

Data Path : Z:\HPCHEM1\BNA F\DATA\BF032917\
 Data File : BF094031.D
 Acq On : 29 Mar 2017 21:07
 Operator : SJ/MA
 Sample : I2443-12
 Misc :
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 E2-AA9-WSW

Manual Integrations
 APPROVED

mohammad
 3/30/2017 2:31:47 PM

Quant Time: Mar 30 04:08:19 2017
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF032217.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Mar 27 16:10:49 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.92	152	168439	20.00	ng	-0.04
21) Naphthalene-d8	7.42	136	677659	20.00	ng	-0.04
38) Acenaphthene-d10	9.56	164	306418	20.00	ng	-0.04
63) Phenanthrene-d10	11.39	188	515998	20.00	ng	-0.04
75) Chrysene-d12	14.64	240	340887	20.00	ng	-0.04
86) Perylene-d12	16.27	264	280305	20.00	ng	-0.04

System Monitoring Compounds						
5) 2-Fluorophenol	4.45	112	1111768	111.48	ng	-0.02
7) Phenol-d6	5.52	99	1396078	113.16	ng	-0.03
23) Nitrobenzene-d5	6.57	82	856277	72.11	ng	-0.04
41) 2,4,6-Tribromophenol	10.54	330	282893	116.83	ng	-0.04
44) 2-Fluorobiphenyl	8.75	172	1198321	59.65	ng	-0.04
78) Terphenyl-d14	13.37	244	835251	54.92	ng	-0.04

Target Compounds				Qvalue		
10) Phenol	5.53	94	259814	18.51	ng	89
17) 2-Methylphenol	6.22	107	282586	30.10	ng	97
20) 3+4-Methylphenols	6.40	107	554122	48.74	ng	# 62
27) 2,4-Dimethylphenol	7.05	122	400604	41.63	ng	# 91
31) Naphthalene	7.45	128	217691	6.68	ng	100
33) 4-Chloroaniline	7.51	127	28608	2.17	ng	99
49) Dimethylphthalate	9.24	163	99693	4.58	ng	100
51) Acenaphthene	9.60	154	106544	5.68	ng	97
54) Dibenzofuran	9.81	168	63003	2.47	ng	98
57) Fluorene	10.23	166	119520	5.64	ng	97
70) Phenanthrene	11.42	178	1271937	44.31	ng	99
71) Anthracene	11.48	178	404468	13.69	ng	97
72) Carbazole	11.67	167	109878	3.63	ng	97
74) Fluoranthene	12.89	202	1814971	61.75	ng	100
77) Pyrene	13.17	202	1683573	68.05	ng	99
80) Benzo(a)anthracene	14.63	228	709136	35.67	ng	99
82) Chrysene	14.67	228	661563	35.86	ng	96
85) Indeno(1,2,3-cd)pyrene	17.63	276	336759	21.08	ng	92
87) Benzo(b)fluoranthene	15.87	252	738347m	42.97	ng	
88) Benzo(k)fluoranthene	15.89	252	204792m	12.18	ng	
89) Benzo(a)pyrene	16.22	252	550466	34.79	ng	98
90) Dibenz(a,h)anthracene	17.64	278	77652m	5.80	ng	
91) Benzo(g,h,i)perylene	18.03	276	326783	24.20	ng	99

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

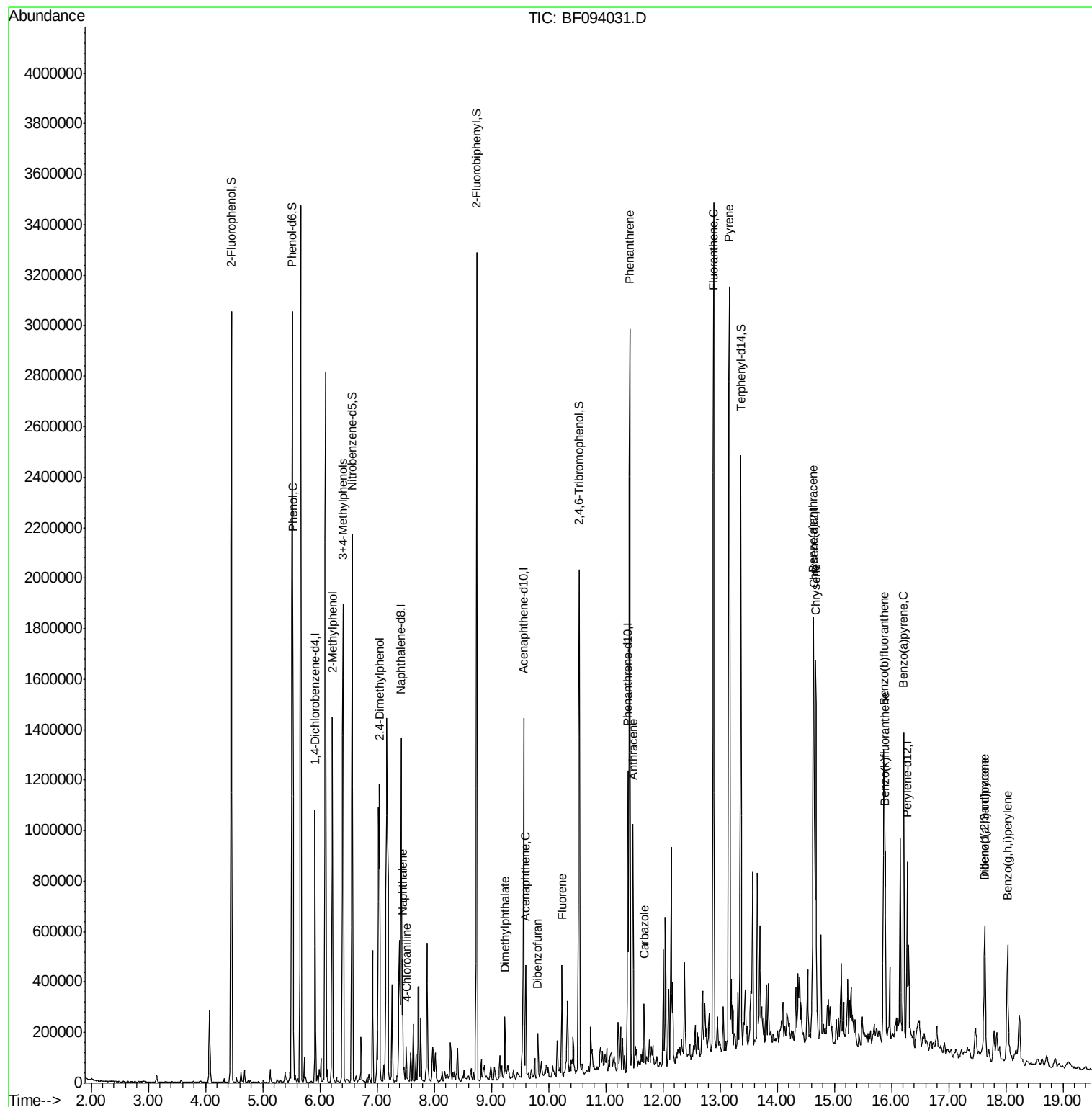
Data Path : Z:\HPCHEM1\BNA F\DATA\BF032917\
Data File : BF094031.D
Acq On : 29 Mar 2017 21:07
Operator : SJ/MA
Sample : I2443-12
Misc :
ALS Vial : 15 Sample Multiplier: 1

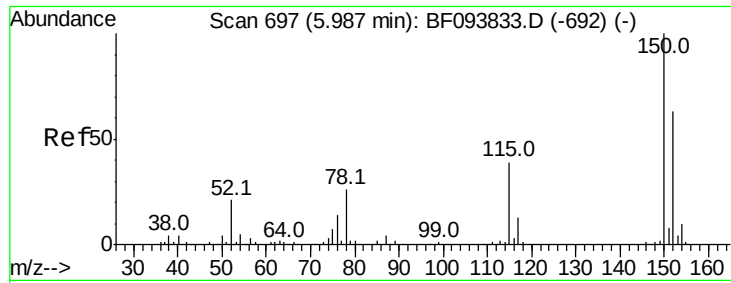
Instrument :
BNA_F
ClientSampleID :
E2-AA9-WSW

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#1

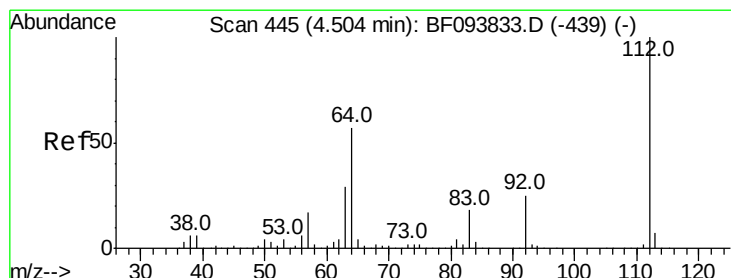
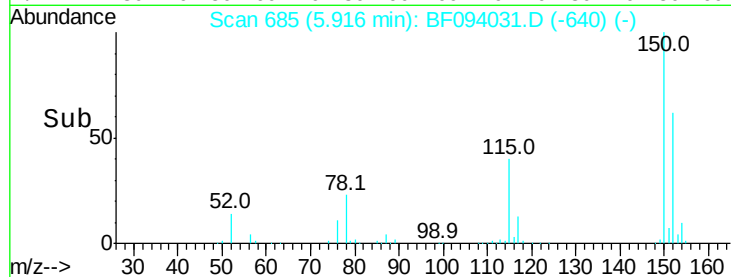
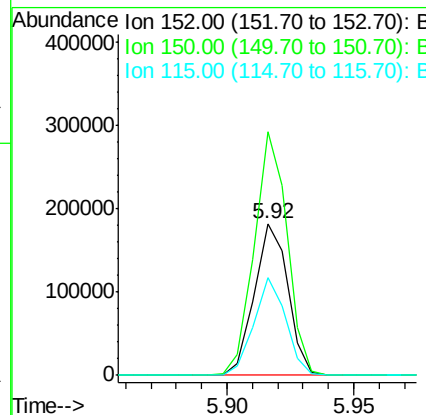
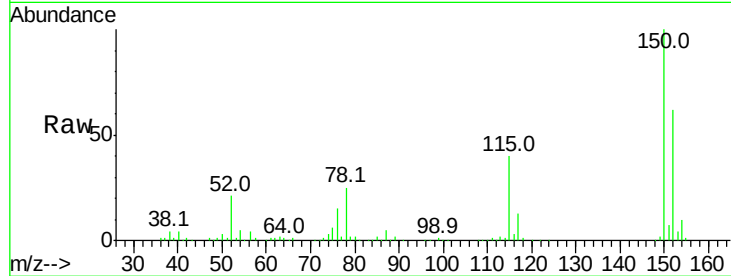
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 5.92 min Scan# 685
Delta R.T. -0.04 min
Lab File: BF094031.D
Acq: 29 Mar 2017 21:07

Instrument :
BNA_F
ClientSampleId :
E2-AA9-WSW

Tot Ion	Ratio	Lower	Upper
152	100		
150	160.2	126.2	189.2
115	64.4	52.2	78.2

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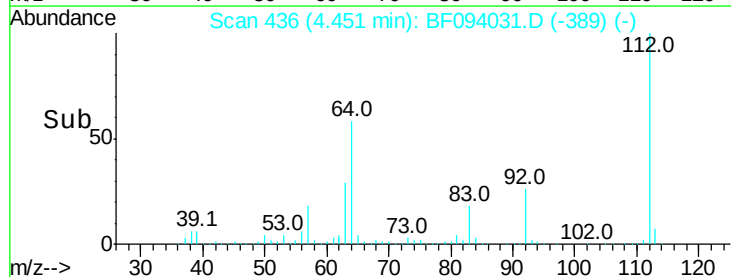
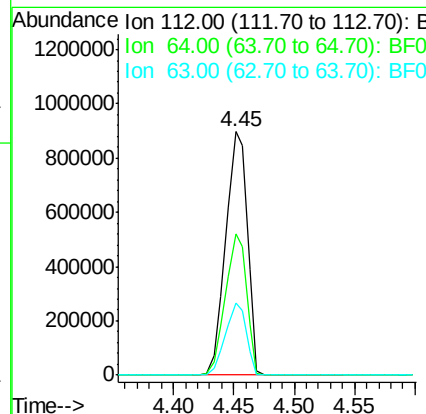
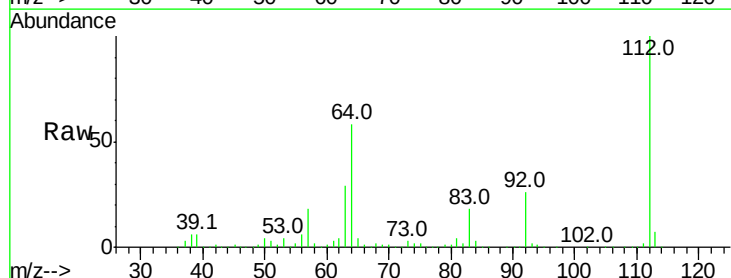
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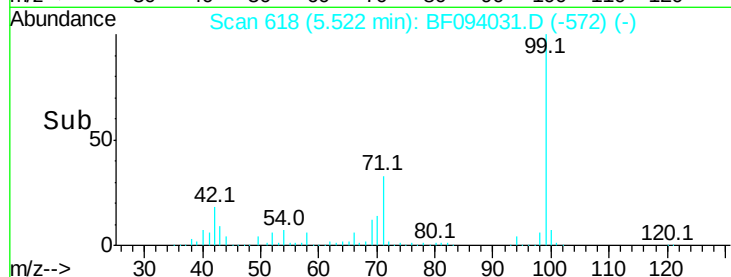
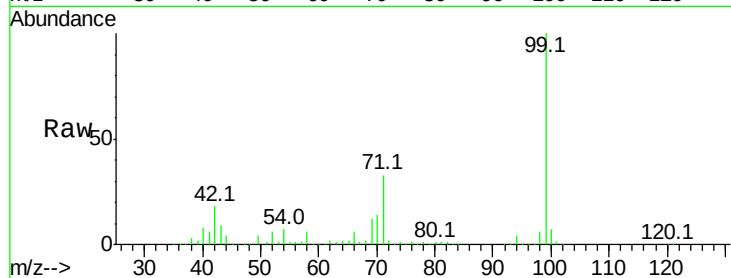
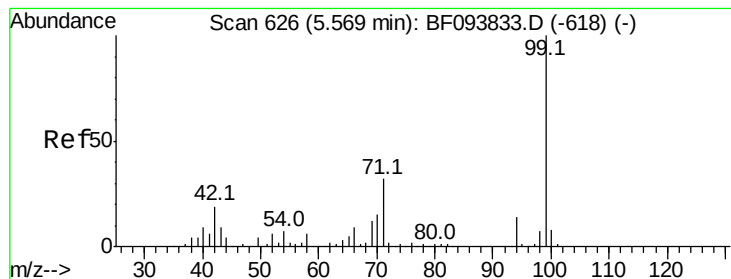


