

Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN081219\
 Data File : BN007117.D
 Acq On : 13 Aug 2019 06:19
 Operator : HP/JU
 Sample : K4144-07
 Misc :
 ALS Vial : 26 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 EXT-008-SW120-073119

Manual Integrations
 APPROVED

mohammad
 8/14/2019 2:52:32 AM

Quant Time: Aug 13 08:33:42 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	9774	0.40	ng	0.00
6) Naphthalene-d8	10.19	136	38439	0.40	ng	0.00
12) Acenaphthene-d10	14.08	164	22313	0.40	ng	0.00
18) Phenanthrene-d10	16.82	188	51487	0.40	ng	0.00
26) Chrysene-d12	21.05	240	49398	0.40	ng	-0.01
32) Perylene-d12	23.16	264	54325	0.40	ng	-0.01

System Monitoring Compounds

3) 2-Fluorophenol	5.06	112	5910	0.25	ng	0.00
4) Phenol-d6	6.62	99	8425	0.29	ng	0.00
7) Nitrobenzene-d5	8.56	82	7103	0.23	ng	0.00
10) 2-Methylnaphthalene-d10	11.79	152	15454	0.22	ng	0.00
13) 2,4,6-Tribromophenol	15.57	330	2564	0.21	ng	0.00
14) 2-Fluorobiphenyl	12.71	172	4079	0.13	ng	0.00
24) Fluoranthene-d10	18.87	212	36754	0.20	ng	0.00
28) Terphenyl-d14	19.49	244	28120	0.21	ng	-0.01

Target Compounds

						Qvalue
8) Naphthalene	10.24	128	5638	0.052	ng	# 91
11) 2-Methylnaphthalene	11.87	142	4524	0.059	ng	# 90
15) Acenaphthylene	13.79	152	38510	0.330	ng	99
16) Acenaphthene	14.13	154	2529	0.034	ng	92
17) Fluorene	15.13	166	5759	0.052	ng	# 75
22) Phenanthrene	16.87	178	107010	0.694	ng	100
23) Anthracene	16.95	178	36558	0.259	ng	98
25) Fluoranthene	18.90	202	354240	1.795	ng	99
27) Pyrene	19.26	202	333593	1.926	ng	96
29) Benzo(a)anthracene	21.02	228	189999	1.052	ng	92
30) Chrysene	21.08	228	233927	1.333	ng	97
31) Indeno(1,2,3-cd)pyrene	25.23	276	170585	0.882	ng	99
33) Benzo(b)fluoranthene	22.54	252	331024	1.777	ng	# 97
34) Benzo(k)fluoranthene	22.58	252	104128m	0.566	ng	
35) Benzo(a)pyrene	23.07	252	205061	1.214	ng	# 97
36) Dibenzo(a,h)anthracene	25.24	278	43099	0.256	ng	# 71
37) Benzo(a,h,i)perylene	25.86	276	178224	1.028	ng	97

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

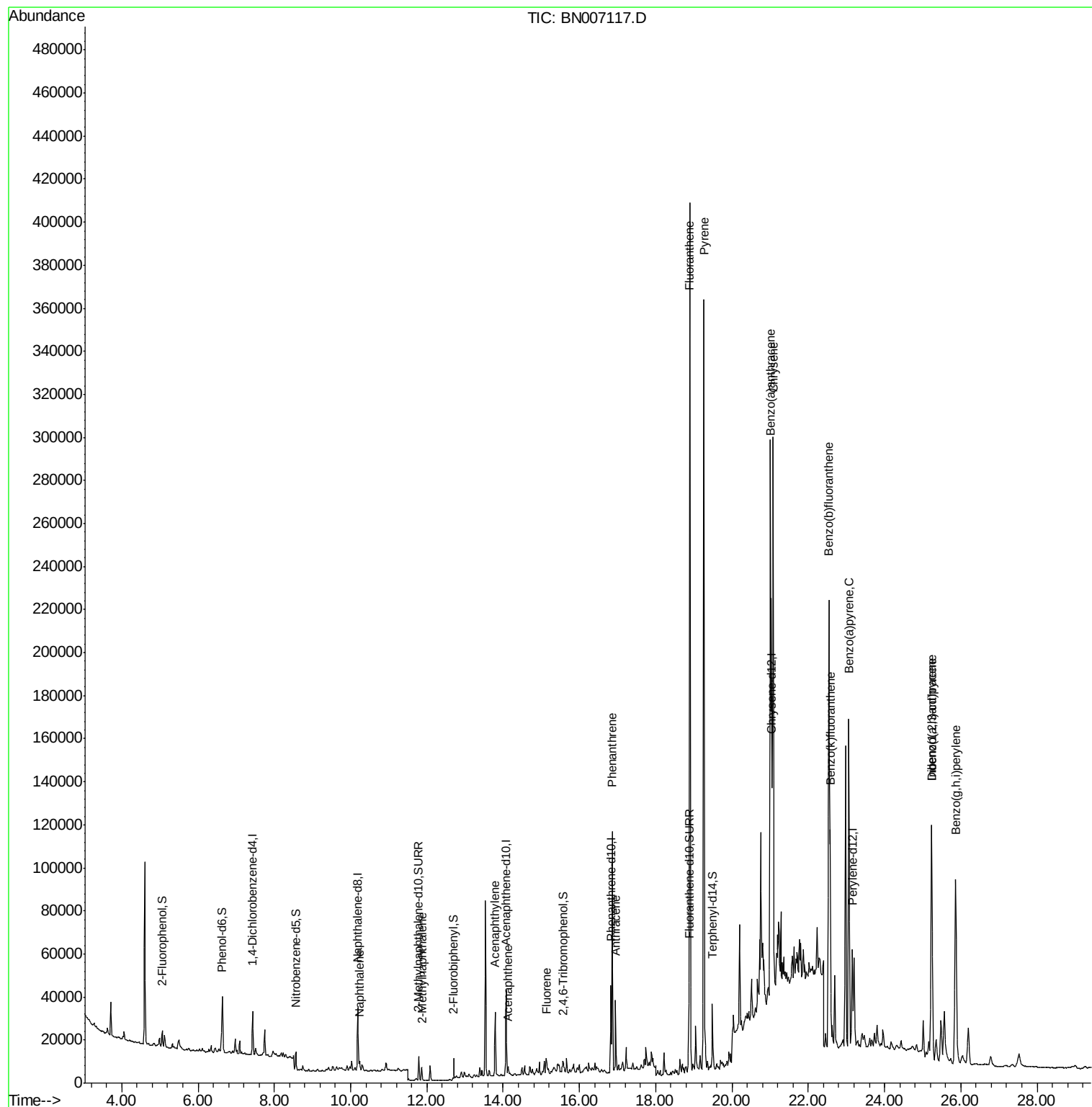
Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN081219\
Data File : BN007117.D
Acq On : 13 Aug 2019 06:19
Operator : HP/JU
Sample : K4144-07
Misc :
ALS Vial : 26 Sample Multiplier: 1

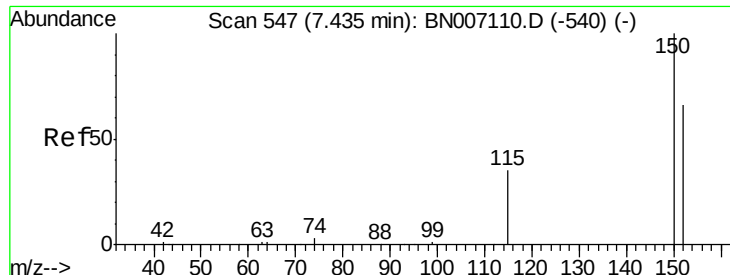
Instrument :
BNA_N
ClientSampleId :
EXT-008-SW120-073119

Manual Integrations
APPROVED

mohammad
8/14/2019 2:52:32 AM

Quant Time: Aug 13 08:33:42 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





#1

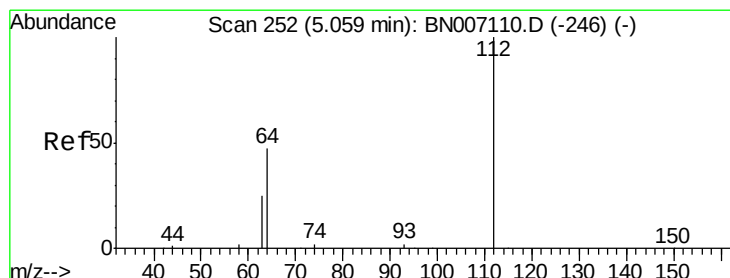
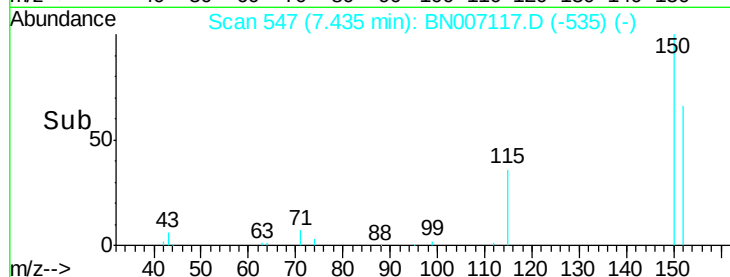
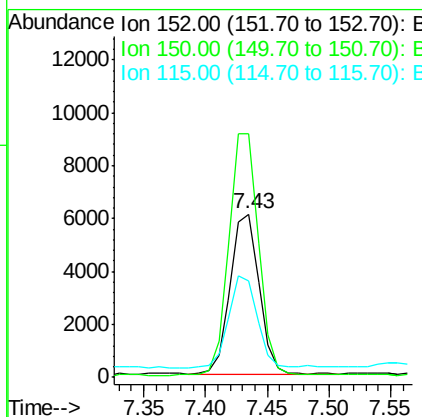
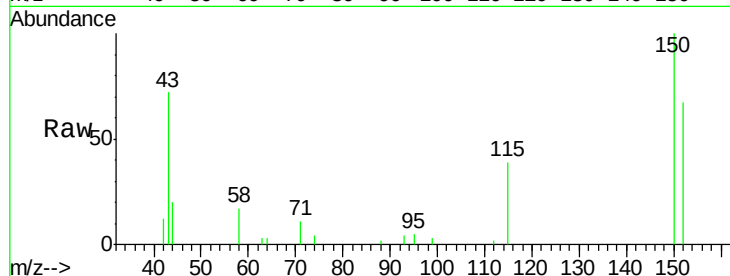
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.43 min Scan# 547
Delta R.T. -0.00 min
Lab File: BN007117.D
Acq: 13 Aug 2019 06:19

Instrument :
BNA_N
ClientSampleId :
EXT-008-SW120-073119

Tot Ion	Ratio	Lower	Upper
152	100		
150	149.0	121.7	182.5
115	58.8	46.2	69.4

Manual Integrations
APPROVED

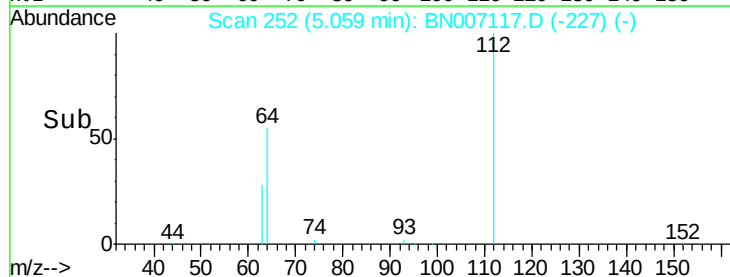
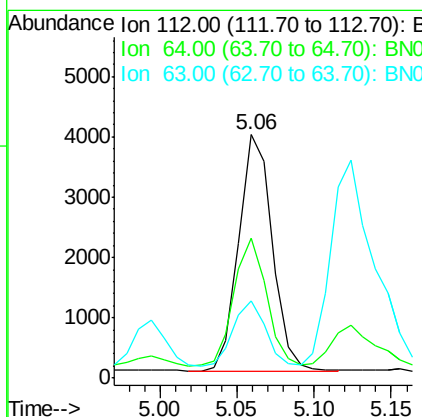
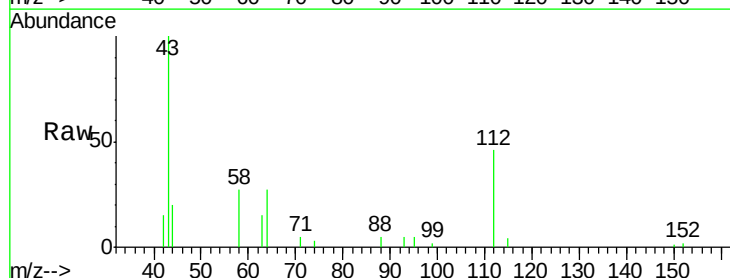
mohammad
8/14/2019 2:52:32 AM

