

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF080216\
 Data File : BF089547.D
 Acq On : 2 Aug 2016 15:13
 Operator : UM/SJ
 Sample : H4269-07MSD
 Misc :
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SB-52-13.0-14.0MSD

Quant Time: Aug 03 01:04:48 2016
 Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF072716.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Jul 28 16:02:32 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.48	152	45580	20.00	ng	-0.07
21) Naphthalene-d8	7.76	136	186889	20.00	ng	-0.07
38) Acenaphthene-d10	9.51	164	80398	20.00	ng	-0.07
63) Phenanthrene-d10	10.97	188	143855	20.00	ng	-0.08
75) Chrysene-d12	13.59	240	89313	20.00	ng	-0.08
86) Perylene-d12	14.91	264	83758	20.00	ng	-0.09

System Monitoring Compounds

5) 2-Fluorophenol	5.05	112	416157	145.78	ng	-0.06
7) Phenol-d6	6.15	99	506874	134.36	ng	-0.06
23) Nitrobenzene-d5	7.05	82	325807	102.90	ng	-0.07
41) 2,4,6-Tribromophenol	10.30	330	99759	149.82	ng	-0.07
44) 2-Fluorobiphenyl	8.84	172	583672	106.54	ng	-0.07
78) Terphenyl-d14	12.56	244	409260	107.25	ng	-0.07

Target Compounds

						Qvalue
2) 1,4-Dioxane	1.91	88	51600	39.89	ng	97
3) Pyridine	2.49	79	128057	45.85	ng	97
4) n-Nitrosodimethylamine	2.47	42	63410	53.99	ng	94
6) Aniline	6.14	93	190077	46.66	ng	# 84
8) 2-Chlorophenol	6.26	128	169119	52.38	ng	96
9) Benzaldehyde	6.01	77	82770	44.93	ng	92
10) Phenol	6.16	94	234175	56.25	ng	85
11) bis(2-Chloroethyl)ether	6.23	93	167361	47.32	ng	96
12) 1,3-Dichlorobenzene	6.41	146	158504	46.93	ng	95
13) 1,4-Dichlorobenzene	6.49	146	175478	47.08	ng	96
14) 1,2-Dichlorobenzene	6.49	146	178144	51.02	ng	97
15) Benzyl Alcohol	6.64	79	140102	59.84	ng	97
16) 2,2'-oxybis(1-Chloropropan	6.78	45	184368	47.79	ng	88
17) 2-Methylphenol	6.76	107	125080	50.12	ng	95
18) Hexachloroethane	6.98	117	62969	44.06	ng	# 88
19) n-Nitroso-di-n-propylamine	6.91	70	120647	53.03	ng	# 90
20) 3+4-Methylphenols	6.92	107	165392	51.60	ng	# 85
22) Acetophenone	6.90	105	213570	48.00	ng	# 97
24) Nitrobenzene	7.07	77	184466	51.19	ng	99
25) Isophorone	7.31	82	325899	51.10	ng	98
26) 2-Nitrophenol	7.39	139	82406	51.15	ng	94
27) 2,4-Dimethylphenol	7.45	122	146611	57.12	ng	97
28) bis(2-Chloroethoxy)methane	7.53	93	195812	55.46	ng	99
29) 2,4-Dichlorophenol	7.63	162	129337	55.30	ng	90
30) 1,2,4-Trichlorobenzene	7.71	180	132045	49.48	ng	99
31) Naphthalene	7.78	128	469445	50.73	ng	100
32) Benzoic acid	7.58	122	15271	8.54	ng	100
33) 4-Chloroaniline	7.85	127	137072	38.90	ng	100
34) Hexachlorobutadiene	7.91	225	73215	47.91	ng	98
35) Caprolactam	8.24	113	24787	35.11	ng	# 83
36) 4-Chloro-3-methylphenol	8.35	107	152076	54.71	ng	100
37) 2-Methylnaphthalene	8.48	142	286549	51.38	ng	99
39) 1,2,4,5-Tetrachlorobenzene	8.64	216	106668	37.91	ng	99
40) Hexachlorocyclopentadiene	8.63	237	53500	68.19	ng	99

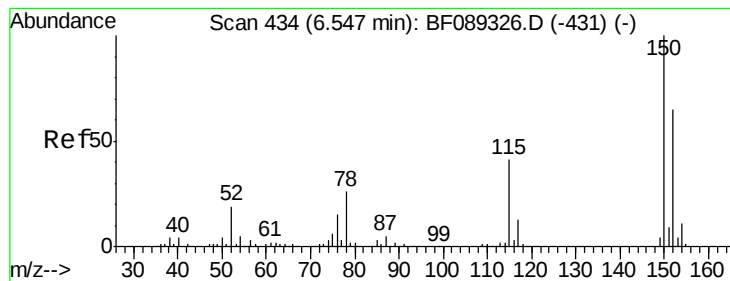
Data Path : Z:\HPCHEM1\BNA_F\DATA\BF080216\
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
42) 2,4,6-Trichlorophenol	8.76	196	81191	60.70	ng	98
43) 2,4,5-Trichlorophenol	8.81	196	94809	55.96	ng	98
45) 1,1'-Biphenyl	8.94	154	309031	45.14	ng	98
46) 2-Chloronaphthalene	8.96	162	273961	53.29	ng	98
47) 2-Nitroaniline	9.07	65	92783	60.94	ng	99
48) Acenaphthylene	9.37	152	426592	52.68	ng	99
49) Dimethylphthalate	9.26	163	424743	69.42	ng	99
50) 2,6-Dinitrotoluene	9.31	165	65900	52.42	ng	# 73
51) Acenaphthene	9.54	154	259840	54.95	ng	99
52) 3-Nitroaniline	9.48	138	64765	48.81	ng	94
53) 2,4-Dinitrophenol	9.60	184	18701	43.48	ng	# 83
54) Dibenzofuran	9.71	168	376170	58.38	ng	97
55) 4-Nitrophenol	9.71	139	243942	354.52	ng	# 10
56) 2,4-Dinitrotoluene	9.72	165	94055	56.83	ng	# 58
57) Fluorene	10.04	166	275667	49.01	ng	99
58) 2,3,4,6-Tetrachlorophenol	9.84	232	70959	62.73	ng	# 99
59) Diethylphthalate	9.95	149	336538	54.25	ng	94
60) 4-Chlorophenyl-phenylether	10.04	204	120969	46.89	ng	# 76
61) 4-Nitroaniline	10.10	138	66174	48.39	ng	88
62) Azobenzene	10.20	77	346122	54.18	ng	96
64) 4,6-Dinitro-2-methylphenol	10.14	198	28975	34.69	ng	91
65) n-Nitrosodiphenylamine	10.17	169	248276	55.31	ng	100
66) 4-Bromophenyl-phenylether	10.54	248	70303	51.19	ng	# 91
67) Hexachlorobenzene	10.59	284	72965	51.84	ng	# 87
68) Atrazine	10.71	200	76068	55.16	ng	98
69) Pentachlorophenol	10.80	266	66476	96.16	ng	98
70) Phenanthrene	11.00	178	375264	50.58	ng	98
71) Anthracene	11.05	178	420642	50.99	ng	100
72) Carbazole	11.21	167	359876	51.83	ng	98
73) Di-n-butylphthalate	11.55	149	445037	47.77	ng	100
74) Fluoranthene	12.17	202	354402	45.41	ng	95
76) Benzidine	12.32	184	198816	60.25	ng	95
77) Pyrene	12.40	202	368588	54.45	ng	100
79) Butylbenzylphthalate	13.04	149	176123	57.23	ng	87
80) Benzo(a)anthracene	13.59	228	268016	53.18	ng	99
81) 3,3'-Dichlorobenzidine	13.55	252	94726	52.23	ng	# 95
82) Chrysene	13.62	228	278030	51.82	ng	100
83) Bis(2-ethylhexyl)phthalate	13.60	149	230767	51.87	ng	# 99
84) Di-n-octyl phthalate	14.21	149	357926	51.56	ng	98
85) Indeno(1,2,3-cd)pyrene	16.08	276	243452	63.82	ng	99
87) Benzo(b)fluoranthene	14.61	252	495364	95.23	ng	# 97
88) Benzo(k)fluoranthene	14.61	252	495913	103.70	ng	# 95
89) Benzo(a)pyrene	14.87	252	235013	50.37	ng	98
90) Dibenzo(a,h)anthracene	16.09	278	203701	55.42	ng	# 95
91) Benzo(g,h,i)perylene	16.42	276	197450	54.65	ng	98

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



#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 6.48 min Scan# 428

Delta R.T. -0.07 min

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Acq: 2 Aug 2016 15:13

Instrument :

BNA_F

ClientSampleId :

