

Data Path : Z:\HPCHEM1\BNA F\DATA\BF071717\
 Data File : BF096832.D
 Acq On : 17 Jul 2017 21:09
 Operator : SJ/JU
 Sample : I4203-11
 Misc :
 ALS Vial : 24 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 NB-SB03A

Manual Integrations
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mohammad
 7/20/2017 8:38:44 AM

Quant Time: Jul 18 04:13:41 2017
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF071317.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Jul 13 14:49:34 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.61	152	113003	20.00	ng	-0.02
21) Naphthalene-d8	7.90	136	462529	20.00	ng	-0.02
38) Acenaphthene-d10	9.64	164	154737	20.00	ng	-0.03
63) Phenanthrene-d10	11.12	188	227838	20.00	ng	-0.02
75) Chrysene-d12	13.76	240	155950	20.00	ng	-0.01
86) Perylene-d12	15.14	264	142034	20.00	ng	-0.02
System Monitoring Compounds						
5) 2-Fluorophenol	5.23	112	646232	85.99	ng	0.00
7) Phenol-d6	6.27	99	818191	90.72	ng	-0.01
23) Nitrobenzene-d5	7.17	82	478317	64.06	ng	-0.03
41) 2,4,6-Tribromophenol	10.43	330	97585	73.88	ng	-0.03
44) 2-Fluorobiphenyl	8.97	172	764200	78.03	ng	-0.03
78) Terphenyl-d14	12.70	244	421825	46.91	ng	-0.03
Target Compounds						Qvalue
10) Phenol	6.28	94	47247	4.634	ng	95
31) Naphthalene	7.92	128	2323041	106.022	ng	99
37) 2-Methylnaphthalene	8.61	142	1075358	76.982	ng	99
45) 1,1'-Biphenyl	9.07	154	319445	24.071	ng	99
48) Acenaphthylene	9.50	152	339776	21.822	ng	98
49) Dimethylphthalate	9.36	163	76718	6.585	ng	# 97
51) Acenaphthene	9.67	154	590973	64.251	ng	99
54) Dibenzofuran	9.85	168	887268	68.837	ng	100
57) Fluorene	10.19	166	823341	86.443	ng	97
70) Phenanthrene	11.16	178	3037162	245.163	ng	100
71) Anthracene	11.20	178	944988	75.445	ng	99
72) Carbazole	11.35	167	598651	49.355	ng	98
74) Fluoranthene	12.35	202	2566240	216.418	ng	99
77) Pyrene	12.57	202	2045303	144.511	ng	99
80) Benzo(a)anthracene	13.75	228	1186971	122.156	ng	99
82) Chrysene	13.79	228	914863	95.638	ng	97
85) Indeno(1,2,3-cd)pyrene	16.44	276	353613	39.708	ng	97
87) Benzo(b)fluoranthene	14.77	252	1045873m	122.092	ng	
88) Benzo(k)fluoranthene	14.79	252	363433m	44.803	ng	
89) Benzo(a)pyrene	15.09	252	670212	85.303	ng	# 93
90) Dibenzo(a,h)anthracene	16.44	278	98878	13.677	ng	# 84
91) Benzo(g,h,i)perylene	16.83	276	338480	43.722	ng	99

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

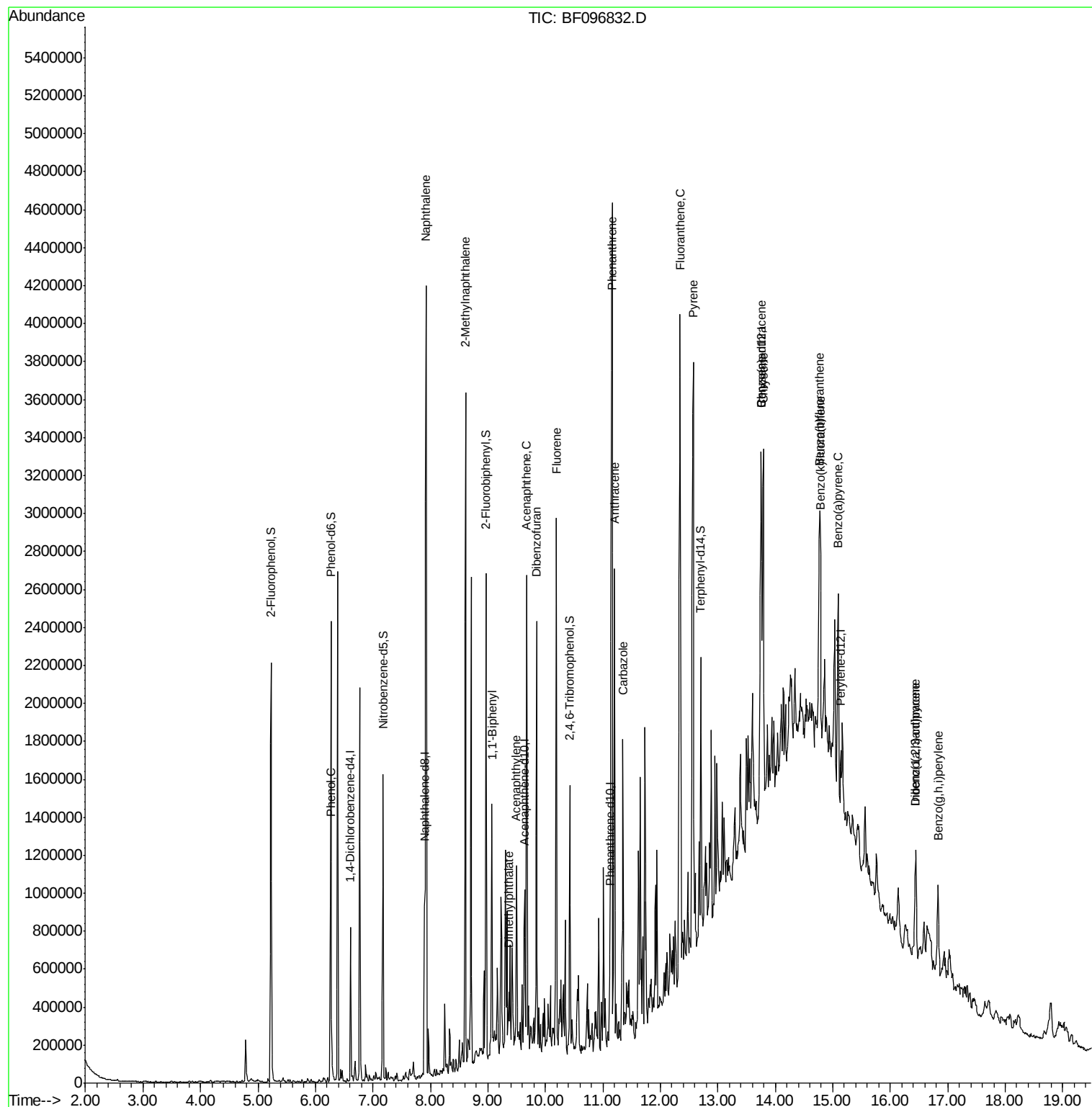
Data Path : Z:\HPCHEM1\BNA F\DATA\BF071717\
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Operator : SJ/JU
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Misc :
ALS Vial : 24 Sample Multiplier: 1

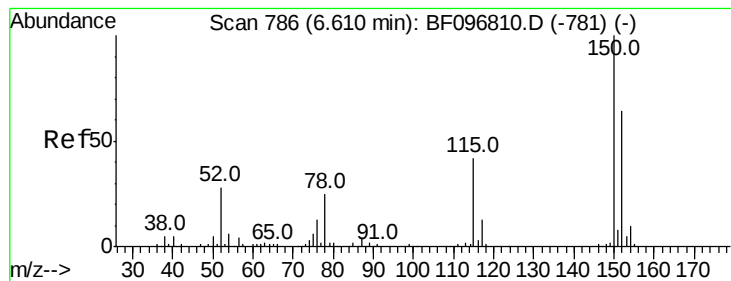
Instrument :
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7/20/2017 8:38:44 AM

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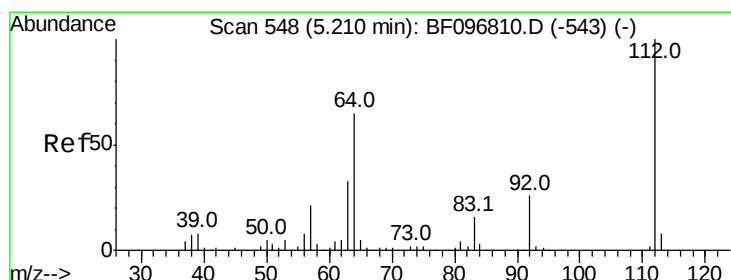
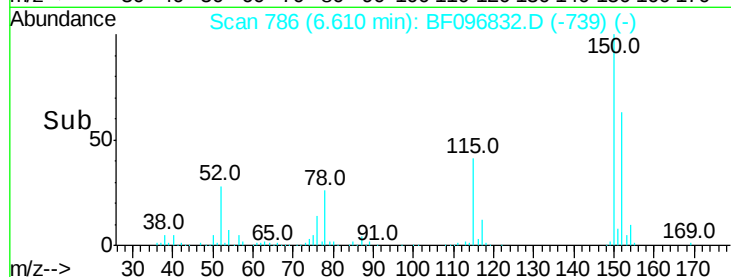
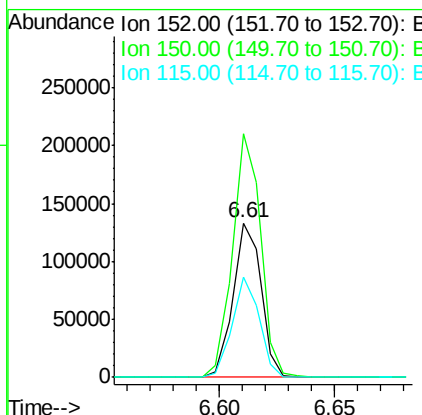
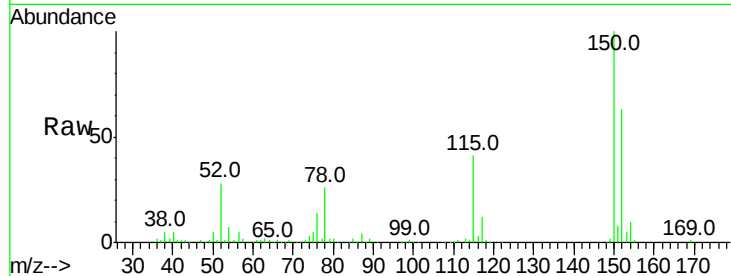
#1
 1,4-Dichlorobenzene-d4
 Concen: 20.000 ng
 RT: 6.61 min Scan# 786
 Delta R.T. -0.02 min
 Lab File: BF096832.D
 Acq: 17 Jul 2017 21:09

Instrument :
 BNA_F
 ClientSampleId :
 NB-SB03A

Tot Ion	Ratio	Lower	Upper
152	100		
150	157.9	126.2	189.2
115	64.8	52.2	78.2

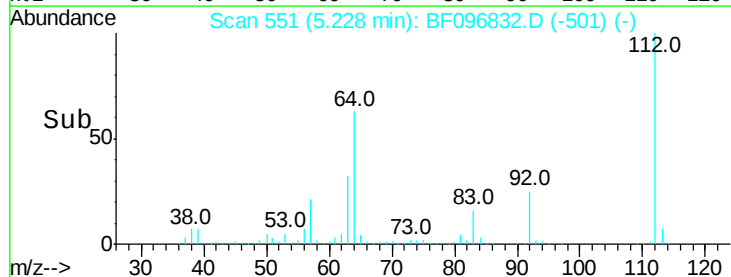
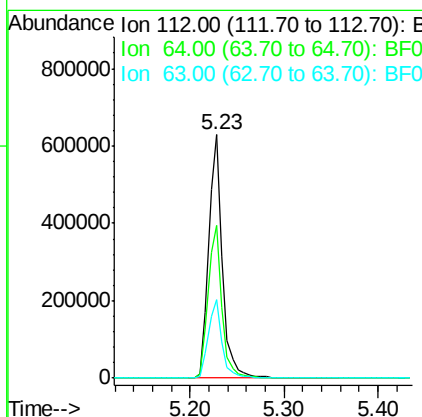
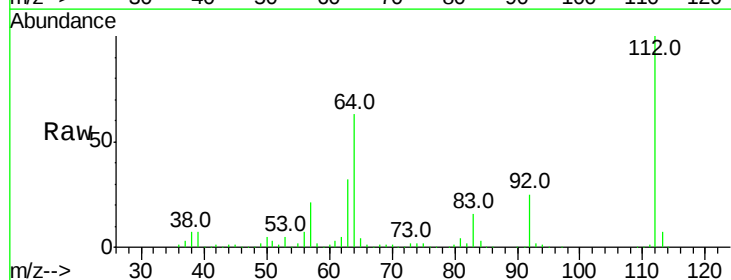
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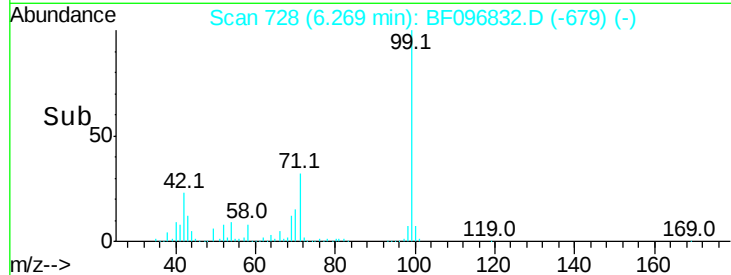
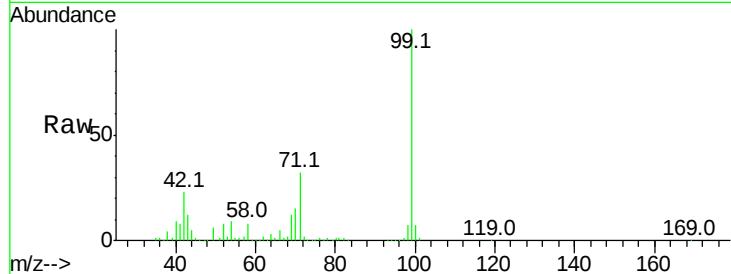
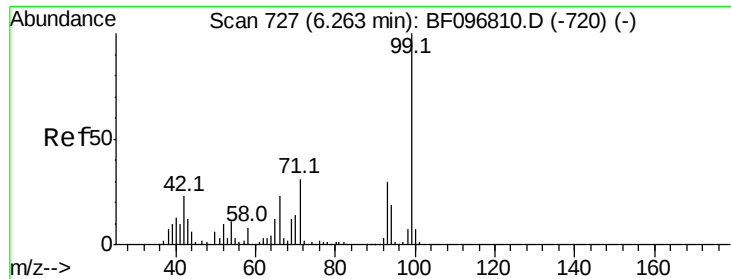
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#5
 2-Fluorophenol
 Concen: 85.986 ng
 RT: 5.23 min Scan# 551
 Delta R.T. -0.01 min
 Lab File: BF096832.D
 Acq: 17 Jul 2017 21:09

