

Data Path : \\74.0.250.170\SV0ASRV\HPCHEM1\BNA F\DATA\BF121517\
 Data File : BF101444.D
 Acq On : 15 Dec 2017 15:51
 Operator : SJ/JU
 Sample : I6877-02 20X
 Misc :
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :

Quant Time: Dec 15 17:38:27 2017
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF121417.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Dec 15 17:36:17 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.82	152	184740	20.00	ng	0.00
21) Naphthalene-d8	8.10	136	774072	20.00	ng	0.00
38) Acenaphthene-d10	9.85	164	339753	20.00	ng	0.00
63) Phenanthrene-d10	11.34	188	605147	20.00	ng	0.00
75) Chrysene-d12	13.99	240	381135	20.00	ng	0.00
86) Perylene-d12	15.46	264	366940	20.00	ng	0.00

System Monitoring Compounds

5) 2-Fluorophenol	5.45	112	73136	5.90	ng	0.02
7) Phenol-d6	6.46	99	98617	6.39	ng	0.00
23) Nitrobenzene-d5	7.39	82	55749	4.01	ng	0.00
41) 2,4,6-Tribromophenol	10.65	330	17961	5.49	ng	0.00
44) 2-Fluorobiphenyl	9.17	172	90899	4.15	ng	0.00
78) Terphenyl-d14	12.92	244	73113	4.62	ng	-0.01

Target Compounds

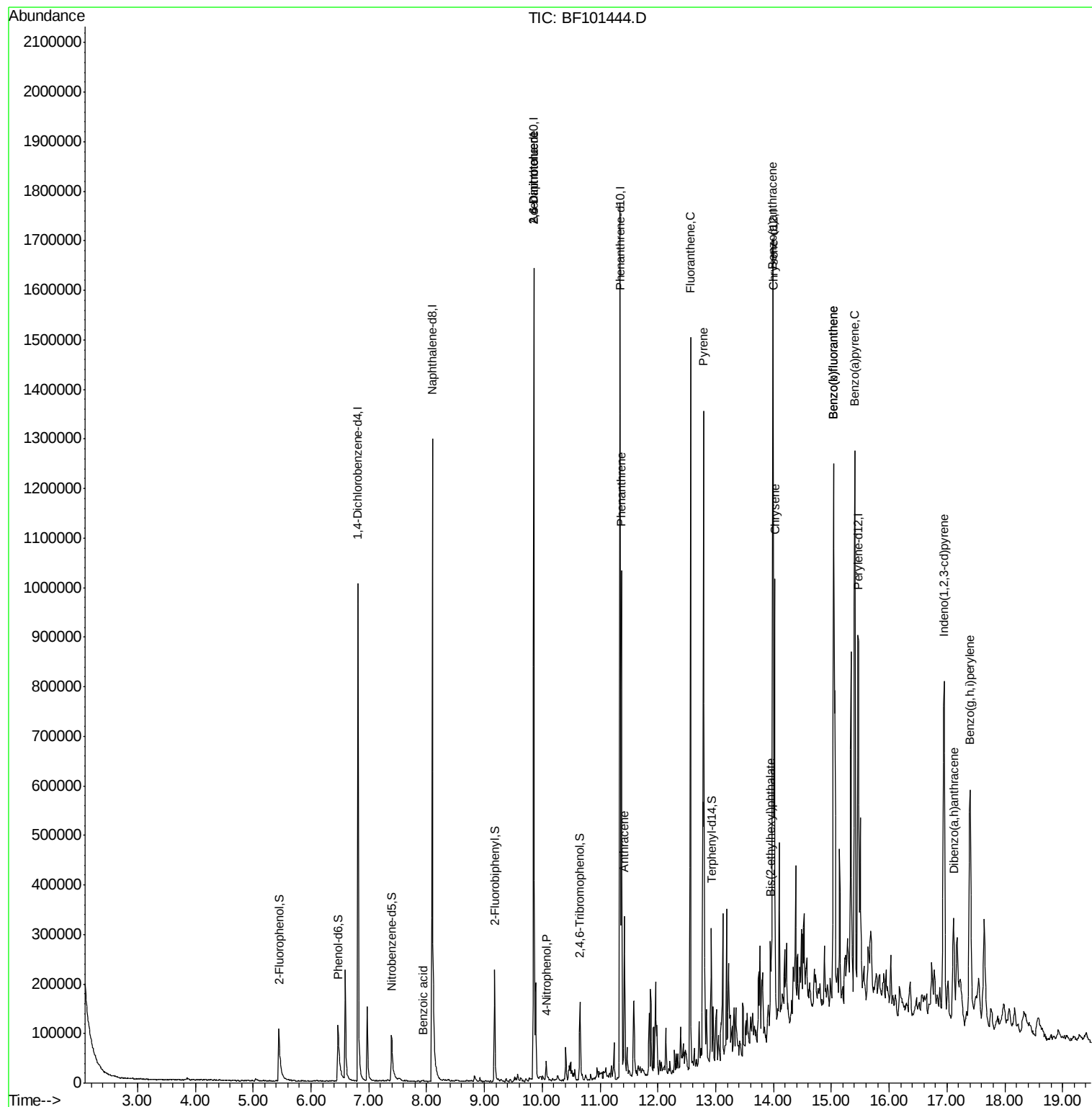
						Qvalue
32) Benzoic acid	7.94	122	329	7.997	ng	# 1
50) 2,6-Dinitrotoluene	9.85	165	43099	7.760	ng	# 25
55) 4-Nitrophenol	10.07	139	7379	2.444	ng	# 12
56) 2,4-Dinitrotoluene	9.85	165	43099	6.887	ng	# 23
70) Phenanthrene	11.37	178	370405	11.007	ng	98
71) Anthracene	11.42	178	132803	3.863	ng	99
74) Fluoranthene	12.56	202	600692	17.005	ng	97
77) Pyrene	12.79	202	571121	19.966	ng	99
80) Benzo(a)anthracene	13.98	228	425860	16.921	ng	98
82) Chrysene	14.02	228	362845	15.270	ng	97
83) Bis(2-ethylhexyl)phthalate	13.95	149	57834	3.528	ng	97
85) Indeno(1,2,3-cd)pyrene	16.95	276	418239	19.765	ng	# 91
87) Benzo(b)fluoranthene	15.04	252	839057	37.515	ng	98
88) Benzo(k)fluoranthene	15.04	252	839057	38.585	ng	99
89) Benzo(a)pyrene	15.40	252	558307	27.079	ng	96
90) Dibenzo(a,h)anthracene	17.12	278	120899	6.830	ng	97
91) Benzo(a,h,i)perylene	17.40	276	383722	21.891	ng	94

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

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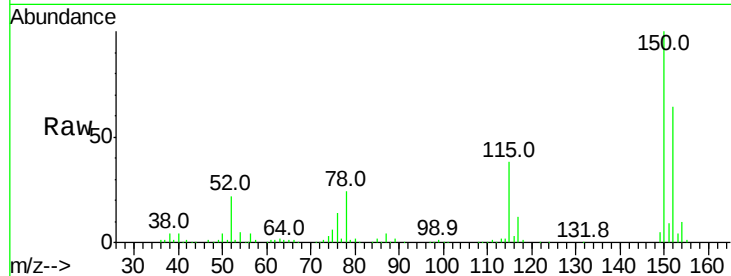


#1

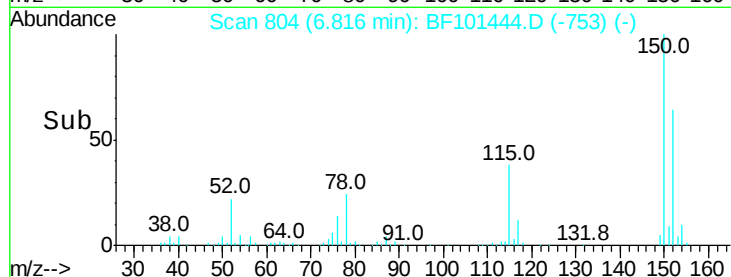
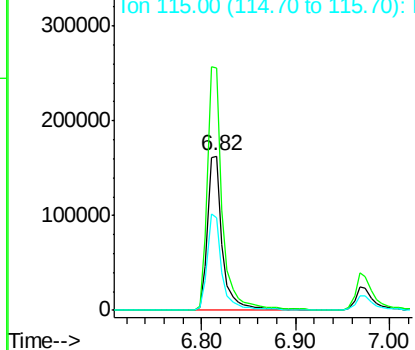
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.82 min Scan# 804
Delta R.T. 0.00 min
Lab File: BF101444.D
Acq: 15 Dec 2017 15:51

Instrument :
BNA_F
ClientSampleId :

Tot Ion:152 Resp: 184740
Ion Ratio Lower Upper
152 100
150 157.1 124.6 186.8
115 60.2 50.1 75.1



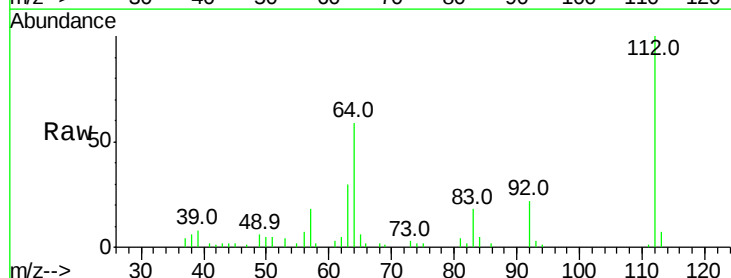
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



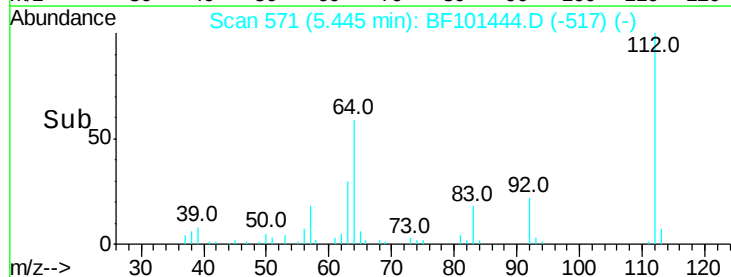
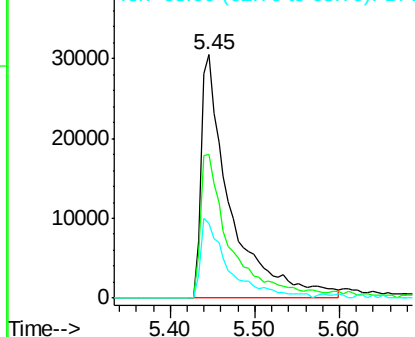
#5

2-Fluorophenol
Concen: 5.897 ng
RT: 5.45 min Scan# 571
Delta R.T. 0.02 min
Lab File: BF101444.D
Acq: 15 Dec 2017 15:51

Tgt Ion:112 Resp: 73136
Ion Ratio Lower Upper
112 100
64 59.0 47.9 71.9
63 30.5 23.7 35.5



