

Data Path : W:\HPCHEM1\MSVOA N\DATA\VN091515\
 Data File : VN027187.D
 Acq On : 16 Sep 2015 3:01
 Operator : MD\FY
 Sample : G3629-03
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 S39-0101

Quant Time: Sep 16 04:47:41 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	807094	50.00	ug/l	0.00
35) 1,4-Difluorobenzene	8.68	114	1434292	50.00	ug/l	0.00
64) Chlorobenzene-d5	11.52	117	1198889	50.00	ug/l	0.00
73) 1,4-Dichlorobenzene-d4	13.47	152	409132	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	792104	47.90	ug/l	0.00
Spiked Amount			Recovery	=	95.80%	
36) Dibromofluoromethane	7.68	113	513608	51.66	ug/l	0.00
Spiked Amount			Recovery	=	103.32%	
51) Toluene-d8	10.19	98	2086509	53.60	ug/l	0.00
Spiked Amount			Recovery	=	107.20%	
63) 4-Bromofluorobenzene	12.52	95	687852	49.78	ug/l	0.00
Spiked Amount			Recovery	=	99.56%	

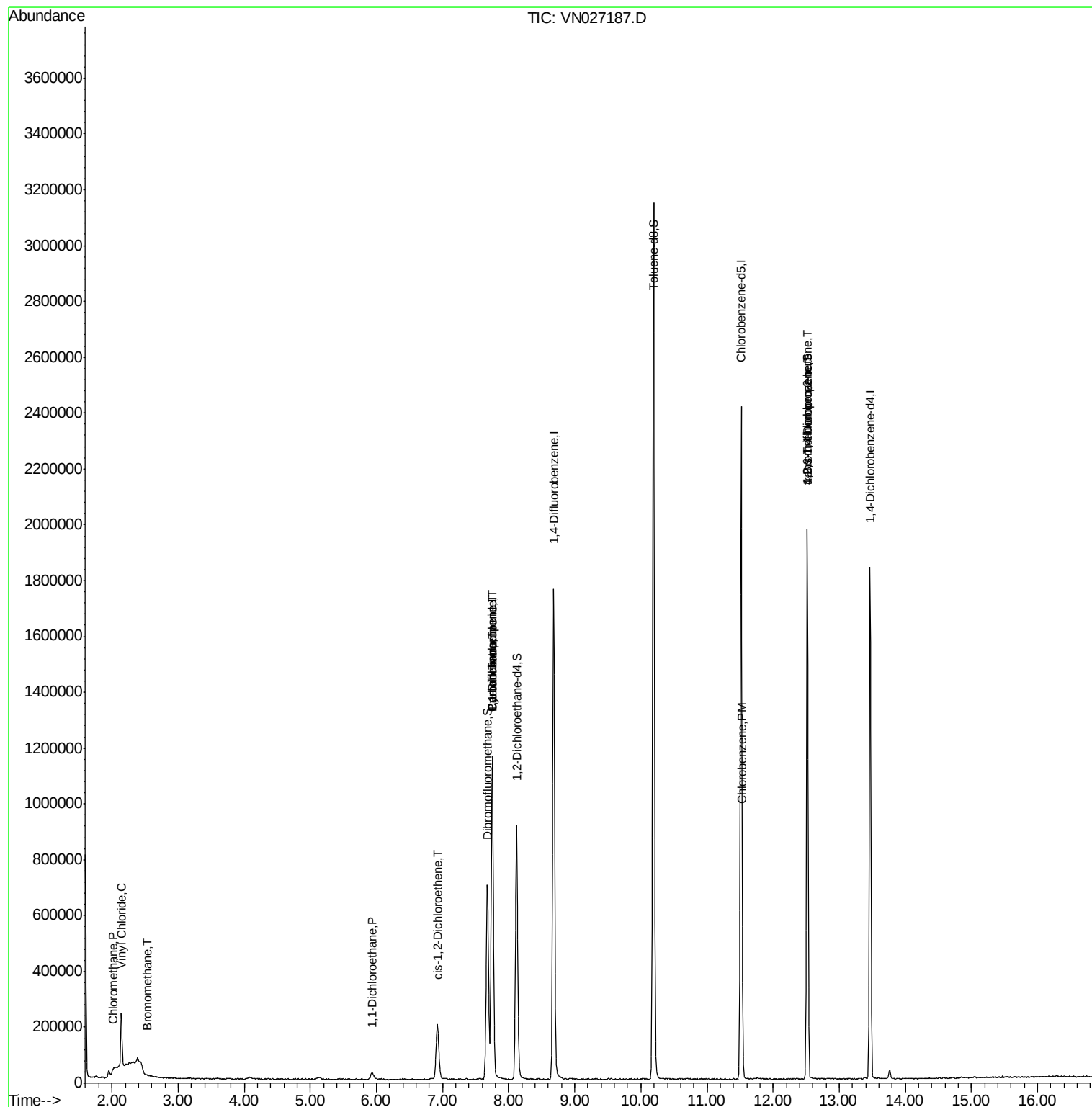
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
4) Chloromethane	2.01	50	3989	1.47	ug/l #	83
5) Vinyl Chloride	2.14	62	161935	14.20	ug/l	98
6) Bromomethane	2.54	94	396	1.67	ug/l #	5
25) 1,1-Dichloroethane	5.94	63	36393	1.43	ug/l	97
28) cis-1,2-Dichloroethene	6.92	96	121864	9.48	ug/l	91
32) Cyclohexane	7.75	56	27011	0.27	ug/l #	1
37) 1,1-Dichloropropene	7.75	75	85157	5.07	ug/l #	50
38) Ethyl Acetate	7.01	43	493	Below Cal	#	42
39) Carbon Tetrachloride	7.75	117	92328	5.85	ug/l #	17
66) Chlorobenzene	11.54	112	9701	0.34	ug/l	90
76) 1,1,2,2-Tetrachloroethane	12.61	83	312	Below Cal	#	49
77) 1,2,3-Trichloropropane	12.52	75	388913	31.45	ug/l #	1
82) trans-1,4-Dichloro-2-buten	12.52	75	388913	77.26	ug/l #	4
93) 1,2-Dibromo-3-Chloropropan	14.38	75	31	Below Cal	#	9

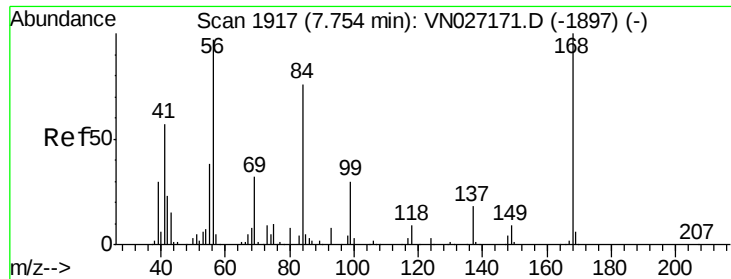
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 7.75 min Scan# 1917

Delta R.T. 0.00 min

Lab File: VN027187.D

Acq: 16 Sep 2015 3:01

Instrument :

MSVOA_N

ClientSampleId :

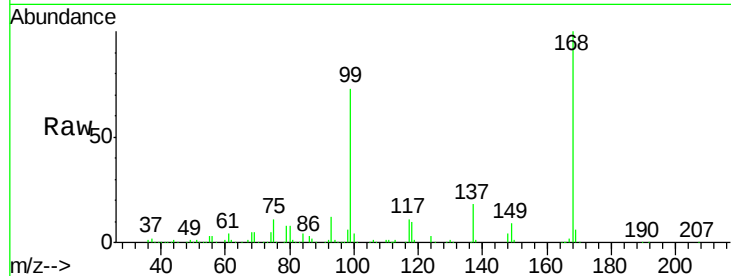
S39-0101

Tot Ion:168 Resp: 807094

Ion Ratio Lower Upper

168 100

99 73.2 50.4 75.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.75

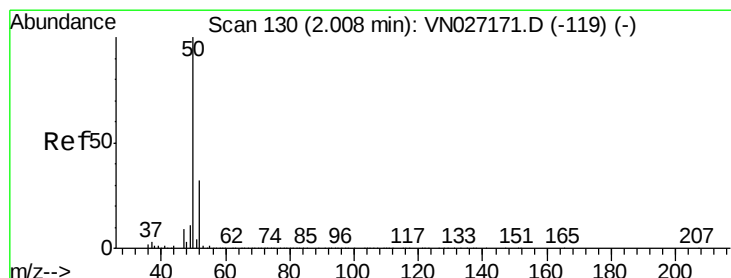
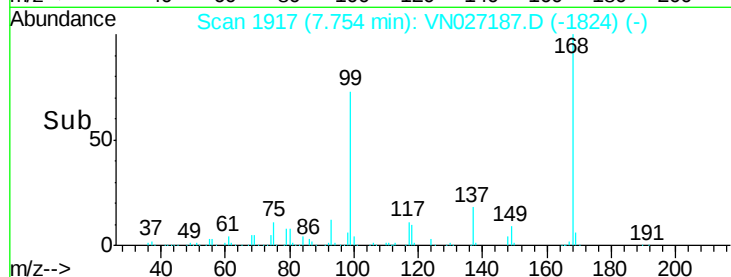
300000

