

Data File : BN007243.D
Acq On : 17 Aug 2019 04:29
Operator : HP/JU
Sample : K4173-16DL 10X
Misc :
ALS Vial : 24 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
EXT-015-SW085-080119-1DL

Manual Integrations
APPROVED

mohammad
8/20/2019 8:44:12 AM

Quant Time: Aug 19 06:58:40 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	6988	0.40	ng	0.00
6) Naphthalene-d8	10.17	136	27535	0.40	ng	-0.01
12) Acenaphthene-d10	14.07	164	15735	0.40	ng	-0.01
18) Phenanthrene-d10	16.82	188	35587	0.40	ng	0.00
26) Chrysene-d12	21.03	240	34110	0.40	ng	-0.02
32) Perylene-d12	23.15	264	39126	0.40	ng	-0.02

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
3) 2-Fluorophenol	5.06	112	312	0.02	ng	0.00
4) Phenol-d6	6.61	99	449	0.02	ng	0.00
7) Nitrobenzene-d5	8.55	82	355m	0.02	ng	-0.01
10) 2-Methylnaphthalene-d10	11.78	152	753	0.01	ng	-0.01
13) 2,4,6-Tribromophenol	15.57	330	212	0.03	ng	0.00
14) 2-Fluorobiphenyl	12.71	172	357	0.02	ng	0.00
24) Fluoranthene-d10	18.86	212	2665m	0.02	ng	-0.01
28) Terphenyl-d14	19.48	244	1746	0.02	ng	-0.02

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
8) Naphthalene	10.22	128	9280	0.120	ng	97
11) 2-Methylnaphthalene	11.86	142	8001	0.146	ng	94
15) Acenaphthylene	13.79	152	120832	1.469	ng	100
16) Acenaphthene	14.13	154	13361	0.254	ng	93
17) Fluorene	15.12	166	31154	0.395	ng	# 81
22) Phenanthrene	16.86	178	492565	4.618	ng	99
23) Anthracene	16.95	178	98628	1.012	ng	99
25) Fluoranthene	18.89	202	679446	4.980	ng	99
27) Pyrene	19.26	202	976540	8.164	ng	97
29) Benzo(a)anthracene	21.02	228	423624m	3.396	ng	
30) Chrysene	21.08	228	475409	3.923	ng	97
31) Indeno(1,2,3-cd)pyrene	25.23	276	227153	1.701	ng	98
33) Benzo(b)fluoranthene	22.53	252	434415m	3.238	ng	
34) Benzo(k)fluoranthene	22.57	252	128092m	0.967	ng	
35) Benzo(a)pyrene	23.06	252	360398	2.963	ng	99
36) Dibenzo(a,h)anthracene	25.23	278	65474	0.540	ng	# 81
37) Benzo(g,h,i)perylene	25.85	276	254439	2.038	ng	98

