

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF031219\
 Data File : BF113026.D
 Acq On : 13 Mar 2019 8:24
 Operator : JU/SJ
 Sample : K1650-12DL 5X
 Misc :
 ALS Vial : 27 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 B-6(4-5)DL

Manual Integrations
 APPROVED

Sohil
 3/13/2019 11:40:59 AM

Quant Time: Mar 13 09:28:58 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF022719.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Mar 13 03:42:55 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.73	152	148191	20.00	ng	0.00
21) Naphthalene-d8	8.01	136	521947	20.00	ng	0.00
39) Acenaphthene-d10	9.76	164	257068	20.00	ng	0.00
64) Phenanthrene-d10	11.24	188	471955	20.00	ng	0.00
76) Chrysene-d12	13.87	240	403100	20.00	ng	0.00
87) Perylene-d12	15.27	264	405919	20.00	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.33	112	180669	18.96	ng	-0.01
7) Phenol-d6	6.36	99	264496	22.10	ng	-0.01
23) Nitrobenzene-d5	7.29	82	139355	15.98	ng	-0.01
42) 2,4,6-Tribromophenol	10.54	330	67646	24.79	ng	0.00
45) 2-Fluorobiphenyl	9.09	172	306017	15.16	ng	0.00
79) Terphenyl-d14	12.82	244	278565	13.40	ng	0.00
Target Compounds						
52) Acenaphthene	9.79	154	40598	2.498	ng	97
58) Fluorene	10.30	166	63733	3.801	ng	99
71) Phenanthrene	11.26	178	917150	39.058	ng	99
72) Anthracene	11.32	178	271535	11.047	ng	97
73) Carbazole	11.47	167	80988	3.378	ng	97
75) Fluoranthene	12.45	202	1529894	60.812	ng	97
78) Pyrene	12.67	202	1368917	40.283	ng	99
81) Benzo(a)anthracene	13.86	228	827479	29.619	ng	98
83) Chrysene	13.89	228	721390	26.361	ng	97
86) Indeno(1,2,3-cd)pyrene	16.63	276	377528m	16.182	ng	
88) Benzo(b)fluoranthene	14.88	252	936861m	35.682	ng	
89) Benzo(k)fluoranthene	14.90	252	362855m	15.257	ng	
90) Benzo(a)pyrene	15.22	252	681321	29.337	ng	96
91) Dibenzo(a,h)anthracene	16.64	278	99029	4.997	ng	96
92) Benzo(a,h,i)perylene	17.04	276	328814	16.524	ng	96

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

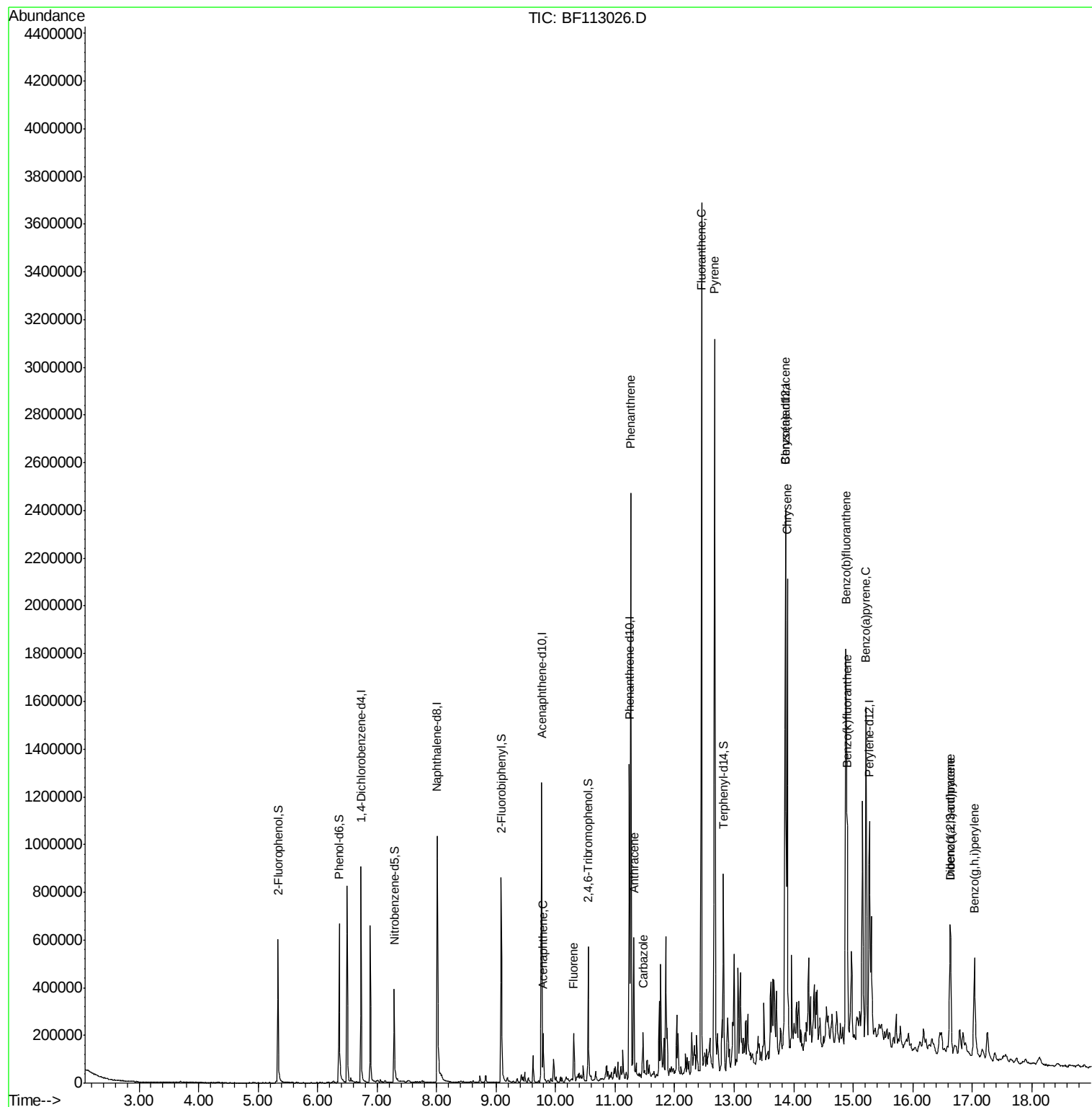
Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF031219\
Data File : BF113026.D
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Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF022719.M
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#1

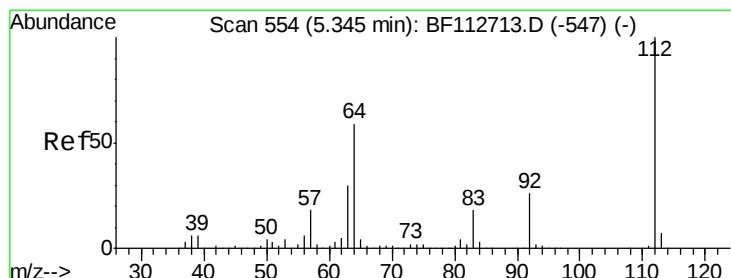
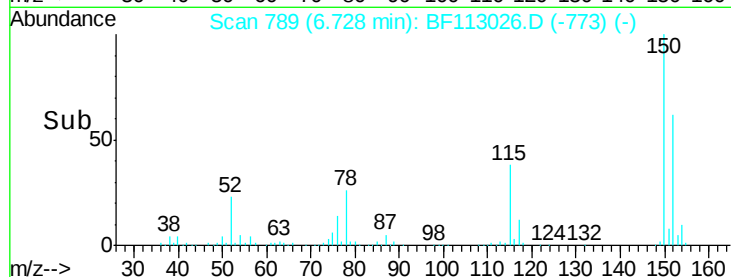
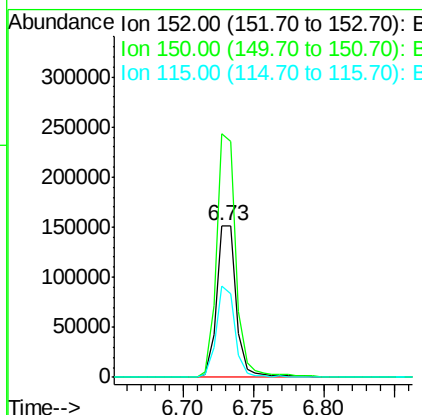
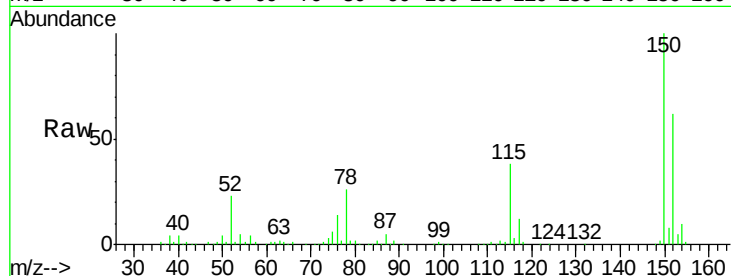
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.73 min Scan# 789
Delta R.T. -0.01 min
Lab File: BF113026.D
Acq: 13 Mar 2019 8:24

Instrument :
BNA_F
ClientSampleId :
B-6(4-5)DL

Tot Ion	Ratio	Lower	Upper
152	100		
150	160.2	124.2	186.2
115	60.2	48.2	72.4

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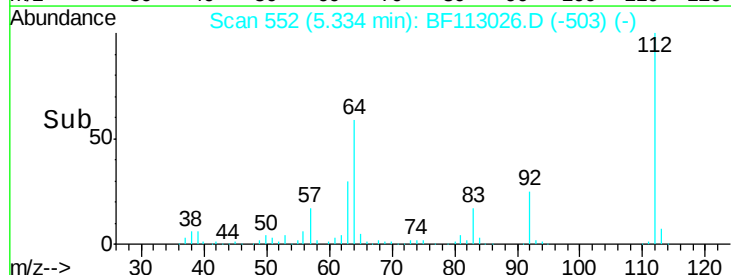
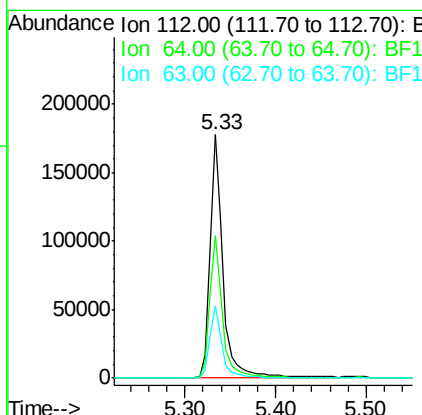
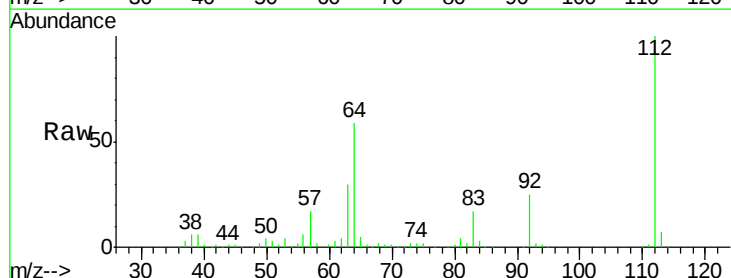
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#5

