

Data Path : W:\HPCHEM1\MSVOA N\DATA\VN091515\
 Data File : VN027185.D
 Acq On : 16 Sep 2015 2:06
 Operator : MD\FY
 Sample : G3629-01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 S39-0102

Quant Time: Sep 16 03:48:56 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	824552	50.00	ug/l	0.00
35) 1,4-Difluorobenzene	8.68	114	1462705	50.00	ug/l	0.00
64) Chlorobenzene-d5	11.52	117	1232015	50.00	ug/l	0.00
73) 1,4-Dichlorobenzene-d4	13.47	152	428977	50.00	ug/l	0.00

System Monitoring Compounds

34) 1,2-Dichloroethane-d4	8.12	65	799213	47.31	ug/l	0.00
Spiked Amount	50.000		Recovery	=	94.62%	
36) Dibromofluoromethane	7.68	113	524574	51.74	ug/l	0.00
Spiked Amount	50.000		Recovery	=	103.48%	
51) Toluene-d8	10.19	98	2125416	53.54	ug/l	0.00
Spiked Amount	50.000		Recovery	=	107.08%	
63) 4-Bromofluorobenzene	12.52	95	710751	50.44	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.88%	

Target Compounds

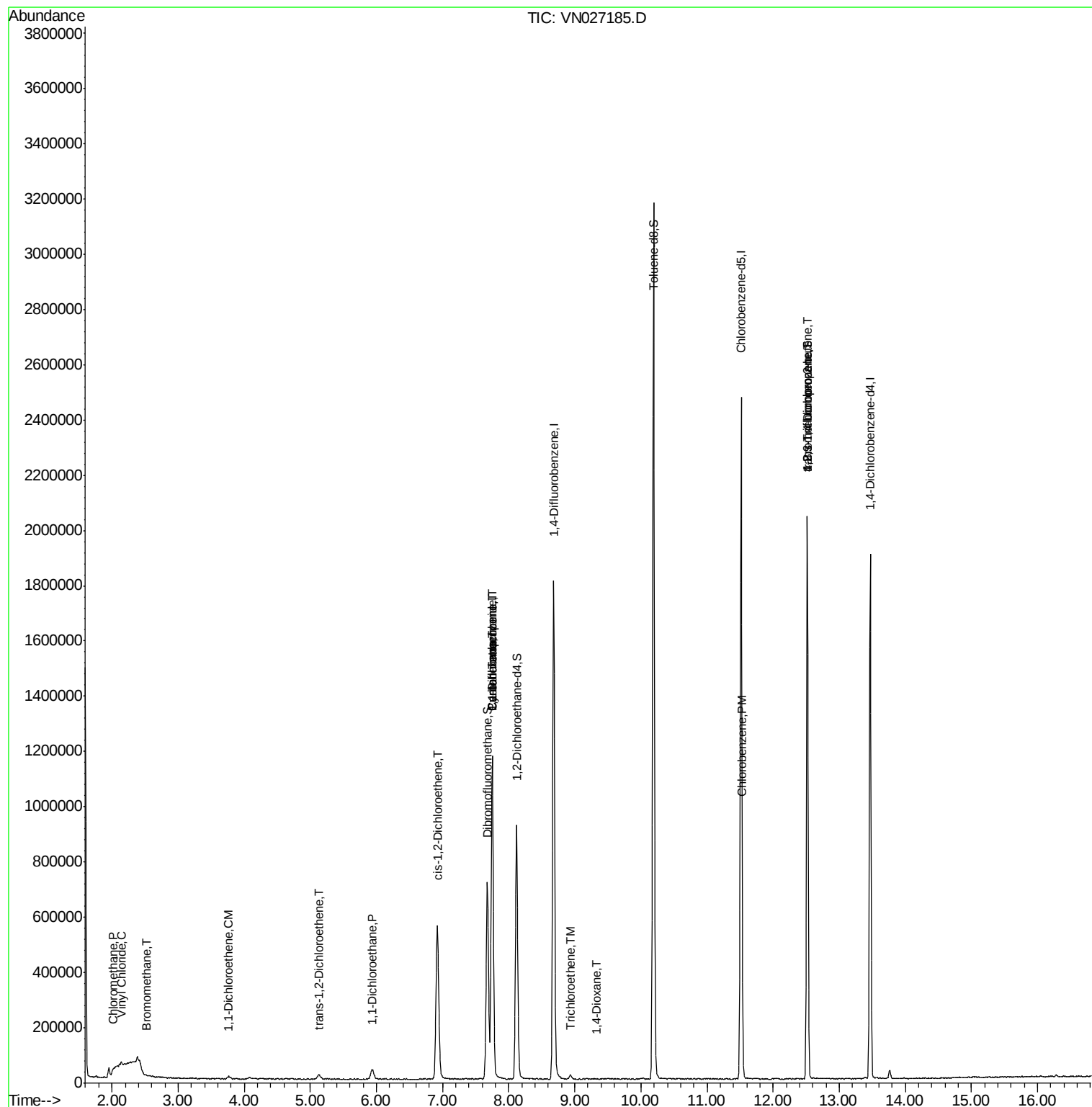
						Qvalue
4) Chloromethane	2.00	50	3046	1.38	ug/l	94
5) Vinyl Chloride	2.14	62	10238	0.88	ug/l	98
6) Bromomethane	2.53	94	501	1.68	ug/l #	72
13) 1,1-Dichloroethene	3.77	96	3607	0.34	ug/l #	68
22) trans-1,2-Dichloroethene	5.12	96	7571	0.66	ug/l #	80
25) 1,1-Dichloroethane	5.93	63	55991	2.15	ug/l	97
28) cis-1,2-Dichloroethene	6.92	96	345812	26.33	ug/l	90
32) Cyclohexane	7.75	56	26273	0.21	ug/l #	13
37) 1,1-Dichloropropene	7.75	75	83364	4.87	ug/l #	52
38) Ethyl Acetate	7.01	43	80	Below Cal	#	1
39) Carbon Tetrachloride	7.75	117	93924	5.83	ug/l #	16
45) Trichloroethene	8.93	130	4327	0.43	ug/l	80
50) 1,4-Dioxane	9.32	88	64	0.40	ug/l #	1
66) Chlorobenzene	11.54	112	7170	0.25	ug/l	91
76) 1,1,1,2,2-Tetrachloroethane	12.60	83	104	Below Cal	#	36
77) 1,2,3-Trichloropropane	12.52	75	400146	30.86	ug/l #	1
82) trans-1,4-Dichloro-2-buten	12.52	75	400146	75.81	ug/l #	4
93) 1,2-Dibromo-3-Chloropropan	14.42	75	68	Below Cal	#	9

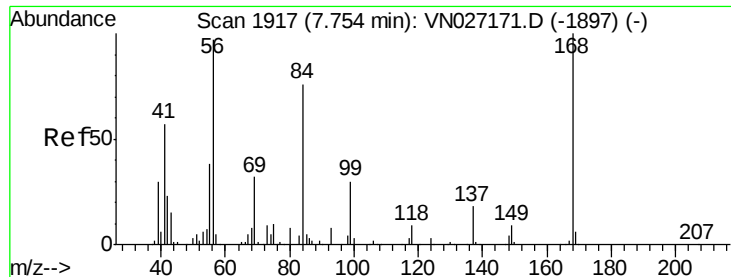
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VN027185.D

Acq: 16 Sep 2015 2:06

Instrument :

MSVOA_N

ClientSampleId :

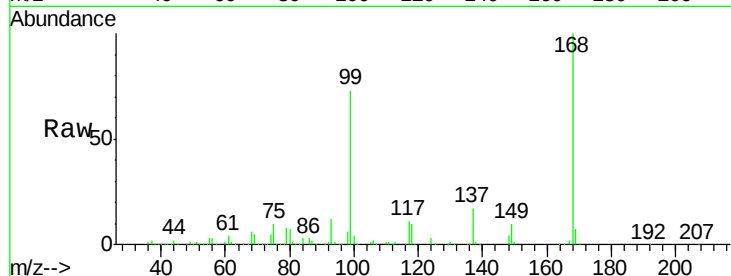
S39-0102

Tot Ion:168 Resp: 824552

Ion Ratio Lower Upper

168 100

99 72.6 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

400000

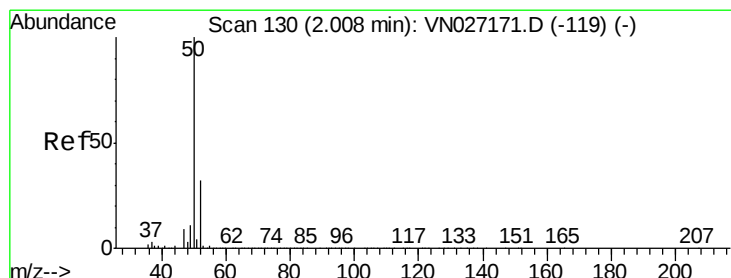
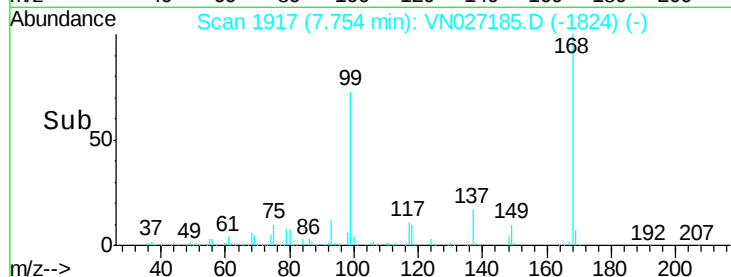
300000