Tgt Ion	Ratio	Lower	Upper
112	100		
64	62.6	46.0	69.0
63	32.2	23.4	35.0





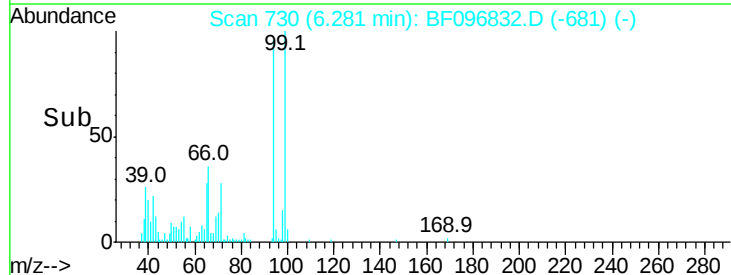
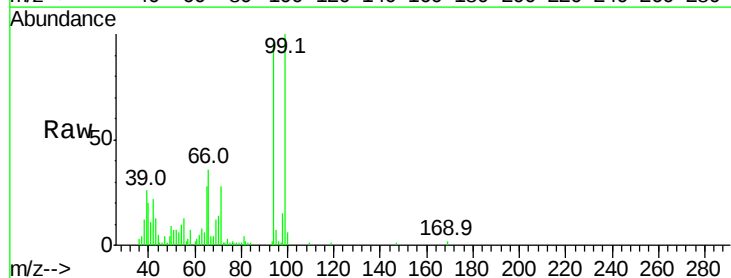
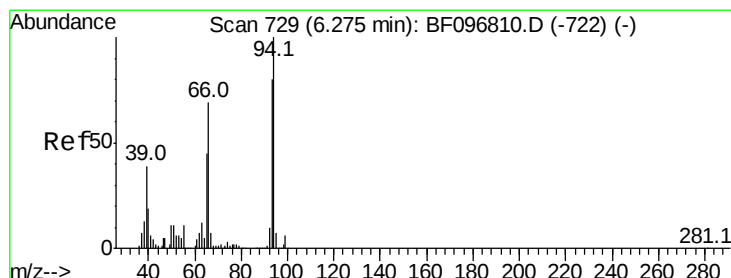
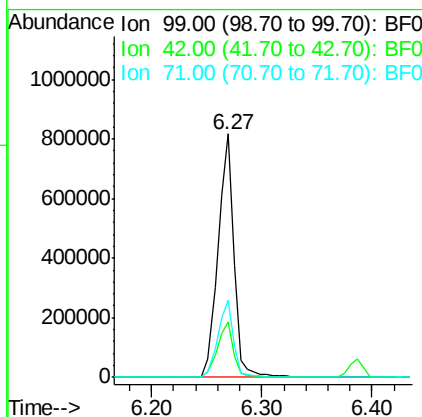
#7
Phenol-d6
Concen: 90.720 ng
RT: 6.27 min Scan# 728
Delta R.T. -0.01 min
Lab File: BF096832.D
Acq: 17 Jul 2017 21:09

Tot Ion	Ion	Ratio	Resp	Lower	Upper
99	100		818191		
42	22.9	13.5	20.3#		
71	31.6	24.5	36.7		

Instrument :
BNA_F
ClientSampleId :
NB-SB03A

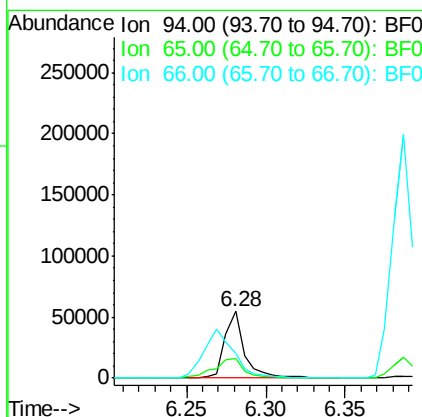
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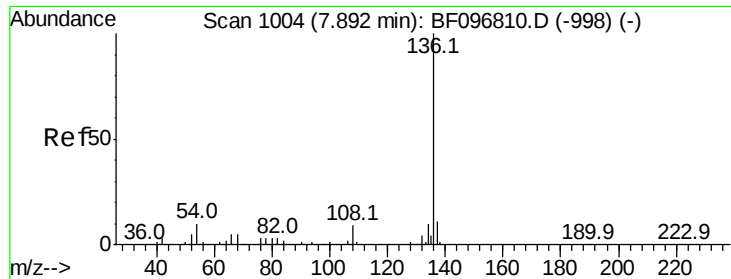
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#10
Phenol
Concen: 4.634 ng
RT: 6.28 min Scan# 730
Delta R.T. -0.01 min
Lab File: BF096832.D
Acq: 17 Jul 2017 21:09

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
94	100		47247		
65	29.2	9.9	49.9		
66	37.7	23.1	63.1		





#21

Naphthalene-d8

Concen: 20.000 ng

RT: 7.90 min Scan# 1005

Delta R.T. -0.02 min

Lab File: BF096832.D

Acq: 17 Jul 2017 21:09

Instrument :

BNA_F

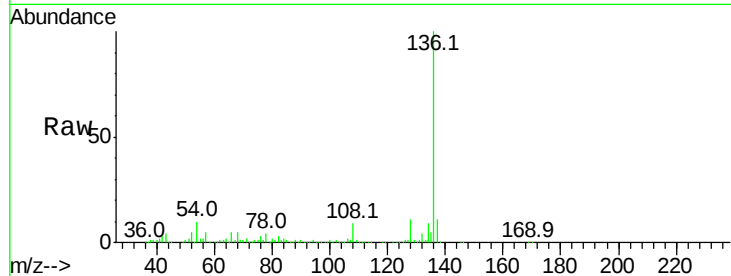
ClientSampleId :

NB-SB03A

Tot Ion	Ratio	Resp	Lower	Upper
136	100			
137	10.9	8.5	12.7	
54	9.9	4.9	7.3	
68	4.7	4.1	6.1	

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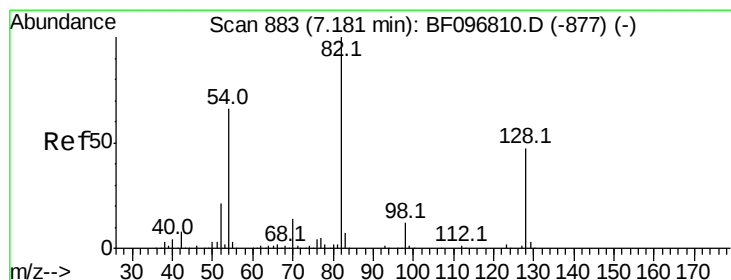
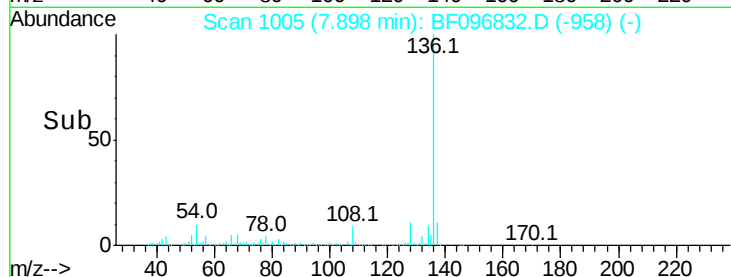
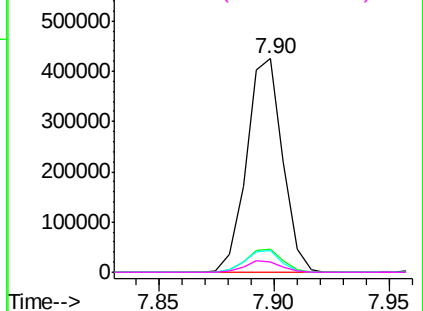


Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BF0

Ion 68.00 (67.70 to 68.70): BF0



#23

Nitrobenzene-d5

Concen: 64.055 ng

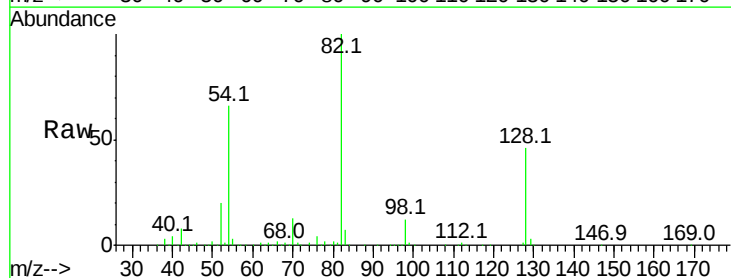
RT: 7.17 min Scan# 882

Delta R.T. -0.03 min

Lab File: BF096832.D

Acq: 17 Jul 2017 21:09

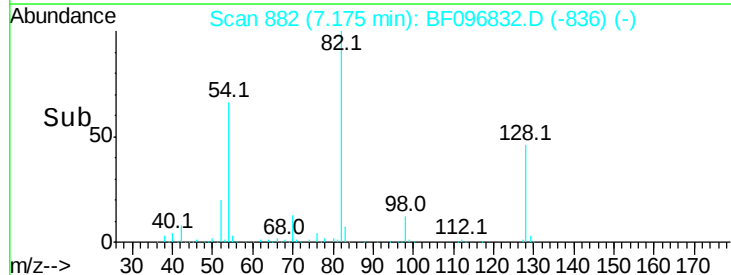
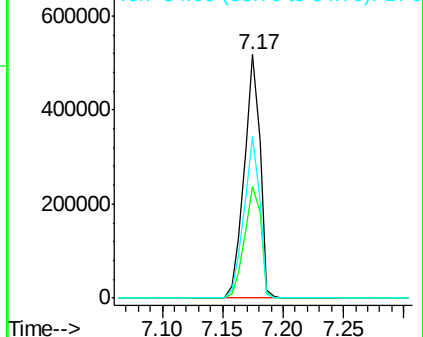
Tgt Ion	Ratio	Resp	Lower	Upper
82	100			
128	45.8	34.0	51.0	
54	66.3	42.2	63.2	

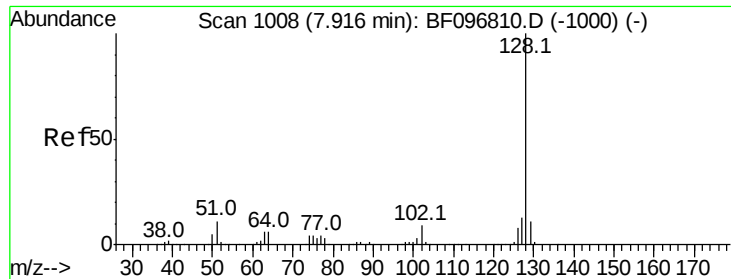


Abundance Ion 82.00 (81.70 to 82.70): BF0

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BF0





#31

Naphthalene

Concen: 106.022 ng

RT: 7.92 min Scan# 1009

Delta R.T. -0.02 min

Lab File: BF096832.D

Acq: 17 Jul 2017 21:09

Instrument :

BNA_F

ClientSampled :