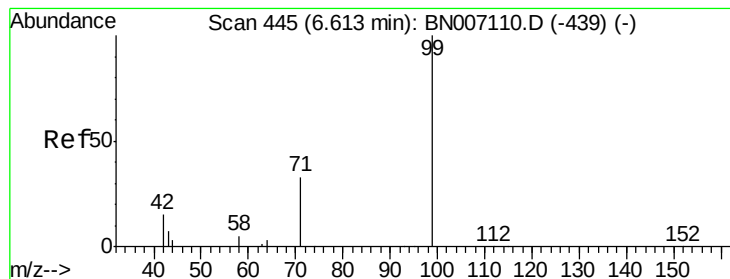


#3

2-Fluorophenol
Concen: 0.252 ng
RT: 5.06 min Scan# 252
Delta R.T. -0.00 min
Lab File: BN007117.D
Acq: 13 Aug 2019 06:19

Tgt Ion	Ratio	Lower	Upper
112	100		
64	52.5	42.6	63.8
63	27.5	22.2	33.2





#4

Phenol-d6

Concen: 0.290 ng

RT: 6.62 min Scan# 446

Delta R.T. 0.01 min

Lab File: BN007117.D

Acq: 13 Aug 2019 06:19

Instrument :

BNA_N

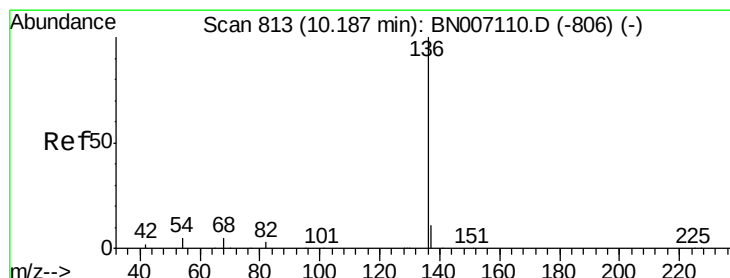
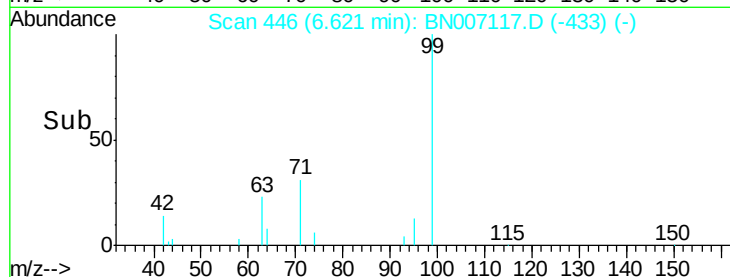
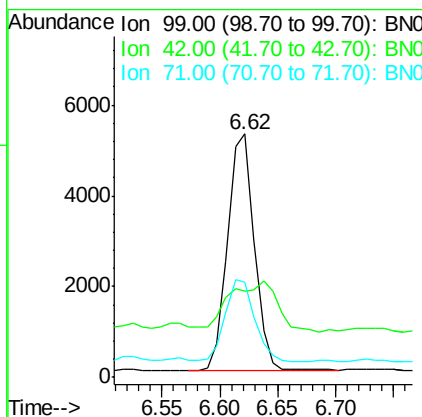
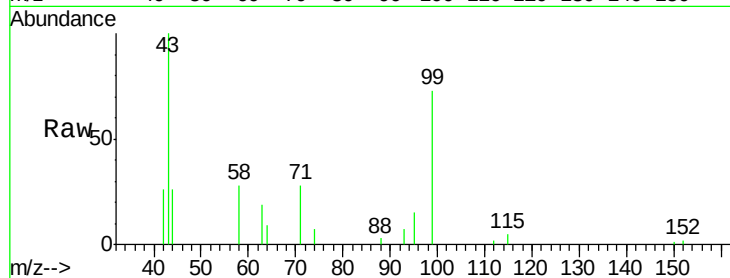
ClientSampleId :

EXT-008-SW120-073119

Tot Ion:	99	Resp:	8425
Ion Ratio	Lower	Upper	
99	100		
42	0.0	15.8	23.6#
71	37.9	27.0	40.4

Manual Integrations
APPROVED

mohammad
8/14/2019 2:52:32 AM



#6

Naphthalene-d8

Concen: 0.400 ng

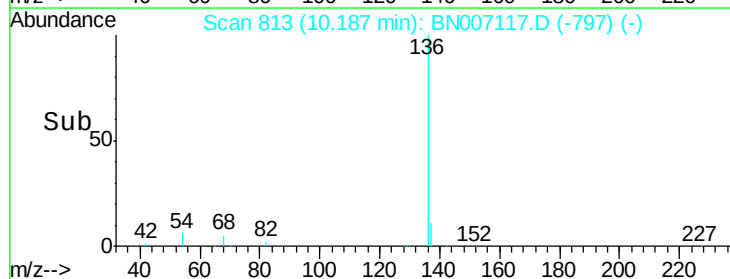
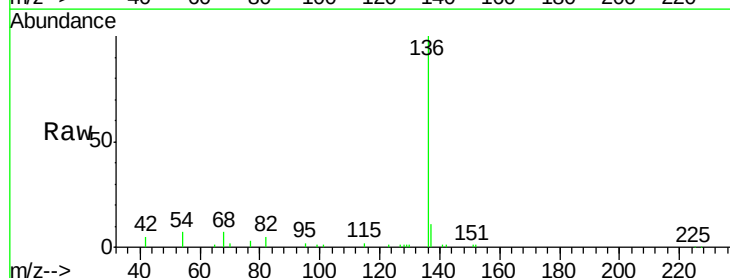
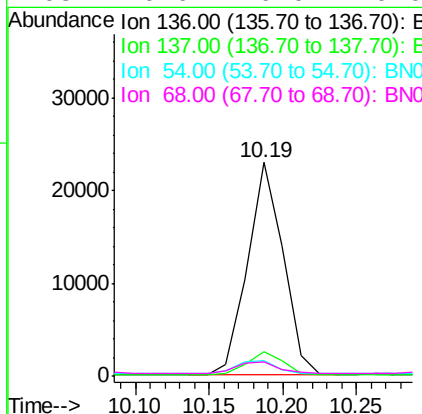
RT: 10.19 min Scan# 813

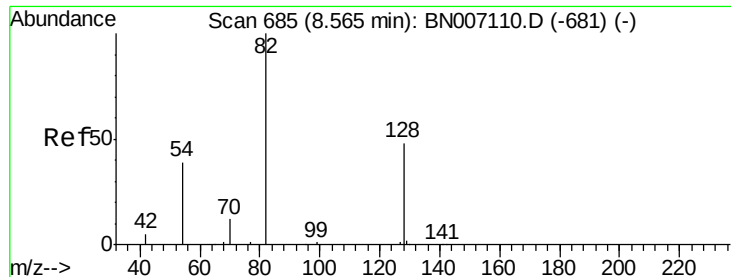
Delta R.T. -0.00 min

Lab File: BN007117.D

Acq: 13 Aug 2019 06:19

Tgt Ion:	136	Resp:	38439
Ion Ratio	Lower	Upper	
136	100		
137	11.5	9.4	14.0
54	6.9	6.6	9.8
68	6.6	6.0	9.0





#7

Nitrobenzene-d5

Concen: 0.229 ng

RT: 8.56 min Scan# 685

Delta R.T. -0.00 min

Lab File: BN007117.D

Acq: 13 Aug 2019 06:19

Instrument :

BNA_N

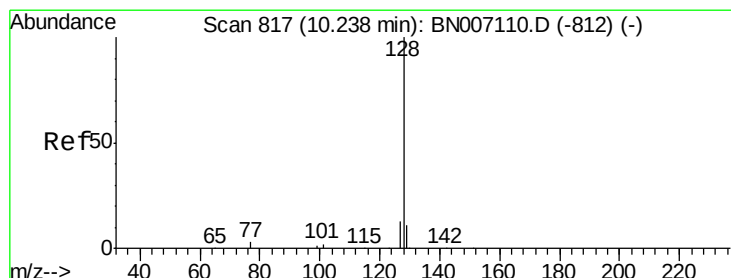
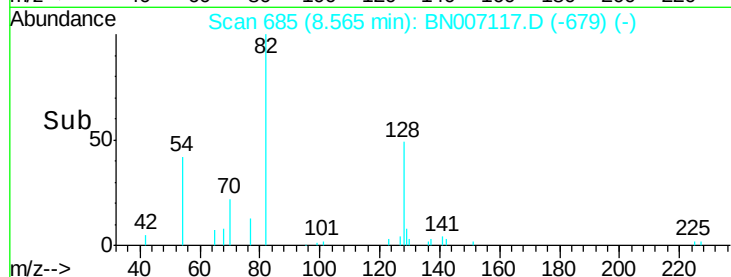
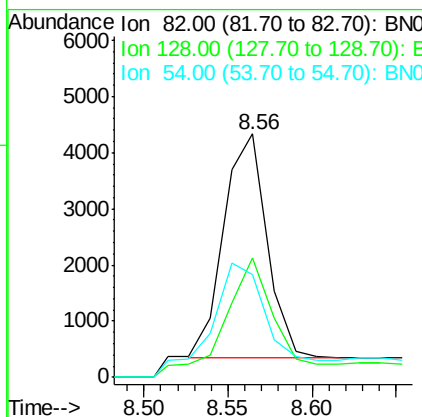
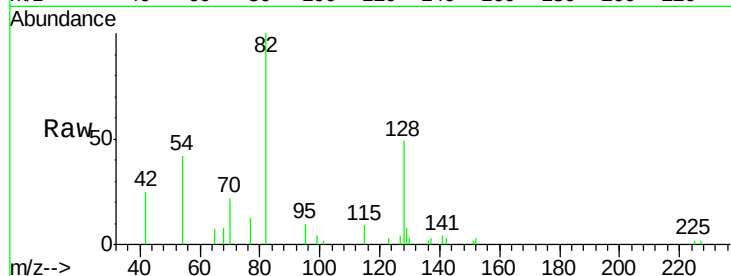
ClientSampleId :

EXT-008-SW120-073119

Tot Ion:	82	Resp:	7103
Ion	Ratio	Lower	Upper
82	100		
128	49.2	34.6	51.8
54	42.4	36.2	54.4

Manual Integrations
APPROVED

mohammad
8/14/2019 2:52:32 AM



#8

Naphthalene

Concen: 0.052 ng

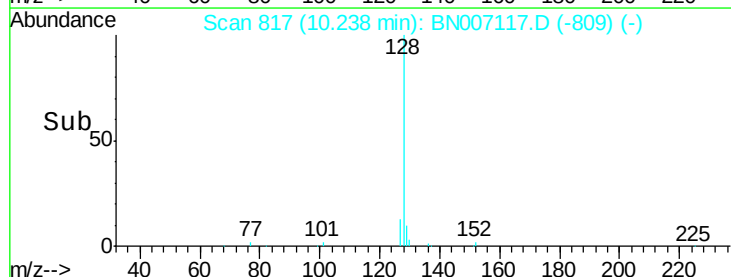
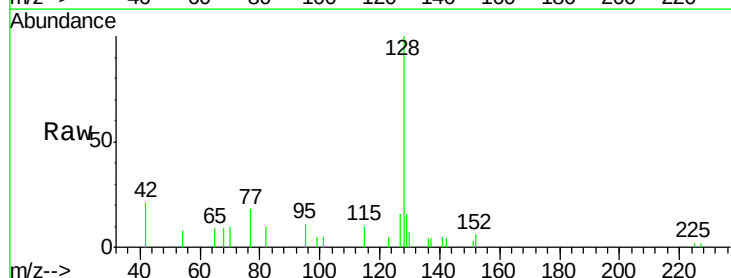
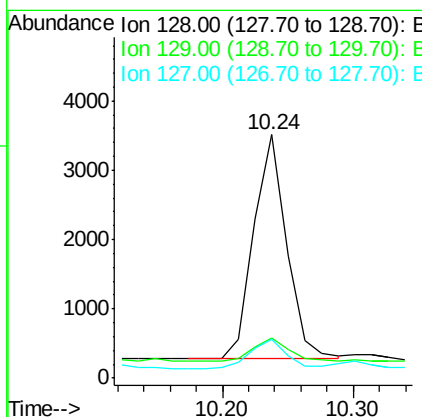
RT: 10.24 min Scan# 817

