

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF091418\
 Data File : BF109021.D
 Acq On : 15 Sep 2018 3:40
 Operator : JU/SJ
 Sample : J4898-02DL 2X
 Misc :
 ALS Vial : 28 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 ROLLOFF02-COMP-FILLDL

Manual Integrations
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Sohil
 9/17/2018 1:59:42 PM

Quant Time: Sep 15 07:05:26 2018
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF091418.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Sep 14 13:26:52 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.72	152	152321	20.00	ng	0.00
21) Naphthalene-d8	8.00	136	604141	20.00	ng	0.00
38) Acenaphthene-d10	9.75	164	297283	20.00	ng	0.00
63) Phenanthrene-d10	11.22	188	576443	20.00	ng	0.00
75) Chrysene-d12	13.85	240	425159	20.00	ng	-0.01
86) Perylene-d12	15.25	264	429483	20.00	ng	0.00

System Monitoring Compounds						
5) 2-Fluorophenol	5.31	112	253922	27.69	ng	-0.01
7) Phenol-d6	6.34	99	332985	28.16	ng	-0.02
23) Nitrobenzene-d5	7.27	82	201251	18.68	ng	-0.02
41) 2,4,6-Tribromophenol	10.53	330	87346	27.07	ng	-0.01
44) 2-Fluorobiphenyl	9.07	172	377219	19.88	ng	-0.01
78) Terphenyl-d14	12.81	244	395145	22.03	ng	0.00

Target Compounds				Qvalue		
20) 3+4-Methylphenols	7.12	107	62072	6.155	ng	86
27) 2,4-Dimethylphenol	7.67	122	26658	3.277	ng	# 90
31) Naphthalene	8.02	128	1430360	51.011	ng	99
37) 2-Methylnaphthalene	8.71	142	271513	14.854	ng	99
45) 1,1'-Biphenyl	9.17	154	84197	3.540	ng	98
48) Acenaphthylene	9.61	152	371949	12.952	ng	98
51) Acenaphthene	9.78	154	70203	3.926	ng	99
54) Dibenzofuran	9.95	168	279248	10.806	ng	# 96
57) Fluorene	10.30	166	320727	18.624	ng	99
70) Phenanthrene	11.25	178	1121613	39.693	ng	98
71) Anthracene	11.30	178	460437	16.074	ng	99
72) Carbazole	11.45	167	120241	4.241	ng	97
74) Fluoranthene	12.43	202	725769	24.329	ng	98
77) Pyrene	12.66	202	609417	19.297	ng	99
80) Benzo(a)anthracene	13.84	228	274484	10.664	ng	# 90
82) Chrysene	13.87	228	227028m	8.815	ng	
85) Indeno(1,2,3-cd)pyrene	16.59	276	69006	3.352	ng	# 91
87) Benzo(b)fluoranthene	14.85	252	191981m	8.080	ng	
88) Benzo(k)fluoranthene	14.88	252	61539m	2.773	ng	
89) Benzo(a)pyrene	15.19	252	154945	7.343	ng	97
91) Benzo(g,h,i)perylene	16.99	276	57213	3.228	ng	94

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

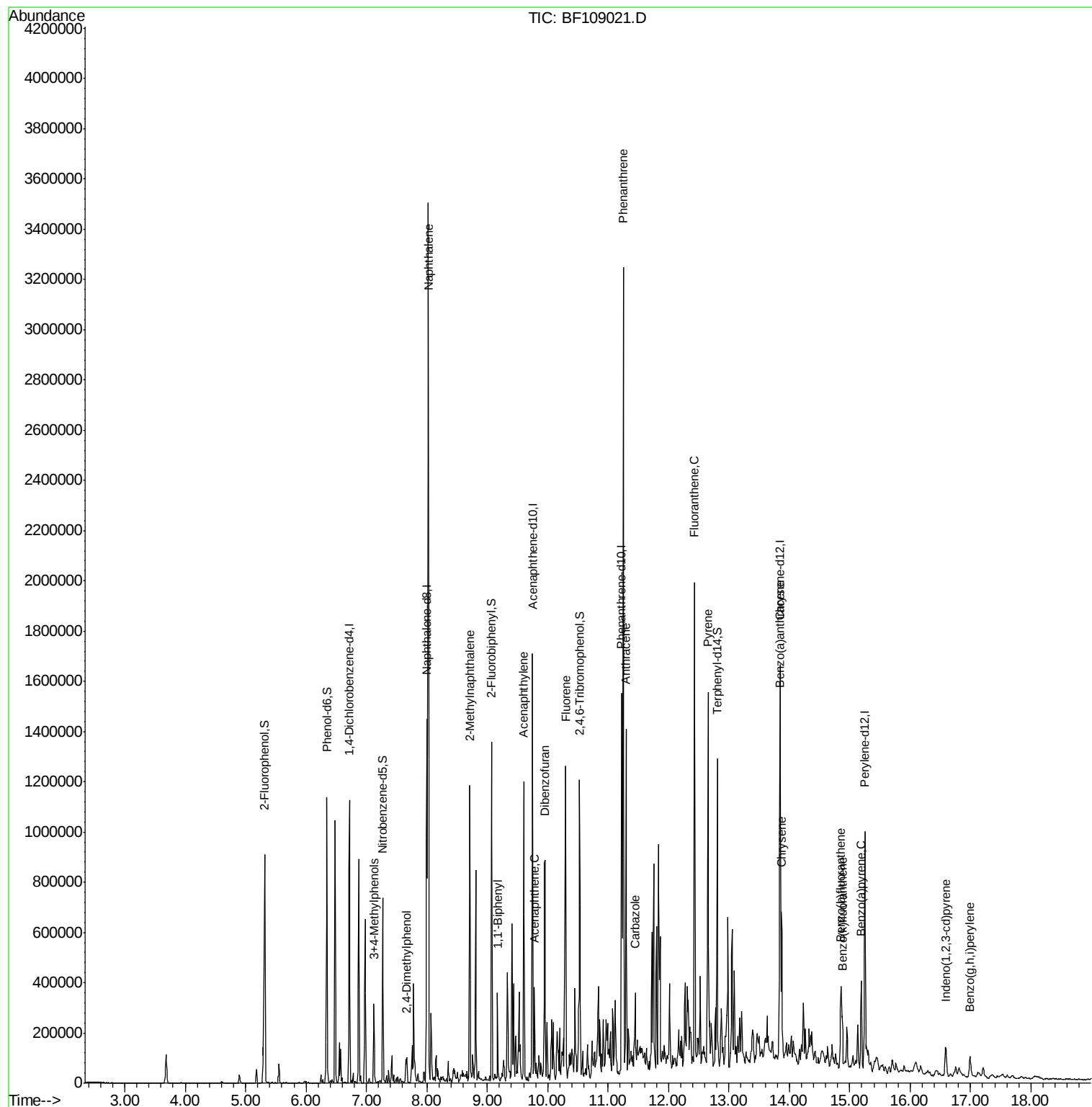
Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF091418\
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#1

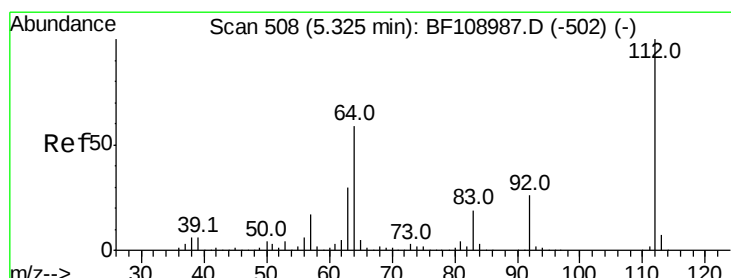
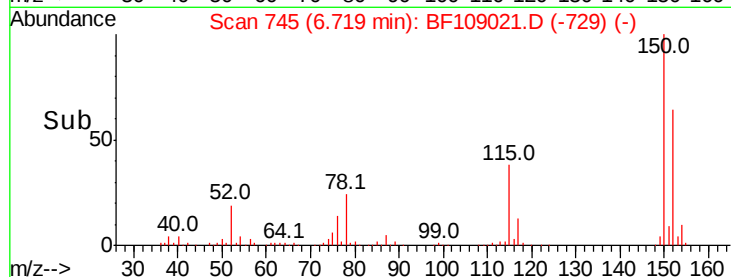
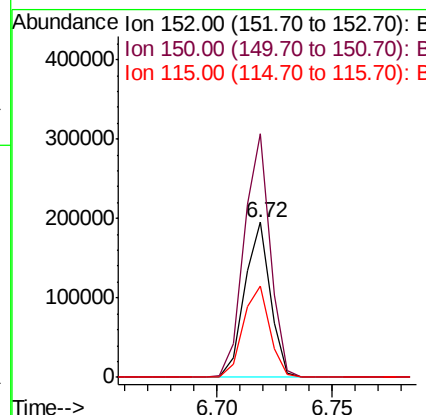
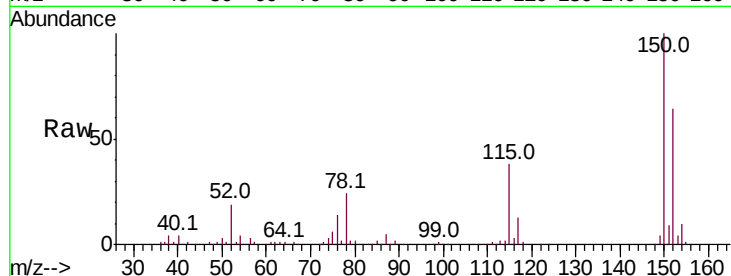
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.72 min Scan# 745
Delta R.T. -0.01 min
Lab File: BF109021.D
Acq: 15 Sep 2018 3:40

Instrument :
BNA_F
ClientSampleId :
ROLLOFF02-COMP-FILLDL

Tot Ion	Ratio	Lower	Upper
152	100		
150	156.9	124.6	186.8
115	59.3	50.1	75.1

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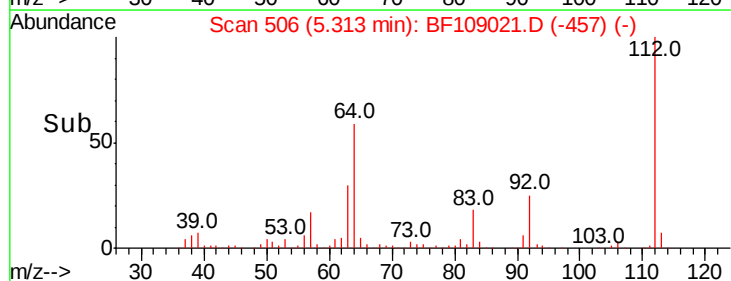
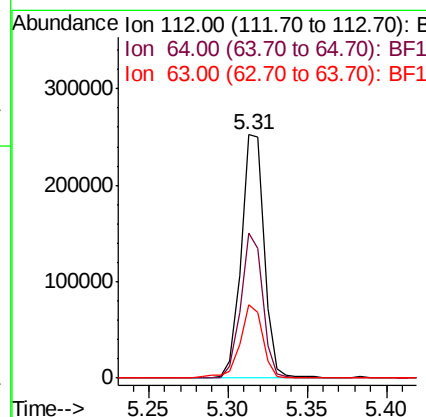
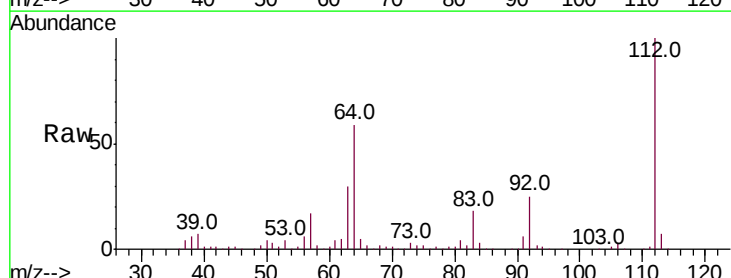
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#5

2-Fluorophenol
Concen: 27.687 ng
RT: 5.31 min Scan# 506
Delta R.T. -0.01 min
Lab File: BF109021.D
Acq: 15 Sep 2018 3:40

Tgt Ion	Ratio	Lower	Upper
112	100		
64	59.4	47.9	71.9
63	30.4	23.7	35.5





#7

Phenol-d6

Concen: 28.158 ng

RT: 6.34 min Scan# 681

Delta R.T. -0.02 min

Lab File: BF109021.D

Acq: 15 Sep 2018 3:40

Instrument :