NB-SB03A

Tot Ion:128 Resp: 2323041

Ion Ratio Lower Upper

128 100

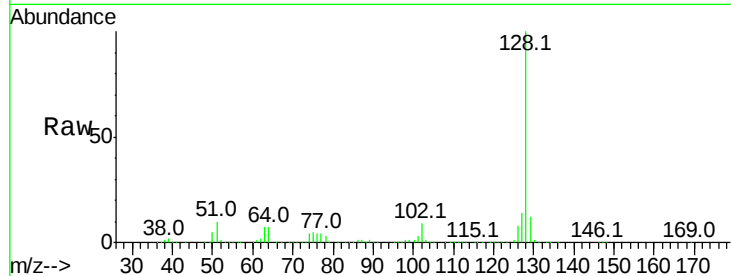
129 11.8 9.0 13.6

127 14.0 10.8 16.2

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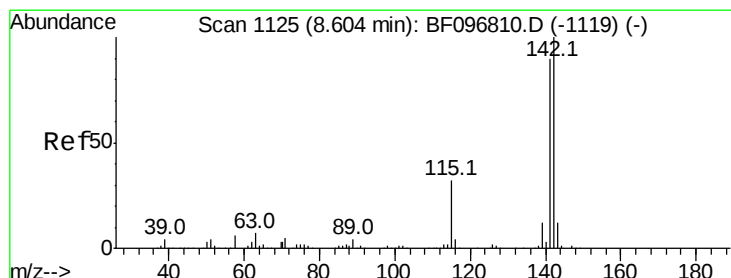
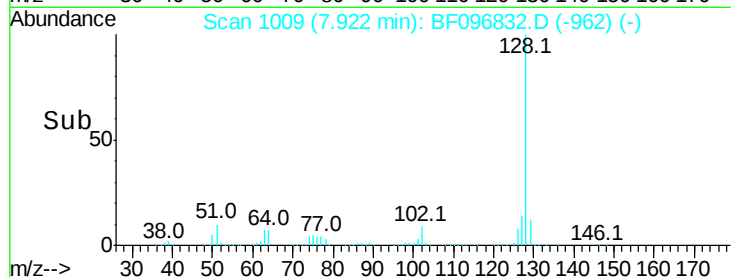
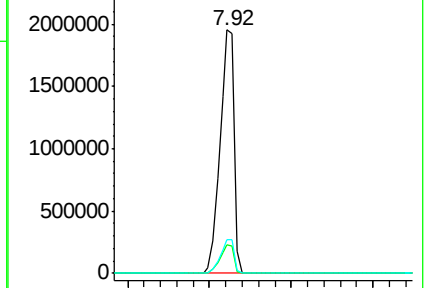
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Abundance Ion 128.00 (127.70 to 128.70): E

Ion 129.00 (128.70 to 129.70): E

Ion 127.00 (126.70 to 127.70): E



#37

2-Methylnaphthalene

Concen: 76.982 ng

RT: 8.61 min Scan# 1126

Delta R.T. -0.02 min

Lab File: BF096832.D

Acq: 17 Jul 2017 21:09

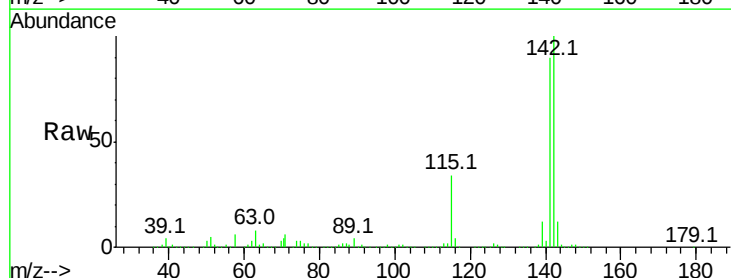
Tgt Ion:142 Resp: 1075358

Ion Ratio Lower Upper

142 100

141 89.7 71.3 106.9

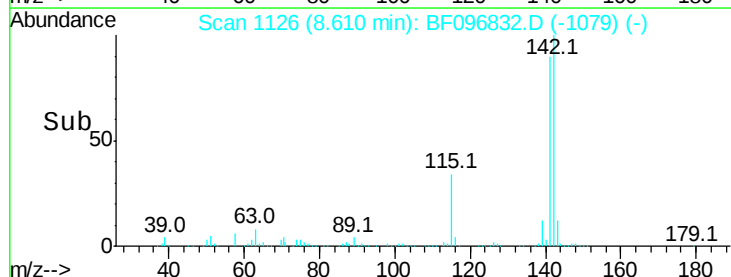
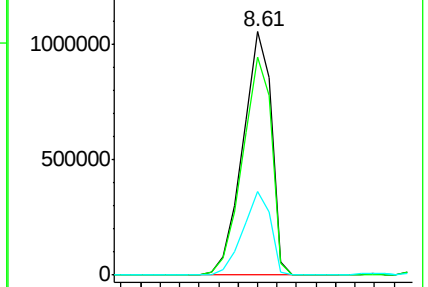
115 34.3 27.1 40.7

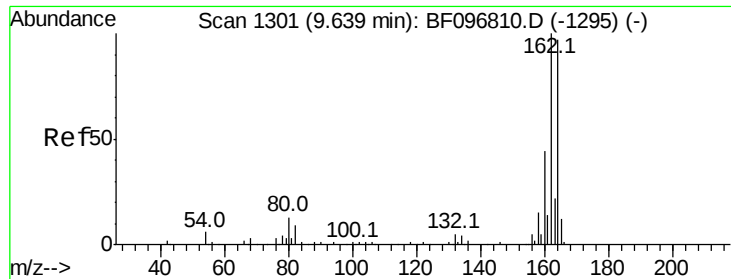


Abundance Ion 142.00 (141.70 to 142.70): E

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: 9.64 min Scan# 1301

Delta R.T. -0.03 min

Lab File: BF096832.D

Acq: 17 Jul 2017 21:09

Instrument :

BNA_F

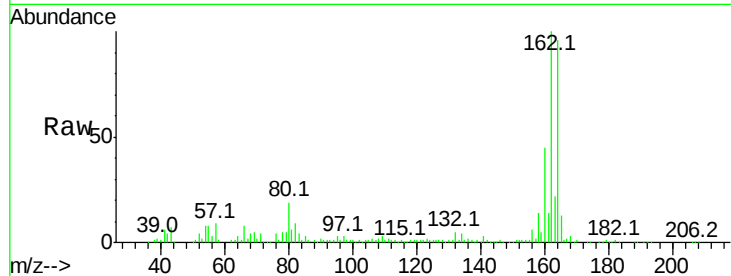
ClientSampleId :

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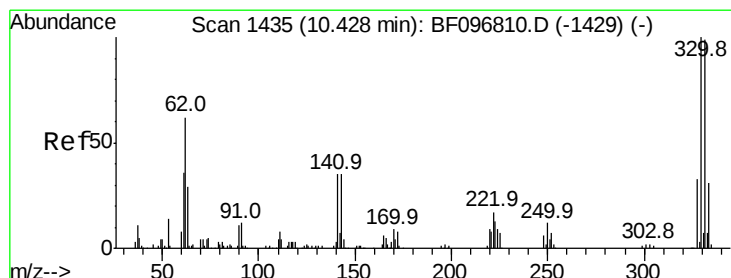
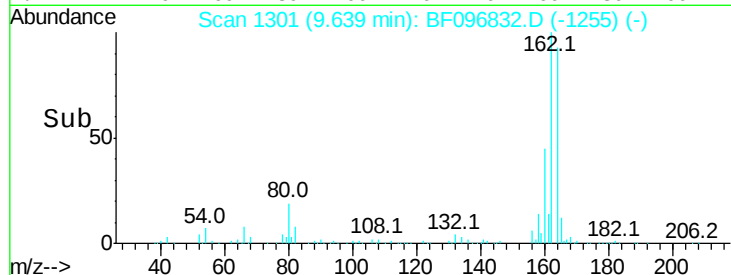
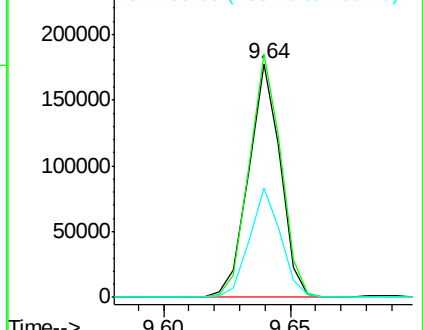
Tot Ion:	164	Resp:	154737
Ion Ratio	Lower	Upper	
164	100		
162	104.2	82.6	123.8
160	47.0	36.2	54.2

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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: 73.883 ng

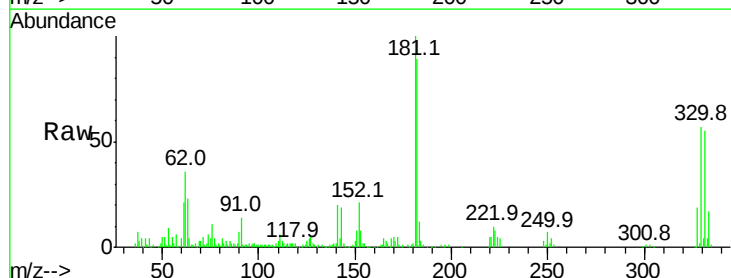
RT: 10.43 min Scan# 1435

Delta R.T. -0.03 min

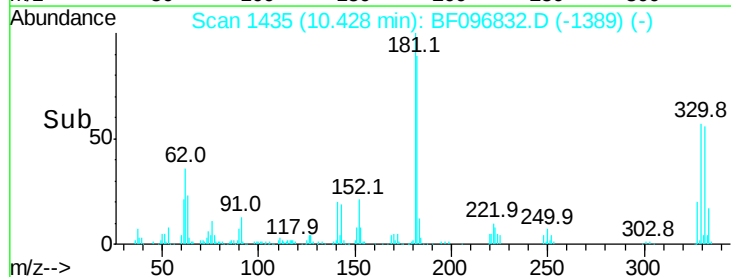
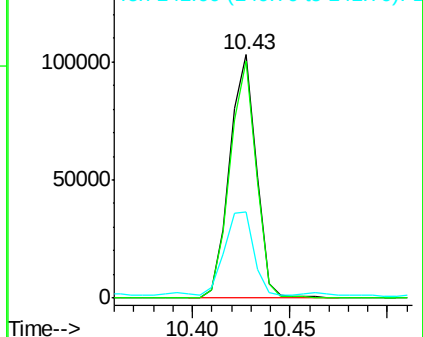
Lab File: BF096832.D

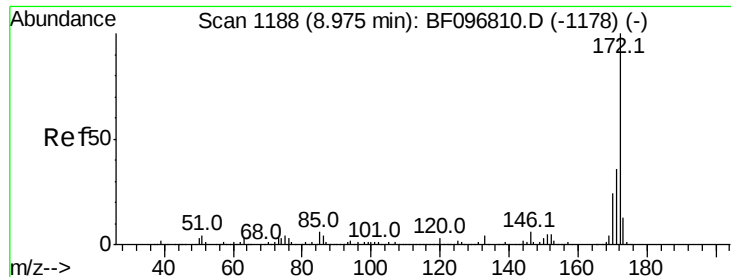
Acq: 17 Jul 2017 21:09

Tgt Ion:	330	Resp:	97585
Ion Ratio	Lower	Upper	
330	100		
332	95.5	76.6	115.0
141	38.6	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





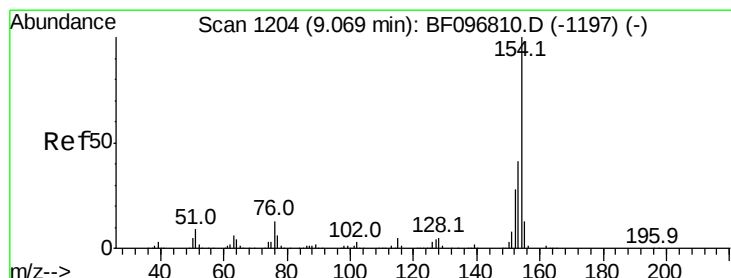
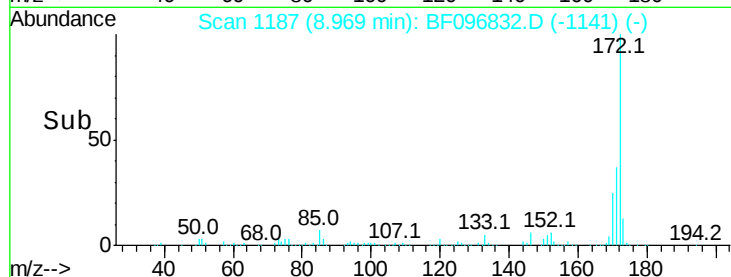
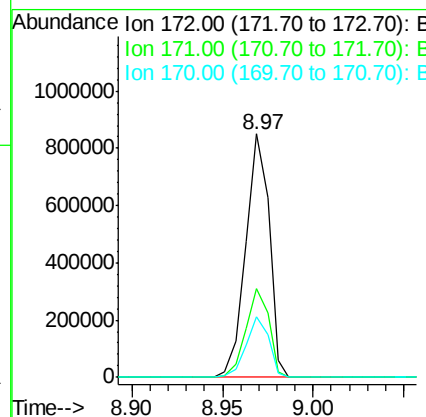
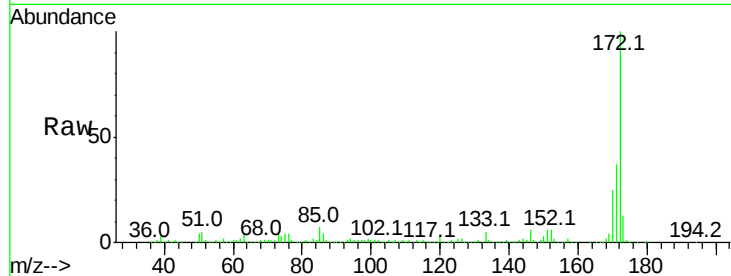
#44
2-Fluorobiphenyl
Concen: 78.028 ng
RT: 8.97 min Scan# 1187
Delta R.T. -0.03 min
Lab File: BF096832.D
Acq: 17 Jul 2017 21:09

