

Data Path : Z:\HPCHEM1\BNA F\DATA\BF080917\
 Data File : BF097545.D
 Acq On : 10 Aug 2017 4:58
 Operator : SJ/JU
 Sample : I4677-01 10X
 Misc :
 ALS Vial : 24 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 E2-D10-ESW

Manual Integrations
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 8/10/2017 6:08:04 PM

Quant Time: Aug 10 08:07:56 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	110045	20.00	ng	-0.01
21) Naphthalene-d8	7.68	136	442526	20.00	ng	-0.02
38) Acenaphthene-d10	9.42	164	192992	20.00	ng	-0.02
63) Phenanthrene-d10	10.89	188	276023	20.00	ng	-0.02
75) Chrysene-d12	13.52	240	180548	20.00	ng	-0.02
86) Perylene-d12	14.86	264	186374	20.00	ng	-0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.01	112	62124	8.51	ng	0.00
7) Phenol-d6	6.09	99	99761	11.97	ng	0.00
23) Nitrobenzene-d5	6.98	82	59712	7.92	ng	-0.01
41) 2,4,6-Tribromophenol	10.22	330	15491	10.16	ng	-0.02
44) 2-Fluorobiphenyl	8.76	172	121209	10.66	ng	-0.02
78) Terphenyl-d14	12.47	244	64264	7.26	ng	-0.02
Target Compounds						
70) Phenanthrene	10.92	178	65908	4.456	ng	97
74) Fluoranthene	12.10	202	130142	8.982	ng	96
77) Pyrene	12.33	202	100703	6.813	ng	99
80) Benzo(a)anthracene	13.51	228	56326	4.822	ng	94
82) Chrysene	13.54	228	61024	5.350	ng	96
85) Indeno(1,2,3-cd)pyrene	16.05	276	39372	4.025	ng	99
87) Benzo(b)fluoranthene	14.52	252	105987m	9.460	ng	
88) Benzo(k)fluoranthene	14.53	252	38645m	3.620	ng	
89) Benzo(a)pyrene	14.81	252	62154	6.062	ng	97
91) Benzo(g,h,i)perylene	16.40	276	34046	3.861	ng	91

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

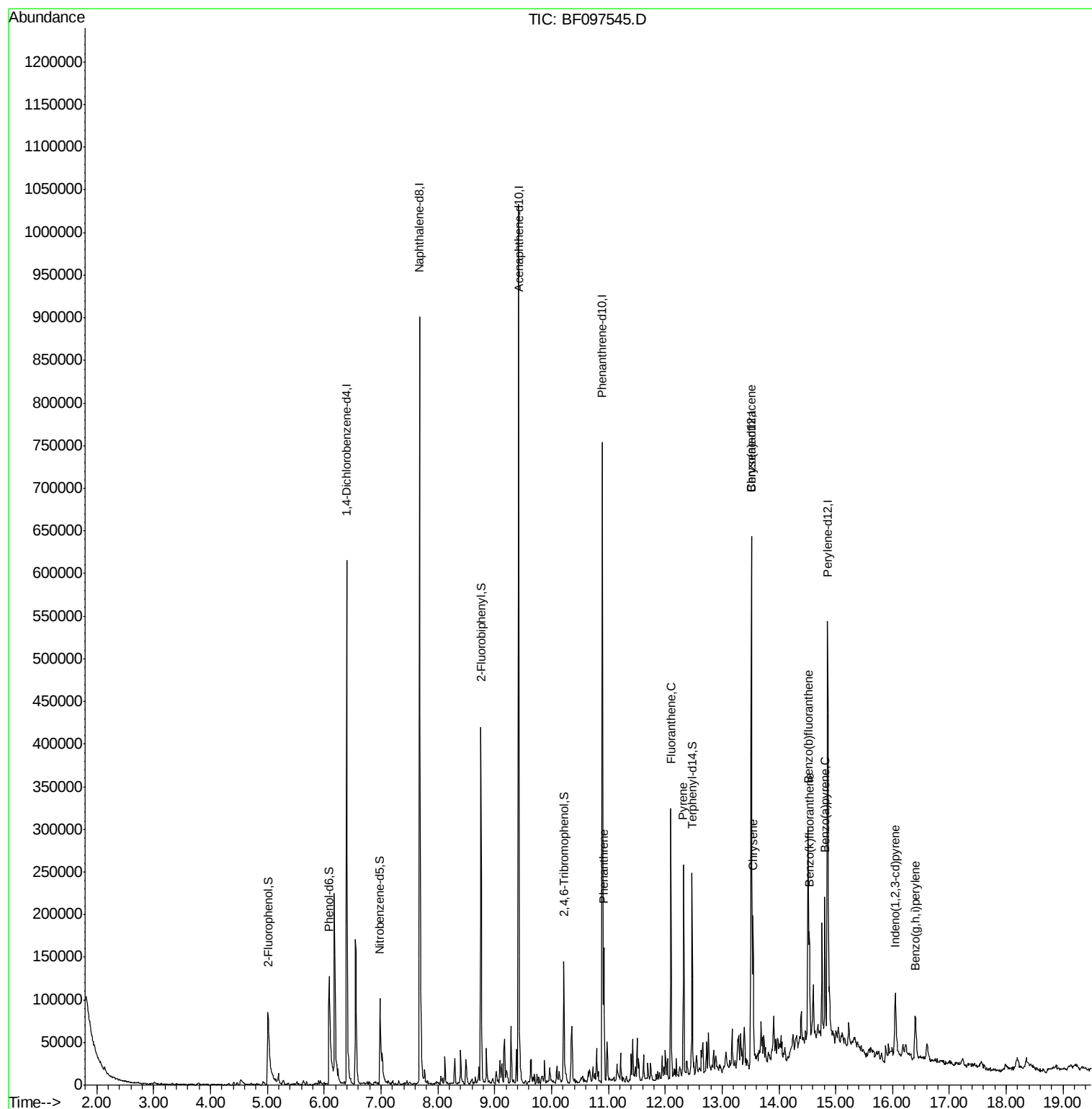
Data Path : Z:\HPCHEM1\BNA F\DATA\BF080917\
Data File : BF097545.D
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Operator : SJ/JU
Sample : I4677-01 10X
Misc :
ALS Vial : 24 Sample Multiplier: 1

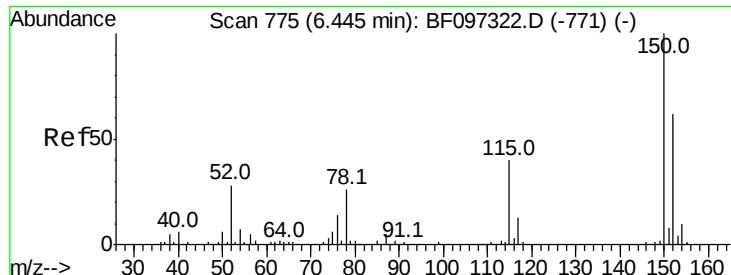
Instrument :
BNA_F
ClientSampleId :
E2-D10-ESW

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#1

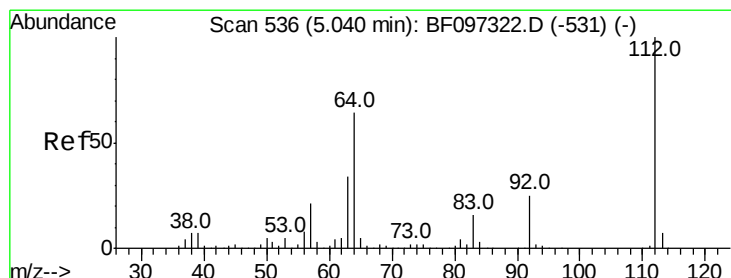
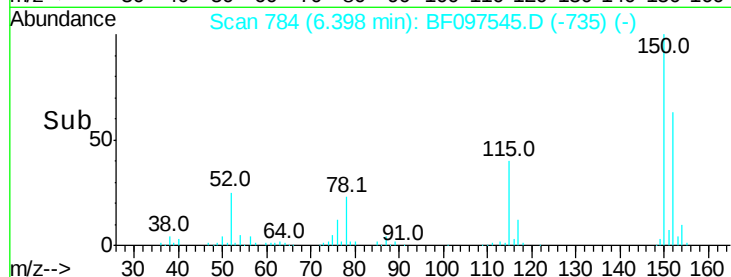
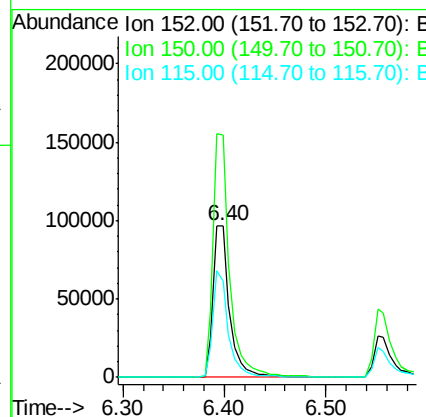
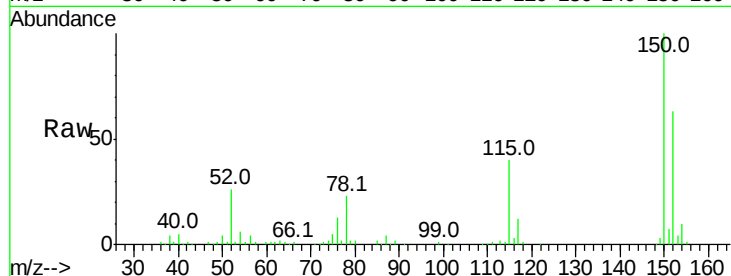
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.40 min Scan# 784
Delta R.T. -0.01 min
Lab File: BF097545.D
Acq: 10 Aug 2017 4:58