Abundance Ion 112.00 (111.70 to 112.70): E
Ion 64.00 (63.70 to 64.70): BF1
Ion 63.00 (62.70 to 63.70): BF1





#7

Phenol-d6

Concen: 6.389 ng

RT: 6.46 min Scan# 744

Delta R.T. 0.01 min

Lab File: BF101444.D

Acq: 15 Dec 2017 15:51

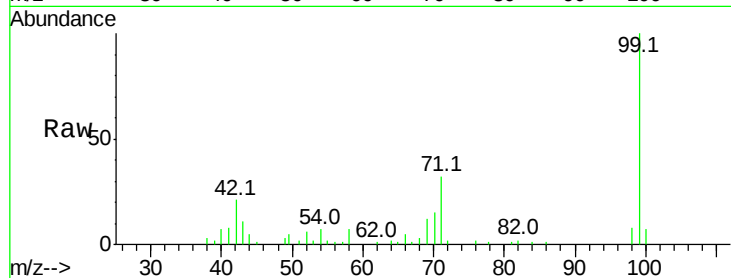
Instrument :

BNA_F

ClientSampleId :

Tot Ion: 99 Resp: 98617

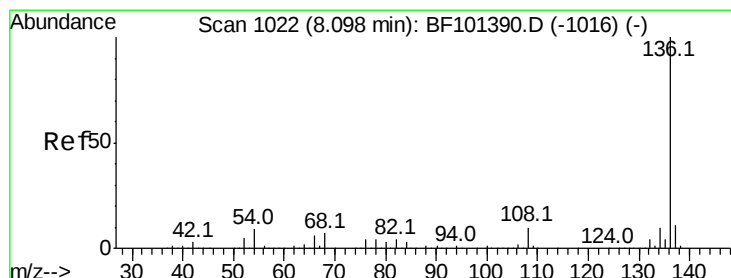
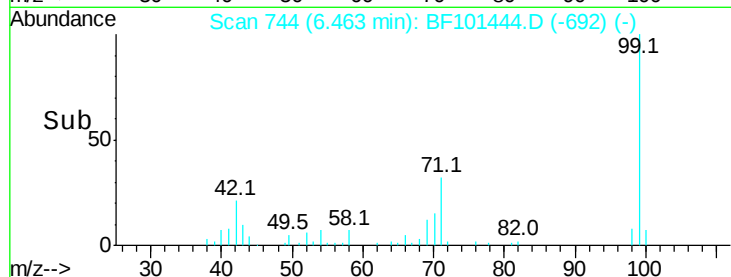
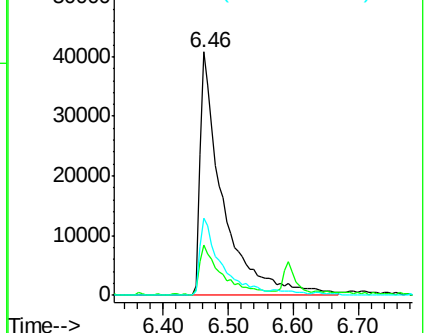
Ion	Ratio	Lower	Upper
99	100		
42	20.7	14.5	21.7
71	31.7	25.4	38.0



Abundance Ion 99.00 (98.70 to 99.70): BF1

Ion 42.00 (41.70 to 42.70): BF1

Ion 71.00 (70.70 to 71.70): BF1



#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.10 min Scan# 1022

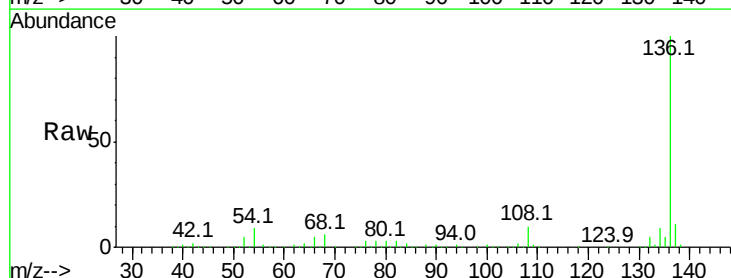
Delta R.T. 0.00 min

Lab File: BF101444.D

Acq: 15 Dec 2017 15:51

Tgt Ion: 136 Resp: 774072

Ion	Ratio	Lower	Upper
136	100		
137	10.7	8.9	13.3
54	8.5	6.6	9.8
68	6.3	5.0	7.4

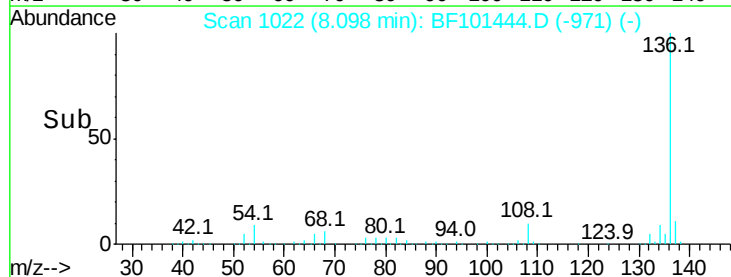
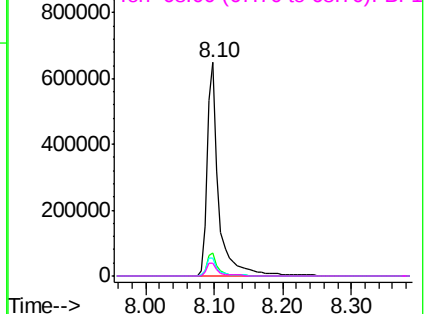


Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BF1

Ion 68.00 (67.70 to 68.70): BF1

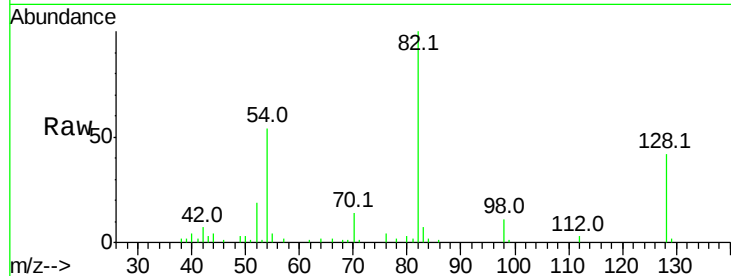




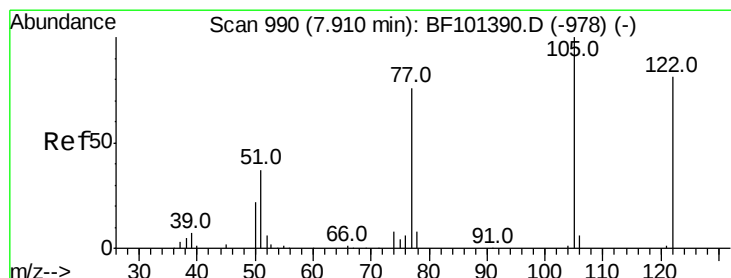
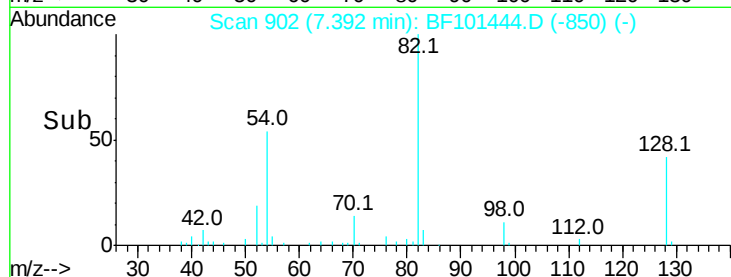
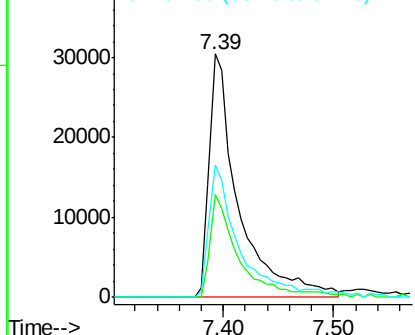
#23
Nitrobenzene-d5
Concen: 4.009 ng
RT: 7.39 min Scan# 902
Delta R.T. 0.01 min
Lab File: BF101444.D
Acq: 15 Dec 2017 15:51

Instrument :
BNA_F
ClientSampleId :

Tot Ion: 82 Resp: 55749
Ion Ratio Lower Upper
82 100
128 42.2 36.1 54.1
54 54.2 41.4 62.2

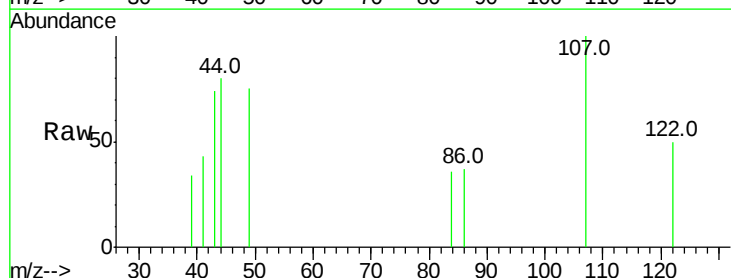


Abundance Ion 82.00 (81.70 to 82.70): BF1
Ion 128.00 (127.70 to 128.70): BF1
Ion 54.00 (53.70 to 54.70): BF1

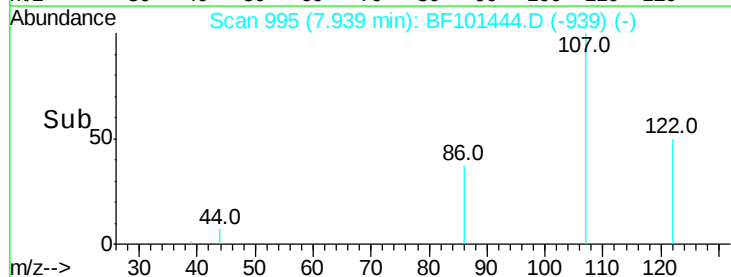
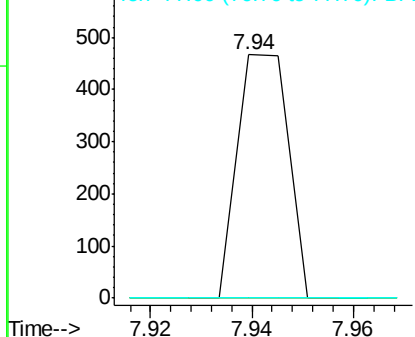


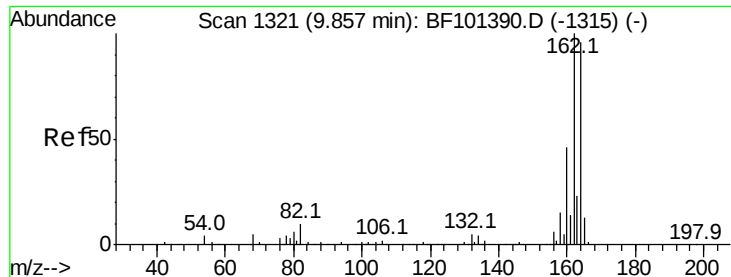
#32
Benzoic acid
Concen: 7.997 ng
RT: 7.94 min Scan# 995
Delta R.T. 0.03 min
Lab File: BF101444.D
Acq: 15 Dec 2017 15:51

