

Data Path : Z:\HPCHEM1\BNA F\DATA\BF052617\
 Data File : BF095459.D
 Acq On : 26 May 2017 14:14
 Operator : SJ/MA
 Sample : I3240-01
 Misc :
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 EP2-WC8(0-8)

Manual Integrations
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Quant Time: May 26 17:07:27 2017
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF050217.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri May 26 16:50:16 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.74	152	95378	20.00	ng	0.00
21) Naphthalene-d8	9.76	136	396040	20.00	ng	0.00
38) Acenaphthene-d10	12.59	164	170483	20.00	ng	0.00
63) Phenanthrene-d10	15.00	188	256779	20.00	ng	0.00
75) Chrysene-d12	18.68	240	188471	20.00	ng	0.00
86) Perylene-d12	20.36	264	173819	20.00	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.71	112	732009	127.96	ng	0.00
7) Phenol-d6	7.29	99	864712	125.98	ng	0.00
23) Nitrobenzene-d5	8.64	82	499167	79.48	ng	-0.01
41) 2,4,6-Tribromophenol	13.90	330	143677	102.91	ng	0.00
44) 2-Fluorobiphenyl	11.53	172	885518	74.76	ng	0.00
78) Terphenyl-d14	17.32	244	527334	61.63	ng	0.00
Target Compounds						Qvalue
10) Phenol	7.31	94	47640	6.59	ng	86
20) 3+4-Methylphenols	8.57	107	48312	6.67	ng	# 63
27) 2,4-Dimethylphenol	9.39	122	12850	2.24	ng	98
31) Naphthalene	9.81	128	3293826	165.48	ng	99
37) 2-Methylnaphthalene	10.92	142	976969	74.79	ng	98
45) 1,1'-Biphenyl	11.68	154	329350	22.95	ng	98
48) Acenaphthylene	12.37	152	39096	2.15	ng	# 82
49) Dimethylphthalate	12.22	163	161980	11.57	ng	98
51) Acenaphthene	12.65	154	623420	57.50	ng	99
54) Dibenzofuran	12.94	168	1169646	77.95	ng	99
57) Fluorene	13.49	166	420286	32.21	ng	98
70) Phenanthrene	15.07	178	4257457	288.57	ng	100
71) Anthracene	15.12	178	227709m	15.11	ng	
72) Carbazole	15.41	167	355512	25.93	ng	98
74) Fluoranthene	16.81	202	2930143	193.61	ng	99
77) Pyrene	17.11	202	2590531	183.78	ng	100
80) Benzo(a)anthracene	18.67	228	912635	83.20	ng	99
82) Chrysene	18.72	228	1239871	116.90	ng	97
85) Indeno(1,2,3-cd)pyrene	21.69	276	433475	50.33	ng	93
87) Benzo(b)fluoranthene	19.96	252	1363320m	126.93	ng	
88) Benzo(k)fluoranthene	19.98	252	377073m	36.40	ng	
89) Benzo(a)pyrene	20.31	252	834514	84.20	ng	98
90) Dibenzo(a,h)anthracene	21.68	278	105827m	12.93	ng	
91) Benzo(g,h,i)perylene	22.07	276	410912	51.16	ng	98

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

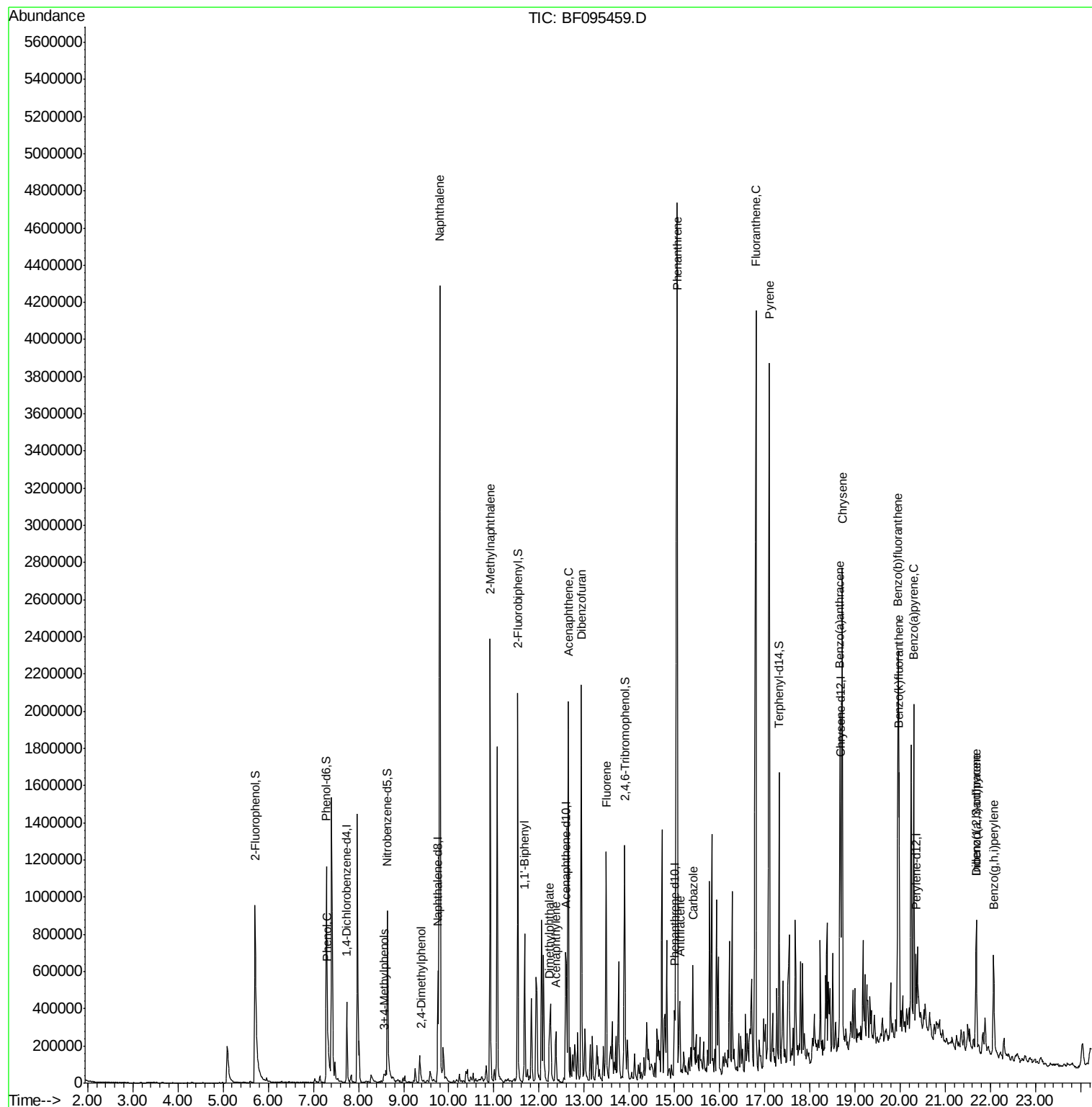
Data Path : Z:\HPCHEM1\BNA F\DATA\BF052617\
Data File : BF095459.D
Acq On : 26 May 2017 14:14
Operator : SJ/MA
Sample : I3240-01
Misc :
ALS Vial : 6 Sample Multiplier: 1

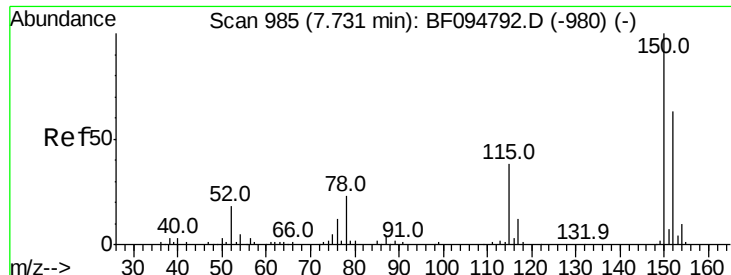
Instrument :
BNA_F
ClientSampleId :
EP2-WC8(0-8)

Manual Integrations
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Quant Time: May 26 17:07:27 2017
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF050217.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
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#1

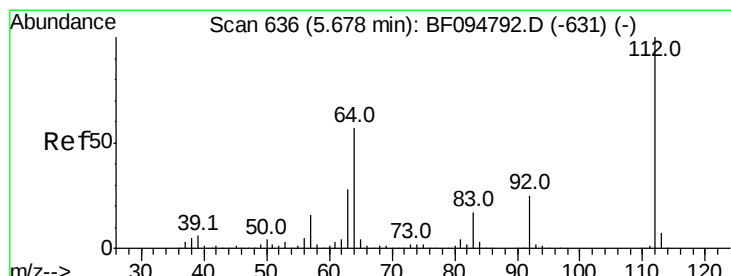
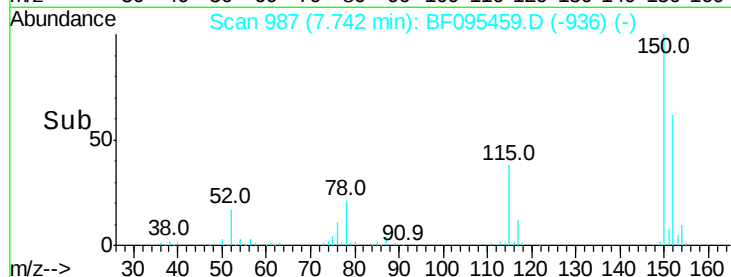
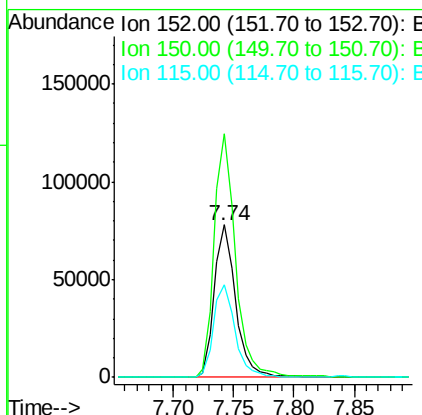
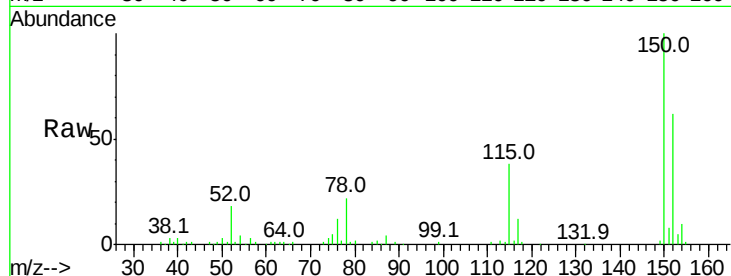
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 7.74 min Scan# 987
Delta R.T. 0.00 min
Lab File: BF095459.D
Acq: 26 May 2017 14:14

Instrument :
BNA_F
ClientSampleId :
EP2-WC8(0-8)

Tot Ion	Ratio	Lower	Upper
152	100		
150	160.0	126.2	189.2
115	61.1	52.2	78.2

Manual Integrations
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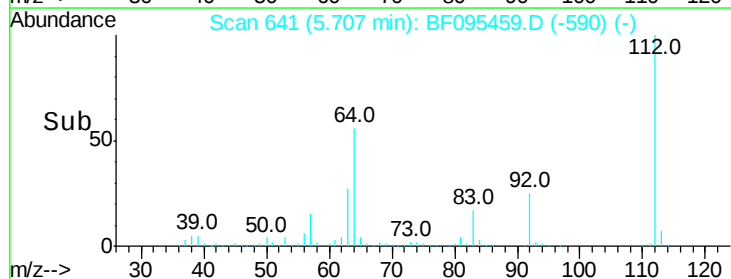
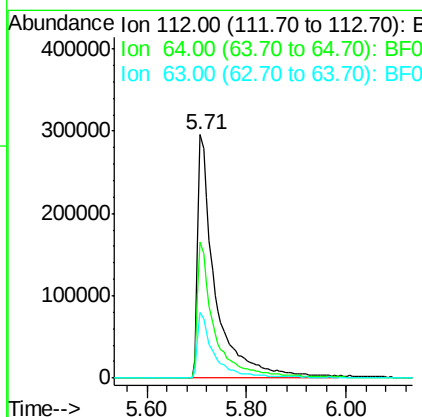
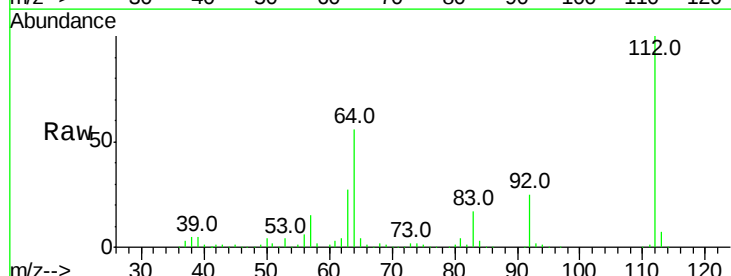
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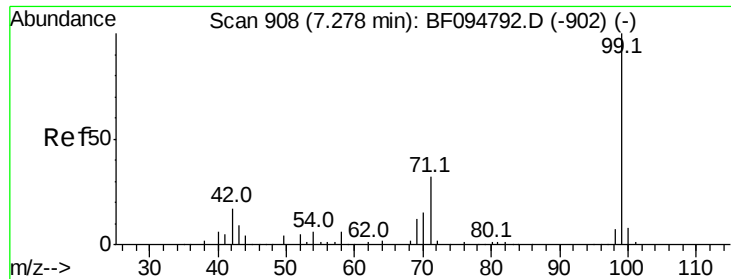


#5

2-Fluorophenol
Concen: 127.96 ng
RT: 5.71 min Scan# 641
Delta R.T. 0.00 min
Lab File: BF095459.D
Acq: 26 May 2017 14:14

Tgt Ion	Ratio	Lower	Upper
112	100		
64	55.7	46.0	69.0
63	26.7	23.4	35.0





#7

Phenol-d6

Concen: 125.98 ng

RT: 7.29 min Scan# 910

Delta R.T. -0.01 min

Lab File: BF095459.D

Acq: 26 May 2017 14:14

Instrument :

