

Data Path : Z:\HPCHEM1\BNA F\DATA\BF080917\
 Data File : BF097550.D
 Acq On : 10 Aug 2017 9:20
 Operator : SJ/JU
 Sample : I4677-05 10X
 Misc :
 ALS Vial : 28 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 E2-E10-WSW

Manual Integrations
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Quant Time: Aug 10 14:09:20 2017
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF072517.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Aug 07 16:02:51 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.40	152	116849	20.00	ng	-0.01
21) Naphthalene-d8	7.68	136	479342	20.00	ng	-0.02
38) Acenaphthene-d10	9.42	164	197814	20.00	ng	-0.02
63) Phenanthrene-d10	10.90	188	271608	20.00	ng	-0.02
75) Chrysene-d12	13.52	240	197033	20.00	ng	-0.02
86) Perylene-d12	14.86	264	182289	20.00	ng	0.00

System Monitoring Compounds						
5) 2-Fluorophenol	5.01	112	81413	10.50	ng	0.00
7) Phenol-d6	6.09	99	118127	13.35	ng	0.00
23) Nitrobenzene-d5	6.98	82	69336	8.49	ng	-0.01
41) 2,4,6-Tribromophenol	10.22	330	16703	10.69	ng	-0.02
44) 2-Fluorobiphenyl	8.76	172	119837	10.28	ng	-0.02
78) Terphenyl-d14	12.47	244	57619	5.96	ng	-0.02

Target Compounds				Qvalue		
31) Naphthalene	7.70	128	97131	4.299	ng	99
37) 2-Methylnaphthalene	8.40	142	48635	3.400	ng	96
48) Acenaphthylene	9.29	152	43410	2.275	ng	98
69) Pentachlorophenol	10.73	266	11495	9.140	ng	95
70) Phenanthrene	10.92	178	89395	6.143	ng	98
71) Anthracene	10.97	178	70788	4.749	ng	99
74) Fluoranthene	12.10	202	127981	8.977	ng	99
77) Pyrene	12.33	202	133115	8.252	ng	97
80) Benzo(a)anthracene	13.51	228	76274	5.983	ng	94
82) Chrysene	13.54	228	73841	5.932	ng	98
85) Indeno(1,2,3-cd)pyrene	16.04	276	72921	6.831	ng	96
87) Benzo(b)fluoranthene	14.52	252	138081m	12.601	ng	
88) Benzo(k)fluoranthene	14.53	252	49799m	4.769	ng	
89) Benzo(a)pyrene	14.82	252	84523	8.428	ng	98
90) Dibenzo(a,h)anthracene	16.04	278	17106	2.080	ng	# 73
91) Benzo(g,h,i)perylene	16.40	276	65775	7.627	ng	95

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

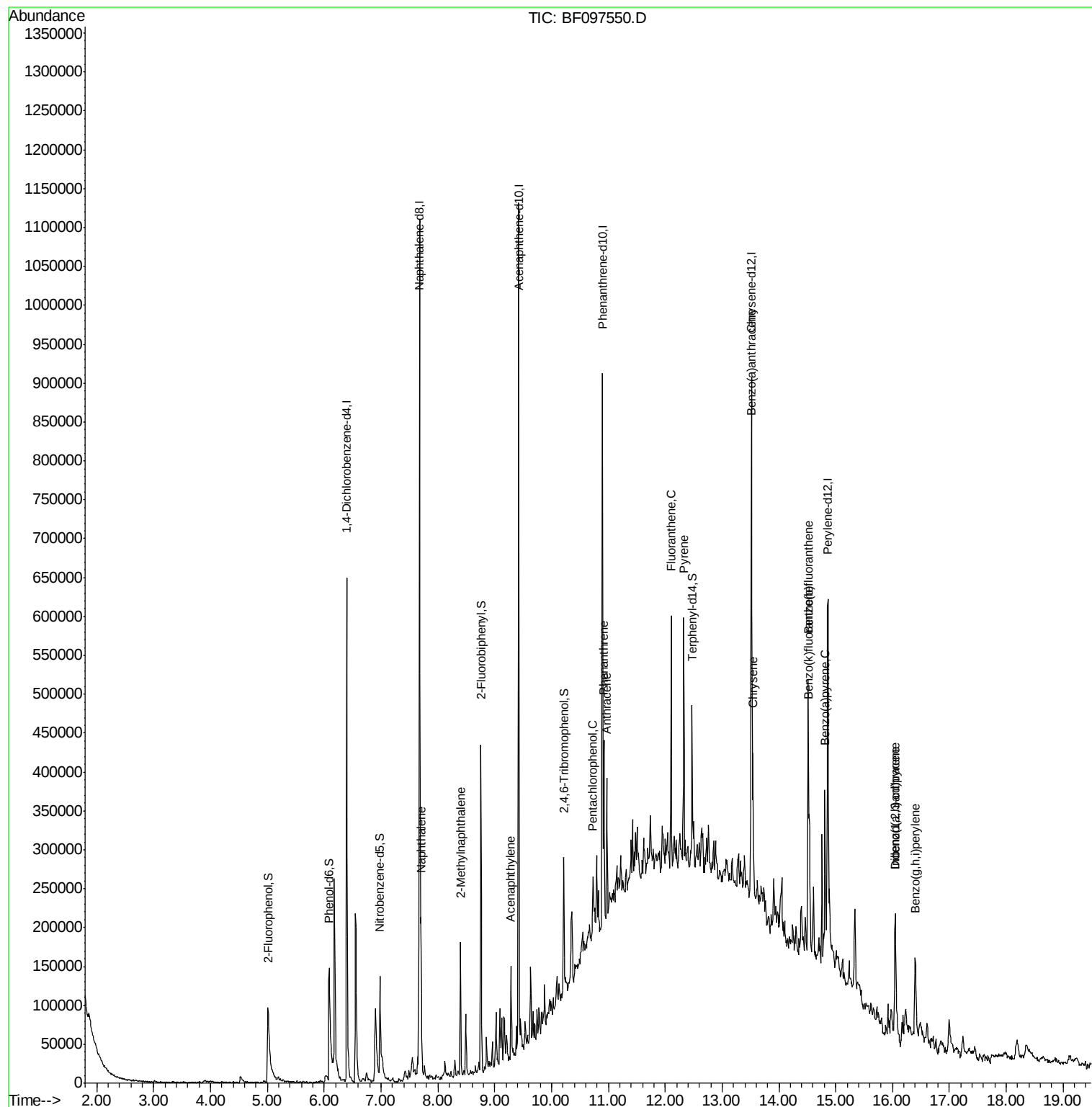
Data Path : Z:\HPCHEM1\BNA F\DATA\BF080917\
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ALS Vial : 28 Sample Multiplier: 1

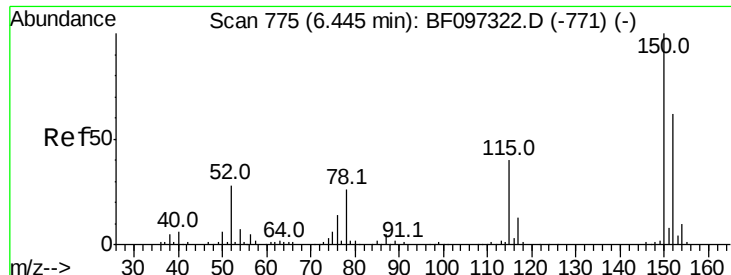
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#1

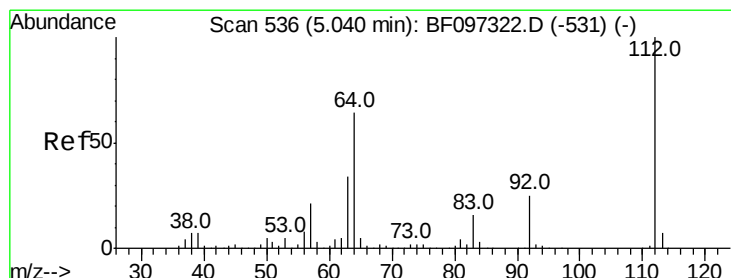
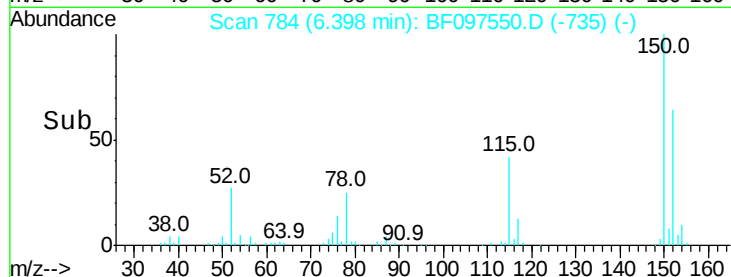
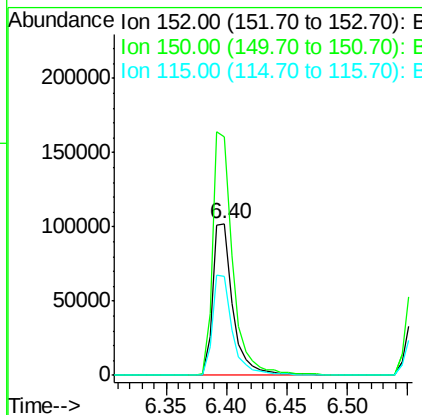
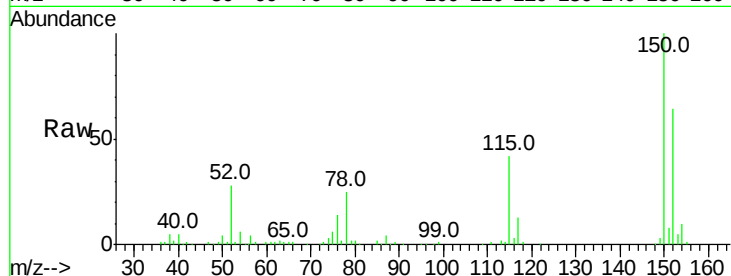
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.40 min Scan# 784
Delta R.T. -0.01 min
Lab File: BF097550.D
Acq: 10 Aug 2017 9:20

