

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF012219\
 Data File : BF112189.D
 Acq On : 22 Jan 2019 13:20
 Operator : JU/SJ
 Sample : K1013-01 5X
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 PL-01-011819-A

Manual Integrations
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 1/23/2019 10:38:04 AM

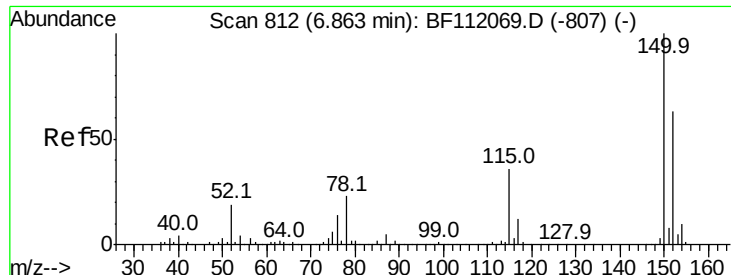
Quant Time: Jan 22 14:51:48 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF011619.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Sat Jan 19 01:02:12 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.85	152	249681	20.00	ng	0.00
21) Naphthalene-d8	8.13	136	975421	20.00	ng	0.00
39) Acenaphthene-d10	9.89	164	448844	20.00	ng	-0.01
64) Phenanthrene-d10	11.37	188	736088	20.00	ng	-0.01
76) Chrysene-d12	14.02	240	618260	20.00	ng	-0.01
87) Perylene-d12	15.49	264	614397	20.00	ng	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) 2-Fluorophenol	5.48	112	349307	25.39	ng	-0.01
7) Phenol-d6	6.49	99	435117	25.28	ng	-0.01
23) Nitrobenzene-d5	7.40	82	267745	18.96	ng	-0.02
42) 2,4,6-Tribromophenol	10.67	330	114802	23.71	ng	-0.02
45) 2-Fluorobiphenyl	9.20	172	582270	19.02	ng	-0.01
79) Terphenyl-d14	12.96	244	475413	16.36	ng	-0.01

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
31) Naphthalene	8.15	128	110951	2.501	ng	98
52) Acenaphthene	9.92	154	92909	3.542	ng	98
55) Dibenzofuran	10.09	168	99681	2.513	ng	98
58) Fluorene	10.43	166	170493	5.753	ng	97
71) Phenanthrene	11.40	178	1079022	29.128	ng	98
72) Anthracene	11.45	178	370919	9.884	ng	99
75) Fluoranthene	12.59	202	1363108	34.851	ng	98
78) Pyrene	12.82	202	1277905	31.329	ng	99
81) Benzo(a)anthracene	14.00	228	686740	19.373	ng	99
83) Chrysene	14.04	228	591435	17.632	ng	98
86) Indeno(1,2,3-cd)pyrene	16.97	276	291453	9.418	ng	# 93
88) Benzo(b)fluoranthene	15.06	252	768693m	22.041	ng	
89) Benzo(k)fluoranthene	15.09	252	313027m	9.273	ng	
90) Benzo(a)pyrene	15.43	252	598089	18.700	ng	98
91) Dibenzo(a,h)anthracene	16.97	278	81067	2.854	ng	# 88
92) Benzo(g,h,i)perylene	17.42	276	264933	9.467	ng	96

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



#1

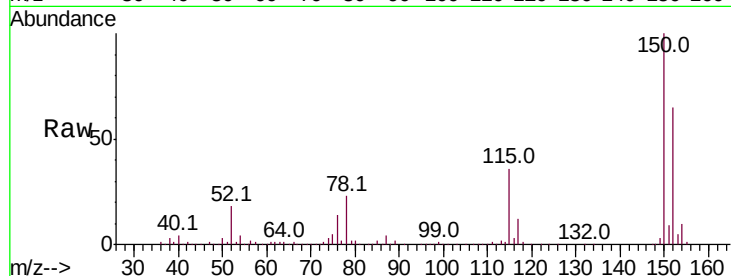
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.85 min Scan# 810
Delta R.T. -0.01 min
Lab File: BF112189.D
Acq: 22 Jan 2019 13:20

Instrument :
BNA_F
ClientSampleId :
PL-01-011819-A

Tot Ion	Ratio	Lower	Upper
152	100		
150	153.4	127.4	191.0
115	55.6	45.5	68.3

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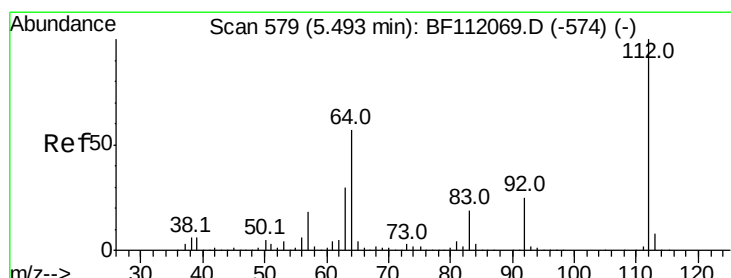
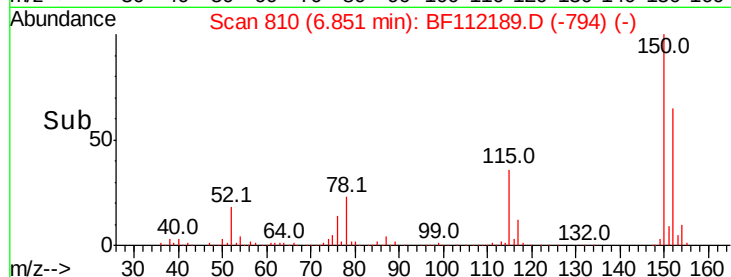
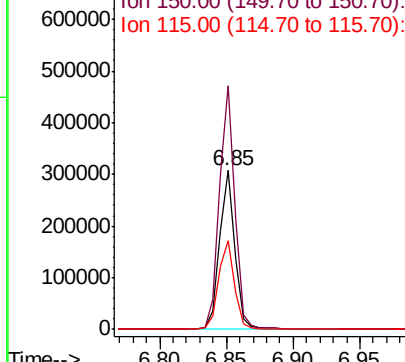


Abundance

Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

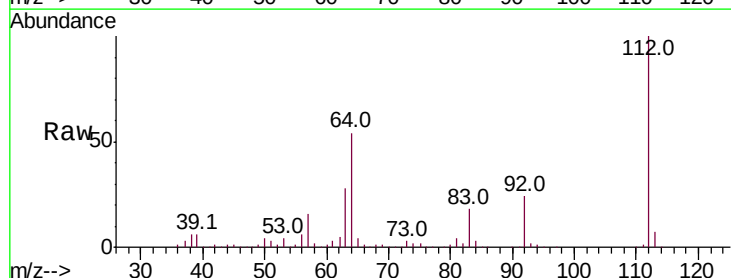
Ion 115.00 (114.70 to 115.70): E



#5

2-Fluorophenol
Concen: 25.393 ng
RT: 5.48 min Scan# 577
Delta R.T. -0.01 min
Lab File: BF112189.D
Acq: 22 Jan 2019 13:20

Tgt Ion	Ratio	Lower	Upper
112	100		
64	54.4	45.7	68.5
63	28.0	23.6	35.4

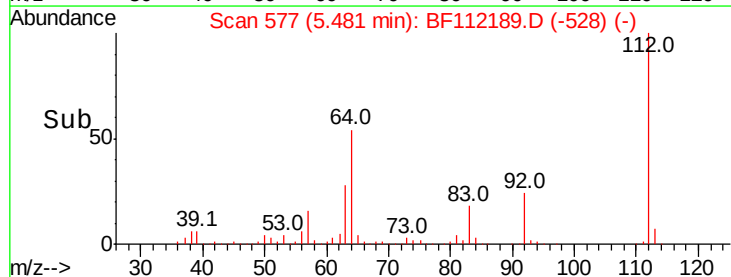
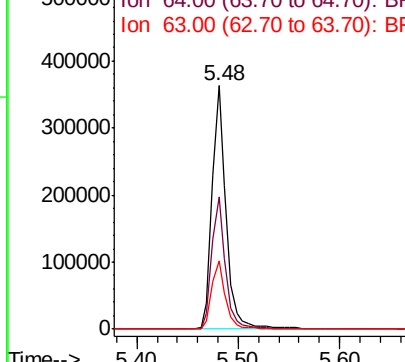


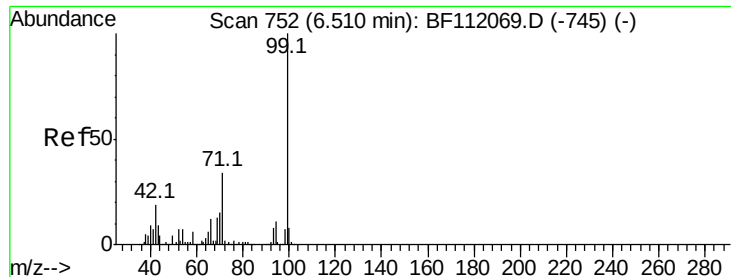
Abundance

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: 25.281 ng

RT: 6.49 min Scan# 749

Delta R.T. -0.01 min

Lab File: BF112189.D

Acq: 22 Jan 2019 13:20

Instrument :

BNA_F

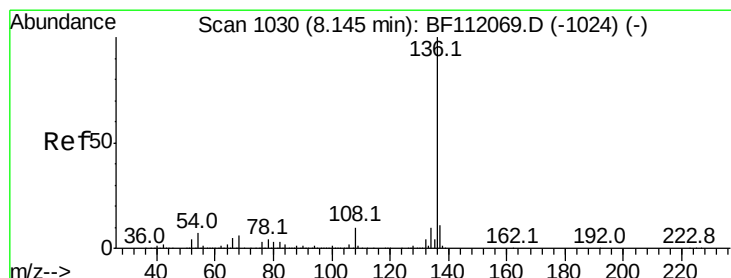
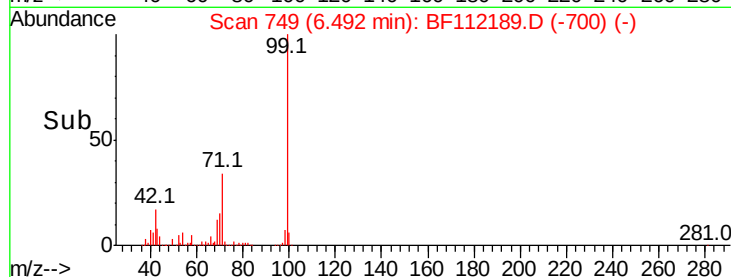
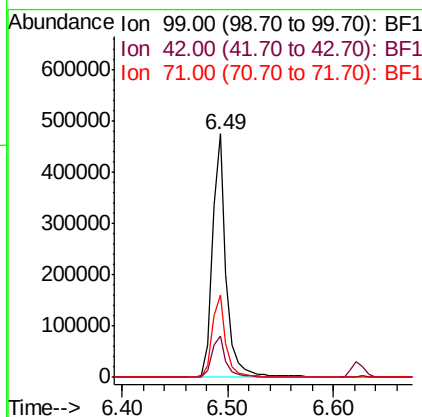
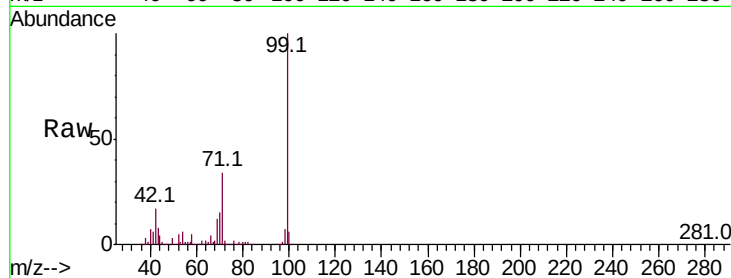
ClientSampleId :