2-Fluorophenol
Concen: 18.965 ng
RT: 5.33 min Scan# 552
Delta R.T. -0.01 min
Lab File: BF113026.D
Acq: 13 Mar 2019 8:24

Tgt Ion	Ratio	Lower	Upper
112	100		
64	58.8	47.6	71.4
63	29.7	24.4	36.6





#7

Phenol-d6

Concen: 22.102 ng

RT: 6.36 min Scan# 727

Delta R.T. -0.01 min

Lab File: BF113026.D

Acq: 13 Mar 2019 8:24

Instrument :

BNA_F

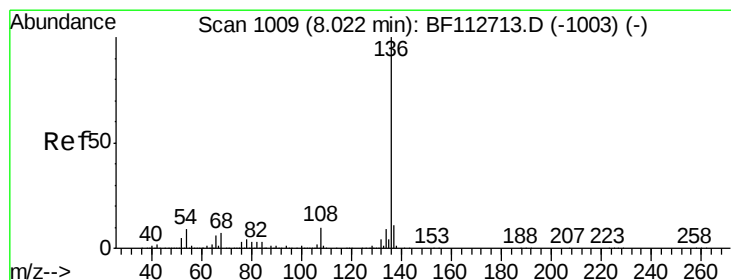
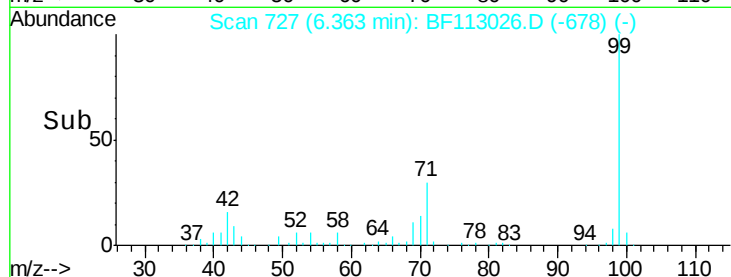
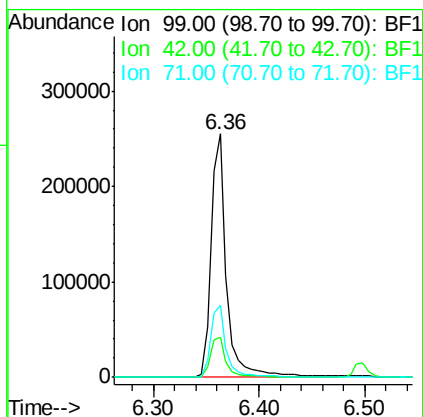
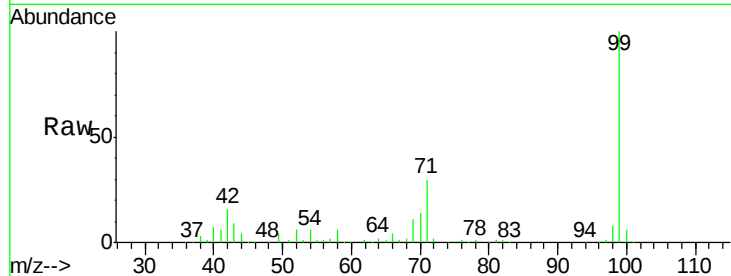
ClientSampleId :

B-6(4-5)DL

Tot Ion:	99	Resp:	264496
Ion Ratio	Lower	Upper	
99	100		
42	16.4	16.3	24.5
71	29.6	26.2	39.4

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#21

Naphthalene-d8

Concen: 20.000 ng

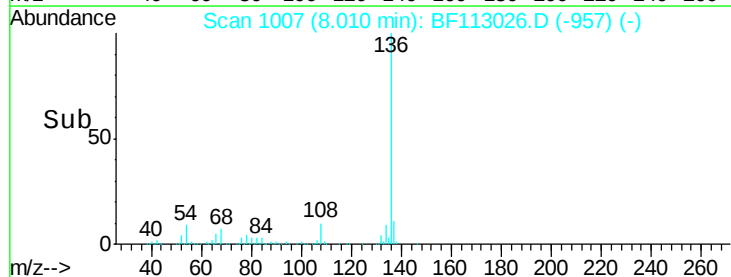
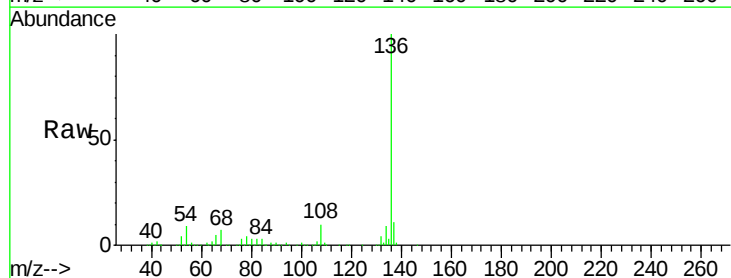
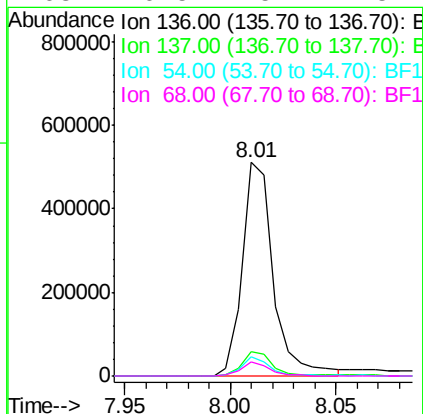
RT: 8.01 min Scan# 1007

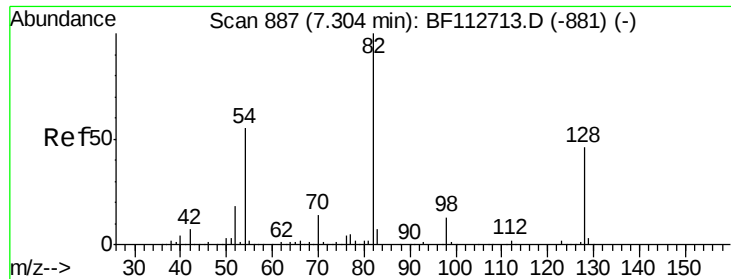
Delta R.T. -0.01 min

Lab File: BF113026.D

Acq: 13 Mar 2019 8:24

Tgt Ion:	136	Resp:	521947
Ion Ratio	Lower	Upper	
136	100		
137	11.4	8.9	13.3
54	8.8	7.3	10.9
68	6.5	5.4	8.2





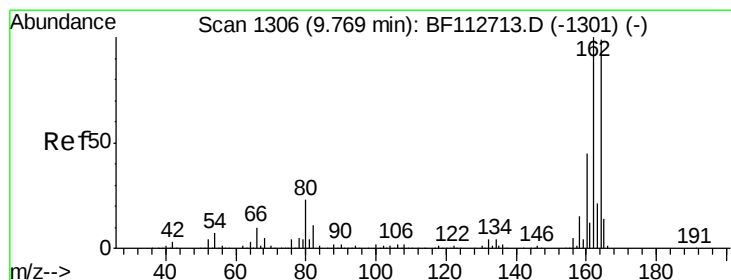
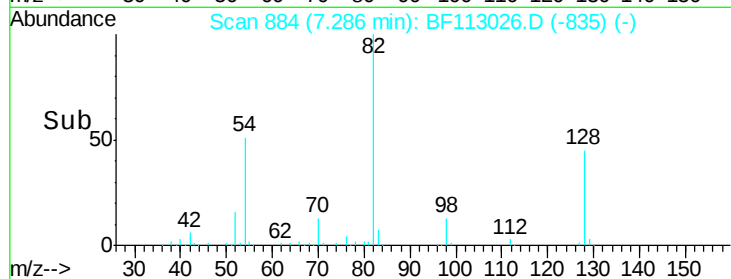
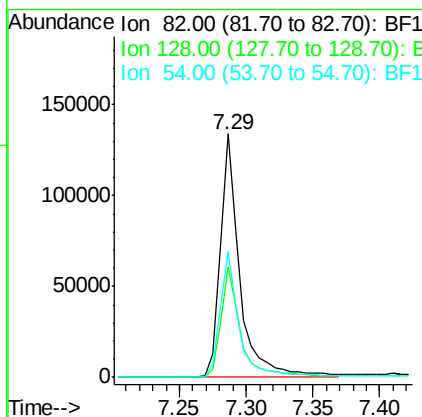
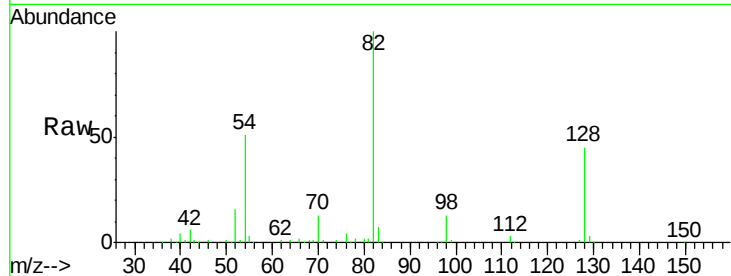
#23
Nitrobenzene-d5
Concen: 15.976 ng
RT: 7.29 min Scan# 884
Delta R.T. -0.01 min
Lab File: BF113026.D
Acq: 13 Mar 2019 8:24

