

Data Path : Z:\HPCHEM1\BNA F\DATA\BF113017\
 Data File : BF101032.D
 Acq On : 30 Nov 2017 21:58
 Operator : SJ/JU
 Sample : I6289-09 5X
 Misc :
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SU-03-112917

Manual Integrations
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Quant Time: Dec 01 10:04:47 2017
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF113017.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Nov 30 16:01:41 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.85	152	53120	20.00	ng	0.00
21) Naphthalene-d8	8.13	136	196204	20.00	ng	0.00
38) Acenaphthene-d10	9.89	164	74740	20.00	ng	0.00
63) Phenanthrene-d10	11.39	188	111968	20.00	ng	0.00
75) Chrysene-d12	14.04	240	107451	20.00	ng	0.02
86) Perylene-d12	15.52	264	90214	20.00	ng	0.02
System Monitoring Compounds						
5) 2-Fluorophenol	5.46	112	73281	22.80	ng	0.00
7) Phenol-d6	6.48	99	102304	26.21	ng	0.00
23) Nitrobenzene-d5	7.41	82	61538	18.71	ng	-0.01
41) 2,4,6-Tribromophenol	10.68	330	20827	23.20	ng	0.00
44) 2-Fluorobiphenyl	9.21	172	136398	24.97	ng	0.00
78) Terphenyl-d14	12.96	244	110507	22.49	ng	0.00
Target Compounds						Qvalue
31) Naphthalene	8.16	128	305803	31.624	ng	100
37) 2-Methylnaphthalene	8.85	142	196200	29.860	ng	98
45) 1,1'-Biphenyl	9.31	154	50223	7.334	ng	98
48) Acenaphthylene	9.75	152	150487	18.830	ng	98
51) Acenaphthene	9.93	154	338163	70.664	ng	99
54) Dibenzofuran	10.10	168	478508	69.386	ng	98
57) Fluorene	10.45	166	597586	106.594	ng	99
70) Phenanthrene	11.43	178	2977996	482.968	ng	99
71) Anthracene	11.47	178	967515	155.037	ng	100
72) Carbazole	11.62	167	246397	43.214	ng	99
74) Fluoranthene	12.63	202	2885751	422.206	ng	98
77) Pyrene	12.86	202	2475916	333.931	ng	99
80) Benzo(a)anthracene	14.03	228	1300194	191.648	ng	98
82) Chrysene	14.07	228	968322	153.685	ng	97
85) Indeno(1,2,3-cd)pyrene	17.02	276	356329	63.612	ng	# 87
87) Benzo(b)fluoranthene	15.10	252	901508m	166.835	ng	
88) Benzo(k)fluoranthene	15.12	252	311953m	58.597	ng	
89) Benzo(a)pyrene	15.47	252	704883	143.487	ng	97
90) Dibenzo(a,h)anthracene	17.02	278	82077	18.952	ng	94
91) Benzo(a,h,i)perylene	17.47	276	328306	80.438	ng	# 91

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

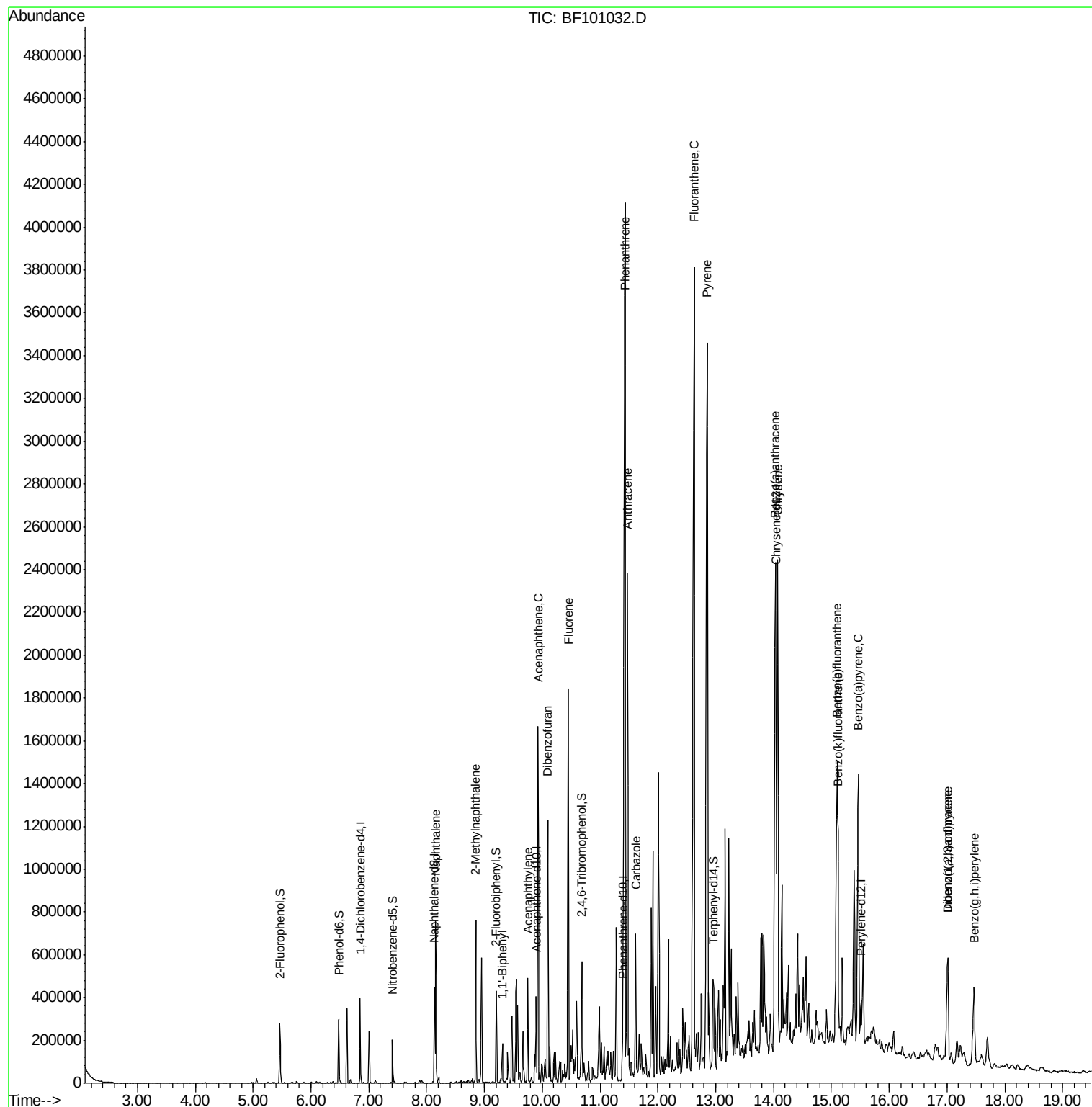
Data Path : Z:\HPCHEM1\BNA F\DATA\BF113017\
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Misc :
ALS Vial : 13 Sample Multiplier: 1

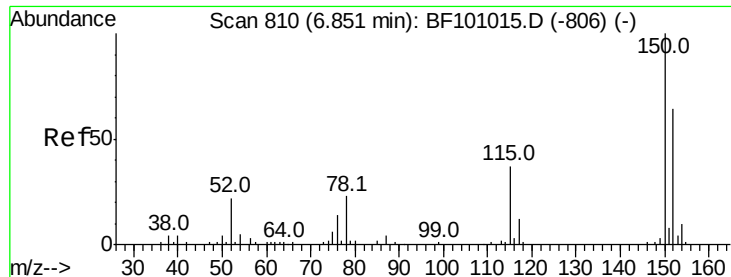
Instrument :
BNA_F
ClientSampleId :
SU-03-112917

Quant Time: Dec 01 10:04:47 2017
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#1

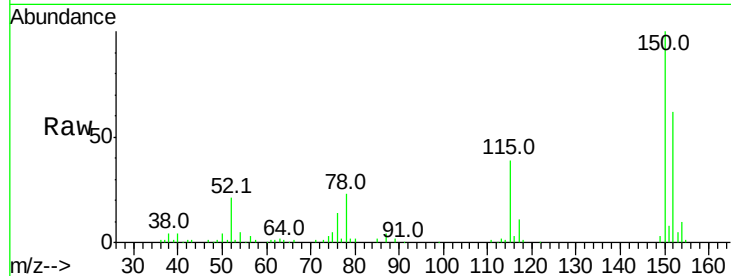
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.85 min Scan# 810
Delta R.T. 0.00 min
Lab File: BF101032.D
Acq: 30 Nov 2017 21:58

Instrument :
BNA_F
ClientSampleId :
SU-03-112917

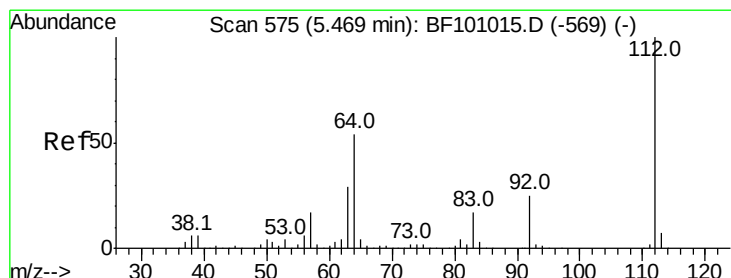
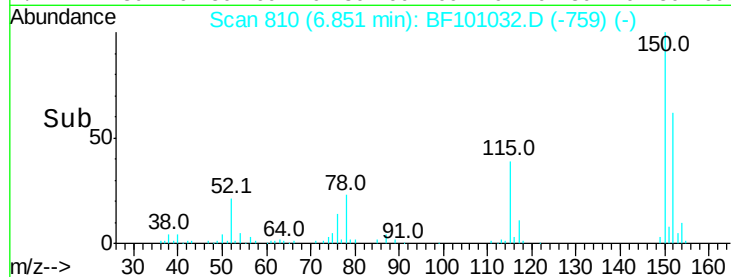
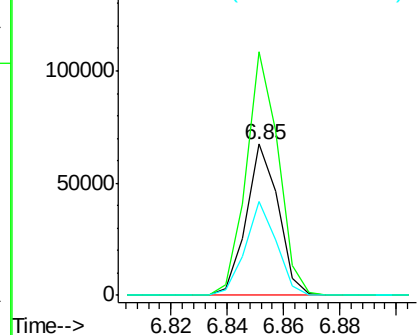
Tot Ion	Ratio	Lower	Upper
152	100		
150	160.8	124.6	186.8
115	62.2	50.1	75.1

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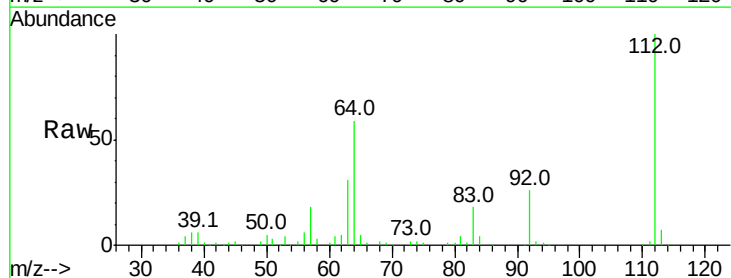
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



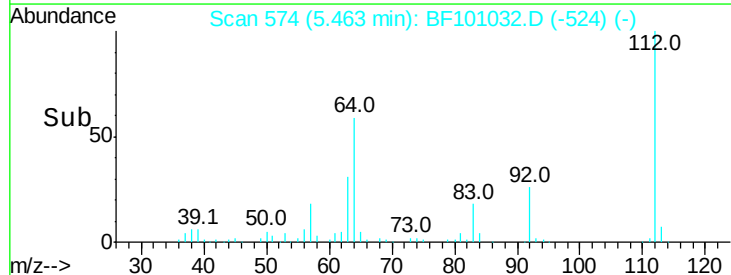
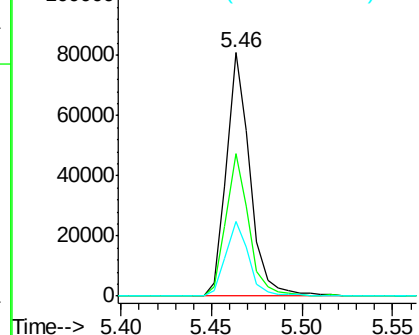
#5

