

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF122716\
 Data File : BF091990.D
 Acq On : 28 Dec 2016 3:39
 Operator : UM/SJ
 Sample : PB95631BS
 Misc :
 ALS Vial : 31 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 PB95631BS

Quant Time: Dec 28 06:09:25 2016
 Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF122116.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Dec 21 16:17:51 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.73	152	222616	20.00	ng	-0.02
21) Naphthalene-d8	8.02	136	940695	20.00	ng	-0.02
38) Acenaphthene-d10	9.78	164	495181	20.00	ng	-0.01
63) Phenanthrene-d10	11.25	188	669840	20.00	ng	-0.01
75) Chrysene-d12	13.89	240	511542	20.00	ng	-0.01
86) Perylene-d12	15.29	264	457520	20.00	ng	-0.01

System Monitoring Compounds

5) 2-Fluorophenol	5.36	112	976511	73.24	ng	0.01
7) Phenol-d6	6.41	99	1204681	74.01	ng	0.00
23) Nitrobenzene-d5	7.30	82	1342733	79.37	ng	-0.02
41) 2,4,6-Tribromophenol	10.57	330	243366	59.39	ng	-0.01
44) 2-Fluorobiphenyl	9.10	172	2275627	95.80	ng	-0.01
78) Terphenyl-d14	12.84	244	1874454	88.87	ng	-0.01

Target Compounds

						Qvalue
2) 1,4-Dioxane	2.32	88	232316	35.39	ng	97
3) Pyridine	2.99	79	643596	28.09	ng	96
4) n-Nitrosodimethylamine	2.94	42	335476	38.82	ng	95
6) Aniline	6.40	93	424010	20.06	ng	# 53
8) 2-Chlorophenol	6.52	128	622274	41.03	ng	96
9) Benzaldehyde	6.27	77	69461	5.56	ng	99
10) Phenol	6.42	94	916700	49.42	ng	# 70
11) bis(2-Chloroethyl)ether	6.46	93	597014	40.45	ng	97
12) 1,3-Dichlorobenzene	6.67	146	683108	42.19	ng	98
13) 1,4-Dichlorobenzene	6.75	146	657172	39.88	ng	92
14) 1,2-Dichlorobenzene	6.90	146	595173	41.62	ng	98
15) Benzyl Alcohol	6.89	79	199433	15.77	ng	93
16) 2,2'-oxybis(1-Chloropropan	7.01	45	805565	36.65	ng	65
17) 2-Methylphenol	7.02	107	486361	39.88	ng	# 92
18) Hexachloroethane	7.24	117	254226	41.61	ng	96
19) n-Nitroso-di-n-propylamine	7.16	70	519256	47.95	ng	# 91
20) 3+4-Methylphenols	7.17	107	701028	48.19	ng	# 70
22) Acetophenone	7.15	105	942808	40.63	ng	# 90
24) Nitrobenzene	7.32	77	760080	42.18	ng	96
25) Isophorone	7.56	82	1230658	39.43	ng	96
26) 2-Nitrophenol	7.64	139	354334	39.88	ng	# 86
27) 2,4-Dimethylphenol	7.70	122	591969	40.17	ng	98
28) bis(2-Chloroethoxy)methane	7.78	93	772067	40.79	ng	99
29) 2,4-Dichlorophenol	7.89	162	512879	41.10	ng	89
30) 1,2,4-Trichlorobenzene	7.96	180	530682	38.81	ng	96
31) Naphthalene	8.04	128	1819273	42.26	ng	100
32) Benzoic acid	7.85	122	260017	23.79	ng	98
33) 4-Chloroaniline	8.11	127	247536	12.75	ng	95
34) Hexachlorobutadiene	8.16	225	298053	41.29	ng	100
35) Caprolactam	8.48	113	114344	27.88	ng	# 61
36) 4-Chloro-3-methylphenol	8.61	107	582537	40.57	ng	96
37) 2-Methylnaphthalene	8.74	142	1203487	46.80	ng	96
39) 1,2,4,5-Tetrachlorobenzene	8.90	216	462142	36.94	ng	# 98
40) Hexachlorocyclopentadiene	8.89	237	425544	76.56	ng	96

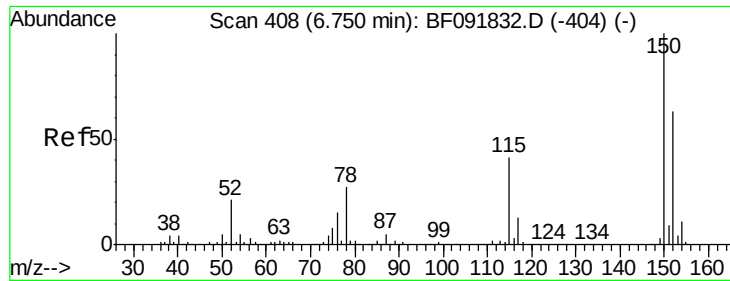
Data Path : Z:\HPCHEM1\BNA_F\DATA\BF122716\
 Data File : BF091990.D
 Acq On : 28 Dec 2016 3:39
 Operator : UM/SJ
 Sample : PB95631BS
 Misc :
 ALS Vial : 31 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 PB95631BS

Quant Time: Dec 28 06:09:25 2016
 Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF122116.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Dec 21 16:17:51 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
42) 2,4,6-Trichlorophenol	9.02	196	338643	38.70	ng	98
43) 2,4,5-Trichlorophenol	9.08	196	323255	35.90	ng	# 85
45) 1,1'-Biphenyl	9.20	154	1350540	39.83	ng	96
46) 2-Chloronaphthalene	9.22	162	1031530	38.42	ng	94
47) 2-Nitroaniline	9.33	65	414820	43.39	ng	# 76
48) Acenaphthylene	9.64	152	1700527	41.18	ng	98
49) Dimethylphthalate	9.52	163	1384471	43.71	ng	100
50) 2,6-Dinitrotoluene	9.57	165	327858	47.30	ng	94
51) Acenaphthene	9.81	154	1099211	39.26	ng	98
52) 3-Nitroaniline	9.74	138	173576	20.23	ng	# 79
53) 2,4-Dinitrophenol	9.85	184	153208	39.72	ng	# 56
54) Dibenzofuran	9.98	168	1524292	40.32	ng	96
55) 4-Nitrophenol	9.94	139	402219	69.05	ng	97
56) 2,4-Dinitrotoluene	9.97	165	332616	38.23	ng	# 84
57) Fluorene	10.33	166	1198556	43.57	ng	99
58) 2,3,4,6-Tetrachlorophenol	10.11	232	284328	39.92	ng	99
59) Diethylphthalate	10.20	149	1236141	40.19	ng	99
60) 4-Chlorophenyl-phenylether	10.32	204	497550	41.31	ng	97
61) 4-Nitroaniline	10.36	138	302756	34.06	ng	96
62) Azobenzene	10.48	77	1428820	42.19	ng	98
64) 4,6-Dinitro-2-methylphenol	10.38	198	162084	40.02	ng	80
65) n-Nitrosodiphenylamine	10.44	169	1007324	50.68	ng	100
66) 4-Bromophenyl-phenylether	10.81	248	363038	52.10	ng	# 88
67) Hexachlorobenzene	10.86	284	363254	48.77	ng	# 76
68) Atrazine	10.98	200	296452	46.24	ng	96
69) Pentachlorophenol	11.07	266	238281	65.20	ng	98
70) Phenanthrene	11.29	178	1492660	41.10	ng	98
71) Anthracene	11.33	178	1477920	46.37	ng	99
72) Carbazole	11.49	167	1288718	41.73	ng	100
73) Di-n-butylphthalate	11.82	149	1601978	46.70	ng	99
74) Fluoranthene	12.47	202	1642160	52.14	ng	99
76) Benzidine	12.59	184	437415	31.10	ng	97
77) Pyrene	12.69	202	1637382	43.63	ng	99
79) Butylbenzylphthalate	13.32	149	796875	46.68	ng	96
80) Benzo(a)anthracene	13.88	228	1334357	46.21	ng	99
81) 3,3'-Dichlorobenzidine	13.85	252	330034	30.14	ng	98
82) Chrysene	13.93	228	1357016	46.85	ng	98
83) Bis(2-ethylhexyl)phthalate	13.88	149	1004778	49.98	ng	100
84) Di-n-octyl phthalate	14.50	149	1853272	49.77	ng	99
85) Indeno(1,2,3-cd)pyrene	16.64	276	1133317	45.17	ng	99
87) Benzo(b)fluoranthene	14.93	252	2332955	81.90	ng	# 93
88) Benzo(k)fluoranthene	14.93	252	2334080	96.09	ng	# 94
89) Benzo(a)pyrene	15.24	252	1104314	43.68	ng	# 95
90) Dibenzo(a,h)anthracene	16.65	278	927282	44.62	ng	98
91) Benzo(g,h,i)perylene	17.04	276	948730	43.91	ng	98

