

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF092116\
 Data File : BF090162.D
 Acq On : 21 Sep 2016 15:58
 Operator : UM/SJ
 Sample : PB93510BSD
 Misc :
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 PB93510BSD

Quant Time: Sep 22 01:52:47 2016
 Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF092016.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Sep 20 17:58:29 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.50	152	169044	20.00	ng	-0.02
21) Naphthalene-d8	7.79	136	664129	20.00	ng	-0.02
38) Acenaphthene-d10	9.54	164	366792	20.00	ng	-0.01
63) Phenanthrene-d10	11.00	188	497338	20.00	ng	-0.02
75) Chrysene-d12	13.62	240	300630	20.00	ng	-0.01
86) Perylene-d12	14.94	264	317836	20.00	ng	-0.02

System Monitoring Compounds						
5) 2-Fluorophenol	5.08	112	1268868	122.35	ng	0.01
7) Phenol-d6	6.17	99	1601825	125.07	ng	0.00
23) Nitrobenzene-d5	7.08	82	1049318	91.59	ng	-0.01
41) 2,4,6-Tribromophenol	10.33	330	369430	117.40	ng	-0.01
44) 2-Fluorobiphenyl	8.88	172	1546411	82.77	ng	-0.01
78) Terphenyl-d14	12.59	244	1286375	108.64	ng	-0.01

Target Compounds				Qvalue		
2) 1,4-Dioxane	1.99	88	197805	35.15	ng	99
3) Pyridine	2.57	79	556514	45.61	ng	97
4) n-Nitrosodimethylamine	2.54	42	172422	47.35	ng	93
6) Aniline	6.17	93	452292	28.33	ng	# 92
8) 2-Chlorophenol	6.30	128	524912	43.99	ng	85
9) Benzaldehyde	6.04	77	49549	8.88	ng	97
10) Phenol	6.18	94	627186	41.42	ng	# 74
11) bis(2-Chloroethyl)ether	6.26	93	532728	45.12	ng	91
12) 1,3-Dichlorobenzene	6.44	146	519889	41.70	ng	99
13) 1,4-Dichlorobenzene	6.52	146	554111	43.53	ng	100
14) 1,2-Dichlorobenzene	6.52	146	550968	48.59	ng	95
15) Benzyl Alcohol	6.67	79	386097	50.55	ng	90
16) 2,2'-oxybis(1-Chloropropan	6.81	45	613829	43.51	ng	95
17) 2-Methylphenol	6.80	107	448974	47.77	ng	96
18) Hexachloroethane	7.02	117	195876	43.15	ng	97
19) n-Nitroso-di-n-propylamine	6.95	70	354467	47.11	ng	100
20) 3+4-Methylphenols	6.95	107	537981	47.67	ng	95
22) Acetophenone	6.94	105	683885	42.70	ng	99
24) Nitrobenzene	7.10	77	508936	42.63	ng	99
25) Isophorone	7.35	82	1055068	44.08	ng	100
26) 2-Nitrophenol	7.42	139	270858	46.08	ng	99
27) 2,4-Dimethylphenol	7.47	122	467931	44.81	ng	99
28) bis(2-Chloroethoxy)methane	7.56	93	633057	43.72	ng	100
29) 2,4-Dichlorophenol	7.67	162	439749	48.01	ng	95
30) 1,2,4-Trichlorobenzene	7.75	180	430023	47.00	ng	94
31) Naphthalene	7.82	128	1406513	44.48	ng	100
32) Benzoic acid	7.63	122	278712	38.88	ng	93
33) 4-Chloroaniline	7.87	127	251998	19.21	ng	99
34) Hexachlorobutadiene	7.94	225	207444	42.98	ng	100
35) Caprolactam	8.26	113	85353	28.15	ng	99
36) 4-Chloro-3-methylphenol	8.38	107	469826	45.38	ng	98
37) 2-Methylnaphthalene	8.51	142	965218	49.08	ng	97
39) 1,2,4,5-Tetrachlorobenzene	8.67	216	289404	34.37	ng	99
40) Hexachlorocyclopentadiene	8.66	237	347814	83.72	ng	99

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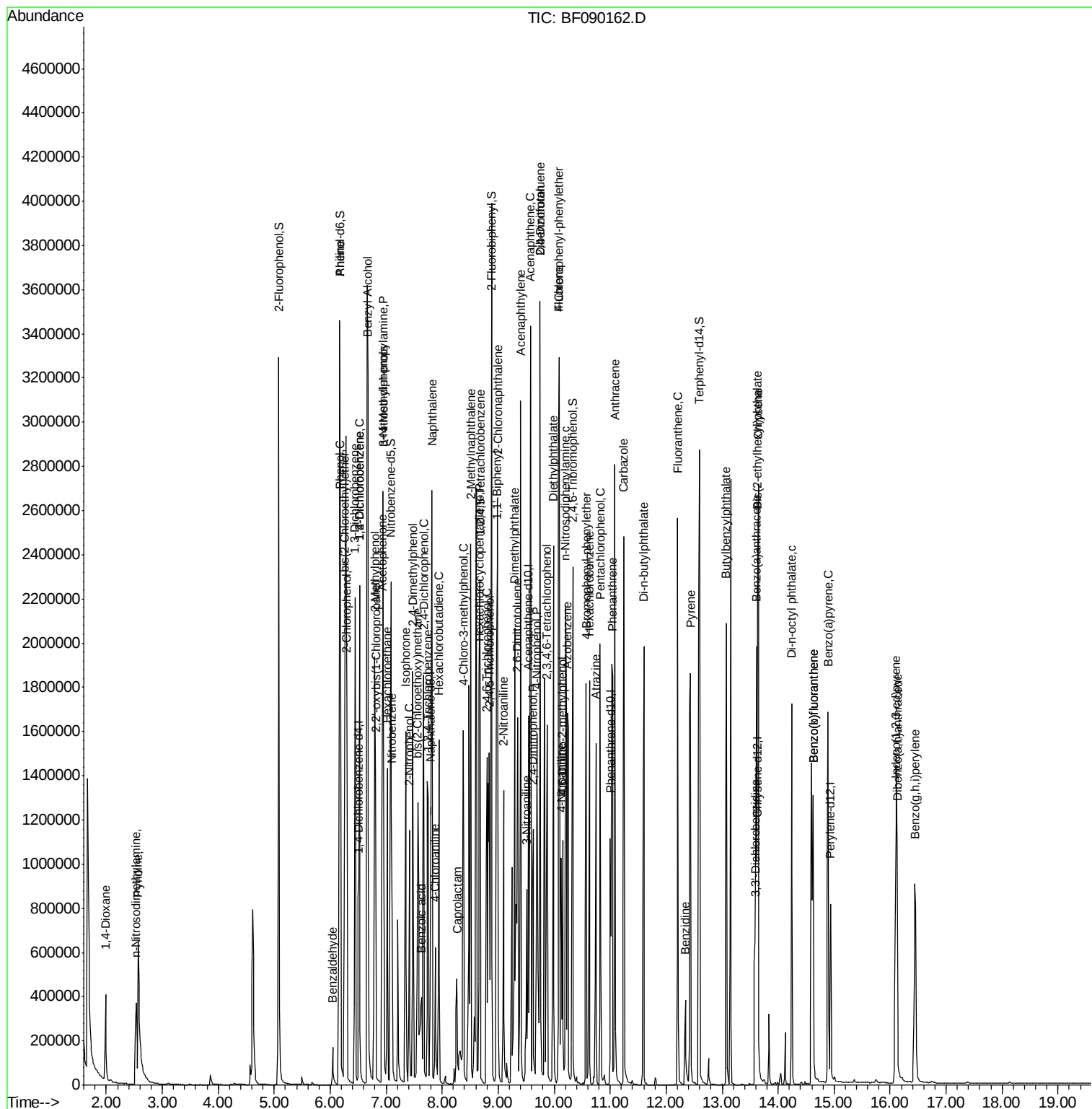
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
42) 2,4,6-Trichlorophenol	8.80	196	291122	48.52	ng	99
43) 2,4,5-Trichlorophenol	8.84	196	279636	45.01	ng	96
45) 1,1'-Biphenyl	8.98	154	1001577	38.17	ng	94
46) 2-Chloronaphthalene	8.99	162	805585	41.61	ng	98
47) 2-Nitroaniline	9.10	65	267249	45.79	ng	84
48) Acenaphthylene	9.40	152	1335722	42.49	ng	99
49) Dimethylphthalate	9.29	163	962043	41.18	ng	99
50) 2,6-Dinitrotoluene	9.35	165	255158	49.00	ng	# 79
51) Acenaphthene	9.58	154	803305	43.05	ng	100
52) 3-Nitroaniline	9.51	138	179122	29.34	ng	97
53) 2,4-Dinitrophenol	9.62	184	248581	85.14	ng	# 90
54) Dibenzofuran	9.75	168	1080163	43.98	ng	94
55) 4-Nitrophenol	9.69	139	316636	75.71	ng	85
56) 2,4-Dinitrotoluene	9.75	165	286415	46.52	ng	91
57) Fluorene	10.09	166	894958	48.35	ng	100
58) 2,3,4,6-Tetrachlorophenol	9.87	232	235818	50.70	ng	98
59) Diethylphthalate	9.99	149	980169	43.44	ng	98
60) 4-Chlorophenyl-phenylether	10.09	204	349113	41.36	ng	# 82
61) 4-Nitroaniline	10.12	138	270055	43.40	ng	91
62) Azobenzene	10.24	77	1140905	48.58	ng	98
64) 4,6-Dinitro-2-methylphenol	10.15	198	143352	46.02	ng	# 61
65) n-Nitrosodiphenylamine	10.20	169	833184	50.95	ng	99
66) 4-Bromophenyl-phenylether	10.57	248	237396	48.51	ng	# 91
67) Hexachlorobenzene	10.63	284	258317	45.29	ng	95
68) Atrazine	10.74	200	193361	43.15	ng	97
69) Pentachlorophenol	10.82	266	263523	81.40	ng	98
70) Phenanthrene	11.04	178	1164013	50.05	ng	99
71) Anthracene	11.08	178	1132112	46.41	ng	100
72) Carbazole	11.24	167	1159070	44.94	ng	99
73) Di-n-butylphthalate	11.60	149	1455837	48.55	ng	# 98
74) Fluoranthene	12.20	202	1030498	41.28	ng	99
76) Benzidine	12.34	184	258110	25.65	ng	97
77) Pyrene	12.43	202	1140381	55.43	ng	98
79) Butylbenzylphthalate	13.07	149	547842	54.44	ng	91
80) Benzo(a)anthracene	13.61	228	789408	48.81	ng	99
81) 3,3'-Dichlorobenzidine	13.59	252	213742	32.04	ng	# 97
82) Chrysene	13.65	228	693995	44.05	ng	99
83) Bis(2-ethylhexyl)phthalate	13.63	149	642816	49.92	ng	# 98
84) Di-n-octyl phthalate	14.24	149	1084531	48.89	ng	97
85) Indeno(1,2,3-cd)pyrene	16.10	276	881019	69.16	ng	98
87) Benzo(b)fluoranthene	14.63	252	1482155	84.21	ng	# 90
88) Benzo(k)fluoranthene	14.63	252	1483968	89.84	ng	# 97
89) Benzo(a)pyrene	14.89	252	767458	46.36	ng	# 96
90) Dibenzo(a,h)anthracene	16.13	278	737019	57.05	ng	96
91) Benzo(g,h,i)perylene	16.45	276	774382	61.24	ng	98