#5

2-Fluorophenol
Concen: 111.48 ng
RT: 4.45 min Scan# 436
Delta R.T. -0.02 min
Lab File: BF094031.D
Acq: 29 Mar 2017 21:07

Tgt Ion	Ratio	Lower	Upper
112	100		
64	58.1	46.0	69.0
63	29.5	23.4	35.0





#7

Phenol-d6

Concen: 113.16 ng

RT: 5.52 min Scan# 618

Delta R.T. -0.03 min

Lab File: BF094031.D

Acq: 29 Mar 2017 21:07

Tot Ion: 99 Resp: 1396078

Ion Ratio Lower Upper

99 100

42 17.5 13.5 20.3

71 33.5 24.5 36.7

Instrument :

BNA_F

ClientSampleId :

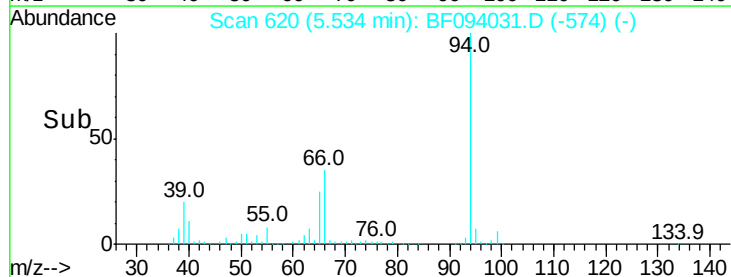
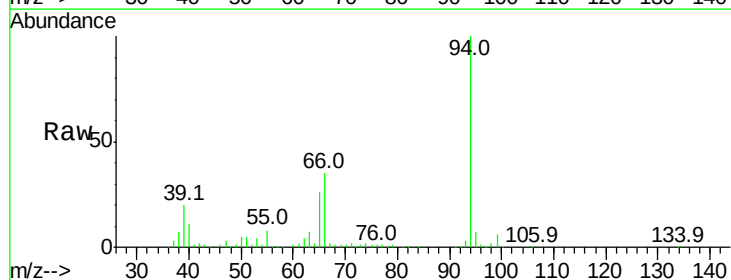
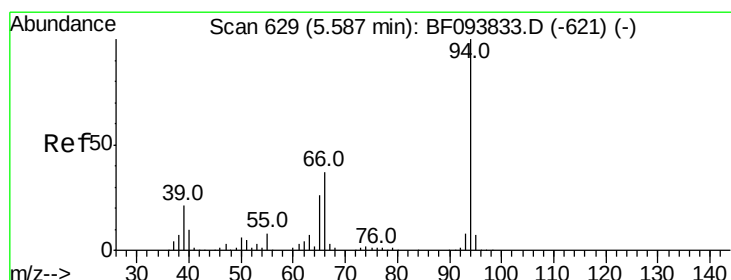
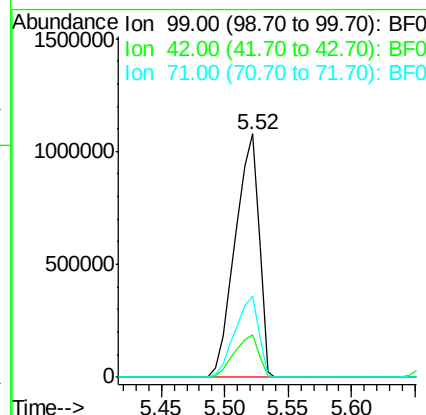
E2-AA9-WSW

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#10

Phenol

Concen: 18.51 ng

RT: 5.53 min Scan# 620

Delta R.T. -0.03 min

Lab File: BF094031.D

Acq: 29 Mar 2017 21:07

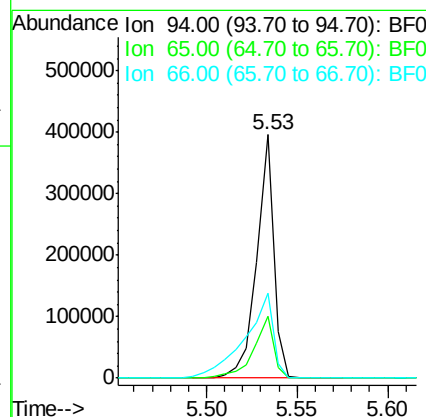
Tgt Ion: 94 Resp: 259814

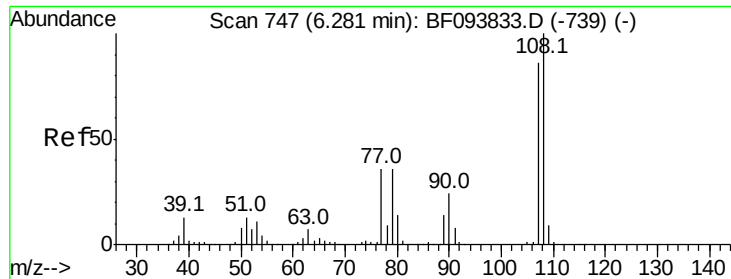
Ion Ratio Lower Upper

94 100

65 25.5 9.9 49.9

66 34.7 23.1 63.1





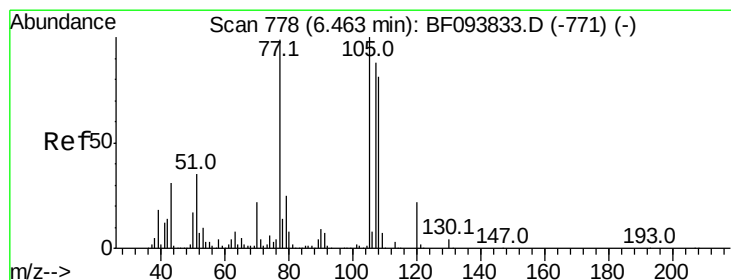
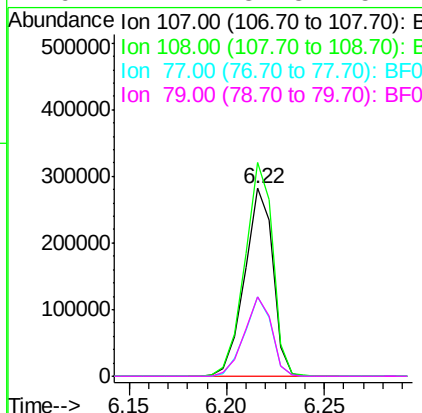
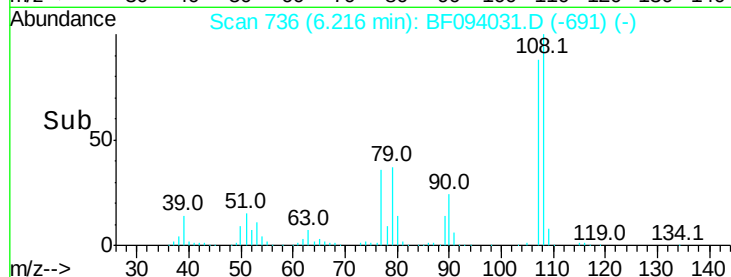
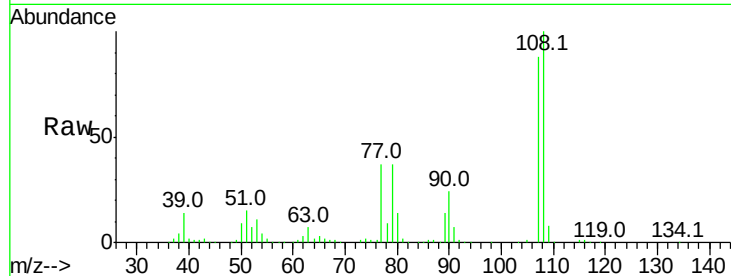
#17
2-Methylphenol
Concen: 30.10 ng
RT: 6.22 min Scan# 736
Delta R.T. -0.04 min
Lab File: BF094031.D
Acq: 29 Mar 2017 21:07

Instrument :
BNA_F
ClientSampleId :
E2-AA9-WSW

Tot Ion	Ratio	Resp	Lower	Upper
107	100			
108	113.9	93.4	140.0	
77	42.2	35.8	53.6	
79	42.4	34.8	52.2	

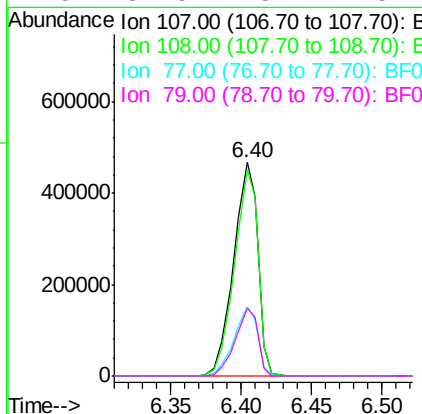
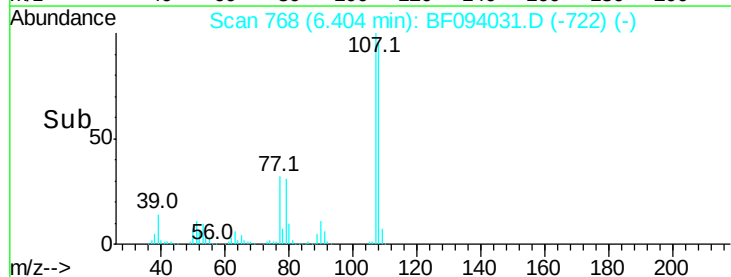
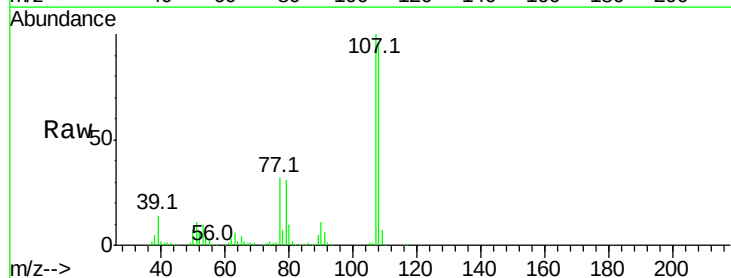
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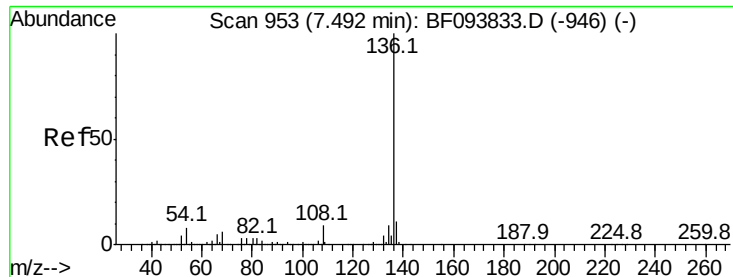
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#20
3+4-Methylphenols
Concen: 48.74 ng
RT: 6.40 min Scan# 768
Delta R.T. -0.03 min
Lab File: BF094031.D
Acq: 29 Mar 2017 21:07

Tgt Ion	Ratio	Resp	Lower	Upper
107	100			
108	96.2	71.0	111.0	
77	32.2	90.5	130.5#	
79	31.5	8.4	48.4	





#21

Naphthalene-d8

Concen: 20.00 ng

RT: 7.42 min Scan# 941

Delta R.T. -0.04 min

Lab File: BF094031.D

Acq: 29 Mar 2017 21:07

Instrument :

BNA_F

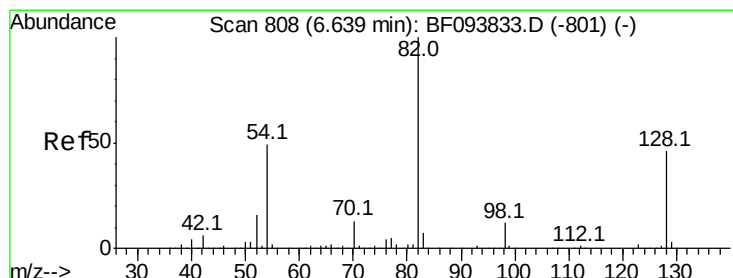
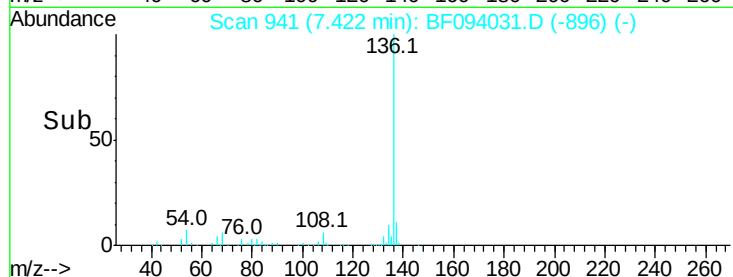
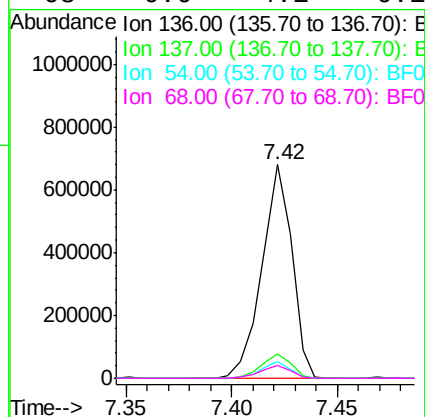
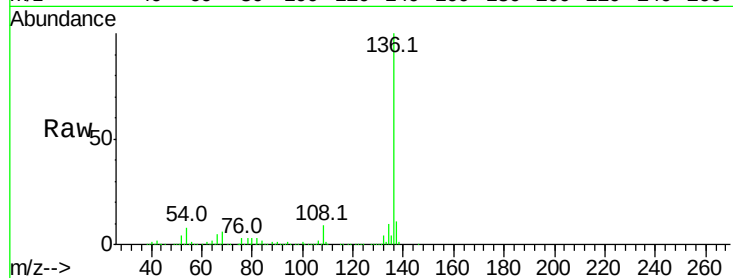
ClientSampleId :

