

Data Path : Z:\HPCHEM1\BNA F\DATA\BF111617\
 Data File : BF100629.D
 Acq On : 16 Nov 2017 14:37
 Operator : SJ/JU
 Sample : I6302-01 10X
 Misc :
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 HR-04-111317-A

Manual Integrations
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Quant Time: Nov 16 15:08:37 2017
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF110817.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Nov 16 11:34:03 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.88	152	106850	20.00	ng	-0.02
21) Naphthalene-d8	8.16	136	424747	20.00	ng	-0.02
38) Acenaphthene-d10	9.92	164	198019	20.00	ng	-0.02
63) Phenanthrene-d10	11.40	188	365257	20.00	ng	-0.02
75) Chrysene-d12	14.04	240	214264	20.00	ng	-0.02
86) Perylene-d12	15.52	264	250961	20.00	ng	-0.02
System Monitoring Compounds						
5) 2-Fluorophenol	5.49	112	78358	11.76	ng	-0.02
7) Phenol-d6	6.49	99	97139	11.82	ng	-0.03
23) Nitrobenzene-d5	7.43	82	54464	8.48	ng	-0.04
41) 2,4,6-Tribromophenol	10.70	330	12532	6.21	ng	-0.02
44) 2-Fluorobiphenyl	9.23	172	125113	9.62	ng	-0.03
78) Terphenyl-d14	12.98	244	102456	10.99	ng	-0.03
Target Compounds						Qvalue
31) Naphthalene	8.19	128	309455	15.126	ng	99
37) 2-Methylnaphthalene	8.87	142	150075	11.049	ng	97
45) 1,1'-Biphenyl	9.33	154	43776	2.556	ng	95
48) Acenaphthylene	9.77	152	74510	3.619	ng	# 96
51) Acenaphthene	9.95	154	237321	18.951	ng	99
54) Dibenzofuran	10.12	168	274612	15.646	ng	95
57) Fluorene	10.46	166	405958	31.573	ng	99
70) Phenanthrene	11.44	178	1834553	95.394	ng	99
71) Anthracene	11.48	178	719973	36.901	ng	99
72) Carbazole	11.63	167	162048	9.001	ng	98
74) Fluoranthene	12.63	202	1696817	83.253	ng	98
77) Pylene	12.86	202	1482569	97.068	ng	100
80) Benzo(a)anthracene	14.03	228	744489	57.699	ng	97
82) Chrysene	14.07	228	594460	47.577	ng	97
85) Indeno(1,2,3-cd)pyrene	17.00	276	361106m	35.731	ng	
87) Benzo(b)fluoranthene	15.09	252	737310m	49.590	ng	
88) Benzo(k)fluoranthene	15.12	252	303674m	21.617	ng	
89) Benzo(a)pyrene	15.46	252	589621	44.732	ng	96
90) Dibenzo(a,h)anthracene	17.01	278	95674m	8.875	ng	
91) Benzo(a,h,i)perylene	17.46	276	312946	29.657	ng	93

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

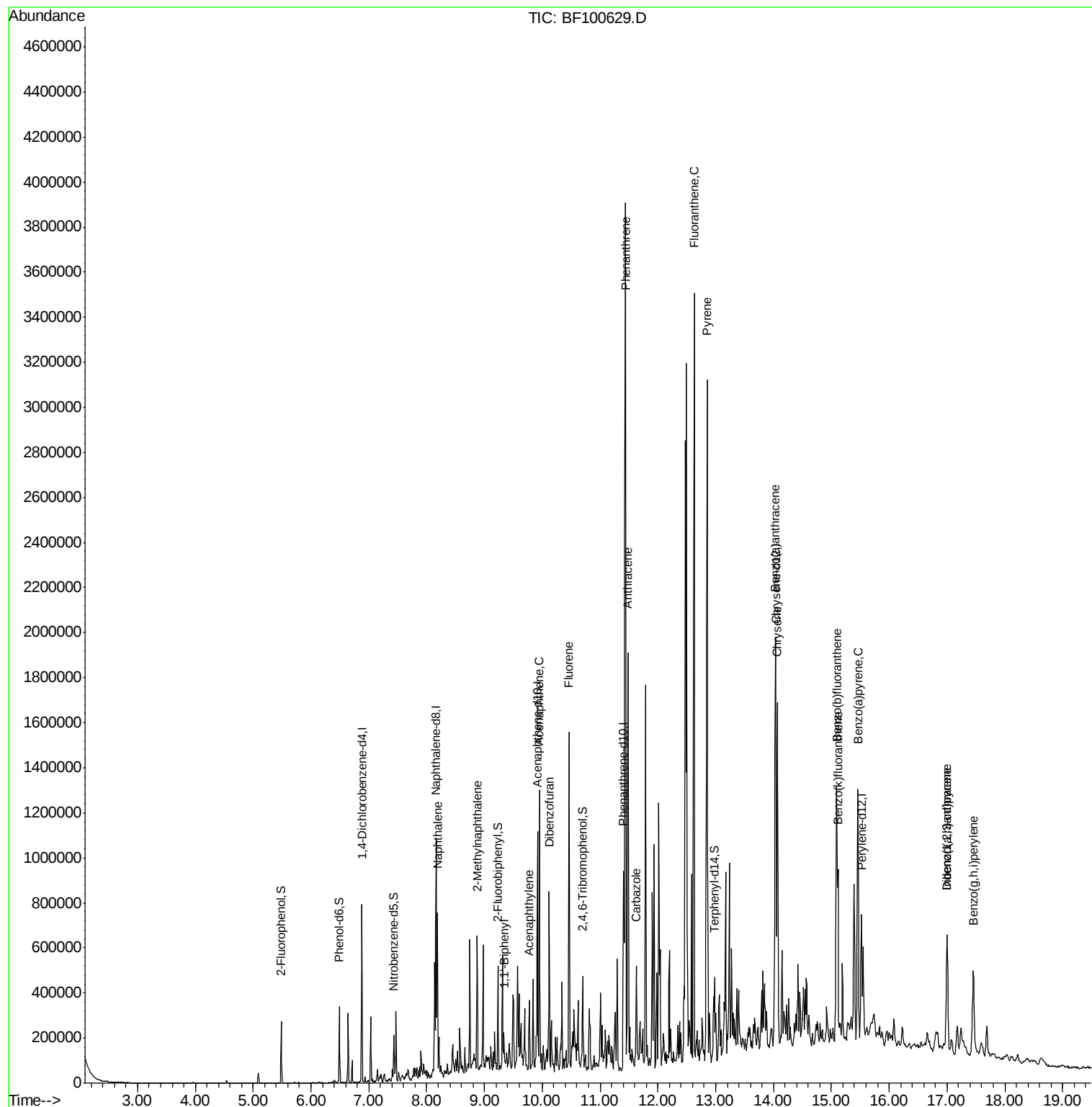
Data Path : Z:\HPCHEM1\BNA F\DATA\BF111617\
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ALS Vial : 13 Sample Multiplier: 1

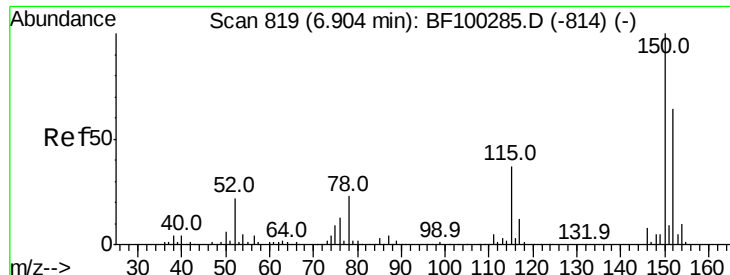
Instrument :
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#1

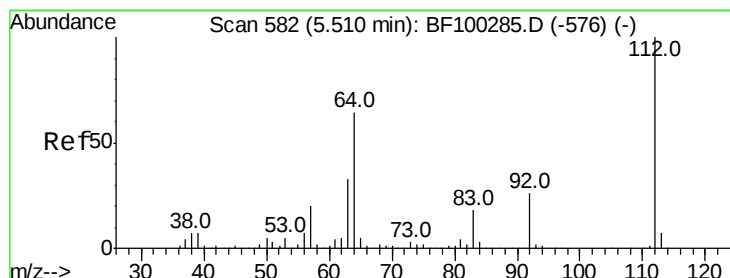
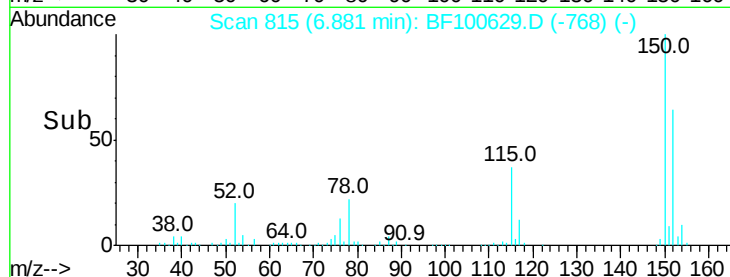
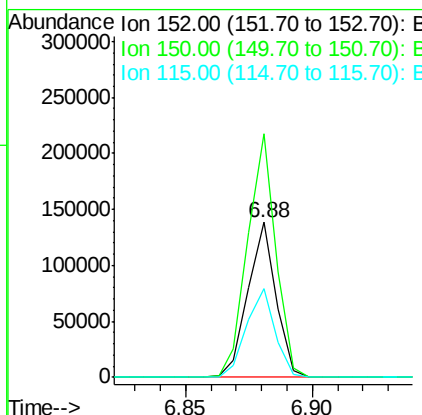
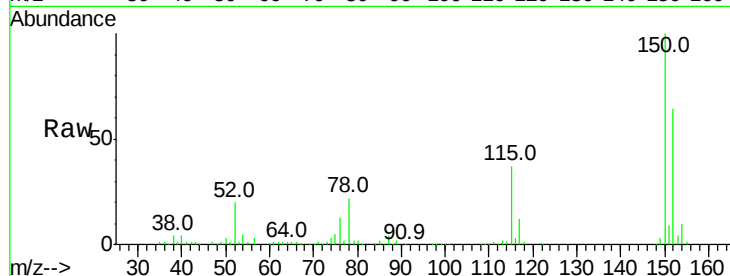
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.88 min Scan# 815
Delta R.T. -0.02 min
Lab File: BF100629.D
Acq: 16 Nov 2017 14:37

Instrument :
BNA_F
ClientSampleId :
HR-04-111317-A

Tot Ion	Ratio	Lower	Upper
152	100		
150	156.9	124.6	186.8
115	57.3	50.1	75.1

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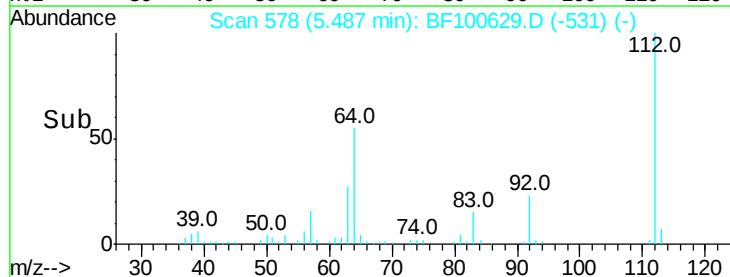
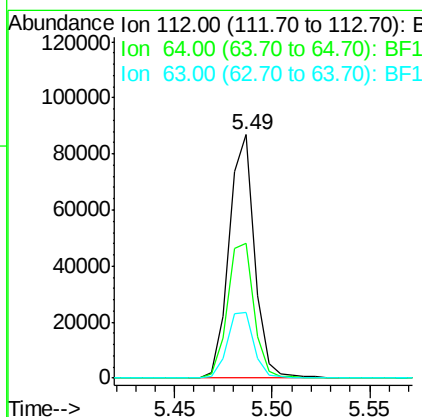
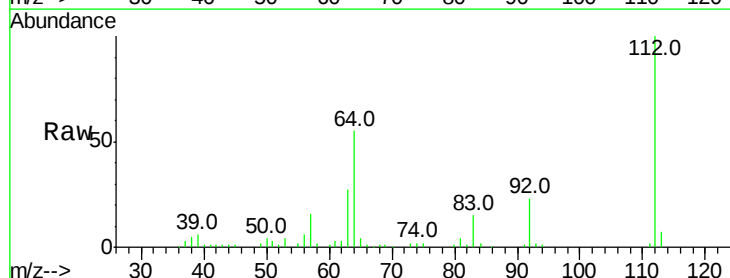
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#5

