

Data Path : Z:\HPCHEM1\BNA F\DATA\BF052417\
 Data File : BF095396.D
 Acq On : 24 May 2017 18:59
 Operator : SJ/MA
 Sample : I3241-16
 Misc :
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 EP1-WC2(0-6)

Manual Integrations
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 5/25/2017 8:52:19 AM

Quant Time: May 25 04:11:27 2017
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF050217.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu May 18 17:07:53 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.75	152	79211	20.00	ng	-0.02
21) Naphthalene-d8	9.77	136	280048	20.00	ng	-0.01
38) Acenaphthene-d10	12.60	164	96693	20.00	ng	-0.02
63) Phenanthrene-d10	15.00	188	159278	20.00	ng	-0.02
75) Chrysene-d12	18.71	240	139041	20.00	ng	0.01
86) Perylene-d12	20.37	264	113565	20.00	ng	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) 2-Fluorophenol	5.71	112	550821	115.94	ng	-0.02
7) Phenol-d6	7.30	99	644021	112.97	ng	-0.02
23) Nitrobenzene-d5	8.65	82	345734	77.85	ng	-0.02
41) 2,4,6-Tribromophenol	13.90	330	78549	99.19	ng	-0.02
44) 2-Fluorobiphenyl	11.54	172	483661	72.00	ng	-0.02
78) Terphenyl-d14	17.33	244	421459	66.76	ng	-0.02

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
31) Naphthalene	9.81	128	58847	4.18	ng	95
37) 2-Methylnaphthalene	10.94	142	24204	2.62	ng	95
48) Acenaphthylene	12.37	152	335717	32.61	ng	99
49) Dimethylphthalate	12.24	163	64434	8.12	ng	96
51) Acenaphthene	12.65	154	82673	13.44	ng	98
54) Dibenzofuran	12.94	168	55331	6.50	ng	97
57) Fluorene	13.49	166	150423	20.33	ng	96
70) Phenanthrene	15.05	178	2062728	225.39	ng	99
71) Anthracene	15.13	178	612320	65.50	ng	98
72) Carbazole	15.41	167	119493	14.05	ng	98
74) Fluoranthene	16.82	202	3625362	386.18	ng	98
77) Pvrene	17.12	202	3735323	359.21	ng	99
80) Benzo(a)anthracene	18.69	228	2334493	288.49	ng	98
82) Chrysene	18.75	228	1989082	254.21	ng	97
85) Indeno(1,2,3-cd)pyrene	21.71	276	630950	99.30	ng	95
87) Benzo(b)fluoranthene	19.98	252	1756895m	250.36	ng	
88) Benzo(k)fluoranthene	19.99	252	473899m	70.01	ng	
89) Benzo(a)pyrene	20.32	252	1046996	161.69	ng	97
90) Dibenzo(a,h)anthracene	21.70	278	162318m	30.35	ng	
91) Benzo(a,h,i)perylene	22.10	276	571734	108.94	ng	97

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

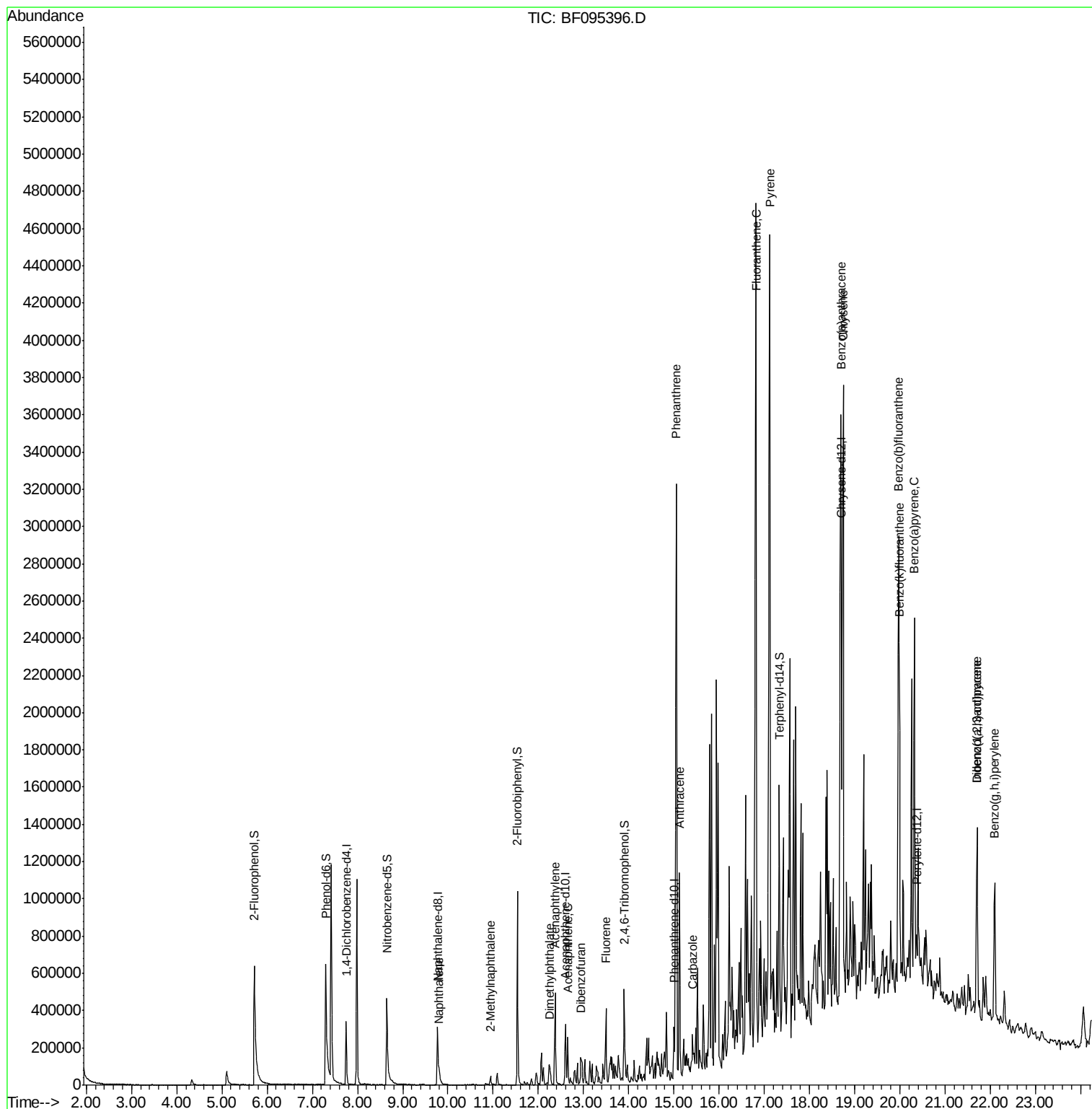
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#1

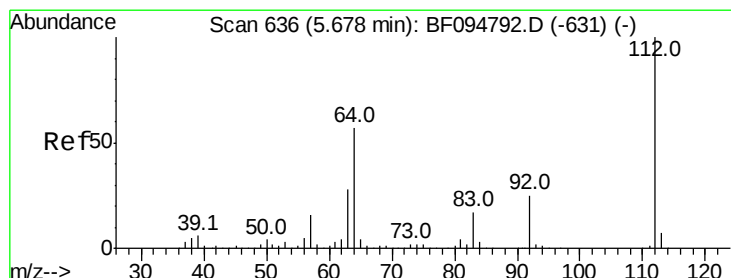
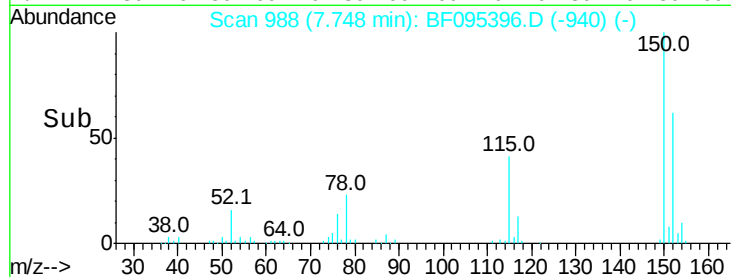
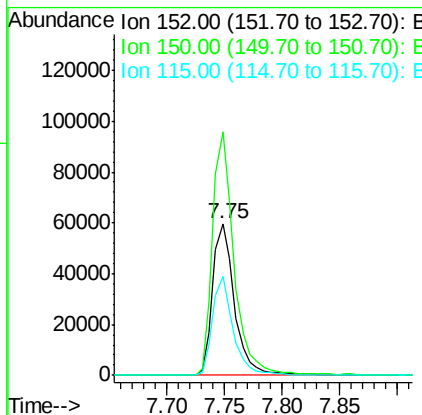
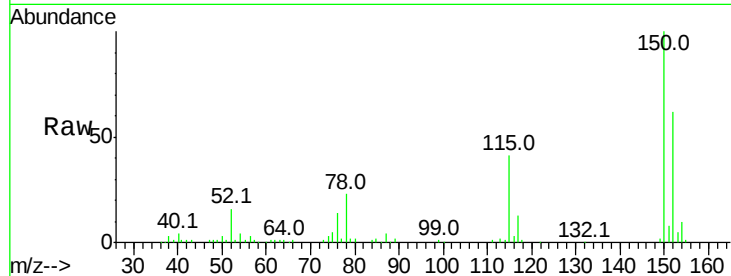
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 7.75 min Scan# 988
Delta R.T. -0.02 min
Lab File: BF095396.D
Acq: 24 May 2017 18:59

Instrument :
BNA_F
ClientSampleId :
EP1-WC2(0-6)

Tot Ion	Ratio	Lower	Upper
152	100		
150	160.2	126.2	189.2
115	65.3	52.2	78.2

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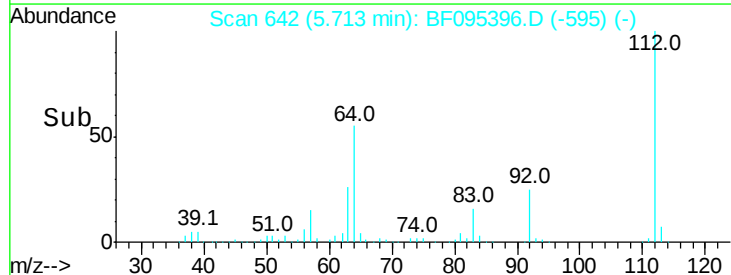
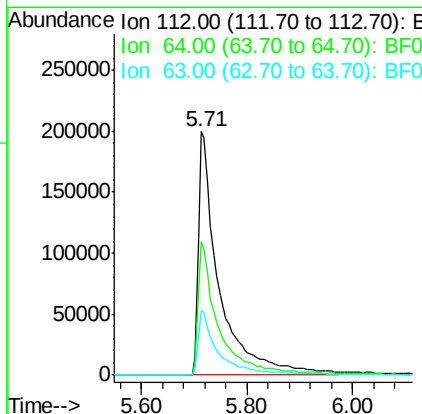
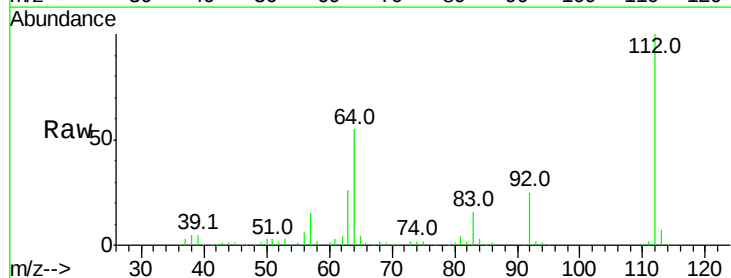
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#5

2-Fluorophenol
Concen: 115.94 ng
RT: 5.71 min Scan# 642
Delta R.T. -0.02 min
Lab File: BF095396.D
Acq: 24 May 2017 18:59

Tgt Ion	Ratio	Lower	Upper
112	100		
64	55.0	46.0	69.0
63	26.2	23.4	35.0





#7

Phenol-d6

Concen: 112.97 ng

RT: 7.30 min Scan# 911

Delta R.T. -0.02 min

Lab File: BF095396.D

Acq: 24 May 2017 18:59

Instrument :

