

Data Path : Z:\HPCHEM1\BNA F\DATA\BF122117\
 Data File : BF101608.D
 Acq On : 21 Dec 2017 15:50
 Operator : SJ/JU
 Sample : I6681-07 2X
 Misc :
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 PL-01-121917-D

Manual Integrations
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Sohil
 12/22/2017 12:41:50 PM

Quant Time: Dec 21 18:18:21 2017
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF121417.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Dec 20 14:25:04 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.80	152	130745	20.00	ng	0.00
21) Naphthalene-d8	8.08	136	464312	20.00	ng	0.00
38) Acenaphthene-d10	9.83	164	175259	20.00	ng	0.00
63) Phenanthrene-d10	11.33	188	295434	20.00	ng	0.00
75) Chrysene-d12	13.98	240	274119	20.00	ng	0.00
86) Perylene-d12	15.44	264	249811	20.00	ng	0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.42	112	462822	52.73	ng	0.00
7) Phenol-d6	6.44	99	538075	49.26	ng	0.00
23) Nitrobenzene-d5	7.36	82	319852	38.35	ng	0.00
41) 2,4,6-Tribromophenol	10.63	330	77085	45.65	ng	0.00
44) 2-Fluorobiphenyl	9.15	172	472907	41.86	ng	0.00
78) Terphenyl-d14	12.90	244	385914	33.94	ng	0.00
Target Compounds						Qvalue
31) Naphthalene	8.10	128	491227	21.015	ng	99
37) 2-Methylnaphthalene	8.79	142	266101	17.473	ng	99
45) 1,1'-Biphenyl	9.25	154	46072	2.964	ng	98
48) Acenaphthylene	9.70	152	95330	5.075	ng	100
49) Dimethylphthalate	9.55	163	46067	3.268	ng	99
51) Acenaphthene	9.86	154	160300	14.204	ng	99
54) Dibenzofuran	10.04	168	100872	7.033	ng	# 93
57) Fluorene	10.38	166	284426	23.443	ng	99
70) Phenanthrene	11.36	178	1342543	81.715	ng	98
71) Anthracene	11.40	178	554155	33.020	ng	99
72) Carbazole	11.56	167	83124	5.290	ng	99
74) Fluoranthene	12.55	202	1452278	84.214	ng	98
77) Pvrene	12.78	202	1707993	83.023	ng	99
80) Benzo(a)anthracene	13.97	228	975879	53.915	ng	97
82) Chrysene	14.01	228	873364	51.103	ng	97
85) Indeno(1,2,3-cd)pyrene	16.93	276	260625	17.125	ng	# 92
87) Benzo(b)fluoranthene	15.03	252	786536m	51.656	ng	
88) Benzo(k)fluoranthene	15.04	252	253947m	17.154	ng	
89) Benzo(a)pvrene	15.39	252	606087	43.179	ng	98
90) Dibenzo(a,h)anthracene	16.92	278	82963m	6.884	ng	
91) Benzo(q,h,i)perylene	17.38	276	283620	23.766	ng	94

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

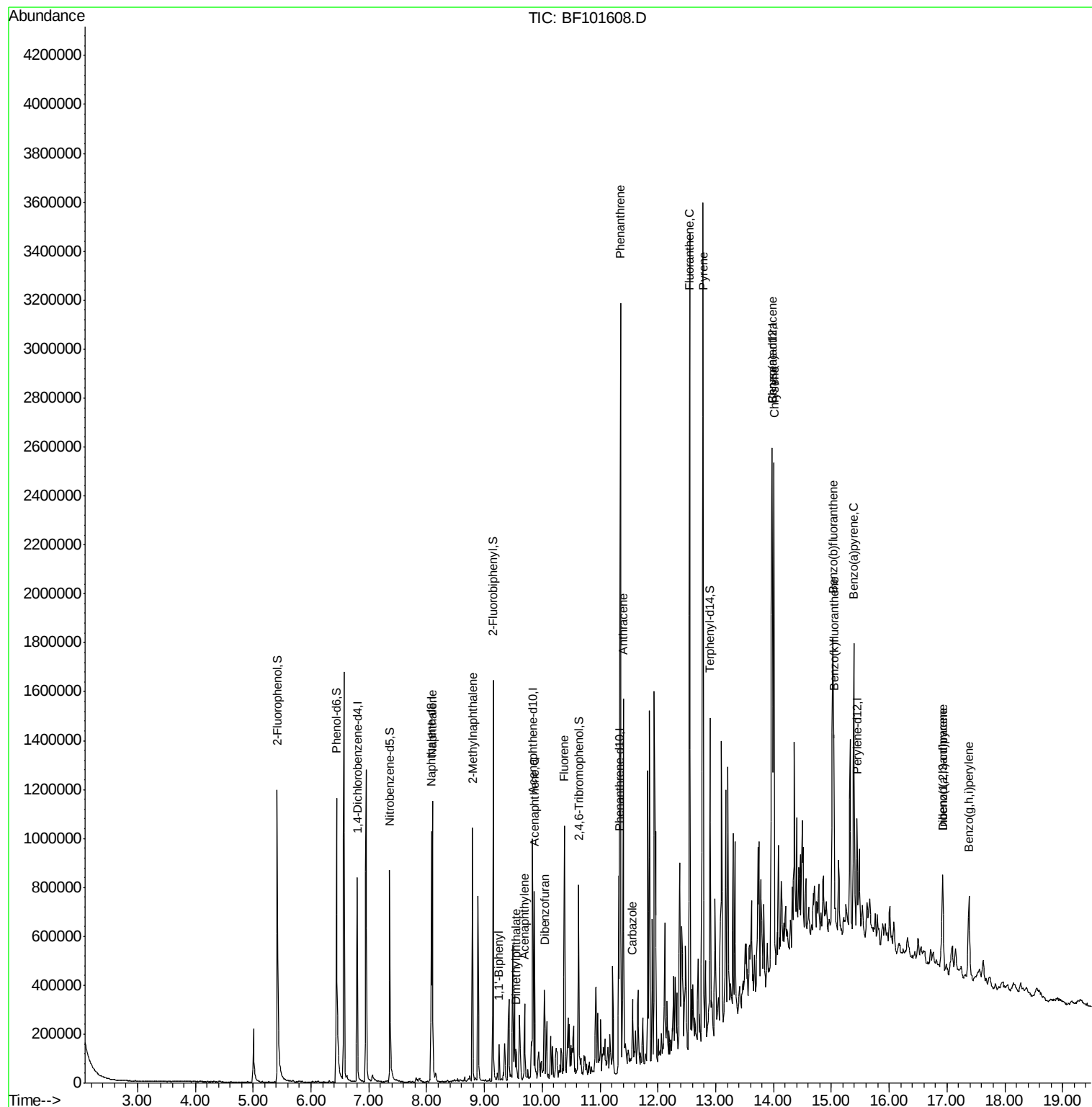
Data Path : Z:\HPCHEM1\BNA F\DATA\BF122117\
Data File : BF101608.D
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Misc :
ALS Vial : 12 Sample Multiplier: 1

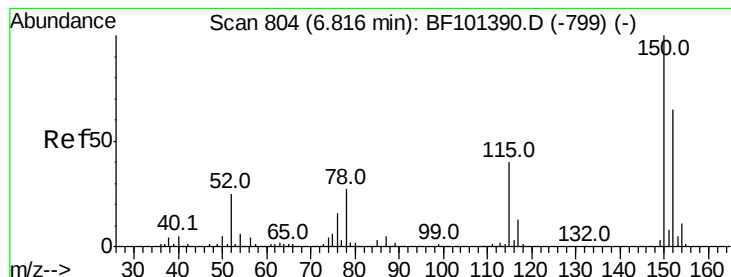
Instrument :
BNA_F
ClientSampleId :
PL-01-121917-D

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Quant Time: Dec 21 18:18:21 2017
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF121417.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Dec 20 14:25:04 2017
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#1

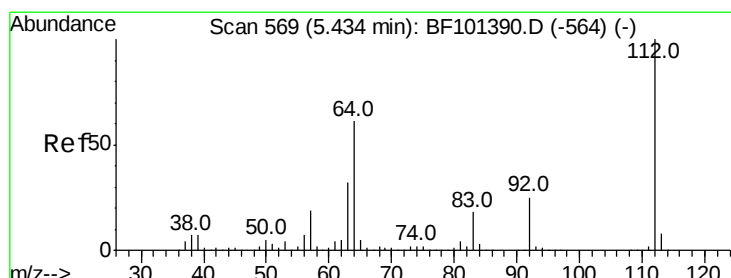
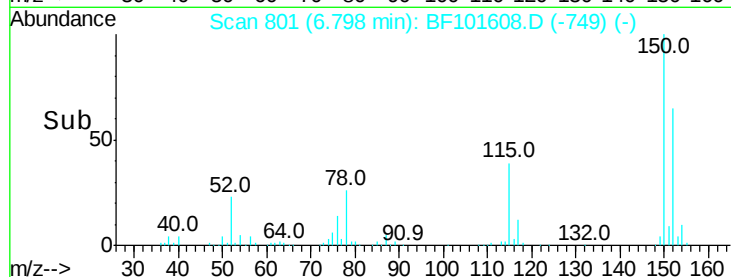
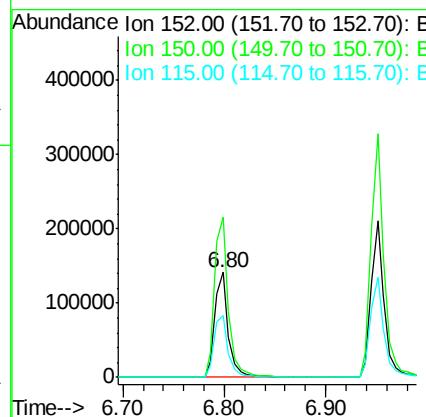
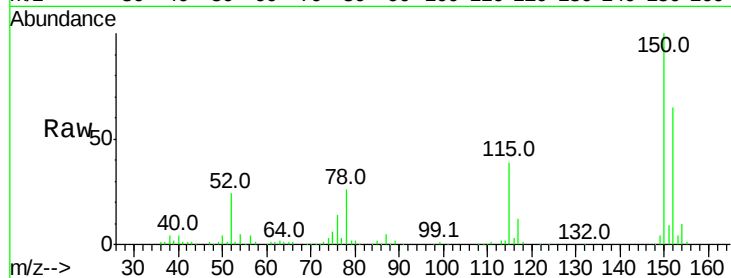
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.80 min Scan# 801
Delta R.T. 0.01 min
Lab File: BF101608.D
Acq: 21 Dec 2017 15:50

Instrument :
BNA_F
ClientSampleId :
PL-01-121917-D

Tot Ion	Ratio	Lower	Upper
152	100		
150	152.8	124.6	186.8
115	59.1	50.1	75.1

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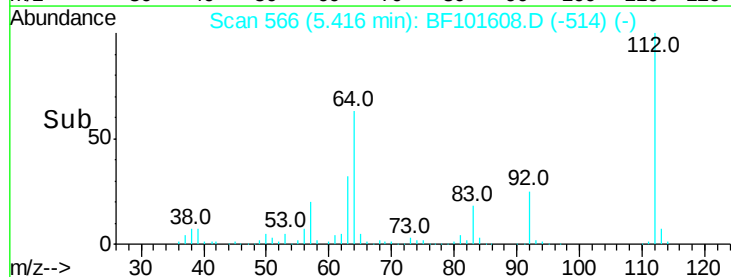
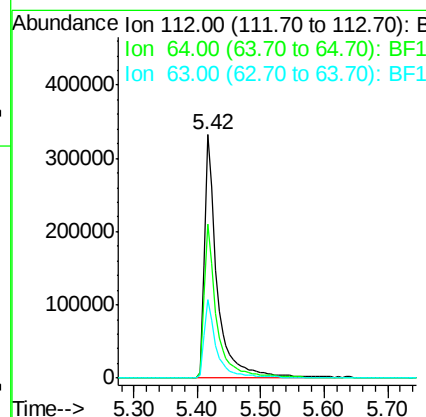
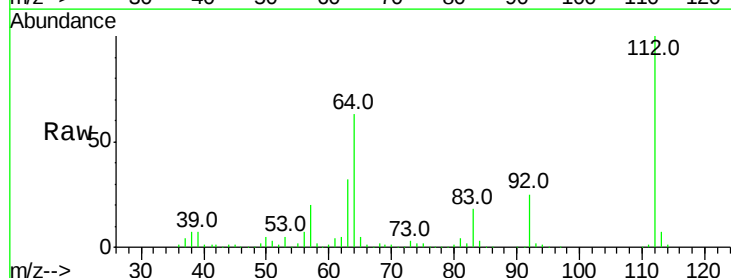
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#5

2-Fluorophenol
Concen: 52.729 ng
RT: 5.42 min Scan# 566
Delta R.T. 0.01 min
Lab File: BF101608.D
Acq: 21 Dec 2017 15:50

