

Data Path : Z:\HPCHEM1\BNA F\DATA\BF032917\
 Data File : BF094048.D
 Acq On : 30 Mar 2017 6:46
 Operator : SJ/MA
 Sample : I2443-11
 Misc :
 ALS Vial : 30 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 E2-AA9-SSW

Manual Integrations
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Quant Time: Mar 30 07:19:54 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	164655	20.00	ng	-0.03
21) Naphthalene-d8	7.43	136	630638	20.00	ng	-0.03
38) Acenaphthene-d10	9.57	164	288482	20.00	ng	-0.03
63) Phenanthrene-d10	11.40	188	462422	20.00	ng	-0.02
75) Chrysene-d12	14.66	240	285311	20.00	ng	-0.02
86) Perylene-d12	16.29	264	276363	20.00	ng	-0.02
System Monitoring Compounds						
5) 2-Fluorophenol	4.46	112	1087000	111.50	ng	-0.01
7) Phenol-d6	5.53	99	1333603	110.58	ng	-0.02
23) Nitrobenzene-d5	6.57	82	599823	54.28	ng	-0.04
41) 2,4,6-Tribromophenol	10.55	330	192092	84.26	ng	-0.03
44) 2-Fluorobiphenyl	8.75	172	1296772	68.56	ng	-0.03
78) Terphenyl-d14	13.37	244	849723	66.76	ng	-0.03
Target Compounds						Qvalue
20) 3+4-Methylphenols	6.40	107	41496	3.73	ng	# 57
29) 2,4-Dichlorophenol	7.26	162	59430	7.10	ng	95
31) Naphthalene	7.45	128	310865	10.25	ng	99
37) 2-Methylnaphthalene	8.29	142	125641	6.22	ng	99
49) Dimethylphthalate	9.25	163	97148	4.74	ng	99
51) Acenaphthene	9.61	154	352442	19.95	ng	99
54) Dibenzofuran	9.82	168	296999	12.35	ng	98
57) Fluorene	10.25	166	504639	25.31	ng	99
70) Phenanthrene	11.44	178	3306364	128.53	ng	99
71) Anthracene	11.49	178	1171790	44.24	ng	99
72) Carbazole	11.69	167	402923	14.84	ng	98
74) Fluoranthene	12.91	202	2916980	110.74	ng	99
77) Pyrene	13.19	202	2633903	127.20	ng	99
80) Benzo(a)anthracene	14.64	228	1195255	71.84	ng	100
82) Chrysene	14.69	228	1097749	71.10	ng	97
85) Indeno(1,2,3-cd)pyrene	17.66	276	443670	33.18	ng	95
87) Benzo(b)fluoranthene	15.89	252	1100782m	64.98	ng	
88) Benzo(k)fluoranthene	15.91	252	438911m	26.48	ng	
89) Benzo(a)pyrene	16.23	252	884873	56.72	ng	96
90) Dibenzo(a,h)anthracene	17.67	278	110639	8.37	ng	95
91) Benzo(g,h,i)perylene	18.06	276	390214	29.31	ng	99

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

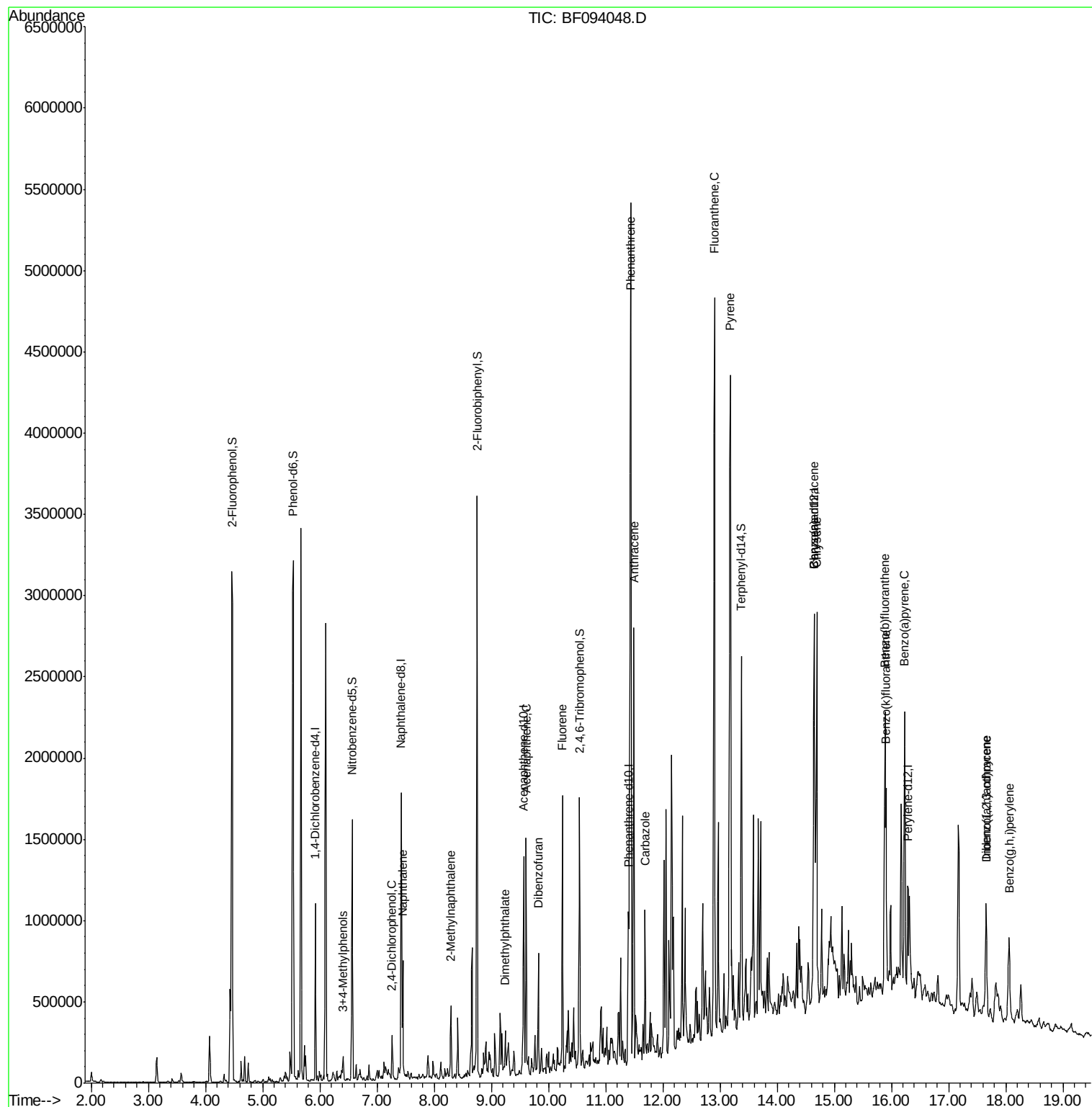
Data Path : Z:\HPCHEM1\BNA F\DATA\BF032917\
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ALS Vial : 30 Sample Multiplier: 1

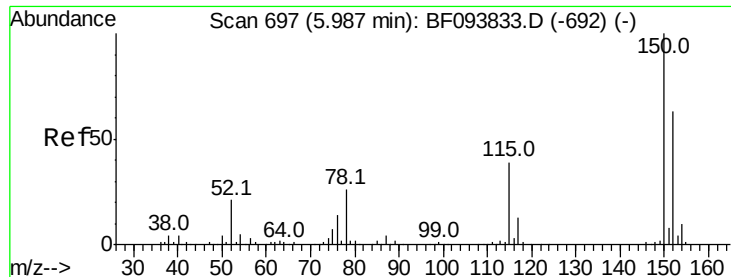
Instrument :
BNA_F
ClientSampleId :
E2-AA9-SSW

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#1

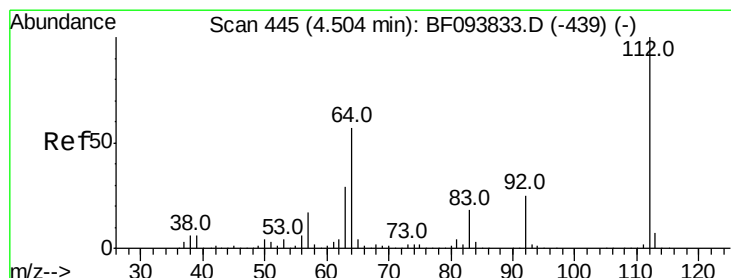
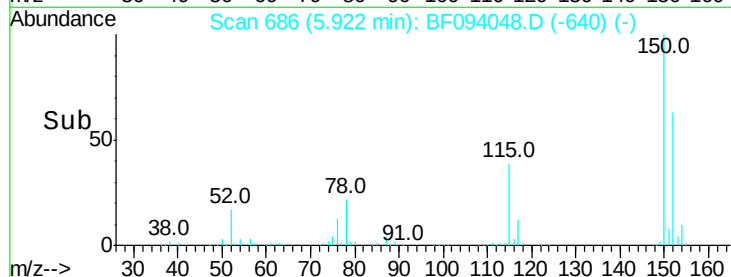
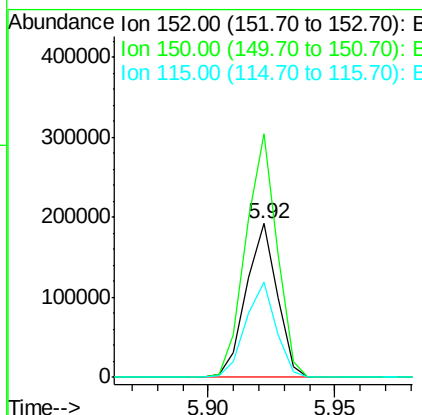
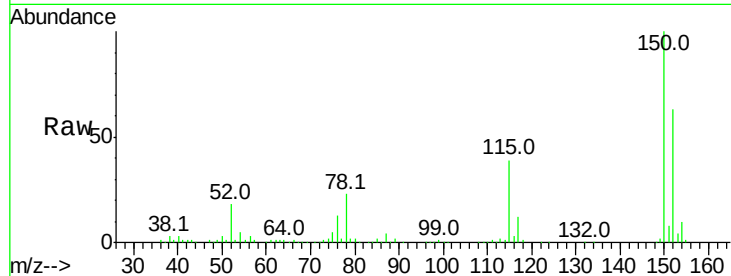
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 5.92 min Scan# 686
Delta R.T. -0.03 min
Lab File: BF094048.D
Acq: 30 Mar 2017 6:46

Instrument :
BNA_F
ClientSampleId :
E2-AA9-SSW

Tot Ion	Ratio	Lower	Upper
152	100		
150	158.2	126.2	189.2
115	61.4	52.2	78.2

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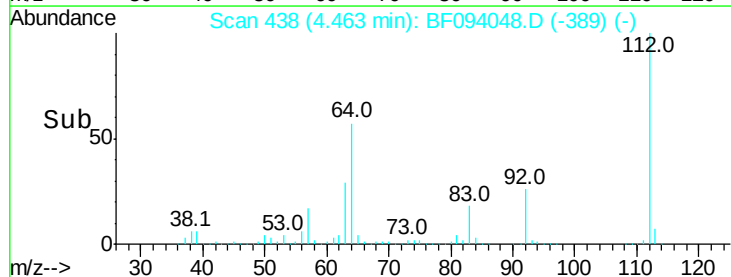
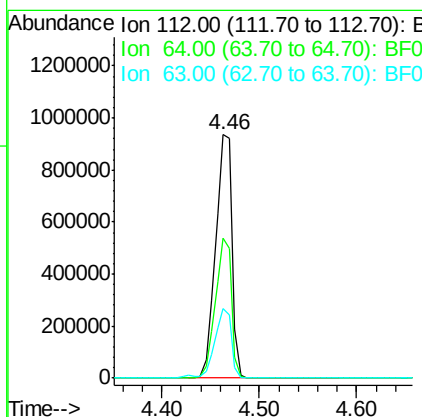
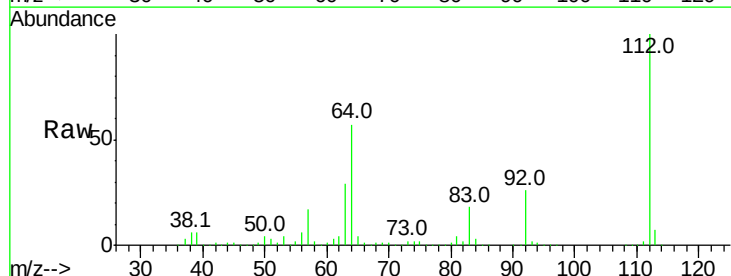
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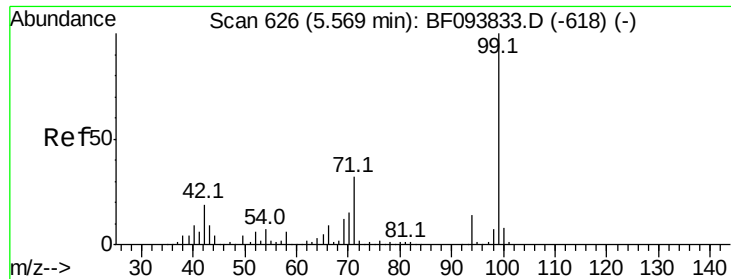


