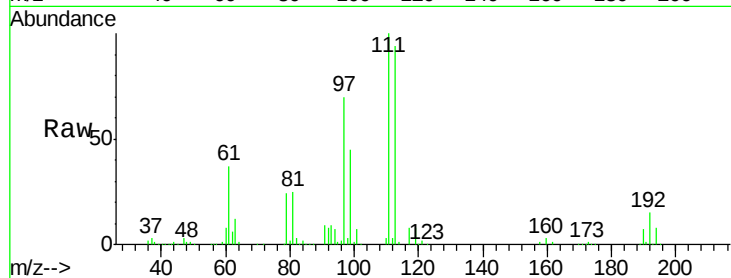
Tgt Ion: 97 Resp: 377160

Ion Ratio Lower Upper

97 100

99 62.0 50.1 75.1

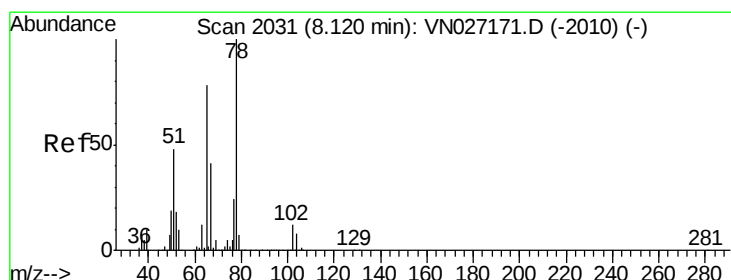
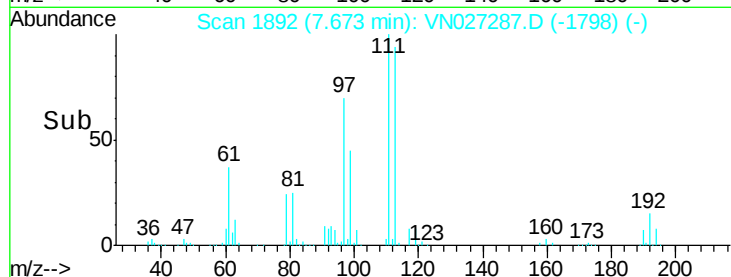
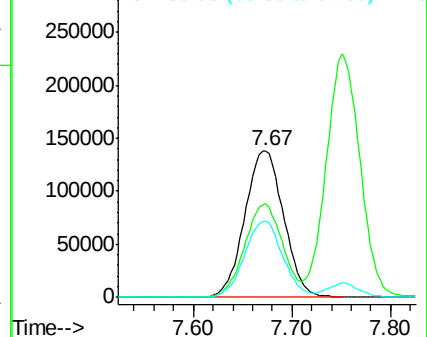
61 51.0 44.0 66.0



Abundance Ion 96.90 (96.60 to 97.60): VN0

Ion 98.90 (98.60 to 99.60): VN0

Ion 60.90 (60.60 to 61.60): VN0



#34

1,2-Dichloroethane-d4

Concen: 47.81 ug/l

RT: 8.12 min Scan# 2031

Delta R.T. 0.00 min

Lab File: VN027287.D

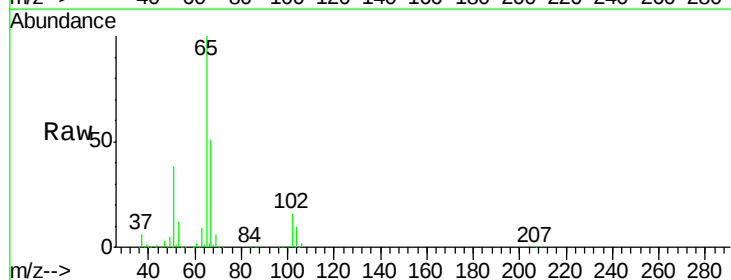
Acq: 18 Sep 2015 6:51

Tgt Ion: 65 Resp: 733769

Ion Ratio Lower Upper

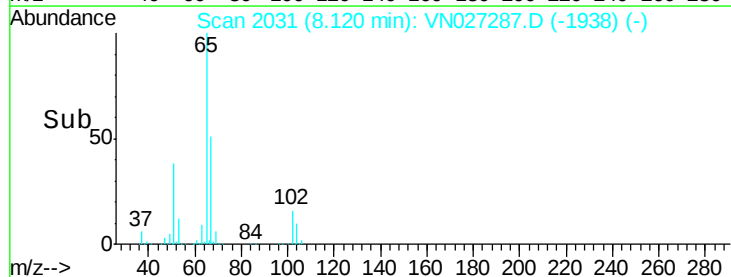
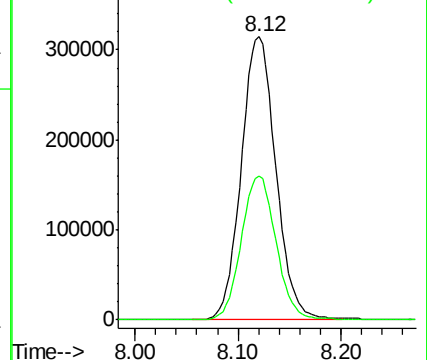
65 100

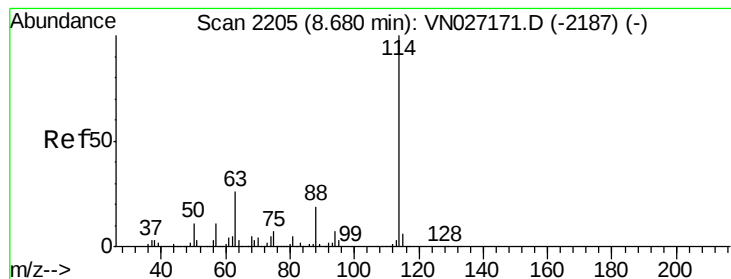
67 51.2 0.0 110.6



Abundance Ion 64.90 (64.60 to 65.60): VN0

Ion 66.90 (66.60 to 67.60): VN0





#35

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 8.68 min Scan# 2206

Delta R.T. 0.00 min

Lab File: VN027287.D

Acq: 18 Sep 2015 6:51

Instrument :

MSVOA_N

ClientSampleId :