PL-01-011819-A

Tot Ion:	99	Resp:	435117
Ion Ratio	Lower	Upper	
99	100		
42	17.3	15.1	22.7
71	33.6	26.9	40.3

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#21

Naphthalene-d8

Concen: 20.000 ng

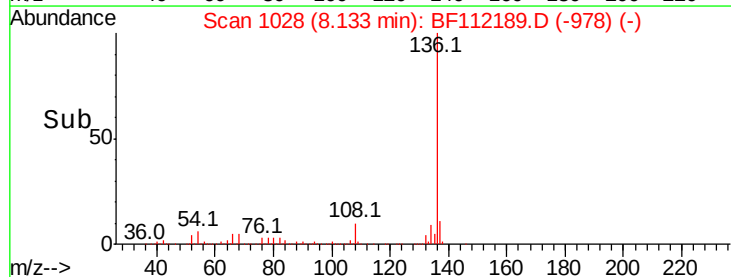
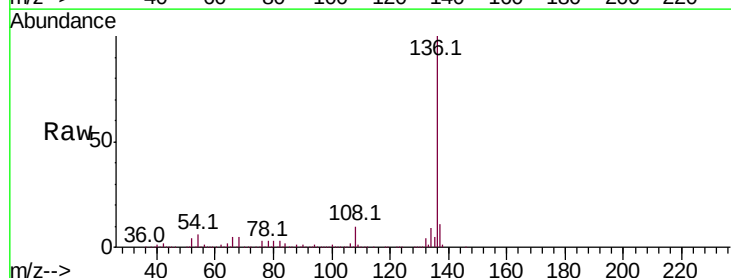
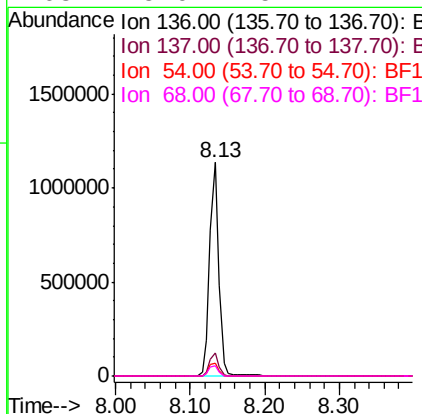
RT: 8.13 min Scan# 1028

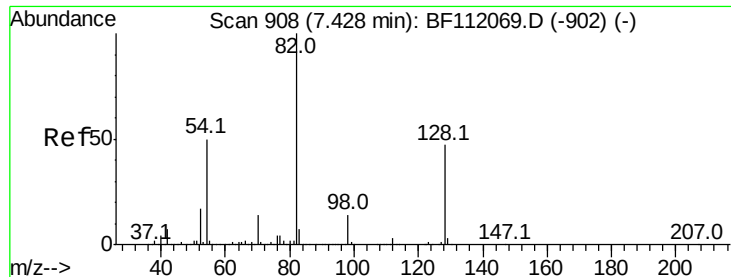
Delta R.T. -0.01 min

Lab File: BF112189.D

Acq: 22 Jan 2019 13:20

Tgt Ion:	136	Resp:	975421
Ion Ratio	Lower	Upper	
136	100		
137	11.0	9.1	13.7
54	6.1	5.9	8.9
68	5.0	5.1	7.7#





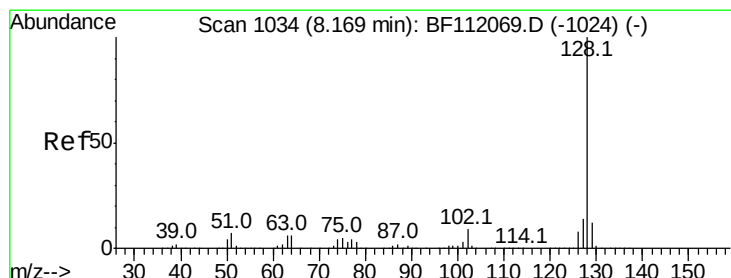
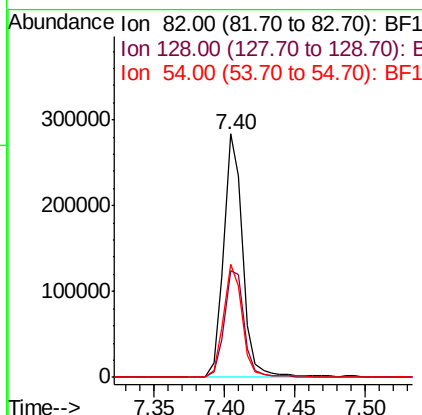
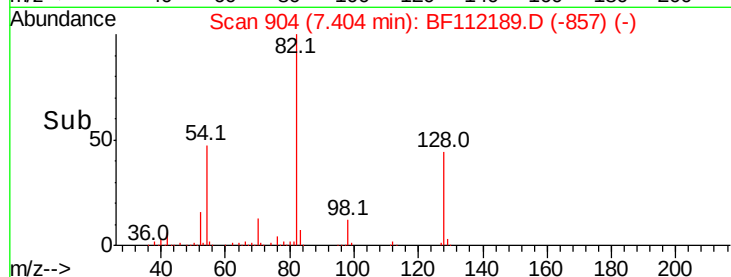
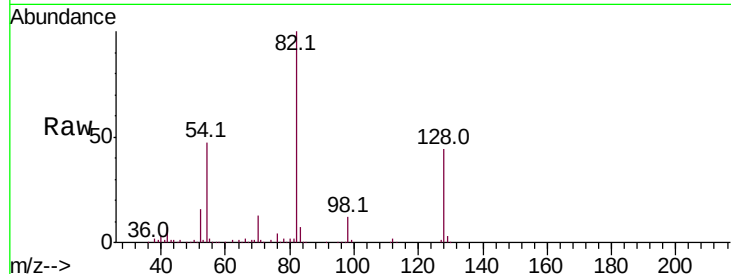
#23
Nitrobenzene-d5
Concen: 18.964 ng
RT: 7.40 min Scan# 904
Delta R.T. -0.02 min
Lab File: BF112189.D
Acq: 22 Jan 2019 13:20

Instrument :
BNA_F
ClientSampled :
PL-01-011819-A

Tot Ion	Ratio	Resp	Lower	Upper
82	100	267745		
128	43.6		37.8	56.8
54	46.5		39.7	59.5

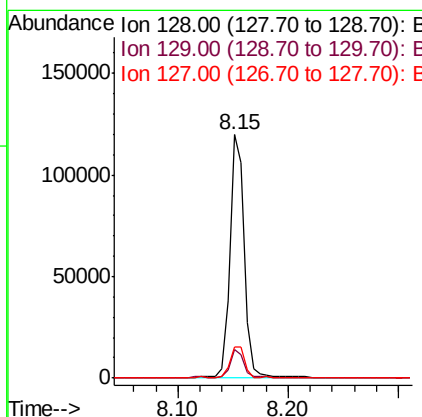
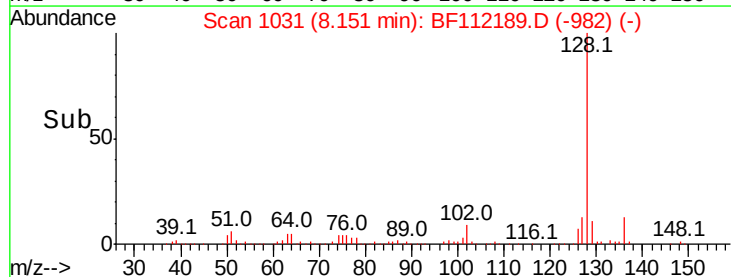
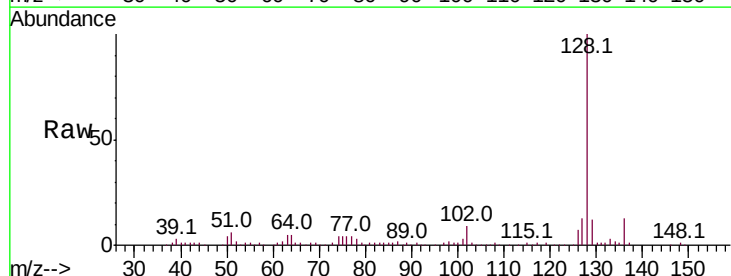
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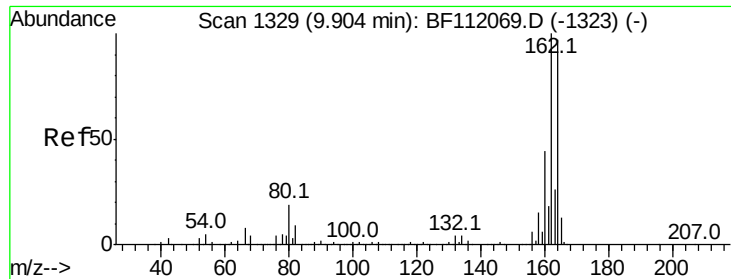
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#31
Naphthalene
Concen: 2.501 ng
RT: 8.15 min Scan# 1031
Delta R.T. -0.01 min
Lab File: BF112189.D
Acq: 22 Jan 2019 13:20

Tgt Ion	Ratio	Resp	Lower	Upper
128	100	110951		
129	11.5		9.6	14.4
127	12.9		11.1	16.7





