

Data Path : Z:\HPCHEM1\BNA F\DATA\BF041218\
 Data File : BF104456.D
 Acq On : 12 Apr 2018 17:35
 Operator : JU/SJ
 Sample : J2163-03 2X
 Misc :
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 PL-01-041118-B

Manual Integrations
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 4/13/2018 4:44:11 PM

Quant Time: Apr 13 00:32:29 2018
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF040618.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Apr 12 17:07:03 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.81	152	135641	20.00	ng	0.00
21) Naphthalene-d8	8.09	136	538084	20.00	ng	0.00
38) Acenaphthene-d10	9.85	164	220018	20.00	ng	0.00
63) Phenanthrene-d10	11.35	188	322630	20.00	ng	0.00
75) Chrysene-d12	14.00	240	216531	20.00	ng	0.00
86) Perylene-d12	15.46	264	194785	20.00	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.42	112	449991	50.73	ng	0.00
7) Phenol-d6	6.43	99	533464	48.94	ng	-0.01
23) Nitrobenzene-d5	7.37	82	312993	37.98	ng	-0.01
41) 2,4,6-Tribromophenol	10.64	330	94529	41.42	ng	0.00
44) 2-Fluorobiphenyl	9.17	172	520813	37.39	ng	0.00
78) Terphenyl-d14	12.93	244	369783	38.93	ng	0.00
Target Compounds						Qvalue
10) Phenol	6.45	94	28030	2.424	ng	96
31) Naphthalene	8.12	128	312080	11.648	ng	99
37) 2-Methylnaphthalene	8.80	142	335555	19.361	ng	98
45) 1,1'-Biphenyl	9.27	154	93335	5.050	ng	97
48) Acenaphthylene	9.71	152	124596	5.440	ng	# 91
49) Dimethylphthalate	9.56	163	38679	2.229	ng	99
51) Acenaphthene	9.89	154	395817	28.322	ng	97
54) Dibenzofuran	10.06	168	257208	13.206	ng	# 97
57) Fluorene	10.40	166	740815	52.257	ng	99
70) Phenanthrene	11.38	178	2956690	164.562	ng	99
71) Anthracene	11.43	178	1274391	69.777	ng	100
72) Carbazole	11.57	167	116686	6.538	ng	98
74) Fluoranthene	12.57	202	2641618	140.720	ng	98
77) Pyrene	12.81	202	2920979	181.992	ng	97
80) Benzo(a)anthracene	13.99	228	1669559	129.065	ng	97
82) Chrysene	14.03	228	1529275	115.095	ng	97
85) Indeno(1,2,3-cd)pyrene	16.93	276	498134m	44.133	ng	
87) Benzo(b)fluoranthene	15.04	252	1323261m	107.562	ng	
88) Benzo(k)fluoranthene	15.07	252	325162m	27.996	ng	
89) Benzo(a)pyrene	15.41	252	1000970	90.935	ng	97
90) Dibenzo(a,h)anthracene	16.93	278	142679	15.782	ng	97
91) Benzo(g,h,i)perylene	17.37	276	509634	58.186	ng	96

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

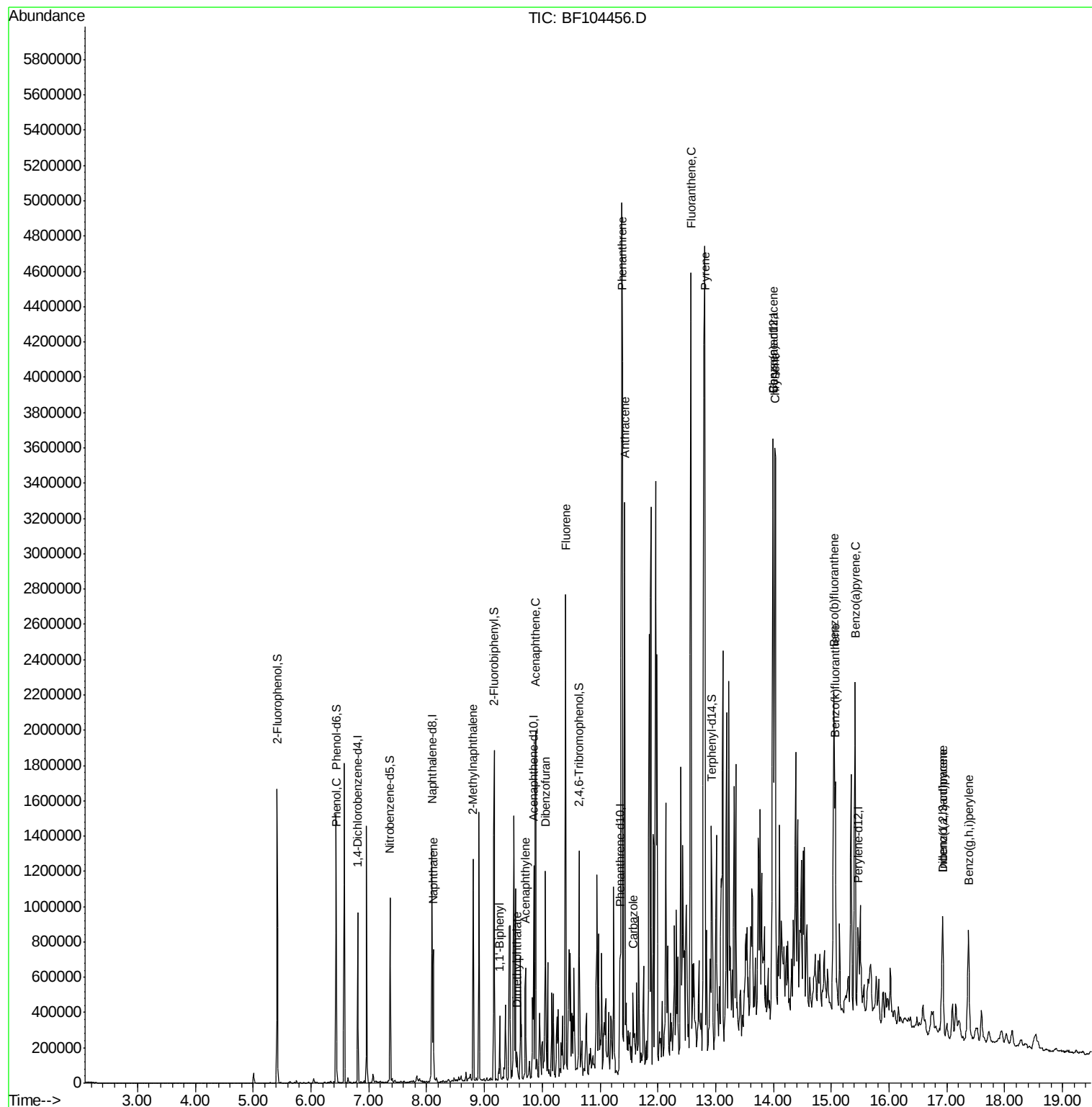
Data Path : Z:\HPCHEM1\BNA F\DATA\BF041218\
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Operator : JU/SJ
Sample : J2163-03 2X
Misc :
ALS Vial : 12 Sample Multiplier: 1

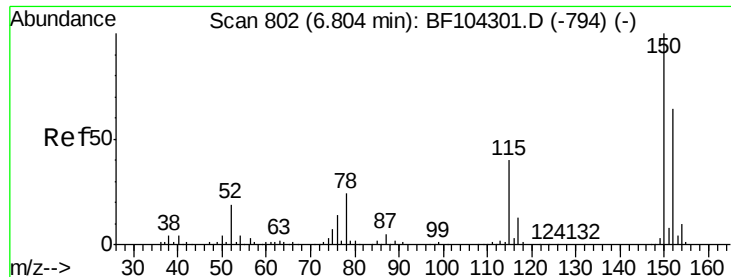
Instrument :
BNA_F
ClientSampleId :
PL-01-041118-B

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Quant Time: Apr 13 00:32:29 2018
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF040618.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
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#1

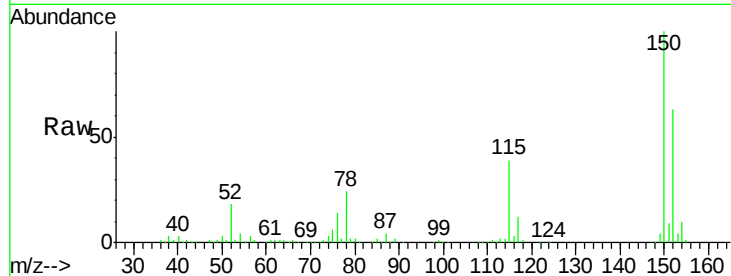
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.81 min Scan# 803
Delta R.T. 0.00 min
Lab File: BF104456.D
Acq: 12 Apr 2018 17:35

Instrument :
BNA_F
ClientSampleId :
PL-01-041118-B

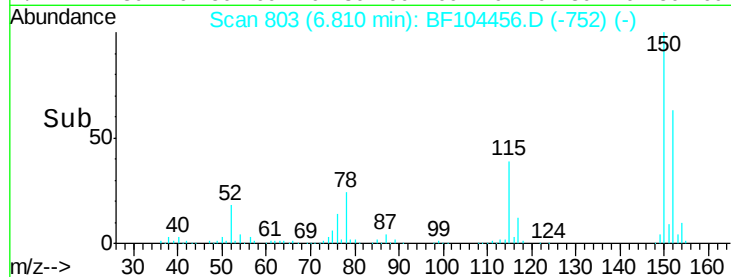
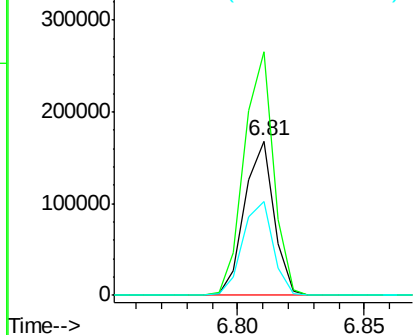
Tot Ion	Ratio	Lower	Upper
152	100		
150	157.6	124.6	186.8
115	61.0	50.1	75.1

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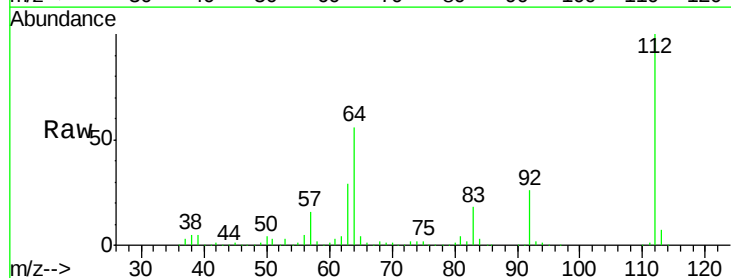
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



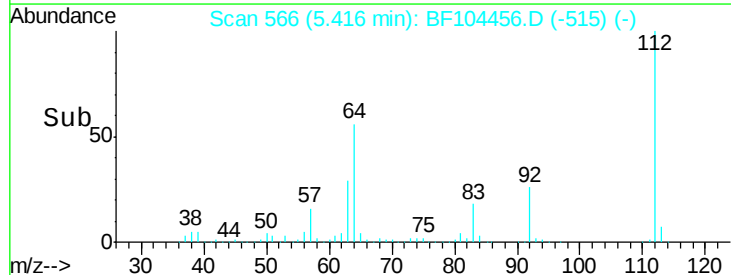
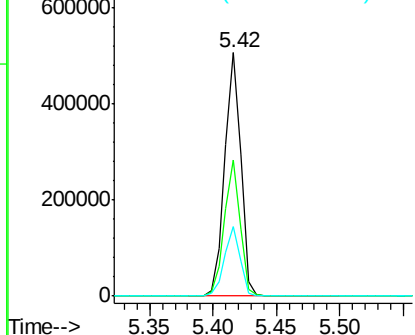
#5

2-Fluorophenol
Concen: 50.727 ng
RT: 5.42 min Scan# 566
Delta R.T. 0.00 min
Lab File: BF104456.D
Acq: 12 Apr 2018 17:35

Tgt Ion	Ratio	Lower	Upper
112	100		
64	55.9	47.9	71.9
63	28.5	23.7	35.5



Abundance Ion 112.00 (111.70 to 112.70): E
Ion 64.00 (63.70 to 64.70): BF1
Ion 63.00 (62.70 to 63.70): BF1





#7

Phenol-d6

Concen: 48.944 ng

RT: 6.43 min Scan# 739

Delta R.T. -0.01 min

Lab File: BF104456.D

Acq: 12 Apr 2018 17:35

Instrument :

