

Data Path : \\74.0.250.170\SV0ASRV\HPCHEM1\BNA F\DATA\BF033018\
 Data File : BF104095.D
 Acq On : 30 Mar 2018 16:27
 Operator : JU/SJ
 Sample : J2139-10 50X
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 PAD-1

Manual Integrations
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Sohil
 4/2/2018 5:05:34 PM

Quant Time: Mar 30 17:32:08 2018
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF032818.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Mar 30 17:20:53 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.96	152	104087	20.00	ng	0.00
21) Naphthalene-d8	8.24	136	439170	20.00	ng	0.00
38) Acenaphthene-d10	9.99	164	224213	20.00	ng	0.00
63) Phenanthrene-d10	11.49	188	394729	20.00	ng	0.00
75) Chrysene-d12	14.15	240	283893	20.00	ng	0.00
86) Perylene-d12	15.69	264	253799	20.00	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.67	112	1948	0.30	ng	0.09
7) Phenol-d6	6.63	99	15648m	1.95	ng	0.04
23) Nitrobenzene-d5	7.55	82	3404	0.47	ng	0.02
41) 2,4,6-Tribromophenol	10.79	330	3813	1.53	ng	0.00
44) 2-Fluorobiphenyl	9.31	172	20482	1.44	ng	0.00
78) Terphenyl-d14	13.07	244	24948	2.03	ng	0.00
Target Compounds						Qvalue
31) Naphthalene	8.27	128	2761672	128.719	ng	99
37) 2-Methylnaphthalene	8.95	142	603395	42.696	ng	98
45) 1,1'-Biphenyl	9.41	154	157084	8.163	ng	99
48) Acenaphthylene	9.86	152	543011	23.613	ng	100
51) Acenaphthene	10.03	154	148682	11.176	ng	100
54) Dibenzofuran	10.20	168	380333	19.578	ng	99
57) Fluorene	10.55	166	554428	34.598	ng	100
70) Phenanthrene	11.53	178	2018219	94.437	ng	99
71) Anthracene	11.57	178	856724	38.379	ng	99
72) Carbazole	11.73	167	201004	9.434	ng	99
74) Fluoranthene	12.72	202	1515401	66.710	ng	99
77) Pylene	12.95	202	1435692	70.350	ng	100
80) Benzo(a)anthracene	14.14	228	604255m	34.016	ng	
82) Chrysene	14.17	228	497457	28.592	ng	98
85) Indeno(1,2,3-cd)pyrene	17.26	276	187879	10.421	ng	# 88
87) Benzo(b)fluoranthene	15.23	252	431274m	27.921	ng	
88) Benzo(k)fluoranthene	15.25	252	201041m	13.817	ng	
89) Benzo(a)pyrene	15.62	252	393784	27.511	ng	97
90) Dibenzo(a,h)anthracene	17.27	278	46085m	3.482	ng	
91) Benzo(a,h,i)perylene	17.74	276	176503	13.316	ng	94

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

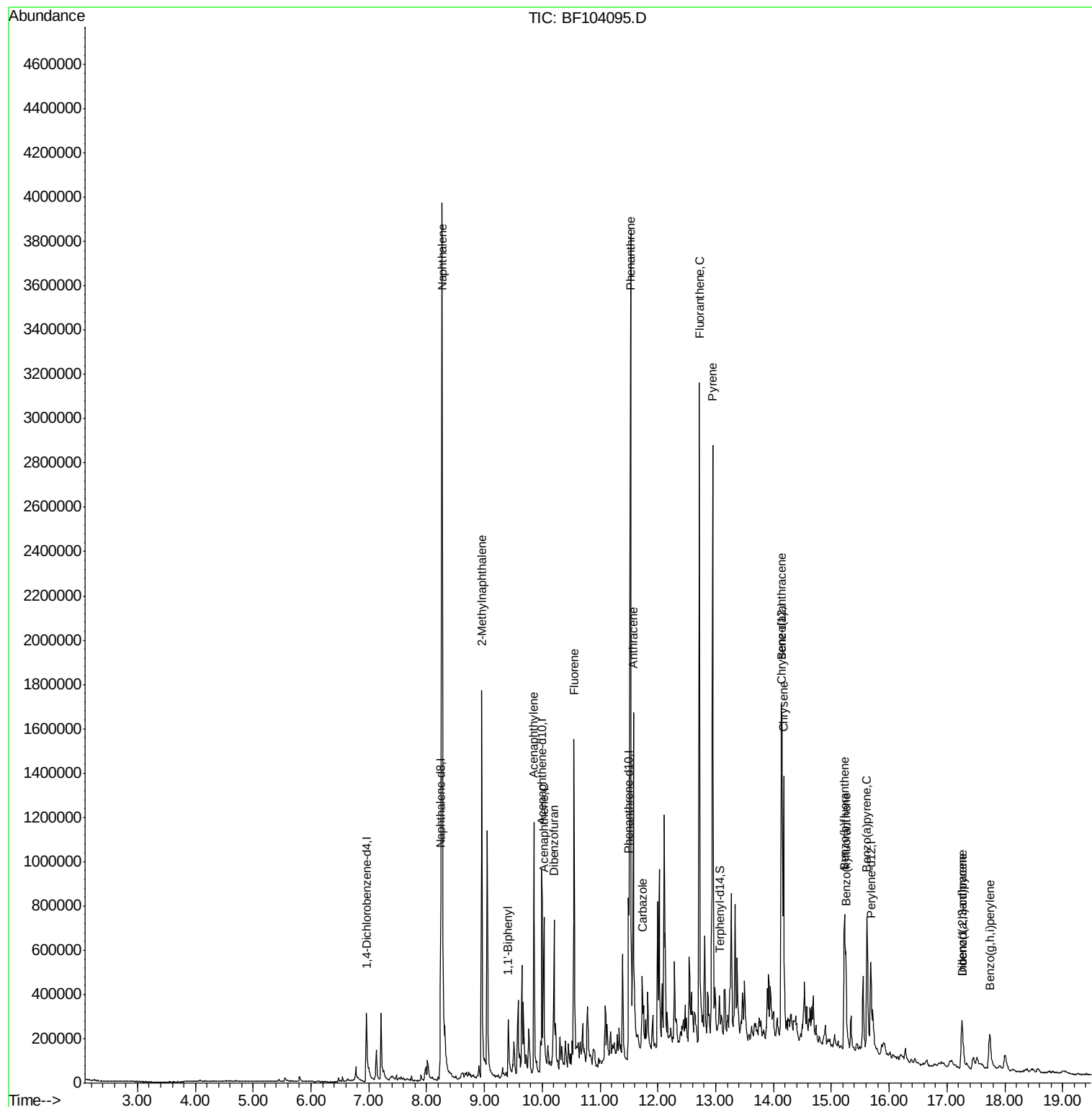
Data Path : \\74.0.250.170\SV0ASRV\HPCHEM1\BNA F\DATA\BF033018\
Data File : BF104095.D
Acq On : 30 Mar 2018 16:27
Operator : JU/SJ
Sample : J2139-10 50X
Misc :
ALS Vial : 4 Sample Multiplier: 1

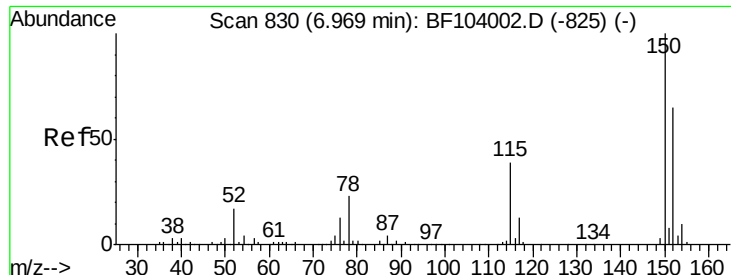
Instrument :
BNA_F
ClientSampleId :
PAD-1

Manual Integrations
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Quant Time: Mar 30 17:32:08 2018
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF032818.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
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Response via : Initial Calibration





#1

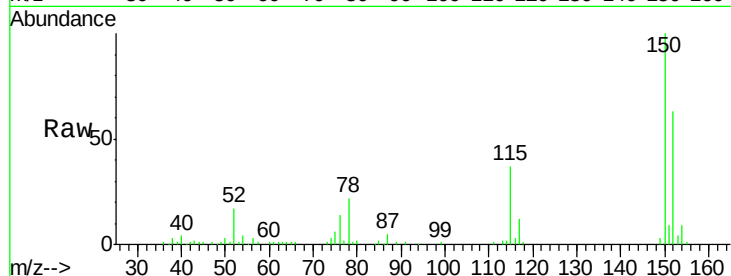
1,4-Dichlorobenzene-d4
 Concen: 20.000 ng
 RT: 6.96 min Scan# 828
 Delta R.T. -0.01 min
 Lab File: BF104095.D
 Acq: 30 Mar 2018 16:27

Instrument :
 BNA_F
 ClientSampled :
 PAD-1

Tot Ion	Ratio	Lower	Upper
152	100		
150	158.7	124.6	186.8
115	58.8	50.1	75.1

Manual Integrations
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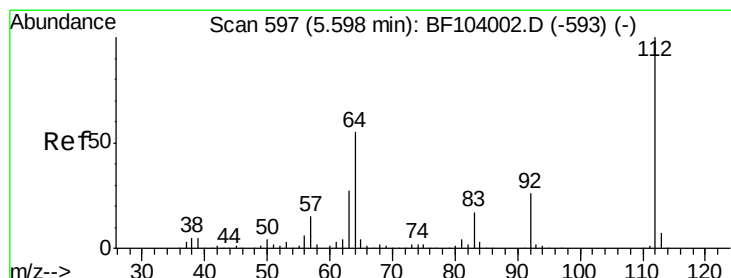
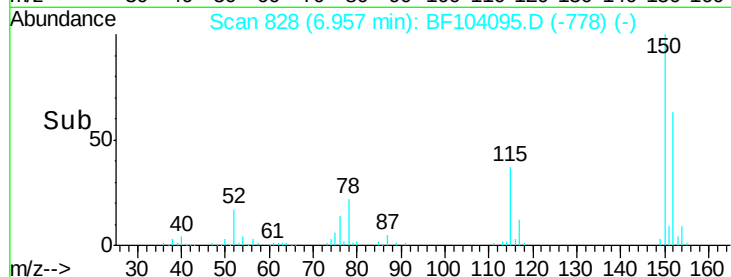
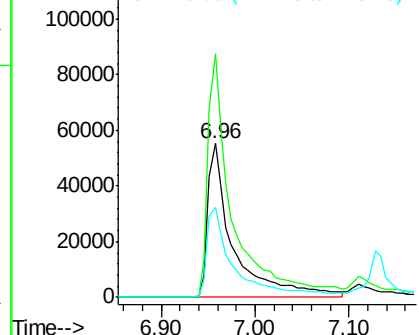


Abundance

Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

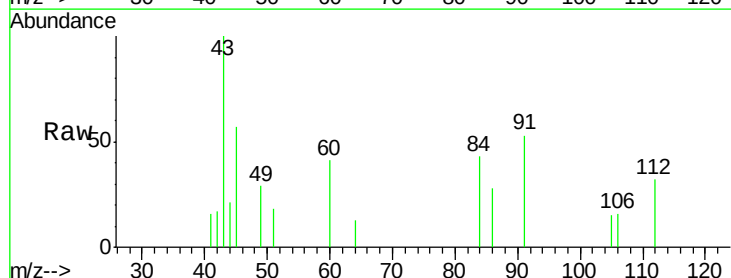
Ion 115.00 (114.70 to 115.70): E



#5

2-Fluorophenol
 Concen: 0.298 ng
 RT: 5.67 min Scan# 609
 Delta R.T. 0.09 min
 Lab File: BF104095.D
 Acq: 30 Mar 2018 16:27

Tgt Ion	Ratio	Lower	Upper
112	100		
64	42.4	47.9	71.9#
63	0.0	23.7	35.5#

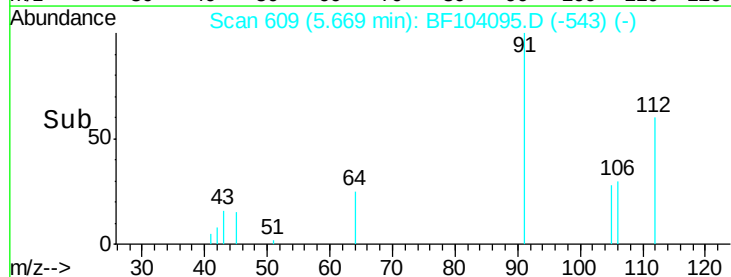
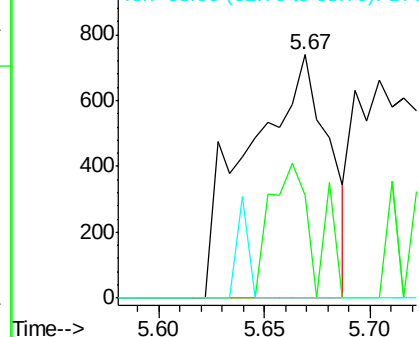