BNA_F

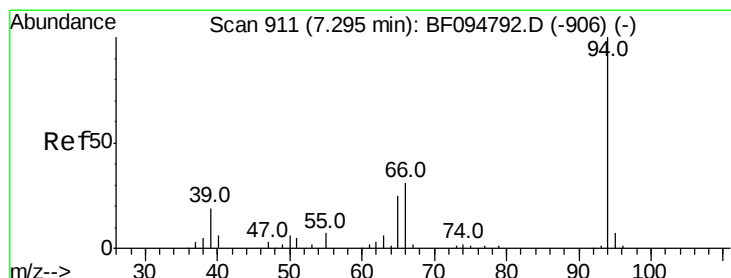
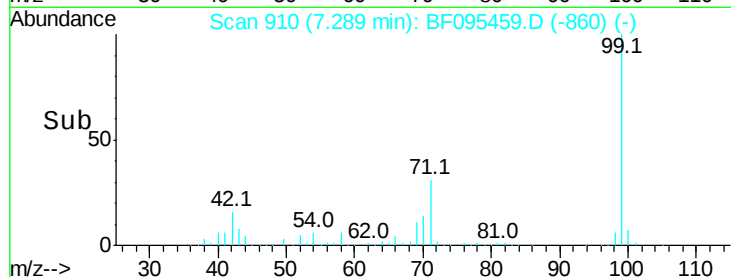
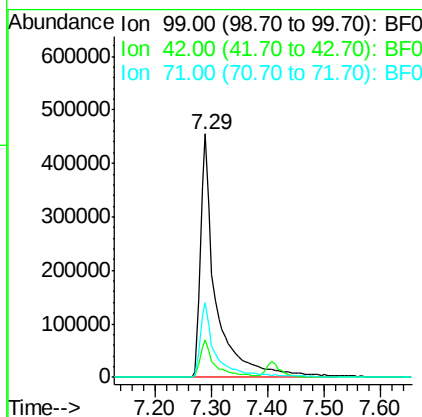
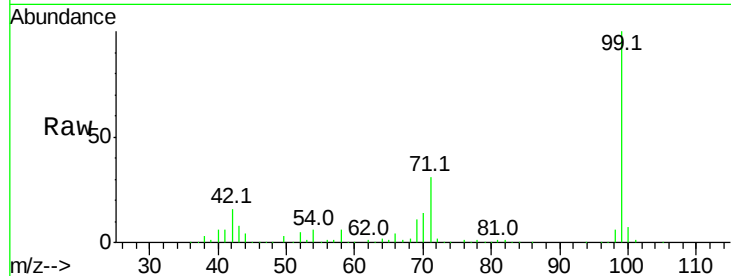
ClientSampleId :

EP2-WC8(0-8)

Tot Ion:	99	Resp:	864712
Ion Ratio	Lower	Upper	
99	100		
42	15.5	13.5	20.3
71	30.9	24.5	36.7

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#10

Phenol

Concen: 6.59 ng

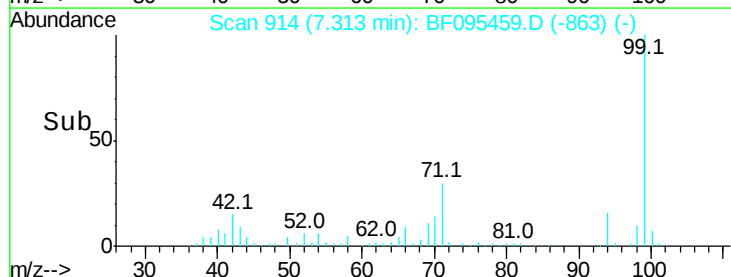
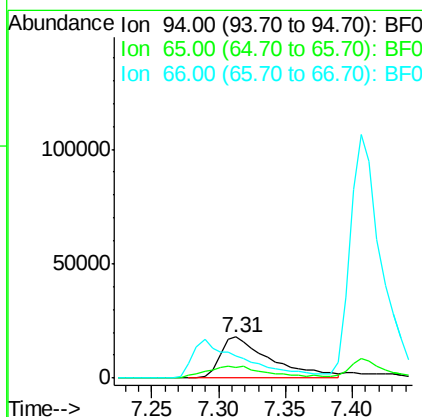
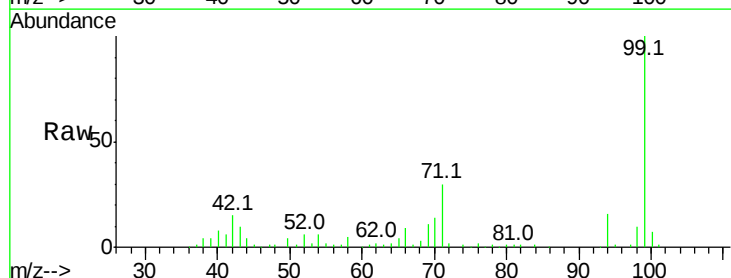
RT: 7.31 min Scan# 914

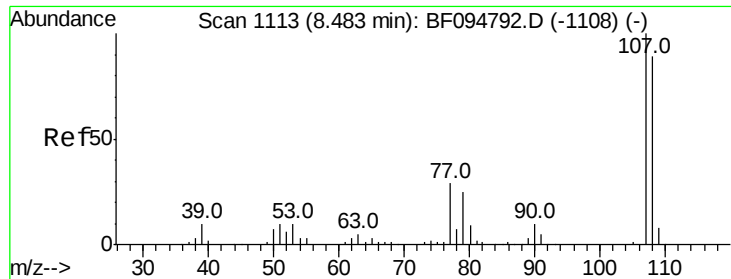
Delta R.T. 0.00 min

Lab File: BF095459.D

Acq: 26 May 2017 14:14

Tgt Ion:	94	Resp:	47640
Ion Ratio	Lower	Upper	
94	100		
65	25.7	9.9	49.9
66	54.5	23.1	63.1





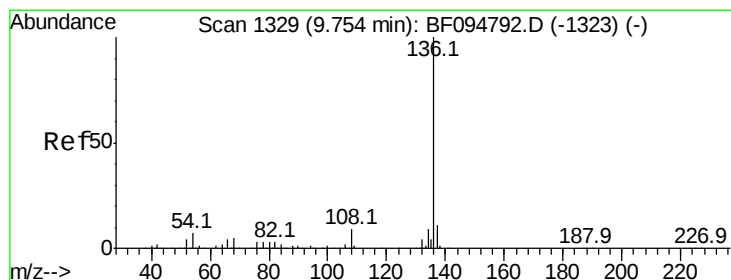
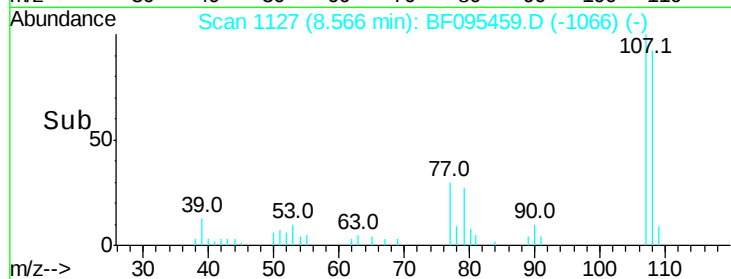
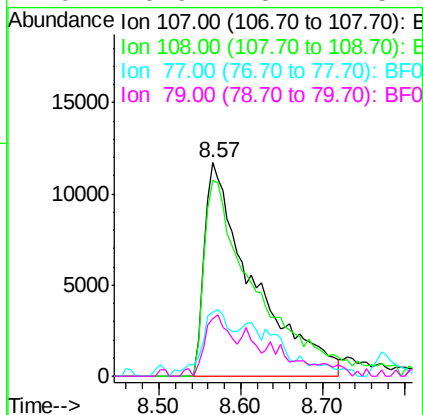
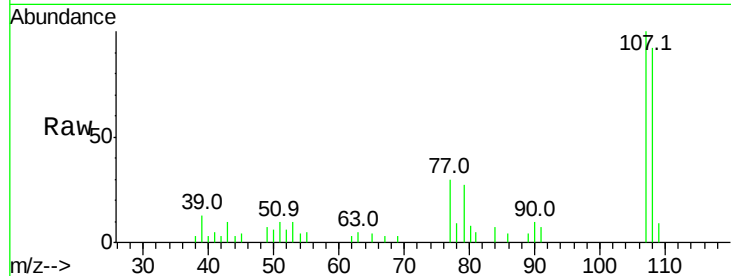
#20
3+4-Methylphenols
Concen: 6.67 ng
RT: 8.57 min Scan# 1127
Delta R.T. 0.06 min
Lab File: BF095459.D
Acq: 26 May 2017 14:14

Instrument :
BNA_F
ClientSampleId :
EP2-WC8(0-8)

Tot Ion	Ratio	Lower	Upper
107	100		
108	91.8	71.0	111.0
77	29.7	90.5	130.5#
79	26.9	8.4	48.4

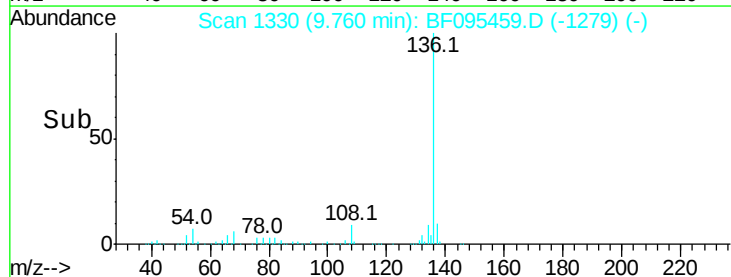
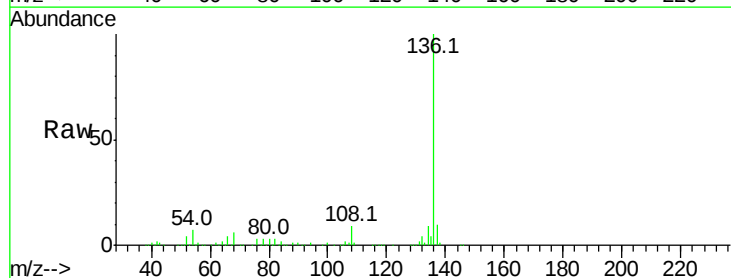
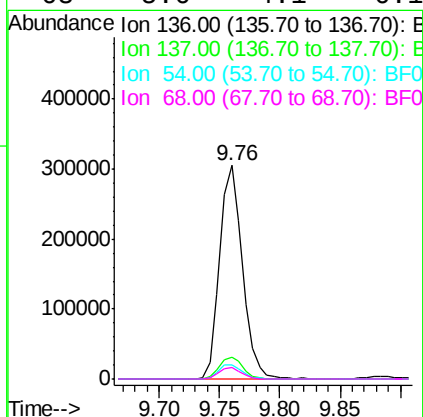
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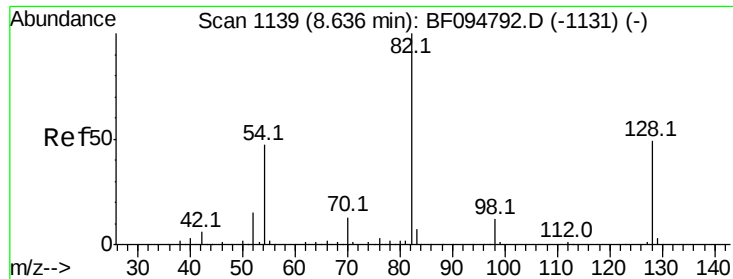
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#21
Naphthalene-d8
Concen: 20.00 ng
RT: 9.76 min Scan# 1330
Delta R.T. 0.00 min
Lab File: BF095459.D
Acq: 26 May 2017 14:14

Tgt Ion	Ratio	Lower	Upper
136	100		
137	10.4	8.5	12.7
54	6.8	4.9	7.3
68	5.6	4.1	6.1





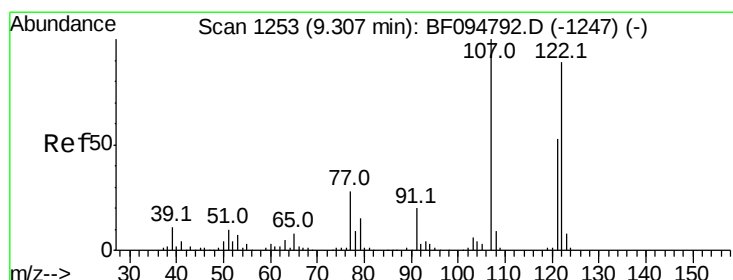
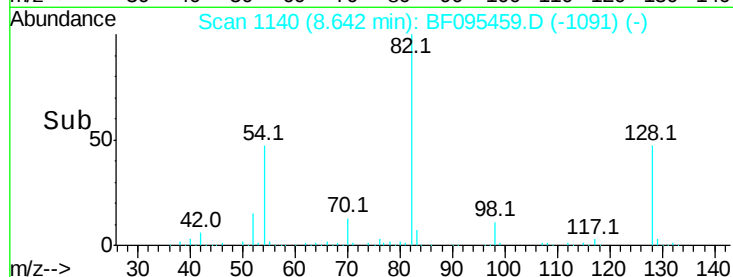
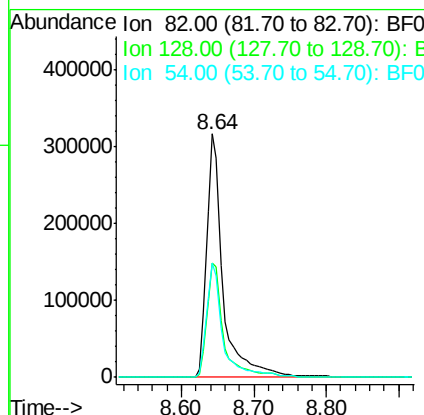
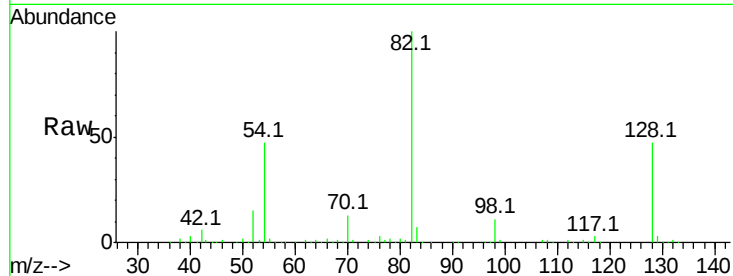
#23
 Nitrobenzene-d5
 Concen: 79.48 ng
 RT: 8.64 min Scan# 1140
 Delta R.T. -0.01 min
 Lab File: BF095459.D
 Acq: 26 May 2017 14:14