Instrument :
BNA_F
ClientSampled :
B-6(4-5)DL

Tot Ion	Ratio	Lower	Upper
82	100		
128	45.4	36.3	54.5
54	51.5	43.7	65.5

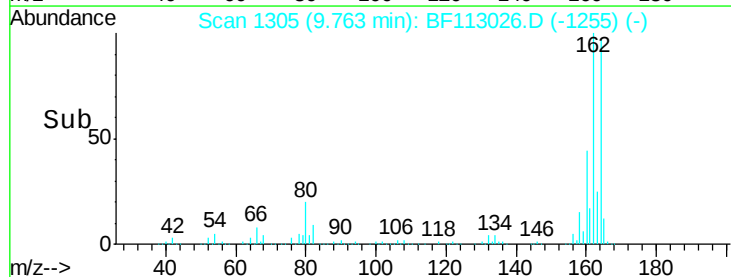
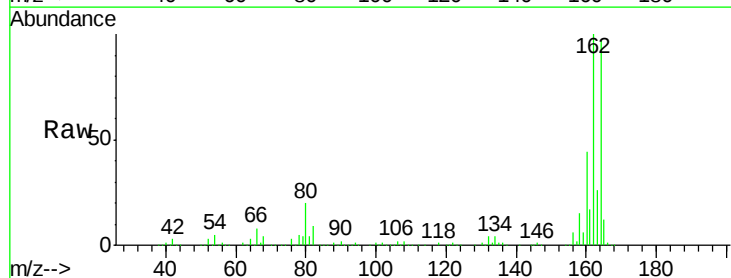
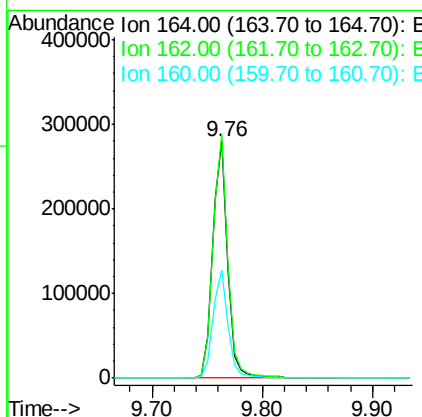
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#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.76 min Scan# 1305
Delta R.T. -0.01 min
Lab File: BF113026.D
Acq: 13 Mar 2019 8:24

Tgt Ion	Ratio	Lower	Upper
164	100		
162	102.7	80.6	120.8
160	45.6	36.0	54.0





#42

2,4,6-Tribromophenol

Concen: 24.787 ng

RT: 10.54 min Scan# 1438

Delta R.T. -0.01 min

Lab File: BF113026.D

Acq: 13 Mar 2019 8:24

Instrument :

BNA_F

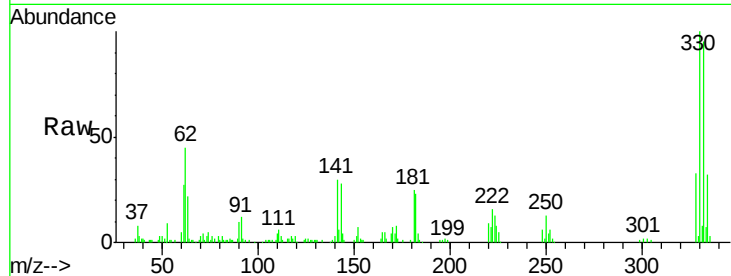
ClientSampleId :

B-6(4-5)DL

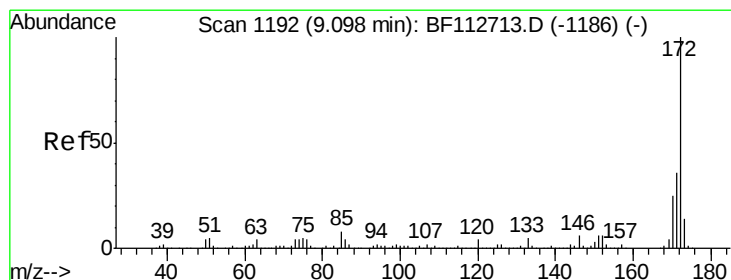
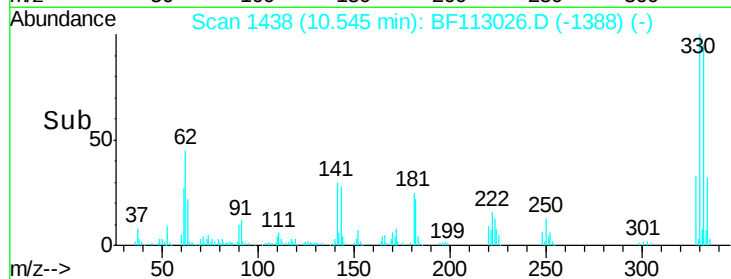
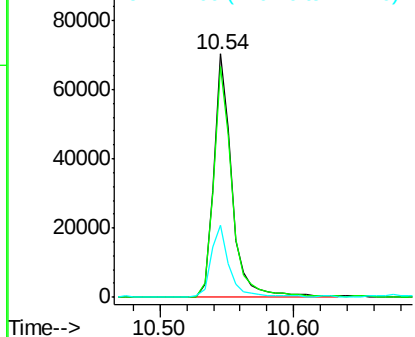
Tot Ion:	330	Resp:	67646
Ion Ratio	Lower	Upper	
330	100		
332	96.6	76.2	114.4
141	30.1	27.0	40.6

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



#45

2-Fluorobiphenyl

Concen: 15.157 ng

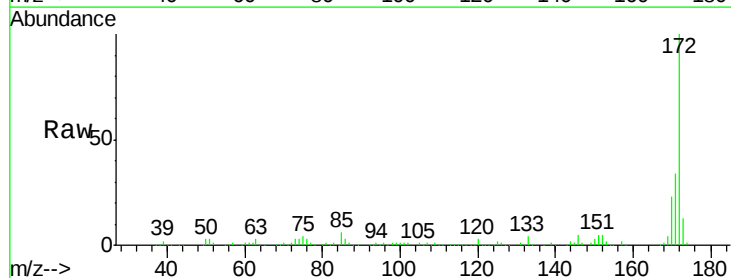
RT: 9.09 min Scan# 1190

Delta R.T. -0.01 min

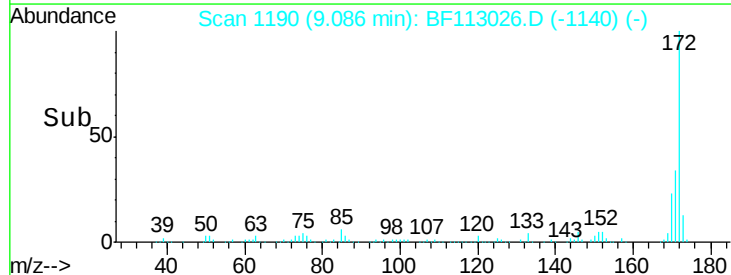
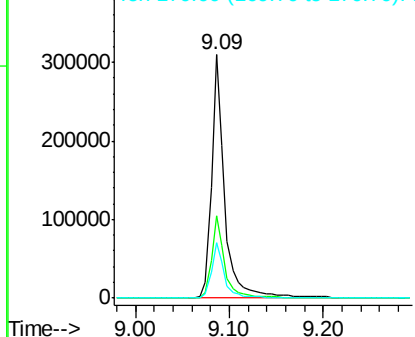
Lab File: BF113026.D

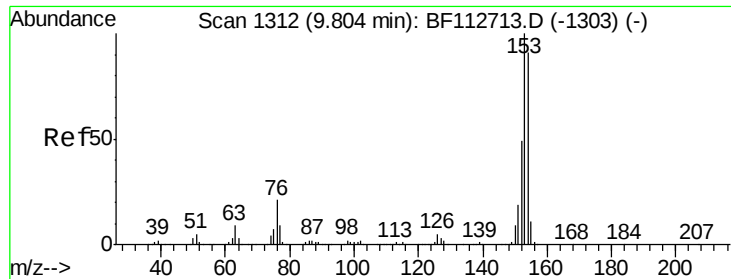
Acq: 13 Mar 2019 8:24

Tgt Ion:	172	Resp:	306017
Ion Ratio	Lower	Upper	
172	100		
171	33.7	29.0	43.4
170	22.6	20.0	30.0



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





#52

Acenaphthene

Concen: 2.498 ng

RT: 9.79 min Scan# 1310

Delta R.T. -0.01 min

Lab File: BF113026.D

Acq: 13 Mar 2019 8:24

Instrument :

BNA_F

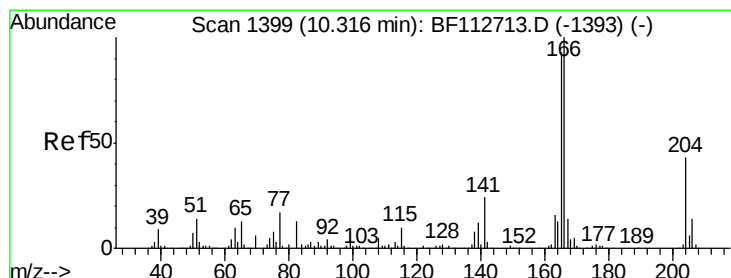
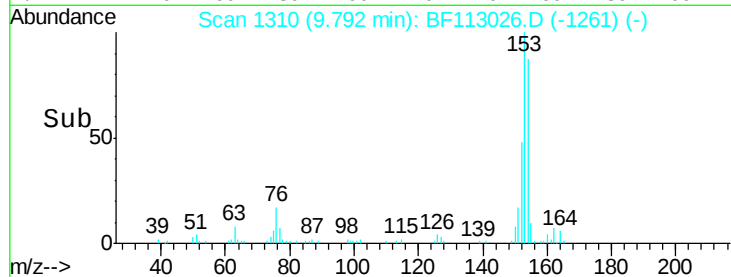
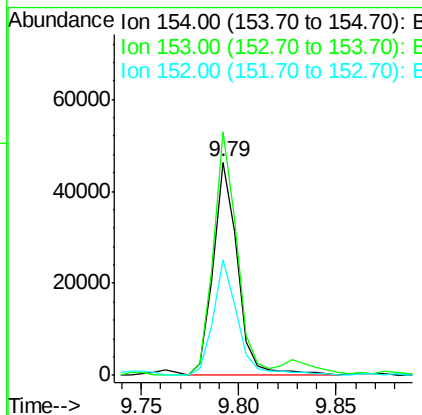
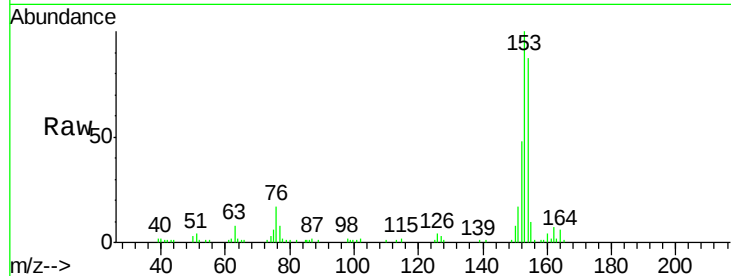
ClientSampleId :