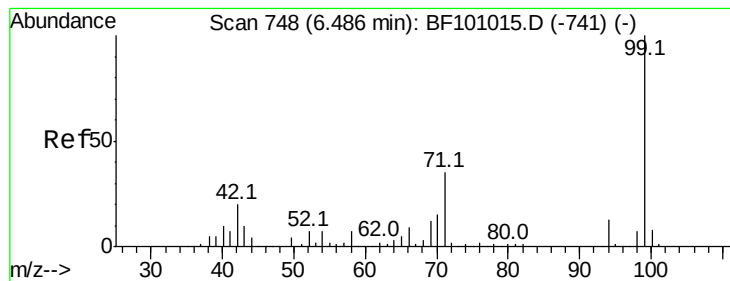
2-Fluorophenol
Concen: 22.796 ng
RT: 5.46 min Scan# 574
Delta R.T. -0.00 min
Lab File: BF101032.D
Acq: 30 Nov 2017 21:58

Tgt Ion	Ratio	Lower	Upper
112	100		
64	58.7	47.9	71.9
63	30.8	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: 26.212 ng

RT: 6.48 min Scan# 747

Delta R.T. -0.01 min

Lab File: BF101032.D

Acq: 30 Nov 2017 21:58

Instrument :

BNA_F

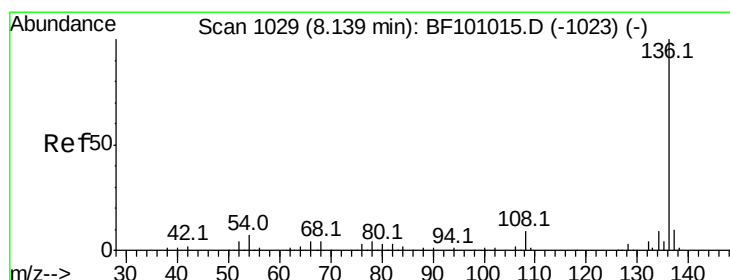
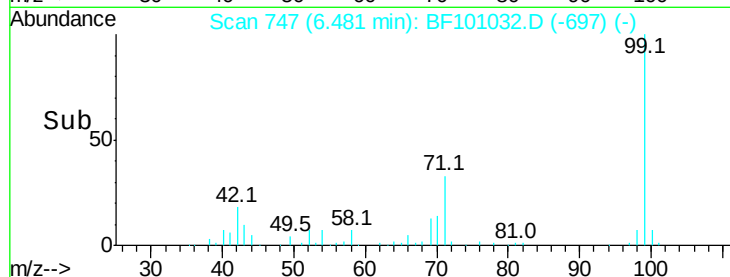
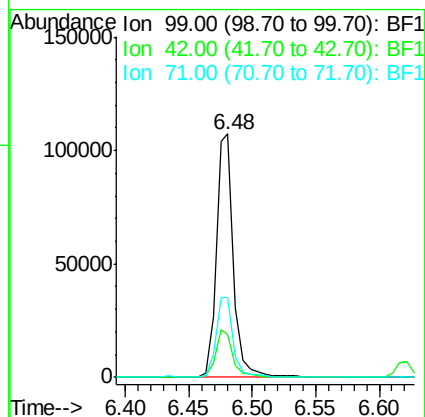
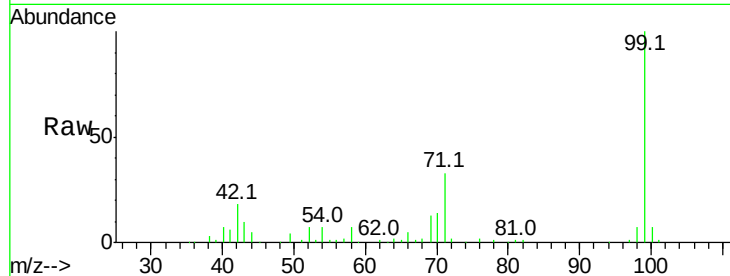
ClientSampled :

SU-03-112917

Tot Ion	Ion	Ratio	Resp	Lower	Upper
99	100		102304		
42	17.7	14.5	21.7		
71	32.6	25.4	38.0		

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#21

Naphthalene-d8

Concen: 20.000 ng

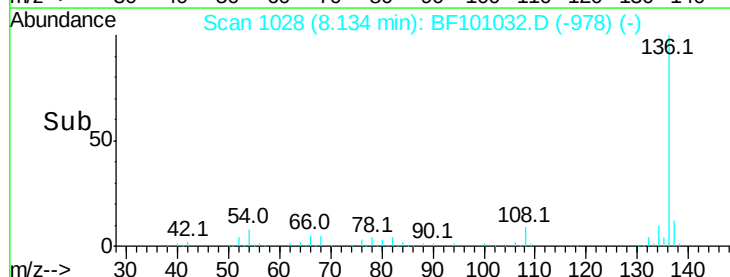
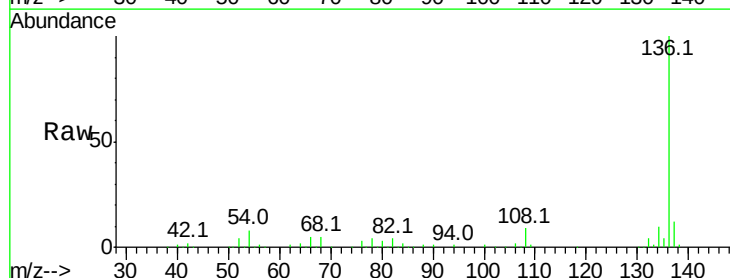
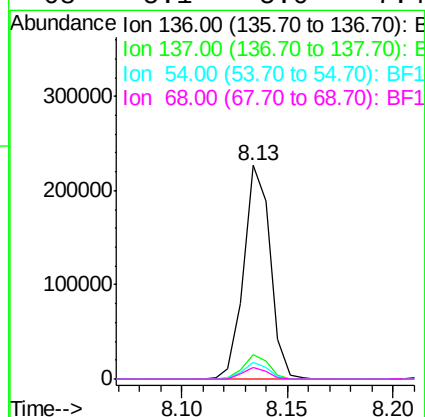
RT: 8.13 min Scan# 1028

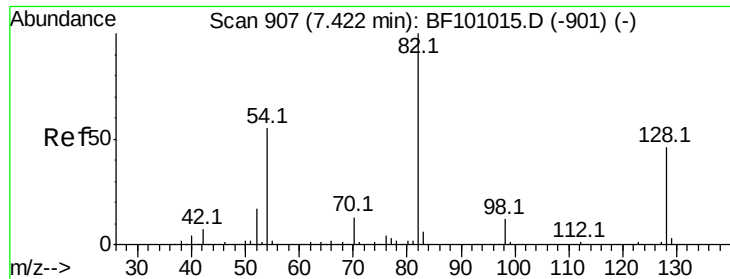
Delta R.T. -0.01 min

Lab File: BF101032.D

Acq: 30 Nov 2017 21:58

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
136	100		196204		
137	11.7	8.9	13.3		
54	8.0	6.6	9.8		
68	5.1	5.0	7.4		





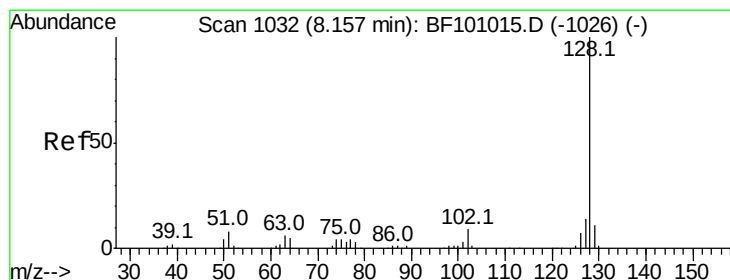
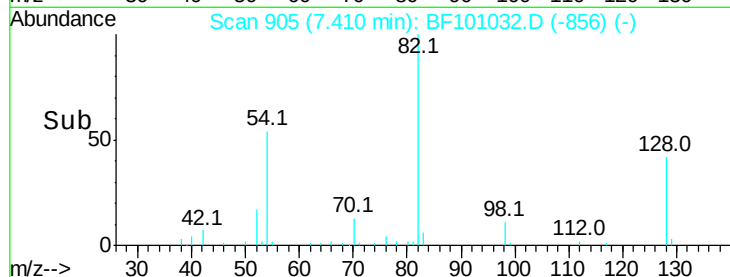
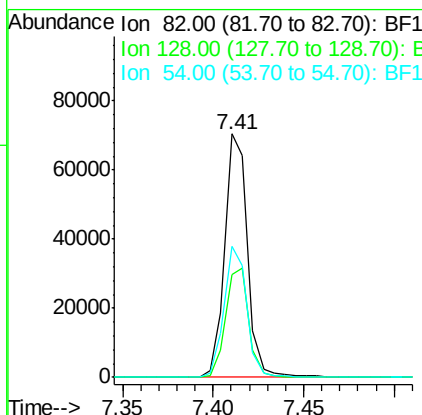
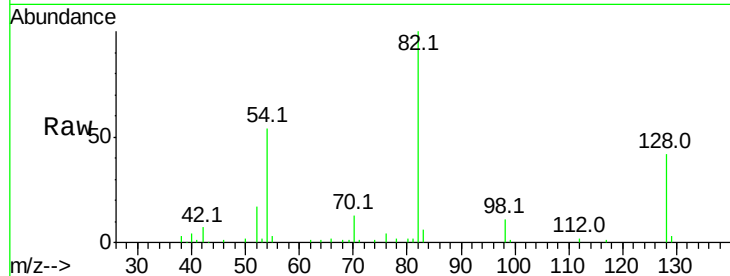
#23
Nitrobenzene-d5
Concen: 18.710 ng
RT: 7.41 min Scan# 905
Delta R.T. -0.01 min
Lab File: BF101032.D
Acq: 30 Nov 2017 21:58

Instrument :
BNA_F
ClientSampleId :
SU-03-112917

Tot Ion	Ratio	Lower	Upper
82	100		
128	42.2	36.1	54.1
54	53.8	41.4	62.2

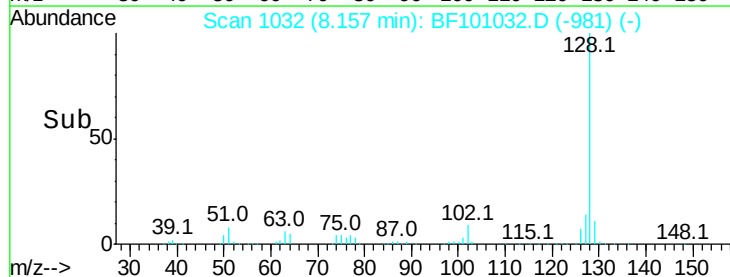
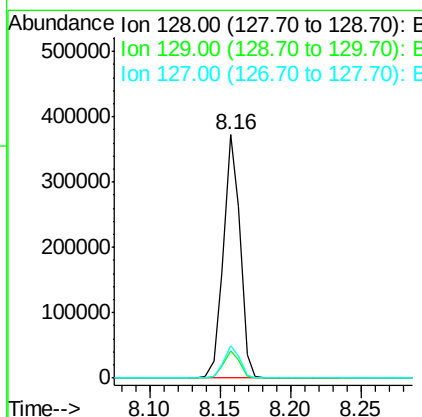
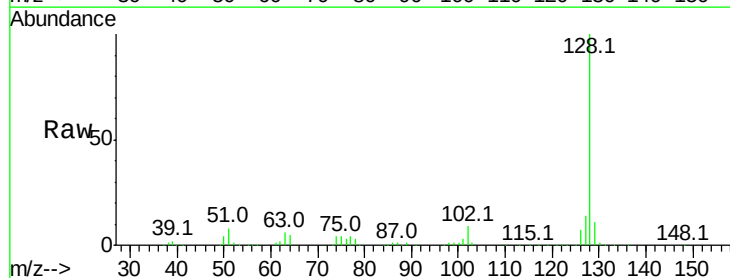
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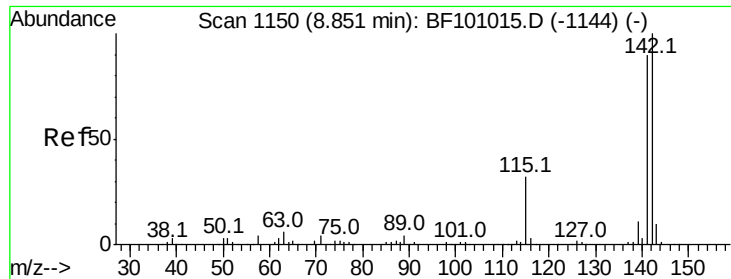
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#31
Naphthalene
Concen: 31.624 ng
RT: 8.16 min Scan# 1032
Delta R.T. 0.00 min
Lab File: BF101032.D
Acq: 30 Nov 2017 21:58