E2-AA9-WSW

Tot Ion	Ratio	Resp	Lower	Upper
136	100	677659		
137	11.3	8.5	12.7	
54	7.6	4.9	7.3	
68	6.0	4.1	6.1	

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#23

Nitrobenzene-d5

Concen: 72.11 ng

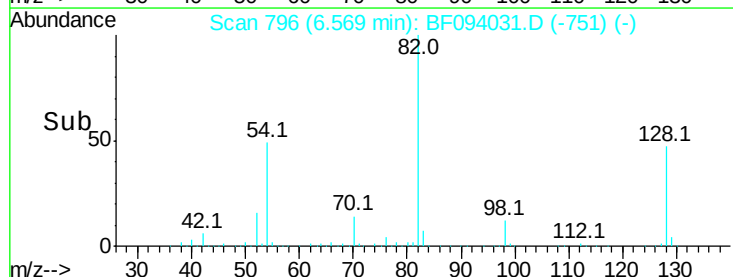
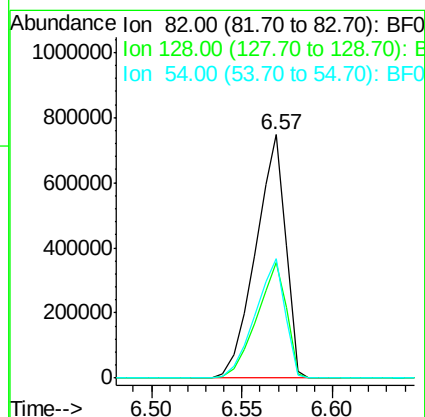
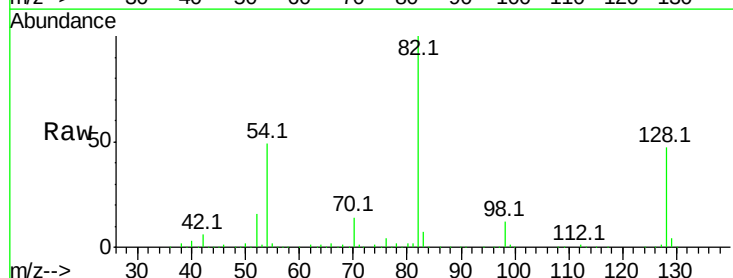
RT: 6.57 min Scan# 796

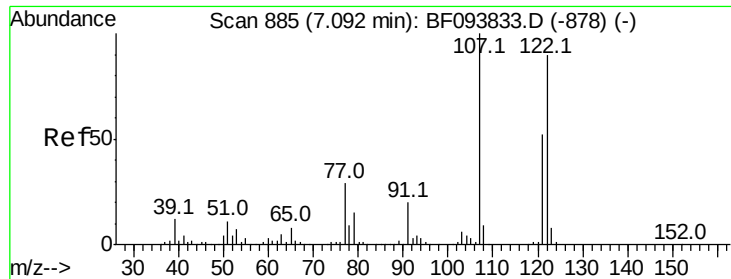
Delta R.T. -0.04 min

Lab File: BF094031.D

Acq: 29 Mar 2017 21:07

Tgt Ion	Ratio	Resp	Lower	Upper
82	100	856277		
128	47.3	34.0	51.0	
54	48.8	42.2	63.2	





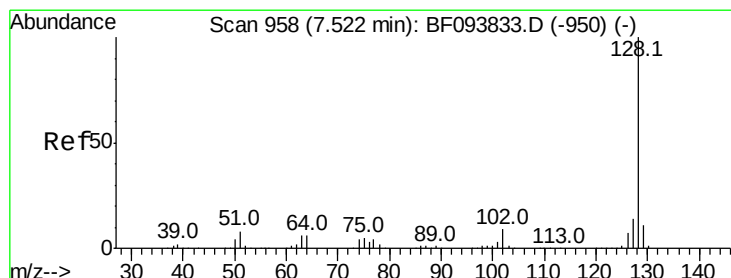
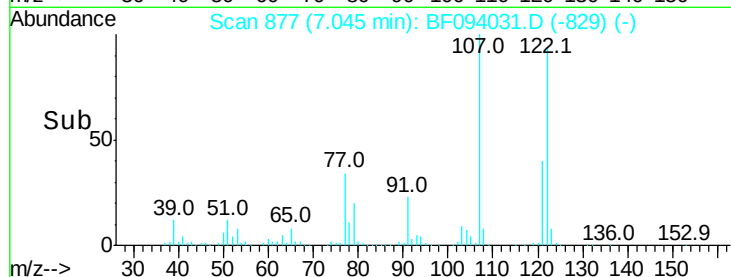
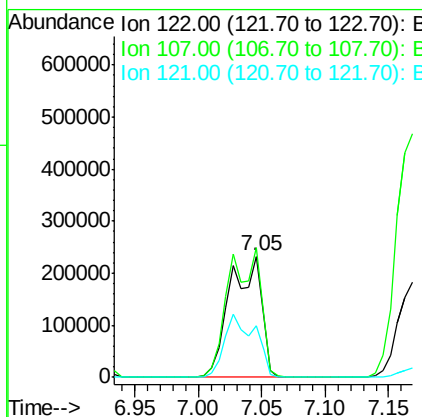
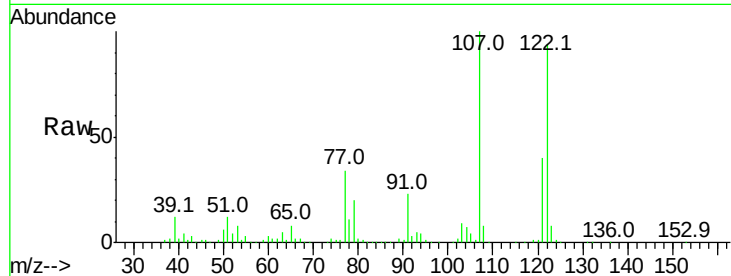
#27
 2,4-Dimethylphenol
 Concen: 41.63 ng
 RT: 7.05 min Scan# 877
 Delta R.T. -0.02 min
 Lab File: BF094031.D
 Acq: 29 Mar 2017 21:07

Instrument :
 BNA_F
 ClientSampleId :
 E2-AA9-WSW

Tot Ion:	122	Resp:	400604
Ion Ratio	Lower	Upper	
122	100		
107	106.6	89.2	133.8
121	43.0	45.2	67.8#

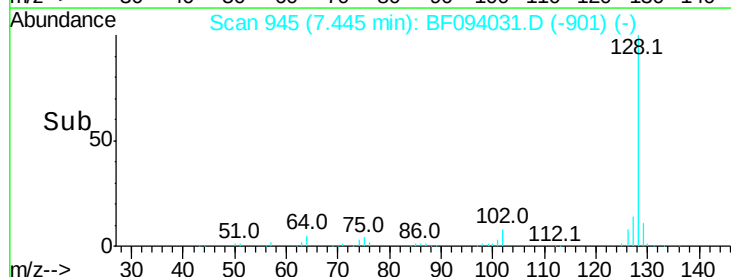
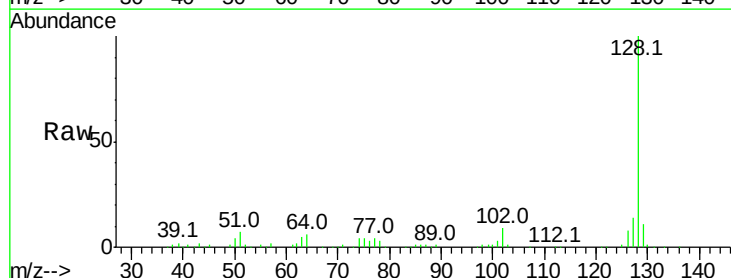
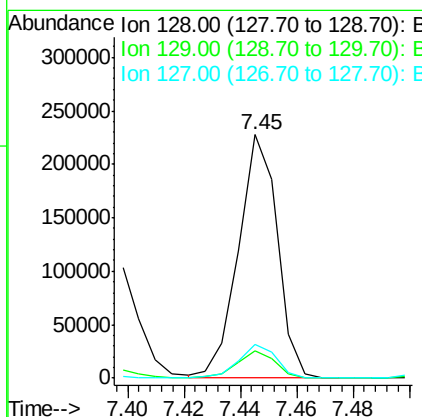
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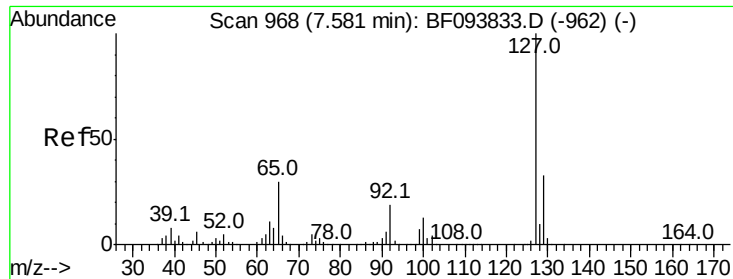
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#31
 Naphthalene
 Concen: 6.68 ng
 RT: 7.45 min Scan# 945
 Delta R.T. -0.04 min
 Lab File: BF094031.D
 Acq: 29 Mar 2017 21:07

Tgt Ion:	128	Resp:	217691
Ion Ratio	Lower	Upper	
128	100		
129	11.4	9.0	13.6
127	13.6	10.8	16.2





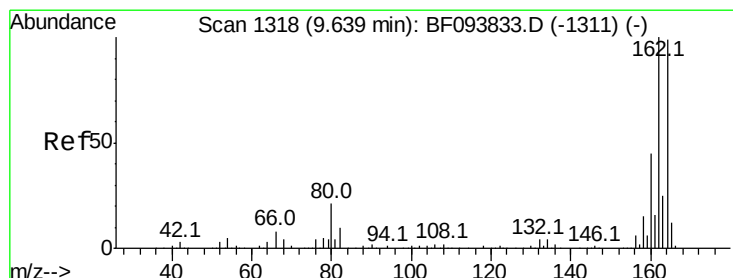
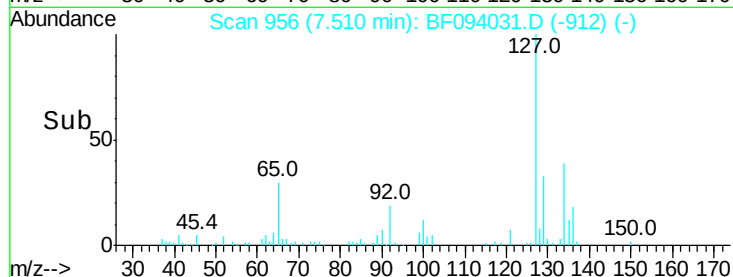
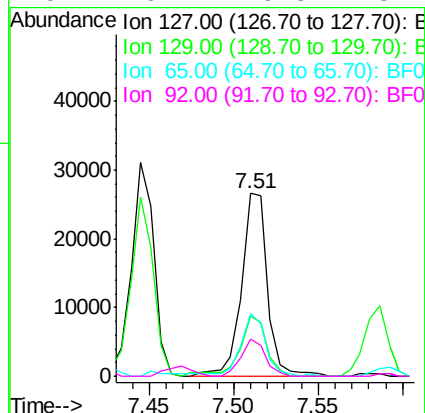
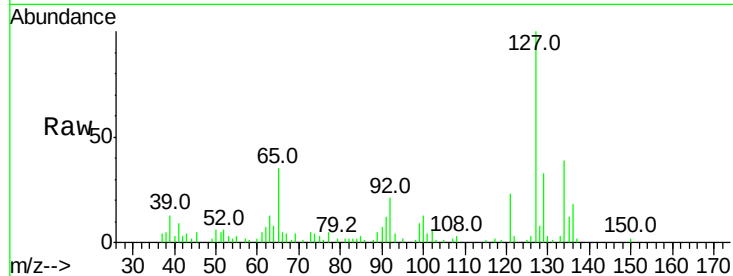
#33
4-Chloroaniline
Concen: 2.17 ng
RT: 7.51 min Scan# 956
Delta R.T. -0.04 min
Lab File: BF094031.D
Acq: 29 Mar 2017 21:07

Instrument :
BNA_F
ClientSampleId :
E2-AA9-WSW

Tot Ion	Ion	Ratio	Resp	Lower	Upper
127	100		28608		
129	33.1	26.2	39.2		
65	34.7	27.8	41.8		
92	20.7	16.8	25.2		