200000

100000

0

Time-->



#4

Chloromethane

Concen: 1.47 ug/l

RT: 2.01 min Scan# 130

Delta R.T. 0.00 min

Lab File: VN027187.D

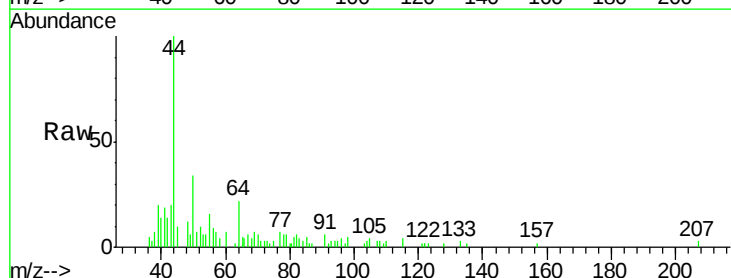
Acq: 16 Sep 2015 3:01

Tgt Ion: 50 Resp: 3989

Ion Ratio Lower Upper

50 100

52 22.7 25.9 38.9#



Abundance Ion 49.90 (49.60 to 50.60): VN

Ion 51.90 (51.60 to 52.60): VN

2.01

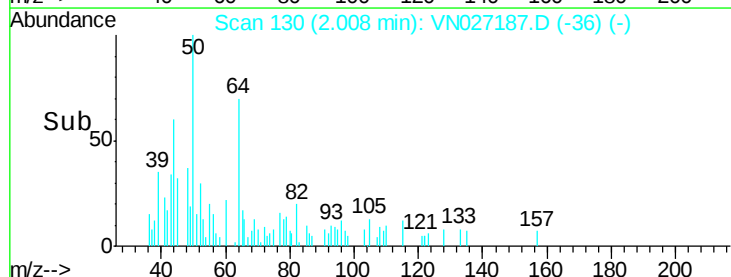
3000

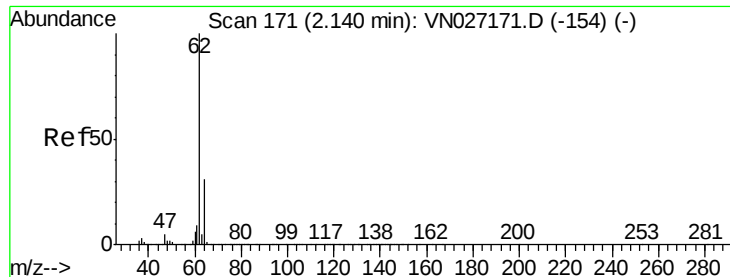
2000

1000

0

Time-->





#5

Vinyl Chloride

Concen: 14.20 ug/l

RT: 2.14 min Scan# 172

Delta R.T. 0.00 min

Lab File: VN027187.D

Acq: 16 Sep 2015 3:01

Instrument :

MSVOA_N

ClientSampled :

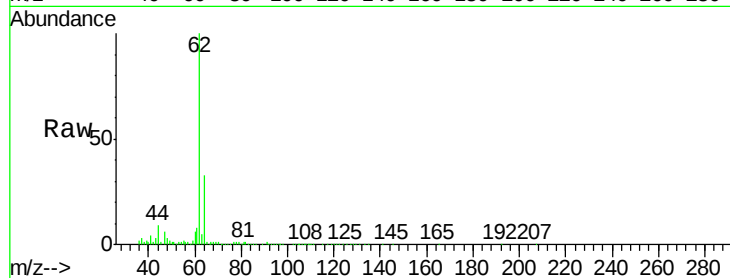
S39-0101

Tot Ion: 62 Resp: 161935

Ion Ratio Lower Upper

62 100

64 31.0 25.9 38.9



Abundance Ion 61.90 (61.60 to 62.60): VN0

Ion 63.90 (63.60 to 64.60): VN0

2.14

120000

100000

80000

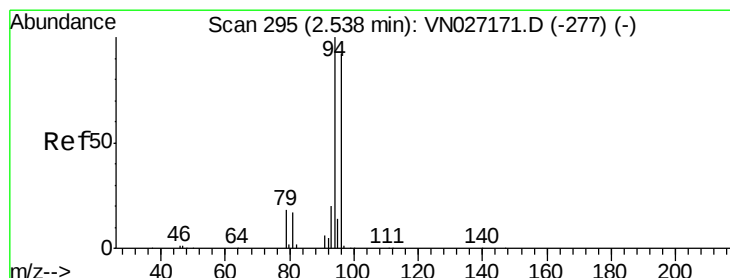
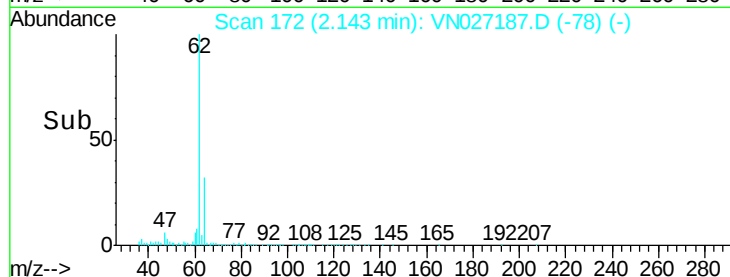
60000

40000

20000

0

Time-->



#6

Bromomethane

Concen: 1.67 ug/l

RT: 2.54 min Scan# 295

Delta R.T. 0.00 min

Lab File: VN027187.D

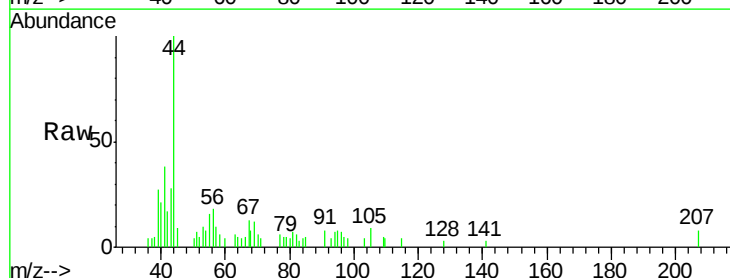
Acq: 16 Sep 2015 3:01

Tgt Ion: 94 Resp: 396

Ion Ratio Lower Upper

94 100

96 1.7 73.4 110.2#



Abundance Ion 93.90 (93.60 to 94.60): VN0

Ion 95.90 (95.60 to 96.60): VN0

2.54

600

500

400

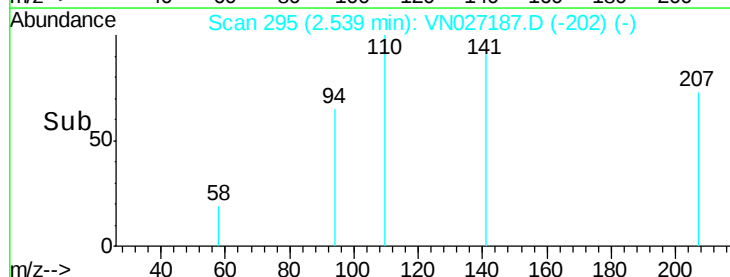
300

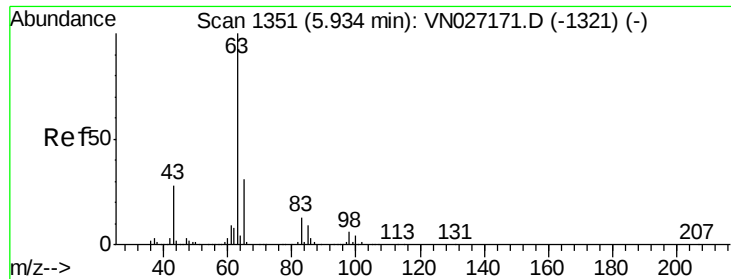
200

100

0

Time-->





#25

1,1-Dichloroethane

Concen: 1.43 ug/l

RT: 5.94 min Scan# 1352

Delta R.T. 0.00 min

Lab File: VN027187.D

Acq: 16 Sep 2015 3:01

Instrument :