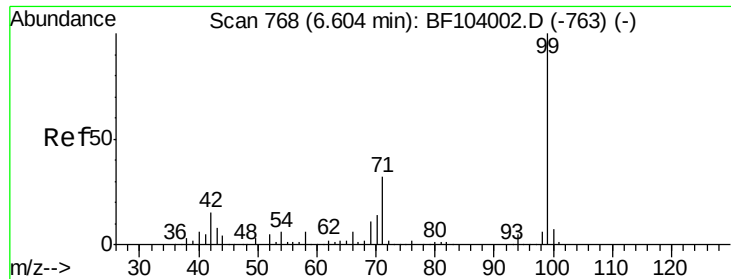
Abundance

Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BF1

Ion 63.00 (62.70 to 63.70): BF1





#7

Phenol-d6

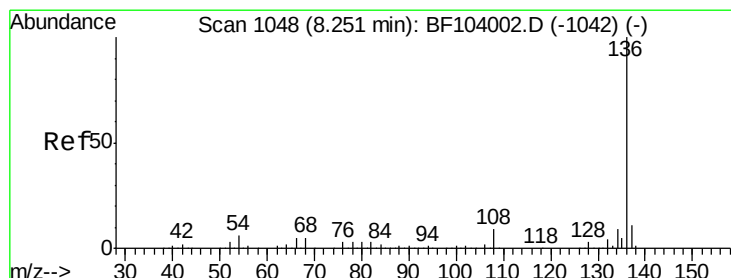
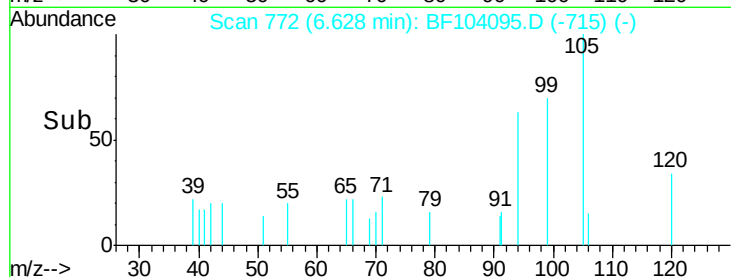
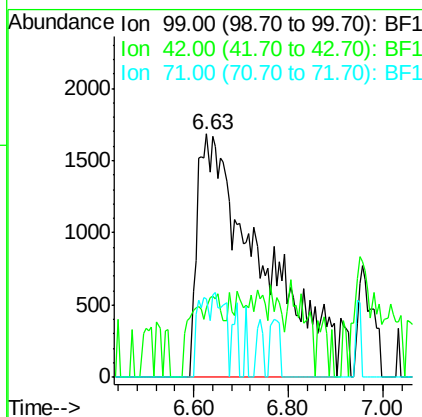
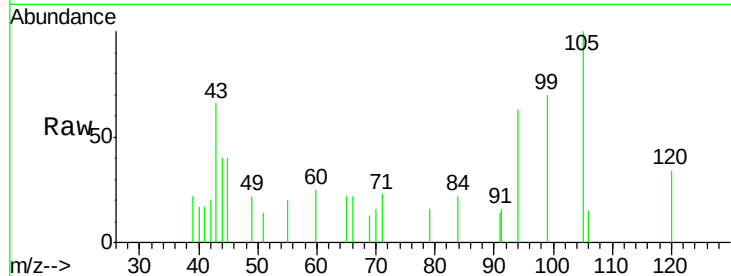
Concen: 1.949 ng/mL
 RT: 6.63 min Scan# 772
 Delta R.T. 0.04 min
 Lab File: BF104095.D
 Acq: 30 Mar 2018 16:27

Instrument :
 BNA_F
 ClientSampled :
 PAD-1

Tot Ion	Ion	Ratio	Lower	Upper
99	100			
42	28.6	14.5	21.7	
71	32.4	25.4	38.0	

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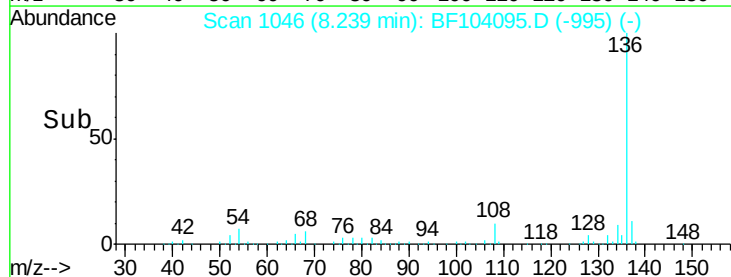
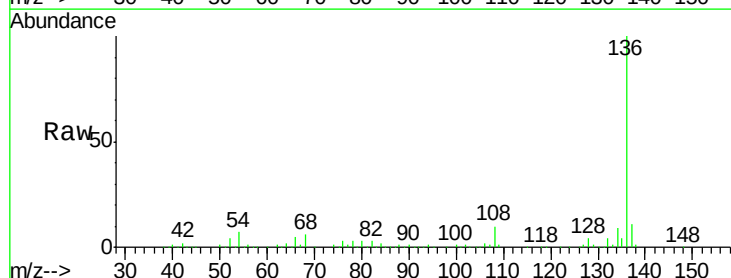
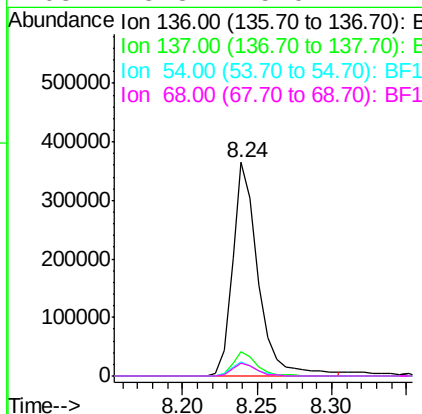


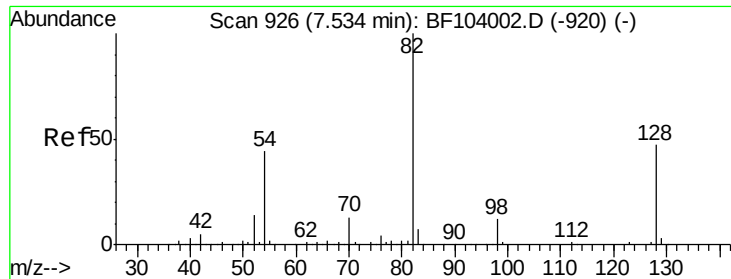
#21

Naphthalene-d8

Concen: 20.000 ng/mL
 RT: 8.24 min Scan# 1046
 Delta R.T. 0.00 min
 Lab File: BF104095.D
 Acq: 30 Mar 2018 16:27

Tgt Ion	Ion	Ratio	Lower	Upper
136	100			
137	11.3	8.9	13.3	
54	6.7	6.6	9.8	
68	5.8	5.0	7.4	





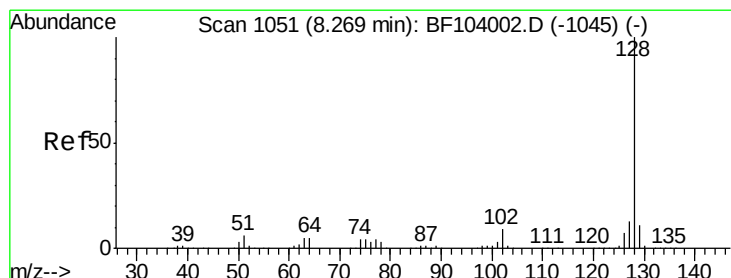
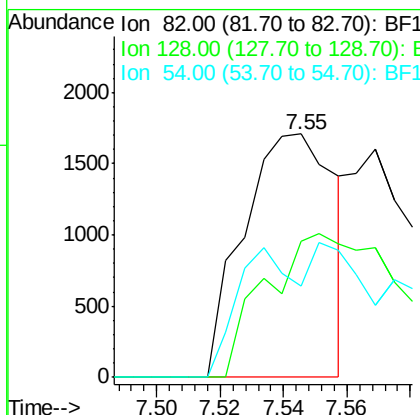
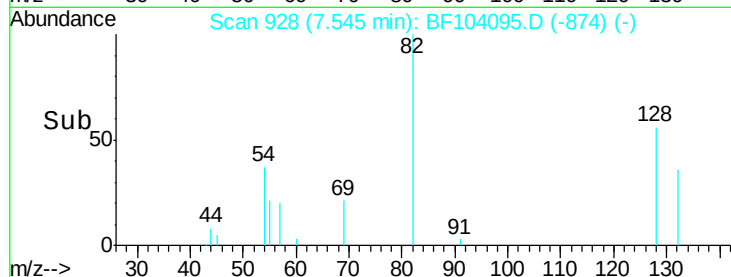
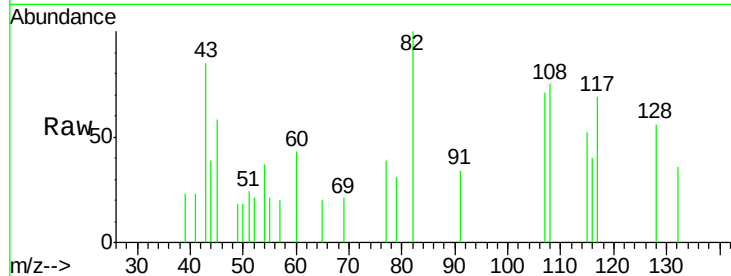
#23
Nitrobenzene-d5
Concen: 0.474 ng
RT: 7.55 min Scan# 928
Delta R.T. 0.02 min
Lab File: BF104095.D
Acq: 30 Mar 2018 16:27

Instrument :
BNA_F
ClientSampled :
PAD-1

Tot Ion	Ratio	Lower	Upper
82	100		
128	55.8	36.1	54.1#
54	37.5	41.4	62.2#

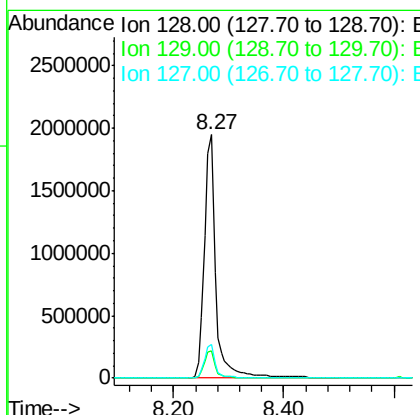
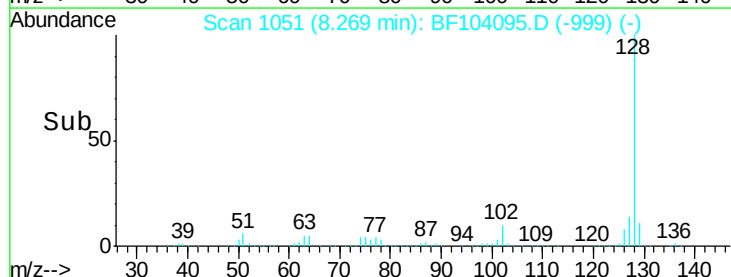
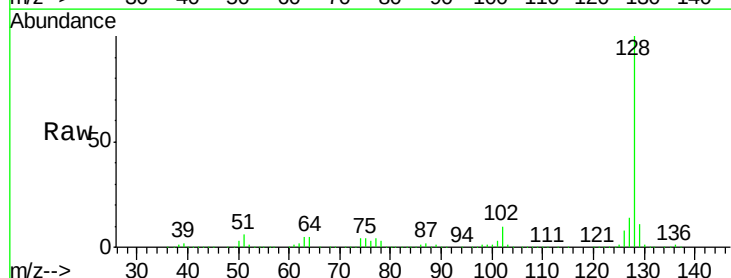
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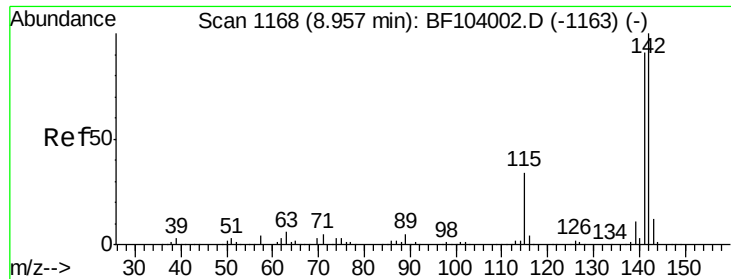
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#31
Naphthalene
Concen: 128.719 ng
RT: 8.27 min Scan# 1051
Delta R.T. 0.01 min
Lab File: BF104095.D
Acq: 30 Mar 2018 16:27

