

Data Path : Z:\HPCHEM1\BNA F\DATA\BF041318\
 Data File : BF104504.D
 Acq On : 14 Apr 2018 4:50
 Operator : JU/SJ
 Sample : J2163-01DL 50X
 Misc :
 ALS Vial : 31 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :

Quant Time: Apr 14 05:49:03 2018
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF040618.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Apr 13 17:38:31 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.80	152	119890	20.00	ng	0.00
21) Naphthalene-d8	8.09	136	479524	20.00	ng	0.00
38) Acenaphthene-d10	9.85	164	198526	20.00	ng	-0.01
63) Phenanthrene-d10	11.34	188	294947	20.00	ng	0.00
75) Chrysene-d12	13.98	240	230243	20.00	ng	-0.01
86) Perylene-d12	15.44	264	168161	20.00	ng	-0.01

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) 2-Fluorophenol	5.42	112	15991	2.04	ng	0.00
7) Phenol-d6	6.44	99	20358	2.11	ng	0.00
23) Nitrobenzene-d5	7.36	82	10757	1.46	ng	-0.02
41) 2,4,6-Tribromophenol	10.64	330	3073	1.49	ng	0.00
44) 2-Fluorobiphenyl	9.16	172	23771	1.89	ng	-0.01
78) Terphenyl-d14	12.92	244	18022	1.78	ng	-0.01

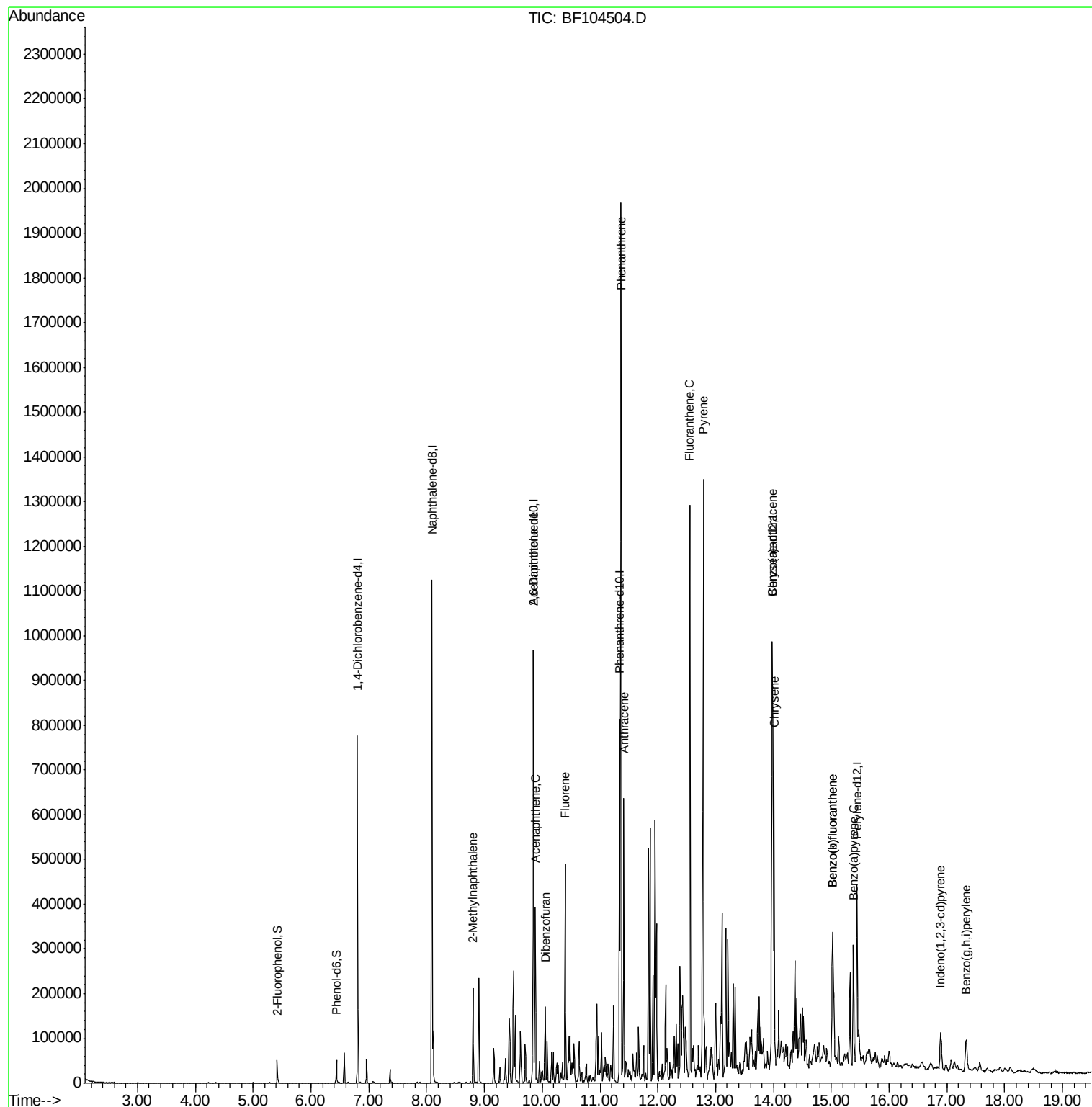
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
9) Benzaldehyde	6.57	77	123	Below Cal		94
37) 2-Methylnaphthalene	8.80	142	51641	3.343 ng		99
50) 2,6-Dinitrotoluene	9.85	165	28514	9.843 ng	#	26
51) Acenaphthene	9.88	154	70773	5.612 ng		98
54) Dibenzofuran	10.05	168	39857	2.268 ng	#	94
57) Fluorene	10.40	166	134560	10.519 ng		99
70) Phenanthrene	11.36	178	675977	41.154 ng		98
71) Anthracene	11.41	178	220372	13.199 ng		98
74) Fluoranthene	12.55	202	484395	28.226 ng		99
76) Benzidine	12.68	184	172	Below Cal	#	66
77) Pyrene	12.79	202	572282	33.533 ng		98
80) Benzo(a)anthracene	13.97	228	246339	17.909 ng		99
82) Chrysene	14.01	228	251031	17.768 ng		98
85) Indeno(1,2,3-cd)pyrene	16.89	276	50862	4.238 ng		95
87) Benzo(b)fluoranthene	15.02	252	212726	20.029 ng		97
88) Benzo(k)fluoranthene	15.02	252	212726	21.215 ng		100
89) Benzo(a)pyrene	15.39	252	125987	13.258 ng		99
91) Benzo(g,h,i)perylene	17.33	276	59588	7.880 ng		96

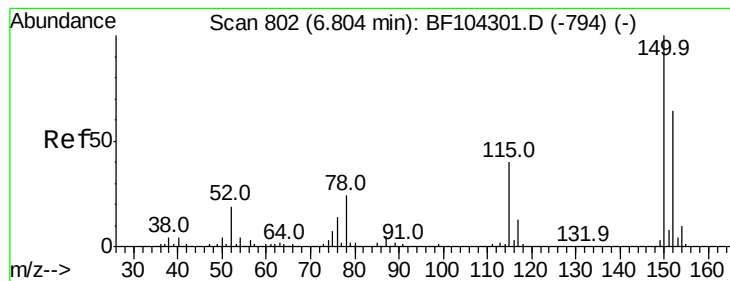
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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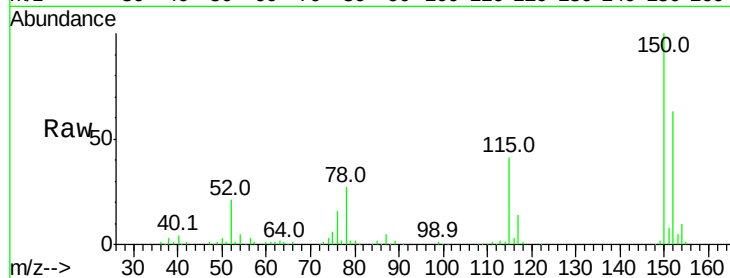


#1

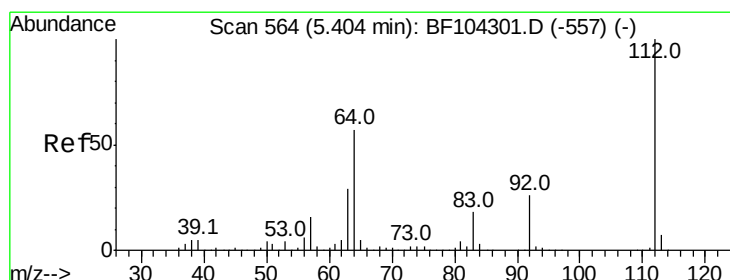
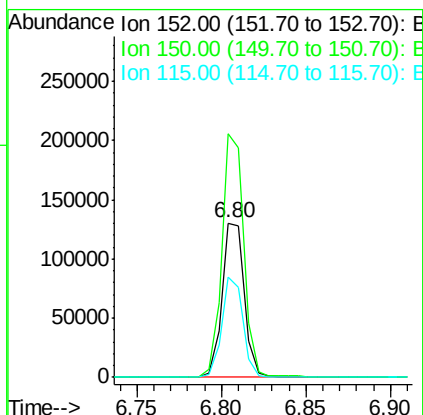
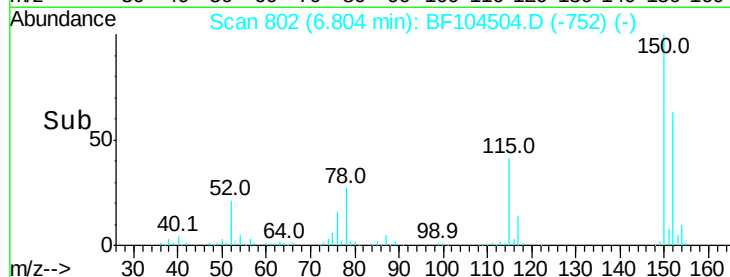
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.80 min Scan# 802
Delta R.T. -0.01 min
Lab File: BF104504.D
Acq: 14 Apr 2018 4:50

Instrument :
BNA_F
ClientSampled :

Tot Ion:152 Resp: 119890
Ion Ratio Lower Upper
152 100
150 157.8 124.6 186.8
115 64.6 50.1 75.1



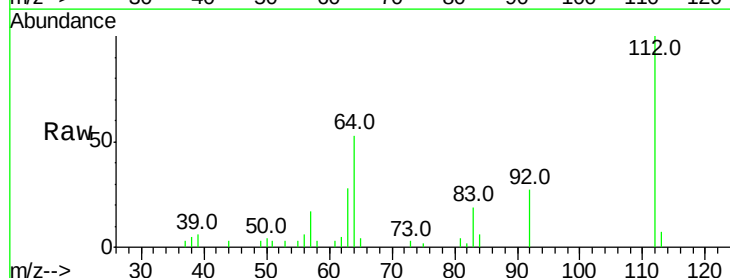
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



