

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF073018\
 Data File : BF107818.D
 Acq On : 30 Jul 2018 23:27
 Operator : JU/SJ
 Sample : J4164-07
 Misc :
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SB-4(3-5)

Manual Integrations
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 7/31/2018 2:42:51 PM

Quant Time: Jul 31 03:51:48 2018
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF073018.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Jul 30 17:48:53 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.96	152	172165	20.00	ng	0.00
21) Naphthalene-d8	8.24	136	712174	20.00	ng	0.00
38) Acenaphthene-d10	10.00	164	297954	20.00	ng	0.00
63) Phenanthrene-d10	11.50	188	480274	20.00	ng	0.00
75) Chrysene-d12	14.17	240	374096	20.00	ng	0.01
86) Perylene-d12	15.70	264	407057	20.00	ng	0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.60	112	1043168	102.98	ng	0.00
7) Phenol-d6	6.60	99	1397041	104.64	ng	0.00
23) Nitrobenzene-d5	7.52	82	931811	75.38	ng	-0.01
41) 2,4,6-Tribromophenol	10.80	330	295308	72.94	ng	0.00
44) 2-Fluorobiphenyl	9.31	172	1486016	69.50	ng	0.00
78) Terphenyl-d14	13.08	244	1117425	64.77	ng	0.00
Target Compounds						Qvalue
31) Naphthalene	8.27	128	809075	24.440	ng	100
37) 2-Methylnaphthalene	8.95	142	257787	12.397	ng	97
45) 1,1'-Biphenyl	9.42	154	163396	6.026	ng	99
48) Acenaphthylene	9.87	152	1015097	32.022	ng	98
49) Dimethylphthalate	9.71	163	118741	5.307	ng	# 97
51) Acenaphthene	10.03	154	189047	10.266	ng	96
54) Dibenzofuran	10.21	168	344493	12.104	ng	# 96
55) 4-Nitrophenol	10.04	139	7192	11.516	ng	87
57) Fluorene	10.55	166	684862	30.962	ng	# 98
70) Phenanthrene	11.54	178	3519832	154.346	ng	94
71) Anthracene	11.58	178	1736089	66.002	ng	99
72) Carbazole	11.74	167	118021	4.540	ng	# 81
74) Fluoranthene	12.73	202	3481319	129.943	ng	95
77) Pyrene	12.97	202	3865281	143.488	ng	95
80) Benzo(a)anthracene	14.15	228	2373713	112.014	ng	# 84
82) Chrysene	14.19	228	2104786	92.086	ng	94
85) Indeno(1,2,3-cd)pyrene	17.29	276	1000992	57.576	ng	# 86
87) Benzo(b)fluoranthene	15.25	252	2324463m	115.783	ng	
88) Benzo(k)fluoranthene	15.27	252	920664m	37.352	ng	
89) Benzo(a)pyrene	15.64	252	2001658	96.580	ng	97
90) Dibenz(a,h)anthracene	17.29	278	247500	13.690	ng	# 92
91) Benzo(g,h,i)perylene	17.78	276	1016043	58.084	ng	95

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

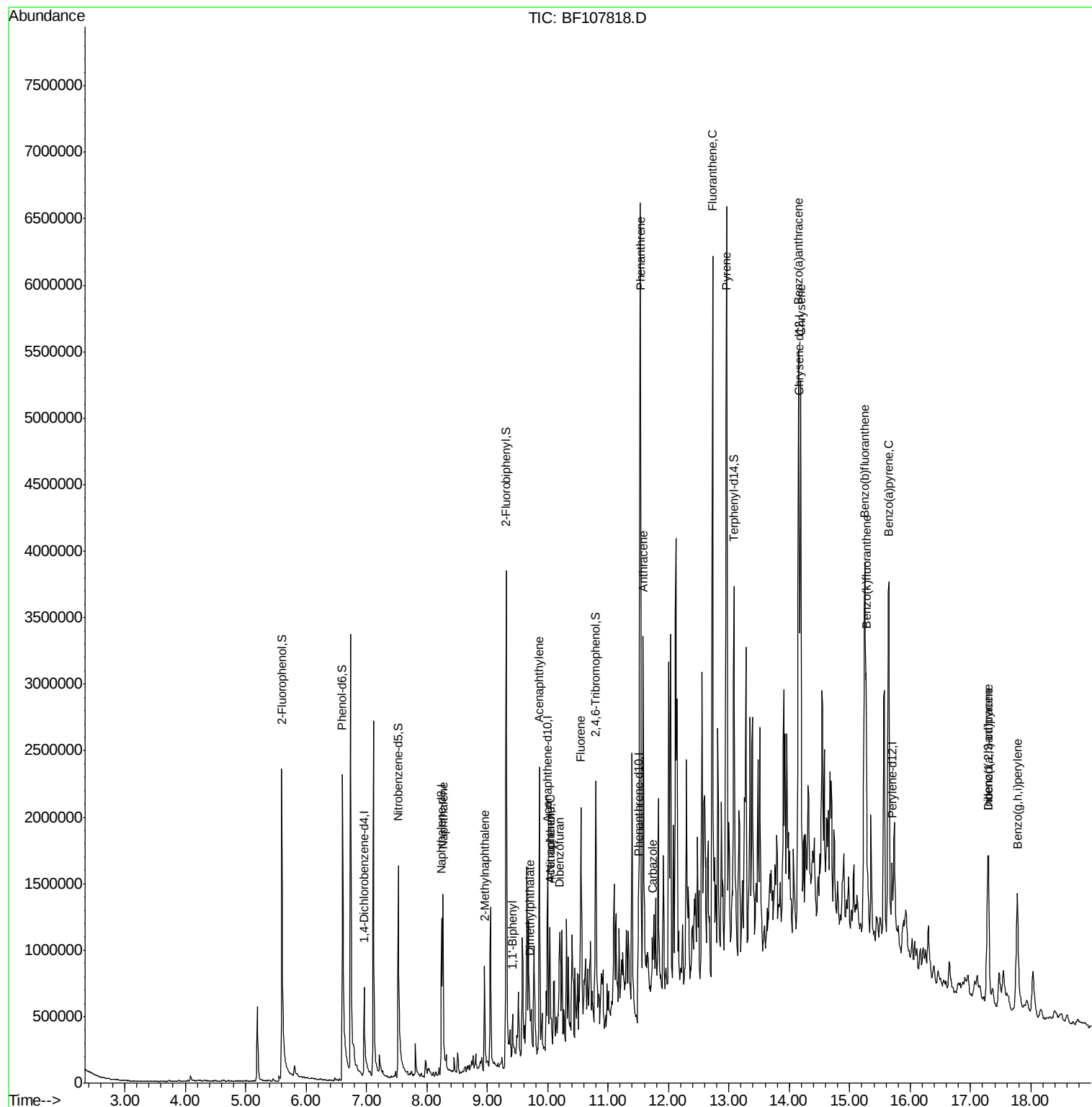
Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF073018\
Data File : BF107818.D
Acq On : 30 Jul 2018 23:27
Operator : JU/SJ
Sample : J4164-07
Misc :
ALS Vial : 19 Sample Multiplier: 1

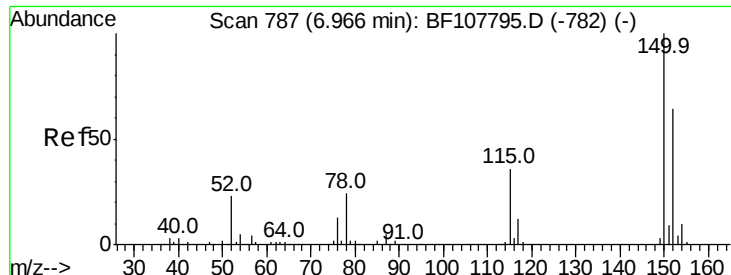
Instrument :
BNA_F
ClientSampleId :
SB-4(3-5)

Quant Time: Jul 31 03:51:48 2018
Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF073018.M
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QLast Update : Mon Jul 30 17:48:53 2018
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#1

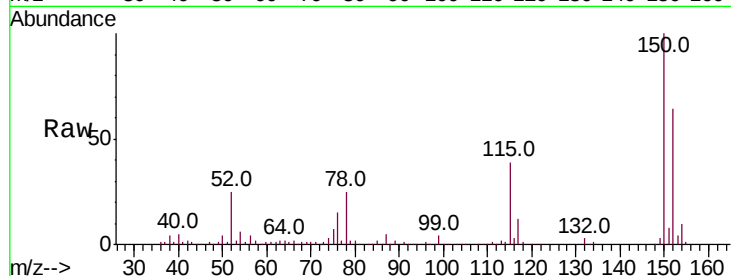
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.96 min Scan# 786
Delta R.T. -0.01 min
Lab File: BF107818.D
Acq: 30 Jul 2018 23:27

Instrument :
BNA_F
ClientSampleId :
SB-4(3-5)

Tot Ion	Ratio	Lower	Upper
152	100		
150	155.1	124.6	186.8
115	59.8	50.1	75.1

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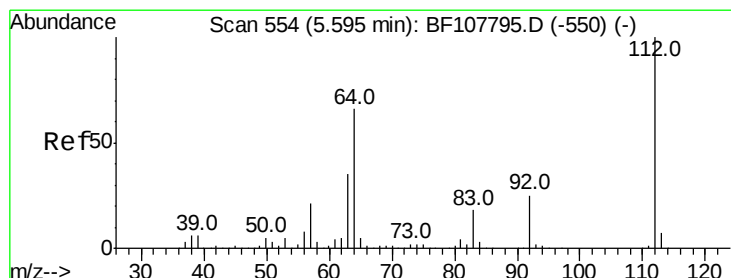
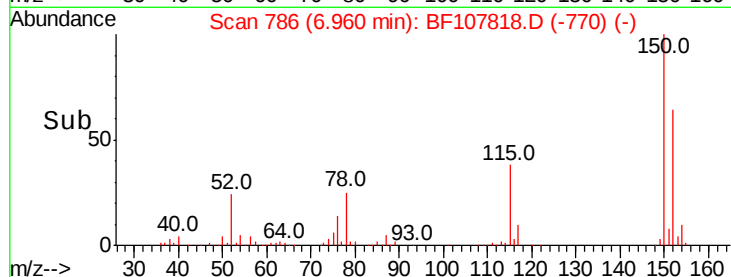
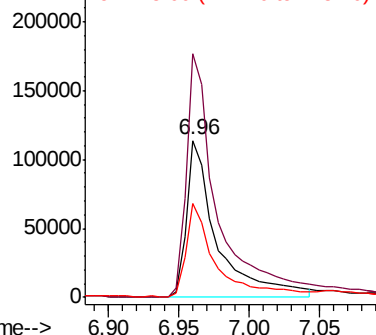


Abundance

Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

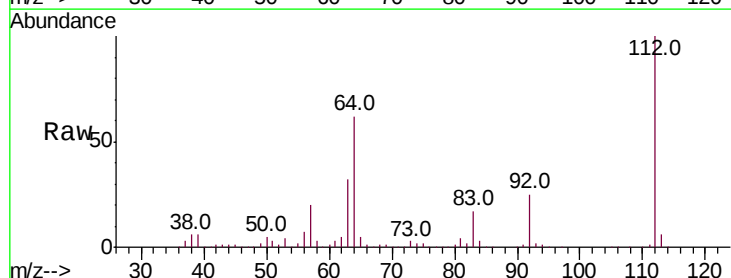
Ion 115.00 (114.70 to 115.70): E



#5

2-Fluorophenol
Concen: 102.978 ng
RT: 5.60 min Scan# 555
Delta R.T. 0.01 min
Lab File: BF107818.D
Acq: 30 Jul 2018 23:27

Tgt Ion	Ratio	Lower	Upper
112	100		
64	62.3	47.9	71.9
63	31.8	23.7	35.5

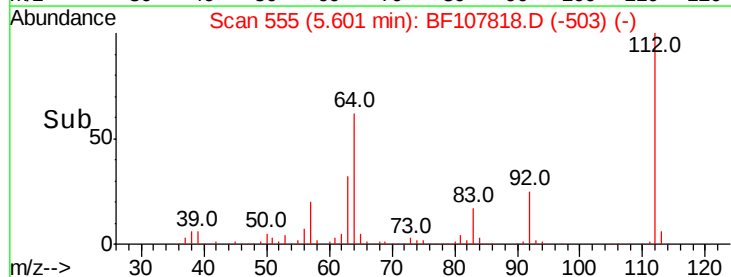
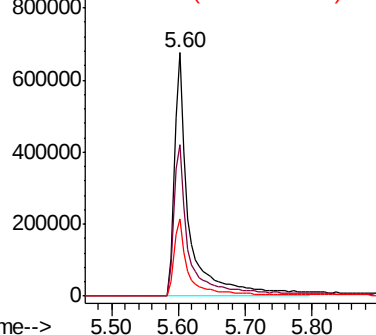


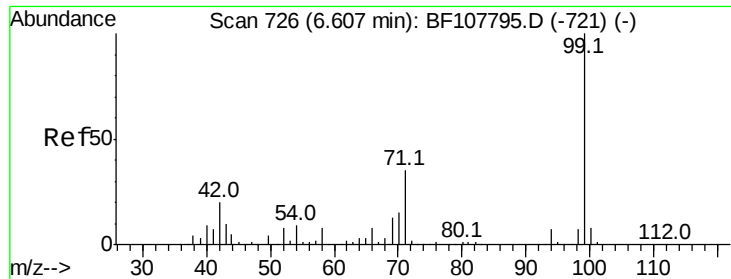
Abundance

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: 104.641 ng

RT: 6.60 min Scan# 725

Delta R.T. -0.01 min

Lab File: BF107818.D

Acq: 30 Jul 2018 23:27

Instrument :