Tgt Ion	Ratio	Lower	Upper
128	100		
129	11.3	8.8	13.2
127	14.1	10.9	16.3





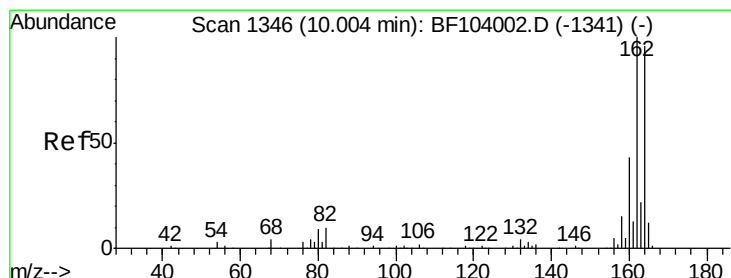
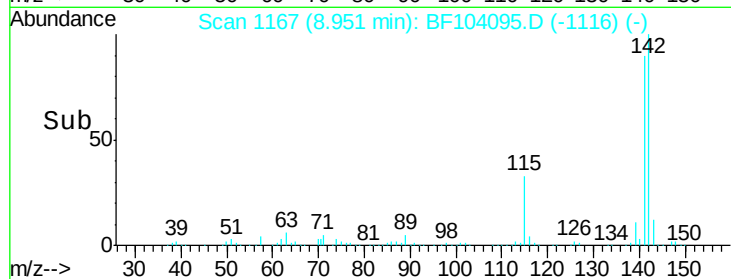
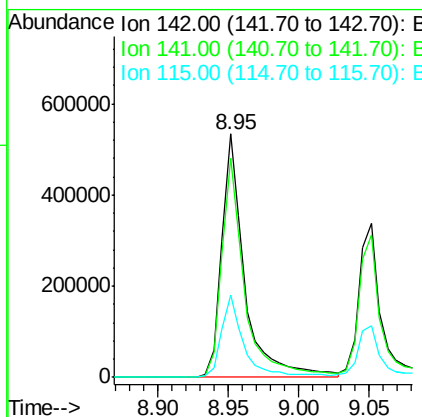
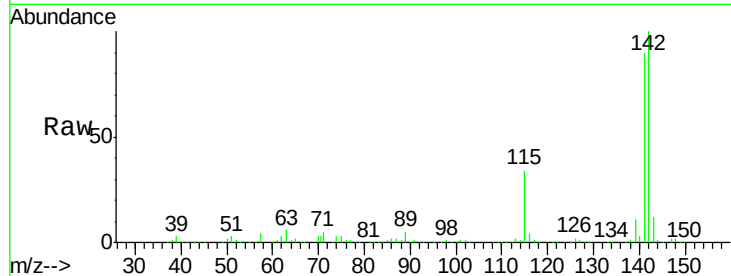
#37
2-Methylnaphthalene
Concen: 42.696 ng
RT: 8.95 min Scan# 1167
Delta R.T. 0.00 min
Lab File: BF104095.D
Acq: 30 Mar 2018 16:27

Instrument :
BNA_F
ClientSampleId :
PAD-1

Tot Ion	Ratio	Lower	Upper
142	100		
141	90.1	70.8	106.2
115	33.6	26.1	39.1

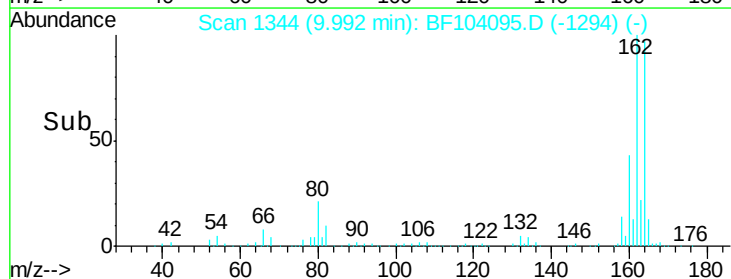
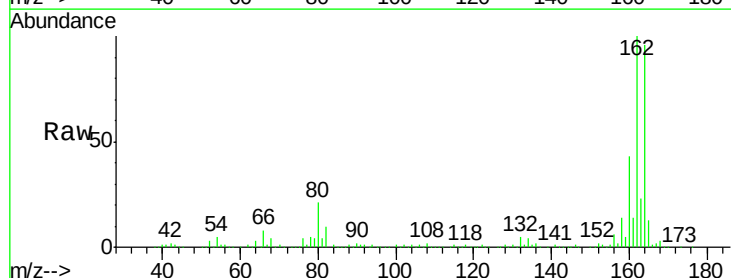
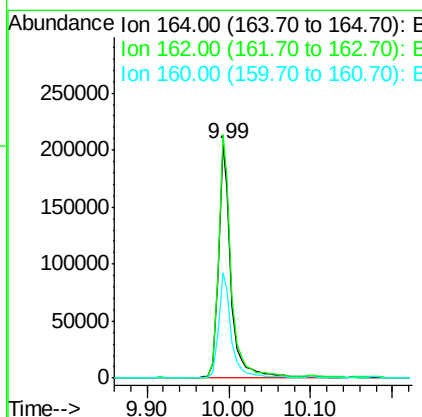
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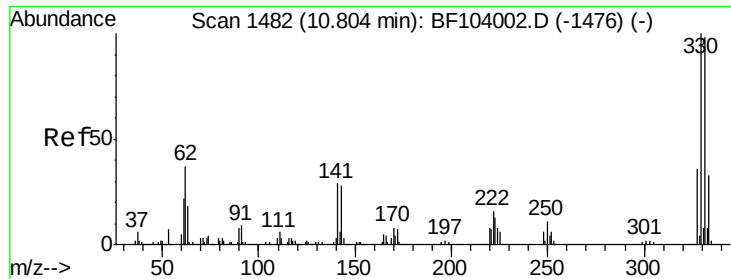
Sohil
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#38
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.99 min Scan# 1344
Delta R.T. -0.01 min
Lab File: BF104095.D
Acq: 30 Mar 2018 16:27

Tgt Ion	Ratio	Lower	Upper
164	100		
162	104.2	86.1	129.1
160	44.9	38.3	57.5





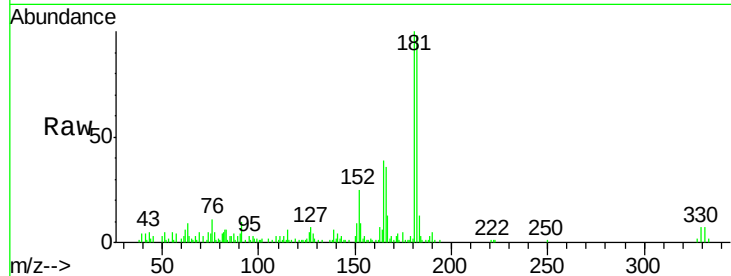
#41
 2,4,6-Tribromophenol
 Concen: 1.527 ng
 RT: 10.79 min Scan# 1480
 Delta R.T. 0.00 min
 Lab File: BF104095.D
 Acq: 30 Mar 2018 16:27

Instrument :
 BNA_F
 ClientSampled :
 PAD-1

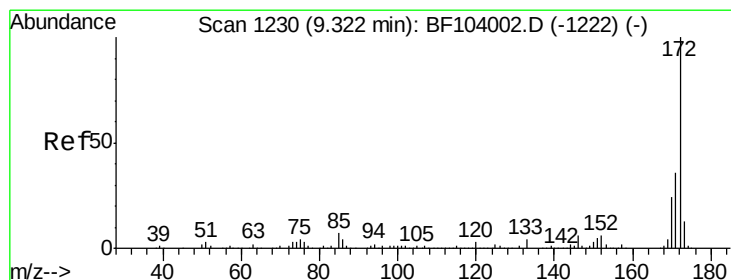
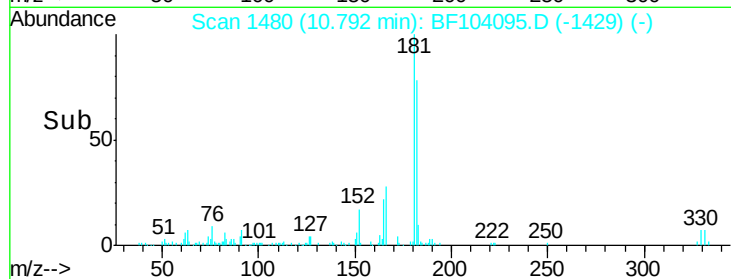
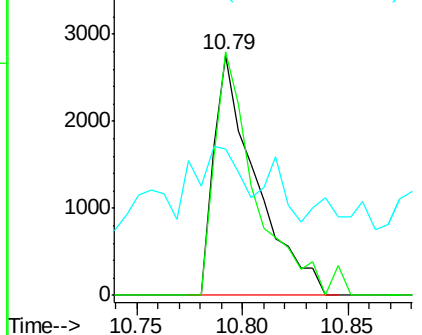
Tot Ion	Ratio	Lower	Upper
330	100		
332	100.7	77.0	115.6
141	32.1	29.9	44.9

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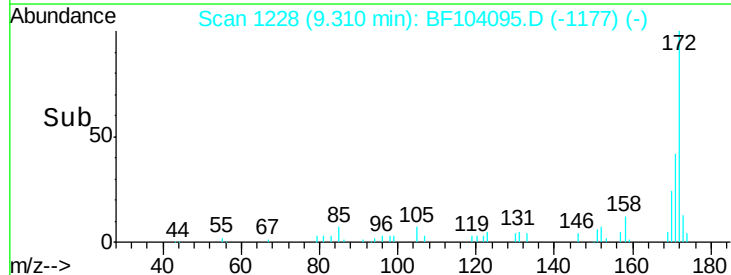
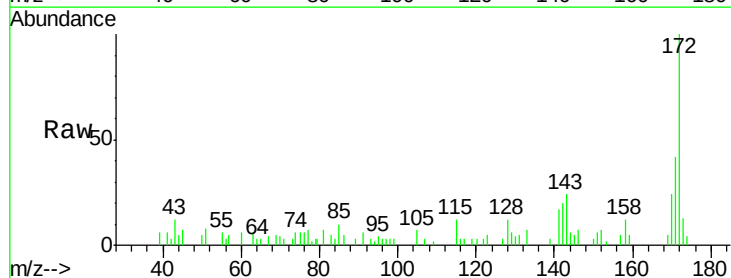
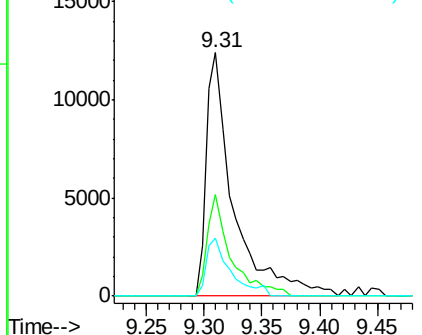
Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

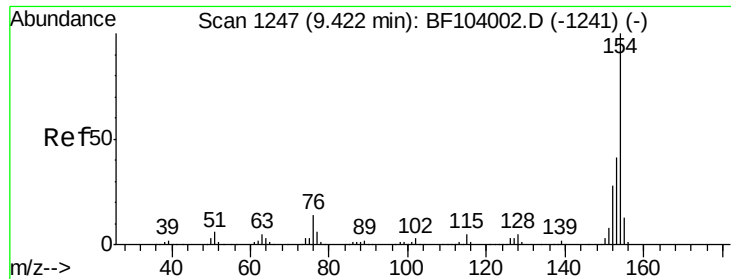


#44
 2-Fluorobiphenyl
 Concen: 1.441 ng
 RT: 9.31 min Scan# 1228
 Delta R.T. 0.00 min
 Lab File: BF104095.D
 Acq: 30 Mar 2018 16:27

