

Data Path : Z:\HPCHEM1\BNA F\DATA\BF092217\
 Data File : BF098699.D
 Acq On : 22 Sep 2017 14:52
 Operator : SJ/JU
 Sample : I5310-04 5X
 Misc :
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 NB-01-091917-B

Manual Integrations
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Quant Time: Sep 22 15:26:20 2017
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF092117.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Sep 22 11:54:28 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.93	152	162053	20.00	ng	0.00
21) Naphthalene-d8	8.22	136	624383	20.00	ng	0.00
38) Acenaphthene-d10	9.97	164	252314	20.00	ng	0.00
63) Phenanthrene-d10	11.46	188	352080	20.00	ng	0.00
75) Chrysene-d12	14.10	240	307060	20.00	ng	0.02
86) Perylene-d12	15.60	264	323718	20.00	ng	0.02

System Monitoring Compounds

5) 2-Fluorophenol	5.53	112	140483	13.16	ng	0.00
7) Phenol-d6	6.53	99	171001	13.23	ng	-0.01
23) Nitrobenzene-d5	7.48	82	87350	9.49	ng	-0.01
41) 2,4,6-Tribromophenol	10.75	330	23383m	10.13	ng	0.00
44) 2-Fluorobiphenyl	9.28	172	180871	11.41	ng	0.00
78) Terphenyl-d14	13.03	244	129355	9.05	ng	0.00

Target Compounds

						Qvalue
31) Naphthalene	8.25	128	4799475	161.955	ng	97
37) 2-Methylnaphthalene	8.93	142	2494847	131.114	ng	97
45) 1,1'-Biphenyl	9.39	154	549250	25.338	ng	98
48) Acenaphthylene	9.83	152	474723	18.988	ng	# 95
51) Acenaphthene	10.00	154	982911	63.338	ng	99
54) Dibenzofuran	10.17	168	1281578	60.480	ng	99
57) Fluorene	10.52	166	1612176	94.656	ng	100
70) Phenanthrene	11.50	178	4725949	247.439	ng	99
71) Anthracene	11.54	178	1873819	96.218	ng	99
72) Carbazole	11.68	167	757277	39.795	ng	99
74) Fluoranthene	12.69	202	3636647	191.059	ng	99
77) Pyrene	12.92	202	3572754	156.723	ng	99
80) Benzo(a)anthracene	14.09	228	1900719	102.766	ng	97
82) Chrysene	14.13	228	1500583	84.012	ng	99
85) Indeno(1,2,3-cd)pyrene	17.12	276	667170	48.151	ng	94
87) Benzo(b)fluoranthene	15.16	252	1728820m	92.085	ng	
88) Benzo(k)fluoranthene	15.19	252	668121m	35.612	ng	
89) Benzo(a)pyrene	15.54	252	1377155	80.772	ng	97
90) Dibenzo(a,h)anthracene	17.12	278	158778	11.011	ng	95
91) Benzo(a,h,i)perylene	17.57	276	621201	42.856	ng	97

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

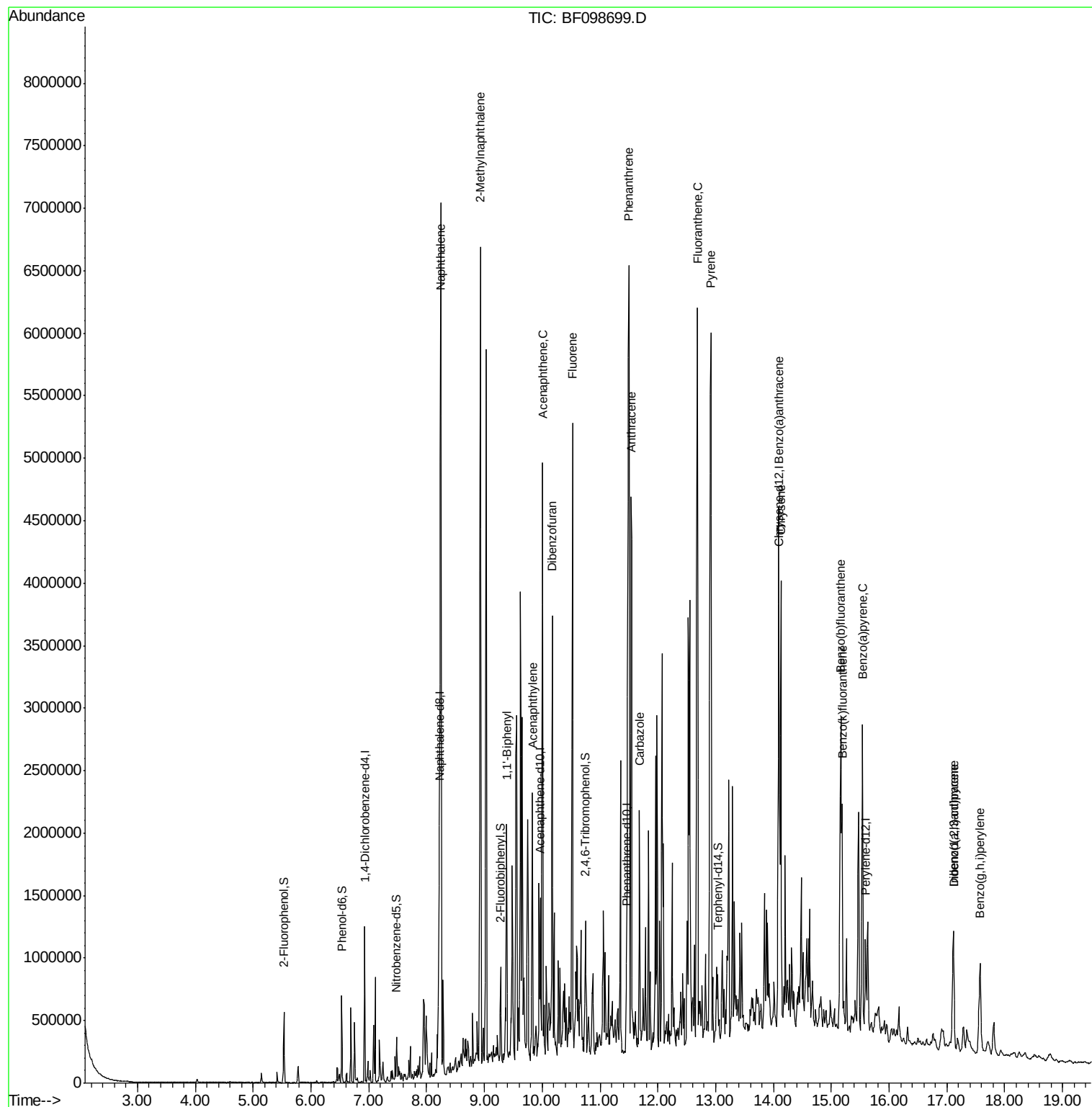
Data Path : Z:\HPCHEM1\BNA F\DATA\BF092217\
Data File : BF098699.D
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Sample : I5310-04 5X
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ALS Vial : 16 Sample Multiplier: 1

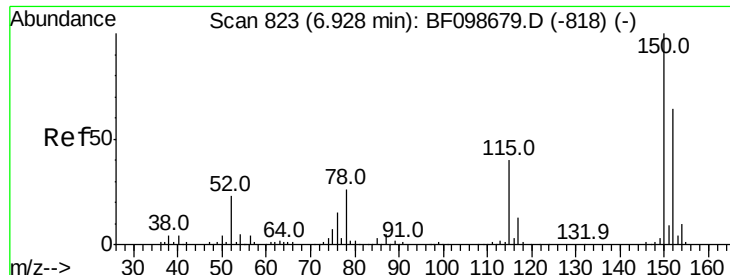
Instrument :
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NB-01-091917-B

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
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#1

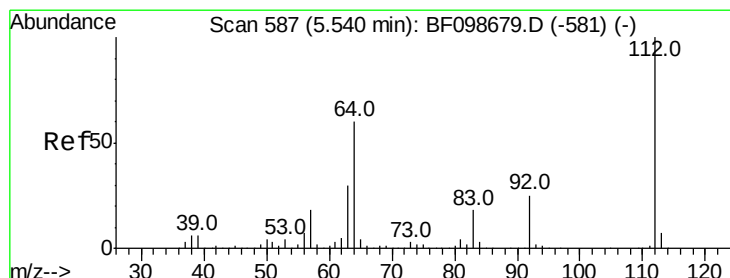
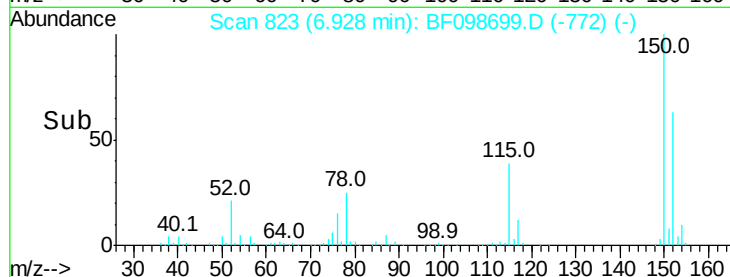
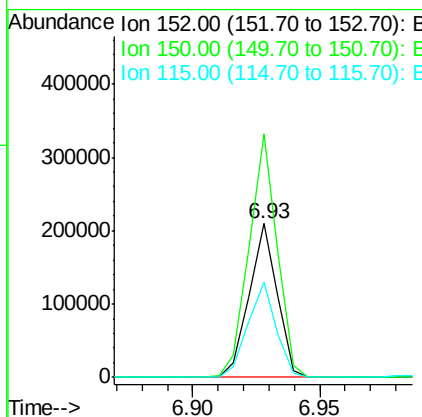
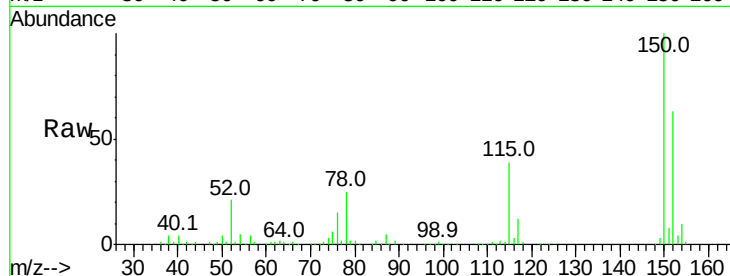
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.93 min Scan# 823
Delta R.T. 0.00 min
Lab File: BF098699.D
Acq: 22 Sep 2017 14:52

Instrument :
BNA_F
ClientSampleId :
NB-01-091917-B

Tot Ion	Ratio	Lower	Upper
152	100		
150	158.2	124.6	186.8
115	61.9	50.1	75.1

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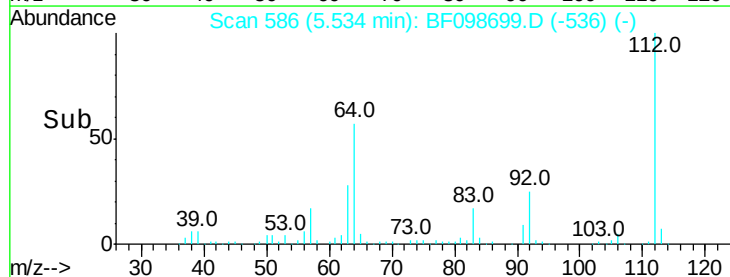
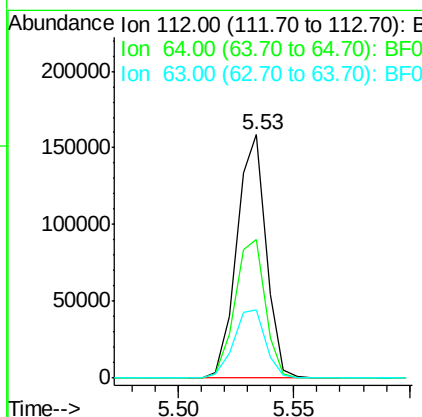
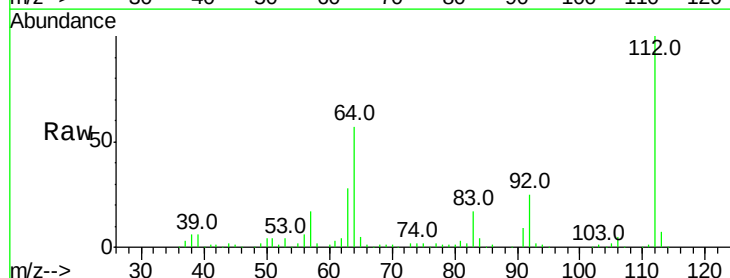
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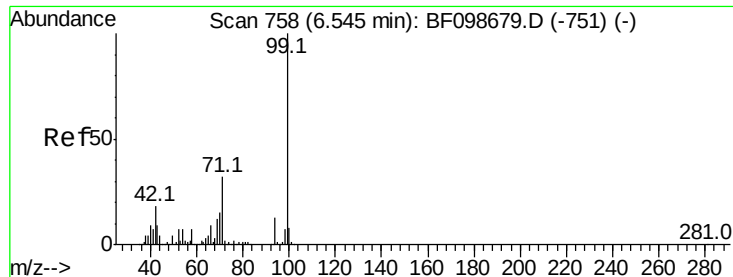