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



#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 6.73 min Scan# 406

Delta R.T. -0.02 min

Lab File: BF091990.D

Acq: 28 Dec 2016 3:39

Instrument :

BNA_F

ClientSampled :

PB95631BS

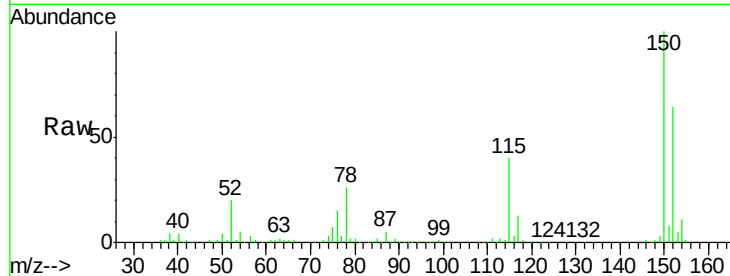
Tgt Ion:152 Resp: 222616

Ion Ratio Lower Upper

152 100

150 157.4 124.9 187.3

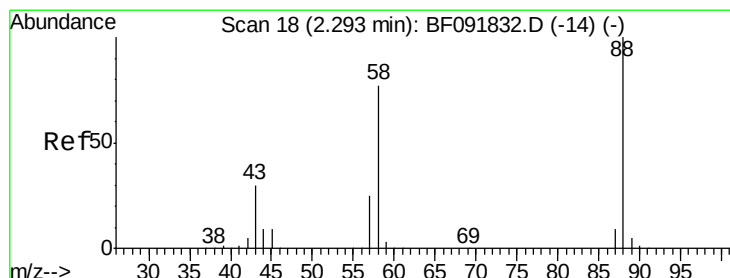
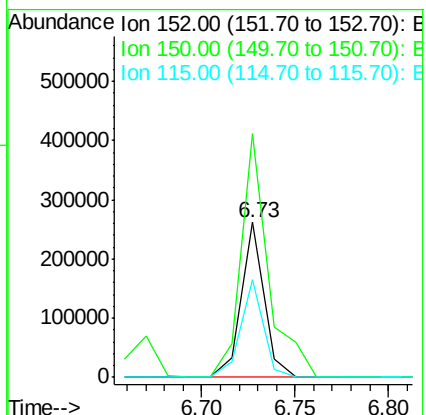
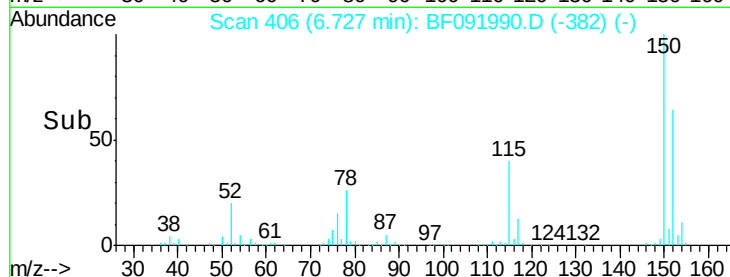
115 62.9 46.0 69.0



Abundance Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

Ion 115.00 (114.70 to 115.70): E



#2

1,4-Dioxane

Concen: 35.39 ng

RT: 2.32 min Scan# 20

Delta R.T. 0.02 min

Lab File: BF091990.D

Acq: 28 Dec 2016 3:39

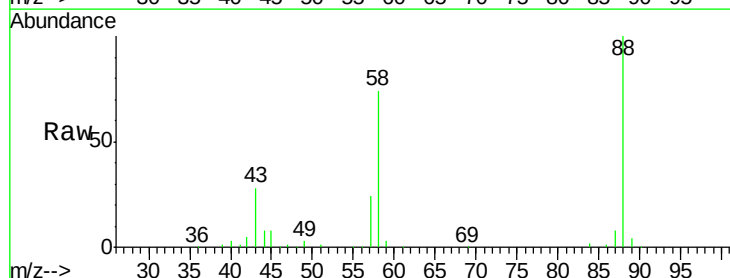
Tgt Ion: 88 Resp: 232316

Ion Ratio Lower Upper

88 100

58 75.4 57.8 86.8

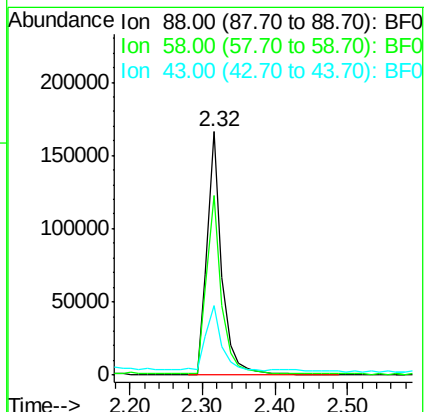
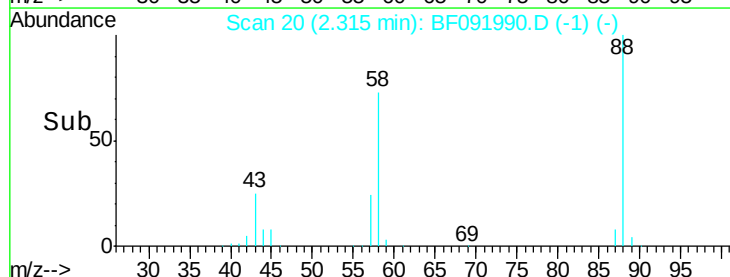
43 27.9 22.3 33.5

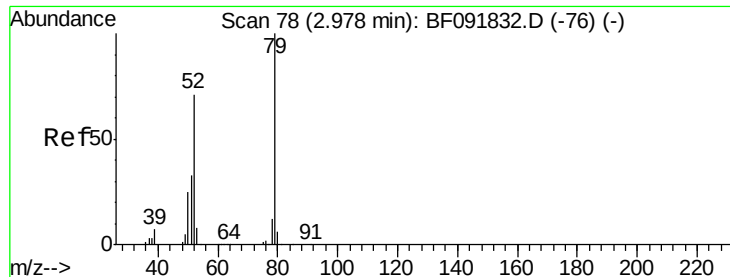


Abundance Ion 88.00 (87.70 to 88.70): BF0

Ion 58.00 (57.70 to 58.70): BF0

Ion 43.00 (42.70 to 43.70): BF0





#3

Pyridine

Concen: 28.09 ng

RT: 2.99 min Scan# 79

Delta R.T. 0.01 min

Lab File: BF091990.D

Acq: 28 Dec 2016 3:39

Instrument :

BNA_F

ClientSampleId :

