

Data Path : W:\HPCHEM1\MSVOA N\DATA\VN091515\
 Data File : VN027192.D
 Acq On : 16 Sep 2015 5:20
 Operator : MD\FY
 Sample : G3629-08
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 26 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 S39-0099

Quant Time: Sep 16 05:38:30 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	798917	50.00	ug/l	0.00
35) 1,4-Difluorobenzene	8.68	114	1422794	50.00	ug/l	0.00
64) Chlorobenzene-d5	11.52	117	1197234	50.00	ug/l	0.00
73) 1,4-Dichlorobenzene-d4	13.47	152	416325	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	769351	47.00	ug/l	0.00
Spiked Amount			Recovery	=	94.00%	
36) Dibromofluoromethane	7.68	113	512385	51.95	ug/l	0.00
Spiked Amount			Recovery	=	103.90%	
51) Toluene-d8	10.19	98	2064324	53.46	ug/l	0.00
Spiked Amount			Recovery	=	106.92%	
63) 4-Bromofluorobenzene	12.52	95	693164	50.57	ug/l	0.00
Spiked Amount			Recovery	=	101.14%	

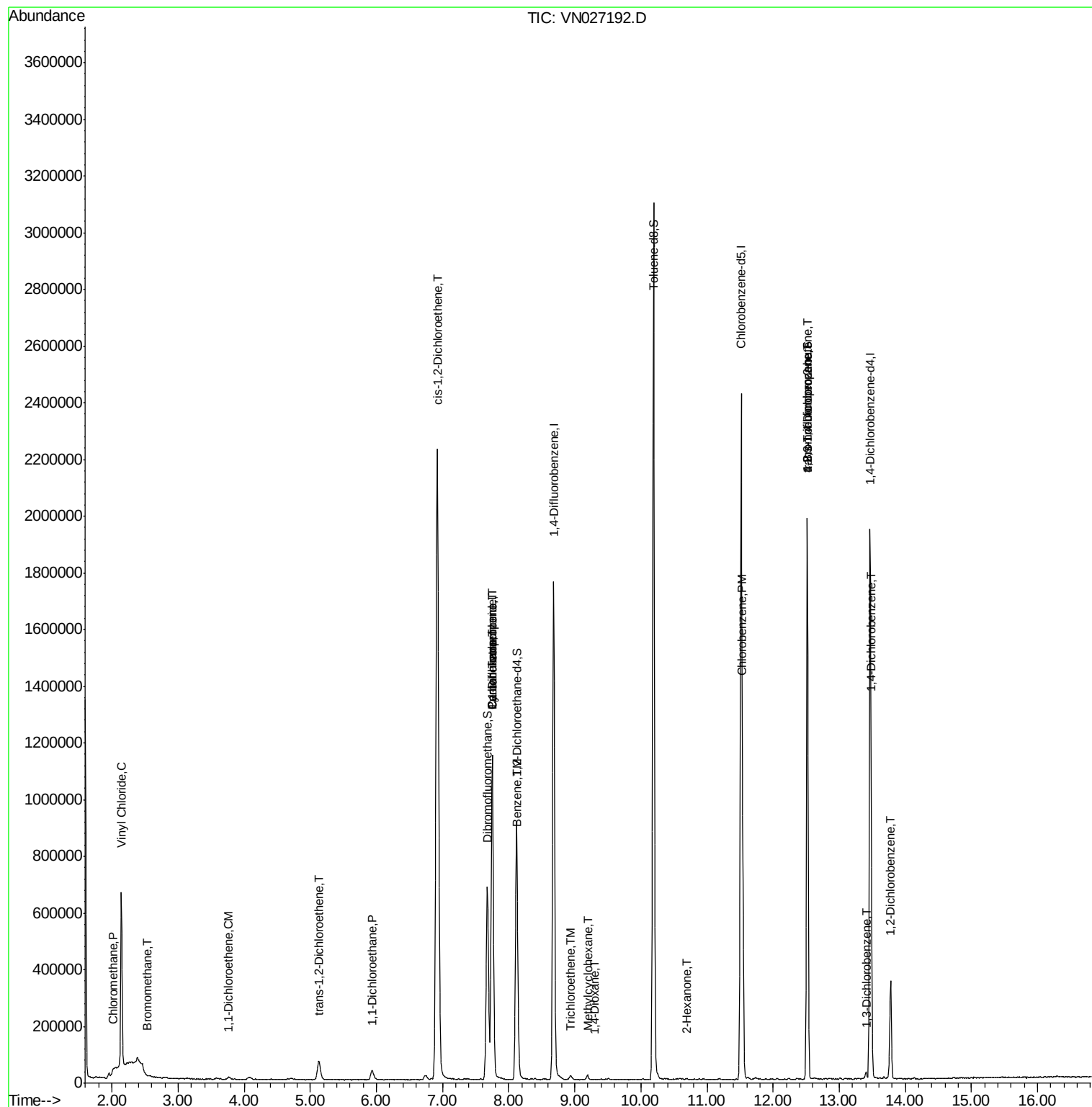
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
4) Chloromethane	2.01	50	3519	1.43	ug/l #	84
5) Vinyl Chloride	2.14	62	522109	46.25	ug/l	99
6) Bromomethane	2.55	94	274	1.65	ug/l #	72
13) 1,1-Dichloroethene	3.76	96	2372	0.23	ug/l	79
22) trans-1,2-Dichloroethene	5.13	96	38061	3.43	ug/l	99
25) 1,1-Dichloroethane	5.93	63	49505	1.96	ug/l	97
28) cis-1,2-Dichloroethene	6.92	96	1365550	107.31	ug/l	91
32) Cyclohexane	7.76	56	37256	0.75	ug/l #	21
37) 1,1-Dichloropropene	7.75	75	83677	5.02	ug/l #	50
38) Ethyl Acetate	7.01	43	221	Below Cal	#	71
39) Carbon Tetrachloride	7.75	117	91490	5.84	ug/l #	16
40) Methylcyclohexane	9.19	83	7318	0.36	ug/l #	86
41) Benzene	8.14	78	40022	0.82	ug/l	95
45) Trichloroethene	8.94	130	4258	0.44	ug/l	97
50) 1,4-Dioxane	9.30	88	32	0.21	ug/l #	1
60) 2-Hexanone	10.69	43	2771	0.29	ug/l	72
66) Chlorobenzene	11.54	112	311011	11.00	ug/l	100
76) 1,1,2,2-Tetrachloroethane	12.62	83	393	Below Cal	#	25
77) 1,2,3-Trichloropropane	12.52	75	390512	31.04	ug/l #	1
82) trans-1,4-Dichloro-2-buten	12.52	75	390512	76.23	ug/l #	4
88) 1,3-Dichlorobenzene	13.41	146	7878	0.51	ug/l	95
89) 1,4-Dichlorobenzene	13.49	146	122148	7.83	ug/l	92
92) 1,2-Dichlorobenzene	13.78	146	119620	7.86	ug/l	98
93) 1,2-Dibromo-3-Chloropropan	14.16	75	33	Below Cal	#	9

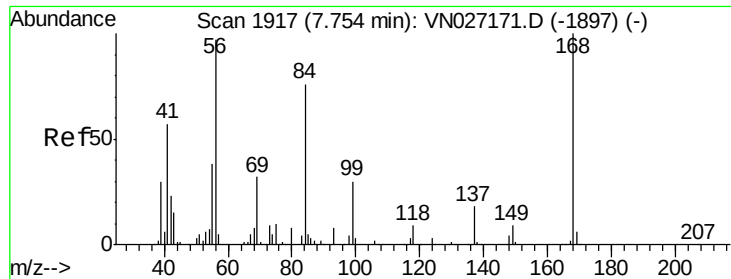
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Tue Sep 15 21:12:09 2015
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 7.75 min Scan# 1917

Delta R.T. -0.00 min

Lab File: VN027192.D

Acq: 16 Sep 2015 5:20

Instrument :

MSVOA_N

ClientSampleId :

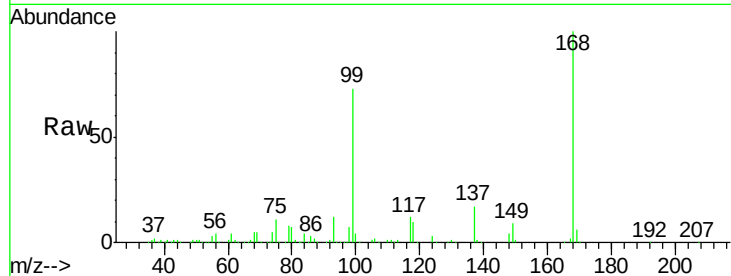
S39-0099

Tot Ion:168 Resp: 798917

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): VNO

7.75

300000

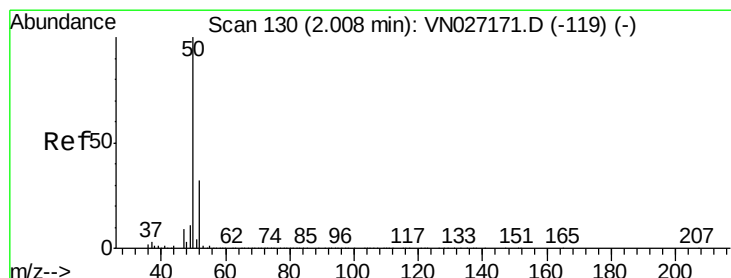
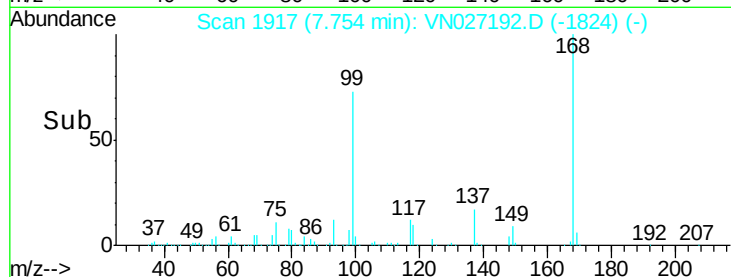
200000

100000

0

Time-->

7.70 7.80



#4

Chloromethane

Concen: 1.43 ug/l

RT: 2.01 min Scan# 130

Delta R.T. 0.00 min

Lab File: VN027192.D

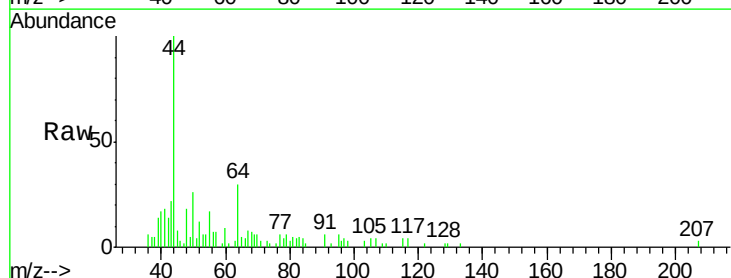
Acq: 16 Sep 2015 5:20

Tgt Ion: 50 Resp: 3519

Ion Ratio Lower Upper

50 100

52 41.3 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

2500

2000

1500

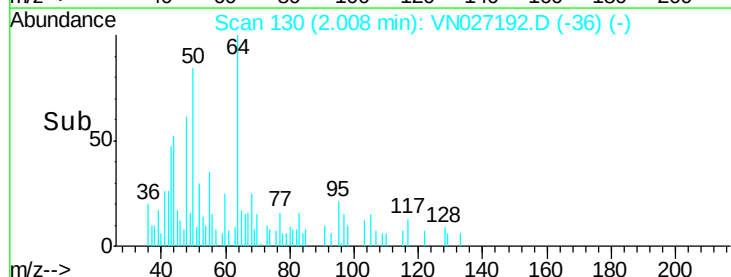
1000

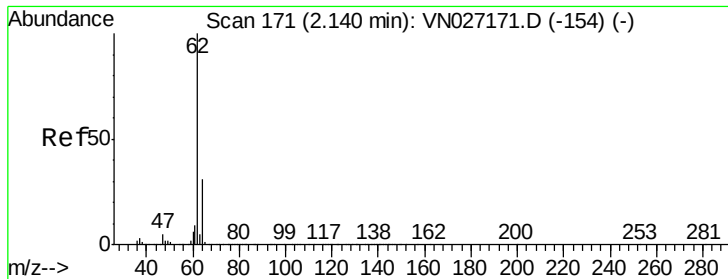
500

0

Time-->

1.95 2.00 2.05





#5

Vinyl Chloride

Concen: 46.25 ug/l

RT: 2.14 min Scan# 172

Delta R.T. 0.00 min

Lab File: VN027192.D

Acq: 16 Sep 2015 5:20

Instrument :

