

Data Path : Z:\HPCHEM1\BNA F\DATA\BF071917\
 Data File : BF096895.D
 Acq On : 20 Jul 2017 3:54
 Operator : SJ/JU
 Sample : I4203-11DL 10X
 Misc :
 ALS Vial : 26 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 NB-SB03ADL

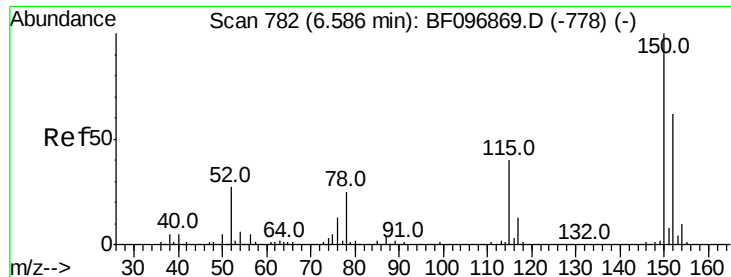
Manual Integrations
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Quant Time: Jul 20 07:07:11 2017
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF071317.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Jul 18 13:33:22 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.59	152	98978	20.00	ng	-0.01
21) Naphthalene-d8	7.87	136	378710	20.00	ng	-0.01
38) Acenaphthene-d10	9.62	164	137886	20.00	ng	-0.01
63) Phenanthrene-d10	11.10	188	204236	20.00	ng	0.00
75) Chrysene-d12	13.73	240	175612	20.00	ng	0.00
86) Perylene-d12	15.10	264	132279	20.00	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.19	112	66205	10.06	ng	-0.01
7) Phenol-d6	6.23	99	79003	10.00	ng	-0.02
23) Nitrobenzene-d5	7.15	82	39545	6.47	ng	-0.02
41) 2,4,6-Tribromophenol	10.40	330	10182	8.65	ng	-0.02
44) 2-Fluorobiphenyl	8.95	172	78004	8.94	ng	-0.02
78) Terphenyl-d14	12.68	244	55616	5.49	ng	-0.01
Target Compounds						Qvalue
31) Naphthalene	7.89	128	282179	15.729	ng	98
37) 2-Methylnaphthalene	8.59	142	120526	10.538	ng	98
45) 1,1'-Biphenyl	9.05	154	30203	2.554	ng	96
48) Acenaphthylene	9.48	152	27887	2.010	ng	99
51) Acenaphthene	9.65	154	70618	8.616	ng	100
54) Dibenzofuran	9.82	168	92704	8.071	ng	98
57) Fluorene	10.16	166	94436	11.127	ng	99
70) Phenanthrene	11.12	178	511291	46.042	ng	100
71) Anthracene	11.17	178	117275	10.445	ng	99
72) Carbazole	11.33	167	65348	6.010	ng	99
74) Fluoranthene	12.30	202	419817	39.496	ng	98
77) Pyrene	12.53	202	296114	18.579	ng	99
80) Benzo(a)anthracene	13.72	228	147856	13.513	ng	99
82) Chrysene	13.75	228	122342	11.357	ng	98
85) Indeno(1,2,3-cd)pyrene	16.38	276	37845	6.969	ng	98
87) Benzo(b)fluoranthene	14.72	252	109212m	13.689	ng	
88) Benzo(k)fluoranthene	14.74	252	35631m	4.716	ng	
89) Benzo(a)pyrene	15.04	252	76088	10.399	ng	# 97
91) Benzo(a,h,i)perylene	16.76	276	33953	4.709	ng	97

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



#1

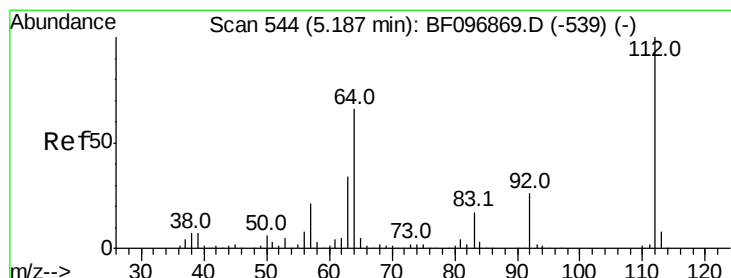
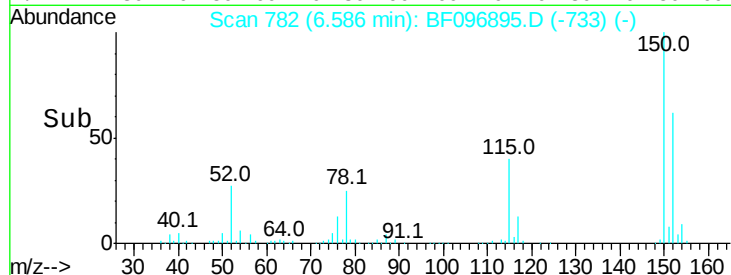
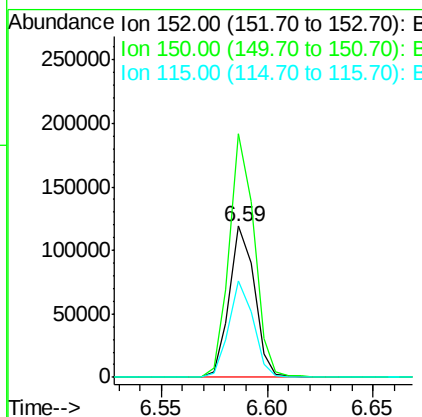
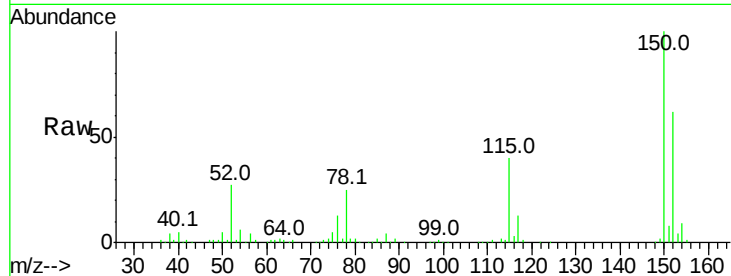
1,4-Dichlorobenzene-d4
 Concen: 20.000 ng
 RT: 6.59 min Scan# 782
 Delta R.T. -0.01 min
 Lab File: BF096895.D
 Acq: 20 Jul 2017 3:54

Instrument :
 BNA_F
 ClientSampleId :
 NB-SB03ADL

Tot Ion	Ratio	Lower	Upper
152	100		
150	161.0	126.2	189.2
115	64.0	52.2	78.2

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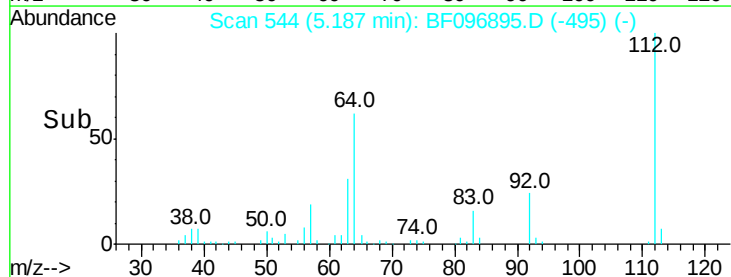
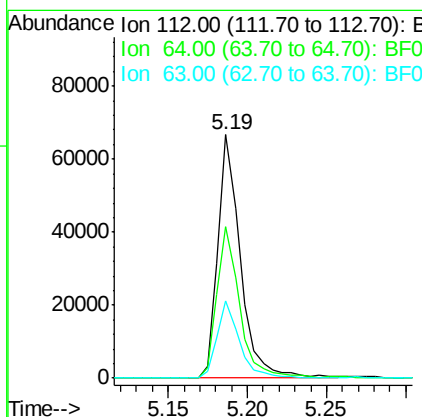
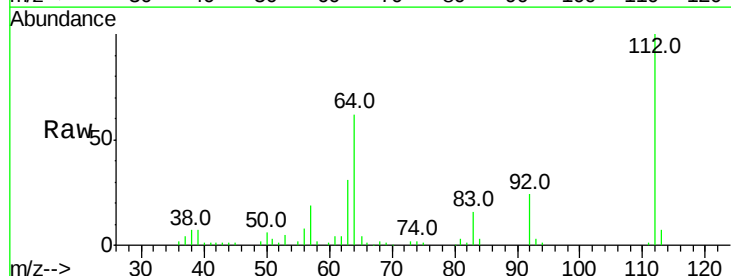
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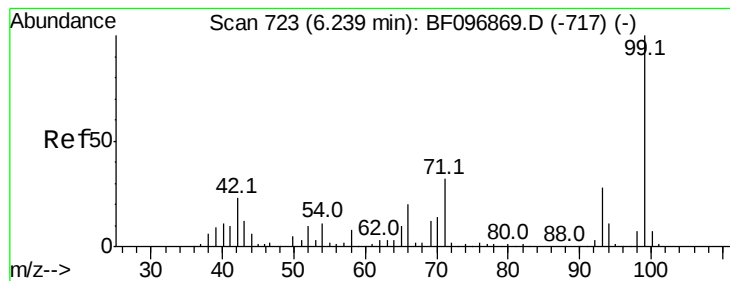


#5

2-Fluorophenol
 Concen: 10.057 ng
 RT: 5.19 min Scan# 544
 Delta R.T. -0.01 min
 Lab File: BF096895.D
 Acq: 20 Jul 2017 3:54

Tgt Ion	Ratio	Lower	Upper
112	100		
64	62.4	46.0	69.0
63	31.5	23.4	35.0





#7

Phenol-d6

Concen: 10.001 ng

RT: 6.23 min Scan# 722

Delta R.T. -0.02 min

Lab File: BF096895.D

Acq: 20 Jul 2017 3:54

Instrument :

BNA_F

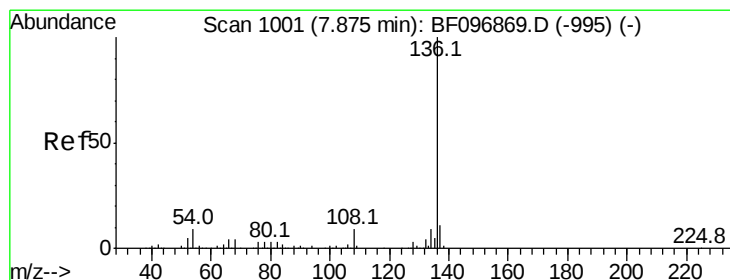
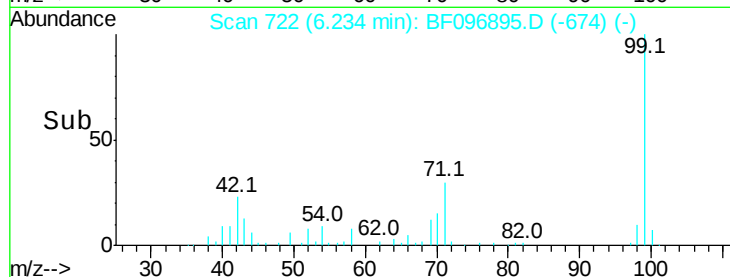
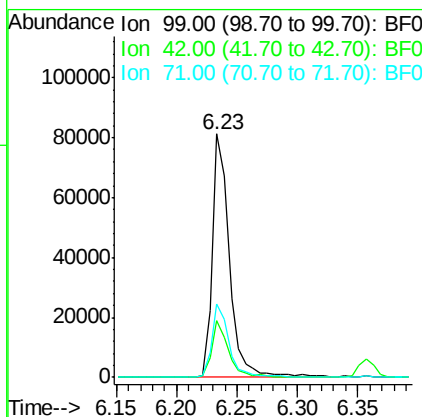
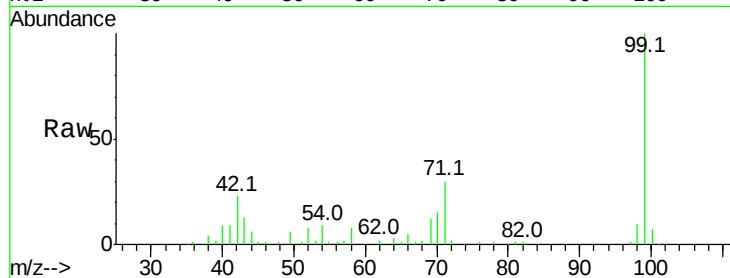
ClientSampled :