B-6(4-5)DL

Tot Ion:	154	Resp:	40598
Ion Ratio	Lower	Upper	
154	100		
153	114.4	87.8	131.8
152	54.5	43.0	64.6

Manual Integrations
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#58

Fluorene

Concen: 3.801 ng

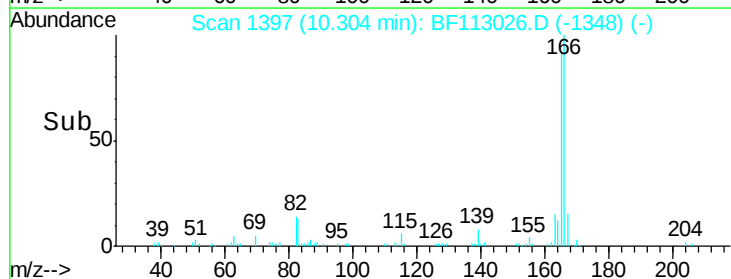
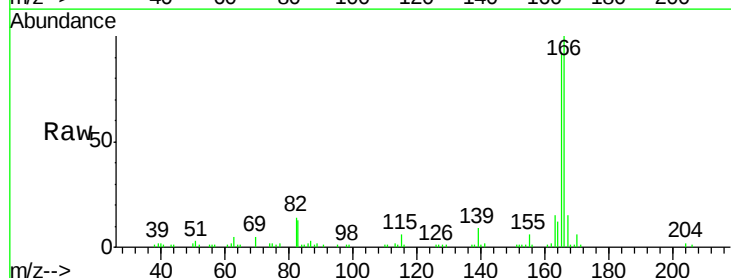
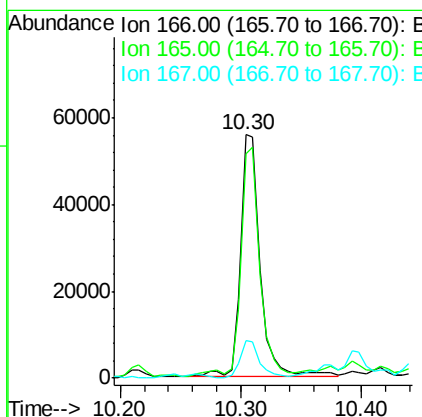
RT: 10.30 min Scan# 1397

Delta R.T. -0.01 min

Lab File: BF113026.D

Acq: 13 Mar 2019 8:24

Tgt Ion:	166	Resp:	63733
Ion Ratio	Lower	Upper	
166	100		
165	92.3	74.7	112.1
167	15.3	11.0	16.6





#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.24 min Scan# 1556

Delta R.T. -0.01 min

Lab File: BF113026.D

Acq: 13 Mar 2019 8:24

Instrument :

BNA_F

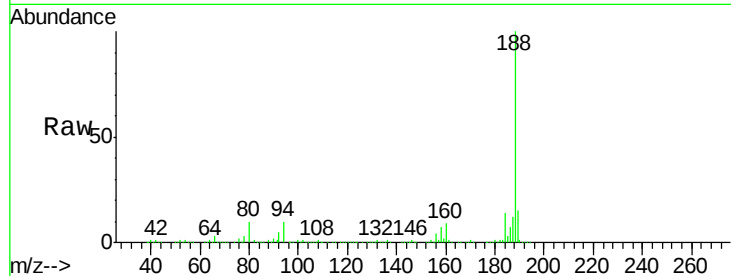
ClientSampled :

B-6(4-5)DL

Tot Ion:	188	Resp:	471955
Ion Ratio	Lower	Upper	
188	100		
94	9.7	9.0	13.4
80	9.8	9.2	13.8

Manual Integrations
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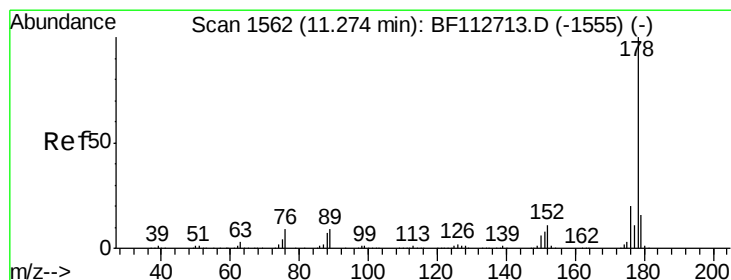
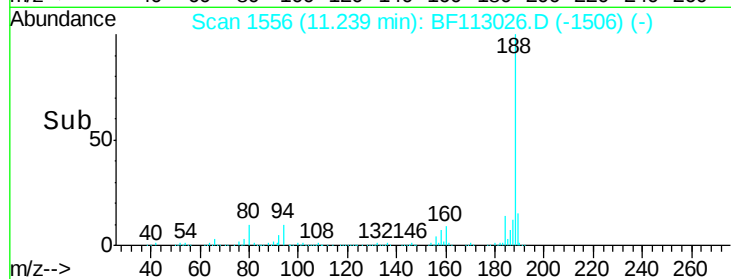
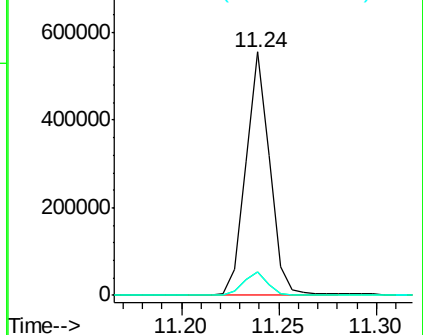
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Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF1

Ion 80.00 (79.70 to 80.70): BF1



#71

Phenanthrene

Concen: 39.058 ng

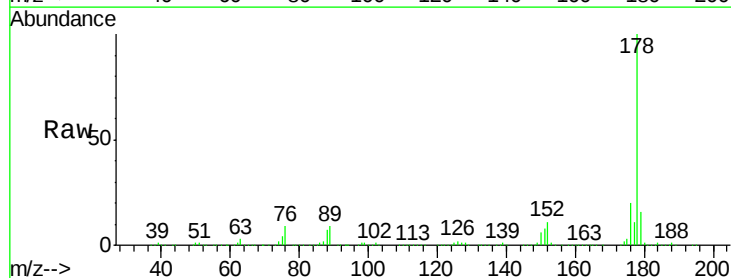
RT: 11.26 min Scan# 1560

Delta R.T. -0.01 min

Lab File: BF113026.D

Acq: 13 Mar 2019 8:24

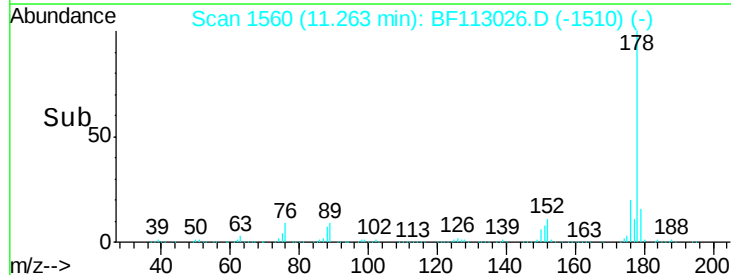
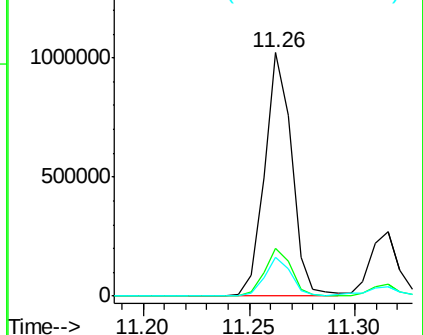
Tgt Ion:	178	Resp:	917150
Ion Ratio	Lower	Upper	
178	100		
176	19.7	16.3	24.5
179	15.8	12.7	19.1

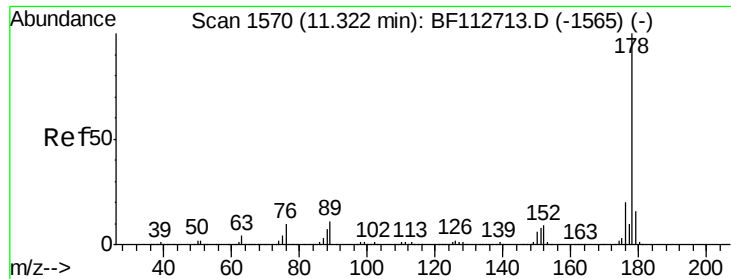


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#72

Anthracene

Concen: 11.047 ng

RT: 11.32 min Scan# 1569

Delta R.T. -0.01 min

Lab File: BF113026.D

Acq: 13 Mar 2019 8:24

Instrument :

BNA_F

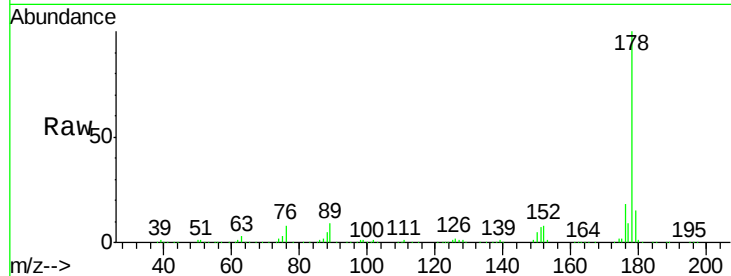
ClientSampleId :

B-6(4-5)DL

Tot Ion:	178	Resp:	271535
Ion Ratio	Lower	Upper	
178	100		
176	18.2	15.8	23.6
179	15.5	13.0	19.6

Manual Integrations
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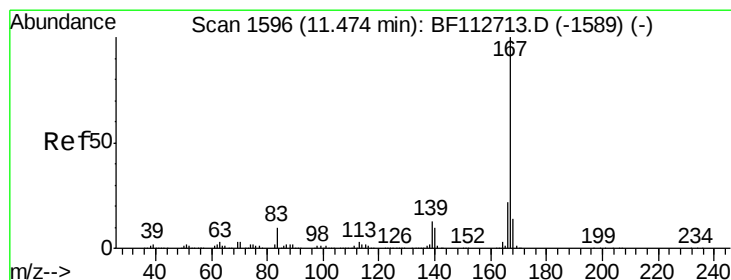
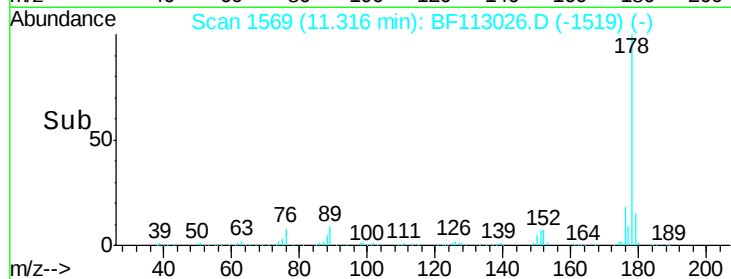
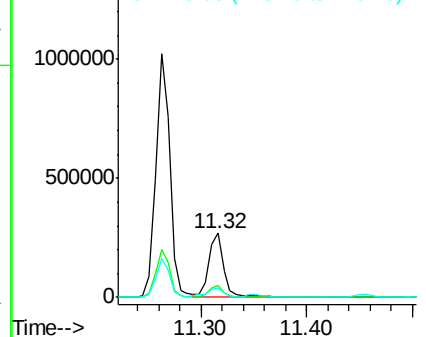
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Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E