#5

2-Fluorophenol
Concen: 111.50 ng
RT: 4.46 min Scan# 438
Delta R.T. -0.01 min
Lab File: BF094048.D
Acq: 30 Mar 2017 6:46

Tgt Ion	Ratio	Lower	Upper
112	100		
64	57.2	46.0	69.0
63	28.8	23.4	35.0





#7

Phenol-d6

Concen: 110.58 ng

RT: 5.53 min Scan# 620

Delta R.T. -0.02 min

Lab File: BF094048.D

Acq: 30 Mar 2017 6:46

Instrument :

BNA_F

ClientSampled :

E2-AA9-SSW

Tot Ion: 99 Resp: 1333603

Ion Ratio Lower Upper

99 100

42 18.1 13.5 20.3

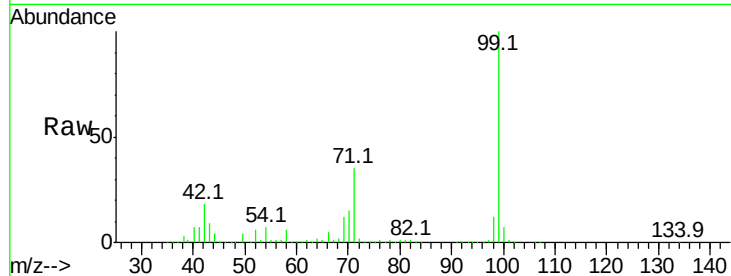
71 35.1 24.5 36.7

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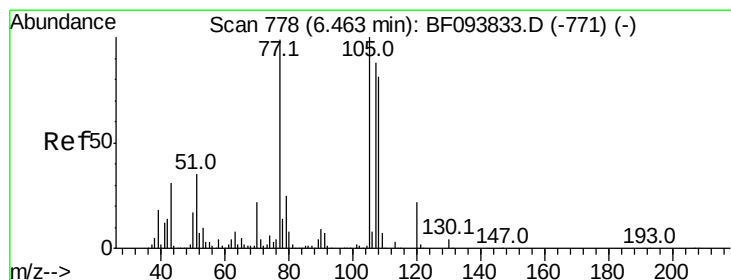
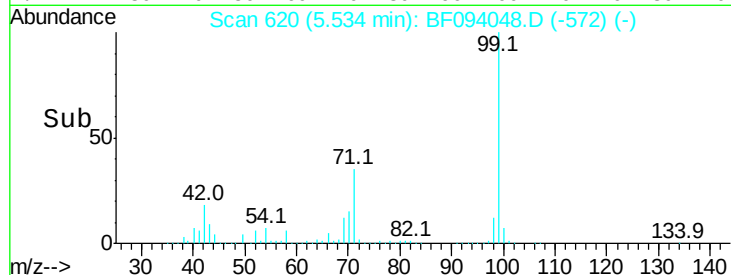
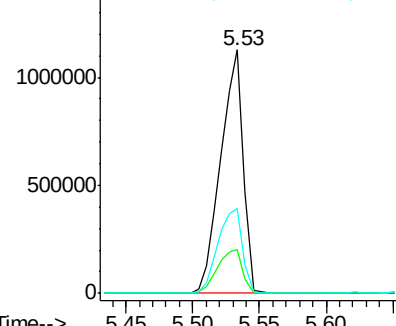
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Abundance Ion 99.00 (98.70 to 99.70): BF0

Ion 42.00 (41.70 to 42.70): BF0

Ion 71.00 (70.70 to 71.70): BF0



#20

3+4-Methylphenols

Concen: 3.73 ng

RT: 6.40 min Scan# 768

Delta R.T. -0.03 min

Lab File: BF094048.D

Acq: 30 Mar 2017 6:46

Tgt Ion: 107 Resp: 41496

Ion Ratio Lower Upper

107 100

108 82.5 71.0 111.0

77 28.7 90.5 130.5#

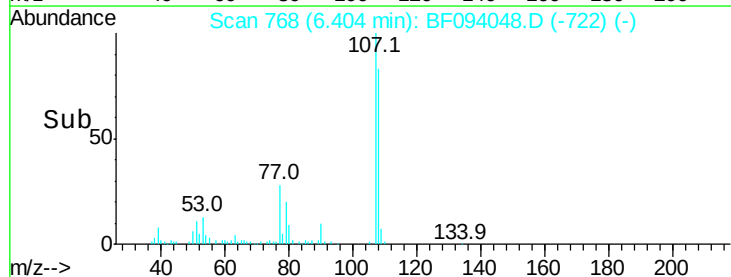
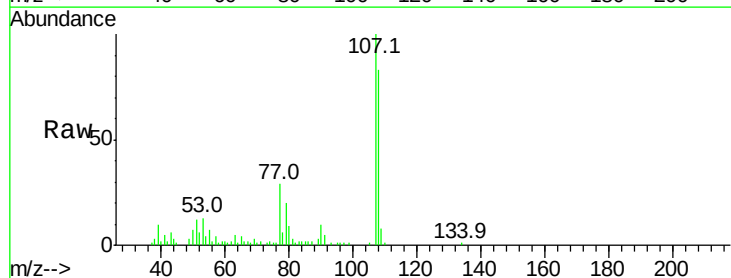
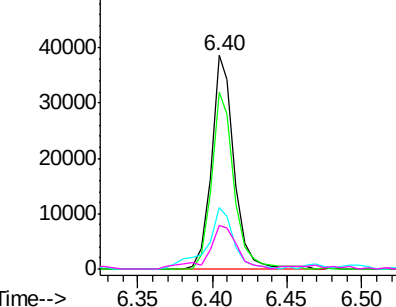
79 20.5 8.4 48.4

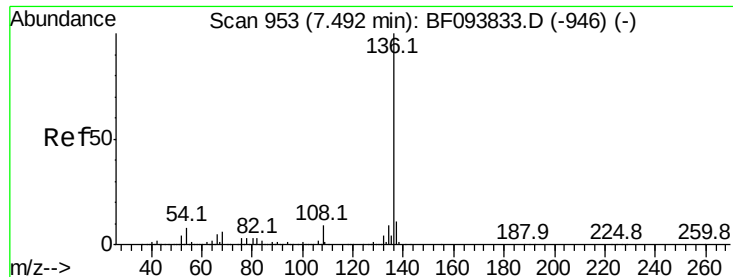
Abundance Ion 107.00 (106.70 to 107.70): E

Ion 108.00 (107.70 to 108.70): E

Ion 77.00 (76.70 to 77.70): BF0

Ion 79.00 (78.70 to 79.70): BF0





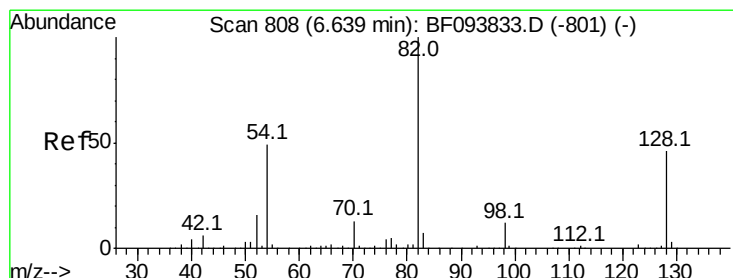
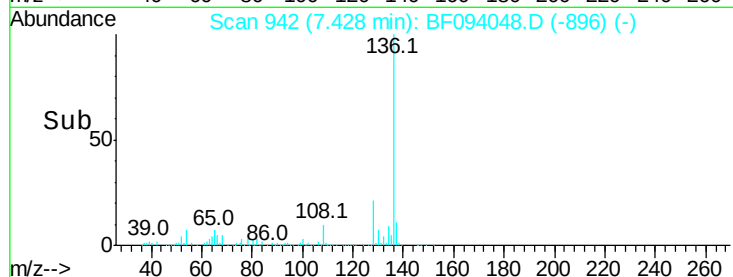
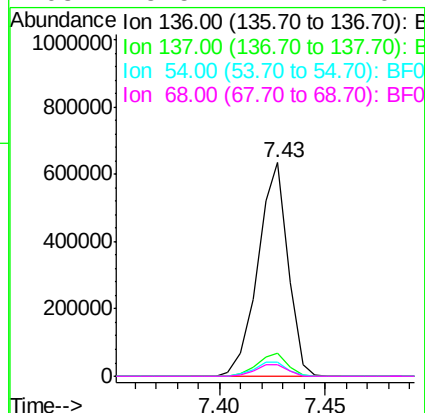
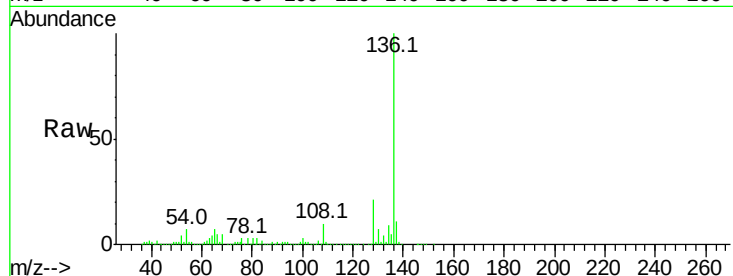
#21
Naphthalene-d8
Concen: 20.00 ng
RT: 7.43 min Scan# 942
Delta R.T. -0.03 min
Lab File: BF094048.D
Acq: 30 Mar 2017 6:46

Instrument :
BNA_F
ClientSampleId :
E2-AA9-SSW

Tot Ion	Ratio	Resp Lower	Upper
136	100		
137	10.8	8.5	12.7
54	6.8	4.9	7.3
68	5.5	4.1	6.1

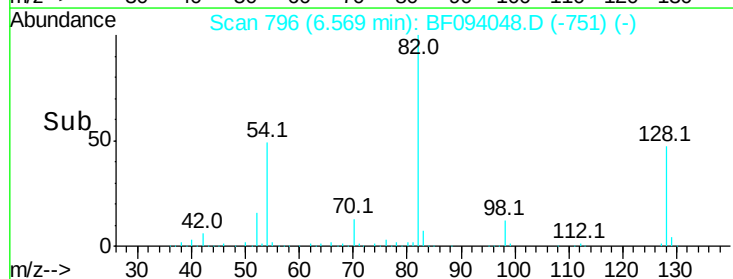
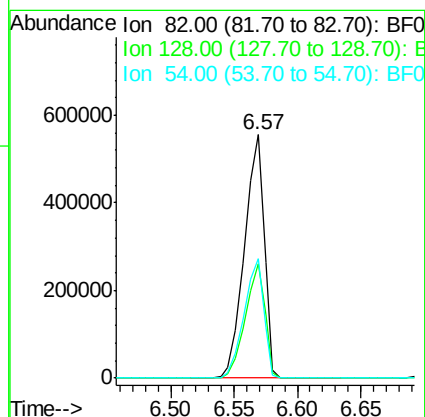
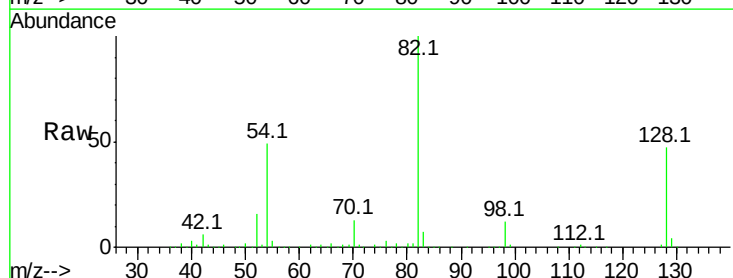
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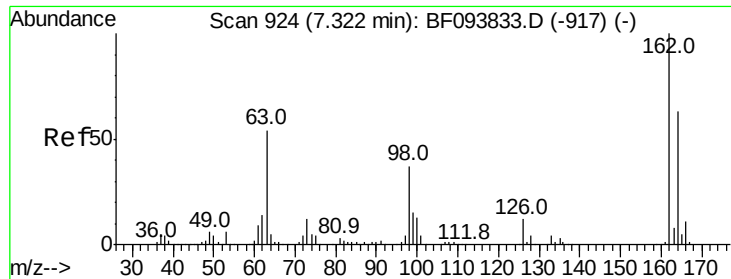
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#23
Nitrobenzene-d5
Concen: 54.28 ng
RT: 6.57 min Scan# 796
Delta R.T. -0.04 min
Lab File: BF094048.D
Acq: 30 Mar 2017 6:46

Tgt Ion	Ratio	Resp Lower	Upper
82	100		
128	47.1	34.0	51.0
54	48.9	42.2	63.2





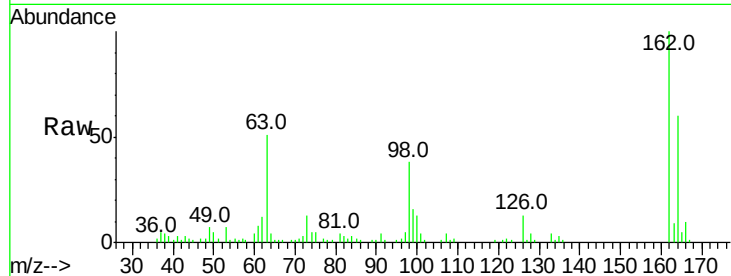
#29
2,4-Dichlorophenol
Concen: 7.10 ng
RT: 7.26 min Scan# 914
Delta R.T. -0.03 min
Lab File: BF094048.D
Acq: 30 Mar 2017 6:46