DUP-01

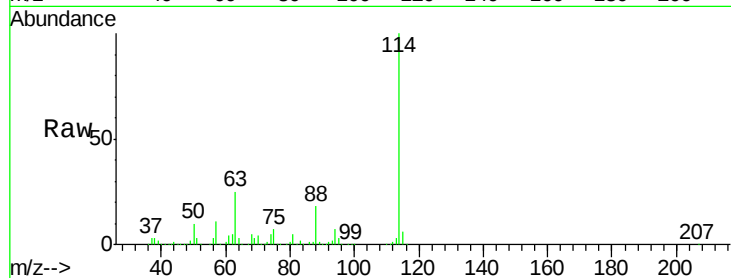
Tgt Ion:114 Resp: 1336068

Ion Ratio Lower Upper

114 100

63 25.2 0.0 48.8

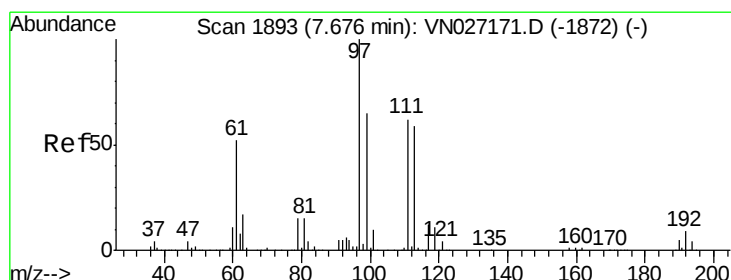
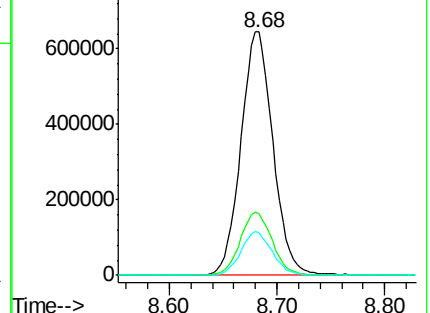
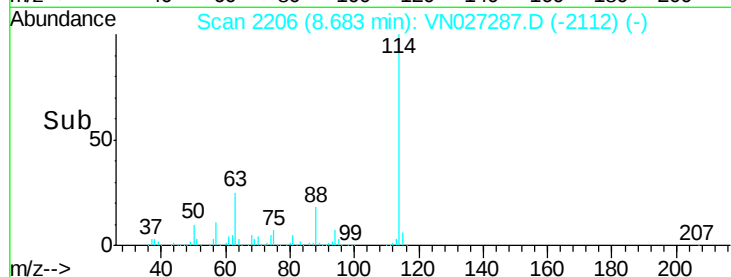
88 17.7 0.0 32.2



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



#36

Dibromofluoromethane

Concen: 51.87 ug/l

RT: 7.68 min Scan# 1893

Delta R.T. 0.00 min

Lab File: VN027287.D

Acq: 18 Sep 2015 6:51

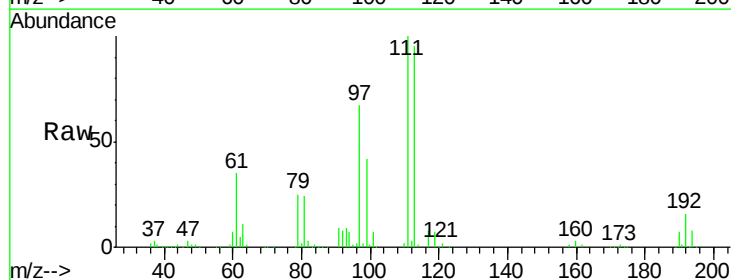
Tgt Ion:113 Resp: 480406

Ion Ratio Lower Upper

113 100

111 105.7 83.0 124.4

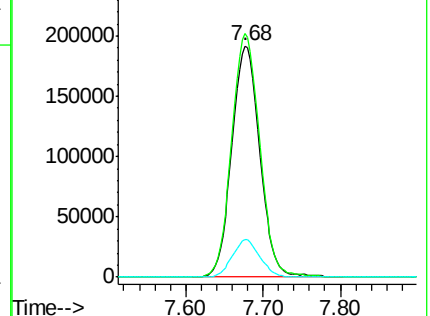
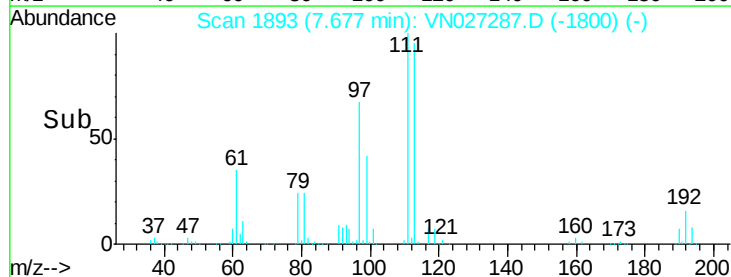
192 16.0 14.1 21.1

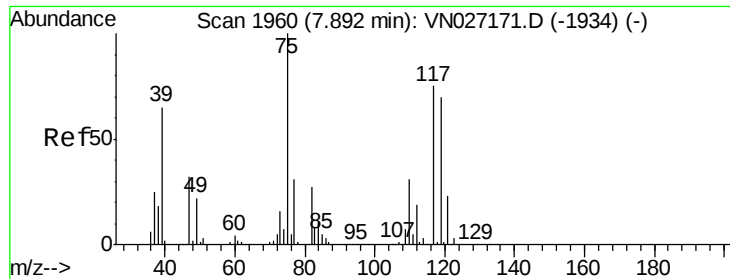


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

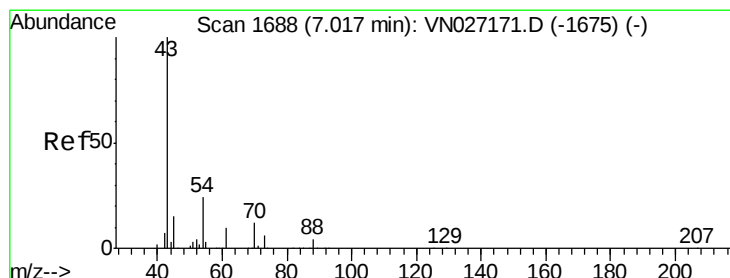
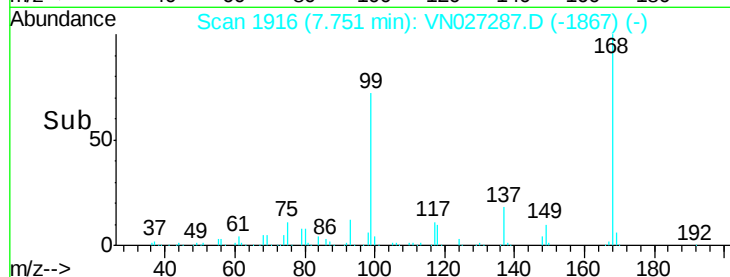
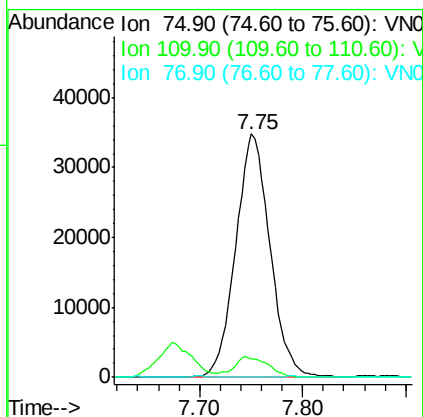
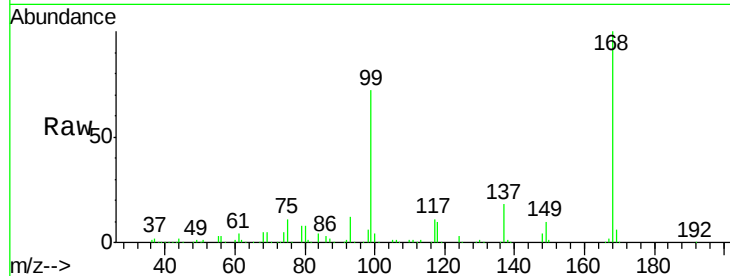