Instrument :
BNA_F
ClientSampleId :
NB-SB03A

Tot Ion	Ratio	Lower	Upper
172	100		
171	36.7	29.6	44.4
170	24.6	19.8	29.8

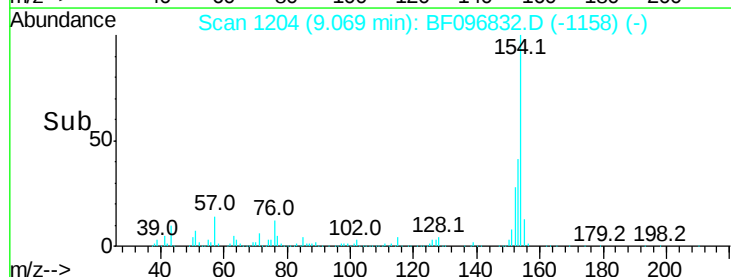
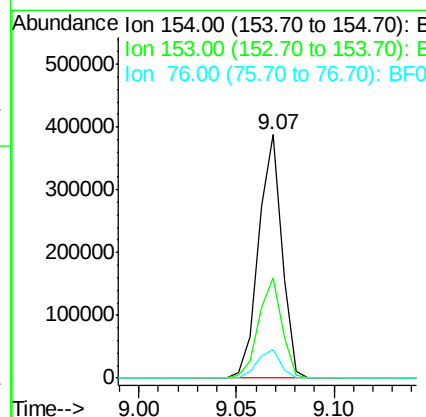
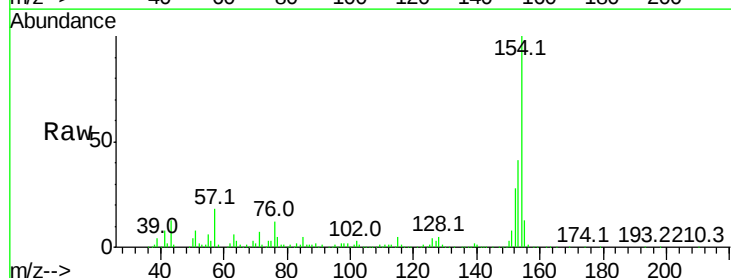
Manual Integrations
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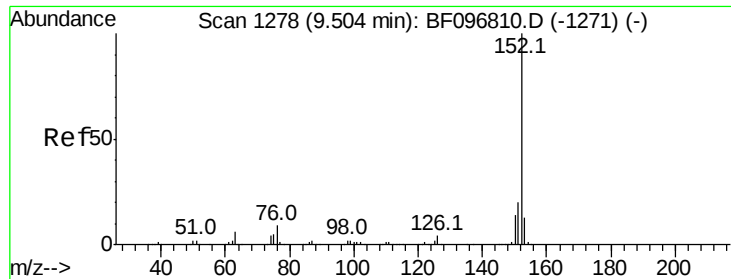
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#45
1,1'-Biphenyl
Concen: 24.071 ng
RT: 9.07 min Scan# 1204
Delta R.T. -0.03 min
Lab File: BF096832.D
Acq: 17 Jul 2017 21:09

Tgt Ion	Ratio	Lower	Upper
154	100		
153	41.2	21.2	61.2
76	11.6	0.0	29.9





#48

Acenaphthylene

Concen: 21.822 ng

RT: 9.50 min Scan# 1277

Delta R.T. -0.04 min

Lab File: BF096832.D

Acq: 17 Jul 2017 21:09

Instrument :

BNA_F

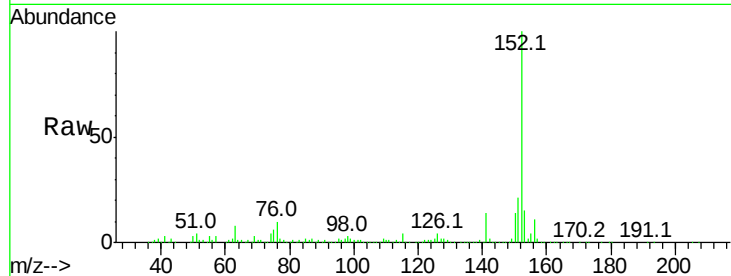
ClientSampleId :

NB-SB03A

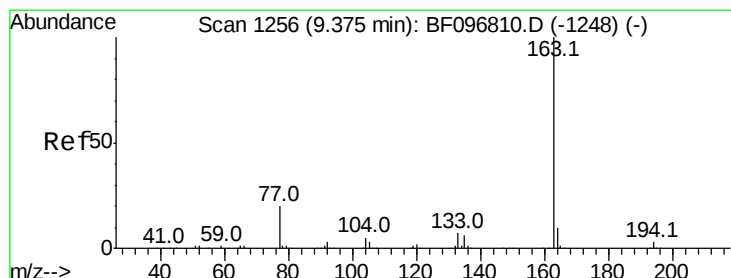
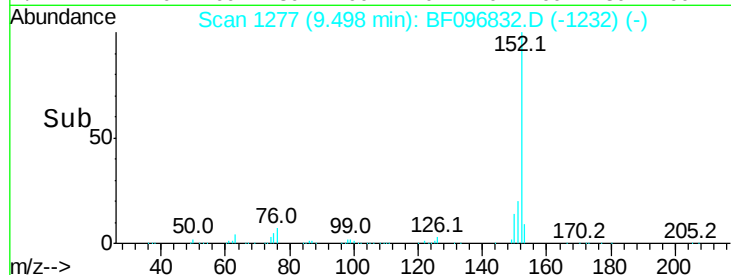
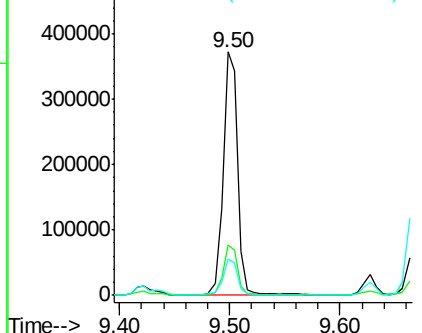
Tot Ion	152	Resp	339776
Ion Ratio	Lower	Upper	
152	100		
151	20.6	16.8	25.2
153	14.8	10.8	16.2

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Abundance Ion 152.00 (151.70 to 152.70): E
Ion 151.00 (150.70 to 151.70): E
Ion 153.00 (152.70 to 153.70): E



#49

Dimethylphthalate

Concen: 6.585 ng

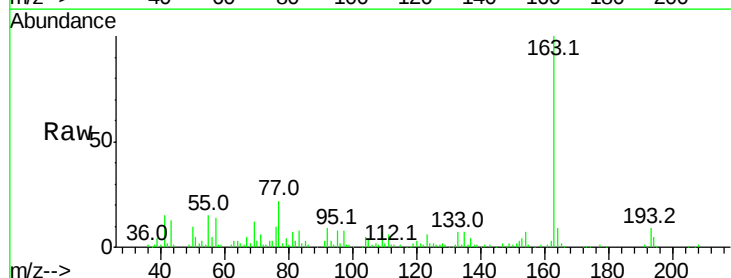
RT: 9.36 min Scan# 1254

Delta R.T. -0.04 min

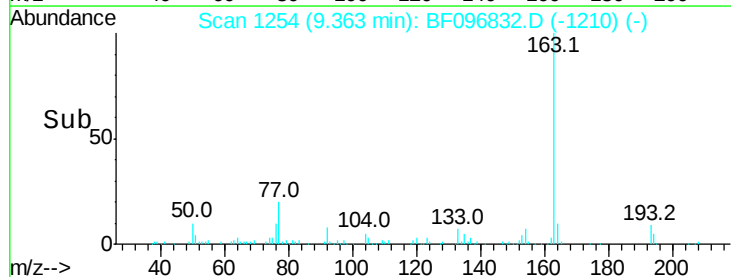
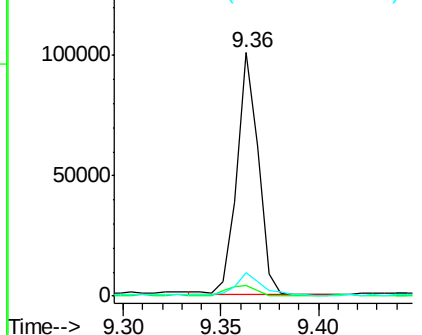
Lab File: BF096832.D

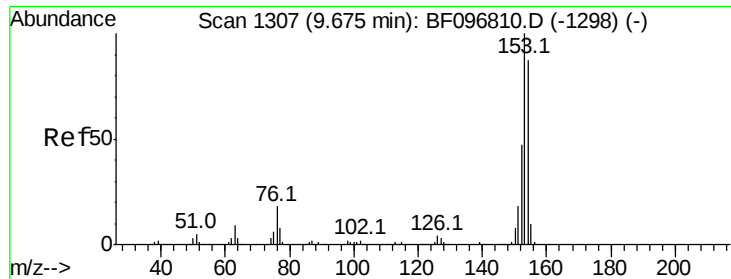
Acq: 17 Jul 2017 21:09

Tgt Ion	163	Resp	76718
Ion Ratio	Lower	Upper	
163	100		
194	4.6	2.6	4.0#
164	9.4	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





#51

Acenaphthene

Concen: 64.251 ng

RT: 9.67 min Scan# 1307

Delta R.T. -0.03 min

Lab File: BF096832.D

Acq: 17 Jul 2017 21:09

Instrument :

BNA_F

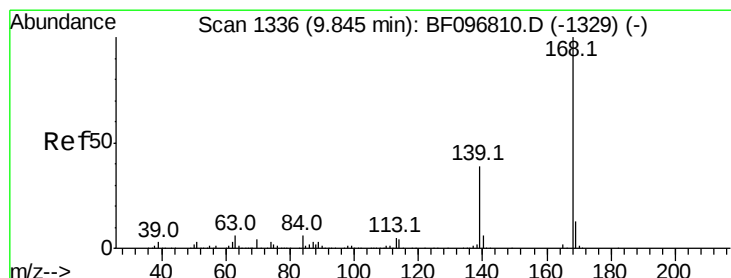
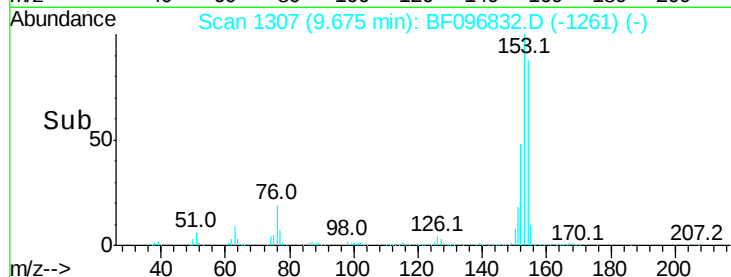
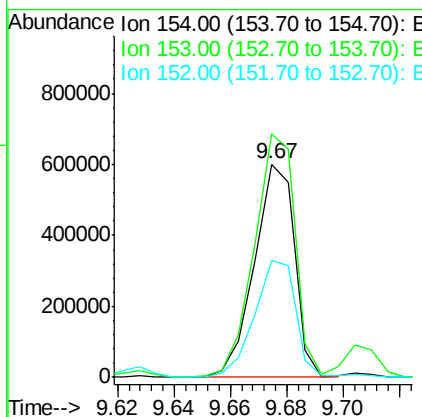
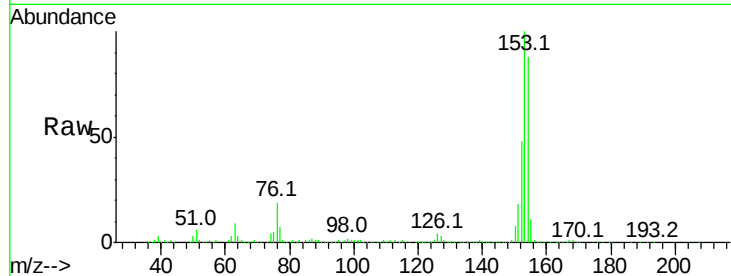
ClientSampleId :

NB-SB03A

Tot Ion:	154	Resp:	590973
Ion Ratio	Lower	Upper	
154	100		
153	114.3	90.5	135.7
152	54.6	43.6	65.4