BNA_F

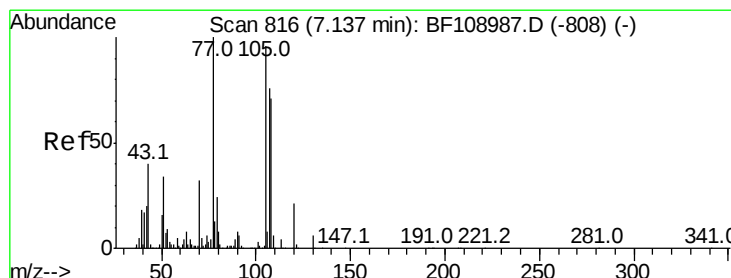
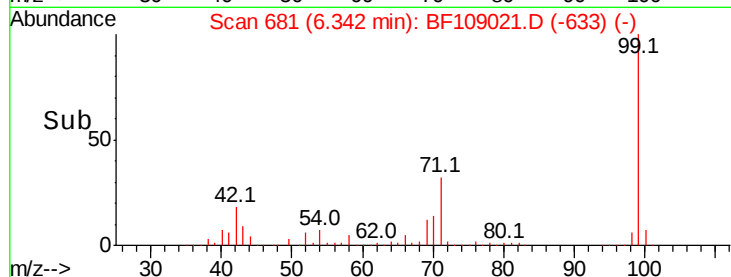
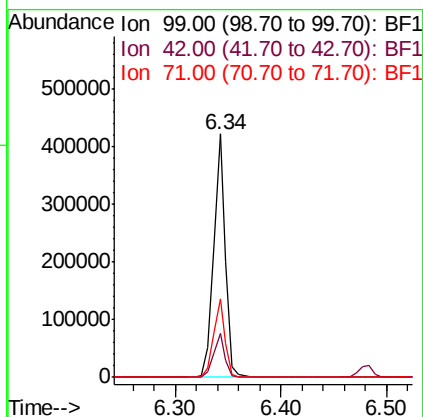
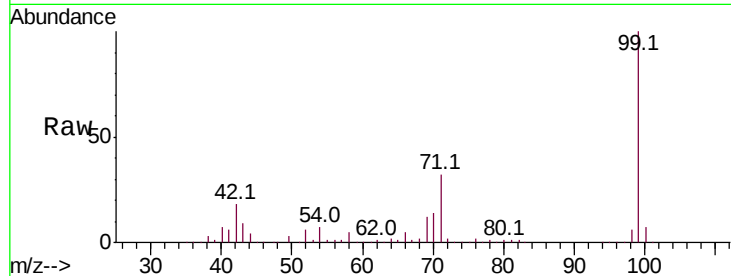
ClientSampleId :

ROLLOFF02-COMP-FILLDL

Tot Ion	Ion	Ratio	Resp	Lower	Upper
99	100		332985		
42	17.9	14.5	21.7		
71	32.4	25.4	38.0		

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#20

3+4-Methylphenols

Concen: 6.155 ng

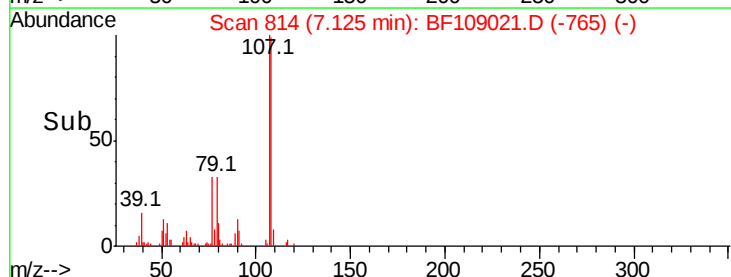
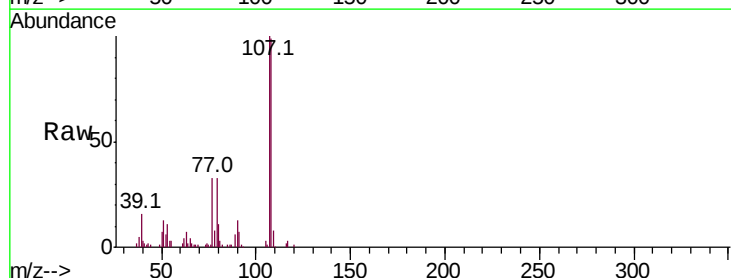
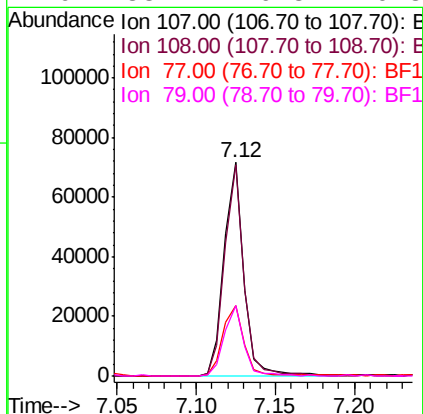
RT: 7.12 min Scan# 814

Delta R.T. -0.01 min

Lab File: BF109021.D

Acq: 15 Sep 2018 3:40

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
107	100		62072		
108	99.1	68.2	108.2		
77	33.2	26.7	66.7		
79	33.2	6.3	46.3		





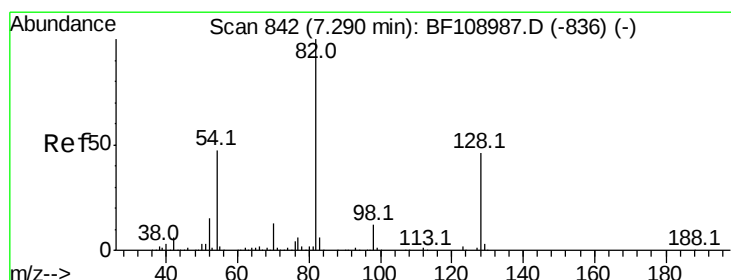
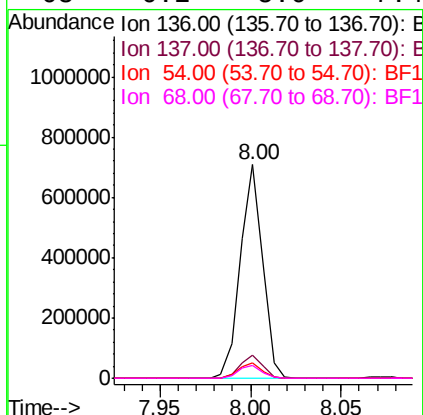
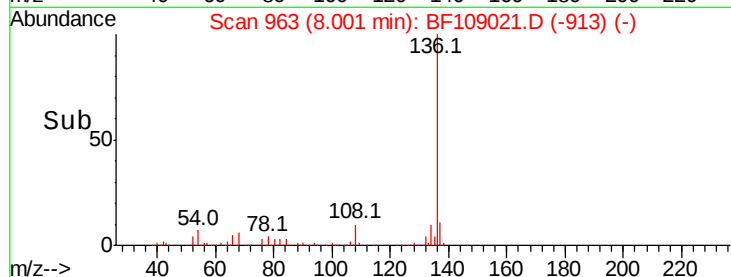
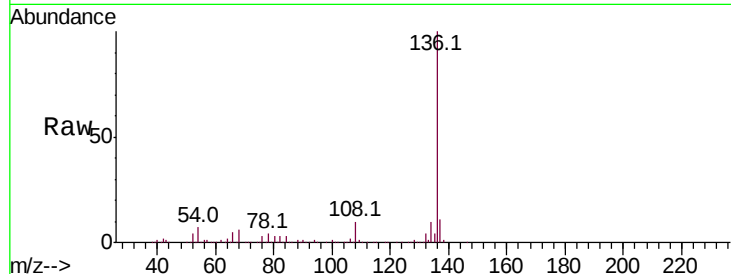
#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.00 min Scan# 963
Delta R.T. -0.01 min
Lab File: BF109021.D
Acq: 15 Sep 2018 3:40

Instrument :
BNA_F
ClientSampleId :
ROLLOFF02-COMP-FILLDL

Tot Ion	Ion	Ratio	Resp	Lower	Upper
136	100				
137	10.8		8.9	13.3	
54	7.2		6.6	9.8	
68	6.2		5.0	7.4	

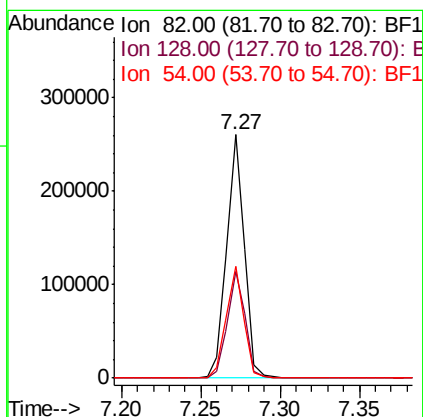
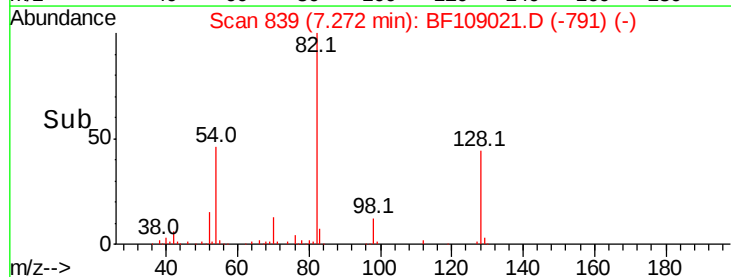
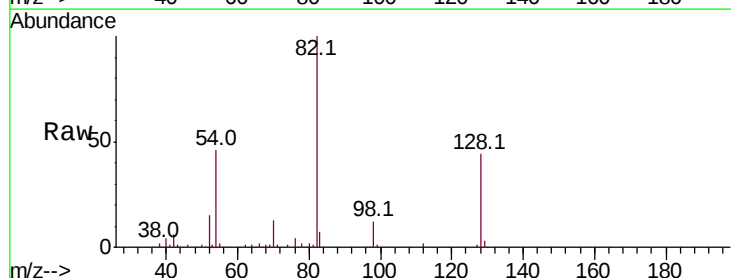
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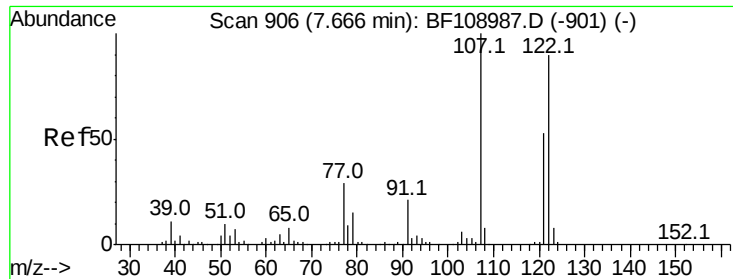
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#23
Nitrobenzene-d5
Concen: 18.684 ng
RT: 7.27 min Scan# 839
Delta R.T. -0.02 min
Lab File: BF109021.D
Acq: 15 Sep 2018 3:40

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
82	100				
128	43.9		36.1	54.1	
54	46.1		41.4	62.2	





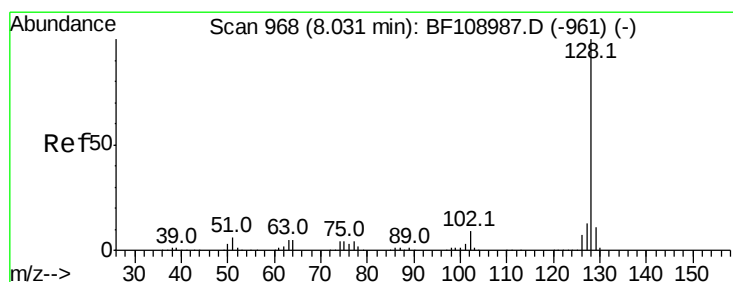
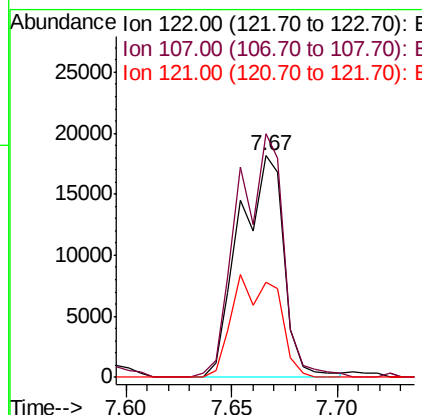
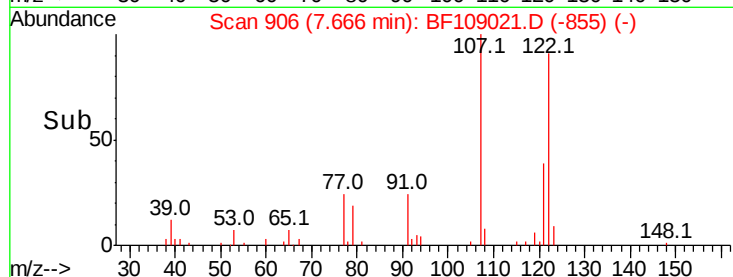
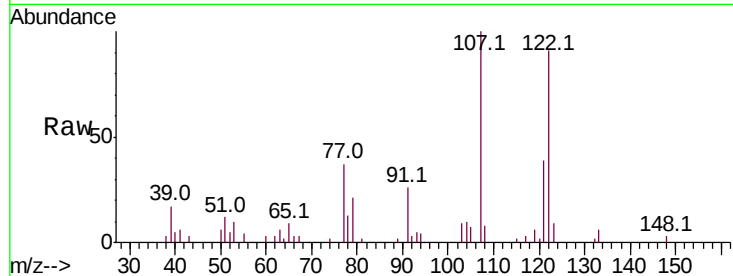
#27
2,4-Dimethylphenol
Concen: 3.277 ng
RT: 7.67 min Scan# 906
Delta R.T. -0.00 min
Lab File: BF109021.D
Acq: 15 Sep 2018 3:40