NB-SB03ADL

Tot Ion	Ion	Ratio	Resp	Lower	Upper
99	100		79003		
42	23.3	13.5	20.3#		
71	30.4	24.5	36.7		

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#21

Naphthalene-d8

Concen: 20.000 ng

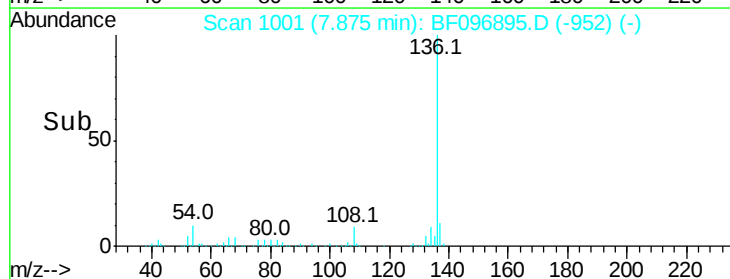
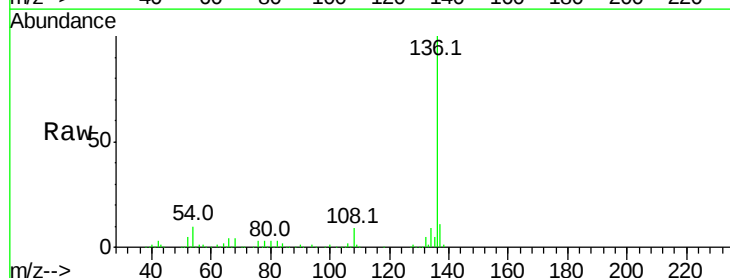
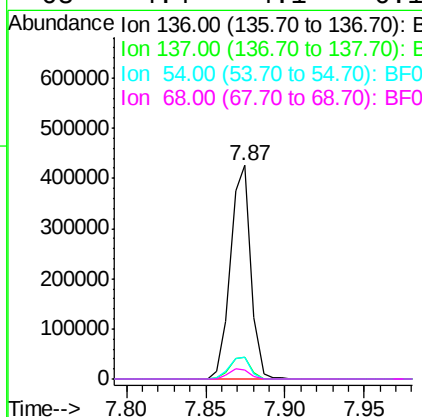
RT: 7.87 min Scan# 1001

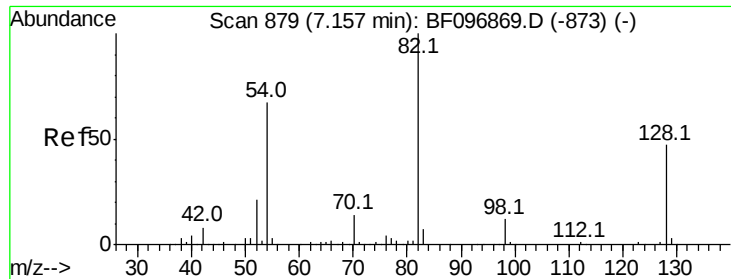
Delta R.T. -0.01 min

Lab File: BF096895.D

Acq: 20 Jul 2017 3:54

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
136	100		378710		
137	10.5	8.5	12.7		
54	10.0	4.9	7.3#		
68	4.4	4.1	6.1		





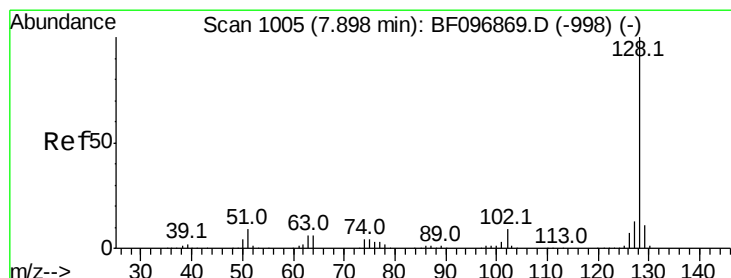
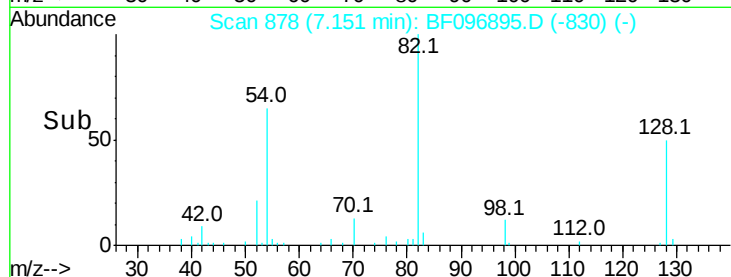
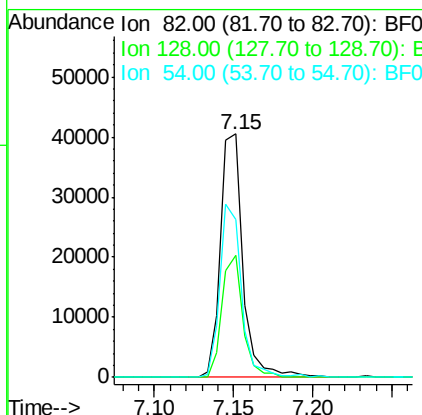
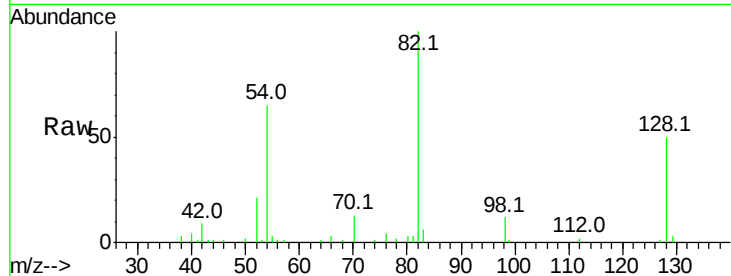
#23
Nitrobenzene-d5
Concen: 6.468 ng
RT: 7.15 min Scan# 878
Delta R.T. -0.02 min
Lab File: BF096895.D
Acq: 20 Jul 2017 3:54

Instrument :
BNA_F
ClientSampleId :
NB-SB03ADL

Tot Ion	Ratio	Lower	Upper
82	100		
128	50.2	34.0	51.0
54	64.8	42.2	63.2

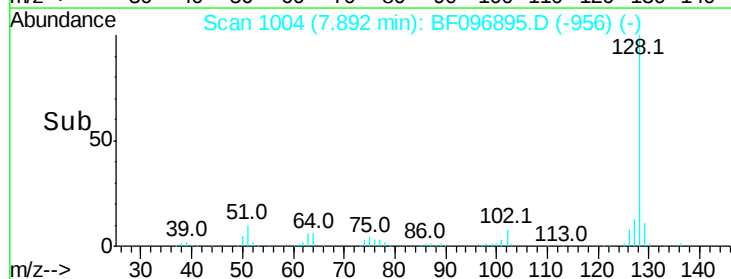
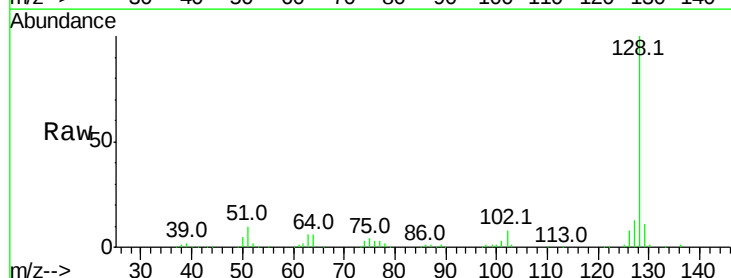
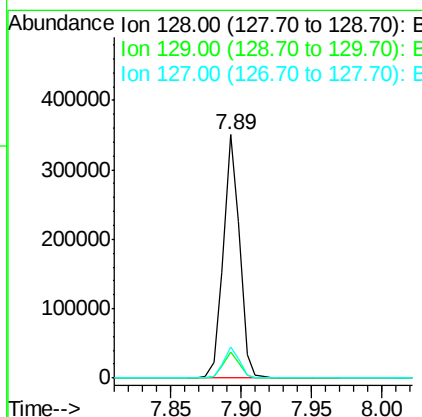
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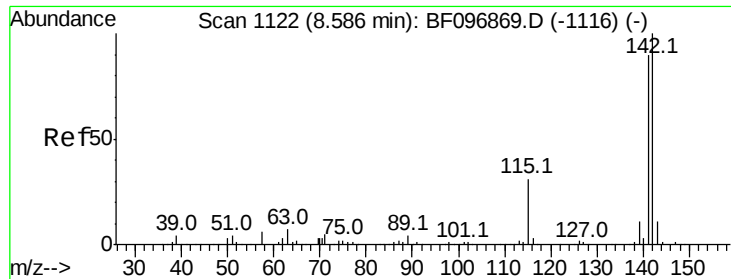
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#31
Naphthalene
Concen: 15.729 ng
RT: 7.89 min Scan# 1004
Delta R.T. -0.02 min
Lab File: BF096895.D
Acq: 20 Jul 2017 3:54

Tgt Ion	Ratio	Lower	Upper
128	100		
129	10.8	9.0	13.6
127	12.7	10.8	16.2





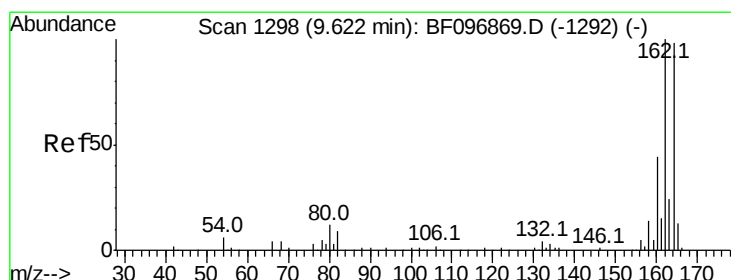
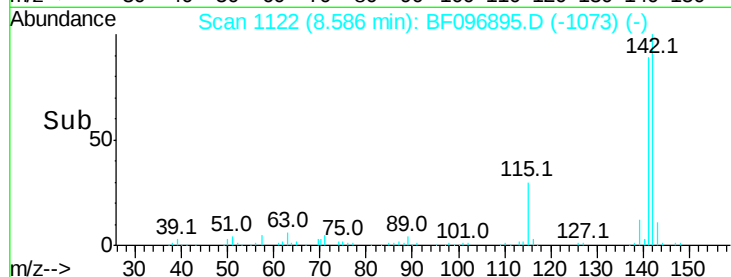
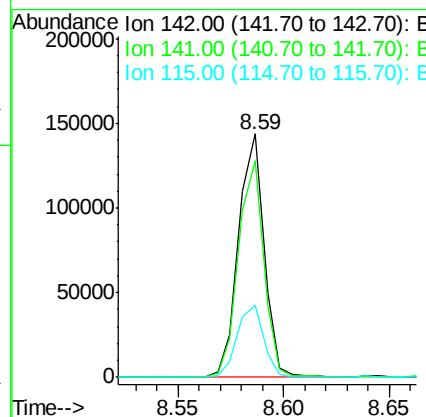
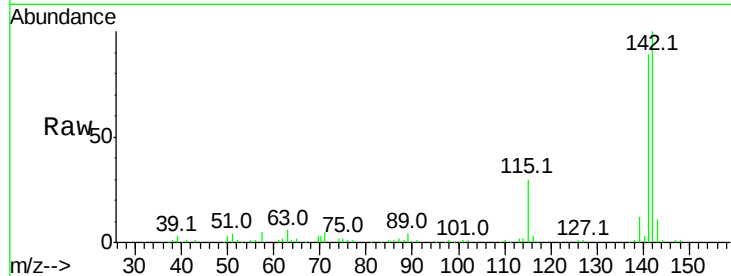
#37
 2-Methylnaphthalene
 Concen: 10.538 ng
 RT: 8.59 min Scan# 1122
 Delta R.T. -0.01 min
 Lab File: BF096895.D
 Acq: 20 Jul 2017 3:54