Instrument :
BNA_F
ClientSampleId :
E2-D10-ESW

Tot Ion	Ratio	Lower	Upper
152	100		
150	159.9	126.2	189.2
115	63.2	52.2	78.2

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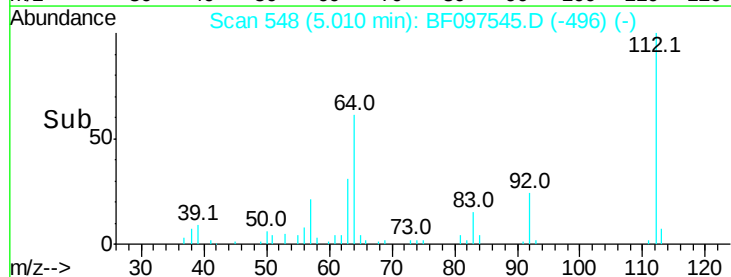
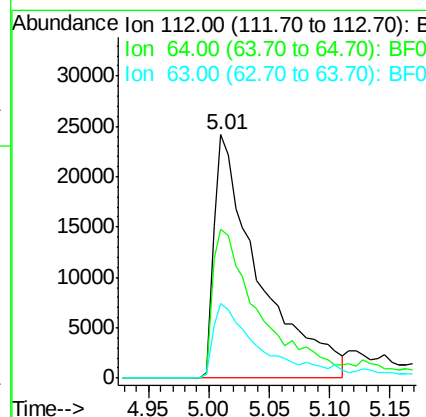
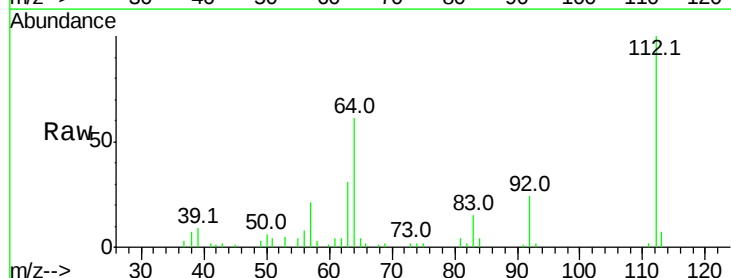
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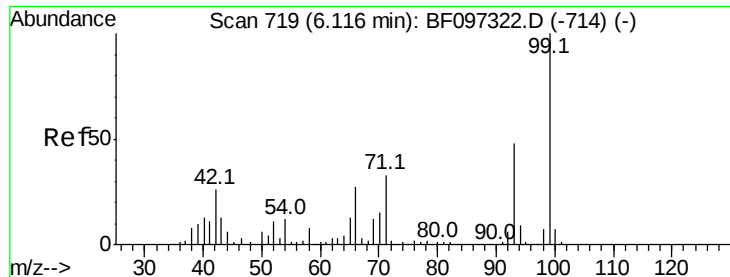


#5

2-Fluorophenol
Concen: 8.510 ng
RT: 5.01 min Scan# 548
Delta R.T. 0.01 min
Lab File: BF097545.D
Acq: 10 Aug 2017 4:58

Tgt Ion	Ratio	Lower	Upper
112	100		
64	61.1	46.0	69.0
63	30.5	23.4	35.0





#7

Phenol-d6

Concen: 11.971 ng

RT: 6.09 min Scan# 731

Delta R.T. 0.00 min

Lab File: BF097545.D

Acq: 10 Aug 2017 4:58

Instrument :

BNA_F

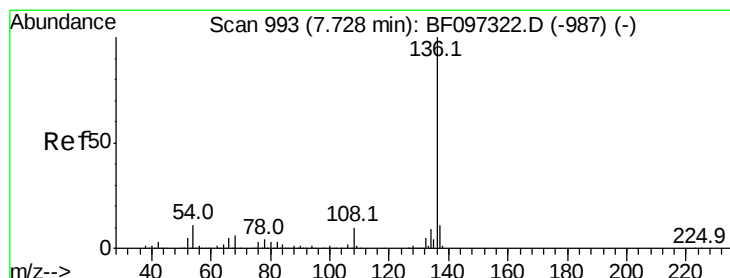
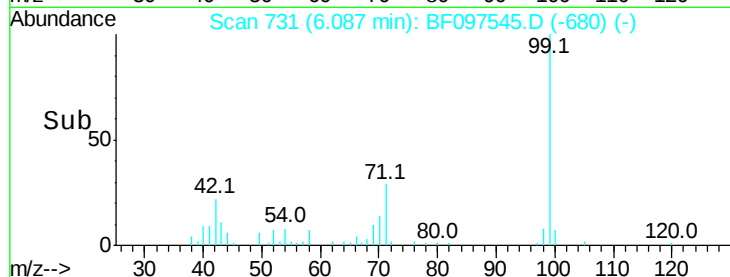
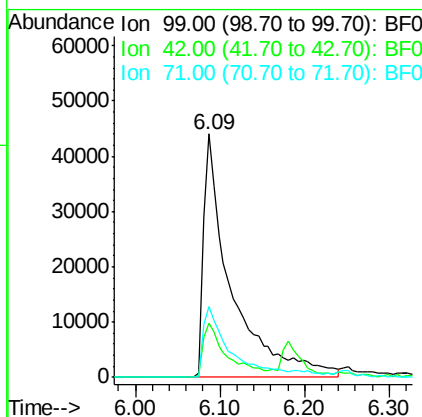
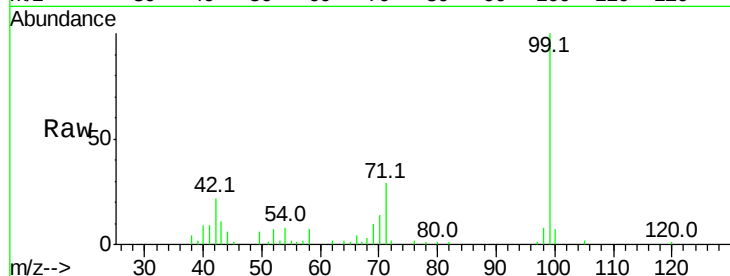
ClientSampleId :

E2-D10-ESW

Tot Ion:	99	Resp:	99761
Ion Ratio	Lower	Upper	
99	100		
42	22.4	13.5	20.3#
71	28.8	24.5	36.7

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#21

Naphthalene-d8

Concen: 20.000 ng

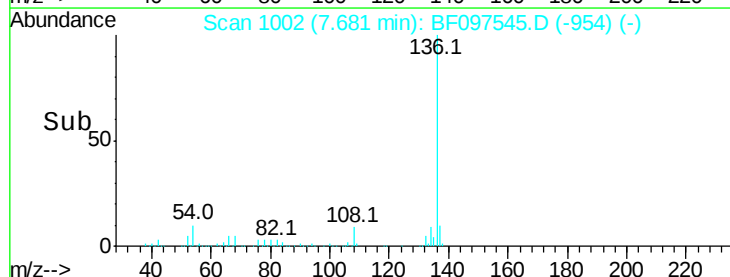
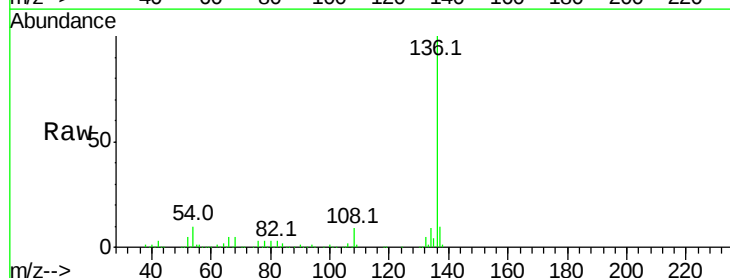
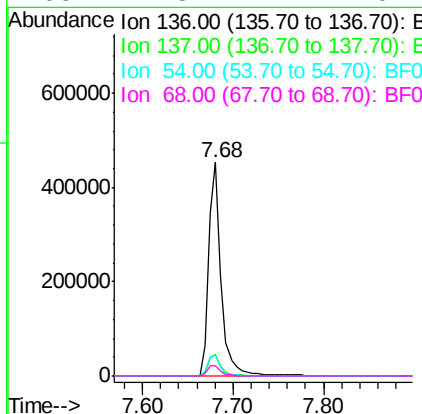
RT: 7.68 min Scan# 1002