Instrument :
BNA_F
ClientSampleId :
ROLLOFF02-COMP-FILLDL

Tot Ion	Ratio	Lower	Upper
122	100		
107	109.9	91.2	136.8
121	42.8	47.2	70.8

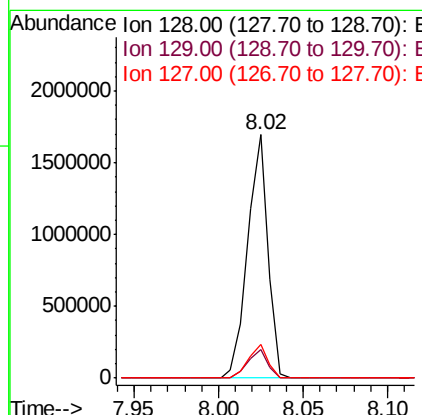
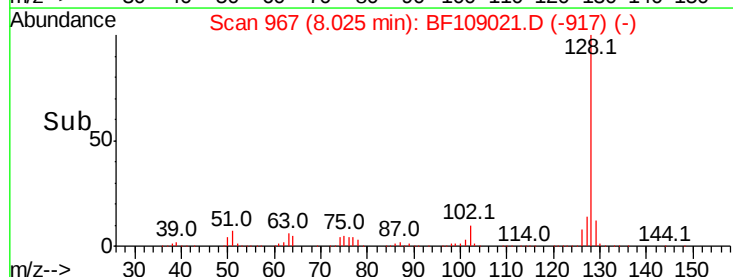
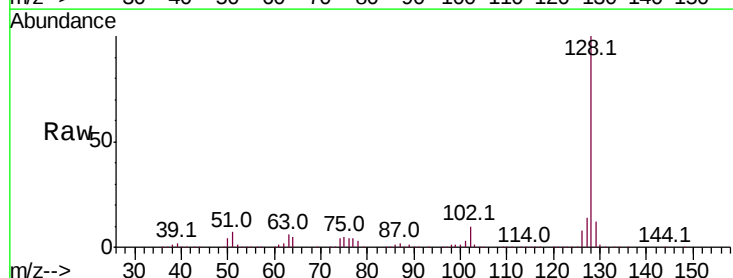
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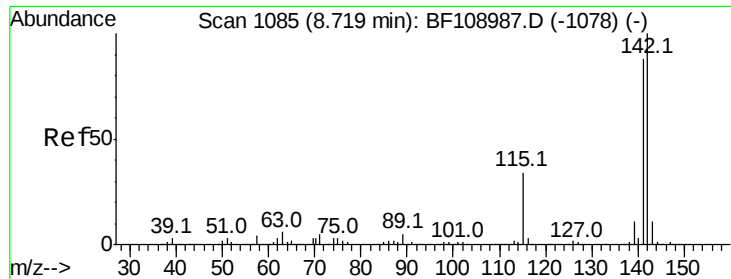
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#31
Naphthalene
Concen: 51.011 ng
RT: 8.02 min Scan# 967
Delta R.T. -0.01 min
Lab File: BF109021.D
Acq: 15 Sep 2018 3:40

Tgt Ion	Ratio	Lower	Upper
128	100		
129	11.6	8.8	13.2
127	13.8	10.9	16.3





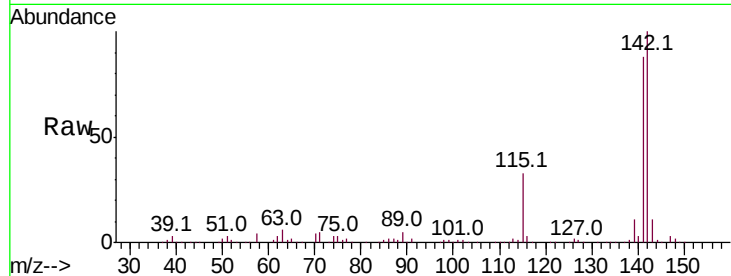
#37
2-Methylnaphthalene
Concen: 14.854 ng
RT: 8.71 min Scan# 1084
Delta R.T. -0.01 min
Lab File: BF109021.D
Acq: 15 Sep 2018 3:40

Instrument :
BNA_F
ClientSampleId :
ROLLOFF02-COMP-FILLDL

Tot Ion	Ratio	Resp	Lower	Upper
142	100	271513		
141	87.9	70.8	106.2	
115	33.3	26.1	39.1	

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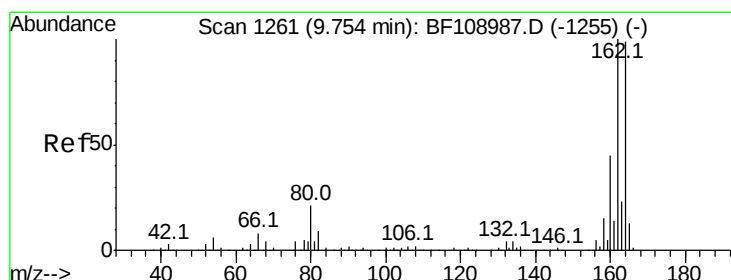
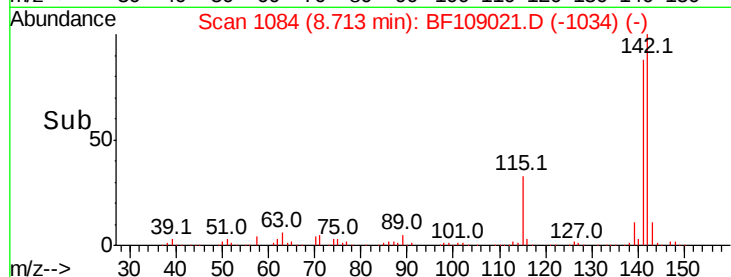
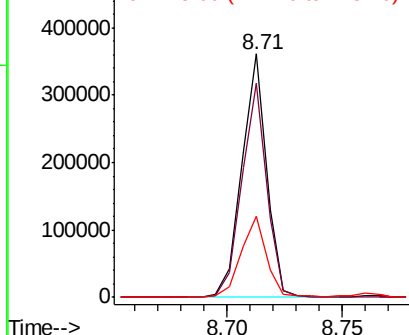


Abundance

Ion 142.00 (141.70 to 142.70): E

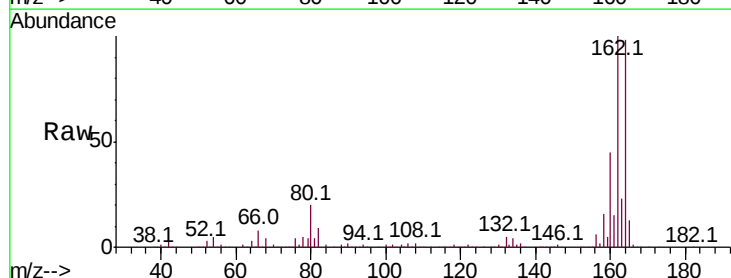
Ion 141.00 (140.70 to 141.70): E

Ion 115.00 (114.70 to 115.70): E



#38
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.75 min Scan# 1260
Delta R.T. -0.01 min
Lab File: BF109021.D
Acq: 15 Sep 2018 3:40

Tgt Ion	Ratio	Resp	Lower	Upper
164	100	297283		
162	101.8	86.1	129.1	
160	46.0	38.3	57.5	

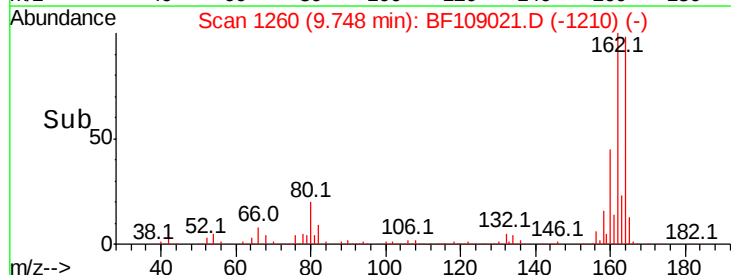
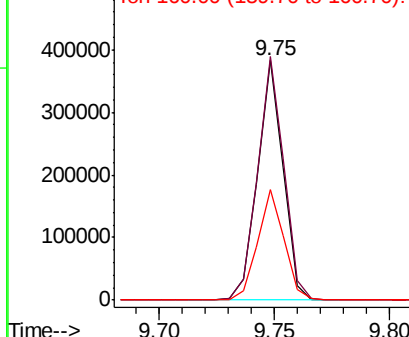


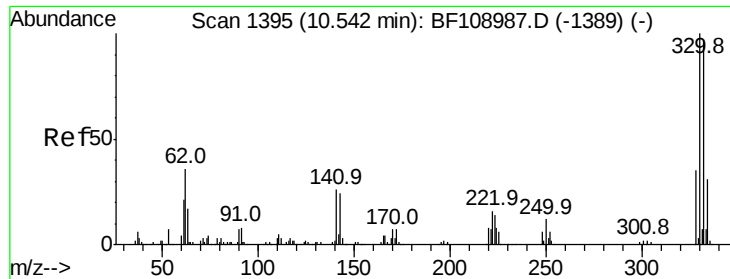
Abundance

Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E





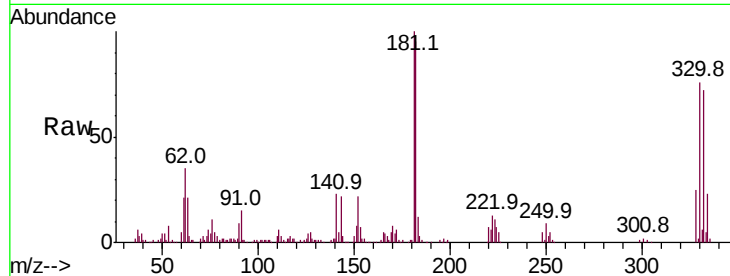
#41
 2,4,6-Tribromophenol
 Concen: 27.073 ng
 RT: 10.53 min Scan# 1393
 Delta R.T. -0.01 min
 Lab File: BF109021.D
 Acq: 15 Sep 2018 3:40

Instrument :
 BNA_F
 ClientSampleId :
 ROLLOFF02-COMP-FILLDL

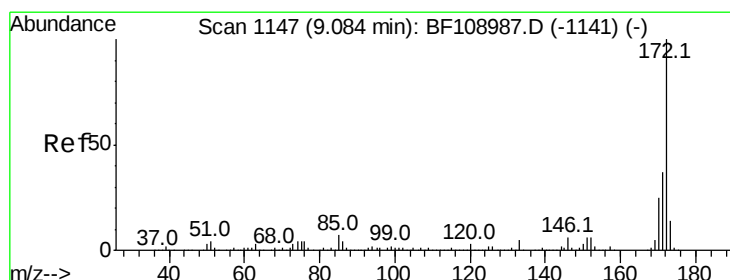
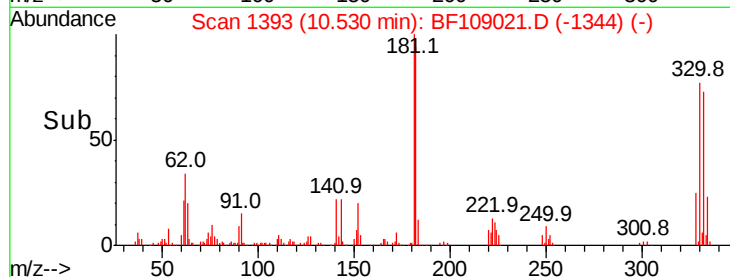
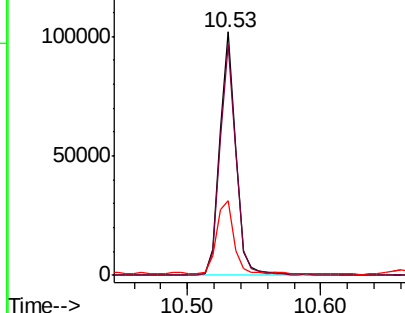
Tot Ion	Ratio	Resp	Lower	Upper
330	100			
332	94.5	77.0	115.6	
141	32.6	29.9	44.9	