Instrument :
 BNA_F
 ClientSampleId :
 NB-SB03ADL

Tot Ion	Ratio	Resp	Lower	Upper
142	100	120526		
141	89.1	71.3	106.9	
115	29.7	27.1	40.7	

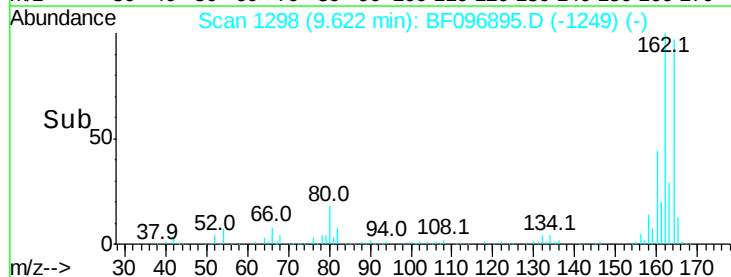
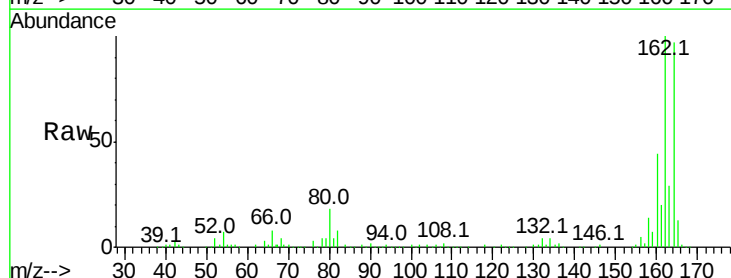
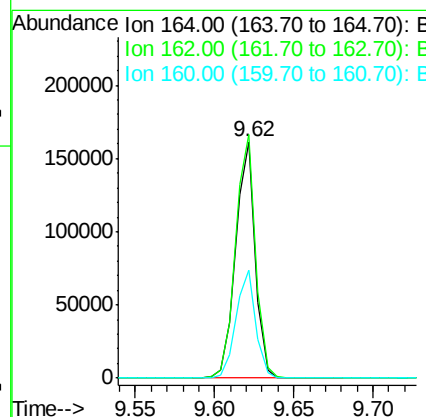
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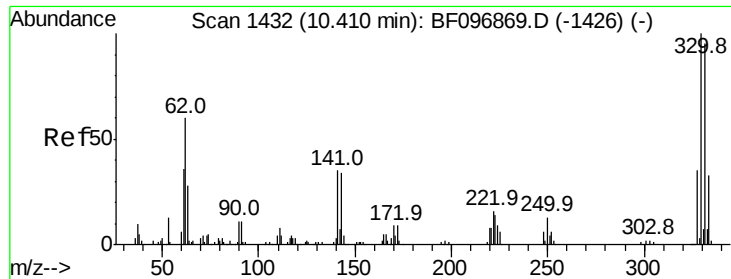
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#38
 Acenaphthene-d10
 Concen: 20.000 ng
 RT: 9.62 min Scan# 1298
 Delta R.T. -0.01 min
 Lab File: BF096895.D
 Acq: 20 Jul 2017 3:54

Tgt Ion	Ratio	Resp	Lower	Upper
164	100	137886		
162	103.1	82.6	123.8	
160	45.7	36.2	54.2	





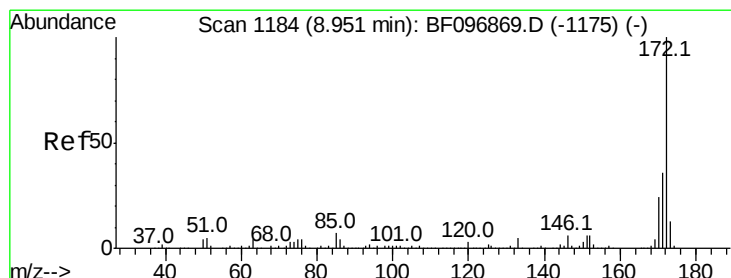
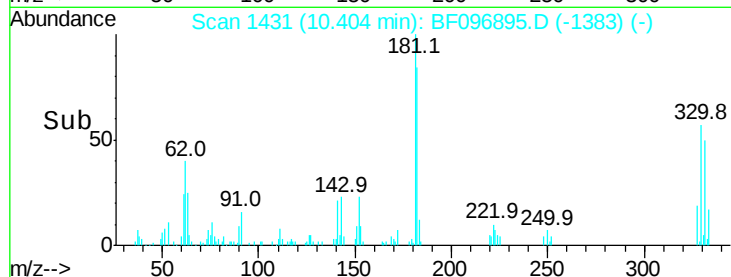
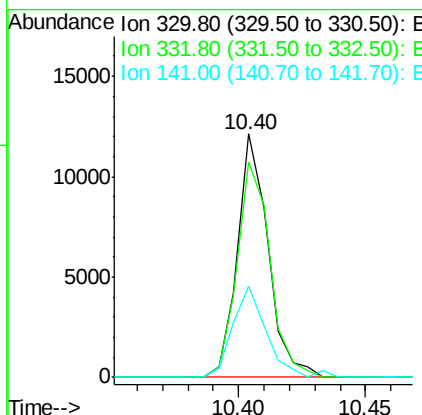
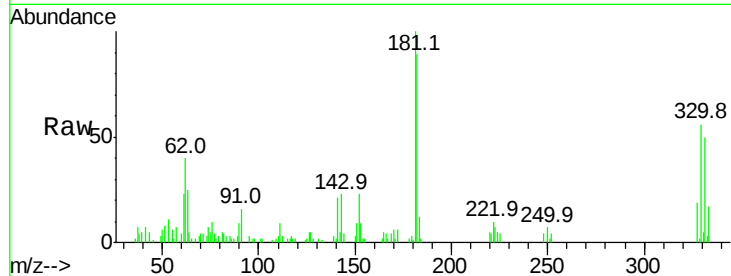
#41
 2,4,6-Tribromophenol
 Concen: 8.651 ng
 RT: 10.40 min Scan# 1431
 Delta R.T. -0.02 min
 Lab File: BF096895.D
 Acq: 20 Jul 2017 3:54

Instrument :
 BNA_F
 ClientSampleId :
 NB-SB03ADL

Tot Ion	Ratio	Lower	Upper
330	100		
332	95.0	76.6	115.0
141	40.9	31.4	47.2

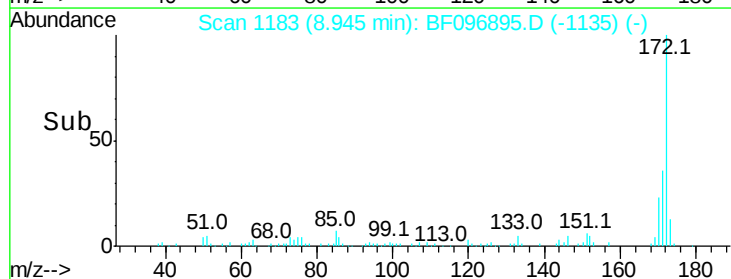
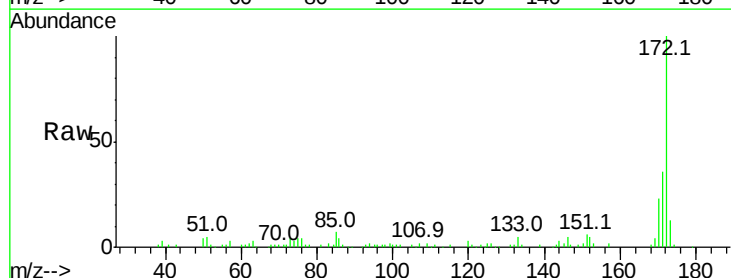
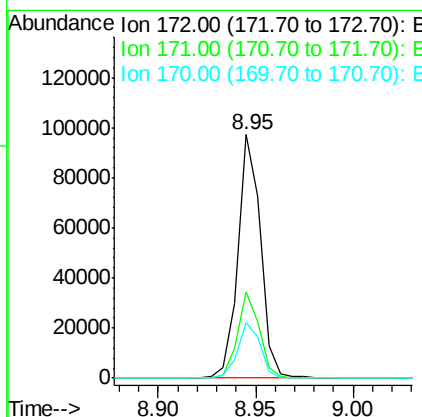
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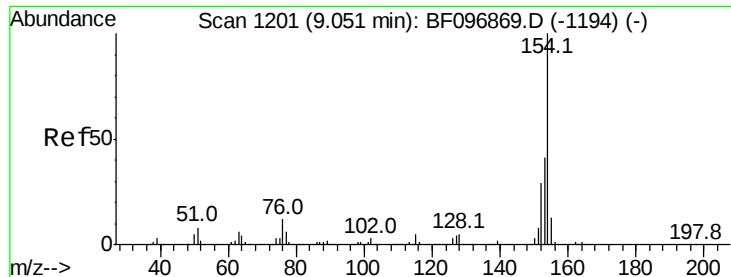
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#44
 2-Fluorobiphenyl
 Concen: 8.938 ng
 RT: 8.95 min Scan# 1183
 Delta R.T. -0.02 min
 Lab File: BF096895.D
 Acq: 20 Jul 2017 3:54

Tgt Ion	Ratio	Lower	Upper
172	100		
171	35.5	29.6	44.4
170	22.6	19.8	29.8





#45

1,1'-Biphenyl

Concen: 2.554 ng

RT: 9.05 min Scan# 1200

Delta R.T. -0.02 min

Lab File: BF096895.D

Acq: 20 Jul 2017 3:54

Instrument :

BNA_F

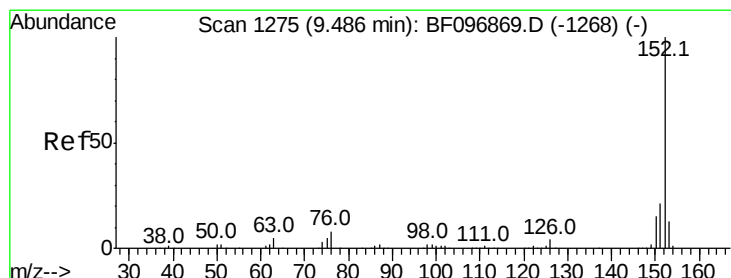
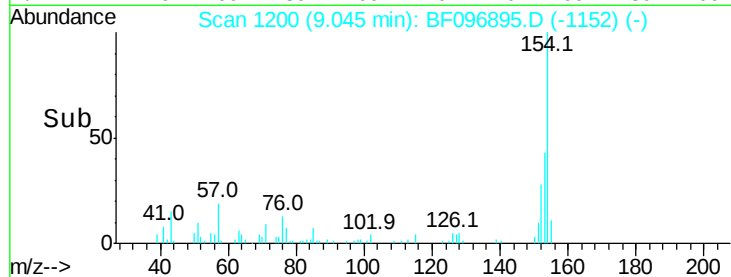
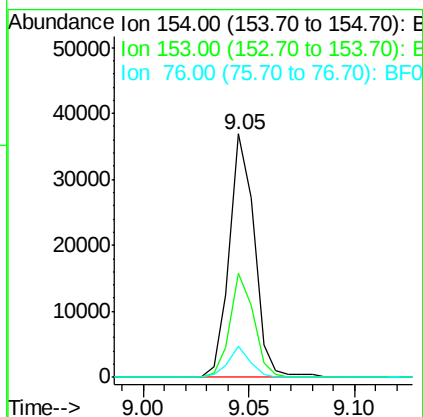
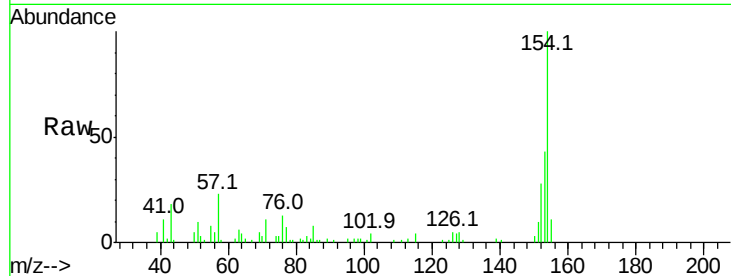
ClientSampleId :