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

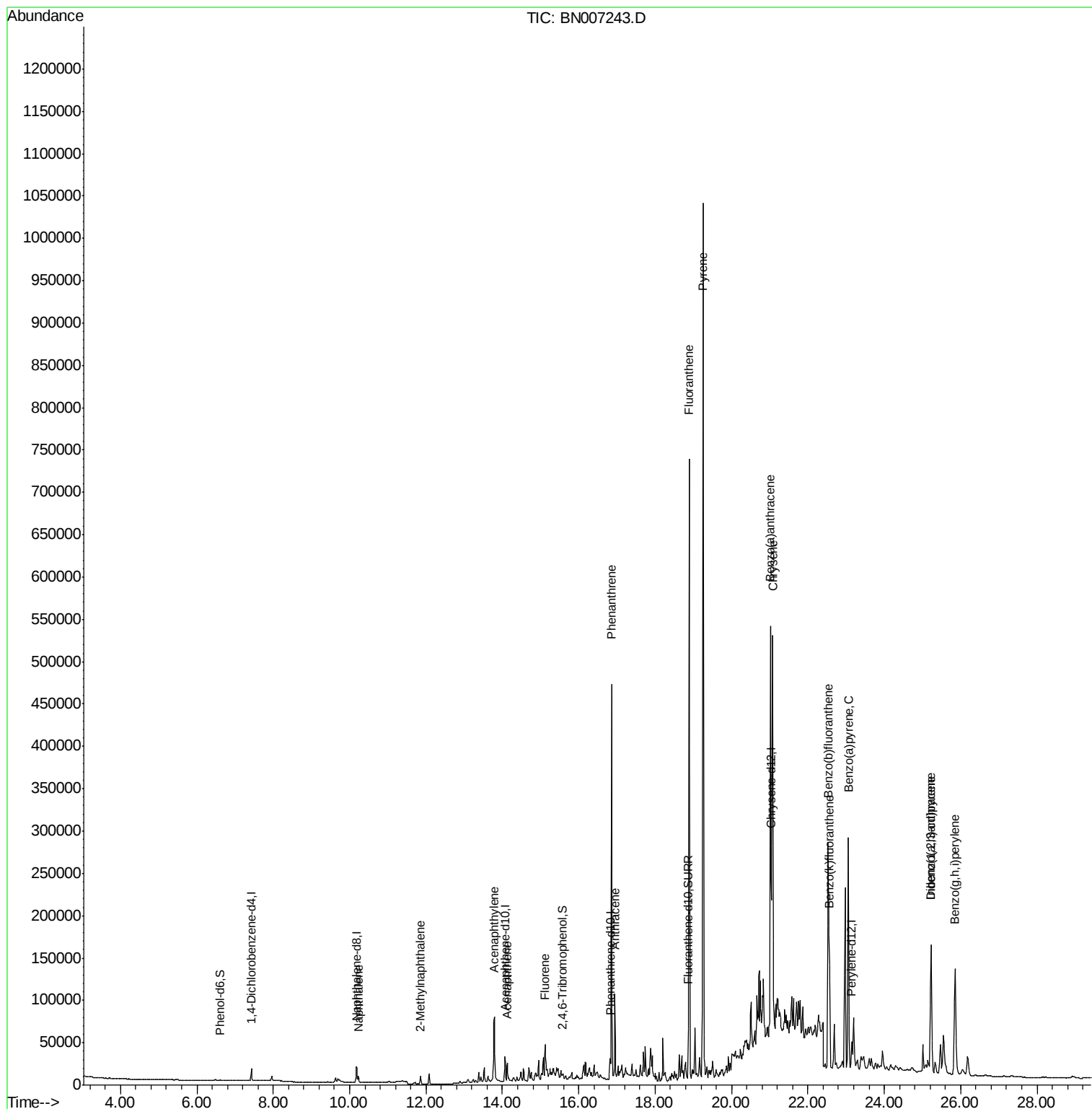
Data File : BN007243.D
Acq On : 17 Aug 2019 04:29
Operator : HP/JU
Sample : K4173-16DL 10X
Misc :
ALS Vial : 24 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
EXT-015-SW085-080119-1DL

Manual Integrations
APPROVED

mohammad
8/20/2019 8:44:12 AM

Quant Time: Aug 19 06:58:40 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

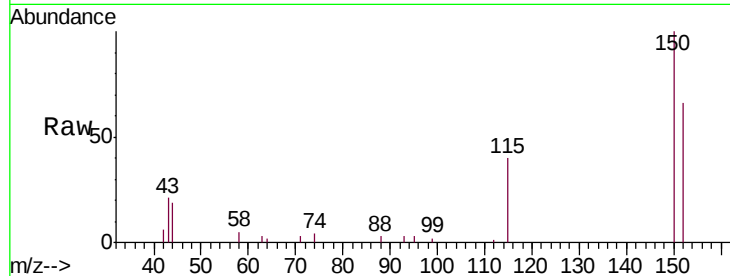
1,4-Dichlorobenzene-d4
 Concen: 0.400 ng
 RT: 7.43 min Scan# 546
 Delta R.T. -0.01 min
 Lab File: BN007243.D
 Acq: 17 Aug 2019 04:29