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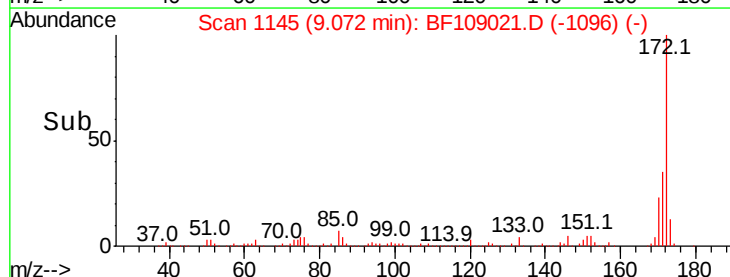
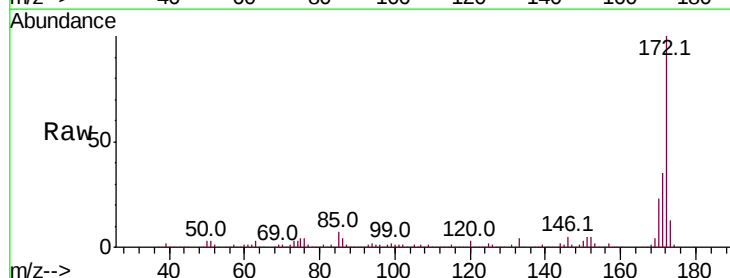
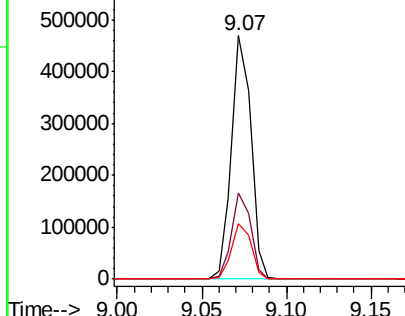
Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

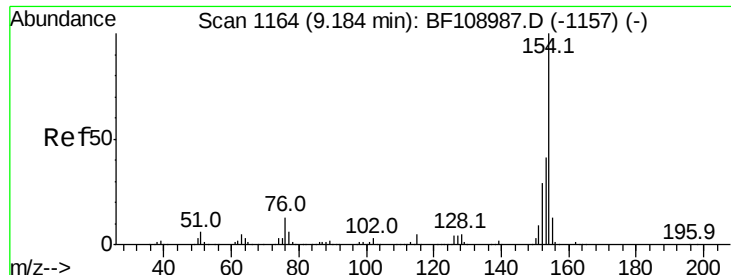


#44
 2-Fluorobiphenyl
 Concen: 19.880 ng
 RT: 9.07 min Scan# 1145
 Delta R.T. -0.01 min
 Lab File: BF109021.D
 Acq: 15 Sep 2018 3:40

Tgt Ion	Ratio	Resp	Lower	Upper
172	100			
171	35.2	29.7	44.5	
170	22.9	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: 3.540 ng

RT: 9.17 min Scan# 1162

Delta R.T. -0.01 min

Lab File: BF109021.D

Acq: 15 Sep 2018 3:40

Instrument :

BNA_F

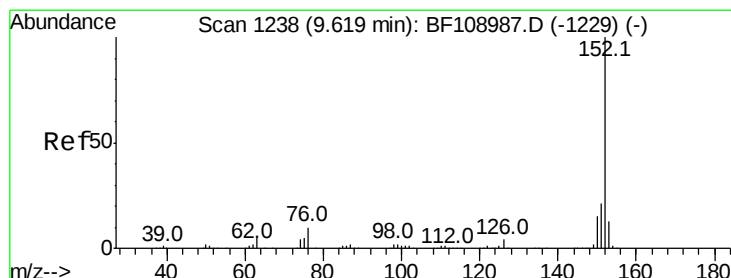
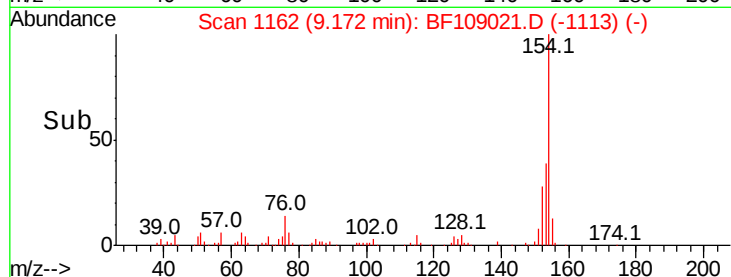
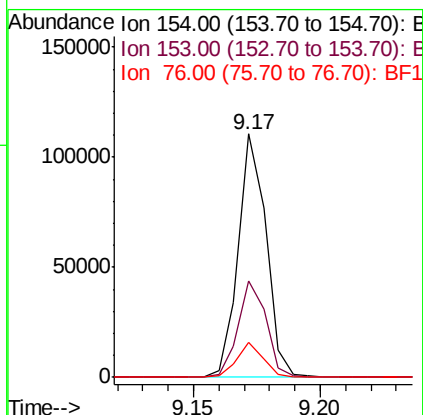
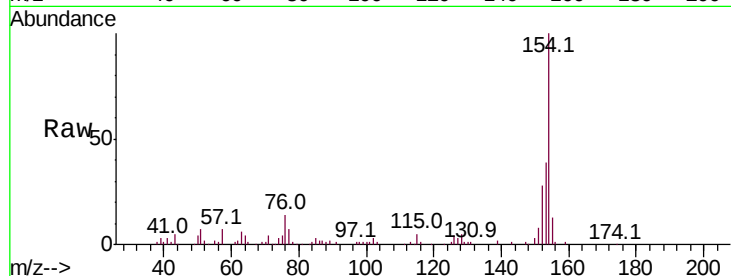
ClientSampleId :

ROLLOFF02-COMP-FILLDL

Tot Ion:	154	Resp:	84197
Ion Ratio	Lower	Upper	
154	100		
153	39.4	21.3	61.3
76	14.2	0.0	34.0

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#48

Acenaphthylene

Concen: 12.952 ng

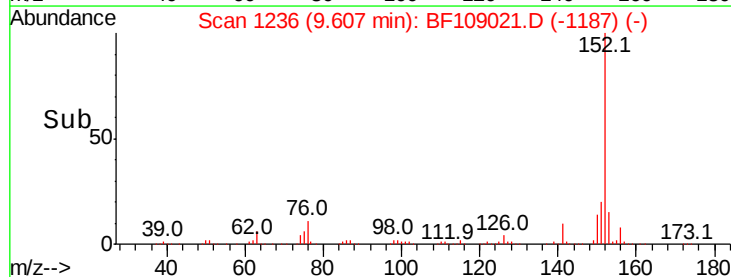
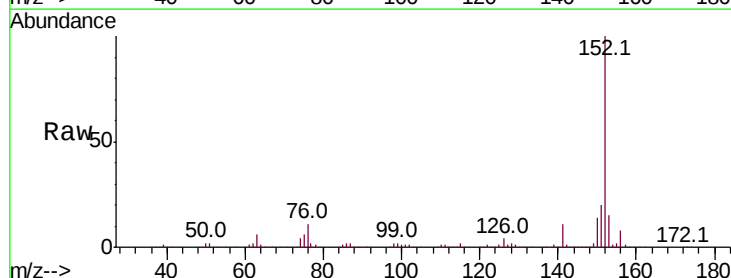
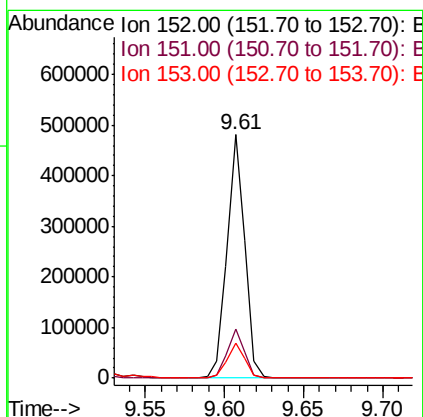
RT: 9.61 min Scan# 1236

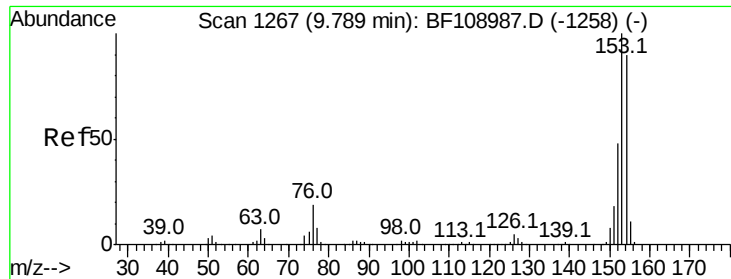
Delta R.T. -0.01 min

Lab File: BF109021.D

Acq: 15 Sep 2018 3:40

Tgt Ion:	152	Resp:	371949
Ion Ratio	Lower	Upper	
152	100		
151	20.1	16.3	24.5
153	14.6	10.7	16.1





#51

Acenaphthene

Concen: 3.926 ng

RT: 9.78 min Scan# 1265

Delta R.T. -0.01 min

Lab File: BF109021.D

Acq: 15 Sep 2018 3:40

Instrument :

BNA_F

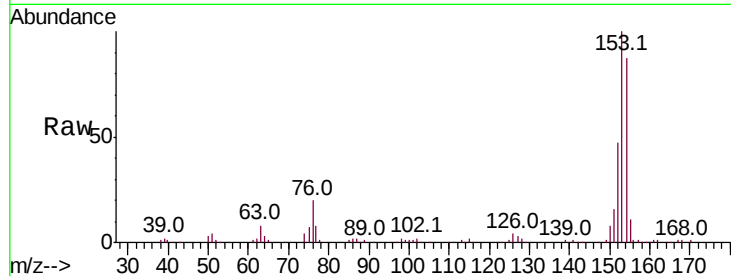
ClientSampleId :

ROLLOFF02-COMP-FILLDL

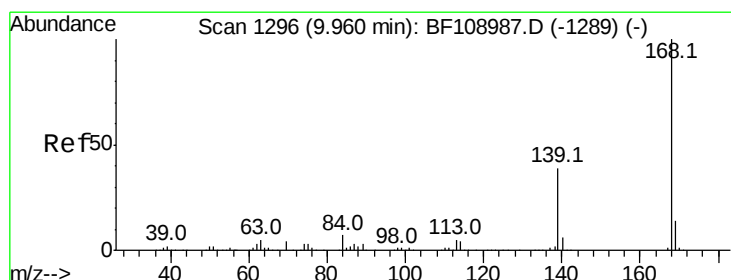
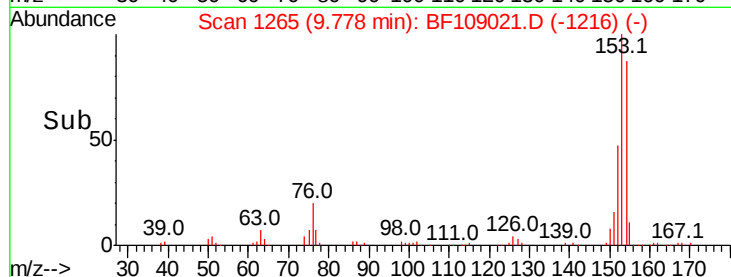
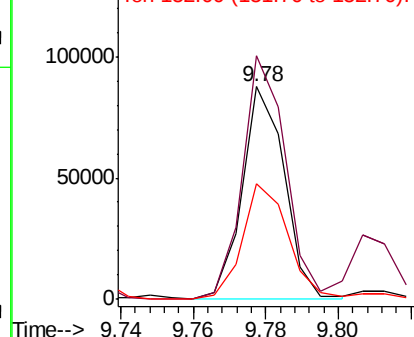
Tot Ion:	154	Resp:	70203
Ion Ratio	Lower	Upper	
154	100		
153	114.7	91.2	136.8
152	54.4	43.8	65.8

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Abundance Ion 154.00 (153.70 to 154.70): E
Ion 153.00 (152.70 to 153.70): E
Ion 152.00 (151.70 to 152.70): E