NB-SB03ADL

Tot Ion:	154	Resp:	30203
Ion Ratio	Lower	Upper	
154	100		
153	42.9	21.2	61.2
76	12.8	0.0	29.9

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#48

Acenaphthylene

Concen: 2.010 ng

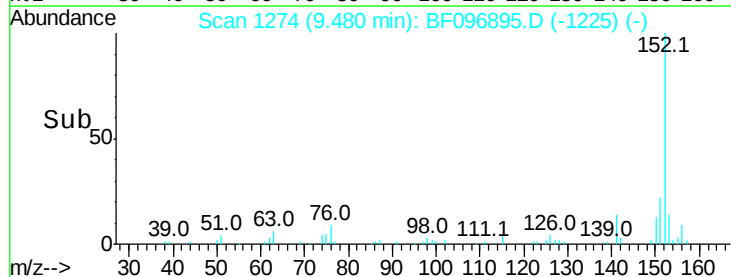
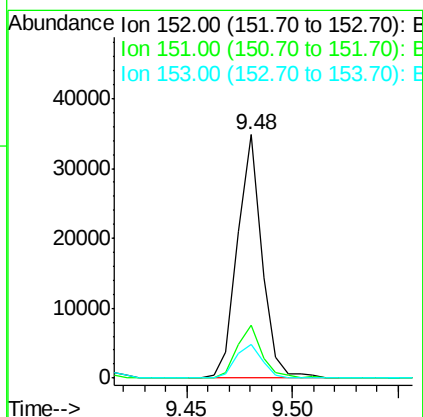
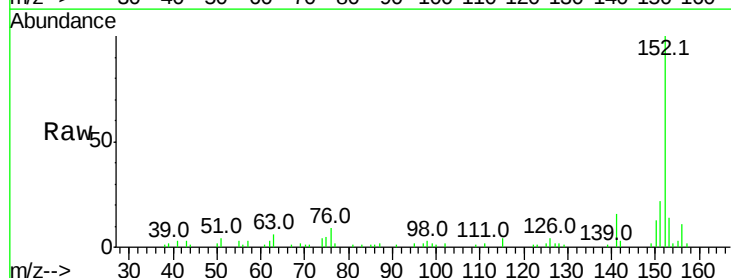
RT: 9.48 min Scan# 1274

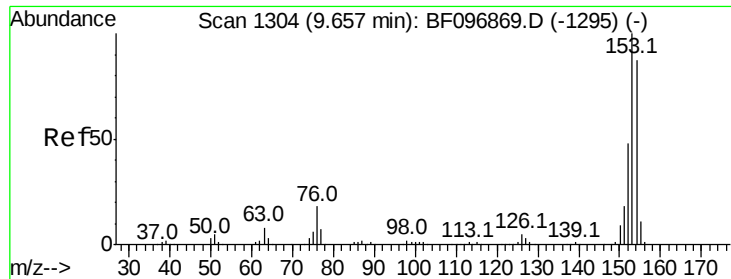
Delta R.T. -0.01 min

Lab File: BF096895.D

Acq: 20 Jul 2017 3:54

Tgt Ion:	152	Resp:	27887
Ion Ratio	Lower	Upper	
152	100		
151	21.6	16.8	25.2
153	14.0	10.8	16.2





#51

Acenaphthene

Concen: 8.616 ng

RT: 9.65 min Scan# 1303

Delta R.T. -0.02 min

Lab File: BF096895.D

Acq: 20 Jul 2017 3:54

Instrument :

BNA_F

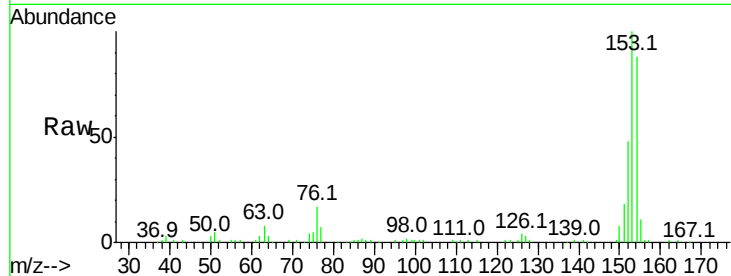
ClientSampleId :

NB-SB03ADL

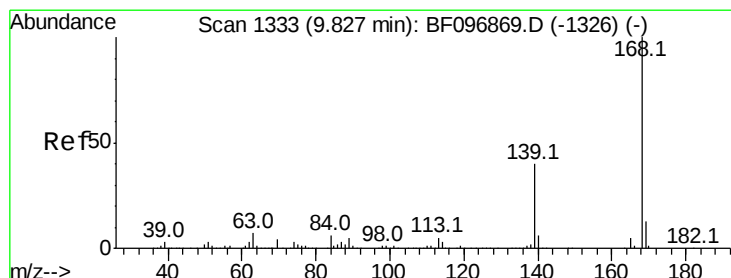
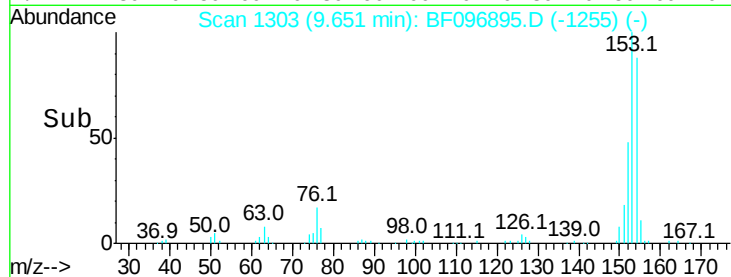
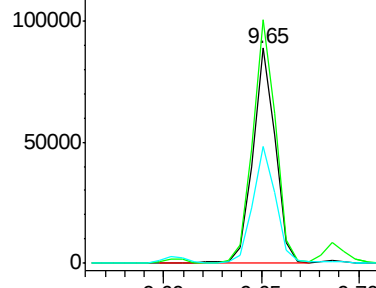
Tot Ion:	154	Resp:	70618
Ion Ratio	Lower	Upper	
154	100		
153	113.2	90.5	135.7
152	54.4	43.6	65.4

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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: 8.071 ng

RT: 9.82 min Scan# 1332

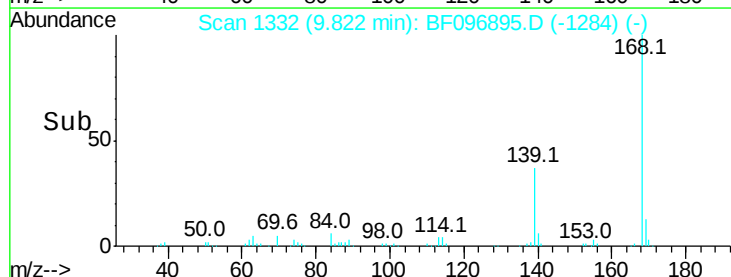
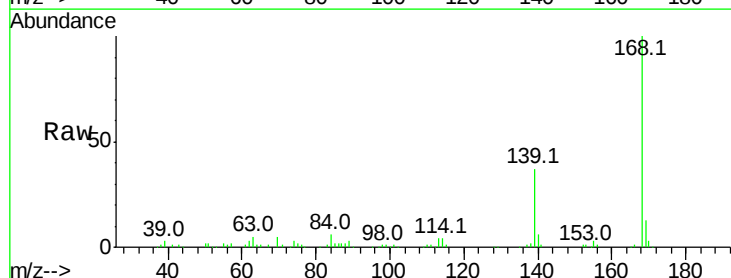
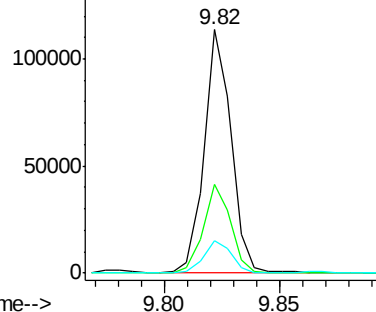
Delta R.T. -0.02 min

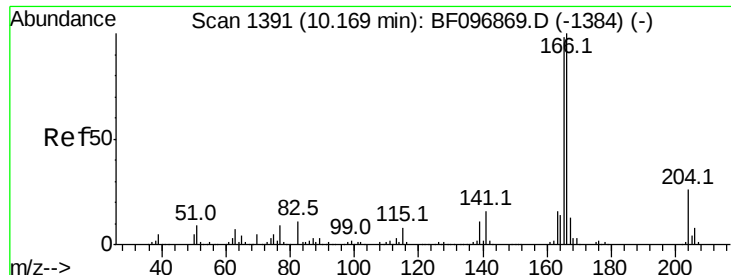
Lab File: BF096895.D

Acq: 20 Jul 2017 3:54

Tgt Ion:	168	Resp:	92704
Ion Ratio	Lower	Upper	
168	100		
139	36.7	30.6	45.8
169	13.4	10.8	16.2

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





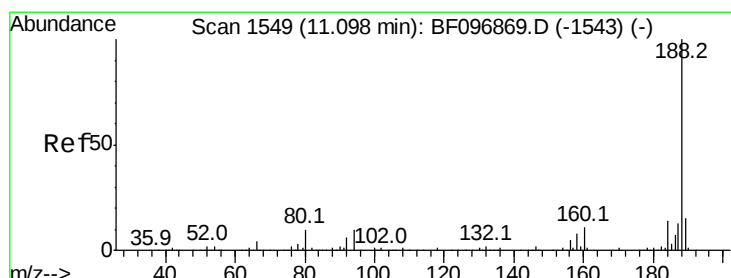
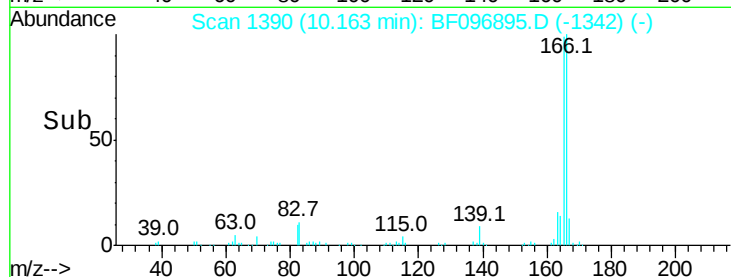
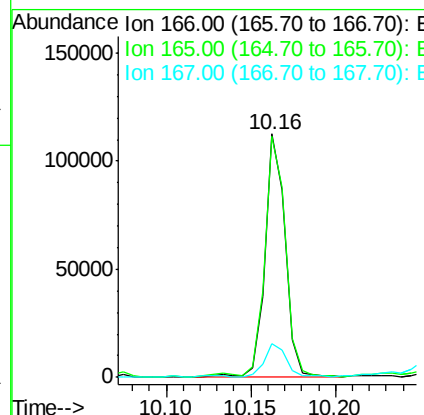
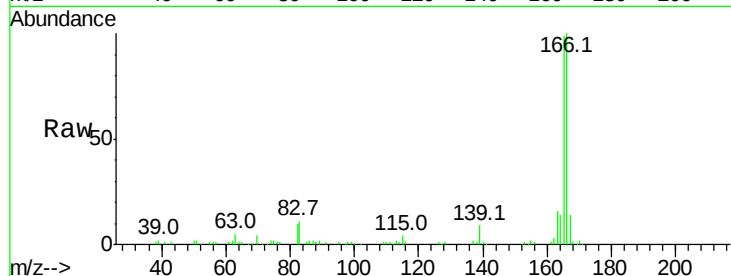
#57
Fluorene
 Concen: 11.127 ng
 RT: 10.16 min Scan# 1390
 Delta R.T. -0.02 min
 Lab File: BF096895.D
 Acq: 20 Jul 2017 3:54