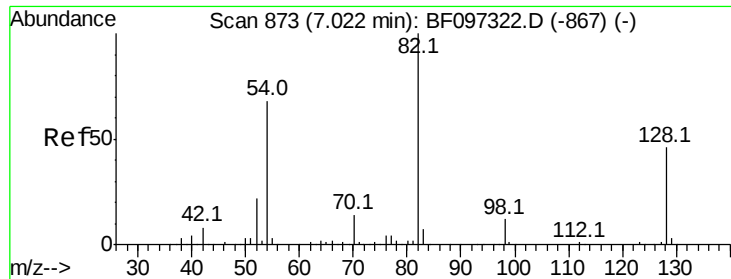
Delta R.T. -0.02 min

Lab File: BF097545.D

Acq: 10 Aug 2017 4:58

Tgt Ion:	136	Resp:	442526
Ion Ratio	Lower	Upper	
136	100		
137	10.0	8.5	12.7
54	9.8	4.9	7.3#
68	4.8	4.1	6.1





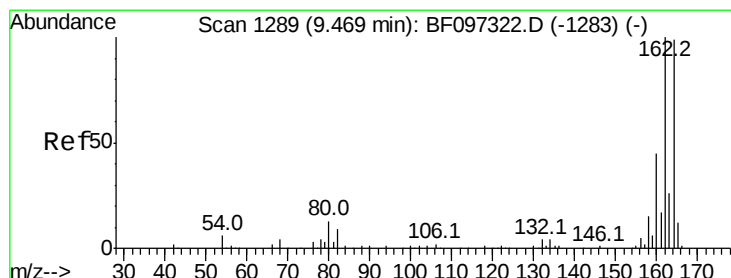
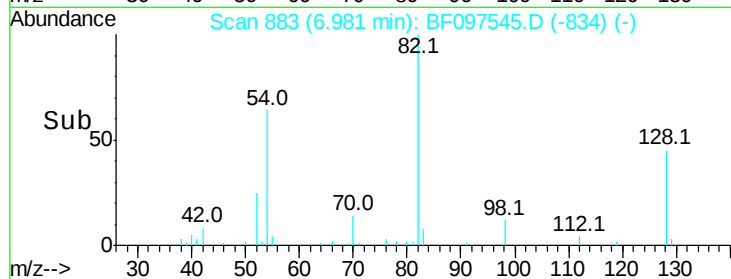
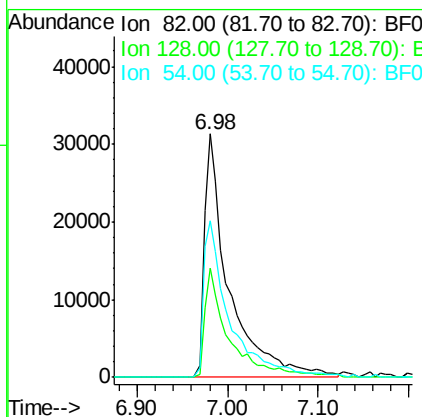
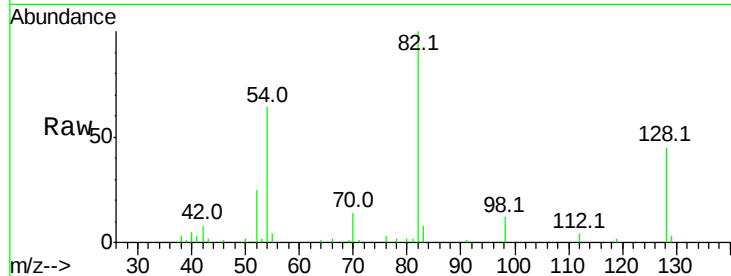
#23
Nitrobenzene-d5
Concen: 7.916 ng
RT: 6.98 min Scan# 883
Delta R.T. -0.01 min
Lab File: BF097545.D
Acq: 10 Aug 2017 4:58

Instrument :
BNA_F
ClientSampleId :
E2-D10-ESW

Tot Ion	Ratio	Lower	Upper
82	100		
128	45.0	34.0	51.0
54	64.1	42.2	63.2#

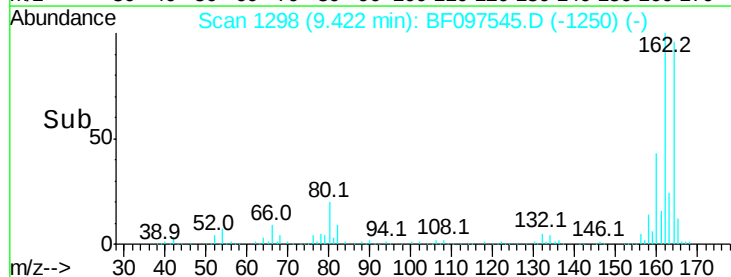
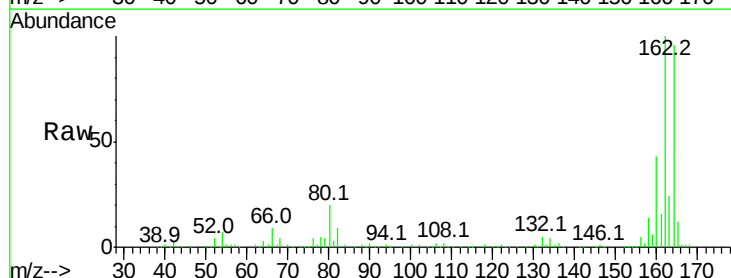
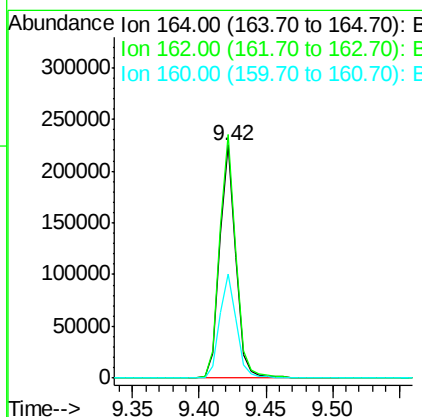
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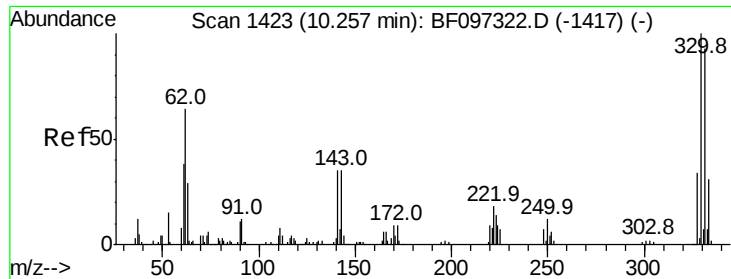
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#38
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.42 min Scan# 1298
Delta R.T. -0.02 min
Lab File: BF097545.D
Acq: 10 Aug 2017 4:58

Tgt Ion	Ratio	Lower	Upper
164	100		
162	104.5	82.6	123.8
160	44.5	36.2	54.2





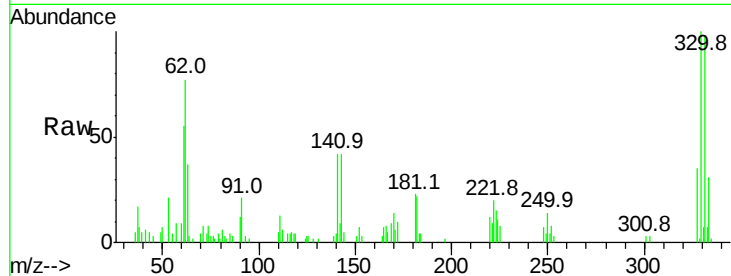
#41
 2,4,6-Tribromophenol
 Concen: 10.159 ng
 RT: 10.22 min Scan# 1433
 Delta R.T. -0.02 min
 Lab File: BF097545.D
 Acq: 10 Aug 2017 4:58