BNA_F

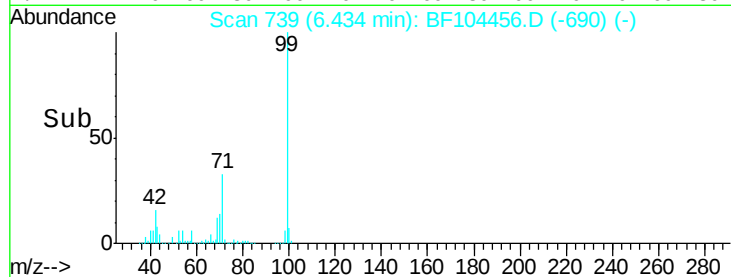
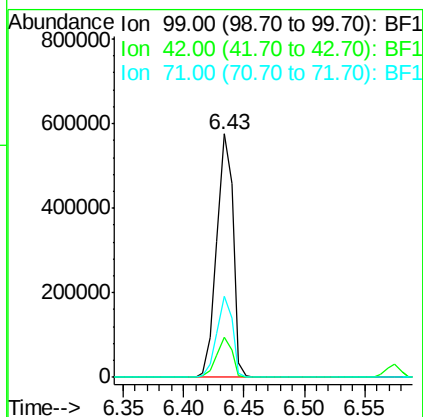
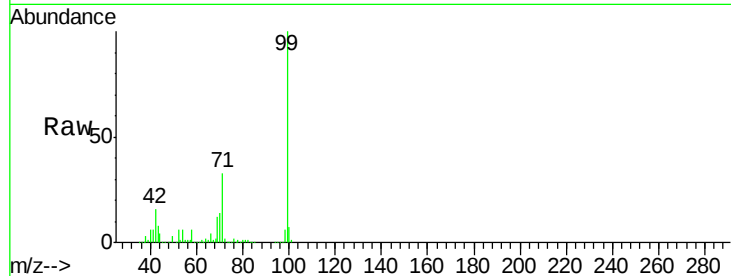
ClientSampleId :

PL-01-041118-B

Tot Ion:	99	Resp:	533464
Ion Ratio	Lower	Upper	
99	100		
42	16.2	14.5	21.7
71	33.2	25.4	38.0

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#10

Phenol

Concen: 2.424 ng

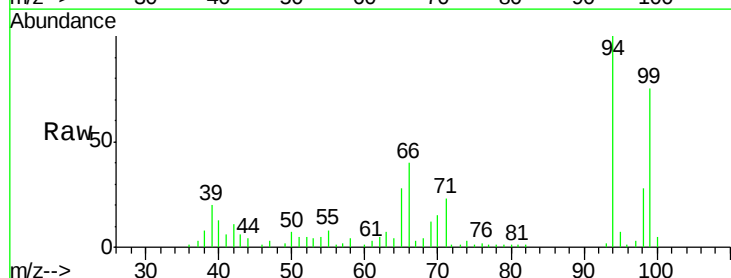
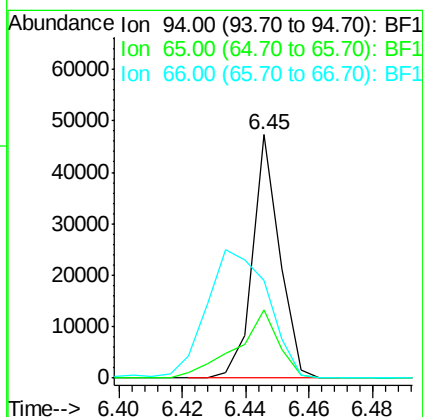
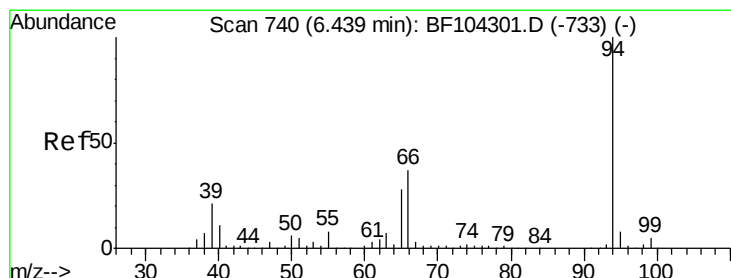
RT: 6.45 min Scan# 741

Delta R.T. -0.01 min

Lab File: BF104456.D

Acq: 12 Apr 2018 17:35

Tgt Ion:	94	Resp:	28030
Ion Ratio	Lower	Upper	
94	100		
65	27.9	7.9	47.9
66	39.9	16.2	56.2





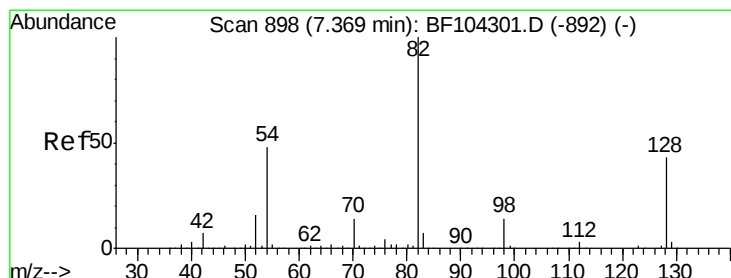
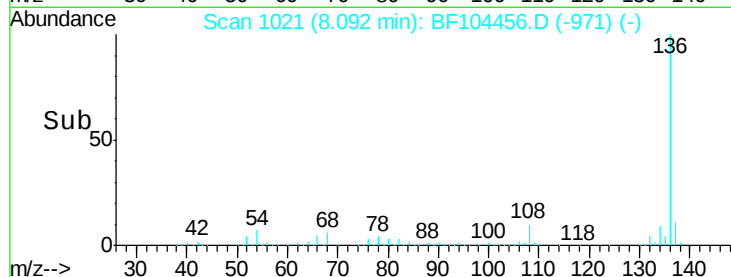
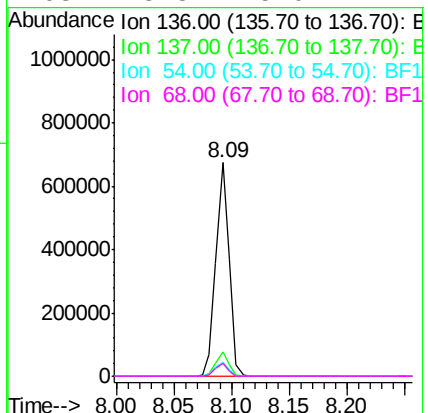
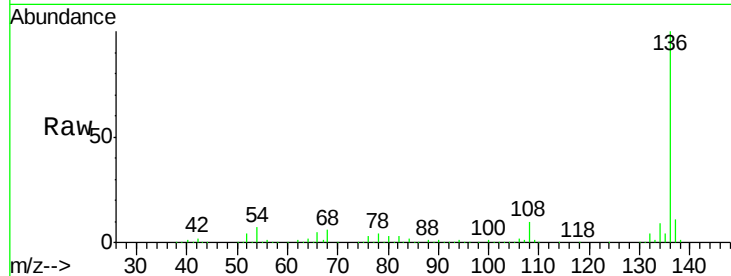
#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.09 min Scan# 1021
Delta R.T. -0.01 min
Lab File: BF104456.D
Acq: 12 Apr 2018 17:35

Instrument :
BNA_F
ClientSampleId :
PL-01-041118-B

Tot Ion	Ion	Ratio	Resp	Lower	Upper
136	100		538084		
137	11.4	8.9	13.3		
54	6.9	6.6	9.8		
68	5.8	5.0	7.4		

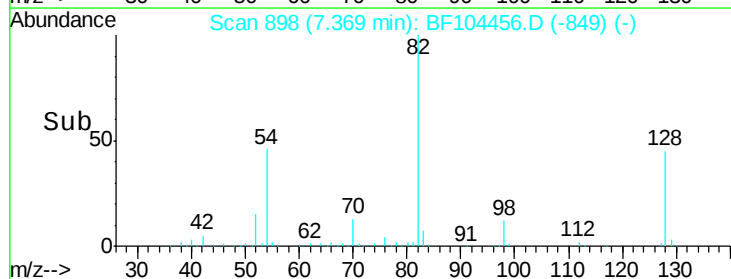
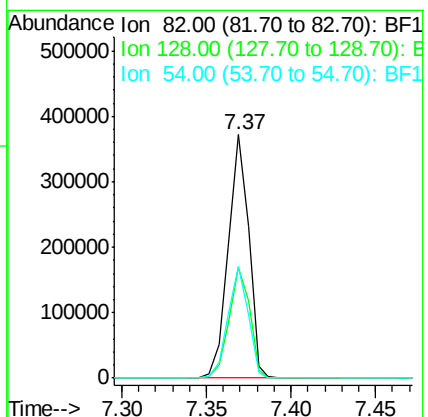
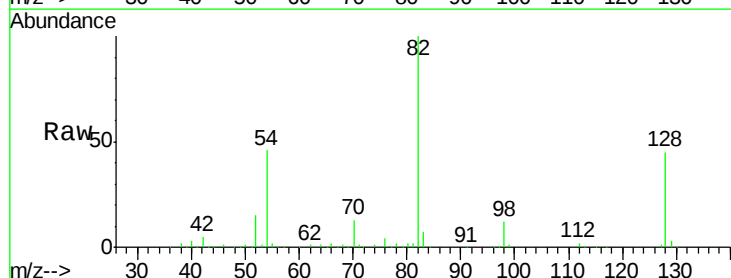
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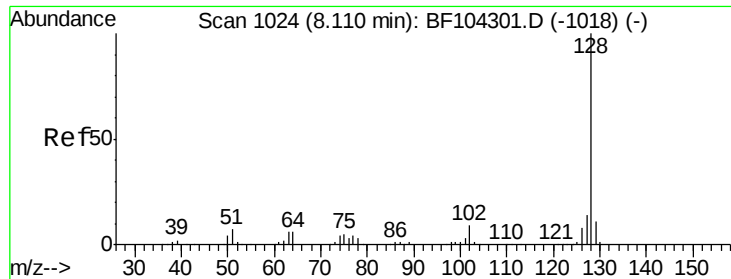
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#23
Nitrobenzene-d5
Concen: 37.983 ng
RT: 7.37 min Scan# 898
Delta R.T. -0.01 min
Lab File: BF104456.D
Acq: 12 Apr 2018 17:35

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
82	100		312993		
128	45.4	36.1	54.1		
54	46.2	41.4	62.2		





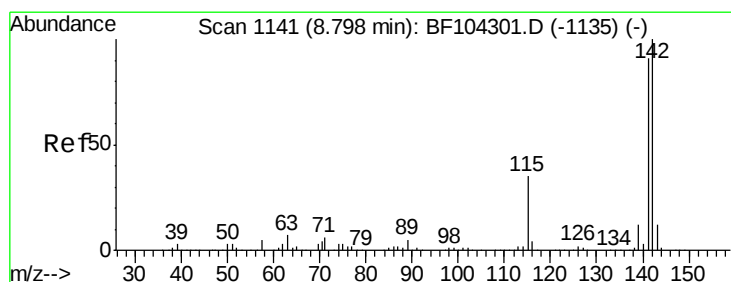
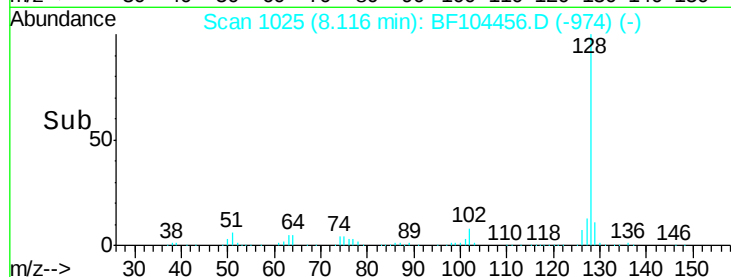
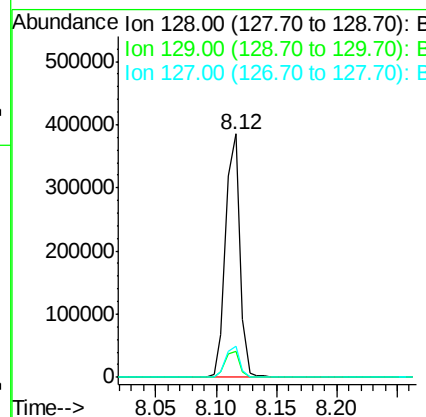
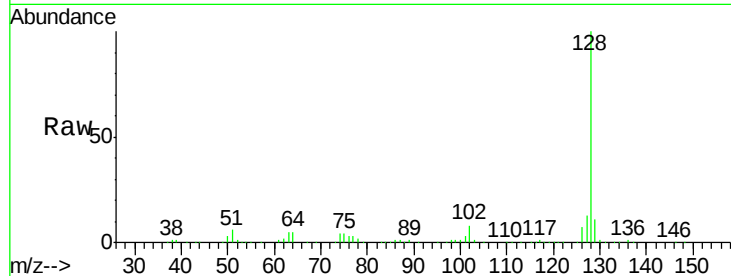
#31
Naphthalene
Concen: 11.648 ng
RT: 8.12 min Scan# 1025
Delta R.T. 0.00 min
Lab File: BF104456.D
Acq: 12 Apr 2018 17:35

Instrument :
BNA_F
ClientSampleId :
PL-01-041118-B

Tot Ion	Ratio	Resp	Lower	Upper
128	100	312080		
129	10.7		8.8	13.2
127	12.8		10.9	16.3

