

Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN081619\
 Data File : BN007237.D
 Acq On : 17 Aug 2019 00:51
 Operator : HP/JU
 Sample : K4282-19
 Misc :
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 EXT-011-SW151-080819

Manual Integrations
 APPROVED

mohammad
 8/20/2019 8:43:53 AM

Quant Time: Aug 19 04:49:47 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	7.42	152	7734	0.40	ng	-0.02
6) Naphthalene-d8	10.17	136	29858	0.40	ng	-0.01
12) Acenaphthene-d10	14.07	164	17257	0.40	ng	-0.01
18) Phenanthrene-d10	16.81	188	39328	0.40	ng	-0.01
26) Chrysene-d12	21.03	240	36724	0.40	ng	-0.02
32) Perylene-d12	23.15	264	42186	0.40	ng	-0.02

System Monitoring Compounds

3) 2-Fluorophenol	5.05	112	6250	0.34	ng	0.00
4) Phenol-d6	6.61	99	8152	0.35	ng	0.00
7) Nitrobenzene-d5	8.55	82	6802	0.28	ng	-0.01
10) 2-Methylnaphthalene-d10	11.78	152	13165	0.24	ng	-0.02
13) 2,4,6-Tribromophenol	15.56	330	2353	0.25	ng	-0.01
14) 2-Fluorobiphenyl	12.71	172	660	0.03	ng	0.00
24) Fluoranthene-d10	18.86	212	27688	0.20	ng	0.00
28) Terphenyl-d14	19.48	244	19659	0.20	ng	-0.02

Target Compounds

						Qvalue
8) Naphthalene	10.23	128	40825	0.488	ng	99
11) 2-Methylnaphthalene	11.85	142	25921	0.437	ng	96
15) Acenaphthylene	13.78	152	265038	2.938	ng	100
16) Acenaphthene	14.13	154	10992	0.190	ng	# 90
17) Fluorene	15.12	166	33658	0.389	ng	# 81
21) Pentachlorophenol	16.47	266	640	0.073	ng	93
22) Phenanthrene	16.86	178	585812	4.970	ng	100
23) Anthracene	16.95	178	241059	2.239	ng	99
25) Fluoranthene	18.89	202	1387429	9.202	ng	99
27) Pyrene	19.25	202	1515520	11.768	ng	97
29) Benzo(a)anthracene	21.01	228	781986m	5.823	ng	
30) Chrysene	21.07	228	979842	7.509	ng	97
31) Indeno(1,2,3-cd)pyrene	25.22	276	567135	3.944	ng	98
33) Benzo(b)fluoranthene	22.53	252	1287095	8.897	ng	100
34) Benzo(k)fluoranthene	22.56	252	363776m	2.546	ng	
35) Benzo(a)pyrene	23.06	252	760881	5.802	ng	99
36) Dibenzo(a,h)anthracene	25.23	278	150148	1.147	ng	# 91
37) Benzo(a,h,i)perylene	25.85	276	576260	4.281	ng	99

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

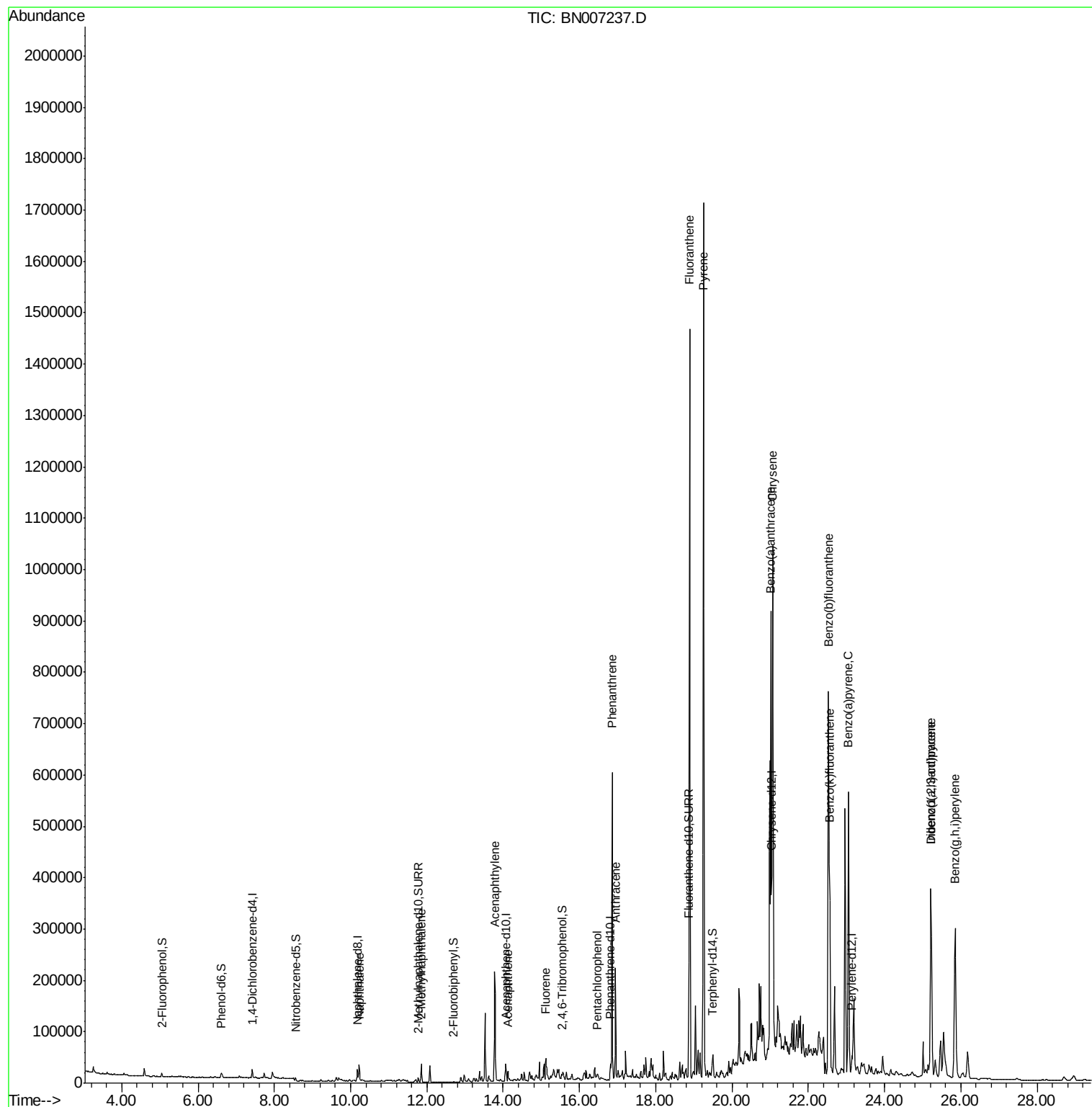
Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN081619\
Data File : BN007237.D
Acq On : 17 Aug 2019 00:51
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Misc :
ALS Vial : 18 Sample Multiplier: 1

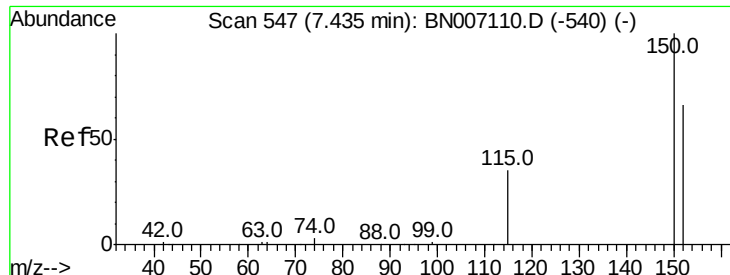
Instrument :
BNA_N
ClientSampleId :
EXT-011-SW151-080819

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8/20/2019 8:43:53 AM

Quant Time: Aug 19 04:49:47 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
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#1

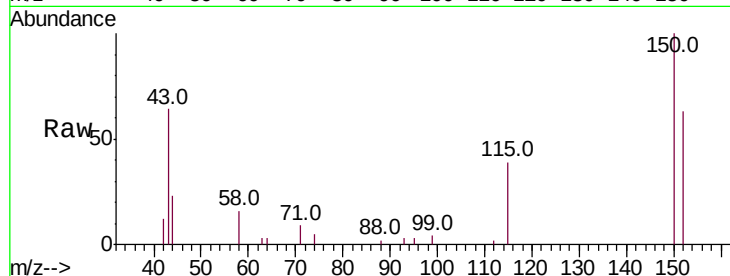
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.42 min Scan# 545
Delta R.T. -0.02 min
Lab File: BN007237.D
Acq: 17 Aug 2019 00:51

Instrument :
BNA_N
ClientSampleId :
EXT-011-SW151-080819

Tot Ion	Ratio	Lower	Upper
152	100		
150	158.4	121.7	182.5
115	62.0	46.2	69.4

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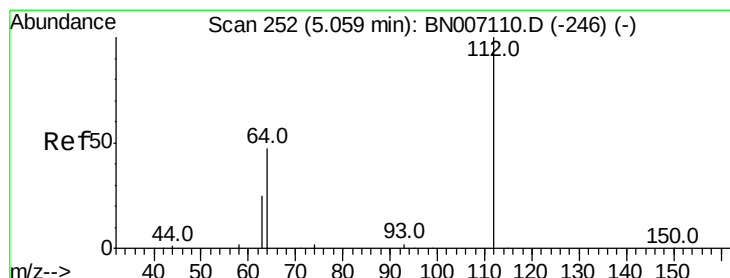
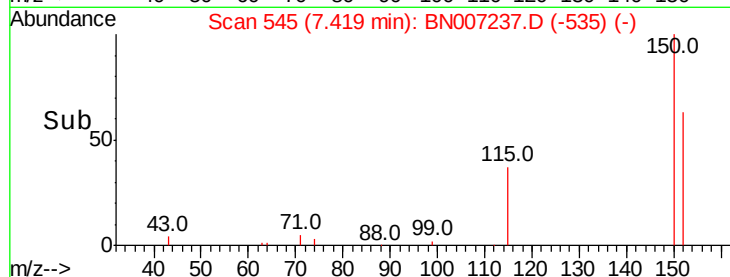
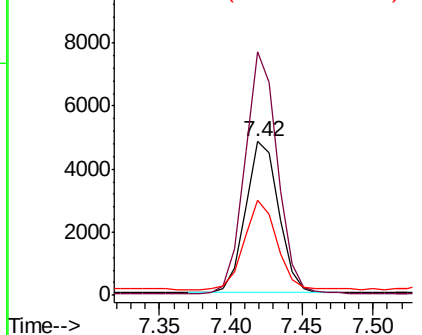


Abundance

Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

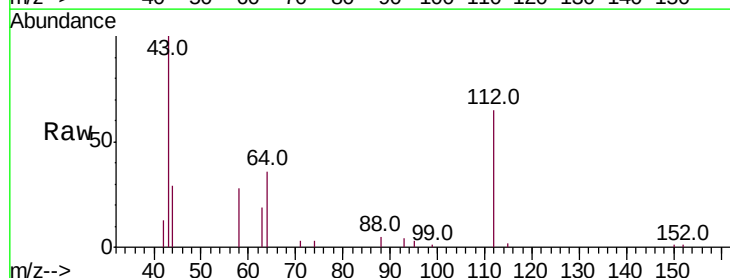
Ion 115.00 (114.70 to 115.70): E



#3

2-Fluorophenol
Concen: 0.336 ng
RT: 5.05 min Scan# 251
Delta R.T. -0.01 min
Lab File: BN007237.D
Acq: 17 Aug 2019 00:51

Tgt Ion	Ratio	Lower	Upper
112	100		
64	51.2	42.6	63.8
63	26.6	22.2	33.2

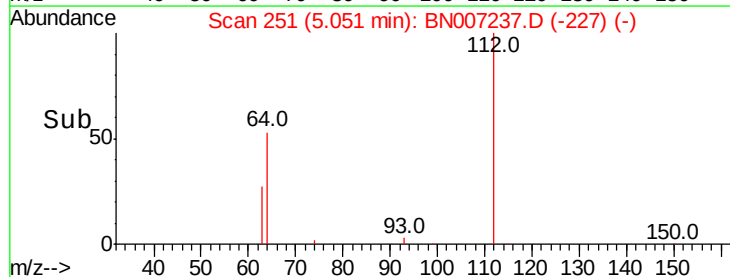
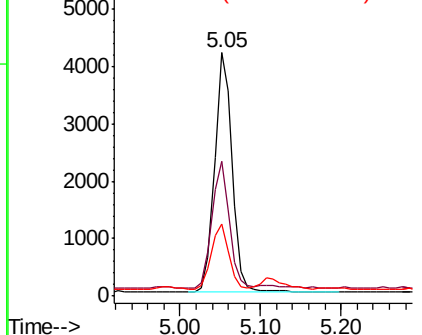