BNA_F

ClientSampled :

SB-4(3-5)

Tot Ion: 99 Resp: 1397041

Ion Ratio Lower Upper

99 100

42 19.4 14.5 21.7

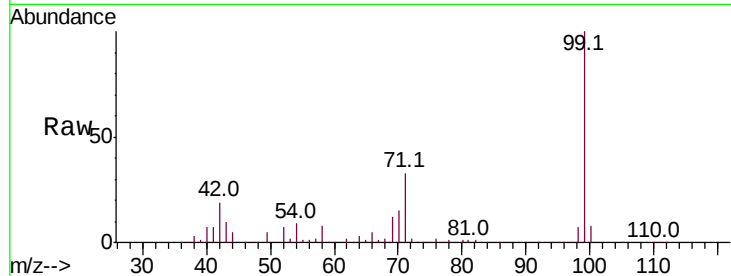
71 32.6 25.4 38.0

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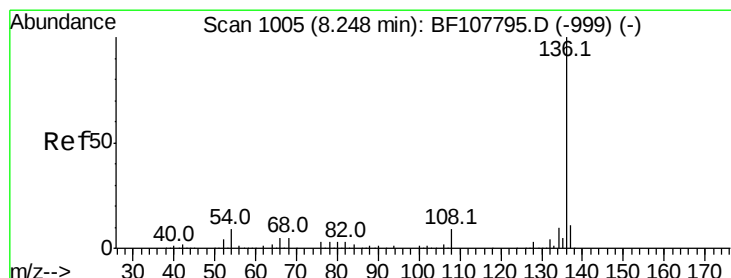
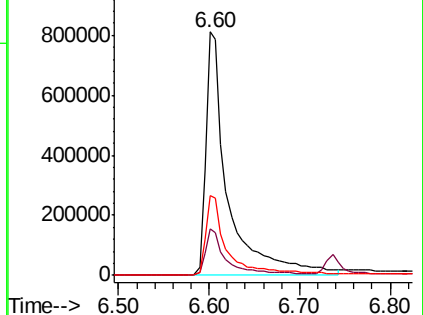
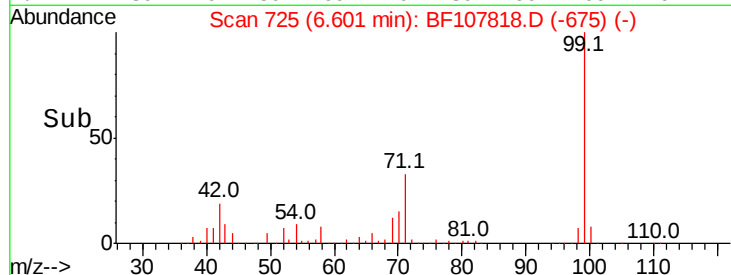
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Abundance Ion 99.00 (98.70 to 99.70): BF1

Ion 42.00 (41.70 to 42.70): BF1

Ion 71.00 (70.70 to 71.70): BF1



#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.24 min Scan# 1004

Delta R.T. -0.01 min

Lab File: BF107818.D

Acq: 30 Jul 2018 23:27

Tgt Ion: 136 Resp: 712174

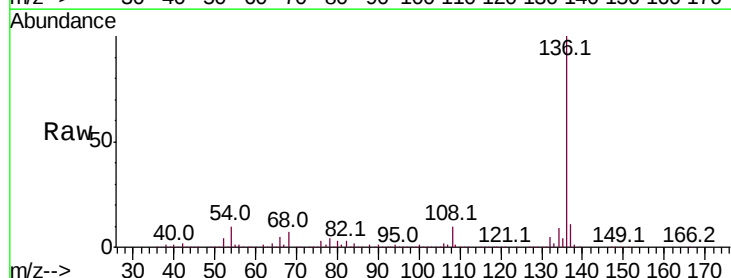
Ion Ratio Lower Upper

136 100

137 11.0 8.9 13.3

54 10.0 6.6 9.8#

68 6.7 5.0 7.4

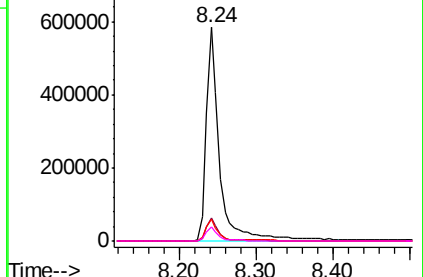
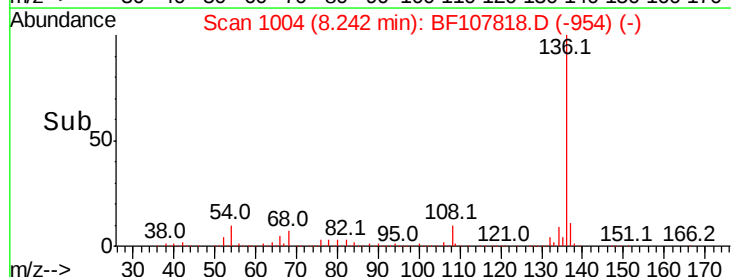


Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BF1

Ion 68.00 (67.70 to 68.70): BF1





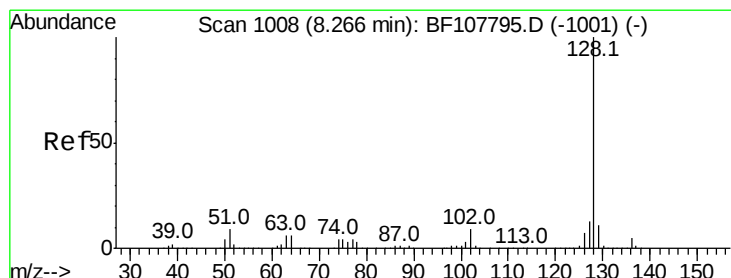
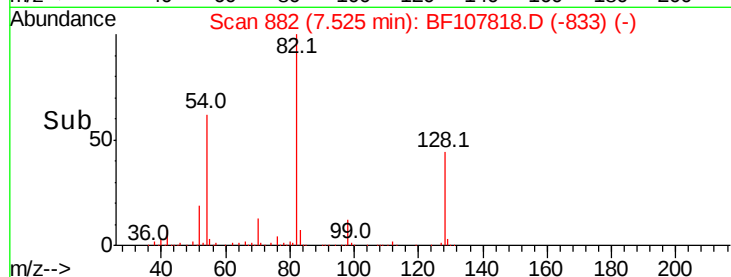
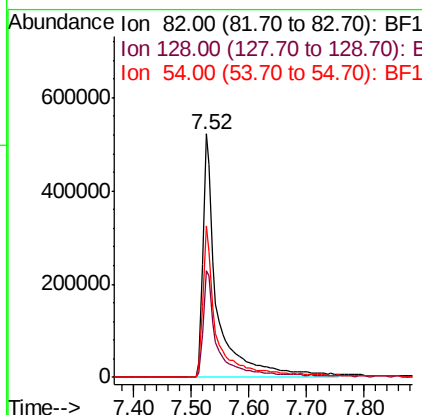
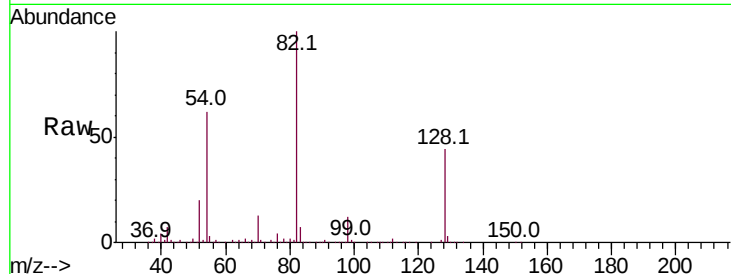
#23
Nitrobenzene-d5
Concen: 75.378 ng
RT: 7.52 min Scan# 882
Delta R.T. -0.01 min
Lab File: BF107818.D
Acq: 30 Jul 2018 23:27

Instrument :
BNA_F
ClientSampleId :
SB-4(3-5)

Tot Ion	Ratio	Lower	Upper
82	100		
128	43.6	36.1	54.1
54	62.3	41.4	62.2

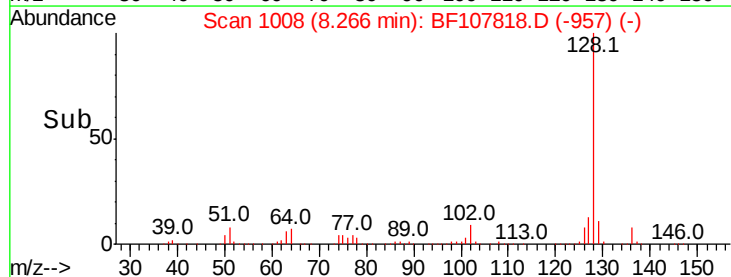
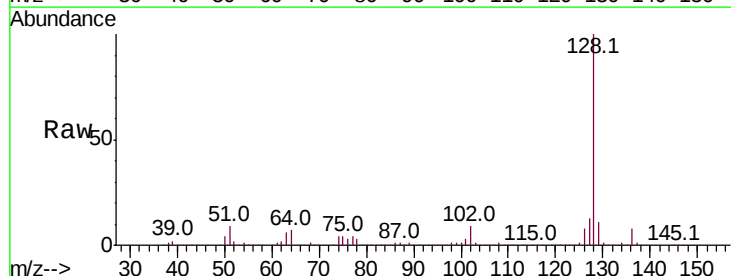
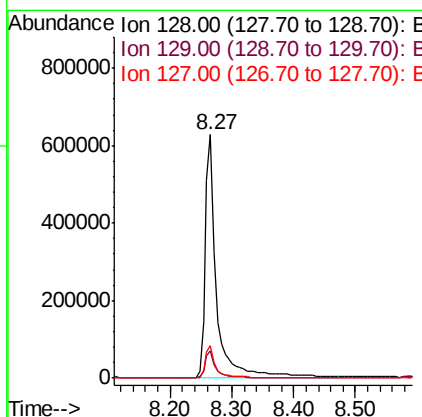
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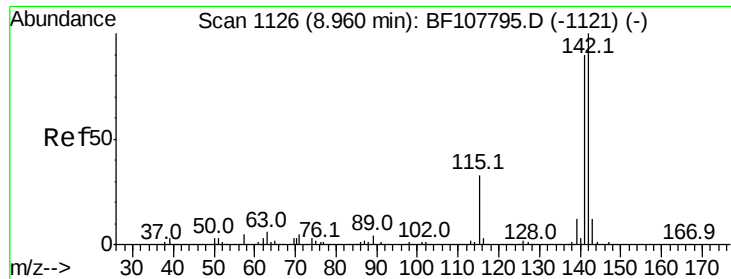
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#31
Naphthalene
Concen: 24.440 ng
RT: 8.27 min Scan# 1008
Delta R.T. -0.00 min
Lab File: BF107818.D
Acq: 30 Jul 2018 23:27

Tgt Ion	Ratio	Lower	Upper
128	100		
129	11.1	8.8	13.2
127	13.4	10.9	16.3





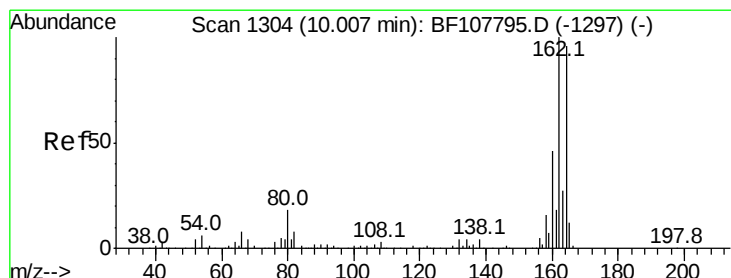
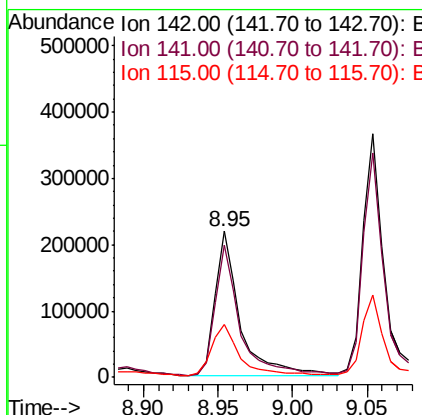
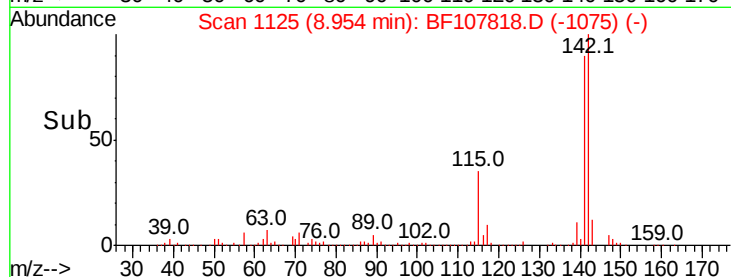
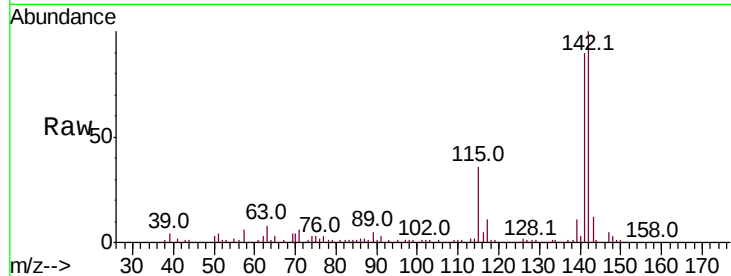
#37
2-Methylnaphthalene
Concen: 12.397 ng
RT: 8.95 min Scan# 1125
Delta R.T. -0.01 min
Lab File: BF107818.D
Acq: 30 Jul 2018 23:27

