

Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN081219\
 Data File : BN007111.D
 Acq On : 13 Aug 2019 02:42
 Operator : HP/JU
 Sample : K4143-19
 Misc :
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 EXT-008-SW118-073119

Manual Integrations
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mohammad
 8/14/2019 2:52:13 AM

Quant Time: Aug 13 06:42:48 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA N\METHODS\8270-SIM-BN081019.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Sat Aug 10 21:44:50 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.43	152	9864	0.40	ng	0.00
6) Naphthalene-d8	10.19	136	38387	0.40	ng	0.00
12) Acenaphthene-d10	14.08	164	22625	0.40	ng	0.00
18) Phenanthrene-d10	16.82	188	53519	0.40	ng	0.00
26) Chrysene-d12	21.05	240	52331	0.40	ng	-0.01
32) Perylene-d12	23.15	264	57268	0.40	ng	-0.02

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
3) 2-Fluorophenol	5.06	112	5560	0.23	ng	0.00
4) Phenol-d6	6.61	99	7671	0.26	ng	0.00
7) Nitrobenzene-d5	8.56	82	5951	0.19	ng	0.00
10) 2-Methylnaphthalene-d10	11.79	152	14032	0.20	ng	0.00
13) 2,4,6-Tribromophenol	15.57	330	2197	0.18	ng	0.00
14) 2-Fluorobiphenyl	12.71	172	3411	0.10	ng	0.00
24) Fluoranthene-d10	18.87	212	35857	0.19	ng	0.00
28) Terphenyl-d14	19.49	244	27191	0.19	ng	-0.01

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) bis(2-Chloroethyl)ether	6.89	93	3008	0.116	ng	# 30
8) Naphthalene	10.24	128	4311	0.040	ng	# 89
11) 2-Methylnaphthalene	11.87	142	2845	0.037	ng	# 92
15) Acenaphthylene	13.79	152	32940	0.279	ng	100
16) Acenaphthene	14.13	154	5788	0.076	ng	96
17) Fluorene	15.14	166	10281	0.091	ng	91
22) Phenanthrene	16.87	178	252944	1.577	ng	100
23) Anthracene	16.95	178	65123	0.444	ng	98
25) Fluoranthene	18.90	202	565898	2.758	ng	100
27) Pvrene	19.26	202	488077	2.660	ng	# 95
29) Benzo(a)anthracene	21.02	228	295082	1.542	ng	95
30) Chrysene	21.08	228	302229	1.625	ng	97
31) Indeno(1,2,3-cd)pyrene	25.23	276	197368	0.963	ng	98
33) Benzo(b)fluoranthene	22.53	252	406468	2.070	ng	99
34) Benzo(k)fluoranthene	22.57	252	129592m	0.668	ng	
35) Benzo(a)pyrene	23.06	252	264768	1.487	ng	100
36) Dibenzo(a,h)anthracene	25.24	278	51673	0.291	ng	# 85
37) Benzo(a,h,i)perylene	25.85	276	202948	1.111	ng	99

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

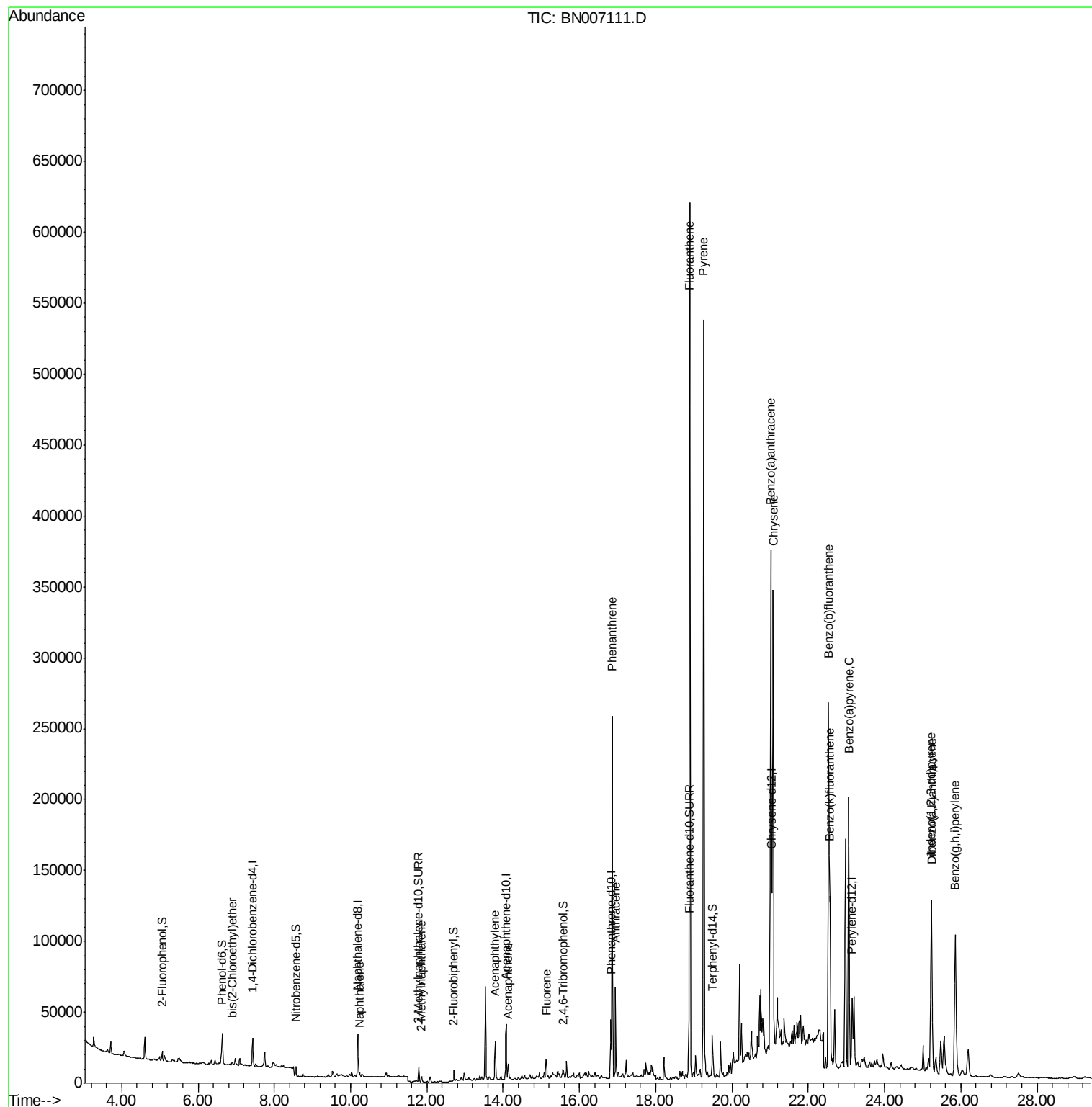
Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN081219\
Data File : BN007111.D
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#1

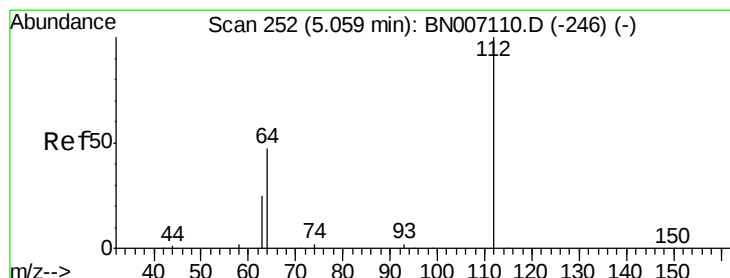
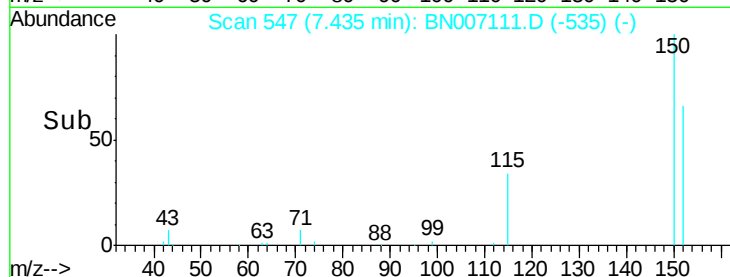
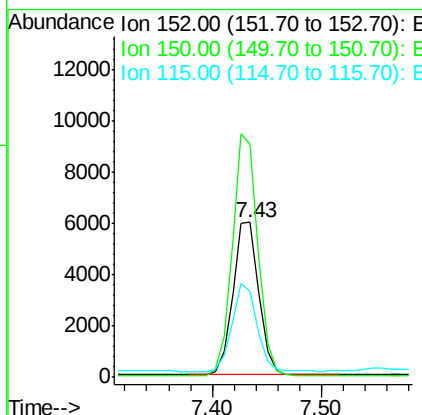
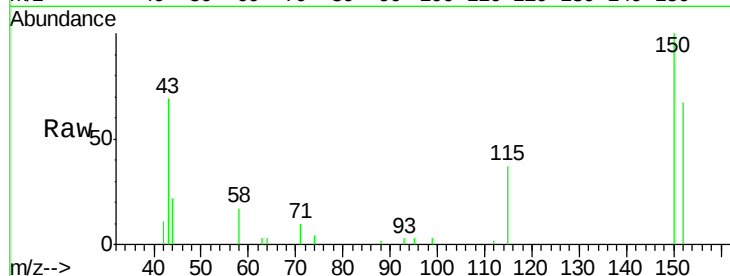
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.43 min Scan# 547
Delta R.T. -0.00 min
Lab File: BN007111.D
Acq: 13 Aug 2019 02:42

Instrument :
BNA_N
ClientSampleId :
EXT-008-SW118-073119

Tot Ion	Ratio	Lower	Upper
152	100		
150	150.3	121.7	182.5
115	55.6	46.2	69.4

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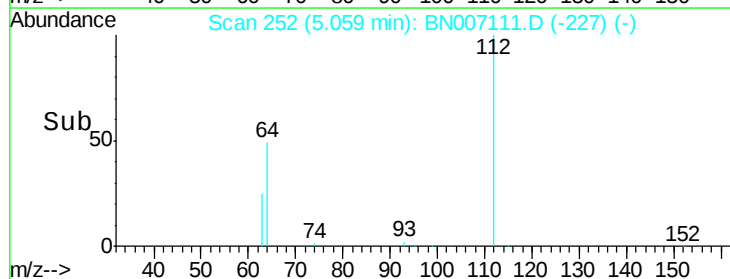
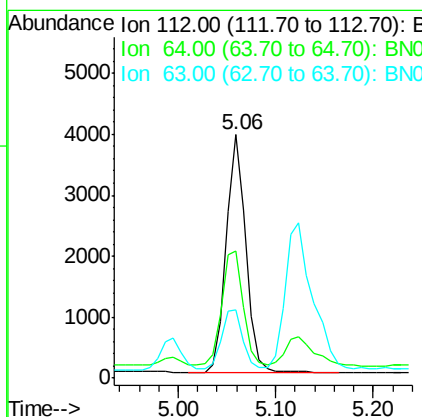
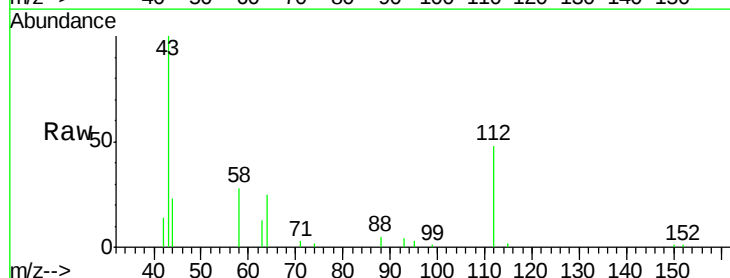
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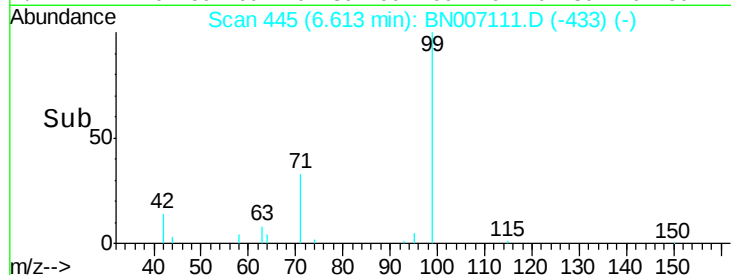
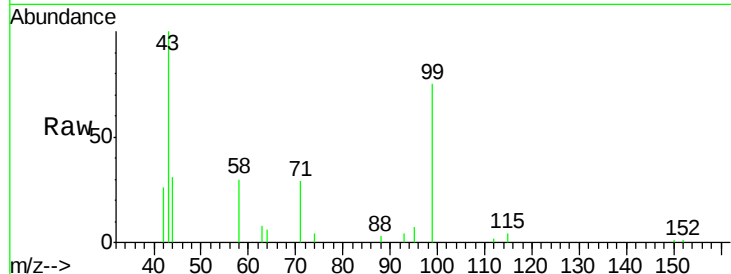
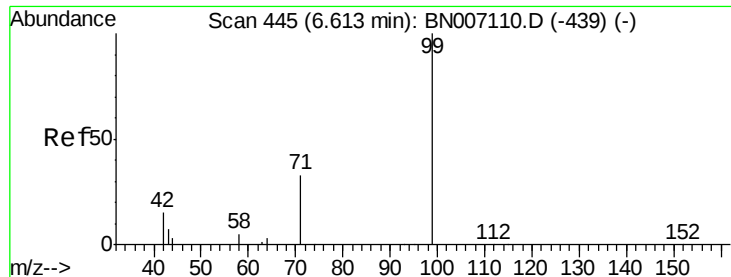