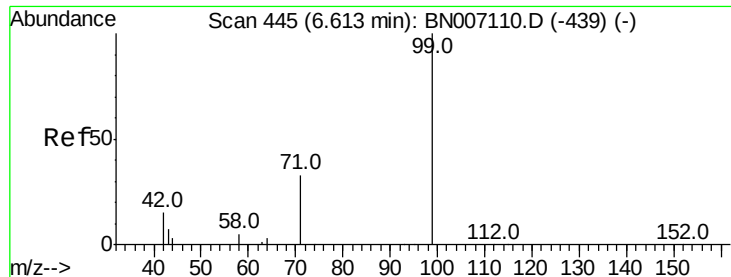
Abundance

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: 0.354 ng

RT: 6.61 min Scan# 445

Delta R.T. -0.00 min

Lab File: BN007237.D

Acq: 17 Aug 2019 00:51

Instrument :

BNA_N

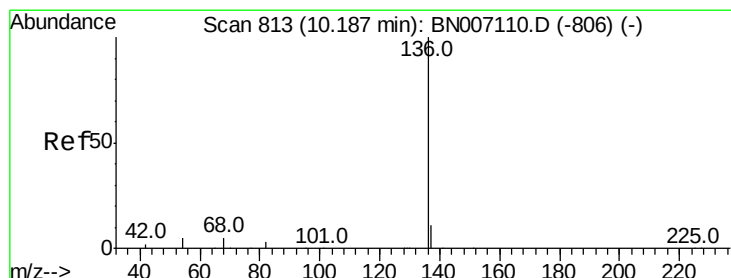
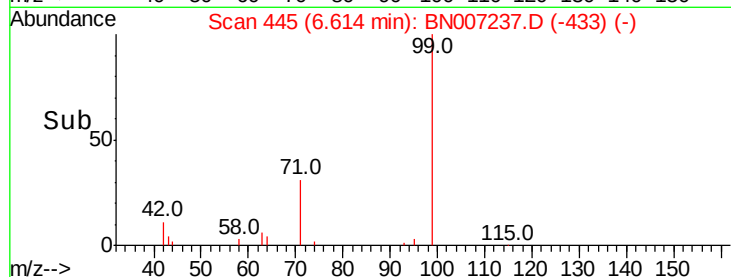
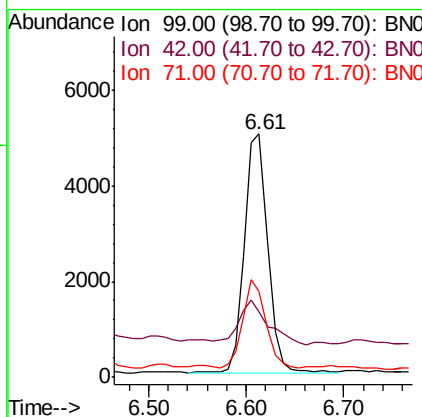
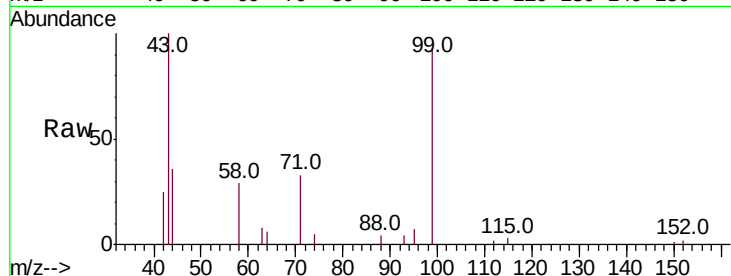
ClientSampleId :

EXT-011-SW151-080819

Tot Ion:	99	Resp:	8152
Ion	Ratio	Lower	Upper
99	100		
42	23.5	15.8	23.6
71	36.5	27.0	40.4

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#6

Naphthalene-d8

Concen: 0.400 ng

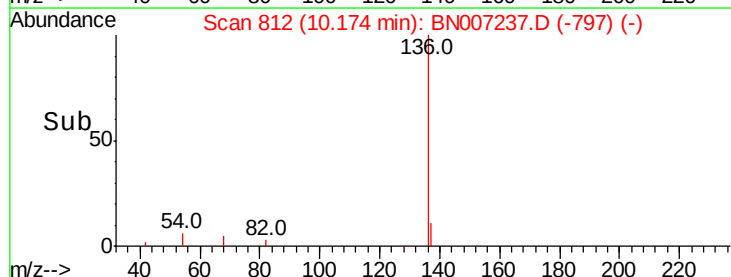
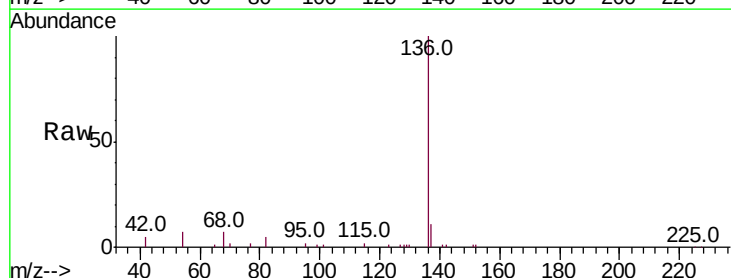
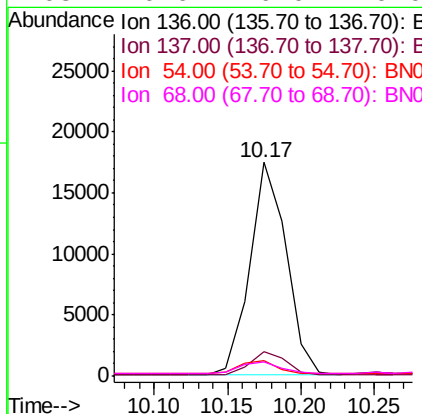
RT: 10.17 min Scan# 812

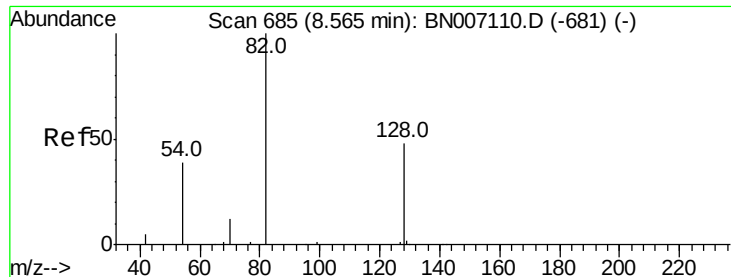
Delta R.T. -0.01 min

Lab File: BN007237.D

Acq: 17 Aug 2019 00:51

Tgt Ion:	136	Resp:	29858
Ion	Ratio	Lower	Upper
136	100		
137	11.1	9.4	14.0
54	7.4	6.6	9.8
68	6.6	6.0	9.0





#7

Nitrobenzene-d5

Concen: 0.283 ng

RT: 8.55 min Scan# 684

Delta R.T. -0.01 min

Lab File: BN007237.D

Acq: 17 Aug 2019 00:51

Instrument :

BNA_N

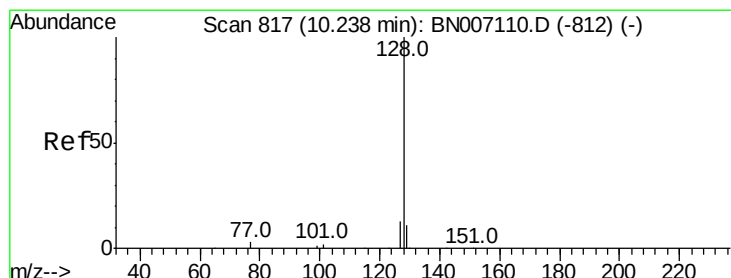
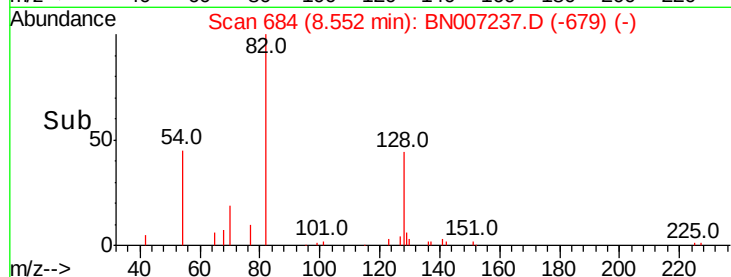
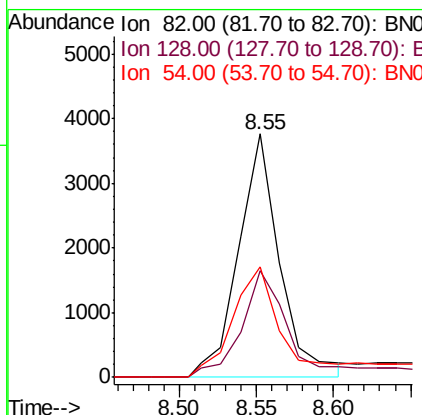
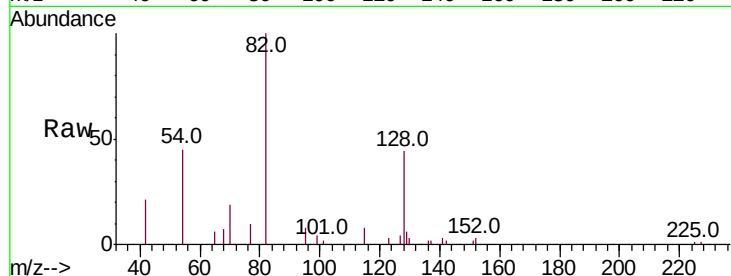
ClientSampleId :

EXT-011-SW151-080819

Tot Ion:	82	Resp:	6802
Ion Ratio	Lower	Upper	
82	100		
128	44.0	34.6	51.8
54	45.3	36.2	54.4

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#8

Naphthalene

Concen: 0.488 ng

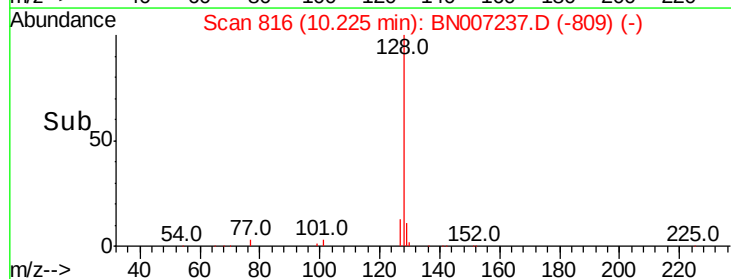
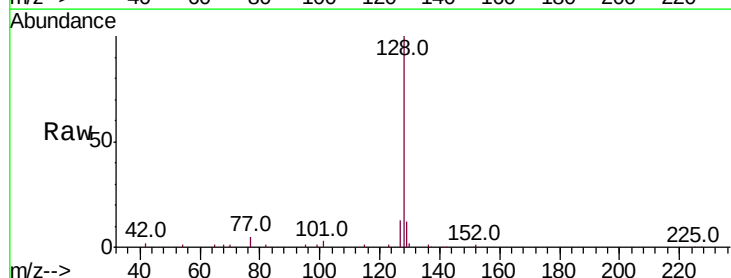
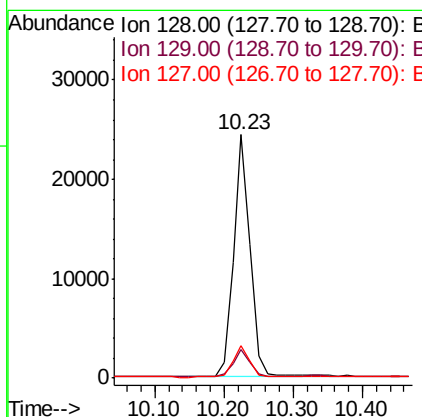
RT: 10.23 min Scan# 816

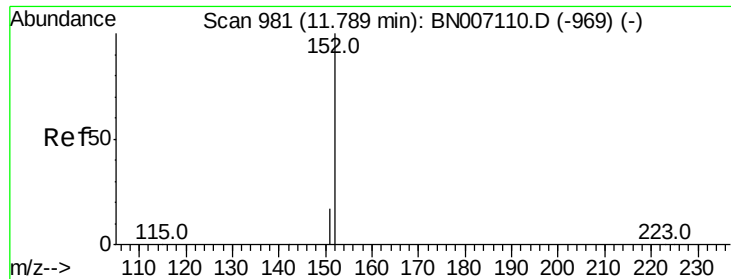
Delta R.T. -0.01 min

Lab File: BN007237.D

Acq: 17 Aug 2019 00:51

Tgt Ion:	128	Resp:	40825
Ion Ratio	Lower	Upper	
128	100		
129	11.6	9.4	14.2
127	13.3	11.0	16.6