MSVOA_N

ClientSampleId :

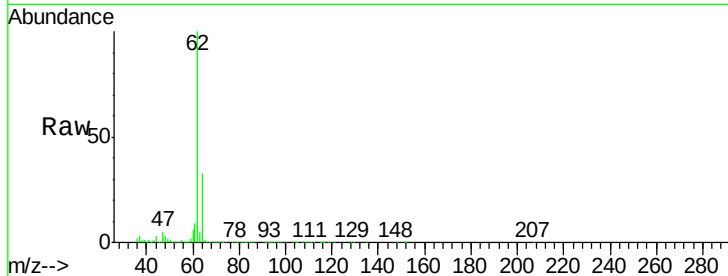
S39-0099

Tot Ion: 62 Resp: 522109

Ion Ratio Lower Upper

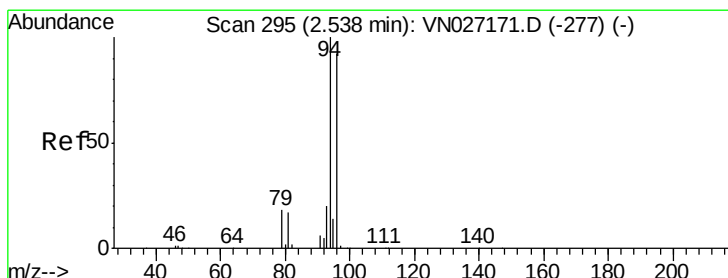
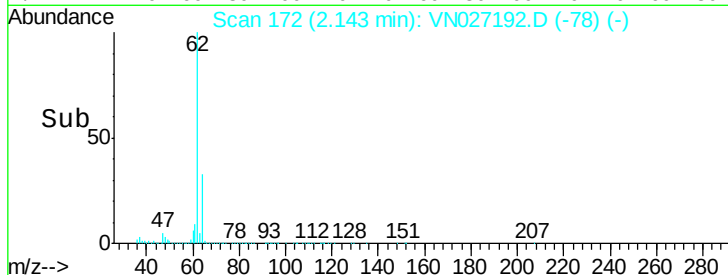
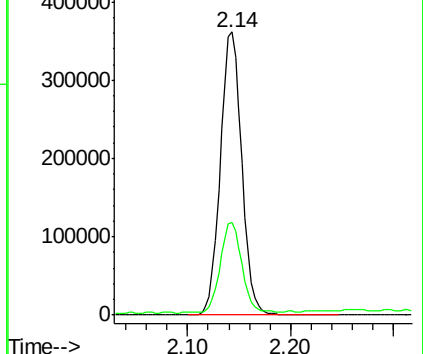
62 100

64 31.8 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: 1.65 ug/l

RT: 2.55 min Scan# 298

Delta R.T. 0.01 min

Lab File: VN027192.D

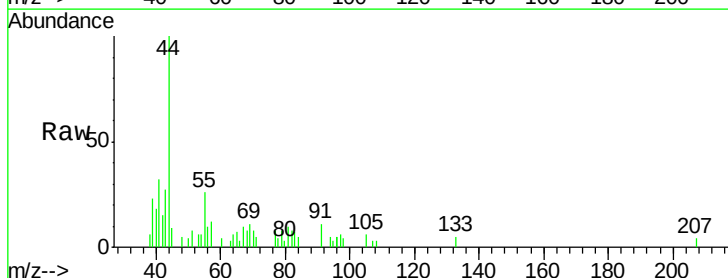
Acq: 16 Sep 2015 5:20

Tgt Ion: 94 Resp: 274

Ion Ratio Lower Upper

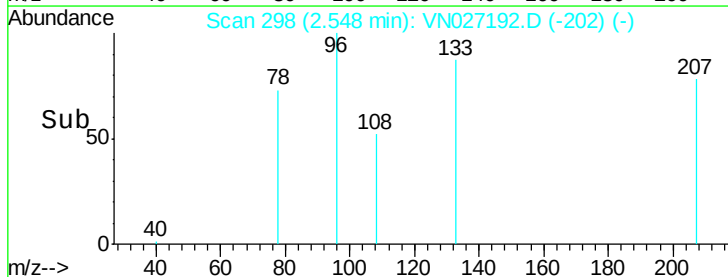
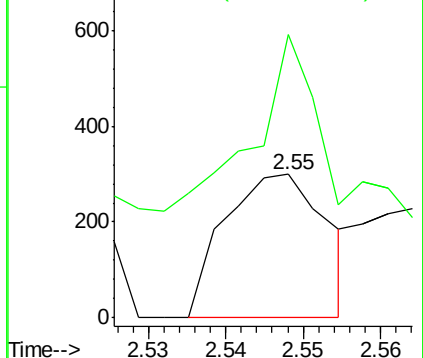
94 100

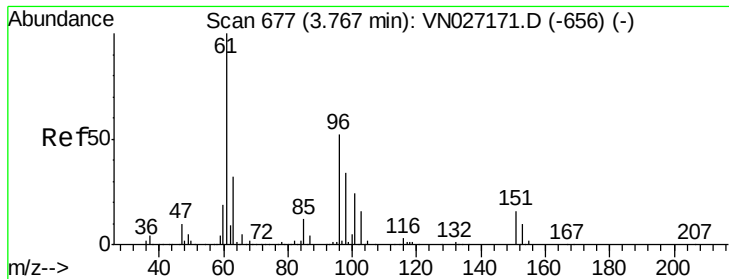
96 118.4 73.4 110.2#



Abundance Ion 93.90 (93.60 to 94.60): VNC

Ion 95.90 (95.60 to 96.60): VNC

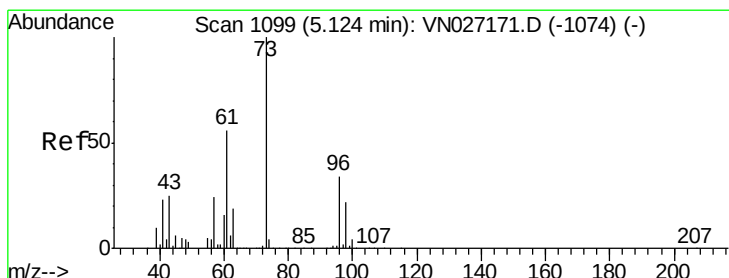
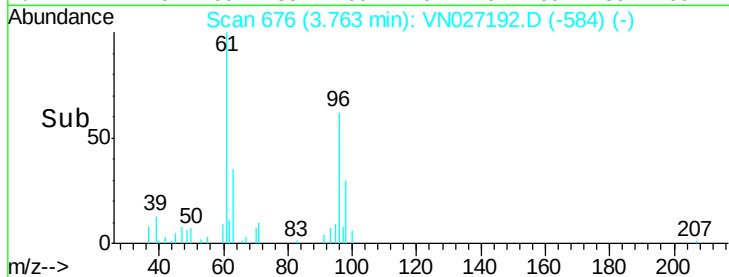
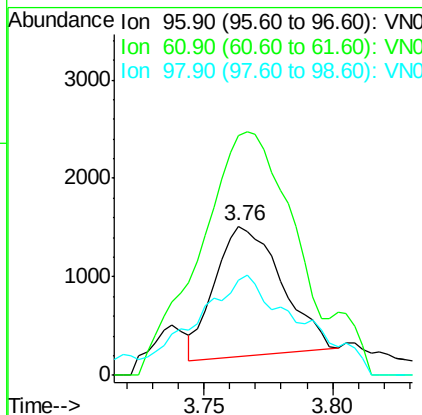
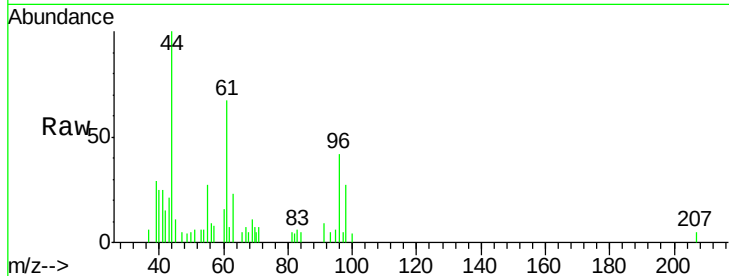




#13
 1,1-Dichloroethene
 Concen: 0.23 ug/l
 RT: 3.76 min Scan# 676
 Delta R.T. -0.00 min
 Lab File: VN027192.D
 Acq: 16 Sep 2015 5:20

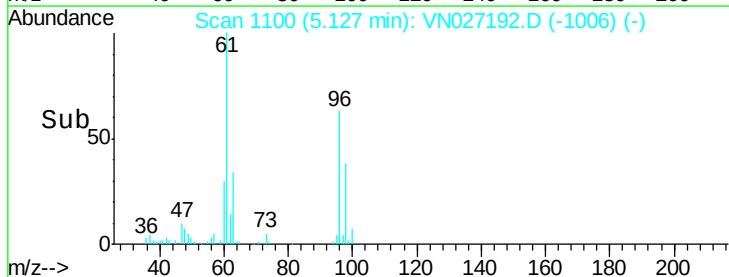
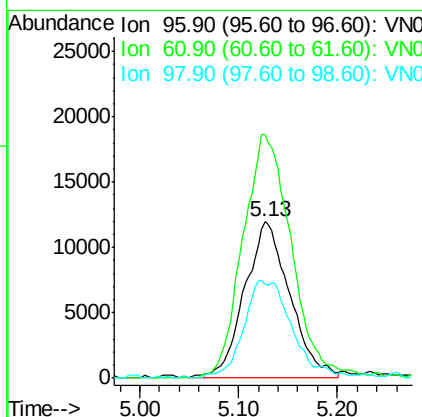
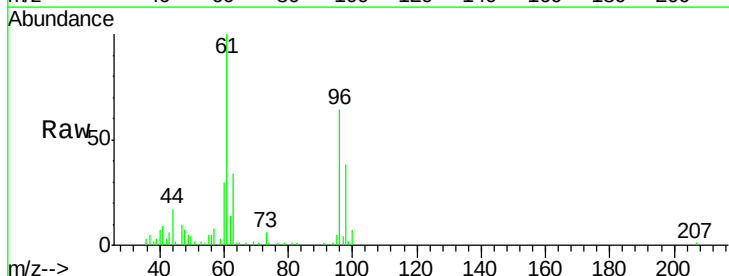
Instrument :
 MSVOA_N
 ClientSampled :
 S39-0099

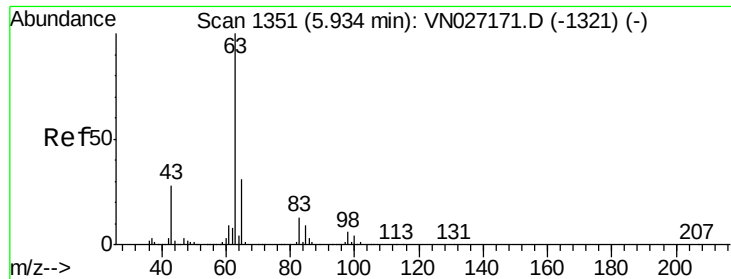
Tot Ion	Ratio	Lower	Upper
96	100		
61	144.5	143.8	215.8
98	54.9	50.3	75.5



#22
 trans-1,2-Dichloroethene
 Concen: 3.43 ug/l
 RT: 5.13 min Scan# 1100
 Delta R.T. 0.00 min
 Lab File: VN027192.D
 Acq: 16 Sep 2015 5:20