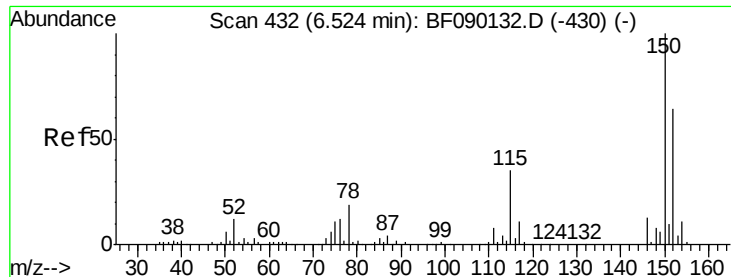
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 6.50 min Scan# 430

Delta R.T. -0.02 min

Lab File: BF090162.D

Acq: 21 Sep 2016 15:58

Instrument :

BNA_F

ClientSampleId :

PB93510BSD

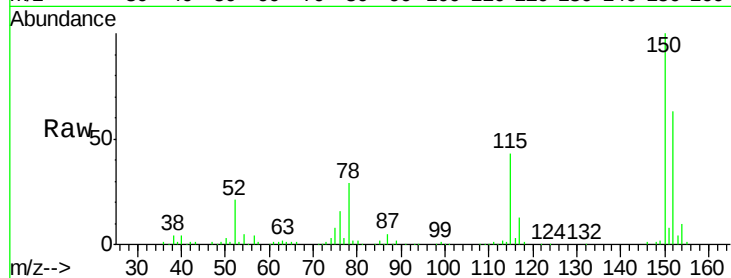
Tgt Ion:152 Resp: 169044

Ion Ratio Lower Upper

152 100

150 158.2 128.9 193.3

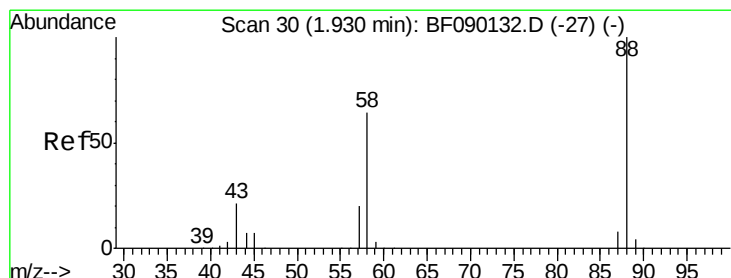
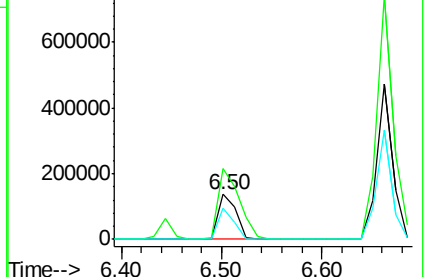
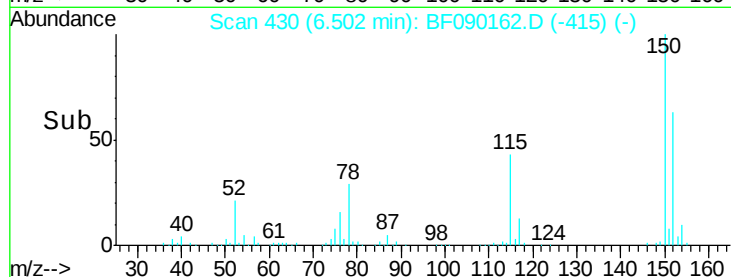
115 68.5 55.5 83.3



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: 35.15 ng

RT: 1.99 min Scan# 35

Delta R.T. 0.06 min

Lab File: BF090162.D

Acq: 21 Sep 2016 15:58

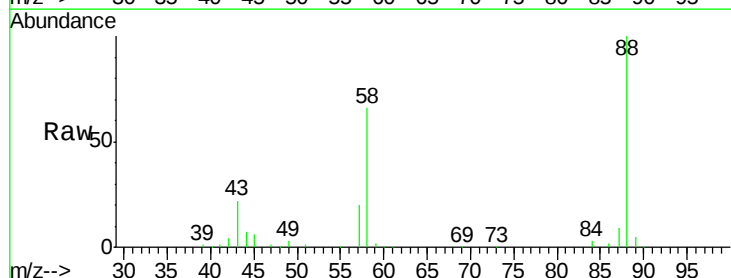
Tgt Ion: 88 Resp: 197805

Ion Ratio Lower Upper

88 100

58 66.9 53.4 80.0

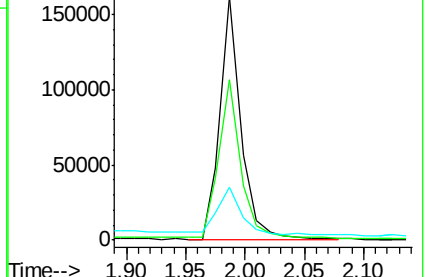
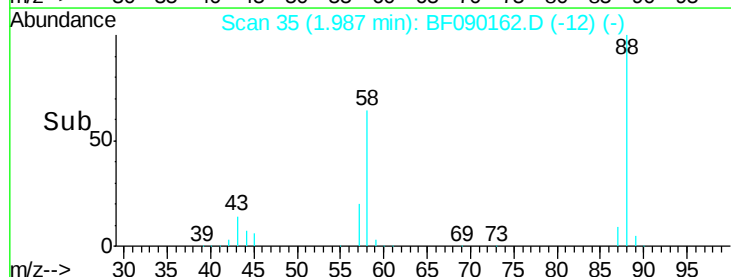
43 23.1 16.5 24.7

