

Data Path : Z:\HPCHEM1\BNA F\DATA\BF120517\
 Data File : BF101141.D
 Acq On : 5 Dec 2017 23:45
 Operator : SJ/JU
 Sample : I6696-03DL 50X
 Misc :
 ALS Vial : 28 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 CS-TP102-B(2+)DL

Manual Integrations
 APPROVED

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 12/6/2017 5:12:38 PM

Quant Time: Dec 06 03:30:18 2017
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF113017.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Dec 04 13:07:49 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.85	152	48688	20.00	ng	0.00
21) Naphthalene-d8	8.13	136	192038	20.00	ng	0.00
38) Acenaphthene-d10	9.89	164	86000	20.00	ng	0.00
63) Phenanthrene-d10	11.37	188	152844	20.00	ng	0.00
75) Chrysene-d12	14.02	240	92706	20.00	ng	0.00
86) Perylene-d12	15.49	264	106971	20.00	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.47	112	5453	1.85	ng	0.00
7) Phenol-d6	6.48	99	6541	1.83	ng	0.00
23) Nitrobenzene-d5	7.41	82	3938	1.22	ng	0.00
41) 2,4,6-Tribromophenol	10.68	330	1204	1.17	ng	0.00
44) 2-Fluorobiphenyl	9.20	172	9339	1.49	ng	-0.01
78) Terphenyl-d14	12.95	244	7348	1.73	ng	-0.01
Target Compounds						Qvalue
31) Naphthalene	8.15	128	529035	55.896	ng	99
37) 2-Methylnaphthalene	8.84	142	96404	14.990	ng	98
45) 1,1'-Biphenyl	9.30	154	37138	4.713	ng	97
48) Acenaphthylene	9.75	152	25802	2.806	ng	99
51) Acenaphthene	9.92	154	130753	23.745	ng	99
57) Fluorene	10.43	166	66911	10.373	ng	97
70) Phenanthrene	11.40	178	389225	46.242	ng	98
71) Anthracene	11.45	178	74361	8.729	ng	97
74) Fluoranthene	12.59	202	160668	17.220	ng	96
77) Pyrene	12.82	202	206241	32.240	ng	98
80) Benzo(a)anthracene	14.00	228	49397m	8.439	ng	
82) Chrysene	14.04	228	37011	6.808	ng	98
85) Indeno(1,2,3-cd)pyrene	16.97	276	21221m	4.391	ng	
87) Benzo(b)fluoranthene	15.06	252	37655m	5.877	ng	
88) Benzo(k)fluoranthene	15.07	252	16395m	2.597	ng	
89) Benzo(a)pyrene	15.43	252	50404	8.653	ng	95
91) Benzo(a,h,i)perylene	17.42	276	21600	4.463	ng	# 87

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

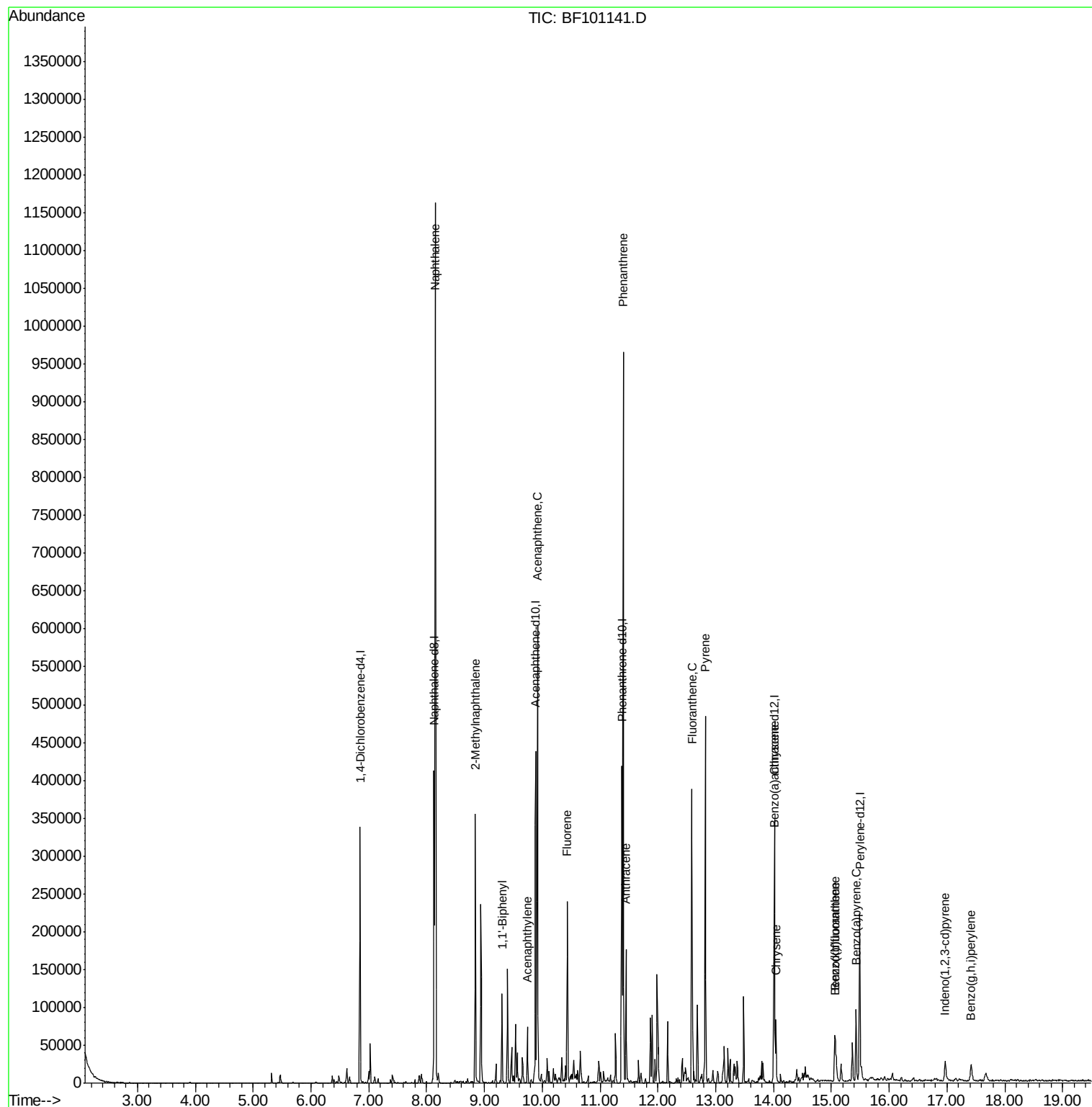
Data Path : Z:\HPCHEM1\BNA F\DATA\BF120517\
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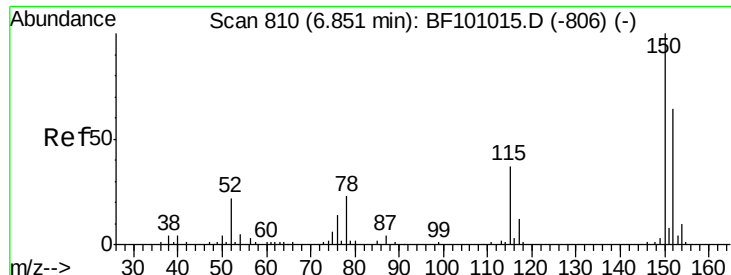
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#1

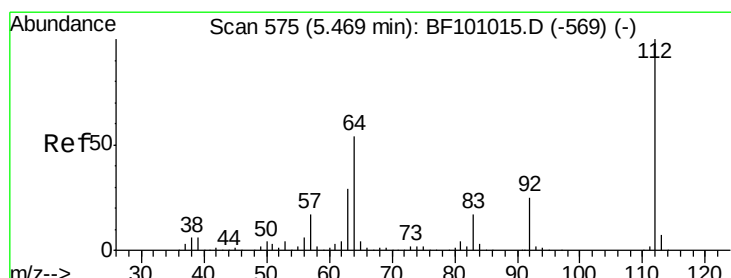
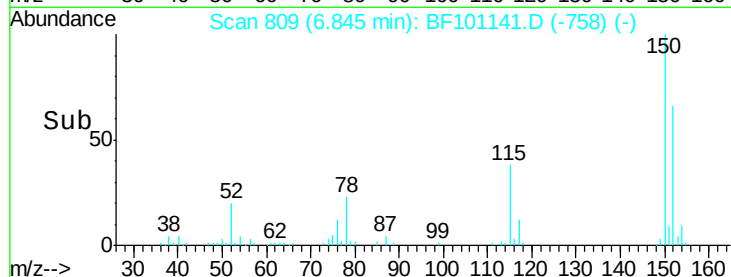
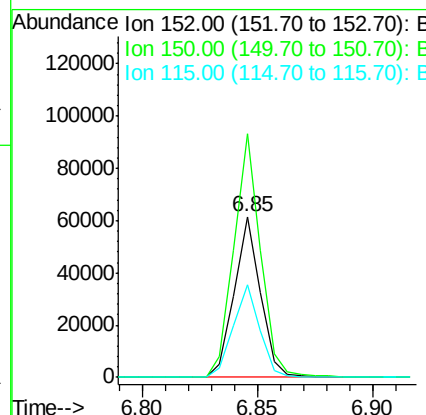
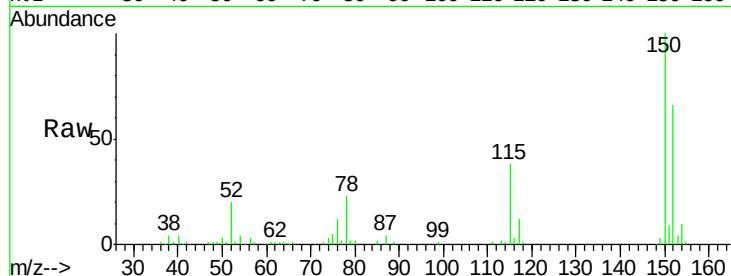
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.85 min Scan# 809
Delta R.T. 0.00 min
Lab File: BF101141.D
Acq: 5 Dec 2017 23:45

Instrument :
BNA_F
ClientSampleId :
CS-TP102-B(2+)DL

Tot Ion	Ratio	Lower	Upper
152	100		
150	151.6	124.6	186.8
115	57.3	50.1	75.1

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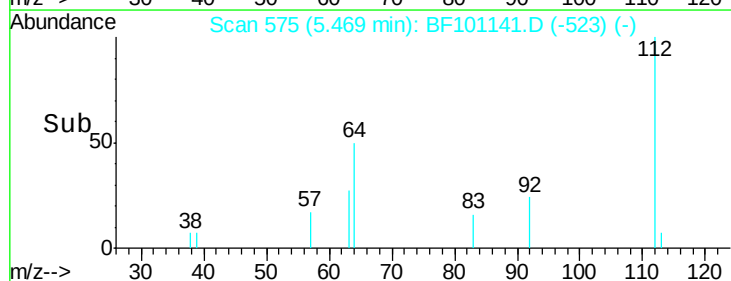
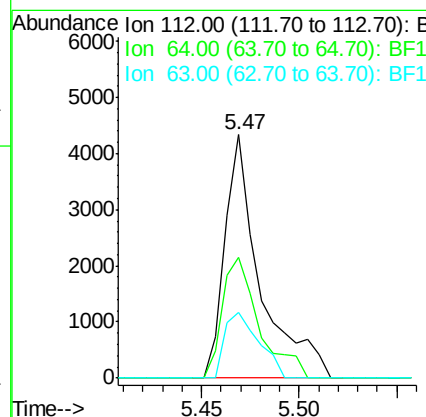
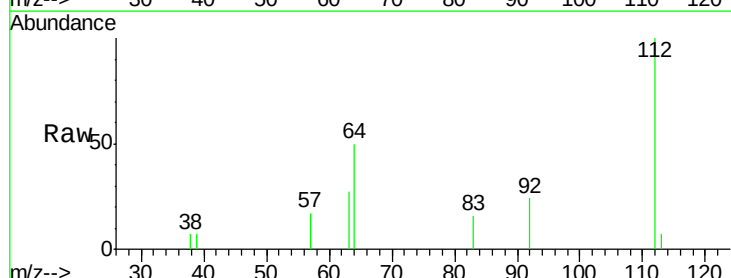
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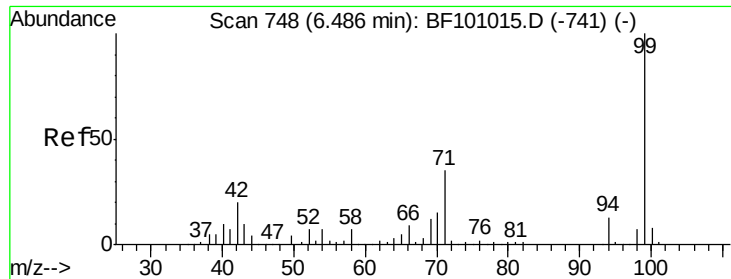