Instrument :
 BNA_N
 ClientSampleId :
 EXT-015-SW085-080119-1DL

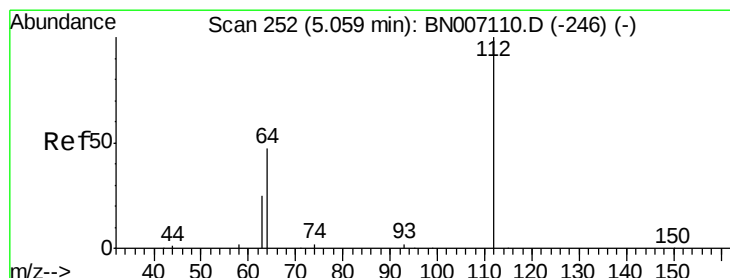
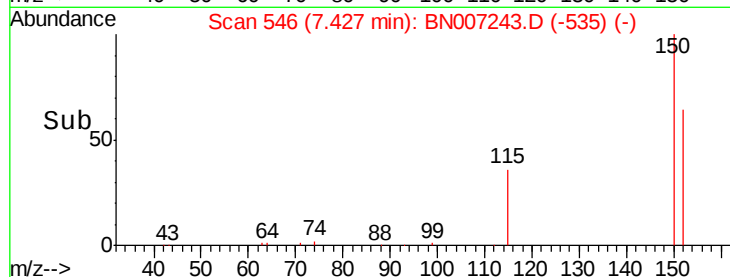
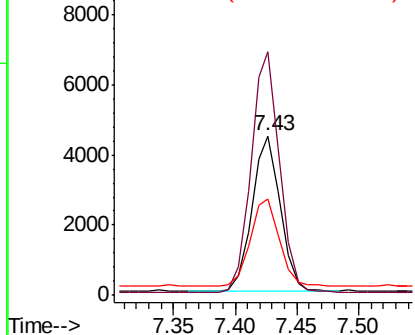
Tgt Ion	Ratio	Lower	Upper
152	100		
150	152.5	121.7	182.5
115	60.6	46.2	69.4

Manual Integrations
 APPROVED

mohammad
 8/20/2019 8:44:12 AM



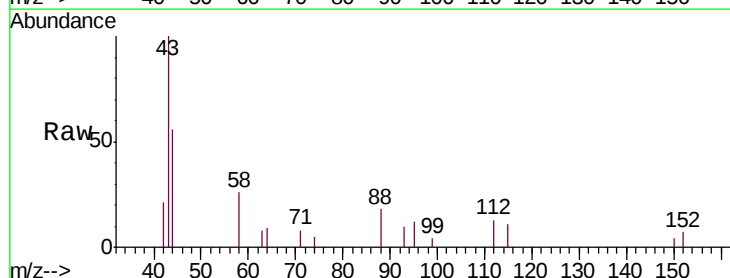
Abundance Ion 152.00 (151.70 to 152.70): E
 Ion 150.00 (149.70 to 150.70): E
 Ion 115.00 (114.70 to 115.70): E



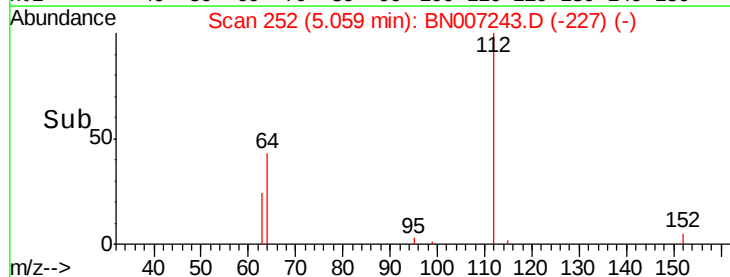
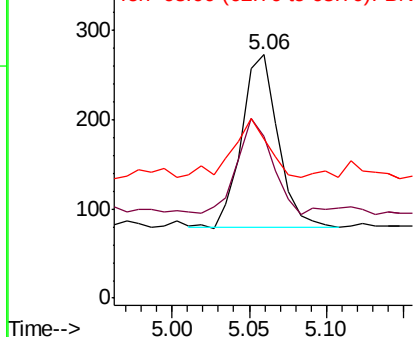
#3

2-Fluorophenol
 Concen: 0.019 ng
 RT: 5.06 min Scan# 252
 Delta R.T. -0.00 min
 Lab File: BN007243.D
 Acq: 17 Aug 2019 04:29

Tgt Ion	Ratio	Lower	Upper
112	100		
64	56.7	42.6	63.8
63	42.3	22.2	33.2



Abundance Ion 112.00 (111.70 to 112.70): E
 Ion 64.00 (63.70 to 64.70): BNC
 Ion 63.00 (62.70 to 63.70): BNC