SB-52-13.0-14.0MSD

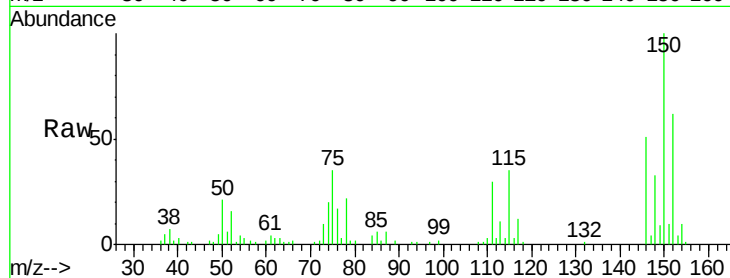
Tgt Ion:152 Resp: 45580

Ion Ratio Lower Upper

152 100

150 161.1 129.5 194.3

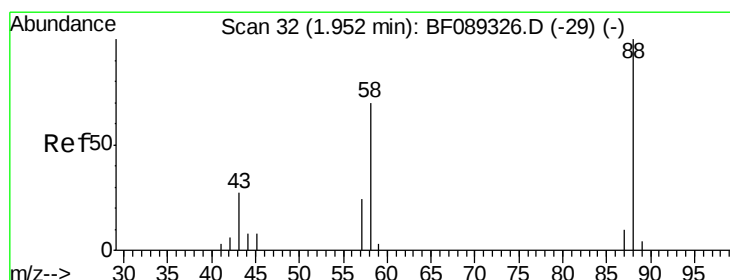
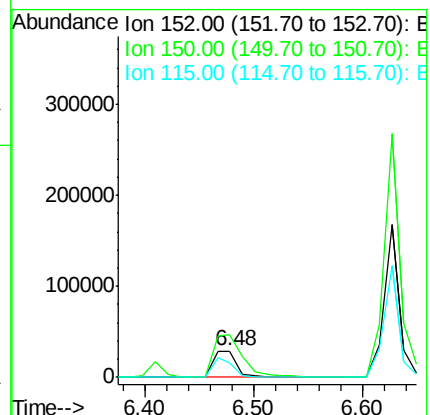
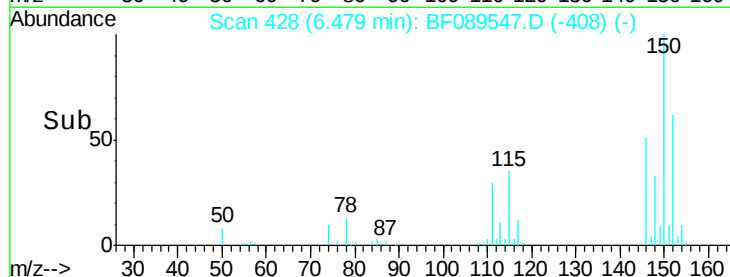
115 56.7 51.4 77.2



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: 39.89 ng

RT: 1.91 min Scan# 28

Delta R.T. -0.05 min

Lab File: BF089547.D

Acq: 2 Aug 2016 15:13

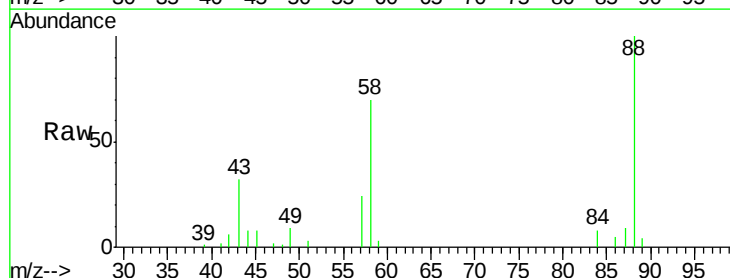
Tgt Ion: 88 Resp: 51600

Ion Ratio Lower Upper

88 100

58 65.7 53.2 79.8

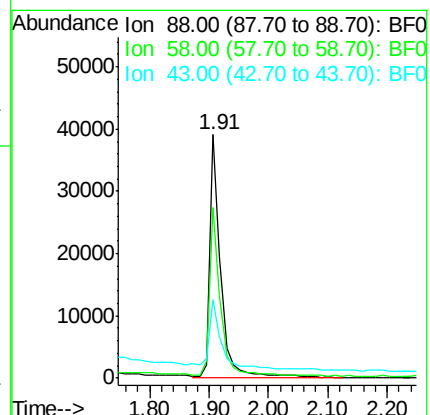
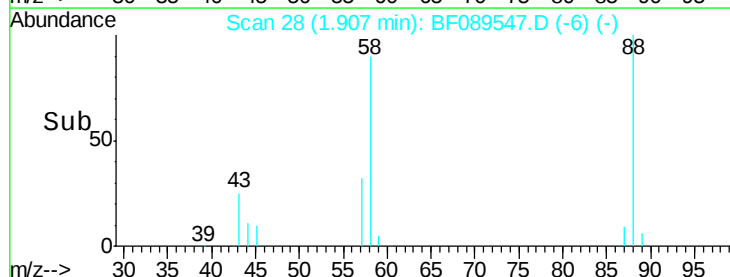
43 30.5 20.6 31.0

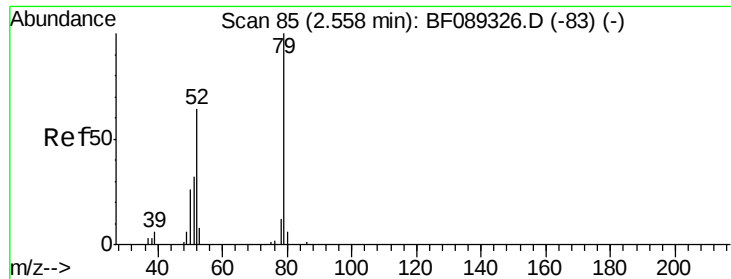


Abundance Ion 88.00 (87.70 to 88.70): BF0

Ion 58.00 (57.70 to 58.70): BF0

Ion 43.00 (42.70 to 43.70): BF0

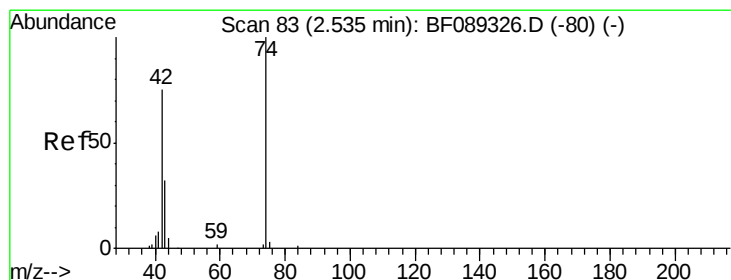
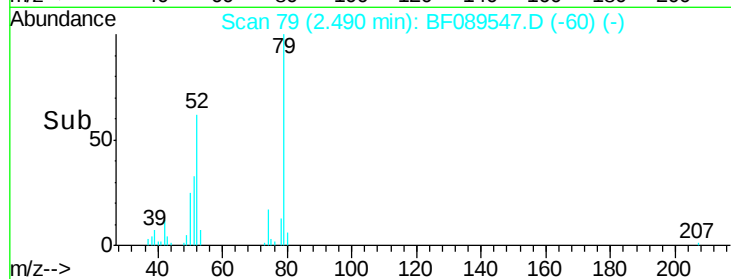
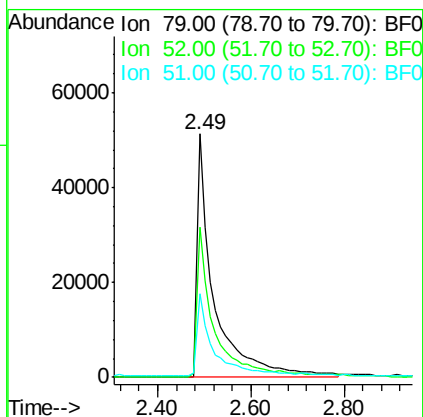
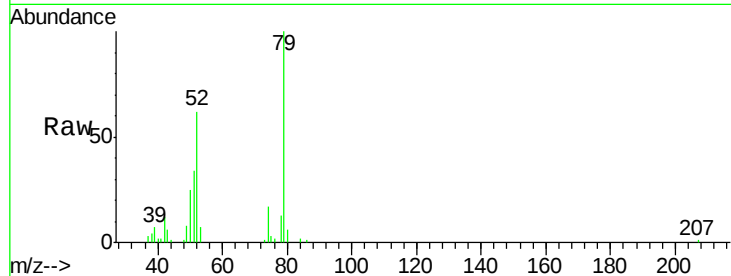




#3
 Pyridine
 Concen: 45.85 ng
 RT: 2.49 min Scan# 79
 Delta R.T. -0.08 min
 Lab File: BF089547.D
 Acq: 2 Aug 2016 15:13

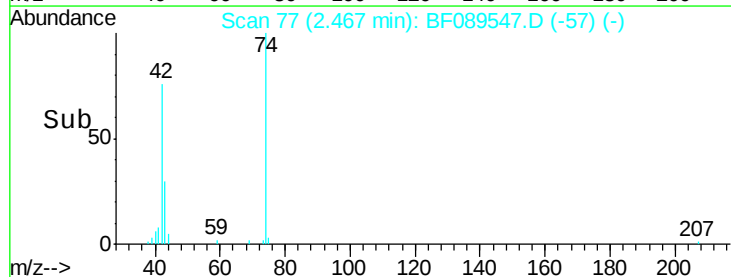
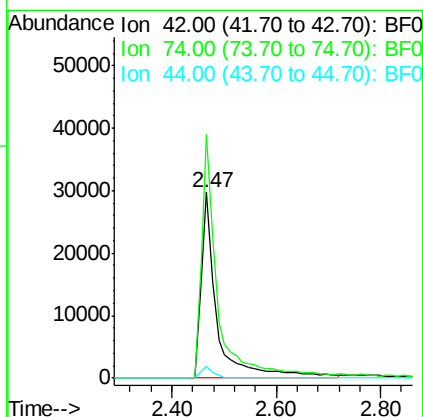
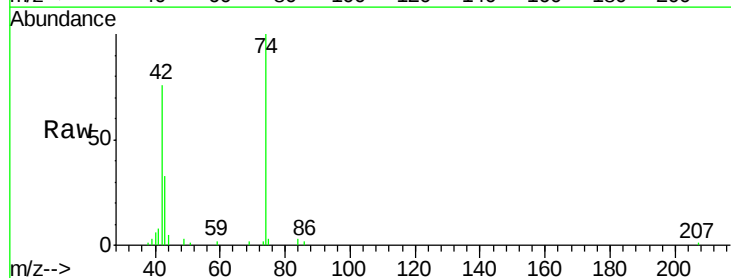
Instrument :
 BNA_F
 ClientSampleId :
 SB-52-13.0-14.0MSD