200000

100000

0

Time-->



#4

Chloromethane

Concen: 1.38 ug/l

RT: 2.00 min Scan# 129

Delta R.T. -0.00 min

Lab File: VN027185.D

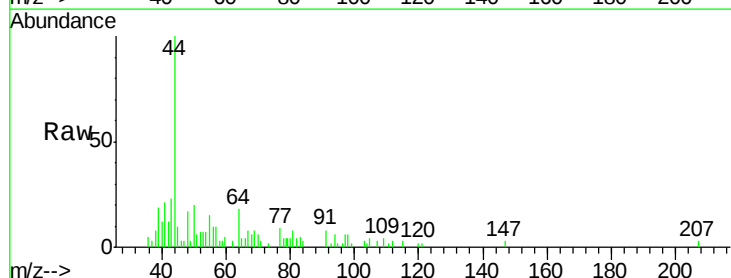
Acq: 16 Sep 2015 2:06

Tgt Ion: 50 Resp: 3046

Ion Ratio Lower Upper

50 100

52 35.6 25.9 38.9



Abundance Ion 49.90 (49.60 to 50.60): VN

Ion 51.90 (51.60 to 52.60): VN

2.00

2000

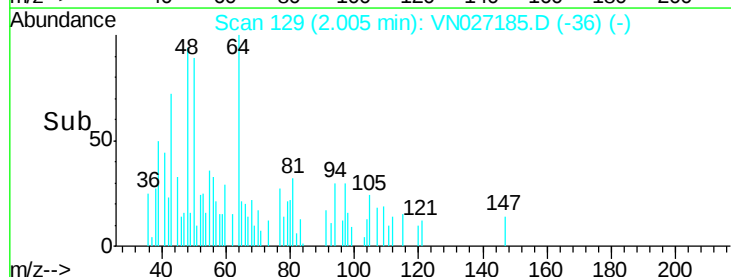
1500

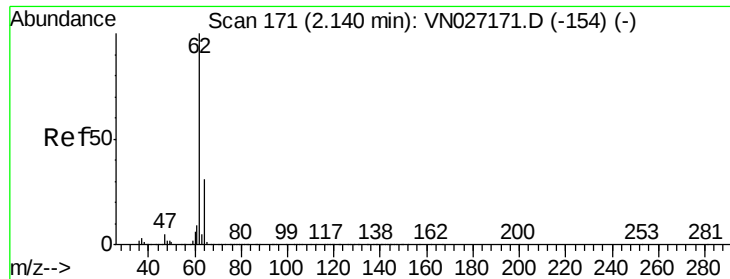
1000

500

0

Time-->





#5

Vinyl Chloride

Concen: 0.88 ug/l

RT: 2.14 min Scan# 172

Delta R.T. 0.00 min

Lab File: VN027185.D

Acq: 16 Sep 2015 2:06

Instrument :

MSVOA_N

ClientSampleId :

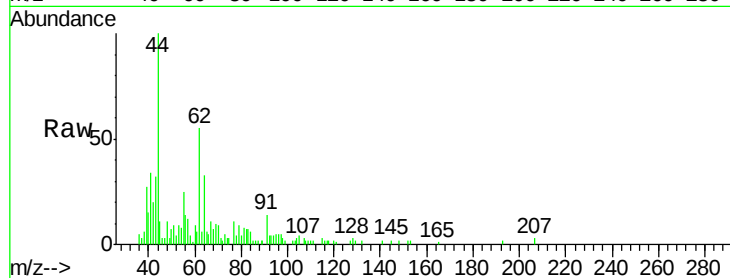
S39-0102

Tot Ion: 62 Resp: 10238

Ion Ratio Lower Upper

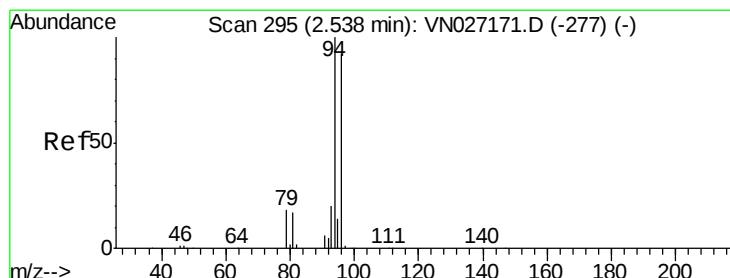
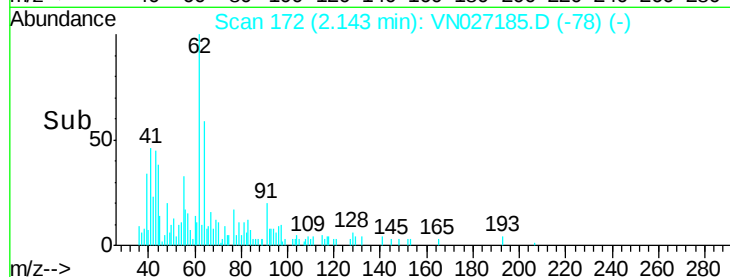
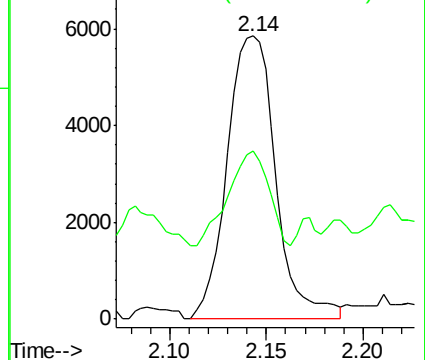
62 100

64 33.6 25.9 38.9



Abundance Ion 61.90 (61.60 to 62.60): VNC

Ion 63.90 (63.60 to 64.60): VNC



#6

Bromomethane

Concen: 1.68 ug/l

RT: 2.53 min Scan# 293

Delta R.T. -0.01 min

Lab File: VN027185.D

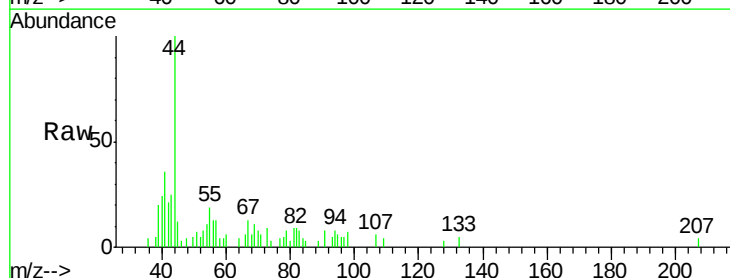
Acq: 16 Sep 2015 2:06

Tgt Ion: 94 Resp: 501

Ion Ratio Lower Upper

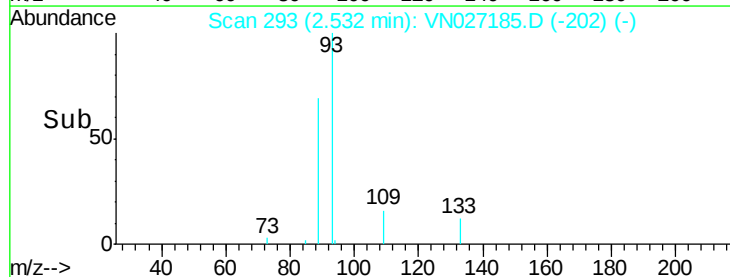
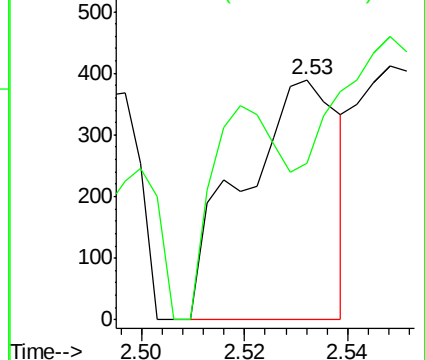
94 100

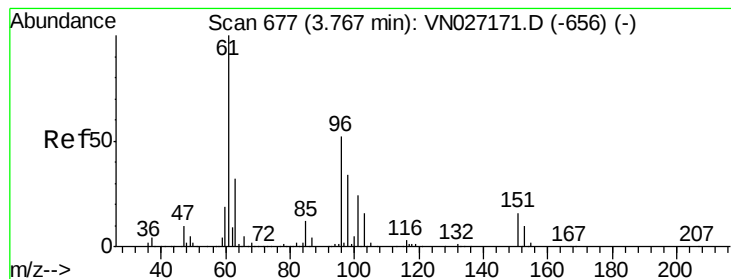
96 65.4 73.4 110.2#



Abundance Ion 93.90 (93.60 to 94.60): VNC

Ion 95.90 (95.60 to 96.60): VNC





#13

1,1-Dichloroethene

Concen: 0.34 ug/l

RT: 3.77 min Scan# 678

Delta R.T. 0.00 min

Lab File: VN027185.D

Acq: 16 Sep 2015 2:06

Instrument :

MSVOA_N

ClientSampled :

S39-0102

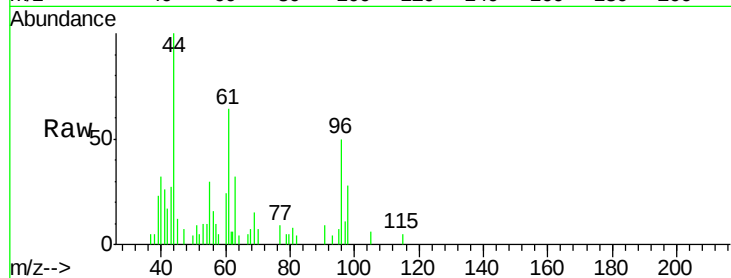
Tot Ion: 96 Resp: 3607

Ion Ratio Lower Upper

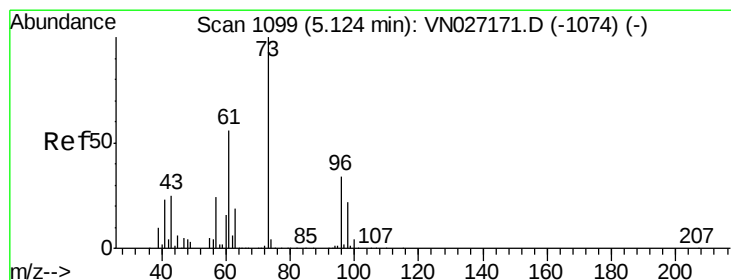
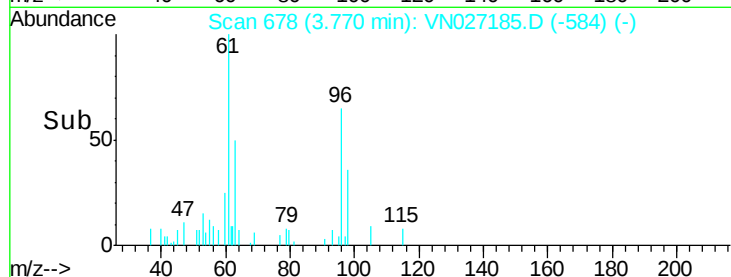
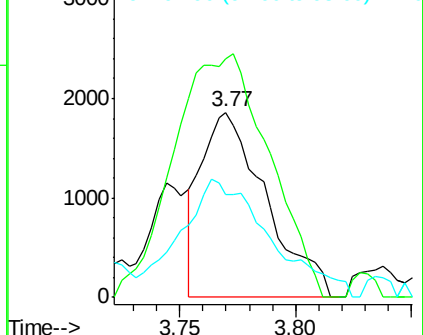
96 100