#5

2-Fluorophenol
Concen: 1.851 ng
RT: 5.47 min Scan# 575
Delta R.T. 0.01 min
Lab File: BF101141.D
Acq: 5 Dec 2017 23:45

Tgt Ion	Ratio	Lower	Upper
112	100		
64	49.8	47.9	71.9
63	27.1	23.7	35.5





#7

Phenol-d6

Concen: 1.829 ng

RT: 6.48 min Scan# 747

Delta R.T. 0.00 min

Lab File: BF101141.D

Acq: 5 Dec 2017 23:45

Instrument :

BNA_F

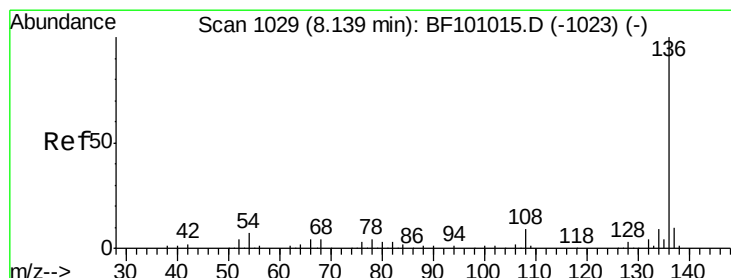
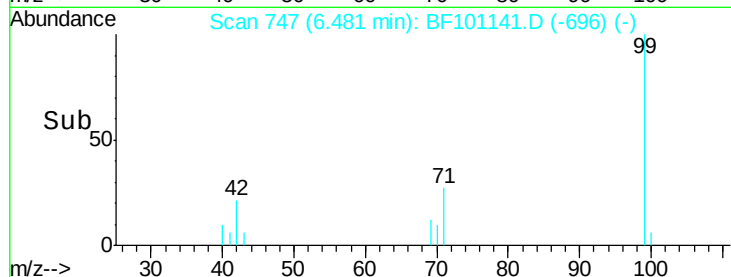
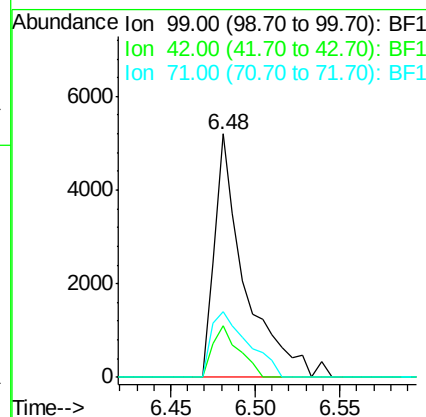
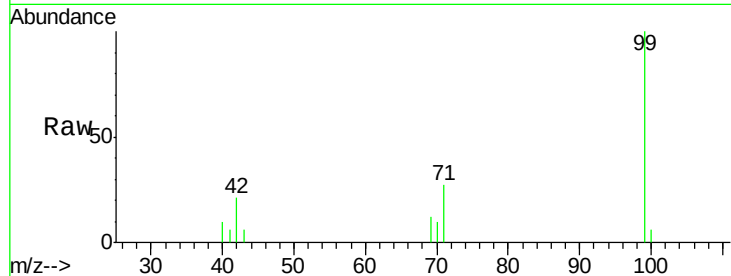
ClientSampleId :

CS-TP102-B(2+)DL

Tot Ion:	99	Resp:	6541
Ion	Ratio	Lower	Upper
99	100		
42	21.4	14.5	21.7
71	27.1	25.4	38.0

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#21

Naphthalene-d8

Concen: 20.000 ng

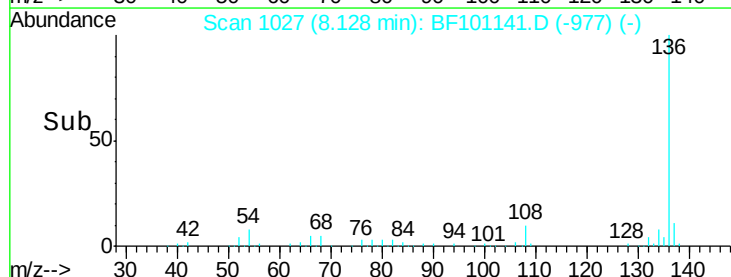
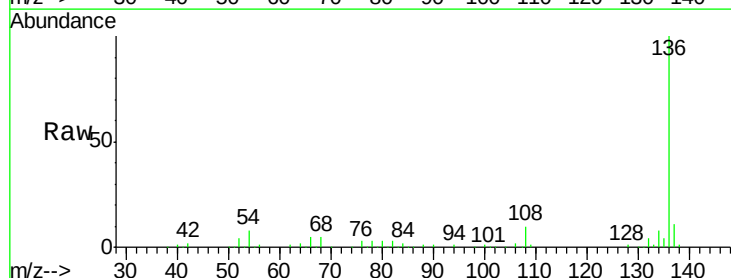
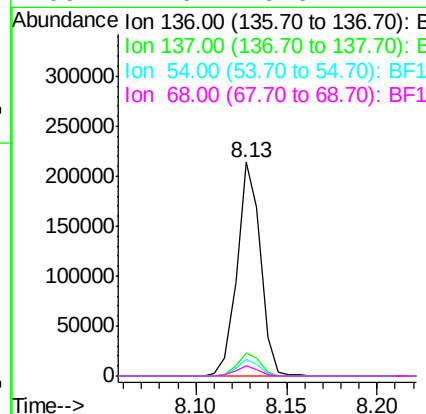
RT: 8.13 min Scan# 1027

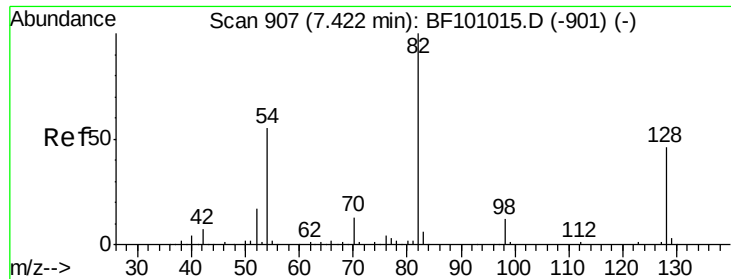
Delta R.T. -0.01 min

Lab File: BF101141.D

Acq: 5 Dec 2017 23:45

Tgt Ion:	136	Resp:	192038
Ion	Ratio	Lower	Upper
136	100		
137	10.8	8.9	13.3
54	7.7	6.6	9.8
68	4.6	5.0	7.4#





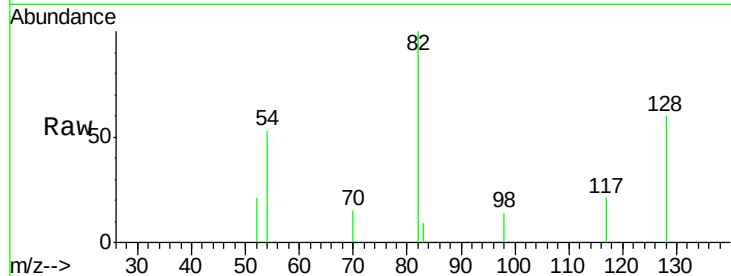
#23
Nitrobenzene-d5
Concen: 1.223 ng
RT: 7.41 min Scan# 905
Delta R.T. -0.01 min
Lab File: BF101141.D
Acq: 5 Dec 2017 23:45

Instrument :
BNA_F
ClientSampleId :
CS-TP102-B(2+)DL

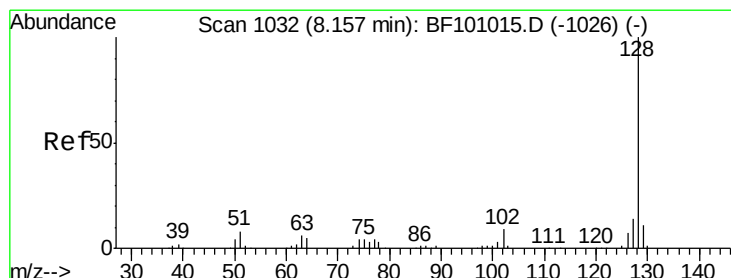
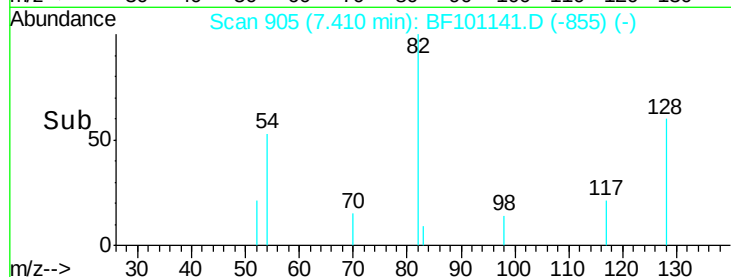
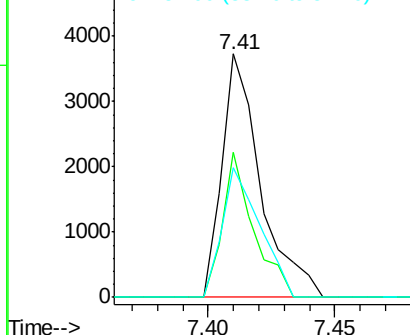
Tot Ion	82	Resp	3938
Ion Ratio	100	Lower	Upper
82	100		
128	59.7	36.1	54.1#
54	53.2	41.4	62.2

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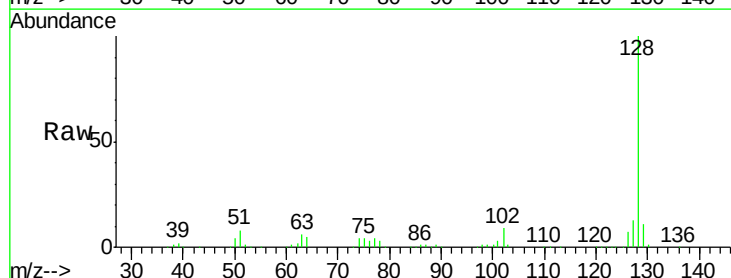


Abundance Ion 82.00 (81.70 to 82.70): BF1
Ion 128.00 (127.70 to 128.70): E
Ion 54.00 (53.70 to 54.70): BF1

