

Data Path : Z:\HPCHEM1\BNA F\DATA\BF052617\
 Data File : BF095475.D
 Acq On : 26 May 2017 22:51
 Operator : SJ/MA
 Sample : I3240-03 10X
 Misc :
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 EP2-WC7(0-6.5)

Manual Integrations
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 5/30/2017 1:36:49 PM

Quant Time: May 30 11:50:58 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	86955	20.00	ng	0.00
21) Naphthalene-d8	9.76	136	350285	20.00	ng	0.00
38) Acenaphthene-d10	12.60	164	140146	20.00	ng	0.00
63) Phenanthrene-d10	15.00	188	205330	20.00	ng	0.00
75) Chrysene-d12	18.69	240	164320	20.00	ng	0.01
86) Perylene-d12	20.37	264	120452	20.00	ng	0.01

System Monitoring Compounds

5) 2-Fluorophenol	5.80	112	46198m	8.86	ng	0.09
7) Phenol-d6	7.38	99	49113m	7.85	ng	0.08
23) Nitrobenzene-d5	8.69	82	33449	6.02	ng	0.04
41) 2,4,6-Tribromophenol	13.92	330	8323	7.25	ng	0.02
44) 2-Fluorobiphenyl	11.54	172	71543	7.35	ng	0.00
78) Terphenyl-d14	17.32	244	43327	5.81	ng	0.00

Target Compounds

						Qvalue
31) Naphthalene	9.80	128	71419	4.06	ng	99
37) 2-Methylnaphthalene	10.93	142	57892	5.01	ng	93
51) Acenaphthene	12.65	154	25926	2.91	ng	94
57) Fluorene	13.49	166	31941	2.98	ng	# 95
70) Phenanthrene	15.04	178	325770	27.61	ng	99
71) Anthracene	15.12	178	73946m	6.14	ng	
72) Carbazole	15.42	167	26074	2.38	ng	# 81
74) Fluoranthene	16.79	202	450248	37.20	ng	99
77) Pyrene	17.09	202	418164	34.03	ng	95
80) Benzo(a)anthracene	18.68	228	164373	17.19	ng	97
82) Chrysene	18.72	228	161370	17.45	ng	98
83) Bis(2-ethylhexyl)phthalate	18.73	149	142237	17.46	ng	# 97
85) Indeno(1,2,3-cd)pyrene	21.71	276	68138	9.07	ng	94
87) Benzo(b)fluoranthene	19.96	252	168577m	22.65	ng	
88) Benzo(k)fluoranthene	19.98	252	59228m	8.25	ng	
89) Benzo(a)pyrene	20.31	252	109468	15.94	ng	# 77
90) Dibenzo(a,h)anthracene	21.70	278	17426	3.07	ng	# 57
91) Benzo(g,h,i)perylene	22.09	276	65541	11.77	ng	# 91

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

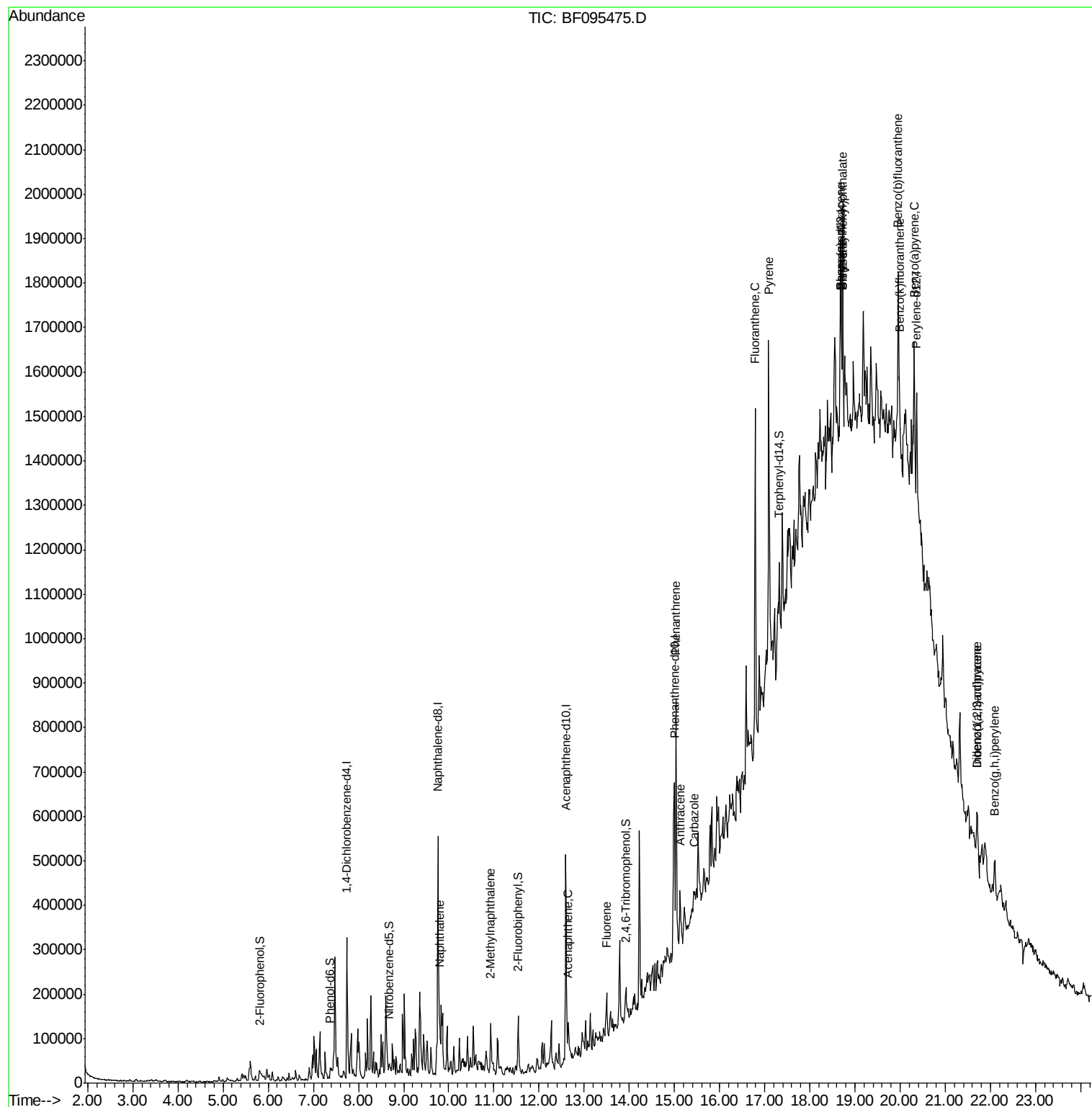
Data Path : Z:\HPCHEM1\BNA F\DATA\BF052617\
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#1

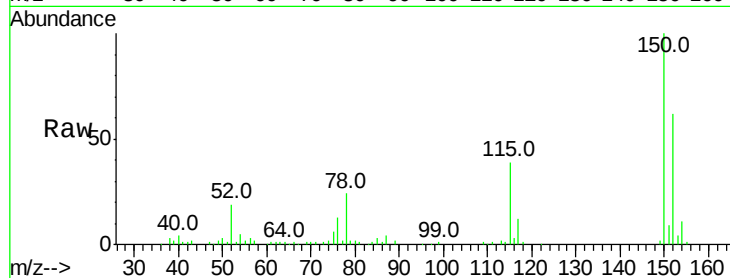
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 7.74 min Scan# 987
Delta R.T. 0.00 min
Lab File: BF095475.D
Acq: 26 May 2017 22:51

Instrument :
BNA_F
ClientSampleId :
EP2-WC7(0-6.5)

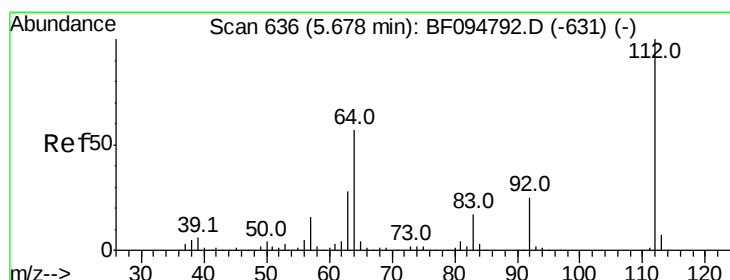
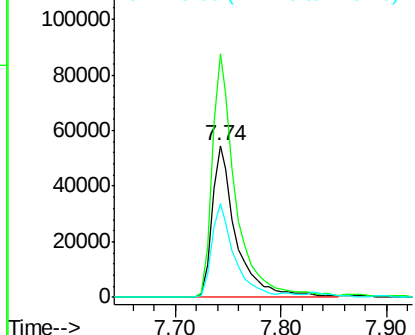
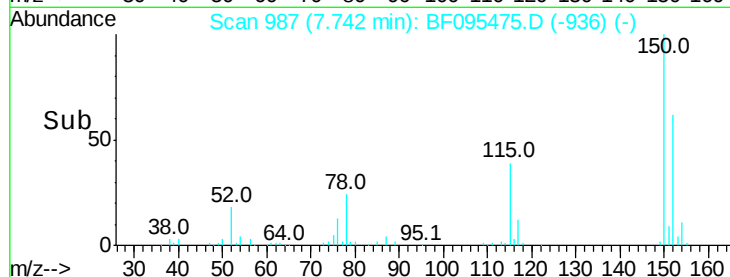
Tot Ion	Ratio	Lower	Upper
152	100		
150	160.5	126.2	189.2
115	62.0	52.2	78.2

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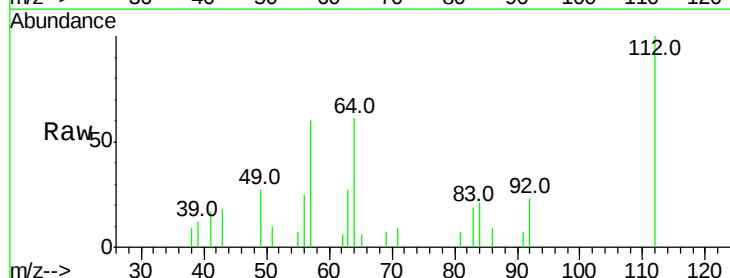
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



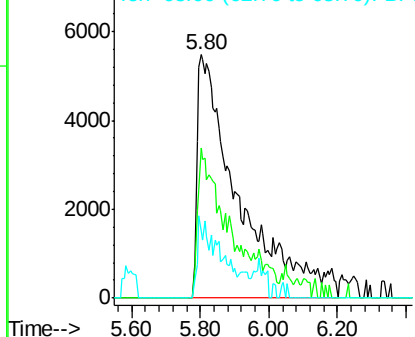
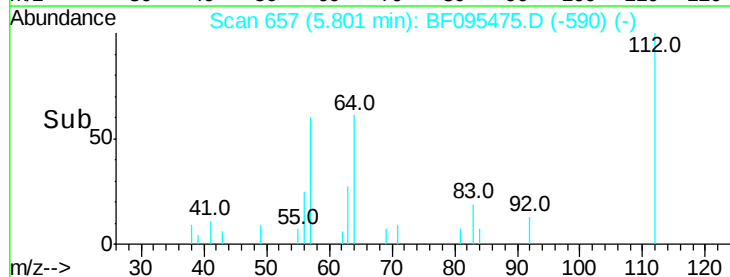
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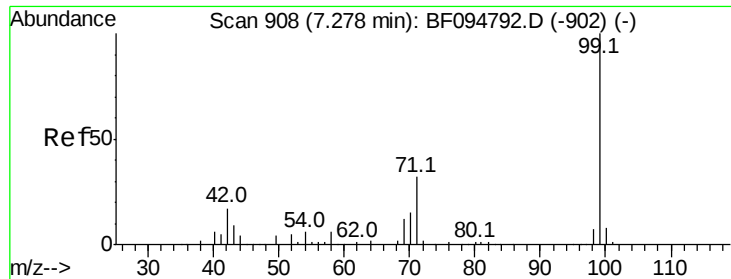
2-Fluorophenol
Concen: 8.86 ng m
RT: 5.80 min Scan# 657
Delta R.T. 0.09 min
Lab File: BF095475.D
Acq: 26 May 2017 22:51