Instrument :
BNA_F
ClientSampleId :
E2-AA9-SSW

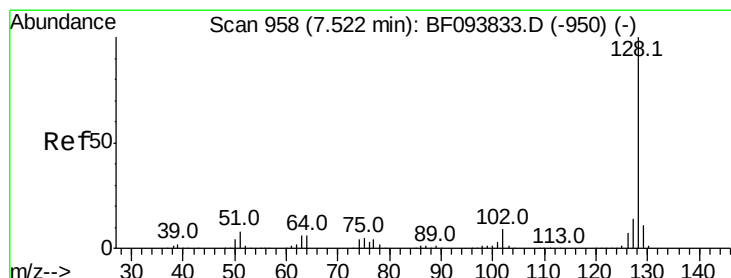
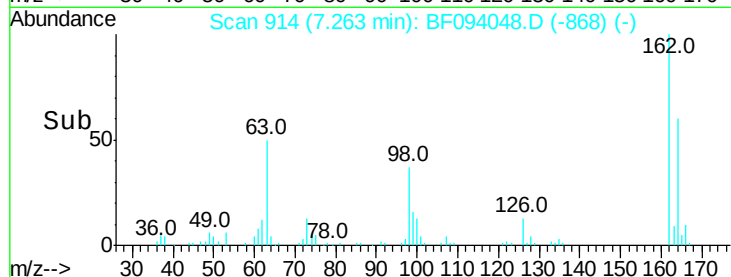
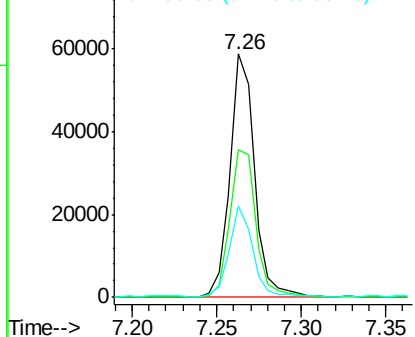
Tot Ion	Ratio	Resp	Lower	Upper
162	100	59430		
164	60.5		44.6	84.6
98	37.8		14.8	54.8

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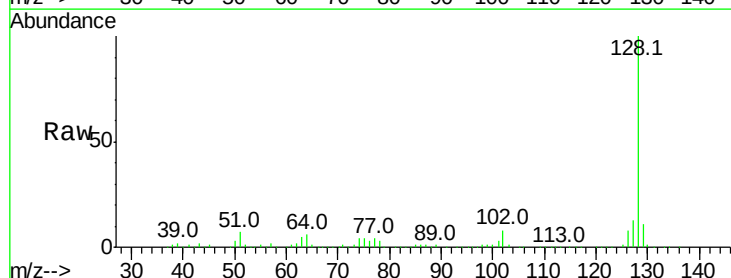


Abundance Ion 162.00 (161.70 to 162.70): E
Ion 164.00 (163.70 to 164.70): E
Ion 98.00 (97.70 to 98.70): BF0

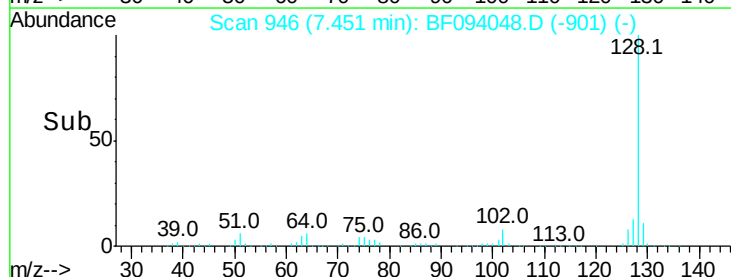
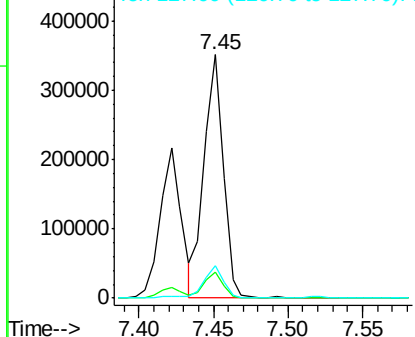


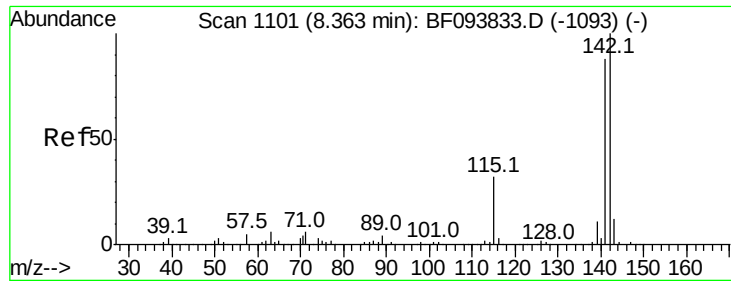
#31
Naphthalene
Concen: 10.25 ng
RT: 7.45 min Scan# 946
Delta R.T. -0.04 min
Lab File: BF094048.D
Acq: 30 Mar 2017 6:46

Tgt Ion	Ratio	Resp	Lower	Upper
128	100	310865		
129	10.7		9.0	13.6
127	13.3		10.8	16.2



Abundance Ion 128.00 (127.70 to 128.70): E
Ion 129.00 (128.70 to 129.70): E
Ion 127.00 (126.70 to 127.70): E





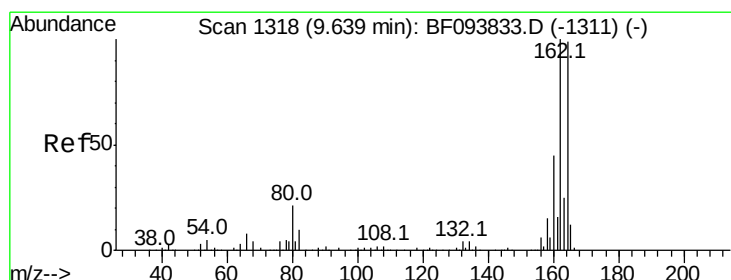
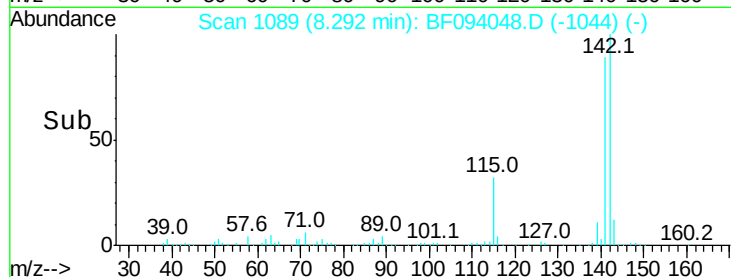
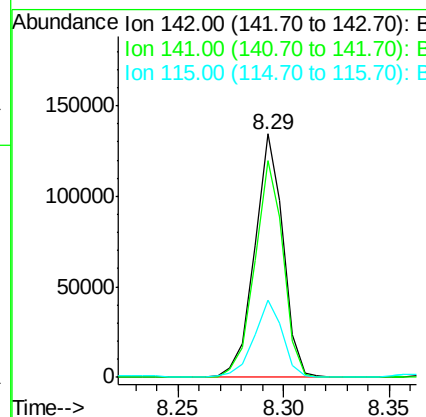
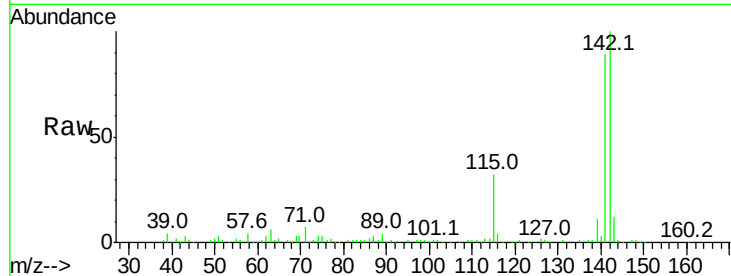
#37
2-Methylnaphthalene
Concen: 6.22 ng
RT: 8.29 min Scan# 1089
Delta R.T. -0.04 min
Lab File: BF094048.D
Acq: 30 Mar 2017 6:46

Instrument :
BNA_F
ClientSampleId :
E2-AA9-SSW

Tot Ion	Ratio	Lower	Upper
142	100		
141	89.1	71.3	106.9
115	31.9	27.1	40.7

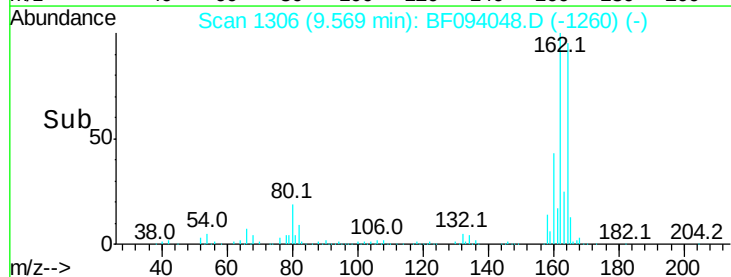
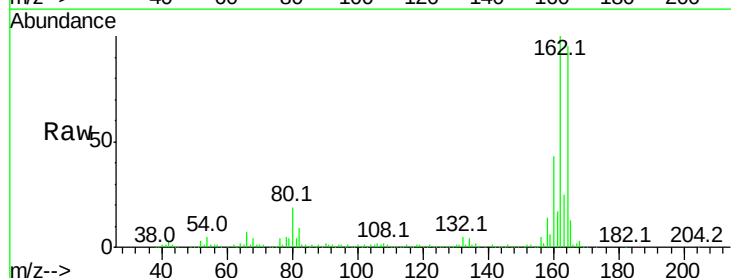
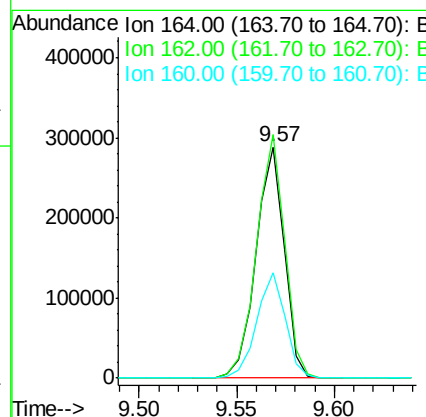
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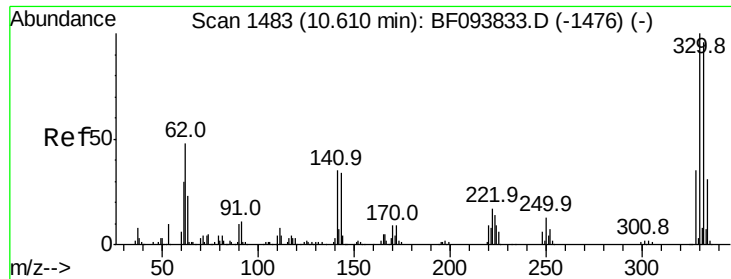
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#38
Acenaphthene-d10
Concen: 20.00 ng
RT: 9.57 min Scan# 1306
Delta R.T. -0.03 min
Lab File: BF094048.D
Acq: 30 Mar 2017 6:46

Tgt Ion	Ratio	Lower	Upper
164	100		
162	105.4	82.6	123.8
160	45.5	36.2	54.2





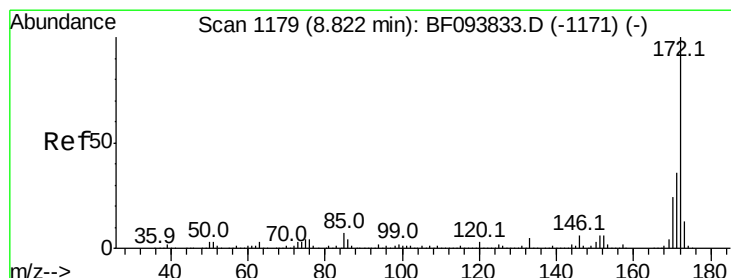
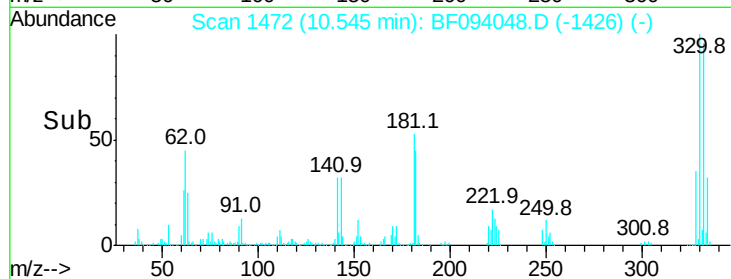
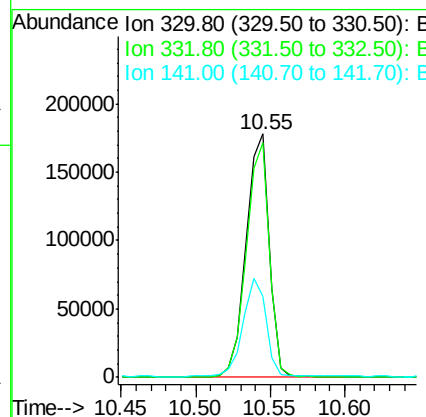
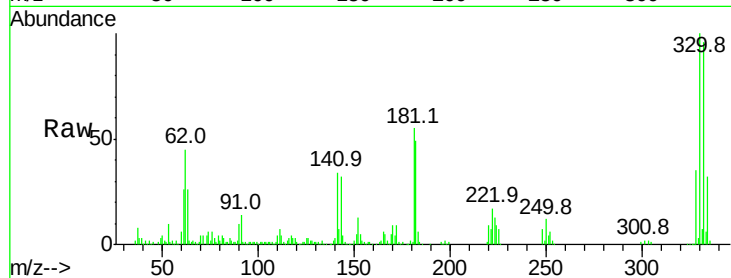
#41
 2,4,6-Tribromophenol
 Concen: 84.26 ng
 RT: 10.55 min Scan# 1472
 Delta R.T. -0.03 min
 Lab File: BF094048.D
 Acq: 30 Mar 2017 6:46