Tgt Ion	Ratio	Lower	Upper
96	100		
61	156.0	126.6	189.8
98	60.0	47.4	71.2

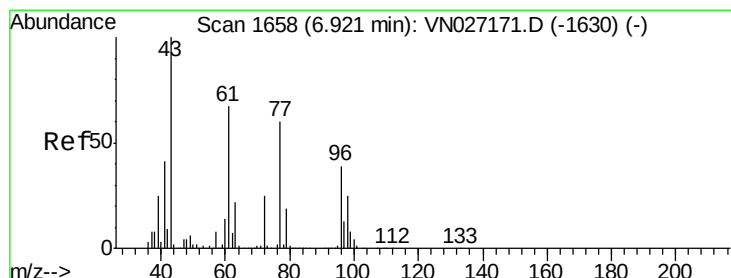
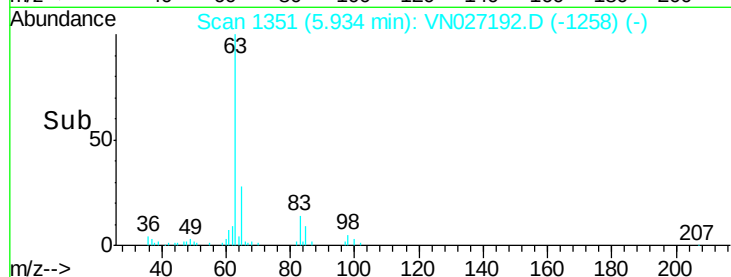
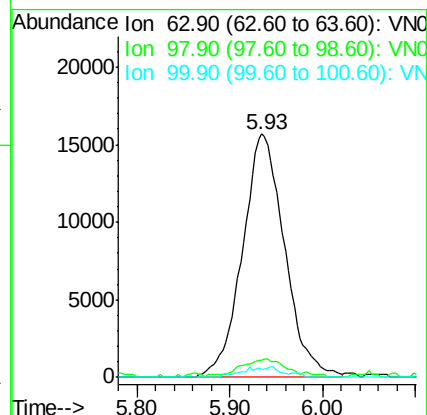
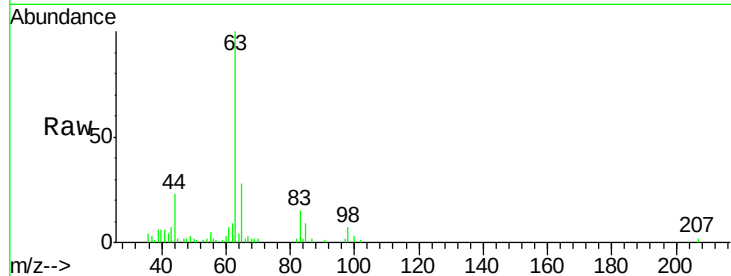




#25
 1,1-Dichloroethane
 Concen: 1.96 ug/l
 RT: 5.93 min Scan# 1351
 Delta R.T. -0.00 min
 Lab File: VN027192.D
 Acq: 16 Sep 2015 5:20

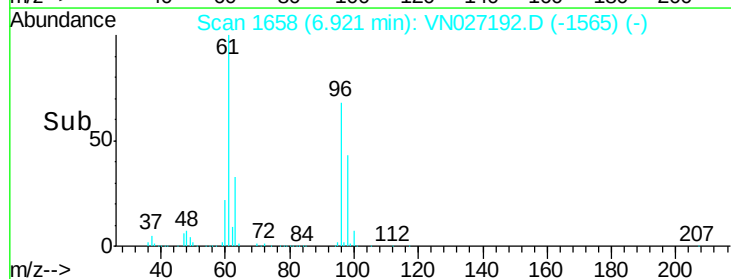
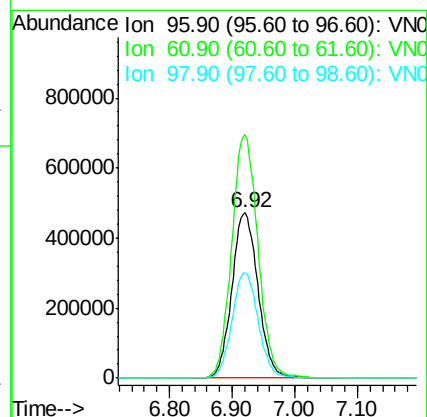
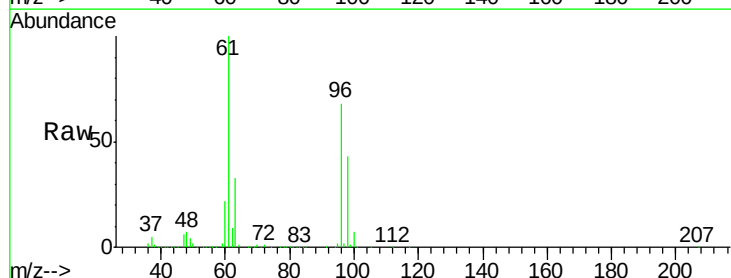
Instrument :
 MSVOA_N
 ClientSampleId :
 S39-0099

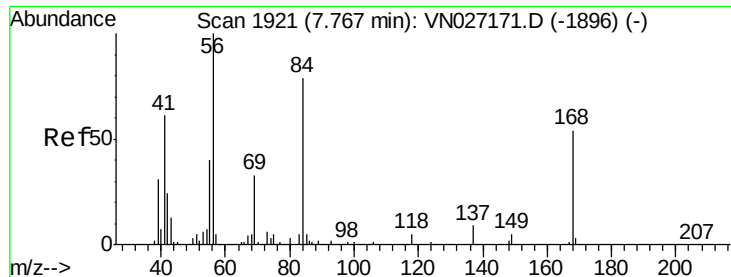
Tot Ion	Ratio	Lower	Upper
63	100		
98	7.2	2.8	8.3
100	3.2	1.7	5.0



#28
 cis-1,2-Dichloroethene
 Concen: 107.31 ug/l
 RT: 6.92 min Scan# 1658
 Delta R.T. -0.00 min
 Lab File: VN027192.D
 Acq: 16 Sep 2015 5:20

Tgt Ion	Ratio	Lower	Upper
96	100		
61	147.7	0.0	329.2
98	64.0	0.0	126.0

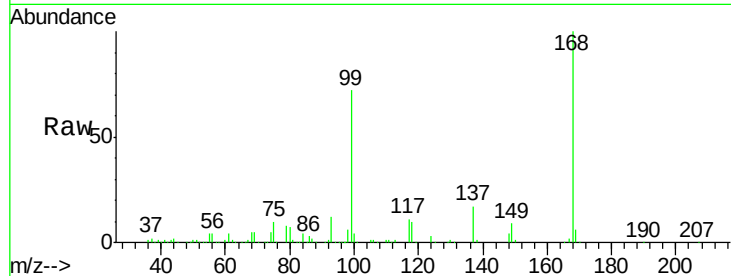




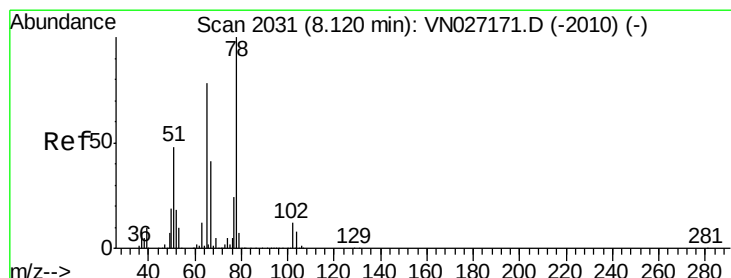
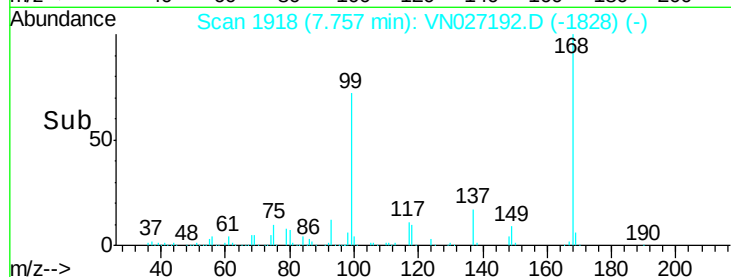
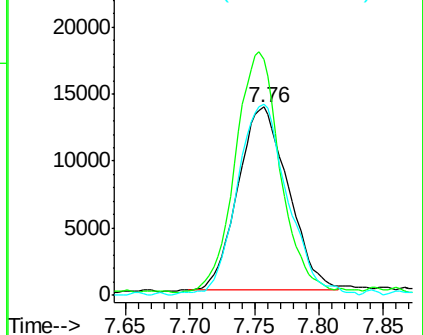
#32
Cyclohexane
Concen: 0.75 ug/l
RT: 7.76 min Scan# 1918
Delta R.T. -0.01 min
Lab File: VN027192.D
Acq: 16 Sep 2015 5:20

Instrument :
MSVOA_N
ClientSampled :
S39-0099

Tot Ion	Ratio	Lower	Upper
56	100		
69	126.9	23.0	34.4#
84	102.8	57.8	86.8#

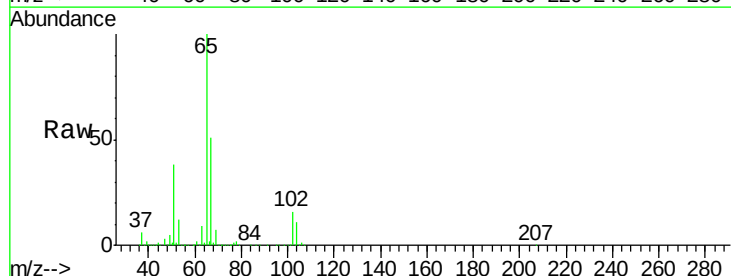


Abundance Ion 56.00 (55.70 to 56.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 84.00 (83.70 to 84.70): VN0

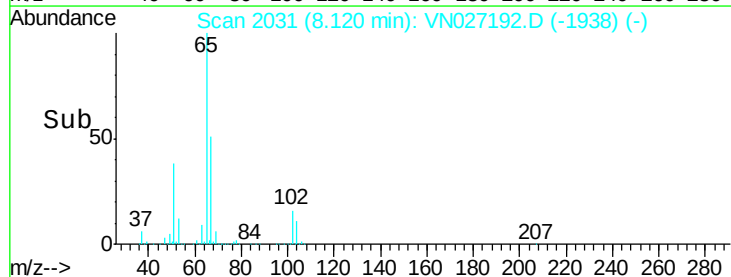
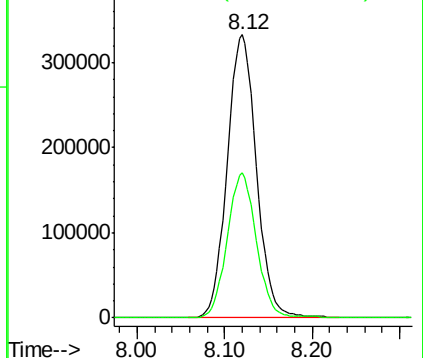


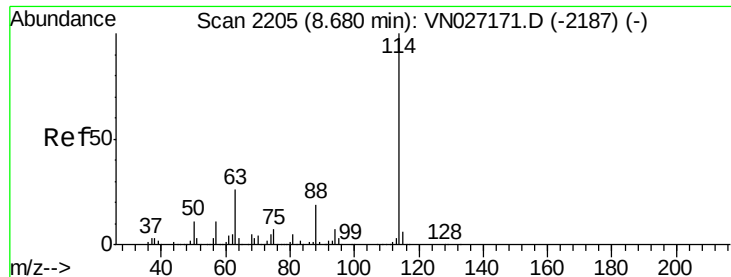
#34
1,2-Dichloroethane-d4
Concen: 47.00 ug/l
RT: 8.12 min Scan# 2031
Delta R.T. -0.00 min
Lab File: VN027192.D
Acq: 16 Sep 2015 5:20

Tgt Ion	Ratio	Lower	Upper
65	100		
67	51.1	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# 2205

Delta R.T. -0.00 min

Lab File: VN027192.D

Acq: 16 Sep 2015 5:20

Instrument :

MSVOA_N

ClientSampleId :