Instrument :
BNA_F
ClientSampleId :
SB-4(3-5)

Tot Ion:	142	Resp:	257787
Ion Ratio	Lower	Upper	
142	100		
141	90.2	70.8	106.2
115	36.1	26.1	39.1

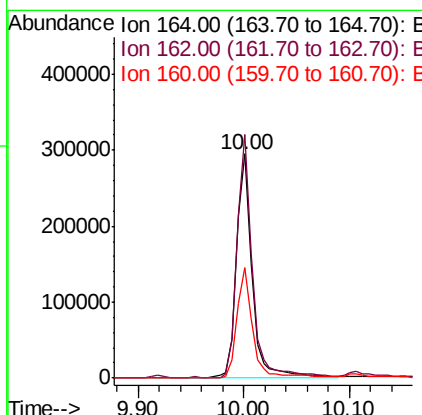
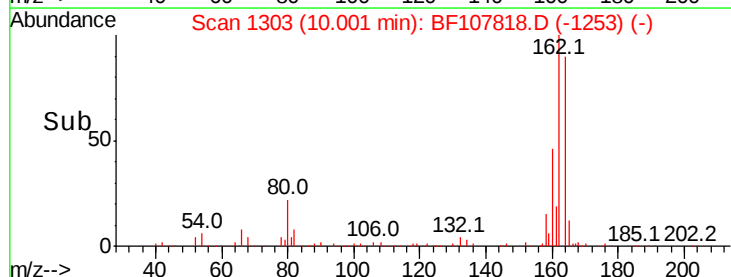
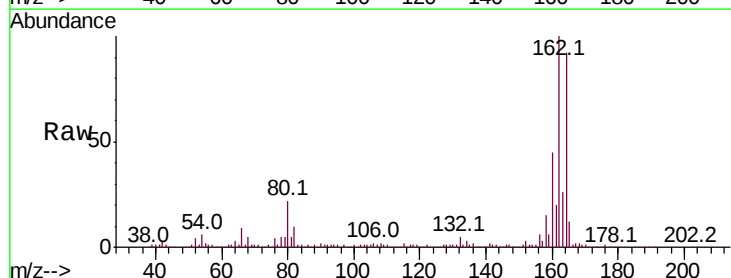
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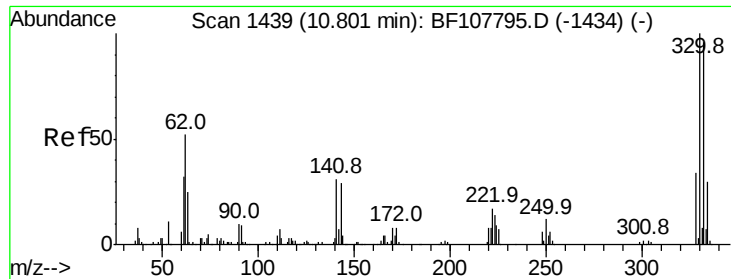
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#38
Acenaphthene-d10
Concen: 20.000 ng
RT: 10.00 min Scan# 1303
Delta R.T. -0.01 min
Lab File: BF107818.D
Acq: 30 Jul 2018 23:27

Tgt Ion:	164	Resp:	297954
Ion Ratio	Lower	Upper	
164	100		
162	108.5	86.1	129.1
160	49.1	38.3	57.5





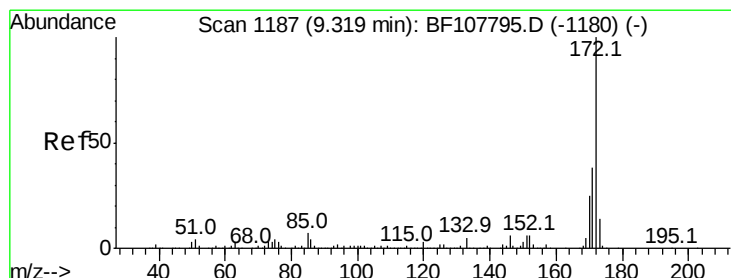
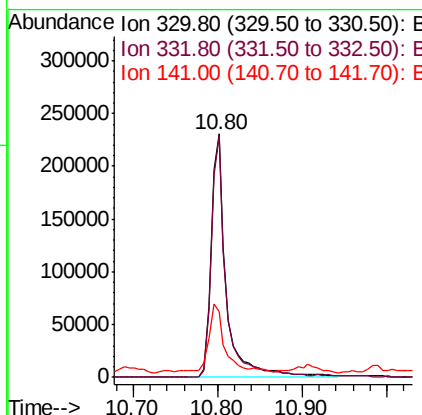
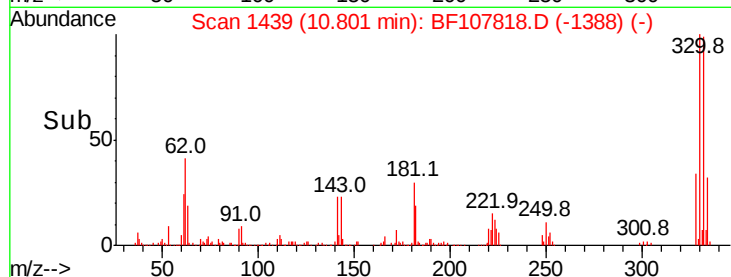
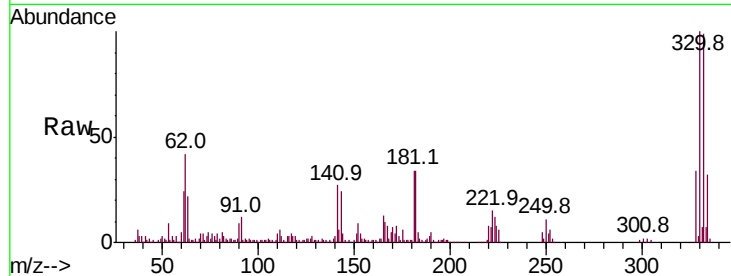
#41
 2,4,6-Tribromophenol
 Concen: 72.941 ng
 RT: 10.80 min Scan# 1439
 Delta R.T. -0.00 min
 Lab File: BF107818.D
 Acq: 30 Jul 2018 23:27

Instrument :
 BNA_F
 ClientSampleId :
 SB-4(3-5)

Tot Ion	Ratio	Resp	Lower	Upper
330	100	295308		
332	96.3	77.0	115.6	
141	29.0	29.9	44.9#	

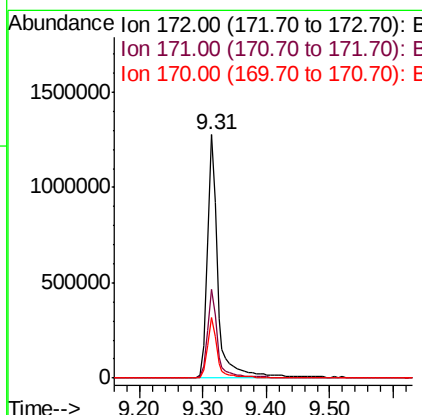
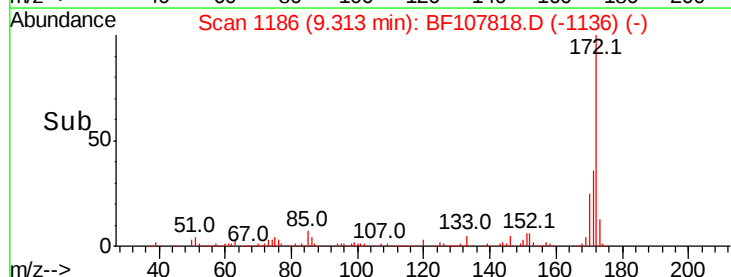
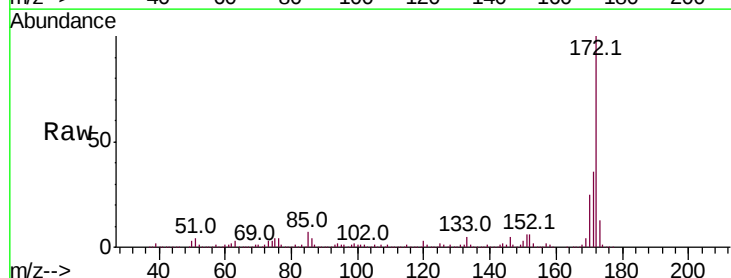
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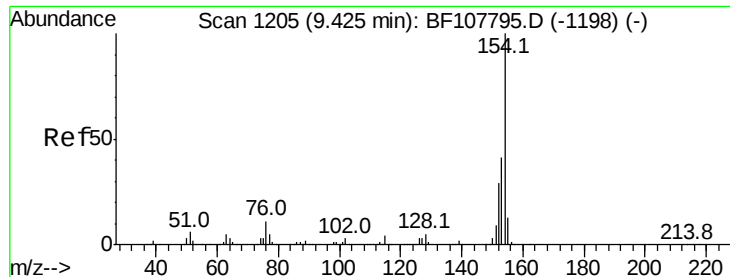
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#44
 2-Fluorobiphenyl
 Concen: 69.499 ng
 RT: 9.31 min Scan# 1186
 Delta R.T. -0.01 min
 Lab File: BF107818.D
 Acq: 30 Jul 2018 23:27

Tgt Ion	Ratio	Resp	Lower	Upper
172	100	1486016		
171	36.3	29.7	44.5	
170	25.0	19.6	29.4	





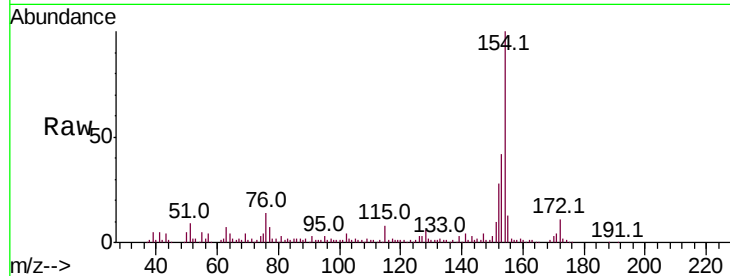
#45
1,1'-Biphenyl
Concen: 6.026 ng
RT: 9.42 min Scan# 1204
Delta R.T. -0.01 min
Lab File: BF107818.D
Acq: 30 Jul 2018 23:27

Instrument :
BNA_F
ClientSampled :
SB-4(3-5)

Tot Ion	Ratio	Resp	Lower	Upper
154	100	163396		
153	42.3	21.3	61.3	
76	14.4	0.0	34.0	

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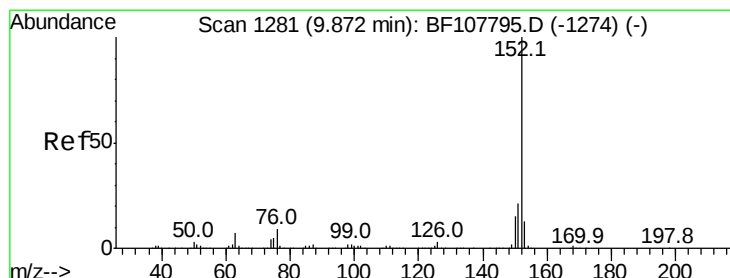
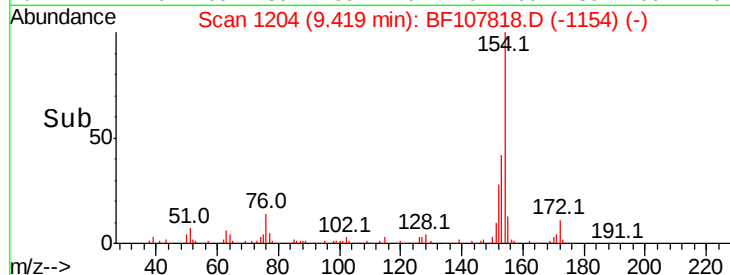
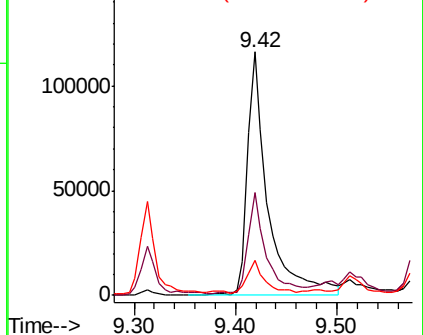


