

Data Path : Z:\HPCHEM1\BNA F\DATA\BF022717\
 Data File : BF093223.D
 Acq On : 27 Feb 2017 23:51
 Operator : SJ/MA
 Sample : I1997-12
 Misc :
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 E2-B1E-SSW-1

Manual Integrations
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 2/28/2017 2:35:19 PM

Quant Time: Feb 28 01:22:13 2017
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF013017.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Feb 28 00:51:02 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.82	152	174952	20.00	ng	0.00
21) Naphthalene-d8	8.10	136	653795	20.00	ng	-0.01
38) Acenaphthene-d10	9.86	164	304439	20.00	ng	0.00
63) Phenanthrene-d10	11.34	188	505483	20.00	ng	0.00
75) Chrysene-d12	13.99	240	357066	20.00	ng	0.00
86) Perylene-d12	15.41	264	332730	20.00	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.42	112	1132542	111.06	ng	0.01
7) Phenol-d6	6.48	99	1581497	120.53	ng	0.00
23) Nitrobenzene-d5	7.39	82	993194	84.60	ng	0.00
41) 2,4,6-Tribromophenol	10.65	330	226946	103.07	ng	-0.01
44) 2-Fluorobiphenyl	9.18	172	1360640	80.97	ng	0.00
78) Terphenyl-d14	12.93	244	945972	62.25	ng	0.00
Target Compounds						Qvalue
31) Naphthalene	8.12	128	101492	3.06	ng	98
48) Acenaphthylene	9.72	152	67584	2.27	ng	98
49) Dimethylphthalate	9.57	163	480991	23.46	ng	99
51) Acenaphthene	9.88	154	69250	3.89	ng	94
54) Dibenzofuran	10.06	168	58622	2.46	ng	# 89
57) Fluorene	10.41	166	90498m	4.94	ng	
70) Phenanthrene	11.37	178	1049086	36.23	ng	99
71) Anthracene	11.41	178	324138	11.15	ng	98
72) Carbazole	11.57	167	76961	2.77	ng	100
74) Fluoranthene	12.56	202	1285885	43.05	ng	98
77) Pyrene	12.78	202	1298732	48.60	ng	100
80) Benzo(a)anthracene	13.97	228	635891	29.12	ng	98
82) Chrysene	14.01	228	419805	20.53	ng	98
85) Indeno(1,2,3-cd)pyrene	16.81	276	278265	17.57	ng	95
87) Benzo(b)fluoranthene	15.00	252	554933m	25.34	ng	
88) Benzo(k)fluoranthene	15.01	252	265484m	14.04	ng	
89) Benzo(a)pyrene	15.36	252	482747	25.48	ng	99
90) Dibenzo(a,h)anthracene	16.81	278	76561m	5.00	ng	
91) Benzo(a,h,i)perylene	17.23	276	258846	16.74	ng	# 89

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



#1

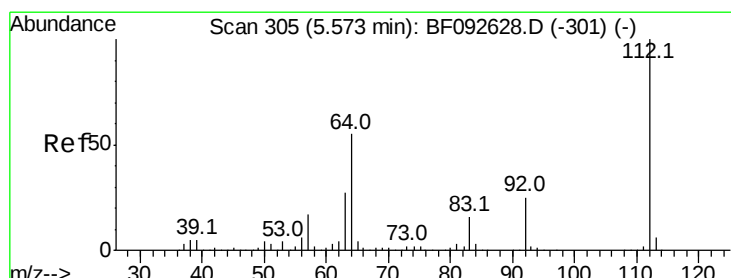
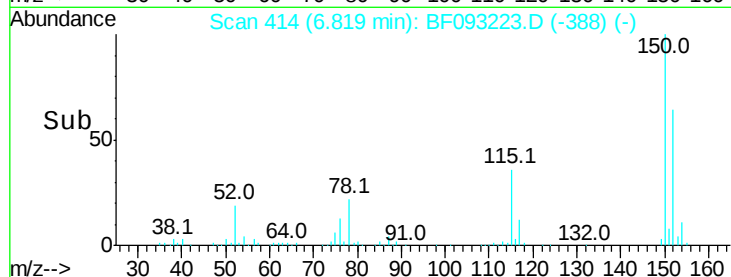
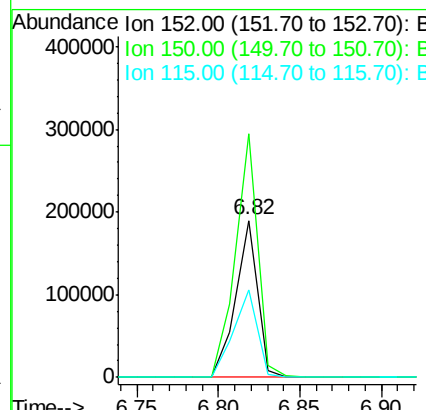
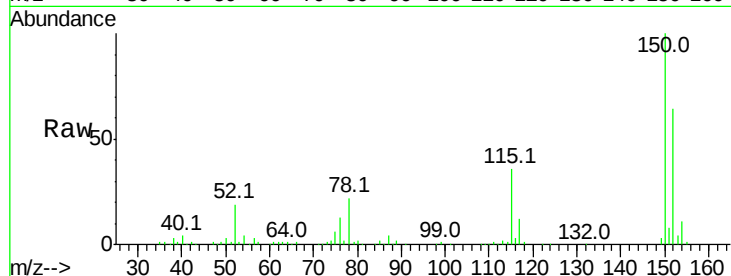
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 6.82 min Scan# 414
Delta R.T. -0.00 min
Lab File: BF093223.D
Acq: 27 Feb 2017 23:51

Instrument :
BNA_F
ClientSampleId :
E2-B1E-SSW-1

Tot Ion	Ratio	Lower	Upper
152	100		
150	155.2	124.9	187.3
115	55.7	46.0	69.0

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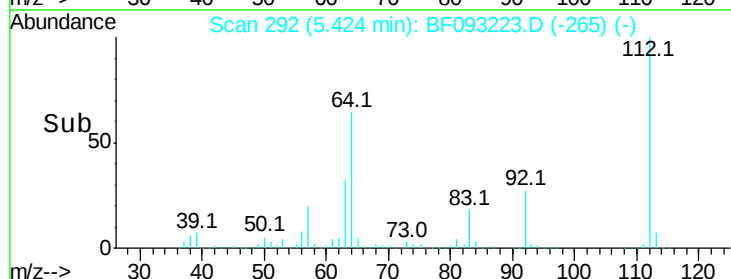
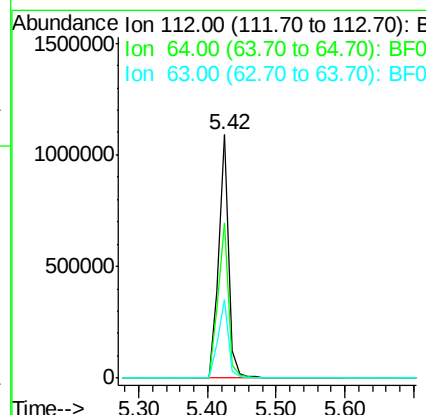
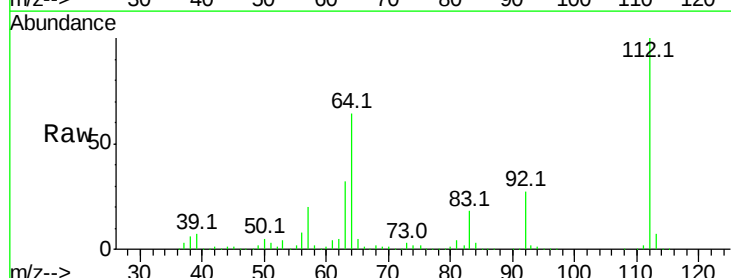
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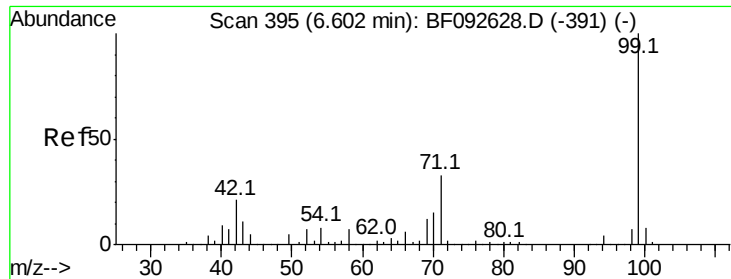


#5

2-Fluorophenol
Concen: 111.06 ng
RT: 5.42 min Scan# 292
Delta R.T. 0.01 min
Lab File: BF093223.D
Acq: 27 Feb 2017 23:51

Tgt Ion	Ratio	Lower	Upper
112	100		
64	64.0	46.1	69.1
63	32.3	23.8	35.6





#7

Phenol-d6

Concen: 120.53 ng

RT: 6.48 min Scan# 384

Delta R.T. -0.00 min

Lab File: BF093223.D

Acq: 27 Feb 2017 23:51

Instrument :

BNA_F

ClientSampleId :

E2-B1E-SSW-1

Tot Ion: 99 Resp: 1581497

Ion Ratio Lower Upper

99 100

42 15.7 15.6 23.4

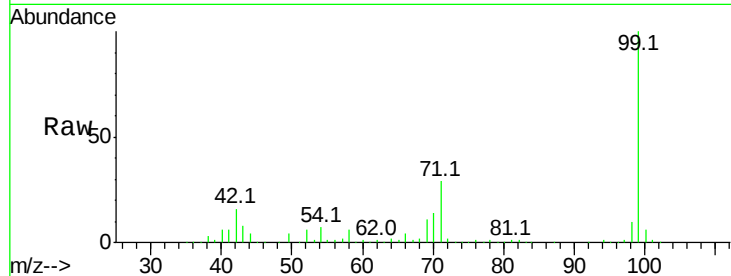
71 28.6 27.5 41.3

Manual Integrations

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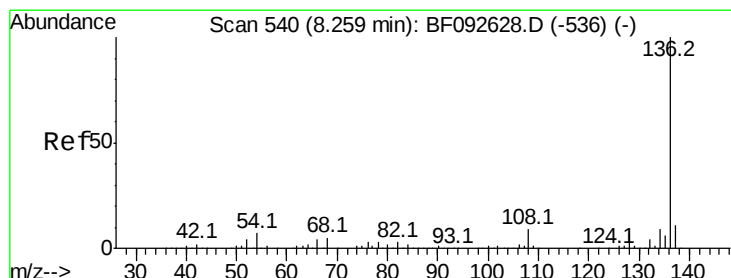
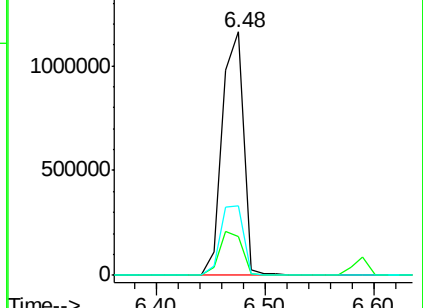
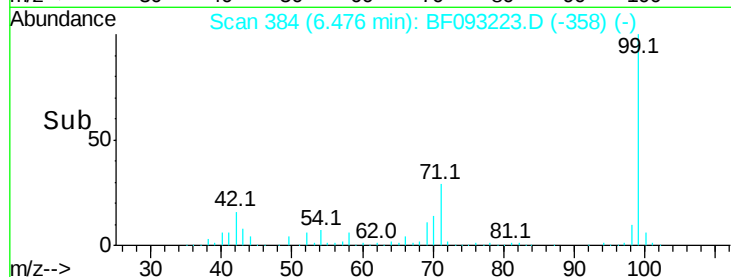
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Abundance Ion 99.00 (98.70 to 99.70): BF0