MSVOA_N

ClientSampled :

S39-0101

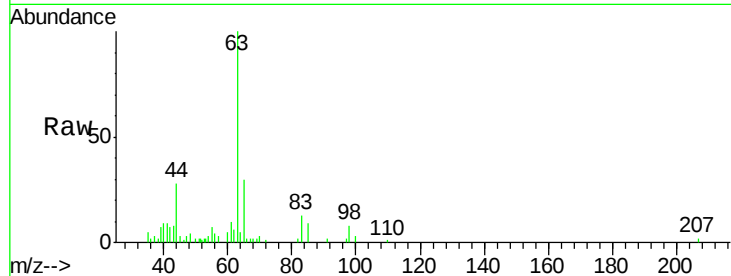
Tot Ion: 63 Resp: 36393

Ion Ratio Lower Upper

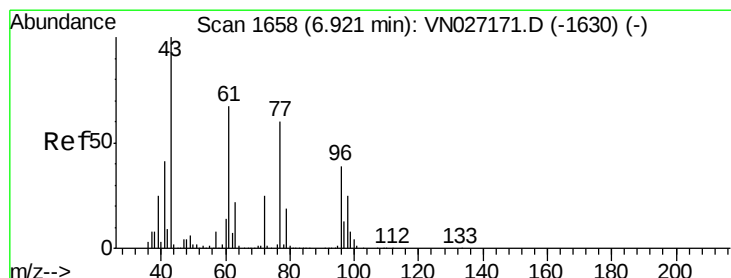
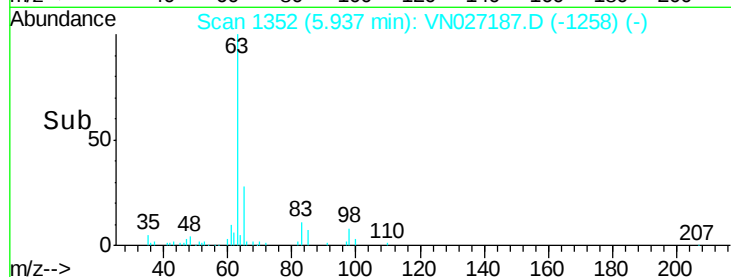
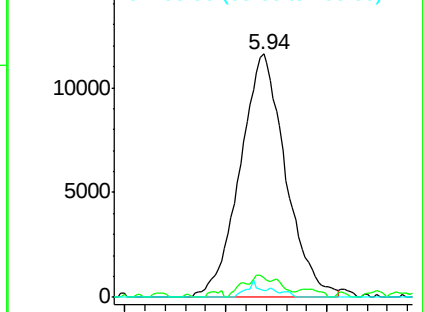
63 100

98 6.6 2.8 8.3

100 2.7 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



#28

cis-1,2-Dichloroethene

Concen: 9.48 ug/l

RT: 6.92 min Scan# 1658

Delta R.T. 0.00 min

Lab File: VN027187.D

Acq: 16 Sep 2015 3:01

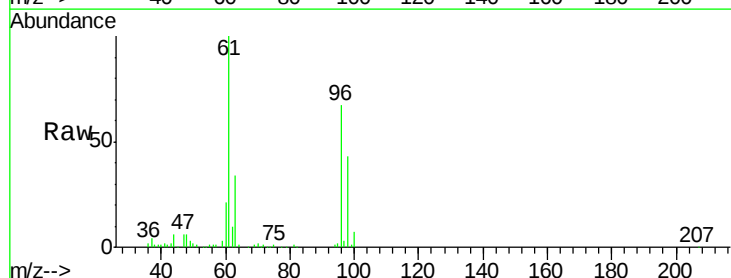
Tgt Ion: 96 Resp: 121864

Ion Ratio Lower Upper

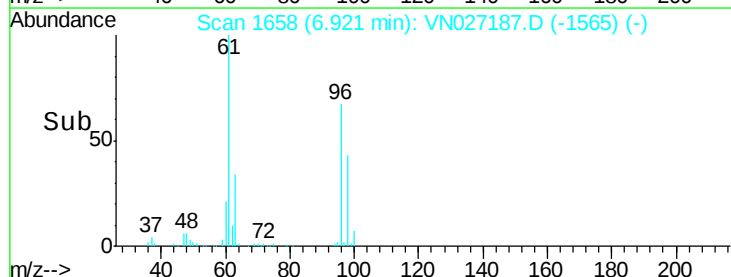
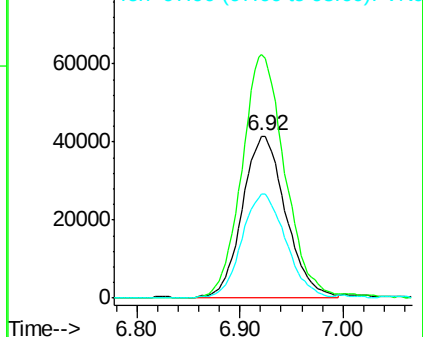
96 100

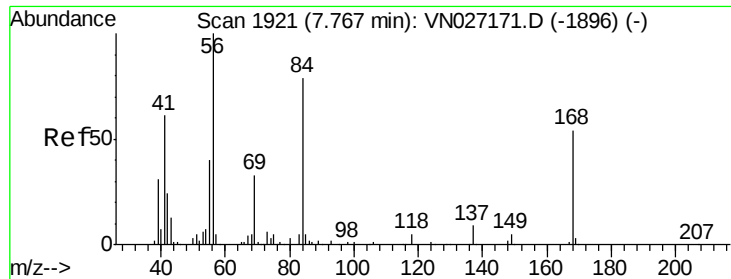
61 149.6 0.0 329.2

98 65.0 0.0 126.0



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

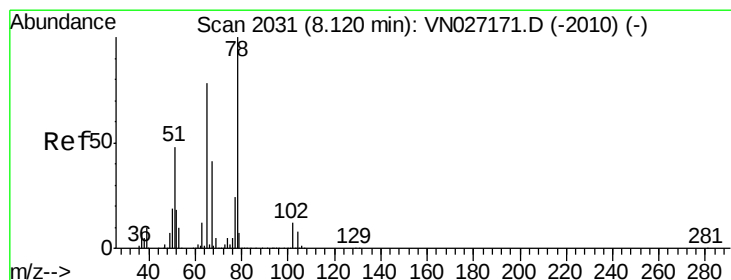
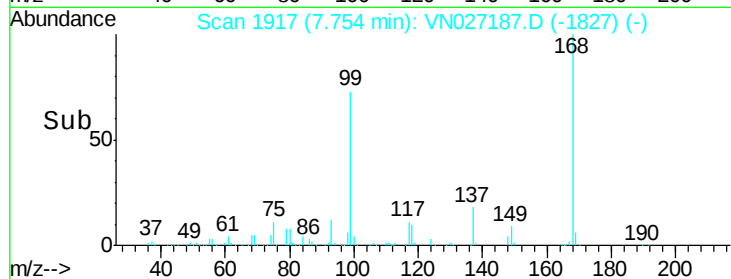
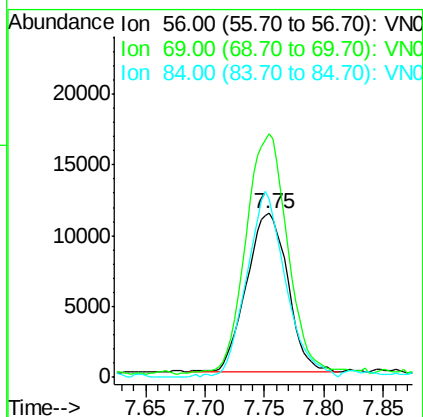
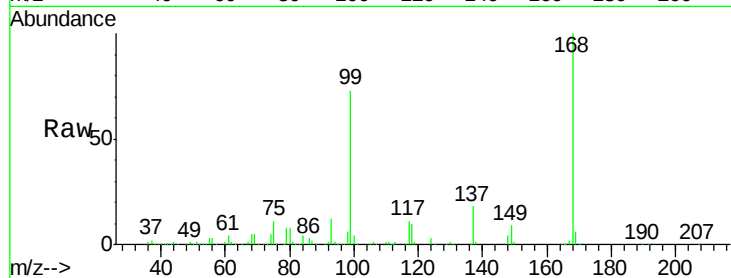




#32
Cyclohexane
Concen: 0.27 ug/l
RT: 7.75 min Scan# 1917
Delta R.T. -0.01 min
Lab File: VN027187.D
Acq: 16 Sep 2015 3:01