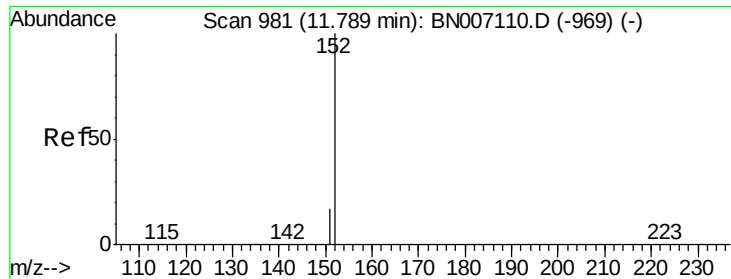
Delta R.T. -0.00 min

Lab File: BN007117.D

Acq: 13 Aug 2019 06:19

Tgt Ion:	128	Resp:	5638
Ion	Ratio	Lower	Upper
128	100		
129	16.4	9.4	14.2#
127	16.1	11.0	16.6





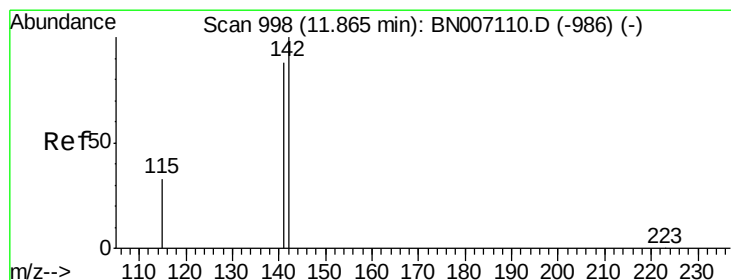
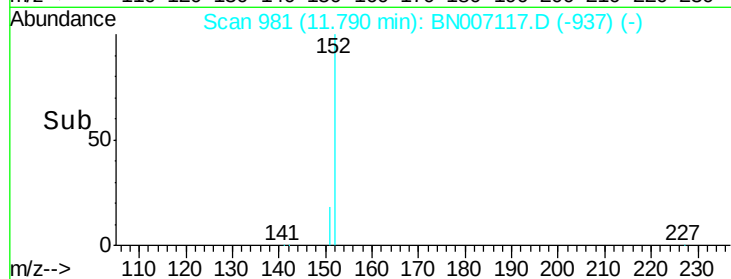
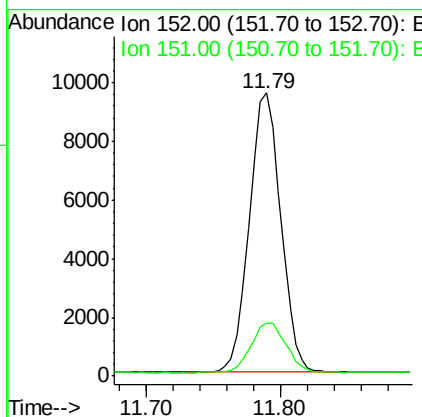
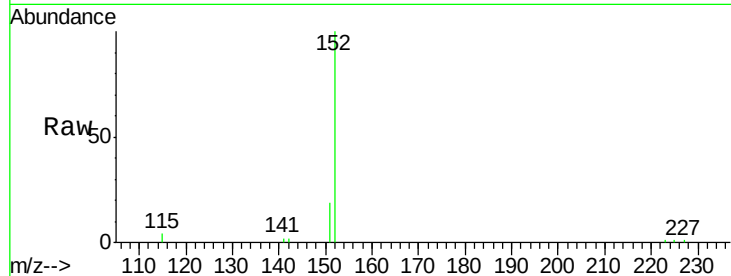
#10
2-Methylnaphthalene-d10
Concen: 0.216 ng
RT: 11.79 min Scan# 981
Delta R.T. -0.00 min
Lab File: BN007117.D
Acq: 13 Aug 2019 06:19

Instrument :
BNA_N
ClientSampleId :
EXT-008-SW120-073119

Tot Ion	Ratio	Lower	Upper
152	100		
151	19.8	15.5	23.3

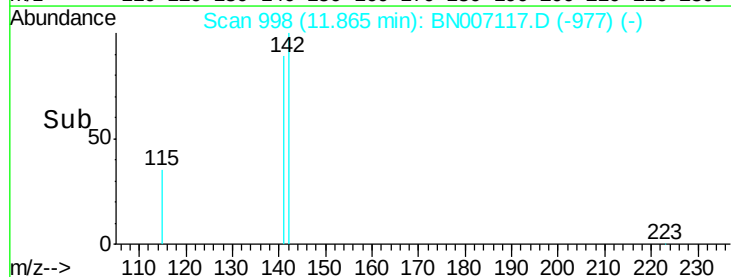
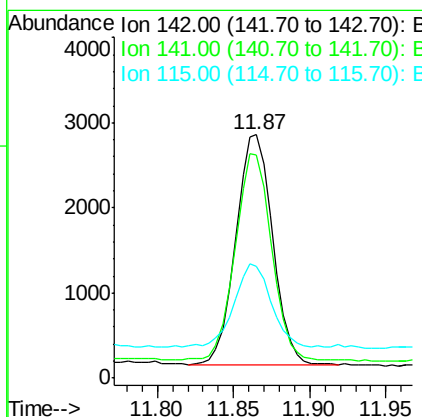
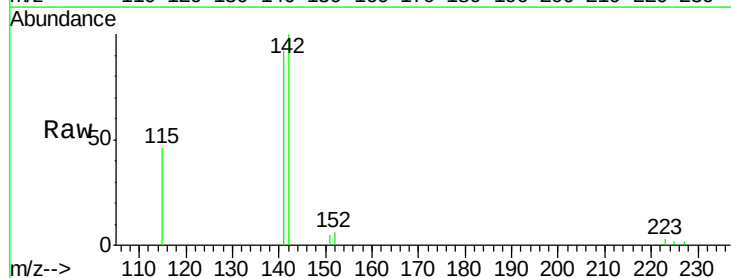
Manual Integrations
APPROVED

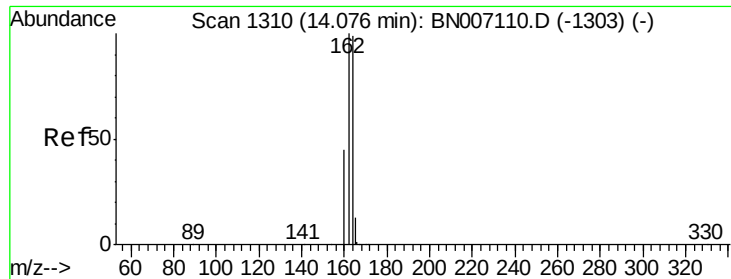
mohammad
8/14/2019 2:52:32 AM



#11
2-Methylnaphthalene
Concen: 0.059 ng
RT: 11.87 min Scan# 998
Delta R.T. -0.00 min
Lab File: BN007117.D
Acq: 13 Aug 2019 06:19

Tgt Ion	Ratio	Lower	Upper
142	100		
141	91.6	69.0	103.6
115	46.1	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: BN007117.D

Acq: 13 Aug 2019 06:19

Instrument :

BNA_N

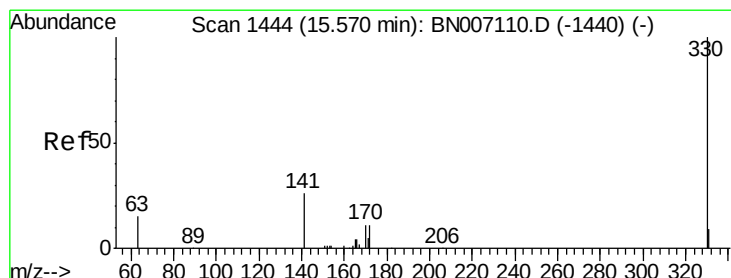
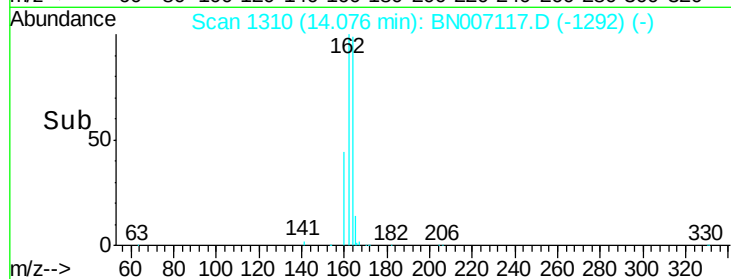
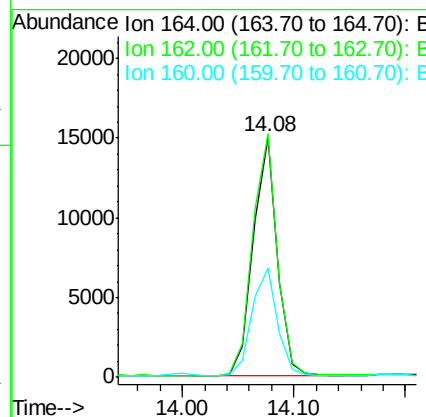
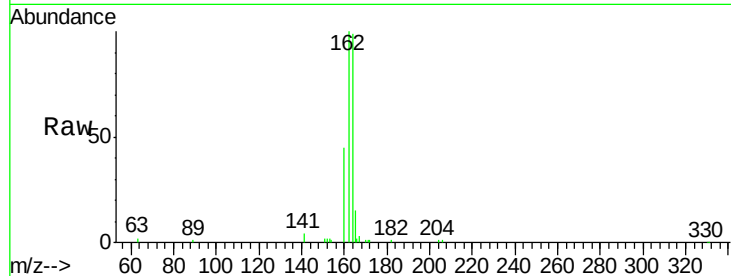
ClientSampleId :

EXT-008-SW120-073119

Tot Ion:	164	Resp:	22313
Ion Ratio	Lower	Upper	
164	100		
162	101.3	82.2	123.4
160	45.4	38.3	57.5

Manual Integrations
APPROVED

mohammad
8/14/2019 2:52:32 AM



#13

2,4,6-Tribromophenol

Concen: 0.213 ng

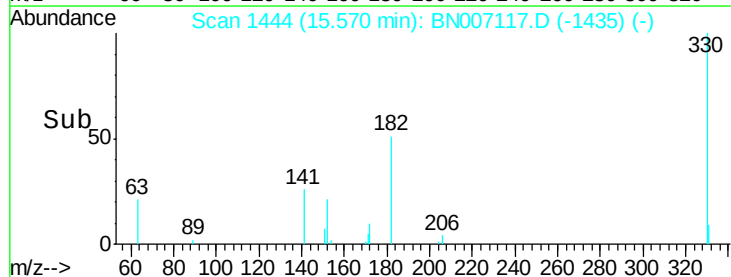
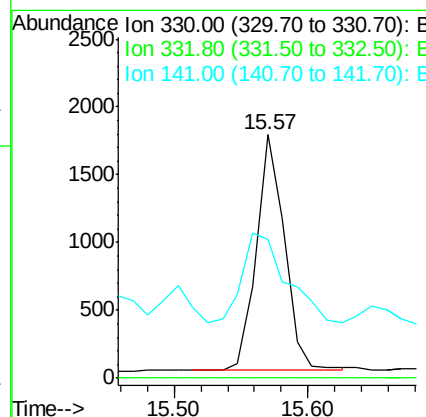
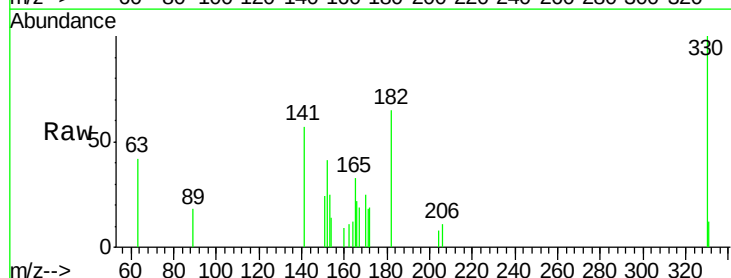
RT: 15.57 min Scan# 1444