Tgt Ion	Ratio	Lower	Upper
112	100		
64	61.5	46.0	69.0
63	27.5	23.4	35.0



Abundance Ion 112.00 (111.70 to 112.70): E
Ion 64.00 (63.70 to 64.70): BF0
Ion 63.00 (62.70 to 63.70): BF0





#7

Phenol-d6

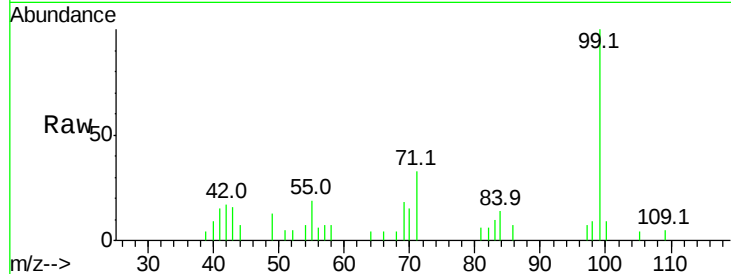
Concen: 7.85 ng/ml
 RT: 7.38 min Scan# 925
 Delta R.T. 0.08 min
 Lab File: BF095475.D
 Acq: 26 May 2017 22:51

Instrument :
 BNA_F
 ClientSampleId :
 EP2-WC7(0-6.5)

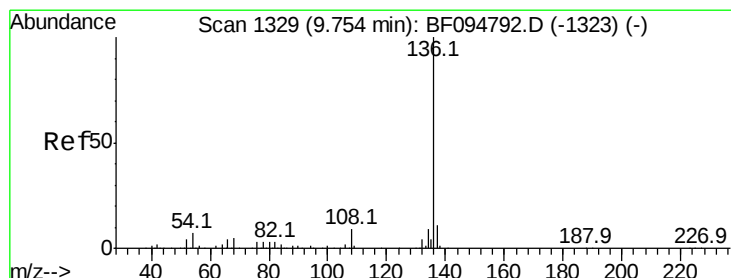
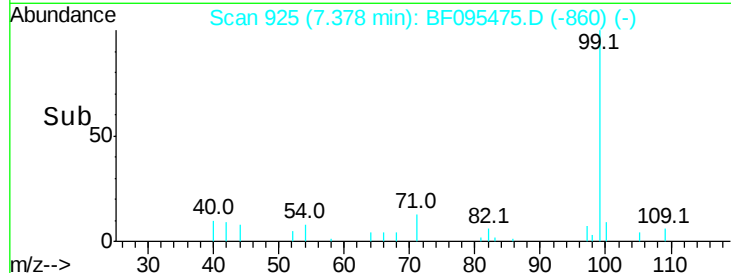
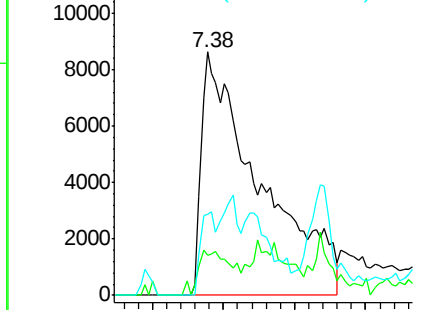
Tot Ion:	99	Resp:	49113
Ion Ratio	Lower	Upper	
99	100		
42	16.7	13.5	20.3
71	33.2	24.5	36.7

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Abundance Ion 99.00 (98.70 to 99.70): BF0
 Ion 42.00 (41.70 to 42.70): BF0
 Ion 71.00 (70.70 to 71.70): BF0



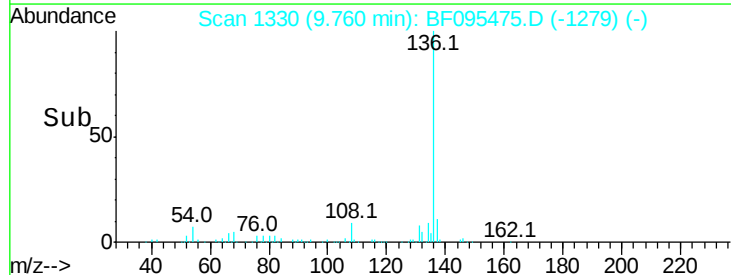
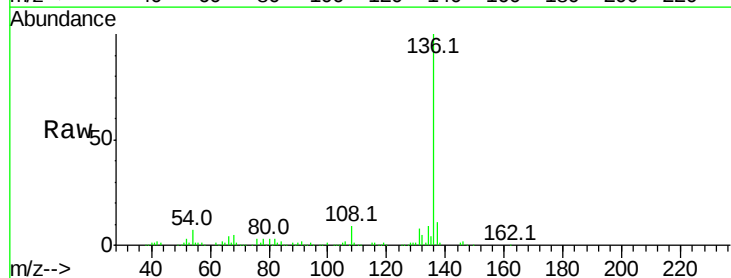
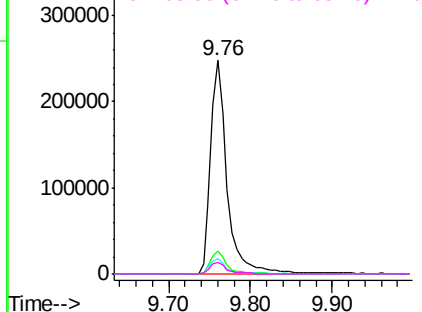
#21

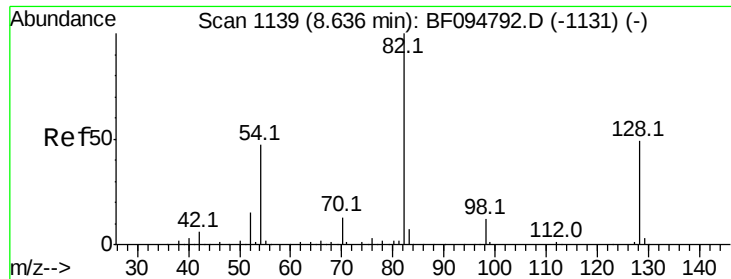
Naphthalene-d8

Concen: 20.00 ng
 RT: 9.76 min Scan# 1330
 Delta R.T. 0.00 min
 Lab File: BF095475.D
 Acq: 26 May 2017 22:51

Tgt Ion:	136	Resp:	350285
Ion Ratio	Lower	Upper	
136	100		
137	10.8	8.5	12.7
54	7.0	4.9	7.3
68	5.3	4.1	6.1

Abundance Ion 136.00 (135.70 to 136.70): E
 Ion 137.00 (136.70 to 137.70): E
 Ion 54.00 (53.70 to 54.70): BF0
 Ion 68.00 (67.70 to 68.70): BF0





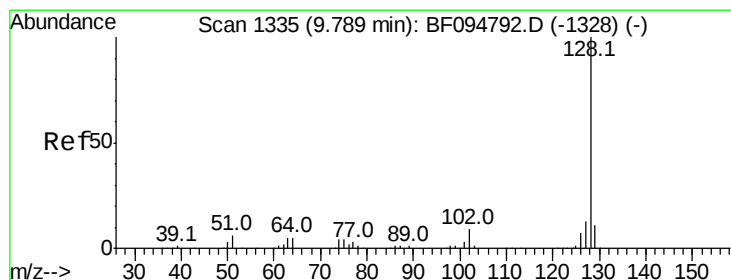
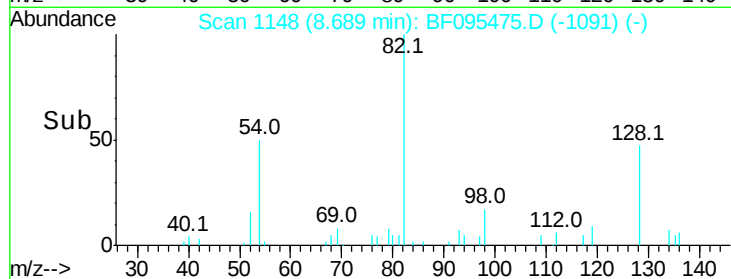
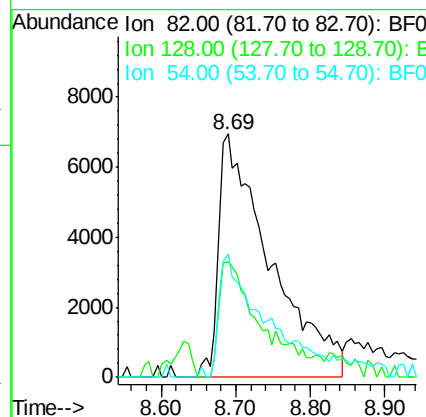
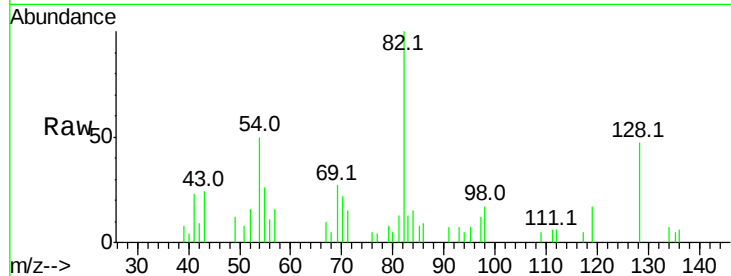
#23
 Nitrobenzene-d5
 Concen: 6.02 ng
 RT: 8.69 min Scan# 1148
 Delta R.T. 0.04 min
 Lab File: BF095475.D
 Acq: 26 May 2017 22:51

Instrument :
 BNA_F
 ClientSampleId :
 EP2-WC7(0-6.5)

Tot Ion	Ratio	Lower	Upper
82	100		
128	47.4	34.0	51.0
54	50.4	42.2	63.2

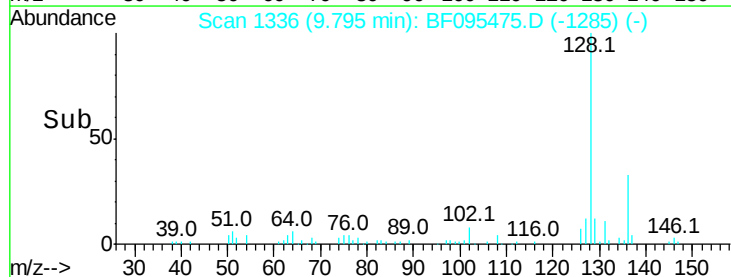
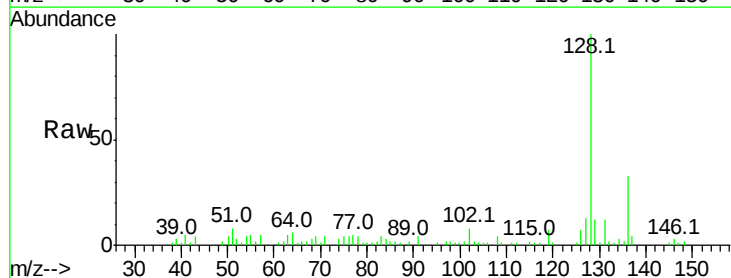
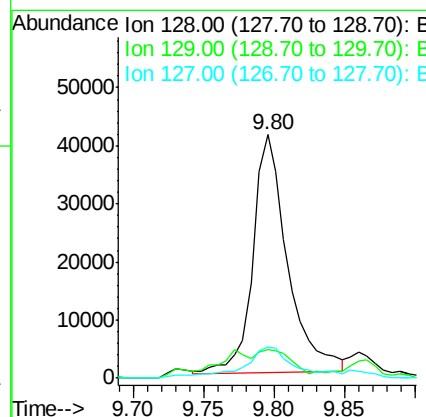
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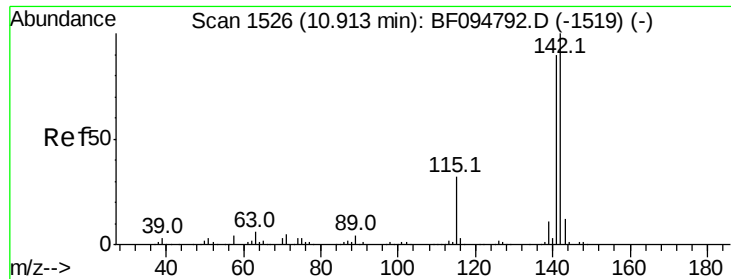
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#31
 Naphthalene
 Concen: 4.06 ng
 RT: 9.80 min Scan# 1336
 Delta R.T. 0.00 min
 Lab File: BF095475.D
 Acq: 26 May 2017 22:51