Tgt Ion	Ratio	Lower	Upper
172	100		
171	41.6	29.7	44.5
170	23.7	19.6	29.4

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





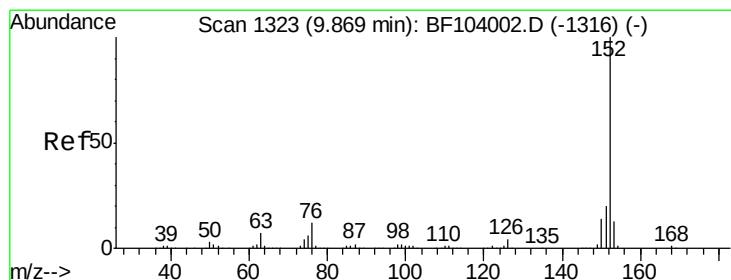
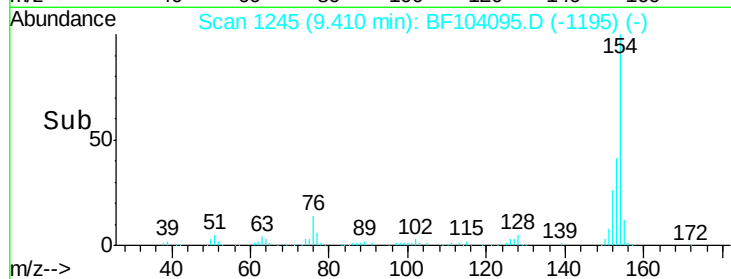
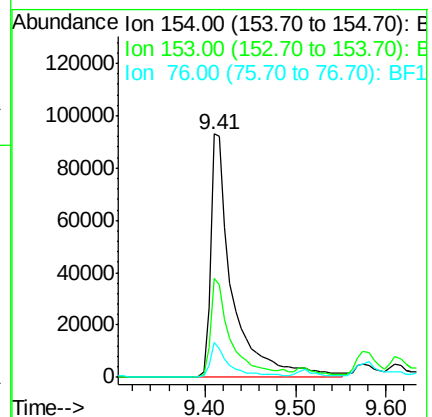
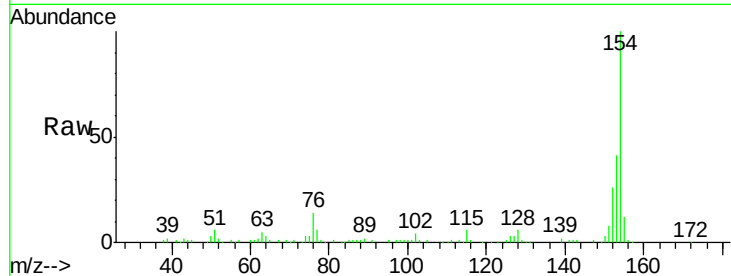
#45
1,1'-Biphenyl
Concen: 8.163 ng
RT: 9.41 min Scan# 1245
Delta R.T. -0.01 min
Lab File: BF104095.D
Acq: 30 Mar 2018 16:27

Instrument :
BNA_F
ClientSampleId :
PAD-1

Tot Ion	Ratio	Lower	Upper
154	100		
153	40.8	21.3	61.3
76	14.3	0.0	34.0

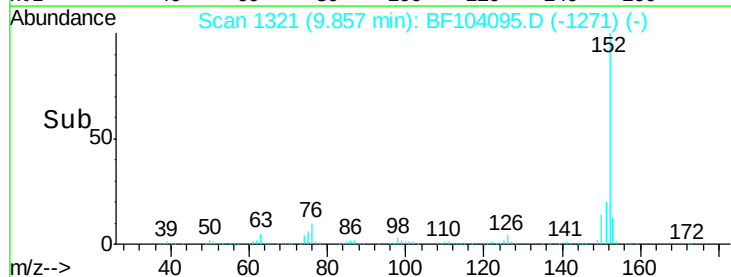
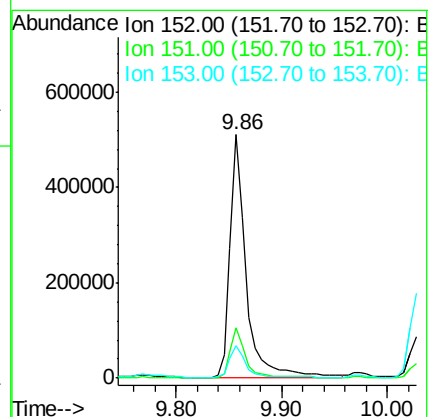
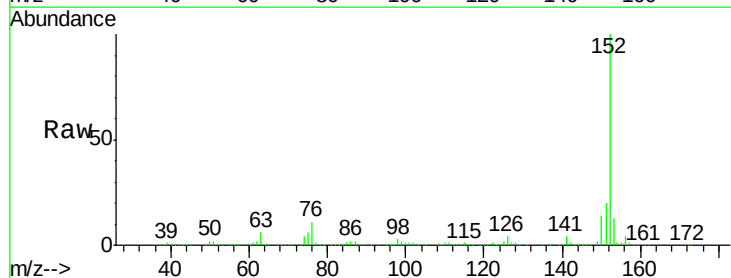
Manual Integrations
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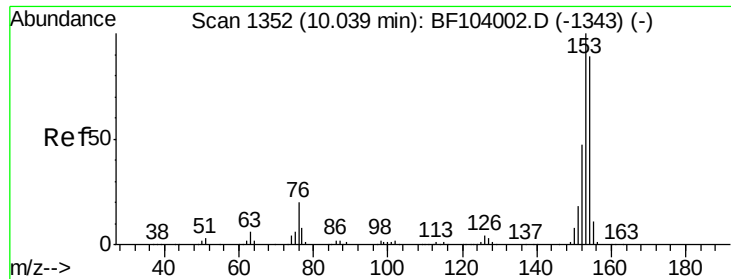
Sohil
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#48
Acenaphthylene
Concen: 23.613 ng
RT: 9.86 min Scan# 1321
Delta R.T. -0.01 min
Lab File: BF104095.D
Acq: 30 Mar 2018 16:27

Tgt Ion	Ratio	Lower	Upper
152	100		
151	20.4	16.3	24.5
153	13.4	10.7	16.1





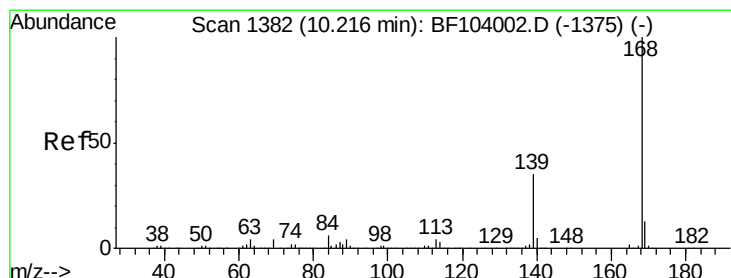
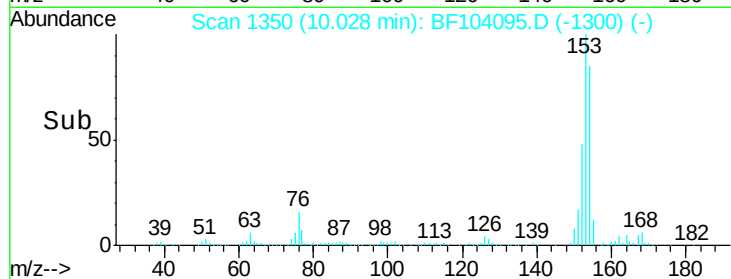
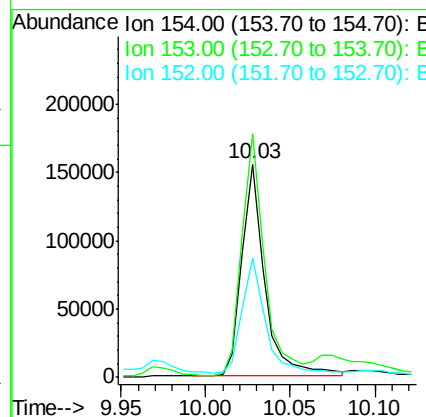
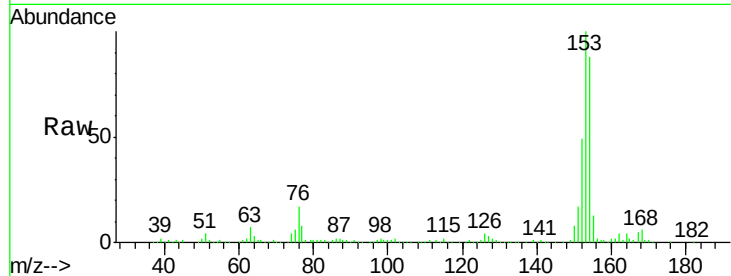
#51
Acenaphthene
Concen: 11.176 ng
RT: 10.03 min Scan# 1350
Delta R.T. -0.01 min
Lab File: BF104095.D
Acq: 30 Mar 2018 16:27

Instrument :
BNA_F
ClientSampleId :
PAD-1

Tot Ion	Ratio	Lower	Upper
154	100		
153	114.0	91.2	136.8
152	55.8	43.8	65.8

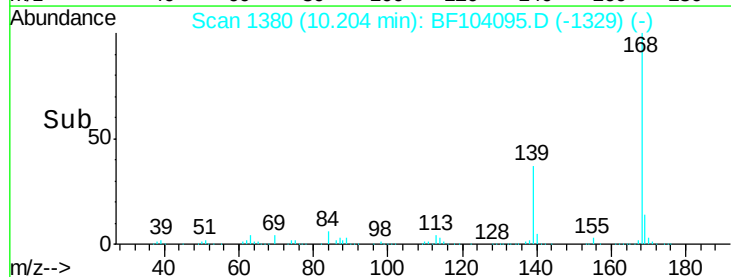
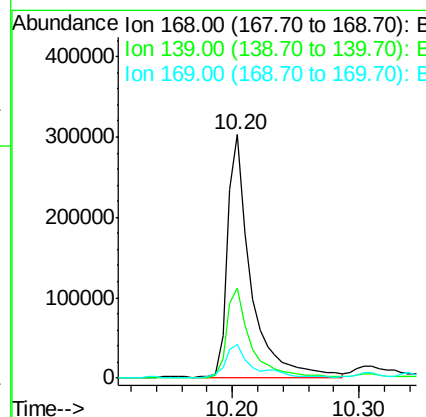
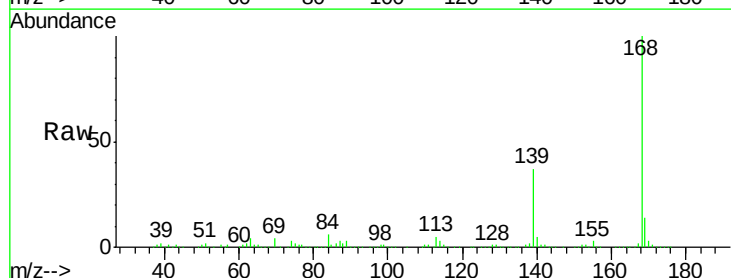
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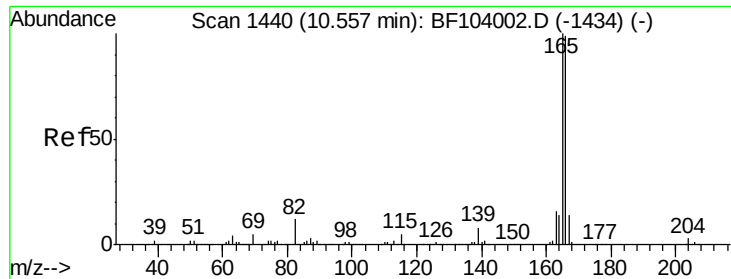
Sohil
4/2/2018 5:05:34 PM



#54
Dibenzofuran
Concen: 19.578 ng
RT: 10.20 min Scan# 1380
Delta R.T. 0.00 min
Lab File: BF104095.D
Acq: 30 Mar 2018 16:27