BNA_F

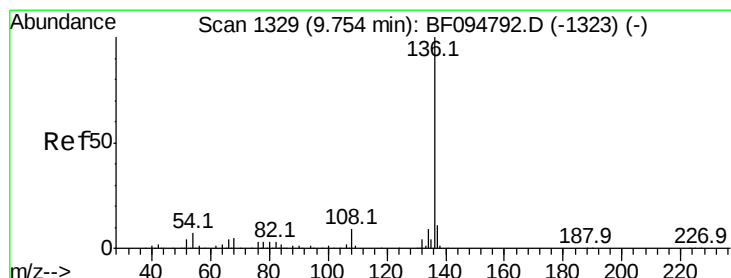
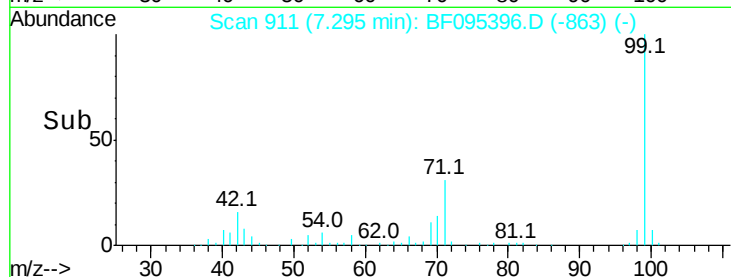
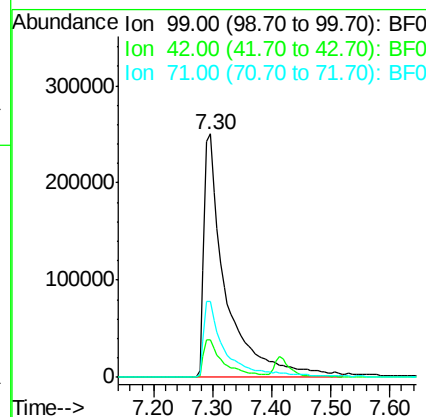
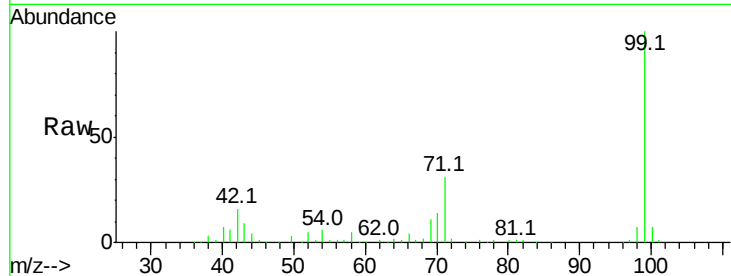
ClientSampleId :

EP1-WC2(0-6)

Tot Ion:	99	Resp:	644021
Ion Ratio	Lower	Upper	
99	100		
42	15.6	13.5	20.3
71	31.5	24.5	36.7

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#21

Naphthalene-d8

Concen: 20.00 ng

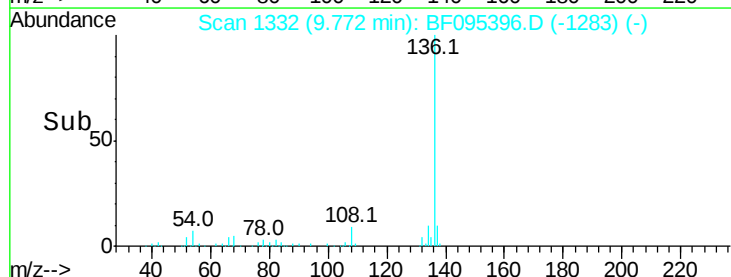
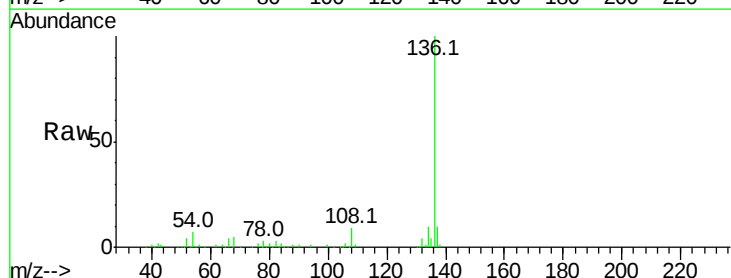
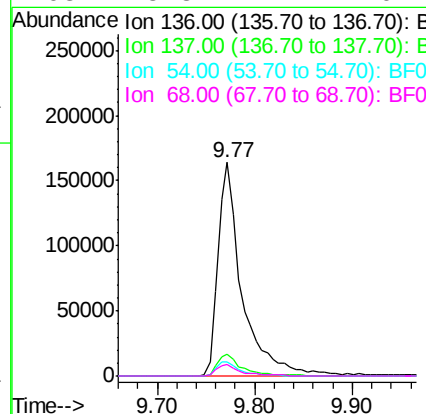
RT: 9.77 min Scan# 1332

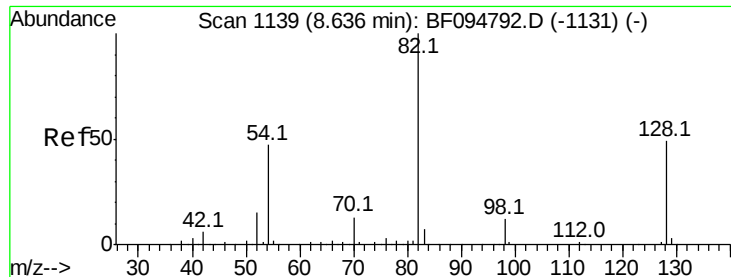
Delta R.T. -0.01 min

Lab File: BF095396.D

Acq: 24 May 2017 18:59

Tgt Ion:	136	Resp:	280048
Ion Ratio	Lower	Upper	
136	100		
137	10.4	8.5	12.7
54	6.9	4.9	7.3
68	5.3	4.1	6.1





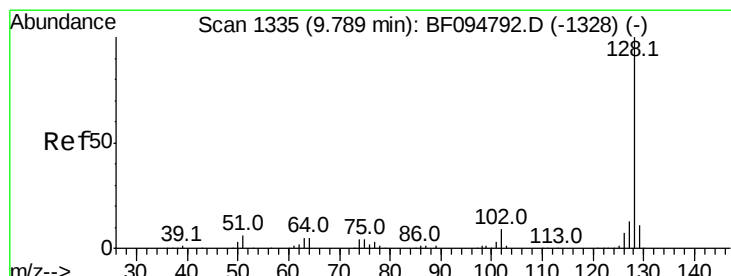
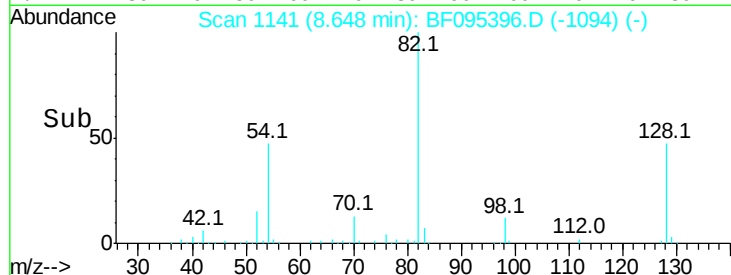
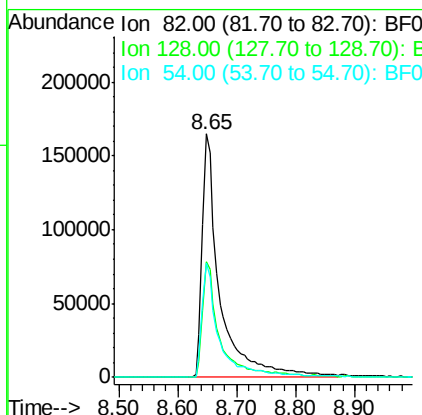
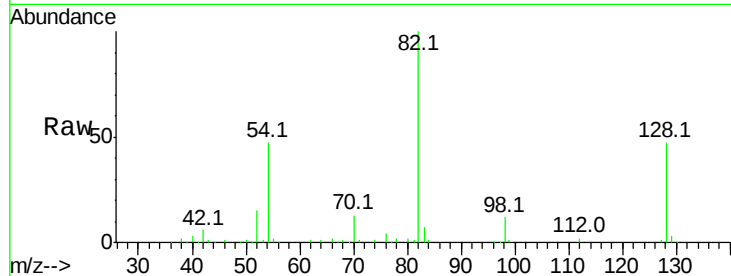
#23
Nitrobenzene-d5
Concen: 77.85 ng
RT: 8.65 min Scan# 1141
Delta R.T. -0.02 min
Lab File: BF095396.D
Acq: 24 May 2017 18:59

Instrument :
BNA_F
ClientSampleId :
EP1-WC2(0-6)

Tot Ion	Ratio	Resp	Lower	Upper
82	100			
128	47.3	34.0	51.0	
54	46.7	42.2	63.2	

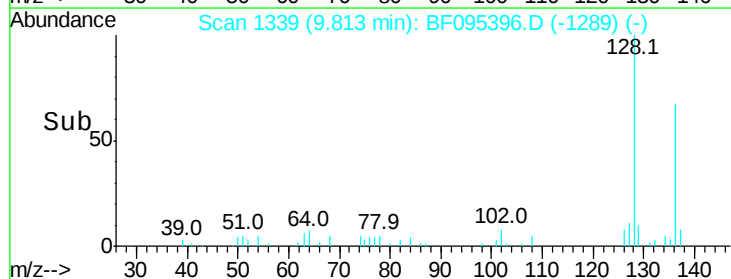
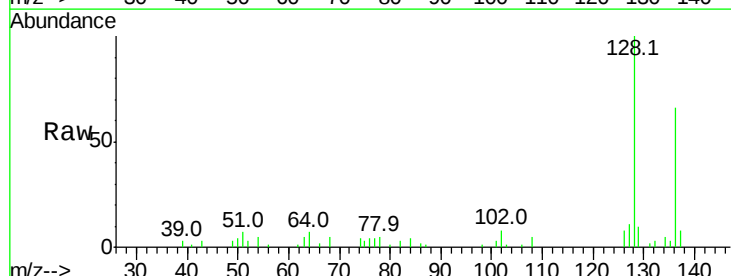
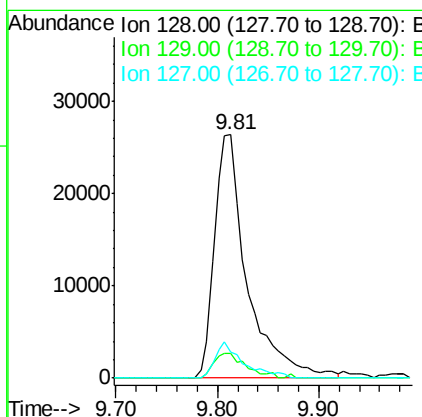
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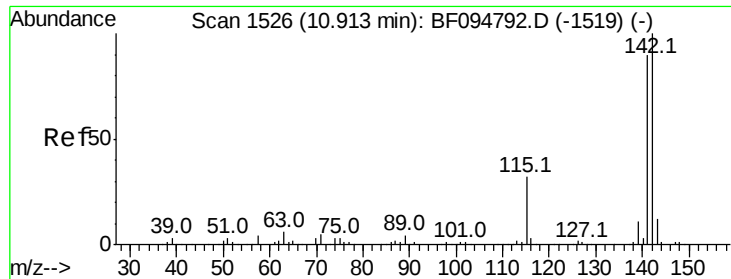
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#31
Naphthalene
Concen: 4.18 ng
RT: 9.81 min Scan# 1339
Delta R.T. -0.01 min
Lab File: BF095396.D
Acq: 24 May 2017 18:59