Tgt Ion	Ratio	Lower	Upper
112	100		
64	63.5	47.9	71.9
63	32.0	23.7	35.5





#7

Phenol-d6

Concen: 49.258 ng

RT: 6.44 min Scan# 740

Delta R.T. 0.00 min

Lab File: BF101608.D

Acq: 21 Dec 2017 15:50

Instrument :

BNA_F

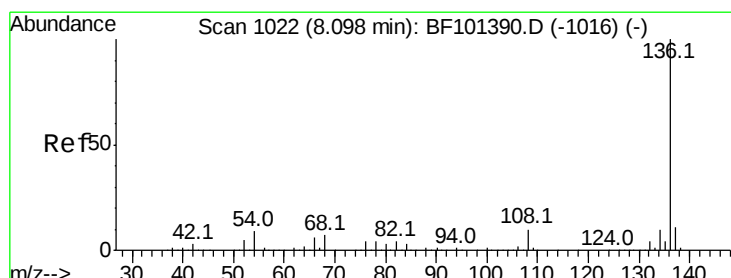
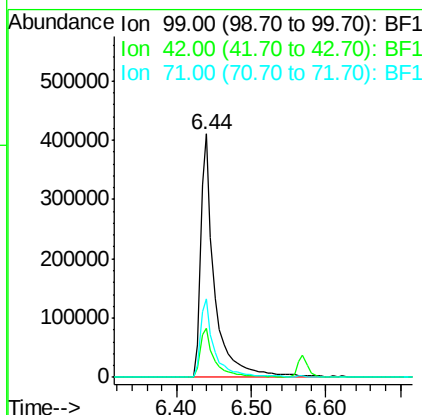
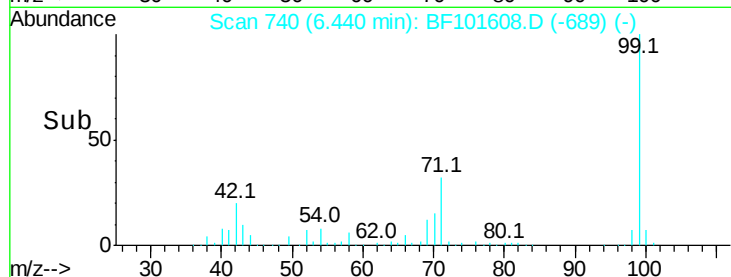
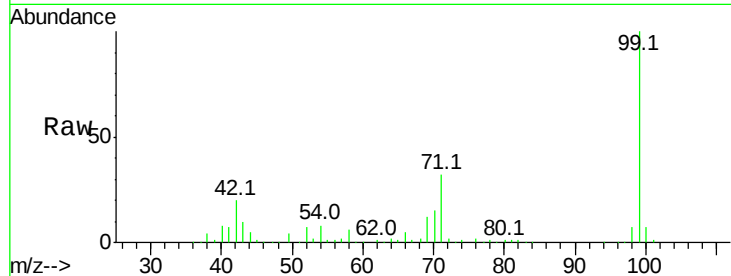
ClientSampleId :

PL-01-121917-D

Tot Ion:	99	Resp:	538075
Ion Ratio	Lower	Upper	
99	100		
42	20.0	14.5	21.7
71	32.4	25.4	38.0

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#21

Naphthalene-d8

Concen: 20.000 ng

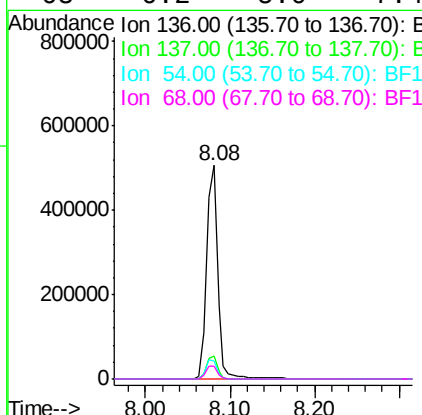
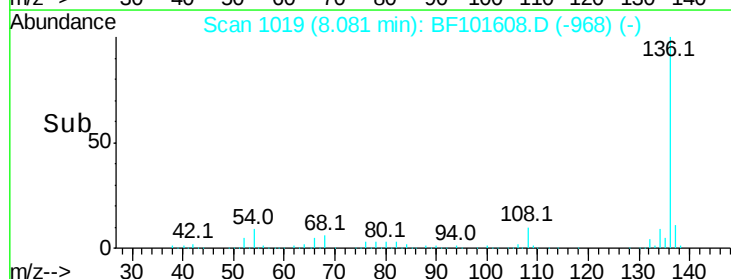
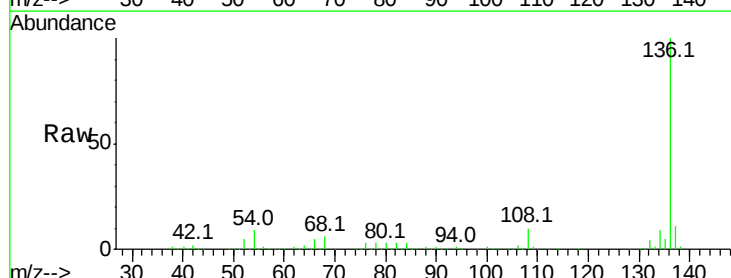
RT: 8.08 min Scan# 1019

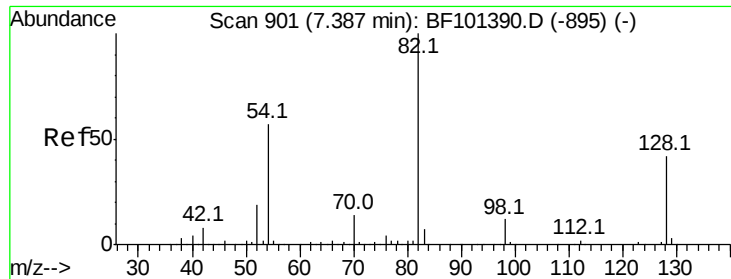
Delta R.T. 0.00 min

Lab File: BF101608.D

Acq: 21 Dec 2017 15:50

Tgt Ion:	136	Resp:	464312
Ion Ratio	Lower	Upper	
136	100		
137	10.7	8.9	13.3
54	8.5	6.6	9.8
68	6.2	5.0	7.4





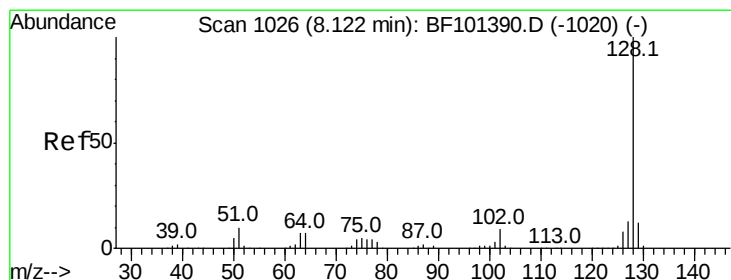
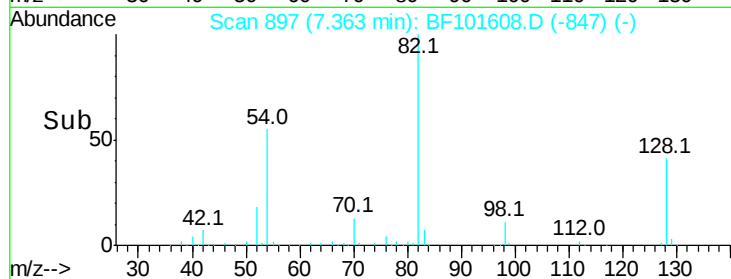
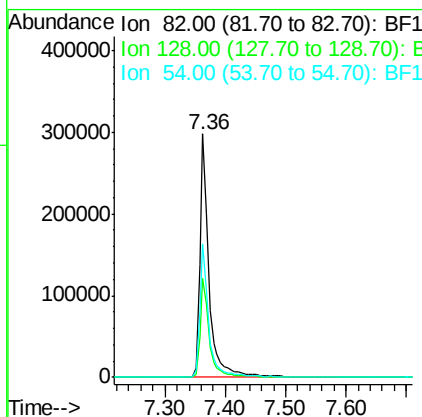
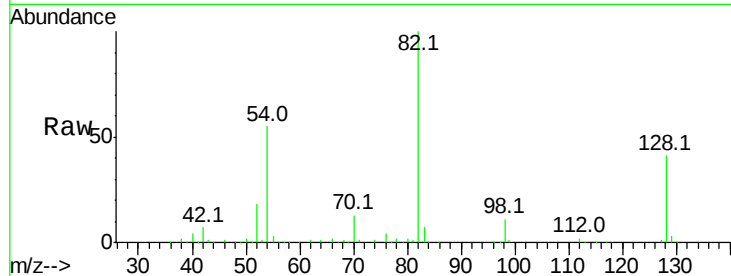
#23
Nitrobenzene-d5
Concen: 38.347 ng
RT: 7.36 min Scan# 897
Delta R.T. -0.01 min
Lab File: BF101608.D
Acq: 21 Dec 2017 15:50

Instrument :
BNA_F
ClientSampled :
PL-01-121917-D

Tot Ion	Ratio	Resp	Lower	Upper
82	100			
128	40.6	36.1	54.1	
54	54.7	41.4	62.2	

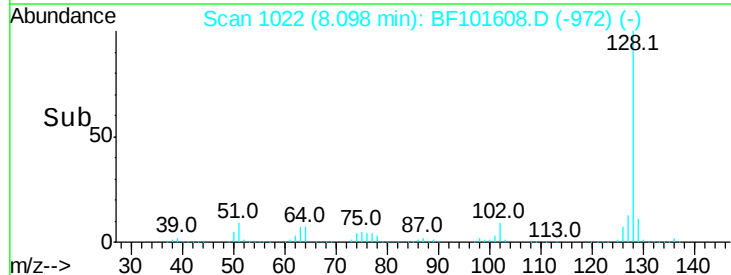
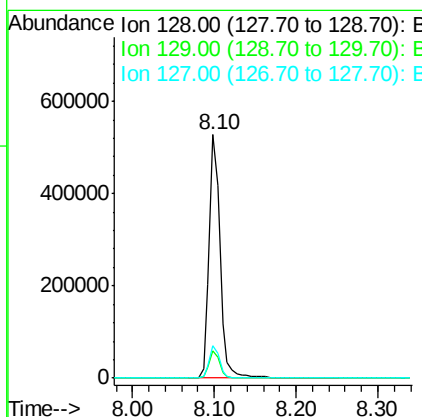
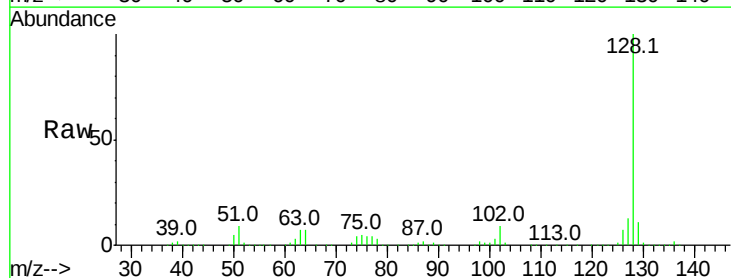
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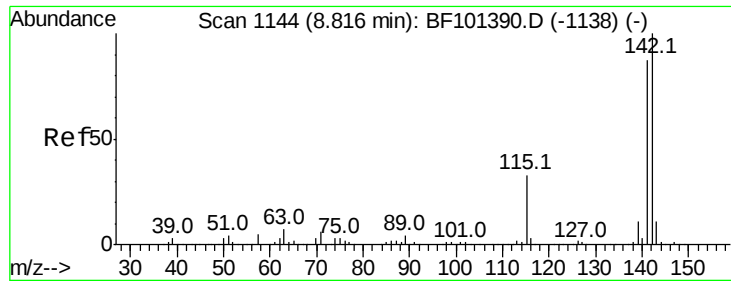
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#31
Naphthalene
Concen: 21.015 ng
RT: 8.10 min Scan# 1022
Delta R.T. -0.01 min
Lab File: BF101608.D
Acq: 21 Dec 2017 15:50