PB95631BS

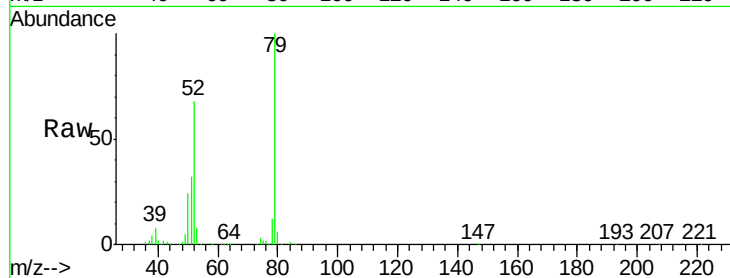
Tgt Ion: 79 Resp: 643596

Ion Ratio Lower Upper

79 100

52 67.8 57.1 85.7

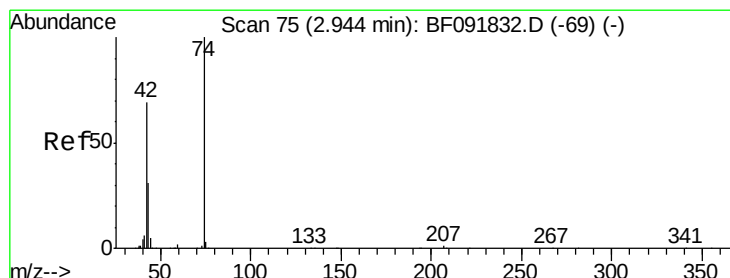
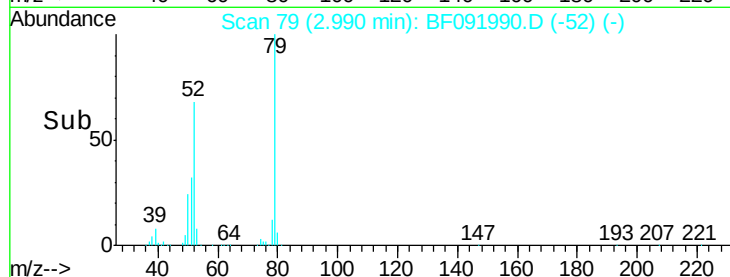
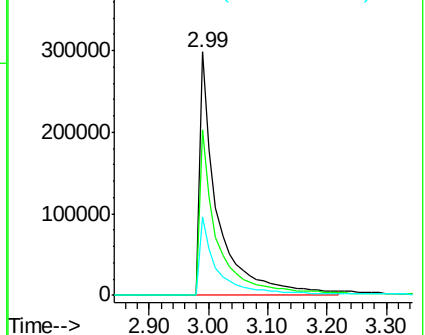
51 32.5 27.3 40.9



Abundance Ion 79.00 (78.70 to 79.70): BF0

Ion 52.00 (51.70 to 52.70): BF0

Ion 51.00 (50.70 to 51.70): BF0



#4

n-Nitrosodimethylamine

Concen: 38.82 ng

RT: 2.94 min Scan# 75

Delta R.T. -0.00 min

Lab File: BF091990.D

Acq: 28 Dec 2016 3:39

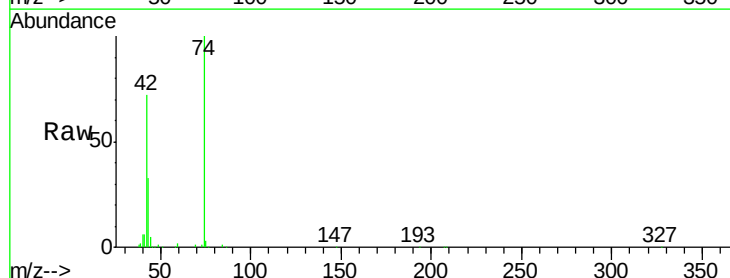
Tgt Ion: 42 Resp: 335476

Ion Ratio Lower Upper

42 100

74 139.6 117.0 175.4

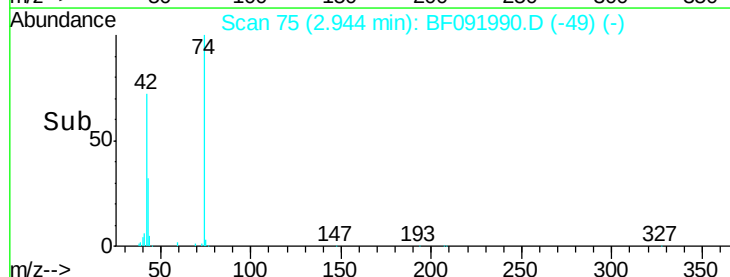
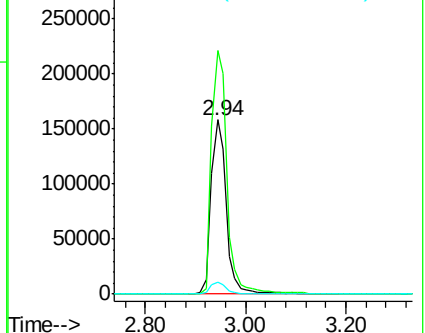
44 7.1 5.5 8.3

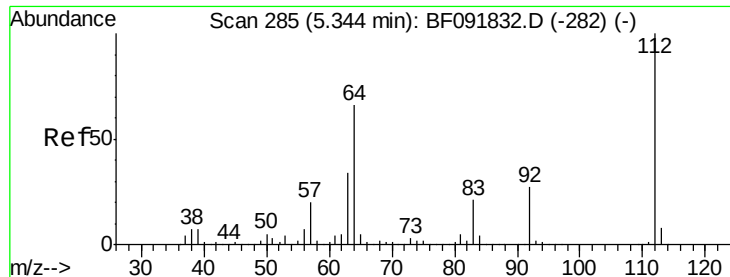


Abundance Ion 42.00 (41.70 to 42.70): BF0

Ion 74.00 (73.70 to 74.70): BF0

Ion 44.00 (43.70 to 44.70): BF0

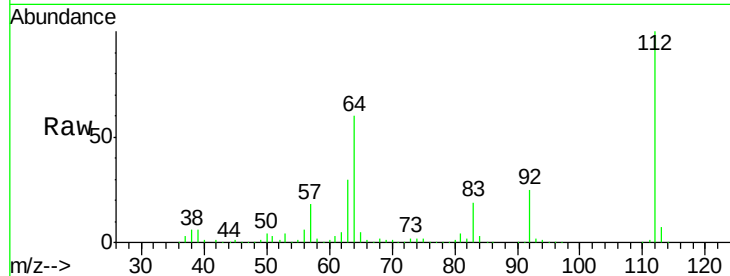




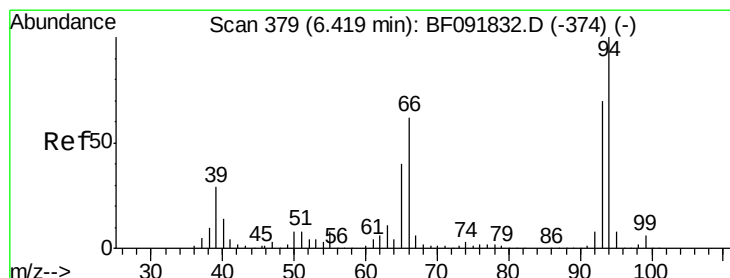
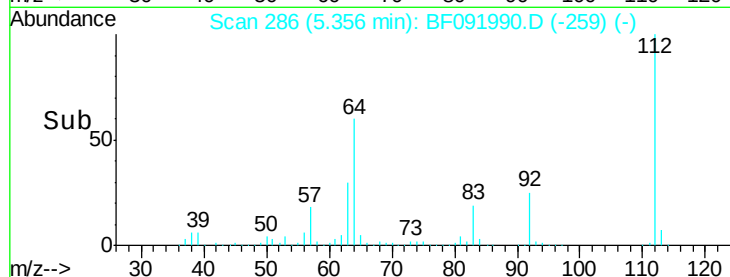
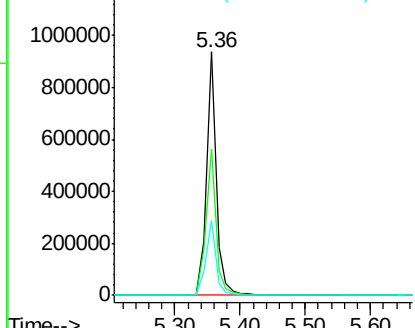
#5
 2-Fluorophenol
 Concen: 73.24 ng
 RT: 5.36 min Scan# 286
 Delta R.T. 0.01 min
 Lab File: BF091990.D
 Acq: 28 Dec 2016 3:39