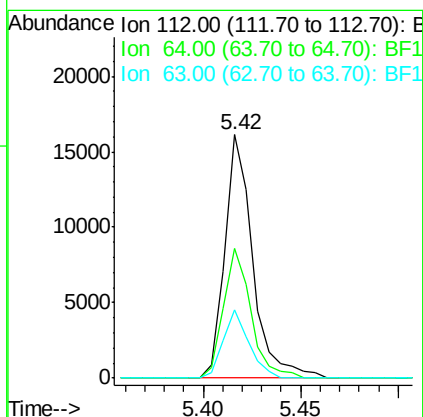
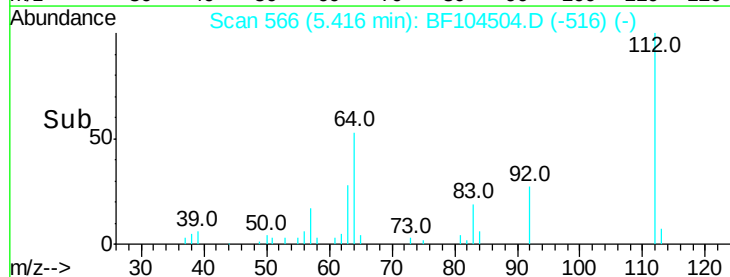
#5

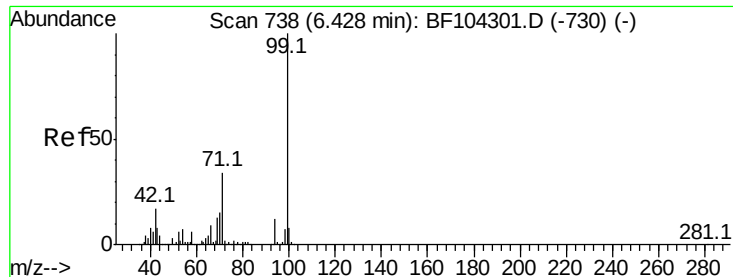
2-Fluorophenol
Concen: 2.039 ng
RT: 5.42 min Scan# 566
Delta R.T. -0.01 min
Lab File: BF104504.D
Acq: 14 Apr 2018 4:50

Tgt Ion:112 Resp: 15991
Ion Ratio Lower Upper
112 100
64 53.4 47.9 71.9
63 27.8 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: 2.113 ng

RT: 6.44 min Scan# 740

Delta R.T. -0.01 min

Lab File: BF104504.D

Acq: 14 Apr 2018 4:50

Instrument :

BNA_F

ClientSampleId :

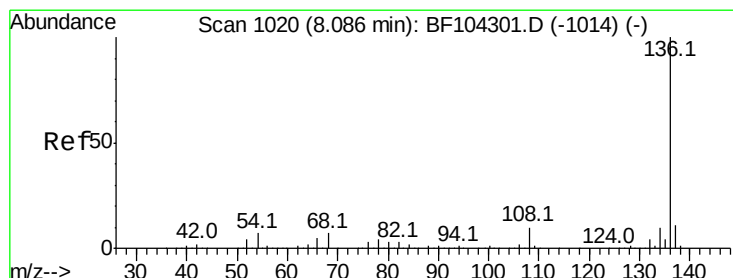
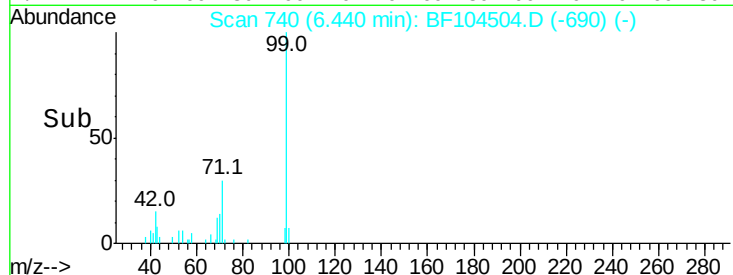
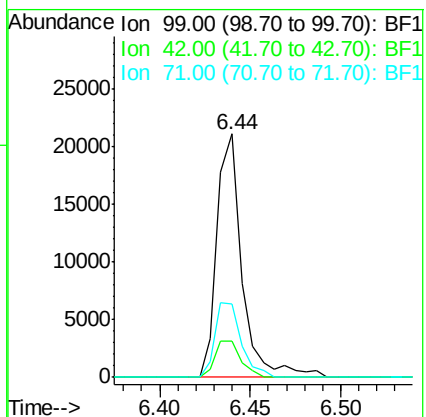
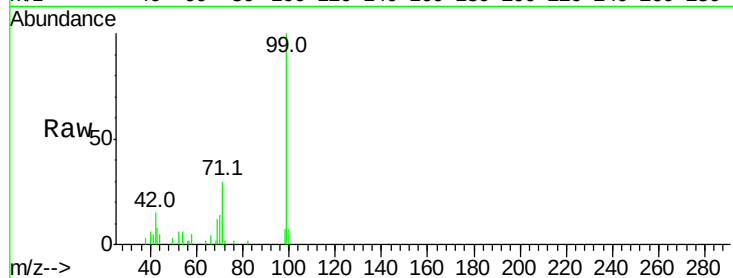
Tot Ion: 99 Resp: 20358

Ion Ratio Lower Upper

99 100

42 14.7 14.5 21.7

71 30.3 25.4 38.0



#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.09 min Scan# 1021

Delta R.T. -0.01 min

Lab File: BF104504.D

Acq: 14 Apr 2018 4:50

Tgt Ion: 136 Resp: 479524

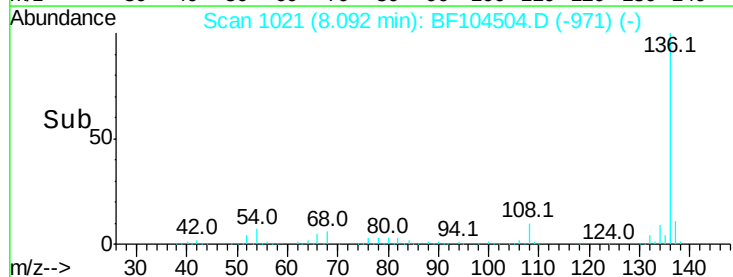
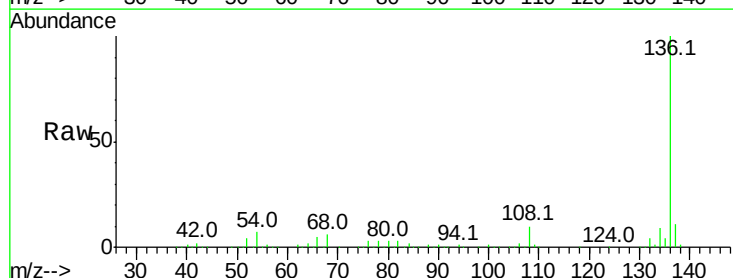
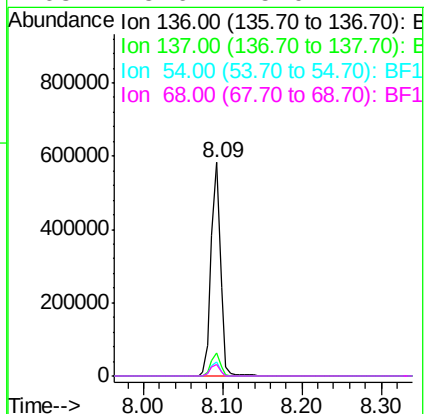
Ion Ratio Lower Upper

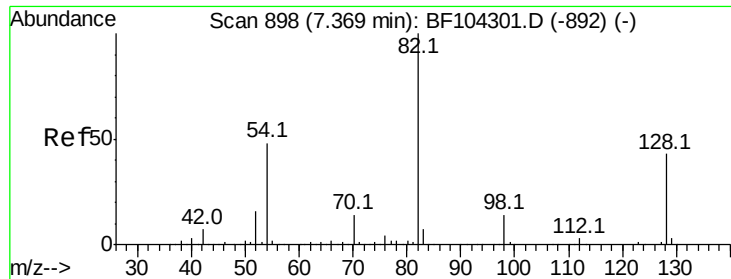
136 100

137 10.8 8.9 13.3

54 6.5 6.6 9.8#

68 5.6 5.0 7.4





#23

Nitrobenzene-d5

Concen: 1.465 ng

RT: 7.36 min Scan# 897

Delta R.T. -0.02 min

Lab File: BF104504.D

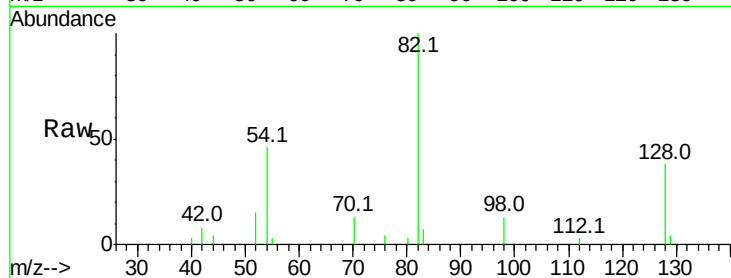
Acq: 14 Apr 2018 4:50

Instrument :

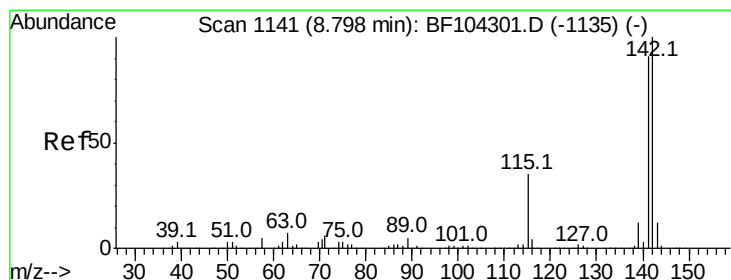
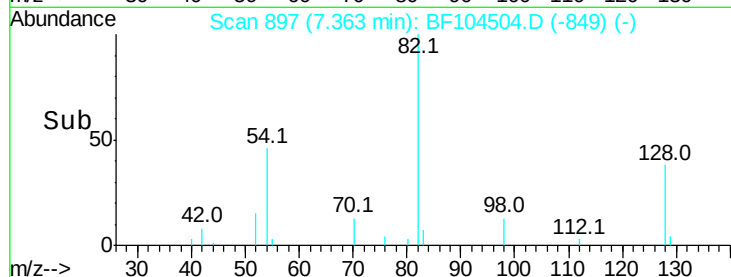
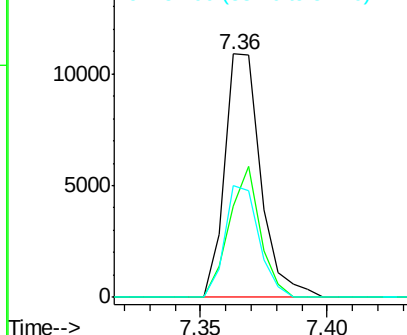
BNA_F

ClientSampleID :