Tgt Ion	Ratio	Lower	Upper
168	100		
139	36.8	30.1	45.1
169	13.8	10.9	16.3





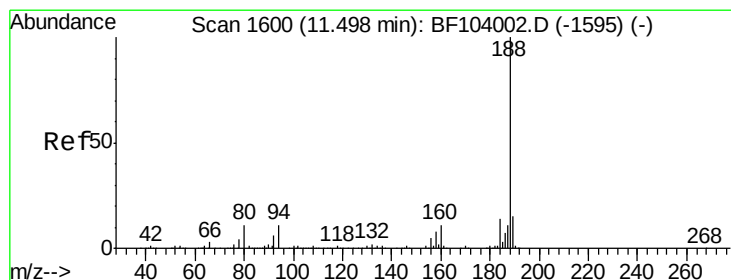
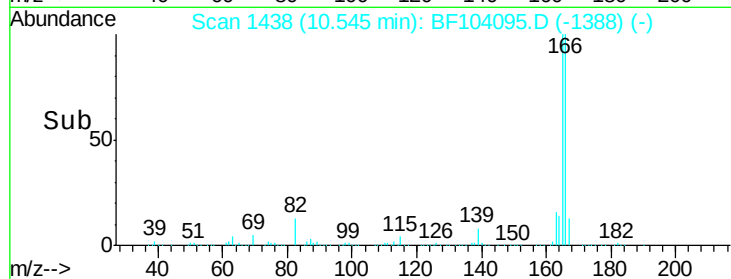
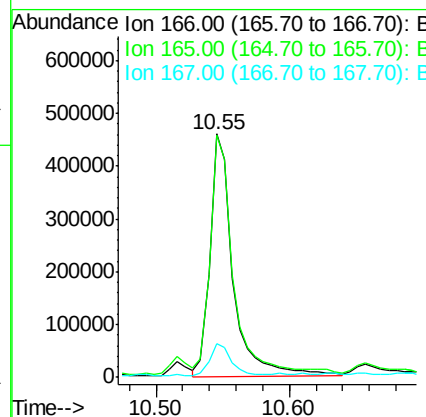
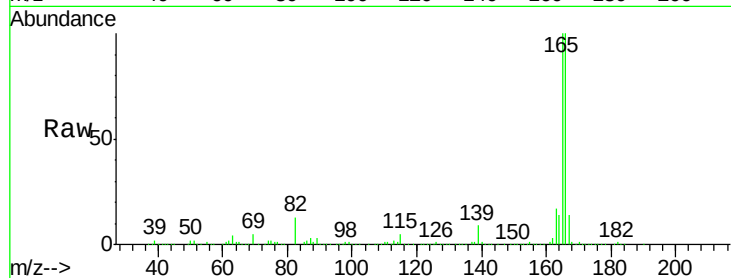
#57
Fluorene
 Concen: 34.598 ng
 RT: 10.55 min Scan# 1438
 Delta R.T. -0.01 min
 Lab File: BF104095.D
 Acq: 30 Mar 2018 16:27

Instrument :
 BNA_F
 ClientSampleId :
 PAD-1

Tot Ion	Ratio	Lower	Upper
166	100		
165	99.7	79.8	119.8
167	13.8	10.6	16.0

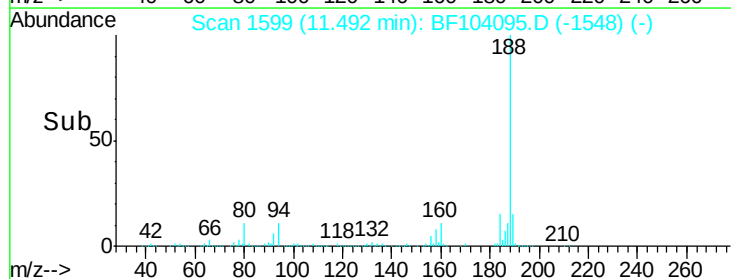
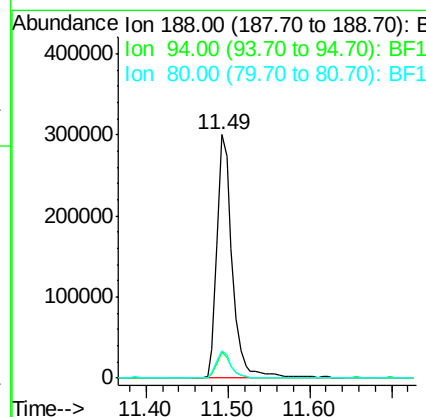
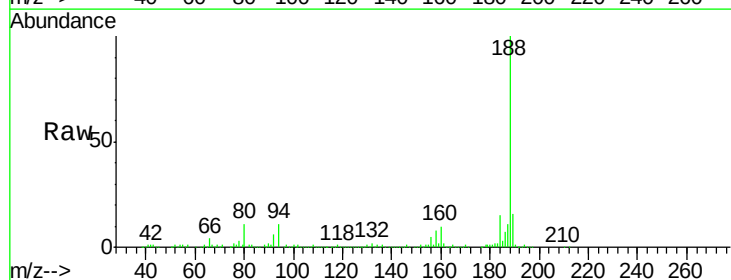
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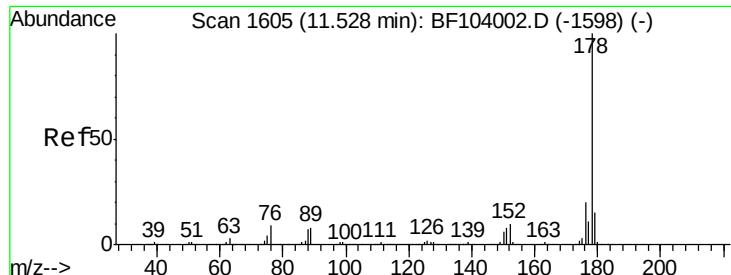
Sohil
 4/2/2018 5:05:34 PM



#63
Phenanthrene-d10
 Concen: 20.000 ng
 RT: 11.49 min Scan# 1599
 Delta R.T. 0.00 min
 Lab File: BF104095.D
 Acq: 30 Mar 2018 16:27

Tgt Ion	Ratio	Lower	Upper
188	100		
94	10.8	8.5	12.7
80	11.2	9.2	13.8





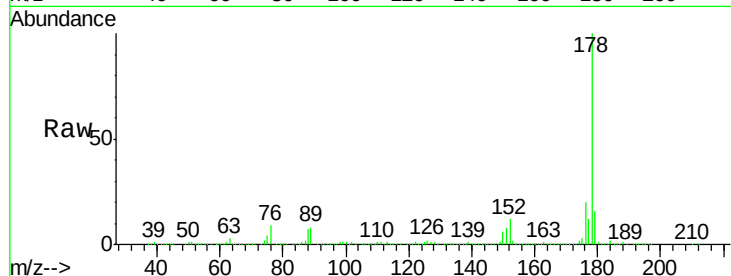
#70
Phenanthrene
Concen: 94.437 ng
RT: 11.53 min Scan# 1605
Delta R.T. 0.01 min
Lab File: BF104095.D
Acq: 30 Mar 2018 16:27

Instrument :
BNA_F
ClientSampleId :
PAD-1

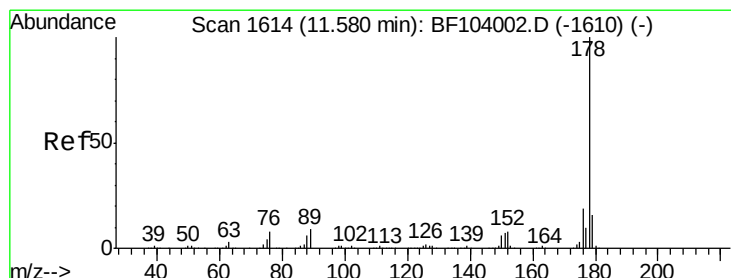
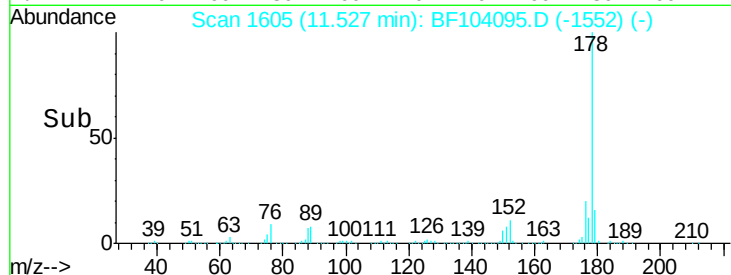
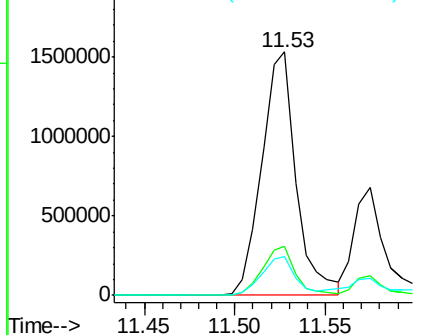
Tot Ion:178 Resp: 2018219
Ion Ratio Lower Upper
178 100
176 20.0 15.8 23.8
179 15.8 13.0 19.6

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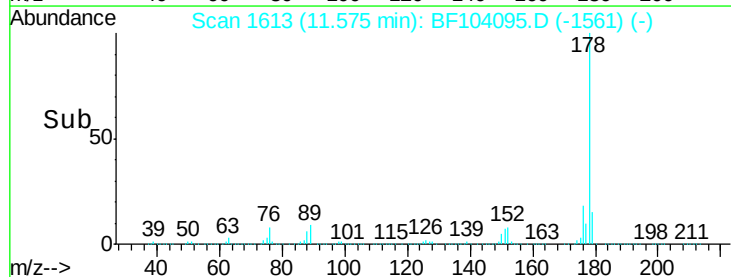
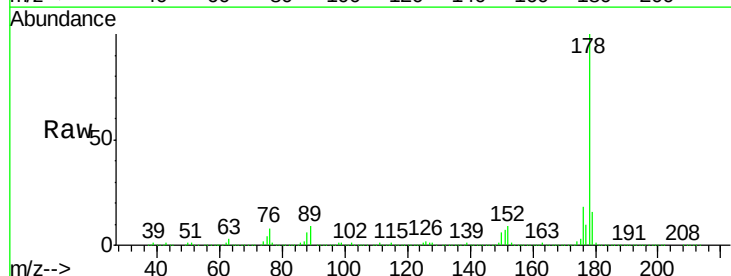
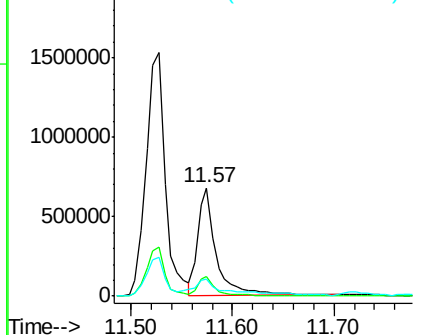
Abundance Ion 178.00 (177.70 to 178.70): E
Ion 176.00 (175.70 to 176.70): E
Ion 179.00 (178.70 to 179.70): E

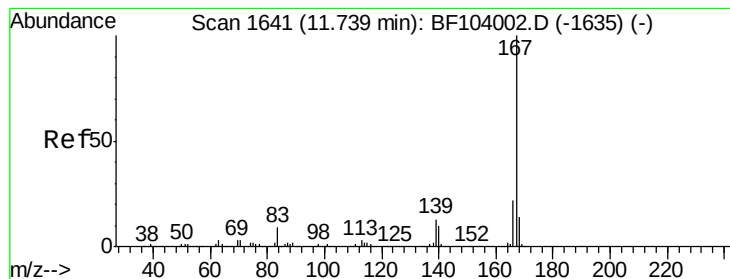


#71
Anthracene
Concen: 38.379 ng
RT: 11.57 min Scan# 1613
Delta R.T. 0.01 min
Lab File: BF104095.D
Acq: 30 Mar 2018 16:27

Tgt Ion:178 Resp: 856724
Ion Ratio Lower Upper
178 100
176 18.4 15.4 23.2
179 15.9 12.6 19.0

Abundance Ion 178.00 (177.70 to 178.70): E
Ion 176.00 (175.70 to 176.70): E
Ion 179.00 (178.70 to 179.70): E





#72

Carbazole

Concen: 9.434 ng

RT: 11.73 min Scan# 1640

Delta R.T. 0.01 min

Lab File: BF104095.D

Acq: 30 Mar 2018 16:27

Instrument :

BNA_F

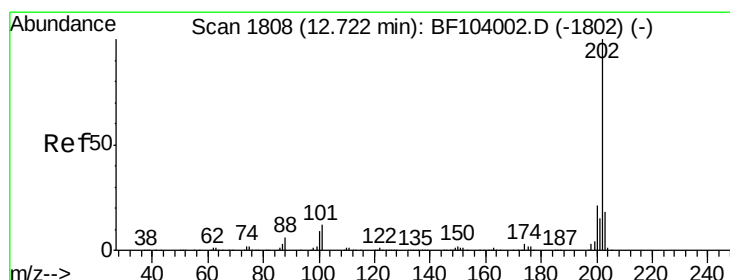
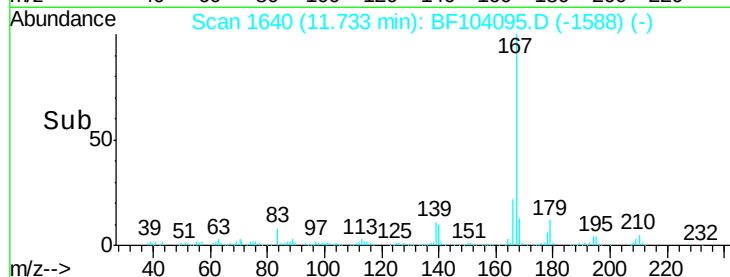
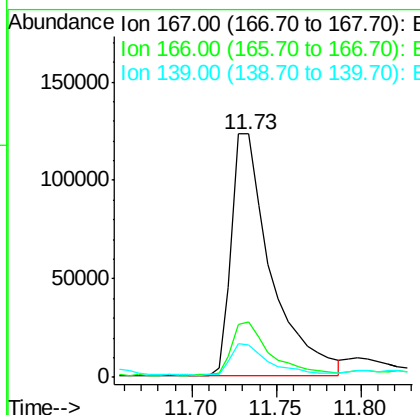
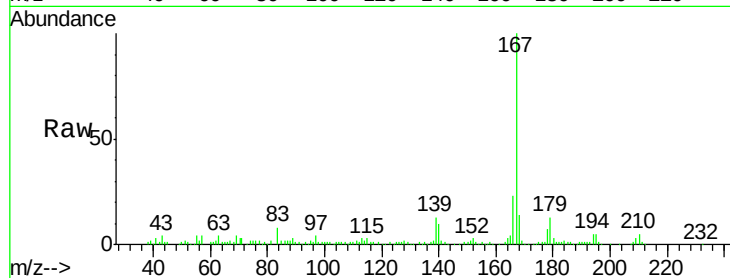
ClientSampled :