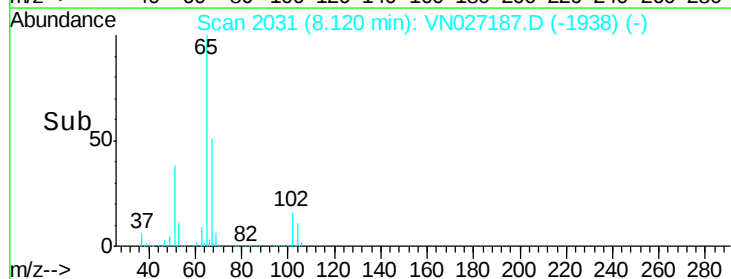
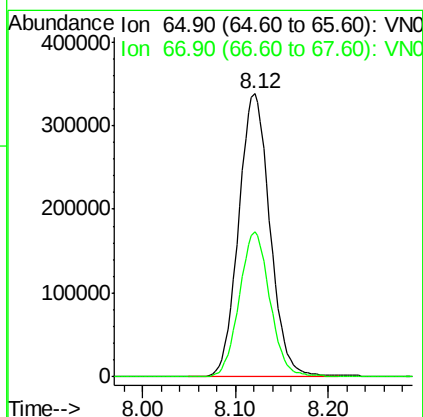
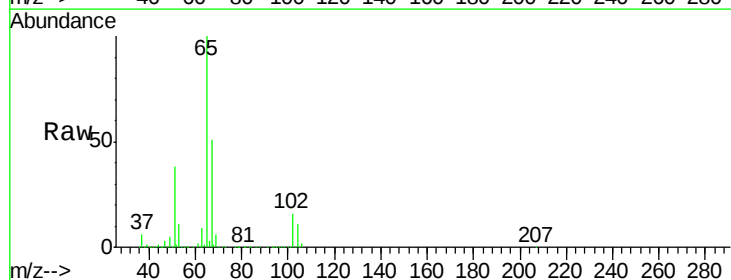
Instrument :
MSVOA_N
ClientSampled :
S39-0101

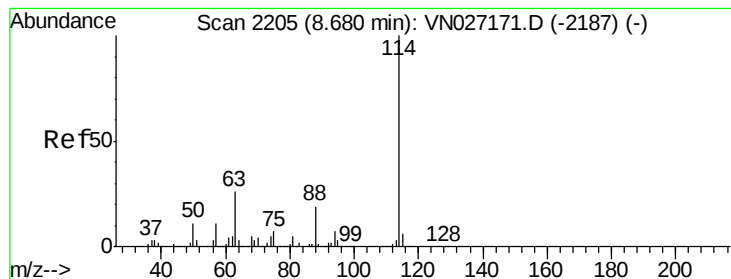
Tot Ion: 56 Resp: 27011
Ion Ratio Lower Upper
56 100
69 150.4 23.0 34.4#
84 112.0 57.8 86.8#



#34
1,2-Dichloroethane-d4
Concen: 47.90 ug/l
RT: 8.12 min Scan# 2031
Delta R.T. 0.00 min
Lab File: VN027187.D
Acq: 16 Sep 2015 3:01

Tgt Ion: 65 Resp: 792104
Ion Ratio Lower Upper
65 100
67 50.0 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: VN027187.D

Acq: 16 Sep 2015 3:01

Instrument :

MSVOA_N

ClientSampleId :

S39-0101

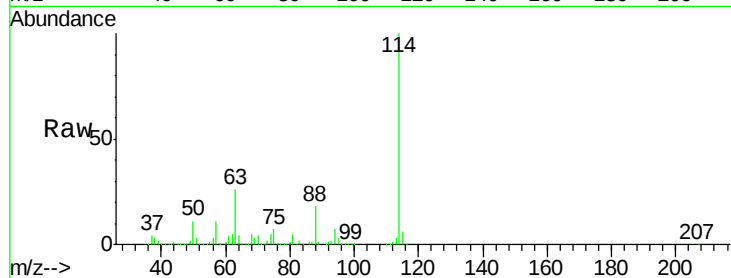
Tot Ion:114 Resp: 1434292

Ion Ratio Lower Upper

114 100

63 25.9 0.0 48.8

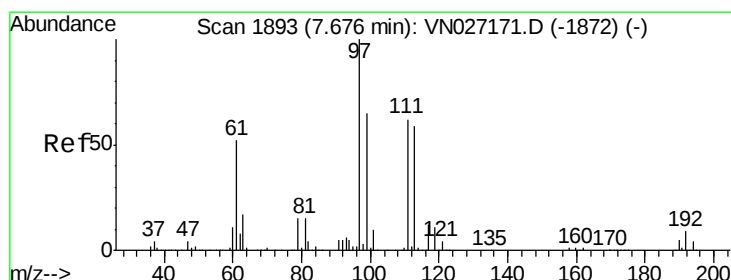
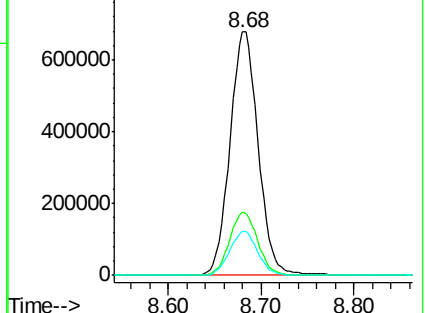
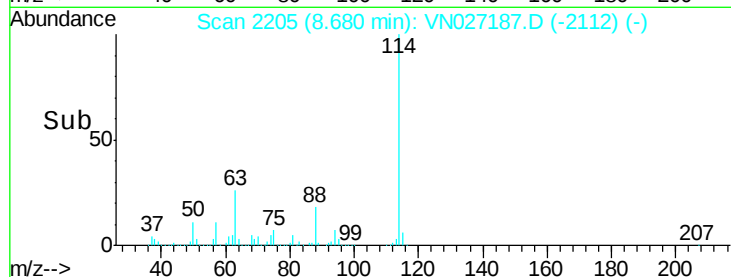
88 18.0 0.0 32.2



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: 51.66 ug/l

RT: 7.68 min Scan# 1893

Delta R.T. 0.00 min

Lab File: VN027187.D

Acq: 16 Sep 2015 3:01

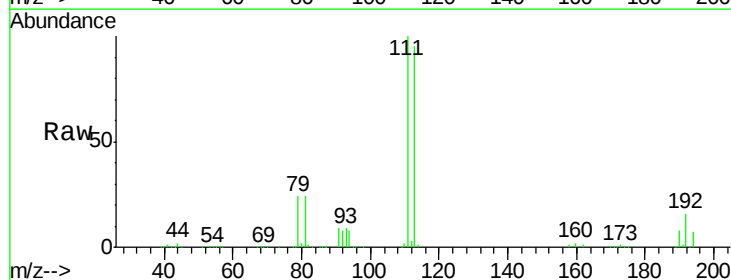
Tgt Ion:113 Resp: 513608

Ion Ratio Lower Upper

113 100

111 105.5 83.0 124.4

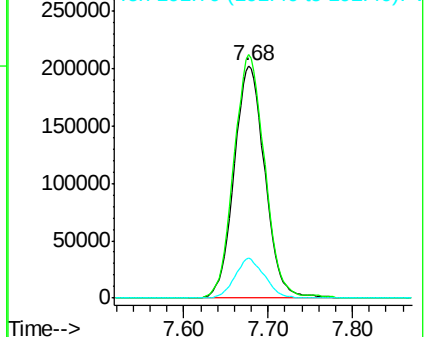
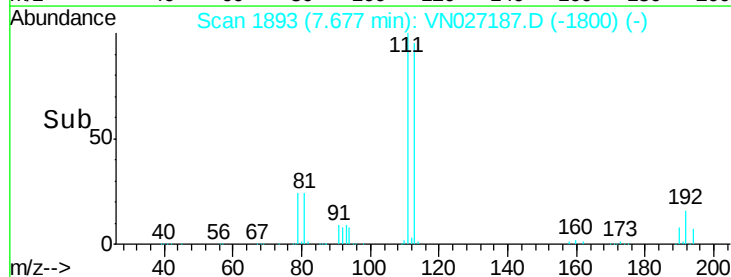
192 16.6 14.1 21.1