Instrument :
 BNA_F
 ClientSampleId :
 EP2-WC8(0-8)

Tot Ion	82	Resp	499167
Ion Ratio	100	Lower	Upper
128	46.8	34.0	51.0
54	47.0	42.2	63.2

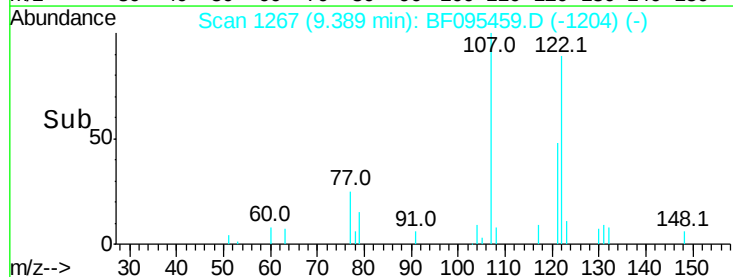
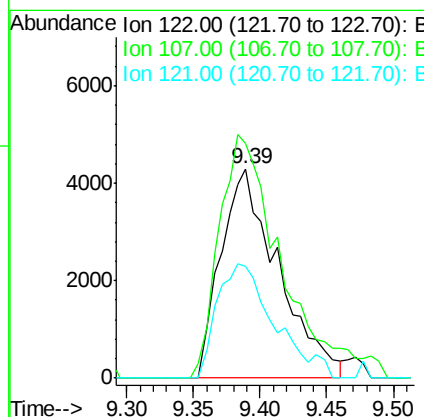
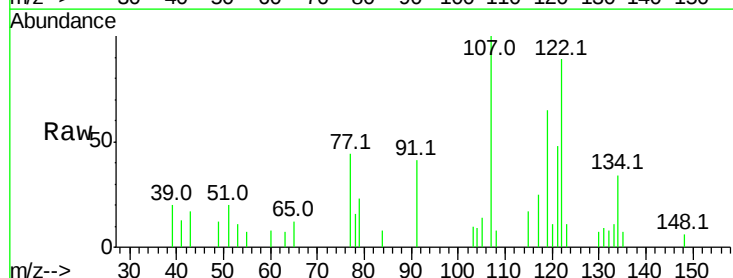
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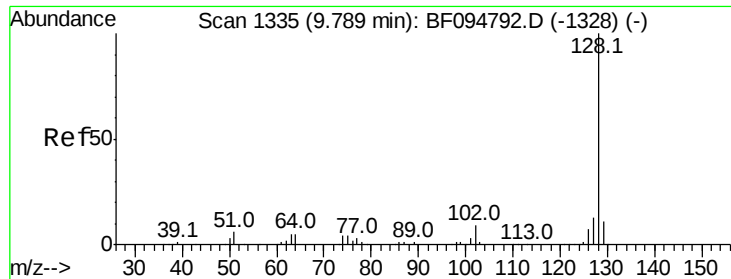
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#27
 2,4-Dimethylphenol
 Concen: 2.24 ng
 RT: 9.39 min Scan# 1267
 Delta R.T. 0.07 min
 Lab File: BF095459.D
 Acq: 26 May 2017 14:14

Tgt Ion	122	Resp	12850
Ion Ratio	100	Lower	Upper
107	111.9	89.2	133.8
121	53.4	45.2	67.8





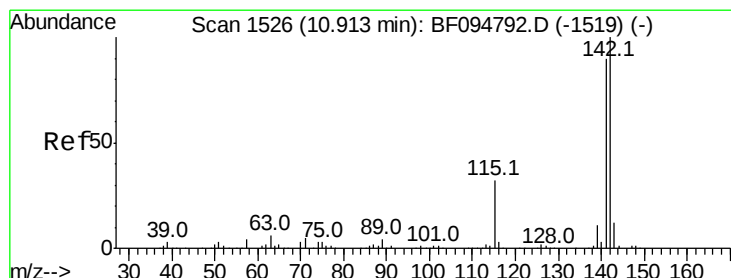
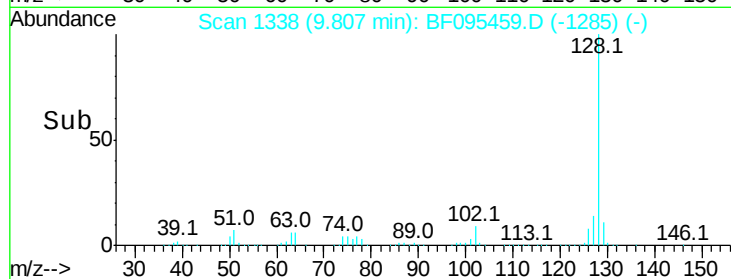
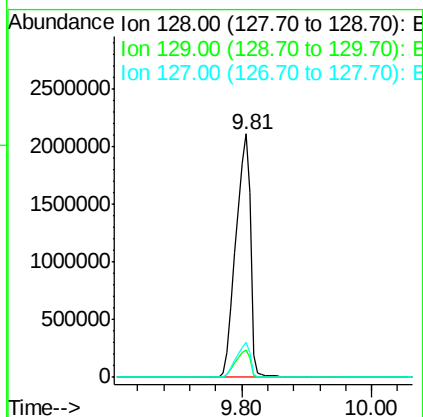
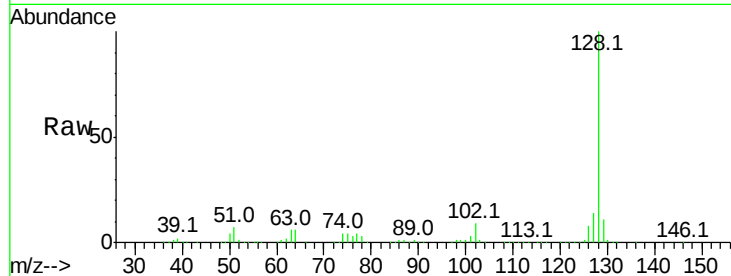
#31
Naphthalene
Concen: 165.48 ng
RT: 9.81 min Scan# 1338
Delta R.T. 0.01 min
Lab File: BF095459.D
Acq: 26 May 2017 14:14

Instrument :
BNA_F
ClientSampleId :
EP2-WC8(0-8)

Tot Ion	Ratio	Lower	Upper
128	100		
129	11.4	9.0	13.6
127	14.2	10.8	16.2

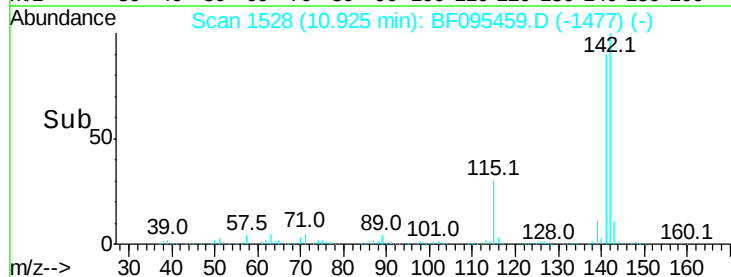
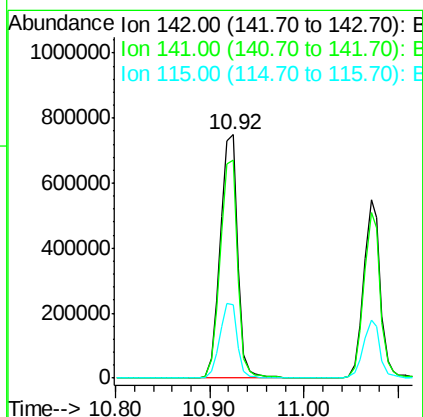
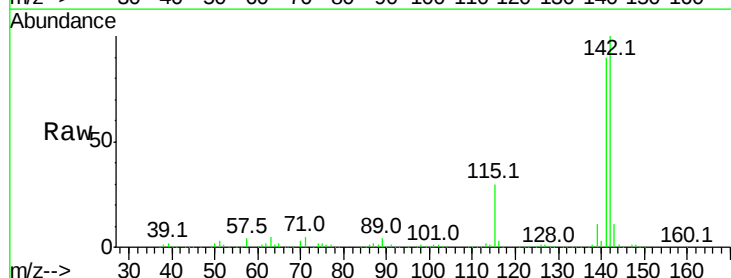
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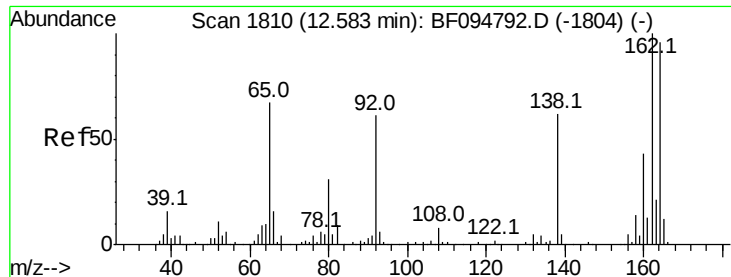
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#37
2-Methylnaphthalene
Concen: 74.79 ng
RT: 10.92 min Scan# 1528
Delta R.T. 0.00 min
Lab File: BF095459.D
Acq: 26 May 2017 14:14

Tgt Ion	Ratio	Lower	Upper
142	100		
141	89.8	71.3	106.9
115	30.4	27.1	40.7





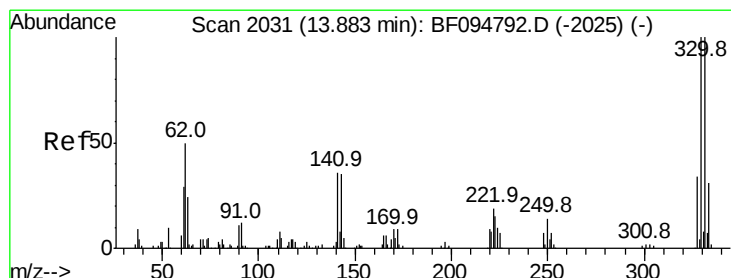
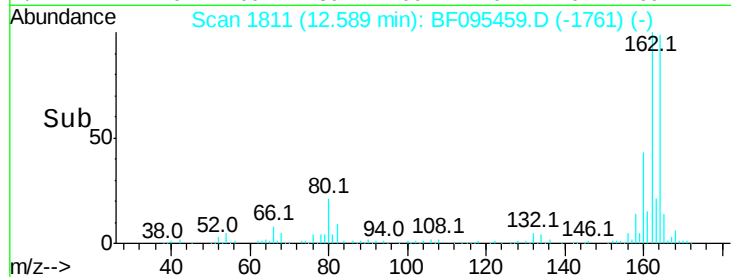
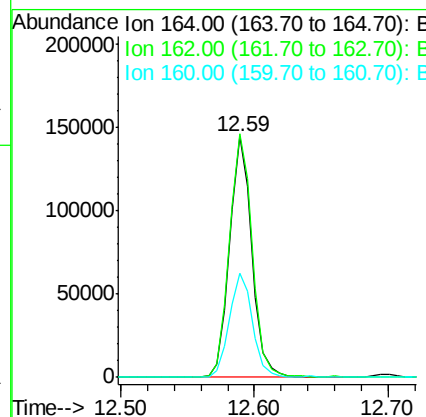
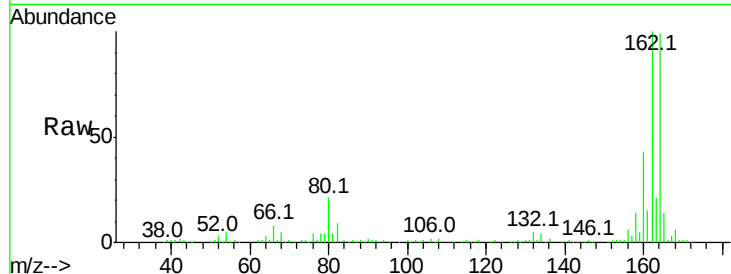
#38
Acenaphthene-d10
Concen: 20.00 ng
RT: 12.59 min Scan# 1811
Delta R.T. -0.01 min
Lab File: BF095459.D
Acq: 26 May 2017 14:14

Instrument :
BNA_F
ClientSampleId :
EP2-WC8(0-8)

Tot Ion	Ratio	Lower	Upper
164	100		
162	101.1	82.6	123.8
160	43.5	36.2	54.2

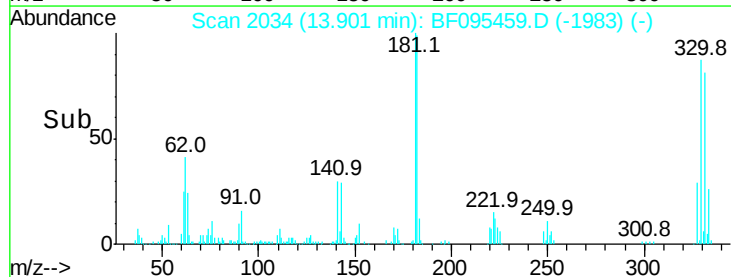
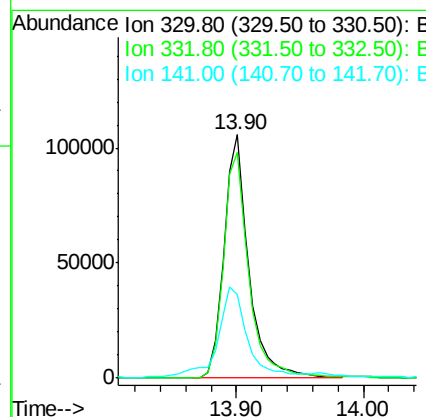
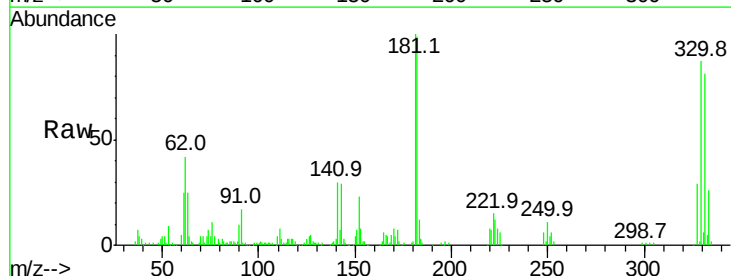
Manual Integrations
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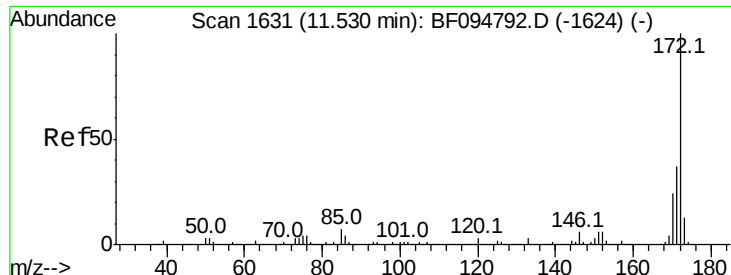
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#41
2,4,6-Tribromophenol
Concen: 102.91 ng
RT: 13.90 min Scan# 2034
Delta R.T. 0.00 min
Lab File: BF095459.D
Acq: 26 May 2017 14:14