2-Fluorophenol
Concen: 11.755 ng
RT: 5.49 min Scan# 578
Delta R.T. -0.02 min
Lab File: BF100629.D
Acq: 16 Nov 2017 14:37

Tgt Ion	Ratio	Lower	Upper
112	100		
64	55.3	47.9	71.9
63	26.8	23.7	35.5





#7

Phenol-d6

Concen: 11.818 ng

RT: 6.49 min Scan# 749

Delta R.T. -0.03 min

Lab File: BF100629.D

Acq: 16 Nov 2017 14:37

Instrument :

BNA_F

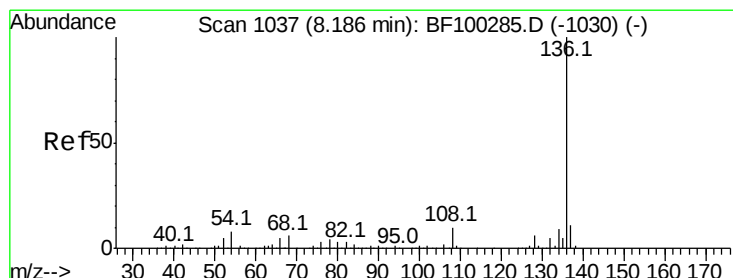
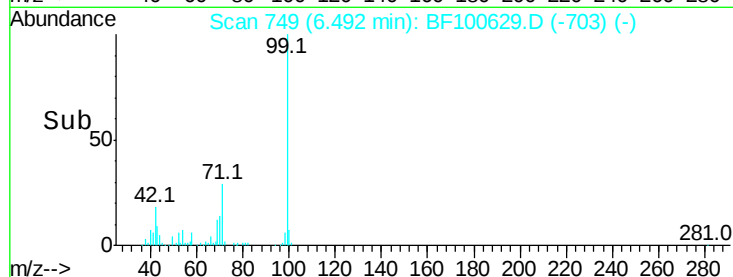
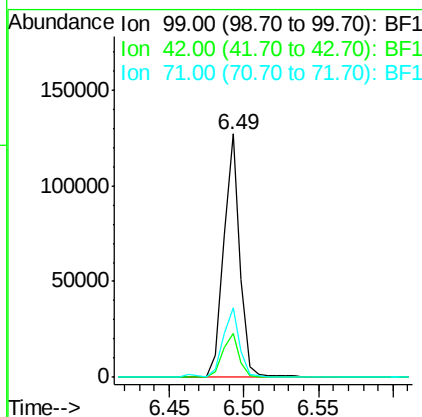
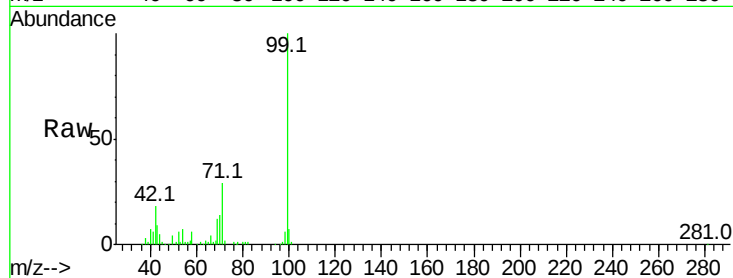
ClientSampleId :

HR-04-111317-A

Tot Ion	99	Resp	97139
Ion	Ratio	Lower	Upper
99	100		
42	18.1	14.5	21.7
71	28.8	25.4	38.0

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#21

Naphthalene-d8

Concen: 20.000 ng

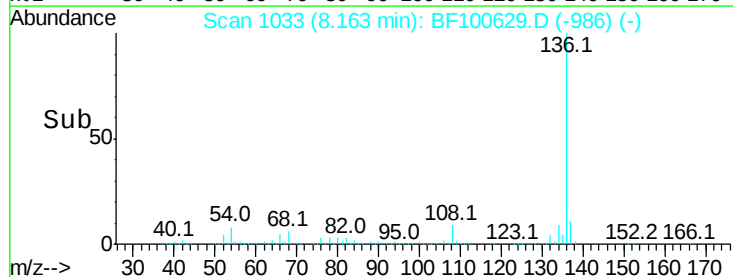
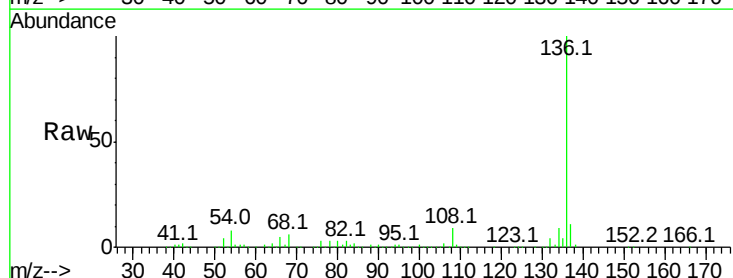
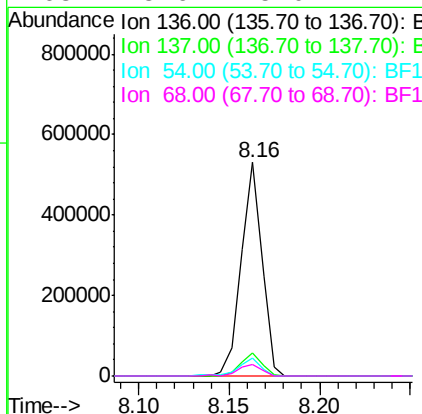
RT: 8.16 min Scan# 1033

Delta R.T. -0.02 min

Lab File: BF100629.D

Acq: 16 Nov 2017 14:37

Tgt Ion	136	Resp	424747
Ion	Ratio	Lower	Upper
136	100		
137	10.7	8.9	13.3
54	8.2	6.6	9.8
68	5.6	5.0	7.4





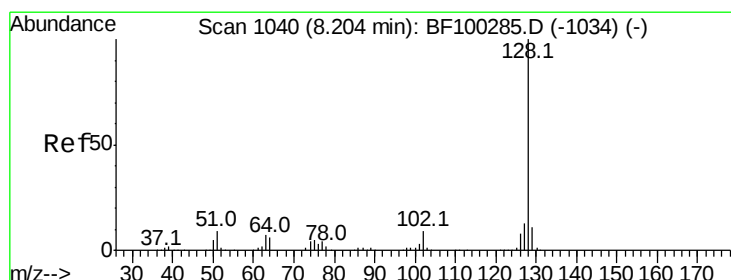
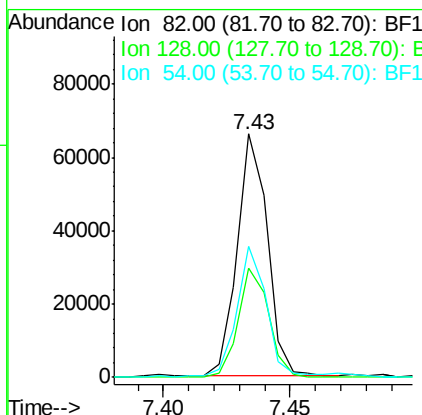
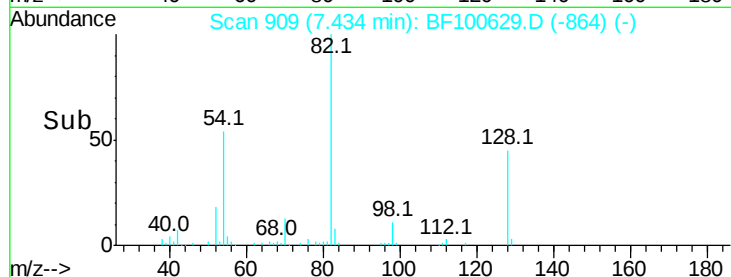
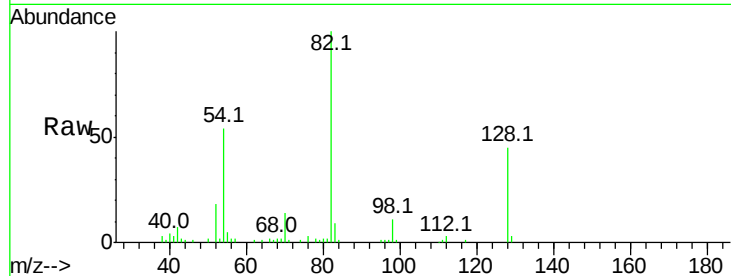
#23
 Nitrobenzene-d5
 Concen: 8.478 ng
 RT: 7.43 min Scan# 909
 Delta R.T. -0.04 min
 Lab File: BF100629.D
 Acq: 16 Nov 2017 14:37

Instrument :
 BNA_F
 ClientSampleId :
 HR-04-111317-A

Tot Ion:	82	Resp:	54464
Ion Ratio	Lower	Upper	
82	100		
128	44.9	36.1	54.1
54	54.0	41.4	62.2

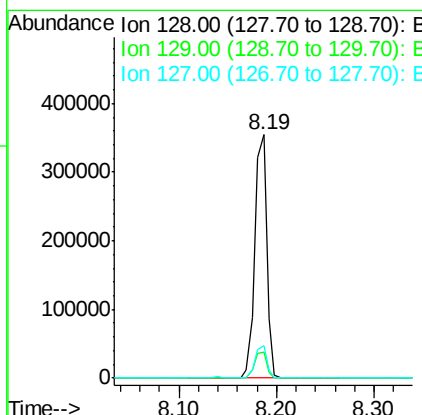
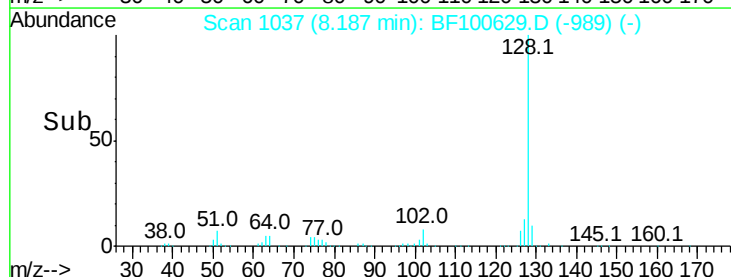
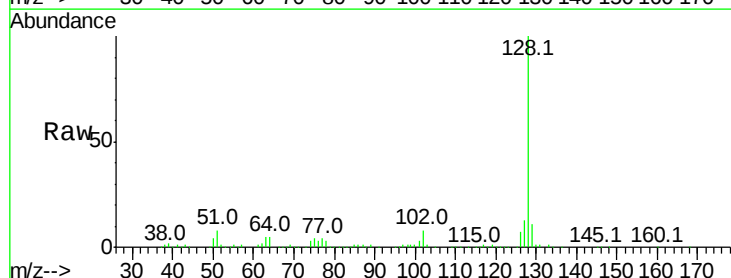
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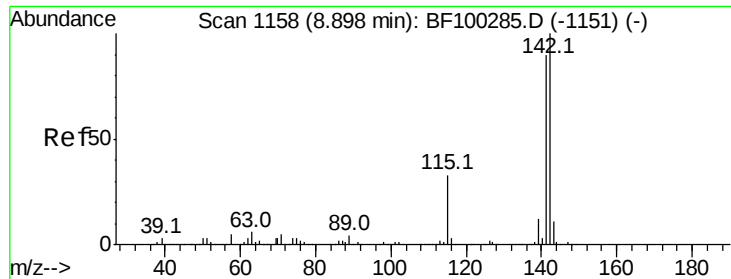
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#31
 Naphthalene
 Concen: 15.126 ng
 RT: 8.19 min Scan# 1037
 Delta R.T. -0.02 min
 Lab File: BF100629.D
 Acq: 16 Nov 2017 14:37

Tgt Ion:	128	Resp:	309455
Ion Ratio	Lower	Upper	
128	100		
129	10.7	8.8	13.2
127	13.3	10.9	16.3