Instrument :
BNA_F
ClientSampleId :
E2-E10-WSW

Tot Ion	Ratio	Lower	Upper
152	100		
150	156.5	126.2	189.2
115	65.1	52.2	78.2

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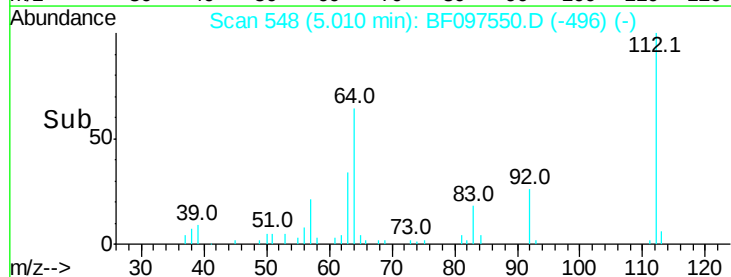
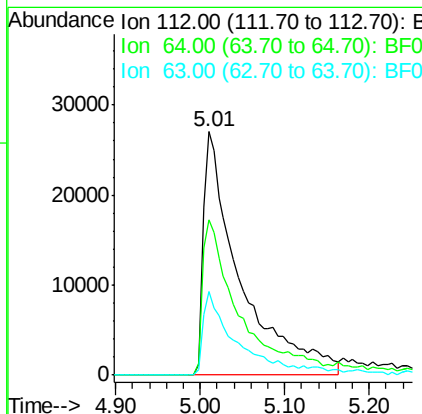
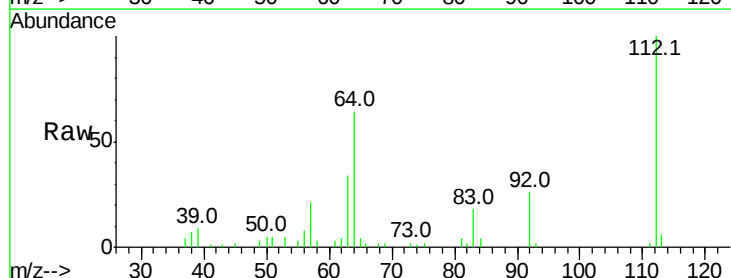
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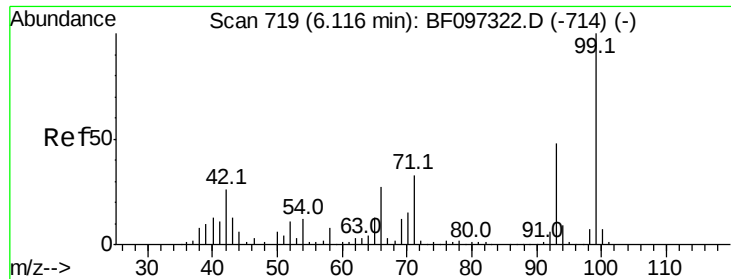


#5

2-Fluorophenol
Concen: 10.503 ng
RT: 5.01 min Scan# 548
Delta R.T. 0.01 min
Lab File: BF097550.D
Acq: 10 Aug 2017 9:20

Tgt Ion	Ratio	Lower	Upper
112	100		
64	63.6	46.0	69.0
63	34.4	23.4	35.0





#7

Phenol-d6

Concen: 13.349 ng

RT: 6.09 min Scan# 731

Delta R.T. 0.00 min

Lab File: BF097550.D

Acq: 10 Aug 2017 9:20

Instrument :

BNA_F

ClientSampleId :

E2-E10-WSW

Tot Ion: 99 Resp: 118127
Ion Ratio Lower Upper

99 100

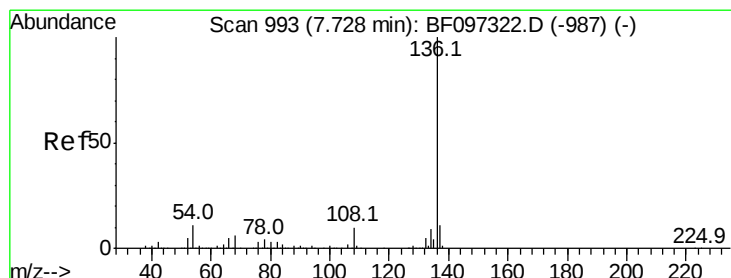
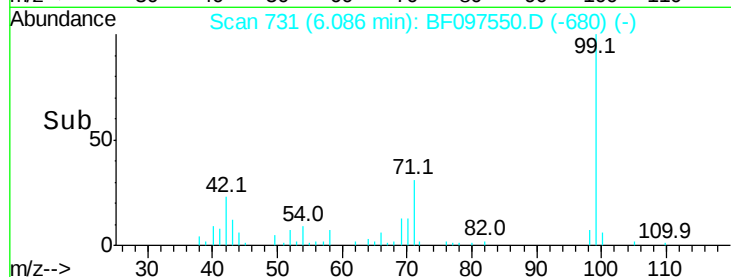
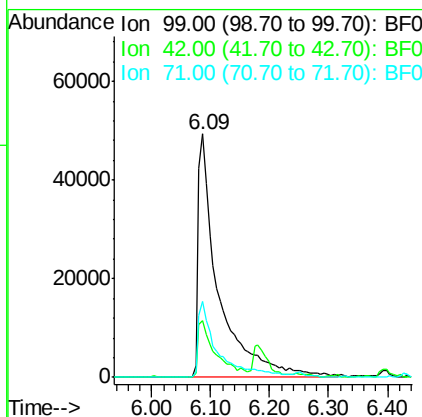
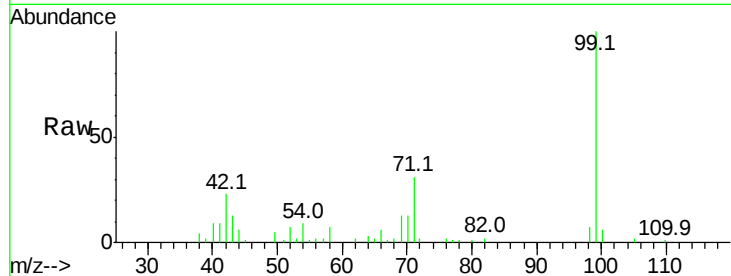
42 23.1 13.5 20.3#

71 31.1 24.5 36.7

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#21

Naphthalene-d8

Concen: 20.000 ng

RT: 7.68 min Scan# 1002

Delta R.T. -0.02 min

Lab File: BF097550.D

Acq: 10 Aug 2017 9:20

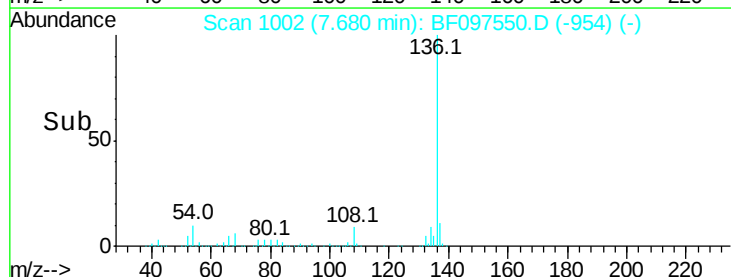
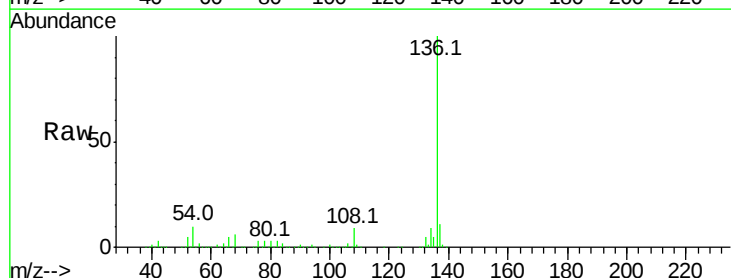
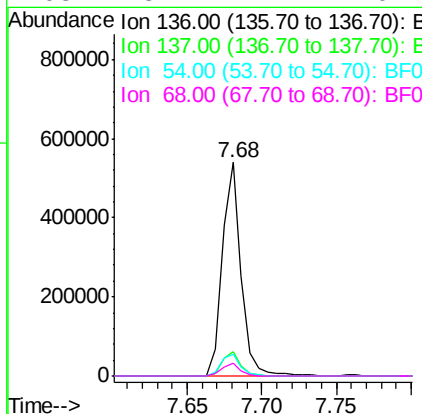
Tgt Ion: 136 Resp: 479342
Ion Ratio Lower Upper

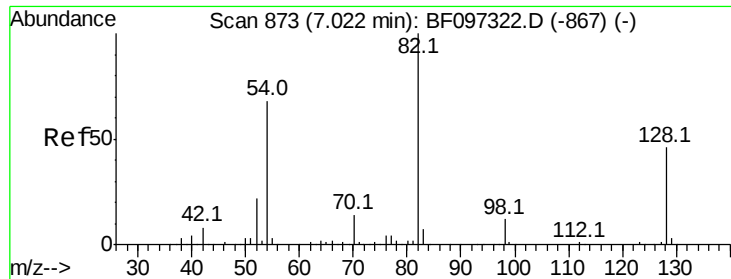
136 100

137 11.2 8.5 12.7

54 10.3 4.9 7.3#

68 5.7 4.1 6.1





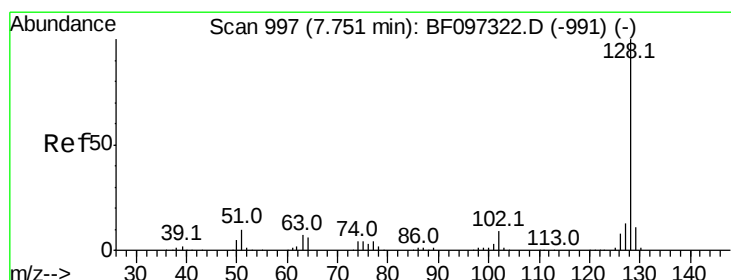
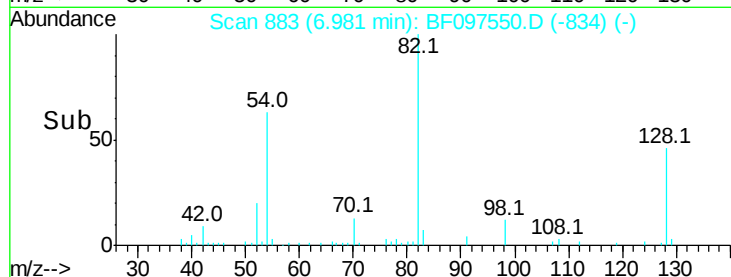
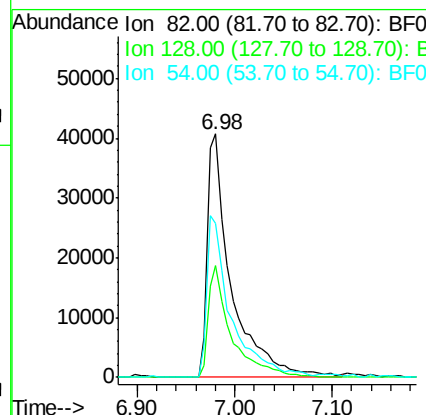
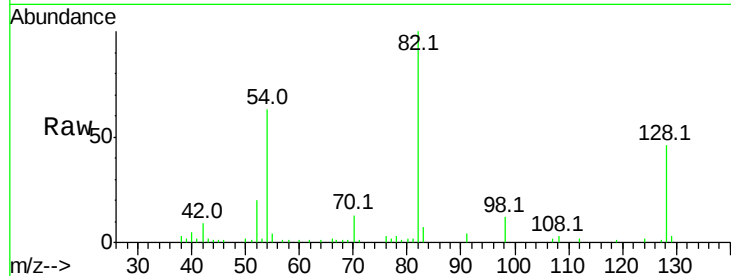
#23
 Nitrobenzene-d5
 Concen: 8.486 ng
 RT: 6.98 min Scan# 883
 Delta R.T. -0.01 min
 Lab File: BF097550.D
 Acq: 10 Aug 2017 9:20

Instrument :
 BNA_F
 ClientSampleId :
 E2-E10-WSW

Tot Ion:	82	Resp:	69336
Ion Ratio	Lower	Upper	
82	100		
128	45.8	34.0	51.0
54	63.2	42.2	63.2