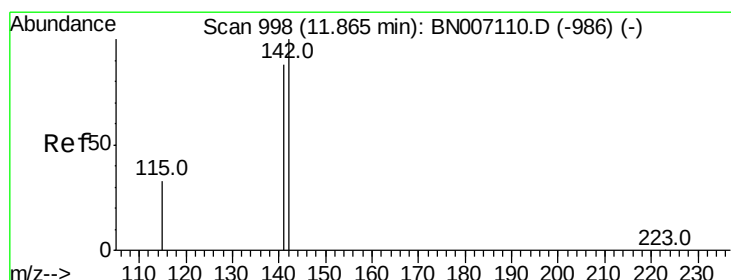
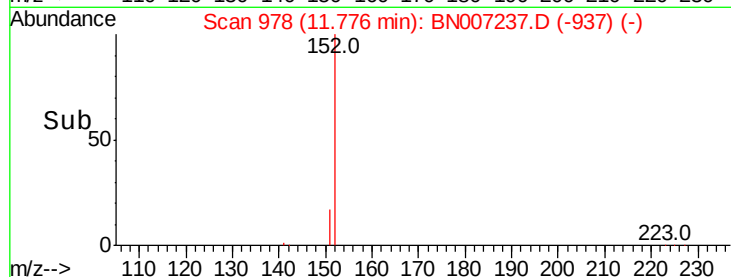
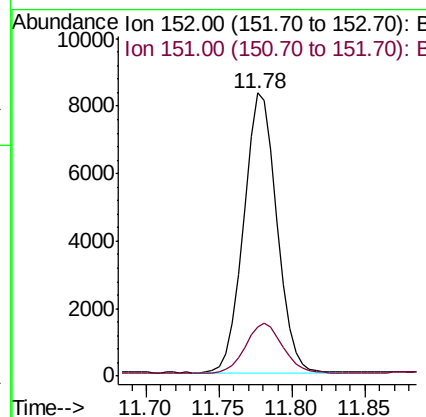
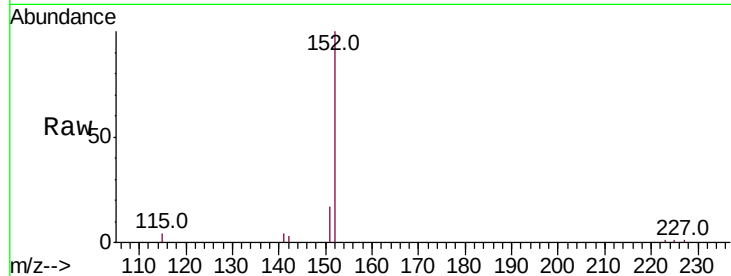
#10
2-Methylnaphthalene-d10
Concen: 0.236 ng
RT: 11.78 min Scan# 978
Delta R.T. -0.02 min
Lab File: BN007237.D
Acq: 17 Aug 2019 00:51

Instrument :
BNA_N
ClientSampleId :
EXT-011-SW151-080819

Tot Ion	Ratio	Lower	Upper
152	100		
151	19.6	15.5	23.3

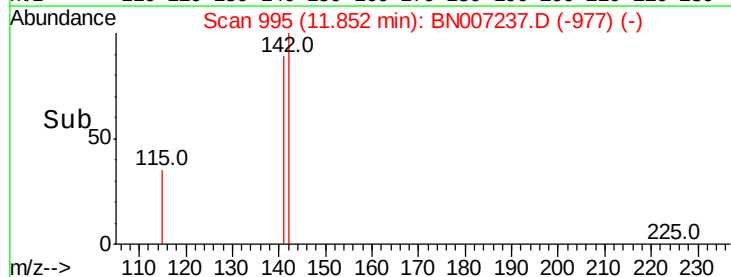
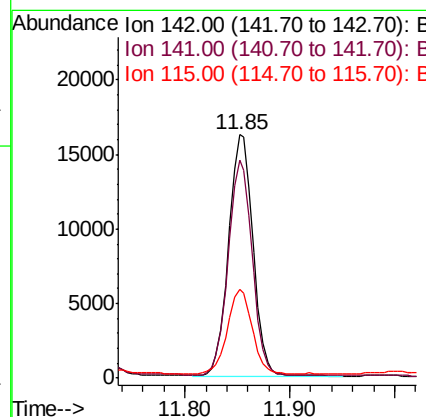
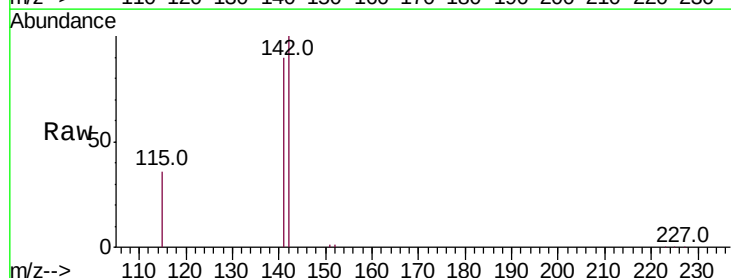
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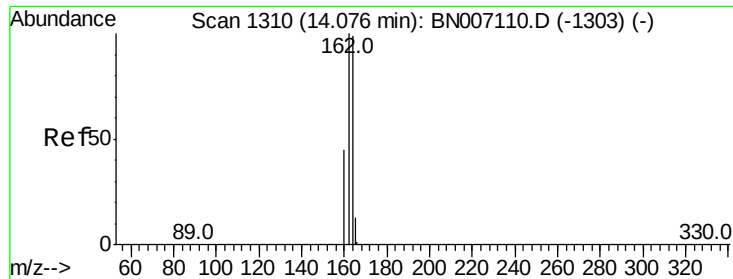
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#11
2-Methylnaphthalene
Concen: 0.437 ng
RT: 11.85 min Scan# 995
Delta R.T. -0.02 min
Lab File: BN007237.D
Acq: 17 Aug 2019 00:51

Tgt Ion	Ratio	Lower	Upper
142	100		
141	89.6	69.0	103.6
115	36.4	27.1	40.7





#12

Acenaphthene-d10

Concen: 0.400 ng

RT: 14.07 min Scan# 1309

Delta R.T. -0.01 min

Lab File: BN007237.D

Acq: 17 Aug 2019 00:51

Instrument :

BNA_N

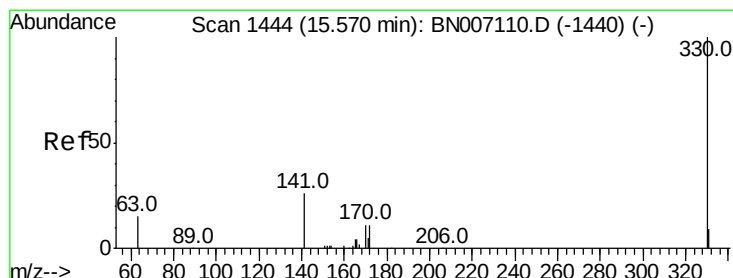
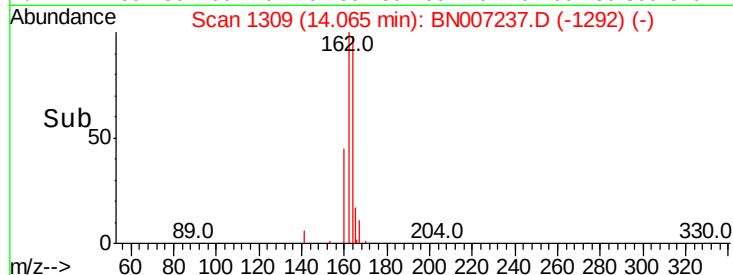
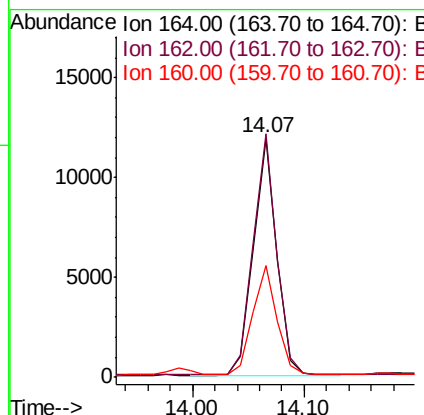
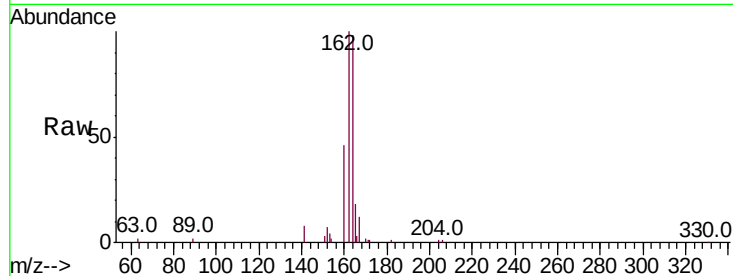
ClientSampleId :

EXT-011-SW151-080819

Tot Ion:	164	Resp:	17257
Ion Ratio	Lower	Upper	
164	100		
162	102.0	82.2	123.4
160	47.1	38.3	57.5

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#13

2,4,6-Tribromophenol

Concen: 0.253 ng

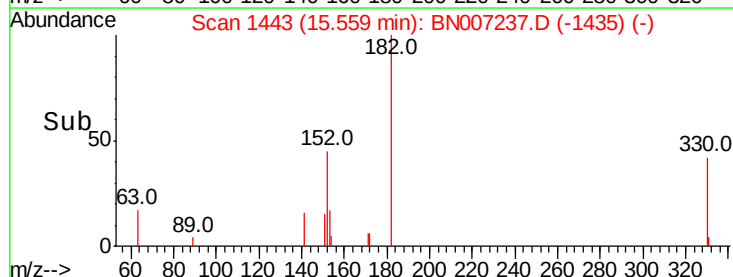
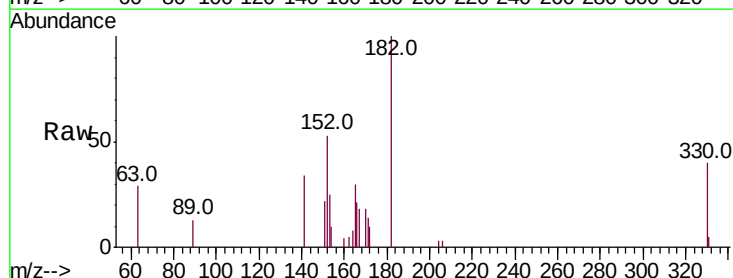
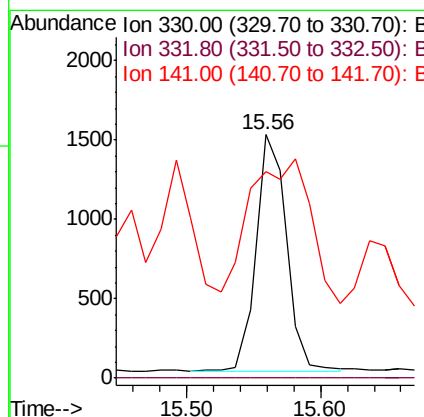
RT: 15.56 min Scan# 1443

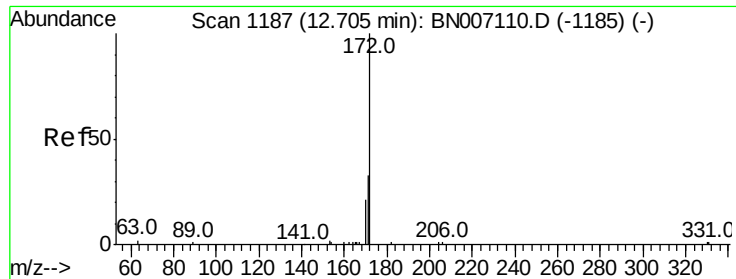
Delta R.T. -0.01 min

Lab File: BN007237.D

Acq: 17 Aug 2019 00:51

Tgt Ion:	330	Resp:	2353
Ion Ratio	Lower	Upper	
330	100		
332	0.0	0.0	0.0
141	0.0	33.6	50.4#





