

Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN081219\
 Data File : BN007122.D
 Acq On : 13 Aug 2019 09:19
 Operator : HP/JU
 Sample : K4240-07
 Misc :
 ALS Vial : 31 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 EXT-035-SW103-080619

Manual Integrations
 APPROVED

mohammad
 8/14/2019 2:52:49 AM

Quant Time: Aug 13 13:15:40 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	9789	0.40	ng	0.00
6) Naphthalene-d8	10.19	136	38714	0.40	ng	0.00
12) Acenaphthene-d10	14.08	164	22188	0.40	ng	0.00
18) Phenanthrene-d10	16.82	188	50728	0.40	ng	0.00
26) Chrysene-d12	21.05	240	47572	0.40	ng	-0.01
32) Perylene-d12	23.16	264	54786	0.40	ng	0.00

System Monitoring Compounds

3) 2-Fluorophenol	5.06	112	4060	0.17	ng	0.00
4) Phenol-d6	6.62	99	5507	0.19	ng	0.00
7) Nitrobenzene-d5	8.56	82	4664	0.15	ng	0.00
10) 2-Methylnaphthalene-d10	11.79	152	10289	0.14	ng	0.00
13) 2,4,6-Tribromophenol	15.57	330	1719	0.14	ng	0.00
14) 2-Fluorobiphenyl	12.71	172	2663	0.08	ng	0.00
24) Fluoranthene-d10	18.87	212	25768	0.14	ng	0.00
28) Terphenyl-d14	19.49	244	20155	0.16	ng	0.00

Target Compounds

						Qvalue
8) Naphthalene	10.24	128	11328	0.104	ng	# 96
11) 2-Methylnaphthalene	11.87	142	8868	0.115	ng	# 93
15) Acenaphthylene	13.79	152	182077	1.570	ng	99
16) Acenaphthene	14.13	154	9472	0.128	ng	91
17) Fluorene	15.15	166	25161	0.226	ng	# 63
21) Pentachlorophenol	16.48	266	460	0.041	ng	91
22) Phenanthrene	16.87	178	203058	1.336	ng	99
23) Anthracene	16.95	178	111897	0.806	ng	99
25) Fluoranthene	18.90	202	641240	3.297	ng	99
27) Pyrene	19.26	202	675356	4.048	ng	96
29) Benzo(a)anthracene	21.02	228	434425m	2.497	ng	
30) Chrysene	21.08	228	422423	2.499	ng	95
31) Indeno(1,2,3-cd)pyrene	25.24	276	371397	1.994	ng	99
33) Benzo(b)fluoranthene	22.55	252	682440	3.633	ng	98
34) Benzo(k)fluoranthene	22.58	252	191154m	1.030	ng	
35) Benzo(a)pyrene	23.07	252	454579	2.669	ng	99
36) Dibenzo(a,h)anthracene	25.25	278	94592	0.557	ng	# 84
37) Benzo(a,h,i)perylene	25.88	276	400615	2.292	ng	98

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

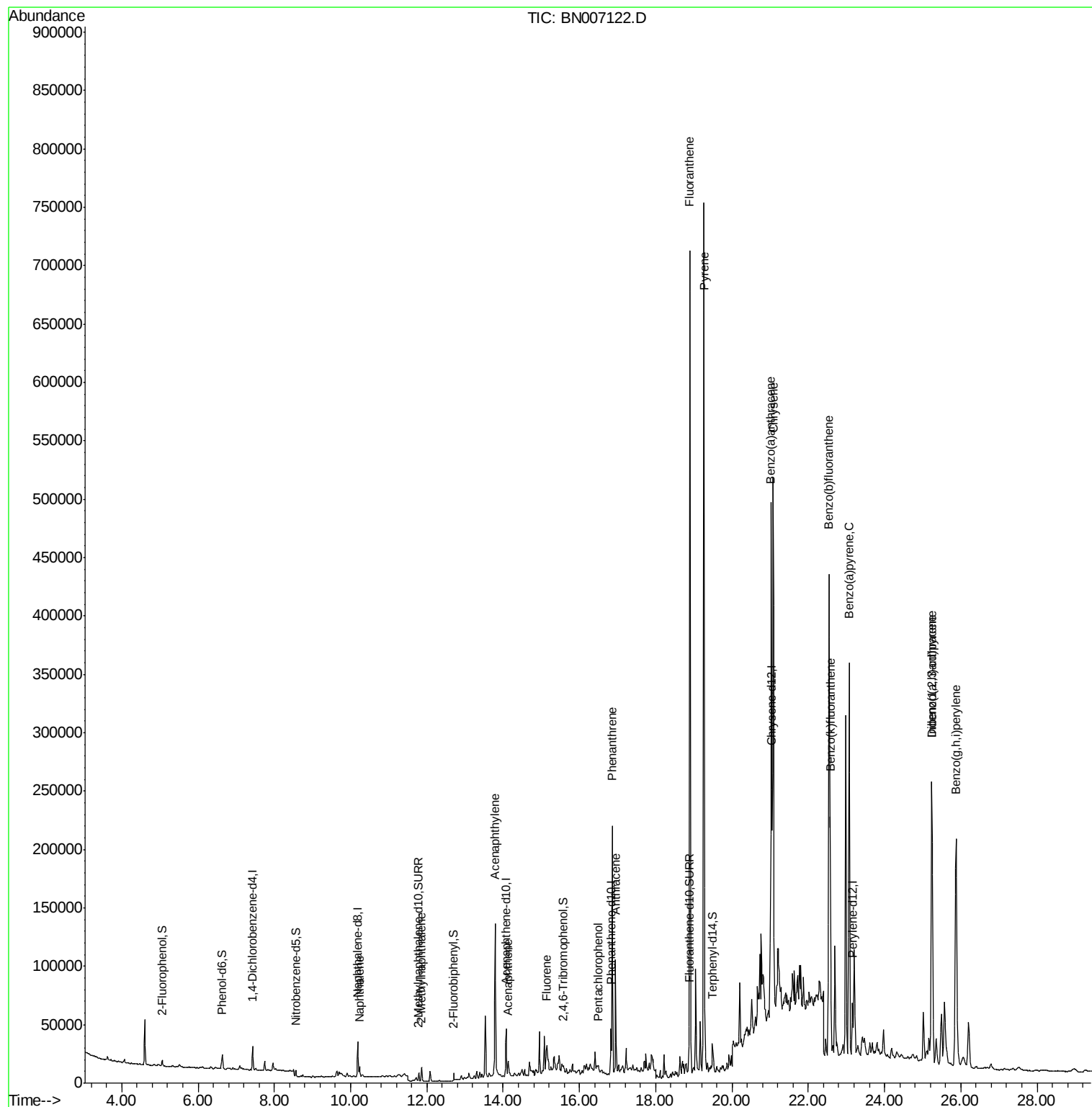
Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN081219\
Data File : BN007122.D
Acq On : 13 Aug 2019 09:19
Operator : HP/JU
Sample : K4240-07
Misc :
ALS Vial : 31 Sample Multiplier: 1

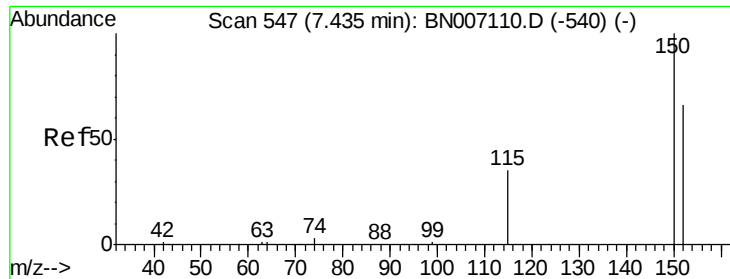
Instrument :
BNA_N
ClientSampleId :
EXT-035-SW103-080619

Manual Integrations
APPROVED

mohammad
8/14/2019 2:52:49 AM

Quant Time: Aug 13 13:15:40 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





#1

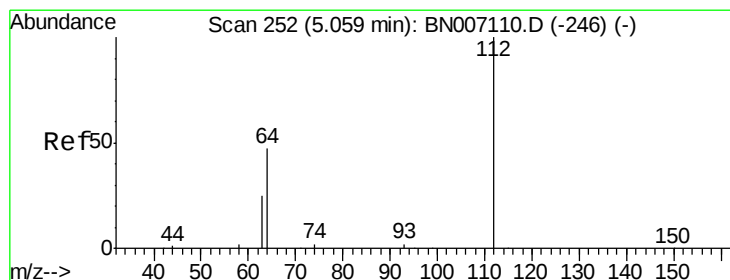
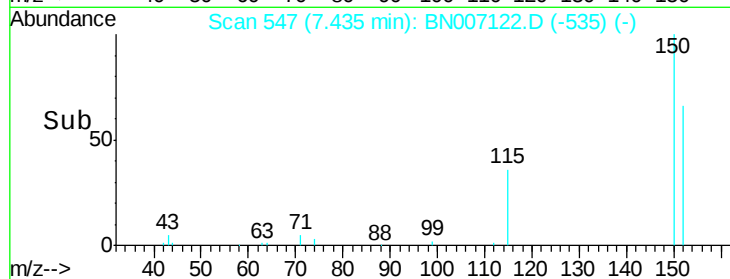
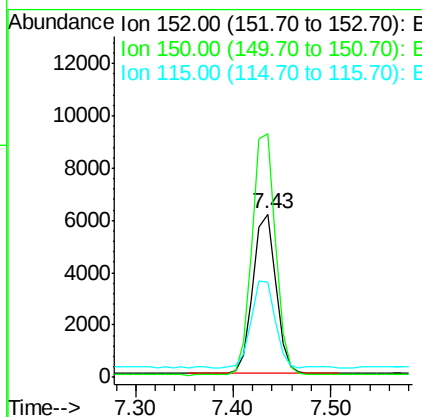
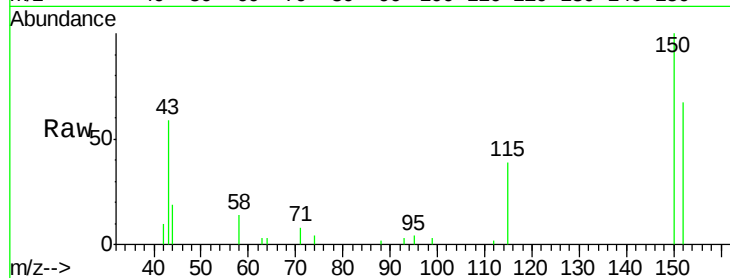
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.43 min Scan# 547
Delta R.T. -0.00 min
Lab File: BN007122.D
Acq: 13 Aug 2019 09:19

Instrument :
BNA_N
ClientSampleId :
EXT-035-SW103-080619

Tot Ion	Ratio	Lower	Upper
152	100		
150	149.3	121.7	182.5
115	58.4	46.2	69.4

Manual Integrations
APPROVED

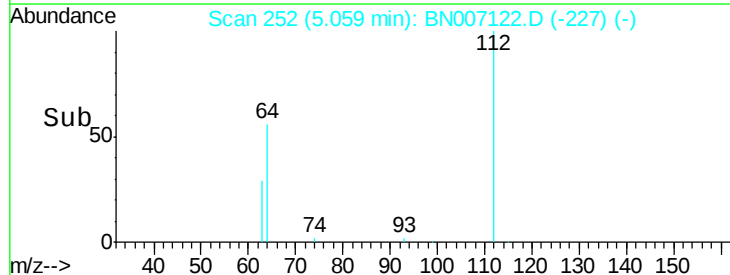
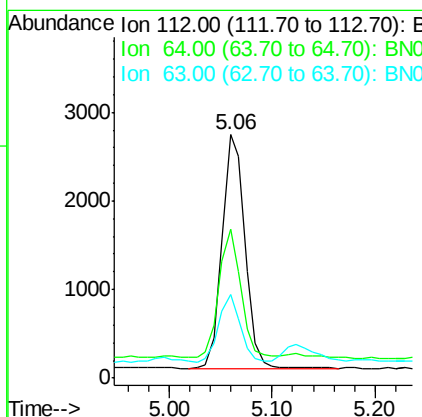
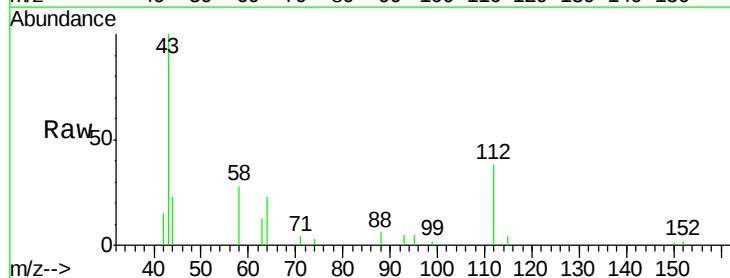
mohammad
8/14/2019 2:52:49 AM

