

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF122217\
 Data File : BF101653.D
 Acq On : 22 Dec 2017 15:10
 Operator : SJ/JU
 Sample : I6681-01DL 10X
 Misc :
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 PL-01-121917-ADL

Quant Time: Dec 22 16:10:15 2017
 Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF121417.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Dec 22 16:07:58 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.79	152	157973	20.00	ng	0.00
21) Naphthalene-d8	8.07	136	636241	20.00	ng	0.00
38) Acenaphthene-d10	9.82	164	281594	20.00	ng	0.00
63) Phenanthrene-d10	11.32	188	501086	20.00	ng	0.00
75) Chrysene-d12	13.96	240	313803	20.00	ng	0.00
86) Perylene-d12	15.43	264	309599	20.00	ng	0.00

System Monitoring Compounds						
5) 2-Fluorophenol	5.42	112	136832	12.90	ng	0.01
7) Phenol-d6	6.43	99	180767	13.70	ng	0.00
23) Nitrobenzene-d5	7.36	82	110902	9.70	ng	0.00
41) 2,4,6-Tribromophenol	10.62	330	35434	13.06	ng	0.00
44) 2-Fluorobiphenyl	9.14	172	190049	10.47	ng	0.00
78) Terphenyl-d14	12.89	244	156102	11.99	ng	-0.01

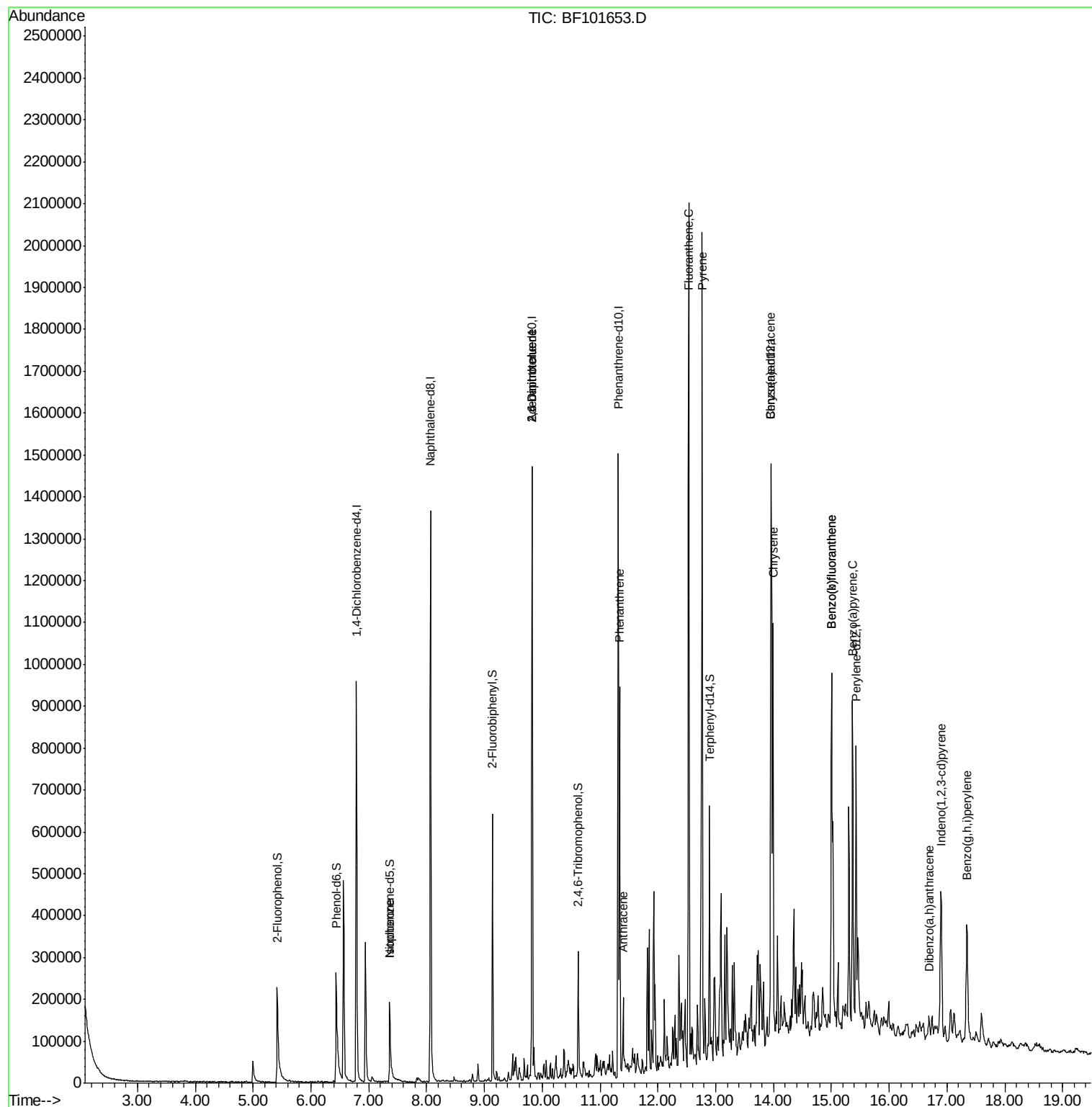
Target Compounds					Qvalue	
25) Isophorone	7.36	82	110902	4.837	ng	# 64
50) 2,6-Dinitrotoluene	9.82	165	36560	7.942	ng	# 26
56) 2,4-Dinitrotoluene	9.82	165	36560	7.049	ng	# 24
70) Phenanthrene	11.34	178	321995	11.555	ng	99
71) Anthracene	11.40	178	85388	3.000	ng	97
74) Fluoranthene	12.53	202	769617	26.312	ng	98
77) Pyrene	12.76	202	808796	34.343	ng	99
80) Benzo(a)anthracene	13.96	228	418798	20.211	ng	99
82) Chrysene	13.99	228	396693	20.276	ng	99
85) Indeno(1,2,3-cd)pyrene	16.90	276	227946	13.084	ng	# 91
87) Benzo(b)fluoranthene	15.00	252	621687	32.944	ng	97
88) Benzo(k)fluoranthene	15.00	252	621687	33.884	ng	99
89) Benzo(a)pyrene	15.37	252	359978	20.693	ng	97
90) Dibenzo(a,h)anthracene	16.70	278	41530	2.781	ng	96
91) Benzo(g,h,i)perylene	17.34	276	223681	15.124	ng	95

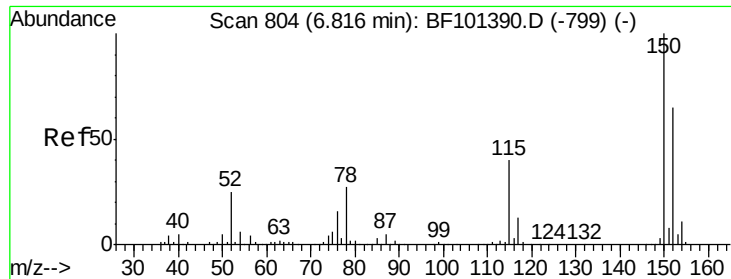
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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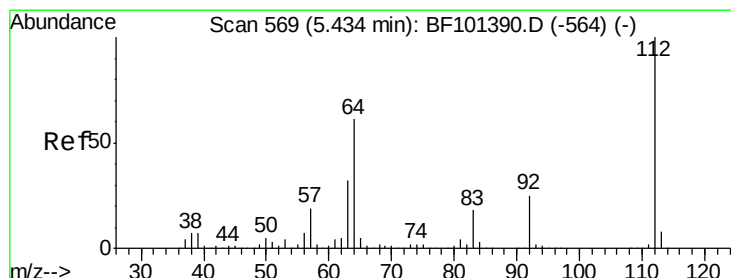
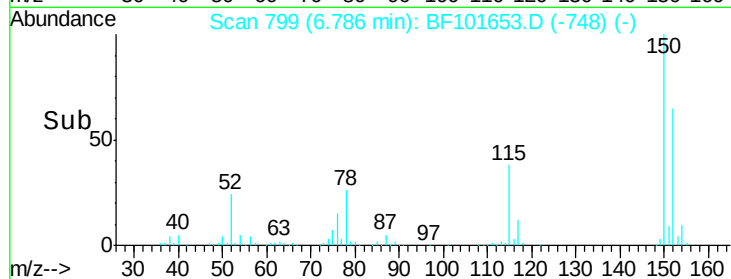
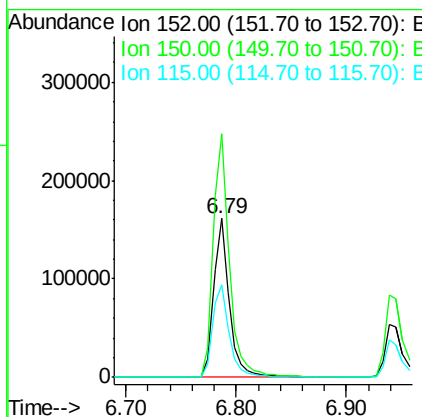
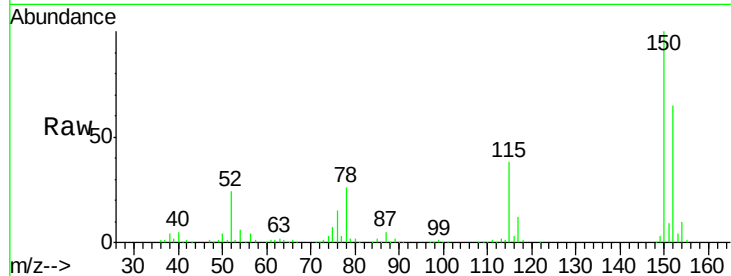




#1
 1,4-Dichlorobenzene-d4
 Concen: 20.000 ng
 RT: 6.79 min Scan# 799
 Delta R.T. 0.00 min
 Lab File: BF101653.D
 Acq: 22 Dec 2017 15:10