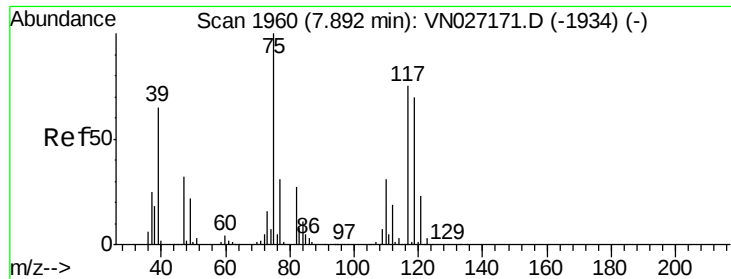


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

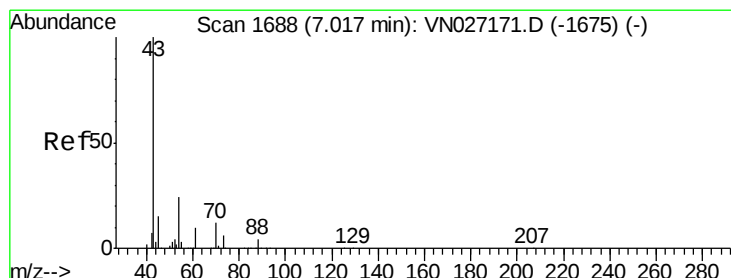
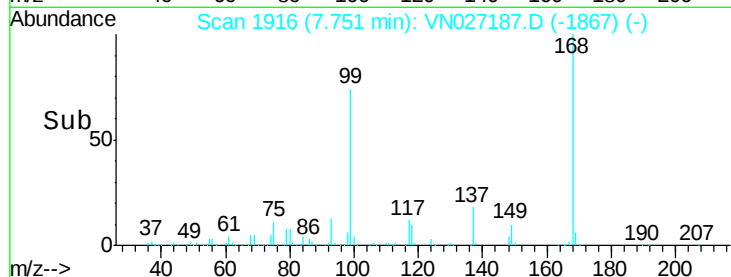
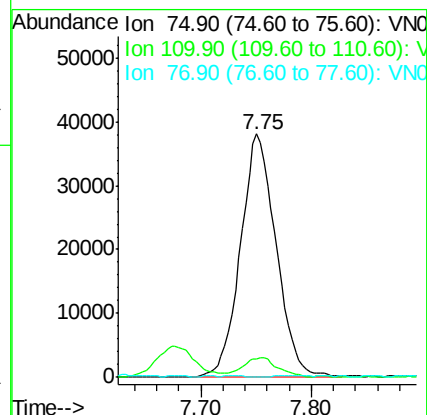
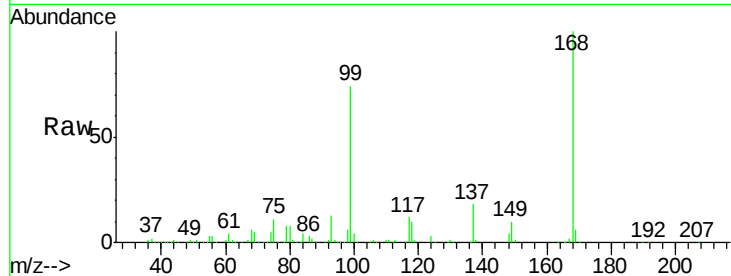




#37
 1,1-Dichloropropene
 Concen: 5.07 ug/l
 RT: 7.75 min Scan# 1916
 Delta R.T. -0.14 min
 Lab File: VN027187.D
 Acq: 16 Sep 2015 3:01

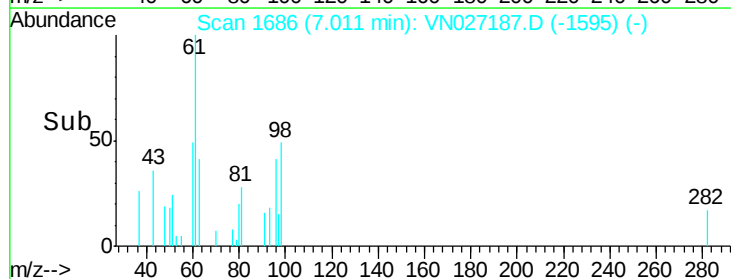
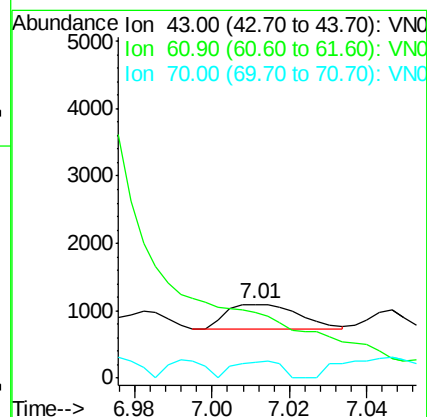
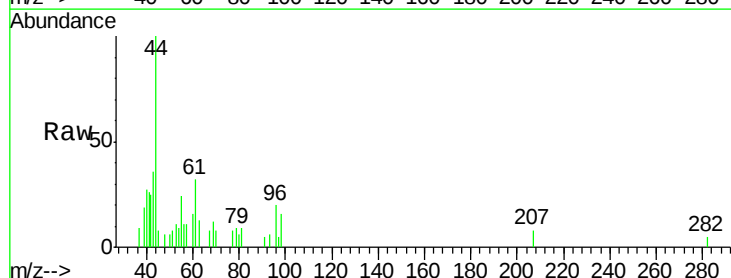
Instrument :
 MSVOA_N
 ClientSampled :
 S39-0101

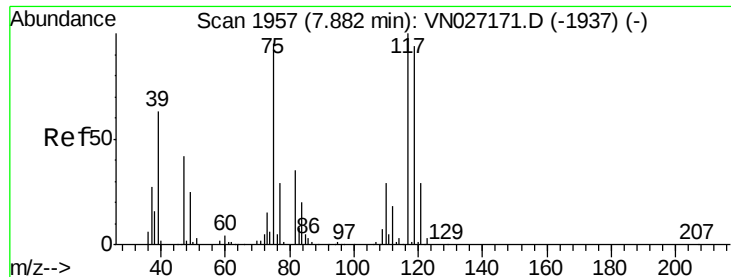
Tot Ion	Ratio	Lower	Upper
75	100		
110	8.0	15.9	47.7#
77	0.0	24.9	37.3#



#38
 Ethyl Acetate
 Concen: Below Cal
 RT: 7.01 min Scan# 1686
 Delta R.T. -0.01 min
 Lab File: VN027187.D
 Acq: 16 Sep 2015 3:01

Tgt Ion	Ratio	Lower	Upper
43	100		
61	0.0	10.2	15.4#
70	43.2	7.4	11.0#

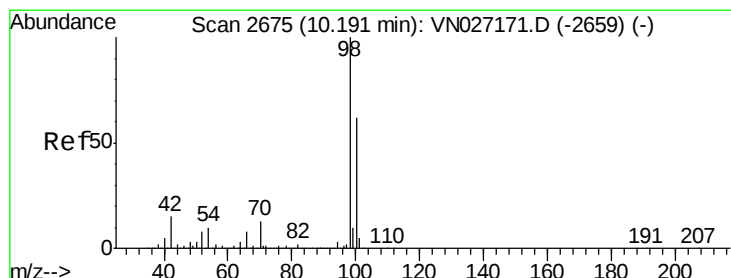
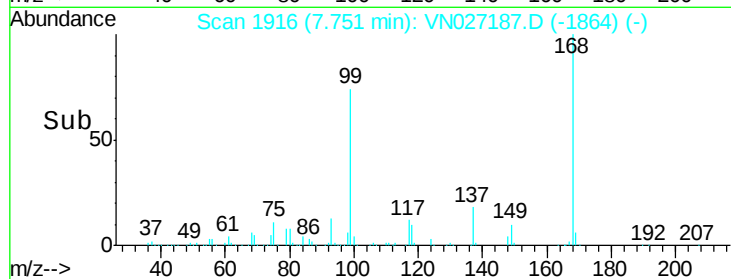
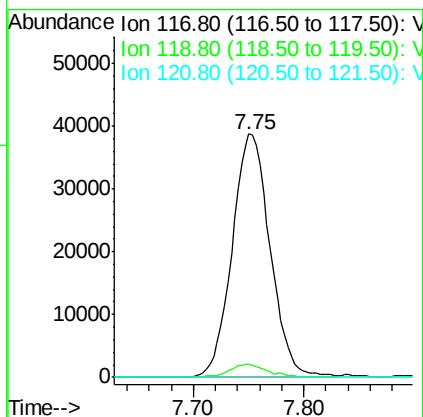
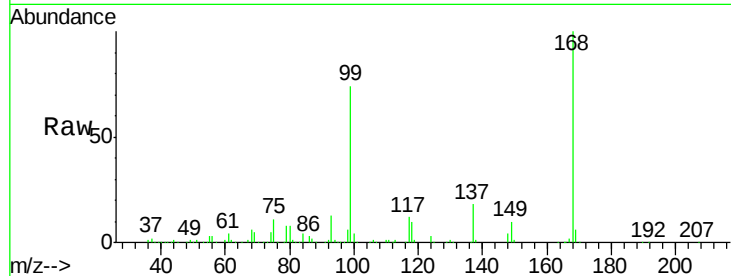




