

Data Path : U:\HPCHEM1\BNA F\DATA\BF010518\
 Data File : BF101921.D
 Acq On : 5 Jan 2018 11:26
 Operator : SJ/JU
 Sample : J1027-05
 Misc :
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 RBR251678

Manual Integrations
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 1/8/2018 4:21:38 PM

Quant Time: Jan 05 12:47:35 2018
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF121417.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Jan 05 12:29:26 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.77	152	146204	20.00	ng	0.00
21) Naphthalene-d8	8.05	136	541007	20.00	ng	0.00
38) Acenaphthene-d10	9.81	164	199034	20.00	ng	0.00
63) Phenanthrene-d10	11.30	188	290803	20.00	ng	0.00
75) Chrysene-d12	13.96	240	262595	20.00	ng	0.00
86) Perylene-d12	15.43	264	277392	20.00	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.40	112	1050464	107.03	ng	0.00
7) Phenol-d6	6.43	99	1240963	101.59	ng	0.00
23) Nitrobenzene-d5	7.35	82	765623	78.78	ng	0.00
41) 2,4,6-Tribromophenol	10.61	330	139923	72.96	ng	0.00
44) 2-Fluorobiphenyl	9.13	172	926167	72.18	ng	0.00
78) Terphenyl-d14	12.88	244	673958	61.87	ng	0.00
Target Compounds						Qvalue
31) Naphthalene	8.07	128	217300	7.978	ng	100
37) 2-Methylnaphthalene	8.77	142	60201	3.393	ng	98
48) Acenaphthylene	9.67	152	123506	5.790	ng	99
49) Dimethylphthalate	9.53	163	142654	8.911	ng	99
51) Acenaphthene	9.84	154	54354	4.241	ng	100
54) Dibenzofuran	10.02	168	117951	7.242	ng	96
57) Fluorene	10.36	166	104152	7.559	ng	96
70) Phenanthrene	11.33	178	1063355	65.753	ng	99
71) Anthracene	11.38	178	229002m	13.863	ng	
72) Carbazole	11.55	167	109577	7.085	ng	99
74) Fluoranthene	12.53	202	1210886	71.334	ng	98
77) Pyrene	12.76	202	1118287	56.744	ng	99
80) Benzo(a)anthracene	13.94	228	614107	35.417	ng	97
82) Chrysene	13.99	228	595041	36.346	ng	97
85) Indeno(1,2,3-cd)pyrene	16.92	276	252730	17.335	ng	# 90
87) Benzo(b)fluoranthene	15.00	252	747049m	44.184	ng	
88) Benzo(k)fluoranthene	15.03	252	214984m	13.078	ng	
89) Benzo(a)pyrene	15.37	252	519112	33.305	ng	97
90) Dibenzo(a,h)anthracene	16.90	278	75076	5.610	ng	97
91) Benzo(a,h,i)perylene	17.37	276	211034	15.926	ng	96

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

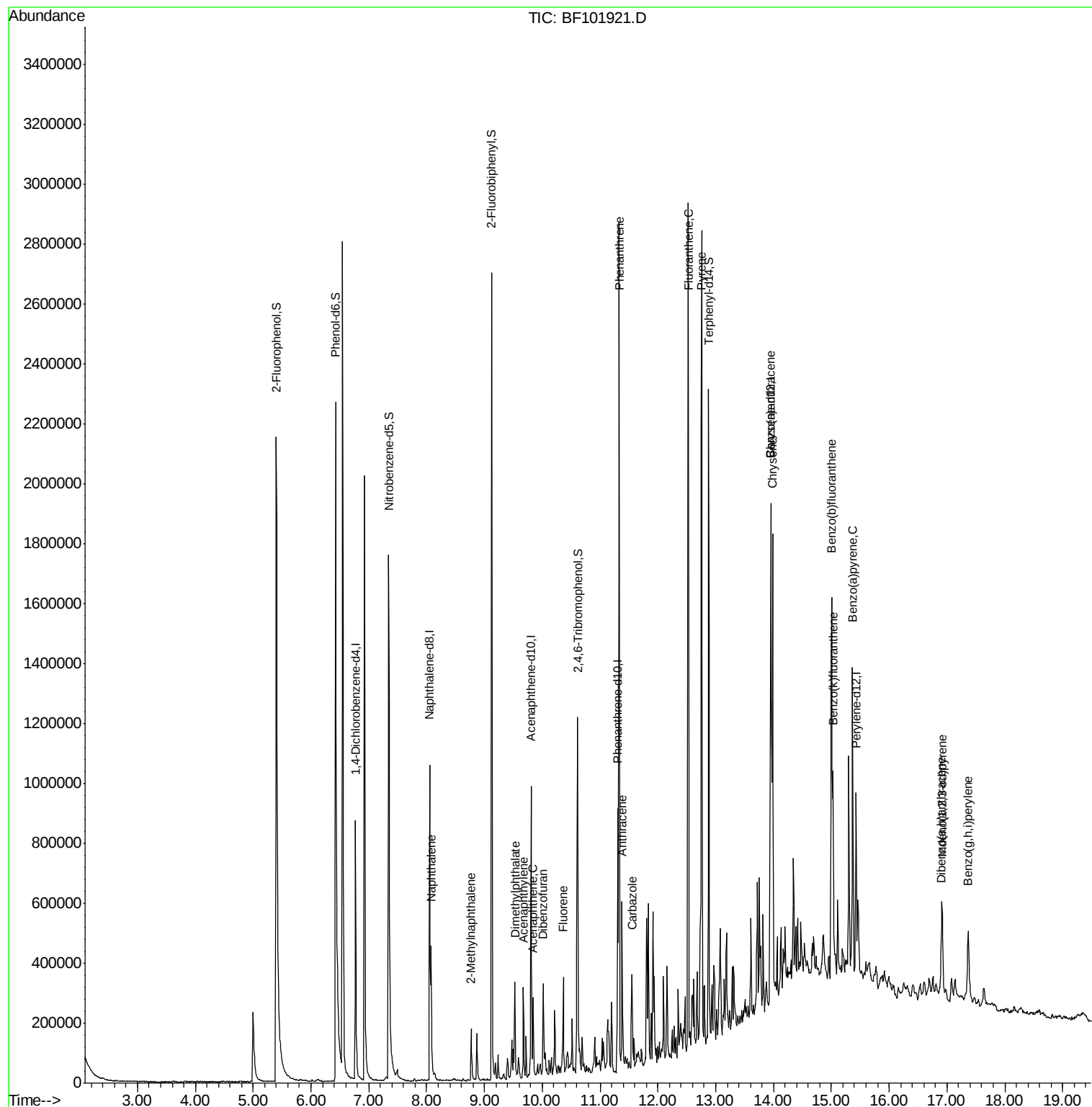
Data Path : U:\HPCHEM1\BNA F\DATA\BF010518\
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ALS Vial : 6 Sample Multiplier: 1

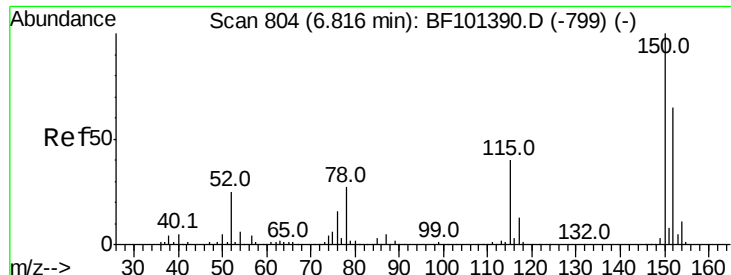
Instrument :
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#1

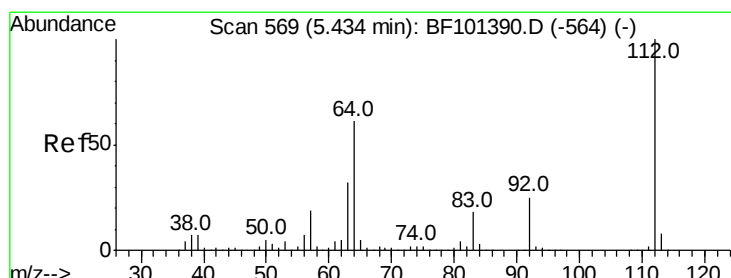
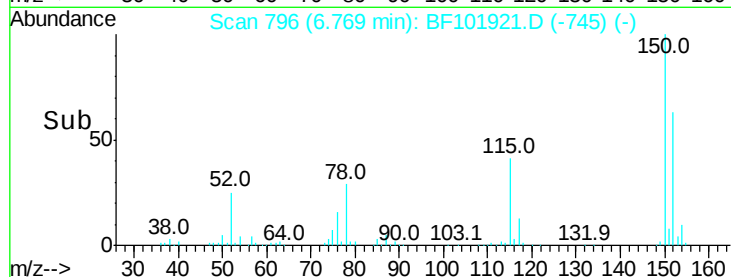
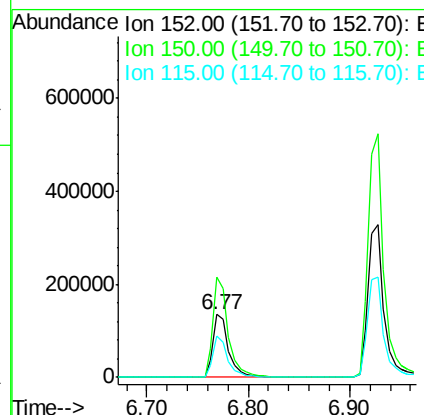
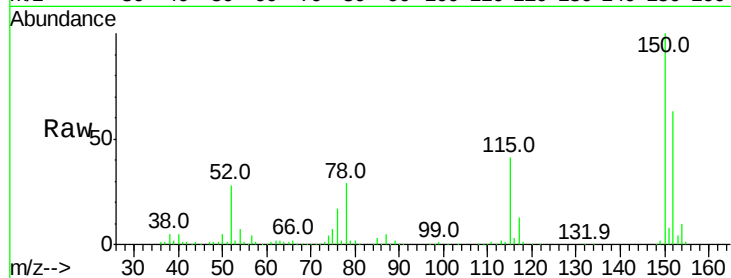
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.77 min Scan# 796
Delta R.T. -0.00 min
Lab File: BF101921.D
Acq: 5 Jan 2018 11:26

Instrument :
BNA_F
ClientSampleId :
RBR251678

Tot Ion	Ratio	Lower	Upper
152	100		
150	159.4	124.6	186.8
115	65.3	50.1	75.1

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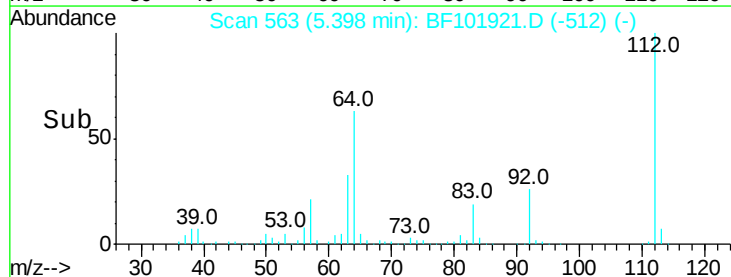
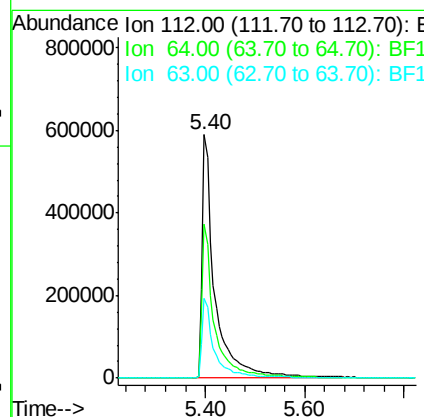
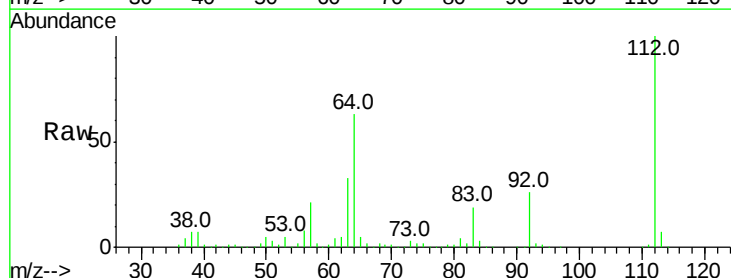
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#5