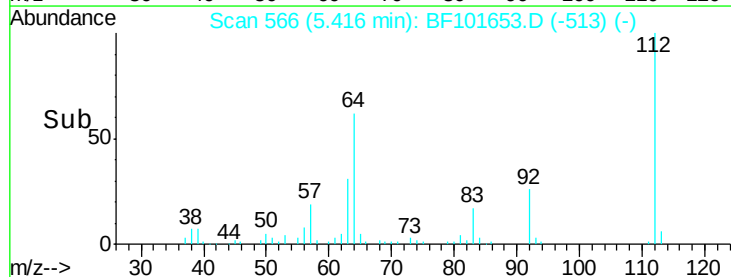
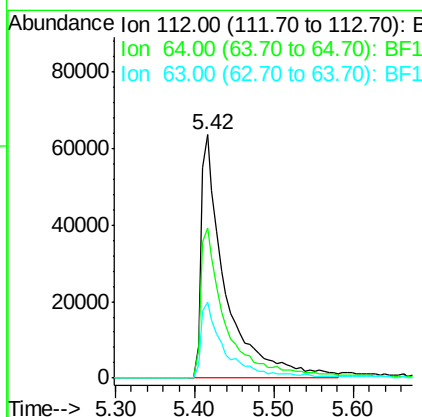
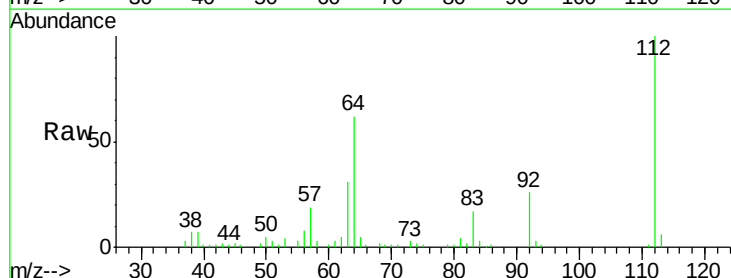
Instrument :
 BNA_F
 ClientSampleId :
 PL-01-121917-ADL

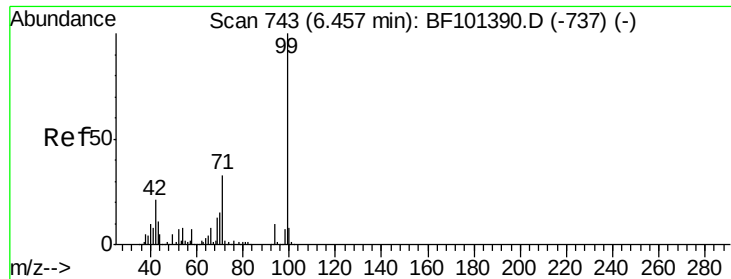
Tgt Ion:152 Resp: 157973
 Ion Ratio Lower Upper
 152 100
 150 153.4 124.6 186.8
 115 58.5 50.1 75.1



#5
 2-Fluorophenol
 Concen: 12.902 ng
 RT: 5.42 min Scan# 566
 Delta R.T. 0.01 min
 Lab File: BF101653.D
 Acq: 22 Dec 2017 15:10

Tgt Ion:112 Resp: 136832
 Ion Ratio Lower Upper
 112 100
 64 61.8 47.9 71.9
 63 31.4 23.7 35.5





#7

Phenol-d6

Concen: 13.696 ng

RT: 6.43 min Scan# 739

Delta R.T. 0.00 min

Lab File: BF101653.D

Acq: 22 Dec 2017 15:10

Instrument :

BNA_F

ClientSampleId :

PL-01-121917-ADL

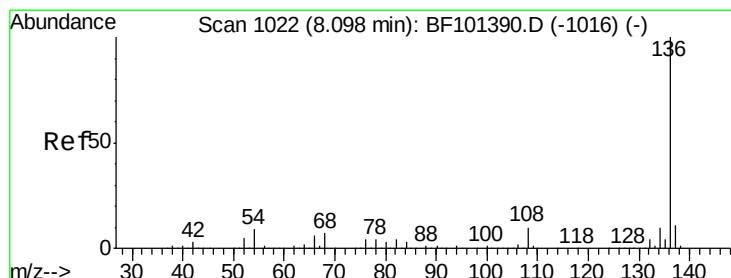
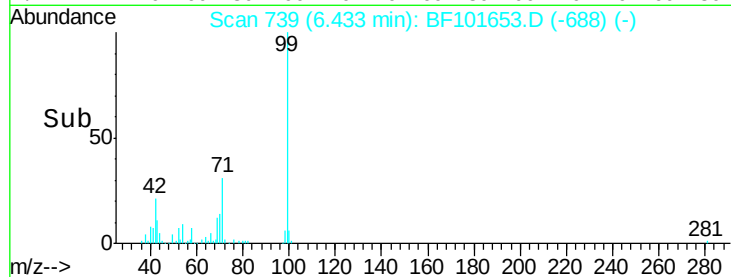
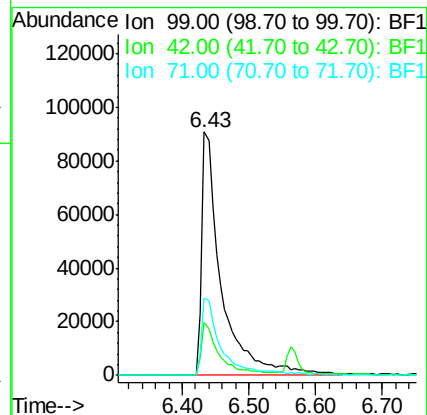
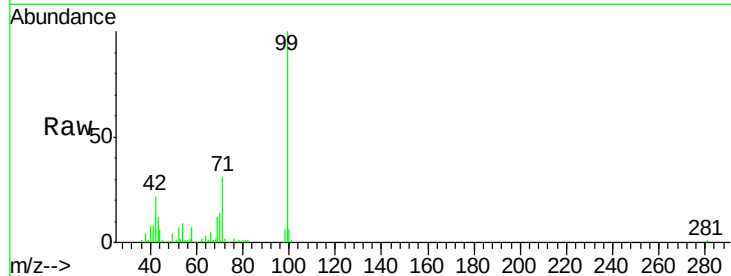
Tgt Ion: 99 Resp: 180767

Ion Ratio Lower Upper

99 100

42 21.9 14.5 21.7#

71 31.5 25.4 38.0



#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.07 min Scan# 1017

Delta R.T. -0.00 min

Lab File: BF101653.D

Acq: 22 Dec 2017 15:10

Tgt Ion: 136 Resp: 636241

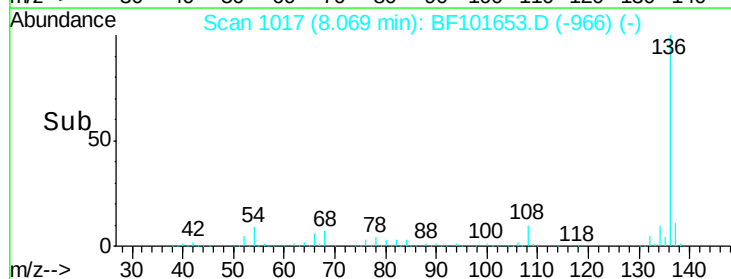
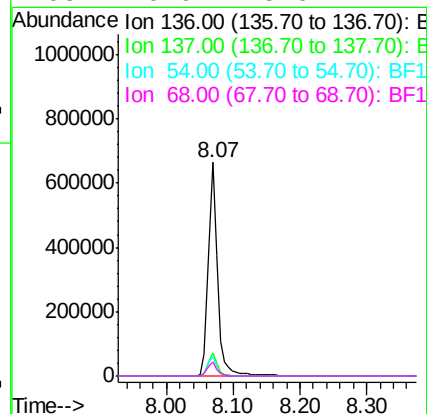
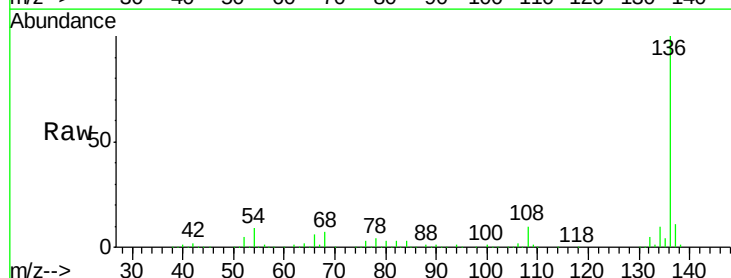
Ion Ratio Lower Upper

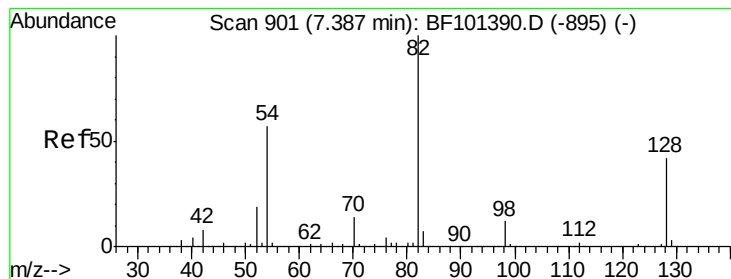
136 100

137 10.9 8.9 13.3

54 9.3 6.6 9.8

68 6.9 5.0 7.4





#23

Nitrobenzene-d5

Concen: 9.703 ng

RT: 7.36 min Scan# 897

Delta R.T. 0.00 min

Lab File: BF101653.D

Acq: 22 Dec 2017 15:10

Instrument :

BNA_F

ClientSampleId :

PL-01-121917-ADL

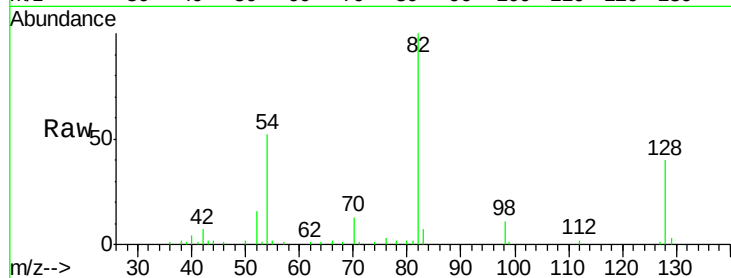
Tgt Ion: 82 Resp: 110902

Ion Ratio Lower Upper

82 100

128 39.6 36.1 54.1

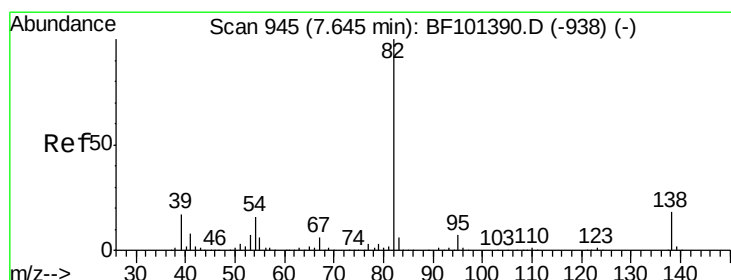
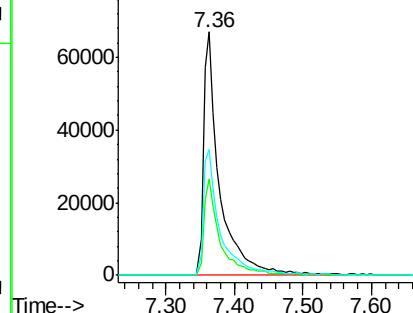
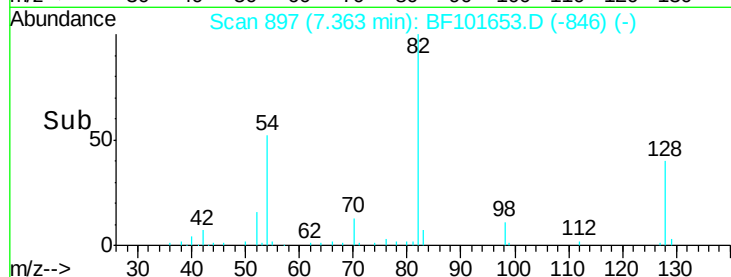
54 51.9 41.4 62.2