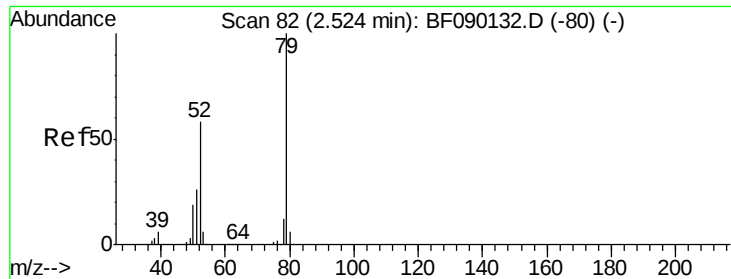


Abundance Ion 88.00 (87.70 to 88.70): BF0

Ion 58.00 (57.70 to 58.70): BF0

Ion 43.00 (42.70 to 43.70): BF0

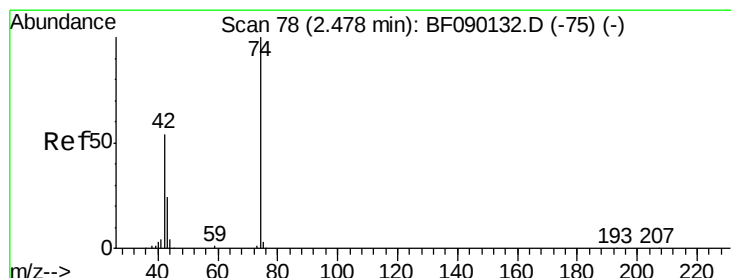
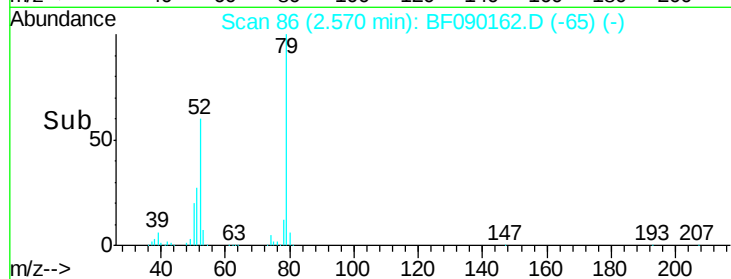
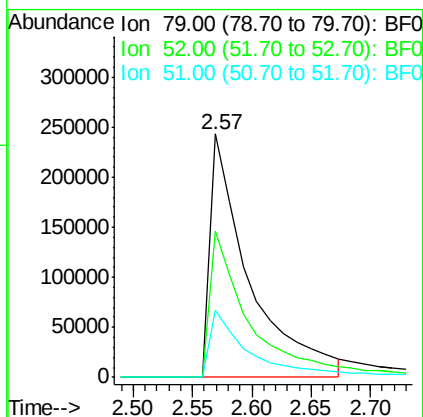
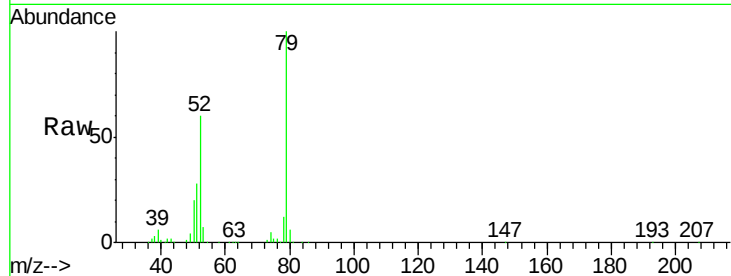




#3
 Pyridine
 Concen: 45.61 ng
 RT: 2.57 min Scan# 86
 Delta R.T. 0.05 min
 Lab File: BF090162.D
 Acq: 21 Sep 2016 15:58

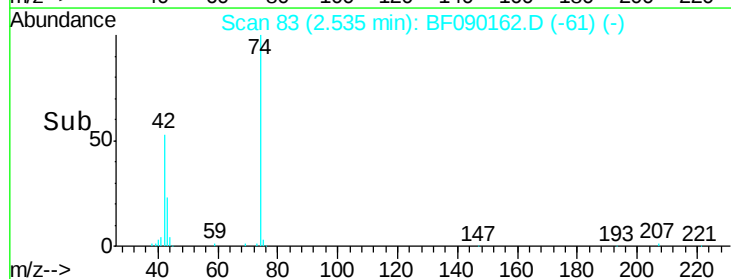
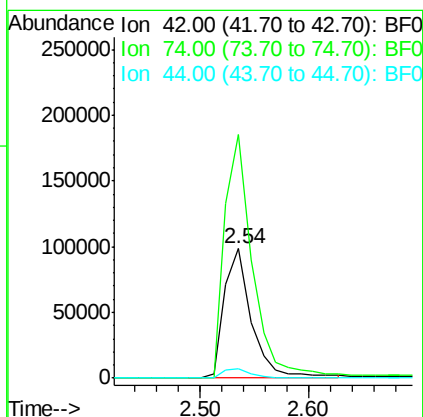
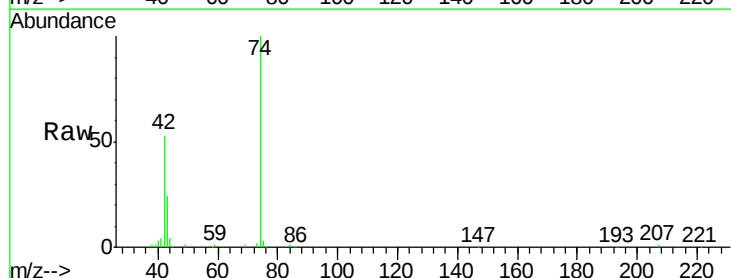
Instrument :
 BNA_F
 ClientSampleId :
 PB93510BSD

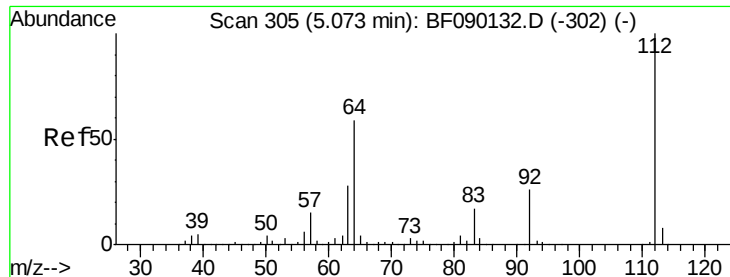
Tgt Ion: 79 Resp: 556514
 Ion Ratio Lower Upper
 79 100
 52 60.2 45.9 68.9
 51 27.5 21.3 31.9



#4
 n-Nitrosodimethylamine
 Concen: 47.35 ng
 RT: 2.54 min Scan# 83
 Delta R.T. 0.06 min
 Lab File: BF090162.D
 Acq: 21 Sep 2016 15:58

Tgt Ion: 42 Resp: 172422
 Ion Ratio Lower Upper
 42 100
 74 188.1 158.7 238.1
 44 7.7 6.4 9.6





#5

2-Fluorophenol

Concen: 122.35 ng

RT: 5.08 min Scan# 306

Delta R.T. 0.01 min

Lab File: BF090162.D

Acq: 21 Sep 2016 15:58

Instrument :

BNA_F

ClientSampleId :

PB93510BSD

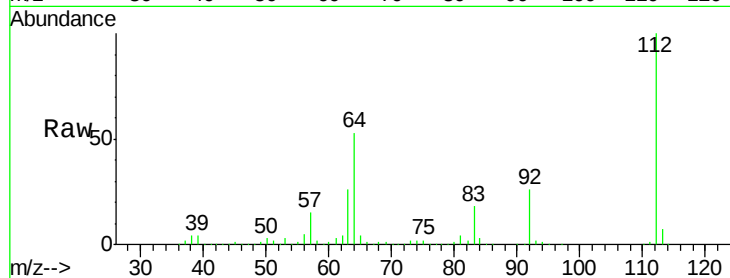
Tgt Ion: 112 Resp: 1268868

Ion Ratio Lower Upper

112 100

64 53.5 39.8 59.6

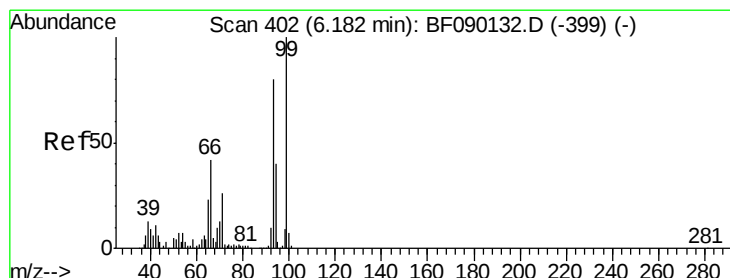
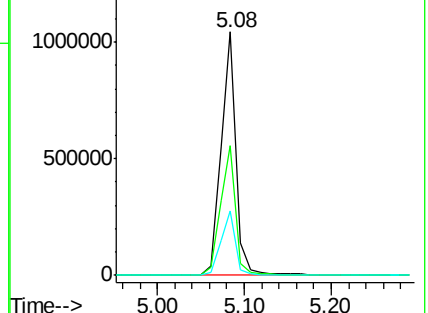
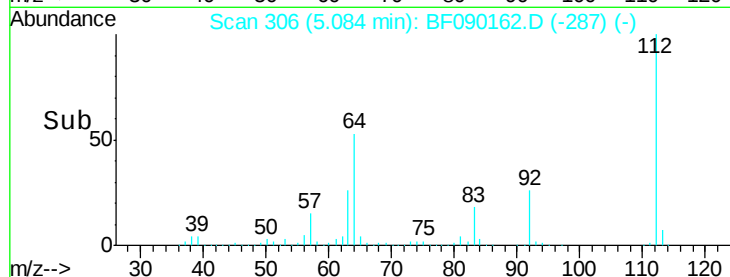
63 26.4 18.9 28.3