#37
 1,1-Dichloropropene
 Concen: 5.14 ug/l
 RT: 7.75 min Scan# 1916
 Delta R.T. -0.14 min
 Lab File: VN027287.D
 Acq: 18 Sep 2015 6:51

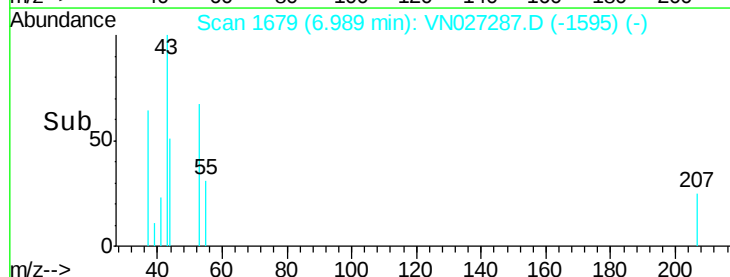
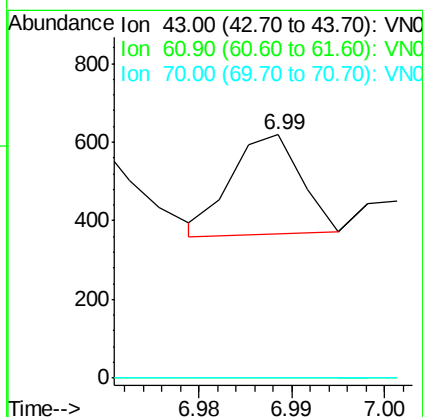
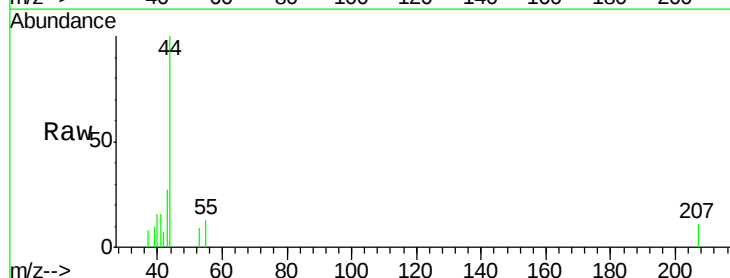
Instrument :
 MSVOA_N
 ClientSampled :
 DUP-01

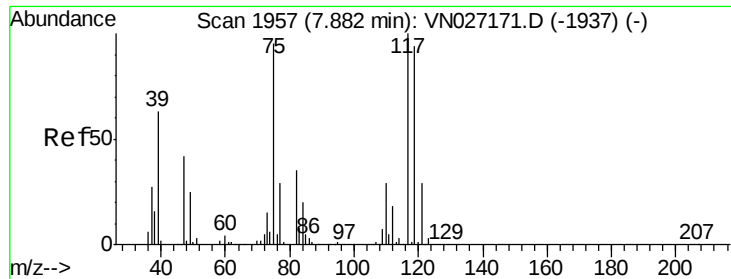
Tgt Ion: 75 Resp: 80430
 Ion Ratio Lower Upper
 75 100
 110 7.9 15.9 47.7#
 77 0.0 24.9 37.3#



#38
 Ethyl Acetate
 Concen: Below Cal
 RT: 6.99 min Scan# 1679
 Delta R.T. -0.03 min
 Lab File: VN027287.D
 Acq: 18 Sep 2015 6:51

Tgt Ion: 43 Resp: 134
 Ion Ratio Lower Upper
 43 100
 61 0.0 10.2 15.4#
 70 0.0 7.4 11.0#

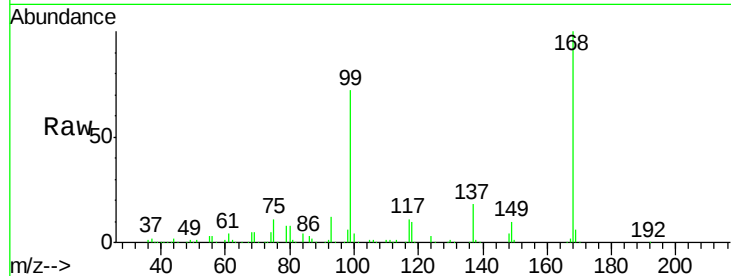




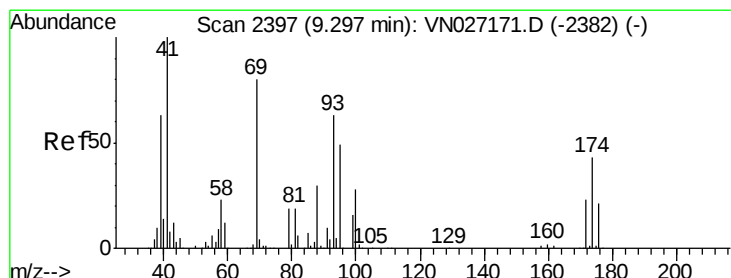
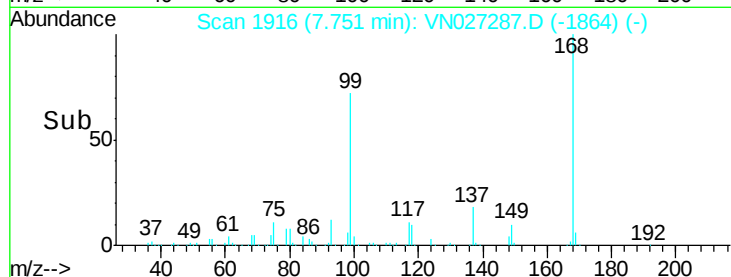
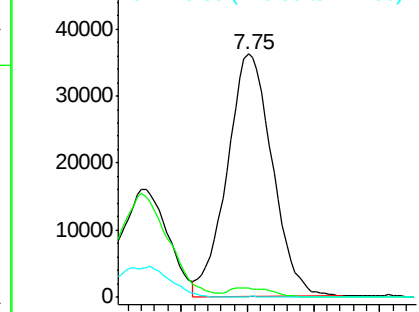
#39
Carbon Tetrachloride
Concen: 5.80 ug/l
RT: 7.75 min Scan# 1916
Delta R.T. -0.13 min
Lab File: VN027287.D
Acq: 18 Sep 2015 6:51