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



#25

Isophorone

Concen: 4.837 ng

RT: 7.36 min Scan# 897

Delta R.T. -0.25 min

Lab File: BF101653.D

Acq: 22 Dec 2017 15:10

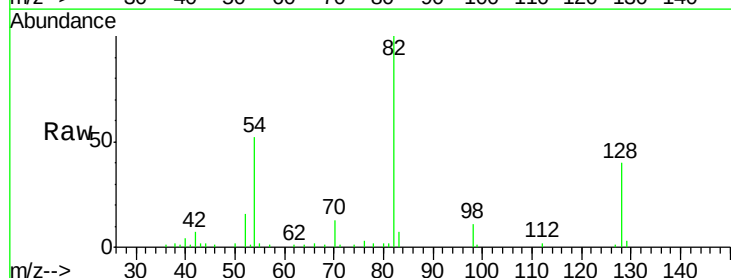
Tgt Ion: 82 Resp: 110902

Ion Ratio Lower Upper

82 100

95 0.0 5.2 7.8#

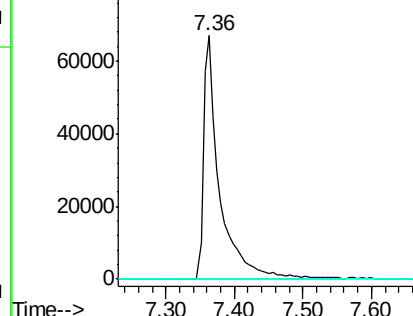
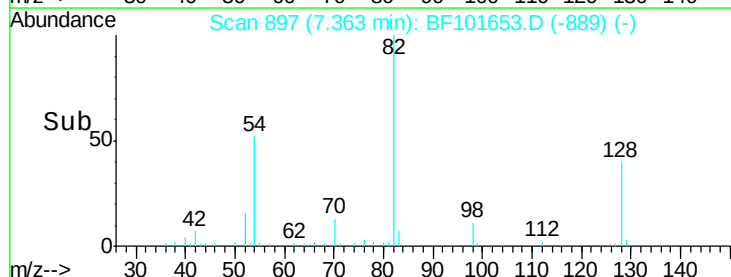
138 0.0 14.9 22.3#

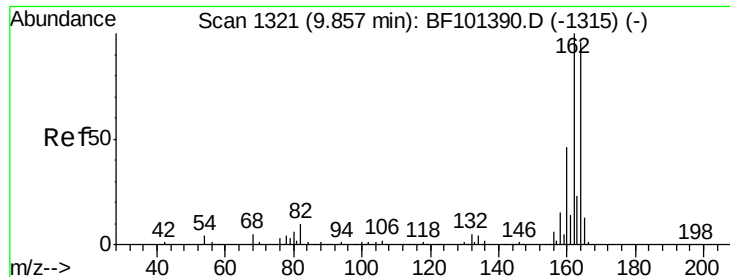


Abundance Ion 82.00 (81.70 to 82.70): BF1

Ion 95.00 (94.70 to 95.70): BF1

Ion 138.00 (137.70 to 138.70): BF1

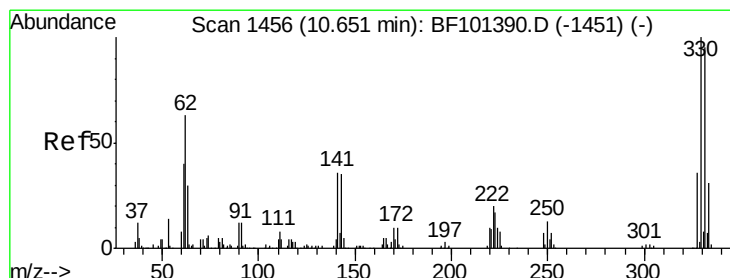
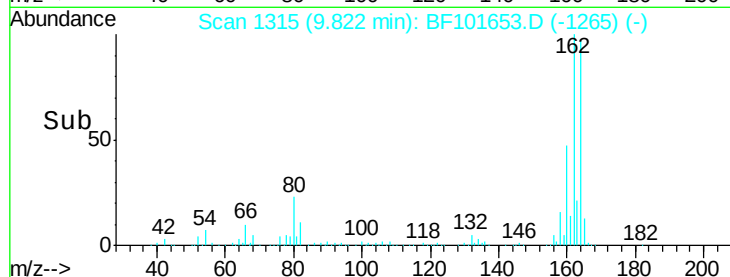
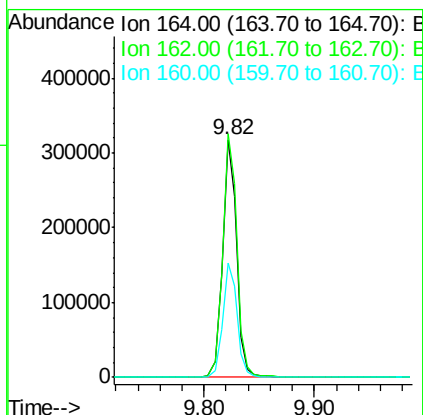
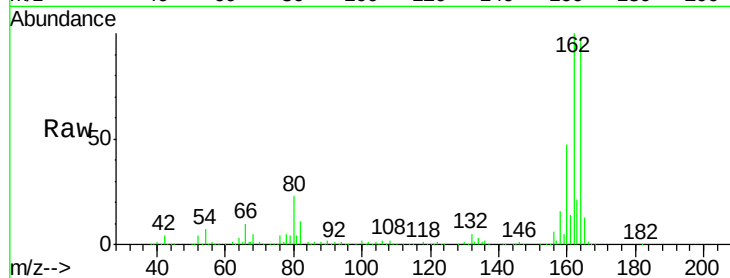




#38
 Acenaphthene-d10
 Concen: 20.000 ng
 RT: 9.82 min Scan# 1315
 Delta R.T. -0.01 min
 Lab File: BF101653.D
 Acq: 22 Dec 2017 15:10

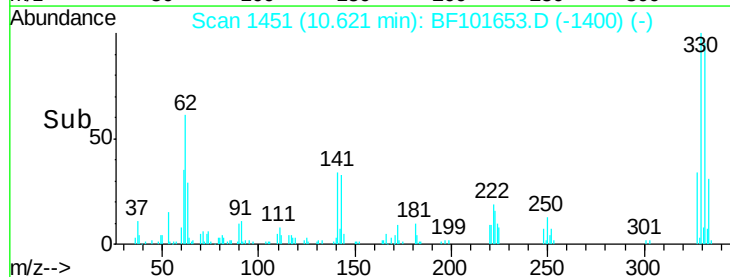
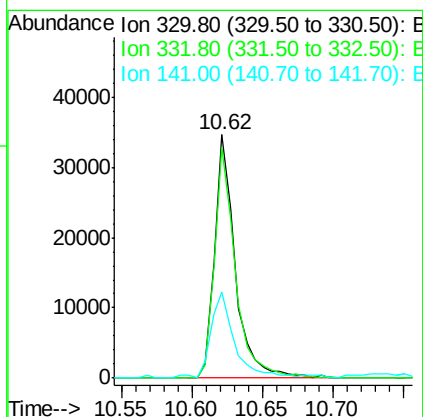
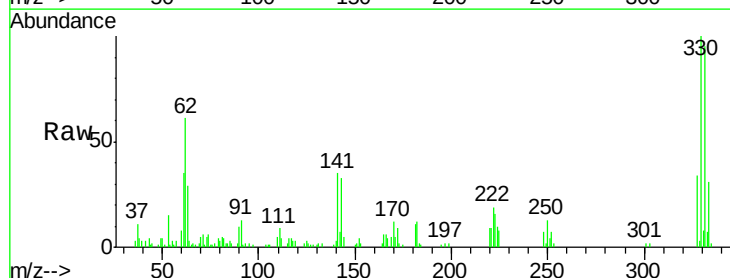
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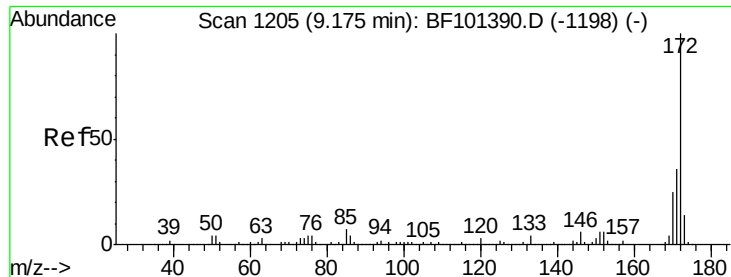
Tgt Ion	Ratio	Lower	Upper
164	100		
162	102.6	86.1	129.1
160	48.2	38.3	57.5



#41
 2,4,6-Tribromophenol
 Concen: 13.059 ng
 RT: 10.62 min Scan# 1451
 Delta R.T. -0.00 min
 Lab File: BF101653.D
 Acq: 22 Dec 2017 15:10

Tgt Ion	Ratio	Lower	Upper
330	100		
332	95.7	77.0	115.6
141	40.2	29.9	44.9

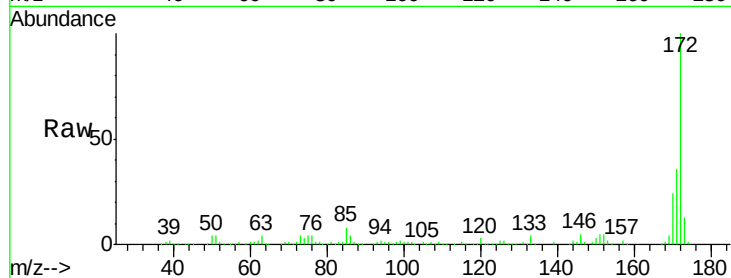




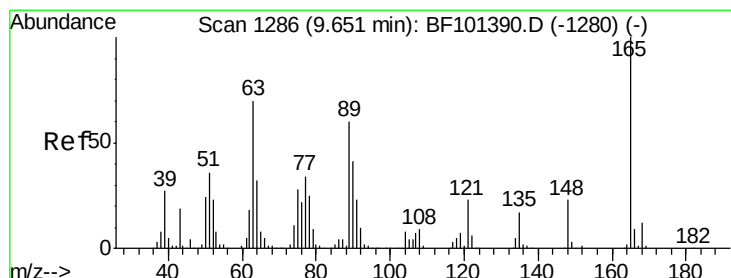
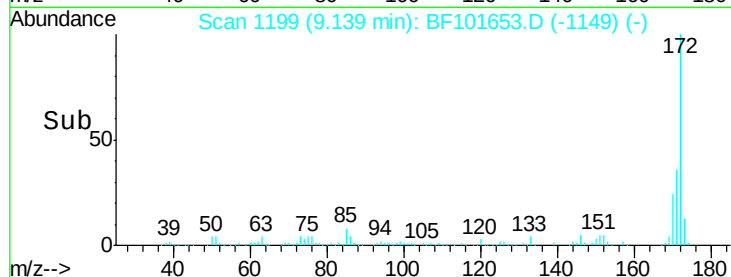
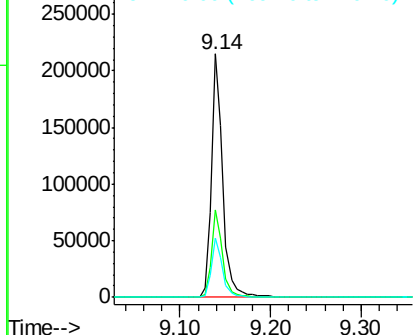
#44
 2-Fluorobiphenyl
 Concen: 10.469 ng
 RT: 9.14 min Scan# 1199
 Delta R.T. -0.01 min
 Lab File: BF101653.D
 Acq: 22 Dec 2017 15:10