PAD-1

Tot Ion:	167	Resp:	201004
Ion Ratio	Lower	Upper	
167	100		
166	22.5	17.6	26.4
139	13.3	10.9	16.3

Manual Integrations
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#74

Fluoranthene

Concen: 66.710 ng

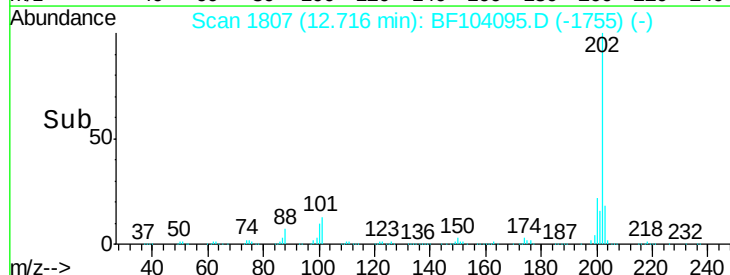
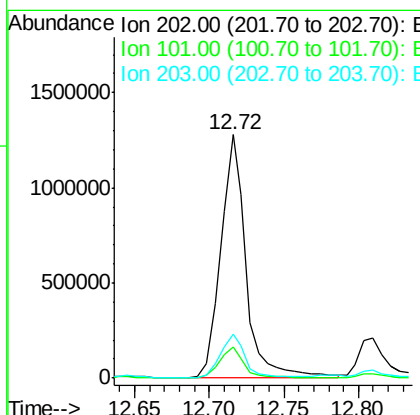
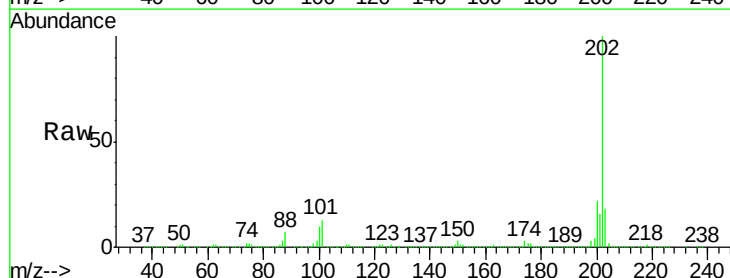
RT: 12.72 min Scan# 1807

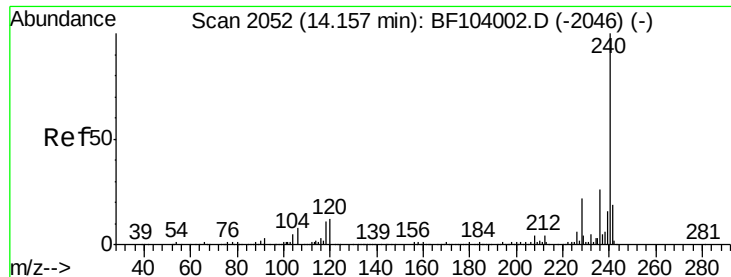
Delta R.T. 0.01 min

Lab File: BF104095.D

Acq: 30 Mar 2018 16:27

Tgt Ion:	202	Resp:	1515401
Ion Ratio	Lower	Upper	
202	100		
101	12.9	0.0	34.1
203	18.0	0.0	38.1





#75

Chrysene-d12

Concen: 20.000 ng

RT: 14.15 min Scan# 2051

Delta R.T. 0.01 min

Lab File: BF104095.D

Acq: 30 Mar 2018 16:27

Instrument :

BNA_F

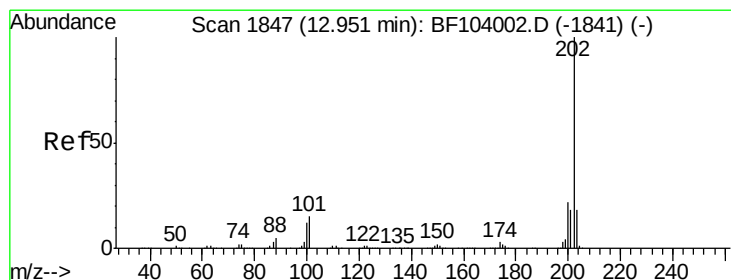
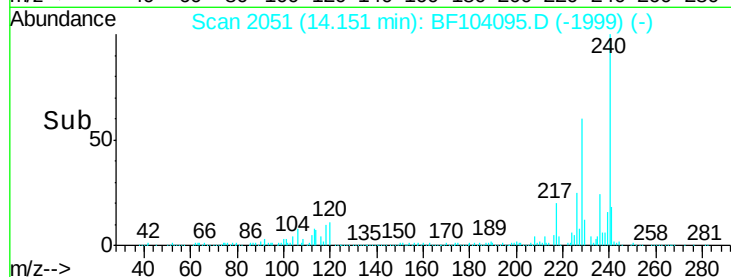
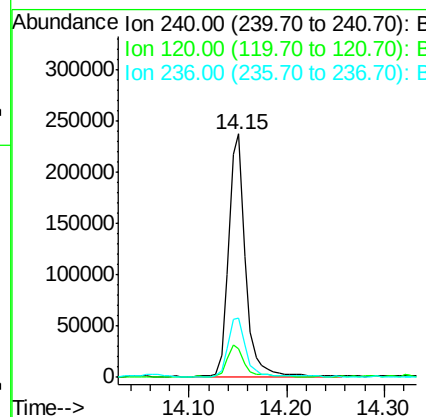
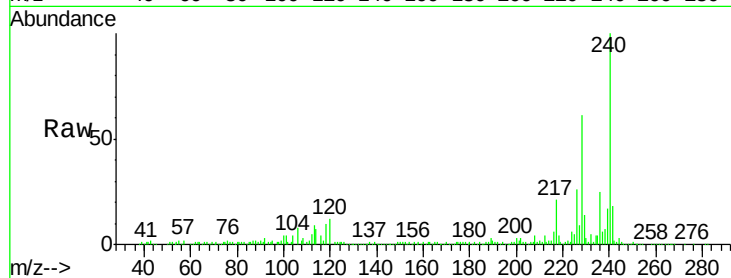
ClientSampleId :

PAD-1

Tot Ion	Ratio	Lower	Upper
240	100		
120	11.6	9.5	14.3
236	24.6	20.7	31.1

Manual Integrations
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4/2/2018 5:05:34 PM



#77

Pyrene

Concen: 70.350 ng

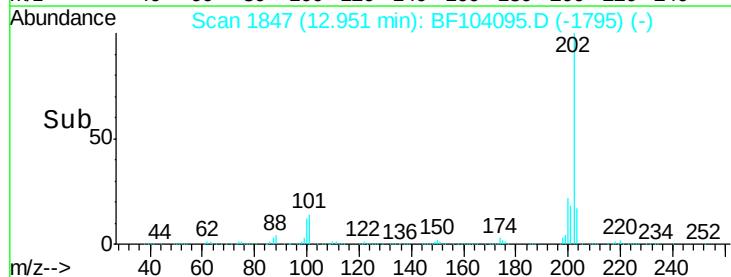
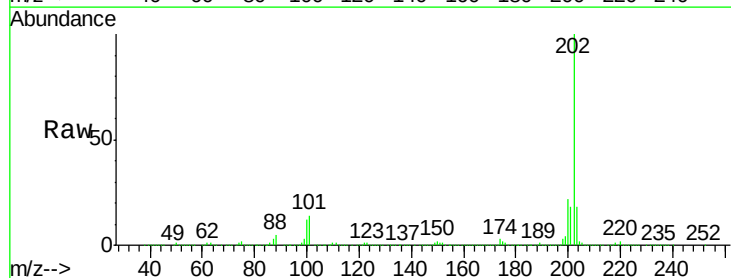
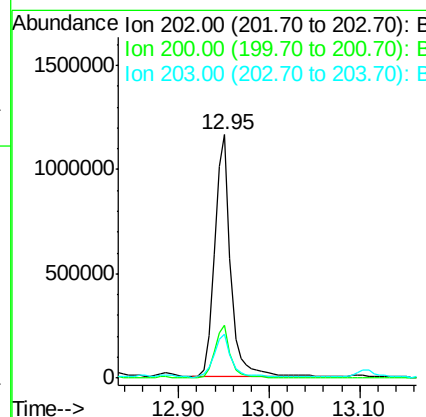
RT: 12.95 min Scan# 1847

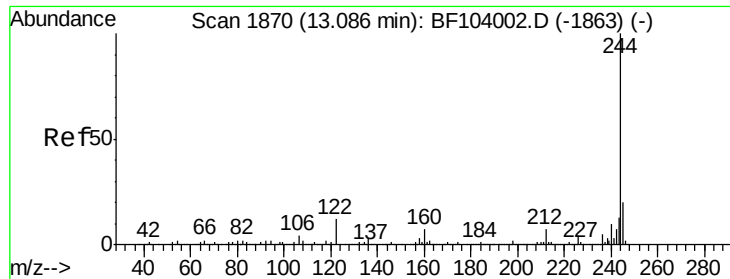
Delta R.T. 0.01 min

Lab File: BF104095.D

Acq: 30 Mar 2018 16:27

Tgt Ion	Ratio	Lower	Upper
202	100		
200	21.7	17.4	26.2
203	18.1	14.3	21.5





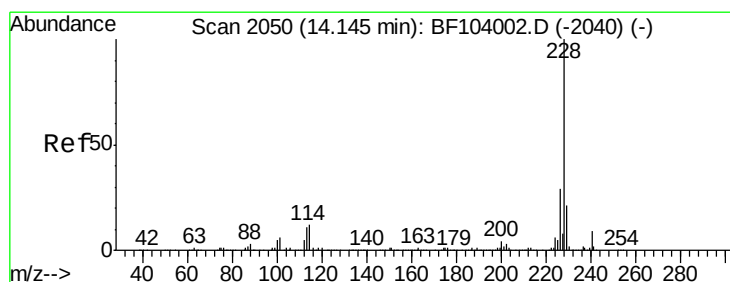
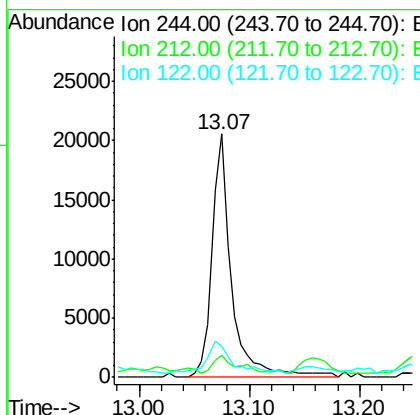
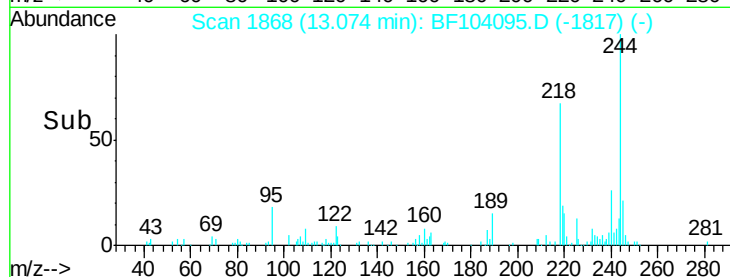
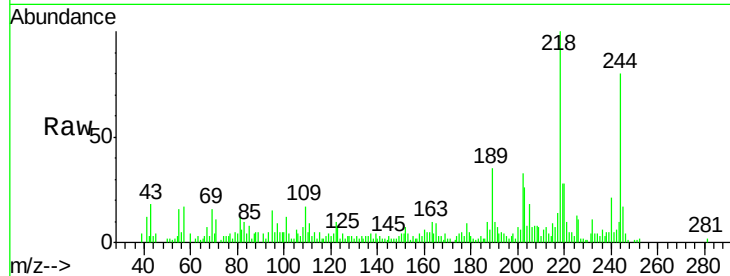
#78
 Terphenyl-d14
 Concen: 2.029 ng
 RT: 13.07 min Scan# 1868
 Delta R.T. 0.00 min
 Lab File: BF104095.D
 Acq: 30 Mar 2018 16:27

