

Data Path : Z:\HPCHEM1\BNA F\DATA\BF071117\
 Data File : BF096644.D
 Acq On : 11 Jul 2017 15:08
 Operator : SJ/JU
 Sample : I4114-01MSD
 Misc :
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 NAA-SANDMSD

Quant Time: Jul 11 16:56:33 2017
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF070117.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Jul 07 13:02:33 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.69	152	103802	20.00	ng	-0.01
21) Naphthalene-d8	7.97	136	440057	20.00	ng	-0.02
38) Acenaphthene-d10	9.72	164	195561	20.00	ng	-0.01
63) Phenanthrene-d10	11.20	188	344109	20.00	ng	-0.01
75) Chrysene-d12	13.83	240	217285	20.00	ng	-0.01
86) Perylene-d12	15.22	264	190362	20.00	ng	-0.02

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) 2-Fluorophenol	5.30	112	911502	129.61	ng	0.00
7) Phenol-d6	6.34	99	1118948	129.42	ng	0.00
23) Nitrobenzene-d5	7.25	82	674393	92.09	ng	-0.02
41) 2,4,6-Tribromophenol	10.51	330	231614	151.62	ng	-0.01
44) 2-Fluorobiphenyl	9.05	172	1147293	100.31	ng	-0.01
78) Terphenyl-d14	12.79	244	927812	91.24	ng	-0.01

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) 1,4-Dioxane	2.36	88	115683	34.690	ng	# 72
3) Pyridine	3.06	79	314859	34.411	ng	# 62
4) n-Nitrosodimethylamine	3.00	42	206925	45.818	ng	# 80
6) Aniline	6.35	93	376723	33.712	ng	# 1
8) 2-Chlorophenol	6.47	128	347037	46.273	ng	# 95
9) Benzaldehyde	6.23	77	222661	41.150	ng	# 99
10) Phenol	6.35	94	446485	45.330	ng	# 83
11) bis(2-Chloroethyl)ether	6.43	93	332184	43.640	ng	# 91
12) 1,3-Dichlorobenzene	6.63	146	357931	45.517	ng	# 98
13) 1,4-Dichlorobenzene	6.70	146	362823	46.162	ng	# 96
14) 1,2-Dichlorobenzene	6.86	146	341300	47.294	ng	# 98
15) Benzyl Alcohol	6.83	79	285576	49.412	ng	# 97
16) 2,2'-oxybis(1-Chloropropan	6.97	45	698804	45.158	ng	# 92
17) 2-Methylphenol	6.95	107	283880	47.496	ng	# 99
18) Hexachloroethane	7.20	117	131387	46.109	ng	# 81
19) n-Nitroso-di-n-propylamine	7.11	70	231931	45.029	ng	# 84
20) 3+4-Methylphenols	7.10	107	333246	49.988	ng	# 95
22) Acetophenone	7.10	105	452361	47.046	ng	# 95
24) Nitrobenzene	7.27	77	346365	45.085	ng	# 94
25) Isophorone	7.52	82	635165	44.733	ng	# 93
26) 2-Nitrophenol	7.59	139	197713	48.622	ng	# 86
27) 2,4-Dimethylphenol	7.63	122	302559	43.698	ng	# 96
28) bis(2-Chloroethoxy)methane	7.72	93	429413	45.814	ng	# 97
29) 2,4-Dichlorophenol	7.83	162	294811	49.351	ng	# 99
30) 1,2,4-Trichlorobenzene	7.92	180	271338	48.152	ng	# 97
31) Naphthalene	7.99	128	999240	48.099	ng	# 100
32) Benzoic acid	7.71	122	20250	3.482	ng	# 86
33) 4-Chloroaniline	8.04	127	230115	26.667	ng	# 96
34) Hexachlorobutadiene	8.12	225	141057	48.804	ng	# 97
35) Caprolactam	8.42	113	56204	27.284	ng	# 55
36) 4-Chloro-3-methylphenol	8.53	107	311165	47.075	ng	# 89
37) 2-Methylnaphthalene	8.68	142	686575	51.918	ng	# 98
39) 1,2,4,5-Tetrachlorobenzene	8.85	216	234925	46.265	ng	# 99
40) Hexachlorocyclopentadiene	8.84	237	216830	87.822	ng	# 99

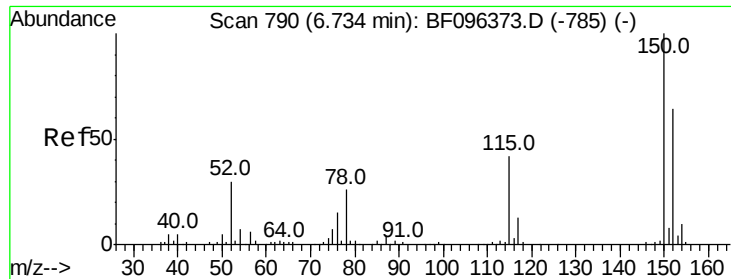
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 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
42) 2,4,6-Trichlorophenol	8.96	196	186297	46.378	nq	99
43) 2,4,5-Trichlorophenol	9.00	196	195738	49.283	nq	98
45) 1,1'-Biphenyl	9.15	154	750660	44.799	nq	98
46) 2-Chloronaphthalene	9.17	162	587215	47.025	nq	# 93
47) 2-Nitroaniline	9.26	65	216701	47.693	nq	94
48) Acenaphthylene	9.59	152	950350	48.030	nq	99
49) Dimethylphthalate	9.46	163	871028	59.664	nq	99
50) 2,6-Dinitrotoluene	9.51	165	159443	49.389	nq	# 85
51) Acenaphthene	9.76	154	547503	44.890	nq	99
52) 3-Nitroaniline	9.67	138	132386	32.878	nq	89
53) 2,4-Dinitrophenol	9.79	184	75080	43.787	nq	# 69
54) Dibenzofuran	9.93	168	806978	50.114	nq	99
55) 4-Nitrophenol	9.85	139	281753	84.423	nq	# 66
56) 2,4-Dinitrotoluene	9.92	165	207530	50.763	nq	# 78
57) Fluorene	10.27	166	594151	52.243	nq	99
58) 2,3,4,6-Tetrachlorophenol	10.05	232	150654	54.825	nq	98
59) Diethylphthalate	10.15	149	680358	49.305	nq	99
60) 4-Chlorophenyl-phenylether	10.26	204	247344	49.987	nq	94
61) 4-Nitroaniline	10.29	138	186846	51.033	nq	91
62) Azobenzene	10.42	77	649438	48.673	nq	92
64) 4,6-Dinitro-2-methylphenol	10.33	198	98000	41.295	nq	# 73
65) n-Nitrosodiphenylamine	10.38	169	570262	47.232	nq	99
66) 4-Bromophenyl-phenylether	10.75	248	162216	48.426	nq	95
67) Hexachlorobenzene	10.82	284	171977	46.900	nq	95
68) Atrazine	10.91	200	166252	48.198	nq	94
69) Pentachlorophenol	11.02	266	171697	79.003	nq	99
70) Phenanthrene	11.23	178	900024	48.384	nq	98
71) Anthracene	11.27	178	921947	48.637	nq	99
72) Carbazole	11.43	167	902795	47.357	nq	98
73) Di-n-butylphthalate	11.77	149	1056678	45.763	nq	99
74) Fluoranthene	12.41	202	892476	48.935	nq	98
76) Benzidine	12.53	184	399319	38.300	nq	# 92
77) Pyrene	12.63	202	915436	52.488	nq	99
79) Butylbenzylphthalate	13.26	149	445933	50.509	nq	# 80
80) Benzo(a)anthracene	13.82	228	626336	49.778	nq	98
81) 3,3'-Dichlorobenzidine	13.78	252	173247	33.523	nq	97
82) Chrysene	13.86	228	645943	49.022	nq	100
83) Bis(2-ethylhexyl)phthalate	13.83	149	499181	50.652	nq	# 100
84) Di-n-octyl phthalate	14.43	149	936228	48.241	nq	95
85) Indeno(1,2,3-cd)pyrene	16.57	276	590802	56.803	nq	99
87) Benzo(b)fluoranthene	14.83	252	606545	50.850	nq	97
88) Benzo(k)fluoranthene	14.86	252	477845	44.785	nq	96
89) Benzo(a)pyrene	15.17	252	522280	49.044	nq	99
90) Dibenzo(a,h)anthracene	16.59	278	475927	56.808	nq	98
91) Benzo(g,h,i)perylene	16.98	276	517824	59.648	nq	100

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

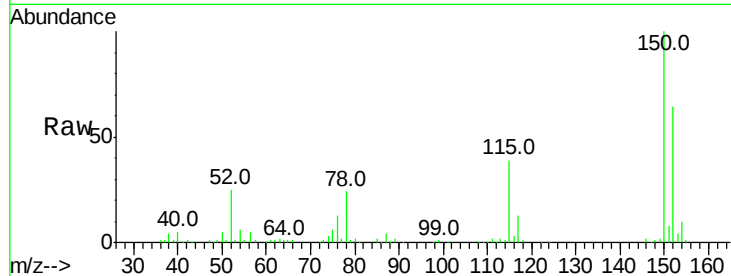


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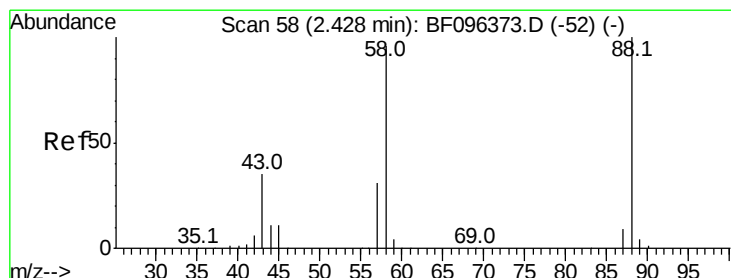
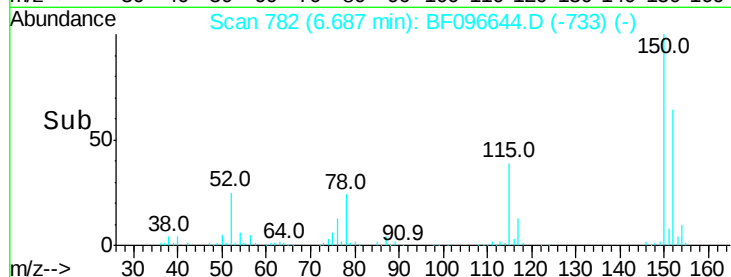
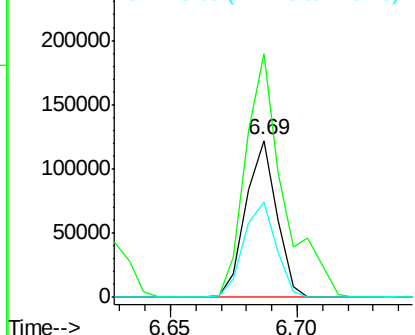
1,4-Dichlorobenzene-d4
 Concen: 20.000 ng
 RT: 6.69 min Scan# 782
 Delta R.T. -0.01 min
 Lab File: BF096644.D
 Acq: 11 Jul 2017 15:08

Instrument :
 BNA_F
 ClientSampleId :
 NAA-SANDMSD

Tot Ion:152 Resp: 103802
 Ion Ratio Lower Upper
 152 100
 150 155.4 126.2 189.2
 115 60.4 52.2 78.2



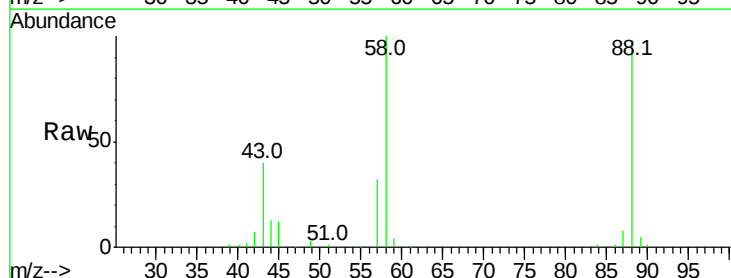
Abundance Ion 152.00 (151.70 to 152.70): E
 Ion 150.00 (149.70 to 150.70): E
 Ion 115.00 (114.70 to 115.70): E



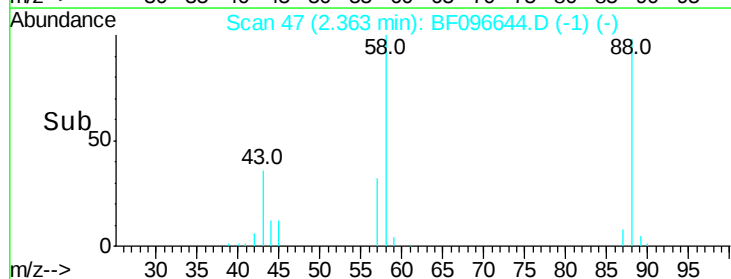
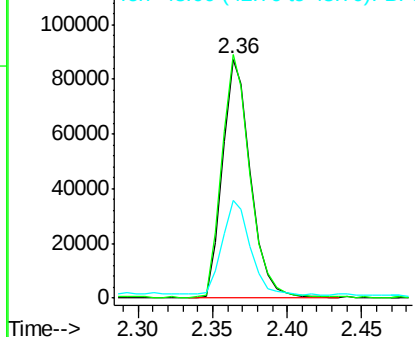
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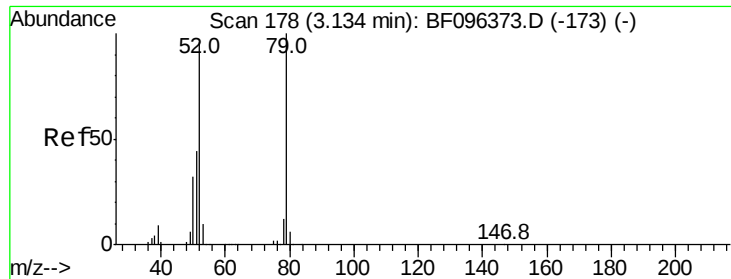
1,4-Dioxane
 Concen: 34.690 ng
 RT: 2.36 min Scan# 47
 Delta R.T. 0.00 min
 Lab File: BF096644.D
 Acq: 11 Jul 2017 15:08

Tgt Ion: 88 Resp: 115683
 Ion Ratio Lower Upper
 88 100
 58 103.4 61.4 92.0#
 43 39.3 23.4 35.0#



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

Pvridine

Concen: 34.411 ng

RT: 3.06 min Scan# 165

Delta R.T. 0.01 min

Lab File: BF096644.D

Acq: 11 Jul 2017 15:08

Instrument :

BNA_F

ClientSampleId :

NAA-SANDMSD

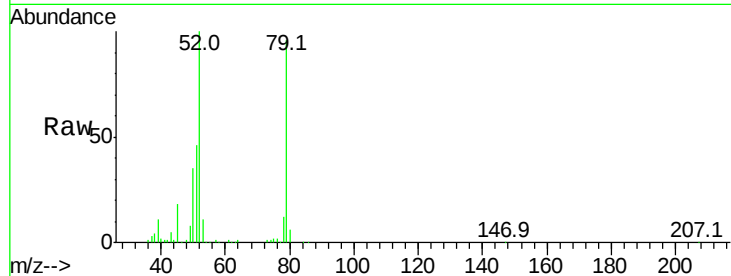
Tot Ion: 79 Resp: 314859

Ion Ratio Lower Upper

79 100

52 104.7 54.8 82.2#

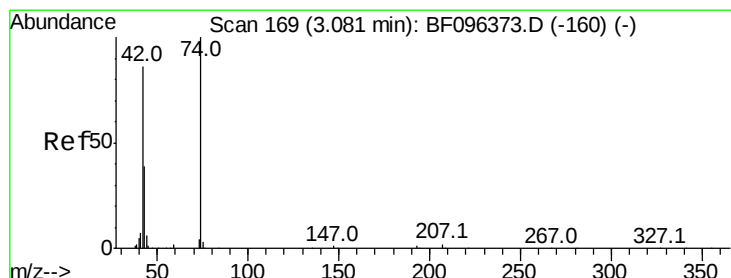
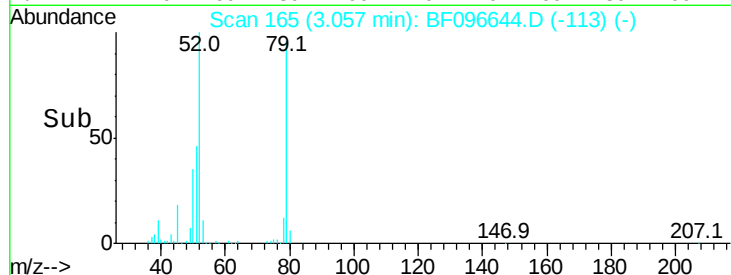
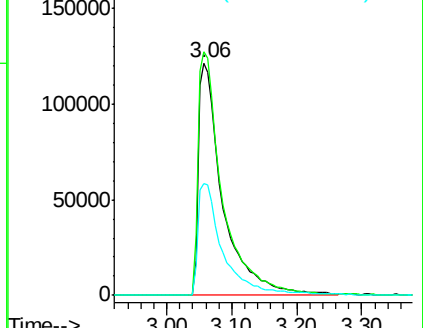
51 48.3 27.0 40.4#



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: 45.818 ng

RT: 3.00 min Scan# 155

Delta R.T. -0.01 min

Lab File: BF096644.D

Acq: 11 Jul 2017 15:08

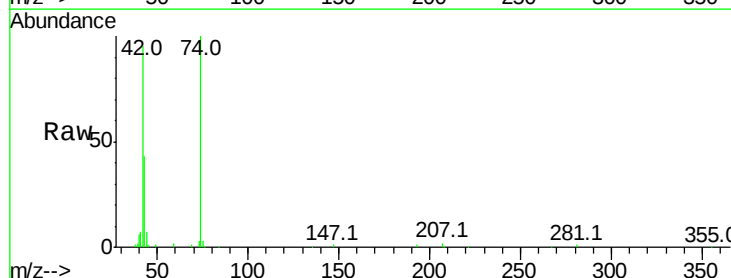
Tgt Ion: 42 Resp: 206925

Ion Ratio Lower Upper

42 100

74 105.0 103.9 155.9

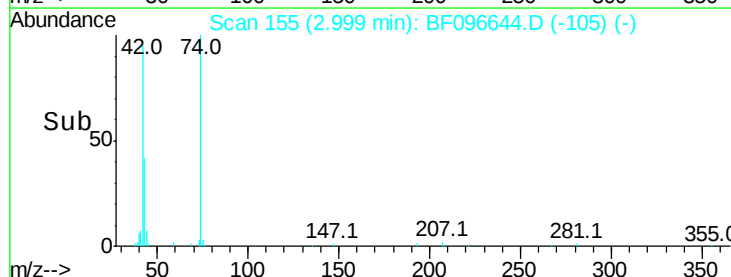
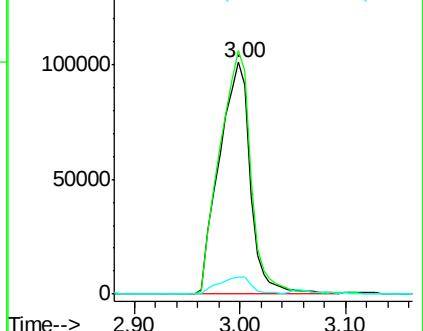
44 7.5 5.7 8.5

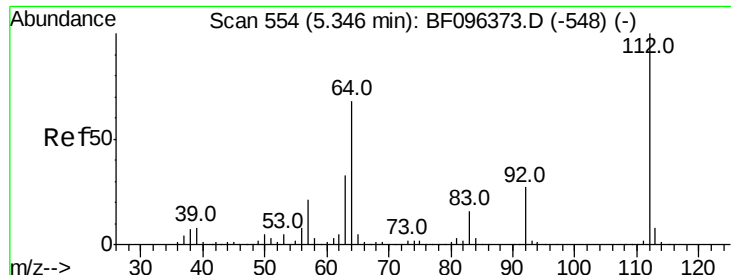


Abundance Ion 42.00 (41.70 to 42.70): BF0

Ion 74.00 (73.70 to 74.70): BF0

Ion 44.00 (43.70 to 44.70): BF0





#5

2-Fluorophenol

Concen: 129.607 ng

RT: 5.30 min Scan# 547

Delta R.T. -0.01 min

Lab File: BF096644.D

Acq: 11 Jul 2017 15:08

Instrument :

BNA_F

ClientSampleId :

NAA-SANDMSD

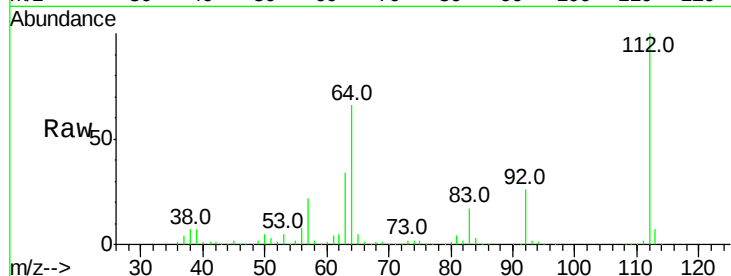
Tot Ion:112 Resp: 911502

Ion Ratio Lower Upper

112 100

64 65.9 46.0 69.0

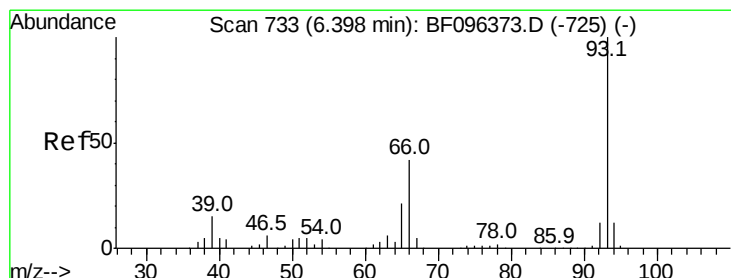
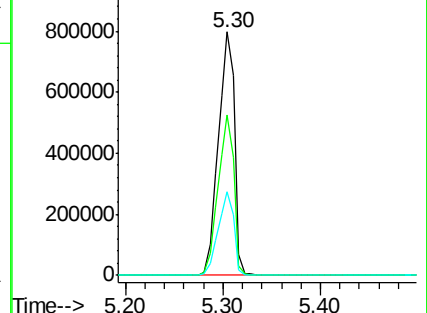
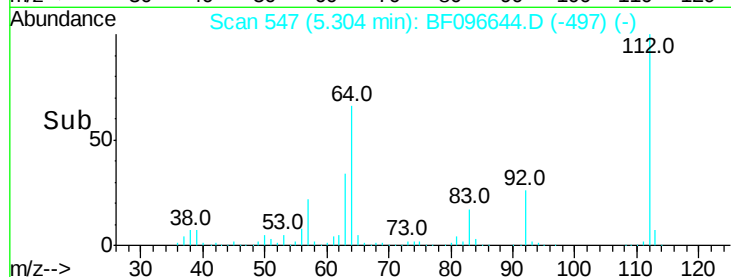
63 34.2 23.4 35.0



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: 33.712 ng

RT: 6.35 min Scan# 725

Delta R.T. -0.01 min

Lab File: BF096644.D

Acq: 11 Jul 2017 15:08

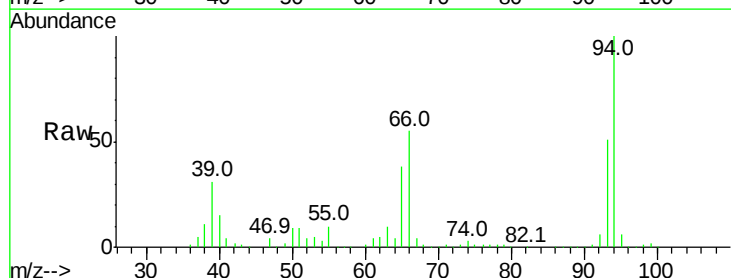
Tgt Ion: 93 Resp: 376723

Ion Ratio Lower Upper

93 100

66 108.3 32.9 49.3#

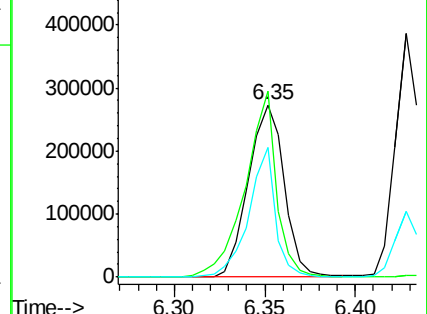
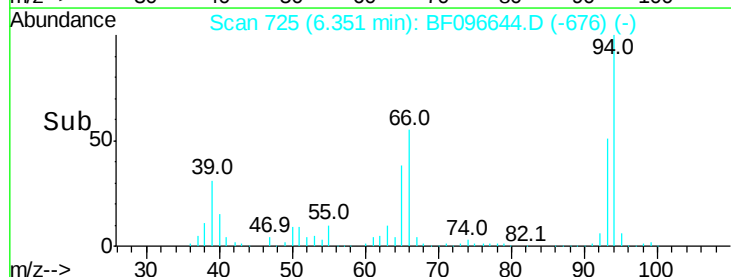
65 75.0 16.0 24.0#

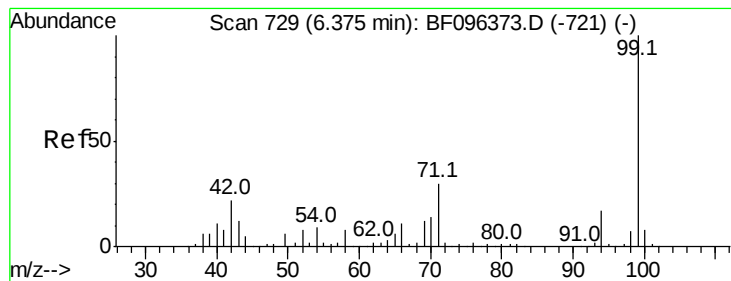


Abundance Ion 93.00 (92.70 to 93.70): BF0

Ion 66.00 (65.70 to 66.70): BF0

Ion 65.00 (64.70 to 65.70): BF0





#7

Phenol-d6

Concen: 129.420 ng

RT: 6.34 min Scan# 723

Delta R.T. -0.01 min

Lab File: BF096644.D

Acq: 11 Jul 2017 15:08

Instrument :

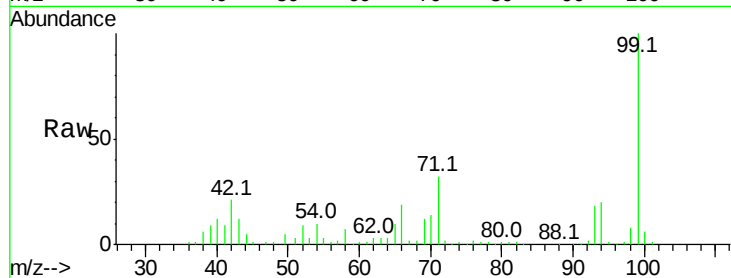
BNA_F

ClientSampleId :

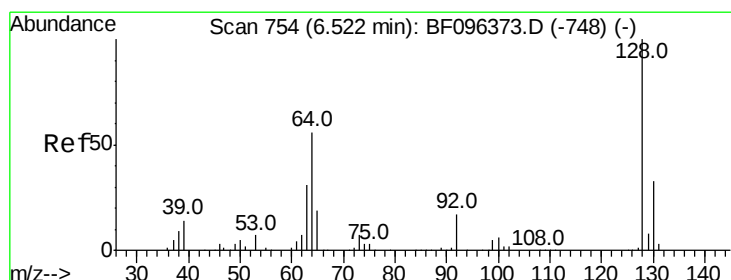
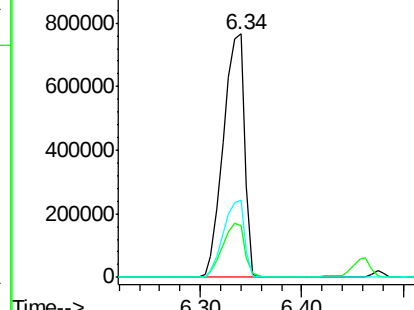
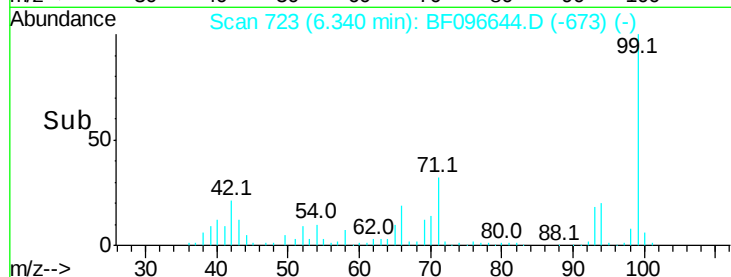
NAA-SANDMSD

Tot Ion: 99 Resp: 1118948

Ion	Ratio	Lower	Upper
99	100		
42	21.4	13.5	20.3#
71	31.8	24.5	36.7



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: 46.273 ng

RT: 6.47 min Scan# 746

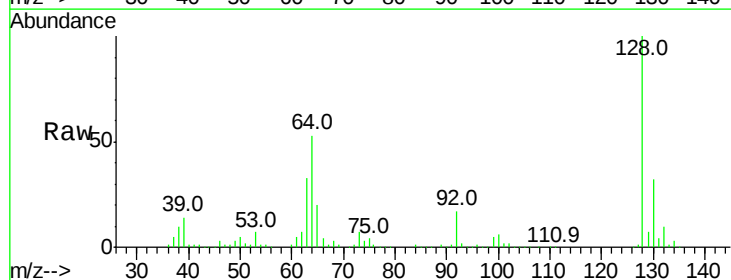
Delta R.T. -0.01 min

Lab File: BF096644.D

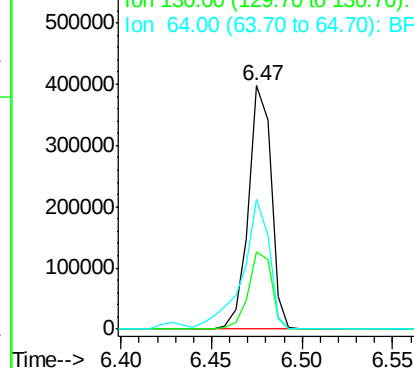
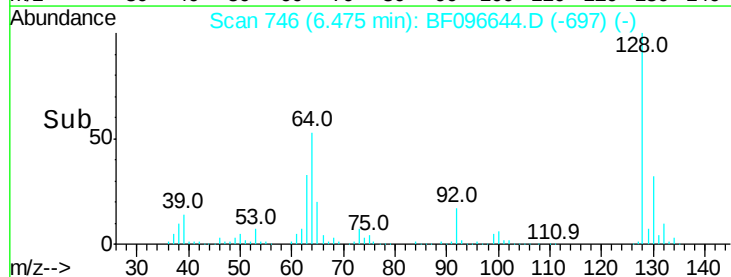
Acq: 11 Jul 2017 15:08

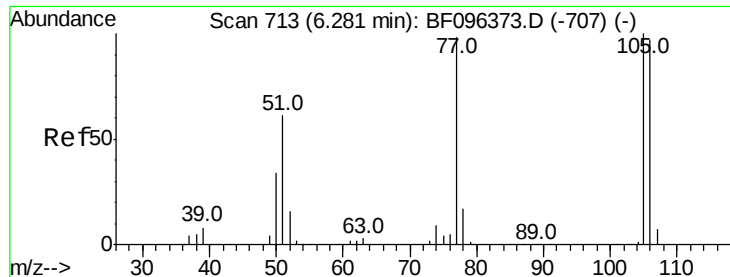
Tgt Ion: 128 Resp: 347037

Ion	Ratio	Lower	Upper
128	100		
130	31.7	12.9	52.9
64	53.4	28.4	68.4



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: 41.150 ng

RT: 6.23 min Scan# 704

Delta R.T. -0.02 min

Lab File: BF096644.D

Acq: 11 Jul 2017 15:08

Instrument :

BNA_F

ClientSampleId :

NAA-SANDMSD

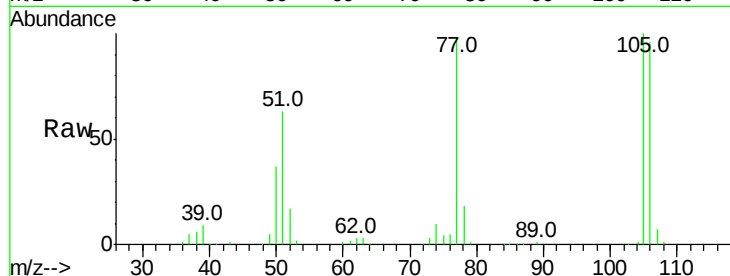
Tot Ion: 77 Resp: 222661

Ion Ratio Lower Upper

77 100

105 102.0 83.8 123.8

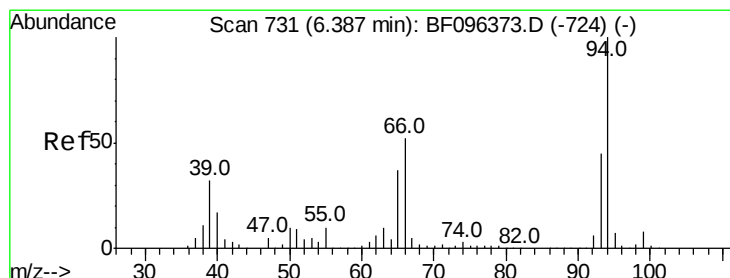
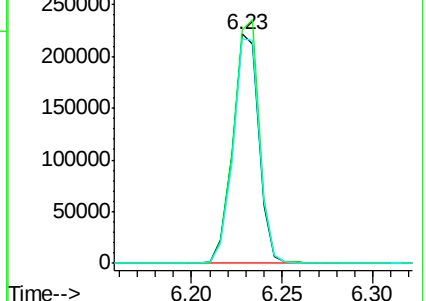
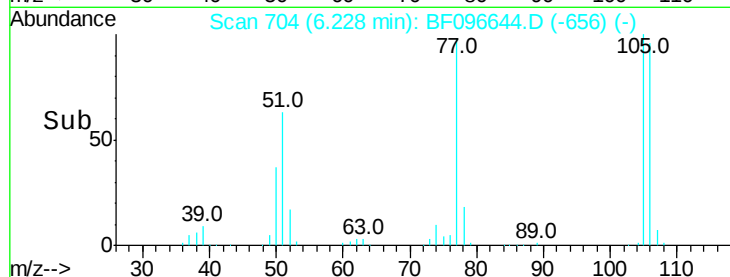
106 98.1 79.1 119.1