#5

2-Fluorophenol
Concen: 13.164 ng
RT: 5.53 min Scan# 586
Delta R.T. -0.01 min
Lab File: BF098699.D
Acq: 22 Sep 2017 14:52

Tgt Ion	Ratio	Lower	Upper
112	100		
64	57.1	47.9	71.9
63	28.2	23.7	35.5





#7

Phenol-d6

Concen: 13.232 ng

RT: 6.53 min Scan# 756

Delta R.T. -0.01 min

Lab File: BF098699.D

Acq: 22 Sep 2017 14:52

Instrument :

BNA_F

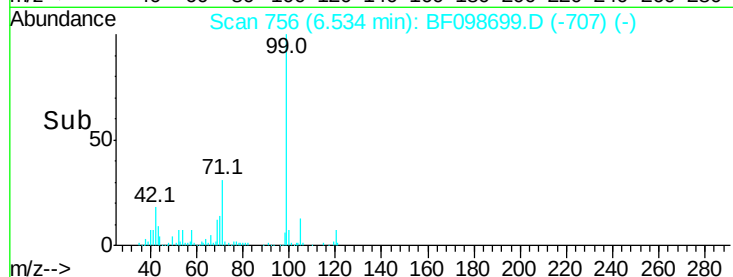
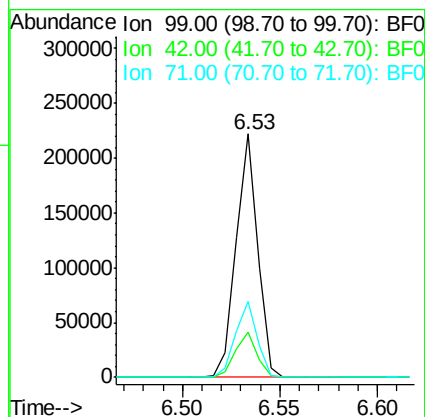
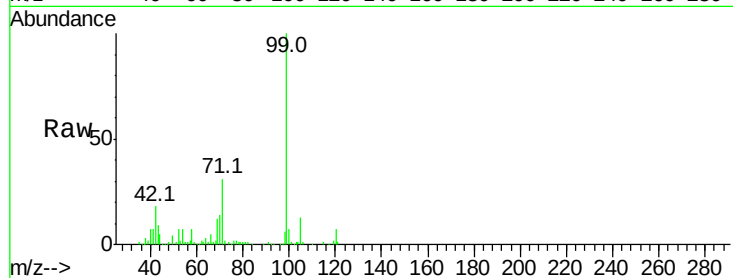
ClientSampleId :

NB-01-091917-B

Tot Ion:	99	Resp:	171001
Ion Ratio	Lower	Upper	
99	100		
42	18.5	14.5	21.7
71	31.0	25.4	38.0

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#21

Naphthalene-d8

Concen: 20.000 ng

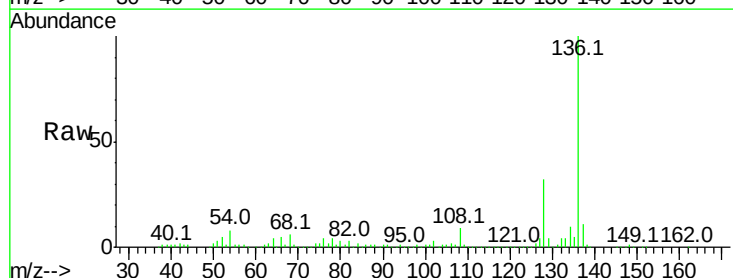
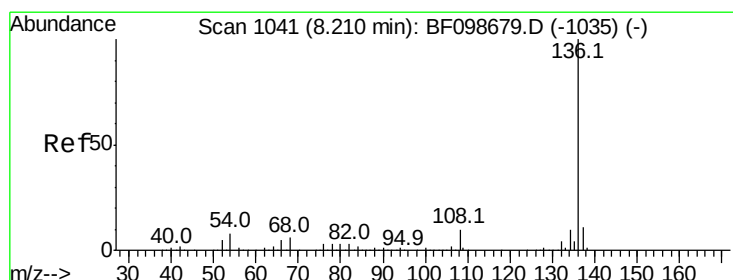
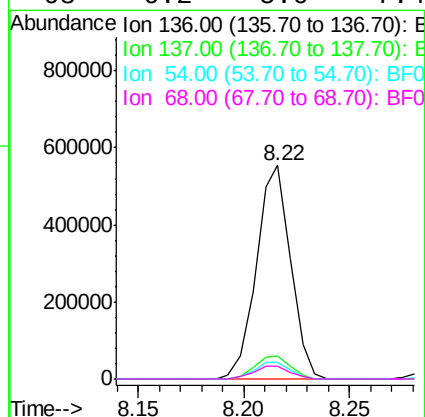
RT: 8.22 min Scan# 1042

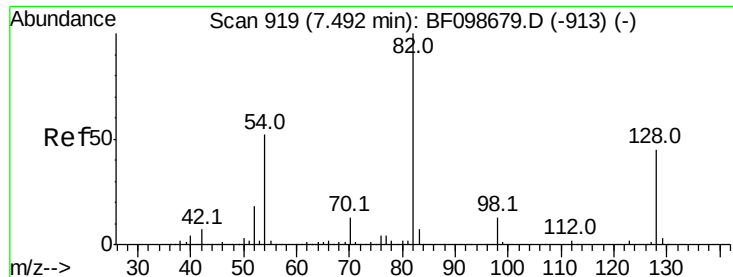
Delta R.T. 0.01 min

Lab File: BF098699.D

Acq: 22 Sep 2017 14:52

Tgt Ion:	136	Resp:	624383
Ion Ratio	Lower	Upper	
136	100		
137	11.0	8.9	13.3
54	7.8	6.6	9.8
68	6.2	5.0	7.4





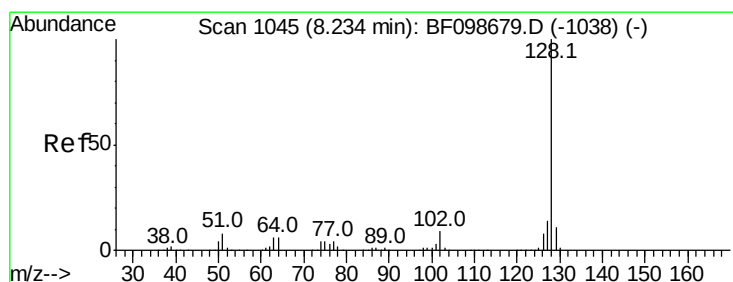
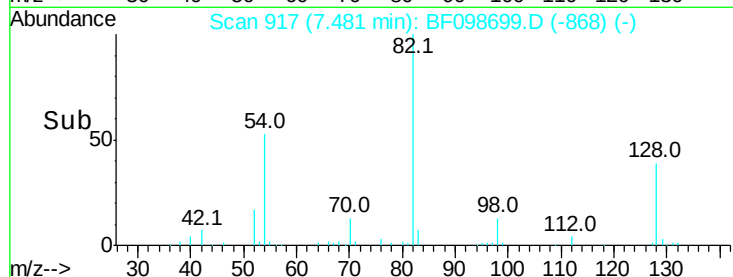
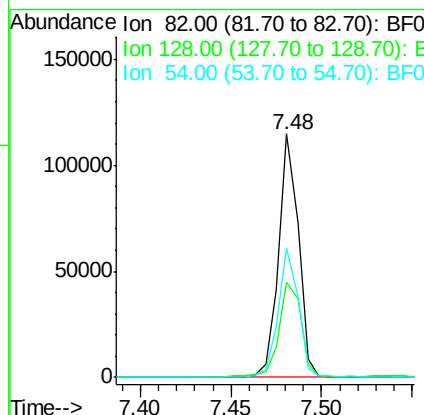
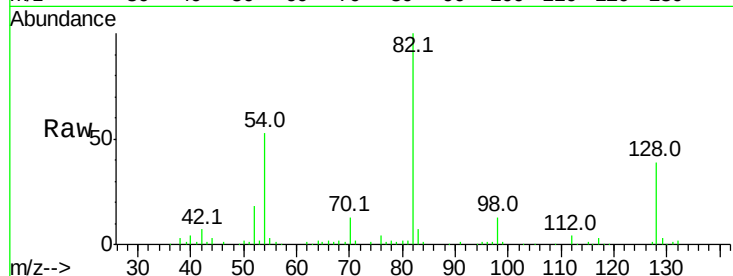
#23
Nitrobenzene-d5
Concen: 9.489 ng
RT: 7.48 min Scan# 917
Delta R.T. -0.01 min
Lab File: BF098699.D
Acq: 22 Sep 2017 14:52

Instrument :
BNA_F
ClientSampleId :
NB-01-091917-B

Tot Ion	Ratio	Lower	Upper
82	100		
128	39.2	36.1	54.1
54	53.1	41.4	62.2

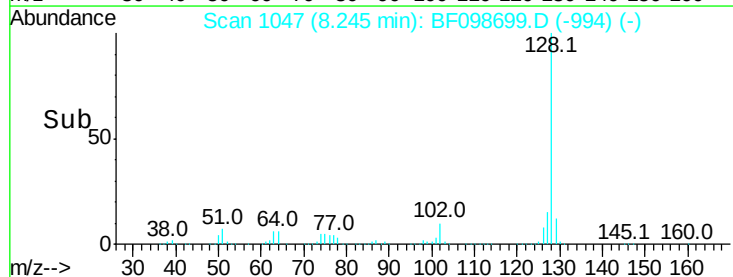
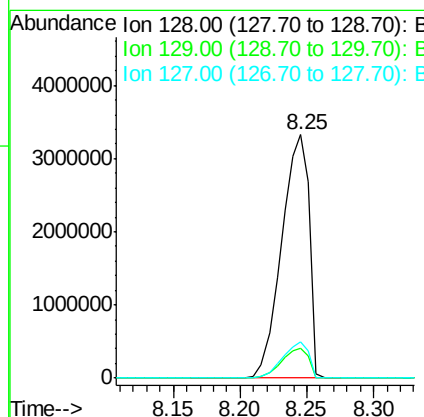
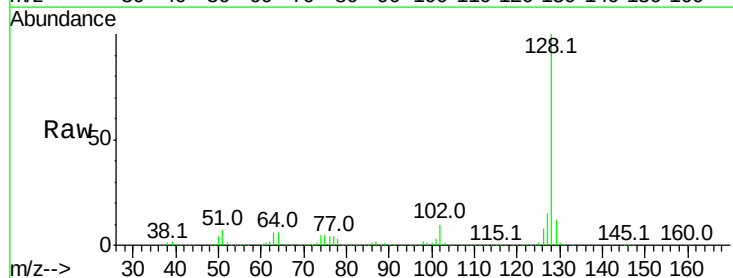
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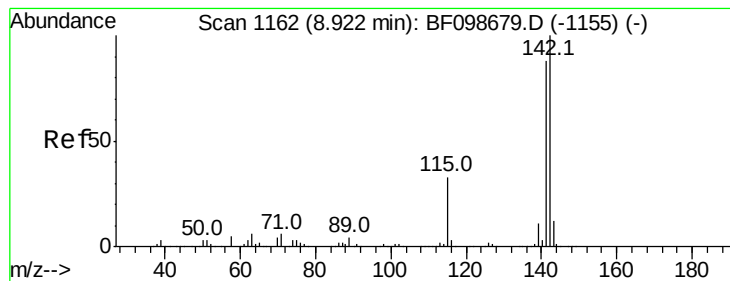
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#31
Naphthalene
Concen: 161.955 ng
RT: 8.25 min Scan# 1047
Delta R.T. 0.01 min
Lab File: BF098699.D
Acq: 22 Sep 2017 14:52