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: 28.33 ng

RT: 6.17 min Scan# 401

Delta R.T. -0.01 min

Lab File: BF090162.D

Acq: 21 Sep 2016 15:58

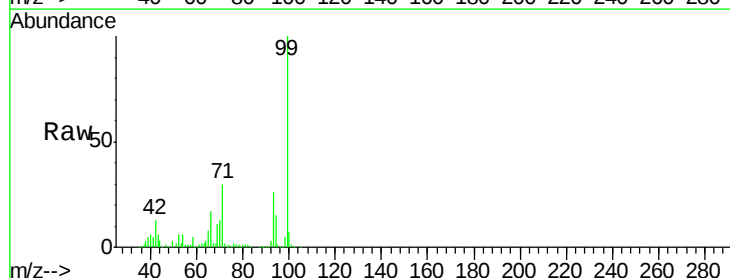
Tgt Ion: 93 Resp: 452292

Ion Ratio Lower Upper

93 100

66 65.9 54.2 81.2

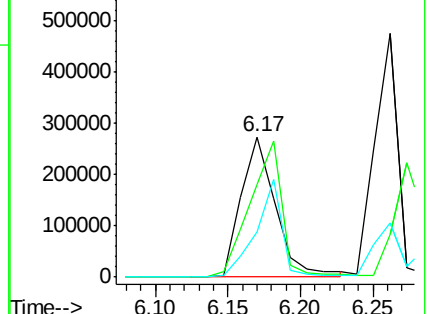
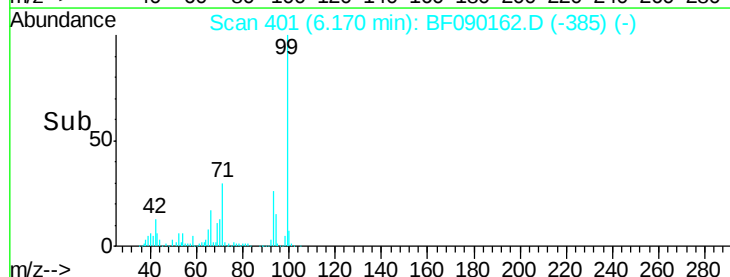
65 31.9 33.8 50.6#

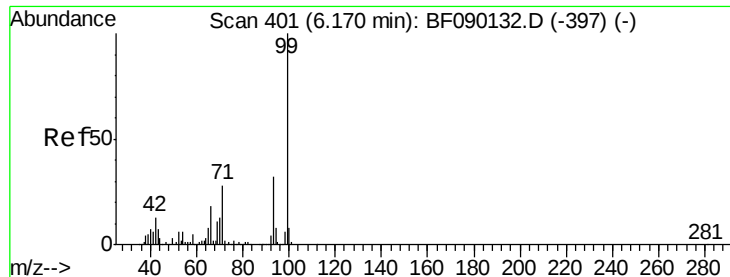


Abundance Ion 93.00 (92.70 to 93.70): BF0

Ion 66.00 (65.70 to 66.70): BF0

Ion 65.00 (64.70 to 65.70): BF0





#7

Phenol-d6

Concen: 125.07 ng

RT: 6.17 min Scan# 401

Delta R.T. -0.00 min

Lab File: BF090162.D

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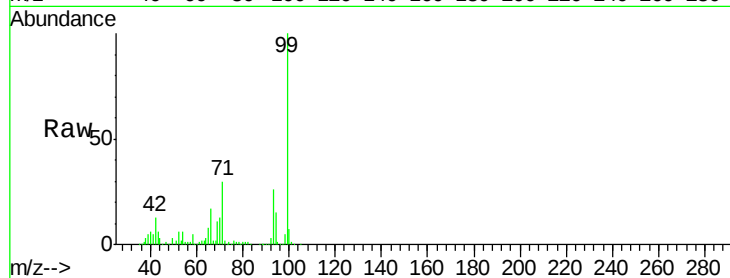
Tgt Ion: 99 Resp: 1601825

Ion Ratio Lower Upper

99 100

42 12.7 10.6 15.8

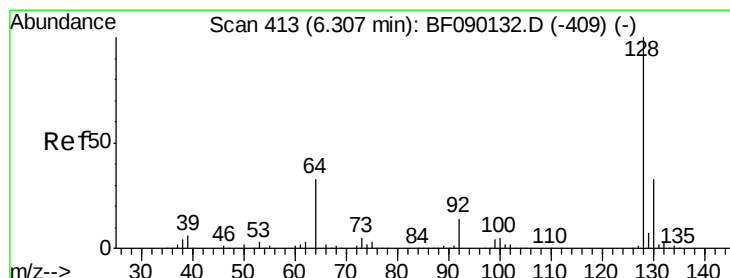
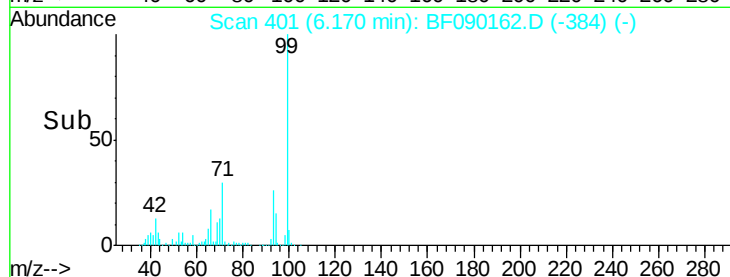
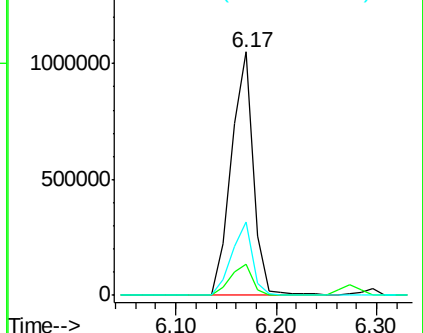
71 29.9 23.0 34.6



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: 43.99 ng

RT: 6.30 min Scan# 412

Delta R.T. -0.01 min

Lab File: BF090162.D

Acq: 21 Sep 2016 15:58

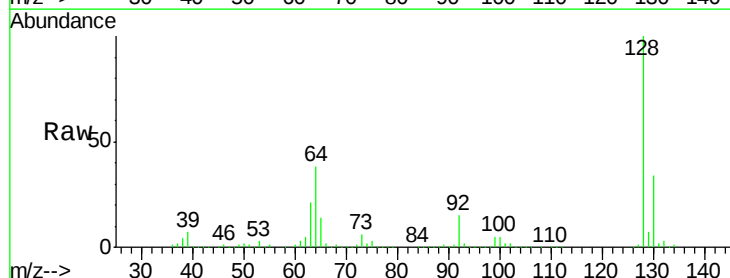
Tgt Ion: 128 Resp: 524912

Ion Ratio Lower Upper

128 100

130 33.9 12.0 52.0

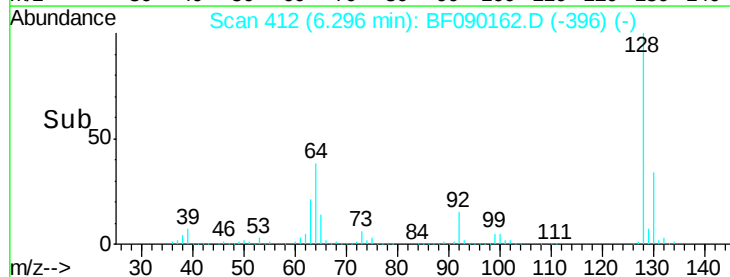
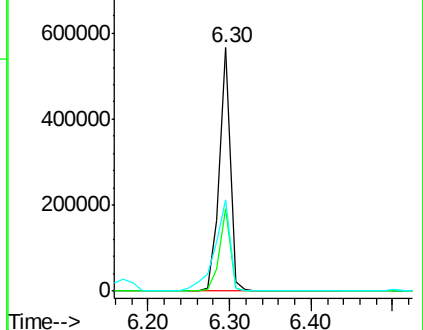
64 37.7 33.6 73.6