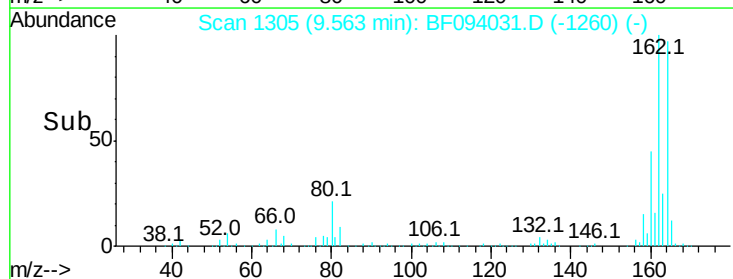
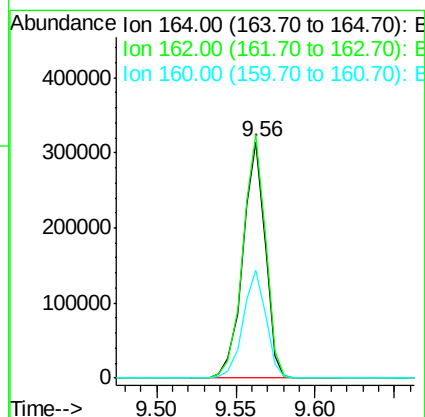
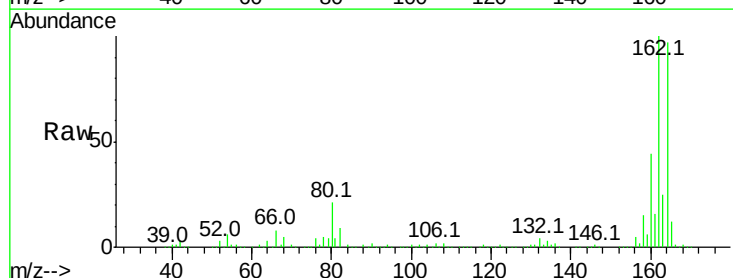
Manual Integrations
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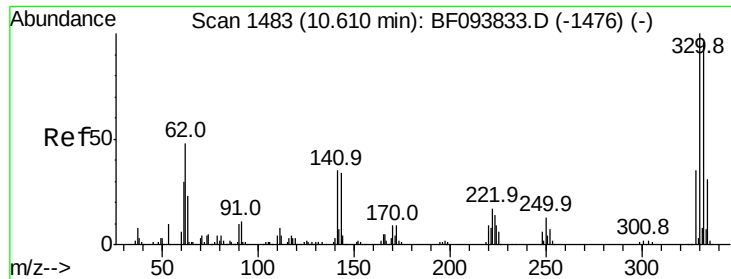
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#38
Acenaphthene-d10
Concen: 20.00 ng
RT: 9.56 min Scan# 1305
Delta R.T. -0.04 min
Lab File: BF094031.D
Acq: 29 Mar 2017 21:07

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
164	100		306418		
162	103.2	82.6	123.8		
160	45.9	36.2	54.2		





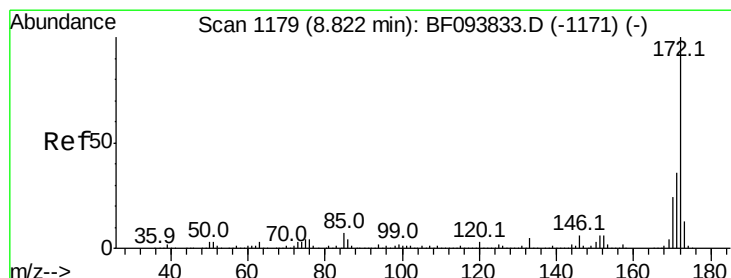
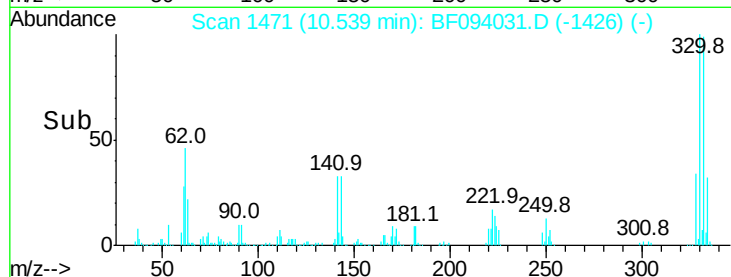
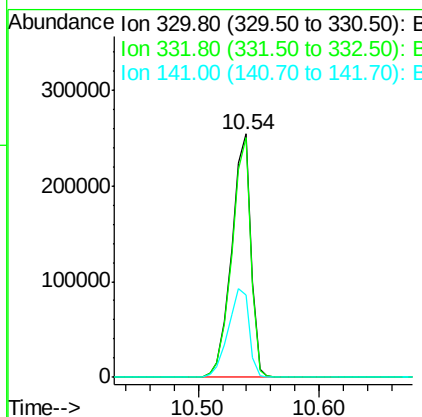
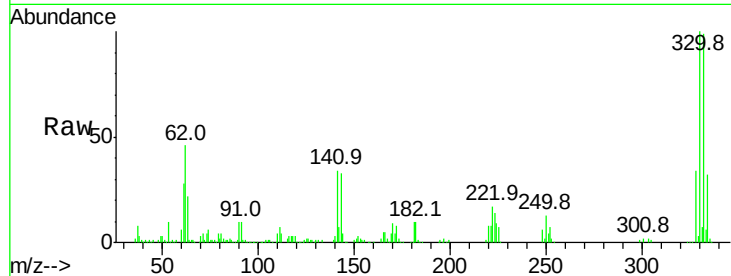
#41
 2,4,6-Tribromophenol
 Concen: 116.83 ng
 RT: 10.54 min Scan# 1471
 Delta R.T. -0.04 min
 Lab File: BF094031.D
 Acq: 29 Mar 2017 21:07

Instrument :
 BNA_F
 ClientSampleId :
 E2-AA9-WSW

Tot Ion	Ratio	Resp	Lower	Upper
330	100	282893		
332	97.2	76.6	115.0	
141	39.8	31.4	47.2	

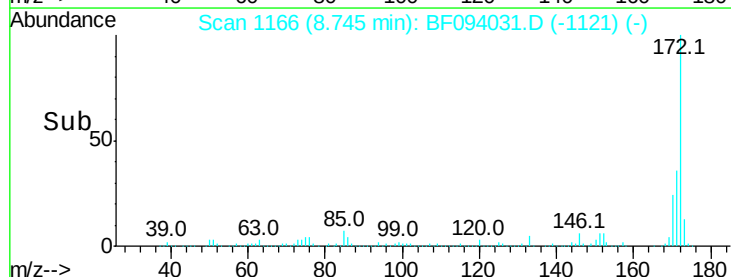
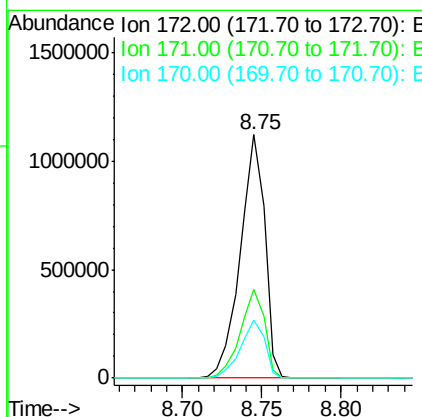
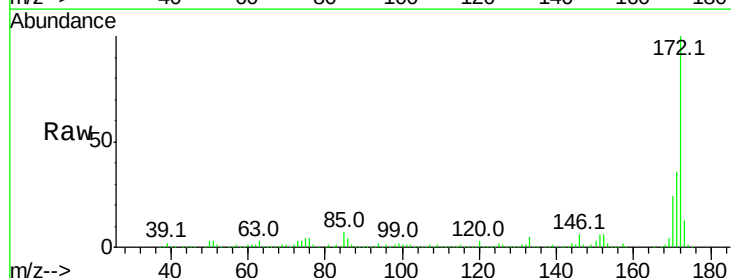
Manual Integrations
 APPROVED

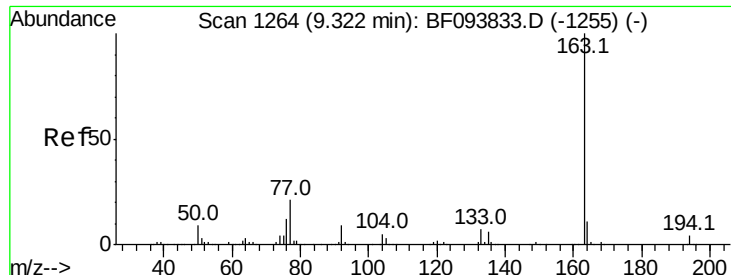
mohammad
 3/30/2017 2:31:47 PM



#44
 2-Fluorobiphenyl
 Concen: 59.65 ng
 RT: 8.75 min Scan# 1166
 Delta R.T. -0.04 min
 Lab File: BF094031.D
 Acq: 29 Mar 2017 21:07

Tgt Ion	Ratio	Resp	Lower	Upper
172	100	1198321		
171	36.3	29.6	44.4	
170	24.0	19.8	29.8	





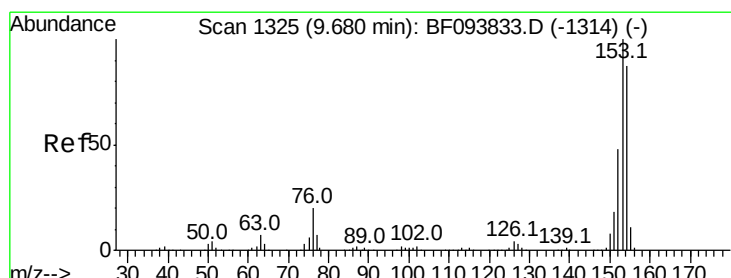
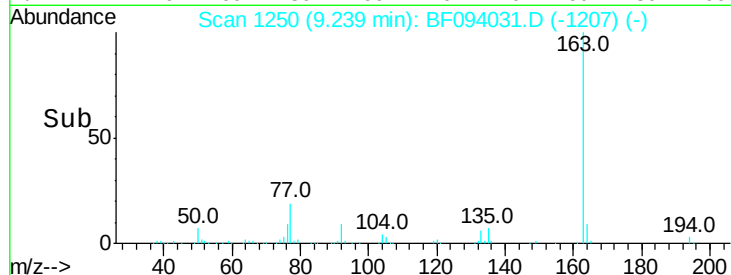
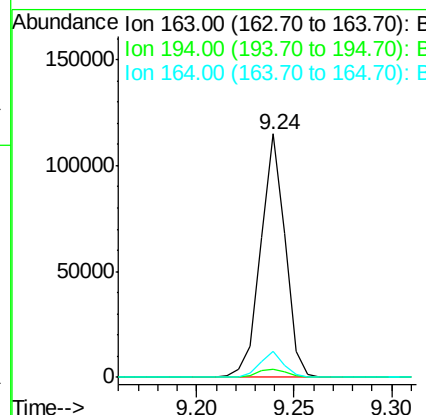
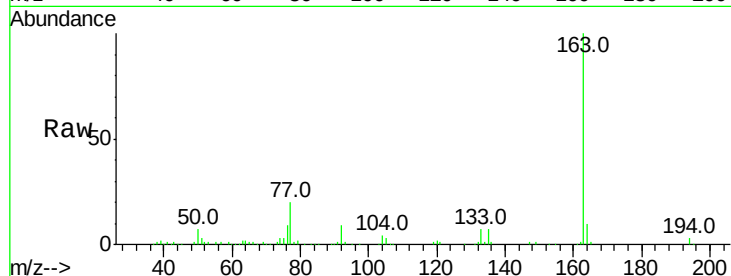
#49
Dimethylphthalate
Concen: 4.58 ng
RT: 9.24 min Scan# 1250
Delta R.T. -0.05 min
Lab File: BF094031.D
Acq: 29 Mar 2017 21:07

Instrument :
BNA_F
ClientSampleId :
E2-AA9-WSW

Tot Ion	Ratio	Resp	Lower	Upper
163	100			
194	3.3	2.6	4.0	
164	10.4	8.4	12.6	

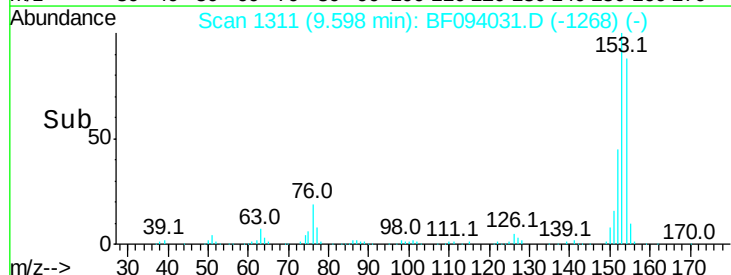
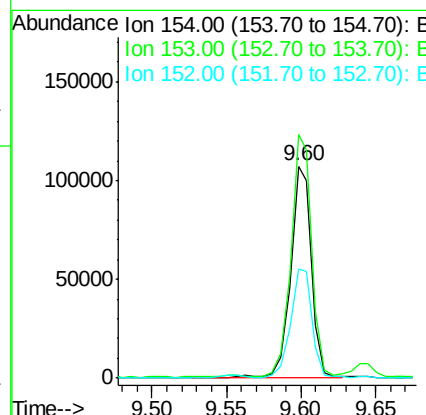
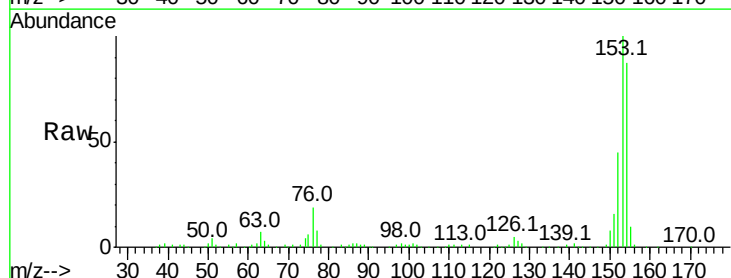
Manual Integrations
APPROVED