61 129.0 143.8 215.8#

98 46.1 50.3 75.5#



Abundance Ion 95.90 (95.60 to 96.60): VNO
Ion 60.90 (60.60 to 61.60): VNO
Ion 97.90 (97.60 to 98.60): VNO



#22

trans-1,2-Dichloroethene

Concen: 0.66 ug/l

RT: 5.12 min Scan# 1099

Delta R.T. 0.00 min

Lab File: VN027185.D

Acq: 16 Sep 2015 2:06

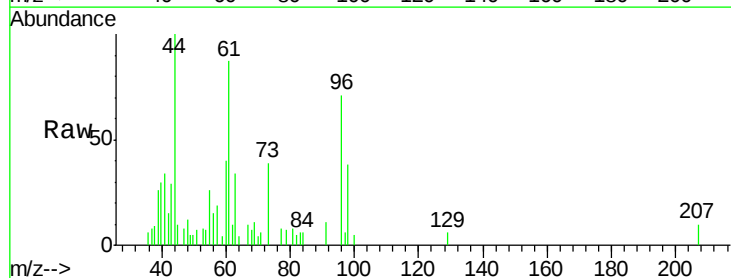
Tgt Ion: 96 Resp: 7571

Ion Ratio Lower Upper

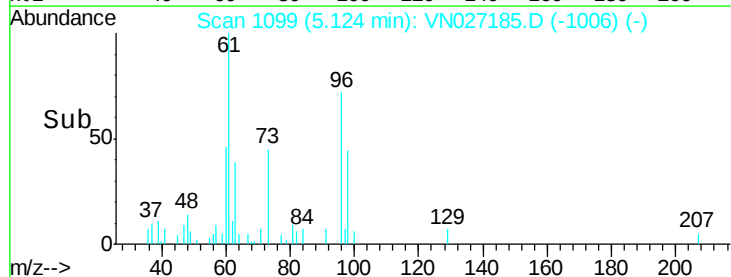
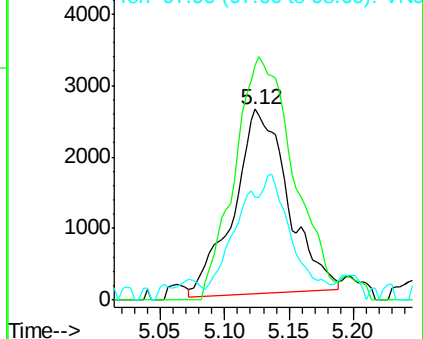
96 100

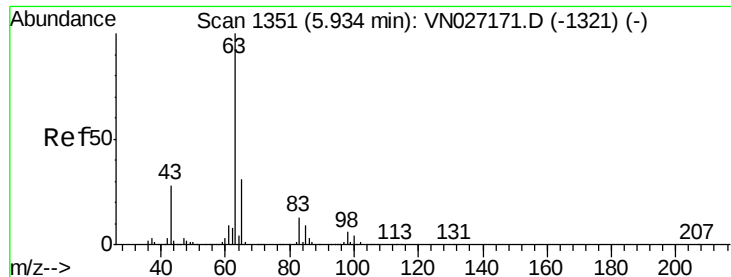
61 130.6 126.6 189.8

98 46.7 47.4 71.2#



Abundance Ion 95.90 (95.60 to 96.60): VNO
Ion 60.90 (60.60 to 61.60): VNO
Ion 97.90 (97.60 to 98.60): VNO





#25

1,1-Dichloroethane

Concen: 2.15 ug/l

RT: 5.93 min Scan# 1351

Delta R.T. 0.00 min

Lab File: VN027185.D

Acq: 16 Sep 2015 2:06

Instrument :

MSVOA_N

ClientSampleId :

S39-0102

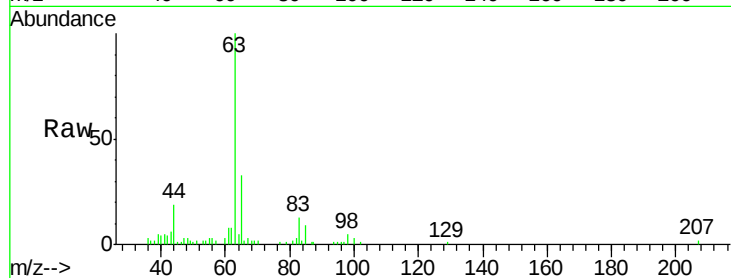
Tot Ion: 63 Resp: 55991

Ion Ratio Lower Upper

63 100

98 4.3 2.8 8.3

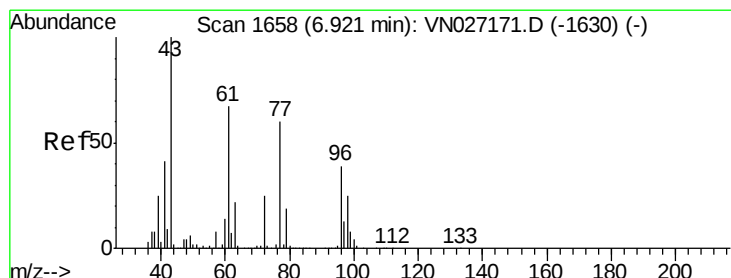
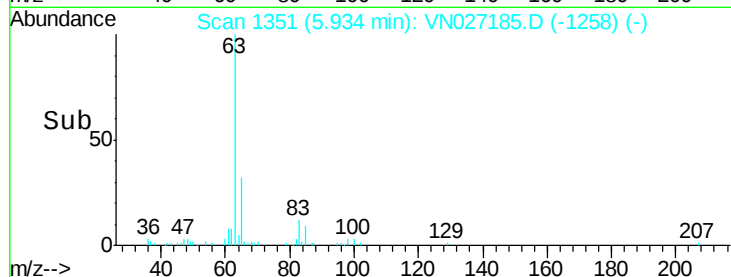
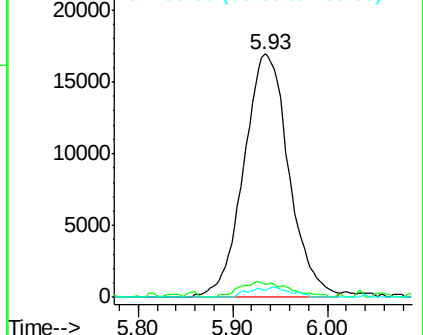
100 2.8 1.7 5.0



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: 26.33 ug/l

RT: 6.92 min Scan# 1658

Delta R.T. 0.00 min

Lab File: VN027185.D

Acq: 16 Sep 2015 2:06

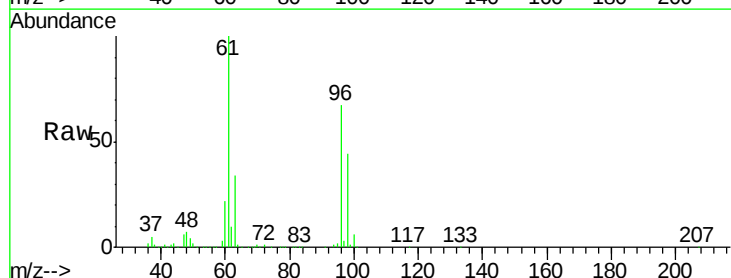
Tgt Ion: 96 Resp: 345812

Ion Ratio Lower Upper

96 100

61 147.3 0.0 329.2

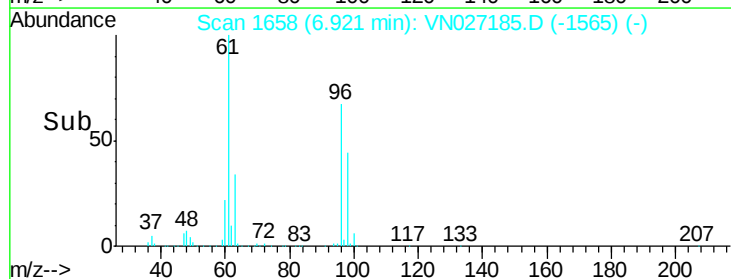
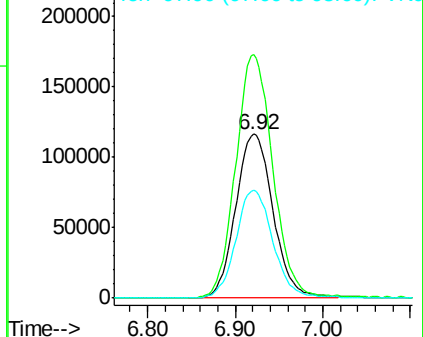
98 65.4 0.0 126.0