Tgt Ion	Ratio	Lower	Upper
128	100		
129	11.9	9.0	13.6
127	13.0	10.8	16.2





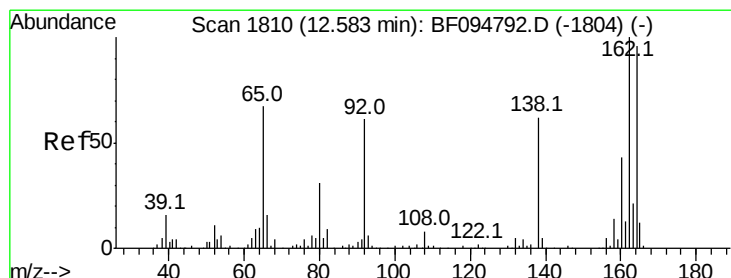
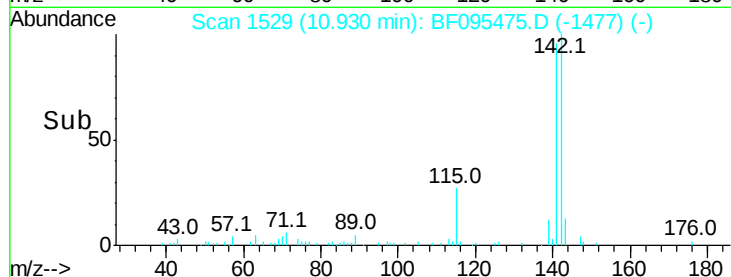
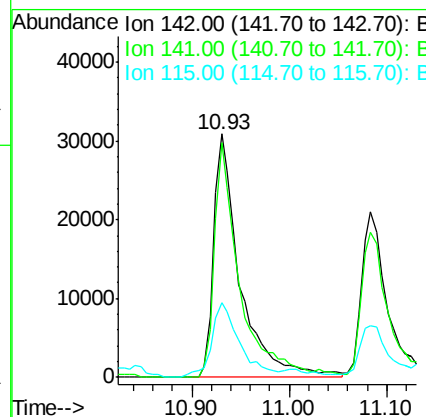
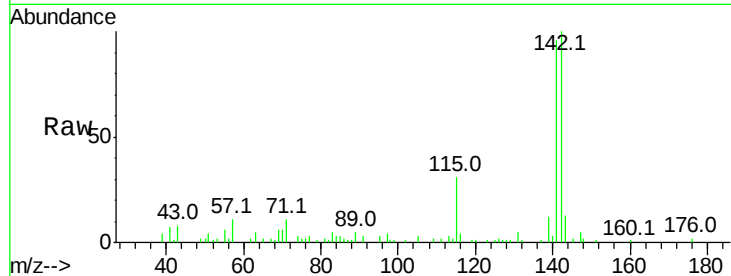
#37
2-Methylnaphthalene
Concen: 5.01 ng
RT: 10.93 min Scan# 1529
Delta R.T. 0.01 min
Lab File: BF095475.D
Acq: 26 May 2017 22:51

Instrument :
BNA_F
ClientSampleId :
EP2-WC7(0-6.5)

Tot Ion	Ratio	Lower	Upper
142	100		
141	96.1	71.3	106.9
115	30.6	27.1	40.7

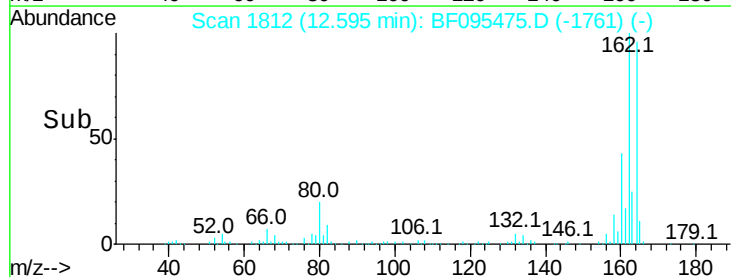
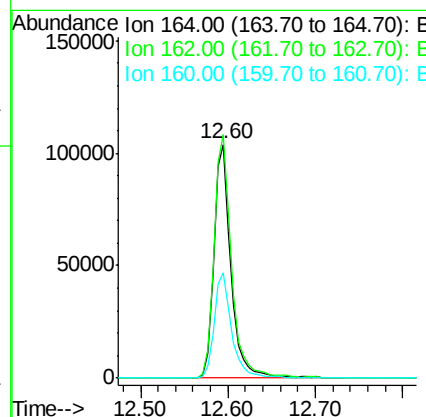
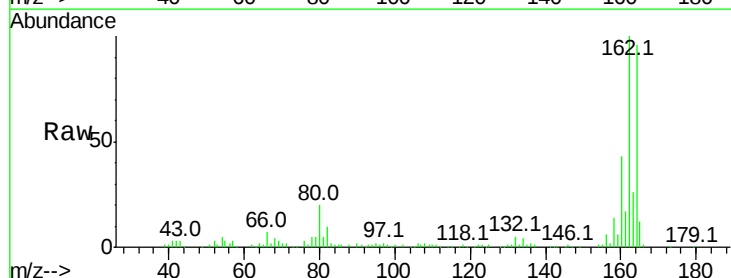
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#38
Acenaphthene-d10
Concen: 20.00 ng
RT: 12.60 min Scan# 1812
Delta R.T. 0.00 min
Lab File: BF095475.D
Acq: 26 May 2017 22:51

Tgt Ion	Ratio	Lower	Upper
164	100		
162	104.1	82.6	123.8
160	45.0	36.2	54.2





#41

2,4,6-Tribromophenol

Concen: 7.25 ng

RT: 13.92 min Scan# 2037

Delta R.T. 0.02 min

Lab File: BF095475.D

Acq: 26 May 2017 22:51

Instrument :

BNA_F

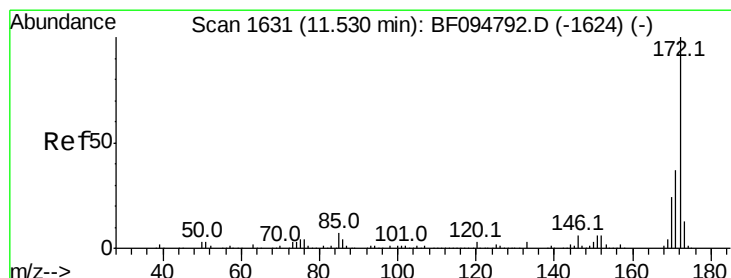
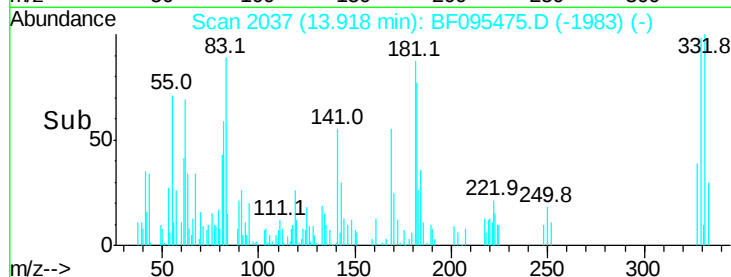
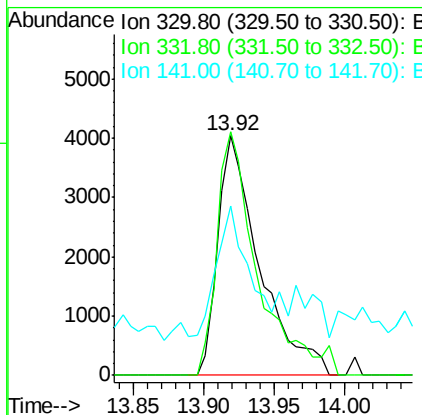
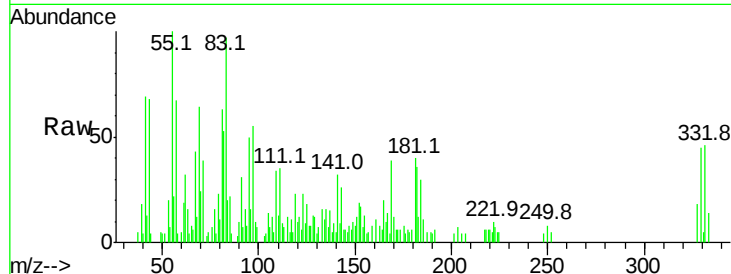
ClientSampleId :

EP2-WC7(0-6.5)

Tot Ion:	330	Resp:	8323
Ion Ratio	Lower	Upper	
330	100		
332	99.1	76.6	115.0
141	42.1	31.4	47.2

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#44

2-Fluorobiphenyl

Concen: 7.35 ng

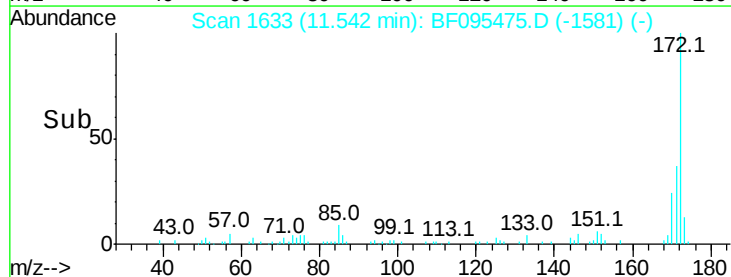
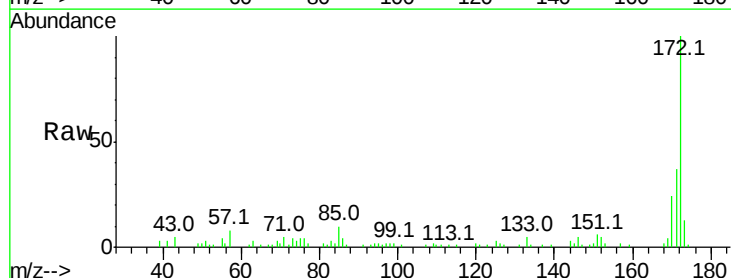
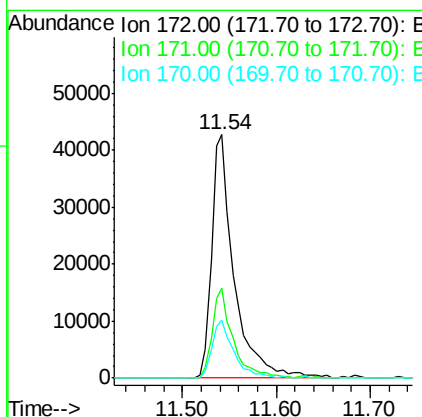
RT: 11.54 min Scan# 1633