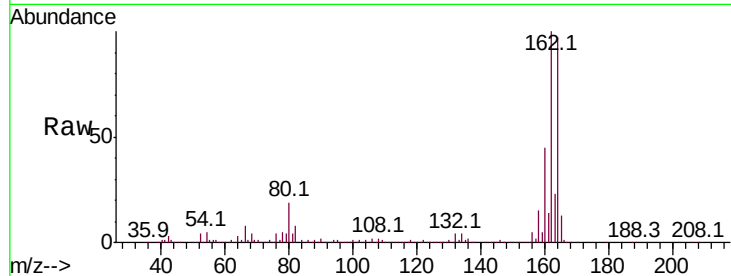
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.89 min Scan# 1326
Delta R.T. -0.01 min
Lab File: BF112189.D
Acq: 22 Jan 2019 13:20

Instrument :
BNA_F
ClientSampleId :
PL-01-011819-A

Tot Ion	Ratio	Resp	Lower	Upper
164	100			
162	102.9	82.2	123.4	
160	46.1	36.2	54.4	

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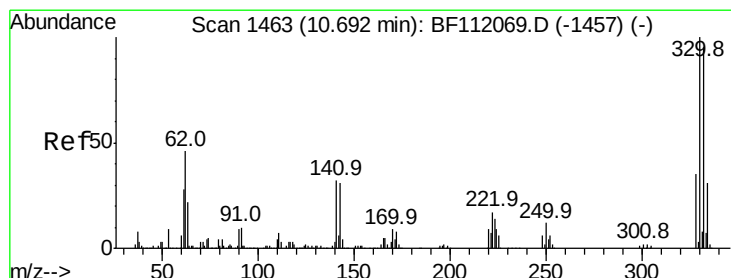
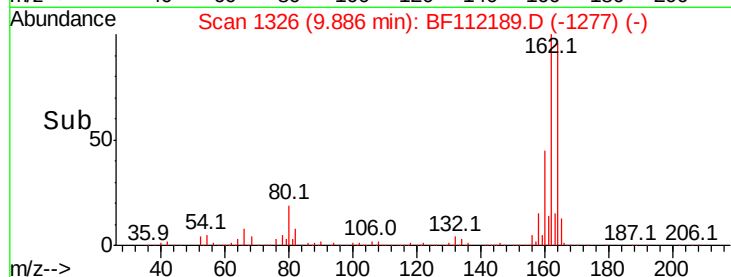
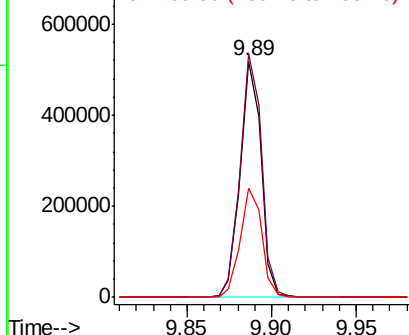


Abundance

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



#42
2,4,6-Tribromophenol
Concen: 23.709 ng
RT: 10.67 min Scan# 1460
Delta R.T. -0.02 min
Lab File: BF112189.D
Acq: 22 Jan 2019 13:20

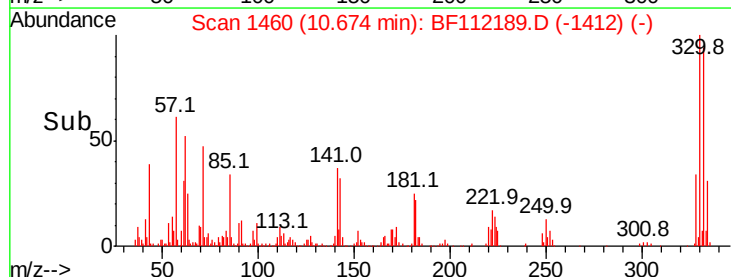
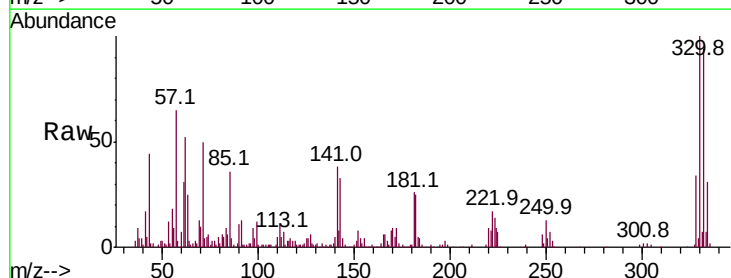
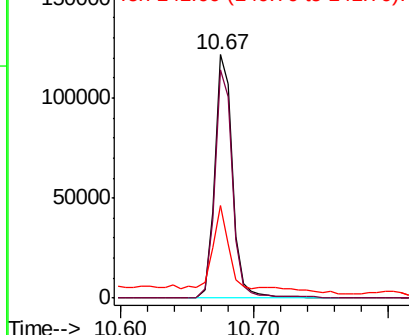
Tgt Ion	Ratio	Resp	Lower	Upper
330	100			
332	93.6	76.6	114.8	
141	28.1	24.3	36.5	

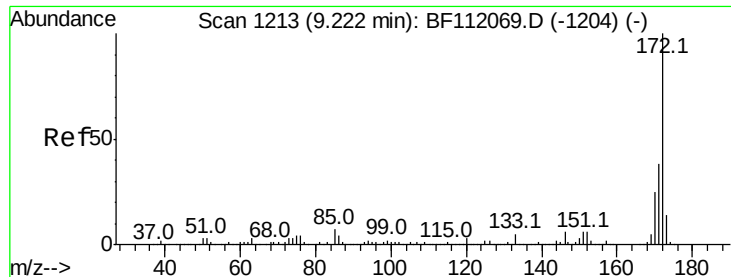
Abundance

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





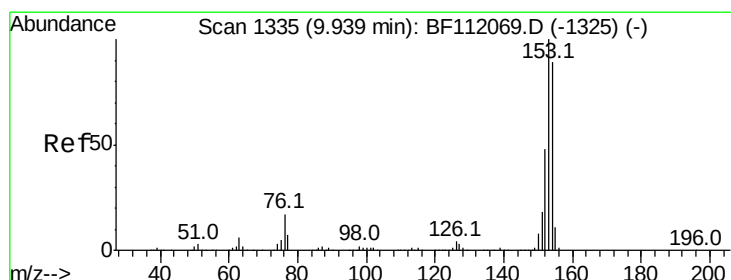
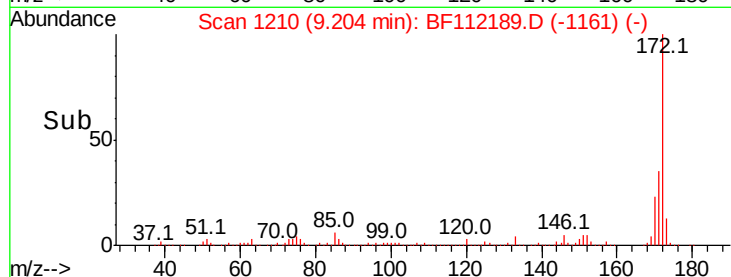
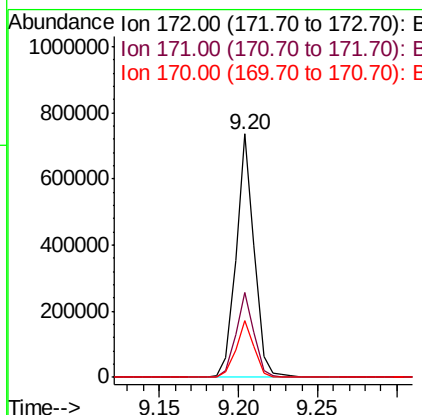
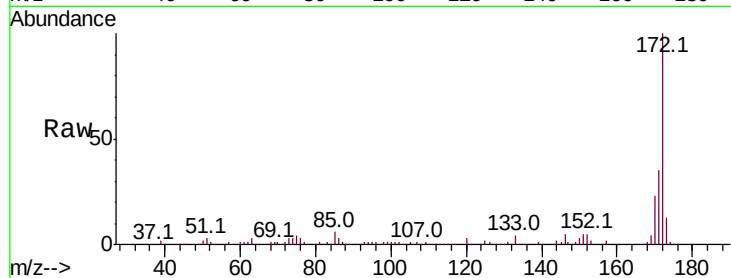
#45
2-Fluorobiphenyl
Concen: 19.019 ng
RT: 9.20 min Scan# 1210
Delta R.T. -0.01 min
Lab File: BF112189.D
Acq: 22 Jan 2019 13:20

Instrument :
BNA_F
ClientSampleId :
PL-01-011819-A

Tot Ion	Ratio	Lower	Upper
172	100		
171	35.0	30.5	45.7
170	23.2	20.2	30.4

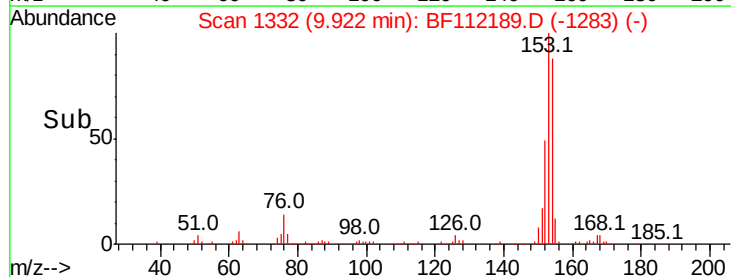
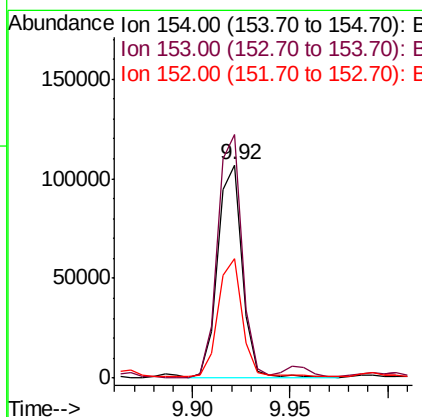
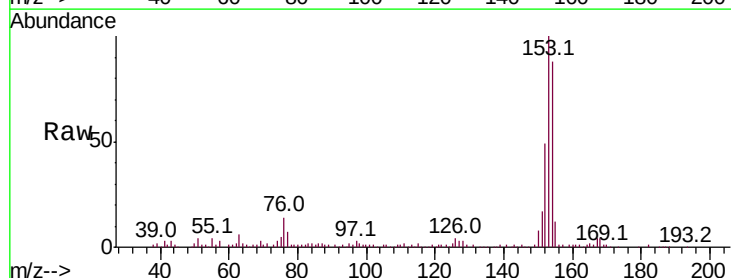
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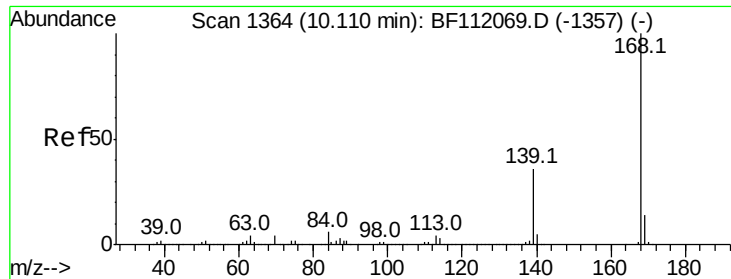
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#52
Acenaphthene
Concen: 3.542 ng
RT: 9.92 min Scan# 1332
Delta R.T. -0.01 min
Lab File: BF112189.D
Acq: 22 Jan 2019 13:20