Tot Ion:	82	Resp:	10757
Ion	Ratio	Lower	Upper
82	100		
128	37.6	36.1	54.1
54	46.1	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



#37

2-Methylnaphthalene

Concen: 3.343 ng

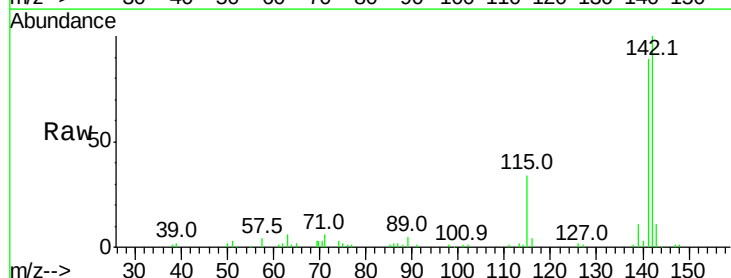
RT: 8.80 min Scan# 1142

Delta R.T. -0.01 min

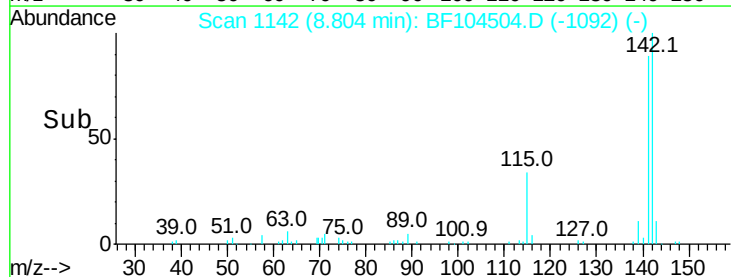
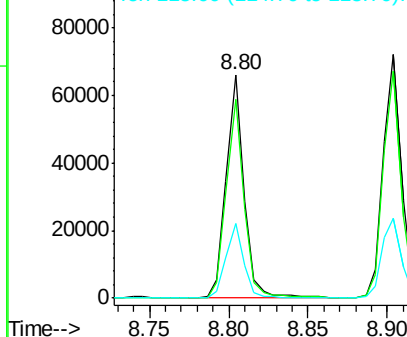
Lab File: BF104504.D

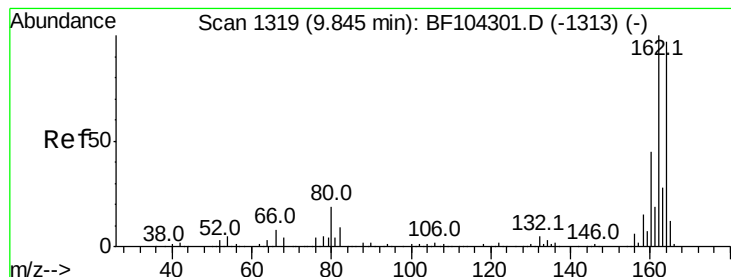
Acq: 14 Apr 2018 4:50

Tgt Ion:	142	Resp:	51641
Ion	Ratio	Lower	Upper
142	100		
141	88.7	70.8	106.2
115	33.6	26.1	39.1



Abundance Ion 142.00 (141.70 to 142.70): BF1
Ion 141.00 (140.70 to 141.70): BF1
Ion 115.00 (114.70 to 115.70): BF1





#38

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.85 min Scan# 1319

Delta R.T. -0.01 min

Lab File: BF104504.D

Acq: 14 Apr 2018 4:50

Instrument :

BNA_F

ClientSampleId :

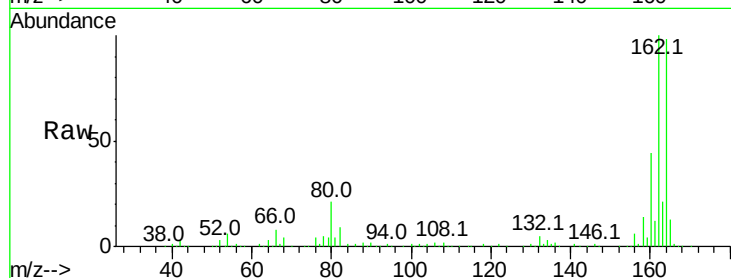
Tot Ion:164 Resp: 198526

Ion Ratio Lower Upper

164 100

162 102.1 86.1 129.1

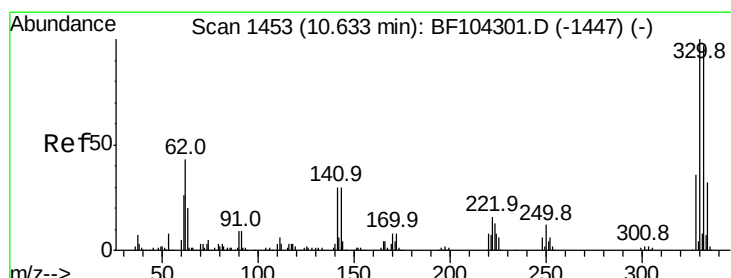
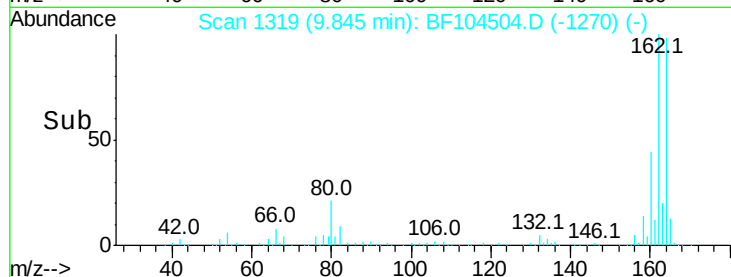
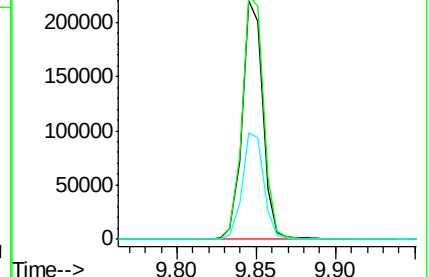
160 44.7 38.3 57.5



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: 1.492 ng

RT: 10.64 min Scan# 1454

Delta R.T. -0.01 min

Lab File: BF104504.D

Acq: 14 Apr 2018 4:50

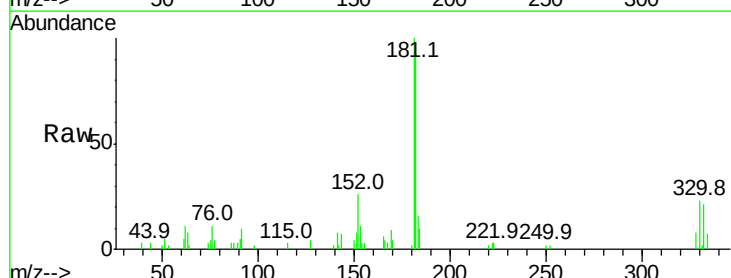
Tgt Ion:330 Resp: 3073

Ion Ratio Lower Upper

330 100

332 91.8 77.0 115.6

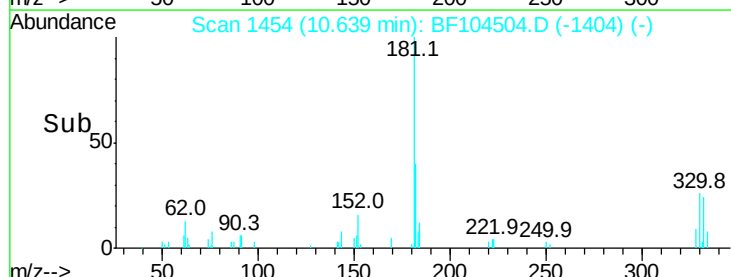
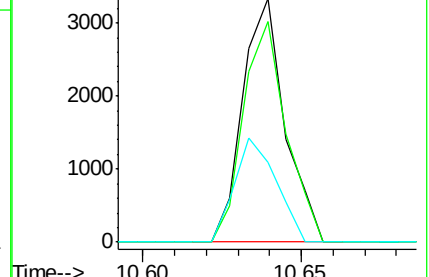
141 42.1 29.9 44.9

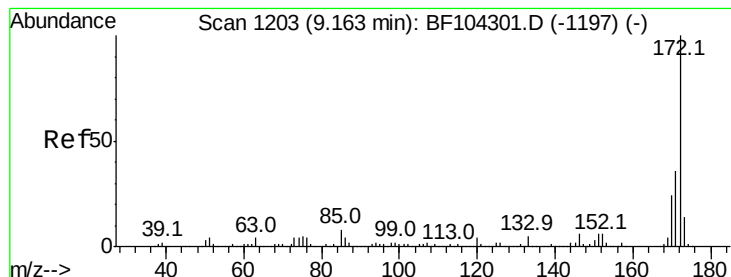


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E





#44

2-Fluorobiphenyl

Concen: 1.892 ng

RT: 9.16 min Scan# 1203

Delta R.T. -0.01 min

Lab File: BF104504.D

Acq: 14 Apr 2018 4:50

Instrument :

BNA_F

ClientSampleId :

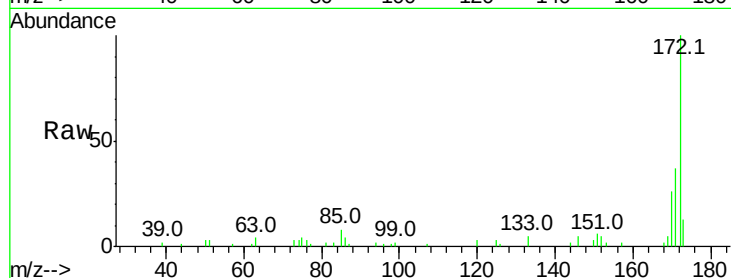
Tot Ion:172 Resp: 23771

Ion Ratio Lower Upper

172 100

171 36.7 29.7 44.5

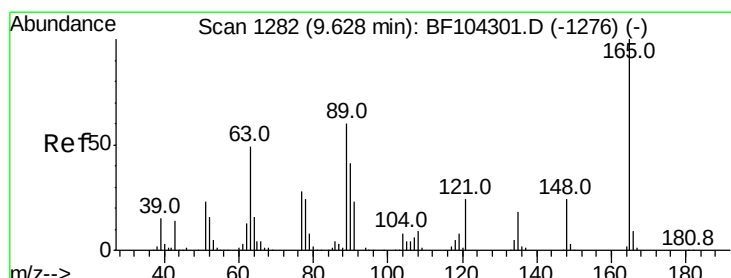
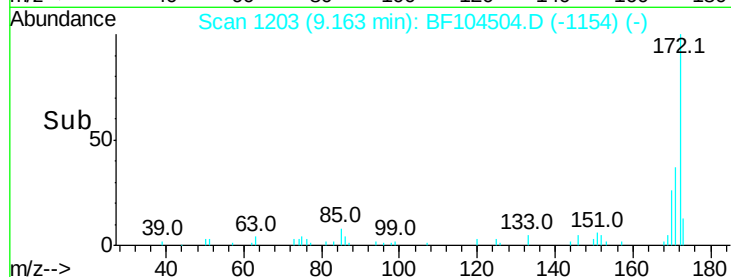
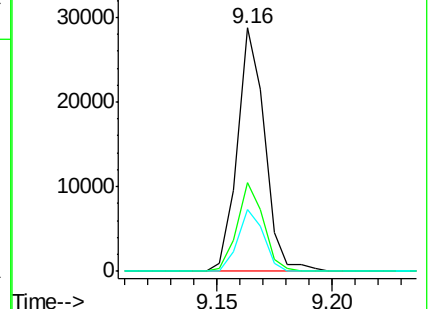
170 25.6 19.6 29.4