Instrument :
 BNA_F
 ClientSampleId :
 NB-SB03ADL

Tot Ion	Ratio	Lower	Upper
166	100		
165	99.0	78.8	118.2
167	13.7	10.6	16.0

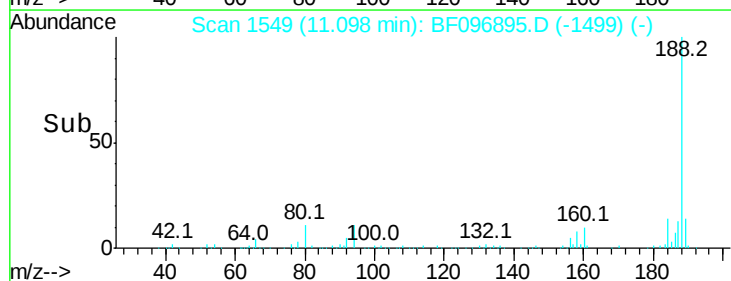
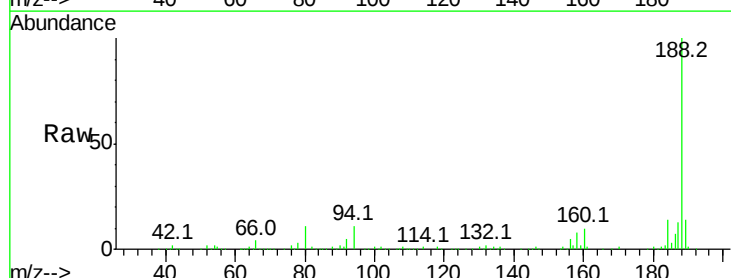
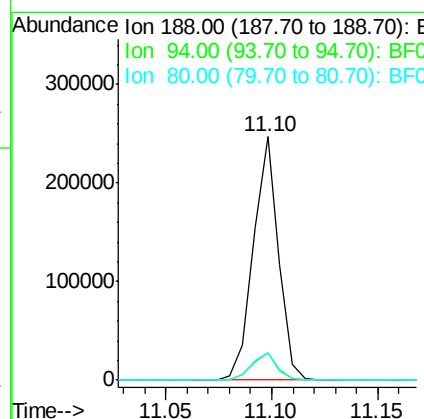
Manual Integrations
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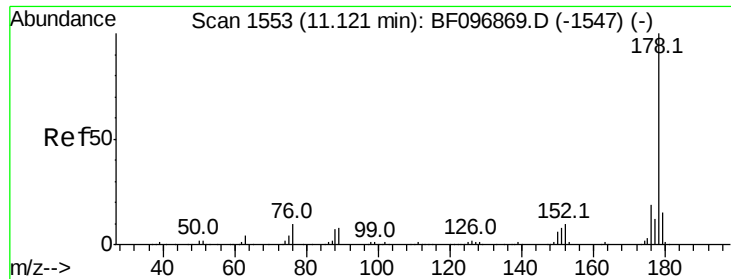
Sohil
 7/20/2017 3:05:20 PM



#63
Phenanthrene-d10
 Concen: 20.000 ng
 RT: 11.10 min Scan# 1549
 Delta R.T. -0.01 min
 Lab File: BF096895.D
 Acq: 20 Jul 2017 3:54

Tgt Ion	Ratio	Lower	Upper
188	100		
94	11.1	9.4	14.2
80	11.4	10.2	15.2





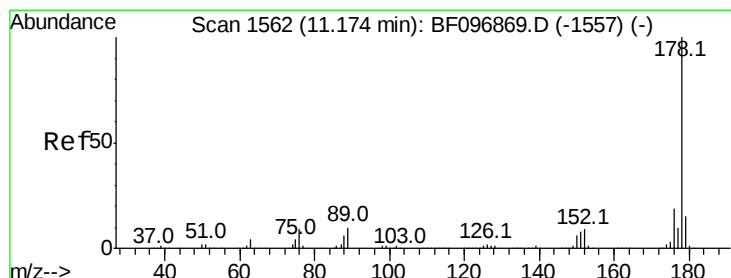
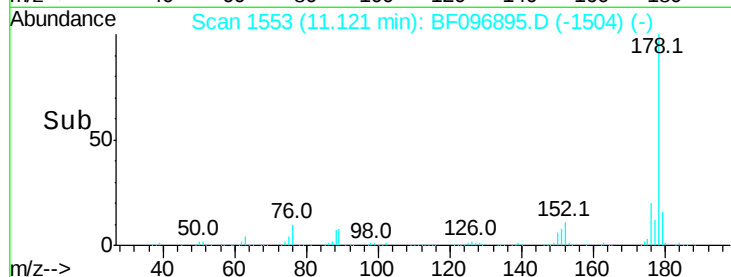
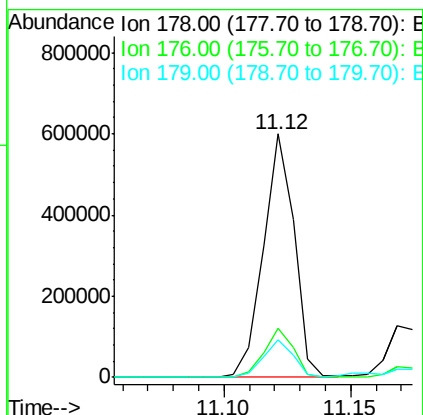
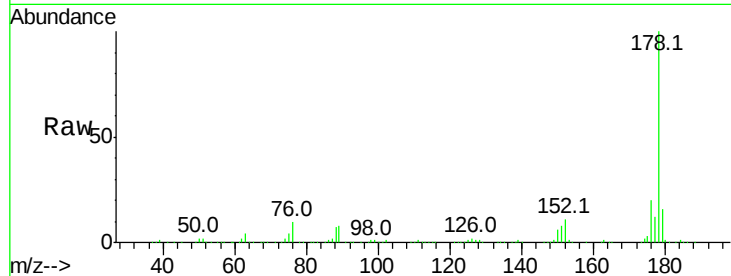
#70
Phenanthrene
Concen: 46.042 ng
RT: 11.12 min Scan# 1553
Delta R.T. -0.01 min
Lab File: BF096895.D
Acq: 20 Jul 2017 3:54

Instrument :
BNA_F
ClientSampleId :
NB-SB03ADL

Tot Ion	Ratio	Lower	Upper
178	100		
176	20.0	16.2	24.4
179	15.6	12.6	19.0

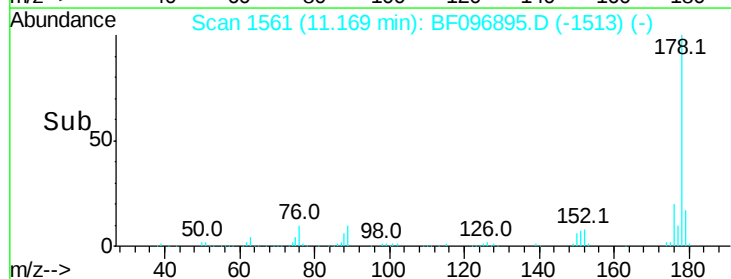
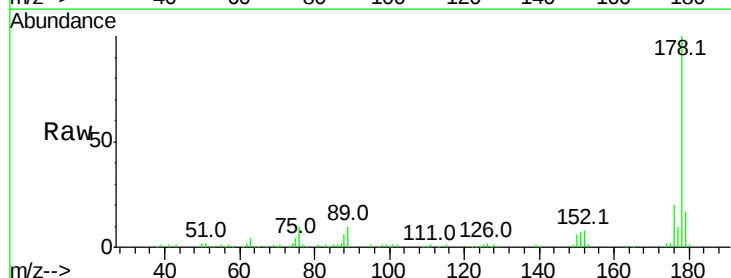
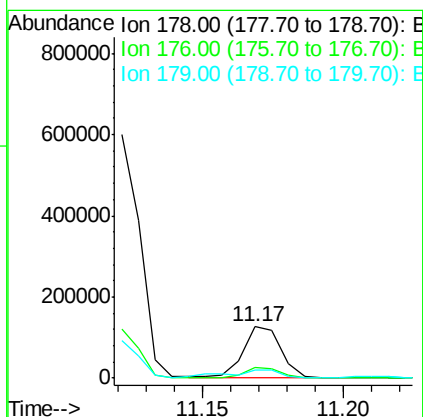
Manual Integrations
APPROVED

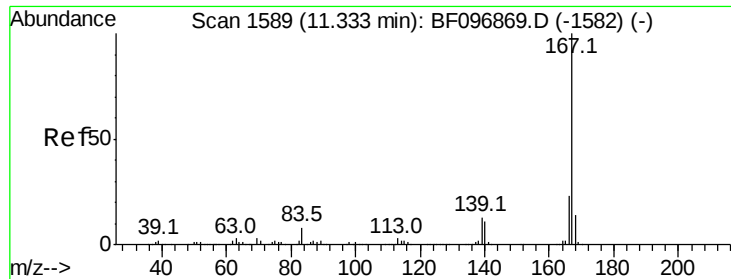
Sohil
7/20/2017 3:05:20 PM



#71
Anthracene
Concen: 10.445 ng
RT: 11.17 min Scan# 1561
Delta R.T. -0.02 min
Lab File: BF096895.D
Acq: 20 Jul 2017 3:54

Tgt Ion	Ratio	Lower	Upper
178	100		
176	19.8	15.8	23.8
179	16.7	12.7	19.1





#72

Carbazole

Concen: 6.010 ng

RT: 11.33 min Scan# 1588

Delta R.T. -0.01 min

Lab File: BF096895.D

Acq: 20 Jul 2017 3:54

Instrument :

BNA_F

ClientSampleId :