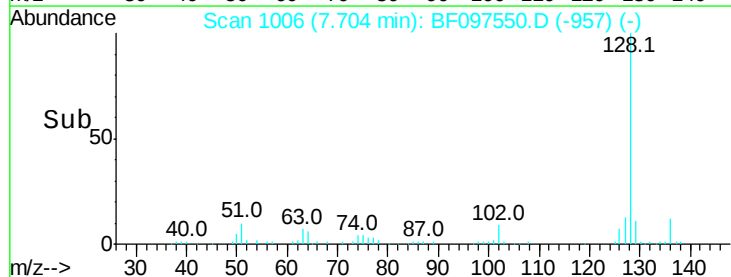
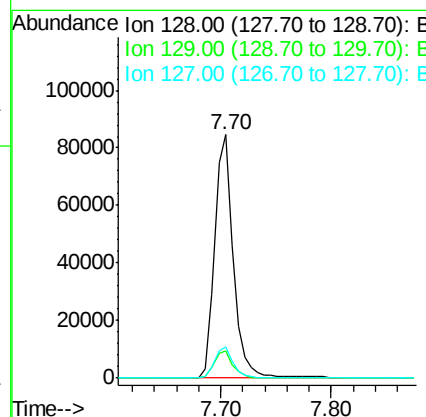
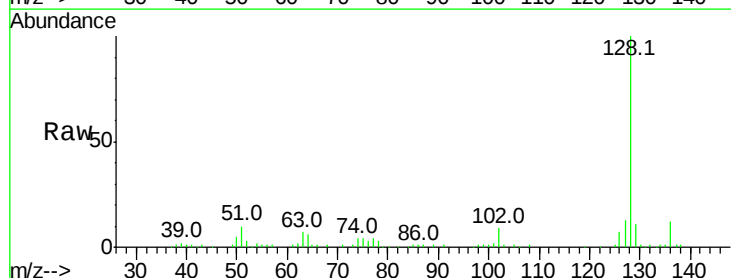
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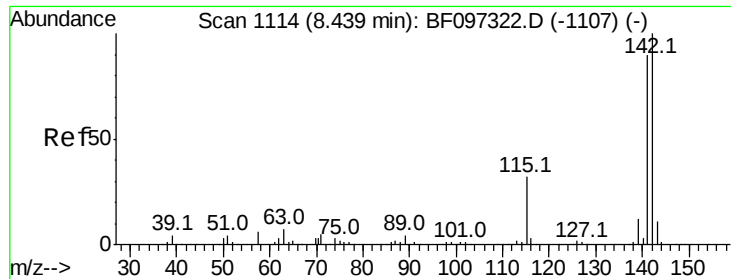
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#31
 Naphthalene
 Concen: 4.299 ng
 RT: 7.70 min Scan# 1006
 Delta R.T. -0.01 min
 Lab File: BF097550.D
 Acq: 10 Aug 2017 9:20

Tgt Ion:	128	Resp:	97131
Ion Ratio	Lower	Upper	
128	100		
129	11.1	9.0	13.6
127	12.8	10.8	16.2





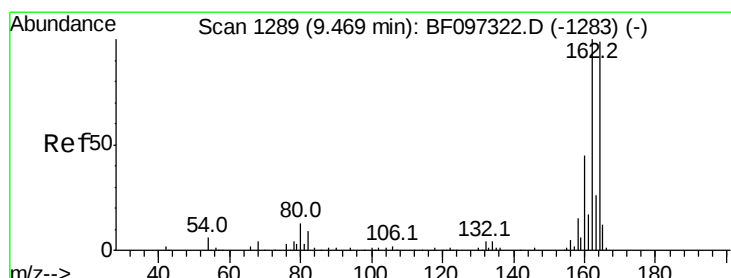
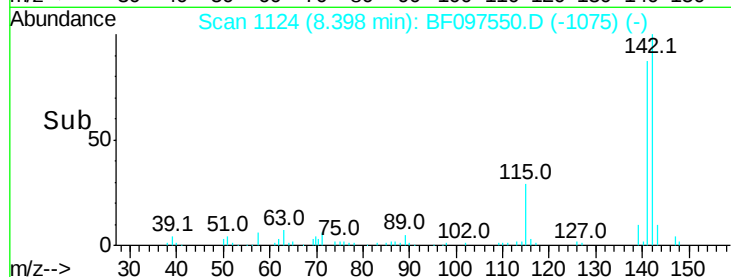
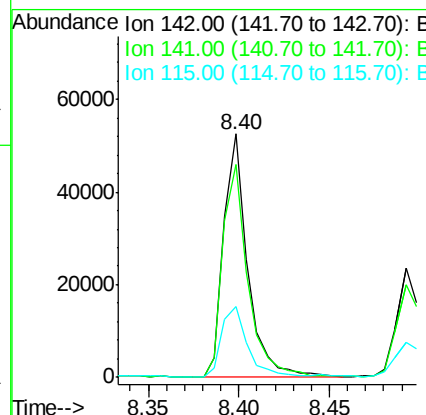
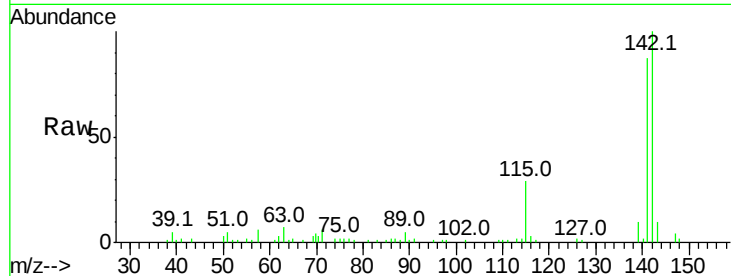
#37
 2-Methylnaphthalene
 Concen: 3.400 ng
 RT: 8.40 min Scan# 1124
 Delta R.T. -0.01 min
 Lab File: BF097550.D
 Acq: 10 Aug 2017 9:20

Instrument :
 BNA_F
 ClientSampleId :
 E2-E10-WSW

Tot Ion	Ratio	Lower	Upper
142	100		
141	87.2	71.3	106.9
115	29.1	27.1	40.7

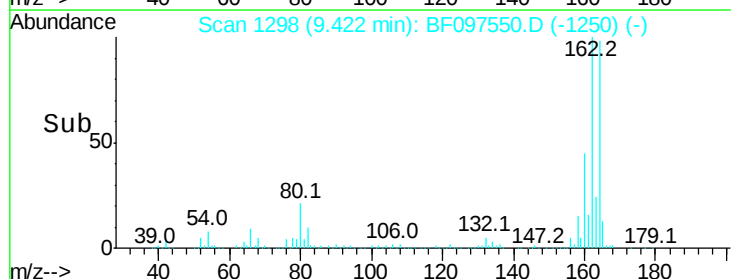
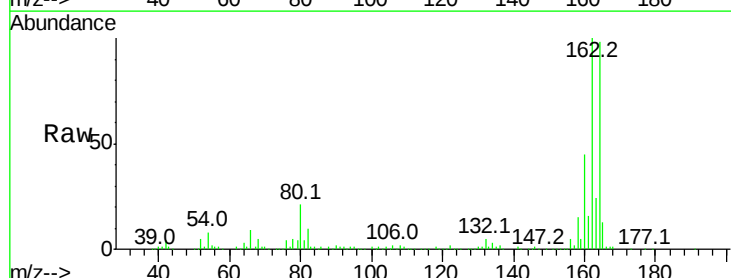
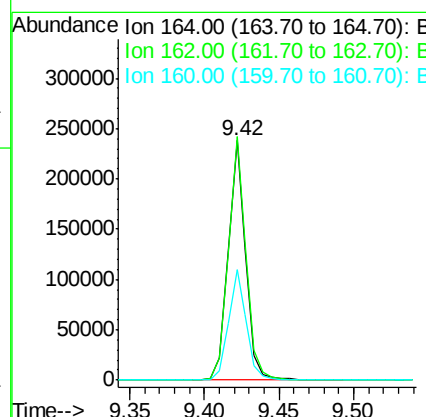
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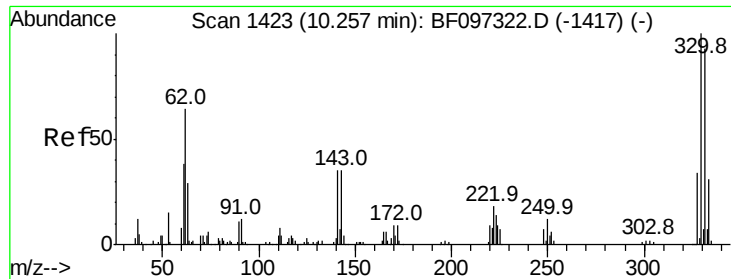
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#38
 Acenaphthene-d10
 Concen: 20.000 ng
 RT: 9.42 min Scan# 1298
 Delta R.T. -0.02 min
 Lab File: BF097550.D
 Acq: 10 Aug 2017 9:20

Tgt Ion	Ratio	Lower	Upper
164	100		
162	101.8	82.6	123.8
160	46.2	36.2	54.2





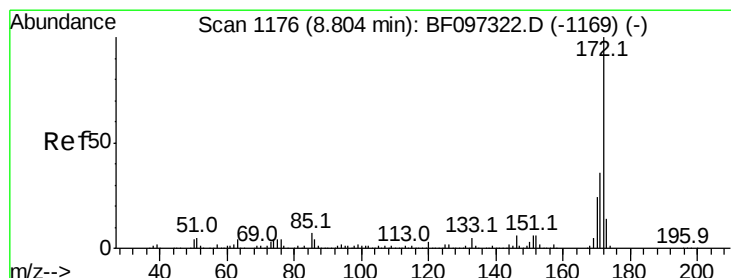
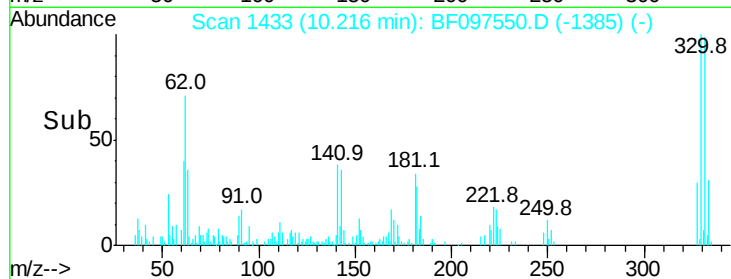
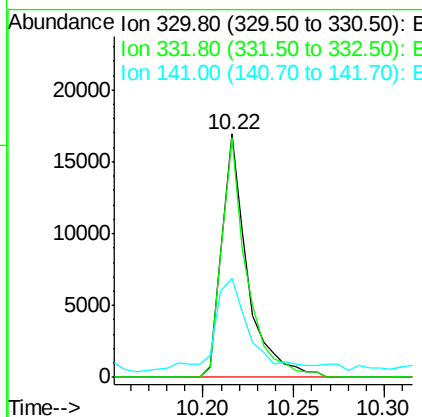
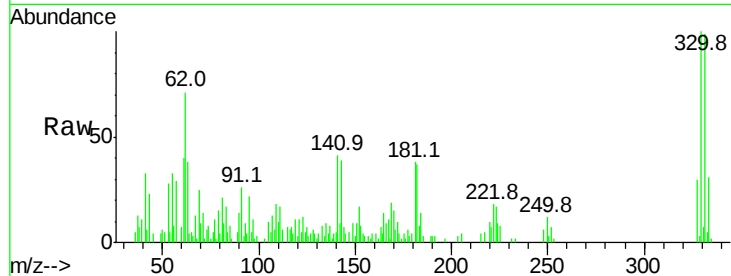
#41
 2,4,6-Tribromophenol
 Concen: 10.687 ng
 RT: 10.22 min Scan# 1433
 Delta R.T. -0.02 min
 Lab File: BF097550.D
 Acq: 10 Aug 2017 9:20