#73

Carbazole

Concen: 3.378 ng

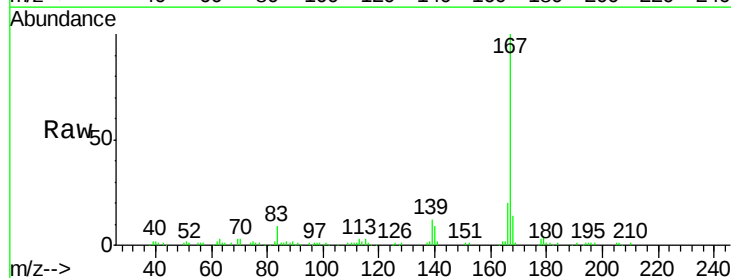
RT: 11.47 min Scan# 1595

Delta R.T. -0.01 min

Lab File: BF113026.D

Acq: 13 Mar 2019 8:24

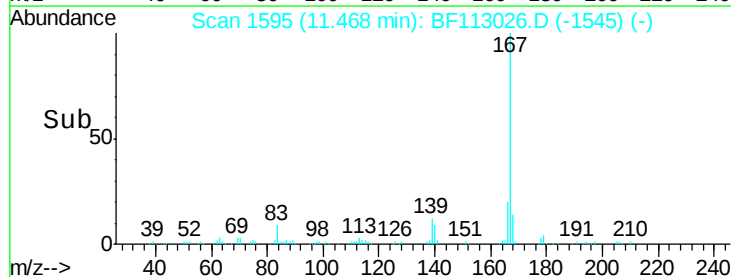
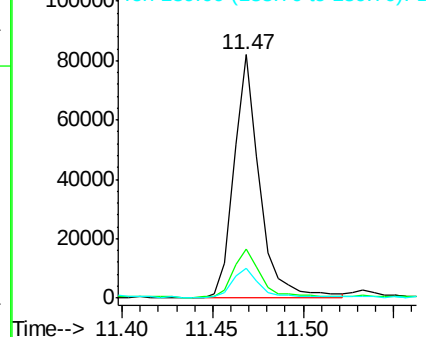
Tgt Ion:	167	Resp:	80988
Ion Ratio	Lower	Upper	
167	100		
166	20.2	17.5	26.3
139	12.3	10.8	16.2

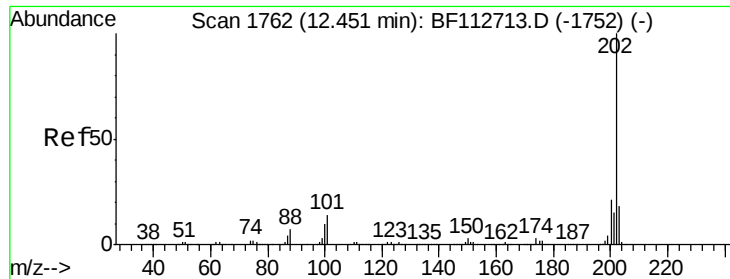


Abundance Ion 167.00 (166.70 to 167.70): E

Ion 166.00 (165.70 to 166.70): E

Ion 139.00 (138.70 to 139.70): E





#75

Fluoranthene

Concen: 60.812 ng

RT: 12.45 min Scan# 1762

Delta R.T. -0.00 min

Lab File: BF113026.D

Acq: 13 Mar 2019 8:24

Instrument :

BNA_F

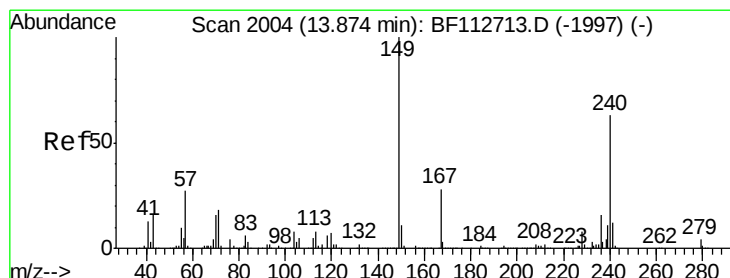
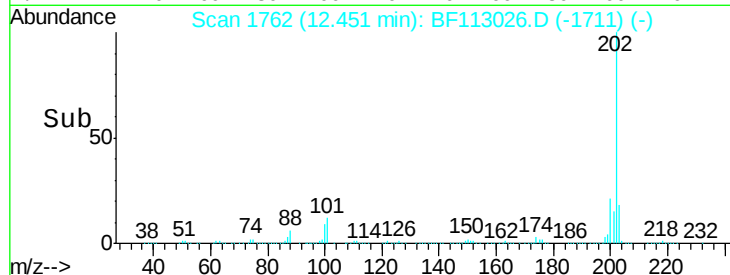
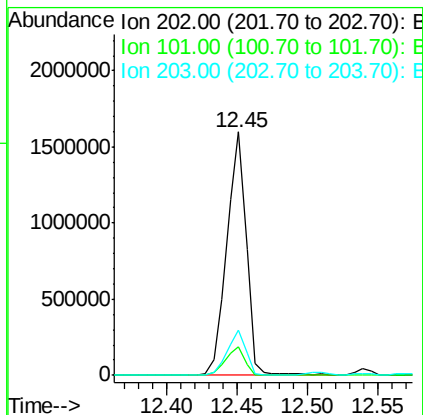
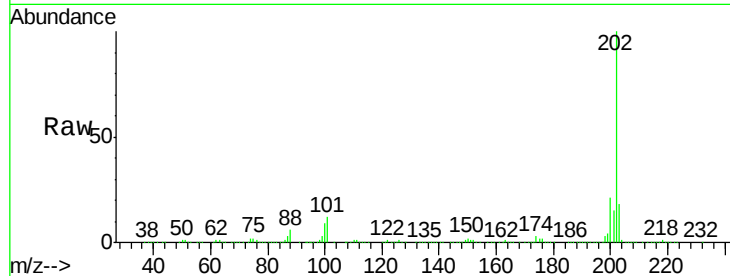
ClientSampleId :

B-6(4-5)DL

Tot Ion:	202	Resp:	1529894
Ion	Ratio	Lower	Upper
202	100		
101	11.5	0.0	33.8
203	18.3	0.0	38.4

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#76

Chrysene-d12

Concen: 20.000 ng

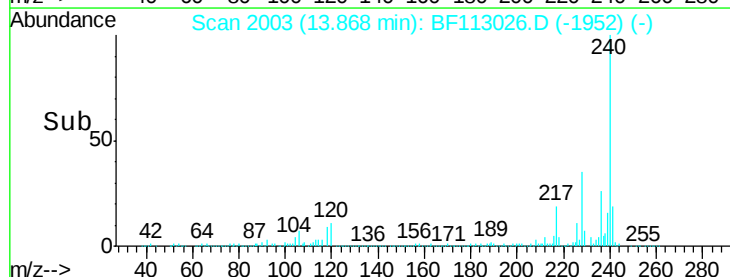
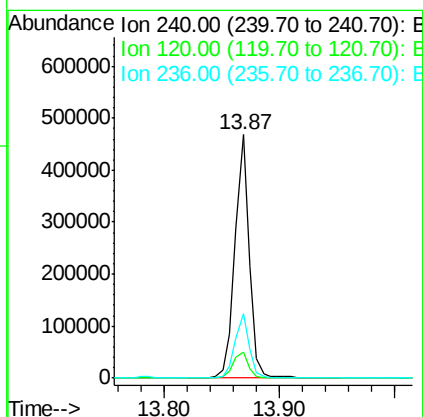
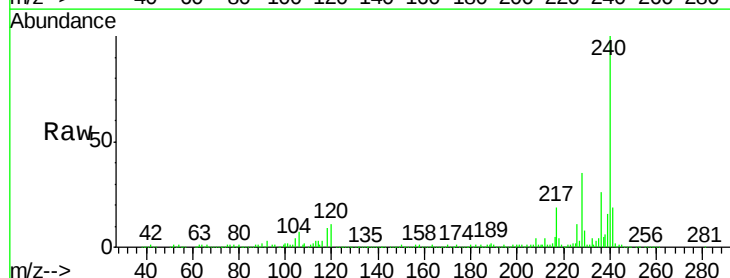
RT: 13.87 min Scan# 2003

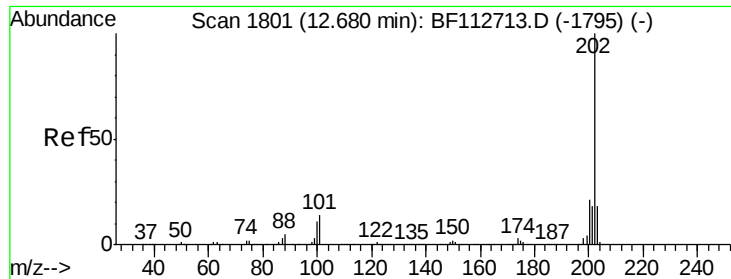
Delta R.T. -0.00 min

Lab File: BF113026.D

Acq: 13 Mar 2019 8:24

Tgt Ion:	240	Resp:	403100
Ion	Ratio	Lower	Upper
240	100		
120	10.8	8.9	13.3
236	26.3	20.7	31.1