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#54

Dibenzofuran

Concen: 68.837 ng

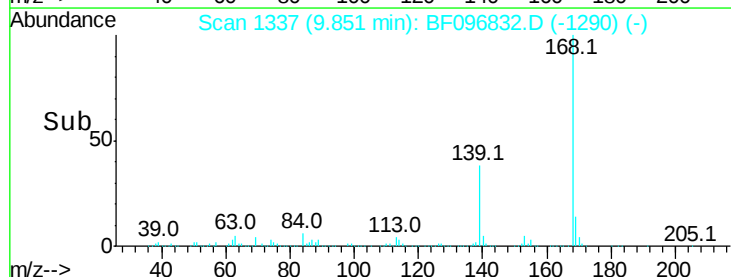
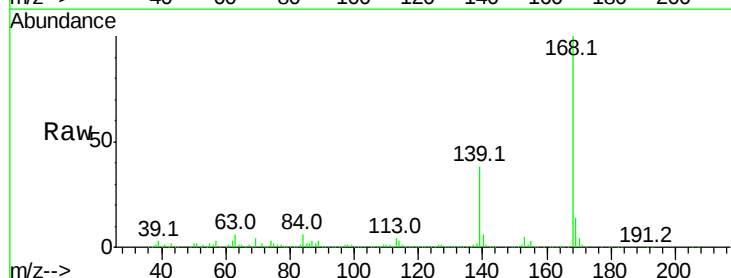
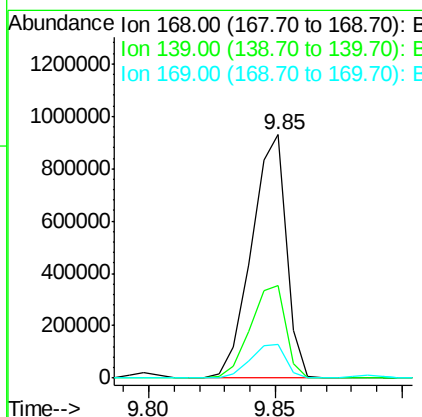
RT: 9.85 min Scan# 1337

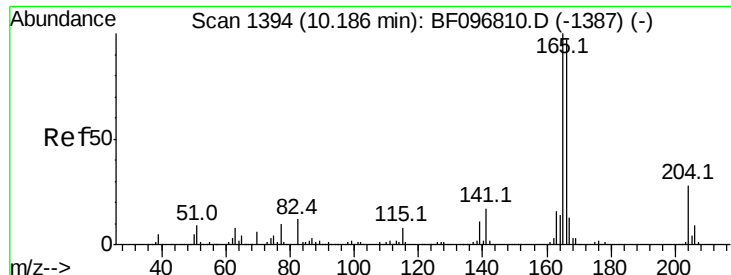
Delta R.T. -0.02 min

Lab File: BF096832.D

Acq: 17 Jul 2017 21:09

Tgt Ion:	168	Resp:	887268
Ion Ratio	Lower	Upper	
168	100		
139	38.2	30.6	45.8
169	13.6	10.8	16.2





#57

Fluorene

Concen: 86.443 ng

RT: 10.19 min Scan# 1395

Delta R.T. -0.02 min

Lab File: BF096832.D

Acq: 17 Jul 2017 21:09

Instrument :

BNA_F

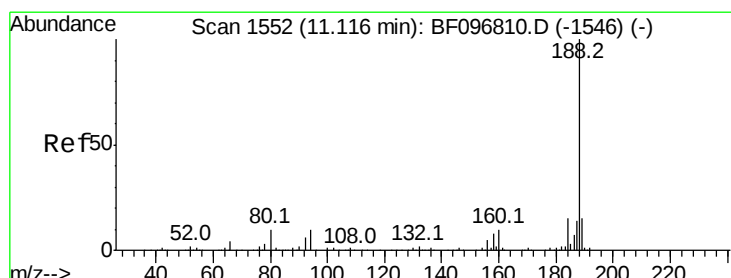
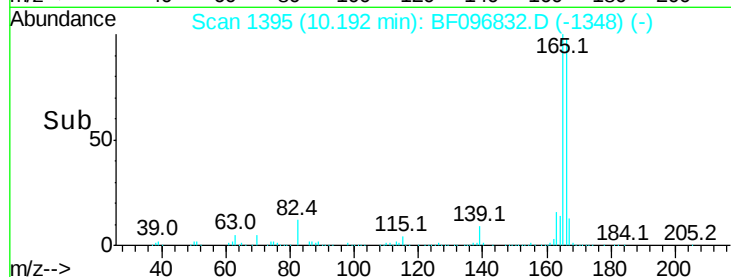
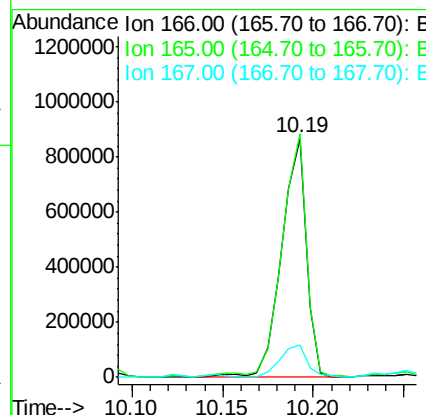
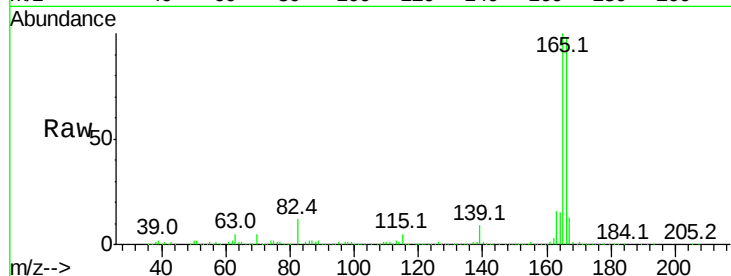
ClientSampleId :

NB-SB03A

Tot Ion	Ratio	Lower	Upper
166	100		
165	102.0	78.8	118.2
167	13.5	10.6	16.0

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#63

Phenanthrene-d10

Concen: 20.000 ng

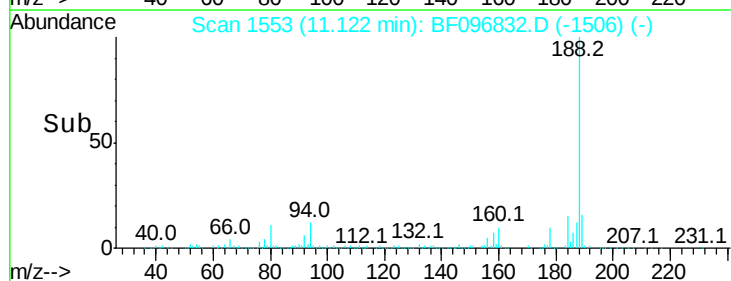
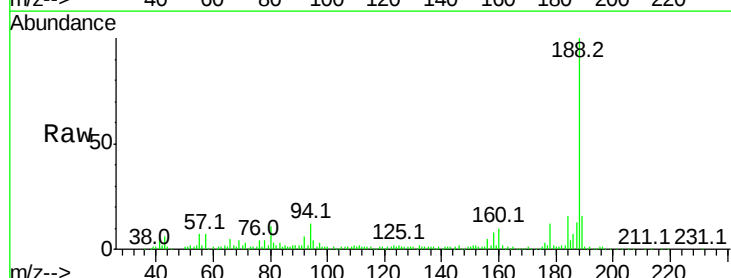
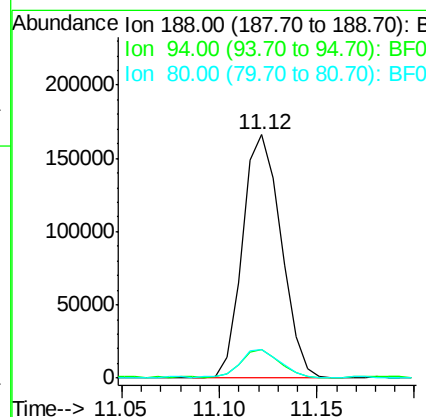
RT: 11.12 min Scan# 1553

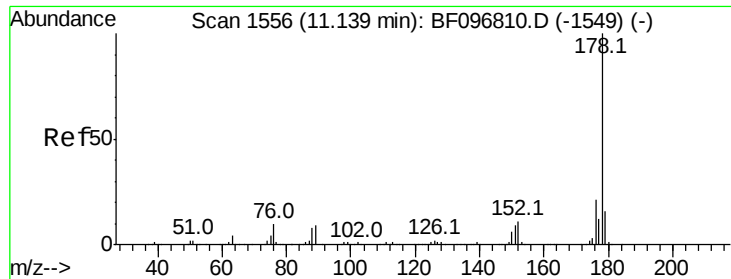
Delta R.T. -0.02 min

Lab File: BF096832.D

Acq: 17 Jul 2017 21:09

Tgt Ion	Ratio	Lower	Upper
188	100		
94	11.9	9.4	14.2
80	11.5	10.2	15.2





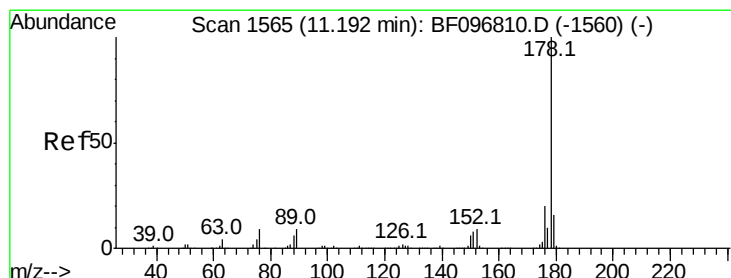
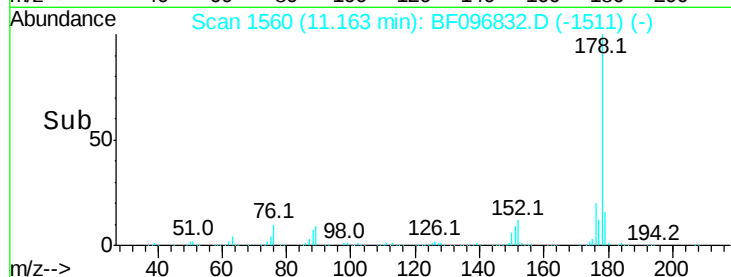
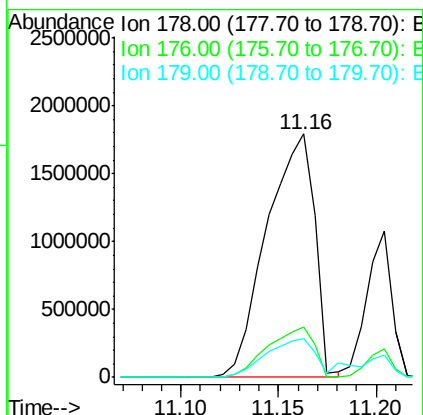
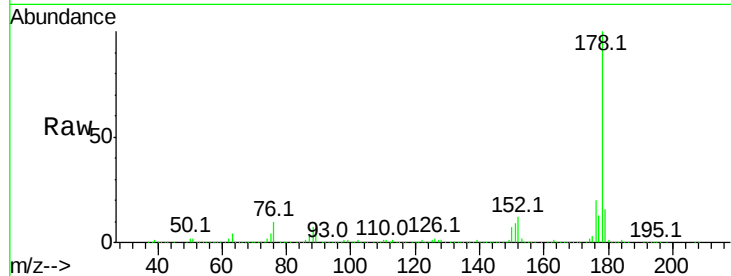
#70
Phenanthrene
Concen: 245.163 ng
RT: 11.16 min Scan# 1560
Delta R.T. -0.01 min
Lab File: BF096832.D
Acq: 17 Jul 2017 21:09

Instrument :
BNA_F
ClientSampleId :
NB-SB03A

Tot Ion:178 Resp: 3037162
Ion Ratio Lower Upper
178 100
176 20.4 16.2 24.4
179 16.0 12.6 19.0

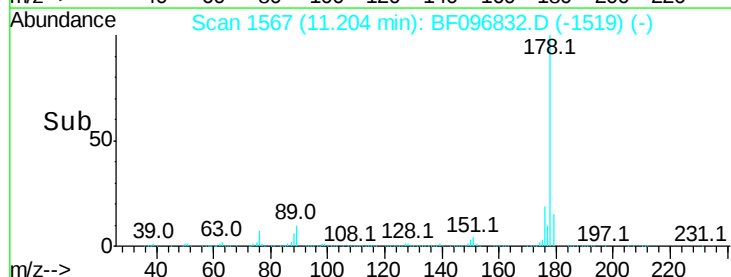
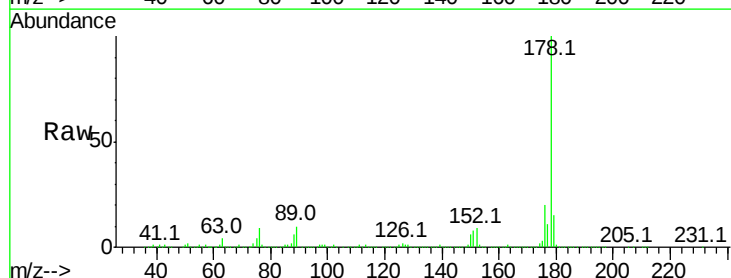
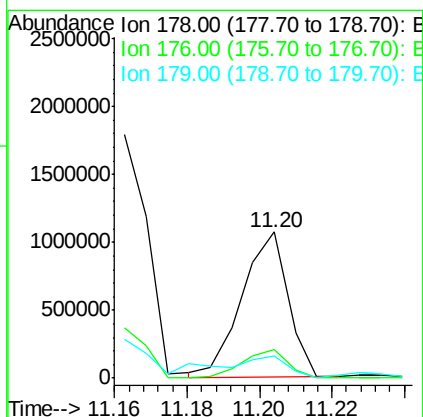
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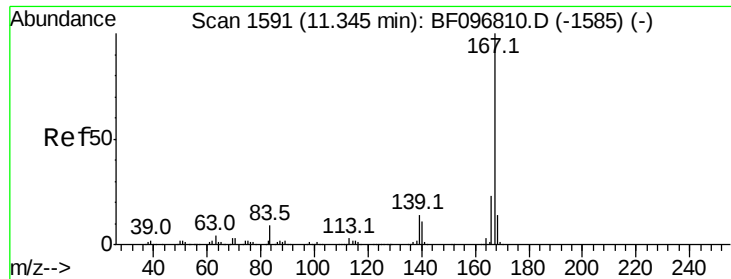
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#71
Anthracene
Concen: 75.445 ng
RT: 11.20 min Scan# 1567
Delta R.T. -0.02 min
Lab File: BF096832.D
Acq: 17 Jul 2017 21:09