Tgt Ion	Ratio	Resp	Lower	Upper
128	100			
129	11.3	8.8	13.2	
127	13.4	10.9	16.3	





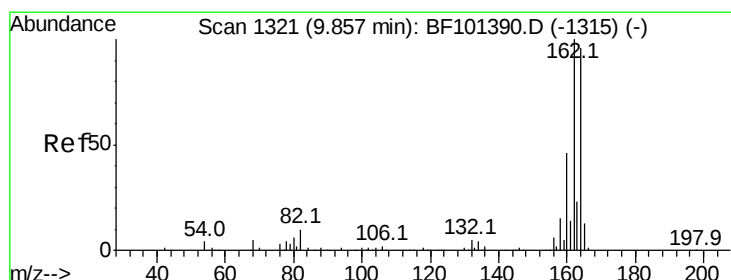
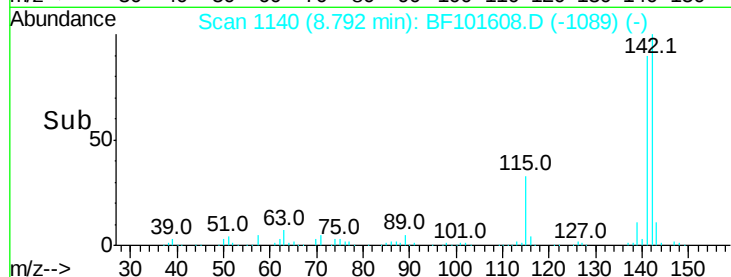
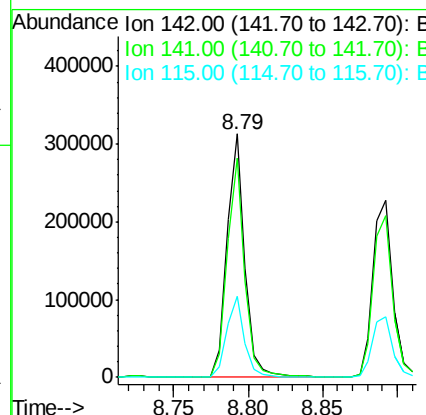
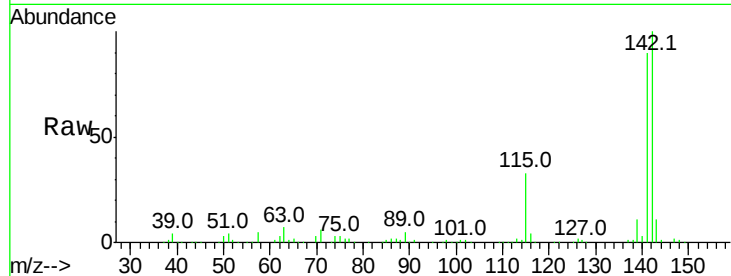
#37
 2-Methylnaphthalene
 Concen: 17.473 ng
 RT: 8.79 min Scan# 1140
 Delta R.T. 0.00 min
 Lab File: BF101608.D
 Acq: 21 Dec 2017 15:50

Instrument :
 BNA_F
 ClientSampleId :
 PL-01-121917-D

Tot Ion	Ratio	Resp	Lower	Upper
142	100	266101		
141	89.8		70.8	106.2
115	33.4		26.1	39.1

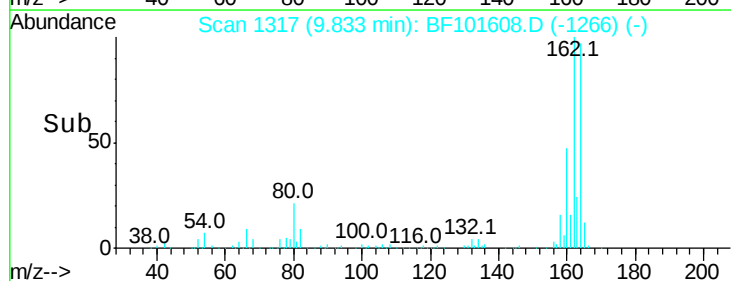
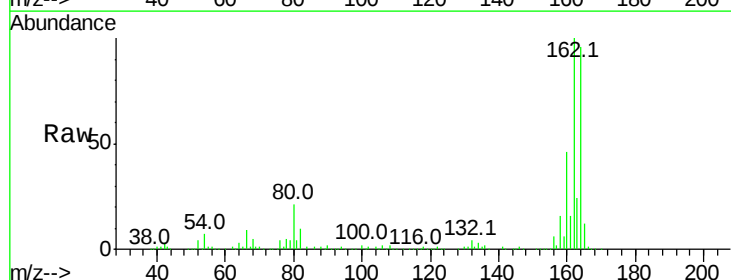
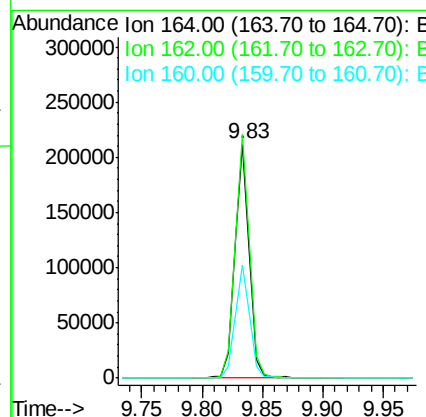
Manual Integrations
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#38
 Acenaphthene-d10
 Concen: 20.000 ng
 RT: 9.83 min Scan# 1317
 Delta R.T. 0.00 min
 Lab File: BF101608.D
 Acq: 21 Dec 2017 15:50

Tgt Ion	Ratio	Resp	Lower	Upper
164	100	175259		
162	104.3		86.1	129.1
160	48.2		38.3	57.5





#41

2,4,6-Tribromophenol

Concen: 45.646 ng

RT: 10.63 min Scan# 1452

Delta R.T. -0.01 min

Lab File: BF101608.D

Acq: 21 Dec 2017 15:50

Instrument :

BNA_F

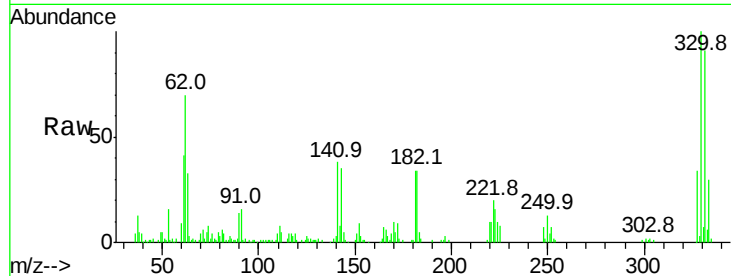
ClientSampled :

PL-01-121917-D

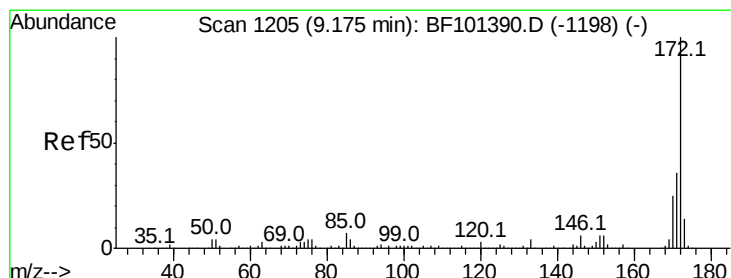
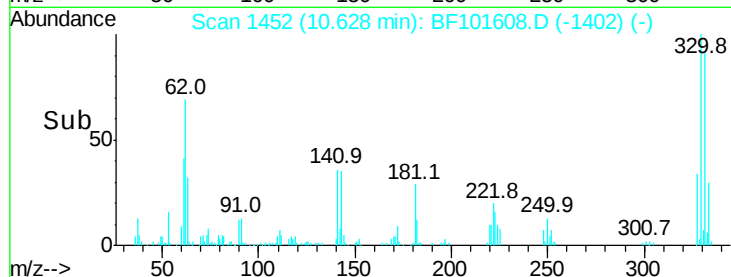
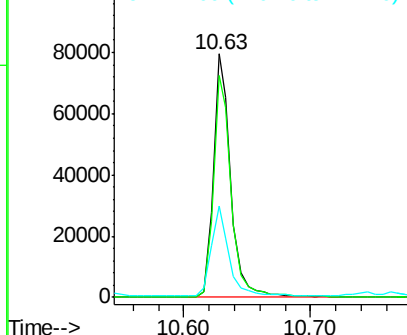
Tot Ion:	330	Resp:	77085
Ion Ratio	Lower	Upper	
330	100		
332	93.6	77.0	115.6
141	37.8	29.9	44.9

Manual Integrations
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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: 41.858 ng

RT: 9.15 min Scan# 1201

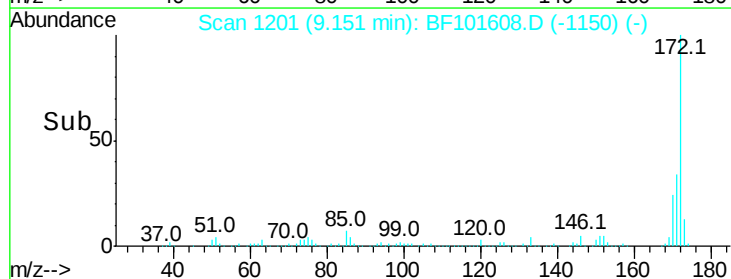
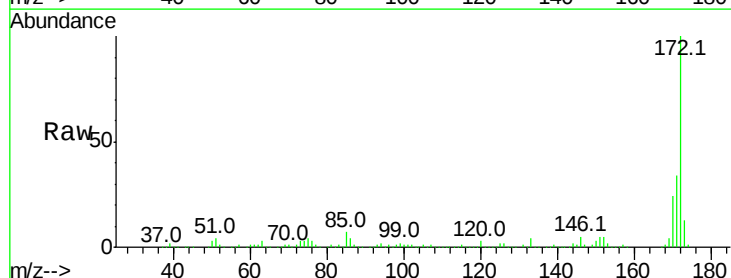
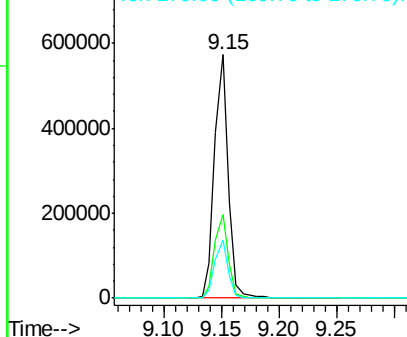
Delta R.T. 0.00 min

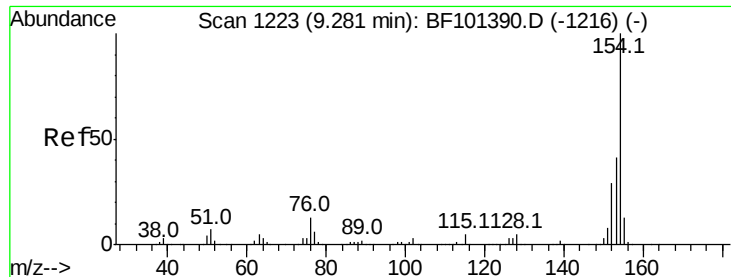
Lab File: BF101608.D

Acq: 21 Dec 2017 15:50

Tgt Ion:	172	Resp:	472907
Ion Ratio	Lower	Upper	
172	100		
171	34.5	29.7	44.5
170	23.8	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: 2.964 ng

RT: 9.25 min Scan# 1218

Delta R.T. -0.01 min

Lab File: BF101608.D

Acq: 21 Dec 2017 15:50

Instrument :

BNA_F

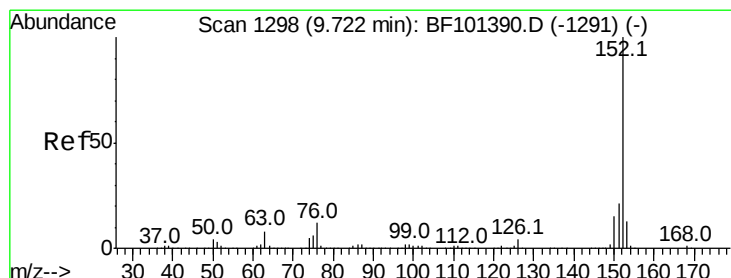
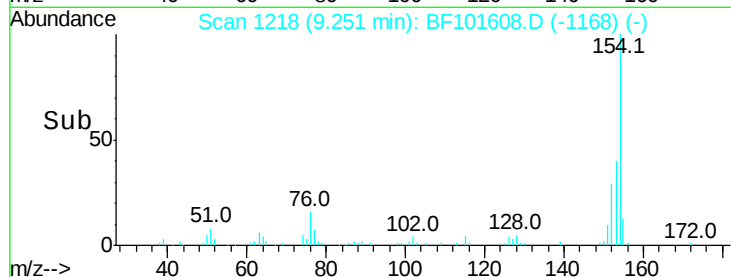
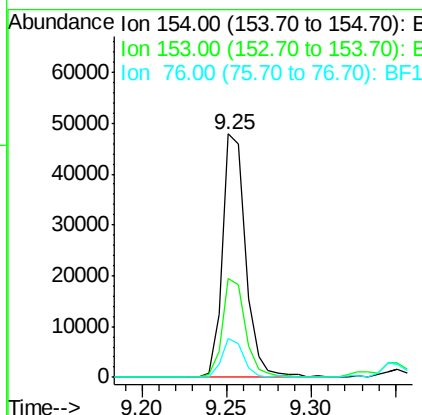
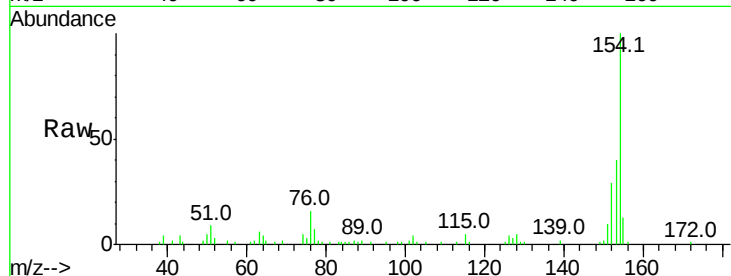
ClientSampleId :