Tgt Ion	Ratio	Lower	Upper
330	100		
332	95.4	76.6	115.0
141	44.2	31.4	47.2





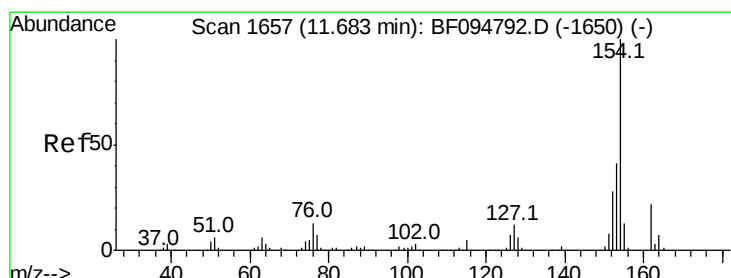
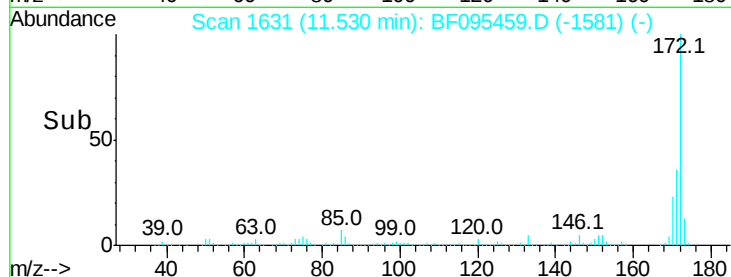
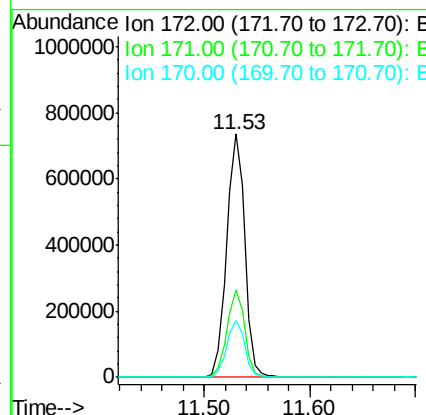
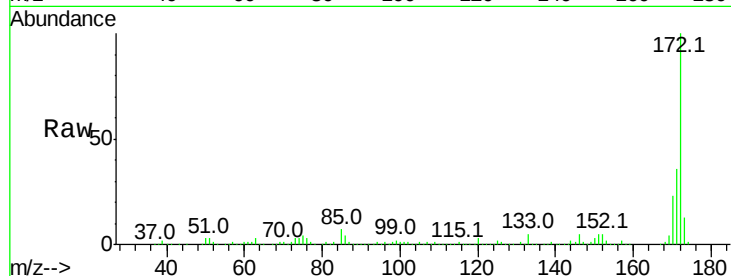
#44
2-Fluorobiphenyl
Concen: 74.76 ng
RT: 11.53 min Scan# 1631
Delta R.T. -0.01 min
Lab File: BF095459.D
Acq: 26 May 2017 14:14

Instrument :
BNA_F
ClientSampleId :
EP2-WC8(0-8)

Tot Ion	Ratio	Resp	Lower	Upper
172	100	885518		
171	36.1		29.6	44.4
170	23.1		19.8	29.8

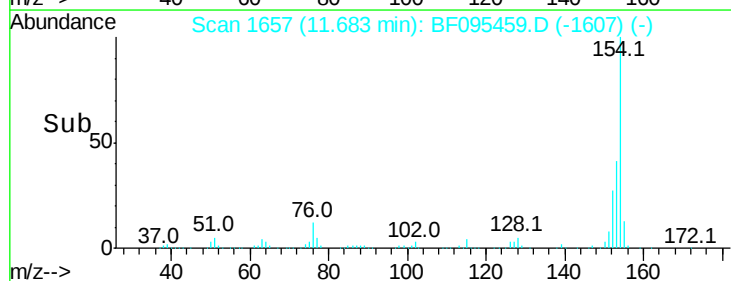
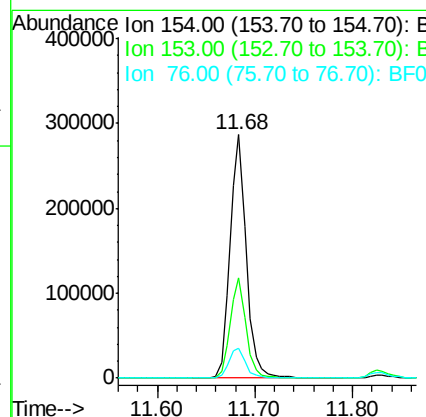
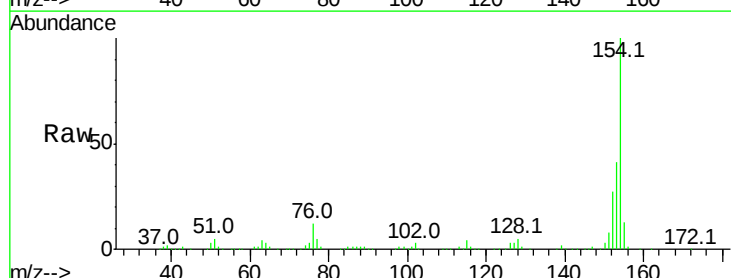
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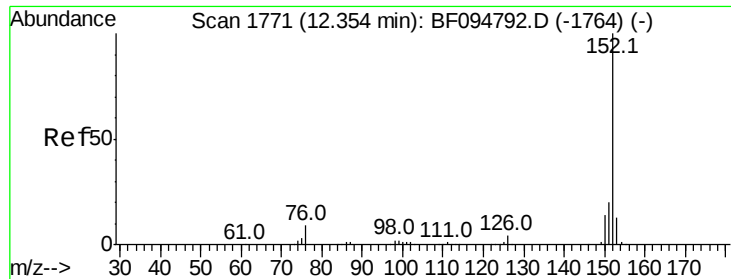
mohammad
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#45
1,1'-Biphenyl
Concen: 22.95 ng
RT: 11.68 min Scan# 1657
Delta R.T. -0.01 min
Lab File: BF095459.D
Acq: 26 May 2017 14:14

Tgt Ion	Ratio	Resp	Lower	Upper
154	100	329350		
153	41.0		21.2	61.2
76	12.4		0.0	29.9





#48

Acenaphthylene

Concen: 2.15 ng

RT: 12.37 min Scan# 1773

Delta R.T. 0.00 min

Lab File: BF095459.D

Acq: 26 May 2017 14:14

Instrument :

BNA_F

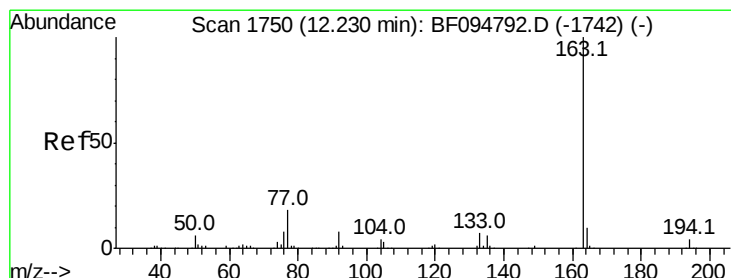
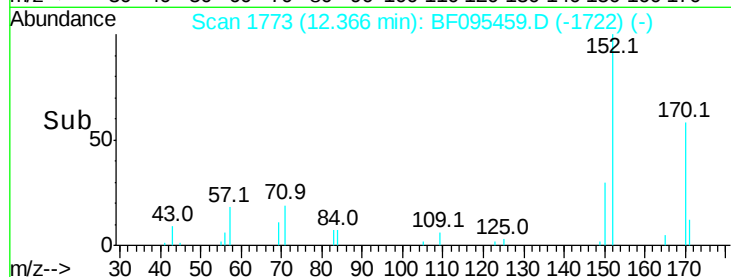
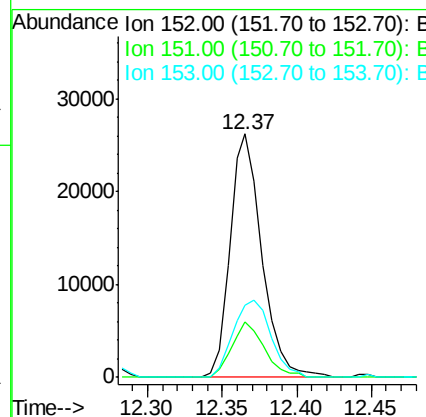
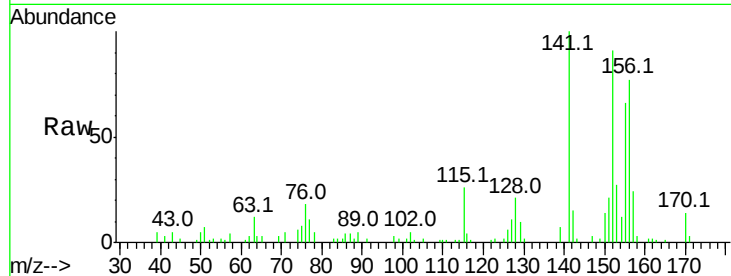
ClientSampleId :

EP2-WC8(0-8)

Tot Ion	Ratio	Resp	Lower	Upper
152	100			
151	22.9	16.8	25.2	
153	29.7	10.8	16.2	

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#49

Dimethylphthalate

Concen: 11.57 ng

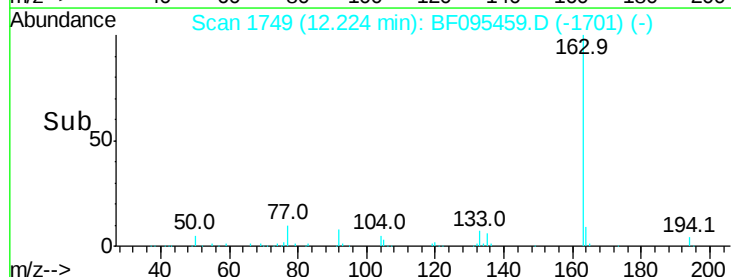
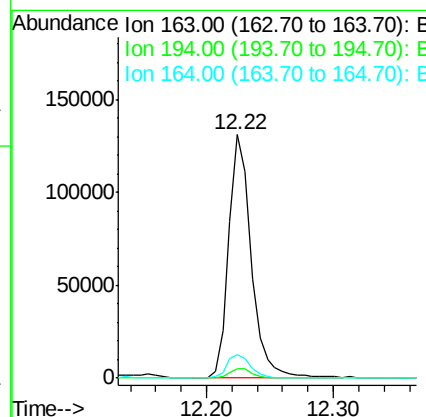
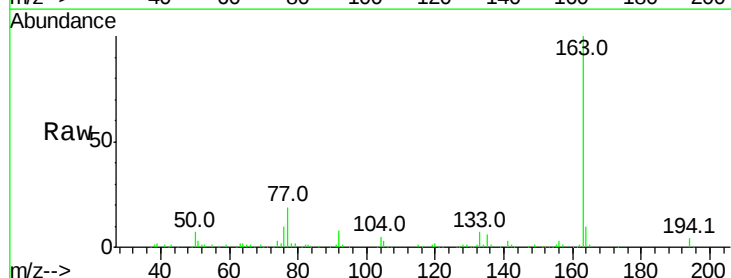
RT: 12.22 min Scan# 1749

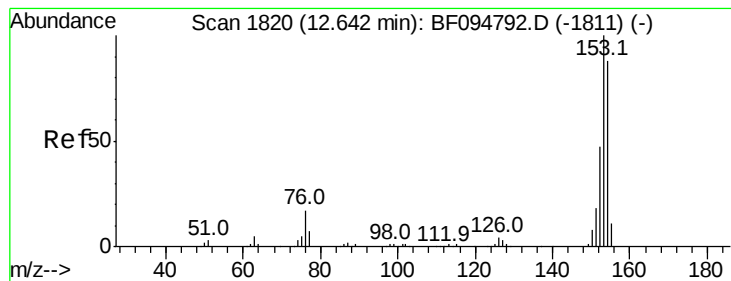
Delta R.T. -0.02 min

Lab File: BF095459.D

Acq: 26 May 2017 14:14

Tgt Ion	Ratio	Resp	Lower	Upper
163	100			
194	3.8	2.6	4.0	
164	9.6	8.4	12.6	





#51

Acenaphthene

Concen: 57.50 ng

RT: 12.65 min Scan# 1821

Delta R.T. 0.00 min

Lab File: BF095459.D

Acq: 26 May 2017 14:14

Instrument :

BNA_F

ClientSampleId :

EP2-WC8(0-8)