Instrument :
 BNA_F
 ClientSampleId :
 PL-01-121917-ADL

Tgt Ion:172 Resp: 190049
 Ion Ratio Lower Upper
 172 100
 171 36.0 29.7 44.5
 170 24.4 19.6 29.4

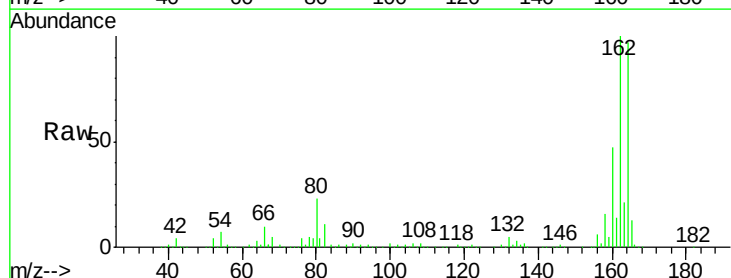


Abundance Ion 172.00 (171.70 to 172.70): E
 Ion 171.00 (170.70 to 171.70): E
 Ion 170.00 (169.70 to 170.70): E

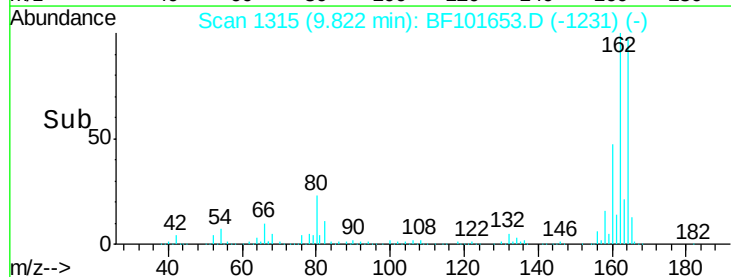
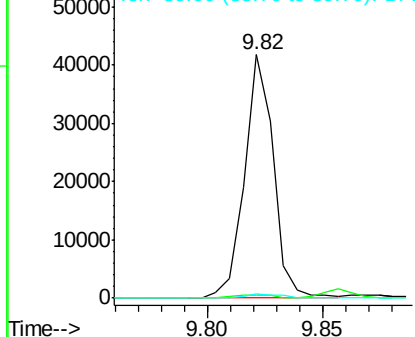


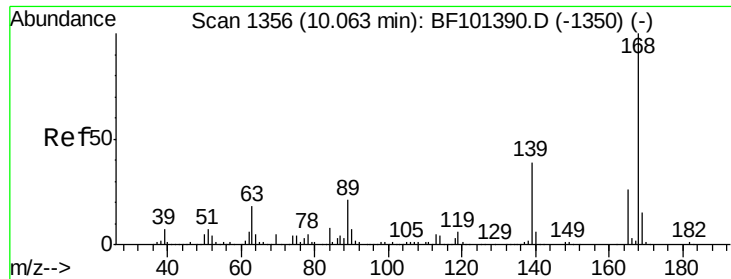
#50
 2,6-Dinitrotoluene
 Concen: 7.942 ng
 RT: 9.82 min Scan# 1315
 Delta R.T. 0.19 min
 Lab File: BF101653.D
 Acq: 22 Dec 2017 15:10

Tgt Ion:165 Resp: 36560
 Ion Ratio Lower Upper
 165 100
 63 1.4 44.7 67.1#
 89 1.7 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

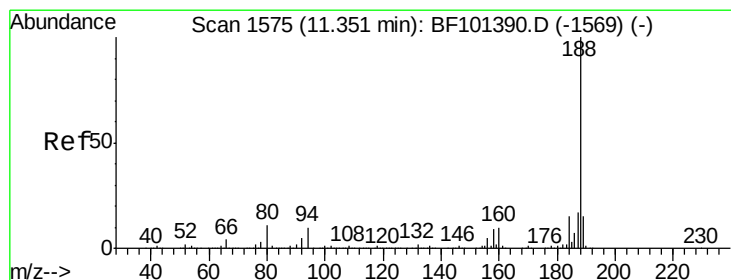
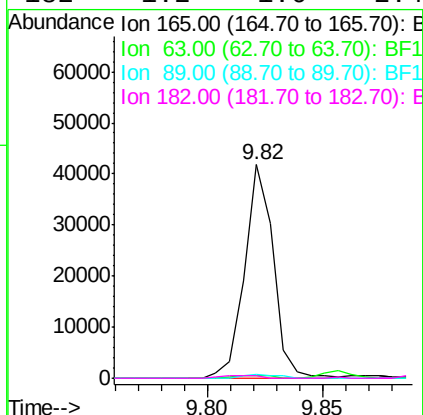
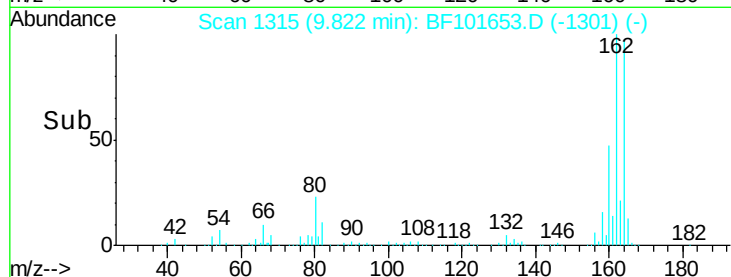
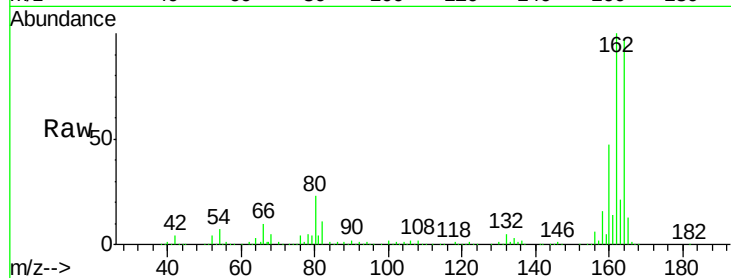




#56
 2,4-Dinitrotoluene
 Concen: 7.049 ng
 RT: 9.82 min Scan# 1315
 Delta R.T. -0.22 min
 Lab File: BF101653.D
 Acq: 22 Dec 2017 15:10

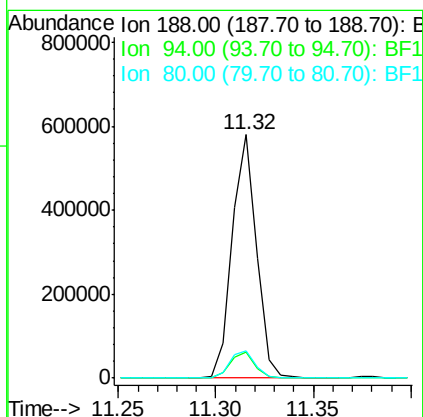
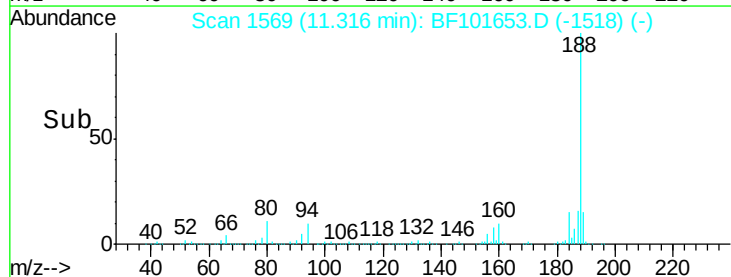
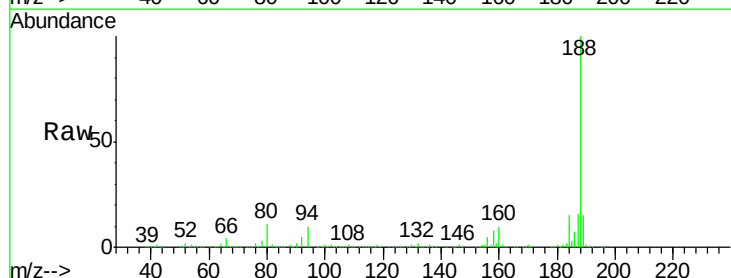
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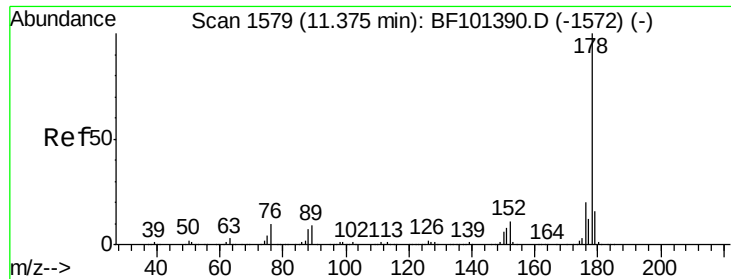
Tgt Ion:165 Resp: 36560
 Ion Ratio Lower Upper
 165 100
 63 1.4 36.4 54.6#
 89 1.7 57.8 86.6#
 182 1.2 1.6 2.4#



#63
 Phenanthrene-d10
 Concen: 20.000 ng
 RT: 11.32 min Scan# 1569
 Delta R.T. 0.00 min
 Lab File: BF101653.D
 Acq: 22 Dec 2017 15:10

Tgt Ion:188 Resp: 501086
 Ion Ratio Lower Upper
 188 100
 94 10.5 8.5 12.7
 80 11.4 9.2 13.8





#70

Phenanthrene

Concen: 11.555 ng

RT: 11.34 min Scan# 1573

Delta R.T. -0.01 min

Lab File: BF101653.D

Acq: 22 Dec 2017 15:10

Instrument :