Tgt Ion	Ratio	Resp	Lower	Upper
128	100			
129	10.3	9.0	13.6	
127	10.9	10.8	16.2	





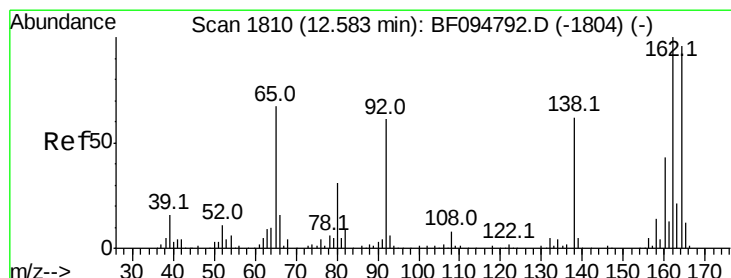
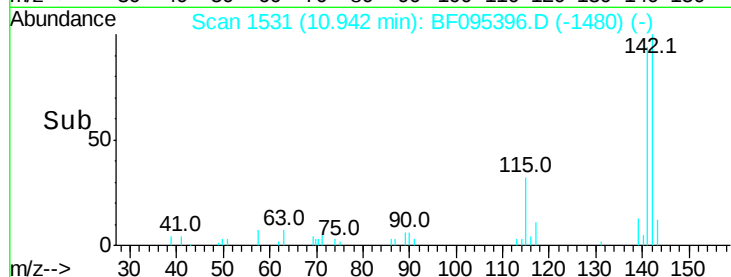
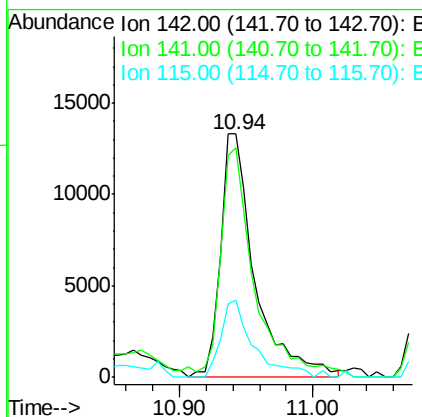
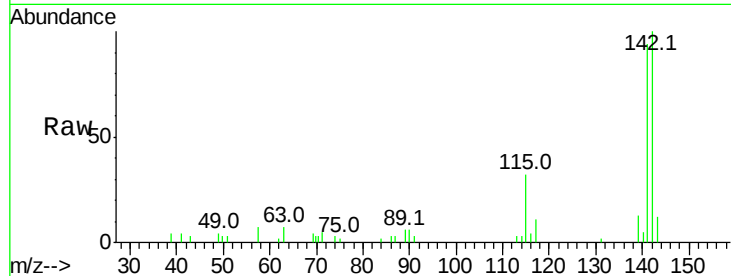
#37
2-Methylnaphthalene
Concen: 2.62 ng
RT: 10.94 min Scan# 1531
Delta R.T. 0.00 min
Lab File: BF095396.D
Acq: 24 May 2017 18:59

Instrument :
BNA_F
ClientSampleId :
EP1-WC2(0-6)

Tot Ion	Ratio	Lower	Upper
142	100		
141	94.3	71.3	106.9
115	31.6	27.1	40.7

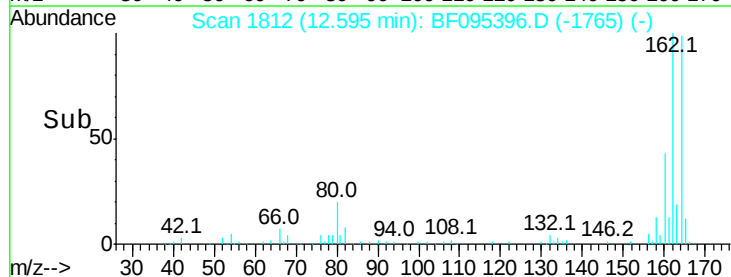
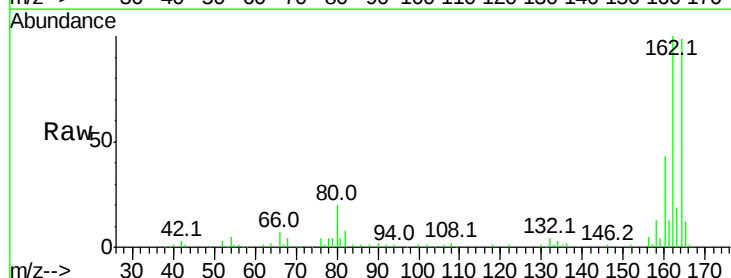
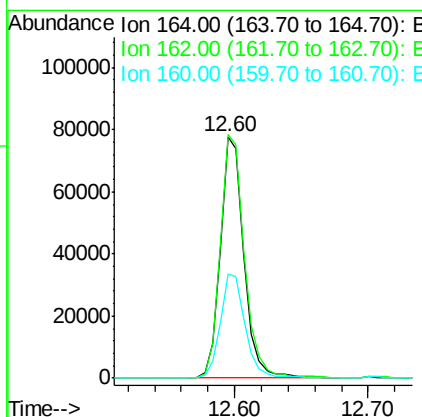
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#38
Acenaphthene-d10
Concen: 20.00 ng
RT: 12.60 min Scan# 1812
Delta R.T. -0.02 min
Lab File: BF095396.D
Acq: 24 May 2017 18:59

Tgt Ion	Ratio	Lower	Upper
164	100		
162	100.8	82.6	123.8
160	43.4	36.2	54.2





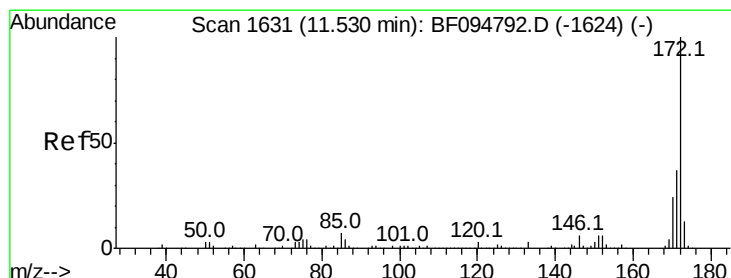
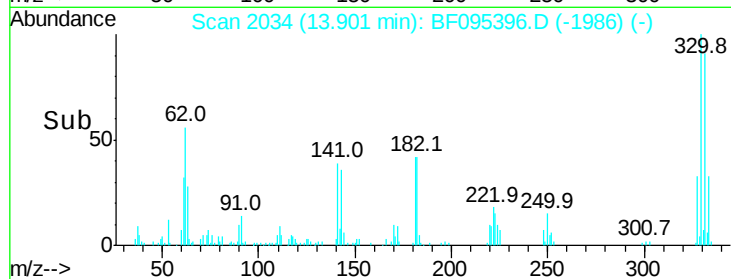
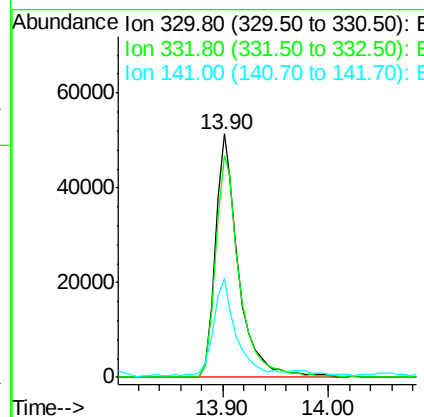
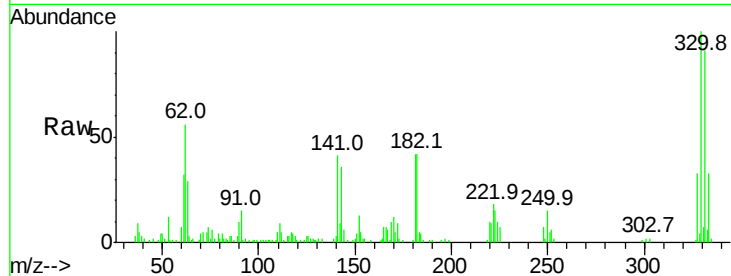
#41
 2,4,6-Tribromophenol
 Concen: 99.19 ng
 RT: 13.90 min Scan# 2034
 Delta R.T. -0.02 min
 Lab File: BF095396.D
 Acq: 24 May 2017 18:59

Instrument :
 BNA_F
 ClientSampleId :
 EP1-WC2(0-6)

Tot Ion	Ratio	Lower	Upper
330	100		
332	94.9	76.6	115.0
141	38.2	31.4	47.2

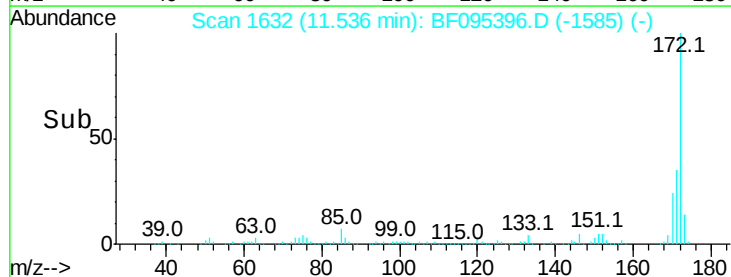
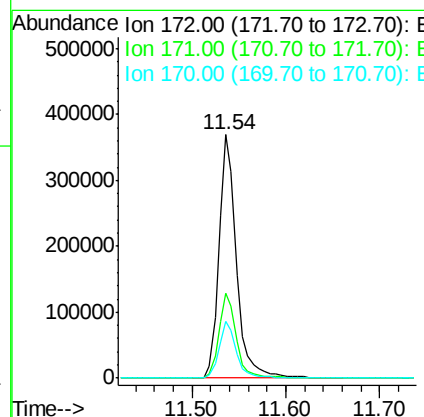
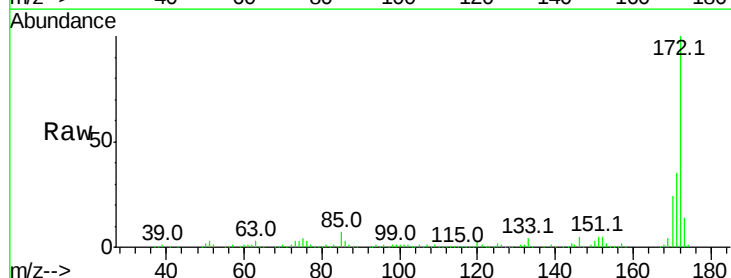
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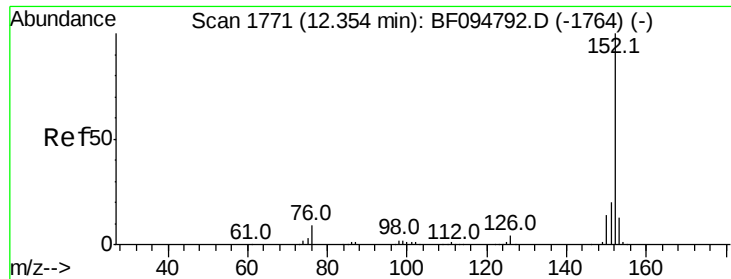
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#44
 2-Fluorobiphenyl
 Concen: 72.00 ng
 RT: 11.54 min Scan# 1632
 Delta R.T. -0.02 min
 Lab File: BF095396.D
 Acq: 24 May 2017 18:59

Tgt Ion	Ratio	Lower	Upper
172	100		
171	34.8	29.6	44.4
170	23.5	19.8	29.8





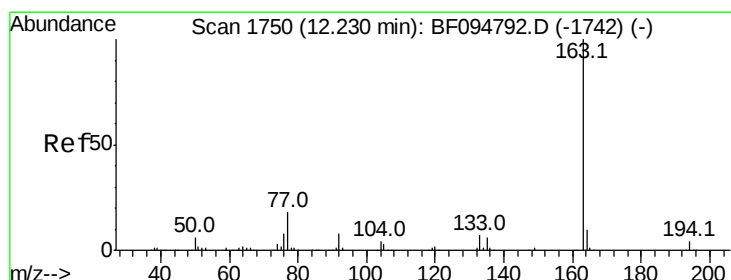
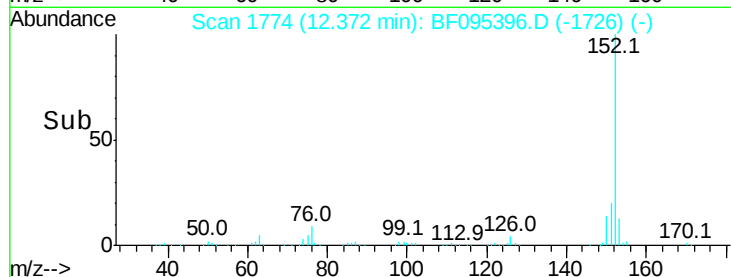
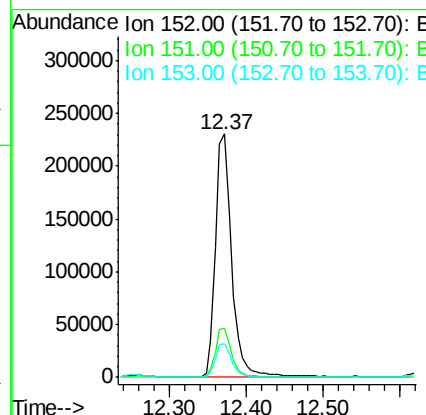
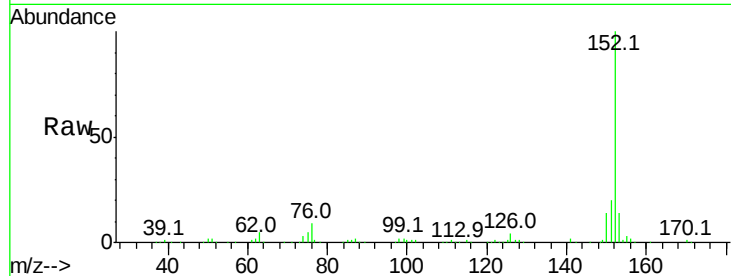
#48
Acenaphthylene
Concen: 32.61 ng
RT: 12.37 min Scan# 1774
Delta R.T. -0.02 min
Lab File: BF095396.D
Acq: 24 May 2017 18:59