Instrument :
 BNA_F
 ClientSampleId :
 PB95631BS

Tgt Ion: 112 Resp: 976511
 Ion Ratio Lower Upper
 112 100
 64 59.9 46.1 69.1
 63 30.5 23.8 35.6

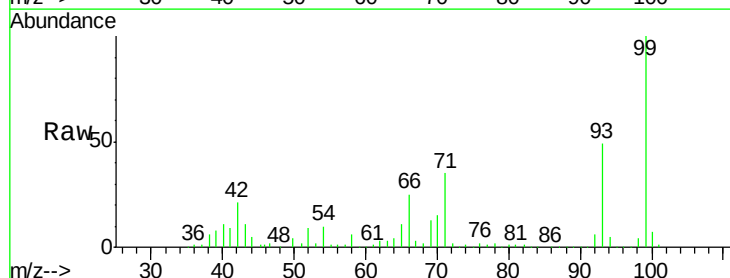


Abundance Ion 112.00 (111.70 to 112.70): E
 Ion 64.00 (63.70 to 64.70): BF0
 Ion 63.00 (62.70 to 63.70): BF0

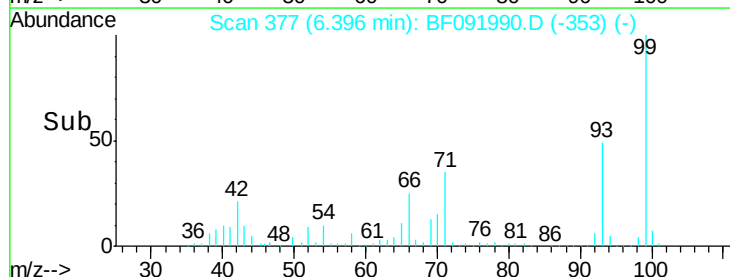
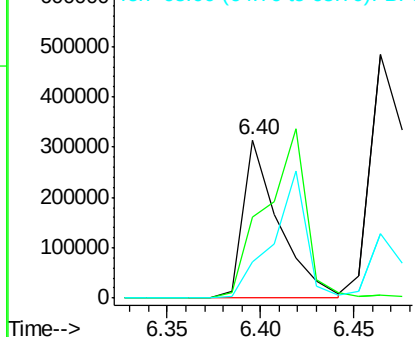


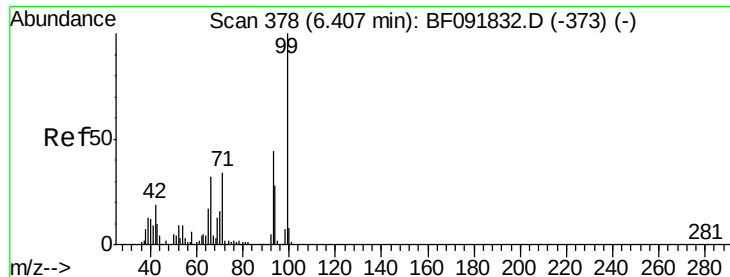
#6
 Aniline
 Concen: 20.06 ng
 RT: 6.40 min Scan# 377
 Delta R.T. -0.02 min
 Lab File: BF091990.D
 Acq: 28 Dec 2016 3:39

Tgt Ion: 93 Resp: 424010
 Ion Ratio Lower Upper
 93 100
 66 51.2 76.2 114.2#
 65 23.1 49.3 73.9#



Abundance Ion 93.00 (92.70 to 93.70): BF0
 Ion 66.00 (65.70 to 66.70): BF0
 Ion 65.00 (64.70 to 65.70): BF0





#7

Phenol-d6

Concen: 74.01 ng

RT: 6.41 min Scan# 378

Delta R.T. -0.00 min

Lab File: BF091990.D

Acq: 28 Dec 2016 3:39

Instrument :

BNA_F

ClientSampleId :

PB95631BS

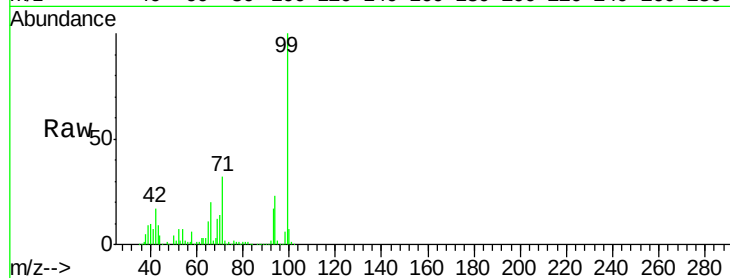
Tgt Ion: 99 Resp: 1204681

Ion Ratio Lower Upper

99 100

42 17.1 15.6 23.4

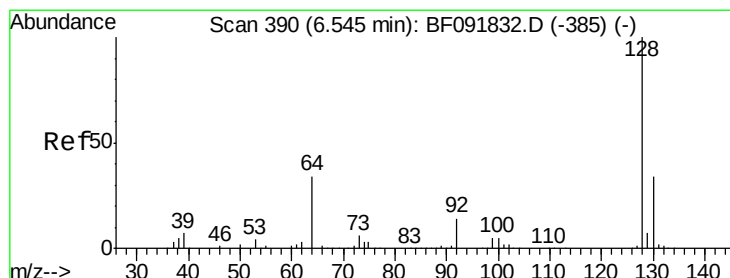
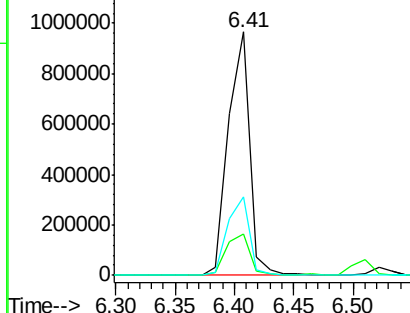
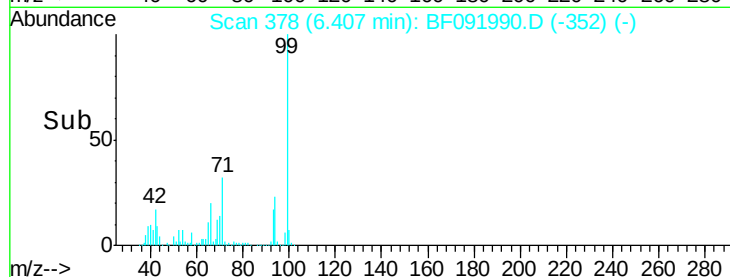
71 32.1 27.5 41.3