BNA_F

ClientSampleId :

PL-01-121917-ADL

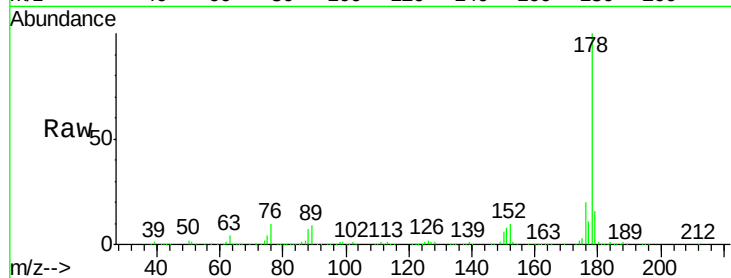
Tgt Ion:178 Resp: 321995

Ion Ratio Lower Upper

178 100

176 20.0 15.8 23.8

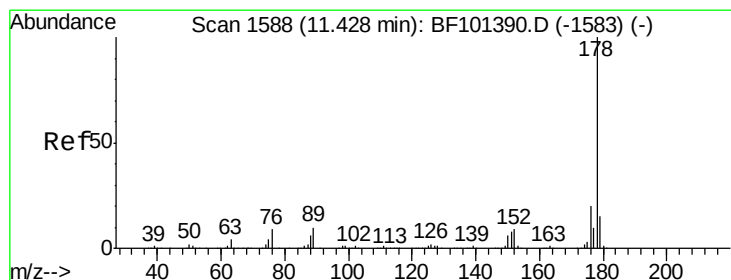
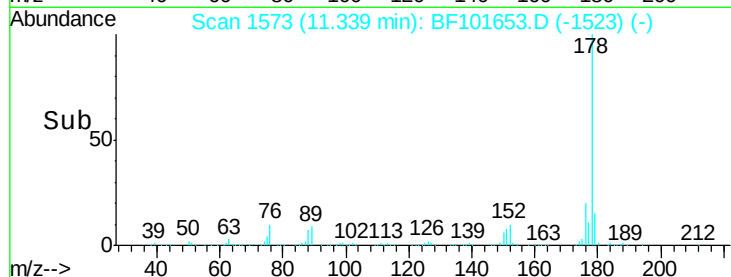
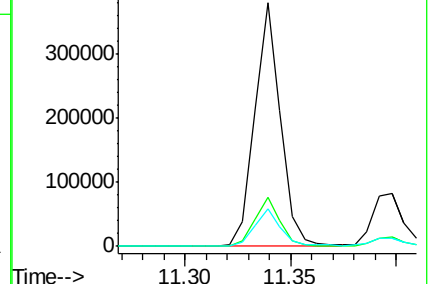
179 15.5 13.0 19.6



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: 3.000 ng

RT: 11.40 min Scan# 1583

Delta R.T. 0.00 min

Lab File: BF101653.D

Acq: 22 Dec 2017 15:10

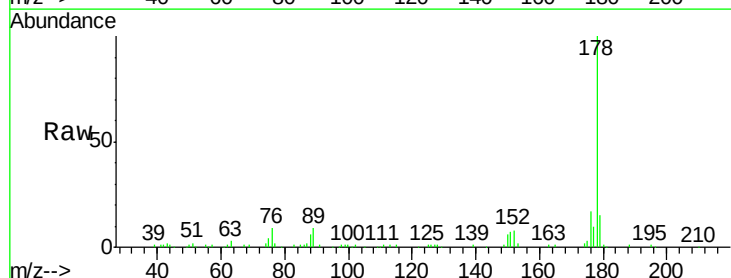
Tgt Ion:178 Resp: 85388

Ion Ratio Lower Upper

178 100

176 17.5 15.4 23.2

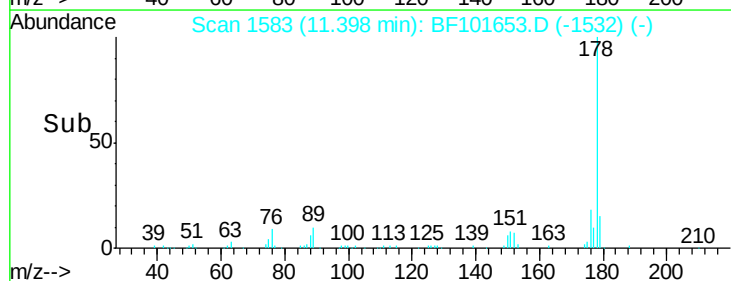
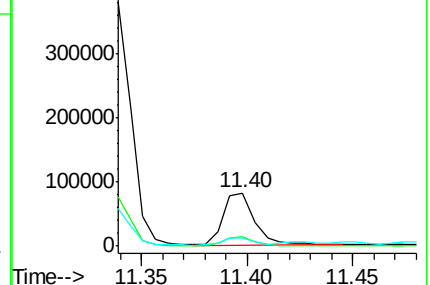
179 15.5 12.6 19.0

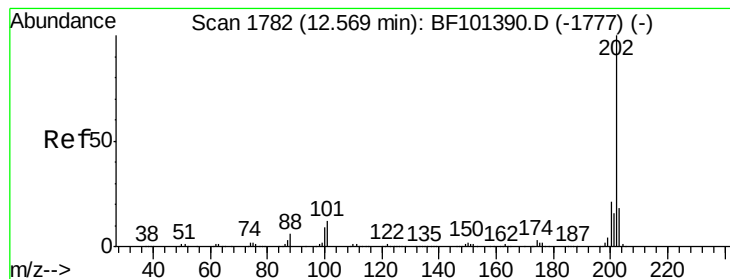


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#74

Fluoranthene

Concen: 26.312 ng

RT: 12.53 min Scan# 1776

Delta R.T. -0.00 min

Lab File: BF101653.D

Acq: 22 Dec 2017 15:10

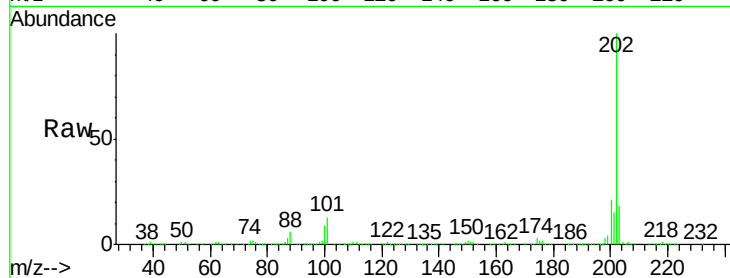
Instrument :

BNA_F

ClientSampleId :

PL-01-121917-ADL

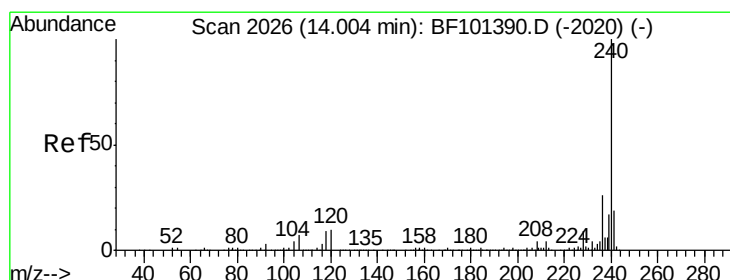
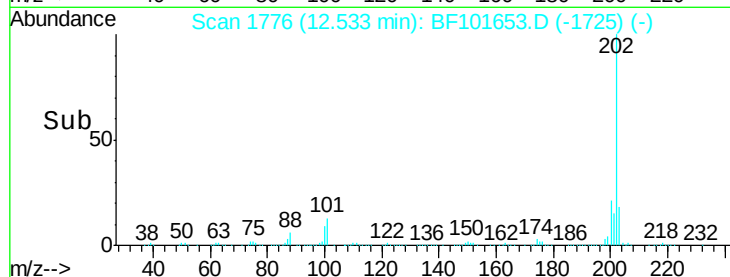
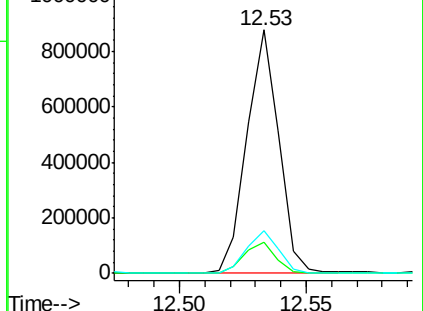
Tgt Ion:	202	Resp:	769617
Ion	Ratio	Lower	Upper
202	100		
101	12.9	0.0	34.1
203	17.6	0.0	38.1



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

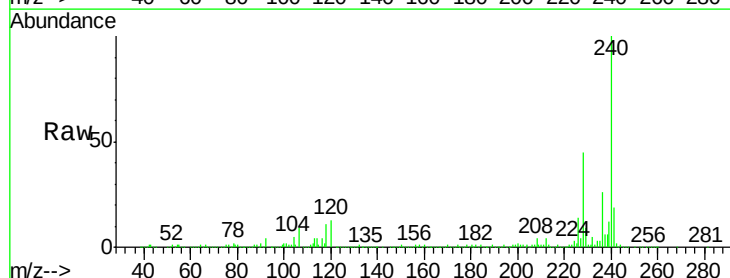
RT: 13.96 min Scan# 2019

Delta R.T. -0.01 min

Lab File: BF101653.D

Acq: 22 Dec 2017 15:10

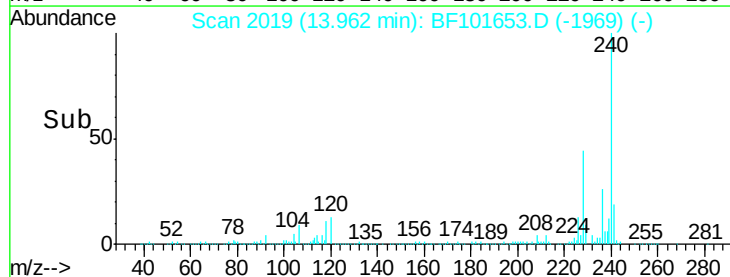
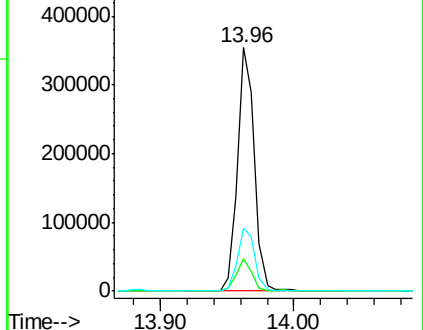
Tgt Ion:	240	Resp:	313803
Ion	Ratio	Lower	Upper
240	100		
120	13.4	9.5	14.3
236	25.8	20.7	31.1