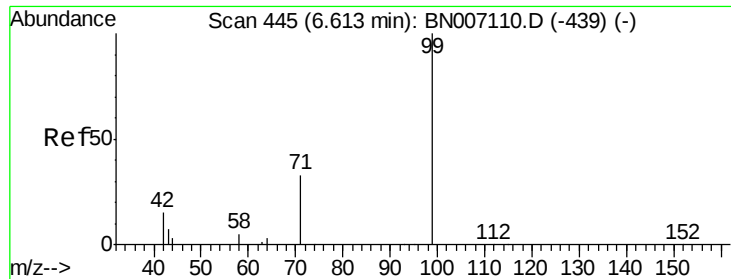


#3

2-Fluorophenol
Concen: 0.173 ng
RT: 5.06 min Scan# 252
Delta R.T. -0.00 min
Lab File: BN007122.D
Acq: 13 Aug 2019 09:19

Tgt Ion	Ratio	Lower	Upper
112	100		
64	52.0	42.6	63.8
63	27.5	22.2	33.2





#4

Phenol-d6

Concen: 0.189 ng

RT: 6.62 min Scan# 446

Delta R.T. 0.01 min

Lab File: BN007122.D

Acq: 13 Aug 2019 09:19

Instrument :

BNA_N

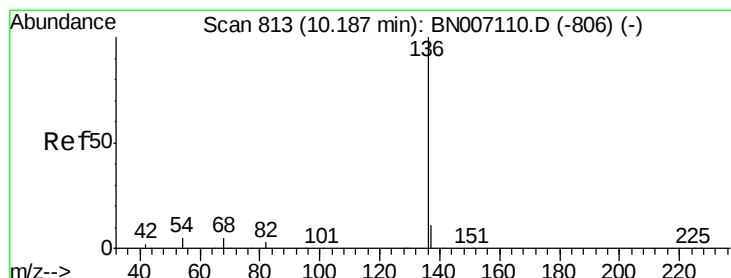
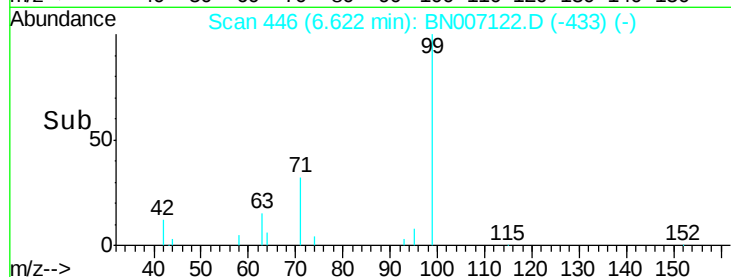
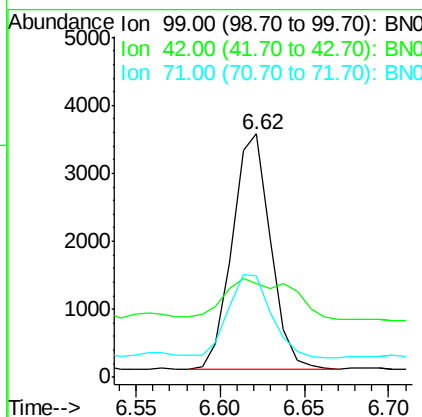
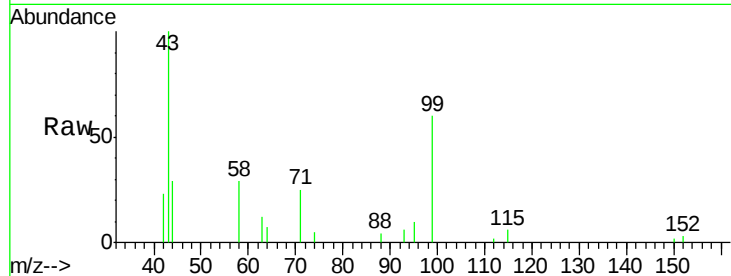
ClientSampleId :

EXT-035-SW103-080619

Tot Ion:	99	Resp:	5507
Ion Ratio	Lower	Upper	
99	100		
42	33.8	15.8	23.6#
71	39.2	27.0	40.4

Manual Integrations
APPROVED

mohammad
8/14/2019 2:52:49 AM



#6

Naphthalene-d8

Concen: 0.400 ng

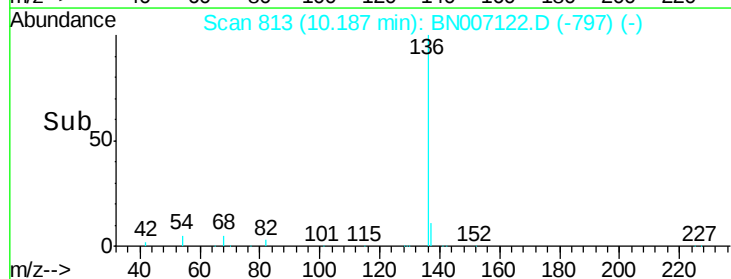
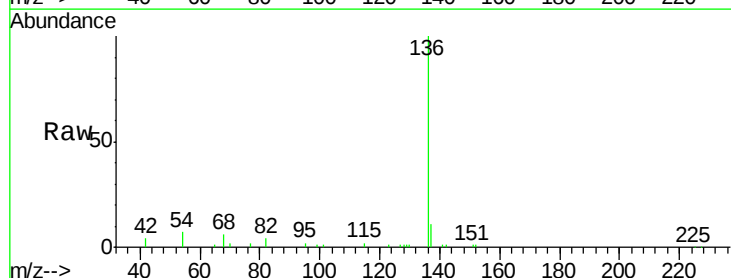
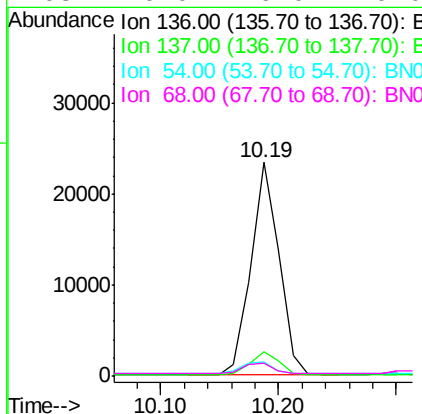
RT: 10.19 min Scan# 813

Delta R.T. -0.00 min

Lab File: BN007122.D

Acq: 13 Aug 2019 09:19

Tgt Ion:	136	Resp:	38714
Ion Ratio	Lower	Upper	
136	100		
137	11.2	9.4	14.0
54	6.6	6.6	9.8#
68	6.0	6.0	9.0#





#7

Nitrobenzene-d5

Concen: 0.149 ng

RT: 8.56 min Scan# 685

Delta R.T. -0.00 min

Lab File: BN007122.D

Acq: 13 Aug 2019 09:19

Instrument :

BNA_N

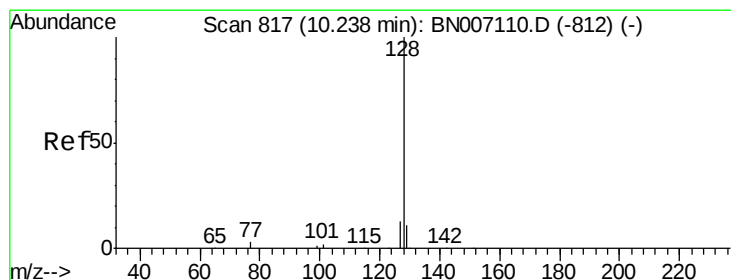
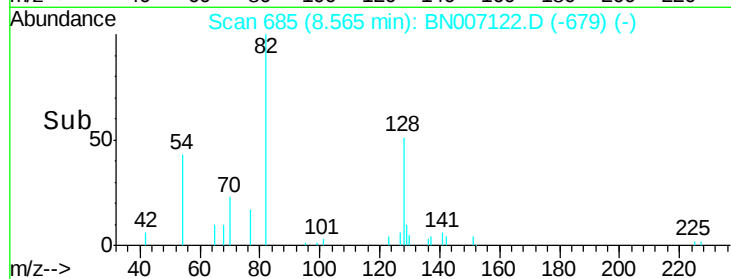
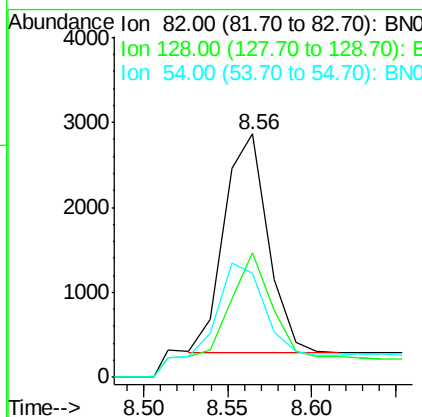
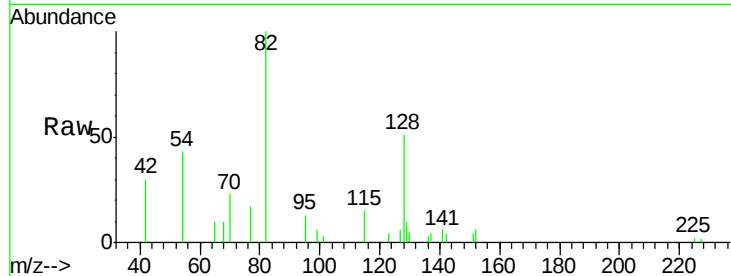
ClientSampleId :

EXT-035-SW103-080619

Tot Ion:	82	Resp:	4664
Ion	Ratio	Lower	Upper
82	100		
128	51.4	34.6	51.8
54	42.9	36.2	54.4

Manual Integrations
APPROVED

mohammad
8/14/2019 2:52:49 AM



#8

Naphthalene

Concen: 0.104 ng

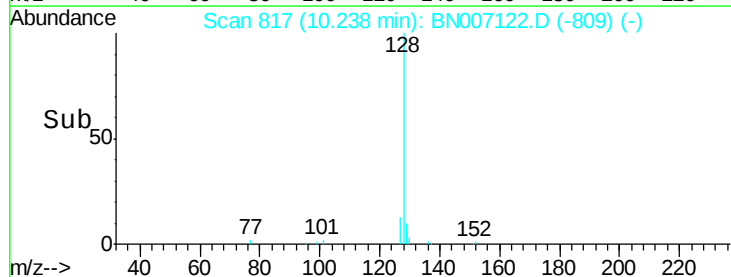
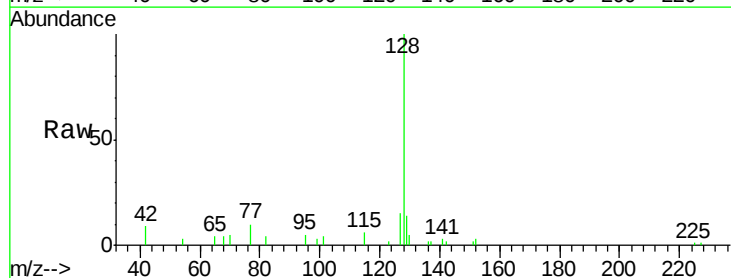
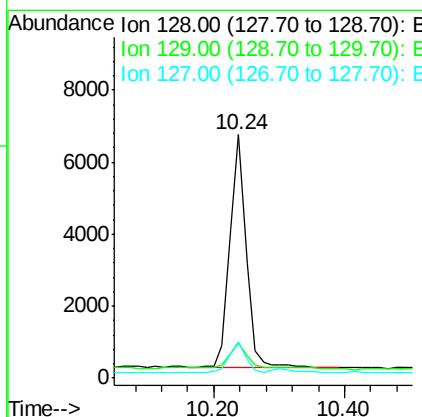
RT: 10.24 min Scan# 817

Delta R.T. -0.00 min

Lab File: BN007122.D

Acq: 13 Aug 2019 09:19

Tgt Ion:	128	Resp:	11328
Ion	Ratio	Lower	Upper
128	100		
129	14.3	9.4	14.2#
127	14.7	11.0	16.6