Abundance

Ion 154.00 (153.70 to 154.70): E

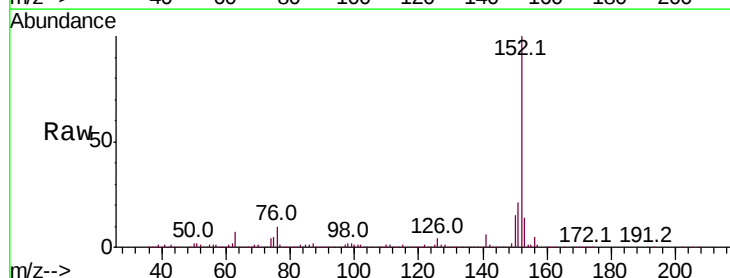
Ion 153.00 (152.70 to 153.70): E

Ion 76.00 (75.70 to 76.70): BF1



#48
Acenaphthylene
Concen: 32.022 ng
RT: 9.87 min Scan# 1280
Delta R.T. -0.01 min
Lab File: BF107818.D
Acq: 30 Jul 2018 23:27

Tgt Ion	Ratio	Resp	Lower	Upper
152	100	1015097		
151	21.1	16.3	24.5	
153	14.2	10.7	16.1	

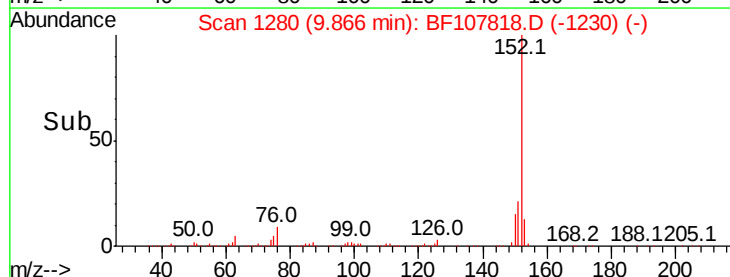
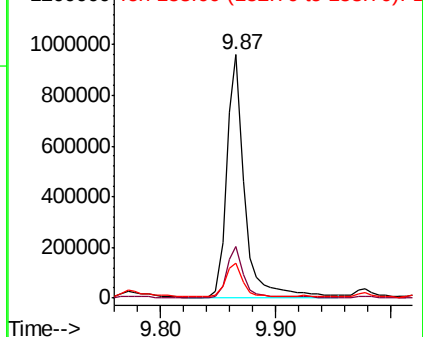


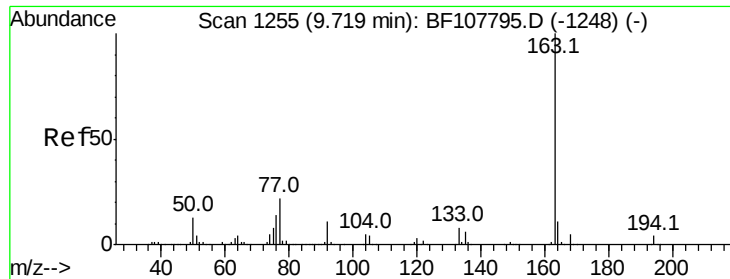
Abundance

Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

Ion 153.00 (152.70 to 153.70): E





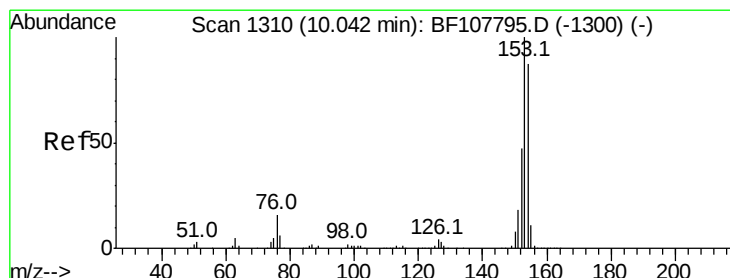
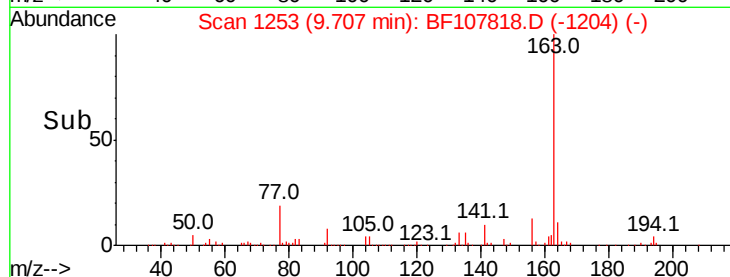
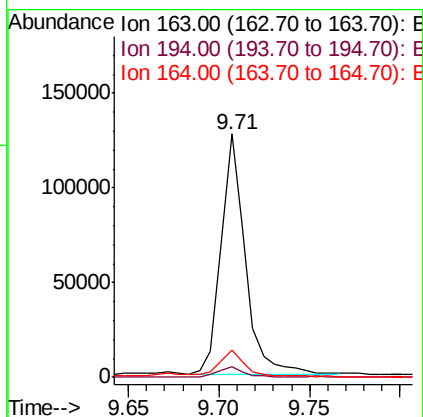
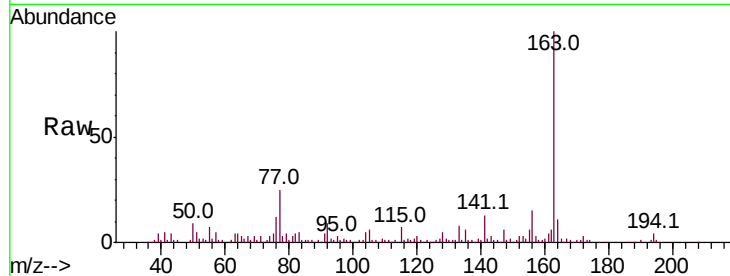
#49
Dimethylphthalate
Concen: 5.307 ng
RT: 9.71 min Scan# 1253
Delta R.T. -0.01 min
Lab File: BF107818.D
Acq: 30 Jul 2018 23:27

Instrument :
BNA_F
ClientSampleId :
SB-4(3-5)

Tot Ion	Ratio	Resp	Lower	Upper
163	100	118741		
194	4.2	2.7	4.1#	
164	11.2	8.2	12.2	

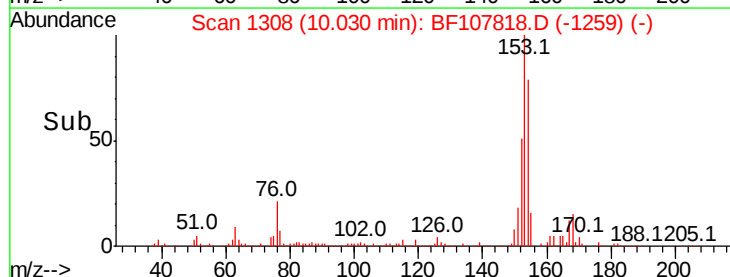
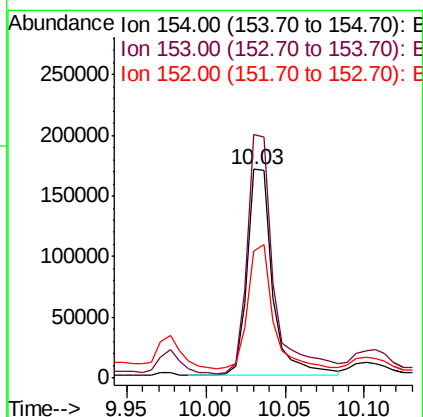
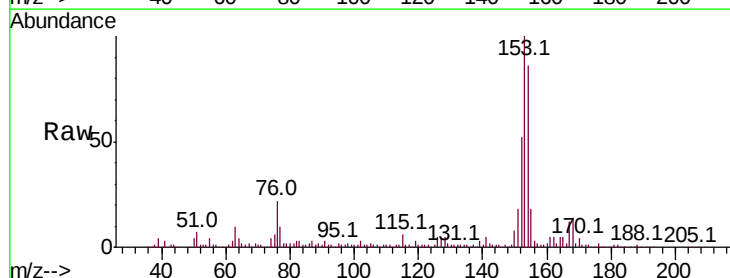
Manual Integrations
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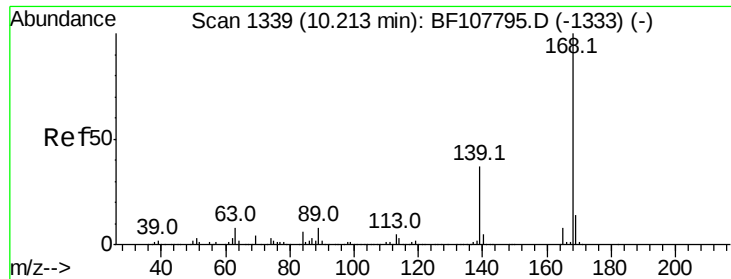
Sohil
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#51
Acenaphthene
Concen: 10.266 ng
RT: 10.03 min Scan# 1308
Delta R.T. -0.01 min
Lab File: BF107818.D
Acq: 30 Jul 2018 23:27

Tgt Ion	Ratio	Resp	Lower	Upper
154	100	189047		
153	116.6	91.2	136.8	
152	61.2	43.8	65.8	





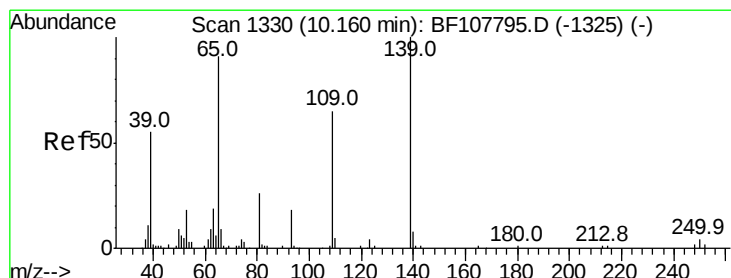
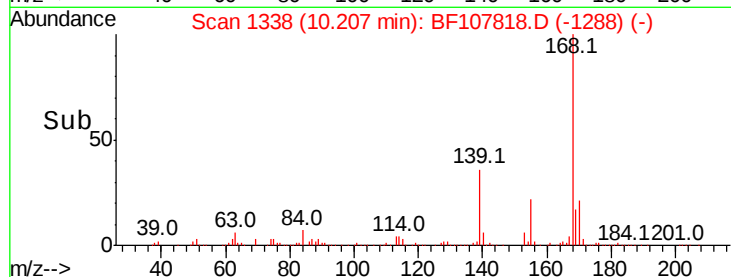
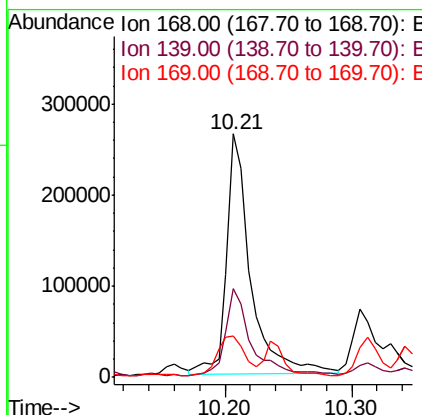
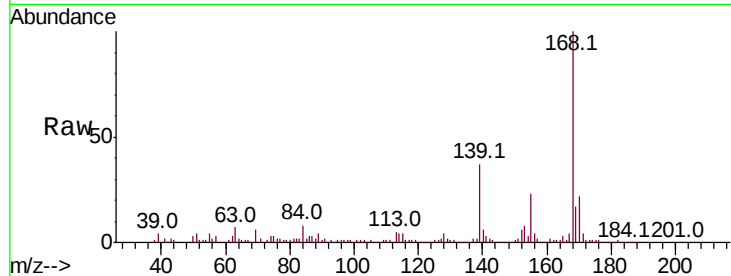
#54
Dibenzenofuran
Concen: 12.104 ng
RT: 10.21 min Scan# 1338
Delta R.T. -0.01 min
Lab File: BF107818.D
Acq: 30 Jul 2018 23:27

Instrument :
BNA_F
ClientSampled :
SB-4(3-5)

Tot Ion	Ratio	Lower	Upper
168	100		
139	36.7	30.1	45.1
169	17.2	10.9	16.3

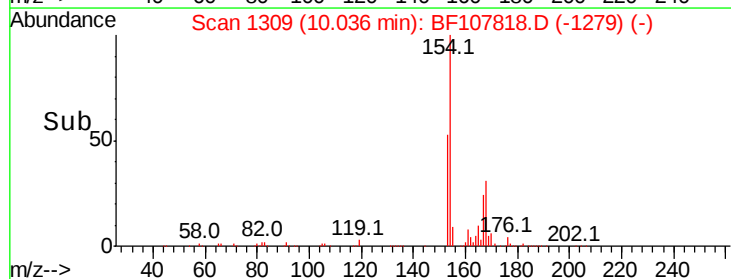
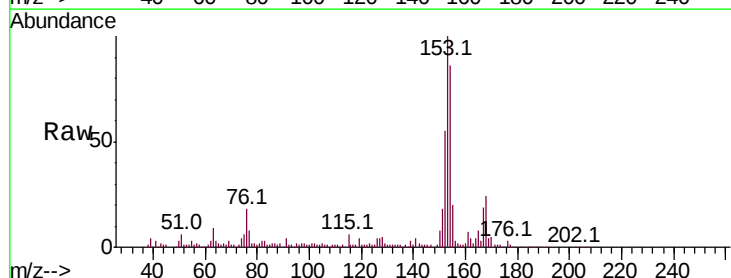
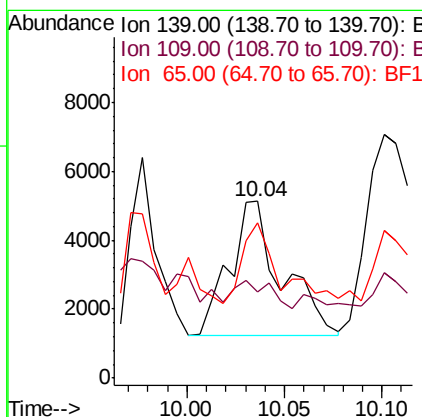
Manual Integrations
APPROVED