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: 45.330 ng

RT: 6.35 min Scan# 725

Delta R.T. -0.01 min

Lab File: BF096644.D

Acq: 11 Jul 2017 15:08

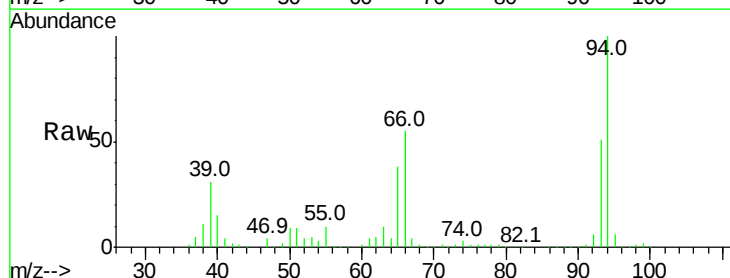
Tgt Ion: 94 Resp: 446485

Ion Ratio Lower Upper

94 100

65 37.9 9.9 49.9

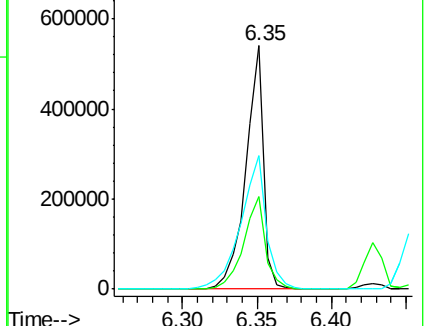
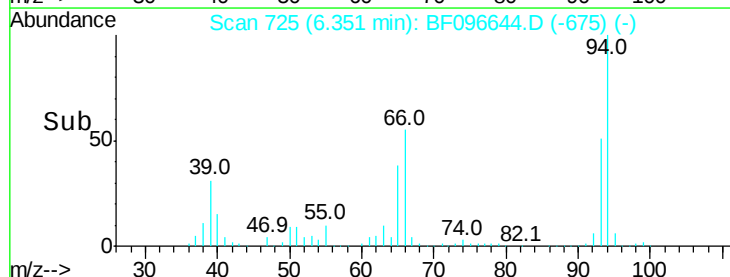
66 54.7 23.1 63.1

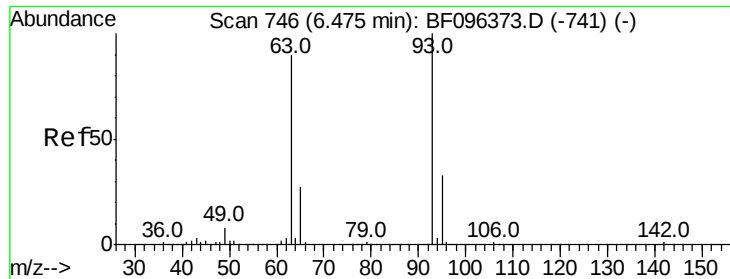


Abundance Ion 94.00 (93.70 to 94.70): BF0

Ion 65.00 (64.70 to 65.70): BF0

Ion 66.00 (65.70 to 66.70): BF0





#11

bis(2-Chloroethyl)ether

Concen: 43.640 ng

RT: 6.43 min Scan# 738

Delta R.T. -0.01 min

Lab File: BF096644.D

Acq: 11 Jul 2017 15:08

Instrument :

BNA_F

ClientSampleId :

NAA-SANDMSD

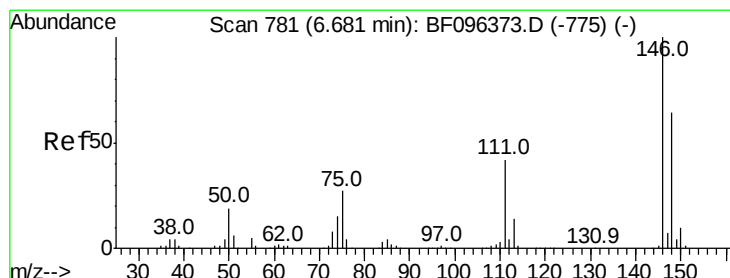
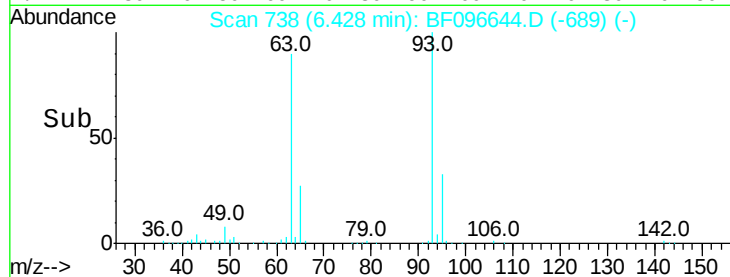
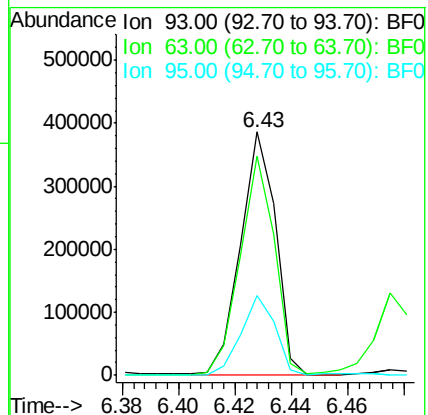
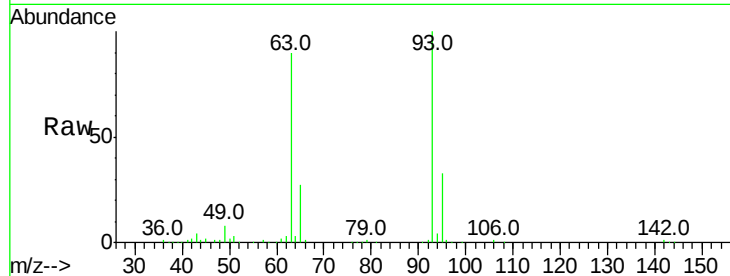
Tot Ion: 93 Resp: 332184

Ion Ratio Lower Upper

93 100

63 90.0 59.2 99.2

95 32.9 12.8 52.8



#12

1,3-Dichlorobenzene

Concen: 45.517 ng

RT: 6.63 min Scan# 772

Delta R.T. -0.01 min

Lab File: BF096644.D

Acq: 11 Jul 2017 15:08

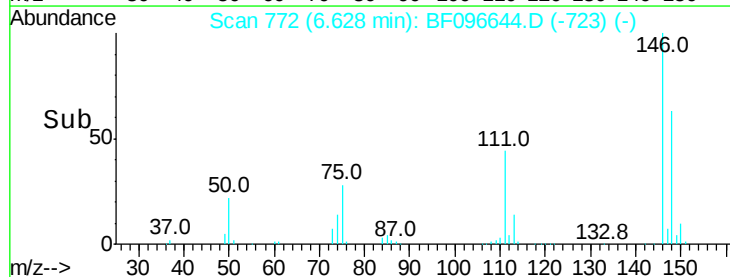
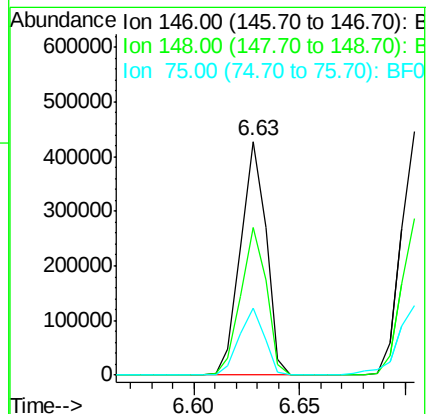
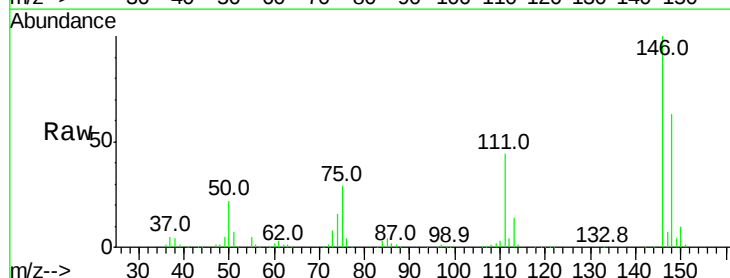
Tgt Ion: 146 Resp: 357931

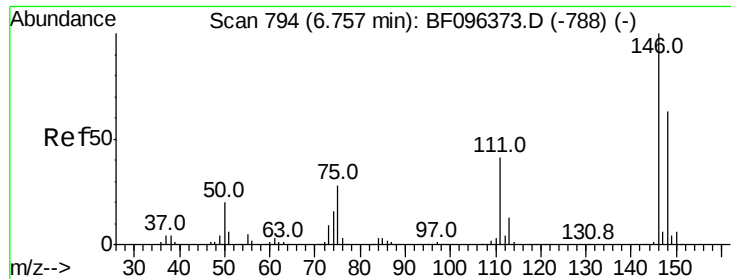
Ion Ratio Lower Upper

146 100

148 62.9 51.8 77.6

75 28.9 23.1 34.7

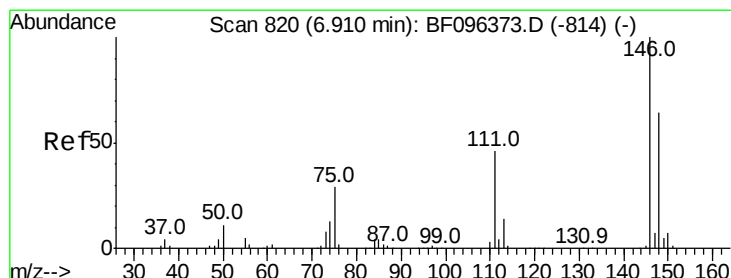
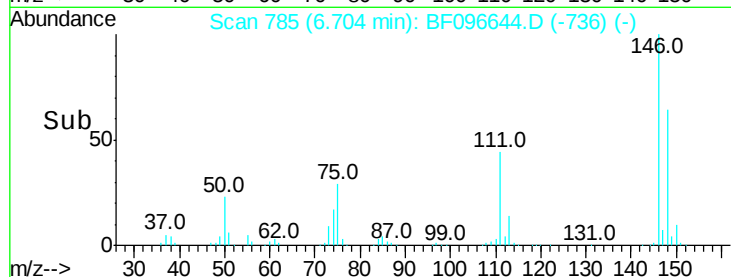
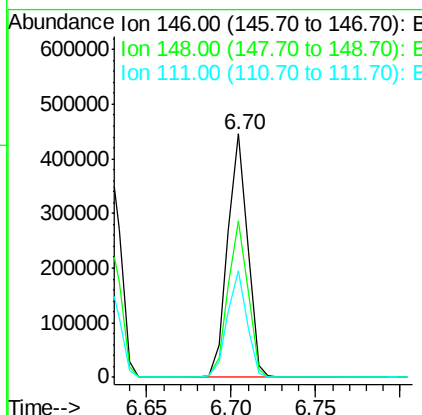
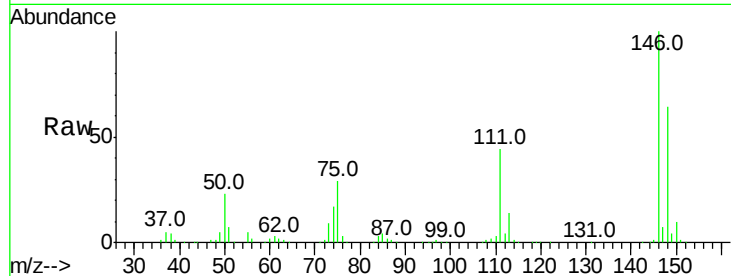




#13
 1,4-Dichlorobenzene
 Concen: 46.162 ng
 RT: 6.70 min Scan# 785
 Delta R.T. -0.01 min
 Lab File: BF096644.D
 Acq: 11 Jul 2017 15:08

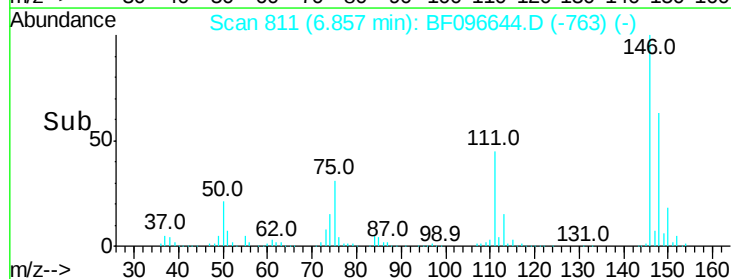
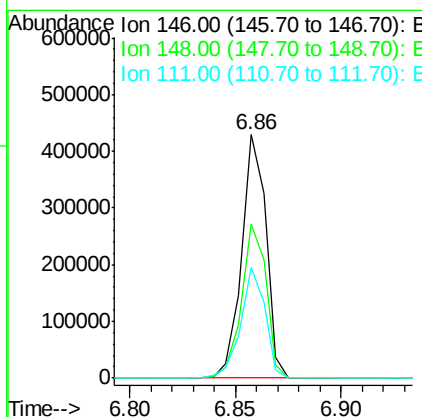
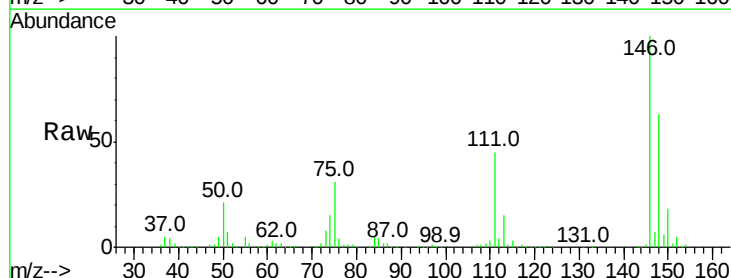
Instrument :
 BNA_F
 ClientSampleId :
 NAA-SANDMSD

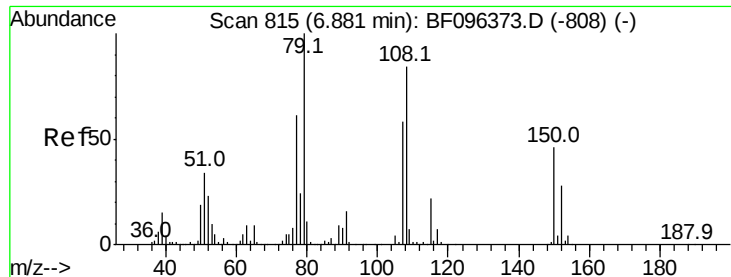
Tot Ion:146 Resp: 362823
 Ion Ratio Lower Upper
 146 100
 148 64.3 52.2 78.2
 111 43.6 30.3 45.5



#14
 1,2-Dichlorobenzene
 Concen: 47.294 ng
 RT: 6.86 min Scan# 811
 Delta R.T. -0.02 min
 Lab File: BF096644.D
 Acq: 11 Jul 2017 15:08

Tgt Ion:146 Resp: 341300
 Ion Ratio Lower Upper
 146 100
 148 63.2 50.4 75.6
 111 45.2 38.2 57.4





#15

Benzyl Alcohol

Concen: 49.412 ng

RT: 6.83 min Scan# 807

Delta R.T. -0.01 min

Lab File: BF096644.D

Acq: 11 Jul 2017 15:08

Instrument :

BNA_F

ClientSampleId :

NAA-SANDMSD

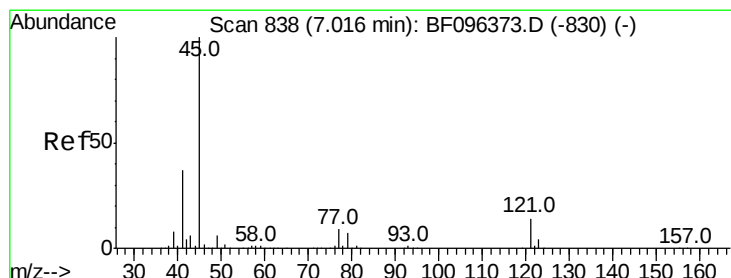
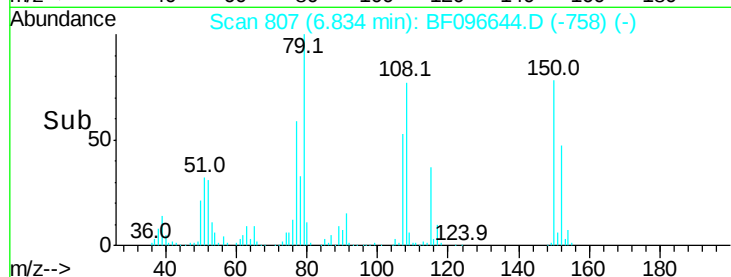
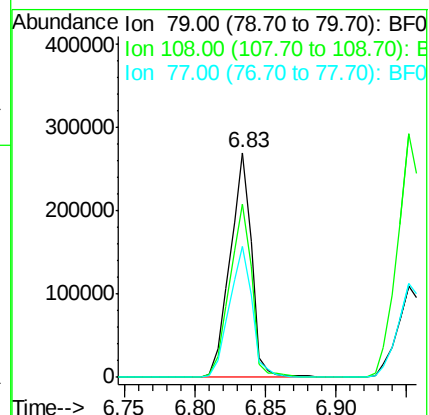
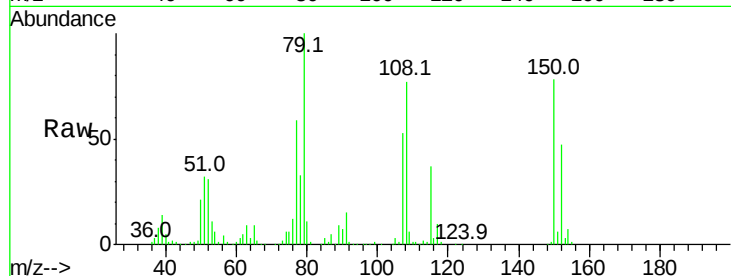
Tot Ion: 79 Resp: 285576

Ion Ratio Lower Upper

79 100

108 77.4 63.4 95.0

77 58.6 49.2 73.8



#16

2,2'-oxybis(1-chloropropane)

Concen: 45.158 ng

RT: 6.97 min Scan# 830

Delta R.T. -0.01 min

Lab File: BF096644.D

Acq: 11 Jul 2017 15:08

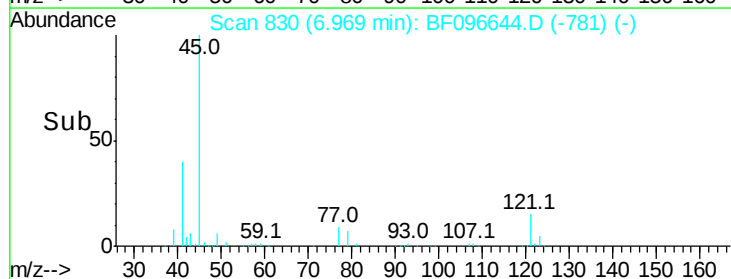
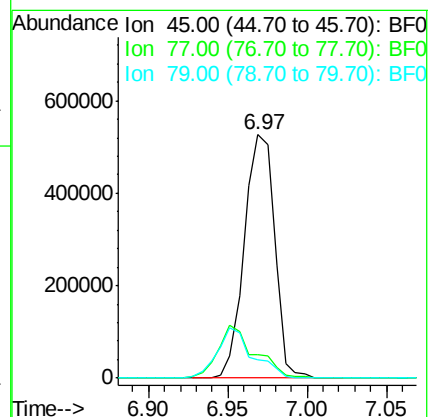
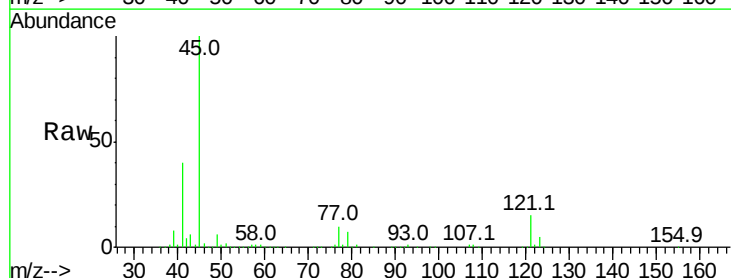
Tgt Ion: 45 Resp: 698804

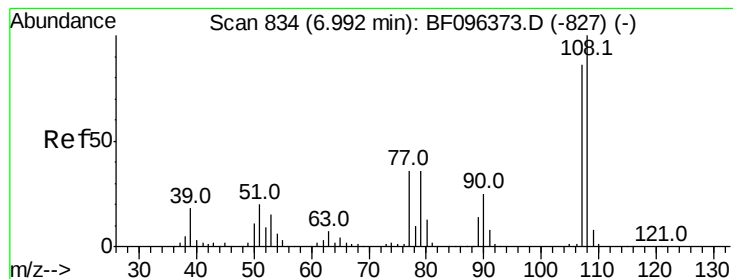
Ion Ratio Lower Upper

45 100

77 9.7 0.0 33.2

79 7.5 0.0 30.0





#17

2-Methylphenol

Concen: 47.496 ng

RT: 6.95 min Scan# 827

Delta R.T. -0.01 min

Lab File: BF096644.D

Acq: 11 Jul 2017 15:08

Instrument :

BNA_F

ClientSampleId :

NAA-SANDMSD

Tot Ion:107 Resp: 283880

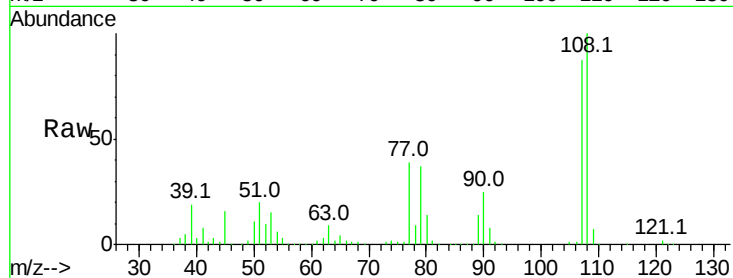
Ion Ratio Lower Upper

107 100

108 115.0 93.4 140.0

77 44.5 35.8 53.6

79 42.8 34.8 52.2

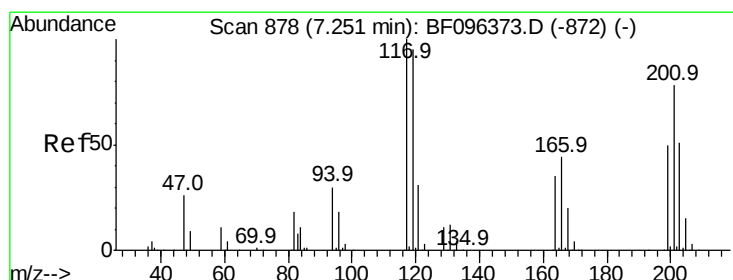
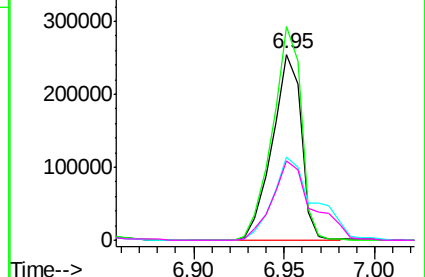
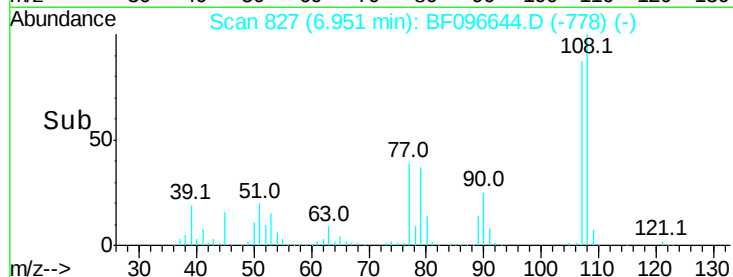


Abundance Ion 107.00 (106.70 to 107.70): E

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: 46.109 ng

RT: 7.20 min Scan# 869

Delta R.T. -0.02 min

Lab File: BF096644.D

Acq: 11 Jul 2017 15:08

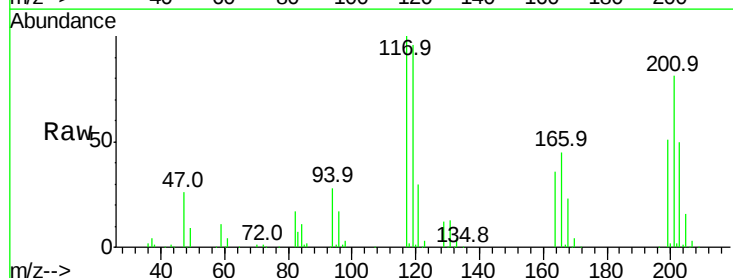
Tgt Ion:117 Resp: 131387

Ion Ratio Lower Upper

117 100

119 95.6 77.4 116.0

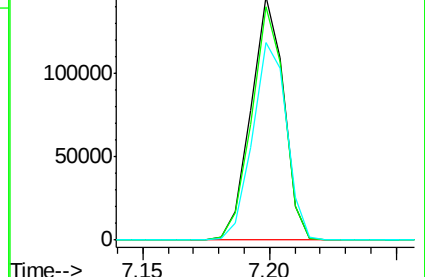
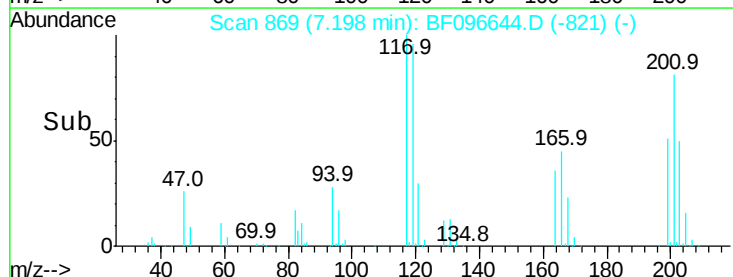
201 80.9 94.6 141.8#

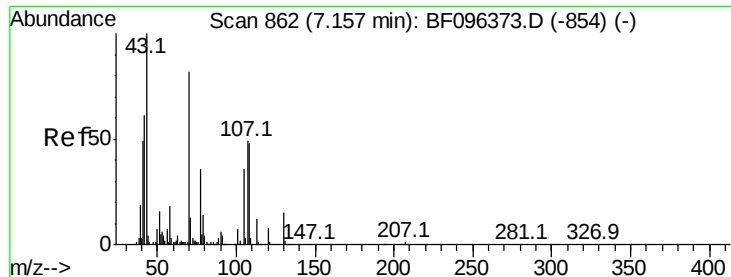


Abundance Ion 117.00 (116.70 to 117.70): E

Ion 119.00 (118.70 to 119.70): E

Ion 201.00 (200.70 to 201.70): E

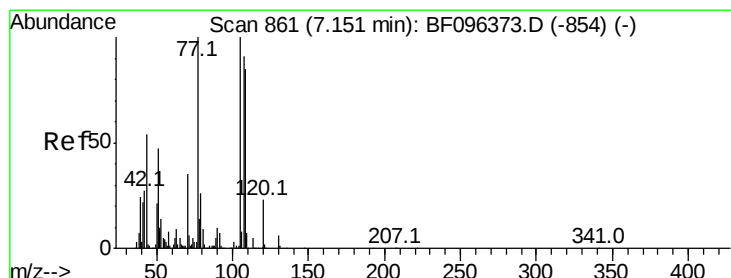
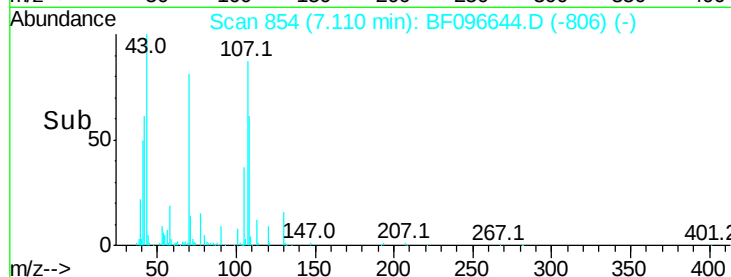
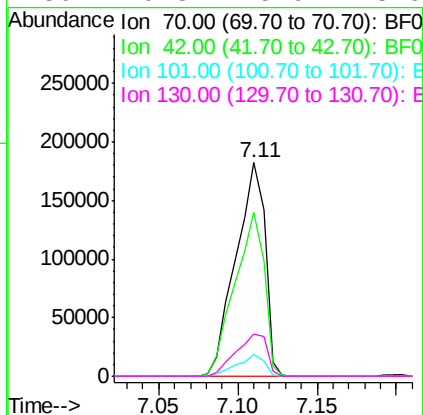
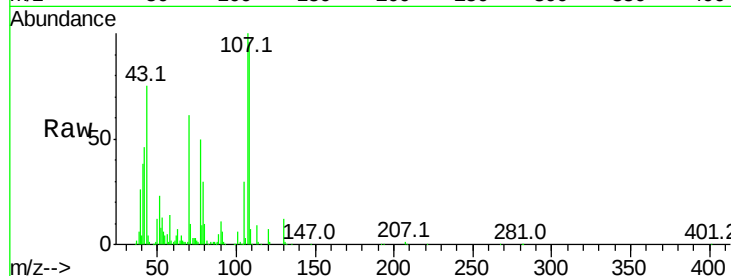




#19
n-Nitroso-di-n-propylamine
Concen: 45.029 ng
RT: 7.11 min Scan# 854
Delta R.T. -0.02 min
Lab File: BF096644.D
Acq: 11 Jul 2017 15:08

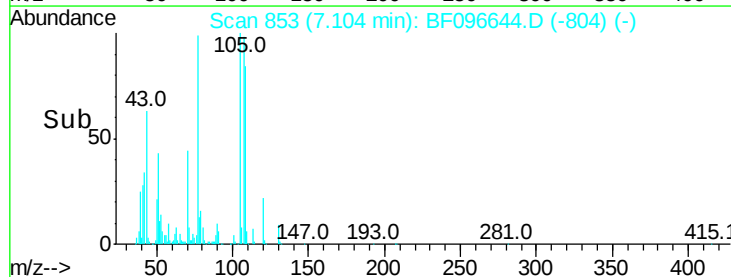
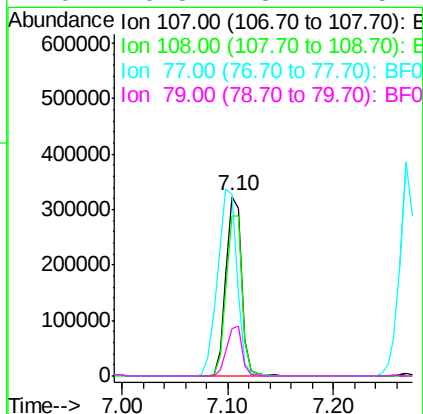
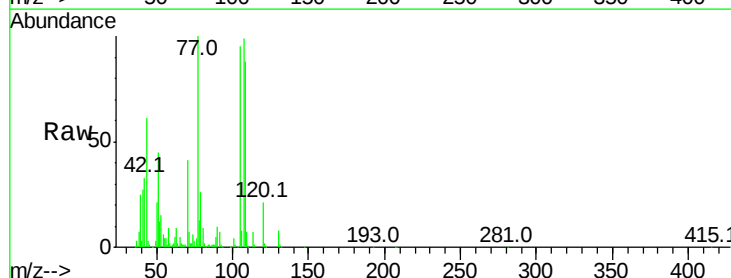
Instrument :
BNA_F
ClientSampleId :
NAA-SANDMSD

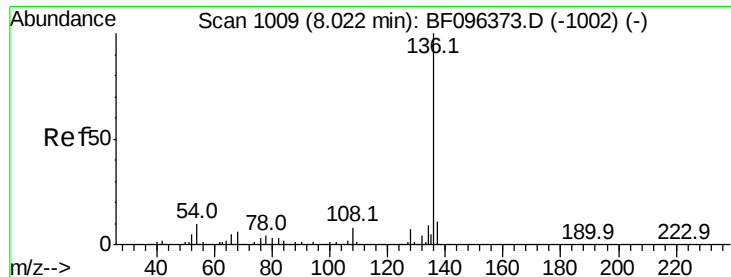
Tot Ion: 70 Resp: 231931
Ion Ratio Lower Upper
70 100
42 76.6 47.2 70.8#
101 9.9 7.2 10.8
130 19.8 15.9 23.9



#20
3+4-Methylphenols
Concen: 49.988 ng
RT: 7.10 min Scan# 853
Delta R.T. -0.01 min
Lab File: BF096644.D
Acq: 11 Jul 2017 15:08

Tgt Ion: 107 Resp: 333246
Ion Ratio Lower Upper
107 100
108 89.0 71.0 111.0
77 101.4 90.5 130.5
79 26.3 8.4 48.4

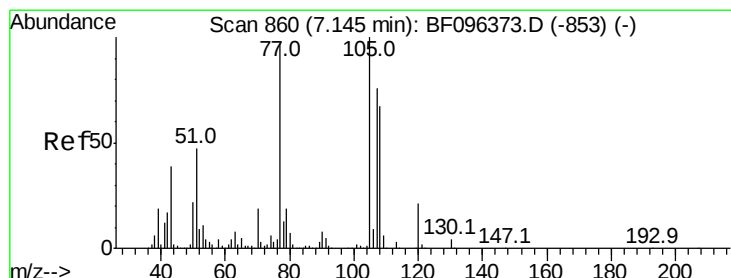
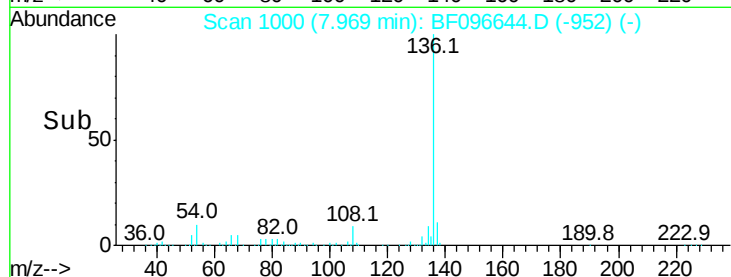
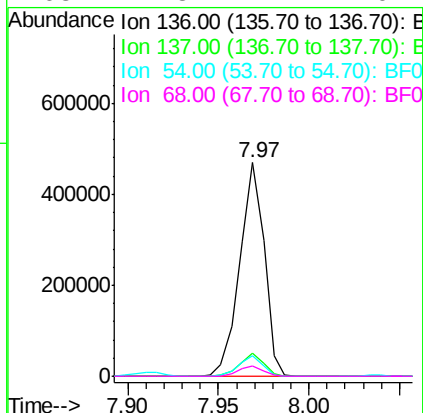
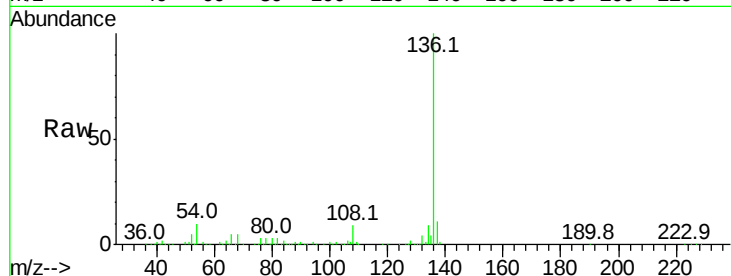