Instrument :
 BNA_F
 ClientSampleId :
 E2-AA9-SSW

Tot Ion	Ratio	Resp	Lower	Upper
330	100			
332	96.1	76.6	115.0	
141	40.3	31.4	47.2	

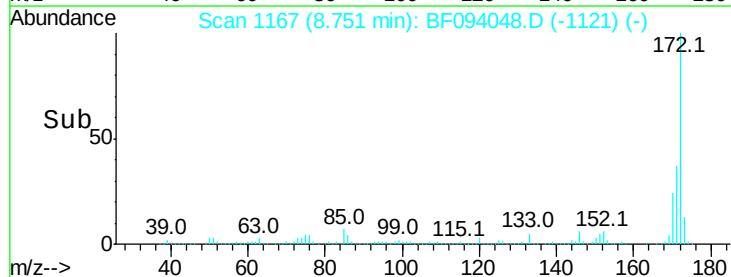
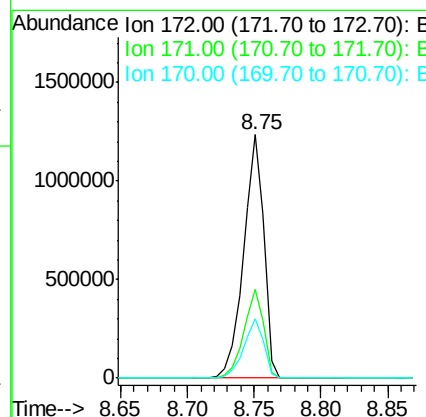
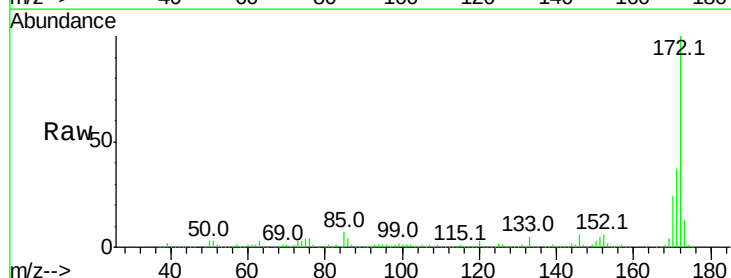
Manual Integrations
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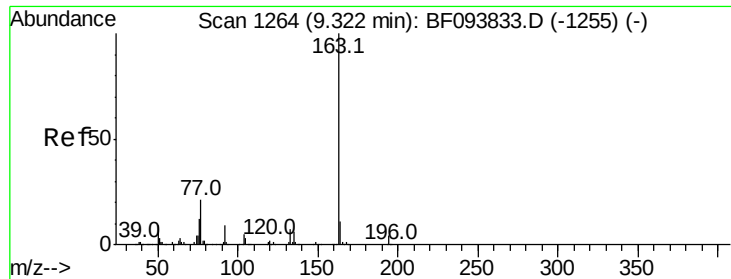
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#44
 2-Fluorobiphenyl
 Concen: 68.56 ng
 RT: 8.75 min Scan# 1167
 Delta R.T. -0.03 min
 Lab File: BF094048.D
 Acq: 30 Mar 2017 6:46

Tgt Ion	Ratio	Resp	Lower	Upper
172	100			
171	36.7	29.6	44.4	
170	24.2	19.8	29.8	





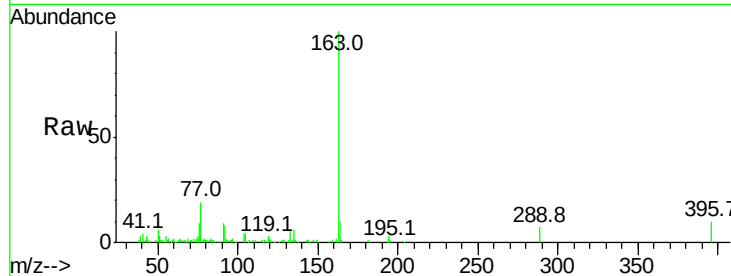
#49
Dimethylphthalate
Concen: 4.74 ng
RT: 9.25 min Scan# 1251
Delta R.T. -0.04 min
Lab File: BF094048.D
Acq: 30 Mar 2017 6:46

Instrument :
BNA_F
ClientSampleId :
E2-AA9-SSW

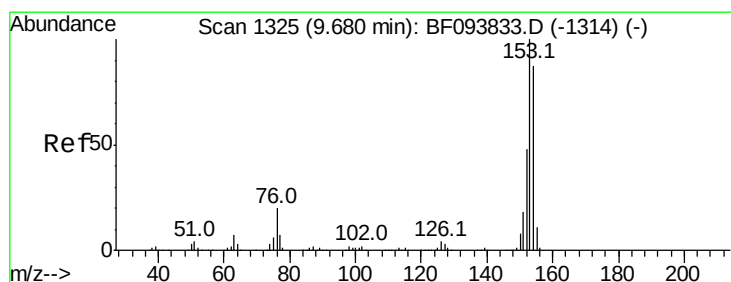
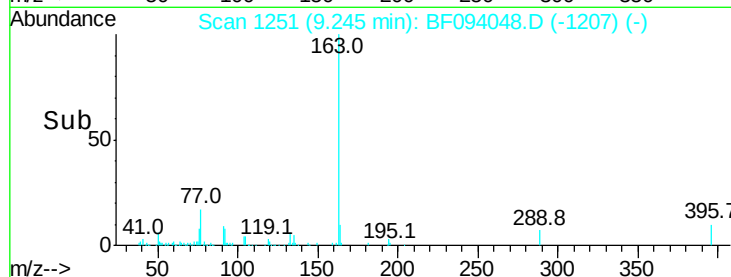
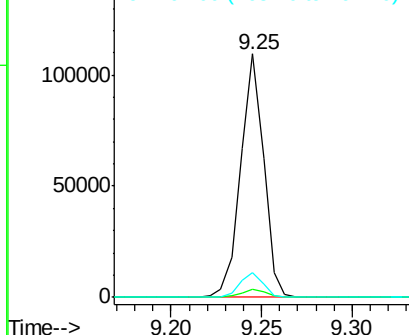
Tot Ion	Ratio	Resp	Lower	Upper
163	100			
194	3.3	2.6	4.0	
164	10.2	8.4	12.6	

Manual Integrations
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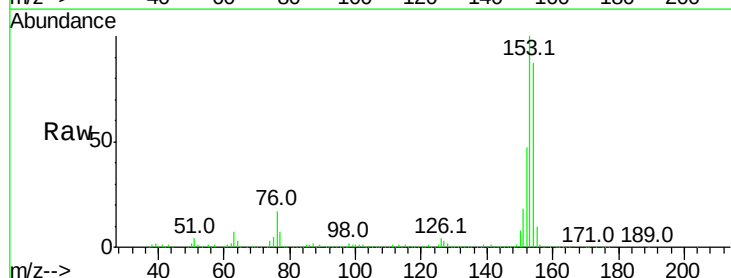


Abundance Ion 163.00 (162.70 to 163.70): E
Ion 194.00 (193.70 to 194.70): E
Ion 164.00 (163.70 to 164.70): E

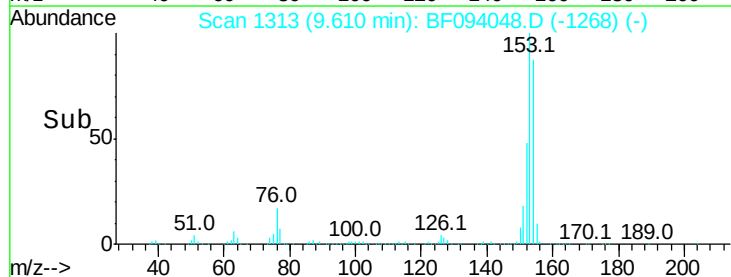
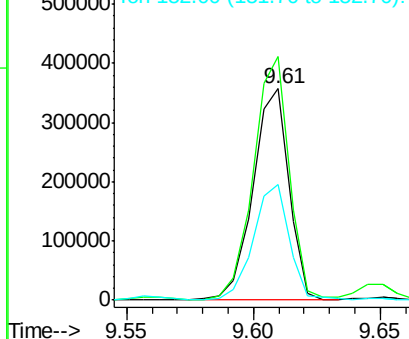


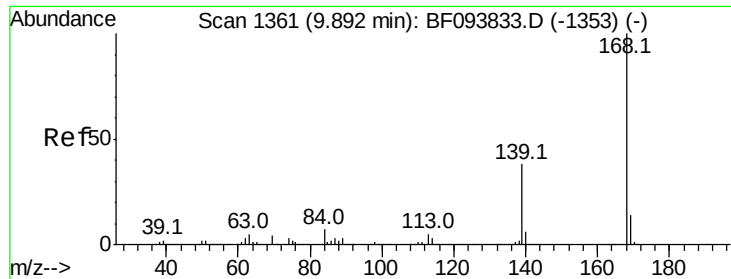
#51
Acenaphthene
Concen: 19.95 ng
RT: 9.61 min Scan# 1313
Delta R.T. -0.04 min
Lab File: BF094048.D
Acq: 30 Mar 2017 6:46

Tgt Ion	Ratio	Resp	Lower	Upper
154	100			
153	115.2	90.5	135.7	
152	54.7	43.6	65.4	



Abundance Ion 154.00 (153.70 to 154.70): E
Ion 153.00 (152.70 to 153.70): E
Ion 152.00 (151.70 to 152.70): E





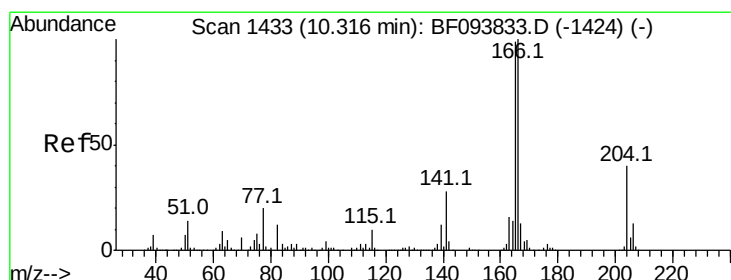
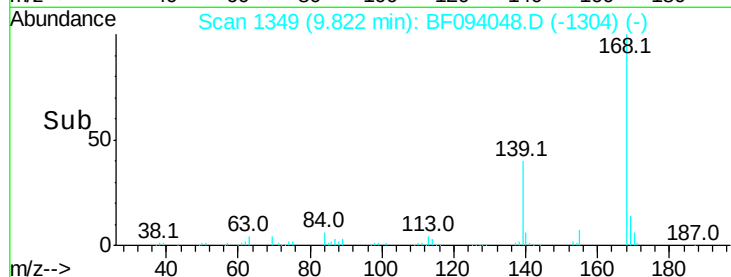
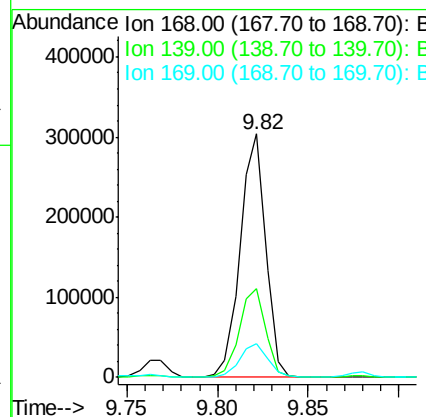
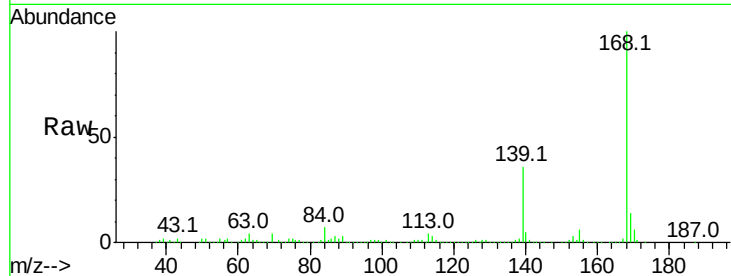
#54
Dibenzofuran
Concen: 12.35 ng
RT: 9.82 min Scan# 1349
Delta R.T. -0.04 min
Lab File: BF094048.D
Acq: 30 Mar 2017 6:46