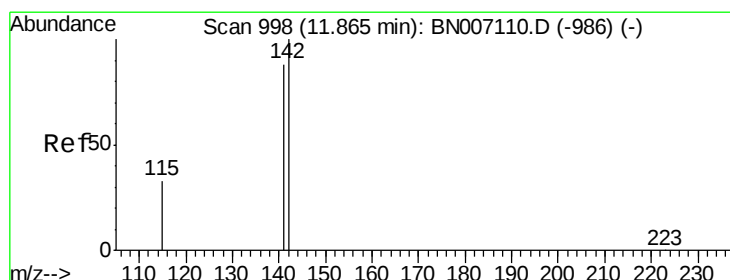
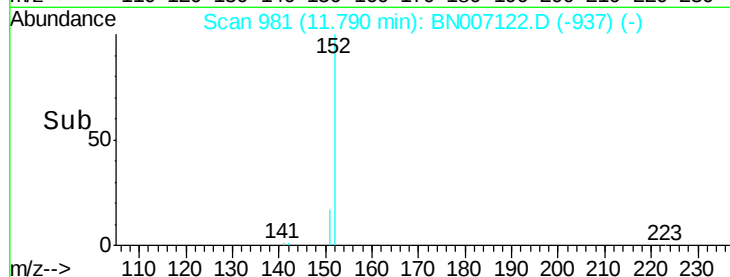
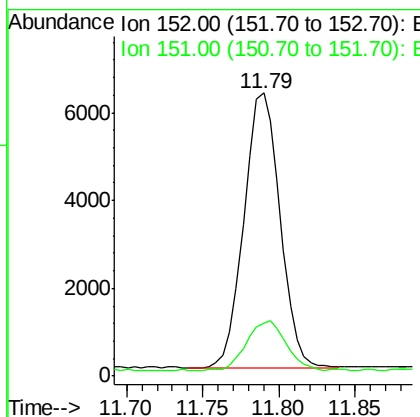
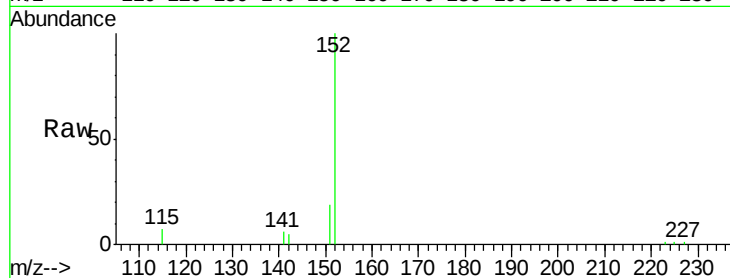
#10
2-Methylnaphthalene-d10
Concen: 0.143 ng
RT: 11.79 min Scan# 981
Delta R.T. -0.00 min
Lab File: BN007122.D
Acq: 13 Aug 2019 09:19

Instrument :
BNA_N
ClientSampleId :
EXT-035-SW103-080619

Tot Ion	Ratio	Lower	Upper
152	100		
151	19.6	15.5	23.3

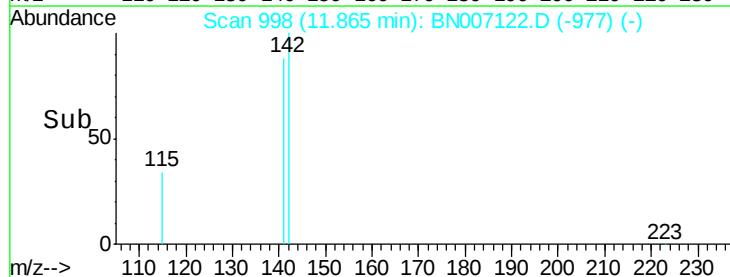
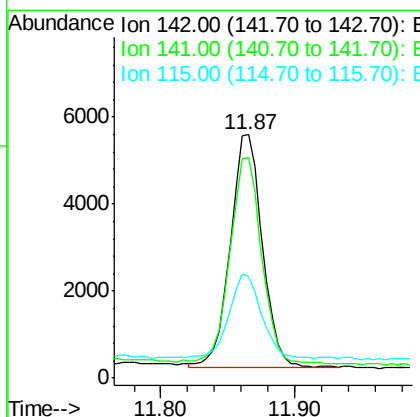
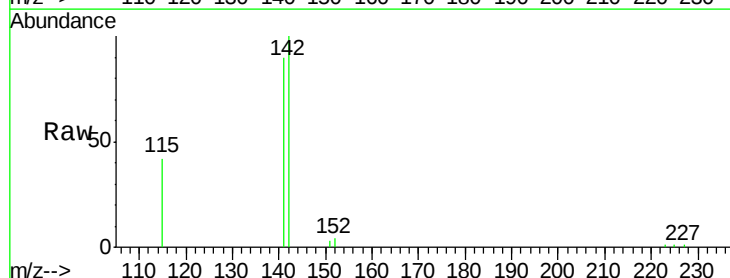
Manual Integrations
APPROVED

mohammad
8/14/2019 2:52:49 AM



#11
2-Methylnaphthalene
Concen: 0.115 ng
RT: 11.87 min Scan# 998
Delta R.T. -0.00 min
Lab File: BN007122.D
Acq: 13 Aug 2019 09:19

Tgt Ion	Ratio	Lower	Upper
142	100		
141	90.4	69.0	103.6
115	41.7	27.1	40.7#





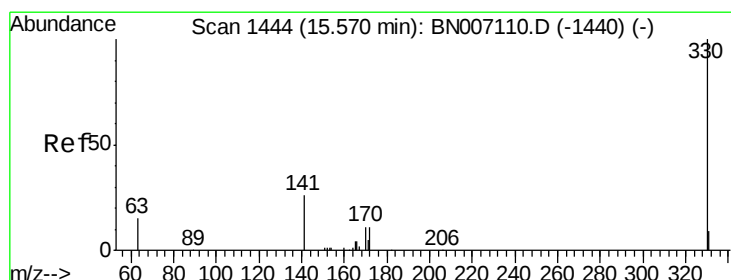
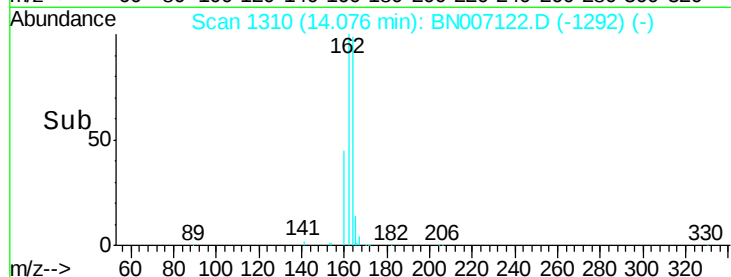
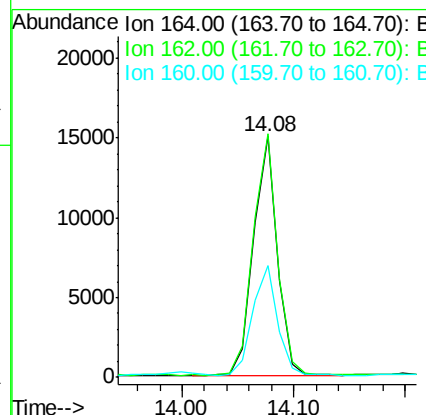
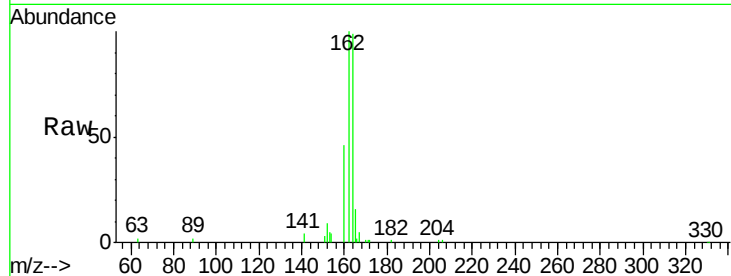
#12
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.08 min Scan# 1310
Delta R.T. -0.00 min
Lab File: BN007122.D
Acq: 13 Aug 2019 09:19

Instrument :
BNA_N
ClientSampleId :
EXT-035-SW103-080619

Tot Ion	Ratio	Lower	Upper
164	100		
162	101.2	82.2	123.4
160	46.6	38.3	57.5

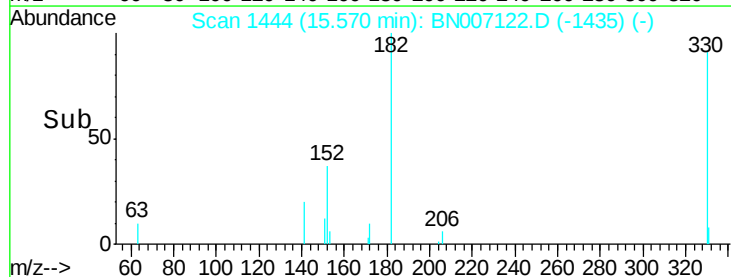
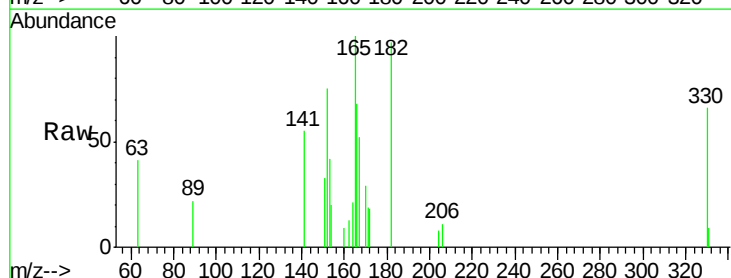
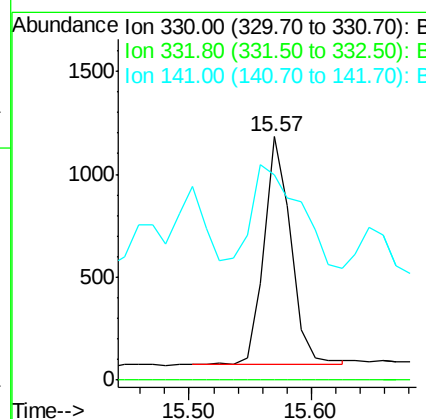
Manual Integrations
APPROVED

mohammad
8/14/2019 2:52:49 AM



#13
2,4,6-Tribromophenol
Concen: 0.144 ng
RT: 15.57 min Scan# 1444
Delta R.T. -0.00 min
Lab File: BN007122.D
Acq: 13 Aug 2019 09:19

Tgt Ion	Ratio	Lower	Upper
330	100		
332	0.0	0.0	0.0
141	80.0	33.6	50.4#





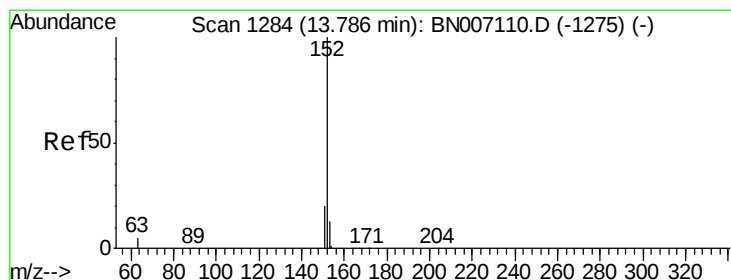
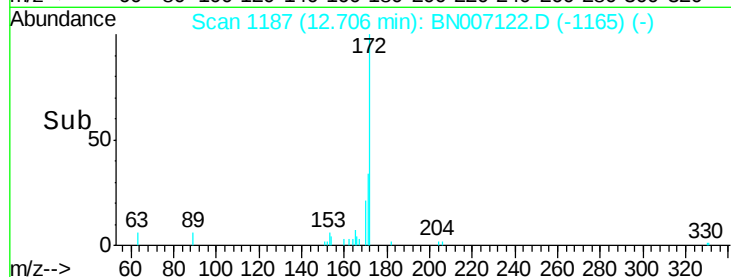
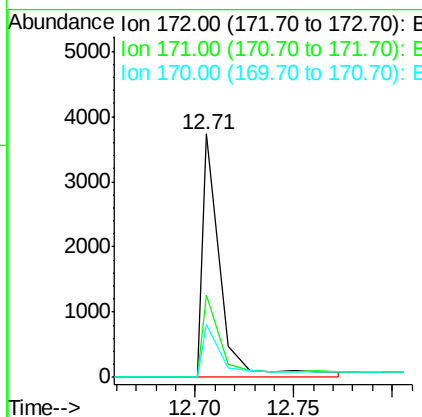
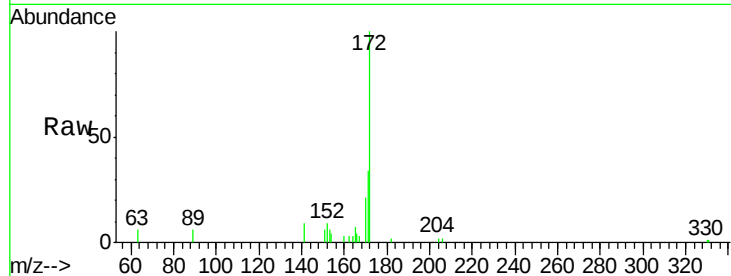
#14
2-Fluorobiphenyl
Concen: 0.083 ng
RT: 12.71 min Scan# 1187
Delta R.T. -0.00 min
Lab File: BN007122.D
Acq: 13 Aug 2019 09:19