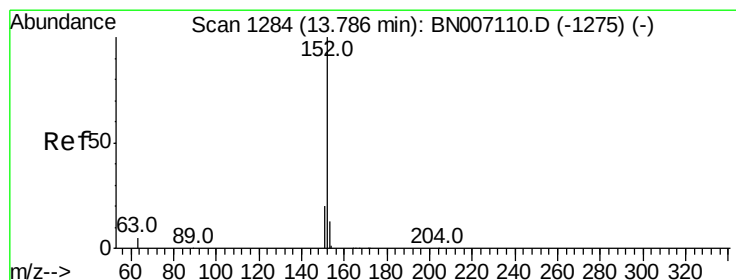
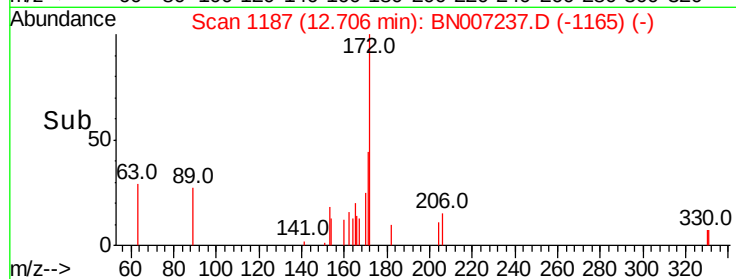
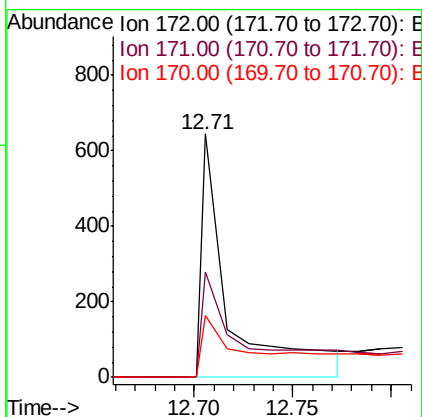
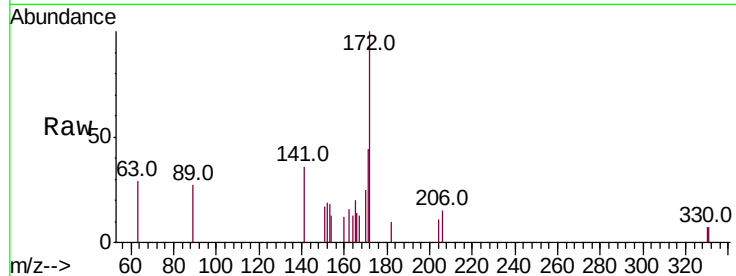
#14
2-Fluorobiphenyl
Concen: 0.026 ng
RT: 12.71 min Scan# 1187
Delta R.T. -0.00 min
Lab File: BN007237.D
Acq: 17 Aug 2019 00:51

Instrument :
BNA_N
ClientSampleId :
EXT-011-SW151-080819

Tot Ion	Ratio	Lower	Upper
172	100		
171	43.6	26.3	39.5#
170	25.4	17.0	25.4

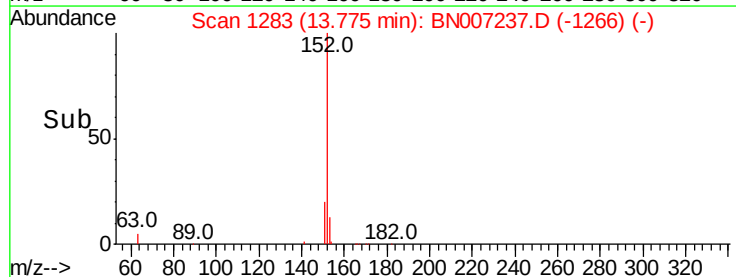
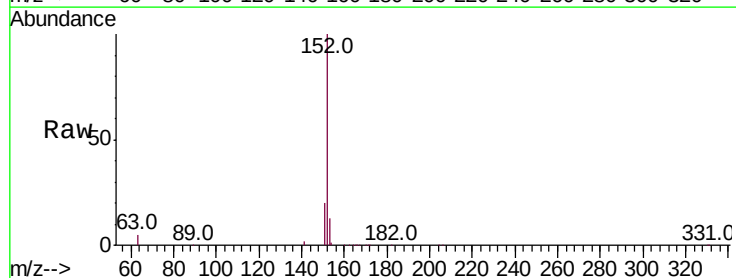
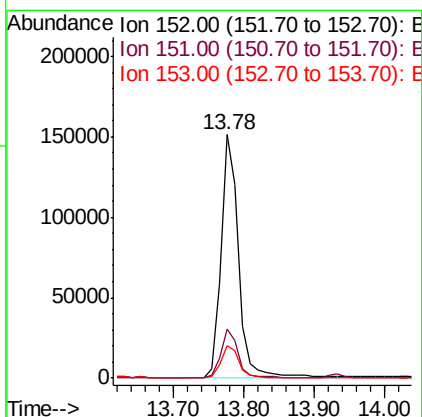
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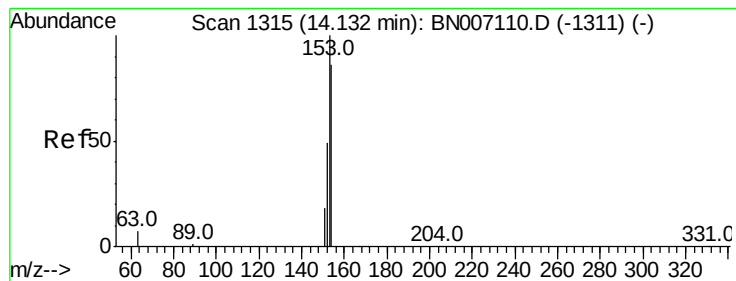
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#15
Acenaphthylene
Concen: 2.938 ng
RT: 13.78 min Scan# 1283
Delta R.T. -0.01 min
Lab File: BN007237.D
Acq: 17 Aug 2019 00:51

Tgt Ion	Ratio	Lower	Upper
152	100		
151	19.7	15.8	23.6
153	13.5	10.4	15.6





#16

Acenaphthene

Concen: 0.190 ng

RT: 14.13 min Scan# 1315

Delta R.T. -0.01 min

Lab File: BN007237.D

Acq: 17 Aug 2019 00:51

Instrument :

BNA_N

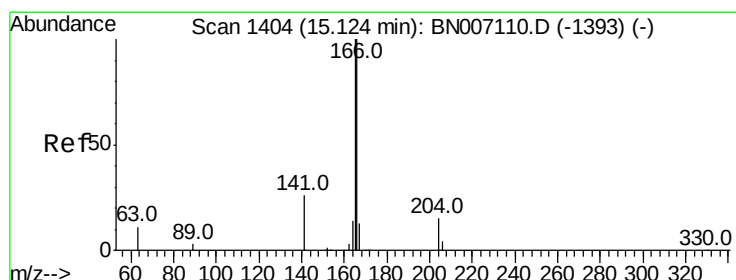
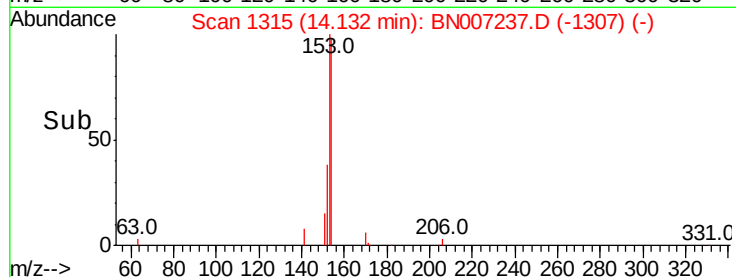
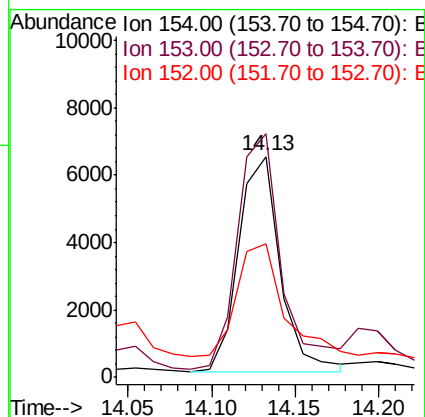
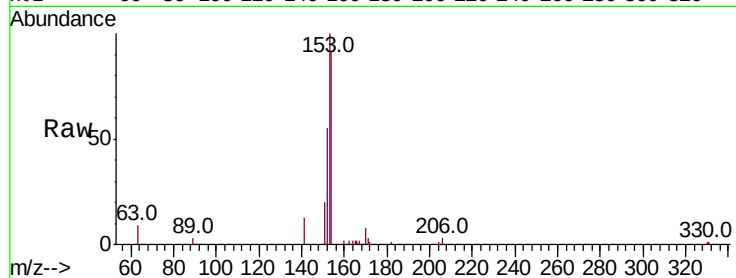
ClientSampleId :

EXT-011-SW151-080819

Tot Ion:	154	Resp:	10992
Ion Ratio	Lower	Upper	
154	100		
153	116.9	89.5	134.3
152	71.2	44.8	67.2#

Manual Integrations
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#17

Fluorene

Concen: 0.389 ng

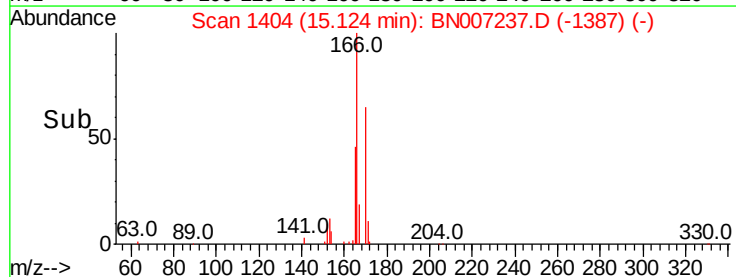
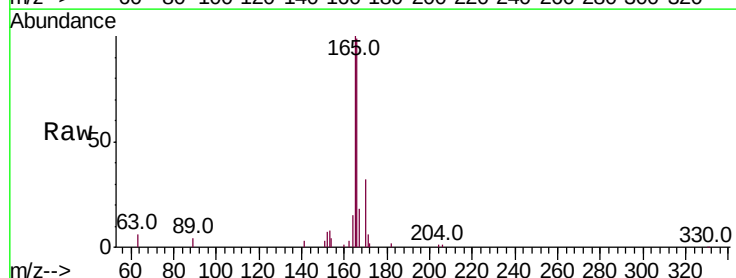
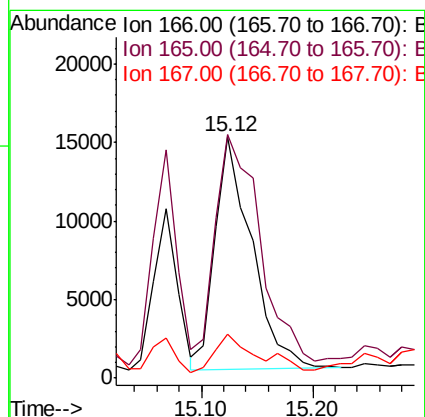
RT: 15.12 min Scan# 1404

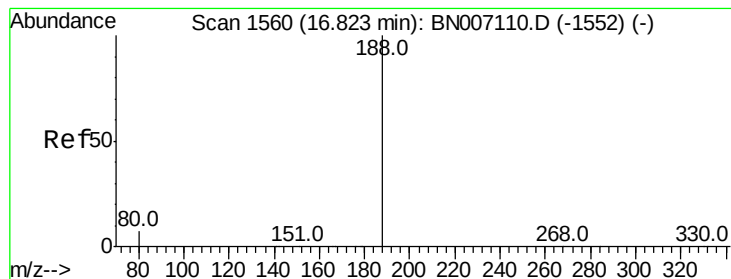
Delta R.T. -0.01 min

Lab File: BN007237.D

Acq: 17 Aug 2019 00:51

Tgt Ion:	166	Resp:	33658
Ion Ratio	Lower	Upper	
166	100		
165	117.3	77.9	116.9#
167	19.1	10.9	16.3#





#18

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.81 min Scan# 1559

Delta R.T. -0.01 min

Lab File: BN007237.D

Acq: 17 Aug 2019 00:51

Instrument :