Tgt Ion	Ratio	Lower	Upper
154	100		
153	114.2	89.8	134.6
152	56.2	43.5	65.3





#55

Dibenzofuran

Concen: 2.513 ng

RT: 10.09 min Scan# 1361

Delta R.T. -0.01 min

Lab File: BF112189.D

Acq: 22 Jan 2019 13:20

Instrument :

BNA_F

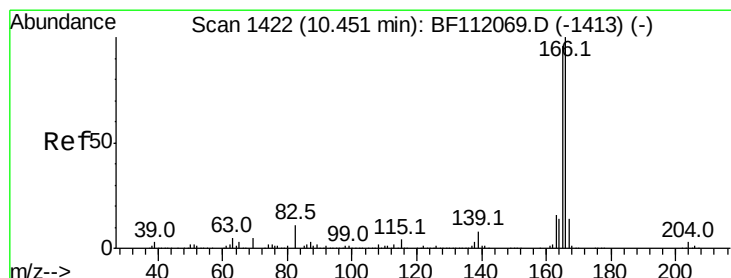
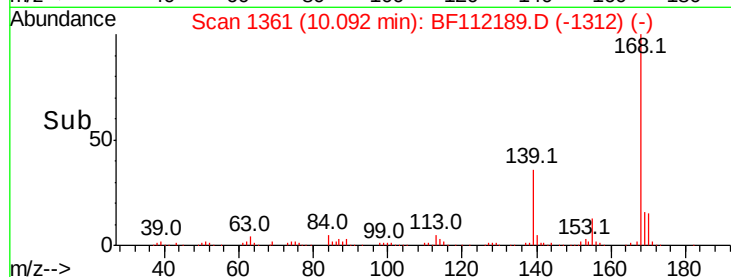
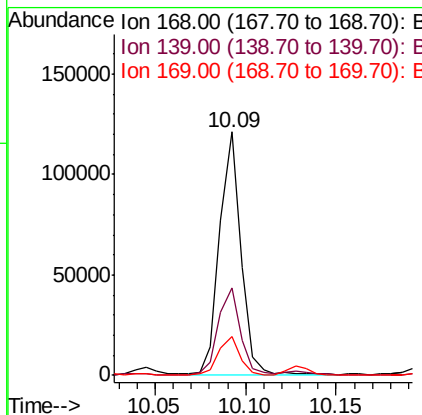
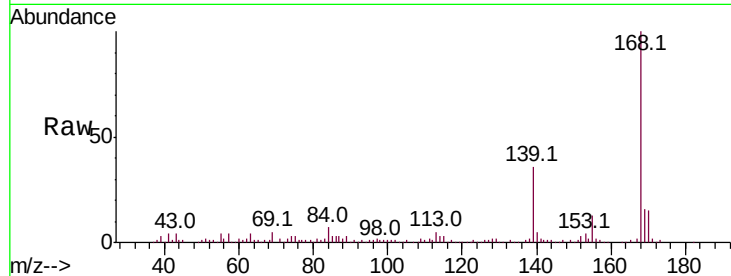
ClientSampleId :

PL-01-011819-A

Tot Ion:	168	Resp:	99681
Ion Ratio	Lower	Upper	
168	100		
139	35.9	29.2	43.8
169	16.1	11.4	17.0

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#58

Fluorene

Concen: 5.753 ng

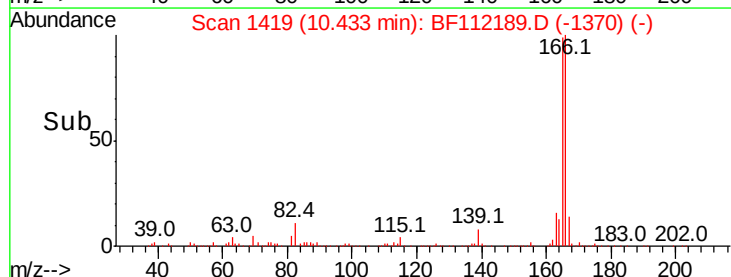
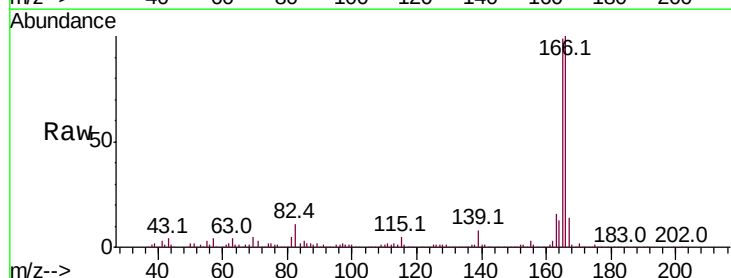
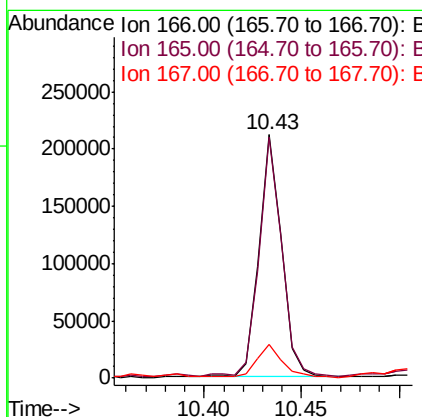
RT: 10.43 min Scan# 1419

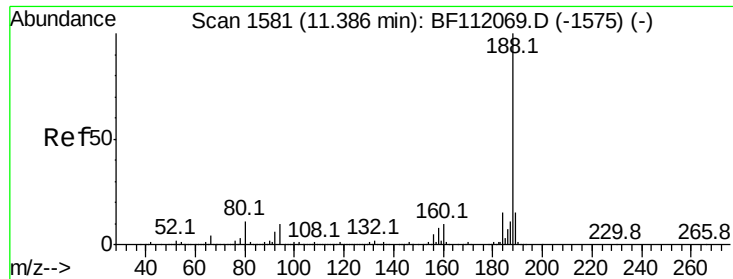
Delta R.T. -0.01 min

Lab File: BF112189.D

Acq: 22 Jan 2019 13:20

Tgt Ion:	166	Resp:	170493
Ion Ratio	Lower	Upper	
166	100		
165	99.2	77.1	115.7
167	14.1	11.3	16.9





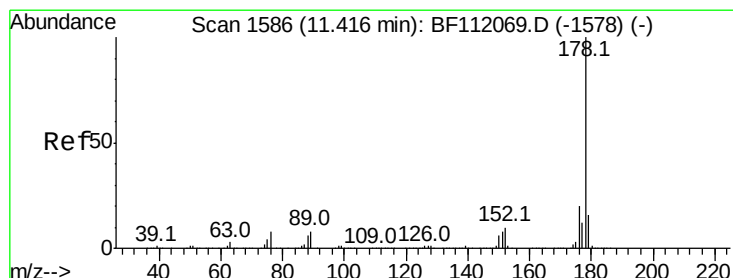
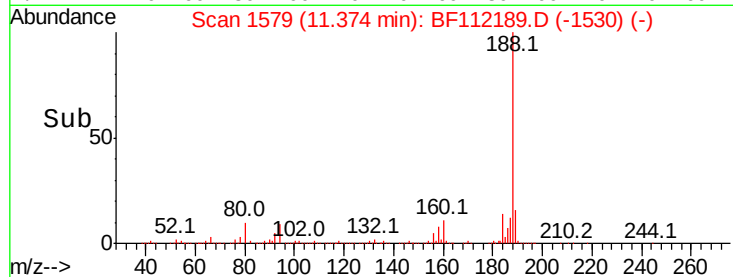
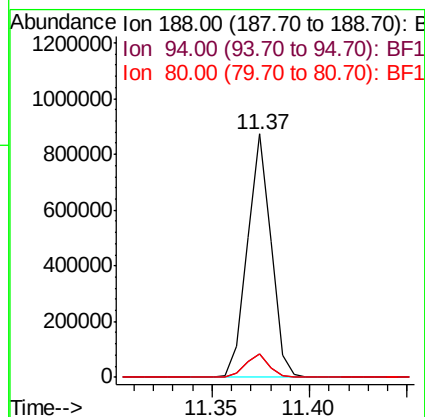
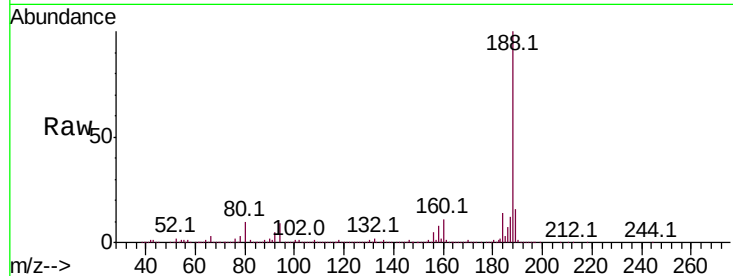
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.37 min Scan# 1579
Delta R.T. -0.01 min
Lab File: BF112189.D
Acq: 22 Jan 2019 13:20