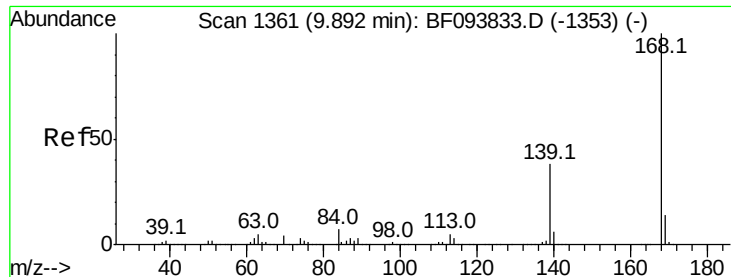
mohammad
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#51
Acenaphthene
Concen: 5.68 ng
RT: 9.60 min Scan# 1311
Delta R.T. -0.05 min
Lab File: BF094031.D
Acq: 29 Mar 2017 21:07

Tgt Ion	Ratio	Resp	Lower	Upper
154	100			
153	114.8	90.5	135.7	
152	51.2	43.6	65.4	





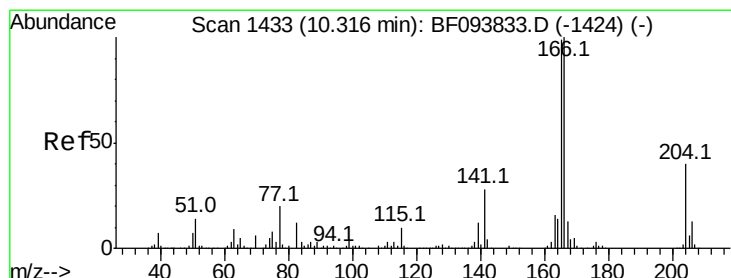
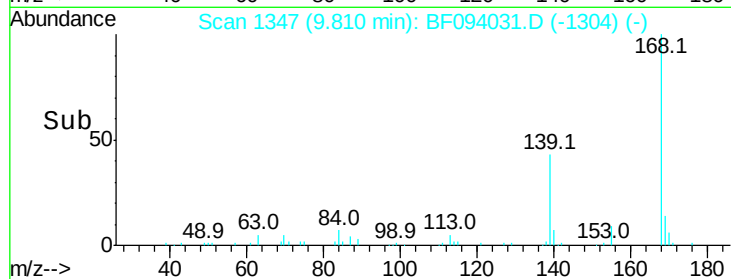
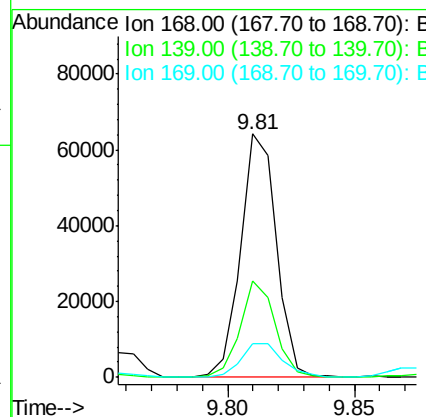
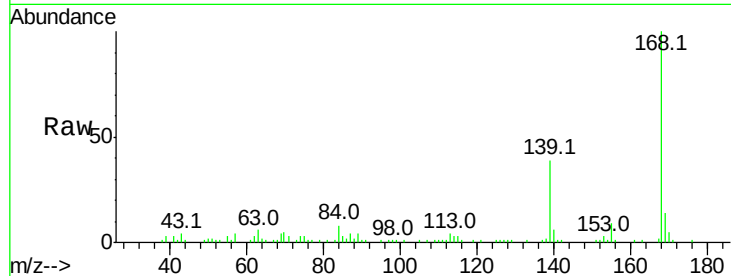
#54
Dibenzenofuran
Concen: 2.47 ng
RT: 9.81 min Scan# 1347
Delta R.T. -0.05 min
Lab File: BF094031.D
Acq: 29 Mar 2017 21:07

Instrument :
BNA_F
ClientSampleId :
E2-AA9-WSW

Tot Ion	Ratio	Lower	Upper
168	100		
139	39.5	30.6	45.8
169	14.1	10.8	16.2

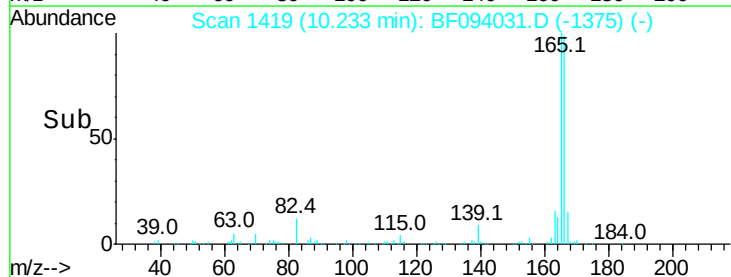
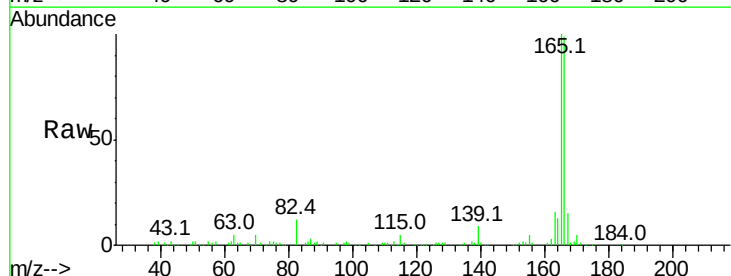
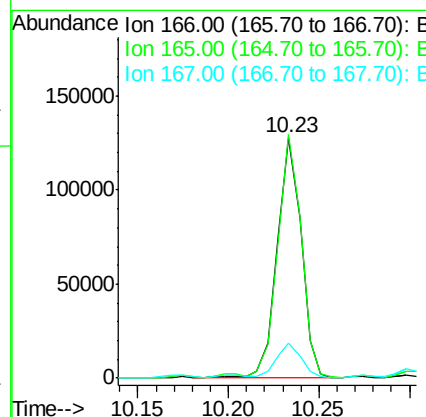
Manual Integrations
APPROVED

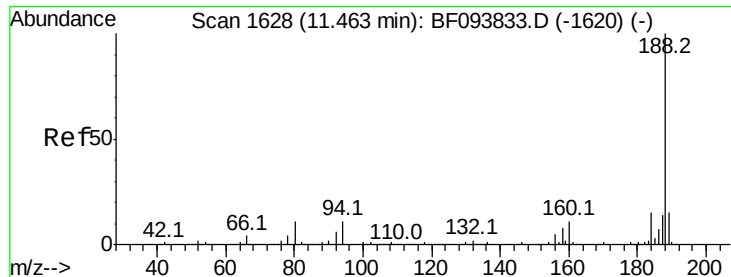
mohammad
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#57
Fluorene
Concen: 5.64 ng
RT: 10.23 min Scan# 1419
Delta R.T. -0.04 min
Lab File: BF094031.D
Acq: 29 Mar 2017 21:07

Tgt Ion	Ratio	Lower	Upper
166	100		
165	101.4	78.8	118.2
167	14.7	10.6	16.0





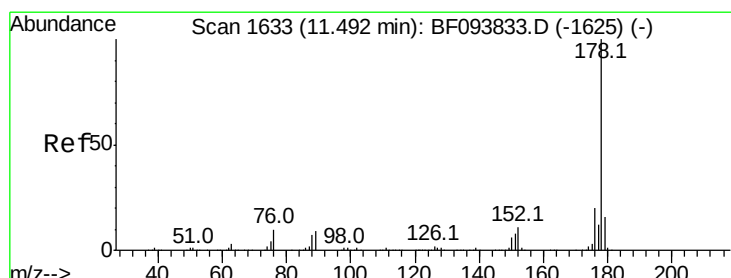
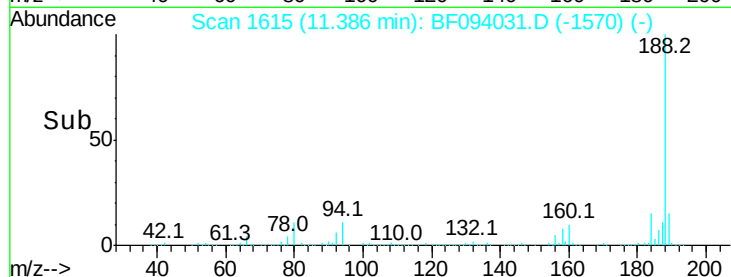
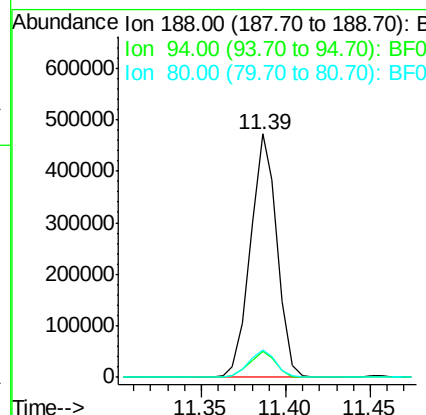
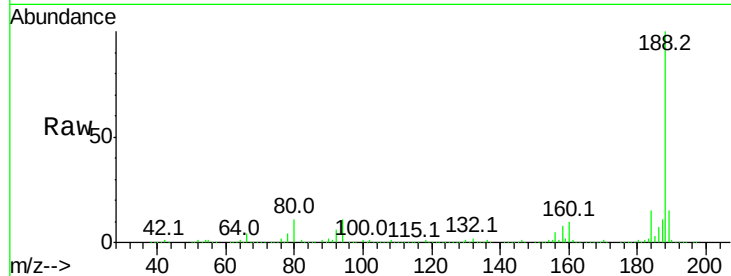
#63
Phenanthrene-d10
Concen: 20.00 ng
RT: 11.39 min Scan# 1615
Delta R.T. -0.04 min
Lab File: BF094031.D
Acq: 29 Mar 2017 21:07

Instrument :
BNA_F
ClientSampleId :
E2-AA9-WSW

Tot Ion	Ratio	Resp	Lower	Upper
188	100	515998		
94	10.9		9.4	14.2
80	11.4		10.2	15.2

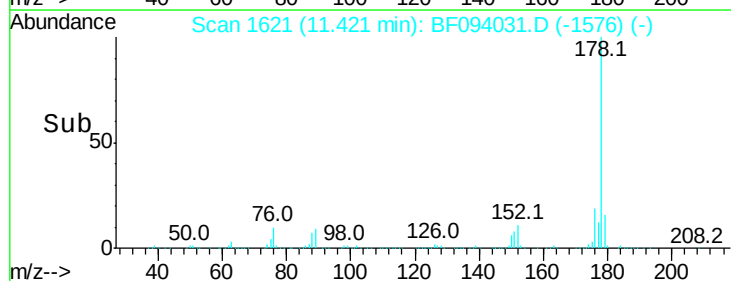
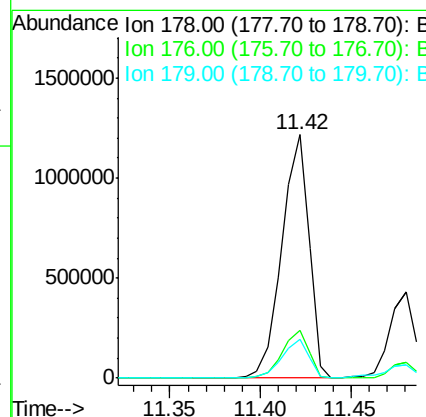
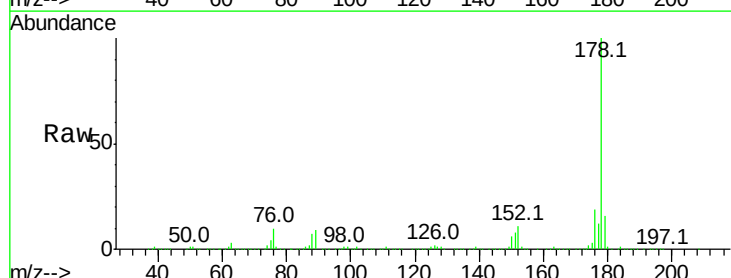
Manual Integrations
APPROVED

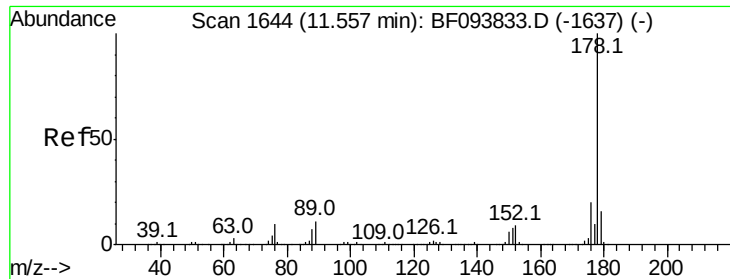
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#70
Phenanthrene
Concen: 44.31 ng
RT: 11.42 min Scan# 1621
Delta R.T. -0.04 min
Lab File: BF094031.D
Acq: 29 Mar 2017 21:07

Tgt Ion	Ratio	Resp	Lower	Upper
178	100	1271937		
176	19.4		16.2	24.4
179	16.1		12.6	19.0





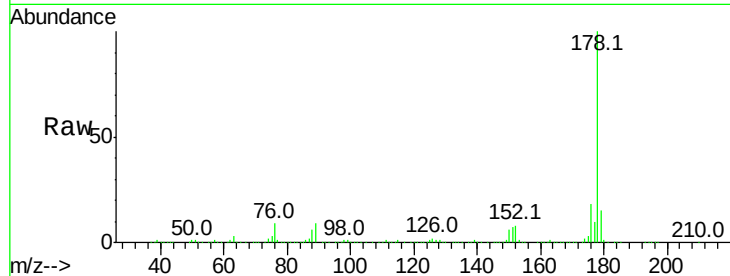
#71
 Anthracene
 Concen: 13.69 ng
 RT: 11.48 min Scan# 1631
 Delta R.T. -0.04 min
 Lab File: BF094031.D
 Acq: 29 Mar 2017 21:07