S39-0099

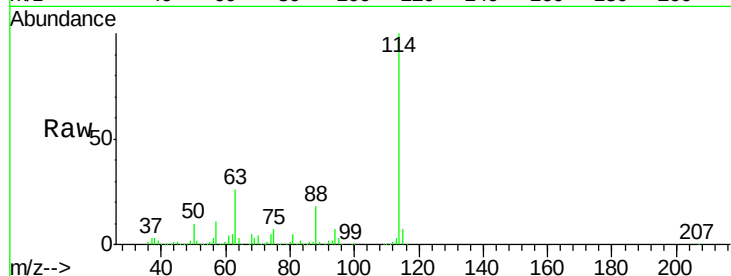
Tot Ion:114 Resp: 1422794

Ion Ratio Lower Upper

114 100

63 25.6 0.0 48.8

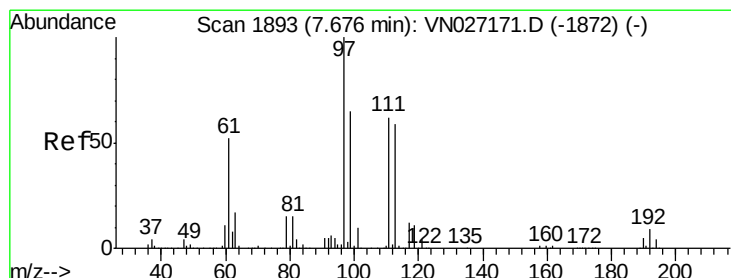
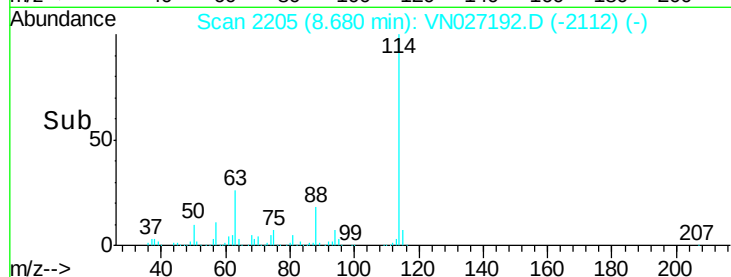
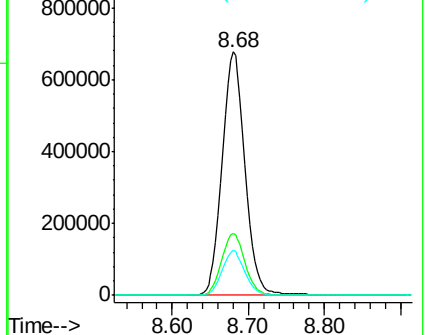
88 18.4 0.0 32.2



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VN0

Ion 87.90 (87.60 to 88.60): VN0



#36

Dibromofluoromethane

Concen: 51.95 ug/l

RT: 7.68 min Scan# 1893

Delta R.T. -0.00 min

Lab File: VN027192.D

Acq: 16 Sep 2015 5:20

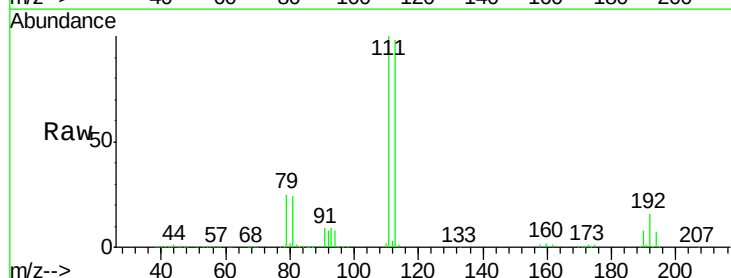
Tgt Ion:113 Resp: 512385

Ion Ratio Lower Upper

113 100

111 105.4 83.0 124.4

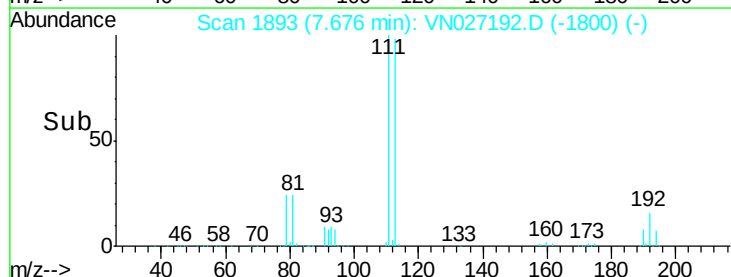
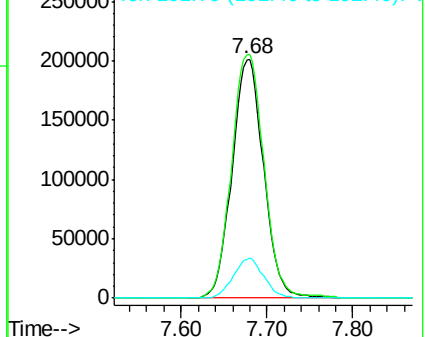
192 16.1 14.1 21.1

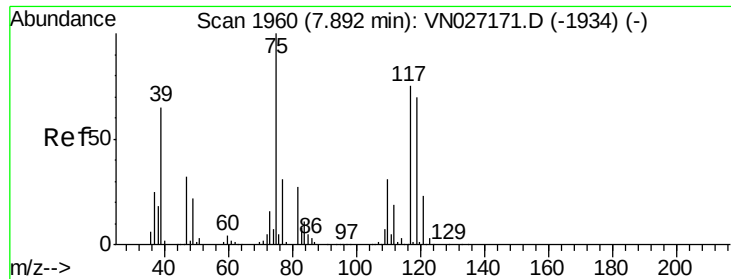


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

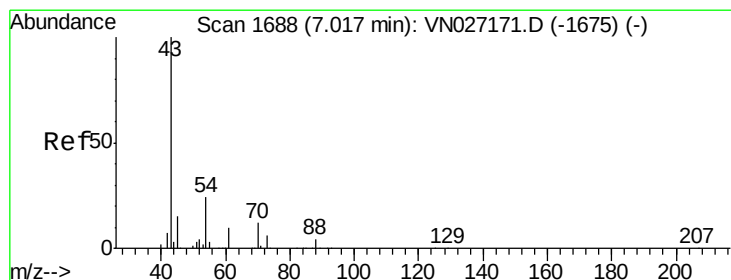
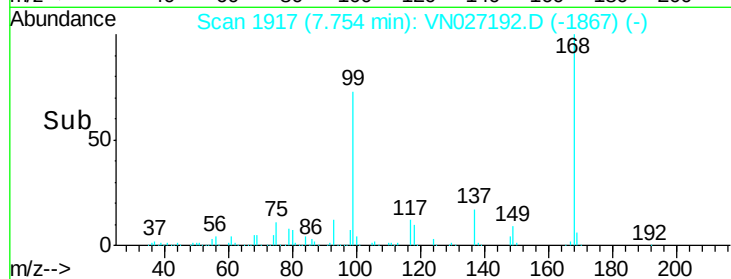
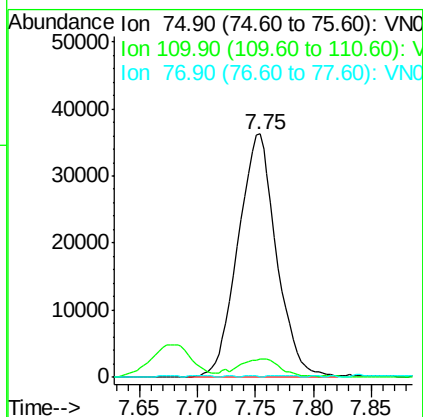
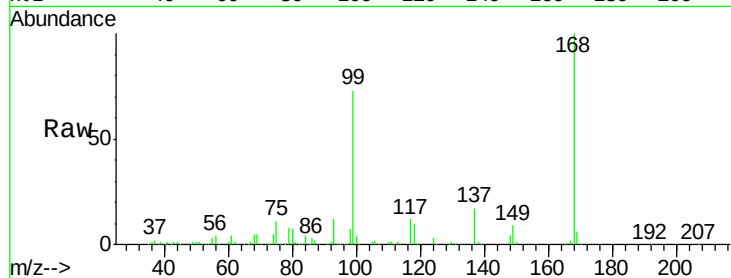




#37
 1,1-Dichloropropene
 Concen: 5.02 ua/l
 RT: 7.75 min Scan# 1917
 Delta R.T. -0.14 min
 Lab File: VN027192.D
 Acq: 16 Sep 2015 5:20

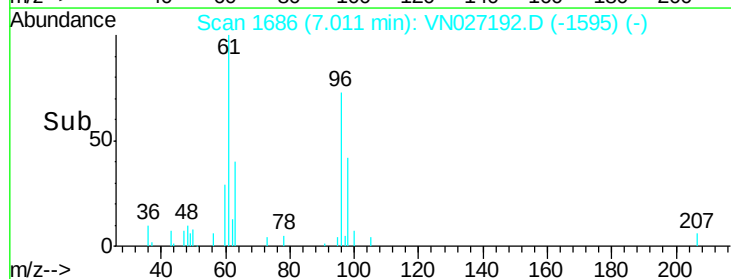
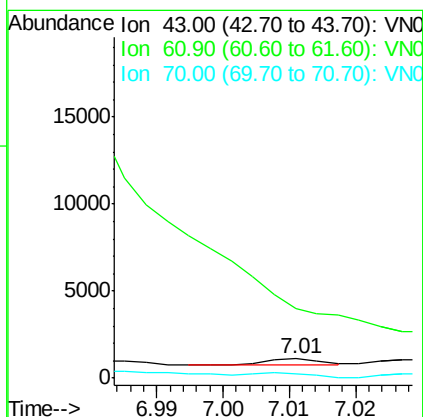
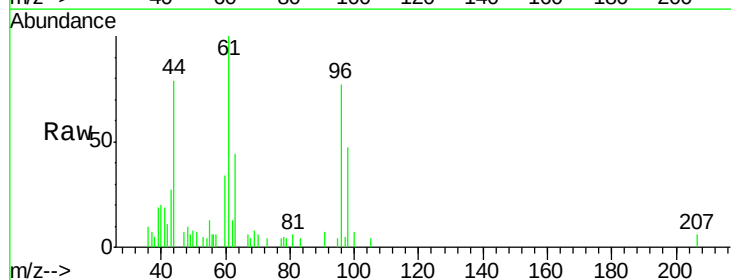
Instrument :
 MSVOA_N
 ClientSampleId :
 S39-0099

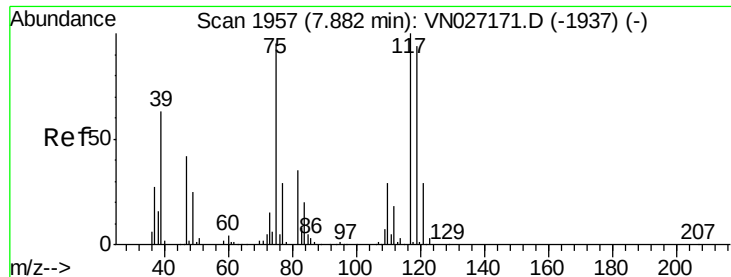
Tot Ion: 75 Resp: 83677
 Ion Ratio Lower Upper
 75 100
 110 7.9 15.9 47.7#
 77 0.0 24.9 37.3#



#38
 Ethyl Acetate
 Concen: Below Cal
 RT: 7.01 min Scan# 1686
 Delta R.T. -0.01 min
 Lab File: VN027192.D
 Acq: 16 Sep 2015 5:20

Tgt Ion: 43 Resp: 221
 Ion Ratio Lower Upper
 43 100
 61 0.0 10.2 15.4#
 70 0.0 7.4 11.0#





#39

Carbon Tetrachloride

Concen: 5.84 ug/l

RT: 7.75 min Scan# 1917

Delta R.T. -0.13 min

Lab File: VN027192.D

Acq: 16 Sep 2015 5:20

Instrument :

MSVOA_N

ClientSampled :