Instrument :
 BNA_F
 ClientSampleId :
 E2-E10-WSW

Tot Ion	Ratio	Resp	Lower	Upper
330	100	16703		
332	96.2	76.6	115.0	
141	53.0	31.4	47.2#	

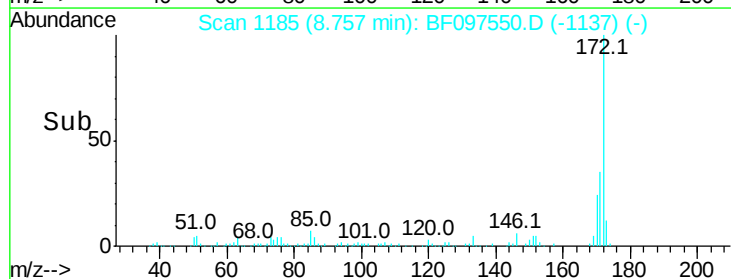
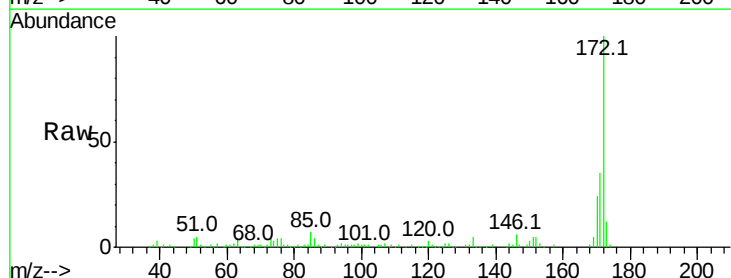
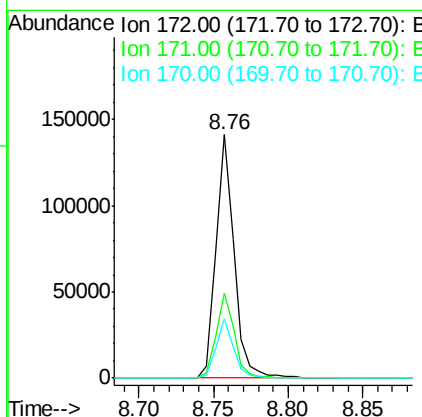
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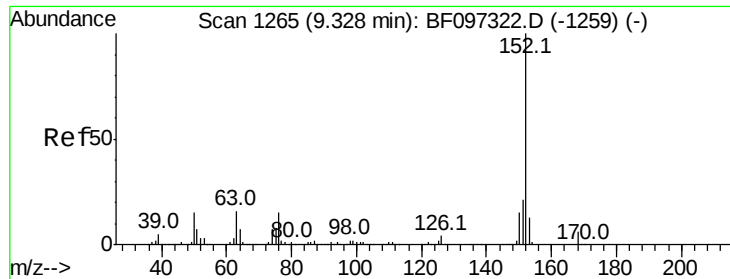
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#44
 2-Fluorobiphenyl
 Concen: 10.281 ng
 RT: 8.76 min Scan# 1185
 Delta R.T. -0.02 min
 Lab File: BF097550.D
 Acq: 10 Aug 2017 9:20

Tgt Ion	Ratio	Resp	Lower	Upper
172	100	119837		
171	35.0	29.6	44.4	
170	24.2	19.8	29.8	





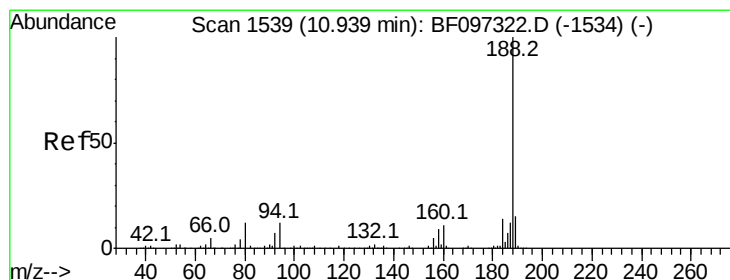
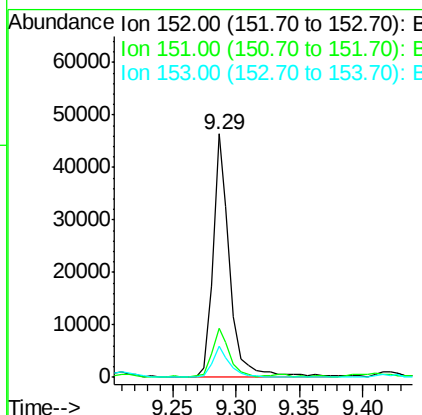
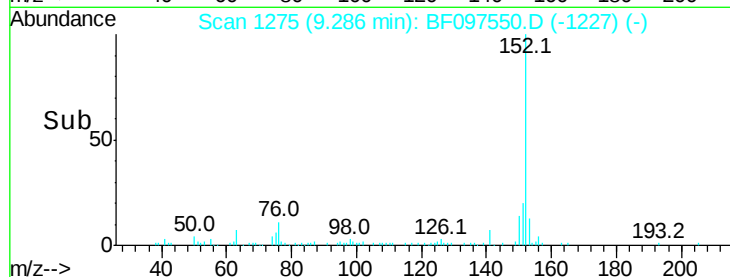
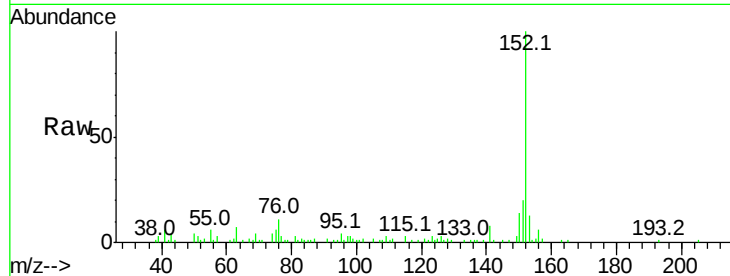
#48
Acenaphthylene
Concen: 2.275 ng
RT: 9.29 min Scan# 1275
Delta R.T. -0.02 min
Lab File: BF097550.D
Acq: 10 Aug 2017 9:20

Instrument :
BNA_F
ClientSampleId :
E2-E10-WSW

Tot Ion	Ion	Ratio	Resp	Lower	Upper
152	100		43410		
151	20.1	16.8	25.2		
153	13.0	10.8	16.2		

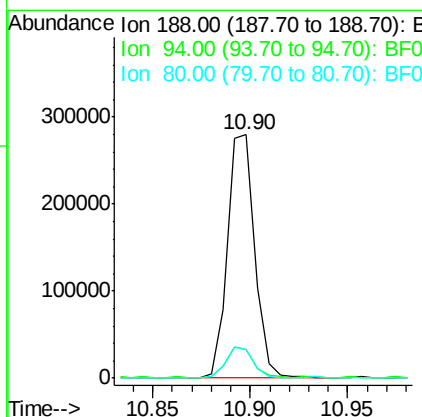
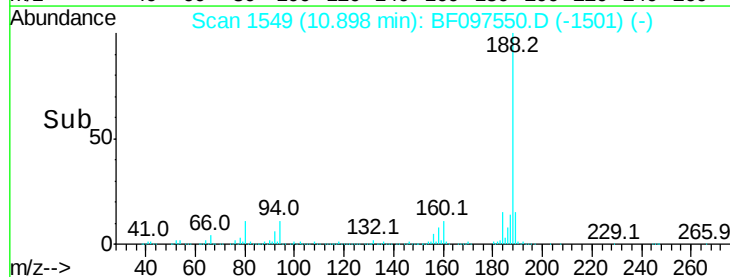
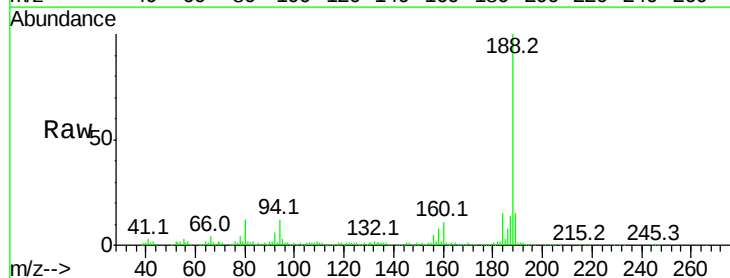
Manual Integrations
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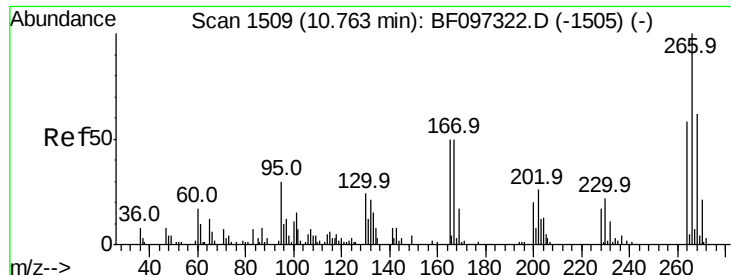
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#63
Phenanthrene-d10
Concen: 20.000 ng
RT: 10.90 min Scan# 1549
Delta R.T. -0.02 min
Lab File: BF097550.D
Acq: 10 Aug 2017 9:20

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
188	100		271608		
94	11.6	9.4	14.2		
80	11.8	10.2	15.2		