Tgt Ion:178 Resp: 944988
Ion Ratio Lower Upper
178 100
176 19.5 15.8 23.8
179 15.3 12.7 19.1





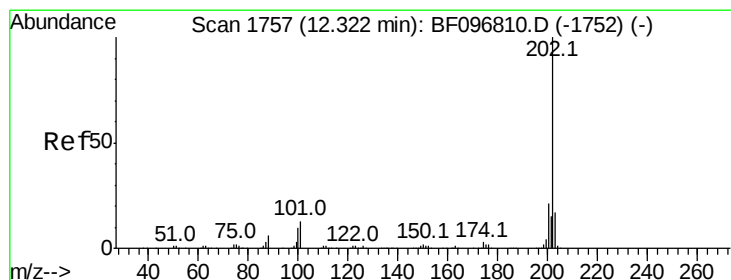
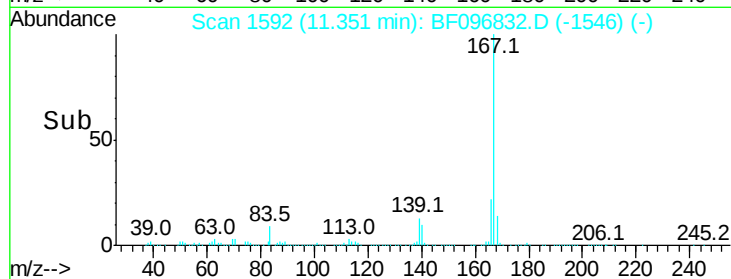
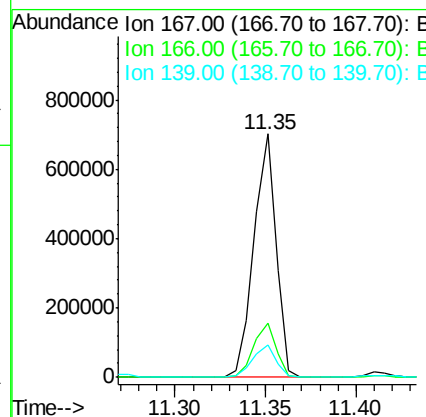
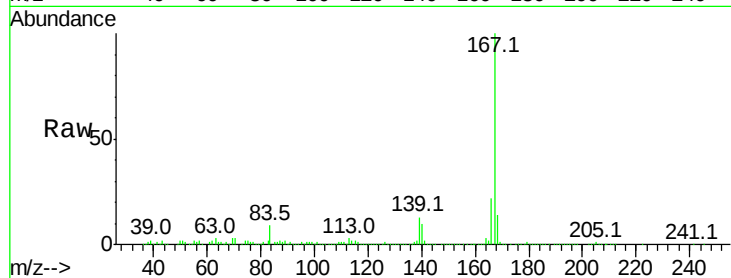
#72
 Carbazole
 Concen: 49.355 ng
 RT: 11.35 min Scan# 1592
 Delta R.T. -0.03 min
 Lab File: BF096832.D
 Acq: 17 Jul 2017 21:09

Instrument :
 BNA_F
 ClientSampleId :
 NB-SB03A

Tot Ion	Ratio	Lower	Upper
167	100		
166	22.3	18.1	27.1
139	13.4	11.7	17.5

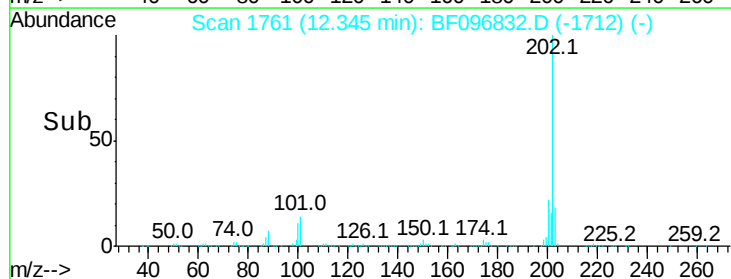
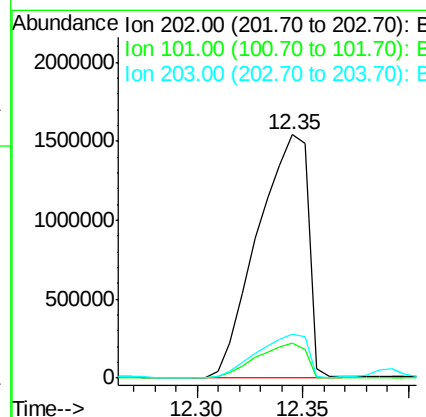
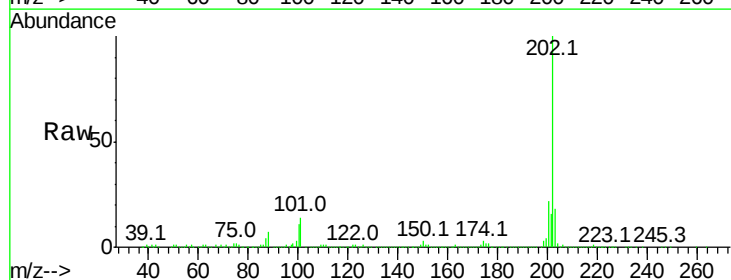
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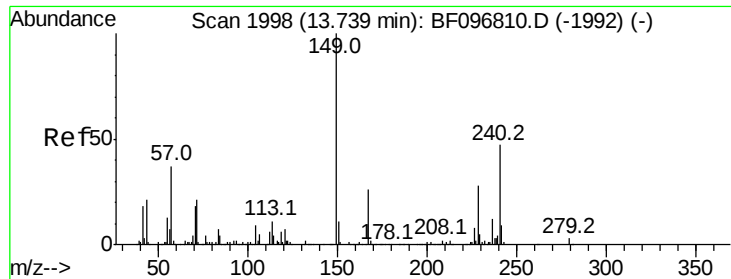
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#74
 Fluoranthene
 Concen: 216.418 ng
 RT: 12.35 min Scan# 1761
 Delta R.T. -0.01 min
 Lab File: BF096832.D
 Acq: 17 Jul 2017 21:09

Tgt Ion	Ratio	Lower	Upper
202	100		
101	14.3	0.0	33.2
203	18.2	0.0	38.1





#75

Chrysene-d12

Concen: 20.000 ng

RT: 13.76 min Scan# 2002

Delta R.T. -0.01 min

Lab File: BF096832.D

Acq: 17 Jul 2017 21:09

Instrument :

BNA_F

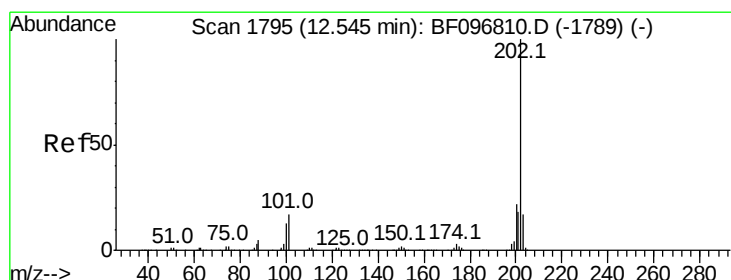
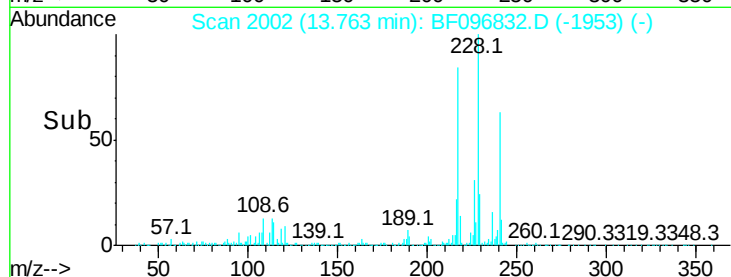
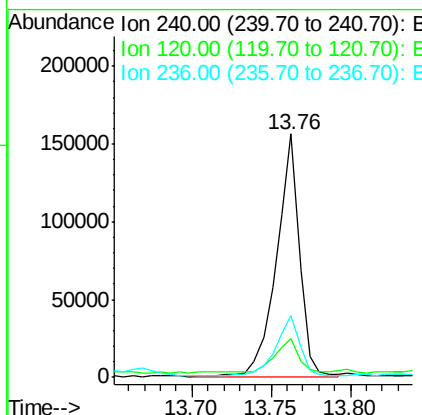
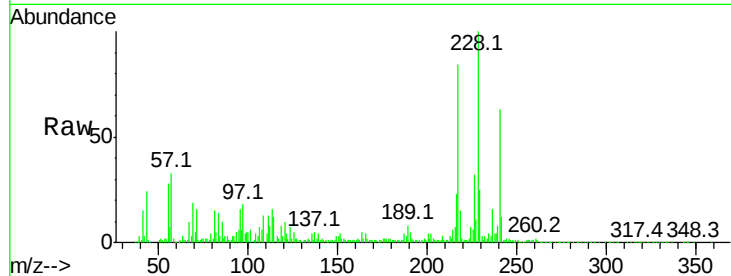
ClientSampleId :

NB-SB03A

Tot Ion	Ratio	Lower	Upper
240	100		
120	15.9	5.8	8.8#
236	25.6	20.5	30.7

Manual Integrations
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#77

Pyrene

Concen: 144.511 ng

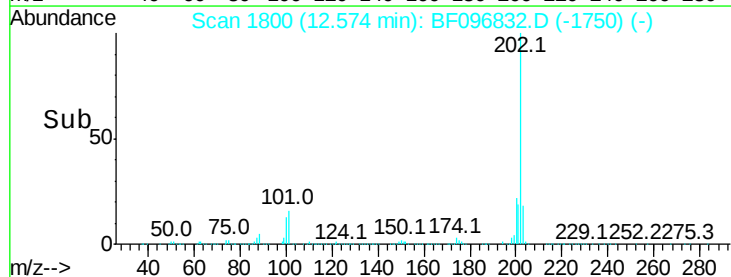
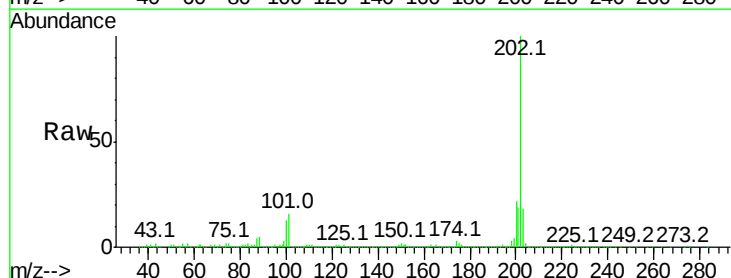
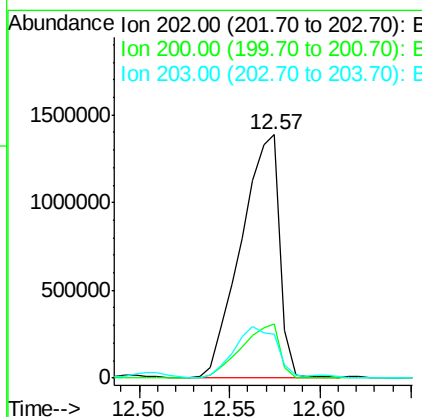
RT: 12.57 min Scan# 1800