#54

Dibenzofuran

Concen: 10.806 ng

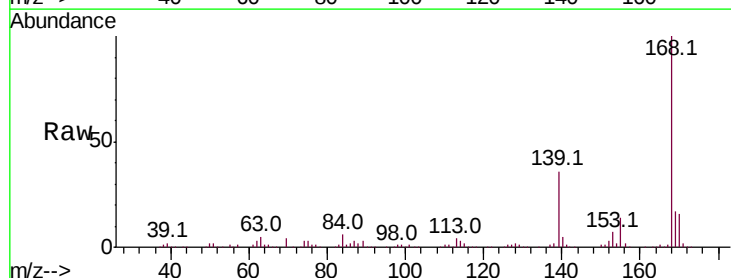
RT: 9.95 min Scan# 1295

Delta R.T. -0.01 min

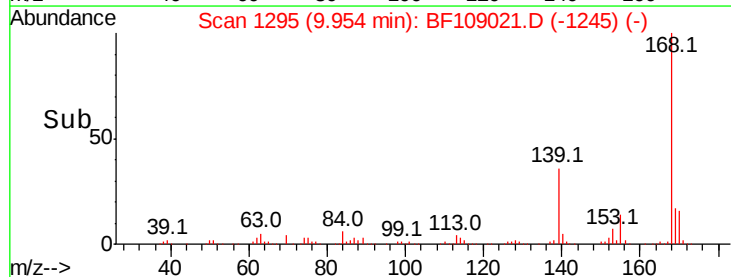
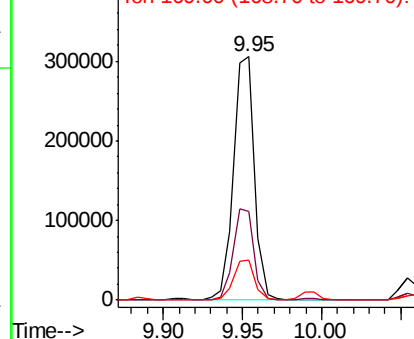
Lab File: BF109021.D

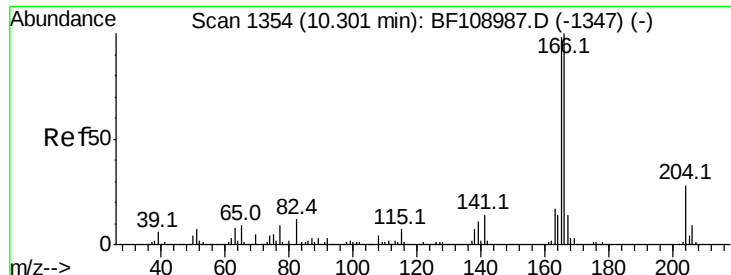
Acq: 15 Sep 2018 3:40

Tgt Ion:	168	Resp:	279248
Ion Ratio	Lower	Upper	
168	100		
139	36.3	30.1	45.1
169	16.6	10.9	16.3#



Abundance Ion 168.00 (167.70 to 168.70): E
Ion 139.00 (138.70 to 139.70): E
Ion 169.00 (168.70 to 169.70): E





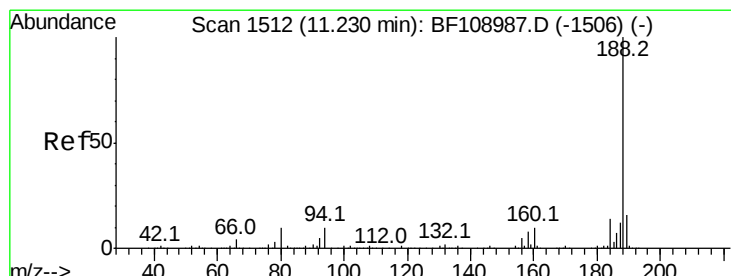
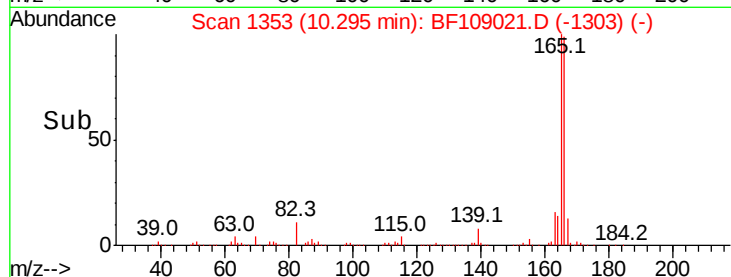
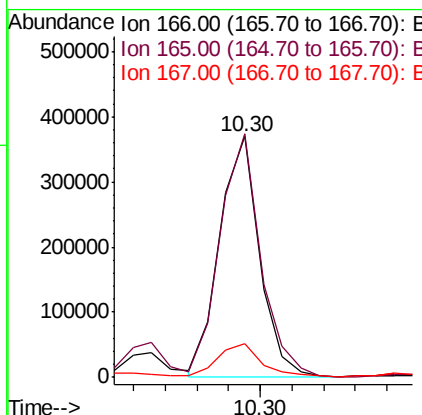
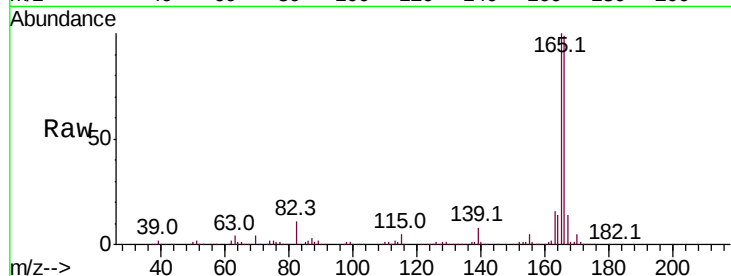
#57
Fluorene
 Concen: 18.624 ng
 RT: 10.30 min Scan# 1353
 Delta R.T. -0.01 min
 Lab File: BF109021.D
 Acq: 15 Sep 2018 3:40

Instrument :
 BNA_F
 ClientSampleId :
 ROLLOFF02-COMP-FILLDL

Tot Ion	Ratio	Lower	Upper
166	100		
165	101.2	79.8	119.8
167	13.9	10.6	16.0

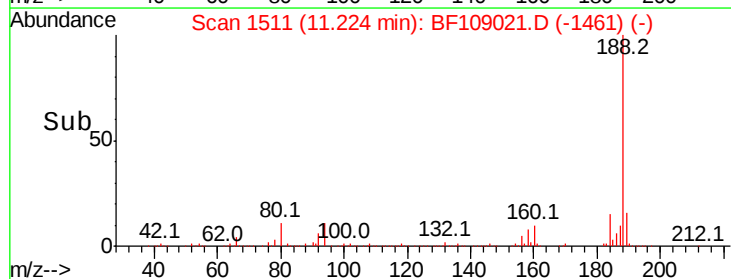
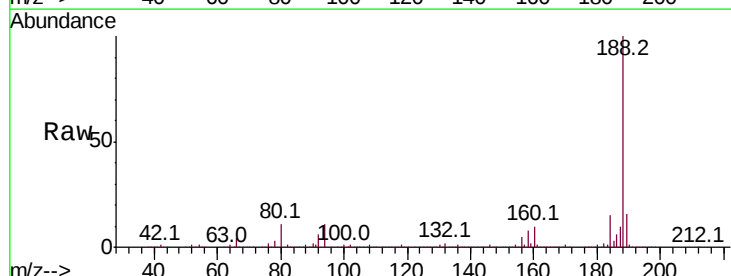
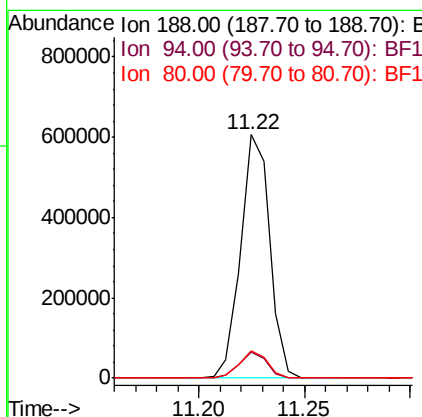
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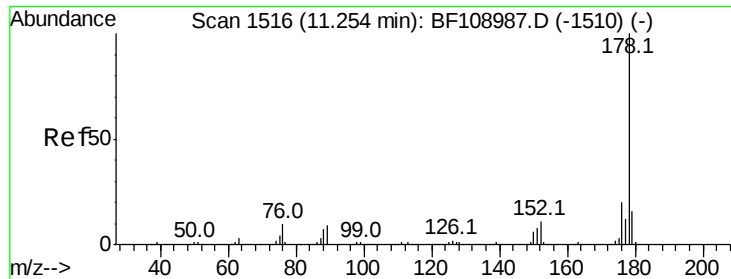
Sohil
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#63
Phenanthrene-d10
 Concen: 20.000 ng
 RT: 11.22 min Scan# 1511
 Delta R.T. -0.01 min
 Lab File: BF109021.D
 Acq: 15 Sep 2018 3:40

Tgt Ion	Ratio	Lower	Upper
188	100		
94	10.9	8.5	12.7
80	11.2	9.2	13.8





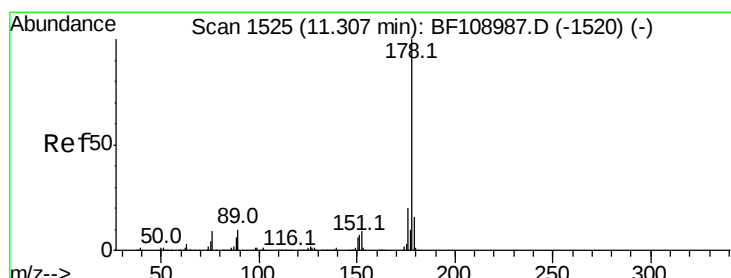
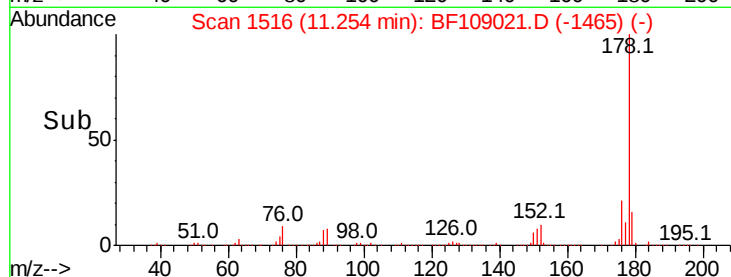
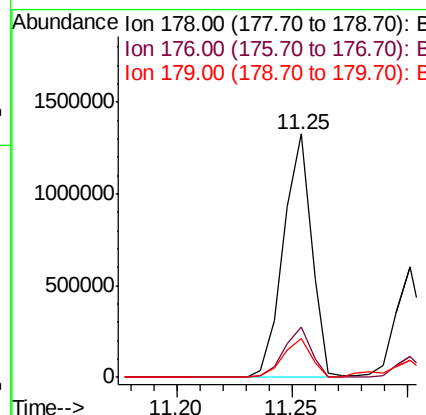
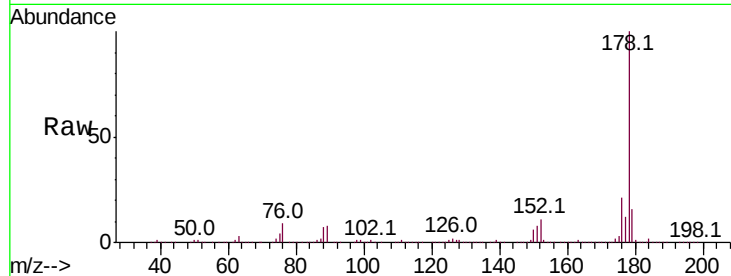
#70
Phenanthrene
Concen: 39.693 ng
RT: 11.25 min Scan# 1516
Delta R.T. -0.00 min
Lab File: BF109021.D
Acq: 15 Sep 2018 3:40

Instrument :
BNA_F
ClientSampleId :
ROLLOFF02-COMP-FILLDL

Tot Ion:178 Resp: 1121613
Ion Ratio Lower Upper
178 100
176 20.7 15.8 23.8
179 15.8 13.0 19.6