Tgt Ion	Ratio	Lower	Upper
128	100		
129	12.1	8.8	13.2
127	14.8	10.9	16.3





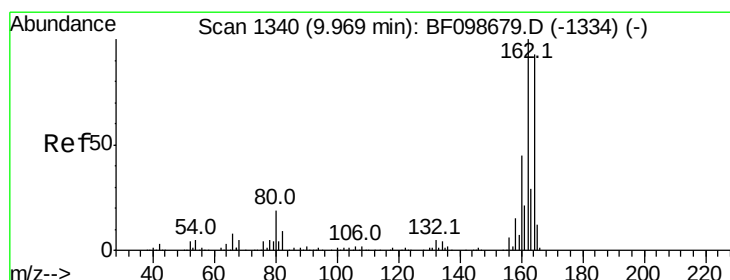
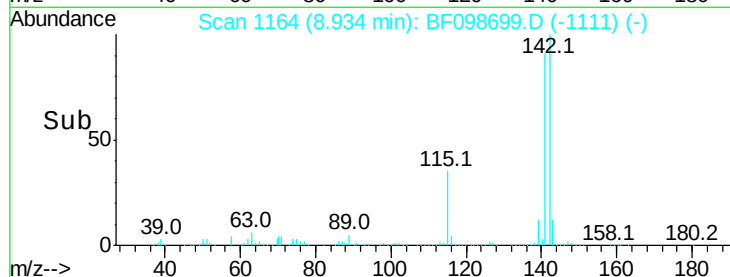
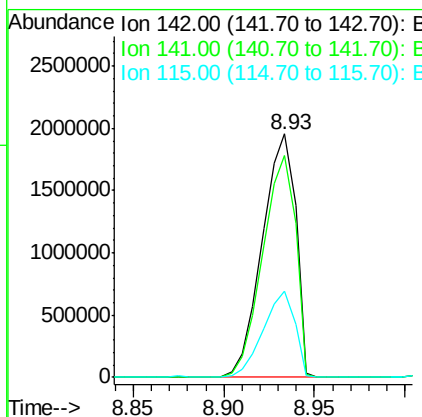
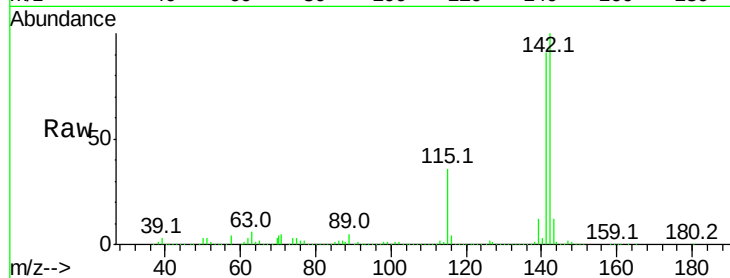
#37
 2-Methylnaphthalene
 Concen: 131.114 ng
 RT: 8.93 min Scan# 1164
 Delta R.T. 0.01 min
 Lab File: BF098699.D
 Acq: 22 Sep 2017 14:52

Instrument :
 BNA_F
 ClientSampleId :
 NB-01-091917-B

Tot Ion	Ratio	Lower	Upper
142	100		
141	90.9	70.8	106.2
115	35.5	26.1	39.1

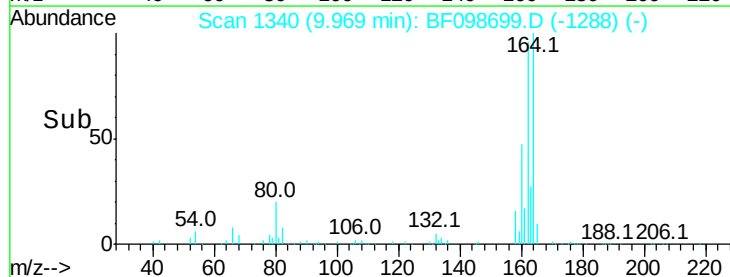
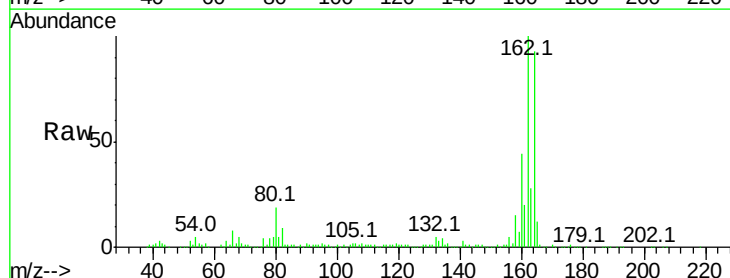
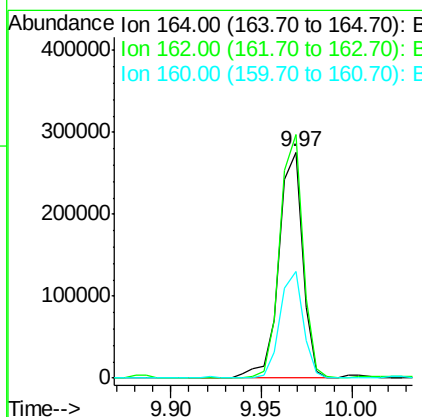
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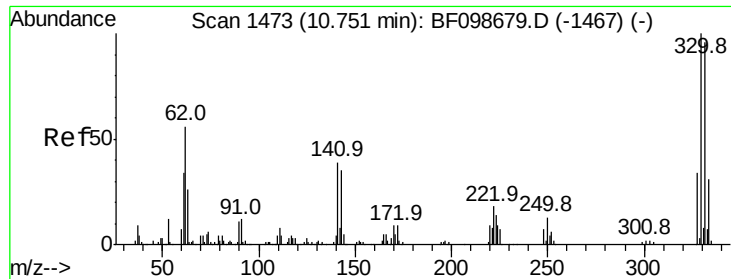
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#38
 Acenaphthene-d10
 Concen: 20.000 ng
 RT: 9.97 min Scan# 1340
 Delta R.T. 0.01 min
 Lab File: BF098699.D
 Acq: 22 Sep 2017 14:52

Tgt Ion	Ratio	Lower	Upper
164	100		
162	107.7	86.1	129.1
160	46.9	38.3	57.5





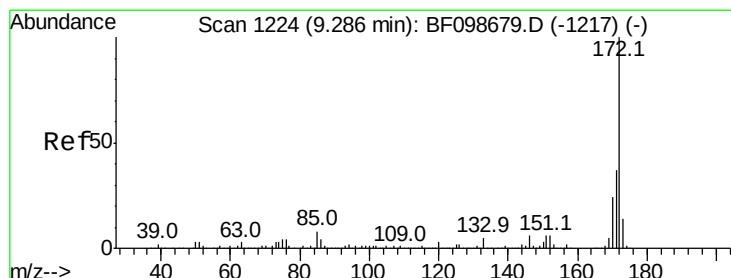
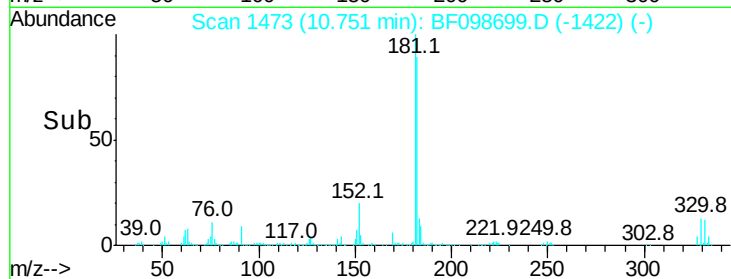
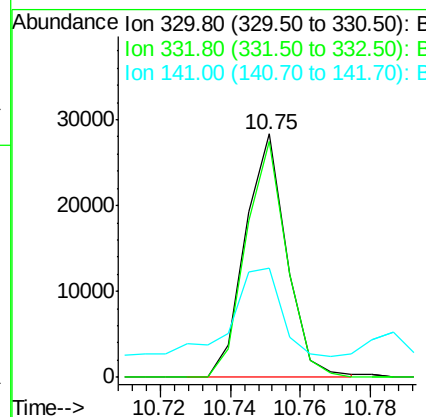
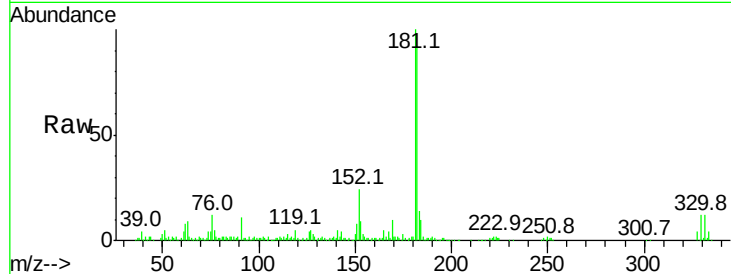
#41
 2,4,6-Tribromophenol
 Concen: 10.134 ng/ml
 RT: 10.75 min Scan# 1473
 Delta R.T. 0.00 min
 Lab File: BF098699.D
 Acq: 22 Sep 2017 14:52

Instrument :
 BNA_F
 ClientSampleId :
 NB-01-091917-B

Tot Ion	Ratio	Lower	Upper
330	100		
332	0.0	77.0	115.6#
141	0.0	29.9	44.9#

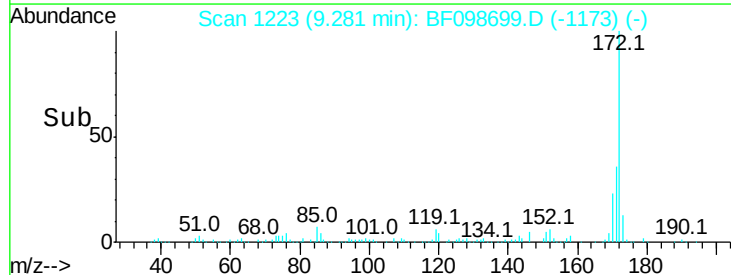
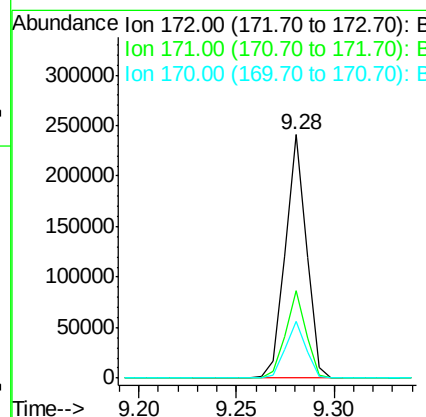
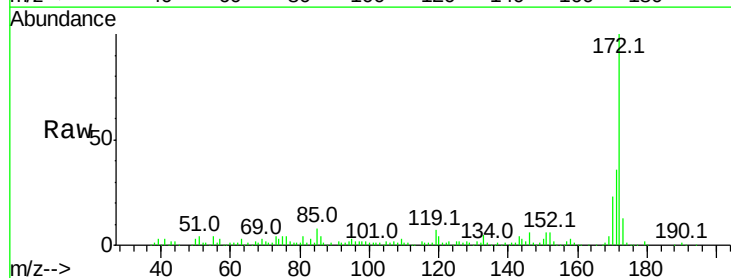
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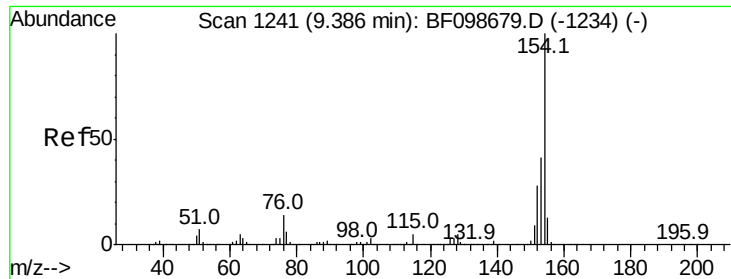
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#44
 2-Fluorobiphenyl
 Concen: 11.407 ng
 RT: 9.28 min Scan# 1223
 Delta R.T. -0.01 min
 Lab File: BF098699.D
 Acq: 22 Sep 2017 14:52

Tgt Ion	Ratio	Lower	Upper
172	100		
171	35.9	29.7	44.5
170	23.5	19.6	29.4





#45

1,1'-Biphenyl

Concen: 25.338 ng

RT: 9.39 min Scan# 1241

Delta R.T. 0.00 min

Lab File: BF098699.D

Acq: 22 Sep 2017 14:52

Instrument :

BNA_F

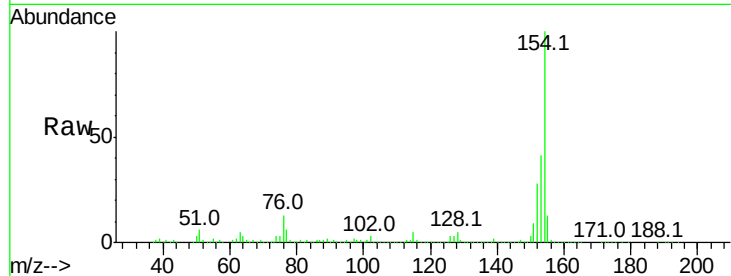
ClientSampleId :

