

Data File : BN007192.D
Acq On : 15 Aug 2019 12:33
Operator : HP/JU
Sample : K4239-06 10X
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
EXT-013-SW154-080519

Manual Integrations
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8/16/2019 6:11:15 PM

Quant Time: Aug 16 06:43:59 2019
Quant Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\8270-SIM-BN081019.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Aug 13 12:12:02 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.43	152	6963	0.40	ng	0.00
6) Naphthalene-d8	10.19	136	26790	0.40	ng	0.00
12) Acenaphthene-d10	14.07	164	15431	0.40	ng	-0.01
18) Phenanthrene-d10	16.82	188	36641	0.40	ng	0.00
26) Chrysene-d12	21.05	240	36908	0.40	ng	-0.01
32) Perylene-d12	23.16	264	41245	0.40	ng	-0.01

System Monitoring Compounds						
3) 2-Fluorophenol	5.05	112	450	0.03	ng	0.00
4) Phenol-d6	6.61	99	639	0.03	ng	0.00
7) Nitrobenzene-d5	8.55	82	554	0.03	ng	-0.01
10) 2-Methylnaphthalene-d10	11.79	152	1028	0.02	ng	0.00
13) 2,4,6-Tribromophenol	15.57	330	161	0.02	ng	0.00
14) 2-Fluorobiphenyl	12.71	172	291	0.01	ng	0.00
24) Fluoranthene-d10	18.87	212	2192	0.02	ng	0.00
28) Terphenyl-d14	19.48	244	1940	0.02	ng	-0.02

Target Compounds				Qvalue		
8) Naphthalene	10.22	128	5058	0.067	ng	# 93
11) 2-Methylnaphthalene	11.86	142	5550	0.104	ng	95
15) Acenaphthylene	13.79	152	38882	0.482	ng	99
16) Acenaphthene	14.13	154	6105	0.118	ng	94
17) Fluorene	15.12	166	14327	0.185	ng	87
22) Phenanthrene	16.87	178	277624	2.528	ng	100
23) Anthracene	16.95	178	45933	0.458	ng	# 95
25) Fluoranthene	18.90	202	422109	3.005	ng	99
27) Pyrene	19.26	202	477114	3.686	ng	97
29) Benzo(a)anthracene	21.02	228	253429	1.878	ng	95
30) Chrysene	21.08	228	276860	2.111	ng	98
31) Indeno(1,2,3-cd)pyrene	25.23	276	147303	1.019	ng	98
33) Benzo(b)fluoranthene	22.54	252	311328	2.201	ng	100
34) Benzo(k)fluoranthene	22.58	252	91222m	0.653	ng	
35) Benzo(a)pyrene	23.07	252	220747	1.722	ng	99
36) Dibenzo(a,h)anthracene	25.24	278	40954	0.320	ng	# 89
37) Benzo(g,h,i)perylene	25.87	276	155698	1.183	ng	99

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

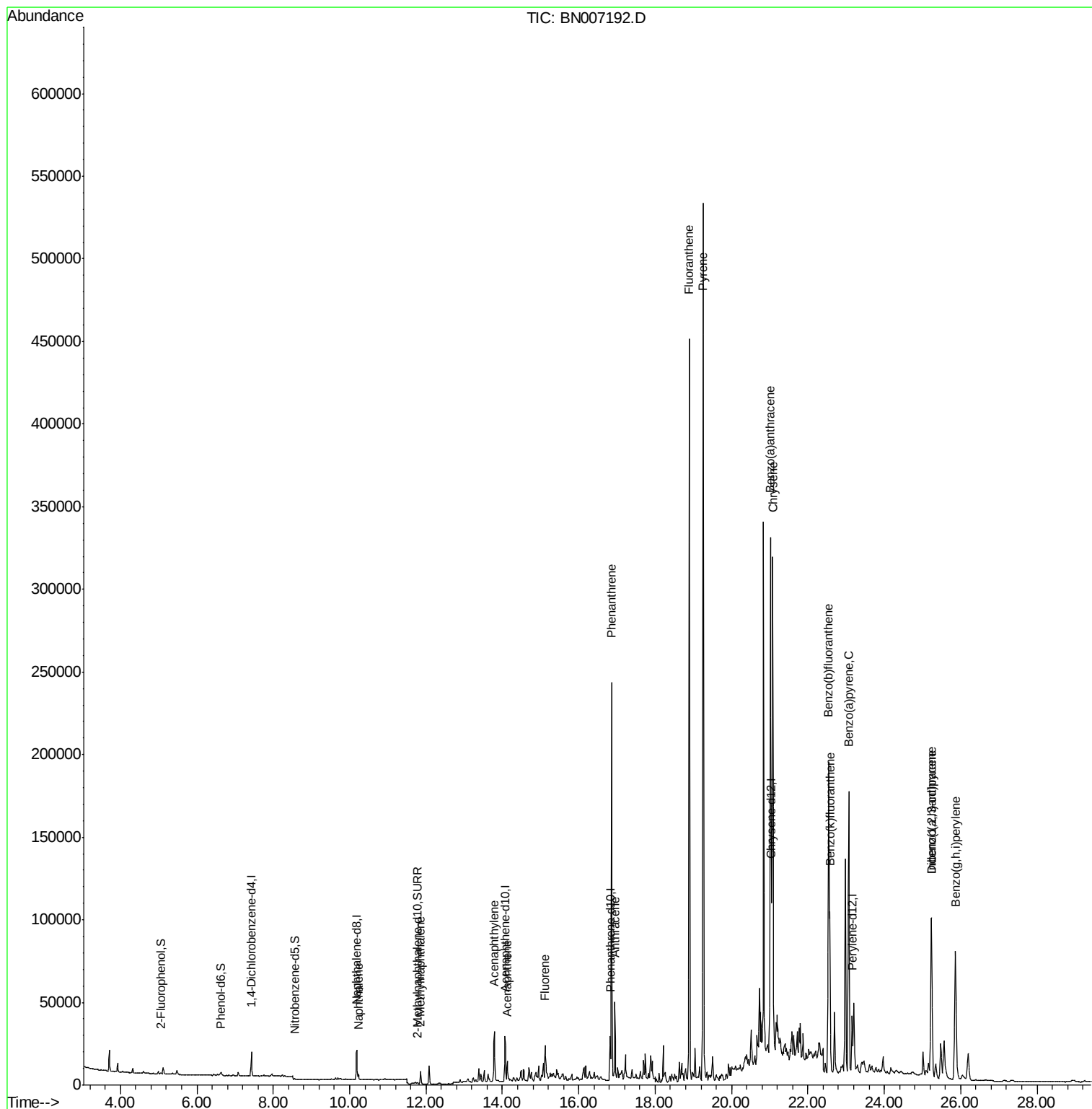
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Quant Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\8270-SIM-BN081019.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
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#1

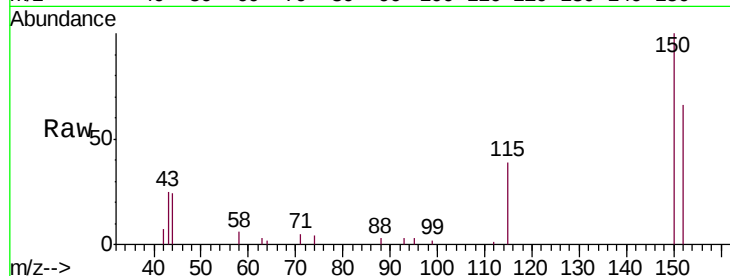
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.43 min Scan# 546
Delta R.T. -0.01 min
Lab File: BN007192.D
Acq: 15 Aug 2019 12:33

Instrument :
BNA_N
ClientSampleId :
EXT-013-SW154-080519

Tgt Ion	Ratio	Lower	Upper
152	100		
150	151.3	121.7	182.5
115	58.7	46.2	69.4

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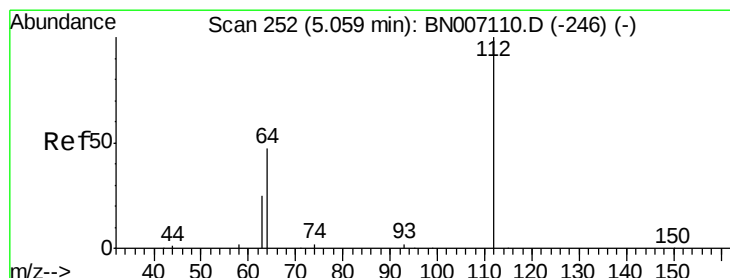
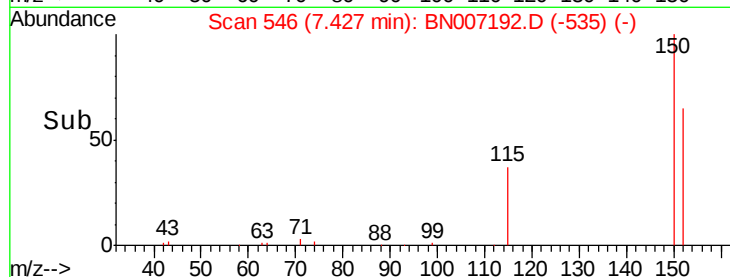
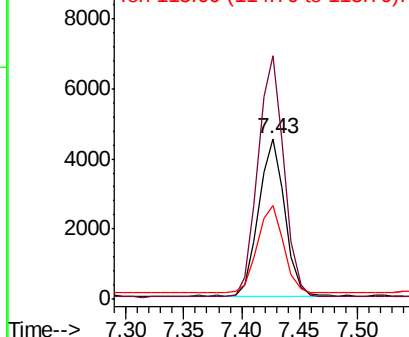


Abundance

Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

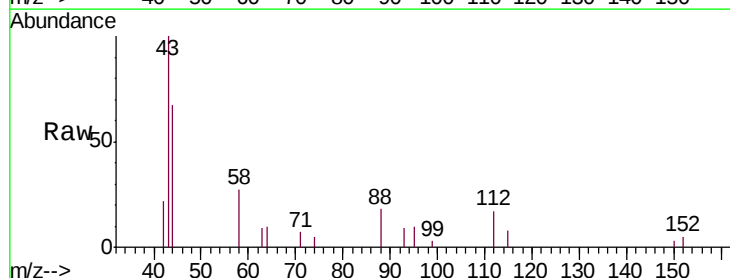
Ion 115.00 (114.70 to 115.70): E



#3

2-Fluorophenol
Concen: 0.027 ng
RT: 5.05 min Scan# 251
Delta R.T. -0.01 min
Lab File: BN007192.D
Acq: 15 Aug 2019 12:33

Tgt Ion	Ratio	Lower	Upper
112	100		
64	49.8	42.6	63.8
63	0.0	22.2	33.2#

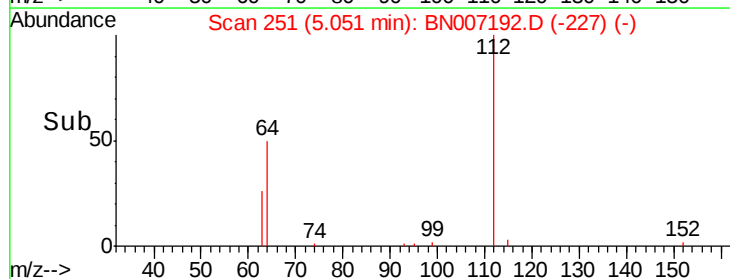
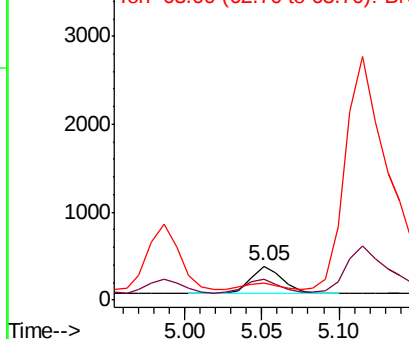