Instrument :
BNA_F
ClientSampleId :
E2-AA9-SSW

Tot Ion	Ratio	Lower	Upper
168	100		
139	36.5	30.6	45.8
169	13.8	10.8	16.2

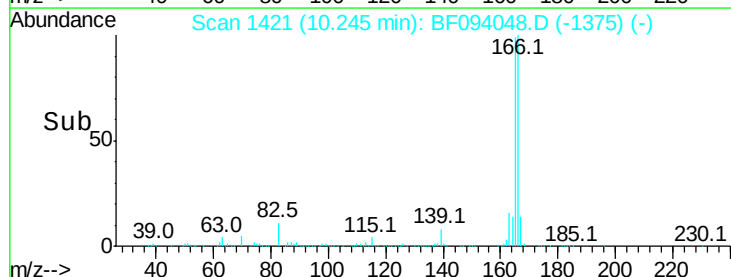
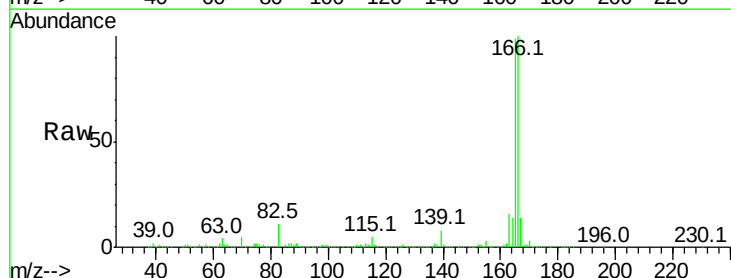
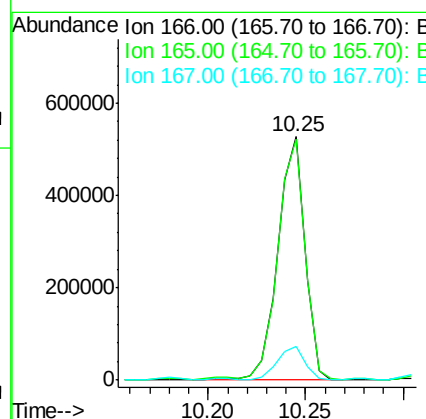
Manual Integrations
APPROVED

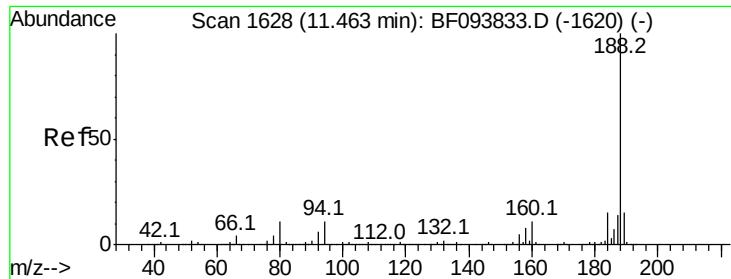
mohammad
3/30/2017 2:32:47 PM



#57
Fluorene
Concen: 25.31 ng
RT: 10.25 min Scan# 1421
Delta R.T. -0.03 min
Lab File: BF094048.D
Acq: 30 Mar 2017 6:46

Tgt Ion	Ratio	Lower	Upper
166	100		
165	98.9	78.8	118.2
167	13.8	10.6	16.0





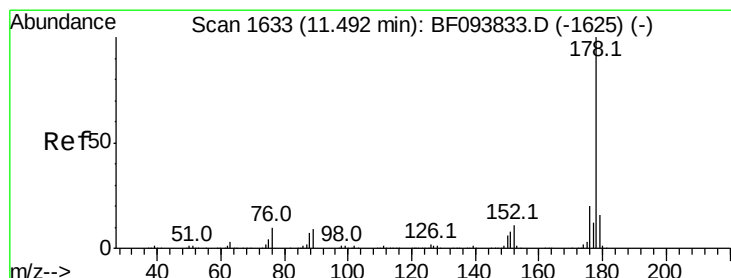
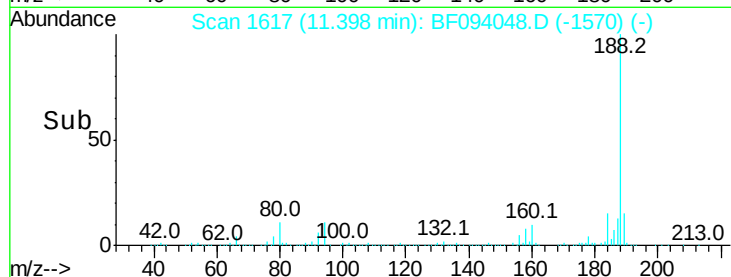
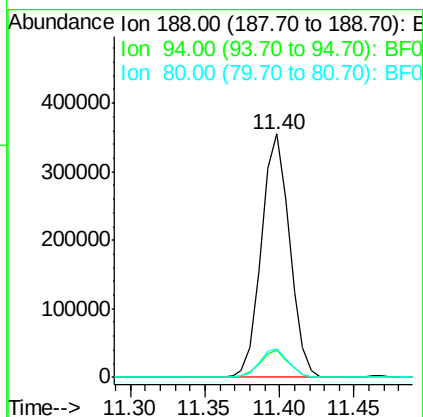
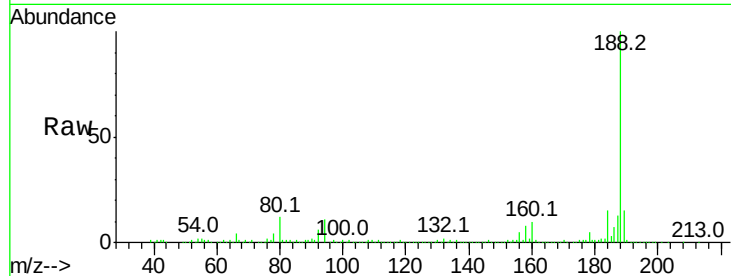
#63
Phenanthrene-d10
Concen: 20.00 ng
RT: 11.40 min Scan# 1617
Delta R.T. -0.02 min
Lab File: BF094048.D
Acq: 30 Mar 2017 6:46

Instrument :
BNA_F
ClientSampleId :
E2-AA9-SSW

Tot Ion	Ratio	Resp	Lower	Upper
188	100	462422		
94	11.1		9.4	14.2
80	11.6		10.2	15.2

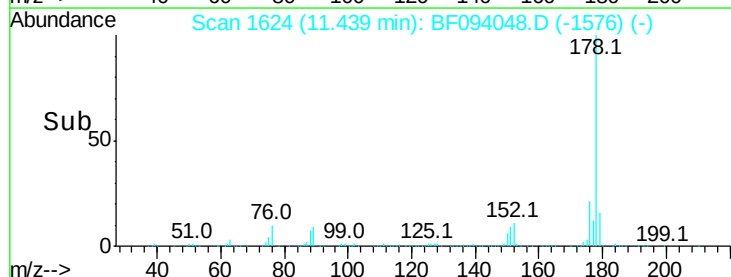
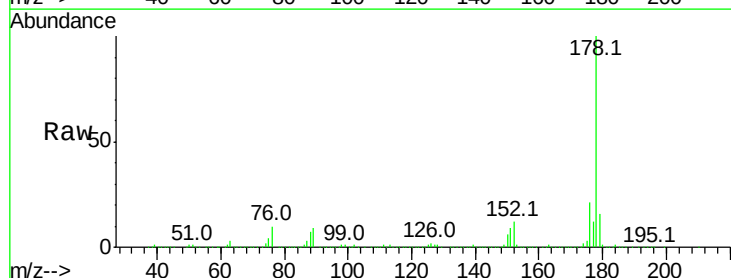
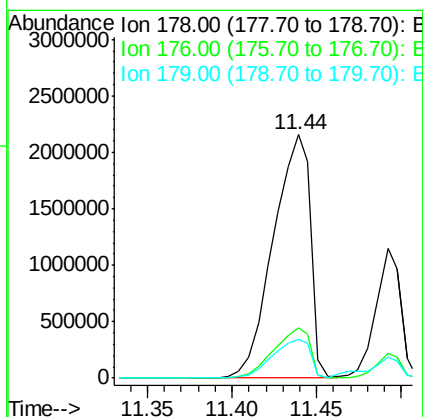
Manual Integrations
APPROVED

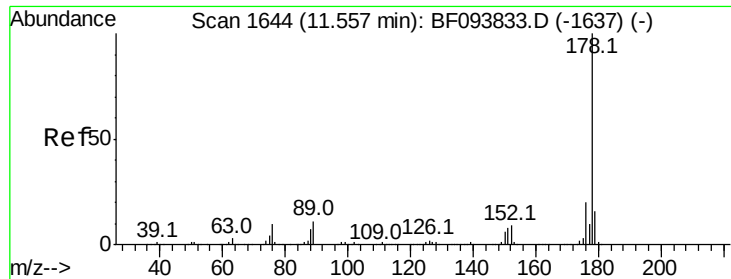
mohammad
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#70
Phenanthrene
Concen: 128.53 ng
RT: 11.44 min Scan# 1624
Delta R.T. -0.02 min
Lab File: BF094048.D
Acq: 30 Mar 2017 6:46

Tgt Ion	Ratio	Resp	Lower	Upper
178	100	3306364		
176	20.7		16.2	24.4
179	16.2		12.6	19.0





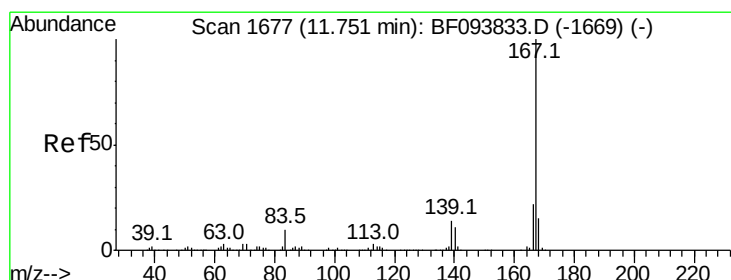
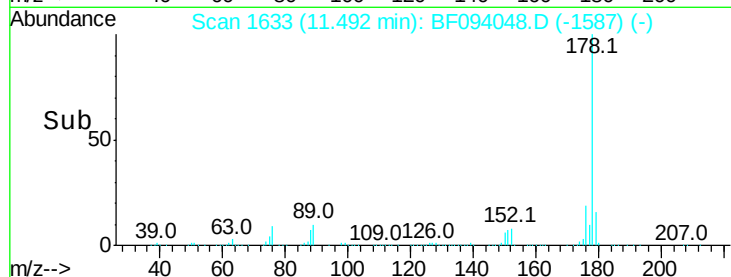
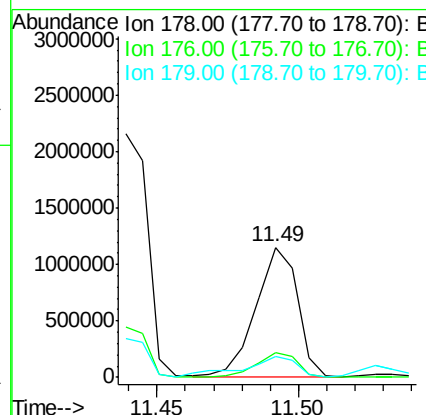
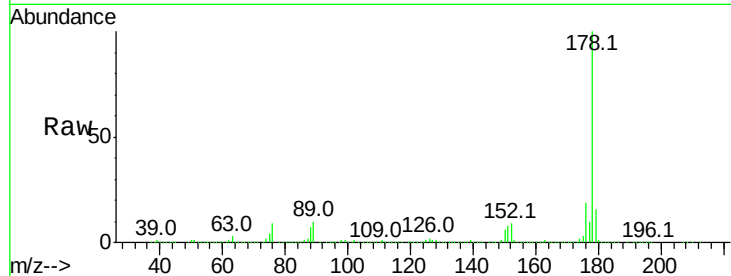
#71
 Anthracene
 Concen: 44.24 ng
 RT: 11.49 min Scan# 1633
 Delta R.T. -0.03 min
 Lab File: BF094048.D
 Acq: 30 Mar 2017 6:46

Instrument :
 BNA_F
 ClientSampleId :
 E2-AA9-SSW

Tot Ion:178 Resp: 1171790
 Ion Ratio Lower Upper
 178 100
 176 18.8 15.8 23.8
 179 16.1 12.7 19.1