#3

2-Fluorophenol
Concen: 0.235 ng
RT: 5.06 min Scan# 252
Delta R.T. -0.00 min
Lab File: BN007111.D
Acq: 13 Aug 2019 02:42

Tgt Ion	Ratio	Lower	Upper
112	100		
64	52.2	42.6	63.8
63	27.3	22.2	33.2





#4

Phenol-d6

Concen: 0.261 ng

RT: 6.61 min Scan# 445

Delta R.T. -0.00 min

Lab File: BN007111.D

Acq: 13 Aug 2019 02:42

Tot Ion:	99	Resp:	7671
Ion Ratio	Lower	Upper	
99	100		
42	0.0	15.8	23.6#
71	38.5	27.0	40.4

Instrument :

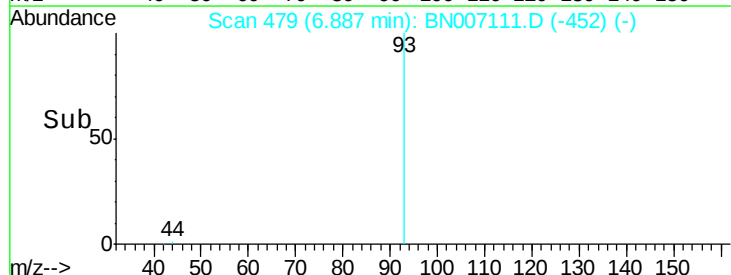
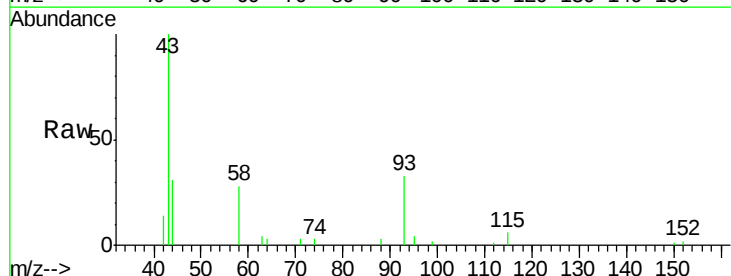
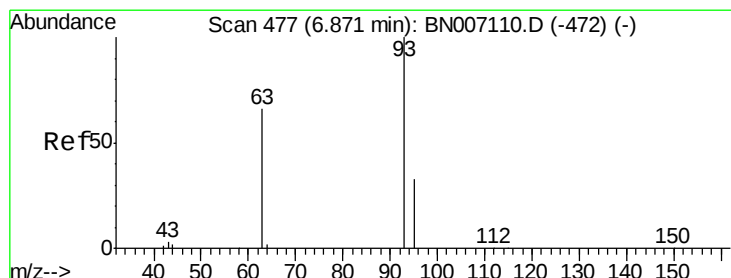
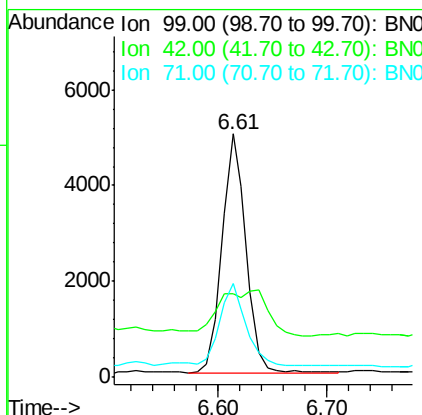
BNA_N

ClientSampleId :

EXT-008-SW118-073119

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#5

bis(2-Chloroethyl)ether

Concen: 0.116 ng

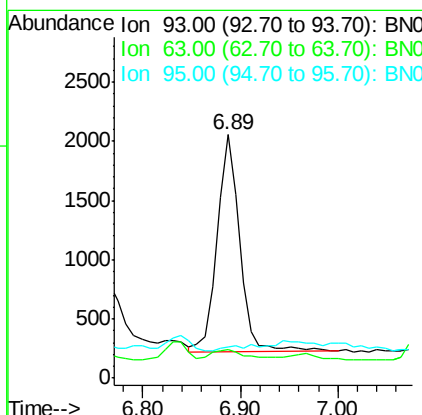
RT: 6.89 min Scan# 479

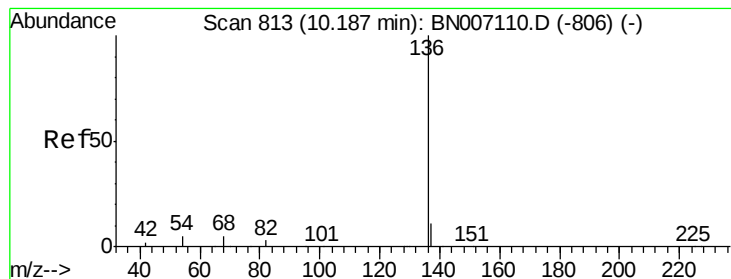
Delta R.T. 0.02 min

Lab File: BN007111.D

Acq: 13 Aug 2019 02:42

Tgt Ion:	93	Resp:	3008
Ion Ratio	Lower	Upper	
93	100		
63	6.7	55.6	83.4#
95	2.2	26.7	40.1#





#6

Naphthalene-d8

Concen: 0.400 ng

RT: 10.19 min Scan# 813

Delta R.T. -0.00 min

Lab File: BN007111.D

Acq: 13 Aug 2019 02:42

Instrument :

BNA_N

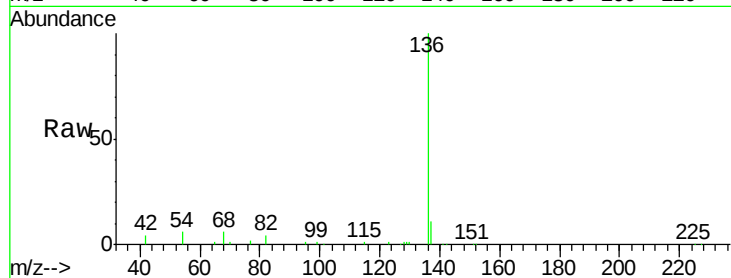
ClientSampleId :

EXT-008-SW118-073119

Tot Ion	Ratio	Resp Lower	Upper
136	100		
137	11.2	9.4	14.0
54	5.9	6.6	9.8#
68	5.6	6.0	9.0#

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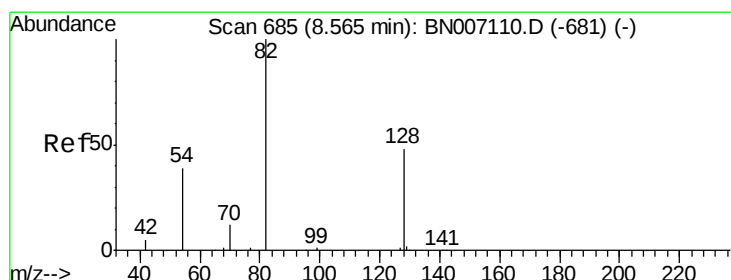
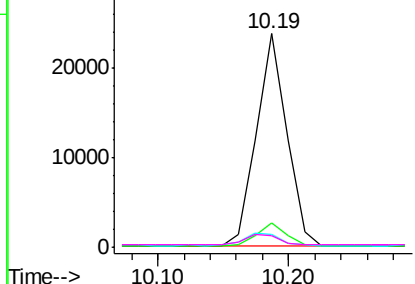
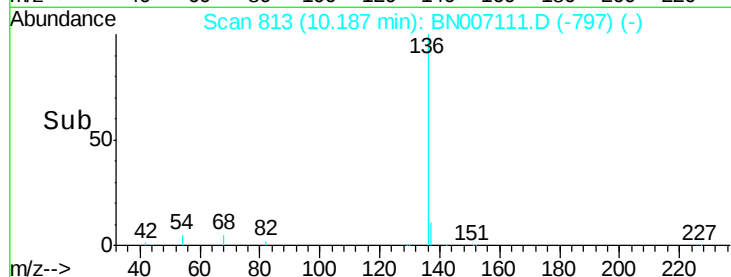


Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BNC

Ion 68.00 (67.70 to 68.70): BNC



#7

Nitrobenzene-d5

Concen: 0.192 ng

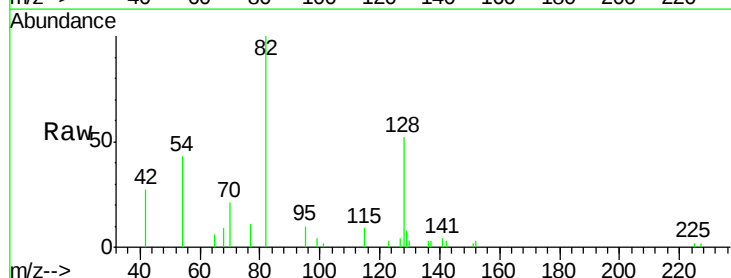
RT: 8.56 min Scan# 685

Delta R.T. -0.00 min

Lab File: BN007111.D

Acq: 13 Aug 2019 02:42

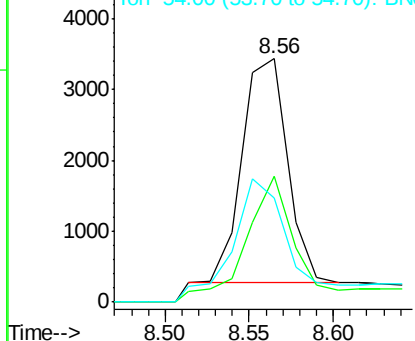
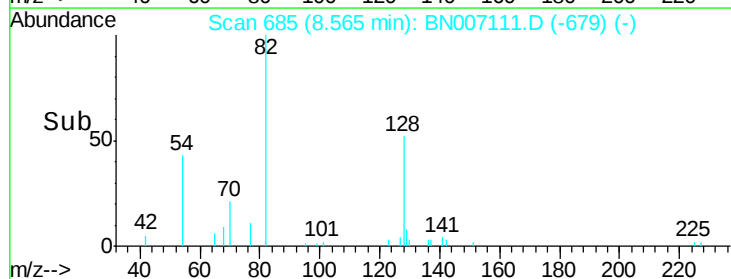
Tgt Ion	Ratio	Resp Lower	Upper
82	100		
128	51.7	34.6	51.8
54	42.5	36.2	54.4

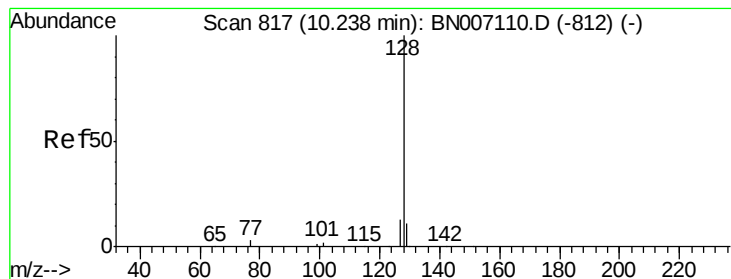


Abundance Ion 82.00 (81.70 to 82.70): BNC

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BNC





#8

Naphthalene

Concen: 0.040 ng

RT: 10.24 min Scan# 817

Delta R.T. -0.00 min

Lab File: BN007111.D

Acq: 13 Aug 2019 02:42

Instrument :