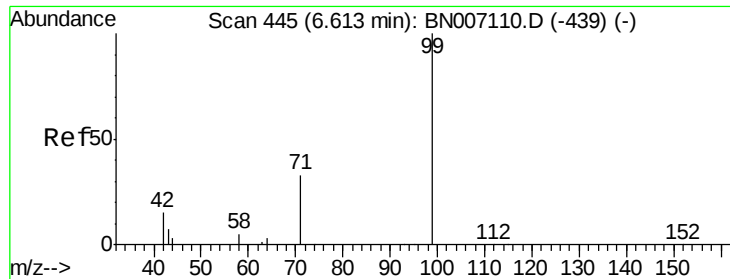
Abundance

Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BNC

Ion 63.00 (62.70 to 63.70): BNC





#4

Phenol-d6

Concen: 0.031 ng

RT: 6.61 min Scan# 445

Delta R.T. -0.00 min

Lab File: BN007192.D

Acq: 15 Aug 2019 12:33

Instrument :

BNA_N

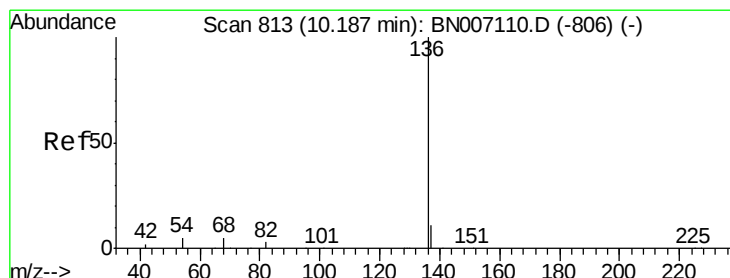
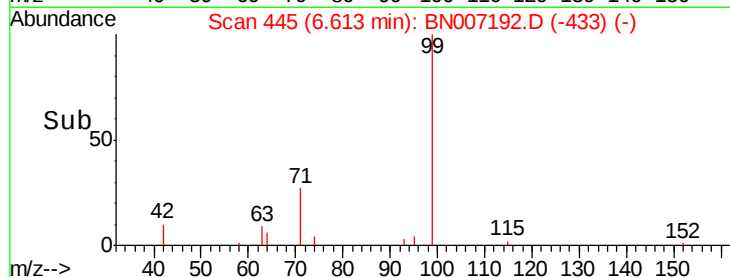
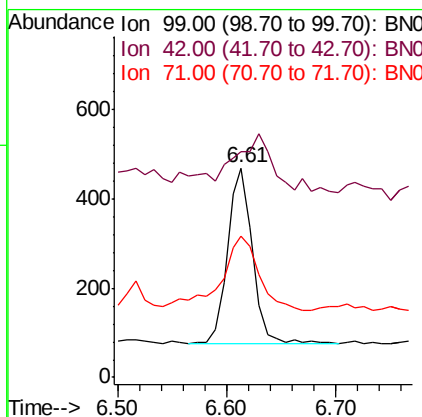
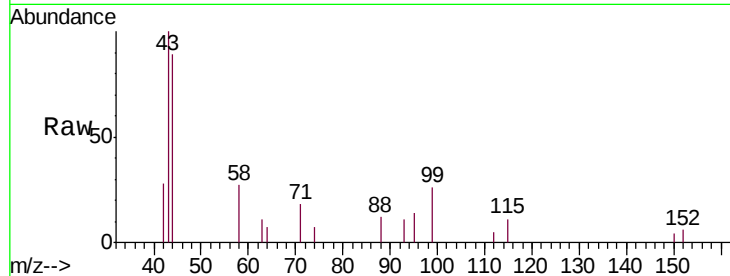
ClientSampleId :

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Tgt Ion:	99	Resp:	639
Ion	Ratio	Lower	Upper
99	100		
42	41.9	15.8	23.6#
71	66.7	27.0	40.4#

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#6

Naphthalene-d8

Concen: 0.400 ng

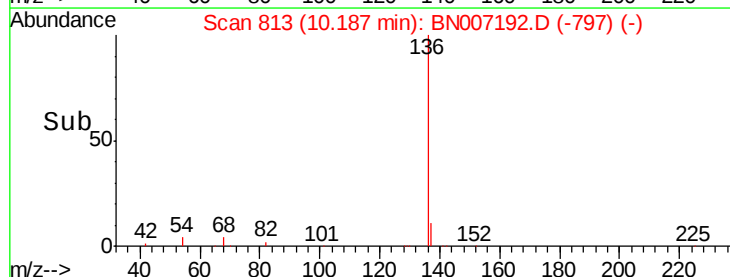
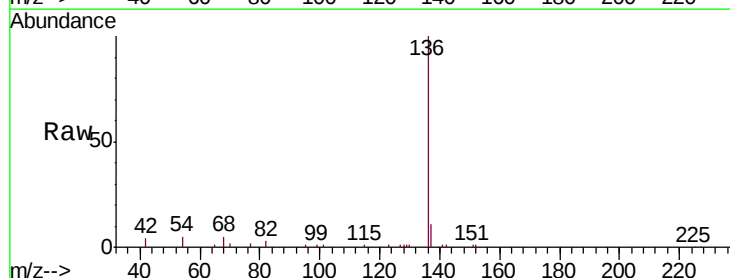
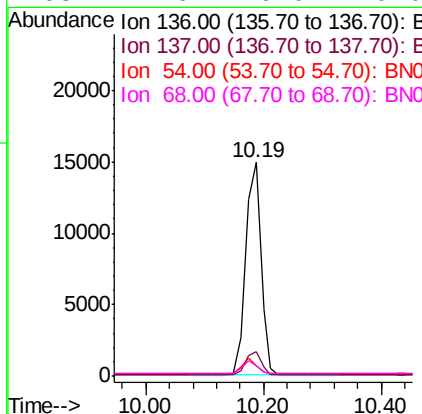
RT: 10.19 min Scan# 813

Delta R.T. -0.00 min

Lab File: BN007192.D

Acq: 15 Aug 2019 12:33

Tgt Ion:	136	Resp:	26790
Ion	Ratio	Lower	Upper
136	100		
137	11.4	9.4	14.0
54	4.6	6.6	9.8#
68	4.6	6.0	9.0#





#7

Nitrobenzene-d5

Concen: 0.026 ng

RT: 8.55 min Scan# 684

Delta R.T. -0.01 min

Lab File: BN007192.D

Acq: 15 Aug 2019 12:33

Instrument :

BNA_N

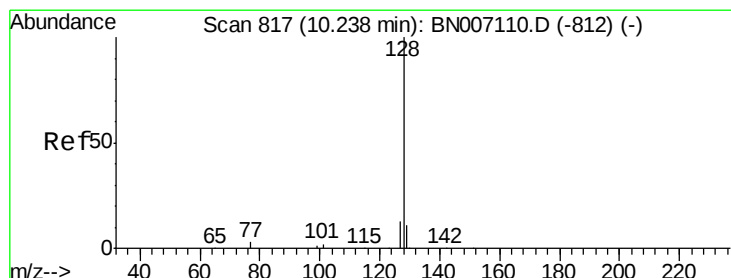
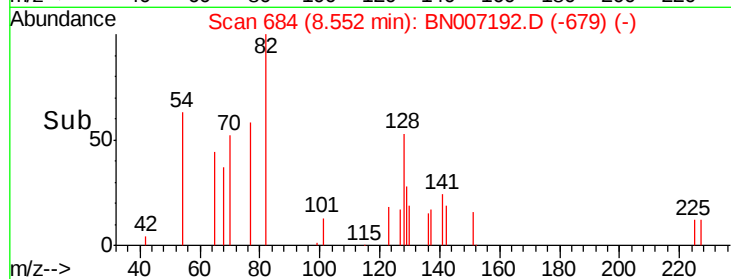
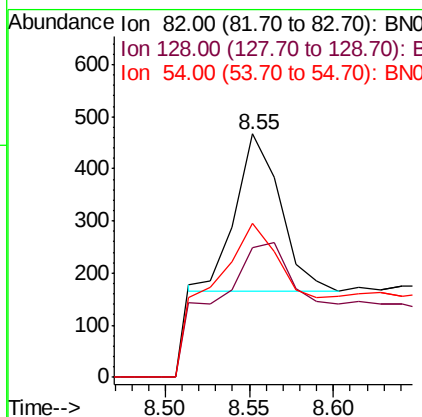
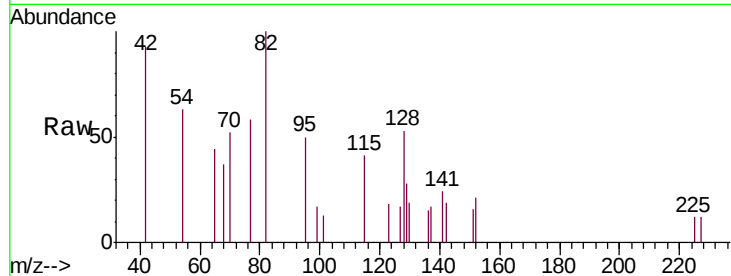
ClientSampleId :

EXT-013-SW154-080519

Tgt Ion:	82	Resp:	554
Ion Ratio	Lower	Upper	
82	100		
128	53.3	34.6	51.8#
54	63.2	36.2	54.4#

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#8

Naphthalene

Concen: 0.067 ng

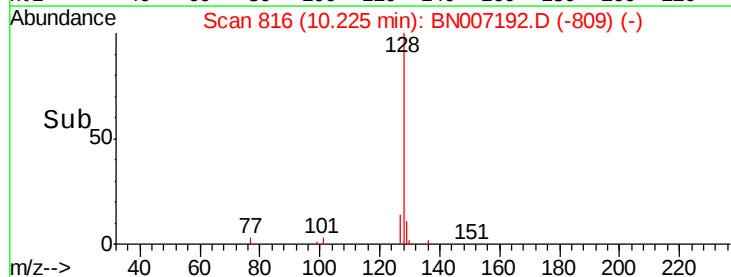
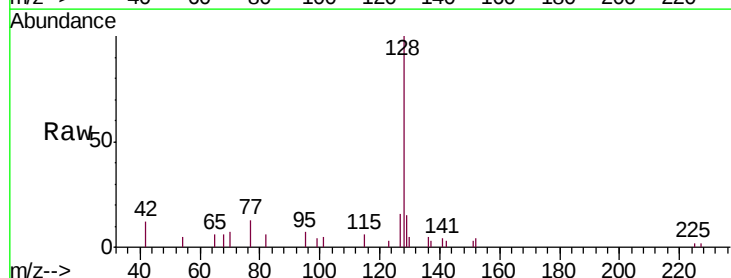
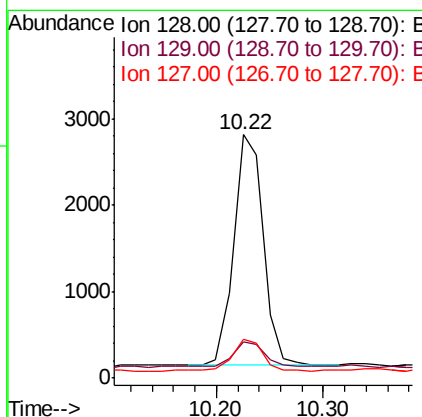
RT: 10.22 min Scan# 816