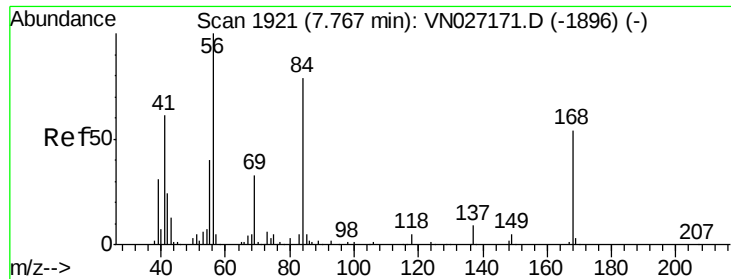


Abundance Ion 95.90 (95.60 to 96.60): VN0

Ion 60.90 (60.60 to 61.60): VN0

Ion 97.90 (97.60 to 98.60): VN0

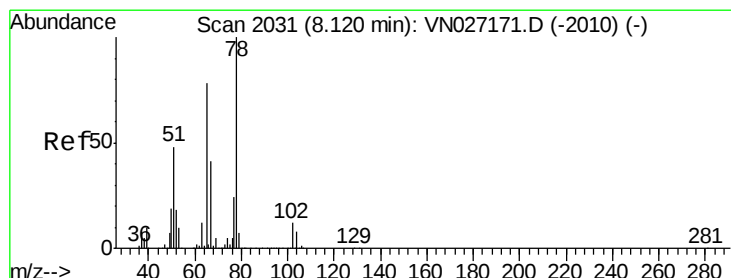
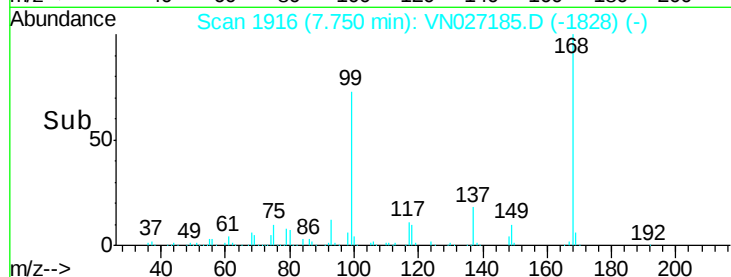
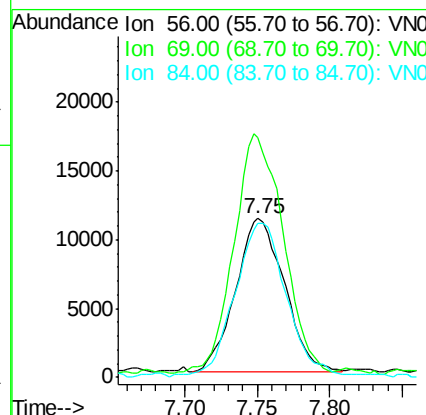
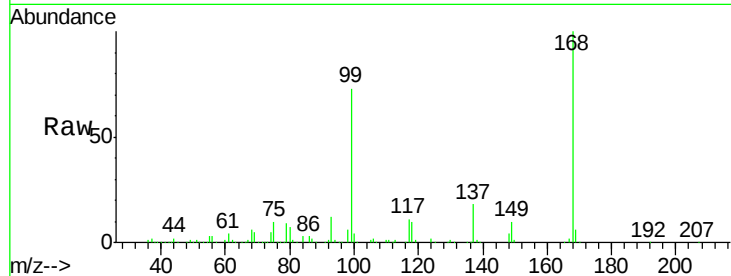




#32
Cyclohexane
Concen: 0.21 ug/l
RT: 7.75 min Scan# 1916
Delta R.T. -0.02 min
Lab File: VN027185.D
Acq: 16 Sep 2015 2:06

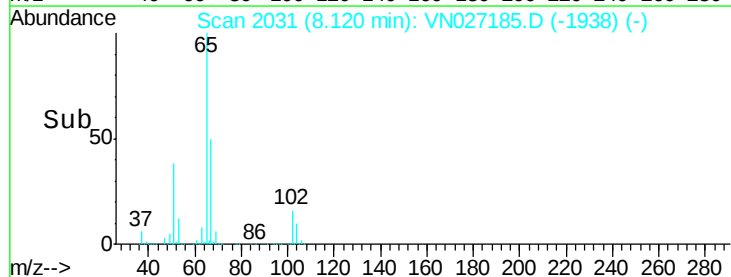
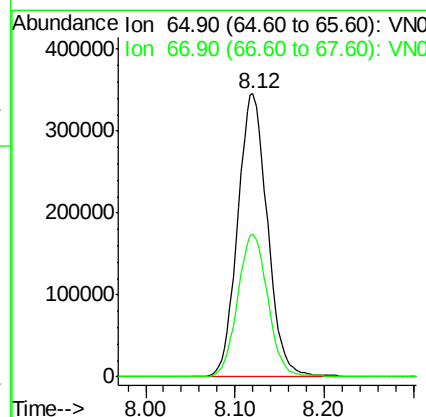
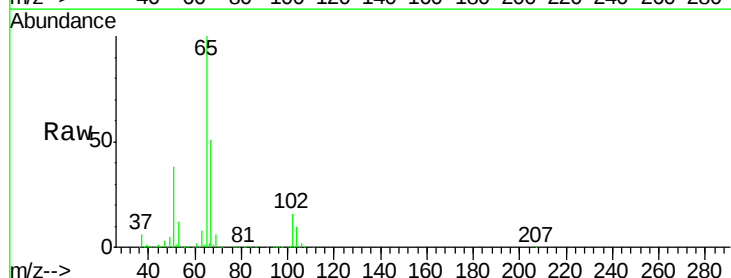
Instrument :
MSVOA_N
ClientSampled :
S39-0102

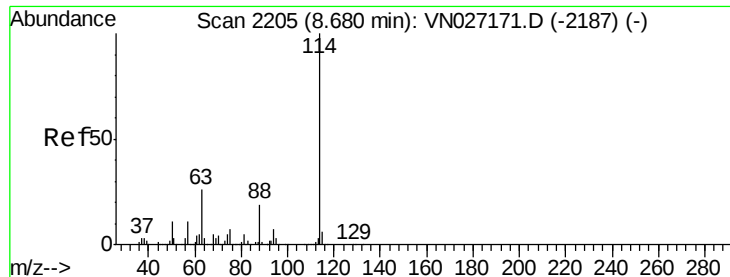
Tot Ion: 56 Resp: 26273
Ion Ratio Lower Upper
56 100
69 150.9 23.0 34.4#
84 98.1 57.8 86.8#



#34
1,2-Dichloroethane-d4
Concen: 47.31 ug/l
RT: 8.12 min Scan# 2031
Delta R.T. 0.00 min
Lab File: VN027185.D
Acq: 16 Sep 2015 2:06

Tgt Ion: 65 Resp: 799213
Ion Ratio Lower Upper
65 100
67 51.0 0.0 110.6

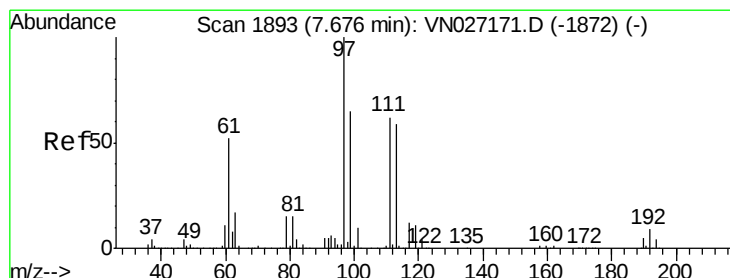
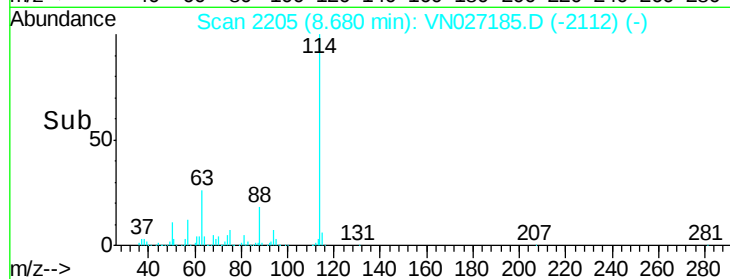
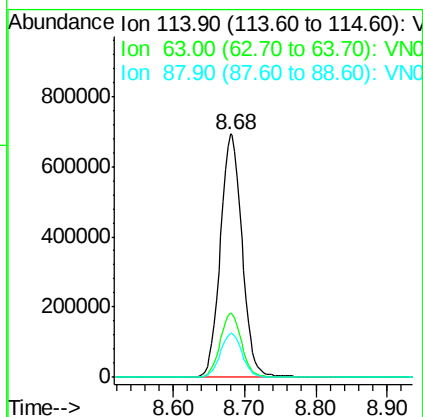
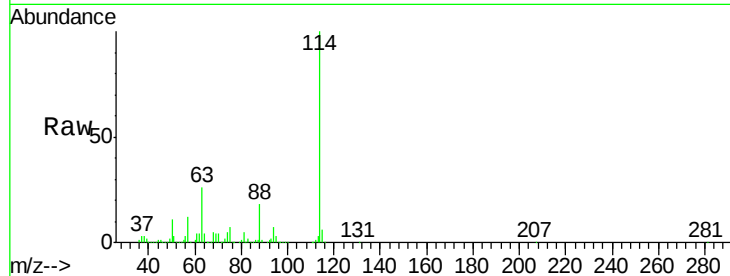




#35
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 8.68 min Scan# 2205
 Delta R.T. 0.00 min
 Lab File: VN027185.D
 Acq: 16 Sep 2015 2:06

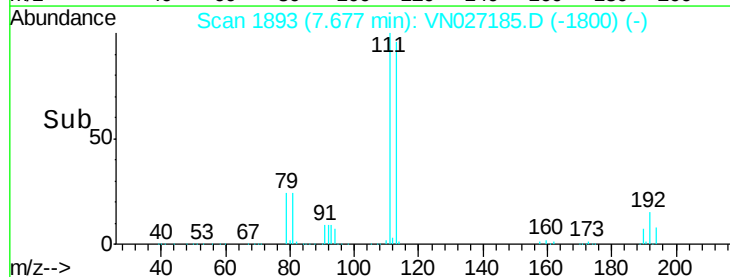
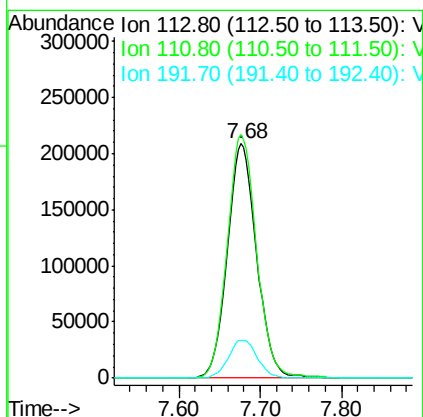
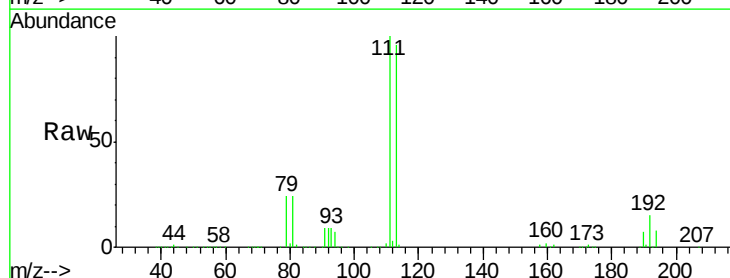
Instrument :
 MSVOA_N
 ClientSampleId :
 S39-0102