#21
Naphthalene-d8
Concen: 20.000 ng
RT: 7.97 min Scan# 1000
Delta R.T. -0.02 min
Lab File: BF096644.D
Acq: 11 Jul 2017 15:08

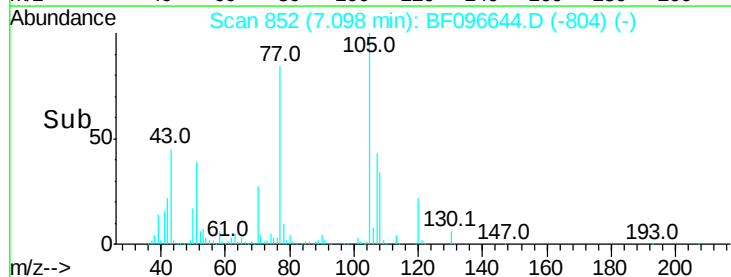
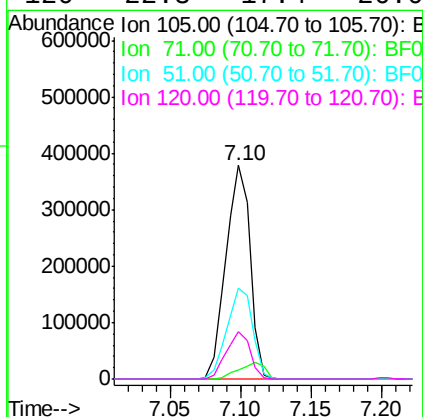
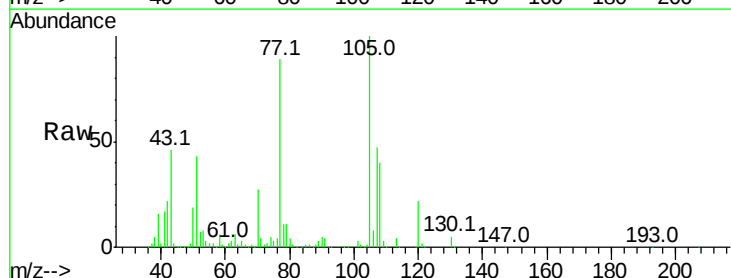
Instrument :
BNA_F
ClientSampleId :
NAA-SANDMSD

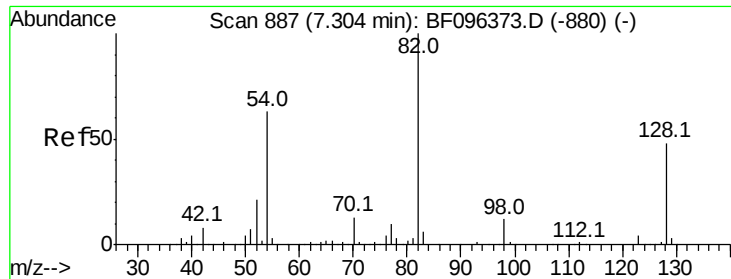
Tot Ion	Ratio	Lower	Upper
136	100		
137	10.8	8.5	12.7
54	9.6	4.9	7.3#
68	4.8	4.1	6.1



#22
Acetophenone
Concen: 47.046 ng
RT: 7.10 min Scan# 852
Delta R.T. -0.02 min
Lab File: BF096644.D
Acq: 11 Jul 2017 15:08

Tgt Ion	Ratio	Lower	Upper
105	100		
71	4.4	2.8	4.2#
51	42.5	30.7	46.1
120	22.3	17.4	26.0

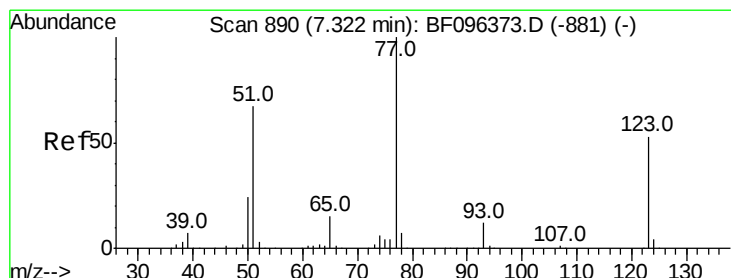
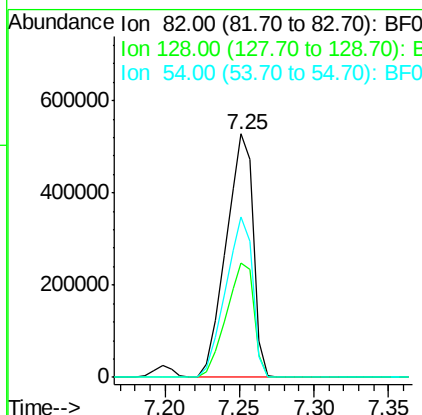
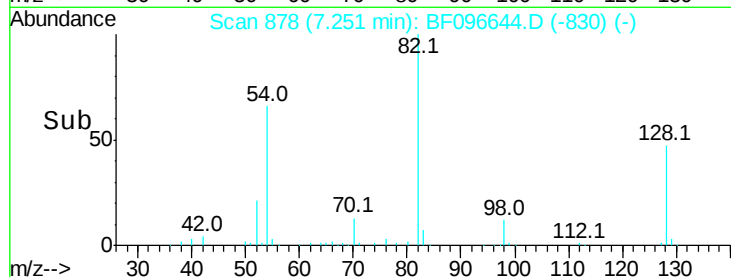
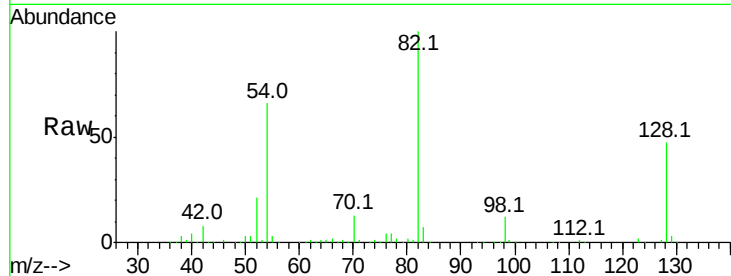




#23
 Nitrobenzene-d5
 Concen: 92.090 ng
 RT: 7.25 min Scan# 878
 Delta R.T. -0.02 min
 Lab File: BF096644.D
 Acq: 11 Jul 2017 15:08

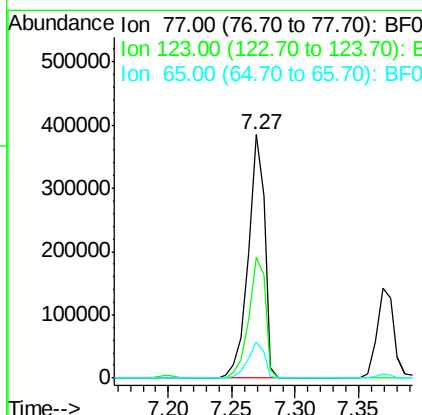
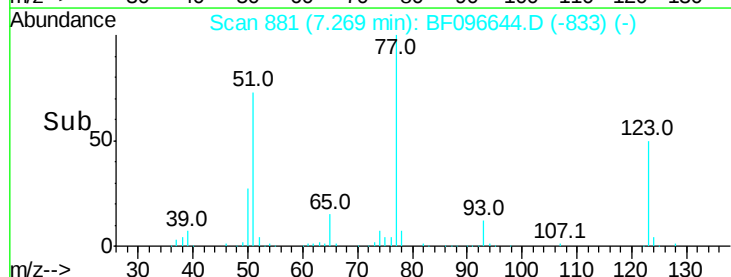
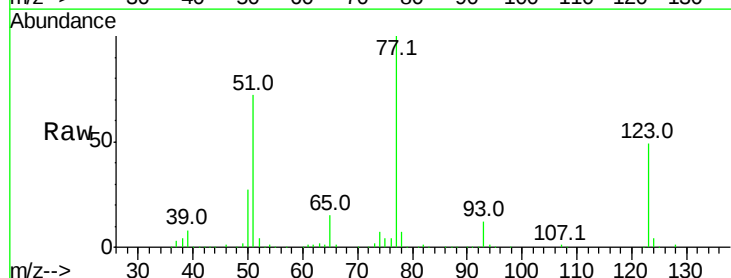
Instrument :
 BNA_F
 ClientSampleId :
 NAA-SANDMSD

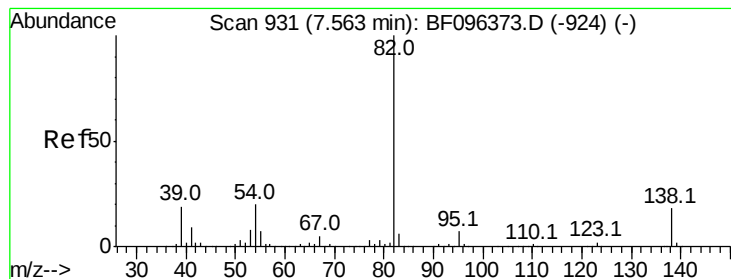
Tot Ion	Ratio	Lower	Upper
82	100		
128	47.2	34.0	51.0
54	65.8	42.2	63.2#



#24
 Nitrobenzene
 Concen: 45.085 ng
 RT: 7.27 min Scan# 881
 Delta R.T. -0.02 min
 Lab File: BF096644.D
 Acq: 11 Jul 2017 15:08

Tgt Ion	Ratio	Lower	Upper
77	100		
123	49.3	35.8	53.8
65	15.0	10.6	15.8





#25

Isophorone

Concen: 44.733 ng

RT: 7.52 min Scan# 923

Delta R.T. -0.01 min

Lab File: BF096644.D

Acq: 11 Jul 2017 15:08

Instrument :

BNA_F

ClientSampleId :

NAA-SANDMSD

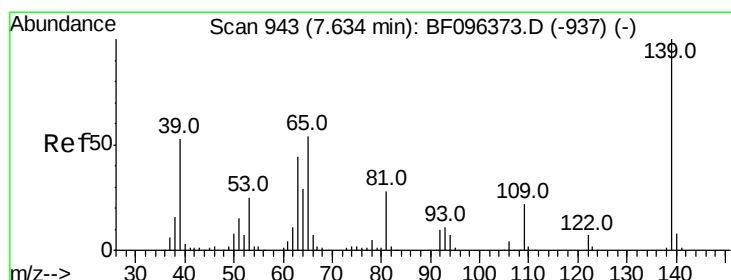
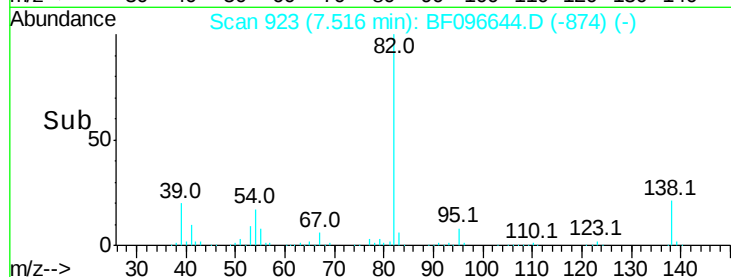
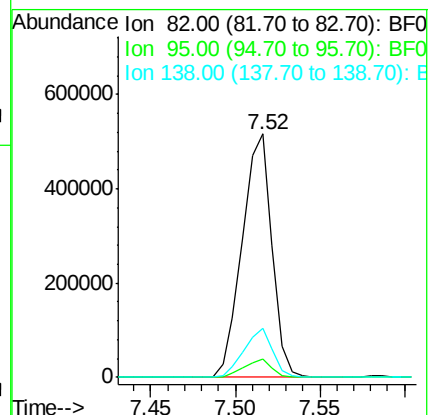
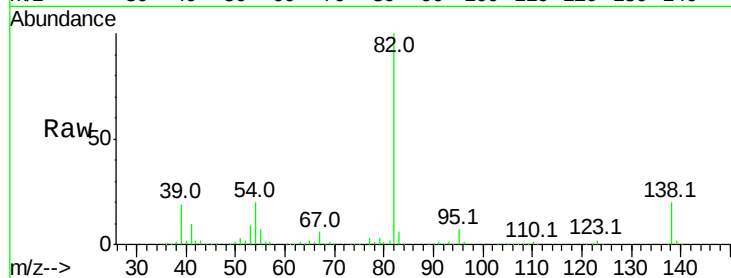
Tot Ion: 82 Resp: 635165

Ion Ratio Lower Upper

82 100

95 7.3 5.3 7.9

138 20.0 13.1 19.7#



#26

2-Nitrophenol

Concen: 48.622 ng

RT: 7.59 min Scan# 935

Delta R.T. -0.01 min

Lab File: BF096644.D

Acq: 11 Jul 2017 15:08

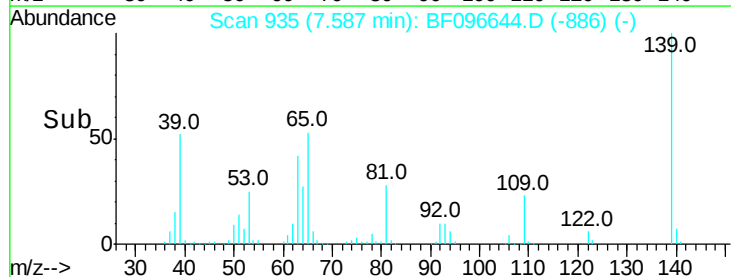
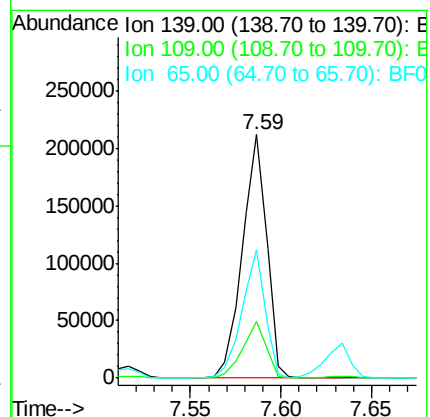
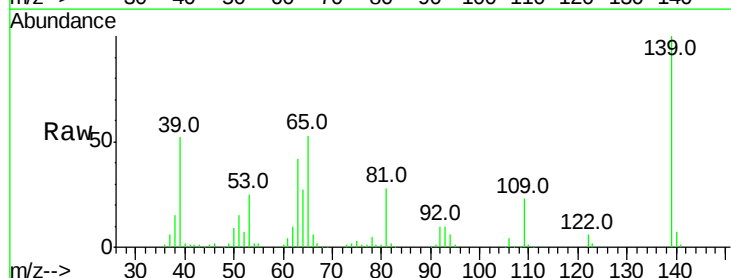
Tgt Ion: 139 Resp: 197713

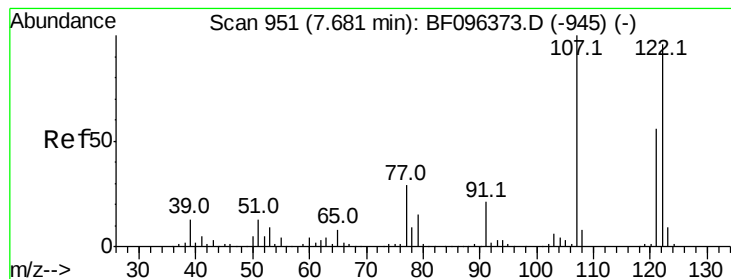
Ion Ratio Lower Upper

139 100

109 23.2 21.0 31.6

65 52.8 33.0 49.6#





#27

2,4-Dimethylphenol

Concen: 43.698 ng

RT: 7.63 min Scan# 943

Delta R.T. -0.01 min

Lab File: BF096644.D

Acq: 11 Jul 2017 15:08

Instrument :

BNA_F

ClientSampleId :

NAA-SANDMSD

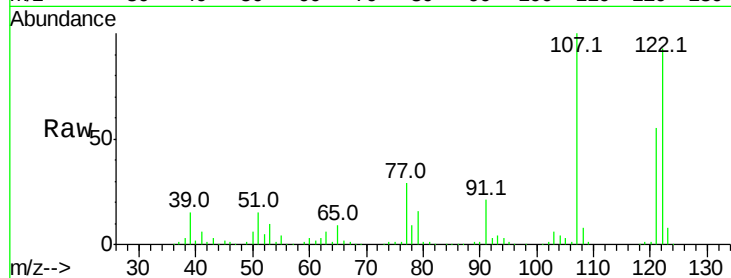
Tot Ion:122 Resp: 302559

Ion Ratio Lower Upper

122 100

107 107.1 89.2 133.8

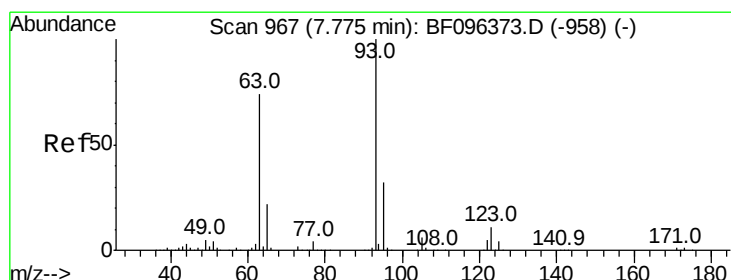
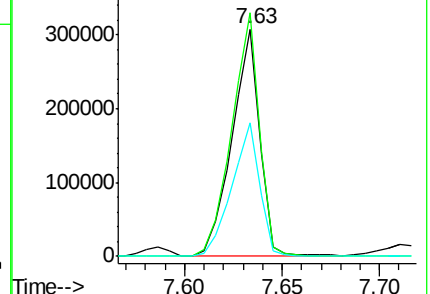
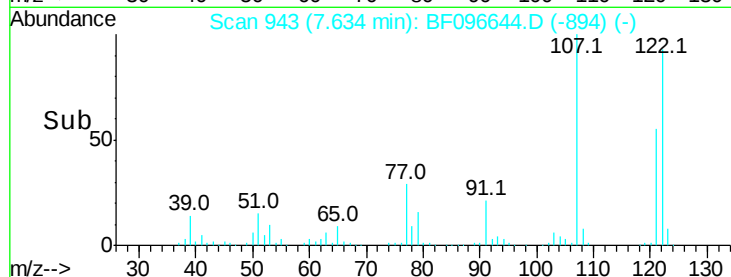
121 58.5 45.2 67.8



Abundance Ion 122.00 (121.70 to 122.70): E

Ion 107.00 (106.70 to 107.70): E

Ion 121.00 (120.70 to 121.70): E



#28

bis(2-Chloroethoxy)methane

Concen: 45.814 ng

RT: 7.72 min Scan# 958

Delta R.T. -0.02 min

Lab File: BF096644.D

Acq: 11 Jul 2017 15:08

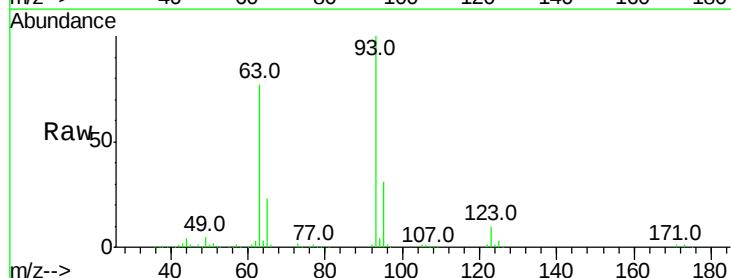
Tgt Ion: 93 Resp: 429413

Ion Ratio Lower Upper

93 100

95 31.5 26.5 39.7

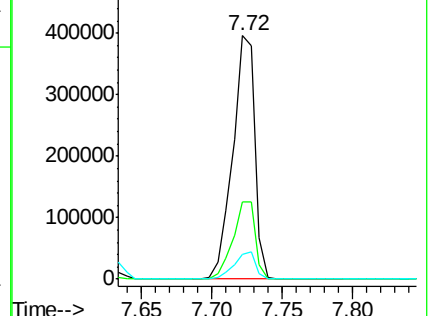
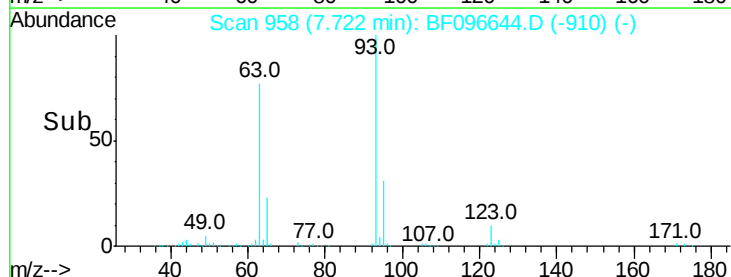
123 10.4 9.0 13.4

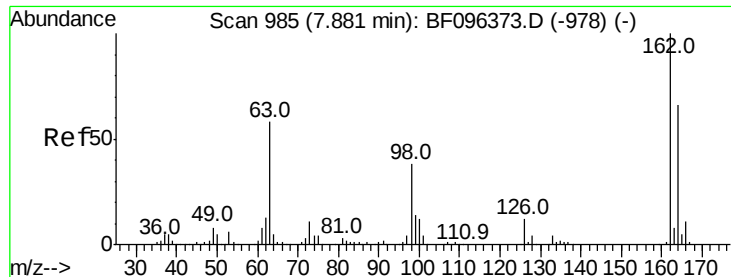


Abundance Ion 93.00 (92.70 to 93.70): BF0

Ion 95.00 (94.70 to 95.70): BF0

Ion 123.00 (122.70 to 123.70): E

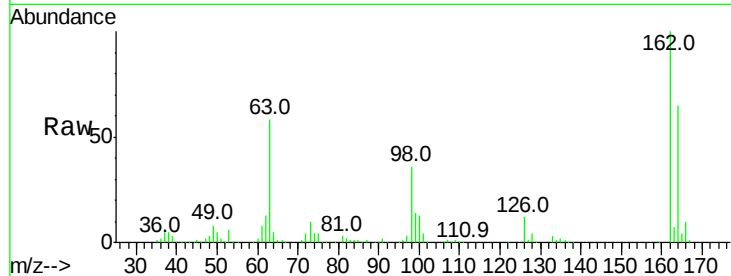




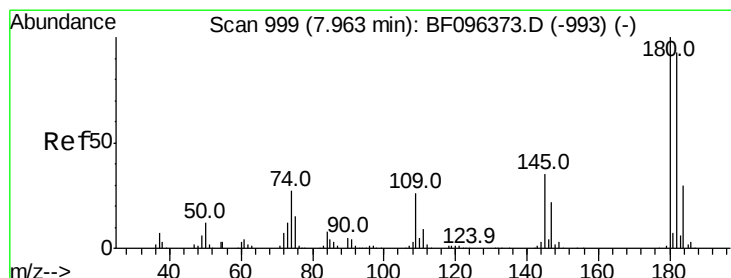
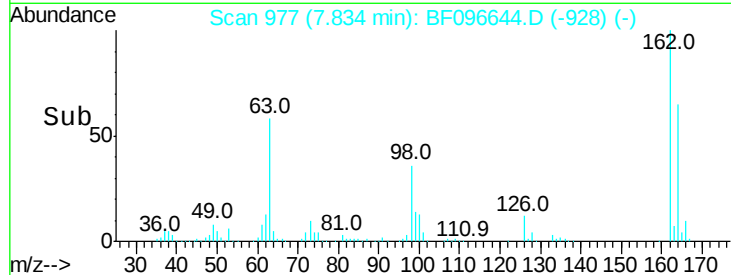
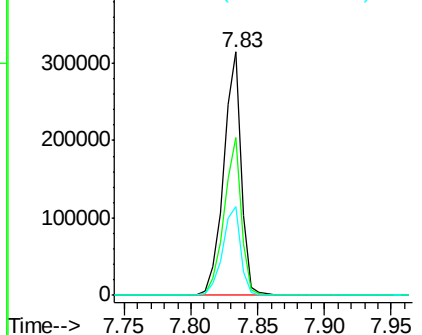
#29
 2,4-Dichlorophenol
 Concen: 49.351 ng
 RT: 7.83 min Scan# 977
 Delta R.T. -0.01 min
 Lab File: BF096644.D
 Acq: 11 Jul 2017 15:08

Instrument :
 BNA_F
 ClientSampleId :
 NAA-SANDMSD

Tot Ion	Ratio	Lower	Upper
162	100		
164	64.7	44.6	84.6
98	36.3	14.8	54.8

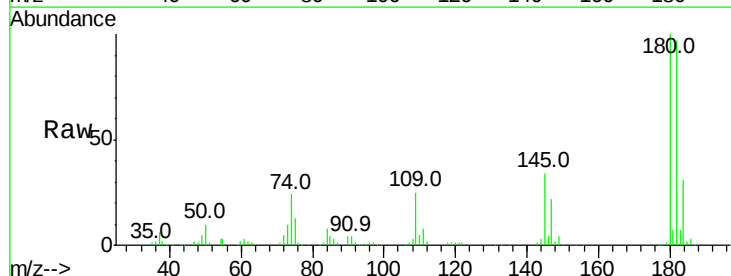


Abundance Ion 162.00 (161.70 to 162.70): E
 Ion 164.00 (163.70 to 164.70): E
 Ion 98.00 (97.70 to 98.70): BF0

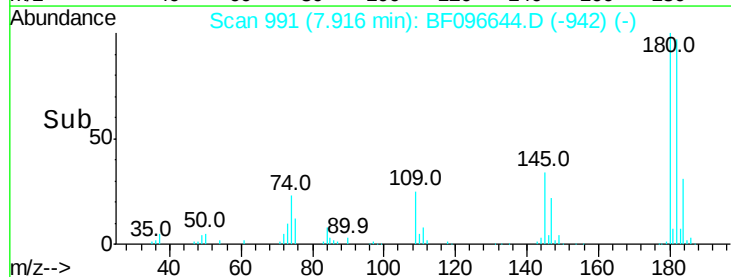
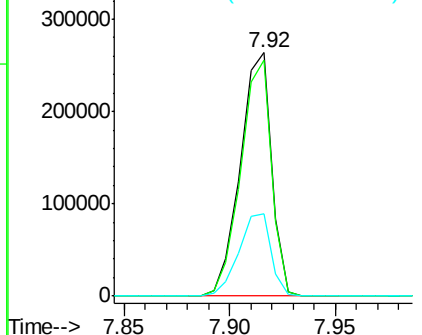


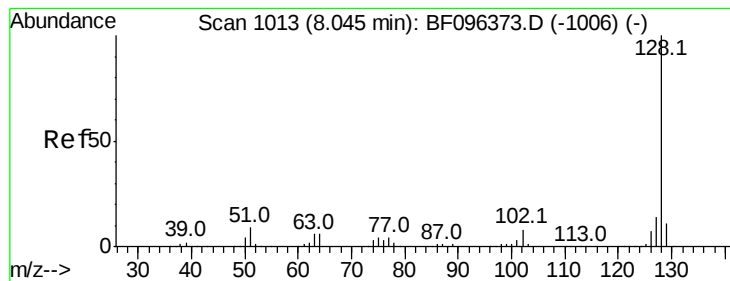
#30
 1,2,4-Trichlorobenzene
 Concen: 48.152 ng
 RT: 7.92 min Scan# 991
 Delta R.T. -0.01 min
 Lab File: BF096644.D
 Acq: 11 Jul 2017 15:08

Tgt Ion	Ratio	Lower	Upper
180	100		
182	97.1	75.8	113.6
145	33.8	25.3	37.9



Abundance Ion 180.00 (179.70 to 180.70): E
 Ion 182.00 (181.70 to 182.70): E
 Ion 145.00 (144.70 to 145.70): E





#31

Naphthalene

Concen: 48.099 ng

RT: 7.99 min Scan# 1004

Delta R.T. -0.01 min

Lab File: BF096644.D

Acq: 11 Jul 2017 15:08

Instrument :

BNA_F

ClientSampleId :

NAA-SANDMSD

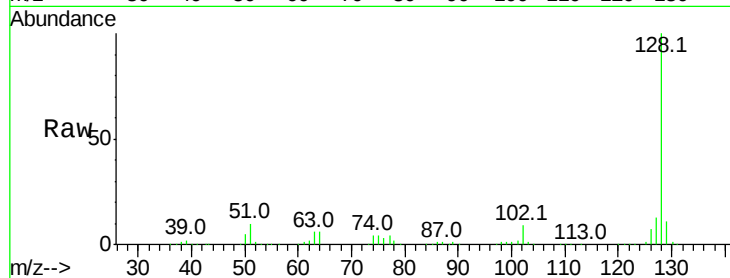
Tot Ion:128 Resp: 999240

Ion Ratio Lower Upper

128 100

129 11.4 9.0 13.6

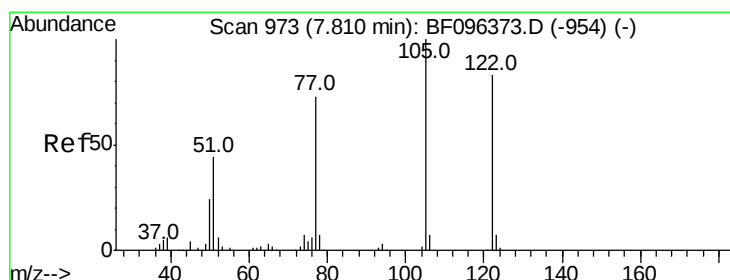
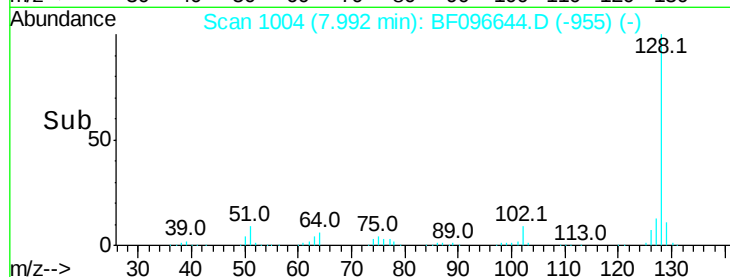
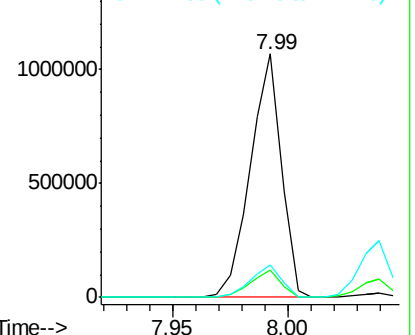
127 13.4 10.8 16.2



Abundance Ion 128.00 (127.70 to 128.70): E

Ion 129.00 (128.70 to 129.70): E

Ion 127.00 (126.70 to 127.70): E



#32

Benzoic acid

Concen: 3.482 ng

RT: 7.71 min Scan# 956

Delta R.T. -0.08 min

Lab File: BF096644.D

Acq: 11 Jul 2017 15:08

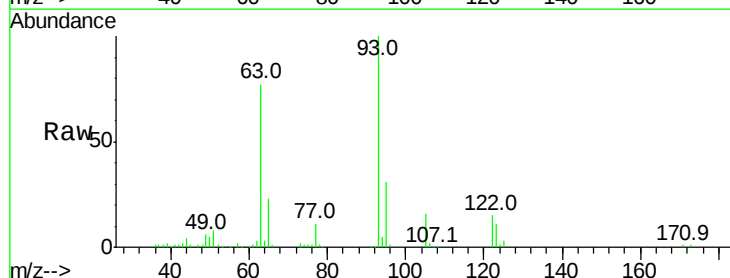
Tgt Ion:122 Resp: 20250

Ion Ratio Lower Upper

122 100

105 109.9 103.3 143.3

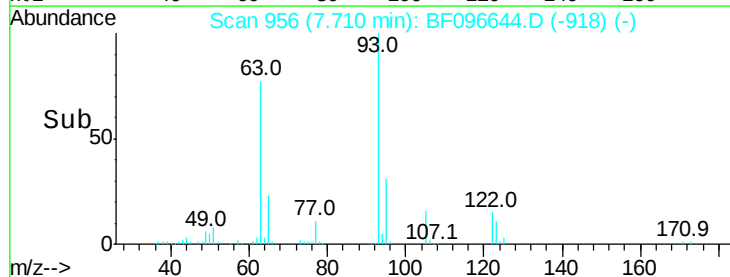
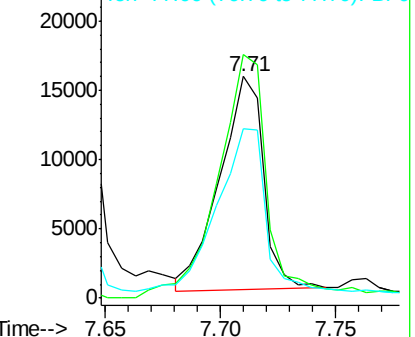
77 76.7 73.7 113.7