Tgt Ion	Ratio	Lower	Upper
128	100		
129	11.0	8.8	13.2
127	13.5	10.9	16.3





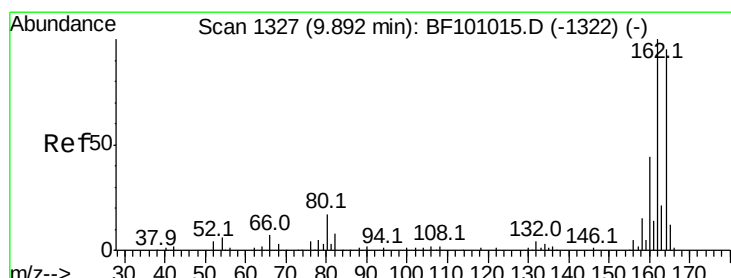
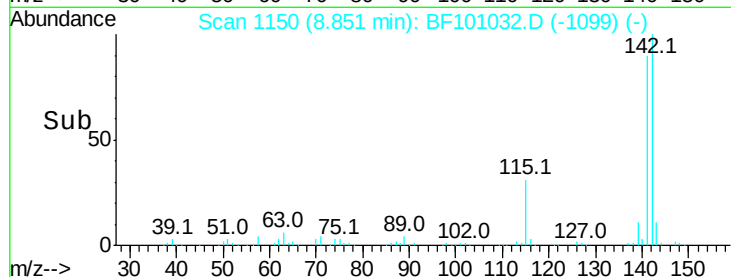
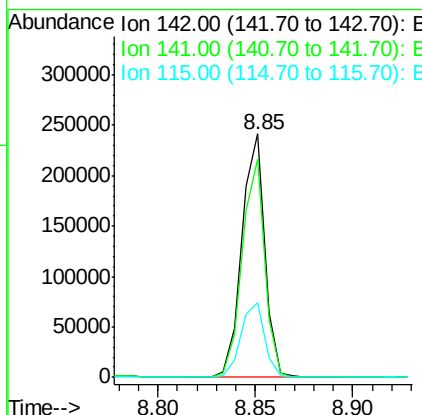
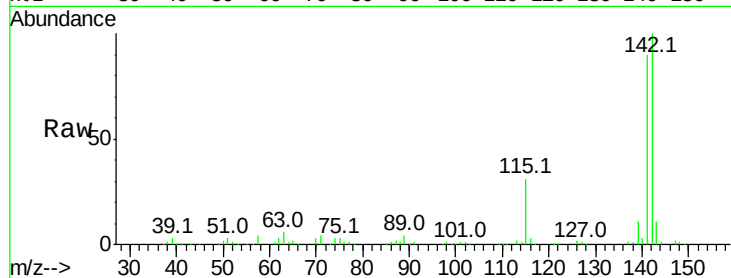
#37
2-Methylnaphthalene
Concen: 29.860 ng
RT: 8.85 min Scan# 1150
Delta R.T. 0.00 min
Lab File: BF101032.D
Acq: 30 Nov 2017 21:58

Instrument :
BNA_F
ClientSampleId :
SU-03-112917

Tot Ion	Ratio	Lower	Upper
142	100		
141	89.6	70.8	106.2
115	30.6	26.1	39.1

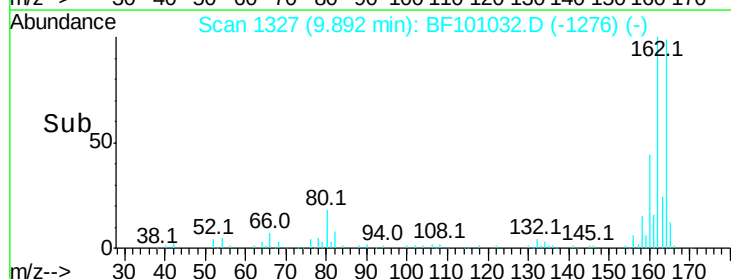
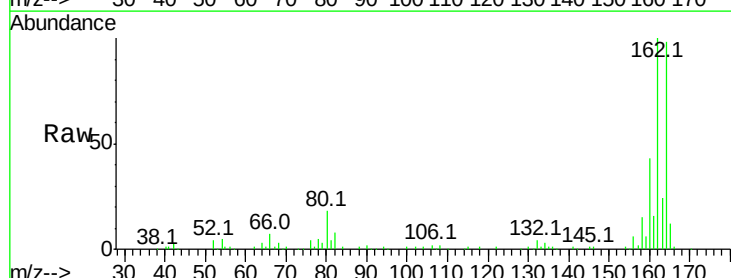
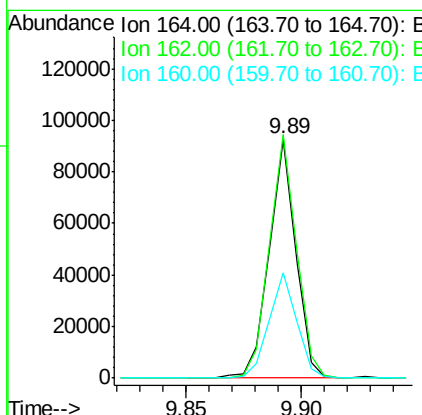
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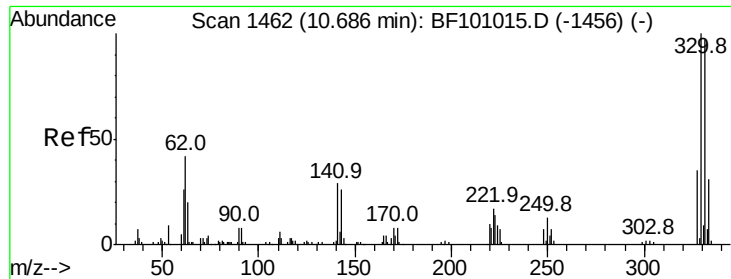
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#38
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.89 min Scan# 1327
Delta R.T. 0.00 min
Lab File: BF101032.D
Acq: 30 Nov 2017 21:58

Tgt Ion	Ratio	Lower	Upper
164	100		
162	102.1	86.1	129.1
160	44.2	38.3	57.5





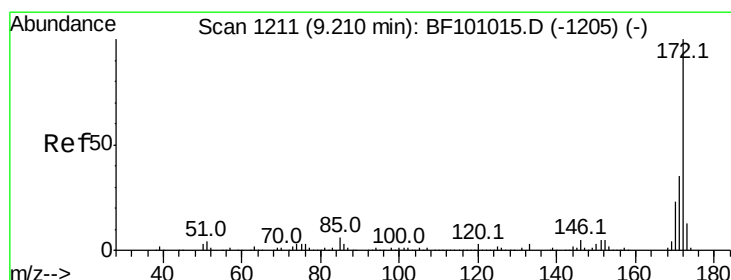
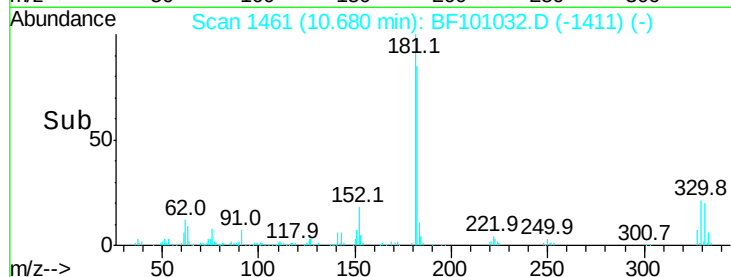
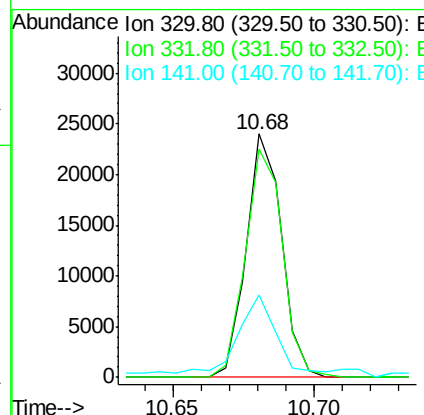
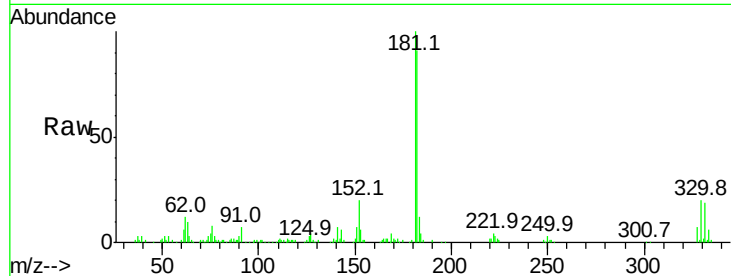
#41
 2,4,6-Tribromophenol
 Concen: 23.197 ng
 RT: 10.68 min Scan# 1461
 Delta R.T. -0.01 min
 Lab File: BF101032.D
 Acq: 30 Nov 2017 21:58

Instrument :
 BNA_F
 ClientSampleId :
 SU-03-112917

Tot Ion	Ratio	Resp	Lower	Upper
330	100	20827		
332	98.7	77.0	115.6	
141	46.6	29.9	44.9#	

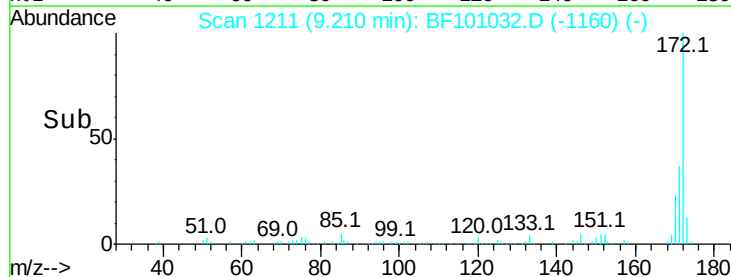
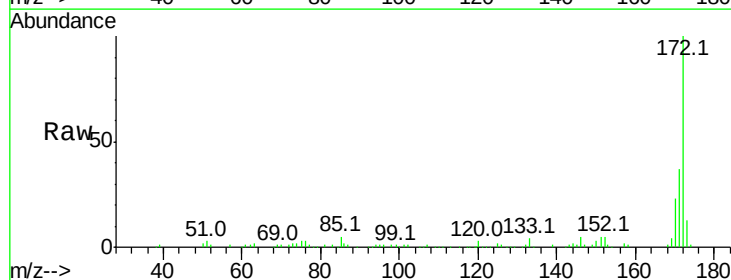
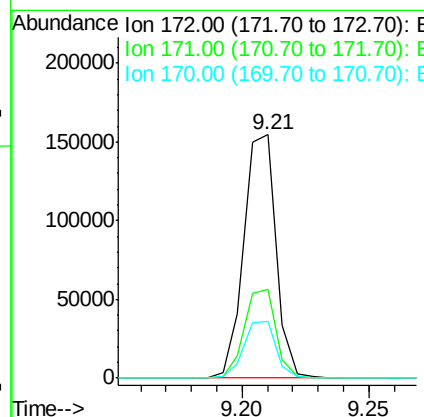
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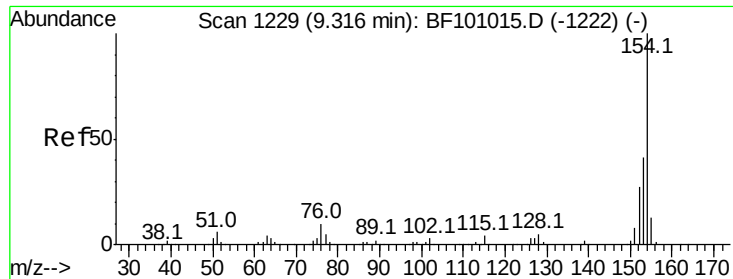
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#44
 2-Fluorobiphenyl
 Concen: 24.969 ng
 RT: 9.21 min Scan# 1211
 Delta R.T. 0.00 min
 Lab File: BF101032.D
 Acq: 30 Nov 2017 21:58

Tgt Ion	Ratio	Resp	Lower	Upper
172	100	136398		
171	36.7	29.7	44.5	
170	23.2	19.6	29.4	





#45

1,1'-Biphenyl

Concen: 7.334 ng

RT: 9.31 min Scan# 1228

Delta R.T. -0.01 min

Lab File: BF101032.D

Acq: 30 Nov 2017 21:58

Instrument :