NB-01-091917-B

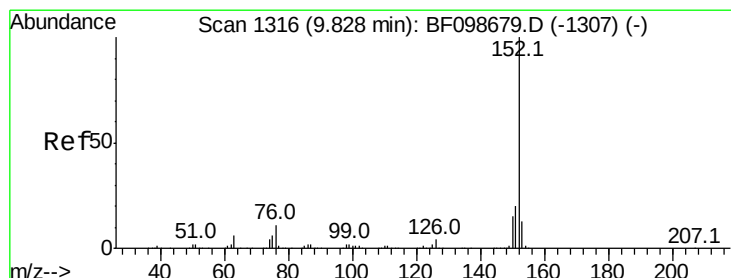
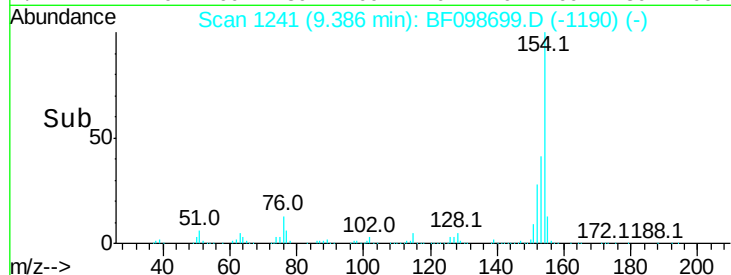
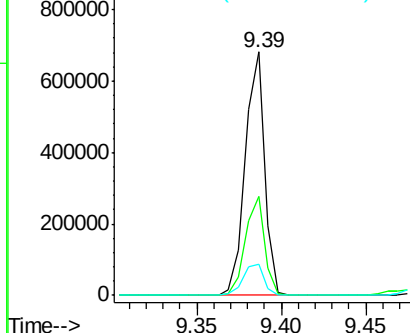
Tot Ion:	154	Resp:	549250
Ion Ratio	Lower	Upper	
154	100		
153	40.6	21.3	61.3
76	12.8	0.0	34.0

Manual Integrations
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Abundance Ion 154.00 (153.70 to 154.70): E
Ion 153.00 (152.70 to 153.70): E
Ion 76.00 (75.70 to 76.70): BF0



#48

Acenaphthylene

Concen: 18.988 ng

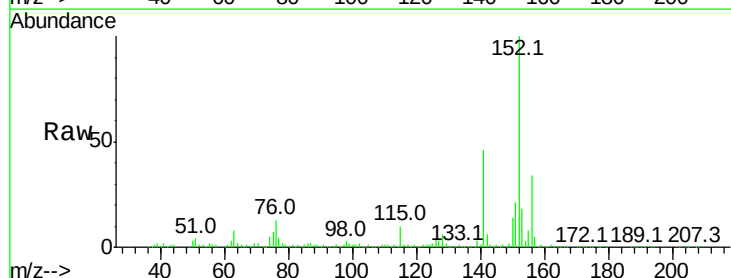
RT: 9.83 min Scan# 1316

Delta R.T. 0.00 min

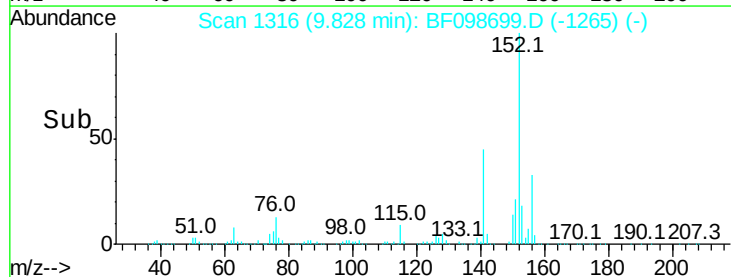
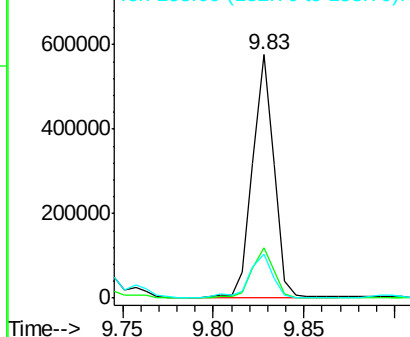
Lab File: BF098699.D

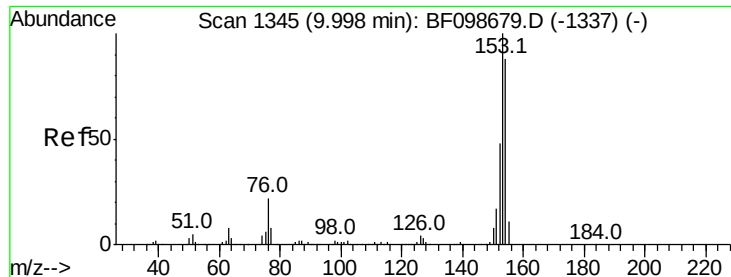
Acq: 22 Sep 2017 14:52

Tgt Ion:	152	Resp:	474723
Ion Ratio	Lower	Upper	
152	100		
151	20.7	16.3	24.5
153	17.9	10.7	16.1#



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





#51

Acenaphthene

Concen: 63.338 ng

RT: 10.00 min Scan# 1346

Delta R.T. 0.01 min

Lab File: BF098699.D

Acq: 22 Sep 2017 14:52

Instrument :

BNA_F

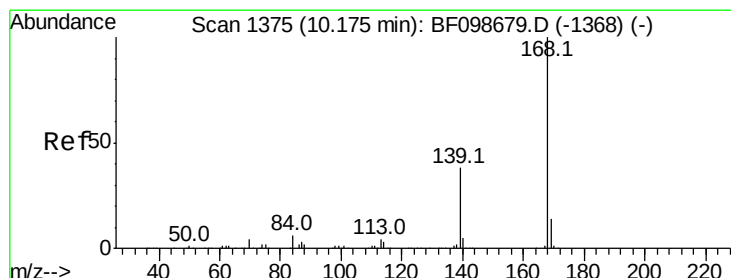
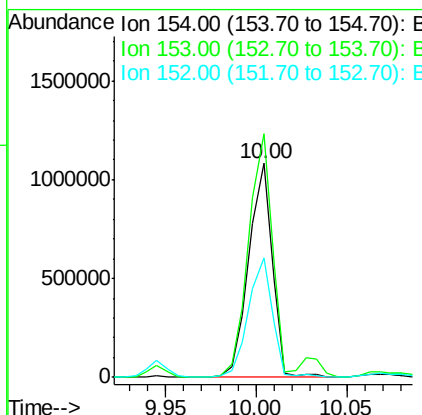
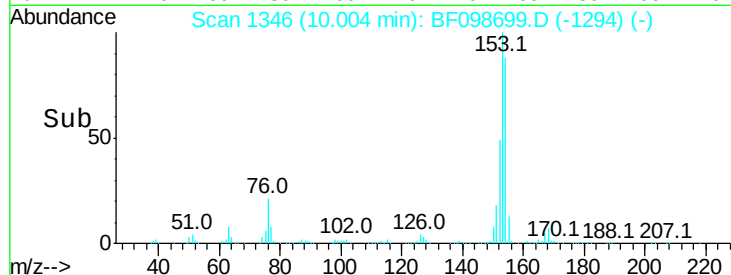
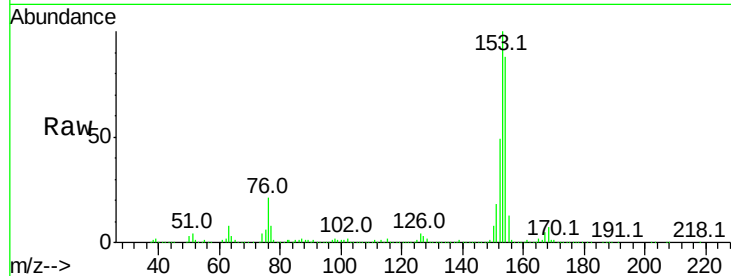
ClientSampleId :

NB-01-091917-B

Tot Ion:	154	Resp:	982911
Ion Ratio	Lower	Upper	
154	100		
153	113.8	91.2	136.8
152	55.9	43.8	65.8

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#54

Dibenzofuran

Concen: 60.480 ng

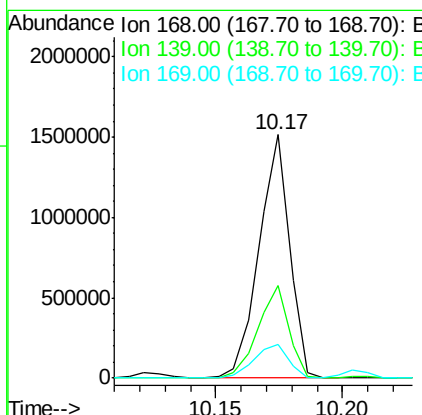
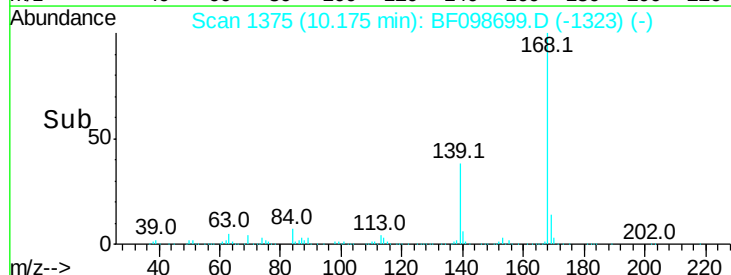
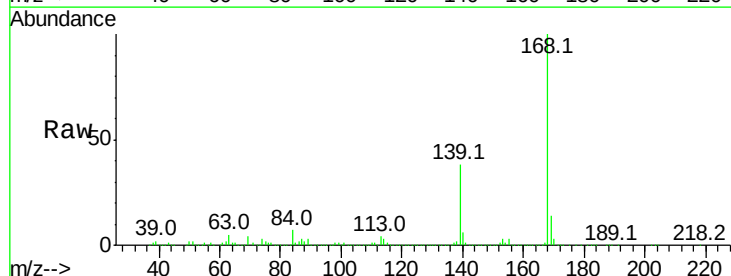
RT: 10.17 min Scan# 1375

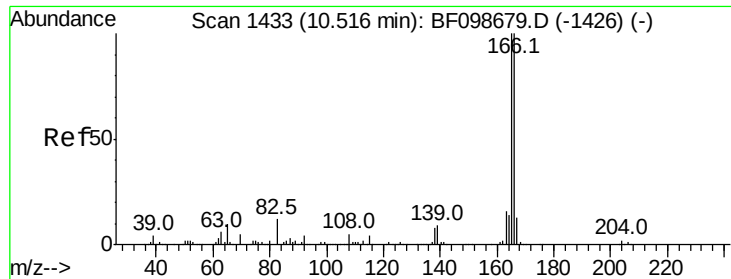
Delta R.T. 0.01 min

Lab File: BF098699.D

Acq: 22 Sep 2017 14:52

Tgt Ion:	168	Resp:	1281578
Ion Ratio	Lower	Upper	
168	100		
139	38.0	30.1	45.1
169	13.8	10.9	16.3