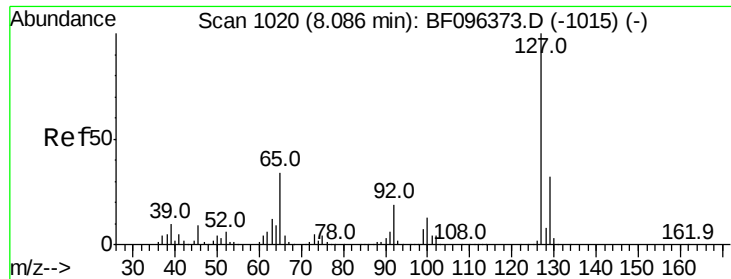


Abundance Ion 122.00 (121.70 to 122.70): E

Ion 105.00 (104.70 to 105.70): E

Ion 77.00 (76.70 to 77.70): BF0

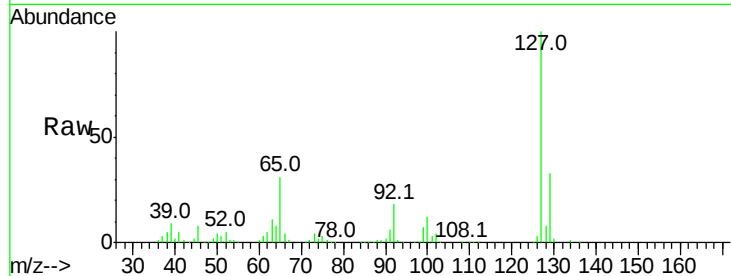




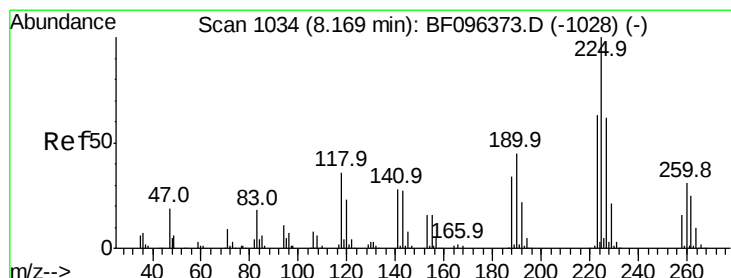
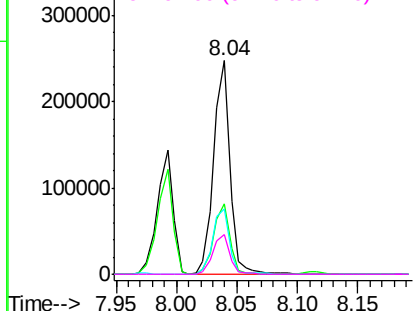
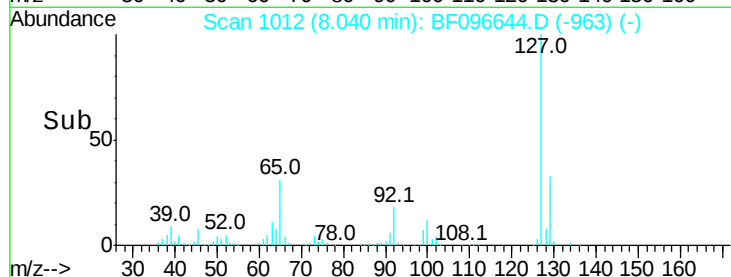
#33
4-Chloroaniline
Concen: 26.667 ng
RT: 8.04 min Scan# 1012
Delta R.T. -0.01 min
Lab File: BF096644.D
Acq: 11 Jul 2017 15:08

Instrument :
BNA_F
ClientSampleId :
NAA-SANDMSD

Tot Ion:	127	Resp:	230115
Ion	Ratio	Lower	Upper
127	100		
129	33.1	26.2	39.2
65	30.6	27.8	41.8
92	18.4	16.8	25.2

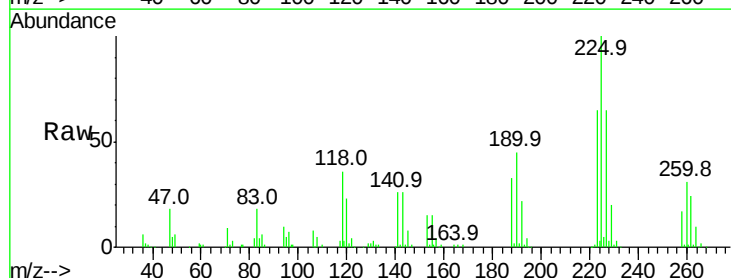


Abundance Ion 127.00 (126.70 to 127.70): E
Ion 129.00 (128.70 to 129.70): E
Ion 65.00 (64.70 to 65.70): BF0
Ion 92.00 (91.70 to 92.70): BF0

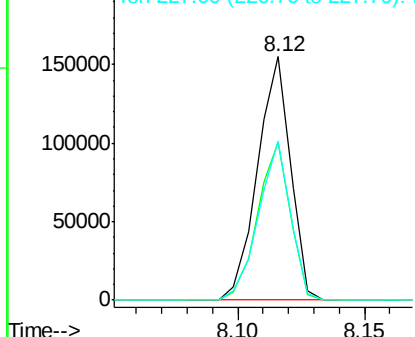
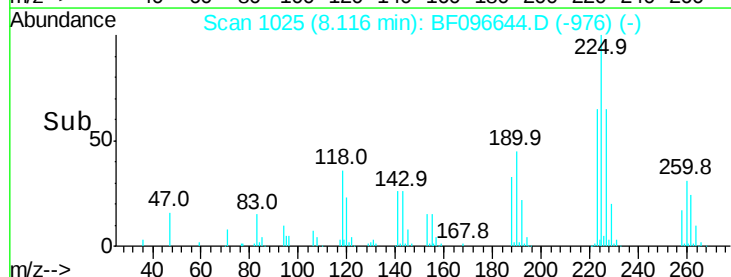


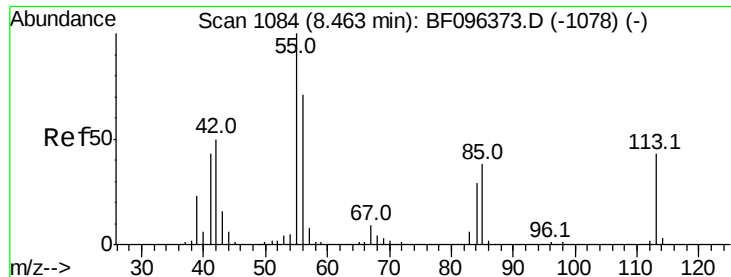
#34
Hexachlorobutadiene
Concen: 48.804 ng
RT: 8.12 min Scan# 1025
Delta R.T. -0.01 min
Lab File: BF096644.D
Acq: 11 Jul 2017 15:08

Tgt Ion:	225	Resp:	141057
Ion	Ratio	Lower	Upper
225	100		
223	64.6	48.8	73.2
227	65.3	51.1	76.7



Abundance Ion 225.00 (224.70 to 225.70): E
Ion 223.00 (222.70 to 223.70): E
Ion 227.00 (226.70 to 227.70): E





#35

Caprolactam

Concen: 27.284 ng

RT: 8.42 min Scan# 1076

Delta R.T. -0.02 min

Lab File: BF096644.D

Acq: 11 Jul 2017 15:08

Instrument :

BNA_F

ClientSampleId :

NAA-SANDMSD

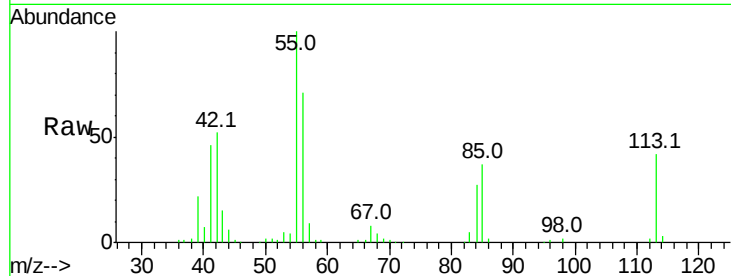
Tot Ion:113 Resp: 56204

Ion Ratio Lower Upper

113 100

55 239.9 150.2 190.2#

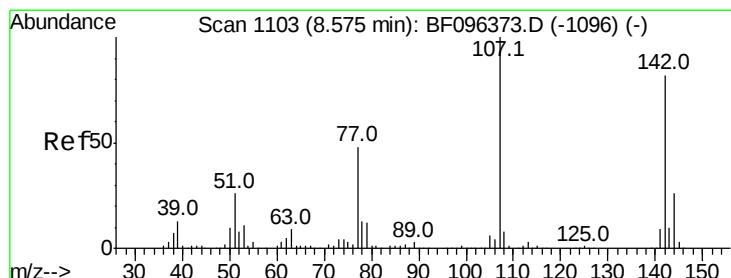
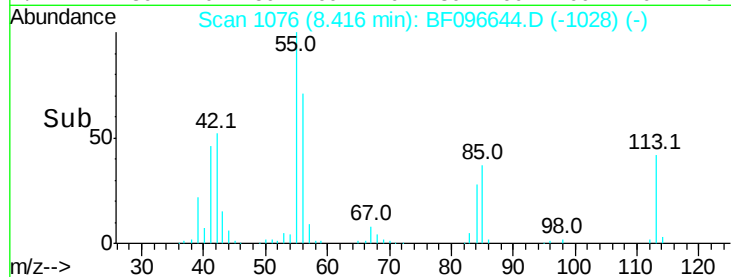
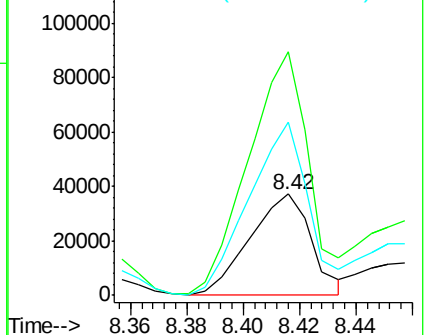
56 170.6 107.8 147.8#



Abundance Ion 113.00 (112.70 to 113.70): E

Ion 55.00 (54.70 to 55.70): BF0

Ion 56.00 (55.70 to 56.70): BF0



#36

4-Chloro-3-methylphenol

Concen: 47.075 ng

RT: 8.53 min Scan# 1096

Delta R.T. -0.01 min

Lab File: BF096644.D

Acq: 11 Jul 2017 15:08

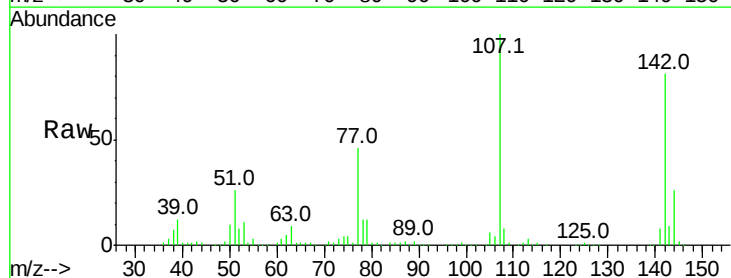
Tgt Ion:107 Resp: 311165

Ion Ratio Lower Upper

107 100

144 25.8 24.2 36.4

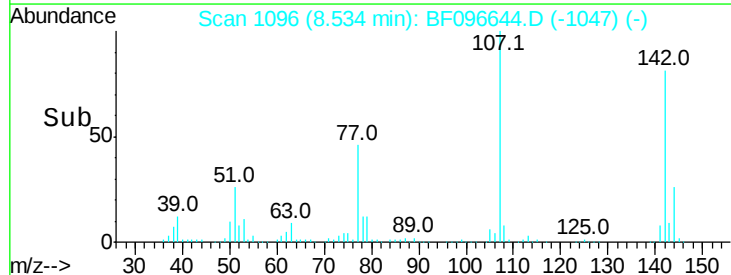
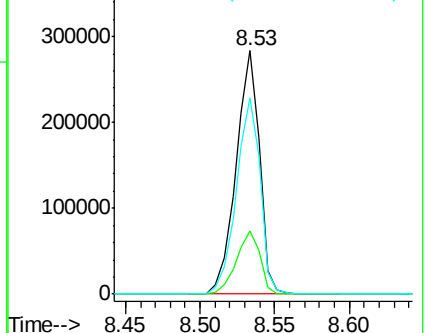
142 80.8 73.4 110.0

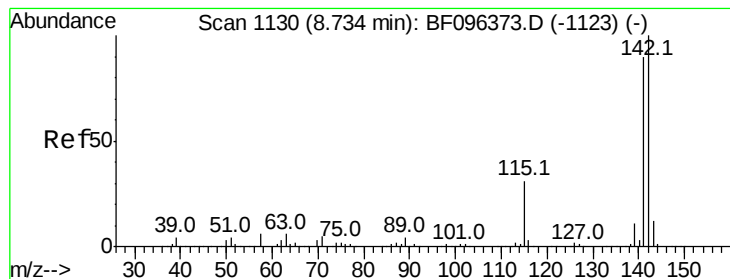


Abundance Ion 107.00 (106.70 to 107.70): E

Ion 144.00 (143.70 to 144.70): E

Ion 142.00 (141.70 to 142.70): E

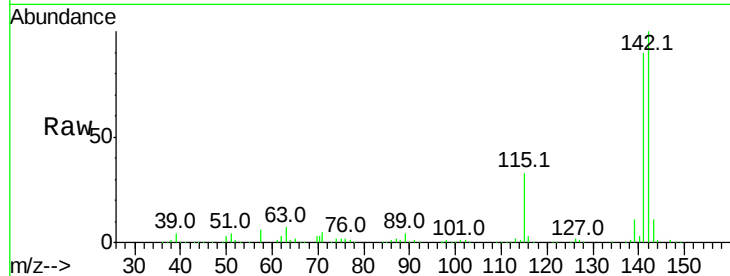




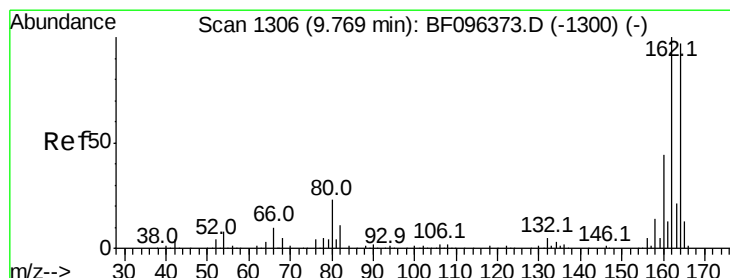
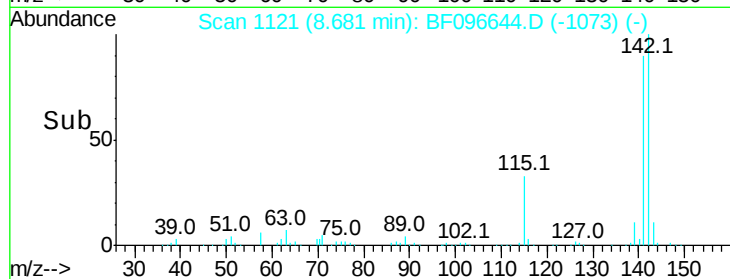
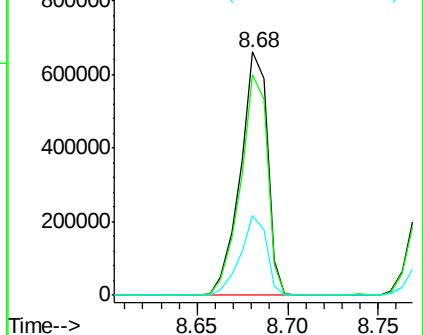
#37
 2-Methylnaphthalene
 Concen: 51.918 ng
 RT: 8.68 min Scan# 1121
 Delta R.T. -0.02 min
 Lab File: BF096644.D
 Acq: 11 Jul 2017 15:08

Instrument :
 BNA_F
 ClientSampleId :
 NAA-SANDMSD

Tot Ion	Ratio	Lower	Upper
142	100		
141	90.4	71.3	106.9
115	32.7	27.1	40.7

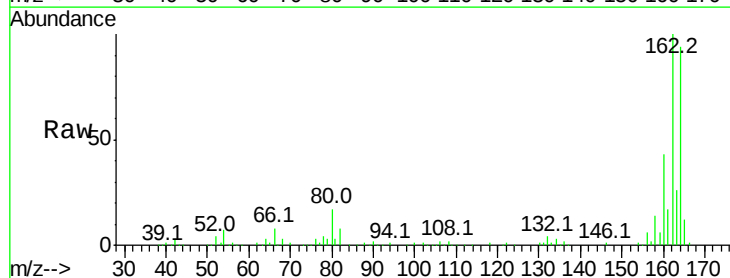


Abundance Ion 142.00 (141.70 to 142.70): E
 Ion 141.00 (140.70 to 141.70): E
 Ion 115.00 (114.70 to 115.70): E

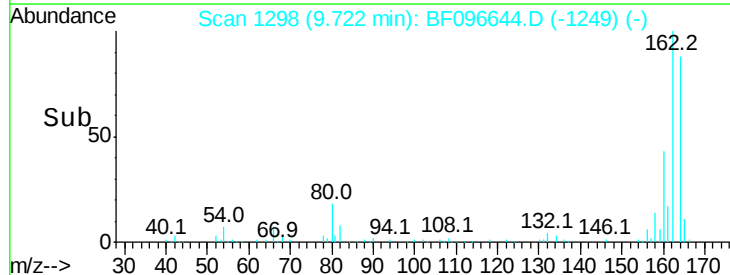
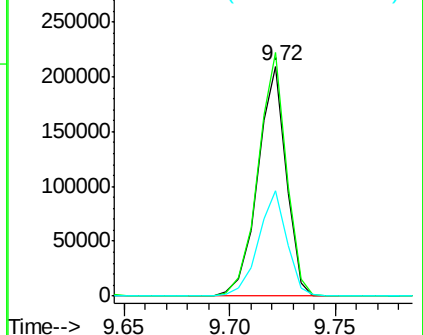


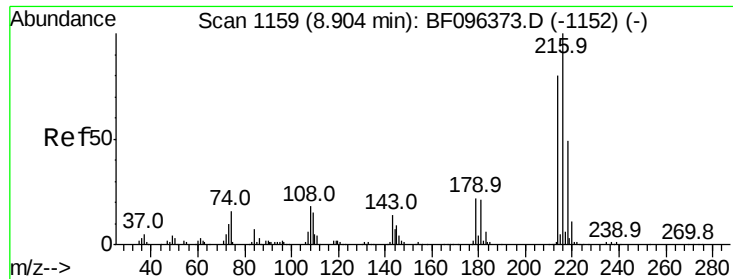
#38
 Acenaphthene-d10
 Concen: 20.000 ng
 RT: 9.72 min Scan# 1298
 Delta R.T. -0.01 min
 Lab File: BF096644.D
 Acq: 11 Jul 2017 15:08

Tgt Ion	Ratio	Lower	Upper
164	100		
162	106.1	82.6	123.8
160	45.8	36.2	54.2



Abundance Ion 164.00 (163.70 to 164.70): E
 Ion 162.00 (161.70 to 162.70): E
 Ion 160.00 (159.70 to 160.70): E

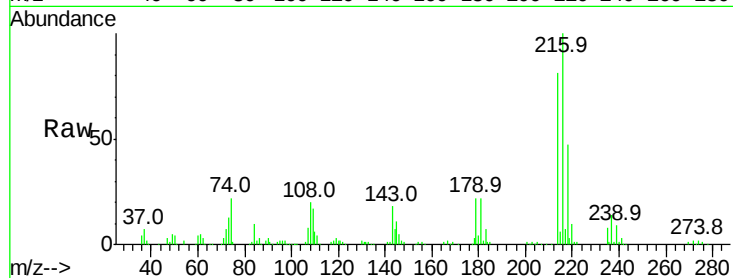




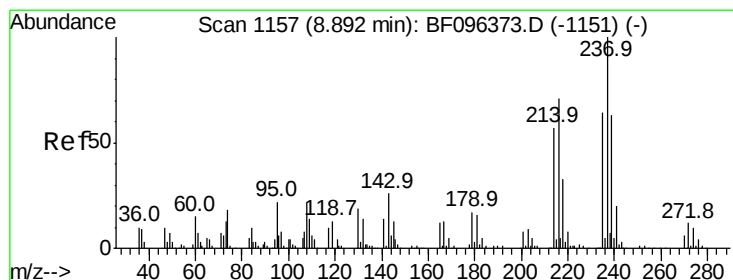
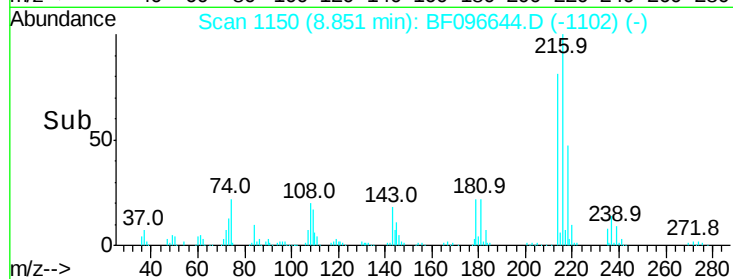
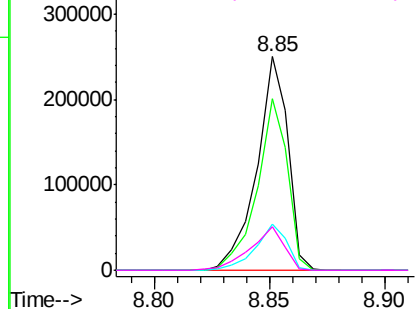
#39
 1,2,4,5-Tetrachlorobenzene
 Concen: 46.265 ng
 RT: 8.85 min Scan# 1150
 Delta R.T. -0.02 min
 Lab File: BF096644.D
 Acq: 11 Jul 2017 15:08

Instrument :
 BNA_F
 ClientSampleId :
 NAA-SANDMSD

Tot Ion:	216	Resp:	234925
Ion	Ratio	Lower	Upper
216	100		
214	78.6	63.4	95.2
179	21.7	17.9	26.9
108	22.4	16.5	24.7

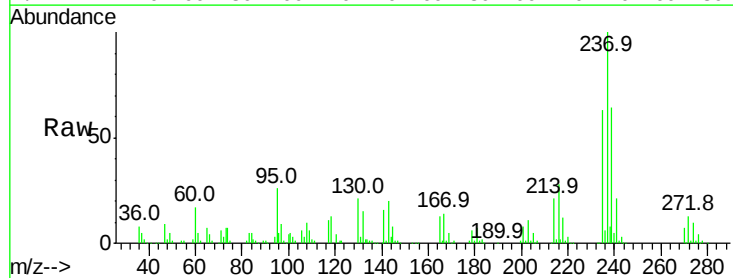


Abundance Ion 216.00 (215.70 to 216.70): E
 Ion 214.00 (213.70 to 214.70): E
 Ion 179.00 (178.70 to 179.70): E
 Ion 108.00 (107.70 to 108.70): E

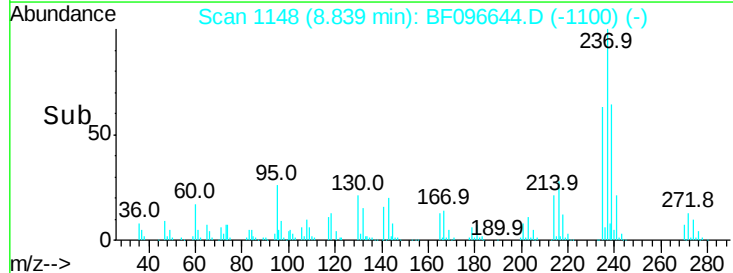
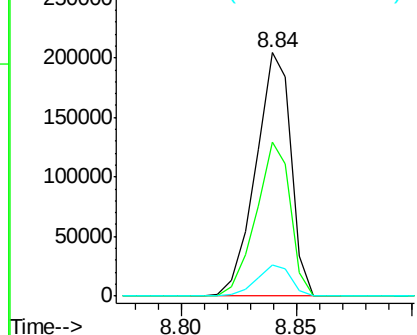


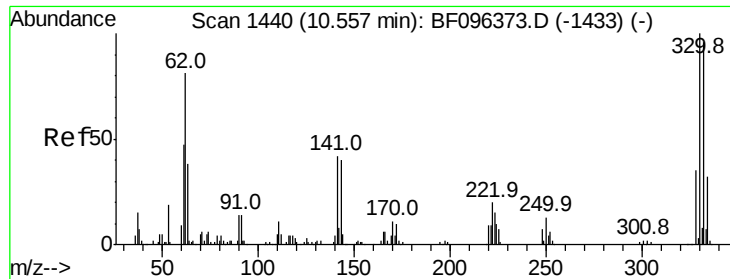
#40
 Hexachlorocyclopentadiene
 Concen: 87.822 ng
 RT: 8.84 min Scan# 1148
 Delta R.T. -0.02 min
 Lab File: BF096644.D
 Acq: 11 Jul 2017 15:08

Tgt Ion:	237	Resp:	216830
Ion	Ratio	Lower	Upper
237	100		
235	63.5	42.6	82.6
272	12.7	0.0	31.9



Abundance Ion 236.80 (236.50 to 237.50): E
 Ion 234.90 (234.60 to 235.60): E
 Ion 271.75 (271.45 to 272.45): E

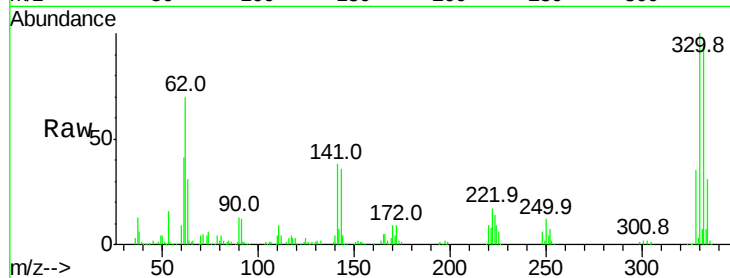




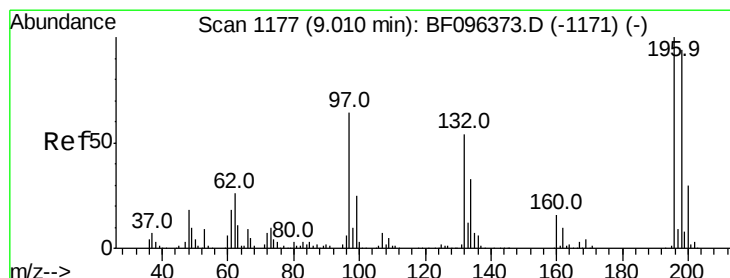
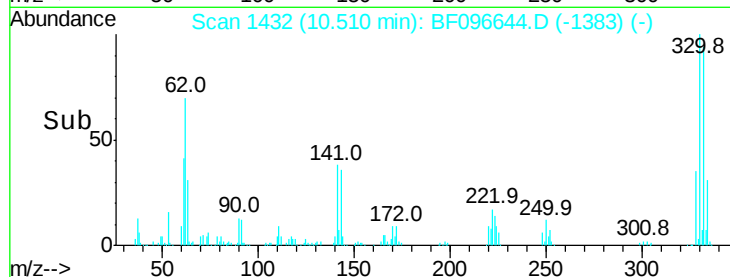
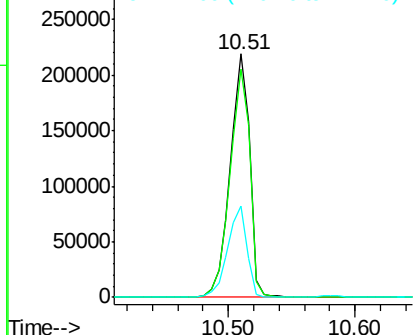
#41
 2,4,6-Tribromophenol
 Concen: 151.622 ng
 RT: 10.51 min Scan# 1432
 Delta R.T. -0.01 min
 Lab File: BF096644.D
 Acq: 11 Jul 2017 15:08

Instrument :
 BNA_F
 ClientSampleId :
 NAA-SANDMSD

Tot Ion:330 Resp: 231614
 Ion Ratio Lower Upper
 330 100
 332 95.7 76.6 115.0
 141 37.3 31.4 47.2

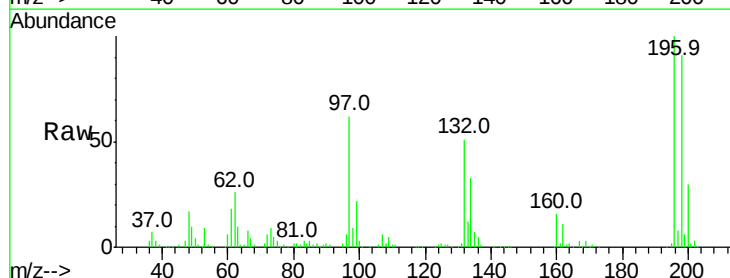


Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

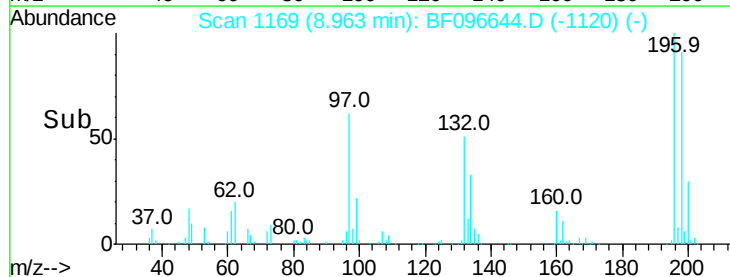
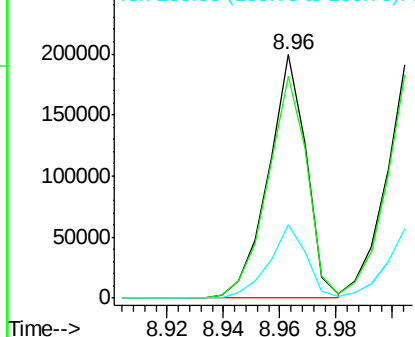


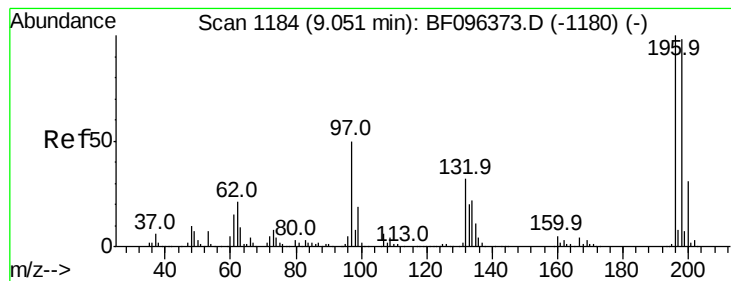
#42
 2,4,6-Trichlorophenol
 Concen: 46.378 ng
 RT: 8.96 min Scan# 1169
 Delta R.T. -0.01 min
 Lab File: BF096644.D
 Acq: 11 Jul 2017 15:08

Tgt Ion:196 Resp: 186297
 Ion Ratio Lower Upper
 196 100
 198 91.3 74.2 111.4
 200 30.0 24.0 36.0



Abundance Ion 196.00 (195.70 to 196.70): E
 Ion 198.00 (197.70 to 198.70): E
 Ion 200.00 (199.70 to 200.70): E

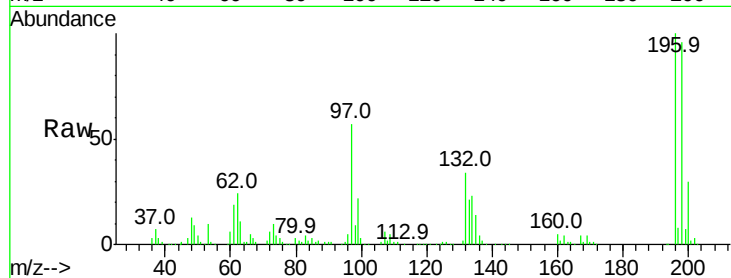




#43
 2,4,5-Trichlorophenol
 Concen: 49.283 ng
 RT: 9.00 min Scan# 1176
 Delta R.T. -0.01 min
 Lab File: BF096644.D
 Acq: 11 Jul 2017 15:08

Instrument :
 BNA_F
 ClientSampleId :
 NAA-SANDMSD

Tot Ion:	196	Resp:	195738
Ion	Ratio	Lower	Upper
196	100		
198	95.7	75.7	113.5
97	57.0	47.7	71.5
132	34.4	28.0	42.0



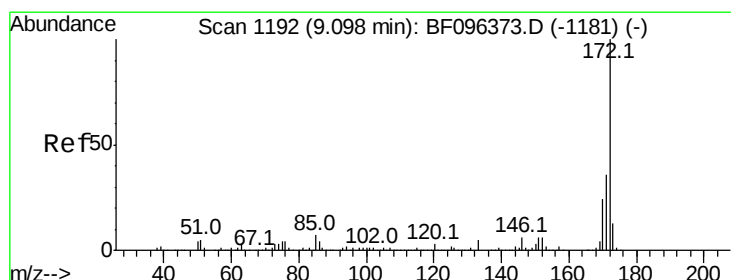
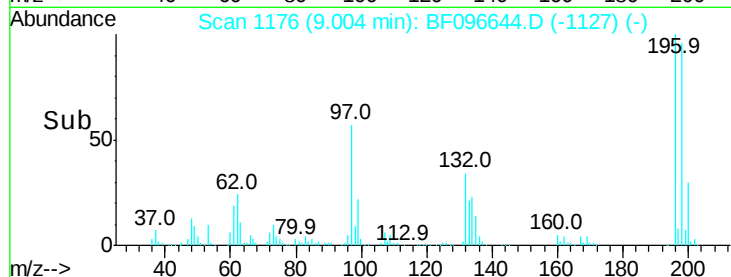
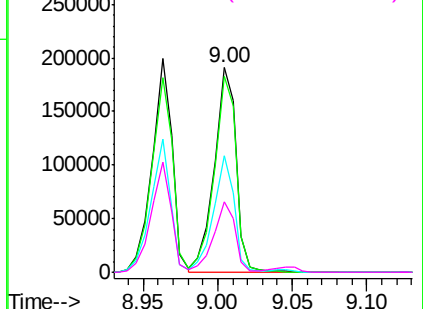
Abundance

Ion 196.00 (195.70 to 196.70): E

Ion 198.00 (197.70 to 198.70): E

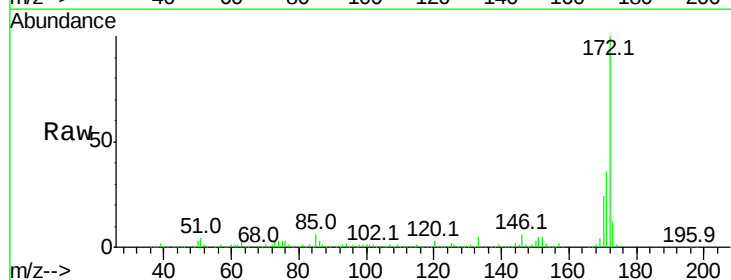
Ion 97.00 (96.70 to 97.70): BF0

Ion 132.00 (131.70 to 132.70): E



#44
 2-Fluorobiphenyl
 Concen: 100.307 ng
 RT: 9.05 min Scan# 1184
 Delta R.T. -0.01 min
 Lab File: BF096644.D
 Acq: 11 Jul 2017 15:08

Tgt Ion:	172	Resp:	1147293
Ion	Ratio	Lower	Upper
172	100		
171	35.9	29.6	44.4
170	23.9	19.8	29.8

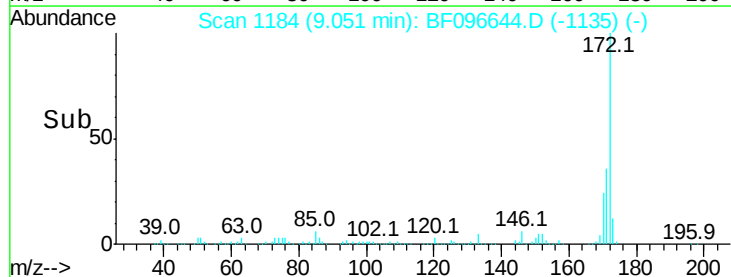
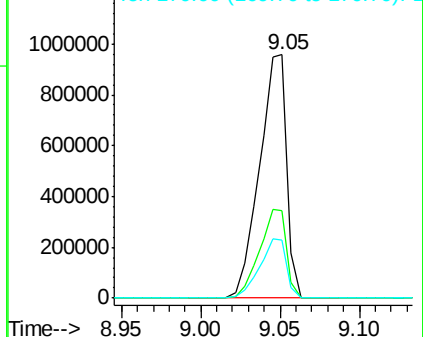