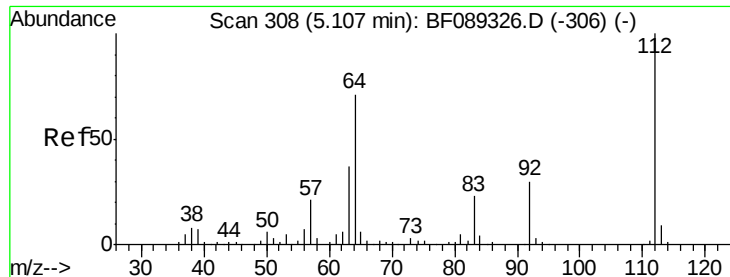
Tgt Ion	Ratio	Lower	Upper
79	100		
52	61.6	51.9	77.9
51	34.2	28.2	42.4



#4
 n-Nitrosodimethylamine
 Concen: 53.99 ng
 RT: 2.47 min Scan# 77
 Delta R.T. -0.07 min
 Lab File: BF089547.D
 Acq: 2 Aug 2016 15:13

Tgt Ion	Ratio	Lower	Upper
42	100		
74	131.0	110.8	166.2
44	6.1	5.2	7.8





#5

2-Fluorophenol

Concen: 145.78 ng

RT: 5.05 min Scan# 303

Delta R.T. -0.06 min

Lab File: BF089547.D

Acq: 2 Aug 2016 15:13

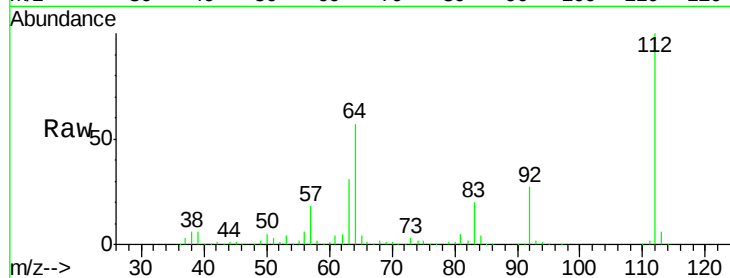
Instrument :

BNA_F

ClientSampleId :

SB-52-13.0-14.0MSD

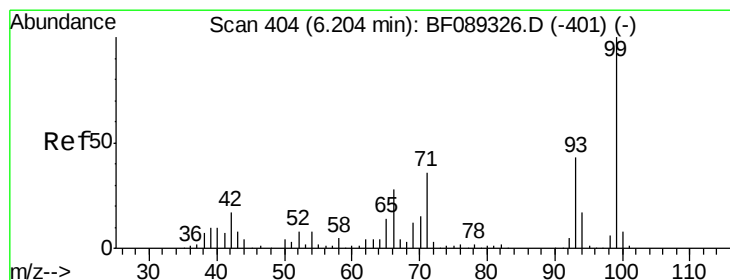
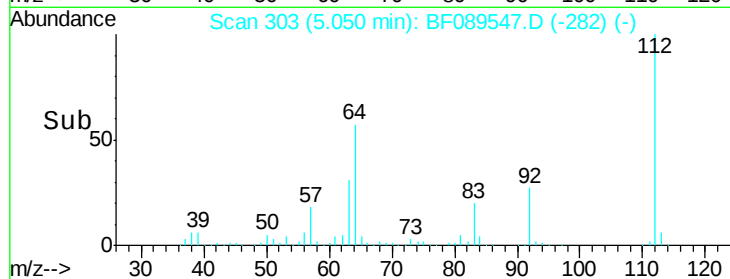
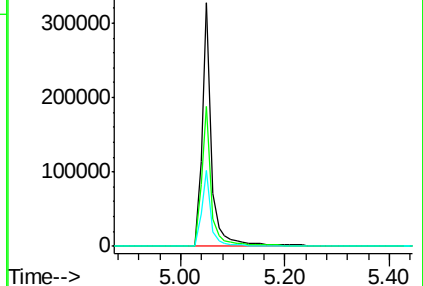
Tgt Ion:	112	Resp:	416157
Ion	Ratio	Lower	Upper
112	100		
64	57.3	55.0	82.6
63	31.1	29.4	44.2



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: 46.66 ng

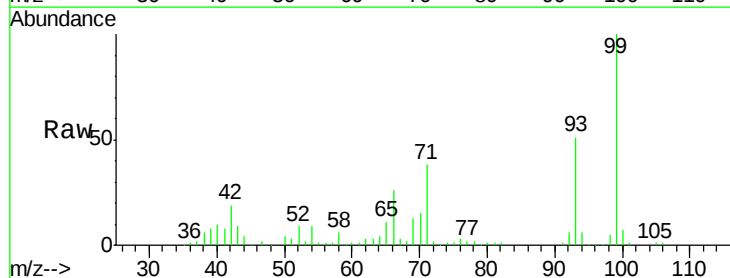
RT: 6.14 min Scan# 398

Delta R.T. -0.07 min

Lab File: BF089547.D

Acq: 2 Aug 2016 15:13

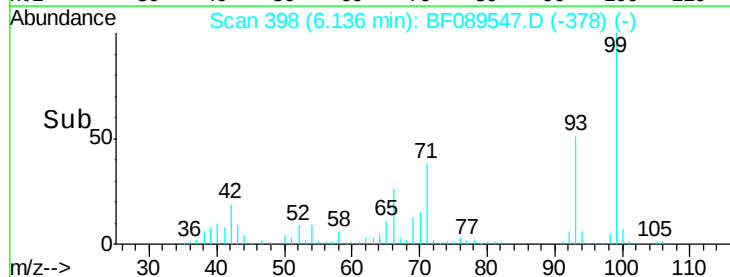
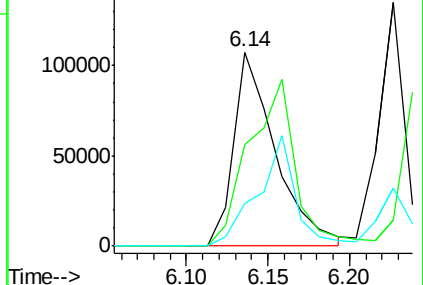
Tgt Ion:	93	Resp:	190077
Ion	Ratio	Lower	Upper
93	100		
66	52.1	51.6	77.4
65	22.1	24.7	37.1#

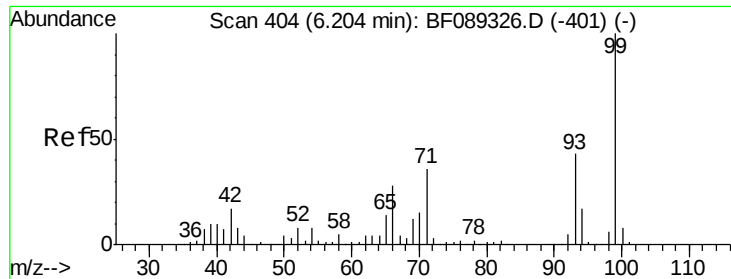


Abundance Ion 93.00 (92.70 to 93.70): BF0

Ion 66.00 (65.70 to 66.70): BF0

Ion 65.00 (64.70 to 65.70): BF0





#7

Phenol-d6

Concen: 134.36 ng

RT: 6.15 min Scan# 399

Delta R.T. -0.06 min

Lab File: BF089547.D

Acq: 2 Aug 2016 15:13

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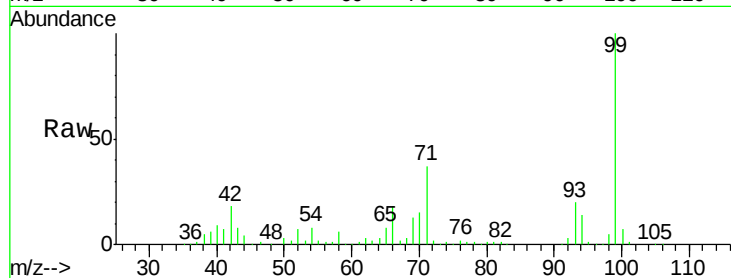
Tgt Ion: 99 Resp: 506874

Ion Ratio Lower Upper

99 100

42 17.9 13.6 20.4

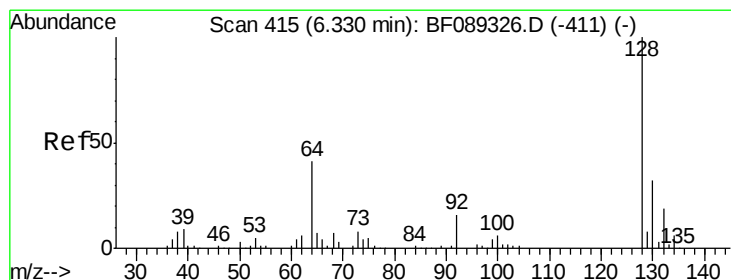
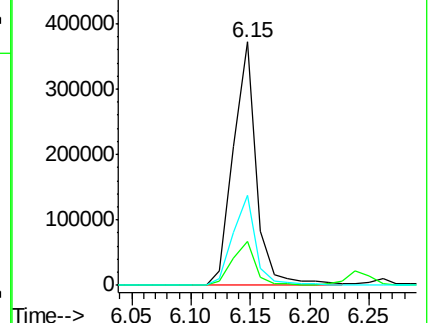
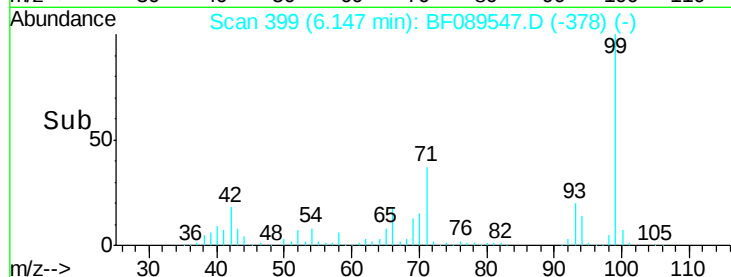
71 37.2 29.4 44.2