2-Fluorophenol
Concen: 107.025 ng
RT: 5.40 min Scan# 563
Delta R.T. -0.00 min
Lab File: BF101921.D
Acq: 5 Jan 2018 11:26

Tgt Ion	Ratio	Lower	Upper
112	100		
64	63.4	47.9	71.9
63	33.0	23.7	35.5





#7

Phenol-d6

Concen: 101.591 ng

RT: 6.43 min Scan# 738

Delta R.T. -0.00 min

Lab File: BF101921.D

Acq: 5 Jan 2018 11:26

Instrument :

BNA_F

ClientSampleId :

RBR251678

Tot Ion: 99 Resp: 1240963

Ion Ratio Lower Upper

99 100

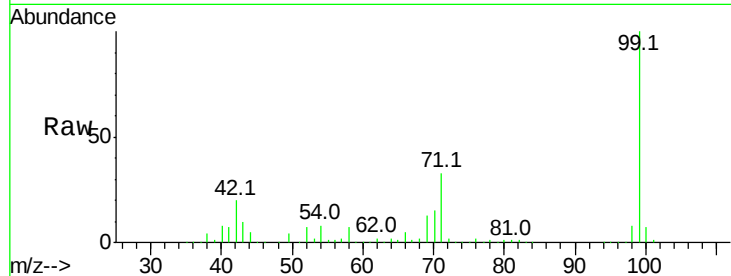
42 20.2 14.5 21.7

71 32.9 25.4 38.0

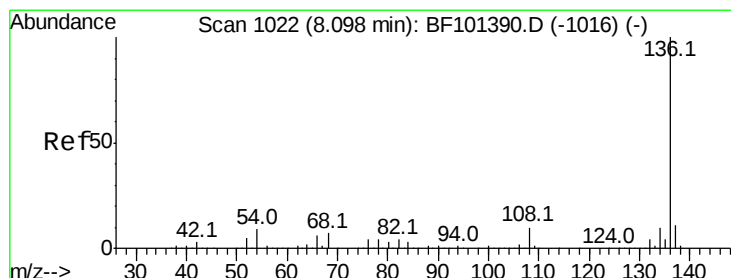
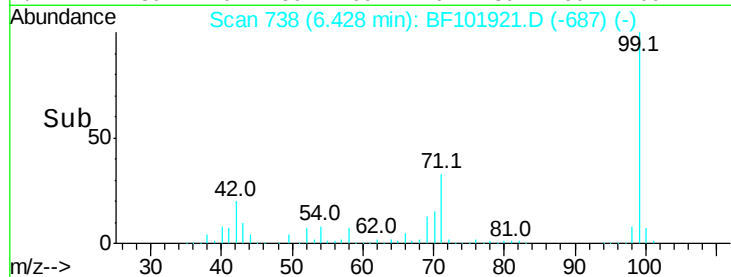
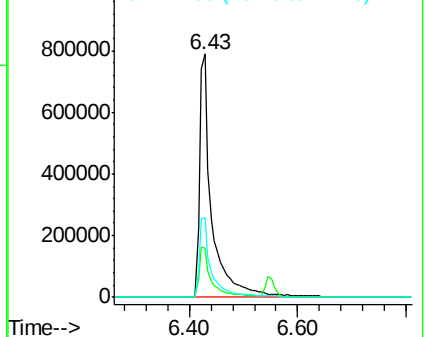
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Abundance Ion 99.00 (98.70 to 99.70): BF1
Ion 42.00 (41.70 to 42.70): BF1
Ion 71.00 (70.70 to 71.70): BF1



#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.05 min Scan# 1014

Delta R.T. -0.00 min

Lab File: BF101921.D

Acq: 5 Jan 2018 11:26

Tgt Ion: 136 Resp: 541007

Ion Ratio Lower Upper

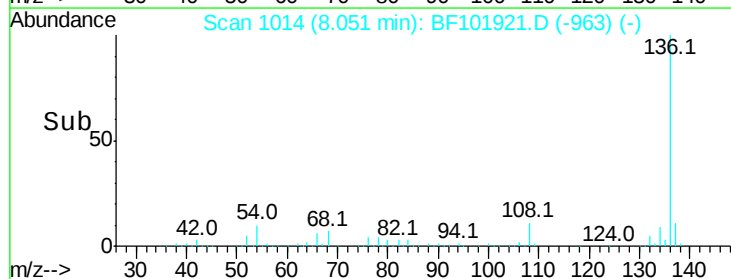
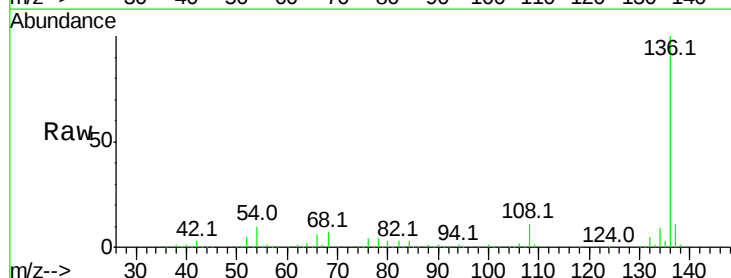
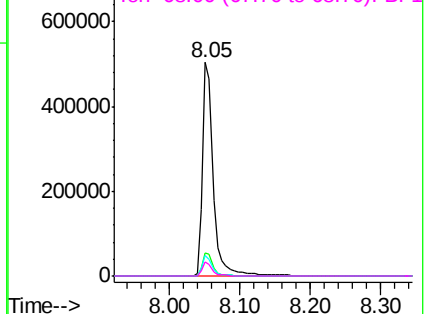
136 100

137 11.0 8.9 13.3

54 9.8 6.6 9.8

68 6.8 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





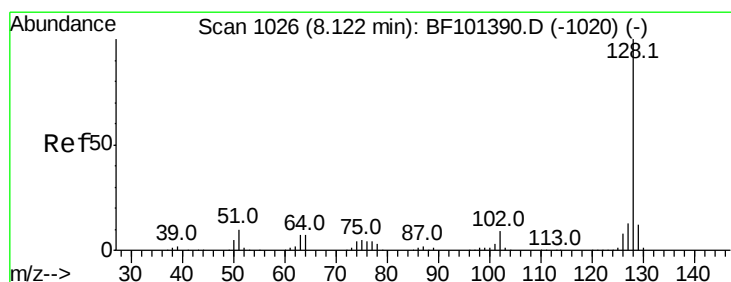
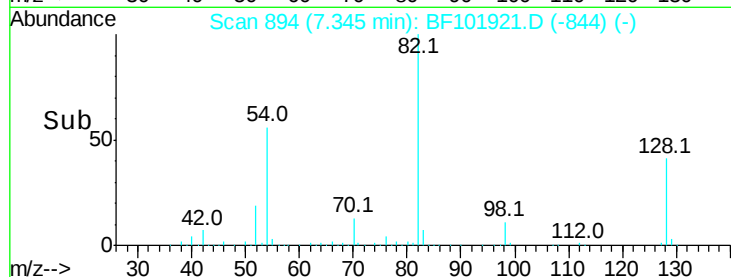
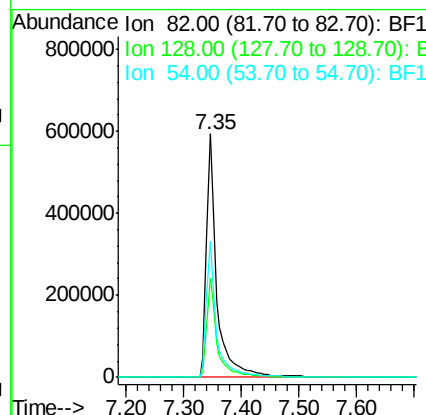
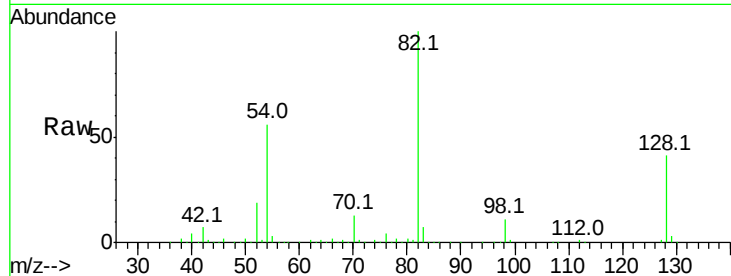
#23
Nitrobenzene-d5
Concen: 78.777 ng
RT: 7.35 min Scan# 894
Delta R.T. -0.01 min
Lab File: BF101921.D
Acq: 5 Jan 2018 11:26

Instrument :
BNA_F
ClientSampleId :
RBR251678

Tot Ion	Ratio	Resp	Lower	Upper
82	100	765623		
128	40.8	36.1	54.1	
54	55.8	41.4	62.2	

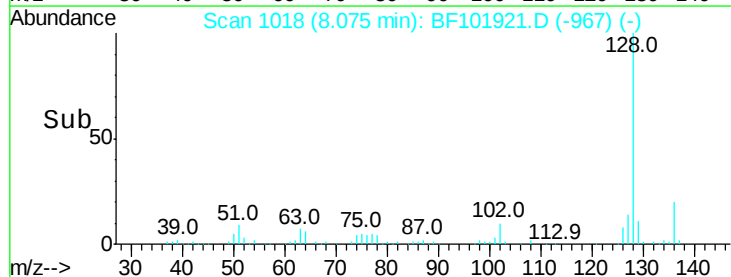
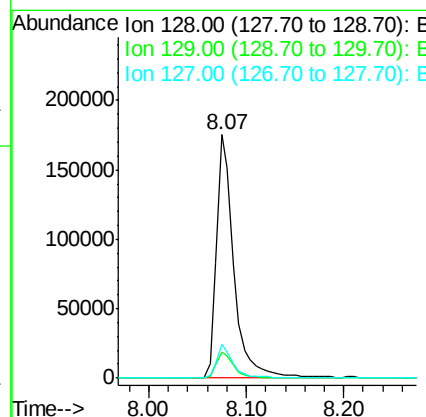
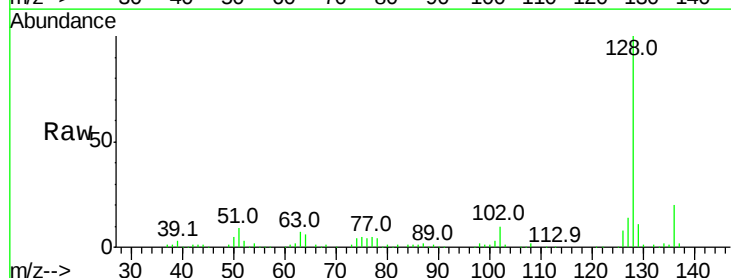
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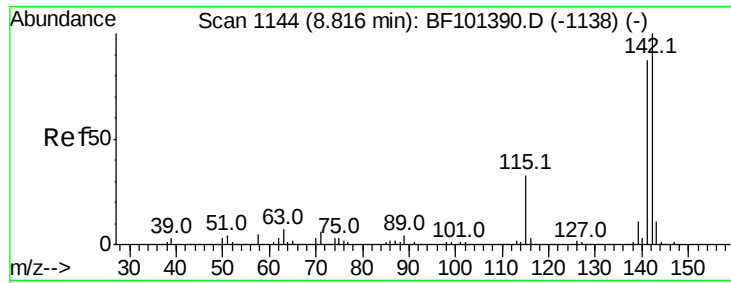
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#31
Naphthalene
Concen: 7.978 ng
RT: 8.07 min Scan# 1018
Delta R.T. -0.00 min
Lab File: BF101921.D
Acq: 5 Jan 2018 11:26

Tgt Ion	Ratio	Resp	Lower	Upper
128	100	217300		
129	10.9	8.8	13.2	
127	13.7	10.9	16.3	