Tot Ion:154 Resp: 623420

Ion Ratio Lower Upper

154 100

153 114.1 90.5 135.7

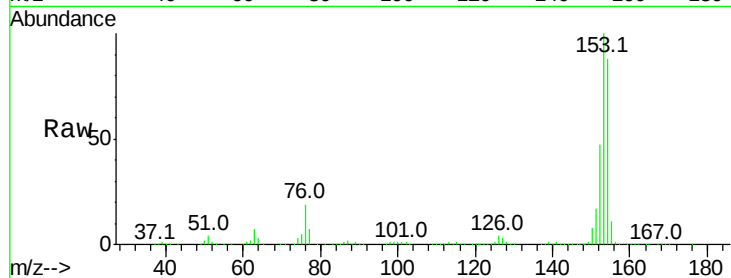
152 53.7 43.6 65.4

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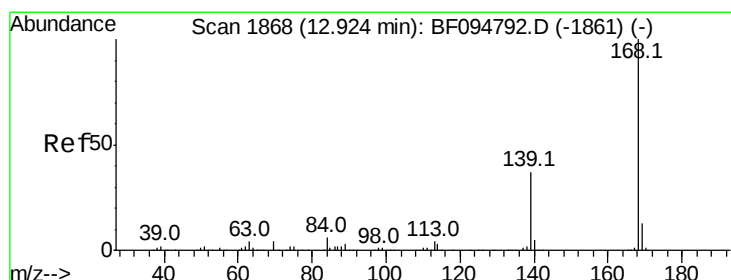
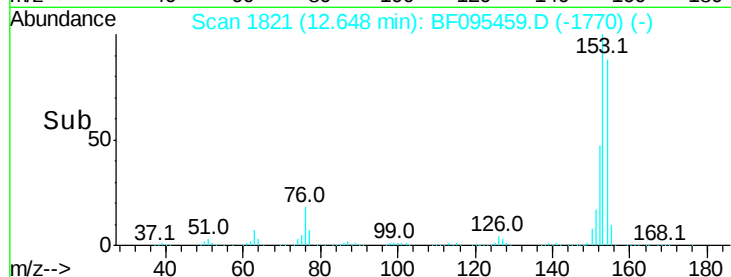
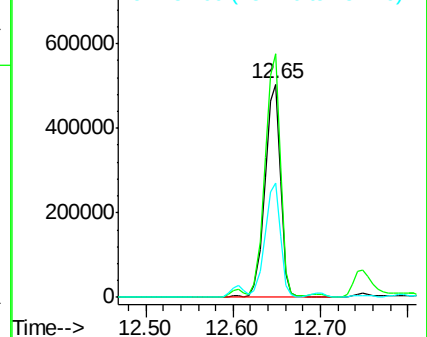
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Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E



#54

Dibenzofuran

Concen: 77.95 ng

RT: 12.94 min Scan# 1870

Delta R.T. 0.00 min

Lab File: BF095459.D

Acq: 26 May 2017 14:14

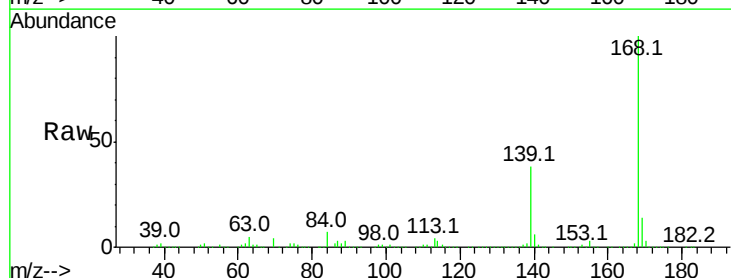
Tgt Ion:168 Resp: 1169646

Ion Ratio Lower Upper

168 100

139 37.7 30.6 45.8

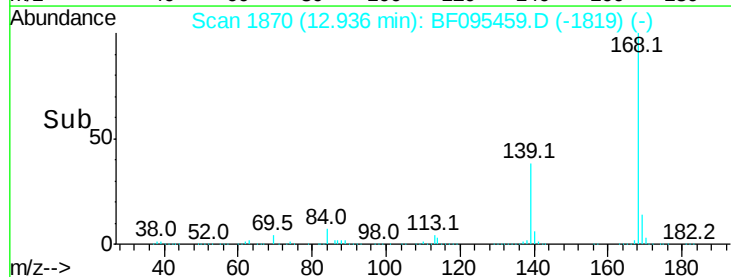
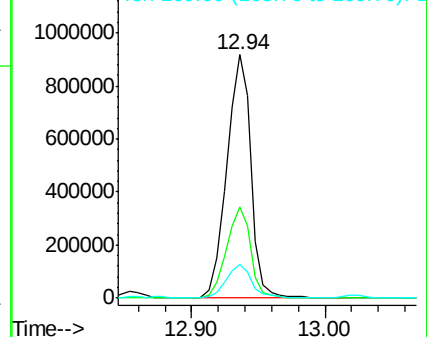
169 13.8 10.8 16.2

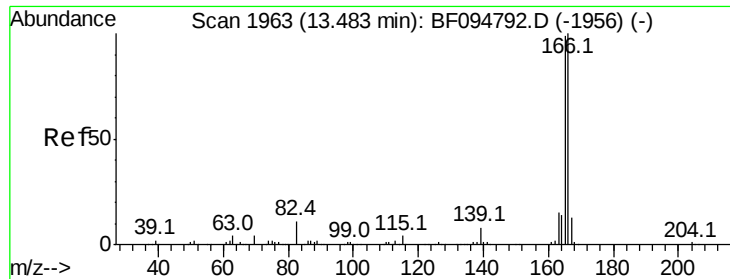


Abundance Ion 168.00 (167.70 to 168.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 169.00 (168.70 to 169.70): E





#57

Fluorene

Concen: 32.21 ng

RT: 13.49 min Scan# 1964

Delta R.T. -0.01 min

Lab File: BF095459.D

Acq: 26 May 2017 14:14

Instrument :

BNA_F

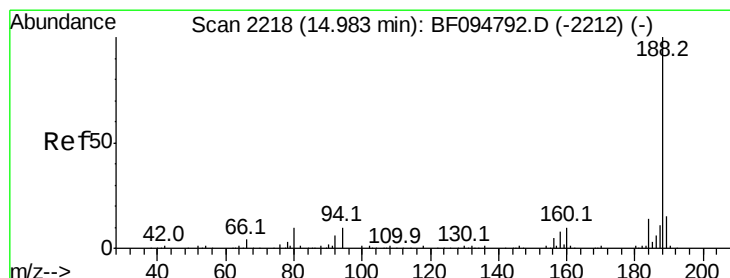
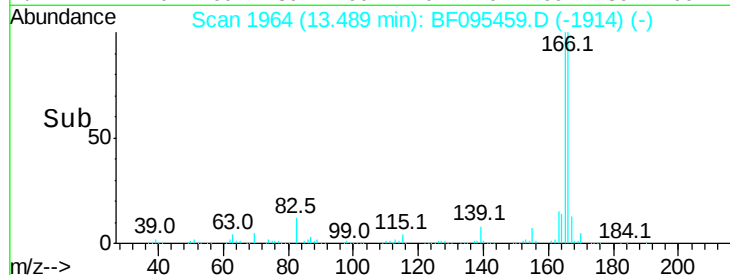
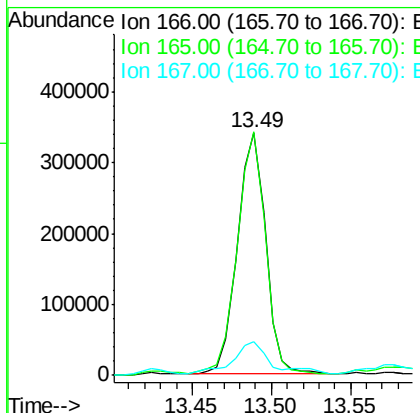
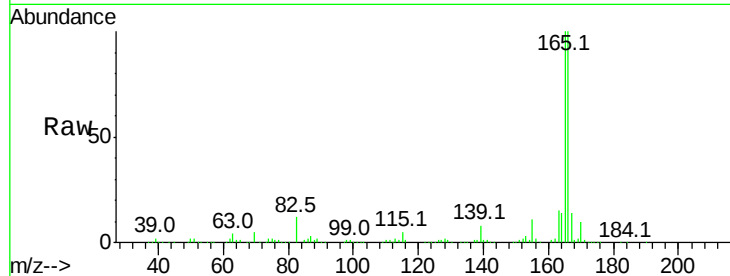
ClientSampleId :

EP2-WC8(0-8)

Tot Ion:	166	Resp:	420286
Ion Ratio	Lower	Upper	
166	100		
165	100.4	78.8	118.2
167	13.7	10.6	16.0

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#63

Phenanthrene-d10

Concen: 20.00 ng

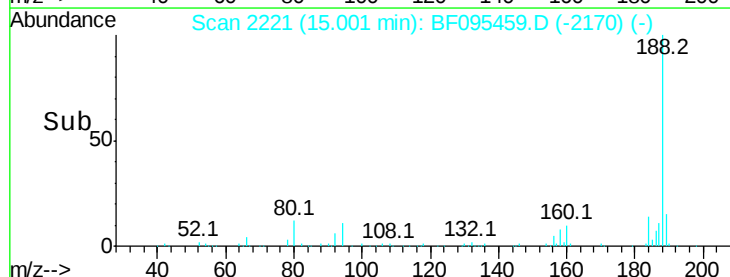
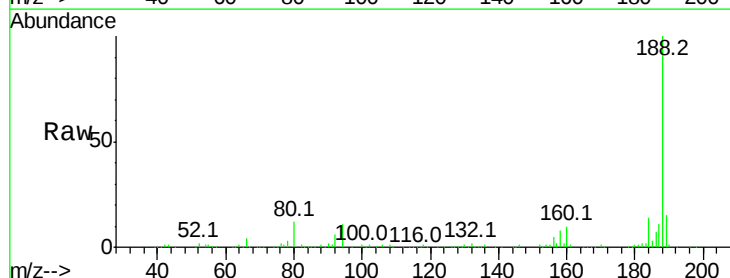
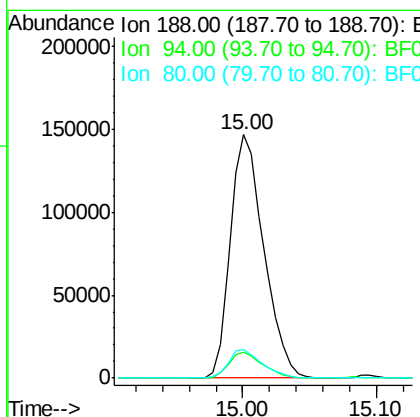
RT: 15.00 min Scan# 2221

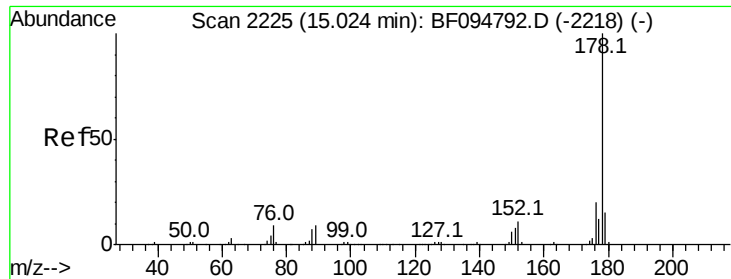
Delta R.T. 0.00 min

Lab File: BF095459.D

Acq: 26 May 2017 14:14

Tgt Ion:	188	Resp:	256779
Ion Ratio	Lower	Upper	
188	100		
94	10.9	9.4	14.2
80	11.9	10.2	15.2





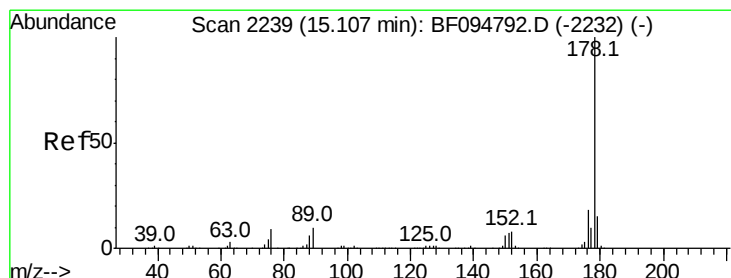
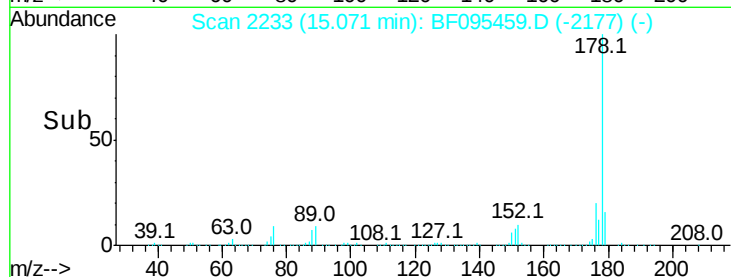
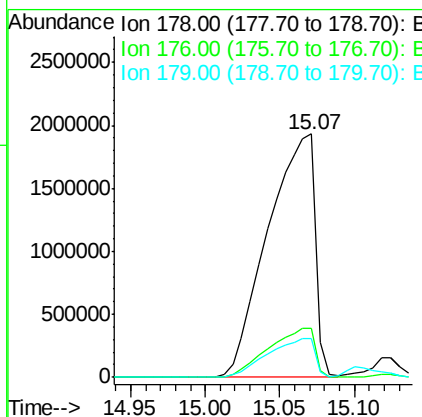
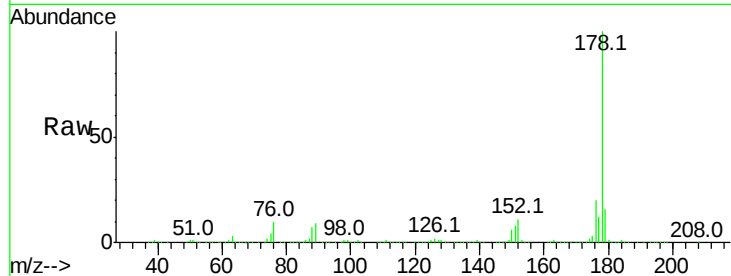
#70
Phenanthrene
Concen: 288.57 ng
RT: 15.07 min Scan# 2233
Delta R.T. 0.03 min
Lab File: BF095459.D
Acq: 26 May 2017 14:14