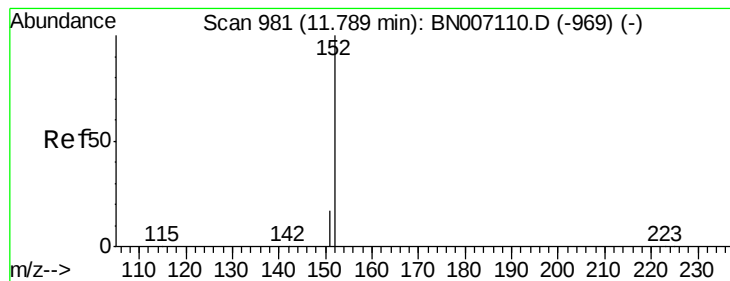
Delta R.T. -0.01 min

Lab File: BN007192.D

Acq: 15 Aug 2019 12:33

Tgt Ion:	128	Resp:	5058
Ion Ratio	Lower	Upper	
128	100		
129	15.1	9.4	14.2#
127	16.0	11.0	16.6





#10

2-Methylnaphthalene-d10

Concen: 0.021 ng

RT: 11.79 min Scan# 980

Delta R.T. -0.01 min

Lab File: BN007192.D

Acq: 15 Aug 2019 12:33

Instrument :

BNA_N

ClientSampleId :

EXT-013-SW154-080519

Tgt Ion:152 Resp: 1028

Ion Ratio Lower Upper

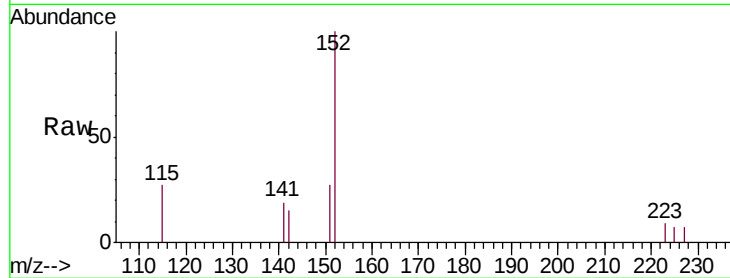
152 100

151 22.1 15.5 23.3

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Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

11.79

800

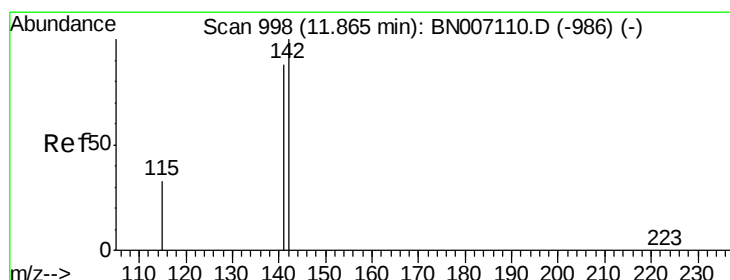
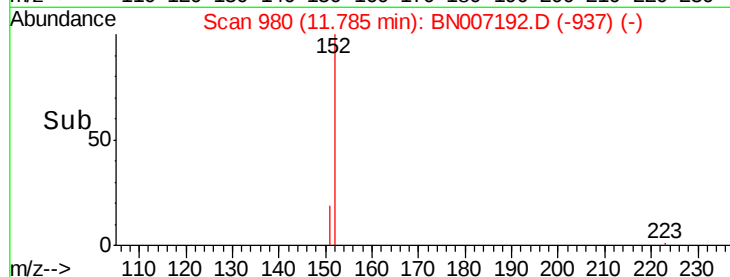
600

400

200

0

Time--> 11.70 11.75 11.80



#11

2-Methylnaphthalene

Concen: 0.104 ng

RT: 11.86 min Scan# 996

Delta R.T. -0.01 min

Lab File: BN007192.D

Acq: 15 Aug 2019 12:33

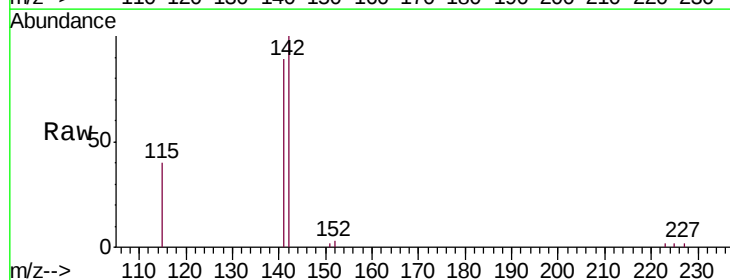
Tgt Ion:142 Resp: 5550

Ion Ratio Lower Upper

142 100

141 89.5 69.0 103.6

115 39.6 27.1 40.7



Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E

Ion 115.00 (114.70 to 115.70): E

11.86

4000

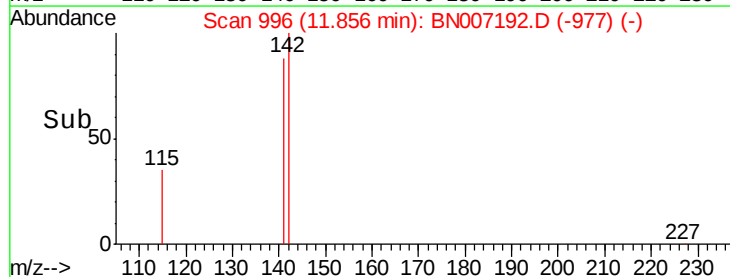
3000

2000

1000

0

Time--> 11.80 11.90





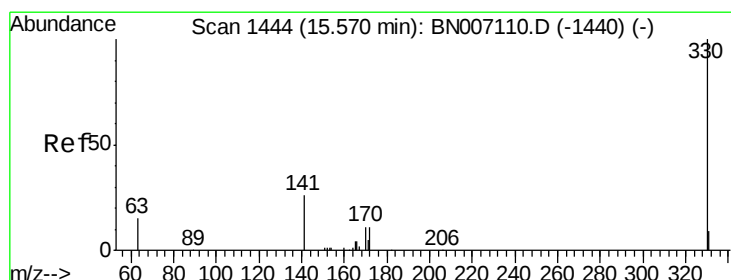
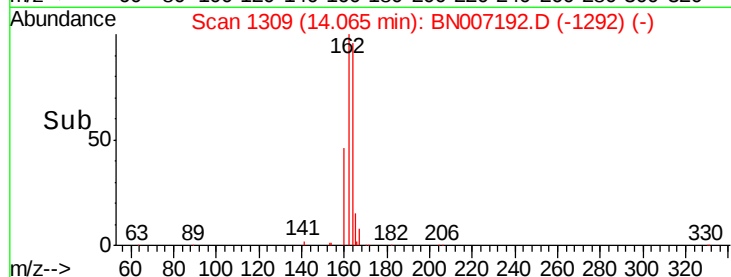
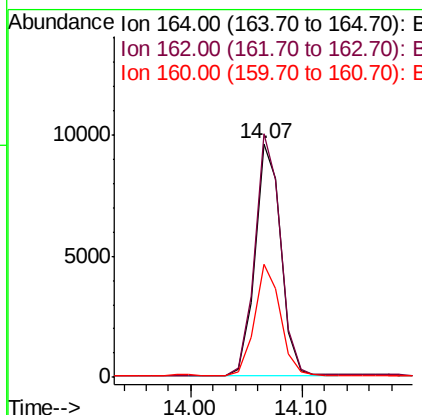
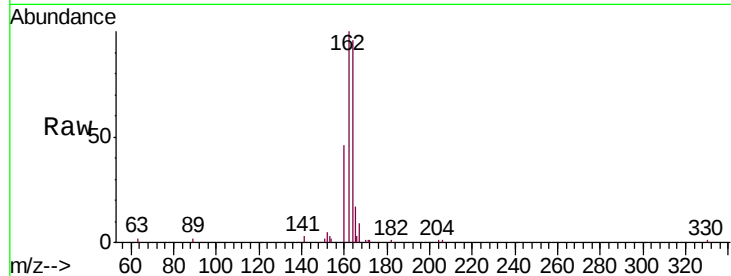
#12
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.07 min Scan# 1309
Delta R.T. -0.01 min
Lab File: BN007192.D
Acq: 15 Aug 2019 12:33

Instrument :
BNA_N
ClientSampleId :
EXT-013-SW154-080519

Tgt Ion	Ratio	Resp	Lower	Upper
164	100	15431		
162	104.3	82.2	123.4	
160	48.4	38.3	57.5	

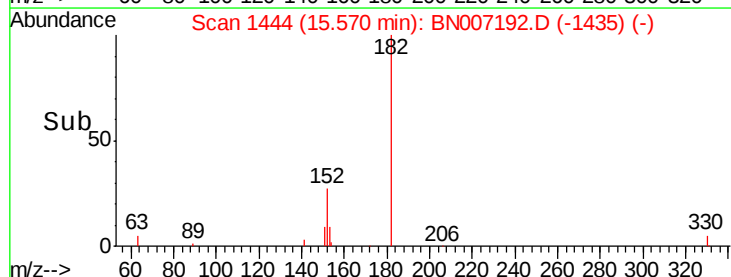
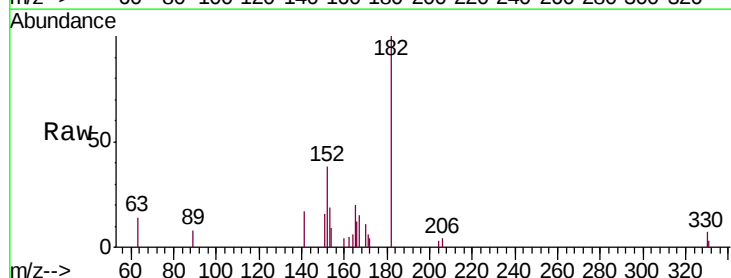
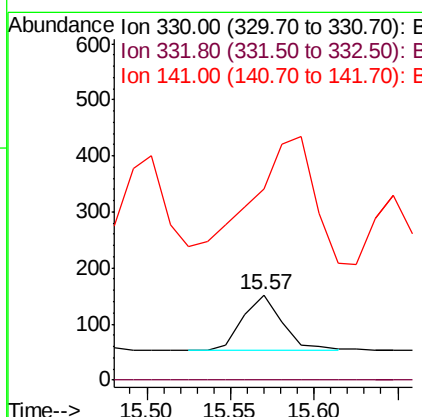
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#13
2,4,6-Tribromophenol
Concen: 0.019 ng
RT: 15.57 min Scan# 1444
Delta R.T. -0.00 min
Lab File: BN007192.D
Acq: 15 Aug 2019 12:33