Instrument :
 BNA_F
 ClientSampleId :
 E2-AA9-WSW

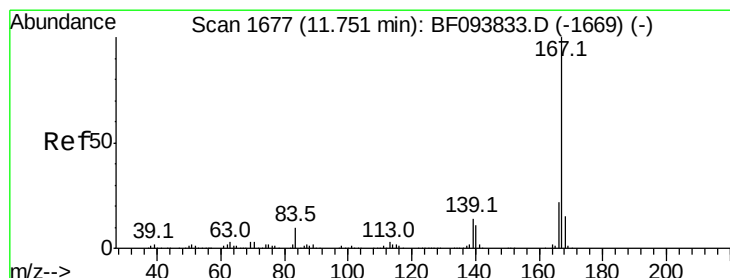
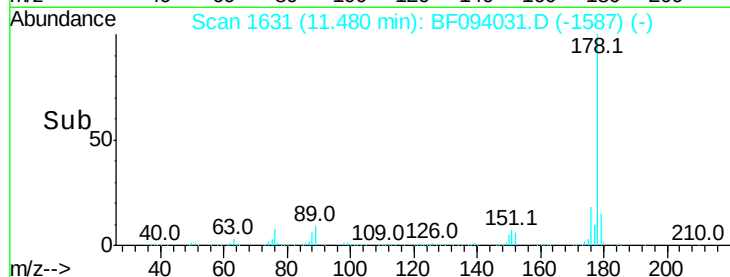
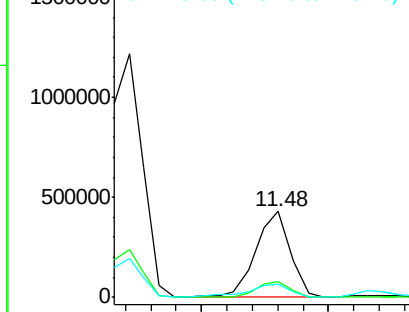
Tot Ion	Ratio	Lower	Upper
178	100		
176	17.9	15.8	23.8
179	15.0	12.7	19.1

Manual Integrations
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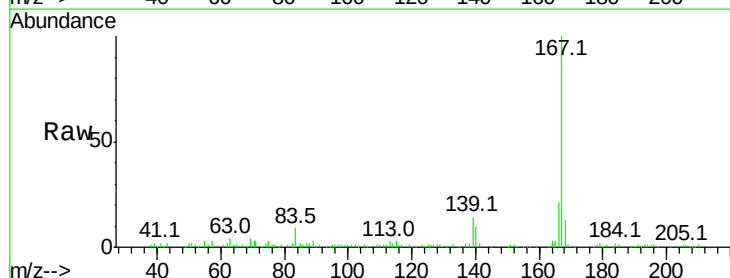


Abundance Ion 178.00 (177.70 to 178.70): E
 Ion 176.00 (175.70 to 176.70): E
 Ion 179.00 (178.70 to 179.70): E

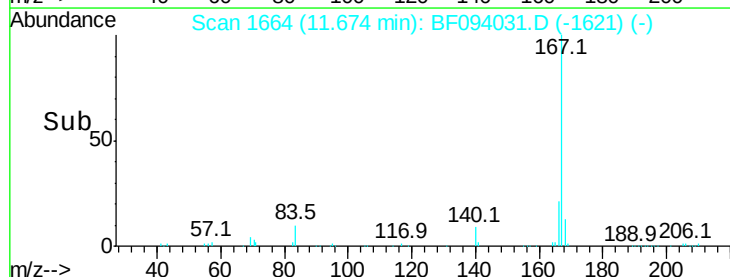
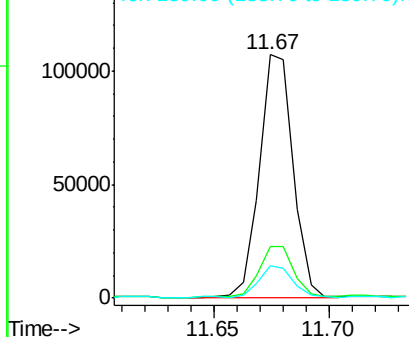


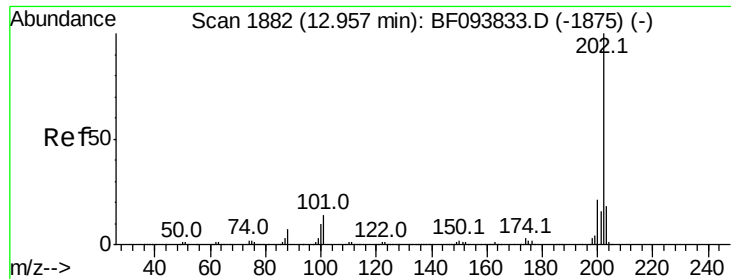
#72
 Carbazole
 Concen: 3.63 ng
 RT: 11.67 min Scan# 1664
 Delta R.T. -0.05 min
 Lab File: BF094031.D
 Acq: 29 Mar 2017 21:07

Tgt Ion	Ratio	Lower	Upper
167	100		
166	21.0	18.1	27.1
139	13.5	11.7	17.5



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: 61.75 ng

RT: 12.89 min Scan# 1871

Delta R.T. -0.03 min

Lab File: BF094031.D

Acq: 29 Mar 2017 21:07

Instrument :

BNA_F

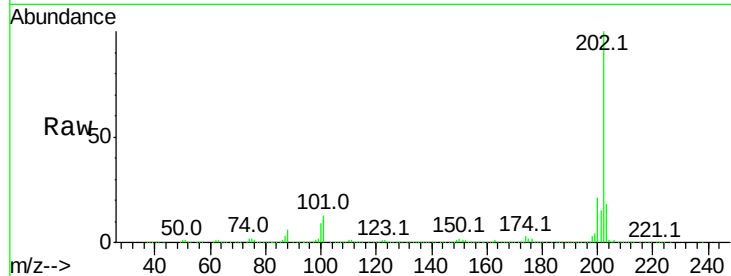
ClientSampleId :

E2-AA9-WSW

Tot Ion:	202	Resp:	1814971
Ion Ratio	Lower	Upper	
202	100		
101	13.2	0.0	33.2
203	17.8	0.0	38.1

Manual Integrations
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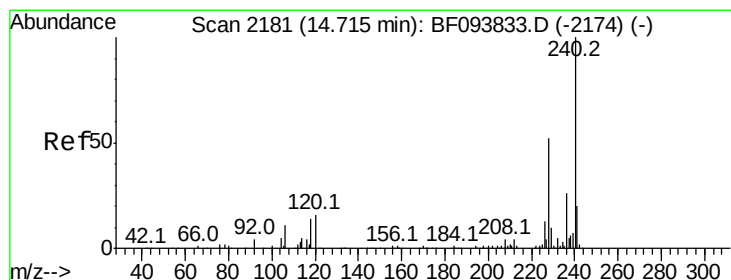
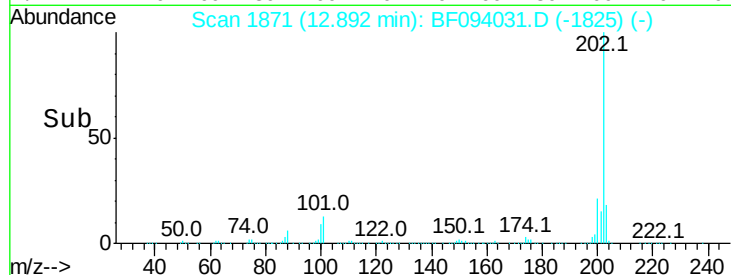
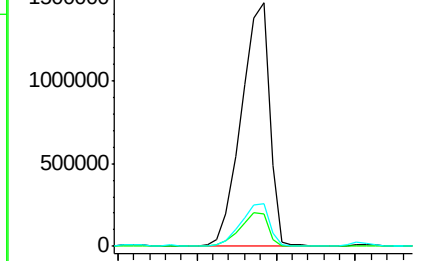
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Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E



#75

Chrysene-d12

Concen: 20.00 ng

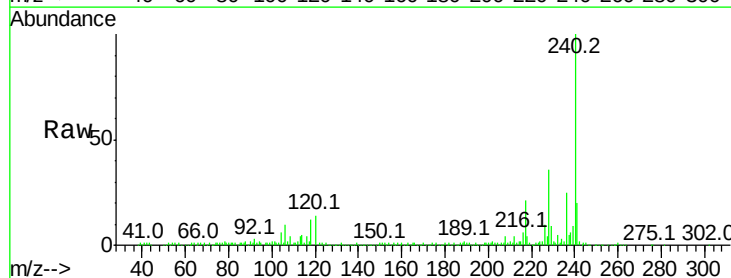
RT: 14.64 min Scan# 2169

Delta R.T. -0.04 min

Lab File: BF094031.D

Acq: 29 Mar 2017 21:07

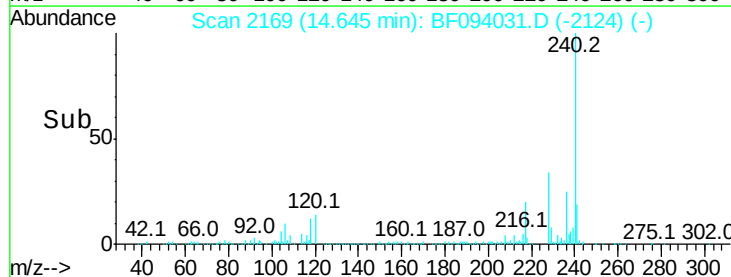
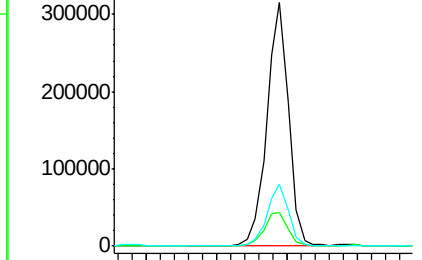
Tgt Ion:	240	Resp:	340887
Ion Ratio	Lower	Upper	
240	100		
120	13.8	5.8	8.8#
236	25.3	20.5	30.7

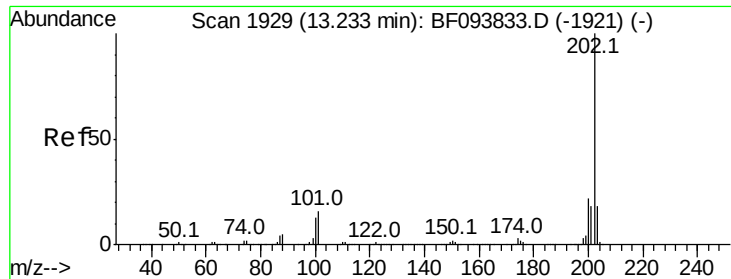


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





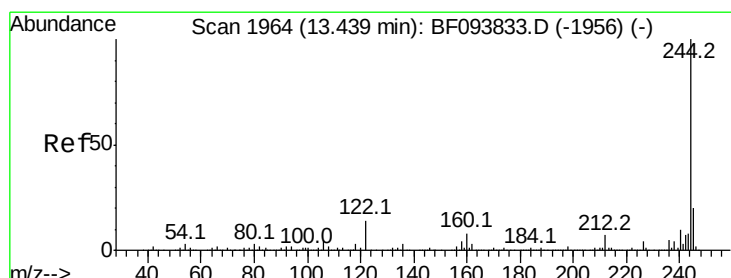
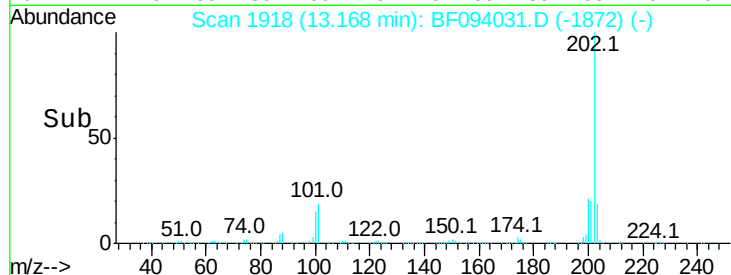
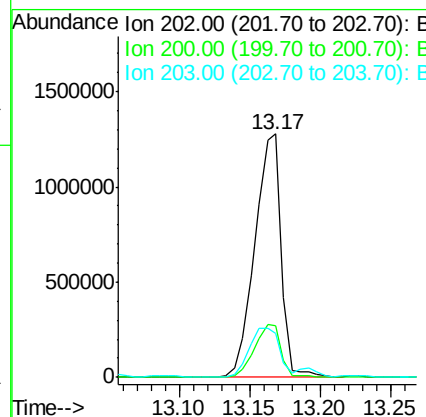
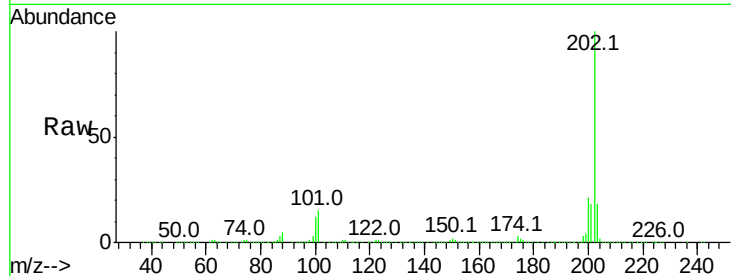
#77
Pvrene
Concen: 68.05 ng
RT: 13.17 min Scan# 1918
Delta R.T. -0.03 min
Lab File: BF094031.D
Acq: 29 Mar 2017 21:07