S39-0099

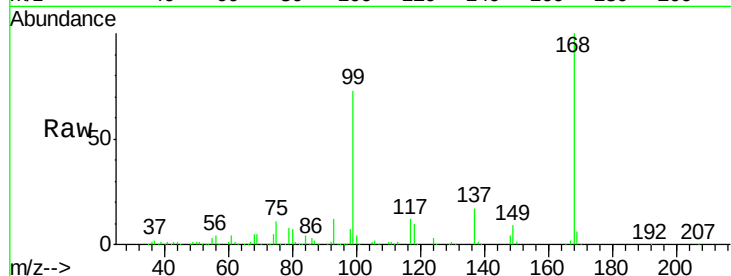
Tot Ion:117 Resp: 91490

Ion Ratio Lower Upper

117 100

119 4.1 75.3 112.9#

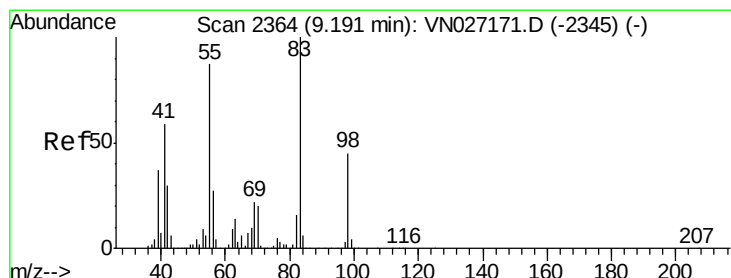
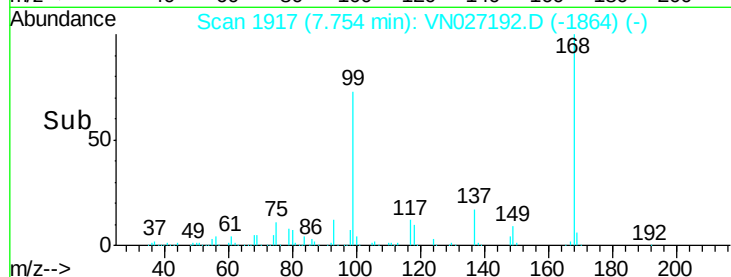
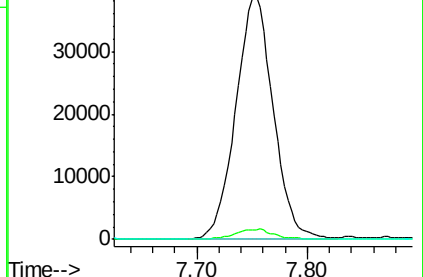
121 0.0 23.8 35.8#



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



#40

Methylcyclohexane

Concen: 0.36 ug/l

RT: 9.19 min Scan# 2363

Delta R.T. -0.00 min

Lab File: VN027192.D

Acq: 16 Sep 2015 5:20

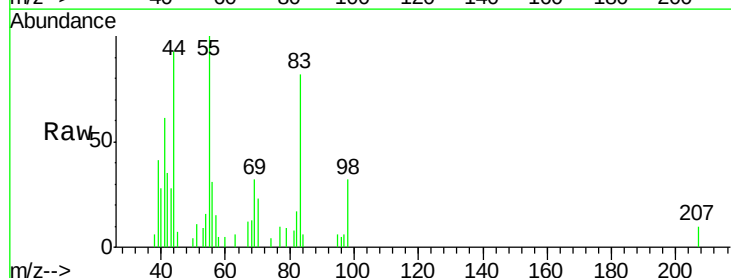
Tgt Ion: 83 Resp: 7318

Ion Ratio Lower Upper

83 100

55 100.3 69.8 104.8

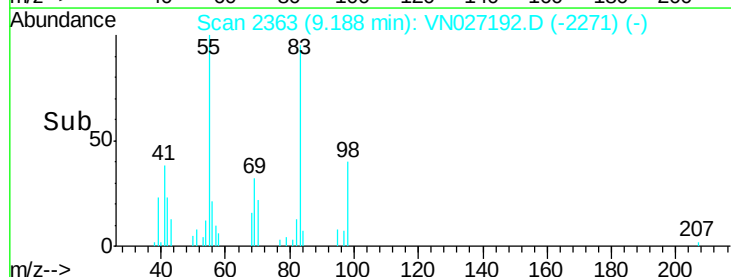
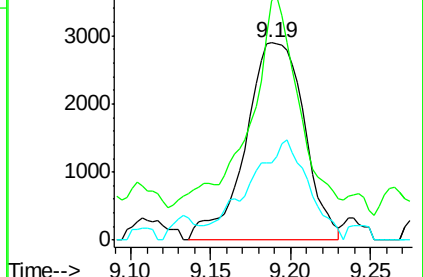
98 33.7 34.3 51.5#

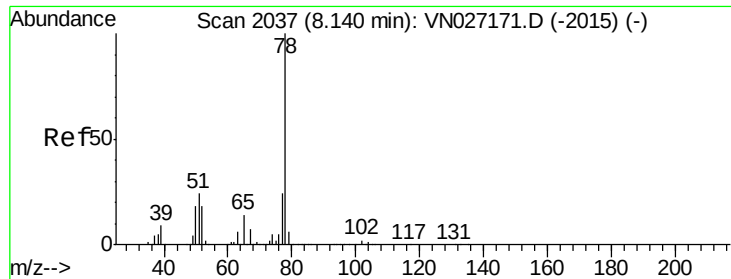


Abundance Ion 83.00 (82.70 to 83.70): V

Ion 55.00 (54.70 to 55.70): V

Ion 98.00 (97.70 to 98.70): V





#41

Benzene

Concen: 0.82 ug/l

RT: 8.14 min Scan# 2037

Delta R.T. -0.00 min

Lab File: VN027192.D

Acq: 16 Sep 2015 5:20

Instrument :

MSVOA_N

ClientSampleId :

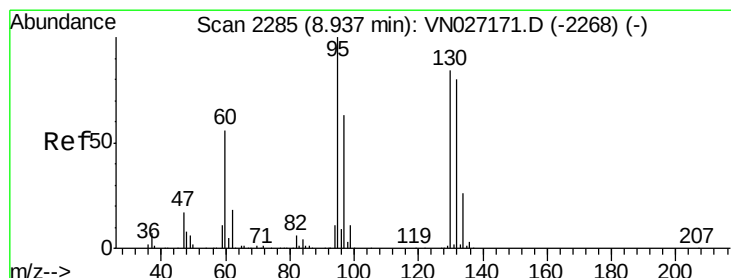
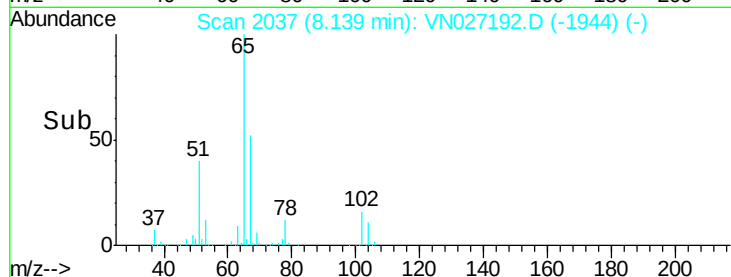
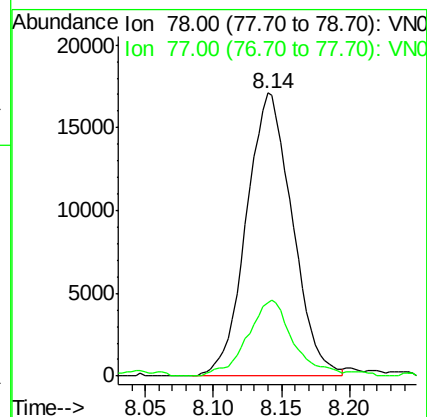
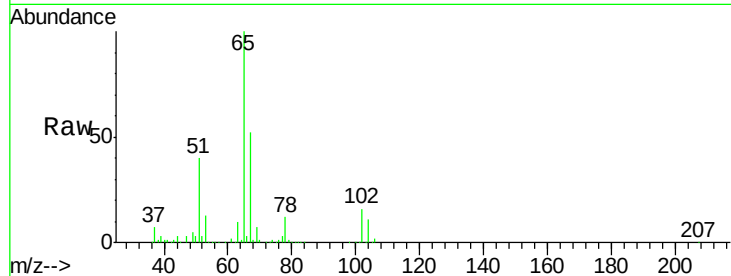
S39-0099

Tot Ion: 78 Resp: 40022

Ion Ratio Lower Upper

78 100

77 26.2 19.0 28.4



#45

Trichloroethene

Concen: 0.44 ug/l

RT: 8.94 min Scan# 2285

Delta R.T. -0.00 min

Lab File: VN027192.D

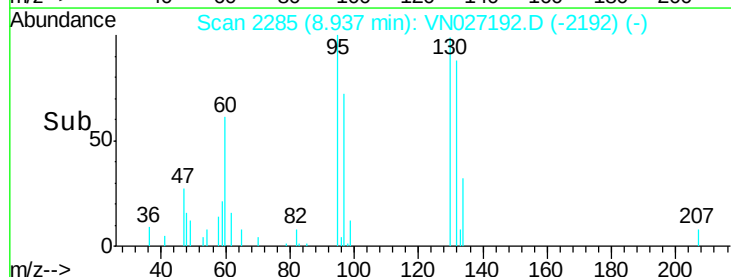
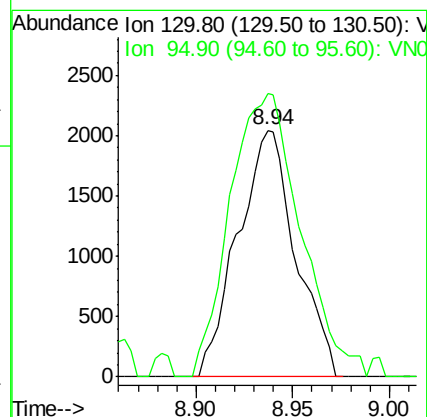
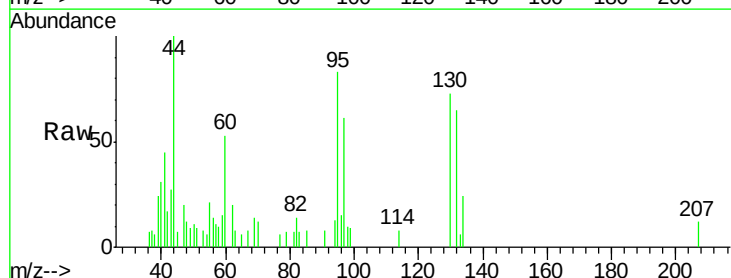
Acq: 16 Sep 2015 5:20

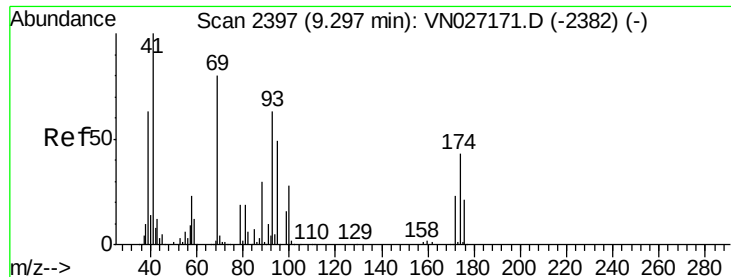
Tgt Ion: 130 Resp: 4258

Ion Ratio Lower Upper

130 100

95 114.8 0.0 222.2

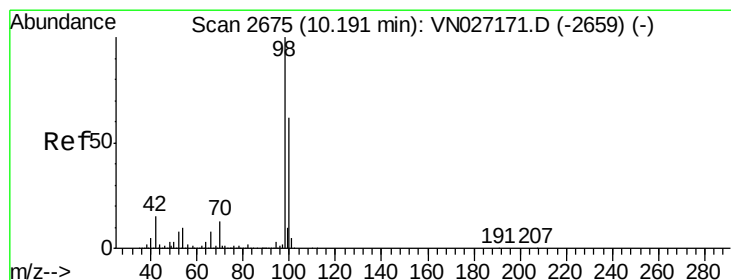
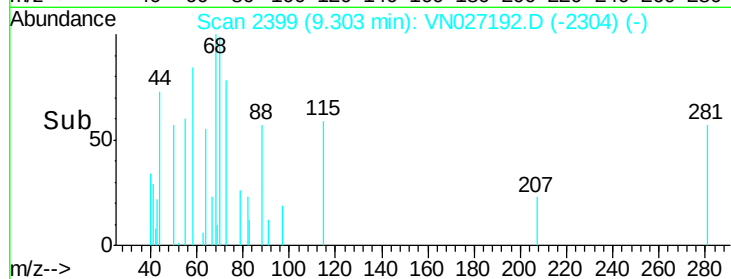
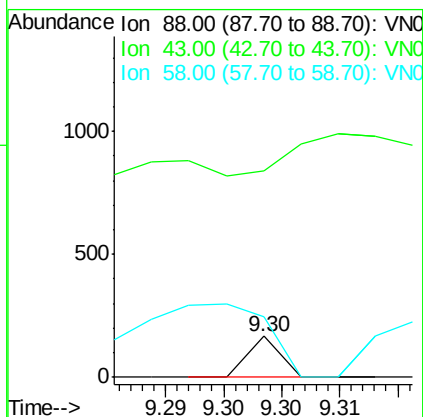
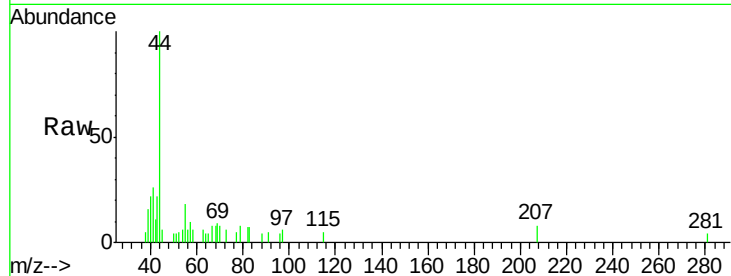