NB-SB03ADL

Tot Ion:167 Resp: 65348

Ion Ratio Lower Upper

167 100

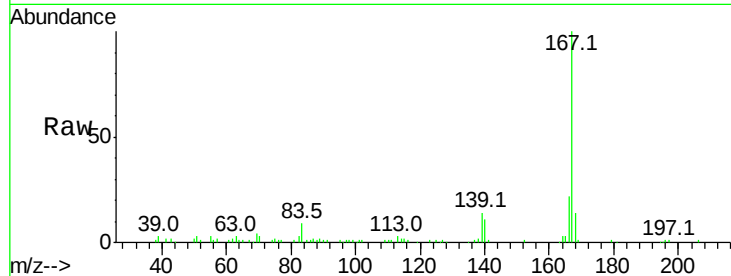
166 22.2 18.1 27.1

139 14.1 11.7 17.5

Manual Integrations
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Sohil

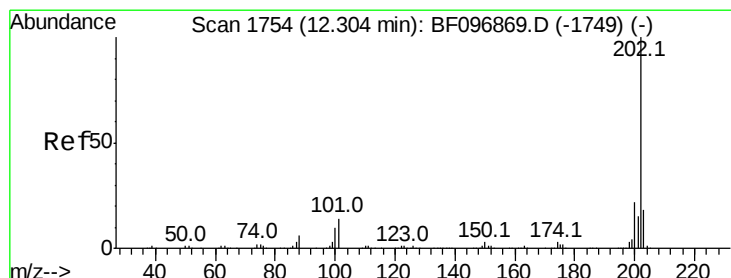
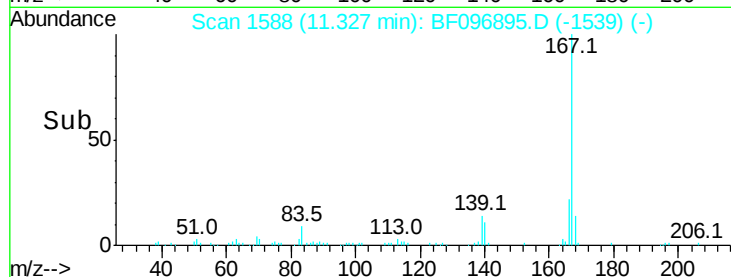
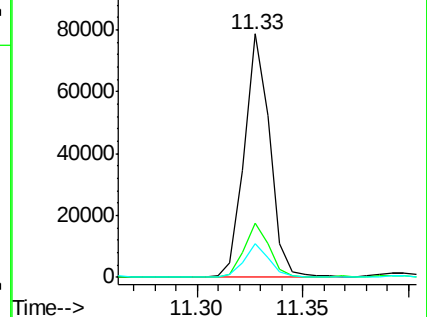
7/20/2017 3:05:20 PM



Abundance Ion 167.00 (166.70 to 167.70): E

Ion 166.00 (165.70 to 166.70): E

Ion 139.00 (138.70 to 139.70): E



#74

Fluoranthene

Concen: 39.496 ng

RT: 12.30 min Scan# 1754

Delta R.T. -0.01 min

Lab File: BF096895.D

Acq: 20 Jul 2017 3:54

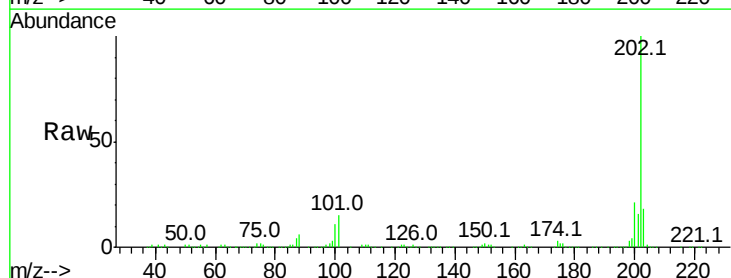
Tgt Ion:202 Resp: 419817

Ion Ratio Lower Upper

202 100

101 14.6 0.0 33.2

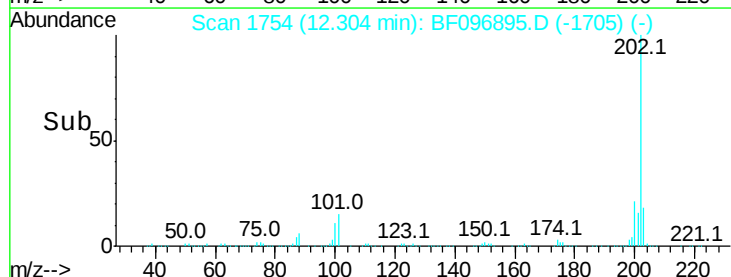
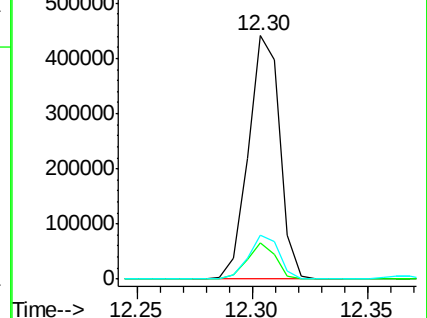
203 17.9 0.0 38.1

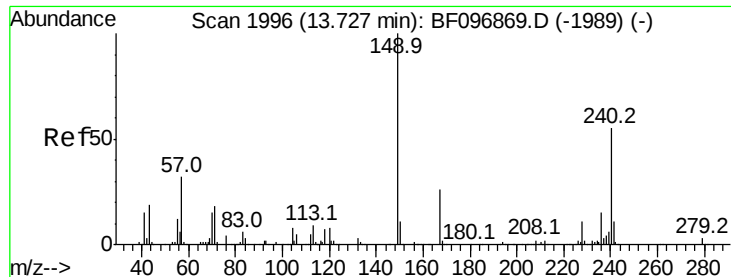


Abundance Ion 202.00 (201.70 to 202.70): E

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: 13.73 min Scan# 1996

Delta R.T. -0.01 min

Lab File: BF096895.D

Acq: 20 Jul 2017 3:54

Instrument :

BNA_F

ClientSampleId :

NB-SB03ADL

Tot Ion:240 Resp: 175612

Ion Ratio Lower Upper

240 100

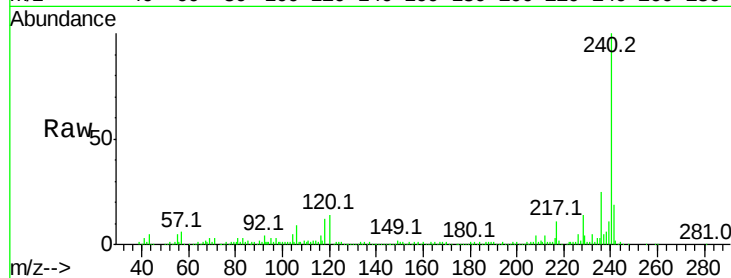
120 14.4 5.8 8.8#

236 24.8 20.5 30.7

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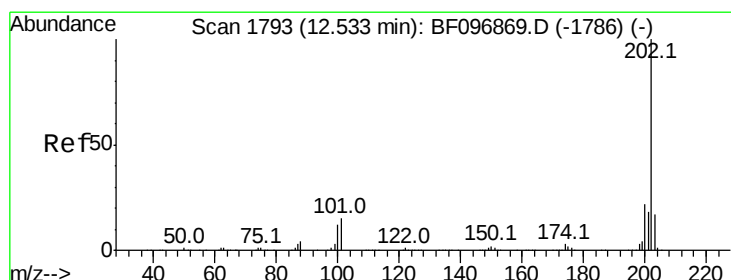
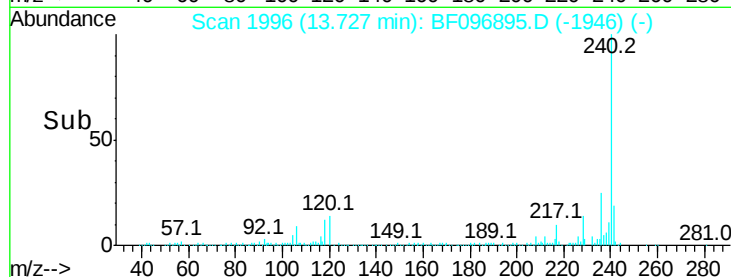
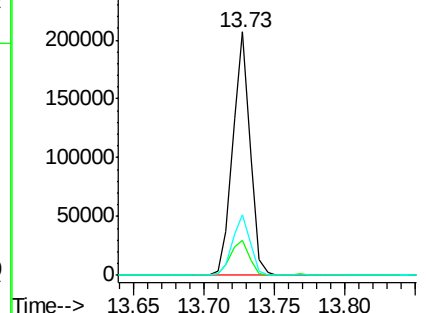
7/20/2017 3:05:20 PM



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: 18.579 ng

RT: 12.53 min Scan# 1793

Delta R.T. -0.01 min

Lab File: BF096895.D

Acq: 20 Jul 2017 3:54

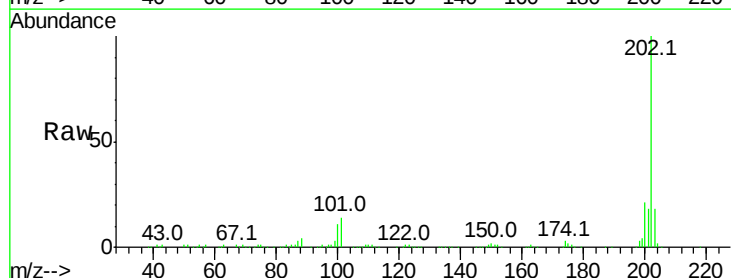
Tgt Ion:202 Resp: 296114

Ion Ratio Lower Upper

202 100

200 21.2 17.6 26.4

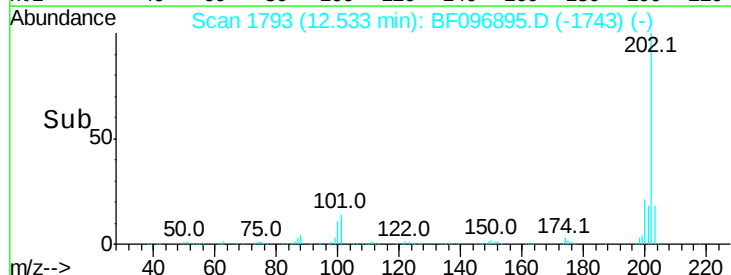
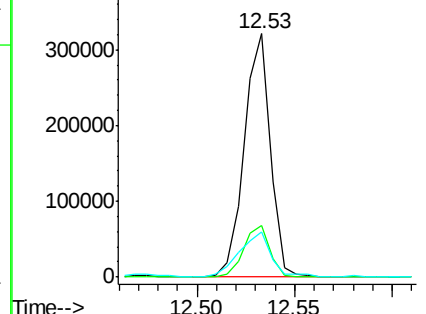
203 18.4 14.4 21.6

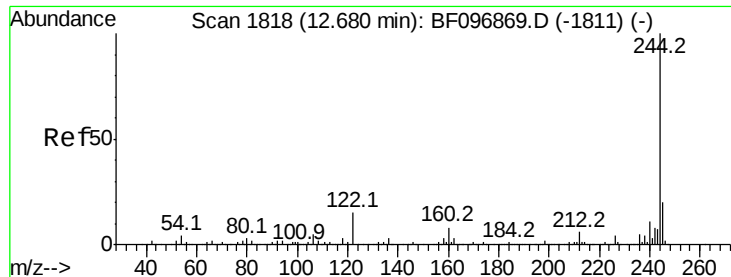


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





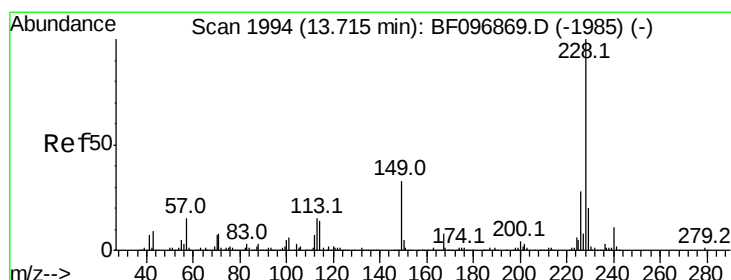
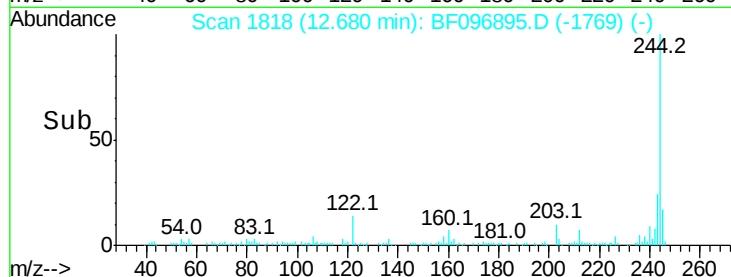
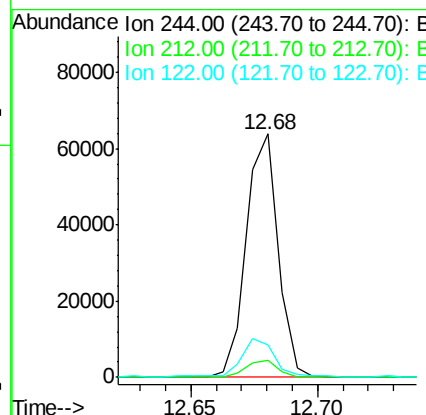
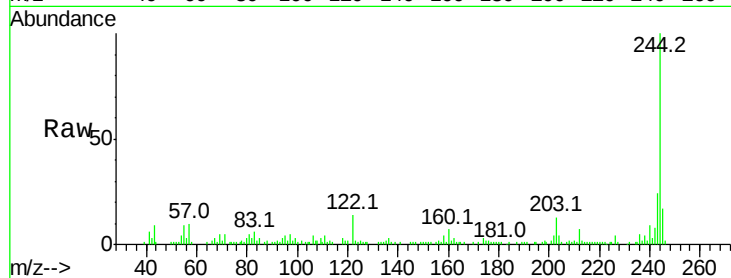
#78
 Terphenyl-d14
 Concen: 5.492 ng
 RT: 12.68 min Scan# 1818
 Delta R.T. -0.01 min
 Lab File: BF096895.D
 Acq: 20 Jul 2017 3:54