Instrument :
MSVOA_N
ClientSampled :
DUP-01

Tgt Ion:117 Resp: 85351
Ion Ratio Lower Upper
117 100
119 3.9 75.3 112.9#
121 0.0 23.8 35.8#

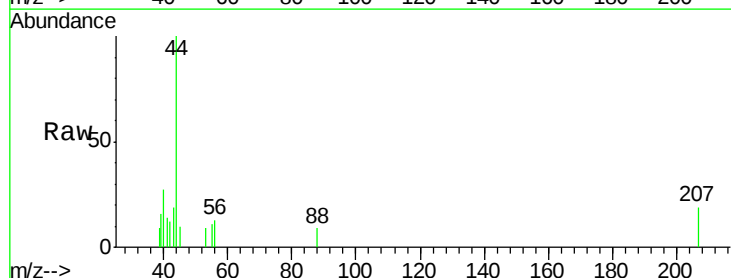


Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

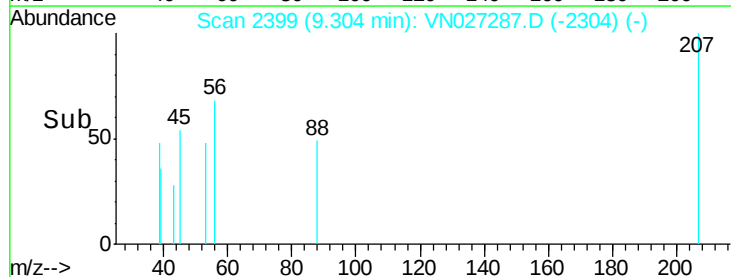
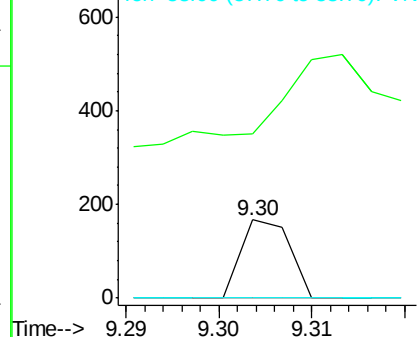


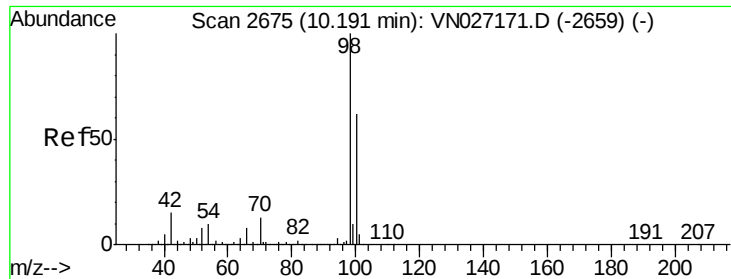
#50
1,4-Dioxane
Concen: 0.42 ug/l
RT: 9.30 min Scan# 2399
Delta R.T. 0.01 min
Lab File: VN027287.D
Acq: 18 Sep 2015 6:51

Tgt Ion: 88 Resp: 61
Ion Ratio Lower Upper
88 100
43 477.0 27.6 41.4#
58 0.0 63.1 94.7#



Abundance Ion 88.00 (87.70 to 88.70): VNO
Ion 43.00 (42.70 to 43.70): VNO
Ion 58.00 (57.70 to 58.70): VNO





#51

Toluene-d8

Concen: 54.21 ug/l

RT: 10.19 min Scan# 2675

Delta R.T. 0.00 min

Lab File: VN027287.D

Acq: 18 Sep 2015 6:51

Instrument :

MSVOA_N

ClientSampleId :

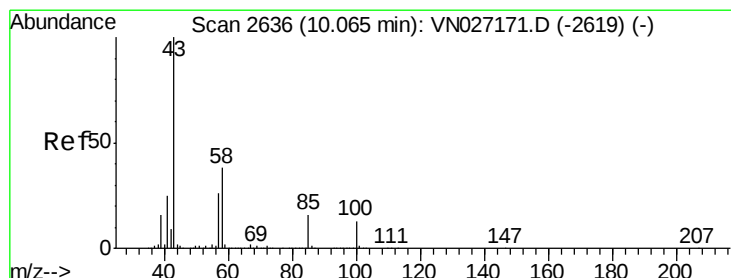
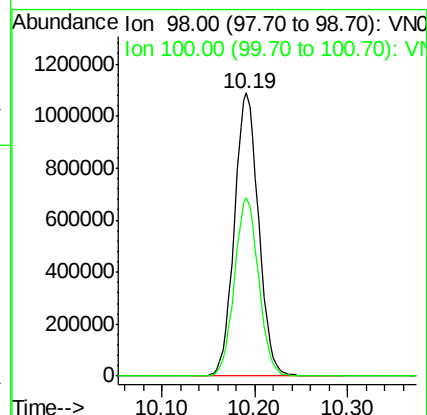
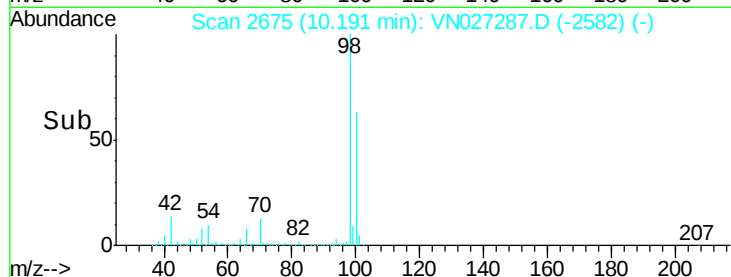
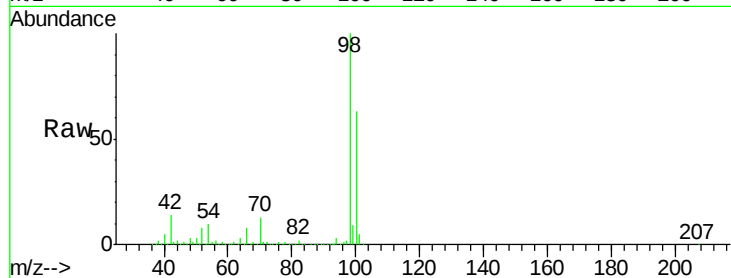
DUP-01