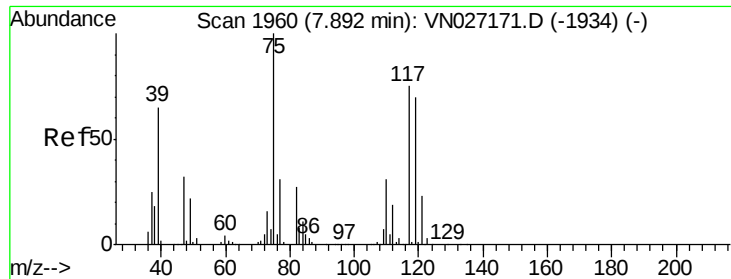
Tot Ion:114 Resp: 1462705
 Ion Ratio Lower Upper
 114 100
 63 26.4 0.0 48.8
 88 18.2 0.0 32.2



#36
 Dibromofluoromethane
 Concen: 51.74 ug/l
 RT: 7.68 min Scan# 1893
 Delta R.T. 0.00 min
 Lab File: VN027185.D
 Acq: 16 Sep 2015 2:06

Tgt Ion:113 Resp: 524574
 Ion Ratio Lower Upper
 113 100
 111 104.7 83.0 124.4
 192 16.3 14.1 21.1

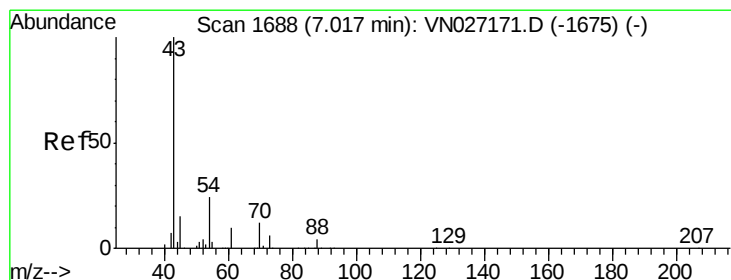
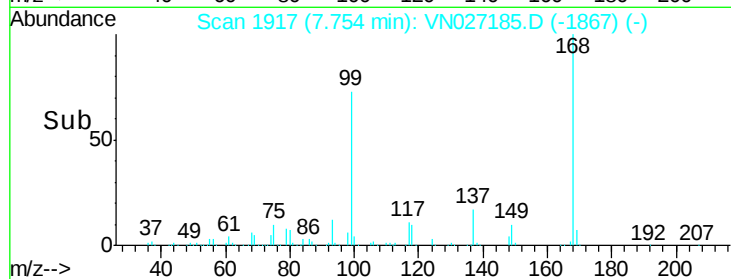
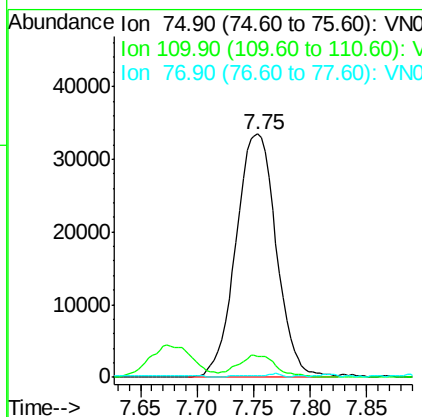
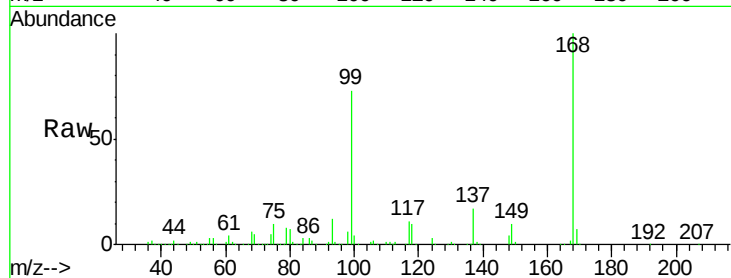




#37
 1,1-Dichloropropene
 Concen: 4.87 ug/l
 RT: 7.75 min Scan# 1917
 Delta R.T. -0.14 min
 Lab File: VN027185.D
 Acq: 16 Sep 2015 2:06

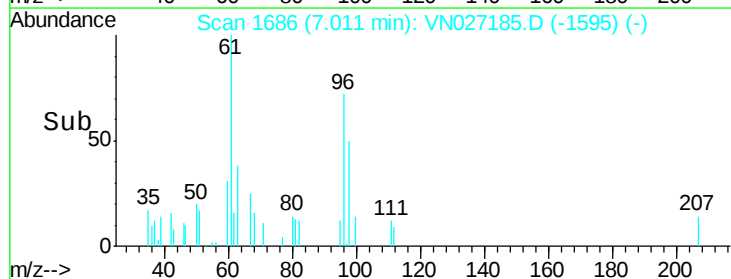
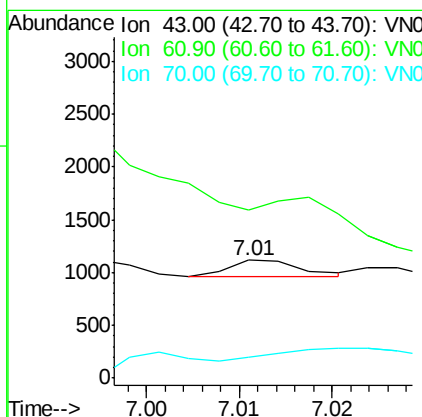
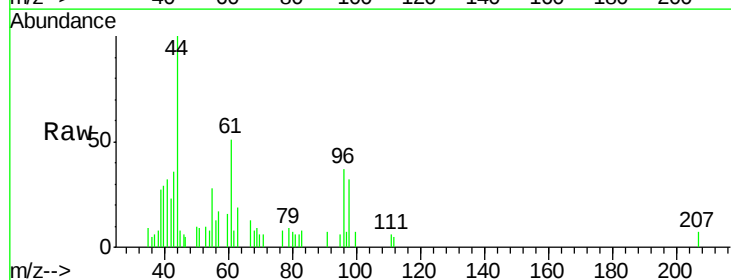
Instrument :
 MSVOA_N
 ClientSampled :
 S39-0102

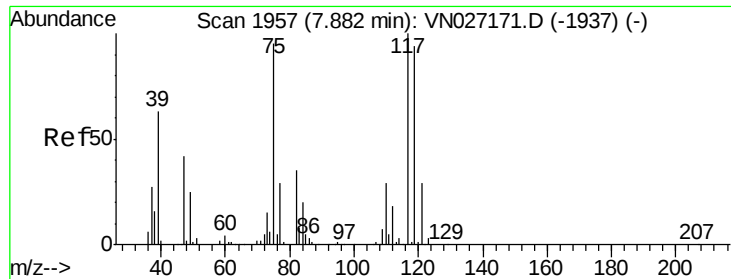
Tot Ion: 75 Resp: 83364
 Ion Ratio Lower Upper
 75 100
 110 8.8 15.9 47.7#
 77 0.7 24.9 37.3#



#38
 Ethyl Acetate
 Concen: Below Cal
 RT: 7.01 min Scan# 1686
 Delta R.T. -0.01 min
 Lab File: VN027185.D
 Acq: 16 Sep 2015 2:06

Tgt Ion: 43 Resp: 80
 Ion Ratio Lower Upper
 43 100
 61 0.0 10.2 15.4#
 70 377.5 7.4 11.0#





#39

Carbon Tetrachloride

Concen: 5.83 ug/l

RT: 7.75 min Scan# 1916

Delta R.T. -0.13 min

Lab File: VN027185.D

Acq: 16 Sep 2015 2:06

Instrument :

MSVOA_N

ClientSampled :

S39-0102

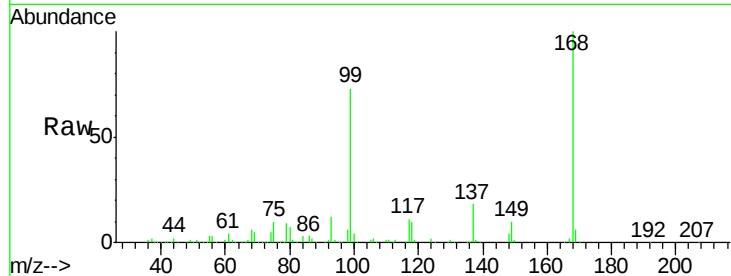
Tot Ion:117 Resp: 93924

Ion Ratio Lower Upper

117 100

119 4.5 75.3 112.9#

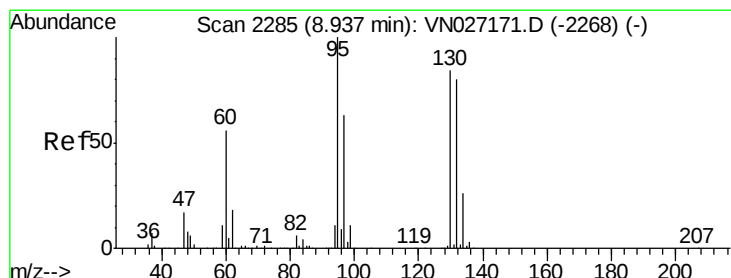
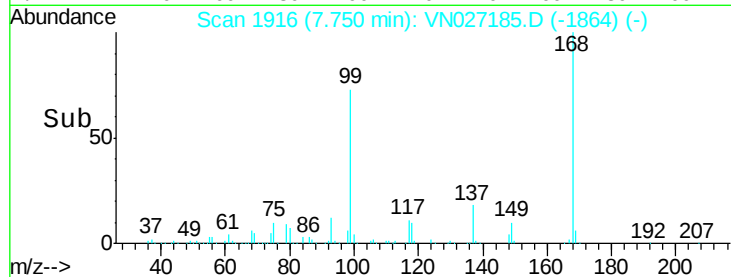
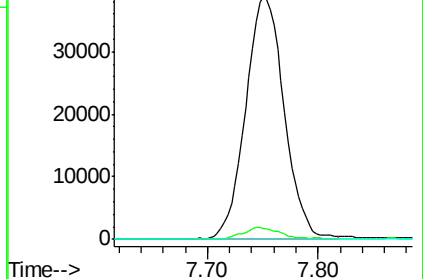
121 0.0 23.8 35.8#