Instrument :
BNA_F
ClientSampleId :
EP2-WC8(0-8)

Tot Ion:178 Resp: 4257457
Ion Ratio Lower Upper
178 100
176 20.2 16.2 24.4
179 15.7 12.6 19.0

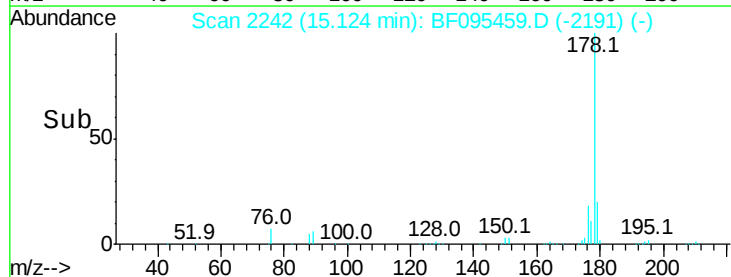
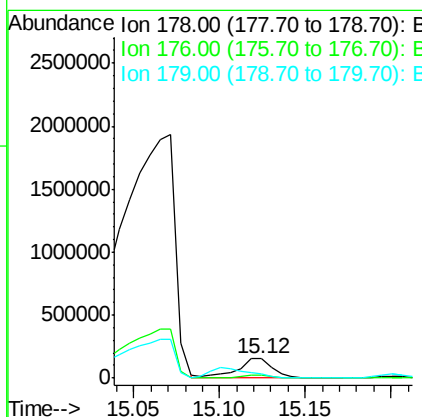
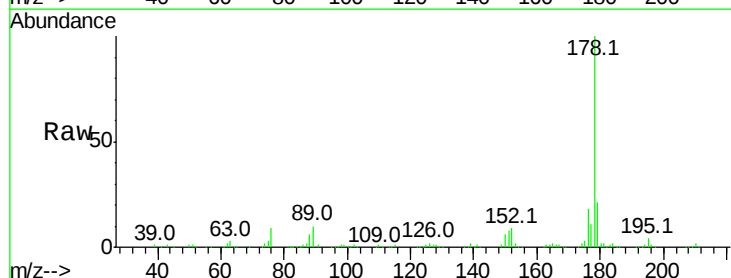
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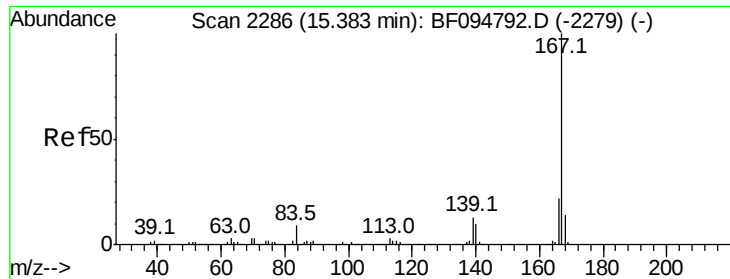
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#71
Anthracene
Concen: 15.11 ng m
RT: 15.12 min Scan# 2242
Delta R.T. 0.00 min
Lab File: BF095459.D
Acq: 26 May 2017 14:14

Tgt Ion:178 Resp: 227709
Ion Ratio Lower Upper
178 100
176 18.4 15.8 23.8
179 20.8 12.7 19.1#





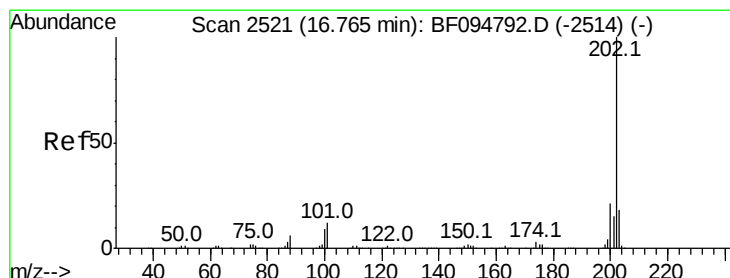
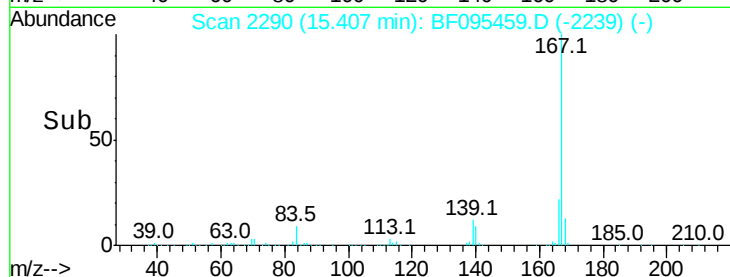
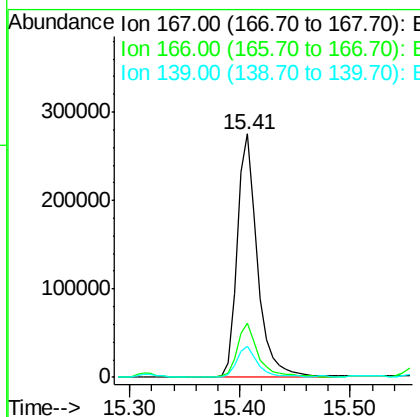
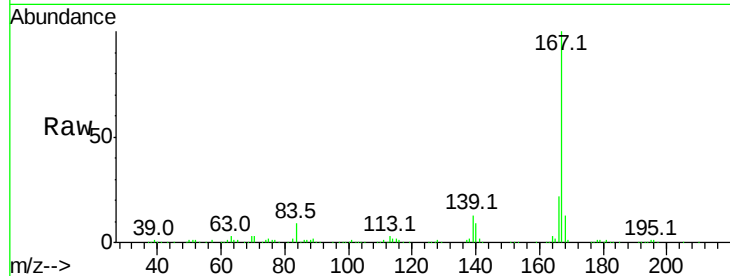
#72
 Carbazole
 Concen: 25.93 ng
 RT: 15.41 min Scan# 2290
 Delta R.T. 0.00 min
 Lab File: BF095459.D
 Acq: 26 May 2017 14:14

Instrument :
 BNA_F
 ClientSampleId :
 EP2-WC8(0-8)

Tot Ion	Ratio	Resp	Lower	Upper
167	100			
166	22.1	18.1	27.1	
139	12.7	11.7	17.5	

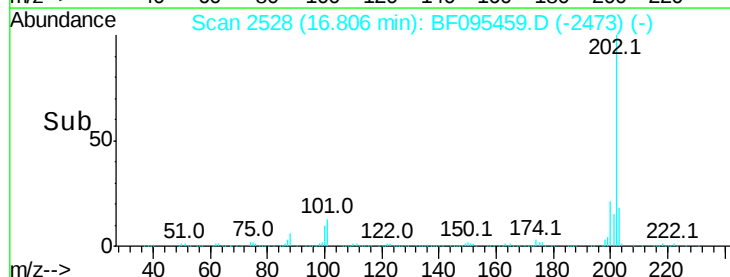
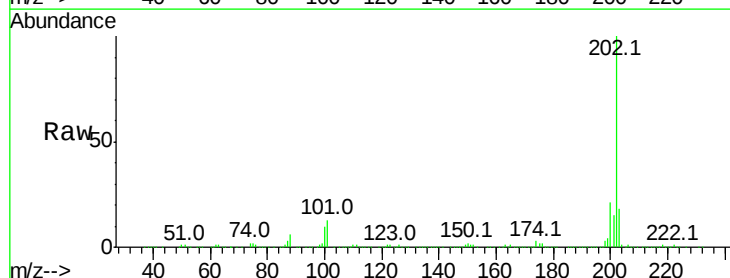
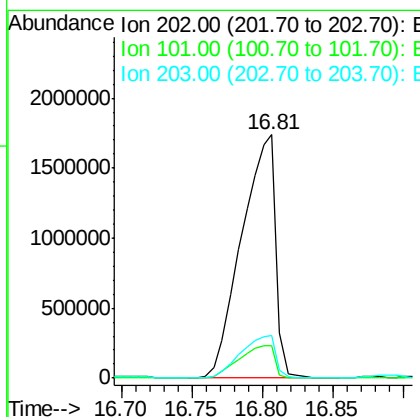
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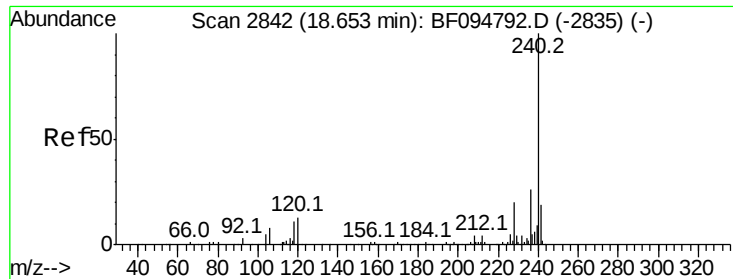
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#74
 Fluoranthene
 Concen: 193.61 ng
 RT: 16.81 min Scan# 2528
 Delta R.T. 0.02 min
 Lab File: BF095459.D
 Acq: 26 May 2017 14:14

Tgt Ion	Ratio	Resp	Lower	Upper
202	100			
101	13.4	0.0	33.2	
203	17.6	0.0	38.1	





#75

Chrysene-d12

Concen: 20.00 ng

RT: 18.68 min Scan# 2847

Delta R.T. 0.01 min

Lab File: BF095459.D

Acq: 26 May 2017 14:14

Instrument :

BNA_F

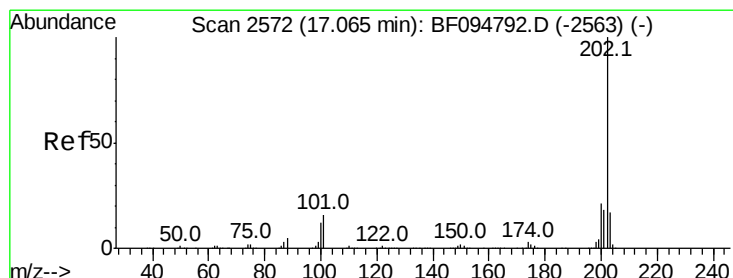
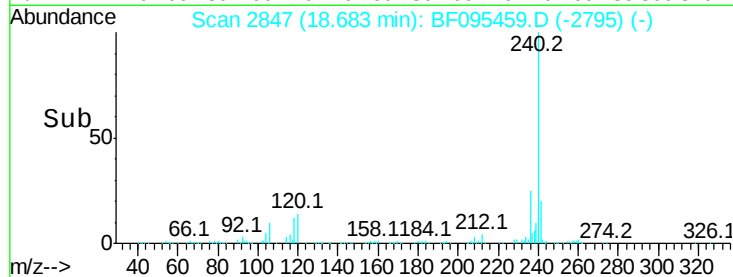
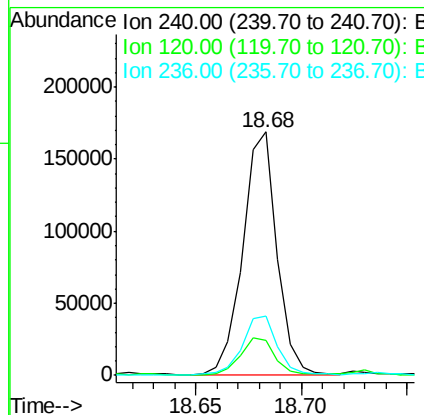
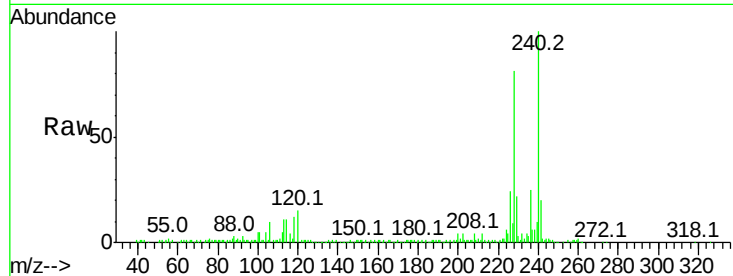
ClientSampleId :

EP2-WC8(0-8)

Tot Ion:	240	Resp:	188471
Ion Ratio	Lower	Upper	
240	100		
120	14.6	5.8	8.8#
236	24.6	20.5	30.7

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#77

Pyrene

Concen: 183.78 ng

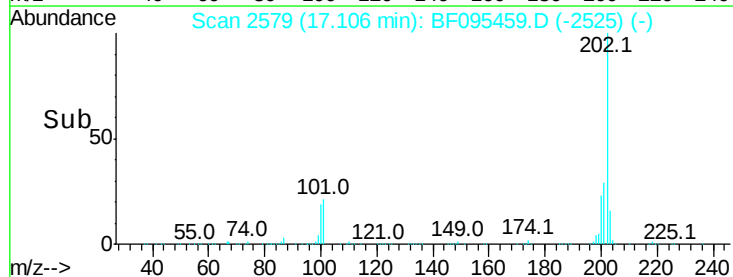
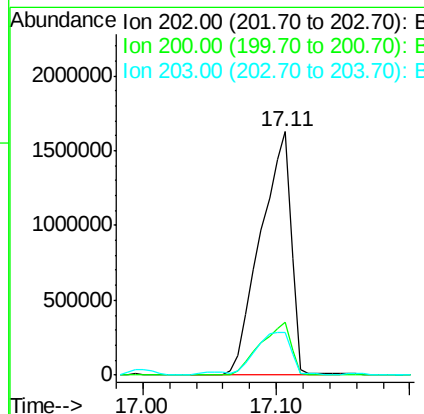
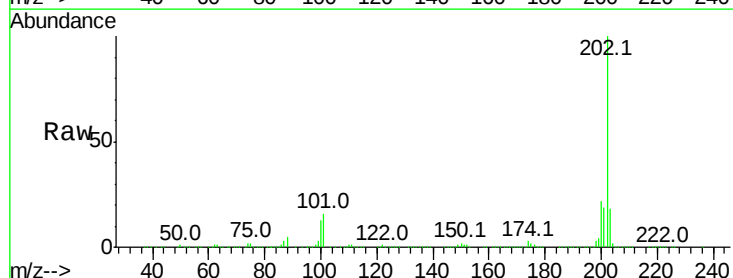
RT: 17.11 min Scan# 2579