Ion 42.00 (41.70 to 42.70): BF0

Ion 71.00 (70.70 to 71.70): BF0



#21

Naphthalene-d8

Concen: 20.00 ng

RT: 8.10 min Scan# 526

Delta R.T. -0.01 min

Lab File: BF093223.D

Acq: 27 Feb 2017 23:51

Tgt Ion:136 Resp: 653795

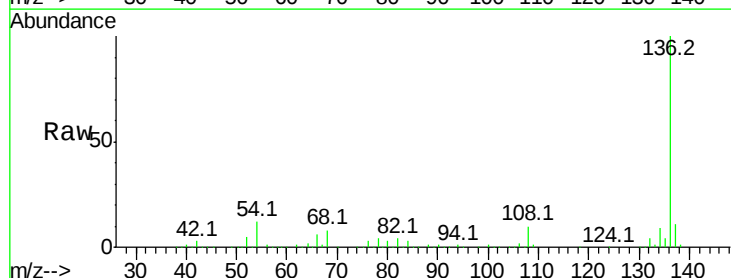
Ion Ratio Lower Upper

136 100

137 11.4 8.4 12.6

54 11.8 4.5 6.7#

68 8.3 3.6 5.4#

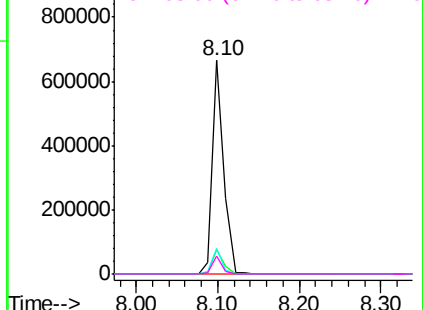
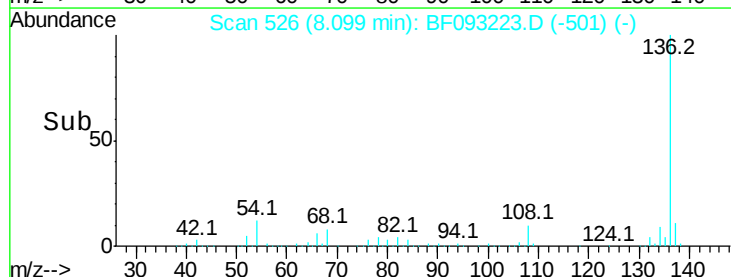


Abundance Ion 136.00 (135.70 to 136.70): E

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





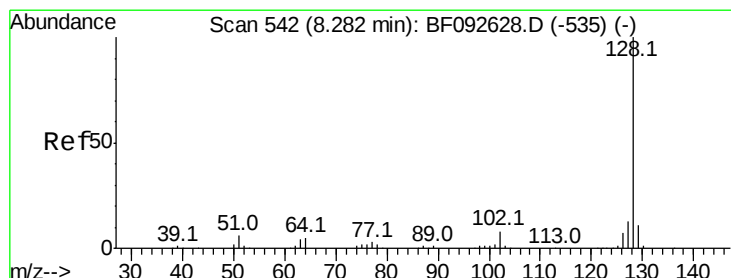
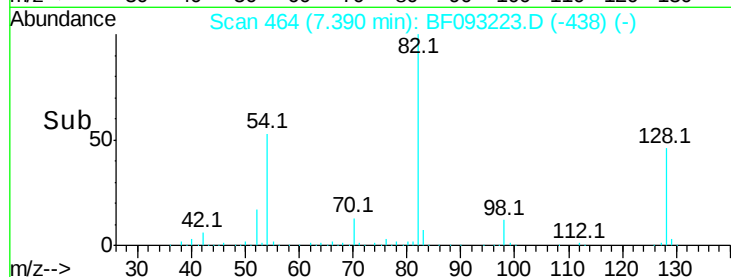
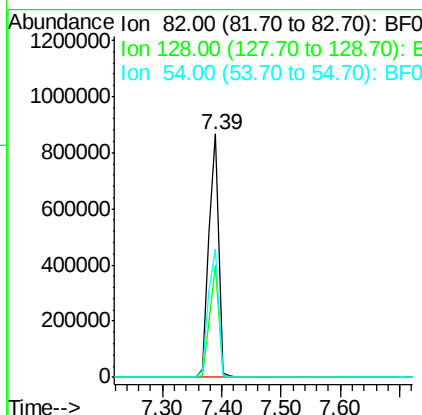
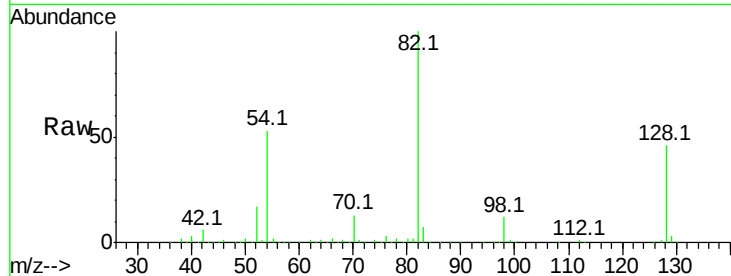
#23
 Nitrobenzene-d5
 Concen: 84.60 ng
 RT: 7.39 min Scan# 464
 Delta R.T. -0.00 min
 Lab File: BF093223.D
 Acq: 27 Feb 2017 23:51

Instrument :
 BNA_F
 ClientSampleId :
 E2-B1E-SSW-1

Tot Ion	Ratio	Lower	Upper
82	100		
128	45.7	34.6	52.0
54	52.9	39.5	59.3

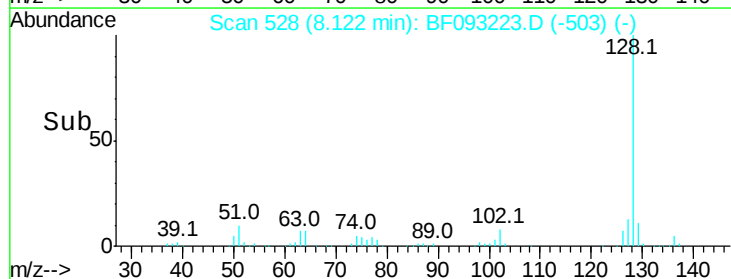
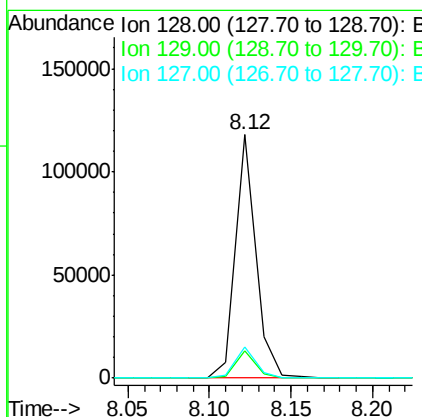
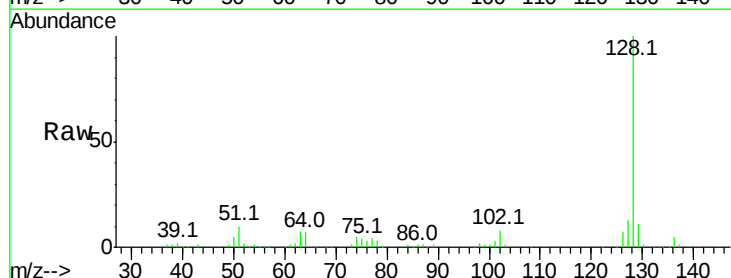
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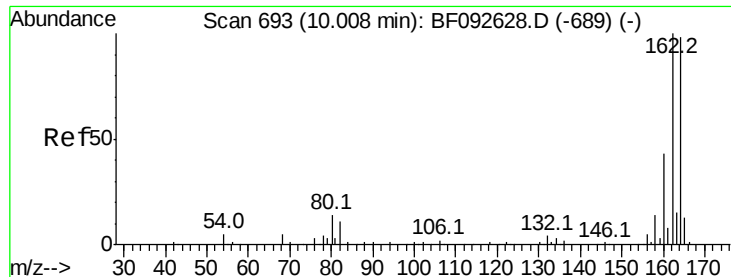
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#31
 Naphthalene
 Concen: 3.06 ng
 RT: 8.12 min Scan# 528
 Delta R.T. -0.01 min
 Lab File: BF093223.D
 Acq: 27 Feb 2017 23:51

Tgt Ion	Ratio	Lower	Upper
128	100		
129	11.0	9.5	14.3
127	12.8	10.8	16.2





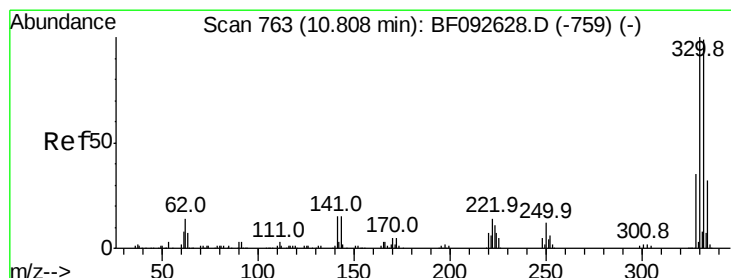
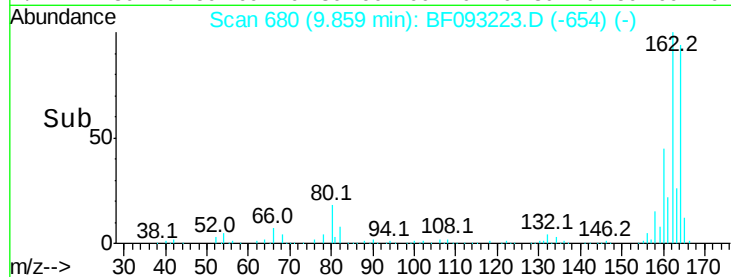
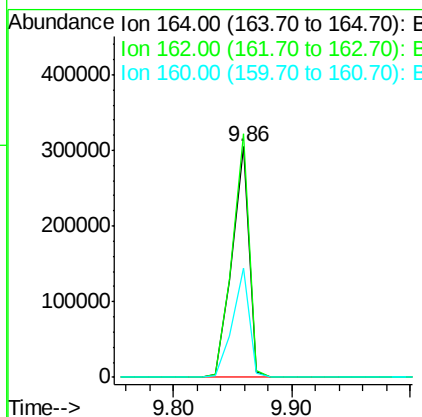
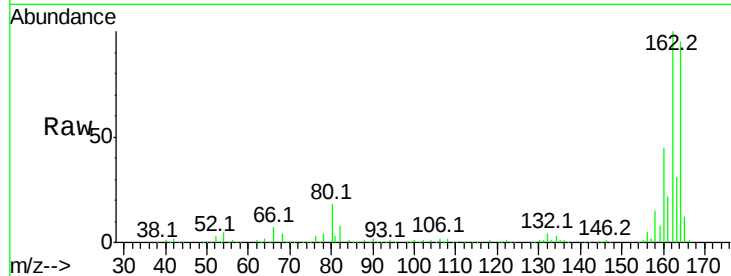
#38
 Acenaphthene-d10
 Concen: 20.00 ng
 RT: 9.86 min Scan# 680
 Delta R.T. -0.00 min
 Lab File: BF093223.D
 Acq: 27 Feb 2017 23:51