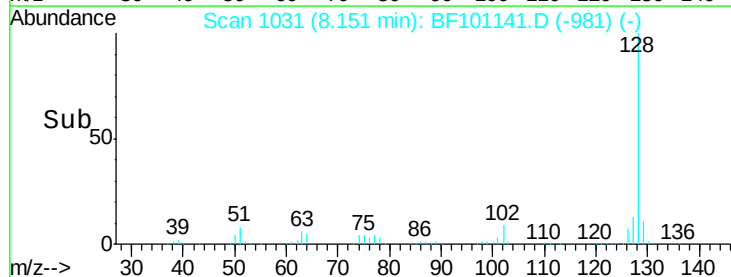
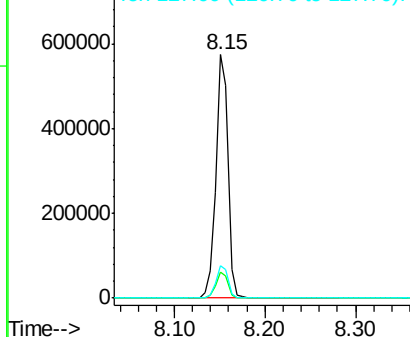


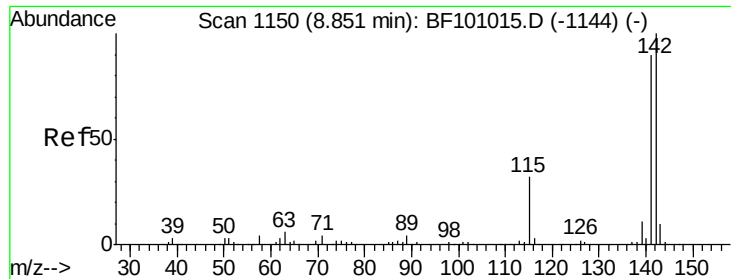
#31
Naphthalene
Concen: 55.896 ng
RT: 8.15 min Scan# 1031
Delta R.T. -0.01 min
Lab File: BF101141.D
Acq: 5 Dec 2017 23:45

Tgt Ion	128	Resp	529035
Ion Ratio	100	Lower	Upper
128	100		
129	10.6	8.8	13.2
127	13.3	10.9	16.3



Abundance Ion 128.00 (127.70 to 128.70): E
Ion 129.00 (128.70 to 129.70): E
Ion 127.00 (126.70 to 127.70): E





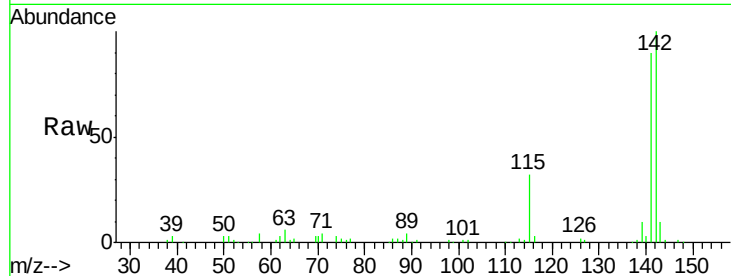
#37
2-Methylnaphthalene
Concen: 14.990 ng
RT: 8.84 min Scan# 1148
Delta R.T. -0.01 min
Lab File: BF101141.D
Acq: 5 Dec 2017 23:45

Instrument :
BNA_F
ClientSampleId :
CS-TP102-B(2+)DL

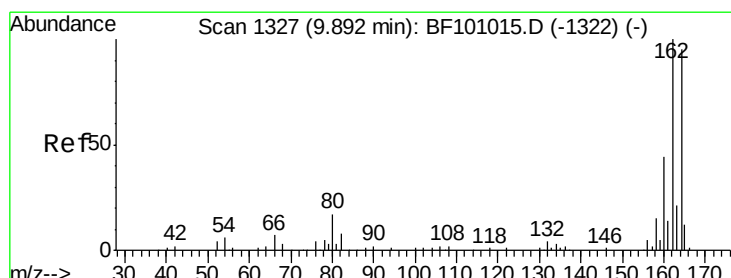
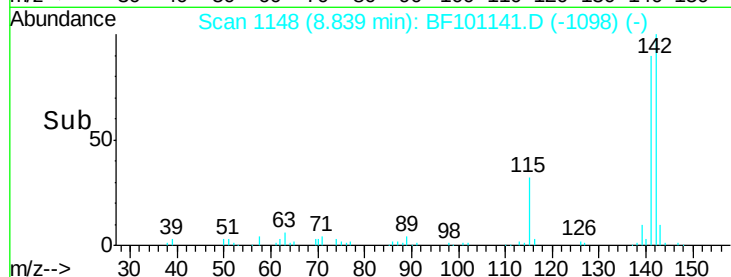
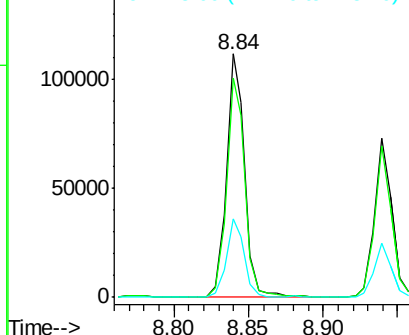
Tot Ion	Ratio	Lower	Upper
142	100		
141	90.3	70.8	106.2
115	32.2	26.1	39.1

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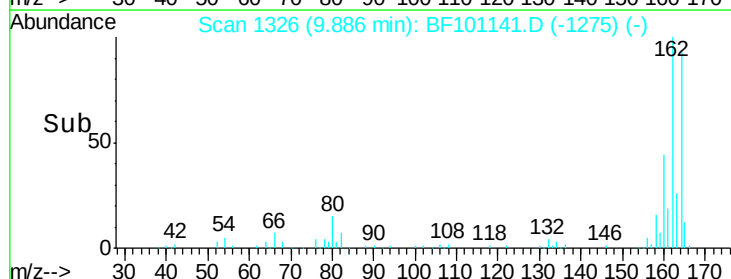
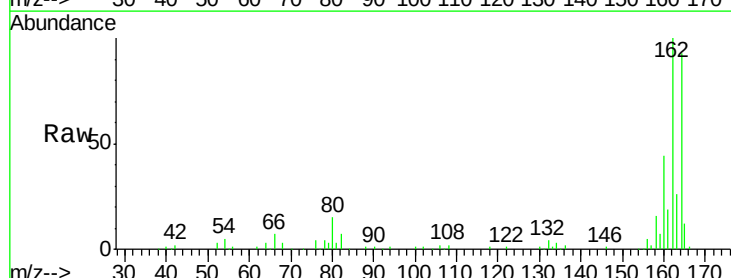
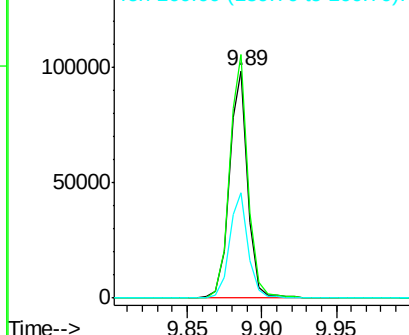
Abundance Ion 142.00 (141.70 to 142.70): E
Ion 141.00 (140.70 to 141.70): E
Ion 115.00 (114.70 to 115.70): E

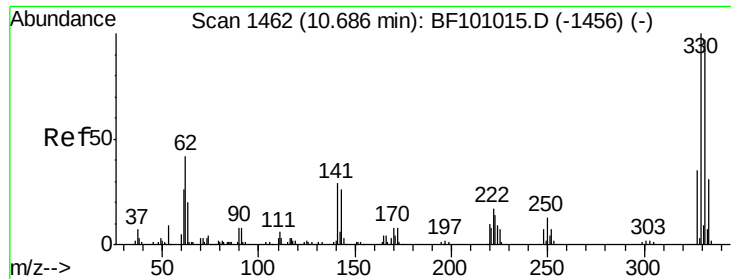


#38
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.89 min Scan# 1326
Delta R.T. 0.00 min
Lab File: BF101141.D
Acq: 5 Dec 2017 23:45

Tgt Ion	Ratio	Lower	Upper
164	100		
162	107.1	86.1	129.1
160	46.6	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





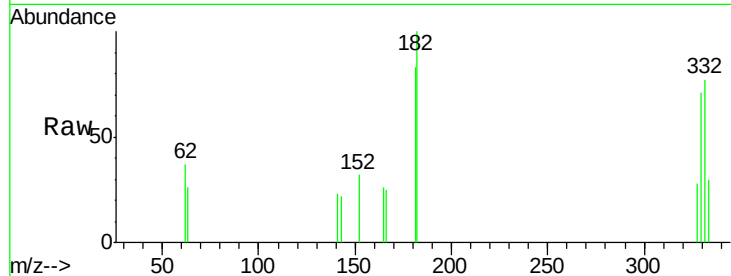
#41
 2,4,6-Tribromophenol
 Concen: 1.165 ng
 RT: 10.68 min Scan# 1461
 Delta R.T. 0.00 min
 Lab File: BF101141.D
 Acq: 5 Dec 2017 23:45

Instrument :
 BNA_F
 ClientSampleId :
 CS-TP102-B(2+)DL

Tot Ion	Ratio	Lower	Upper
330	100		
332	92.8	77.0	115.6
141	27.7	29.9	44.9

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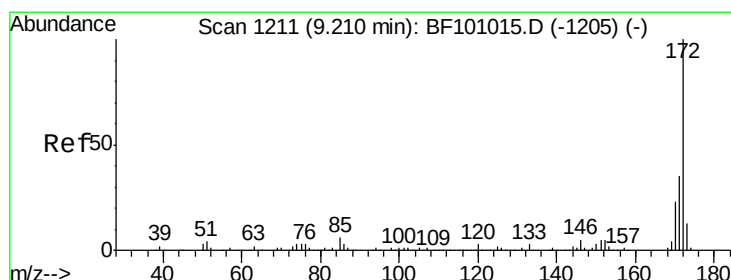
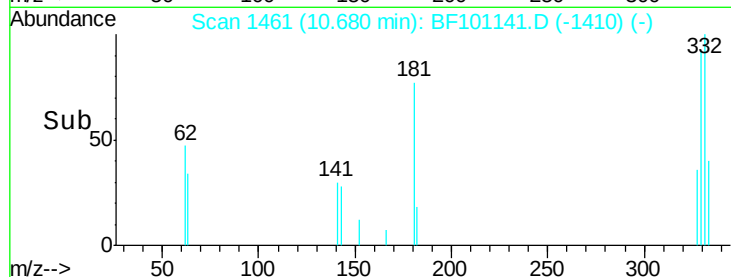
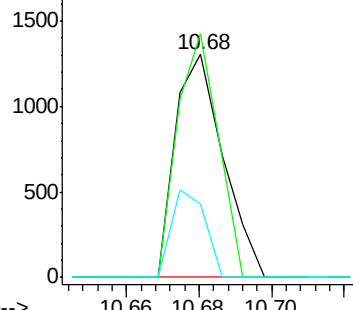


Abundance

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: 1.486 ng
 RT: 9.20 min Scan# 1209
 Delta R.T. -0.01 min
 Lab File: BF101141.D
 Acq: 5 Dec 2017 23:45