Instrument :
 BNA_F
 ClientSampleId :
 E2-D10-ESW

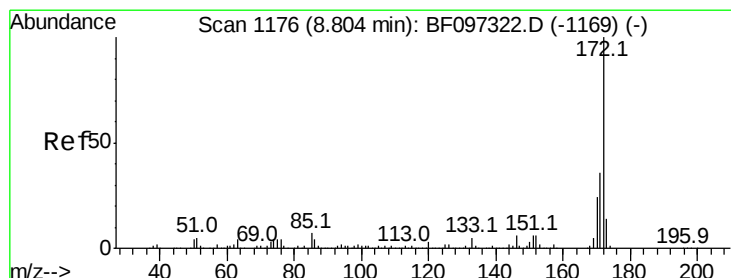
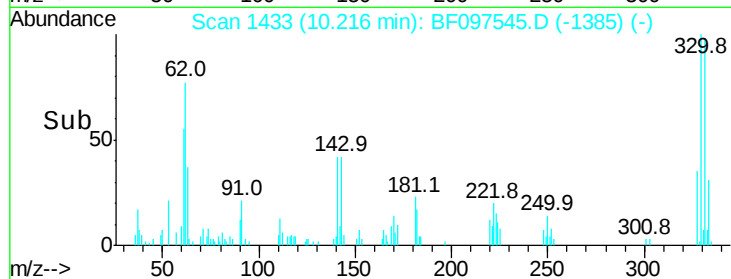
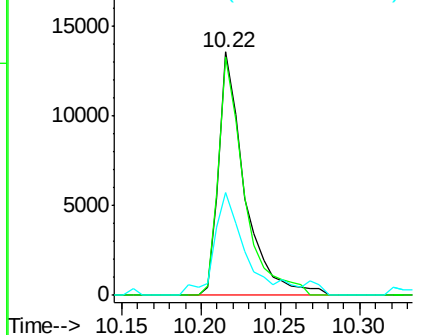
Tot Ion	Ratio	Resp	Lower	Upper
330	100			
332	96.7	76.6	115.0	
141	51.5	31.4	47.2	

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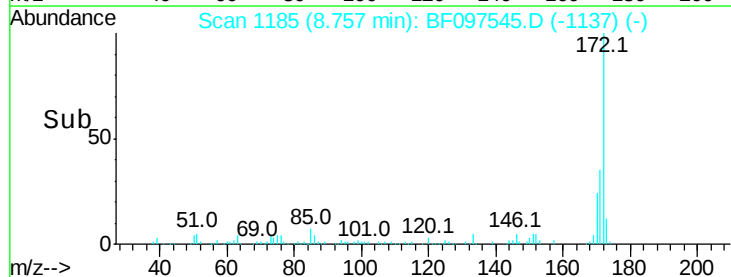
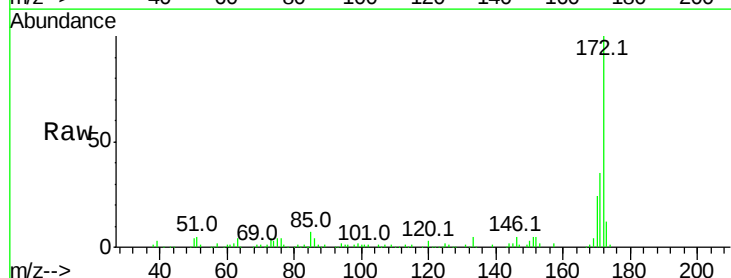
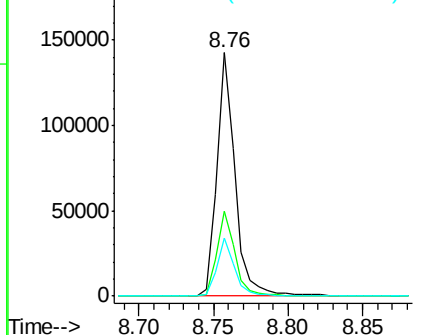
Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

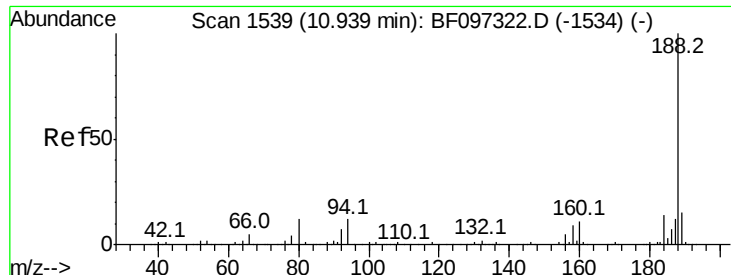


#44
 2-Fluorobiphenyl
 Concen: 10.659 ng
 RT: 8.76 min Scan# 1185
 Delta R.T. -0.02 min
 Lab File: BF097545.D
 Acq: 10 Aug 2017 4:58

Tgt Ion	Ratio	Resp	Lower	Upper
172	100			
171	34.9	29.6	44.4	
170	24.1	19.8	29.8	

Abundance Ion 172.00 (171.70 to 172.70): E
 Ion 171.00 (170.70 to 171.70): E
 Ion 170.00 (169.70 to 170.70): E





#63

Phenanthrene-d10

Concen: 20.000 ng

RT: 10.89 min Scan# 1548

Delta R.T. -0.02 min

Lab File: BF097545.D

Acq: 10 Aug 2017 4:58

Instrument :

BNA_F

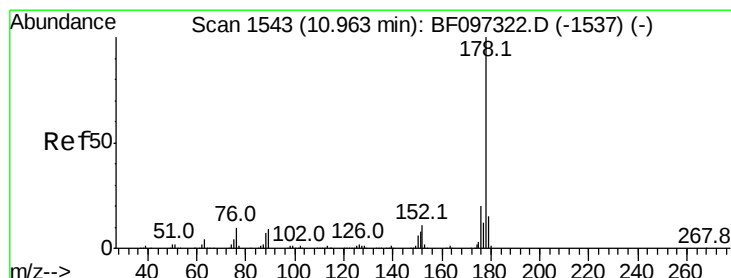
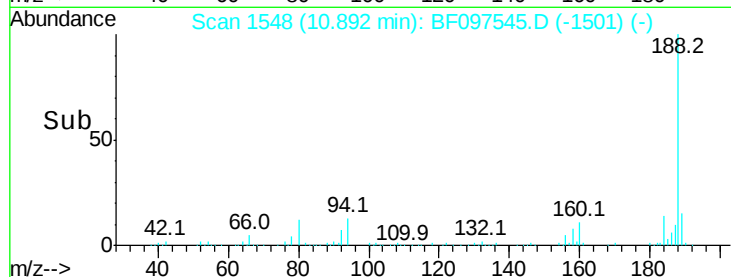
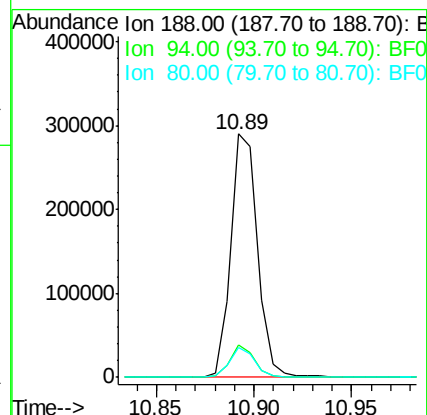
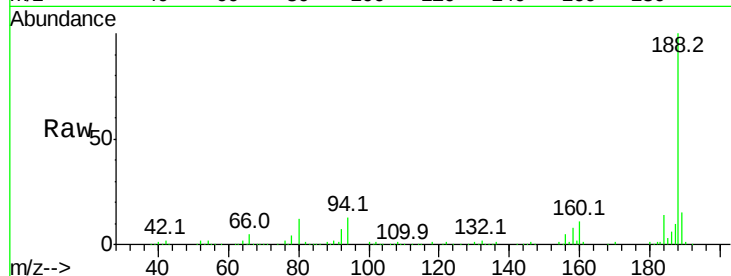
ClientSampleId :

E2-D10-ESW

Tot Ion:	188	Resp:	276023
Ion Ratio	Lower	Upper	
188	100		
94	13.3	9.4	14.2
80	12.5	10.2	15.2

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#70

Phenanthrene

Concen: 4.456 ng

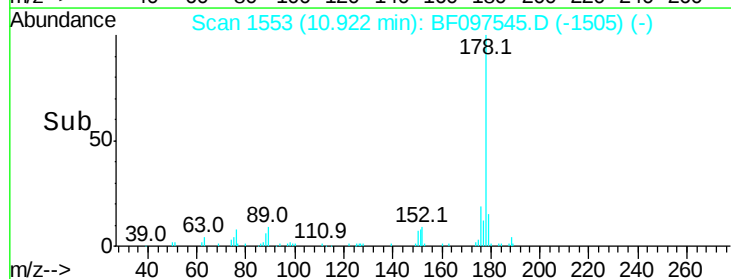
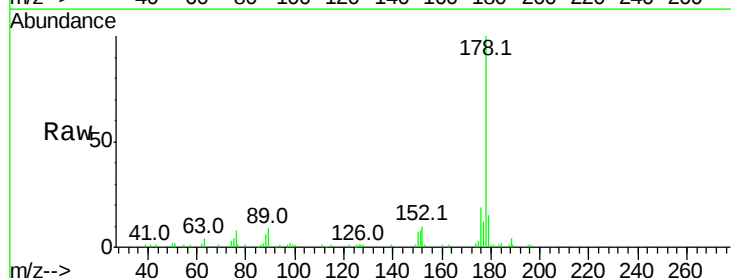
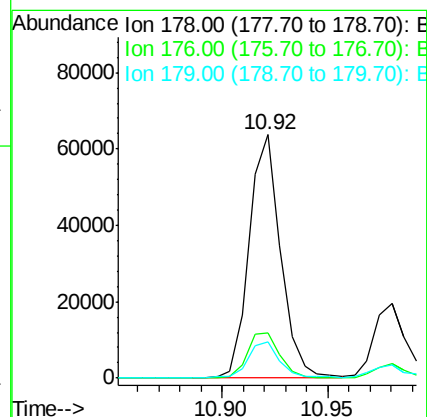
RT: 10.92 min Scan# 1553