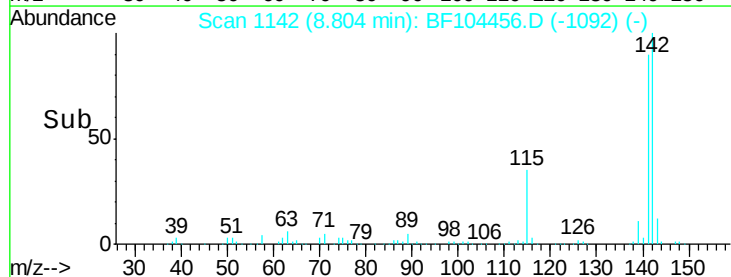
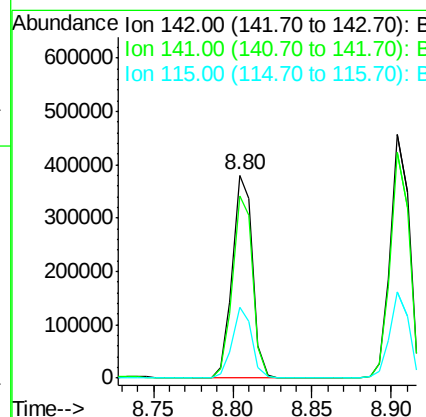
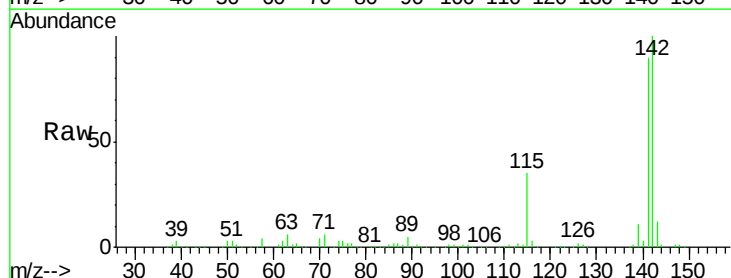
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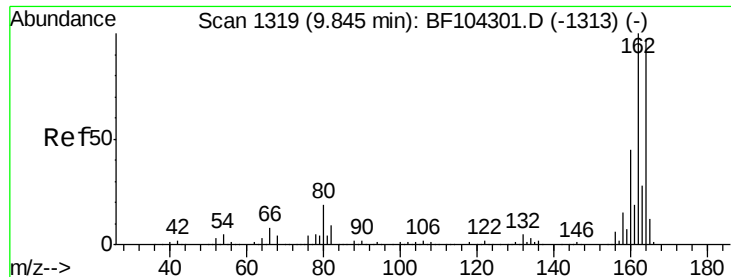
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#37
2-Methylnaphthalene
Concen: 19.361 ng
RT: 8.80 min Scan# 1142
Delta R.T. -0.01 min
Lab File: BF104456.D
Acq: 12 Apr 2018 17:35

Tgt Ion	Ratio	Resp	Lower	Upper
142	100	335555		
141	89.5		70.8	106.2
115	34.9		26.1	39.1





#38

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.85 min Scan# 1320

Delta R.T. 0.00 min

Lab File: BF104456.D

Acq: 12 Apr 2018 17:35

Instrument :

BNA_F

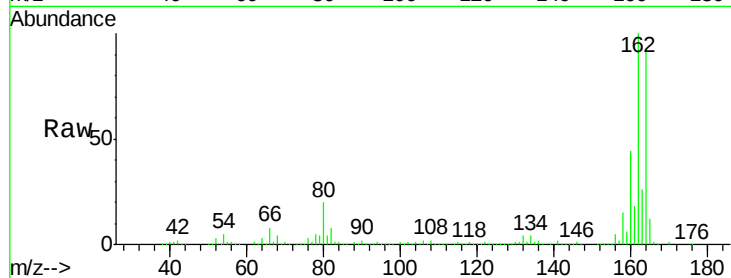
ClientSampleId :

PL-01-041118-B

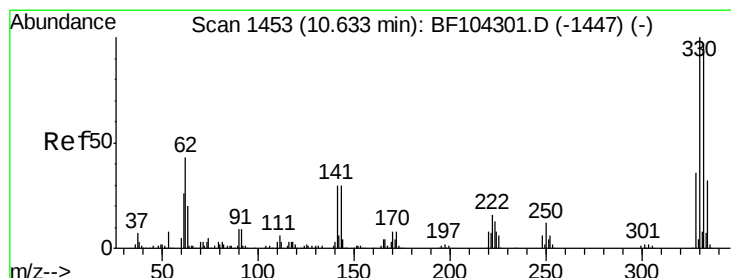
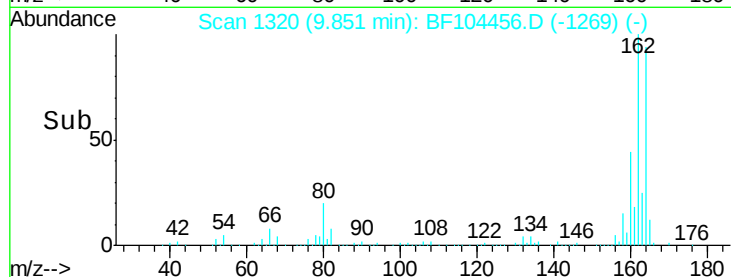
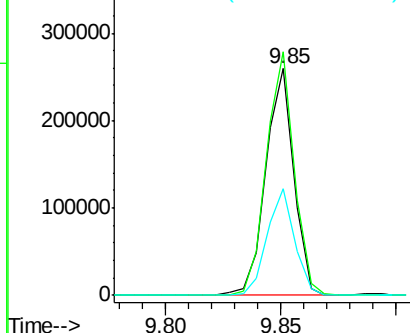
Tot Ion:	164	Resp:	220018
Ion Ratio	Lower	Upper	
164	100		
162	107.4	86.1	129.1
160	46.9	38.3	57.5

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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: 41.418 ng

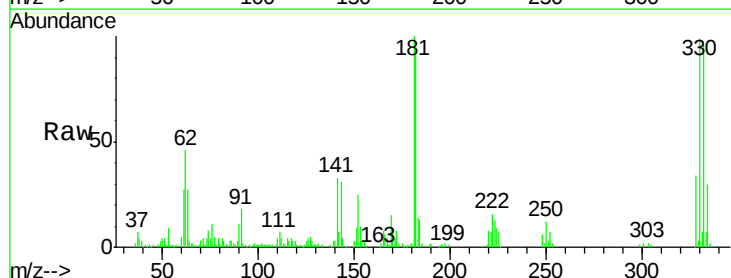
RT: 10.64 min Scan# 1454

Delta R.T. -0.01 min

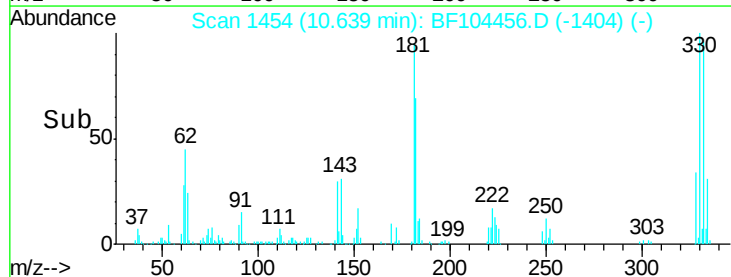
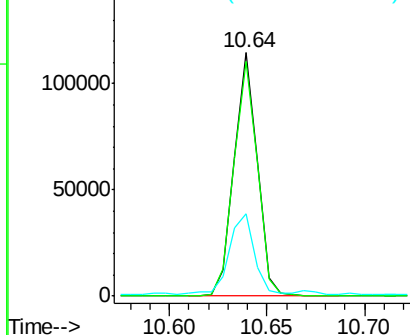
Lab File: BF104456.D

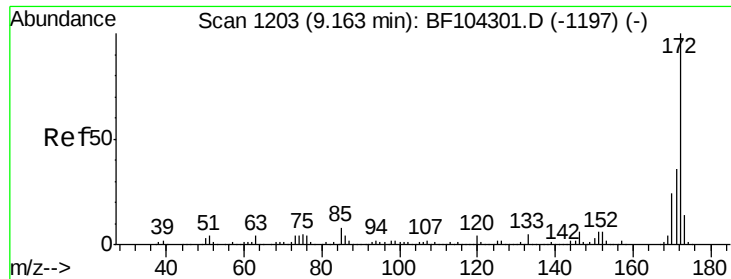
Acq: 12 Apr 2018 17:35

Tgt Ion:	330	Resp:	94529
Ion Ratio	Lower	Upper	
330	100		
332	98.0	77.0	115.6
141	36.4	29.9	44.9



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





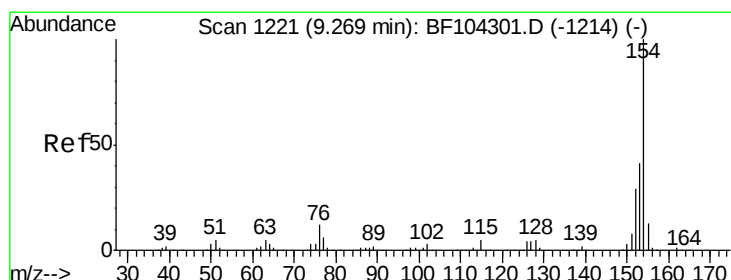
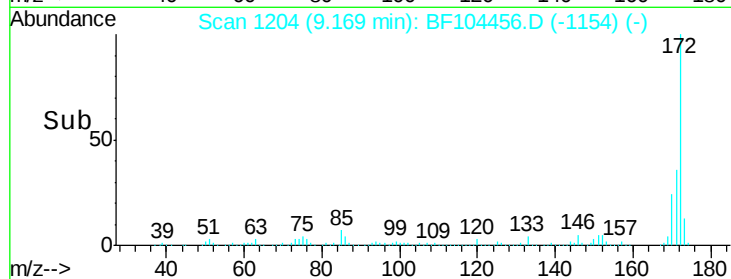
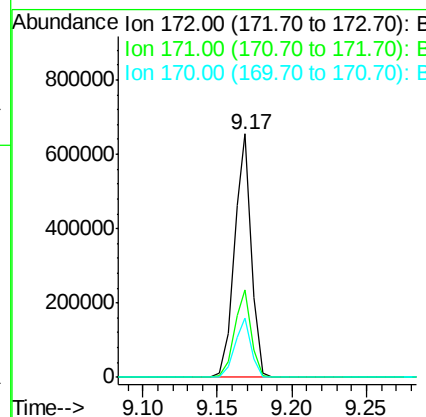
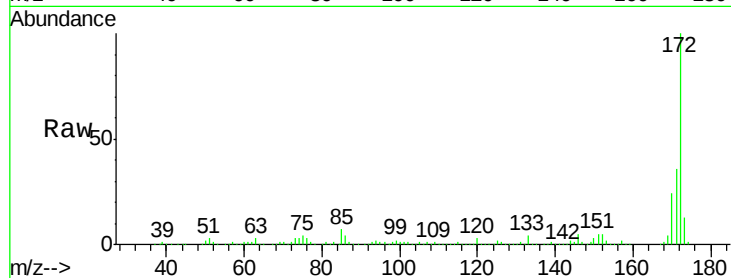
#44
2-Fluorobiphenyl
Concen: 37.395 ng
RT: 9.17 min Scan# 1204
Delta R.T. -0.01 min
Lab File: BF104456.D
Acq: 12 Apr 2018 17:35

Instrument :
BNA_F
ClientSampleId :
PL-01-041118-B

Tot Ion	Ratio	Resp	Lower	Upper
172	100	520813		
171	36.1		29.7	44.5
170	24.2		19.6	29.4