BNA_N

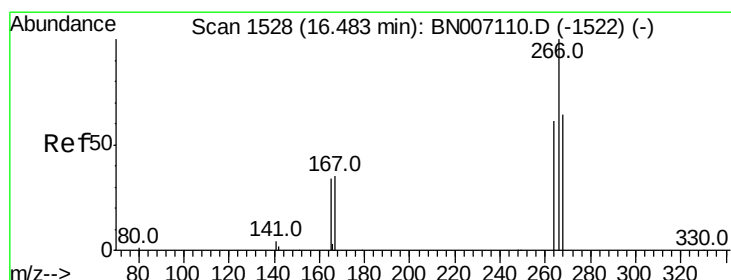
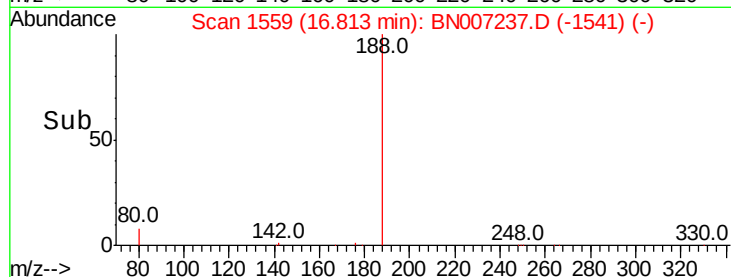
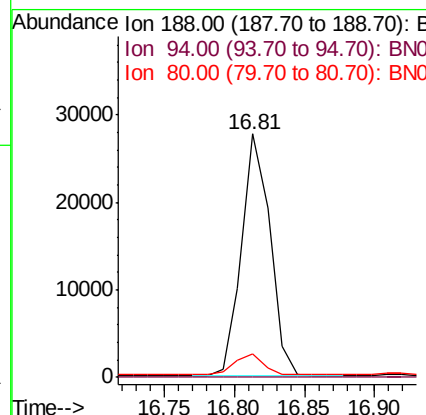
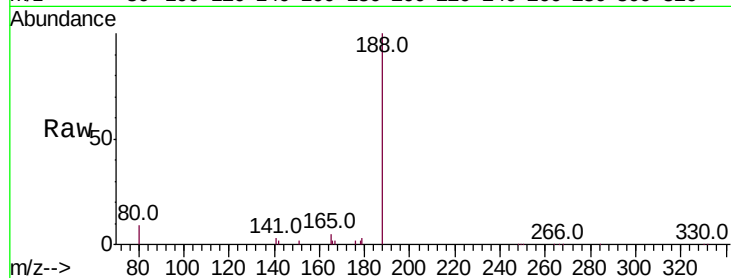
ClientSampleId :

EXT-011-SW151-080819

Tot Ion:	188	Resp:	39328
Ion Ratio	Lower	Upper	
188	100		
94	0.0	0.0	0.0
80	9.4	7.8	11.6

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#21

Pentachlorophenol

Concen: 0.073 ng

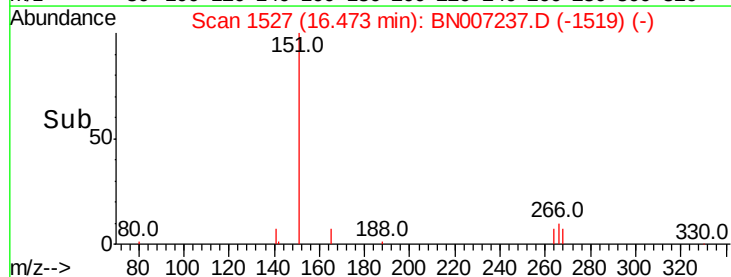
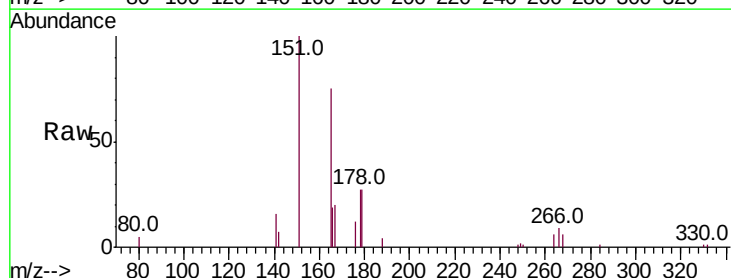
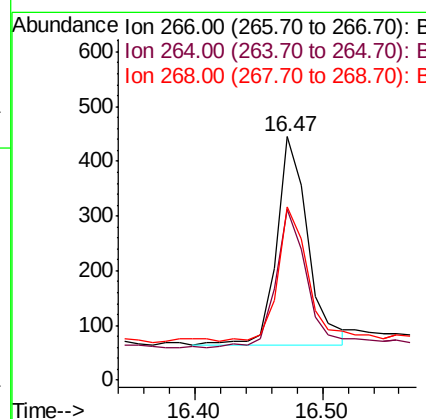
RT: 16.47 min Scan# 1527

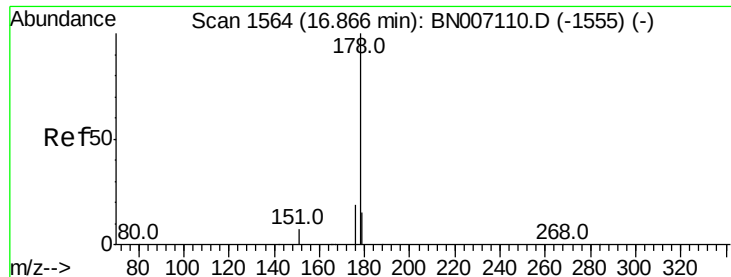
Delta R.T. -0.01 min

Lab File: BN007237.D

Acq: 17 Aug 2019 00:51

Tgt Ion:	266	Resp:	640
Ion Ratio	Lower	Upper	
266	100		
264	69.9	52.3	78.5
268	71.0	51.5	77.3





#22

Phenanthrene

Concen: 4.970 ng

RT: 16.86 min Scan# 1563

Delta R.T. -0.01 min

Lab File: BN007237.D

Acq: 17 Aug 2019 00:51

Instrument :

BNA_N

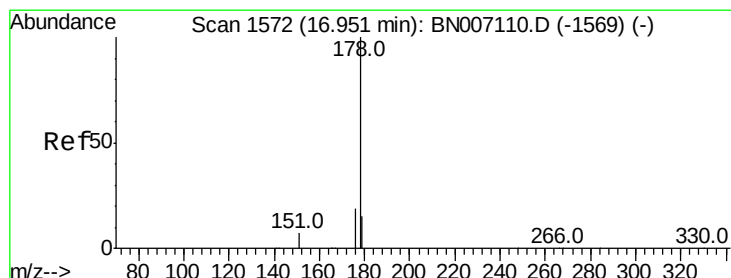
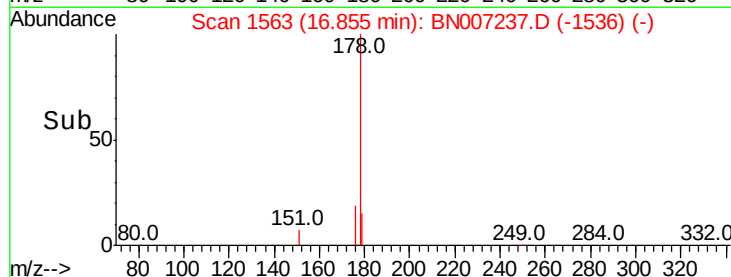
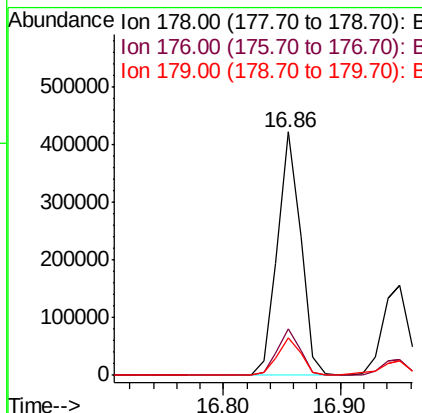
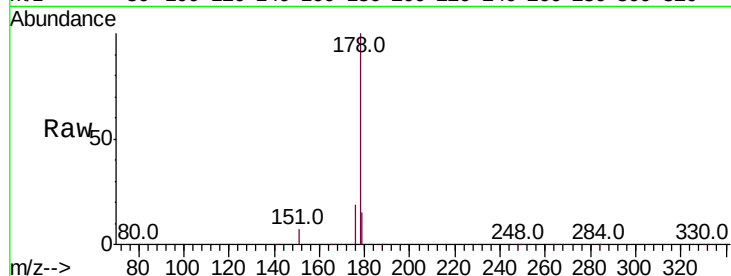
ClientSampleId :

EXT-011-SW151-080819

Tot Ion:178	Resp:	585812
Ion Ratio	Lower	Upper
178	100	
176	19.1	15.2 22.8
179	15.7	12.3 18.5

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#23

Anthracene

Concen: 2.239 ng

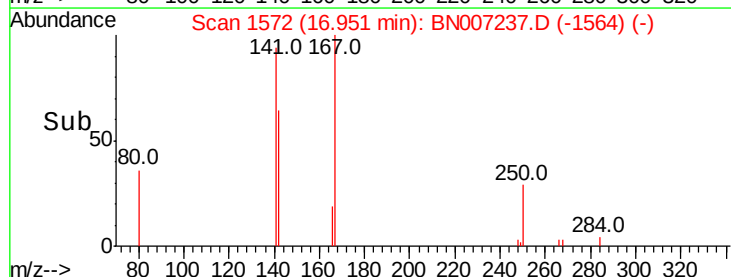
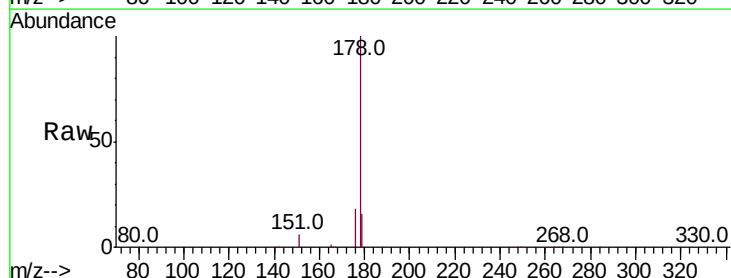
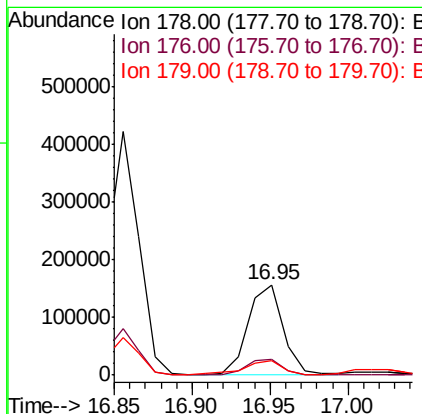
RT: 16.95 min Scan# 1572

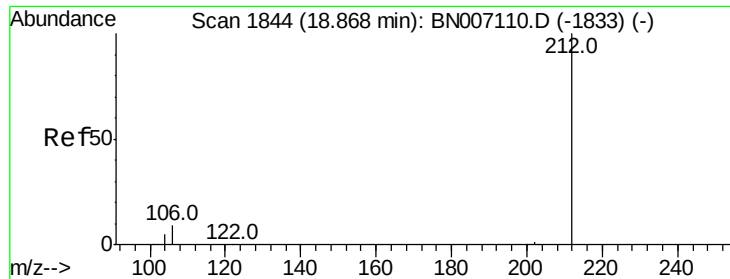
Delta R.T. -0.01 min

Lab File: BN007237.D

Acq: 17 Aug 2019 00:51

Tgt Ion:178	Resp:	241059
Ion Ratio	Lower	Upper
178	100	
176	18.2	14.6 21.8
179	16.2	12.5 18.7





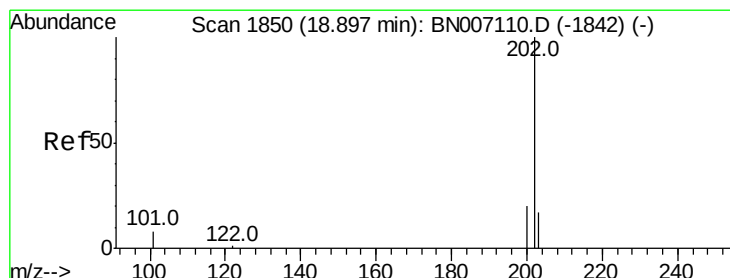
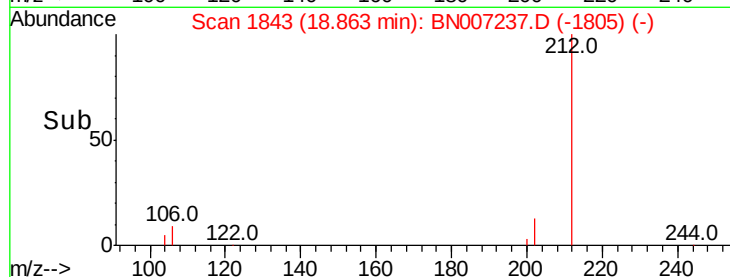
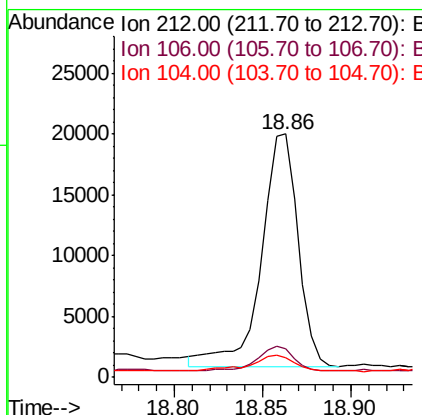
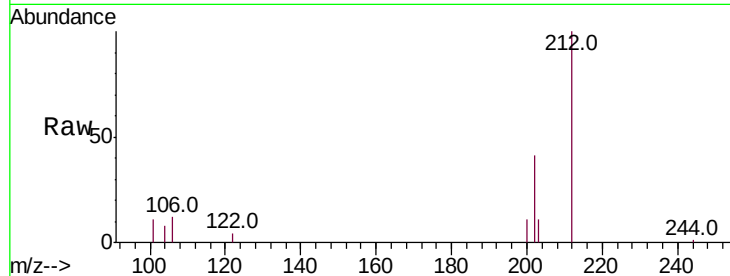
#24
 Fluoranthene-d10
 Concen: 0.199 ng
 RT: 18.86 min Scan# 1843
 Delta R.T. -0.01 min
 Lab File: BN007237.D
 Acq: 17 Aug 2019 00:51