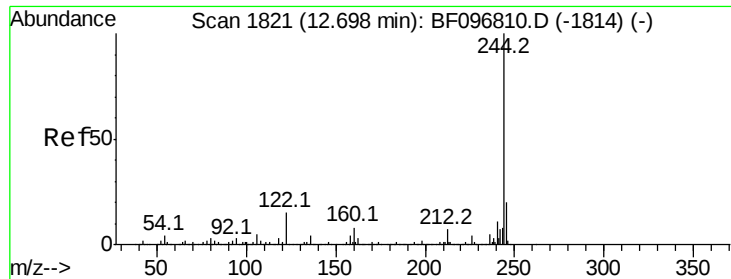
Delta R.T. -0.01 min

Lab File: BF096832.D

Acq: 17 Jul 2017 21:09

Tgt Ion	Ratio	Lower	Upper
202	100		
200	22.3	17.6	26.4
203	18.1	14.4	21.6





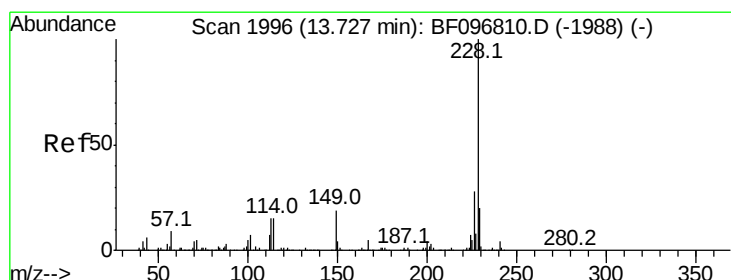
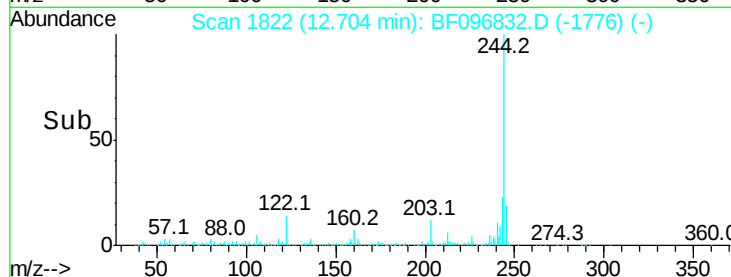
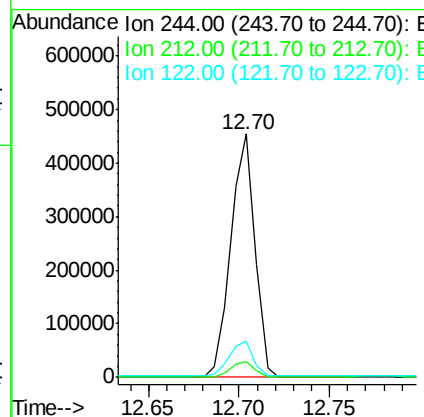
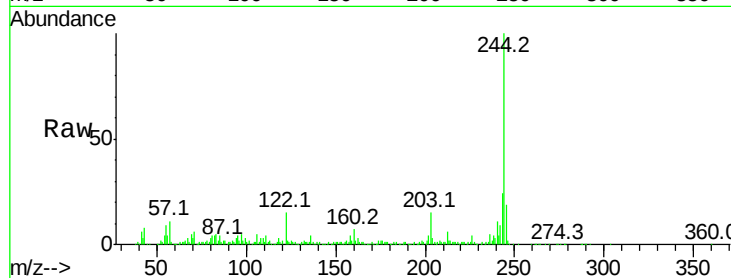
#78
 Terphenyl-d14
 Concen: 46.910 ng
 RT: 12.70 min Scan# 1822
 Delta R.T. -0.03 min
 Lab File: BF096832.D
 Acq: 17 Jul 2017 21:09

Instrument :
 BNA_F
 ClientSampleId :
 NB-SB03A

Tot Ion	Ratio	Lower	Upper
244	100		
212	6.5	6.0	9.0
122	14.8	10.3	15.5

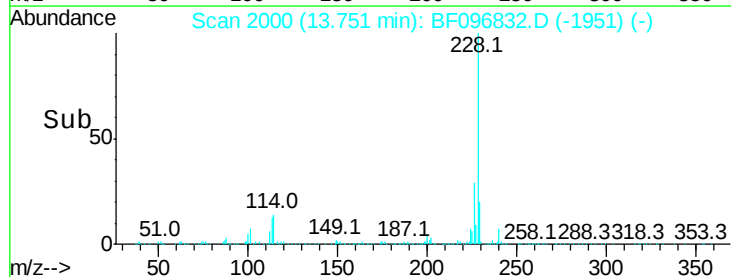
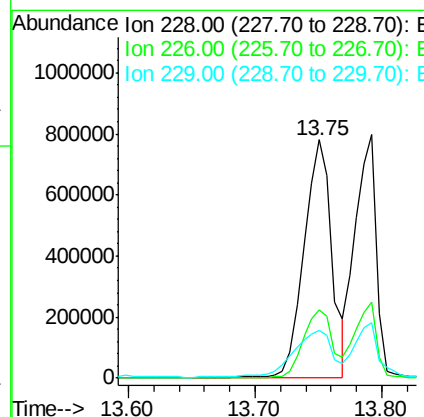
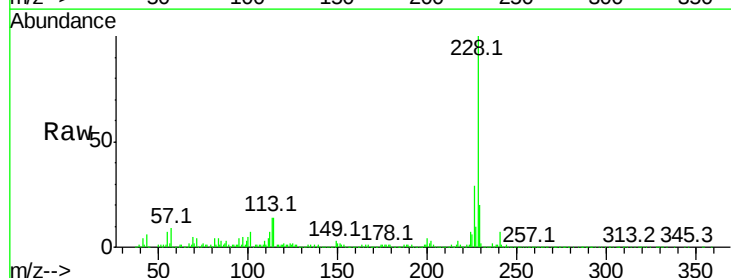
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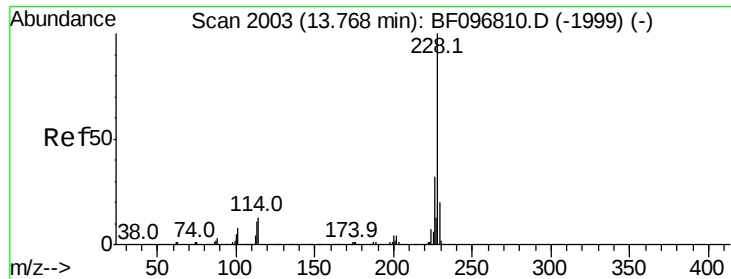
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#80
 Benzo(a)anthracene
 Concen: 122.156 ng
 RT: 13.75 min Scan# 2000
 Delta R.T. -0.01 min
 Lab File: BF096832.D
 Acq: 17 Jul 2017 21:09

Tgt Ion	Ratio	Lower	Upper
228	100		
226	28.9	22.6	33.8
229	20.3	16.3	24.5





#82

Chrysene

Concen: 95.638 ng

RT: 13.79 min Scan# 2007

Delta R.T. -0.01 min

Lab File: BF096832.D

Acq: 17 Jul 2017 21:09

Instrument :

BNA_F

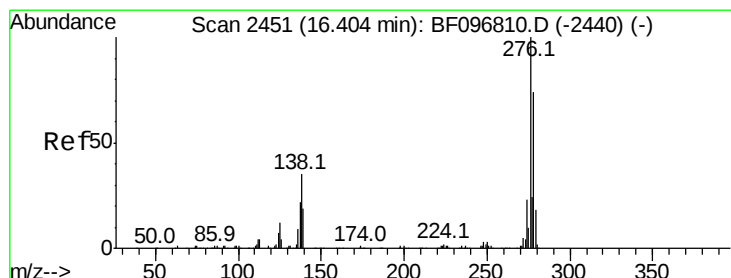
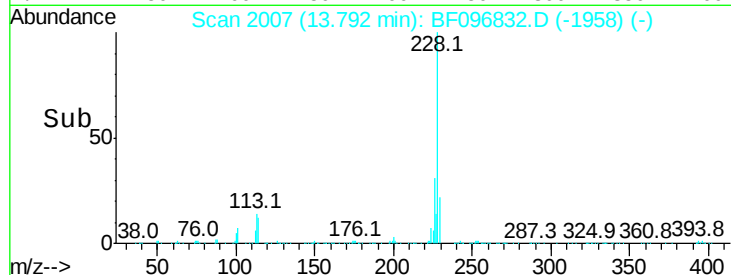
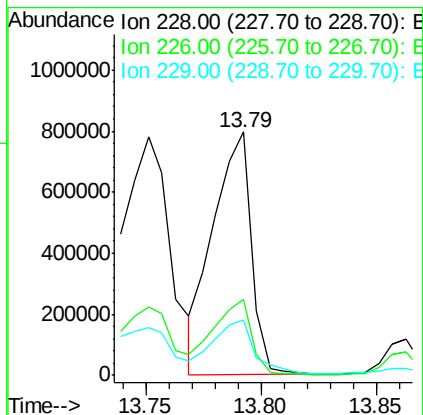
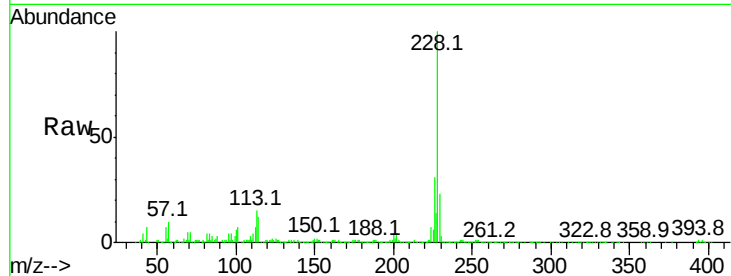
ClientSampleId :

NB-SB03A

Tot Ion:	228	Resp:	914863
Ion Ratio	Lower	Upper	
228	100		
226	31.3	24.9	37.3
229	22.7	15.8	23.6

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#85

Indeno(1,2,3-cd)pyrene

Concen: 39.708 ng

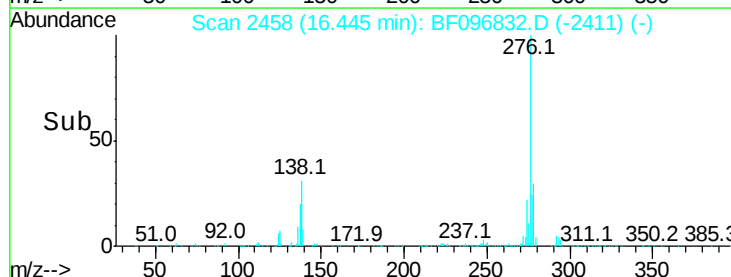
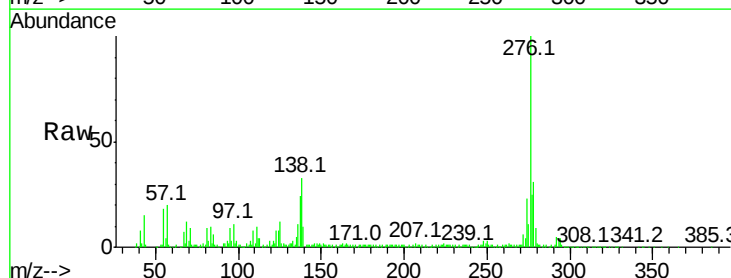
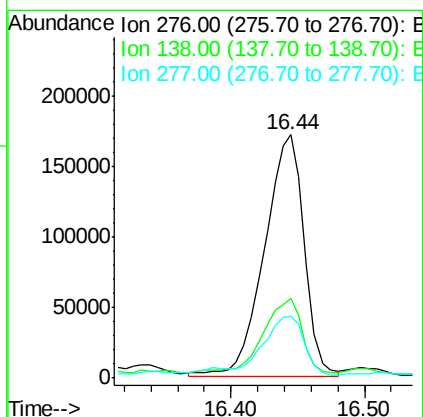
RT: 16.44 min Scan# 2458

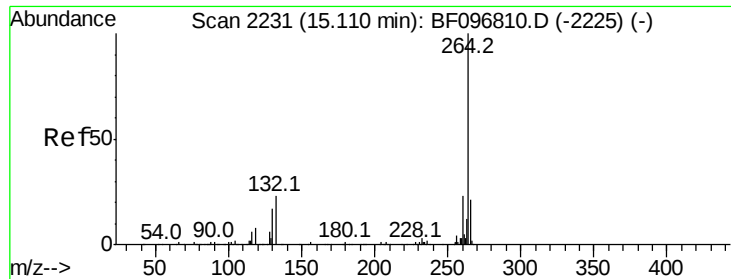
Delta R.T. -0.02 min

Lab File: BF096832.D

Acq: 17 Jul 2017 21:09

Tgt Ion:	276	Resp:	353613
Ion Ratio	Lower	Upper	
276	100		
138	31.5	27.8	41.6
277	25.4	20.2	30.4





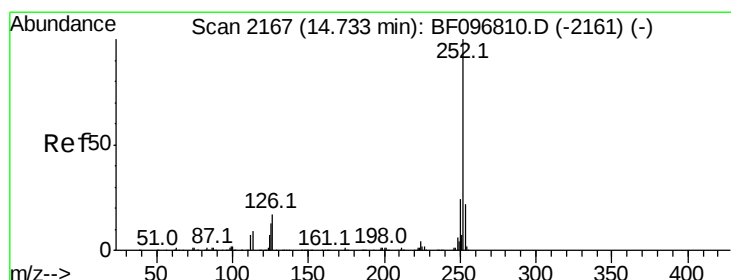
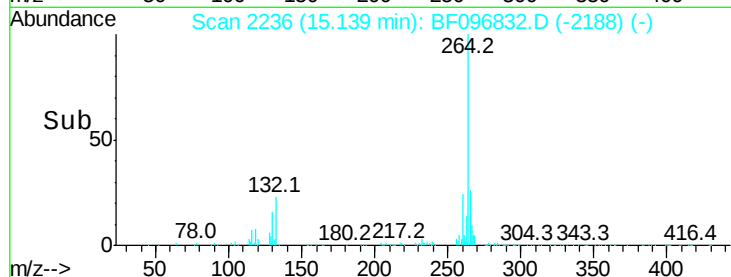
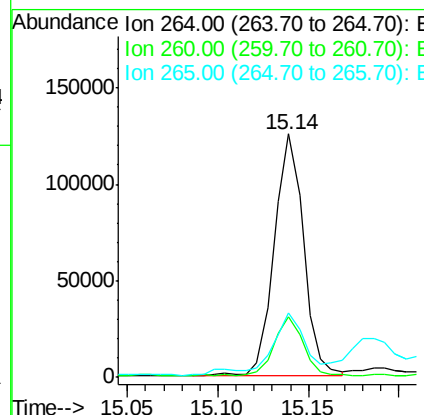
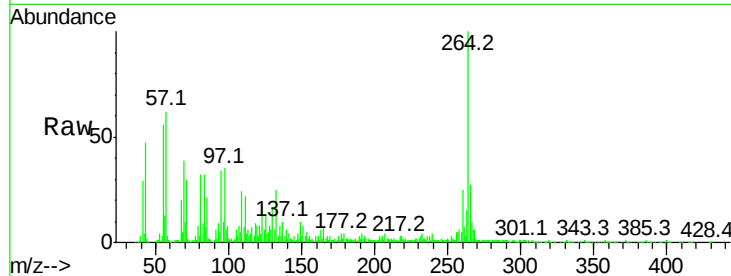
#86
Pervlene-d12
Concen: 20.000 ng
RT: 15.14 min Scan# 2236
Delta R.T. -0.02 min
Lab File: BF096832.D
Acq: 17 Jul 2017 21:09