BNA_F

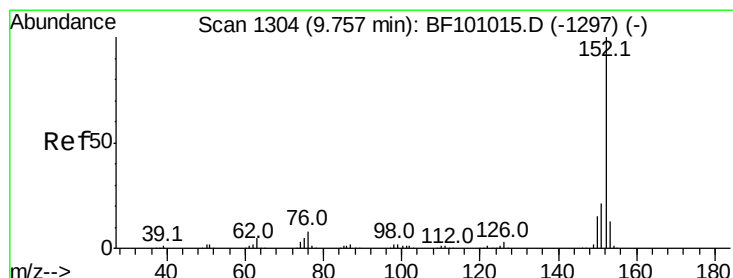
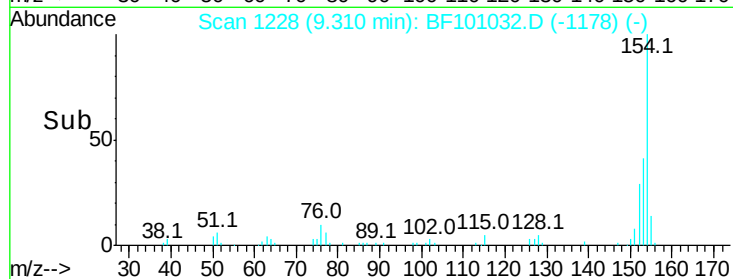
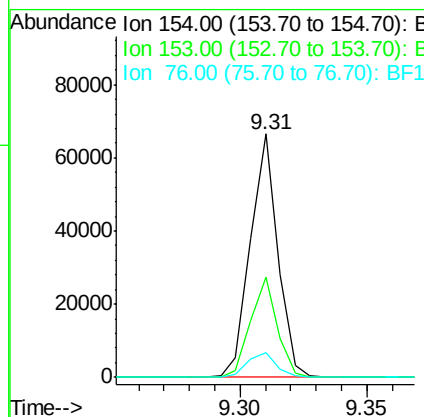
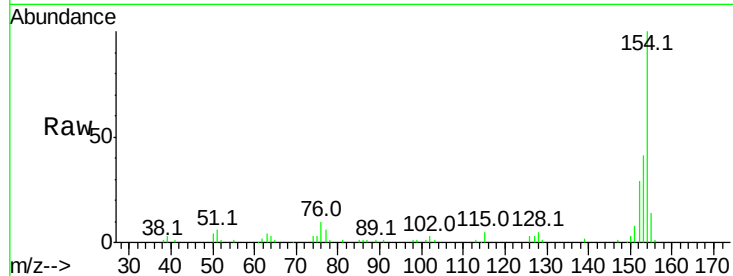
ClientSampleId :

SU-03-112917

Tot Ion:	154	Resp:	50223
Ion Ratio	Lower	Upper	
154	100		
153	41.2	21.3	61.3
76	10.2	0.0	34.0

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#48

Acenaphthylene

Concen: 18.830 ng

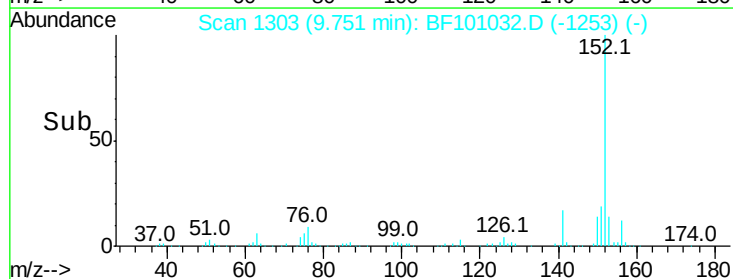
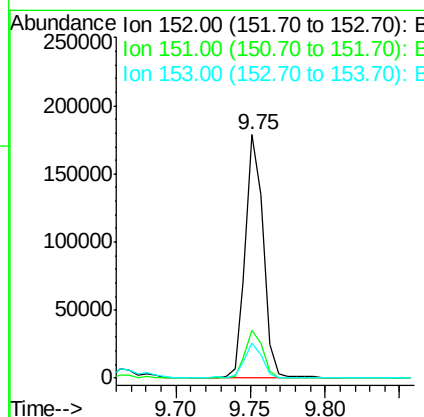
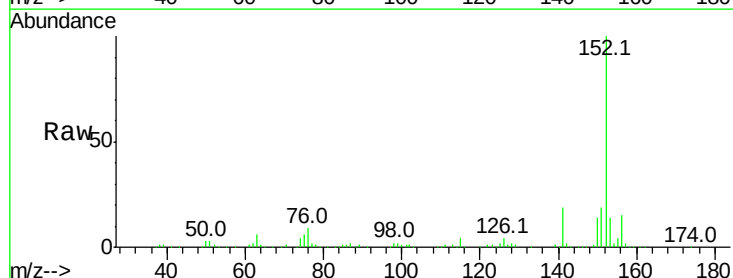
RT: 9.75 min Scan# 1303

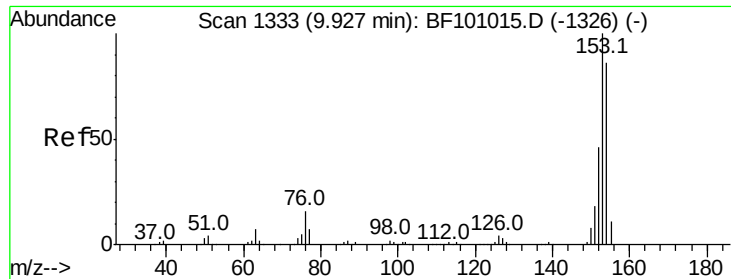
Delta R.T. -0.01 min

Lab File: BF101032.D

Acq: 30 Nov 2017 21:58

Tgt Ion:	152	Resp:	150487
Ion Ratio	Lower	Upper	
152	100		
151	19.4	16.3	24.5
153	14.5	10.7	16.1





#51

Acenaphthene

Concen: 70.664 ng

RT: 9.93 min Scan# 1333

Delta R.T. 0.00 min

Lab File: BF101032.D

Acq: 30 Nov 2017 21:58

Instrument :

BNA_F

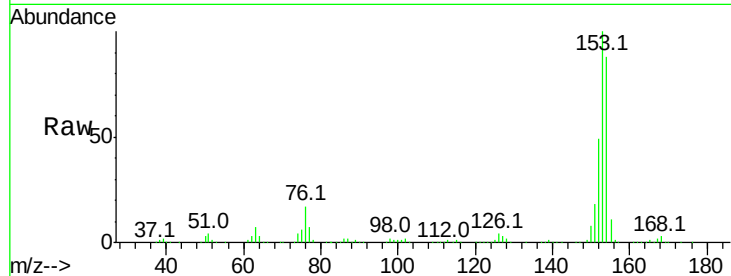
ClientSampleId :

SU-03-112917

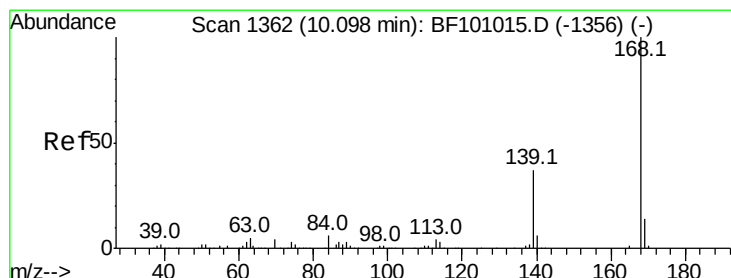
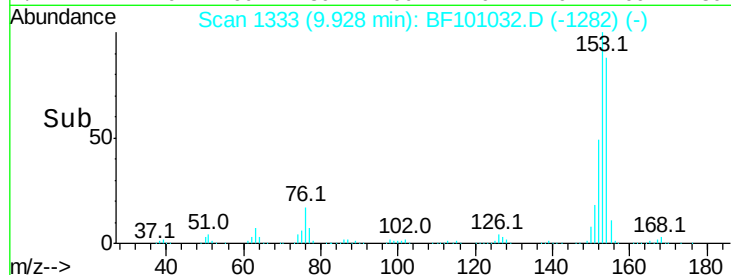
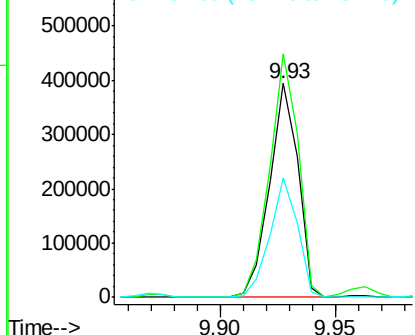
Tot Ion:	154	Resp:	338163
Ion Ratio	Lower	Upper	
154	100		
153	113.7	91.2	136.8
152	55.5	43.8	65.8

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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: 69.386 ng

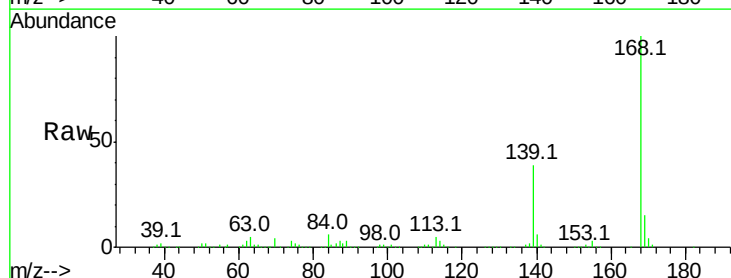
RT: 10.10 min Scan# 1362

Delta R.T. 0.00 min

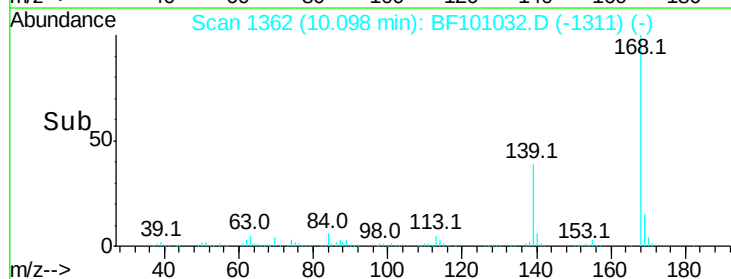
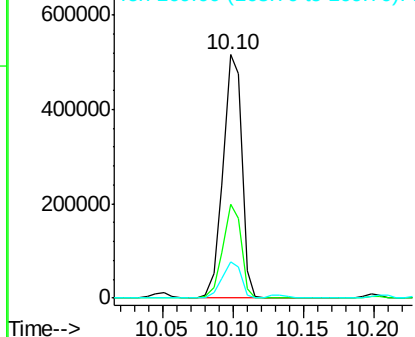
Lab File: BF101032.D

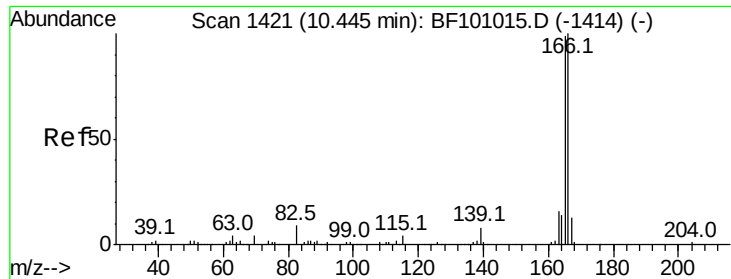
Acq: 30 Nov 2017 21:58

Tgt Ion:	168	Resp:	478508
Ion Ratio	Lower	Upper	
168	100		
139	38.6	30.1	45.1
169	15.0	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