#39
Carbon Tetrachloride
Concen: 5.85 ug/l
RT: 7.75 min Scan# 1916
Delta R.T. -0.13 min
Lab File: VN027187.D
Acq: 16 Sep 2015 3:01

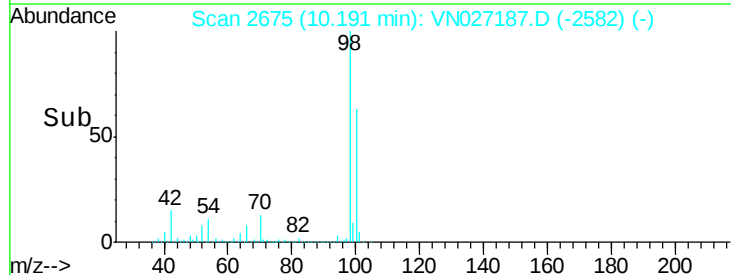
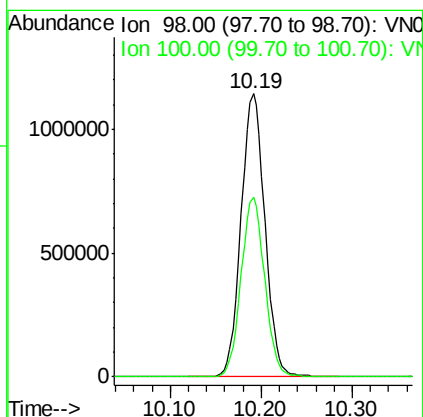
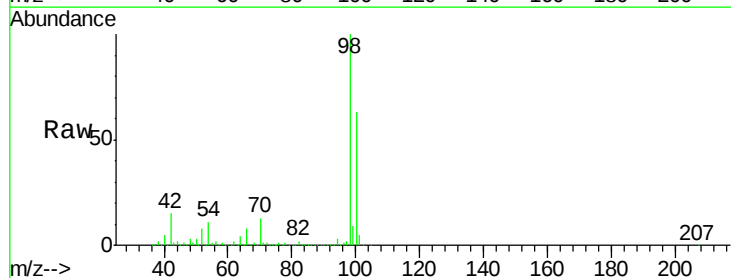
Instrument :
MSVOA_N
ClientSampled :
S39-0101

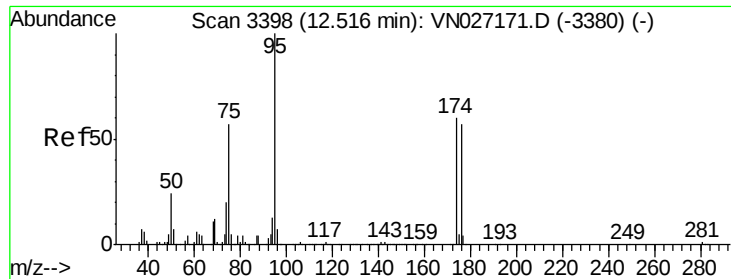
Tot Ion:117 Resp: 92328
Ion Ratio Lower Upper
117 100
119 5.2 75.3 112.9#
121 0.0 23.8 35.8#



#51
Toluene-d8
Concen: 53.60 ug/l
RT: 10.19 min Scan# 2675
Delta R.T. 0.00 min
Lab File: VN027187.D
Acq: 16 Sep 2015 3:01

Tgt Ion: 98 Resp: 2086509
Ion Ratio Lower Upper
98 100
100 62.9 50.5 75.7

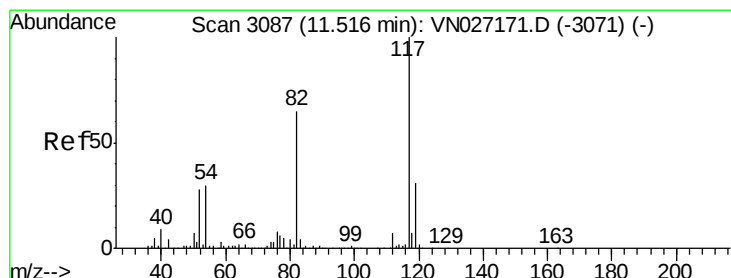
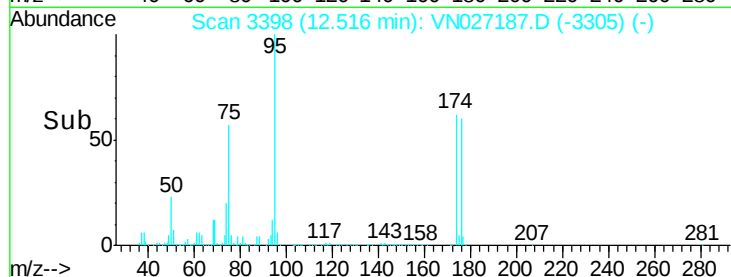
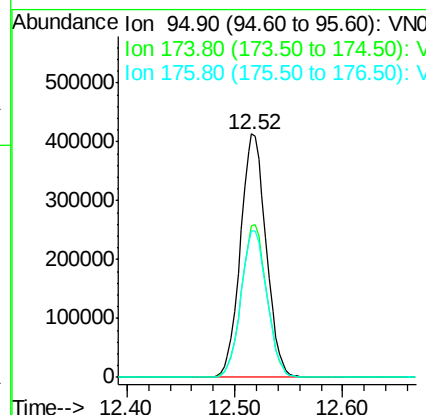
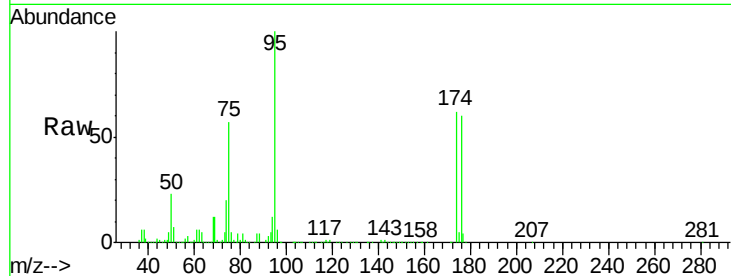




#63
4-Bromofluorobenzene
Concen: 49.78 ug/l
RT: 12.52 min Scan# 3398
Delta R.T. 0.00 min
Lab File: VN027187.D
Acq: 16 Sep 2015 3:01

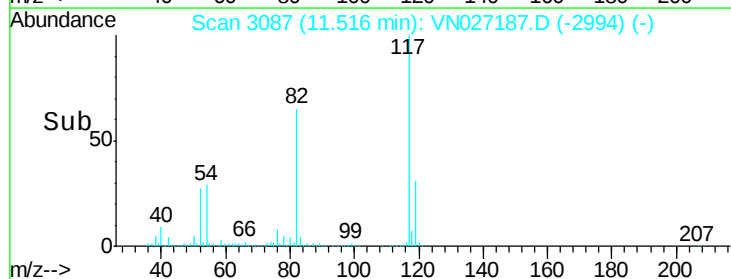
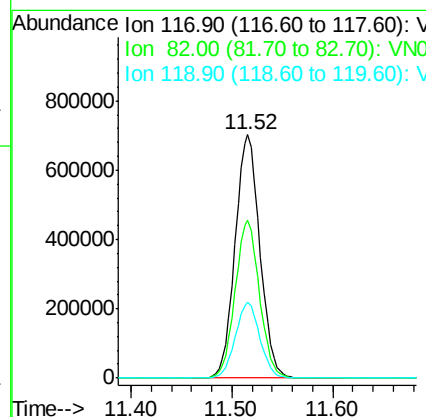
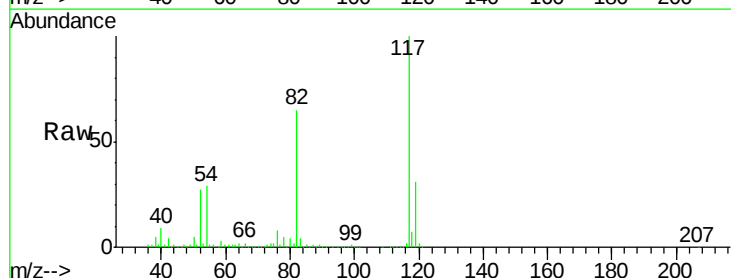
Instrument :
MSVOA_N
ClientSampled :
S39-0101