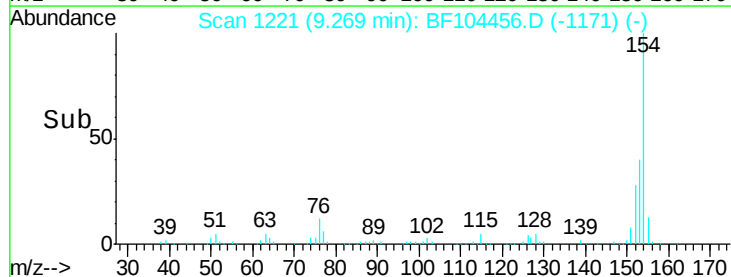
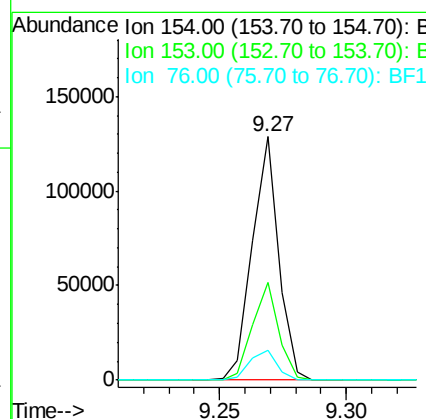
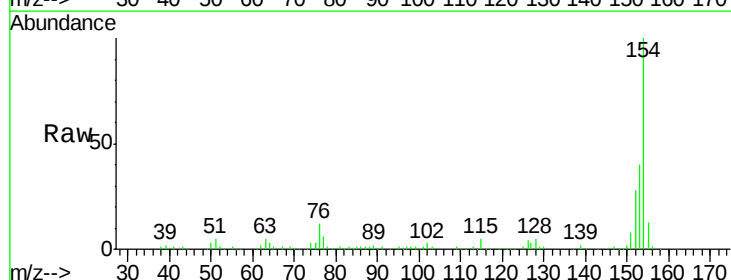
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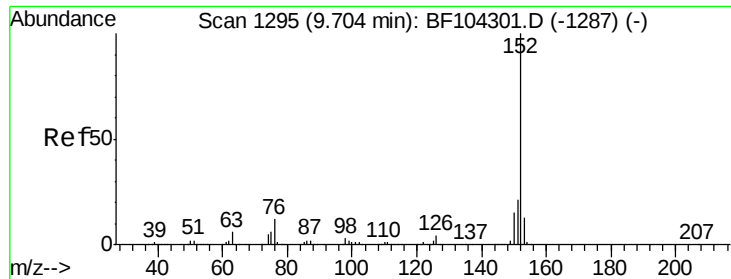
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#45
1,1'-Biphenyl
Concen: 5.050 ng
RT: 9.27 min Scan# 1221
Delta R.T. -0.01 min
Lab File: BF104456.D
Acq: 12 Apr 2018 17:35

Tgt Ion	Ratio	Resp	Lower	Upper
154	100	93335		
153	39.9		21.3	61.3
76	12.4		0.0	34.0





#48

Acenaphthylene

Concen: 5.440 ng

RT: 9.71 min Scan# 1296

Delta R.T. -0.01 min

Lab File: BF104456.D

Acq: 12 Apr 2018 17:35

Instrument :

BNA_F

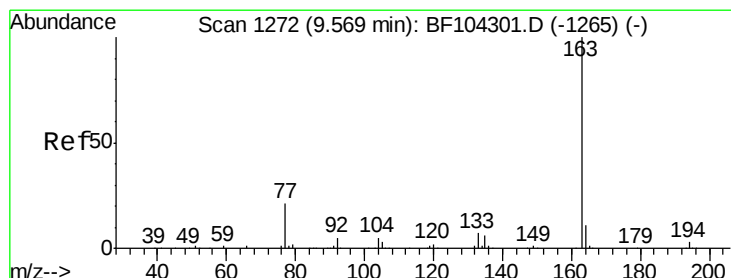
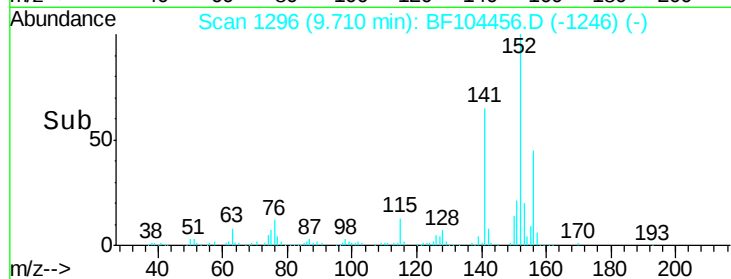
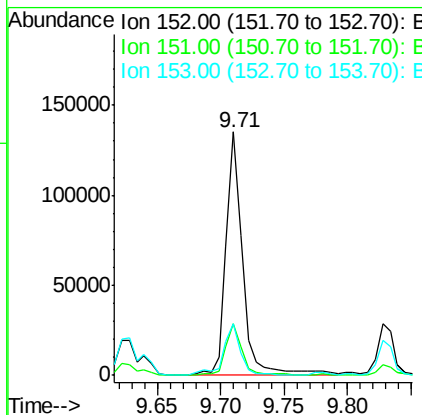
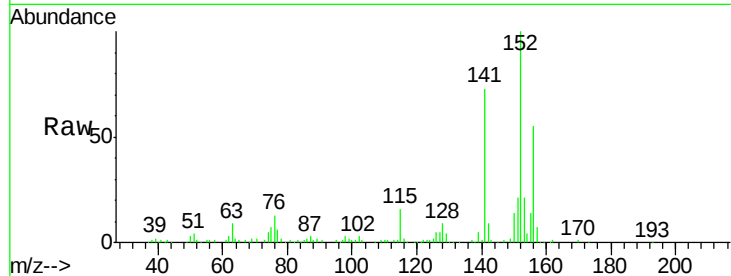
ClientSampleId :

PL-01-041118-B

Tot Ion	Ratio	Lower	Upper
152	100		
151	21.2	16.3	24.5
153	21.1	10.7	16.1

Manual Integrations
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#49

Dimethylphthalate

Concen: 2.229 ng

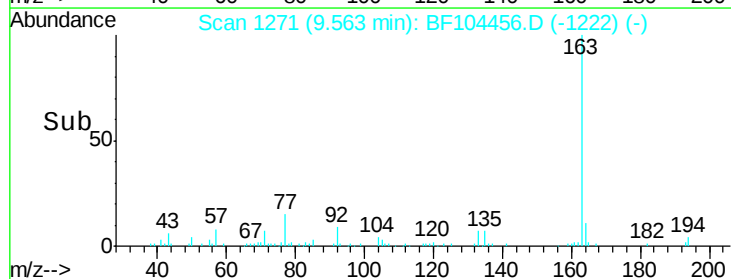
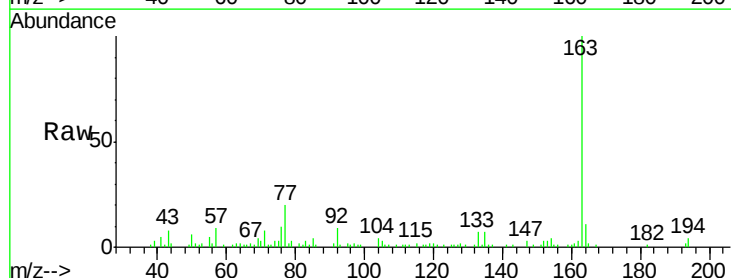
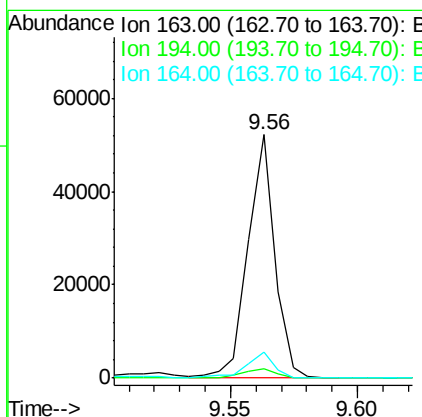
RT: 9.56 min Scan# 1271

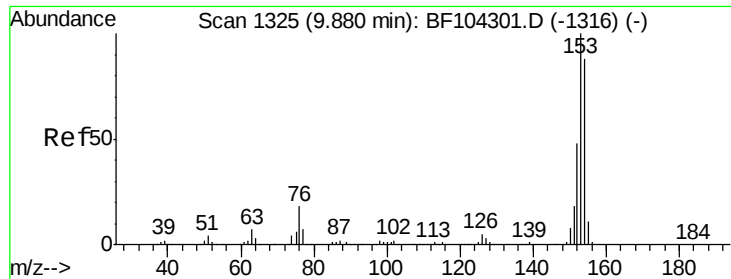
Delta R.T. -0.01 min

Lab File: BF104456.D

Acq: 12 Apr 2018 17:35

Tgt Ion	Ratio	Lower	Upper
163	100		
194	3.6	2.7	4.1
164	10.8	8.2	12.2





#51

Acenaphthene

Concen: 28.322 ng

RT: 9.89 min Scan# 1326

Delta R.T. 0.00 min

Lab File: BF104456.D

Acq: 12 Apr 2018 17:35

Instrument :

BNA_F

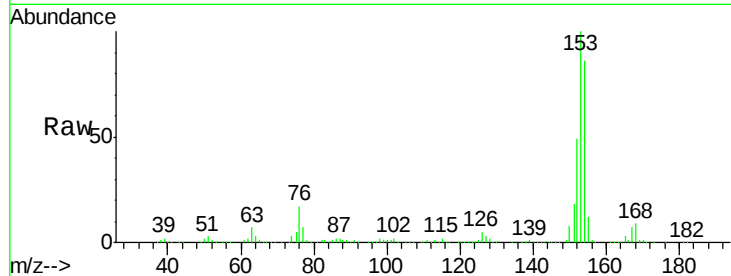
ClientSampleId :

PL-01-041118-B

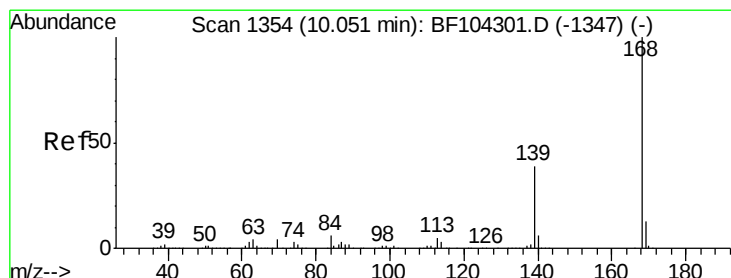
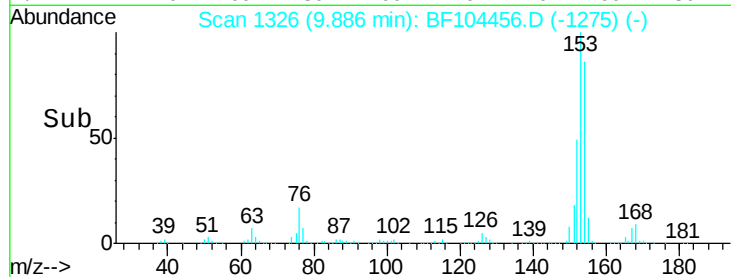
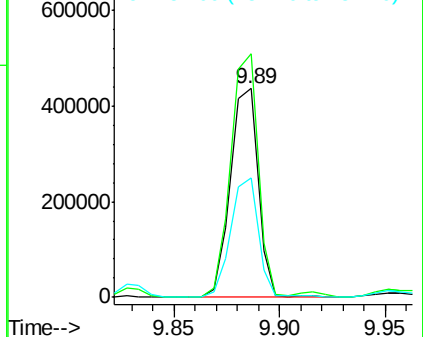
Tot Ion:	154	Resp:	395817
Ion Ratio	Lower	Upper	
154	100		
153	116.7	91.2	136.8
152	57.5	43.8	65.8

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



#54

Dibenzofuran

Concen: 13.206 ng

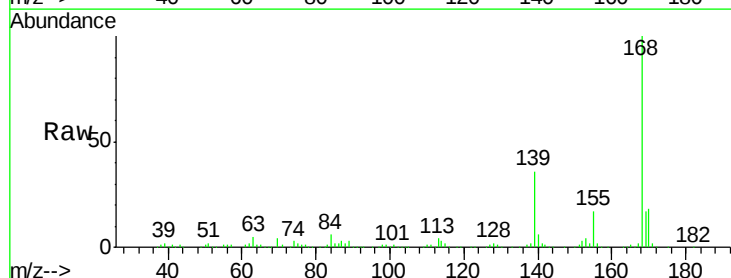
RT: 10.06 min Scan# 1355

Delta R.T. 0.00 min

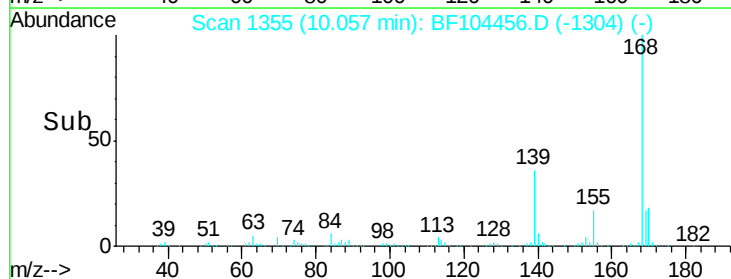
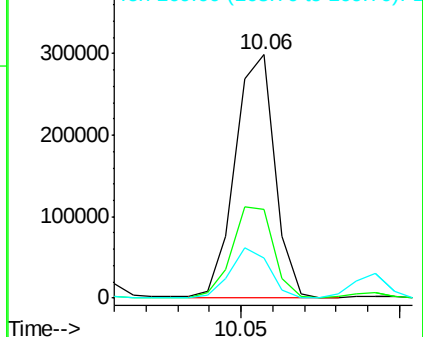
Lab File: BF104456.D