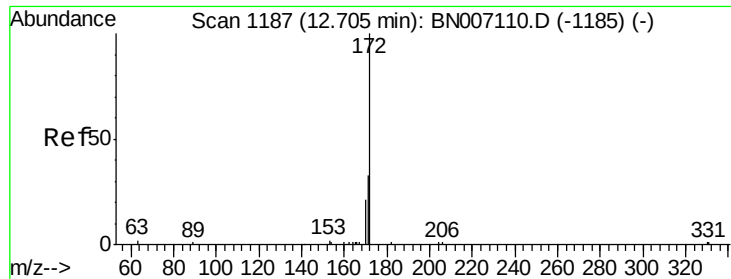
Delta R.T. -0.00 min

Lab File: BN007117.D

Acq: 13 Aug 2019 06:19

Tgt Ion:	330	Resp:	2564
Ion Ratio	Lower	Upper	
330	100		
332	0.0	0.0	0.0
141	58.7	33.6	50.4#





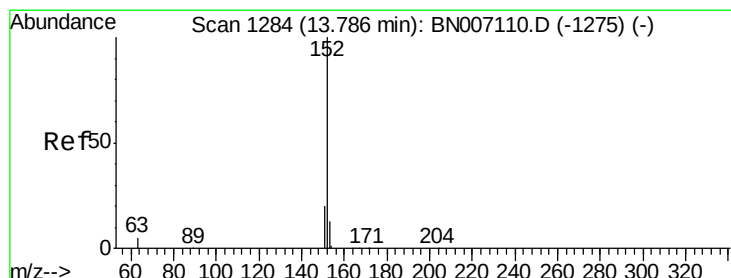
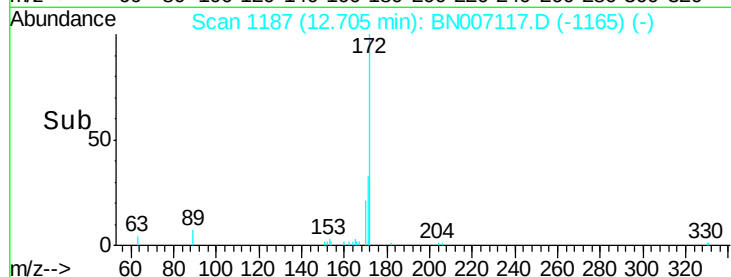
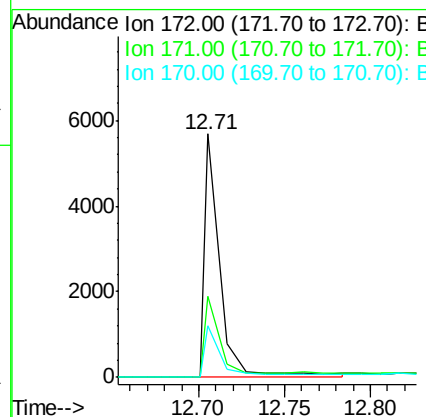
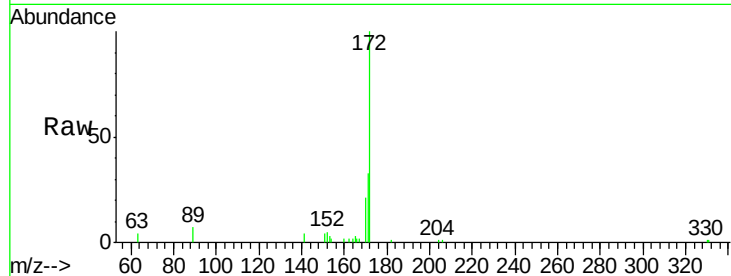
#14
2-Fluorobiphenyl
Concen: 0.126 ng
RT: 12.71 min Scan# 1187
Delta R.T. -0.00 min
Lab File: BN007117.D
Acq: 13 Aug 2019 06:19

Instrument :
BNA_N
ClientSampleId :
EXT-008-SW120-073119

Tot Ion	Ratio	Lower	Upper
172	100		
171	33.4	26.3	39.5
170	21.2	17.0	25.4

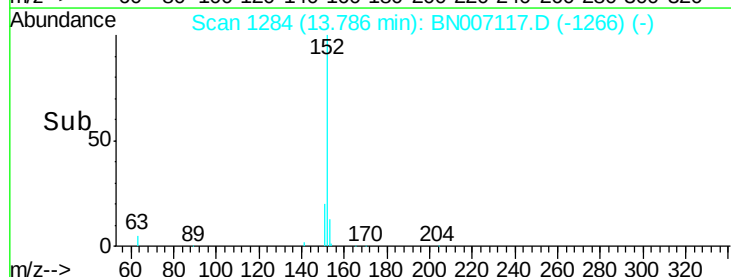
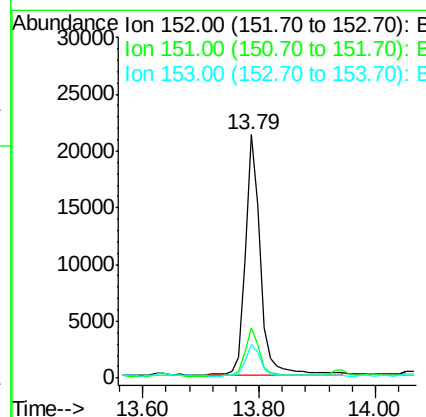
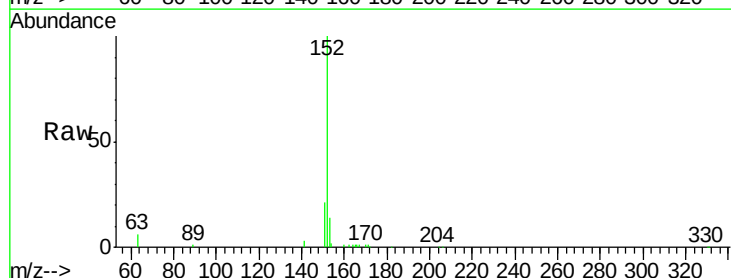
Manual Integrations
APPROVED

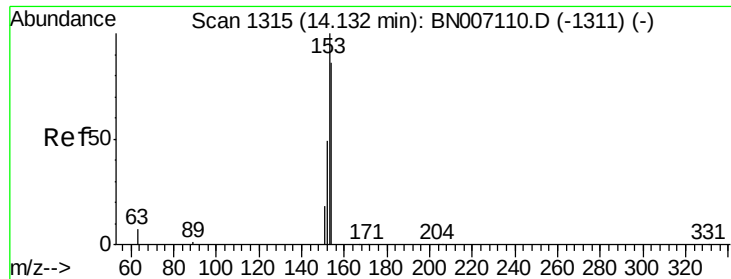
mohammad
8/14/2019 2:52:32 AM



#15
Acenaphthylene
Concen: 0.330 ng
RT: 13.79 min Scan# 1284
Delta R.T. -0.00 min
Lab File: BN007117.D
Acq: 13 Aug 2019 06:19

Tgt Ion	Ratio	Lower	Upper
152	100		
151	19.9	15.8	23.6
153	13.4	10.4	15.6





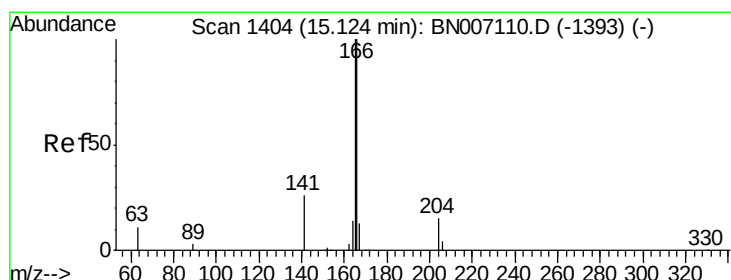
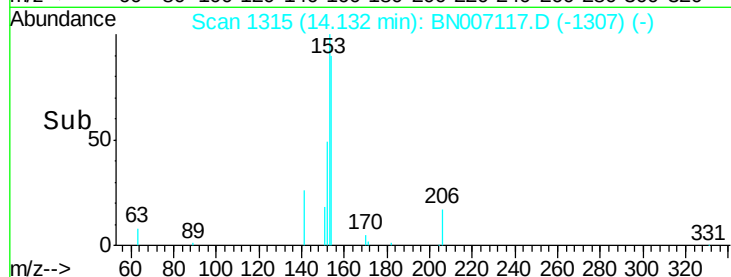
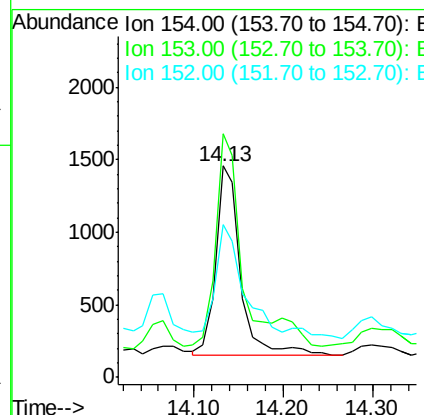
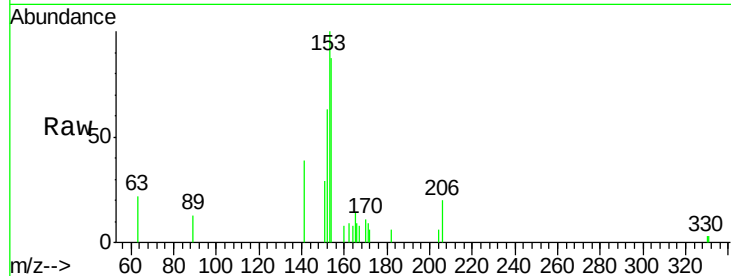
#16
Acenaphthene
Concen: 0.034 ng
RT: 14.13 min Scan# 1315
Delta R.T. -0.01 min
Lab File: BN007117.D
Acq: 13 Aug 2019 06:19

Instrument :
BNA_N
ClientSampleId :
EXT-008-SW120-073119

Tot Ion	Ratio	Lower	Upper
154	100		
153	122.3	89.5	134.3
152	59.1	44.8	67.2

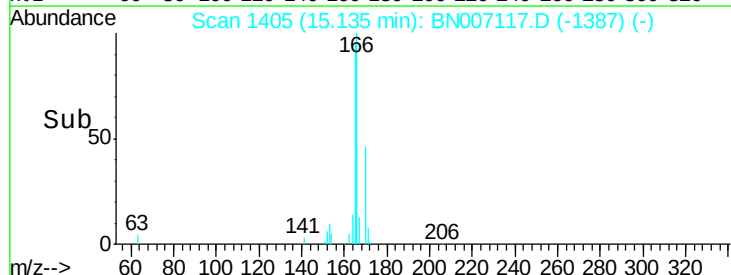
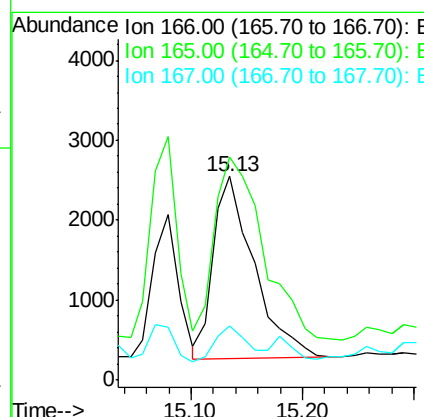
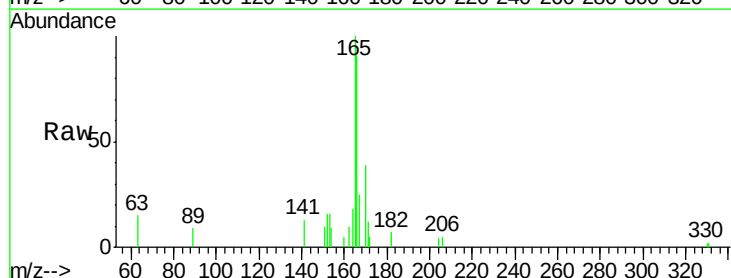
Manual Integrations
APPROVED