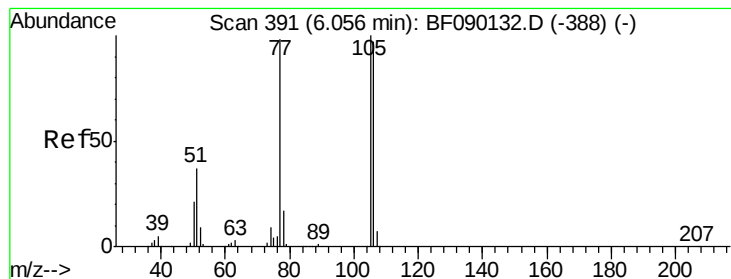


Abundance Ion 128.00 (127.70 to 128.70): E

Ion 130.00 (129.70 to 130.70): E

Ion 64.00 (63.70 to 64.70): BF0





#9

Benzaldehyde

Concen: 8.88 ng

RT: 6.04 min Scan# 390

Delta R.T. -0.01 min

Lab File: BF090162.D

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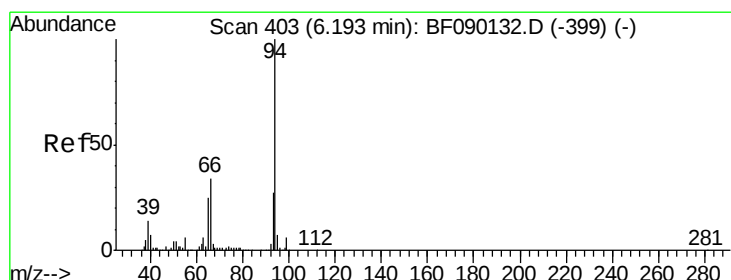
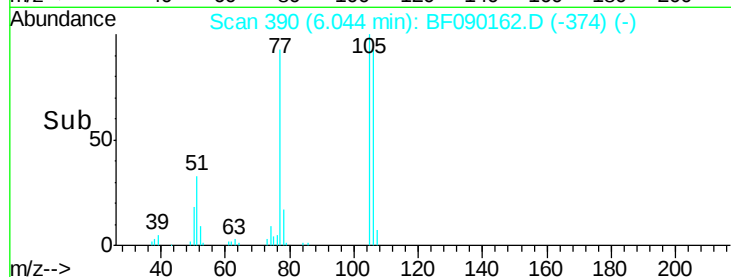
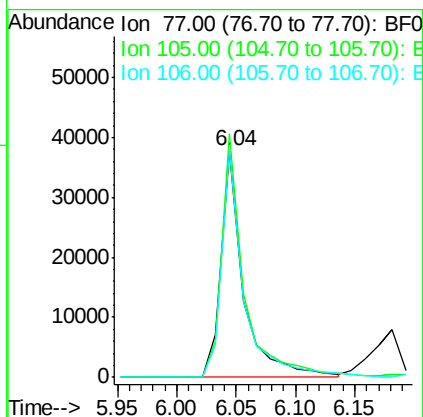
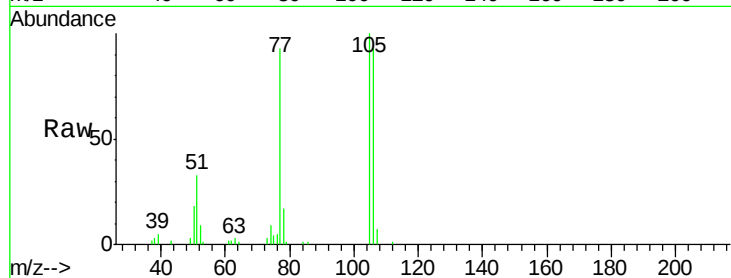
Tgt Ion: 77 Resp: 49549

Ion Ratio Lower Upper

77 100

105 107.6 83.0 123.0

106 100.3 78.5 118.5



#10

Phenol

Concen: 41.42 ng

RT: 6.18 min Scan# 402

Delta R.T. -0.01 min

Lab File: BF090162.D

Acq: 21 Sep 2016 15:58

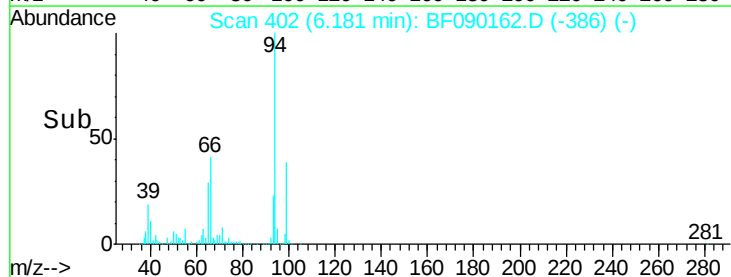
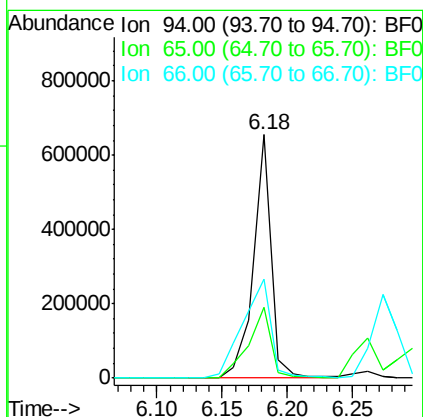
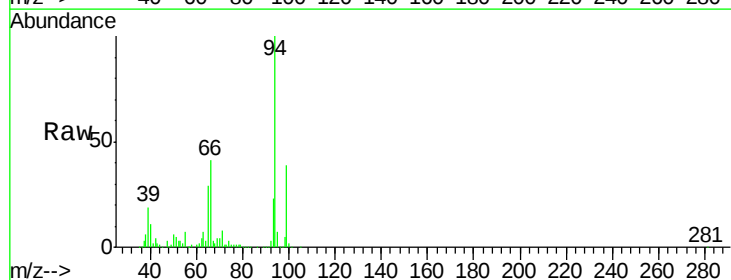
Tgt Ion: 94 Resp: 627186

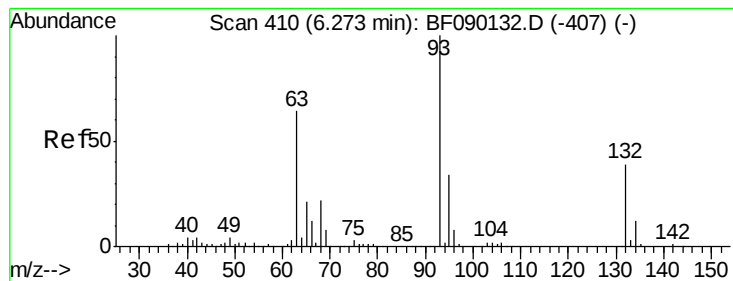
Ion Ratio Lower Upper

94 100

65 29.1 20.6 60.6

66 40.6 45.1 85.1#

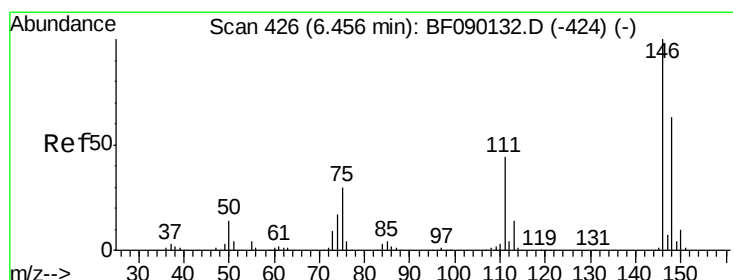
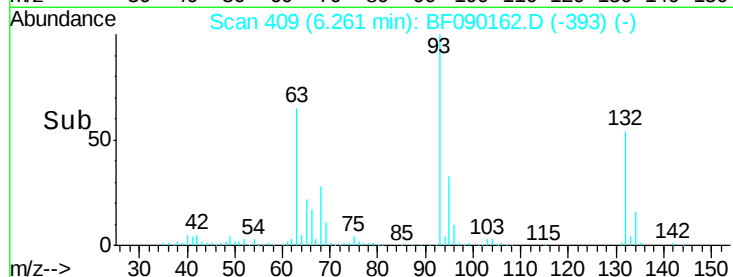
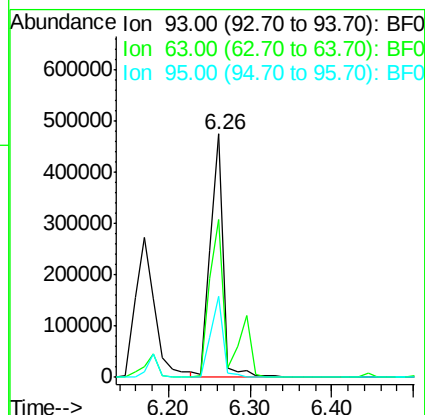
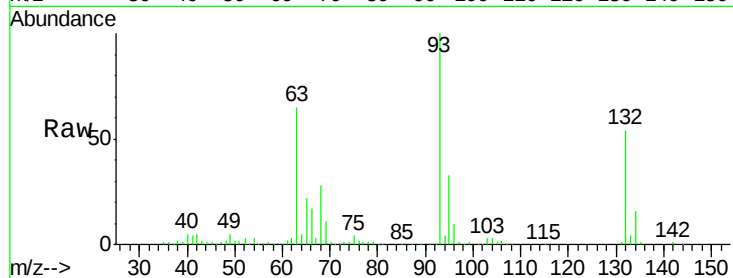