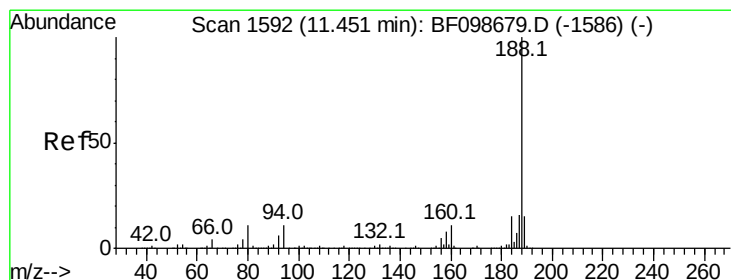
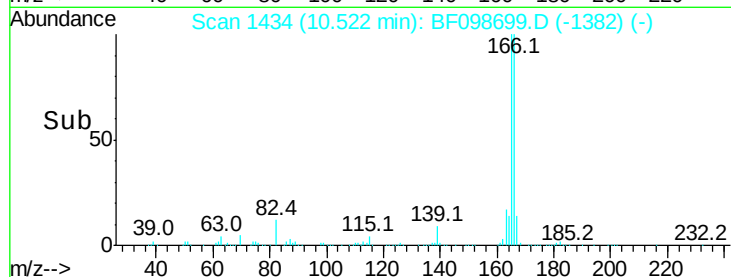
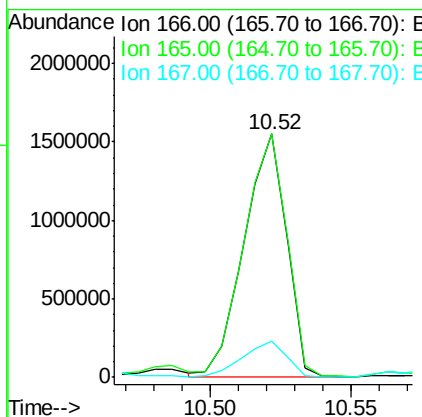
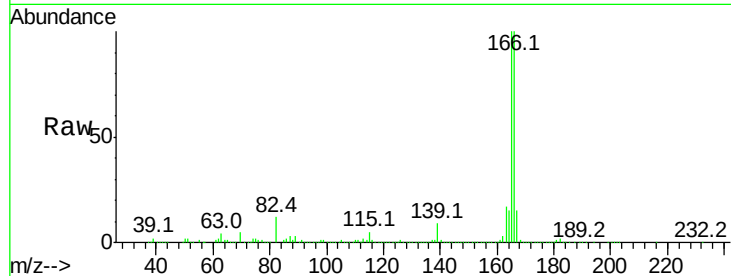
#57
Fluorene
 Concen: 94.656 ng
 RT: 10.52 min Scan# 1434
 Delta R.T. 0.01 min
 Lab File: BF098699.D
 Acq: 22 Sep 2017 14:52

Instrument :
 BNA_F
 ClientSampleId :
 NB-01-091917-B

Tot Ion	Ratio	Lower	Upper
166	100		
165	99.8	79.8	119.8
167	14.9	10.6	16.0

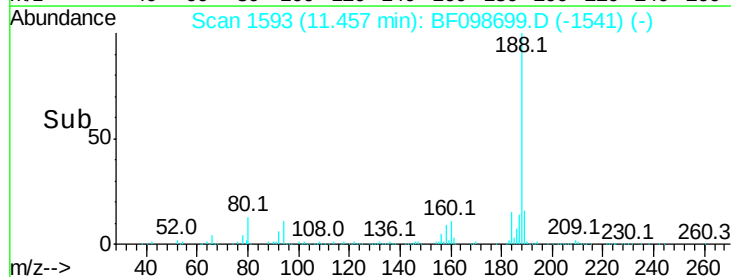
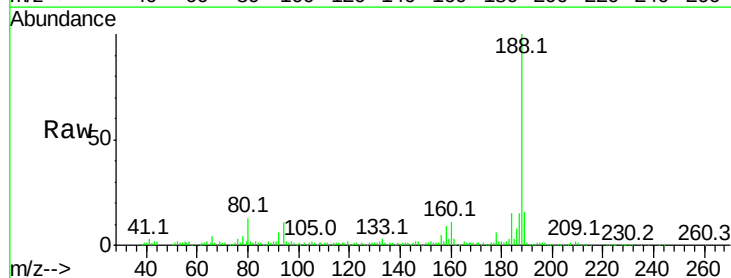
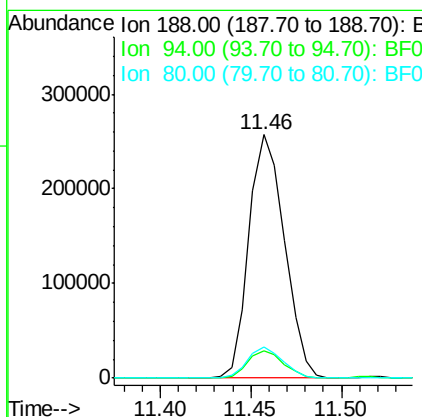
Manual Integrations
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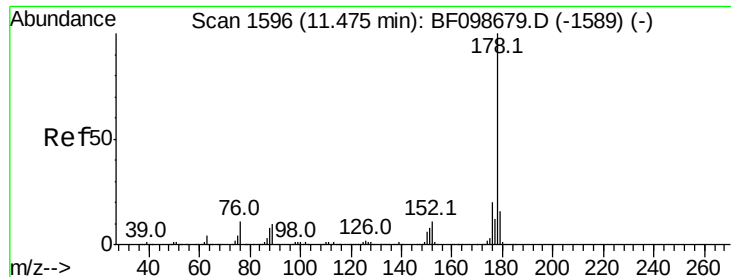
Sohil
 9/25/2017 6:21:09 PM



#63
Phenanthrene-d10
 Concen: 20.000 ng
 RT: 11.46 min Scan# 1593
 Delta R.T. 0.01 min
 Lab File: BF098699.D
 Acq: 22 Sep 2017 14:52

Tgt Ion	Ratio	Lower	Upper
188	100		
94	11.2	8.5	12.7
80	12.8	9.2	13.8





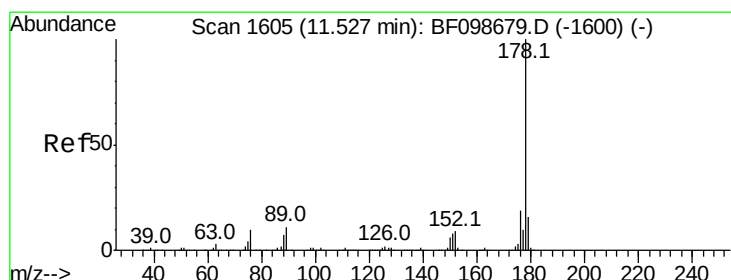
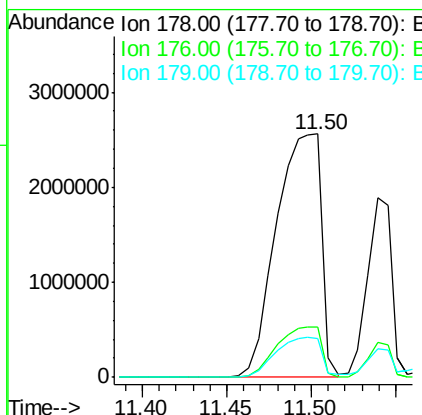
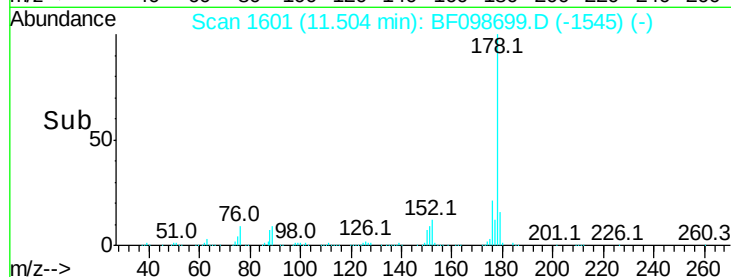
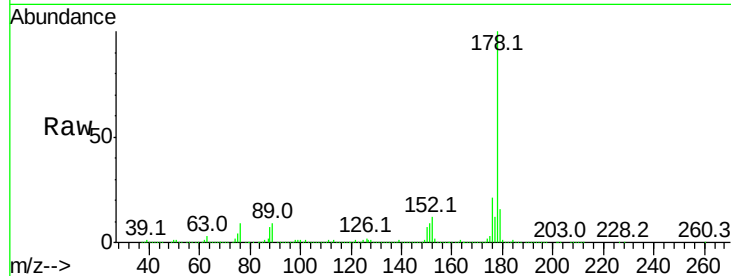
#70
Phenanthrene
Concen: 247.439 ng
RT: 11.50 min Scan# 1601
Delta R.T. 0.03 min
Lab File: BF098699.D
Acq: 22 Sep 2017 14:52

Instrument :
BNA_F
ClientSampleId :
NB-01-091917-B

Tot Ion:178 Resp: 4725949
Ion Ratio Lower Upper
178 100
176 20.8 15.8 23.8
179 16.2 13.0 19.6

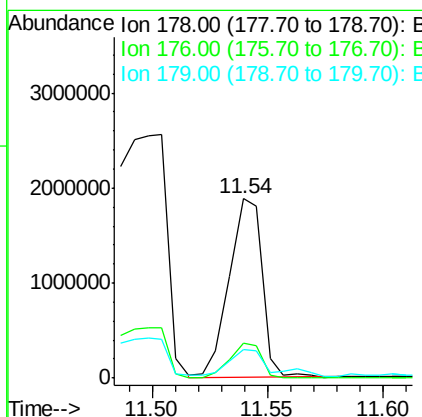
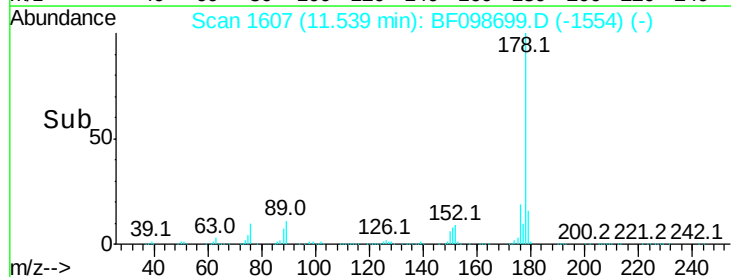
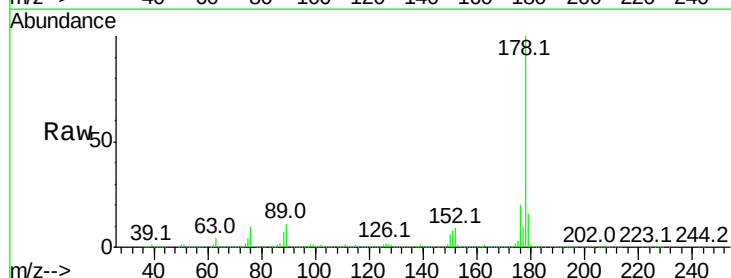
Manual Integrations
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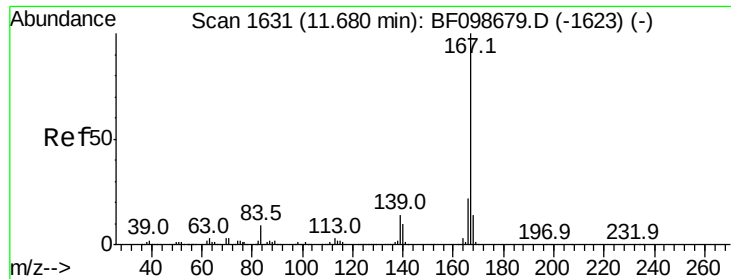
Sohil
9/25/2017 6:21:09 PM



#71
Anthracene
Concen: 96.218 ng
RT: 11.54 min Scan# 1607
Delta R.T. 0.01 min
Lab File: BF098699.D
Acq: 22 Sep 2017 14:52

Tgt Ion:178 Resp: 1873819
Ion Ratio Lower Upper
178 100
176 19.5 15.4 23.2
179 16.3 12.6 19.0





#72

Carbazole

Concen: 39.795 ng

RT: 11.68 min Scan# 1631

Delta R.T. 0.00 min

Lab File: BF098699.D

Acq: 22 Sep 2017 14:52

Instrument :

BNA_F

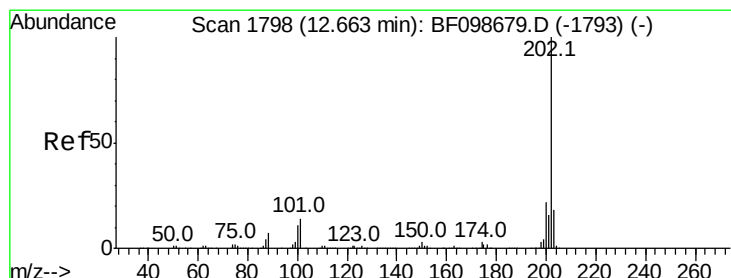
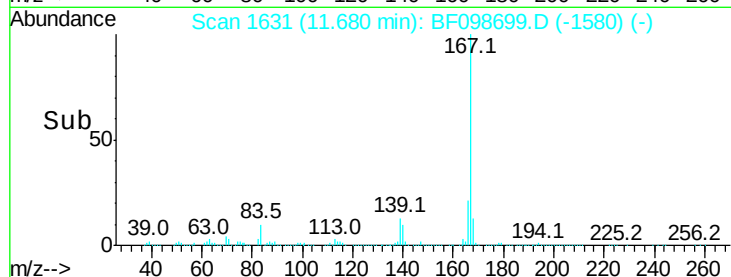
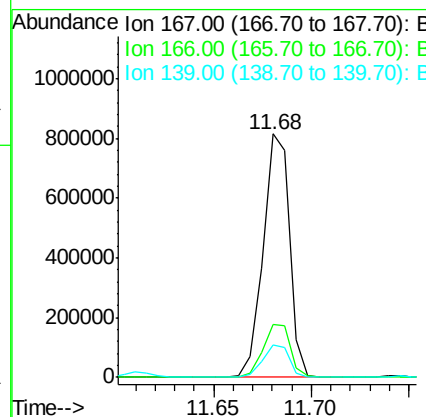
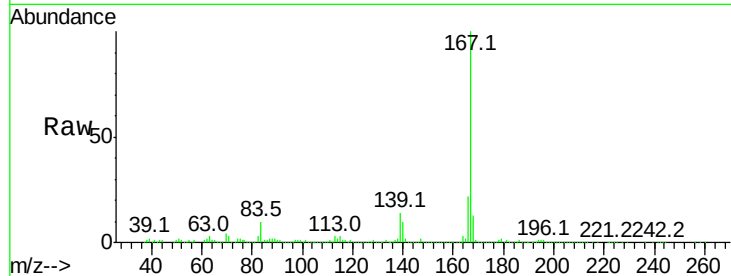
ClientSampleId :