BNA_N

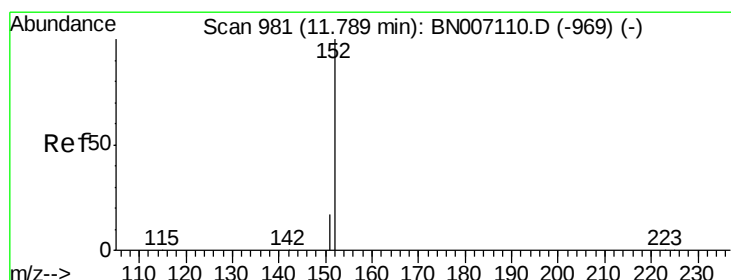
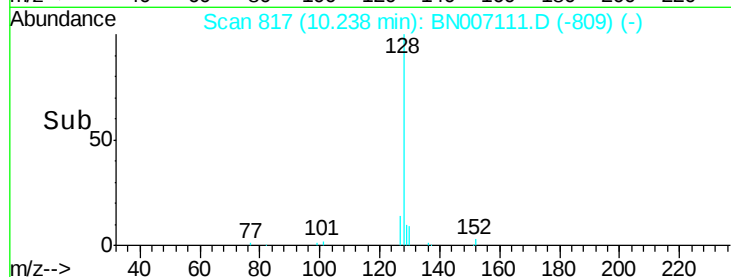
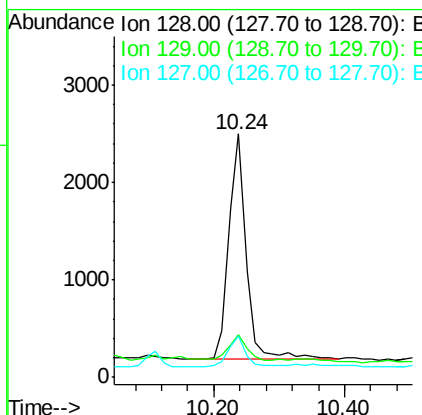
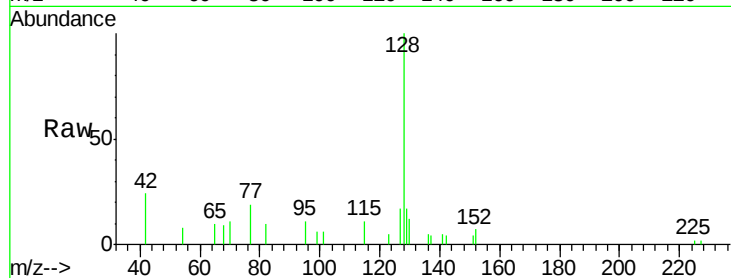
ClientSampleId :

EXT-008-SW118-073119

Tot Ion:	128	Resp:	4311
Ion Ratio	Lower	Upper	
128	100		
129	17.5	9.4	14.2#
127	16.8	11.0	16.6#

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#10

2-Methylnaphthalene-d10

Concen: 0.196 ng

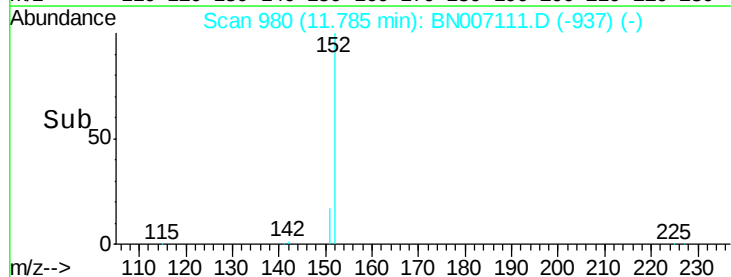
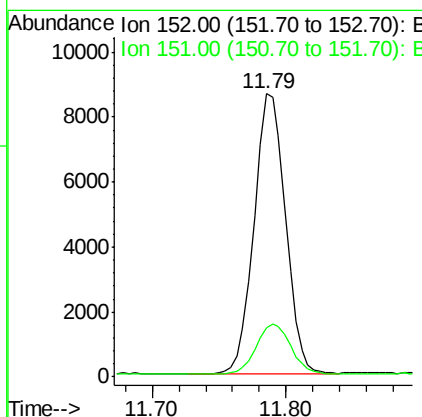
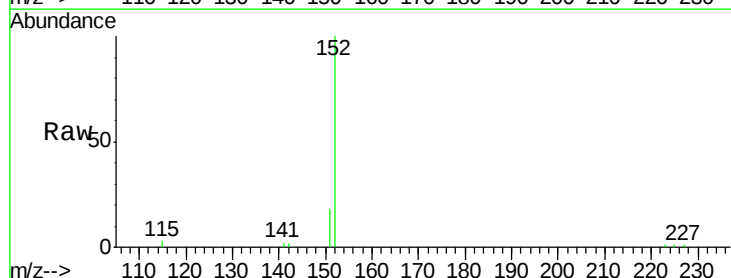
RT: 11.79 min Scan# 980

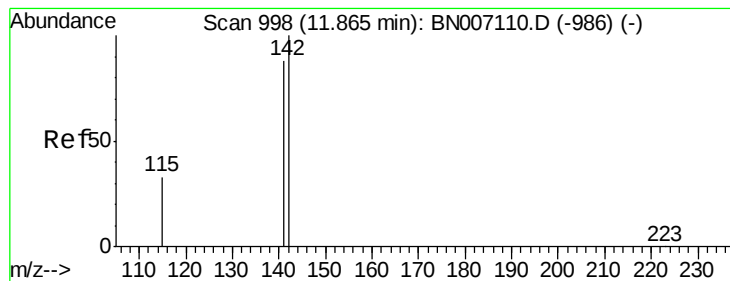
Delta R.T. -0.01 min

Lab File: BN007111.D

Acq: 13 Aug 2019 02:42

Tgt Ion:	152	Resp:	14032
Ion Ratio	Lower	Upper	
152	100		
151	19.6	15.5	23.3





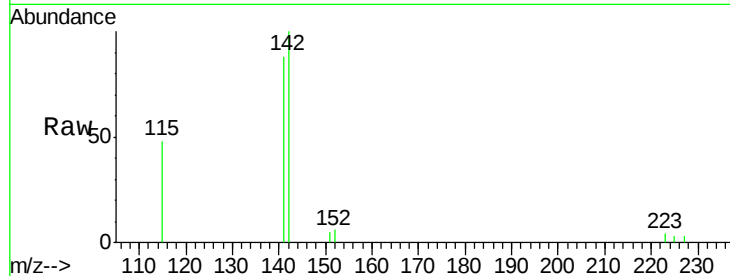
#11
2-Methylnaphthalene
Concen: 0.037 ng
RT: 11.87 min Scan# 998
Delta R.T. -0.00 min
Lab File: BN007111.D
Acq: 13 Aug 2019 02:42

Instrument :
BNA_N
ClientSampleId :
EXT-008-SW118-073119

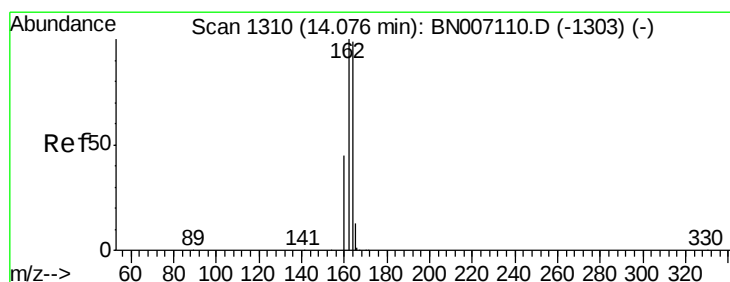
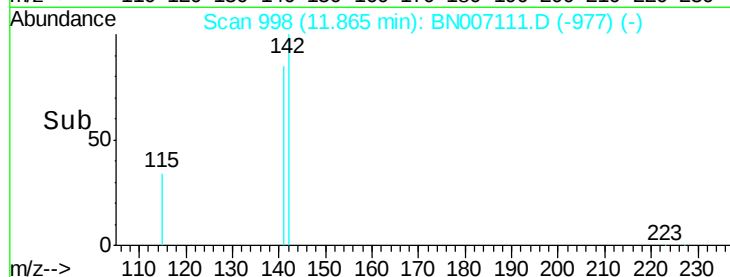
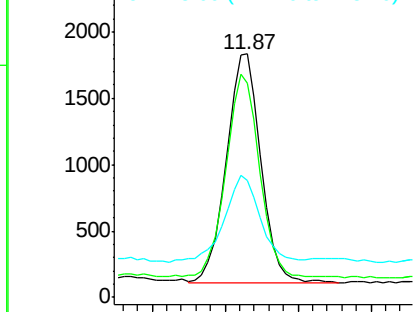
Tot Ion	Ratio	Lower	Upper
142	100		
141	88.2	69.0	103.6
115	47.8	27.1	40.7

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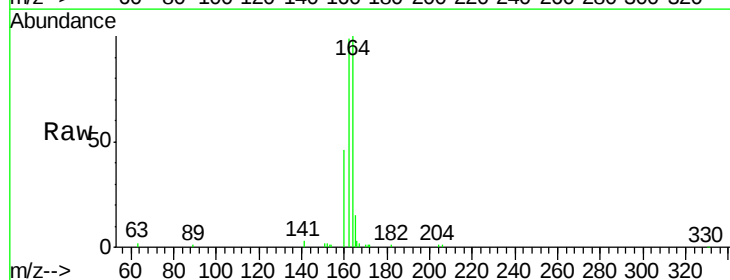


Abundance Ion 142.00 (141.70 to 142.70): E
Ion 141.00 (140.70 to 141.70): E
Ion 115.00 (114.70 to 115.70): E

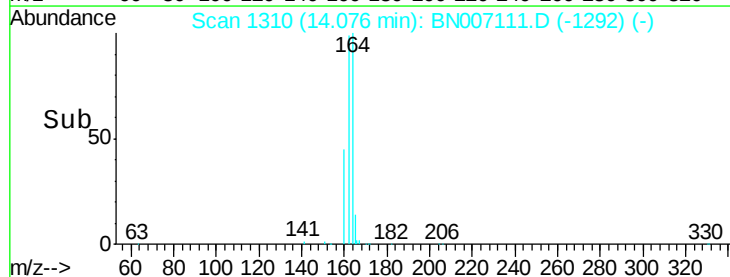
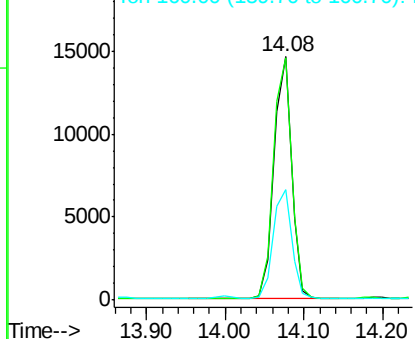


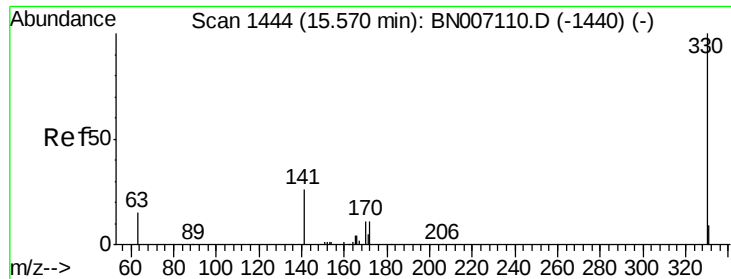
#12
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.08 min Scan# 1310
Delta R.T. -0.00 min
Lab File: BN007111.D
Acq: 13 Aug 2019 02:42

Tgt Ion	Ratio	Lower	Upper
164	100		
162	99.5	82.2	123.4
160	45.5	38.3	57.5



Abundance Ion 164.00 (163.70 to 164.70): E
Ion 162.00 (161.70 to 162.70): E
Ion 160.00 (159.70 to 160.70): E