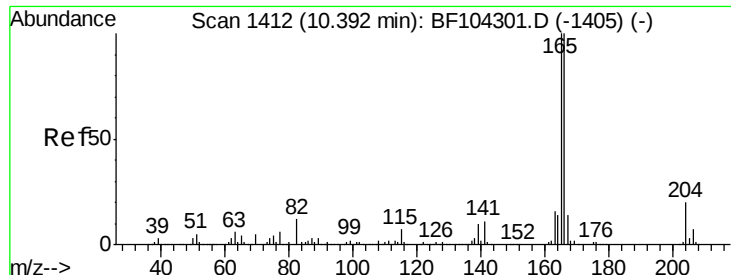
Acq: 12 Apr 2018 17:35

Tgt Ion:	168	Resp:	257208
Ion Ratio	Lower	Upper	
168	100		
139	36.3	30.1	45.1
169	16.5	10.9	16.3#



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





#57

Fluorene

Concen: 52.257 ng

RT: 10.40 min Scan# 1414

Delta R.T. 0.00 min

Lab File: BF104456.D

Acq: 12 Apr 2018 17:35

Instrument :

BNA_F

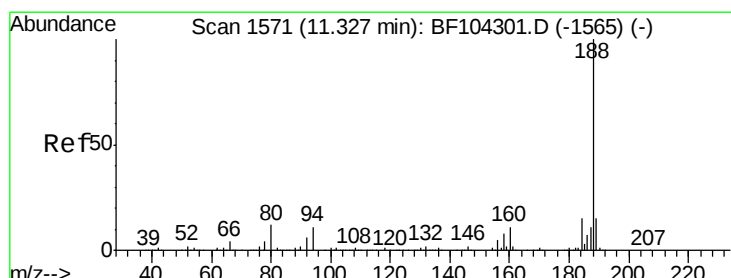
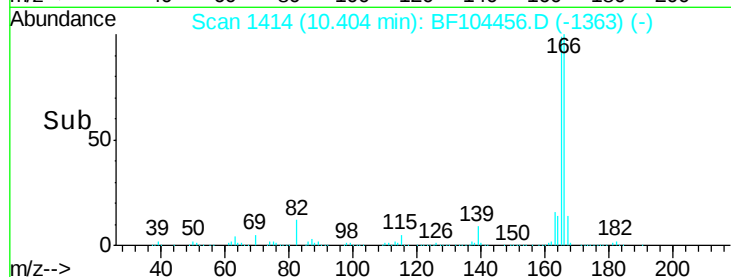
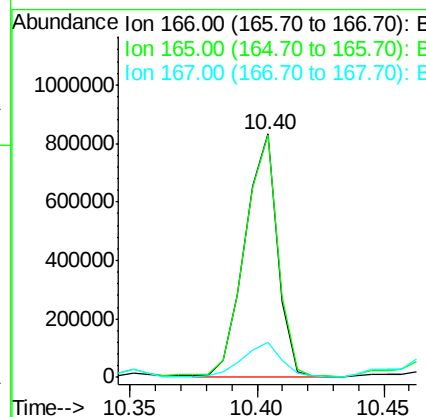
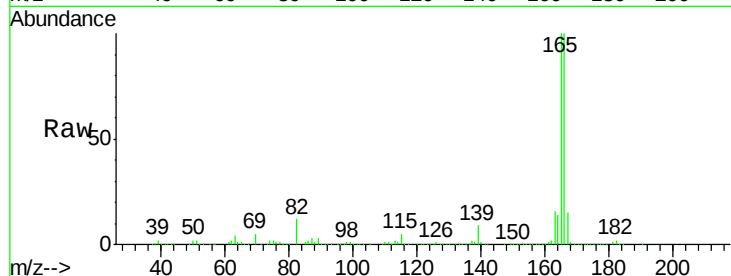
ClientSampleId :

PL-01-041118-B

Tot Ion:	166	Resp:	740815
Ion Ratio	Lower	Upper	
166	100		
165	99.7	79.8	119.8
167	14.6	10.6	16.0

Manual Integrations
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#63

Phenanthrene-d10

Concen: 20.000 ng

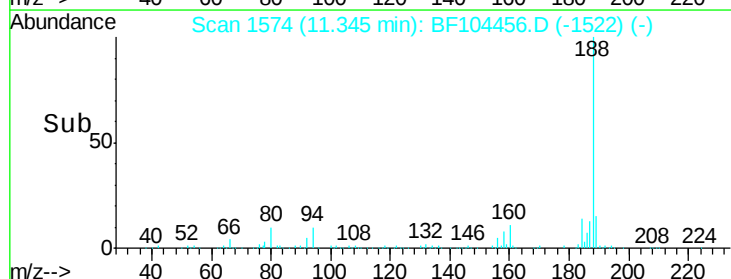
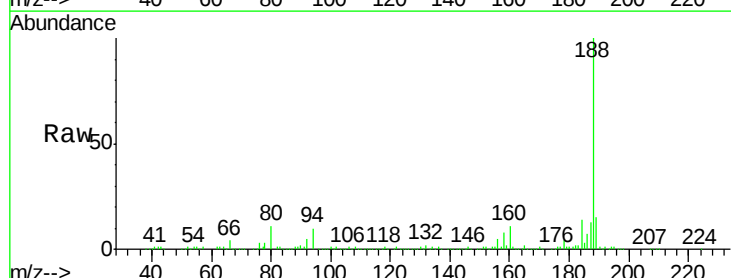
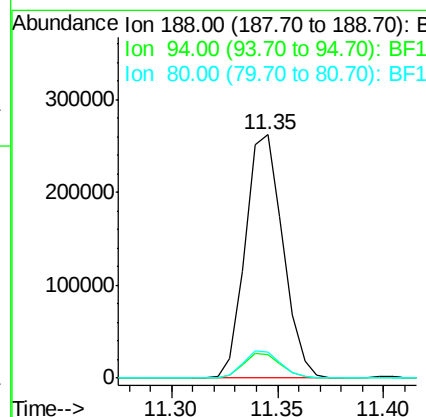
RT: 11.35 min Scan# 1574

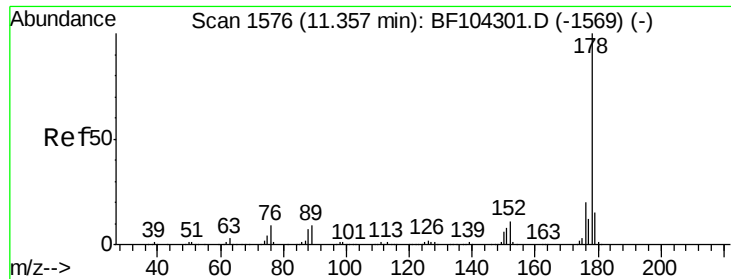
Delta R.T. 0.01 min

Lab File: BF104456.D

Acq: 12 Apr 2018 17:35

Tgt Ion:	188	Resp:	322630
Ion Ratio	Lower	Upper	
188	100		
94	9.7	8.5	12.7
80	10.6	9.2	13.8





#70

Phenanthrene

Concen: 164.562 ng

RT: 11.38 min Scan# 1580

Delta R.T. 0.01 min

Lab File: BF104456.D

Acq: 12 Apr 2018 17:35

Instrument :

BNA_F

ClientSampleId :

PL-01-041118-B

Tot Ion:178 Resp: 2956690

Ion Ratio Lower Upper

178 100

176 20.6 15.8 23.8

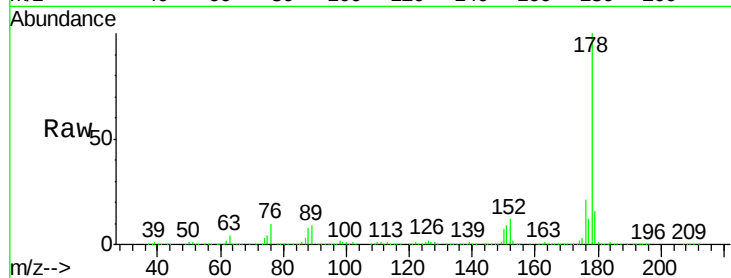
179 16.3 13.0 19.6

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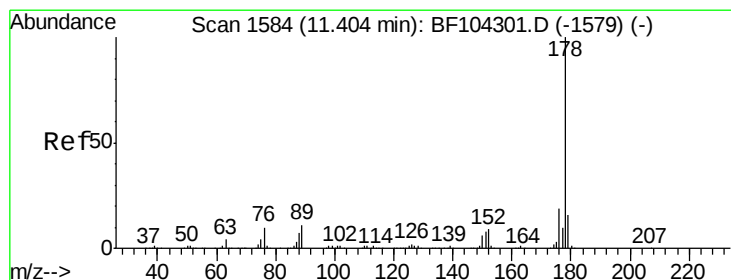
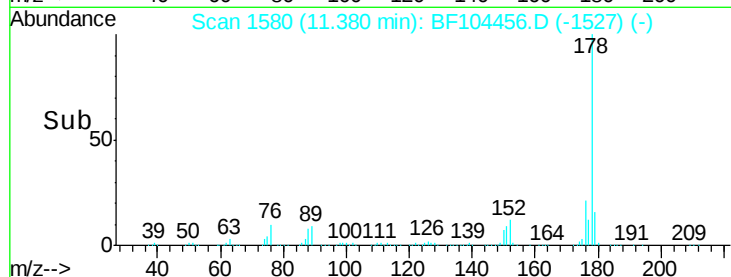
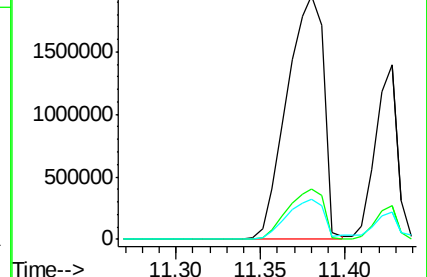
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Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E



#71

Anthracene

Concen: 69.777 ng

RT: 11.43 min Scan# 1588

Delta R.T. 0.01 min

Lab File: BF104456.D

Acq: 12 Apr 2018 17:35

Tgt Ion:178 Resp: 1274391

Ion Ratio Lower Upper

178 100

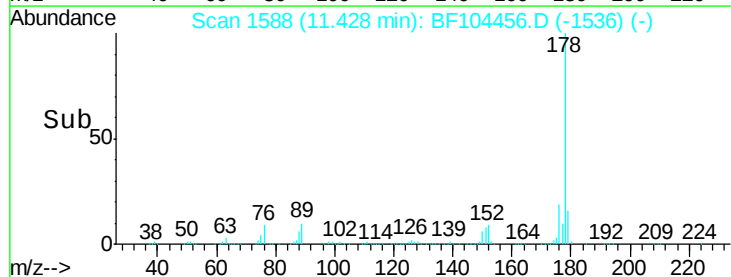
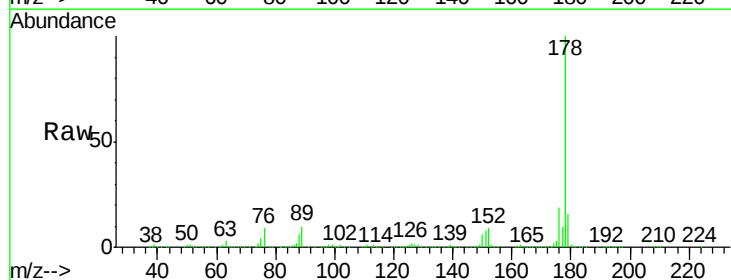
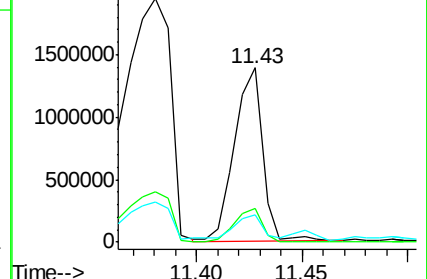
176 19.5 15.4 23.2

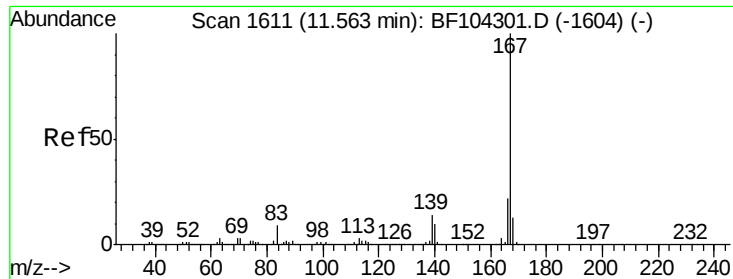
179 15.8 12.6 19.0

Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#72

Carbazole

Concen: 6.538 ng

RT: 11.57 min Scan# 1612

Delta R.T. -0.01 min

Lab File: BF104456.D

Acq: 12 Apr 2018 17:35

Instrument :