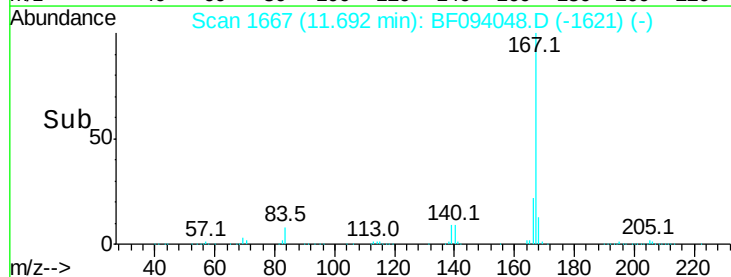
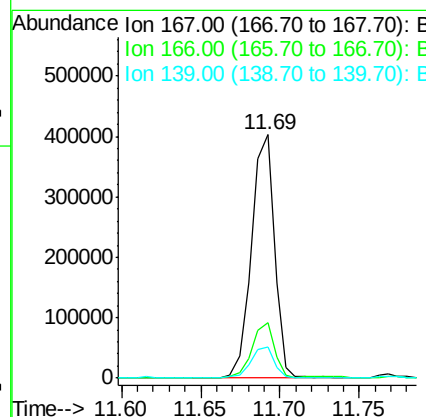
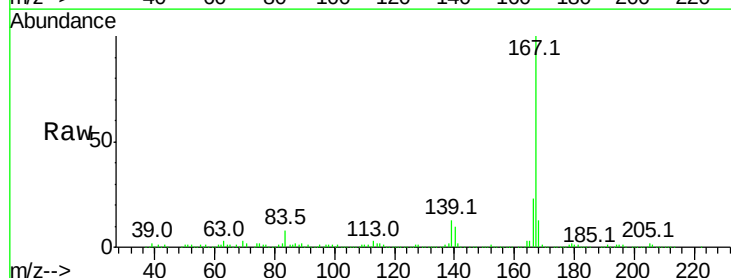
Manual Integrations
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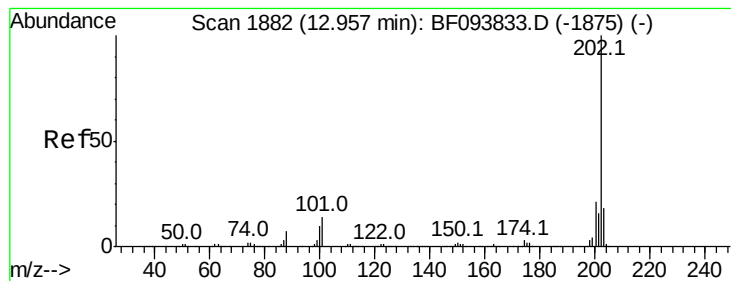
mohammad
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#72
 Carbazole
 Concen: 14.84 ng
 RT: 11.69 min Scan# 1667
 Delta R.T. -0.03 min
 Lab File: BF094048.D
 Acq: 30 Mar 2017 6:46

Tgt Ion:167 Resp: 402923
 Ion Ratio Lower Upper
 167 100
 166 22.6 18.1 27.1
 139 13.0 11.7 17.5





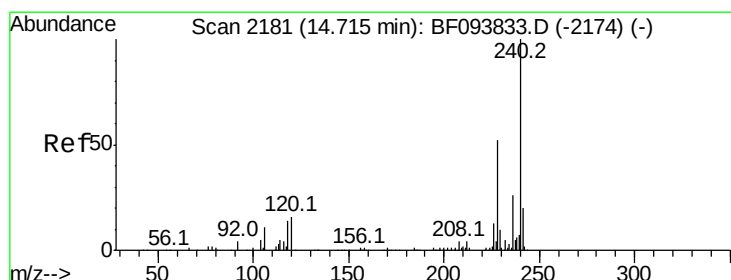
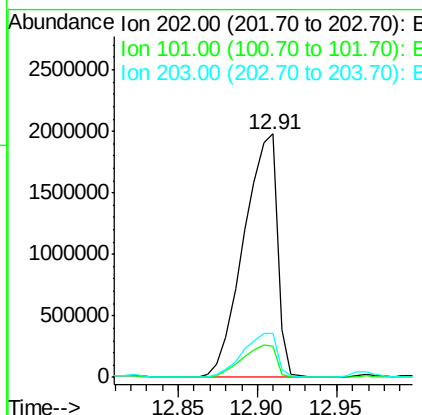
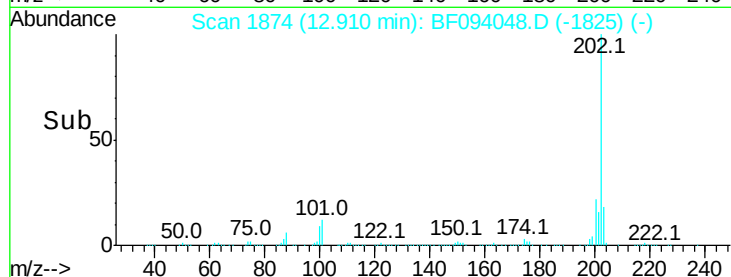
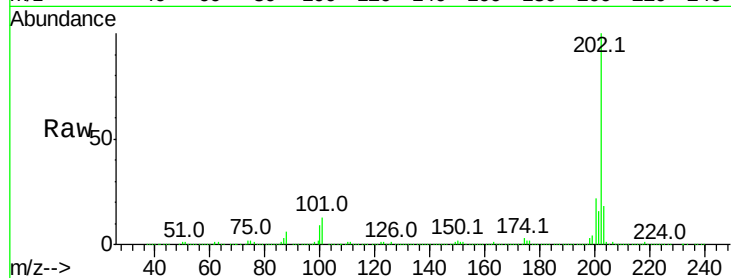
#74
Fluoranthene
Concen: 110.74 ng
RT: 12.91 min Scan# 1874
Delta R.T. -0.01 min
Lab File: BF094048.D
Acq: 30 Mar 2017 6:46

Instrument :
BNA_F
ClientSampleId :
E2-AA9-SSW

Tot Ion	Ratio	Lower	Upper
202	100		
101	12.6	0.0	33.2
203	17.8	0.0	38.1

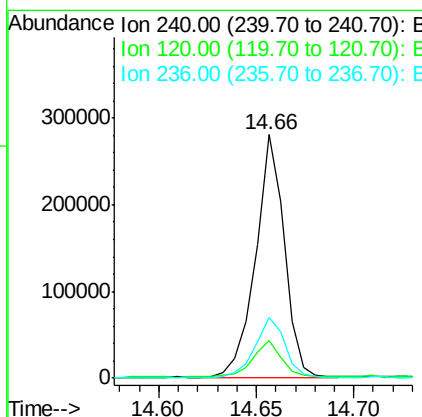
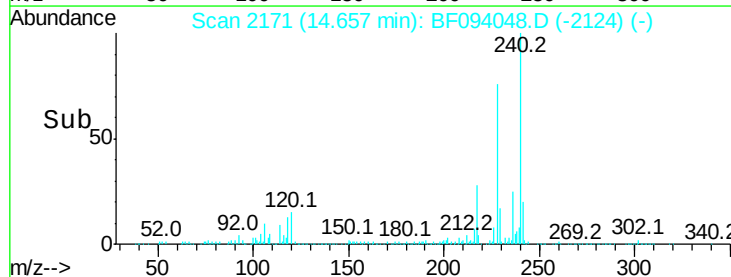
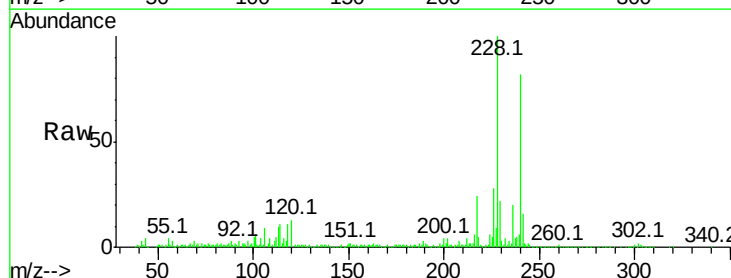
Manual Integrations
APPROVED

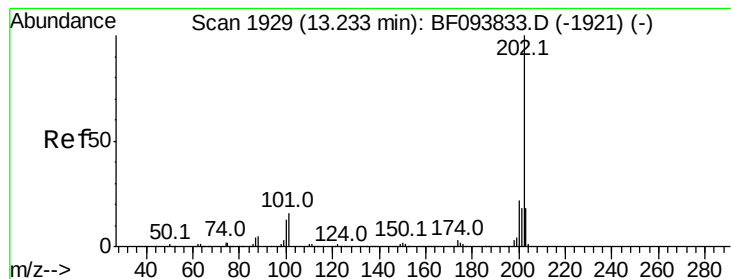
mohammad
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#75
Chrysene-d12
Concen: 20.00 ng
RT: 14.66 min Scan# 2171
Delta R.T. -0.02 min
Lab File: BF094048.D
Acq: 30 Mar 2017 6:46

Tgt Ion	Ratio	Lower	Upper
240	100		
120	15.4	5.8	8.8#
236	24.8	20.5	30.7





#77

Pvrene

Concen: 127.20 ng

RT: 13.19 min Scan# 1921

Delta R.T. -0.01 min

Lab File: BF094048.D

Acq: 30 Mar 2017 6:46

Instrument :

BNA_F

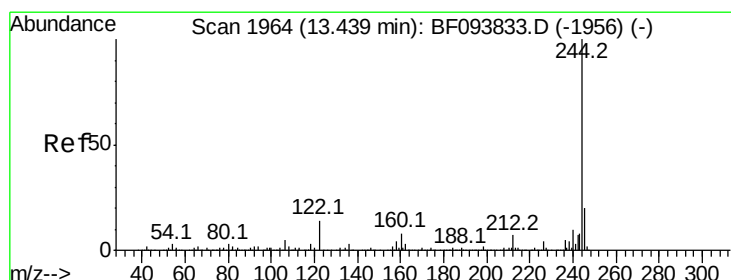
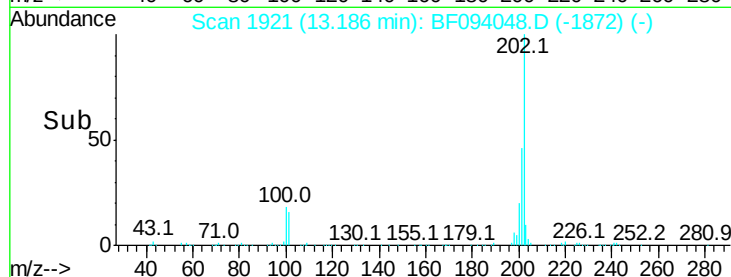
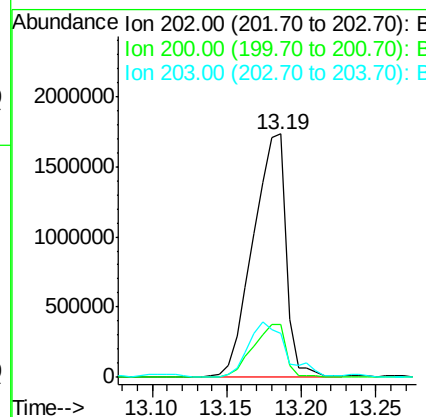
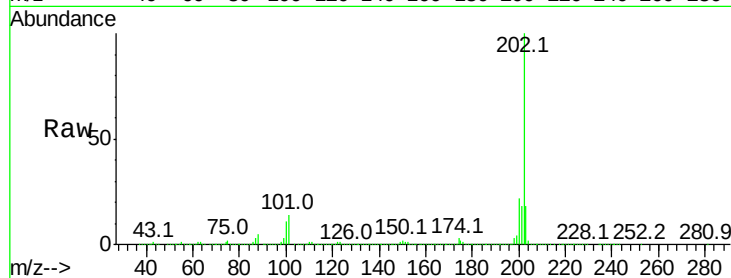
ClientSampleId :

E2-AA9-SSW

Tot Ion:	202	Resp:	2633903
Ion	Ratio	Lower	Upper
202	100		
200	21.6	17.6	26.4
203	17.9	14.4	21.6

Manual Integrations
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#78

Terphenyl-d14

Concen: 66.76 ng

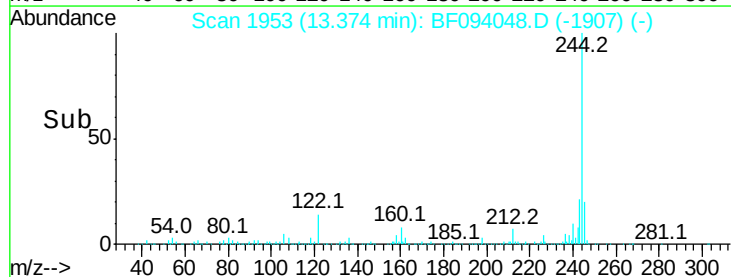
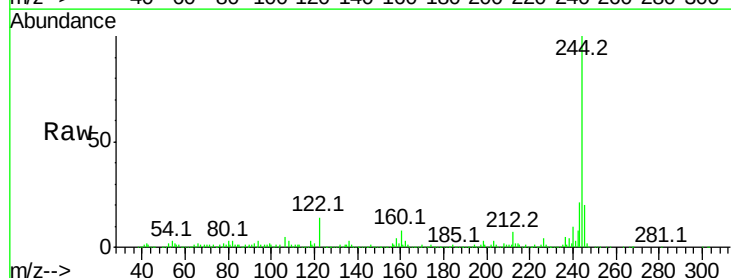
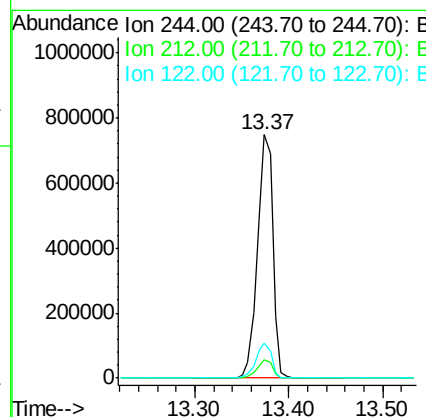
RT: 13.37 min Scan# 1953