Tgt Ion	Ratio	Resp	Lower	Upper
330	100	161		
332	0.0	0.0	0.0	
141	0.0	33.6	50.4	





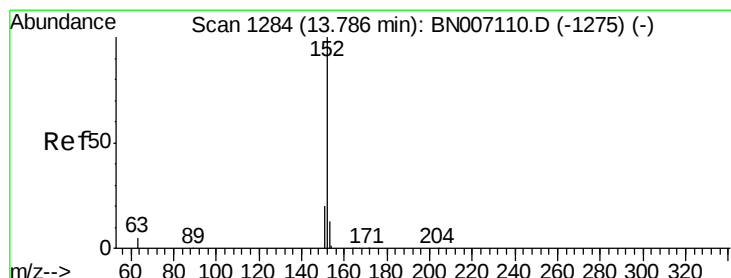
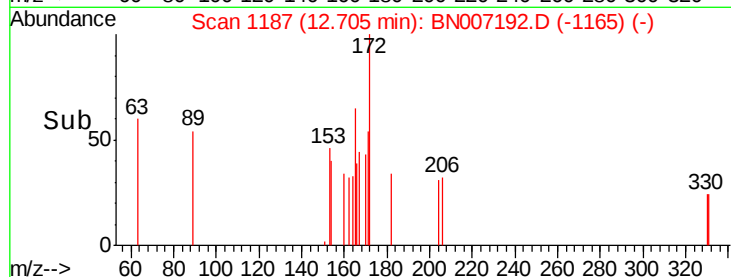
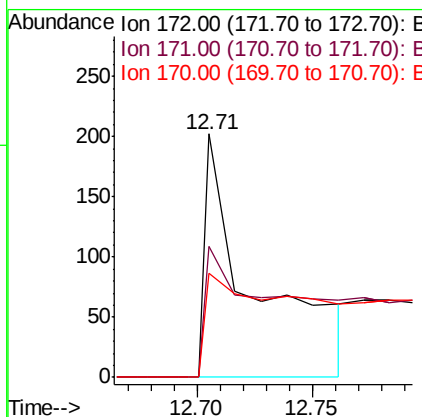
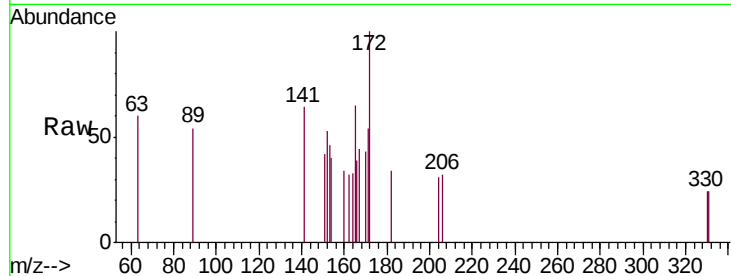
#14
2-Fluorobiphenyl
Concen: 0.013 ng
RT: 12.71 min Scan# 1187
Delta R.T. -0.00 min
Lab File: BN007192.D
Acq: 15 Aug 2019 12:33

Instrument :
BNA_N
ClientSampleId :
EXT-013-SW154-080519

Tgt Ion	Ratio	Lower	Upper
172	100		
171	54.0	26.3	39.5#
170	43.1	17.0	25.4#

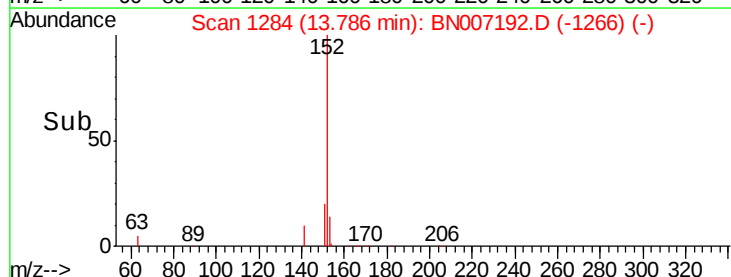
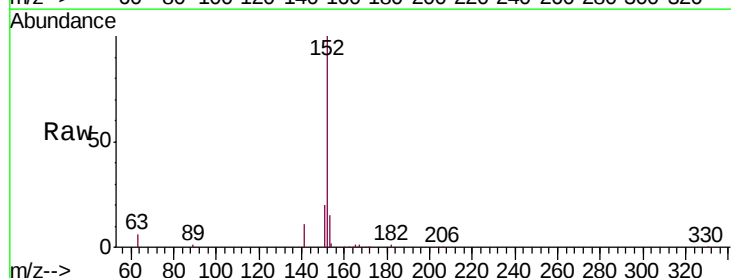
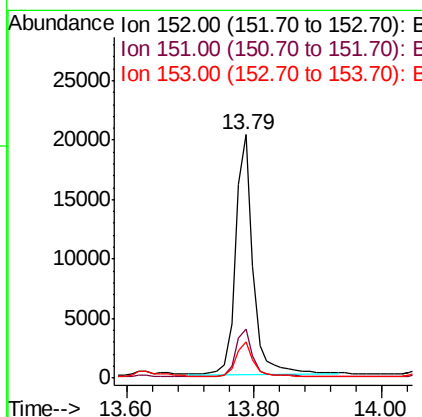
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#15
Acenaphthylene
Concen: 0.482 ng
RT: 13.79 min Scan# 1284
Delta R.T. -0.00 min
Lab File: BN007192.D
Acq: 15 Aug 2019 12:33

Tgt Ion	Ratio	Lower	Upper
152	100		
151	19.9	15.8	23.6
153	13.9	10.4	15.6





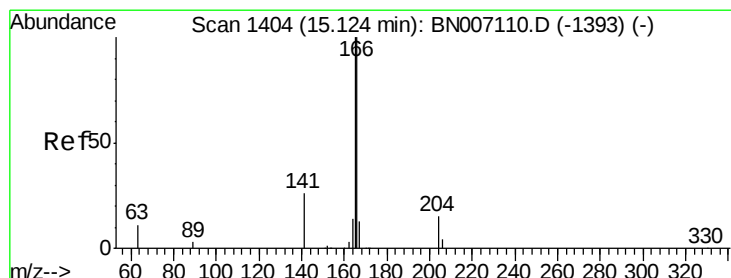
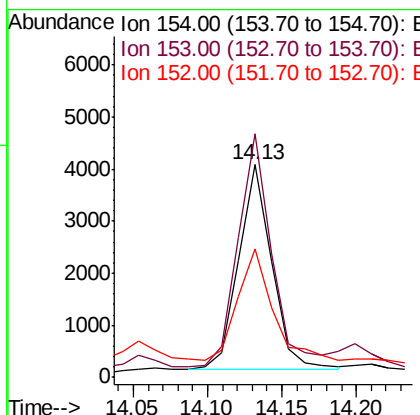
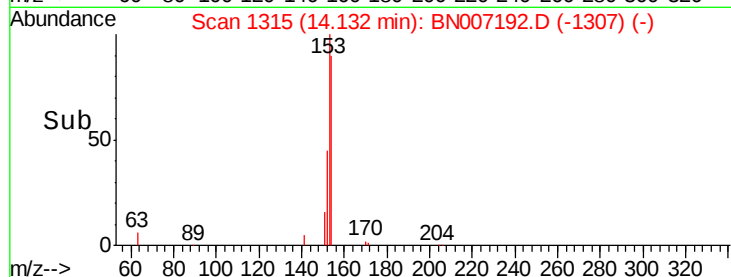
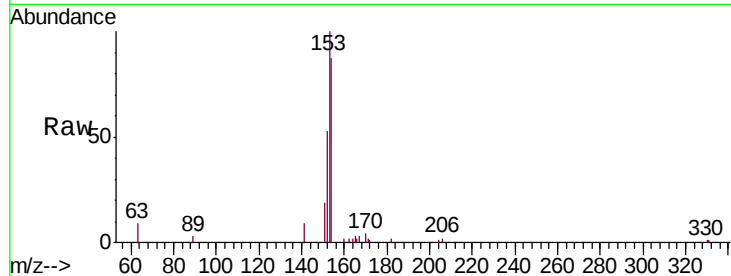
#16
Acenaphthene
Concen: 0.118 ng
RT: 14.13 min Scan# 1315
Delta R.T. -0.01 min
Lab File: BN007192.D
Acq: 15 Aug 2019 12:33

Instrument :
BNA_N
ClientSampleId :
EXT-013-SW154-080519

Tgt Ion	Ratio	Lower	Upper
154	100		
153	115.2	89.5	134.3
152	65.5	44.8	67.2

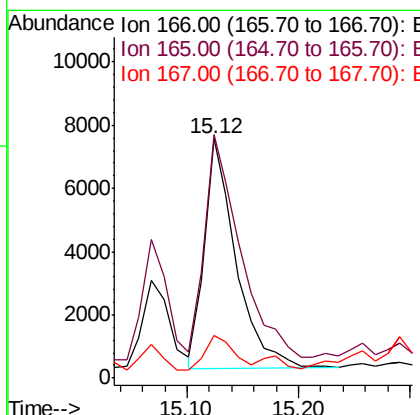
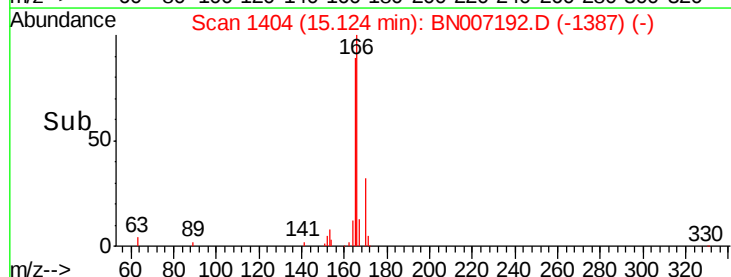
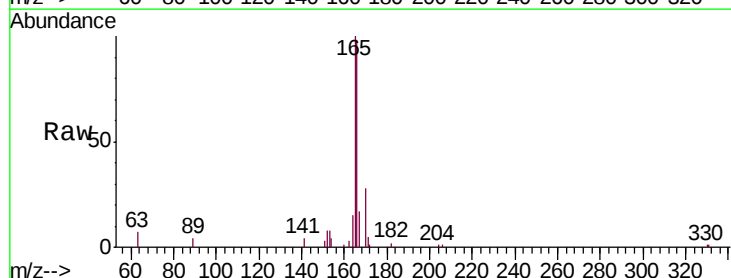
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#17
Fluorene
Concen: 0.185 ng
RT: 15.12 min Scan# 1404
Delta R.T. -0.01 min
Lab File: BN007192.D
Acq: 15 Aug 2019 12:33