Instrument :
BNA_N
ClientSampleId :
EXT-035-SW103-080619

Tot Ion	Ratio	Lower	Upper
172	100		
171	34.1	26.3	39.5
170	21.5	17.0	25.4

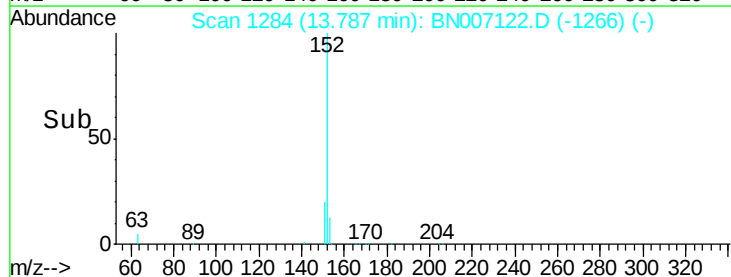
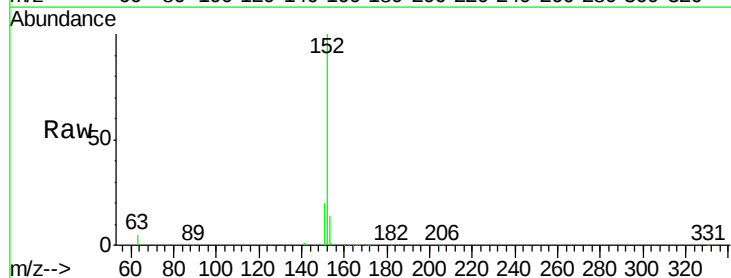
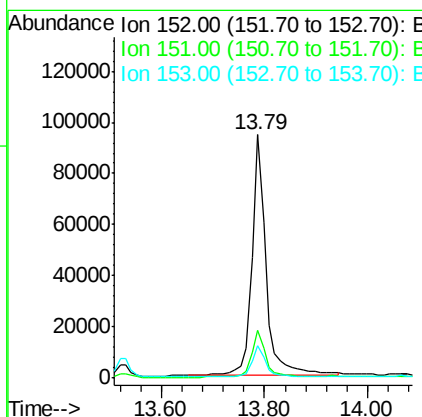
Manual Integrations
APPROVED

mohammad
8/14/2019 2:52:49 AM



#15
Acenaphthylene
Concen: 1.570 ng
RT: 13.79 min Scan# 1284
Delta R.T. -0.00 min
Lab File: BN007122.D
Acq: 13 Aug 2019 09:19

Tgt Ion	Ratio	Lower	Upper
152	100		
151	19.3	15.8	23.6
153	12.5	10.4	15.6





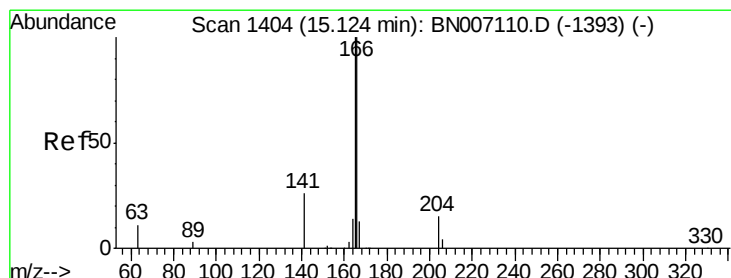
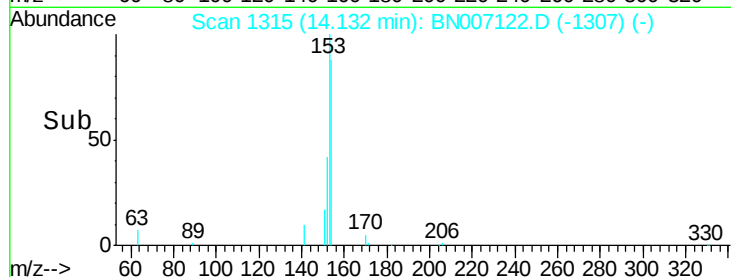
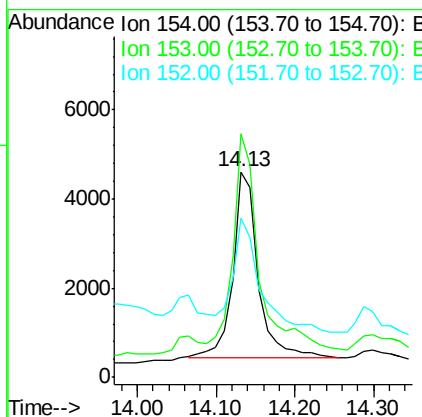
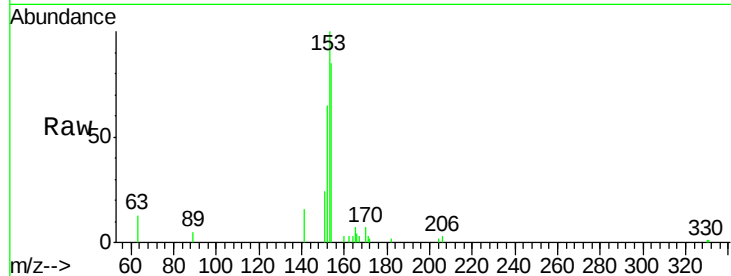
#16
Acenaphthene
Concen: 0.128 ng
RT: 14.13 min Scan# 1315
Delta R.T. -0.01 min
Lab File: BN007122.D
Acq: 13 Aug 2019 09:19

Instrument :
BNA_N
ClientSampleId :
EXT-035-SW103-080619

Tot Ion	Ratio	Lower	Upper
154	100		
153	117.6	89.5	134.3
152	67.1	44.8	67.2

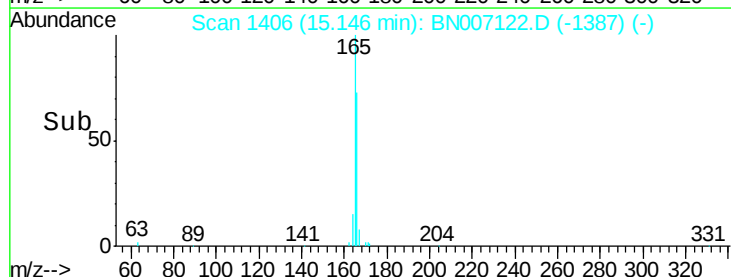
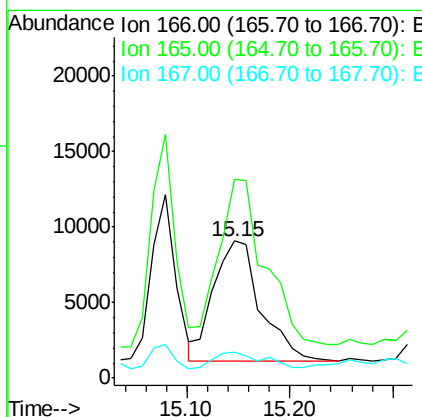
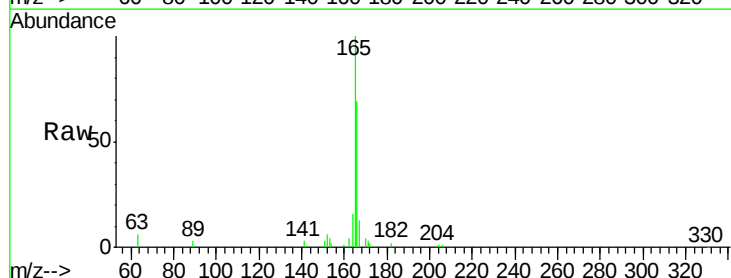
Manual Integrations
APPROVED

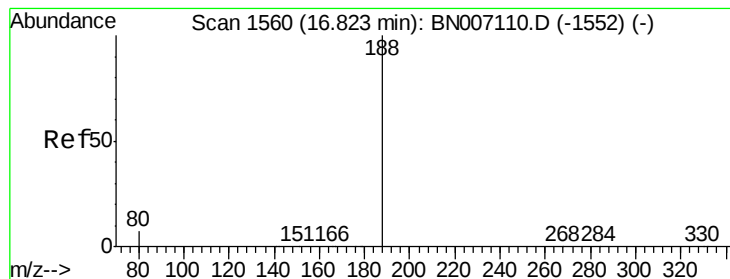
mohammad
8/14/2019 2:52:49 AM



#17
Fluorene
Concen: 0.226 ng
RT: 15.15 min Scan# 1406
Delta R.T. 0.01 min
Lab File: BN007122.D
Acq: 13 Aug 2019 09:19

Tgt Ion	Ratio	Lower	Upper
166	100		
165	139.1	77.9	116.9#
167	14.7	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: BN007122.D

Acq: 13 Aug 2019 09:19

Instrument :

BNA_N

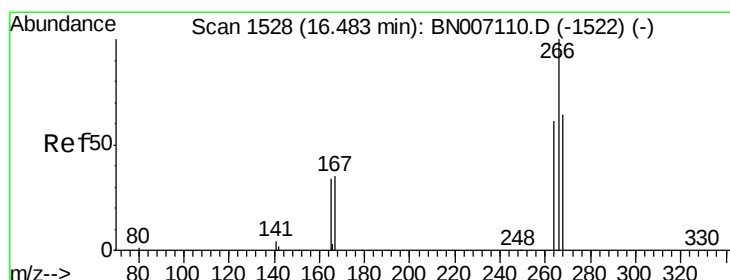
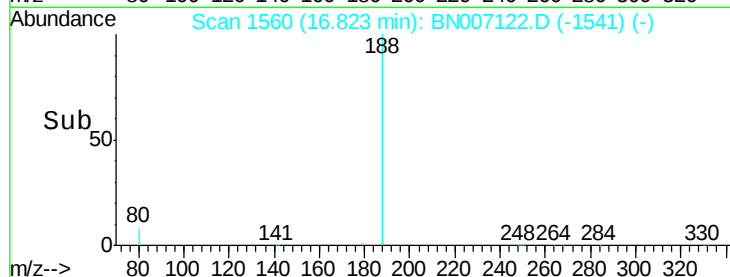
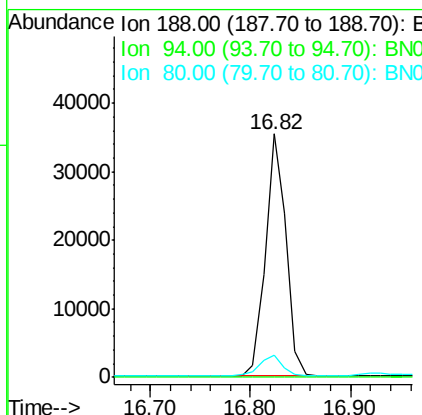
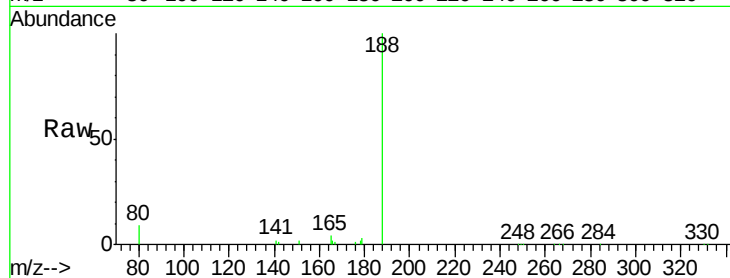
ClientSampleId :