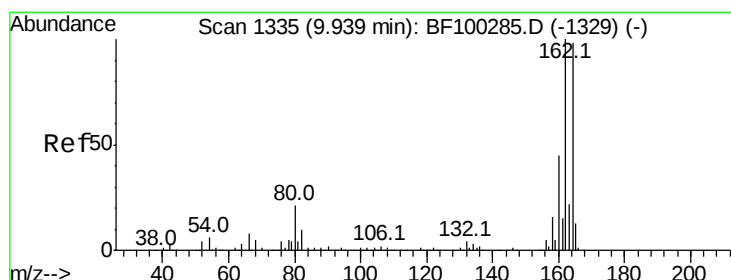
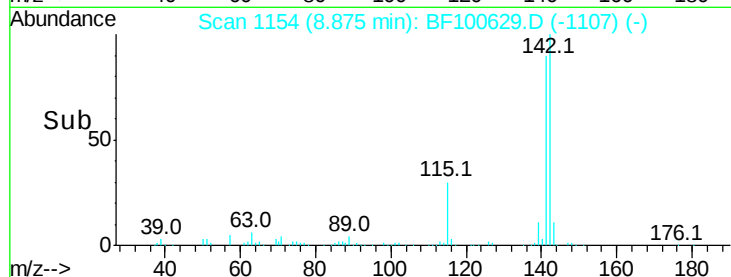
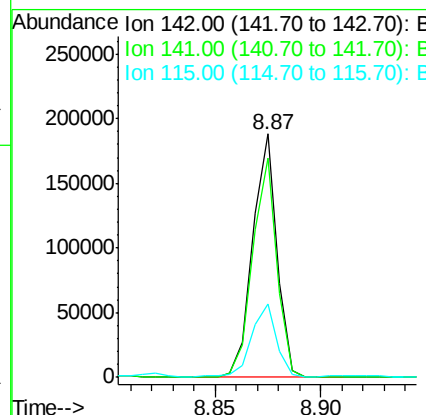
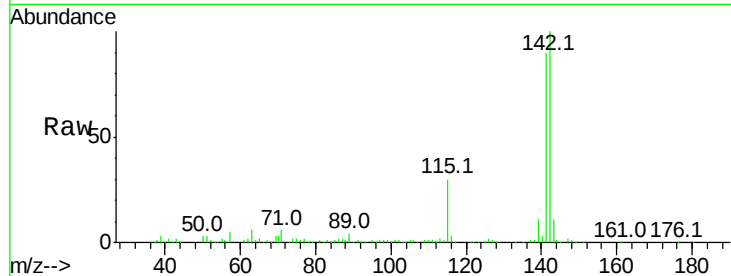
#37
2-Methylnaphthalene
Concen: 11.049 ng
RT: 8.87 min Scan# 1154
Delta R.T. -0.02 min
Lab File: BF100629.D
Acq: 16 Nov 2017 14:37

Instrument :
BNA_F
ClientSampleId :
HR-04-111317-A

Tot Ion	Ratio	Lower	Upper
142	100		
141	90.3	70.8	106.2
115	30.1	26.1	39.1

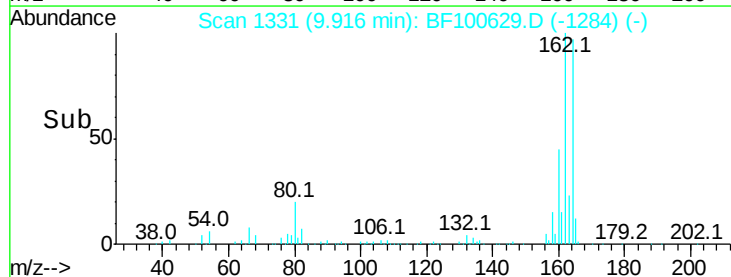
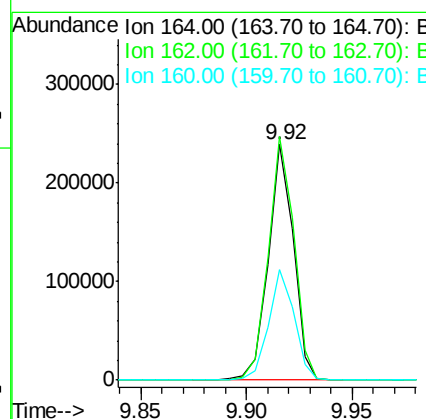
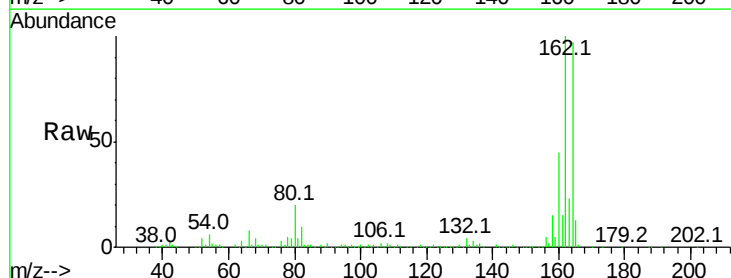
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#38
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.92 min Scan# 1331
Delta R.T. -0.02 min
Lab File: BF100629.D
Acq: 16 Nov 2017 14:37

Tgt Ion	Ratio	Lower	Upper
164	100		
162	103.5	86.1	129.1
160	46.7	38.3	57.5





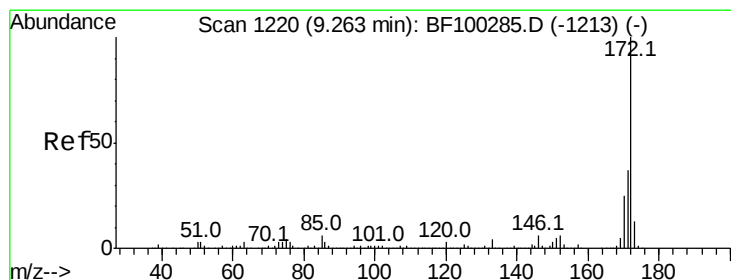
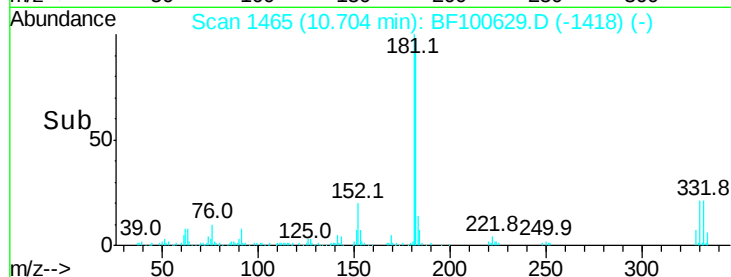
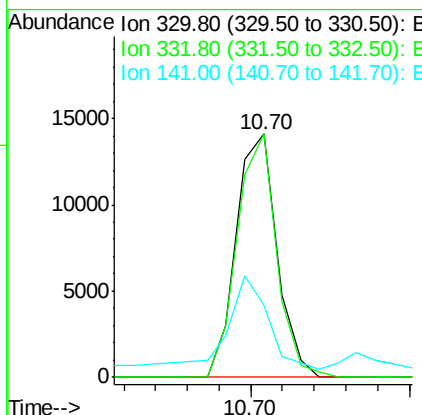
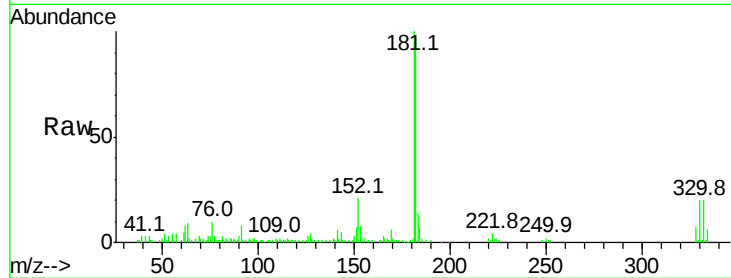
#41
 2,4,6-Tribromophenol
 Concen: 6.211 ng
 RT: 10.70 min Scan# 1465
 Delta R.T. -0.02 min
 Lab File: BF100629.D
 Acq: 16 Nov 2017 14:37

Instrument :
 BNA_F
 ClientSampleId :
 HR-04-111317-A

Tot Ion	Ratio	Lower	Upper
330	100		
332	96.5	77.0	115.6
141	38.2	29.9	44.9

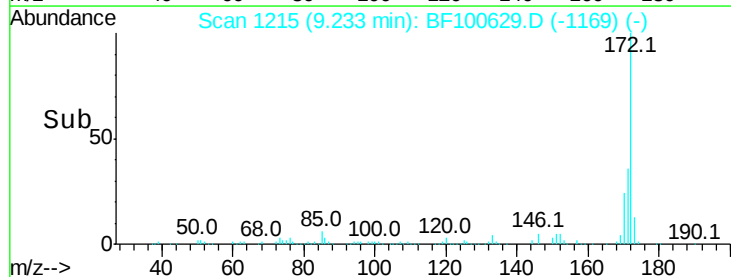
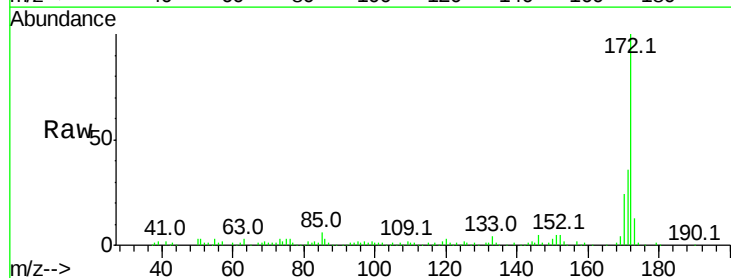
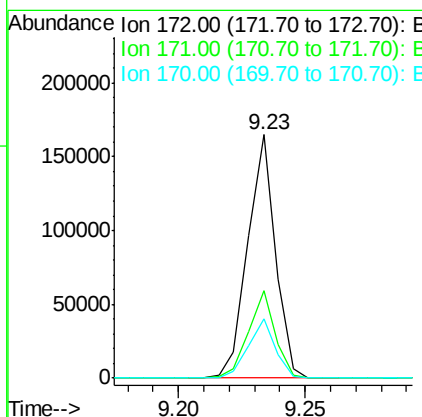
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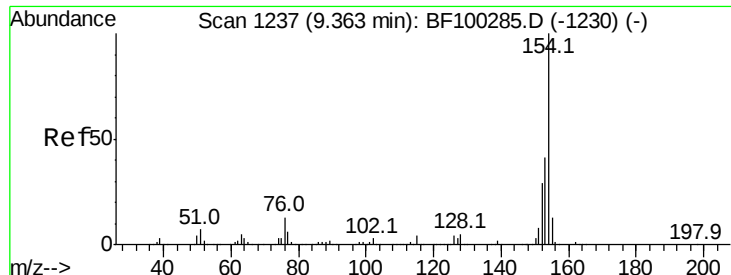
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#44
 2-Fluorobiphenyl
 Concen: 9.621 ng
 RT: 9.23 min Scan# 1215
 Delta R.T. -0.03 min
 Lab File: BF100629.D
 Acq: 16 Nov 2017 14:37

Tgt Ion	Ratio	Lower	Upper
172	100		
171	35.9	29.7	44.5
170	24.2	19.6	29.4





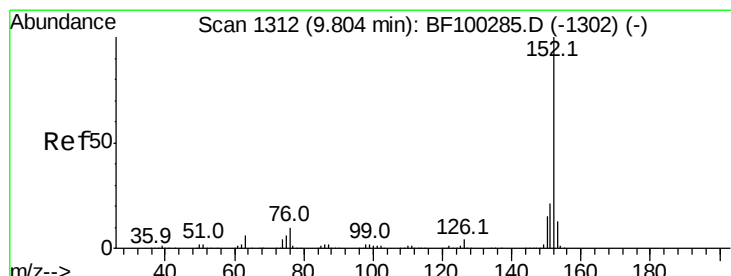
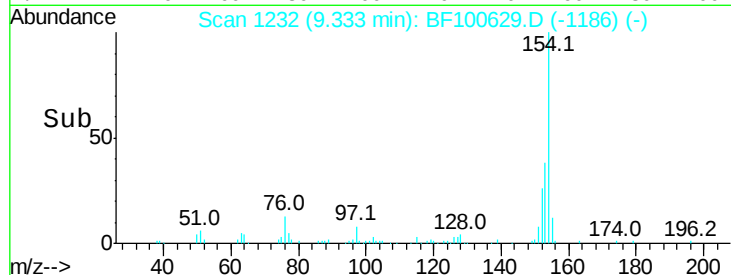
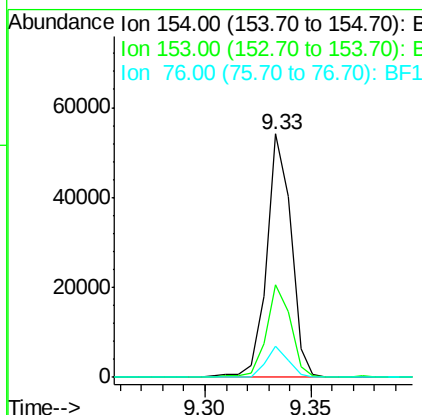
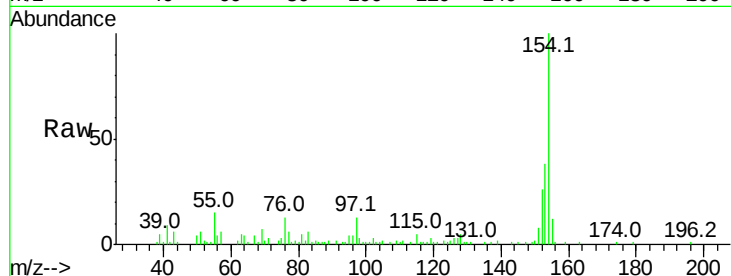
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 1,1'-Biphenyl
 Concen: 2.556 ng
 RT: 9.33 min Scan# 1232
 Delta R.T. -0.03 min
 Lab File: BF100629.D
 Acq: 16 Nov 2017 14:37