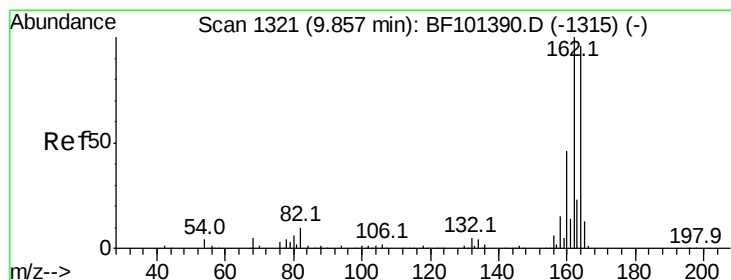
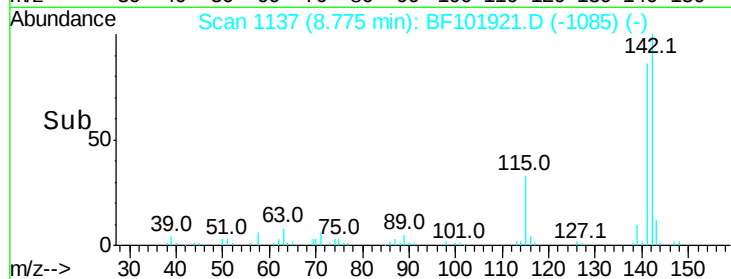
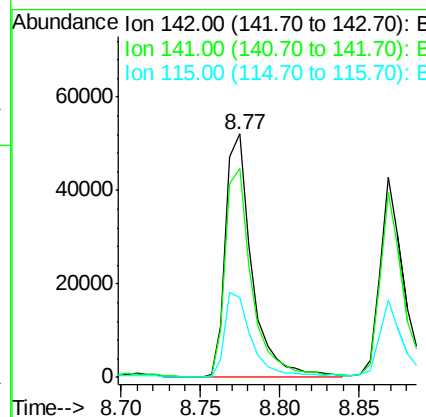
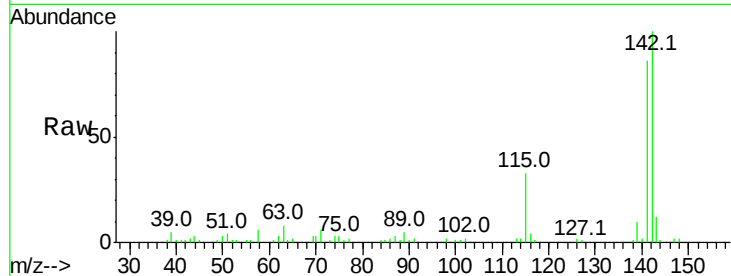
#37
2-Methylnaphthalene
Concen: 3.393 ng
RT: 8.77 min Scan# 1137
Delta R.T. 0.01 min
Lab File: BF101921.D
Acq: 5 Jan 2018 11:26

Instrument :
BNA_F
ClientSampleId :
RBR251678

Tot Ion	Ratio	Lower	Upper
142	100		
141	85.8	70.8	106.2
115	32.5	26.1	39.1

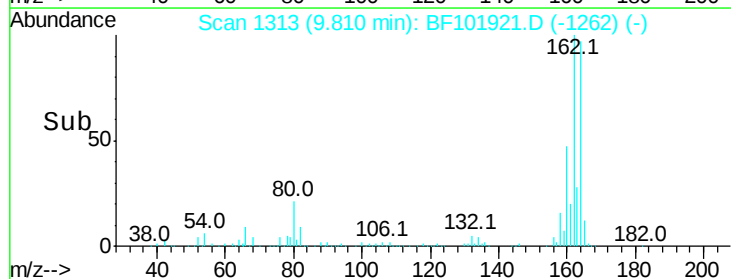
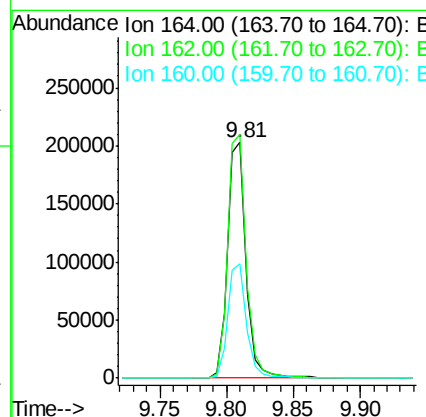
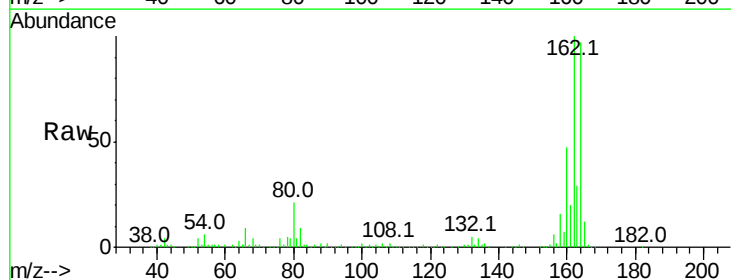
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#38
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.81 min Scan# 1313
Delta R.T. -0.00 min
Lab File: BF101921.D
Acq: 5 Jan 2018 11:26

Tgt Ion	Ratio	Lower	Upper
164	100		
162	103.4	86.1	129.1
160	48.3	38.3	57.5





#41

2,4,6-Tribromophenol

Concen: 72.958 ng

RT: 10.61 min Scan# 1449

Delta R.T. -0.00 min

Lab File: BF101921.D

Acq: 5 Jan 2018 11:26

Instrument :

BNA_F

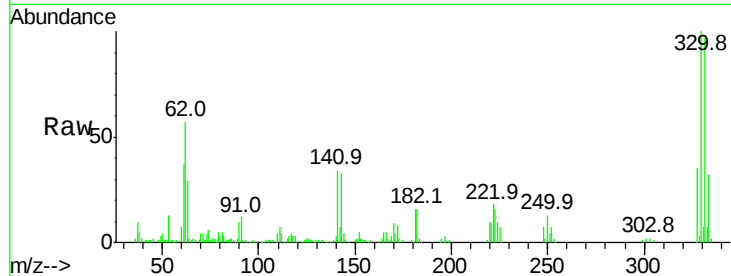
ClientSampleId :

RBR251678

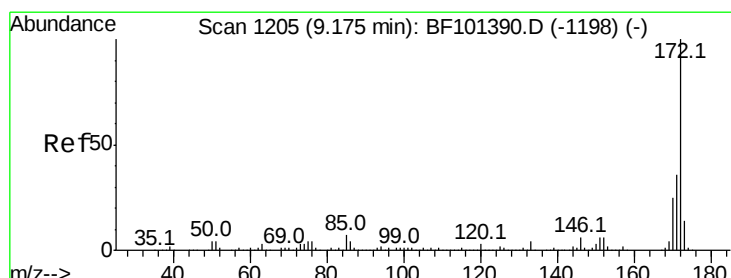
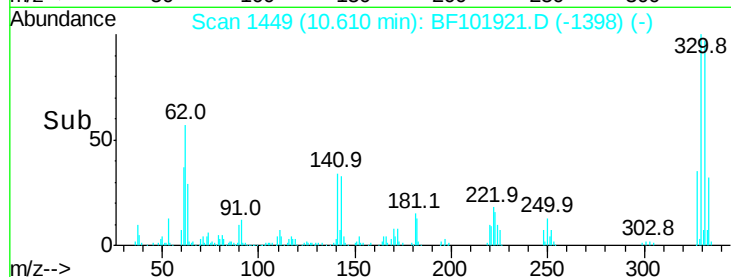
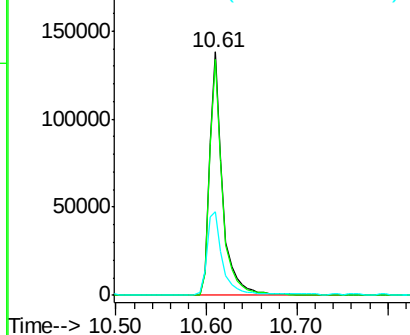
Tot Ion:	330	Resp:	139923
Ion Ratio	Lower	Upper	
330	100		
332	96.1	77.0	115.6
141	41.7	29.9	44.9

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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: 72.184 ng

RT: 9.13 min Scan# 1197

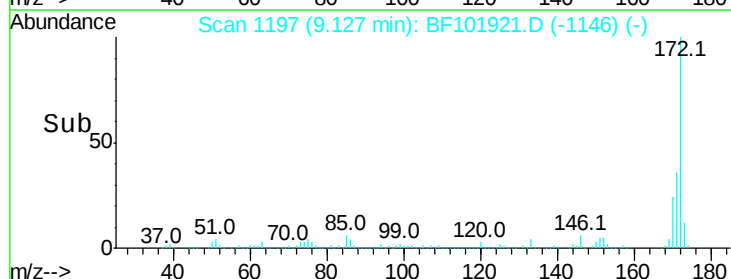
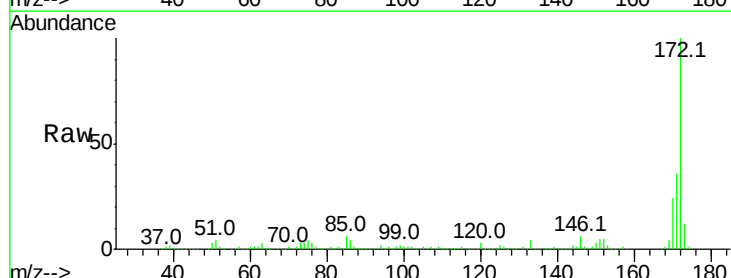
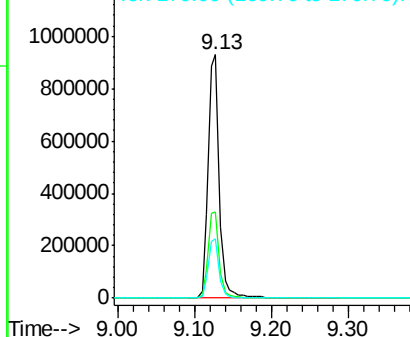
Delta R.T. -0.00 min

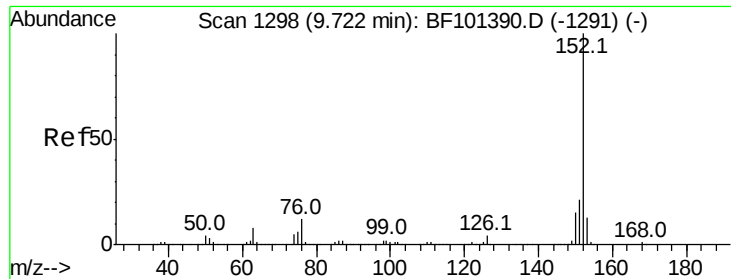
Lab File: BF101921.D

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Tgt Ion:	172	Resp:	926167
Ion Ratio	Lower	Upper	
172	100		
171	35.6	29.7	44.5
170	24.3	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





#48

Acenaphthylene

Concen: 5.790 ng

RT: 9.67 min Scan# 1290

Delta R.T. -0.00 min

Lab File: BF101921.D

Acq: 5 Jan 2018 11:26

Instrument :

BNA_F

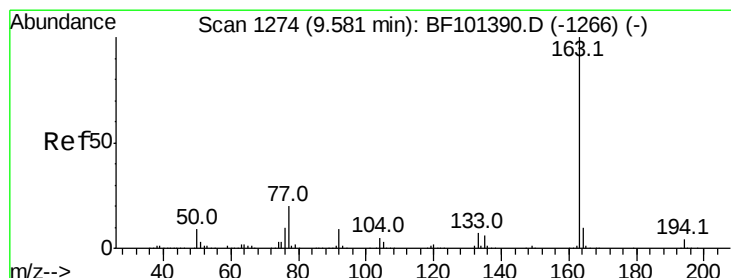
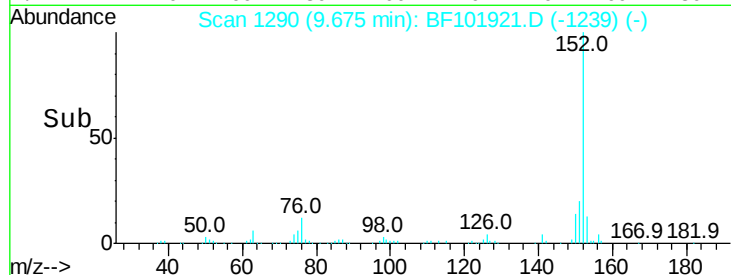
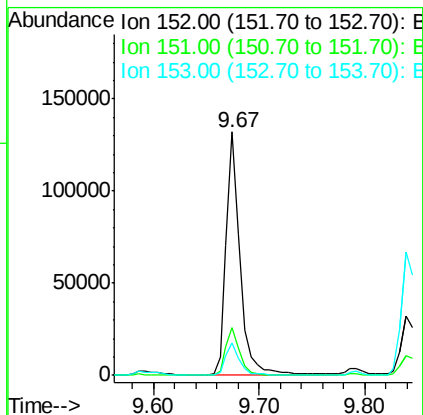
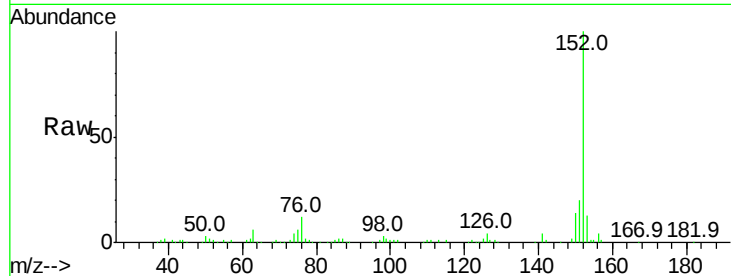
ClientSampleId :