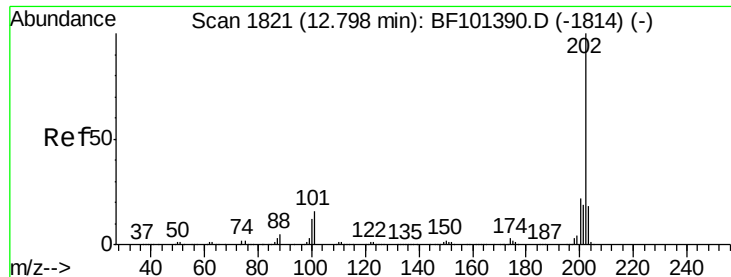


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E

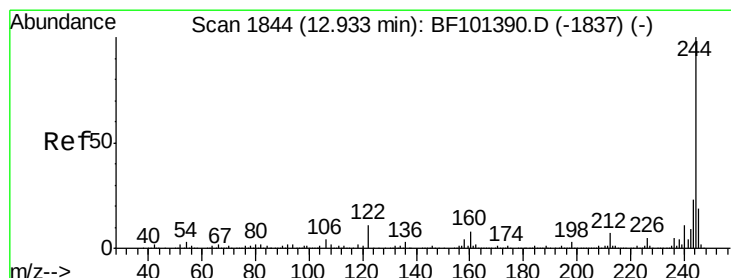
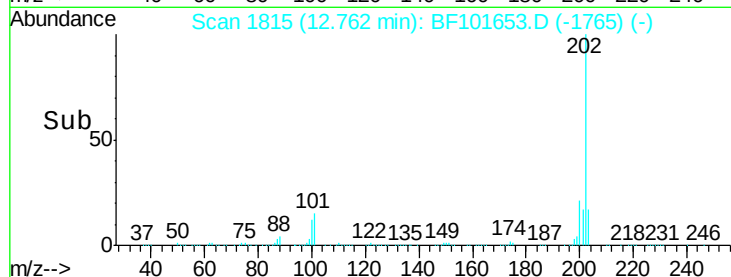
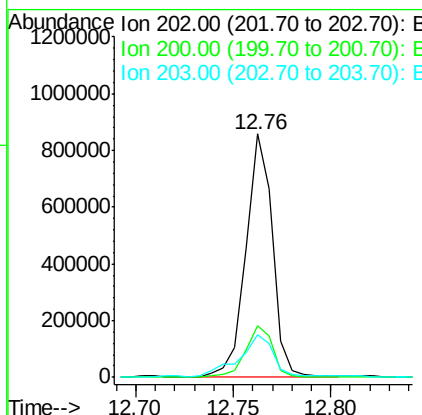
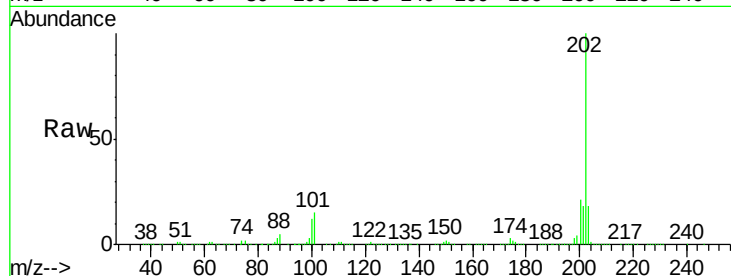




#77
 Pyrene
 Concen: 34.343 ng
 RT: 12.76 min Scan# 1815
 Delta R.T. -0.01 min
 Lab File: BF101653.D
 Acq: 22 Dec 2017 15:10

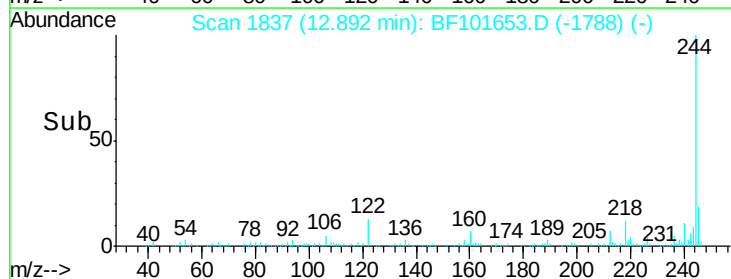
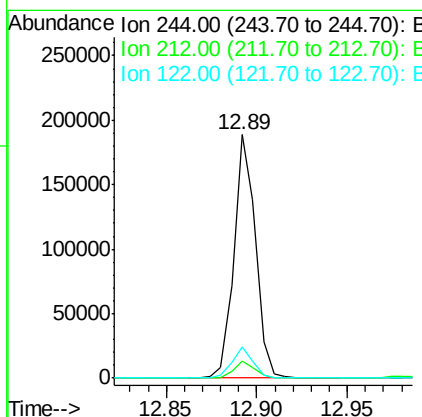
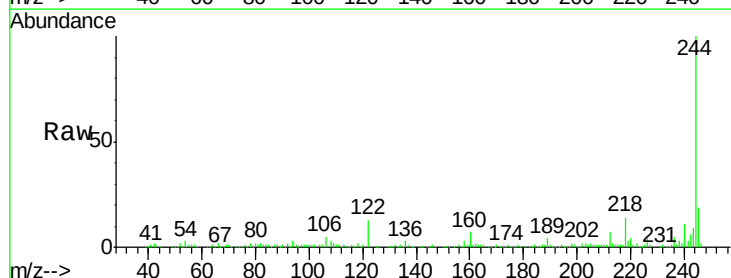
Instrument :
 BNA_F
 ClientSampleId :
 PL-01-121917-ADL

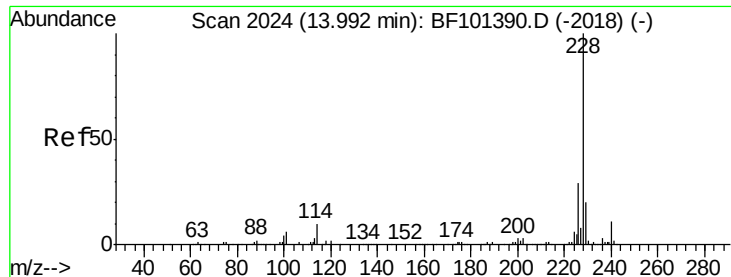
Tgt Ion	Ratio	Lower	Upper
202	100		
200	21.4	17.4	26.2
203	17.7	14.3	21.5



#78
 Terphenyl-d14
 Concen: 11.992 ng
 RT: 12.89 min Scan# 1837
 Delta R.T. -0.01 min
 Lab File: BF101653.D
 Acq: 22 Dec 2017 15:10

Tgt Ion	Ratio	Lower	Upper
244	100		
212	6.8	5.4	8.0
122	12.7	11.0	16.4





#80

Benzo(a)anthracene

Concen: 20.211 ng

RT: 13.96 min Scan# 2018

Delta R.T. -0.00 min

Lab File: BF101653.D

Acq: 22 Dec 2017 15:10

Instrument :

BNA_F

ClientSampleId :

PL-01-121917-ADL

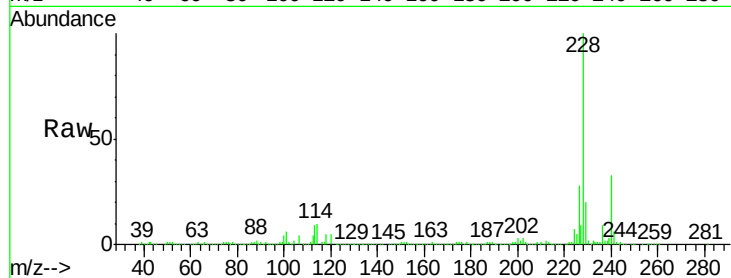
Tgt Ion:228 Resp: 418798

Ion Ratio Lower Upper

228 100

226 27.7 22.6 33.8

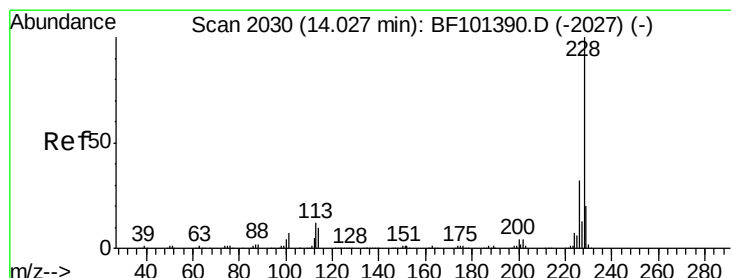
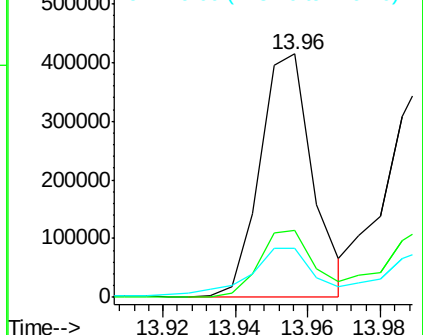
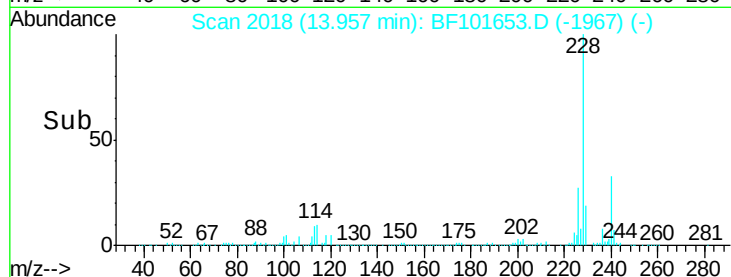
229 19.9 15.8 23.6



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: 20.276 ng

RT: 13.99 min Scan# 2024

Delta R.T. -0.01 min

Lab File: BF101653.D

Acq: 22 Dec 2017 15:10

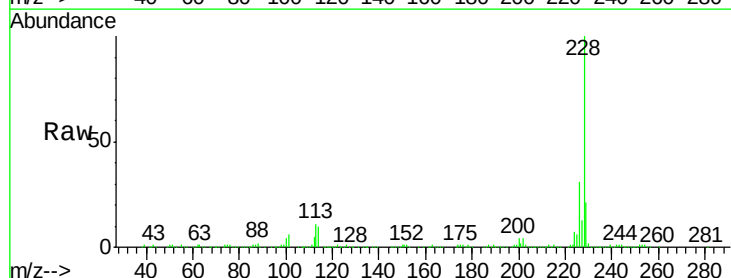
Tgt Ion:228 Resp: 396693

Ion Ratio Lower Upper

228 100

226 31.3 25.0 37.6

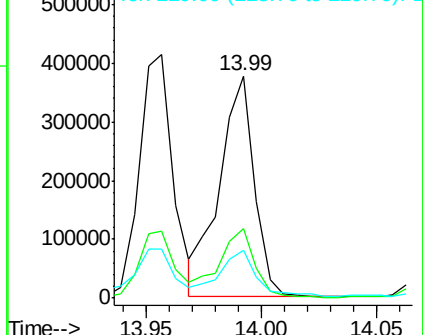
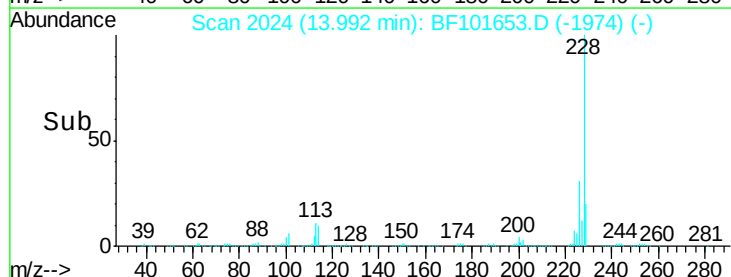
229 21.3 16.2 24.4