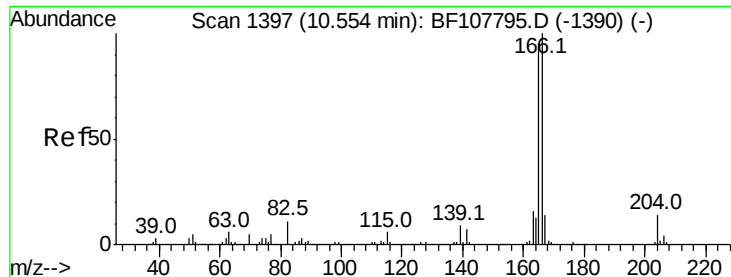
Sohil
7/31/2018 2:42:51 PM



#55
4-Nitrophenol
Concen: 11.516 ng
RT: 10.04 min Scan# 1309
Delta R.T. -0.12 min
Lab File: BF107818.D
Acq: 30 Jul 2018 23:27

Tgt Ion	Ratio	Lower	Upper
139	100		
109	48.7	48.4	88.4
65	88.0	72.6	112.6





#57

Fluorene

Concen: 30.962 ng

RT: 10.55 min Scan# 1397

Delta R.T. -0.00 min

Lab File: BF107818.D

Acq: 30 Jul 2018 23:27

Instrument :

BNA_F

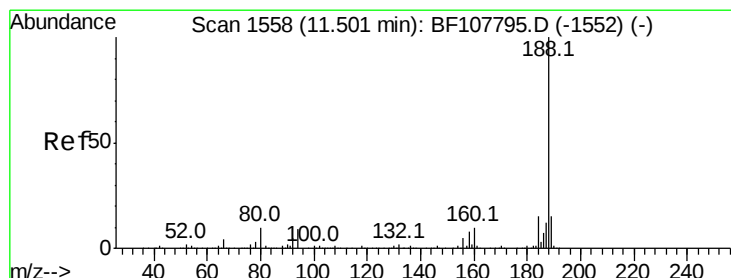
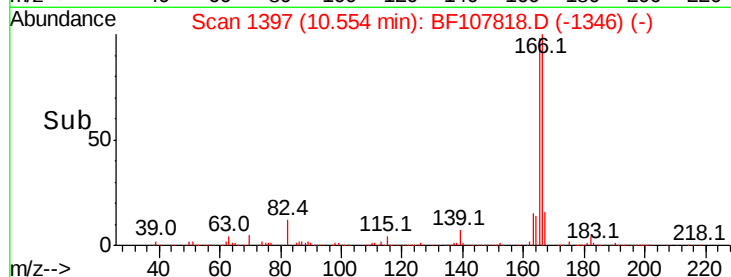
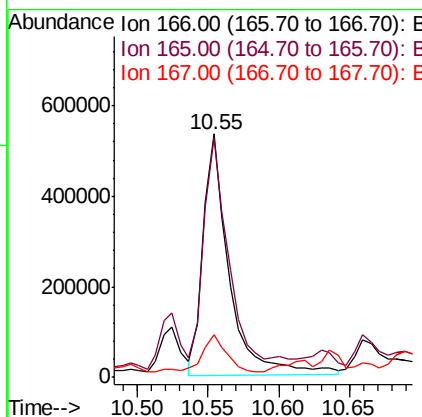
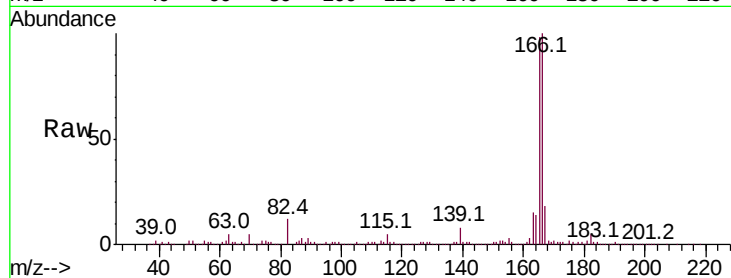
ClientSampleId :

SB-4(3-5)

Tot Ion	Ratio	Lower	Upper
166	100		
165	98.4	79.8	119.8
167	17.6	10.6	16.0

Manual Integrations
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#63

Phenanthrene-d10

Concen: 20.000 ng

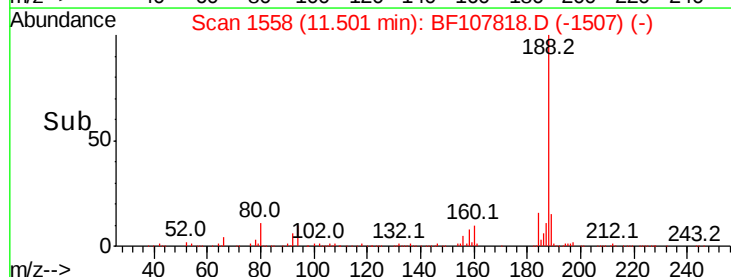
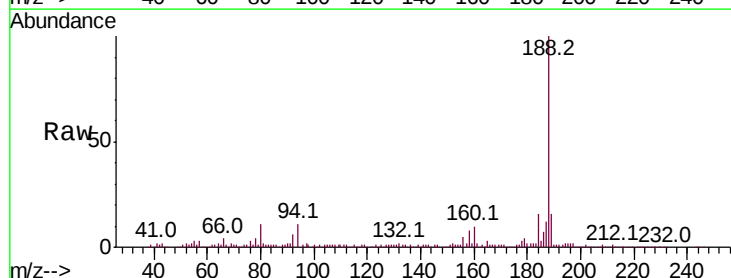
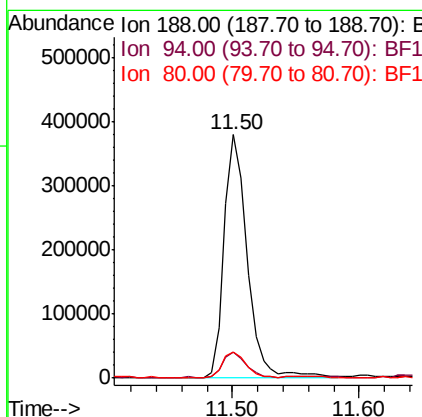
RT: 11.50 min Scan# 1558

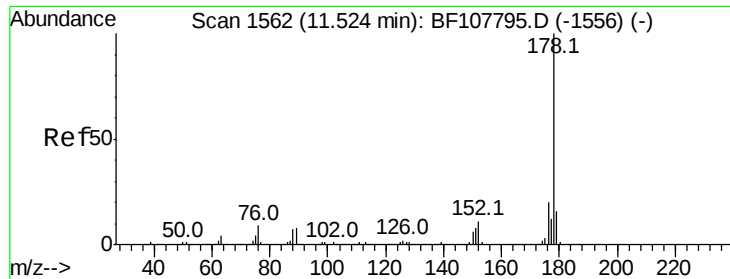
Delta R.T. -0.00 min

Lab File: BF107818.D

Acq: 30 Jul 2018 23:27

Tgt Ion	Ratio	Lower	Upper
188	100		
94	10.6	8.5	12.7
80	10.9	9.2	13.8





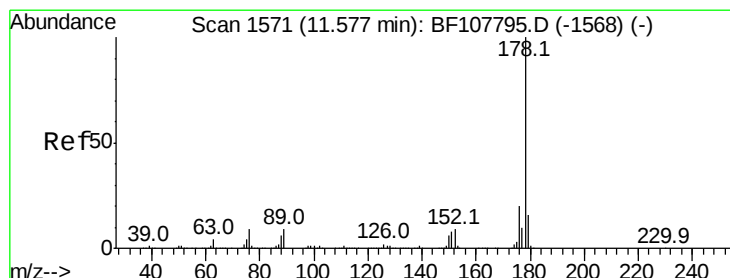
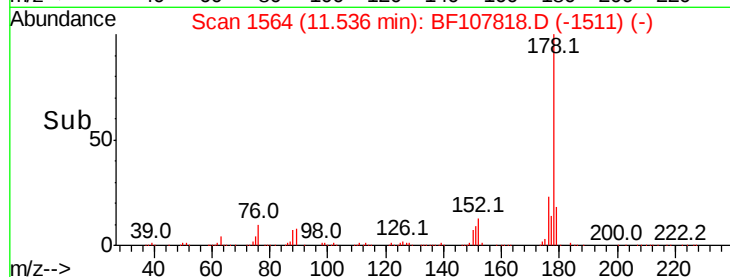
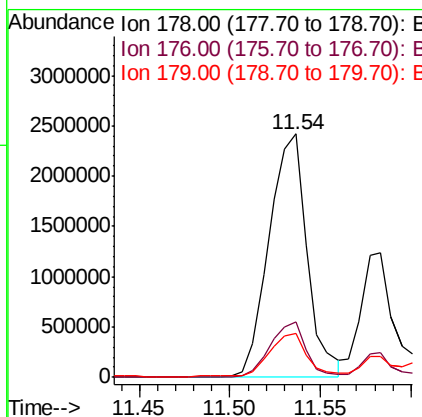
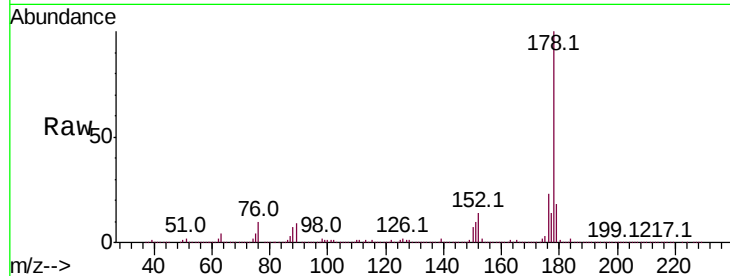
#70
Phenanthrene
Concen: 154.346 ng
RT: 11.54 min Scan# 1564
Delta R.T. 0.01 min
Lab File: BF107818.D
Acq: 30 Jul 2018 23:27

Instrument :
BNA_F
ClientSampleId :
SB-4(3-5)

Tot Ion:178 Resp: 3519832
Ion Ratio Lower Upper
178 100
176 22.8 15.8 23.8
179 18.2 13.0 19.6

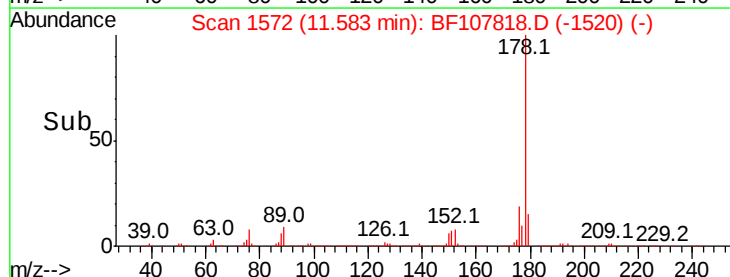
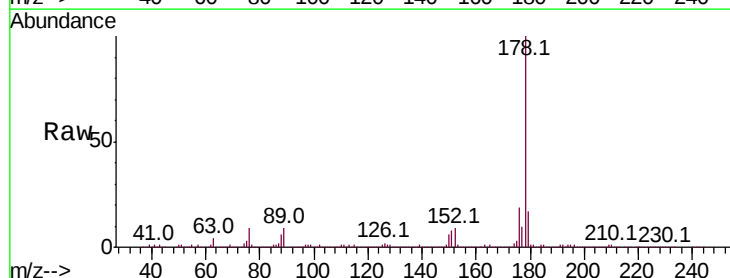
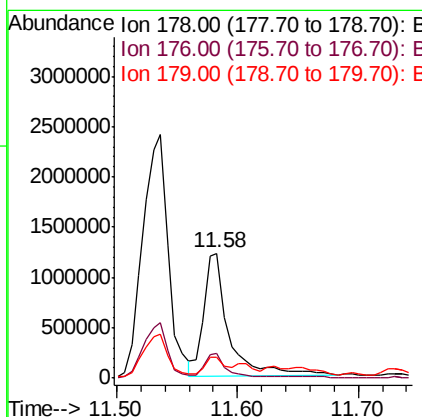
Manual Integrations
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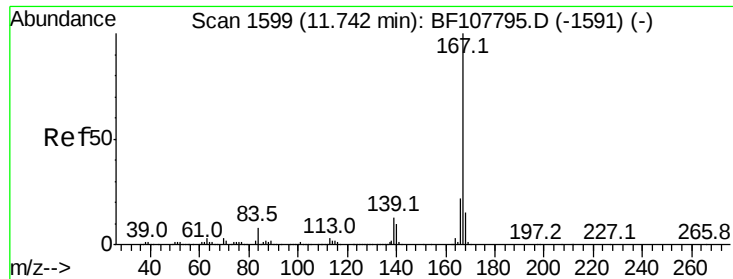
Sohil
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#71
Anthracene
Concen: 66.002 ng
RT: 11.58 min Scan# 1572
Delta R.T. 0.01 min
Lab File: BF107818.D
Acq: 30 Jul 2018 23:27

Tgt Ion:178 Resp: 1736089
Ion Ratio Lower Upper
178 100
176 19.4 15.4 23.2
179 16.6 12.6 19.0