#11
 bis(2-Chloroethyl)ether
 Concen: 45.12 ng
 RT: 6.26 min Scan# 409
 Delta R.T. -0.01 min
 Lab File: BF090162.D
 Acq: 21 Sep 2016 15:58

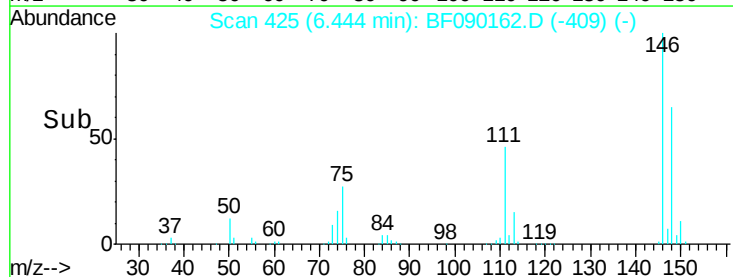
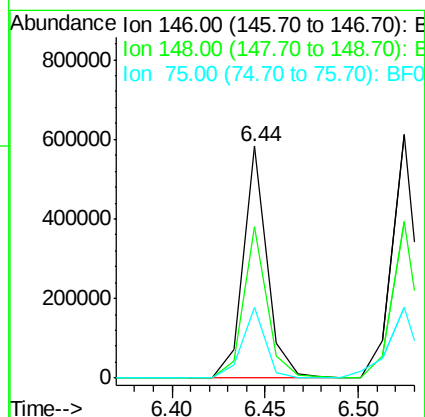
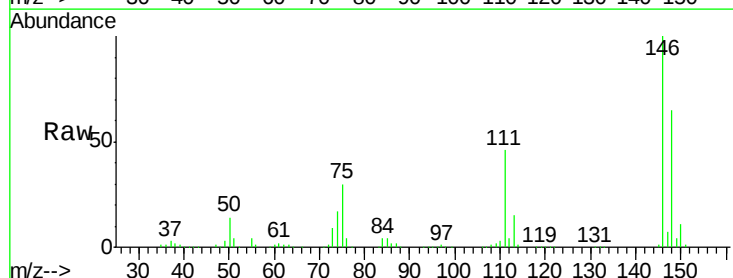
Instrument :
 BNA_F
 ClientSampleId :
 PB93510BSD

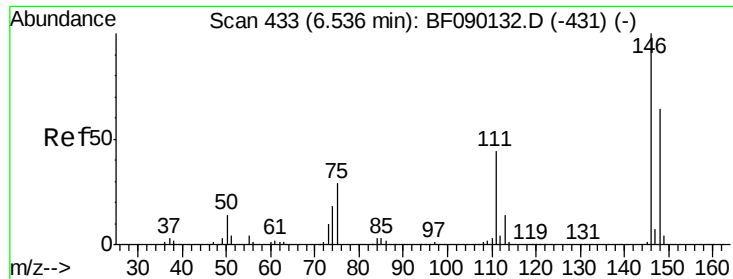
Tgt Ion: 93 Resp: 532728
 Ion Ratio Lower Upper
 93 100
 63 64.7 55.6 95.6
 95 33.5 12.6 52.6



#12
 1,3-Dichlorobenzene
 Concen: 41.70 ng
 RT: 6.44 min Scan# 425
 Delta R.T. -0.01 min
 Lab File: BF090162.D
 Acq: 21 Sep 2016 15:58

Tgt Ion: 146 Resp: 519889
 Ion Ratio Lower Upper
 146 100
 148 65.3 51.9 77.9
 75 30.4 22.8 34.2

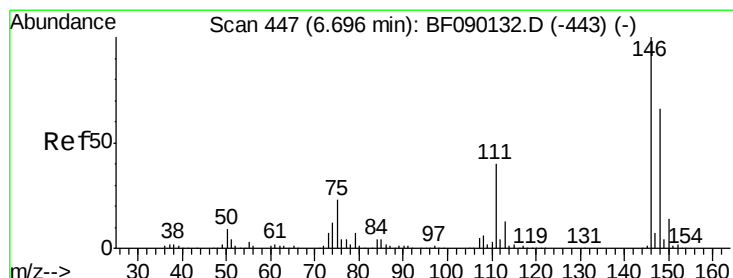
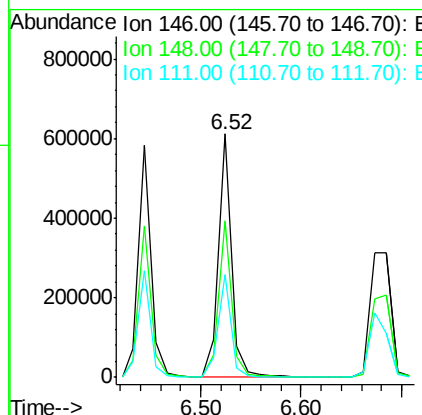
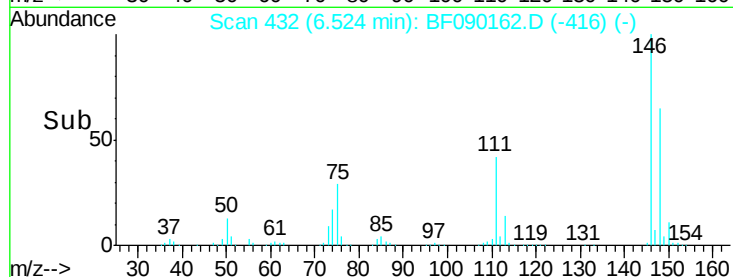
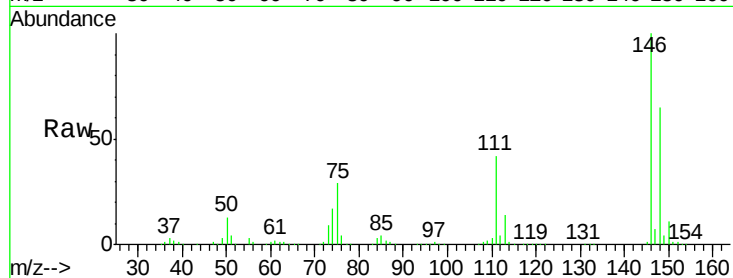




#13
 1,4-Dichlorobenzene
 Concen: 43.53 ng
 RT: 6.52 min Scan# 432
 Delta R.T. -0.01 min
 Lab File: BF090162.D
 Acq: 21 Sep 2016 15:58