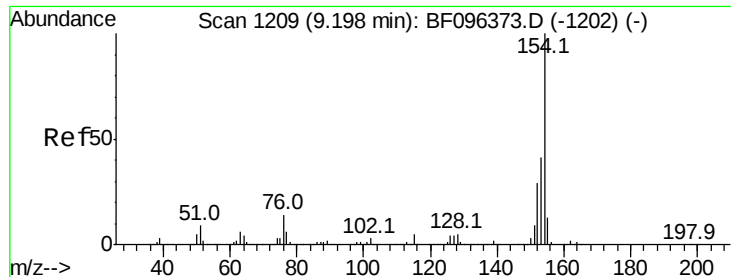
Abundance

Ion 172.00 (171.70 to 172.70): E

Ion 171.00 (170.70 to 171.70): E

Ion 170.00 (169.70 to 170.70): E

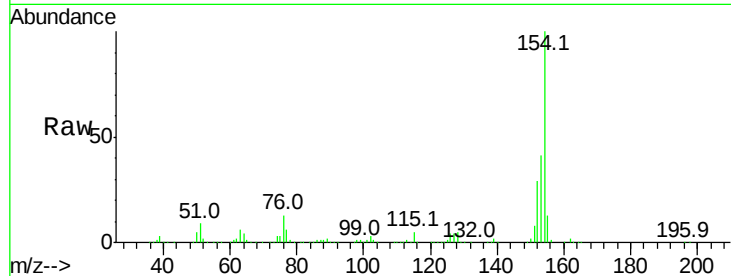




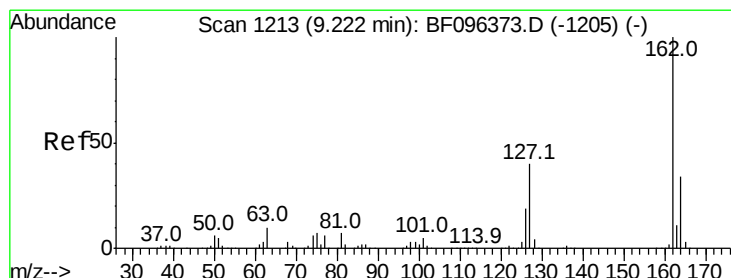
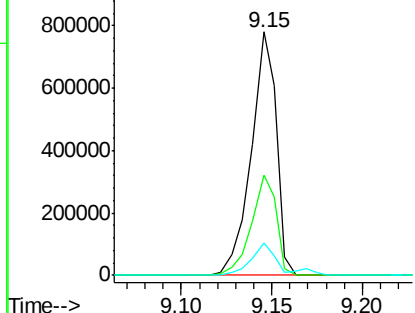
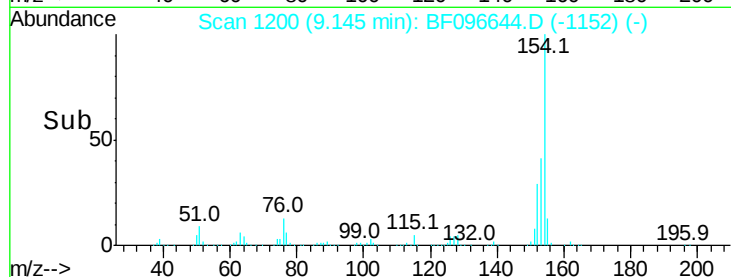
#45
 1,1'-Biphenyl
 Concen: 44.799 ng
 RT: 9.15 min Scan# 1200
 Delta R.T. -0.02 min
 Lab File: BF096644.D
 Acq: 11 Jul 2017 15:08

Instrument :
 BNA_F
 ClientSampleId :
 NAA-SANDMSD

Tot Ion	Ratio	Lower	Upper
154	100		
153	41.0	21.2	61.2
76	13.3	0.0	29.9

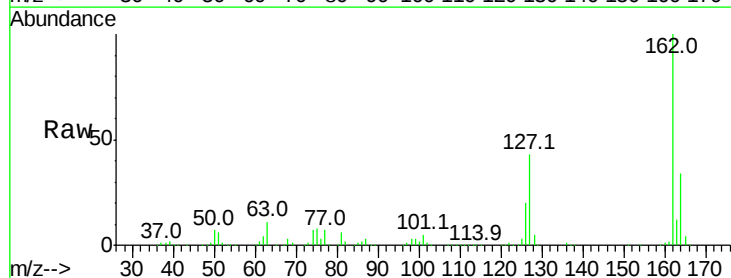


Abundance Ion 154.00 (153.70 to 154.70): E
 Ion 153.00 (152.70 to 153.70): E
 Ion 76.00 (75.70 to 76.70): BF0

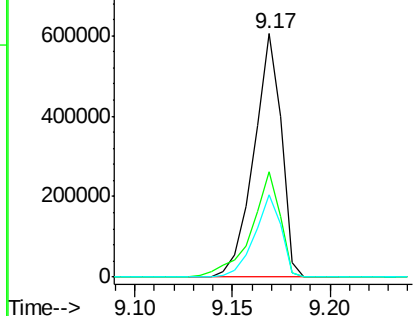
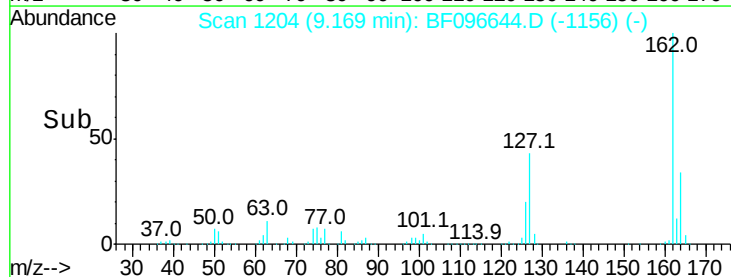


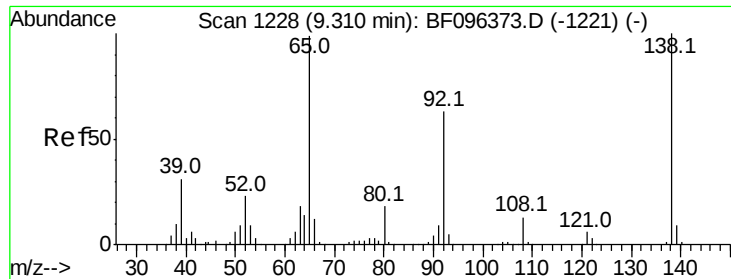
#46
 2-Chloronaphthalene
 Concen: 47.025 ng
 RT: 9.17 min Scan# 1204
 Delta R.T. -0.02 min
 Lab File: BF096644.D
 Acq: 11 Jul 2017 15:08

Tgt Ion	Ratio	Lower	Upper
162	100		
127	43.2	28.3	42.5#
164	33.6	27.0	40.4



Abundance Ion 162.00 (161.70 to 162.70): E
 Ion 127.00 (126.70 to 127.70): E
 Ion 164.00 (163.70 to 164.70): E

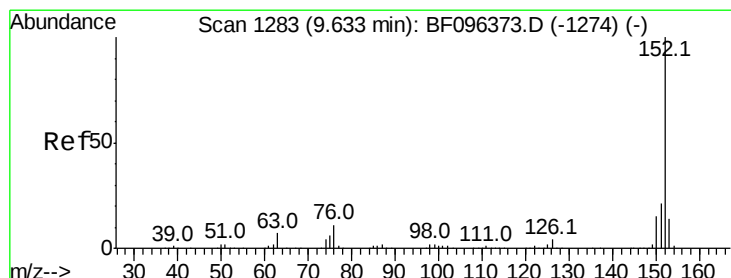
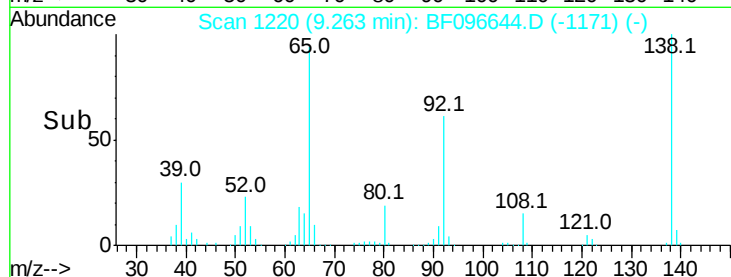
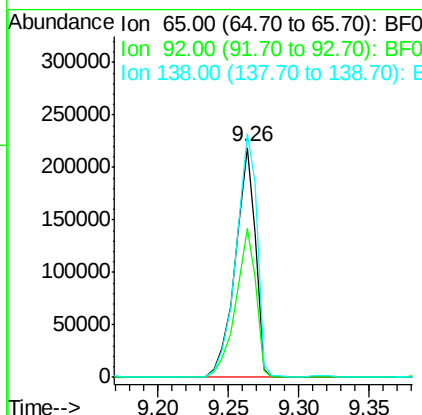
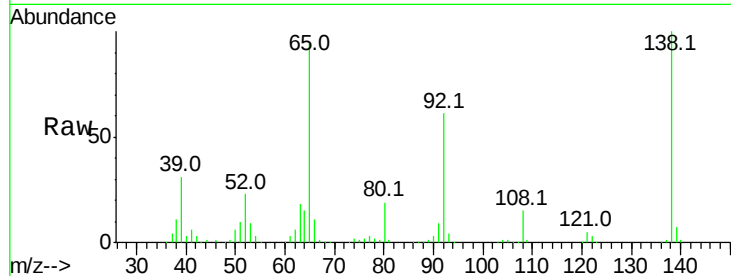




#47
 2-Nitroaniline
 Concen: 47.693 ng
 RT: 9.26 min Scan# 1220
 Delta R.T. -0.01 min
 Lab File: BF096644.D
 Acq: 11 Jul 2017 15:08

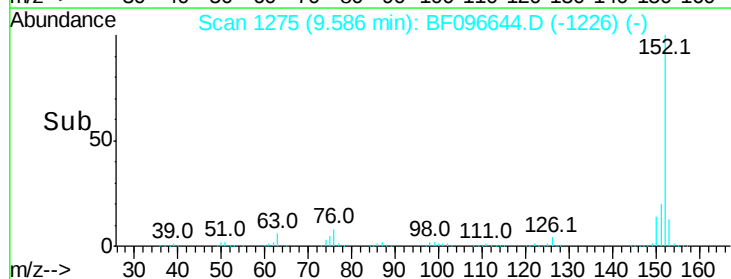
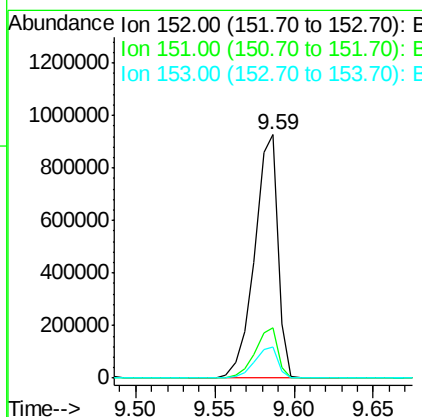
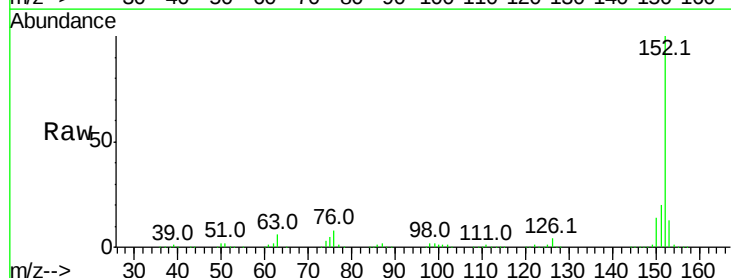
Instrument :
 BNA_F
 ClientSampleId :
 NAA-SANDMSD

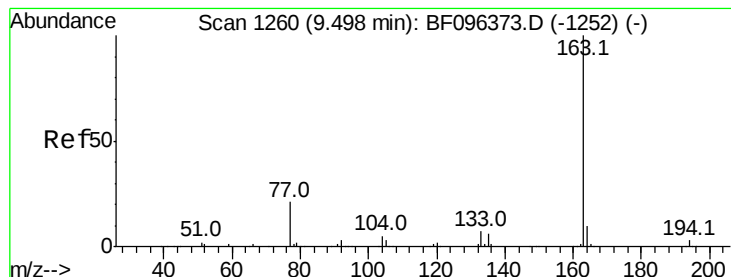
Tot Ion: 65 Resp: 216701
 Ion Ratio Lower Upper
 65 100
 92 64.8 53.9 80.9
 138 105.9 78.8 118.2



#48
 Acenaphthylene
 Concen: 48.030 ng
 RT: 9.59 min Scan# 1275
 Delta R.T. -0.01 min
 Lab File: BF096644.D
 Acq: 11 Jul 2017 15:08

Tgt Ion: 152 Resp: 950350
 Ion Ratio Lower Upper
 152 100
 151 20.4 16.8 25.2
 153 12.8 10.8 16.2





#49

Dimethylphthalate

Concen: 59.664 ng

RT: 9.46 min Scan# 1253

Delta R.T. -0.01 min

Lab File: BF096644.D

Acq: 11 Jul 2017 15:08

Instrument :

BNA_F

ClientSampleId :

NAA-SANDMSD

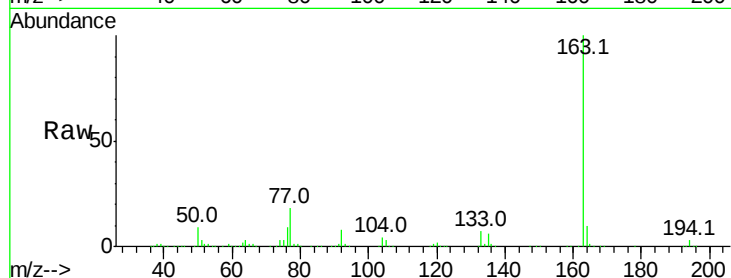
Tot Ion:163 Resp: 871028

Ion Ratio Lower Upper

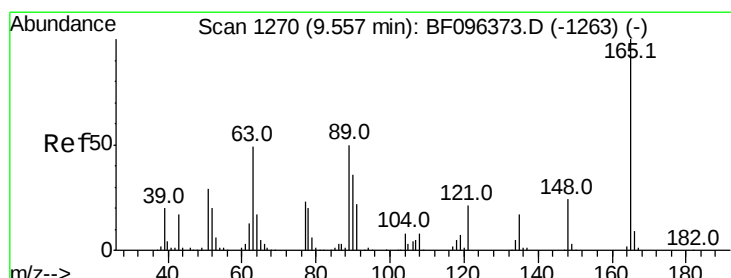
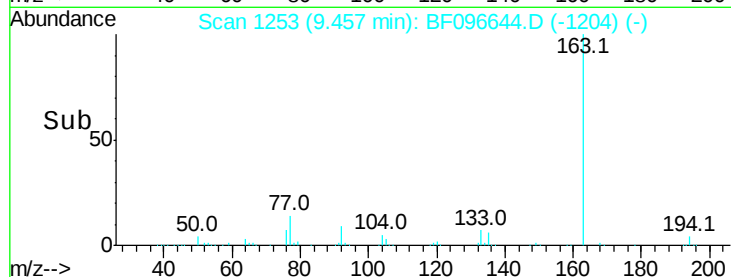
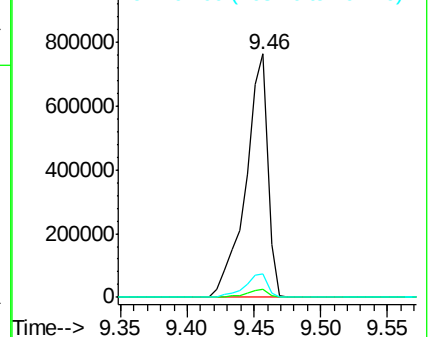
163 100

194 3.3 2.6 4.0

164 9.8 8.4 12.6



Abundance Ion 163.00 (162.70 to 163.70): E
Ion 194.00 (193.70 to 194.70): E
Ion 164.00 (163.70 to 164.70): E



#50

2,6-Dinitrotoluene

Concen: 49.389 ng

RT: 9.51 min Scan# 1262

Delta R.T. -0.01 min

Lab File: BF096644.D

Acq: 11 Jul 2017 15:08

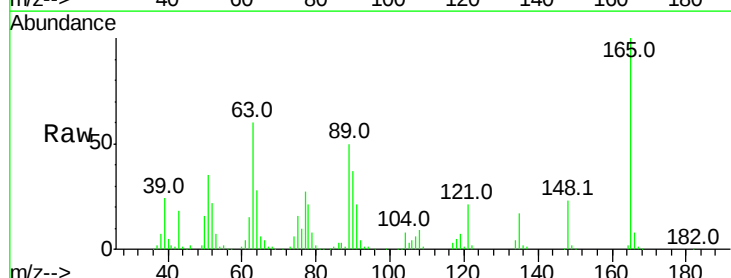
Tgt Ion:165 Resp: 159443

Ion Ratio Lower Upper

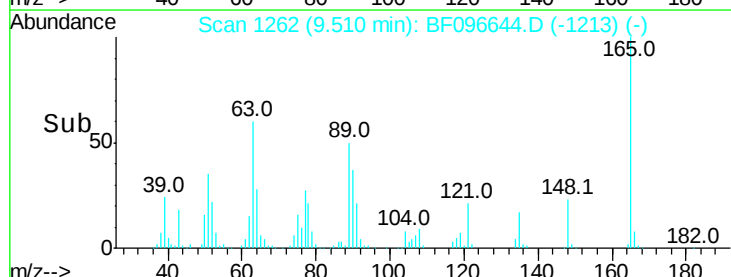
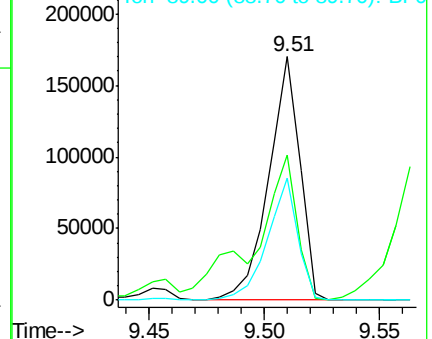
165 100

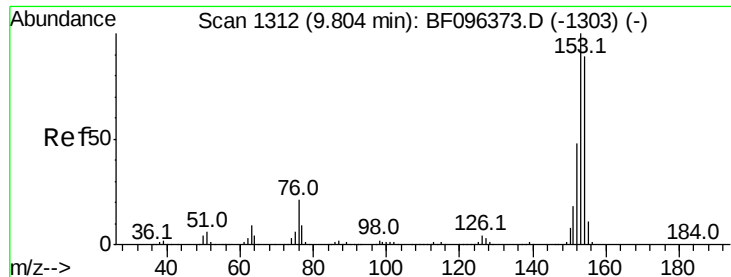
63 59.8 34.3 51.5#

89 49.9 37.1 55.7



Abundance Ion 165.00 (164.70 to 165.70): E
Ion 63.00 (62.70 to 63.70): BF0
Ion 89.00 (88.70 to 89.70): BF0





#51

Acenaphthene

Concen: 44.890 ng

RT: 9.76 min Scan# 1304

Delta R.T. -0.01 min

Lab File: BF096644.D

Acq: 11 Jul 2017 15:08

Instrument :

BNA_F

ClientSampleId :

NAA-SANDMSD

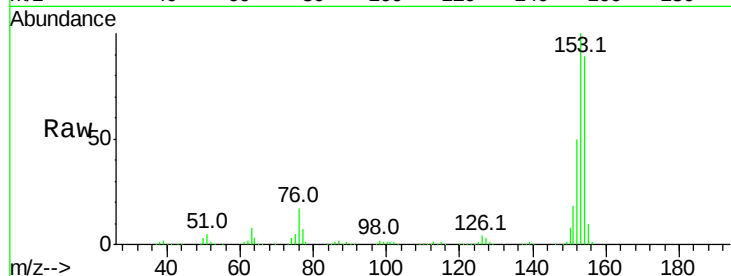
Tot Ion:154 Resp: 547503

Ion Ratio Lower Upper

154 100

153 112.6 90.5 135.7

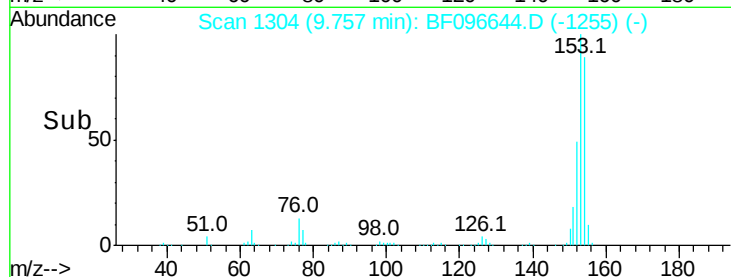
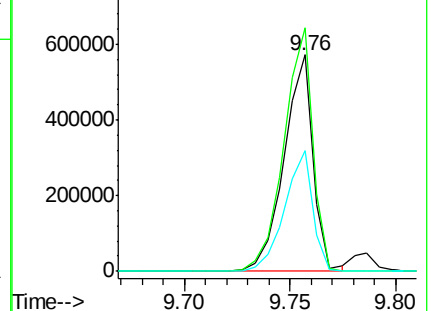
152 55.8 43.6 65.4



Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E



#52

3-Nitroaniline

Concen: 32.878 ng

RT: 9.67 min Scan# 1290

Delta R.T. -0.01 min

Lab File: BF096644.D

Acq: 11 Jul 2017 15:08

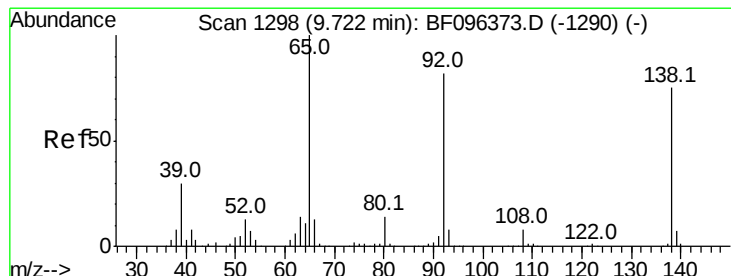
Tgt Ion:138 Resp: 132386

Ion Ratio Lower Upper

138 100

108 9.2 9.1 13.7

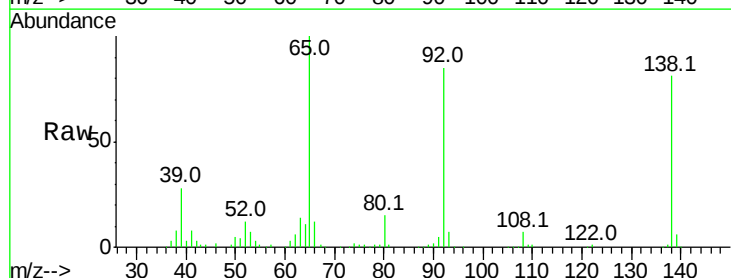
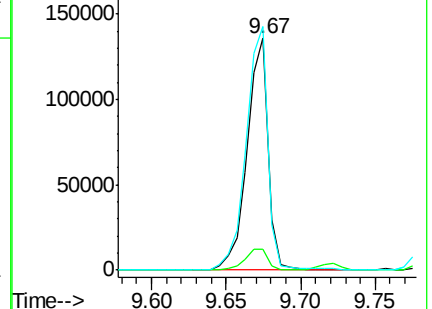
92 104.9 93.8 140.6

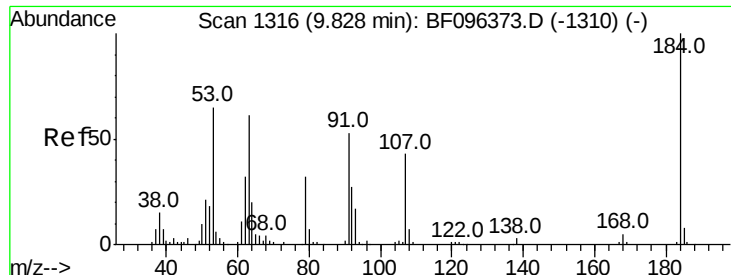


Abundance Ion 138.00 (137.70 to 138.70): E

Ion 108.00 (107.70 to 108.70): E

Ion 92.00 (91.70 to 92.70): BF0

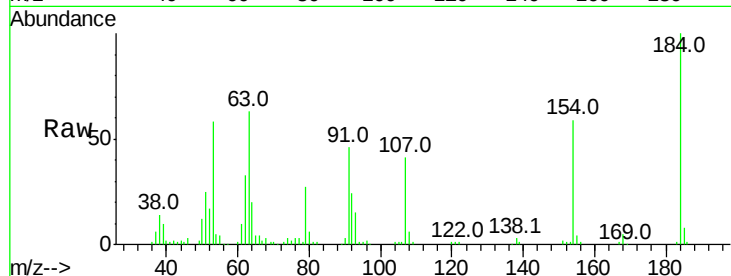




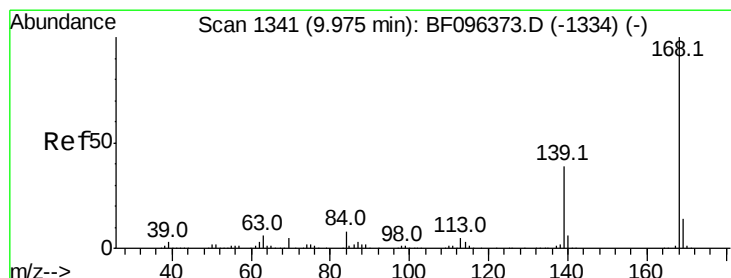
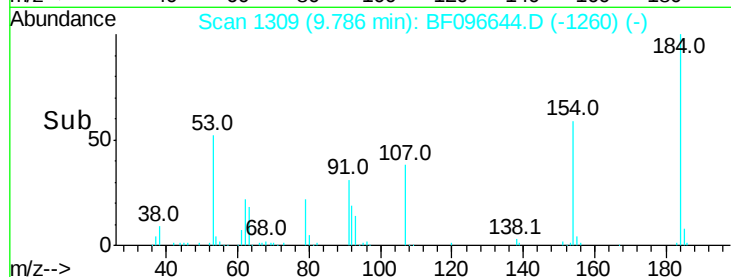
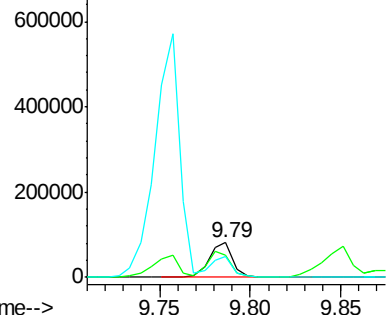
#53
2,4-Dinitrophenol
Concen: 43.787 ng
RT: 9.79 min Scan# 1309
Delta R.T. -0.01 min
Lab File: BF096644.D
Acq: 11 Jul 2017 15:08

Instrument :
BNA_F
ClientSampleId :
NAA-SANDMSD

Tot Ion:184 Resp: 75080
Ion Ratio Lower Upper
184 100
63 63.4 62.7 94.1
154 59.2 81.1 121.7#

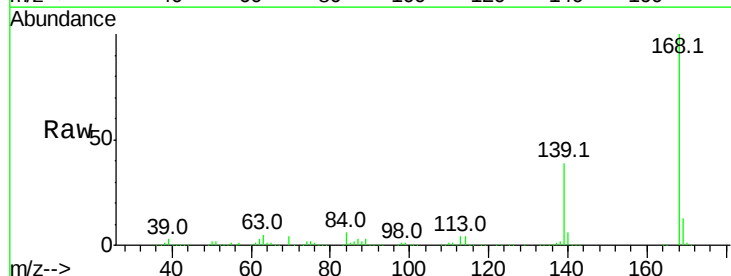


Abundance Ion 184.00 (183.70 to 184.70): E
Ion 63.00 (62.70 to 63.70): BF0
Ion 154.00 (153.70 to 154.70): E

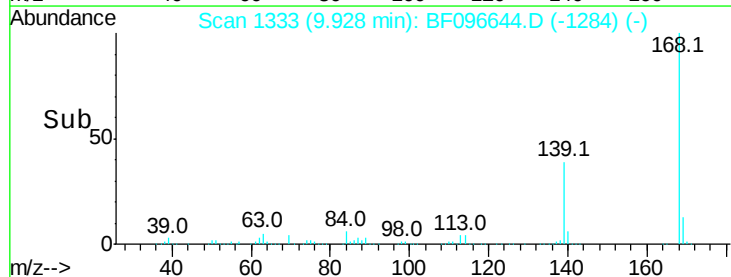
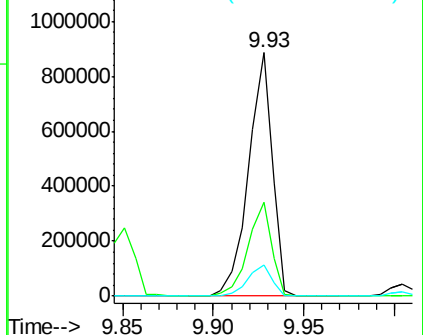


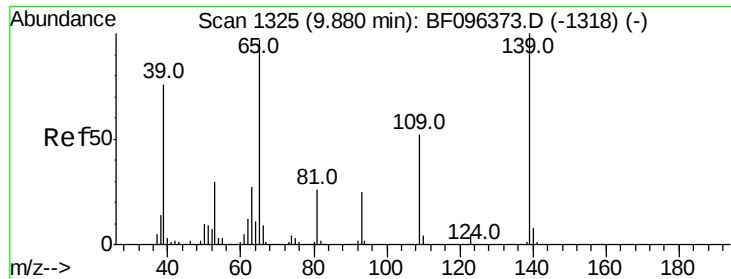
#54
Dibenzofuran
Concen: 50.114 ng
RT: 9.93 min Scan# 1333
Delta R.T. -0.01 min
Lab File: BF096644.D
Acq: 11 Jul 2017 15:08

Tgt Ion:168 Resp: 806978
Ion Ratio Lower Upper
168 100
139 38.6 30.6 45.8
169 13.0 10.8 16.2



Abundance Ion 168.00 (167.70 to 168.70): E
Ion 139.00 (138.70 to 139.70): E
Ion 169.00 (168.70 to 169.70): E

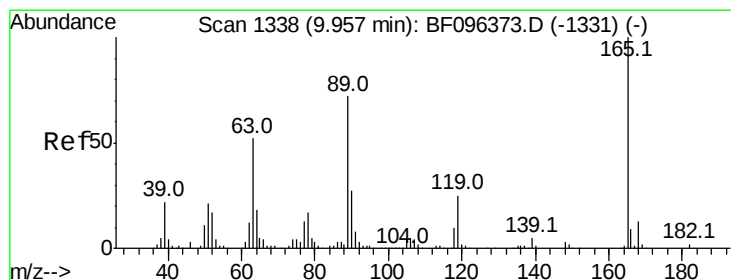
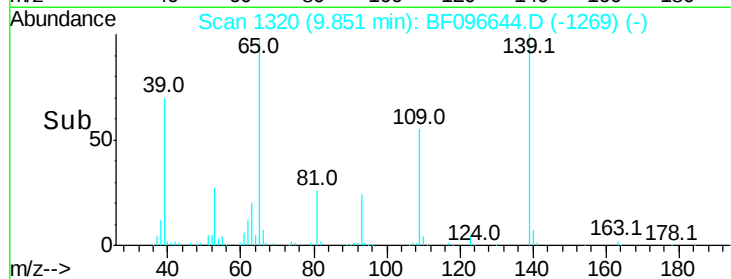
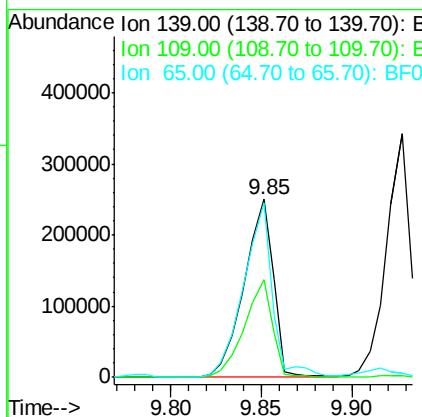
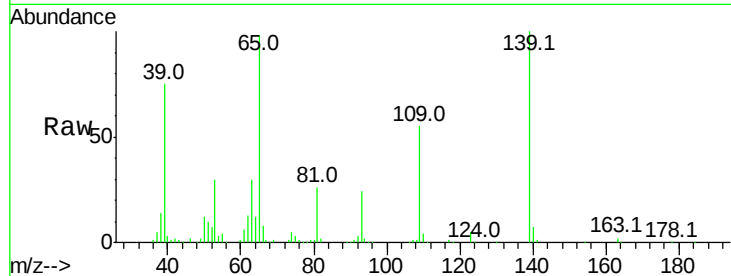




#55
4-Nitrophenol
Concen: 84.423 ng
RT: 9.85 min Scan# 1320
Delta R.T. 0.00 min
Lab File: BF096644.D
Acq: 11 Jul 2017 15:08

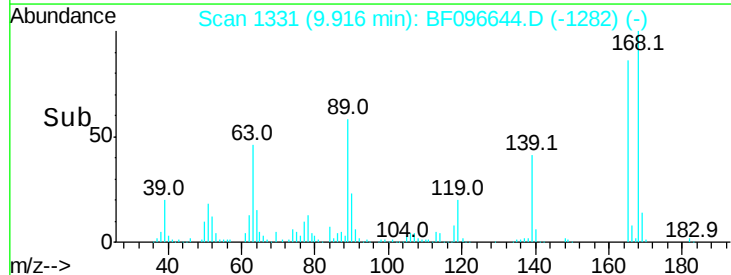
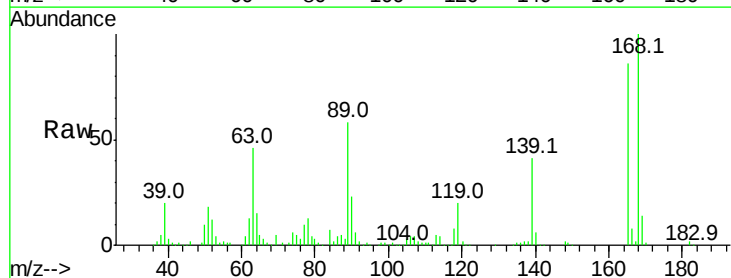
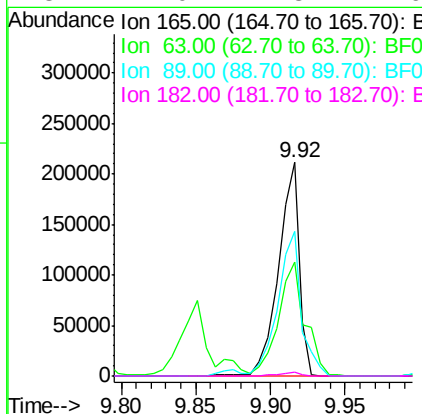
Instrument :
BNA_F
ClientSampleId :
NAA-SANDMSD