Instrument :
 BNA_N
 ClientSampleId :
 EXT-011-SW151-080819

Tot Ion	Ratio	Lower	Upper
212	100		
106	10.3	8.2	12.2
104	8.4	4.5	6.7

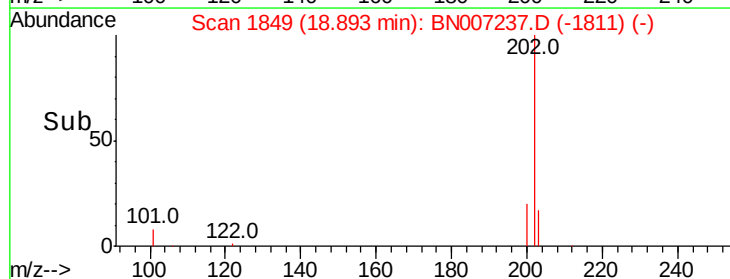
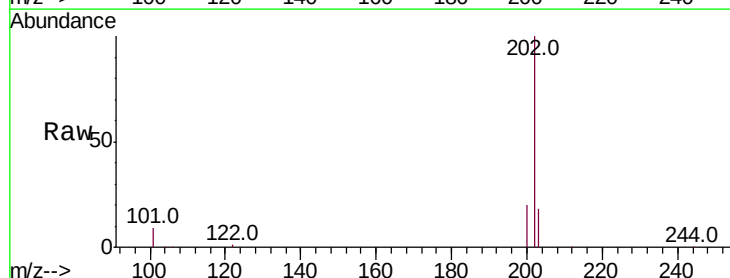
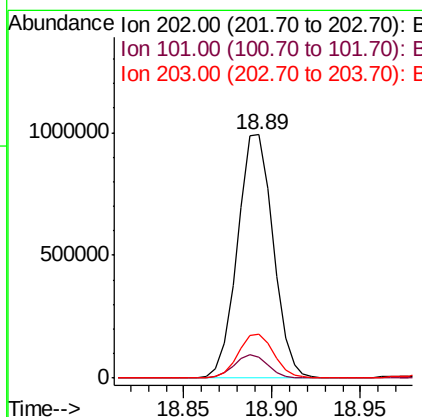
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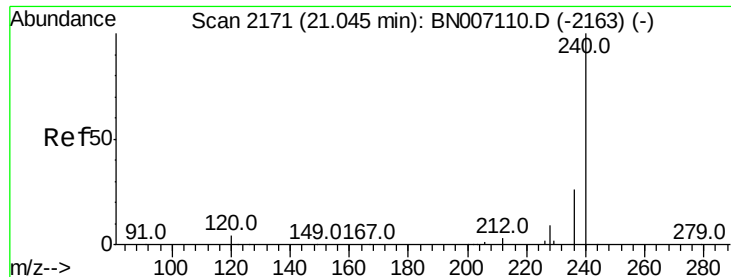
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#25
 Fluoranthene
 Concen: 9.202 ng
 RT: 18.89 min Scan# 1849
 Delta R.T. -0.01 min
 Lab File: BN007237.D
 Acq: 17 Aug 2019 00:51

Tgt Ion	Ratio	Lower	Upper
202	100		
101	9.0	7.0	10.4
203	17.8	13.8	20.8





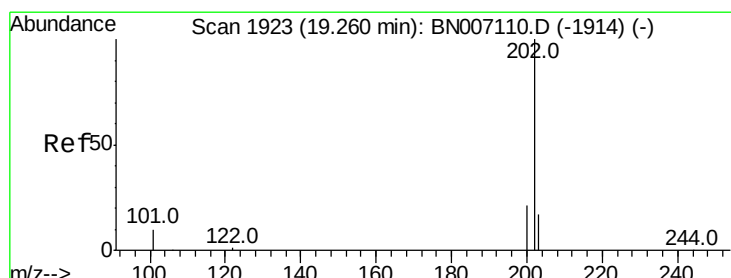
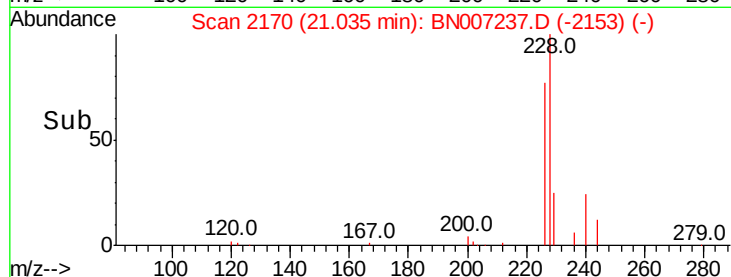
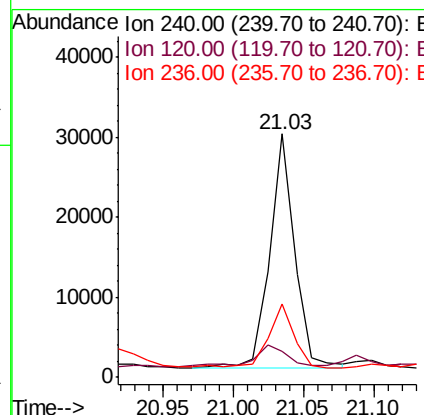
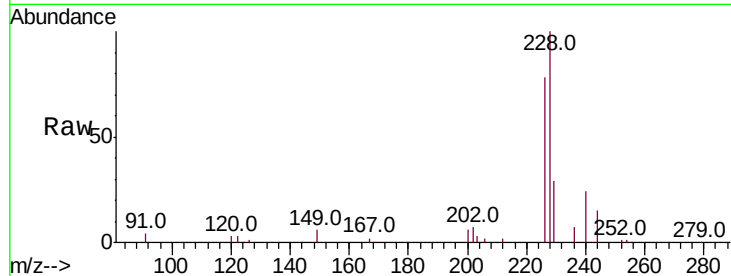
#26
 Chrysene-d12
 Concen: 0.400 ng
 RT: 21.03 min Scan# 2170
 Delta R.T. -0.02 min
 Lab File: BN007237.D
 Acq: 17 Aug 2019 00:51

Instrument :
 BNA_N
 ClientSampleId :
 EXT-011-SW151-080819

Tot Ion	Ratio	Lower	Upper
240	100		
120	10.7	4.0	6.0#
236	30.0	21.3	31.9

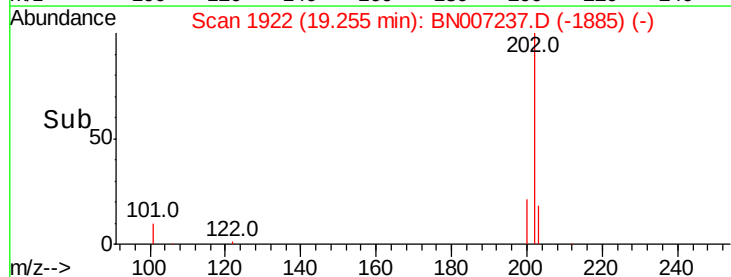
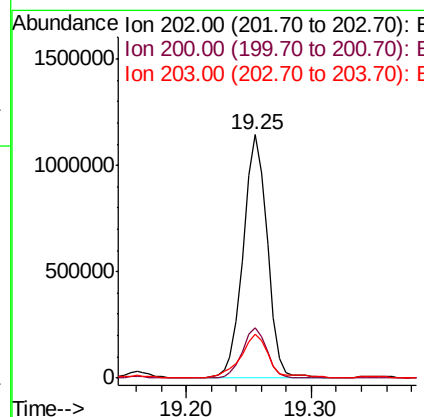
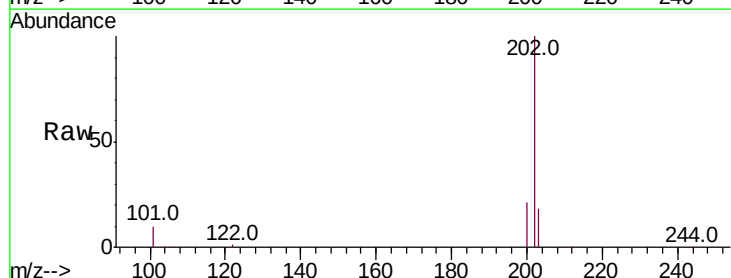
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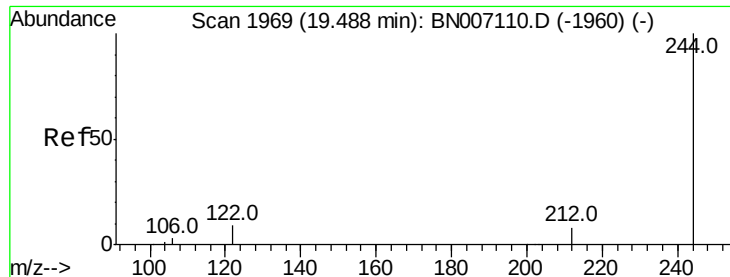
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#27
 Pyrene
 Concen: 11.768 ng
 RT: 19.25 min Scan# 1922
 Delta R.T. -0.01 min
 Lab File: BN007237.D
 Acq: 17 Aug 2019 00:51

Tgt Ion	Ratio	Lower	Upper
202	100		
200	20.9	16.6	24.8
203	20.0	14.0	21.0





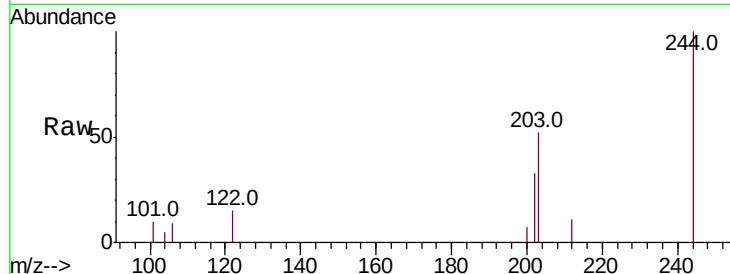
#28
 Terphenyl-d14
 Concen: 0.196 ng
 RT: 19.48 min Scan# 1967
 Delta R.T. -0.02 min
 Lab File: BN007237.D
 Acq: 17 Aug 2019 00:51

Instrument :
 BNA_N
 ClientSampleId :
 EXT-011-SW151-080819

Tot Ion	Ratio	Lower	Upper
244	100		
212	11.3	6.2	9.2#
122	15.2	7.4	11.2#

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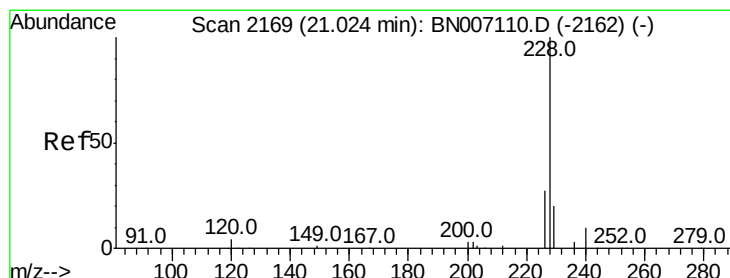
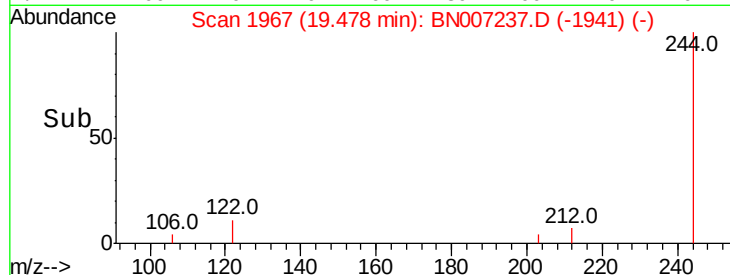
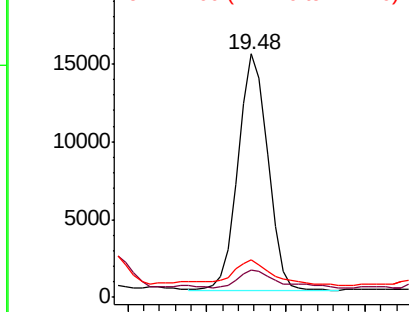