Instrument :
BNA_F
ClientSampleId :
E2-AA9-WSW

Tot Ion	Ratio	Lower	Upper
202	100		
200	21.4	17.6	26.4
203	18.1	14.4	21.6

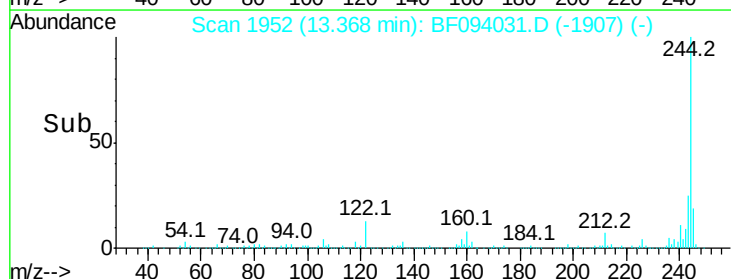
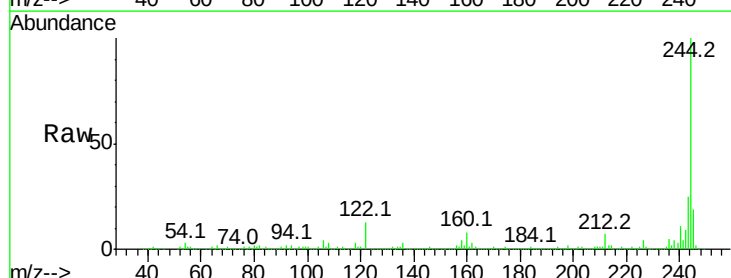
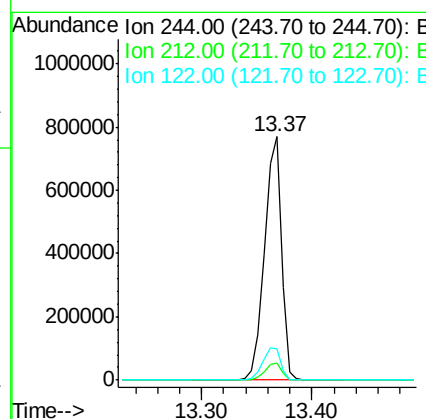
Manual Integrations
APPROVED

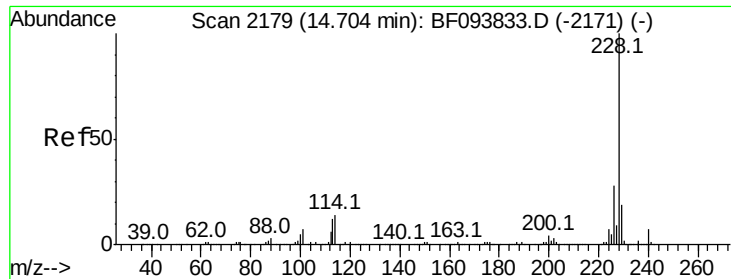
mohammad
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#78
Terphenyl-d14
Concen: 54.92 ng
RT: 13.37 min Scan# 1952
Delta R.T. -0.04 min
Lab File: BF094031.D
Acq: 29 Mar 2017 21:07

Tgt Ion	Ratio	Lower	Upper
244	100		
212	7.0	6.0	9.0
122	12.8	10.3	15.5





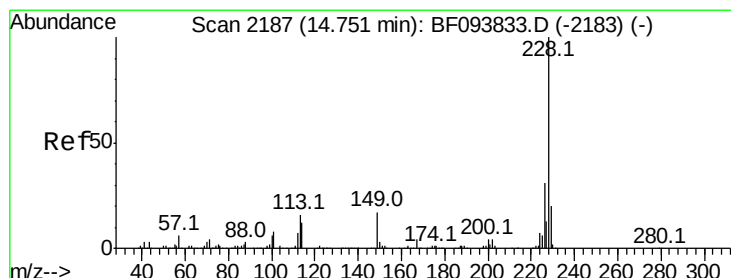
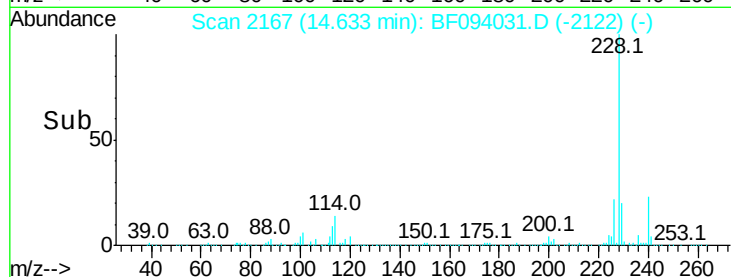
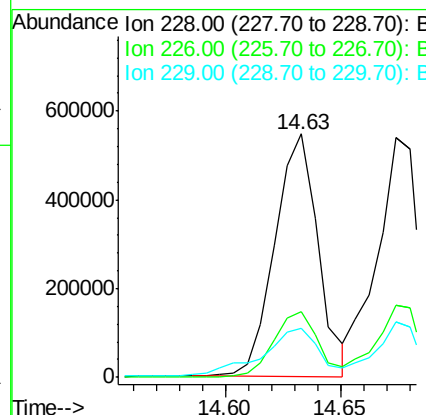
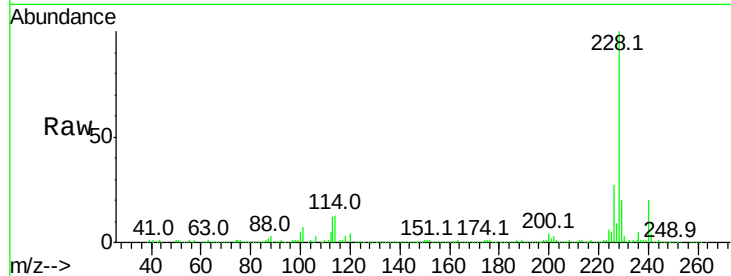
#80
Benzo(a)anthracene
Concen: 35.67 ng
RT: 14.63 min Scan# 2167
Delta R.T. -0.04 min
Lab File: BF094031.D
Acq: 29 Mar 2017 21:07

Instrument :
BNA_F
ClientSampleId :
E2-AA9-WSW

Tot Ion	Ratio	Lower	Upper
228	100		
226	26.9	22.6	33.8
229	20.3	16.3	24.5

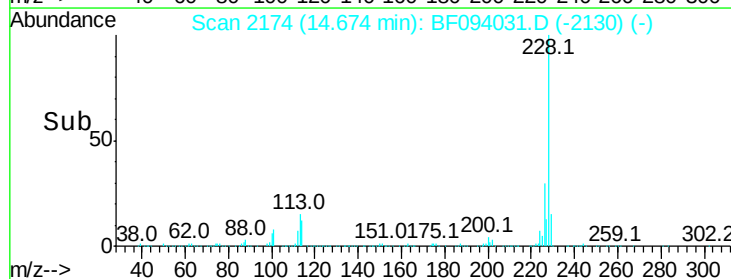
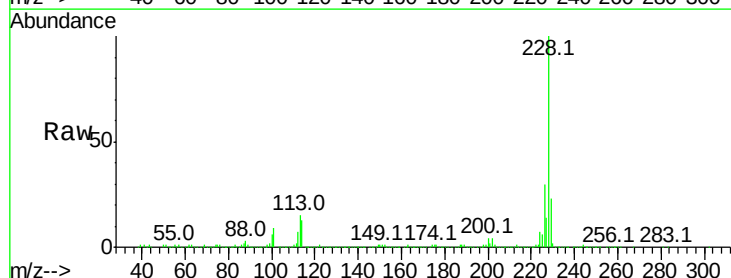
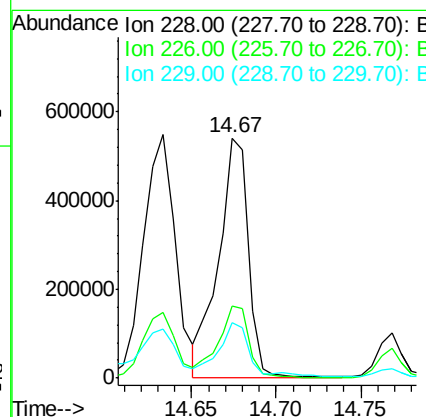
Manual Integrations
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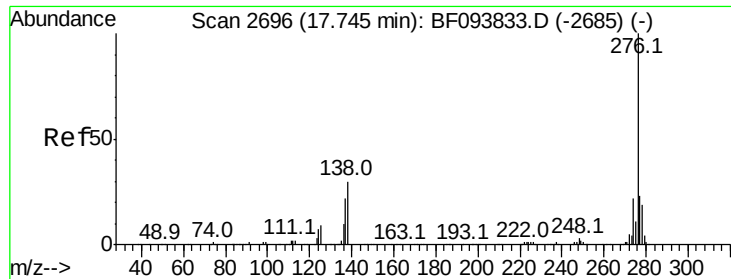
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#82
Chrysene
Concen: 35.86 ng
RT: 14.67 min Scan# 2174
Delta R.T. -0.04 min
Lab File: BF094031.D
Acq: 29 Mar 2017 21:07

Tgt Ion	Ratio	Lower	Upper
228	100		
226	30.0	24.9	37.3
229	23.2	15.8	23.6





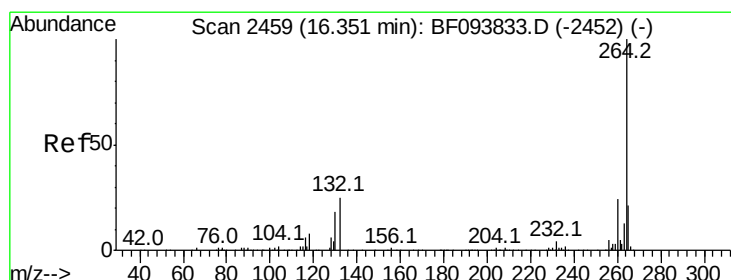
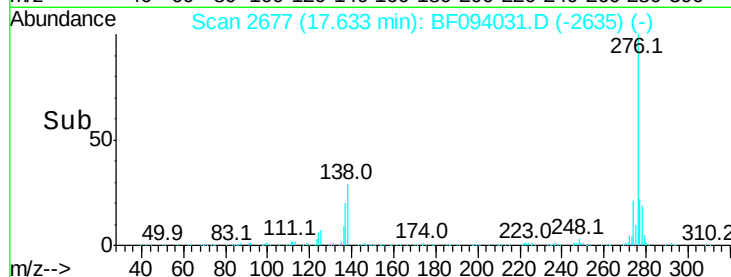
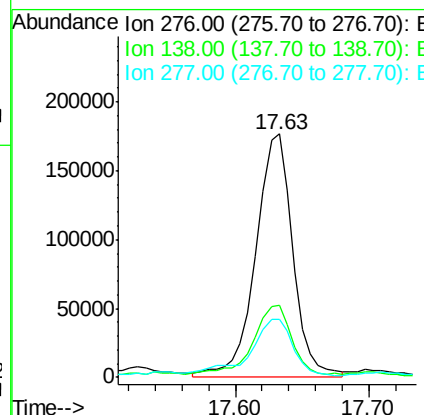
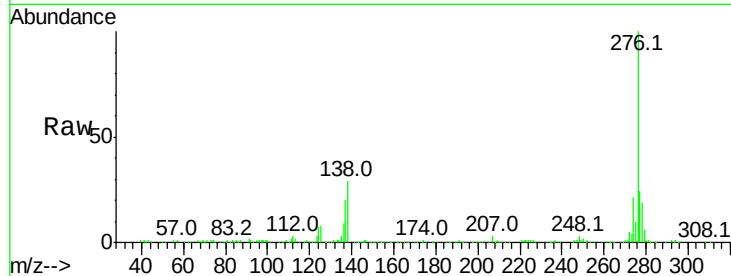
#85
 Indeno(1,2,3-cd)pyrene
 Concen: 21.08 ng
 RT: 17.63 min Scan# 2677
 Delta R.T. -0.05 min
 Lab File: BF094031.D
 Acq: 29 Mar 2017 21:07

Instrument :
 BNA_F
 ClientSampleId :
 E2-AA9-WSW

Tot Ion	Ratio	Lower	Upper
276	100		
138	29.0	27.8	41.6
277	28.0	20.2	30.4

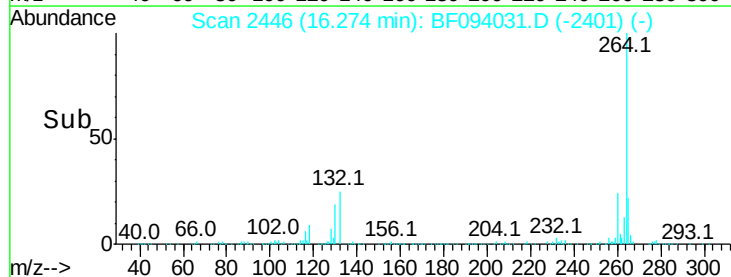
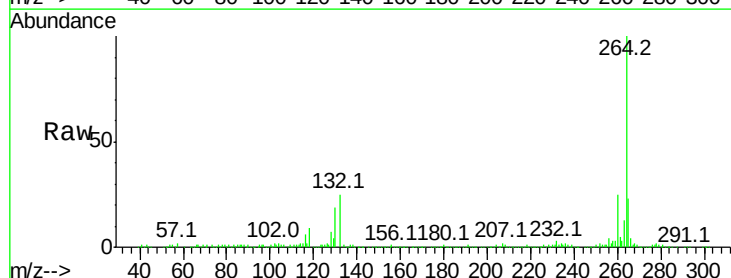
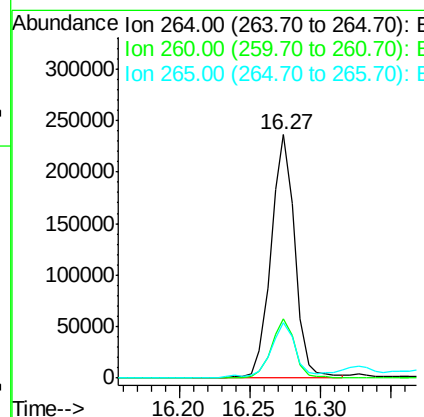
Manual Integrations
 APPROVED