Instrument :
BNA_F
ClientSampleId :
PL-01-011819-A

Tot Ion	Ratio	Resp Lower	Upper
188	100		
94	9.5	8.2	12.2
80	9.8	8.9	13.3

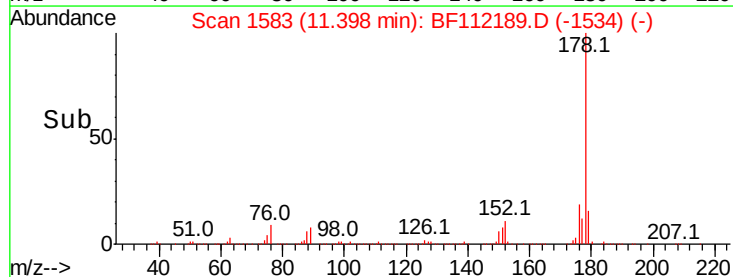
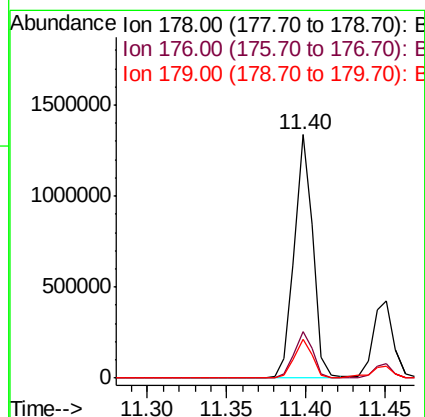
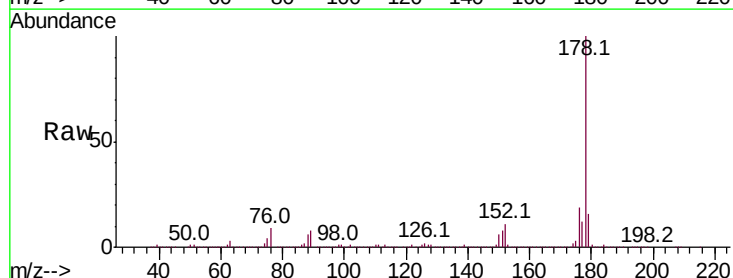
Manual Integrations
APPROVED

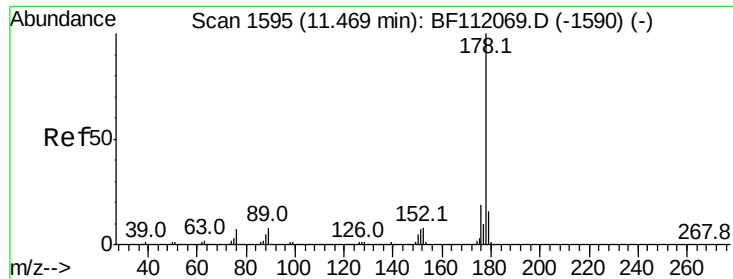
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#71
Phenanthrene
Concen: 29.128 ng
RT: 11.40 min Scan# 1583
Delta R.T. -0.01 min
Lab File: BF112189.D
Acq: 22 Jan 2019 13:20

Tgt Ion	Ratio	Resp Lower	Upper
178	100		
176	19.3	16.3	24.5
179	15.8	13.0	19.4





#72

Anthracene

Concen: 9.884 ng

RT: 11.45 min Scan# 1592

Delta R.T. -0.01 min

Lab File: BF112189.D

Acq: 22 Jan 2019 13:20

Instrument :

BNA_F

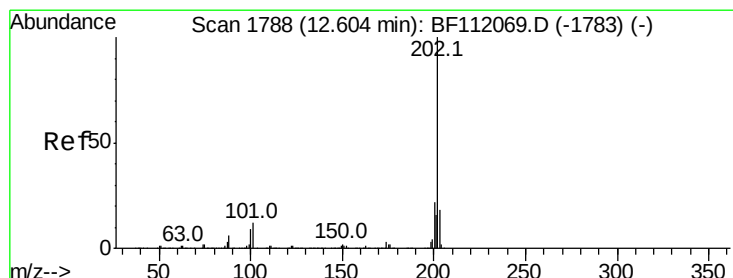
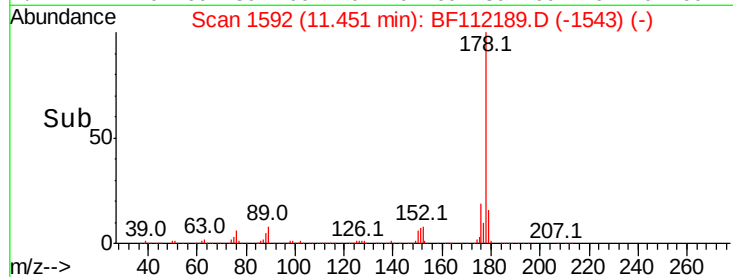
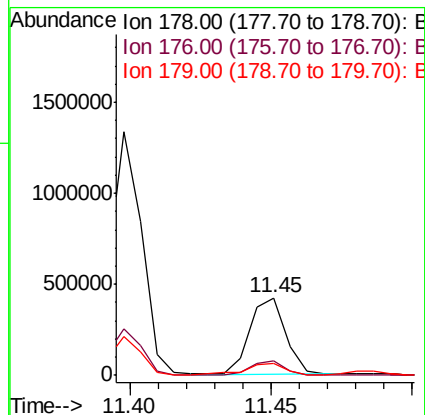
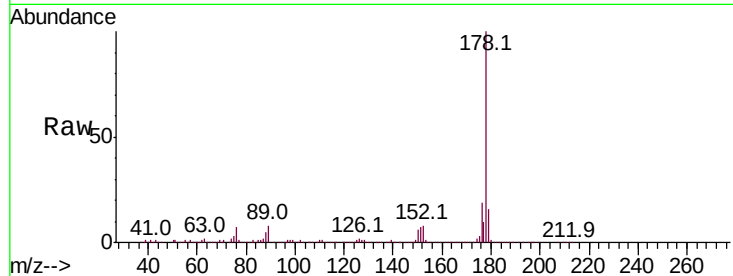
ClientSampleId :

PL-01-011819-A

Tot Ion:	178	Resp:	370919
Ion Ratio	Lower	Upper	
178	100		
176	18.7	15.5	23.3
179	15.9	12.8	19.2

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#75

Fluoranthene

Concen: 34.851 ng

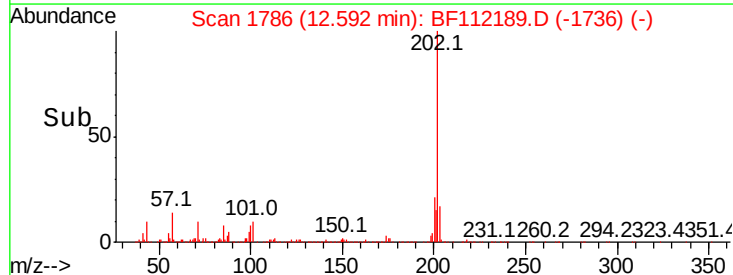
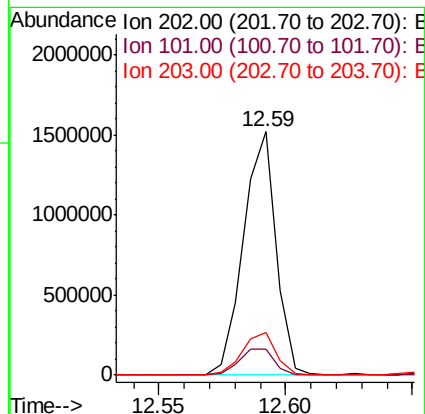
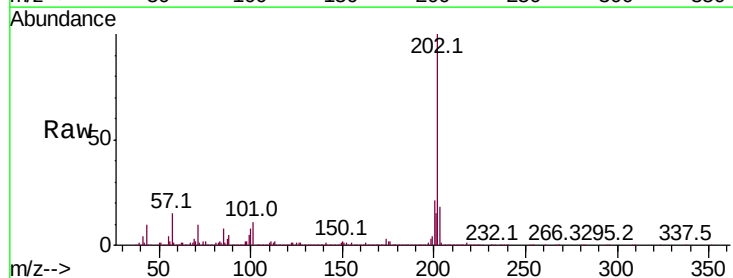
RT: 12.59 min Scan# 1786

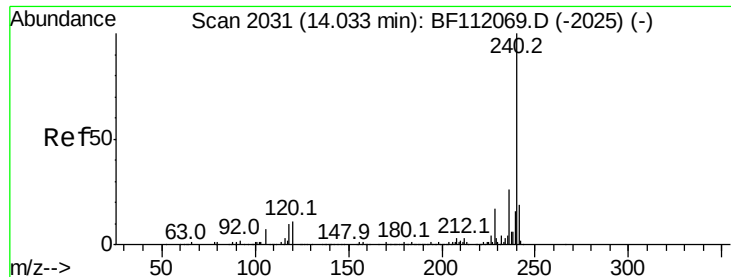
Delta R.T. -0.01 min

Lab File: BF112189.D

Acq: 22 Jan 2019 13:20

Tgt Ion:	202	Resp:	1363108
Ion Ratio	Lower	Upper	
202	100		
101	10.5	0.0	31.8
203	17.5	0.0	38.4





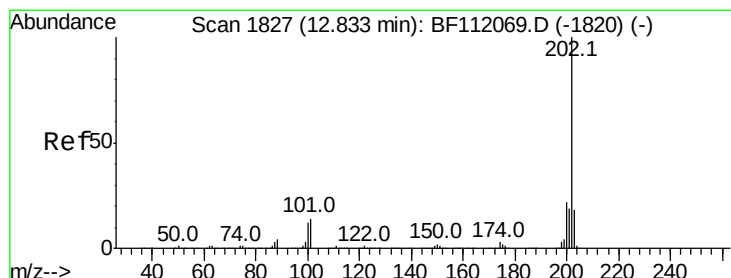
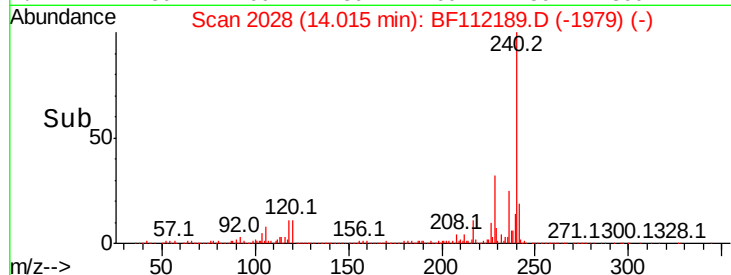
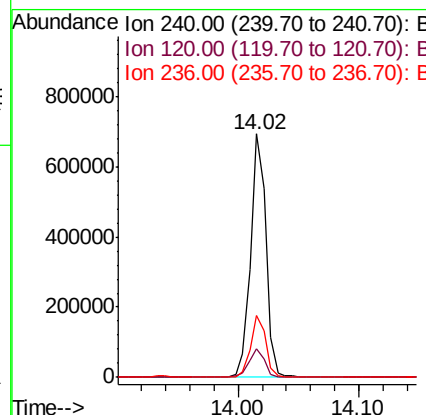
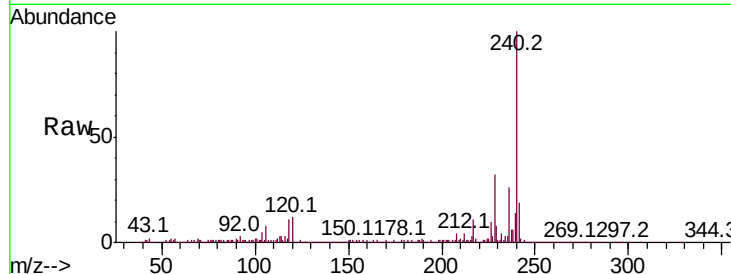
#76
 Chrysene-d12
 Concen: 20.000 ng
 RT: 14.02 min Scan# 2028
 Delta R.T. -0.01 min
 Lab File: BF112189.D
 Acq: 22 Jan 2019 13:20