#72

Carbazole

Concen: 4.540 ng

RT: 11.74 min Scan# 1599

Delta R.T. -0.00 min

Lab File: BF107818.D

Acq: 30 Jul 2018 23:27

Instrument :

BNA_F

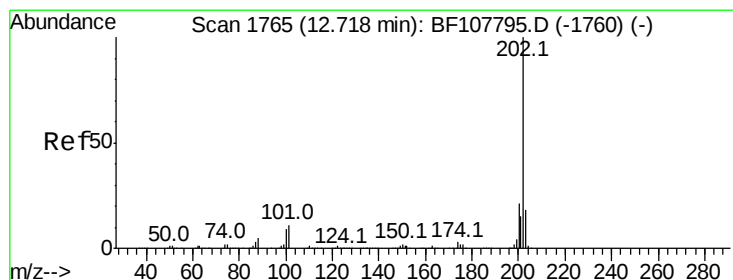
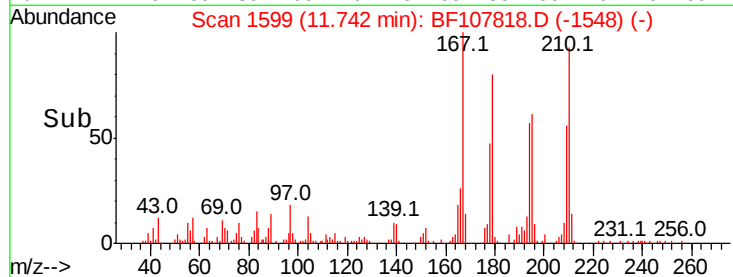
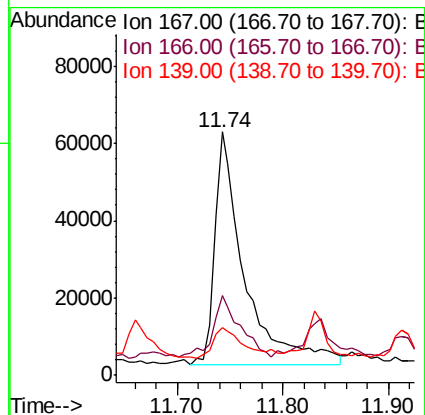
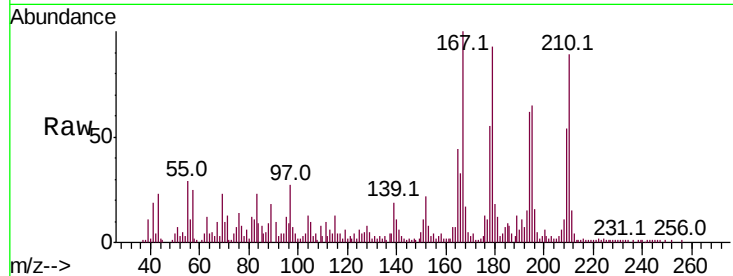
ClientSampleId :

SB-4(3-5)

Tot Ion:	167	Resp:	118021
Ion Ratio	Lower	Upper	
167	100		
166	32.8	17.6	26.4#
139	19.4	10.9	16.3#

Manual Integrations
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#74

Fluoranthene

Concen: 129.943 ng

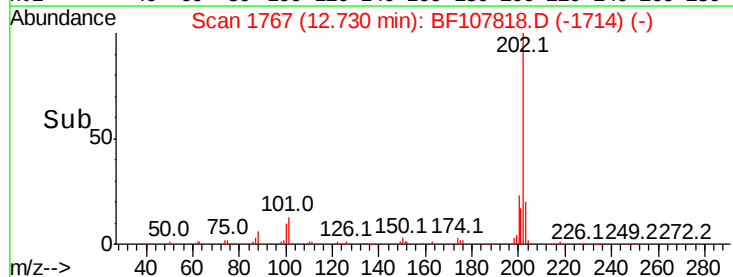
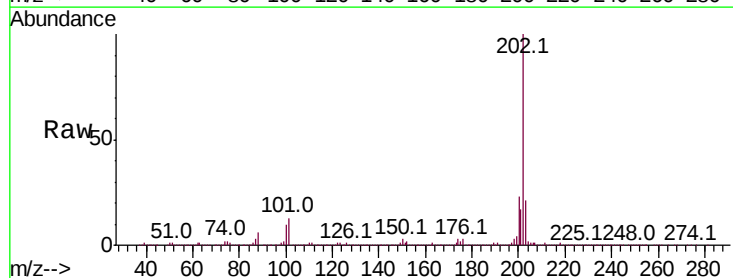
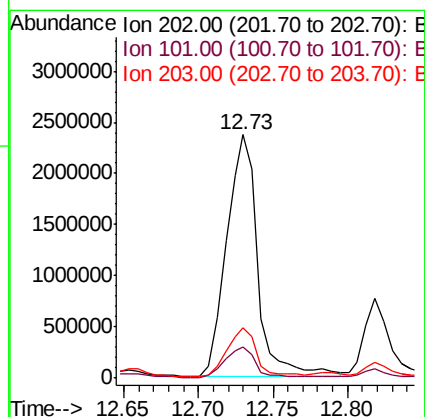
RT: 12.73 min Scan# 1767

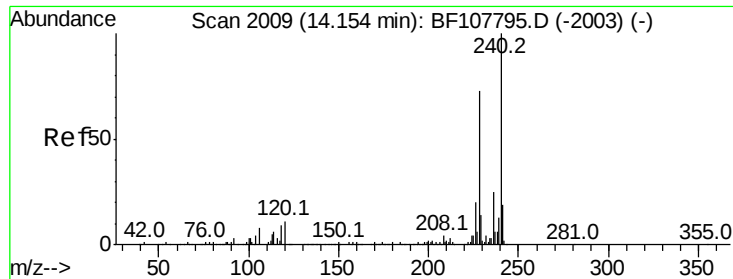
Delta R.T. 0.01 min

Lab File: BF107818.D

Acq: 30 Jul 2018 23:27

Tgt Ion:	202	Resp:	3481319
Ion Ratio	Lower	Upper	
202	100		
101	12.8	0.0	34.1
203	20.5	0.0	38.1





#75

Chrysene-d12

Concen: 20.000 ng

RT: 14.17 min Scan# 2011

Delta R.T. 0.01 min

Lab File: BF107818.D

Acq: 30 Jul 2018 23:27

Instrument :

BNA_F

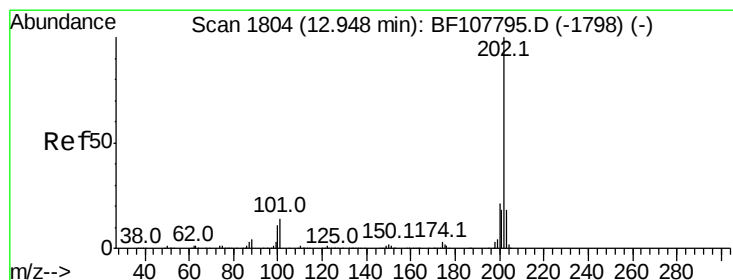
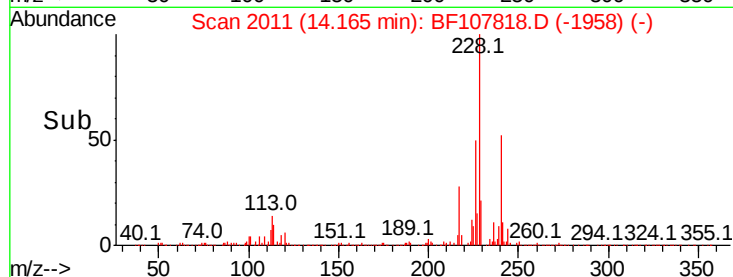
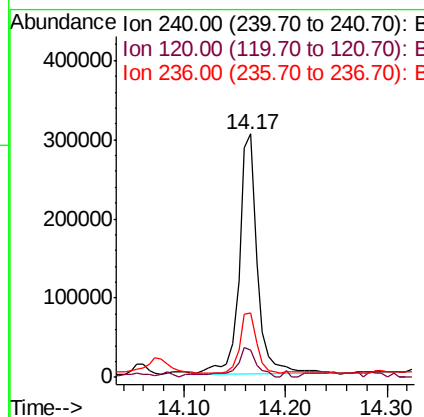
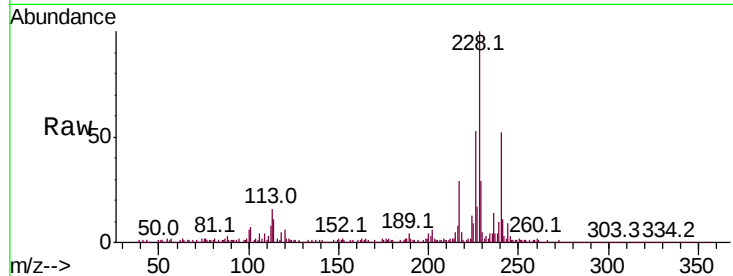
ClientSampled :

SB-4(3-5)

Tot Ion:	240	Resp:	374096
Ion Ratio	Lower	Upper	
240	100		
120	11.1	9.5	14.3
236	26.4	20.7	31.1

Manual Integrations
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#77

Pyrene

Concen: 143.488 ng

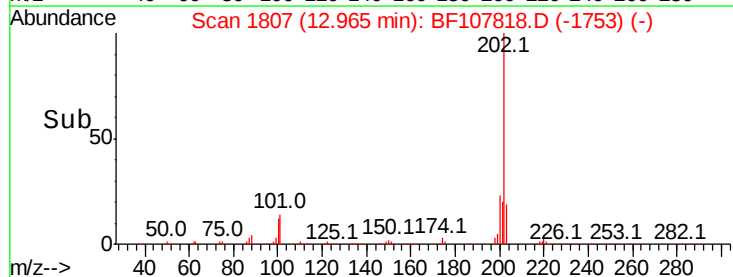
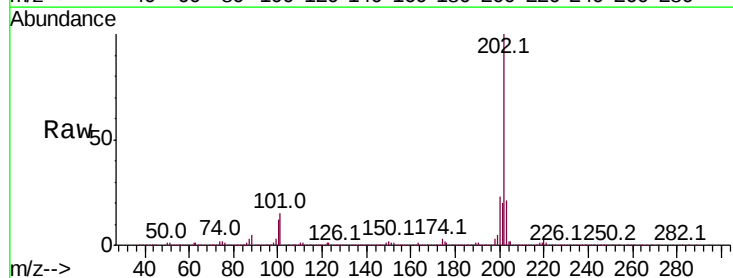
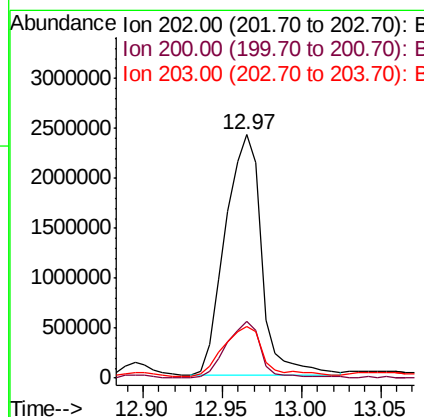
RT: 12.97 min Scan# 1807

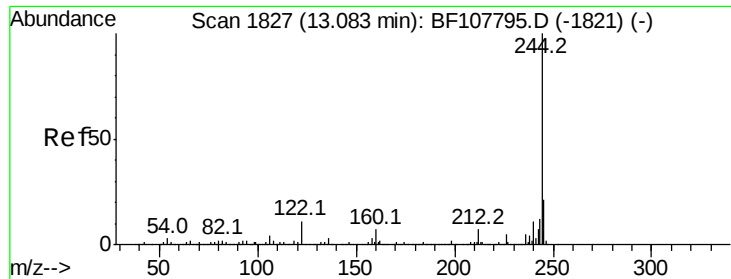
Delta R.T. 0.02 min

Lab File: BF107818.D

Acq: 30 Jul 2018 23:27

Tgt Ion:	202	Resp:	3865281
Ion Ratio	Lower	Upper	
202	100		
200	23.2	17.4	26.2
203	21.2	14.3	21.5





#78

Terphenyl-d14

Concen: 64.771 ng

RT: 13.08 min Scan# 1827

Delta R.T. -0.00 min

Lab File: BF107818.D

Acq: 30 Jul 2018 23:27

Instrument :

BNA_F

ClientSampled :

SB-4(3-5)