#4

Phenol-d6

Concen: 0.022 ng

RT: 6.61 min Scan# 445

Delta R.T. -0.00 min

Lab File: BN007243.D

Acq: 17 Aug 2019 04:29

Instrument :

BNA_N

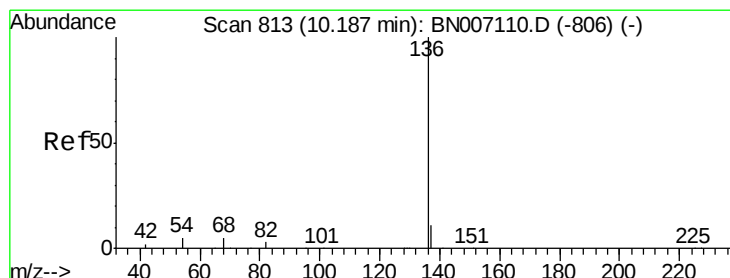
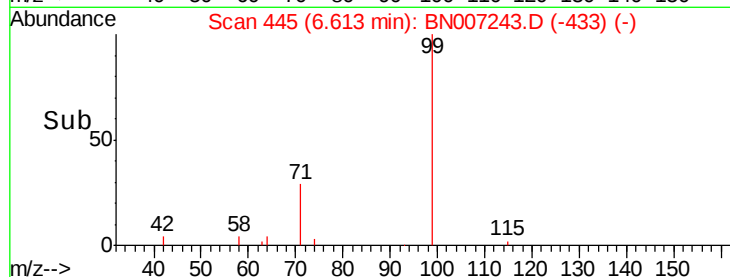
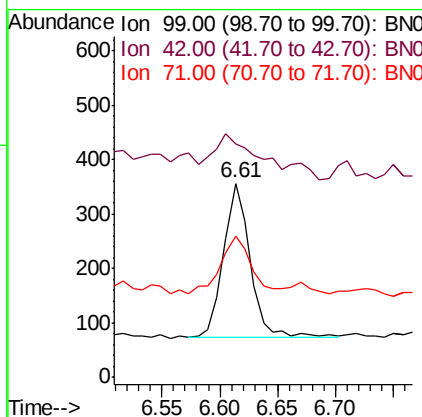
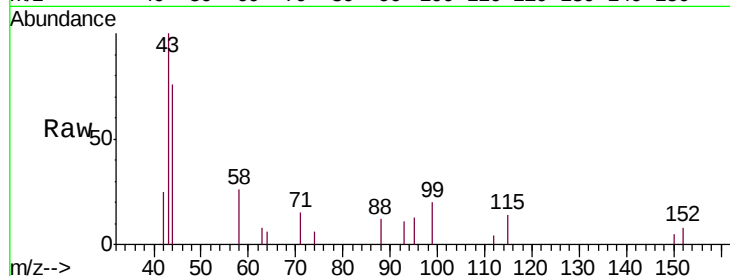
ClientSampleId :

EXT-015-SW085-080119-1DL

Tgt Ion:	99	Resp:	449
Ion	Ratio	Lower	Upper
99	100		
42	55.2	15.8	23.6#
71	44.8	27.0	40.4#