Tgt Ion: 122 Resp: 329
Ion Ratio Lower Upper
122 100
105 0.0 101.1 141.1#
77 0.0 70.7 110.7#



Abundance Ion 122.00 (121.70 to 122.70): BF1
Ion 105.00 (104.70 to 105.70): BF1
Ion 77.00 (76.70 to 77.70): BF1





#38

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.85 min Scan# 1320

Delta R.T. -0.01 min

Lab File: BF101444.D

Acq: 15 Dec 2017 15:51

Instrument :

BNA_F

ClientSampleId :

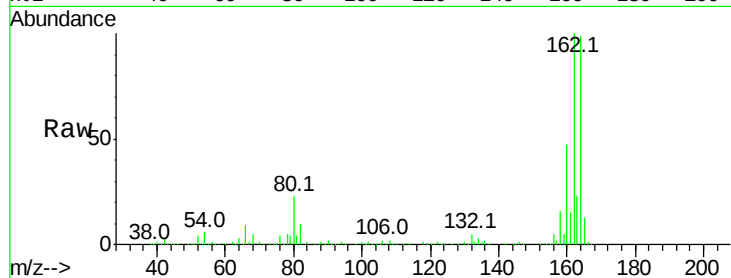
Tot Ion:164 Resp: 339753

Ion Ratio Lower Upper

164 100

162 100.8 86.1 129.1

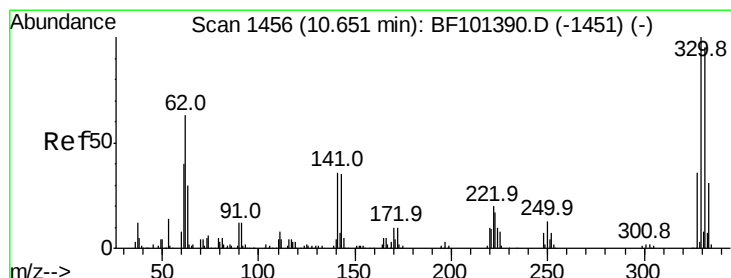
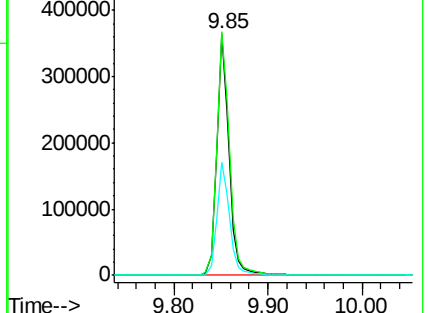
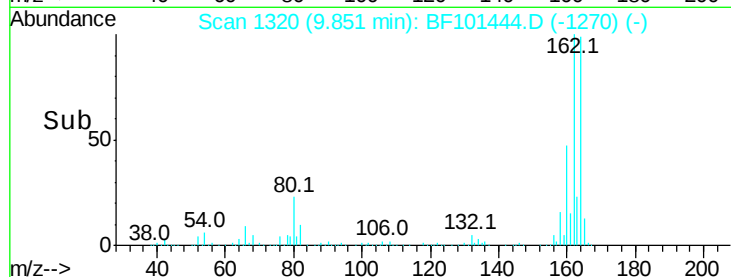
160 46.9 38.3 57.5



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



#41

2,4,6-Tribromophenol

Concen: 5.486 ng

RT: 10.65 min Scan# 1456

Delta R.T. 0.00 min

Lab File: BF101444.D

Acq: 15 Dec 2017 15:51

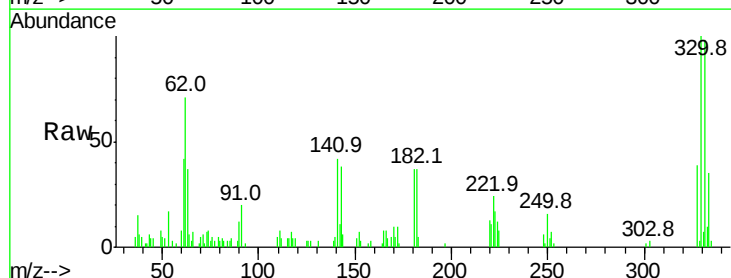
Tgt Ion:330 Resp: 17961

Ion Ratio Lower Upper

330 100

332 96.1 77.0 115.6

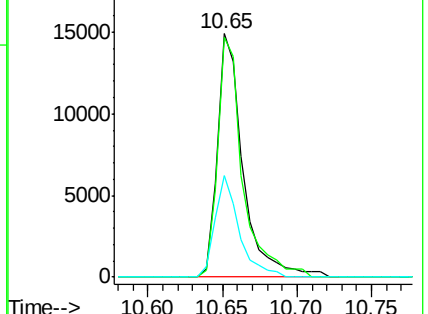
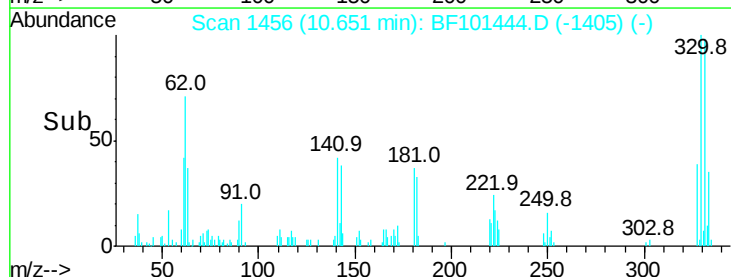
141 38.8 29.9 44.9



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

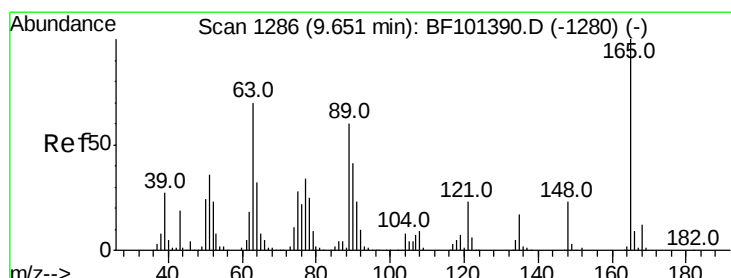
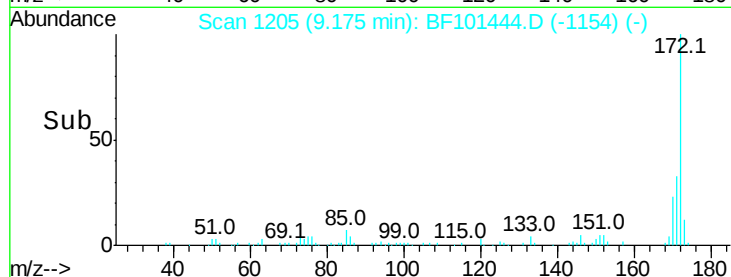
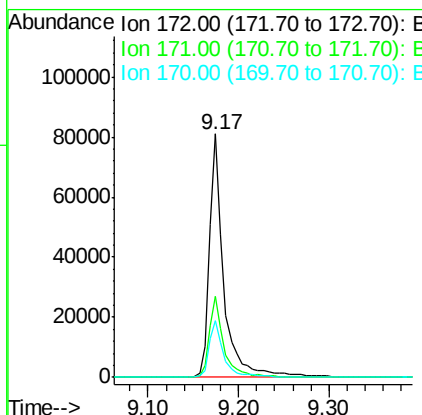
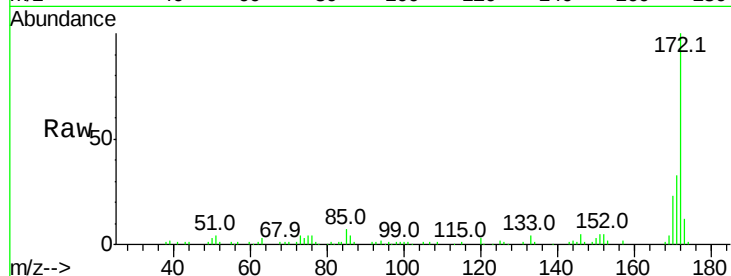




#44
 2-Fluorobiphenyl
 Concen: 4.150 ng
 RT: 9.17 min Scan# 1205
 Delta R.T. 0.00 min
 Lab File: BF101444.D
 Acq: 15 Dec 2017 15:51

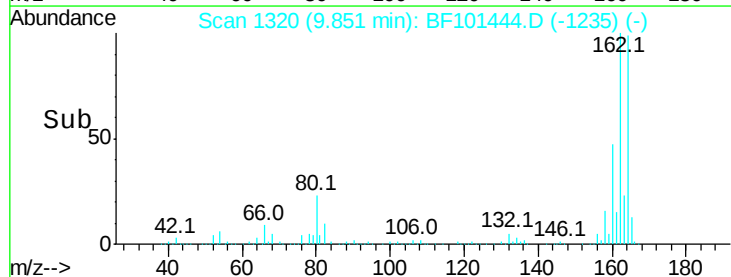
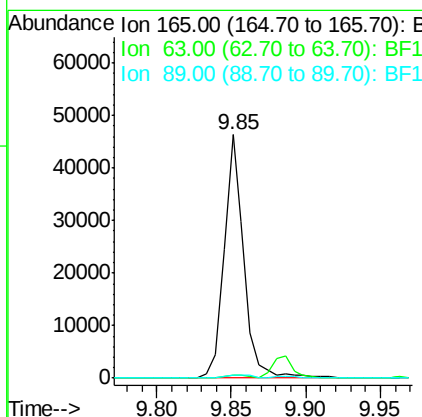
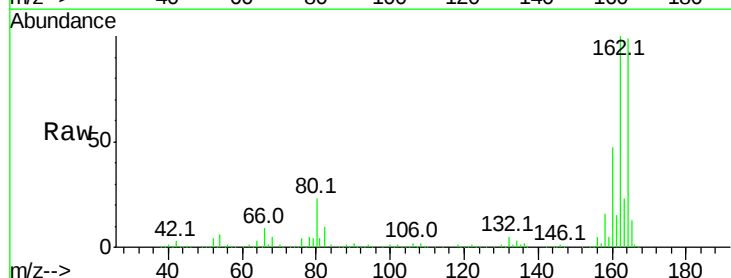
Instrument :
 BNA_F
 ClientSampleId :