EXT-035-SW103-080619

Tot Ion:	188	Resp:	50728
Ion Ratio	Lower	Upper	
188	100		
94	0.0	0.0	0.0
80	9.3	7.8	11.6

Manual Integrations
APPROVED

mohammad
8/14/2019 2:52:49 AM



#21

Pentachlorophenol

Concen: 0.041 ng

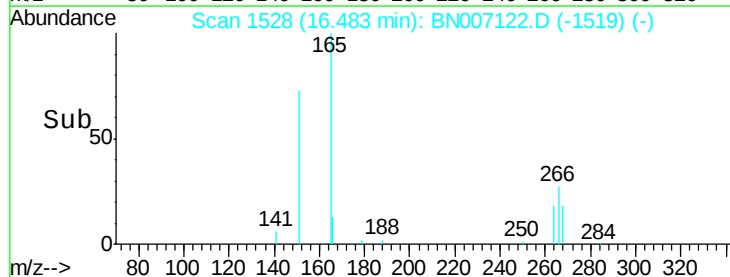
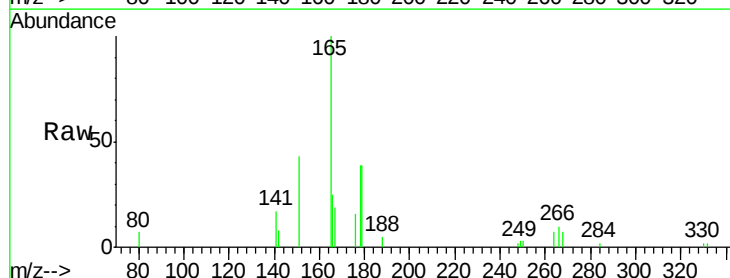
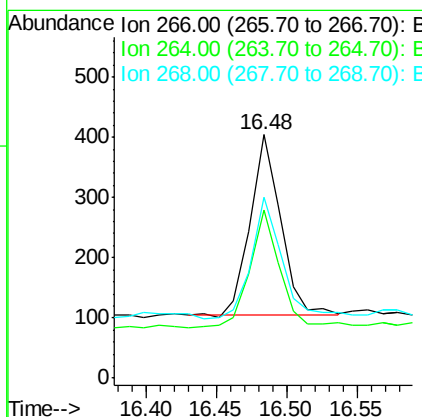
RT: 16.48 min Scan# 1528

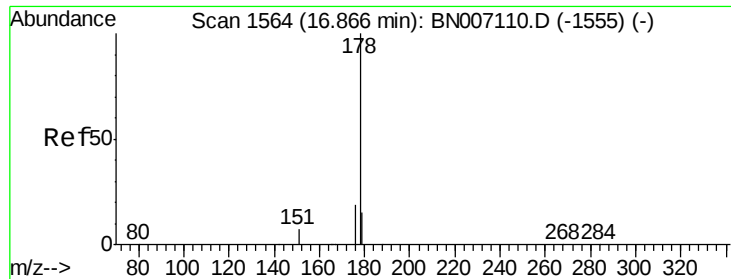
Delta R.T. -0.00 min

Lab File: BN007122.D

Acq: 13 Aug 2019 09:19

Tgt Ion:	266	Resp:	460
Ion Ratio	Lower	Upper	
266	100		
264	69.1	52.3	78.5
268	74.3	51.5	77.3





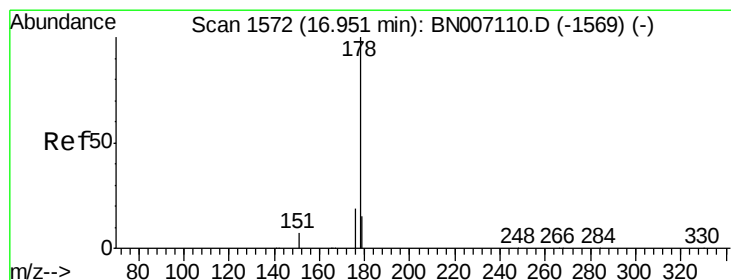
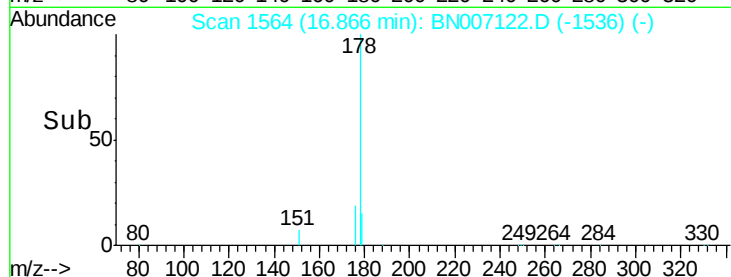
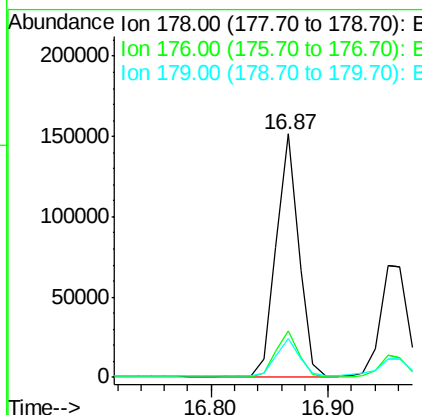
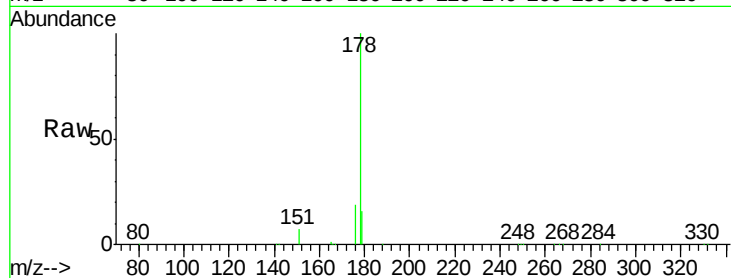
#22
Phenanthrene
Concen: 1.336 ng
RT: 16.87 min Scan# 1564
Delta R.T. -0.00 min
Lab File: BN007122.D
Acq: 13 Aug 2019 09:19

Instrument :
BNA_N
ClientSampleId :
EXT-035-SW103-080619

Tot Ion	Ratio	Lower	Upper
178	100		
176	19.0	15.2	22.8
179	16.2	12.3	18.5

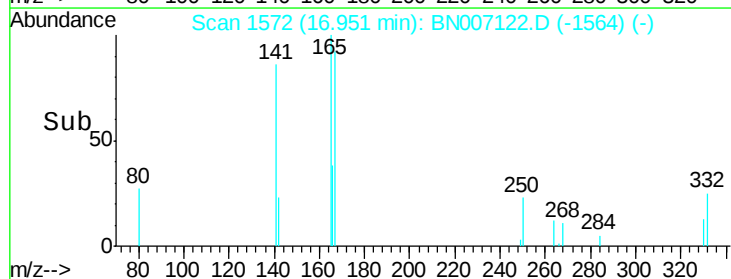
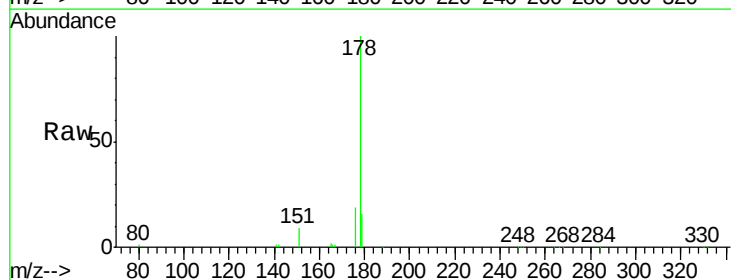
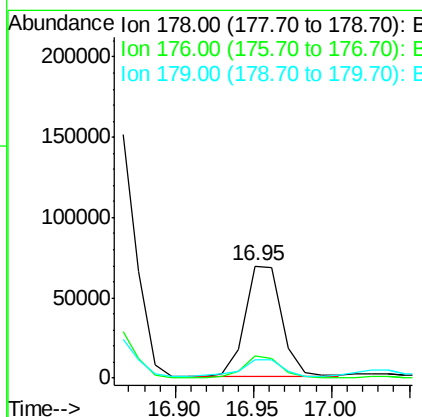
Manual Integrations
APPROVED

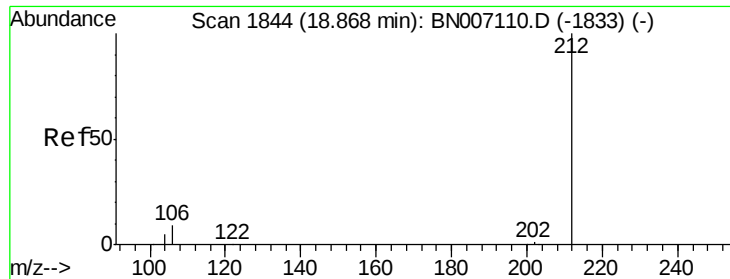
mohammad
8/14/2019 2:52:49 AM



#23
Anthracene
Concen: 0.806 ng
RT: 16.95 min Scan# 1572
Delta R.T. -0.01 min
Lab File: BN007122.D
Acq: 13 Aug 2019 09:19

Tgt Ion	Ratio	Lower	Upper
178	100		
176	18.3	14.6	21.8
179	16.7	12.5	18.7





#24

Fluoranthene-d10

Concen: 0.143 ng

RT: 18.87 min Scan# 1844

Delta R.T. -0.00 min

Lab File: BN007122.D

Acq: 13 Aug 2019 09:19

Instrument :

BNA_N

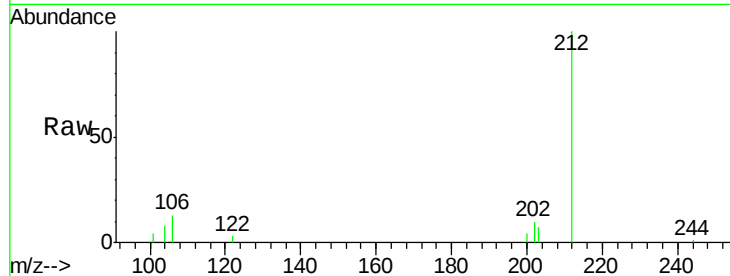
ClientSampleId :

EXT-035-SW103-080619

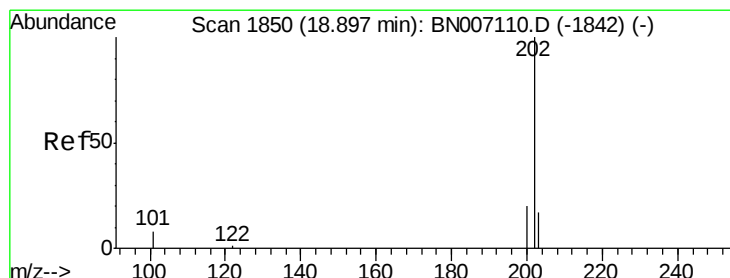
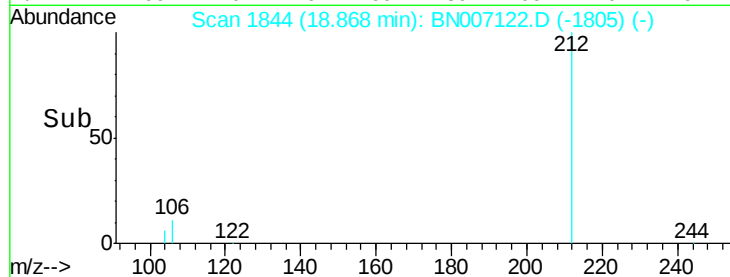
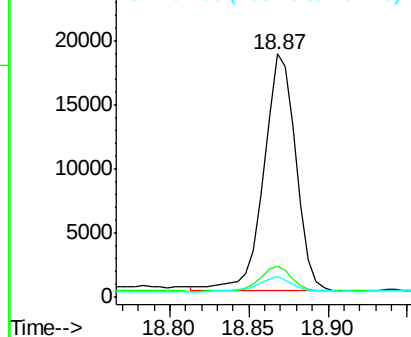
Tot Ion:	212	Resp:	25768
Ion Ratio	Lower	Upper	
212	100		
106	10.6	8.2	12.2
104	7.4	4.5	6.7#