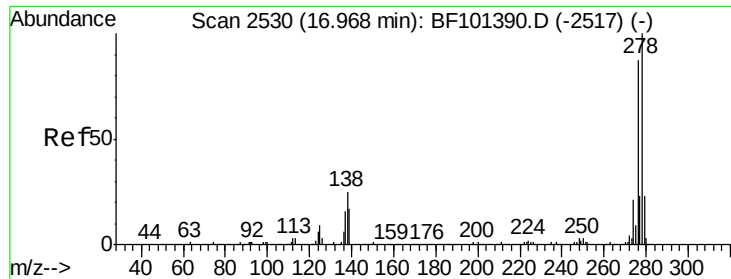


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E

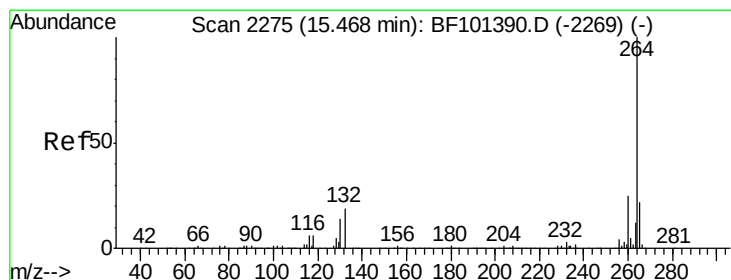
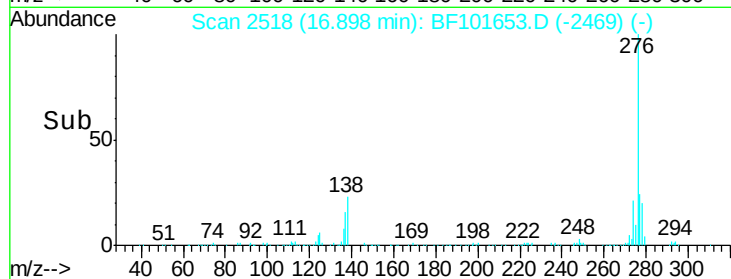
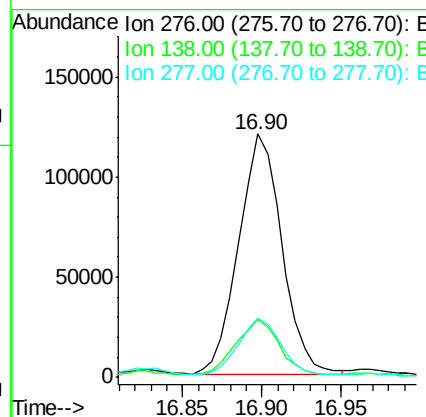
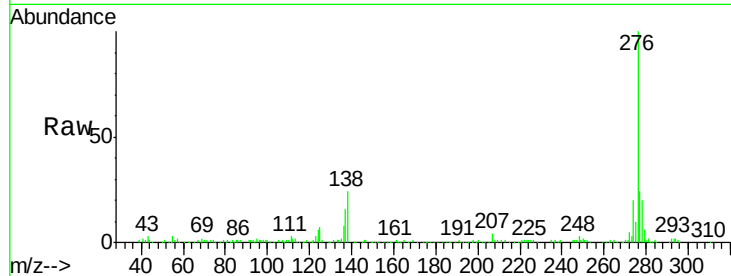




#85
 Indeno(1,2,3-cd)pyrene
 Concen: 13.084 ng
 RT: 16.90 min Scan# 2518
 Delta R.T. -0.01 min
 Lab File: BF101653.D
 Acq: 22 Dec 2017 15:10

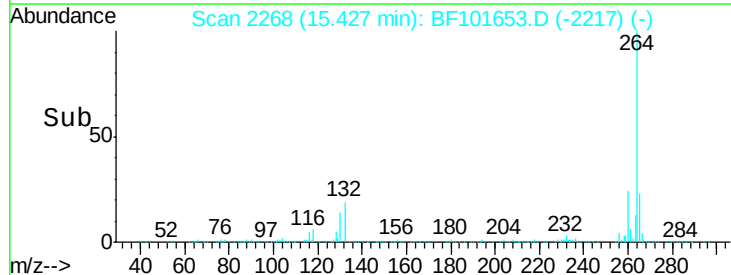
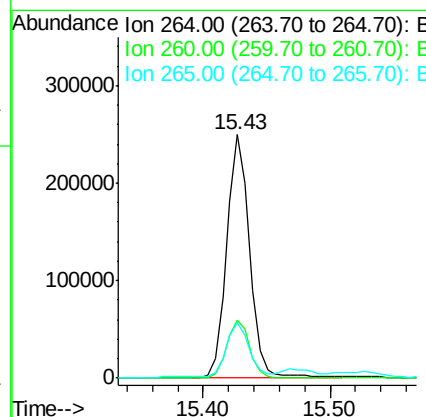
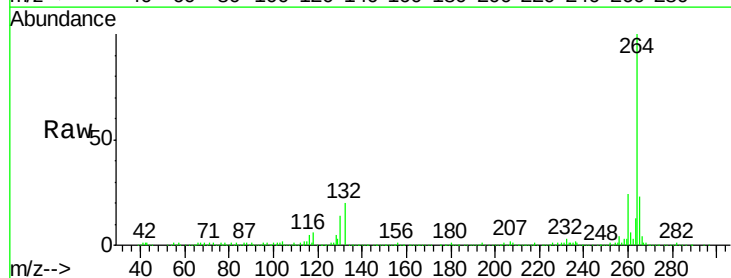
Instrument :
 BNA_F
 ClientSampleId :
 PL-01-121917-ADL

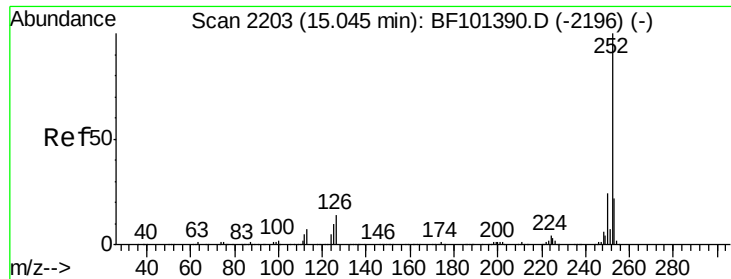
Tgt Ion	Ratio	Lower	Upper
276	100		
138	24.1	25.0	37.6#
277	23.6	20.1	30.1



#86
 Perylene-d12
 Concen: 20.000 ng
 RT: 15.43 min Scan# 2268
 Delta R.T. 0.00 min
 Lab File: BF101653.D
 Acq: 22 Dec 2017 15:10

Tgt Ion	Ratio	Lower	Upper
264	100		
260	24.0	19.2	28.8
265	22.8	17.5	26.3





#87

Benzo(b)fluoranthene

Concen: 32.944 ng

RT: 15.00 min Scan# 2196

Delta R.T. -0.01 min

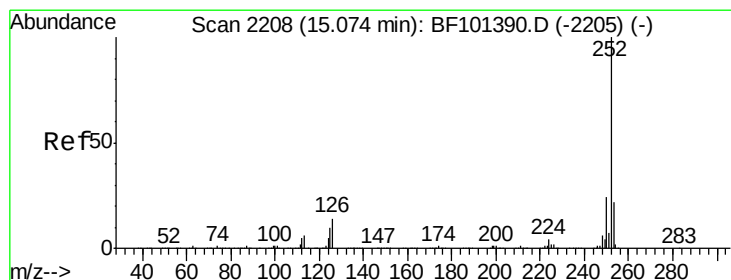
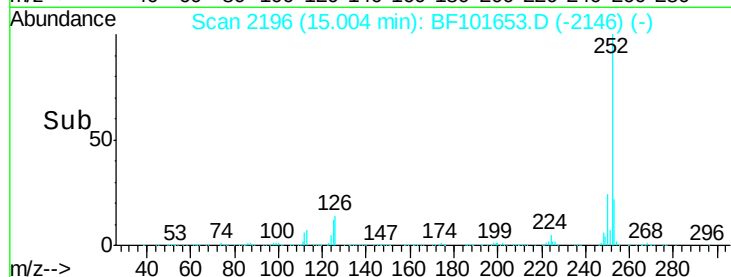
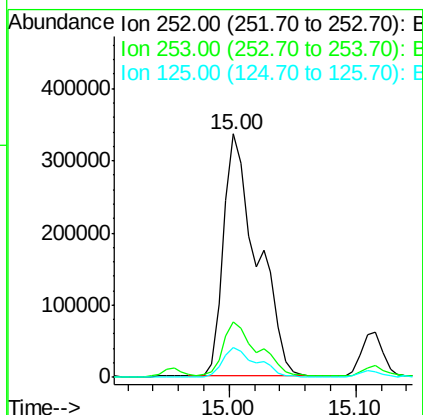
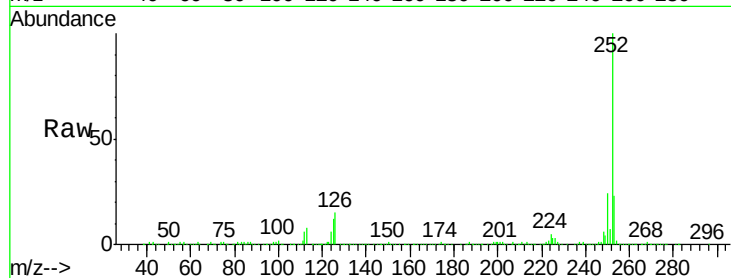
Lab File: BF101653.D