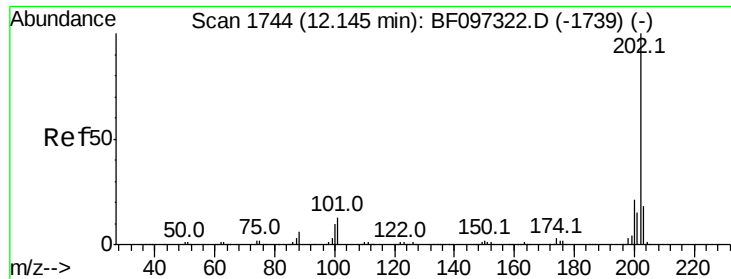
Delta R.T. -0.02 min

Lab File: BF097545.D

Acq: 10 Aug 2017 4:58

Tgt Ion:	178	Resp:	65908
Ion Ratio	Lower	Upper	
178	100		
176	18.8	16.2	24.4
179	14.9	12.6	19.0





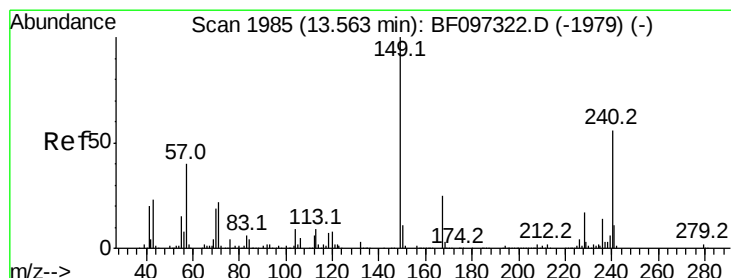
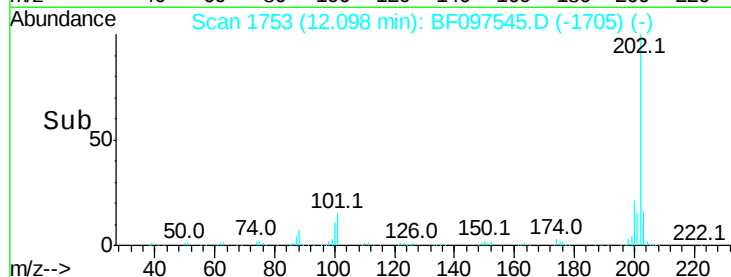
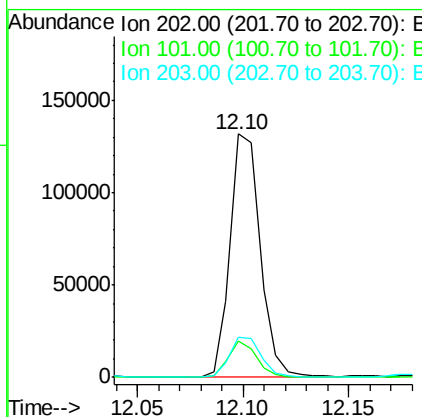
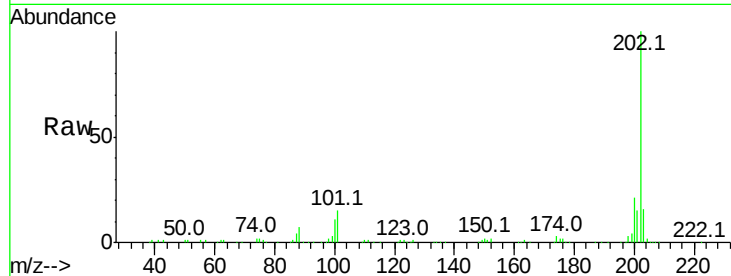
#74
Fluoranthene
Concen: 8.982 ng
RT: 12.10 min Scan# 1753
Delta R.T. -0.02 min
Lab File: BF097545.D
Acq: 10 Aug 2017 4:58

Instrument :
BNA_F
ClientSampleId :
E2-D10-ESW

Tot Ion	Ratio	Resp Lower	Upper
202	100		
101	15.0	0.0	33.2
203	16.4	0.0	38.1

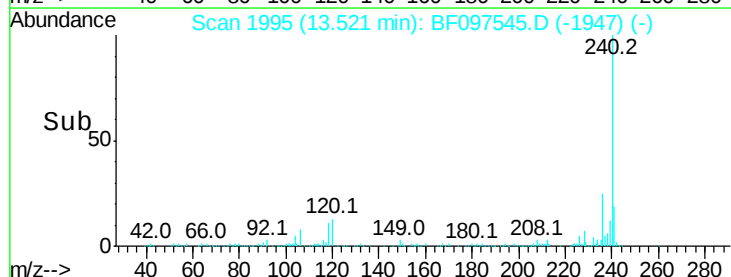
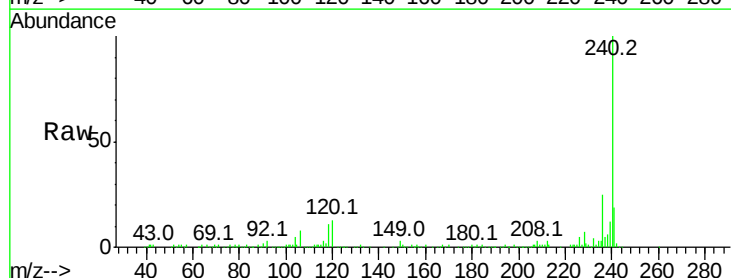
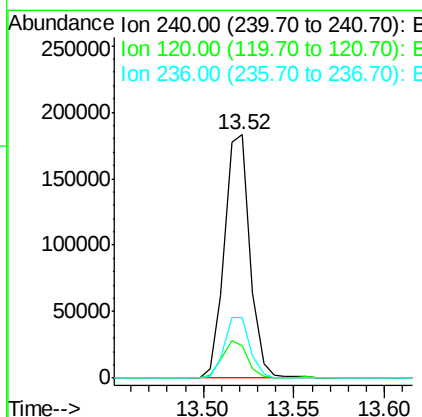
Manual Integrations
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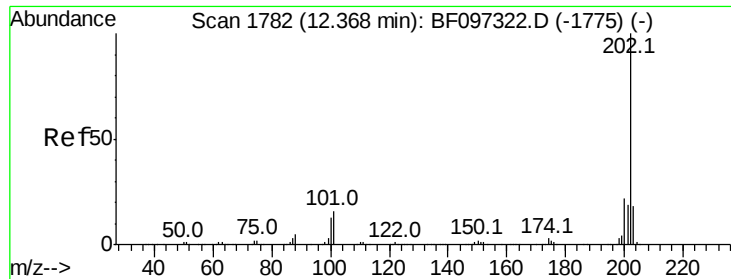
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#75
Chrysene-d12
Concen: 20.000 ng
RT: 13.52 min Scan# 1995
Delta R.T. -0.02 min
Lab File: BF097545.D
Acq: 10 Aug 2017 4:58