Tgt Ion: 98 Resp: 1965894

Ion Ratio Lower Upper

98 100

100 63.0 50.5 75.7



#52

4-Methyl-2-Pentanone

Concen: 0.82 ug/l

RT: 10.19 min Scan# 2674

Delta R.T. 0.12 min

Lab File: VN027287.D

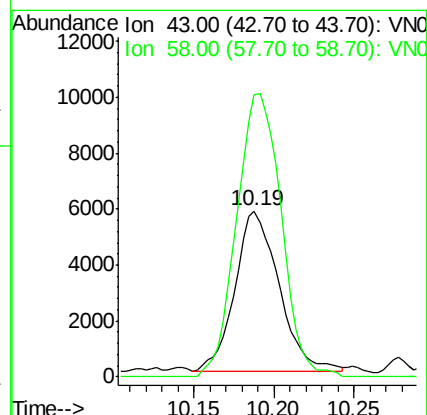
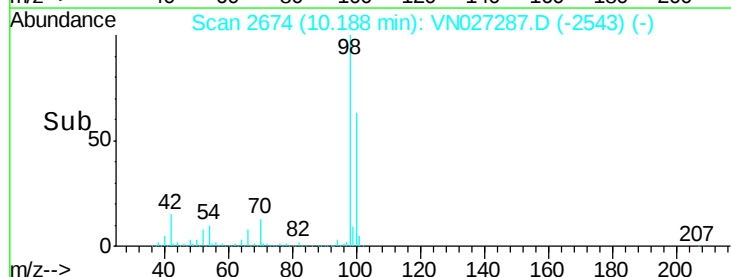
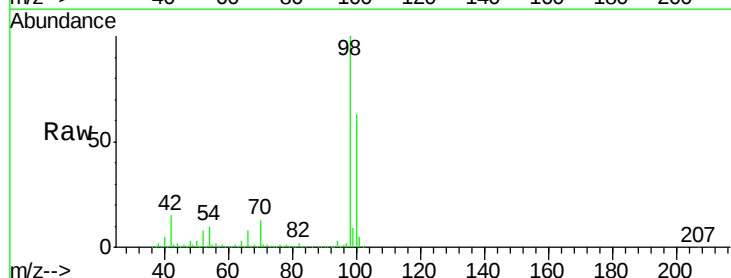
Acq: 18 Sep 2015 6:51

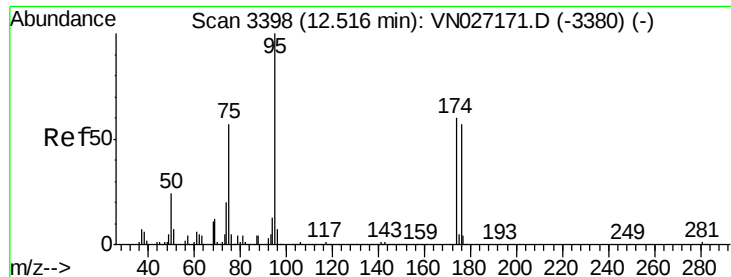
Tgt Ion: 43 Resp: 10799

Ion Ratio Lower Upper

43 100

58 178.4 29.8 44.8#

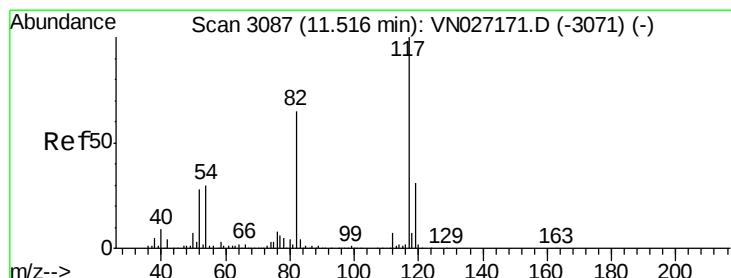
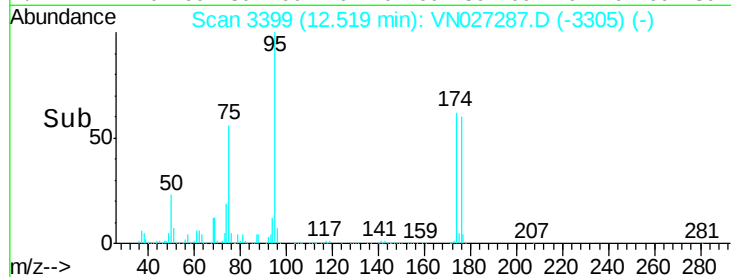
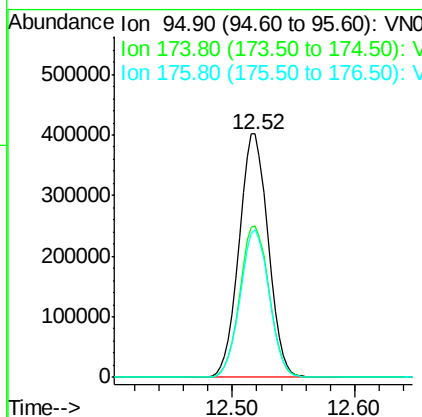
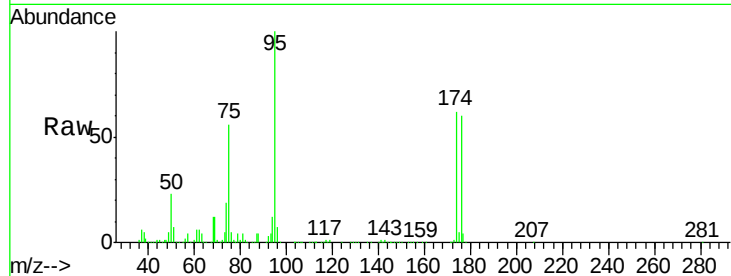