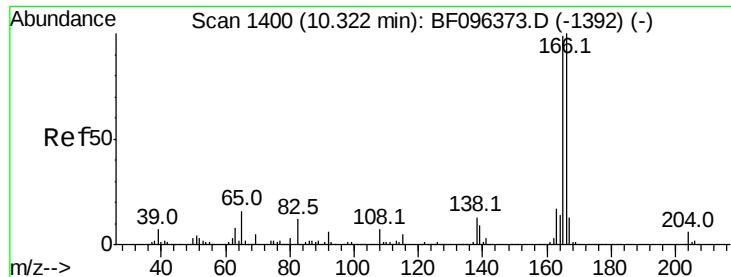
Tot Ion:139 Resp: 281753
Ion Ratio Lower Upper
139 100
109 55.2 34.1 74.1
65 98.3 31.4 71.4#



#56
2,4-Dinitrotoluene
Concen: 50.763 ng
RT: 9.92 min Scan# 1331
Delta R.T. -0.01 min
Lab File: BF096644.D
Acq: 11 Jul 2017 15:08

Tgt Ion:165 Resp: 207530
Ion Ratio Lower Upper
165 100
63 53.5 25.4 38.0#
89 67.9 46.4 69.6
182 2.0 1.8 2.6





#57

Fluorene

Concen: 52.243 ng

RT: 10.27 min Scan# 1391

Delta R.T. -0.01 min

Lab File: BF096644.D

Acq: 11 Jul 2017 15:08

Instrument :

BNA_F

ClientSampleId :

NAA-SANDMSD

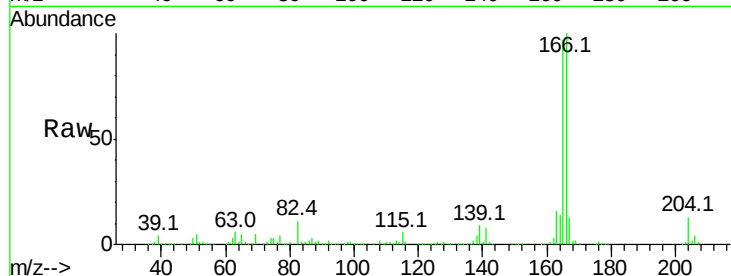
Tot Ion:166 Resp: 594151

Ion Ratio Lower Upper

166 100

165 97.4 78.8 118.2

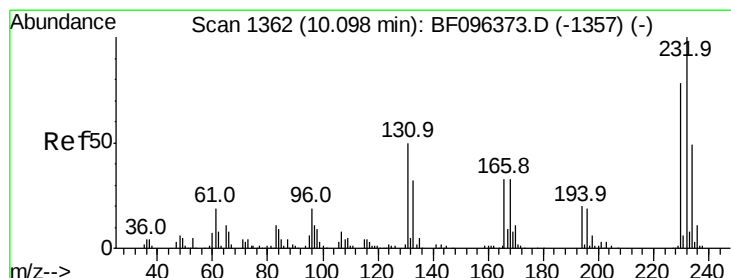
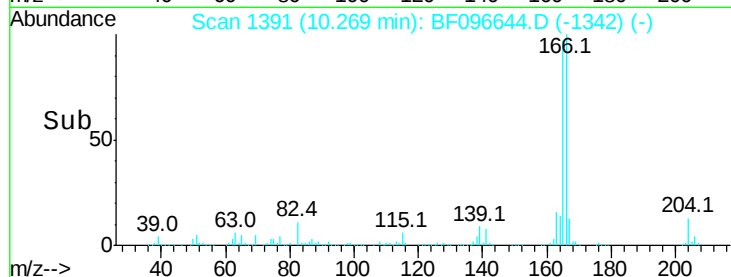
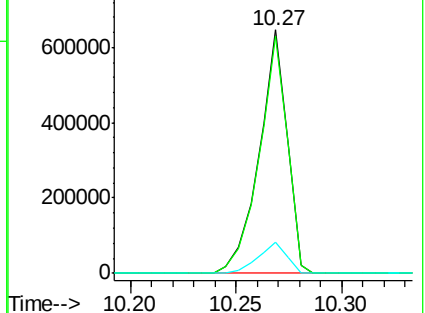
167 13.1 10.6 16.0



Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E



#58

2,3,4,6-Tetrachlorophenol

Concen: 54.825 ng

RT: 10.05 min Scan# 1354

Delta R.T. -0.01 min

Lab File: BF096644.D

Acq: 11 Jul 2017 15:08

Tgt Ion:232 Resp: 150654

Ion Ratio Lower Upper

232 100

131 54.0 44.8 67.2

130 2.5 2.3 3.5

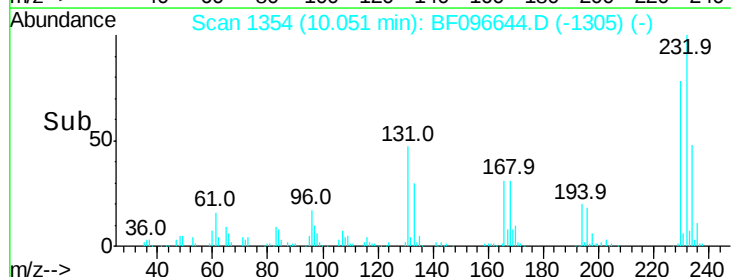
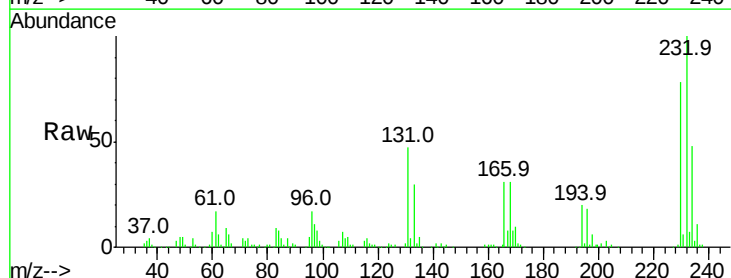
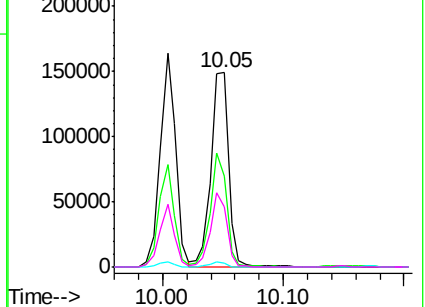
166 35.2 29.0 43.4

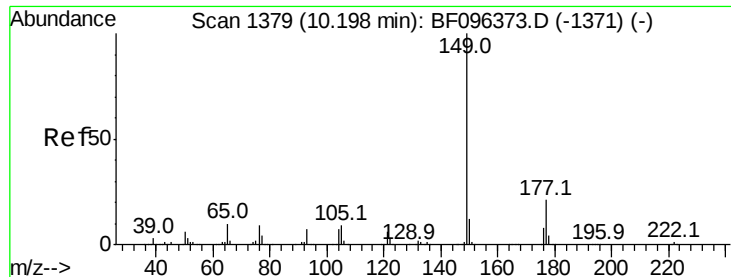
Abundance Ion 232.00 (231.70 to 232.70): E

Ion 131.00 (130.70 to 131.70): E

Ion 130.00 (129.70 to 130.70): E

Ion 166.00 (165.70 to 166.70): E

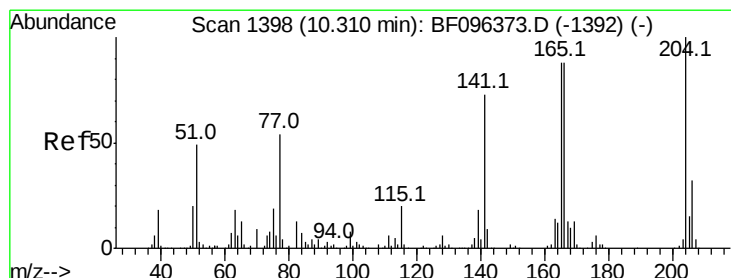
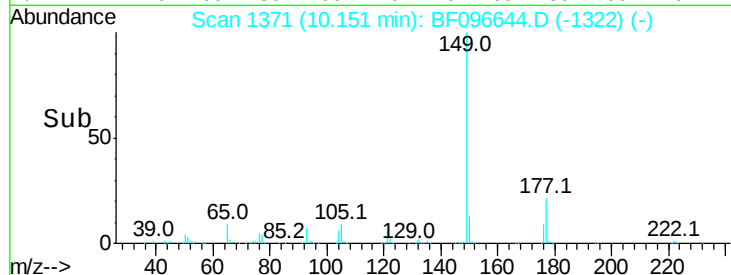
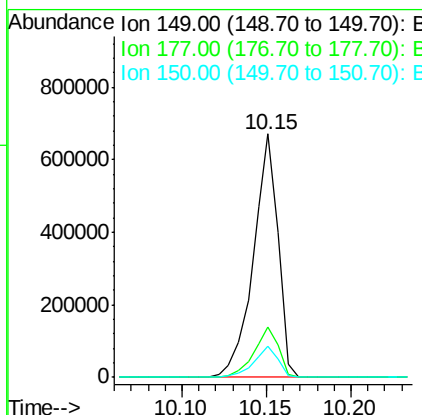
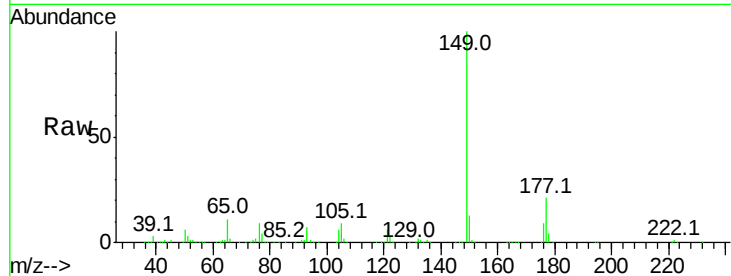




#59
Diethylphthalate
Concen: 49.305 ng
RT: 10.15 min Scan# 1371
Delta R.T. -0.01 min
Lab File: BF096644.D
Acq: 11 Jul 2017 15:08

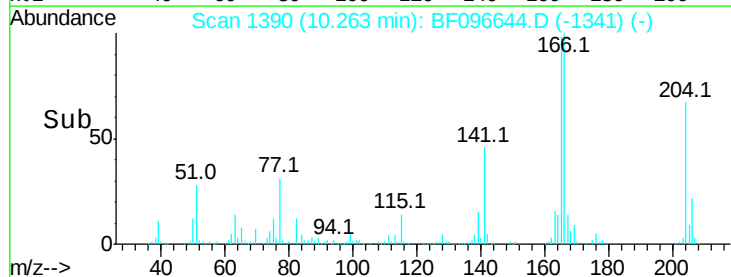
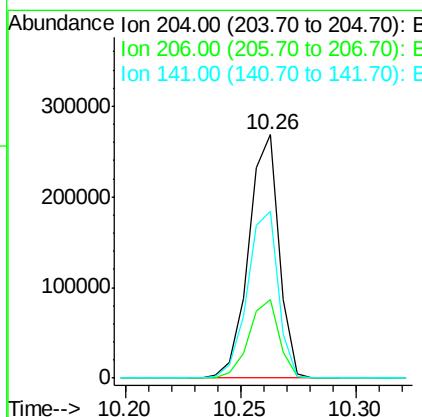
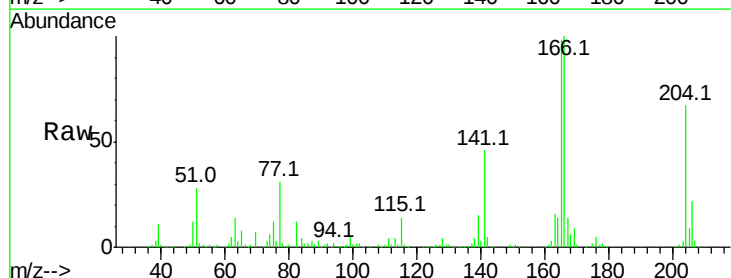
Instrument :
BNA_F
ClientSampleId :
NAA-SANDMSD

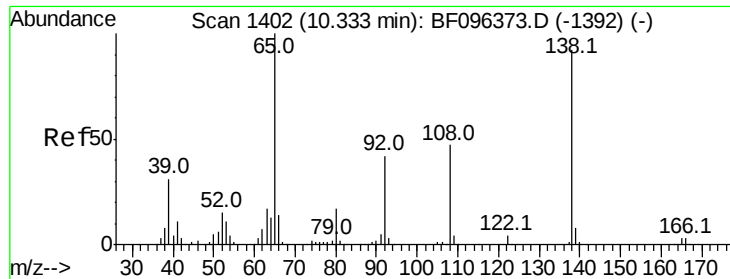
Tot Ion:149 Resp: 680358
Ion Ratio Lower Upper
149 100
177 20.6 16.7 25.1
150 12.5 10.2 15.2



#60
4-Chlorophenyl-phenylether
Concen: 49.987 ng
RT: 10.26 min Scan# 1390
Delta R.T. -0.01 min
Lab File: BF096644.D
Acq: 11 Jul 2017 15:08

Tgt Ion:204 Resp: 247344
Ion Ratio Lower Upper
204 100
206 32.5 26.2 39.2
141 68.8 60.8 91.2





#61

4-Nitroaniline

Concen: 51.033 ng

RT: 10.29 min Scan# 1395

Delta R.T. -0.01 min

Lab File: BF096644.D

Acq: 11 Jul 2017 15:08

Instrument :

BNA_F

ClientSampleId :

NAA-SANDMSD

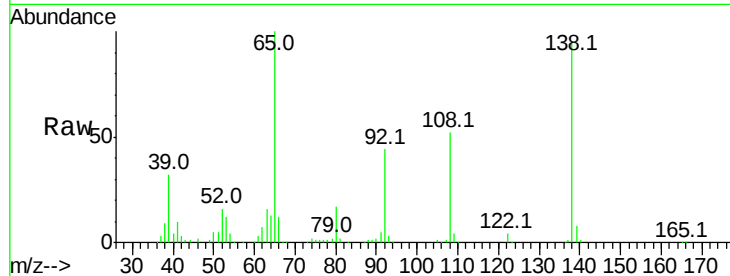
Tot Ion:138 Resp: 186846

Ion Ratio Lower Upper

138 100

92 46.1 21.8 61.8

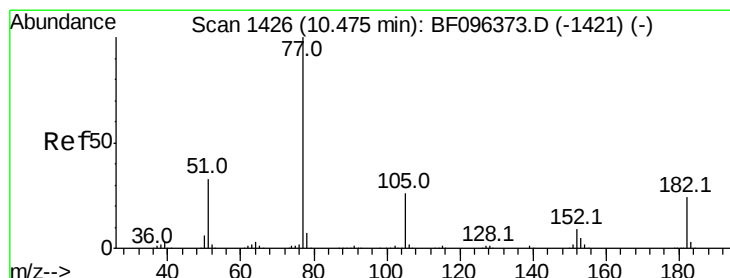
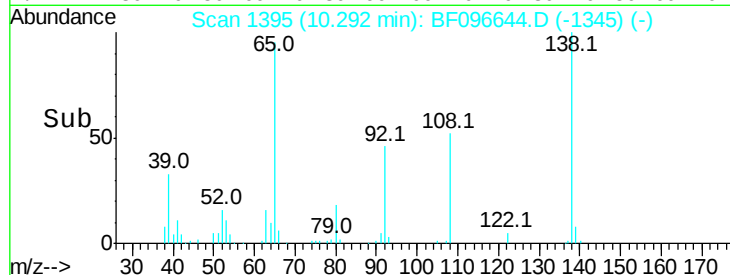
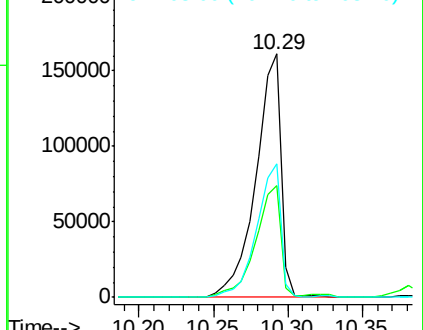
108 54.8 42.3 82.3



Abundance Ion 138.00 (137.70 to 138.70): E

Ion 92.00 (91.70 to 92.70): BF0

Ion 108.00 (107.70 to 108.70): E



#62

Azobenzene

Concen: 48.673 ng

RT: 10.42 min Scan# 1417

Delta R.T. -0.01 min

Lab File: BF096644.D

Acq: 11 Jul 2017 15:08

Tgt Ion: 77 Resp: 649438

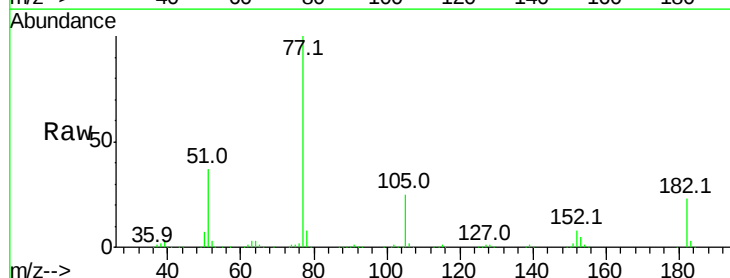
Ion Ratio Lower Upper

77 100

182 22.7 0.1 40.1

105 25.0 3.6 43.6

51 36.7 9.4 49.4

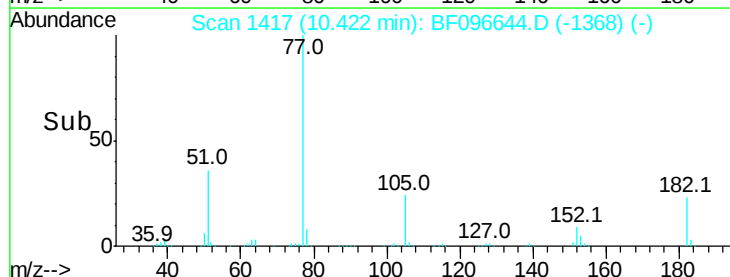
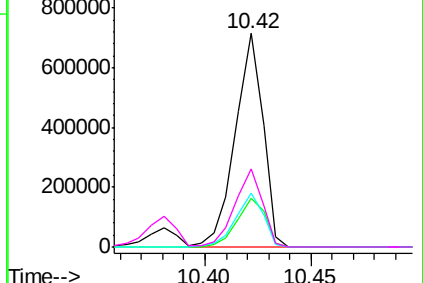


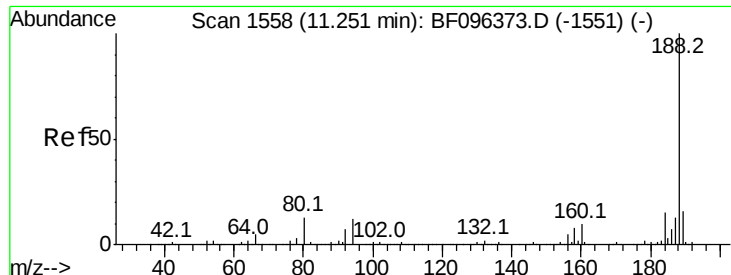
Abundance Ion 77.00 (76.70 to 77.70): BF0

Ion 182.00 (181.70 to 182.70): E

Ion 105.00 (104.70 to 105.70): E

Ion 51.00 (50.70 to 51.70): BF0





#63

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.20 min Scan# 1549

Delta R.T. -0.01 min

Lab File: BF096644.D

Acq: 11 Jul 2017 15:08

Instrument :

BNA_F

ClientSampleId :

NAA-SANDMSD

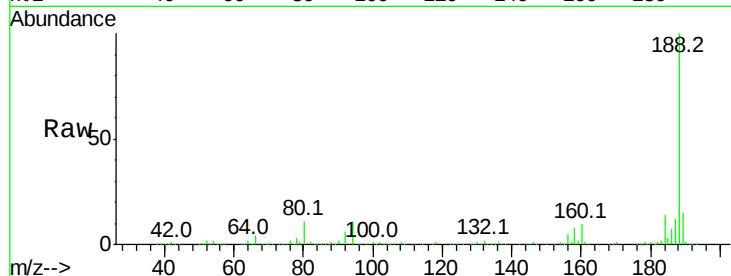
Tot Ion:188 Resp: 344109

Ion Ratio Lower Upper

188 100

94 11.0 9.4 14.2

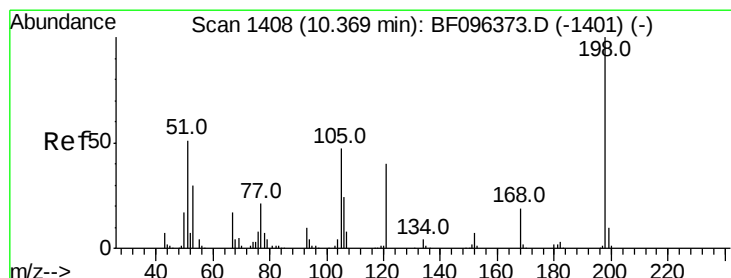
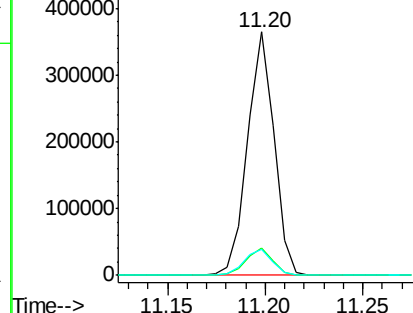
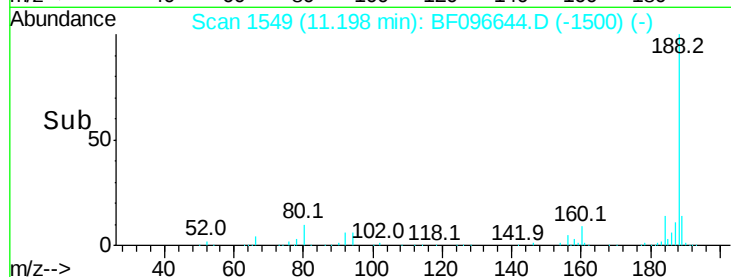
80 10.8 10.2 15.2



Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF0

Ion 80.00 (79.70 to 80.70): BF0



#64

4,6-Dinitro-2-methylphenol

Concen: 41.295 ng

RT: 10.33 min Scan# 1401

Delta R.T. -0.01 min

Lab File: BF096644.D

Acq: 11 Jul 2017 15:08

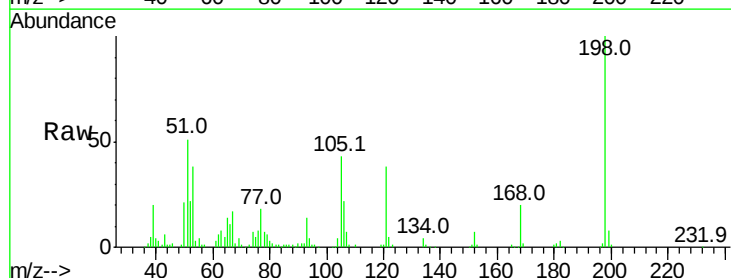
Tgt Ion:198 Resp: 98000

Ion Ratio Lower Upper

198 100

51 51.3 53.2 93.2#

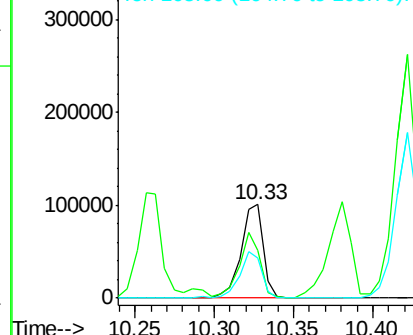
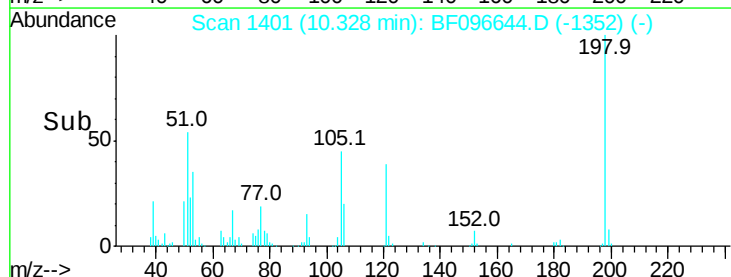
105 42.9 45.8 85.8#

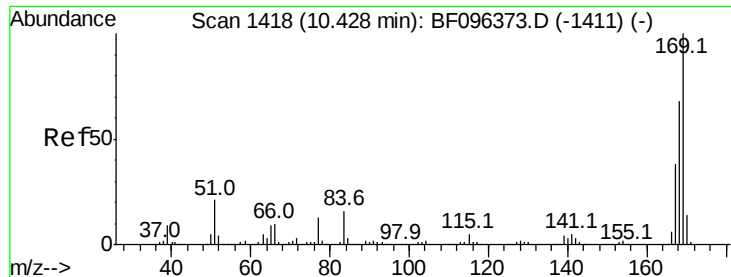


Abundance Ion 198.00 (197.70 to 198.70): E

Ion 51.00 (50.70 to 51.70): BF0

Ion 105.00 (104.70 to 105.70): E

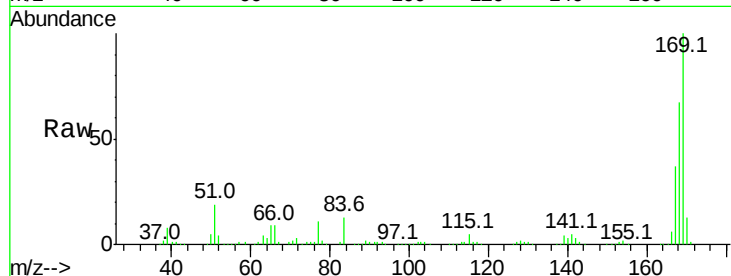




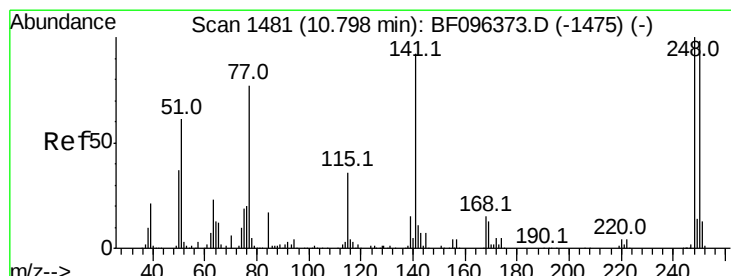
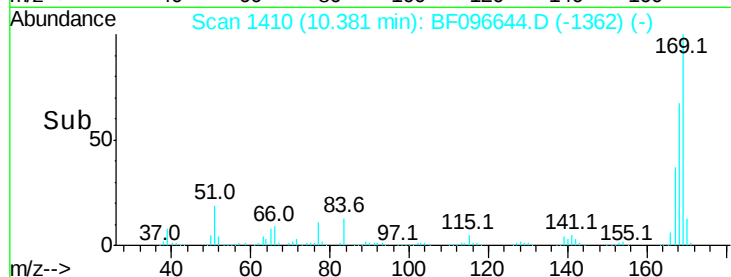
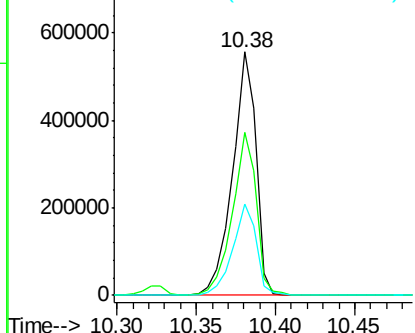
#65
 n-Nitrosodiphenylamine
 Concen: 47.232 ng
 RT: 10.38 min Scan# 1410
 Delta R.T. -0.02 min
 Lab File: BF096644.D
 Acq: 11 Jul 2017 15:08

Instrument :
 BNA_F
 ClientSampleId :
 NAA-SANDMSD

Tot Ion:169 Resp: 570262
 Ion Ratio Lower Upper
 169 100
 168 67.2 53.2 79.8
 167 37.3 29.5 44.3

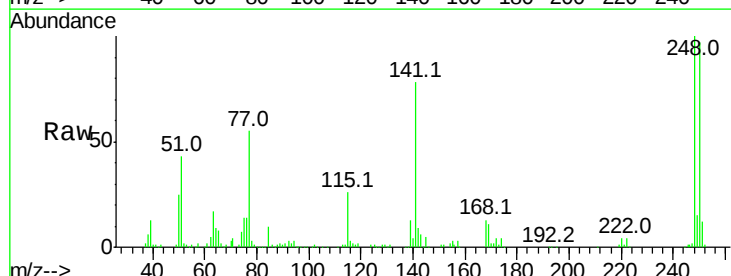


Abundance Ion 169.00 (168.70 to 169.70): E
 Ion 168.00 (167.70 to 168.70): E
 Ion 167.00 (166.70 to 167.70): E

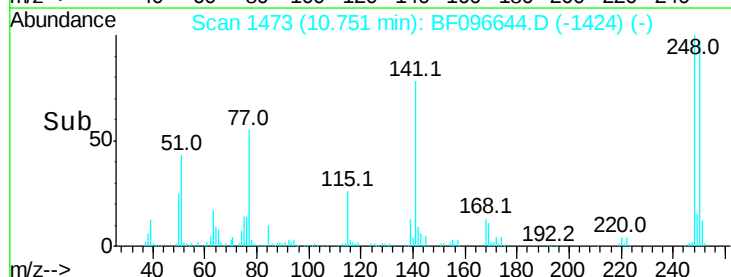
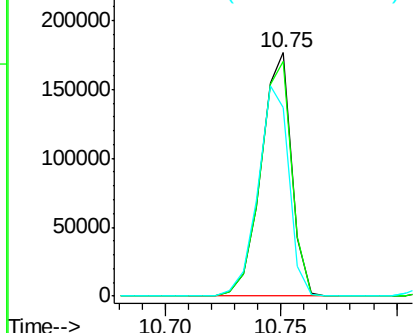


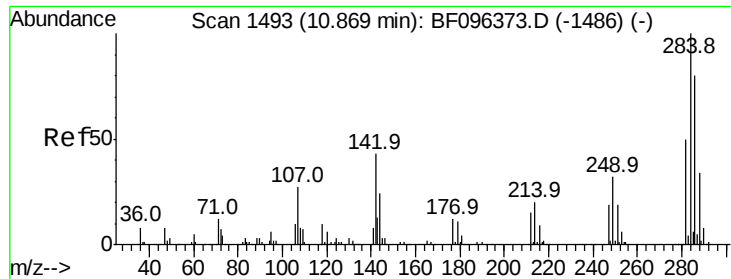
#66
 4-Bromophenyl-phenylether
 Concen: 48.426 ng
 RT: 10.75 min Scan# 1473
 Delta R.T. -0.01 min
 Lab File: BF096644.D
 Acq: 11 Jul 2017 15:08

Tgt Ion:248 Resp: 162216
 Ion Ratio Lower Upper
 248 100
 250 96.6 76.8 115.2
 141 77.7 68.6 103.0



Abundance Ion 248.00 (247.70 to 248.70): E
 Ion 250.00 (249.70 to 250.70): E
 Ion 141.00 (140.70 to 141.70): E

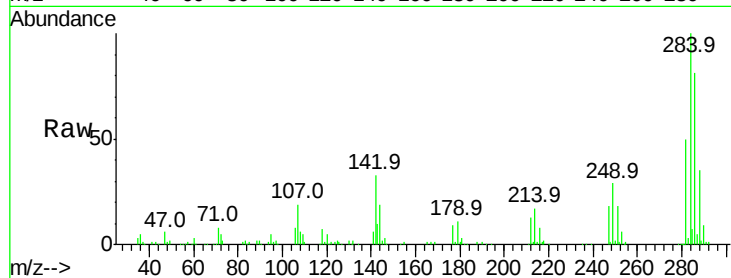




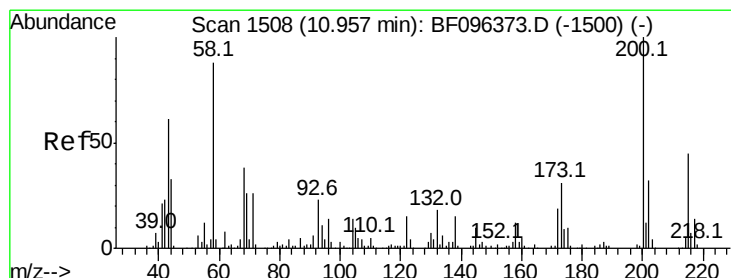
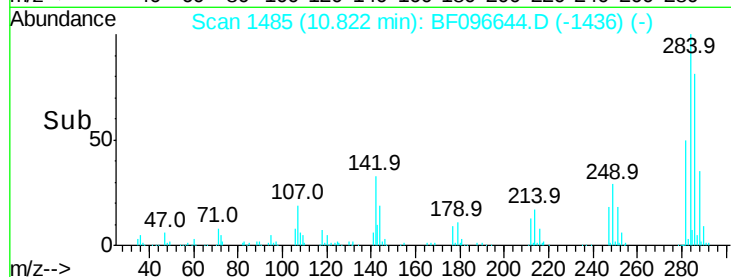
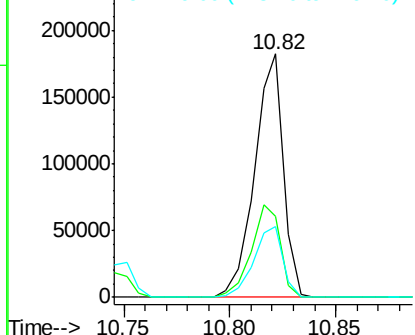
#67
Hexachlorobenzene
Concen: 46.900 ng
RT: 10.82 min Scan# 1485
Delta R.T. -0.01 min
Lab File: BF096644.D
Acq: 11 Jul 2017 15:08