Manual Integrations
APPROVED

mohammad
8/14/2019 2:52:49 AM



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: 3.297 ng

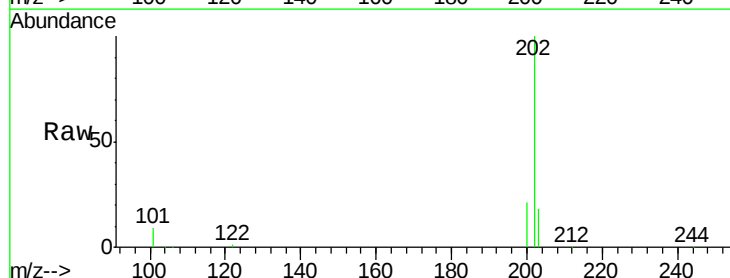
RT: 18.90 min Scan# 1850

Delta R.T. -0.00 min

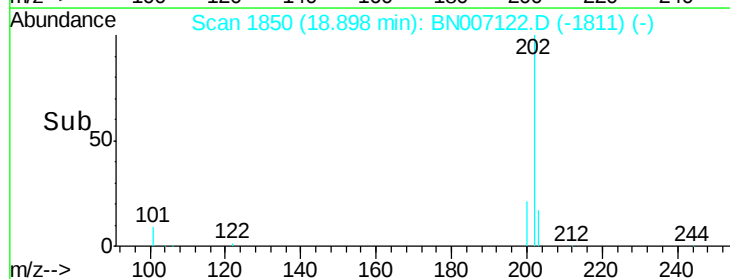
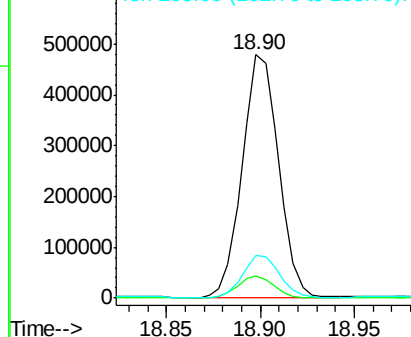
Lab File: BN007122.D

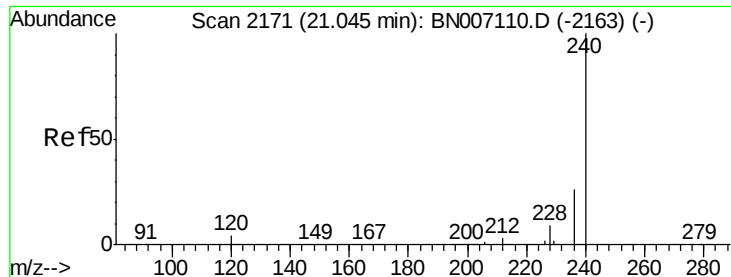
Acq: 13 Aug 2019 09:19

Tgt Ion:	202	Resp:	641240
Ion Ratio	Lower	Upper	
202	100		
101	8.9	7.0	10.4
203	17.6	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





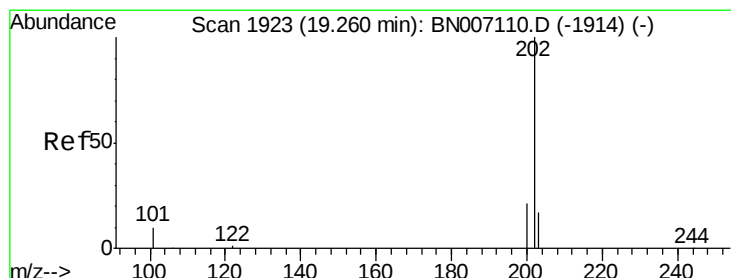
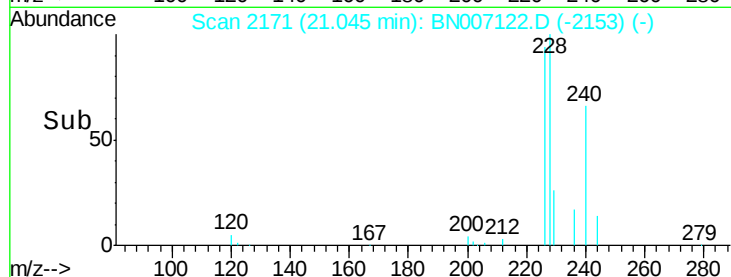
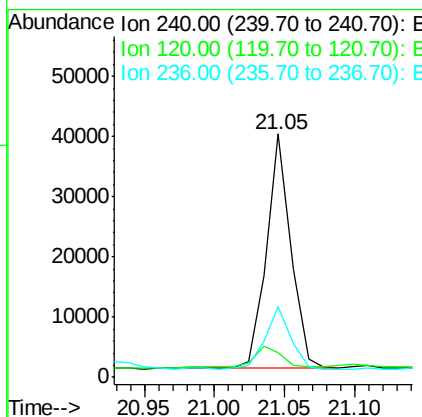
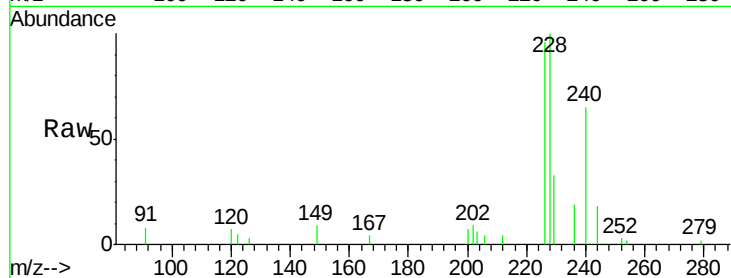
#26
 Chrysene-d12
 Concen: 0.400 ng
 RT: 21.05 min Scan# 2171
 Delta R.T. -0.01 min
 Lab File: BN007122.D
 Acq: 13 Aug 2019 09:19

Instrument :
 BNA_N
 ClientSampleId :
 EXT-035-SW103-080619

Tot Ion	Ratio	Lower	Upper
240	100		
120	10.4	4.0	6.0#
236	29.2	21.3	31.9

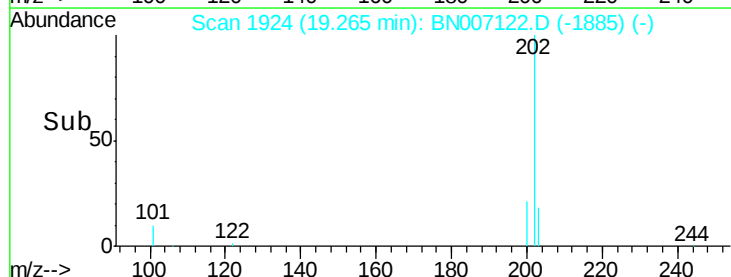
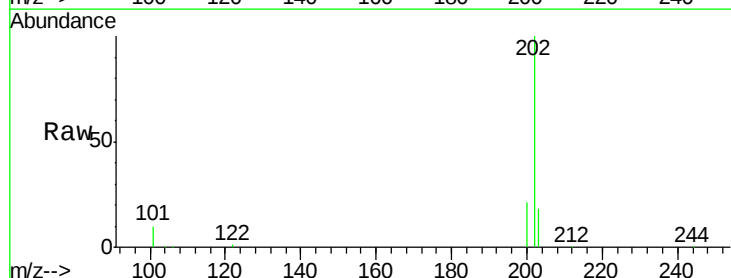
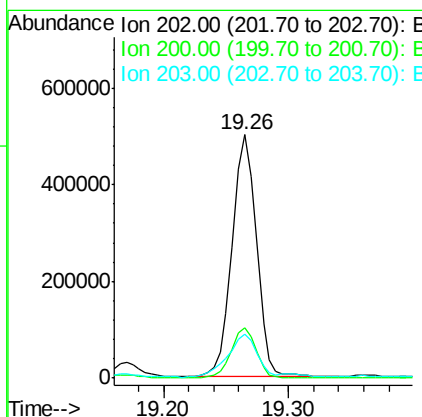
Manual Integrations
 APPROVED

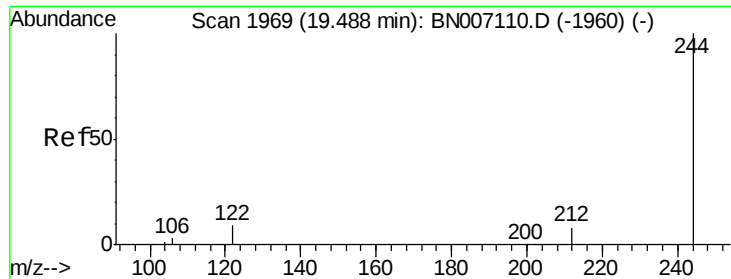
mohammad
 8/14/2019 2:52:49 AM



#27
 Pyrene
 Concen: 4.048 ng
 RT: 19.26 min Scan# 1924
 Delta R.T. -0.00 min
 Lab File: BN007122.D
 Acq: 13 Aug 2019 09:19

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





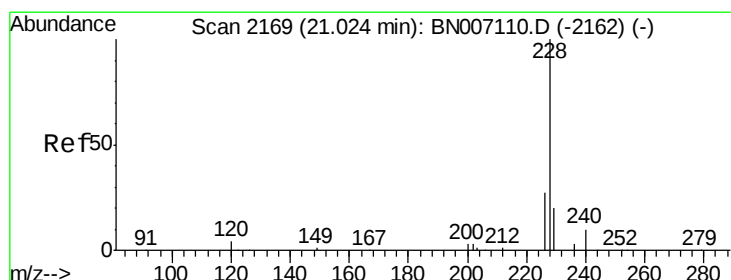
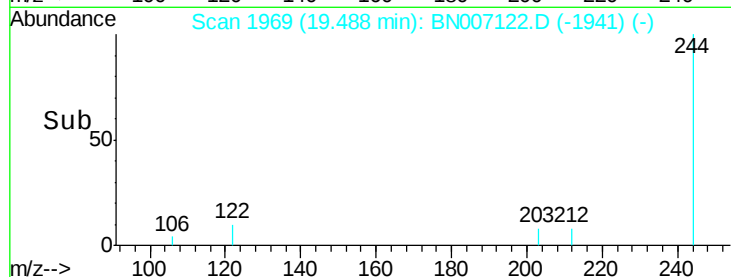
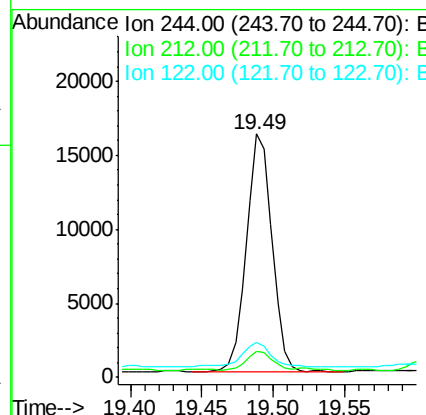
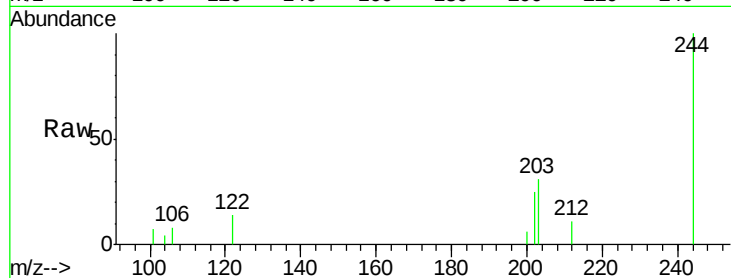
#28
 Terphenyl-d14
 Concen: 0.155 ng
 RT: 19.49 min Scan# 1969
 Delta R.T. -0.01 min
 Lab File: BN007122.D
 Acq: 13 Aug 2019 09:19