Tgt Ion	Ratio	Resp Lower	Upper
240	100		
120	13.5	5.8	8.8#
236	25.1	20.5	30.7





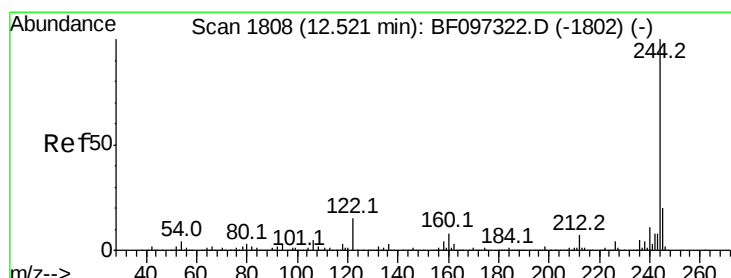
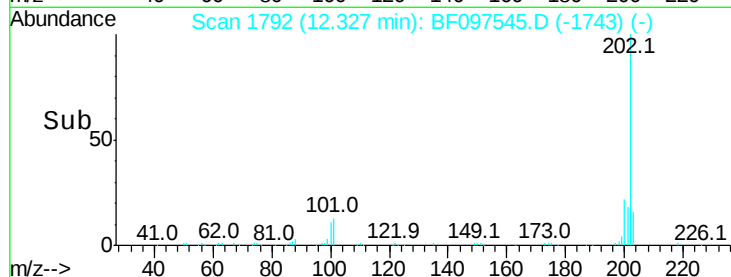
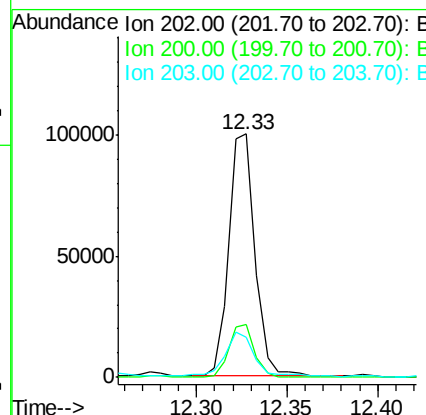
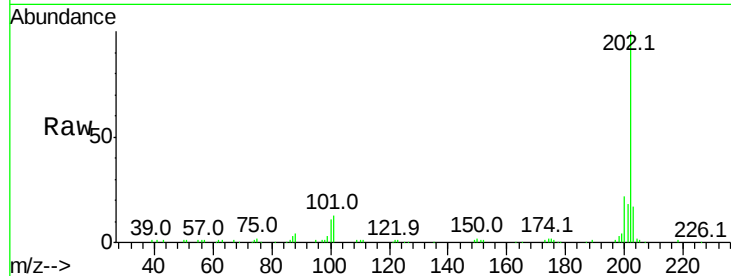
#77
Pvrene
Concen: 6.813 ng
RT: 12.33 min Scan# 1792
Delta R.T. -0.01 min
Lab File: BF097545.D
Acq: 10 Aug 2017 4:58

Instrument :
BNA_F
ClientSampled :
E2-D10-ESW

Tot Ion	Ratio	Resp Lower	Upper
202	100		
200	22.0	17.6	26.4
203	16.7	14.4	21.6

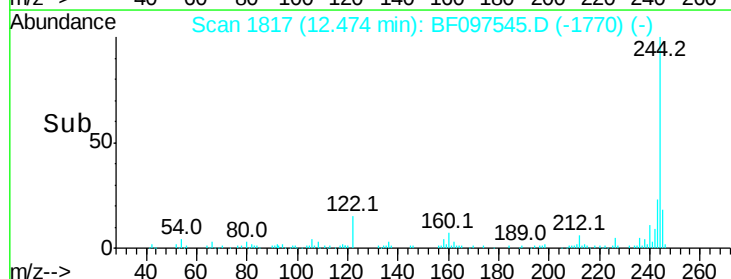
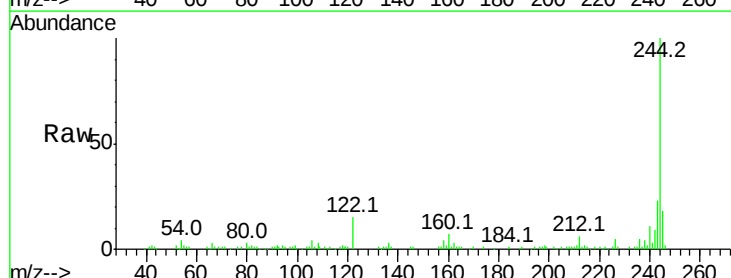
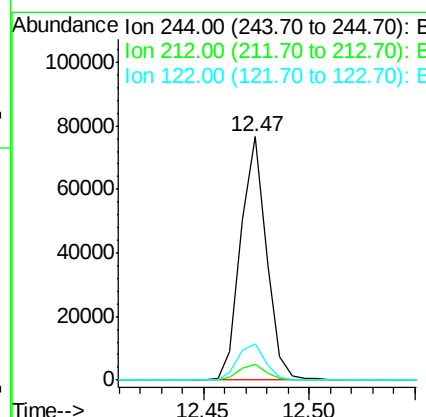
Manual Integrations
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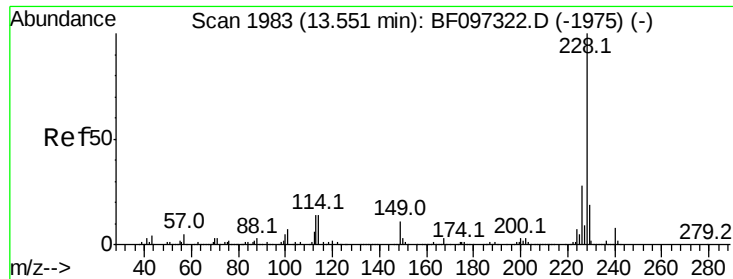
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#78
Terphenyl-d14
Concen: 7.257 ng
RT: 12.47 min Scan# 1817
Delta R.T. -0.02 min
Lab File: BF097545.D
Acq: 10 Aug 2017 4:58

Tgt Ion	Ratio	Resp Lower	Upper
244	100		
212	6.4	6.0	9.0
122	14.9	10.3	15.5





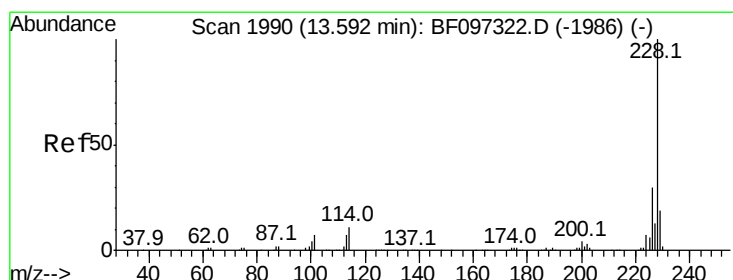
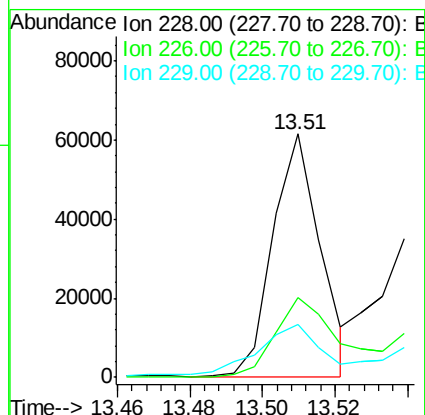
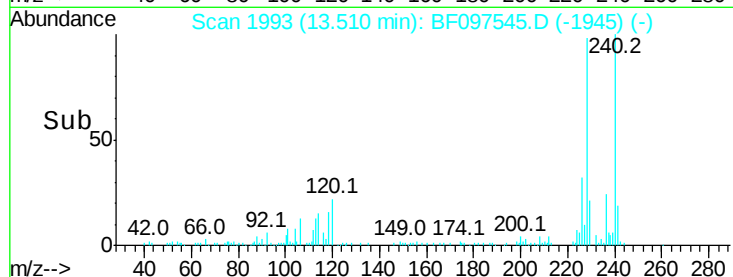
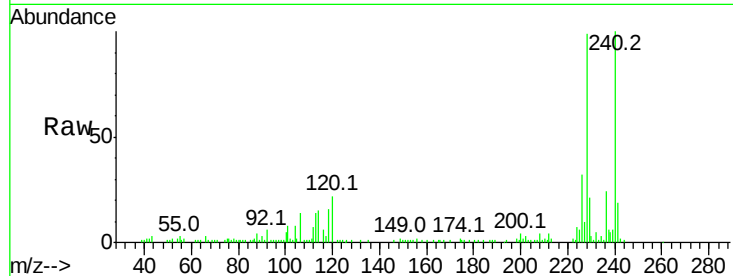
#80
Benzo(a)anthracene
Concen: 4.822 ng
RT: 13.51 min Scan# 1993
Delta R.T. -0.02 min
Lab File: BF097545.D
Acq: 10 Aug 2017 4:58

Instrument :
BNA_F
ClientSampleId :
E2-D10-ESW

Tot Ion:228	Resp:	56326
Ion Ratio	Lower	Upper
228 100		
226 32.8	22.6	33.8
229 21.7	16.3	24.5