RBR251678

Tot Ion	Ratio	Resp	Lower	Upper
152	100	123506		
151	19.8	16.3	24.5	
153	13.3	10.7	16.1	

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#49

Dimethylphthalate

Concen: 8.911 ng

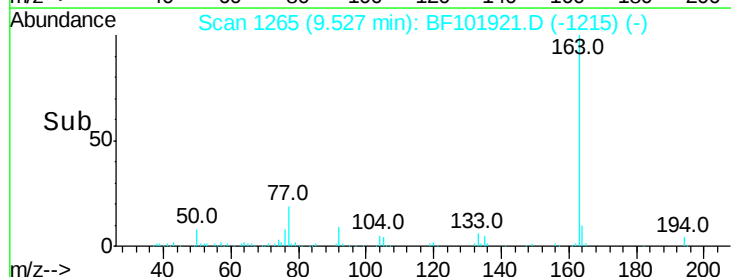
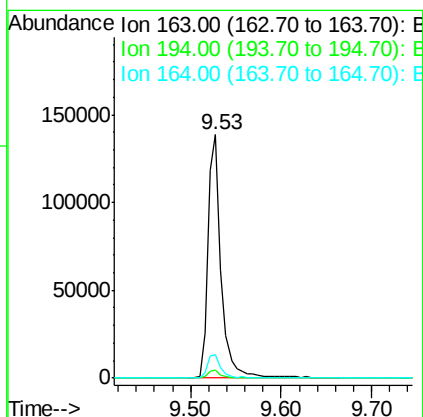
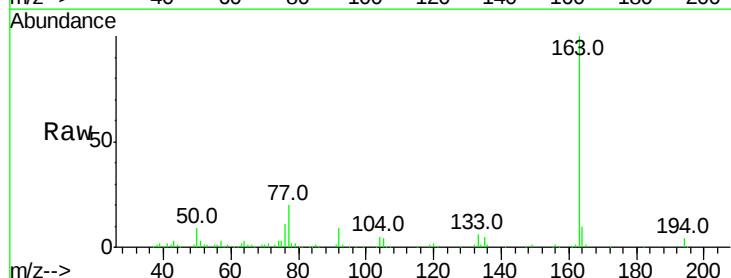
RT: 9.53 min Scan# 1265

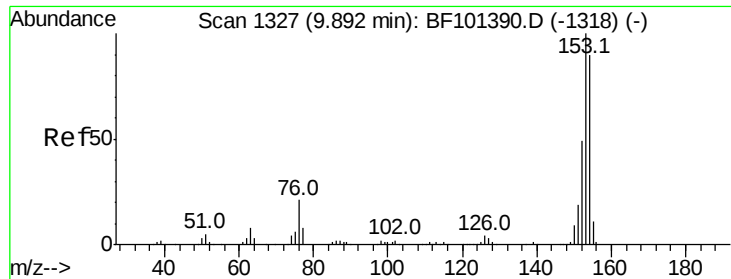
Delta R.T. -0.01 min

Lab File: BF101921.D

Acq: 5 Jan 2018 11:26

Tgt Ion	Ratio	Resp	Lower	Upper
163	100	142654		
194	3.6	2.7	4.1	
164	9.6	8.2	12.2	





#51

Acenaphthene

Concen: 4.241 ng

RT: 9.84 min Scan# 1318

Delta R.T. -0.01 min

Lab File: BF101921.D

Acq: 5 Jan 2018 11:26

Instrument :

BNA_F

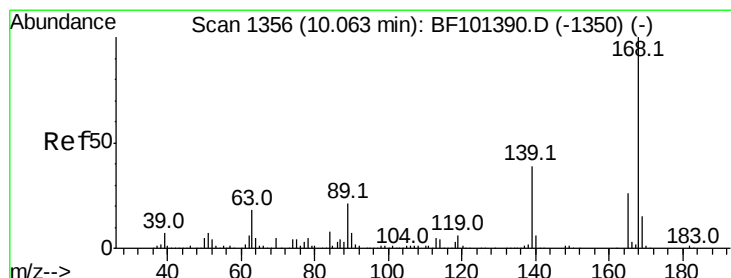
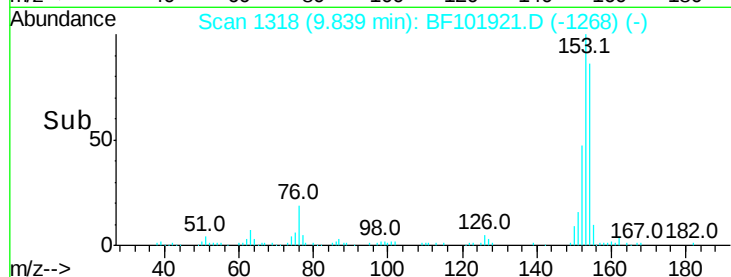
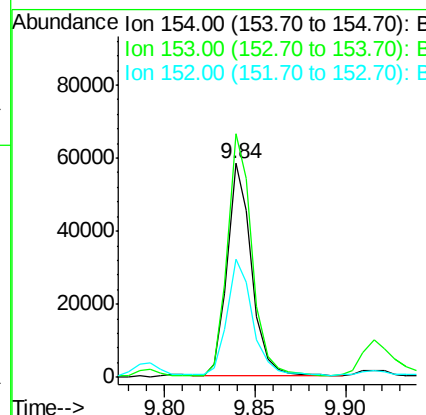
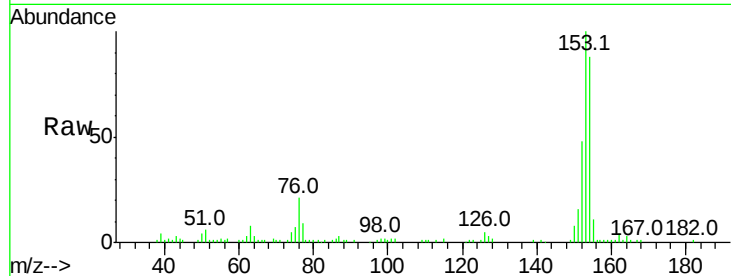
ClientSampleId :

RBR251678

Tot Ion:	154	Resp:	54354
Ion	Ratio	Lower	Upper
154	100		
153	113.8	91.2	136.8
152	55.0	43.8	65.8

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#54

Dibenzofuran

Concen: 7.242 ng

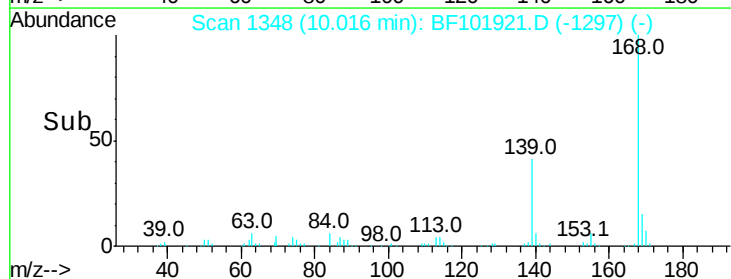
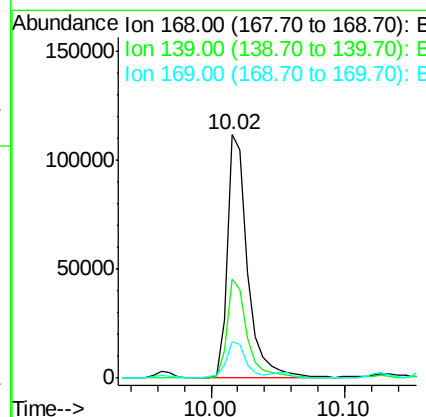
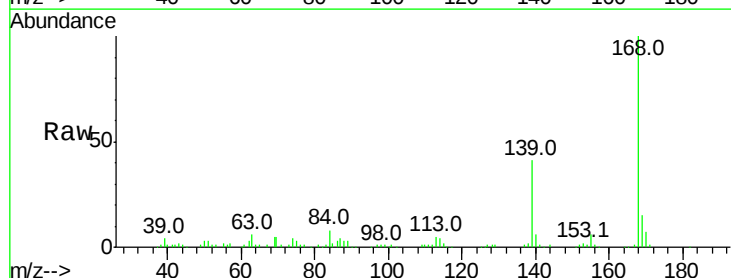
RT: 10.02 min Scan# 1348

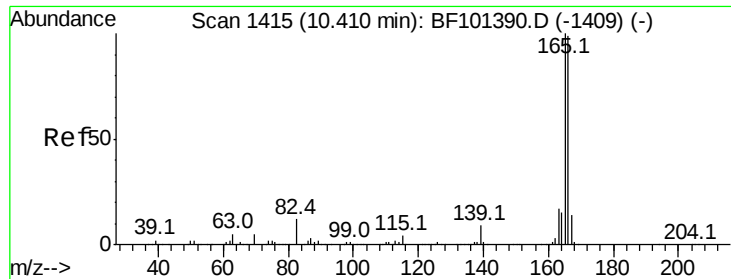
Delta R.T. -0.00 min

Lab File: BF101921.D

Acq: 5 Jan 2018 11:26

Tgt Ion:	168	Resp:	117951
Ion	Ratio	Lower	Upper
168	100		
139	40.5	30.1	45.1
169	14.6	10.9	16.3





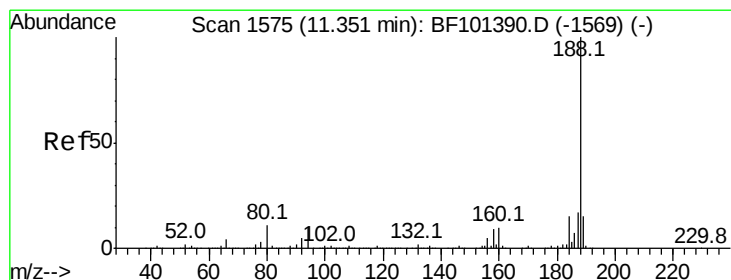
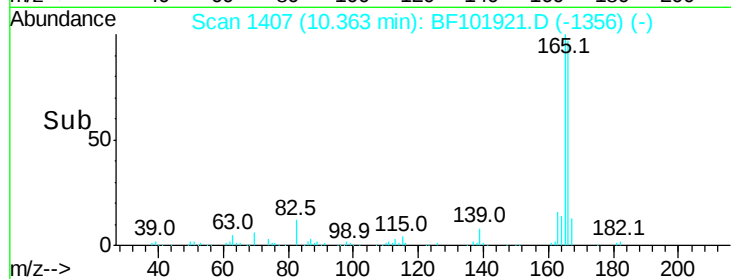
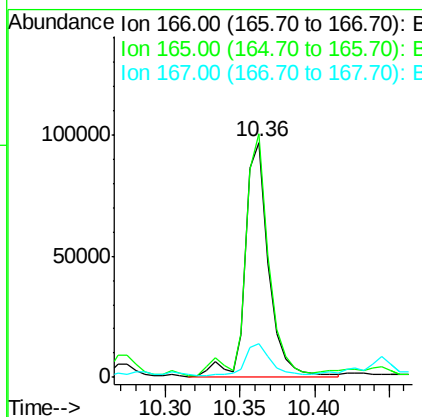
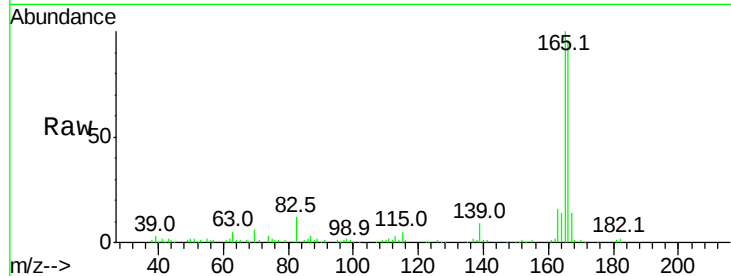
#57
Fluorene
 Concen: 7.559 ng
 RT: 10.36 min Scan# 1407
 Delta R.T. -0.00 min
 Lab File: BF101921.D
 Acq: 5 Jan 2018 11:26