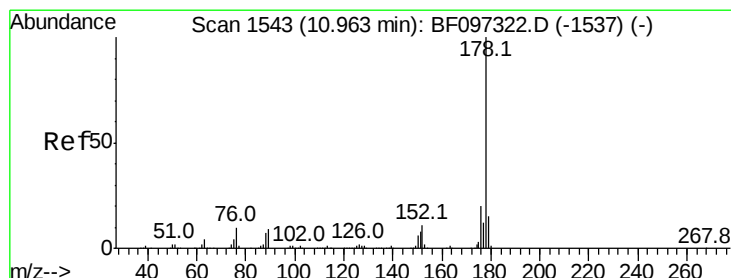
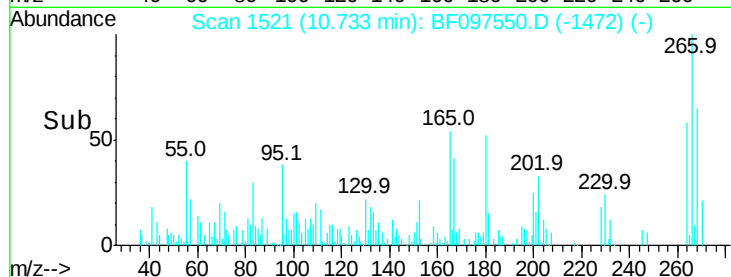
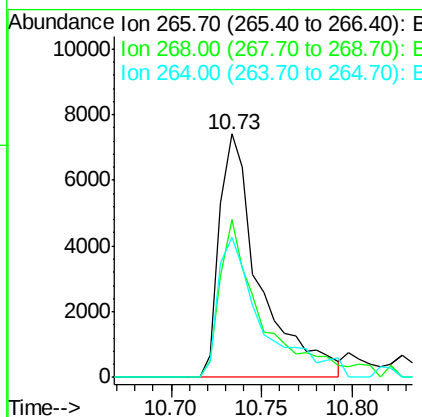
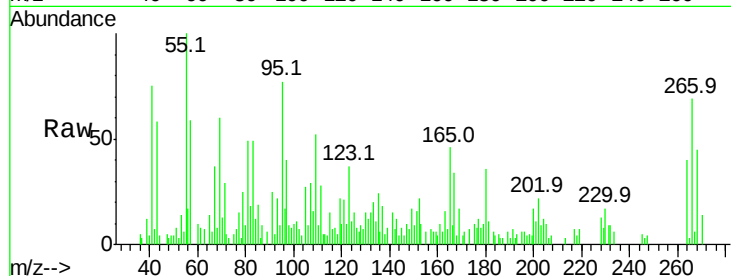
#69
 Pentachlorophenol
 Concen: 9.140 ng
 RT: 10.73 min Scan# 1521
 Delta R.T. -0.01 min
 Lab File: BF097550.D
 Acq: 10 Aug 2017 9:20

Instrument :
 BNA_F
 ClientSampleId :
 E2-E10-WSW

Tot Ion	Ratio	Resp	Lower	Upper
266	100	11495		
268	64.9		51.1	76.7
264	57.7		51.7	77.5

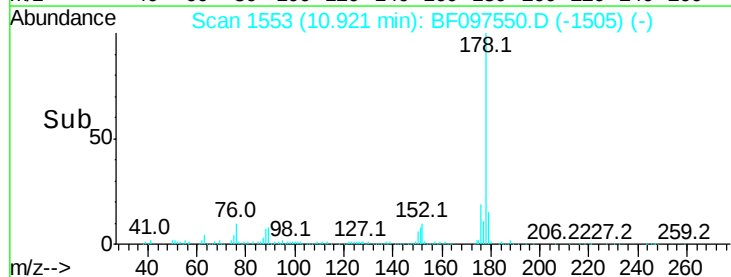
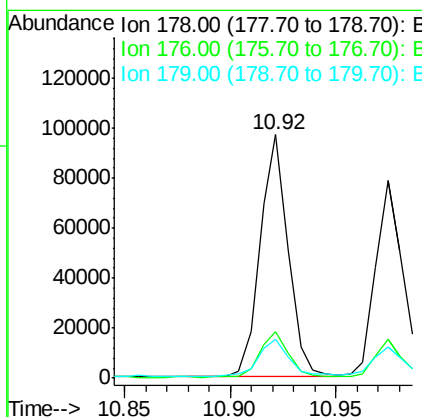
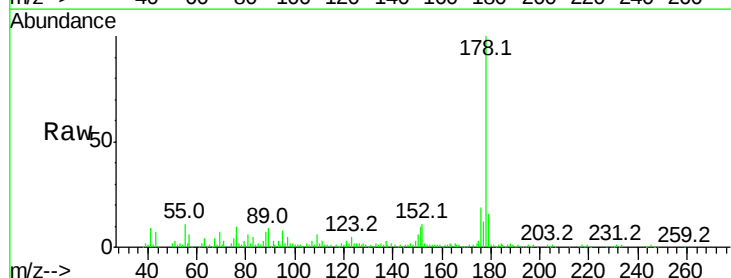
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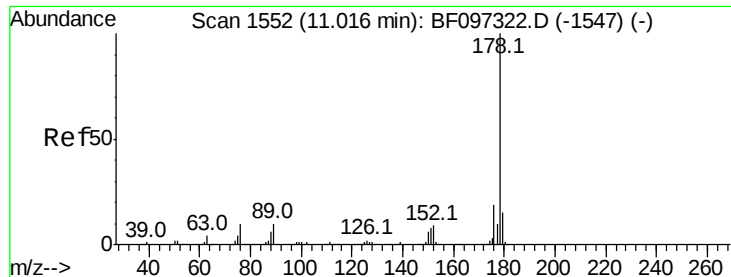
Sohil
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#70
 Phenanthrene
 Concen: 6.143 ng
 RT: 10.92 min Scan# 1553
 Delta R.T. -0.02 min
 Lab File: BF097550.D
 Acq: 10 Aug 2017 9:20

Tgt Ion	Ratio	Resp	Lower	Upper
178	100	89395		
176	19.2		16.2	24.4
179	16.1		12.6	19.0





#71

Anthracene

Concen: 4.749 ng

RT: 10.97 min Scan# 1562

Delta R.T. -0.02 min

Lab File: BF097550.D

Acq: 10 Aug 2017 9:20

Instrument :

BNA_F

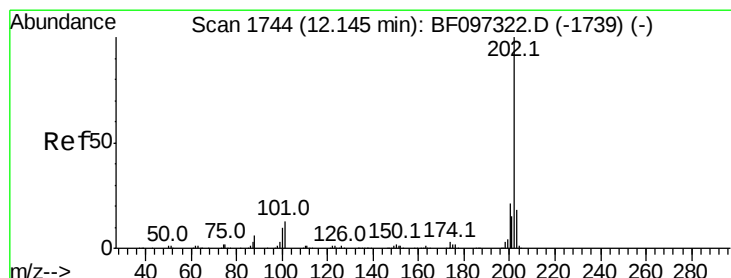
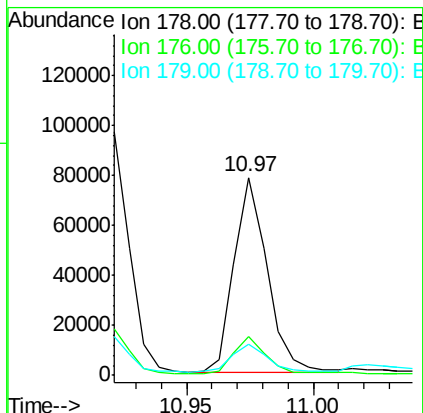
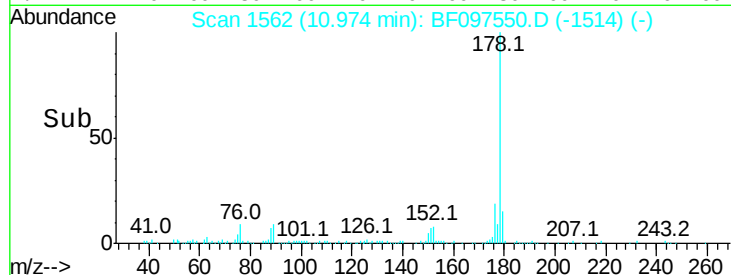
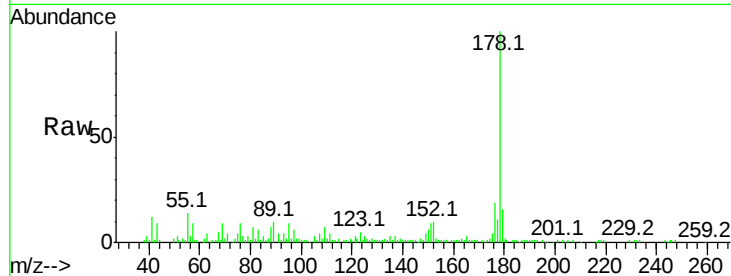
ClientSampleId :

E2-E10-WSW

Tot Ion:	178	Resp:	70788
Ion Ratio	Lower	Upper	
178	100		
176	19.4	15.8	23.8
179	15.7	12.7	19.1

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#74

Fluoranthene

Concen: 8.977 ng

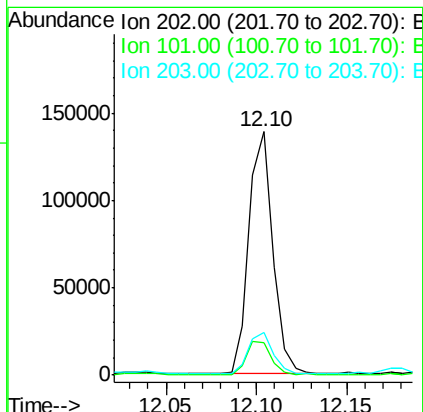
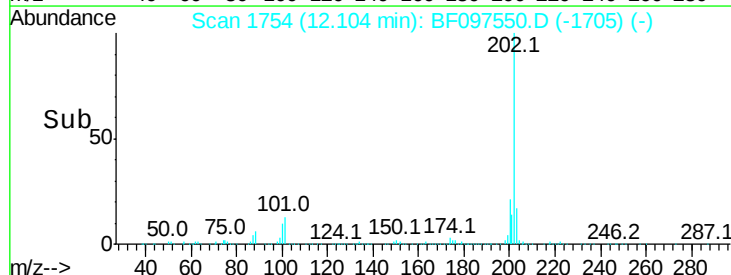
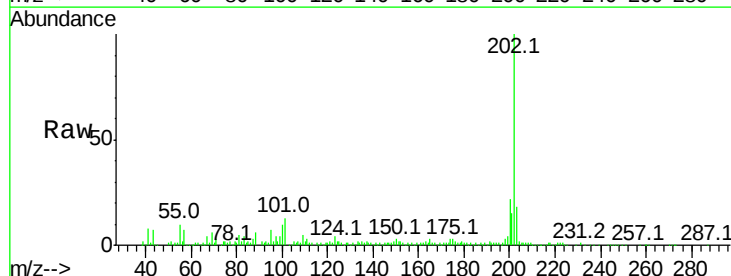
RT: 12.10 min Scan# 1754

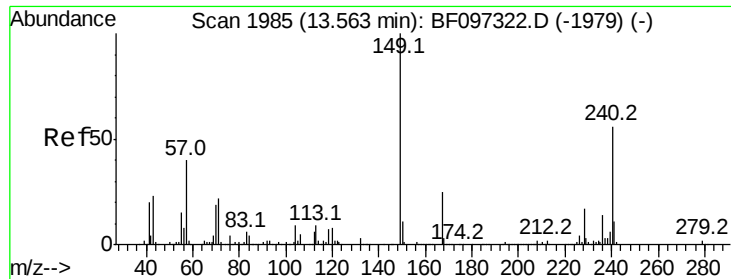
Delta R.T. -0.01 min

Lab File: BF097550.D

Acq: 10 Aug 2017 9:20

Tgt Ion:	202	Resp:	127981
Ion Ratio	Lower	Upper	
202	100		
101	13.5	0.0	33.2
203	17.8	0.0	38.1