Instrument :
 BNA_F
 ClientSampled :
 PAD-1

Tot Ion	Ratio	Lower	Upper
244	100		
212	9.3	5.4	8.0#
122	12.6	11.0	16.4

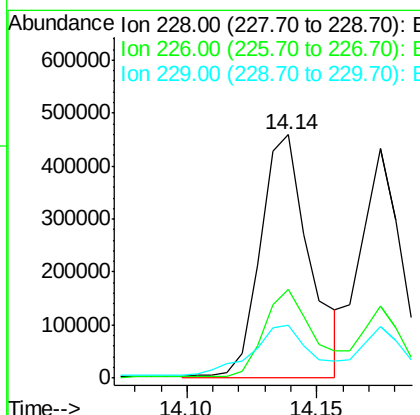
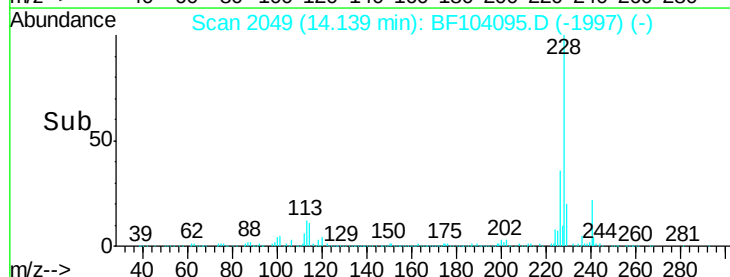
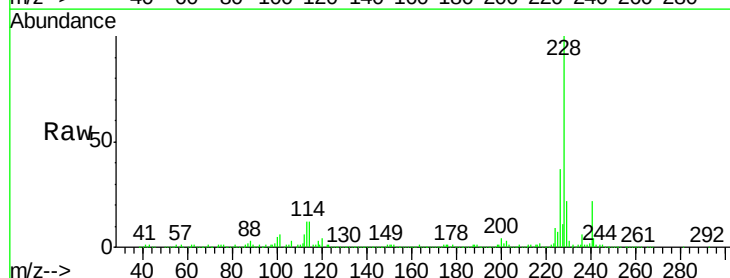
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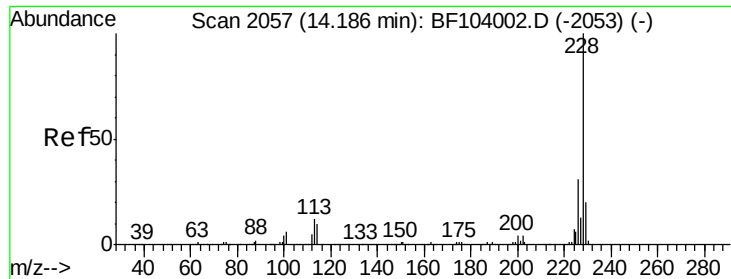
Sohil
 4/2/2018 5:05:34 PM



#80
 Benzo(a)anthracene
 Concen: 34.016 ng m
 RT: 14.14 min Scan# 2049
 Delta R.T. 0.01 min
 Lab File: BF104095.D
 Acq: 30 Mar 2018 16:27

Tgt Ion	Ratio	Lower	Upper
228	100		
226	36.6	22.6	33.8#
229	21.8	15.8	23.6





#82

Chrysene

Concen: 28.592 ng

RT: 14.17 min Scan# 2055

Delta R.T. 0.00 min

Lab File: BF104095.D

Acq: 30 Mar 2018 16:27

Instrument :

BNA_F

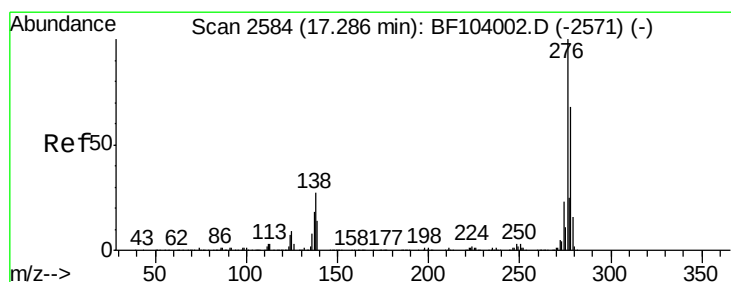
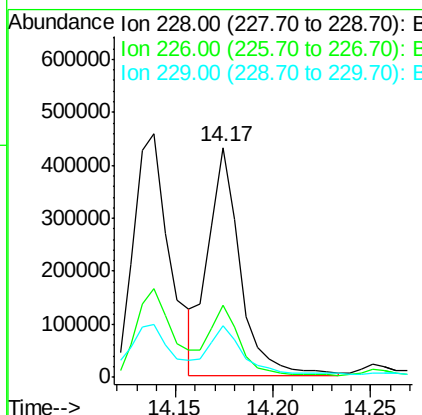
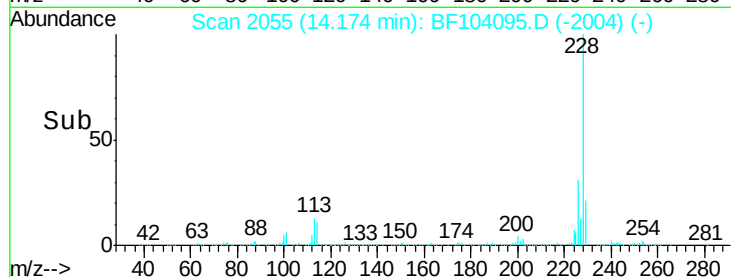
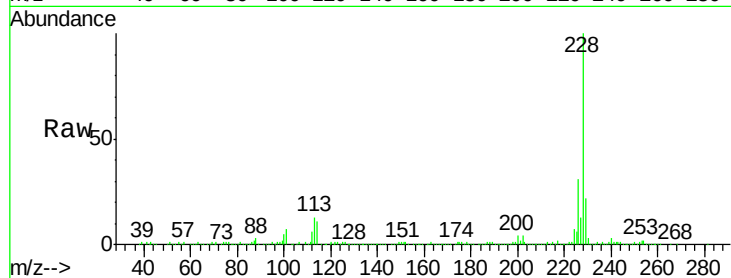
ClientSampled :

PAD-1

Tot Ion:	228	Resp:	497457
Ion Ratio	Lower	Upper	
228	100		
226	31.4	25.0	37.6
229	22.2	16.2	24.4

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#85

Indeno(1,2,3-cd)pyrene

Concen: 10.421 ng

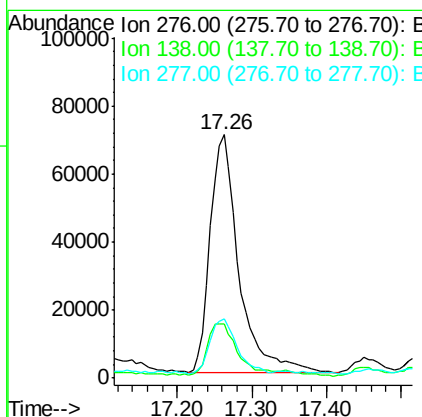
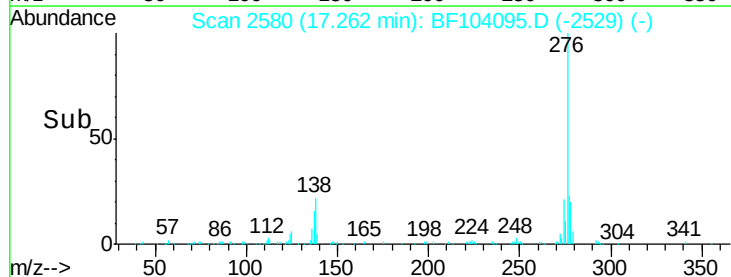
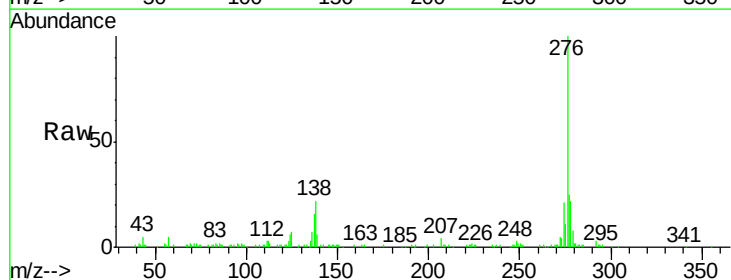
RT: 17.26 min Scan# 2580

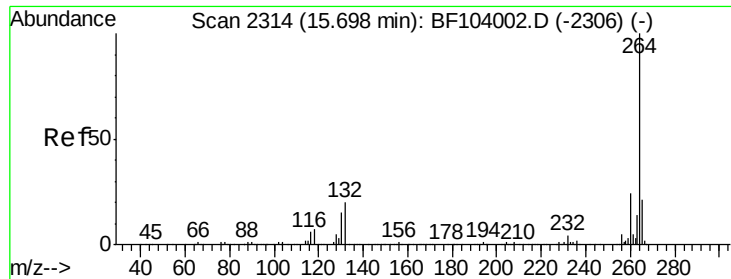
Delta R.T. 0.00 min

Lab File: BF104095.D

Acq: 30 Mar 2018 16:27

Tgt Ion:	276	Resp:	187879
Ion Ratio	Lower	Upper	
276	100		
138	22.3	25.0	37.6#
277	21.4	20.1	30.1





#86

Pervlene-d12

Concen: 20.000 ng

RT: 15.69 min Scan# 2312

Delta R.T. 0.01 min

Lab File: BF104095.D

Acq: 30 Mar 2018 16:27

Instrument :

BNA_F

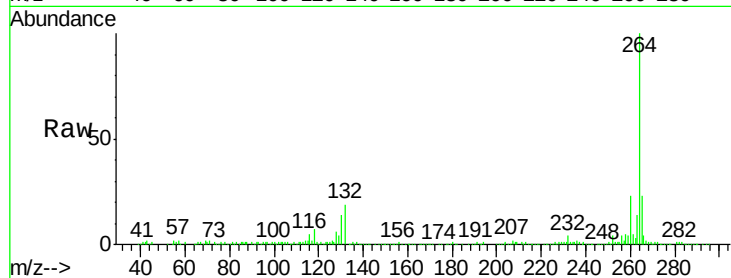
ClientSampleId :

PAD-1

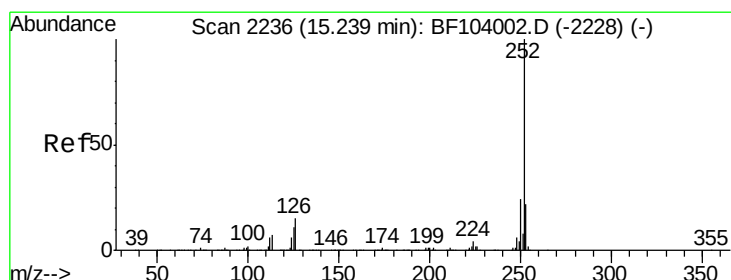
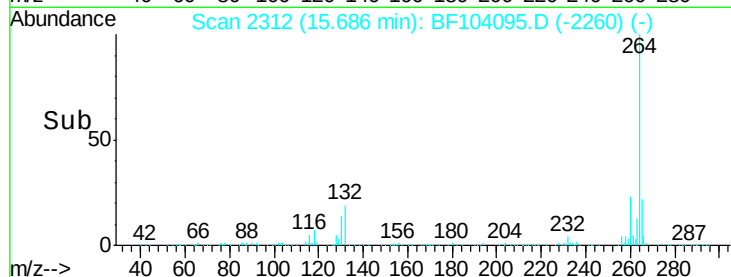
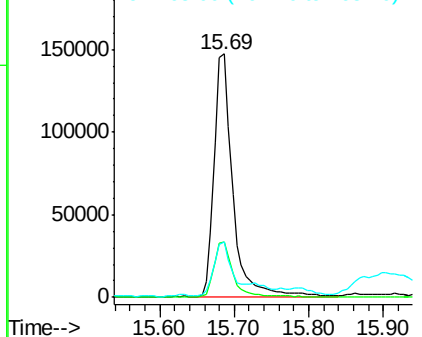
Tot Ion:	264	Resp:	253799
Ion Ratio	Lower	Upper	
264	100		
260	23.0	19.2	28.8
265	22.7	17.5	26.3