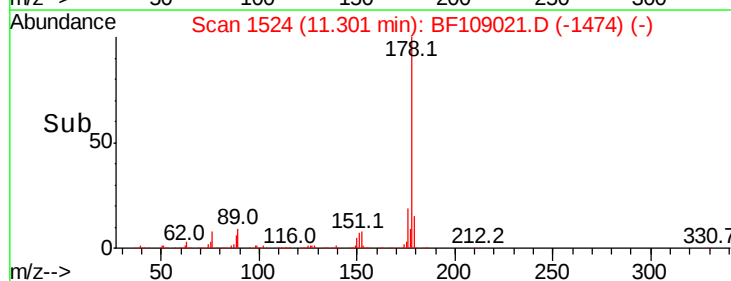
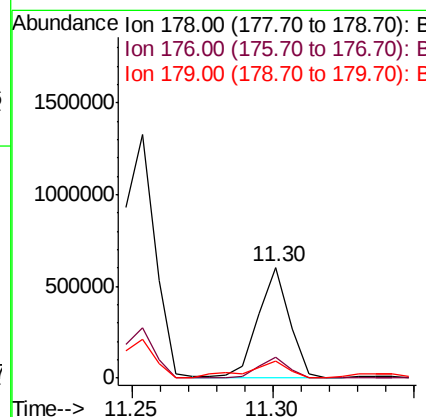
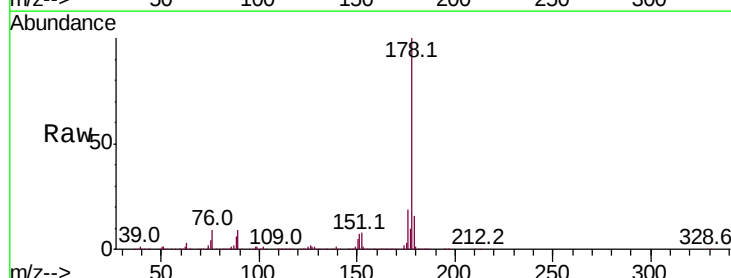
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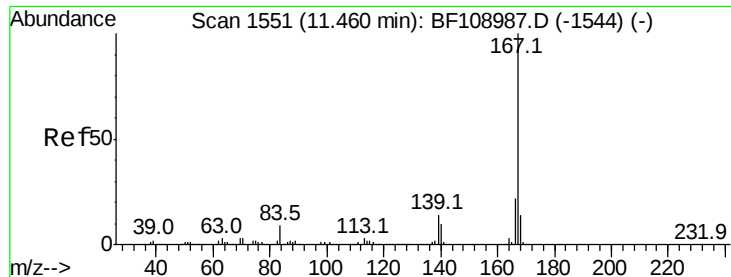
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#71
Anthracene
Concen: 16.074 ng
RT: 11.30 min Scan# 1524
Delta R.T. -0.01 min
Lab File: BF109021.D
Acq: 15 Sep 2018 3:40

Tgt Ion:178 Resp: 460437
Ion Ratio Lower Upper
178 100
176 18.8 15.4 23.2
179 15.8 12.6 19.0





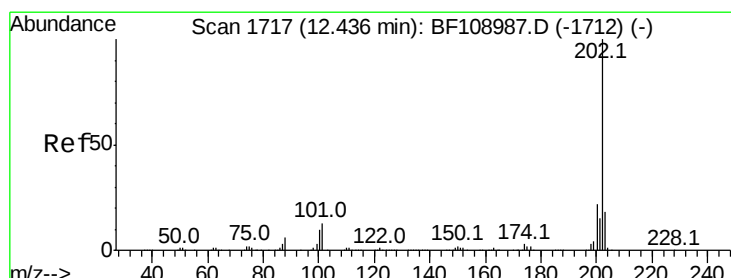
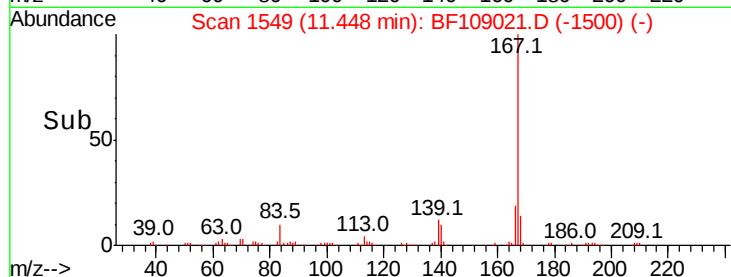
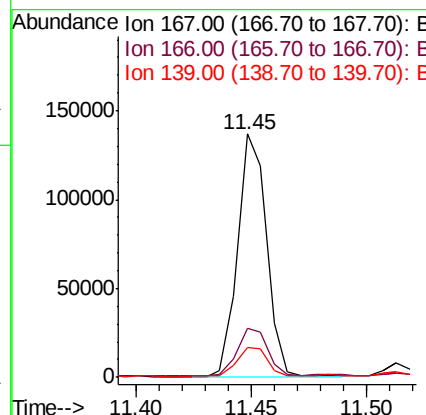
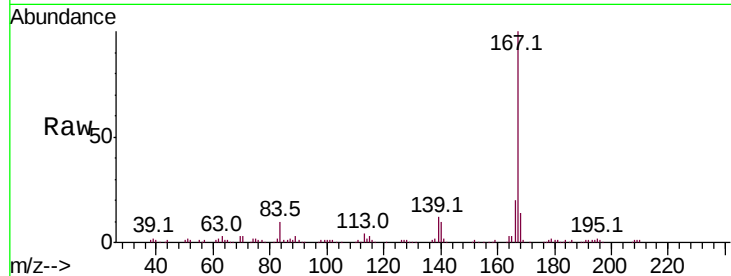
#72
 Carbazole
 Concen: 4.241 ng
 RT: 11.45 min Scan# 1549
 Delta R.T. -0.01 min
 Lab File: BF109021.D
 Acq: 15 Sep 2018 3:40

Instrument :
 BNA_F
 ClientSampleId :
 ROLLOFF02-COMP-FILLDL

Tot Ion:167	Resp: 120241
Ion Ratio Lower Upper	
167 100	
166 20.2	17.6 26.4
139 12.5	10.9 16.3

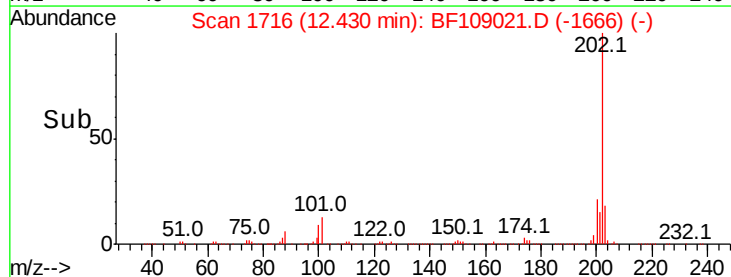
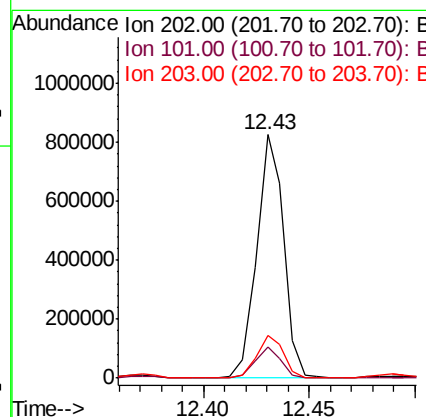
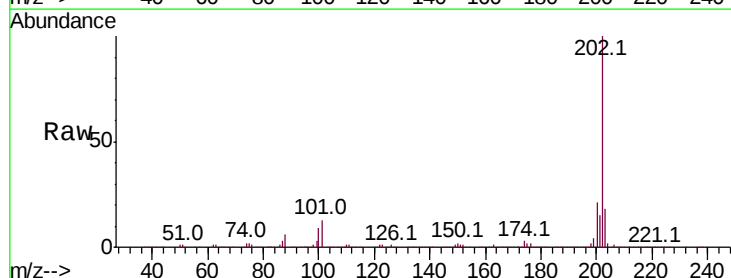
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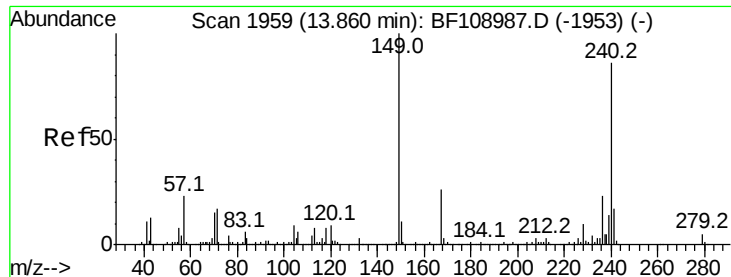
Sohil
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#74
 Fluoranthene
 Concen: 24.329 ng
 RT: 12.43 min Scan# 1716
 Delta R.T. -0.01 min
 Lab File: BF109021.D
 Acq: 15 Sep 2018 3:40

Tgt Ion:202	Resp: 725769
Ion Ratio Lower Upper	
202 100	
101 12.9	0.0 34.1
203 17.8	0.0 38.1





#75

Chrysene-d12

Concen: 20.000 ng

RT: 13.85 min Scan# 1957

Delta R.T. -0.01 min

Lab File: BF109021.D

Acq: 15 Sep 2018 3:40

Instrument :

BNA_F

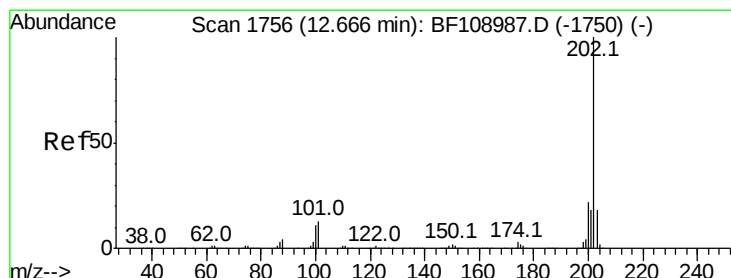
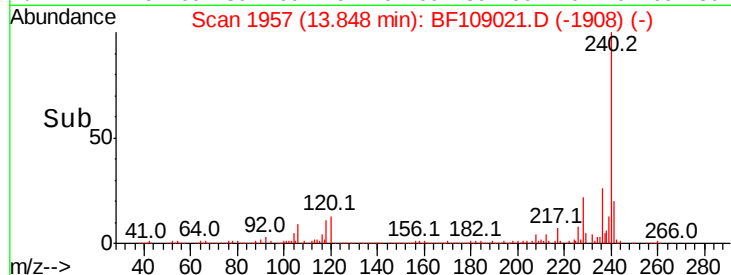
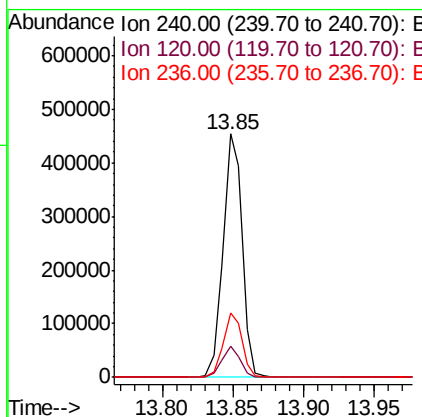
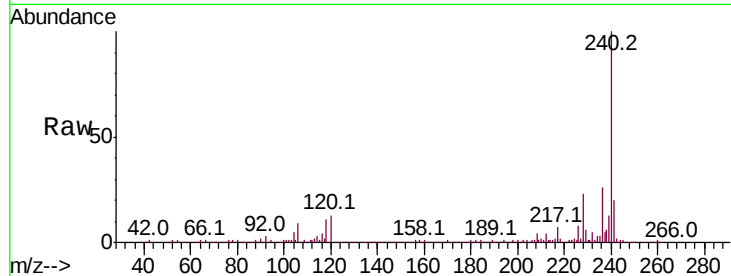
ClientSampleId :

ROLLOFF02-COMP-FILLDL

Tot Ion:	240	Resp:	425159
Ion Ratio	Lower	Upper	
240	100		
120	13.0	9.5	14.3
236	26.5	20.7	31.1

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#77

Pyrene

Concen: 19.297 ng

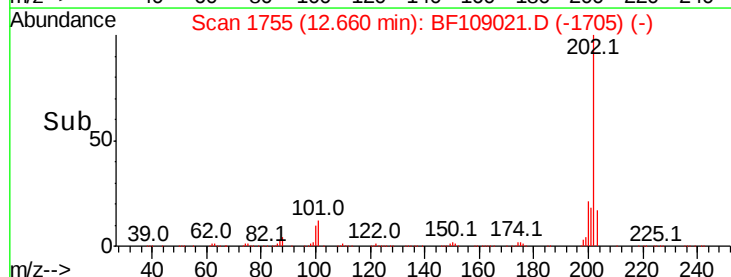
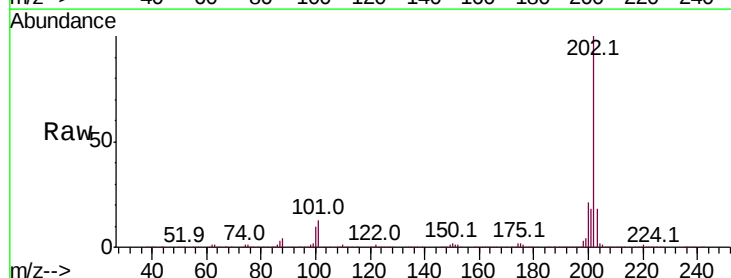
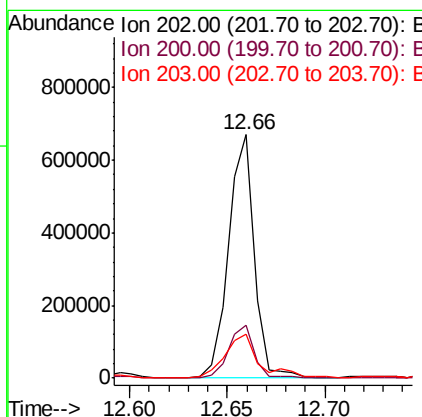
RT: 12.66 min Scan# 1755