#63
 4-Bromofluorobenzene
 Concen: 51.39 ug/l
 RT: 12.52 min Scan# 3399
 Delta R.T. 0.00 min
 Lab File: VN027287.D
 Acq: 18 Sep 2015 6:51

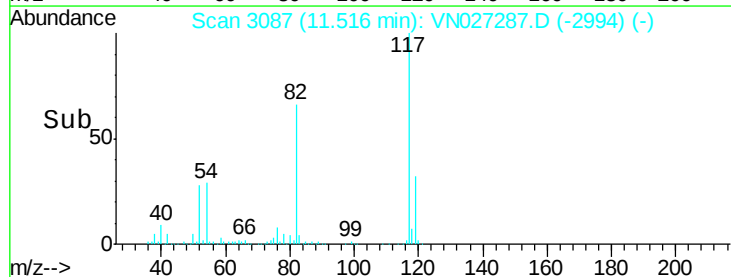
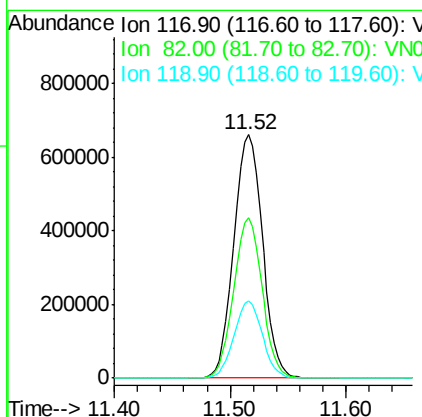
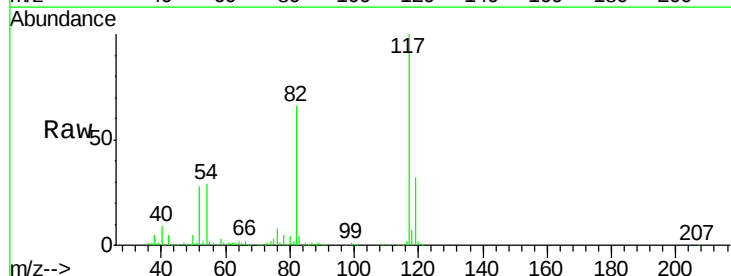
Instrument :
 MSVOA_N
 ClientSampled :
 DUP-01

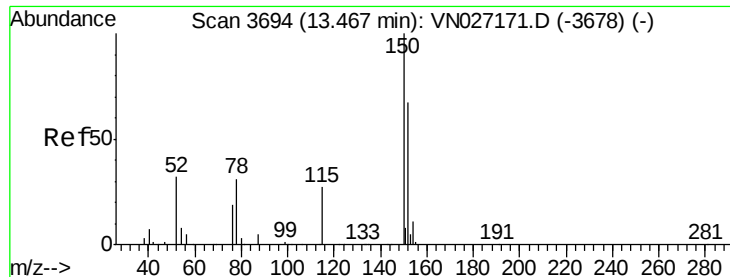
Tgt Ion: 95 Resp: 661428
 Ion Ratio Lower Upper
 95 100
 174 62.6 0.0 137.0
 176 60.2 0.0 130.8



#64
 Chlorobenzene-d5
 Concen: 50.00 ug/l
 RT: 11.52 min Scan# 3087
 Delta R.T. 0.00 min
 Lab File: VN027287.D
 Acq: 18 Sep 2015 6:51

Tgt Ion: 117 Resp: 1134986
 Ion Ratio Lower Upper
 117 100
 82 65.7 49.6 74.4
 119 31.7 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: VN027287.D

Acq: 18 Sep 2015 6:51

Instrument :

MSVOA_N

ClientSampled :

DUP-01

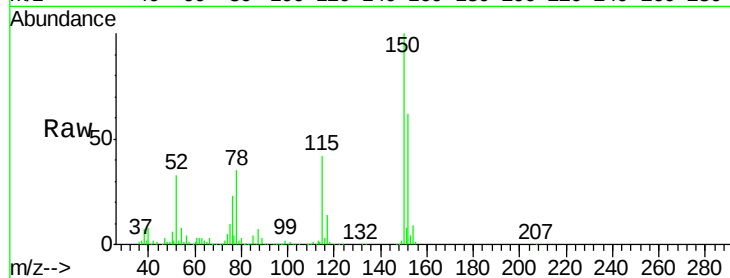
Tgt Ion:152 Resp: 408784

Ion Ratio Lower Upper

152 100

115 66.9 30.8 92.3

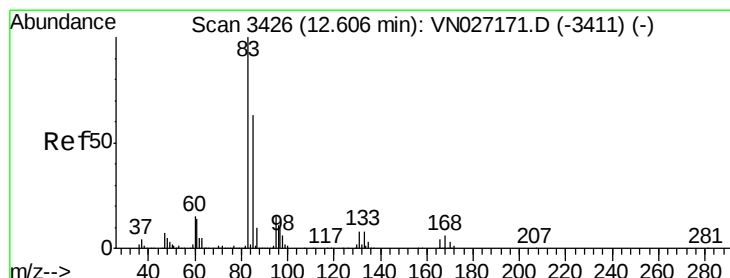
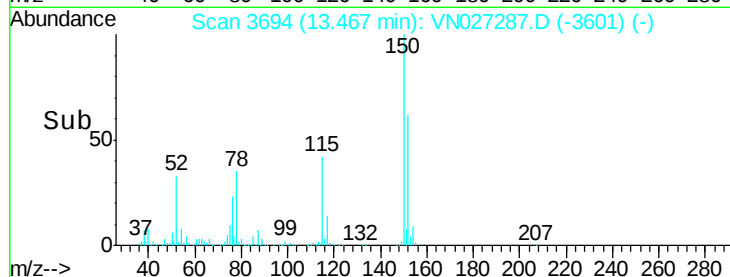
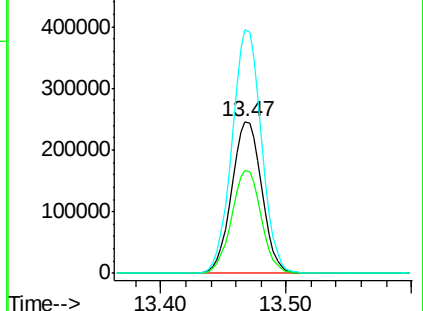
150 157.2 0.0 345.0