NB-01-091917-B

Tot Ion:	167	Resp:	757277
Ion Ratio	Lower	Upper	
167	100		
166	21.6	17.6	26.4
139	13.6	10.9	16.3

Manual Integrations
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#74

Fluoranthene

Concen: 191.059 ng

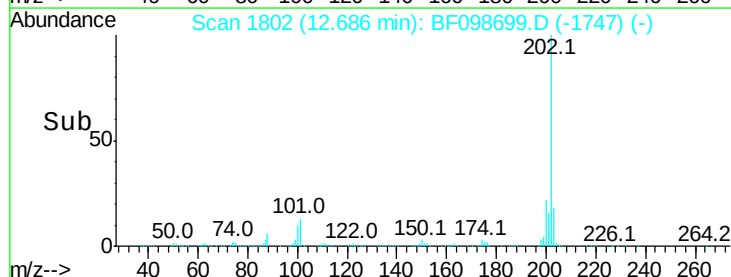
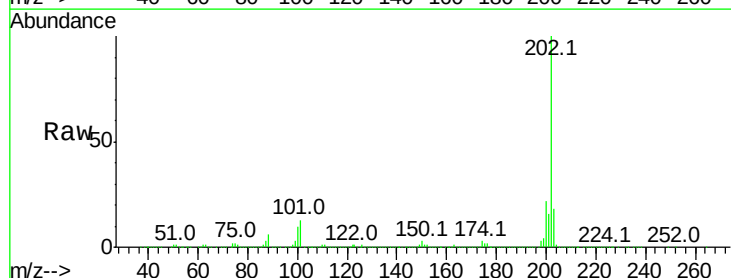
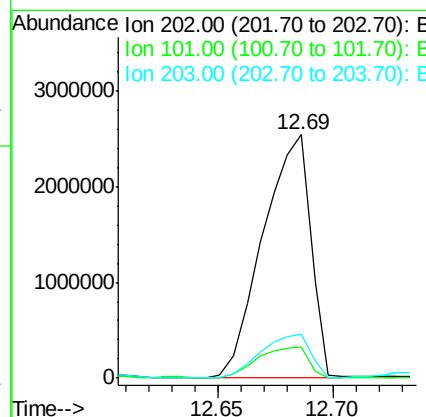
RT: 12.69 min Scan# 1802

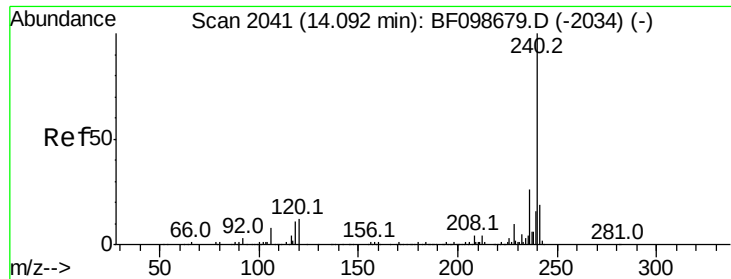
Delta R.T. 0.02 min

Lab File: BF098699.D

Acq: 22 Sep 2017 14:52

Tgt Ion:	202	Resp:	3636647
Ion Ratio	Lower	Upper	
202	100		
101	12.9	0.0	34.1
203	18.1	0.0	38.1





#75

Chrysene-d12

Concen: 20.000 ng

RT: 14.10 min Scan# 2043

Delta R.T. 0.02 min

Lab File: BF098699.D

Acq: 22 Sep 2017 14:52

Instrument :

BNA_F

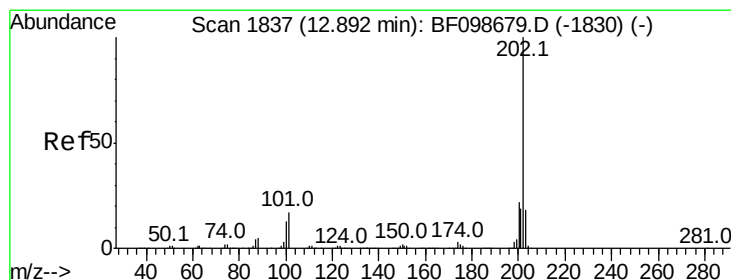
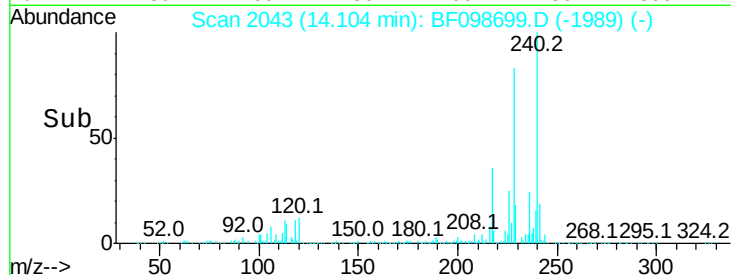
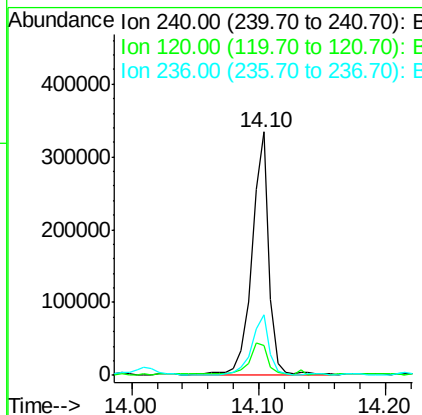
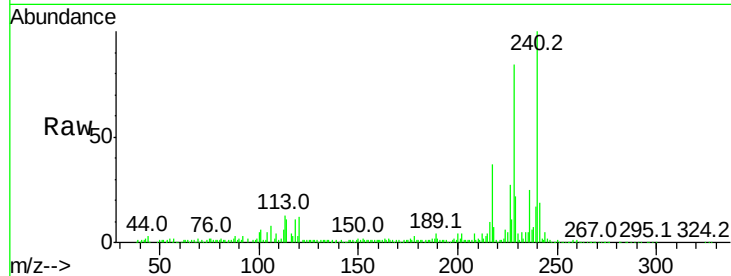
ClientSampleId :

NB-01-091917-B

Tot Ion:	240	Resp:	307060
Ion Ratio	Lower	Upper	
240	100		
120	12.4	9.5	14.3
236	25.0	20.7	31.1

Manual Integrations
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#77

Pyrene

Concen: 156.723 ng

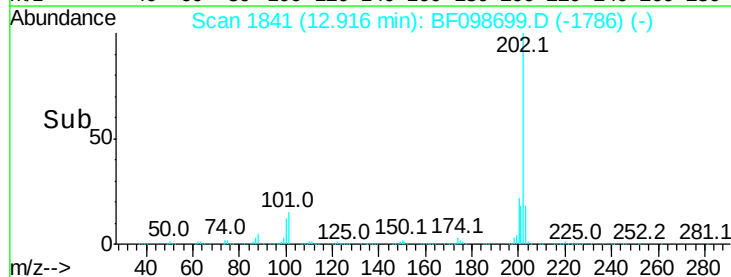
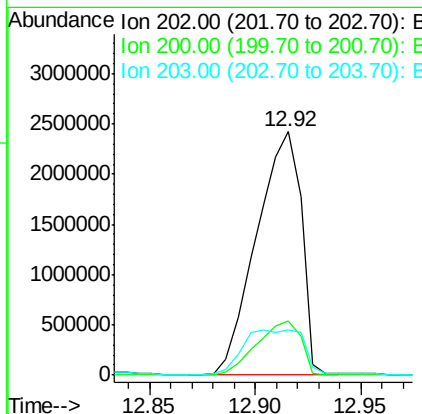
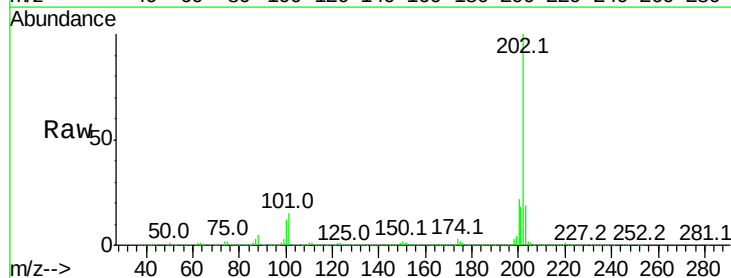
RT: 12.92 min Scan# 1841

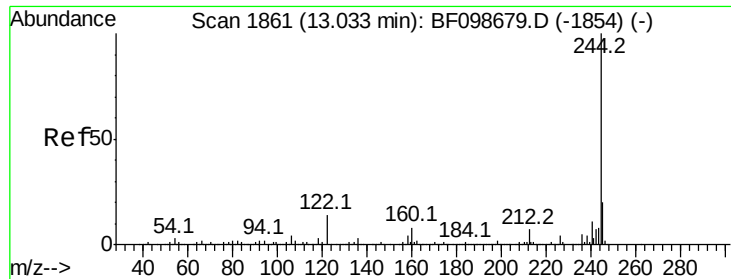
Delta R.T. 0.02 min

Lab File: BF098699.D

Acq: 22 Sep 2017 14:52

Tgt Ion:	202	Resp:	3572754
Ion Ratio	Lower	Upper	
202	100		
200	22.4	17.4	26.2
203	18.7	14.3	21.5





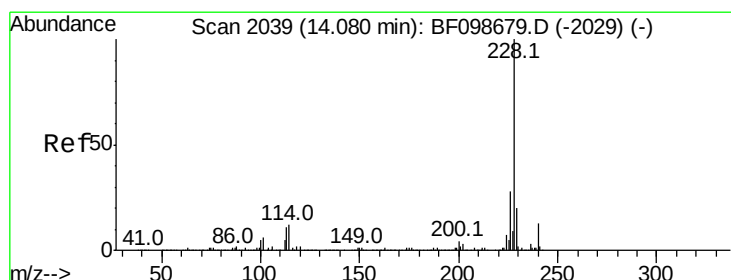
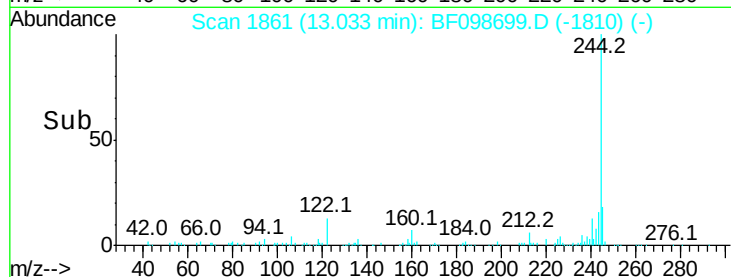
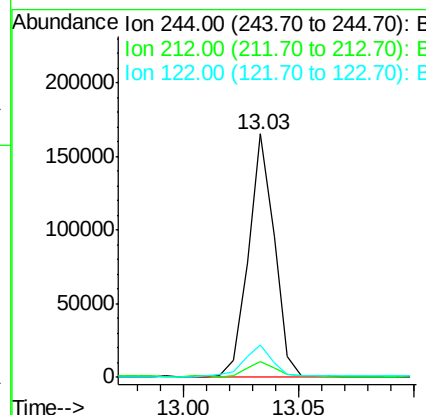
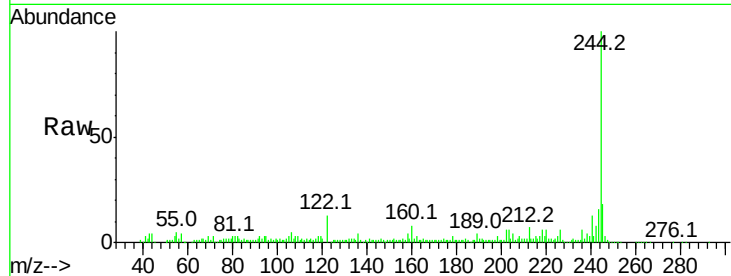
#78
 Terphenyl-d14
 Concen: 9.046 ng
 RT: 13.03 min Scan# 1861
 Delta R.T. 0.00 min
 Lab File: BF098699.D
 Acq: 22 Sep 2017 14:52