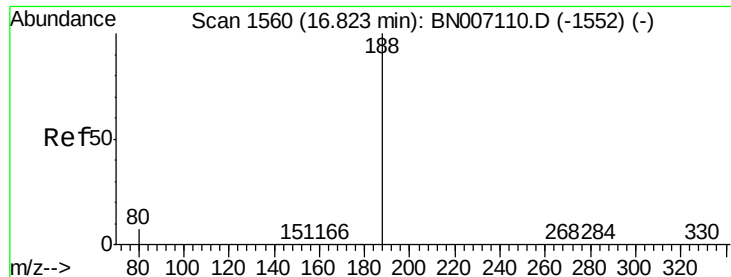
mohammad
8/14/2019 2:52:32 AM



#17
Fluorene
Concen: 0.052 ng
RT: 15.13 min Scan# 1405
Delta R.T. -0.00 min
Lab File: BN007117.D
Acq: 13 Aug 2019 06:19

Tgt Ion	Ratio	Lower	Upper
166	100		
165	124.8	77.9	116.9#
167	16.7	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: BN007117.D

Acq: 13 Aug 2019 06:19

Instrument :

BNA_N

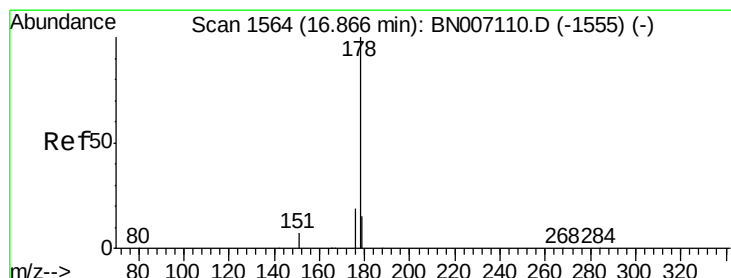
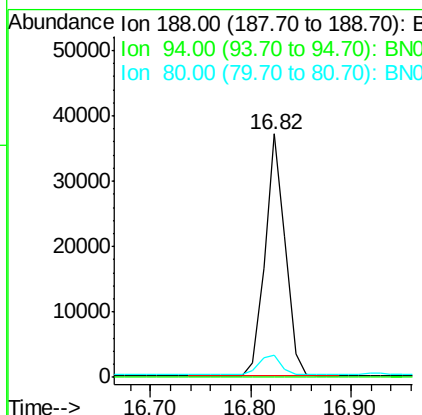
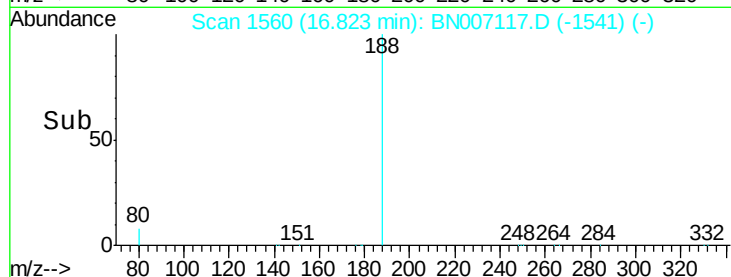
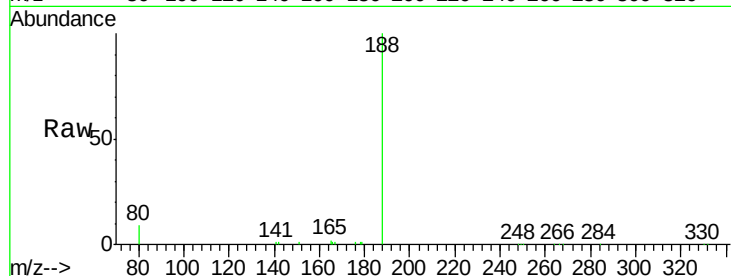
ClientSampleId :

EXT-008-SW120-073119

Tot Ion:	188	Resp:	51487
Ion Ratio	Lower	Upper	
188	100		
94	0.0	0.0	0.0
80	8.9	7.8	11.6

Manual Integrations
APPROVED

mohammad
8/14/2019 2:52:32 AM



#22

Phenanthrene

Concen: 0.694 ng

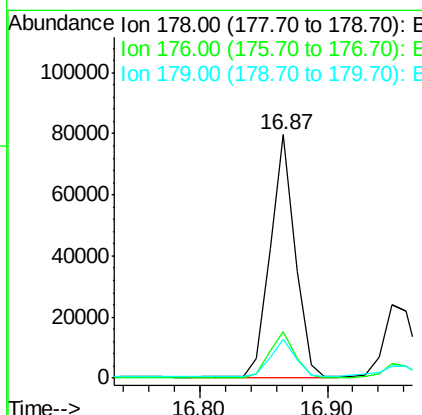
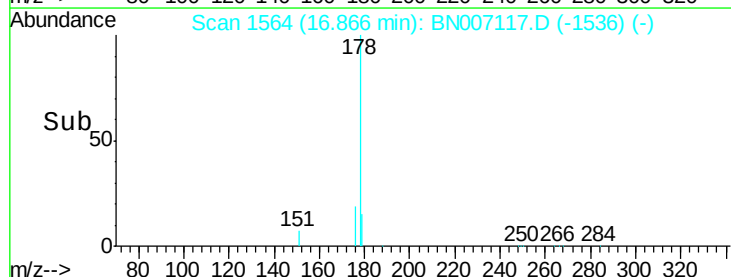
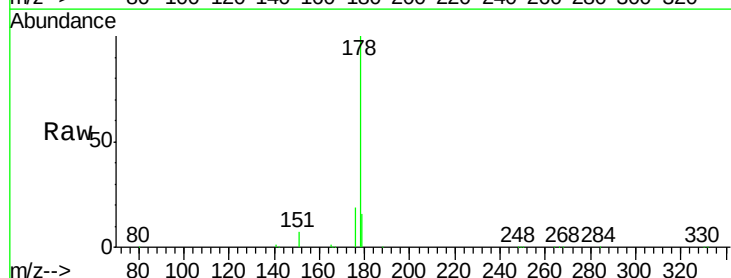
RT: 16.87 min Scan# 1564

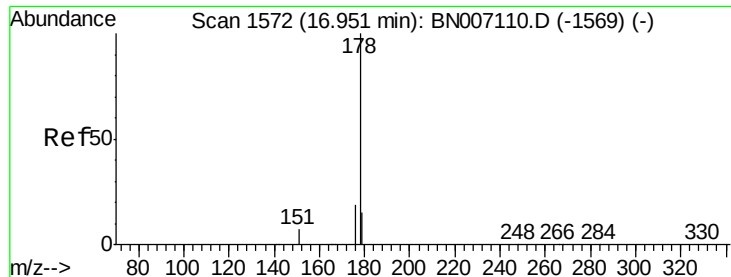
Delta R.T. -0.00 min

Lab File: BN007117.D

Acq: 13 Aug 2019 06:19

Tgt Ion:	178	Resp:	107010
Ion Ratio	Lower	Upper	
178	100		
176	19.0	15.2	22.8
179	15.8	12.3	18.5





#23

Anthracene

Concen: 0.259 ng

RT: 16.95 min Scan# 1572

Delta R.T. -0.01 min

Lab File: BN007117.D

Acq: 13 Aug 2019 06:19

Instrument :

BNA_N

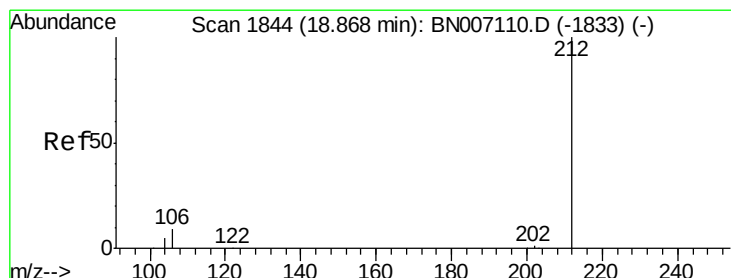
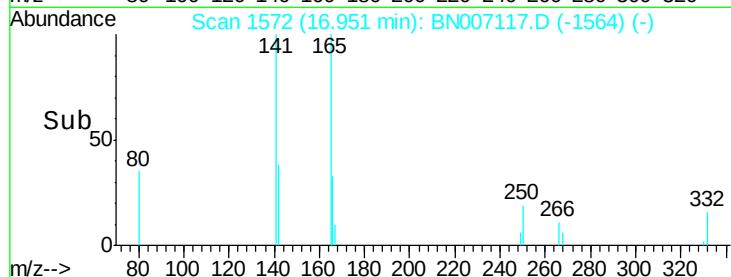
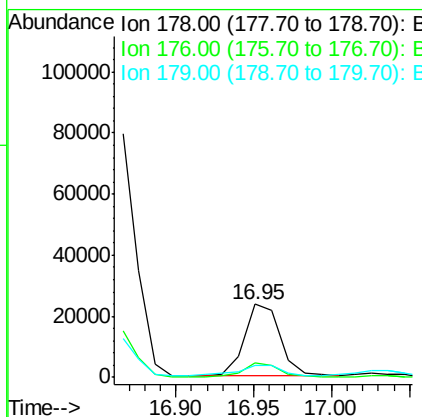
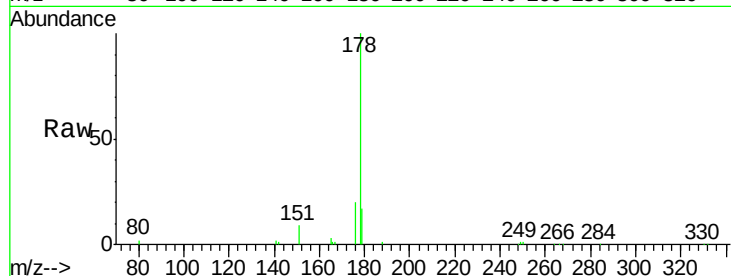
ClientSampleId :

EXT-008-SW120-073119

Tot Ion:	178	Resp:	36558
Ion Ratio	Lower	Upper	
178	100		
176	18.2	14.6	21.8
179	17.8	12.5	18.7

Manual Integrations
APPROVED

mohammad
8/14/2019 2:52:32 AM



#24

Fluoranthene-d10

Concen: 0.201 ng

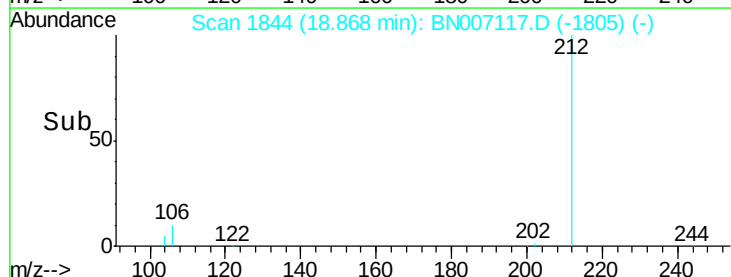
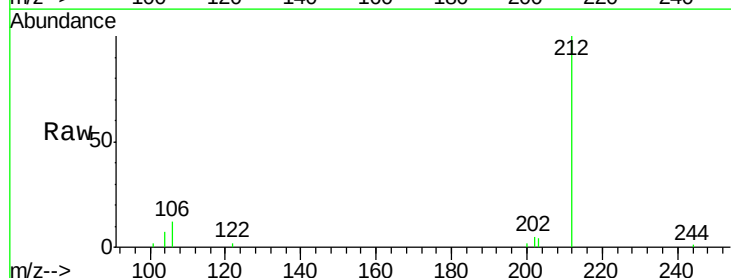
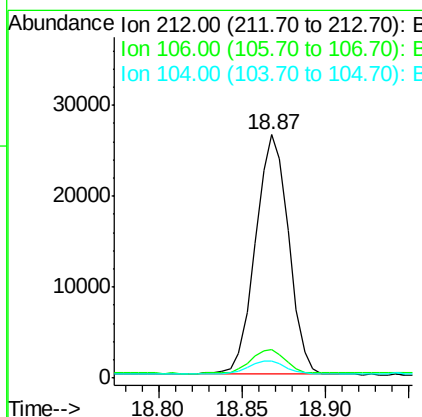
RT: 18.87 min Scan# 1844

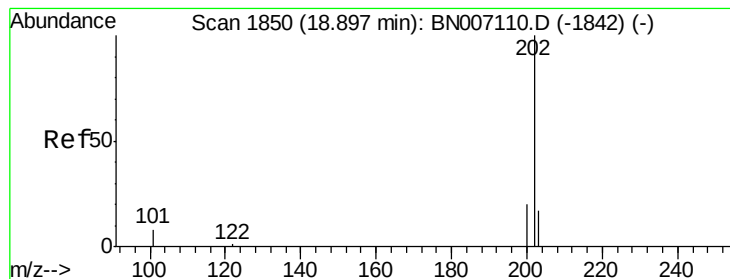
Delta R.T. -0.01 min

Lab File: BN007117.D

Acq: 13 Aug 2019 06:19

Tgt Ion:	212	Resp:	36754
Ion Ratio	Lower	Upper	
212	100		
106	10.4	8.2	12.2
104	6.2	4.5	6.7