Instrument :
BNA_F
ClientSampleId :
EP1-WC2(0-6)

Tot Ion	Ratio	Lower	Upper
152	100		
151	20.1	16.8	25.2
153	13.7	10.8	16.2

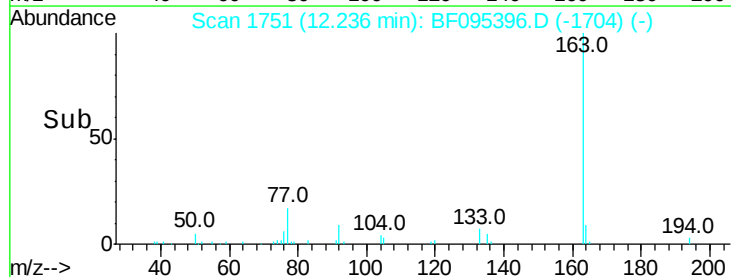
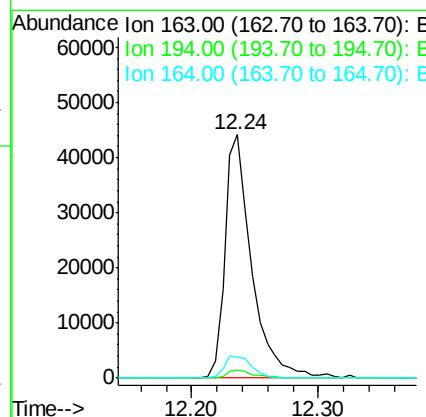
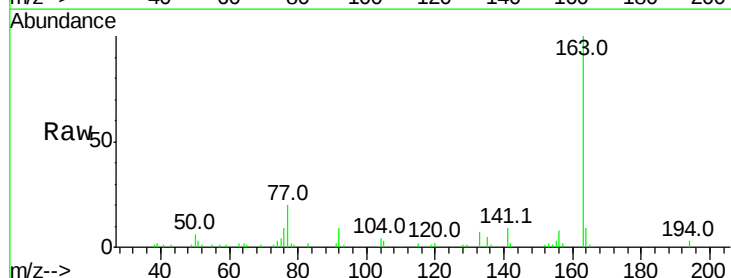
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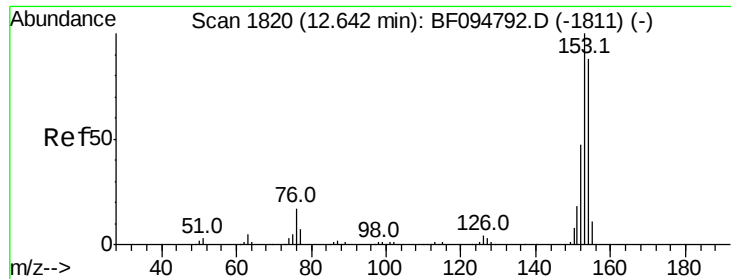
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#49
Dimethylphthalate
Concen: 8.12 ng
RT: 12.24 min Scan# 1751
Delta R.T. -0.02 min
Lab File: BF095396.D
Acq: 24 May 2017 18:59

Tgt Ion	Ratio	Lower	Upper
163	100		
194	3.4	2.6	4.0
164	8.6	8.4	12.6





#51

Acenaphthene

Concen: 13.44 ng

RT: 12.65 min Scan# 1821

Delta R.T. -0.02 min

Lab File: BF095396.D

Acq: 24 May 2017 18:59

Instrument :

BNA_F

ClientSampleId :

EP1-WC2(0-6)

Tot Ion:154 Resp: 82673

Ion Ratio Lower Upper

154 100

153 115.8 90.5 135.7

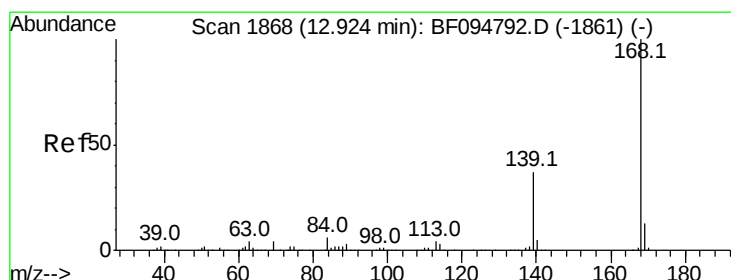
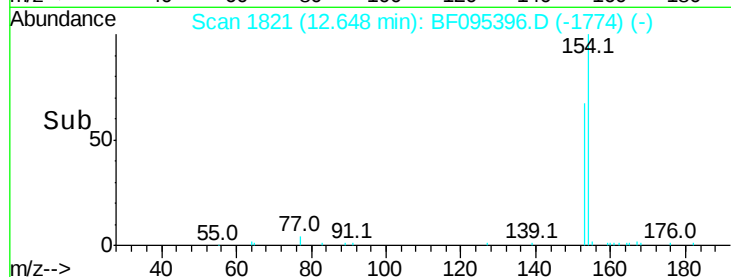
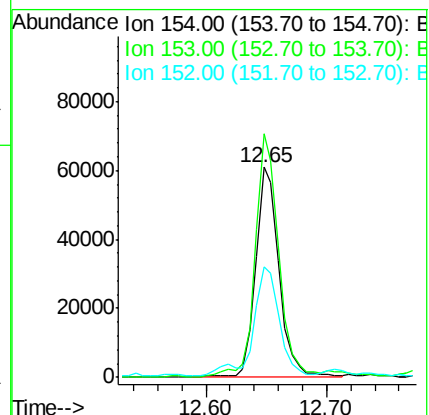
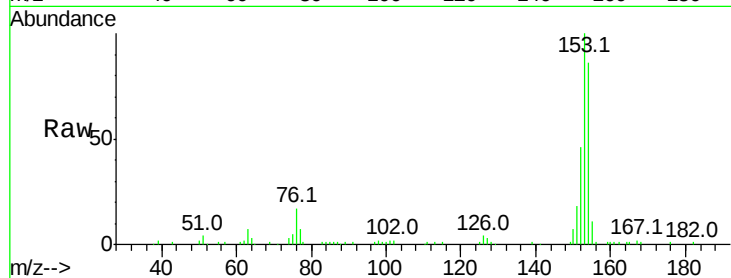
152 52.8 43.6 65.4

Manual Integrations

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#54

Dibenzofuran

Concen: 6.50 ng

RT: 12.94 min Scan# 1871

Delta R.T. -0.02 min

Lab File: BF095396.D

Acq: 24 May 2017 18:59

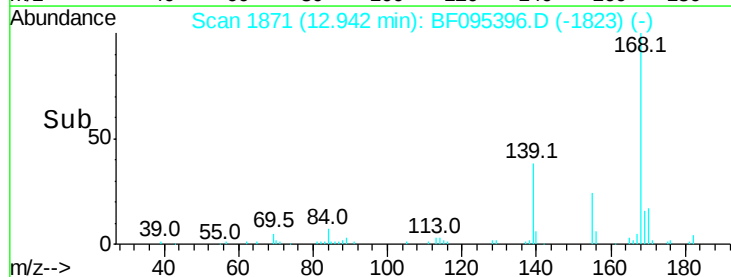
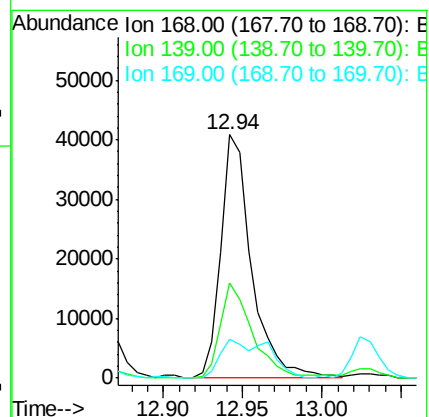
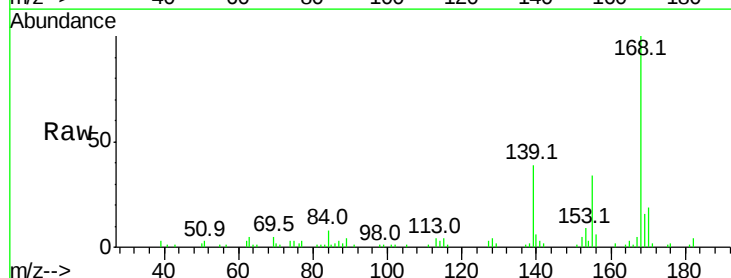
Tgt Ion:168 Resp: 55331

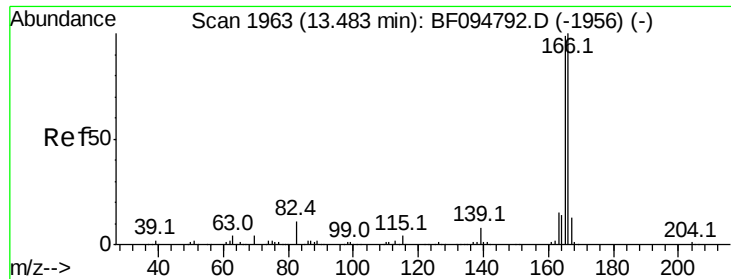
Ion Ratio Lower Upper

168 100

139 39.1 30.6 45.8

169 15.7 10.8 16.2





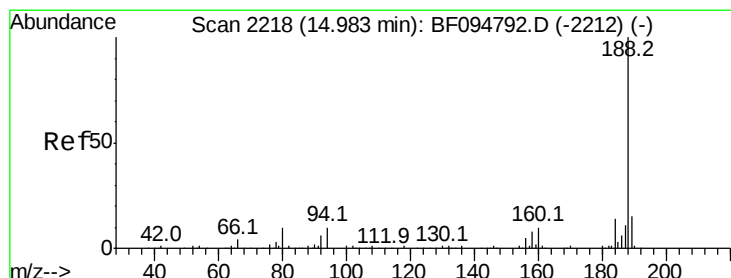
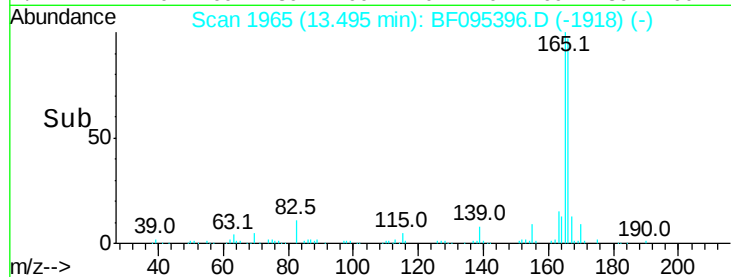
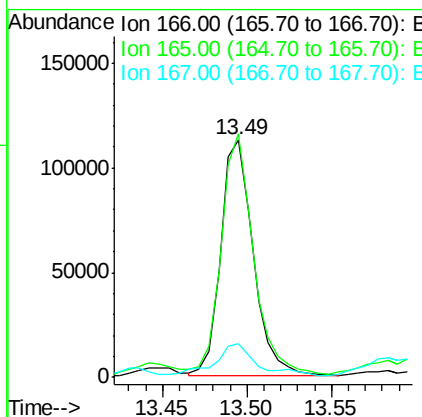
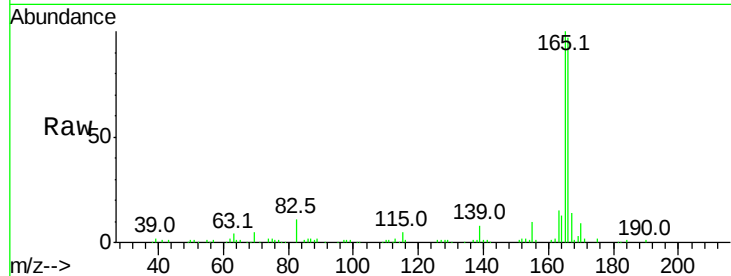
#57
Fluorene
 Concen: 20.33 ng
 RT: 13.49 min Scan# 1965
 Delta R.T. -0.02 min
 Lab File: BF095396.D
 Acq: 24 May 2017 18:59