Instrument :
 BNA_F
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 HR-04-111317-A

Tot Ion	Ratio	Lower	Upper
154	100		
153	37.9	21.3	61.3
76	13.1	0.0	34.0

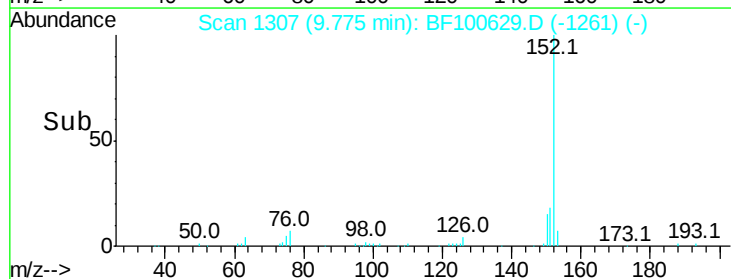
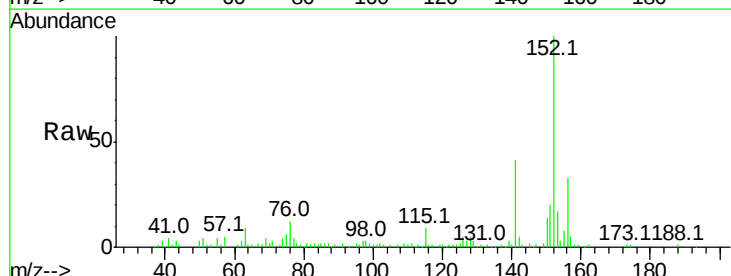
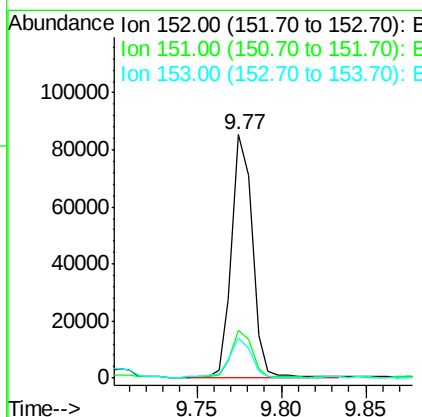
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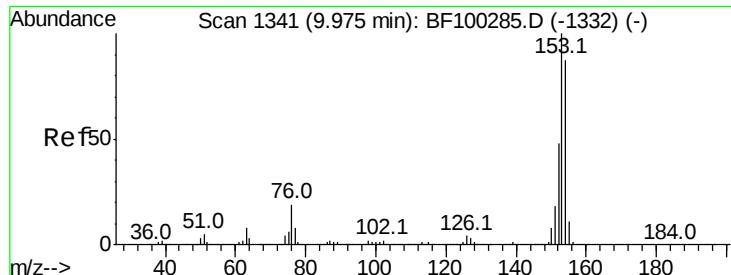
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#48
 Acenaphthylene
 Concen: 3.619 ng
 RT: 9.77 min Scan# 1307
 Delta R.T. -0.03 min
 Lab File: BF100629.D
 Acq: 16 Nov 2017 14:37

Tgt Ion	Ratio	Lower	Upper
152	100		
151	19.7	16.3	24.5
153	16.7	10.7	16.1#





#51

Acenaphthene

Concen: 18.951 ng

RT: 9.95 min Scan# 1337

Delta R.T. -0.02 min

Lab File: BF100629.D

Acq: 16 Nov 2017 14:37

Instrument :

BNA_F

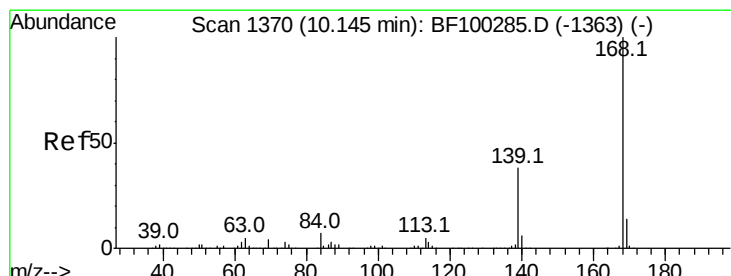
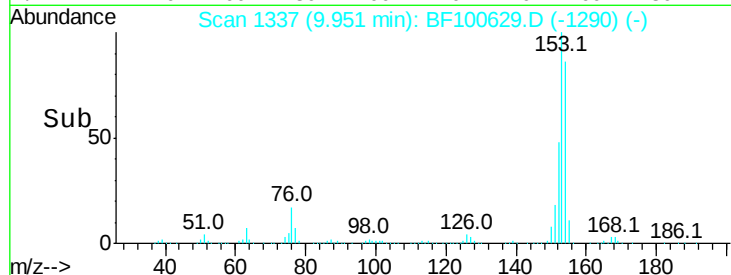
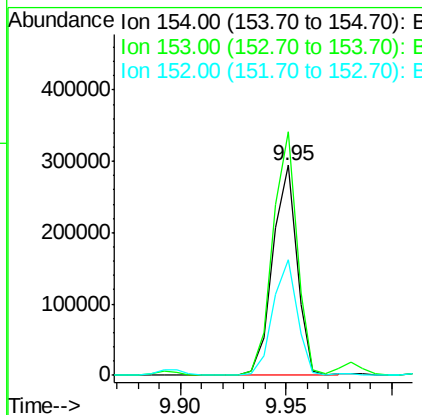
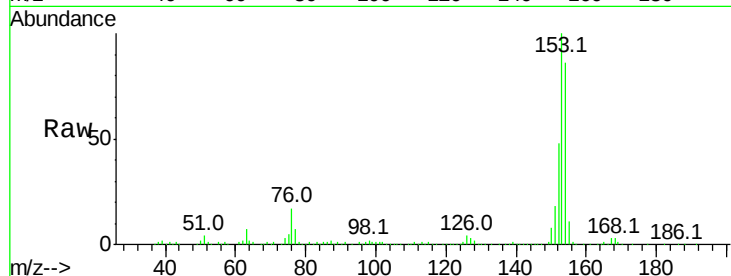
ClientSampleId :

HR-04-111317-A

Tot Ion:	154	Resp:	237321
Ion Ratio	Lower	Upper	
154	100		
153	116.1	91.2	136.8
152	55.1	43.8	65.8

Manual Integrations
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#54

Dibenzofuran

Concen: 15.646 ng

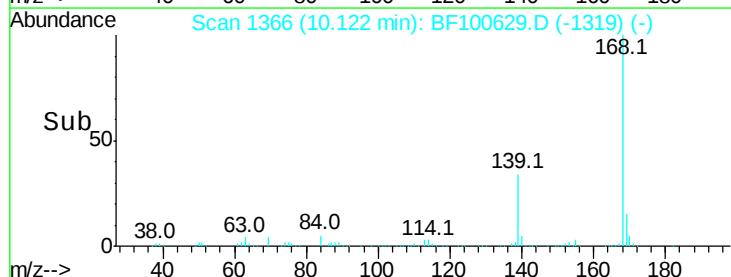
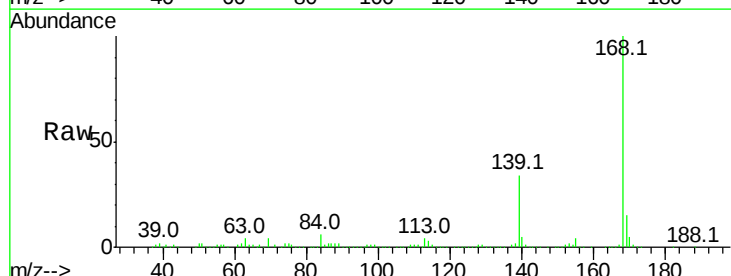
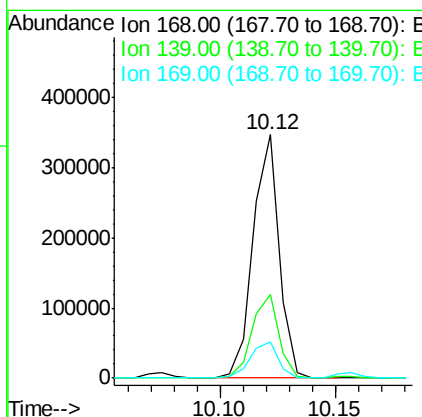
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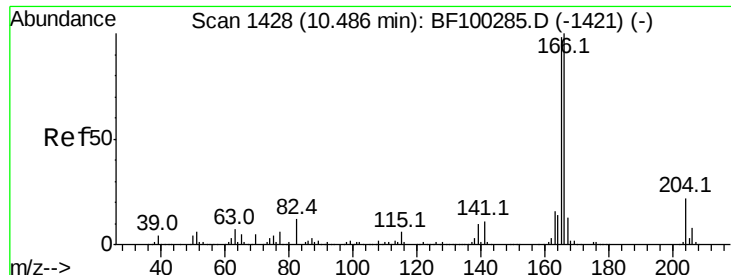
Delta R.T. -0.02 min

Lab File: BF100629.D

Acq: 16 Nov 2017 14:37

Tgt Ion:	168	Resp:	274612
Ion Ratio	Lower	Upper	
168	100		
139	34.4	30.1	45.1
169	14.7	10.9	16.3





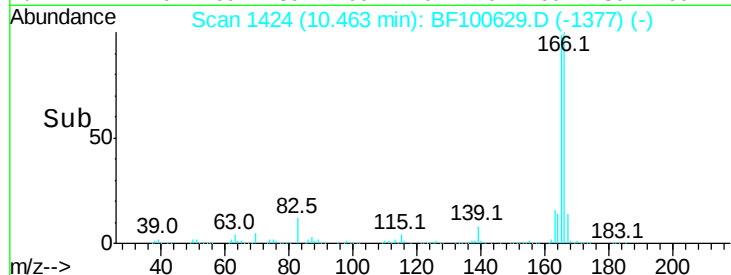
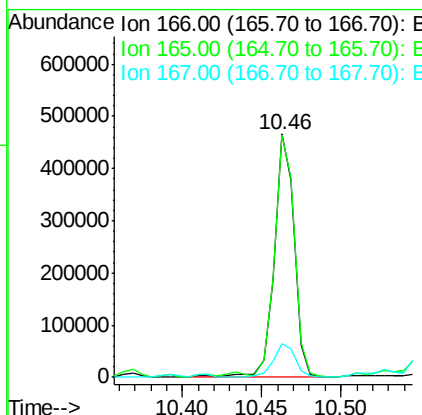
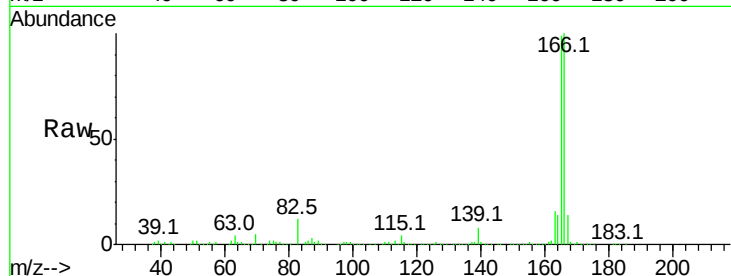
#57
Fluorene
 Concen: 31.573 ng
 RT: 10.46 min Scan# 1424
 Delta R.T. -0.02 min
 Lab File: BF100629.D
 Acq: 16 Nov 2017 14:37