Abundance

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



#29
 Benzo(a)anthracene
 Concen: 5.823 ng m
 RT: 21.01 min Scan# 2168
 Delta R.T. -0.02 min
 Lab File: BN007237.D
 Acq: 17 Aug 2019 00:51

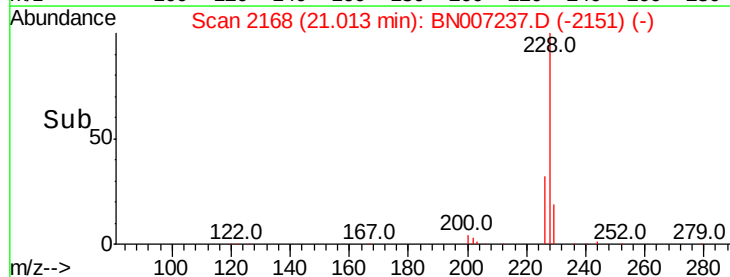
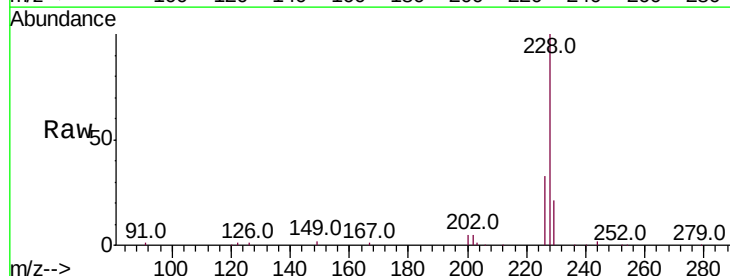
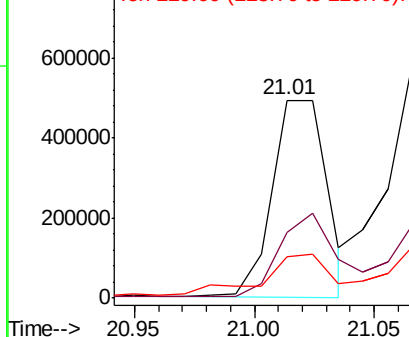
Tgt Ion	Ratio	Lower	Upper
228	100		
226	33.2	21.8	32.6#
229	21.1	15.6	23.4

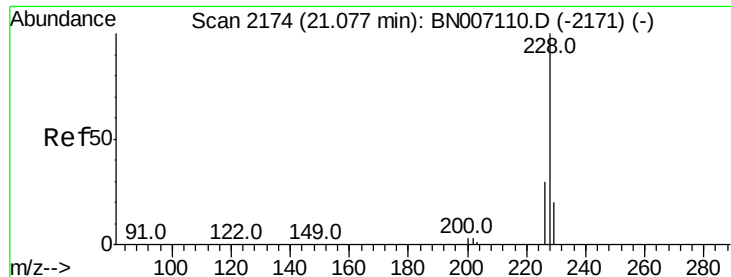
Abundance

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





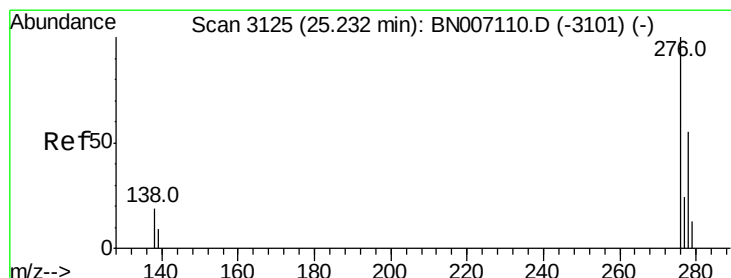
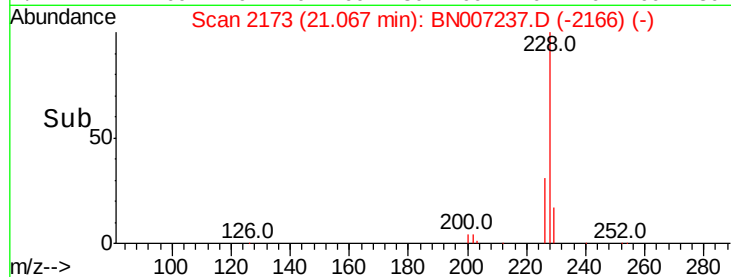
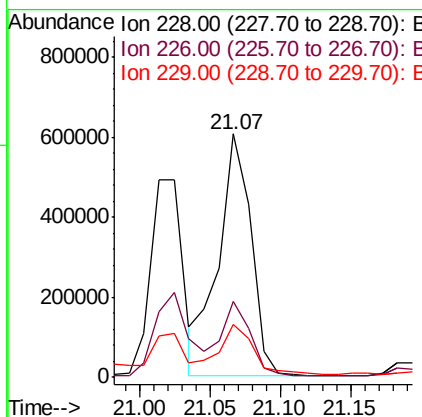
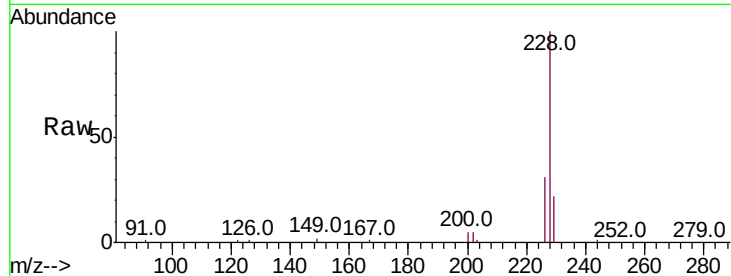
#30
 Chrysene
 Concen: 7.509 ng
 RT: 21.07 min Scan# 2173
 Delta R.T. -0.02 min
 Lab File: BN007237.D
 Acq: 17 Aug 2019 00:51

Instrument :
 BNA_N
 ClientSampleId :
 EXT-011-SW151-080819

Tot Ion:228	Resp:	979842
Ion Ratio	Lower	Upper
228 100		
226 30.9	23.8	35.6
229 21.8	15.7	23.5

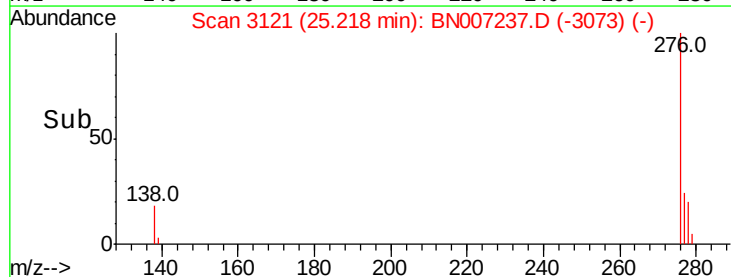
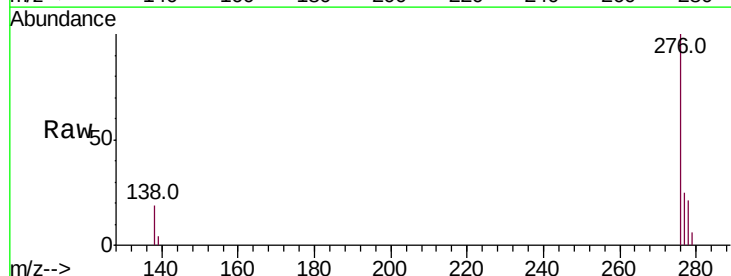
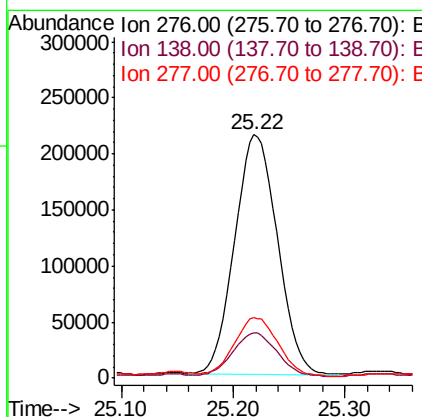
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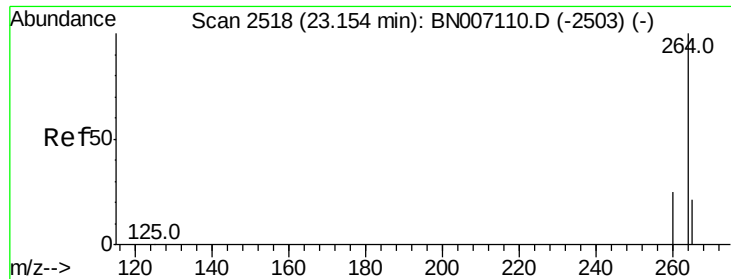
mohammad
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#31
 Indeno(1,2,3-cd)pyrene
 Concen: 3.944 ng
 RT: 25.22 min Scan# 3121
 Delta R.T. -0.03 min
 Lab File: BN007237.D
 Acq: 17 Aug 2019 00:51

Tgt Ion:276	Resp:	567135
Ion Ratio	Lower	Upper
276 100		
138 18.5	16.0	24.0
277 24.8	19.9	29.9





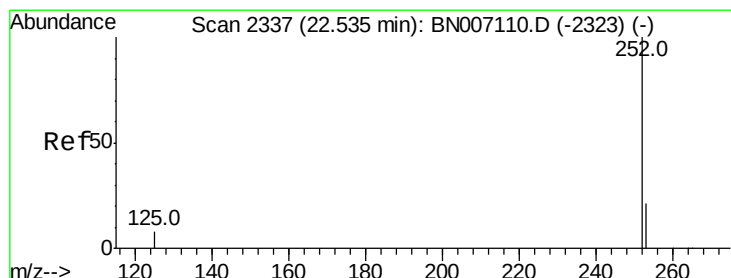
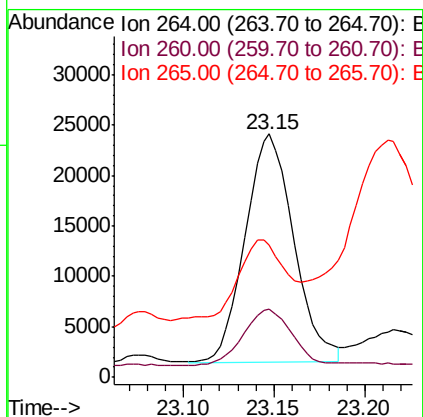
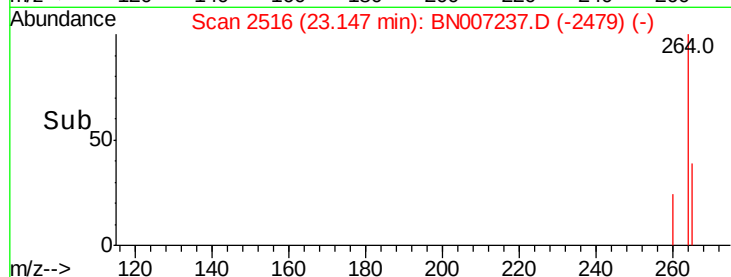
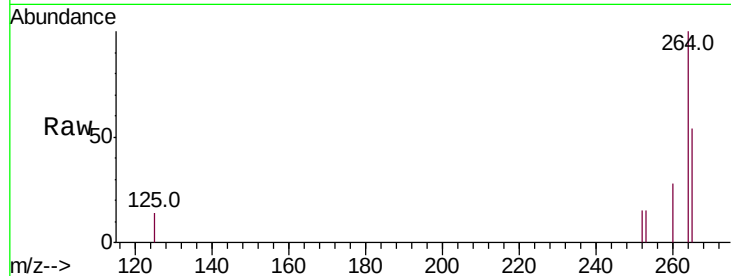
#32
 Pervlene-d12
 Concen: 0.400 ng
 RT: 23.15 min Scan# 2516
 Delta R.T. -0.02 min
 Lab File: BN007237.D
 Acq: 17 Aug 2019 00:51