PL-01-121917-D

Tot Ion:	154	Resp:	46072
Ion Ratio	Lower	Upper	
154	100		
153	40.4	21.3	61.3
76	16.1	0.0	34.0

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#48

Acenaphthylene

Concen: 5.075 ng

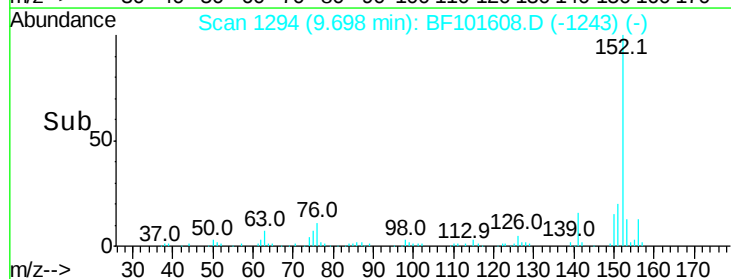
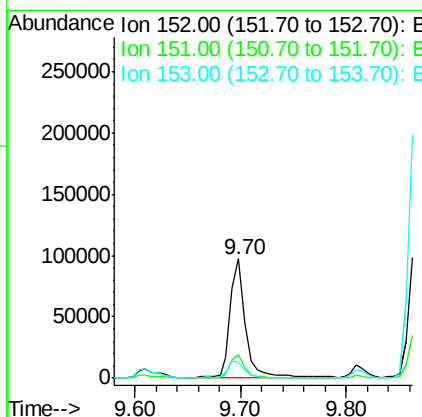
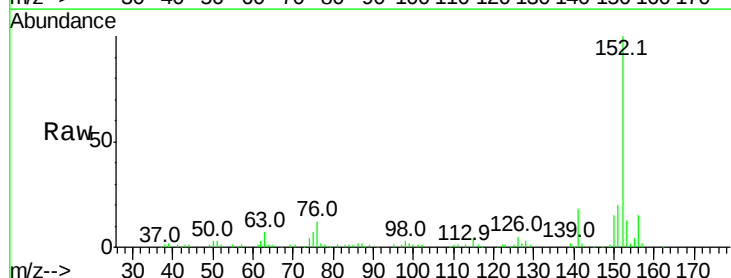
RT: 9.70 min Scan# 1294

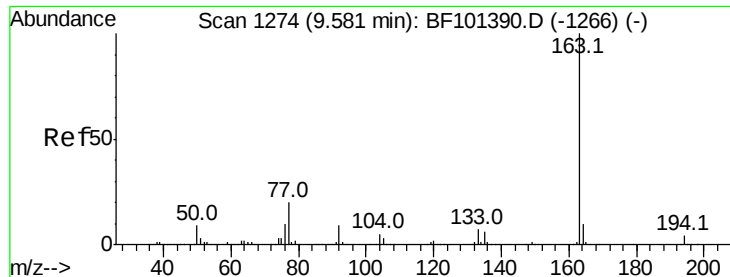
Delta R.T. 0.00 min

Lab File: BF101608.D

Acq: 21 Dec 2017 15:50

Tgt Ion:	152	Resp:	95330
Ion Ratio	Lower	Upper	
152	100		
151	20.1	16.3	24.5
153	13.5	10.7	16.1





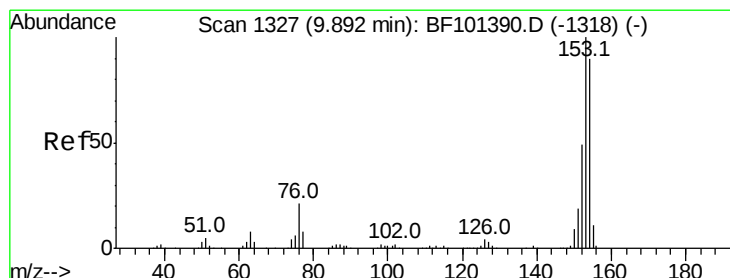
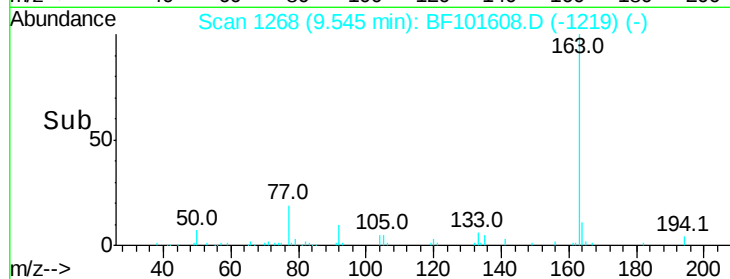
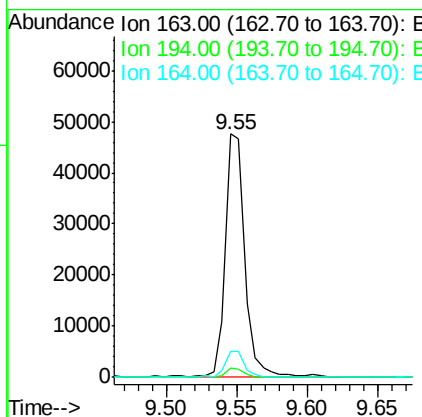
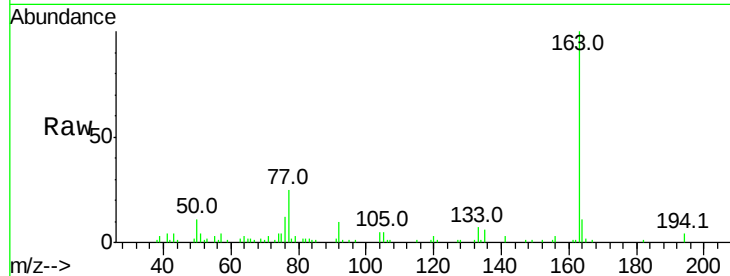
#49
Dimethylphthalate
Concen: 3.268 ng
RT: 9.55 min Scan# 1268
Delta R.T. -0.01 min
Lab File: BF101608.D
Acq: 21 Dec 2017 15:50

Instrument :
BNA_F
ClientSampleId :
PL-01-121917-D

Tot Ion	Ratio	Resp	Lower	Upper
163	100	46067		
194	3.7		2.7	4.1
164	10.8		8.2	12.2

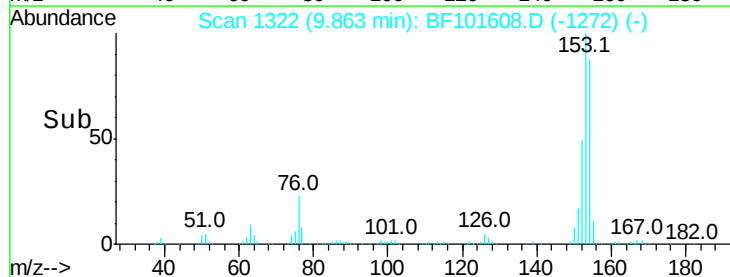
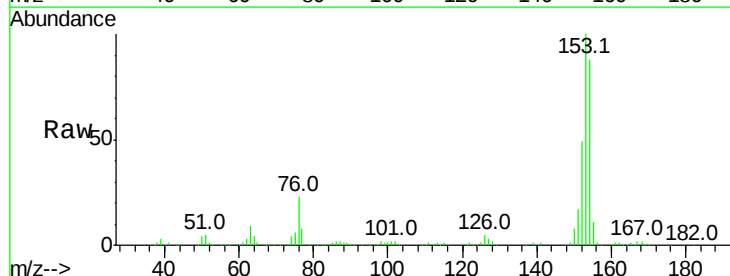
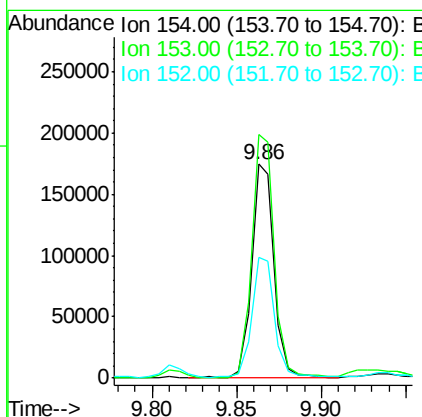
Manual Integrations
APPROVED

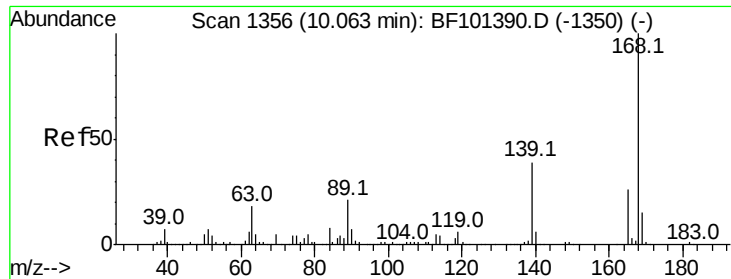
Sohil
12/22/2017 12:41:50 PM



#51
Acenaphthene
Concen: 14.204 ng
RT: 9.86 min Scan# 1322
Delta R.T. -0.01 min
Lab File: BF101608.D
Acq: 21 Dec 2017 15:50

Tgt Ion	Ratio	Resp	Lower	Upper
154	100	160300		
153	113.8		91.2	136.8
152	56.2		43.8	65.8





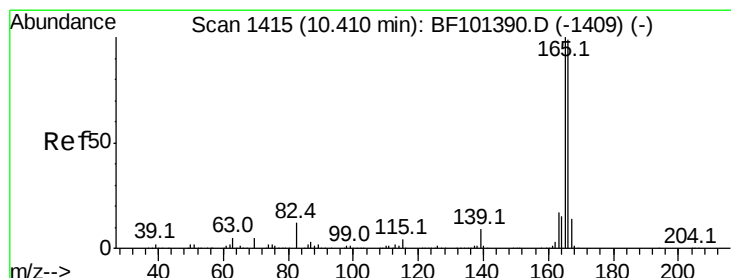
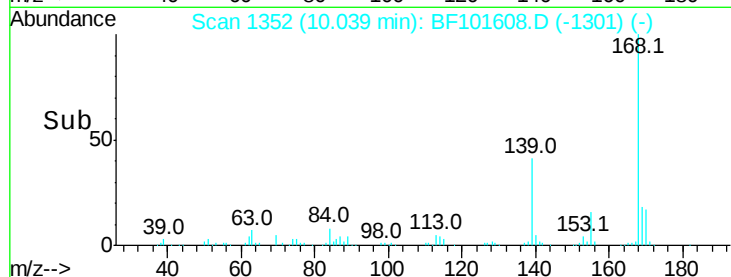
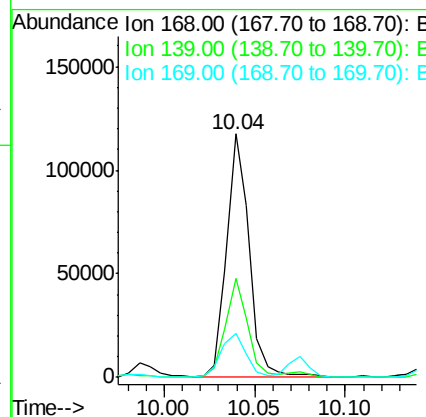
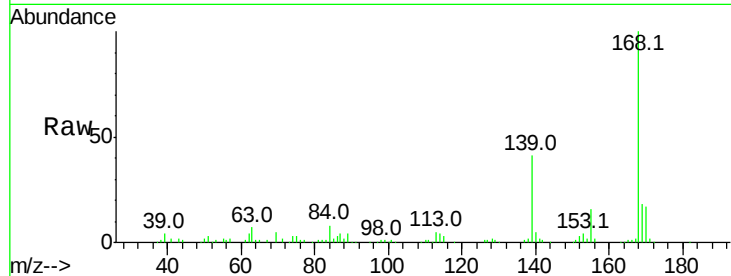
#54
Dibenzenofuran
Concen: 7.033 ng
RT: 10.04 min Scan# 1352
Delta R.T. 0.00 min
Lab File: BF101608.D
Acq: 21 Dec 2017 15:50