Instrument :
 BNA_F
 ClientSampleId :
 E2-B1E-SSW-1

Tot Ion	Ratio	Lower	Upper
164	100		
162	105.6	80.2	120.2
160	47.5	36.9	55.3

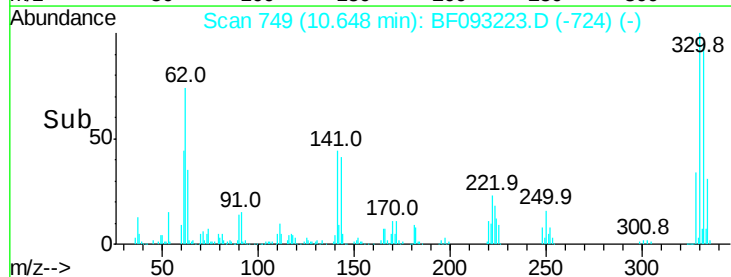
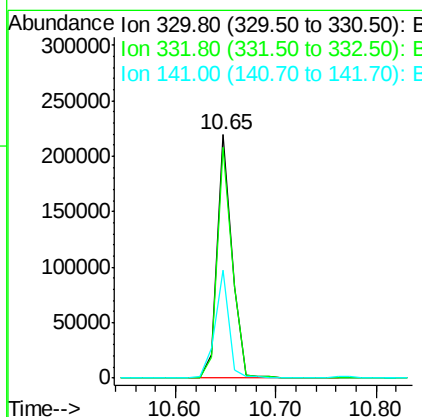
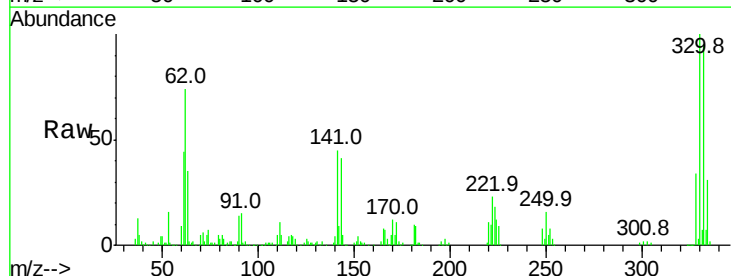
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#41
 2,4,6-Tribromophenol
 Concen: 103.07 ng
 RT: 10.65 min Scan# 749
 Delta R.T. -0.01 min
 Lab File: BF093223.D
 Acq: 27 Feb 2017 23:51

Tgt Ion	Ratio	Lower	Upper
330	100		
332	95.7	77.4	116.2
141	40.9	34.1	51.1





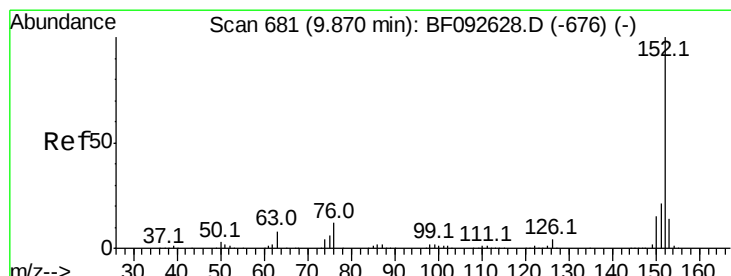
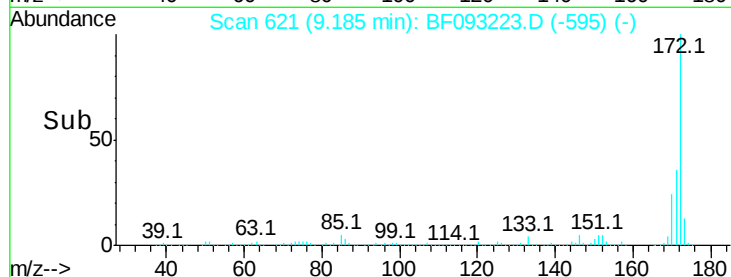
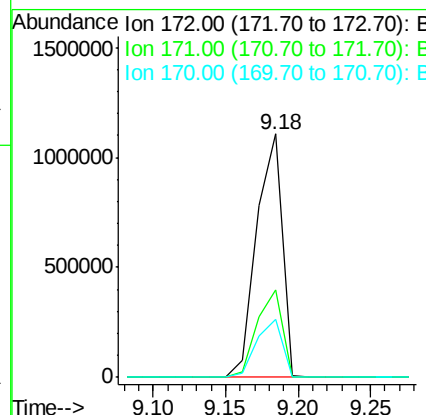
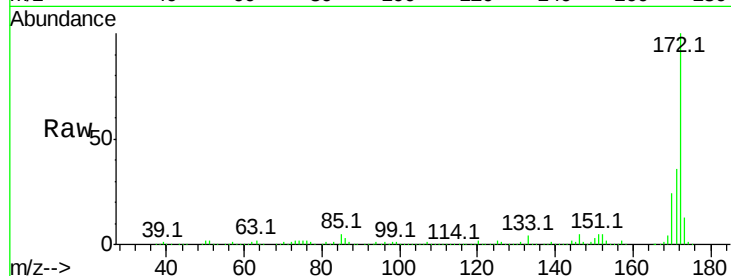
#44
2-Fluorobiphenyl
Concen: 80.97 ng
RT: 9.18 min Scan# 621
Delta R.T. -0.00 min
Lab File: BF093223.D
Acq: 27 Feb 2017 23:51

Instrument :
BNA_F
ClientSampleId :
E2-B1E-SSW-1

Tot Ion	Ratio	Lower	Upper
172	100		
171	35.9	29.4	44.0
170	24.1	20.2	30.4

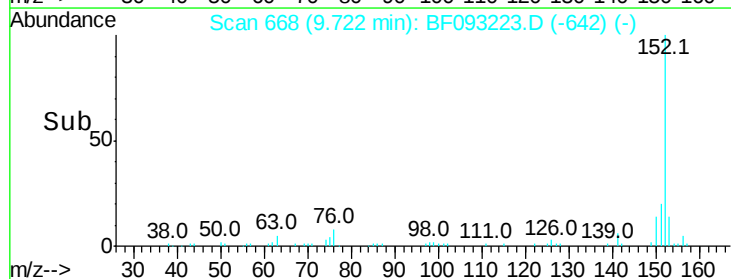
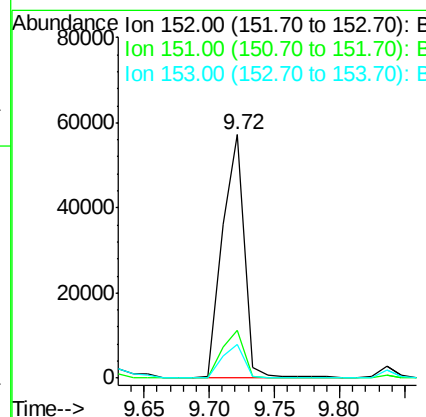
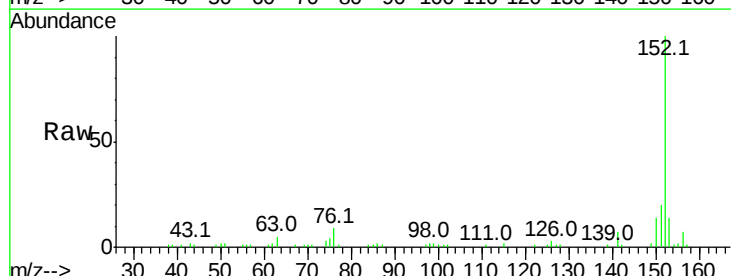
Manual Integrations
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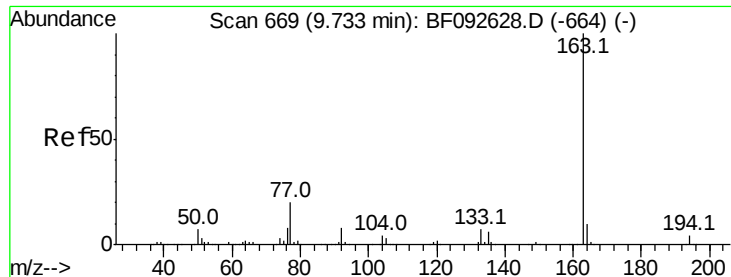
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#48
Acenaphthylene
Concen: 2.27 ng
RT: 9.72 min Scan# 668
Delta R.T. -0.00 min
Lab File: BF093223.D
Acq: 27 Feb 2017 23:51

Tgt Ion	Ratio	Lower	Upper
152	100		
151	19.6	16.9	25.3
153	13.7	11.4	17.2





#49

Dimethylphthalate

Concen: 23.46 ng

RT: 9.57 min Scan# 655

Delta R.T. -0.02 min

Lab File: BF093223.D

Acq: 27 Feb 2017 23:51

Instrument :

BNA_F

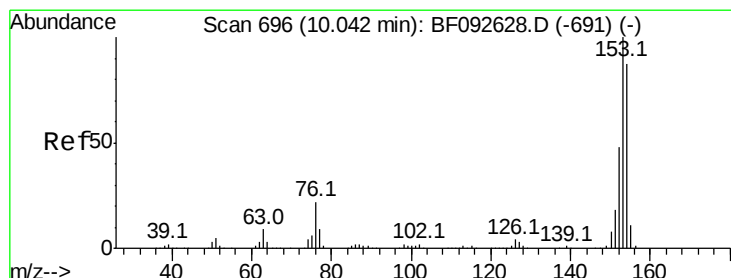
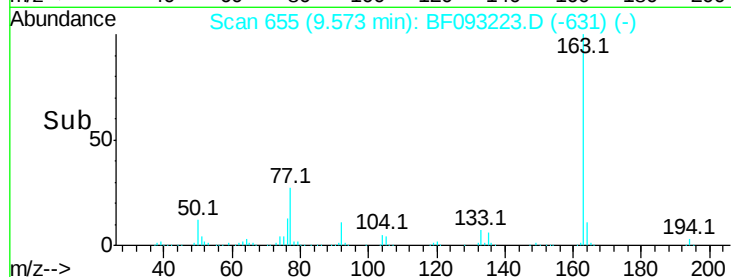
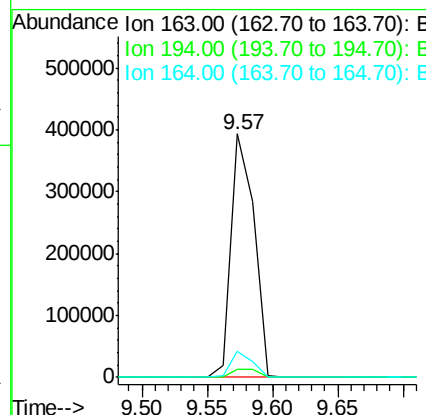
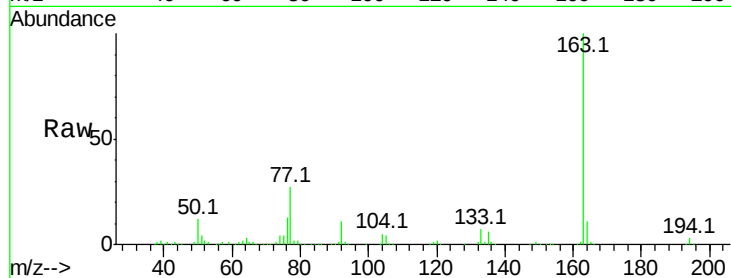
ClientSampled :

E2-B1E-SSW-1

Tot Ion:	163	Resp:	480991
Ion Ratio	Lower	Upper	
163	100		
194	3.4	3.0	4.4
164	10.6	8.0	12.0