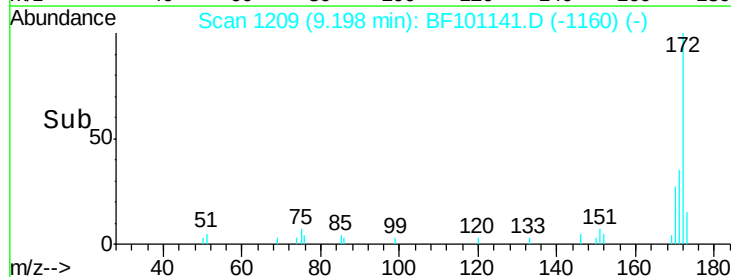
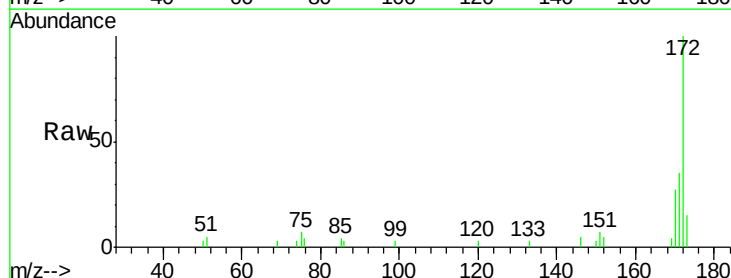
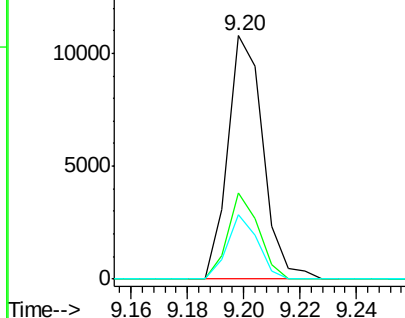
Tgt Ion	Ratio	Lower	Upper
172	100		
171	35.1	29.7	44.5
170	26.6	19.6	29.4

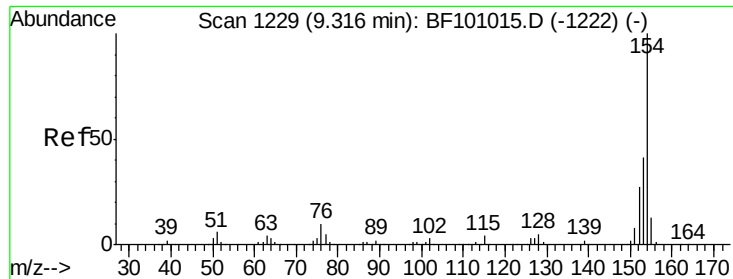
Abundance

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: 4.713 ng

RT: 9.30 min Scan# 1227

Delta R.T. -0.01 min

Lab File: BF101141.D

Acq: 5 Dec 2017 23:45

Instrument :

BNA_F

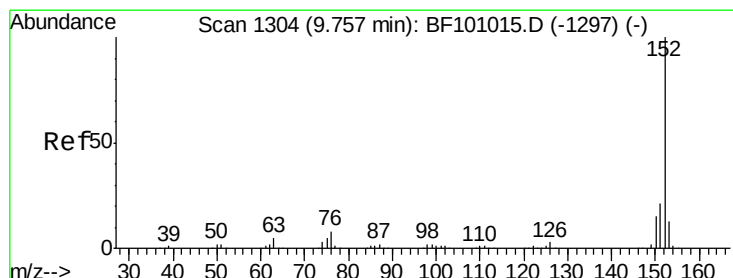
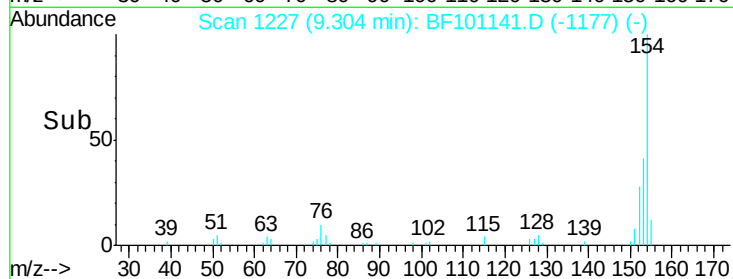
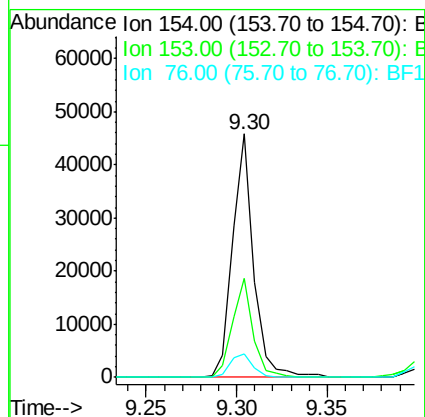
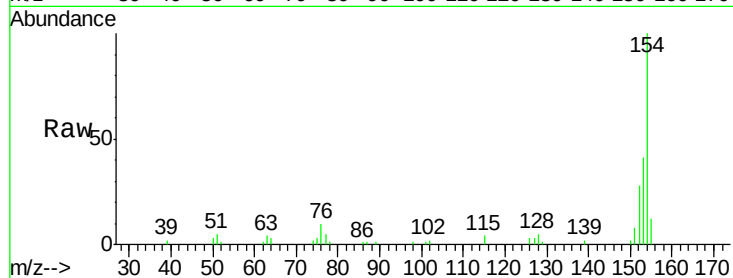
ClientSampleId :

CS-TP102-B(2+)DL

Tot Ion:	154	Resp:	37138
Ion Ratio	Lower	Upper	
154	100		
153	40.8	21.3	61.3
76	9.9	0.0	34.0

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#48

Acenaphthylene

Concen: 2.806 ng

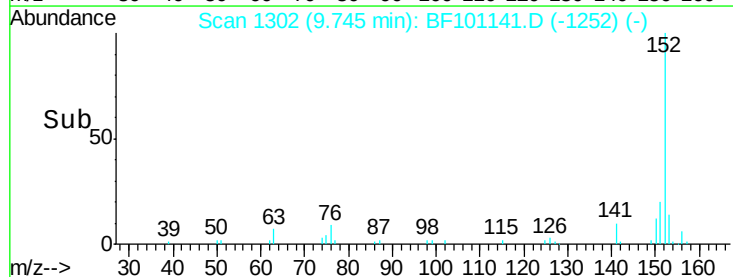
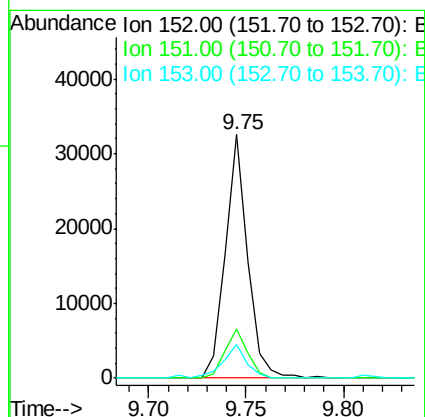
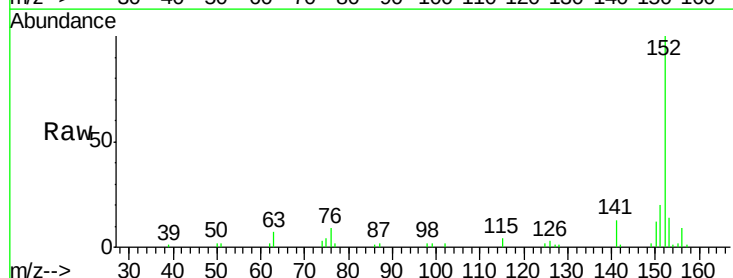
RT: 9.75 min Scan# 1302

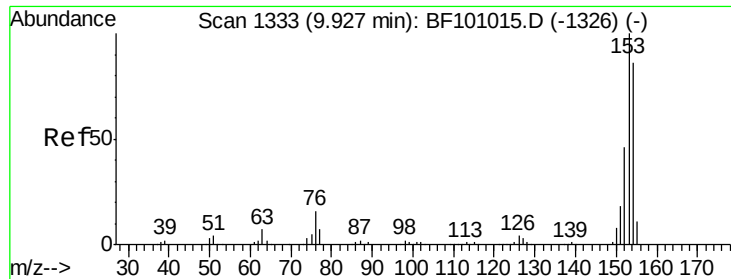
Delta R.T. -0.01 min

Lab File: BF101141.D

Acq: 5 Dec 2017 23:45

Tgt Ion:	152	Resp:	25802
Ion Ratio	Lower	Upper	
152	100		
151	20.1	16.3	24.5
153	13.8	10.7	16.1





#51

Acenaphthene

Concen: 23.745 ng

RT: 9.92 min Scan# 1331

Delta R.T. -0.01 min

Lab File: BF101141.D

Acq: 5 Dec 2017 23:45

Instrument :

BNA_F

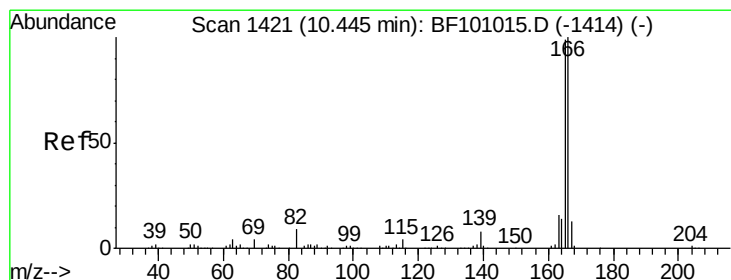
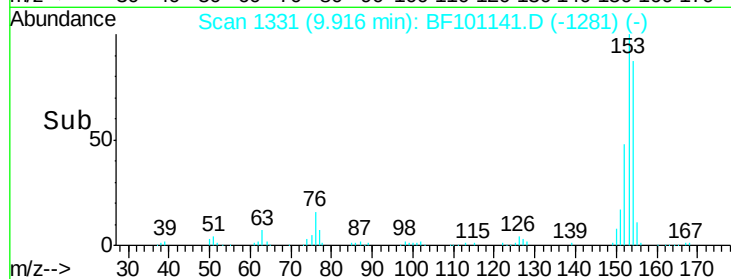
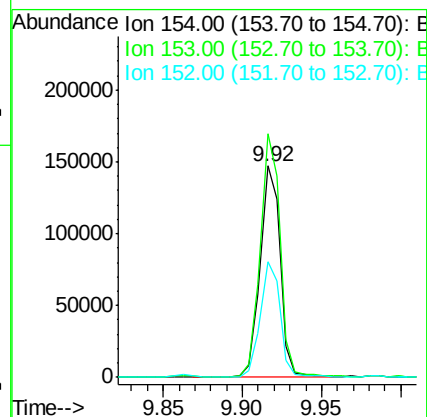
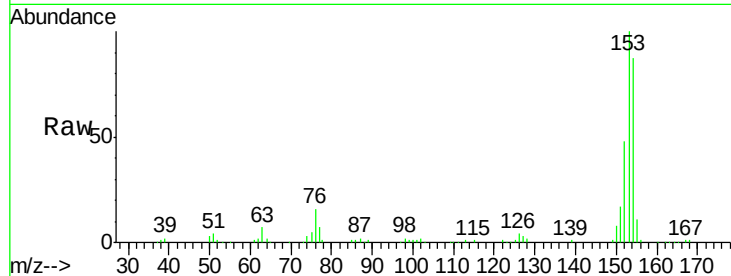
ClientSampleId :

CS-TP102-B(2+)DL

Tot Ion:	154	Resp:	130753
Ion Ratio	Lower	Upper	
154	100		
153	115.2	91.2	136.8
152	54.9	43.8	65.8