Manual Integrations
APPROVED

mohammad
8/20/2019 8:44:12 AM



#6

Naphthalene-d8

Concen: 0.400 ng

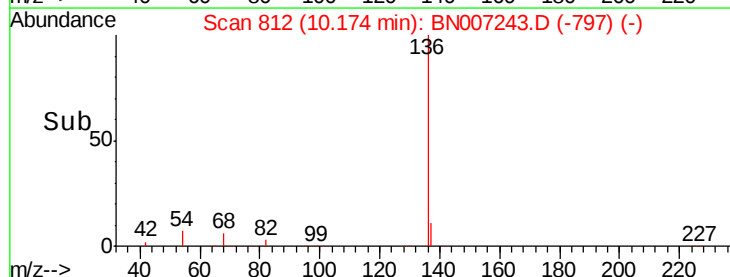
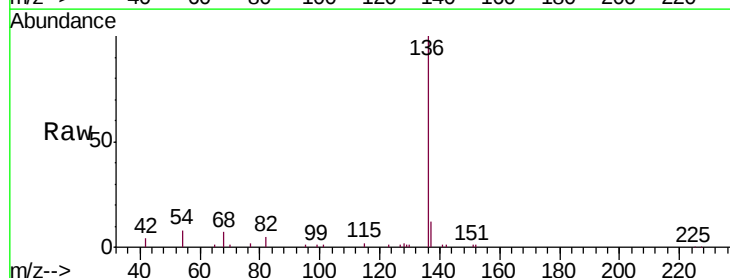
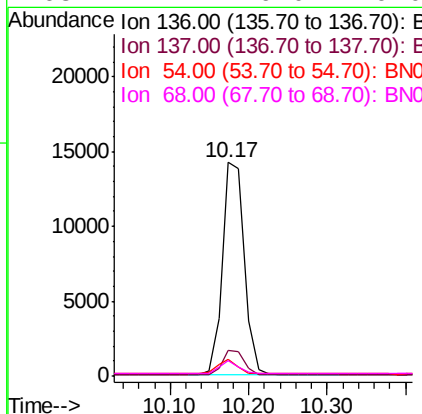
RT: 10.17 min Scan# 812

Delta R.T. -0.01 min

Lab File: BN007243.D

Acq: 17 Aug 2019 04:29

Tgt Ion:	136	Resp:	27535
Ion	Ratio	Lower	Upper
136	100		
137	11.7	9.4	14.0
54	7.9	6.6	9.8
68	7.2	6.0	9.0





#7

Nitrobenzene-d5

Concen: 0.016 ng m

RT: 8.55 min Scan# 684

Delta R.T. -0.01 min

Lab File: BN007243.D

Acq: 17 Aug 2019 04:29

Instrument :

BNA_N

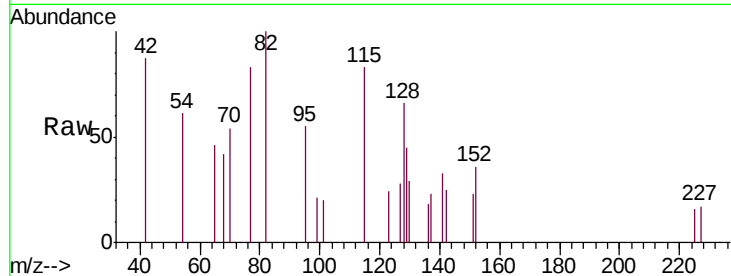
ClientSampleId :

EXT-015-SW085-080119-1DL

Tgt Ion:	82	Resp:	355
Ion Ratio	Lower	Upper	
82	100		
128	65.5	34.6	51.8#
54	60.8	36.2	54.4#

Manual Integrations
APPROVED

mohammad
8/20/2019 8:44:12 AM

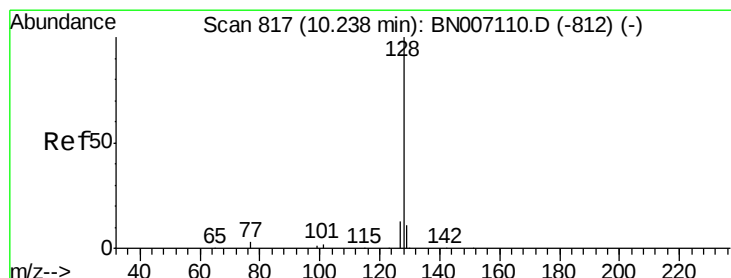
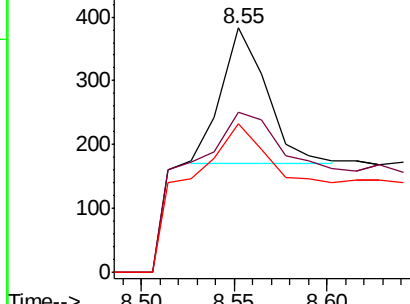
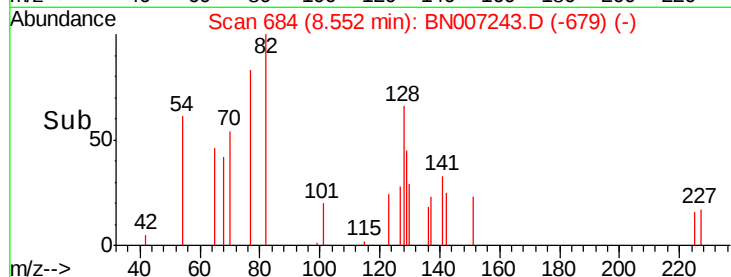