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



#50

2,6-Dinitrotoluene

Concen: 9.843 ng

RT: 9.85 min Scan# 1319

Delta R.T. 0.21 min

Lab File: BF104504.D

Acq: 14 Apr 2018 4:50

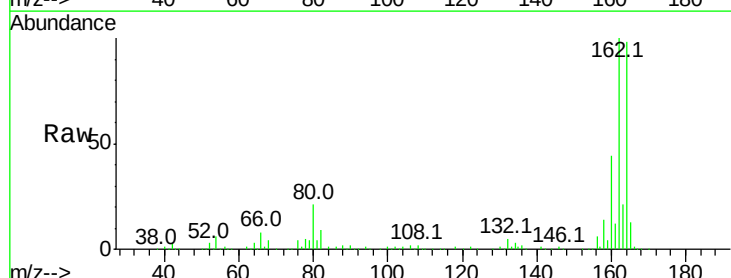
Tgt Ion:165 Resp: 28514

Ion Ratio Lower Upper

165 100

63 1.4 44.7 67.1#

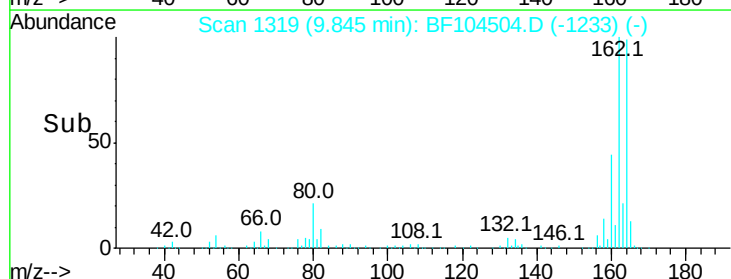
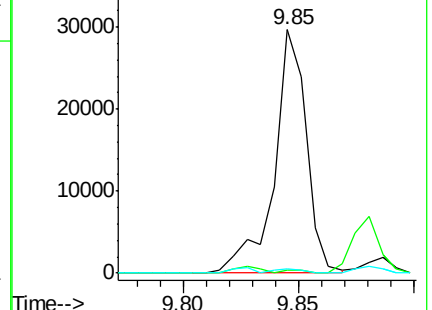
89 1.8 44.0 66.0#

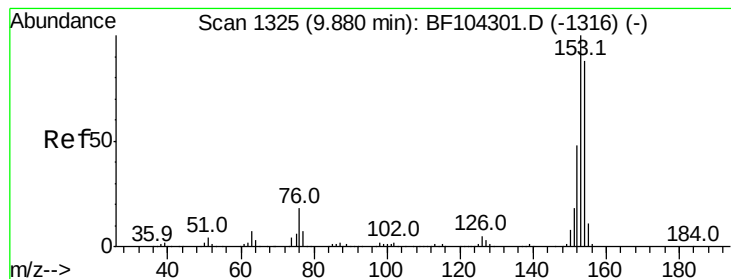


Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BF1

Ion 89.00 (88.70 to 89.70): BF1





#51

Acenaphthene

Concen: 5.612 ng

RT: 9.88 min Scan# 1325

Delta R.T. -0.01 min

Lab File: BF104504.D

Acq: 14 Apr 2018 4:50

Instrument :

BNA_F

ClientSampled :

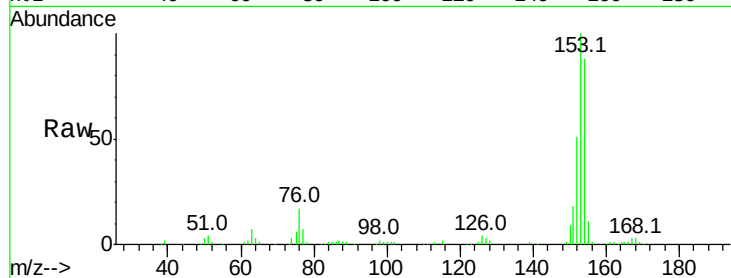
Tot Ion:154 Resp: 70773

Ion Ratio Lower Upper

154 100

153 113.5 91.2 136.8

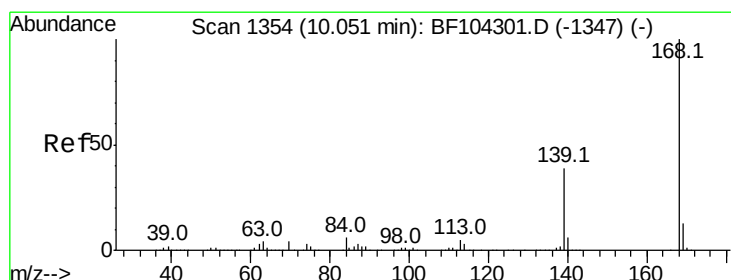
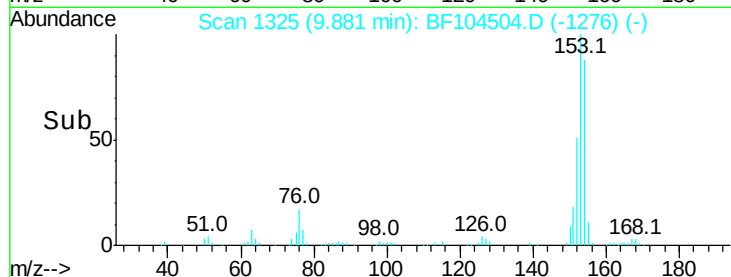
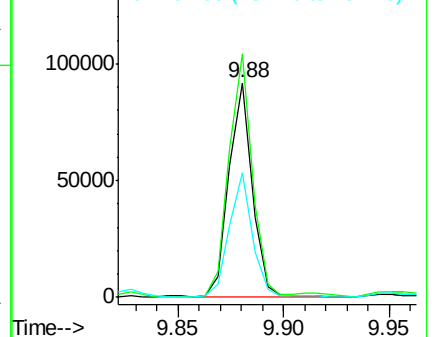
152 58.1 43.8 65.8



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



#54

Dibenzofuran

Concen: 2.268 ng

RT: 10.05 min Scan# 1354

Delta R.T. -0.01 min

Lab File: BF104504.D

Acq: 14 Apr 2018 4:50

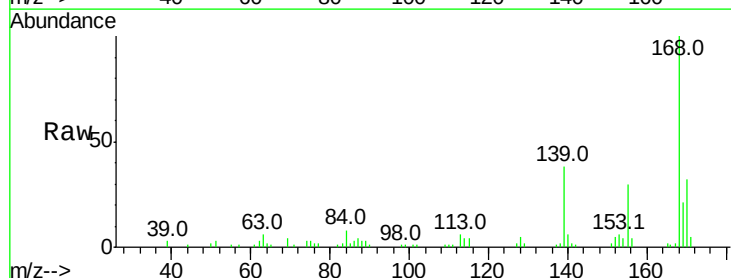
Tgt Ion:168 Resp: 39857

Ion Ratio Lower Upper

168 100

139 38.4 30.1 45.1

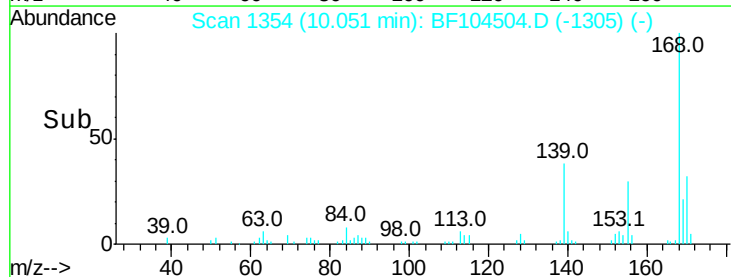
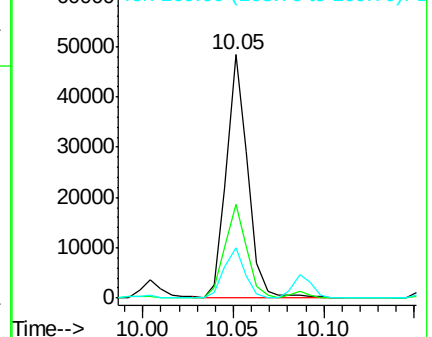
169 20.7 10.9 16.3#

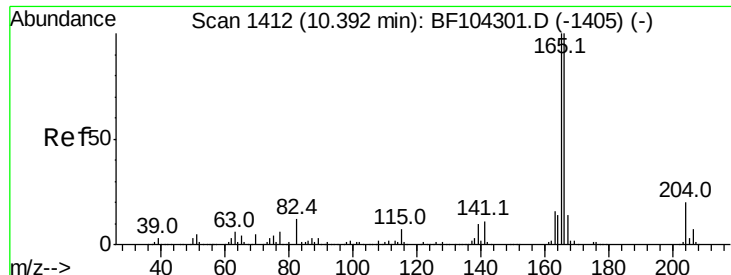


Abundance Ion 168.00 (167.70 to 168.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 169.00 (168.70 to 169.70): E

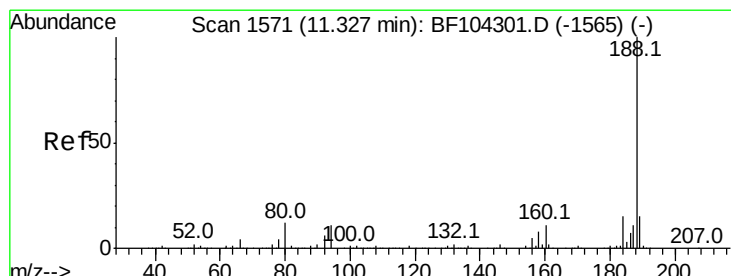
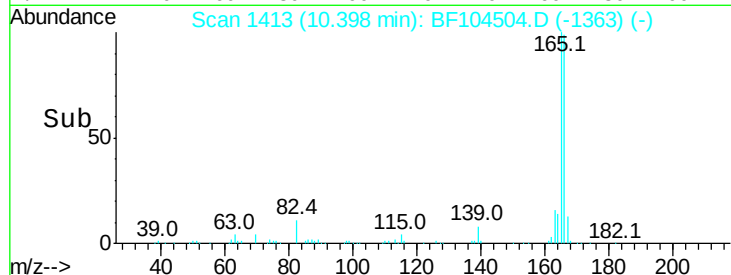
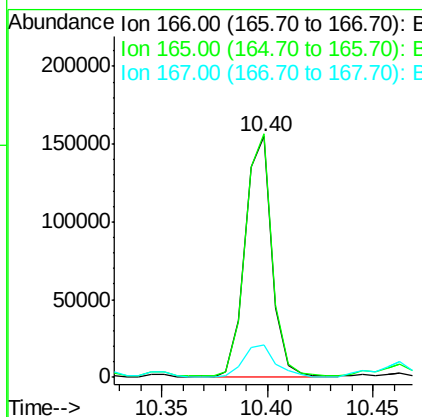
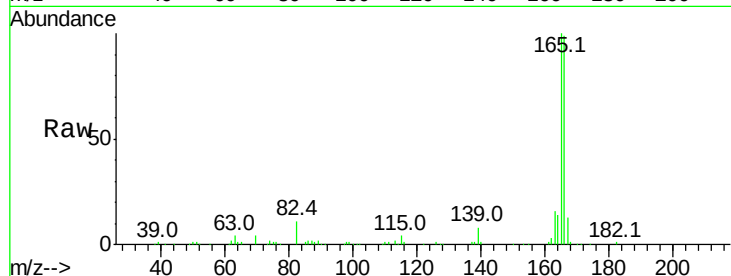