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#57

Fluorene

Concen: 10.373 ng

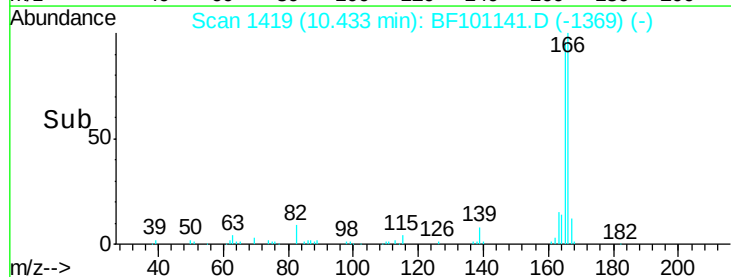
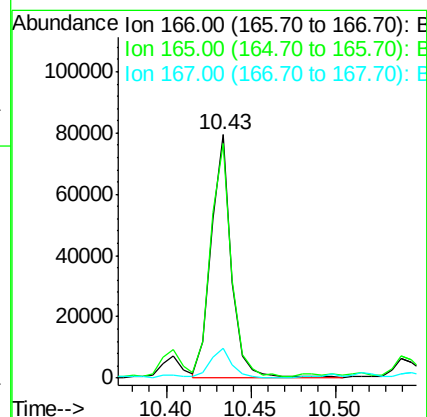
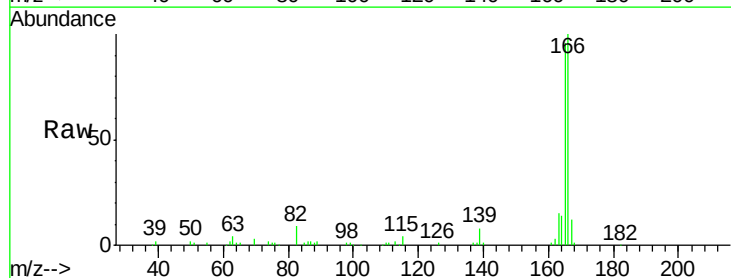
RT: 10.43 min Scan# 1419

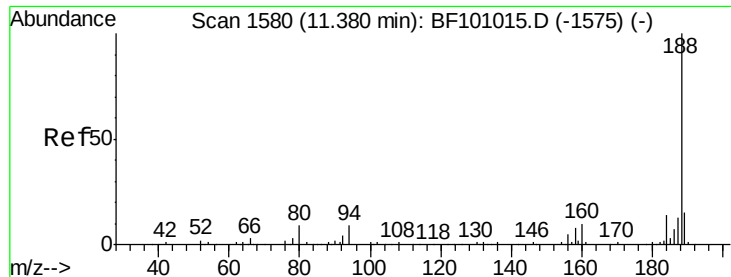
Delta R.T. -0.01 min

Lab File: BF101141.D

Acq: 5 Dec 2017 23:45

Tgt Ion:	166	Resp:	66911
Ion Ratio	Lower	Upper	
166	100		
165	96.2	79.8	119.8
167	12.4	10.6	16.0





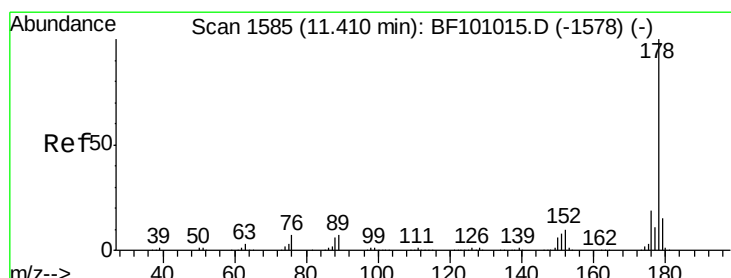
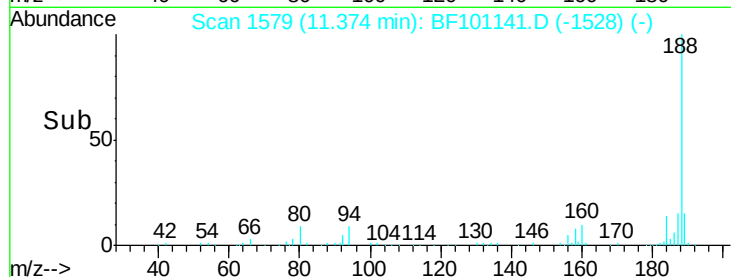
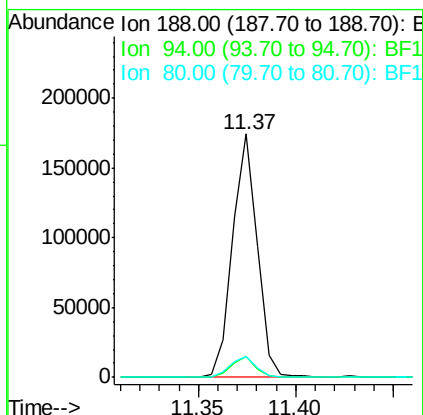
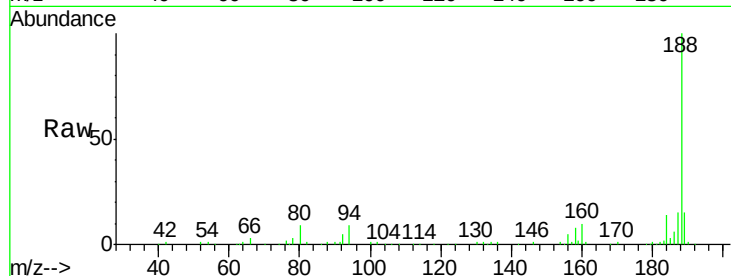
#63
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.37 min Scan# 1579
Delta R.T. 0.00 min
Lab File: BF101141.D
Acq: 5 Dec 2017 23:45

Instrument :
BNA_F
ClientSampleId :
CS-TP102-B(2+)DL

Tot Ion	Ratio	Resp Lower	Upper
188	100		
94	8.5	8.5	12.7
80	8.6	9.2	13.8#

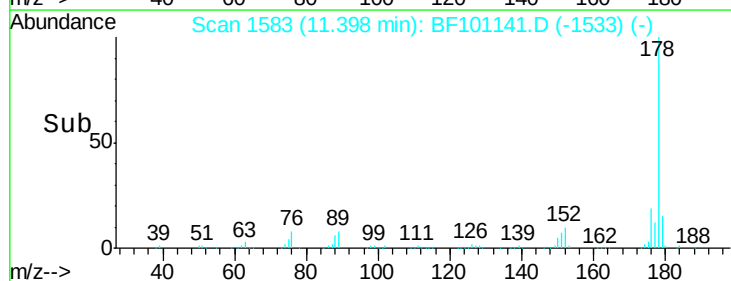
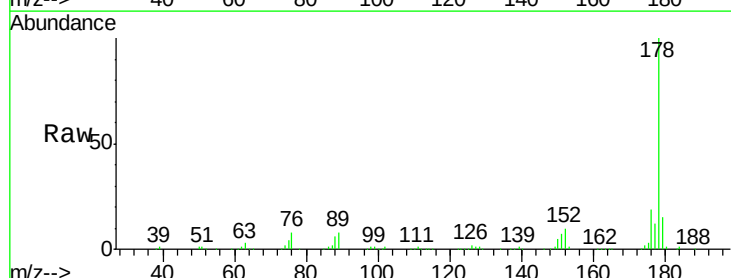
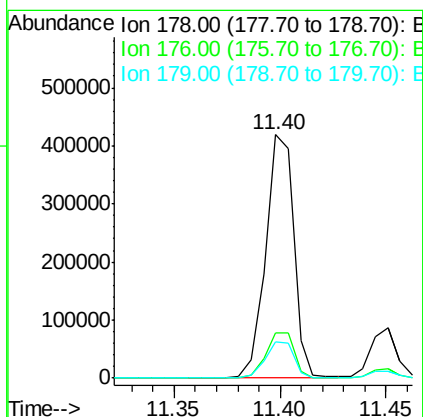
Manual Integrations
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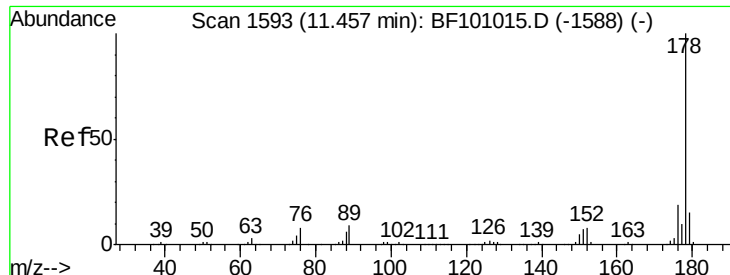
Sohil
12/6/2017 5:12:38 PM



#70
Phenanthrene
Concen: 46.242 ng
RT: 11.40 min Scan# 1583
Delta R.T. -0.01 min
Lab File: BF101141.D
Acq: 5 Dec 2017 23:45

Tgt Ion	Ratio	Resp Lower	Upper
178	100		
176	18.8	15.8	23.8
179	15.1	13.0	19.6





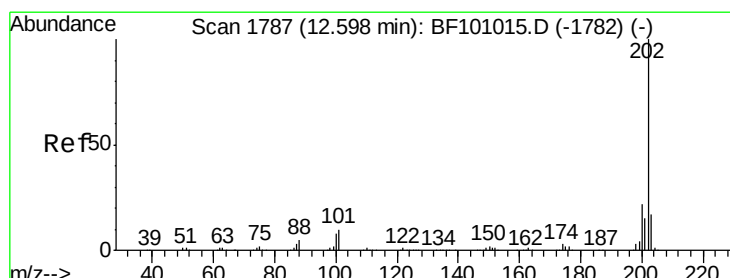
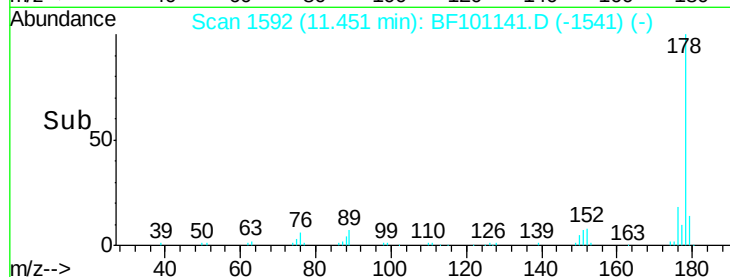
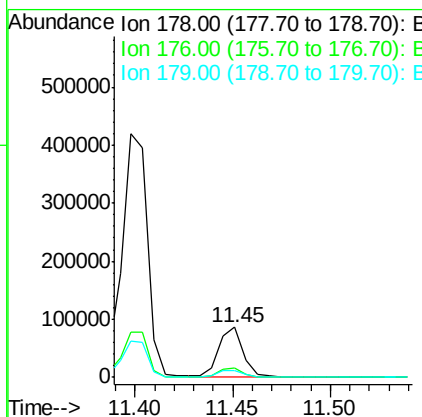
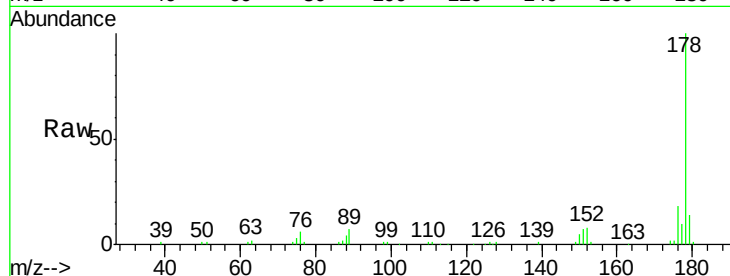
#71
 Anthracene
 Concen: 8.729 ng
 RT: 11.45 min Scan# 1592
 Delta R.T. 0.00 min
 Lab File: BF101141.D
 Acq: 5 Dec 2017 23:45