#50
1,4-Dioxane
Concen: 0.21 ug/l
RT: 9.30 min Scan# 2399
Delta R.T. 0.01 min
Lab File: VN027192.D
Acq: 16 Sep 2015 5:20

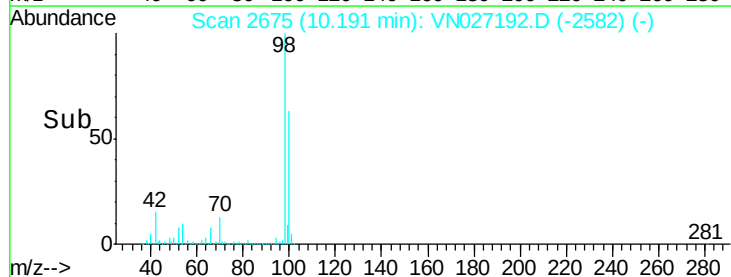
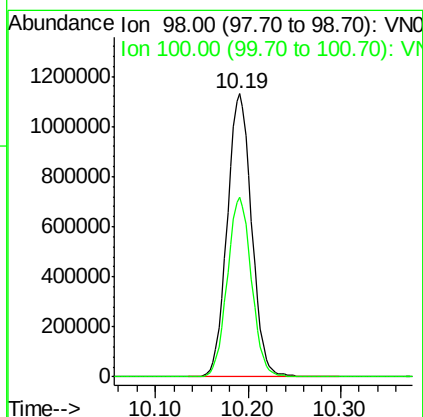
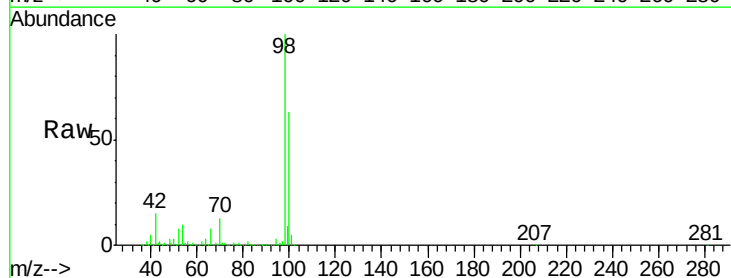
Instrument :
MSVOA_N
ClientSampled :
S39-0099

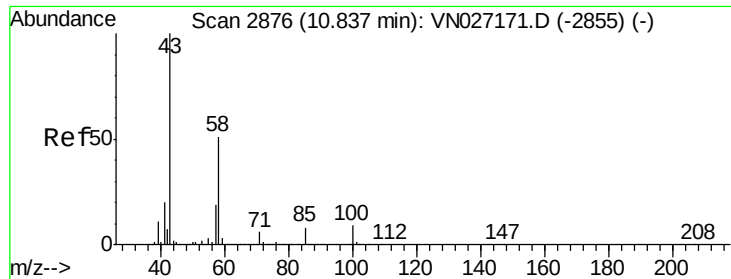
Tot Ion: 88 Resp: 32
Ion Ratio Lower Upper
88 100
43 393.8 27.6 41.4#
58 737.5 63.1 94.7#



#51
Toluene-d8
Concen: 53.46 ug/l
RT: 10.19 min Scan# 2675
Delta R.T. -0.00 min
Lab File: VN027192.D
Acq: 16 Sep 2015 5:20

Tgt Ion: 98 Resp: 2064324
Ion Ratio Lower Upper
98 100
100 62.9 50.5 75.7

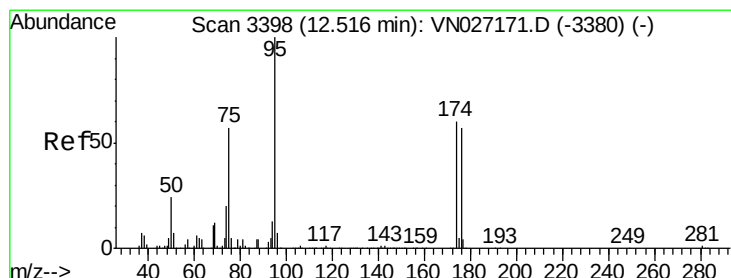
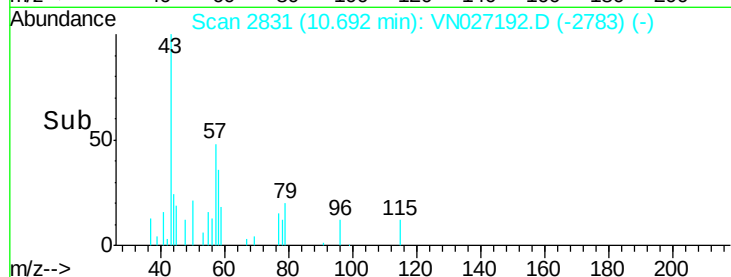
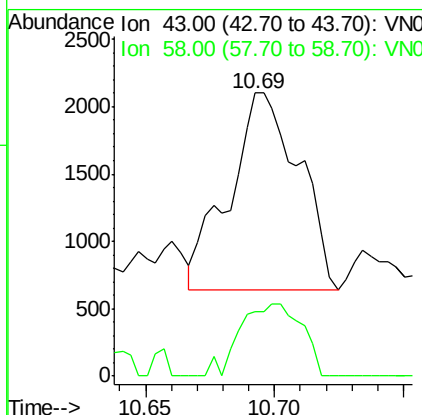
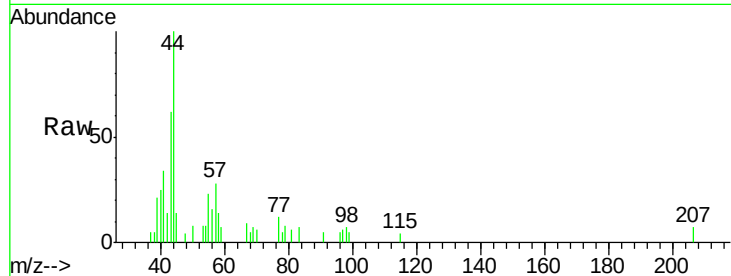




#60
2-Hexanone
Concen: 0.29 ug/l
RT: 10.69 min Scan# 2831
Delta R.T. -0.14 min
Lab File: VN027192.D
Acq: 16 Sep 2015 5:20

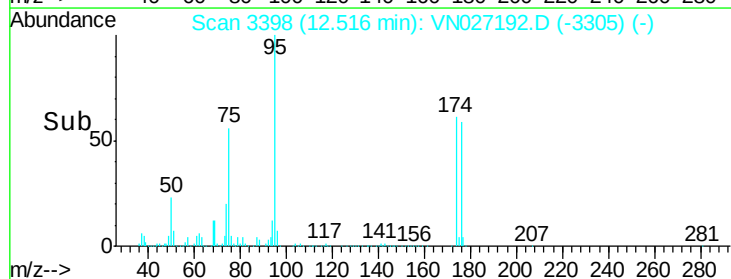
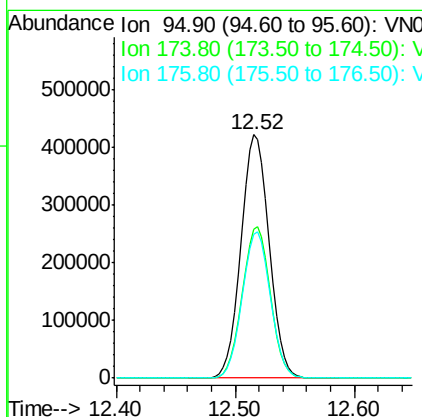
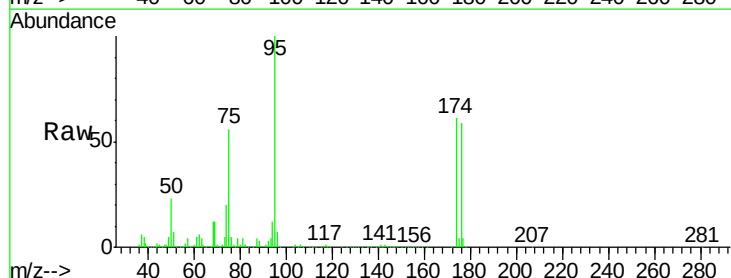
Instrument :
MSVOA_N
ClientSampled :
S39-0099

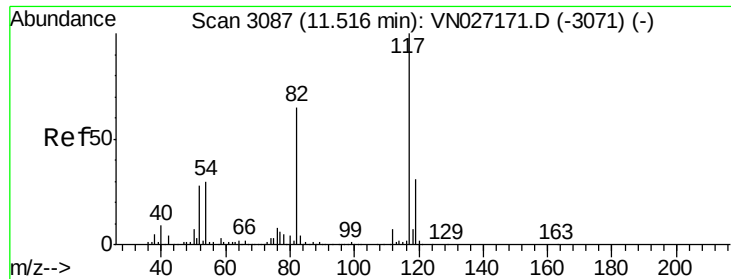
Tot Ion: 43 Resp: 2771
Ion Ratio Lower Upper
43 100
58 32.3 26.2 78.5



#63
4-Bromofluorobenzene
Concen: 50.57 ug/l
RT: 12.52 min Scan# 3398
Delta R.T. -0.00 min
Lab File: VN027192.D
Acq: 16 Sep 2015 5:20

Tgt Ion: 95 Resp: 693164
Ion Ratio Lower Upper
95 100
174 61.9 0.0 137.0
176 60.1 0.0 130.8

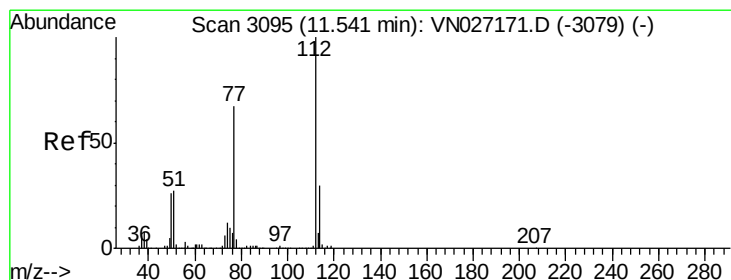
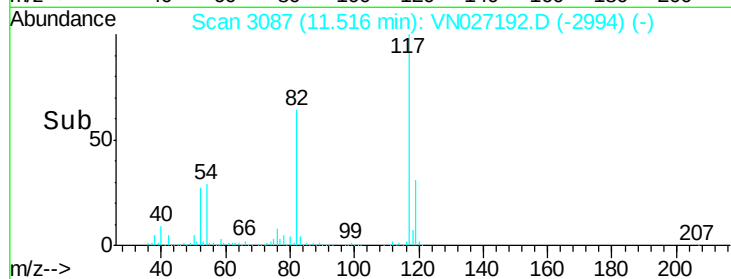
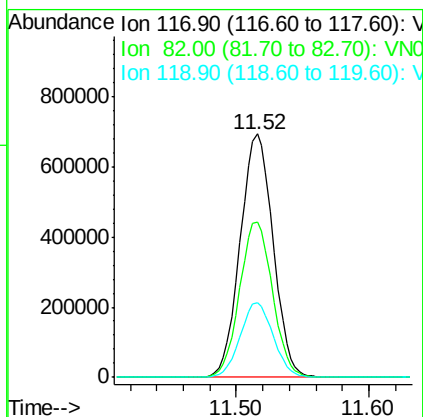
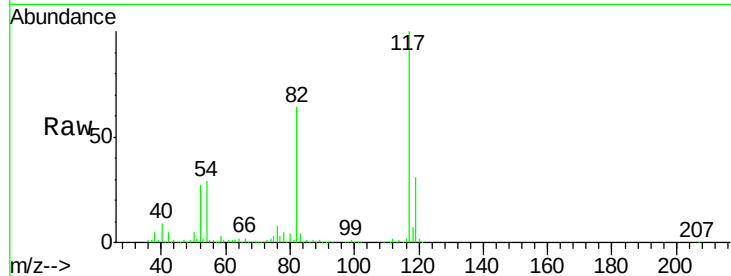