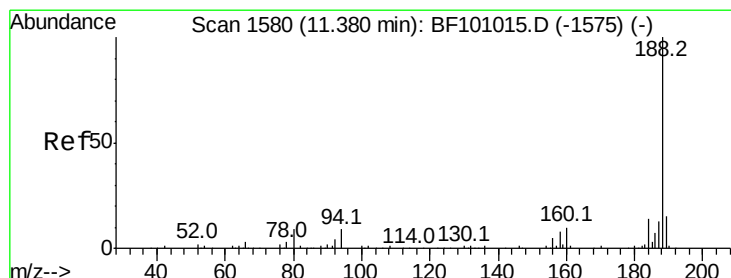
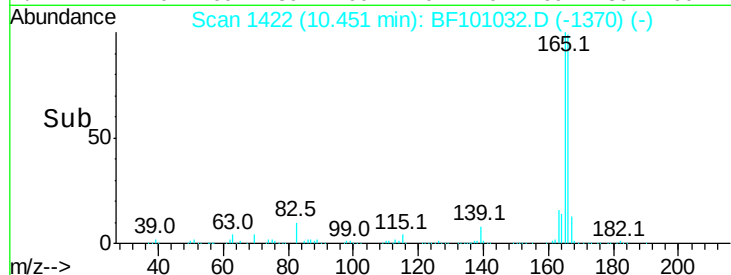
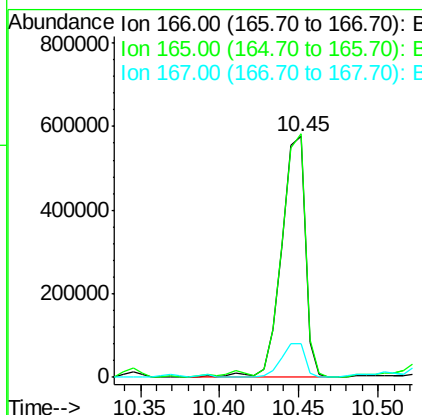
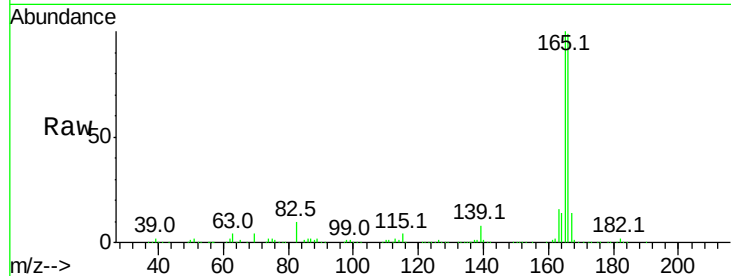
#57
Fluorene
 Concen: 106.594 ng
 RT: 10.45 min Scan# 1422
 Delta R.T. 0.01 min
 Lab File: BF101032.D
 Acq: 30 Nov 2017 21:58

Instrument :
 BNA_F
 ClientSampleId :
 SU-03-112917

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

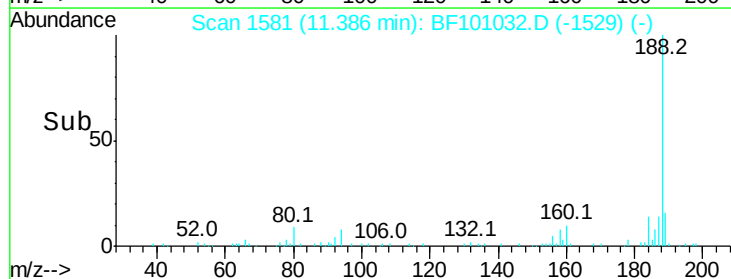
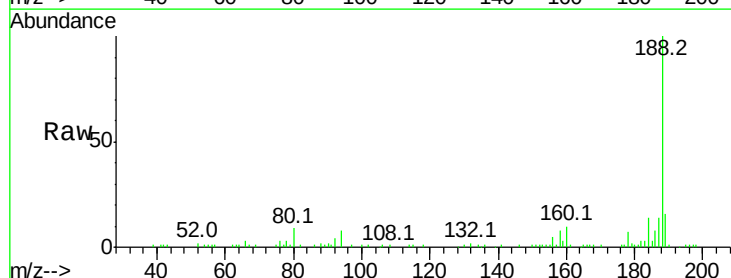
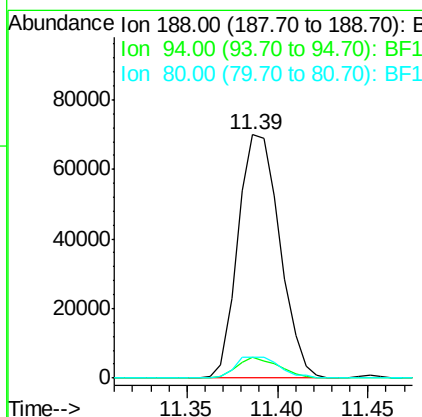
Manual Integrations
 APPROVED

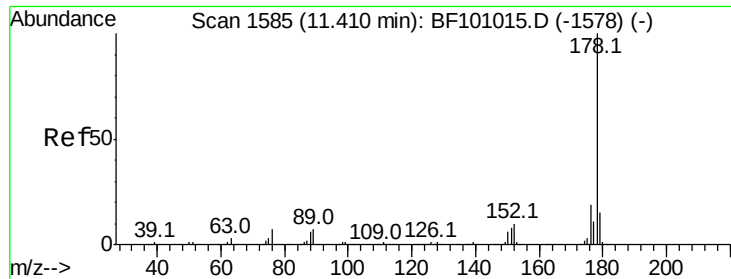
Sohil
 12/1/2017 11:13:06 AM



#63
Phenanthrene-d10
 Concen: 20.000 ng
 RT: 11.39 min Scan# 1581
 Delta R.T. 0.01 min
 Lab File: BF101032.D
 Acq: 30 Nov 2017 21:58

Tgt Ion	Ratio	Resp	Lower	Upper
188	100			
94	8.4	8.5	12.7#	
80	8.7	9.2	13.8#	





#70

Phenanthrene

Concen: 482.968 ng

RT: 11.43 min Scan# 1589

Delta R.T. 0.02 min

Lab File: BF101032.D

Acq: 30 Nov 2017 21:58

Instrument :

BNA_F

ClientSampleId :

SU-03-112917

Tot Ion:178 Resp: 2977996

Ion Ratio Lower Upper

178 100

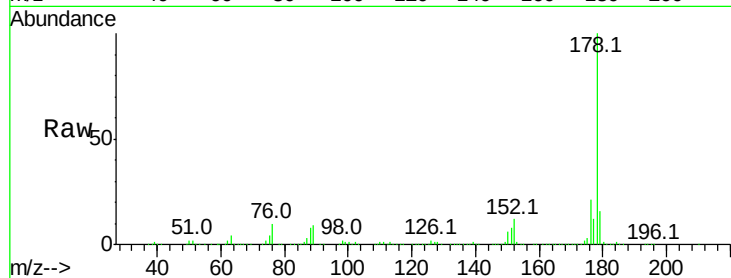
176 20.6 15.8 23.8

179 16.4 13.0 19.6

Manual Integrations
APPROVED

Sohil

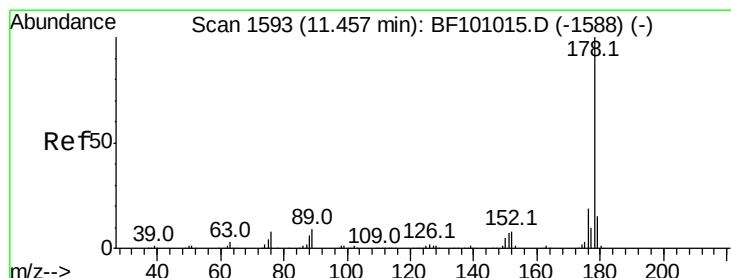
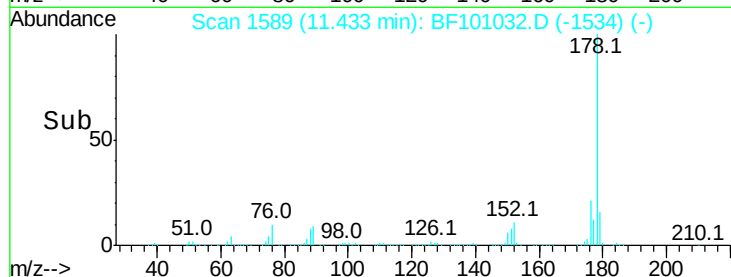
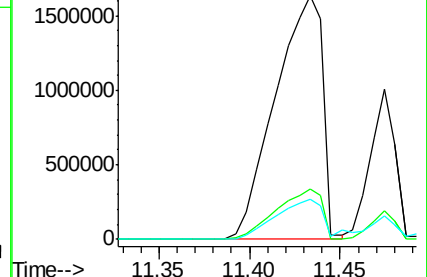
12/1/2017 11:13:06 AM



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: 155.037 ng

RT: 11.47 min Scan# 1596

Delta R.T. 0.02 min

Lab File: BF101032.D

Acq: 30 Nov 2017 21:58

Tgt Ion:178 Resp: 967515

Ion Ratio Lower Upper

178 100

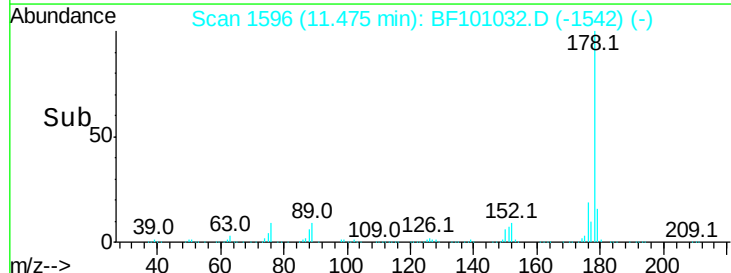
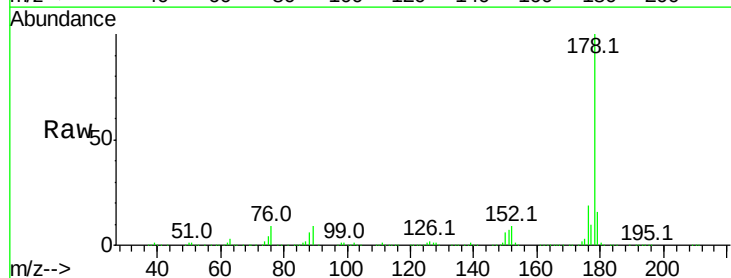
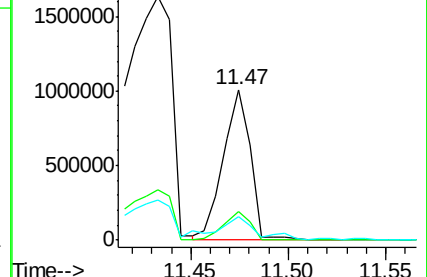
176 19.2 15.4 23.2

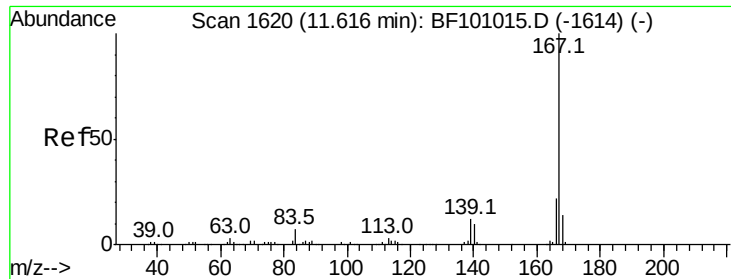
179 15.9 12.6 19.0

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: 43.214 ng

RT: 11.62 min Scan# 1620

Delta R.T. 0.00 min

Lab File: BF101032.D

Acq: 30 Nov 2017 21:58

Instrument :

BNA_F

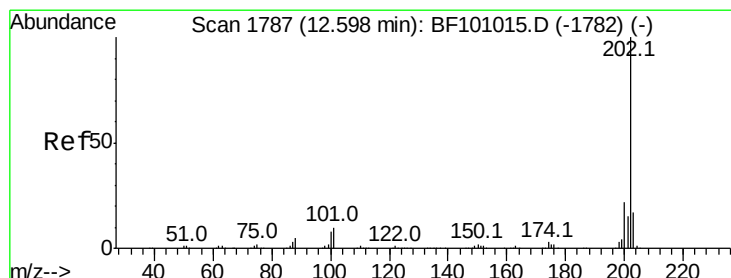
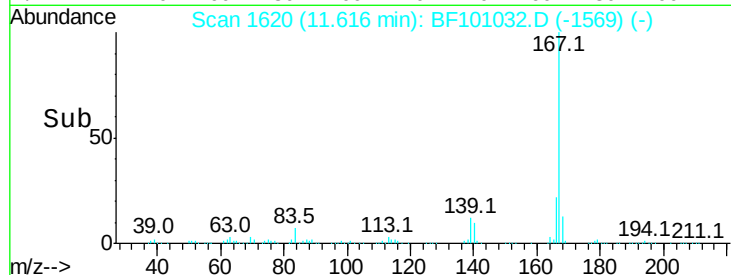
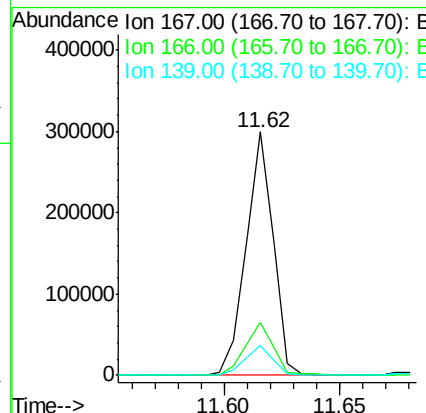
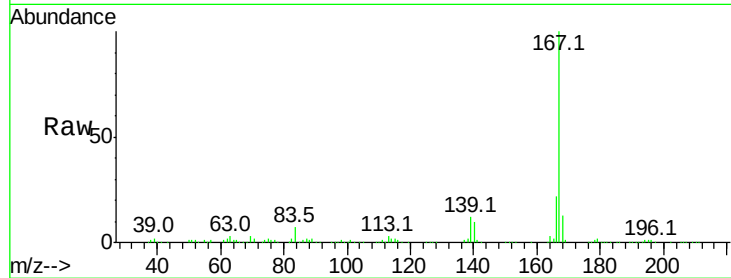
ClientSampleId :