Tgt Ion	Ratio	Lower	Upper
166	100		
165	111.3	77.9	116.9
167	14.0	10.9	16.3





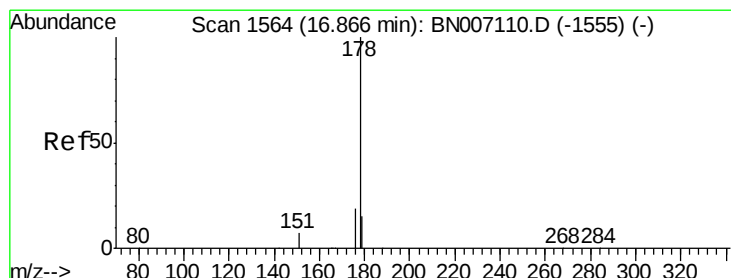
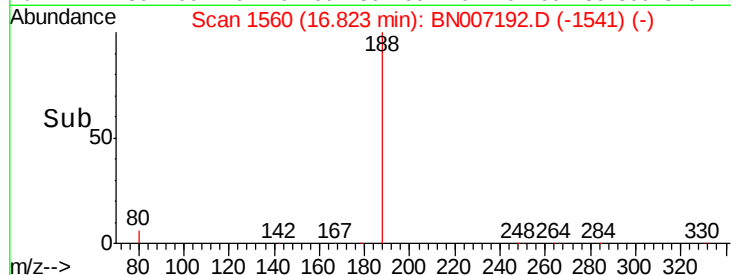
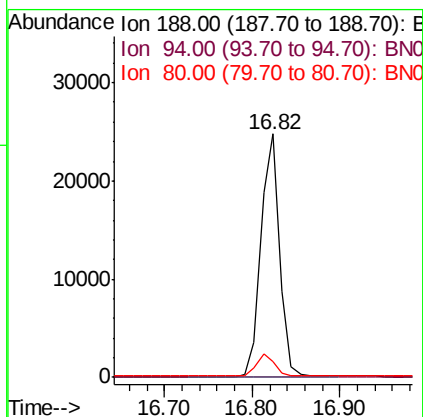
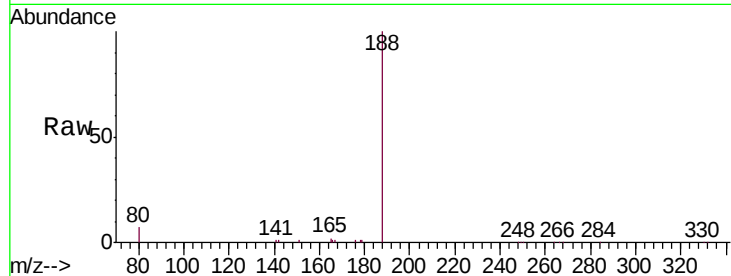
#18
 Phenanthrene-d10
 Concen: 0.400 ng
 RT: 16.82 min Scan# 1560
 Delta R.T. -0.00 min
 Lab File: BN007192.D
 Acq: 15 Aug 2019 12:33

Instrument :
 BNA_N
 ClientSampleId :
 EXT-013-SW154-080519

Tgt Ion	Ratio	Resp Lower	Resp Upper
188	100		
94	0.0	0.0	0.0
80	6.5	7.8	11.6#

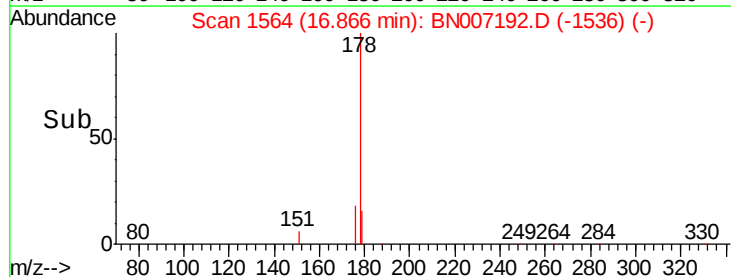
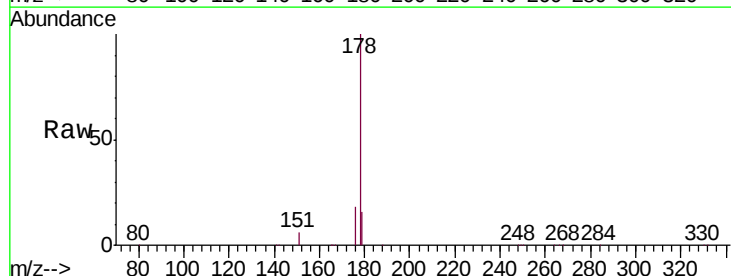
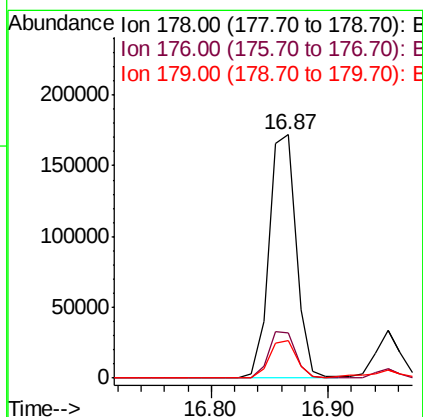
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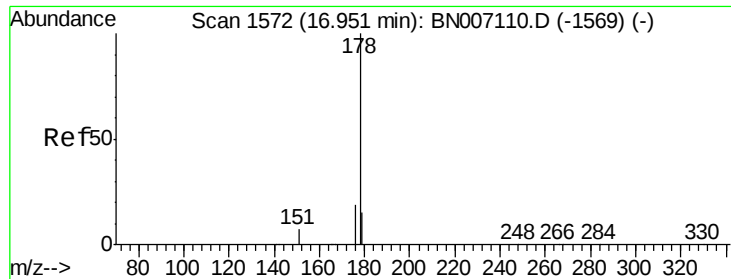
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#22
 Phenanthrene
 Concen: 2.528 ng
 RT: 16.87 min Scan# 1564
 Delta R.T. -0.00 min
 Lab File: BN007192.D
 Acq: 15 Aug 2019 12:33

Tgt Ion	Ratio	Resp Lower	Resp Upper
178	100		
176	19.1	15.2	22.8
179	15.5	12.3	18.5





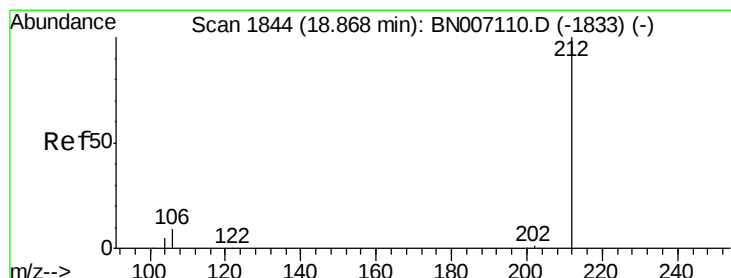
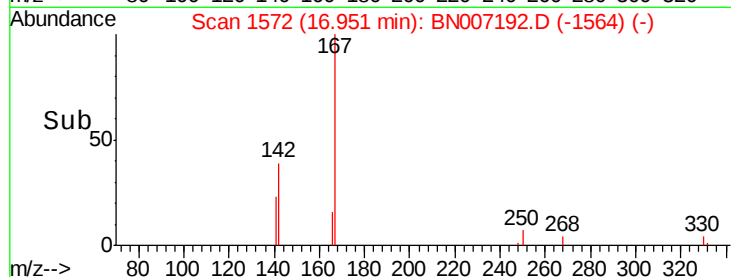
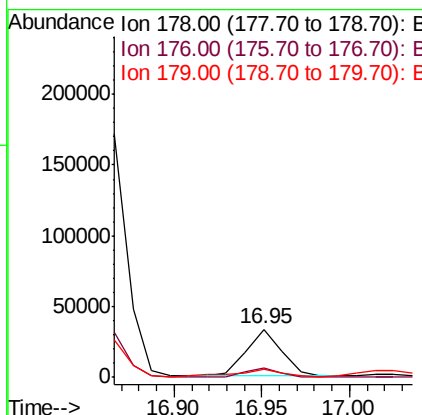
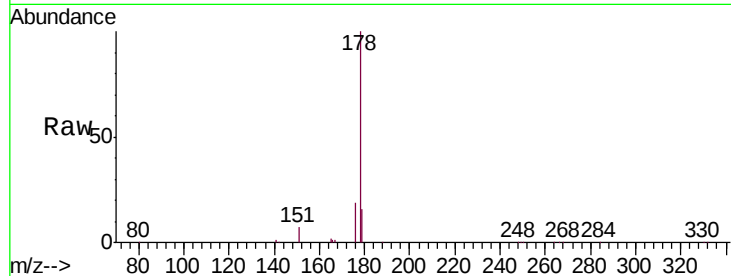
#23
 Anthracene
 Concen: 0.458 ng
 RT: 16.95 min Scan# 1572
 Delta R.T. -0.01 min
 Lab File: BN007192.D
 Acq: 15 Aug 2019 12:33

Instrument :
 BNA_N
 ClientSampleId :
 EXT-013-SW154-080519

Tgt Ion	Ratio	Lower	Upper
178	100		
176	18.4	14.6	21.8
179	19.6	12.5	18.7

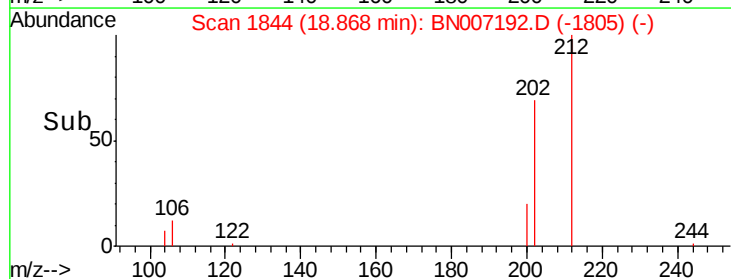
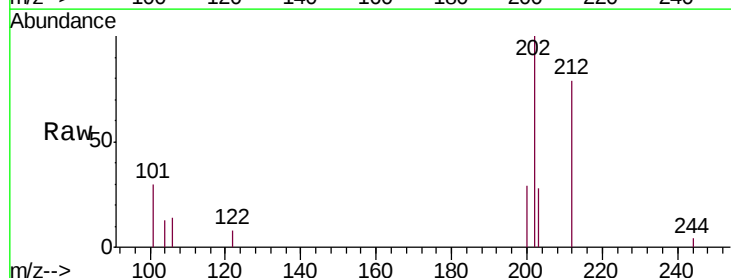
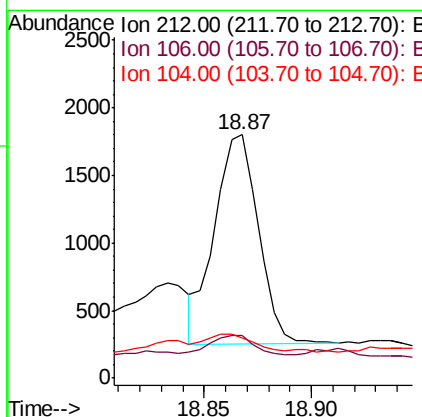
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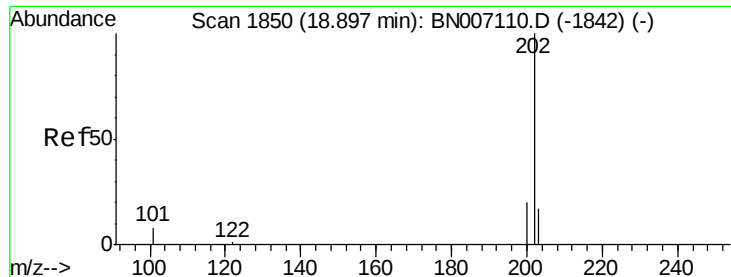
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#24
 Fluoranthene-d10
 Concen: 0.017 ng
 RT: 18.87 min Scan# 1844
 Delta R.T. -0.01 min
 Lab File: BN007192.D
 Acq: 15 Aug 2019 12:33

Tgt Ion	Ratio	Lower	Upper
212	100		
106	10.7	8.2	12.2
104	11.2	4.5	6.7





#25

Fluoranthene

Concen: 3.005 ng

RT: 18.90 min Scan# 1850

Delta R.T. -0.01 min

Lab File: BN007192.D

Acq: 15 Aug 2019 12:33

Instrument :