Instrument :
 BNA_F
 ClientSampleId :
 NB-01-091917-B

Tot Ion	Ratio	Lower	Upper
244	100		
212	6.5	5.4	8.0
122	13.3	11.0	16.4

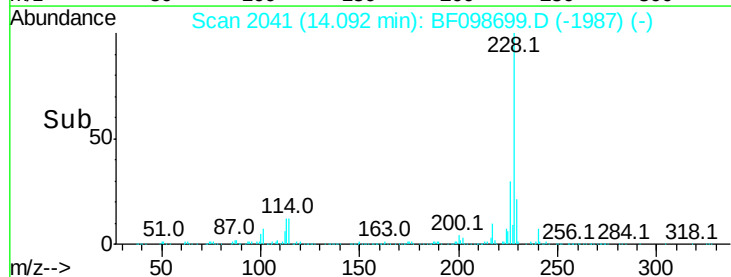
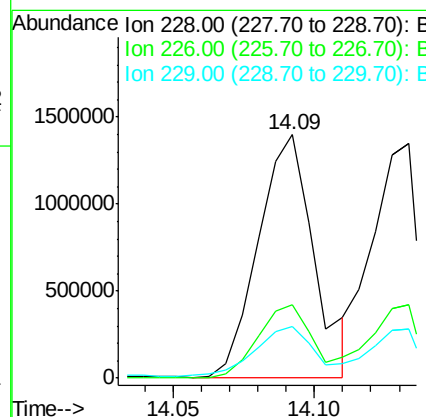
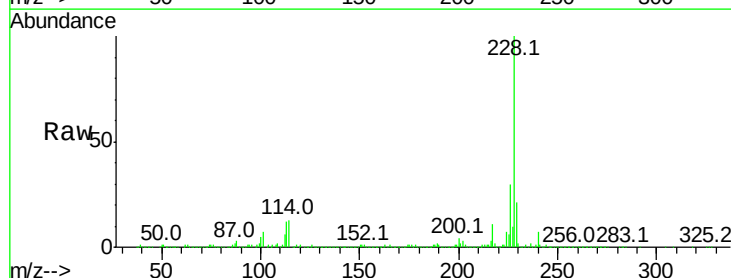
Manual Integrations
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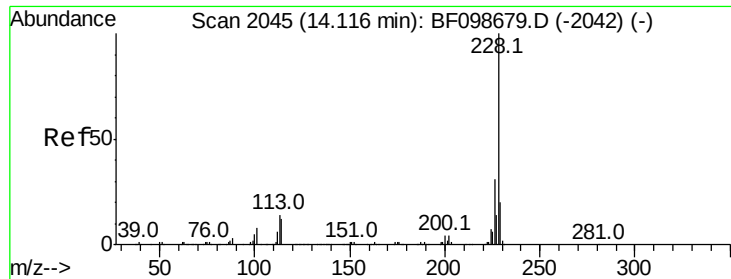
Sohil
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#80
 Benzo(a)anthracene
 Concen: 102.766 ng
 RT: 14.09 min Scan# 2041
 Delta R.T. 0.02 min
 Lab File: BF098699.D
 Acq: 22 Sep 2017 14:52

Tgt Ion	Ratio	Lower	Upper
228	100		
226	30.1	22.6	33.8
229	21.2	15.8	23.6





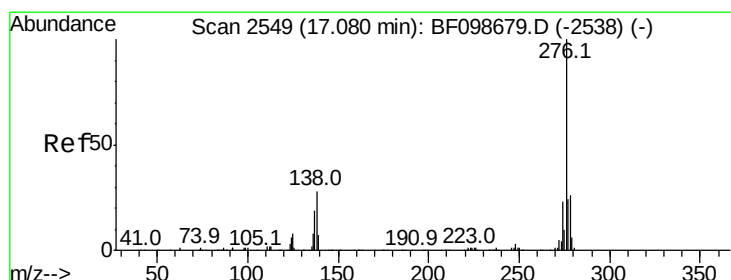
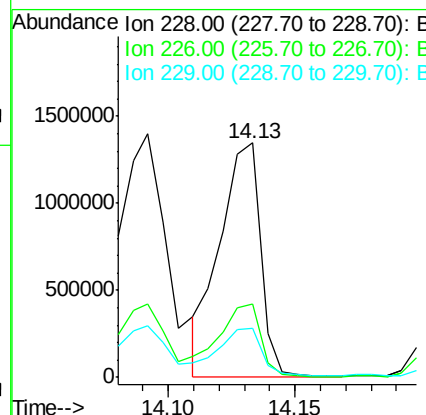
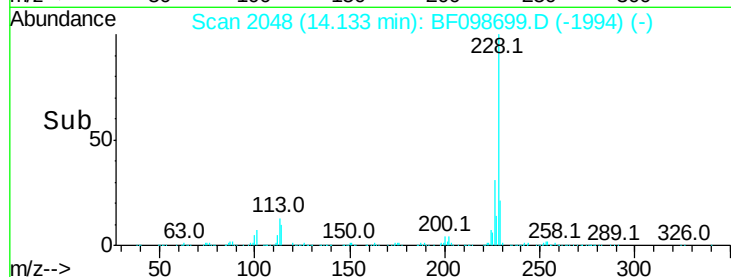
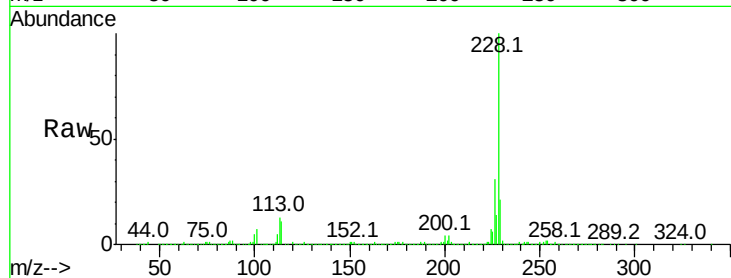
#82
Chrysene
Concen: 84.012 ng
RT: 14.13 min Scan# 2048
Delta R.T. 0.02 min
Lab File: BF098699.D
Acq: 22 Sep 2017 14:52

Instrument :
BNA_F
ClientSampleId :
NB-01-091917-B

Tot Ion:228 Resp: 1500583
Ion Ratio Lower Upper
228 100
226 31.5 25.0 37.6
229 21.0 16.2 24.4

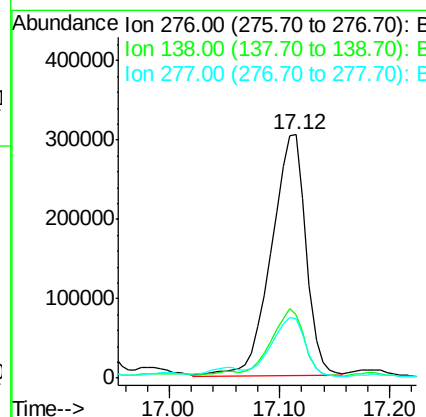
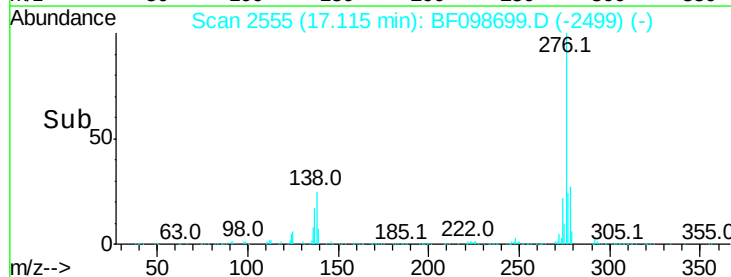
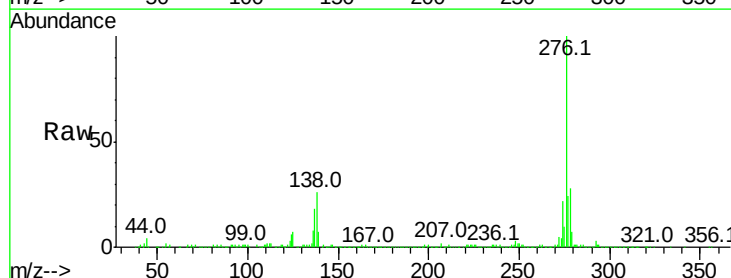
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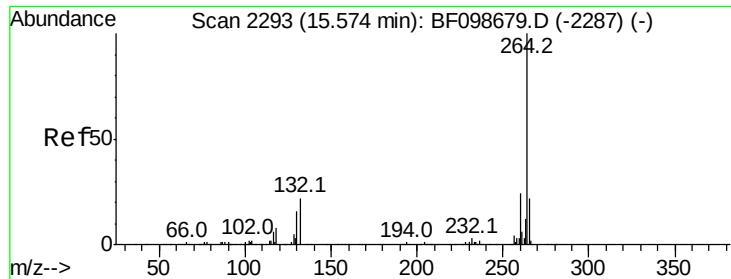
Sohil
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#85
Indeno(1,2,3-cd)pyrene
Concen: 48.151 ng
RT: 17.12 min Scan# 2555
Delta R.T. 0.03 min
Lab File: BF098699.D
Acq: 22 Sep 2017 14:52

Tgt Ion:276 Resp: 667170
Ion Ratio Lower Upper
276 100
138 26.3 25.0 37.6
277 23.6 20.1 30.1





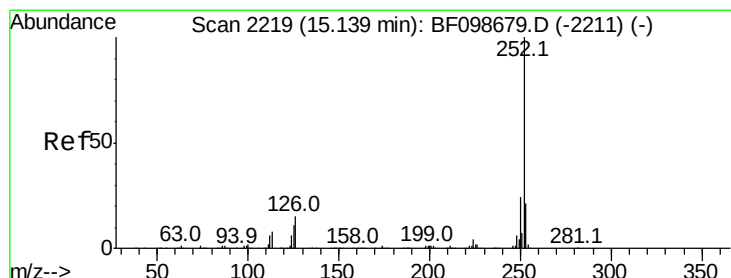
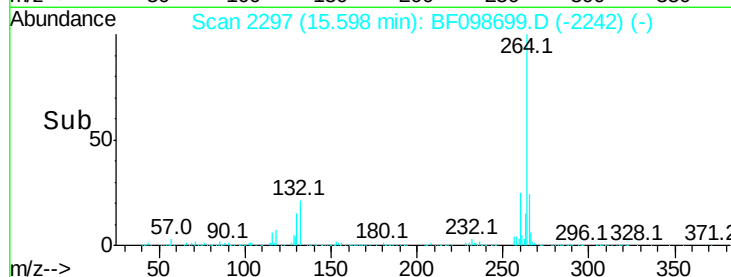
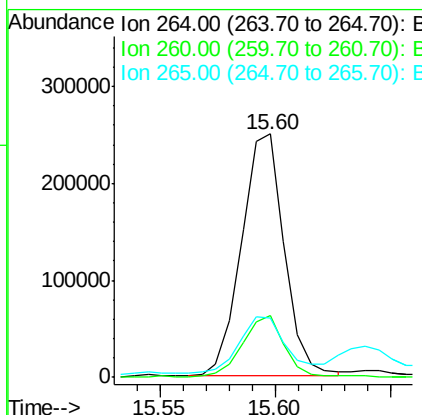
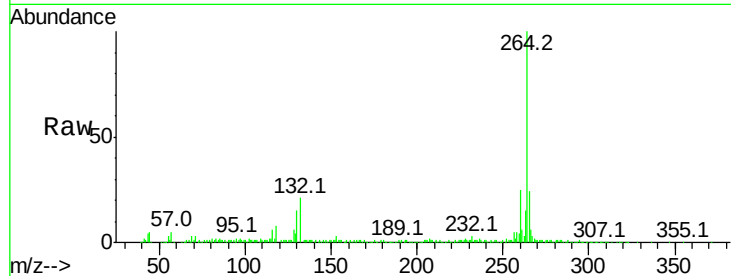
#86
Pervlene-d12
Concen: 20.000 ng
RT: 15.60 min Scan# 2297
Delta R.T. 0.02 min
Lab File: BF098699.D
Acq: 22 Sep 2017 14:52