Tot Ion:244 Resp: 1117425

Ion Ratio Lower Upper

244 100

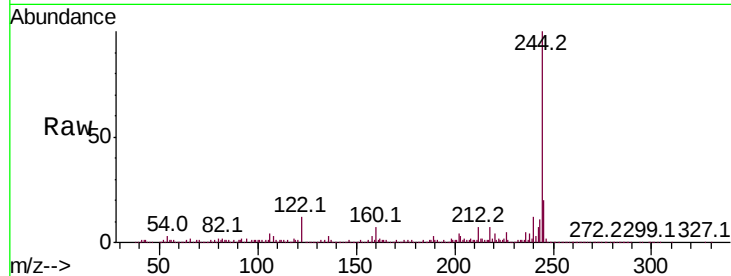
212 7.0 5.4 8.0

122 11.8 11.0 16.4

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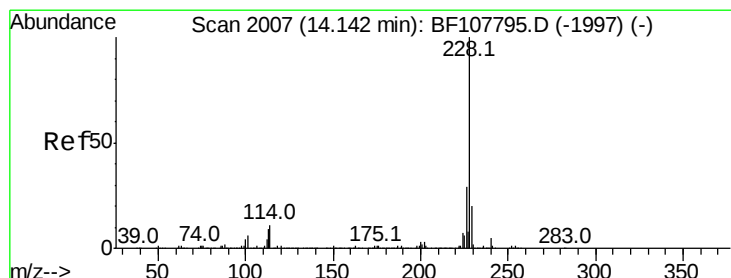
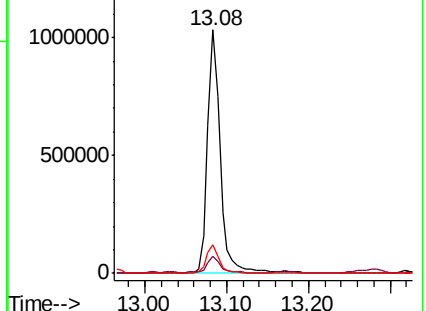
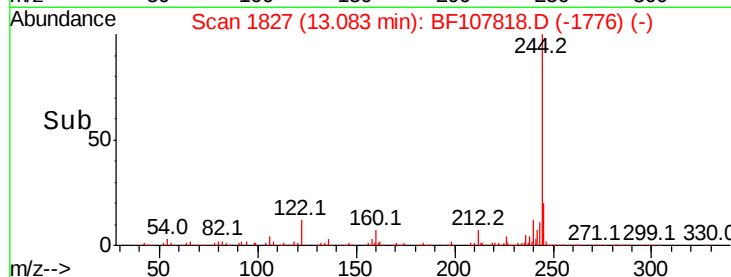
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Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E



#80

Benzo(a)anthracene

Concen: 112.014 ng

RT: 14.15 min Scan# 2009

Delta R.T. 0.01 min

Lab File: BF107818.D

Acq: 30 Jul 2018 23:27

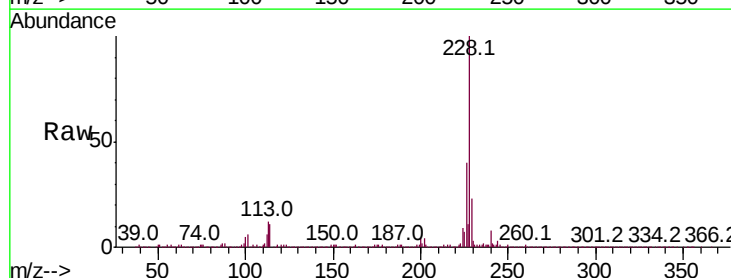
Tgt Ion:228 Resp: 2373713

Ion Ratio Lower Upper

228 100

226 39.8 22.6 33.8#

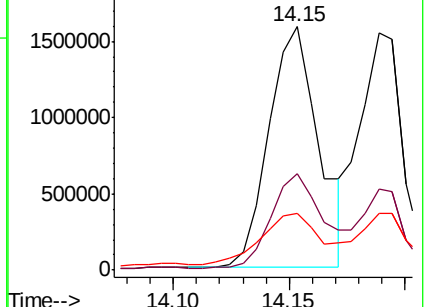
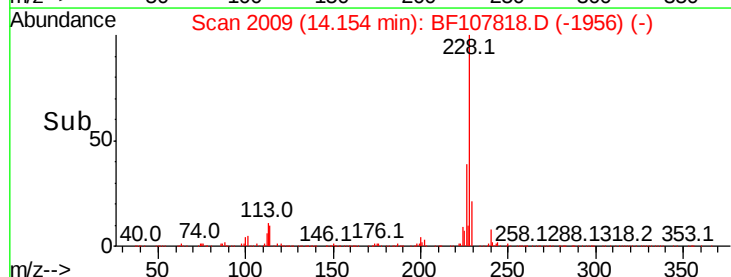
229 23.4 15.8 23.6

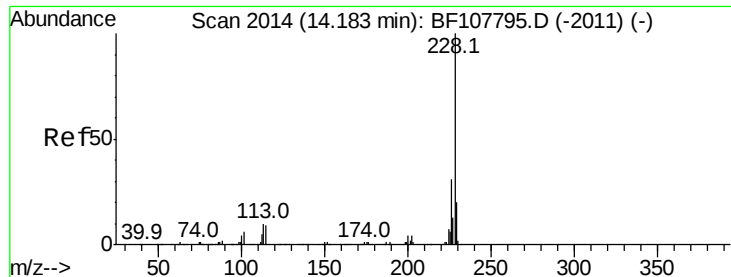


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#82

Chrysene

Concen: 92.086 ng

RT: 14.19 min Scan# 2015

Delta R.T. 0.01 min

Lab File: BF107818.D

Acq: 30 Jul 2018 23:27

Instrument :

BNA_F

ClientSampleId :

SB-4(3-5)

Tot Ion:228 Resp: 2104786

Ion Ratio Lower Upper

228 100

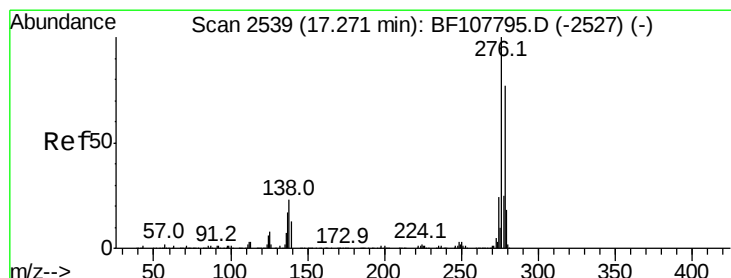
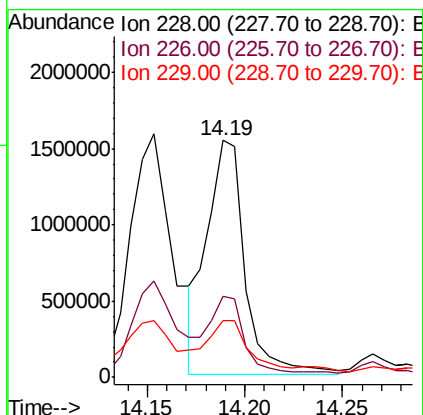
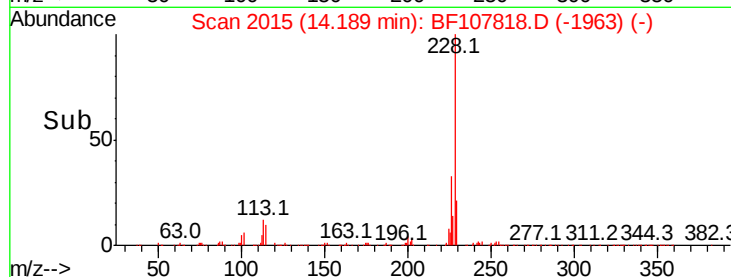
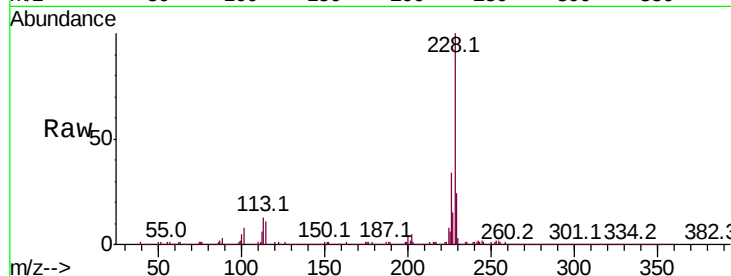
226 34.0 25.0 37.6

229 24.0 16.2 24.4

Manual Integrations
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#85

Indeno(1,2,3-cd)pyrene

Concen: 57.576 ng

RT: 17.29 min Scan# 2542

Delta R.T. 0.02 min

Lab File: BF107818.D

Acq: 30 Jul 2018 23:27

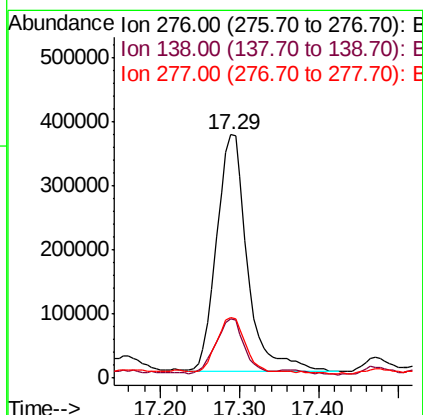
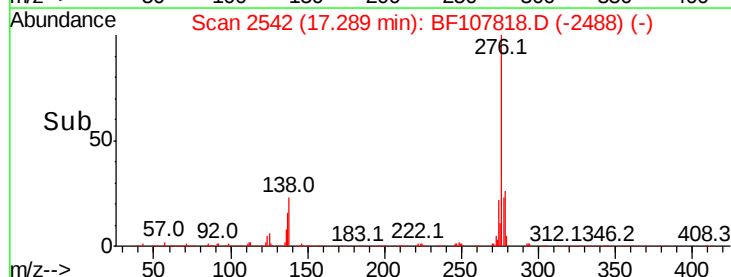
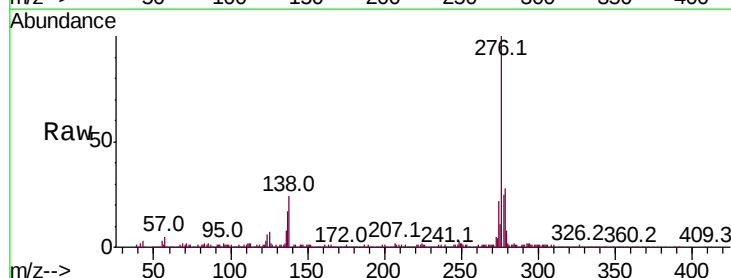
Tgt Ion:276 Resp: 1000992

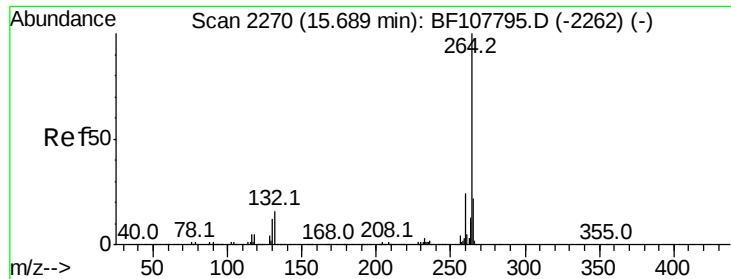
Ion Ratio Lower Upper

276 100

138 21.0 25.0 37.6#

277 20.5 20.1 30.1





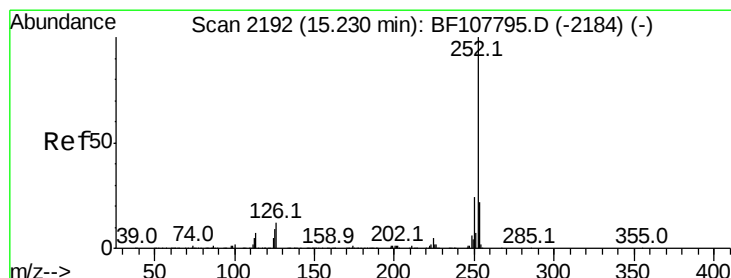
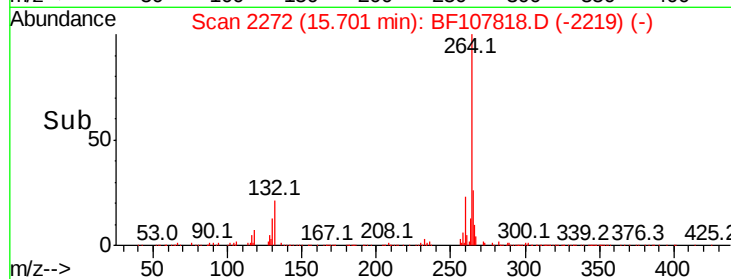
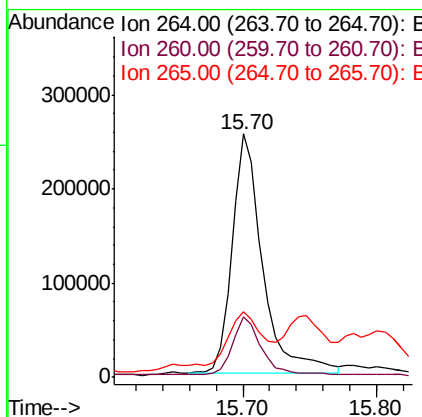
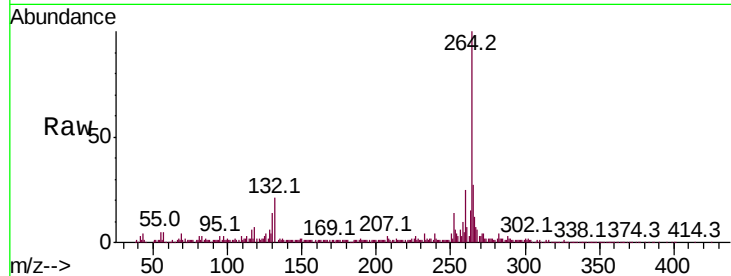
#86
Pervlene-d12
Concen: 20.000 ng
RT: 15.70 min Scan# 2272
Delta R.T. 0.01 min
Lab File: BF107818.D
Acq: 30 Jul 2018 23:27

Instrument :
BNA_F
ClientSampleId :
SB-4(3-5)