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#76

1,1,2,2-Tetrachloroethane

Concen: Below Cal

RT: 12.56 min Scan# 3412

Delta R.T. -0.04 min

Lab File: VN027287.D

Acq: 18 Sep 2015 6:51

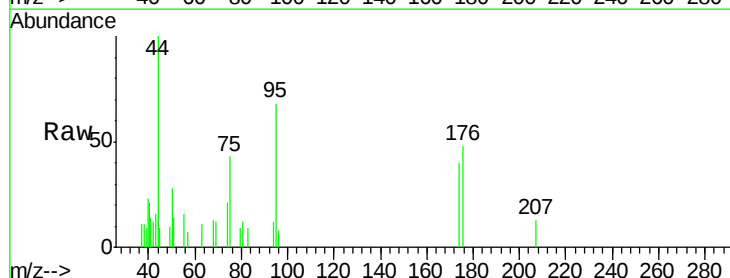
Tgt Ion: 83 Resp: 96

Ion Ratio Lower Upper

83 100

131 0.0 4.1 12.3#

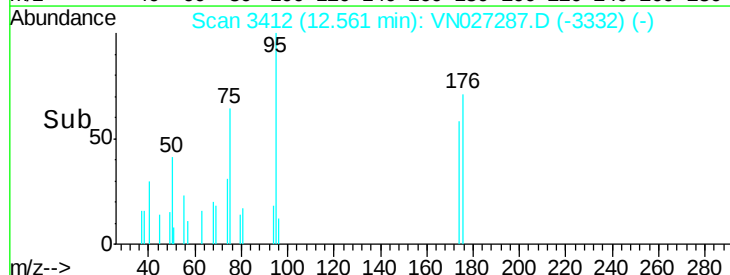
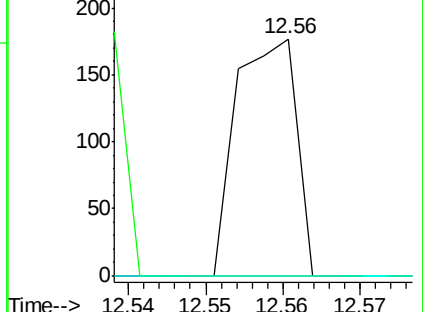
85 0.0 31.9 95.7#

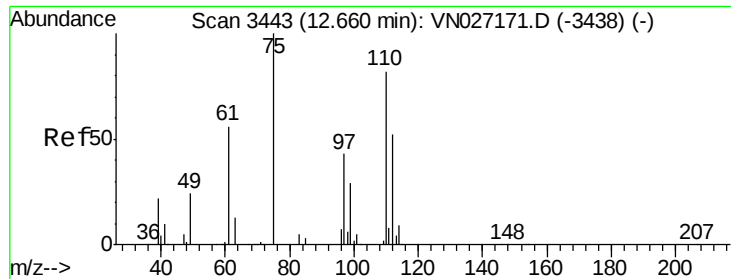


Abundance Ion 82.90 (82.60 to 83.60): V

Ion 130.80 (130.50 to 131.50): V

Ion 84.90 (84.60 to 85.60): V





#77

1,2,3-Trichloropropane

Concen: 30.95 ug/l

RT: 12.52 min Scan# 3398

Delta R.T. -0.14 min

Lab File: VN027287.D

Acq: 18 Sep 2015 6:51

Instrument :

MSVOA_N

ClientSampled :

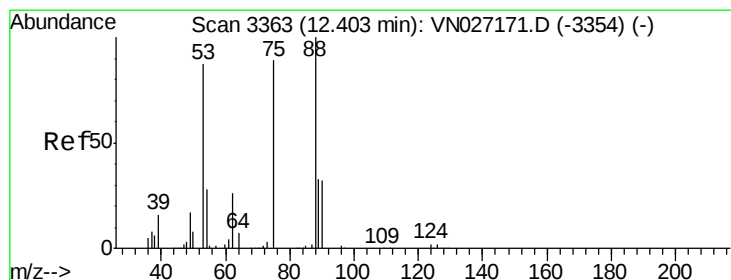
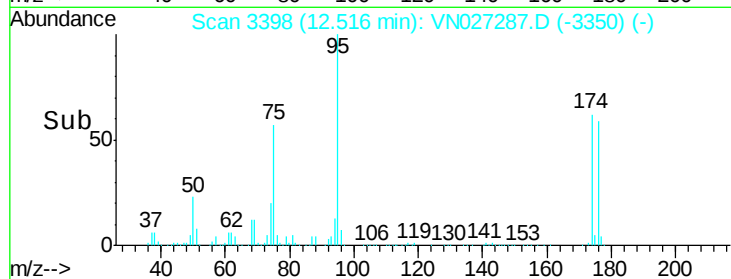
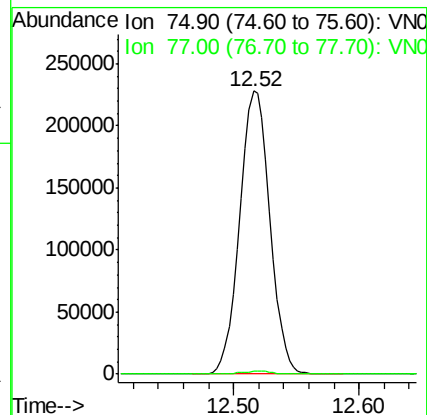
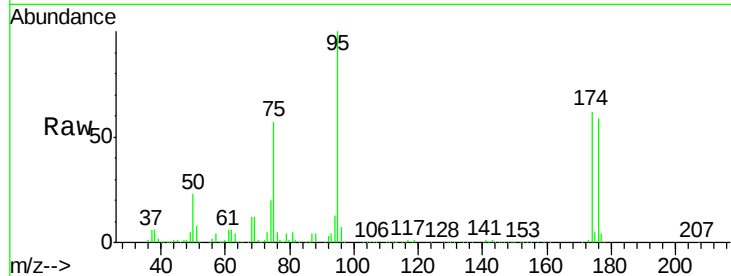
DUP-01