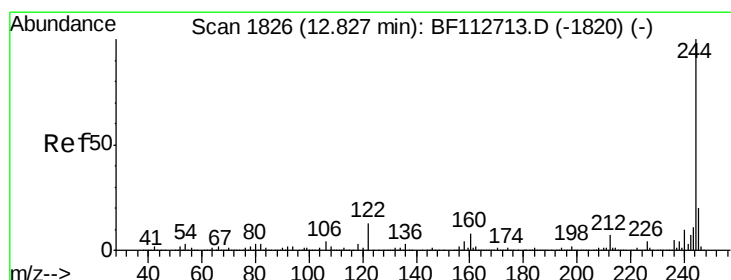
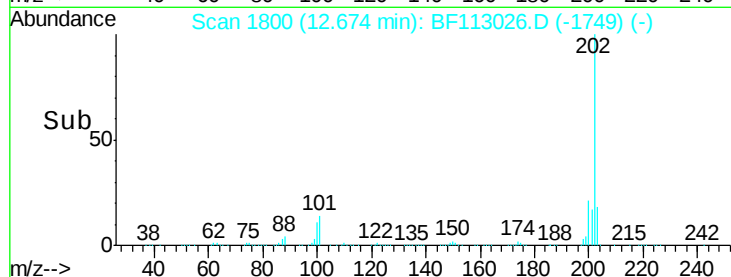
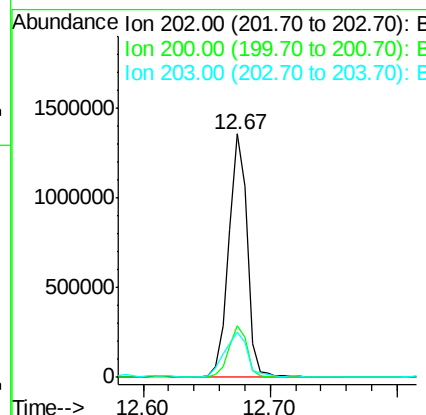
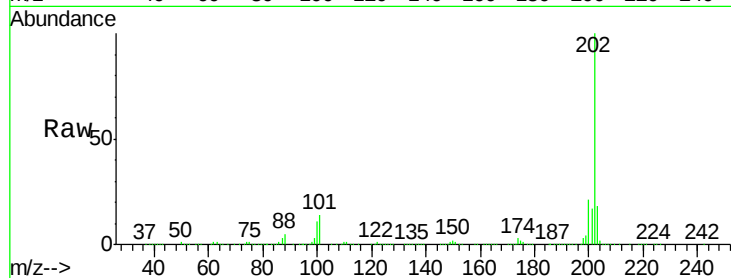
#78
Pvrene
Concen: 40.283 ng
RT: 12.67 min Scan# 1800
Delta R.T. -0.00 min
Lab File: BF113026.D
Acq: 13 Mar 2019 8:24

Instrument :
BNA_F
ClientSampleId :
B-6(4-5)DL

Tot Ion	Ratio	Lower	Upper
202	100		
200	21.2	17.0	25.4
203	18.5	14.4	21.6

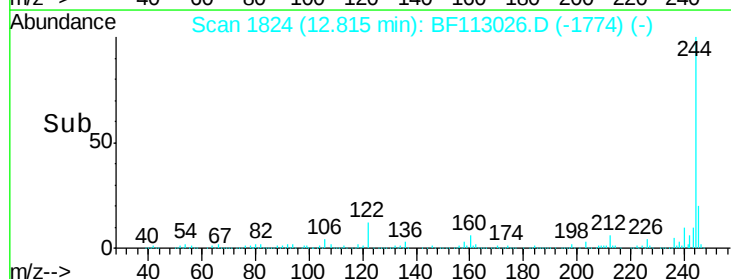
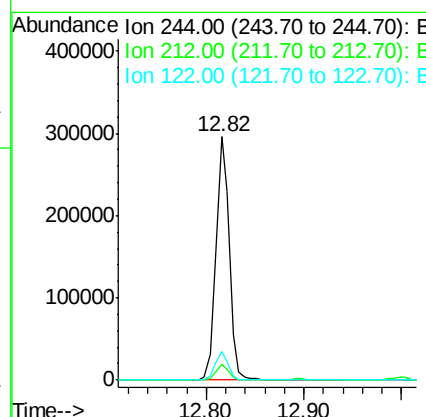
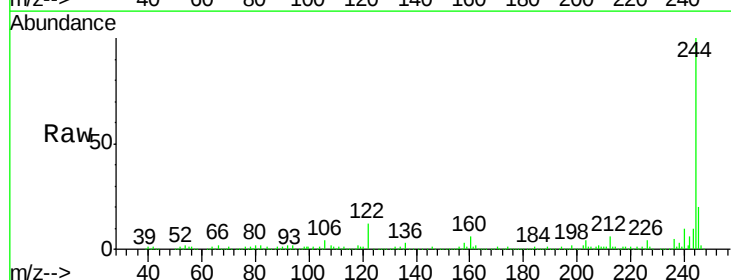
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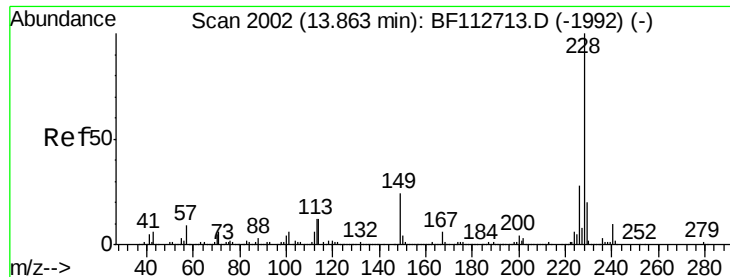
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#79
Terphenyl-d14
Concen: 13.396 ng
RT: 12.82 min Scan# 1824
Delta R.T. -0.01 min
Lab File: BF113026.D
Acq: 13 Mar 2019 8:24

Tgt Ion	Ratio	Lower	Upper
244	100		
212	6.3	5.6	8.4
122	12.0	10.5	15.7





#81

Benzo(a)anthracene

Concen: 29.619 ng

RT: 13.86 min Scan# 2001

Delta R.T. -0.00 min

Lab File: BF113026.D

Acq: 13 Mar 2019 8:24

Instrument :

BNA_F

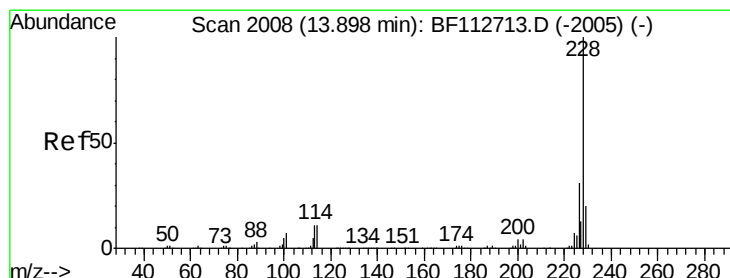
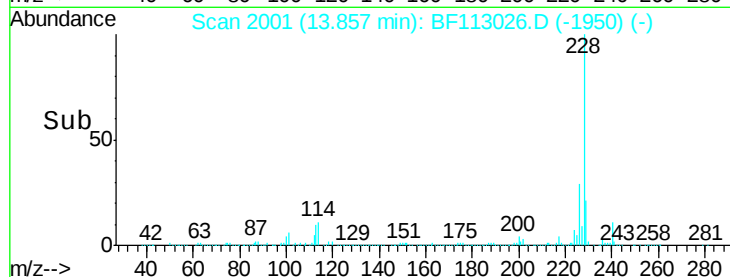
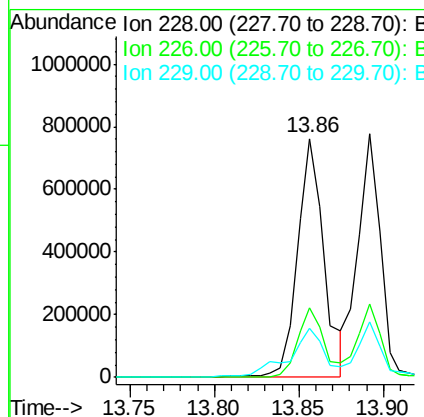
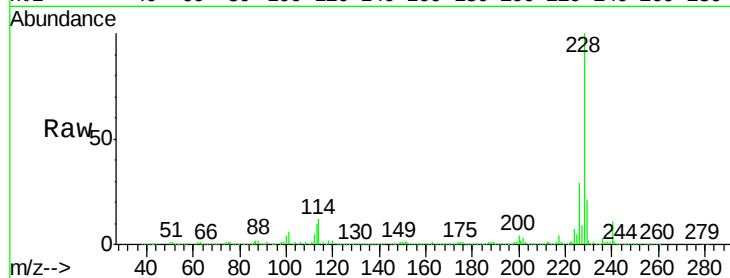
ClientSampled :

B-6(4-5)DL

Tot Ion:	228	Resp:	827479
Ion Ratio	Lower	Upper	
228	100		
226	29.2	22.2	33.4
229	20.7	16.0	24.0

Manual Integrations
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#83

Chrysene

Concen: 26.361 ng

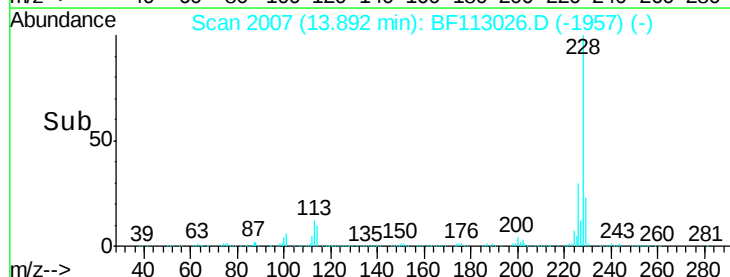
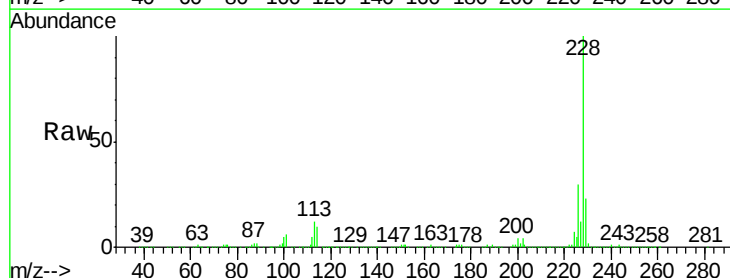
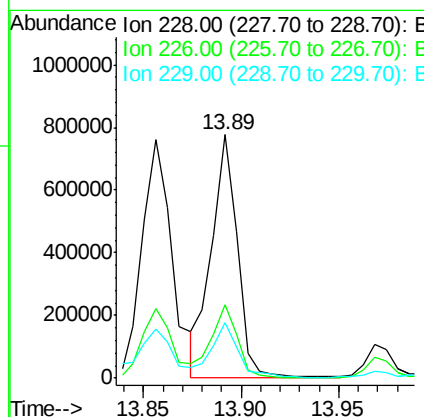
RT: 13.89 min Scan# 2007