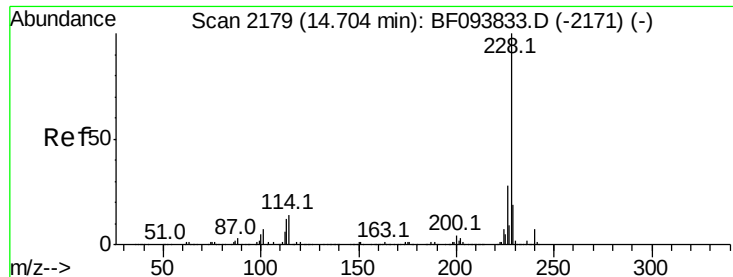
Delta R.T. -0.03 min

Lab File: BF094048.D

Acq: 30 Mar 2017 6:46

Tgt Ion:	244	Resp:	849723
Ion	Ratio	Lower	Upper
244	100		
212	7.4	6.0	9.0
122	14.5	10.3	15.5





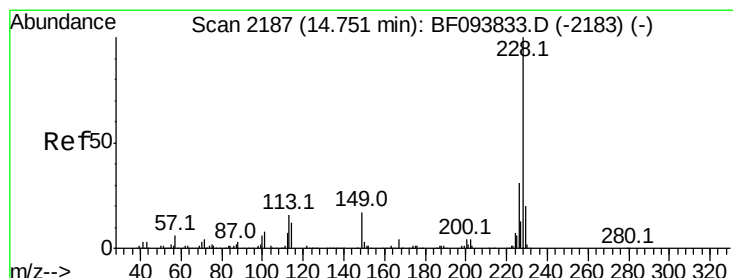
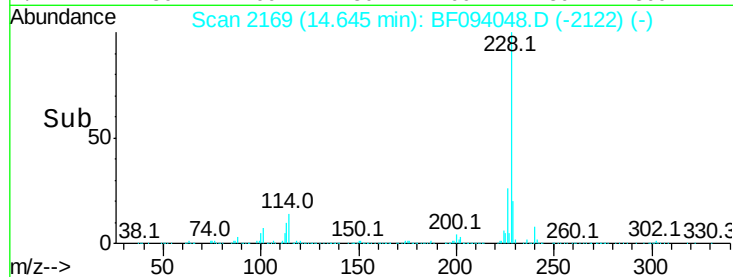
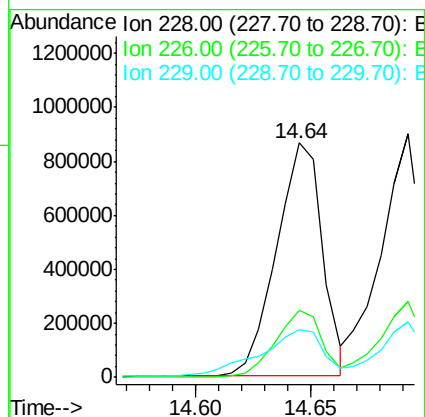
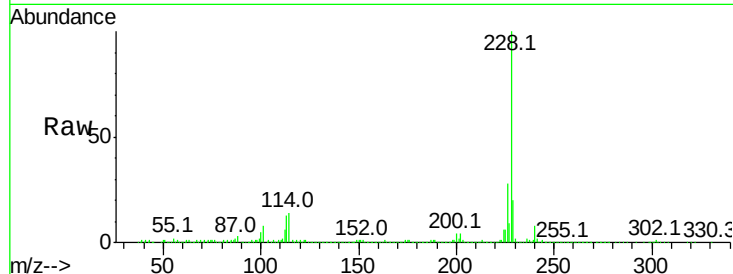
#80
Benzo(a)anthracene
Concen: 71.84 ng
RT: 14.64 min Scan# 2169
Delta R.T. -0.02 min
Lab File: BF094048.D
Acq: 30 Mar 2017 6:46

Instrument :
BNA_F
ClientSampleId :
E2-AA9-SSW

Tot Ion	Ratio	Lower	Upper
228	100		
226	28.4	22.6	33.8
229	20.5	16.3	24.5

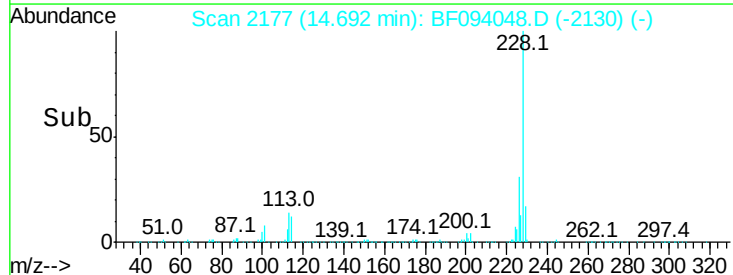
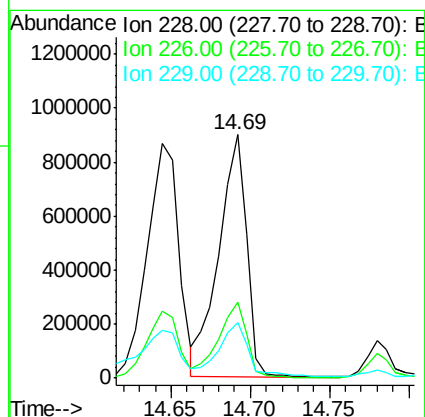
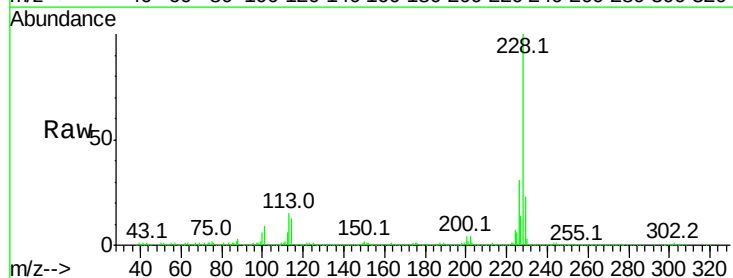
Manual Integrations
APPROVED

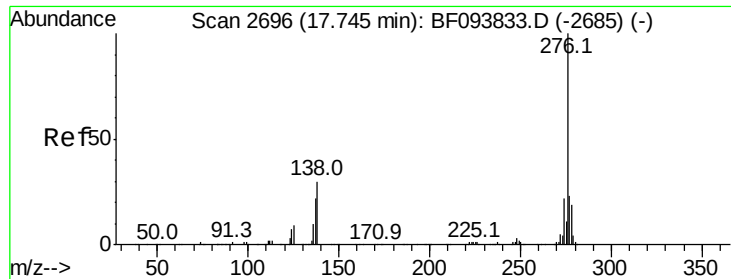
mohammad
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#82
Chrysene
Concen: 71.10 ng
RT: 14.69 min Scan# 2177
Delta R.T. -0.02 min
Lab File: BF094048.D
Acq: 30 Mar 2017 6:46

Tgt Ion	Ratio	Lower	Upper
228	100		
226	31.2	24.9	37.3
229	23.0	15.8	23.6





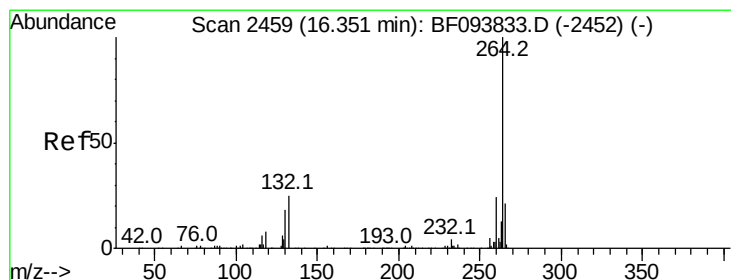
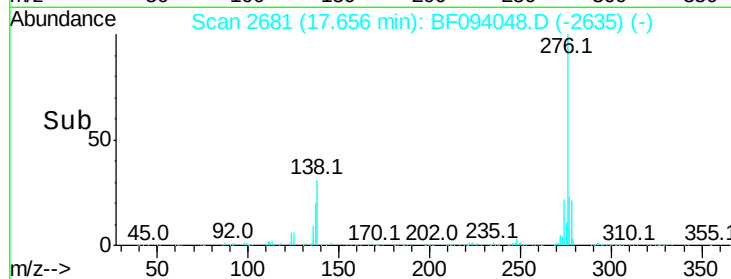
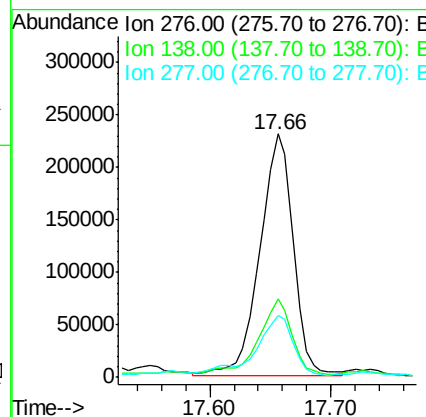
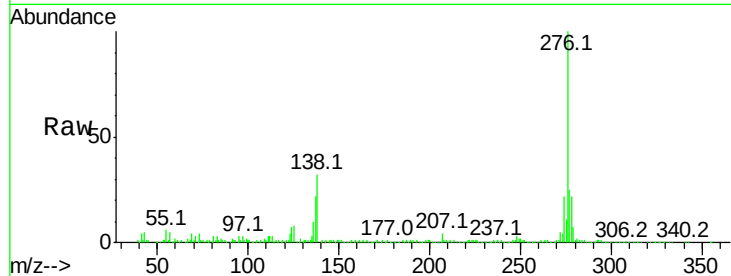
#85
Indeno(1,2,3-cd)pyrene
Concen: 33.18 ng
RT: 17.66 min Scan# 2681
Delta R.T. -0.03 min
Lab File: BF094048.D
Acq: 30 Mar 2017 6:46

Instrument :
BNA_F
ClientSampleId :
E2-AA9-SSW

Tot Ion	Ratio	Lower	Upper
276	100		
138	32.2	27.8	41.6
277	28.5	20.2	30.4

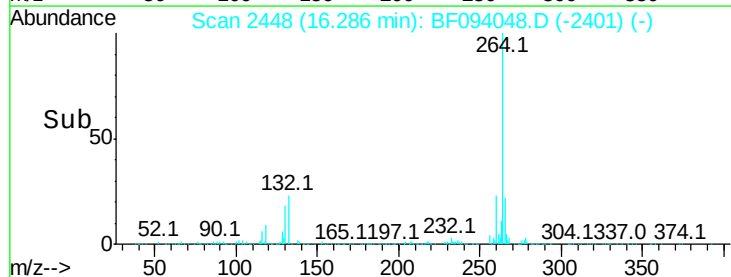
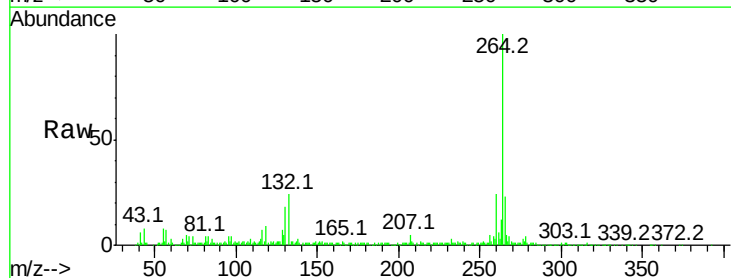
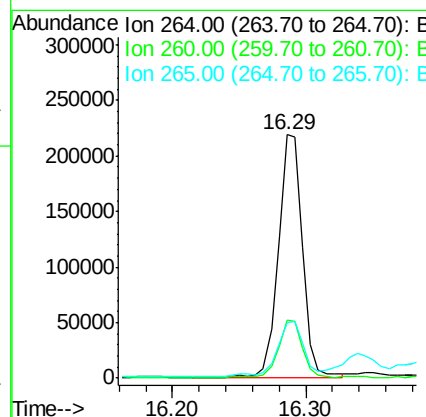
Manual Integrations
APPROVED

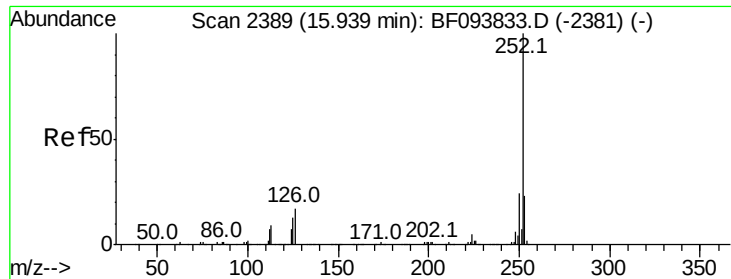
mohammad
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#86
Perylene-d12
Concen: 20.00 ng
RT: 16.29 min Scan# 2448
Delta R.T. -0.02 min
Lab File: BF094048.D
Acq: 30 Mar 2017 6:46

Tgt Ion	Ratio	Lower	Upper
264	100		
260	23.7	19.5	29.3
265	22.6	17.2	25.8





#87

Benzo(b)fluoranthene

Concen: 64.98 ng m

RT: 15.89 min Scan# 2380

Delta R.T. -0.01 min

Lab File: BF094048.D

Acq: 30 Mar 2017 6:46

Instrument :

BNA_F

ClientSampleId :