BNA_N

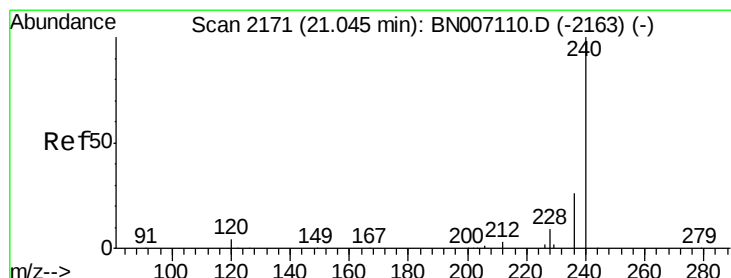
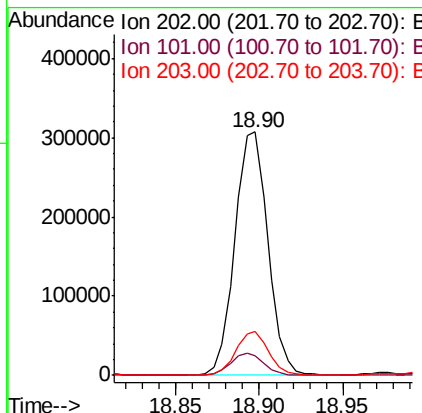
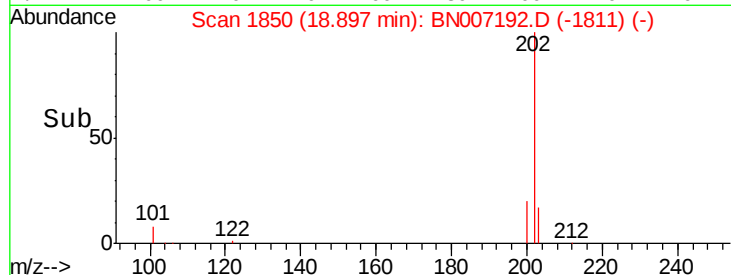
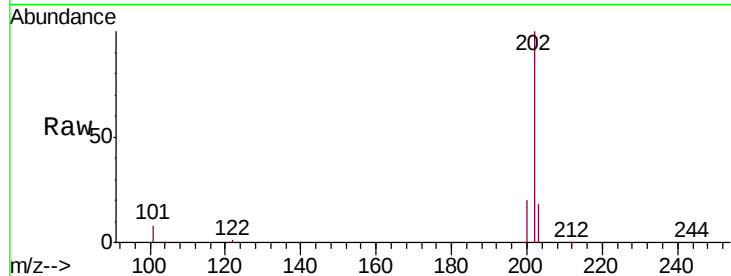
ClientSampleId :

EXT-013-SW154-080519

Tgt	Ion	202	Resp:	422109
Ion	Ratio	Lower	Upper	
202	100			
101	9.0	7.0	10.4	
203	17.7	13.8	20.8	

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#26

Chrysene-d12

Concen: 0.400 ng

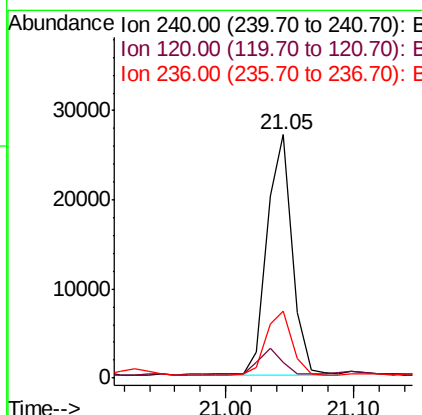
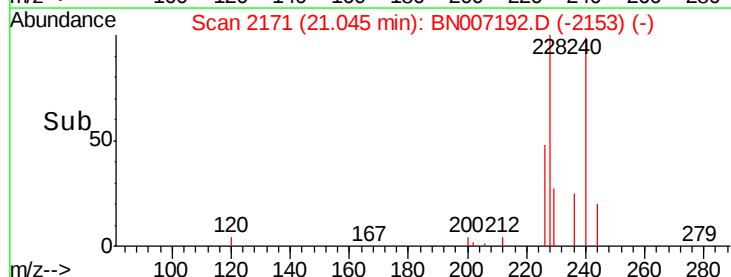
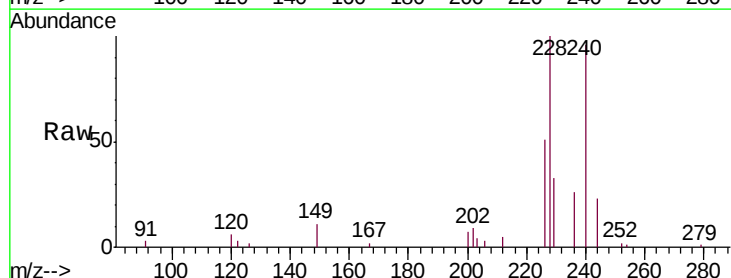
RT: 21.05 min Scan# 2171

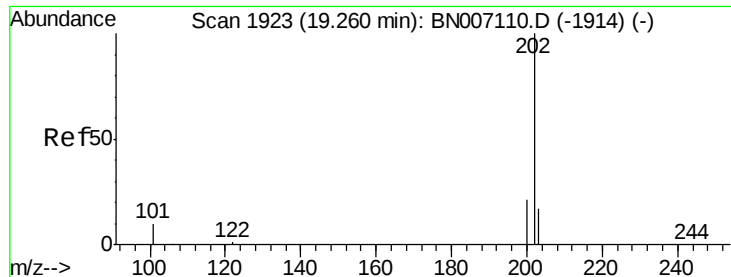
Delta R.T. -0.01 min

Lab File: BN007192.D

Acq: 15 Aug 2019 12:33

Tgt	Ion	240	Resp:	36908
Ion	Ratio	Lower	Upper	
240	100			
120	6.3	4.0	6.0#	
236	27.4	21.3	31.9	





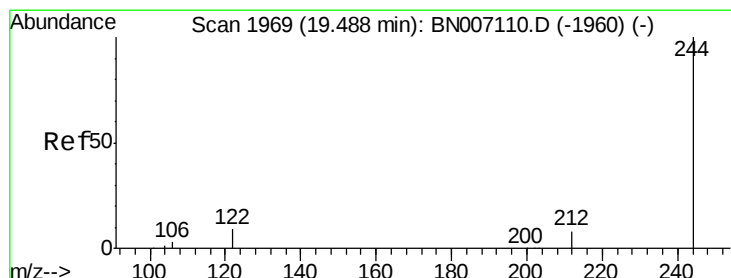
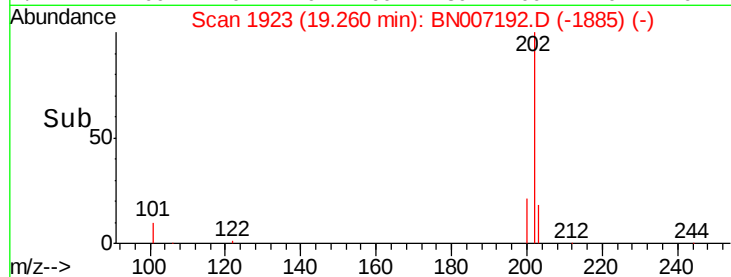
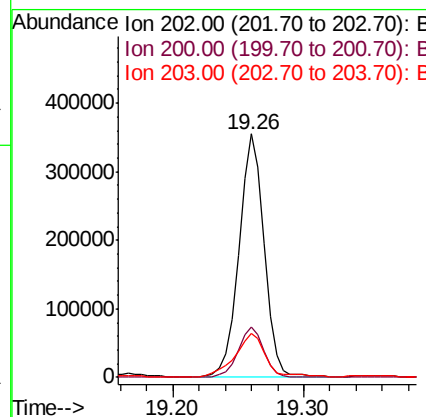
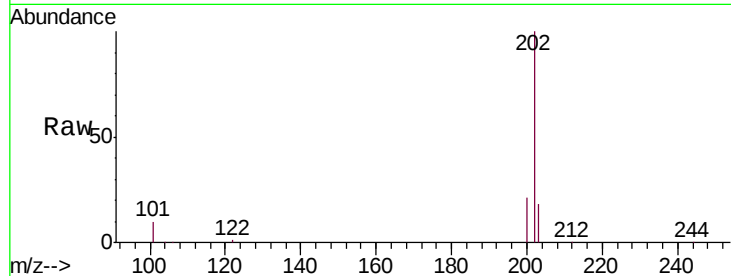
#27
Pyrene
Concen: 3.686 ng
RT: 19.26 min Scan# 1923
Delta R.T. -0.01 min
Lab File: BN007192.D
Acq: 15 Aug 2019 12:33

Instrument :
BNA_N
ClientSampleId :
EXT-013-SW154-080519

Tgt Ion	Ratio	Resp	Lower	Upper
202	100	477114		
200	20.8	16.6	24.8	
203	20.6	14.0	21.0	

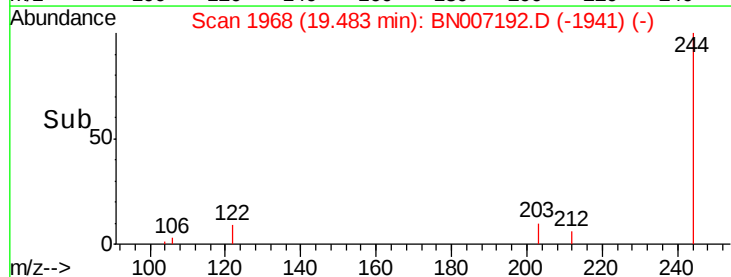
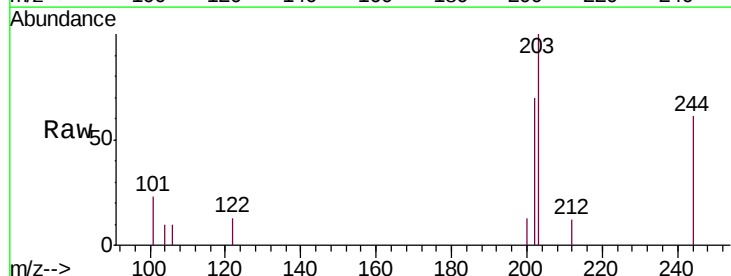
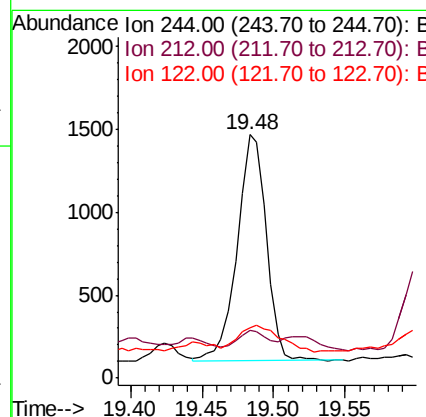
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#28
Terphenyl-d14
Concen: 0.019 ng
RT: 19.48 min Scan# 1968
Delta R.T. -0.02 min
Lab File: BN007192.D
Acq: 15 Aug 2019 12:33

Tgt Ion	Ratio	Resp	Lower	Upper
244	100	1940		
212	19.7	6.2	9.2#	
122	20.9	7.4	11.2#	