Instrument :
BNA_F
ClientSampleId :
PL-01-121917-D

Tot Ion	Ratio	Resp	Lower	Upper
168	100			
139	40.7	30.1	45.1	
169	18.0	10.9	16.3	

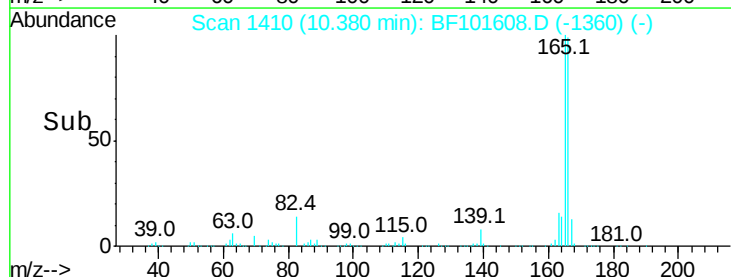
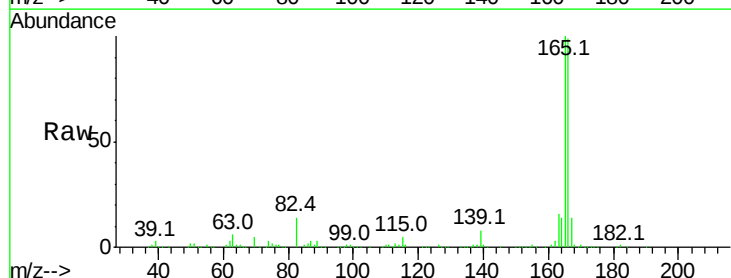
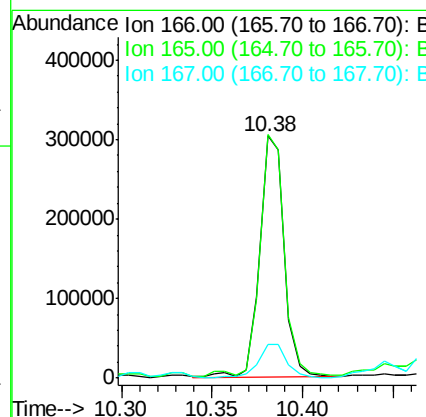
Manual Integrations
APPROVED

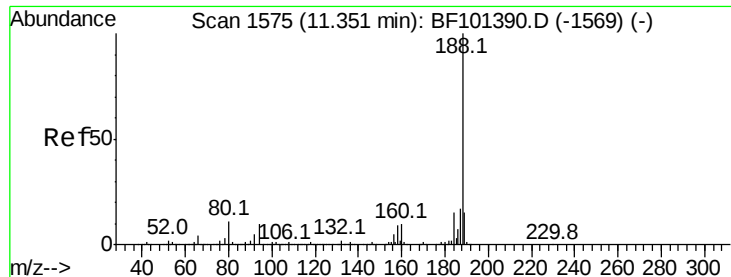
Sohil
12/22/2017 12:41:50 PM



#57
Fluorene
Concen: 23.443 ng
RT: 10.38 min Scan# 1410
Delta R.T. -0.01 min
Lab File: BF101608.D
Acq: 21 Dec 2017 15:50

Tgt Ion	Ratio	Resp	Lower	Upper
166	100			
165	100.7	79.8	119.8	
167	13.8	10.6	16.0	





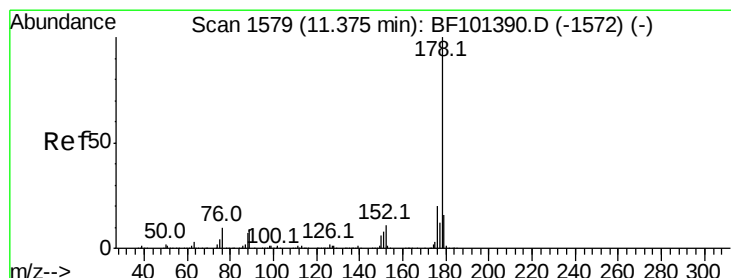
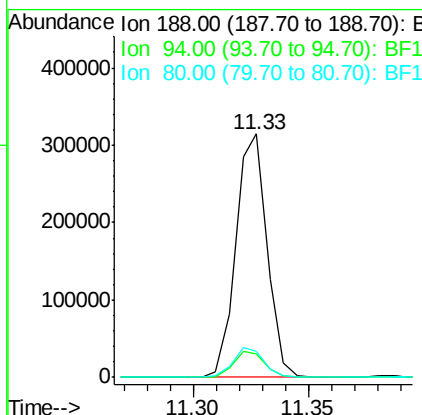
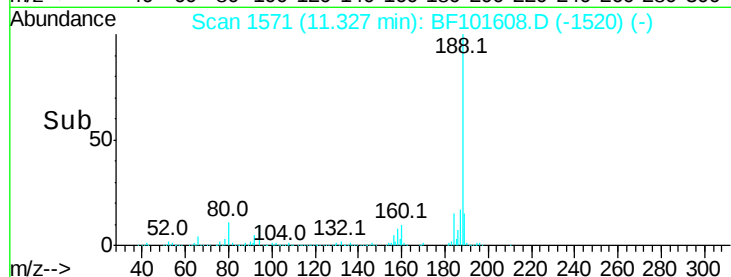
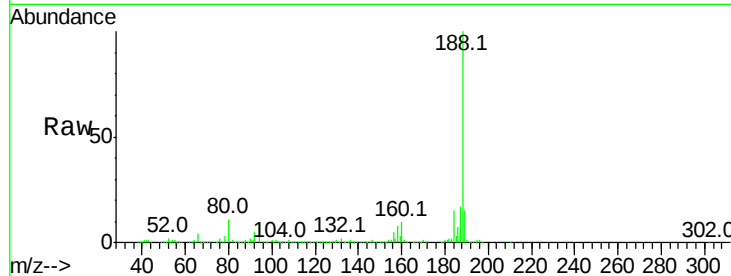
#63
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.33 min Scan# 1571
Delta R.T. 0.00 min
Lab File: BF101608.D
Acq: 21 Dec 2017 15:50

Instrument :
BNA_F
ClientSampleId :
PL-01-121917-D

Tot Ion	Ratio	Resp	Lower	Upper
188	100	295434		
94	9.5		8.5	12.7
80	10.9		9.2	13.8

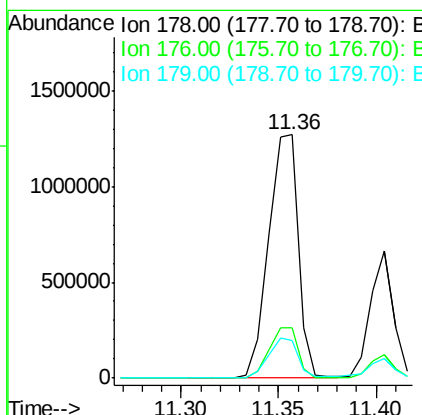
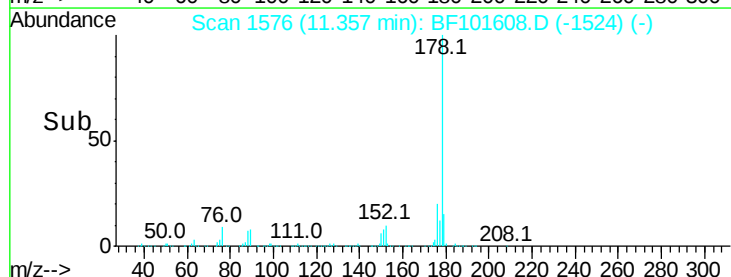
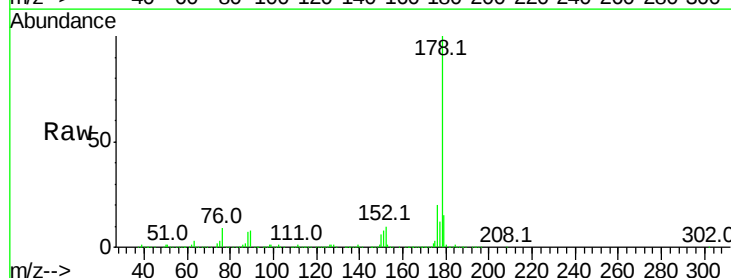
Manual Integrations
APPROVED

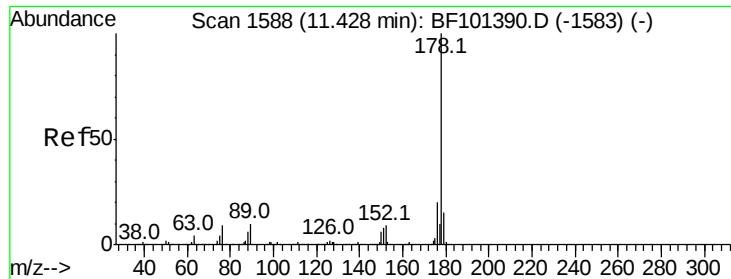
Sohil
12/22/2017 12:41:50 PM



#70
Phenanthrene
Concen: 81.715 ng
RT: 11.36 min Scan# 1576
Delta R.T. 0.01 min
Lab File: BF101608.D
Acq: 21 Dec 2017 15:50

Tgt Ion	Ratio	Resp	Lower	Upper
178	100	1342543		
176	20.5		15.8	23.8
179	15.4		13.0	19.6





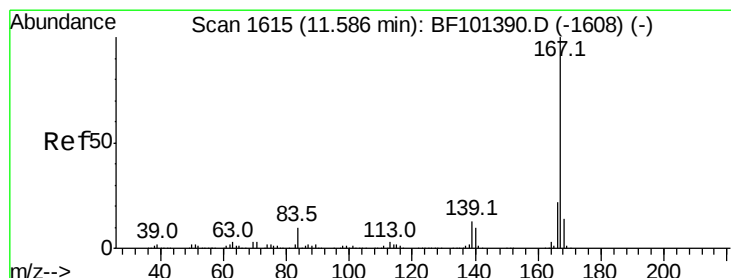
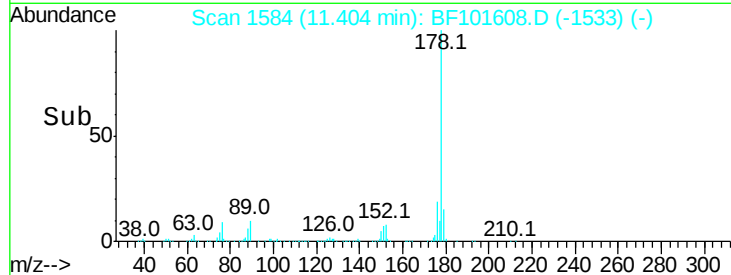
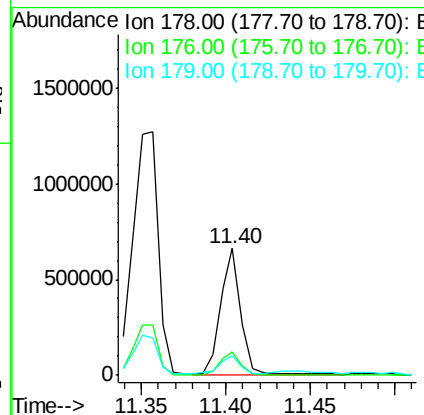
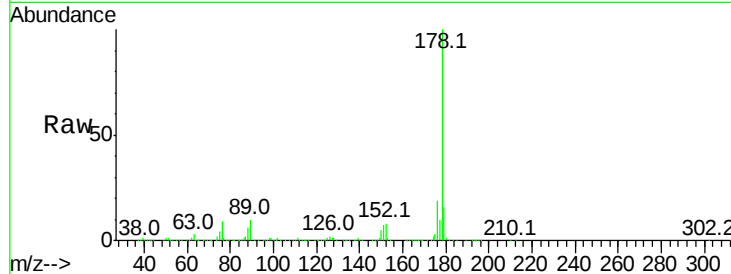
#71
 Anthracene
 Concen: 33.020 ng
 RT: 11.40 min Scan# 1584
 Delta R.T. 0.00 min
 Lab File: BF101608.D
 Acq: 21 Dec 2017 15:50