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#51

Acenaphthene

Concen: 3.89 ng

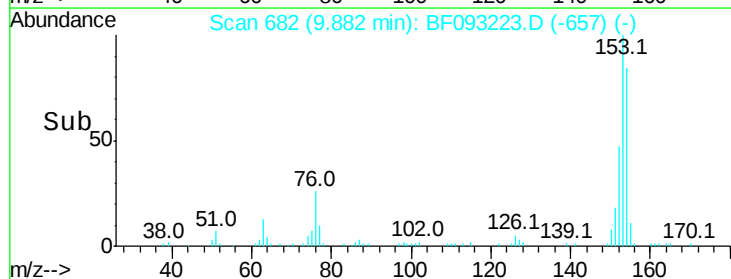
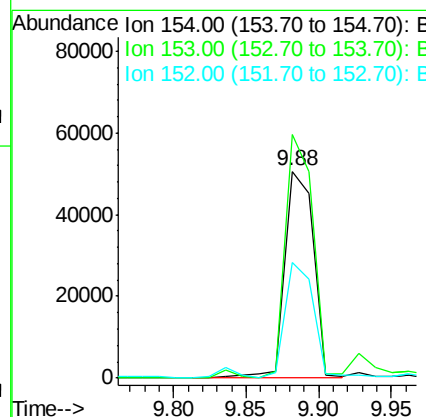
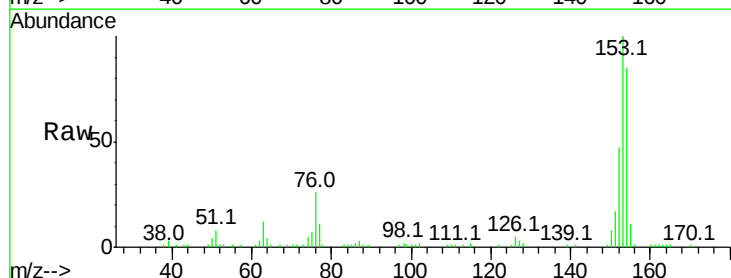
RT: 9.88 min Scan# 682

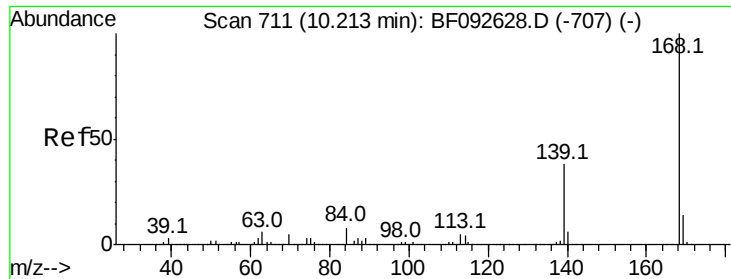
Delta R.T. -0.01 min

Lab File: BF093223.D

Acq: 27 Feb 2017 23:51

Tgt Ion:	154	Resp:	69250
Ion Ratio	Lower	Upper	
154	100		
153	117.8	88.6	133.0
152	55.8	41.6	62.4





#54

Dibenzenofuran

Concen: 2.46 ng

RT: 10.06 min Scan# 698

Delta R.T. -0.00 min

Lab File: BF093223.D

Acq: 27 Feb 2017 23:51

Instrument :

BNA_F

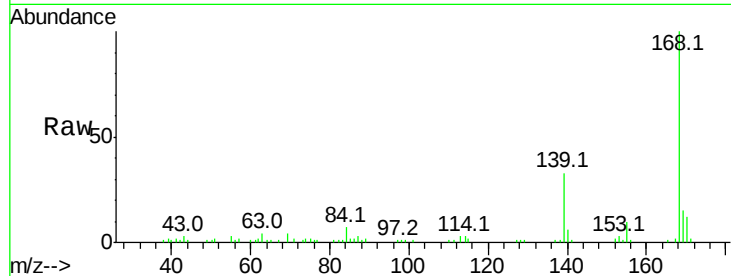
ClientSampleId :

E2-B1E-SSW-1

Tot Ion	Ratio	Lower	Upper
168	100		
139	32.6	32.6	49.0#
169	15.4	11.3	16.9

Manual Integrations
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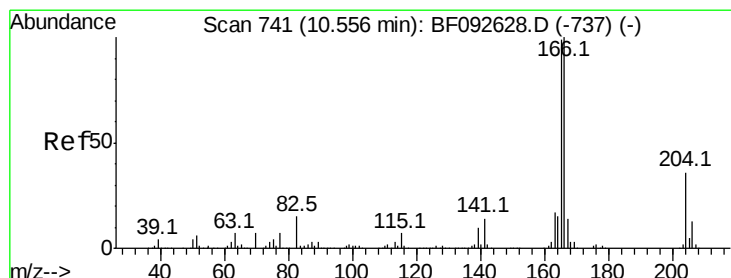
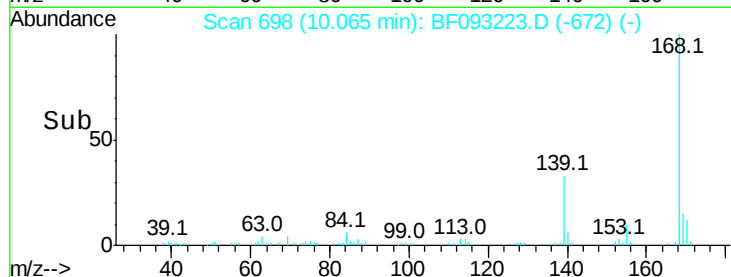
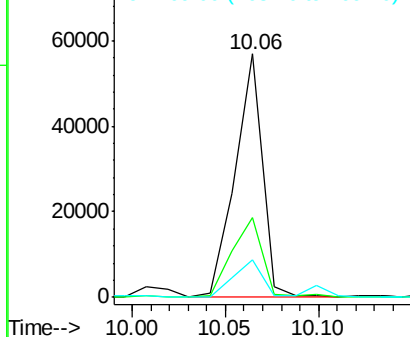
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Abundance Ion 168.00 (167.70 to 168.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 169.00 (168.70 to 169.70): E



#57

Fluorene

Concen: 4.94 ng m

RT: 10.41 min Scan# 728

Delta R.T. -0.00 min

Lab File: BF093223.D

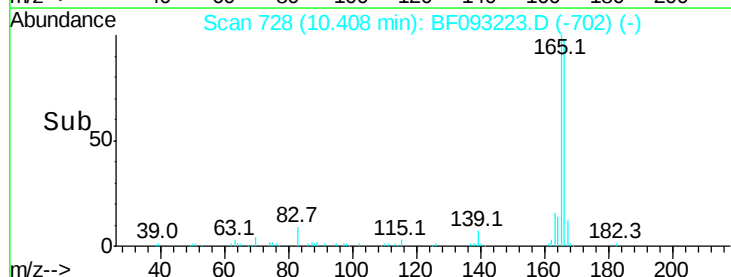
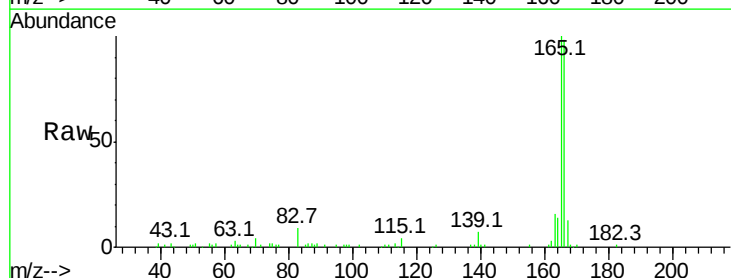
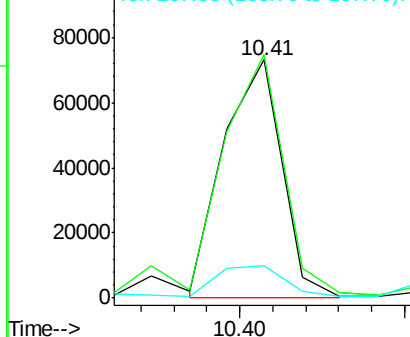
Acq: 27 Feb 2017 23:51

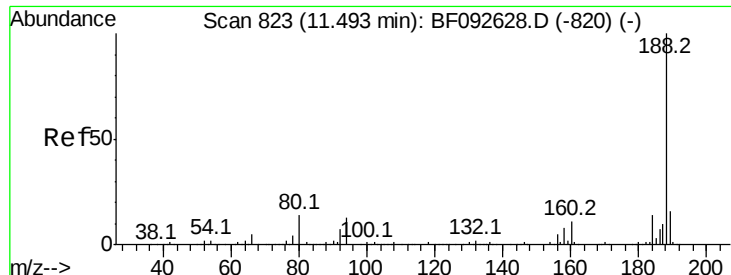
Tgt Ion	Ratio	Lower	Upper
166	100		
165	102.3	77.8	116.8
167	13.8	10.8	16.2

Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E





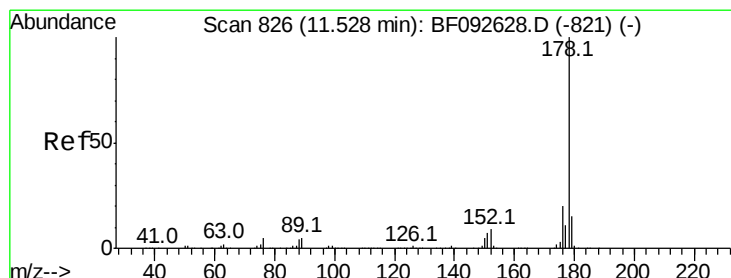
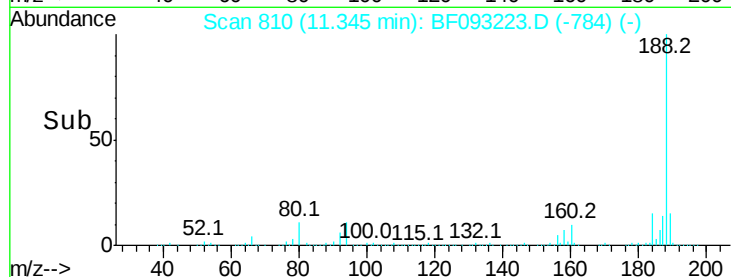
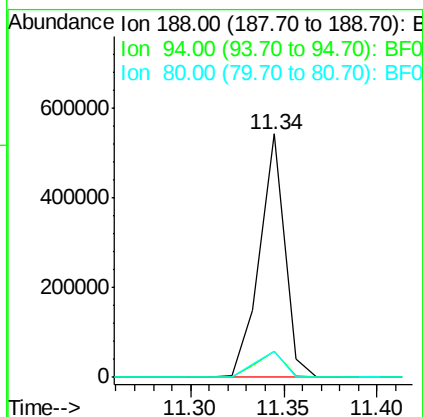
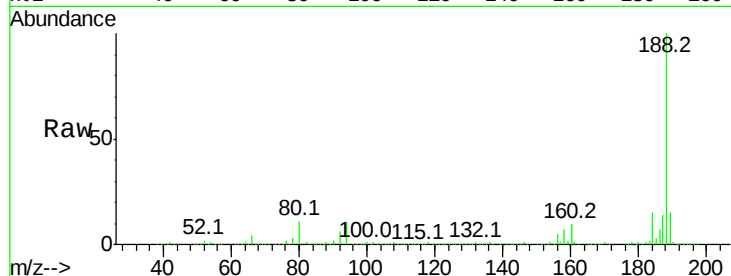
#63
Phenanthrene-d10
Concen: 20.00 ng
RT: 11.34 min Scan# 810
Delta R.T. -0.00 min
Lab File: BF093223.D
Acq: 27 Feb 2017 23:51