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: 52.38 ng

RT: 6.26 min Scan# 409

Delta R.T. -0.07 min

Lab File: BF089547.D

Acq: 2 Aug 2016 15:13

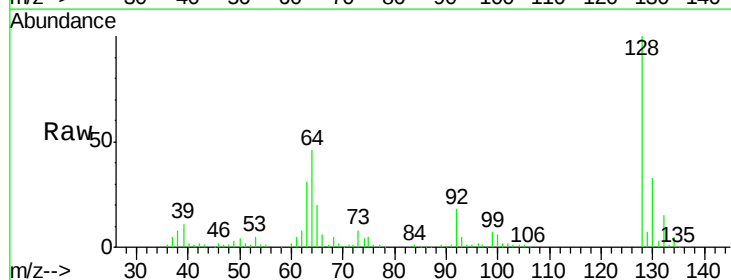
Tgt Ion: 128 Resp: 169119

Ion Ratio Lower Upper

128 100

130 33.1 12.6 52.6

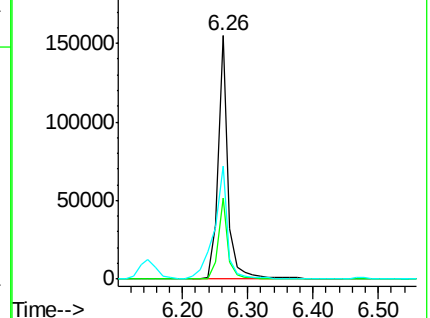
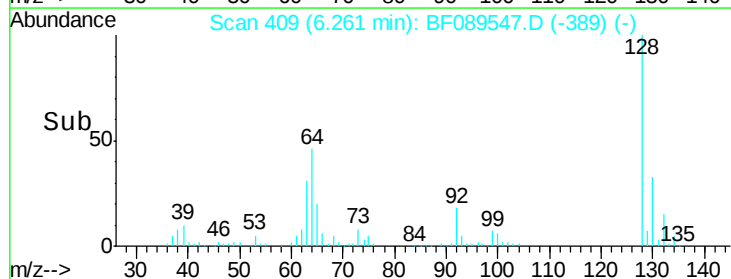
64 46.2 22.1 62.1

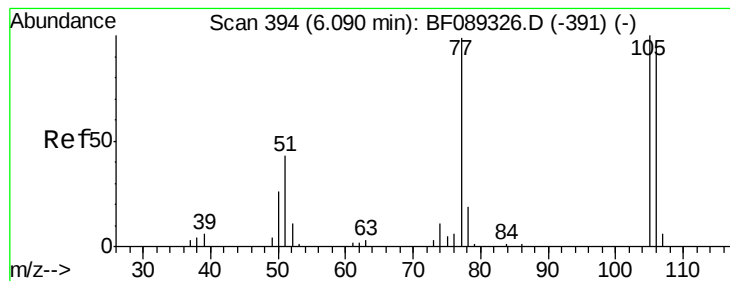


Abundance Ion 128.00 (127.70 to 128.70): E

Ion 130.00 (129.70 to 130.70): E

Ion 64.00 (63.70 to 64.70): BF0





#9

Benzaldehyde

Concen: 44.93 ng

RT: 6.01 min Scan# 387

Delta R.T. -0.08 min

Lab File: BF089547.D

Acq: 2 Aug 2016 15:13

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ClientSampleId :

SB-52-13.0-14.0MSD

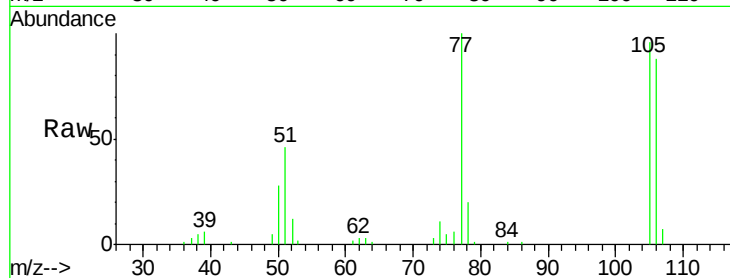
Tgt Ion: 77 Resp: 82770

Ion Ratio Lower Upper

77 100

105 95.6 82.9 122.9

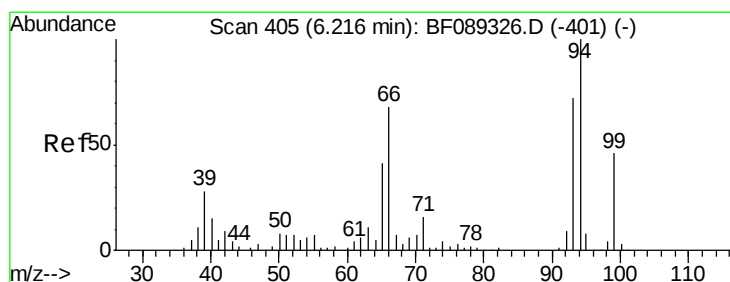
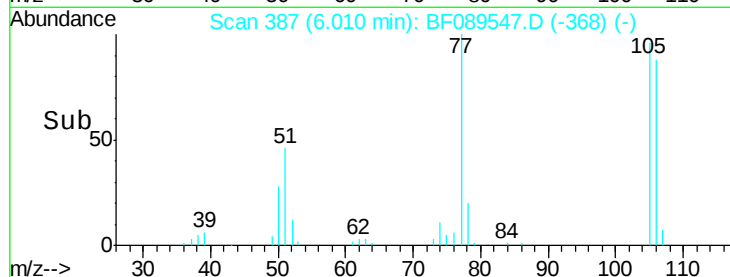
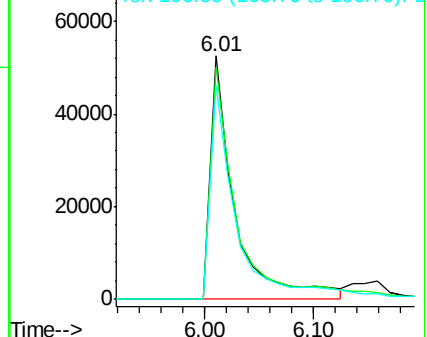
106 87.9 75.9 115.9



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: 56.25 ng

RT: 6.16 min Scan# 400

Delta R.T. -0.06 min

Lab File: BF089547.D

Acq: 2 Aug 2016 15:13

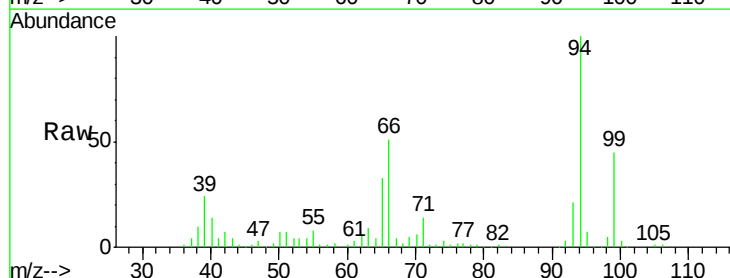
Tgt Ion: 94 Resp: 234175

Ion Ratio Lower Upper

94 100

65 33.3 19.1 59.1

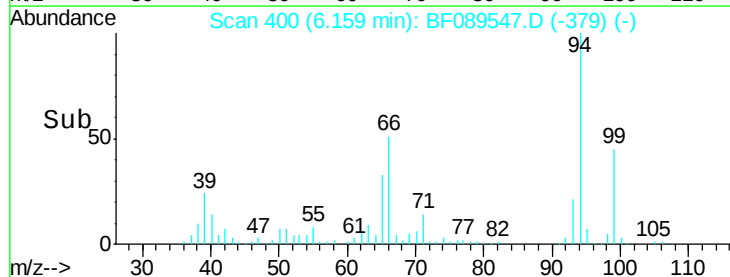
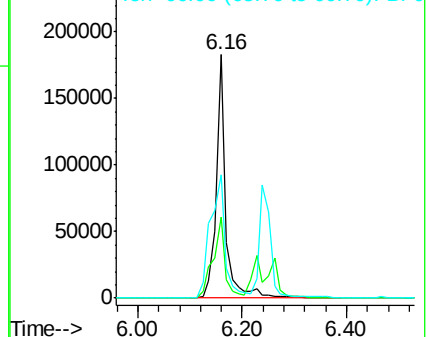
66 50.6 44.4 84.4