Abundance Ion 82.00 (81.70 to 82.70): BN007110.D (-681) (-)

Ion 128.00 (127.70 to 128.70): BN007110.D (-681) (-)

Ion 54.00 (53.70 to 54.70): BN007110.D (-681) (-)

Time-->



#8

Naphthalene

Concen: 0.120 ng

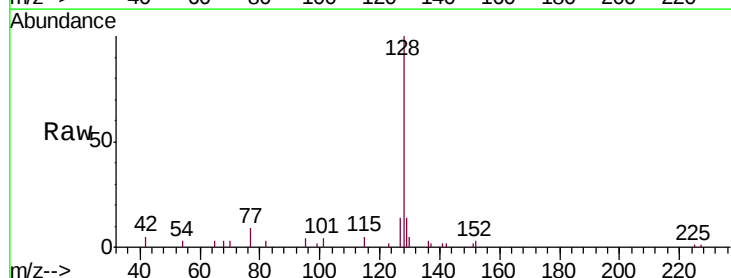
RT: 10.22 min Scan# 816

Delta R.T. -0.01 min

Lab File: BN007243.D

Acq: 17 Aug 2019 04:29

Tgt Ion:	128	Resp:	9280
Ion Ratio	Lower	Upper	
128	100		
129	14.0	9.4	14.2
127	14.4	11.0	16.6

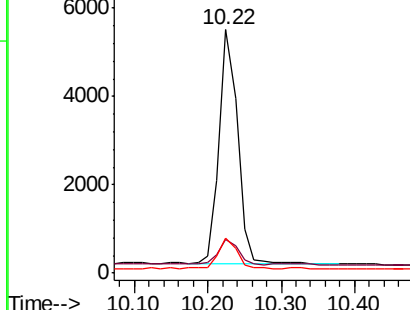
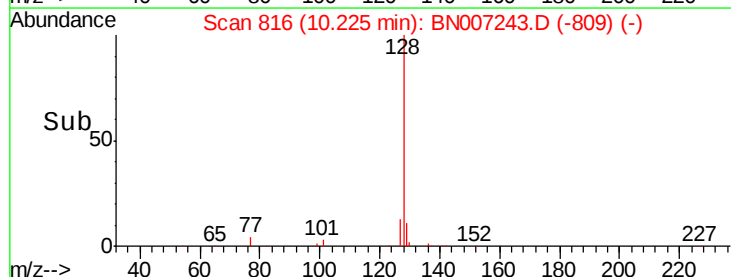


Abundance Ion 128.00 (127.70 to 128.70): BN007110.D (-812) (-)

Ion 129.00 (128.70 to 129.70): BN007110.D (-812) (-)

Ion 127.00 (126.70 to 127.70): BN007110.D (-812) (-)

Time-->





#10

2-Methylnaphthalene-d10

Concen: 0.015 ng

RT: 11.78 min Scan# 979

Delta R.T. -0.01 min

Lab File: BN007243.D

Acq: 17 Aug 2019 04:29

Instrument :

BNA_N

ClientSampleId :