Instrument :
 BNA_F
 ClientSampleId :
 RBR251678

Tot Ion	Ratio	Lower	Upper
166	100		
165	103.7	79.8	119.8
167	14.1	10.6	16.0

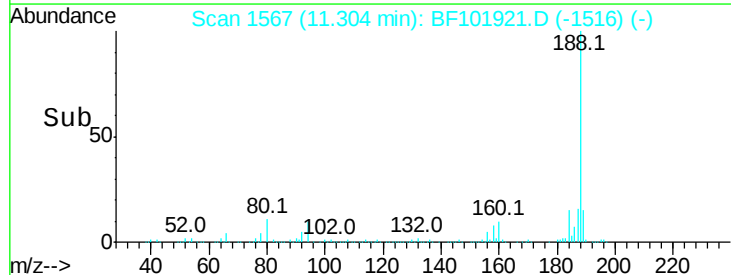
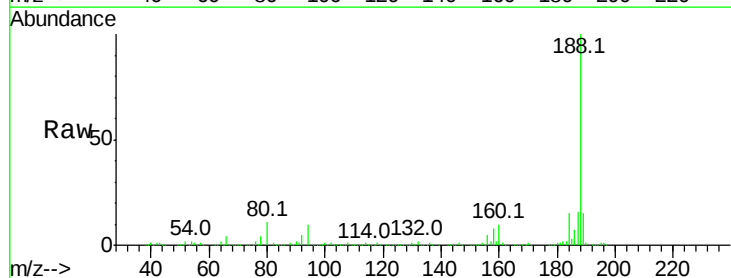
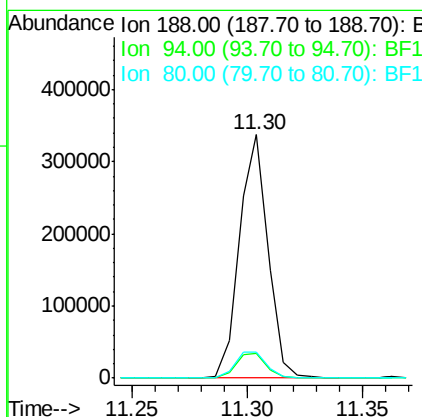
Manual Integrations
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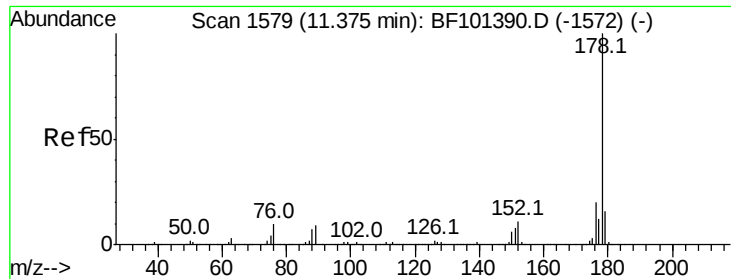
Sohil
 1/8/2018 4:21:38 PM



#63
Phenanthrene-d10
 Concen: 20.000 ng
 RT: 11.30 min Scan# 1567
 Delta R.T. -0.00 min
 Lab File: BF101921.D
 Acq: 5 Jan 2018 11:26

Tgt Ion	Ratio	Lower	Upper
188	100		
94	10.0	8.5	12.7
80	10.7	9.2	13.8





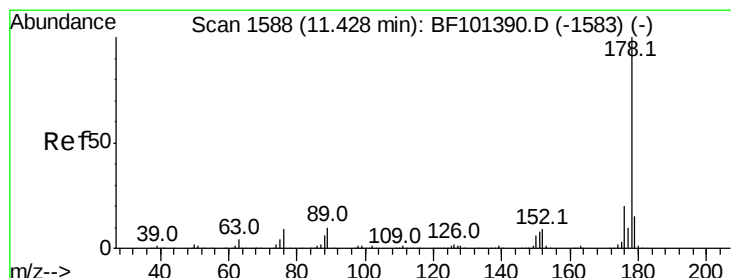
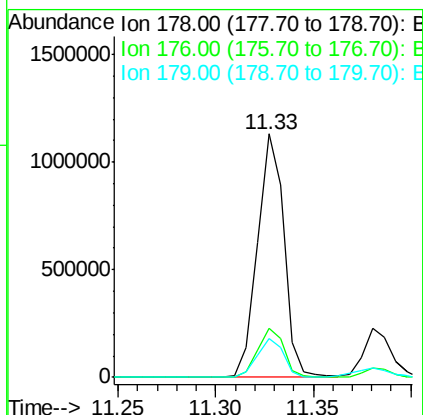
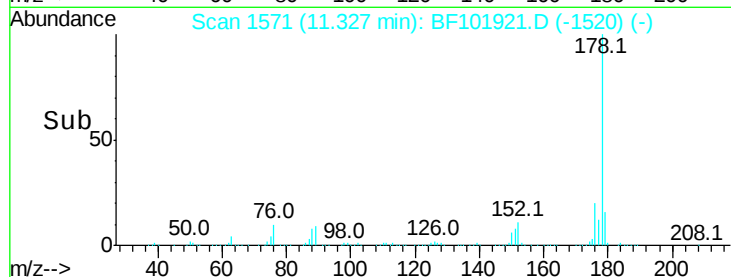
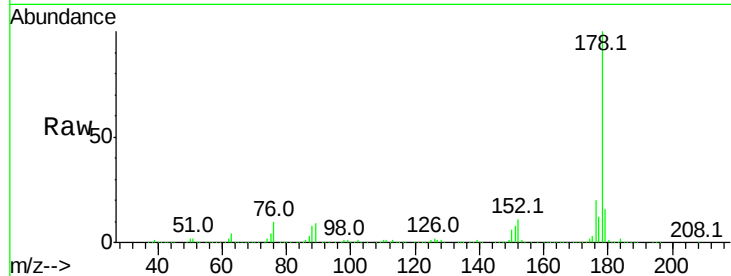
#70
Phenanthrene
Concen: 65.753 ng
RT: 11.33 min Scan# 1571
Delta R.T. -0.00 min
Lab File: BF101921.D
Acq: 5 Jan 2018 11:26

Instrument :
BNA_F
ClientSampleId :
RBR251678

Tot Ion:178 Resp: 1063355
Ion Ratio Lower Upper
178 100
176 20.1 15.8 23.8
179 16.2 13.0 19.6

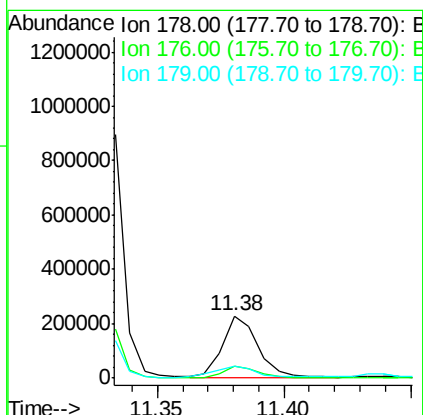
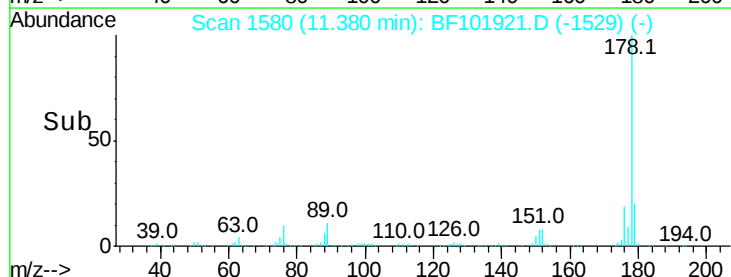
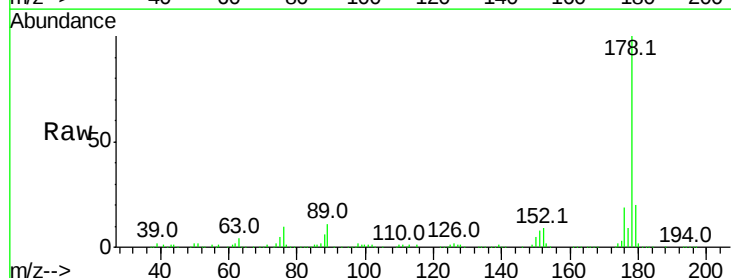
Manual Integrations
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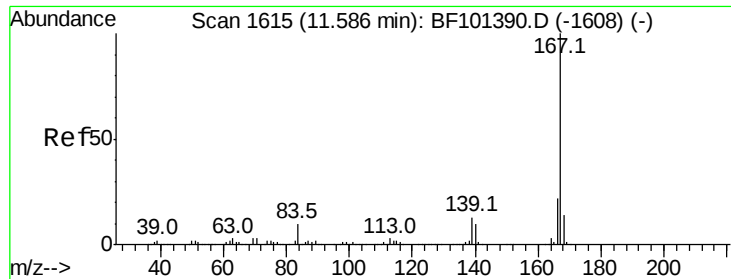
Sohil
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#71
Anthracene
Concen: 13.863 ng m
RT: 11.38 min Scan# 1580
Delta R.T. -0.00 min
Lab File: BF101921.D
Acq: 5 Jan 2018 11:26

Tgt Ion:178 Resp: 229002
Ion Ratio Lower Upper
178 100
176 18.7 15.4 23.2
179 19.7 12.6 19.0#





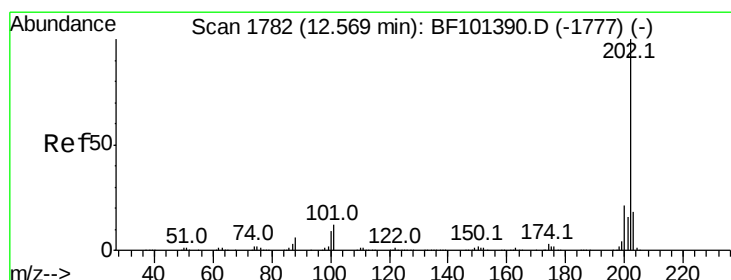
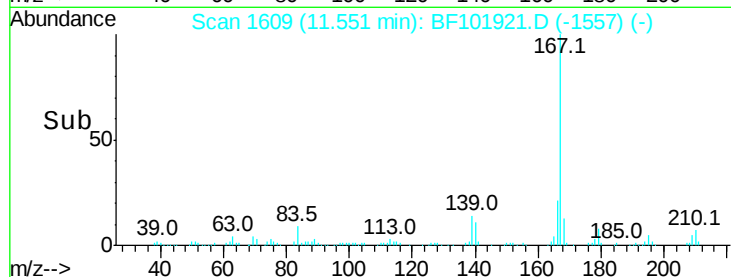
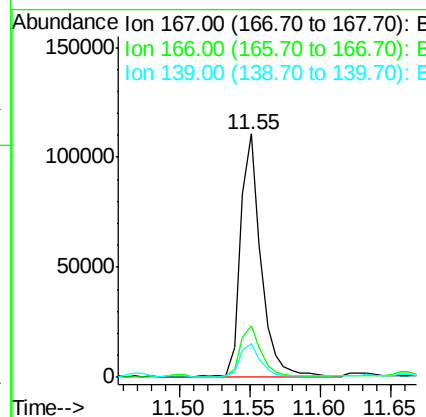
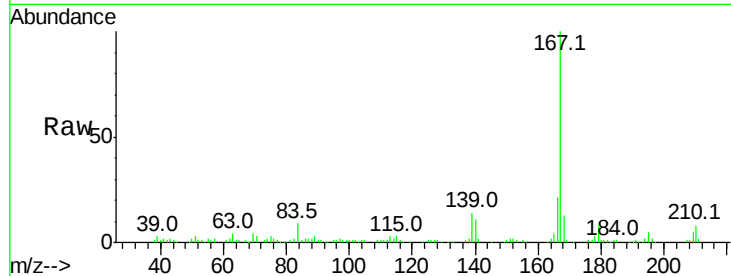
#72
 Carbazole
 Concen: 7.085 ng
 RT: 11.55 min Scan# 1609
 Delta R.T. 0.01 min
 Lab File: BF101921.D
 Acq: 5 Jan 2018 11:26