SU-03-112917

Tot Ion:	167	Resp:	246397
Ion Ratio	Lower	Upper	
167	100		
166	21.8	17.6	26.4
139	12.4	10.9	16.3

Manual Integrations
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#74

Fluoranthene

Concen: 422.206 ng

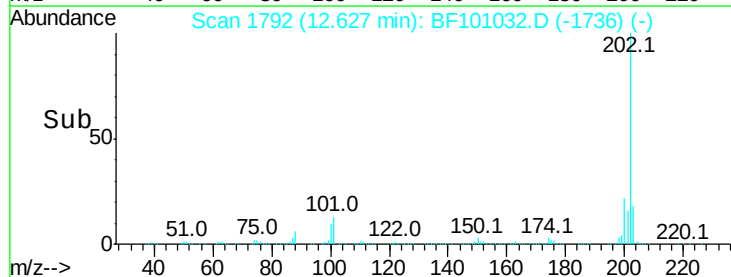
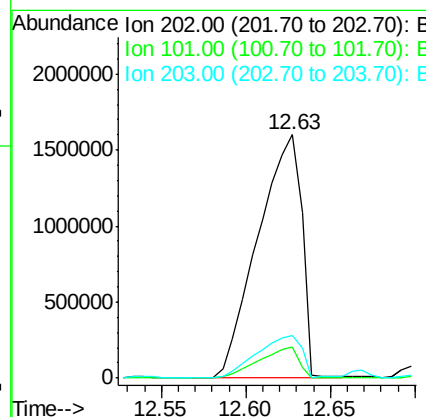
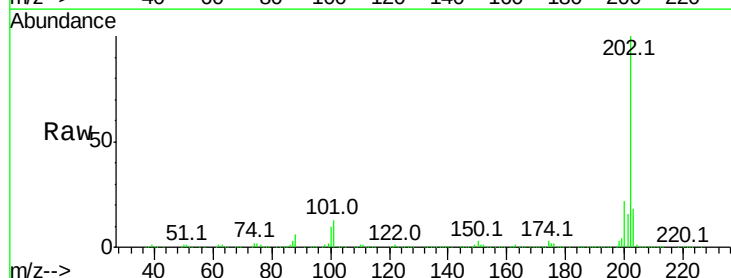
RT: 12.63 min Scan# 1792

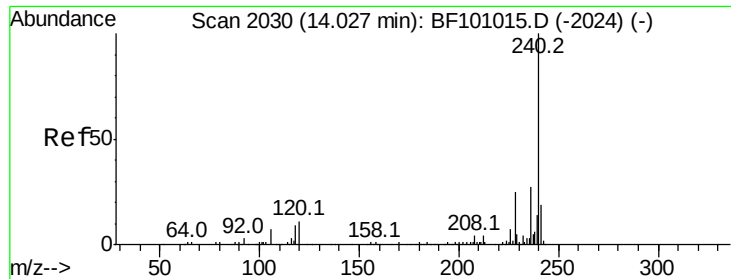
Delta R.T. 0.03 min

Lab File: BF101032.D

Acq: 30 Nov 2017 21:58

Tgt Ion:	202	Resp:	2885751
Ion Ratio	Lower	Upper	
202	100		
101	12.6	0.0	34.1
203	17.6	0.0	38.1





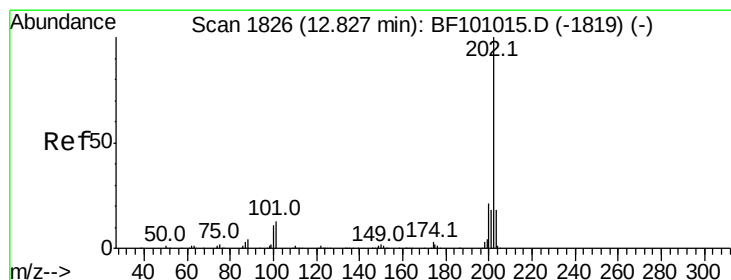
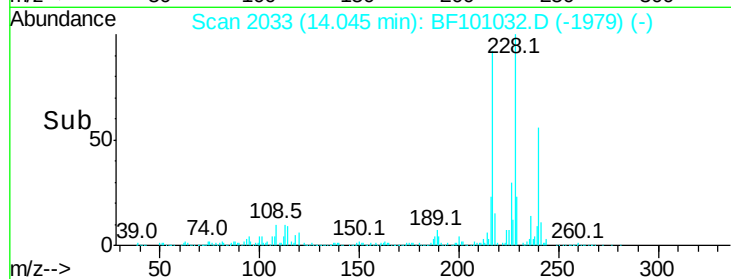
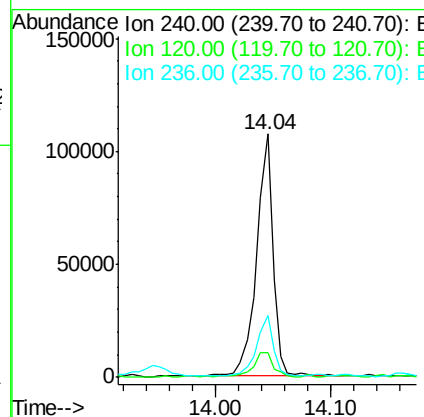
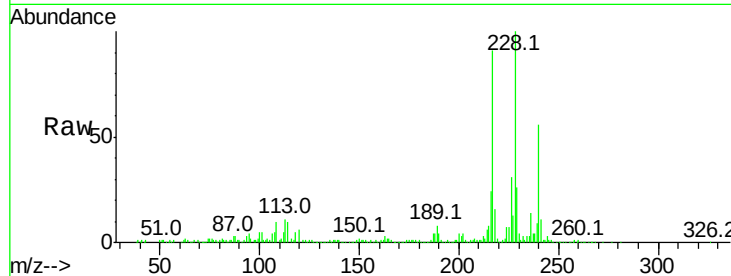
#75
Chrysene-d12
Concen: 20.000 ng
RT: 14.04 min Scan# 2033
Delta R.T. 0.02 min
Lab File: BF101032.D
Acq: 30 Nov 2017 21:58

Instrument :
BNA_F
ClientSampleId :
SU-03-112917

Tot Ion	Ratio	Resp	Lower	Upper
240	100			
120	10.3	9.5	14.3	
236	25.2	20.7	31.1	

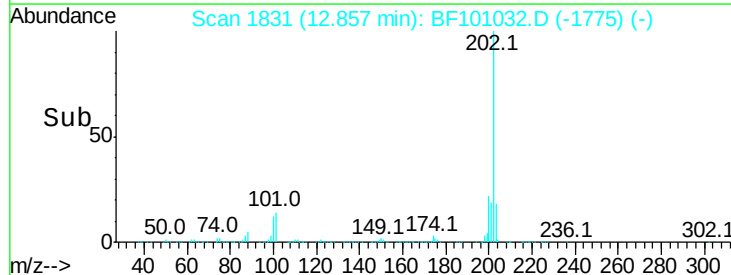
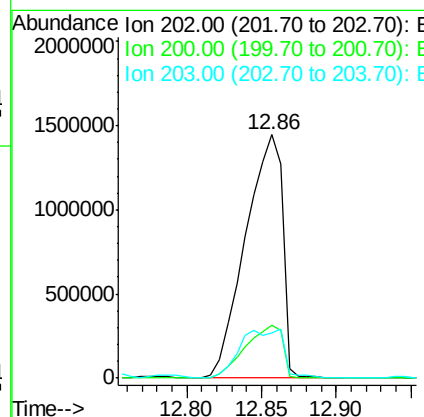
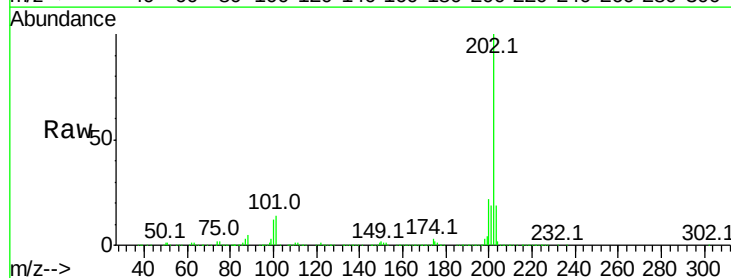
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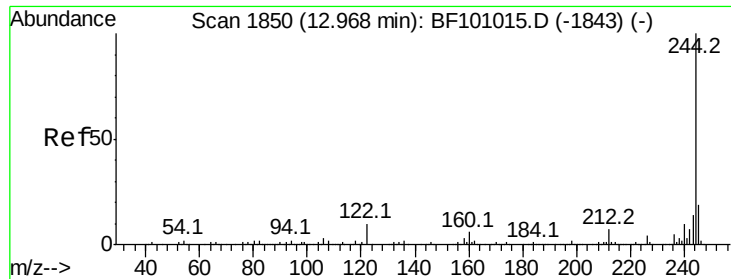
Sohil
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#77
Pyrene
Concen: 333.931 ng
RT: 12.86 min Scan# 1831
Delta R.T. 0.03 min
Lab File: BF101032.D
Acq: 30 Nov 2017 21:58

Tgt Ion	Ratio	Resp	Lower	Upper
202	100			
200	21.9	17.4	26.2	
203	18.7	14.3	21.5	





#78

Terphenyl-d14

Concen: 22.495 ng

RT: 12.96 min Scan# 1849

Delta R.T. -0.01 min

Lab File: BF101032.D

Acq: 30 Nov 2017 21:58

Instrument :

BNA_F

ClientSampleId :

SU-03-112917

Tot Ion:244 Resp: 110507
Ion Ratio Lower Upper

244 100

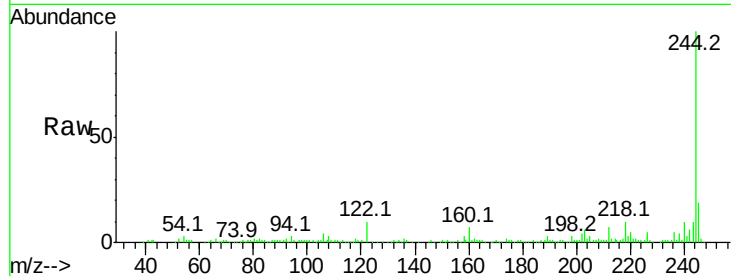
212 7.0 5.4 8.0

122 10.3 11.0 16.4#

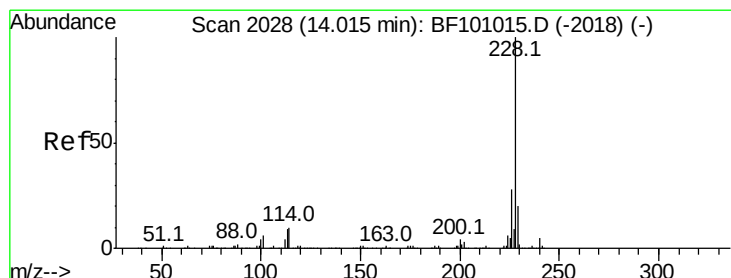
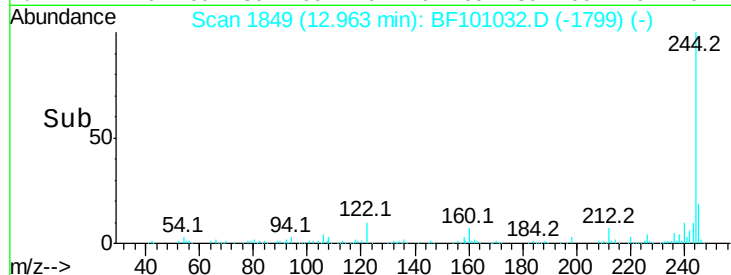
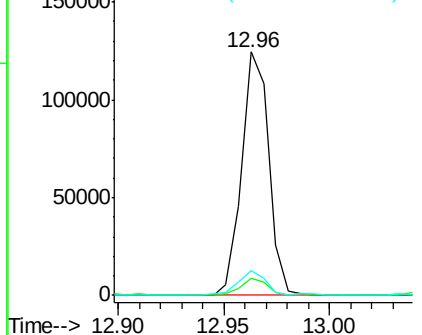
Manual Integrations
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Abundance Ion 244.00 (243.70 to 244.70): E
Ion 212.00 (211.70 to 212.70): E
Ion 122.00 (121.70 to 122.70): E