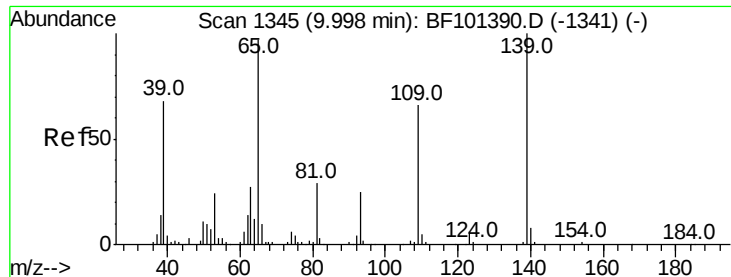
Tot Ion	Ratio	Lower	Upper
172	100		
171	33.2	29.7	44.5
170	23.3	19.6	29.4



#50
 2,6-Dinitrotoluene
 Concen: 7.760 ng
 RT: 9.85 min Scan# 1320
 Delta R.T. 0.20 min
 Lab File: BF101444.D
 Acq: 15 Dec 2017 15:51

Tgt Ion	Ratio	Lower	Upper
165	100		
63	1.1	44.7	67.1#
89	1.3	44.0	66.0#





#55

4-Nitrophenol

Concen: 2.444 ng

RT: 10.07 min Scan# 1357

Delta R.T. 0.07 min

Lab File: BF101444.D

Acq: 15 Dec 2017 15:51

Instrument :

BNA_F

ClientSampleId :

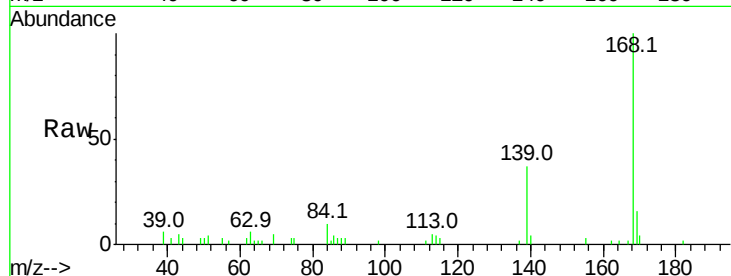
Tot Ion:139 Resp: 7379

Ion Ratio Lower Upper

139 100

109 0.0 48.4 88.4#

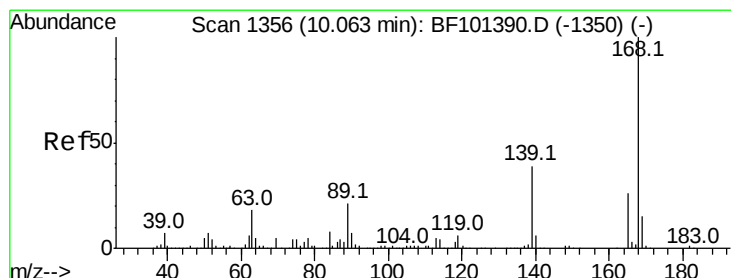
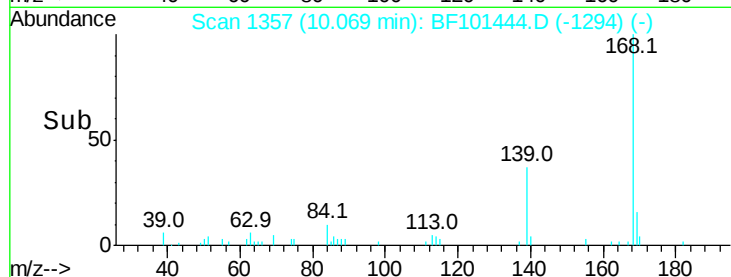
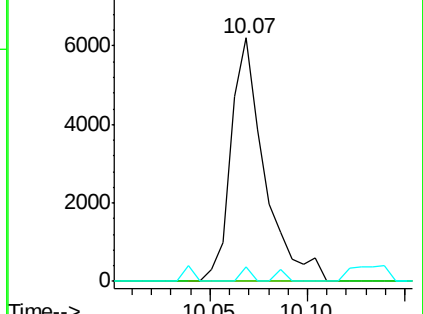
65 6.1 72.6 112.6#



Abundance Ion 139.00 (138.70 to 139.70): E

Ion 109.00 (108.70 to 109.70): E

Ion 65.00 (64.70 to 65.70): BF1



#56

2,4-Dinitrotoluene

Concen: 6.887 ng

RT: 9.85 min Scan# 1320

Delta R.T. -0.21 min

Lab File: BF101444.D

Acq: 15 Dec 2017 15:51

Tgt Ion:165 Resp: 43099

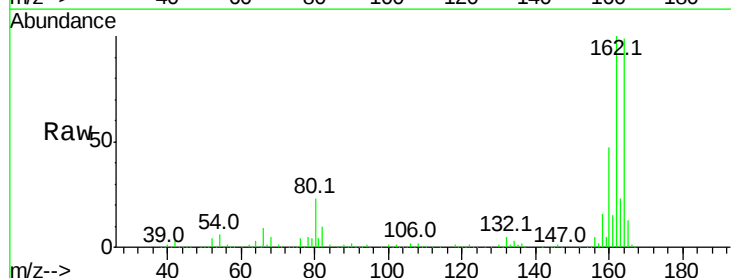
Ion Ratio Lower Upper

165 100

63 1.1 36.4 54.6#

89 1.3 57.8 86.6#

182 0.0 1.6 2.4#

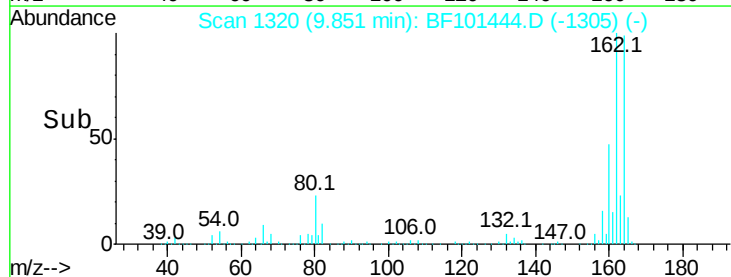
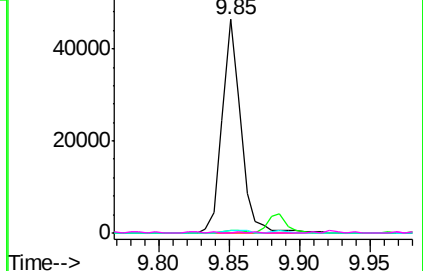


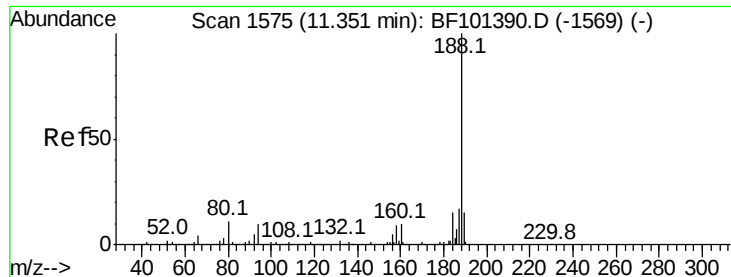
Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BF1

Ion 89.00 (88.70 to 89.70): BF1

Ion 182.00 (181.70 to 182.70): E

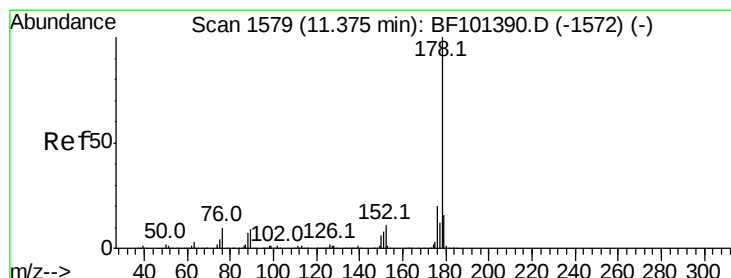
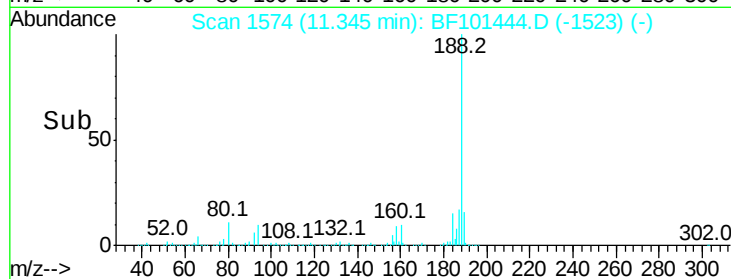
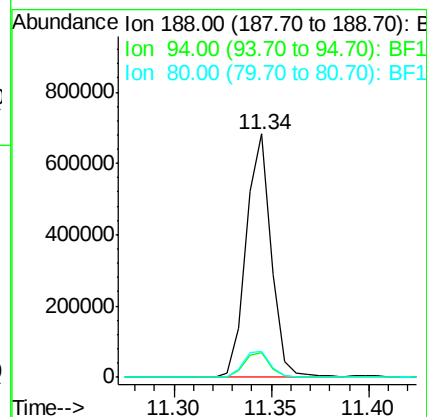
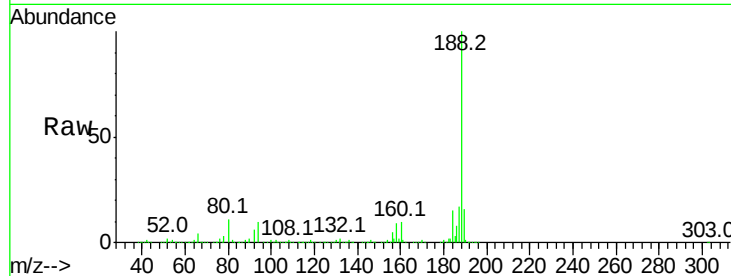




#63
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.34 min Scan# 1574
Delta R.T. 0.00 min
Lab File: BF101444.D
Acq: 15 Dec 2017 15:51

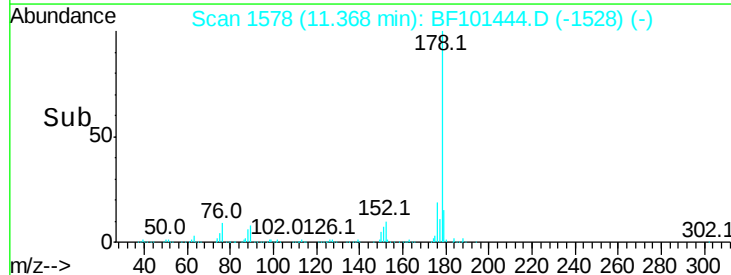
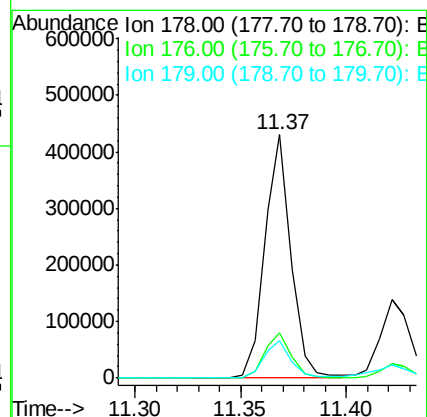
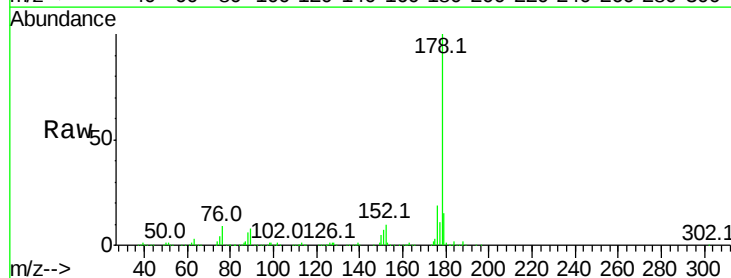
Instrument :
BNA_F
ClientSampleId :