Instrument :
BNA_F
ClientSampleId :
NB-01-091917-B

Tot Ion	Ratio	Lower	Upper
264	100		
260	25.3	19.2	28.8
265	24.2	17.5	26.3

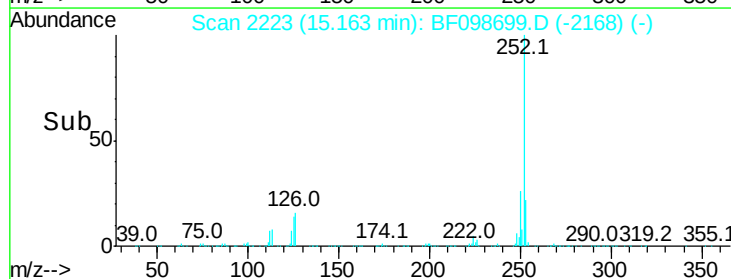
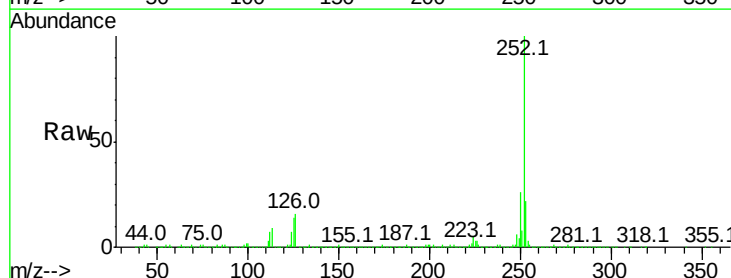
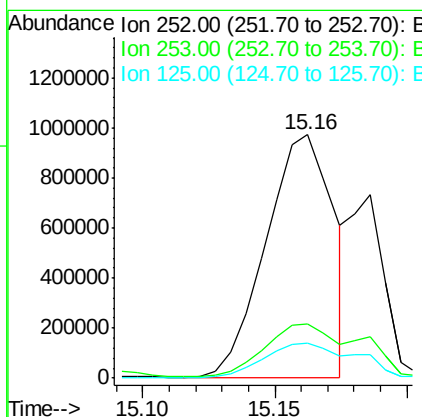
Manual Integrations
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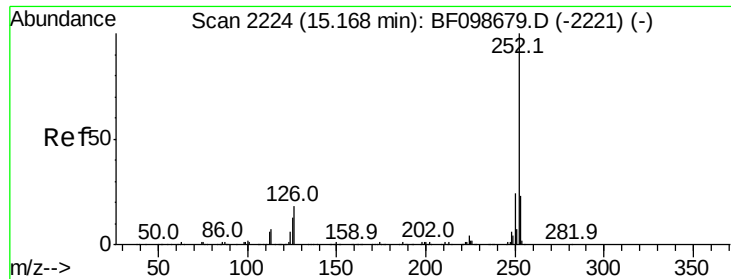
Sohil
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#87
Benzo(b)fluoranthene
Concen: 92.085 ng m
RT: 15.16 min Scan# 2223
Delta R.T. 0.02 min
Lab File: BF098699.D
Acq: 22 Sep 2017 14:52

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.4	17.0	25.6
125	14.4	9.0	13.6





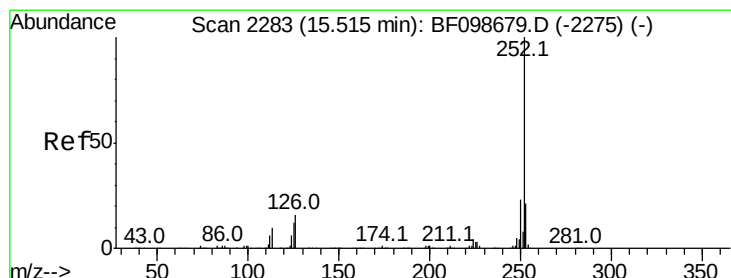
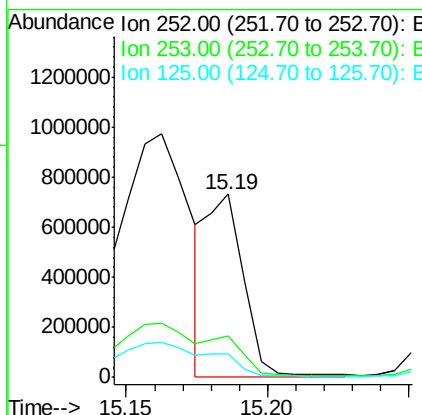
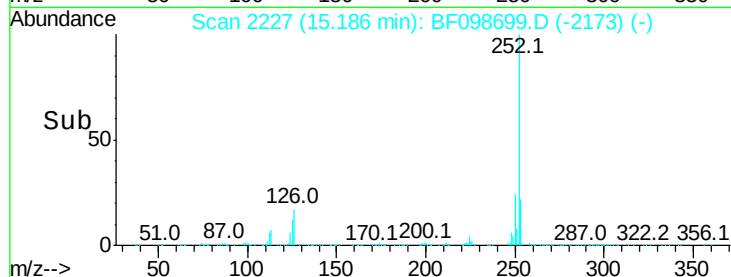
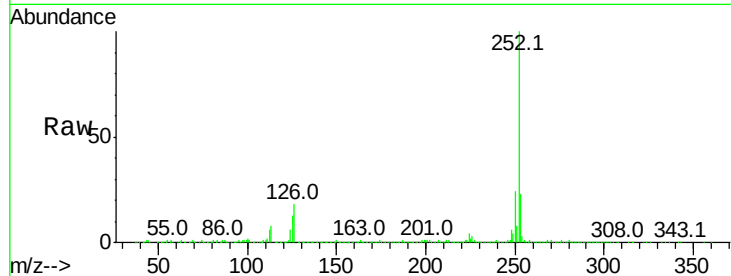
#88
Benzo(k)fluoranthene
Concen: 35.612 ng m
RT: 15.19 min Scan# 2227
Delta R.T. 0.02 min
Lab File: BF098699.D
Acq: 22 Sep 2017 14:52

Instrument :
BNA_F
ClientSampleId :
NB-01-091917-B

Tot Ion	Ratio	Lower	Upper
252	100		
253	22.8	17.9	26.9
125	12.7	10.2	15.2

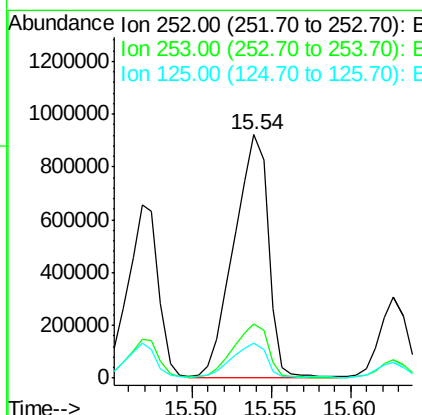
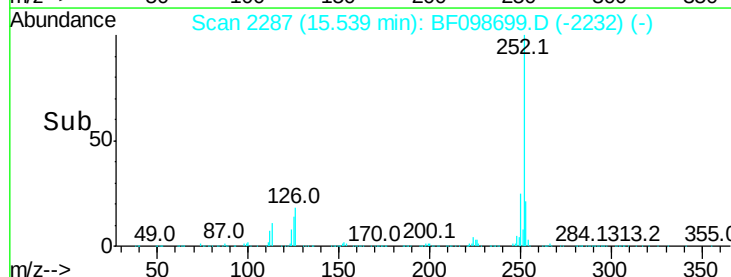
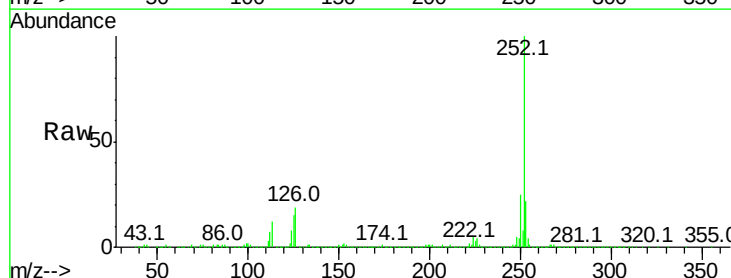
Manual Integrations
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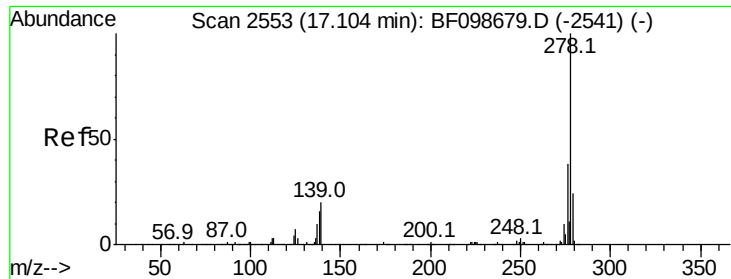
Sohil
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#89
Benzo(a)pyrene
Concen: 80.772 ng
RT: 15.54 min Scan# 2287
Delta R.T. 0.02 min
Lab File: BF098699.D
Acq: 22 Sep 2017 14:52

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.1	17.1	25.7
125	14.6	9.8	14.6





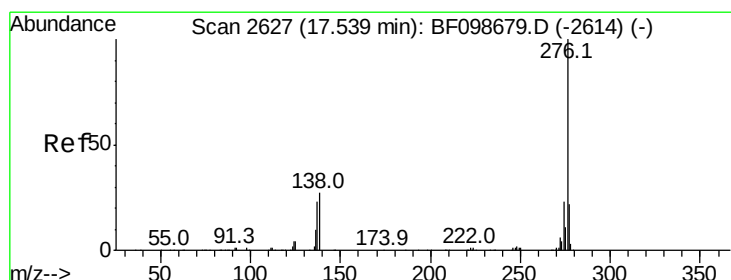
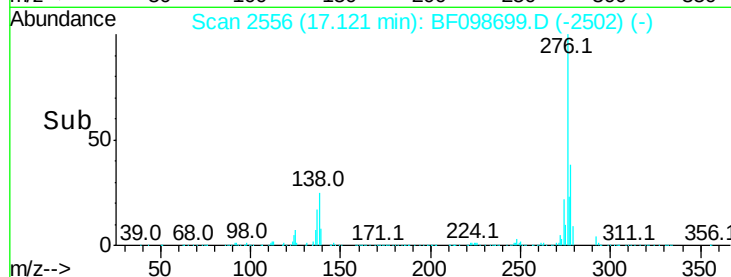
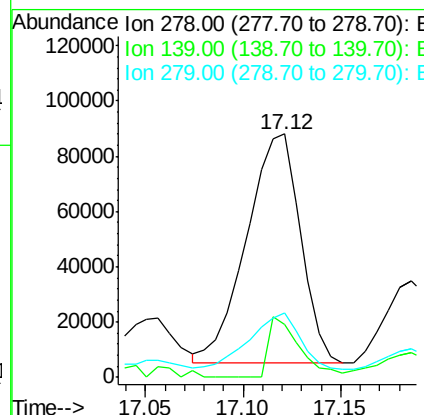
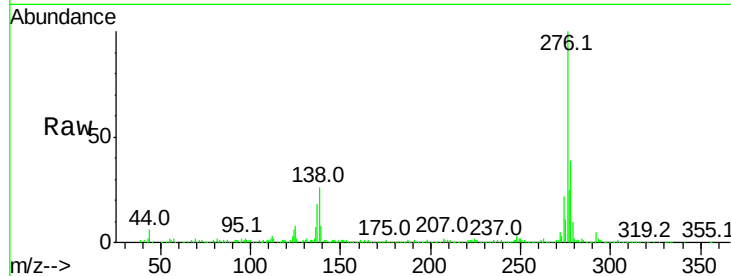
#90
Dibenzo(a,h)anthracene
Concen: 11.011 ng
RT: 17.12 min Scan# 2556
Delta R.T. 0.02 min
Lab File: BF098699.D
Acq: 22 Sep 2017 14:52

Instrument :
BNA_F
ClientSampleId :
NB-01-091917-B

Tot Ion:	278	Resp:	158778
Ion Ratio	Lower	Upper	
278	100		
139	21.6	15.9	23.9
279	26.5	19.0	28.4

Manual Integrations
APPROVED

Sohil
9/25/2017 6:21:09 PM



#91
Benzo(g,h,i)perylene
Concen: 42.856 ng
RT: 17.57 min Scan# 2633
Delta R.T. 0.03 min
Lab File: BF098699.D
Acq: 22 Sep 2017 14:52

Tgt Ion:	276	Resp:	621201
Ion Ratio	Lower	Upper	
276	100		
277	24.8	17.9	26.9
138	28.4	21.8	32.8