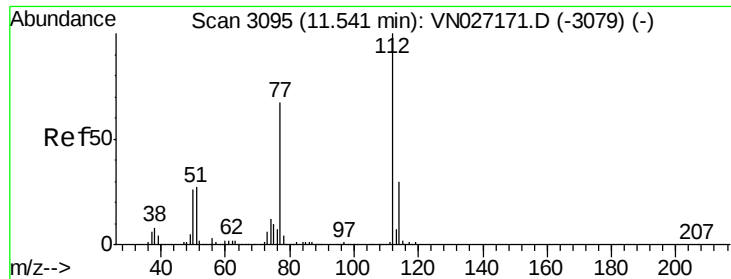
Tot Ion: 95 Resp: 687852
Ion Ratio Lower Upper
95 100
174 62.2 0.0 137.0
176 60.8 0.0 130.8



#64
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 11.52 min Scan# 3087
Delta R.T. 0.00 min
Lab File: VN027187.D
Acq: 16 Sep 2015 3:01

Tgt Ion: 117 Resp: 1198889
Ion Ratio Lower Upper
117 100
82 64.6 49.6 74.4
119 31.0 24.6 36.8





#66

Chlorobenzene

Concen: 0.34 ug/l

RT: 11.54 min Scan# 3095

Delta R.T. 0.00 min

Lab File: VN027187.D

Acq: 16 Sep 2015 3:01

Instrument :

MSVOA_N

ClientSampleId :

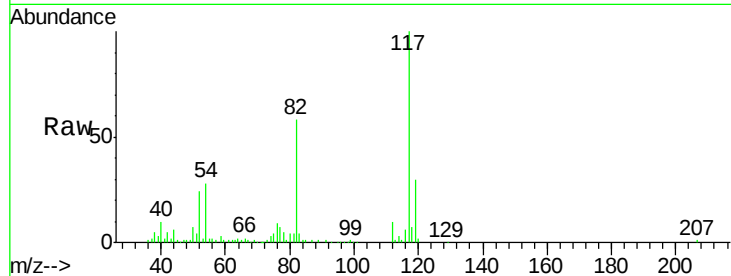
S39-0101

Tot Ion:112 Resp: 9701

Ion Ratio Lower Upper

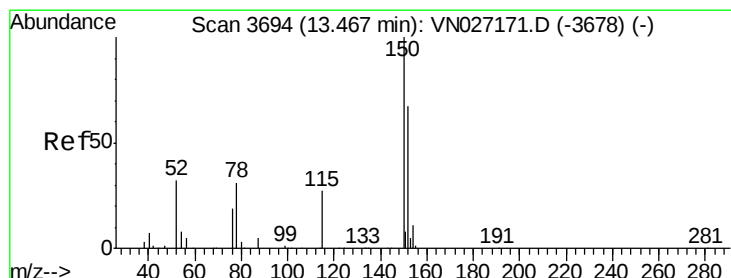
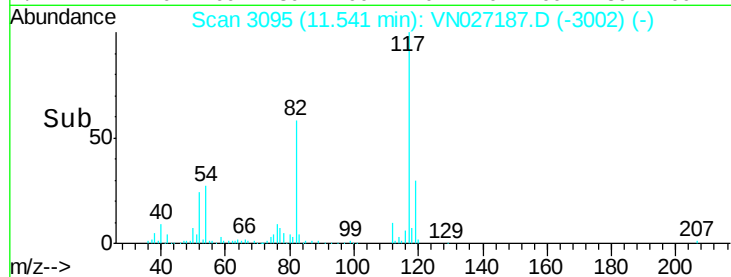
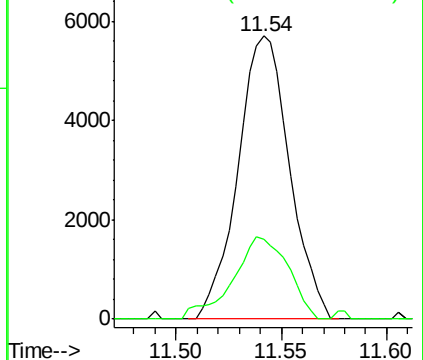
112 100

114 25.4 24.9 37.3



Abundance Ion 111.90 (111.60 to 112.60): V

Ion 113.90 (113.60 to 114.60): V



#73

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 13.47 min Scan# 3694

Delta R.T. 0.00 min

Lab File: VN027187.D

Acq: 16 Sep 2015 3:01

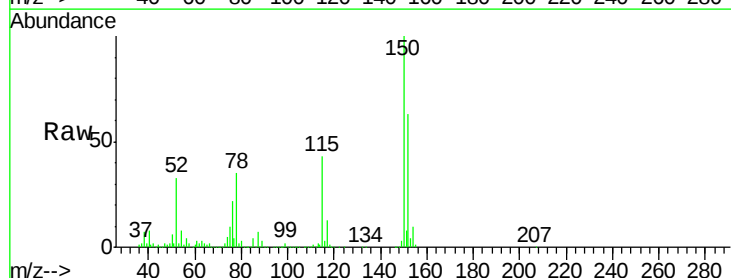
Tgt Ion:152 Resp: 409132

Ion Ratio Lower Upper

152 100

115 68.2 30.8 92.3

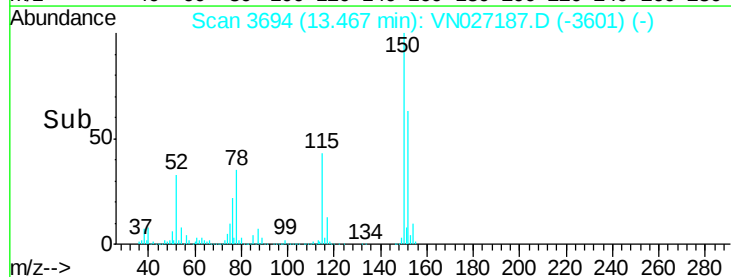
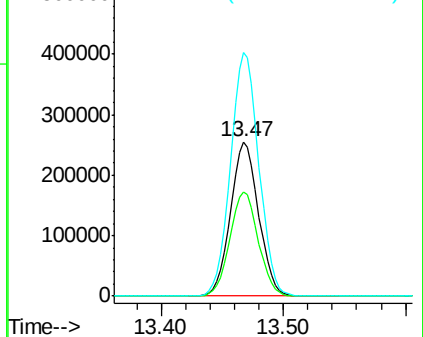
150 159.2 0.0 345.0

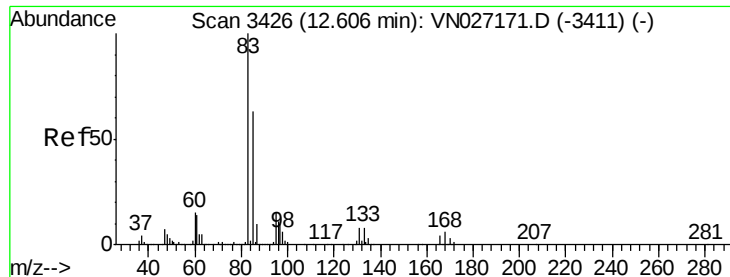


Abundance Ion 151.90 (151.60 to 152.60): V

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: 12.61 min Scan# 3426

Delta R.T. 0.00 min

Lab File: VN027187.D

Acq: 16 Sep 2015 3:01

Instrument :

MSVOA_N

ClientSampleId :