Instrument :
 BNA_F
 ClientSampleId :
 EP1-WC2(0-6)

Tot Ion	Ratio	Lower	Upper
166	100		
165	102.6	78.8	118.2
167	14.1	10.6	16.0

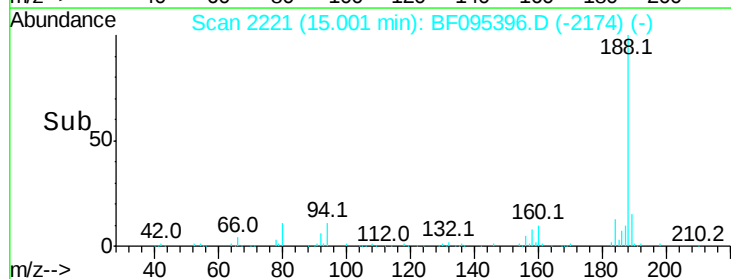
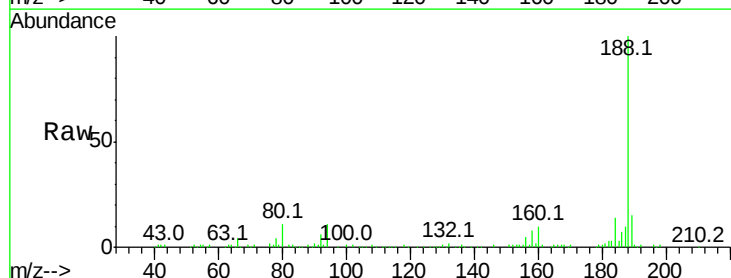
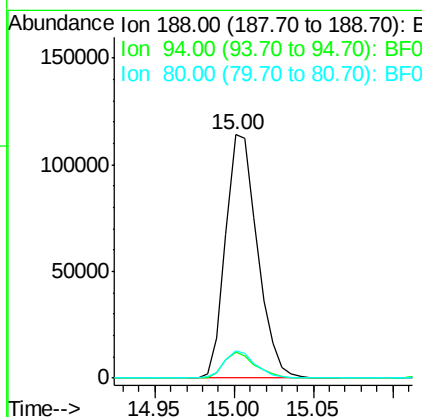
Manual Integrations
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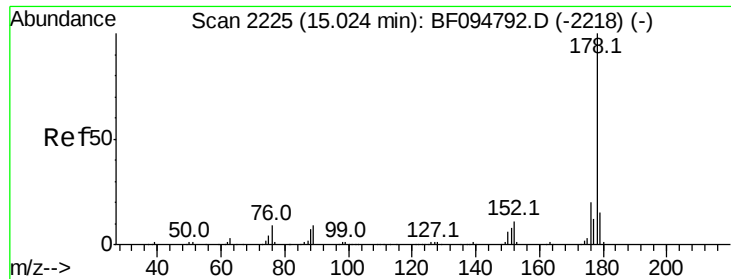
mohammad
 5/25/2017 8:52:19 AM



#63
Phenanthrene-d10
 Concen: 20.00 ng
 RT: 15.00 min Scan# 2221
 Delta R.T. -0.02 min
 Lab File: BF095396.D
 Acq: 24 May 2017 18:59

Tgt Ion	Ratio	Lower	Upper
188	100		
94	10.6	9.4	14.2
80	11.3	10.2	15.2





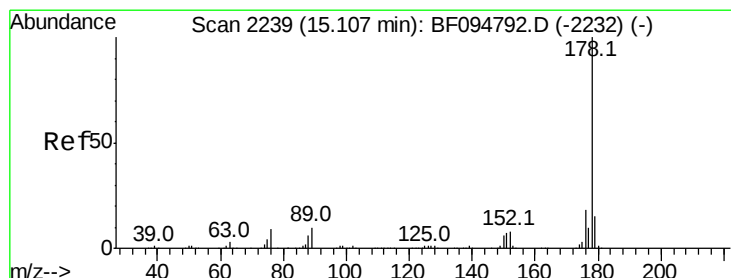
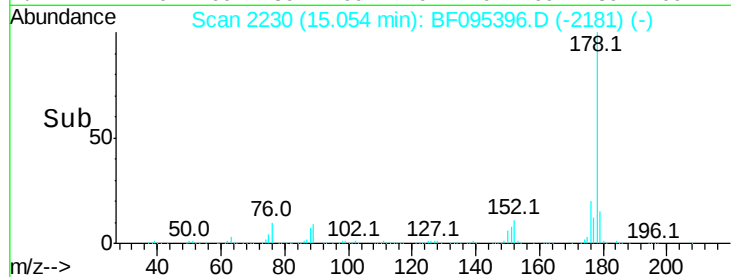
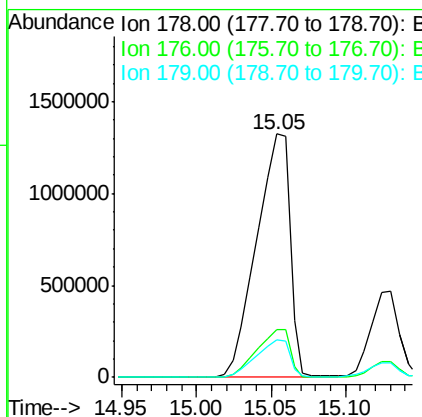
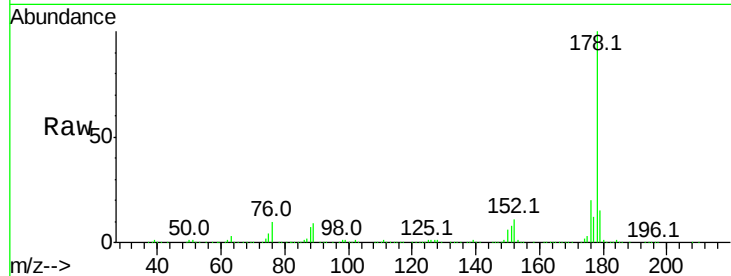
#70
Phenanthrene
Concen: 225.39 ng
RT: 15.05 min Scan# 2230
Delta R.T. -0.01 min
Lab File: BF095396.D
Acq: 24 May 2017 18:59

Instrument :
BNA_F
ClientSampleId :
EP1-WC2(0-6)

Tot Ion:178 Resp: 2062728
Ion Ratio Lower Upper
178 100
176 19.6 16.2 24.4
179 15.4 12.6 19.0

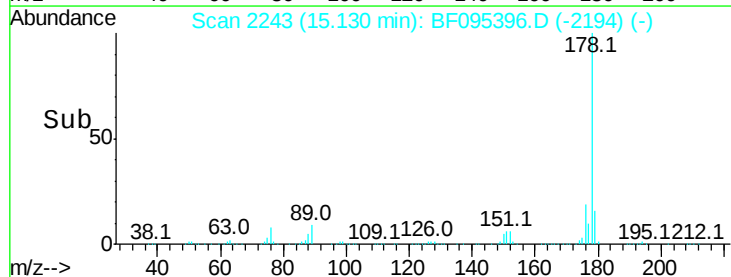
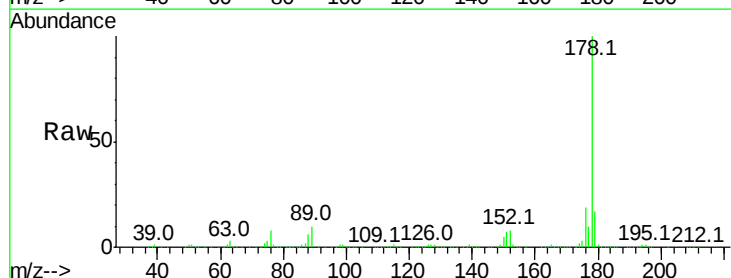
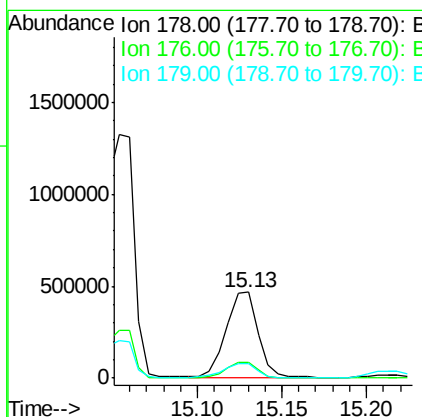
Manual Integrations
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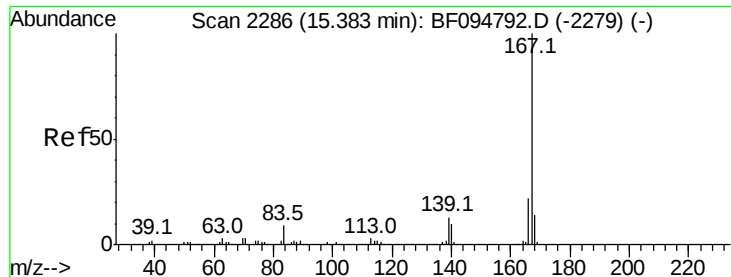
mohammad
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#71
Anthracene
Concen: 65.50 ng
RT: 15.13 min Scan# 2243
Delta R.T. -0.01 min
Lab File: BF095396.D
Acq: 24 May 2017 18:59

Tgt Ion:178 Resp: 612320
Ion Ratio Lower Upper
178 100
176 18.7 15.8 23.8
179 16.5 12.7 19.1





#72

Carbazole

Concen: 14.05 ng

RT: 15.41 min Scan# 2291

Delta R.T. -0.01 min

Lab File: BF095396.D

Acq: 24 May 2017 18:59

Instrument :

BNA_F

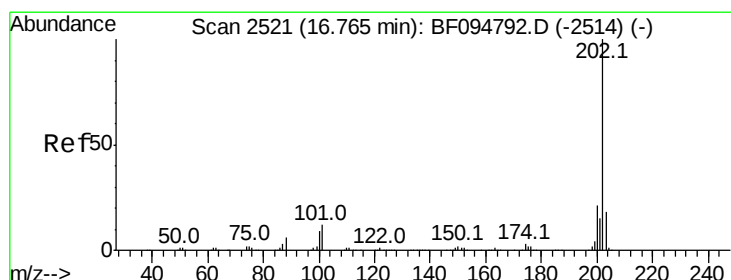
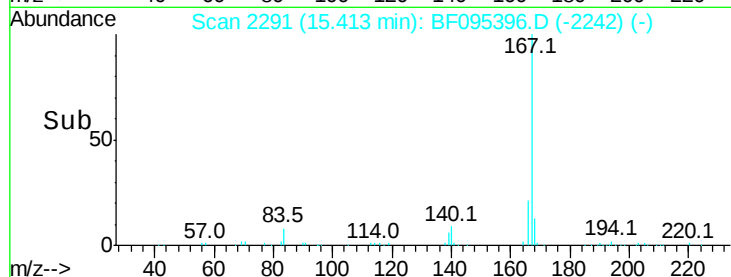
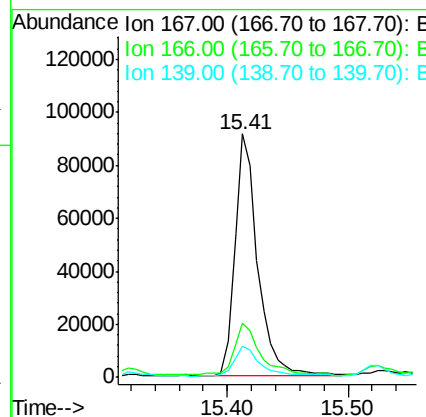
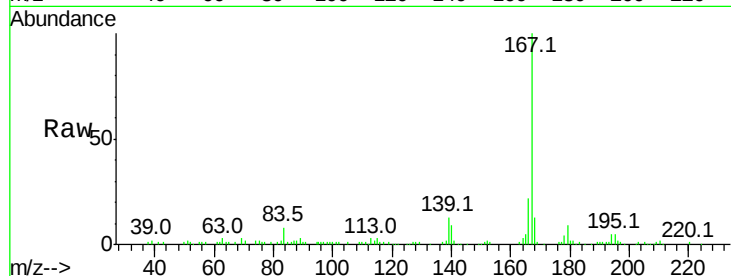
ClientSampleId :