#80

Benzo(a)anthracene

Concen: 191.648 ng

RT: 14.03 min Scan# 2031

Delta R.T. 0.02 min

Lab File: BF101032.D

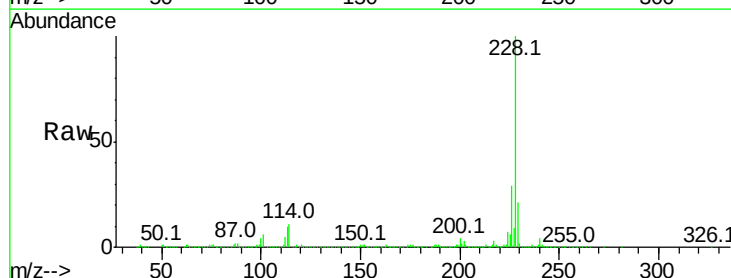
Acq: 30 Nov 2017 21:58

Tgt Ion:228 Resp: 1300194
Ion Ratio Lower Upper

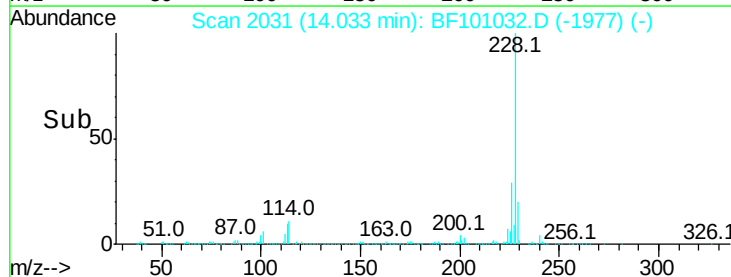
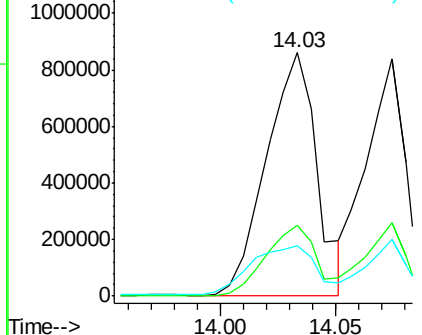
228 100

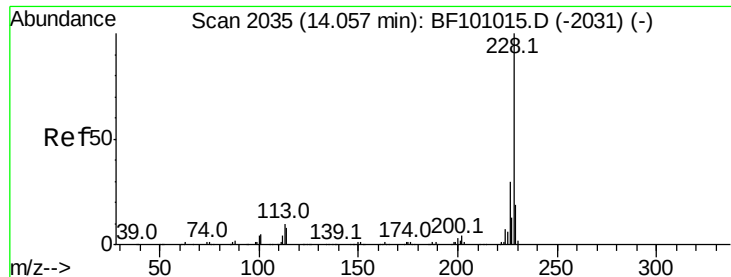
226 29.1 22.6 33.8

229 20.5 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





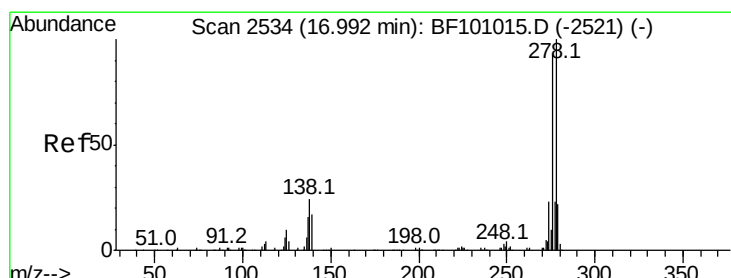
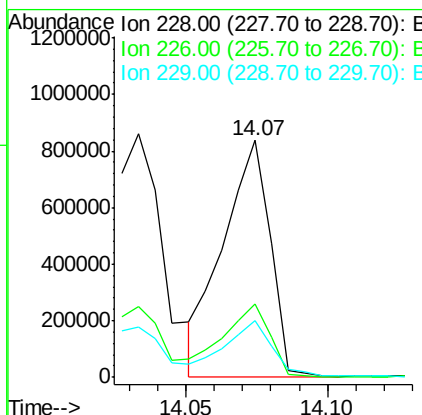
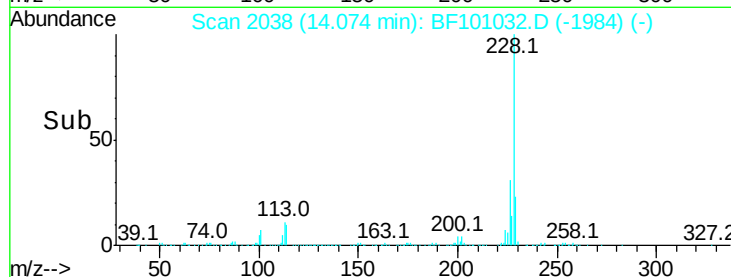
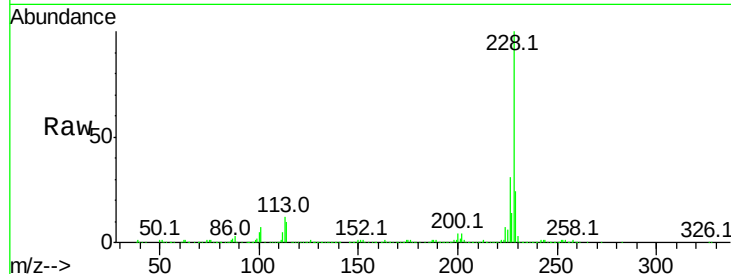
#82
Chrysene
Concen: 153.685 ng
RT: 14.07 min Scan# 2038
Delta R.T. 0.02 min
Lab File: BF101032.D
Acq: 30 Nov 2017 21:58

Instrument :
BNA_F
ClientSampleId :
SU-03-112917

Tot Ion:	228	Resp:	968322
Ion Ratio	Lower	Upper	
228	100		
226	31.1	25.0	37.6
229	23.7	16.2	24.4

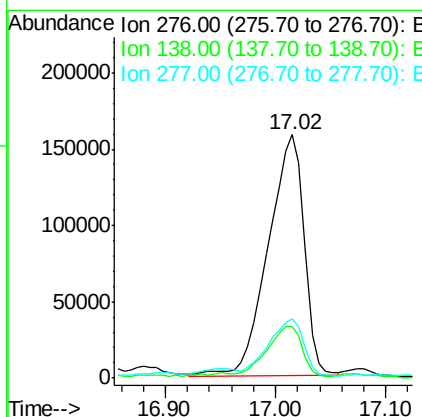
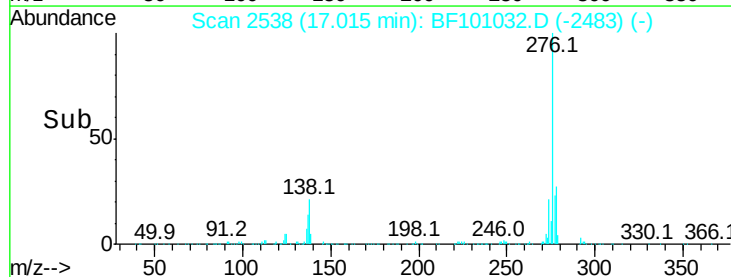
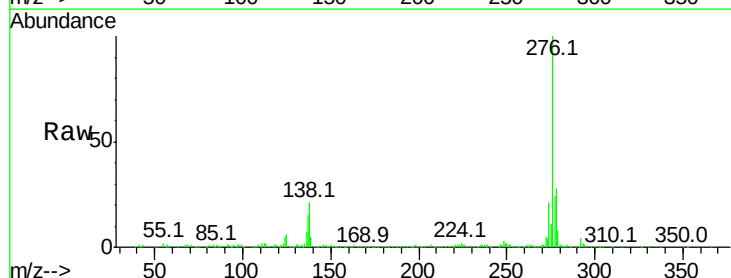
Manual Integrations
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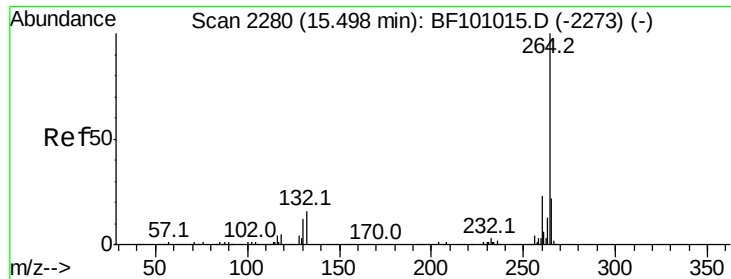
Sohil
12/1/2017 11:13:06 AM



#85
Indeno(1,2,3-cd)pyrene
Concen: 63.612 ng
RT: 17.02 min Scan# 2538
Delta R.T. 0.02 min
Lab File: BF101032.D
Acq: 30 Nov 2017 21:58

Tgt Ion:	276	Resp:	356329
Ion Ratio	Lower	Upper	
276	100		
138	20.4	25.0	37.6#
277	23.1	20.1	30.1





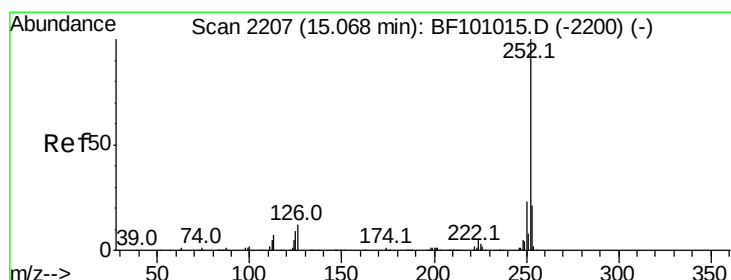
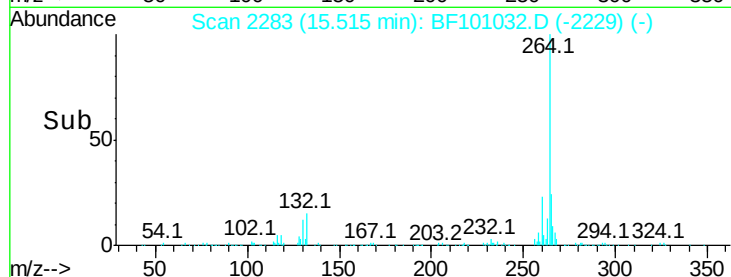
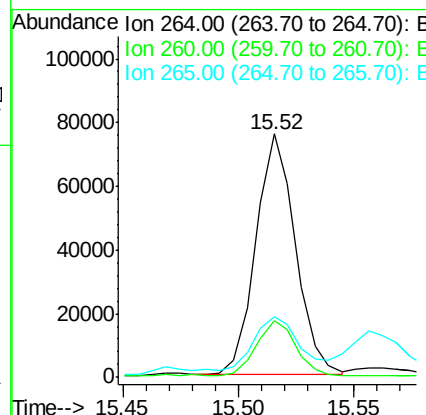
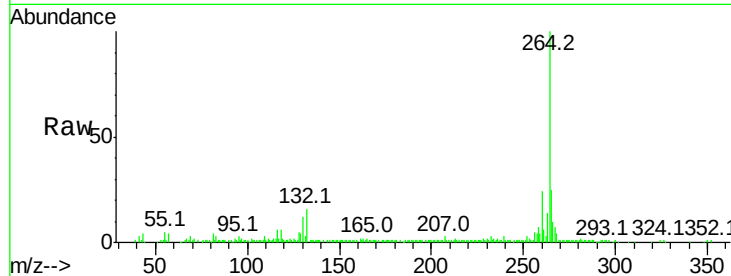
#86
Pervlene-d12
Concen: 20.000 ng
RT: 15.52 min Scan# 2283
Delta R.T. 0.02 min
Lab File: BF101032.D
Acq: 30 Nov 2017 21:58