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



#45

Trichloroethene

Concen: 0.43 ug/l

RT: 8.93 min Scan# 2283

Delta R.T. -0.01 min

Lab File: VN027185.D

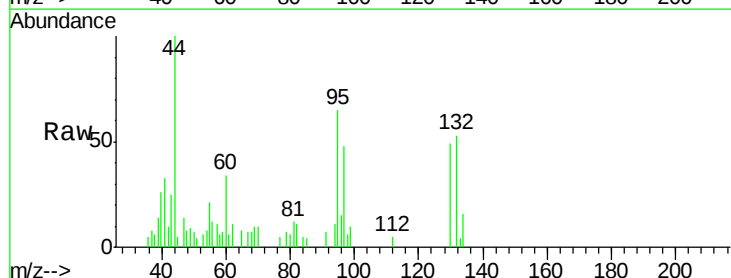
Acq: 16 Sep 2015 2:06

Tgt Ion:130 Resp: 4327

Ion Ratio Lower Upper

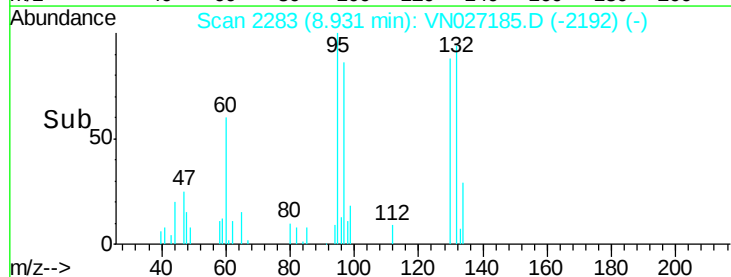
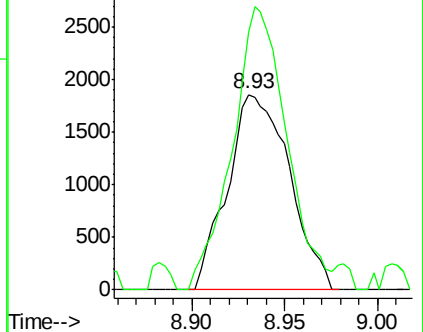
130 100

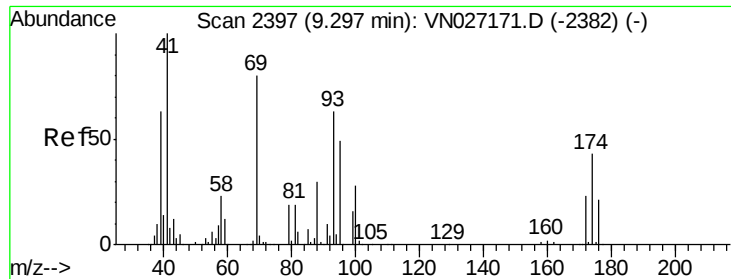
95 131.9 0.0 222.2



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VN0

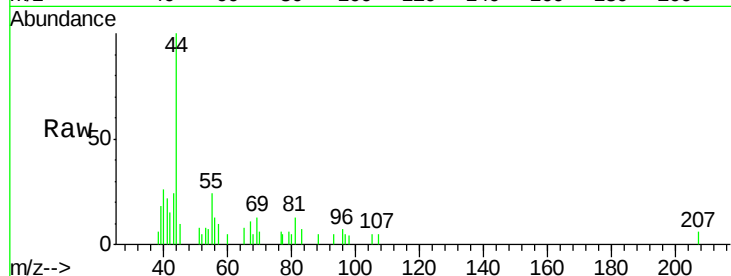




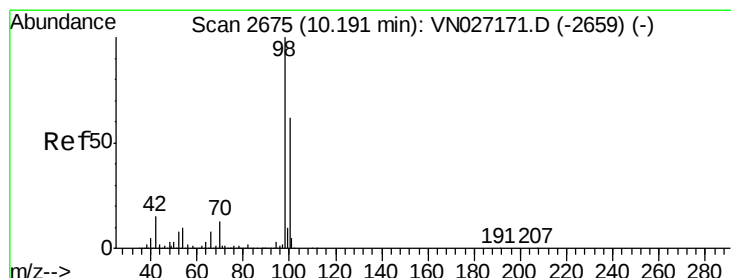
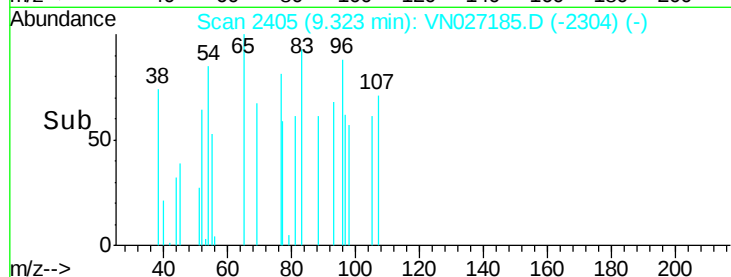
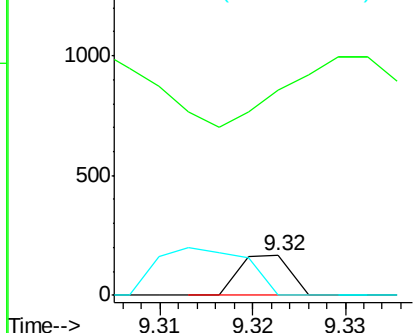
#50
1,4-Dioxane
Concen: 0.40 ug/l
RT: 9.32 min Scan# 2405
Delta R.T. 0.03 min
Lab File: VN027185.D
Acq: 16 Sep 2015 2:06

Instrument :
MSVOA_N
ClientSampled :
S39-0102

Tot Ion: 88 Resp: 64
Ion Ratio Lower Upper
88 100
43 453.1 27.6 41.4#
58 210.9 63.1 94.7#

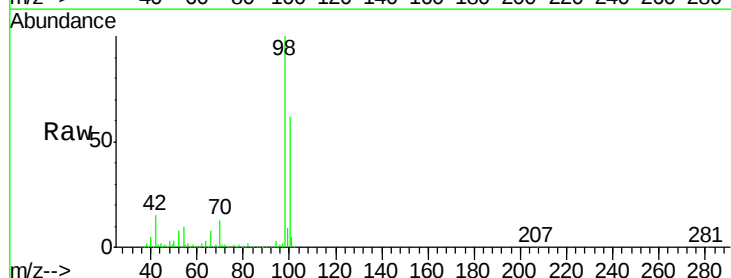


Abundance Ion 88.00 (87.70 to 88.70): VN0
Ion 43.00 (42.70 to 43.70): VN0
Ion 58.00 (57.70 to 58.70): VN0

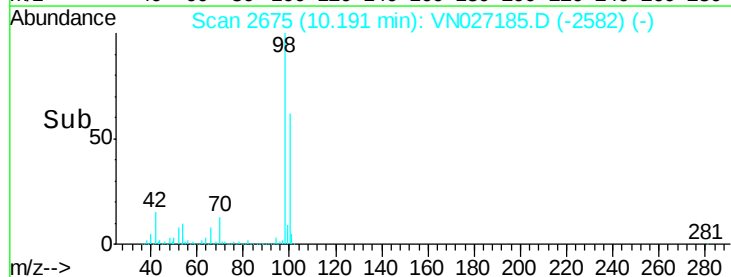
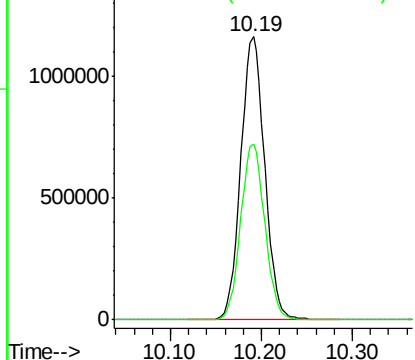


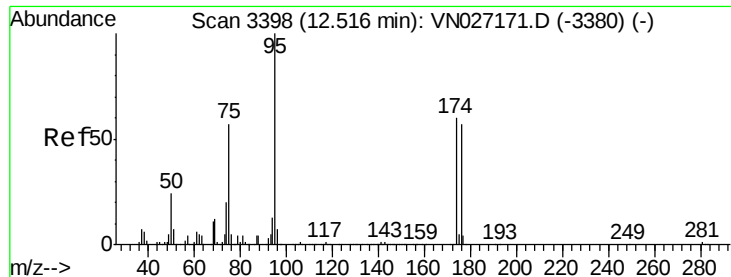
#51
Toluene-d8
Concen: 53.54 ug/l
RT: 10.19 min Scan# 2675
Delta R.T. 0.00 min
Lab File: VN027185.D
Acq: 16 Sep 2015 2:06

Tgt Ion: 98 Resp: 2125416
Ion Ratio Lower Upper
98 100
100 62.7 50.5 75.7



Abundance Ion 98.00 (97.70 to 98.70): VN0
Ion 100.00 (99.70 to 100.70): VN0

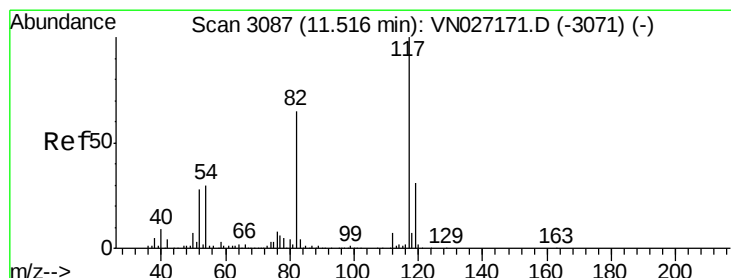
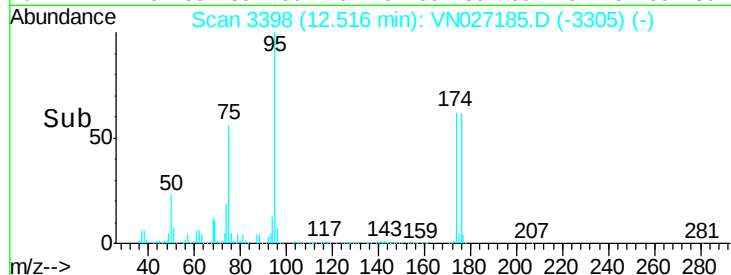
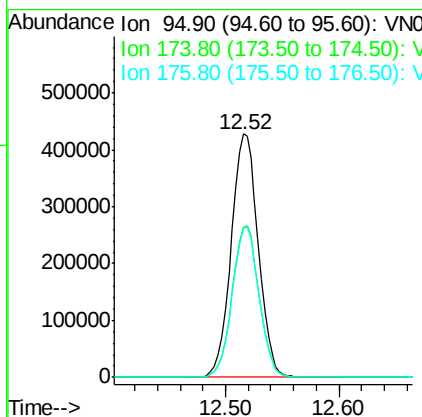
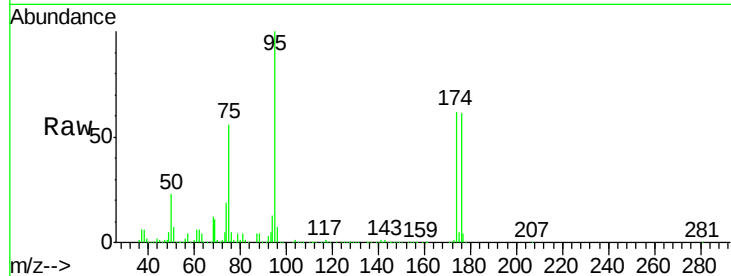