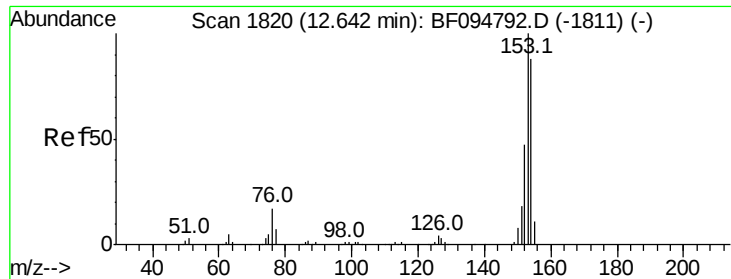
Delta R.T. 0.01 min

Lab File: BF095475.D

Acq: 26 May 2017 22:51

Tgt Ion:	172	Resp:	71543
Ion Ratio	Lower	Upper	
172	100		
171	36.9	29.6	44.4
170	23.6	19.8	29.8





#51

Acenaphthene

Concen: 2.91 ng

RT: 12.65 min Scan# 1821

Delta R.T. 0.00 min

Lab File: BF095475.D

Acq: 26 May 2017 22:51

Instrument :

BNA_F

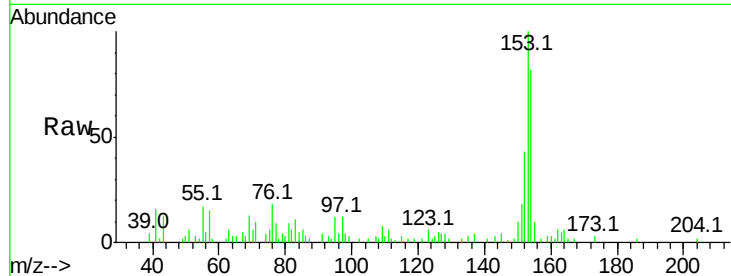
ClientSampleId :

EP2-WC7(0-6.5)

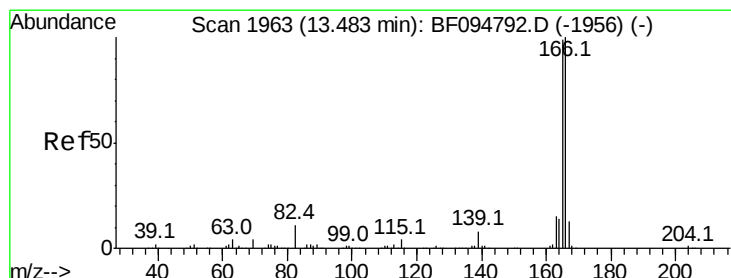
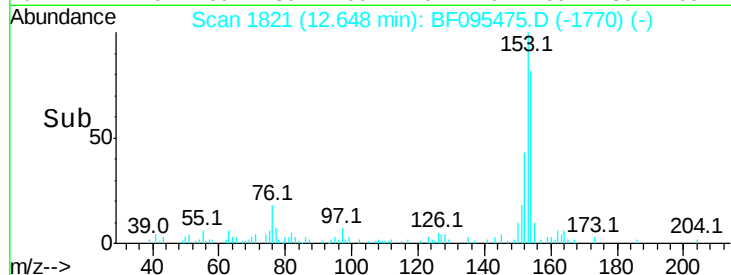
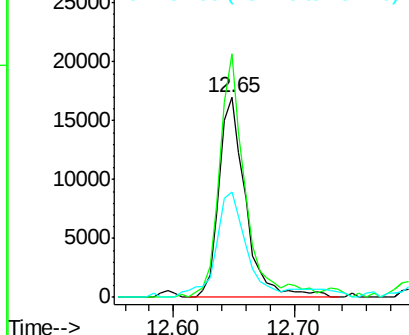
Tot Ion:	154	Resp:	25926
Ion Ratio	Lower	Upper	
154	100		
153	121.9	90.5	135.7
152	52.9	43.6	65.4

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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



#57

Fluorene

Concen: 2.98 ng

RT: 13.49 min Scan# 1965

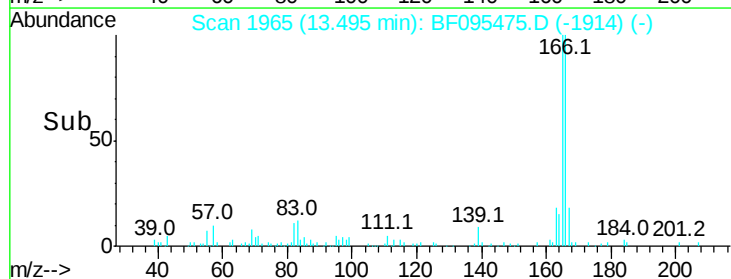
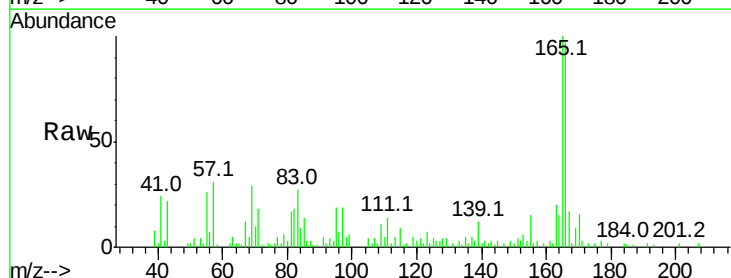
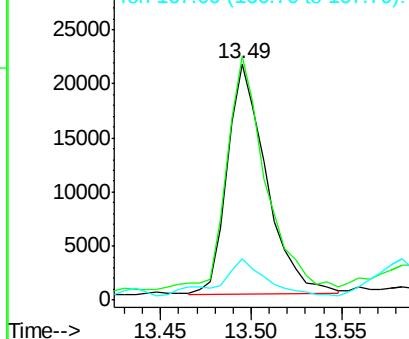
Delta R.T. 0.00 min

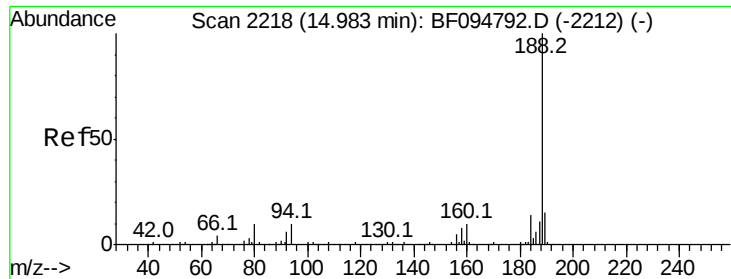
Lab File: BF095475.D

Acq: 26 May 2017 22:51

Tgt Ion:	166	Resp:	31941
Ion Ratio	Lower	Upper	
166	100		
165	102.9	78.8	118.2
167	17.6	10.6	16.0#

Abundance Ion 166.00 (165.70 to 166.70): E
Ion 165.00 (164.70 to 165.70): E
Ion 167.00 (166.70 to 167.70): E





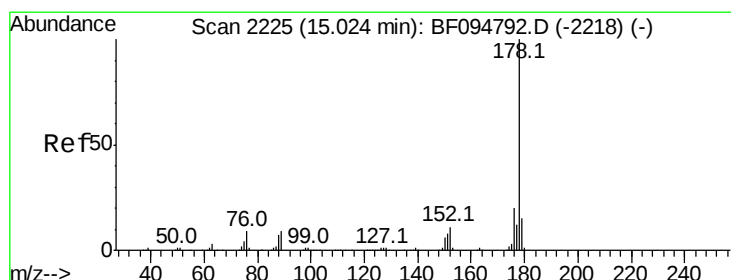
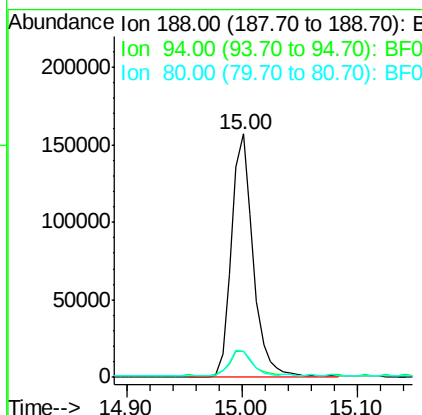
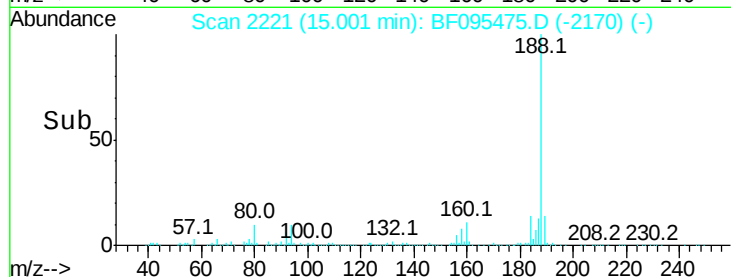
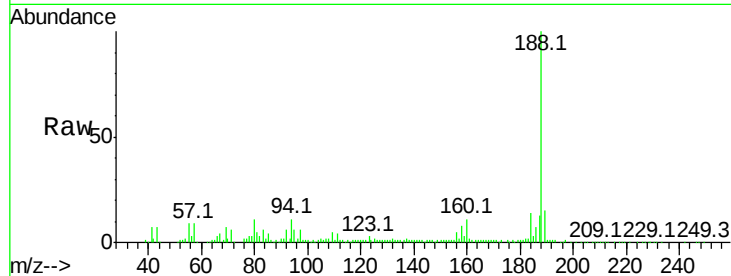
#63
Phenanthrene-d10
Concen: 20.00 ng
RT: 15.00 min Scan# 2221
Delta R.T. 0.00 min
Lab File: BF095475.D
Acq: 26 May 2017 22:51

Instrument :
BNA_F
ClientSampleId :
EP2-WC7(0-6.5)

Tot Ion	Ratio	Resp	Lower	Upper
188	100	205330		
94	10.5		9.4	14.2
80	10.8		10.2	15.2

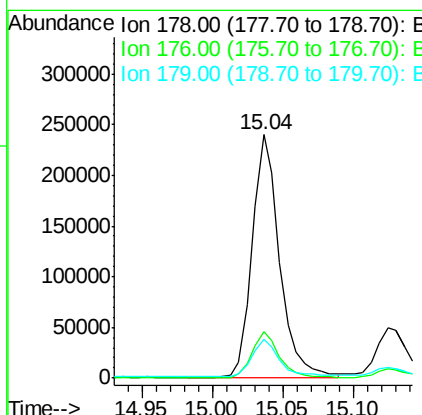
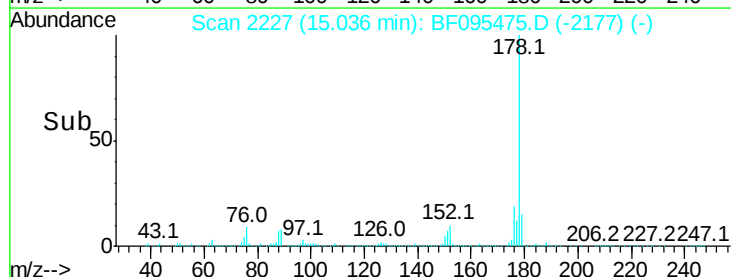
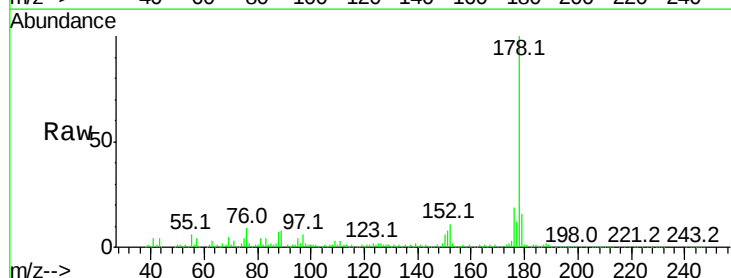
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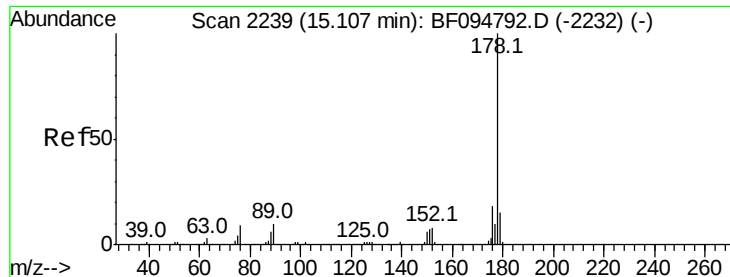
mohammad
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#70
Phenanthrene
Concen: 27.61 ng
RT: 15.04 min Scan# 2227
Delta R.T. -0.01 min
Lab File: BF095475.D
Acq: 26 May 2017 22:51