#57
Fluorene
 Concen: 10.519 ng
 RT: 10.40 min Scan# 1413
 Delta R.T. -0.01 min
 Lab File: BF104504.D
 Acq: 14 Apr 2018 4:50

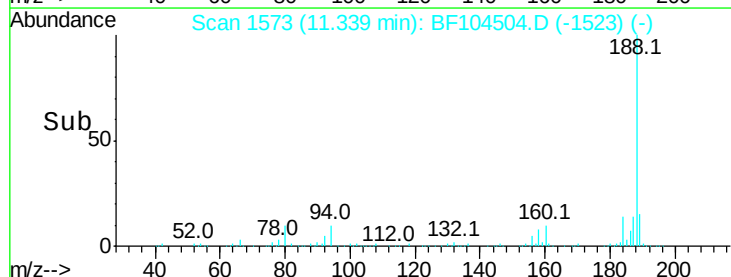
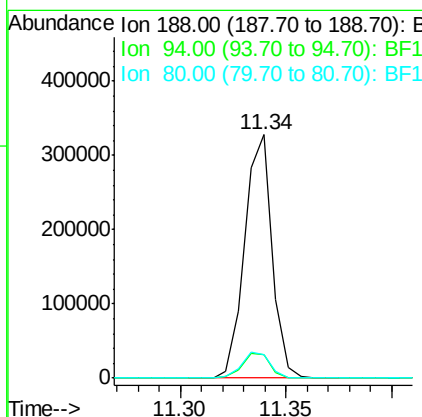
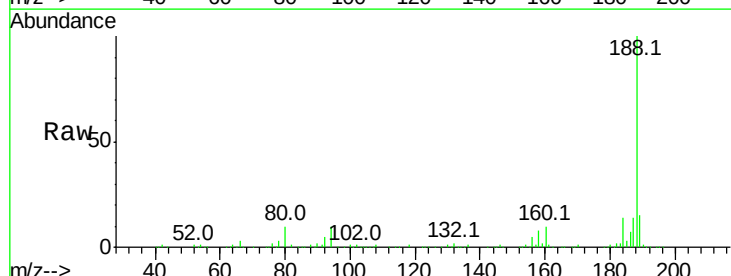
Instrument :
 BNA_F
 ClientSampleId :

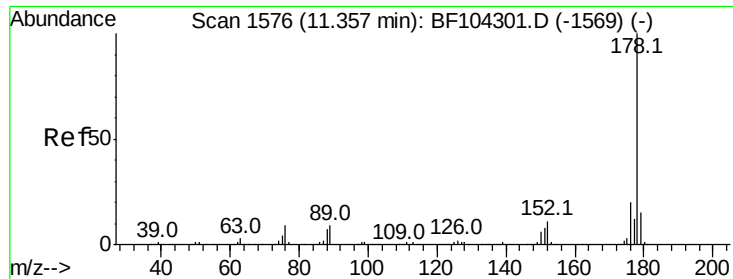
Tot Ion:166 Resp: 134560
 Ion Ratio Lower Upper
 166 100
 165 101.0 79.8 119.8
 167 13.3 10.6 16.0



#63
Phenanthrene-d10
 Concen: 20.000 ng
 RT: 11.34 min Scan# 1573
 Delta R.T. -0.01 min
 Lab File: BF104504.D
 Acq: 14 Apr 2018 4:50

Tgt Ion:188 Resp: 294947
 Ion Ratio Lower Upper
 188 100
 94 9.7 8.5 12.7
 80 9.7 9.2 13.8

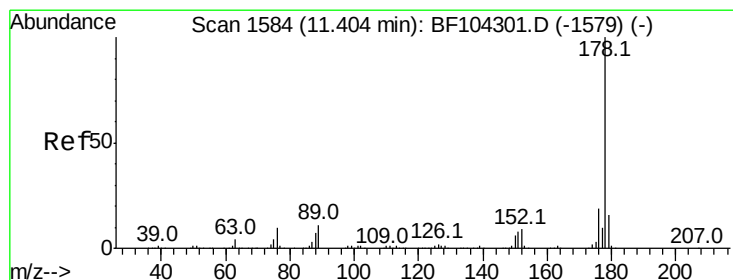
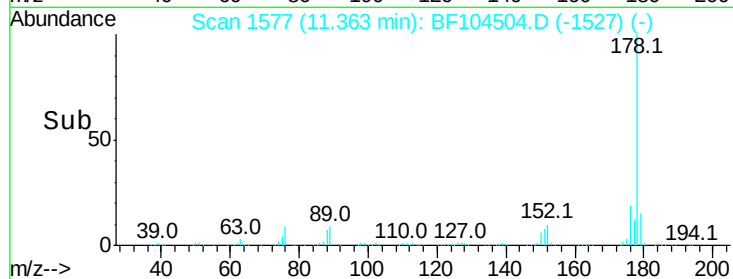
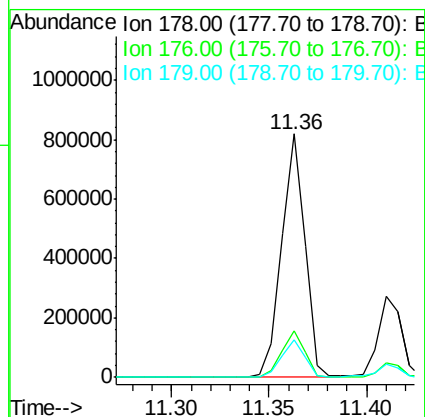
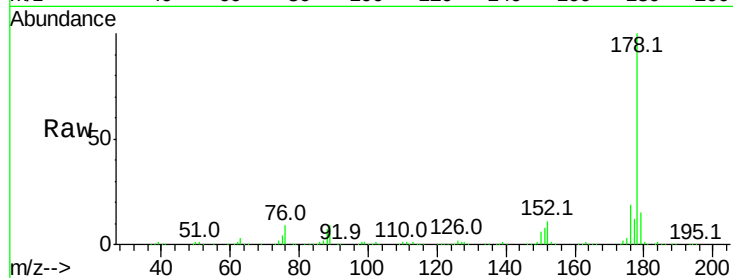




#70
 Phenanthrene
 Concen: 41.154 ng
 RT: 11.36 min Scan# 1577
 Delta R.T. -0.01 min
 Lab File: BF104504.D
 Acq: 14 Apr 2018 4:50

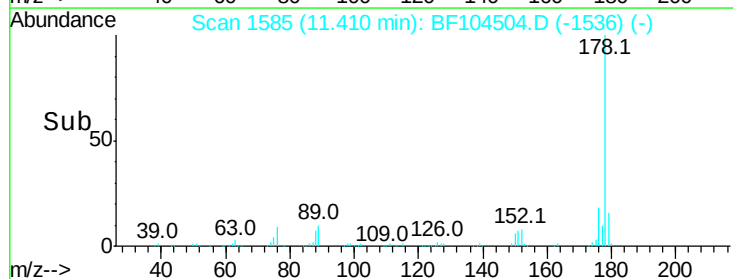
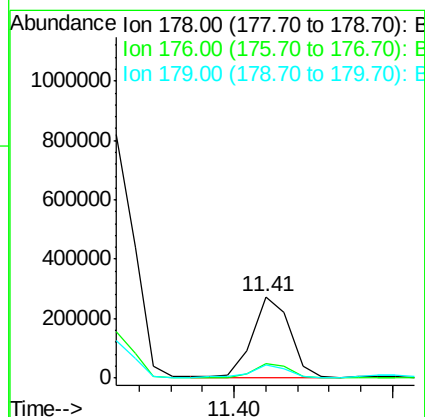
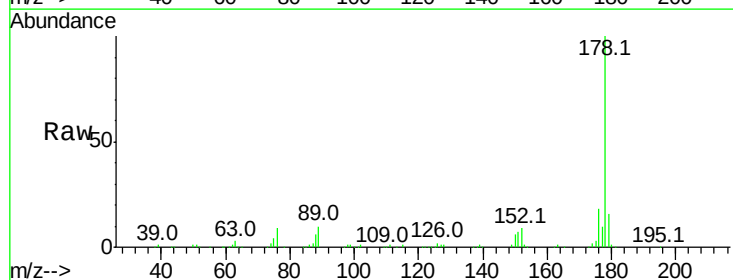
Instrument :
 BNA_F
 ClientSampleId :

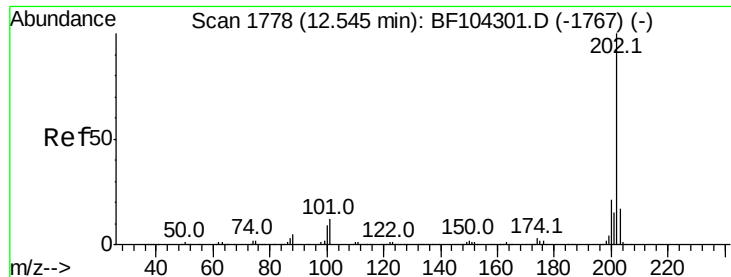
Tot Ion:178 Resp: 675977
 Ion Ratio Lower Upper
 178 100
 176 19.3 15.8 23.8
 179 15.3 13.0 19.6



#71
 Anthracene
 Concen: 13.199 ng
 RT: 11.41 min Scan# 1585
 Delta R.T. -0.01 min
 Lab File: BF104504.D
 Acq: 14 Apr 2018 4:50

Tgt Ion:178 Resp: 220372
 Ion Ratio Lower Upper
 178 100
 176 18.1 15.4 23.2
 179 16.0 12.6 19.0





#74

Fluoranthene

Concen: 28.226 ng

RT: 12.55 min Scan# 1779

Delta R.T. -0.01 min

Lab File: BF104504.D

Acq: 14 Apr 2018 4:50

Instrument :