Instrument :
 BNA_N
 ClientSampleId :
 EXT-035-SW103-080619

Tot Ion	Ratio	Lower	Upper
244	100		
212	10.6	6.2	9.2#
122	14.4	7.4	11.2#

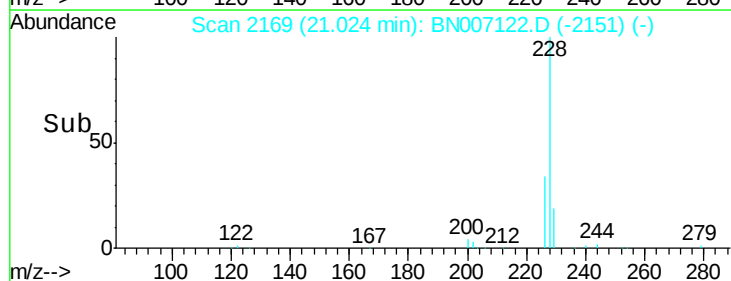
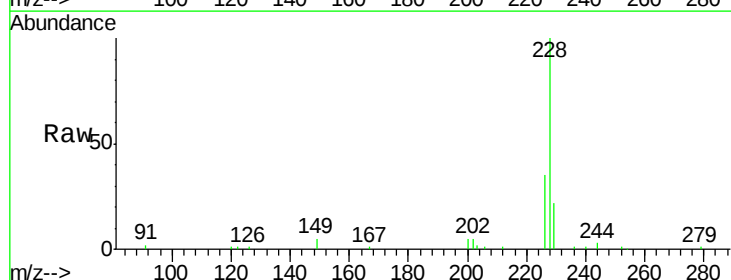
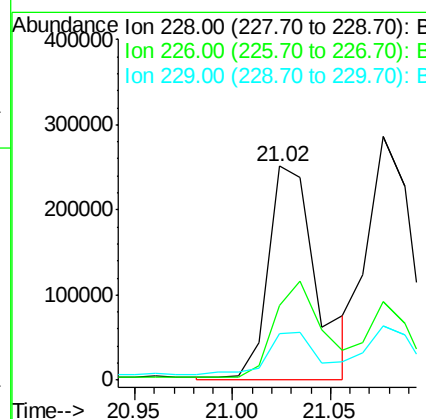
Manual Integrations
 APPROVED

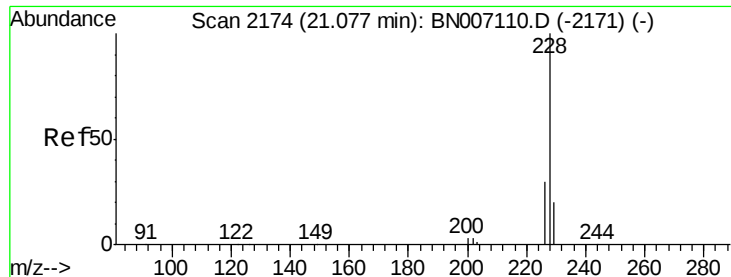
mohammad
 8/14/2019 2:52:49 AM



#29
 Benzo(a)anthracene
 Concen: 2.497 ng m
 RT: 21.02 min Scan# 2169
 Delta R.T. -0.01 min
 Lab File: BN007122.D
 Acq: 13 Aug 2019 09:19

Tgt Ion	Ratio	Lower	Upper
228	100		
226	34.9	21.8	32.6#
229	21.8	15.6	23.4





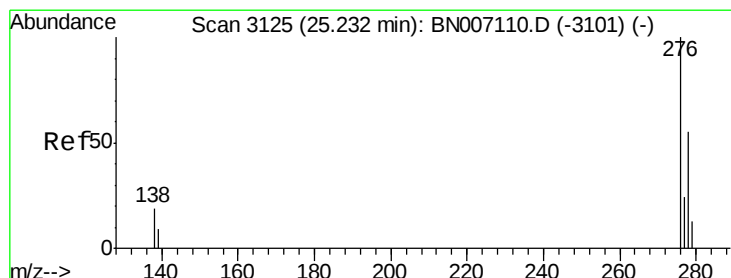
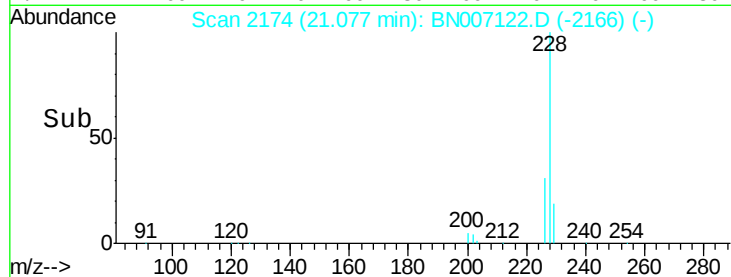
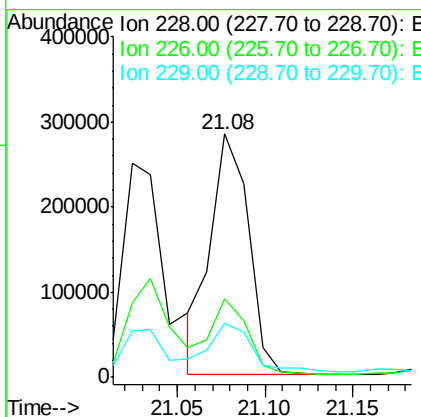
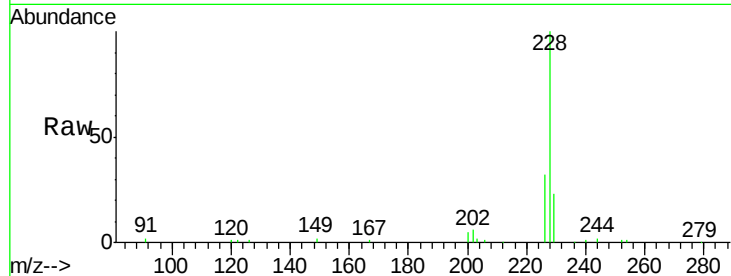
#30
Chrysene
Concen: 2.499 ng
RT: 21.08 min Scan# 2174
Delta R.T. -0.01 min
Lab File: BN007122.D
Acq: 13 Aug 2019 09:19

Instrument :
BNA_N
ClientSampleId :
EXT-035-SW103-080619

Tot Ion:	228	Resp:	422423
Ion Ratio	Lower	Upper	
228	100		
226	32.1	23.8	35.6
229	22.5	15.7	23.5

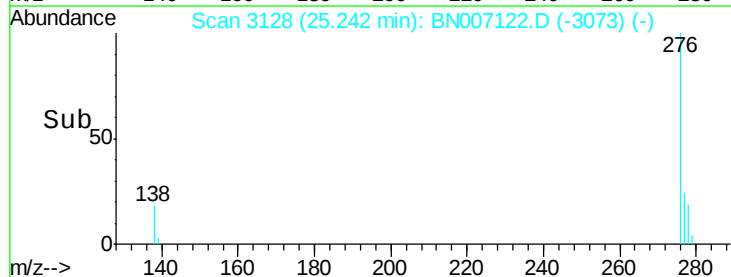
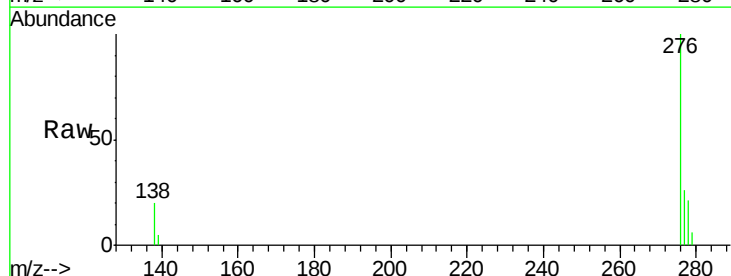
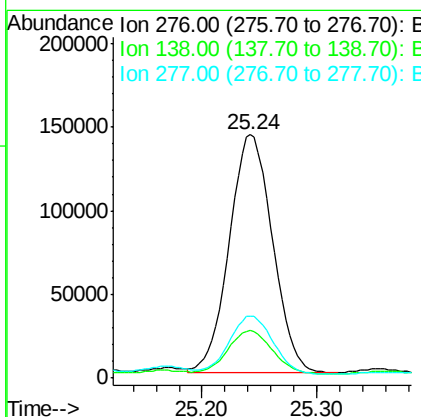
Manual Integrations
APPROVED

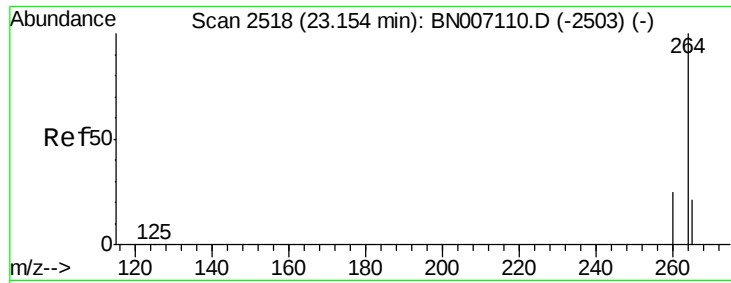
mohammad
8/14/2019 2:52:49 AM



#31
Indeno(1,2,3-cd)pyrene
Concen: 1.994 ng
RT: 25.24 min Scan# 3128
Delta R.T. -0.01 min
Lab File: BN007122.D
Acq: 13 Aug 2019 09:19

Tgt Ion:	276	Resp:	371397
Ion Ratio	Lower	Upper	
276	100		
138	18.8	16.0	24.0
277	24.8	19.9	29.9





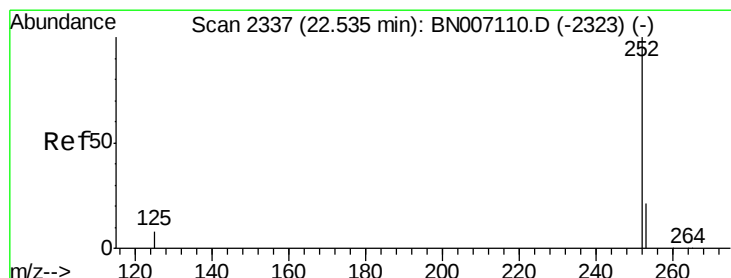
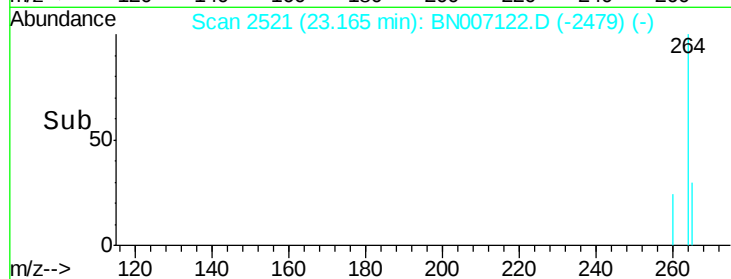
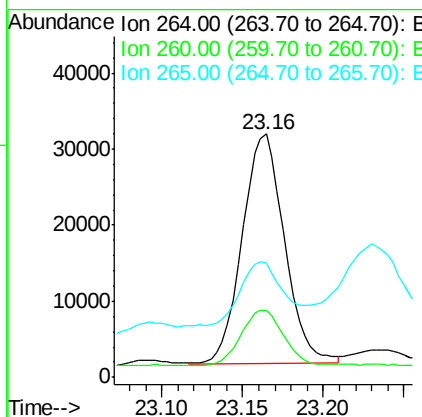
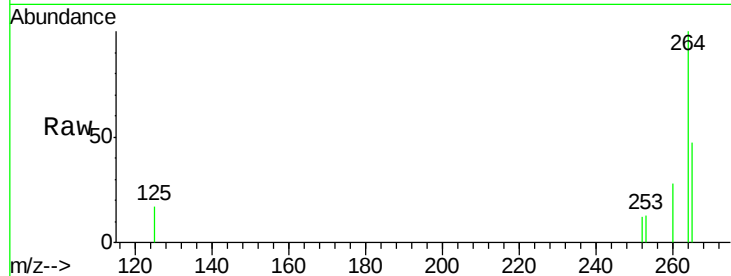
#32
 Pervlene-d12
 Concen: 0.400 ng
 RT: 23.16 min Scan# 2521
 Delta R.T. -0.01 min
 Lab File: BN007122.D
 Acq: 13 Aug 2019 09:19