#75

Chrysene-d12

Concen: 20.000 ng

RT: 13.52 min Scan# 1995

Delta R.T. -0.02 min

Lab File: BF097550.D

Acq: 10 Aug 2017 9:20

Instrument :

BNA_F

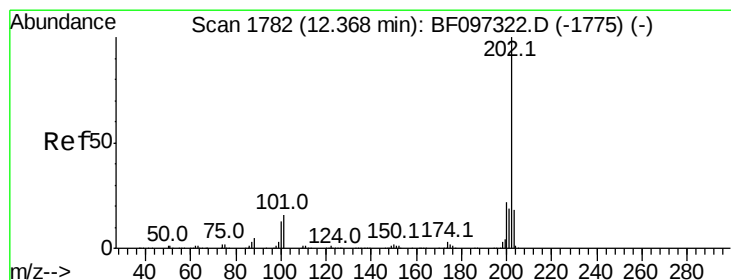
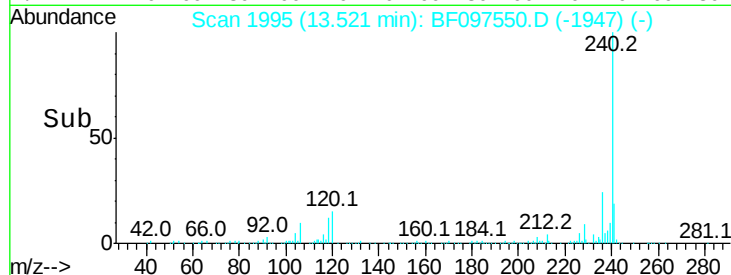
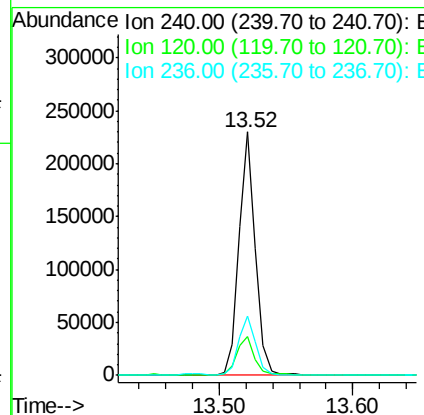
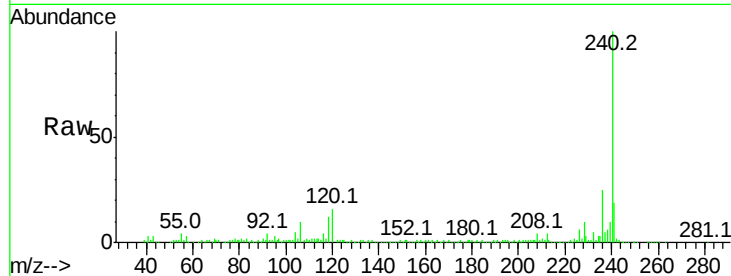
ClientSampleId :

E2-E10-WSW

Tot Ion	Ratio	Resp	Lower	Upper
240	100	197033		
120	15.9	5.8	8.8#	
236	24.6	20.5	30.7	

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#77

Pyrene

Concen: 8.252 ng

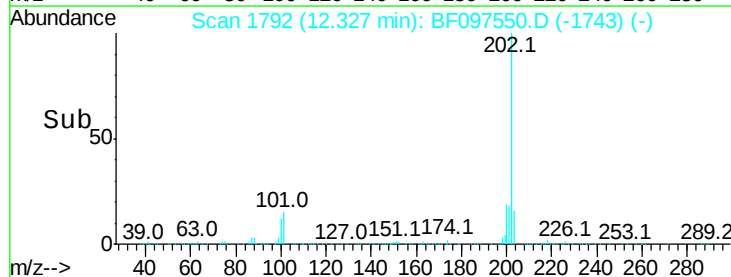
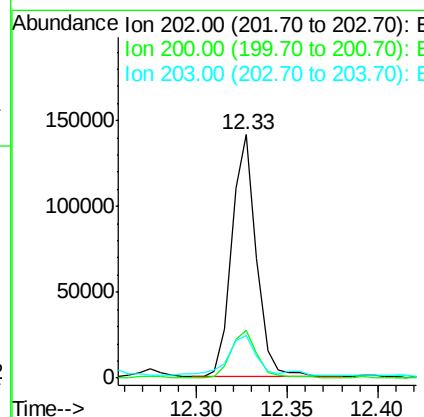
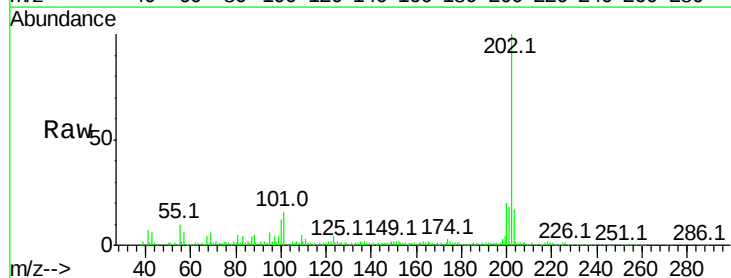
RT: 12.33 min Scan# 1792

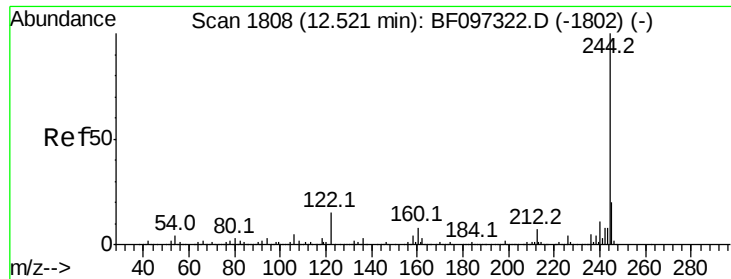
Delta R.T. -0.01 min

Lab File: BF097550.D

Acq: 10 Aug 2017 9:20

Tgt Ion	Ratio	Resp	Lower	Upper
202	100	133115		
200	19.6	17.6	26.4	
203	17.4	14.4	21.6	





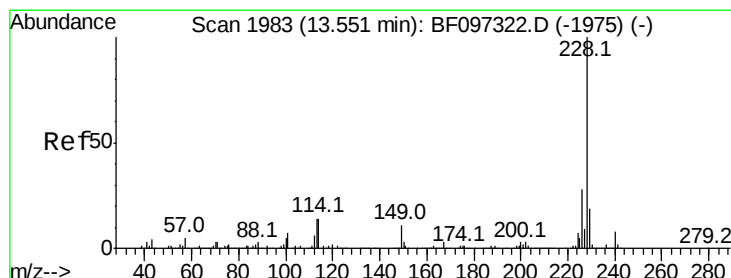
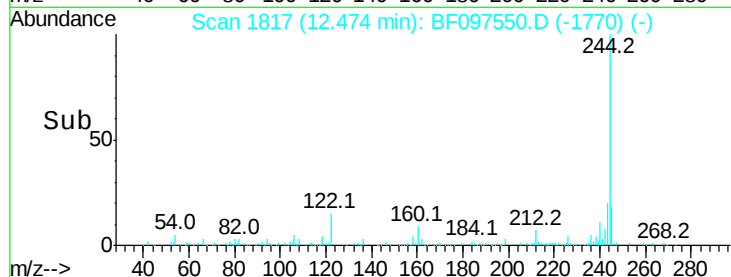
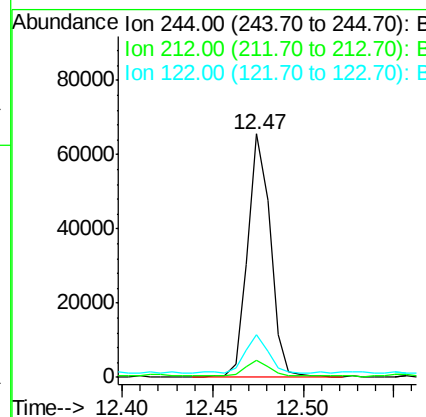
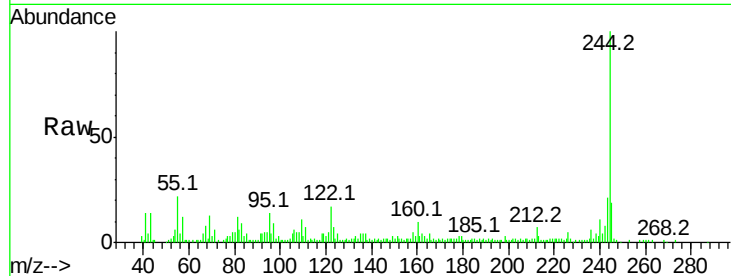
#78
 Terphenyl-d14
 Concen: 5.962 ng
 RT: 12.47 min Scan# 1817
 Delta R.T. -0.02 min
 Lab File: BF097550.D
 Acq: 10 Aug 2017 9:20

Instrument :
 BNA_F
 ClientSampleId :
 E2-E10-WSW

Tot Ion	Ratio	Resp Lower	Upper
244	100		
212	7.2	6.0	9.0
122	17.3	10.3	15.5

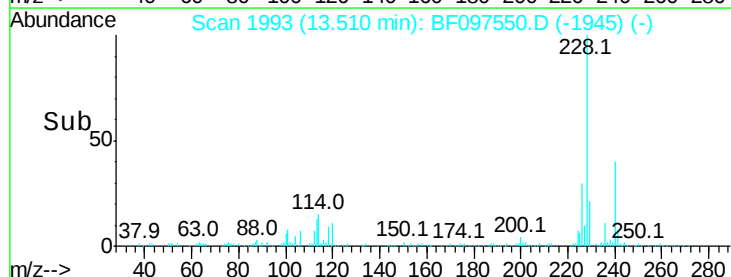
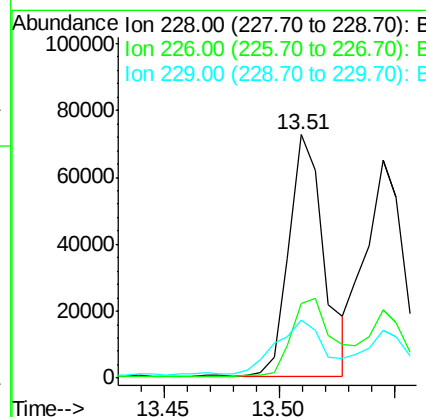
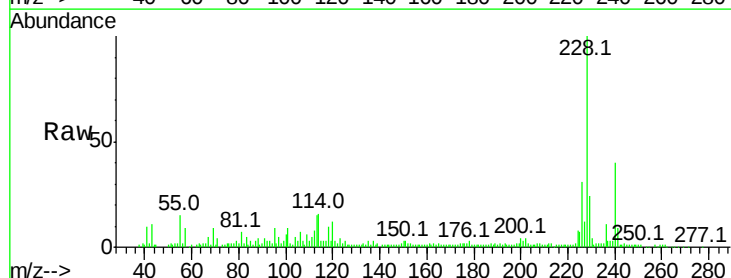
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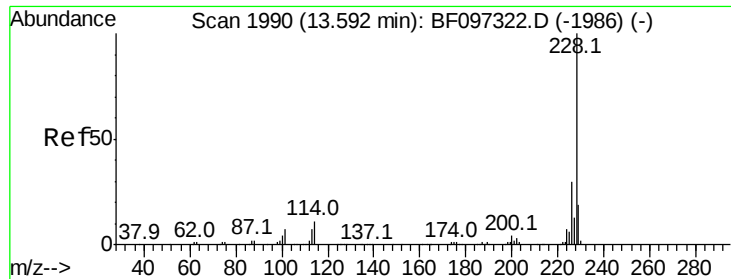
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#80
 Benzo(a)anthracene
 Concen: 5.983 ng
 RT: 13.51 min Scan# 1993
 Delta R.T. -0.02 min
 Lab File: BF097550.D
 Acq: 10 Aug 2017 9:20