BNA_F

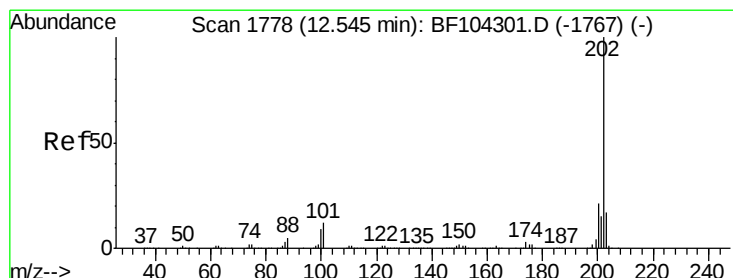
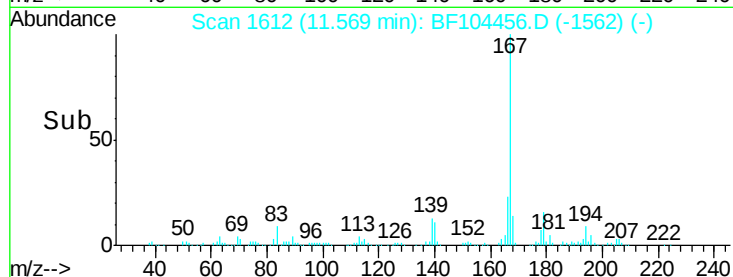
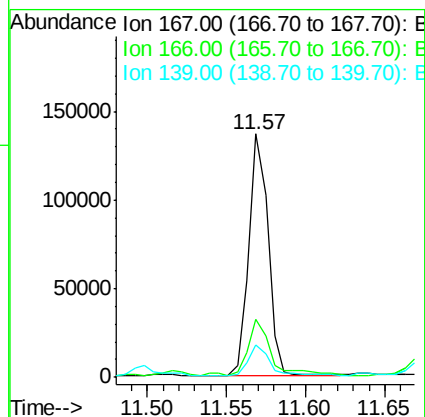
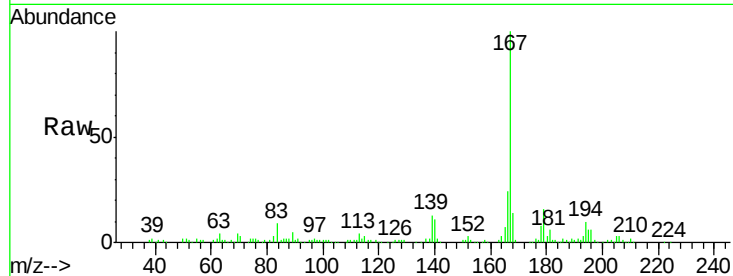
ClientSampleId :

PL-01-041118-B

Tot Ion:	167	Resp:	116686
Ion Ratio	Lower	Upper	
167	100		
166	23.7	17.6	26.4
139	13.5	10.9	16.3

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#74

Fluoranthene

Concen: 140.720 ng

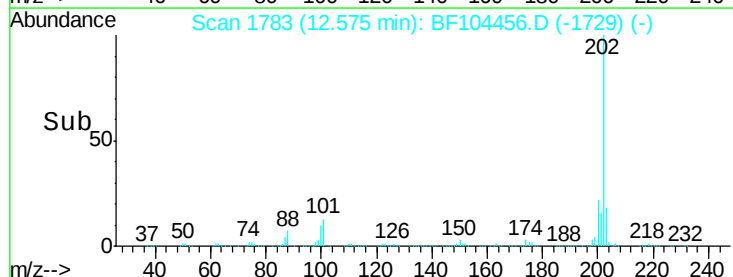
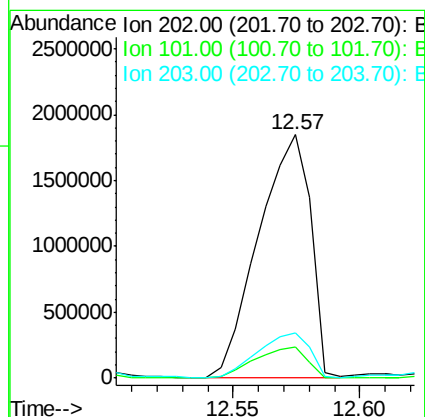
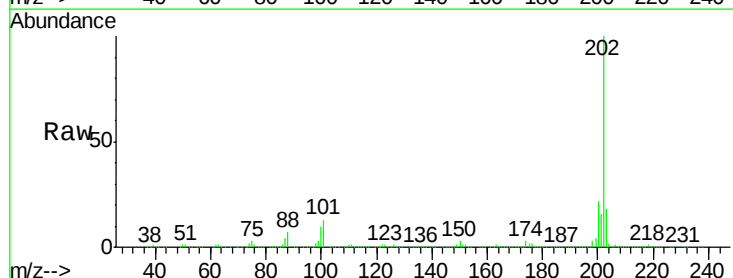
RT: 12.57 min Scan# 1783

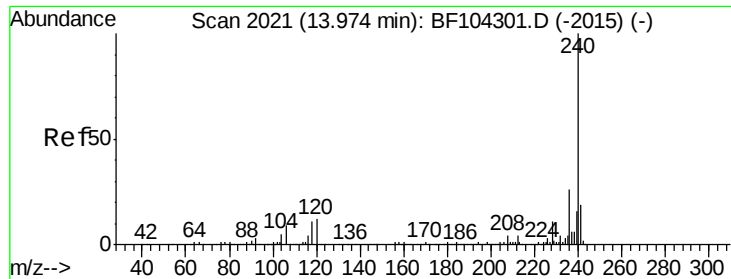
Delta R.T. 0.02 min

Lab File: BF104456.D

Acq: 12 Apr 2018 17:35

Tgt Ion:	202	Resp:	2641618
Ion Ratio	Lower	Upper	
202	100		
101	13.0	0.0	34.1
203	18.5	0.0	38.1





#75

Chrysene-d12

Concen: 20.000 ng

RT: 14.00 min Scan# 2025

Delta R.T. 0.01 min

Lab File: BF104456.D

Acq: 12 Apr 2018 17:35

Instrument :

BNA_F

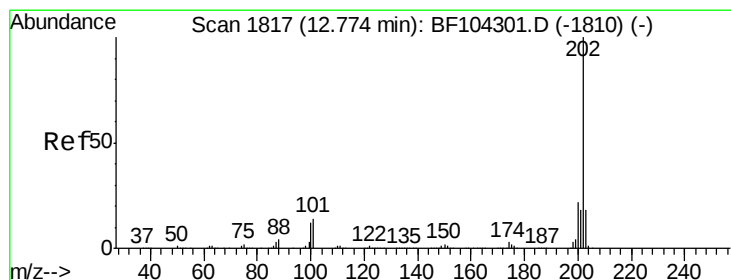
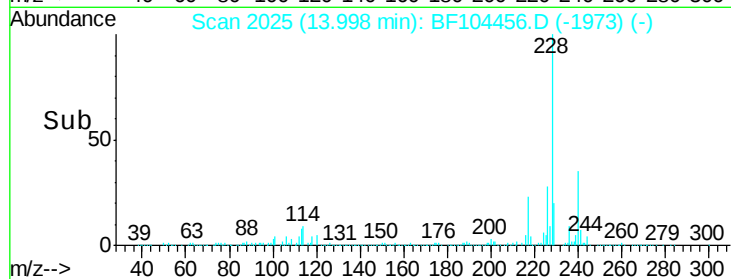
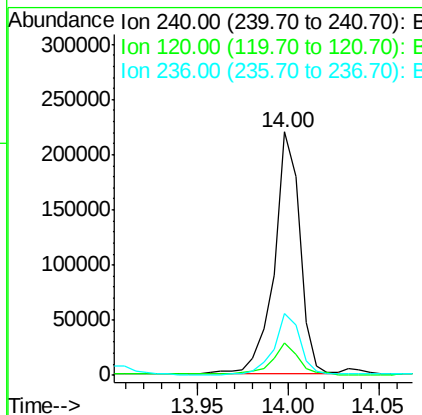
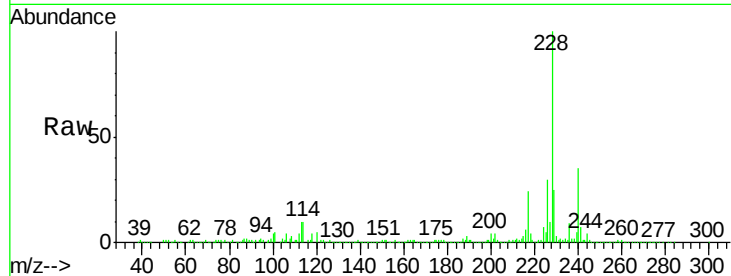
ClientSampleId :

PL-01-041118-B

Tot Ion:	240	Resp:	216531
Ion Ratio	Lower	Upper	
240	100		
120	13.3	9.5	14.3
236	25.3	20.7	31.1

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#77

Pyrene

Concen: 181.992 ng

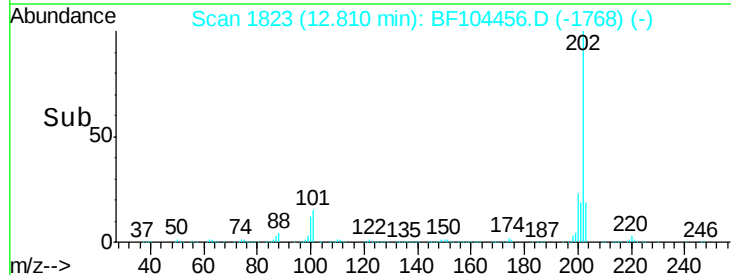
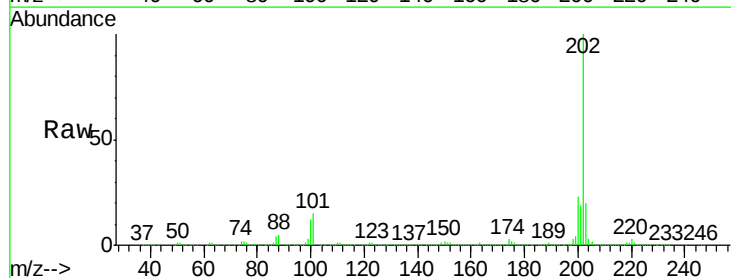
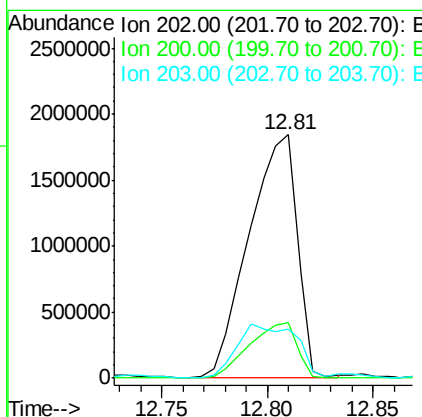
RT: 12.81 min Scan# 1823

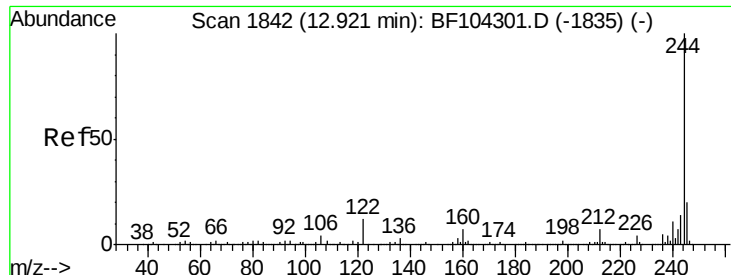
Delta R.T. 0.02 min

Lab File: BF104456.D

Acq: 12 Apr 2018 17:35

Tgt Ion:	202	Resp:	2920979
Ion Ratio	Lower	Upper	
202	100		
200	22.6	17.4	26.2
203	20.3	14.3	21.5





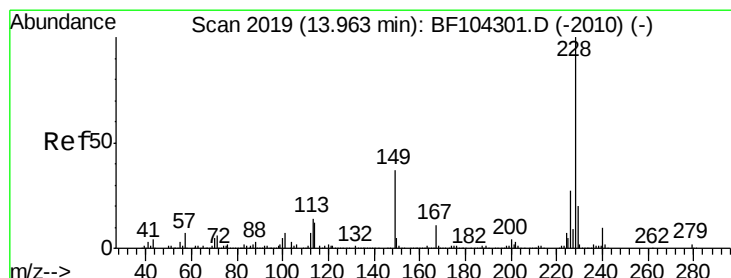
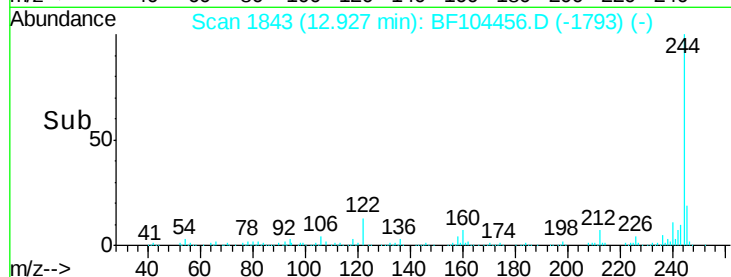
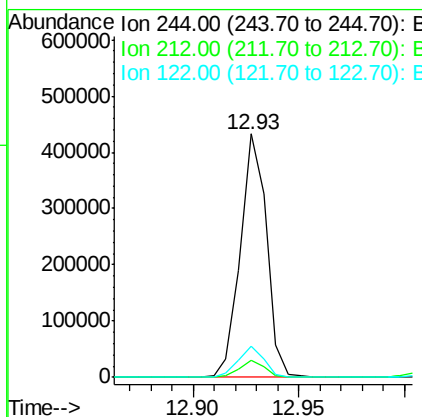
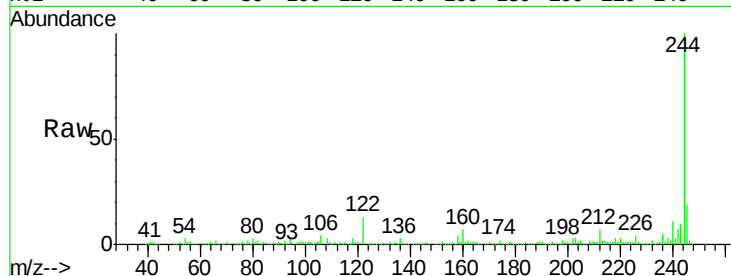
#78
 Terphenyl-d14
 Concen: 38.934 ng
 RT: 12.93 min Scan# 1843
 Delta R.T. -0.01 min
 Lab File: BF104456.D
 Acq: 12 Apr 2018 17:35