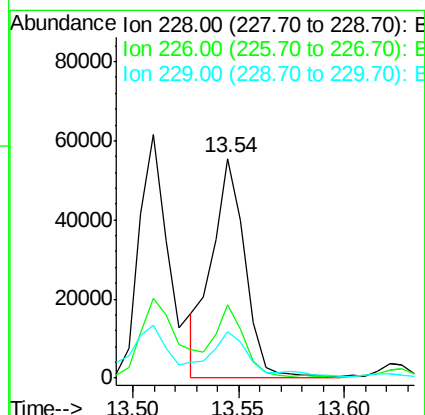
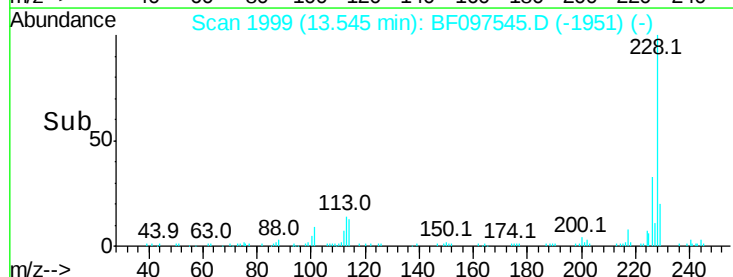
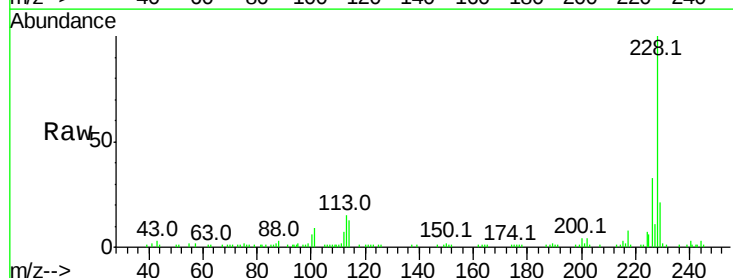
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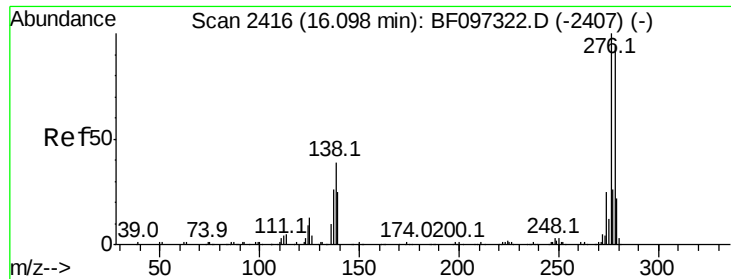
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#82
Chrysene
Concen: 5.350 ng
RT: 13.54 min Scan# 1999
Delta R.T. -0.02 min
Lab File: BF097545.D
Acq: 10 Aug 2017 4:58

Tgt Ion:228	Resp:	61024
Ion Ratio	Lower	Upper
228 100		
226 33.1	24.9	37.3
229 21.3	15.8	23.6





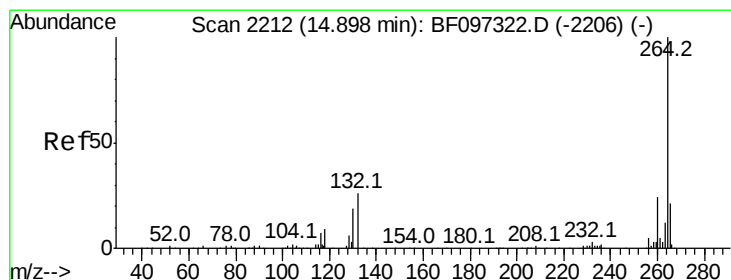
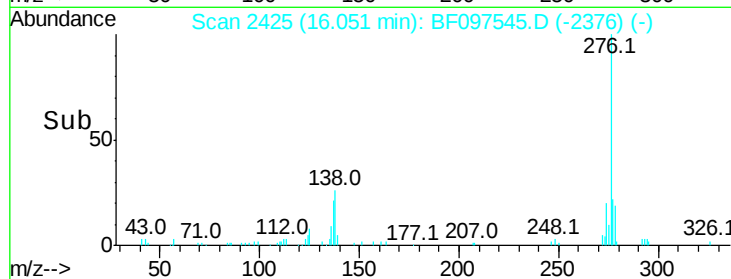
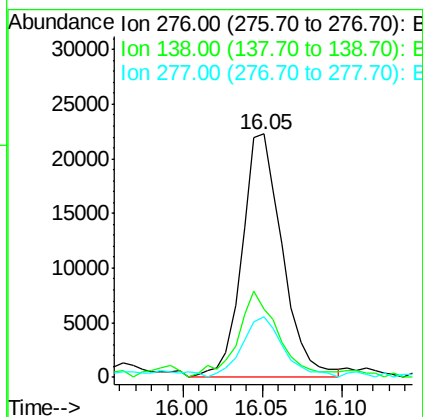
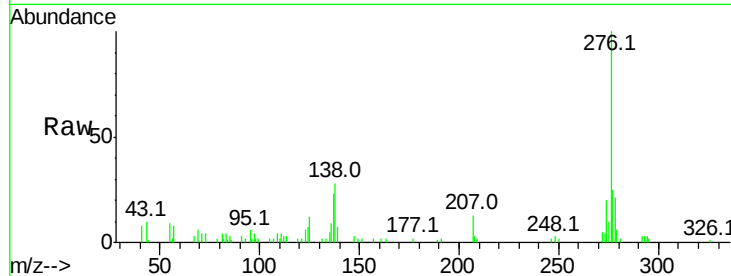
#85
Indeno(1,2,3-cd)pyrene
Concen: 4.025 ng
RT: 16.05 min Scan# 2425
Delta R.T. -0.01 min
Lab File: BF097545.D
Acq: 10 Aug 2017 4:58

Instrument :
BNA_F
ClientSampleId :
E2-D10-ESW

Tot Ion	Ratio	Lower	Upper
276	100		
138	36.0	27.8	41.6
277	25.4	20.2	30.4

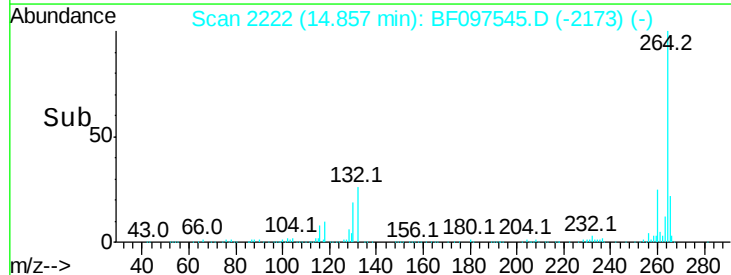
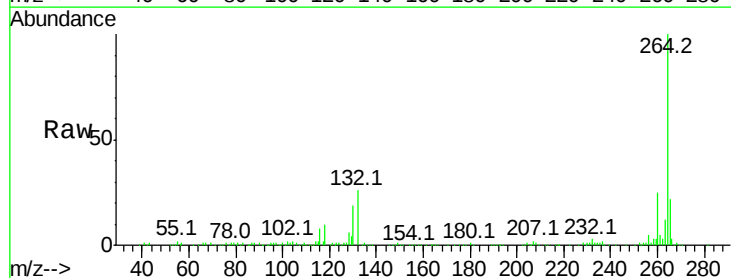
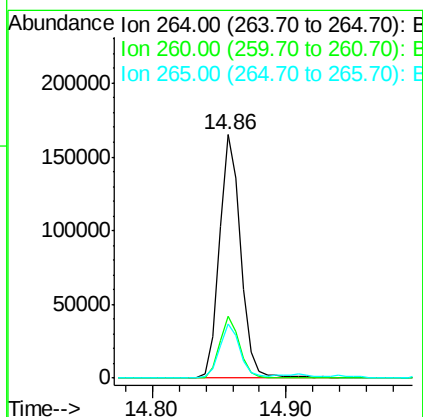
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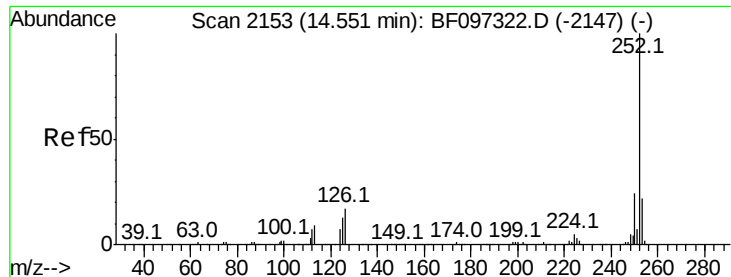
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#86
Perylene-d12
Concen: 20.000 ng
RT: 14.86 min Scan# 2222
Delta R.T. -0.01 min
Lab File: BF097545.D
Acq: 10 Aug 2017 4:58