#25

Fluoranthene

Concen: 1.795 ng

RT: 18.90 min Scan# 1850

Delta R.T. -0.01 min

Lab File: BN007117.D

Acq: 13 Aug 2019 06:19

Instrument :

BNA_N

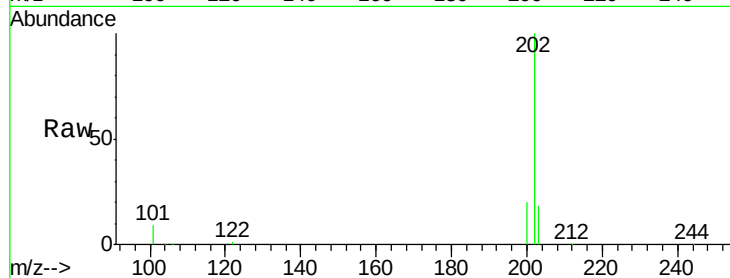
ClientSampleId :

EXT-008-SW120-073119

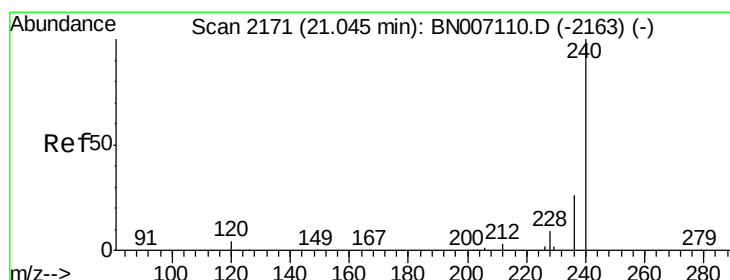
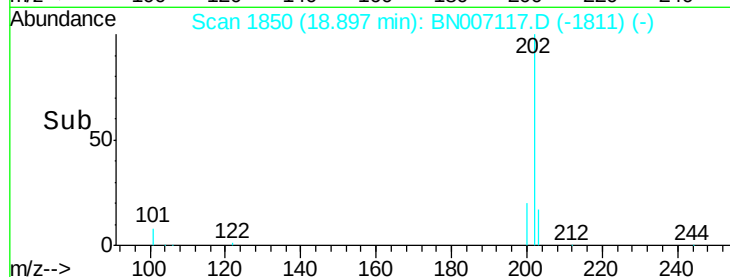
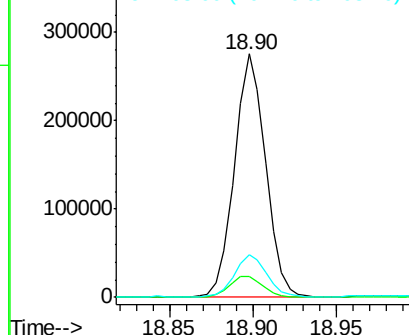
Tot Ion:	202	Resp:	354240
Ion Ratio	Lower	Upper	
202	100		
101	8.9	7.0	10.4
203	17.5	13.8	20.8

Manual Integrations
APPROVED

mohammad
8/14/2019 2:52:32 AM



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

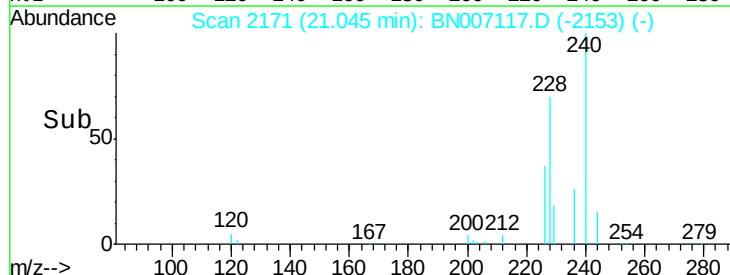
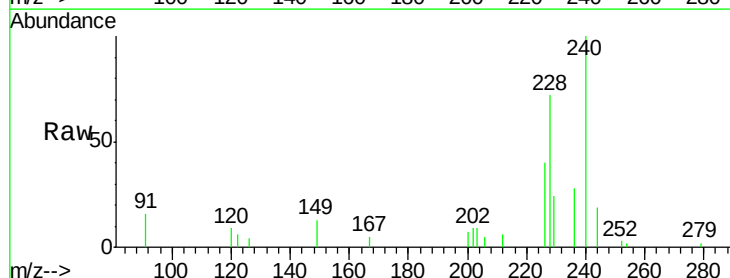
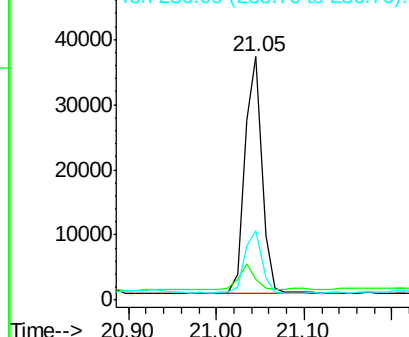
Delta R.T. -0.01 min

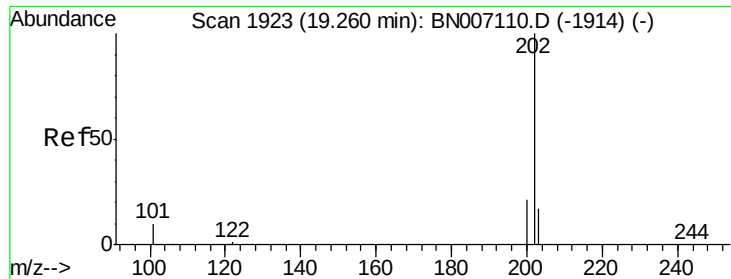
Lab File: BN007117.D

Acq: 13 Aug 2019 06:19

Tgt Ion:	240	Resp:	49398
Ion Ratio	Lower	Upper	
240	100		
120	8.8	4.0	6.0#
236	28.4	21.3	31.9

Abundance Ion 240.00 (239.70 to 240.70): E
Ion 120.00 (119.70 to 120.70): E
Ion 236.00 (235.70 to 236.70): E





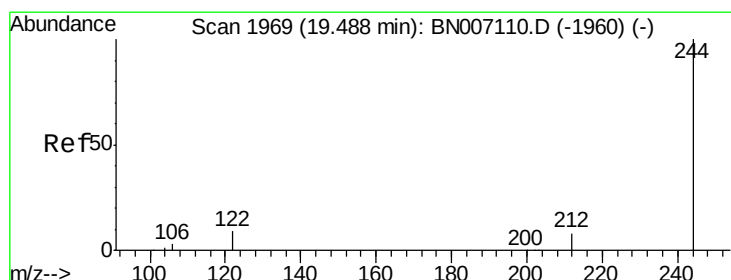
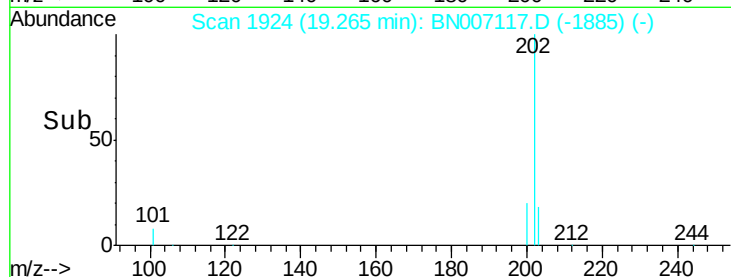
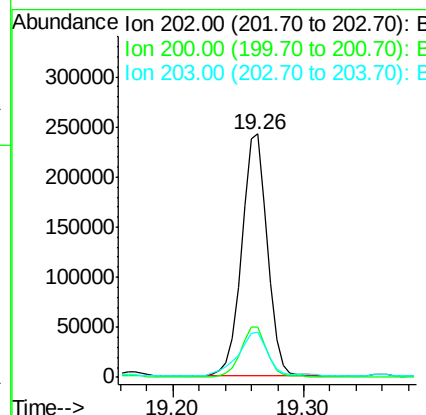
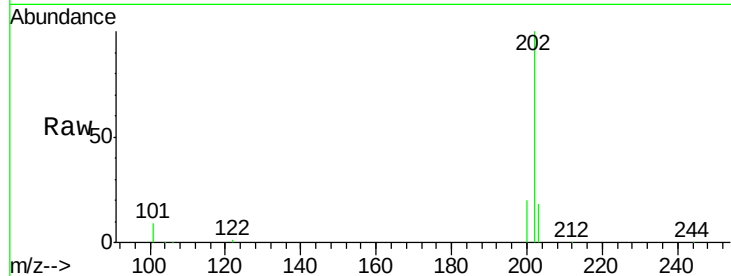
#27
Pvrene
Concen: 1.926 ng
RT: 19.26 min Scan# 1924
Delta R.T. -0.01 min
Lab File: BN007117.D
Acq: 13 Aug 2019 06:19

Instrument :
BNA_N
ClientSampleId :
EXT-008-SW120-073119

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

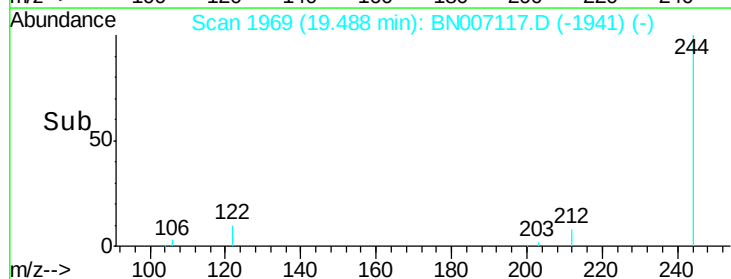
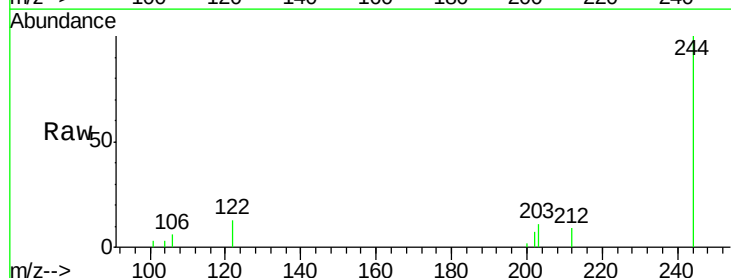
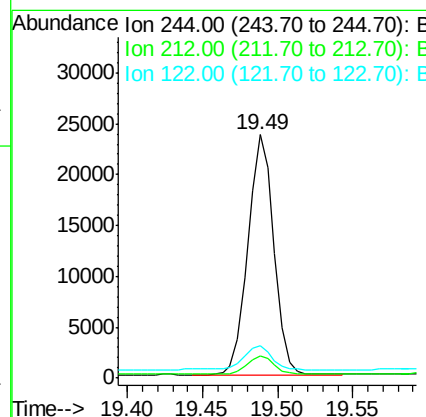
Manual Integrations
APPROVED

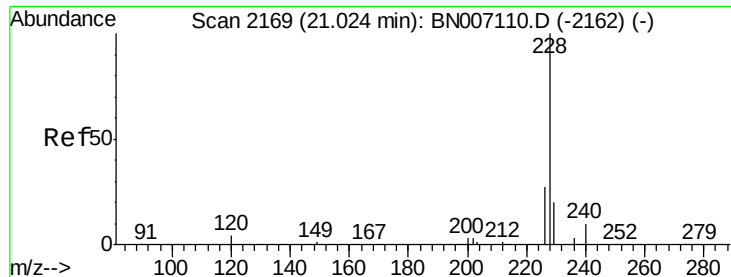
mohammad
8/14/2019 2:52:32 AM



#28
Terphenyl-d14
Concen: 0.209 ng
RT: 19.49 min Scan# 1969
Delta R.T. -0.01 min
Lab File: BN007117.D
Acq: 13 Aug 2019 06:19

Tgt Ion	Ratio	Resp Lower	Upper
244	100		
212	9.3	6.2	9.2#
122	13.1	7.4	11.2#





#29

Benzo(a)anthracene

Concen: 1.052 ng

RT: 21.02 min Scan# 2169

Delta R.T. -0.01 min

Lab File: BN007117.D

Acq: 13 Aug 2019 06:19

Instrument :