Instrument :
 BNA_F
 ClientSampleId :
 PL-01-011819-A

Tot Ion	Ratio	Lower	Upper
240	100		
120	11.6	9.0	13.6
236	25.5	20.7	31.1

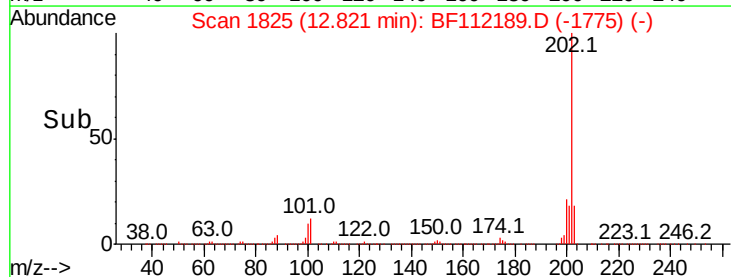
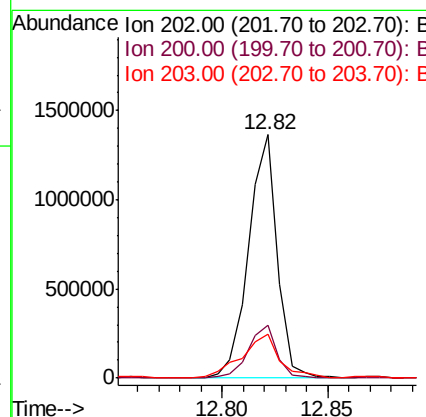
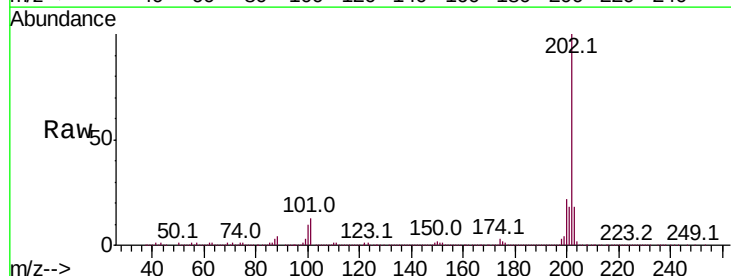
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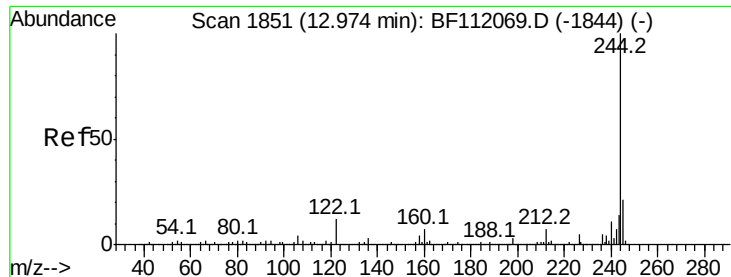
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#78
 Pyrene
 Concen: 31.329 ng
 RT: 12.82 min Scan# 1825
 Delta R.T. -0.01 min
 Lab File: BF112189.D
 Acq: 22 Jan 2019 13:20

Tgt Ion	Ratio	Lower	Upper
202	100		
200	21.5	17.7	26.5
203	18.3	14.6	22.0





#79

Terphenyl-d14

Concen: 16.359 ng

RT: 12.96 min Scan# 1848

Delta R.T. -0.01 min

Lab File: BF112189.D

Acq: 22 Jan 2019 13:20

Instrument :

BNA_F

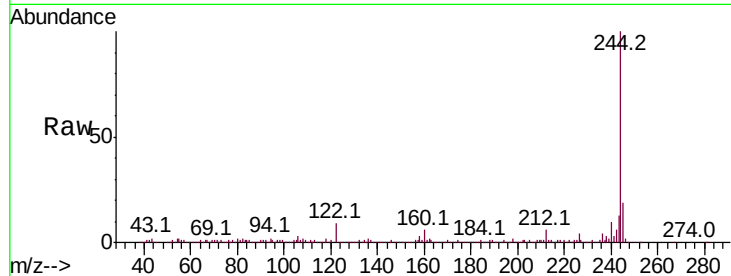
ClientSampleId :

PL-01-011819-A

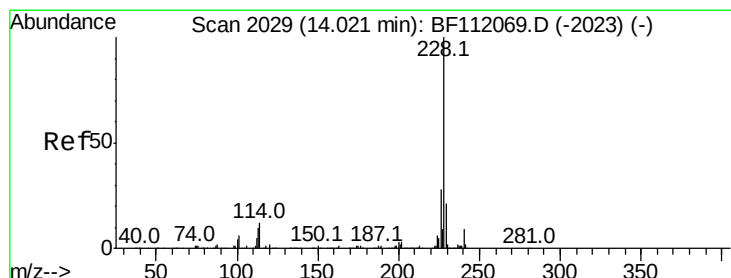
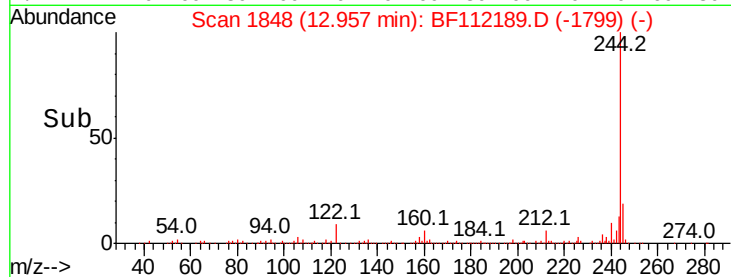
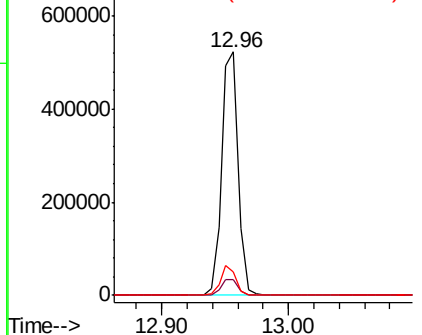
Tot Ion:	244	Resp:	475413
Ion Ratio	Lower	Upper	
244	100		
212	6.2	5.9	8.9
122	9.5	9.8	14.6

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



#81

Benzo(a)anthracene

Concen: 19.373 ng

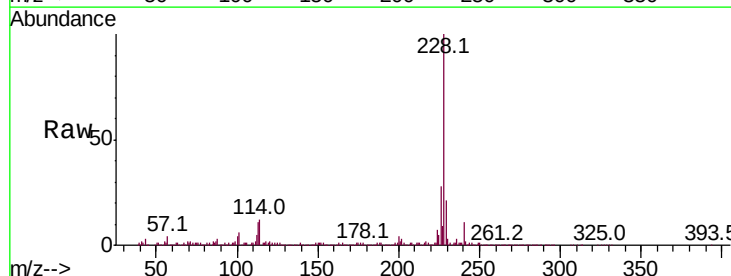
RT: 14.00 min Scan# 2026

Delta R.T. -0.01 min

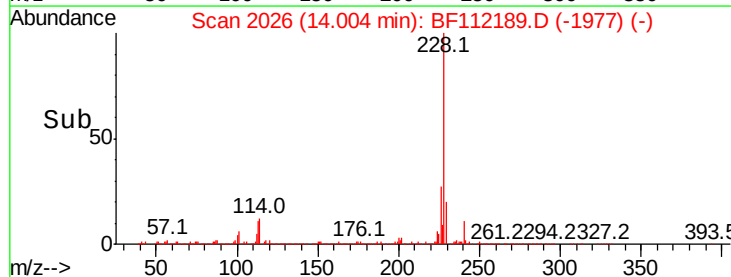
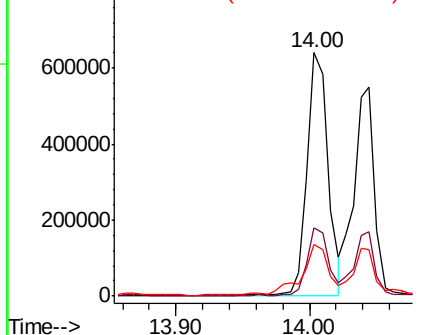
Lab File: BF112189.D

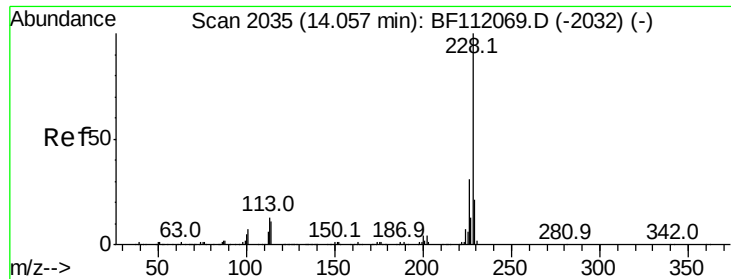
Acq: 22 Jan 2019 13:20

Tgt Ion:	228	Resp:	686740
Ion Ratio	Lower	Upper	
228	100		
226	28.0	22.6	34.0
229	21.0	16.5	24.7



Abundance Ion 228.00 (227.70 to 228.70): E
Ion 226.00 (225.70 to 226.70): E
Ion 229.00 (228.70 to 229.70): E





#83

Chrysene

Concen: 17.632 ng

RT: 14.04 min Scan# 2033

Delta R.T. -0.01 min

Lab File: BF112189.D

Acq: 22 Jan 2019 13:20

Instrument :