Instrument :
BNA_F
ClientSampleId :
NB-SB03A

Tot Ion	Ratio	Lower	Upper
264	100		
260	24.7	19.5	29.3
265	26.6	17.2	25.8

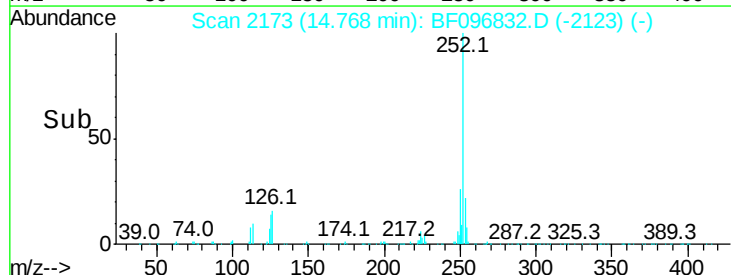
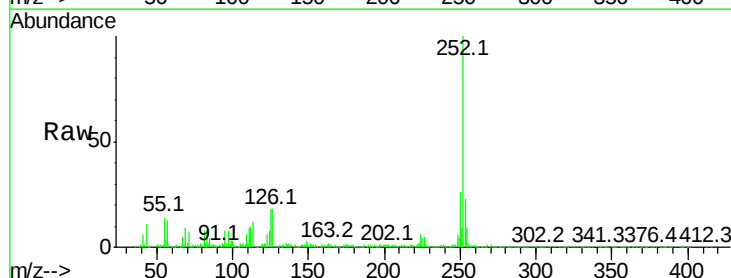
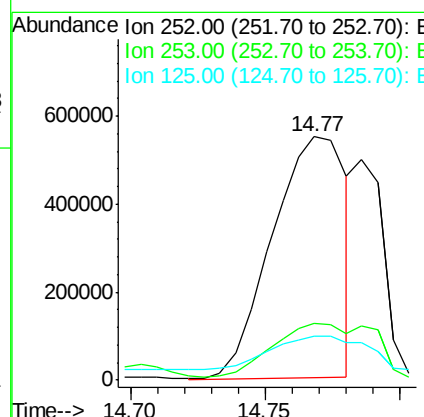
Manual Integrations
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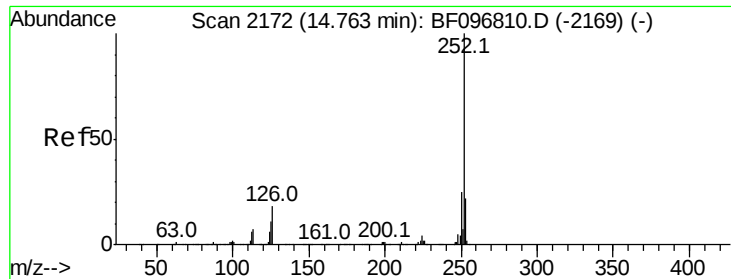
mohammad
7/20/2017 8:38:44 AM



#87
Benzo(b)fluoranthene
Concen: 122.092 ng m
RT: 14.77 min Scan# 2173
Delta R.T. -0.01 min
Lab File: BF096832.D
Acq: 17 Jul 2017 21:09

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.2	18.1	27.1
125	18.1	9.8	14.8





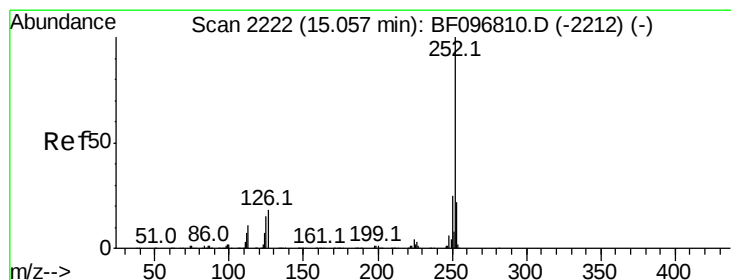
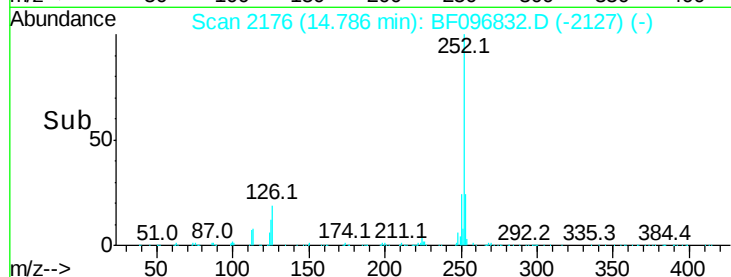
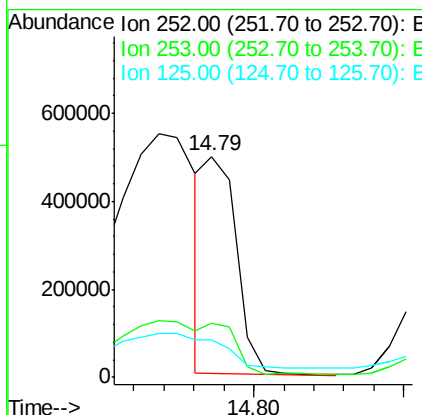
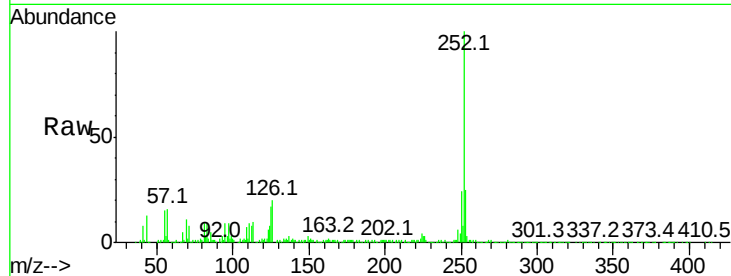
#88
Benzo(k)fluoranthene
Concen: 44.803 ng m
RT: 14.79 min Scan# 2176
Delta R.T. -0.01 min
Lab File: BF096832.D
Acq: 17 Jul 2017 21:09

Instrument :
BNA_F
ClientSampleId :
NB-SB03A

Tot Ion	Ratio	Lower	Upper
252	100		
253	24.5	18.4	27.6
125	17.2	13.1	19.7

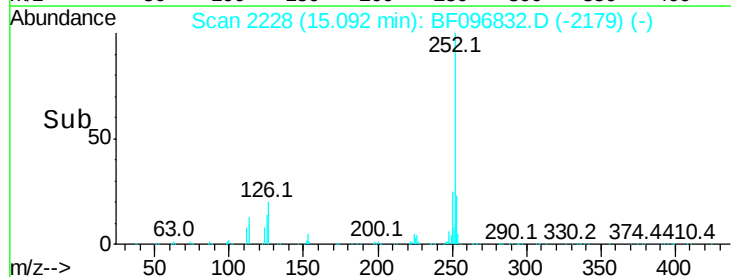
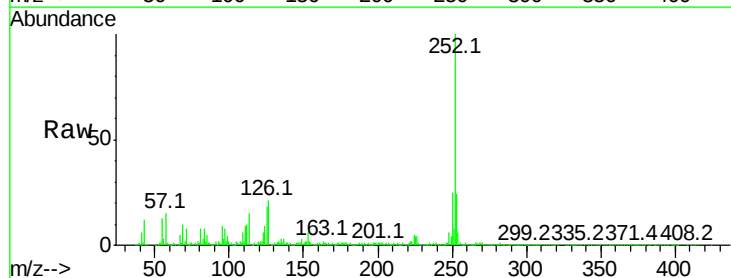
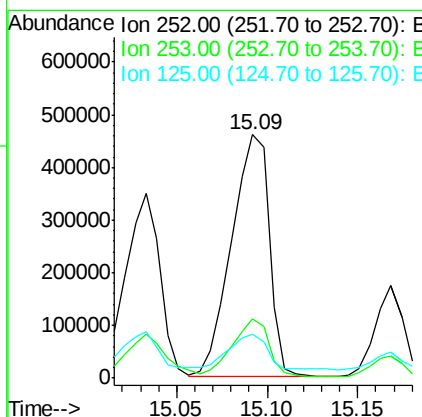
Manual Integrations
APPROVED

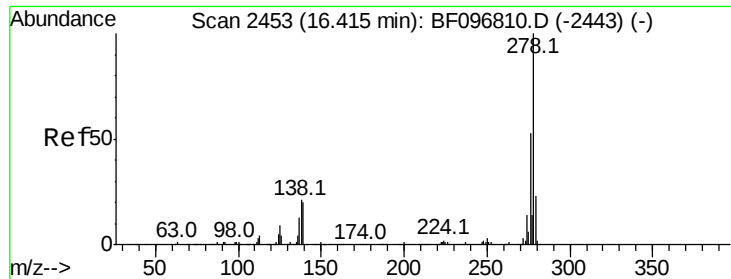
mohammad
7/20/2017 8:38:44 AM



#89
Benzo(a)pyrene
Concen: 85.303 ng
RT: 15.09 min Scan# 2228
Delta R.T. -0.01 min
Lab File: BF096832.D
Acq: 17 Jul 2017 21:09

Tgt Ion	Ratio	Lower	Upper
252	100		
253	24.3	17.5	26.3
125	18.1	11.0	16.4#





#90

Dibenzo(a,h)anthracene

Concen: 13.677 ng

RT: 16.44 min Scan# 2458

Delta R.T. -0.04 min

Lab File: BF096832.D

Acq: 17 Jul 2017 21:09

Instrument :

BNA_F

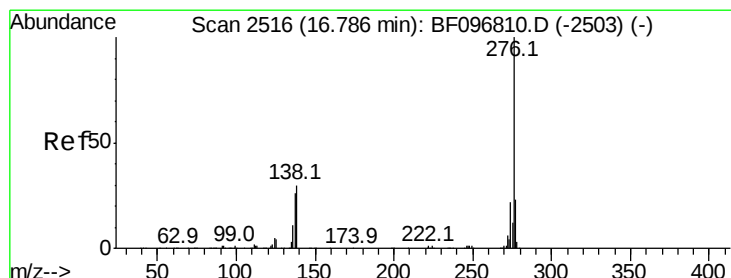
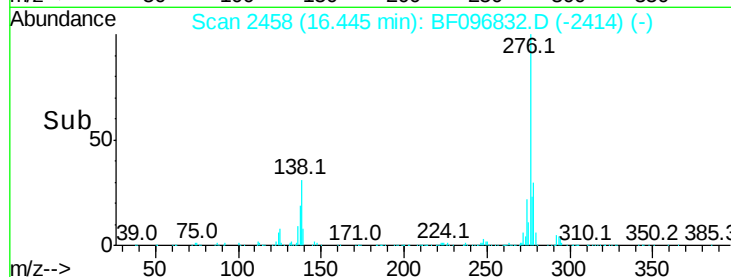
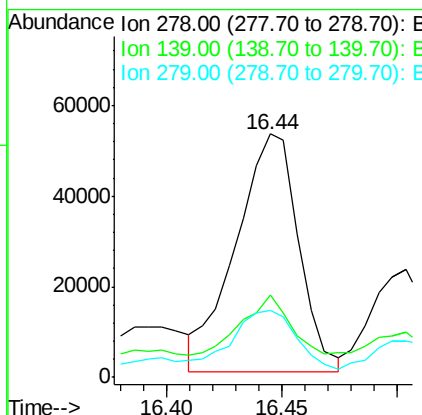
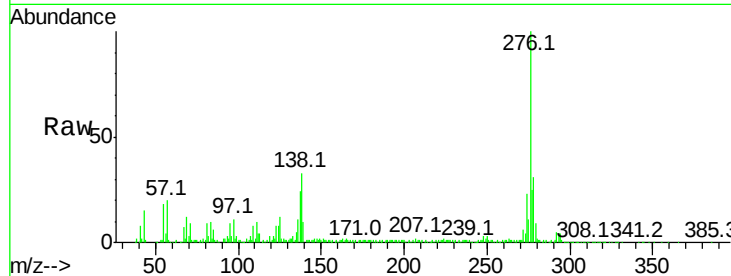
ClientSampleId :

NB-SB03A

Tot Ion:	278	Resp:	98878
Ion Ratio	Lower	Upper	
278	100		
139	33.6	16.6	24.8#
279	27.4	19.3	28.9

Manual Integrations
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#91

Benzo(g,h,i)perylene

Concen: 43.722 ng

RT: 16.83 min Scan# 2524

Delta R.T. -0.03 min

Lab File: BF096832.D

Acq: 17 Jul 2017 21:09

Tgt Ion:	276	Resp:	338480
Ion Ratio	Lower	Upper	
276	100		
277	23.7	18.6	28.0
138	31.2	25.4	38.0