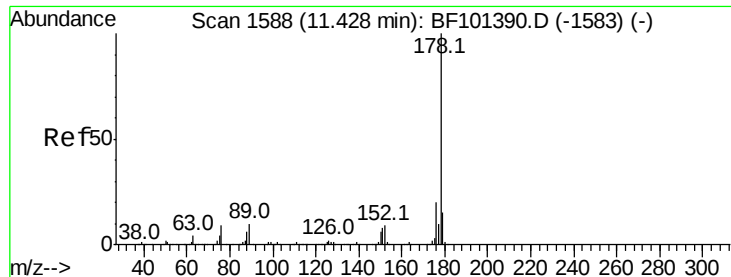
Tot Ion:188 Resp: 605147
Ion Ratio Lower Upper
188 100
94 10.3 8.5 12.7
80 10.7 9.2 13.8



#70
Phenanthrene
Concen: 11.007 ng
RT: 11.37 min Scan# 1578
Delta R.T. -0.01 min
Lab File: BF101444.D
Acq: 15 Dec 2017 15:51

Tgt Ion:178 Resp: 370405
Ion Ratio Lower Upper
178 100
176 18.8 15.8 23.8
179 15.3 13.0 19.6

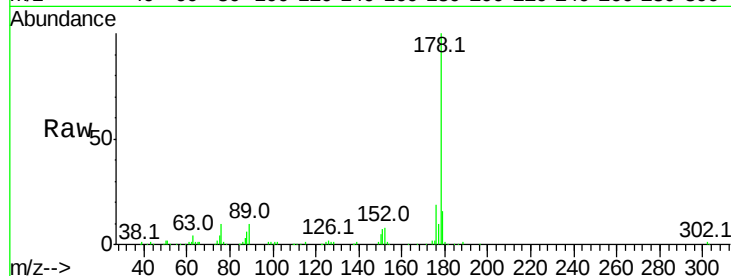




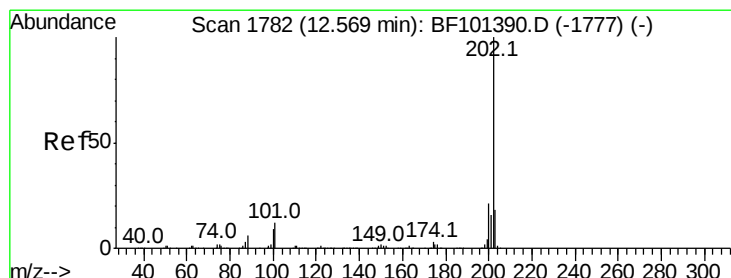
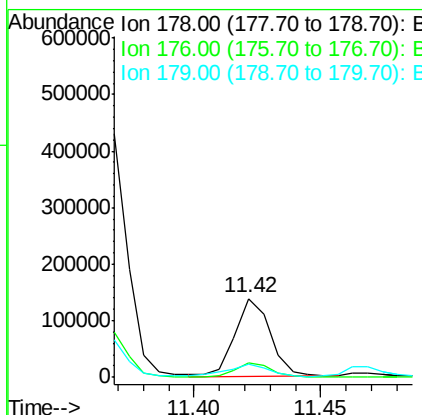
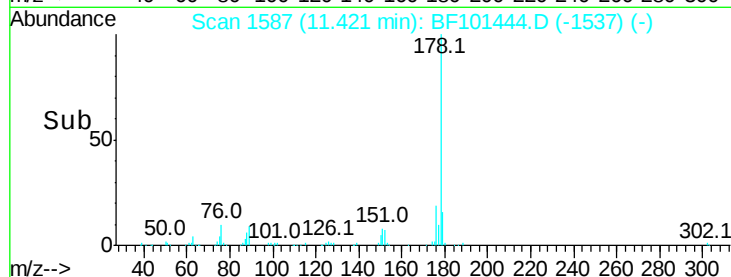
#71
 Anthracene
 Concen: 3.863 ng
 RT: 11.42 min Scan# 1587
 Delta R.T. -0.01 min
 Lab File: BF101444.D
 Acq: 15 Dec 2017 15:51

Instrument :
 BNA_F
 ClientSampled :

Tot Ion	Ratio	Lower	Upper
178	100		
176	18.9	15.4	23.2
179	16.2	12.6	19.0

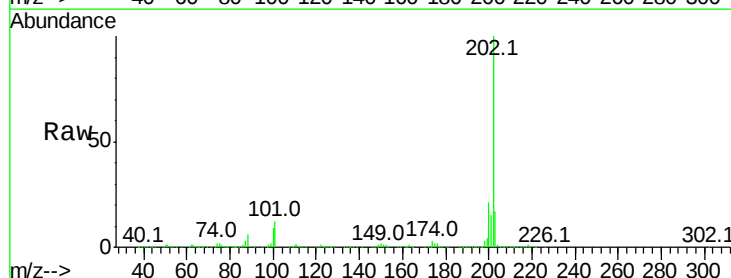


Abundance Ion 178.00 (177.70 to 178.70): E
 Ion 176.00 (175.70 to 176.70): E
 Ion 179.00 (178.70 to 179.70): E

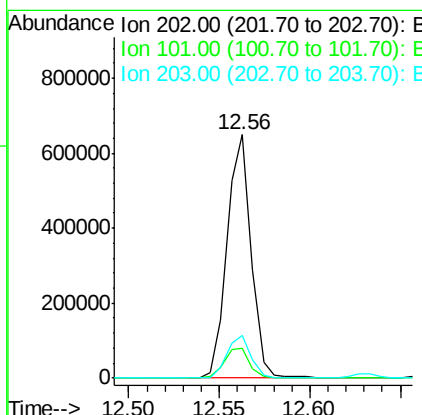
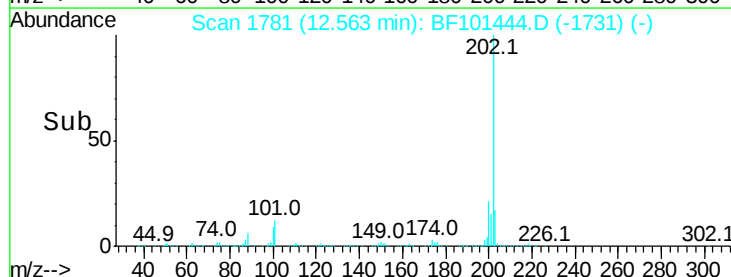


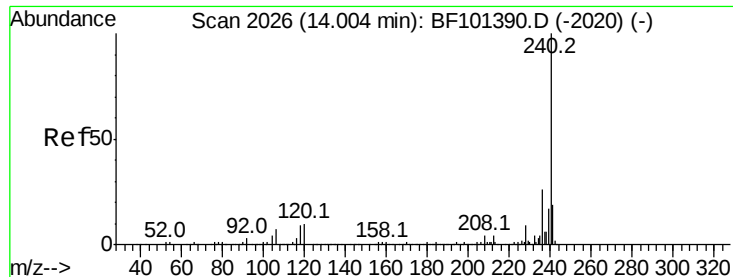
#74
 Fluoranthene
 Concen: 17.005 ng
 RT: 12.56 min Scan# 1781
 Delta R.T. -0.01 min
 Lab File: BF101444.D
 Acq: 15 Dec 2017 15:51

Tgt Ion	Ratio	Lower	Upper
202	100		
101	12.1	0.0	34.1
203	17.4	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: 13.99 min Scan# 2024

Delta R.T. -0.01 min

Lab File: BF101444.D

Acq: 15 Dec 2017 15:51

Instrument :

BNA_F

ClientSampled :

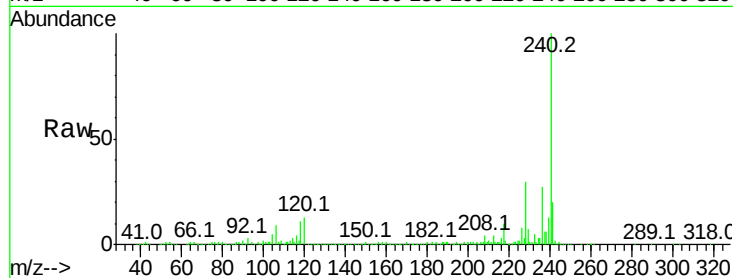
Tot Ion:240 Resp: 381135

Ion Ratio Lower Upper

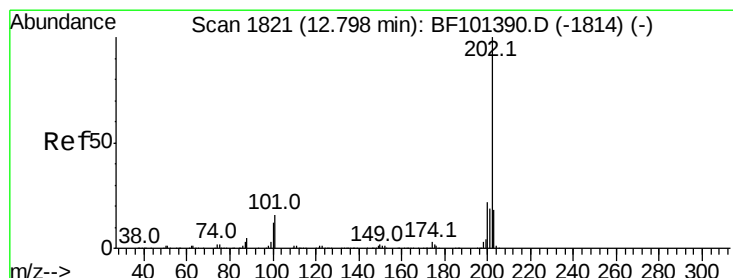
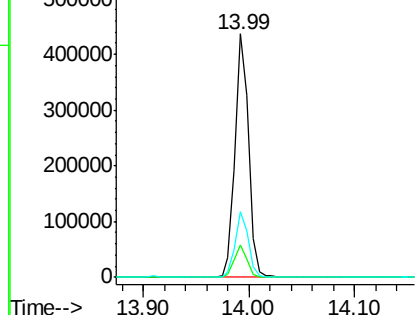
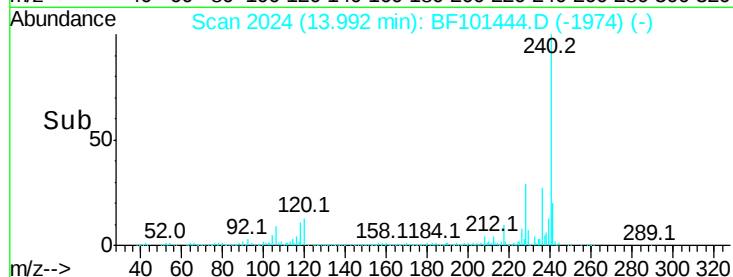
240 100