Tgt Ion	Ratio	Resp	Lower	Upper
178	100	325770		
176	19.3		16.2	24.4
179	15.7		12.6	19.0





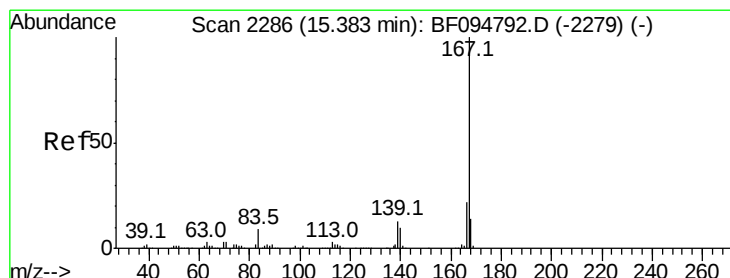
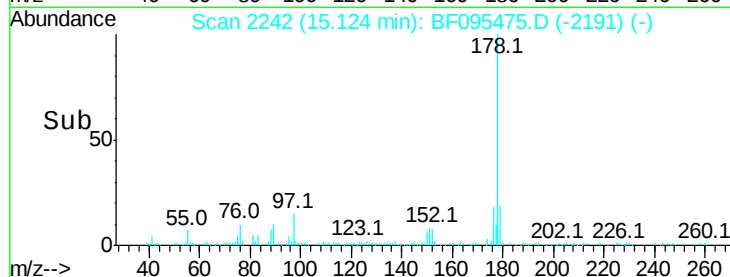
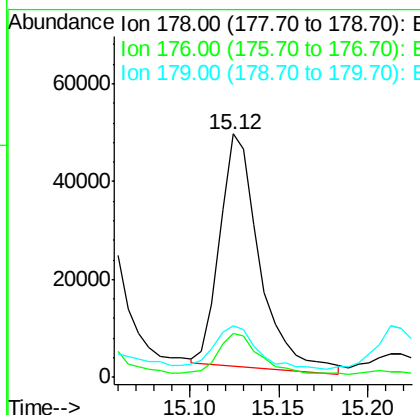
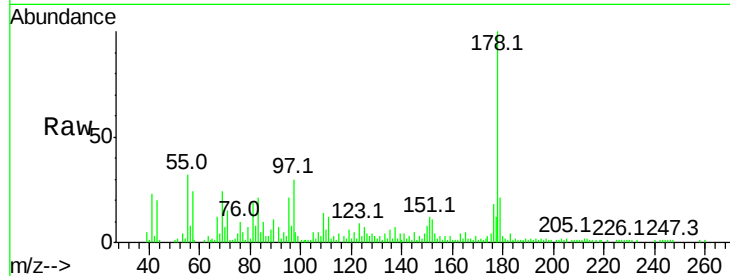
#71
 Anthracene
 Concen: 6.14 ng/mL
 RT: 15.12 min Scan# 2242
 Delta R.T. 0.00 min
 Lab File: BF095475.D
 Acq: 26 May 2017 22:51

Instrument :
 BNA_F
 ClientSampleId :
 EP2-WC7(0-6.5)

Tot Ion	Ratio	Lower	Upper
178	100		
176	18.3	15.8	23.8
179	21.4	12.7	19.1

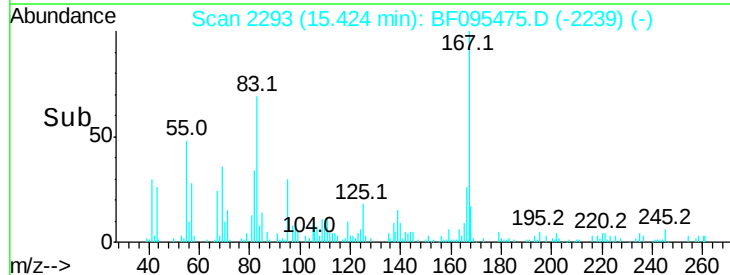
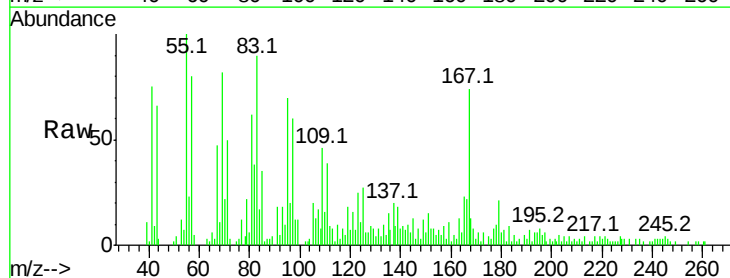
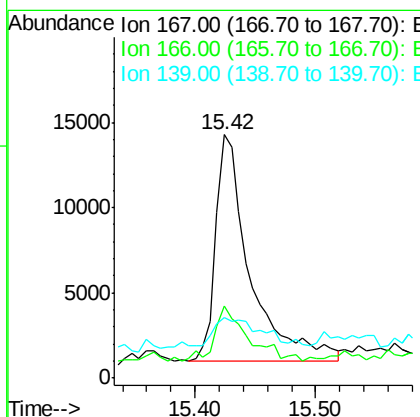
Manual Integrations
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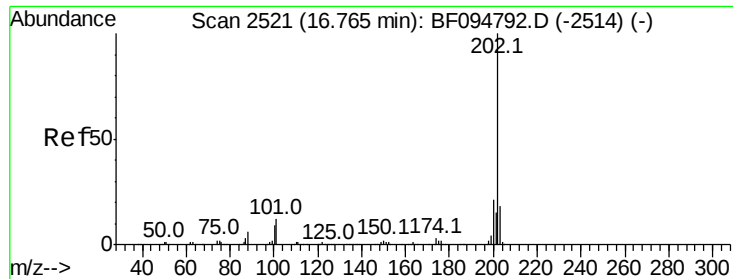
mohammad
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#72
 Carbazole
 Concen: 2.38 ng
 RT: 15.42 min Scan# 2293
 Delta R.T. 0.02 min
 Lab File: BF095475.D
 Acq: 26 May 2017 22:51

Tgt Ion	Ratio	Lower	Upper
167	100		
166	29.8	18.1	27.1
139	24.8	11.7	17.5





#74

Fluoranthene

Concen: 37.20 ng

RT: 16.79 min Scan# 2525

Delta R.T. 0.01 min

Lab File: BF095475.D

Acq: 26 May 2017 22:51

Instrument :

BNA_F

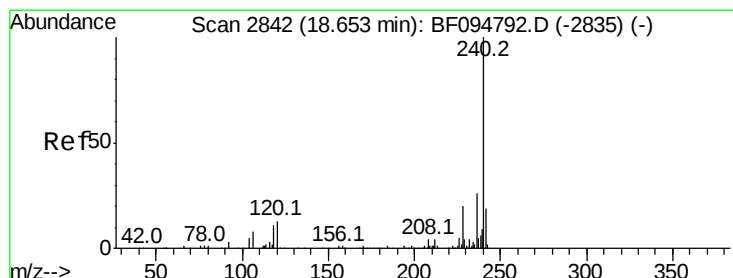
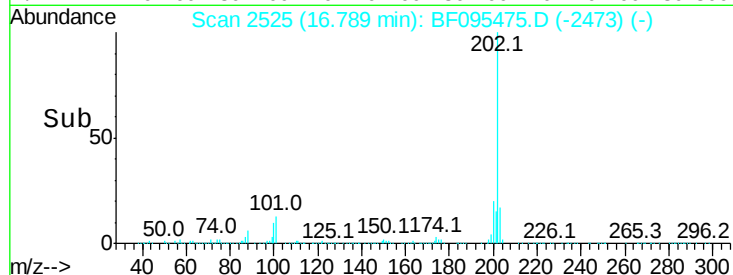
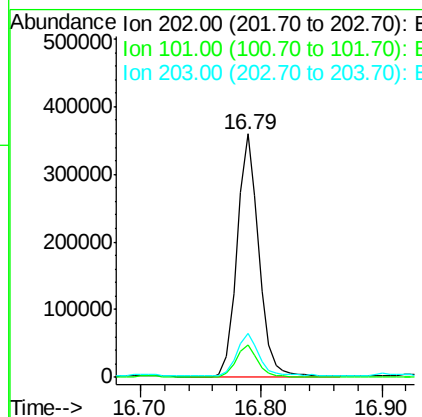
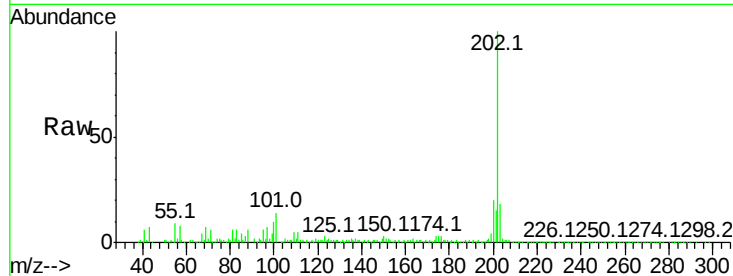
ClientSampleId :

EP2-WC7(0-6.5)

Tot Ion:	202	Resp:	450248
Ion Ratio	Lower	Upper	
202	100		
101	13.6	0.0	33.2
203	17.8	0.0	38.1

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#75

Chrysene-d12

Concen: 20.00 ng

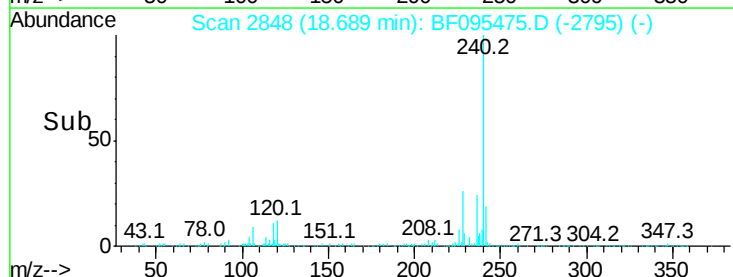
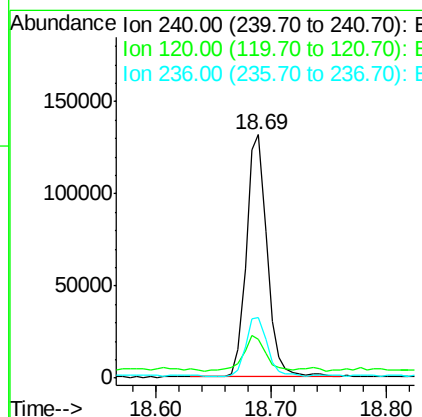
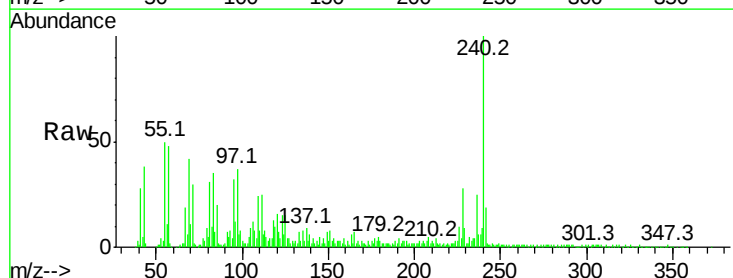
RT: 18.69 min Scan# 2848