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

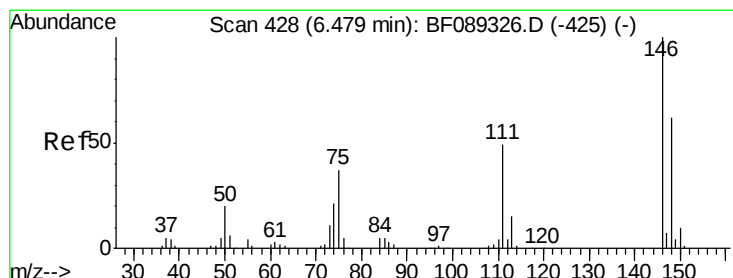
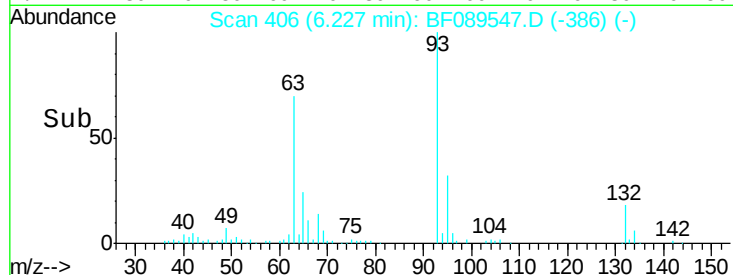
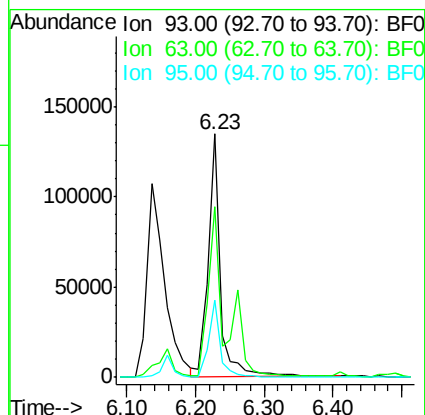
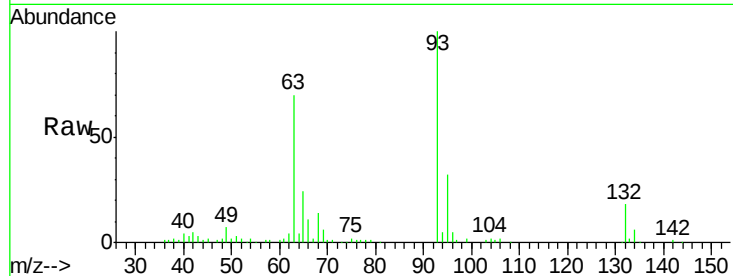




#11
 bis(2-Chloroethyl)ether
 Concen: 47.32 ng
 RT: 6.23 min Scan# 406
 Delta R.T. -0.07 min
 Lab File: BF089547.D
 Acq: 2 Aug 2016 15:13

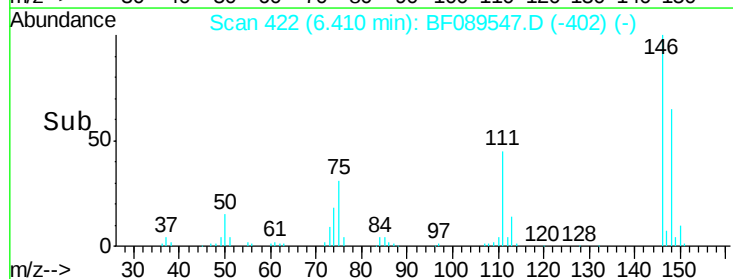
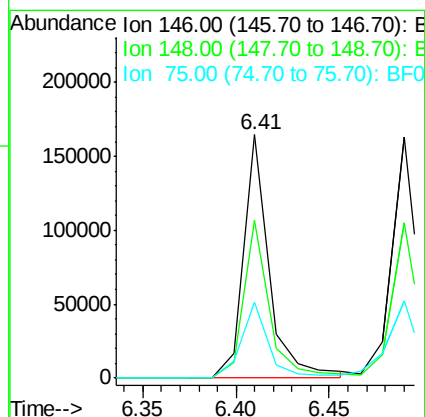
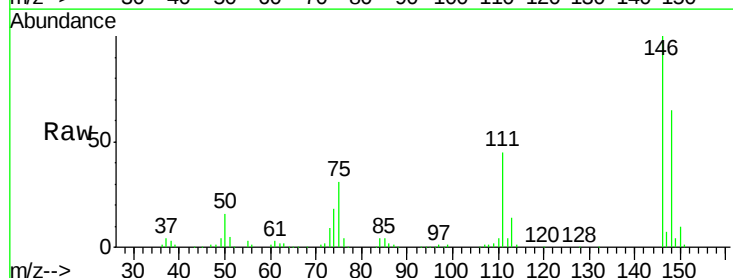
Instrument :
 BNA_F
 ClientSampleId :
 SB-52-13.0-14.0MSD

Tgt Ion: 93 Resp: 167361
 Ion Ratio Lower Upper
 93 100
 63 70.2 45.6 85.6
 95 31.6 11.1 51.1



#12
 1,3-Dichlorobenzene
 Concen: 46.93 ng
 RT: 6.41 min Scan# 422
 Delta R.T. -0.07 min
 Lab File: BF089547.D
 Acq: 2 Aug 2016 15:13

Tgt Ion: 146 Resp: 158504
 Ion Ratio Lower Upper
 146 100
 148 65.1 50.5 75.7
 75 31.2 30.0 45.0

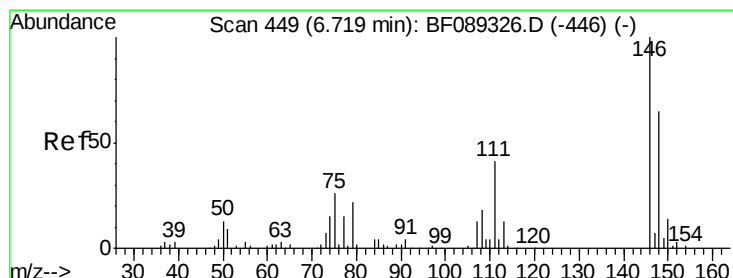
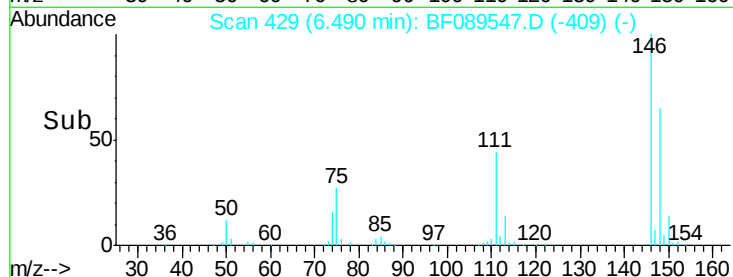
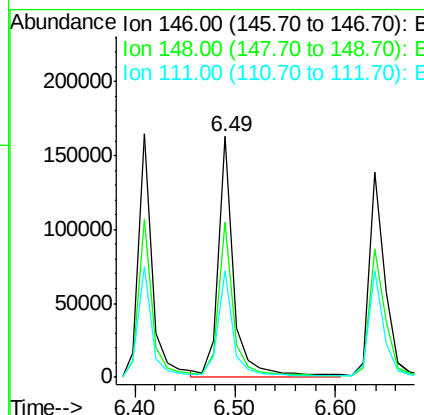
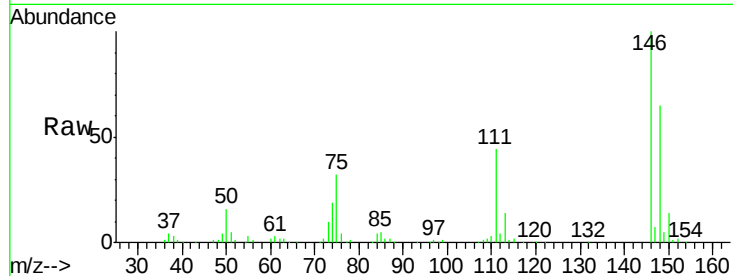




#13
 1,4-Dichlorobenzene
 Concen: 47.08 ng
 RT: 6.49 min Scan# 429
 Delta R.T. -0.07 min
 Lab File: BF089547.D
 Acq: 2 Aug 2016 15:13

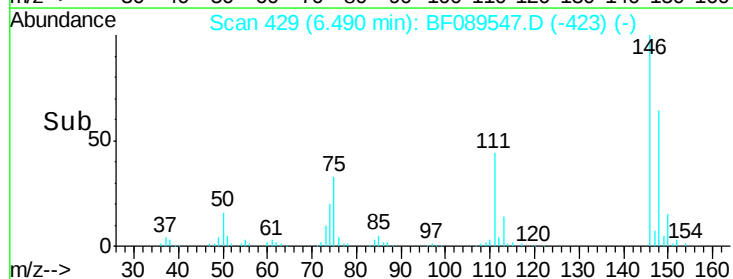
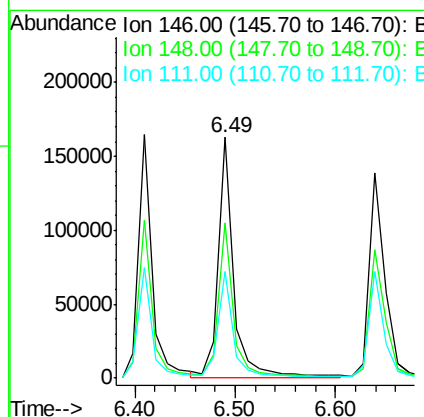
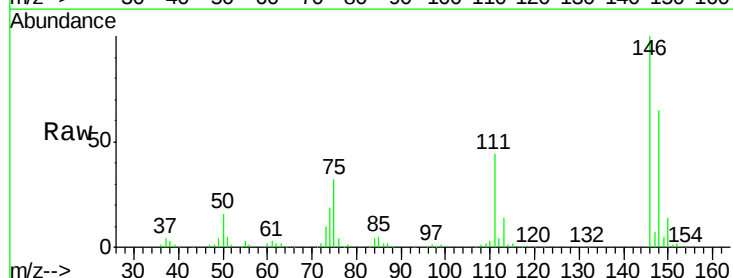
Instrument :
 BNA_F
 ClientSampleId :
 SB-52-13.0-14.0MSD