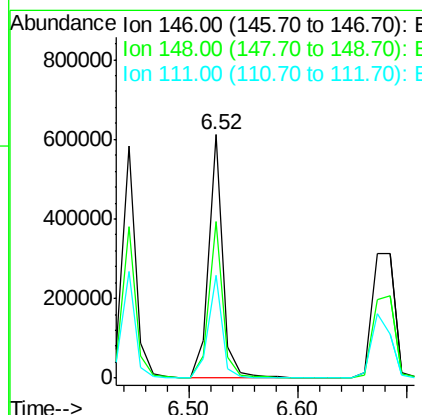
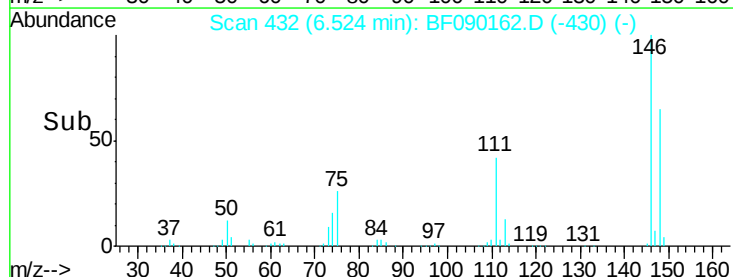
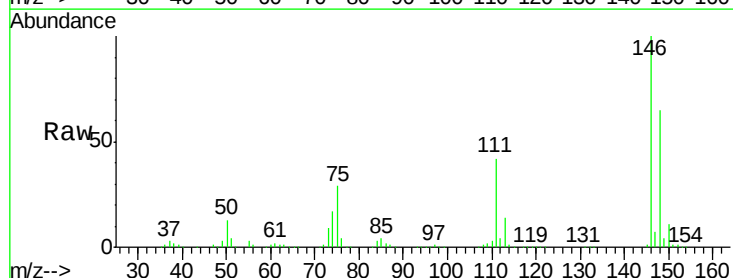
Instrument :
 BNA_F
 ClientSampleId :
 PB93510BSD

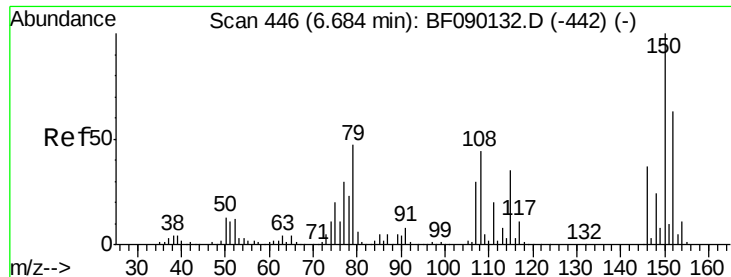
Tgt Ion:146 Resp: 554111
 Ion Ratio Lower Upper
 146 100
 148 64.6 52.0 78.0
 111 42.2 33.8 50.6



#14
 1,2-Dichlorobenzene
 Concen: 48.59 ng
 RT: 6.52 min Scan# 432
 Delta R.T. -0.17 min
 Lab File: BF090162.D
 Acq: 21 Sep 2016 15:58

Tgt Ion:146 Resp: 550968
 Ion Ratio Lower Upper
 146 100
 148 64.6 52.6 79.0
 111 42.2 28.2 42.2

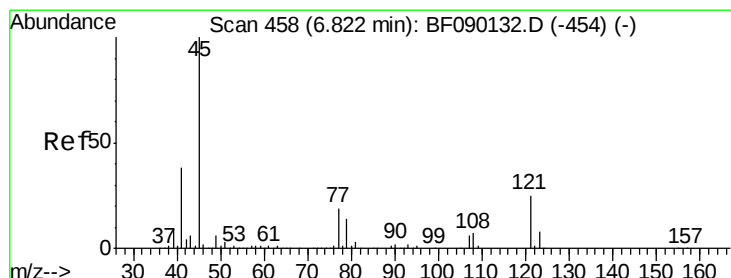
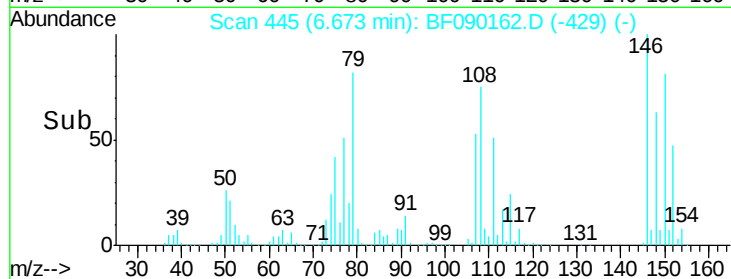
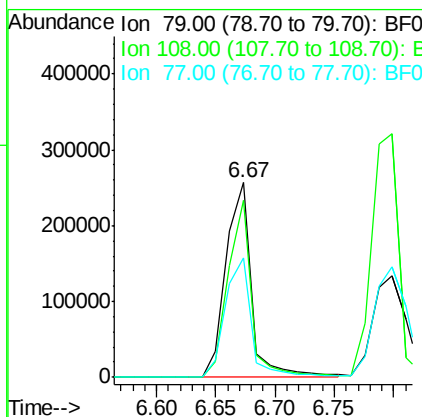
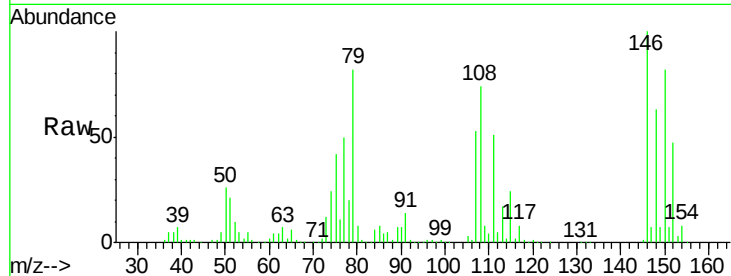




#15
Benzyl Alcohol
Concen: 50.55 ng
RT: 6.67 min Scan# 445
Delta R.T. -0.01 min
Lab File: BF090162.D
Acq: 21 Sep 2016 15:58

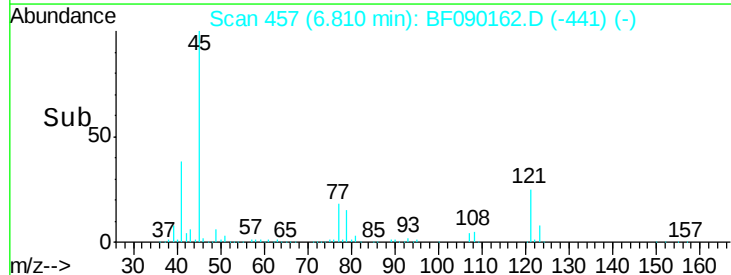
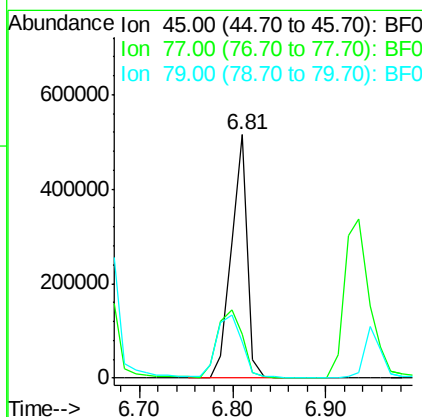
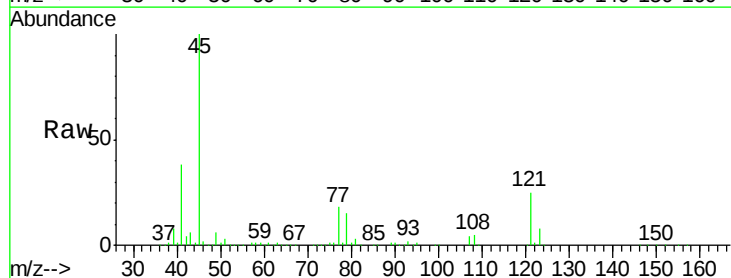
Instrument :
BNA_F
ClientSampleId :
PB93510BSD

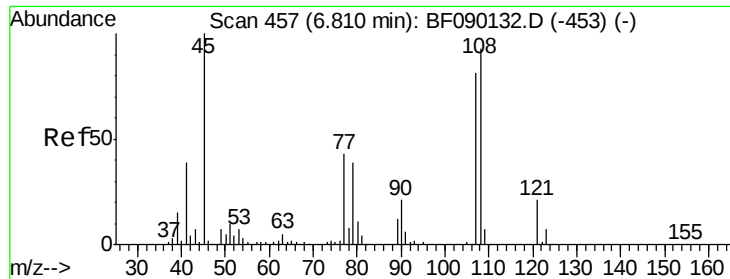
Tgt Ion: 79 Resp: 386097
Ion Ratio Lower Upper
79 100
108 90.9 62.2 93.4
77 61.4 51.4 77.0



#16
2,2'-oxybis(1-Chloropropane)
Concen: 43.51 ng
RT: 6.81 min Scan# 457
Delta R.T. -0.01 min
Lab File: BF090162.D
Acq: 21 Sep 2016 15:58

Tgt Ion: 45 Resp: 613829
Ion Ratio Lower Upper
45 100
77 18.1 0.5 40.5
79 15.0 0.0 37.0