120 13.4 9.5 14.3

236 26.8 20.7 31.1



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



#77

Pyrene

Concen: 19.966 ng

RT: 12.79 min Scan# 1820

Delta R.T. -0.01 min

Lab File: BF101444.D

Acq: 15 Dec 2017 15:51

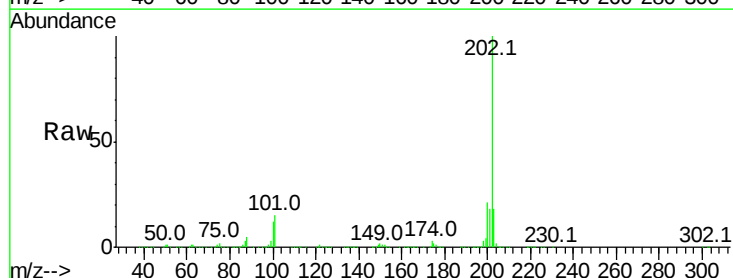
Tgt Ion:202 Resp: 571121

Ion Ratio Lower Upper

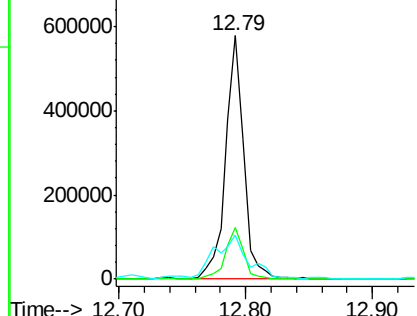
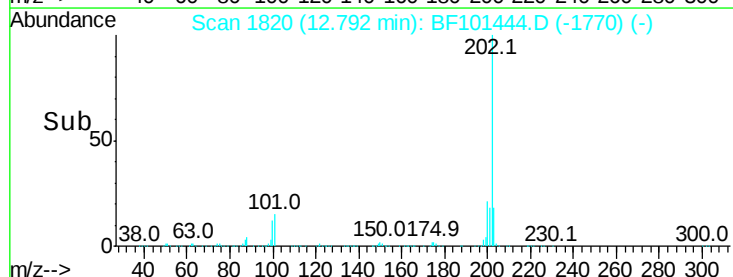
202 100

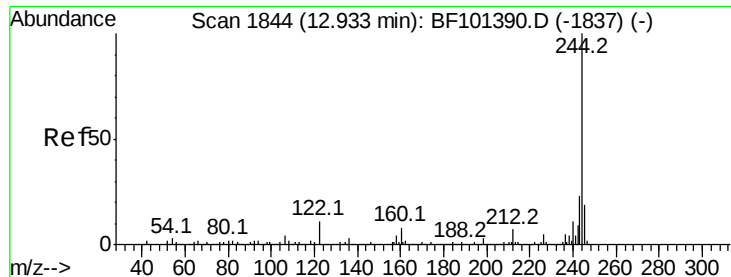
200 21.0 17.4 26.2

203 18.0 14.3 21.5



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: 4.625 ng

RT: 12.92 min Scan# 1842

Delta R.T. -0.01 min

Lab File: BF101444.D

Acq: 15 Dec 2017 15:51

Instrument :

BNA_F

ClientSampled :

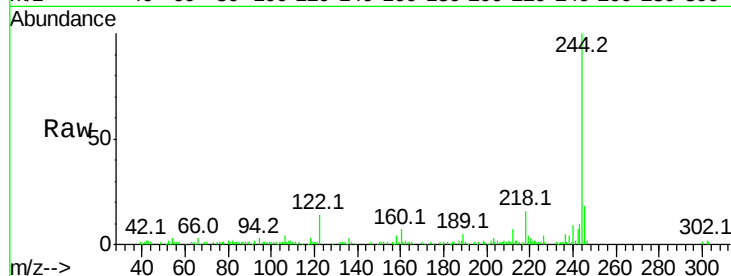
Tot Ion:244 Resp: 73113

Ion Ratio Lower Upper

244 100

212 7.1 5.4 8.0

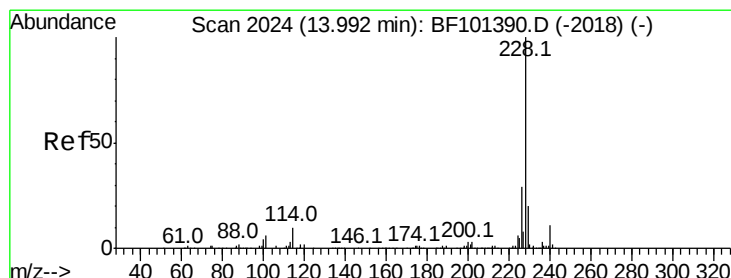
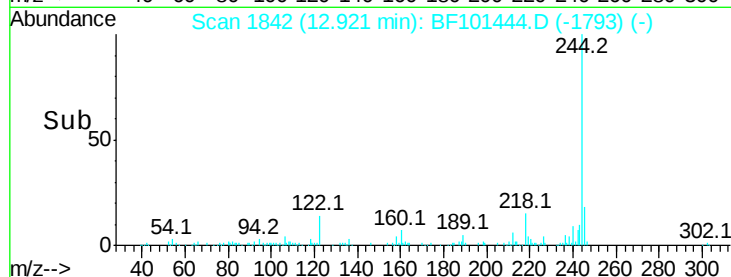
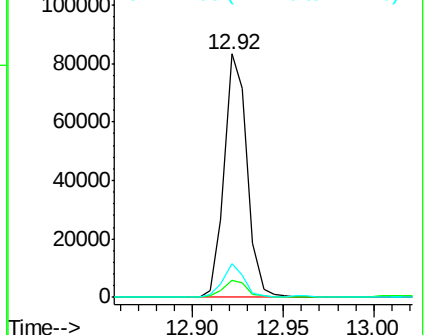
122 14.0 11.0 16.4



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



#80

Benzo(a)anthracene

Concen: 16.921 ng

RT: 13.98 min Scan# 2022

Delta R.T. -0.01 min

Lab File: BF101444.D

Acq: 15 Dec 2017 15:51

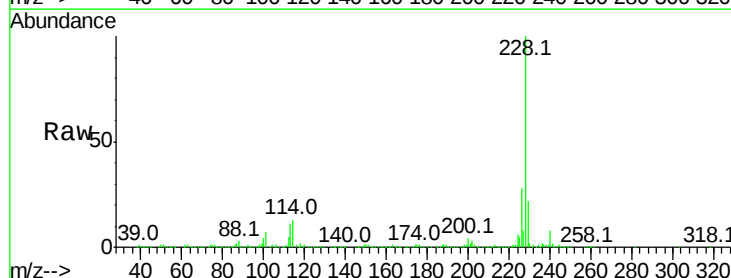
Tgt Ion:228 Resp: 425860

Ion Ratio Lower Upper

228 100

226 27.9 22.6 33.8

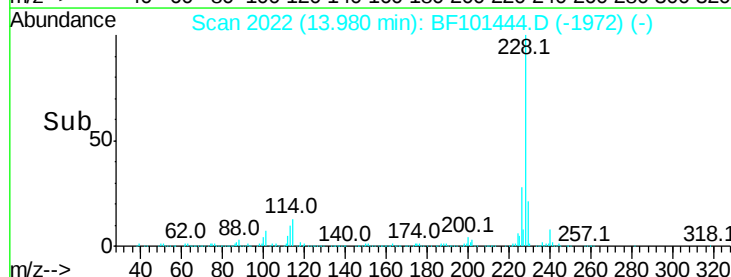
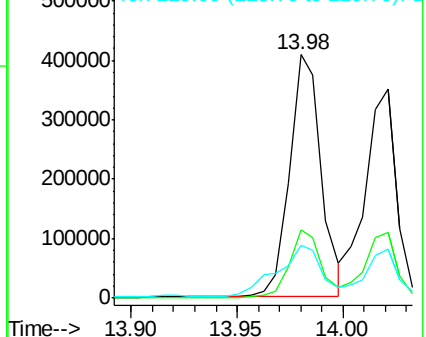
229 22.0 15.8 23.6

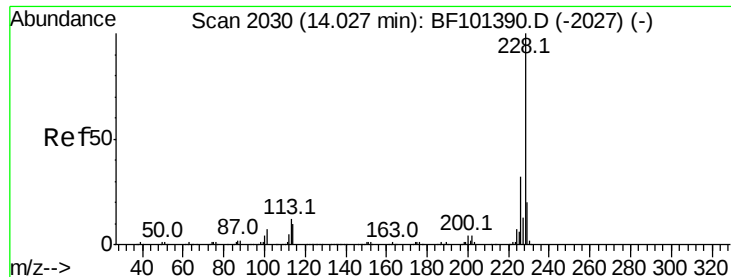


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#82

Chrysene

Concen: 15.270 ng

RT: 14.02 min Scan# 2029

Delta R.T. -0.01 min

Lab File: BF101444.D

Acq: 15 Dec 2017 15:51

Instrument :

BNA_F

ClientSampleId :

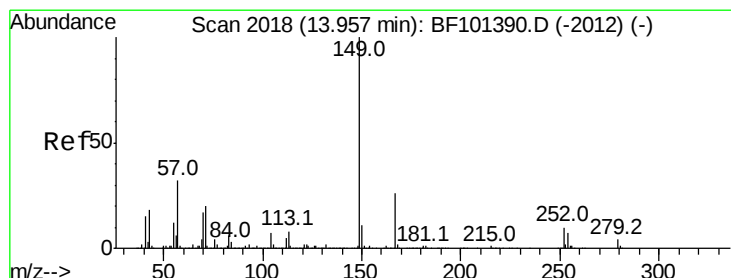
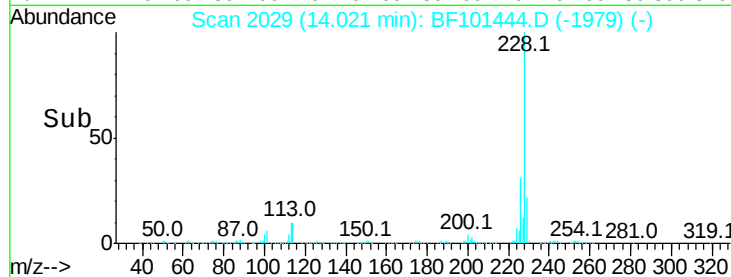
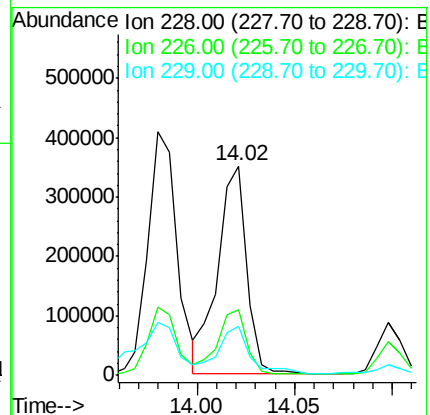
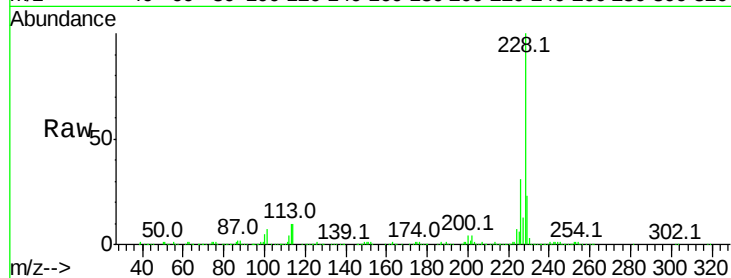
Tot Ion:228 Resp: 362845