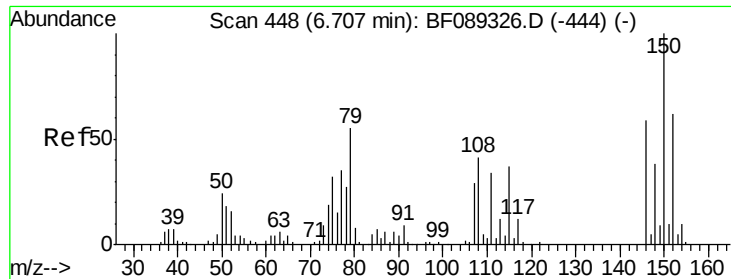
Tgt Ion:146 Resp: 175478
 Ion Ratio Lower Upper
 146 100
 148 64.7 50.8 76.2
 111 44.0 38.6 57.8



#14
 1,2-Dichlorobenzene
 Concen: 51.02 ng
 RT: 6.49 min Scan# 429
 Delta R.T. -0.23 min
 Lab File: BF089547.D
 Acq: 2 Aug 2016 15:13

Tgt Ion:146 Resp: 178144
 Ion Ratio Lower Upper
 146 100
 148 64.7 50.4 75.6
 111 44.0 33.0 49.4

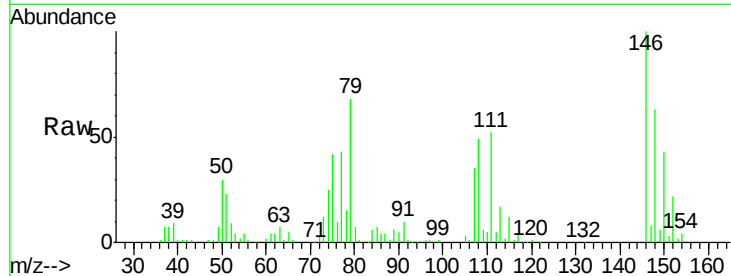




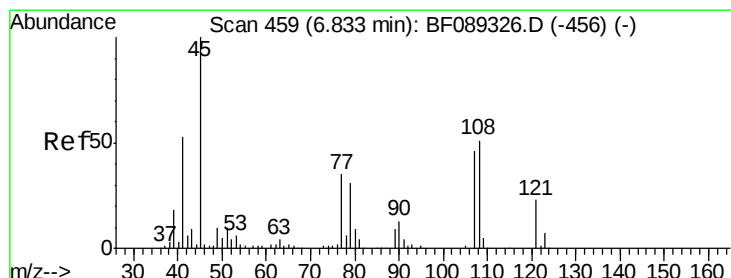
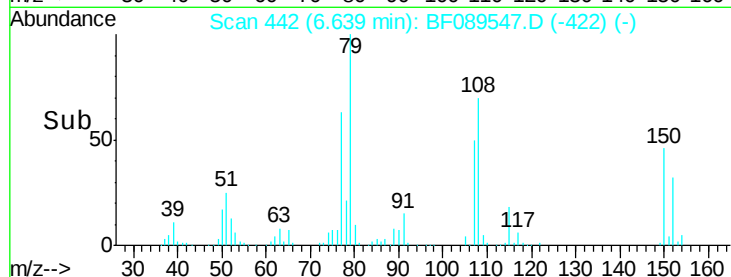
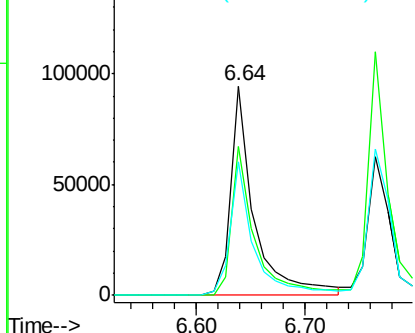
#15
Benzyl Alcohol
Concen: 59.84 ng
RT: 6.64 min Scan# 442
Delta R.T. -0.07 min
Lab File: BF089547.D
Acq: 2 Aug 2016 15:13

Instrument :
BNA_F
ClientSampleId :
SB-52-13.0-14.0MSD

Tgt Ion: 79 Resp: 140102
Ion Ratio Lower Upper
79 100
108 71.3 59.8 89.6
77 63.9 51.7 77.5

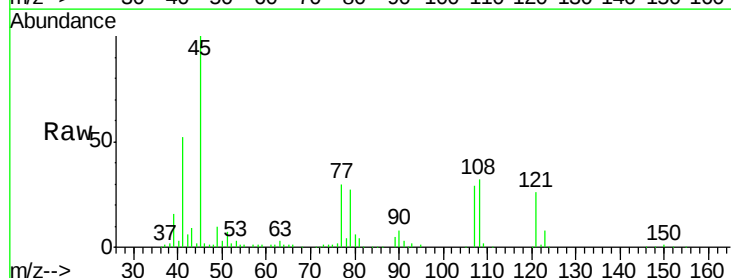


Abundance Ion 79.00 (78.70 to 79.70): BF0
Ion 108.00 (107.70 to 108.70): BF0
Ion 77.00 (76.70 to 77.70): BF0

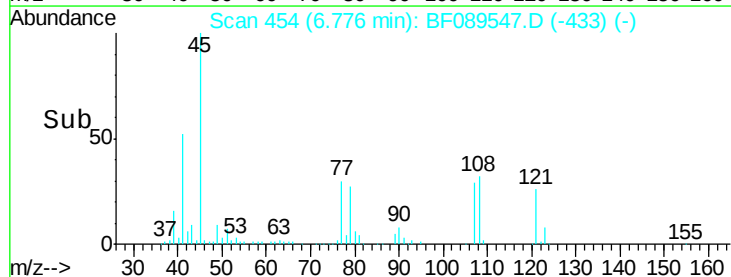
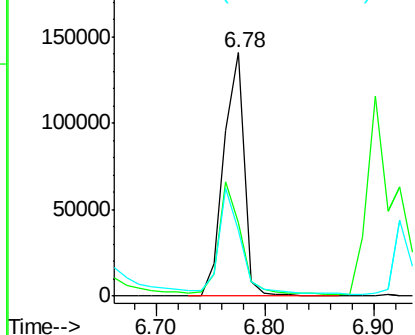


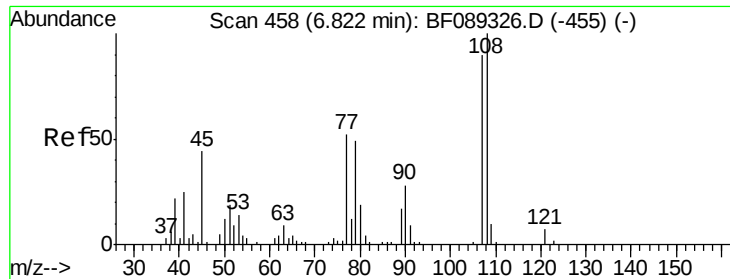
#16
2,2'-oxybis(1-Chloropropane)
Concen: 47.79 ng
RT: 6.78 min Scan# 454
Delta R.T. -0.06 min
Lab File: BF089547.D
Acq: 2 Aug 2016 15:13

Tgt Ion: 45 Resp: 184368
Ion Ratio Lower Upper
45 100
77 30.4 17.3 57.3
79 26.8 13.9 53.9



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

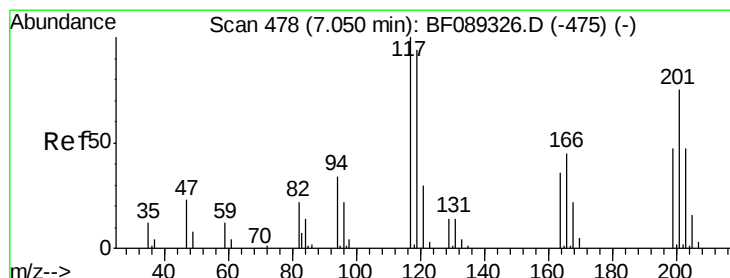
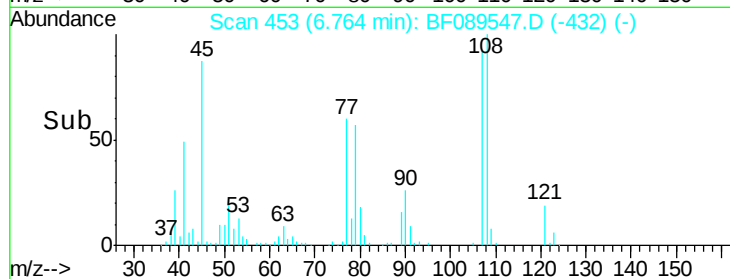
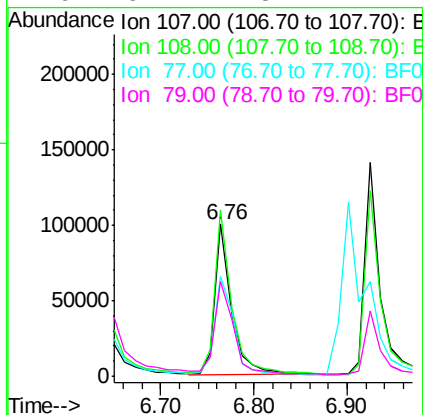
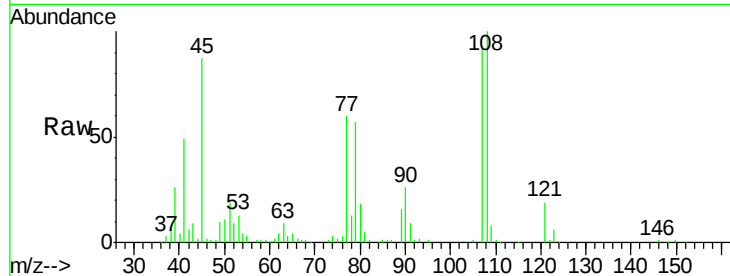