BNA_F

ClientSampleId :

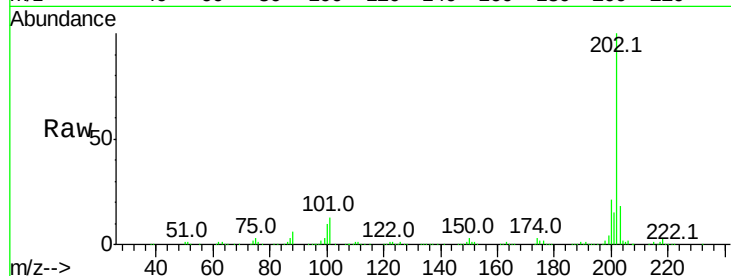
Tot Ion:202 Resp: 484395

Ion Ratio Lower Upper

202 100

101 13.3 0.0 34.1

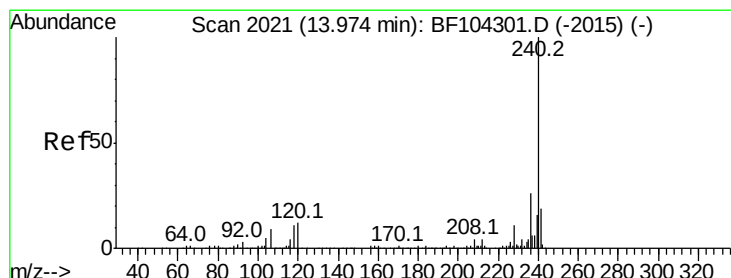
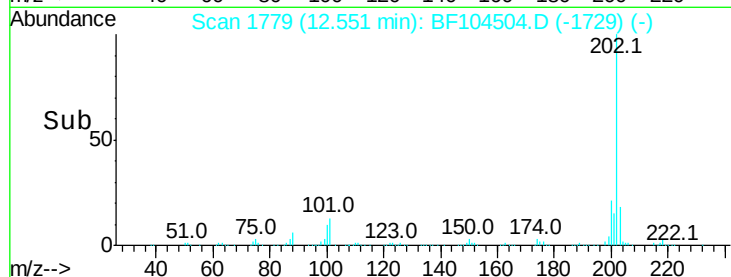
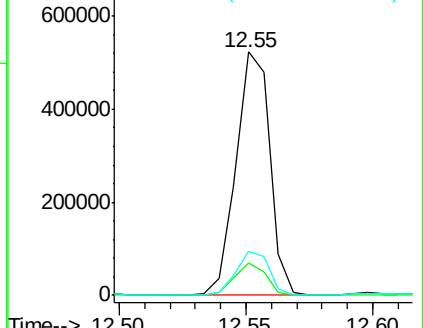
203 18.2 0.0 38.1



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: 13.98 min Scan# 2022

Delta R.T. -0.01 min

Lab File: BF104504.D

Acq: 14 Apr 2018 4:50

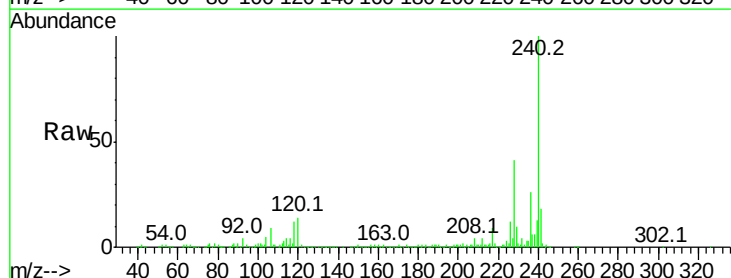
Tgt Ion:240 Resp: 230243

Ion Ratio Lower Upper

240 100

120 13.7 9.5 14.3

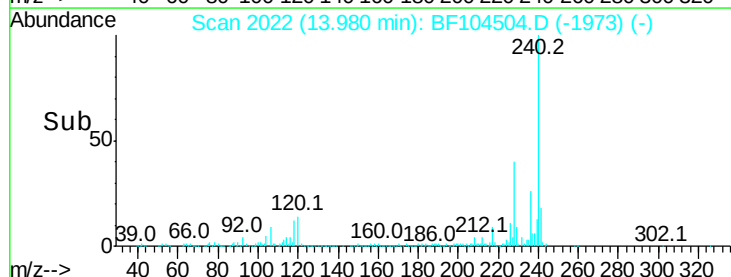
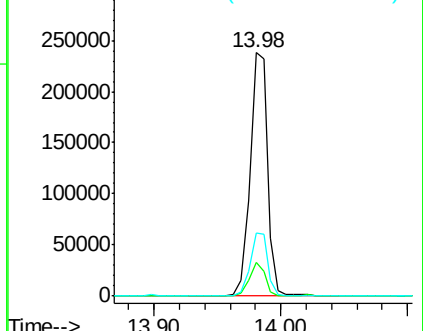
236 25.9 20.7 31.1

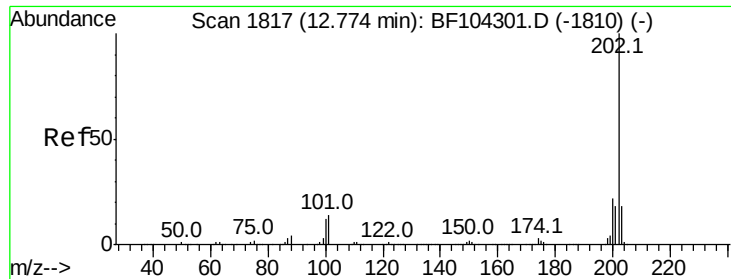


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E

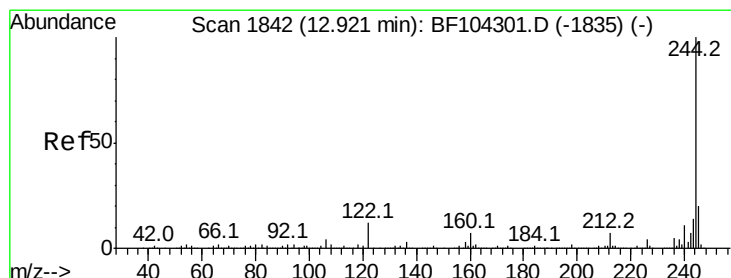
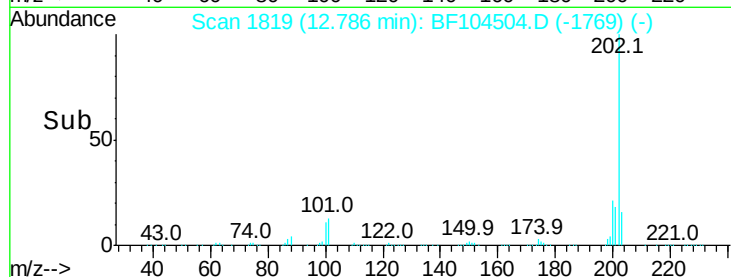
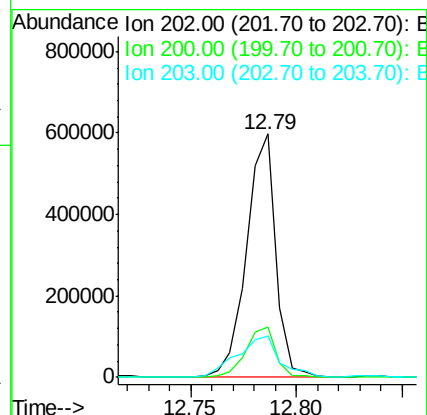
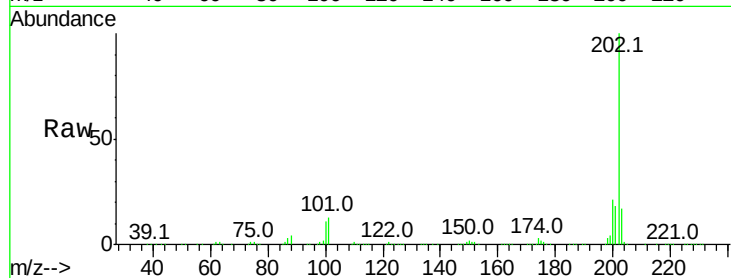




#77
Pvrene
Concen: 33.533 ng
RT: 12.79 min Scan# 1819
Delta R.T. -0.01 min
Lab File: BF104504.D
Acq: 14 Apr 2018 4:50

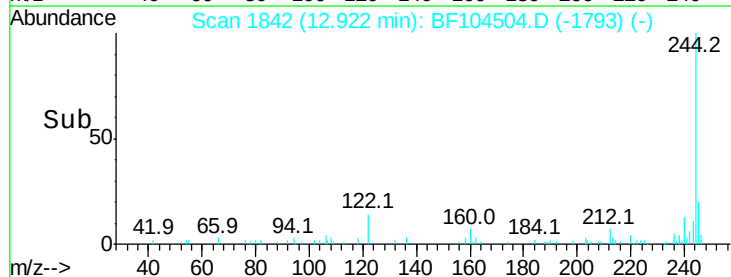
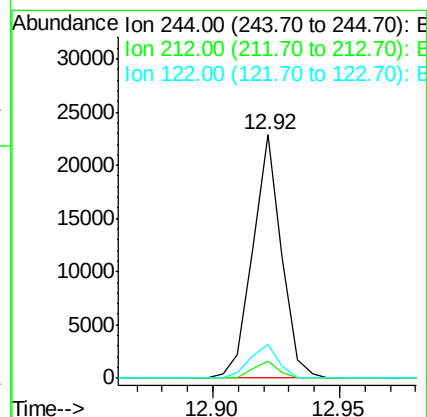
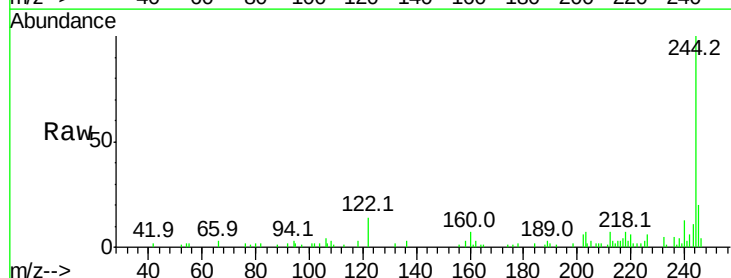
Instrument :
BNA_F
ClientSampleId :

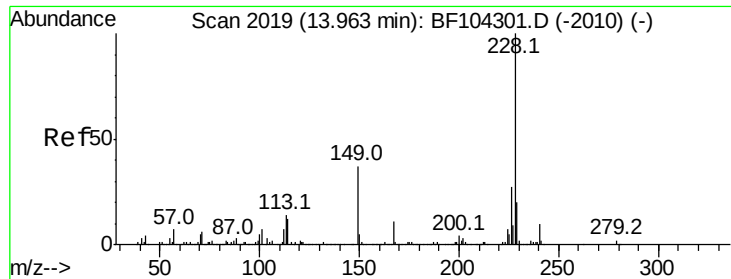
Tot Ion:202 Resp: 572282
Ion Ratio Lower Upper
202 100
200 20.9 17.4 26.2
203 17.1 14.3 21.5