Tgt Ion: 75 Resp: 382391

Ion Ratio Lower Upper

75 100

77 1.0 103.1 309.3#



#82

trans-1,4-Dichloro-2-butene

Concen: 76.03 ug/l

RT: 12.52 min Scan# 3398

Delta R.T. 0.11 min

Lab File: VN027287.D

Acq: 18 Sep 2015 6:51

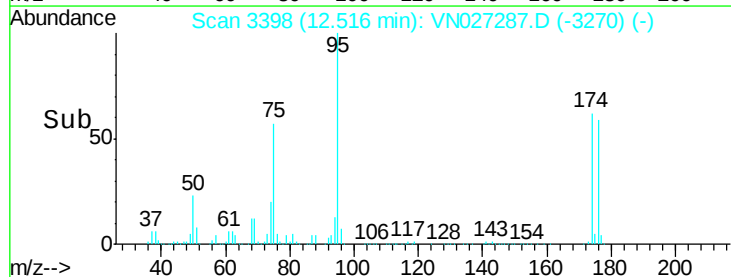
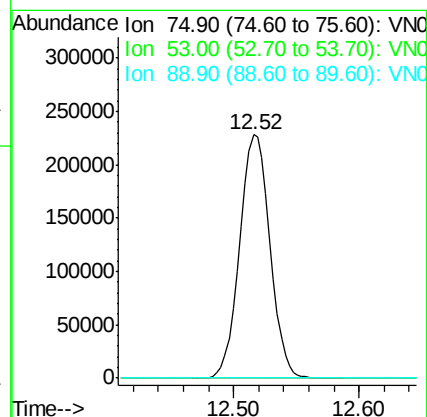
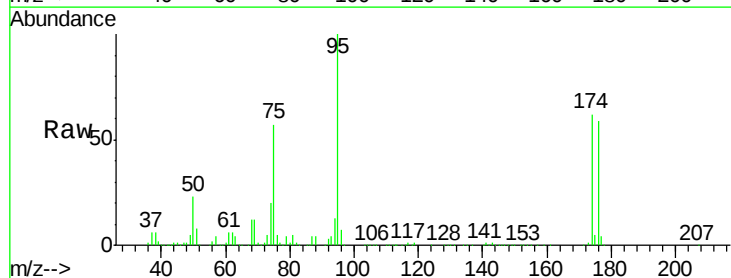
Tgt Ion: 75 Resp: 382391

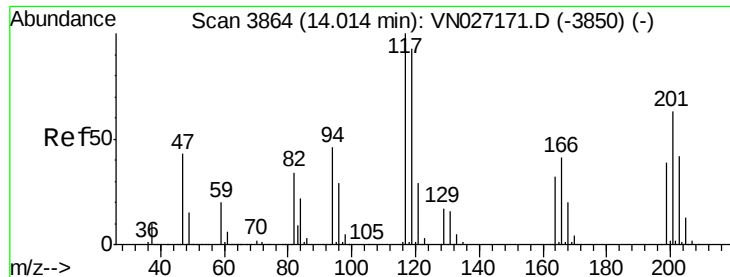
Ion Ratio Lower Upper

75 100

53 0.0 92.9 139.3#

89 0.0 34.2 51.4#





#91

Hexachloroethane

Concen: 0.26 ug/l

RT: 13.76 min Scan# 3784

Delta R.T. -0.26 min

Lab File: VN027287.D

Acq: 18 Sep 2015 6:51

Instrument :

MSVOA_N

ClientSampled :

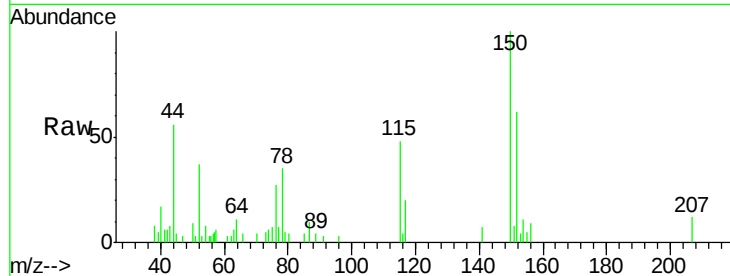
DUP-01

Tgt Ion:117 Resp: 1939

Ion Ratio Lower Upper

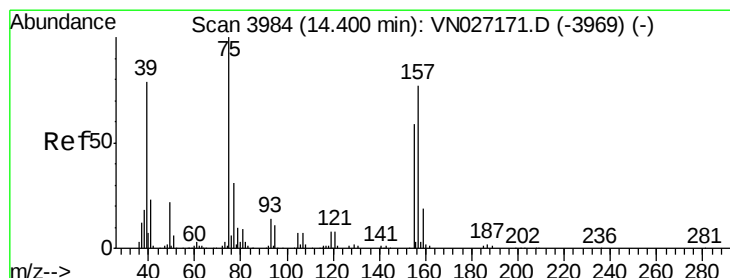
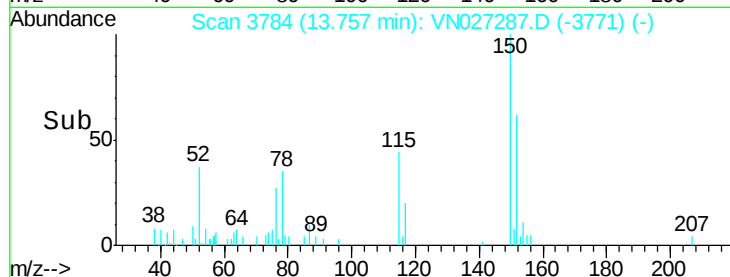
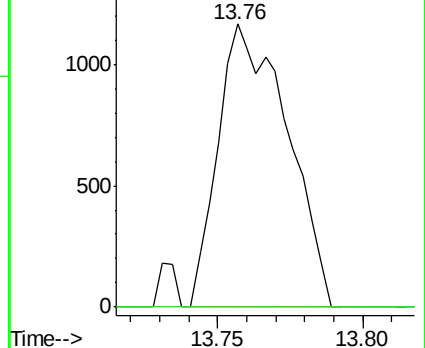
117 100

201 0.0 34.9 104.7#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 200.70 (200.40 to 201.40): V



#93

1,2-Dibromo-3-Chloropropane

Concen: Below Cal

RT: 14.44 min Scan# 3996

Delta R.T. 0.04 min

Lab File: VN027287.D

Acq: 18 Sep 2015 6:51

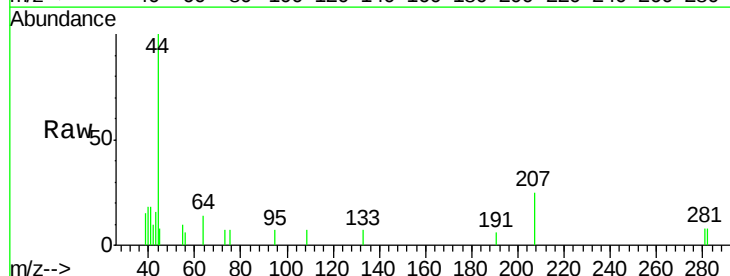
Tgt Ion: 75 Resp: 66

Ion Ratio Lower Upper

75 100

155 0.0 35.6 106.9#

157 0.0 44.6 133.8#



Abundance Ion 74.90 (74.60 to 75.60): V

Ion 154.80 (154.50 to 155.50): V

Ion 156.80 (156.50 to 157.50): V