BNA_N

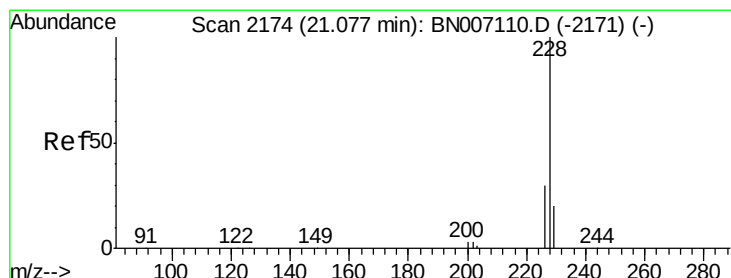
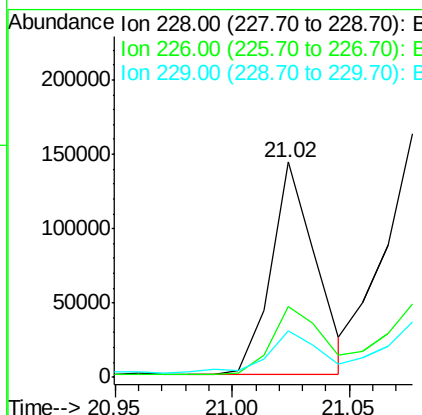
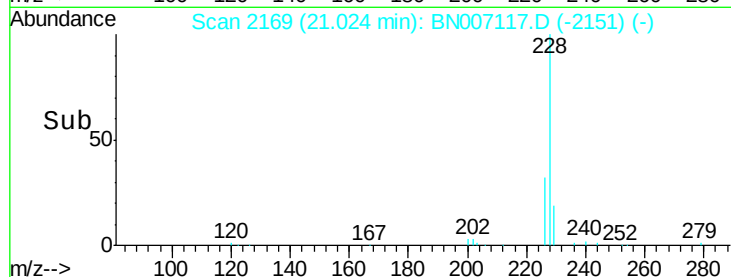
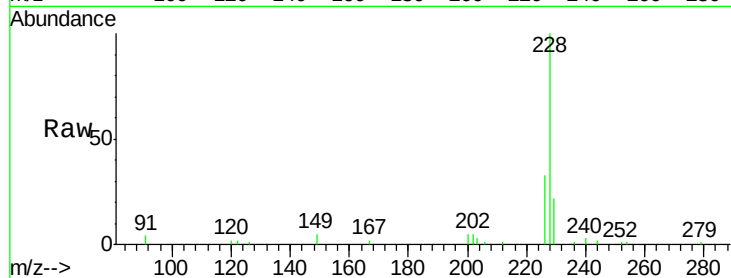
ClientSampleId :

EXT-008-SW120-073119

Tot Ion:	228	Resp:	189999
Ion Ratio	Lower	Upper	
228	100		
226	32.6	21.8	32.6
229	21.7	15.6	23.4

Manual Integrations
APPROVED

mohammad
8/14/2019 2:52:32 AM



#30

Chrysene

Concen: 1.333 ng

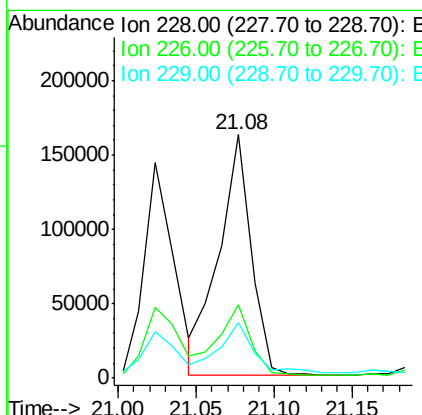
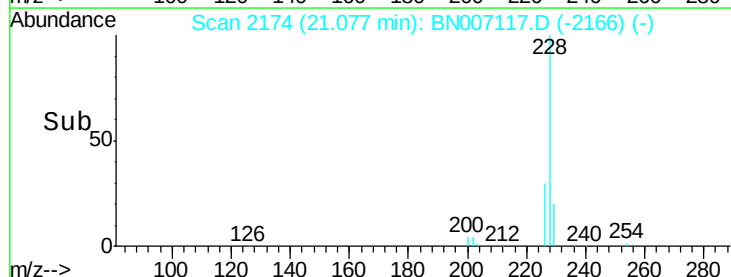
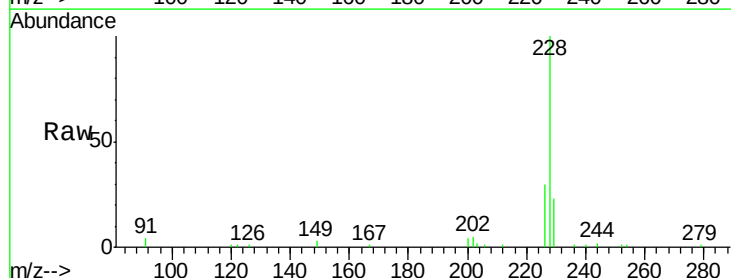
RT: 21.08 min Scan# 2174

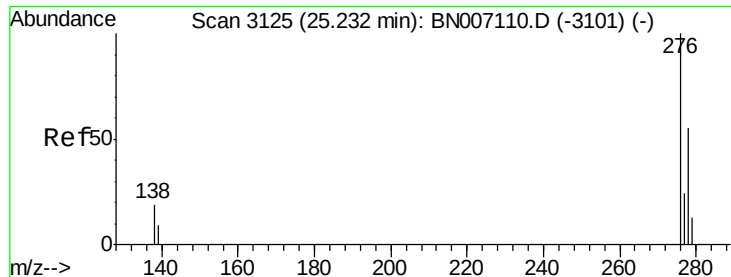
Delta R.T. -0.01 min

Lab File: BN007117.D

Acq: 13 Aug 2019 06:19

Tgt Ion:	228	Resp:	233927
Ion Ratio	Lower	Upper	
228	100		
226	30.3	23.8	35.6
229	22.5	15.7	23.5





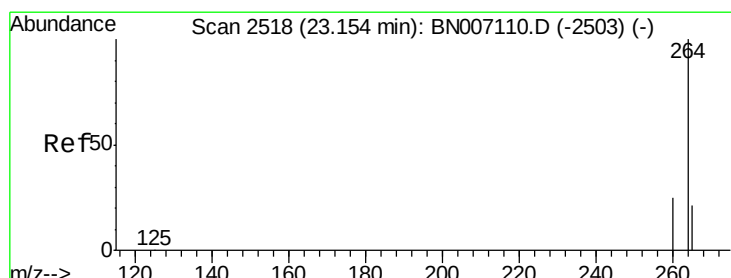
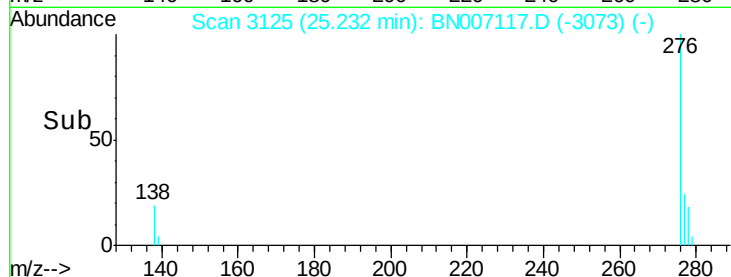
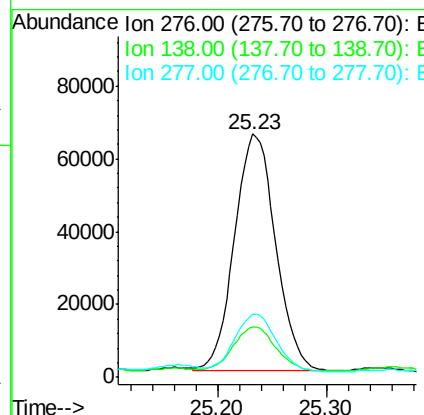
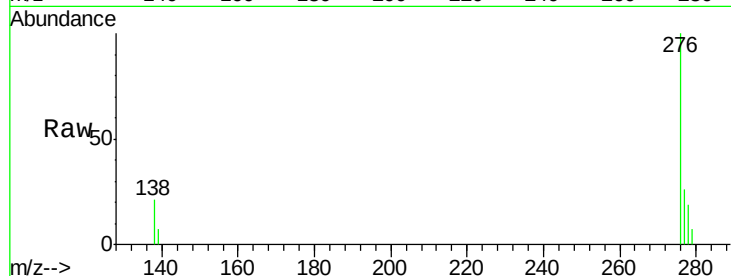
#31
Indeno(1,2,3-cd)pyrene
Concen: 0.882 ng
RT: 25.23 min Scan# 3125
Delta R.T. -0.02 min
Lab File: BN007117.D
Acq: 13 Aug 2019 06:19

Instrument :
BNA_N
ClientSampleId :
EXT-008-SW120-073119

Tot Ion	Ratio	Lower	Upper
276	100		
138	19.3	16.0	24.0
277	24.5	19.9	29.9

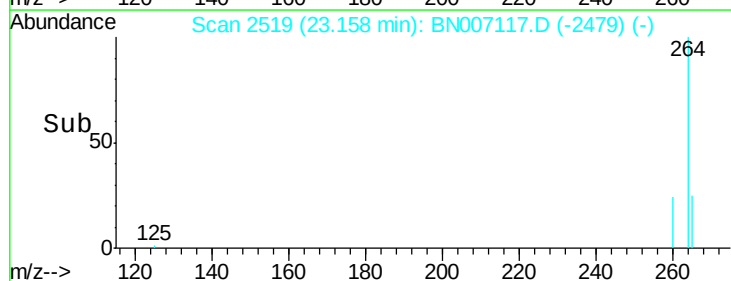
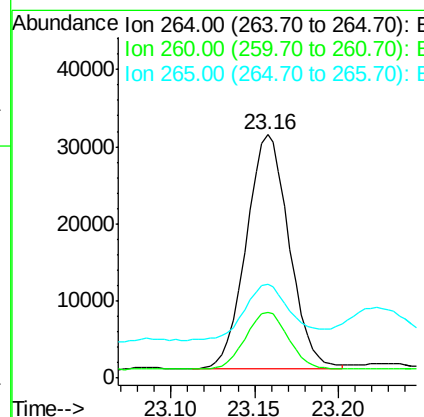
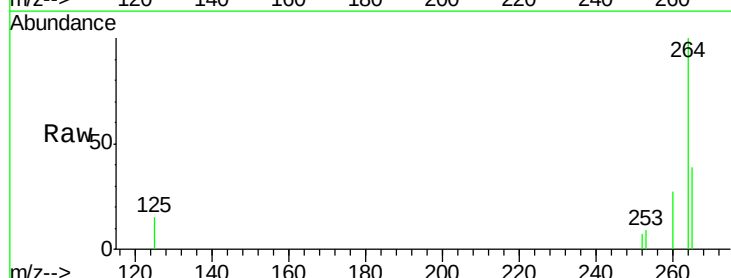
Manual Integrations
APPROVED

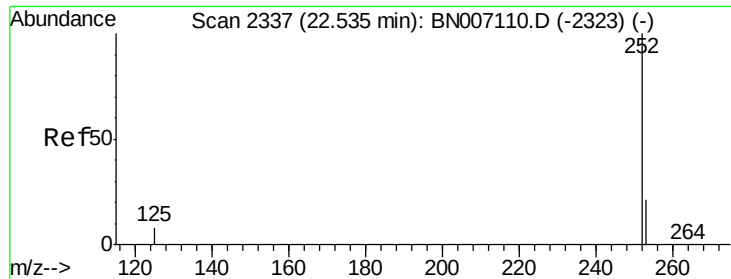
mohammad
8/14/2019 2:52:32 AM



#32
Perylene-d12
Concen: 0.400 ng
RT: 23.16 min Scan# 2519
Delta R.T. -0.01 min
Lab File: BN007117.D
Acq: 13 Aug 2019 06:19