Abundance Ion 99.00 (98.70 to 99.70): BF0

Ion 42.00 (41.70 to 42.70): BF0

Ion 71.00 (70.70 to 71.70): BF0



#8

2-Chlorophenol

Concen: 41.03 ng

RT: 6.52 min Scan# 388

Delta R.T. -0.02 min

Lab File: BF091990.D

Acq: 28 Dec 2016 3:39

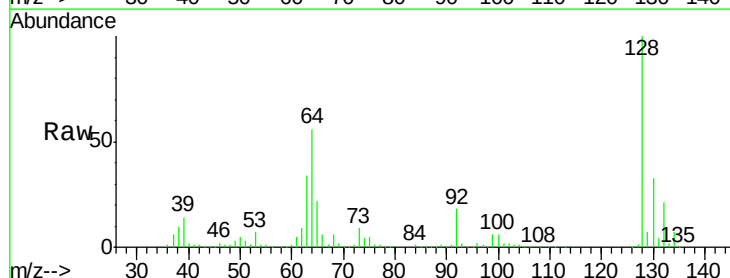
Tgt Ion: 128 Resp: 622274

Ion Ratio Lower Upper

128 100

130 32.6 12.3 52.3

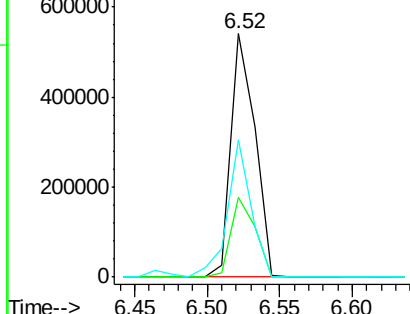
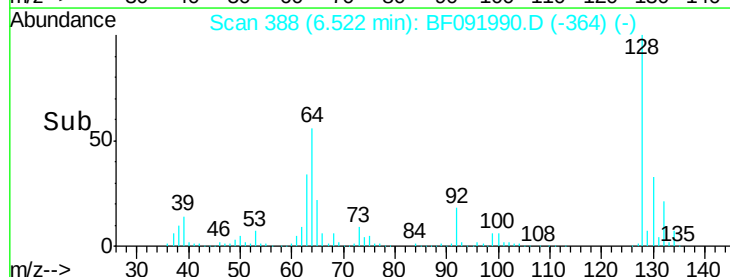
64 56.3 32.2 72.2

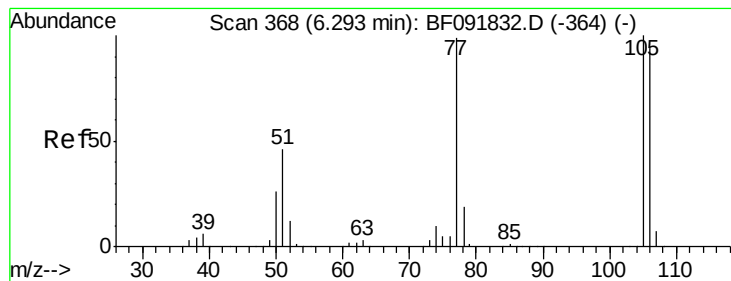


Abundance Ion 128.00 (127.70 to 128.70): E

Ion 130.00 (129.70 to 130.70): E

Ion 64.00 (63.70 to 64.70): BF0





#9

Benzaldehyde

Concen: 5.56 ng

RT: 6.27 min Scan# 366

Delta R.T. -0.02 min

Lab File: BF091990.D

Acq: 28 Dec 2016 3:39

Instrument :

BNA_F

ClientSampleId :

PB95631BS

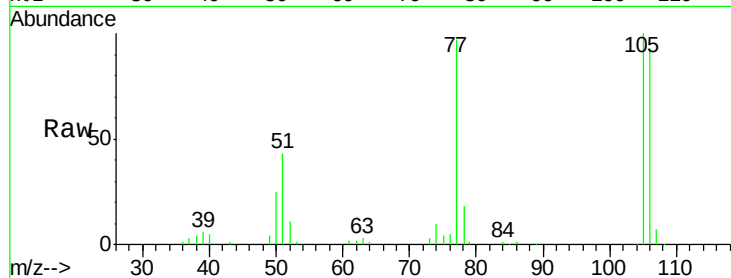
Tgt Ion: 77 Resp: 69461

Ion Ratio Lower Upper

77 100

105 102.9 83.9 123.9

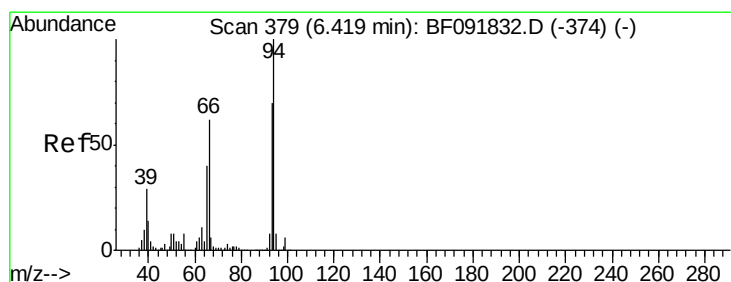
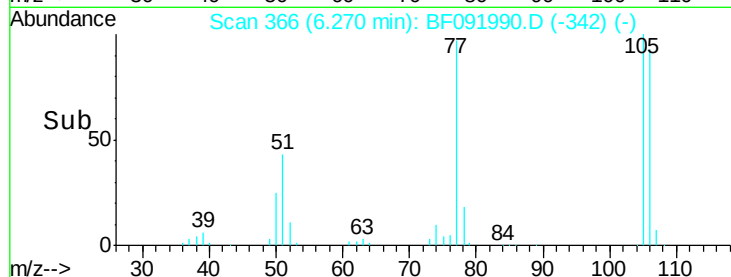
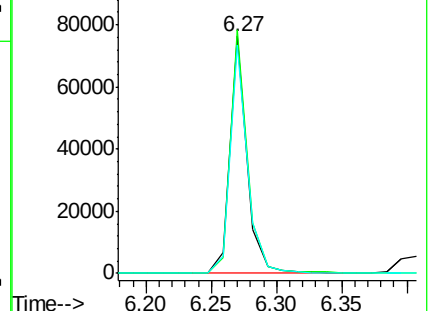
106 96.2 77.6 117.6



Abundance Ion 77.00 (76.70 to 77.70): BF0

Ion 105.00 (104.70 to 105.70): BF0

Ion 106.00 (105.70 to 106.70): BF0



#10

Phenol

Concen: 49.42 ng

RT: 6.42 min Scan# 379

Delta R.T. -0.00 min

Lab File: BF091990.D

Acq: 28 Dec 2016 3:39

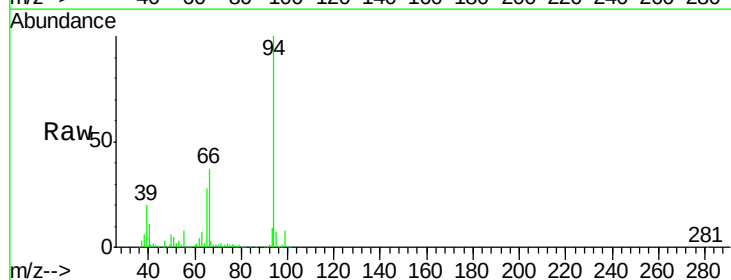
Tgt Ion: 94 Resp: 916700

Ion Ratio Lower Upper

94 100

65 27.5 21.4 61.4

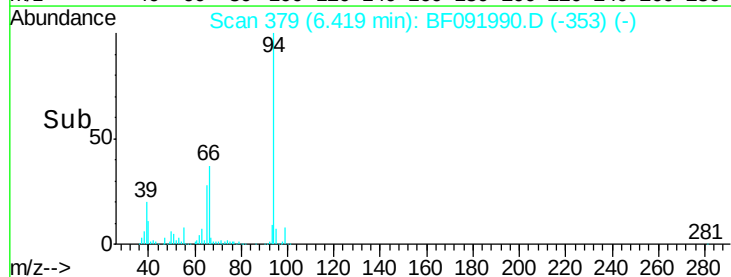
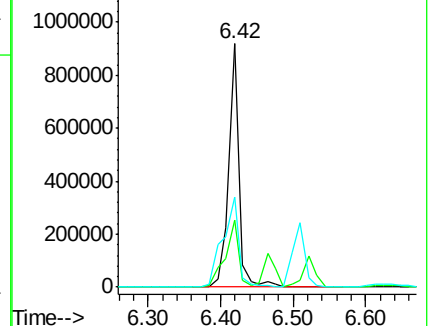
66 36.8 44.0 84.0#