Instrument :
 BNA_F
 ClientSampleId :
 CS-TP102-B(2+)DL

Tot Ion	Ratio	Lower	Upper
178	100		
176	17.9	15.4	23.2
179	14.3	12.6	19.0

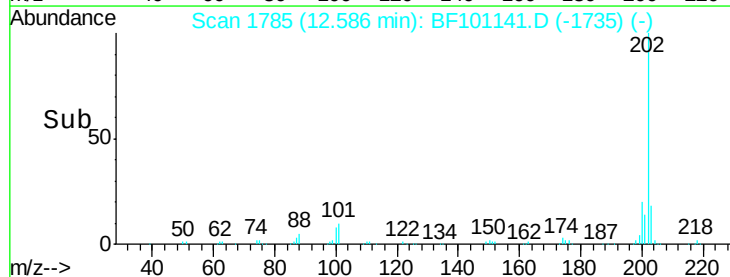
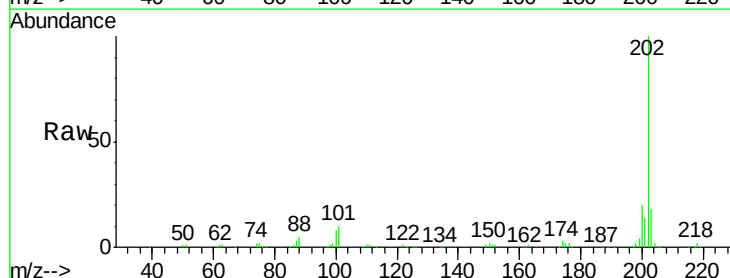
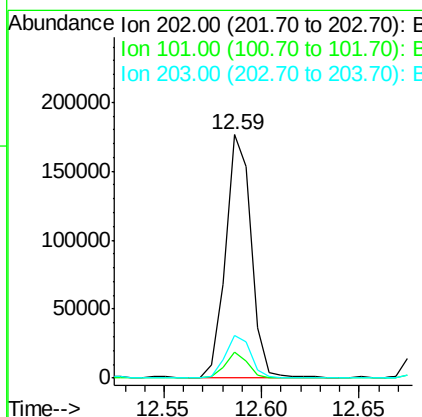
Manual Integrations
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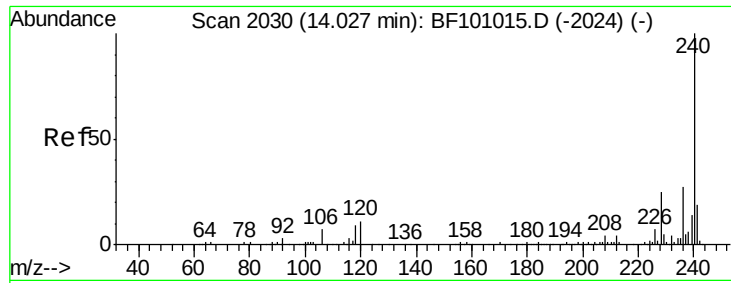
Sohil
 12/6/2017 5:12:38 PM



#74
 Fluoranthene
 Concen: 17.220 ng
 RT: 12.59 min Scan# 1785
 Delta R.T. -0.01 min
 Lab File: BF101141.D
 Acq: 5 Dec 2017 23:45

Tgt Ion	Ratio	Lower	Upper
202	100		
101	10.5	0.0	34.1
203	17.8	0.0	38.1





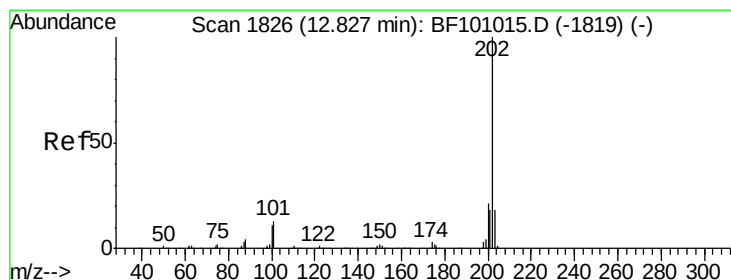
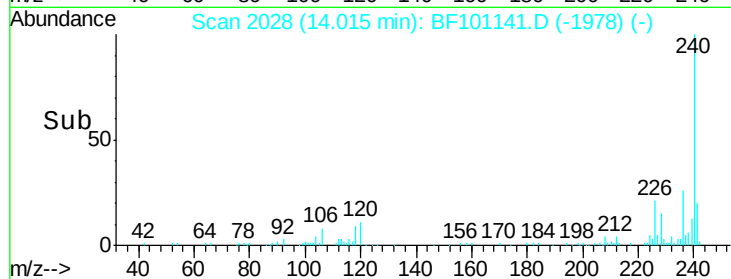
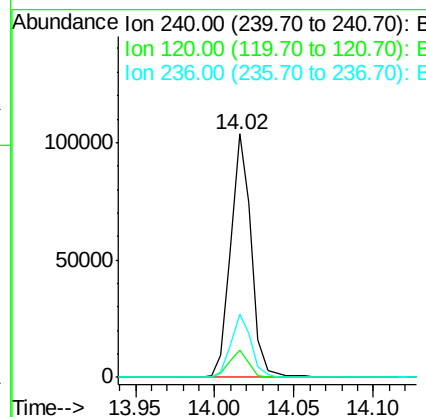
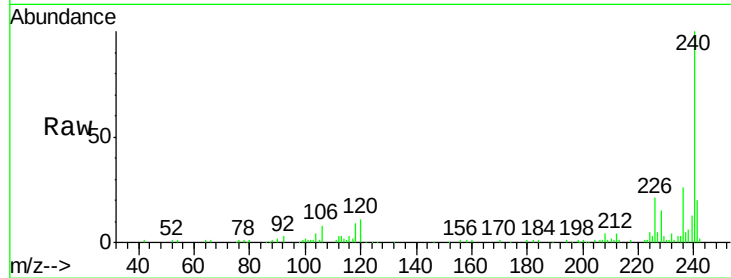
#75
Chrysene-d12
Concen: 20.000 ng
RT: 14.02 min Scan# 2028
Delta R.T. -0.01 min
Lab File: BF101141.D
Acq: 5 Dec 2017 23:45

Instrument :
BNA_F
ClientSampleId :
CS-TP102-B(2+)DL

Tot Ion	Ratio	Lower	Upper
240	100		
120	11.0	9.5	14.3
236	26.1	20.7	31.1

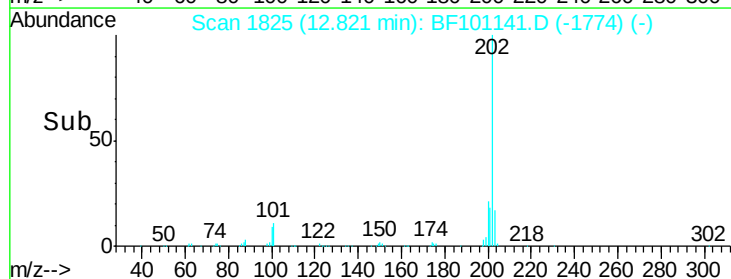
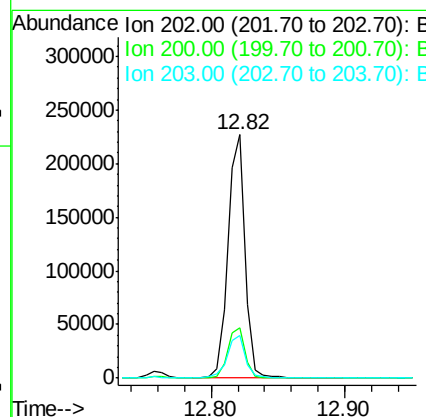
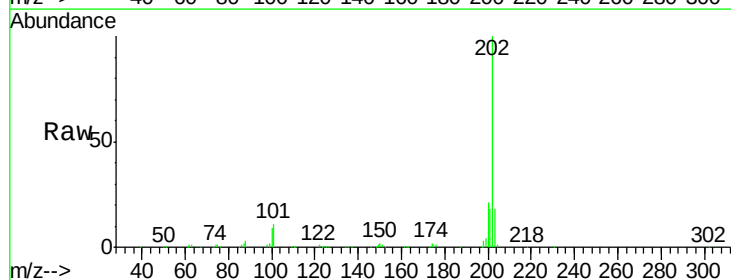
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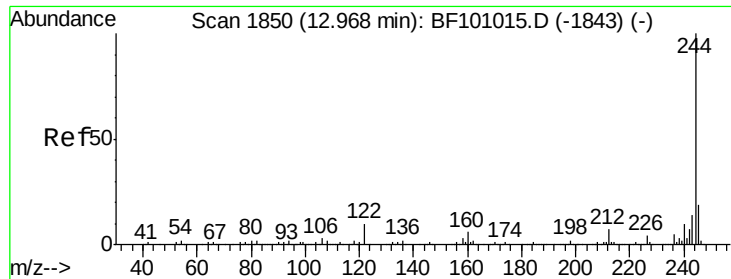
Sohil
12/6/2017 5:12:38 PM



#77
Pyrene
Concen: 32.240 ng
RT: 12.82 min Scan# 1825
Delta R.T. 0.00 min
Lab File: BF101141.D
Acq: 5 Dec 2017 23:45

Tgt Ion	Ratio	Lower	Upper
202	100		
200	20.8	17.4	26.2
203	17.5	14.3	21.5





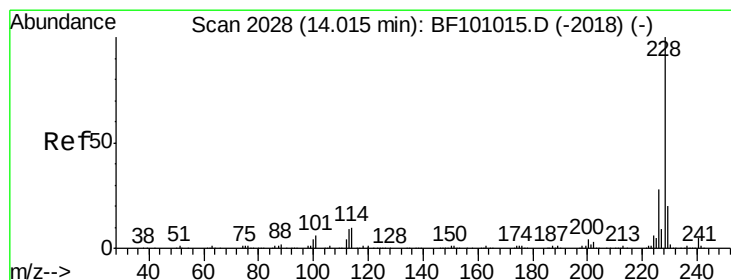
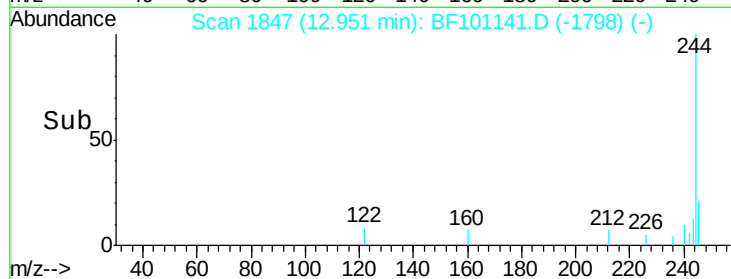
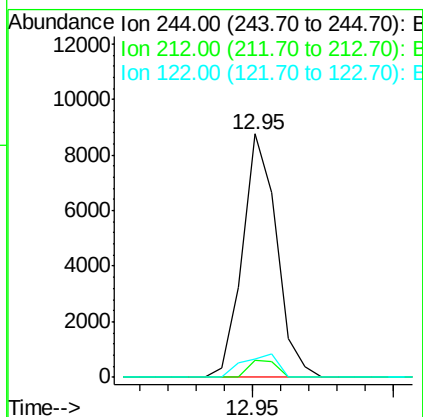
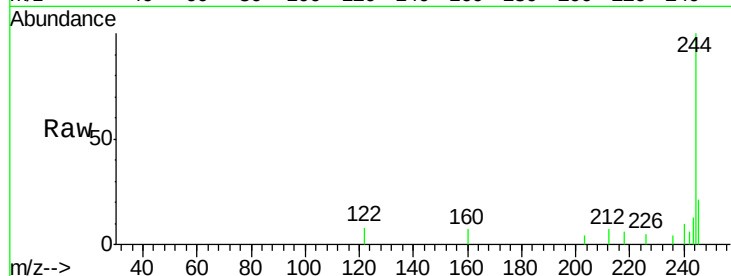
#78
 Terphenyl-d14
 Concen: 1.734 ng
 RT: 12.95 min Scan# 1847
 Delta R.T. -0.01 min
 Lab File: BF101141.D
 Acq: 5 Dec 2017 23:45