Instrument :
 BNA_F
 ClientSampleId :
 PL-01-121917-D

Tot Ion	Ratio	Lower	Upper
178	100		
176	18.9	15.4	23.2
179	15.5	12.6	19.0

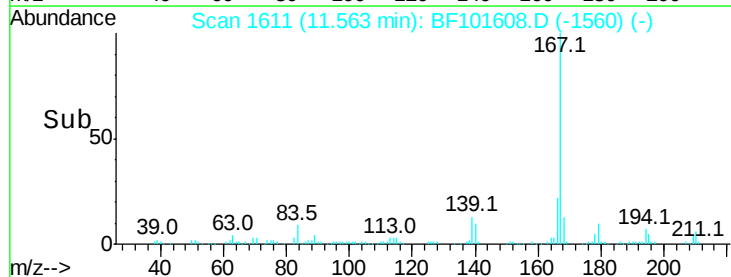
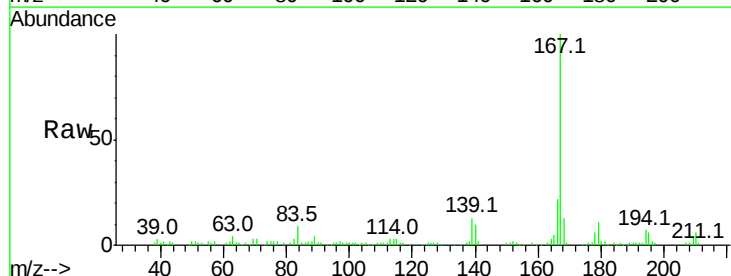
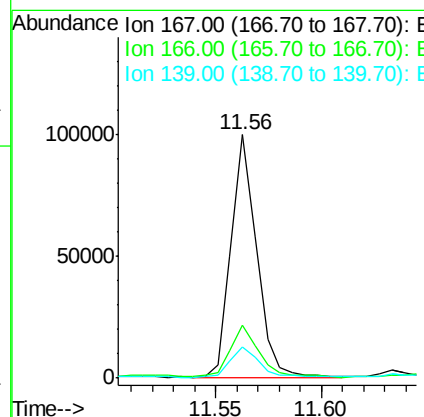
Manual Integrations
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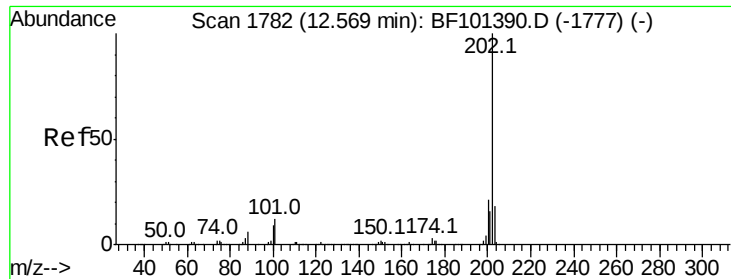
Sohil
 12/22/2017 12:41:50 PM



#72
 Carbazole
 Concen: 5.290 ng
 RT: 11.56 min Scan# 1611
 Delta R.T. 0.00 min
 Lab File: BF101608.D
 Acq: 21 Dec 2017 15:50

Tgt Ion	Ratio	Lower	Upper
167	100		
166	22.0	17.6	26.4
139	12.9	10.9	16.3





#74

Fluoranthene

Concen: 84.214 ng

RT: 12.55 min Scan# 1779

Delta R.T. 0.01 min

Lab File: BF101608.D

Acq: 21 Dec 2017 15:50

Instrument :

BNA_F

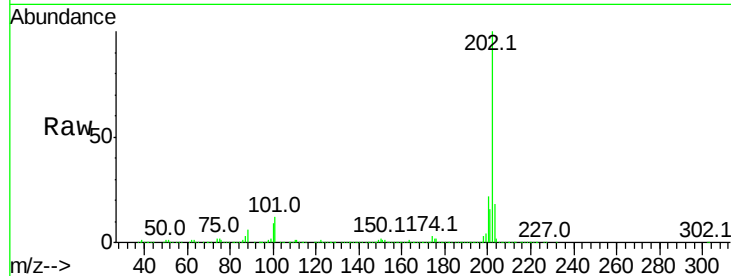
ClientSampleId :

PL-01-121917-D

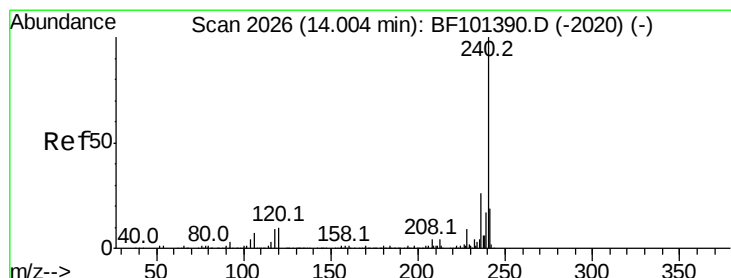
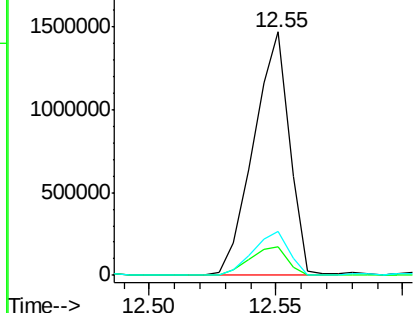
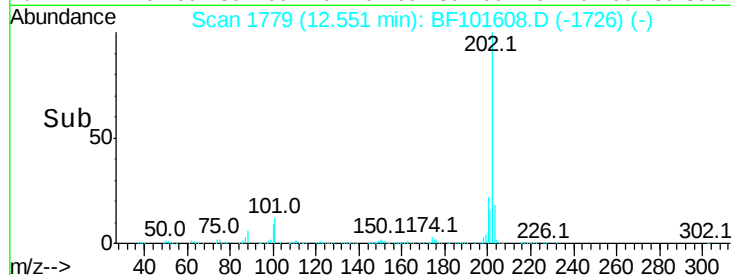
Tot Ion:	202	Resp:	1452278
Ion	Ratio	Lower	Upper
202	100		
101	11.9	0.0	34.1
203	18.0	0.0	38.1

Manual Integrations
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Abundance Ion 202.00 (201.70 to 202.70): E
2000000
Ion 101.00 (100.70 to 101.70): E
Ion 203.00 (202.70 to 203.70): E



#75

Chrysene-d12

Concen: 20.000 ng

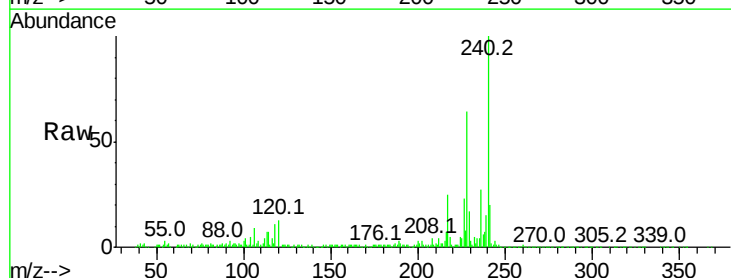
RT: 13.98 min Scan# 2022

Delta R.T. 0.01 min

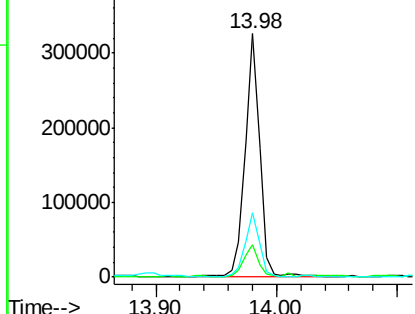
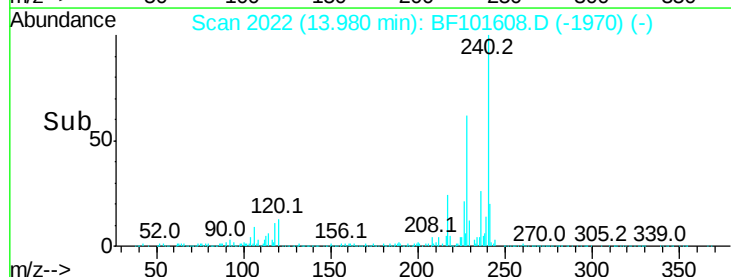
Lab File: BF101608.D

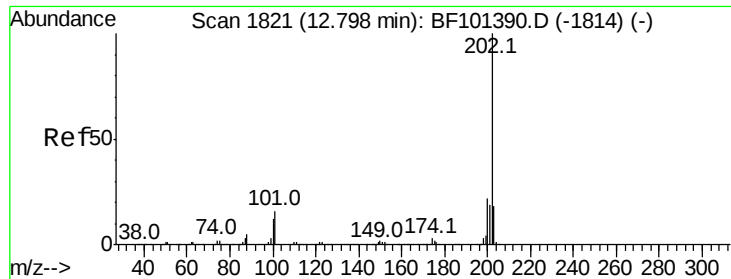
Acq: 21 Dec 2017 15:50

Tgt Ion:	240	Resp:	274119
Ion	Ratio	Lower	Upper
240	100		
120	13.5	9.5	14.3
236	26.5	20.7	31.1



Abundance Ion 240.00 (239.70 to 240.70): E
400000
Ion 120.00 (119.70 to 120.70): E
Ion 236.00 (235.70 to 236.70): E





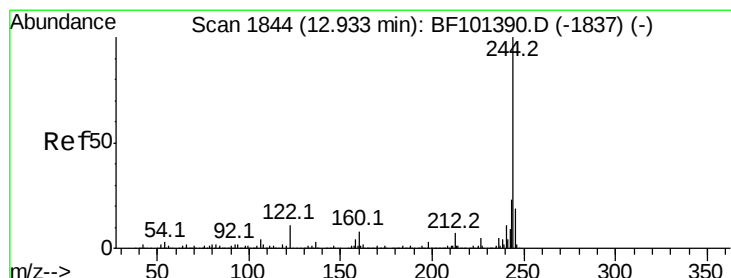
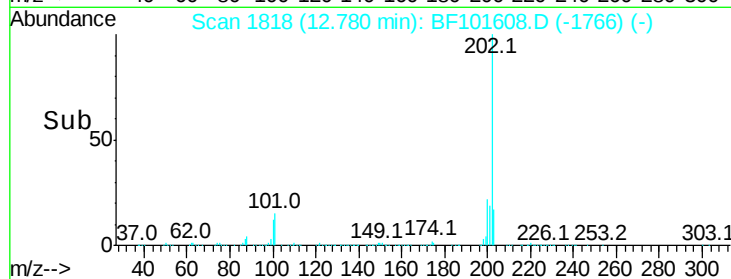
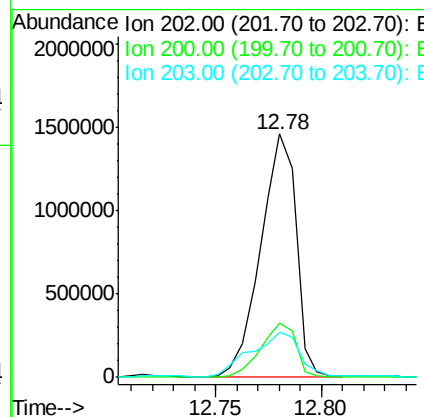
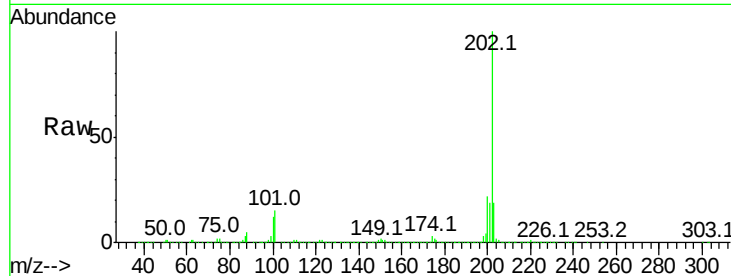
#77
Pvrene
Concen: 83.023 ng
RT: 12.78 min Scan# 1818
Delta R.T. 0.01 min
Lab File: BF101608.D
Acq: 21 Dec 2017 15:50

Instrument :
BNA_F
ClientSampleId :
PL-01-121917-D

Tot Ion:202 Resp: 1707993
Ion Ratio Lower Upper
202 100
200 22.3 17.4 26.2
203 18.6 14.3 21.5

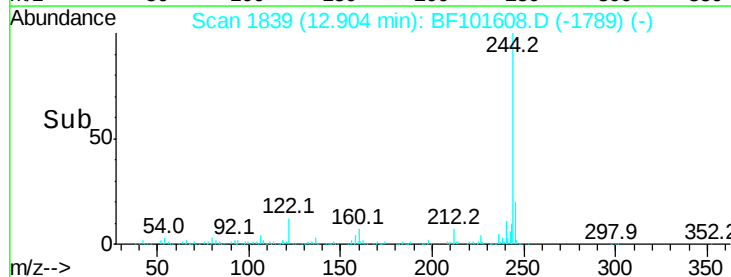
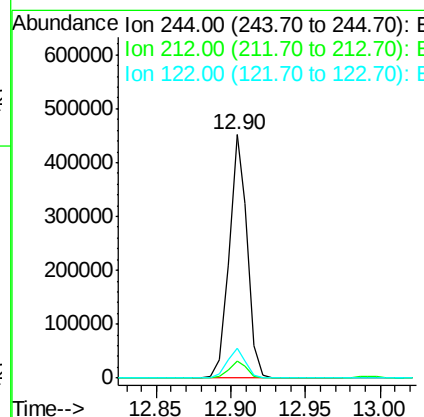
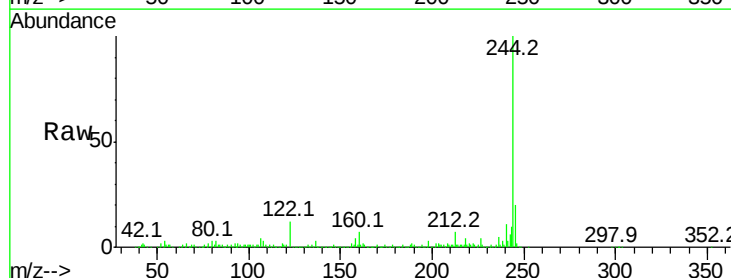
Manual Integrations
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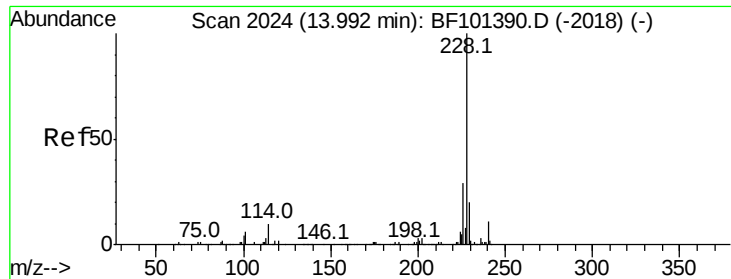
Sohil
12/22/2017 12:41:50 PM