Instrument :
 BNA_F
 ClientSampleId :
 PL-01-041118-B

Tot Ion	Ratio	Lower	Upper
244	100		
212	6.9	5.4	8.0
122	12.8	11.0	16.4

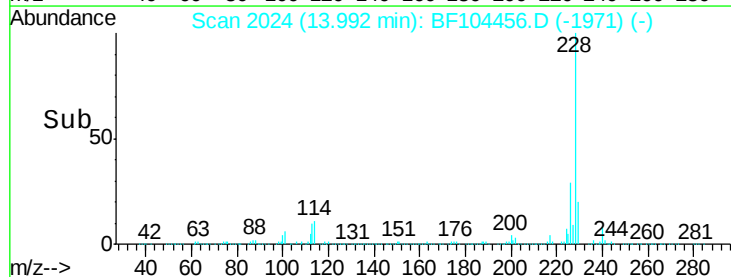
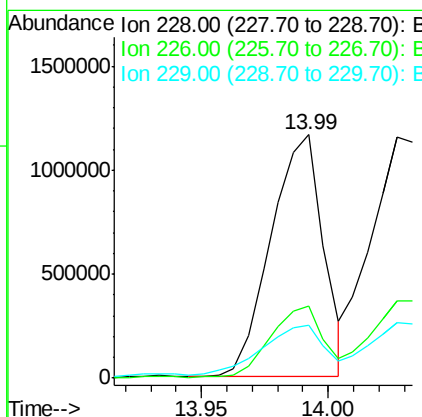
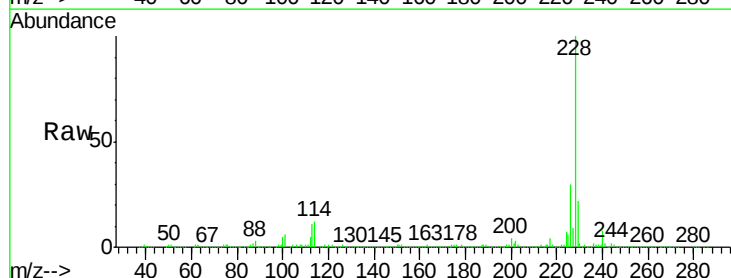
Manual Integrations
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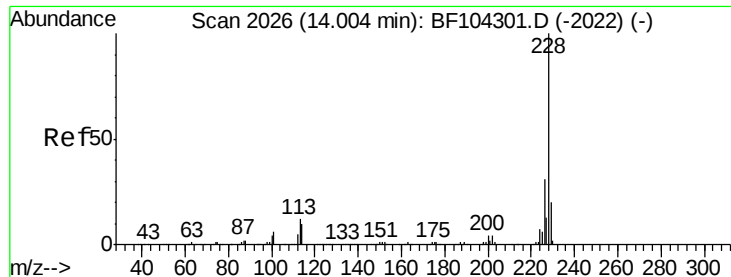
Sohil
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#80
 Benzo(a)anthracene
 Concen: 129.065 ng
 RT: 13.99 min Scan# 2024
 Delta R.T. 0.01 min
 Lab File: BF104456.D
 Acq: 12 Apr 2018 17:35

Tgt Ion	Ratio	Lower	Upper
228	100		
226	29.5	22.6	33.8
229	21.8	15.8	23.6





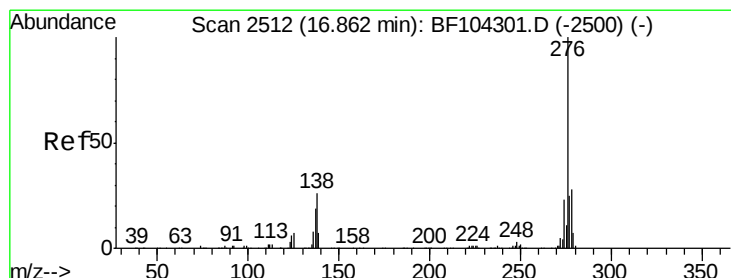
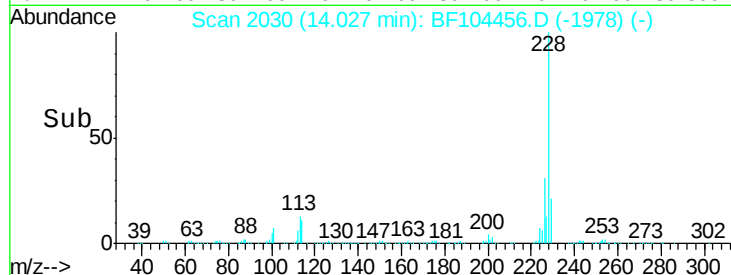
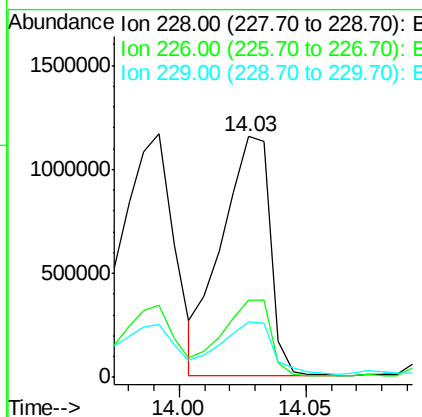
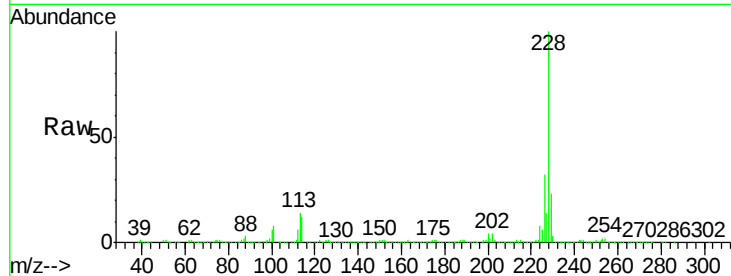
#82
Chrysene
Concen: 115.095 ng
RT: 14.03 min Scan# 2030
Delta R.T. 0.01 min
Lab File: BF104456.D
Acq: 12 Apr 2018 17:35

Instrument :
BNA_F
ClientSampled :
PL-01-041118-B

Tot Ion:228 Resp: 1529275
Ion Ratio Lower Upper
228 100
226 32.3 25.0 37.6
229 22.9 16.2 24.4

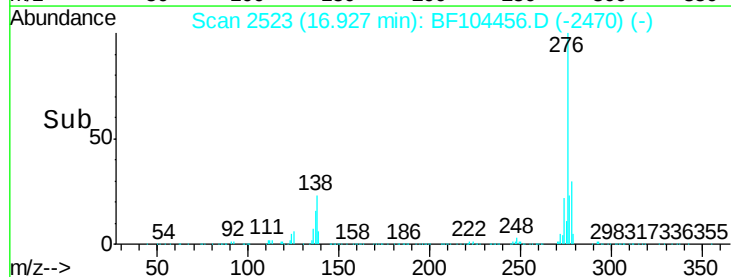
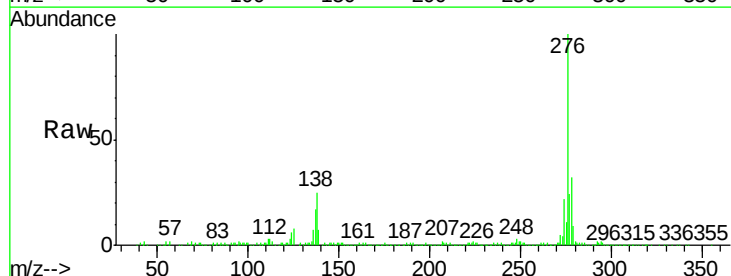
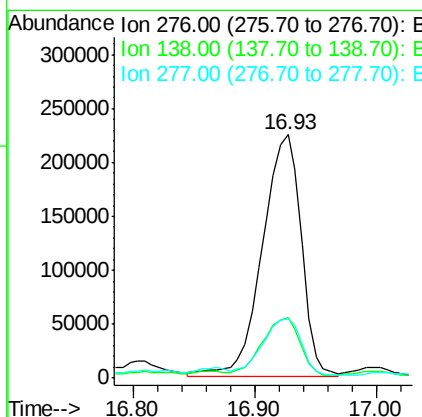
Manual Integrations
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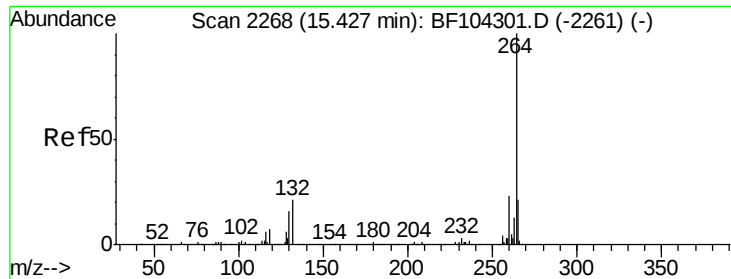
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#85
Indeno(1,2,3-cd)pyrene
Concen: 44.133 ng m
RT: 16.93 min Scan# 2523
Delta R.T. 0.01 min
Lab File: BF104456.D
Acq: 12 Apr 2018 17:35

Tgt Ion:276 Resp: 498134
Ion Ratio Lower Upper
276 100
138 5.9 25.0 37.6#
277 5.1 20.1 30.1#





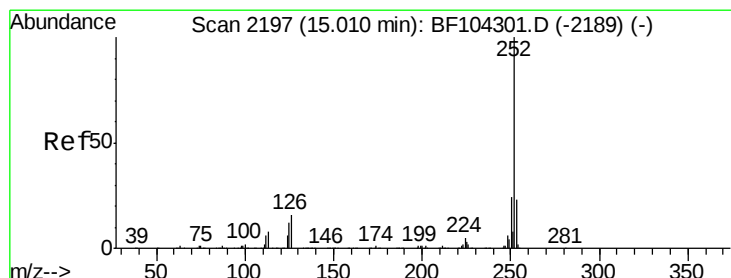
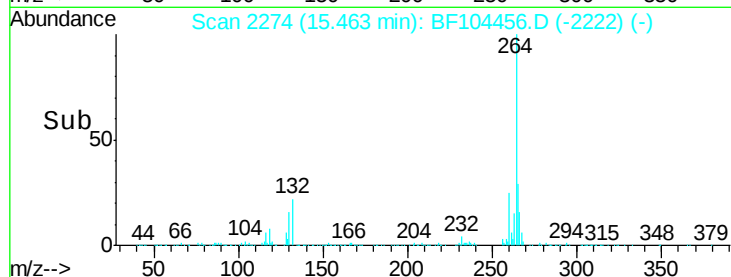
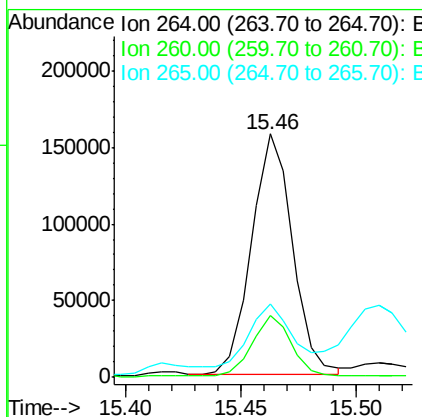
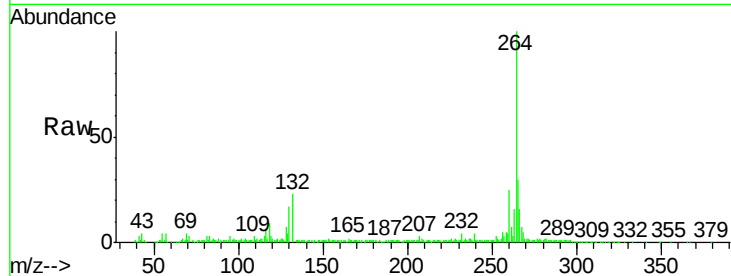
#86
Pervlene-d12
Concen: 20.000 ng
RT: 15.46 min Scan# 2274
Delta R.T. 0.01 min
Lab File: BF104456.D
Acq: 12 Apr 2018 17:35