Ion Ratio Lower Upper

228 100

226 31.2 25.0 37.6

229 23.4 16.2 24.4



#83

Bis(2-ethylhexyl)phthalate

Concen: 3.528 ng

RT: 13.95 min Scan# 2017

Delta R.T. 0.00 min

Lab File: BF101444.D

Acq: 15 Dec 2017 15:51

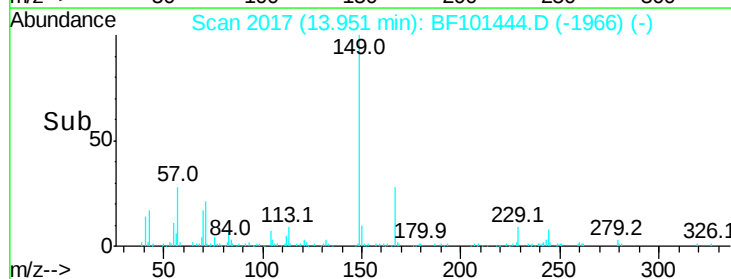
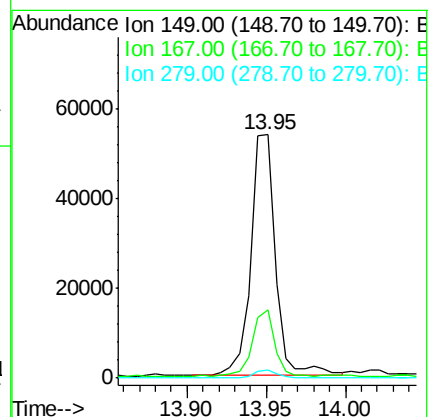
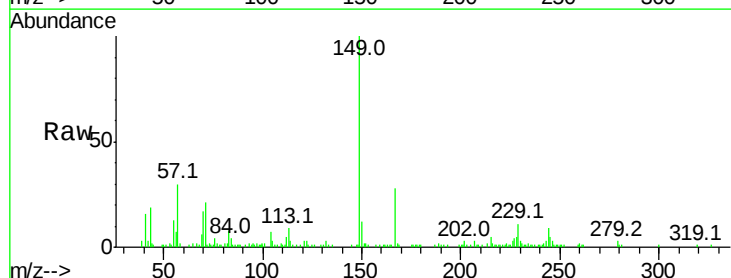
Tgt Ion:149 Resp: 57834

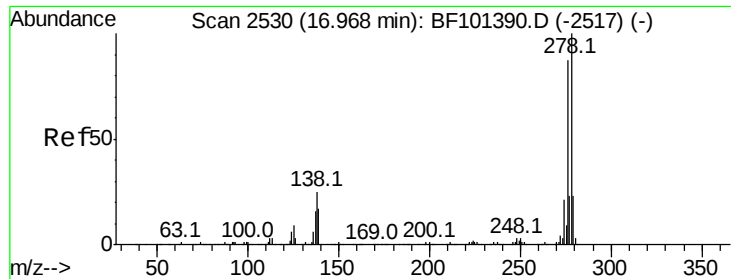
Ion Ratio Lower Upper

149 100

167 28.2 21.3 31.9

279 3.1 3.0 4.4





#85

Indeno(1,2,3-cd)pyrene

Concen: 19.765 ng

RT: 16.95 min Scan# 2527

Delta R.T. -0.02 min

Lab File: BF101444.D

Acq: 15 Dec 2017 15:51

Instrument :

BNA_F

ClientSampleId :

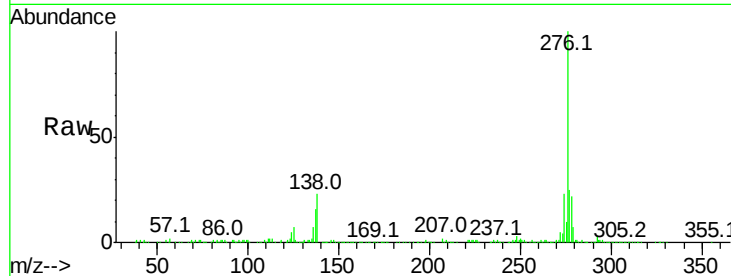
Tot Ion:276 Resp: 418239

Ion Ratio Lower Upper

276 100

138 24.0 25.0 37.6#

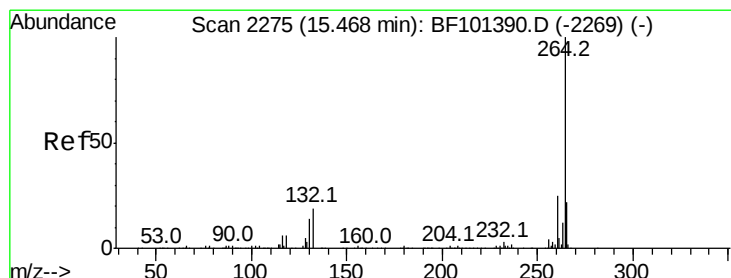
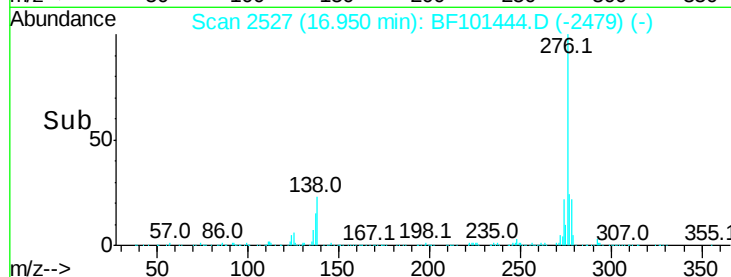
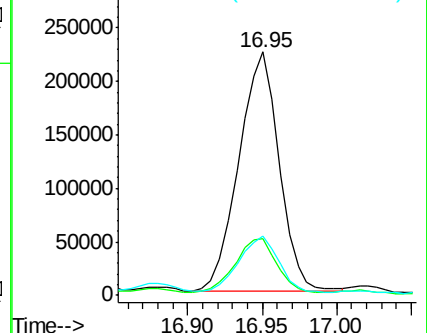
277 23.3 20.1 30.1



Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E



#86

Perylene-d12

Concen: 20.000 ng

RT: 15.46 min Scan# 2274

Delta R.T. -0.01 min

Lab File: BF101444.D

Acq: 15 Dec 2017 15:51

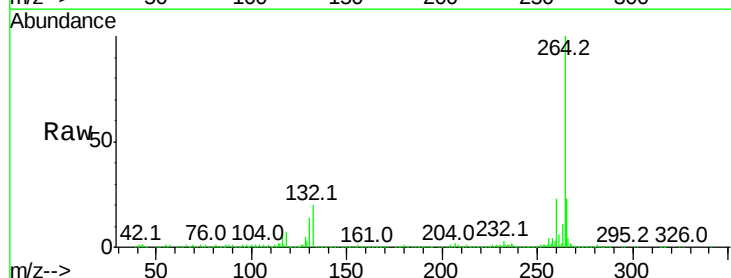
Tgt Ion:264 Resp: 366940

Ion Ratio Lower Upper

264 100

260 23.4 19.2 28.8

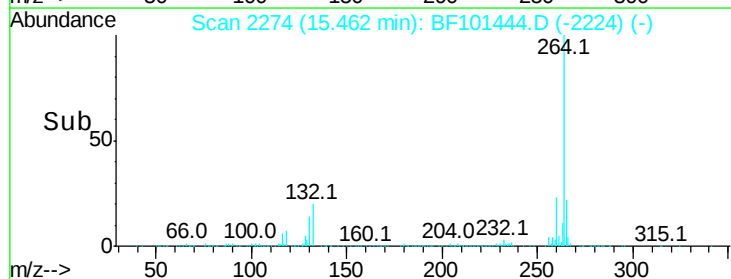
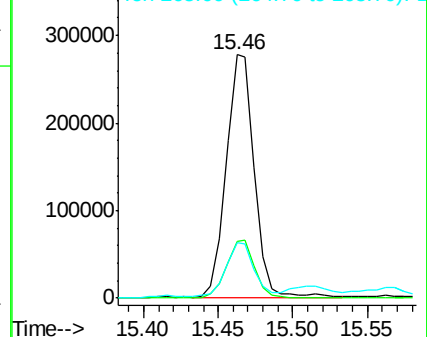
265 22.6 17.5 26.3

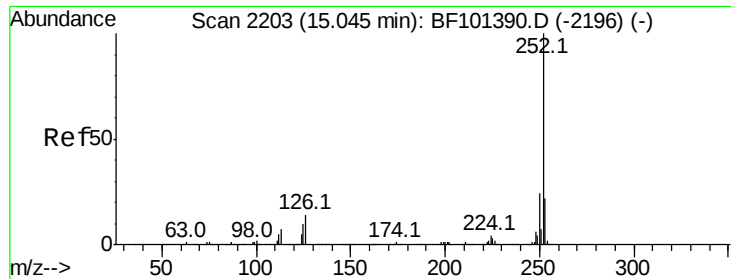


Abundance Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E





#87

Benzo(b)fluoranthene

Concen: 37.515 ng

RT: 15.04 min Scan# 2202

Delta R.T. -0.01 min

Lab File: BF101444.D

Acq: 15 Dec 2017 15:51

Instrument :

BNA_F

ClientSampled :

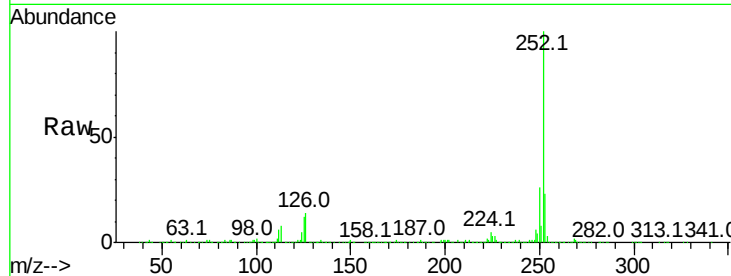
Tot Ion:252 Resp: 839057

Ion Ratio Lower Upper

252 100

253 22.7 17.0 25.6

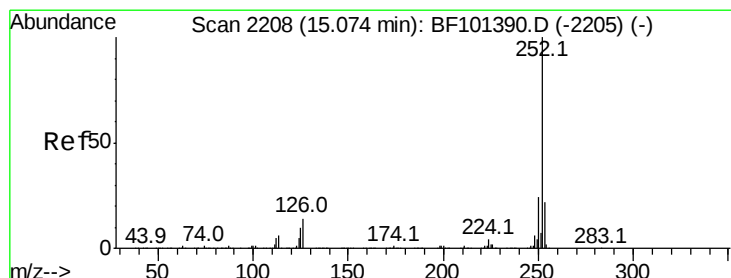
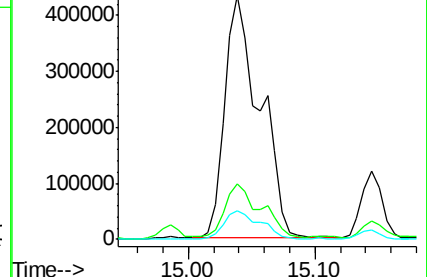
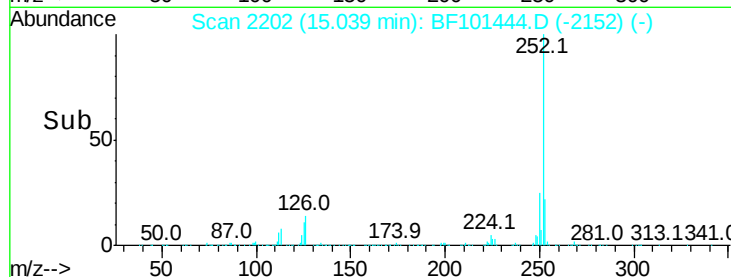
125 11.7 9.0 13.6