EP1-WC2(0-6)

Tot Ion:	167	Resp:	119493
Ion Ratio	Lower	Upper	
167	100		
166	22.3	18.1	27.1
139	12.5	11.7	17.5

Manual Integrations
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#74

Fluoranthene

Concen: 386.18 ng

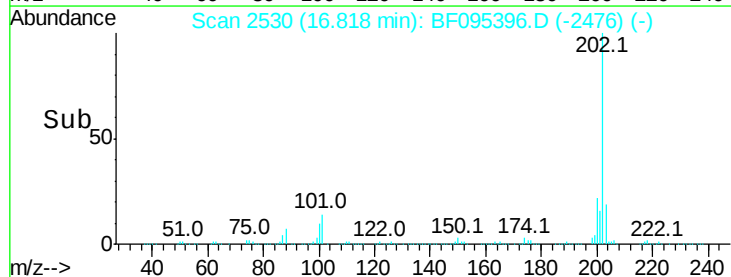
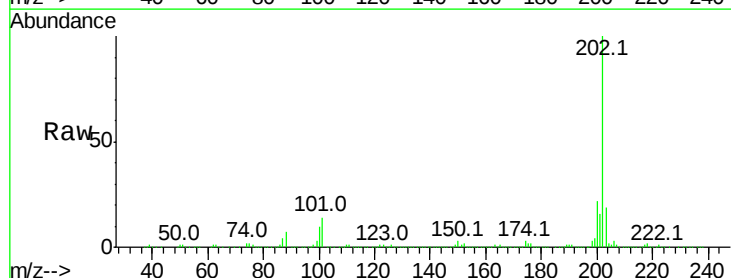
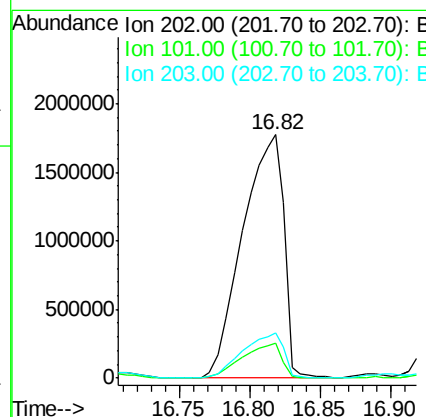
RT: 16.82 min Scan# 2530

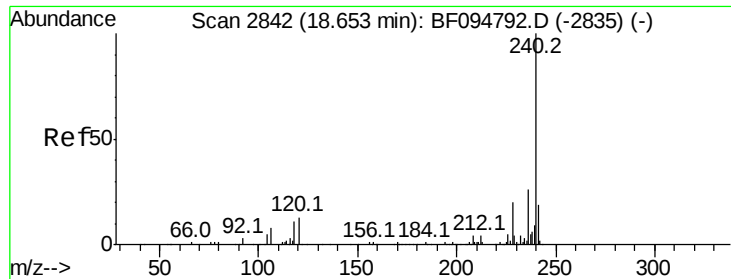
Delta R.T. 0.02 min

Lab File: BF095396.D

Acq: 24 May 2017 18:59

Tgt Ion:	202	Resp:	3625362
Ion Ratio	Lower	Upper	
202	100		
101	14.2	0.0	33.2
203	18.8	0.0	38.1





#75

Chrysene-d12

Concen: 20.00 ng

RT: 18.71 min Scan# 2851

Delta R.T. 0.01 min

Lab File: BF095396.D

Acq: 24 May 2017 18:59

Instrument :

BNA_F

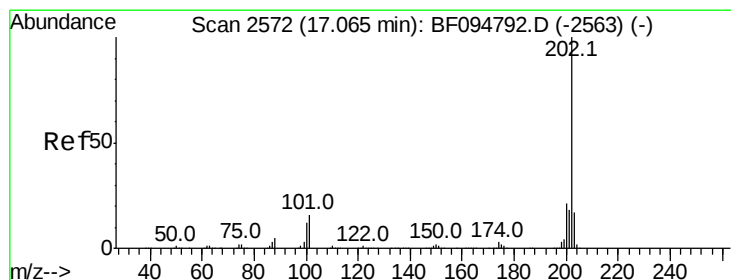
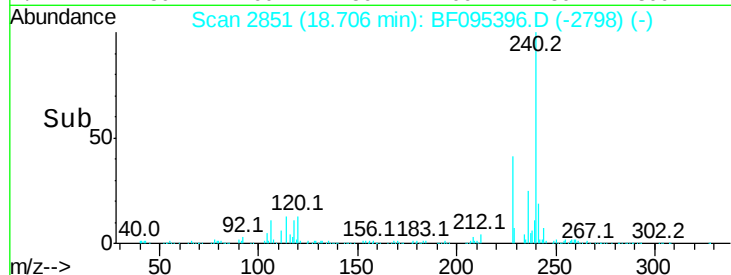
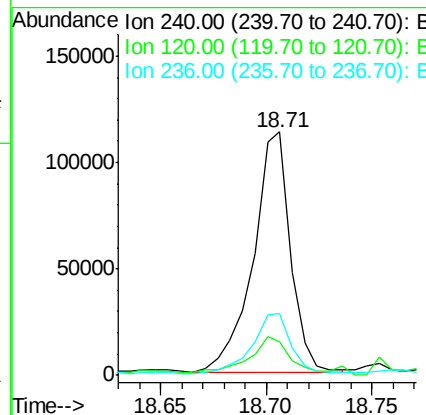
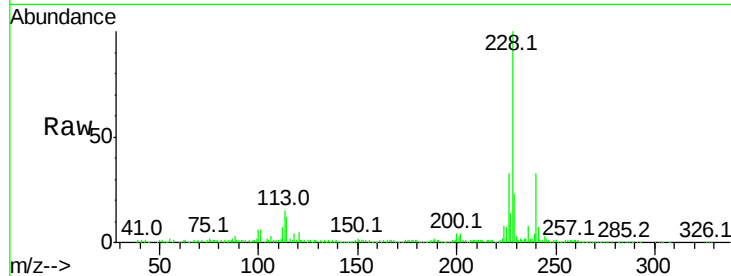
ClientSampleId :

EP1-WC2(0-6)

Tot Ion	Ratio	Lower	Upper
240	100		
120	13.8	5.8	8.8#
236	25.2	20.5	30.7

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#77

Pyrene

Concen: 359.21 ng

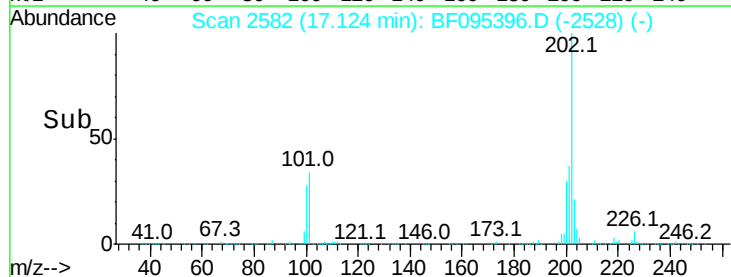
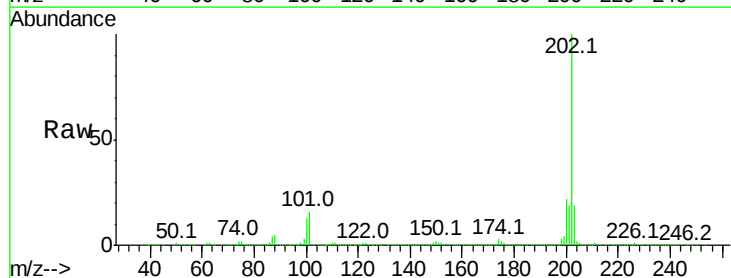
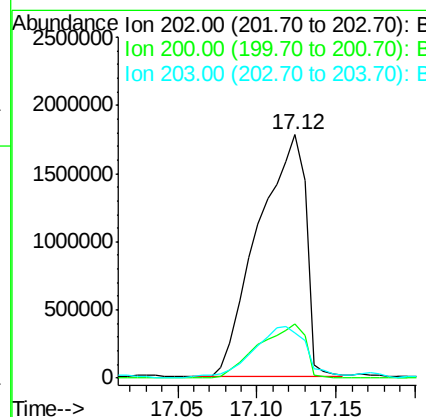
RT: 17.12 min Scan# 2582

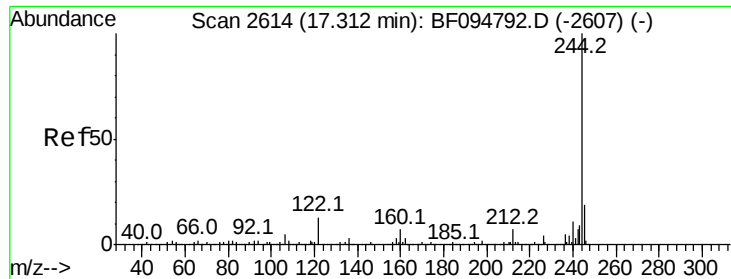
Delta R.T. 0.02 min

Lab File: BF095396.D

Acq: 24 May 2017 18:59

Tgt Ion	Ratio	Lower	Upper
202	100		
200	22.4	17.6	26.4
203	18.8	14.4	21.6





#78

Terphenyl-d14

Concen: 66.76 ng

RT: 17.33 min Scan# 2617

Delta R.T. -0.02 min

Lab File: BF095396.D

Acq: 24 May 2017 18:59

Instrument :

BNA_F

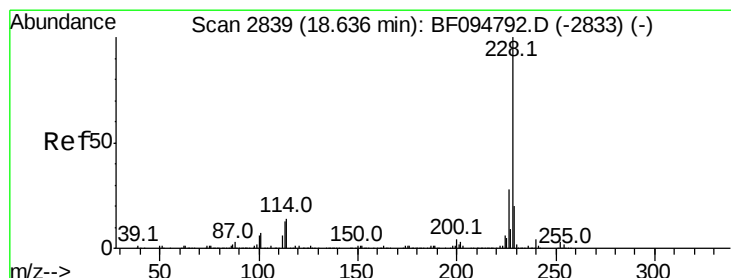
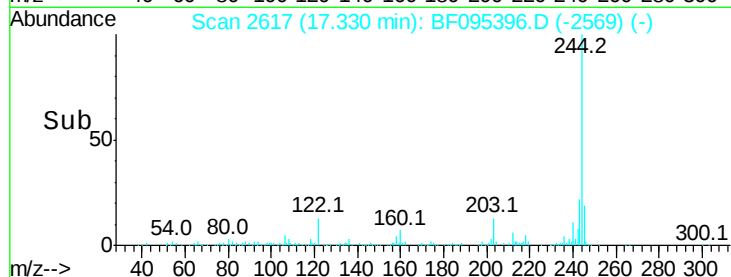
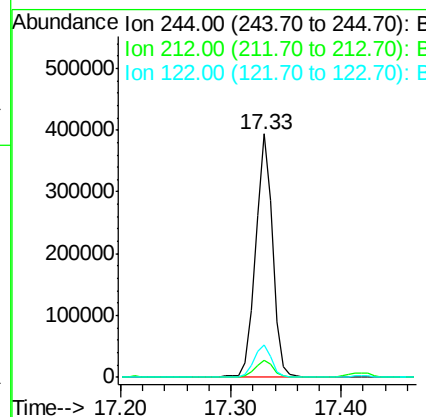
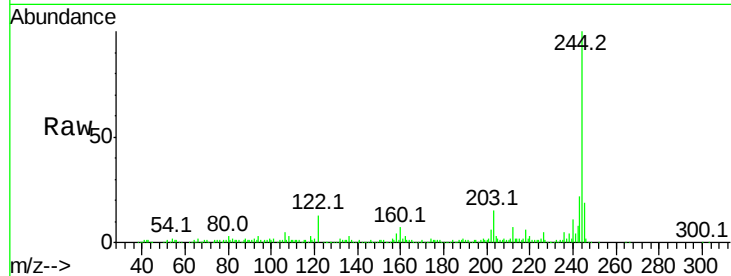
ClientSampleId :