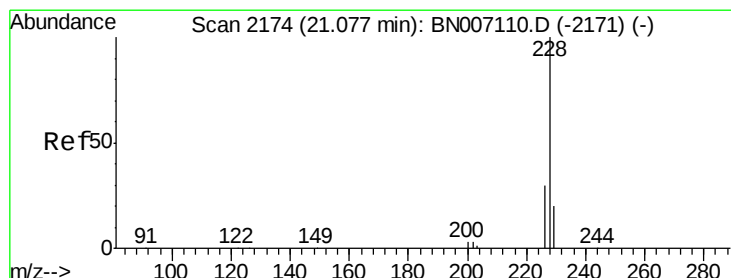
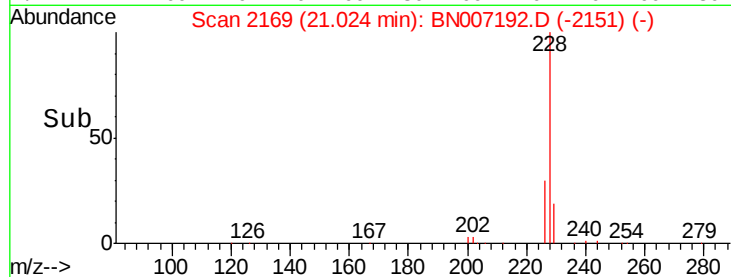
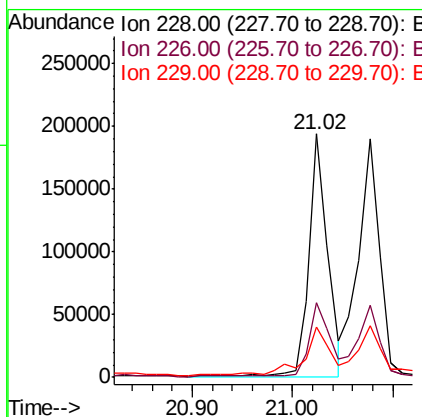
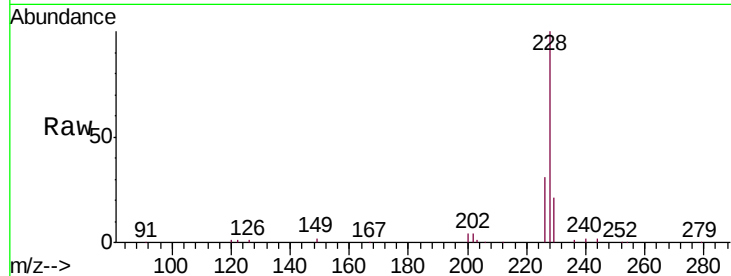
#29
Benzo(a)anthracene
Concen: 1.878 ng
RT: 21.02 min Scan# 2169
Delta R.T. -0.01 min
Lab File: BN007192.D
Acq: 15 Aug 2019 12:33

Instrument :
BNA_N
ClientSampleId :
EXT-013-SW154-080519

Tgt Ion	Ratio	Lower	Upper
228	100		
226	30.6	21.8	32.6
229	20.9	15.6	23.4

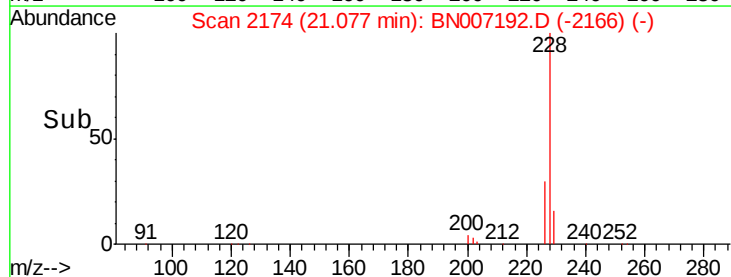
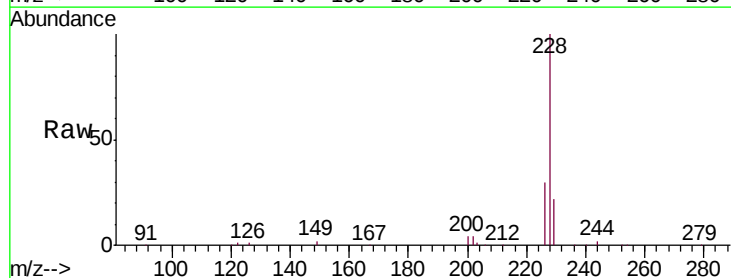
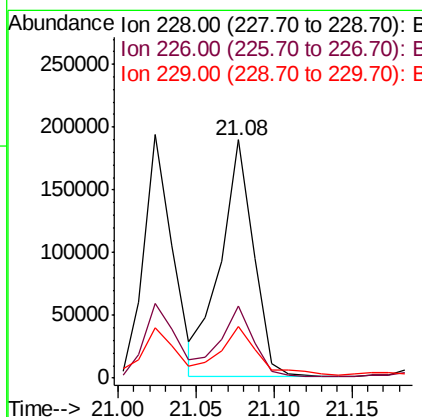
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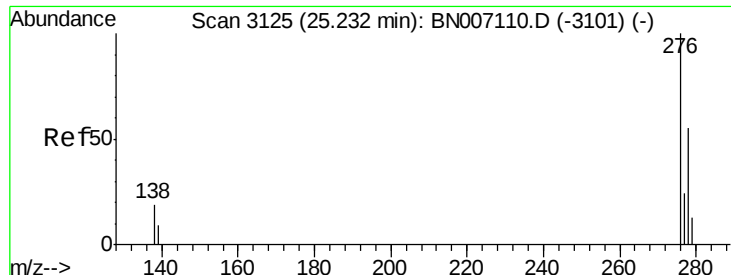
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#30
Chrysene
Concen: 2.111 ng
RT: 21.08 min Scan# 2174
Delta R.T. -0.01 min
Lab File: BN007192.D
Acq: 15 Aug 2019 12:33

Tgt Ion	Ratio	Lower	Upper
228	100		
226	30.0	23.8	35.6
229	21.8	15.7	23.5





#31

Indeno(1,2,3-cd)pyrene

Concen: 1.019 ng

RT: 25.23 min Scan# 3125

Delta R.T. -0.02 min

Lab File: BN007192.D

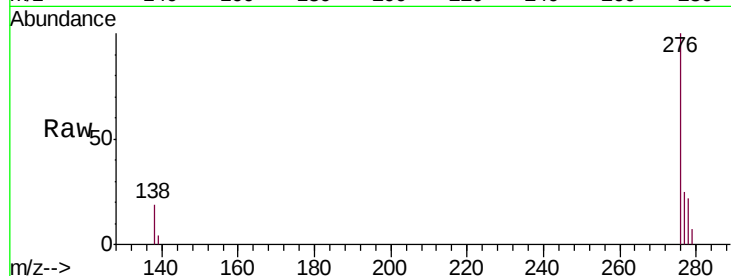
Acq: 15 Aug 2019 12:33

Instrument :

BNA_N

ClientSampleId :

EXT-013-SW154-080519



Tgt Ion: 276 Resp: 147303

Ion Ratio Lower Upper

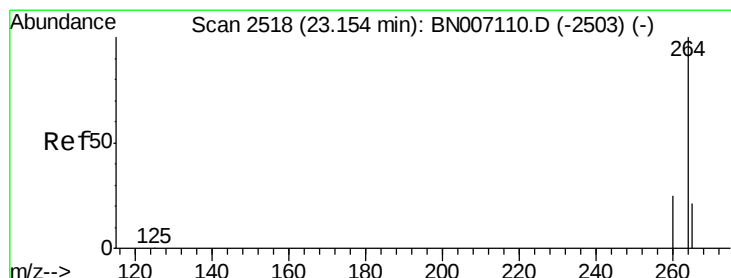
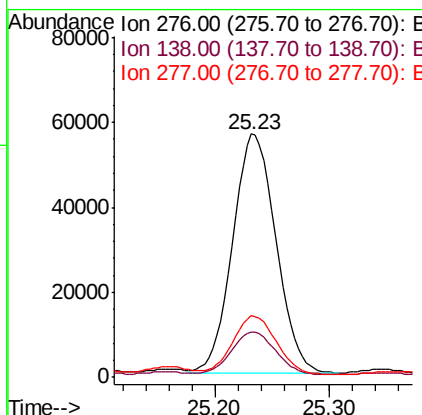
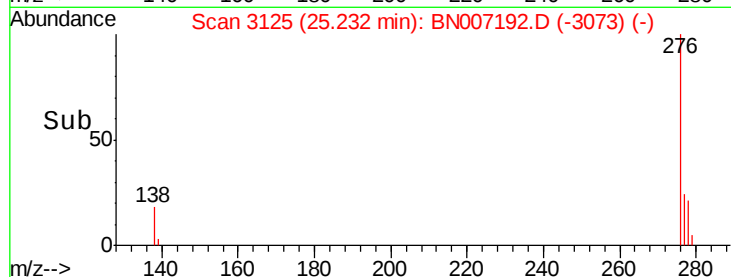
276 100

138 18.5 16.0 24.0

277 24.8 19.9 29.9

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#32

Perylene-d12

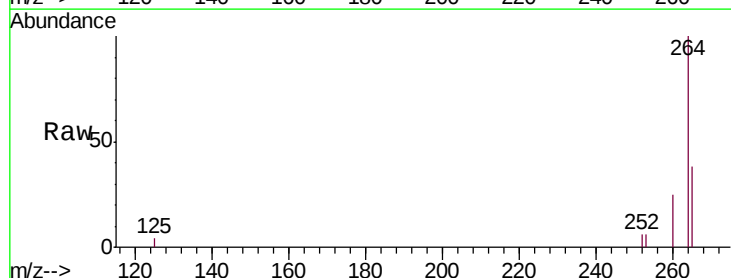
Concen: 0.400 ng

RT: 23.16 min Scan# 2520

Delta R.T. -0.01 min

Lab File: BN007192.D

Acq: 15 Aug 2019 12:33



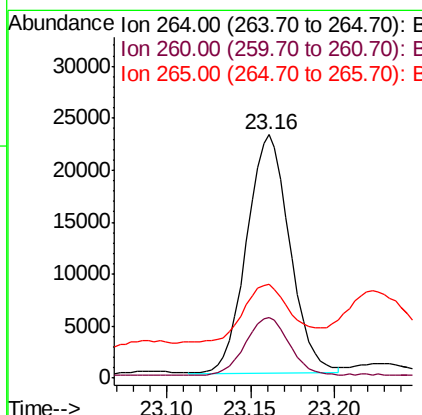
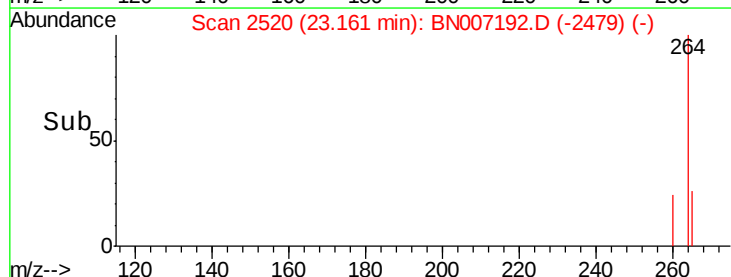
Tgt Ion: 264 Resp: 41245