Instrument :
BNA_F
ClientSampleId :
E2-B1E-SSW-1

Tot Ion	Ratio	Resp Lower	Upper
188	100		
94	10.9	10.0	15.0
80	10.5	11.2	16.8

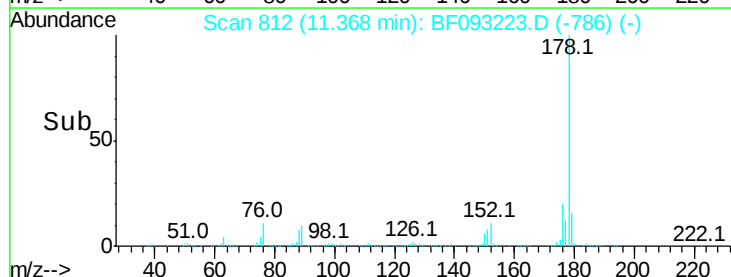
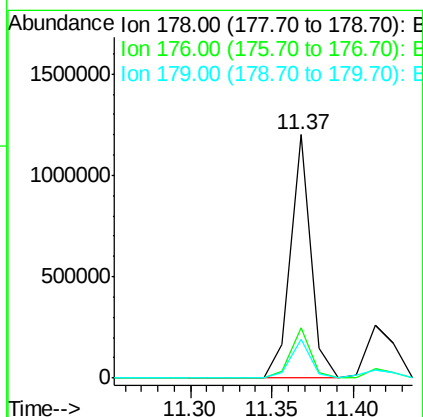
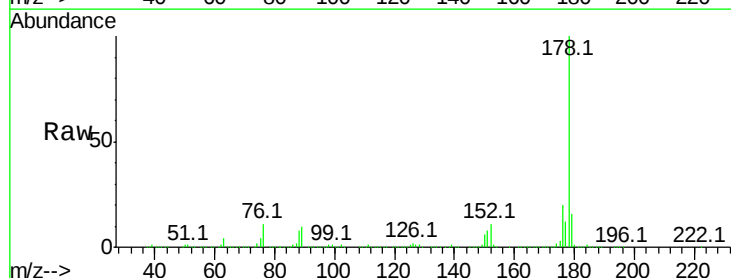
Manual Integrations
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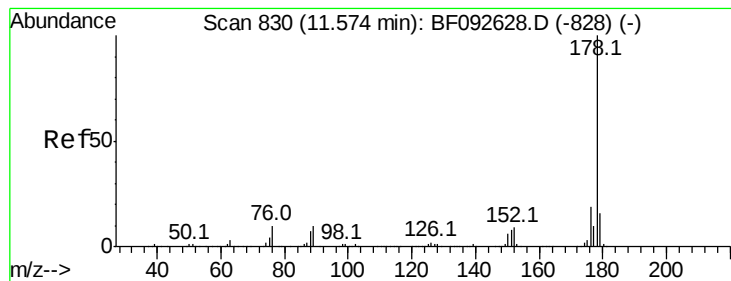
mohammad
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#70
Phenanthrene
Concen: 36.23 ng
RT: 11.37 min Scan# 812
Delta R.T. -0.00 min
Lab File: BF093223.D
Acq: 27 Feb 2017 23:51

Tgt Ion	Ratio	Resp Lower	Upper
178	100		
176	20.5	16.6	25.0
179	15.8	12.8	19.2





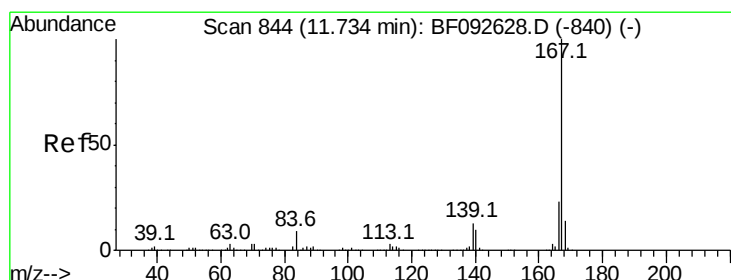
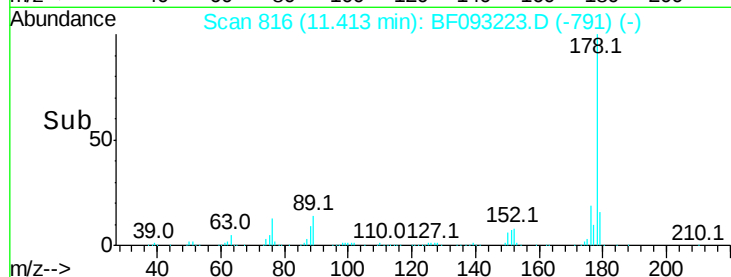
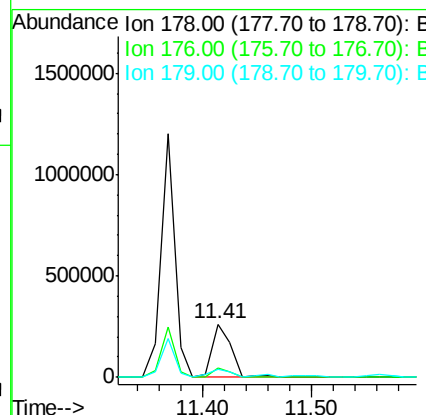
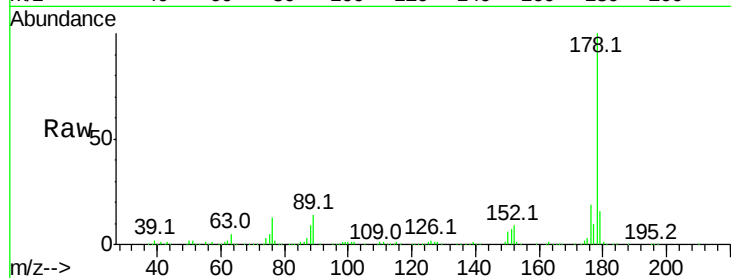
#71
 Anthracene
 Concen: 11.15 ng
 RT: 11.41 min Scan# 816
 Delta R.T. -0.01 min
 Lab File: BF093223.D
 Acq: 27 Feb 2017 23:51

Instrument :
 BNA_F
 ClientSampleId :
 E2-B1E-SSW-1

Tot Ion	Ratio	Lower	Upper
178	100		
176	18.7	15.9	23.9
179	16.3	13.2	19.8

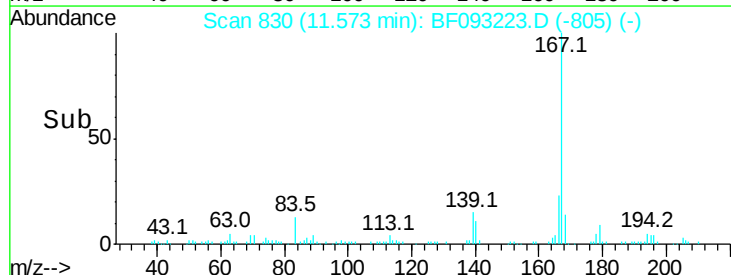
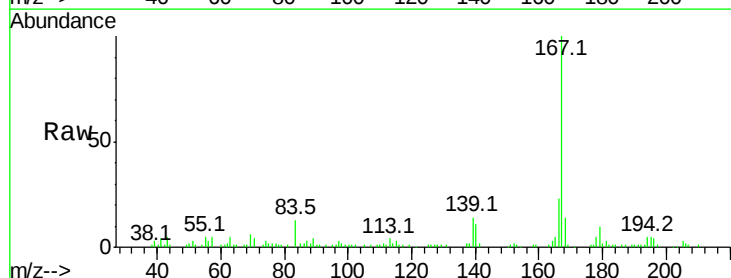
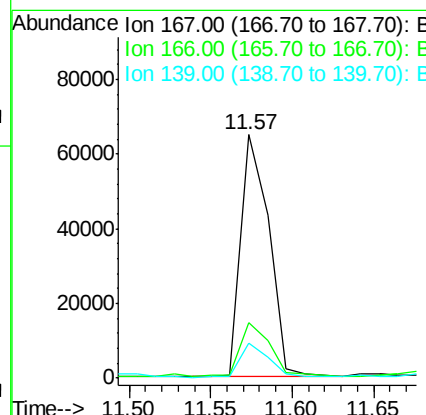
Manual Integrations
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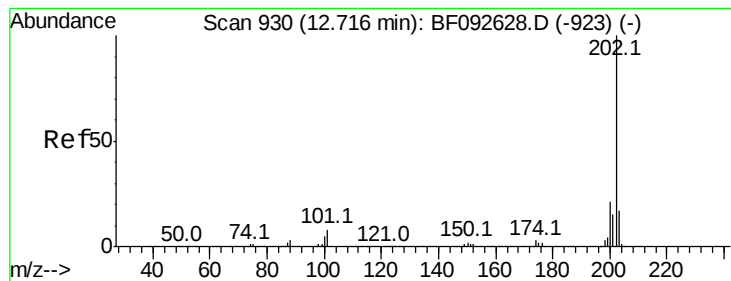
mohammad
 2/28/2017 2:35:19 PM



#72
 Carbazole
 Concen: 2.77 ng
 RT: 11.57 min Scan# 830
 Delta R.T. -0.01 min
 Lab File: BF093223.D
 Acq: 27 Feb 2017 23:51

Tgt Ion	Ratio	Lower	Upper
167	100		
166	22.9	18.2	27.2
139	14.5	11.4	17.2





#74

Fluoranthene

Concen: 43.05 ng

RT: 12.56 min Scan# 916

Delta R.T. -0.00 min

Lab File: BF093223.D

Acq: 27 Feb 2017 23:51

Instrument :

BNA_F

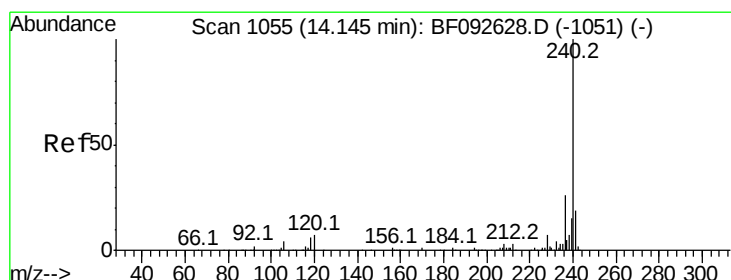
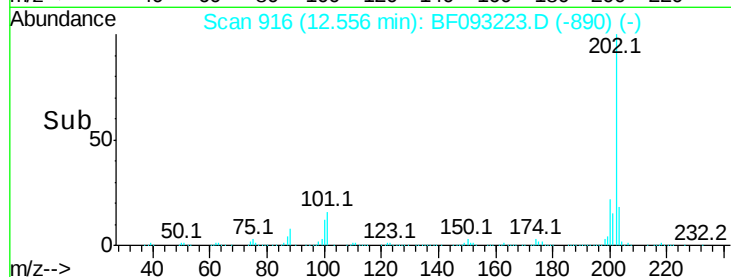
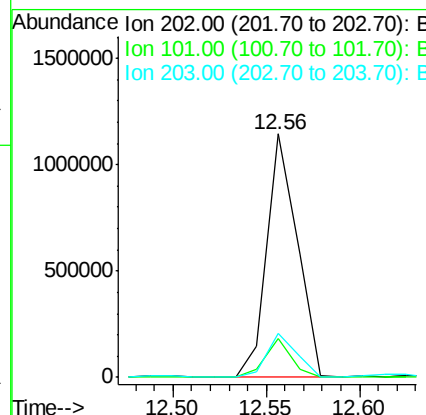
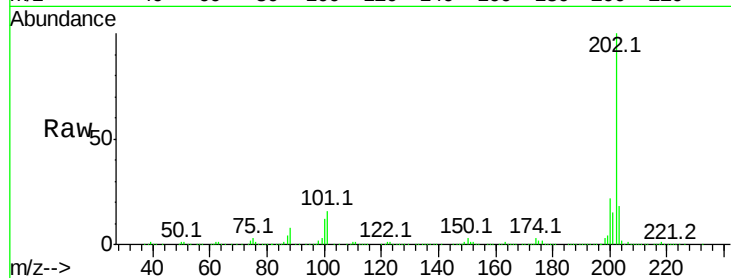
ClientSampleId :

E2-B1E-SSW-1

Tot Ion:	202	Resp:	1285885
Ion	Ratio	Lower	Upper
202	100		
101	15.8	0.0	34.6
203	17.9	0.0	38.7