BNA_F

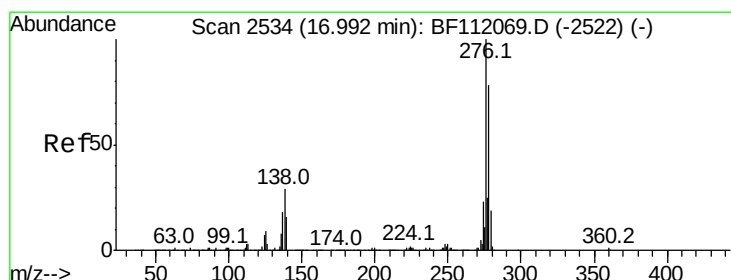
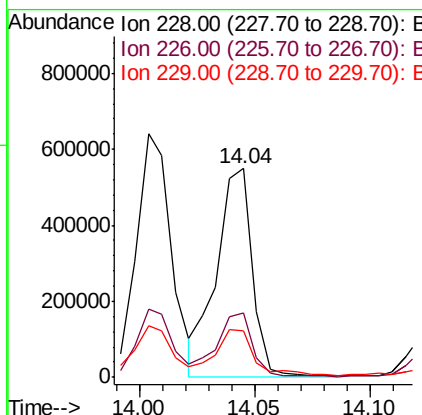
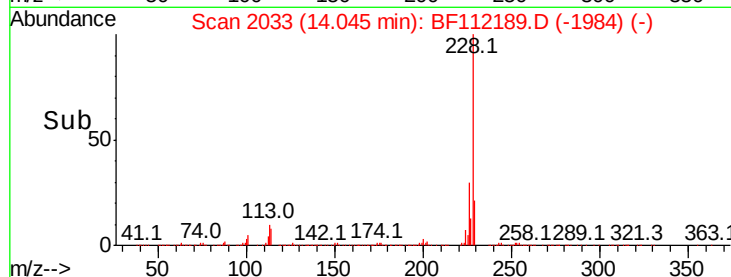
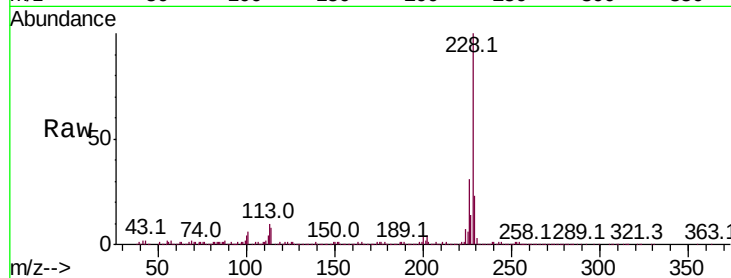
ClientSampleId :

PL-01-011819-A

Tot Ion:	228	Resp:	591435
Ion Ratio	Lower	Upper	
228	100		
226	30.8	25.0	37.6
229	22.5	16.6	24.8

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#86

Indeno(1,2,3-cd)pyrene

Concen: 9.418 ng

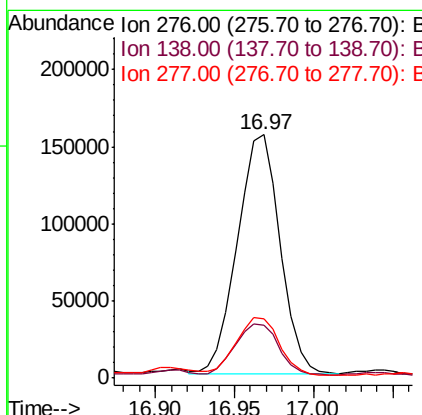
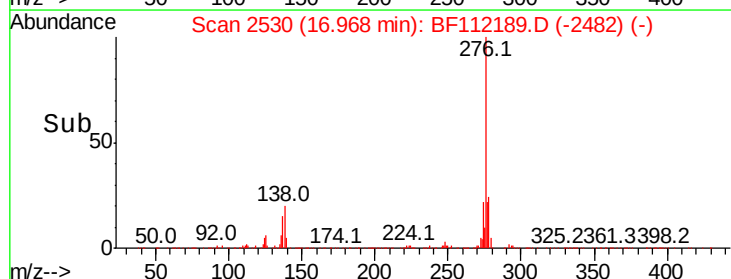
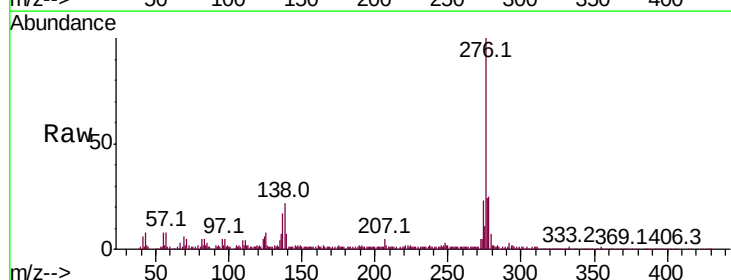
RT: 16.97 min Scan# 2530

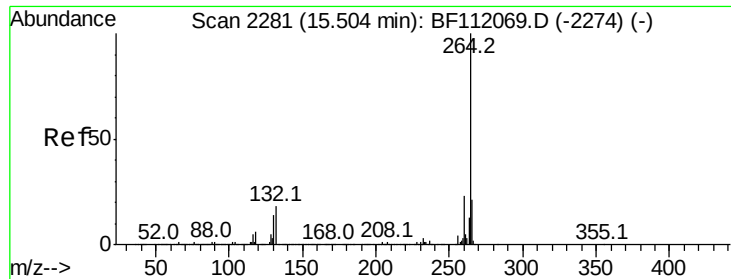
Delta R.T. -0.02 min

Lab File: BF112189.D

Acq: 22 Jan 2019 13:20

Tgt Ion:	276	Resp:	291453
Ion Ratio	Lower	Upper	
276	100		
138	22.4	22.6	34.0#
277	24.6	20.3	30.5





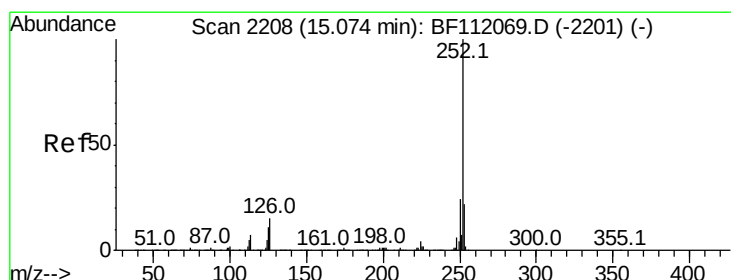
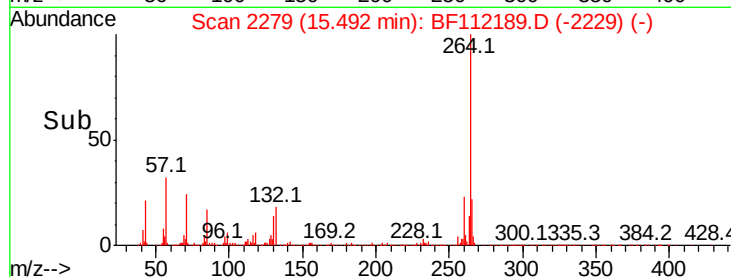
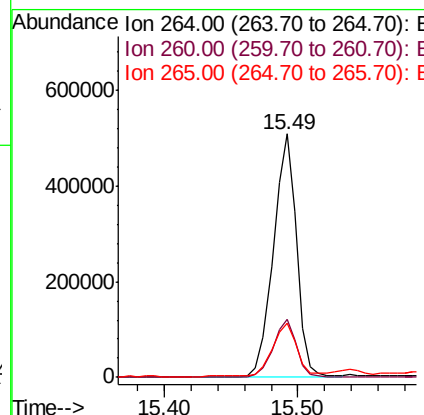
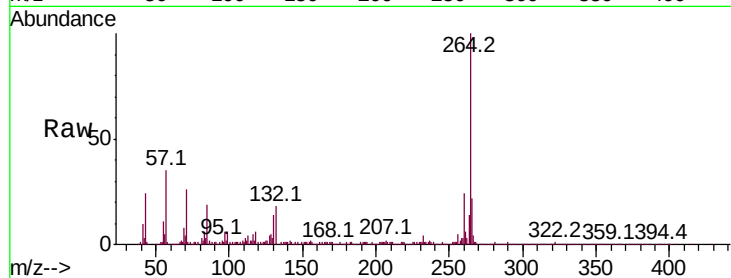
#87
Pervlene-d12
Concen: 20.000 ng
RT: 15.49 min Scan# 2279
Delta R.T. -0.01 min
Lab File: BF112189.D
Acq: 22 Jan 2019 13:20

Instrument :
BNA_F
ClientSampleId :
PL-01-011819-A

Tot Ion	Ratio	Lower	Upper
264	100		
260	23.7	18.2	27.2
265	22.2	17.0	25.4

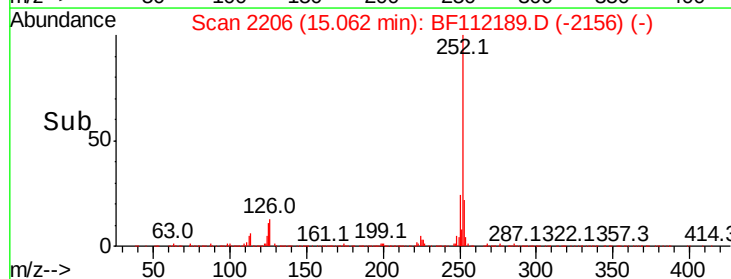
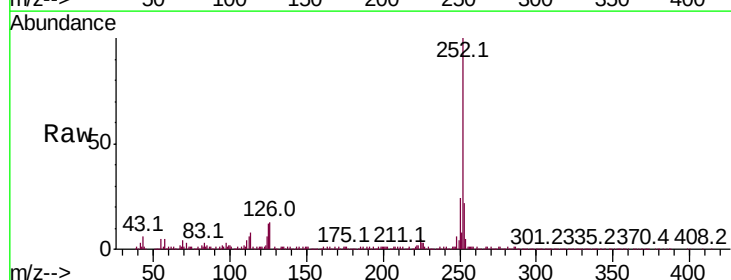
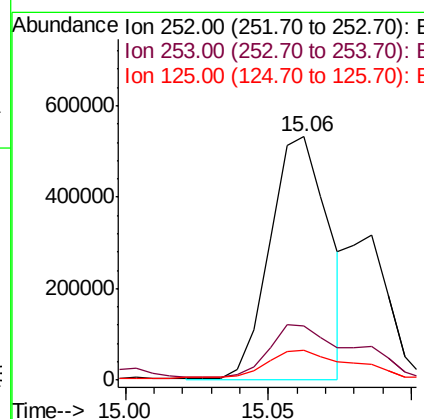
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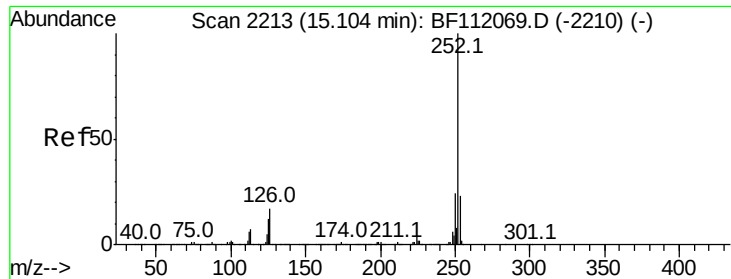
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#88
Benzo(b)fluoranthene
Concen: 22.041 ng m
RT: 15.06 min Scan# 2206
Delta R.T. -0.01 min
Lab File: BF112189.D
Acq: 22 Jan 2019 13:20