Instrument :
 BNA_N
 ClientSampleId :
 EXT-011-SW151-080819

Tot Ion	Ratio	Lower	Upper
264	100		
260	27.9	19.8	29.8
265	54.1	26.2	39.4

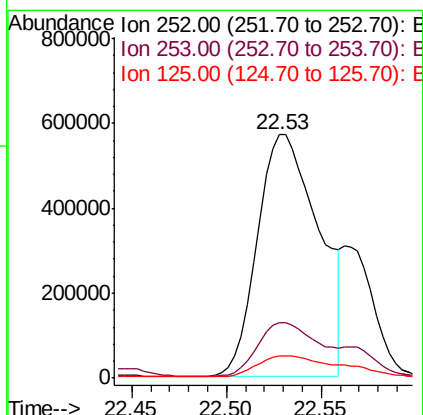
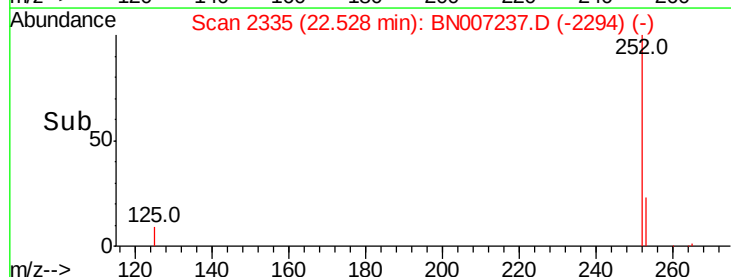
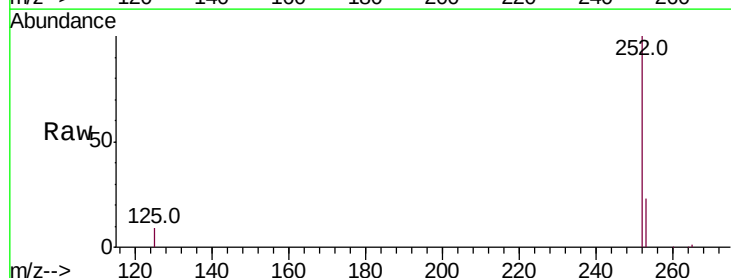
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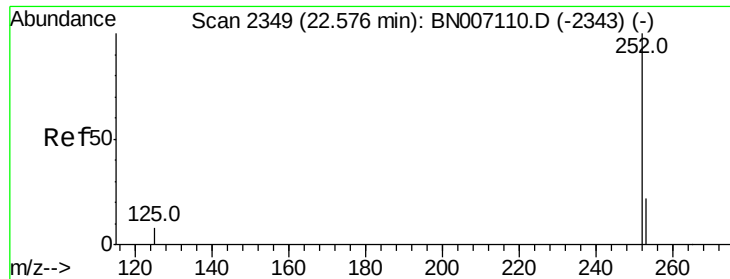
mohammad
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#33
 Benzo(b)fluoranthene
 Concen: 8.897 ng
 RT: 22.53 min Scan# 2335
 Delta R.T. -0.02 min
 Lab File: BN007237.D
 Acq: 17 Aug 2019 00:51

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.7	18.2	27.2
125	9.0	7.4	11.0





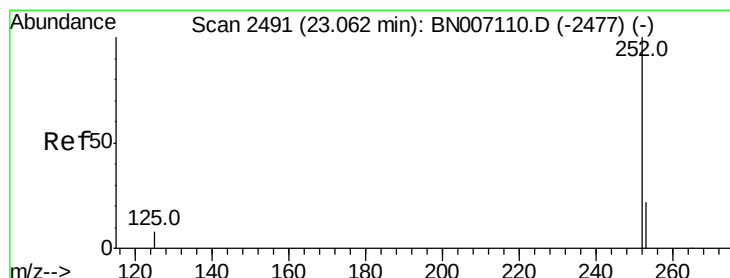
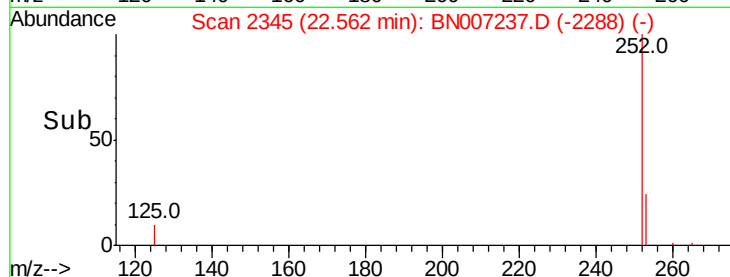
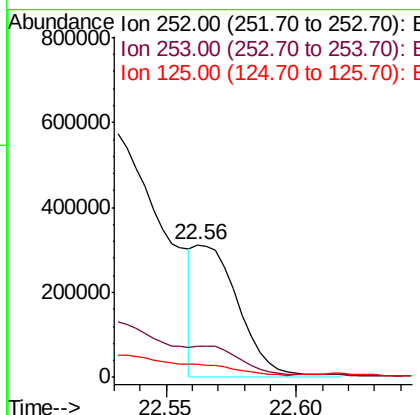
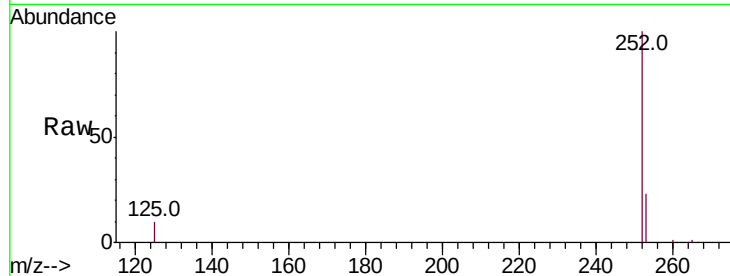
#34
Benzo(k)fluoranthene
Concen: 2.546 ng m
RT: 22.56 min Scan# 2345
Delta R.T. -0.03 min
Lab File: BN007237.D
Acq: 17 Aug 2019 00:51

Instrument :
BNA_N
ClientSampleId :
EXT-011-SW151-080819

Tot Ion	Ratio	Resp	Lower	Upper
252	100	363776		
253	23.5	18.1	27.1	
125	9.6	7.4	11.0	

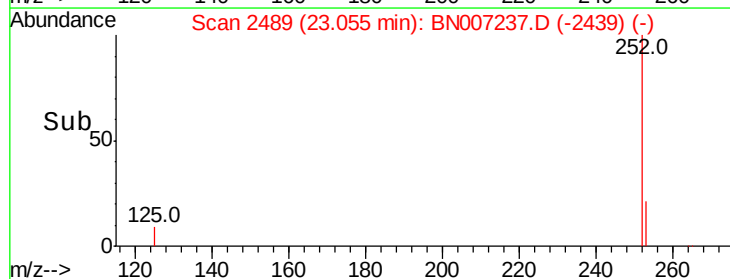
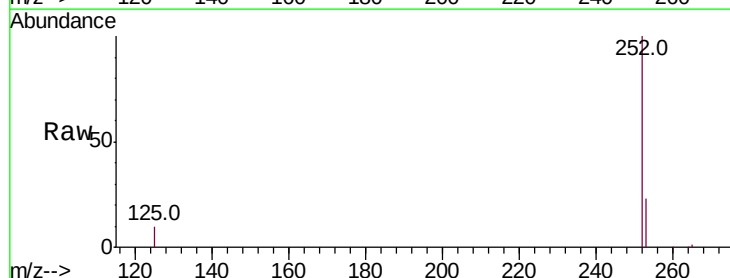
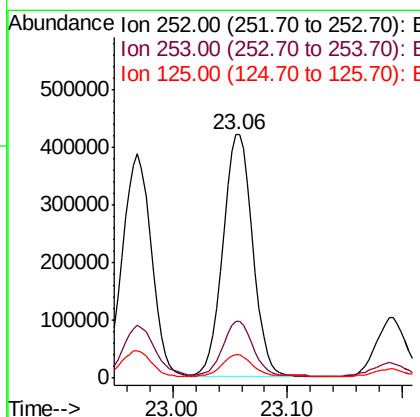
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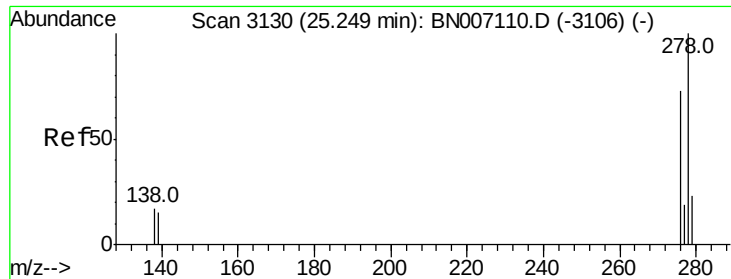
mohammad
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#35
Benzo(a)pyrene
Concen: 5.802 ng
RT: 23.06 min Scan# 2489
Delta R.T. -0.03 min
Lab File: BN007237.D
Acq: 17 Aug 2019 00:51

Tgt Ion	Ratio	Resp	Lower	Upper
252	100	760881		
253	23.1	18.5	27.7	
125	9.6	8.2	12.4	





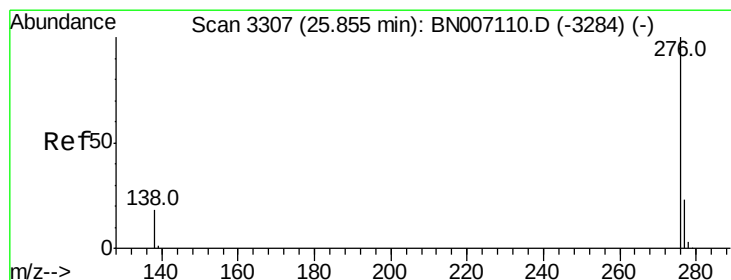
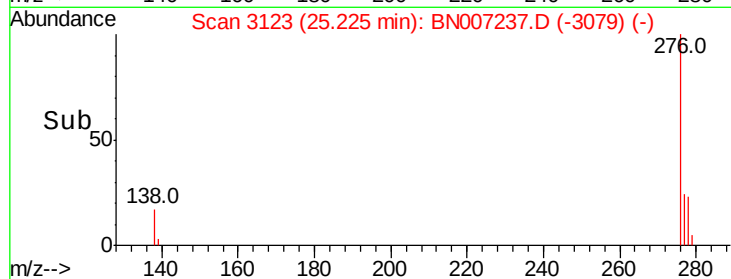
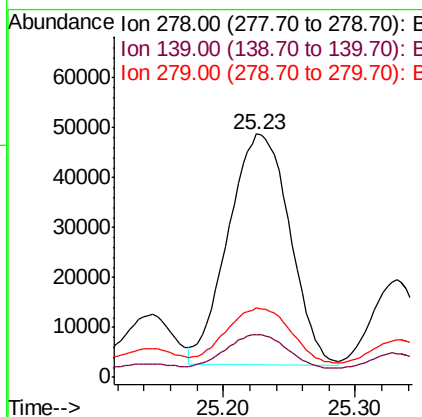
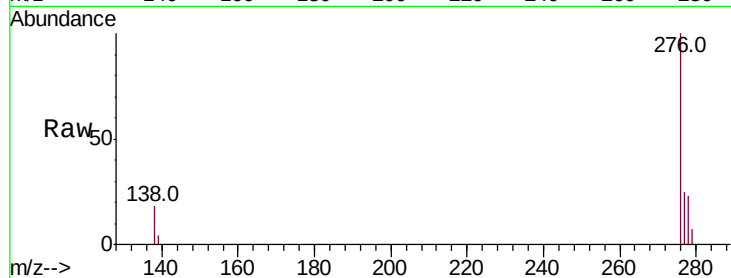
#36
Dibenzo(a,h)anthracene
Concen: 1.147 ng
RT: 25.23 min Scan# 3123
Delta R.T. -0.05 min
Lab File: BN007237.D
Acq: 17 Aug 2019 00:51

Instrument :
BNA_N
ClientSampleId :
EXT-011-SW151-080819

Tot Ion	Ratio	Lower	Upper
278	100		
139	17.7	11.3	16.9#
279	28.5	19.3	28.9

Manual Integrations
APPROVED

mohammad
8/20/2019 8:43:53 AM



#37
Benzo(g,h,i)perylene
Concen: 4.281 ng
RT: 25.85 min Scan# 3306
Delta R.T. -0.03 min
Lab File: BN007237.D
Acq: 17 Aug 2019 00:51

Tgt Ion	Ratio	Lower	Upper
276	100		
277	24.2	19.8	29.8
138	18.5	14.6	22.0