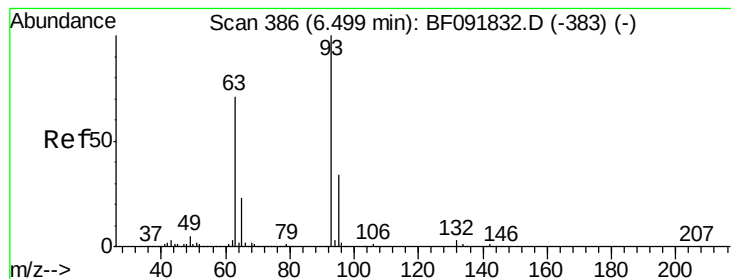


Abundance Ion 94.00 (93.70 to 94.70): BF0

Ion 65.00 (64.70 to 65.70): BF0

Ion 66.00 (65.70 to 66.70): BF0





#11

bis(2-Chloroethyl)ether

Concen: 40.45 ng

RT: 6.46 min Scan# 383

Delta R.T. -0.03 min

Lab File: BF091990.D

Acq: 28 Dec 2016 3:39

Instrument :

BNA_F

ClientSampleId :

PB95631BS

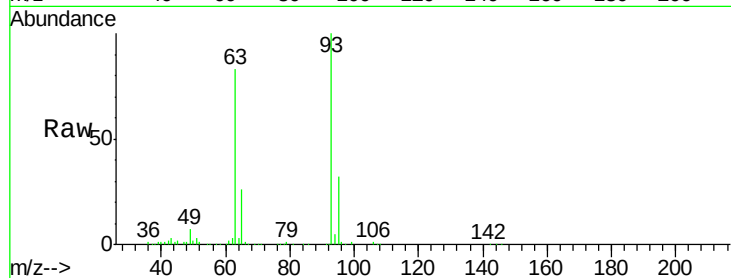
Tgt Ion: 93 Resp: 597014

Ion Ratio Lower Upper

93 100

63 83.3 60.4 100.4

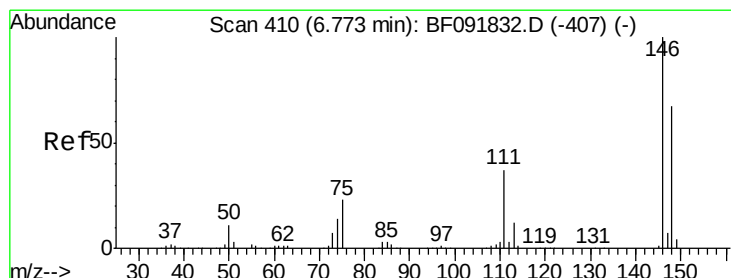
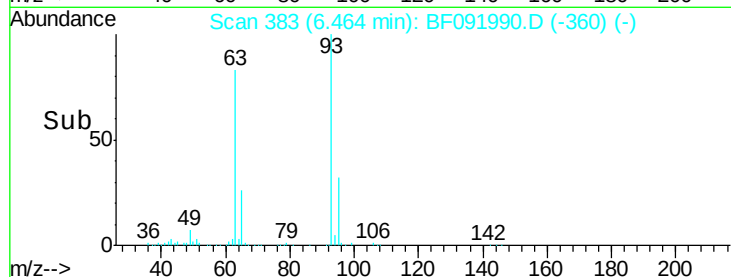
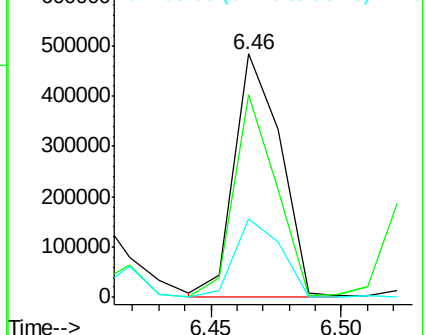
95 32.3 12.8 52.8



Abundance Ion 93.00 (92.70 to 93.70): BF0

Ion 63.00 (62.70 to 63.70): BF0

Ion 95.00 (94.70 to 95.70): BF0



#12

1,3-Dichlorobenzene

Concen: 42.19 ng

RT: 6.67 min Scan# 401

Delta R.T. -0.02 min

Lab File: BF091990.D

Acq: 28 Dec 2016 3:39

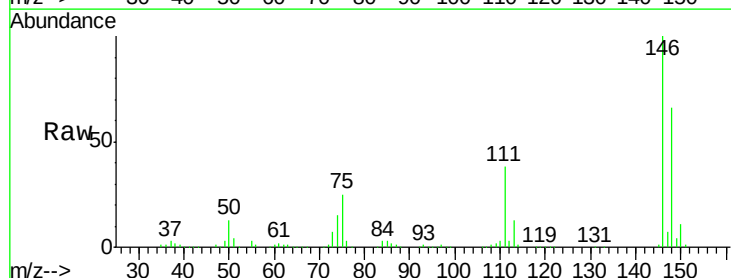
Tgt Ion: 146 Resp: 683108

Ion Ratio Lower Upper

146 100

148 66.2 53.4 80.0

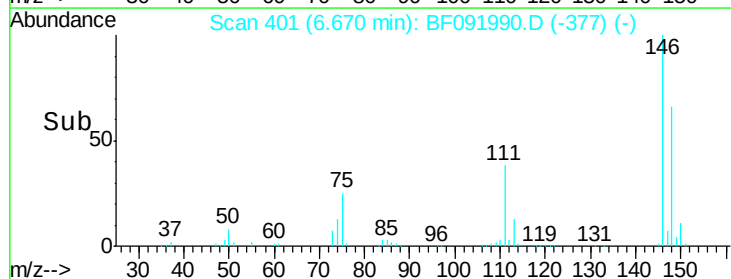
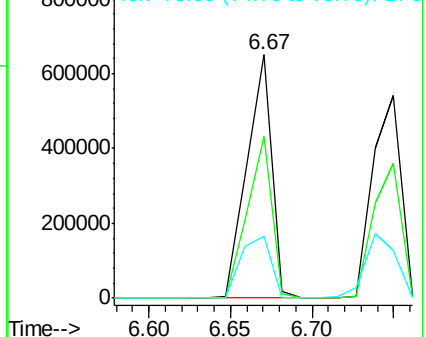
75 25.4 18.5 27.7