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#75

Chrysene-d12

Concen: 20.00 ng

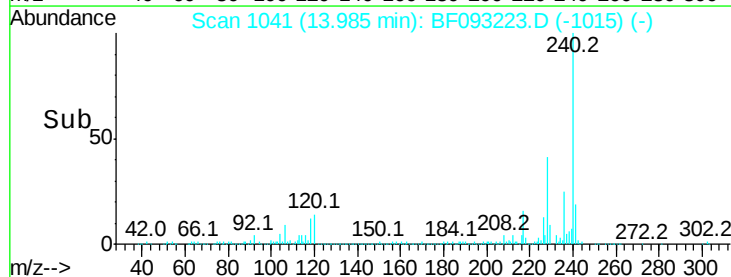
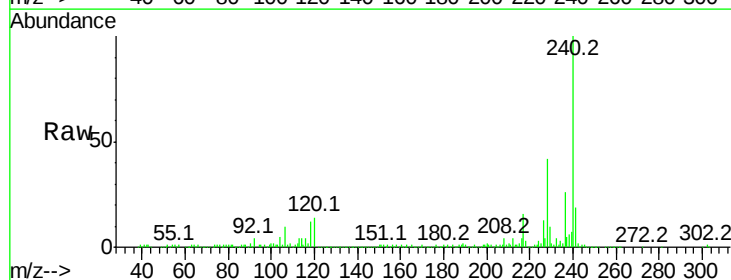
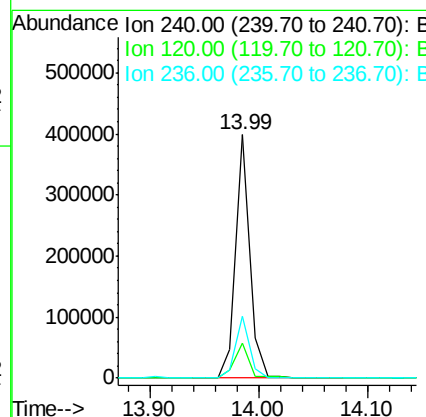
RT: 13.99 min Scan# 1041

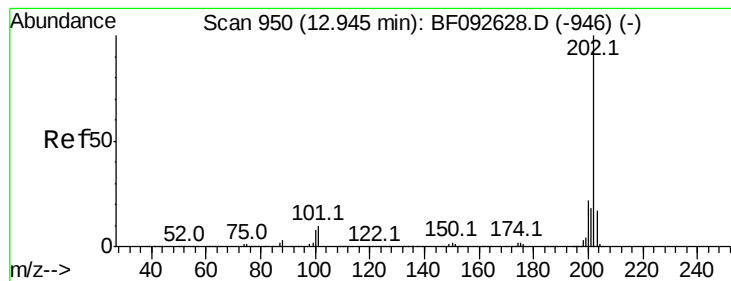
Delta R.T. -0.00 min

Lab File: BF093223.D

Acq: 27 Feb 2017 23:51

Tgt Ion:	240	Resp:	357066
Ion	Ratio	Lower	Upper
240	100		
120	14.2	12.9	19.3
236	25.6	20.9	31.3





#77

Pvrene

Concen: 48.60 ng

RT: 12.78 min Scan# 936

Delta R.T. -0.00 min

Lab File: BF093223.D

Acq: 27 Feb 2017 23:51

Instrument :

BNA_F

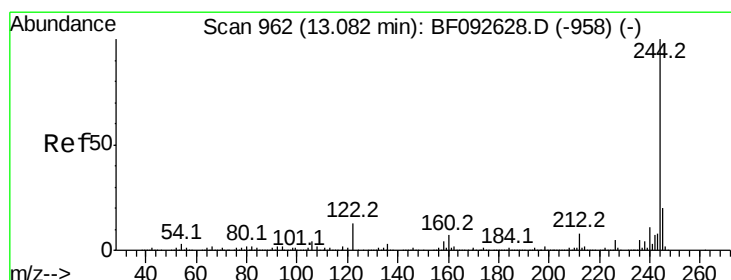
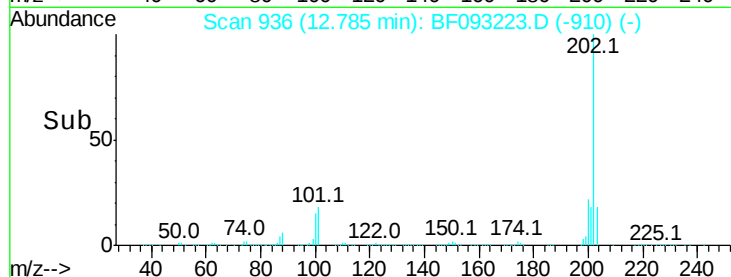
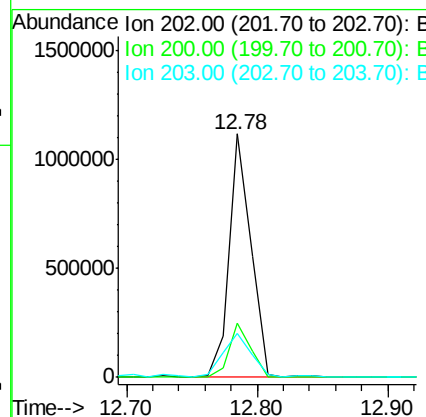
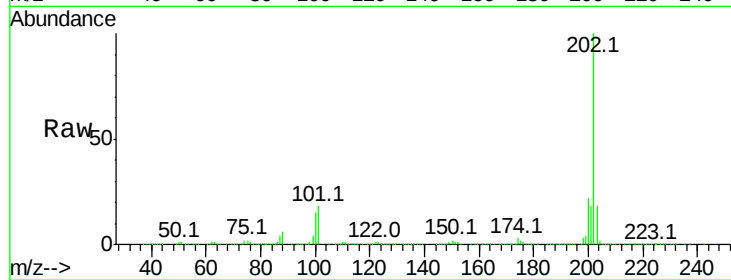
ClientSampleId :

E2-B1E-SSW-1

Tot Ion:	202	Resp:	1298732
Ion	Ratio	Lower	Upper
202	100		
200	22.1	17.7	26.5
203	18.3	14.7	22.1

Manual Integrations
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#78

Terphenyl-d14

Concen: 62.25 ng

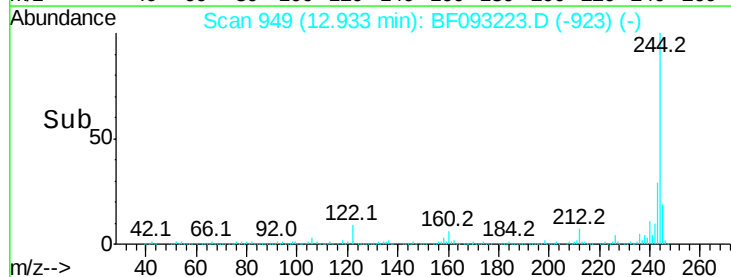
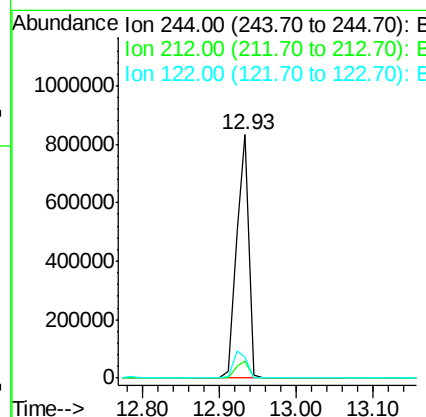
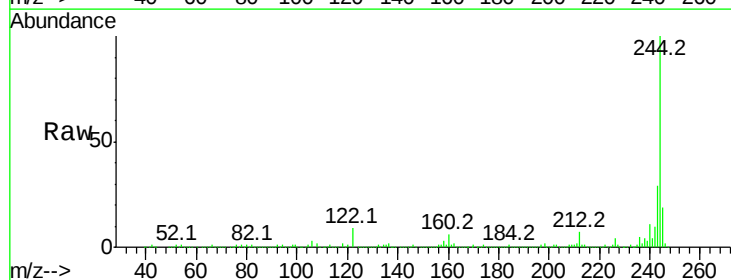
RT: 12.93 min Scan# 949

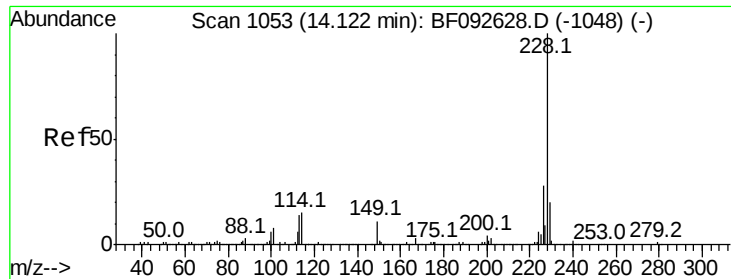
Delta R.T. -0.00 min

Lab File: BF093223.D

Acq: 27 Feb 2017 23:51

Tgt Ion:	244	Resp:	945972
Ion	Ratio	Lower	Upper
244	100		
212	7.0	6.2	9.2
122	8.6	11.4	17.2#





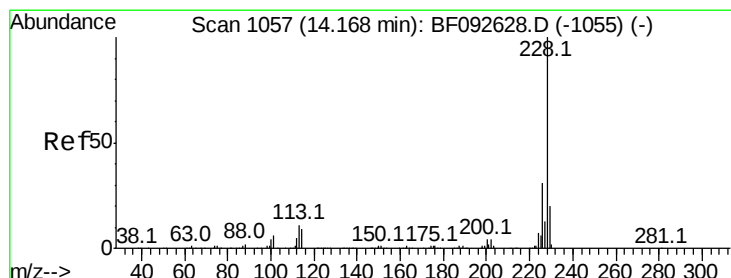
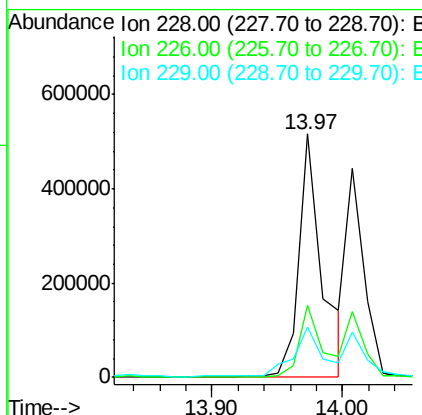
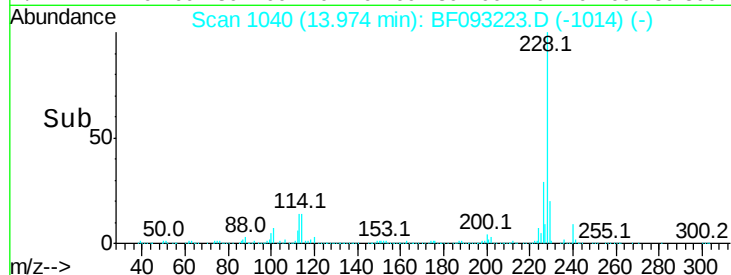
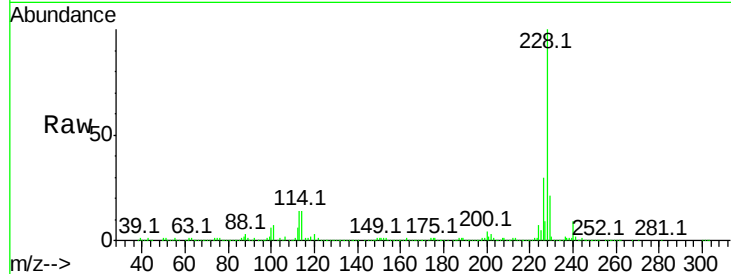
#80
Benzo(a)anthracene
Concen: 29.12 ng
RT: 13.97 min Scan# 1040
Delta R.T. -0.00 min
Lab File: BF093223.D
Acq: 27 Feb 2017 23:51