E2-AA9-SSW

Tot Ion:252 Resp: 1100782

Ion Ratio Lower Upper

252 100

253 23.2 18.1 27.1

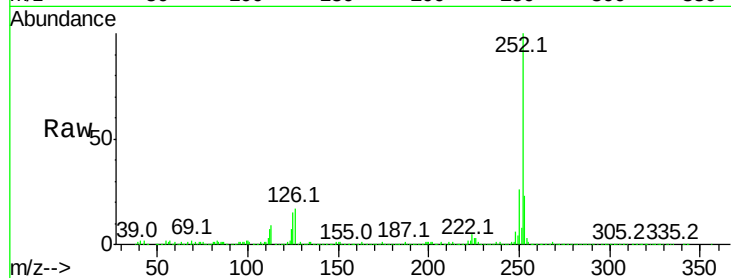
125 15.2 9.8 14.8#

Manual Integrations

APPROVED

mohammad

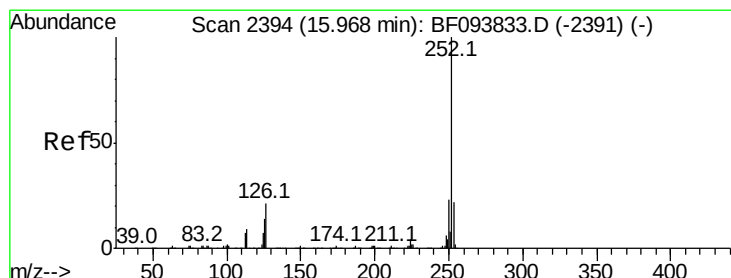
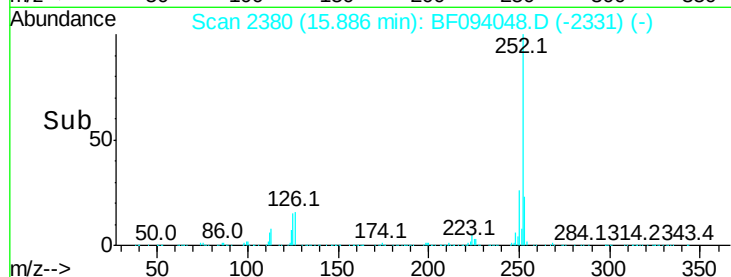
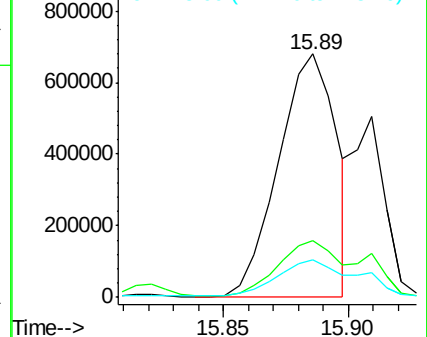
3/30/2017 2:32:47 PM



Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



#88

Benzo(k)fluoranthene

Concen: 26.48 ng m

RT: 15.91 min Scan# 2384

Delta R.T. -0.02 min

Lab File: BF094048.D

Acq: 30 Mar 2017 6:46

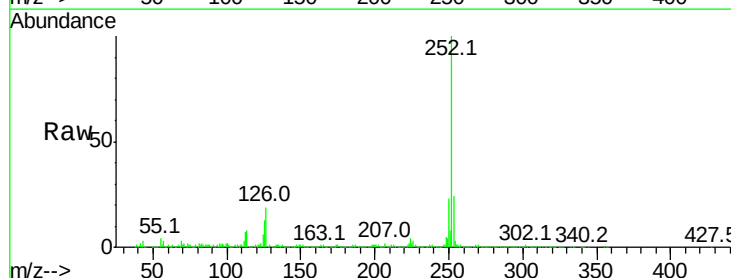
Tgt Ion:252 Resp: 438911

Ion Ratio Lower Upper

252 100

253 24.2 18.4 27.6

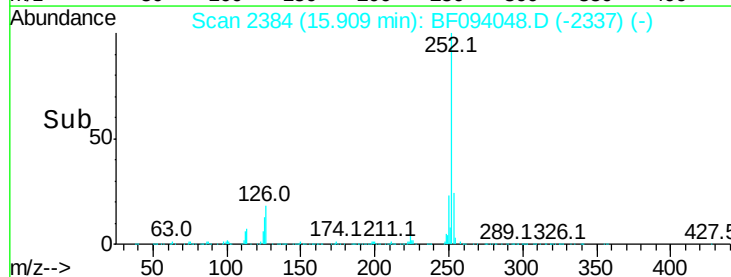
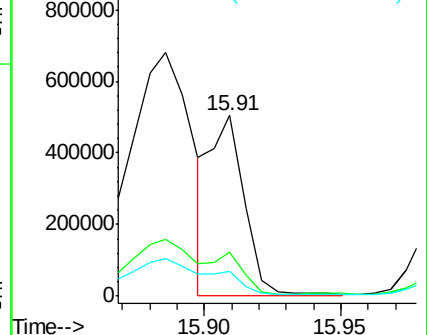
125 13.5 13.1 19.7

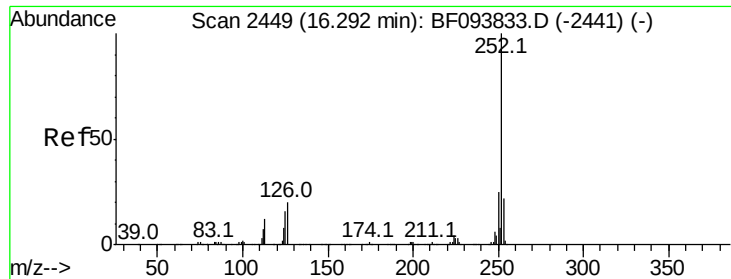


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





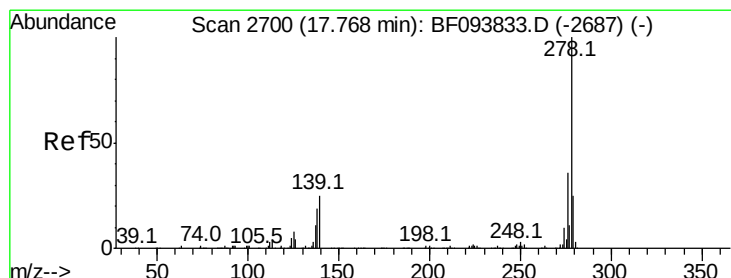
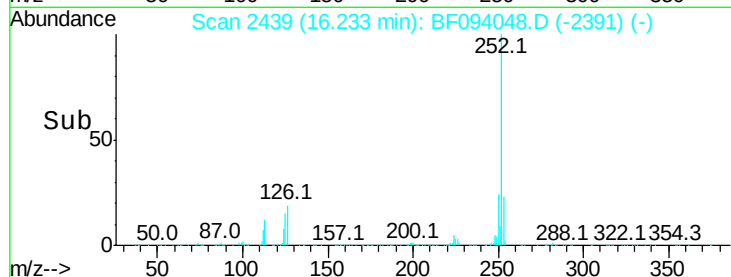
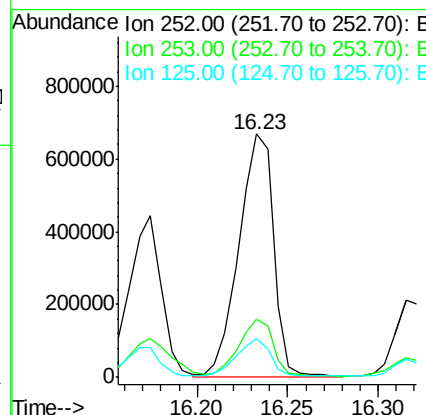
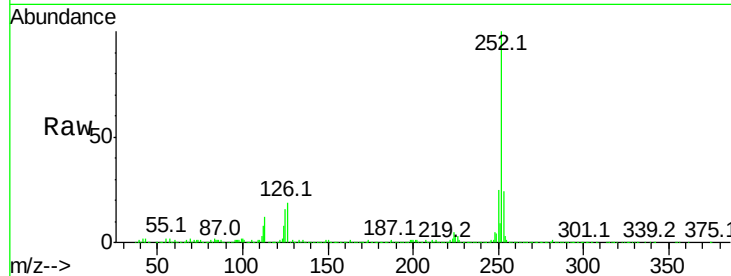
#89
Benzo(a)pyrene
Concen: 56.72 ng
RT: 16.23 min Scan# 2439
Delta R.T. -0.02 min
Lab File: BF094048.D
Acq: 30 Mar 2017 6:46

Instrument :
BNA_F
ClientSampleId :
E2-AA9-SSW

Tot Ion	Ratio	Lower	Upper
252	100		
253	23.7	17.5	26.3
125	15.8	11.0	16.4

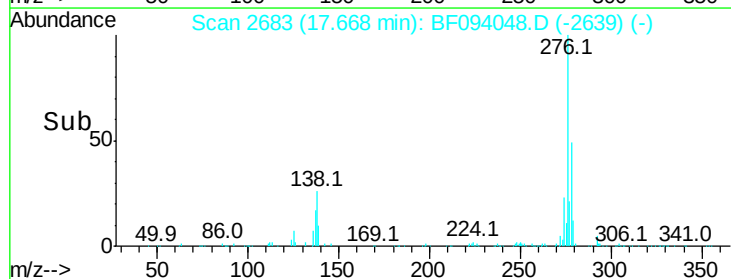
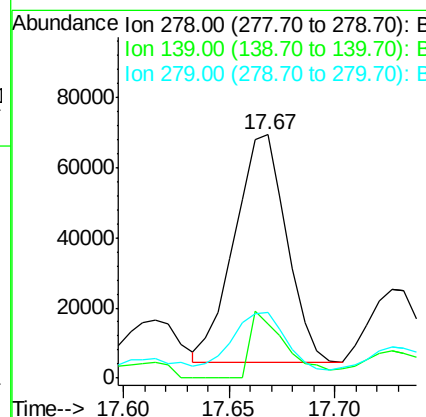
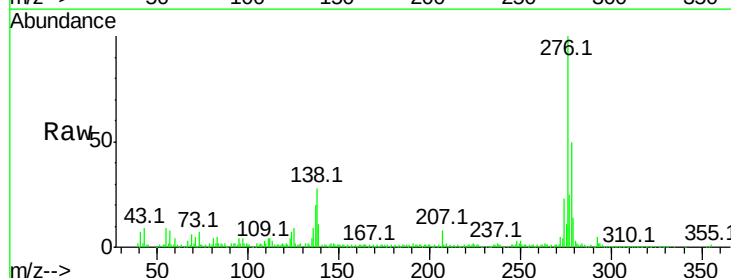
Manual Integrations
APPROVED

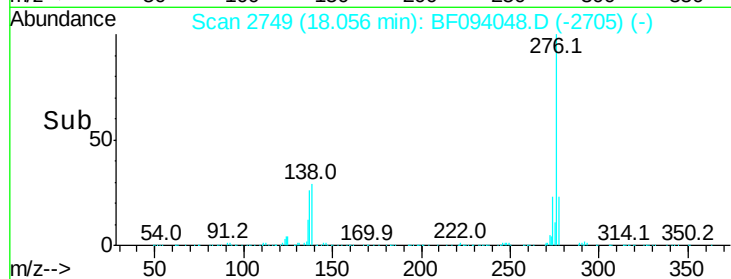
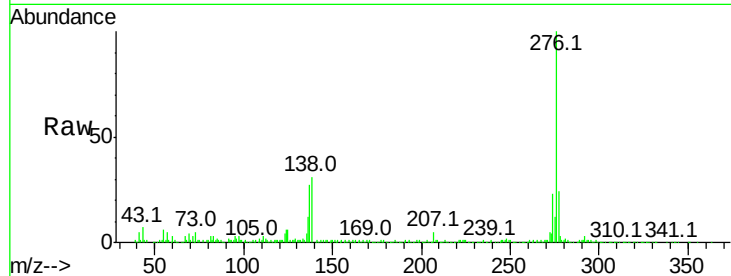
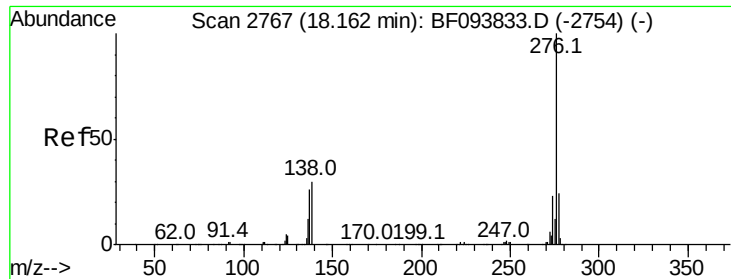
mohammad
3/30/2017 2:32:47 PM



#90
Dibenzo(a,h)anthracene
Concen: 8.37 ng
RT: 17.67 min Scan# 2683
Delta R.T. -0.04 min
Lab File: BF094048.D
Acq: 30 Mar 2017 6:46

Tgt Ion	Ratio	Lower	Upper
278	100		
139	22.5	16.6	24.8
279	27.0	19.3	28.9





#91

Benzo(a,h,i)perylene

Concen: 29.31 ng

RT: 18.06 min Scan# 2749

Delta R.T. -0.04 min

Lab File: BF094048.D

Acq: 30 Mar 2017 6:46

Instrument :

BNA_F

ClientSampleId :

E2-AA9-SSW

Tot Ion:	276	Resp:	390214
Ion Ratio	Lower	Upper	
276	100		
277	23.9	18.6	28.0
138	31.5	25.4	38.0

Manual Integrations
APPROVED

mohammad
3/30/2017 2:32:47 PM