#63
4-Bromofluorobenzene
Concen: 50.44 ug/l
RT: 12.52 min Scan# 3398
Delta R.T. 0.00 min
Lab File: VN027185.D
Acq: 16 Sep 2015 2:06

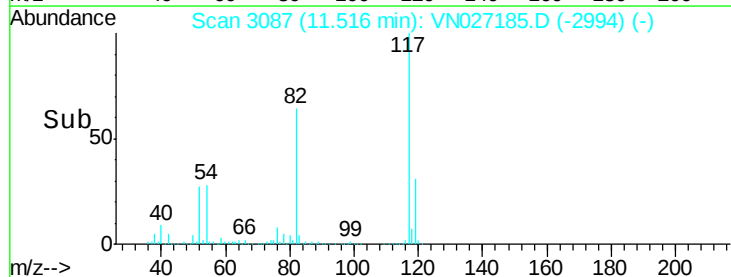
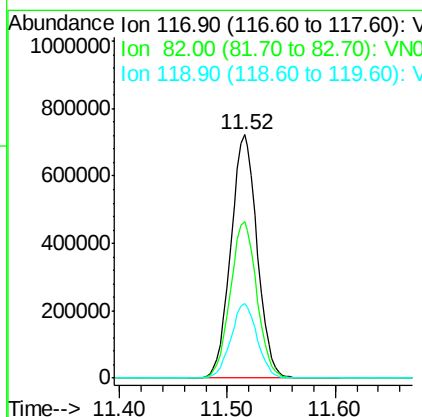
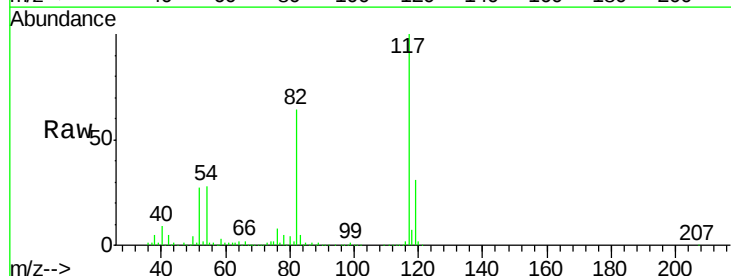
Instrument :
MSVOA_N
ClientSampled :
S39-0102

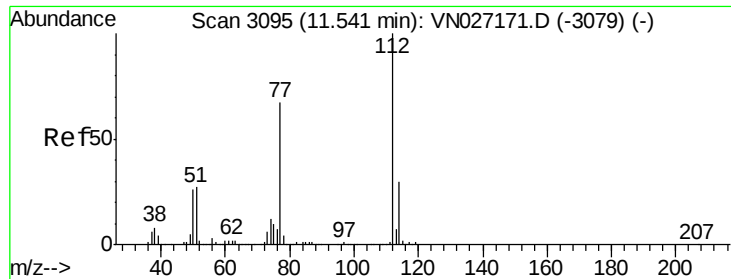
Tot Ion: 95 Resp: 710751
Ion Ratio Lower Upper
95 100
174 62.2 0.0 137.0
176 60.7 0.0 130.8



#64
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 11.52 min Scan# 3087
Delta R.T. 0.00 min
Lab File: VN027185.D
Acq: 16 Sep 2015 2:06

Tgt Ion: 117 Resp: 1232015
Ion Ratio Lower Upper
117 100
82 64.1 49.6 74.4
119 30.7 24.6 36.8





#66

Chlorobenzene

Concen: 0.25 ug/l

RT: 11.54 min Scan# 3095

Delta R.T. 0.00 min

Lab File: VN027185.D

Acq: 16 Sep 2015 2:06

Instrument :

MSVOA_N

ClientSampleId :

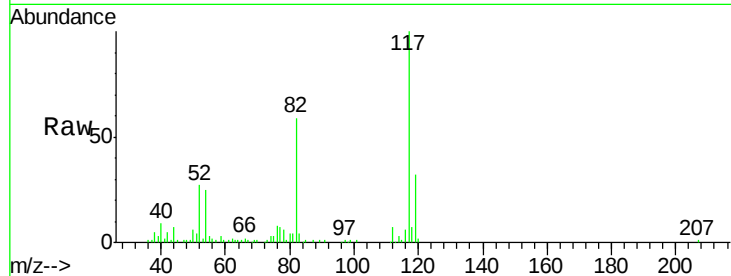
S39-0102

Tot Ion:112 Resp: 7170

Ion Ratio Lower Upper

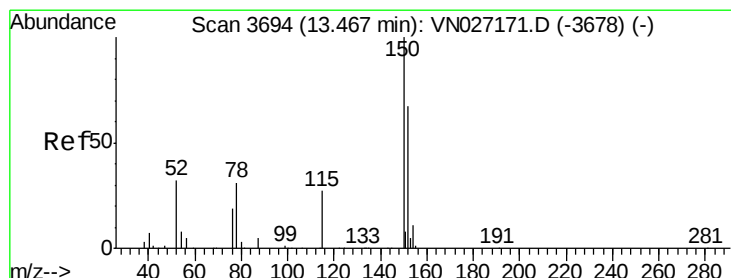
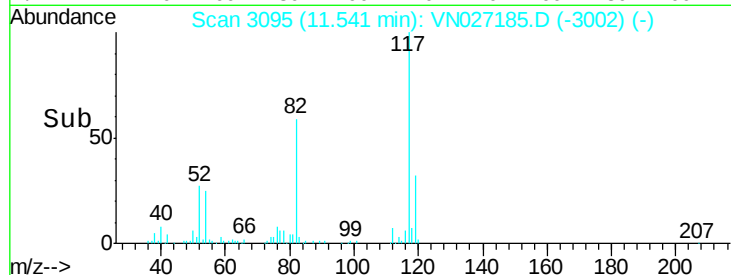
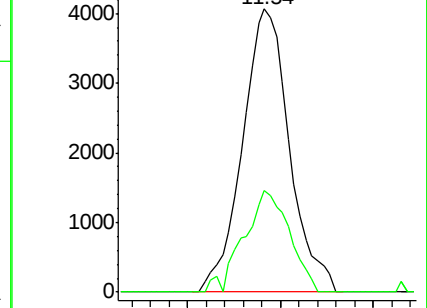
112 100

114 35.8 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: VN027185.D

Acq: 16 Sep 2015 2:06

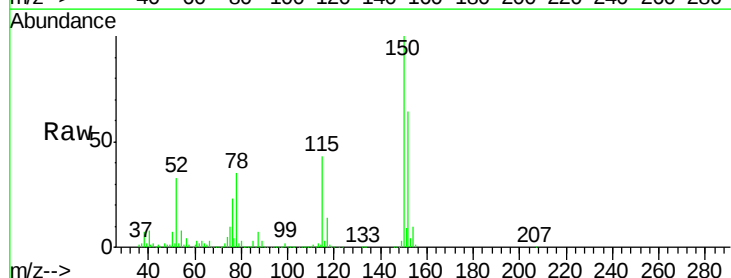
Tgt Ion:152 Resp: 428977

Ion Ratio Lower Upper

152 100

115 68.3 30.8 92.3

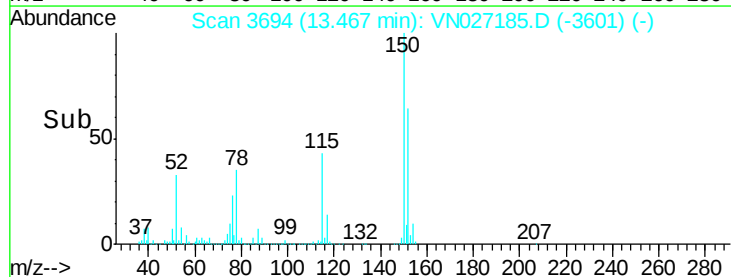
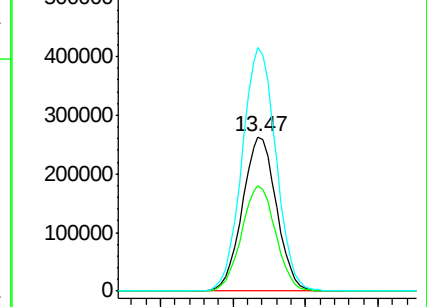
150 157.3 0.0 345.0

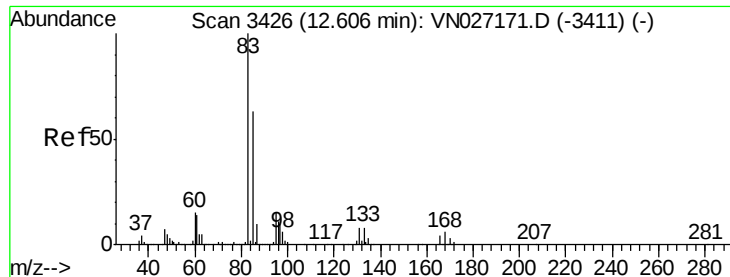


Abundance Ion 151.90 (151.60 to 152.60): V

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: 12.60 min Scan# 3423

Delta R.T. -0.01 min

Lab File: VN027185.D

Acq: 16 Sep 2015 2:06

Instrument :