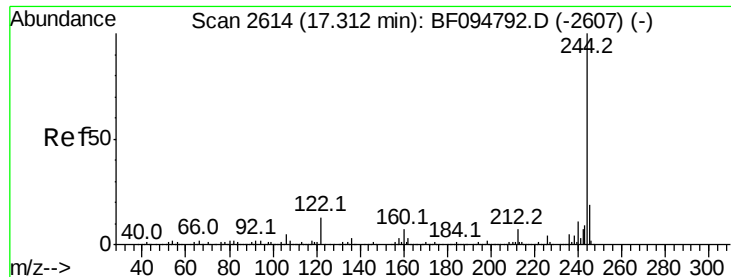
Delta R.T. 0.02 min

Lab File: BF095459.D

Acq: 26 May 2017 14:14

Tgt Ion:	202	Resp:	2590531
Ion Ratio	Lower	Upper	
202	100		
200	21.8	17.6	26.4
203	17.8	14.4	21.6





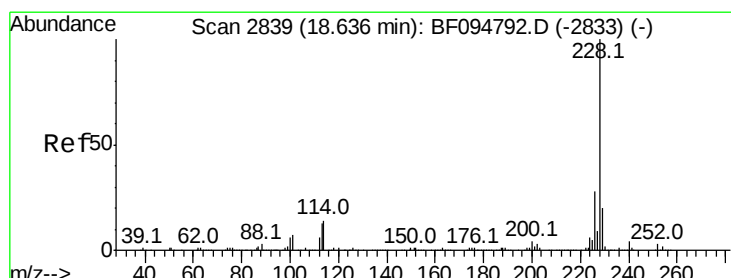
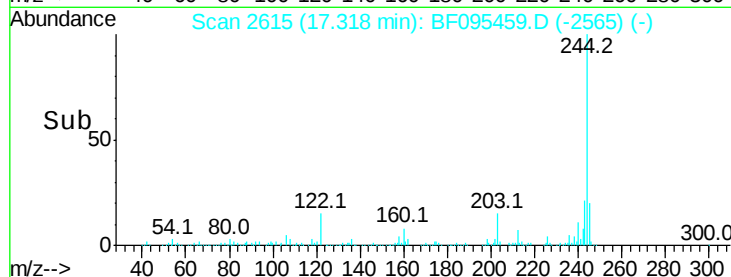
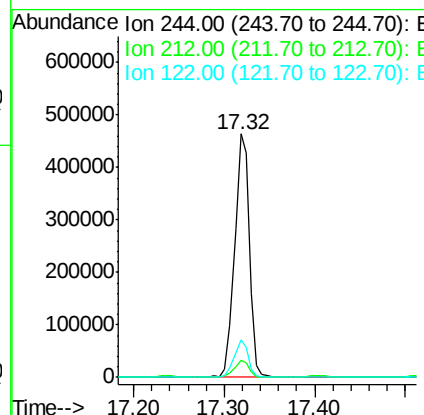
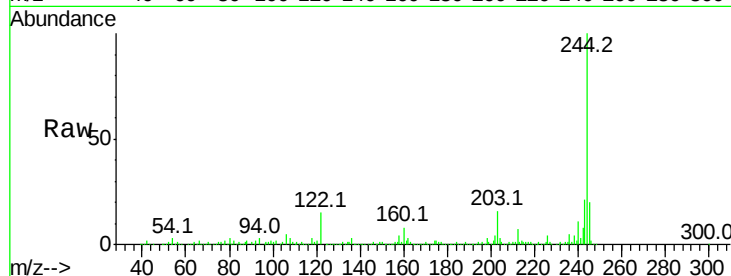
#78
 Terphenyl-d14
 Concen: 61.63 ng
 RT: 17.32 min Scan# 2615
 Delta R.T. -0.01 min
 Lab File: BF095459.D
 Acq: 26 May 2017 14:14

Instrument :
 BNA_F
 ClientSampleId :
 EP2-WC8(0-8)

Tot Ion	Ratio	Lower	Upper
244	100		
212	7.2	6.0	9.0
122	15.3	10.3	15.5

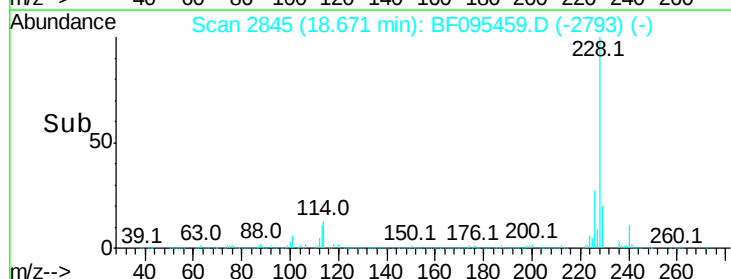
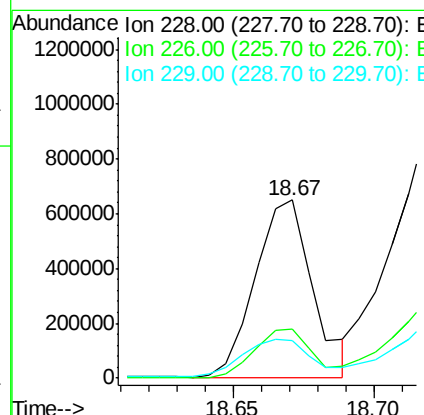
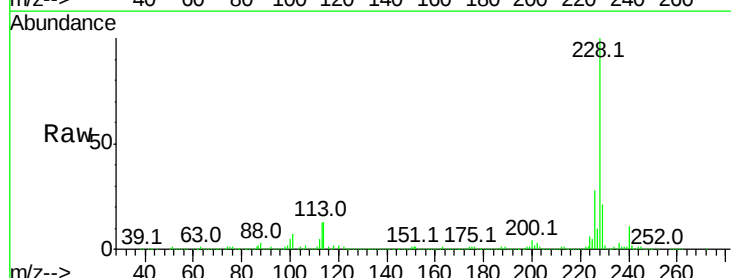
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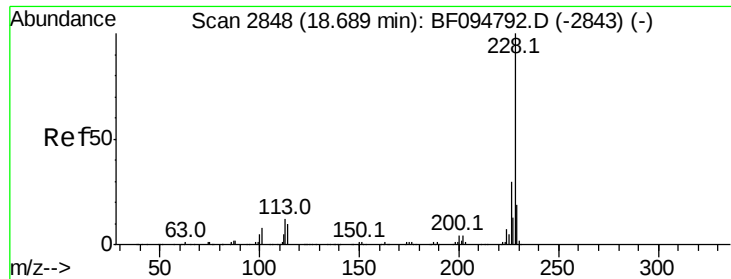
mohammad
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#80
 Benzo(a)anthracene
 Concen: 83.20 ng
 RT: 18.67 min Scan# 2845
 Delta R.T. 0.01 min
 Lab File: BF095459.D
 Acq: 26 May 2017 14:14

Tgt Ion	Ratio	Lower	Upper
228	100		
226	27.7	22.6	33.8
229	20.9	16.3	24.5





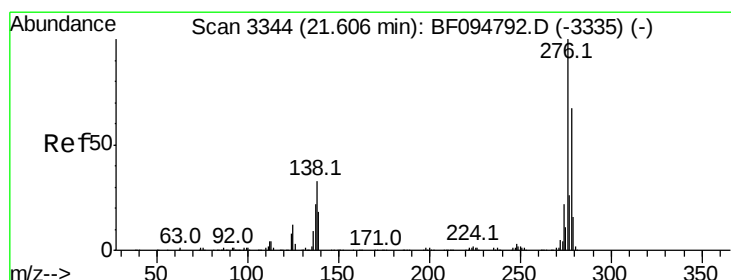
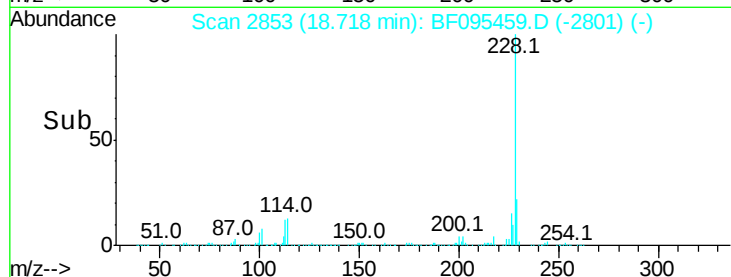
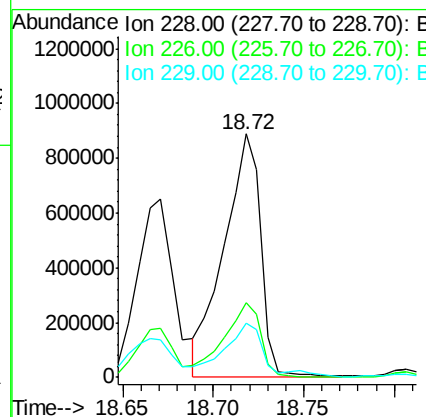
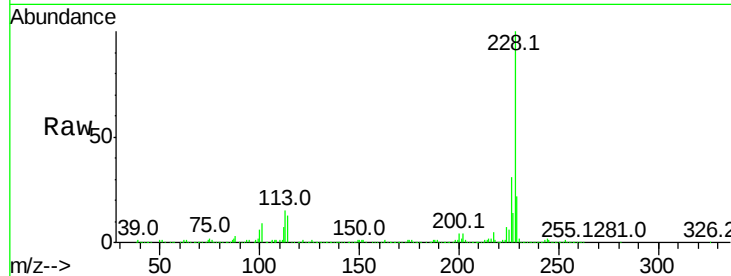
#82
Chrysene
Concen: 116.90 ng
RT: 18.72 min Scan# 2853
Delta R.T. 0.01 min
Lab File: BF095459.D
Acq: 26 May 2017 14:14

Instrument :
BNA_F
ClientSampleId :
EP2-WC8(0-8)

Tot Ion:228 Resp: 1239871
Ion Ratio Lower Upper
228 100
226 30.6 24.9 37.3
229 22.0 15.8 23.6

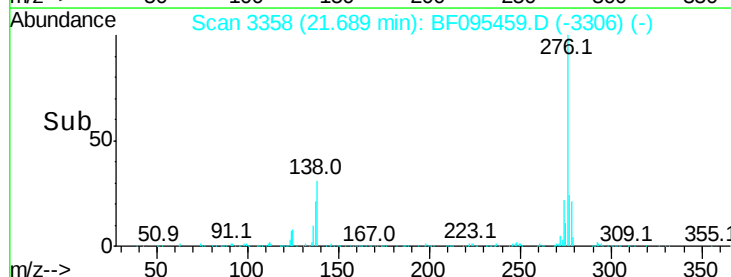
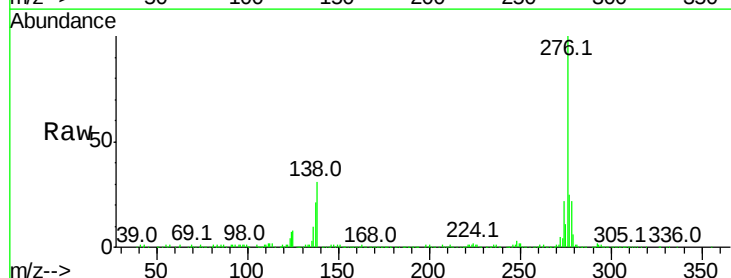
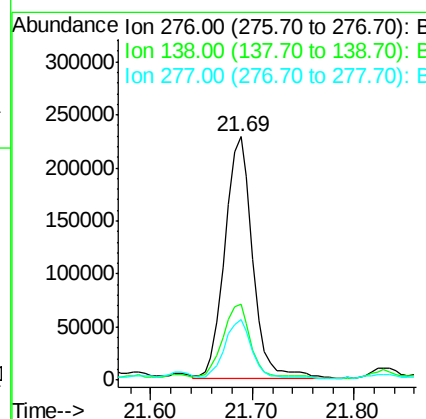
Manual Integrations
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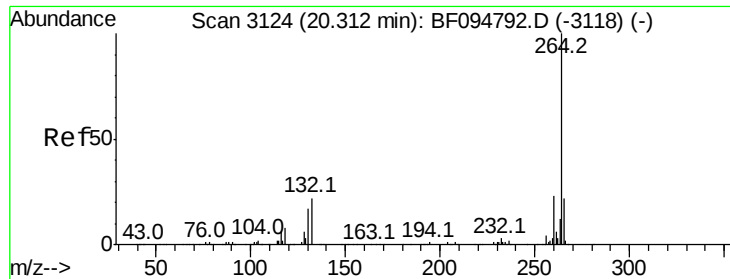
mohammad
5/30/2017 1:35:56 PM



#85
Indeno(1,2,3-cd)pyrene
Concen: 50.33 ng
RT: 21.69 min Scan# 3358
Delta R.T. 0.01 min
Lab File: BF095459.D
Acq: 26 May 2017 14:14

Tgt Ion:276 Resp: 433475
Ion Ratio Lower Upper
276 100
138 28.9 27.8 41.6
277 23.5 20.2 30.4





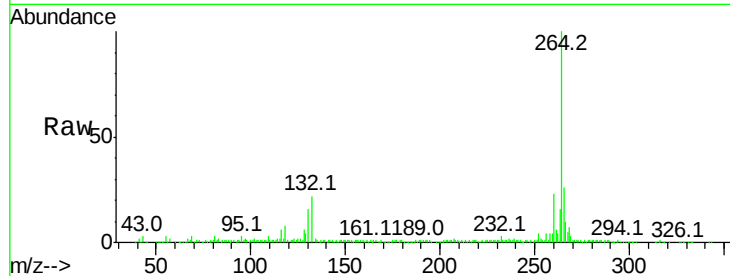
#86
Pervlene-d12
Concen: 20.00 ng
RT: 20.36 min Scan# 3132
Delta R.T. 0.01 min
Lab File: BF095459.D
Acq: 26 May 2017 14:14

Instrument :
BNA_F
ClientSampleId :
EP2-WC8(0-8)