Tgt Ion	Ratio	Resp Lower	Upper
228	100		
226	30.7	22.6	33.8
229	23.7	16.3	24.5





#82

Chrysene

Concen: 5.932 ng

RT: 13.54 min Scan# 1999

Delta R.T. -0.02 min

Lab File: BF097550.D

Acq: 10 Aug 2017 9:20

Instrument :

BNA_F

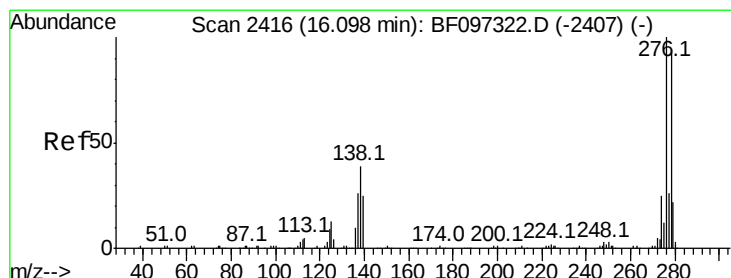
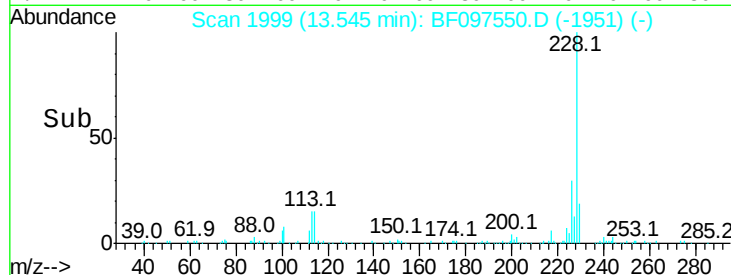
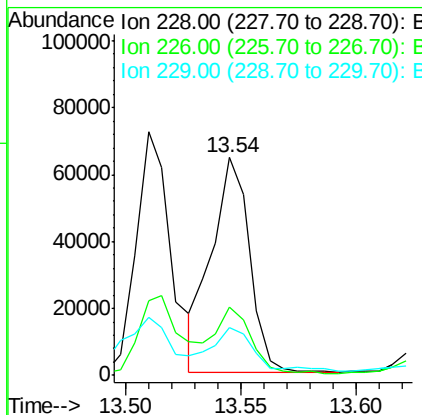
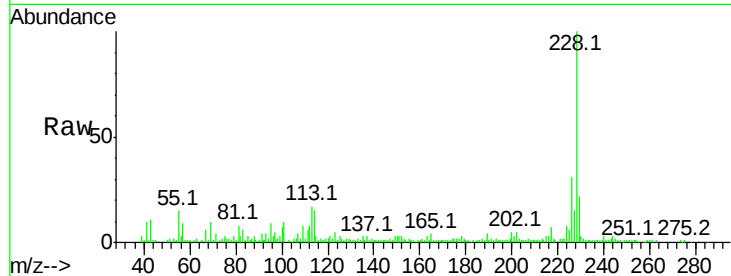
ClientSampleId :

E2-E10-WSW

Tot Ion:	228	Resp:	73841
Ion Ratio	Lower	Upper	
228	100		
226	31.5	24.9	37.3
229	22.0	15.8	23.6

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#85

Indeno(1,2,3-cd)pyrene

Concen: 6.831 ng

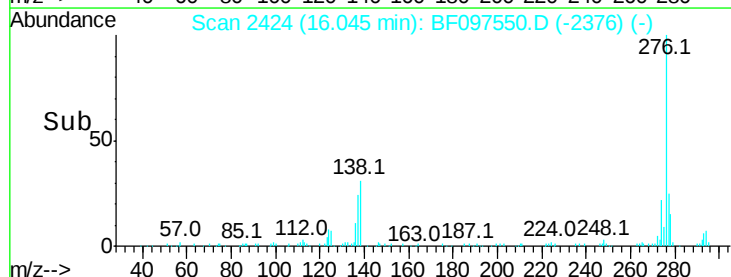
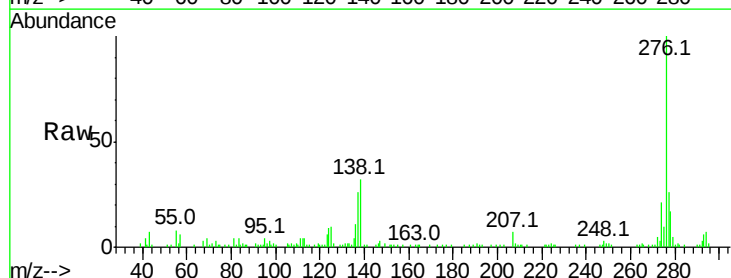
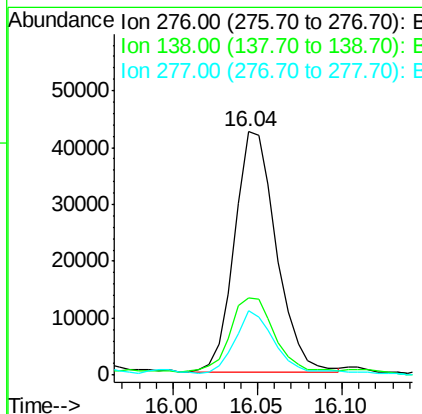
RT: 16.04 min Scan# 2424

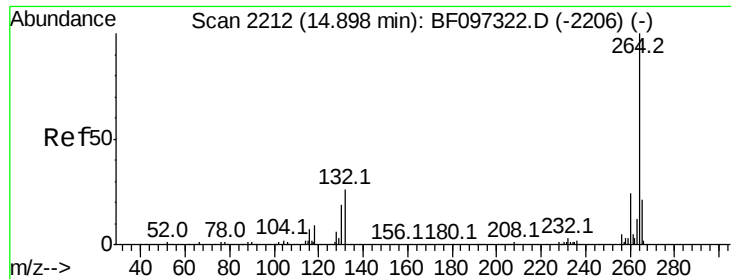
Delta R.T. -0.02 min

Lab File: BF097550.D

Acq: 10 Aug 2017 9:20

Tgt Ion:	276	Resp:	72921
Ion Ratio	Lower	Upper	
276	100		
138	32.3	27.8	41.6
277	27.6	20.2	30.4





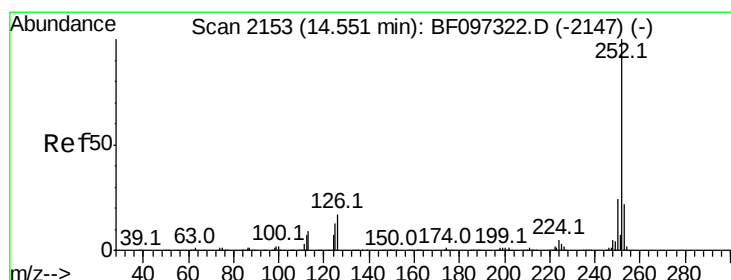
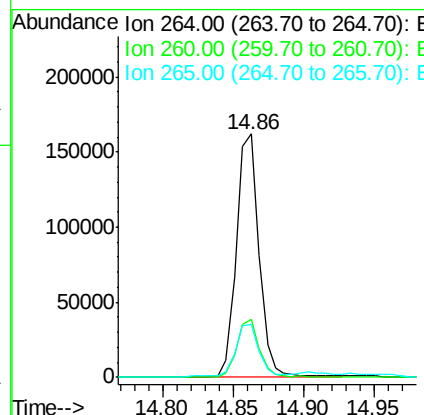
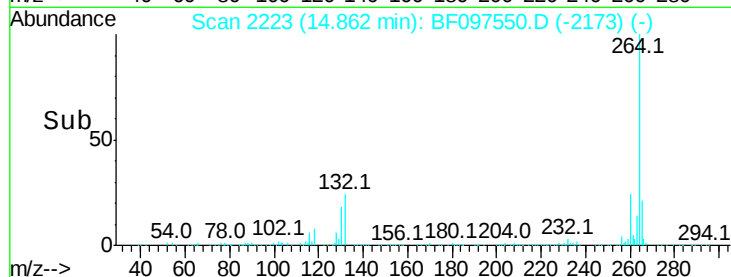
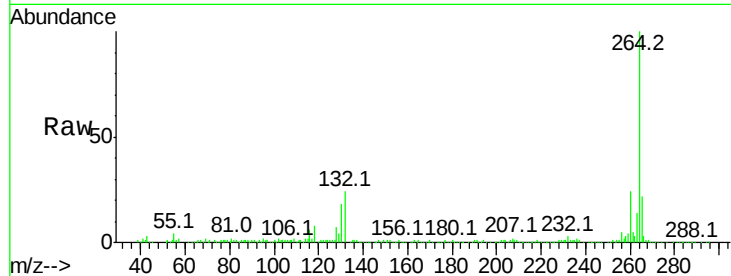
#86
Pervlene-d12
Concen: 20.000 ng
RT: 14.86 min Scan# 2223
Delta R.T. -0.01 min
Lab File: BF097550.D
Acq: 10 Aug 2017 9:20