MSVOA_N

ClientSampled :

S39-0102

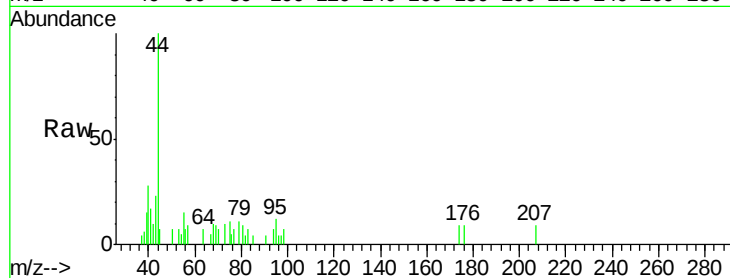
Tot Ion: 83 Resp: 104

Ion Ratio Lower Upper

83 100

131 0.0 4.1 12.3#

85 118.3 31.9 95.7#

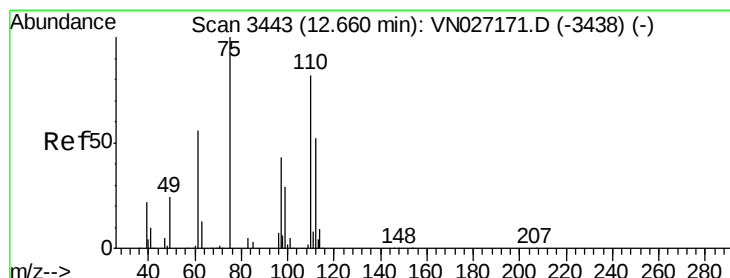
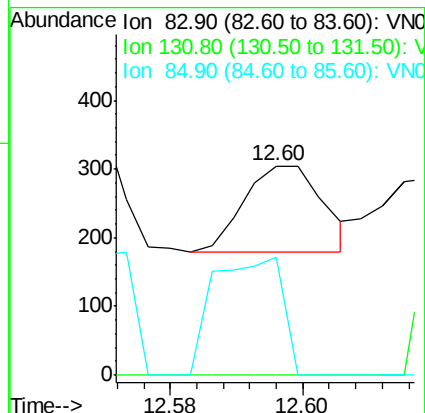
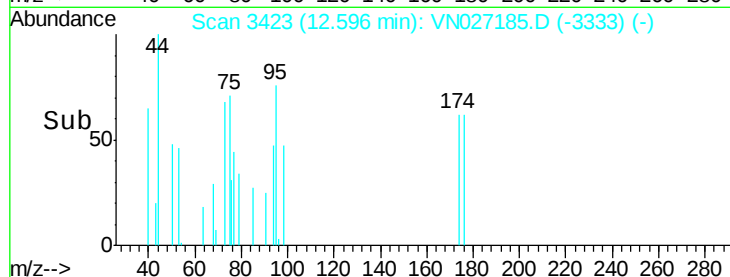


Abundance Ion 82.90 (82.60 to 83.60): VN027171.D (-3411) (-)

Ion 130.80 (130.50 to 131.50): VN027171.D (-3411) (-)

Ion 84.90 (84.60 to 85.60): VN027171.D (-3411) (-)

Time-->



#77

1,2,3-Trichloropropane

Concen: 30.86 ug/l

RT: 12.52 min Scan# 3398

Delta R.T. -0.14 min

Lab File: VN027185.D

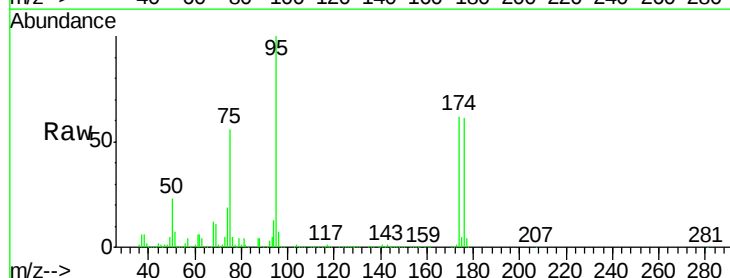
Acq: 16 Sep 2015 2:06

Tgt Ion: 75 Resp: 400146

Ion Ratio Lower Upper

75 100

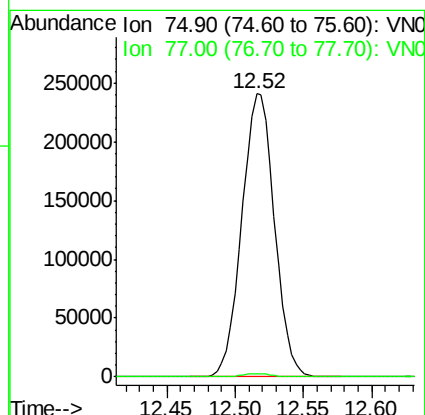
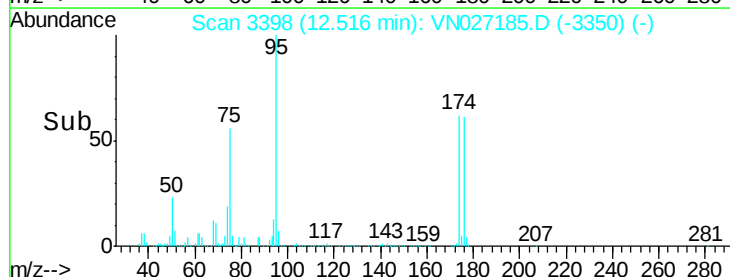
77 1.2 103.1 309.3#

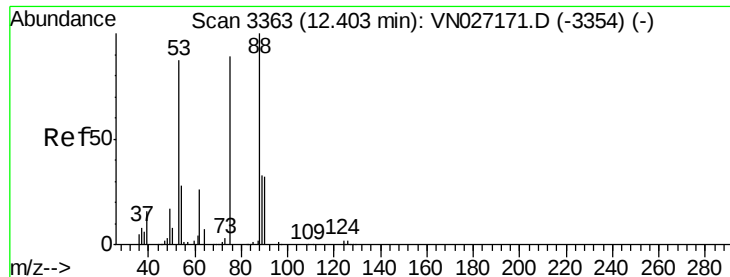


Abundance Ion 74.90 (74.60 to 75.60): VN027185.D (-3350) (-)

Ion 77.00 (76.70 to 77.70): VN027185.D (-3350) (-)

Time-->





#82

trans-1,4-Dichloro-2-butene

Concen: 75.81 ug/l

RT: 12.52 min Scan# 3398

Delta R.T. 0.11 min

Lab File: VN027185.D

Acq: 16 Sep 2015 2:06

Instrument :

MSVOA_N

ClientSampleId :

S39-0102

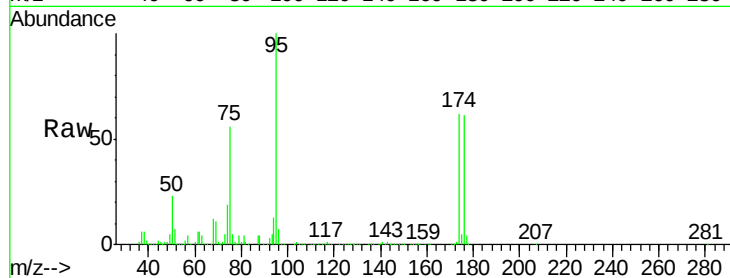
Tot Ion: 75 Resp: 400146

Ion Ratio Lower Upper

75 100

53 0.0 92.9 139.3#

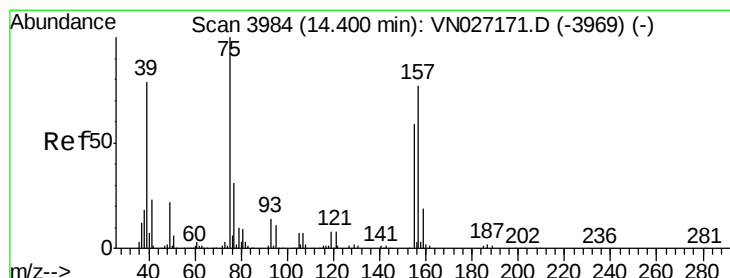
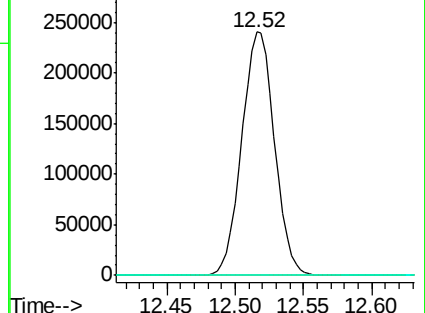
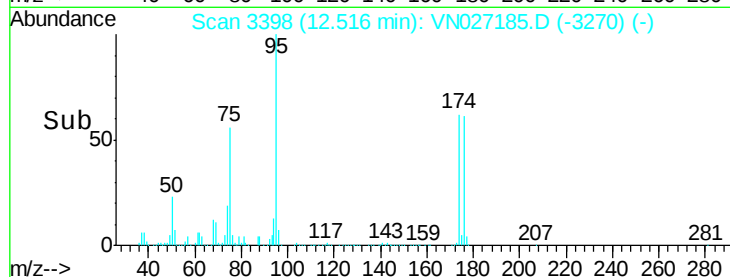
89 0.0 34.2 51.4#



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: 14.42 min Scan# 3990

Delta R.T. 0.02 min

Lab File: VN027185.D

Acq: 16 Sep 2015 2:06

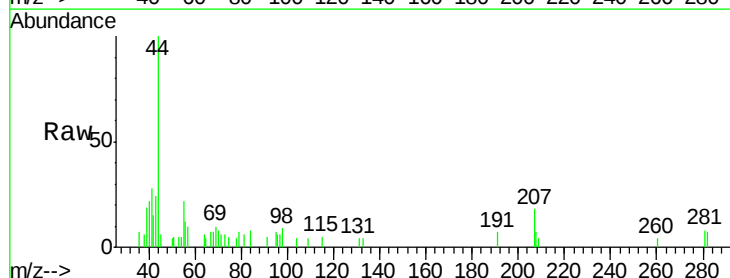
Tgt Ion: 75 Resp: 68

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