Tgt Ion	Ratio	Lower	Upper
264	100		
260	25.5	19.5	29.3
265	22.2	17.2	25.8





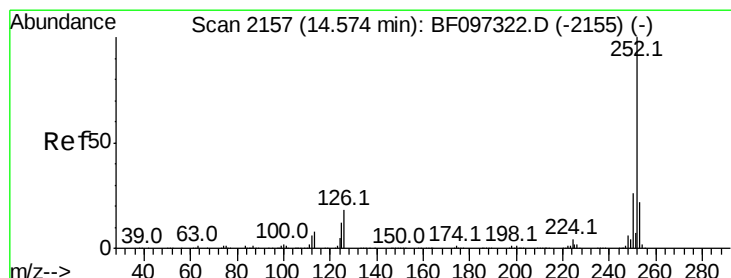
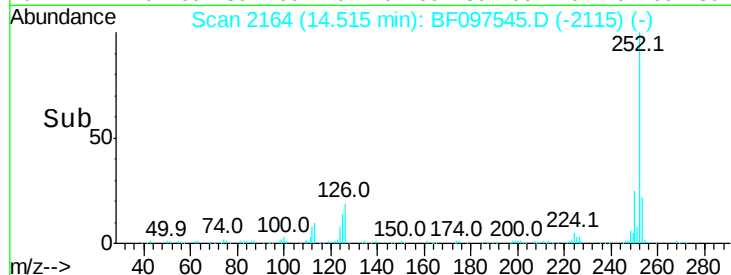
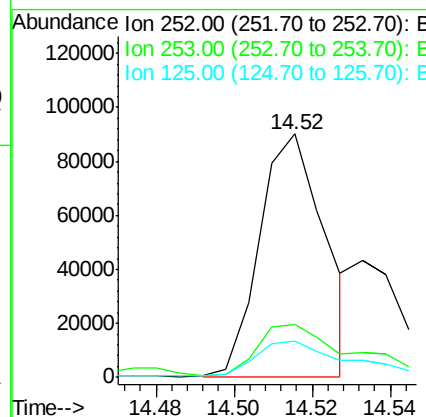
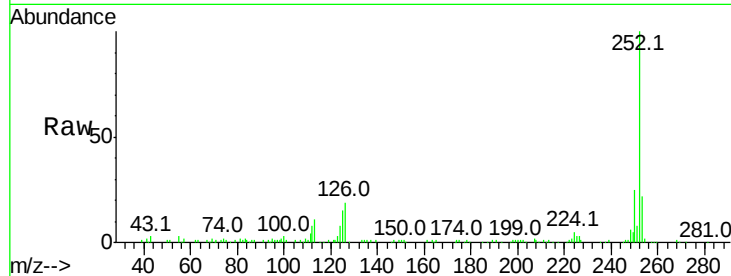
#87
Benzo(b)fluoranthene
Concen: 9.460 ng m
RT: 14.52 min Scan# 2164
Delta R.T. -0.01 min
Lab File: BF097545.D
Acq: 10 Aug 2017 4:58

Instrument :
BNA_F
ClientSampleId :
E2-D10-ESW

Tot Ion	Ratio	Lower	Upper
252	100		
253	21.5	18.1	27.1
125	14.8	9.8	14.8

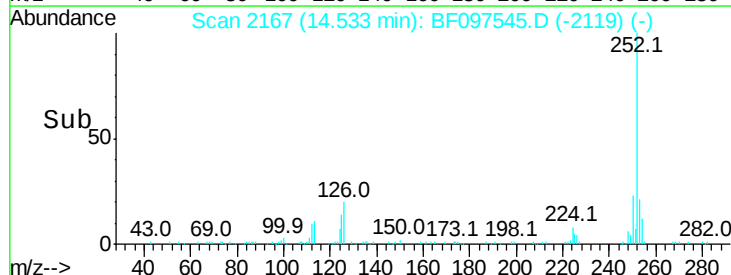
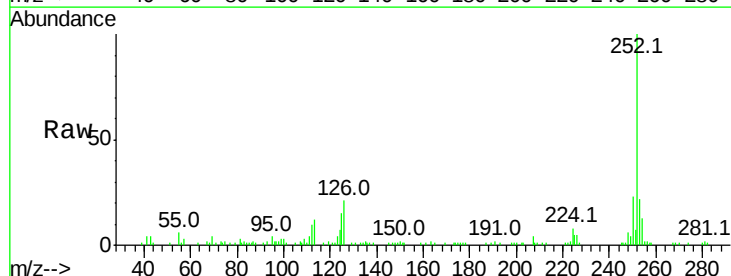
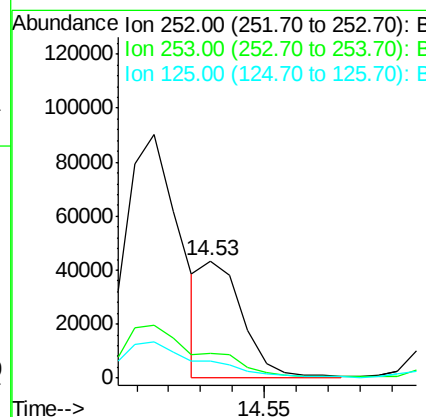
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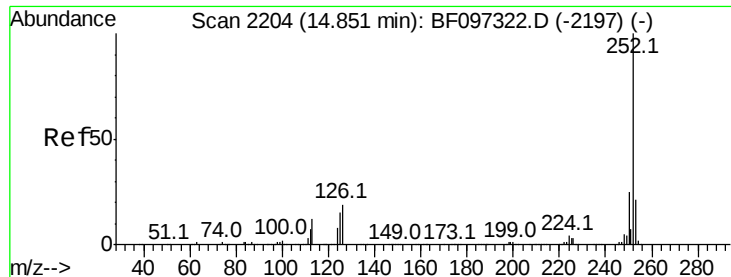
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#88
Benzo(k)fluoranthene
Concen: 3.620 ng m
RT: 14.53 min Scan# 2167
Delta R.T. -0.02 min
Lab File: BF097545.D
Acq: 10 Aug 2017 4:58

Tgt Ion	Ratio	Lower	Upper
252	100		
253	21.5	18.4	27.6
125	15.0	13.1	19.7





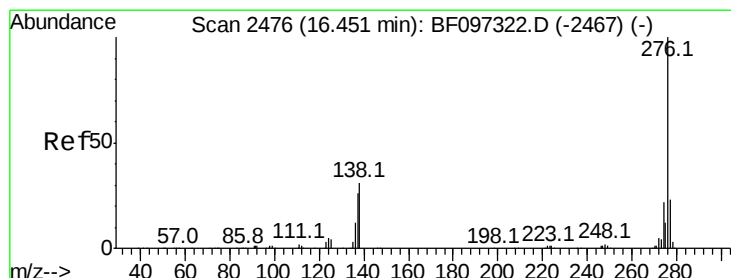
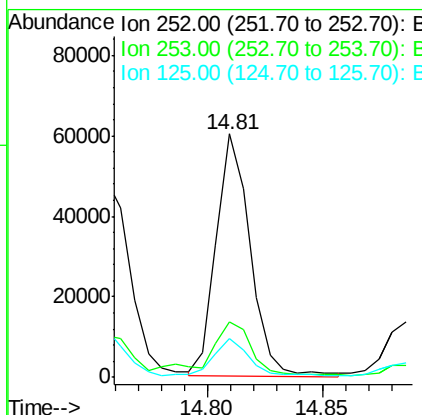
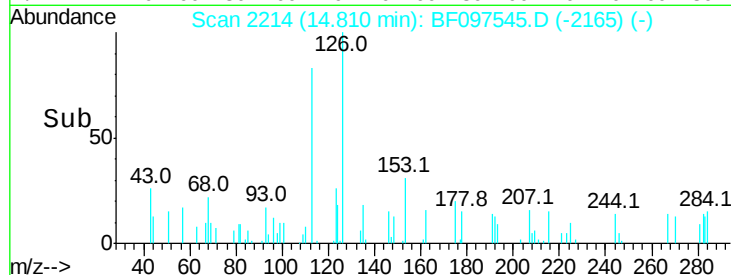
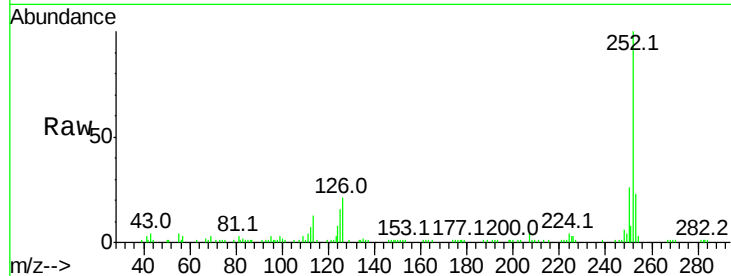
#89
Benzo(a)pyrene
Concen: 6.062 ng
RT: 14.81 min Scan# 2214
Delta R.T. -0.01 min
Lab File: BF097545.D
Acq: 10 Aug 2017 4:58

Instrument :
BNA_F
ClientSampleId :
E2-D10-ESW

Tot Ion	Ratio	Lower	Upper
252	100		
253	22.8	17.5	26.3
125	16.2	11.0	16.4

Manual Integrations
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#91
Benzo(g,h,i)perylene
Concen: 3.861 ng
RT: 16.40 min Scan# 2484
Delta R.T. -0.01 min
Lab File: BF097545.D
Acq: 10 Aug 2017 4:58

Tgt Ion	Ratio	Lower	Upper
276	100		
277	26.6	18.6	28.0
138	38.0	25.4	38.0