Tot Ion	Ratio	Lower	Upper
264	100		
260	24.7	19.2	28.8
265	27.2	17.5	26.3

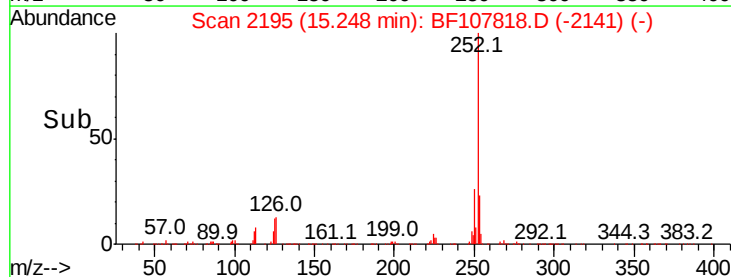
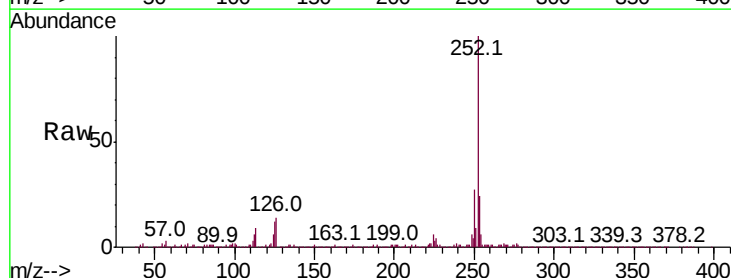
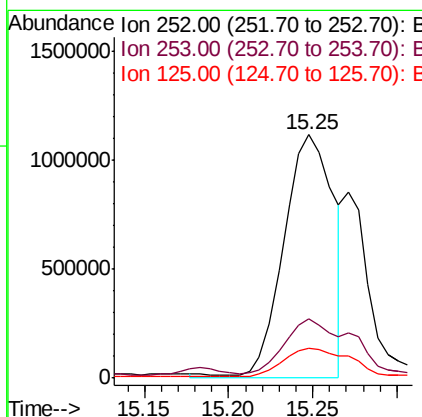
Manual Integrations
APPROVED

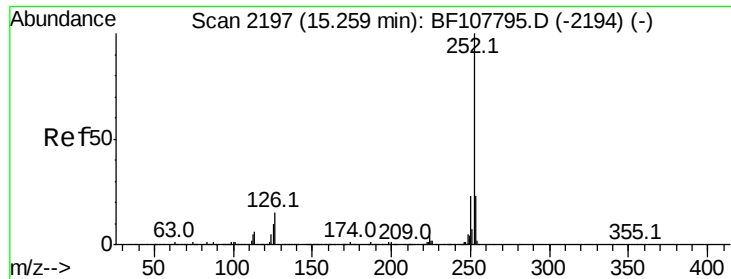
Sohil
7/31/2018 2:42:51 PM



#87
Benzo(b)fluoranthene
Concen: 115.783 ng m
RT: 15.25 min Scan# 2195
Delta R.T. 0.02 min
Lab File: BF107818.D
Acq: 30 Jul 2018 23:27

Tgt Ion	Ratio	Lower	Upper
252	100		
253	24.1	17.0	25.6
125	12.5	9.0	13.6





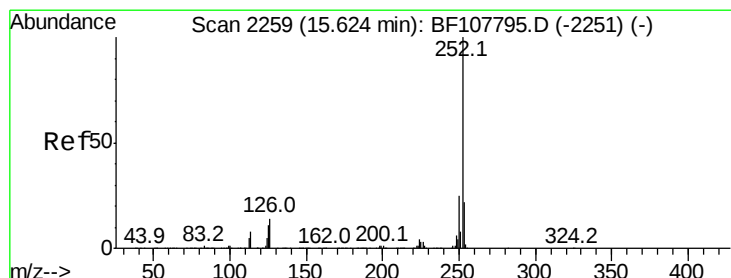
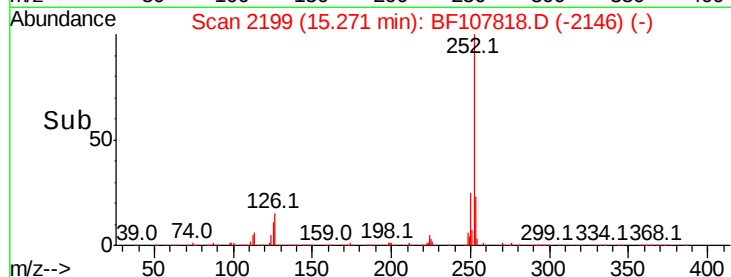
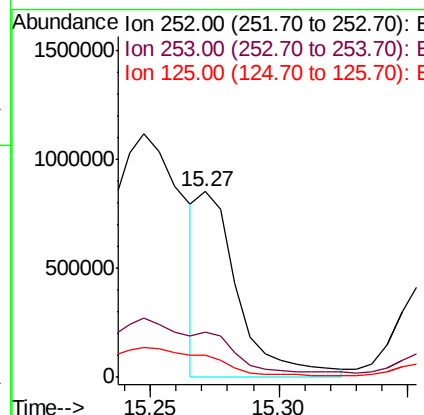
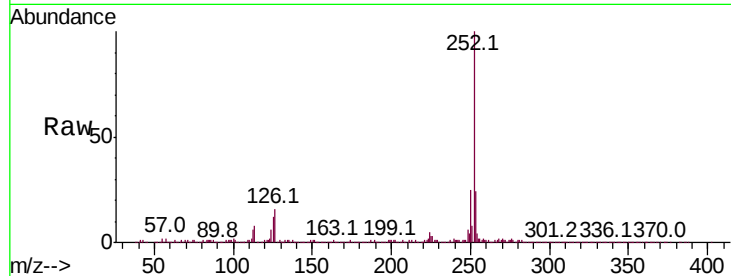
#88
Benzo(k)fluoranthene
Concen: 37.352 ng m
RT: 15.27 min Scan# 2199
Delta R.T. 0.01 min
Lab File: BF107818.D
Acq: 30 Jul 2018 23:27

Instrument :
BNA_F
ClientSampled :
SB-4(3-5)

Tot Ion	Ratio	Lower	Upper
252	100		
253	24.4	17.9	26.9
125	11.9	10.2	15.2

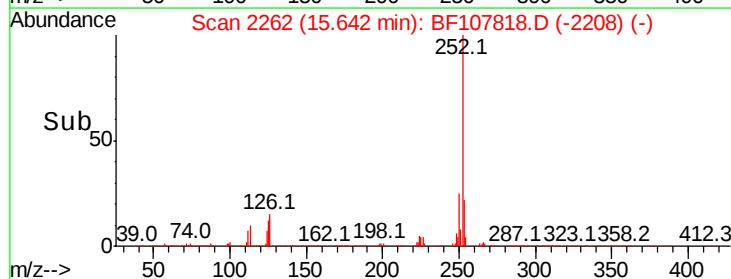
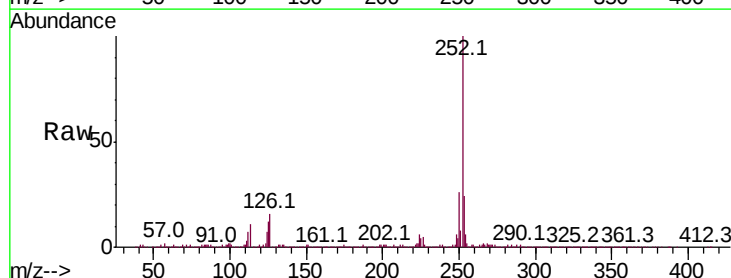
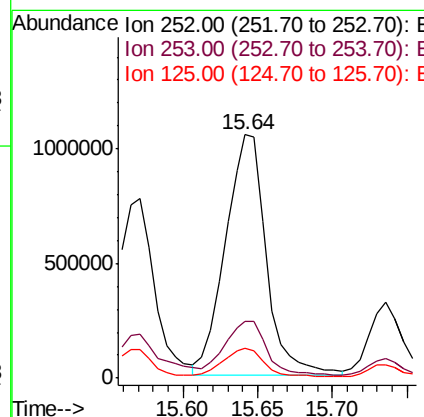
Manual Integrations
APPROVED

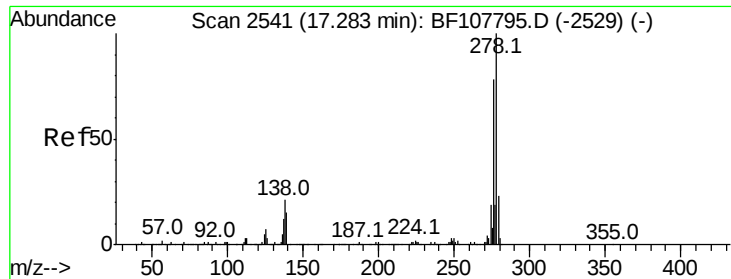
Sohil
7/31/2018 2:42:51 PM



#89
Benzo(a)pyrene
Concen: 96.580 ng
RT: 15.64 min Scan# 2262
Delta R.T. 0.02 min
Lab File: BF107818.D
Acq: 30 Jul 2018 23:27

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.6	17.1	25.7
125	12.3	9.8	14.6





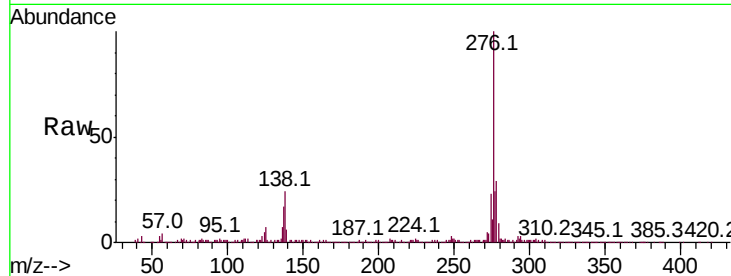
#90
Dibenzo(a,h)anthracene
Concen: 13.690 ng
RT: 17.29 min Scan# 2543
Delta R.T. 0.01 min
Lab File: BF107818.D
Acq: 30 Jul 2018 23:27

Instrument :
BNA_F
ClientSampled :
SB-4(3-5)

Tot Ion	Ratio	Lower	Upper
278	100		
139	21.3	15.9	23.9
279	30.0	19.0	28.4

Manual Integrations
APPROVED

Sohil
7/31/2018 2:42:51 PM

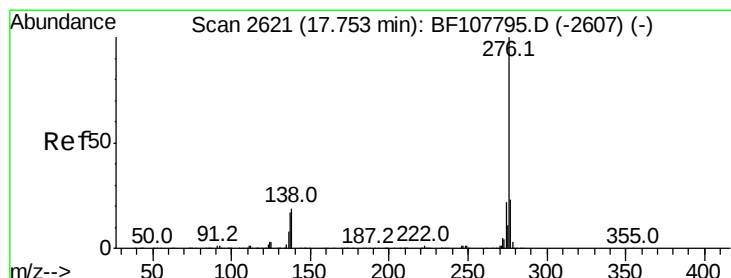
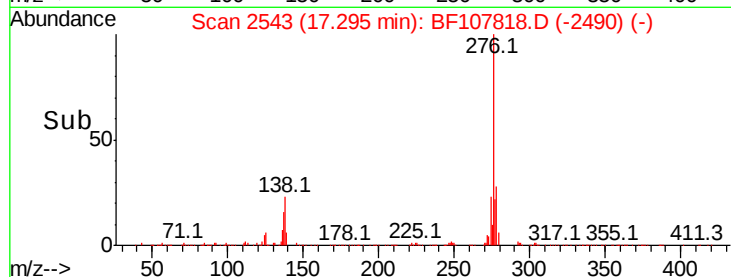
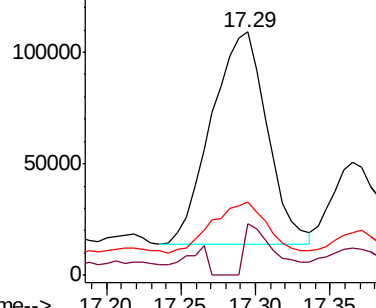


Abundance

Ion 278.00 (277.70 to 278.70): E

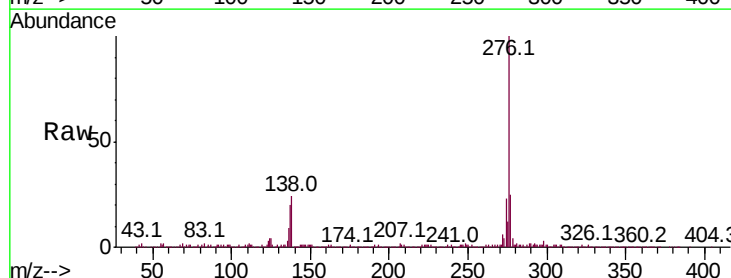
Ion 139.00 (138.70 to 139.70): E

Ion 279.00 (278.70 to 279.70): E



#91
Benzo(g,h,i)perylene
Concen: 58.084 ng
RT: 17.78 min Scan# 2625
Delta R.T. 0.02 min
Lab File: BF107818.D
Acq: 30 Jul 2018 23:27

Tgt Ion	Ratio	Lower	Upper
276	100		
277	24.7	17.9	26.9
138	24.5	21.8	32.8



Abundance

Ion 276.00 (275.70 to 276.70): E

Ion 277.00 (276.70 to 277.70): E

Ion 138.00 (137.70 to 138.70): E