S39-0101

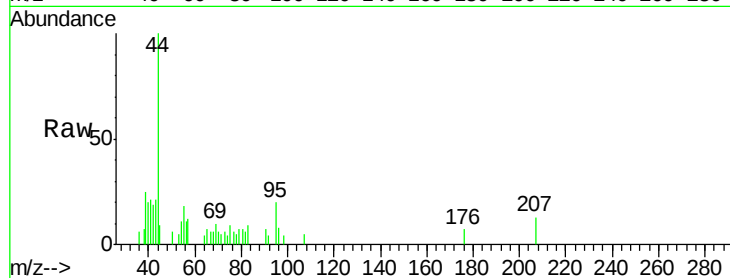
Tot Ion: 83 Resp: 312

Ion Ratio Lower Upper

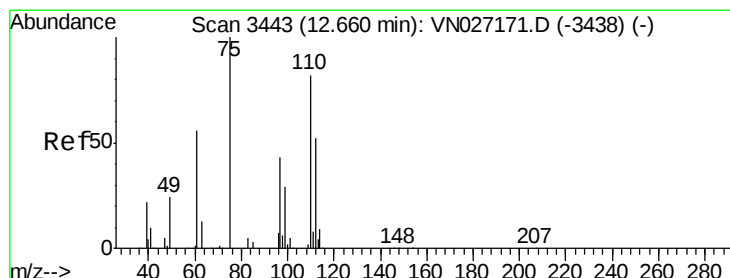
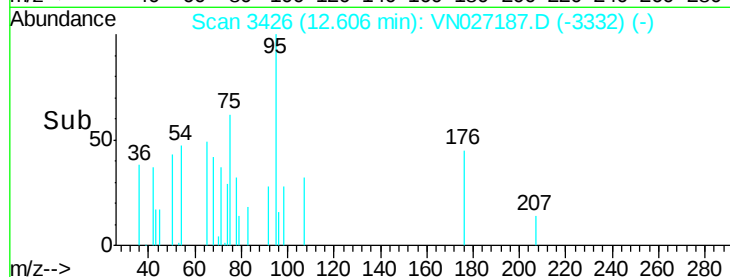
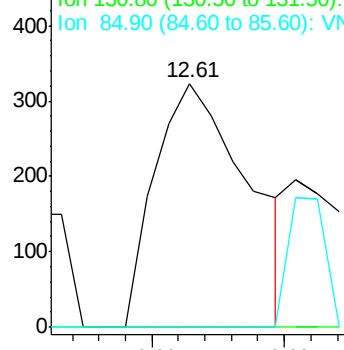
83 100

131 0.0 4.1 12.3#

85 21.2 31.9 95.7#



Abundance Ion 82.90 (82.60 to 83.60): VN027187.D (-3426) (-)



#77

1,2,3-Trichloropropane

Concen: 31.45 ug/l

RT: 12.52 min Scan# 3398

Delta R.T. -0.14 min

Lab File: VN027187.D

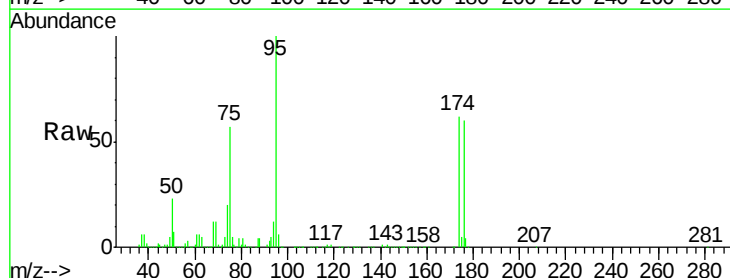
Acq: 16 Sep 2015 3:01

Tgt Ion: 75 Resp: 388913

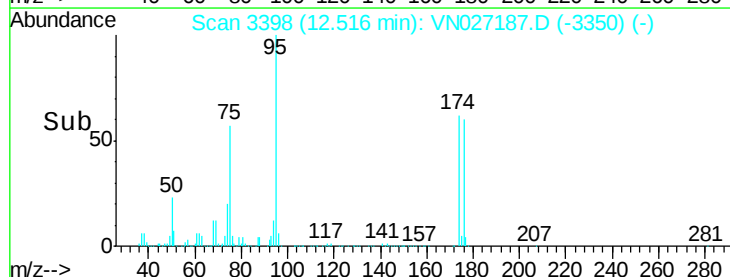
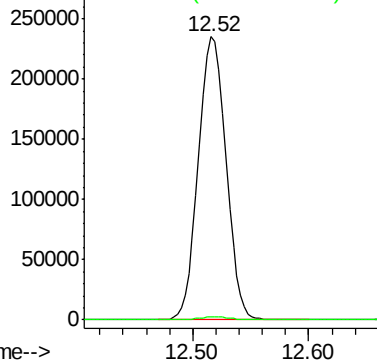
Ion Ratio Lower Upper

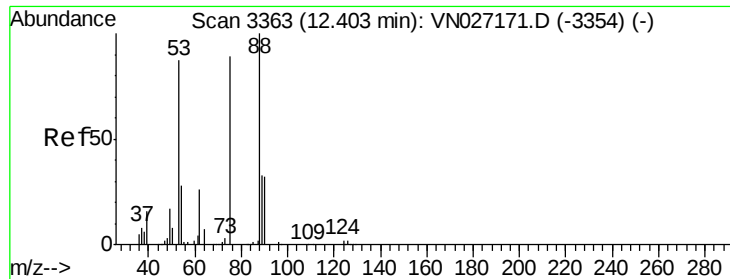
75 100

77 1.2 103.1 309.3#



Abundance Ion 74.90 (74.60 to 75.60): VN027187.D (-3398) (-)





#82

trans-1,4-Dichloro-2-butene

Concen: 77.26 ug/l

RT: 12.52 min Scan# 3398

Delta R.T. 0.11 min

Lab File: VN027187.D

Acq: 16 Sep 2015 3:01

Instrument :

MSVOA_N

ClientSampleId :

S39-0101

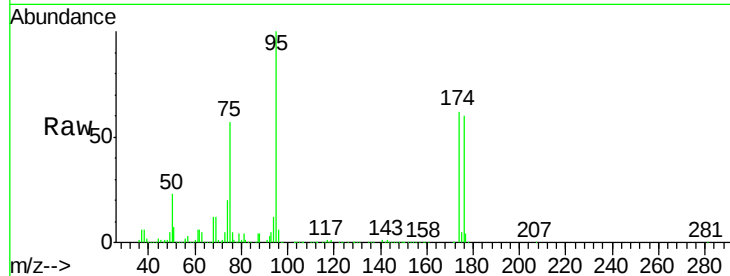
Tot Ion: 75 Resp: 388913

Ion Ratio Lower Upper

75 100

53 0.0 92.9 139.3#

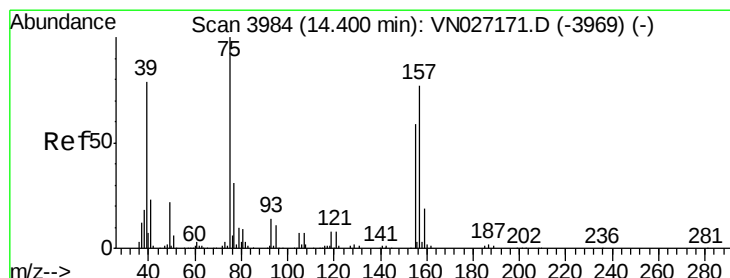
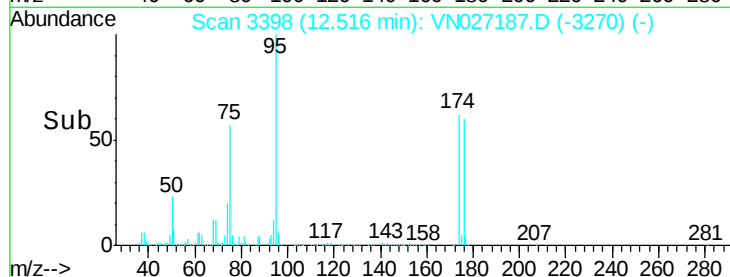
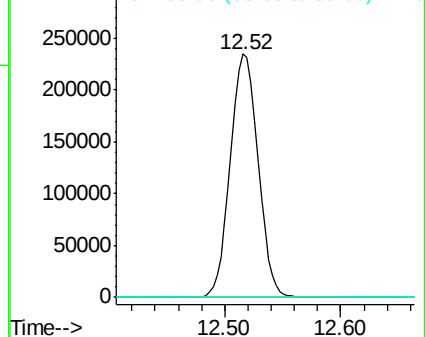
89 0.0 34.2 51.4#



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



#93

1,2-Dibromo-3-Chloropropane

Concen: Below Cal

RT: 14.38 min Scan# 3978

Delta R.T. -0.02 min

Lab File: VN027187.D

Acq: 16 Sep 2015 3:01

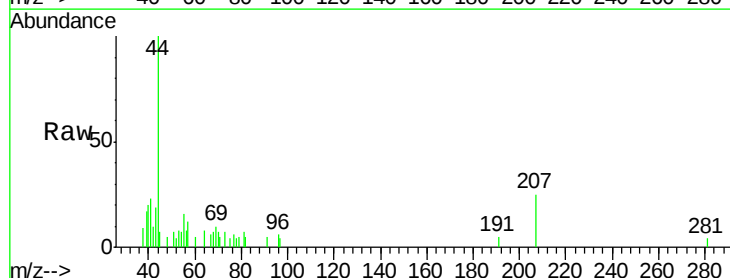
Tgt Ion: 75 Resp: 31

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): VN0

Ion 154.80 (154.50 to 155.50): V

Ion 156.80 (156.50 to 157.50): V