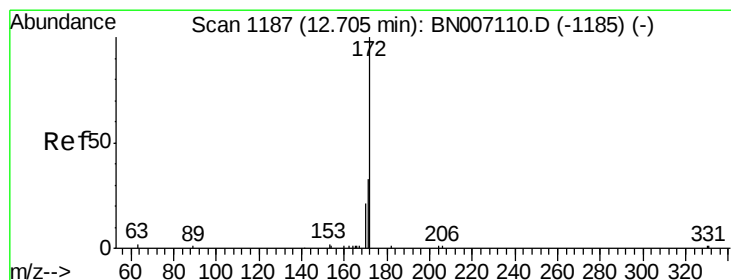
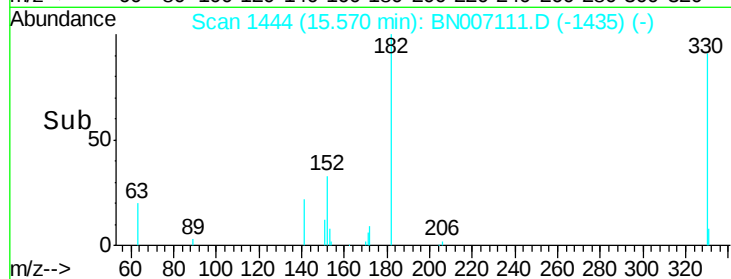
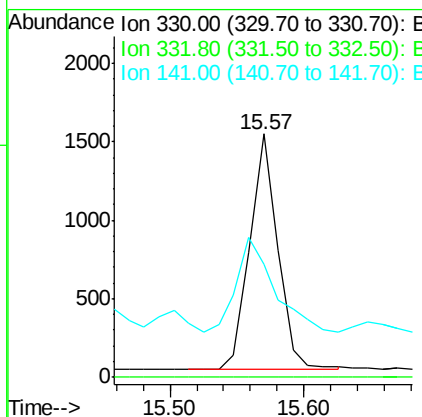
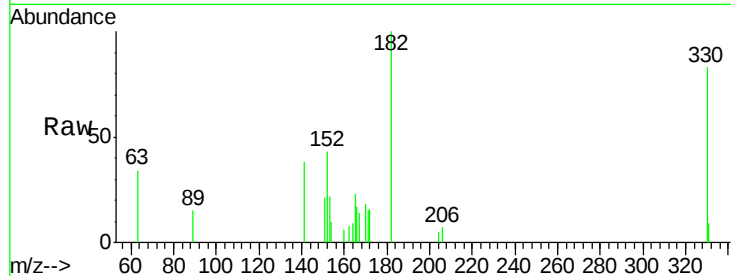
#13
 2,4,6-Tribromophenol
 Concen: 0.180 ng
 RT: 15.57 min Scan# 1444
 Delta R.T. -0.00 min
 Lab File: BN007111.D
 Acq: 13 Aug 2019 02:42

Instrument :
 BNA_N
 ClientSampleId :
 EXT-008-SW118-073119

Tot Ion	Ratio	Lower	Upper
330	100		
332	0.0	0.0	0.0
141	53.3	33.6	50.4

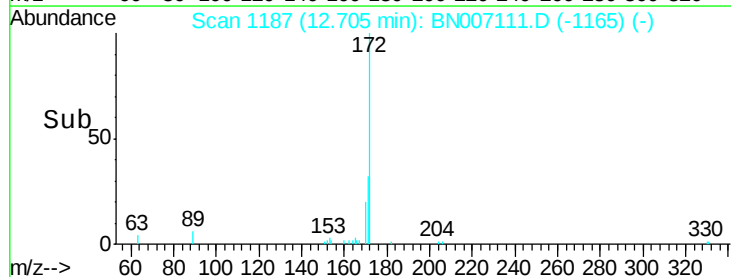
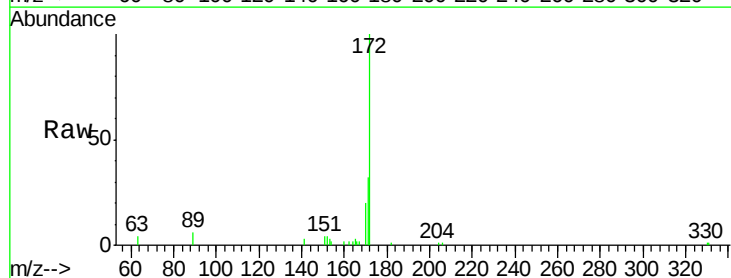
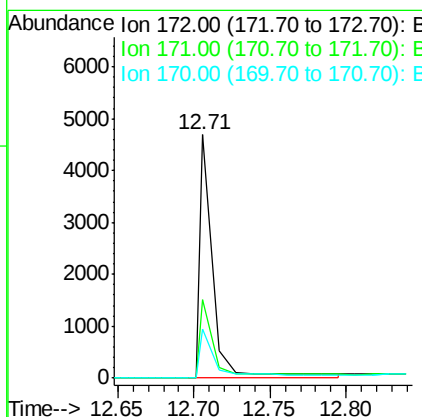
Manual Integrations
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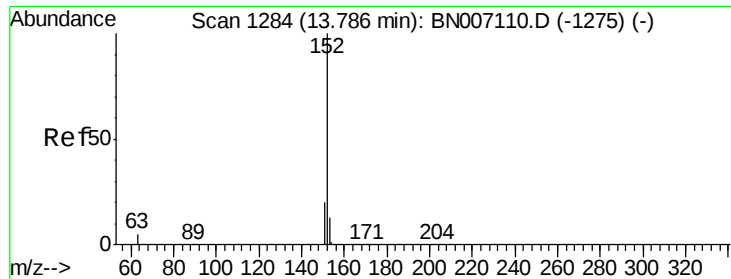
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#14
 2-Fluorobiphenyl
 Concen: 0.104 ng
 RT: 12.71 min Scan# 1187
 Delta R.T. -0.00 min
 Lab File: BN007111.D
 Acq: 13 Aug 2019 02:42

Tgt Ion	Ratio	Lower	Upper
172	100		
171	32.2	26.3	39.5
170	20.2	17.0	25.4





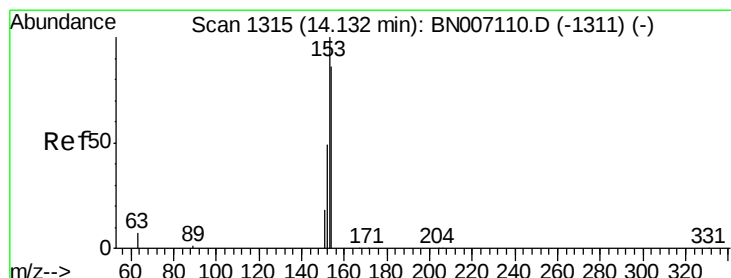
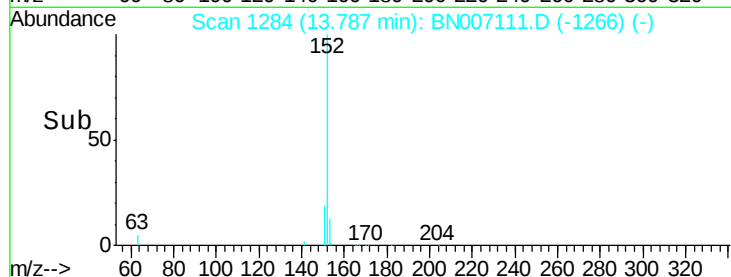
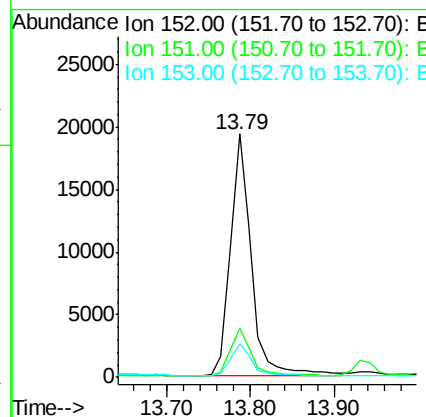
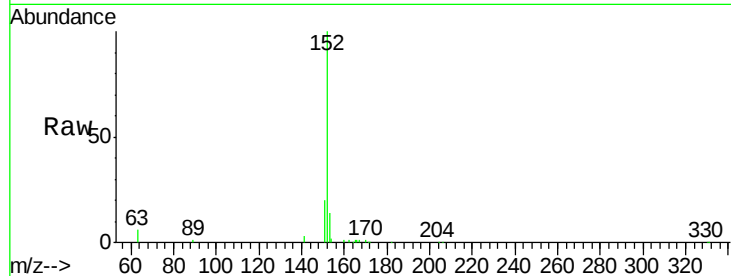
#15
Acenaphthylene
Concen: 0.279 ng
RT: 13.79 min Scan# 1284
Delta R.T. -0.00 min
Lab File: BN007111.D
Acq: 13 Aug 2019 02:42

Instrument :
BNA_N
ClientSampleId :
EXT-008-SW118-073119

Tot Ion:	152	Resp:	32940
Ion Ratio	Lower	Upper	
152	100		
151	19.6	15.8	23.6
153	13.2	10.4	15.6

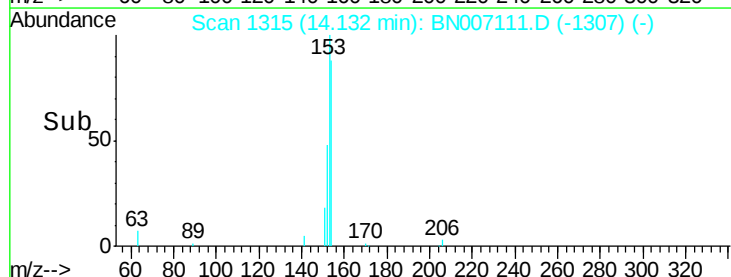
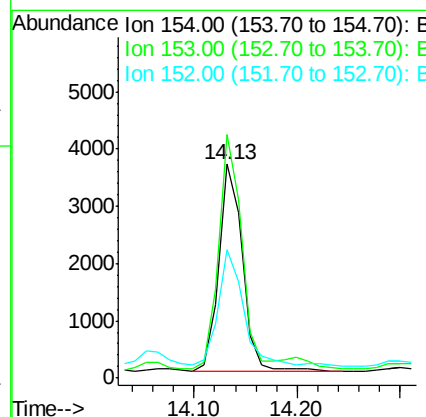
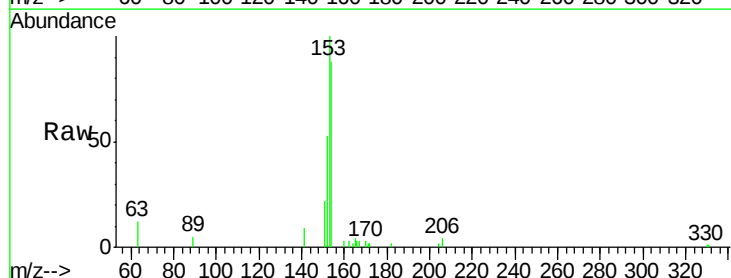
Manual Integrations
APPROVED

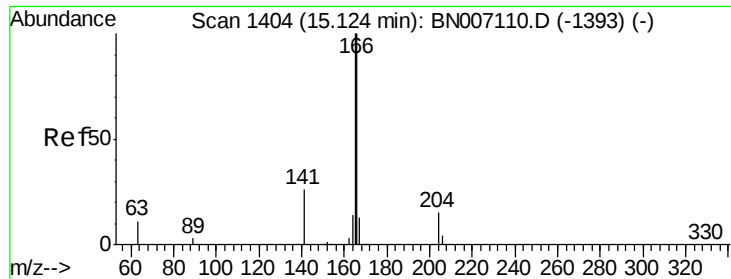
mohammad
8/14/2019 2:52:13 AM



#16
Acenaphthene
Concen: 0.076 ng
RT: 14.13 min Scan# 1315
Delta R.T. -0.01 min
Lab File: BN007111.D
Acq: 13 Aug 2019 02:42

Tgt Ion:	154	Resp:	5788
Ion Ratio	Lower	Upper	
154	100		
153	109.9	89.5	134.3
152	61.9	44.8	67.2