Instrument :
 BNA_F
 ClientSampleId :
 HR-04-111317-A

Tot Ion	Ratio	Resp	Lower	Upper
166	100	405958		
165	99.3	79.8	119.8	
167	13.8	10.6	16.0	

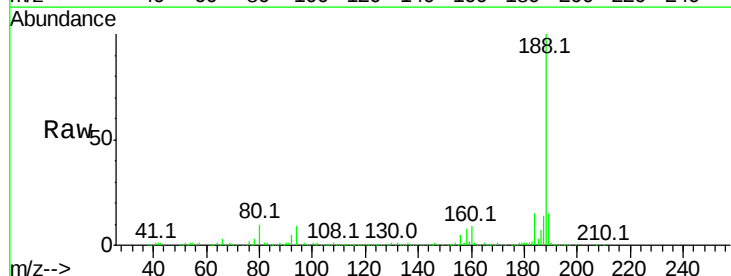
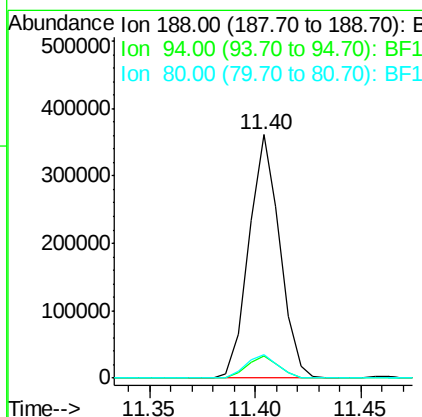
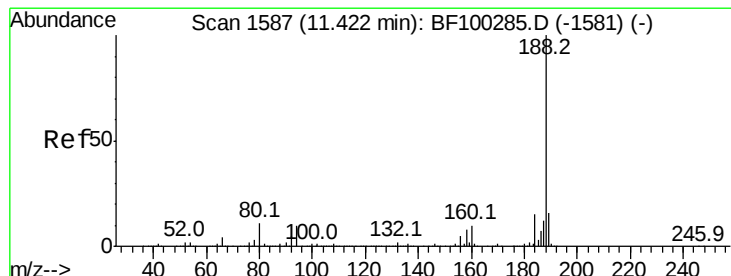
Manual Integrations
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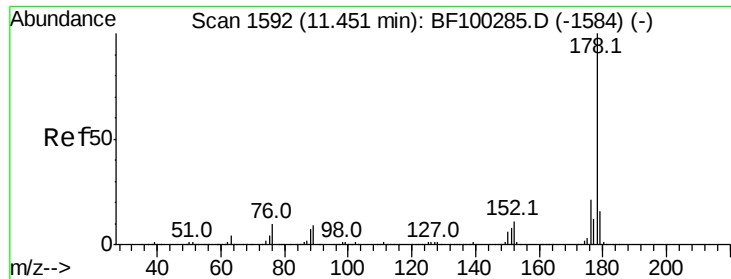
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 11/17/2017 1:24:43 PM



#63
Phenanthrene-d10
 Concen: 20.000 ng
 RT: 11.40 min Scan# 1584
 Delta R.T. -0.02 min
 Lab File: BF100629.D
 Acq: 16 Nov 2017 14:37

Tgt Ion	Ratio	Resp	Lower	Upper
188	100	365257		
94	9.0	8.5	12.7	
80	9.8	9.2	13.8	





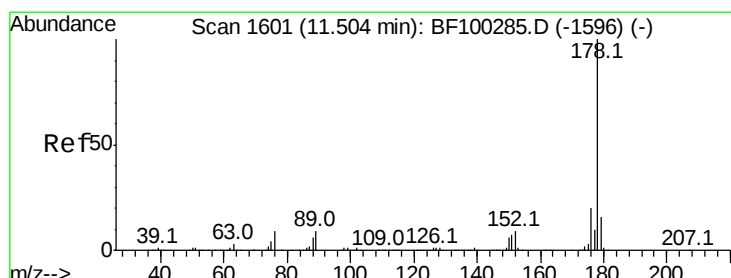
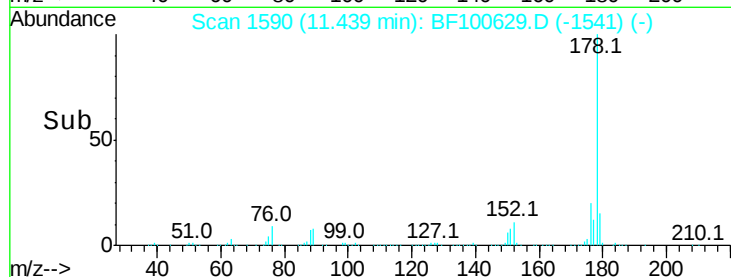
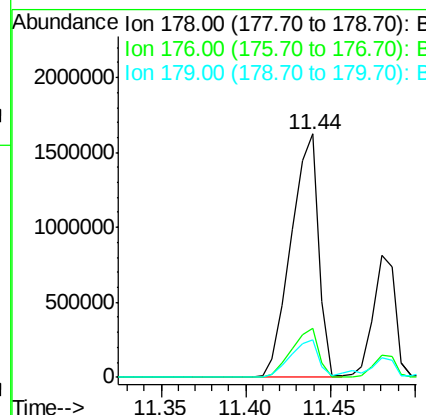
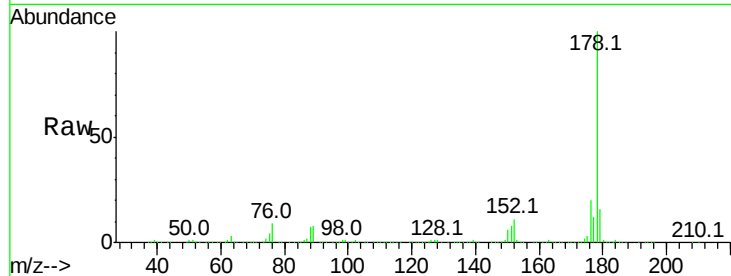
#70
Phenanthrene
Concen: 95.394 ng
RT: 11.44 min Scan# 1590
Delta R.T. -0.01 min
Lab File: BF100629.D
Acq: 16 Nov 2017 14:37

Instrument :
BNA_F
ClientSampleId :
HR-04-111317-A

Tot Ion:178 Resp: 1834553
Ion Ratio Lower Upper
178 100
176 20.1 15.8 23.8
179 15.5 13.0 19.6

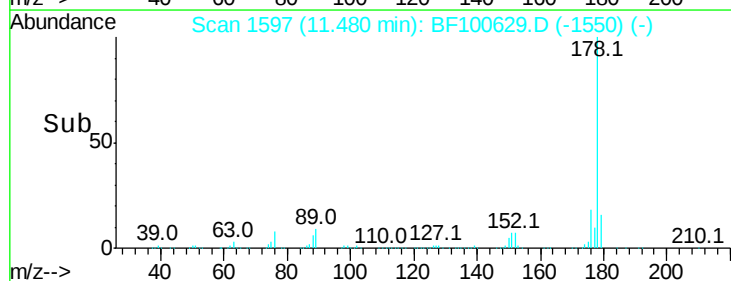
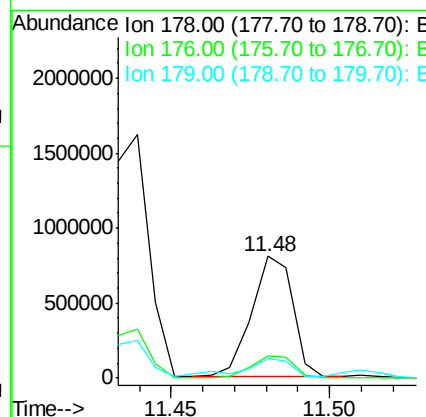
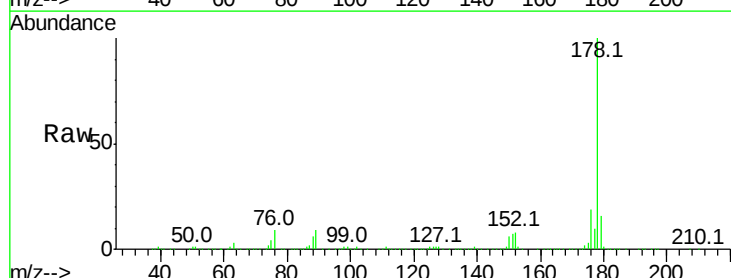
Manual Integrations
APPROVED

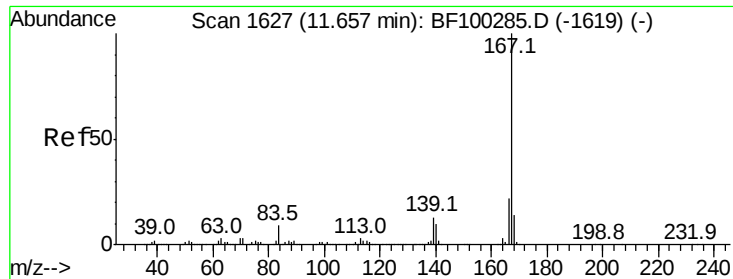
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11/17/2017 1:24:43 PM



#71
Anthracene
Concen: 36.901 ng
RT: 11.48 min Scan# 1597
Delta R.T. -0.02 min
Lab File: BF100629.D
Acq: 16 Nov 2017 14:37

Tgt Ion:178 Resp: 719973
Ion Ratio Lower Upper
178 100
176 18.6 15.4 23.2
179 15.8 12.6 19.0





#72

Carbazole

Concen: 9.001 ng

RT: 11.63 min Scan# 1622

Delta R.T. -0.03 min

Lab File: BF100629.D

Acq: 16 Nov 2017 14:37

Instrument :

BNA_F

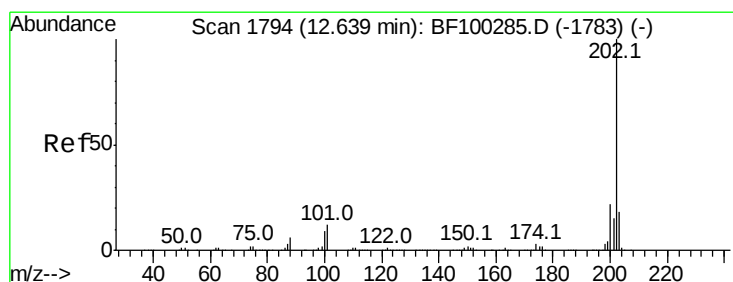
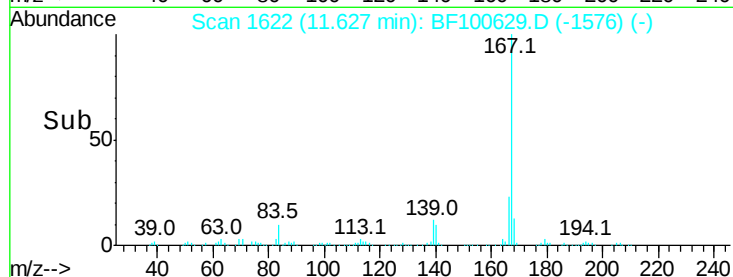
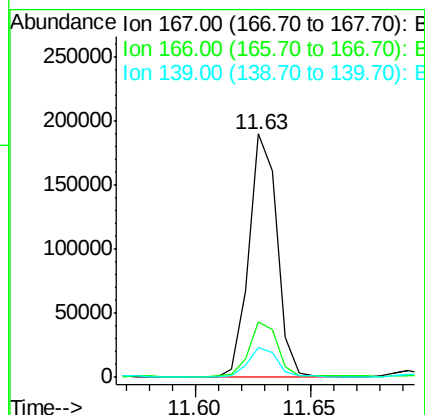
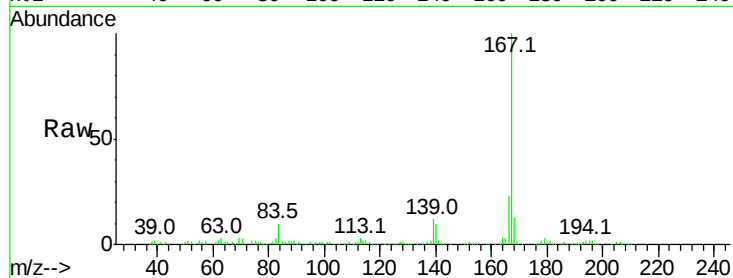
ClientSampleId :