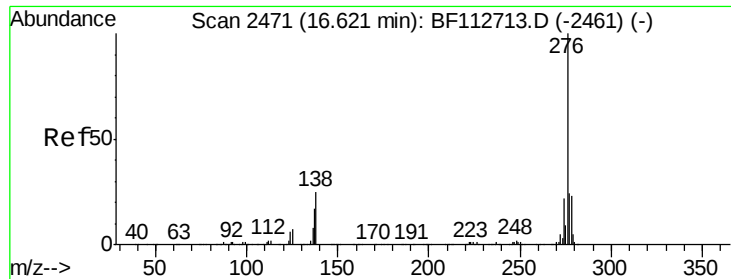
Delta R.T. -0.01 min

Lab File: BF113026.D

Acq: 13 Mar 2019 8:24

Tgt Ion:	228	Resp:	721390
Ion Ratio	Lower	Upper	
228	100		
226	30.2	24.9	37.3
229	22.9	16.3	24.5





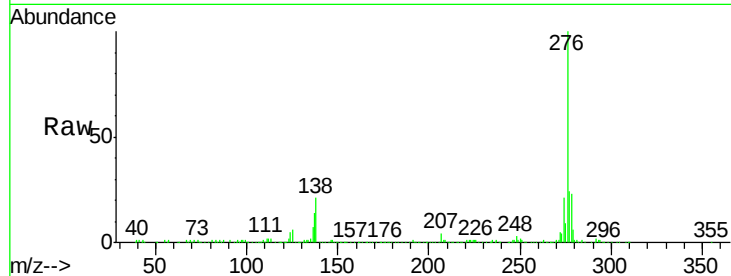
#86
 Indeno(1,2,3-cd)pyrene
 Concen: 16.182 ng
 RT: 16.63 min Scan# 2473
 Delta R.T. -0.01 min
 Lab File: BF113026.D
 Acq: 13 Mar 2019 8:24

Instrument :
 BNA_F
 ClientSampled :
 B-6(4-5)DL

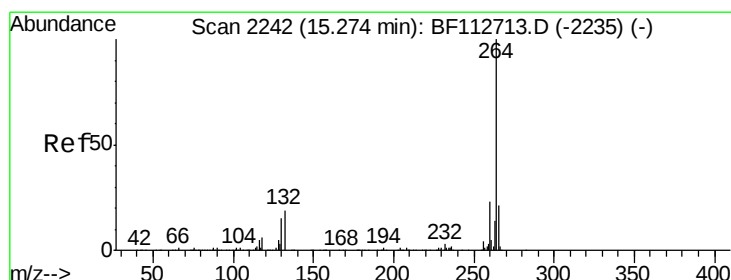
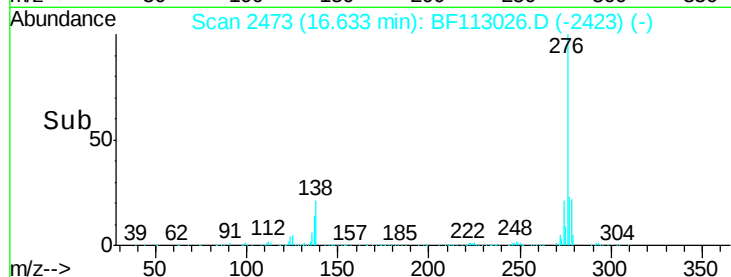
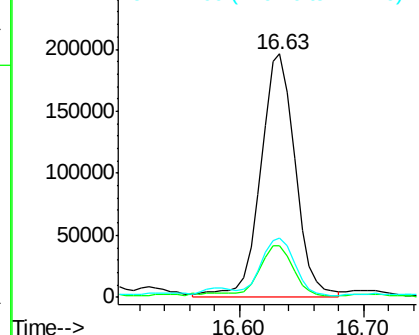
Tot Ion	Ratio	Lower	Upper
276	100		
138	1.0	23.2	34.8#
277	0.9	19.9	29.9#

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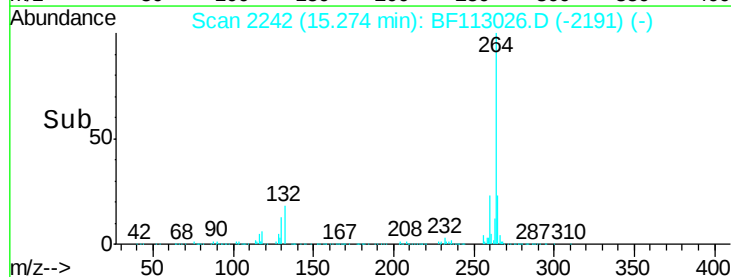
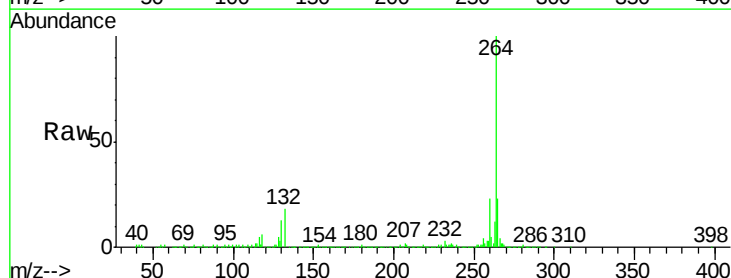
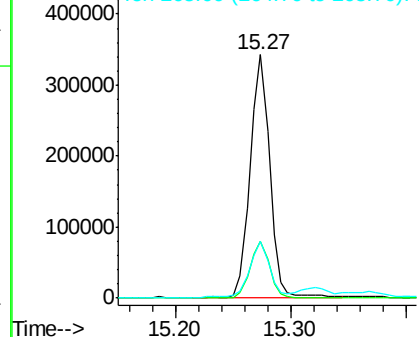
Abundance Ion 276.00 (275.70 to 276.70): E
 Ion 138.00 (137.70 to 138.70): E
 Ion 277.00 (276.70 to 277.70): E

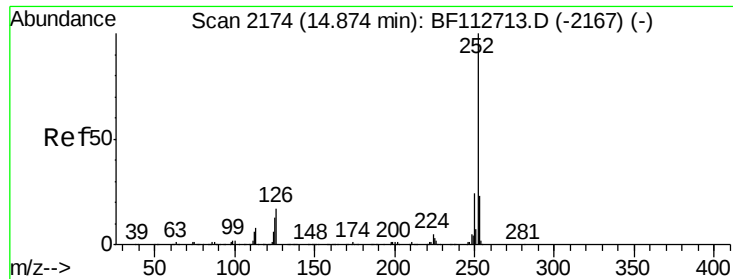


#87
 Perylene-d12
 Concen: 20.000 ng
 RT: 15.27 min Scan# 2242
 Delta R.T. -0.00 min
 Lab File: BF113026.D
 Acq: 13 Mar 2019 8:24

Tgt Ion	Ratio	Lower	Upper
264	100		
260	23.3	18.7	28.1
265	23.1	17.2	25.8

Abundance Ion 264.00 (263.70 to 264.70): E
 Ion 260.00 (259.70 to 260.70): E
 Ion 265.00 (264.70 to 265.70): E





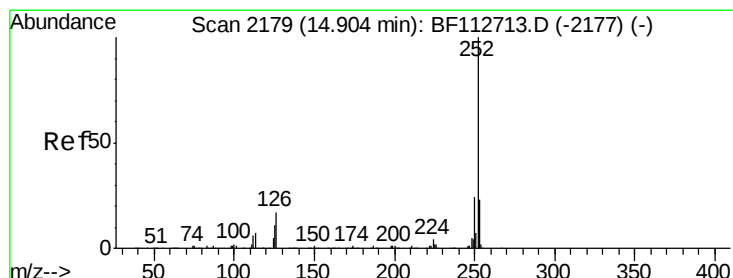
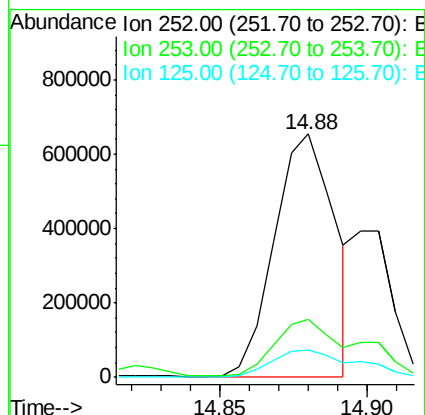
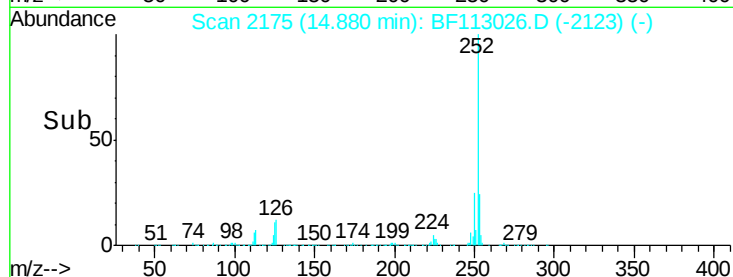
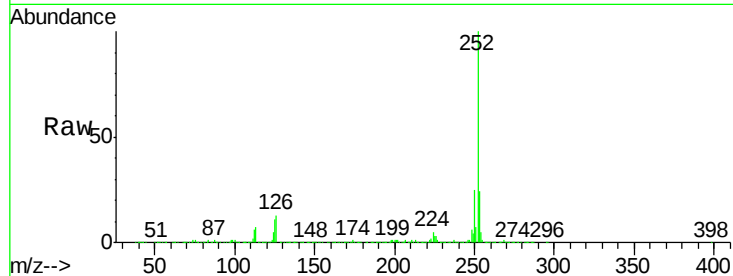
#88
Benzo(b)fluoranthene
Concen: 35.682 ng m
RT: 14.88 min Scan# 2175
Delta R.T. 0.01 min
Lab File: BF113026.D
Acq: 13 Mar 2019 8:24