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: 38.585 ng

RT: 15.04 min Scan# 2202

Delta R.T. -0.04 min

Lab File: BF101444.D

Acq: 15 Dec 2017 15:51

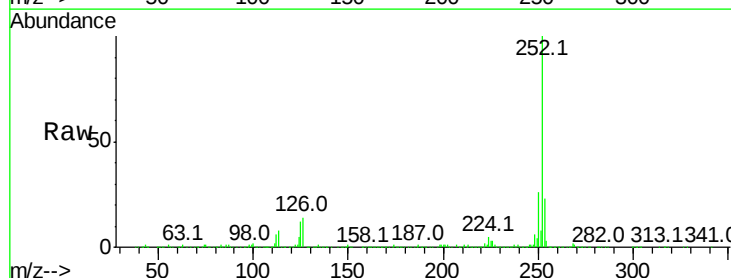
Tgt Ion:252 Resp: 839057

Ion Ratio Lower Upper

252 100

253 22.7 17.9 26.9

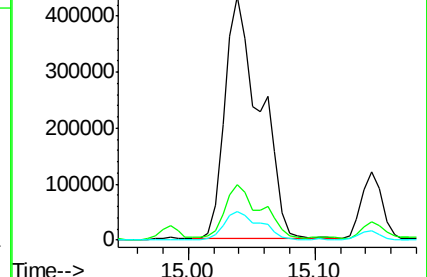
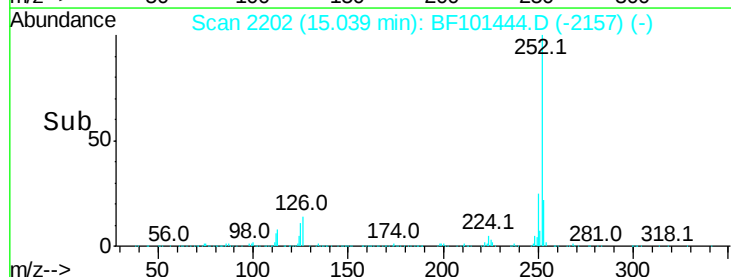
125 11.7 10.2 15.2

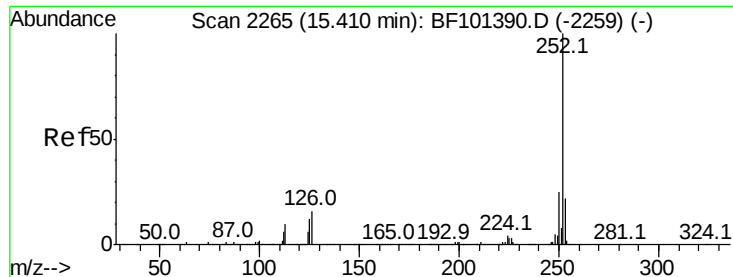


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E

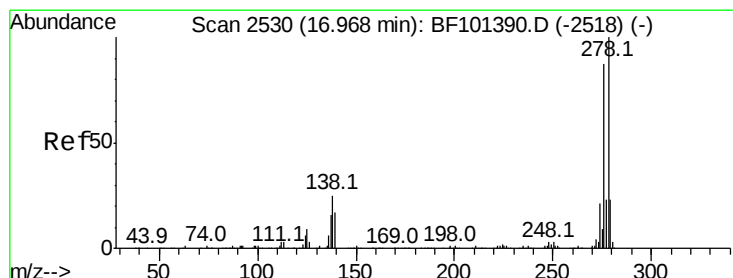
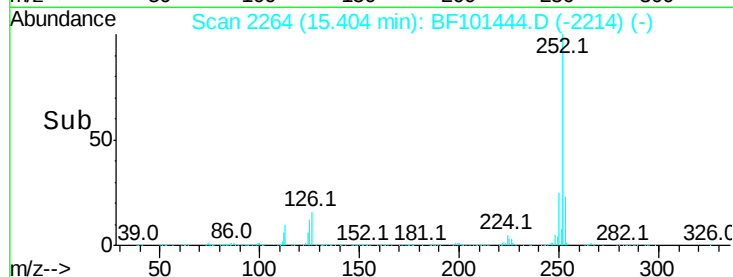
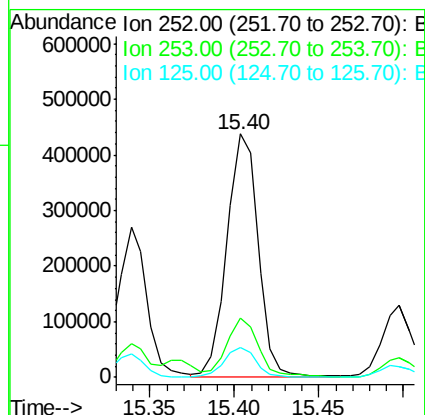
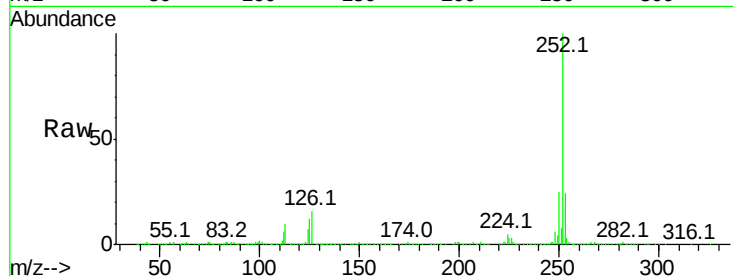




#89
Benzo(a)pyrene
Concen: 27.079 ng
RT: 15.40 min Scan# 2264
Delta R.T. -0.01 min
Lab File: BF101444.D
Acq: 15 Dec 2017 15:51

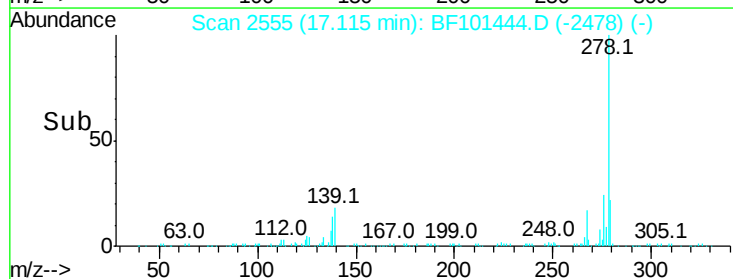
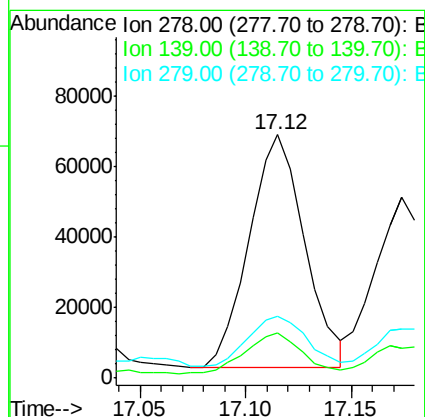
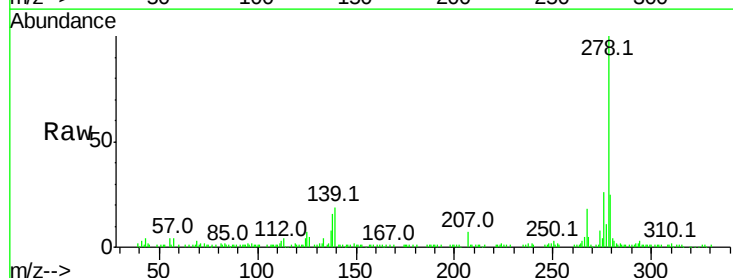
Instrument :
BNA_F
ClientSampleId :

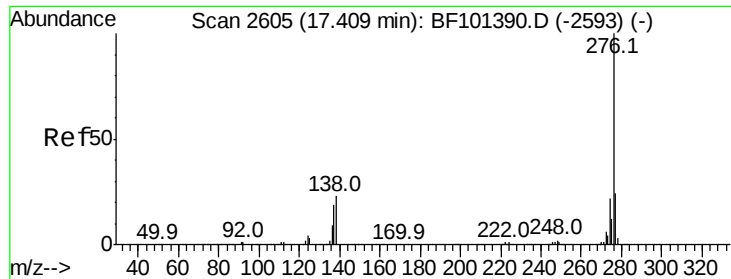
Tot Ion	Ratio	Lower	Upper
252	100		
253	24.2	17.1	25.7
125	12.1	9.8	14.6



#90
Dibenzo(a,h)anthracene
Concen: 6.830 ng
RT: 17.12 min Scan# 2555
Delta R.T. 0.15 min
Lab File: BF101444.D
Acq: 15 Dec 2017 15:51

Tgt Ion	Ratio	Lower	Upper
278	100		
139	18.5	15.9	23.9
279	25.3	19.0	28.4

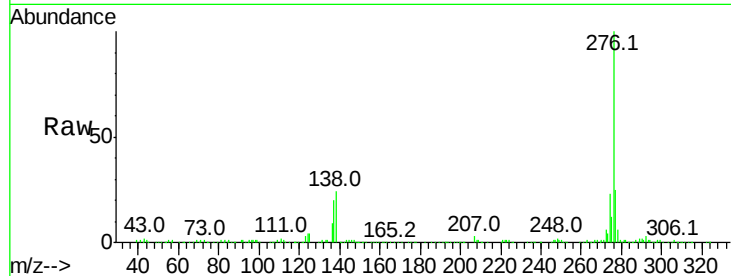




#91
 Benzo(a,h,i)perylene
 Concen: 21.891 ng
 RT: 17.40 min Scan# 2603
 Delta R.T. -0.01 min
 Lab File: BF101444.D
 Acq: 15 Dec 2017 15:51

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
276	100		
277	25.4	17.9	26.9
138	23.9	21.8	32.8



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