Instrument :
BNA_F
ClientSampleId :
NAA-SANDMSD

Tot Ion	Ratio	Lower	Upper
284	100		
142	33.3	22.8	34.2
249	29.3	24.0	36.0

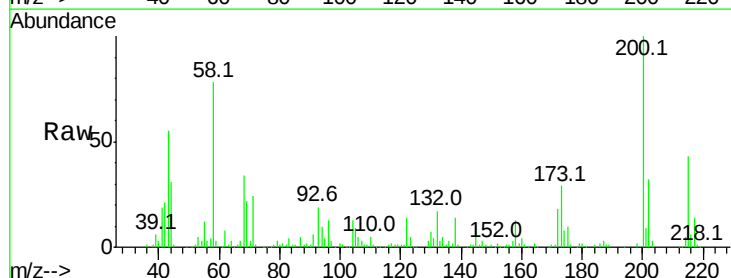


Abundance Ion 283.80 (283.50 to 284.50): E
Ion 142.00 (141.70 to 142.70): E
Ion 249.00 (248.70 to 249.70): E

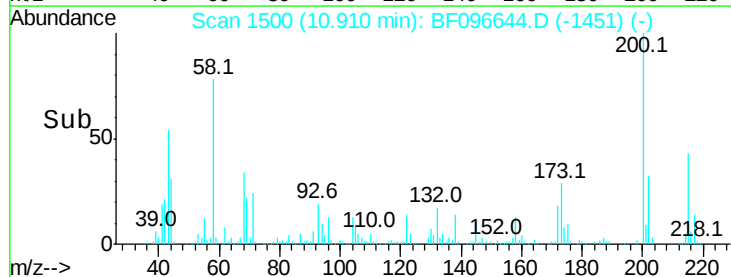
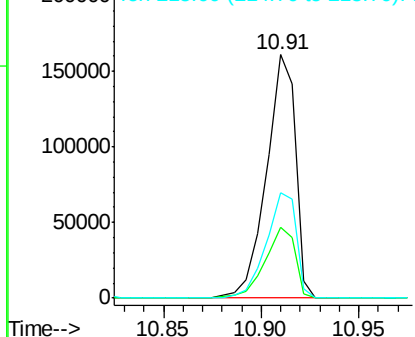


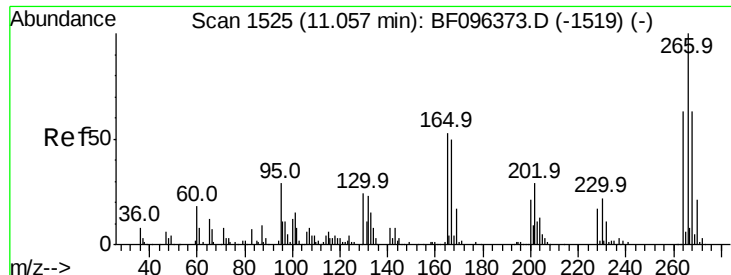
#68
Atrazine
Concen: 48.198 ng
RT: 10.91 min Scan# 1500
Delta R.T. -0.01 min
Lab File: BF096644.D
Acq: 11 Jul 2017 15:08

Tgt Ion	Ratio	Lower	Upper
200	100		
173	29.1	6.3	46.3
215	43.4	27.2	67.2



Abundance Ion 200.00 (199.70 to 200.70): E
Ion 173.00 (172.70 to 173.70): E
Ion 215.00 (214.70 to 215.70): E

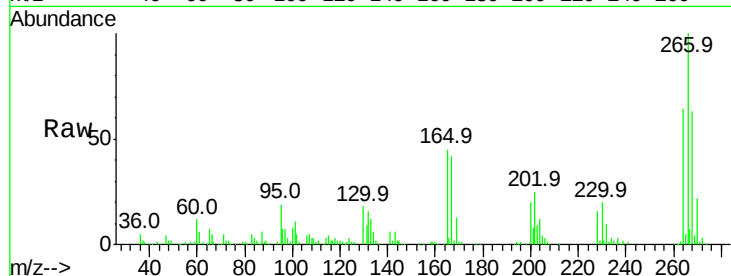




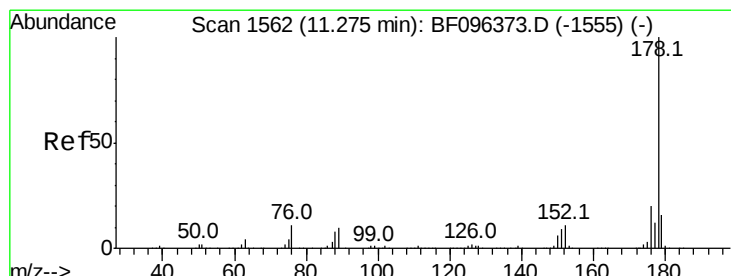
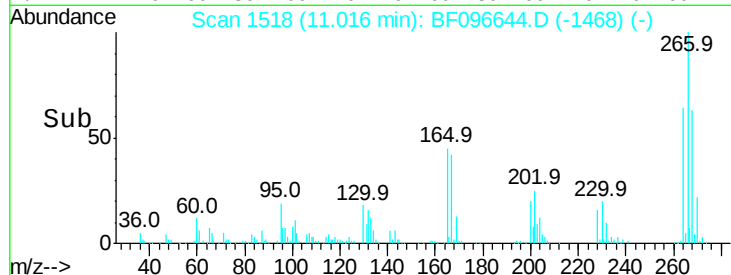
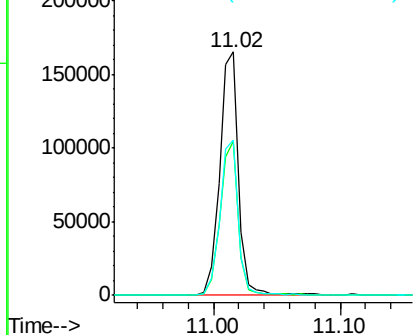
#69
 Pentachlorophenol
 Concen: 79.003 ng
 RT: 11.02 min Scan# 1518
 Delta R.T. -0.01 min
 Lab File: BF096644.D
 Acq: 11 Jul 2017 15:08

Instrument :
 BNA_F
 ClientSampleId :
 NAA-SANDMSD

Tot Ion:266 Resp: 171697
 Ion Ratio Lower Upper
 266 100
 268 63.2 51.1 76.7
 264 63.5 51.7 77.5

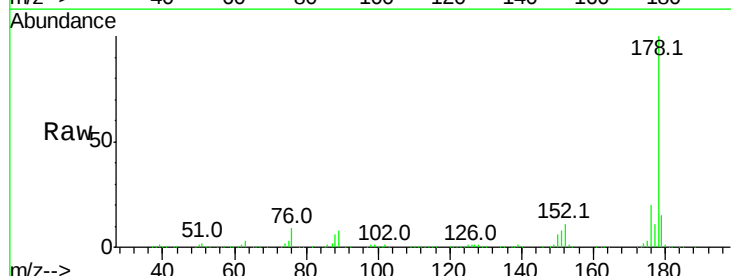


Abundance Ion 265.70 (265.40 to 266.40): E
 Ion 268.00 (267.70 to 268.70): E
 Ion 264.00 (263.70 to 264.70): E

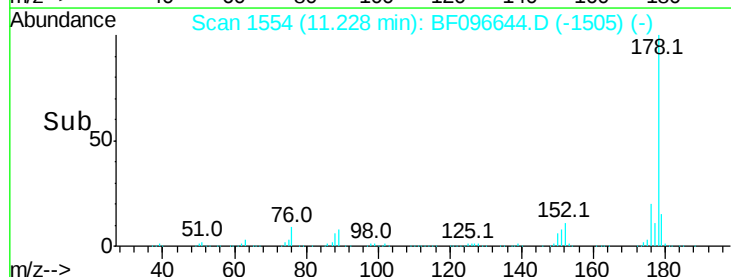
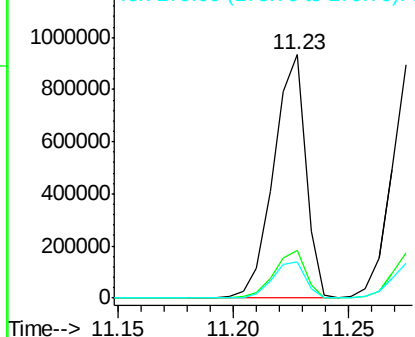


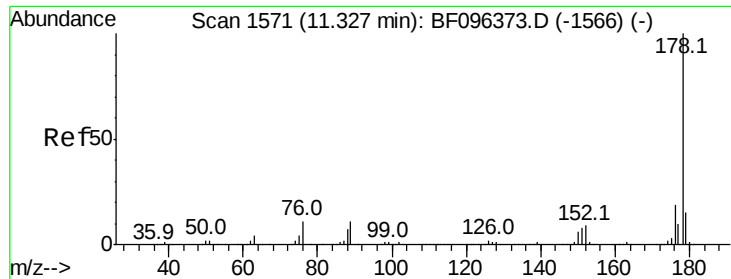
#70
 Phenanthrene
 Concen: 48.384 ng
 RT: 11.23 min Scan# 1554
 Delta R.T. -0.01 min
 Lab File: BF096644.D
 Acq: 11 Jul 2017 15:08

Tgt Ion:178 Resp: 900024
 Ion Ratio Lower Upper
 178 100
 176 19.6 16.2 24.4
 179 14.9 12.6 19.0



Abundance Ion 178.00 (177.70 to 178.70): E
 Ion 176.00 (175.70 to 176.70): E
 Ion 179.00 (178.70 to 179.70): E

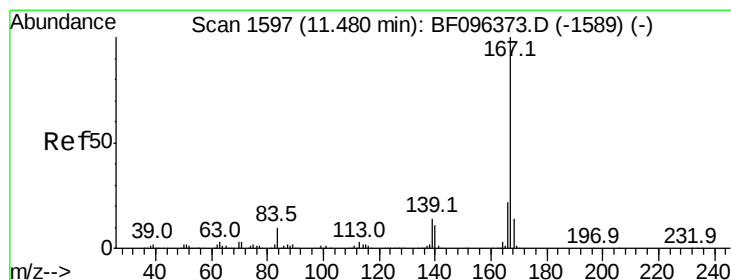
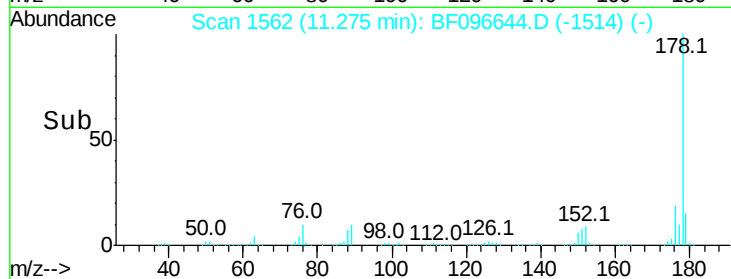
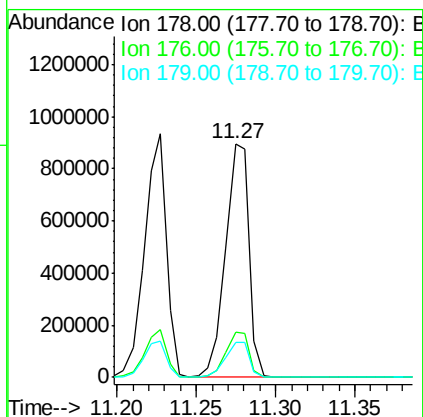
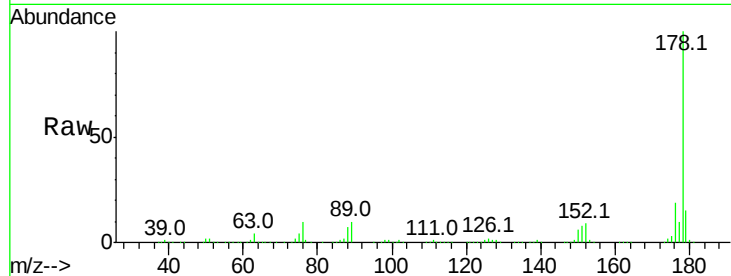




#71
 Anthracene
 Concen: 48.637 ng
 RT: 11.27 min Scan# 1562
 Delta R.T. -0.02 min
 Lab File: BF096644.D
 Acq: 11 Jul 2017 15:08

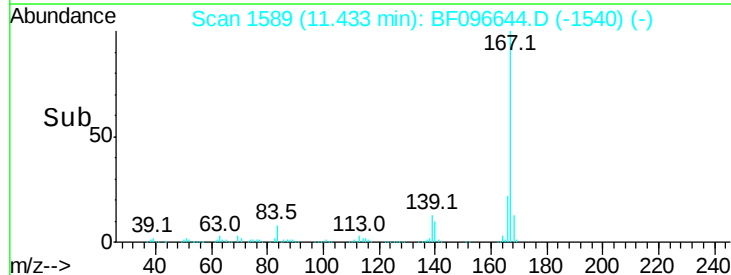
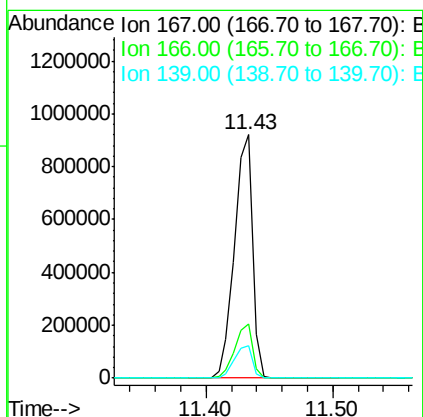
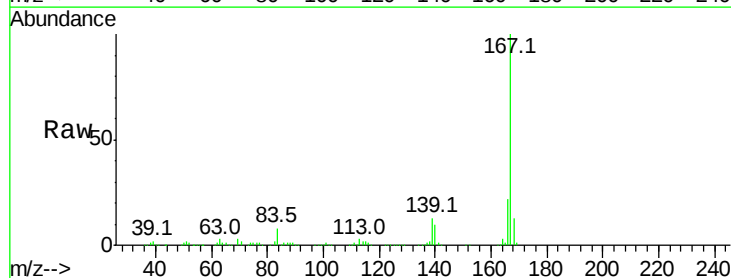
Instrument :
 BNA_F
 ClientSampleId :
 NAA-SANDMSD

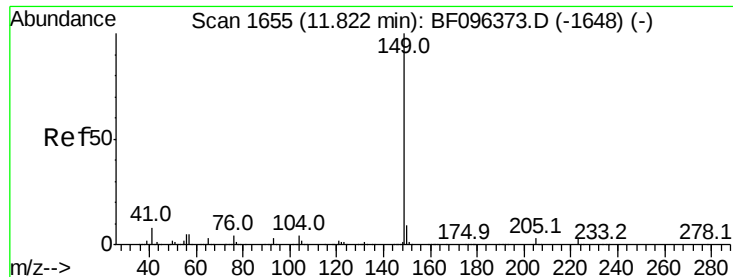
Tot Ion:178 Resp: 921947
 Ion Ratio Lower Upper
 178 100
 176 19.4 15.8 23.8
 179 15.2 12.7 19.1



#72
 Carbazole
 Concen: 47.357 ng
 RT: 11.43 min Scan# 1589
 Delta R.T. -0.01 min
 Lab File: BF096644.D
 Acq: 11 Jul 2017 15:08

Tgt Ion:167 Resp: 902795
 Ion Ratio Lower Upper
 167 100
 166 22.0 18.1 27.1
 139 13.4 11.7 17.5





#73

Di-n-butylphthalate

Concen: 45.763 ng

RT: 11.77 min Scan# 1646

Delta R.T. -0.01 min

Lab File: BF096644.D

Acq: 11 Jul 2017 15:08

Instrument :

BNA_F

ClientSampleId :

NAA-SANDMSD

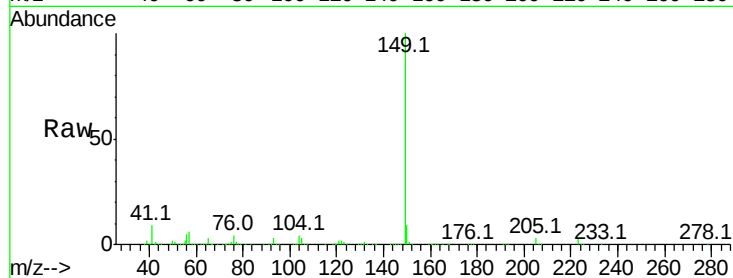
Tot Ion:149 Resp: 1056678

Ion Ratio Lower Upper

149 100

150 9.3 7.7 11.5

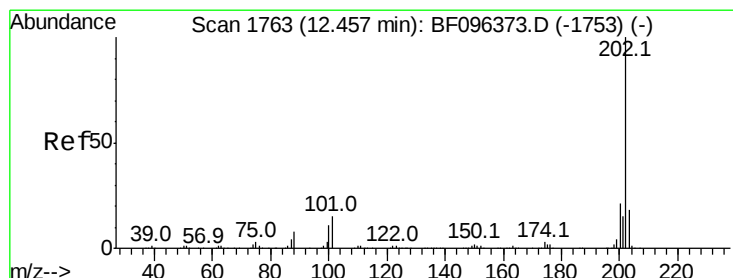
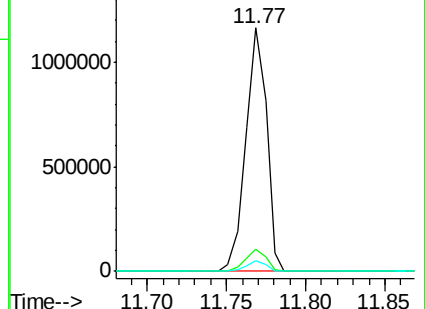
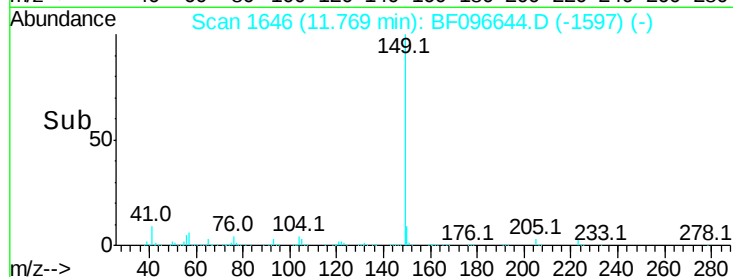
104 4.4 4.0 6.0



Abundance Ion 149.00 (148.70 to 149.70): E

Ion 150.00 (149.70 to 150.70): E

Ion 104.00 (103.70 to 104.70): E



#74

Fluoranthene

Concen: 48.935 ng

RT: 12.41 min Scan# 1755

Delta R.T. -0.01 min

Lab File: BF096644.D

Acq: 11 Jul 2017 15:08

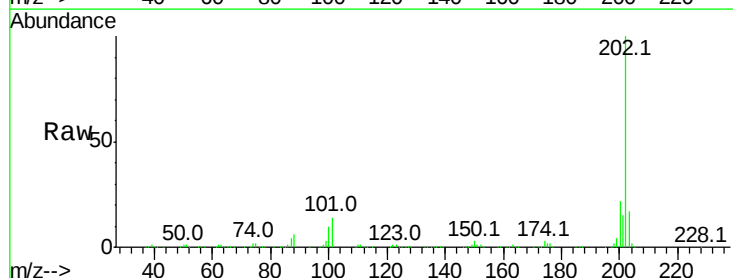
Tgt Ion:202 Resp: 892476

Ion Ratio Lower Upper

202 100

101 13.9 0.0 33.2

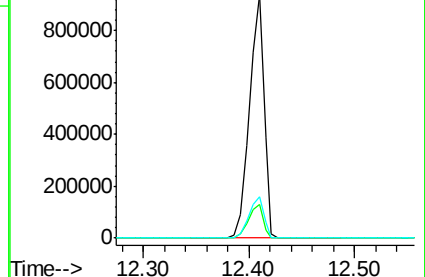
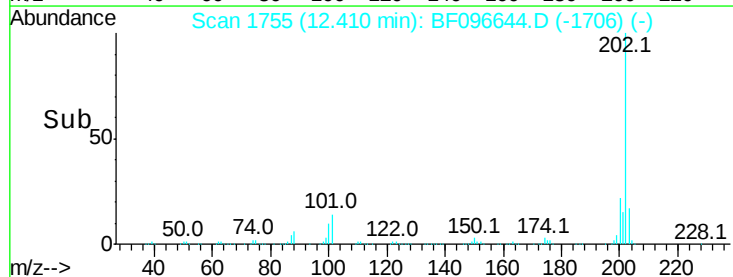
203 17.2 0.0 38.1

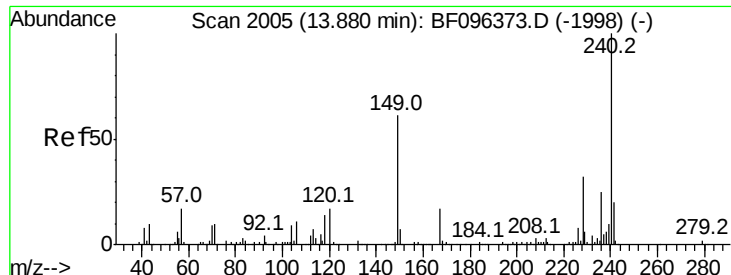


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E





#75

Chrysene-d12

Concen: 20.000 ng

RT: 13.83 min Scan# 1997

Delta R.T. -0.01 min

Lab File: BF096644.D

Acq: 11 Jul 2017 15:08

Instrument :

BNA_F

ClientSampleId :

NAA-SANDMSD

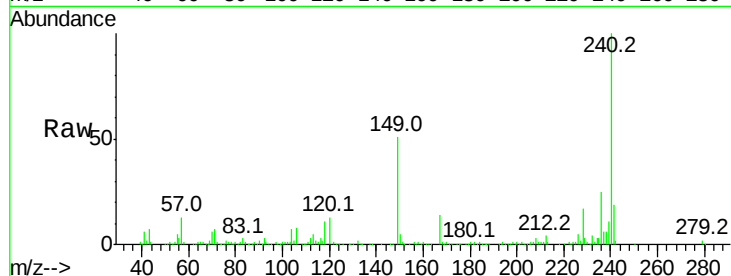
Tot Ion:240 Resp: 217285

Ion Ratio Lower Upper

240 100

120 12.9 5.8 8.8#

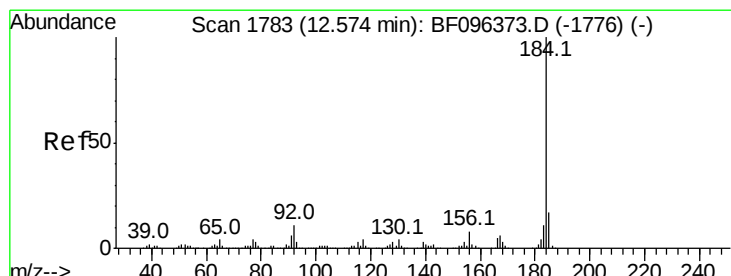
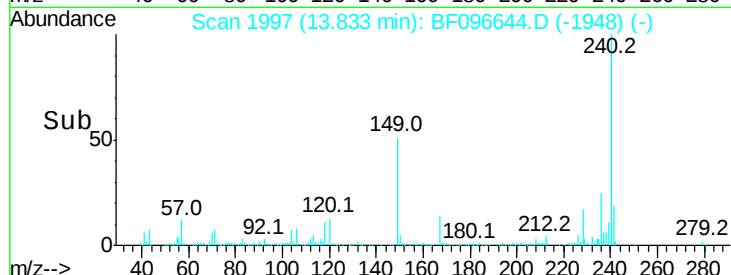
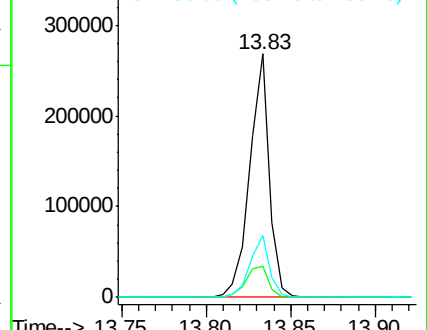
236 25.4 20.5 30.7



Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E



#76

Benzidine

Concen: 38.300 ng

RT: 12.53 min Scan# 1775

Delta R.T. -0.01 min

Lab File: BF096644.D

Acq: 11 Jul 2017 15:08

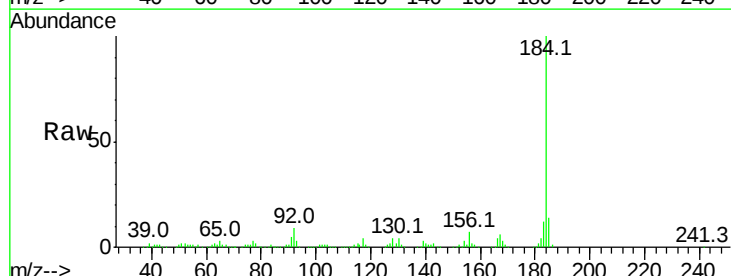
Tgt Ion:184 Resp: 399319

Ion Ratio Lower Upper

184 100

185 13.9 15.5 23.3#

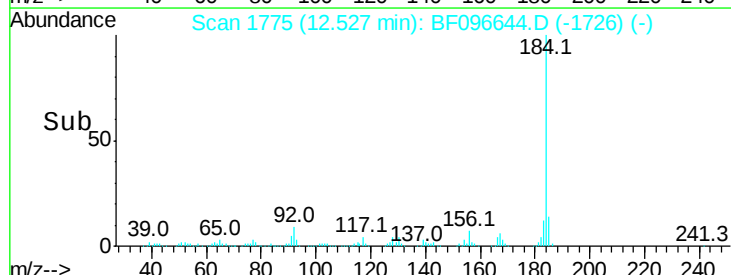
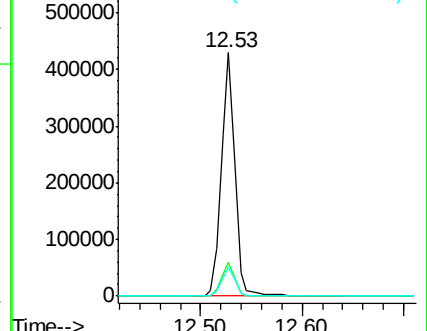
183 11.8 9.8 14.6

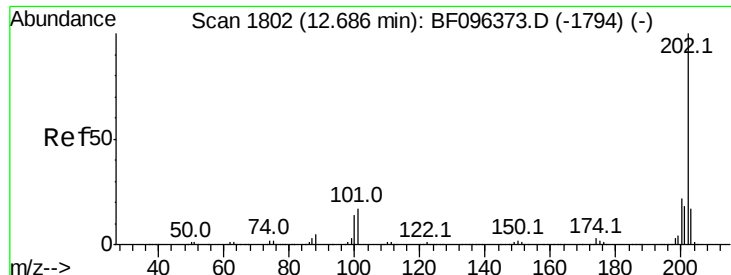


Abundance Ion 184.00 (183.70 to 184.70): E

Ion 185.00 (184.70 to 185.70): E

Ion 183.00 (182.70 to 183.70): E

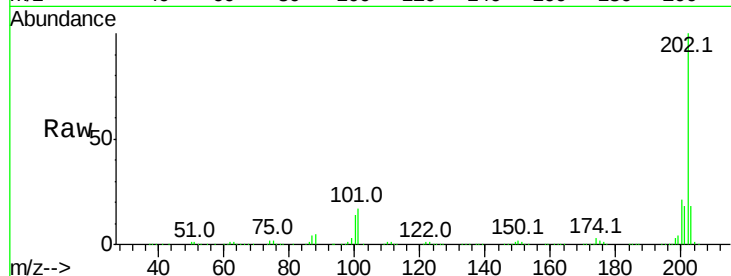




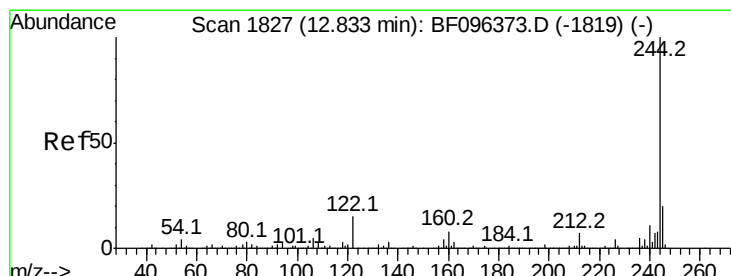
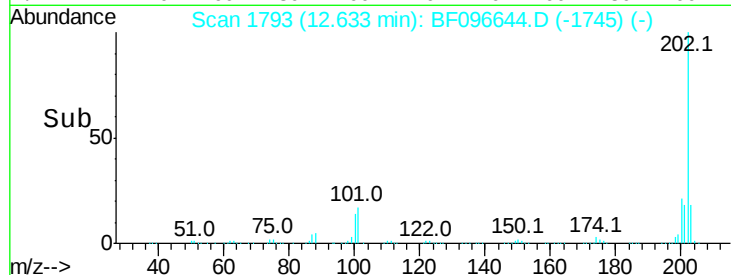
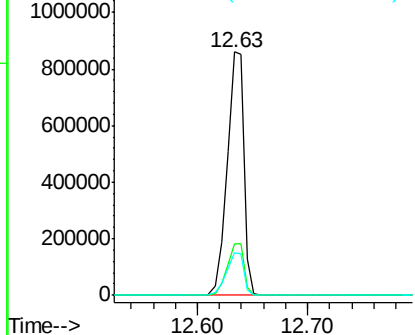
#77
Pvrene
Concen: 52.488 ng
RT: 12.63 min Scan# 1793
Delta R.T. -0.02 min
Lab File: BF096644.D
Acq: 11 Jul 2017 15:08

Instrument :
BNA_F
ClientSampleId :
NAA-SANDMSD

Tot Ion:202 Resp: 915436
Ion Ratio Lower Upper
202 100
200 21.4 17.6 26.4
203 17.5 14.4 21.6

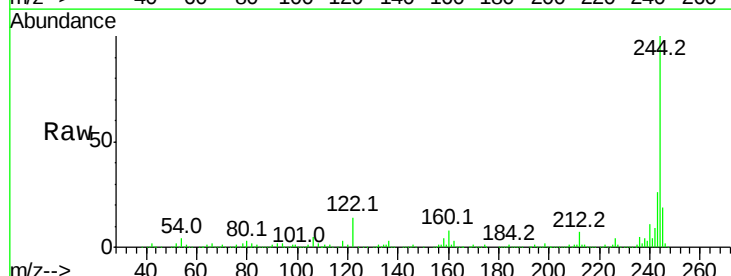


Abundance Ion 202.00 (201.70 to 202.70): E
Ion 200.00 (199.70 to 200.70): E
Ion 203.00 (202.70 to 203.70): E

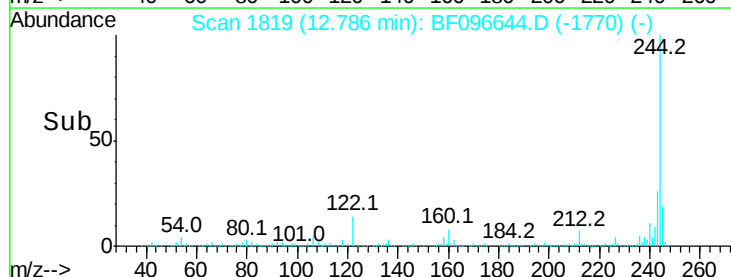
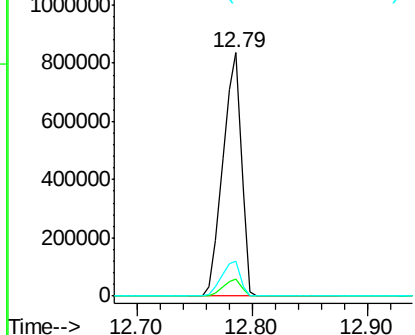


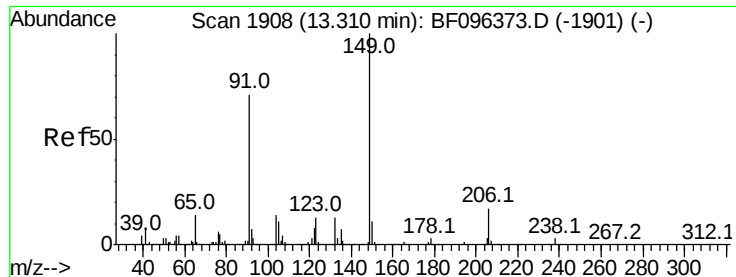
#78
Terphenyl-d14
Concen: 91.244 ng
RT: 12.79 min Scan# 1819
Delta R.T. -0.01 min
Lab File: BF096644.D
Acq: 11 Jul 2017 15:08

Tgt Ion:244 Resp: 927812
Ion Ratio Lower Upper
244 100
212 6.8 6.0 9.0
122 14.4 10.3 15.5



Abundance Ion 244.00 (243.70 to 244.70): E
Ion 212.00 (211.70 to 212.70): E
Ion 122.00 (121.70 to 122.70): E

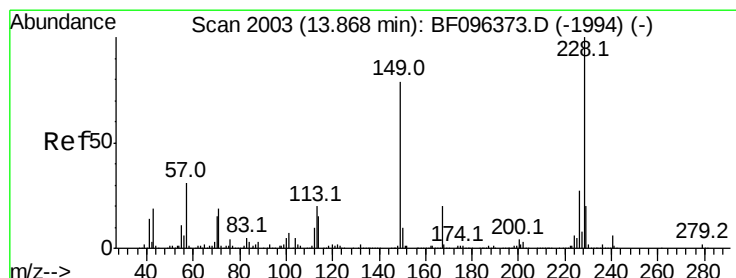
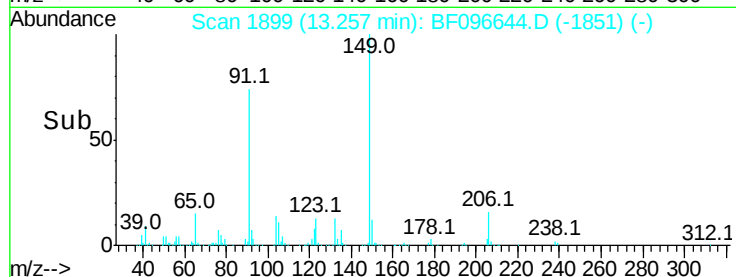
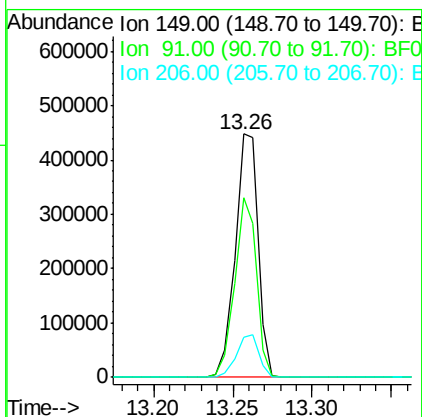
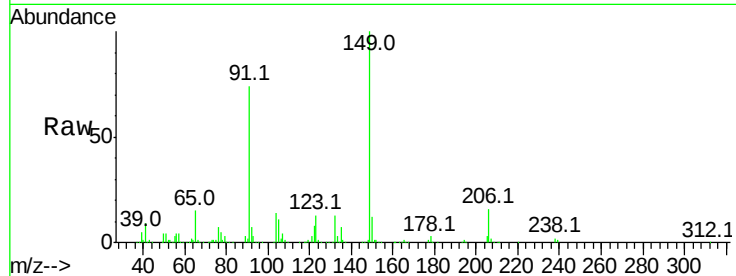