HR-04-111317-A

Tot Ion:	167	Resp:	162048
Ion Ratio	Lower	Upper	
167	100		
166	22.7	17.6	26.4
139	12.4	10.9	16.3

Manual Integrations
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#74

Fluoranthene

Concen: 83.253 ng

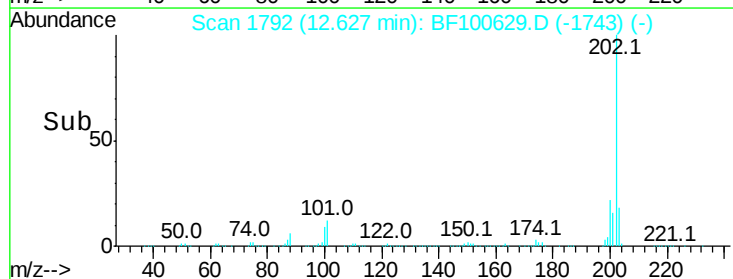
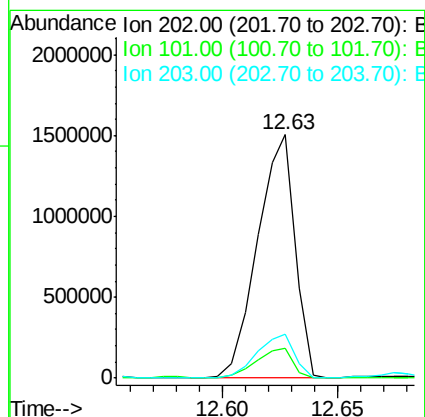
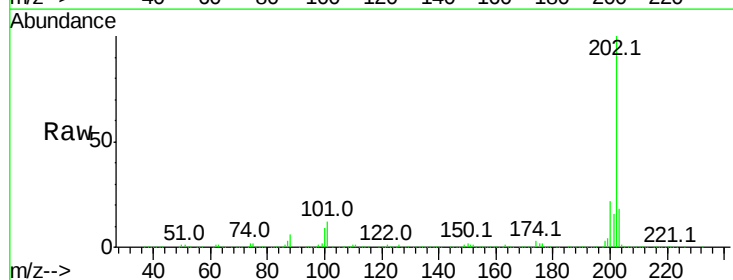
RT: 12.63 min Scan# 1792

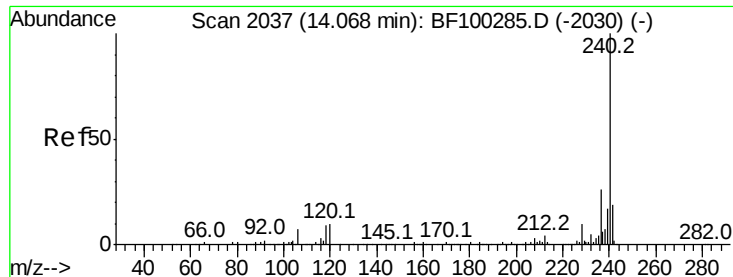
Delta R.T. -0.01 min

Lab File: BF100629.D

Acq: 16 Nov 2017 14:37

Tgt Ion:	202	Resp:	1696817
Ion Ratio	Lower	Upper	
202	100		
101	12.1	0.0	34.1
203	17.9	0.0	38.1





#75

Chrysene-d12

Concen: 20.000 ng

RT: 14.04 min Scan# 2033

Delta R.T. -0.02 min

Lab File: BF100629.D

Acq: 16 Nov 2017 14:37

Instrument :

BNA_F

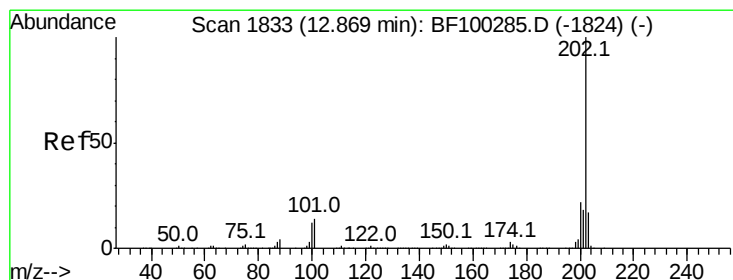
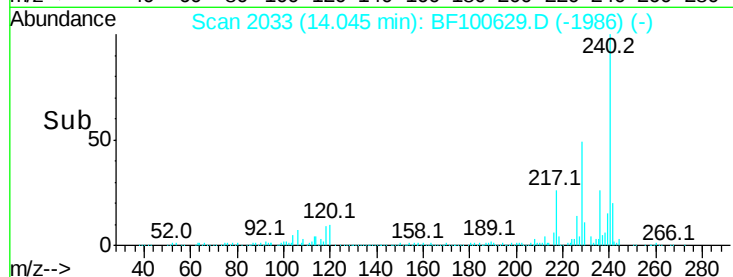
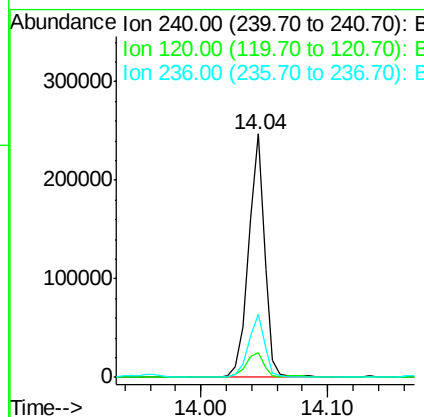
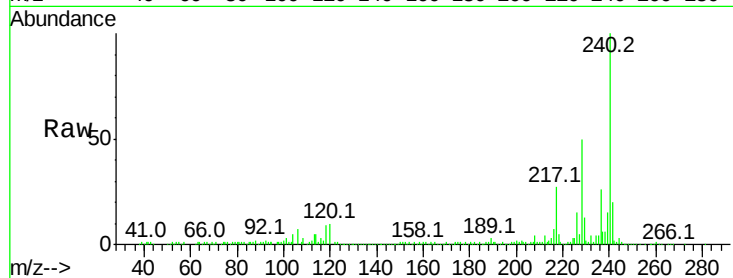
ClientSampleId :

HR-04-111317-A

Tot Ion:	240	Resp:	214264
Ion Ratio	Lower	Upper	
240	100		
120	10.4	9.5	14.3
236	25.8	20.7	31.1

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#77

Pyrene

Concen: 97.068 ng

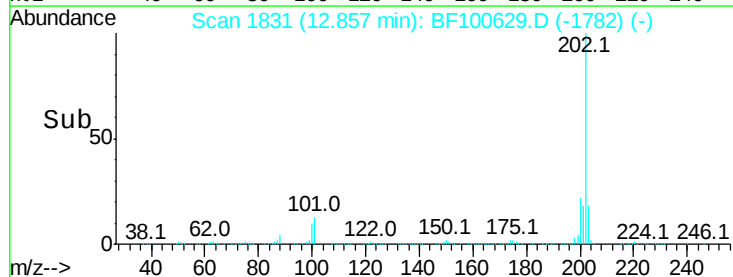
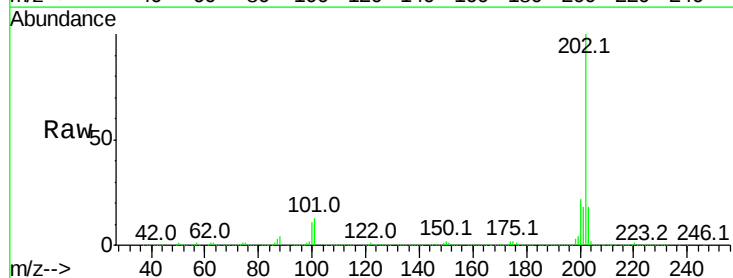
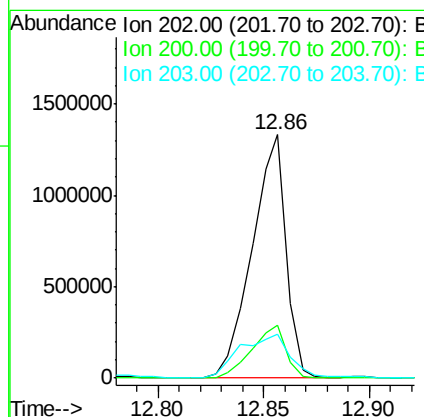
RT: 12.86 min Scan# 1831

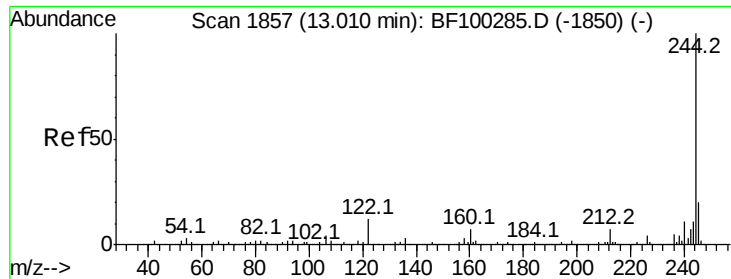
Delta R.T. -0.01 min

Lab File: BF100629.D

Acq: 16 Nov 2017 14:37

Tgt Ion:	202	Resp:	1482569
Ion Ratio	Lower	Upper	
202	100		
200	21.6	17.4	26.2
203	17.8	14.3	21.5





#78

Terphenyl-d14

Concen: 10.987 ng

RT: 12.98 min Scan# 1852

Delta R.T. -0.03 min

Lab File: BF100629.D

Acq: 16 Nov 2017 14:37

Instrument :

BNA_F

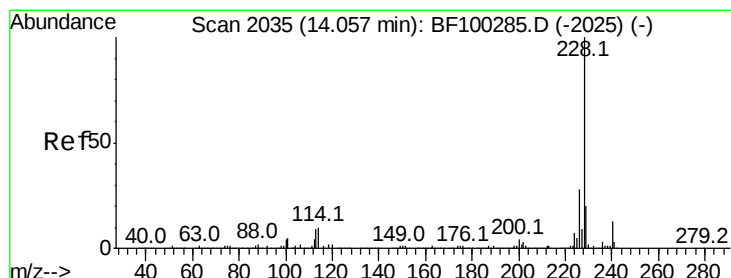
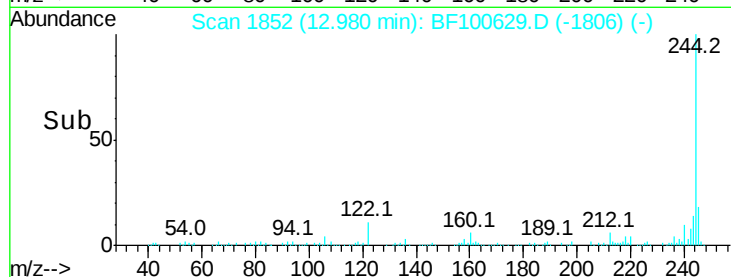
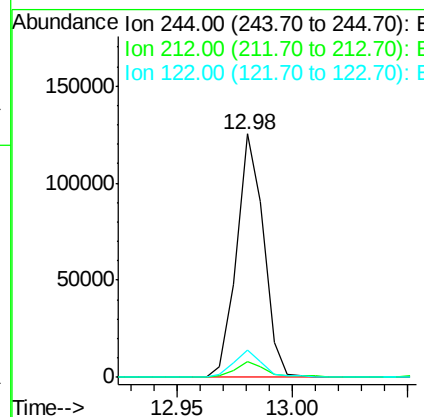
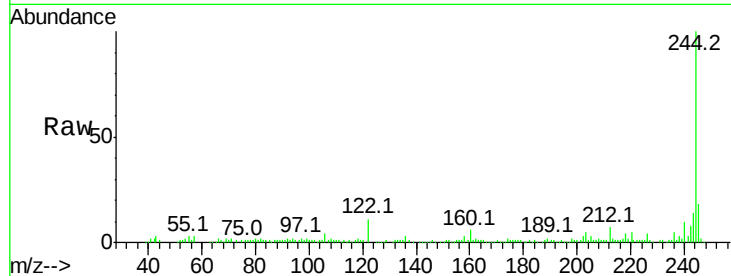
ClientSampleId :