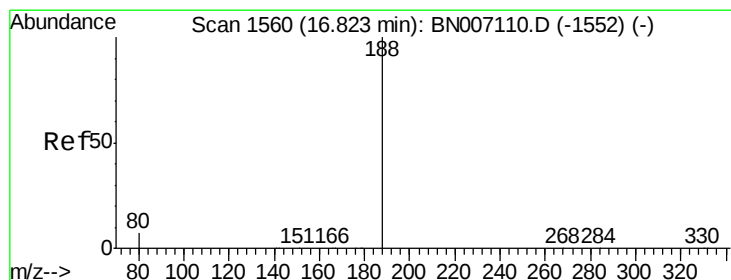
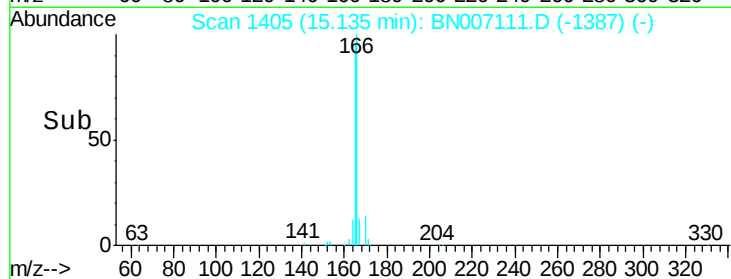
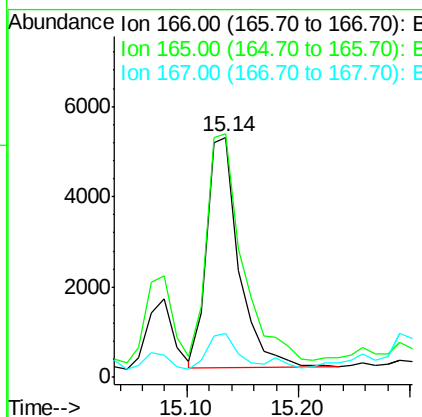
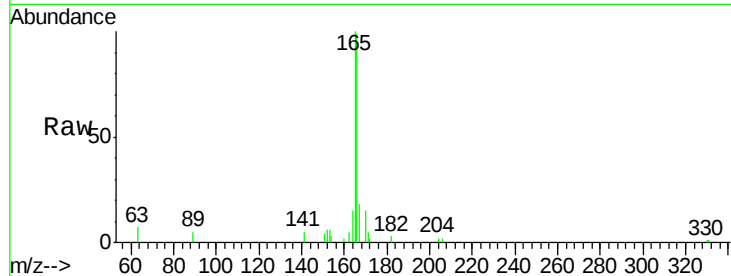
#17
Fluorene
Concen: 0.091 ng
RT: 15.14 min Scan# 1405
Delta R.T. -0.00 min
Lab File: BN007111.D
Acq: 13 Aug 2019 02:42

Instrument :
BNA_N
ClientSampleId :
EXT-008-SW118-073119

Tot Ion	Ratio	Lower	Upper
166	100		
165	106.6	77.9	116.9
167	15.1	10.9	16.3

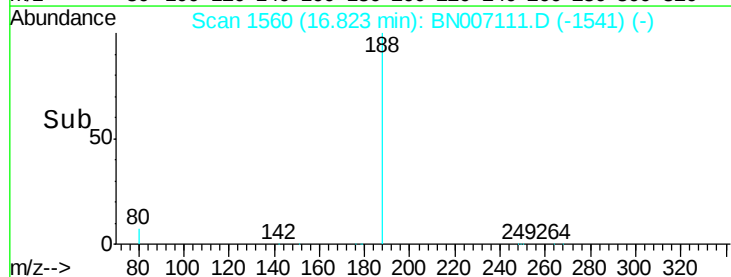
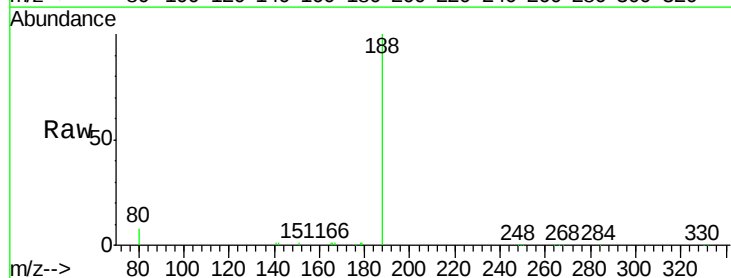
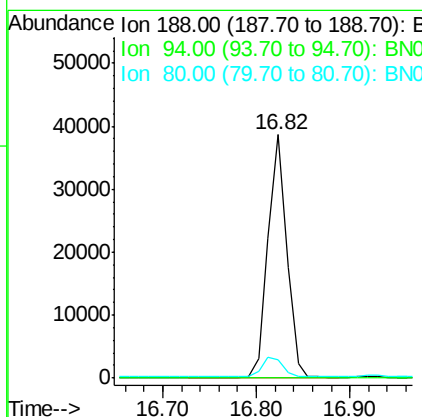
Manual Integrations
APPROVED

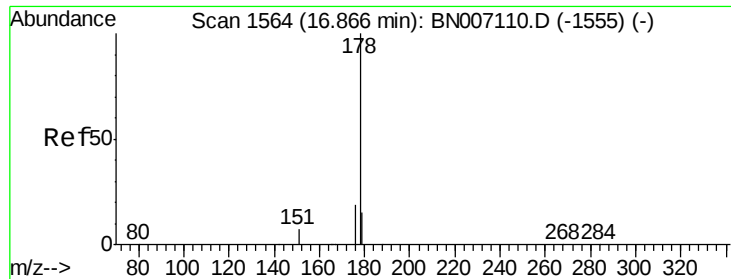
mohammad
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#18
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.82 min Scan# 1560
Delta R.T. -0.00 min
Lab File: BN007111.D
Acq: 13 Aug 2019 02:42

Tgt Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	7.5	7.8	11.6#





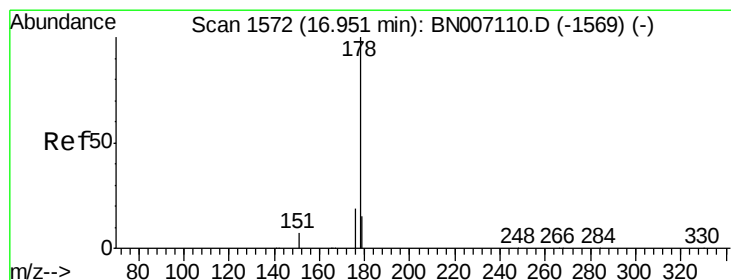
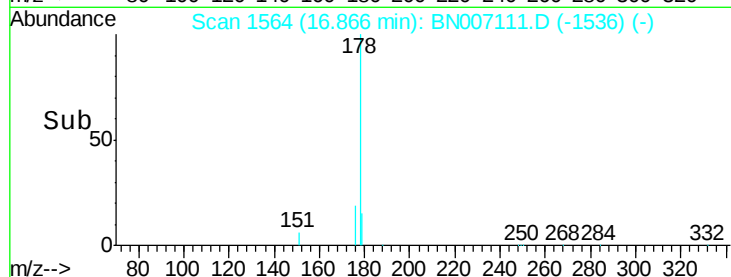
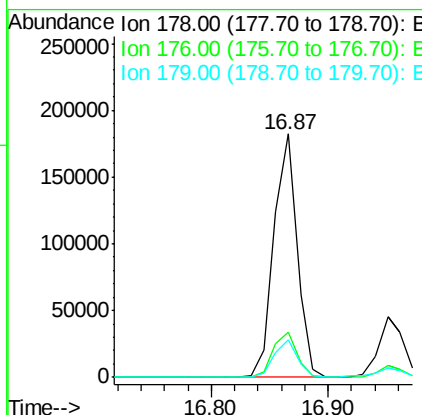
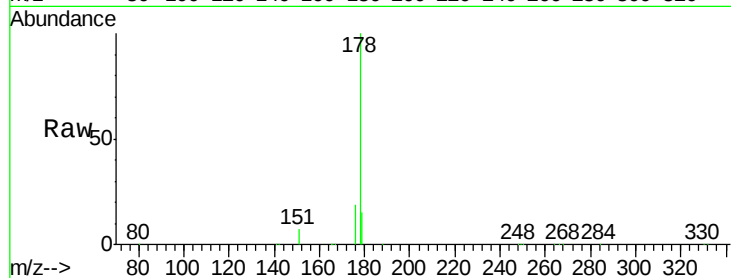
#22
Phenanthrene
Concen: 1.577 ng
RT: 16.87 min Scan# 1564
Delta R.T. -0.00 min
Lab File: BN007111.D
Acq: 13 Aug 2019 02:42

Instrument :
BNA_N
ClientSampleId :
EXT-008-SW118-073119

Tot Ion	Ratio	Lower	Upper
178	100		
176	18.9	15.2	22.8
179	15.4	12.3	18.5

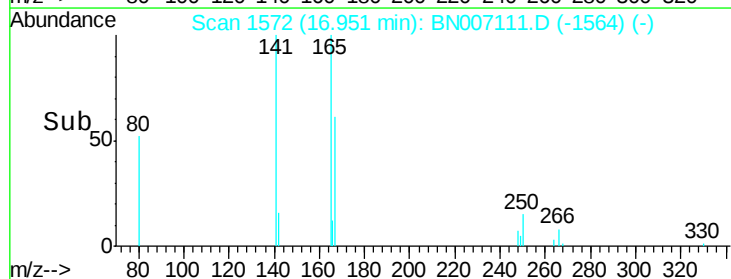
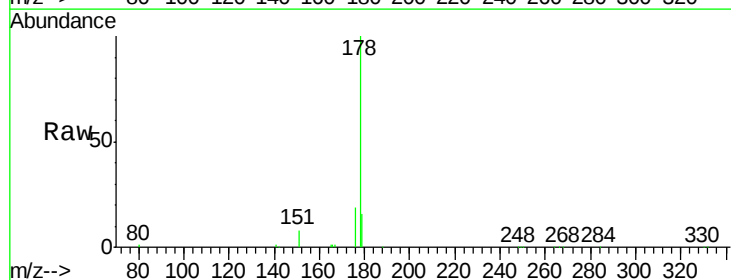
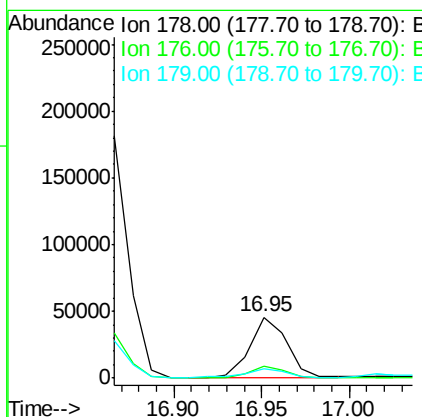
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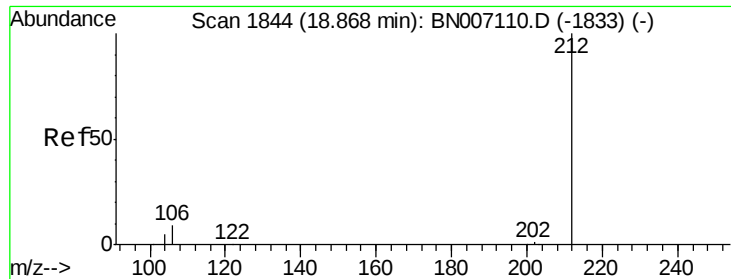
mohammad
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#23
Anthracene
Concen: 0.444 ng
RT: 16.95 min Scan# 1572
Delta R.T. -0.01 min
Lab File: BN007111.D
Acq: 13 Aug 2019 02:42

Tgt Ion	Ratio	Lower	Upper
178	100		
176	18.5	14.6	21.8
179	17.1	12.5	18.7





#24

Fluoranthene-d10

Concen: 0.189 ng

RT: 18.87 min Scan# 1844

Delta R.T. -0.01 min

Lab File: BN007111.D

Acq: 13 Aug 2019 02:42

Instrument :

BNA_N

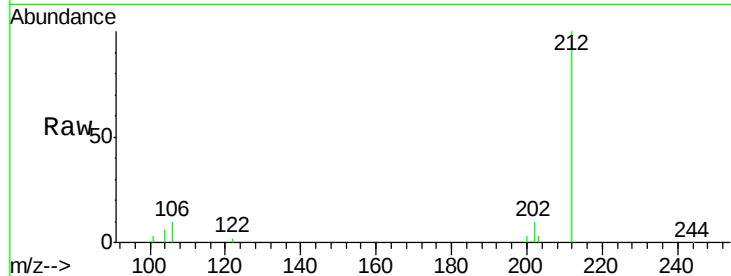
ClientSampleId :

EXT-008-SW118-073119

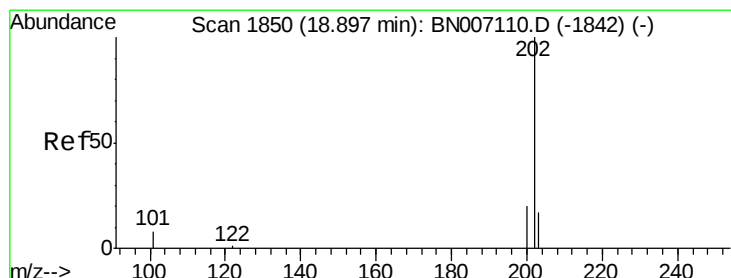
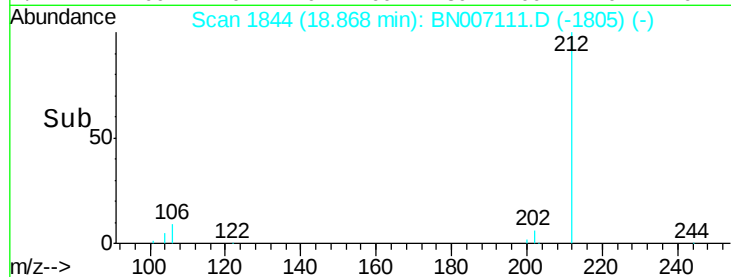
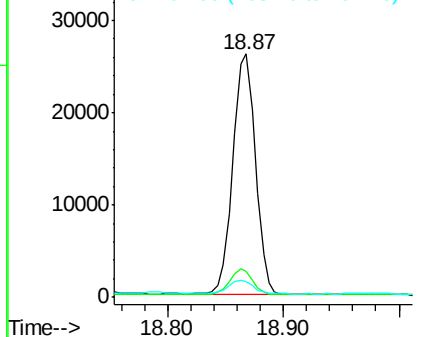
Tot Ion:	212	Resp:	35857
Ion Ratio	Lower	Upper	
212	100		
106	10.4	8.2	12.2
104	6.3	4.5	6.7