Instrument :
 BNA_F
 ClientSampleId :
 CS-TP102-B(2+)DL

Tot Ion	Ratio	Lower	Upper
244	100		
212	7.2	5.4	8.0
122	7.5	11.0	16.4

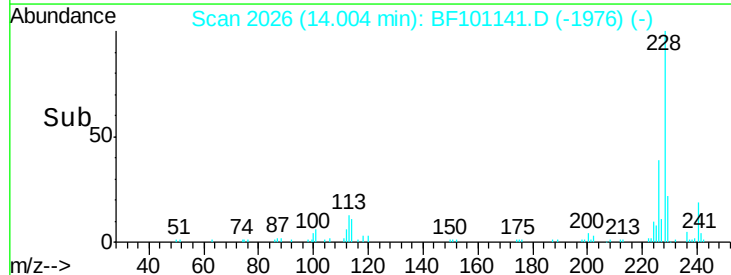
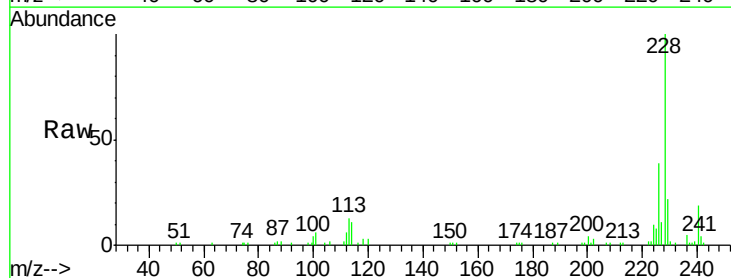
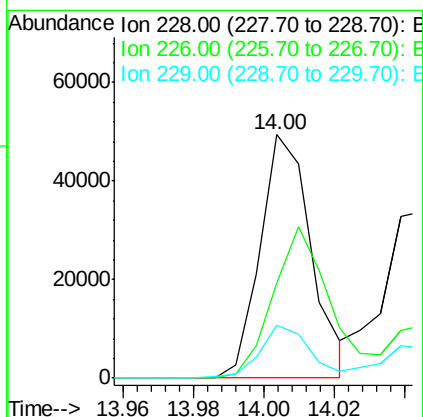
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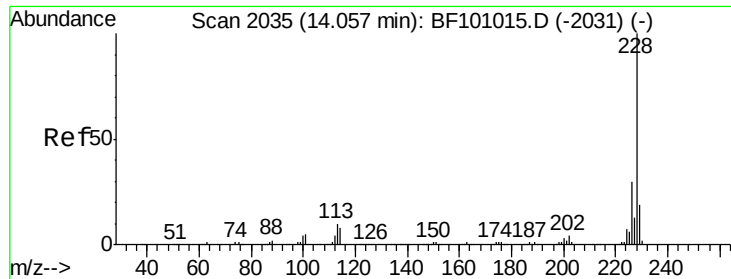
Sohil
 12/6/2017 5:12:38 PM



#80
 Benzo(a)anthracene
 Concen: 8.439 ng m
 RT: 14.00 min Scan# 2026
 Delta R.T. -0.01 min
 Lab File: BF101141.D
 Acq: 5 Dec 2017 23:45

Tgt Ion	Ratio	Lower	Upper
228	100		
226	38.8	22.6	33.8
229	21.5	15.8	23.6





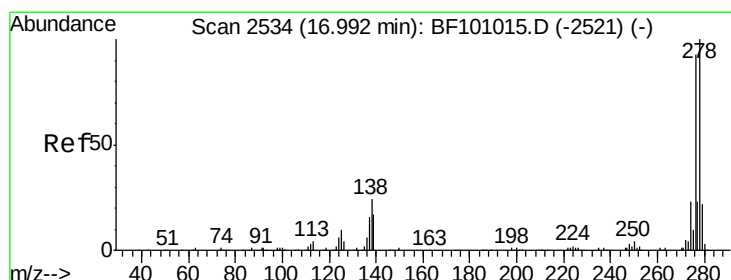
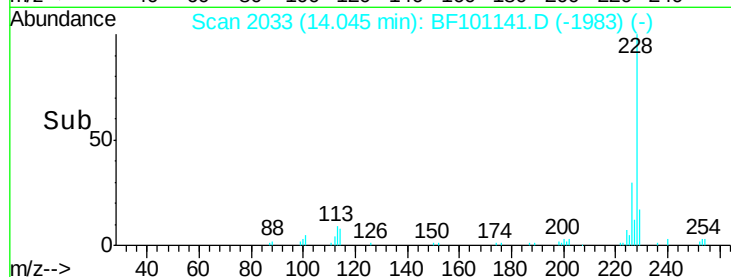
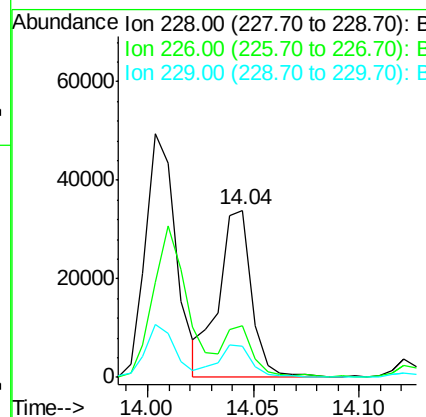
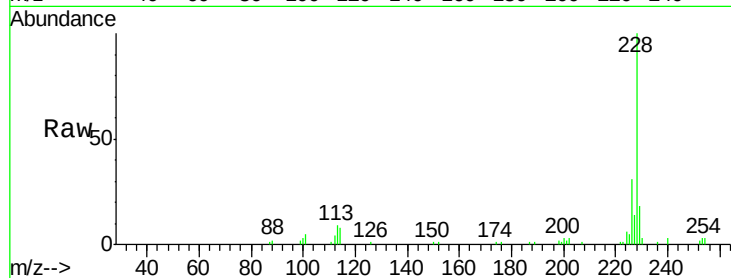
#82
Chrysene
Concen: 6.808 ng
RT: 14.04 min Scan# 2033
Delta R.T. -0.01 min
Lab File: BF101141.D
Acq: 5 Dec 2017 23:45

Instrument :
BNA_F
ClientSampleId :
CS-TP102-B(2+)DL

Tot Ion:	228	Resp:	37011
Ion Ratio	Lower	Upper	
228	100		
226	31.0	25.0	37.6
229	18.3	16.2	24.4

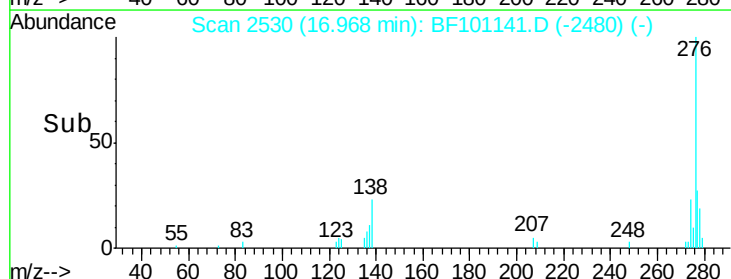
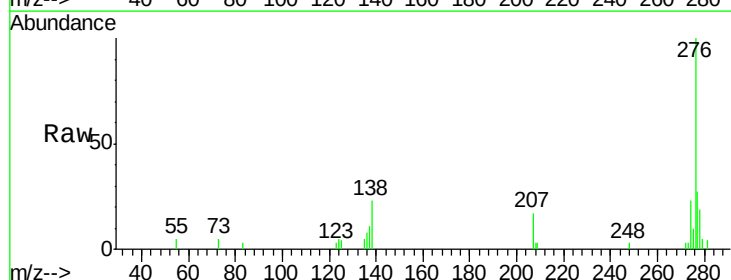
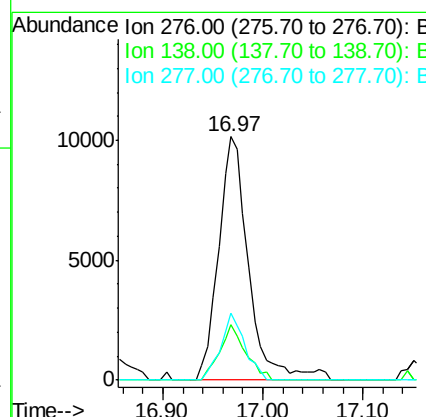
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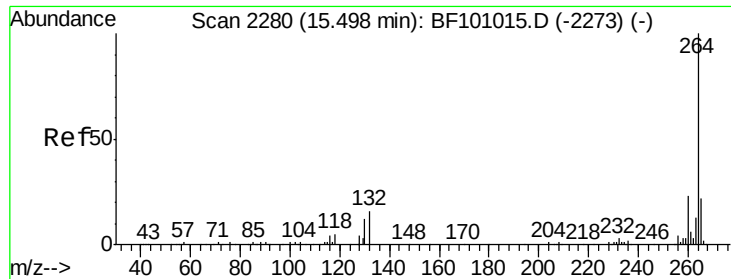
Sohil
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#85
Indeno(1,2,3-cd)pyrene
Concen: 4.391 ng m
RT: 16.97 min Scan# 2530
Delta R.T. -0.01 min
Lab File: BF101141.D
Acq: 5 Dec 2017 23:45

Tgt Ion:	276	Resp:	21221
Ion Ratio	Lower	Upper	
276	100		
138	19.7	25.0	37.6#
277	22.0	20.1	30.1