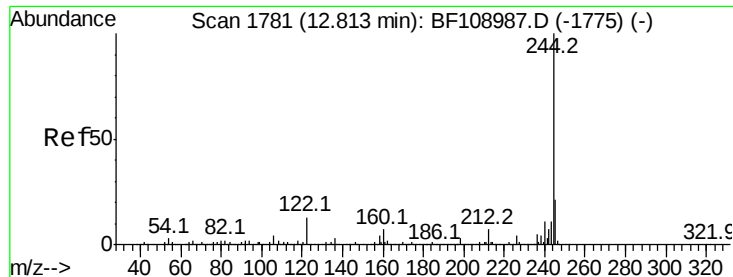
Delta R.T. -0.01 min

Lab File: BF109021.D

Acq: 15 Sep 2018 3:40

Tgt Ion:	202	Resp:	609417
Ion Ratio	Lower	Upper	
202	100		
200	21.5	17.4	26.2
203	18.3	14.3	21.5





#78

Terphenyl-d14

Concen: 22.029 ng

RT: 12.81 min Scan# 1780

Delta R.T. -0.01 min

Lab File: BF109021.D

Acq: 15 Sep 2018 3:40

Instrument :

BNA_F

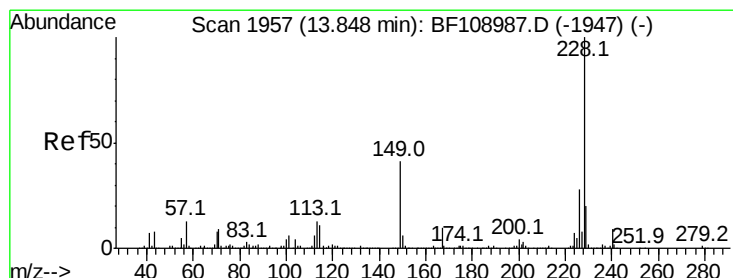
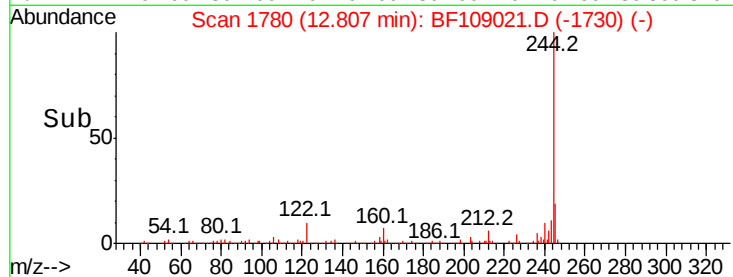
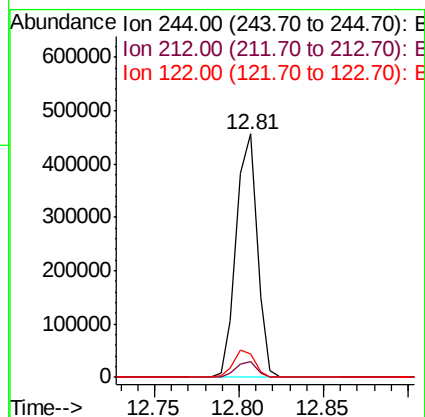
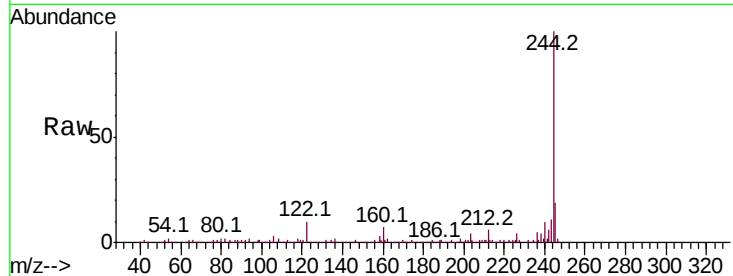
ClientSampleId :

ROLLOFF02-COMP-FILLDL

Tot Ion:	244	Resp:	395145
Ion Ratio	Lower	Upper	
244	100		
212	6.3	5.4	8.0
122	9.9	11.0	16.4#

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#80

Benzo(a)anthracene

Concen: 10.664 ng

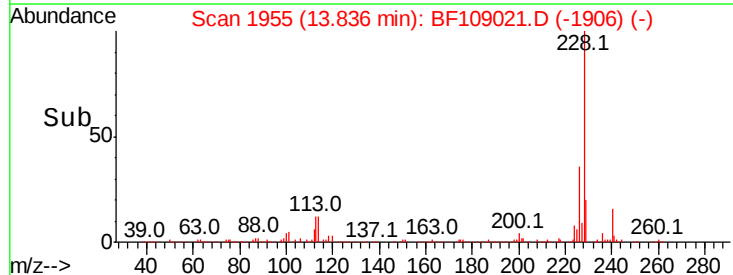
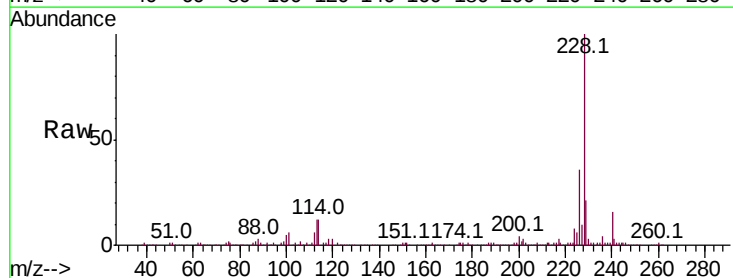
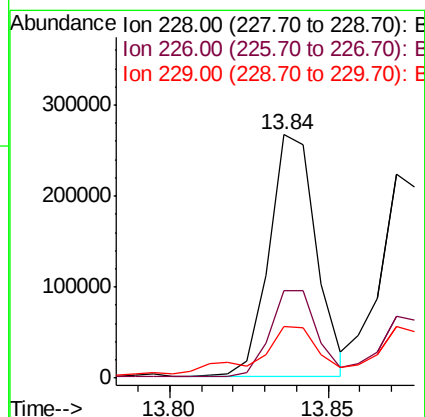
RT: 13.84 min Scan# 1955

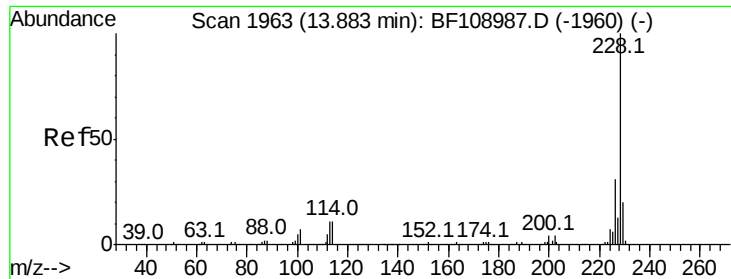
Delta R.T. -0.01 min

Lab File: BF109021.D

Acq: 15 Sep 2018 3:40

Tgt Ion:	228	Resp:	274484
Ion Ratio	Lower	Upper	
228	100		
226	36.1	22.6	33.8#
229	21.3	15.8	23.6





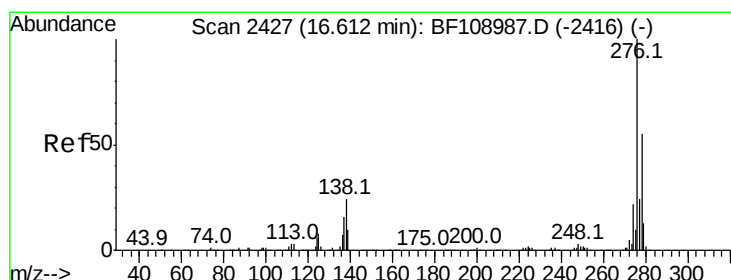
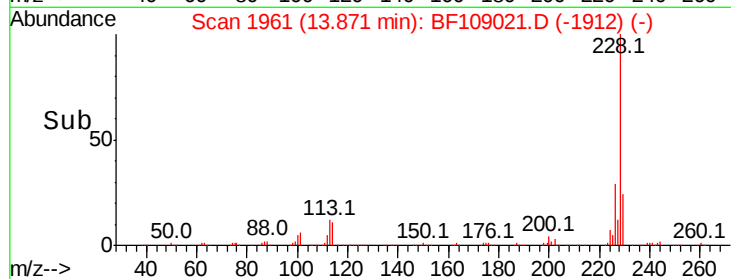
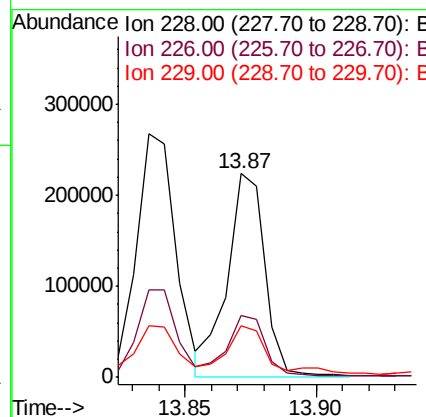
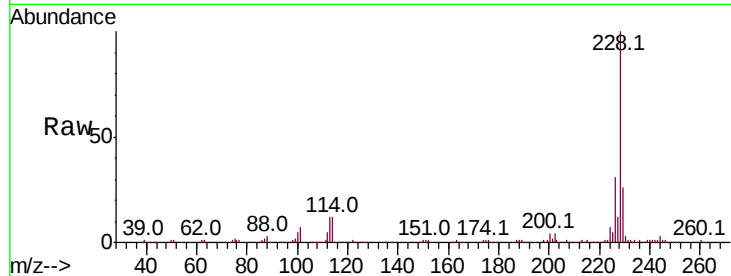
#82
Chrysene
Concen: 8.815 ng/ml
RT: 13.87 min Scan# 1961
Delta R.T. -0.01 min
Lab File: BF109021.D
Acq: 15 Sep 2018 3:40

Instrument :
BNA_F
ClientSampleId :
ROLLOFF02-COMP-FILLDL

Tot Ion	Ratio	Lower	Upper
228	100		
226	30.5	25.0	37.6
229	25.6	16.2	24.4

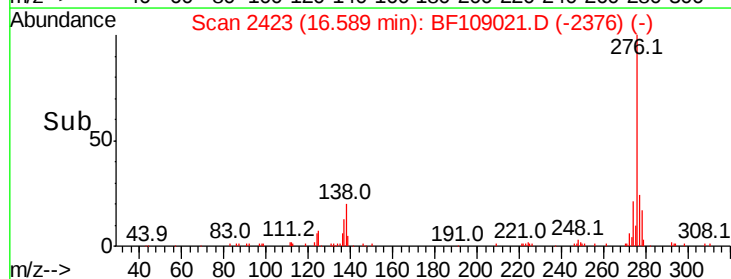
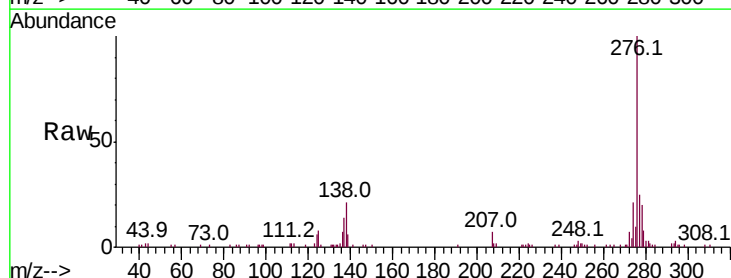
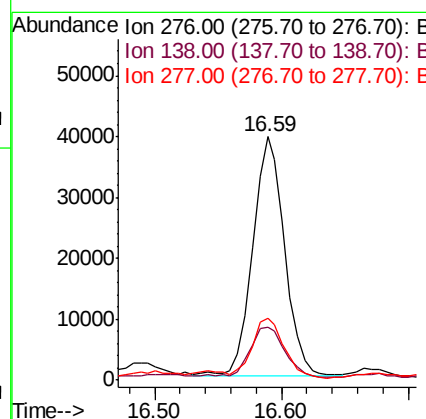
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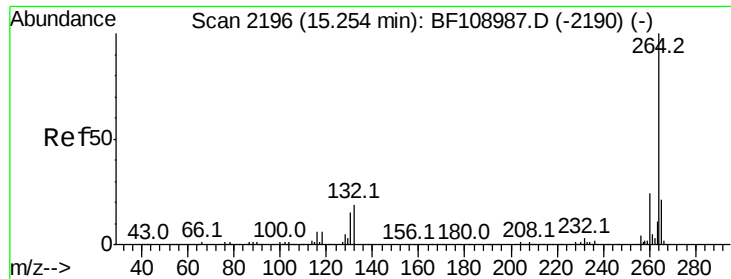
Sohil
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#85
Indeno(1,2,3-cd)pyrene
Concen: 3.352 ng
RT: 16.59 min Scan# 2423
Delta R.T. -0.02 min
Lab File: BF109021.D
Acq: 15 Sep 2018 3:40