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Abundance Ion 212.00 (211.70 to 212.70): E
Ion 106.00 (105.70 to 106.70): E
Ion 104.00 (103.70 to 104.70): E



#25

Fluoranthene

Concen: 2.758 ng

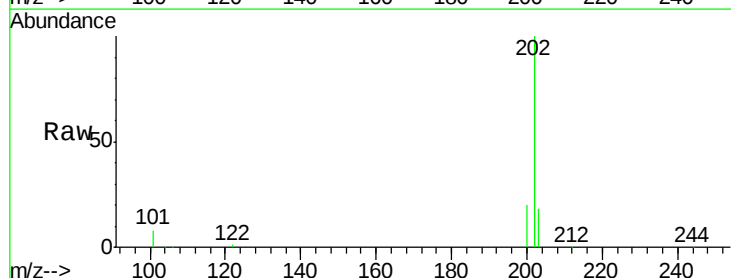
RT: 18.90 min Scan# 1850

Delta R.T. -0.01 min

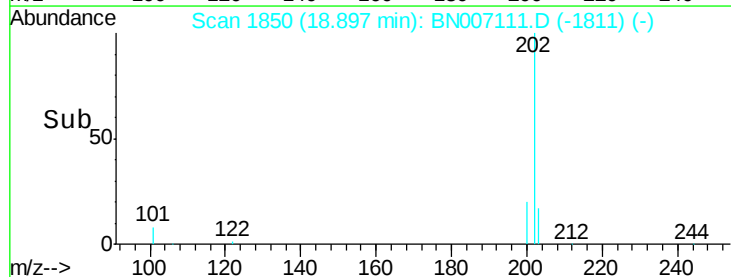
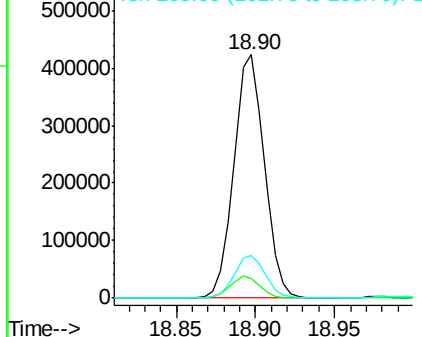
Lab File: BN007111.D

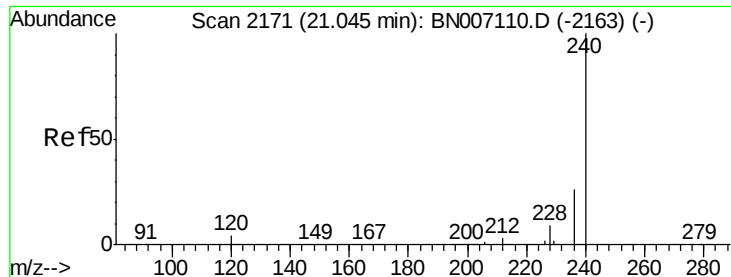
Acq: 13 Aug 2019 02:42

Tgt Ion:	202	Resp:	565898
Ion Ratio	Lower	Upper	
202	100		
101	8.7	7.0	10.4
203	17.5	13.8	20.8



Abundance Ion 202.00 (201.70 to 202.70): E
Ion 101.00 (100.70 to 101.70): E
Ion 203.00 (202.70 to 203.70): E





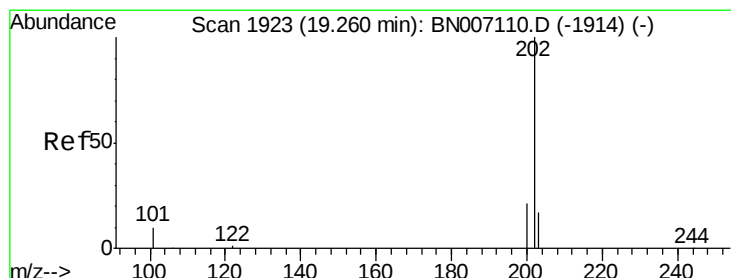
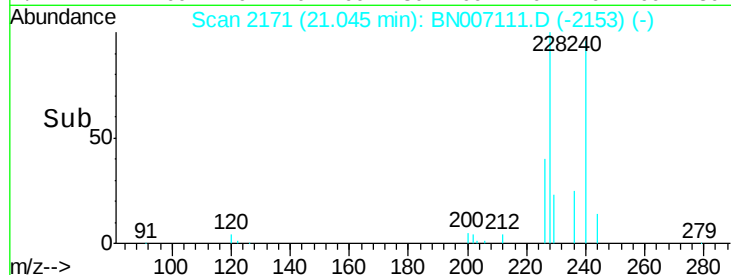
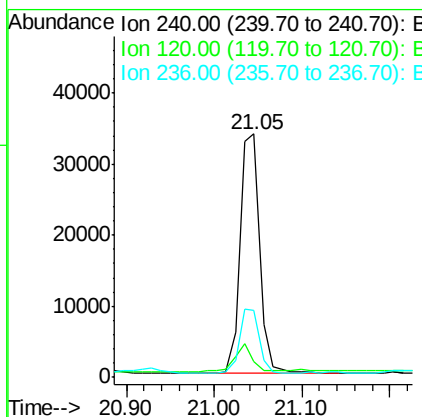
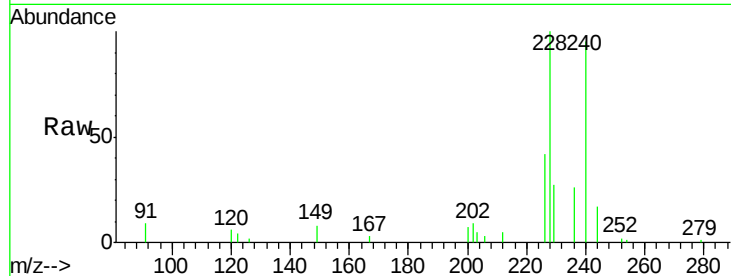
#26
Chrysene-d12
Concen: 0.400 ng
RT: 21.05 min Scan# 2171
Delta R.T. -0.01 min
Lab File: BN007111.D
Acq: 13 Aug 2019 02:42

Instrument :
BNA_N
ClientSampleId :
EXT-008-SW118-073119

Tot Ion	Ratio	Lower	Upper
240	100		
120	6.3	4.0	6.0#
236	27.5	21.3	31.9

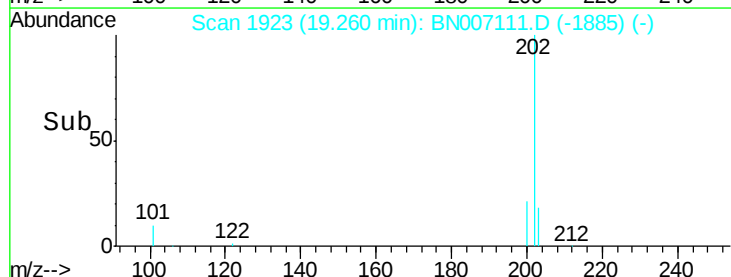
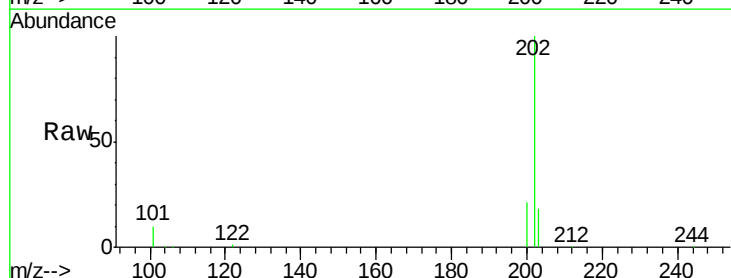
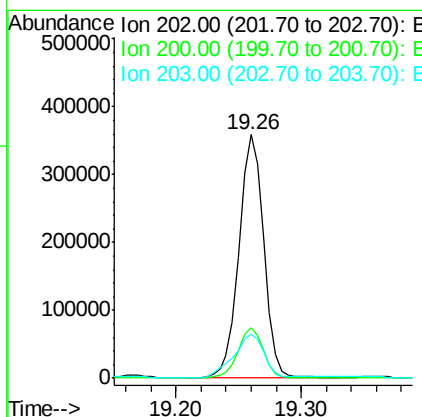
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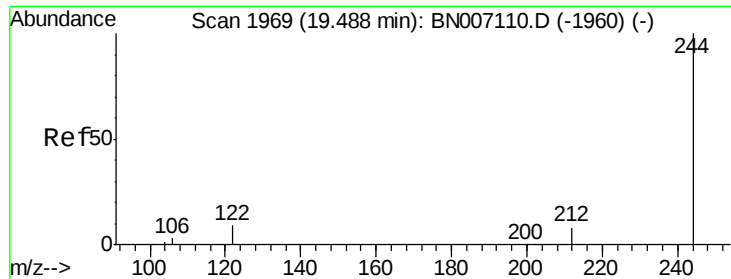
mohammad
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#27
Pyrene
Concen: 2.660 ng
RT: 19.26 min Scan# 1923
Delta R.T. -0.01 min
Lab File: BN007111.D
Acq: 13 Aug 2019 02:42

Tgt Ion	Ratio	Lower	Upper
202	100		
200	21.0	16.6	24.8
203	21.7	14.0	21.0#





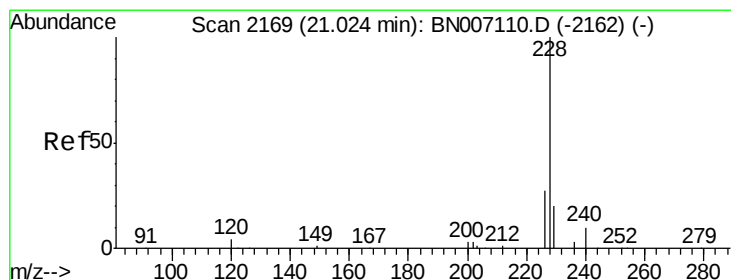
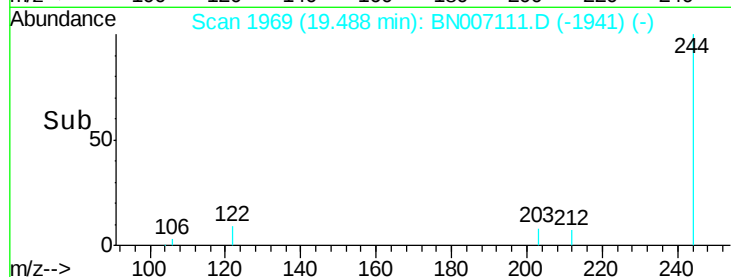
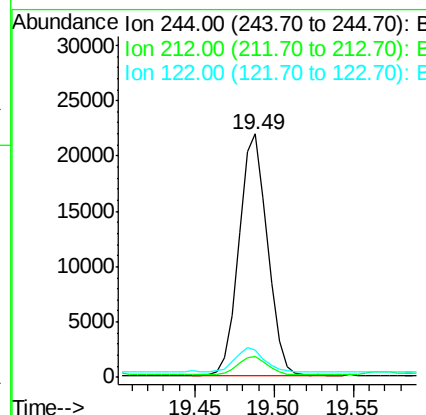
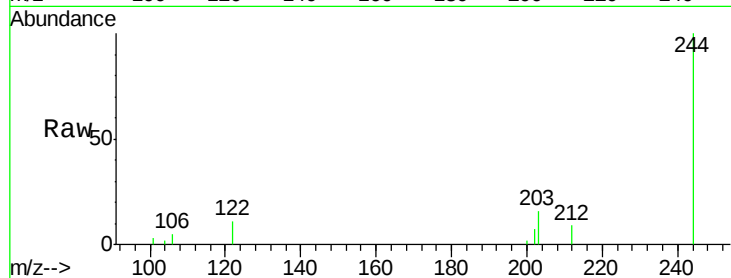
#28
 Terphenyl-d14
 Concen: 0.191 ng
 RT: 19.49 min Scan# 1969
 Delta R.T. -0.01 min
 Lab File: BN007111.D
 Acq: 13 Aug 2019 02:42