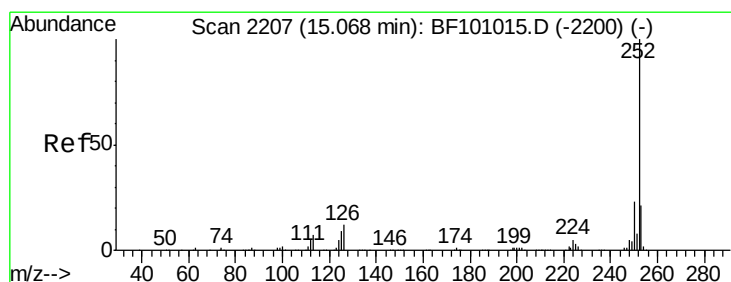
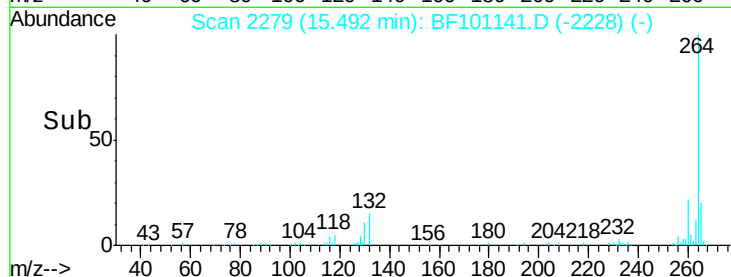
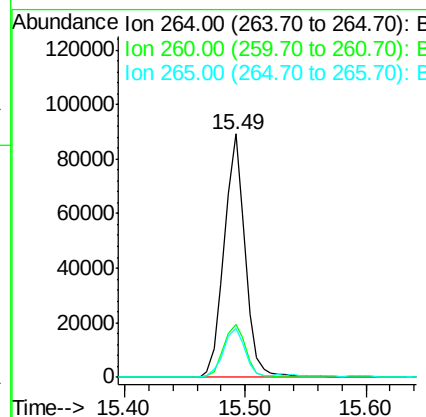
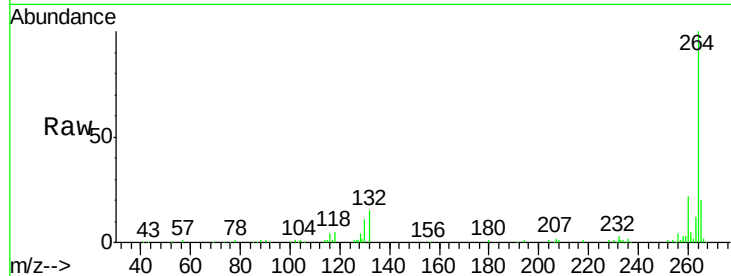
#86
Pervlene-d12
Concen: 20.000 ng
RT: 15.49 min Scan# 2279
Delta R.T. 0.00 min
Lab File: BF101141.D
Acq: 5 Dec 2017 23:45

Instrument :
BNA_F
ClientSampleId :
CS-TP102-B(2+)DL

Tot Ion	Ratio	Lower	Upper
264	100		
260	21.6	19.2	28.8
265	20.0	17.5	26.3

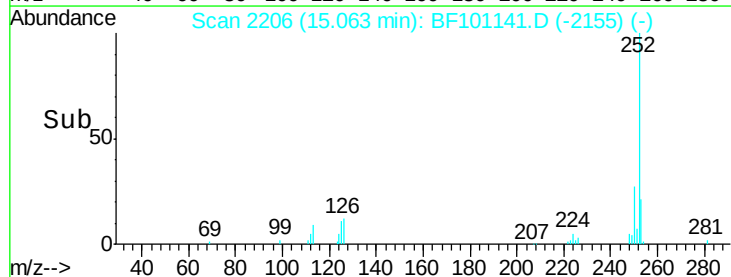
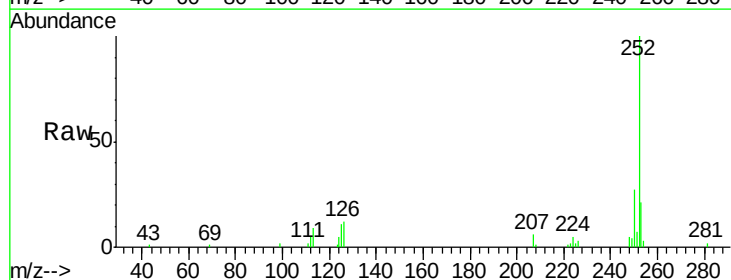
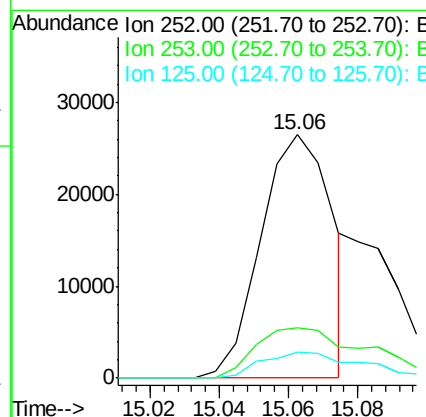
Manual Integrations
APPROVED

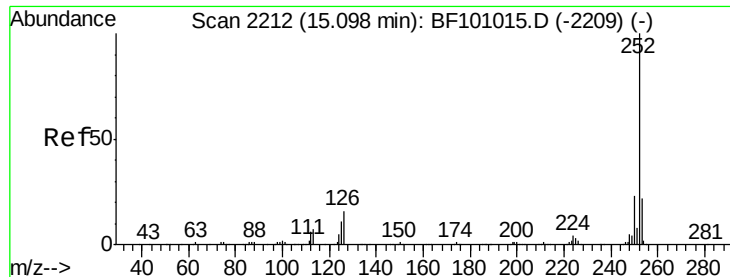
Sohil
12/6/2017 5:12:38 PM



#87
Benzo(b)fluoranthene
Concen: 5.877 ng m
RT: 15.06 min Scan# 2206
Delta R.T. 0.00 min
Lab File: BF101141.D
Acq: 5 Dec 2017 23:45

Tgt Ion	Ratio	Lower	Upper
252	100		
253	20.6	17.0	25.6
125	10.8	9.0	13.6





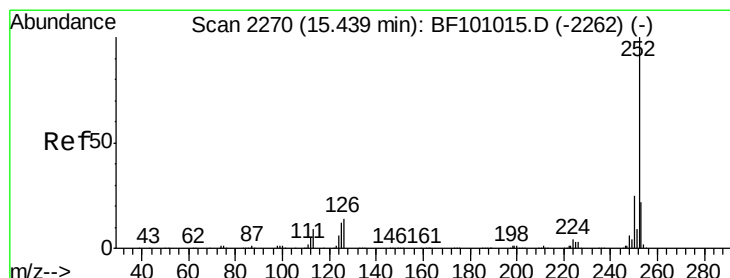
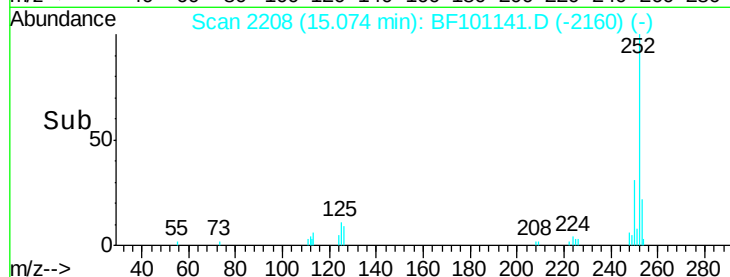
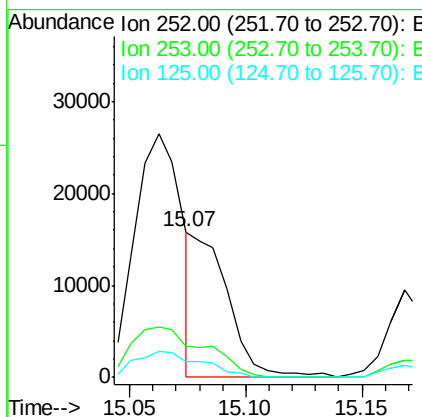
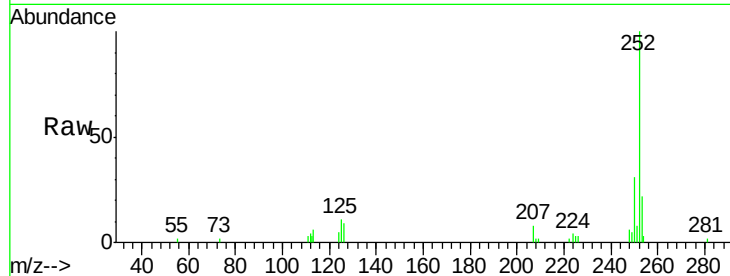
#88
Benzo(k)fluoranthene
Concen: 2.597 ng m
RT: 15.07 min Scan# 2208
Delta R.T. -0.02 min
Lab File: BF101141.D
Acq: 5 Dec 2017 23:45

Instrument :
BNA_F
ClientSampleId :
CS-TP102-B(2+)DL

Tot Ion	Ratio	Lower	Upper
252	100		
253	21.5	17.9	26.9
125	10.5	10.2	15.2

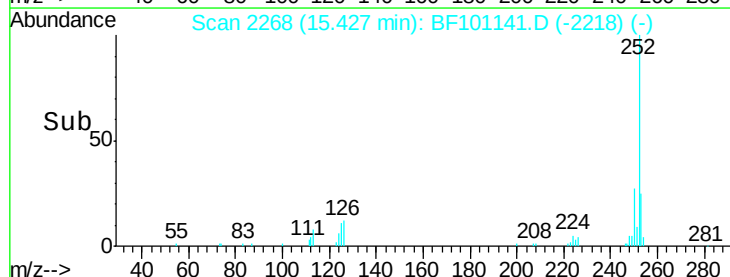
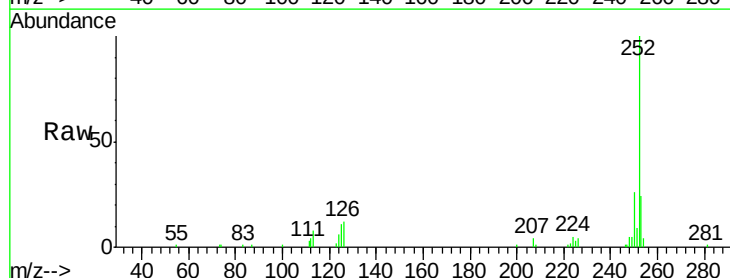
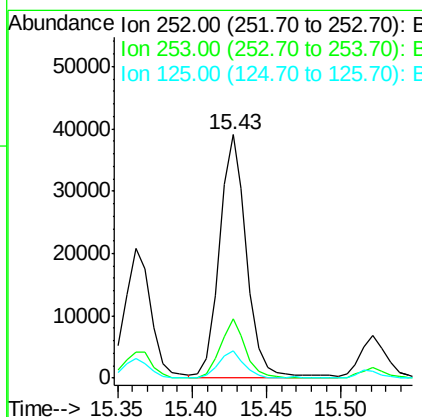
Manual Integrations
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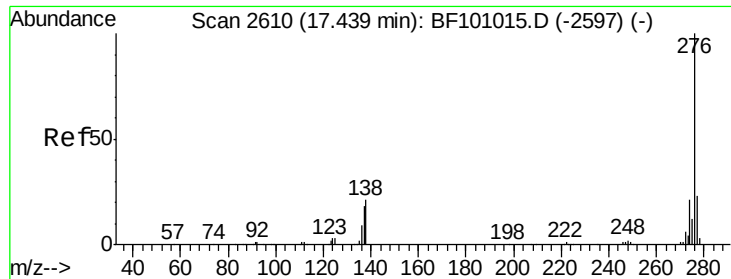
Sohil
12/6/2017 5:12:38 PM



#89
Benzo(a)pyrene
Concen: 8.653 ng
RT: 15.43 min Scan# 2268
Delta R.T. -0.01 min
Lab File: BF101141.D
Acq: 5 Dec 2017 23:45

Tgt Ion	Ratio	Lower	Upper
252	100		
253	24.4	17.1	25.7
125	11.1	9.8	14.6





#91
 Benzo(a,h,i)perylene
 Concen: 4.463 ng
 RT: 17.42 min Scan# 2606
 Delta R.T. -0.01 min
 Lab File: BF101141.D
 Acq: 5 Dec 2017 23:45

Instrument :
 BNA_F
 ClientSampleId :
 CS-TP102-B(2+)DL

Tot Ion	Ratio	Lower	Upper
276	100		
277	23.6	17.9	26.9
138	16.5	21.8	32.8

Manual Integrations
 APPROVED

Sohil
 12/6/2017 5:12:38 PM