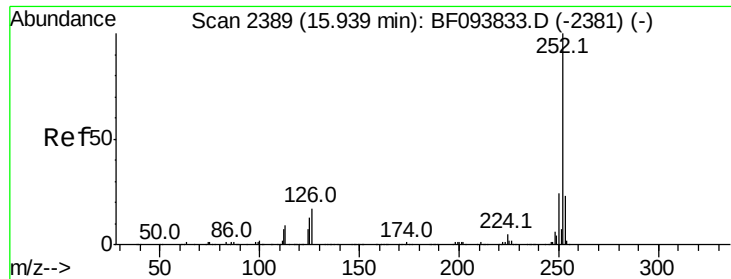
mohammad
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#86
 Perylene-d12
 Concen: 20.00 ng
 RT: 16.27 min Scan# 2446
 Delta R.T. -0.04 min
 Lab File: BF094031.D
 Acq: 29 Mar 2017 21:07

Tgt Ion	Ratio	Lower	Upper
264	100		
260	24.6	19.5	29.3
265	22.7	17.2	25.8





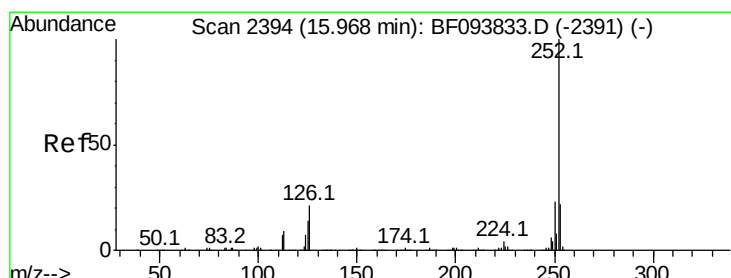
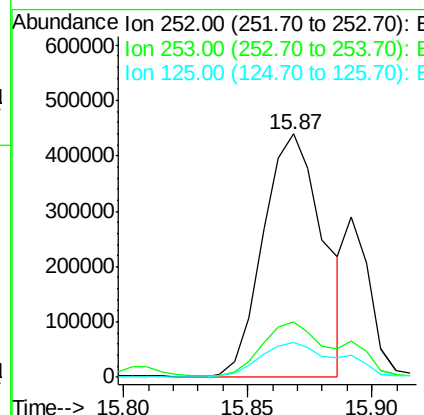
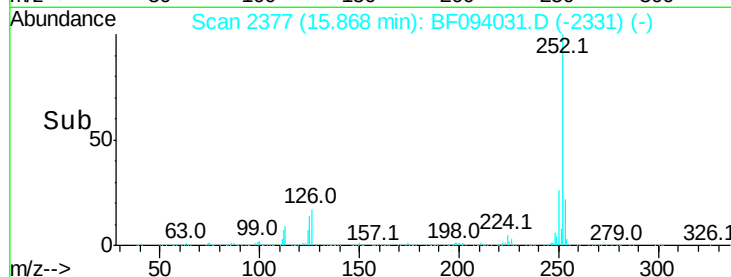
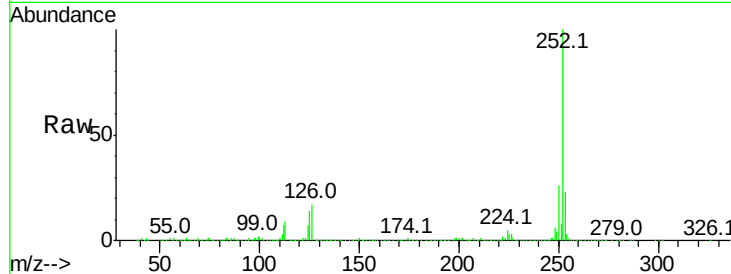
#87
Benzo(b)fluoranthene
Concen: 42.97 ng m
RT: 15.87 min Scan# 2377
Delta R.T. -0.03 min
Lab File: BF094031.D
Acq: 29 Mar 2017 21:07

Instrument :
BNA_F
ClientSampleId :
E2-AA9-WSW

Tot Ion	Ratio	Lower	Upper
252	100		
253	22.5	18.1	27.1
125	14.4	9.8	14.8

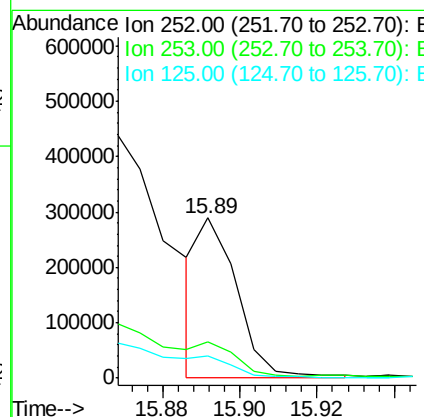
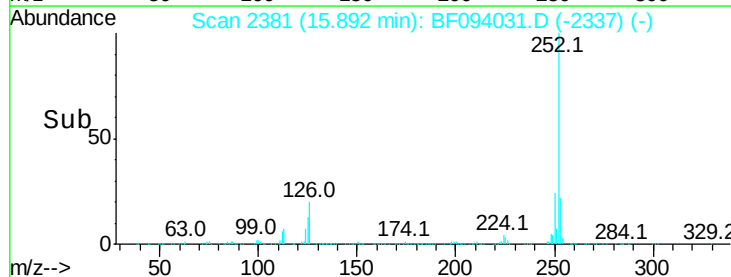
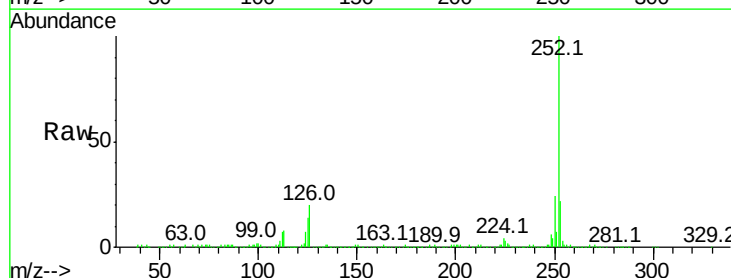
Manual Integrations
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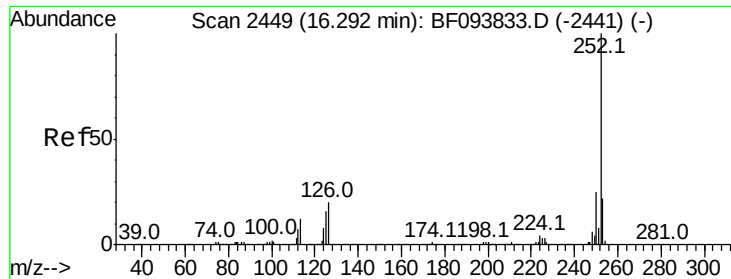
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#88
Benzo(k)fluoranthene
Concen: 12.18 ng m
RT: 15.89 min Scan# 2381
Delta R.T. -0.04 min
Lab File: BF094031.D
Acq: 29 Mar 2017 21:07

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.4	18.4	27.6
125	13.6	13.1	19.7





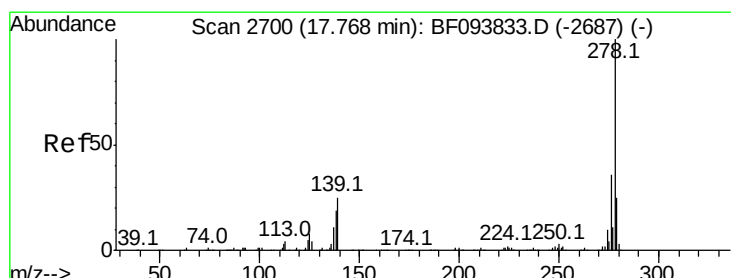
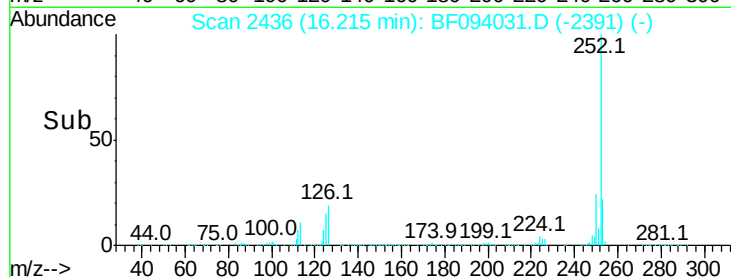
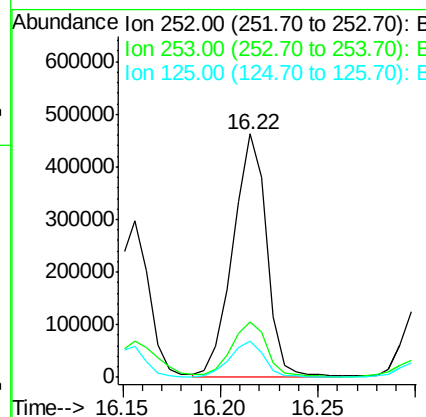
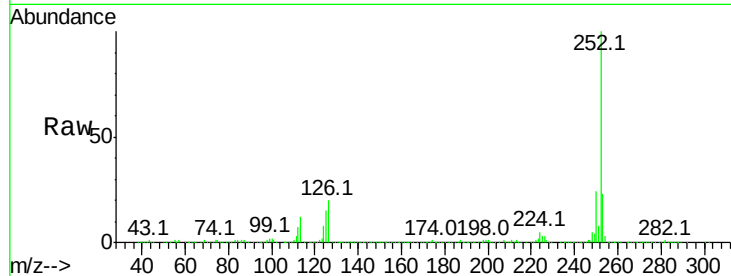
#89
Benzo(a)pyrene
Concen: 34.79 ng
RT: 16.22 min Scan# 2436
Delta R.T. -0.04 min
Lab File: BF094031.D
Acq: 29 Mar 2017 21:07

Instrument :
BNA_F
ClientSampleId :
E2-AA9-WSW

Tot Ion:	252	Resp:	550466
Ion Ratio	Lower	Upper	
252	100		
253	22.9	17.5	26.3
125	14.8	11.0	16.4

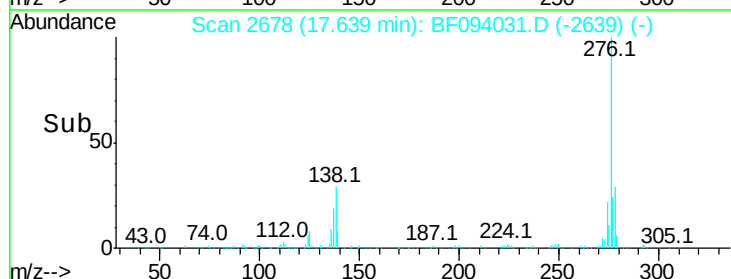
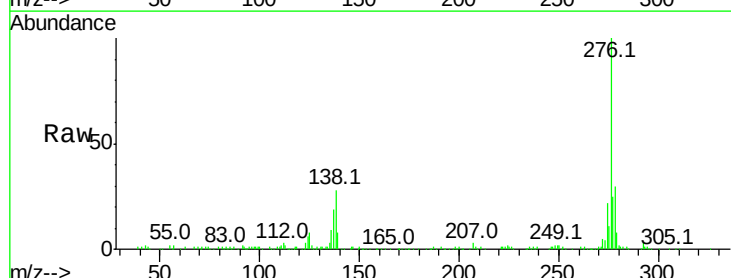
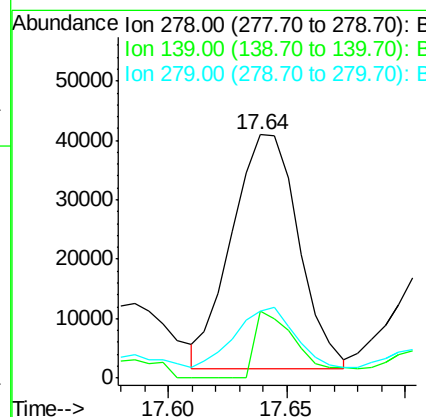
Manual Integrations
APPROVED

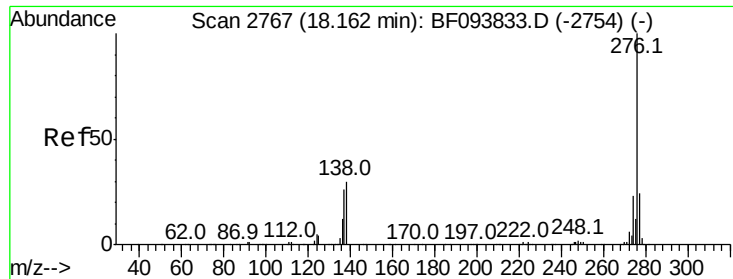
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#90
Dibenzo(a,h)anthracene
Concen: 5.80 ng m
RT: 17.64 min Scan# 2678
Delta R.T. -0.07 min
Lab File: BF094031.D
Acq: 29 Mar 2017 21:07

Tgt Ion:	278	Resp:	77652
Ion Ratio	Lower	Upper	
278	100		
139	27.7	16.6	24.8#
279	27.6	19.3	28.9





#91
 Benzo(a,h,i)perylene
 Concen: 24.20 ng
 RT: 18.03 min Scan# 2745
 Delta R.T. -0.06 min
 Lab File: BF094031.D
 Acq: 29 Mar 2017 21:07

Instrument :
 BNA_F
 ClientSampleId :
 E2-AA9-WSW

Tot Ion	Ratio	Lower	Upper
276	100		
277	22.8	18.6	28.0
138	32.5	25.4	38.0

Manual Integrations
 APPROVED

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