Instrument :
BNA_F
ClientSampleId :
PL-01-041118-B

Tot Ion	Ratio	Lower	Upper
264	100		
260	25.4	19.2	28.8
265	30.2	17.5	26.3

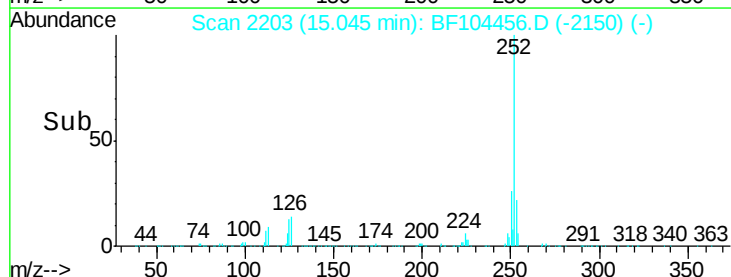
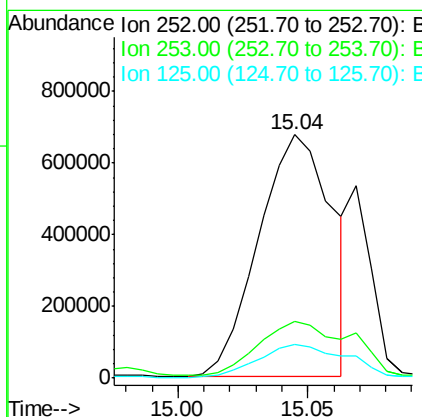
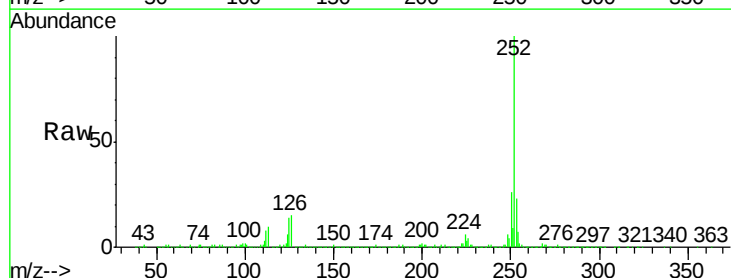
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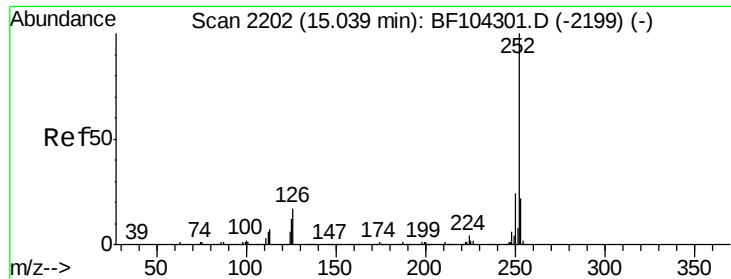
Sohil
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#87
Benzo(b)fluoranthene
Concen: 107.562 ng m
RT: 15.04 min Scan# 2203
Delta R.T. 0.01 min
Lab File: BF104456.D
Acq: 12 Apr 2018 17:35

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.3	17.0	25.6
125	13.9	9.0	13.6





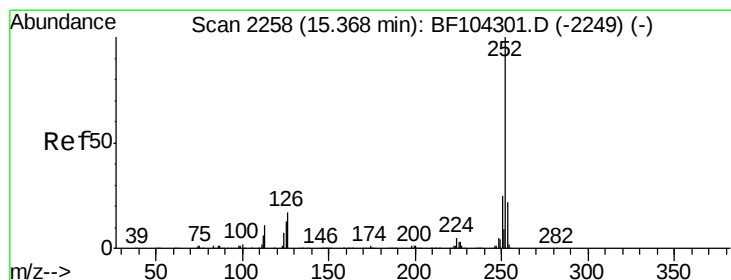
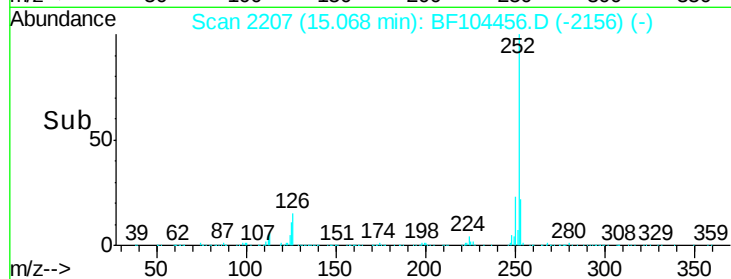
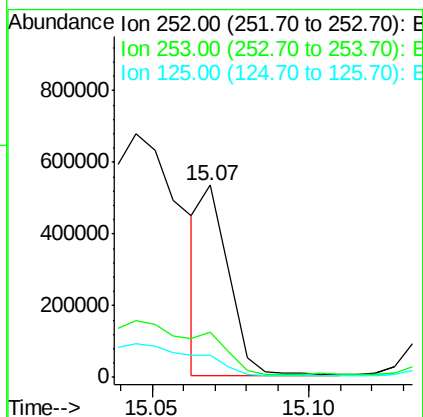
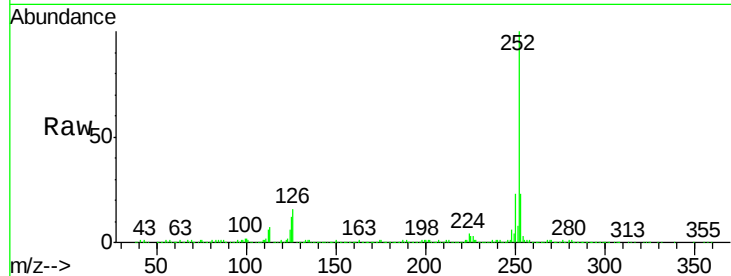
#88
Benzo(k)fluoranthene
Concen: 27.996 ng m
RT: 15.07 min Scan# 2207
Delta R.T. 0.00 min
Lab File: BF104456.D
Acq: 12 Apr 2018 17:35

Instrument :
BNA_F
ClientSampleId :
PL-01-041118-B

Tot Ion	Ratio	Lower	Upper
252	100		
253	23.3	17.9	26.9
125	11.6	10.2	15.2

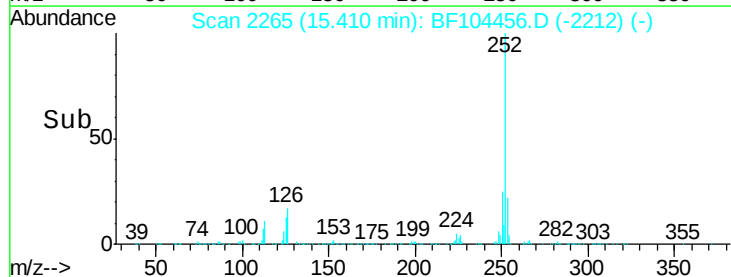
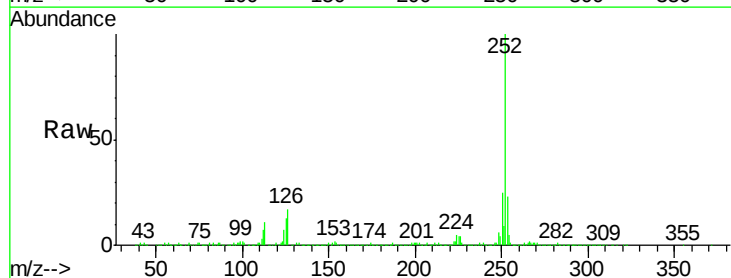
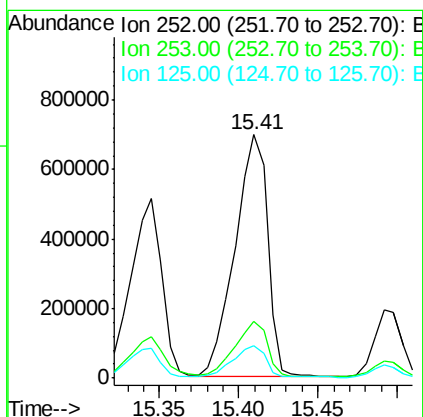
Manual Integrations
APPROVED

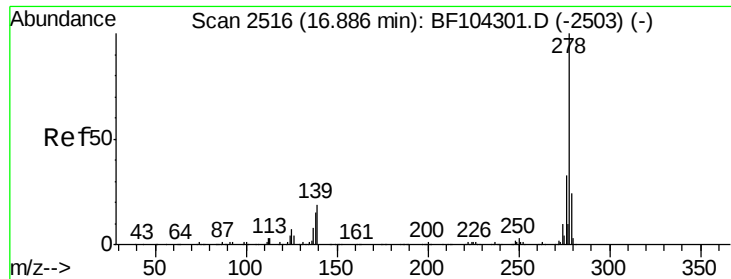
Sohil
4/13/2018 4:44:11 PM



#89
Benzo(a)pyrene
Concen: 90.935 ng
RT: 15.41 min Scan# 2265
Delta R.T. 0.01 min
Lab File: BF104456.D
Acq: 12 Apr 2018 17:35

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.2	17.1	25.7
125	13.4	9.8	14.6





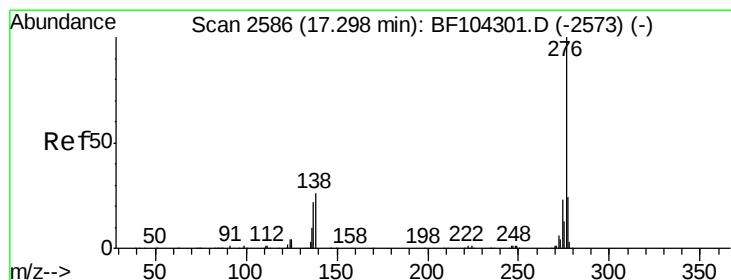
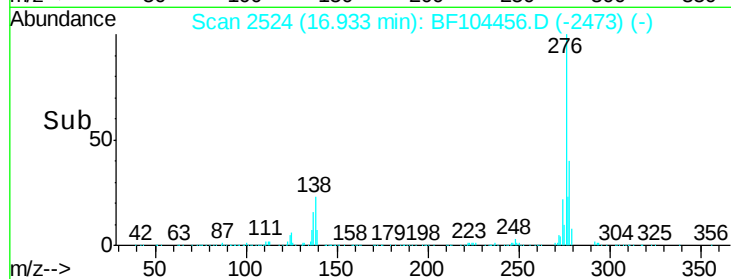
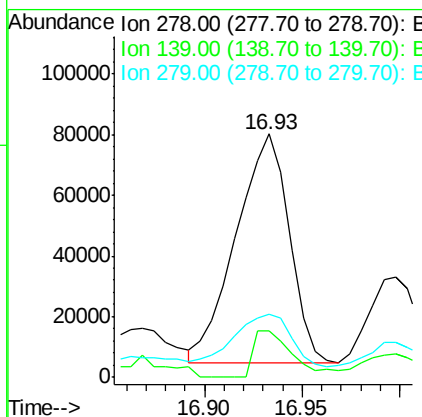
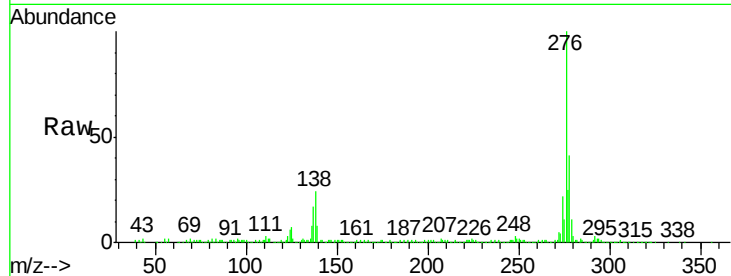
#90
Dibenzo(a,h)anthracene
Concen: 15.782 ng
RT: 16.93 min Scan# 2524
Delta R.T. 0.00 min
Lab File: BF104456.D
Acq: 12 Apr 2018 17:35

Instrument :
BNA_F
ClientSampleId :
PL-01-041118-B

Tot Ion:	278	Resp:	142679
Ion Ratio	Lower	Upper	
278	100		
139	19.2	15.9	23.9
279	26.2	19.0	28.4

Manual Integrations
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#91
Benzo(g,h,i)perylene
Concen: 58.186 ng
RT: 17.37 min Scan# 2599
Delta R.T. 0.01 min
Lab File: BF104456.D
Acq: 12 Apr 2018 17:35

Tgt Ion:	276	Resp:	509634
Ion Ratio	Lower	Upper	
276	100		
277	24.1	17.9	26.9
138	25.1	21.8	32.8