#17
2-Methylphenol
Concen: 50.12 ng
RT: 6.76 min Scan# 453
Delta R.T. -0.06 min
Lab File: BF089547.D
Acq: 2 Aug 2016 15:13

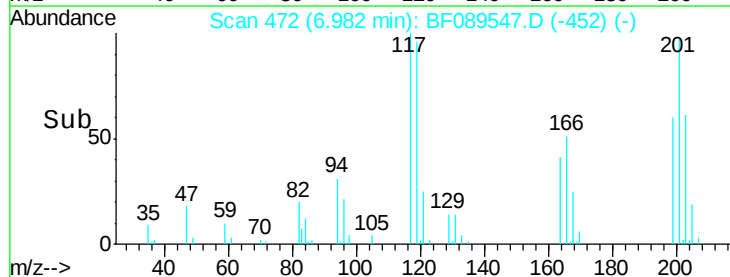
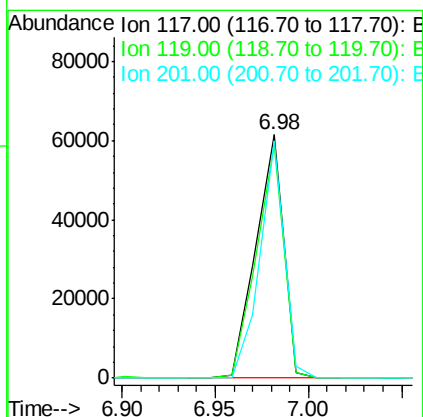
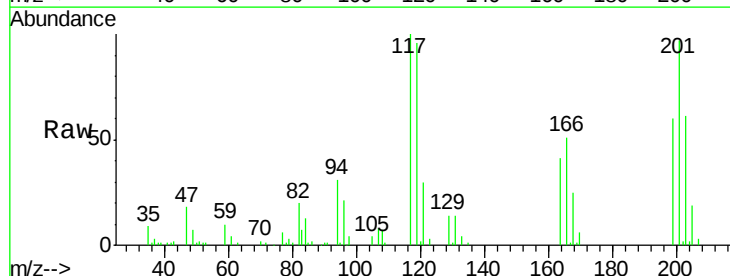
Instrument :
BNA_F
ClientSampleId :
SB-52-13.0-14.0MSD

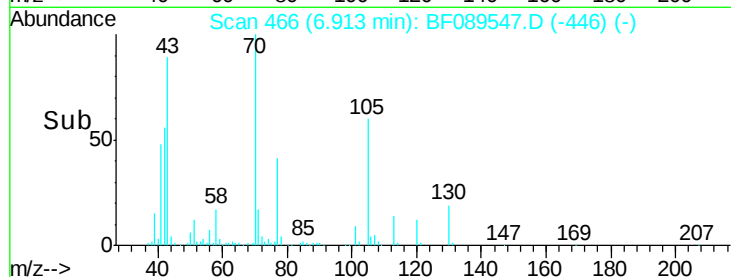
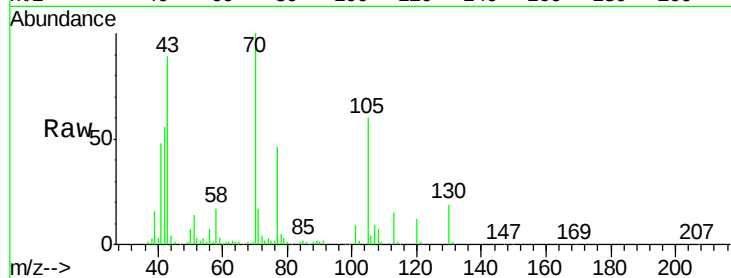
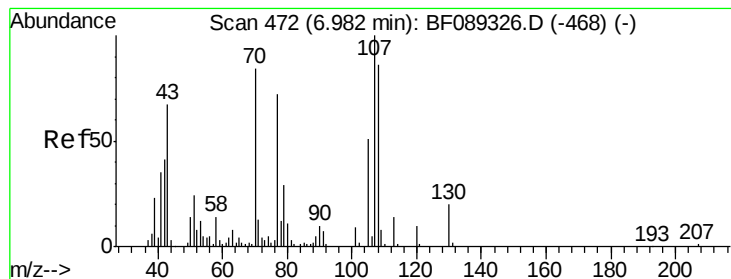
Tgt Ion:107 Resp: 125080
Ion Ratio Lower Upper
107 100
108 109.2 91.4 137.0
77 65.6 48.6 73.0
79 62.2 48.2 72.4



#18
Hexachloroethane
Concen: 44.06 ng
RT: 6.98 min Scan# 472
Delta R.T. -0.07 min
Lab File: BF089547.D
Acq: 2 Aug 2016 15:13

Tgt Ion:117 Resp: 62969
Ion Ratio Lower Upper
117 100
119 95.8 76.0 114.0
201 97.2 60.0 90.0#





#19

n-Nitroso-di-n-propylamine

Concen: 53.03 ng

RT: 6.91 min Scan# 466

Delta R.T. -0.07 min

Lab File: BF089547.D

Acq: 2 Aug 2016 15:13

Instrument :

BNA_F

ClientSampleId :

SB-52-13.0-14.0MSD

Tgt Ion: 70 Resp: 120647

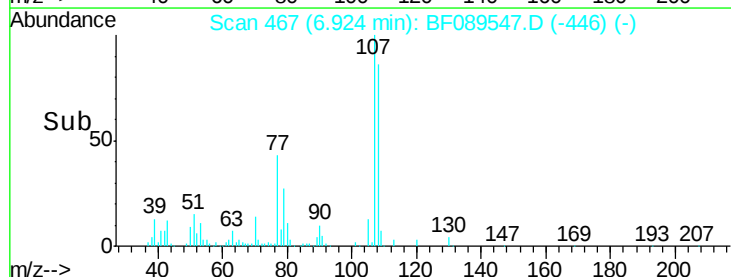
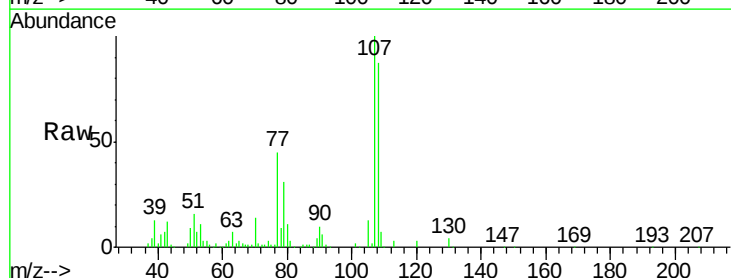
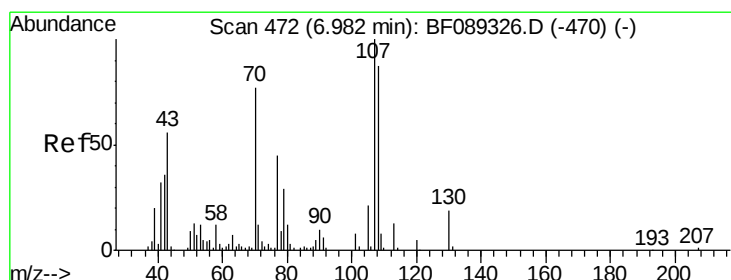
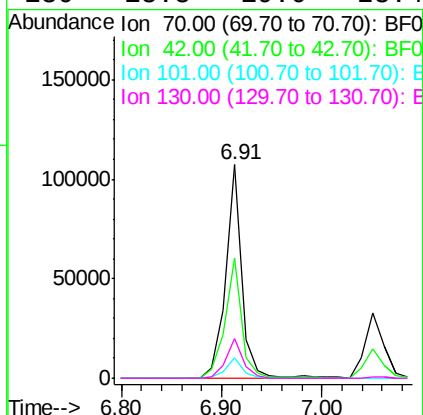
Ion Ratio Lower Upper

70 100

42 56.1 38.6 57.8

101 9.5 8.3 12.5

130 18.8 19.0 28.4#



#20

3+4-Methylphenols

Concen: 51.60 ng

RT: 6.92 min Scan# 467

Delta R.T. -0.06 min

Lab File: BF089547.D

Acq: 2 Aug 2016 15:13

Tgt Ion: 107 Resp: 165392

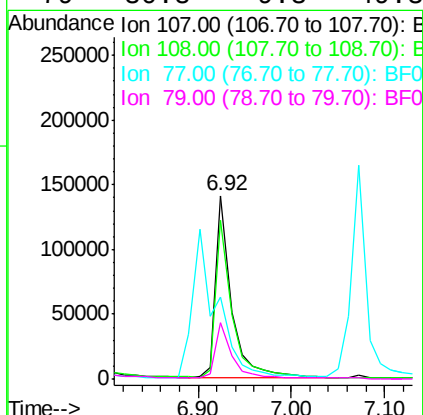
Ion Ratio Lower Upper

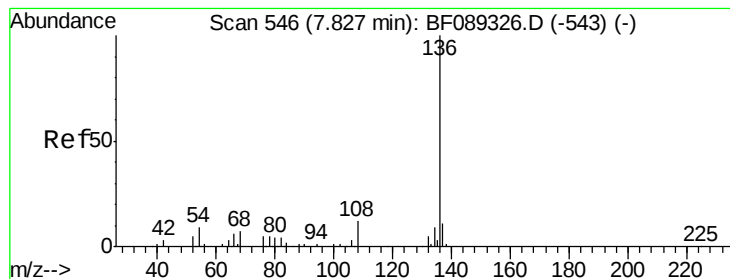
107 100

108 87.0 63.3 103.3

77 44.6 51.1 91.1#

79 30.8 9.3 49.3





#21

Naphthalene-d8

Concen: 20.00 ng

RT: 7.76 min Scan# 540

Delta R.T. -0.07 min

Lab File: BF089547.D

Acq: 2 Aug 2016 15:13

Instrument :