#78
Terphenyl-d14
Concen: 1.785 ng
RT: 12.92 min Scan# 1842
Delta R.T. -0.01 min
Lab File: BF104504.D
Acq: 14 Apr 2018 4:50

Tgt Ion:244 Resp: 18022
Ion Ratio Lower Upper
244 100
212 6.9 5.4 8.0
122 14.0 11.0 16.4

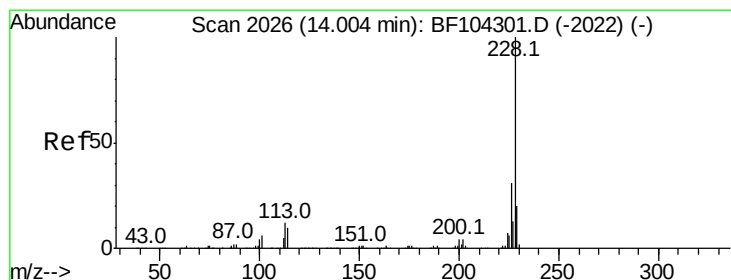
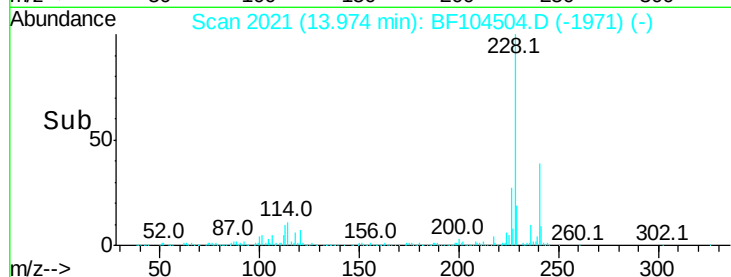
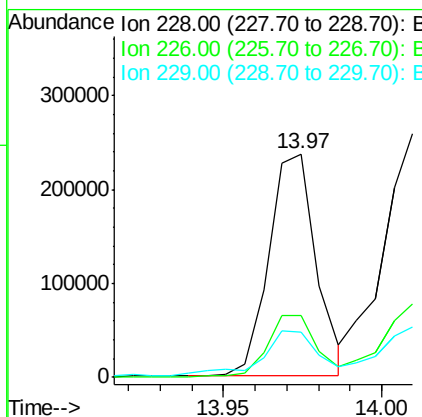
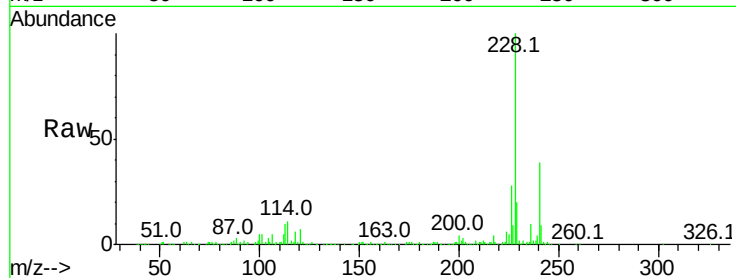




#80
Benzo(a)anthracene
Concen: 17.909 ng
RT: 13.97 min Scan# 2021
Delta R.T. -0.01 min
Lab File: BF104504.D
Acq: 14 Apr 2018 4:50

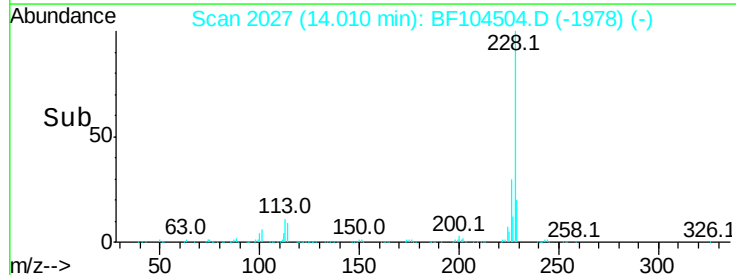
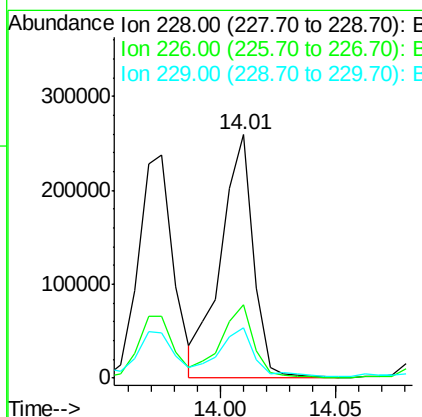
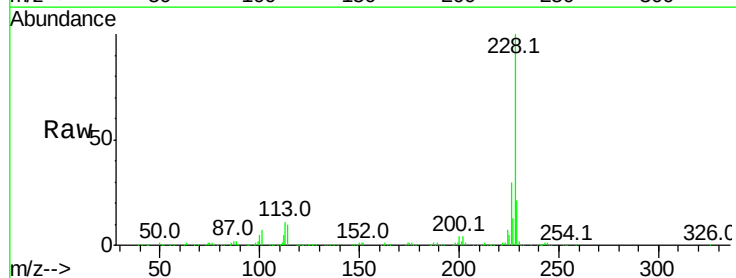
Instrument :
BNA_F
ClientSampleId :

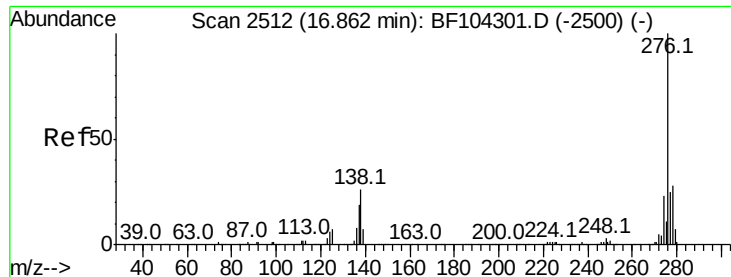
Tot Ion	Ratio	Lower	Upper
228	100		
226	27.9	22.6	33.8
229	20.5	15.8	23.6



#82
Chrysene
Concen: 17.768 ng
RT: 14.01 min Scan# 2027
Delta R.T. -0.01 min
Lab File: BF104504.D
Acq: 14 Apr 2018 4:50

Tgt Ion	Ratio	Lower	Upper
228	100		
226	30.2	25.0	37.6
229	20.7	16.2	24.4

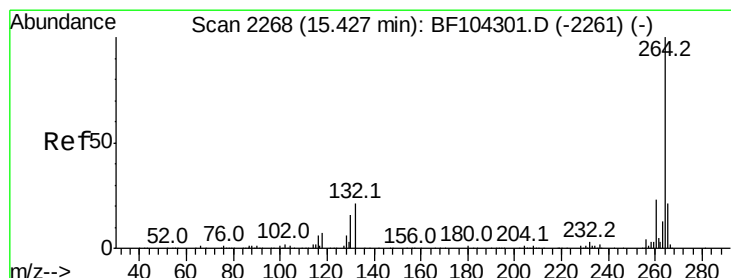
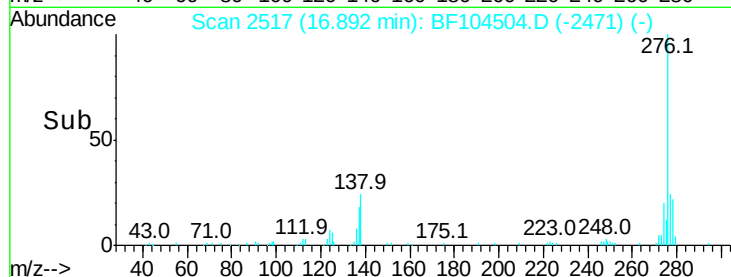
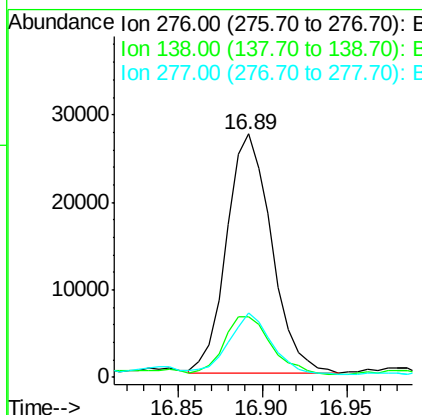
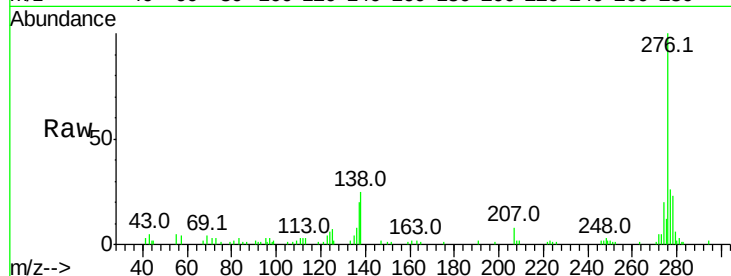




#85
Indeno(1,2,3-cd)pyrene
Concen: 4.238 ng
RT: 16.89 min Scan# 2517
Delta R.T. -0.03 min
Lab File: BF104504.D
Acq: 14 Apr 2018 4:50

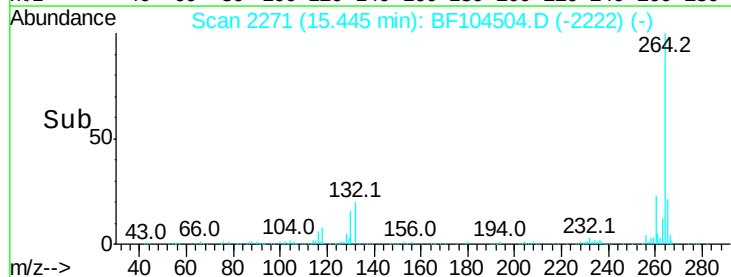
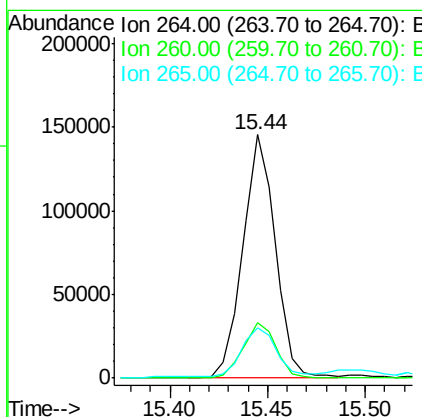
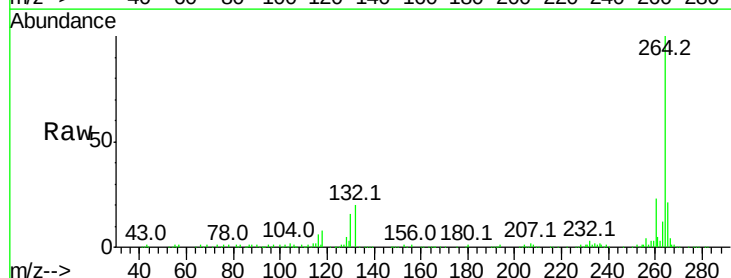
Instrument :
BNA_F
ClientSampleId :