HR-04-111317-A

Tot Ion:	244	Resp:	102456
Ion Ratio	Lower	Upper	
244	100		
212	6.5	5.4	8.0
122	11.1	11.0	16.4

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#80

Benzo(a)anthracene

Concen: 57.699 ng

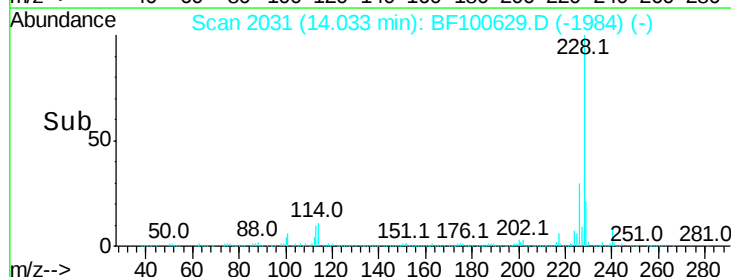
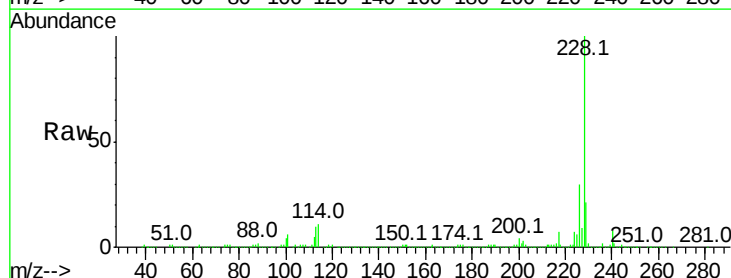
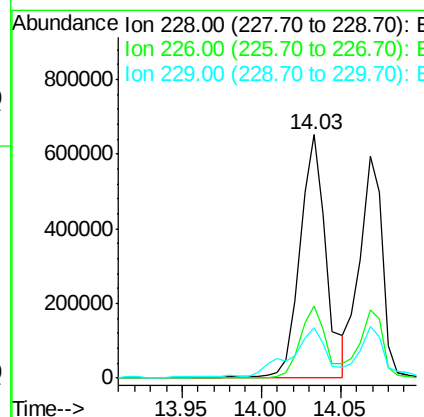
RT: 14.03 min Scan# 2031

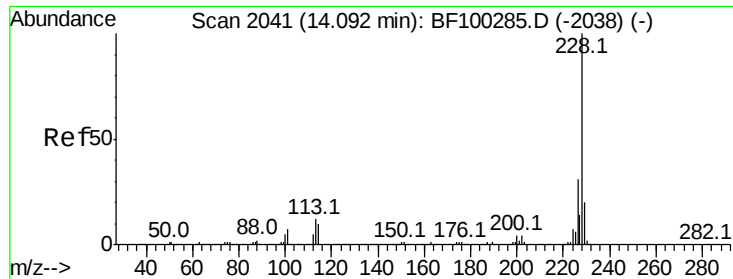
Delta R.T. -0.02 min

Lab File: BF100629.D

Acq: 16 Nov 2017 14:37

Tgt Ion:	228	Resp:	744489
Ion Ratio	Lower	Upper	
228	100		
226	29.7	22.6	33.8
229	20.9	15.8	23.6





#82

Chrysene

Concen: 47.577 ng

RT: 14.07 min Scan# 2037

Delta R.T. -0.02 min

Lab File: BF100629.D

Acq: 16 Nov 2017 14:37

Instrument :

BNA_F

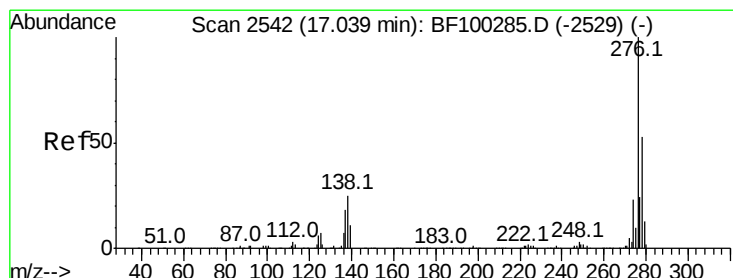
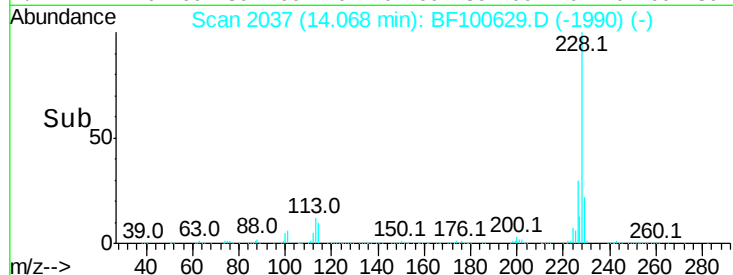
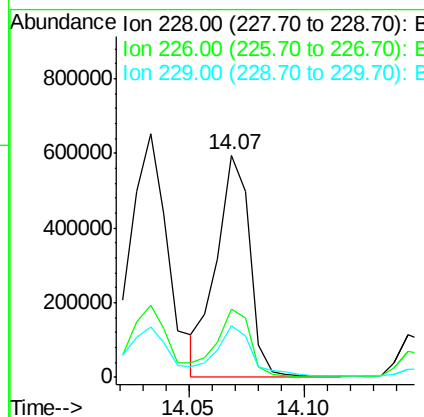
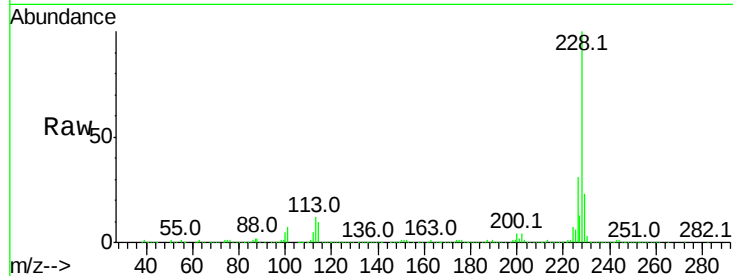
ClientSampleId :

HR-04-111317-A

Tot Ion:	228	Resp:	594460
Ion Ratio	Lower	Upper	
228	100		
226	30.7	25.0	37.6
229	23.2	16.2	24.4

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#85

Indeno(1,2,3-cd)pyrene

Concen: 35.731 ng m

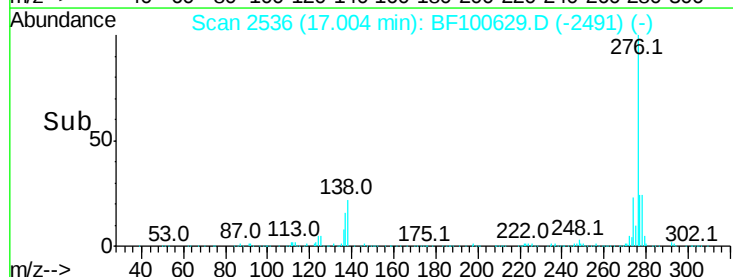
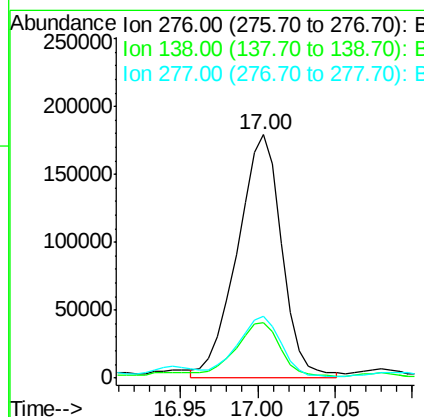
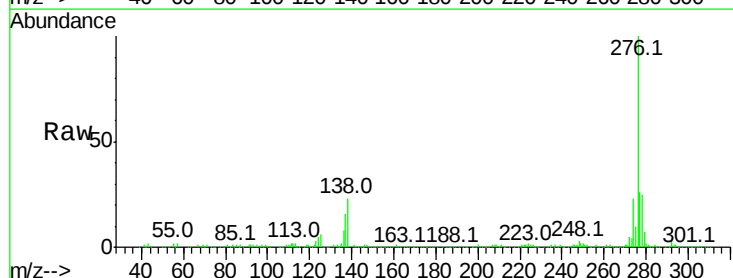
RT: 17.00 min Scan# 2536

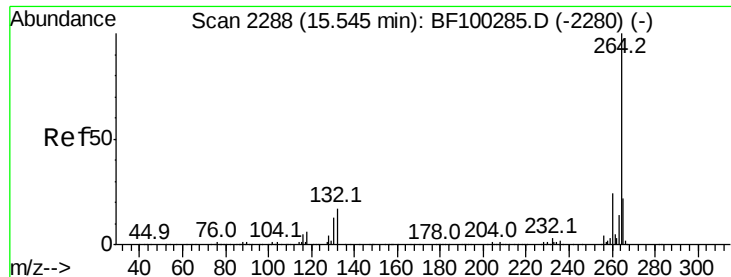
Delta R.T. -0.04 min

Lab File: BF100629.D

Acq: 16 Nov 2017 14:37

Tgt Ion:	276	Resp:	361106
Ion Ratio	Lower	Upper	
276	100		
138	4.9	25.0	37.6#
277	4.7	20.1	30.1#





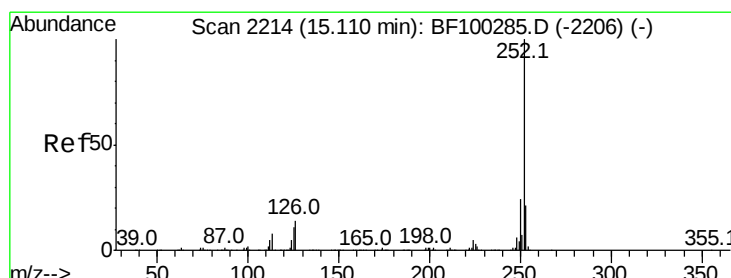
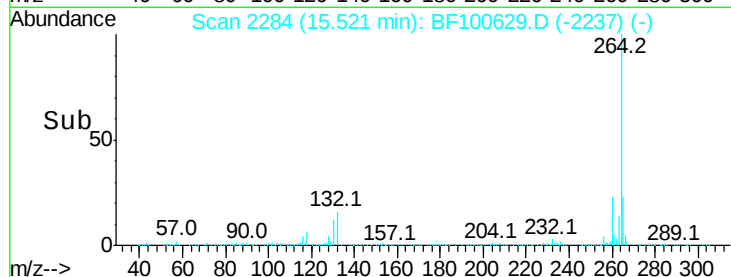
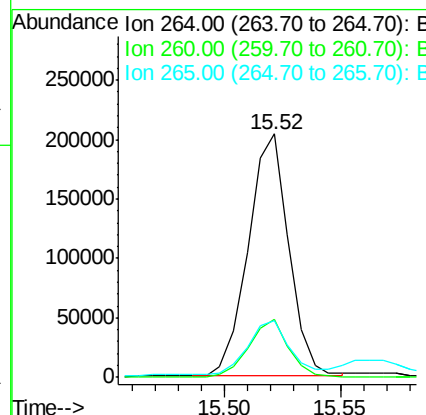
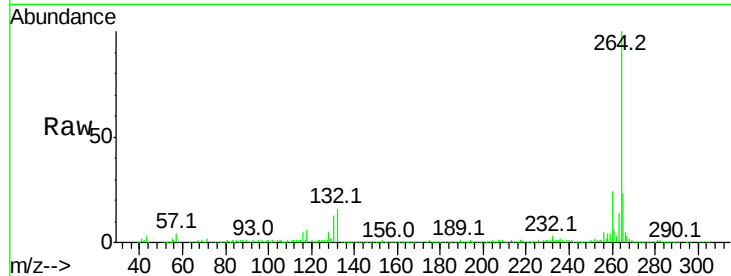
#86
Pervlene-d12
Concen: 20.000 ng
RT: 15.52 min Scan# 2284
Delta R.T. -0.02 min
Lab File: BF100629.D
Acq: 16 Nov 2017 14:37