Instrument :
 BNA_F
 ClientSampleId :
 NB-SB03ADL

Tot Ion	Ratio	Lower	Upper
244	100		
212	6.8	6.0	9.0
122	13.5	10.3	15.5

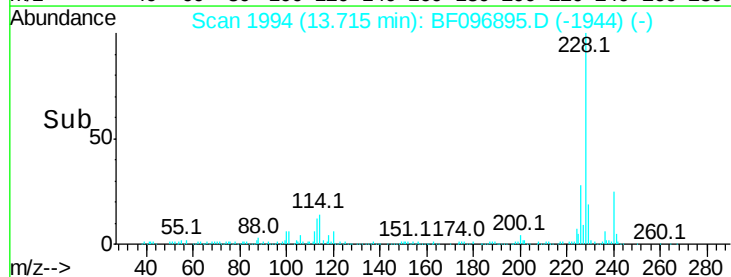
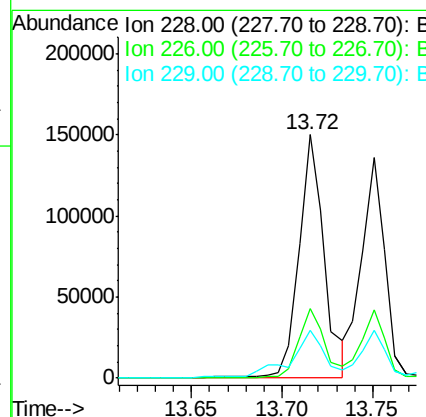
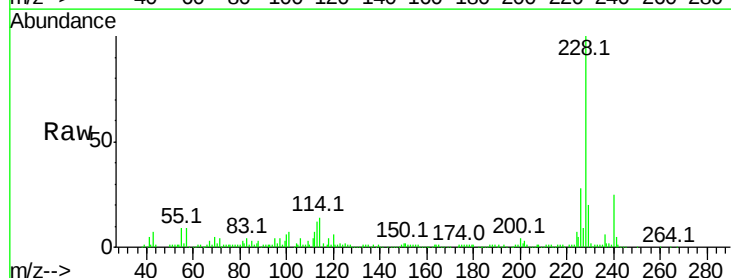
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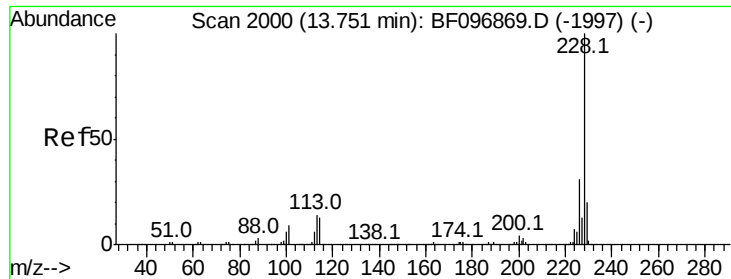
Sohil
 7/20/2017 3:05:20 PM



#80
 Benzo(a)anthracene
 Concen: 13.513 ng
 RT: 13.72 min Scan# 1994
 Delta R.T. -0.01 min
 Lab File: BF096895.D
 Acq: 20 Jul 2017 3:54

Tgt Ion	Ratio	Lower	Upper
228	100		
226	28.5	22.6	33.8
229	19.9	16.3	24.5





#82

Chrysene

Concen: 11.357 ng

RT: 13.75 min Scan# 2000

Delta R.T. -0.01 min

Lab File: BF096895.D

Acq: 20 Jul 2017 3:54

Instrument :

BNA_F

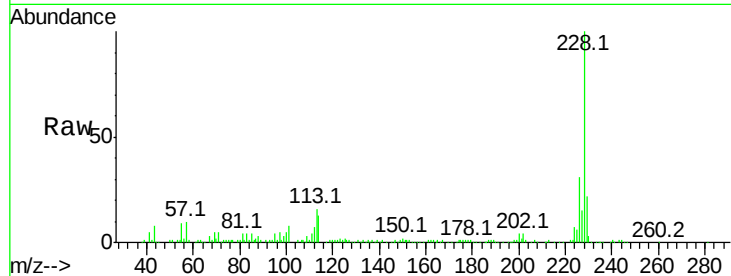
ClientSampleId :

NB-SB03ADL

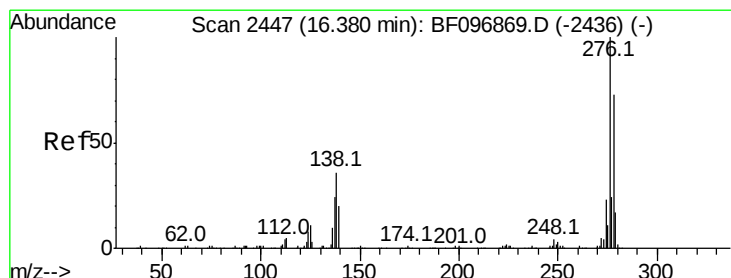
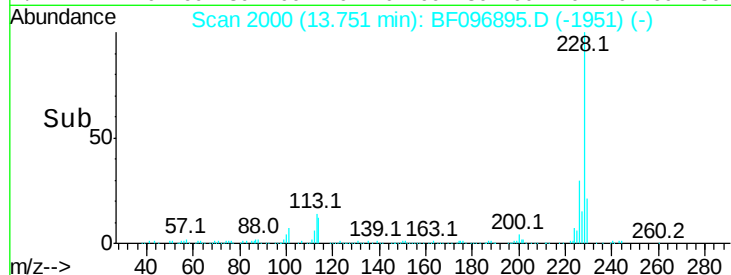
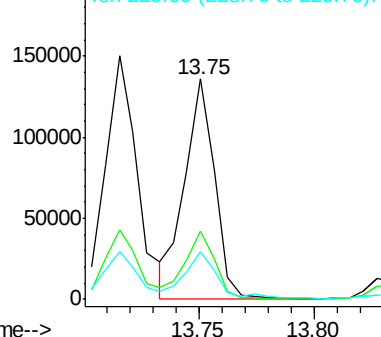
Tot Ion:	228	Resp:	122342
Ion Ratio	Lower	Upper	
228	100		
226	30.8	24.9	37.3
229	21.6	15.8	23.6

Manual Integrations
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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: 6.969 ng

RT: 16.38 min Scan# 2447

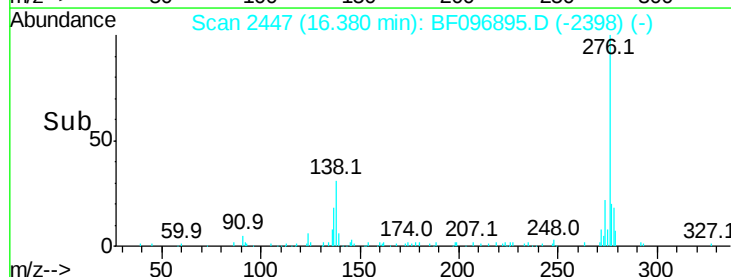
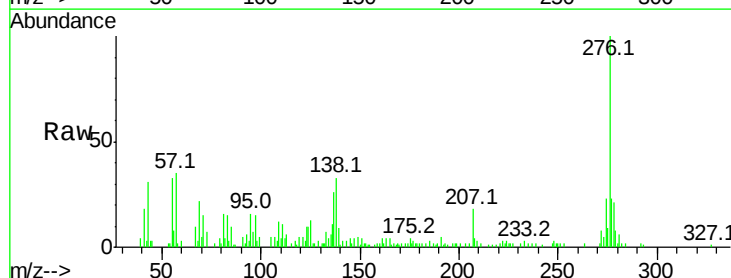
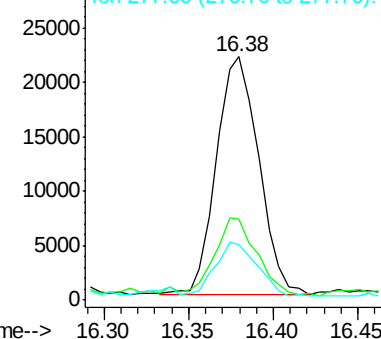
Delta R.T. -0.01 min

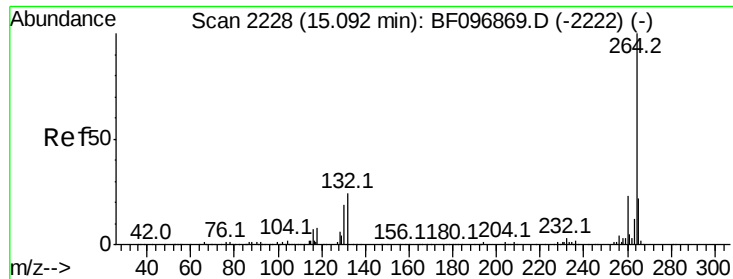
Lab File: BF096895.D

Acq: 20 Jul 2017 3:54

Tgt Ion:	276	Resp:	37845
Ion Ratio	Lower	Upper	
276	100		
138	34.8	27.8	41.6
277	27.8	20.2	30.4

Abundance Ion 276.00 (275.70 to 276.70): E
Ion 138.00 (137.70 to 138.70): E
Ion 277.00 (276.70 to 277.70): E