Ion Ratio Lower Upper

264 100

260 25.0 19.8 29.8

265 38.4 26.2 39.4





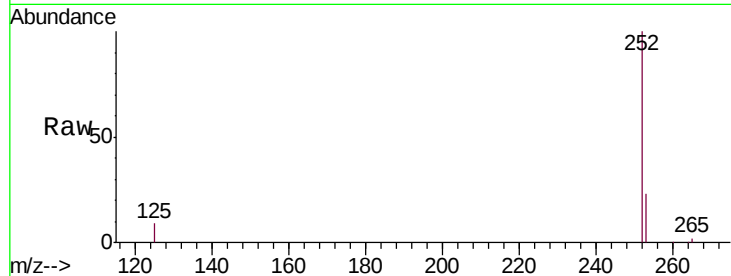
#33
Benzo(b)fluoranthene
Concen: 2.201 ng
RT: 22.54 min Scan# 2339
Delta R.T. -0.01 min
Lab File: BN007192.D
Acq: 15 Aug 2019 12:33

Instrument :
BNA_N
ClientSampleId :
EXT-013-SW154-080519

Tgt Ion	Ratio	Resp	Lower	Upper
252	100	311328		
253	23.0	18.2	27.2	
125	9.2	7.4	11.0	

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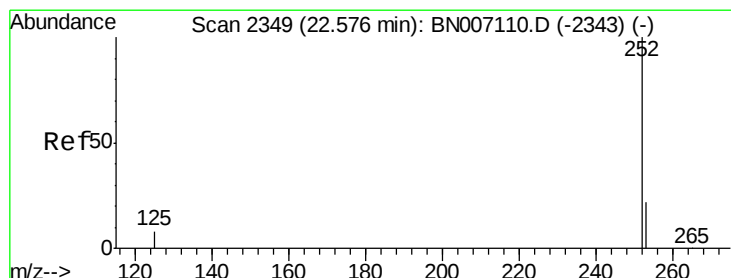
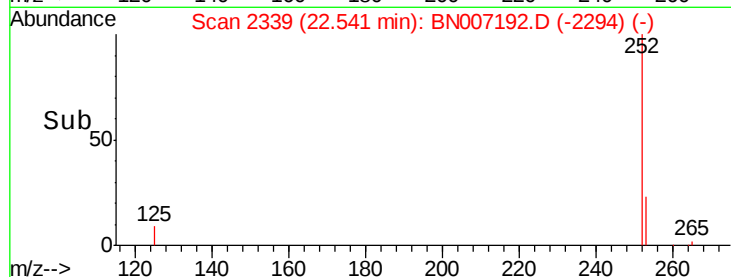
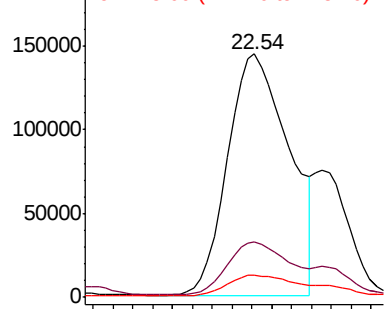


Abundance

Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



#34
Benzo(k)fluoranthene
Concen: 0.653 ng m
RT: 22.58 min Scan# 2349
Delta R.T. -0.01 min
Lab File: BN007192.D
Acq: 15 Aug 2019 12:33

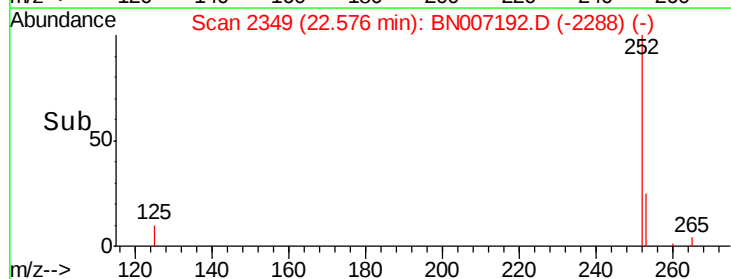
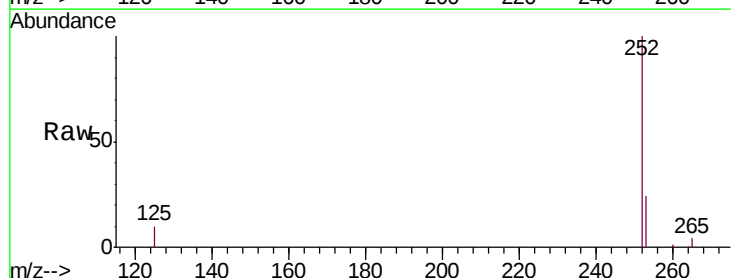
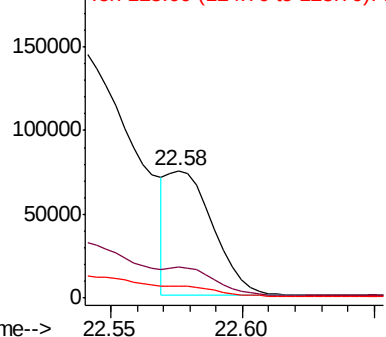
Tgt Ion	Ratio	Resp	Lower	Upper
252	100	91222		
253	24.2	18.1	27.1	
125	9.6	7.4	11.0	

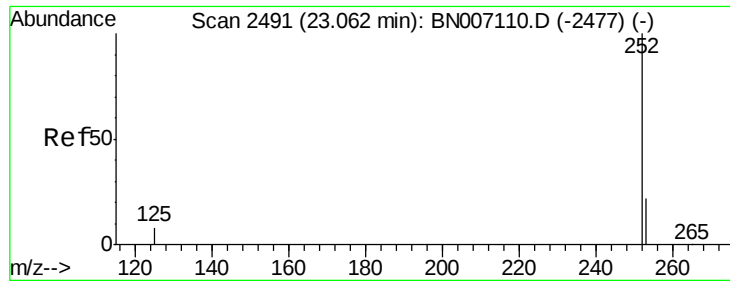
Abundance

Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





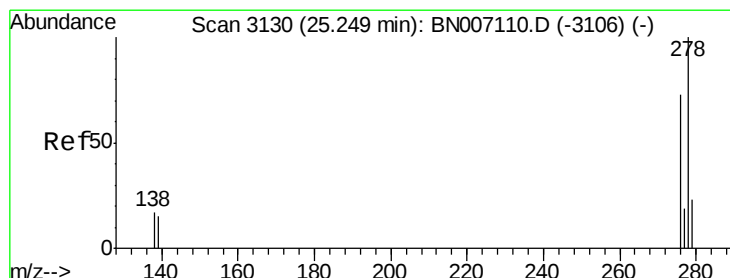
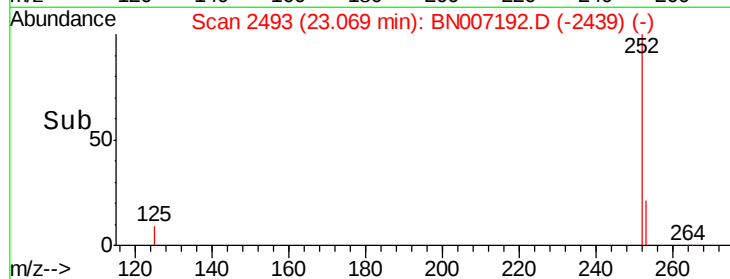
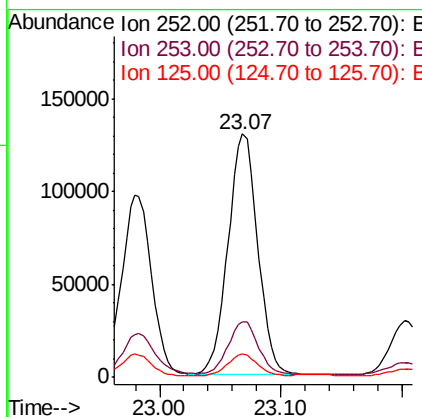
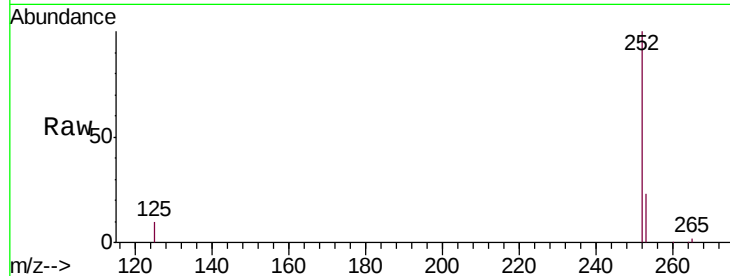
#35
Benzo(a)pyrene
Concen: 1.722 ng
RT: 23.07 min Scan# 2493
Delta R.T. -0.01 min
Lab File: BN007192.D
Acq: 15 Aug 2019 12:33

Instrument :
BNA_N
ClientSampleId :
EXT-013-SW154-080519

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.0	18.5	27.7
125	9.6	8.2	12.4

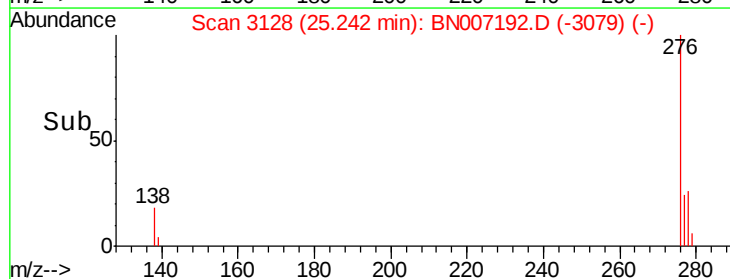
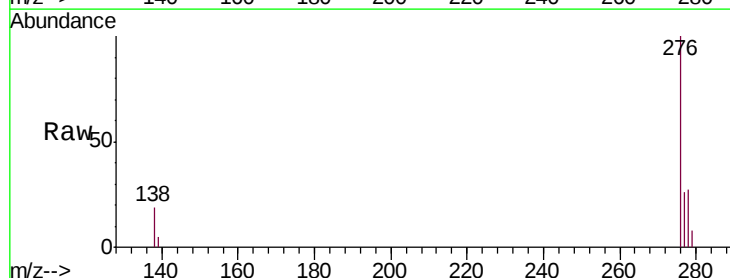
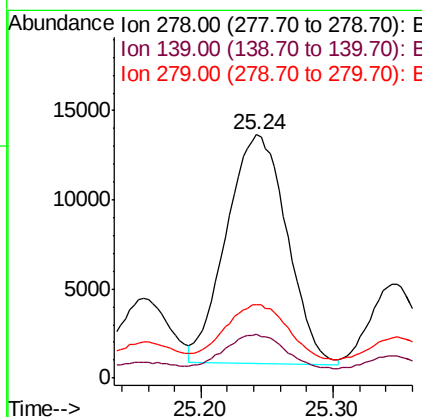
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#36
Dibenzo(a,h)anthracene
Concen: 0.320 ng
RT: 25.24 min Scan# 3128
Delta R.T. -0.03 min
Lab File: BN007192.D
Acq: 15 Aug 2019 12:33

Tgt Ion	Ratio	Lower	Upper
278	100		
139	17.9	11.3	16.9#
279	29.9	19.3	28.9#





#37
 Benzo(g,h,i)perylene
 Concen: 1.183 ng
 RT: 25.87 min Scan# 3310
 Delta R.T. -0.01 min
 Lab File: BN007192.D
 Acq: 15 Aug 2019 12:33

Instrument :
 BNA_N
 ClientSampleId :
 EXT-013-SW154-080519

Tgt	Ion	Ratio	Resp	Lower	Upper
276	100		155698		
277	24.5	19.8	29.8		
138	18.8	14.6	22.0		

Manual Integrations
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