Tgt Ion	Ratio	Lower	Upper
264	100		
260	27.2	19.8	29.8
265	38.7	26.2	39.4





#33

Benzo(b)fluoranthene

Concen: 1.777 ng

RT: 22.54 min Scan# 2338

Delta R.T. -0.01 min

Lab File: BN007117.D

Acq: 13 Aug 2019 06:19

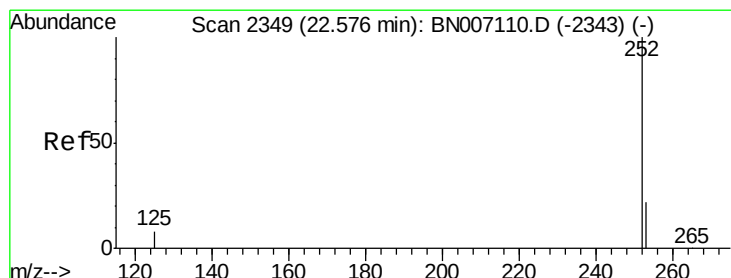
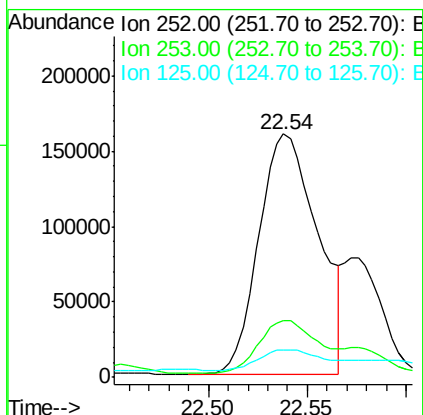
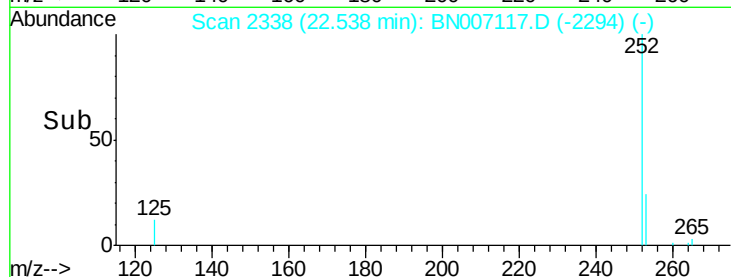
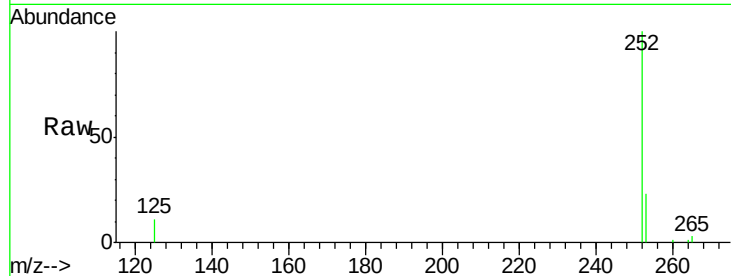
Instrument :
BNA_N

ClientSampleId :
EXT-008-SW120-073119

Tot Ion	Ratio	Lower	Upper
252	100		
253	23.4	18.2	27.2
125	11.4	7.4	11.0

Manual Integrations
APPROVED

mohammad
8/14/2019 2:52:32 AM



#34

Benzo(k)fluoranthene

Concen: 0.566 ng m

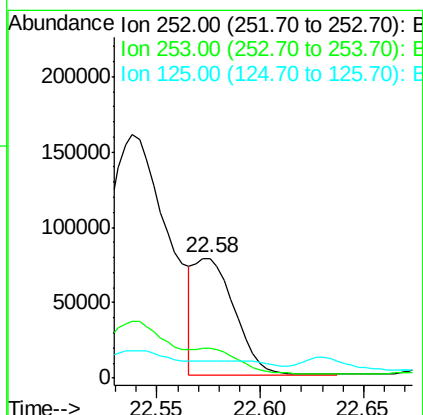
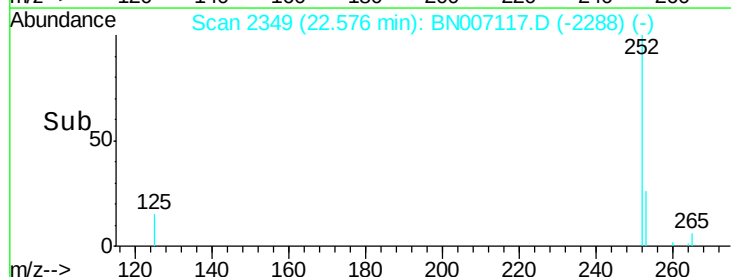
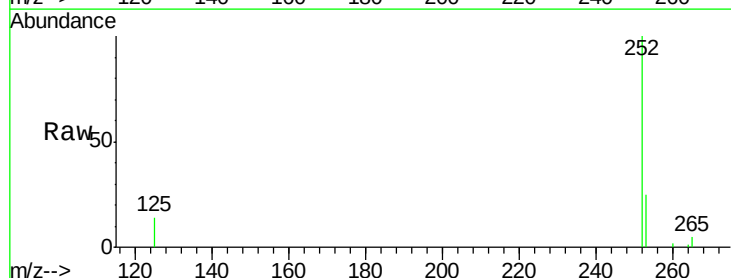
RT: 22.58 min Scan# 2349

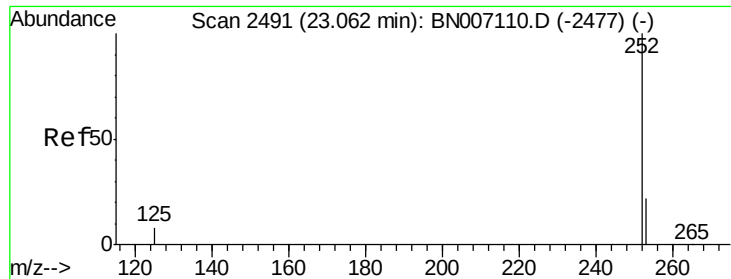
Delta R.T. -0.01 min

Lab File: BN007117.D

Acq: 13 Aug 2019 06:19

Tgt Ion	Ratio	Lower	Upper
252	100		
253	25.3	18.1	27.1
125	14.3	7.4	11.0





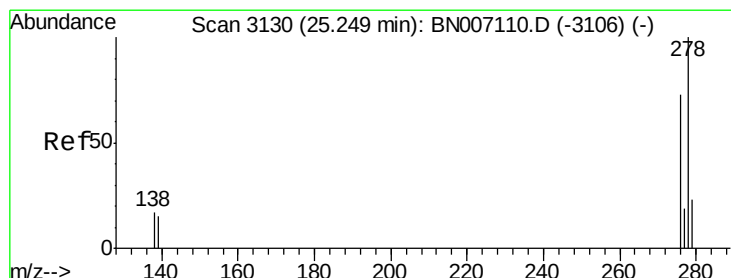
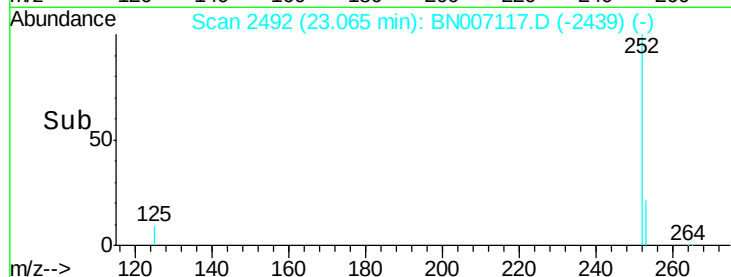
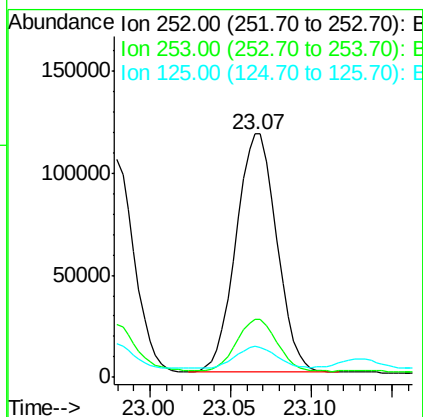
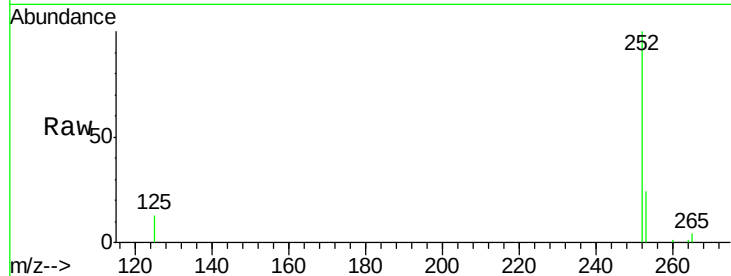
#35
Benzo(a)pyrene
Concen: 1.214 ng
RT: 23.07 min Scan# 2492
Delta R.T. -0.02 min
Lab File: BN007117.D
Acq: 13 Aug 2019 06:19

Instrument :
BNA_N
ClientSampleId :
EXT-008-SW120-073119

Tot Ion	Ratio	Lower	Upper
252	100		
253	23.7	18.5	27.7
125	12.6	8.2	12.4#

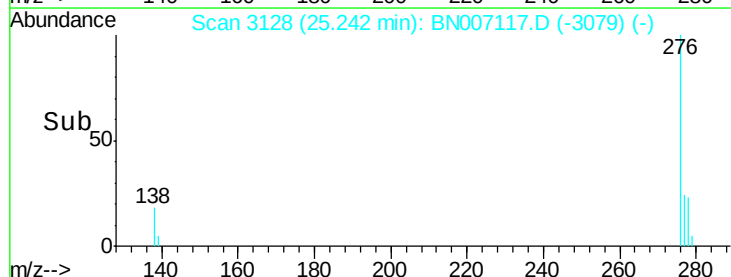
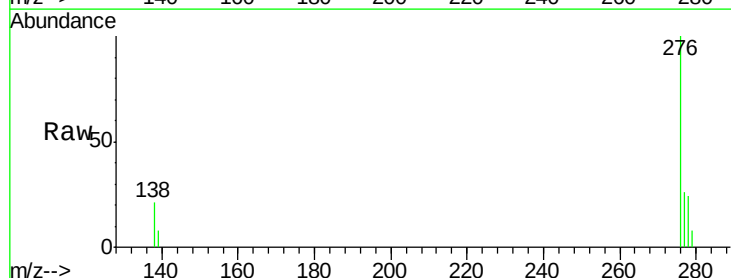
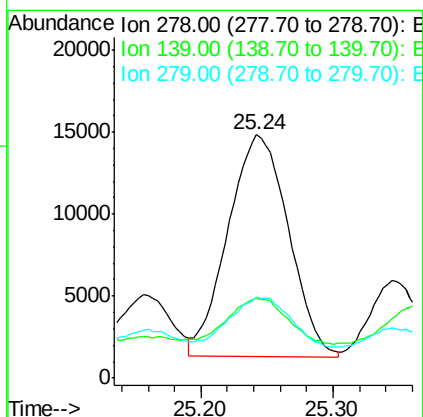
Manual Integrations
APPROVED

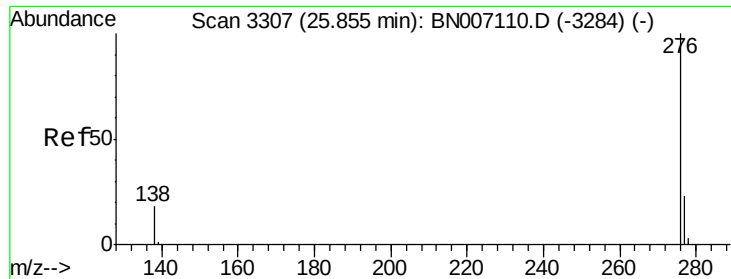
mohammad
8/14/2019 2:52:32 AM



#36
Dibenzo(a,h)anthracene
Concen: 0.256 ng
RT: 25.24 min Scan# 3128
Delta R.T. -0.03 min
Lab File: BN007117.D
Acq: 13 Aug 2019 06:19

Tgt Ion	Ratio	Lower	Upper
278	100		
139	32.9	11.3	16.9#
279	33.1	19.3	28.9#





#37
 Benzo(a,h,i)perylene
 Concen: 1.028 ng
 RT: 25.86 min Scan# 3309
 Delta R.T. -0.02 min
 Lab File: BN007117.D
 Acq: 13 Aug 2019 06:19

Instrument :
 BNA_N
 ClientSampleId :
 EXT-008-SW120-073119

Tot Ion	Ratio	Lower	Upper
276	100		
277	25.7	19.8	29.8
138	20.8	14.6	22.0

Manual Integrations
 APPROVED

mohammad
 8/14/2019 2:52:32 AM