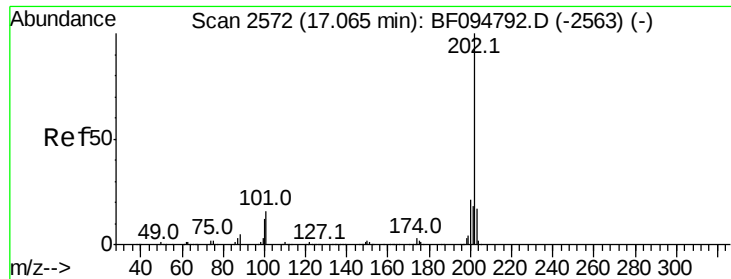
Delta R.T. 0.01 min

Lab File: BF095475.D

Acq: 26 May 2017 22:51

Tgt Ion:	240	Resp:	164320
Ion Ratio	Lower	Upper	
240	100		
120	15.8	5.8	8.8#
236	24.9	20.5	30.7





#77

Pvrene

Concen: 34.03 ng

RT: 17.09 min Scan# 2576

Delta R.T. 0.00 min

Lab File: BF095475.D

Acq: 26 May 2017 22:51

Instrument :

BNA_F

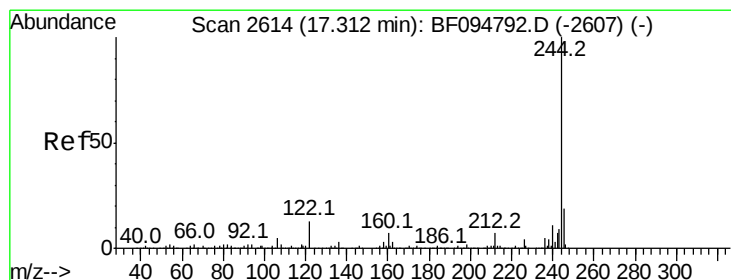
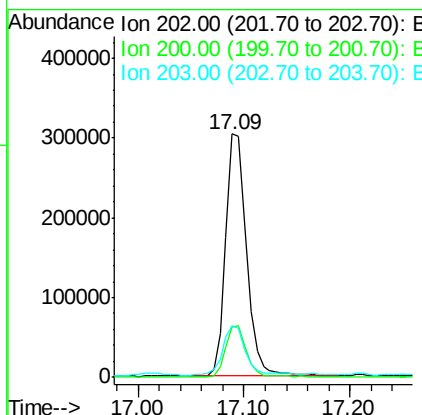
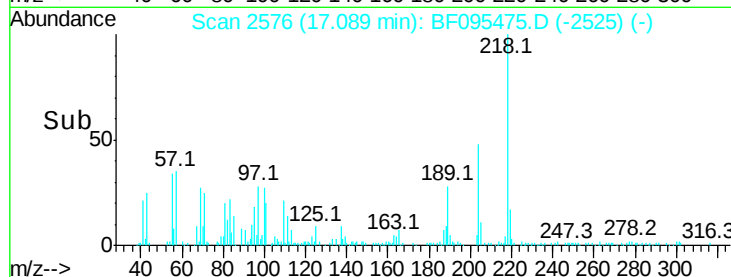
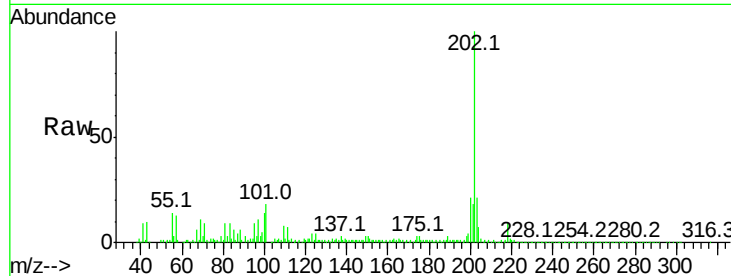
ClientSampleId :

EP2-WC7(0-6.5)

Tot Ion:	202	Resp:	418164
Ion Ratio		Lower	Upper
202	100		
200	20.8	17.6	26.4
203	21.5	14.4	21.6

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#78

Terphenyl-d14

Concen: 5.81 ng

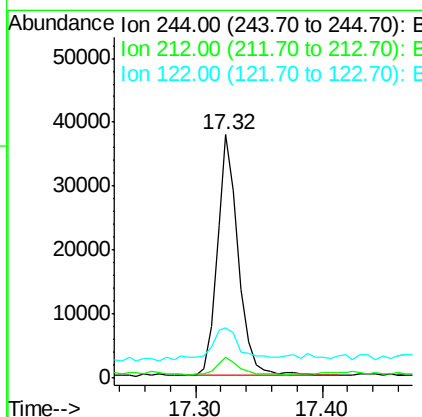
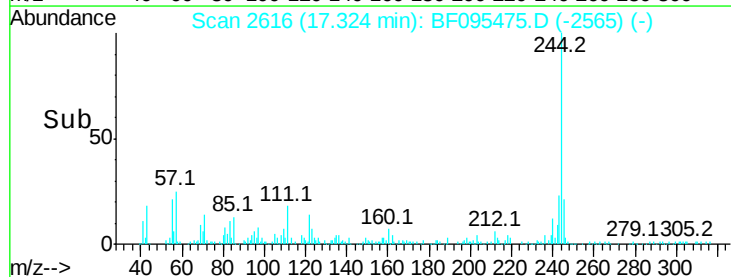
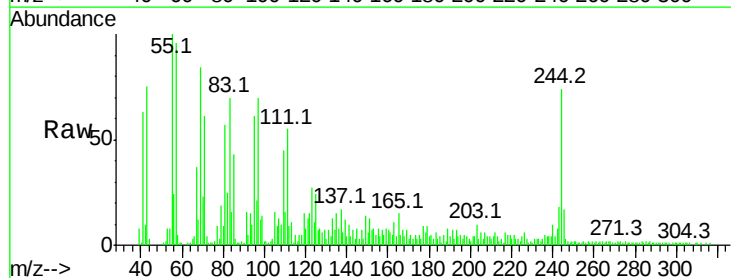
RT: 17.32 min Scan# 2616

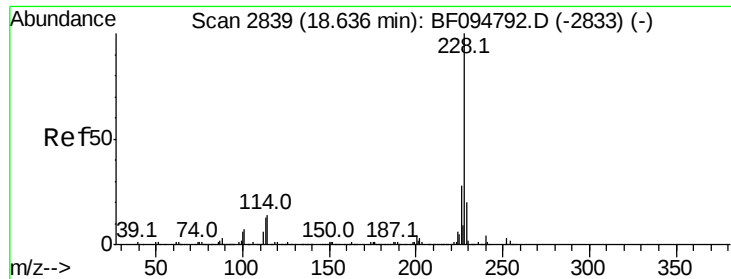
Delta R.T. 0.00 min

Lab File: BF095475.D

Acq: 26 May 2017 22:51

Tgt Ion:	244	Resp:	43327
Ion Ratio		Lower	Upper
244	100		
212	8.7	6.0	9.0
122	20.6	10.3	15.5#





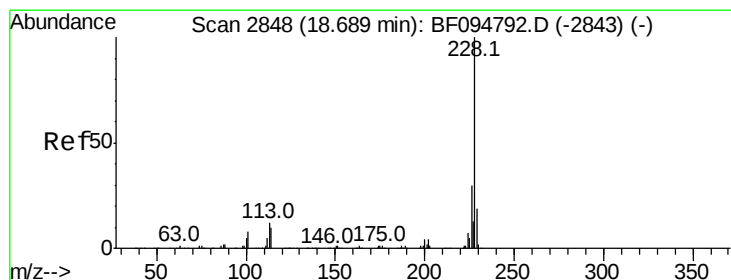
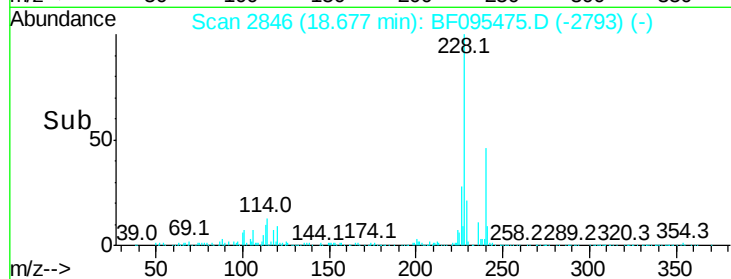
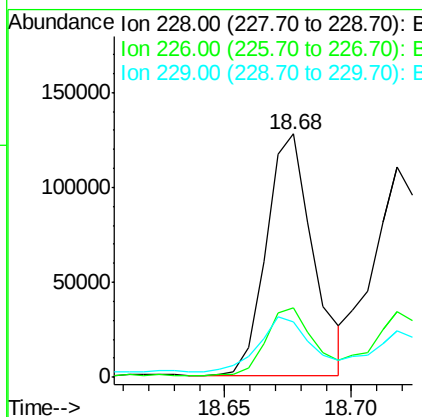
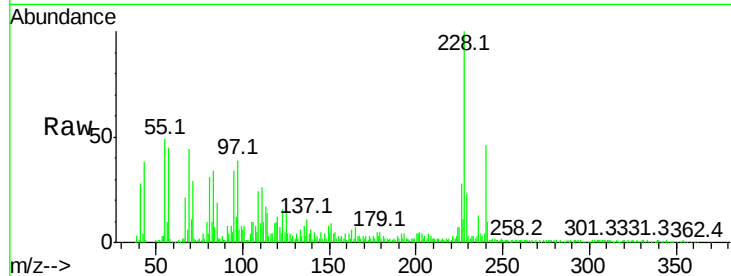
#80
Benzo(a)anthracene
Concen: 17.19 ng
RT: 18.68 min Scan# 2846
Delta R.T. 0.01 min
Lab File: BF095475.D
Acq: 26 May 2017 22:51

Instrument :
BNA_F
ClientSampleId :
EP2-WC7(0-6.5)