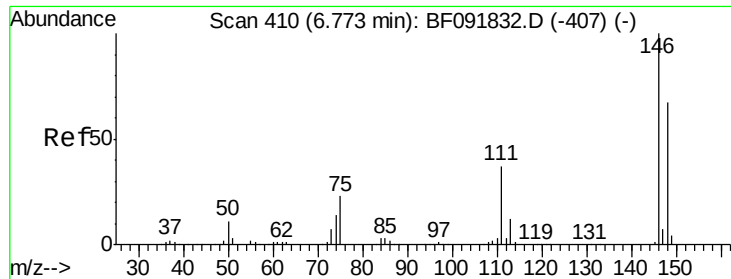


Abundance Ion 146.00 (145.70 to 146.70): E

Ion 148.00 (147.70 to 148.70): E

Ion 75.00 (74.70 to 75.70): BF0

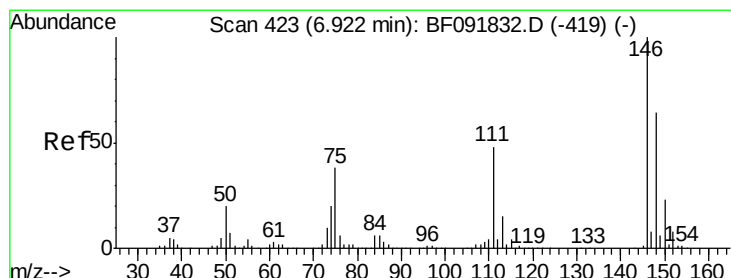
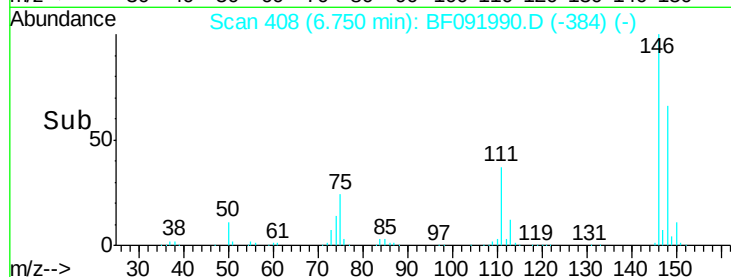
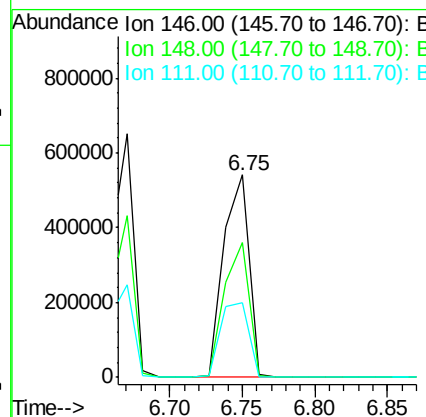
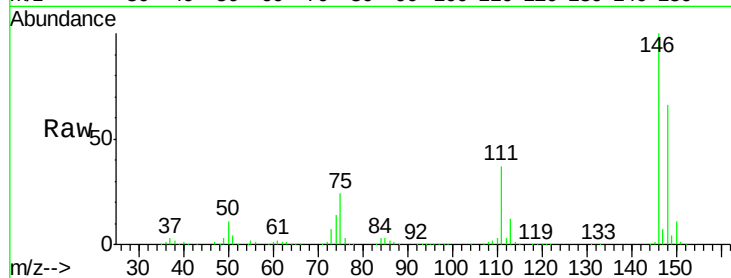




#13
 1,4-Dichlorobenzene
 Concen: 39.88 ng
 RT: 6.75 min Scan# 408
 Delta R.T. -0.02 min
 Lab File: BF091990.D
 Acq: 28 Dec 2016 3:39

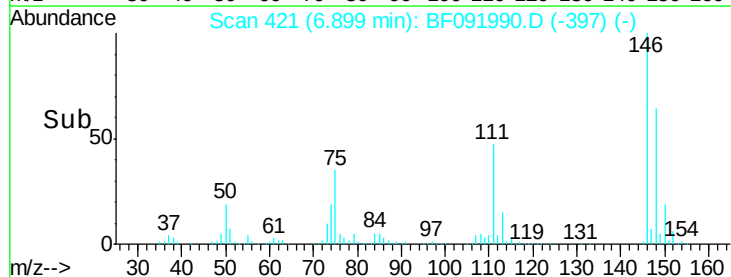
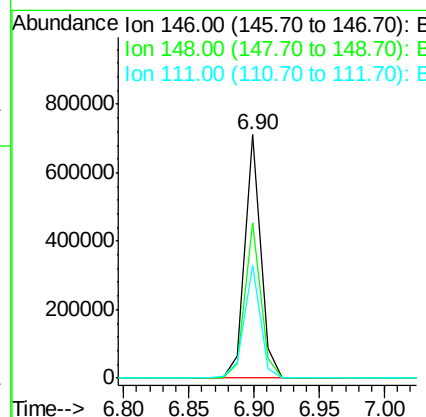
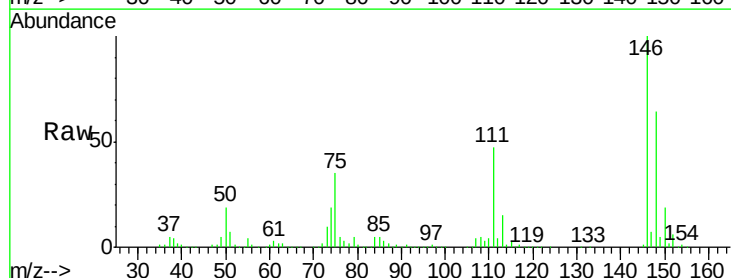
Instrument :
 BNA_F
 ClientSampleId :
 PB95631BS

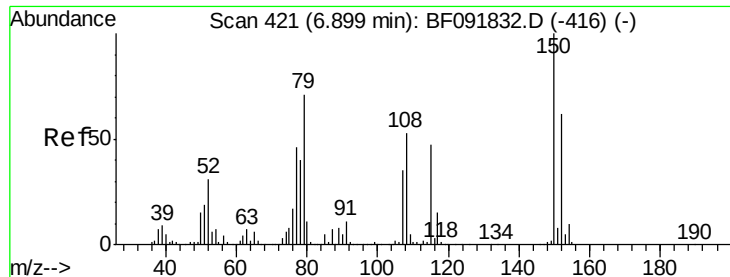
Tgt Ion:146 Resp: 657172
 Ion Ratio Lower Upper
 146 100
 148 66.4 50.6 76.0
 111 37.0 36.2 54.4



#14
 1,2-Dichlorobenzene
 Concen: 41.62 ng
 RT: 6.90 min Scan# 421
 Delta R.T. -0.02 min
 Lab File: BF091990.D
 Acq: 28 Dec 2016 3:39

Tgt Ion:146 Resp: 595173
 Ion Ratio Lower Upper
 146 100
 148 63.8 52.2 78.2
 111 46.6 36.2 54.2





#15

Benzyl Alcohol

Concen: 15.77 ng

RT: 6.89 min Scan# 420

Delta R.T. -0.01 min

Lab File: BF091990.D

Acq: 28 Dec 2016 3:39

Instrument :

BNA_F

ClientSampleId :

PB95631BS

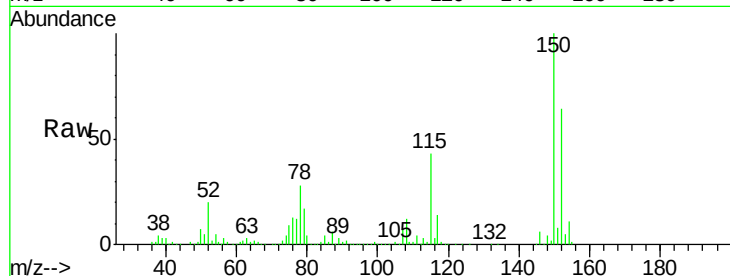
Tgt Ion: 79 Resp: 199433

Ion Ratio Lower Upper

79 100

108 71.3 61.4 92.0

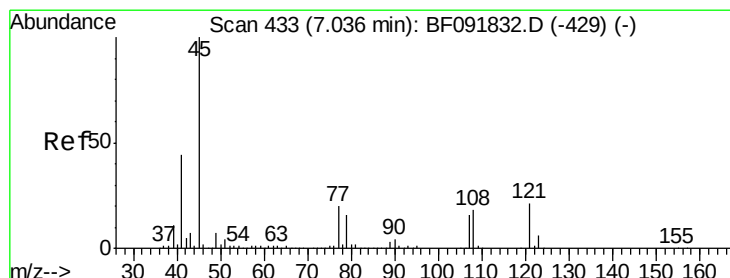
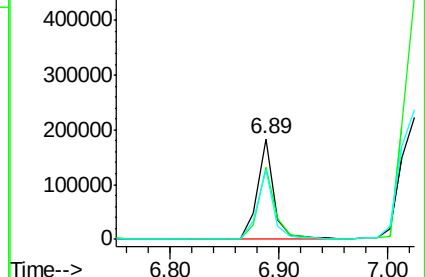
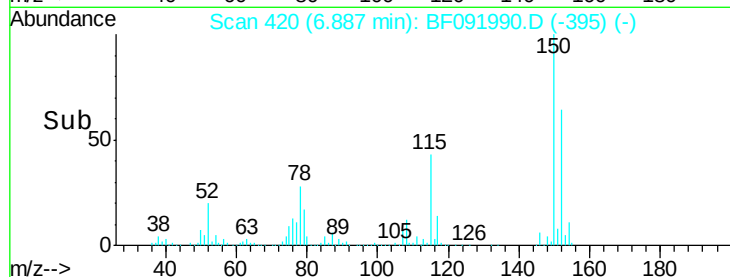
77 69.2 50.9 76.3