Instrument :
 BNA_F
 ClientSampleId :
 RBR251678

Tot Ion:	167	Resp:	109577
Ion Ratio		Lower	Upper
167	100		
166	21.3	17.6	26.4
139	13.8	10.9	16.3

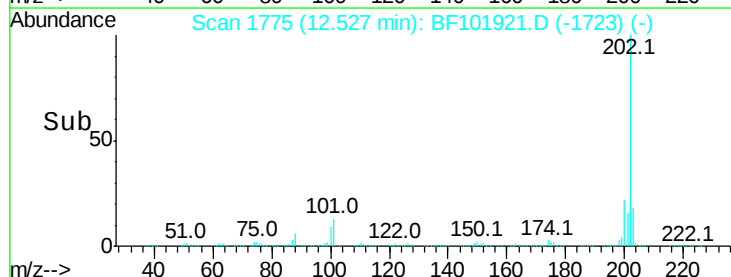
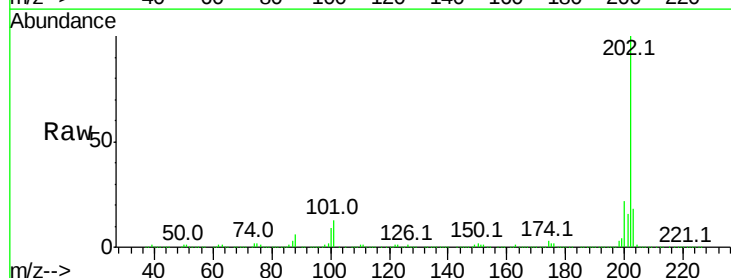
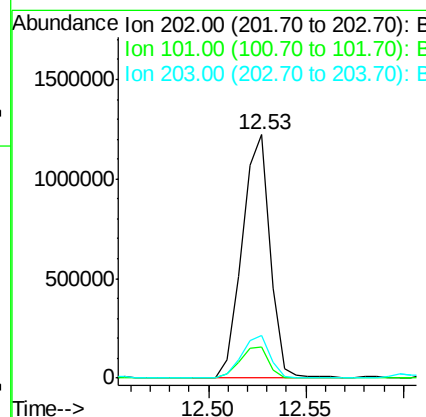
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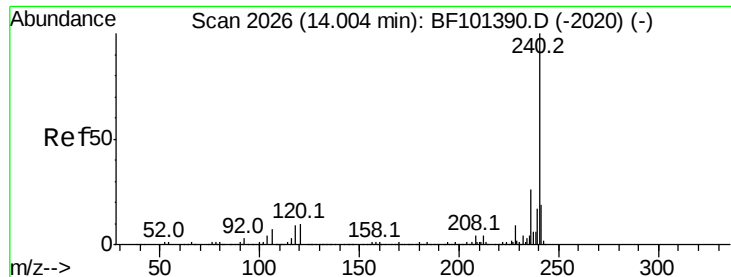
Sohil
 1/8/2018 4:21:38 PM



#74
 Fluoranthene
 Concen: 71.334 ng
 RT: 12.53 min Scan# 1775
 Delta R.T. 0.01 min
 Lab File: BF101921.D
 Acq: 5 Jan 2018 11:26

Tgt Ion:	202	Resp:	1210886
Ion Ratio		Lower	Upper
202	100		
101	13.0	0.0	34.1
203	17.7	0.0	38.1





#75

Chrysene-d12

Concen: 20.000 ng

RT: 13.96 min Scan# 2018

Delta R.T. -0.00 min

Lab File: BF101921.D

Acq: 5 Jan 2018 11:26

Instrument :

BNA_F

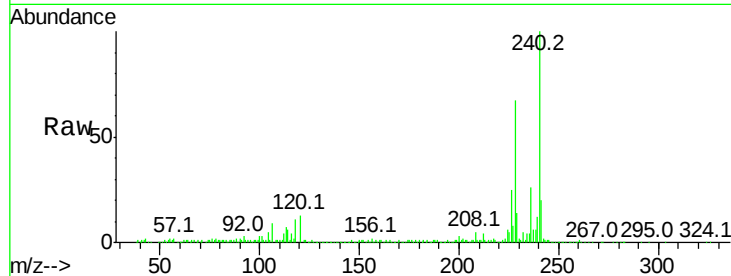
ClientSampleId :

RBR251678

Tot Ion	Ratio	Lower	Upper
240	100		
120	13.0	9.5	14.3
236	26.2	20.7	31.1

Manual Integrations
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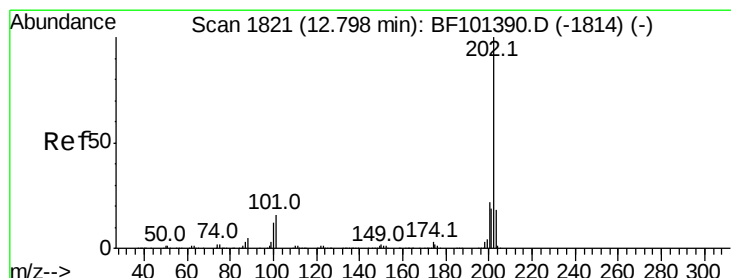
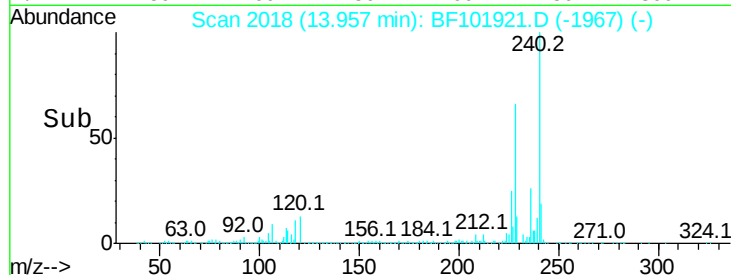
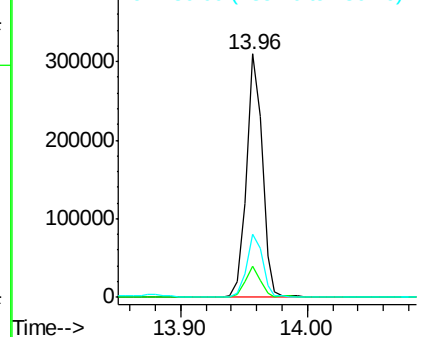


Abundance

Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E



#77

Pyrene

Concen: 56.744 ng

RT: 12.76 min Scan# 1814

Delta R.T. 0.01 min

Lab File: BF101921.D

Acq: 5 Jan 2018 11:26

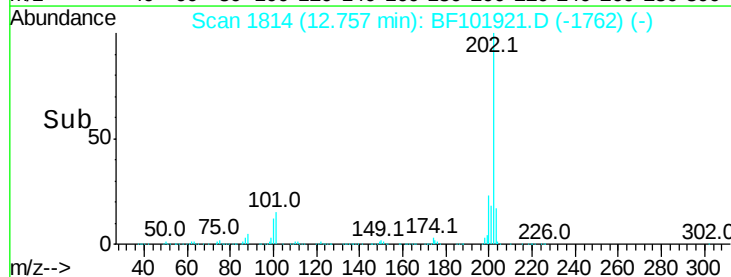
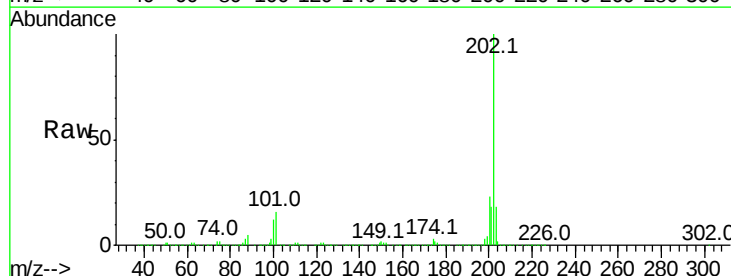
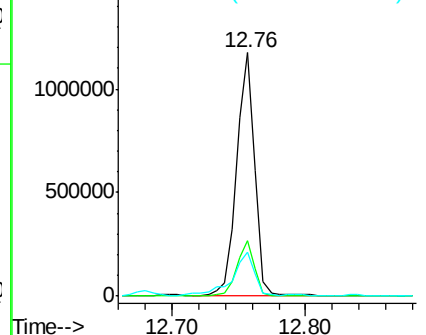
Tgt Ion	Ratio	Lower	Upper
202	100		
200	22.6	17.4	26.2
203	17.9	14.3	21.5

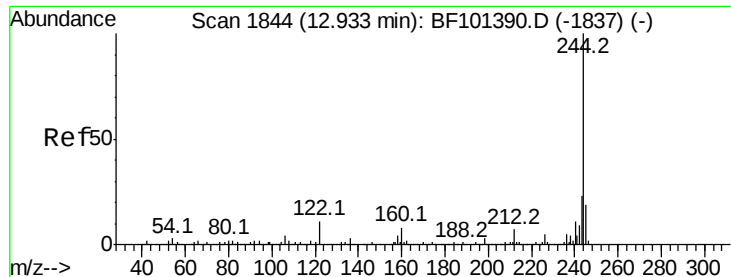
Abundance

Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#78

Terphenyl-d14

Concen: 61.873 ng

RT: 12.88 min Scan# 1835

Delta R.T. -0.00 min

Lab File: BF101921.D

Acq: 5 Jan 2018 11:26

Instrument :

BNA_F

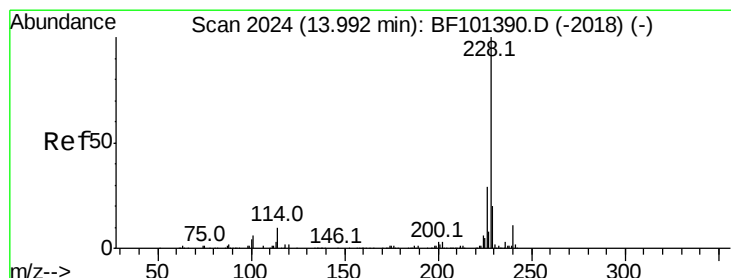
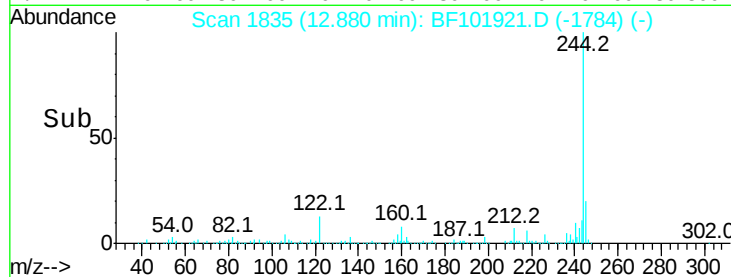
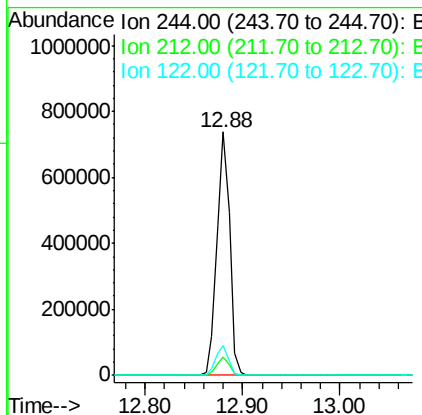
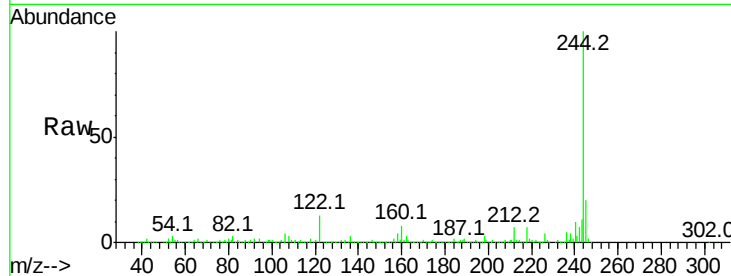
ClientSampleId :