Tot Ion	Ratio	Lower	Upper
228	100		
226	28.5	22.6	33.8
229	22.9	16.3	24.5

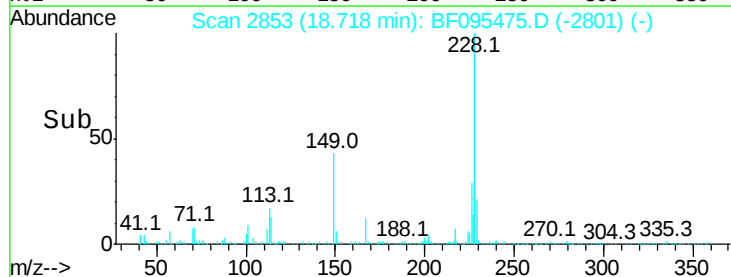
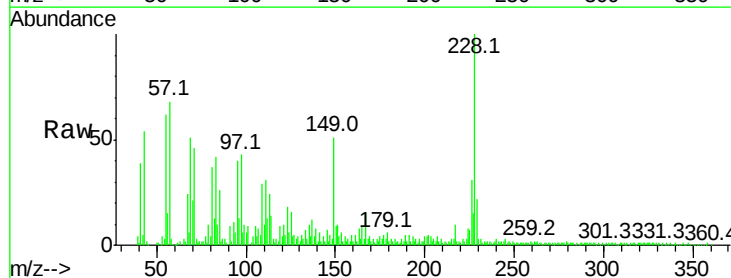
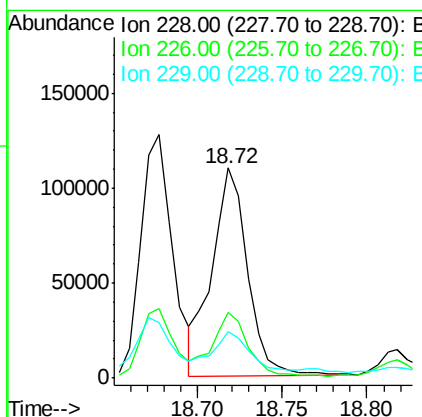
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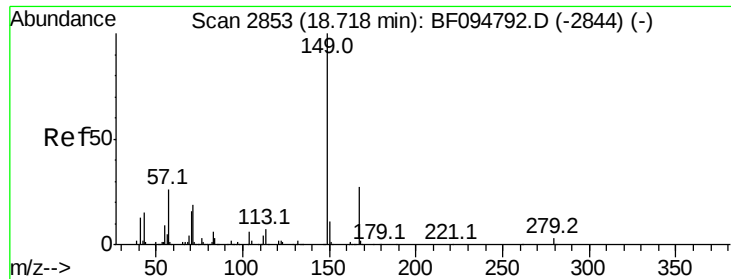
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#82
Chrysene
Concen: 17.45 ng
RT: 18.72 min Scan# 2853
Delta R.T. 0.01 min
Lab File: BF095475.D
Acq: 26 May 2017 22:51

Tgt Ion	Ratio	Lower	Upper
228	100		
226	31.2	24.9	37.3
229	22.3	15.8	23.6





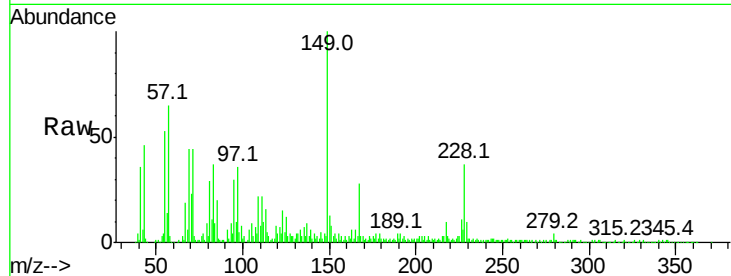
#83
 Bis(2-ethylhexyl)phthalate
 Concen: 17.46 ng
 RT: 18.73 min Scan# 2855
 Delta R.T. 0.01 min
 Lab File: BF095475.D
 Acq: 26 May 2017 22:51

Instrument :
 BNA_F
 ClientSampleId :
 EP2-WC7(0-6.5)

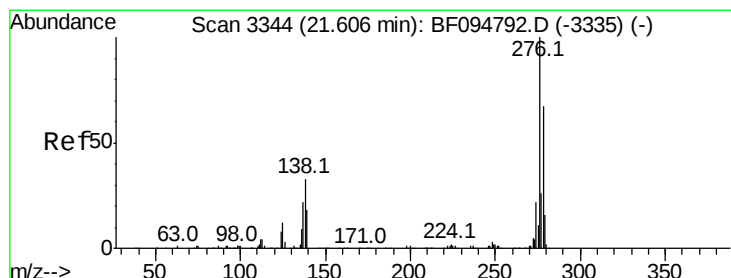
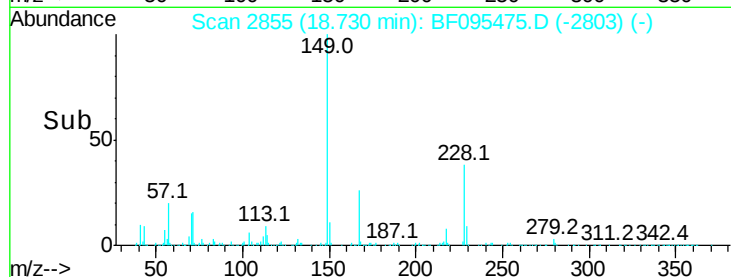
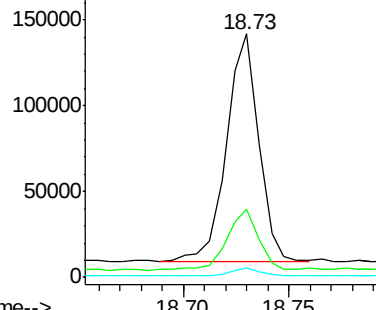
Tot Ion	Ratio	Resp	Lower	Upper
149	100			
167	27.9	21.0	31.4	
279	3.7	1.9	2.9	

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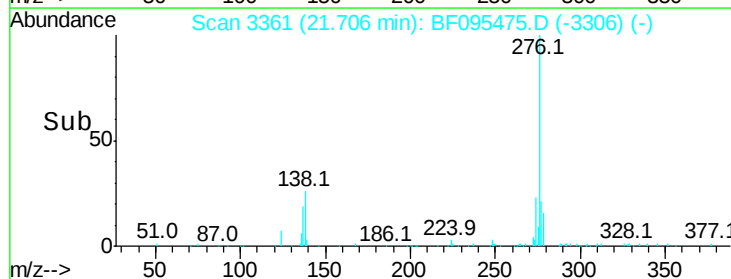
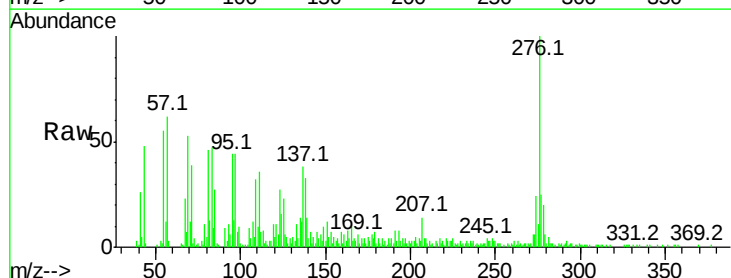
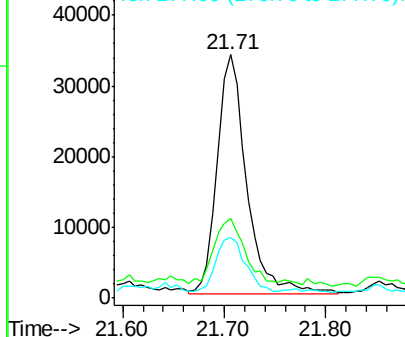
Abundance Ion 149.00 (148.70 to 149.70): E
 Ion 167.00 (166.70 to 167.70): E
 Ion 279.00 (278.70 to 279.70): E

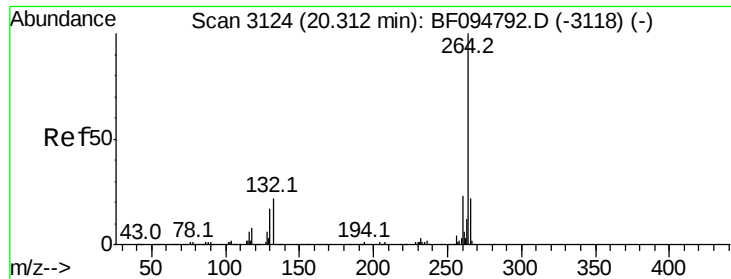


#85
 Indeno(1,2,3-cd)pyrene
 Concen: 9.07 ng
 RT: 21.71 min Scan# 3361
 Delta R.T. 0.02 min
 Lab File: BF095475.D
 Acq: 26 May 2017 22:51

Tgt Ion	Ratio	Resp	Lower	Upper
276	100			
138	30.5	27.8	41.6	
277	22.6	20.2	30.4	

Abundance Ion 276.00 (275.70 to 276.70): E
 Ion 138.00 (137.70 to 138.70): E
 Ion 277.00 (276.70 to 277.70): E





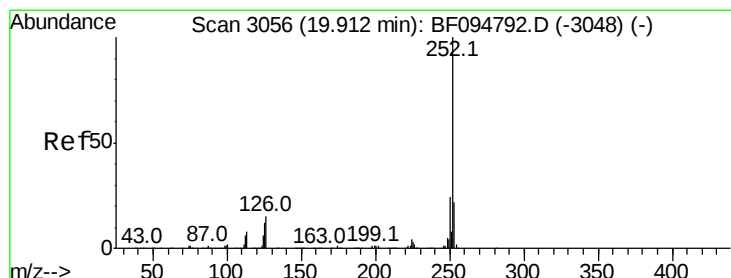
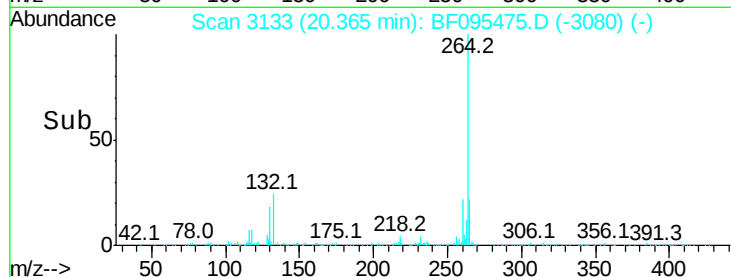
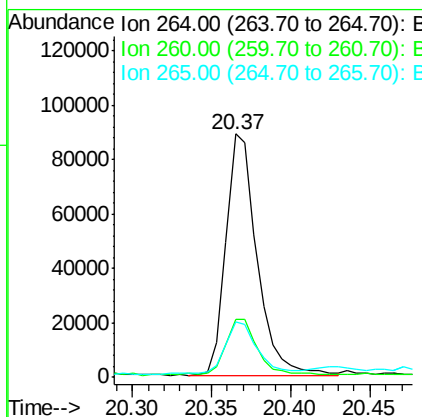
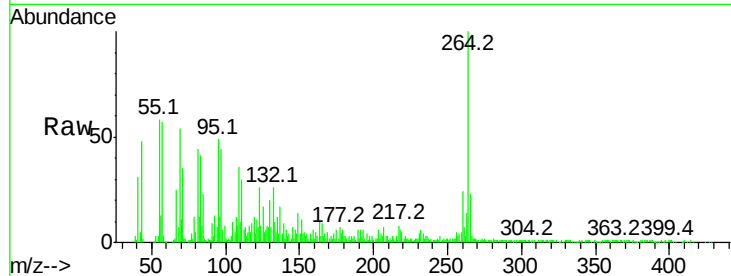
#86
Pervlene-d12
Concen: 20.00 ng
RT: 20.37 min Scan# 3133
Delta R.T. 0.01 min
Lab File: BF095475.D
Acq: 26 May 2017 22:51

Instrument :
BNA_F
ClientSampleId :
EP2-WC7(0-6.5)