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.3	18.0	27.0
125	12.1	8.7	13.1





#89

Benzo(k)fluoranthene

Concen: 9.273 ng/mL

RT: 15.09 min Scan# 2210

Delta R.T. -0.01 min

Lab File: BF112189.D

Acq: 22 Jan 2019 13:20

Instrument :

BNA_F

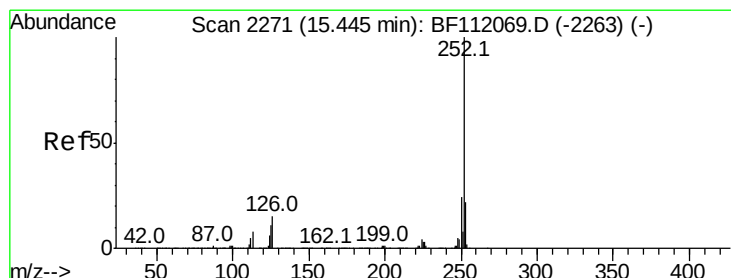
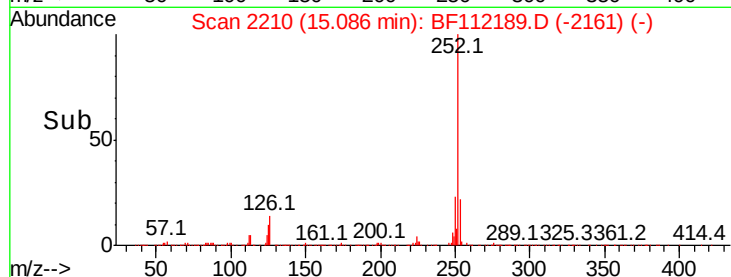
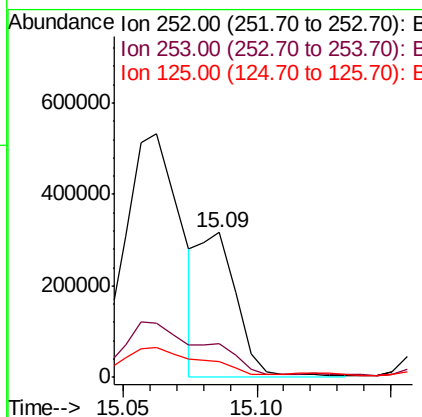
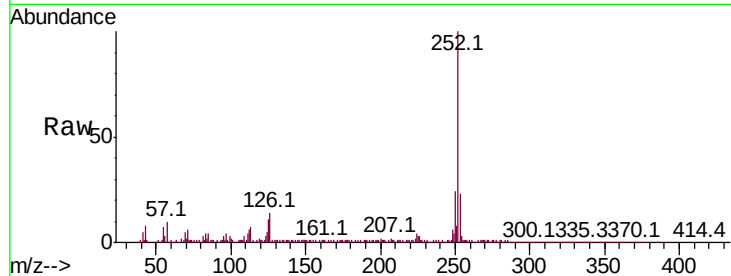
ClientSampleId :

PL-01-011819-A

Tot Ion:	252	Resp:	313027
Ion Ratio	Lower	Upper	
252	100		
253	23.5	18.0	27.0
125	11.1	9.1	13.7

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#90

Benzo(a)pyrene

Concen: 18.700 ng/mL

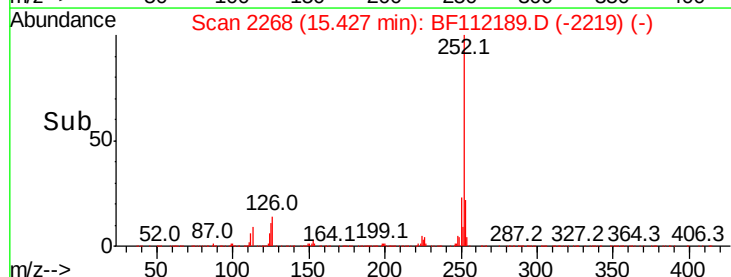
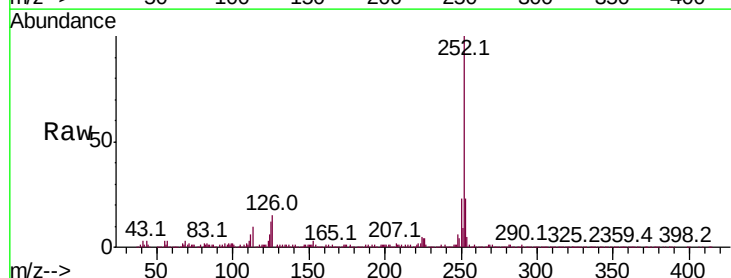
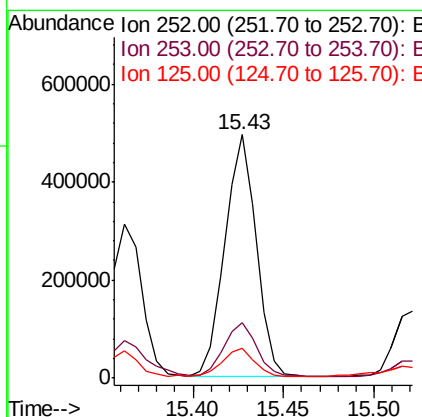
RT: 15.43 min Scan# 2268

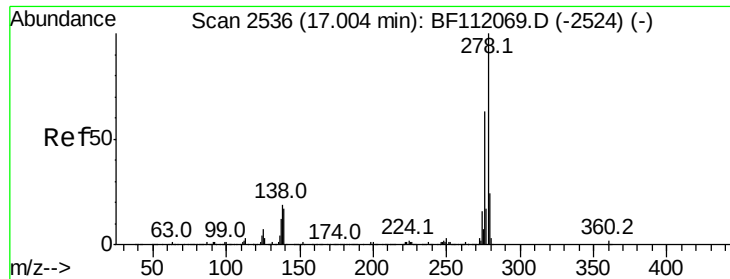
Delta R.T. -0.01 min

Lab File: BF112189.D

Acq: 22 Jan 2019 13:20

Tgt Ion:	252	Resp:	598089
Ion Ratio	Lower	Upper	
252	100		
253	22.7	17.5	26.3
125	12.1	9.0	13.4





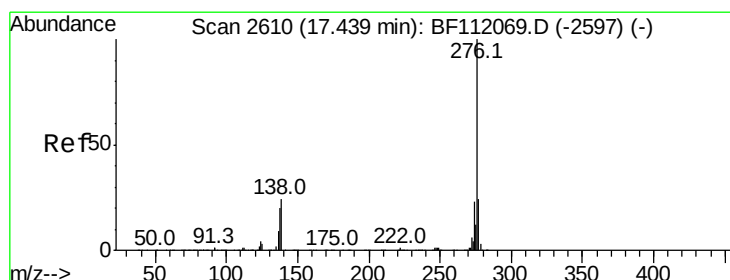
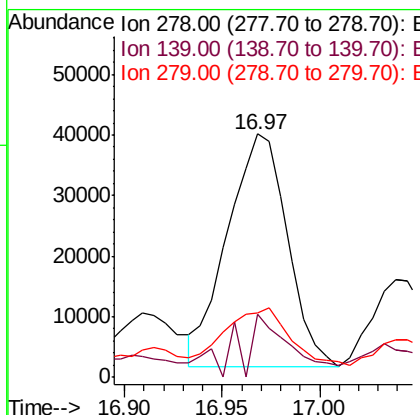
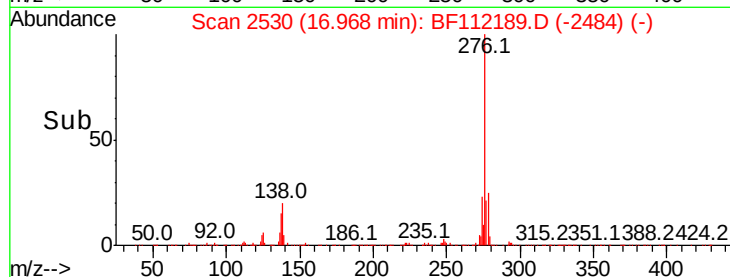
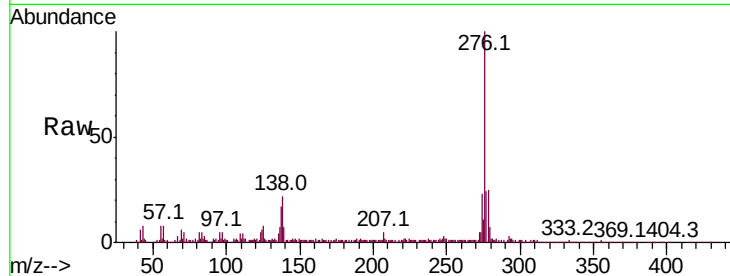
#91
Dibenzo(a,h)anthracene
Concen: 2.854 ng
RT: 16.97 min Scan# 2530
Delta R.T. -0.03 min
Lab File: BF112189.D
Acq: 22 Jan 2019 13:20

Instrument :
BNA_F
ClientSampled :
PL-01-011819-A

Tot Ion	Ratio	Lower	Upper
278	100		
139	25.7	13.7	20.5#
279	26.6	19.0	28.6

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#92
Benzo(g,h,i)perylene
Concen: 9.467 ng
RT: 17.42 min Scan# 2606
Delta R.T. -0.01 min
Lab File: BF112189.D
Acq: 22 Jan 2019 13:20

Tgt Ion	Ratio	Lower	Upper
276	100		
277	25.2	19.4	29.0
138	21.2	19.1	28.7