Instrument :
 BNA_N
 ClientSampleId :
 EXT-008-SW118-073119

Tot Ion	Ratio	Lower	Upper
244	100		
212	8.6	6.2	9.2
122	11.3	7.4	11.2

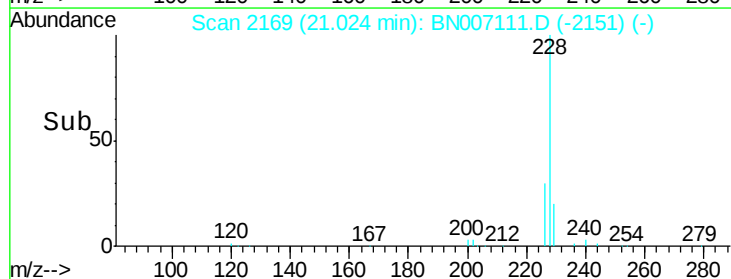
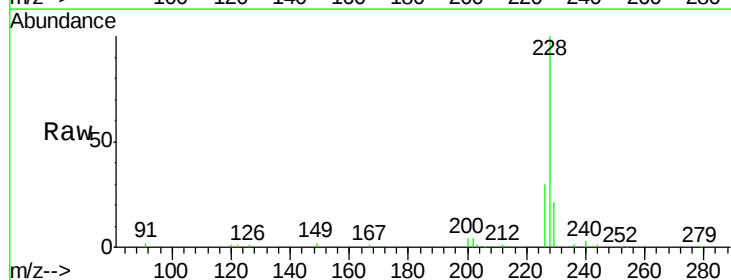
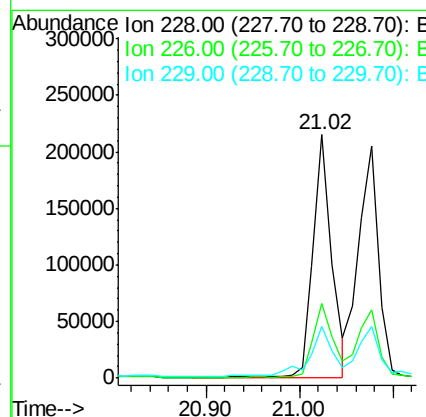
Manual Integrations
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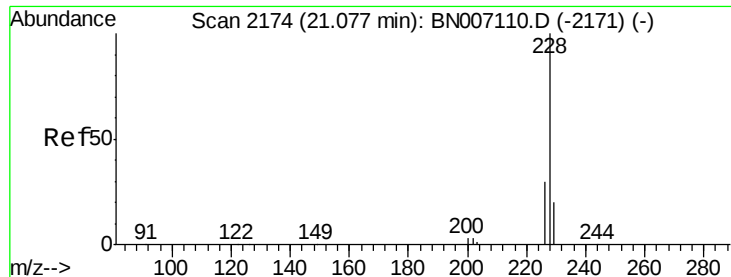
mohammad
 8/14/2019 2:52:13 AM



#29
 Benzo(a)anthracene
 Concen: 1.542 ng
 RT: 21.02 min Scan# 2169
 Delta R.T. -0.01 min
 Lab File: BN007111.D
 Acq: 13 Aug 2019 02:42

Tgt Ion	Ratio	Lower	Upper
228	100		
226	30.4	21.8	32.6
229	21.1	15.6	23.4





#30

Chrysene

Concen: 1.625 ng

RT: 21.08 min Scan# 2174

Delta R.T. -0.01 min

Lab File: BN007111.D

Acq: 13 Aug 2019 02:42

Instrument :

BNA_N

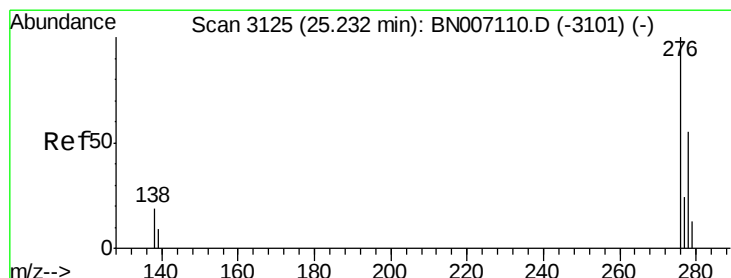
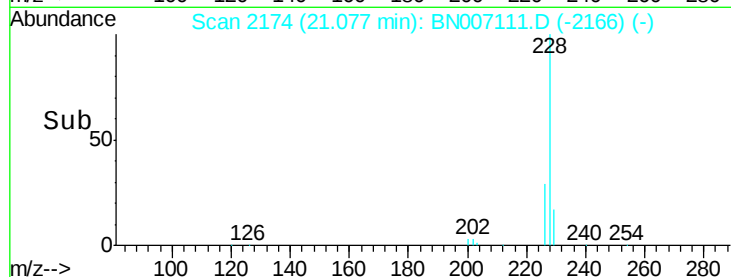
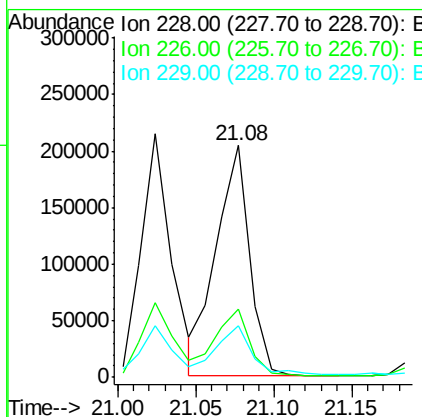
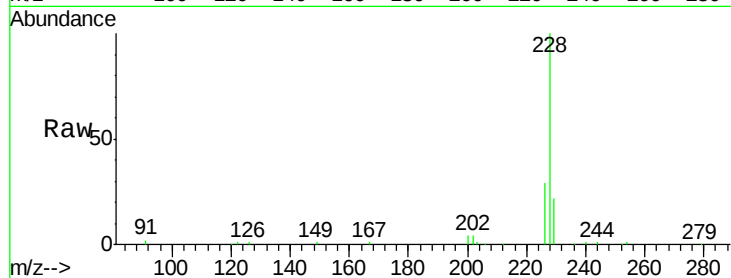
ClientSampleId :

EXT-008-SW118-073119

Tot Ion	Ion	Ratio	Resp	Lower	Upper
228	100		302229		
226	29.3		23.8	35.6	
229	22.2		15.7	23.5	

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mohammad
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#31

Indeno(1,2,3-cd)pyrene

Concen: 0.963 ng

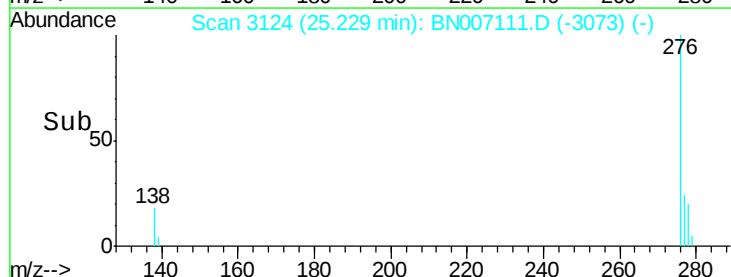
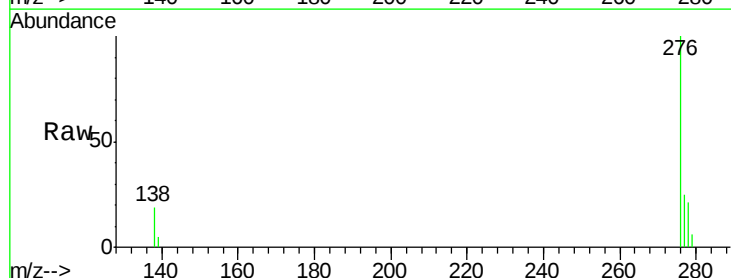
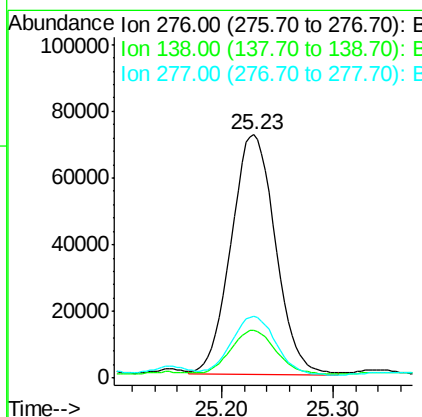
RT: 25.23 min Scan# 3124

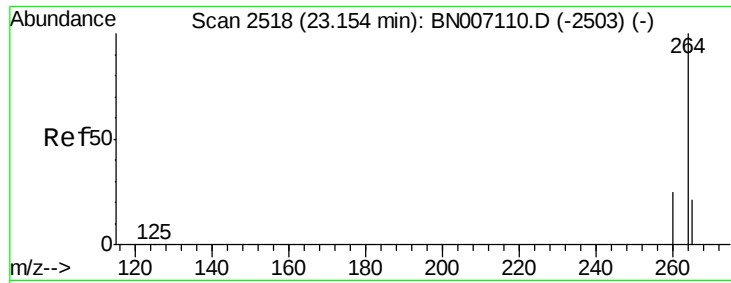
Delta R.T. -0.02 min

Lab File: BN007111.D

Acq: 13 Aug 2019 02:42

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
276	100		197368		
138	19.0		16.0	24.0	
277	24.3		19.9	29.9	





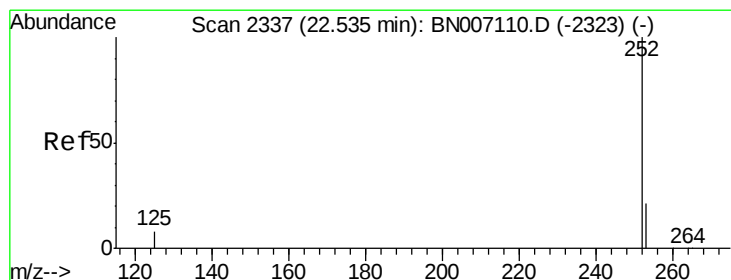
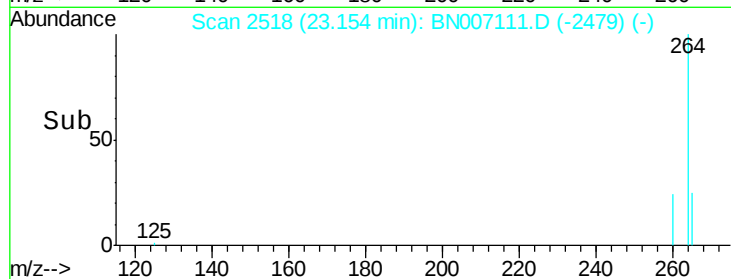
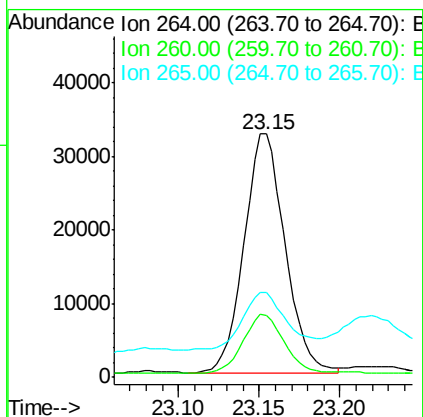
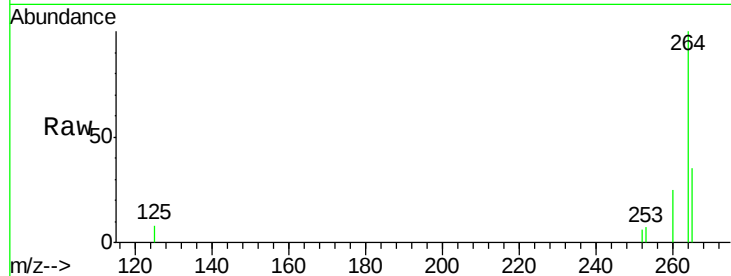
#32
 Pervlene-d12
 Concen: 0.400 ng
 RT: 23.15 min Scan# 2518
 Delta R.T. -0.02 min
 Lab File: BN007111.D
 Acq: 13 Aug 2019 02:42