Instrument :
BNA_F
ClientSampleId :
B-6(4-5)DL

Tot Ion	Ratio	Lower	Upper
252	100		
253	23.8	18.0	27.0
125	11.0	10.2	15.2

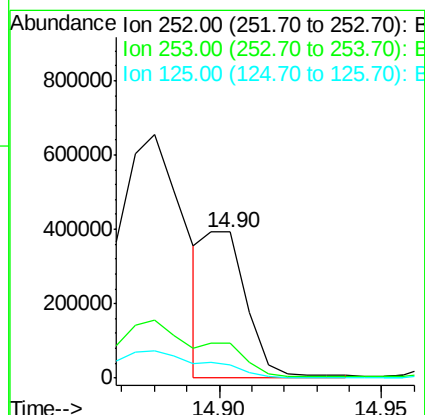
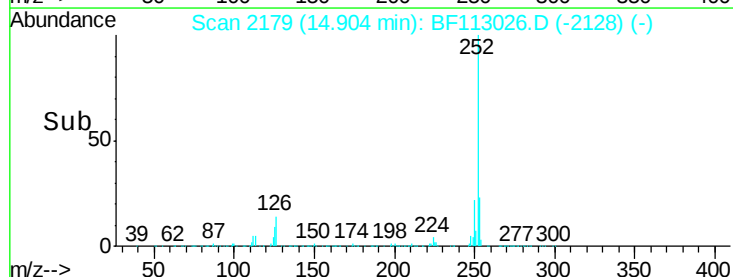
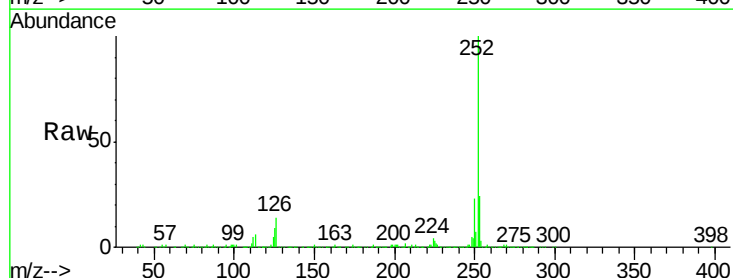
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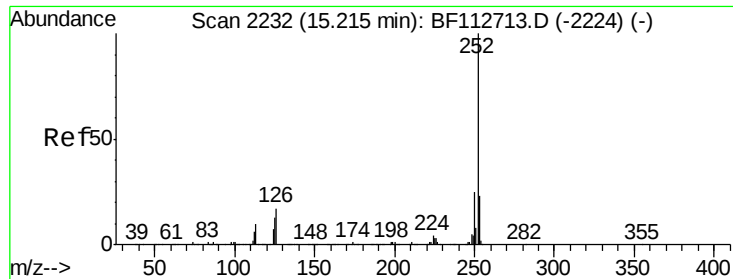
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#89
Benzo(k)fluoranthene
Concen: 15.257 ng m
RT: 14.90 min Scan# 2179
Delta R.T. -0.00 min
Lab File: BF113026.D
Acq: 13 Mar 2019 8:24

Tgt Ion	Ratio	Lower	Upper
252	100		
253	24.0	18.2	27.2
125	9.1	9.8	14.6





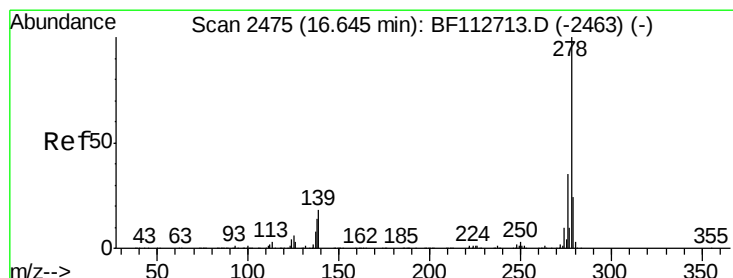
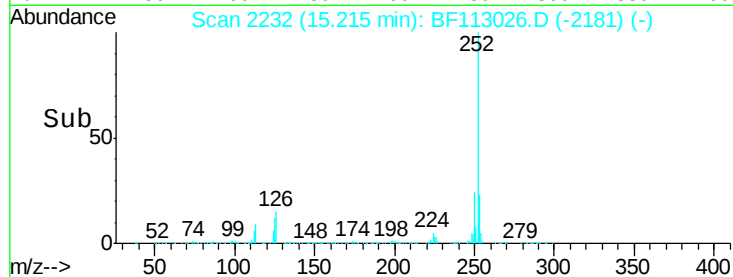
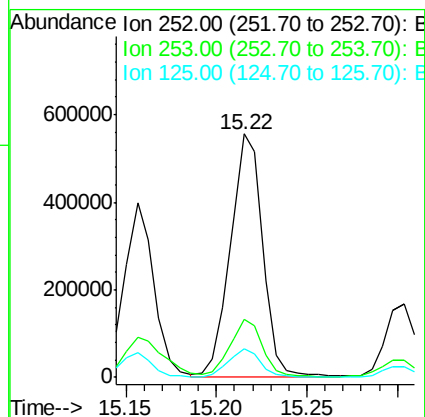
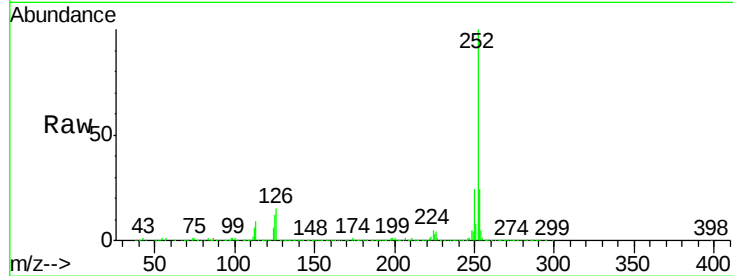
#90
Benzo(a)pyrene
Concen: 29.337 ng
RT: 15.22 min Scan# 2232
Delta R.T. -0.00 min
Lab File: BF113026.D
Acq: 13 Mar 2019 8:24

Instrument :
BNA_F
ClientSampled :
B-6(4-5)DL

Tot Ion	Ratio	Lower	Upper
252	100		
253	23.8	18.0	27.0
125	11.5	10.7	16.1

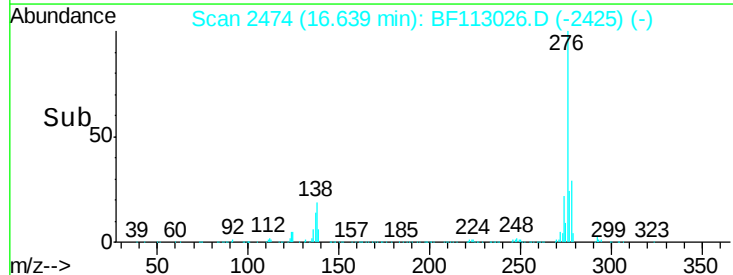
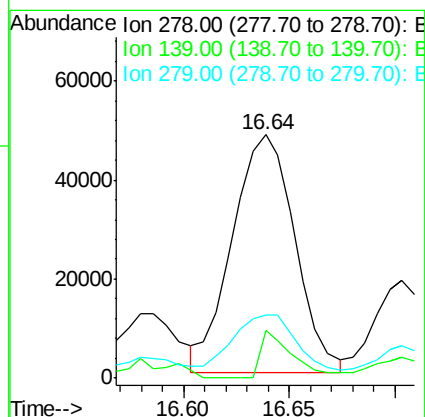
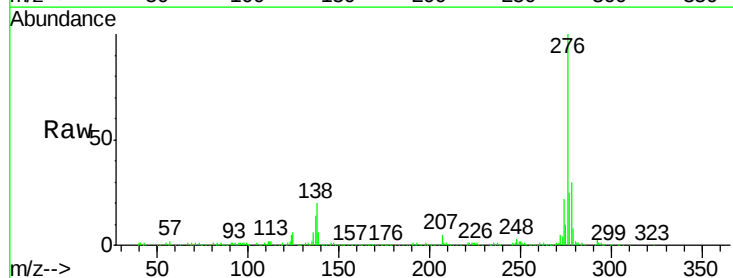
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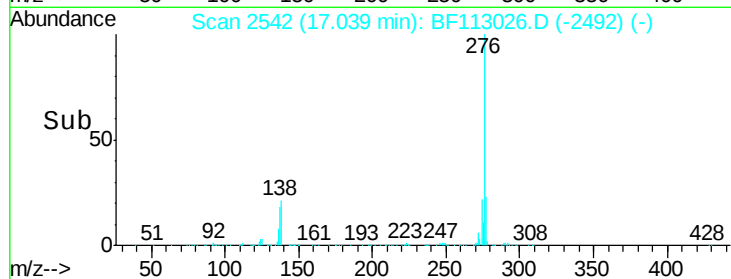
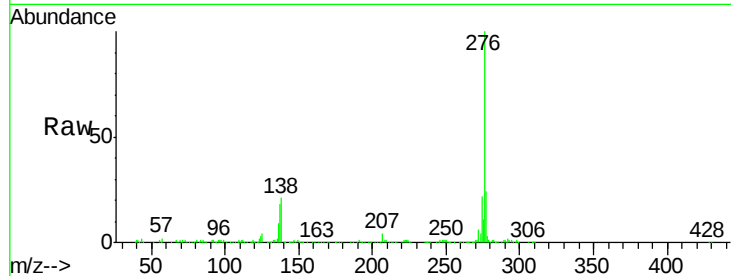
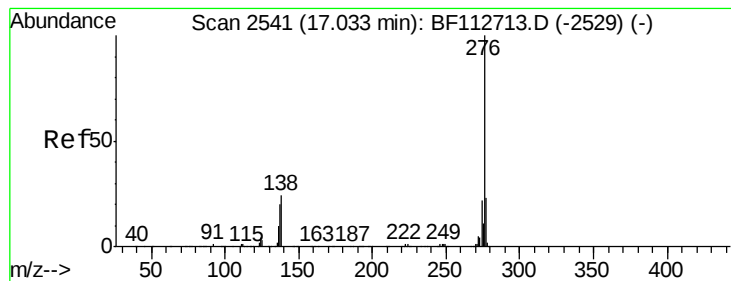
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#91
Dibenzo(a,h)anthracene
Concen: 4.997 ng
RT: 16.64 min Scan# 2474
Delta R.T. -0.01 min
Lab File: BF113026.D
Acq: 13 Mar 2019 8:24

Tgt Ion	Ratio	Lower	Upper
278	100		
139	19.5	14.3	21.5
279	26.0	19.4	29.0





#92

Benzo(a,h,i)perylene

Concen: 16.524 ng

RT: 17.04 min Scan# 2542

Delta R.T. -0.01 min

Lab File: BF113026.D

Acq: 13 Mar 2019 8:24

Tot Ion:	276	Resp:	328814
Ion Ratio	Lower	Upper	
276	100		
277	24.1	18.6	27.8
138	21.4	19.4	29.0

Instrument :

BNA_F

ClientSampleId :

B-6(4-5)DL

Manual Integrations
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