Instrument :
BNA_F
ClientSampleId :
HR-04-111317-A

Tot Ion	Ratio	Lower	Upper
264	100		
260	23.6	19.2	28.8
265	23.2	17.5	26.3

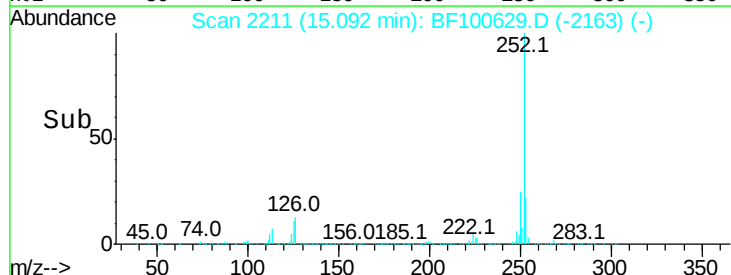
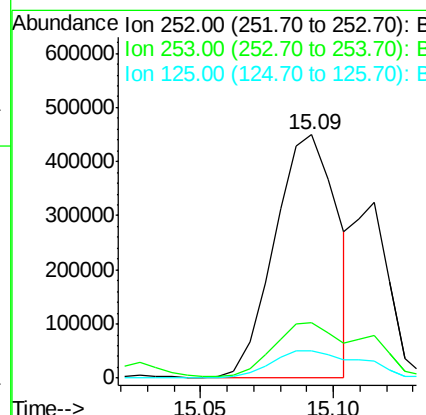
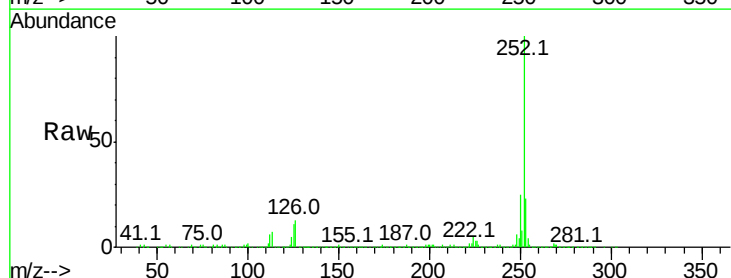
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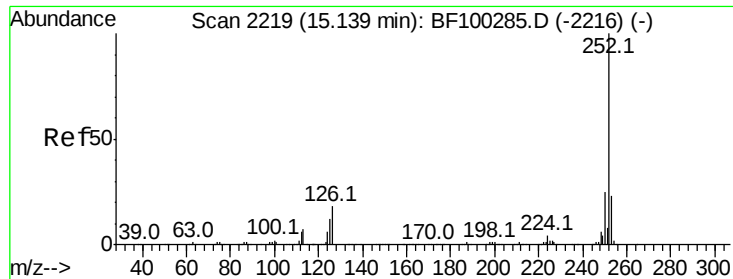
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11/17/2017 1:24:43 PM



#87
Benzo(b)fluoranthene
Concen: 49.590 ng m
RT: 15.09 min Scan# 2211
Delta R.T. -0.02 min
Lab File: BF100629.D
Acq: 16 Nov 2017 14:37

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.7	17.0	25.6
125	11.2	9.0	13.6





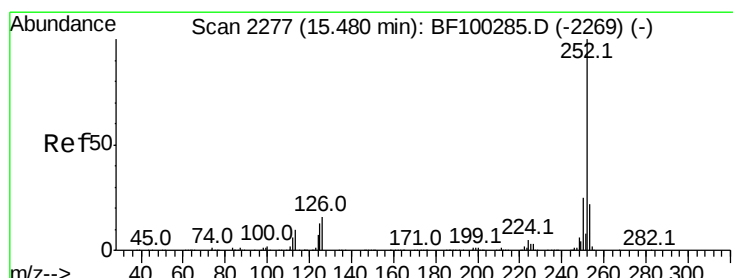
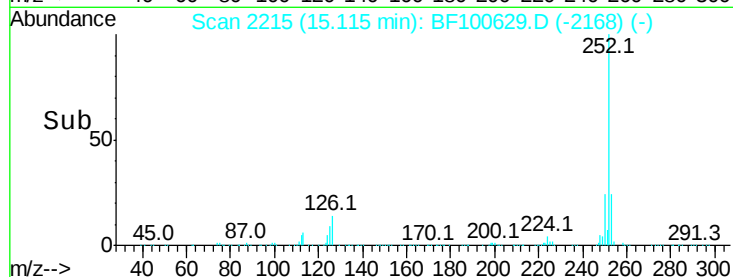
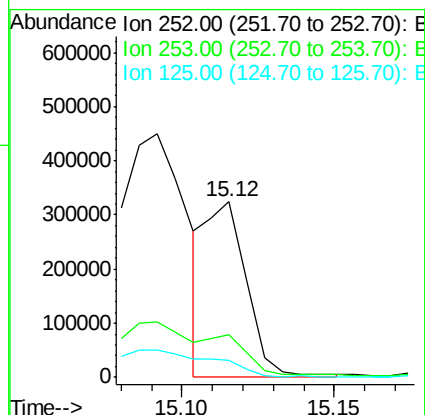
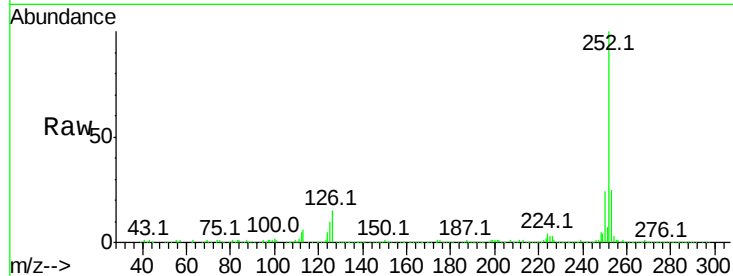
#88
Benzo(k)fluoranthene
Concen: 21.617 ng m
RT: 15.12 min Scan# 2215
Delta R.T. -0.02 min
Lab File: BF100629.D
Acq: 16 Nov 2017 14:37

Instrument :
BNA_F
ClientSampleId :
HR-04-111317-A

Tot Ion	Ratio	Lower	Upper
252	100		
253	24.6	17.9	26.9
125	9.9	10.2	15.2#

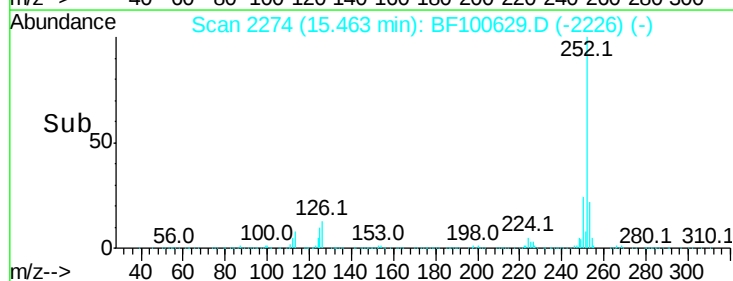
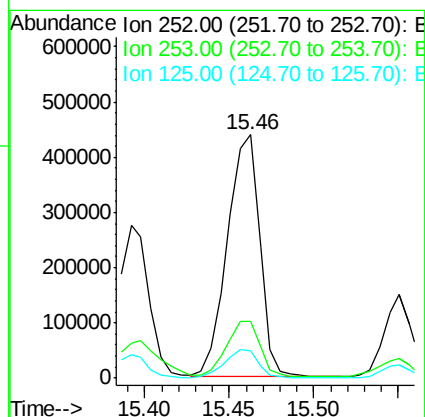
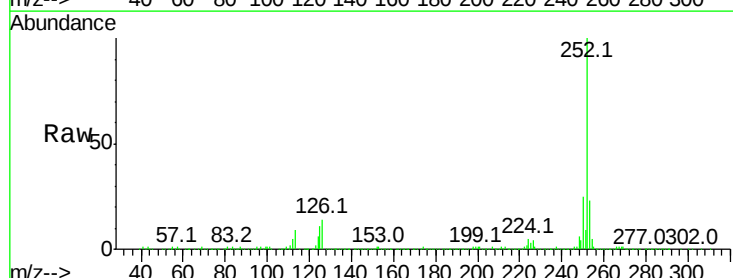
Manual Integrations
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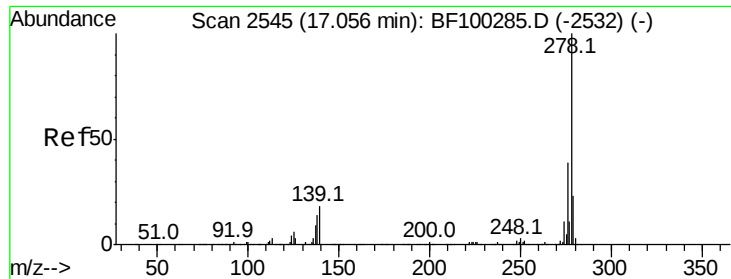
SOHIL
11/17/2017 1:24:43 PM



#89
Benzo(a)pyrene
Concen: 44.732 ng
RT: 15.46 min Scan# 2274
Delta R.T. -0.02 min
Lab File: BF100629.D
Acq: 16 Nov 2017 14:37

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.2	17.1	25.7
125	11.0	9.8	14.6





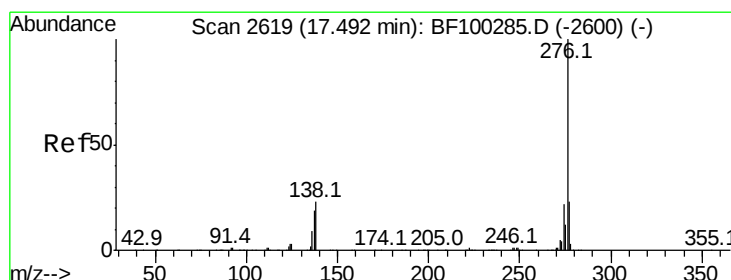
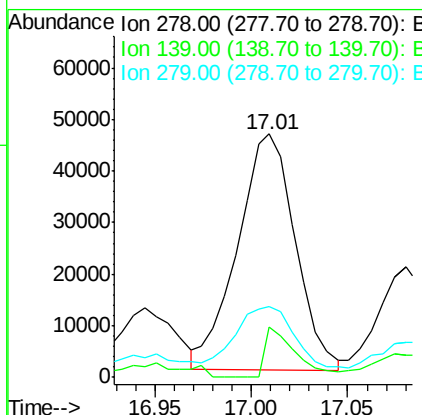
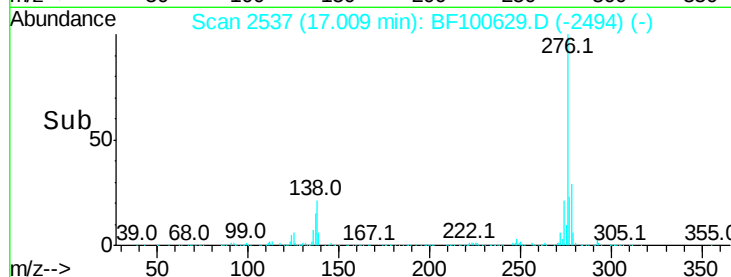
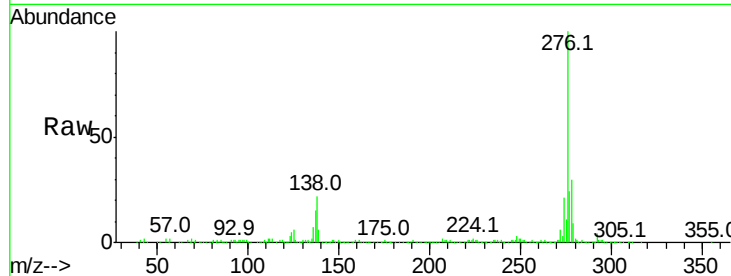
#90
Dibenzo(a,h)anthracene
Concen: 8.875 ng m
RT: 17.01 min Scan# 2537
Delta R.T. -0.05 min
Lab File: BF100629.D
Acq: 16 Nov 2017 14:37

Instrument :
BNA_F
ClientSampleId :
HR-04-111317-A

Tot Ion	Ratio	Lower	Upper
278	100		
139	20.7	15.9	23.9
279	29.1	19.0	28.4

Manual Integrations
APPROVED

SOHIL
11/17/2017 1:24:43 PM



#91
Benzo(g,h,i)perylene
Concen: 29.657 ng
RT: 17.46 min Scan# 2613
Delta R.T. -0.04 min
Lab File: BF100629.D
Acq: 16 Nov 2017 14:37

Tgt Ion	Ratio	Lower	Upper
276	100		
277	24.2	17.9	26.9
138	22.4	21.8	32.8