Tgt Ion	Ratio	Lower	Upper
276	100		
138	22.8	25.0	37.6
277	25.1	20.1	30.1





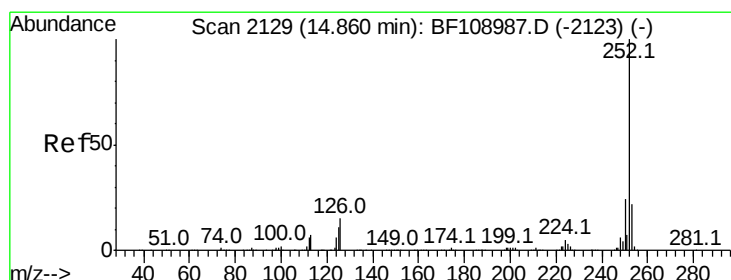
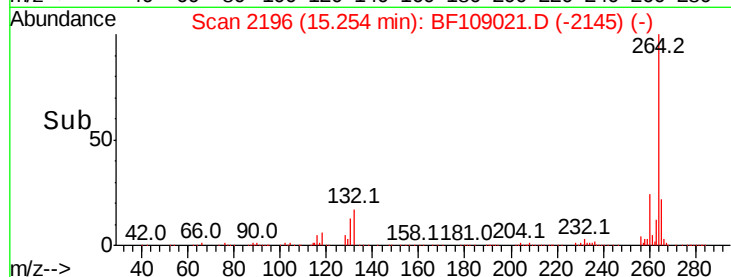
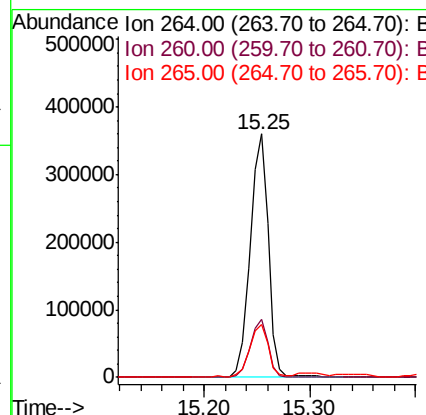
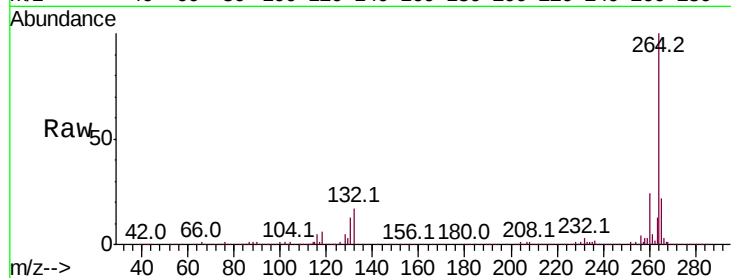
#86
Pervlene-d12
Concen: 20.000 ng
RT: 15.25 min Scan# 2196
Delta R.T. -0.00 min
Lab File: BF109021.D
Acq: 15 Sep 2018 3:40

Instrument :
BNA_F
ClientSampleId :
ROLLOFF02-COMP-FILLDL

Tot Ion	Ratio	Lower	Upper
264	100		
260	24.0	19.2	28.8
265	21.8	17.5	26.3

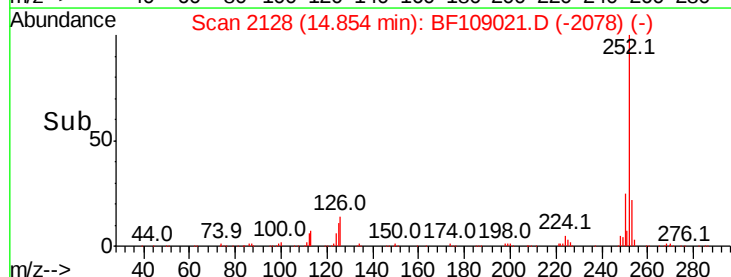
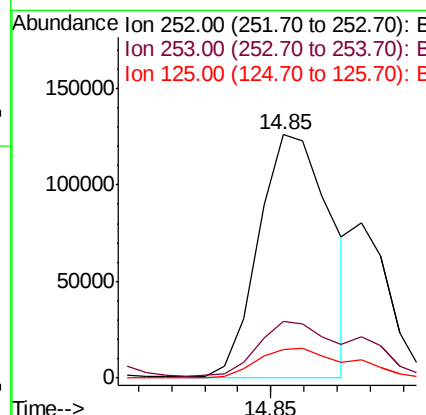
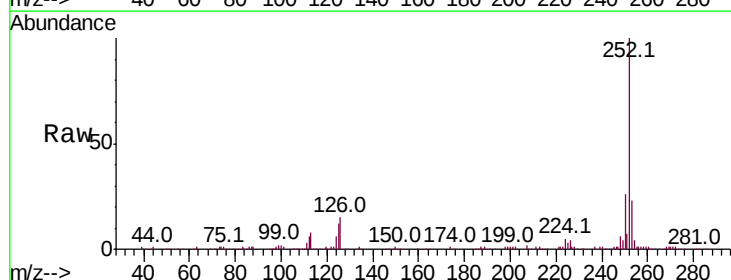
Manual Integrations
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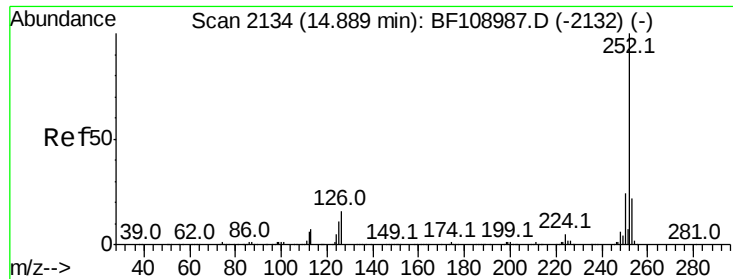
Sohil
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#87
Benzo(b)fluoranthene
Concen: 8.080 ng m
RT: 14.85 min Scan# 2128
Delta R.T. -0.01 min
Lab File: BF109021.D
Acq: 15 Sep 2018 3:40

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.2	17.0	25.6
125	11.7	9.0	13.6





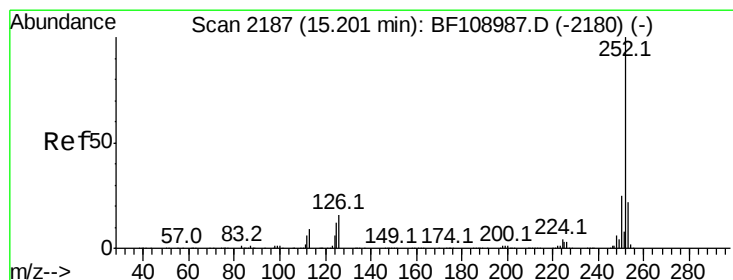
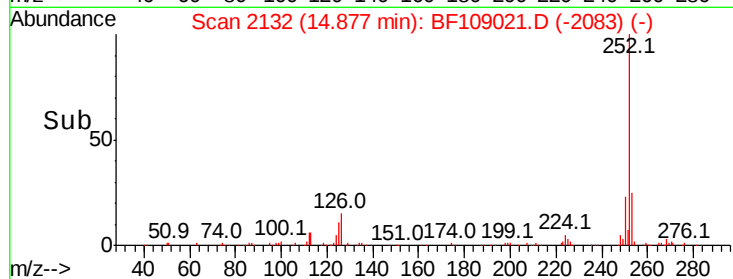
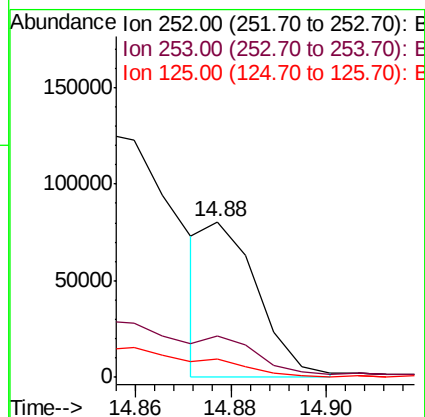
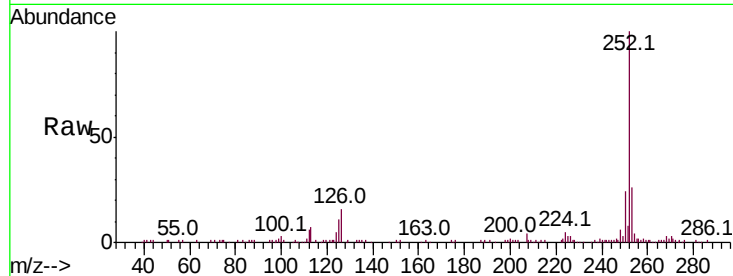
#88
Benzo(k)fluoranthene
Concen: 2.773 ng m
RT: 14.88 min Scan# 2132
Delta R.T. -0.01 min
Lab File: BF109021.D
Acq: 15 Sep 2018 3:40

Instrument :
BNA_F
ClientSampleId :
ROLLOFF02-COMP-FILLDL

Tot Ion	Ratio	Lower	Upper
252	100		
253	26.4	17.9	26.9
125	11.4	10.2	15.2

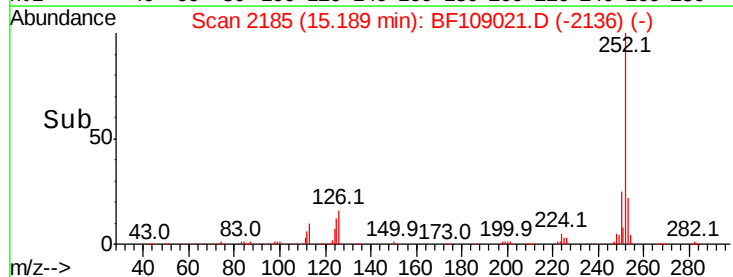
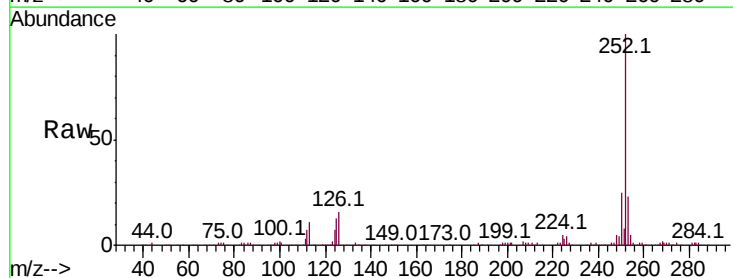
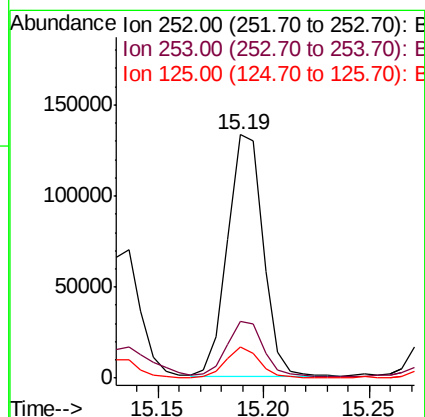
Manual Integrations
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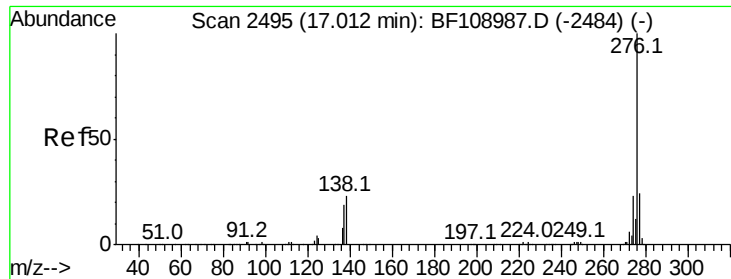
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#89
Benzo(a)pyrene
Concen: 7.343 ng
RT: 15.19 min Scan# 2185
Delta R.T. -0.01 min
Lab File: BF109021.D
Acq: 15 Sep 2018 3:40

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.2	17.1	25.7
125	12.5	9.8	14.6





#91
Benzo(a,h,i)perylene
Concen: 3.228 ng
RT: 16.99 min Scan# 2492
Delta R.T. -0.02 min
Lab File: BF109021.D
Acq: 15 Sep 2018 3:40

Instrument :
BNA_F
ClientSampleId :
ROLLOFF02-COMP-FILLDL

Tot Ion	Ratio	Lower	Upper
276	100		
277	23.8	17.9	26.9
138	23.0	21.8	32.8

Manual Integrations
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Sohil
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