Abundance Ion 79.00 (78.70 to 79.70): BF0

Ion 108.00 (107.70 to 108.70): BF0

Ion 77.00 (76.70 to 77.70): BF0



#16

2,2'-oxybis(1-Chloropropane)

Concen: 36.65 ng

RT: 7.01 min Scan# 431

Delta R.T. -0.02 min

Lab File: BF091990.D

Acq: 28 Dec 2016 3:39

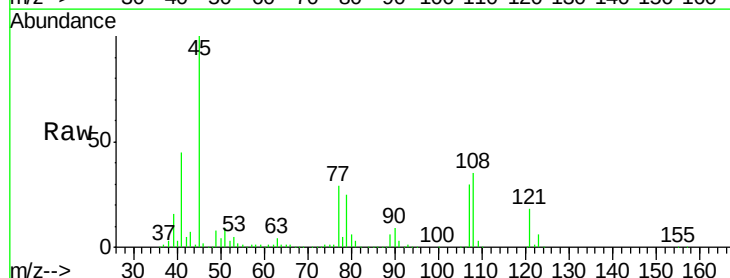
Tgt Ion: 45 Resp: 805565

Ion Ratio Lower Upper

45 100

77 28.8 0.0 34.6

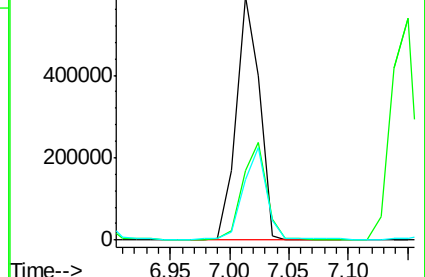
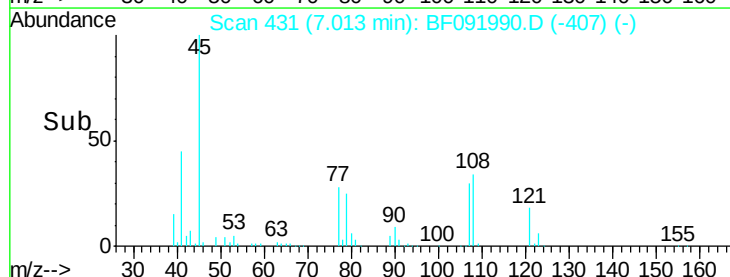
79 24.9 0.0 31.2

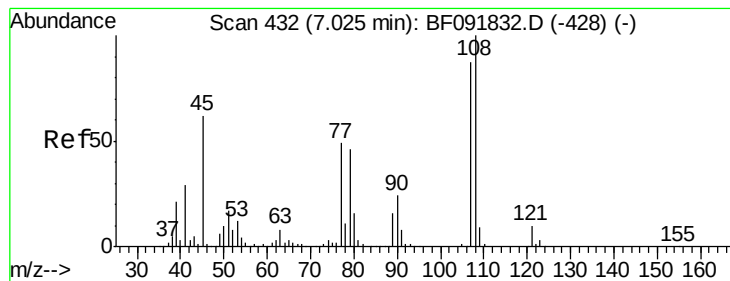


Abundance Ion 45.00 (44.70 to 45.70): BF0

Ion 77.00 (76.70 to 77.70): BF0

Ion 79.00 (78.70 to 79.70): BF0





#17

2-Methylphenol

Concen: 39.88 ng

RT: 7.02 min Scan# 432

Delta R.T. -0.00 min

Lab File: BF091990.D

Acq: 28 Dec 2016 3:39

Instrument :

BNA_F

ClientSampleId :

PB95631BS

Tgt Ion:107 Resp: 486361

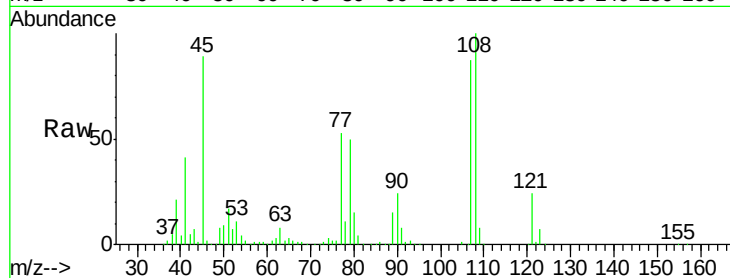
Ion Ratio Lower Upper

107 100

108 115.2 93.0 139.6

77 61.4 39.8 59.8#

79 57.8 38.0 57.0#



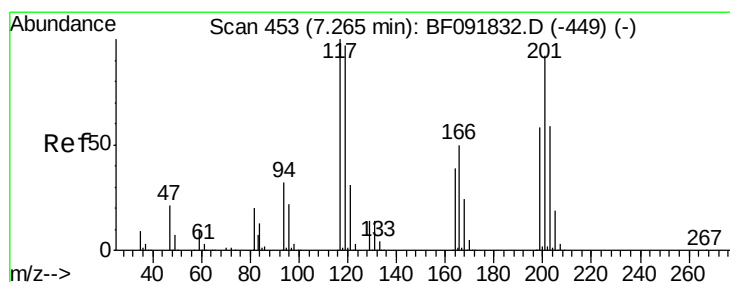
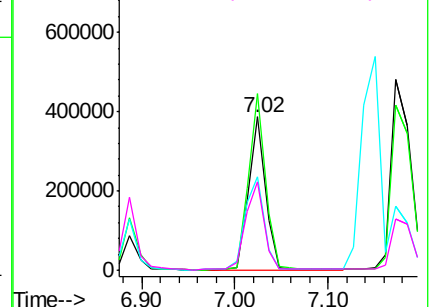
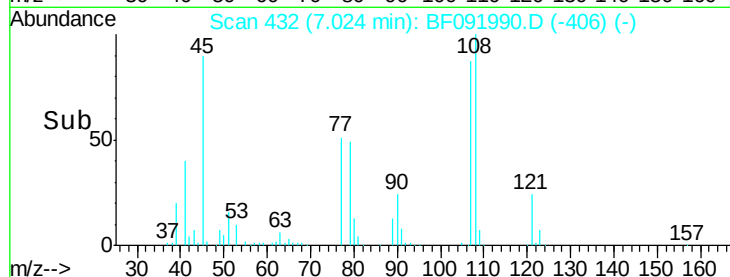
Abundance

Ion 107.00 (106.70 to 107.70): E

Ion 108.00 (107.70 to 108.70): E

Ion 77.00 (76.70 to 77.70): BF0

Ion 79.00 (78.70 to 79.70): BF0



#18

Hexachloroethane

Concen: 41.61 ng

RT: 7.24 min Scan# 451

Delta R.T. -0.02 min

Lab File: BF091990.D

Acq: 28 Dec 2016 3:39

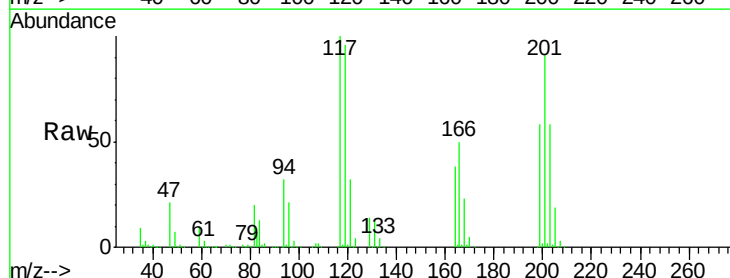
Tgt Ion:117 Resp: 254226

Ion Ratio Lower Upper

117 100

119 96.1 78.1 117.1

201 91.4 78.6 117.8



Abundance

Ion 117.00 (116.70 to 117.70): E

Ion 119.00 (118.70 to 119.70): E

Ion 201.00 (200.70 to 201.70): E