Instrument :
 BNA_N
 ClientSampleId :
 EXT-035-SW103-080619

Tot Ion	Ratio	Lower	Upper
264	100		
260	27.7	19.8	29.8
265	47.0	26.2	39.4

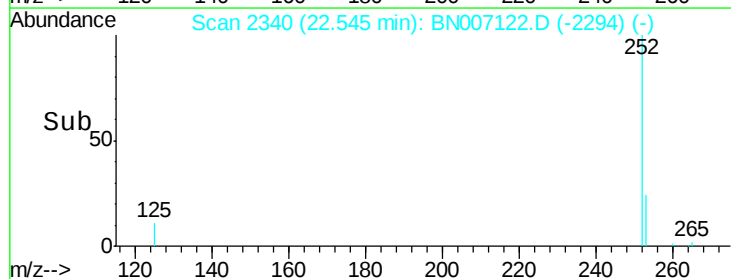
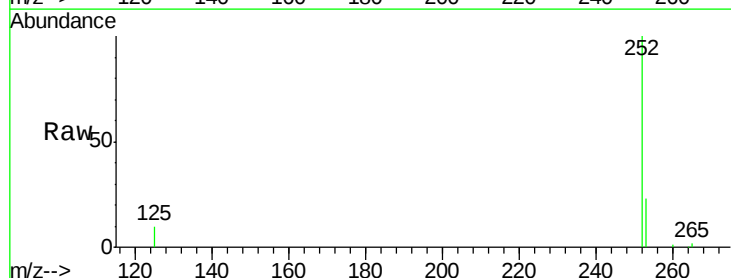
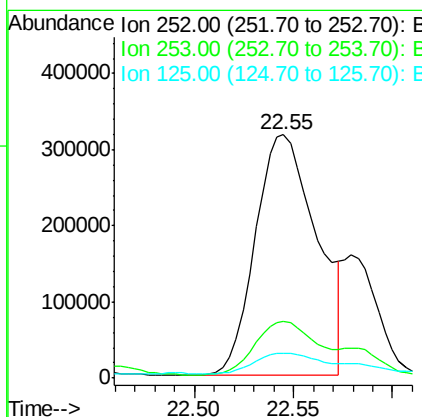
Manual Integrations
 APPROVED

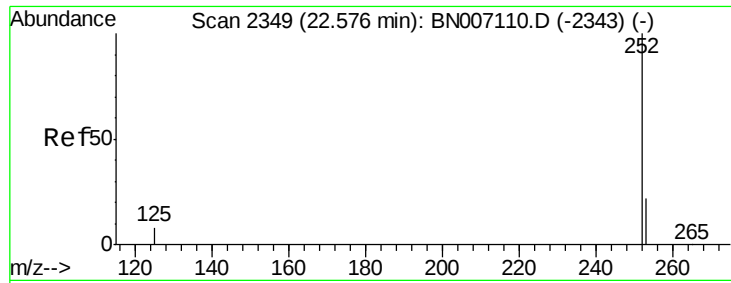
mohammad
 8/14/2019 2:52:49 AM



#33
 Benzo(b)fluoranthene
 Concen: 3.633 ng
 RT: 22.55 min Scan# 2340
 Delta R.T. -0.00 min
 Lab File: BN007122.D
 Acq: 13 Aug 2019 09:19

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.3	18.2	27.2
125	10.4	7.4	11.0





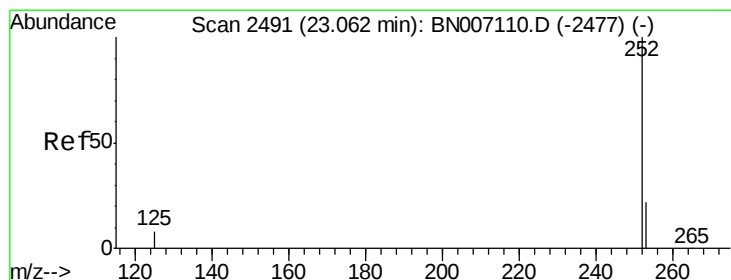
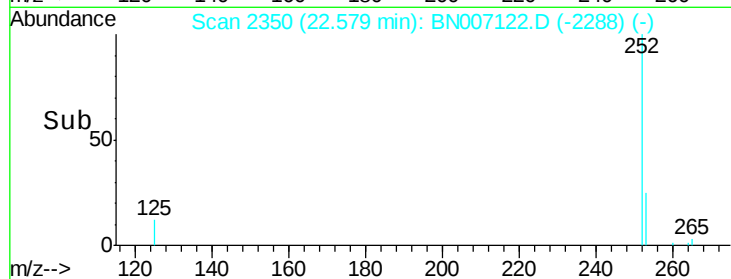
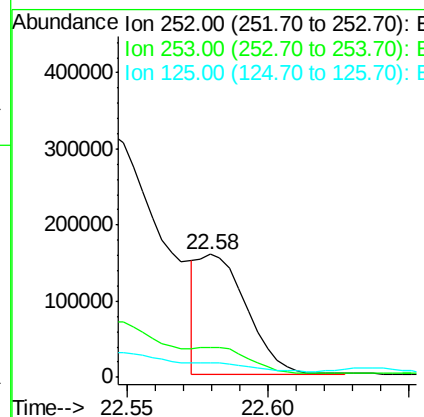
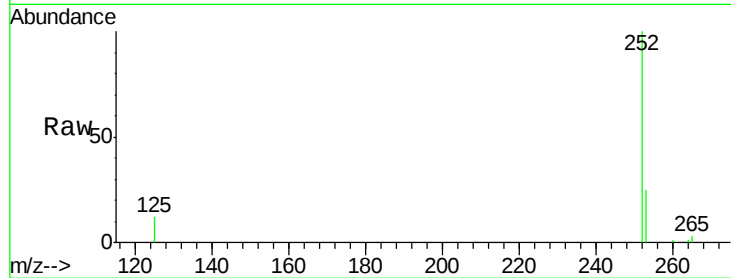
#34
Benzo(k)fluoranthene
Concen: 1.030 ng
RT: 22.58 min Scan# 2350
Delta R.T. -0.01 min
Lab File: BN007122.D
Acq: 13 Aug 2019 09:19

Instrument :
BNA_N
ClientSampleId :
EXT-035-SW103-080619

Tot Ion	Ratio	Lower	Upper
252	100		
253	24.7	18.1	27.1
125	11.7	7.4	11.0

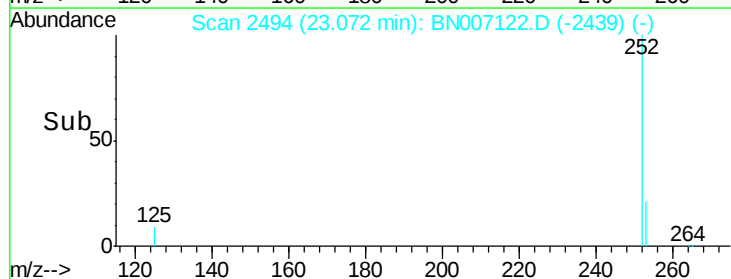
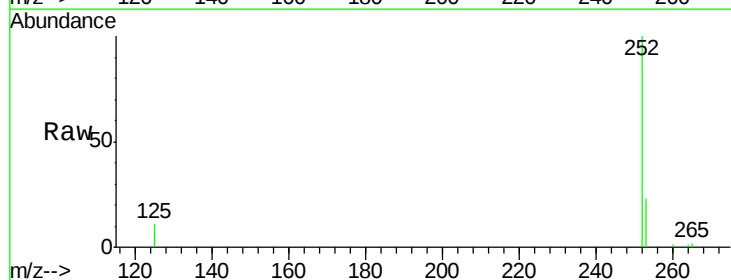
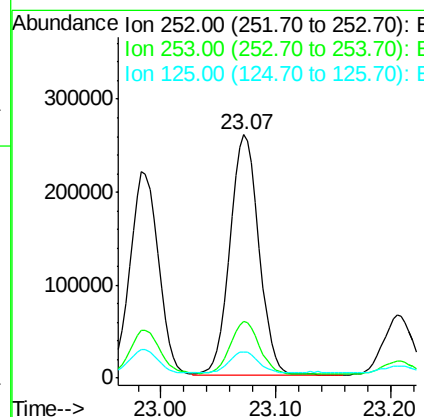
Manual Integrations
APPROVED

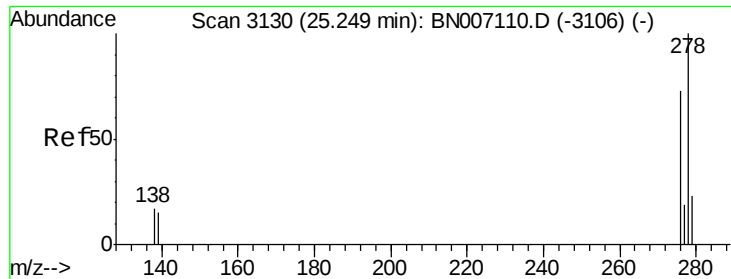
mohammad
8/14/2019 2:52:49 AM



#35
Benzo(a)pyrene
Concen: 2.669 ng
RT: 23.07 min Scan# 2494
Delta R.T. -0.01 min
Lab File: BN007122.D
Acq: 13 Aug 2019 09:19

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.1	18.5	27.7
125	10.9	8.2	12.4





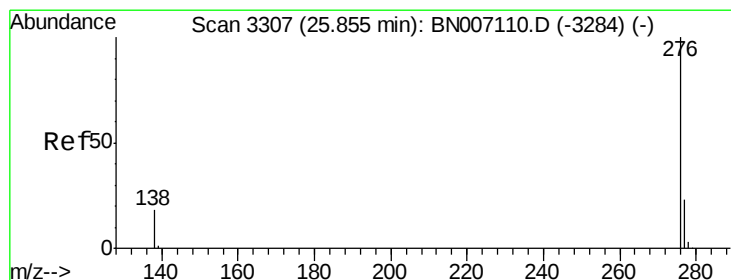
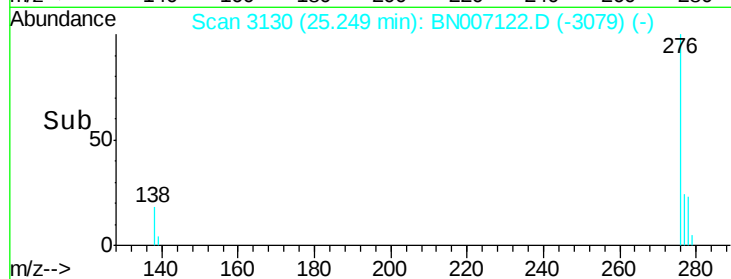
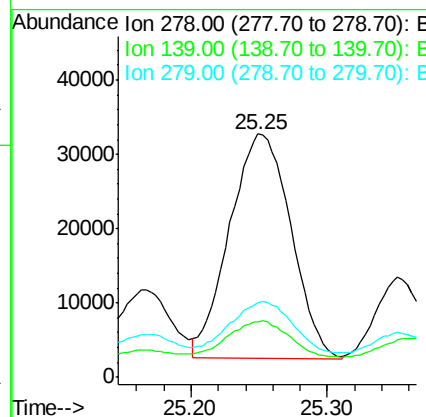
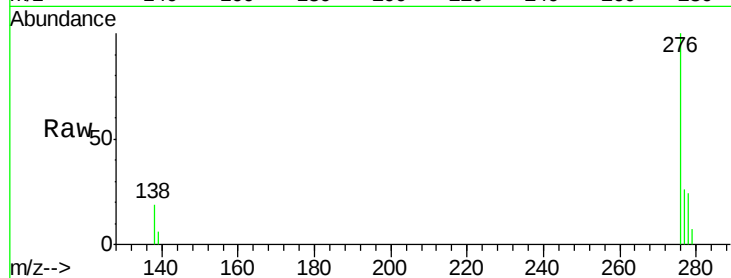
#36
Dibenzo(a,h)anthracene
Concen: 0.557 ng
RT: 25.25 min Scan# 3130
Delta R.T. -0.02 min
Lab File: BN007122.D
Acq: 13 Aug 2019 09:19

Instrument :
BNA_N
ClientSampleId :
EXT-035-SW103-080619

Tot Ion	Ratio	Lower	Upper
278	100		
139	23.0	11.3	16.9#
279	30.6	19.3	28.9#

Manual Integrations
APPROVED

mohammad
8/14/2019 2:52:49 AM



#37
Benzo(g,h,i)perylene
Concen: 2.292 ng
RT: 25.88 min Scan# 3313
Delta R.T. -0.00 min
Lab File: BN007122.D
Acq: 13 Aug 2019 09:19

Tgt Ion	Ratio	Lower	Upper
276	100		
277	25.0	19.8	29.8
138	19.9	14.6	22.0