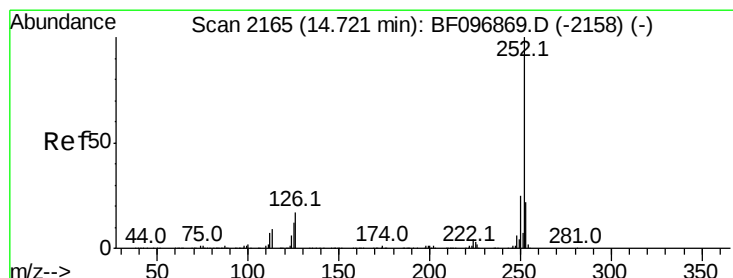
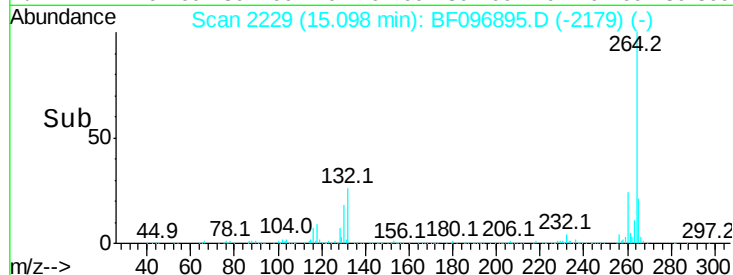
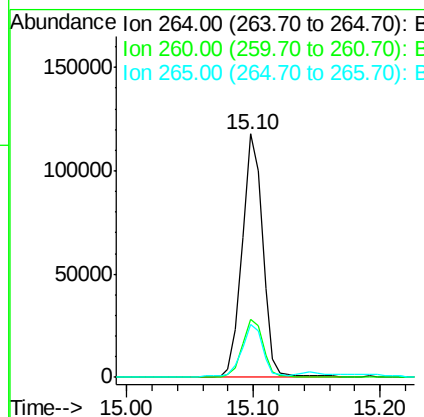
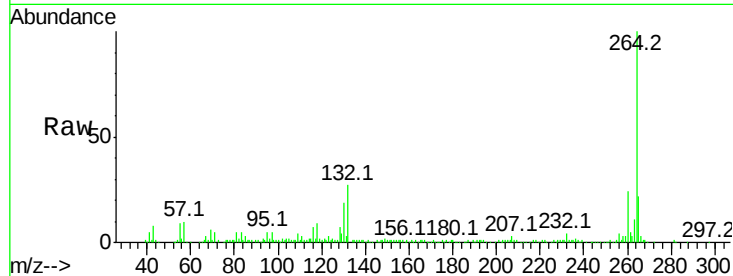
#86
Pervlene-d12
Concen: 20.000 ng
RT: 15.10 min Scan# 2229
Delta R.T. -0.01 min
Lab File: BF096895.D
Acq: 20 Jul 2017 3:54

Instrument :
BNA_F
ClientSampleId :
NB-SB03ADL

Tot Ion	Ratio	Lower	Upper
264	100		
260	24.0	19.5	29.3
265	21.6	17.2	25.8

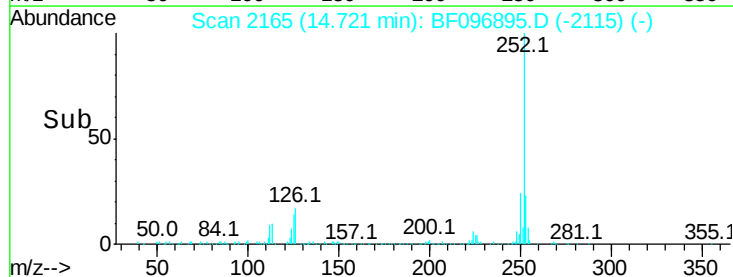
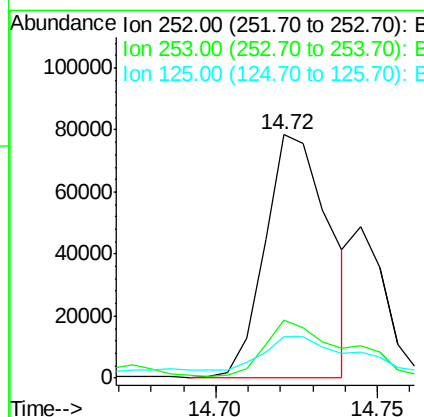
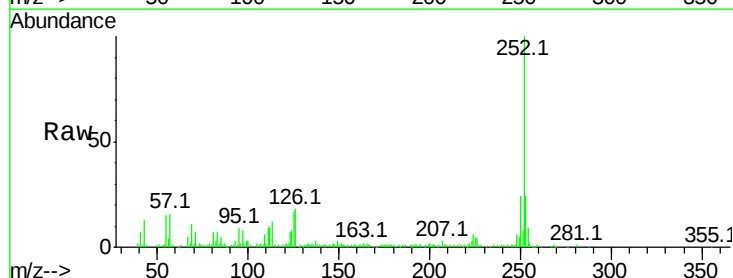
Manual Integrations
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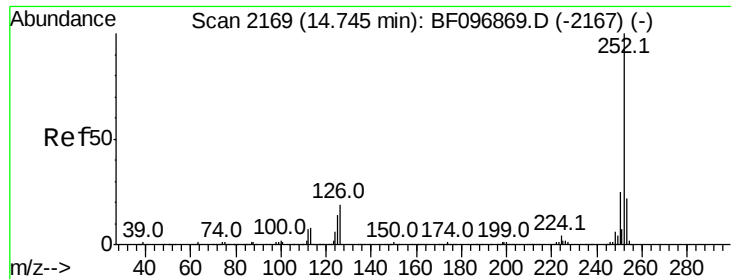
Sohil
7/20/2017 3:05:20 PM



#87
Benzo(b)fluoranthene
Concen: 13.689 ng m
RT: 14.72 min Scan# 2165
Delta R.T. -0.01 min
Lab File: BF096895.D
Acq: 20 Jul 2017 3:54

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.7	18.1	27.1
125	16.9	9.8	14.8#





#88

Benzo(k)fluoranthene

Concen: 4.716 ng/mL

RT: 14.74 min Scan# 2169

Delta R.T. -0.01 min

Lab File: BF096895.D

Acq: 20 Jul 2017 3:54

Instrument :

BNA_F

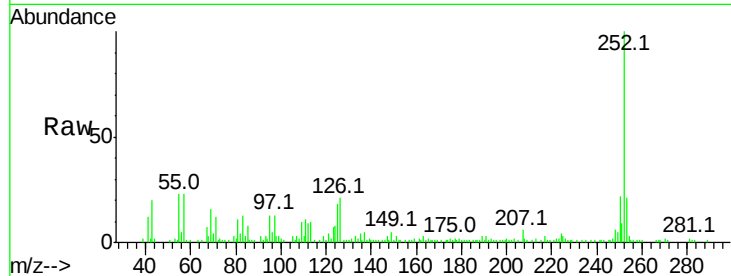
ClientSampleId :

NB-SB03ADL

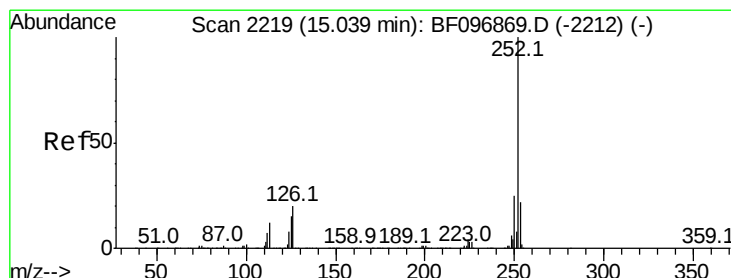
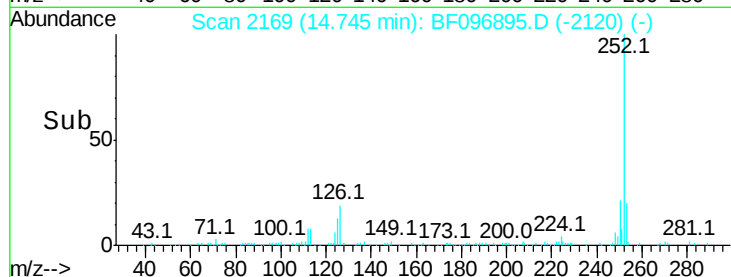
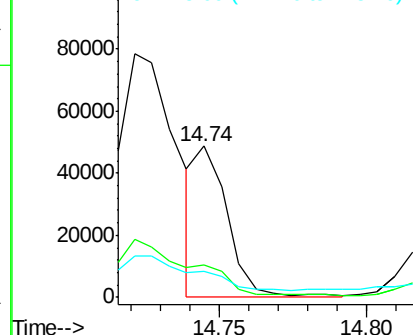
Tot Ion:	252	Resp:	35631
Ion Ratio	Lower	Upper	
252	100		
253	21.0	18.4	27.6
125	17.5	13.1	19.7

Manual Integrations
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Abundance Ion 252.00 (251.70 to 252.70): E
Ion 253.00 (252.70 to 253.70): E
Ion 125.00 (124.70 to 125.70): E



#89

Benzo(a)pyrene

Concen: 10.399 ng/mL

RT: 15.04 min Scan# 2220

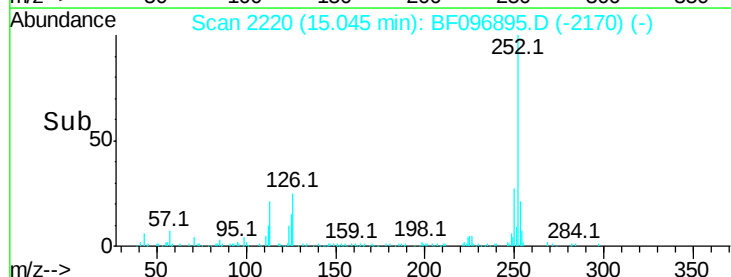
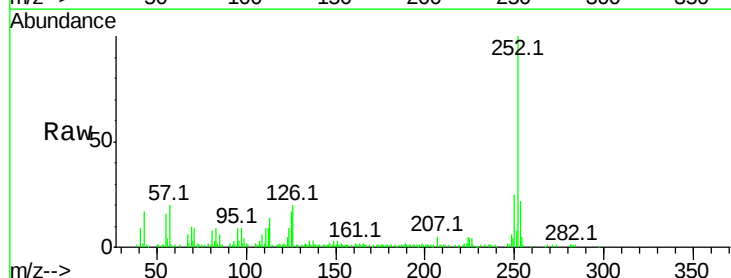
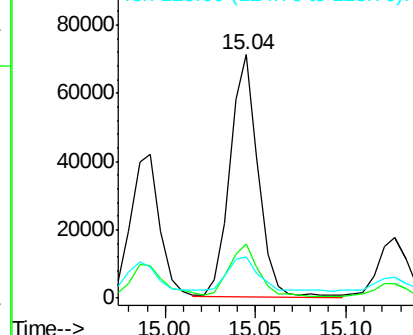
Delta R.T. -0.01 min

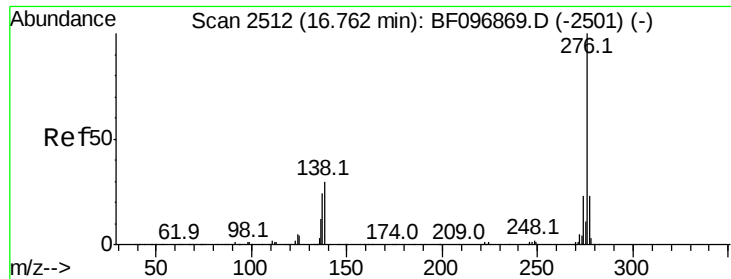
Lab File: BF096895.D

Acq: 20 Jul 2017 3:54

Tgt Ion:	252	Resp:	76088
Ion Ratio	Lower	Upper	
252	100		
253	22.2	17.5	26.3
125	16.8	11.0	16.4#

Abundance Ion 252.00 (251.70 to 252.70): E
Ion 253.00 (252.70 to 253.70): E
Ion 125.00 (124.70 to 125.70): E





#91
 Benzo(a,h,i)perylene
 Concen: 4.709 ng
 RT: 16.76 min Scan# 2512
 Delta R.T. -0.02 min
 Lab File: BF096895.D
 Acq: 20 Jul 2017 3:54

Instrument :
 BNA_F
 ClientSampleId :
 NB-SB03ADL

Tot Ion	Ratio	Lower	Upper
276	100		
277	24.8	18.6	28.0
138	30.0	25.4	38.0

Manual Integrations
 APPROVED

Sohil
 7/20/2017 3:05:20 PM