RBR251678

Tot Ion:	244	Resp:	673958
Ion Ratio	Lower	Upper	
244	100		
212	7.5	5.4	8.0
122	12.5	11.0	16.4

Manual Integrations
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#80

Benzo(a)anthracene

Concen: 35.417 ng

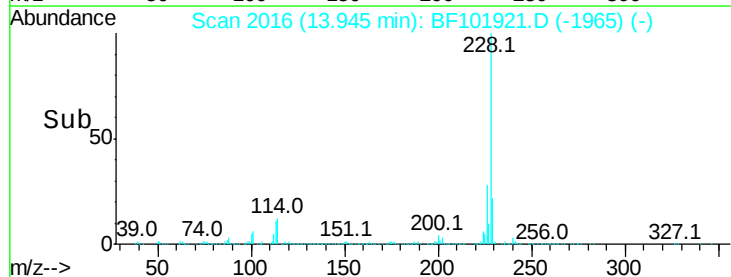
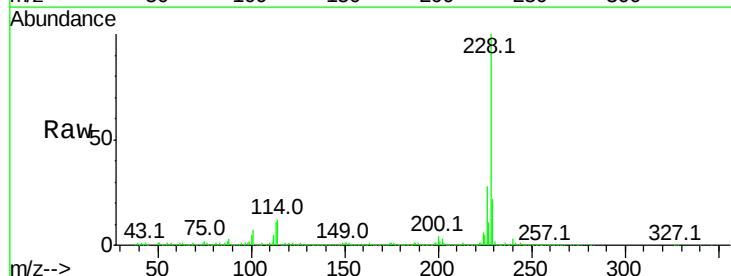
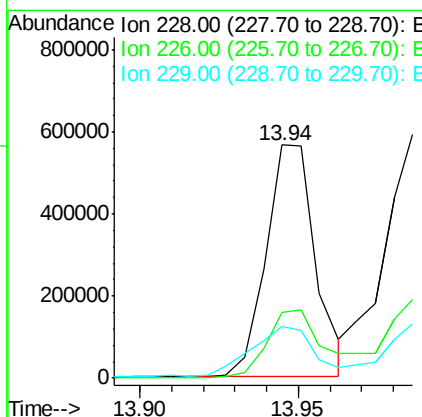
RT: 13.94 min Scan# 2016

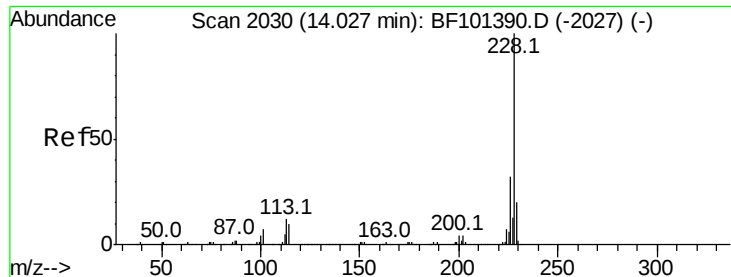
Delta R.T. -0.00 min

Lab File: BF101921.D

Acq: 5 Jan 2018 11:26

Tgt Ion:	228	Resp:	614107
Ion Ratio	Lower	Upper	
228	100		
226	28.4	22.6	33.8
229	22.3	15.8	23.6





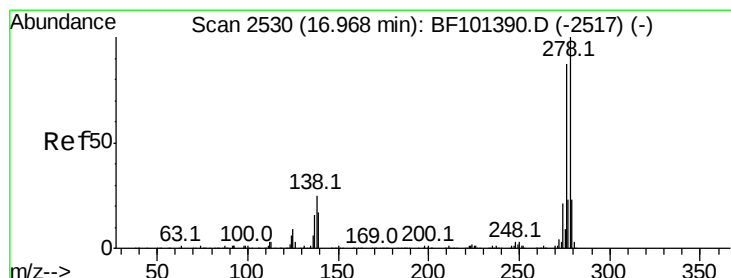
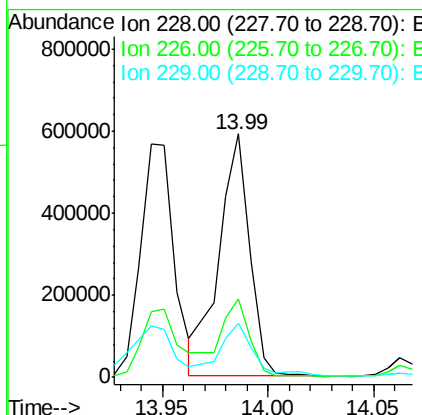
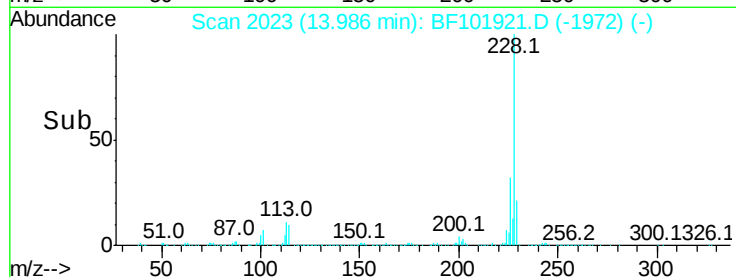
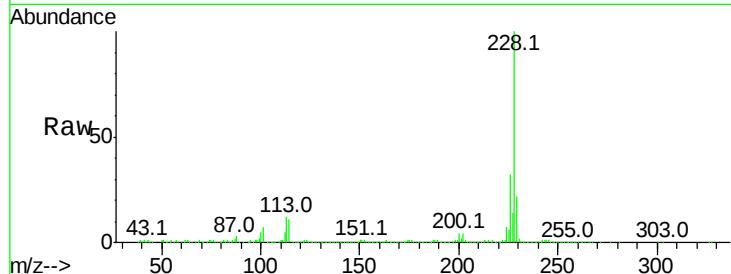
#82
Chrysene
Concen: 36.346 ng
RT: 13.99 min Scan# 2023
Delta R.T. -0.00 min
Lab File: BF101921.D
Acq: 5 Jan 2018 11:26

Instrument :
BNA_F
ClientSampleId :
RBR251678

Tot Ion	Ratio	Lower	Upper
228	100		
226	32.4	25.0	37.6
229	22.1	16.2	24.4

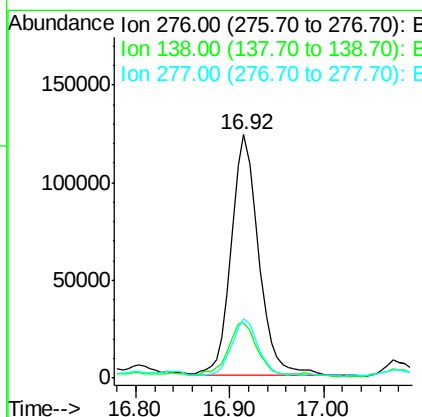
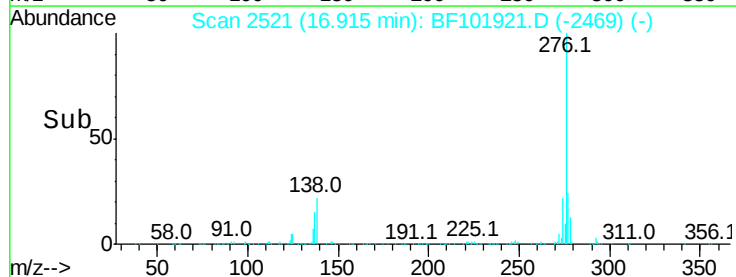
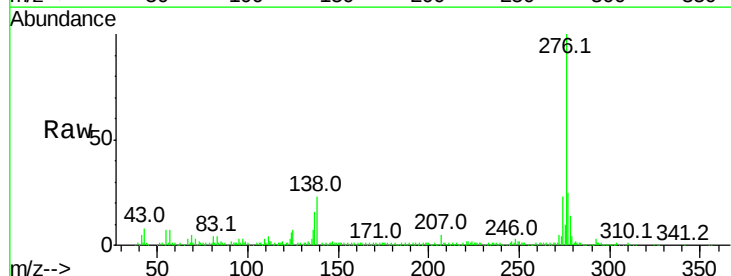
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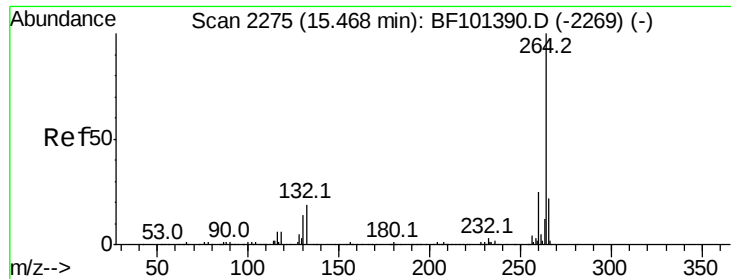
Sohil
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#85
Indeno(1,2,3-cd)pyrene
Concen: 17.335 ng
RT: 16.92 min Scan# 2521
Delta R.T. 0.01 min
Lab File: BF101921.D
Acq: 5 Jan 2018 11:26

Tgt Ion	Ratio	Lower	Upper
276	100		
138	22.5	25.0	37.6#
277	23.4	20.1	30.1





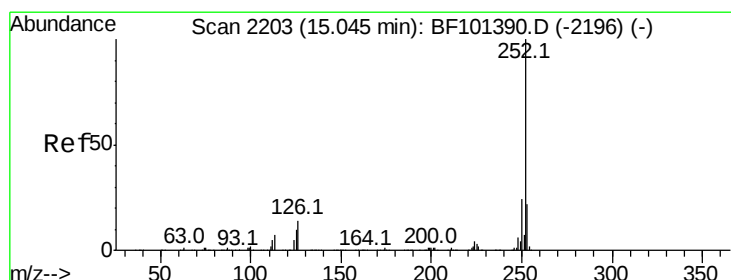
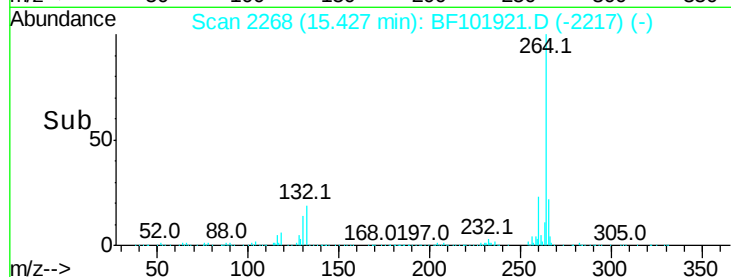
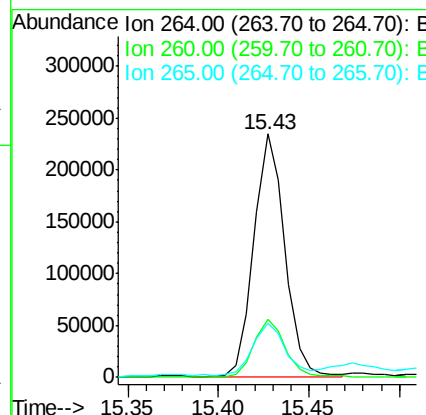
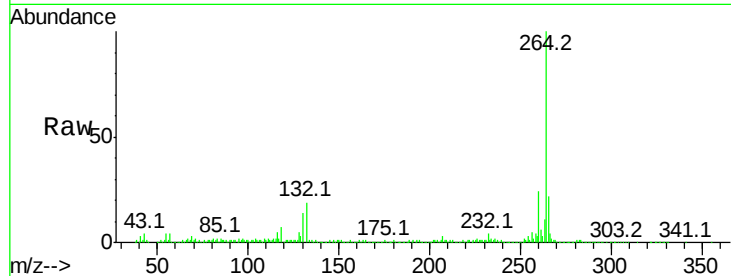
#86
Pervlene-d12
Concen: 20.000 ng
RT: 15.43 min Scan# 2268
Delta R.T. -0.00 min
Lab File: BF101921.D
Acq: 5 Jan 2018 11:26