Instrument :
BNA_F
ClientSampleId :
E2-B1E-SSW-1

Tot Ion	Ratio	Lower	Upper
228	100		
226	29.6	22.4	33.6
229	20.7	16.2	24.4

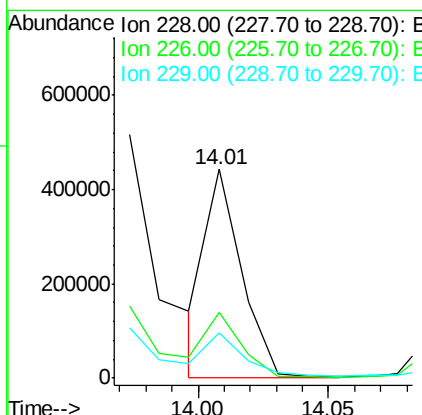
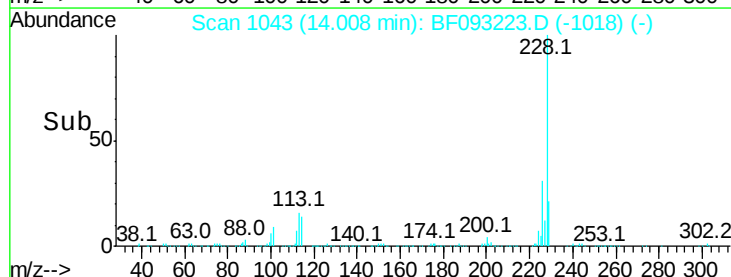
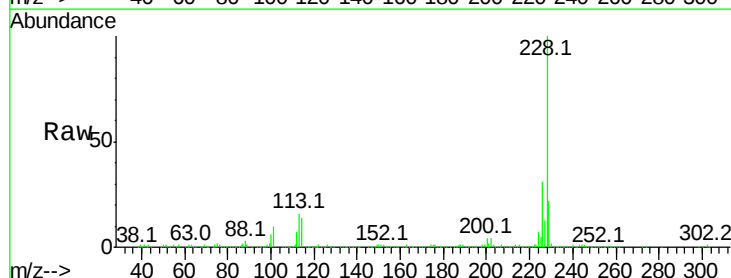
Manual Integrations
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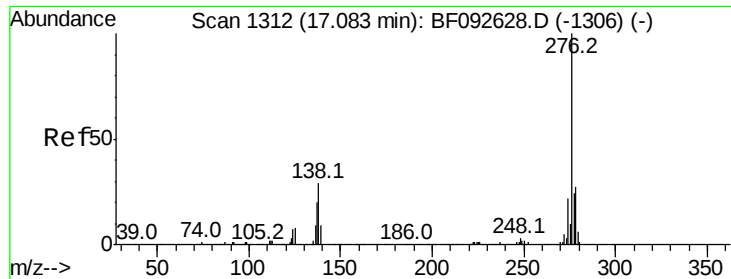
mohammad
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#82
Chrysene
Concen: 20.53 ng
RT: 14.01 min Scan# 1043
Delta R.T. -0.01 min
Lab File: BF093223.D
Acq: 27 Feb 2017 23:51

Tgt Ion	Ratio	Lower	Upper
228	100		
226	31.3	25.4	38.0
229	21.9	16.2	24.2





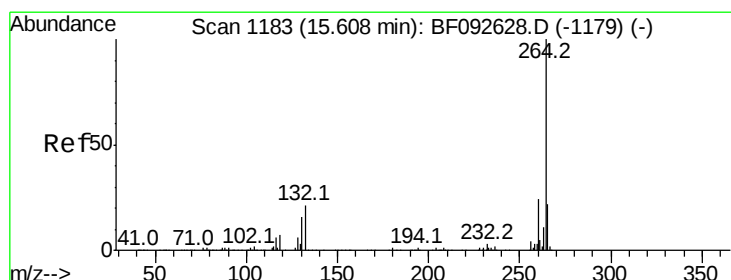
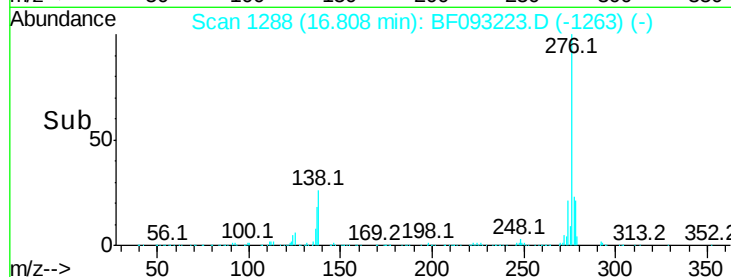
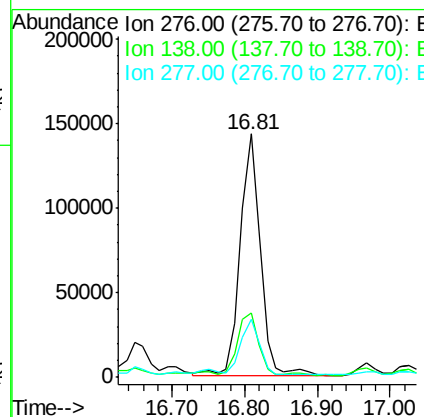
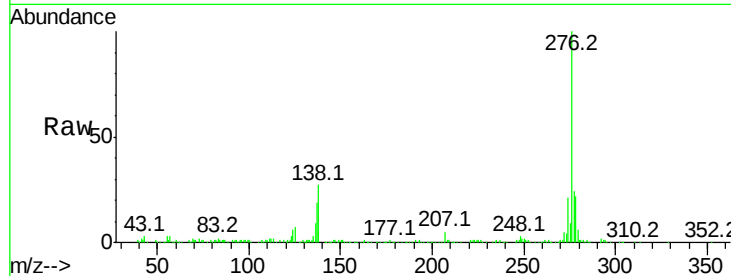
#85
Indeno(1,2,3-cd)pyrene
Concen: 17.57 ng
RT: 16.81 min Scan# 1288
Delta R.T. -0.01 min
Lab File: BF093223.D
Acq: 27 Feb 2017 23:51

Instrument :
BNA_F
ClientSampleId :
E2-B1E-SSW-1

Tot Ion	Ratio	Lower	Upper
276	100		
138	25.5	21.8	32.6
277	21.8	20.2	30.4

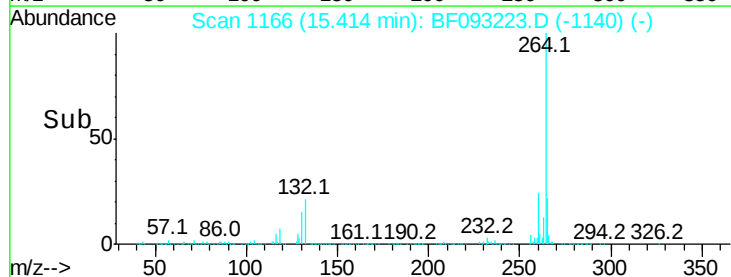
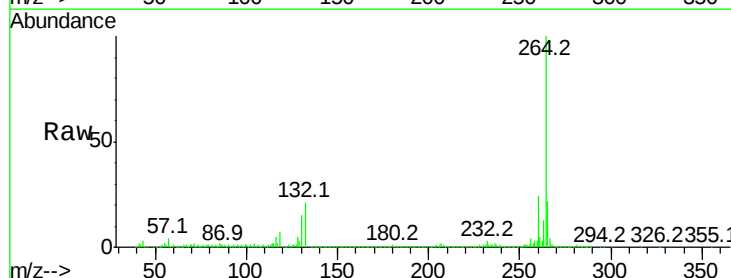
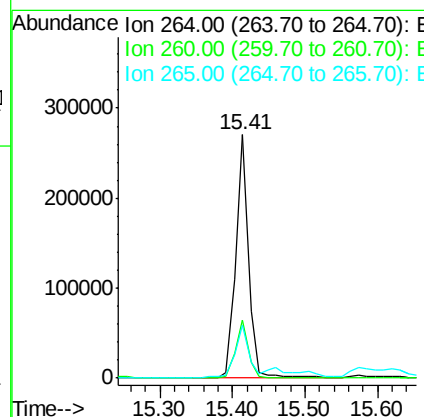
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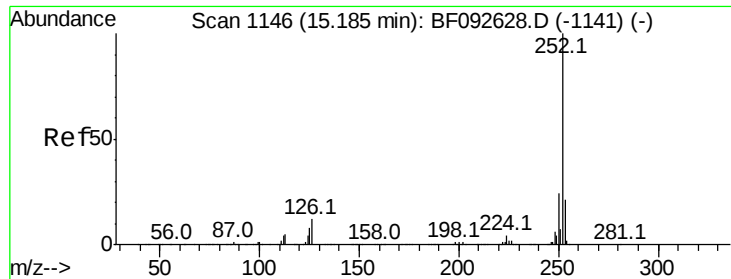
mohammad
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#86
Perylene-d12
Concen: 20.00 ng
RT: 15.41 min Scan# 1166
Delta R.T. -0.00 min
Lab File: BF093223.D
Acq: 27 Feb 2017 23:51

Tgt Ion	Ratio	Lower	Upper
264	100		
260	23.8	19.2	28.8
265	21.9	17.4	26.0





#87

Benzo(b)fluoranthene

Concen: 25.34 ng m

RT: 15.00 min Scan# 1130

Delta R.T. -0.01 min

Lab File: BF093223.D

Acq: 27 Feb 2017 23:51

Instrument :

BNA_F

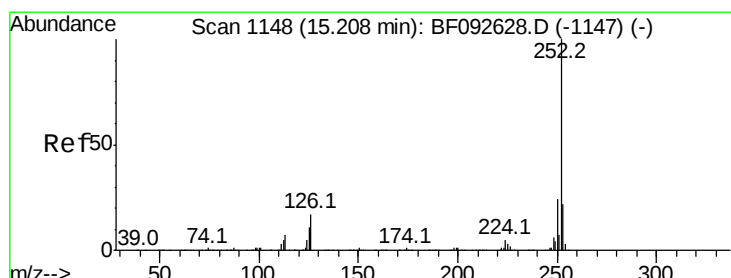
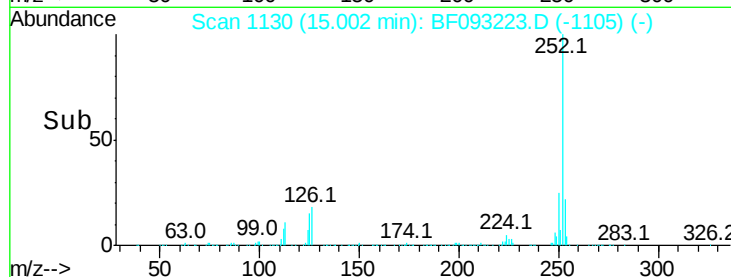
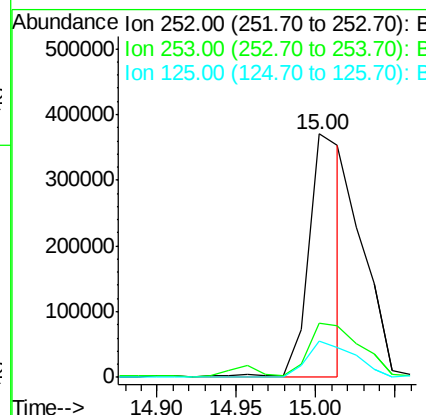
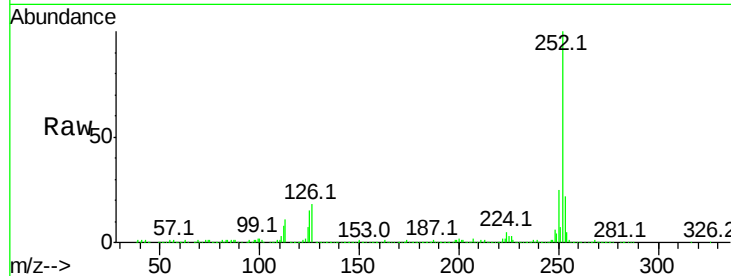
ClientSampleId :