#78
Terphenyl-d14
Concen: 33.940 ng
RT: 12.90 min Scan# 1839
Delta R.T. -0.01 min
Lab File: BF101608.D
Acq: 21 Dec 2017 15:50

Tgt Ion:244 Resp: 385914
Ion Ratio Lower Upper
244 100
212 6.9 5.4 8.0
122 12.5 11.0 16.4





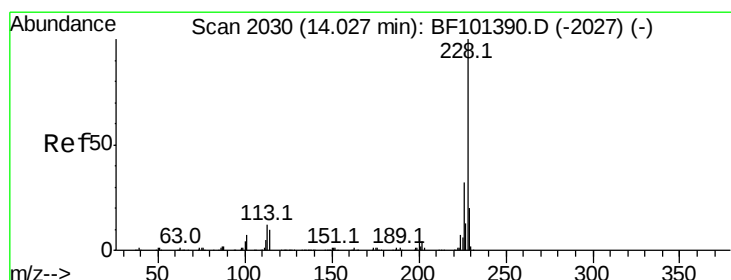
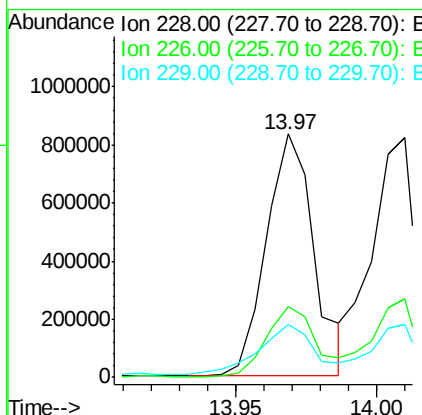
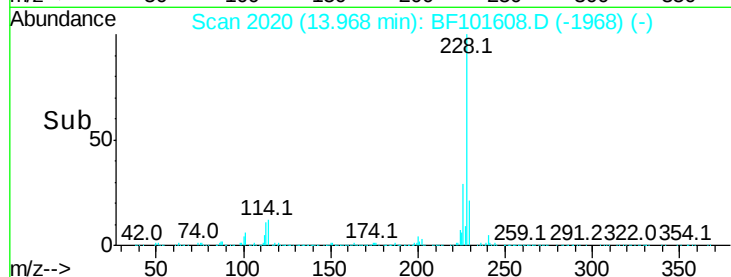
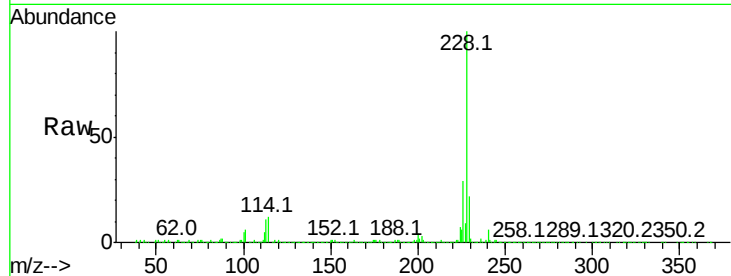
#80
Benzo(a)anthracene
Concen: 53.915 ng
RT: 13.97 min Scan# 2020
Delta R.T. 0.01 min
Lab File: BF101608.D
Acq: 21 Dec 2017 15:50

Instrument :
BNA_F
ClientSampleId :
PL-01-121917-D

Tot Ion	Ratio	Lower	Upper
228	100		
226	29.1	22.6	33.8
229	21.9	15.8	23.6

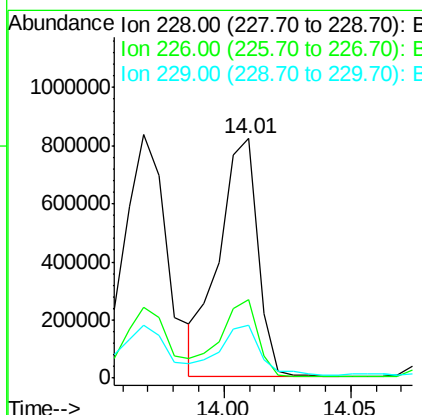
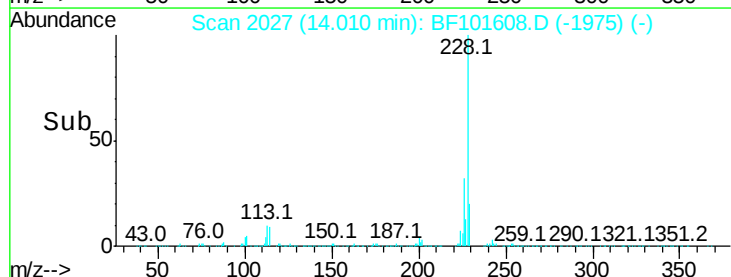
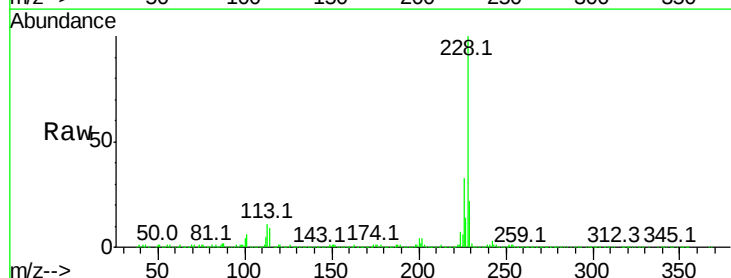
Manual Integrations
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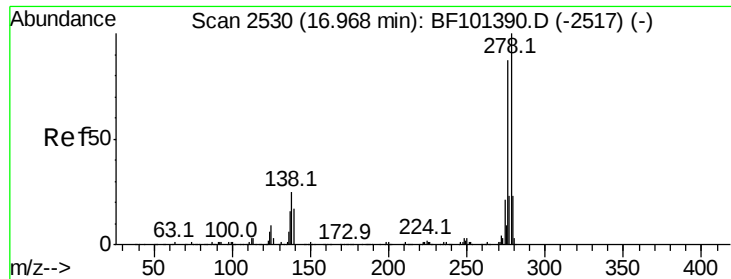
Sohil
12/22/2017 12:41:50 PM



#82
Chrysene
Concen: 51.103 ng
RT: 14.01 min Scan# 2027
Delta R.T. 0.01 min
Lab File: BF101608.D
Acq: 21 Dec 2017 15:50

Tgt Ion	Ratio	Lower	Upper
228	100		
226	32.9	25.0	37.6
229	22.3	16.2	24.4





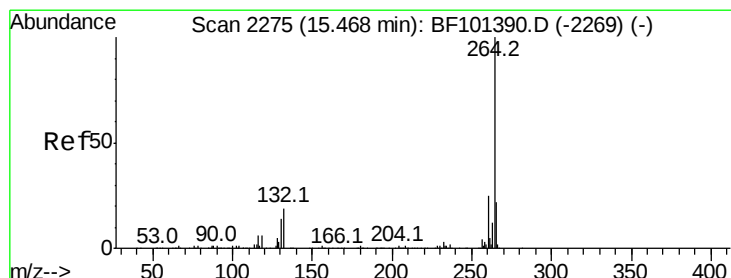
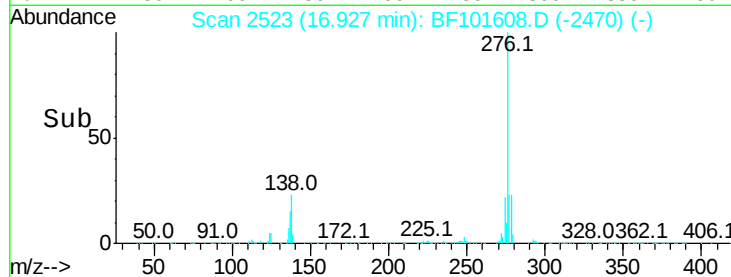
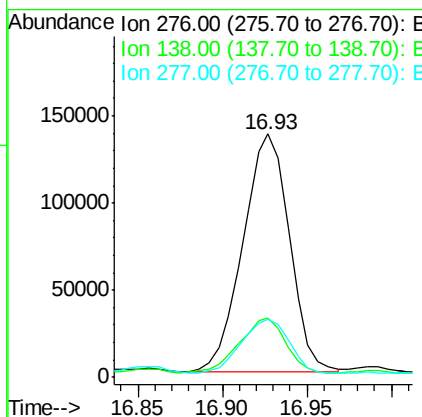
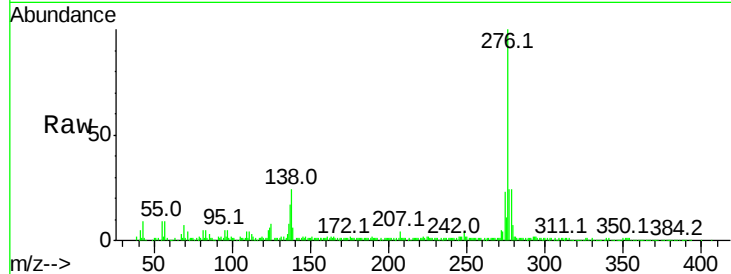
#85
Indeno(1,2,3-cd)pyrene
Concen: 17.125 ng
RT: 16.93 min Scan# 2523
Delta R.T. 0.01 min
Lab File: BF101608.D
Acq: 21 Dec 2017 15:50

Instrument :
BNA_F
ClientSampled :
PL-01-121917-D

Tot Ion	Ratio	Resp	Lower	Upper
276	100	260625		
138	24.0	25.0	37.6#	
277	24.9	20.1	30.1	

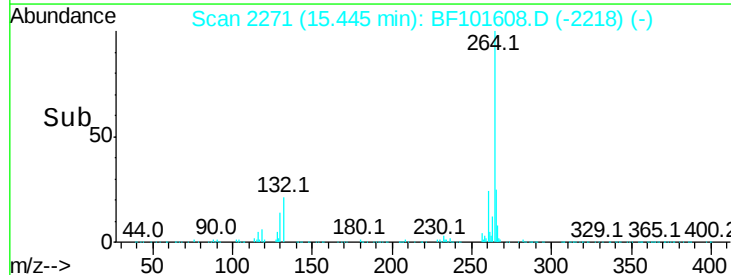
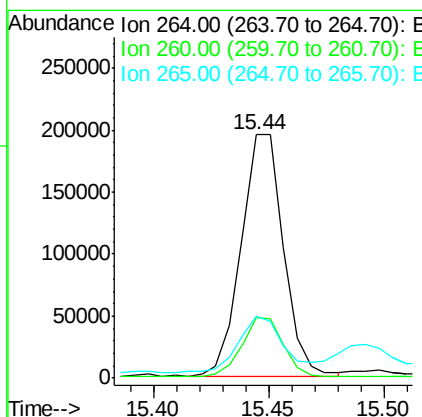
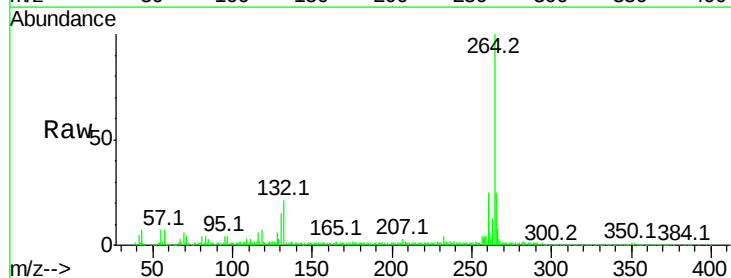
Manual Integrations
APPROVED

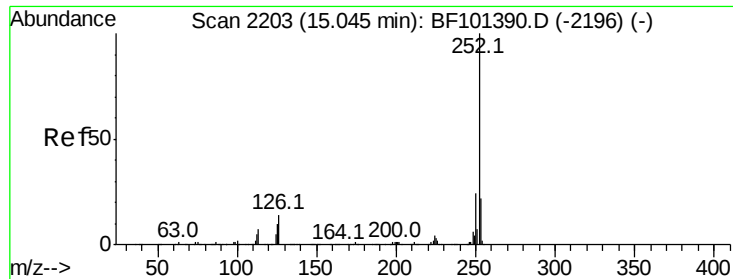
Sohil
12/22/2017 12:41:50 PM



#86
Perylene-d12
Concen: 20.000 ng
RT: 15.44 min Scan# 2271
Delta R.T. 0.01 min
Lab File: BF101608.D
Acq: 21 Dec 2017 15:50