EP1-WC2(0-6)

Tot Ion:	244	Resp:	421459
Ion Ratio		Lower	Upper
244	100		
212	6.8	6.0	9.0
122	13.3	10.3	15.5

Manual Integrations
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#80

Benzo(a)anthracene

Concen: 288.49 ng

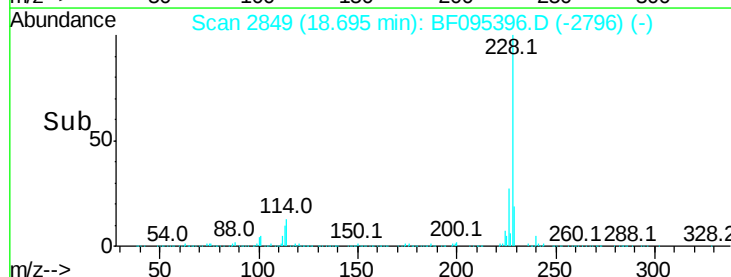
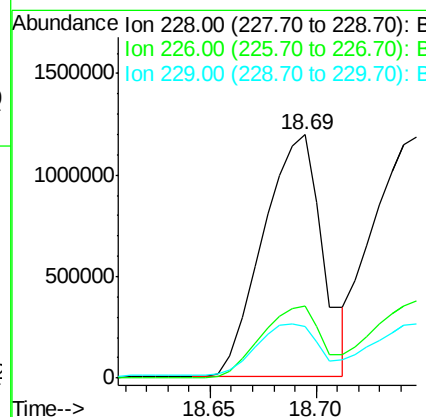
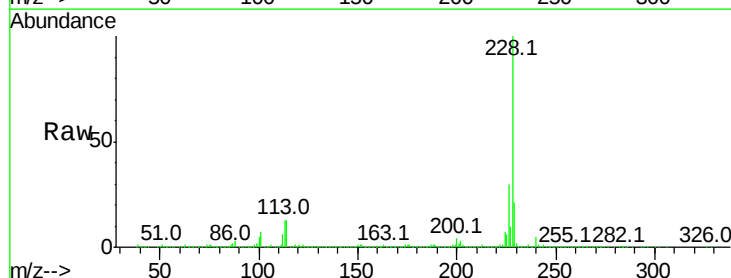
RT: 18.69 min Scan# 2849

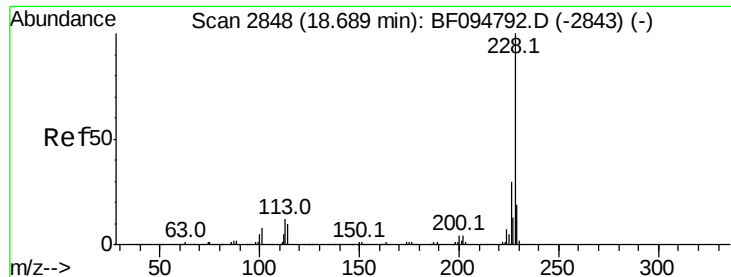
Delta R.T. 0.01 min

Lab File: BF095396.D

Acq: 24 May 2017 18:59

Tgt Ion:	228	Resp:	2334493
Ion Ratio		Lower	Upper
228	100		
226	29.6	22.6	33.8
229	21.3	16.3	24.5





#82

Chrysene

Concen: 254.21 ng

RT: 18.75 min Scan# 2858

Delta R.T. 0.02 min

Lab File: BF095396.D

Acq: 24 May 2017 18:59

Instrument :

BNA_F

ClientSampleId :

EP1-WC2(0-6)

Tot Ion:228 Resp: 1989082

Ion Ratio Lower Upper

228 100

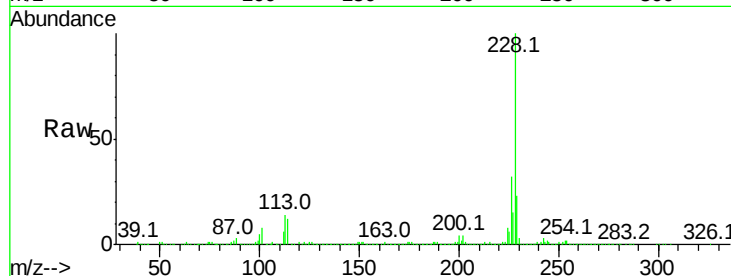
226 32.0 24.9 37.3

229 22.5 15.8 23.6

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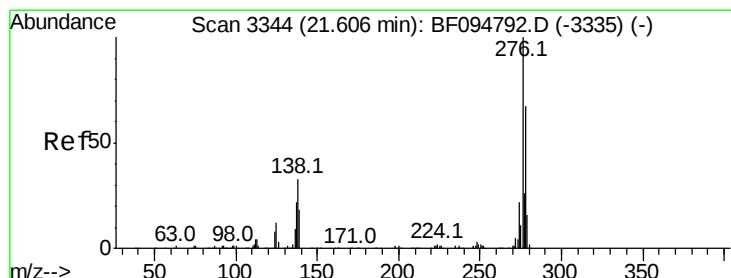
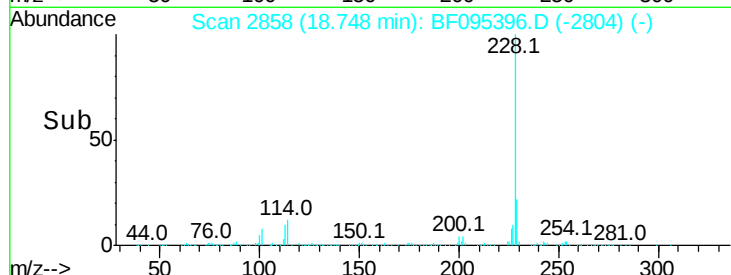
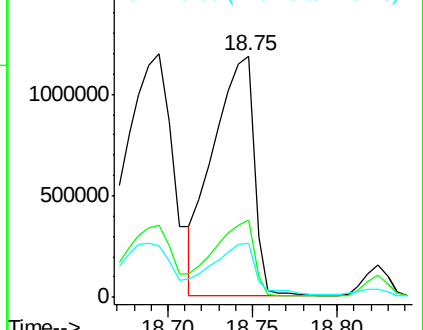
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Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E



#85

Indeno(1,2,3-cd)pyrene

Concen: 99.30 ng

RT: 21.71 min Scan# 3361

Delta R.T. 0.01 min

Lab File: BF095396.D

Acq: 24 May 2017 18:59

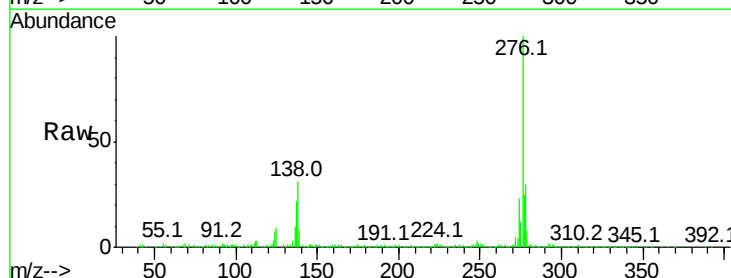
Tgt Ion:276 Resp: 630950

Ion Ratio Lower Upper

276 100

138 31.2 27.8 41.6

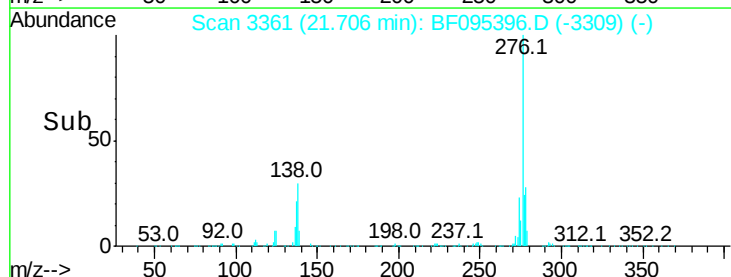
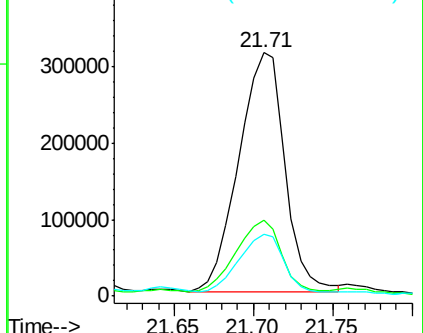
277 23.2 20.2 30.4

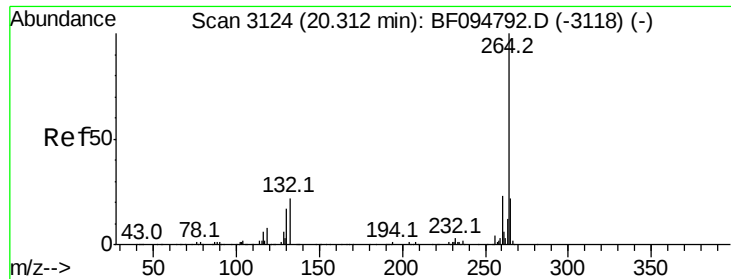


Abundance Ion 276.00 (275.70 to 276.70): E

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# 3134

Delta R.T. 0.01 min

Lab File: BF095396.D

Acq: 24 May 2017 18:59

Instrument :

BNA_F

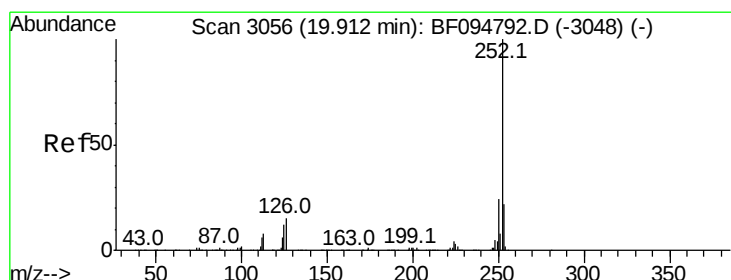
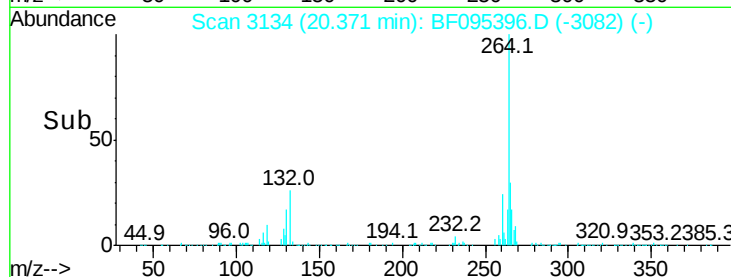
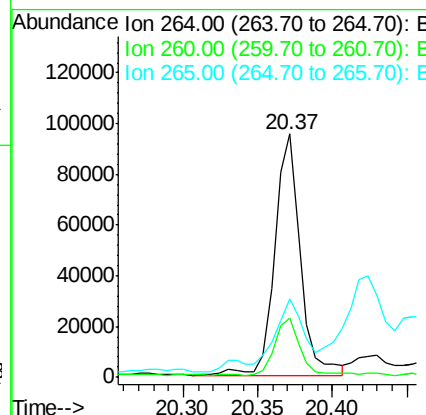
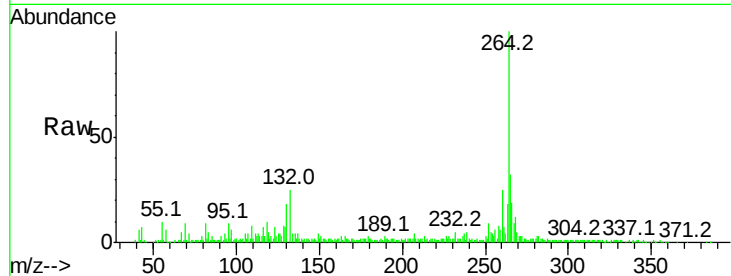
ClientSampleId :

EP1-WC2(0-6)