Acq: 22 Dec 2017 15:10

Instrument :
BNA_F
ClientSampleId :
PL-01-121917-ADL

Tgt Ion:252 Resp: 621687

Ion	Ratio	Lower	Upper
252	100		
253	22.6	17.0	25.6
125	12.2	9.0	13.6



#88

Benzo(k)fluoranthene

Concen: 33.884 ng

RT: 15.00 min Scan# 2196

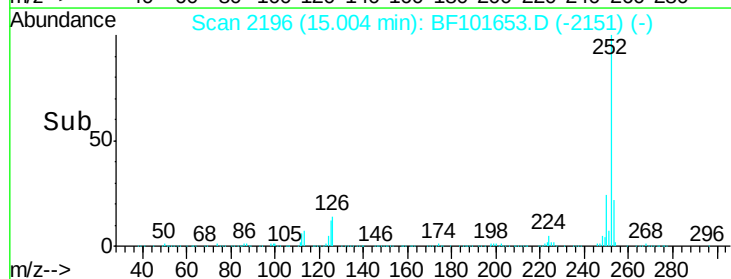
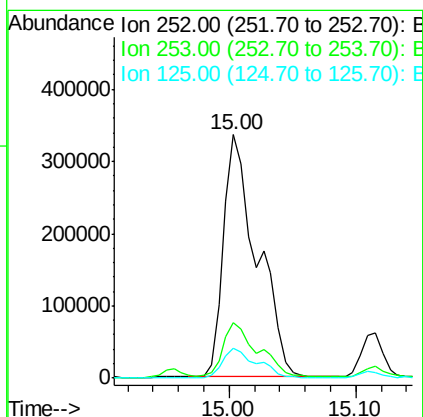
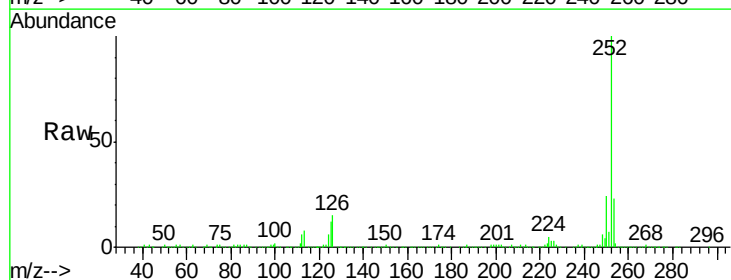
Delta R.T. -0.04 min

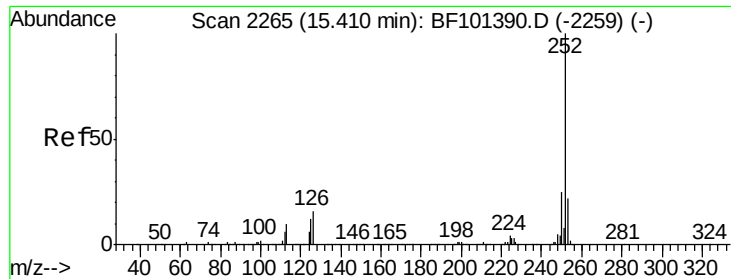
Lab File: BF101653.D

Acq: 22 Dec 2017 15:10

Tgt Ion:252 Resp: 621687

Ion	Ratio	Lower	Upper
252	100		
253	22.6	17.9	26.9
125	12.2	10.2	15.2





#89

Benzo(a)pyrene

Concen: 20.693 ng

RT: 15.37 min Scan# 2258

Delta R.T. -0.01 min

Lab File: BF101653.D

Acq: 22 Dec 2017 15:10

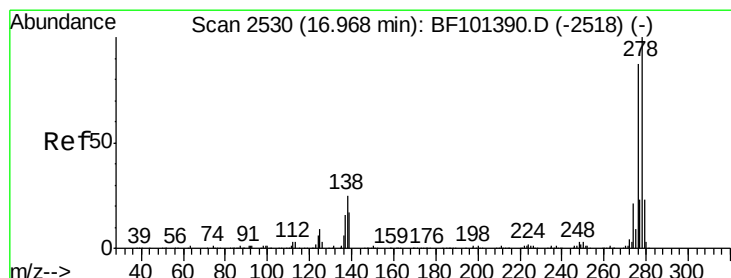
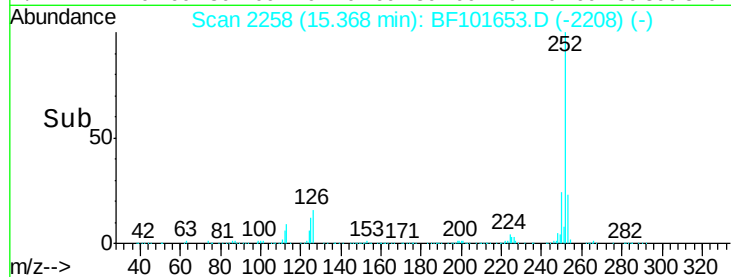
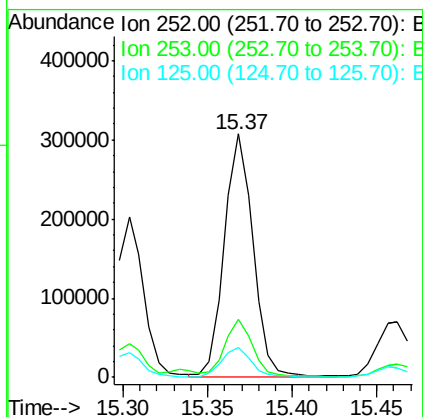
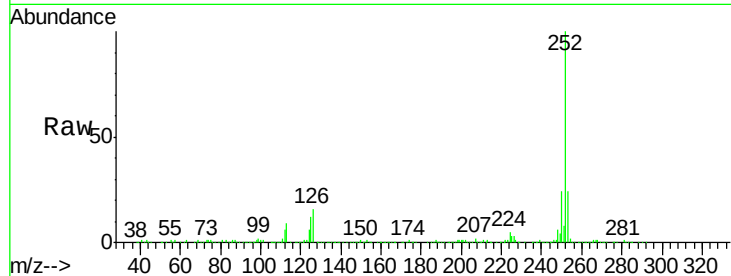
Instrument :

BNA_F

ClientSampleId :

PL-01-121917-ADL

Tgt Ion:	252	Resp:	359978
Ion	Ratio	Lower	Upper
252	100		
253	23.7	17.1	25.7
125	12.3	9.8	14.6



#90

Dibenzo(a,h)anthracene

Concen: 2.781 ng

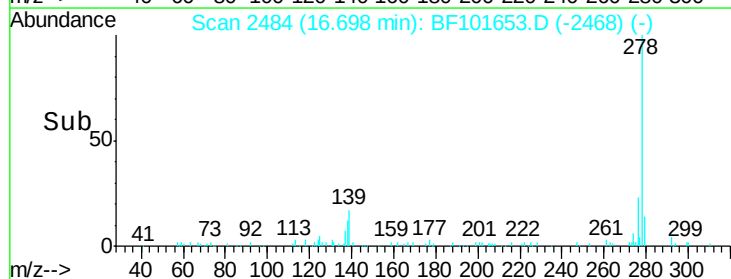
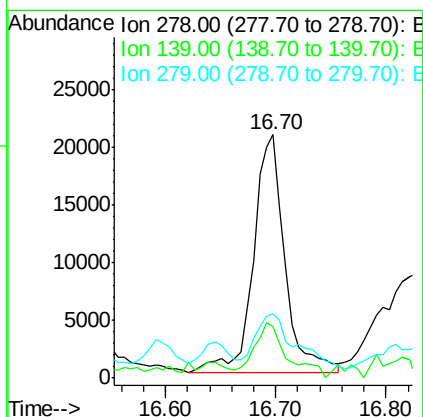
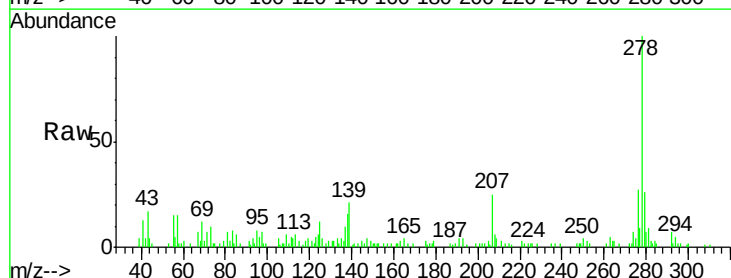
RT: 16.70 min Scan# 2484

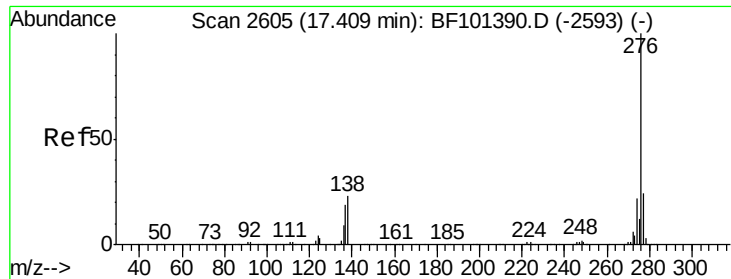
Delta R.T. -0.21 min

Lab File: BF101653.D

Acq: 22 Dec 2017 15:10

Tgt Ion:	278	Resp:	41530
Ion	Ratio	Lower	Upper
278	100		
139	21.3	15.9	23.9
279	26.5	19.0	28.4





#91

Benzo(g,h,i)perylene

Concen: 15.124 ng

RT: 17.34 min Scan# 2594

Delta R.T. -0.00 min

Lab File: BF101653.D

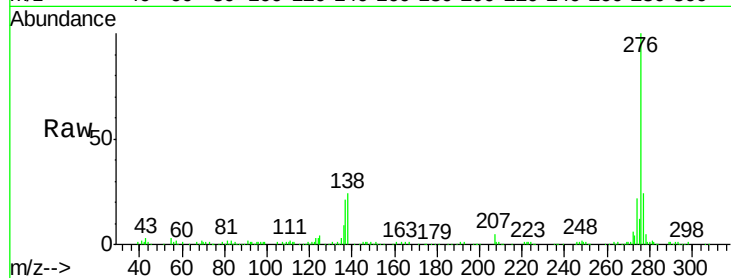
Acq: 22 Dec 2017 15:10

Instrument :

BNA_F

ClientSampleId :

PL-01-121917-ADL



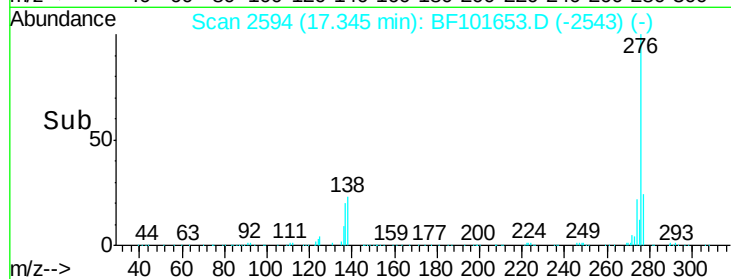
Tgt Ion: 276 Resp: 223681

Ion Ratio Lower Upper

276 100

277 24.5 17.9 26.9

138 24.3 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