E2-B1E-SSW-1

Tot Ion:	252	Resp:	554933
Ion Ratio	Lower	Upper	
252	100		
253	22.5	18.2	27.4
125	14.9	9.8	14.6

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#88

Benzo(k)fluoranthene

Concen: 14.04 ng m

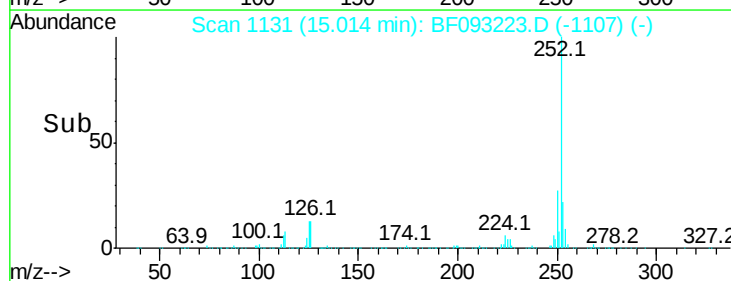
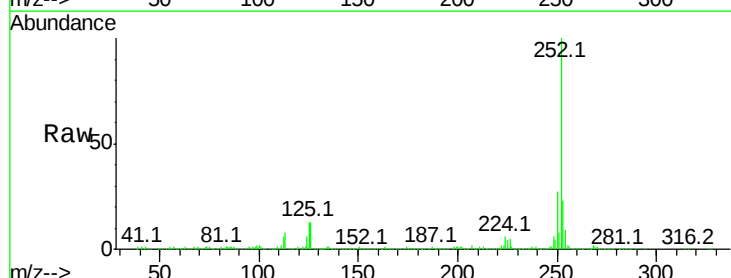
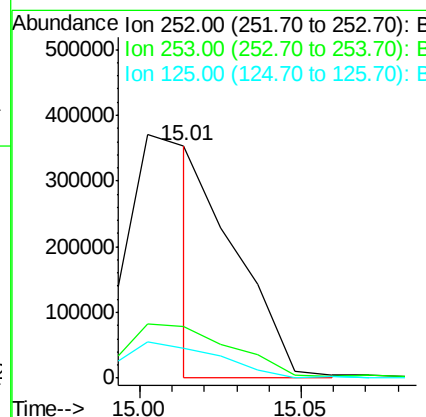
RT: 15.01 min Scan# 1131

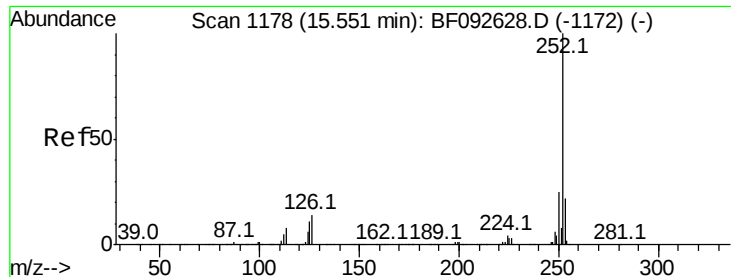
Delta R.T. -0.02 min

Lab File: BF093223.D

Acq: 27 Feb 2017 23:51

Tgt Ion:	252	Resp:	265484
Ion Ratio	Lower	Upper	
252	100		
253	22.5	18.5	27.7
125	12.9	8.9	13.3





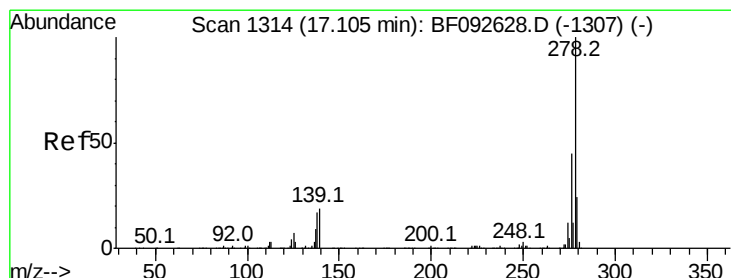
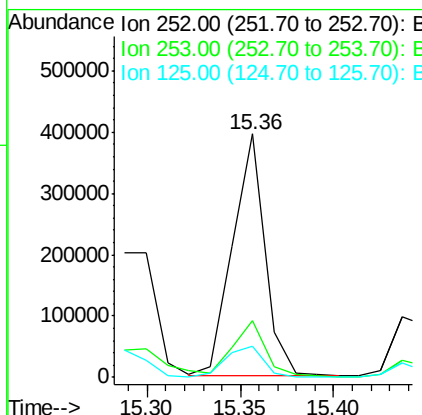
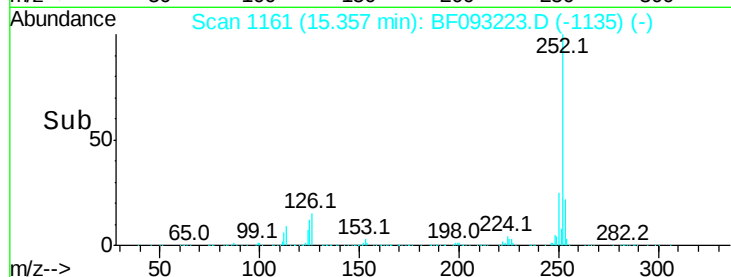
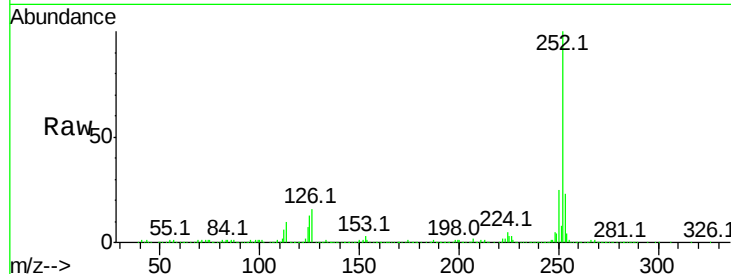
#89
Benzo(a)pyrene
Concen: 25.48 ng
RT: 15.36 min Scan# 1161
Delta R.T. -0.00 min
Lab File: BF093223.D
Acq: 27 Feb 2017 23:51

Instrument :
BNA_F
ClientSampleId :
E2-B1E-SSW-1

Tot Ion	Ratio	Lower	Upper
252	100		
253	23.1	18.2	27.2
125	12.6	10.0	15.0

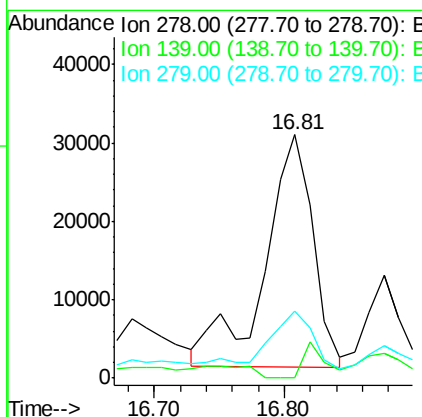
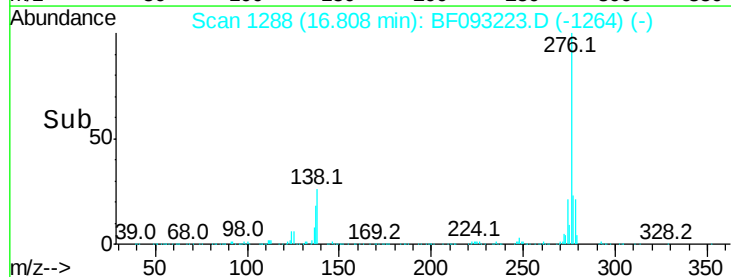
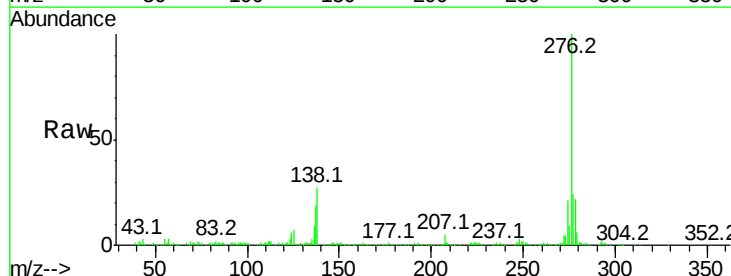
Manual Integrations
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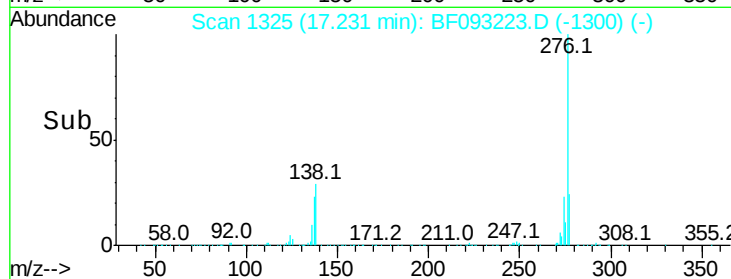
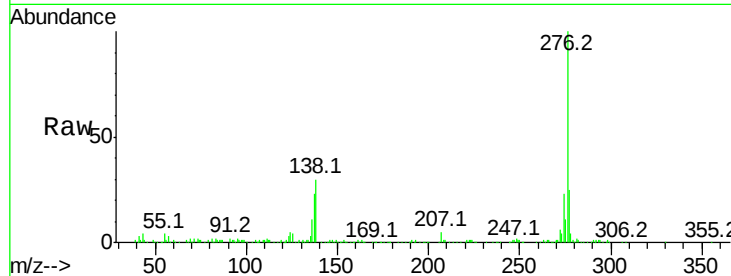
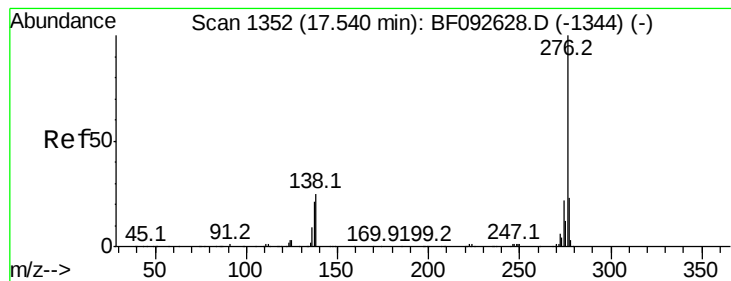
mohammad
2/28/2017 2:35:19 PM



#90
Dibenzo(a,h)anthracene
Concen: 5.00 ng m
RT: 16.81 min Scan# 1288
Delta R.T. -0.02 min
Lab File: BF093223.D
Acq: 27 Feb 2017 23:51

Tgt Ion	Ratio	Lower	Upper
278	100		
139	0.0	14.8	22.2#
279	27.7	19.8	29.6





#91

Benzo(a,h,i)perylene

Concen: 16.74 ng

RT: 17.23 min Scan# 1325

Delta R.T. -0.01 min

Lab File: BF093223.D

Acq: 27 Feb 2017 23:51

Instrument :

BNA_F

ClientSampleId :

E2-B1E-SSW-1

Tot Ion	Ratio	Resp	Lower	Upper
276	100			
277	24.7	19.2	28.8	
138	30.1	16.0	24.0	

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