Tgt Ion	Ratio	Resp	Lower	Upper
264	100	249811		
260	24.6	19.2	28.8	
265	25.4	17.5	26.3	





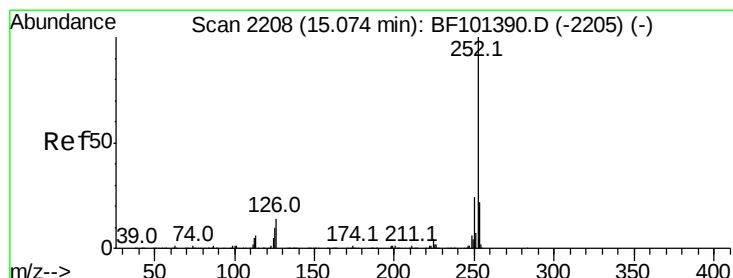
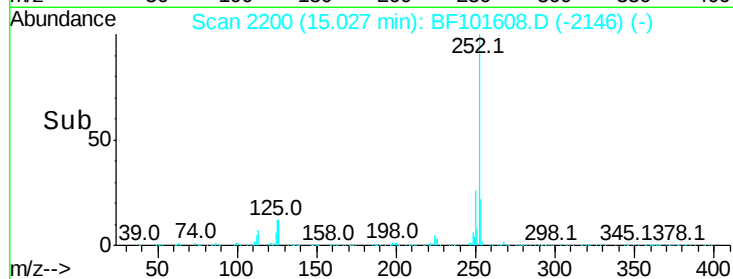
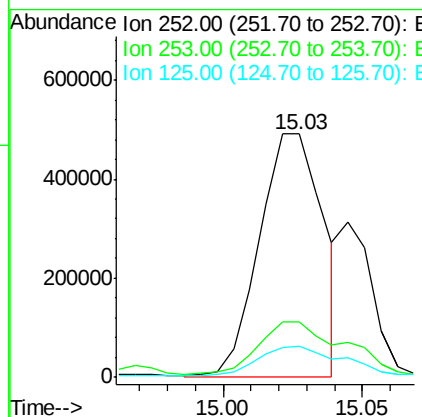
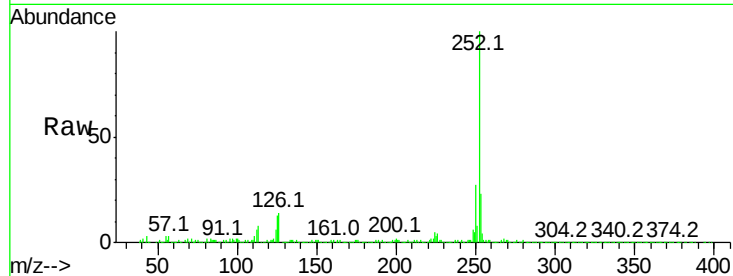
#87
Benzo(b)fluoranthene
Concen: 51.656 ng m
RT: 15.03 min Scan# 2200
Delta R.T. 0.02 min
Lab File: BF101608.D
Acq: 21 Dec 2017 15:50

Instrument :
BNA_F
ClientSampleId :
PL-01-121917-D

Tot Ion	Ratio	Lower	Upper
252	100		
253	22.9	17.0	25.6
125	12.8	9.0	13.6

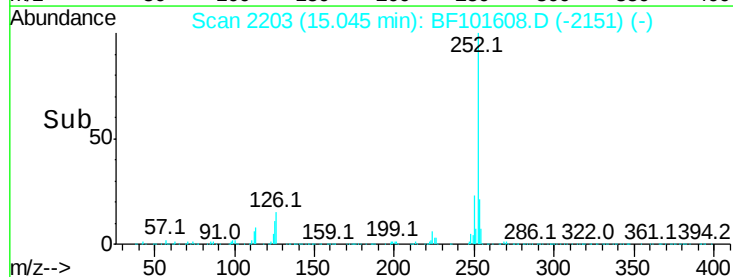
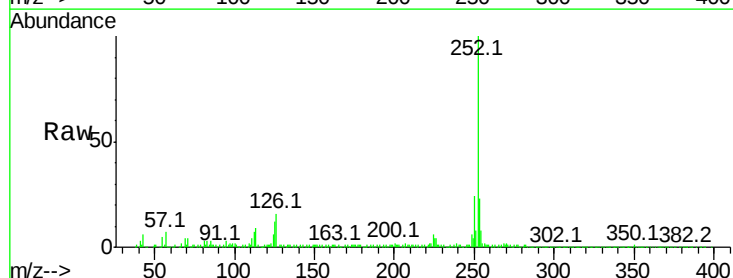
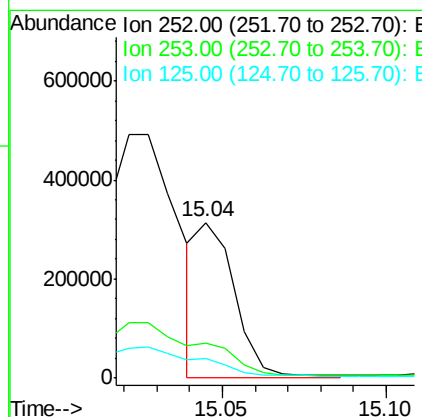
Manual Integrations
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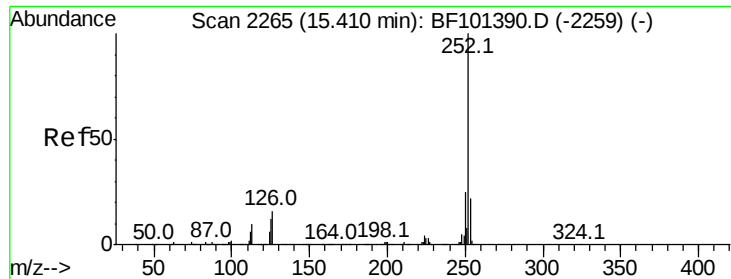
Sohil
12/22/2017 12:41:50 PM



#88
Benzo(k)fluoranthene
Concen: 17.154 ng m
RT: 15.04 min Scan# 2203
Delta R.T. 0.01 min
Lab File: BF101608.D
Acq: 21 Dec 2017 15:50

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.5	17.9	26.9
125	12.3	10.2	15.2





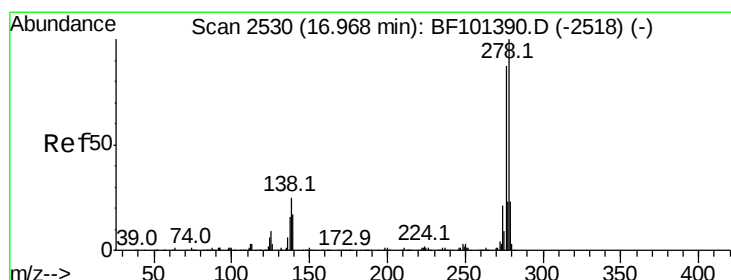
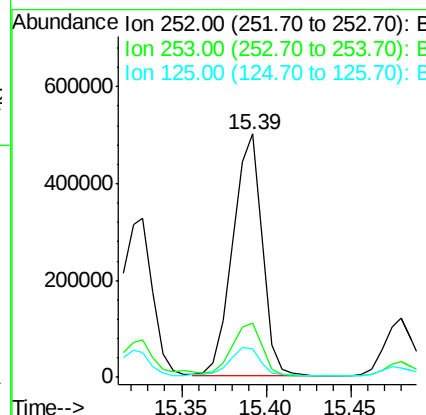
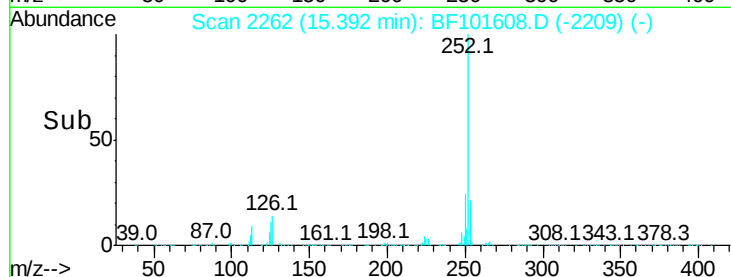
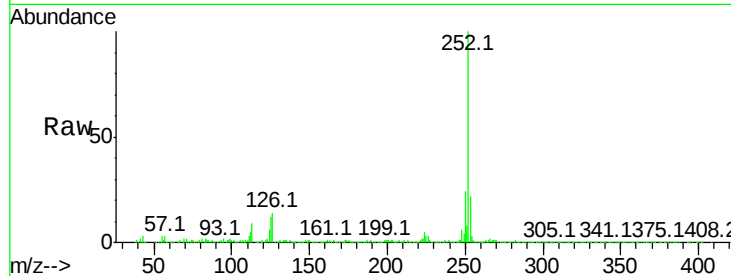
#89
Benzo(a)pyrene
Concen: 43.179 ng
RT: 15.39 min Scan# 2262
Delta R.T. 0.01 min
Lab File: BF101608.D
Acq: 21 Dec 2017 15:50

Instrument :
BNA_F
ClientSampleId :
PL-01-121917-D

Tot Ion	Ratio	Lower	Upper
252	100		
253	22.4	17.1	25.7
125	11.7	9.8	14.6

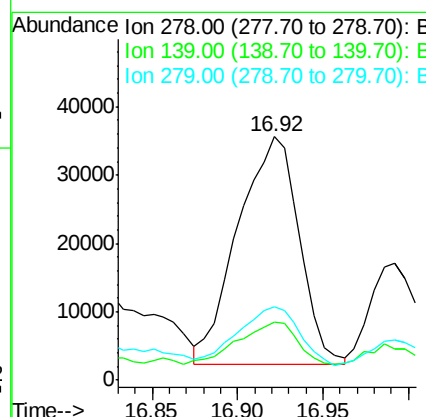
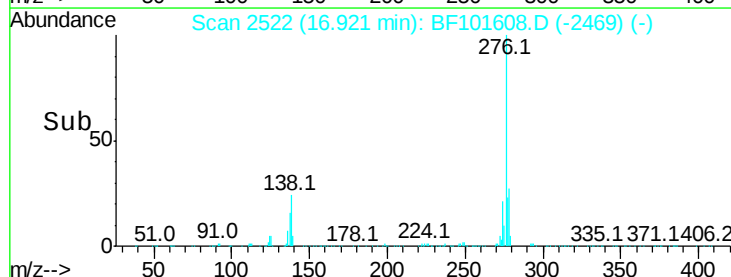
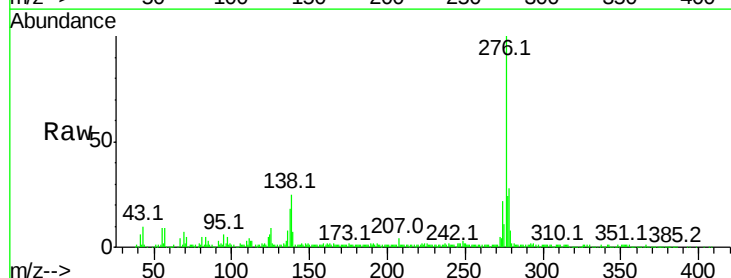
Manual Integrations
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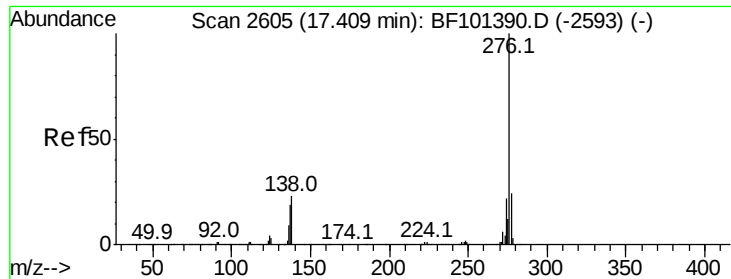
Sohil
12/22/2017 12:41:50 PM



#90
Dibenzo(a,h)anthracene
Concen: 6.884 ng m
RT: 16.92 min Scan# 2522
Delta R.T. 0.01 min
Lab File: BF101608.D
Acq: 21 Dec 2017 15:50

Tgt Ion	Ratio	Lower	Upper
278	100		
139	23.7	15.9	23.9
279	30.3	19.0	28.4#





#91
 Benzo(a,h,i)perylene
 Concen: 23.766 ng
 RT: 17.38 min Scan# 2600
 Delta R.T. 0.03 min
 Lab File: BF101608.D
 Acq: 21 Dec 2017 15:50

Instrument :
 BNA_F
 ClientSampleId :
 PL-01-121917-D

Tot Ion	Ratio	Lower	Upper
276	100		
277	26.7	17.9	26.9
138	25.0	21.8	32.8

Manual Integrations
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