Instrument :
 BNA_N
 ClientSampleId :
 EXT-008-SW118-073119

Tot Ion	Ratio	Lower	Upper
264	100		
260	25.4	19.8	29.8
265	34.6	26.2	39.4

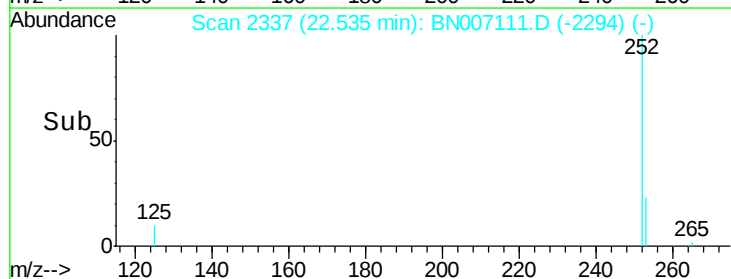
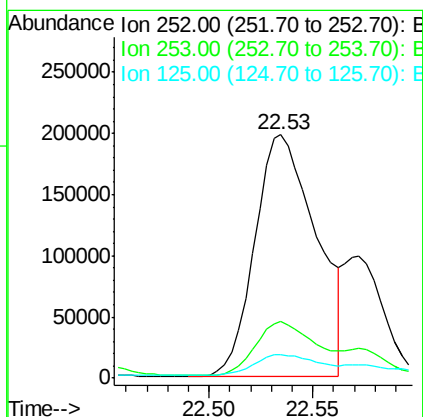
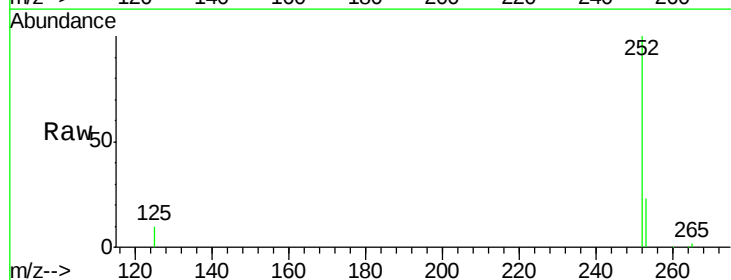
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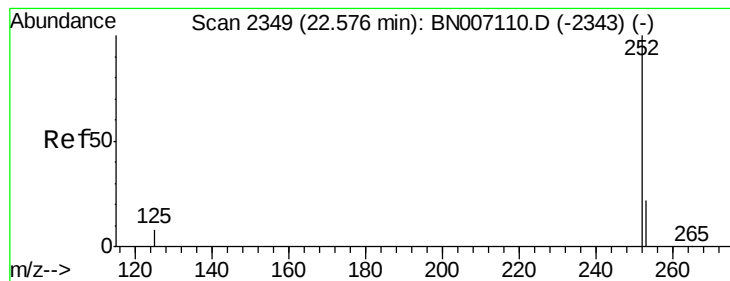
mohammad
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#33
 Benzo(b)fluoranthene
 Concen: 2.070 ng
 RT: 22.53 min Scan# 2337
 Delta R.T. -0.01 min
 Lab File: BN007111.D
 Acq: 13 Aug 2019 02:42

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.2	18.2	27.2
125	9.6	7.4	11.0





#34

Benzo(k)fluoranthene

Concen: 0.668 ng

RT: 22.57 min Scan# 2348

Delta R.T. -0.02 min

Lab File: BN007111.D

Acq: 13 Aug 2019 02:42

Instrument :

BNA_N

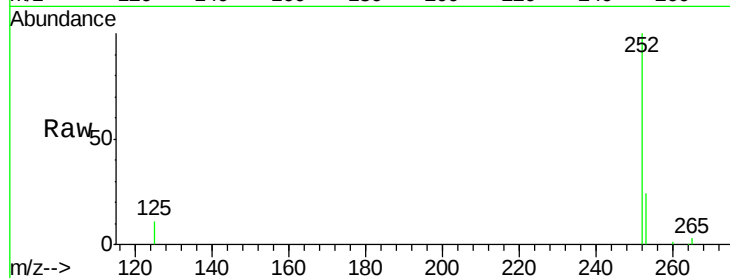
ClientSampleId :

EXT-008-SW118-073119

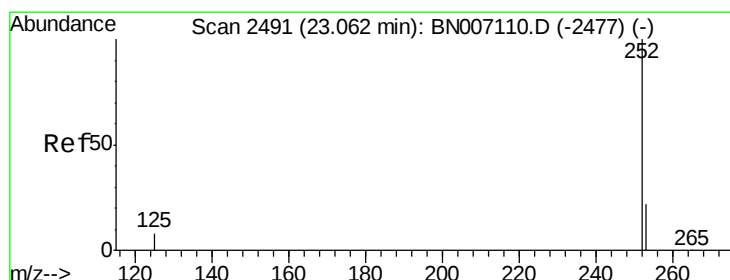
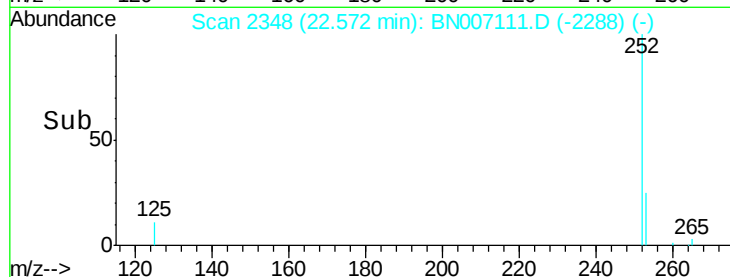
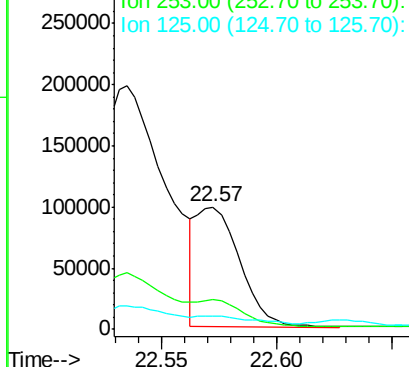
Tot Ion:	252	Resp:	129592
Ion Ratio	Lower	Upper	
252	100		
253	24.3	18.1	27.1
125	10.6	7.4	11.0

Manual Integrations
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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



#35

Benzo(a)pyrene

Concen: 1.487 ng

RT: 23.06 min Scan# 2491

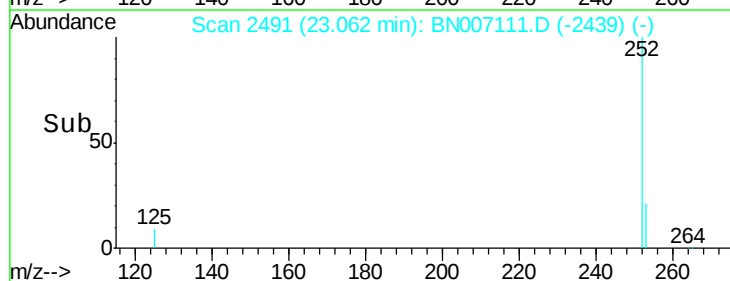
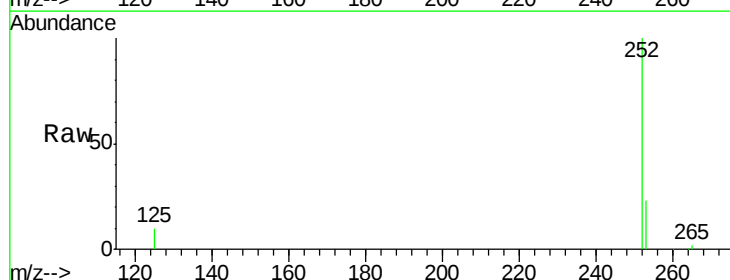
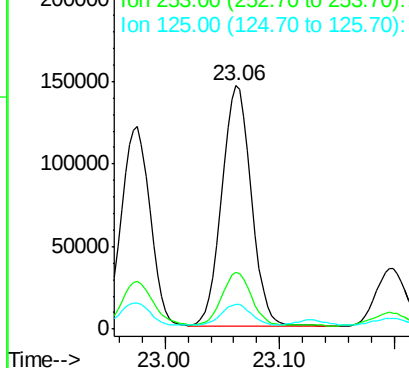
Delta R.T. -0.02 min

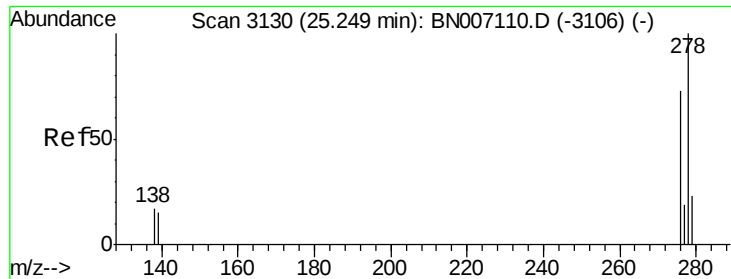
Lab File: BN007111.D

Acq: 13 Aug 2019 02:42

Tgt Ion:	252	Resp:	264768
Ion Ratio	Lower	Upper	
252	100		
253	23.1	18.5	27.7
125	10.2	8.2	12.4

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





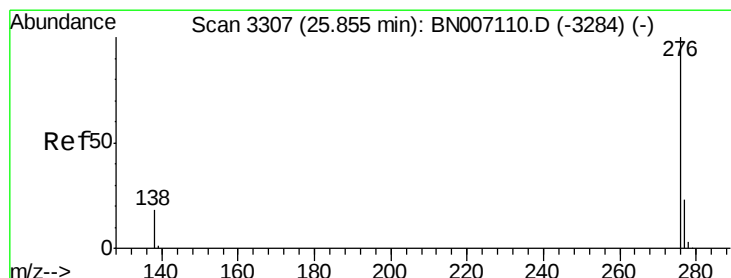
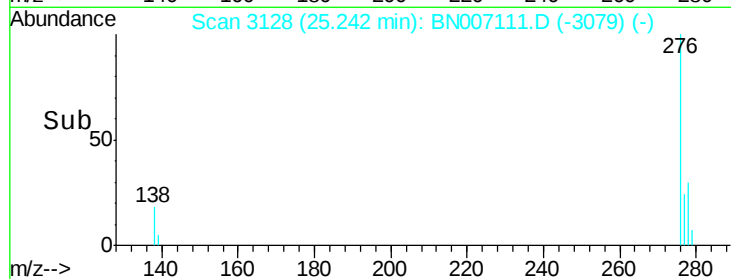
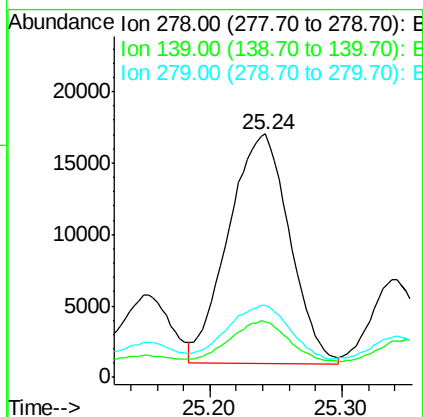
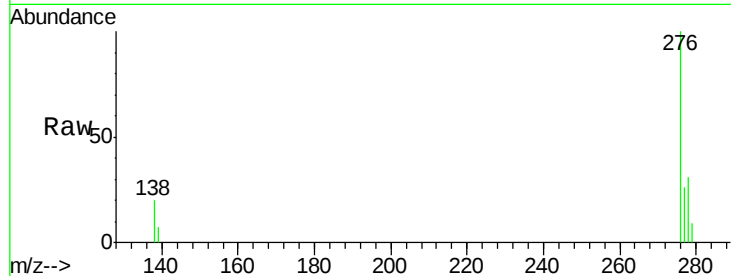
#36
Dibenzo(a,h)anthracene
Concen: 0.291 ng
RT: 25.24 min Scan# 3128
Delta R.T. -0.03 min
Lab File: BN007111.D
Acq: 13 Aug 2019 02:42

Instrument :
BNA_N
ClientSampleId :
EXT-008-SW118-073119

Tot Ion	Ratio	Lower	Upper
278	100		
139	22.7	11.3	16.9#
279	29.6	19.3	28.9#

Manual Integrations
APPROVED

mohammad
8/14/2019 2:52:13 AM



#37
Benzo(g,h,i)perylene
Concen: 1.111 ng
RT: 25.85 min Scan# 3306
Delta R.T. -0.03 min
Lab File: BN007111.D
Acq: 13 Aug 2019 02:42

Tgt Ion	Ratio	Lower	Upper
276	100		
277	24.9	19.8	29.8
138	19.4	14.6	22.0