Instrument :
BNA_F
ClientSampled :
SU-03-112917

Tot Ion	Ratio	Lower	Upper
264	100		
260	23.5	19.2	28.8
265	25.0	17.5	26.3

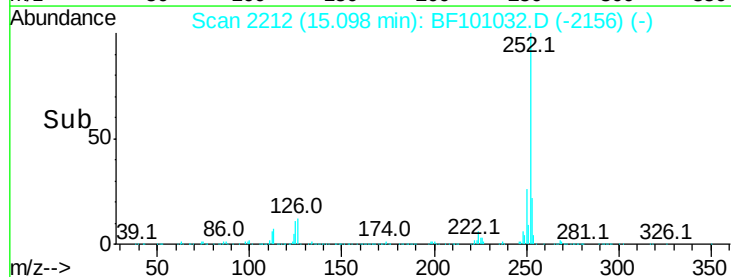
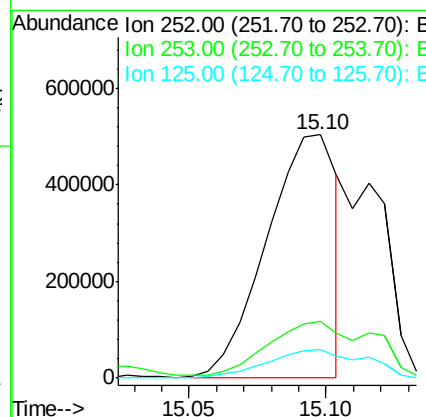
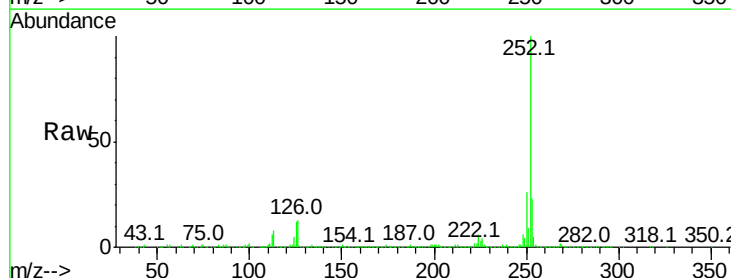
Manual Integrations
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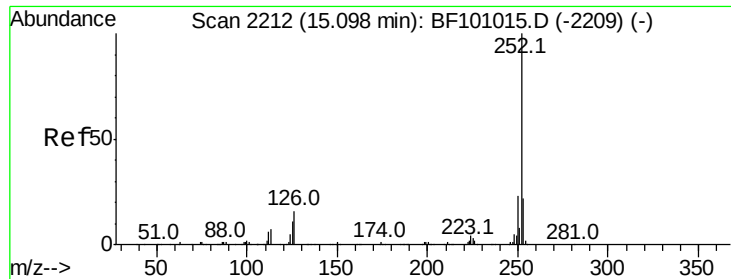
Sohil
12/1/2017 11:13:06 AM



#87
Benzo(b)fluoranthene
Concen: 166.835 ng m
RT: 15.10 min Scan# 2212
Delta R.T. 0.03 min
Lab File: BF101032.D
Acq: 30 Nov 2017 21:58

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.3	17.0	25.6
125	11.6	9.0	13.6





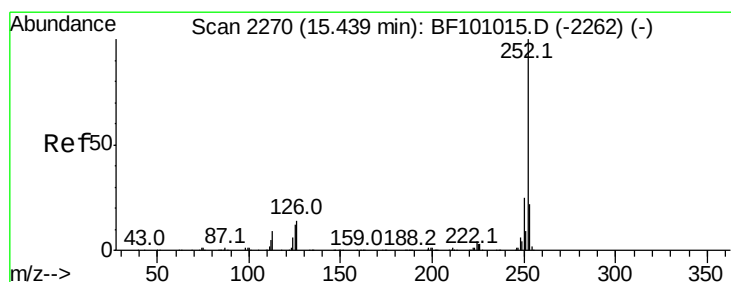
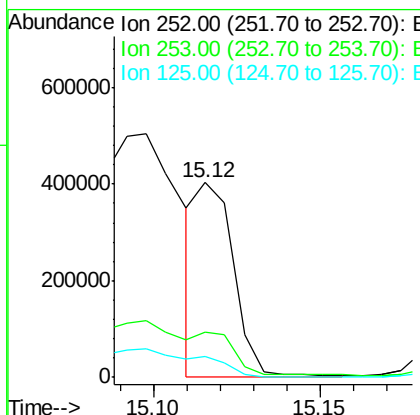
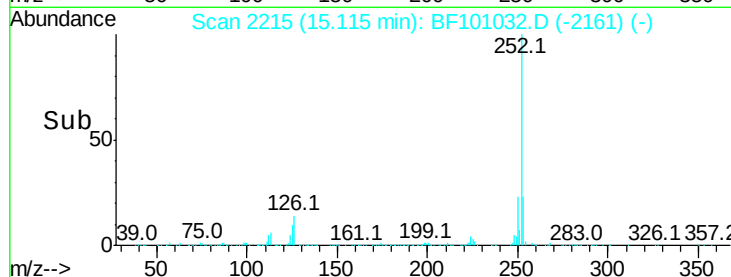
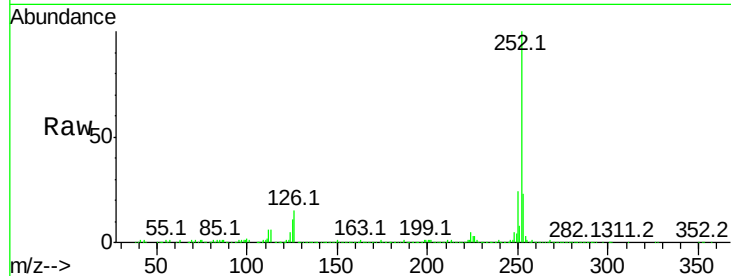
#88
Benzo(k)fluoranthene
Concen: 58.597 ng/mL
RT: 15.12 min Scan# 2215
Delta R.T. 0.02 min
Lab File: BF101032.D
Acq: 30 Nov 2017 21:58

Instrument :
BNA_F
ClientSampleId :
SU-03-112917

Tot Ion	Ratio	Lower	Upper
252	100		
253	23.1	17.9	26.9
125	10.7	10.2	15.2

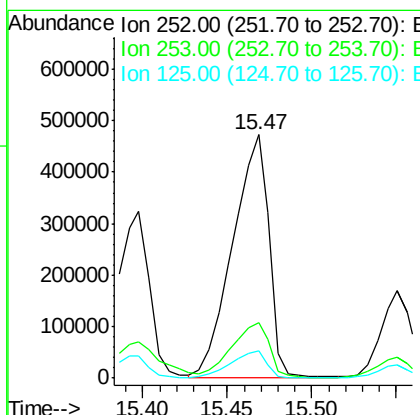
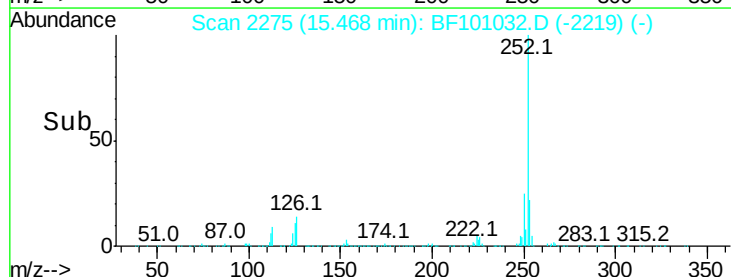
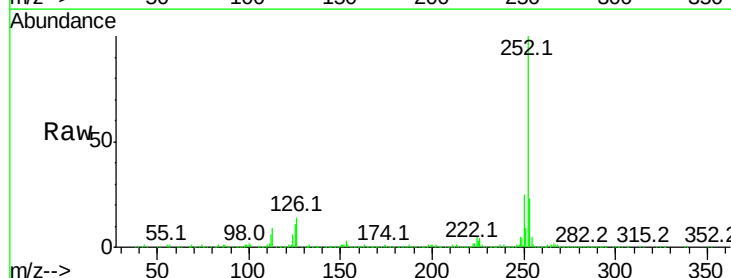
Manual Integrations
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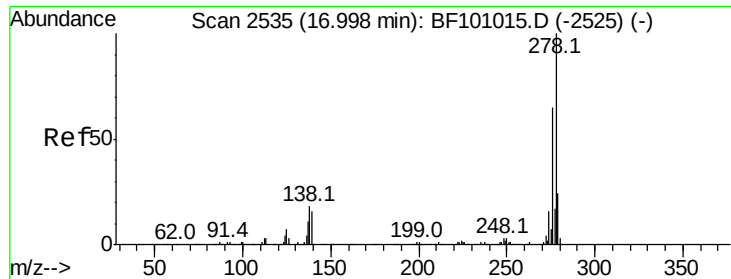
Sohil
12/1/2017 11:13:06 AM



#89
Benzo(a)pyrene
Concen: 143.487 ng/mL
RT: 15.47 min Scan# 2275
Delta R.T. 0.03 min
Lab File: BF101032.D
Acq: 30 Nov 2017 21:58

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.0	17.1	25.7
125	11.5	9.8	14.6





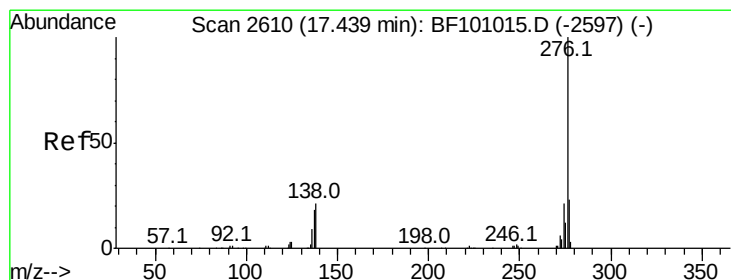
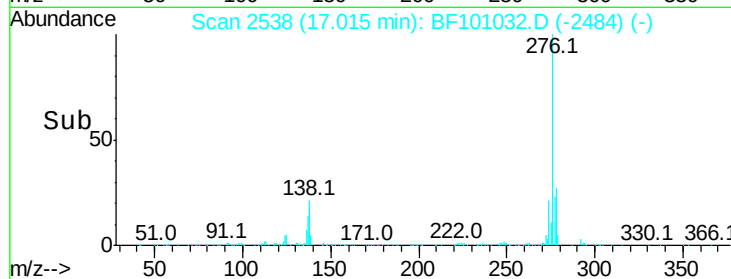
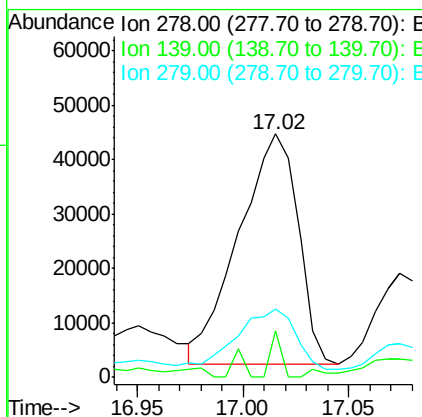
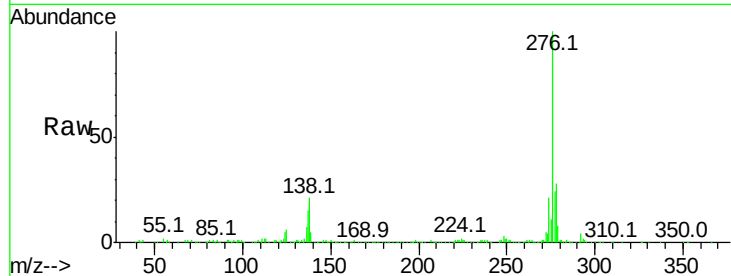
#90
Dibenzo(a,h)anthracene
Concen: 18.952 ng
RT: 17.02 min Scan# 2538
Delta R.T. 0.02 min
Lab File: BF101032.D
Acq: 30 Nov 2017 21:58

Instrument :
BNA_F
ClientSampleId :
SU-03-112917

Tot Ion	Ratio	Lower	Upper
278	100		
139	19.1	15.9	23.9
279	28.0	19.0	28.4

Manual Integrations
APPROVED

Sohil
12/1/2017 11:13:06 AM



#91
Benzo(g,h,i)perylene
Concen: 80.438 ng
RT: 17.47 min Scan# 2615
Delta R.T. 0.03 min
Lab File: BF101032.D
Acq: 30 Nov 2017 21:58

Tgt Ion	Ratio	Lower	Upper
276	100		
277	25.2	17.9	26.9
138	21.5	21.8	32.8#