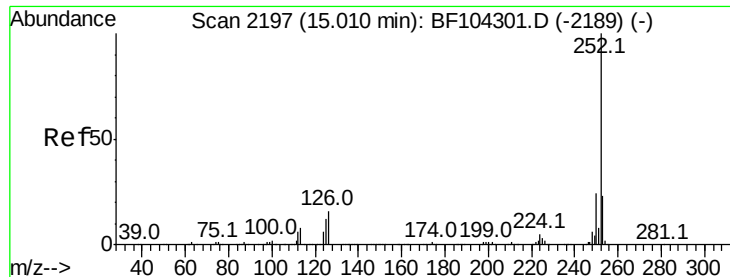
Tot Ion	Ratio	Lower	Upper
276	100		
138	27.1	25.0	37.6
277	24.5	20.1	30.1



#86
Perylene-d12
Concen: 20.000 ng
RT: 15.44 min Scan# 2271
Delta R.T. -0.01 min
Lab File: BF104504.D
Acq: 14 Apr 2018 4:50

Tgt Ion	Ratio	Lower	Upper
264	100		
260	22.7	19.2	28.8
265	20.8	17.5	26.3





#87

Benzo(b)fluoranthene

Concen: 20.029 ng

RT: 15.02 min Scan# 2199

Delta R.T. -0.01 min

Lab File: BF104504.D

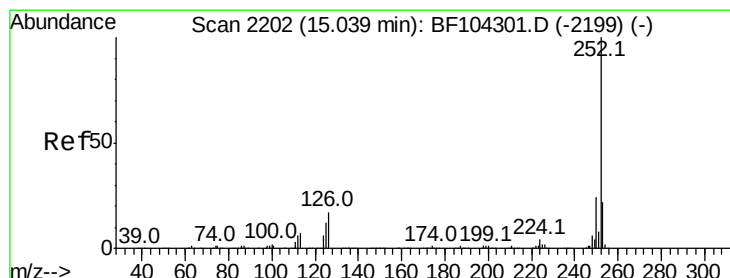
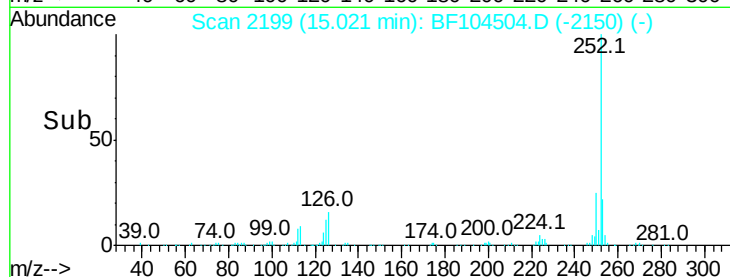
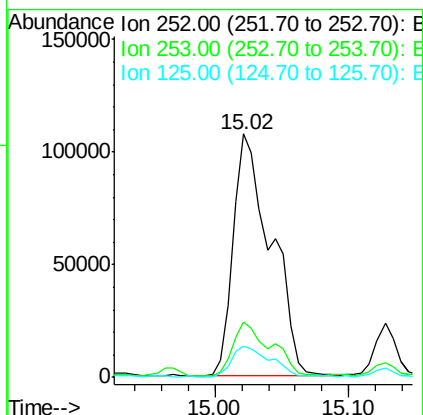
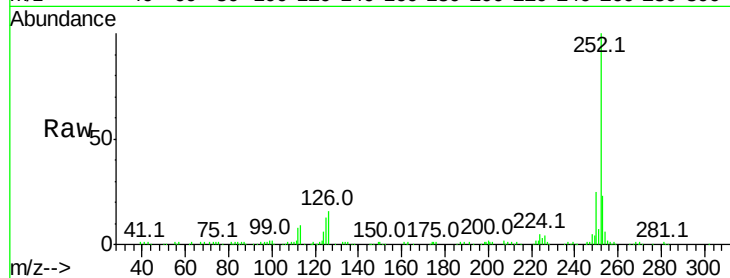
Acq: 14 Apr 2018 4:50

Instrument :

BNA_F

ClientSampled :

Tot Ion:	252	Resp:	212726
Ion	Ratio	Lower	Upper
252	100		
253	22.6	17.0	25.6
125	12.7	9.0	13.6



#88

Benzo(k)fluoranthene

Concen: 21.215 ng

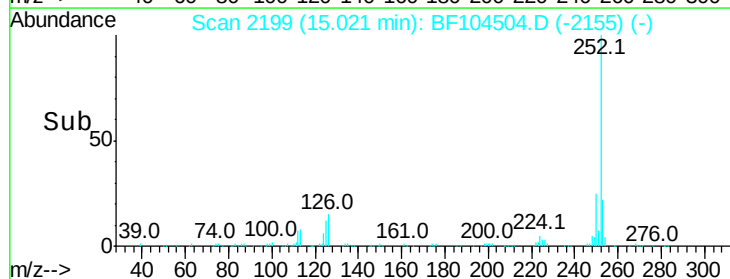
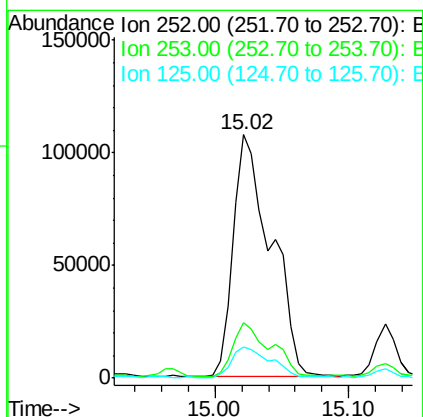
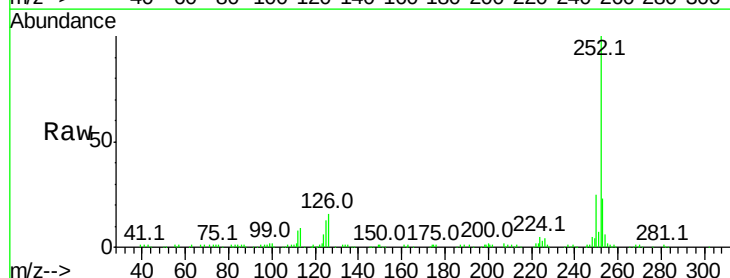
RT: 15.02 min Scan# 2199

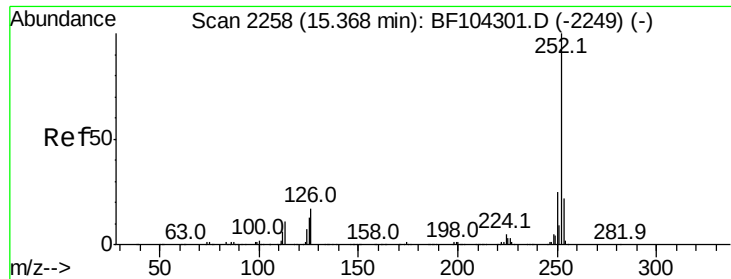
Delta R.T. -0.04 min

Lab File: BF104504.D

Acq: 14 Apr 2018 4:50

Tgt Ion:	252	Resp:	212726
Ion	Ratio	Lower	Upper
252	100		
253	22.6	17.9	26.9
125	12.7	10.2	15.2

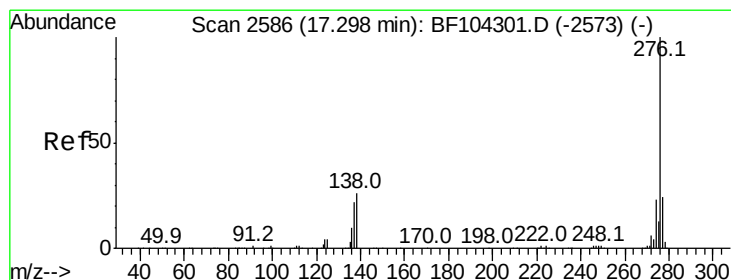
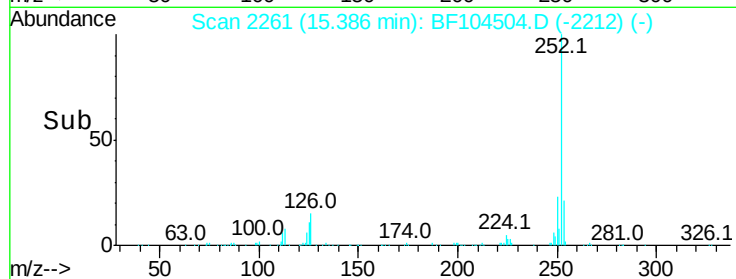
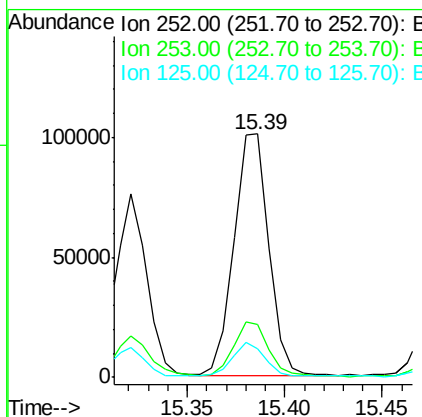
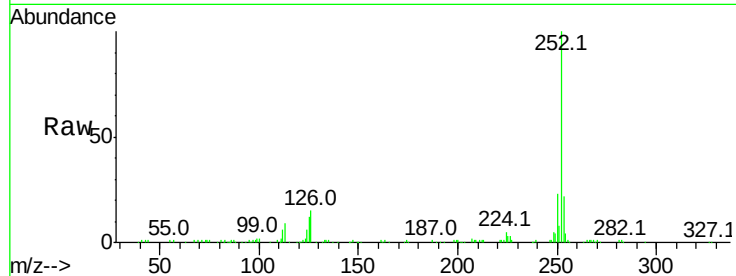




#89
Benzo(a)pyrene
Concen: 13.258 ng
RT: 15.39 min Scan# 2261
Delta R.T. -0.01 min
Lab File: BF104504.D
Acq: 14 Apr 2018 4:50

Instrument :
BNA_F
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
252	100		
253	21.7	17.1	25.7
125	11.6	9.8	14.6



#91
Benzo(g,h,i)perylene
Concen: 7.880 ng
RT: 17.33 min Scan# 2592
Delta R.T. -0.03 min
Lab File: BF104504.D
Acq: 14 Apr 2018 4:50

Tgt Ion	Ratio	Lower	Upper
276	100		
277	23.7	17.9	26.9
138	25.0	21.8	32.8