Instrument :
BNA_F
ClientSampleId :
RBR251678

Tot Ion	Ratio	Lower	Upper
264	100		
260	23.7	19.2	28.8
265	22.4	17.5	26.3

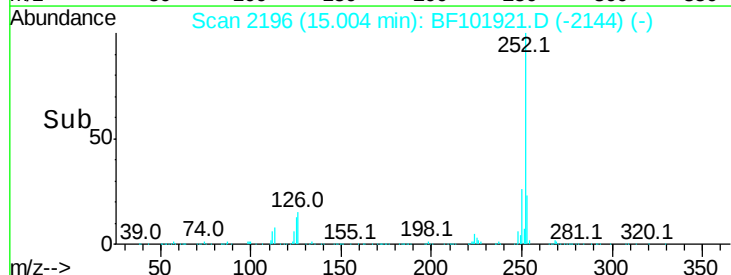
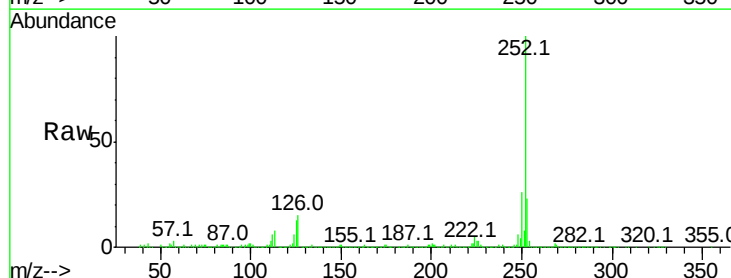
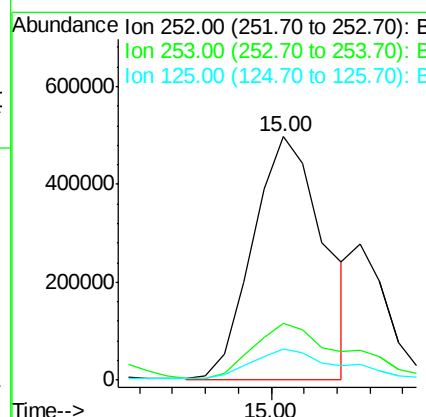
Manual Integrations
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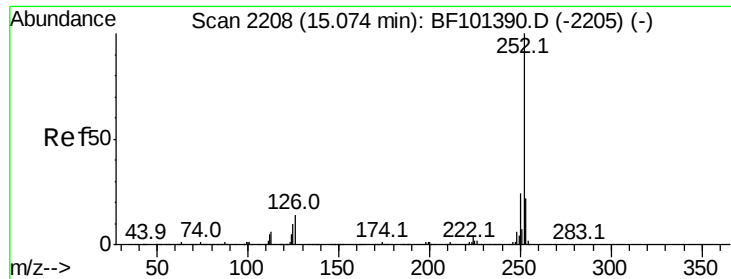
Sohil
1/8/2018 4:21:38 PM



#87
Benzo(b)fluoranthene
Concen: 44.184 ng m
RT: 15.00 min Scan# 2196
Delta R.T. 0.01 min
Lab File: BF101921.D
Acq: 5 Jan 2018 11:26

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.4	17.0	25.6
125	13.0	9.0	13.6





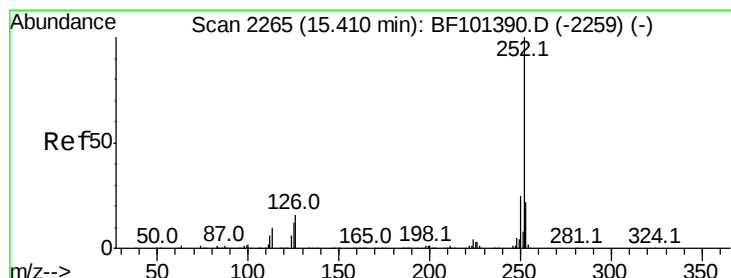
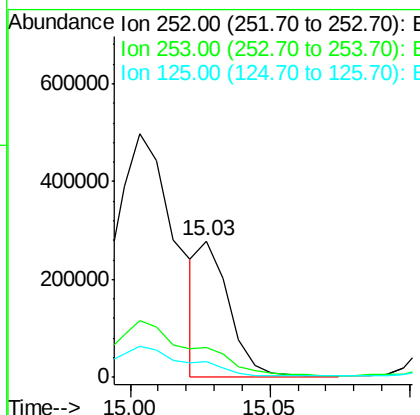
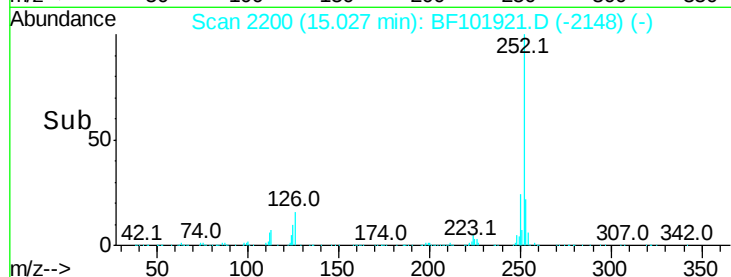
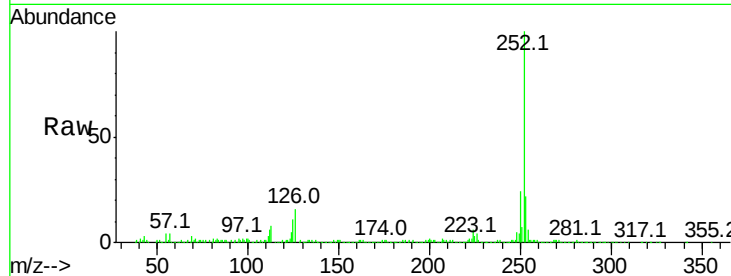
#88
Benzo(k)fluoranthene
Concen: 13.078 ng
RT: 15.03 min Scan# 2200
Delta R.T. 0.01 min
Lab File: BF101921.D
Acq: 5 Jan 2018 11:26

Instrument :
BNA_F
ClientSampleId :
RBR251678

Tot Ion	Ratio	Lower	Upper
252	100		
253	22.3	17.9	26.9
125	11.2	10.2	15.2

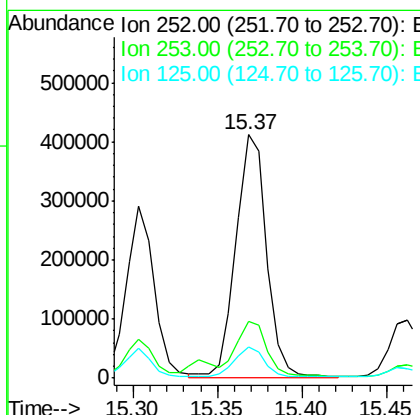
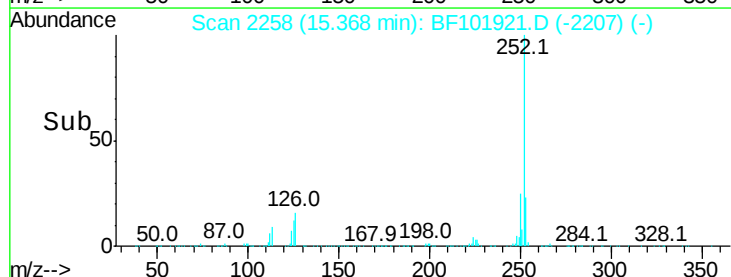
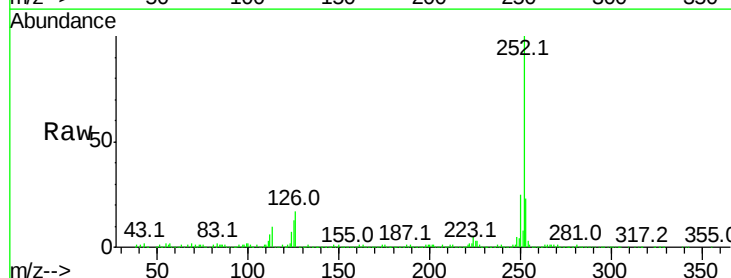
Manual Integrations
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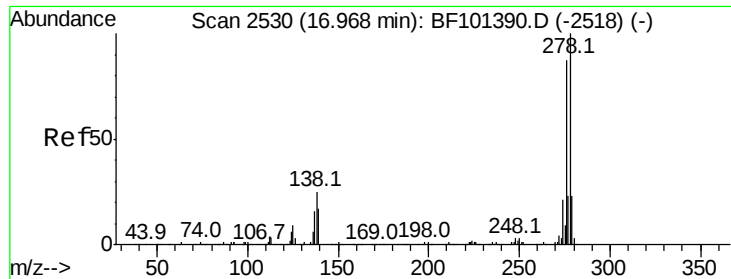
Sohil
1/8/2018 4:21:38 PM



#89
Benzo(a)pyrene
Concen: 33.305 ng
RT: 15.37 min Scan# 2258
Delta R.T. -0.00 min
Lab File: BF101921.D
Acq: 5 Jan 2018 11:26

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.4	17.1	25.7
125	12.6	9.8	14.6





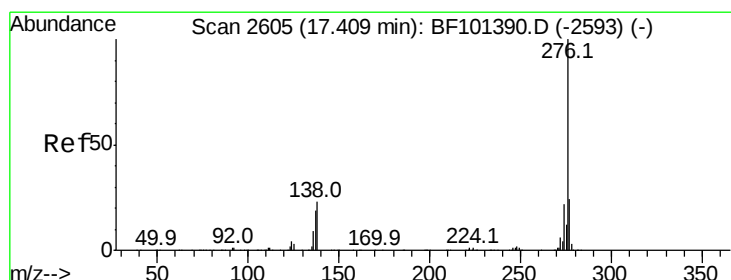
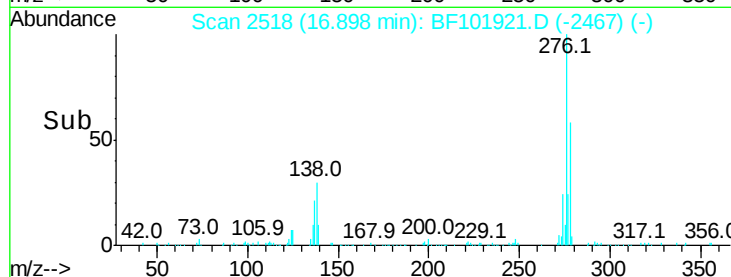
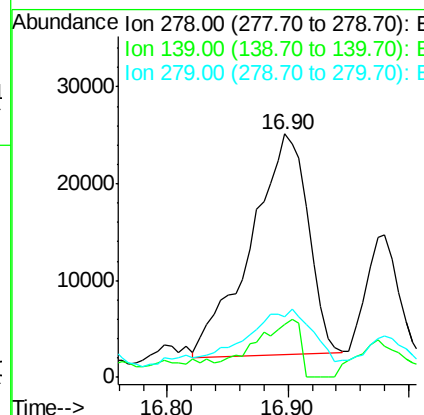
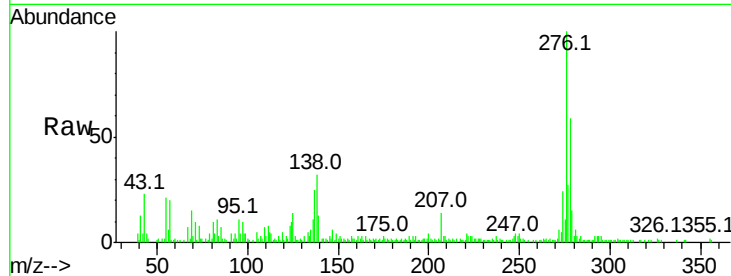
#90
Dibenzo(a,h)anthracene
Concen: 5.610 ng
RT: 16.90 min Scan# 2518
Delta R.T. -0.00 min
Lab File: BF101921.D
Acq: 5 Jan 2018 11:26

Instrument :
BNA_F
ClientSampleId :
RBR251678

Tot Ion	Ratio	Lower	Upper
278	100		
139	21.5	15.9	23.9
279	25.1	19.0	28.4

Manual Integrations
APPROVED

Sohil
1/8/2018 4:21:38 PM



#91
Benzo(g,h,i)perylene
Concen: 15.926 ng
RT: 17.37 min Scan# 2598
Delta R.T. 0.01 min
Lab File: BF101921.D
Acq: 5 Jan 2018 11:26

Tgt Ion	Ratio	Lower	Upper
276	100		
277	23.9	17.9	26.9
138	25.2	21.8	32.8