Tot Ion	Ratio	Lower	Upper
264	100		
260	23.6	19.5	29.3
265	23.0	17.2	25.8

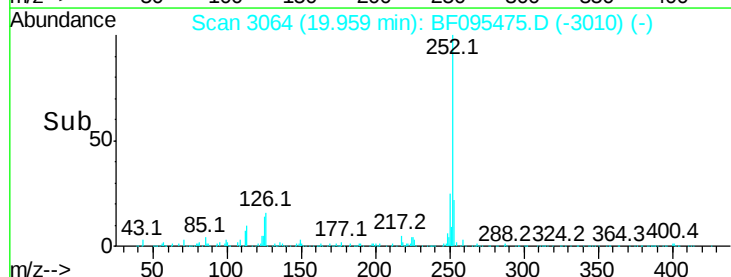
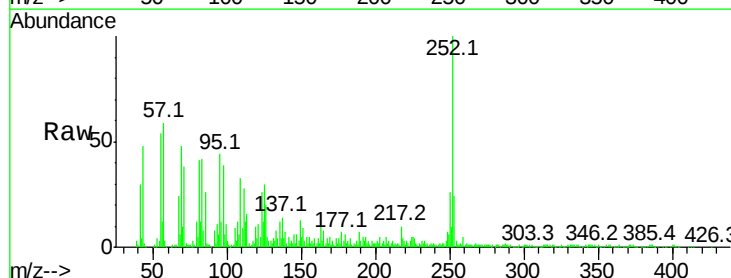
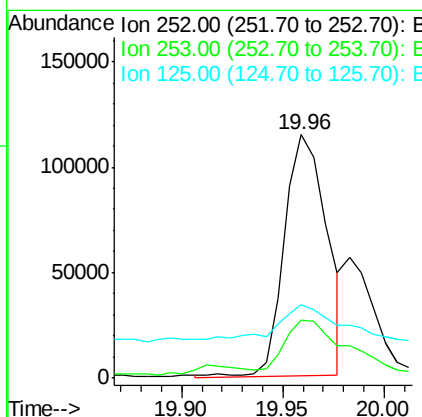
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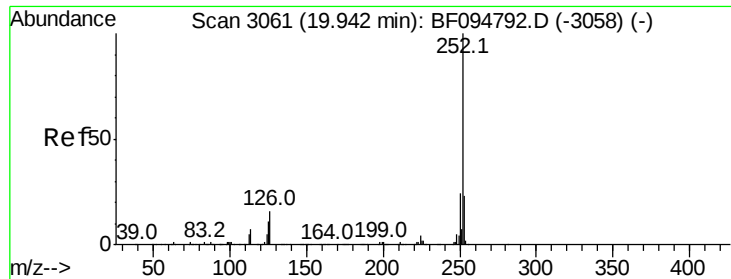
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#87
Benzo(b)fluoranthene
Concen: 22.65 ng m
RT: 19.96 min Scan# 3064
Delta R.T. 0.02 min
Lab File: BF095475.D
Acq: 26 May 2017 22:51

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.8	18.1	27.1
125	30.0	9.8	14.8





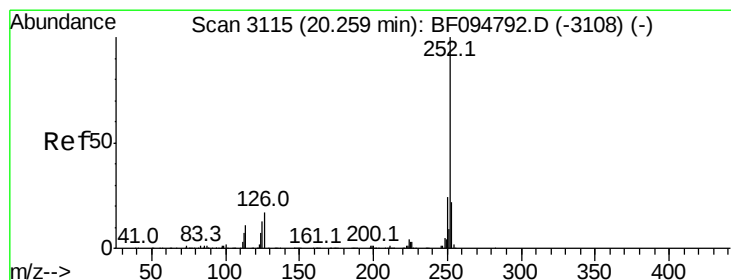
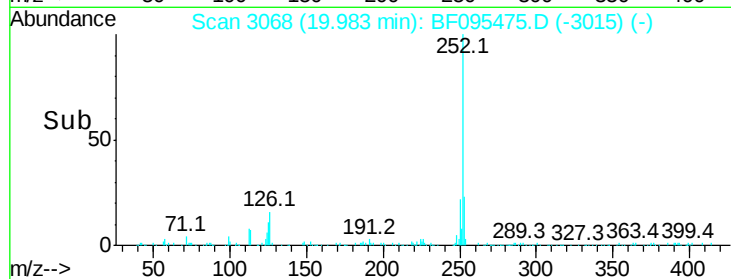
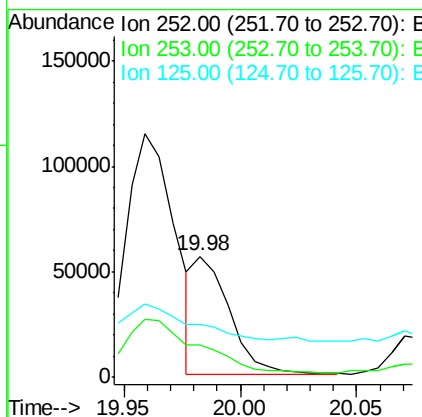
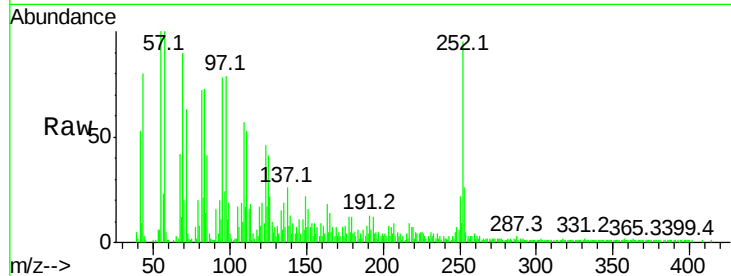
#88
Benzo(k)fluoranthene
Concen: 8.25 ng
RT: 19.98 min Scan# 3068
Delta R.T. 0.01 min
Lab File: BF095475.D
Acq: 26 May 2017 22:51

Instrument :
BNA_F
ClientSampleId :
EP2-WC7(0-6.5)

Tot Ion	Ratio	Lower	Upper
252	100		
253	27.1	18.4	27.6
125	43.3	13.1	19.7

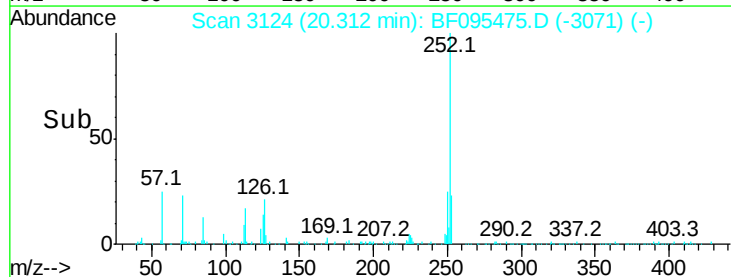
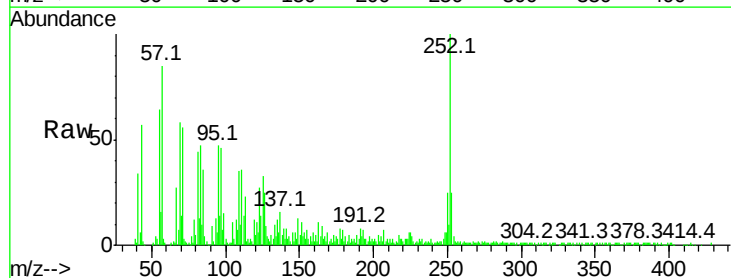
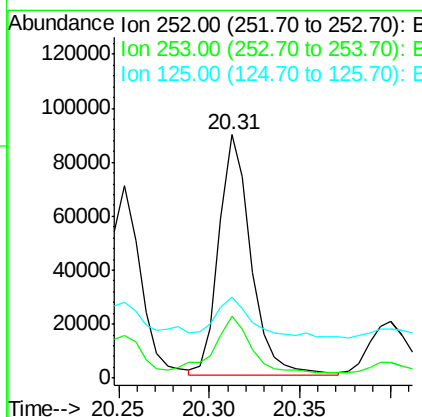
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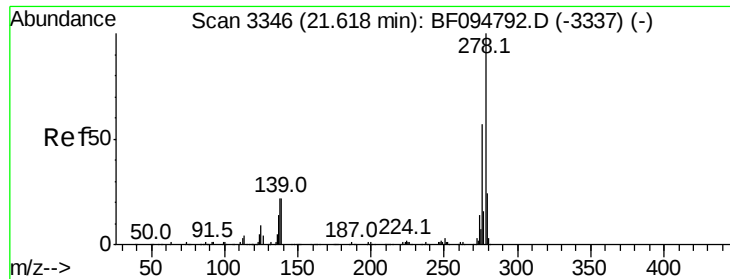
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#89
Benzo(a)pyrene
Concen: 15.94 ng
RT: 20.31 min Scan# 3124
Delta R.T. 0.01 min
Lab File: BF095475.D
Acq: 26 May 2017 22:51

Tgt Ion	Ratio	Lower	Upper
252	100		
253	25.4	17.5	26.3
125	33.2	11.0	16.4





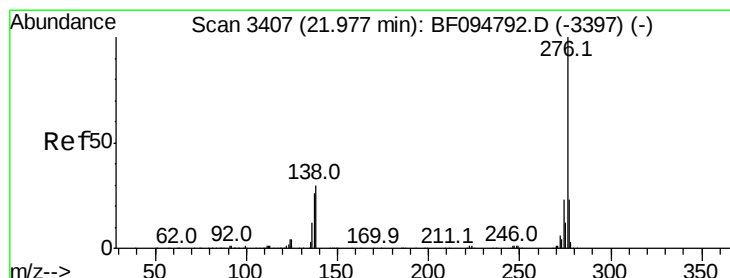
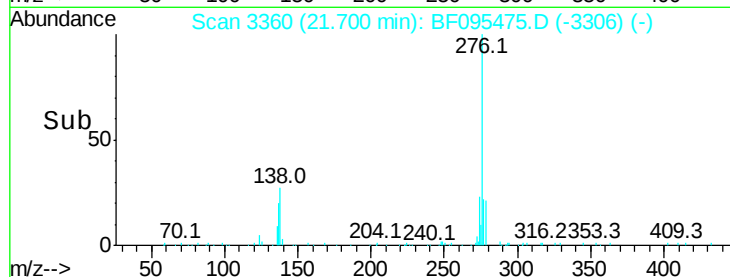
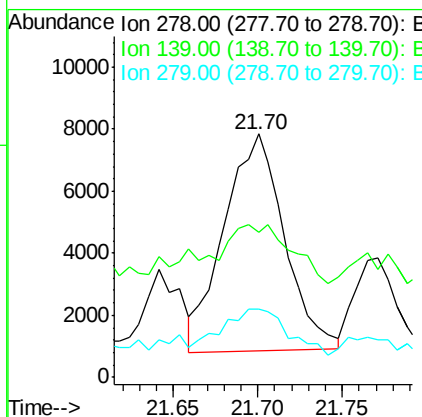
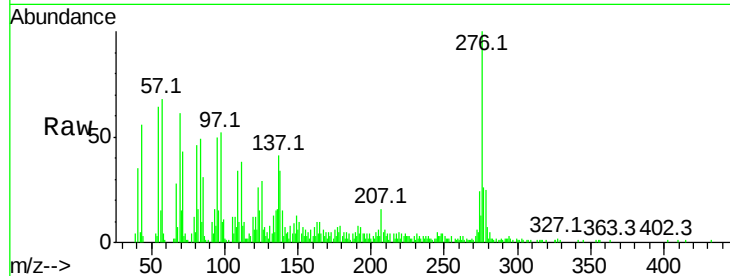
#90
Dibenzo(a,h)anthracene
Concen: 3.07 ng
RT: 21.70 min Scan# 3360
Delta R.T. 0.02 min
Lab File: BF095475.D
Acq: 26 May 2017 22:51

Instrument :
BNA_F
ClientSampleId :
EP2-WC7(0-6.5)

Tot Ion:278 Resp: 17426
Ion Ratio Lower Upper
278 100
139 59.6 16.6 24.8#
279 28.1 19.3 28.9

Manual Integrations
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#91
Benzo(g,h,i)perylene
Concen: 11.77 ng
RT: 22.09 min Scan# 3427
Delta R.T. 0.02 min
Lab File: BF095475.D
Acq: 26 May 2017 22:51

Tgt Ion:276 Resp: 65541
Ion Ratio Lower Upper
276 100
277 25.7 18.6 28.0
138 38.4 25.4 38.0#