BNA_F

ClientSampleId :

SB-52-13.0-14.0MSD

Tgt Ion:136 Resp: 186889

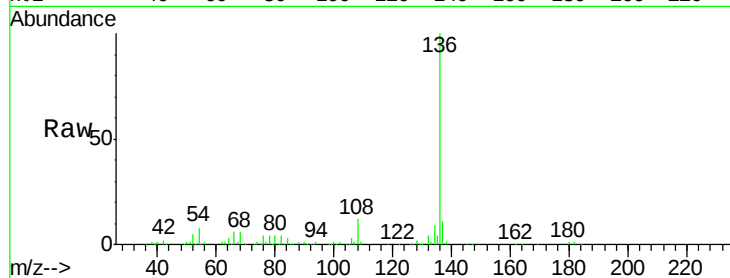
Ion Ratio Lower Upper

136 100

137 10.8 8.6 13.0

54 8.0 7.0 10.4

68 6.2 4.9 7.3

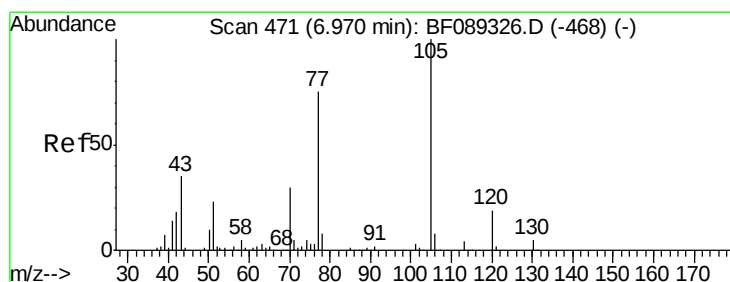
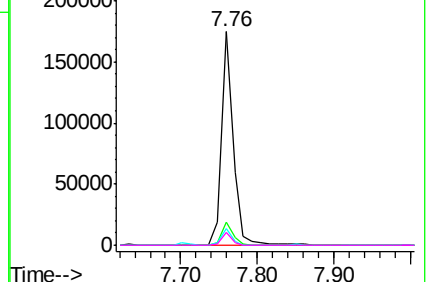
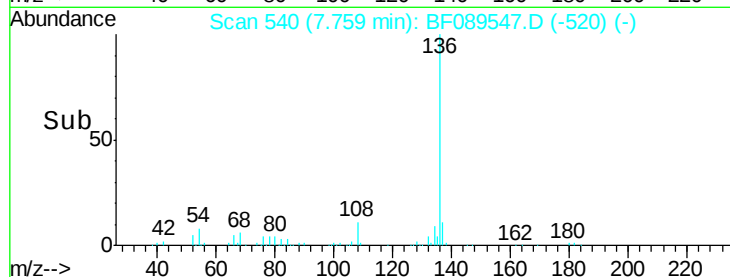


Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BF0

Ion 68.00 (67.70 to 68.70): BF0



#22

Acetophenone

Concen: 48.00 ng

RT: 6.90 min Scan# 465

Delta R.T. -0.07 min

Lab File: BF089547.D

Acq: 2 Aug 2016 15:13

Tgt Ion:105 Resp: 213570

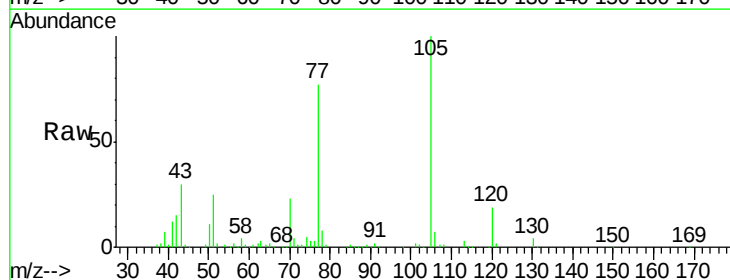
Ion Ratio Lower Upper

105 100

71 4.0 4.2 6.2#

51 24.7 18.7 28.1

120 18.7 15.8 23.6

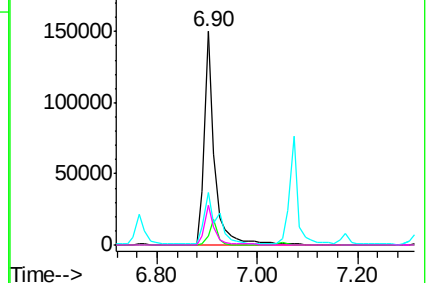
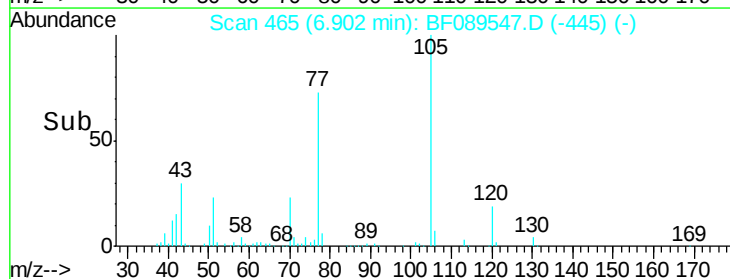


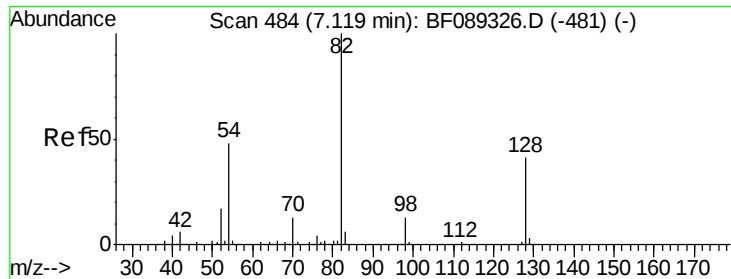
Abundance Ion 105.00 (104.70 to 105.70): E

Ion 71.00 (70.70 to 71.70): BF0

Ion 51.00 (50.70 to 51.70): BF0

Ion 120.00 (119.70 to 120.70): E

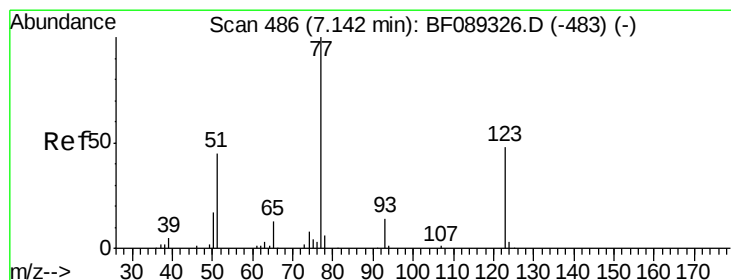
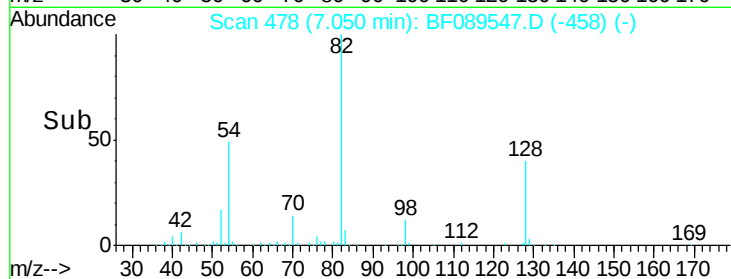
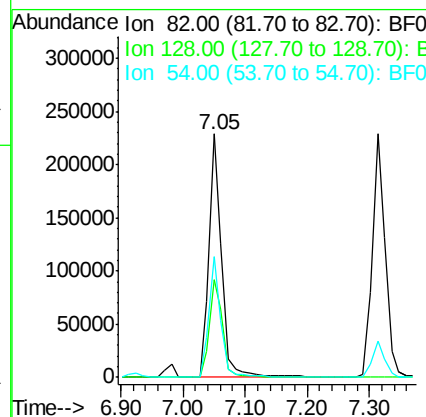
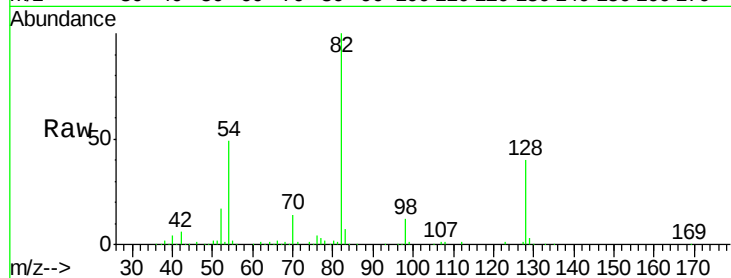




#23
 Nitrobenzene-d5
 Concen: 102.90 ng
 RT: 7.05 min Scan# 478
 Delta R.T. -0.07 min
 Lab File: BF089547.D
 Acq: 2 Aug 2016 15:13

Instrument :
 BNA_F
 ClientSampleId :
 SB-52-13.0-14.0MSD

Tgt Ion	Ratio	Lower	Upper
82	100		
128	40.4	32.5	48.7
54	49.4	38.8	58.2



#24
 Nitrobenzene
 Concen: 51.19 ng
 RT: 7.07 min Scan# 480
 Delta R.T. -0.07 min
 Lab File: BF089547.D
 Acq: 2 Aug 2016 15:13

Tgt Ion	Ratio	Lower	Upper
77	100		
123	45.3	37.2	55.8
65	12.7	10.2	15.4