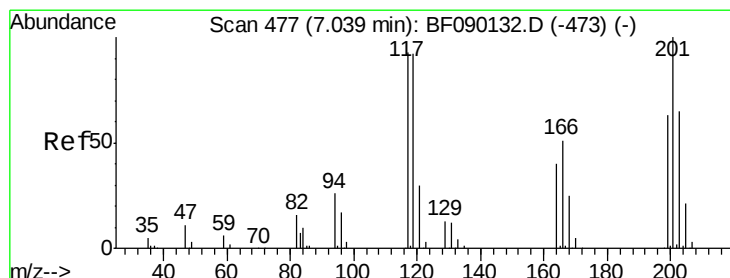
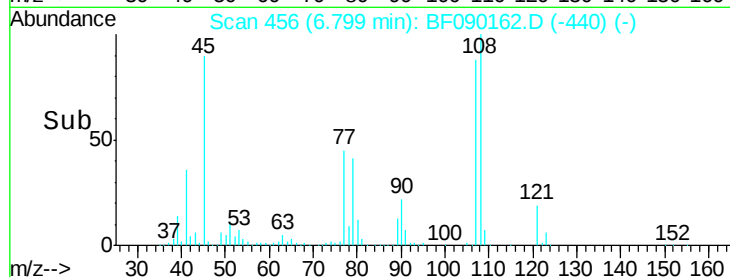
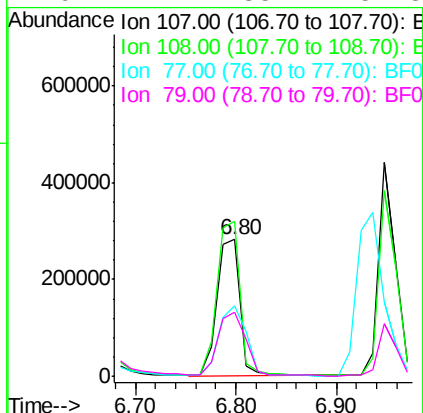
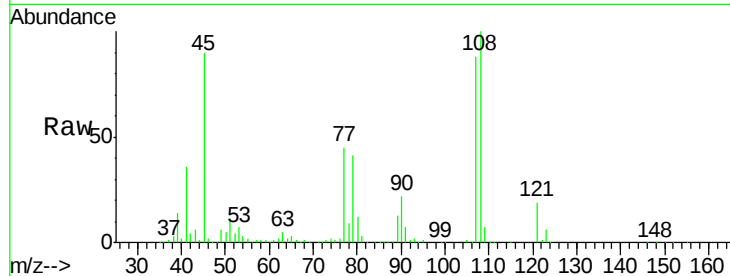




#17
2-Methylphenol
Concen: 47.77 ng
RT: 6.80 min Scan# 456
Delta R.T. -0.01 min
Lab File: BF090162.D
Acq: 21 Sep 2016 15:58

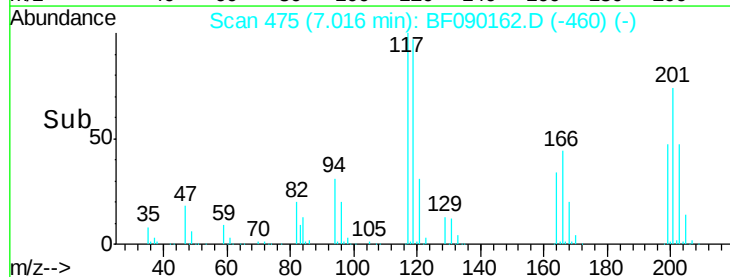
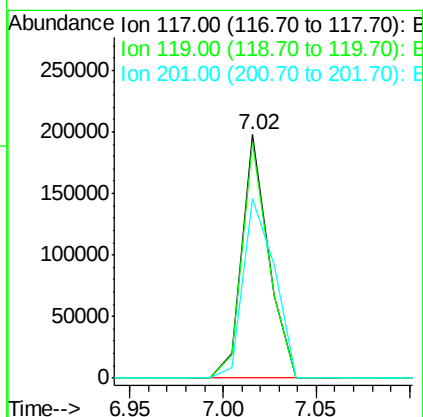
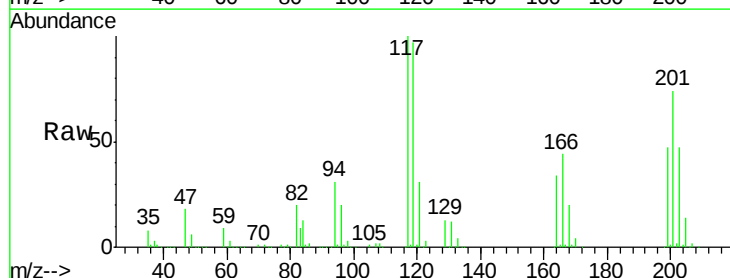
Instrument :
BNA_F
ClientSampleId :
PB93510BSD

Tgt Ion:107 Resp: 448974
Ion Ratio Lower Upper
107 100
108 113.6 92.0 138.0
77 51.4 35.6 53.4
79 47.1 35.2 52.8



#18
Hexachloroethane
Concen: 43.15 ng
RT: 7.02 min Scan# 475
Delta R.T. -0.02 min
Lab File: BF090162.D
Acq: 21 Sep 2016 15:58

Tgt Ion:117 Resp: 195876
Ion Ratio Lower Upper
117 100
119 97.0 76.6 115.0
201 73.6 55.5 83.3

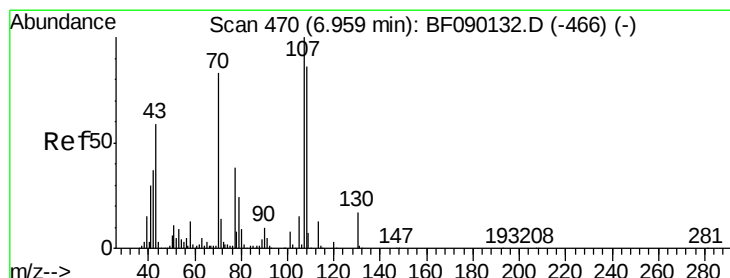
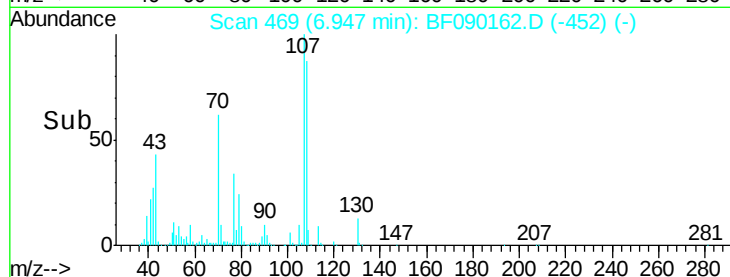
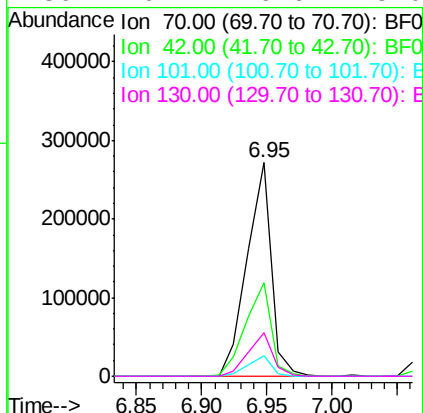
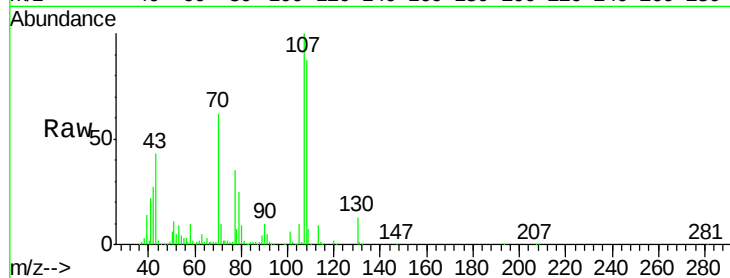




#19
n-Nitroso-di-n-propylamine
Concen: 47.11 ng
RT: 6.95 min Scan# 469
Delta R.T. -0.01 min
Lab File: BF090162.D
Acq: 21 Sep 2016 15:58

Instrument :
BNA_F
ClientSampleId :
PB93510BSD

Tgt Ion:	70	Resp:	354467
Ion	Ratio	Lower	Upper
70	100		
42	44.0	35.1	52.7
101	9.6	7.5	11.3
130	20.4	16.6	25.0



#20
3+4-Methylphenols
Concen: 47.67 ng
RT: 6.95 min Scan# 469
Delta R.T. -0.01 min
Lab File: BF090162.D
Acq: 21 Sep 2016 15:58

Tgt Ion:	107	Resp:	537981
Ion	Ratio	Lower	Upper
107	100		
108	87.2	73.3	113.3
77	34.8	14.1	54.1
79	24.5	7.5	47.5