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Abundance Ion 264.00 (263.70 to 264.70): E
Ion 260.00 (259.70 to 260.70): E
Ion 265.00 (264.70 to 265.70): E



#87

Benzo(b)fluoranthene

Concen: 27.921 ng m

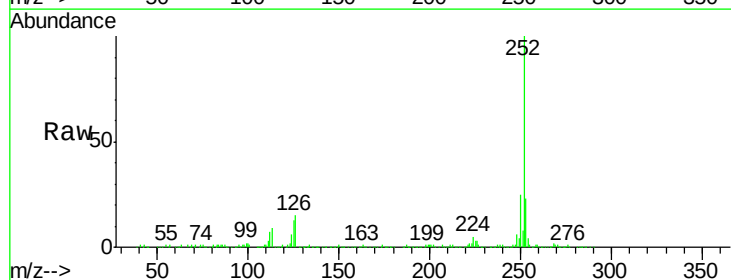
RT: 15.23 min Scan# 2234

Delta R.T. 0.01 min

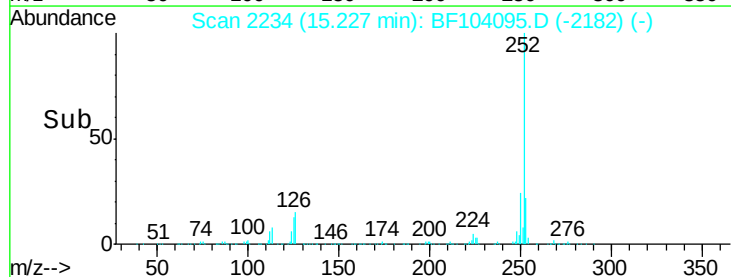
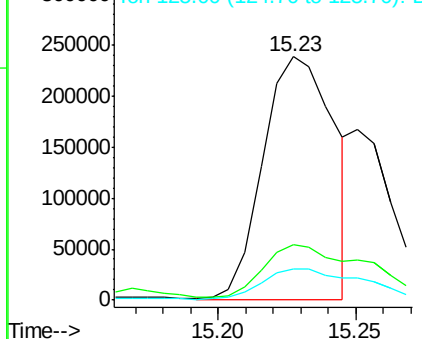
Lab File: BF104095.D

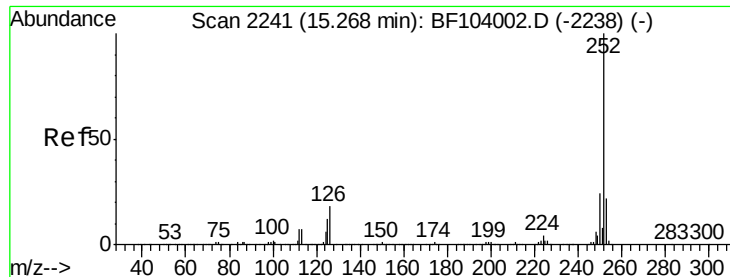
Acq: 30 Mar 2018 16:27

Tgt Ion:	252	Resp:	431274
Ion Ratio	Lower	Upper	
252	100		
253	22.7	17.0	25.6
125	13.0	9.0	13.6



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





#88

Benzo(k)fluoranthene

Concen: 13.817 ng

RT: 15.25 min Scan# 2238

Delta R.T. -0.01 min

Lab File: BF104095.D

Acq: 30 Mar 2018 16:27

Instrument :

BNA_F

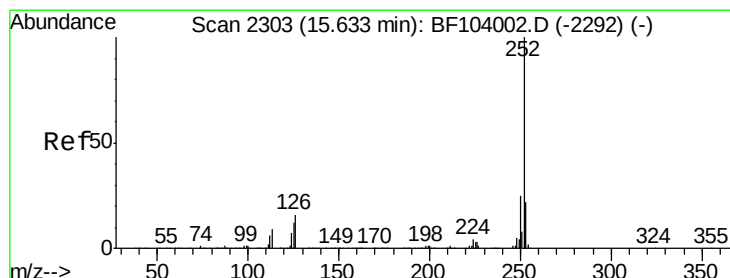
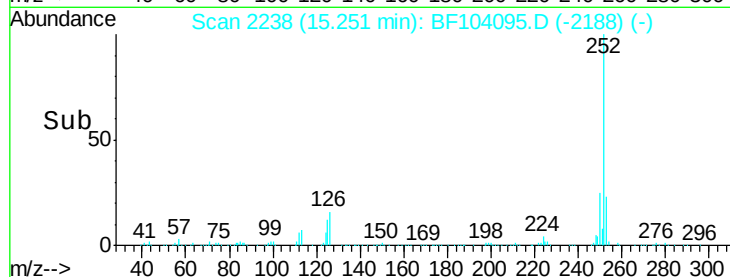
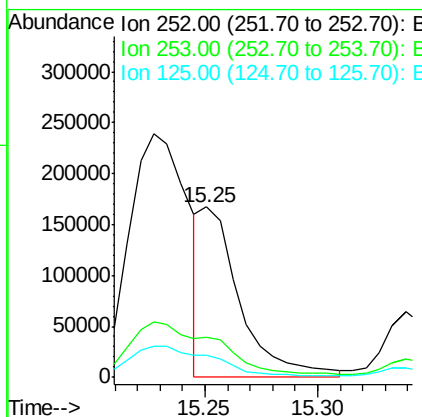
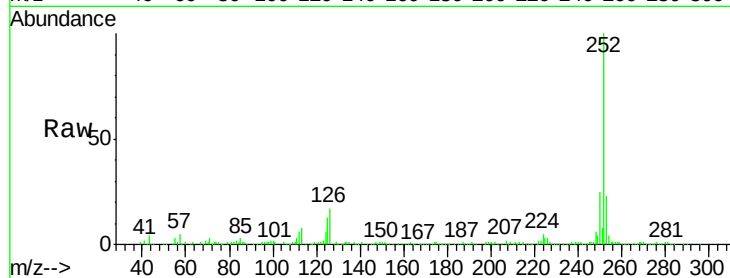
ClientSampleId :

PAD-1

Tot Ion:	252	Resp:	201041
Ion Ratio	Lower	Upper	
252	100		
253	23.5	17.9	26.9
125	12.8	10.2	15.2

Manual Integrations
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#89

Benzo(a)pyrene

Concen: 27.511 ng

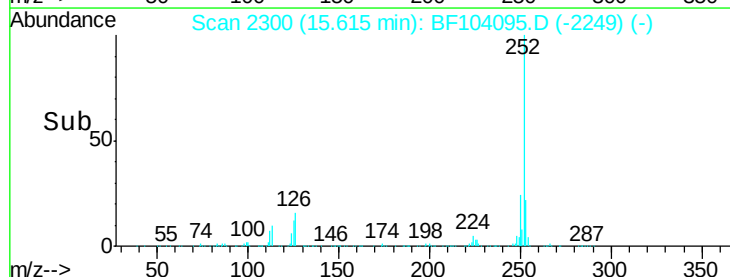
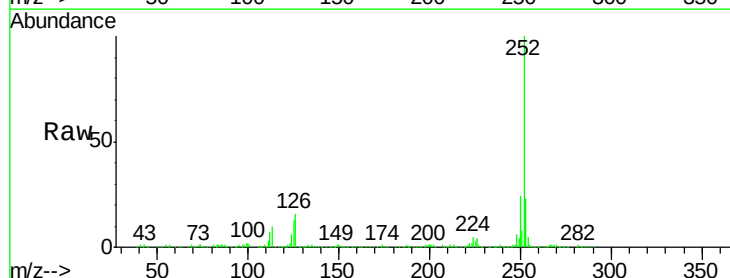
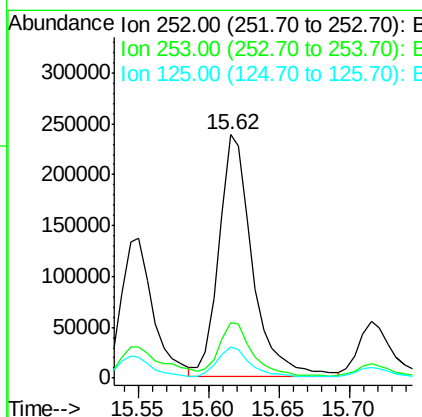
RT: 15.62 min Scan# 2300

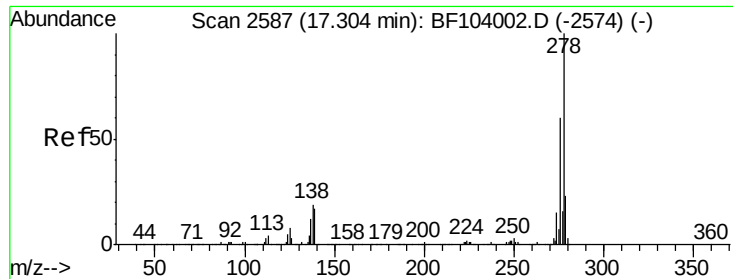
Delta R.T. 0.00 min

Lab File: BF104095.D

Acq: 30 Mar 2018 16:27

Tgt Ion:	252	Resp:	393784
Ion Ratio	Lower	Upper	
252	100		
253	22.8	17.1	25.7
125	12.8	9.8	14.6





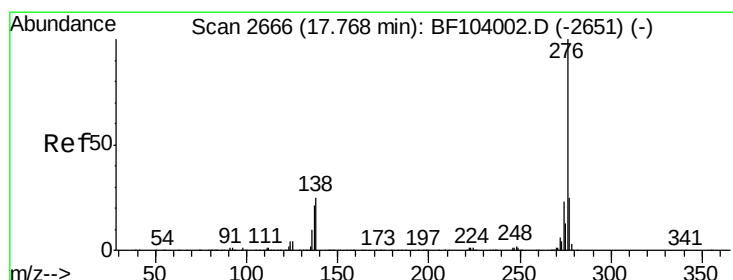
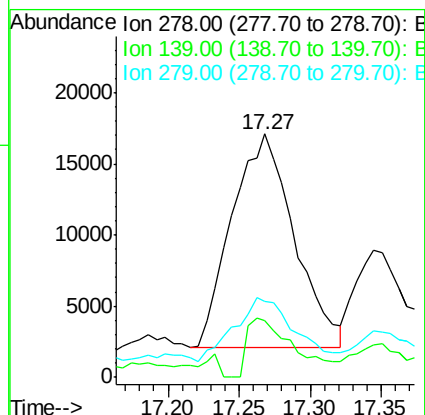
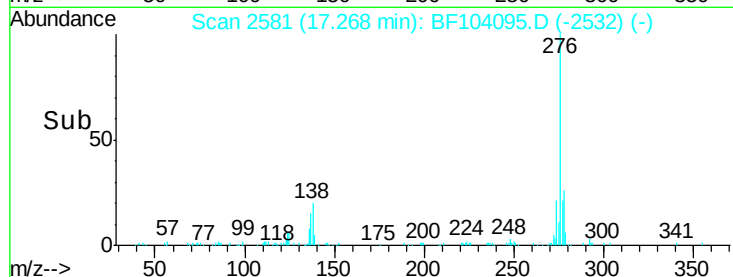
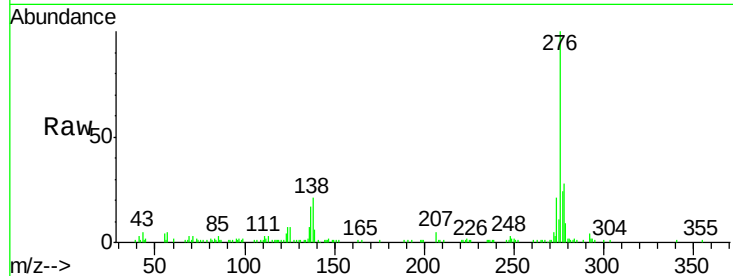
#90
Dibenzo(a,h)anthracene
Concen: 3.482 ng m
RT: 17.27 min Scan# 2581
Delta R.T. -0.01 min
Lab File: BF104095.D
Acq: 30 Mar 2018 16:27

Instrument :
BNA_F
ClientSampled :
PAD-1

Tot Ion	Ratio	Lower	Upper
278	100		
139	23.6	15.9	23.9
279	31.4	19.0	28.4

Manual Integrations
APPROVED

Sohil
4/2/2018 5:05:34 PM



#91
Benzo(g,h,i)perylene
Concen: 13.316 ng
RT: 17.74 min Scan# 2661
Delta R.T. -0.01 min
Lab File: BF104095.D
Acq: 30 Mar 2018 16:27

Tgt Ion	Ratio	Lower	Upper
276	100		
277	24.0	17.9	26.9
138	23.4	21.8	32.8