Tot Ion	Ratio	Lower	Upper
264	100		
260	22.6	19.5	29.3
265	25.6	17.2	25.8

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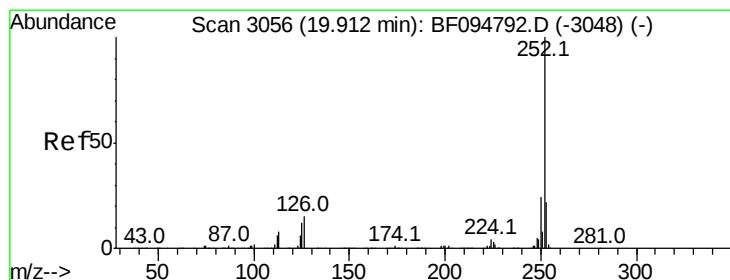
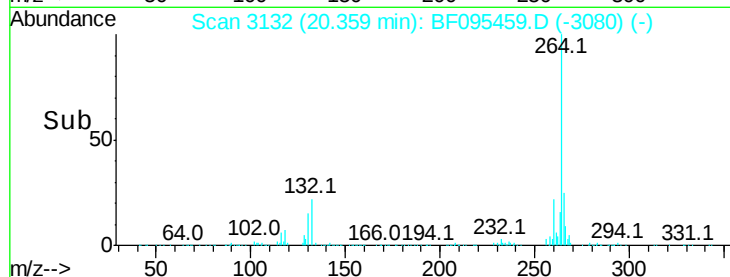
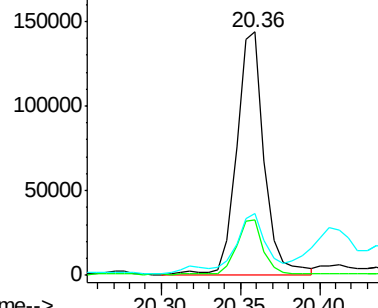


Abundance

Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E



#87
Benzo(b)fluoranthene
Concen: 126.93 ng m
RT: 19.96 min Scan# 3064
Delta R.T. 0.02 min
Lab File: BF095459.D
Acq: 26 May 2017 14:14

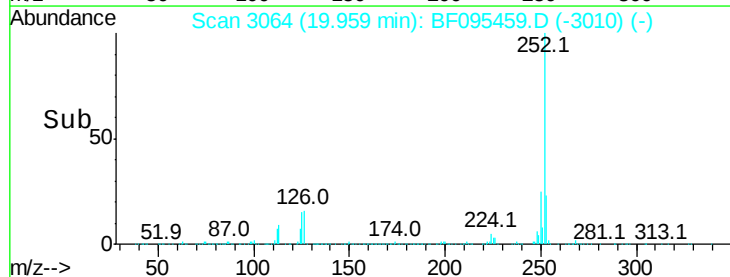
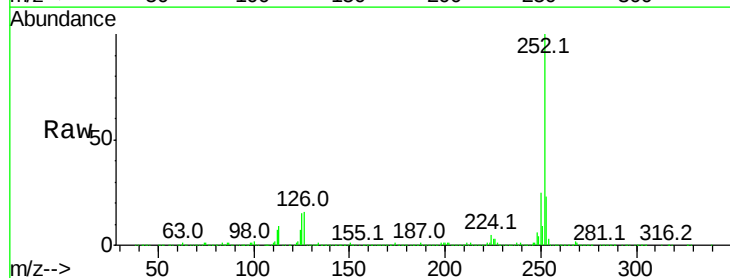
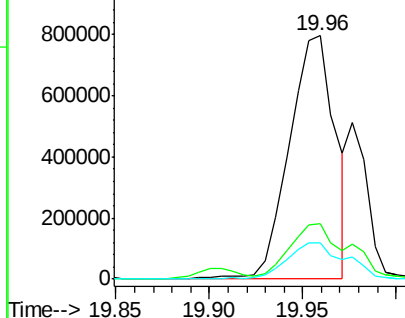
Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.9	18.1	27.1
125	14.7	9.8	14.8

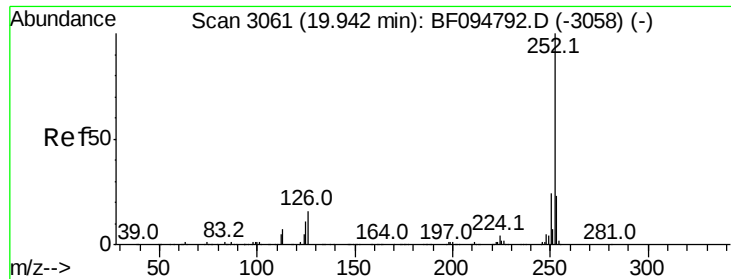
Abundance

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





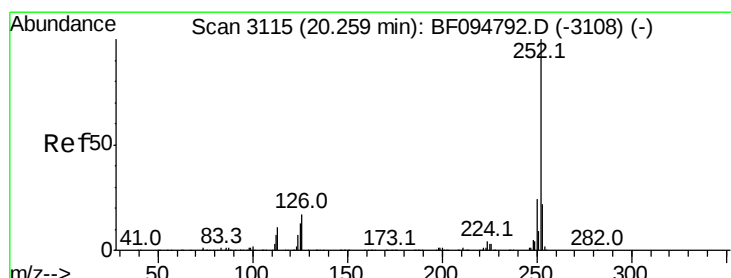
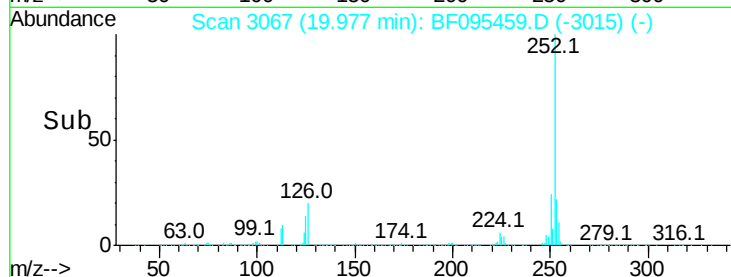
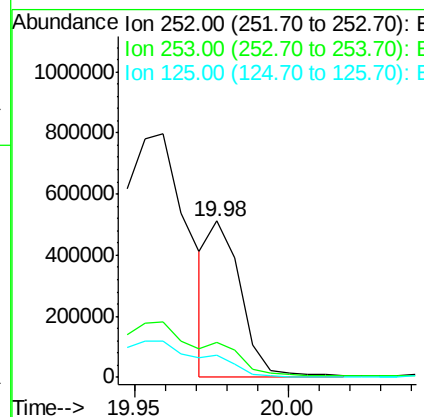
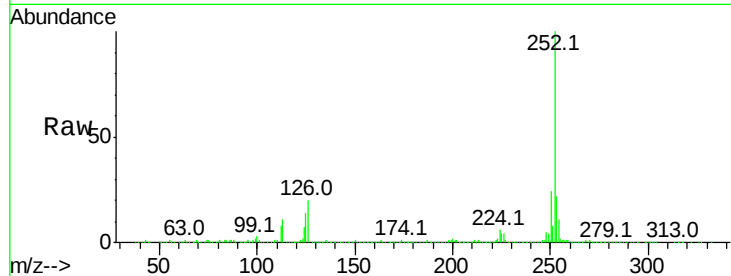
#88
Benzo(k)fluoranthene
Concen: 36.40 ng m
RT: 19.98 min Scan# 3067
Delta R.T. 0.01 min
Lab File: BF095459.D
Acq: 26 May 2017 14:14

Instrument :
BNA_F
ClientSampleId :
EP2-WC8(0-8)

Tot Ion	Ratio	Lower	Upper
252	100		
253	22.2	18.4	27.6
125	13.9	13.1	19.7

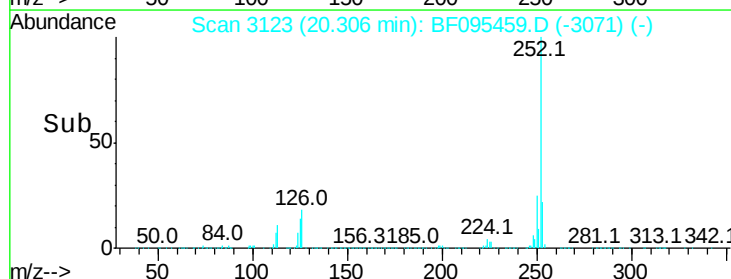
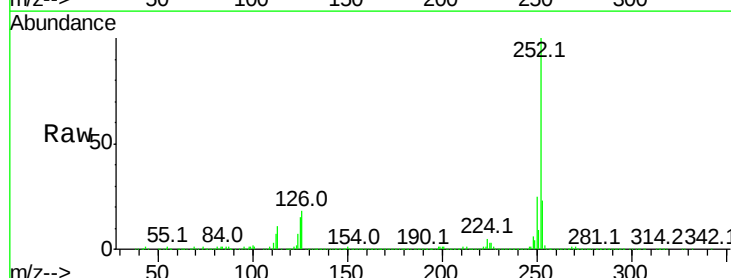
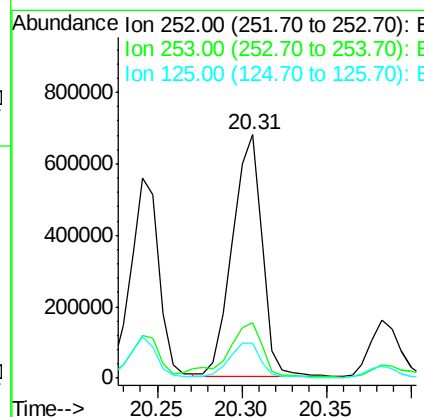
Manual Integrations
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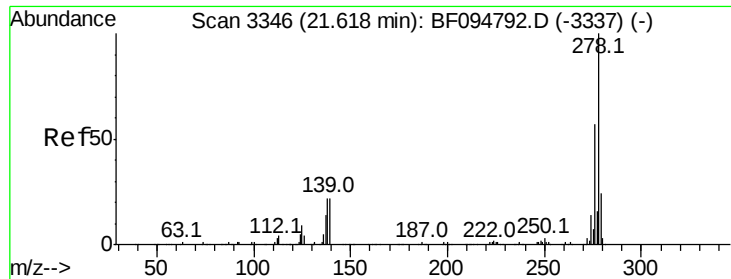
mohammad
5/30/2017 1:35:56 PM



#89
Benzo(a)pyrene
Concen: 84.20 ng
RT: 20.31 min Scan# 3123
Delta R.T. 0.01 min
Lab File: BF095459.D
Acq: 26 May 2017 14:14

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.9	17.5	26.3
125	14.5	11.0	16.4





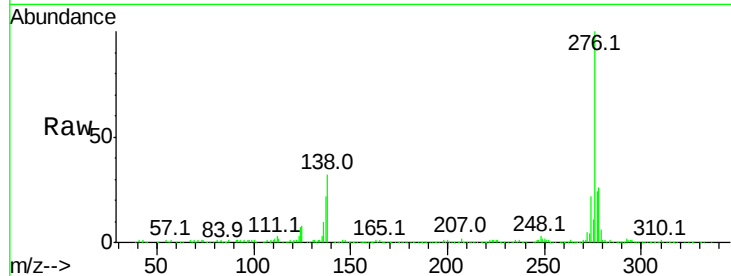
#90
Dibenzo(a,h)anthracene
Concen: 12.93 ng/mL
RT: 21.68 min Scan# 3357
Delta R.T. 0.00 min
Lab File: BF095459.D
Acq: 26 May 2017 14:14

Instrument :
BNA_F
ClientSampleId :
EP2-WC8(0-8)

Tot Ion	Ratio	Lower	Upper
278	100		
139	0.0	16.6	24.8
279	24.5	19.3	28.9

Manual Integrations
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5/30/2017 1:35:56 PM

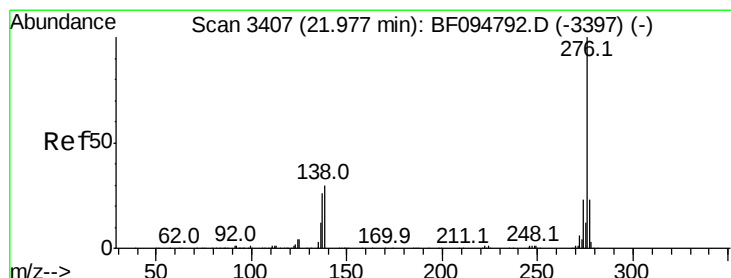
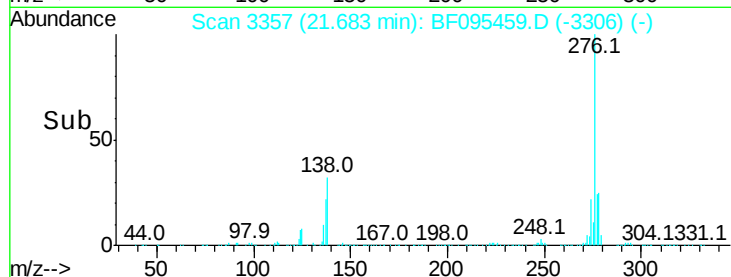
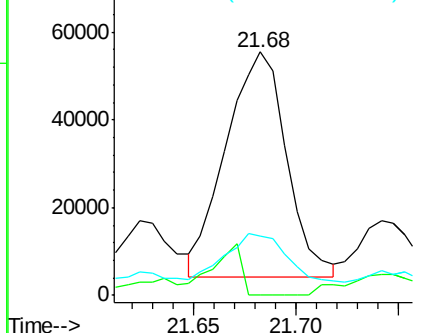


Abundance

Ion 278.00 (277.70 to 278.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 279.00 (278.70 to 279.70): E



#91
Benzo(g,h,i)perylene
Concen: 51.16 ng/mL
RT: 22.07 min Scan# 3423
Delta R.T. 0.00 min
Lab File: BF095459.D
Acq: 26 May 2017 14:14

Tgt Ion	Ratio	Lower	Upper
276	100		
277	24.6	18.6	28.0
138	30.7	25.4	38.0

Abundance

Ion 276.00 (275.70 to 276.70): E

Ion 277.00 (276.70 to 277.70): E

Ion 138.00 (137.70 to 138.70): E