Tot Ion	Ratio	Lower	Upper
264	100		
260	24.6	19.5	29.3
265	32.3	17.2	25.8

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#87

Benzo(b)fluoranthene

Concen: 250.36 ng m

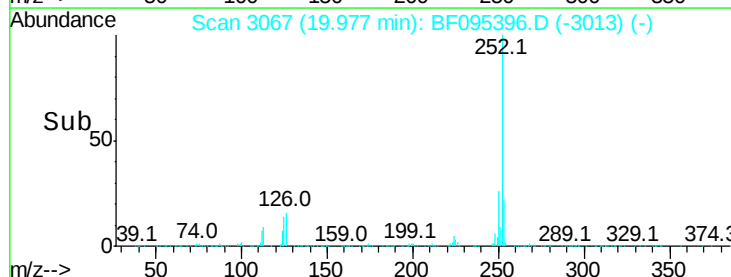
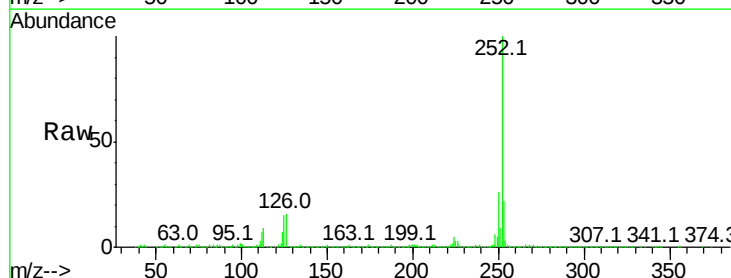
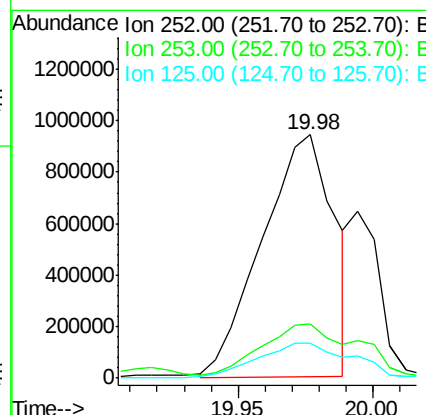
RT: 19.98 min Scan# 3067

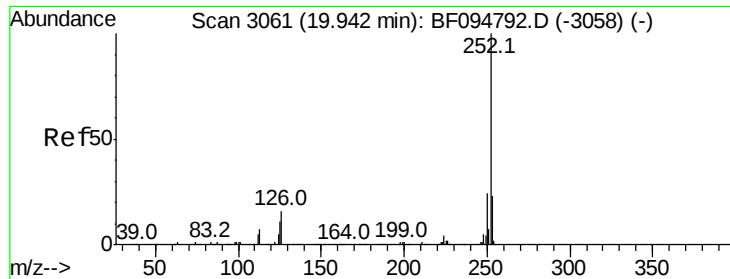
Delta R.T. 0.02 min

Lab File: BF095396.D

Acq: 24 May 2017 18:59

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.5	18.1	27.1
125	14.5	9.8	14.8





#88

Benzo(k)fluoranthene

Concen: 70.01 ng m

RT: 19.99 min Scan# 3070

Delta R.T. 0.01 min

Lab File: BF095396.D

Acq: 24 May 2017 18:59

Instrument :

BNA_F

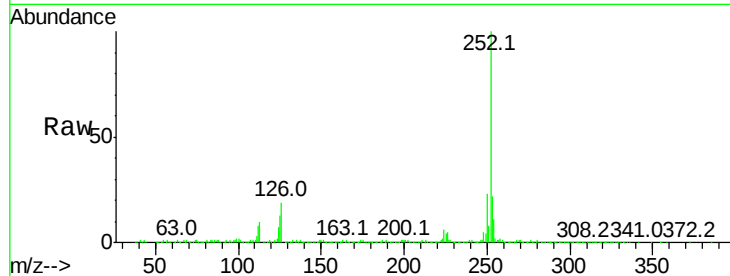
ClientSampleId :

EP1-WC2(0-6)

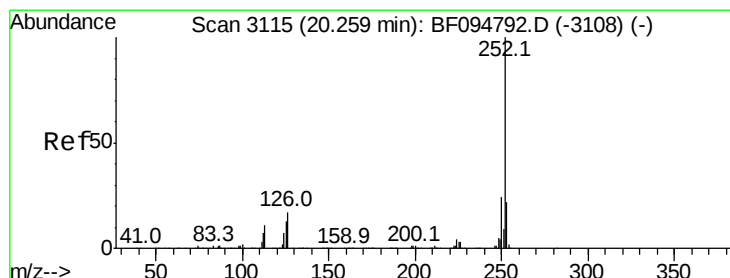
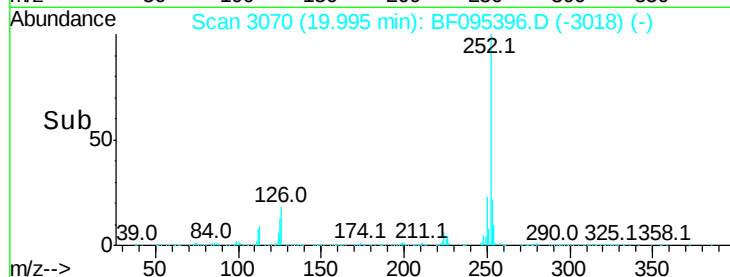
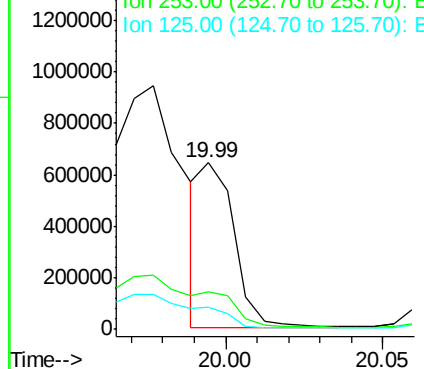
Tot Ion:	252	Resp:	473899
Ion Ratio	Lower	Upper	
252	100		
253	22.3	18.4	27.6
125	13.4	13.1	19.7

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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: 161.69 ng

RT: 20.32 min Scan# 3126

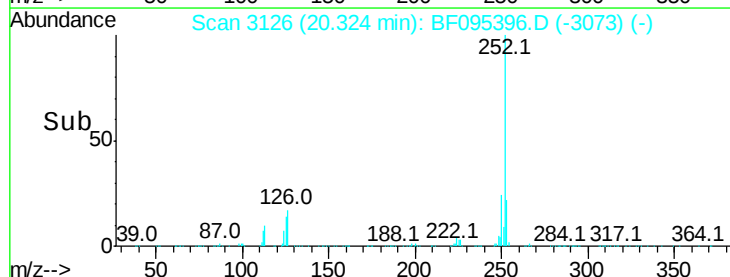
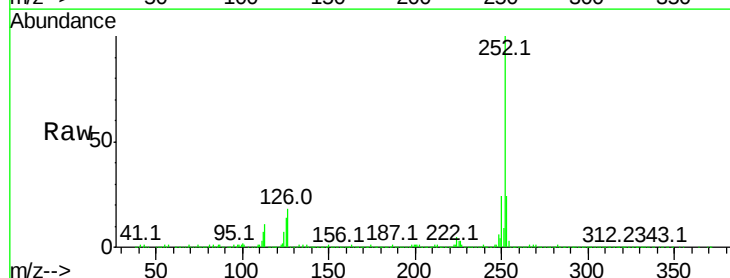
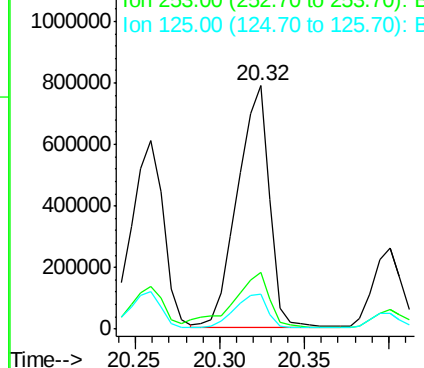
Delta R.T. 0.01 min

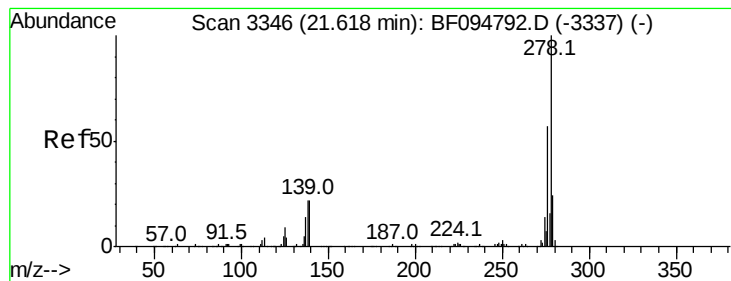
Lab File: BF095396.D

Acq: 24 May 2017 18:59

Tgt Ion:	252	Resp:	1046996
Ion Ratio	Lower	Upper	
252	100		
253	23.5	17.5	26.3
125	14.4	11.0	16.4

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





#90

Dibenzo(a,h)anthracene

Concen: 30.35 ng/mL

RT: 21.70 min Scan# 3360

Delta R.T. 0.00 min

Lab File: BF095396.D

Acq: 24 May 2017 18:59

Instrument :

BNA_F

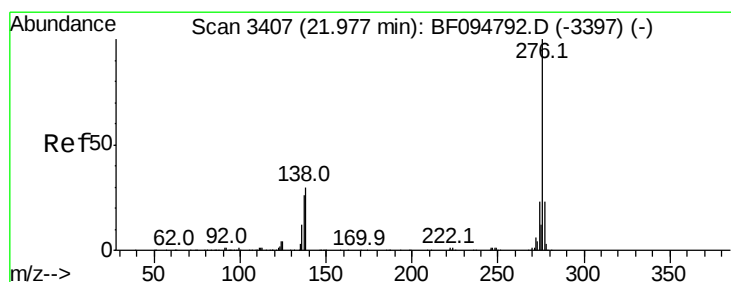
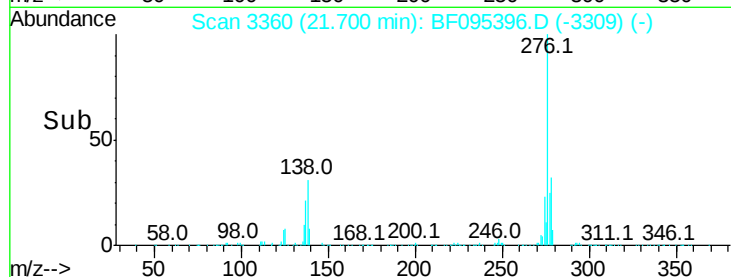
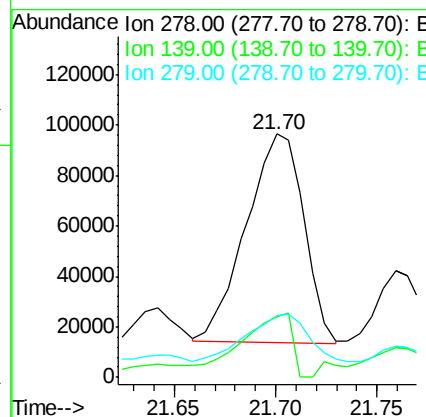
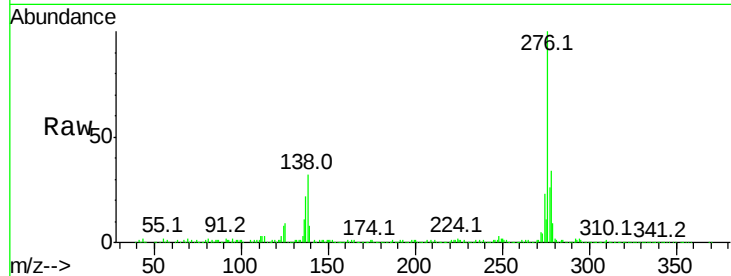
ClientSampleId :

EP1-WC2(0-6)

Tot Ion:	278	Resp:	162318
Ion Ratio	Lower	Upper	
278	100		
139	25.1	16.6	24.8#
279	25.6	19.3	28.9

Manual Integrations
APPROVED

mohammad
5/25/2017 8:52:19 AM



#91

Benzo(g,h,i)perylene

Concen: 108.94 ng/mL

RT: 22.10 min Scan# 3428

Delta R.T. 0.02 min

Lab File: BF095396.D

Acq: 24 May 2017 18:59

Tgt Ion:	276	Resp:	571734
Ion Ratio	Lower	Upper	
276	100		
277	25.2	18.6	28.0
138	30.5	25.4	38.0