Instrument :
BNA_F
ClientSampleId :
E2-E10-WSW

Tot Ion	Ratio	Lower	Upper
264	100		
260	23.6	19.5	29.3
265	21.7	17.2	25.8

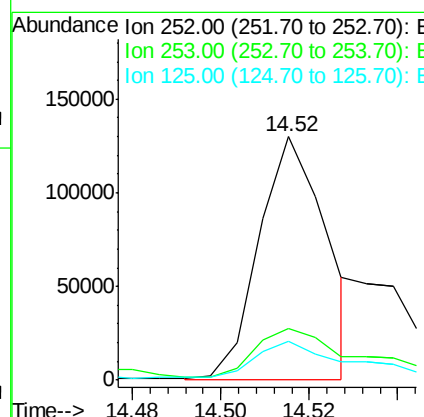
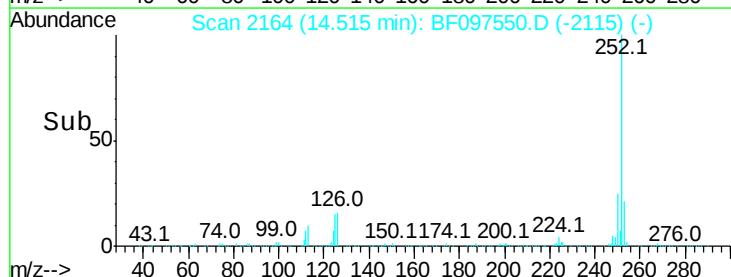
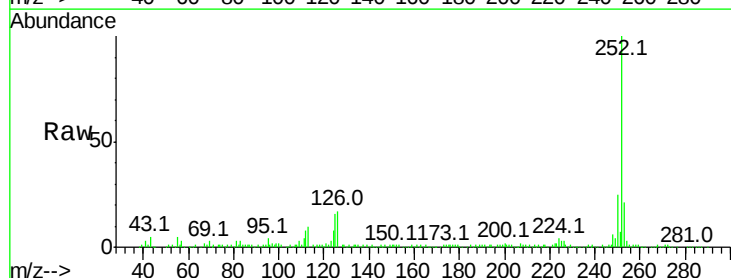
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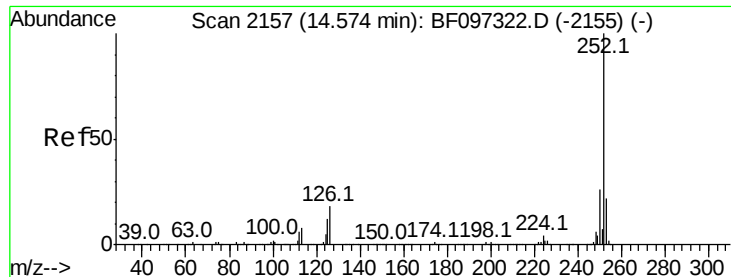
Sohil
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#87
Benzo(b)fluoranthene
Concen: 12.601 ng m
RT: 14.52 min Scan# 2164
Delta R.T. -0.01 min
Lab File: BF097550.D
Acq: 10 Aug 2017 9:20

Tgt Ion	Ratio	Lower	Upper
252	100		
253	21.3	18.1	27.1
125	15.7	9.8	14.8#





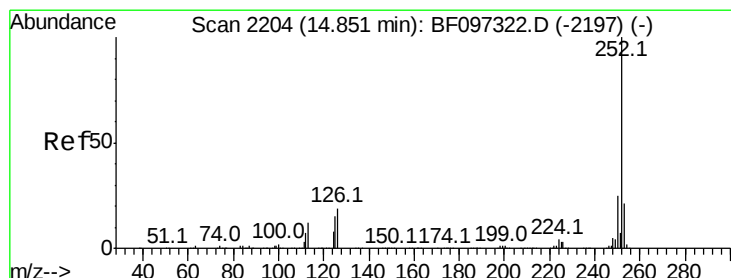
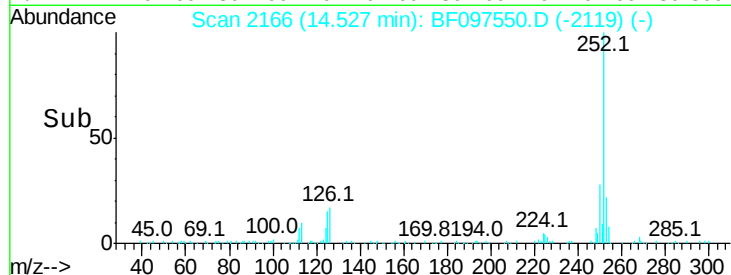
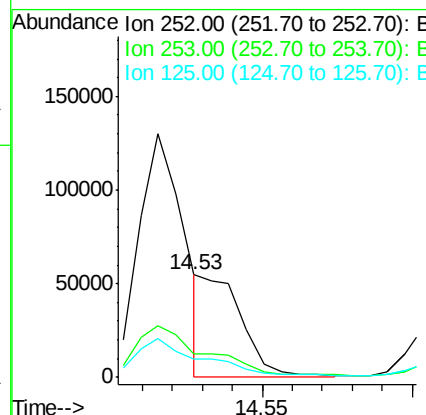
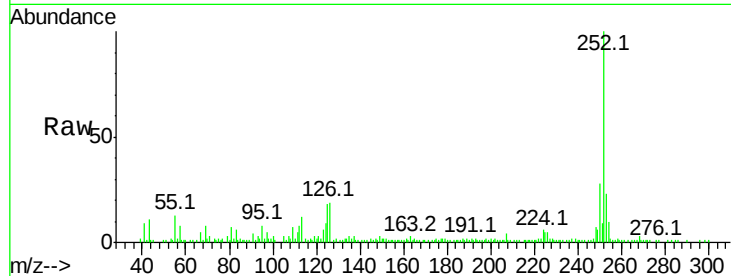
#88
Benzo(k)fluoranthene
Concen: 4.769 ng m
RT: 14.53 min Scan# 2166
Delta R.T. -0.02 min
Lab File: BF097550.D
Acq: 10 Aug 2017 9:20

Instrument :
BNA_F
ClientSampleId :
E2-E10-WSW

Tot Ion	Ratio	Lower	Upper
252	100		
253	23.3	18.4	27.6
125	17.7	13.1	19.7

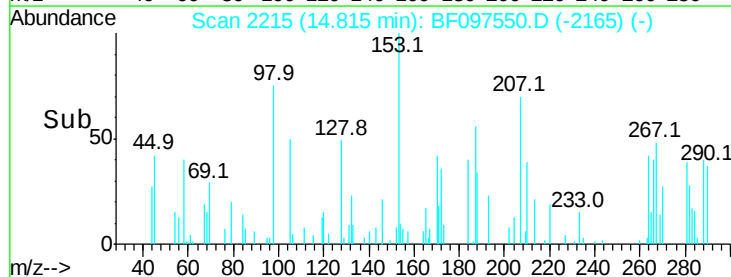
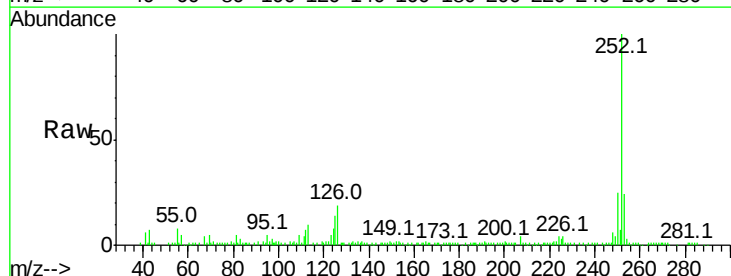
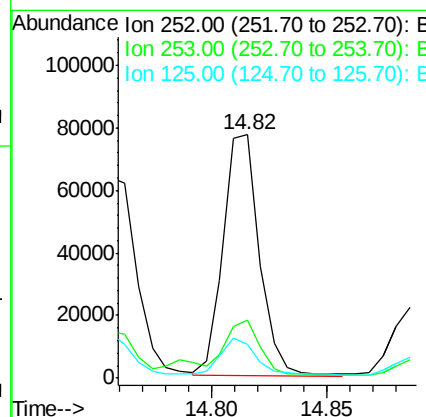
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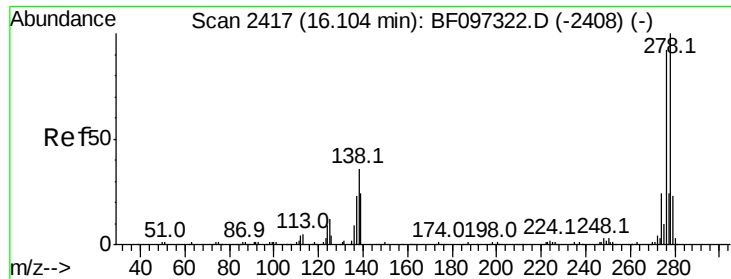
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#89
Benzo(a)pyrene
Concen: 8.428 ng
RT: 14.82 min Scan# 2215
Delta R.T. -0.01 min
Lab File: BF097550.D
Acq: 10 Aug 2017 9:20

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.7	17.5	26.3
125	13.6	11.0	16.4





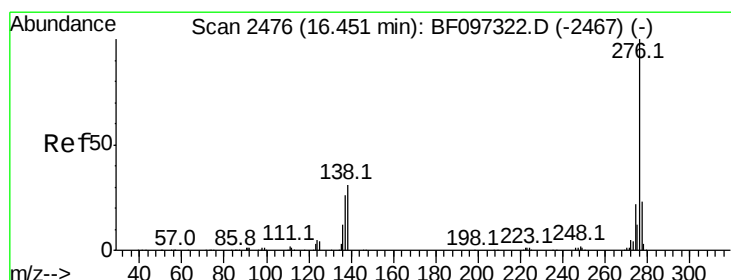
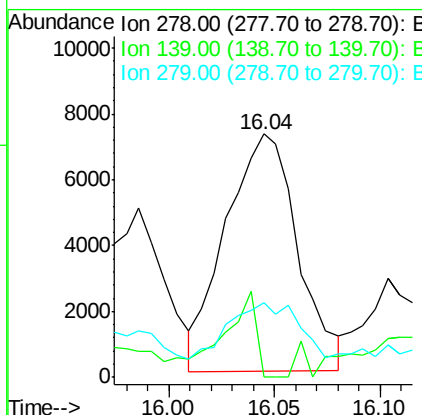
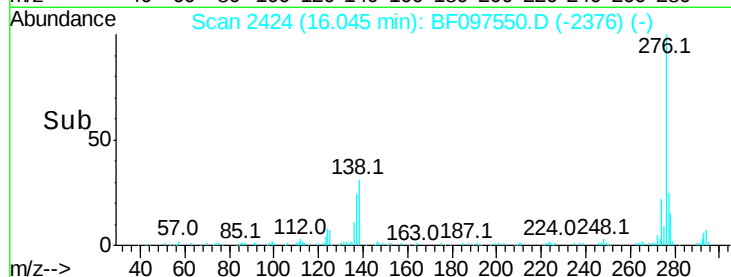
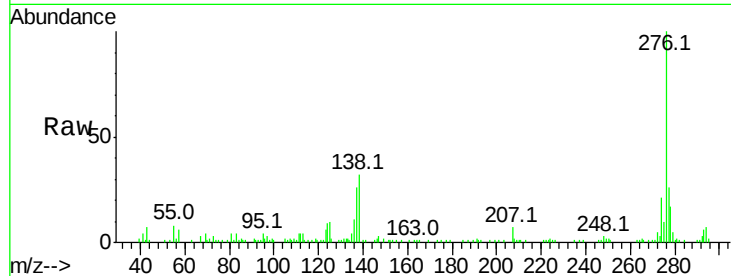
#90
Dibenzo(a,h)anthracene
Concen: 2.080 ng
RT: 16.04 min Scan# 2424
Delta R.T. -0.02 min
Lab File: BF097550.D
Acq: 10 Aug 2017 9:20

Instrument :
BNA_F
ClientSampled :
E2-E10-WSW

Tot Ion	Ratio	Lower	Upper
278	100		
139	0.0	16.6	24.8#
279	30.4	19.3	28.9#

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#91
Benzo(g,h,i)perylene
Concen: 7.627 ng
RT: 16.40 min Scan# 2484
Delta R.T. -0.01 min
Lab File: BF097550.D
Acq: 10 Aug 2017 9:20

Tgt Ion	Ratio	Lower	Upper
276	100		
277	24.5	18.6	28.0
138	35.6	25.4	38.0