#79
Butylbenzylphthalate
Concen: 50.509 ng
RT: 13.26 min Scan# 1899
Delta R.T. -0.02 min
Lab File: BF096644.D
Acq: 11 Jul 2017 15:08

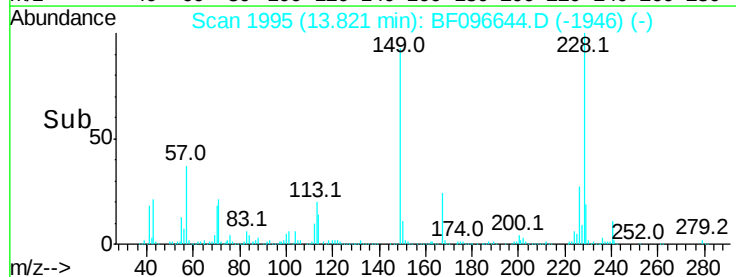
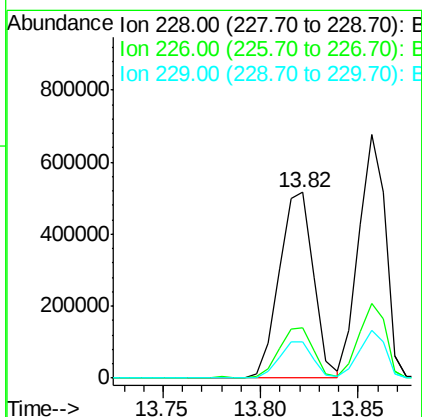
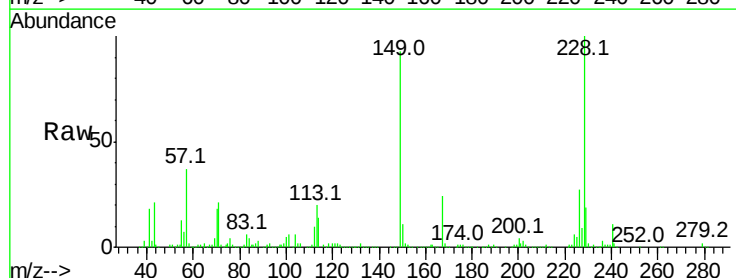
Instrument :
BNA_F
ClientSampleId :
NAA-SANDMSD

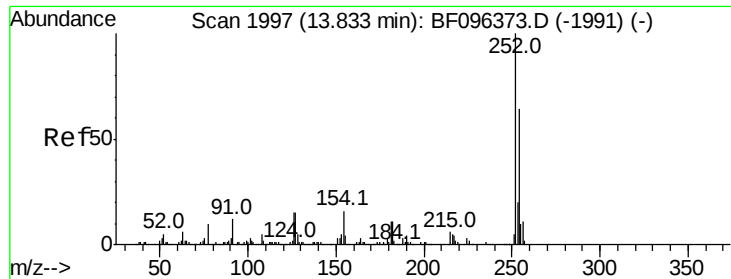
Tot Ion:149 Resp: 445933
Ion Ratio Lower Upper
149 100
91 73.9 45.0 67.4#
206 16.3 17.0 25.6#



#80
Benzo(a)anthracene
Concen: 49.778 ng
RT: 13.82 min Scan# 1995
Delta R.T. -0.01 min
Lab File: BF096644.D
Acq: 11 Jul 2017 15:08

Tgt Ion:228 Resp: 626336
Ion Ratio Lower Upper
228 100
226 27.4 22.6 33.8
229 19.5 16.3 24.5





#81

3,3'-Dichlorobenzidine

Concen: 33.523 ng

RT: 13.78 min Scan# 1988

Delta R.T. -0.02 min

Lab File: BF096644.D

Acq: 11 Jul 2017 15:08

Instrument :

BNA_F

ClientSampleId :

NAA-SANDMSD

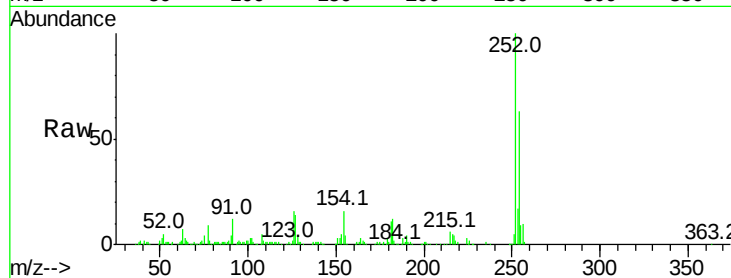
Tot Ion:252 Resp: 173247

Ion Ratio Lower Upper

252 100

254 63.3 51.5 77.3

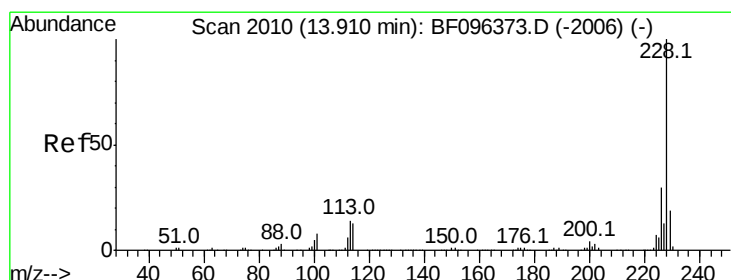
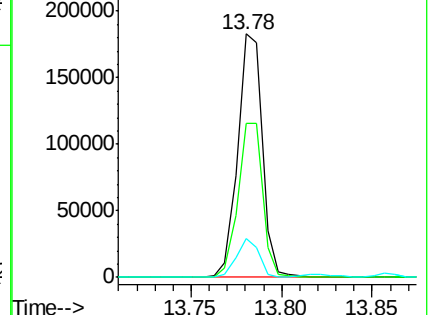
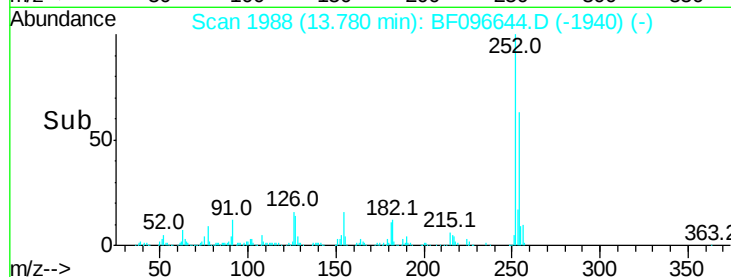
126 16.0 15.8 23.8



Abundance Ion 252.00 (251.70 to 252.70): E

Ion 254.00 (253.70 to 254.70): E

Ion 126.00 (125.70 to 126.70): E



#82

Chrysene

Concen: 49.022 ng

RT: 13.86 min Scan# 2001

Delta R.T. -0.02 min

Lab File: BF096644.D

Acq: 11 Jul 2017 15:08

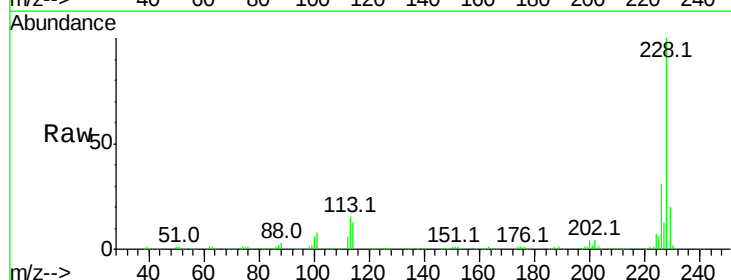
Tgt Ion:228 Resp: 645943

Ion Ratio Lower Upper

228 100

226 30.9 24.9 37.3

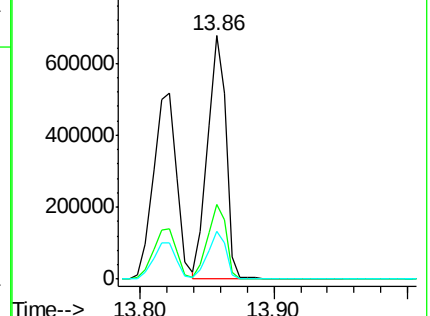
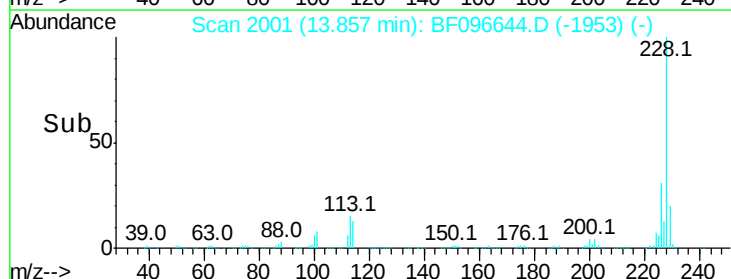
229 19.6 15.8 23.6

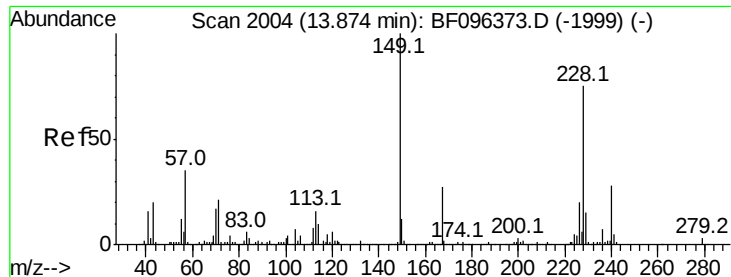


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#83

Bis(2-ethylhexyl)phthalate

Concen: 50.652 ng

RT: 13.83 min Scan# 1996

Delta R.T. -0.01 min

Lab File: BF096644.D

Acq: 11 Jul 2017 15:08

Instrument :

BNA_F

ClientSampleId :

NAA-SANDMSD

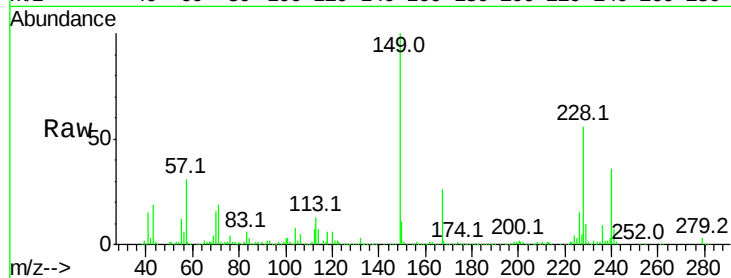
Tot Ion:149 Resp: 499181

Ion Ratio Lower Upper

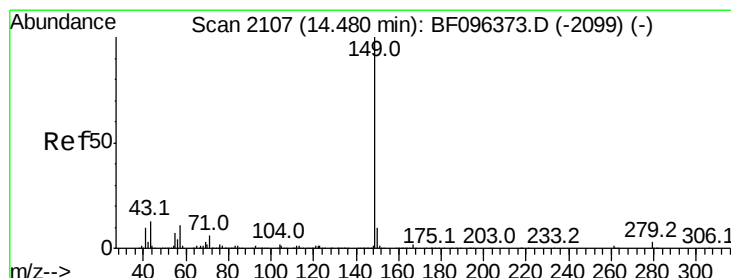
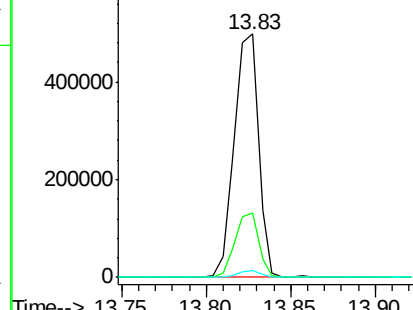
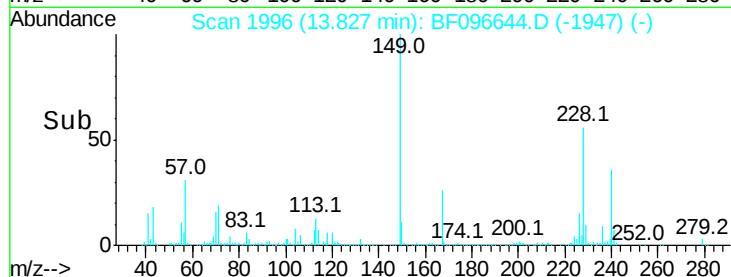
149 100

167 26.2 21.0 31.4

279 3.0 1.9 2.9#



Abundance Ion 149.00 (148.70 to 149.70): E
Ion 167.00 (166.70 to 167.70): E
Ion 279.00 (278.70 to 279.70): E



#84

Di-n-octyl phthalate

Concen: 48.241 ng

RT: 14.43 min Scan# 2099

Delta R.T. -0.01 min

Lab File: BF096644.D

Acq: 11 Jul 2017 15:08

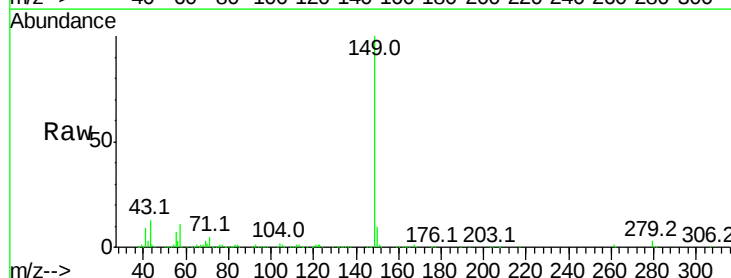
Tgt Ion:149 Resp: 936228

Ion Ratio Lower Upper

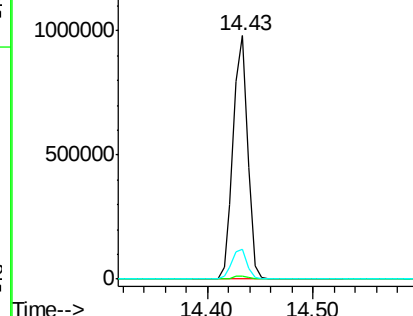
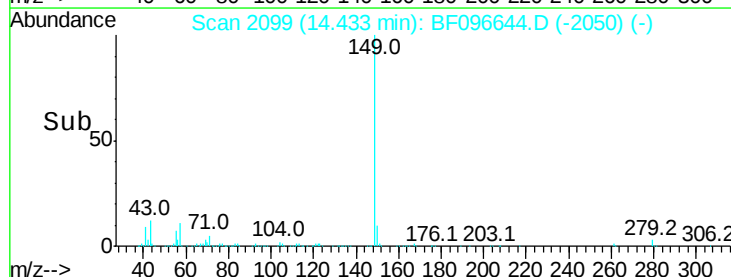
149 100

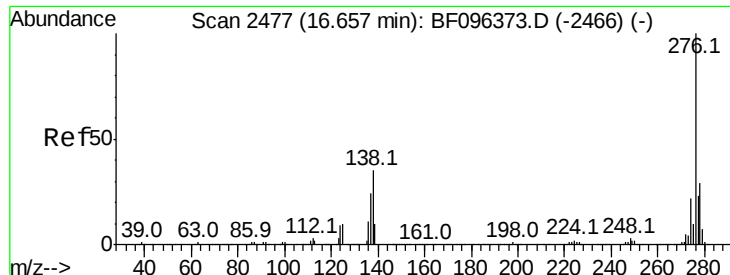
167 1.5 1.2 1.8

43 12.7 8.5 12.7



Abundance Ion 149.00 (148.70 to 149.70): E
Ion 167.00 (166.70 to 167.70): E
Ion 43.00 (42.70 to 43.70): BF0

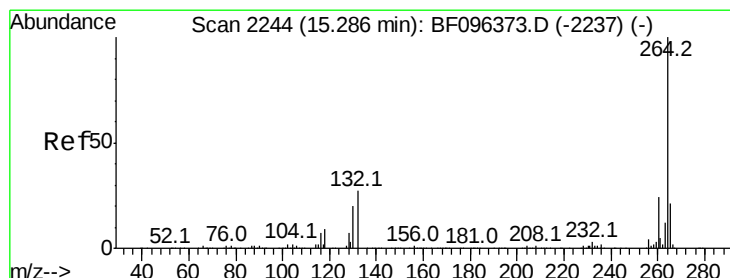
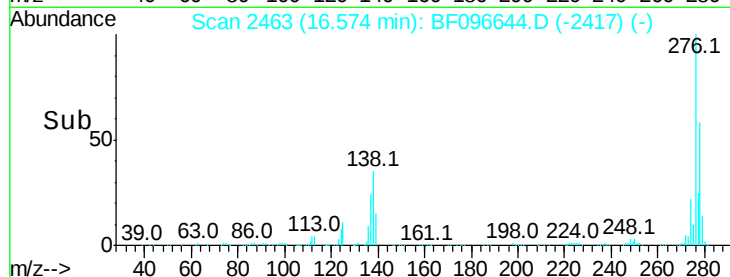
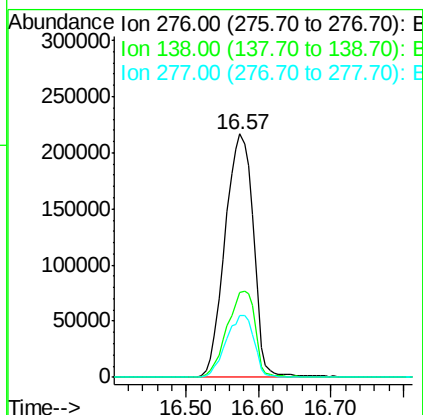
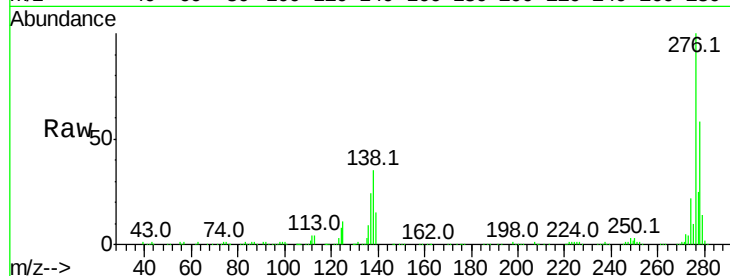




#85
Indeno(1,2,3-cd)pyrene
Concen: 56.803 ng
RT: 16.57 min Scan# 2463
Delta R.T. -0.03 min
Lab File: BF096644.D
Acq: 11 Jul 2017 15:08

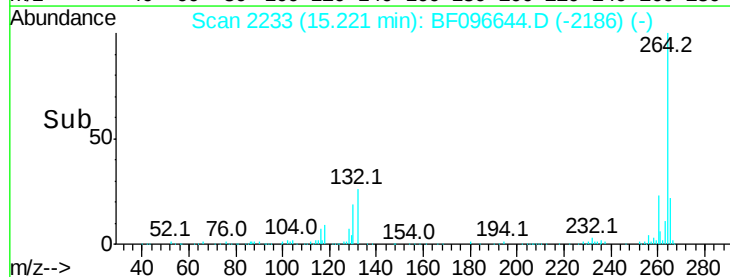
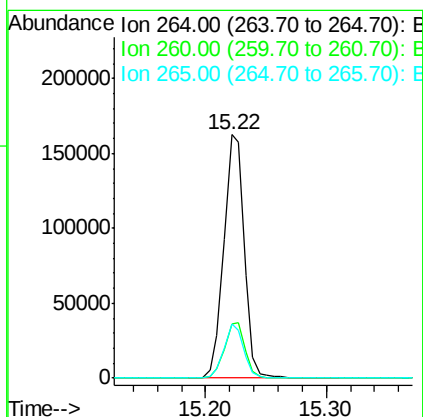
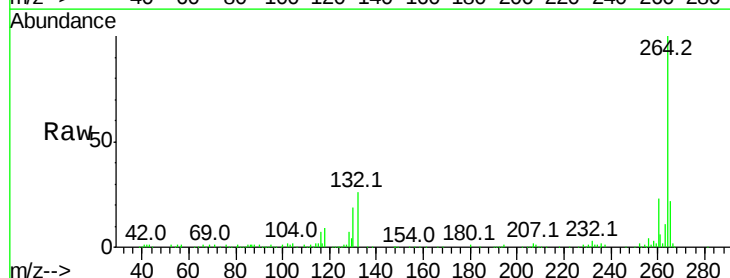
Instrument :
BNA_F
ClientSampleId :
NAA-SANDMSD

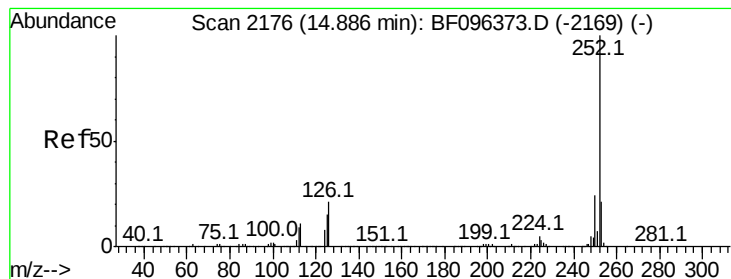
Tot Ion	Ratio	Lower	Upper
276	100		
138	35.1	27.8	41.6
277	25.1	20.2	30.4



#86
Perylene-d12
Concen: 20.000 ng
RT: 15.22 min Scan# 2233
Delta R.T. -0.02 min
Lab File: BF096644.D
Acq: 11 Jul 2017 15:08

Tgt Ion	Ratio	Lower	Upper
264	100		
260	22.5	19.5	29.3
265	22.2	17.2	25.8





#87

Benzo(b)fluoranthene

Concen: 50.850 ng

RT: 14.83 min Scan# 2167

Delta R.T. -0.02 min

Lab File: BF096644.D

Acq: 11 Jul 2017 15:08

Instrument :

BNA_F

ClientSampleId :

NAA-SANDMSD

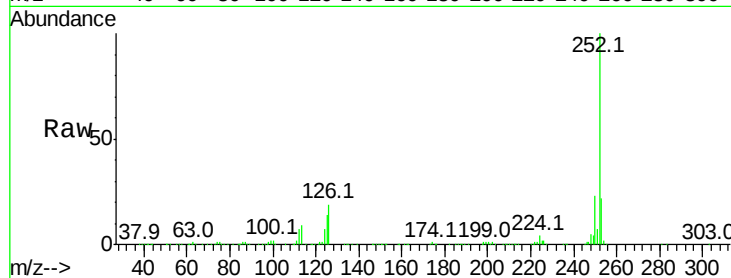
Tot Ion:252 Resp: 606545

Ion Ratio Lower Upper

252 100

253 21.8 18.1 27.1

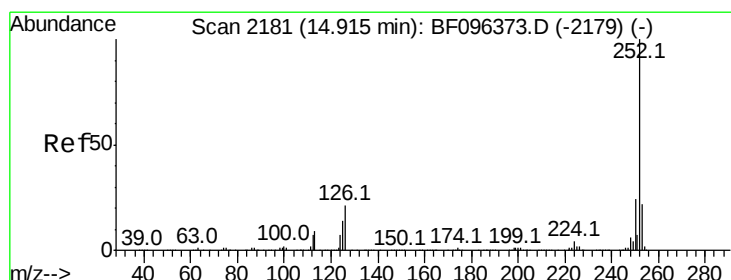
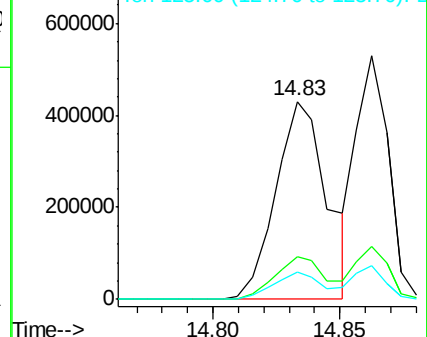
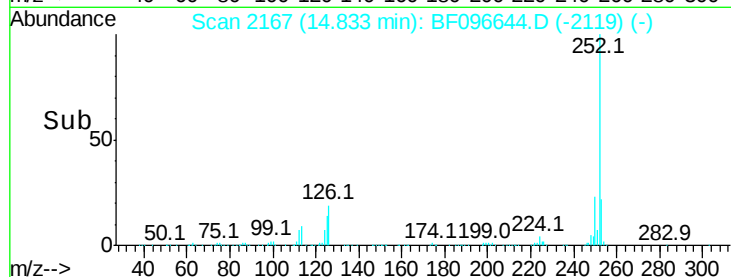
125 14.0 9.8 14.8



Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



#88

Benzo(k)fluoranthene

Concen: 44.785 ng

RT: 14.86 min Scan# 2172

Delta R.T. -0.02 min

Lab File: BF096644.D

Acq: 11 Jul 2017 15:08

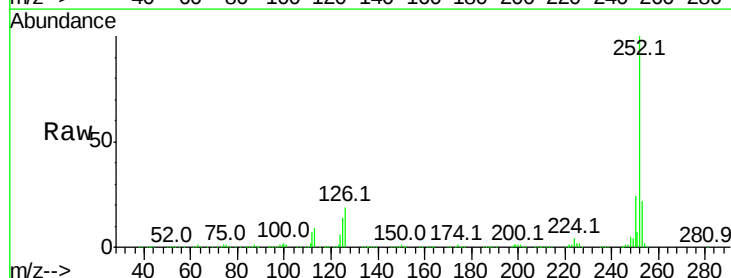
Tgt Ion:252 Resp: 477845

Ion Ratio Lower Upper

252 100

253 21.5 18.4 27.6

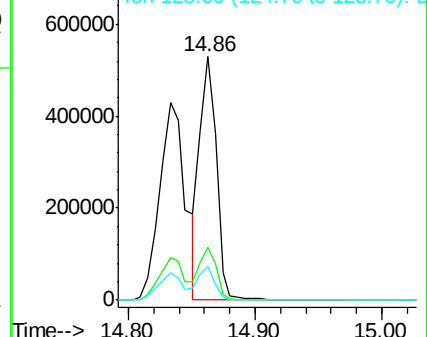
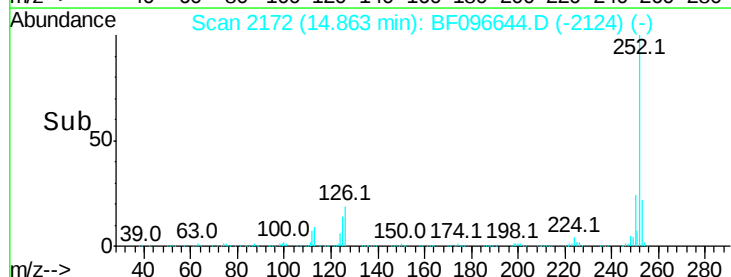
125 13.7 13.1 19.7

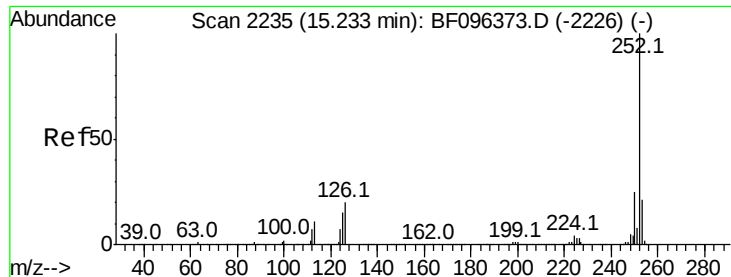


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#89

Benzo(a)pyrene

Concen: 49.044 ng

RT: 15.17 min Scan# 2225

Delta R.T. -0.02 min

Lab File: BF096644.D

Acq: 11 Jul 2017 15:08

Instrument :

BNA_F

ClientSampleId :

NAA-SANDMSD

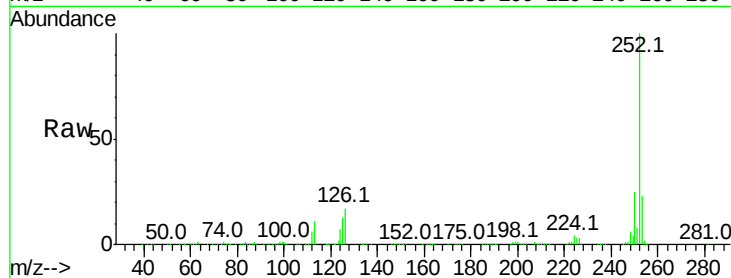
Tot Ion:252 Resp: 522280

Ion Ratio Lower Upper

252 100

253 22.6 17.5 26.3

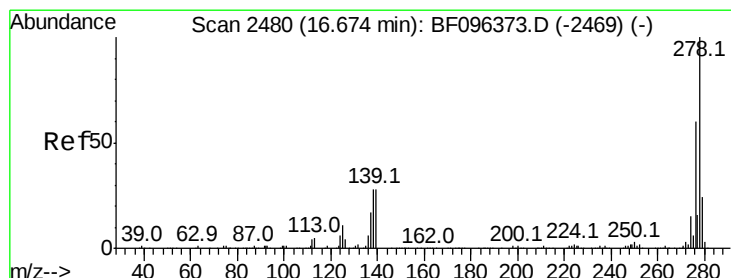
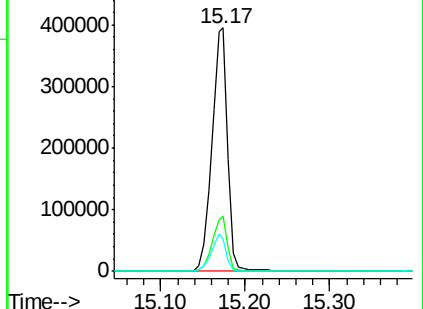
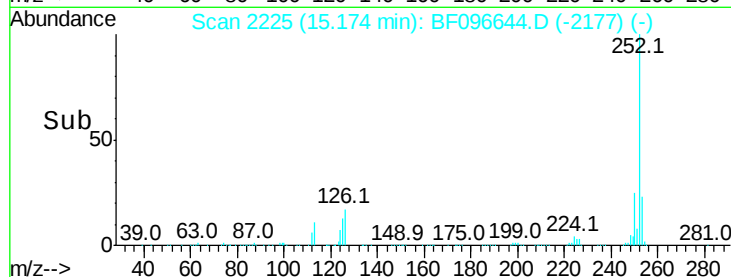
125 13.2 11.0 16.4



Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



#90

Dibenzo(a,h)anthracene

Concen: 56.808 ng

RT: 16.59 min Scan# 2466

Delta R.T. -0.02 min

Lab File: BF096644.D

Acq: 11 Jul 2017 15:08

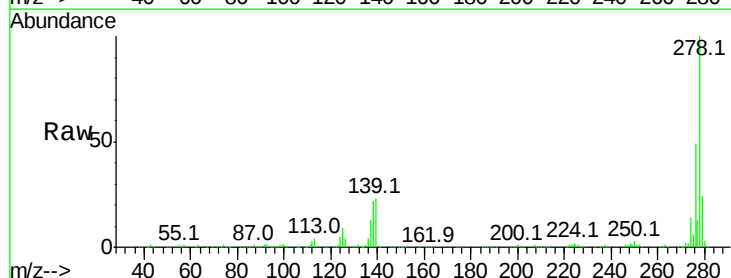
Tgt Ion:278 Resp: 475927

Ion Ratio Lower Upper

278 100

139 22.7 16.6 24.8

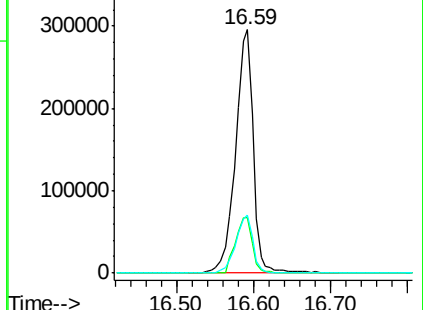
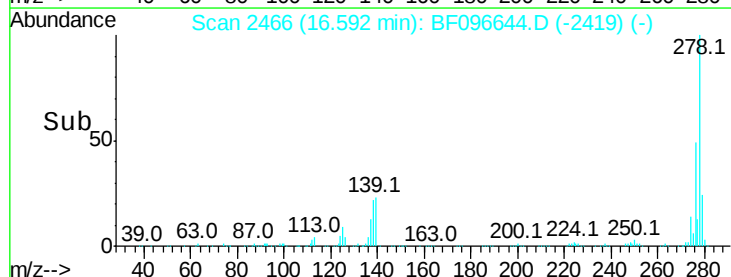
279 23.9 19.3 28.9

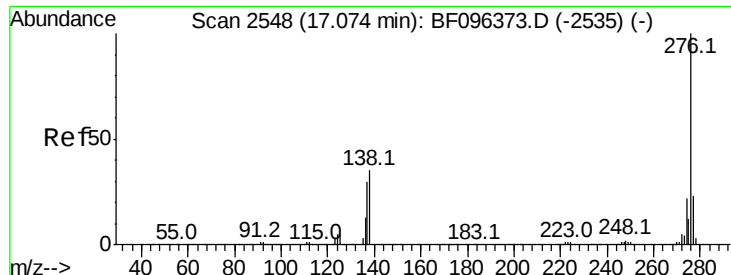


Abundance Ion 278.00 (277.70 to 278.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 279.00 (278.70 to 279.70): E





#91

Benzo(a,h,i)perylene

Concen: 59.648 ng

RT: 16.98 min Scan# 2532

Delta R.T. -0.02 min

Lab File: BF096644.D

Acq: 11 Jul 2017 15:08

Instrument :

BNA_F

ClientSampleId :

NAA-SANDMSD

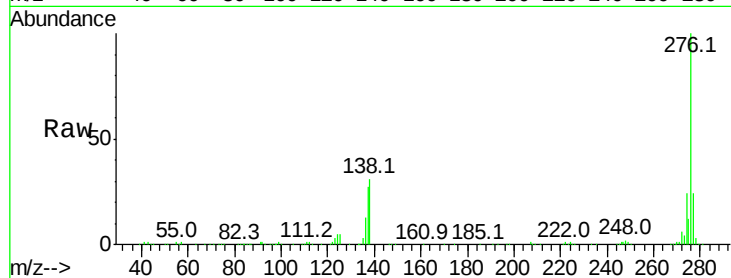
Tot Ion:276 Resp: 517824

Ion Ratio Lower Upper

276 100

277 23.5 18.6 28.0

138 31.4 25.4 38.0



Abundance Ion 276.00 (275.70 to 276.70): E

Ion 277.00 (276.70 to 277.70): E

Ion 138.00 (137.70 to 138.70): E