#64
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 11.52 min Scan# 3087
Delta R.T. -0.00 min
Lab File: VN027192.D
Acq: 16 Sep 2015 5:20

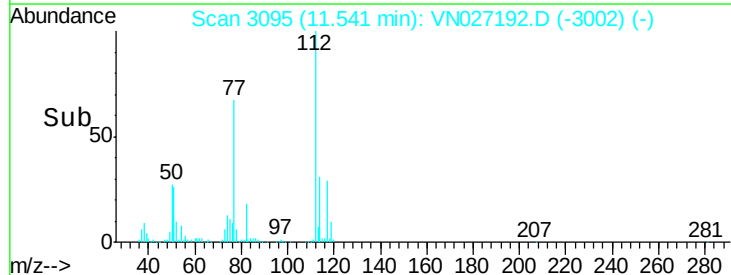
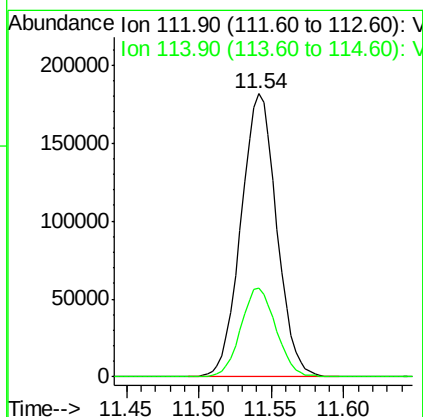
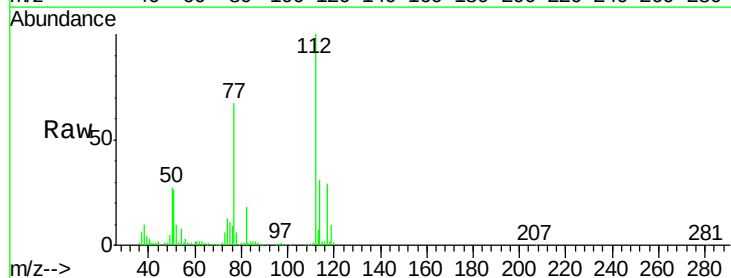
Instrument :
MSVOA_N
ClientSampleId :
S39-0099

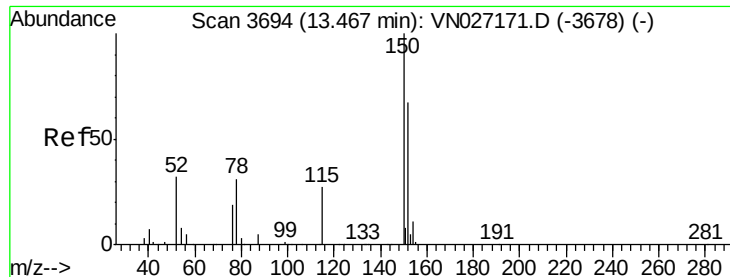
Tot Ion:117 Resp: 1197234
Ion Ratio Lower Upper
117 100
82 63.8 49.6 74.4
119 30.8 24.6 36.8



#66
Chlorobenzene
Concen: 11.00 ug/l
RT: 11.54 min Scan# 3095
Delta R.T. -0.00 min
Lab File: VN027192.D
Acq: 16 Sep 2015 5:20

Tgt Ion:112 Resp: 311011
Ion Ratio Lower Upper
112 100
114 31.4 24.9 37.3





#73

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 13.47 min Scan# 3694

Delta R.T. -0.00 min

Lab File: VN027192.D

Acq: 16 Sep 2015 5:20

Instrument :

MSVOA_N

ClientSampled :

S39-0099

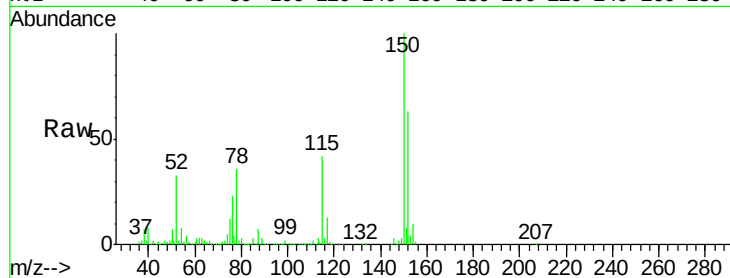
Tot Ion:152 Resp: 416325

Ion Ratio Lower Upper

152 100

115 68.0 30.8 92.3

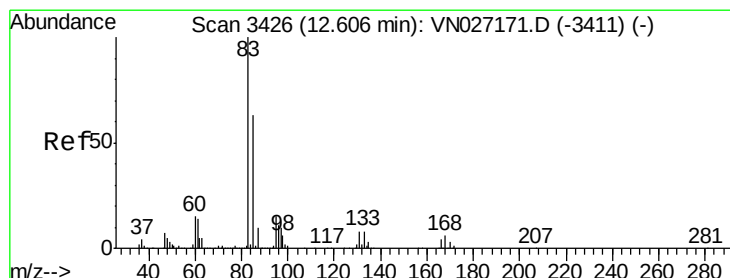
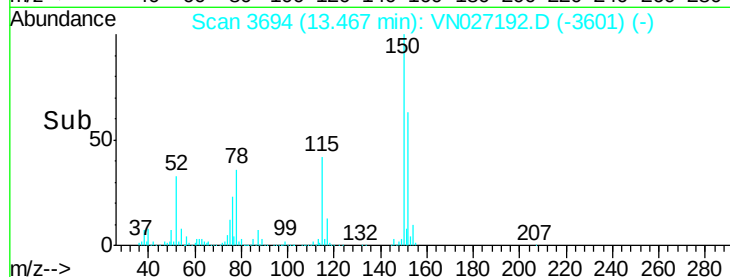
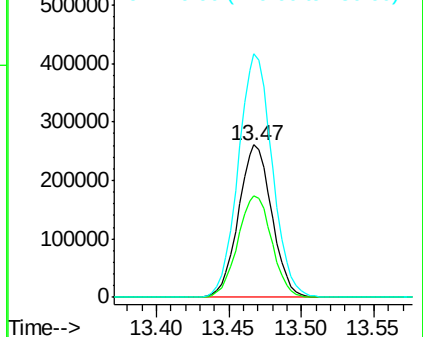
150 162.7 0.0 345.0



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: 12.62 min Scan# 3430

Delta R.T. 0.01 min

Lab File: VN027192.D

Acq: 16 Sep 2015 5:20

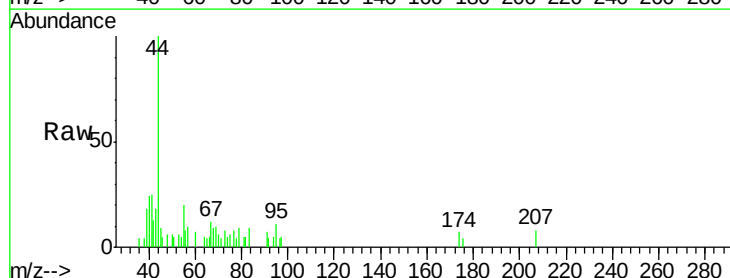
Tgt Ion: 83 Resp: 393

Ion Ratio Lower Upper

83 100

131 0.0 4.1 12.3#

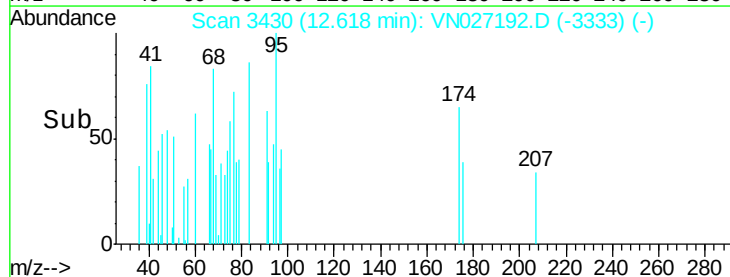
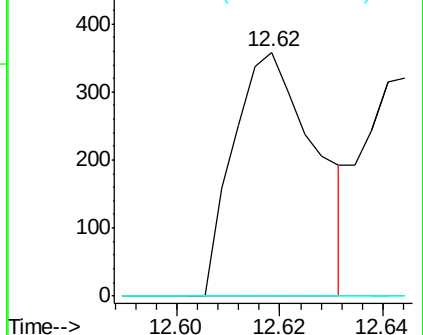
85 0.0 31.9 95.7#

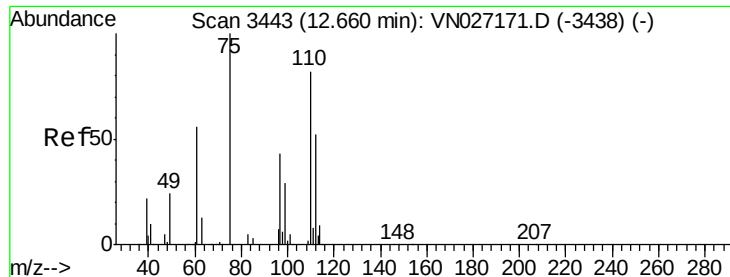


Abundance Ion 82.90 (82.60 to 83.60): V

Ion 130.80 (130.50 to 131.50): V

Ion 84.90 (84.60 to 85.60): V





#77

1,2,3-Trichloropropane

Concen: 31.04 ug/l

RT: 12.52 min Scan# 3398

Delta R.T. -0.14 min

Lab File: VN027192.D

Acq: 16 Sep 2015 5:20

Instrument :

MSVOA_N

ClientSampleId :

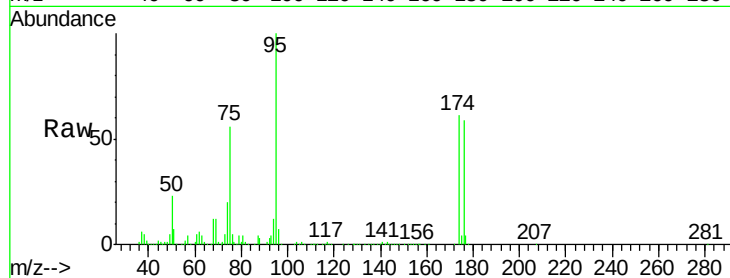
S39-0099

Tot Ion: 75 Resp: 390512

Ion Ratio Lower Upper

75 100

77 1.0 103.1 309.3#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0

12.52

250000

200000

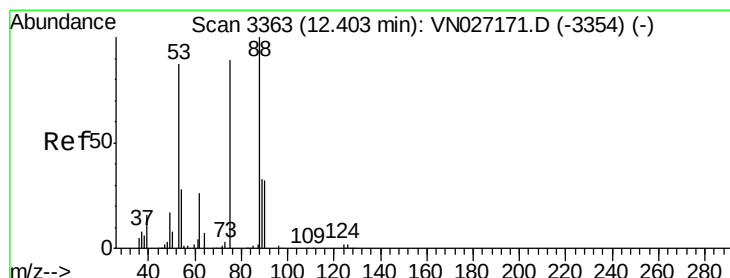
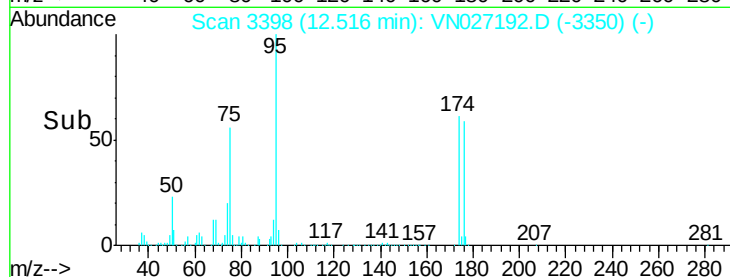
150000

100000

50000

0

Time-->



#82

trans-1,4-Dichloro-2-butene

Concen: 76.23 ug/l

RT: 12.52 min Scan# 3398

Delta R.T. 0.11 min

Lab File: VN027192.D

Acq: 16 Sep 2015 5:20

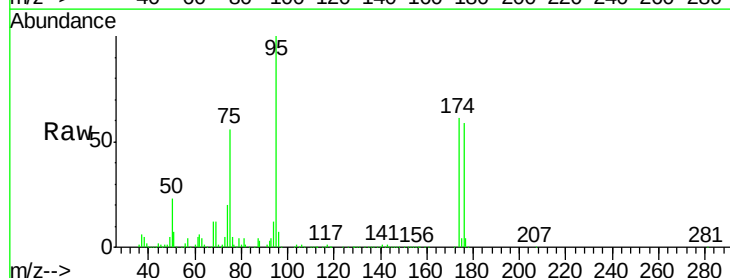
Tgt Ion: 75 Resp: 390512

Ion Ratio Lower Upper

75 100

53 0.1 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

12.52

300000

250000

200000

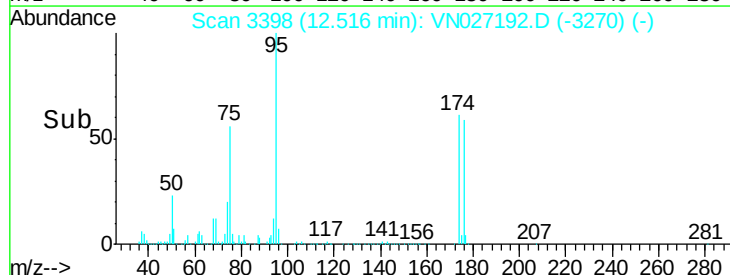
150000

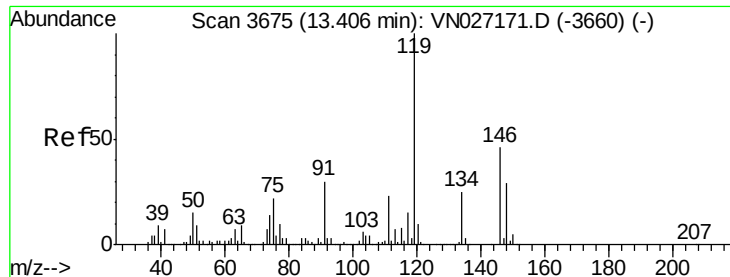
100000

50000

0

Time-->

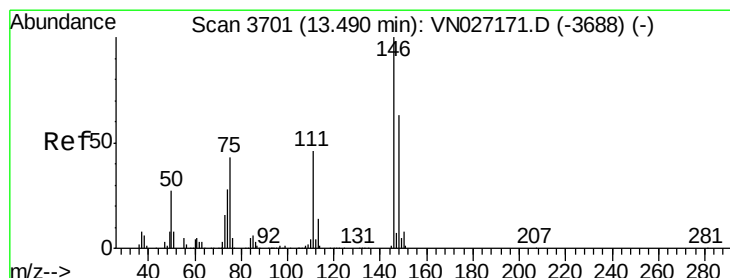
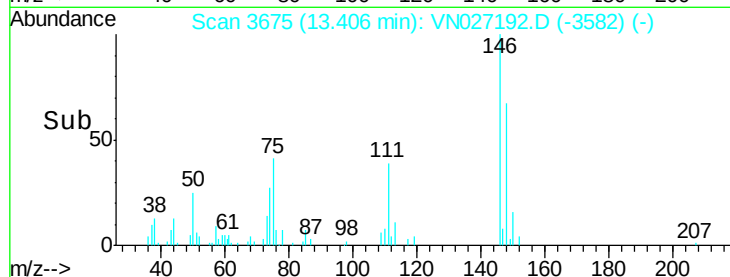
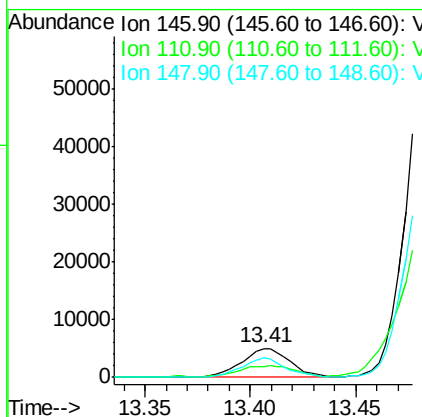
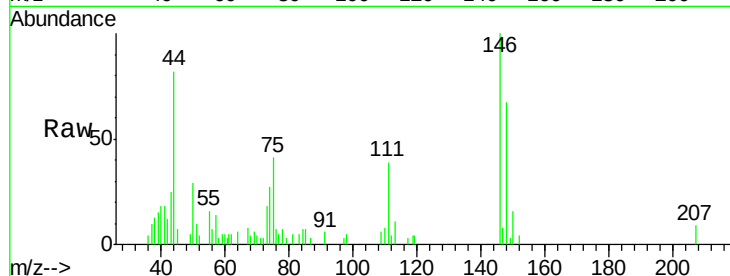




#88
 1,3-Dichlorobenzene
 Concen: 0.51 ug/l
 RT: 13.41 min Scan# 3675
 Delta R.T. -0.00 min
 Lab File: VN027192.D
 Acq: 16 Sep 2015 5:20

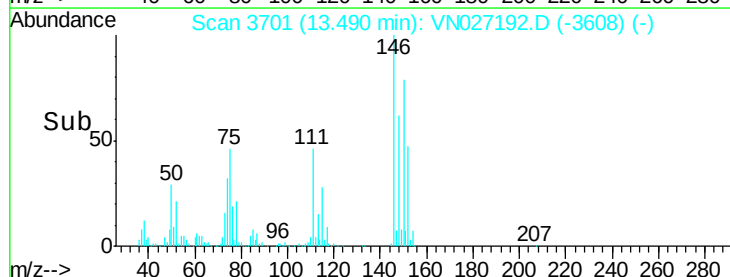
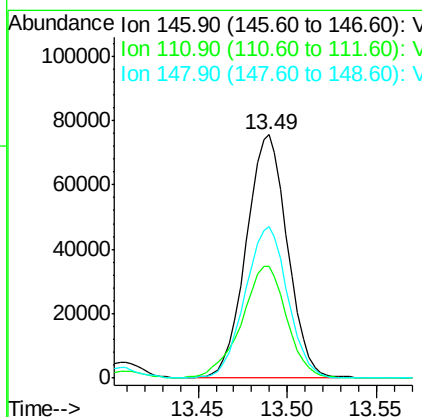
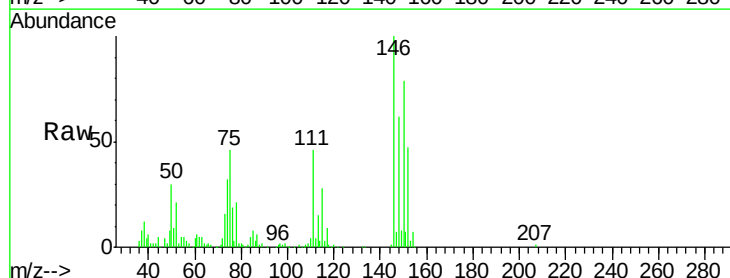
Instrument :
 MSVOA_N
 ClientSampled :
 S39-0099

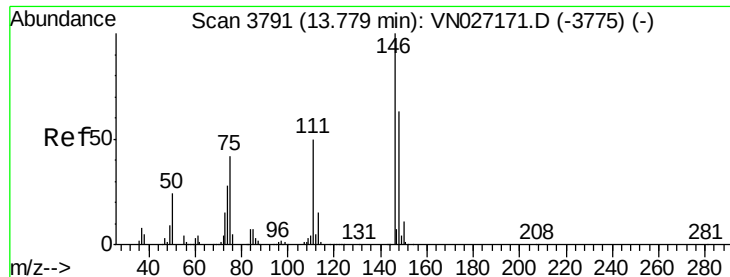
Tot Ion:146 Resp: 7878
 Ion Ratio Lower Upper
 146 100
 111 48.3 21.0 63.0
 148 62.6 31.9 95.9



#89
 1,4-Dichlorobenzene
 Concen: 7.83 ug/l
 RT: 13.49 min Scan# 3701
 Delta R.T. -0.00 min
 Lab File: VN027192.D
 Acq: 16 Sep 2015 5:20

Tgt Ion:146 Resp: 122148
 Ion Ratio Lower Upper
 146 100
 111 50.4 19.9 59.6
 148 64.5 31.7 95.1

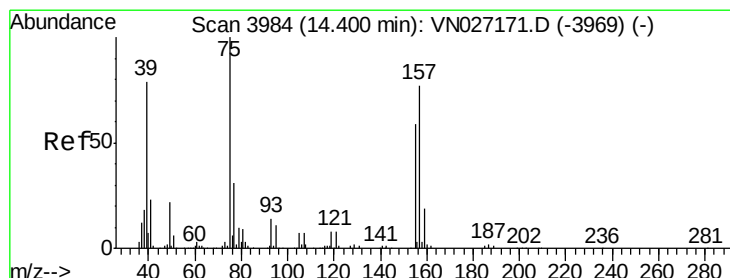
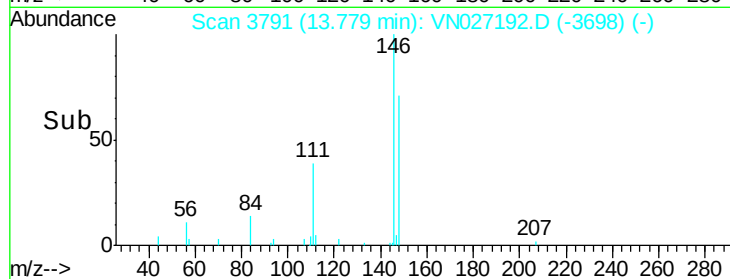
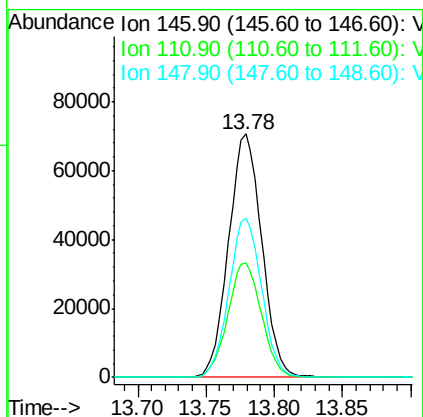
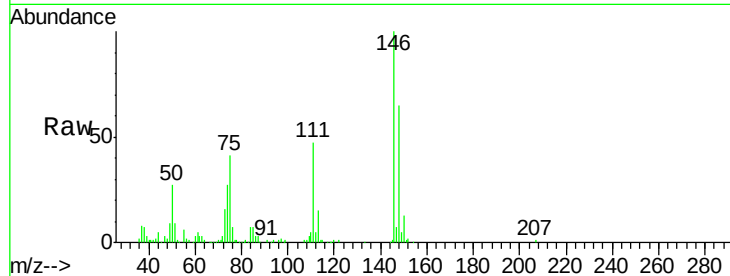




#92
 1,2-Dichlorobenzene
 Concen: 7.86 ug/l
 RT: 13.78 min Scan# 3791
 Delta R.T. -0.00 min
 Lab File: VN027192.D
 Acq: 16 Sep 2015 5:20

Instrument :
 MSVOA_N
 ClientSampleId :
 S39-0099

Tot Ion	Ratio	Lower	Upper
146	100		
111	47.5	22.1	66.3
148	64.3	32.0	96.0



#93
 1,2-Dibromo-3-Chloropropane
 Concen: Below Cal
 RT: 14.16 min Scan# 3911
 Delta R.T. -0.23 min
 Lab File: VN027192.D
 Acq: 16 Sep 2015 5:20

Tgt Ion	Ratio	Lower	Upper
75	100		
155	0.0	35.6	106.9#
157	0.0	44.6	133.8#