EXT-015-SW085-080119-1DL

Tgt Ion:152 Resp: 753

Ion Ratio Lower Upper

152 100

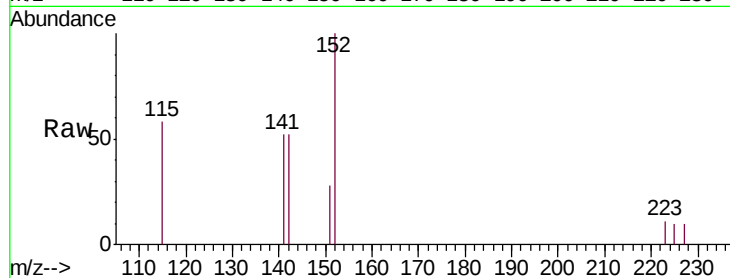
151 22.2 15.5 23.3

Manual Integrations

APPROVED

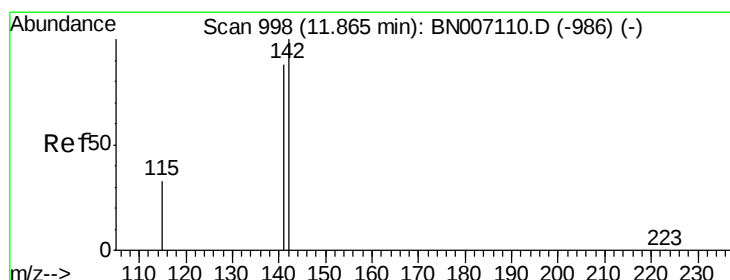
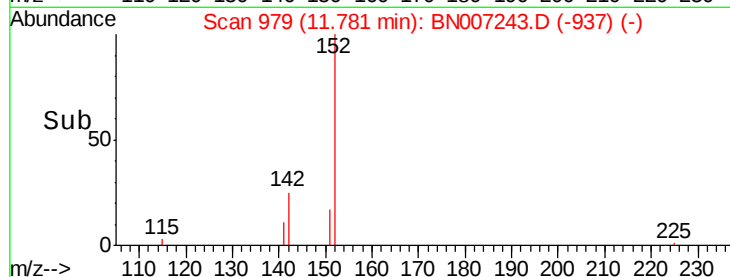
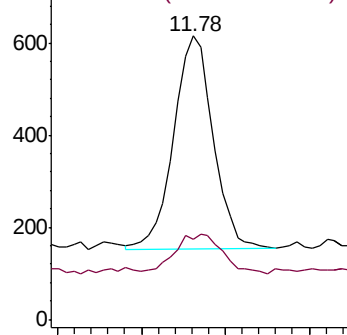
mohammad

8/20/2019 8:44:12 AM



Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E



#11

2-Methylnaphthalene

Concen: 0.146 ng

RT: 11.86 min Scan# 996

Delta R.T. -0.01 min

Lab File: BN007243.D

Acq: 17 Aug 2019 04:29

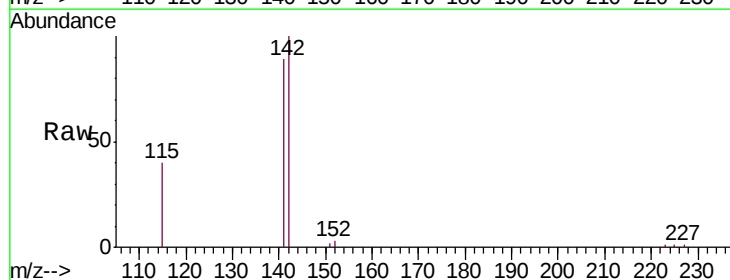
Tgt Ion:142 Resp: 8001

Ion Ratio Lower Upper

142 100

141 89.4 69.0 103.6

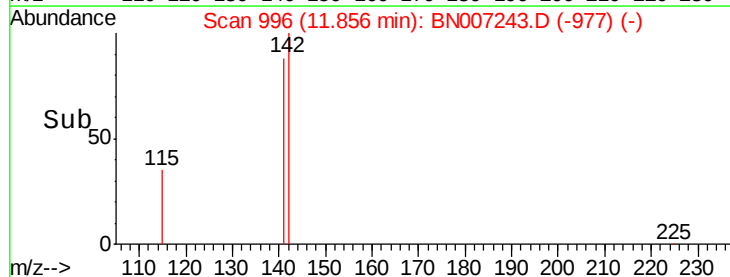
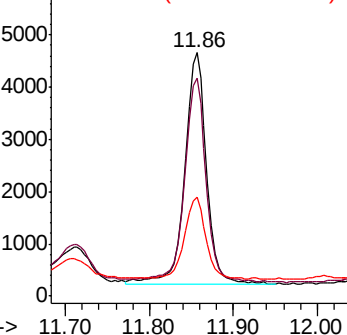
115 40.5 27.1 40.7



Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E

Ion 115.00 (114.70 to 115.70): E





#12

Acenaphthene-d10

Concen: 0.400 ng

RT: 14.07 min Scan# 1309

Delta R.T. -0.01 min

Lab File: BN007243.D

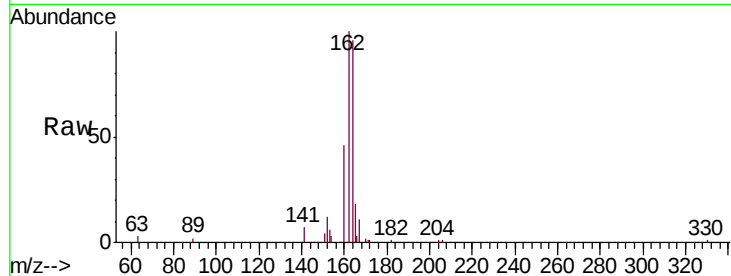
Acq: 17 Aug 2019 04:29

Instrument :

BNA_N

ClientSampleId :

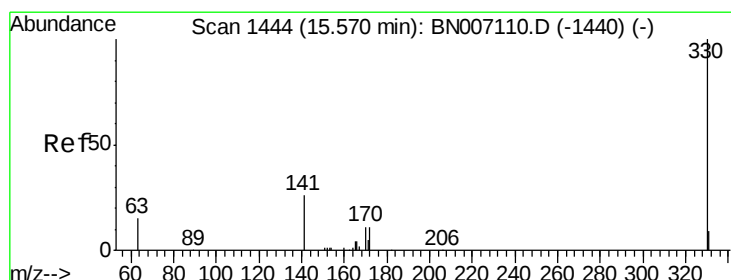
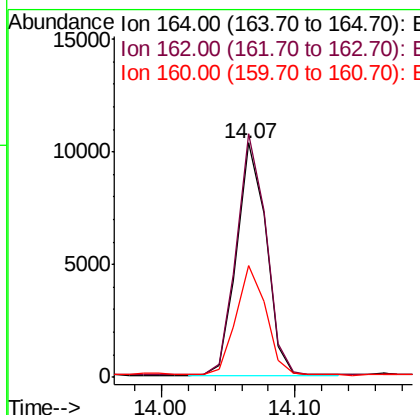
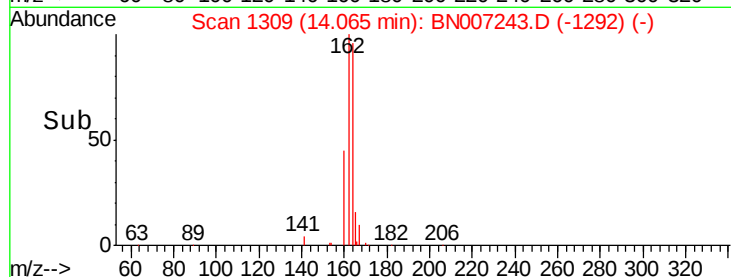
EXT-015-SW085-080119-1DL



Tgt Ion	Ratio	Resp	Lower	Upper
164	100			
162	103.8	82.2	123.4	
160	47.5	38.3	57.5	

Manual Integrations
APPROVED

mohammad
8/20/2019 8:44:12 AM



#13

2,4,6-Tribromophenol

Concen: 0.025 ng

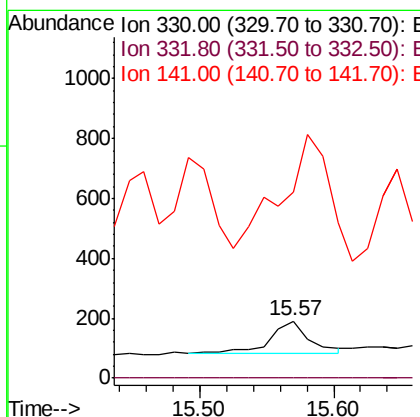
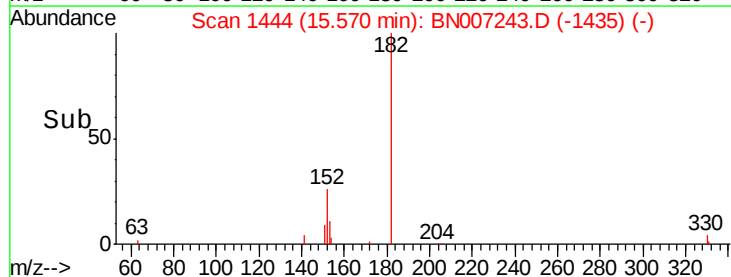
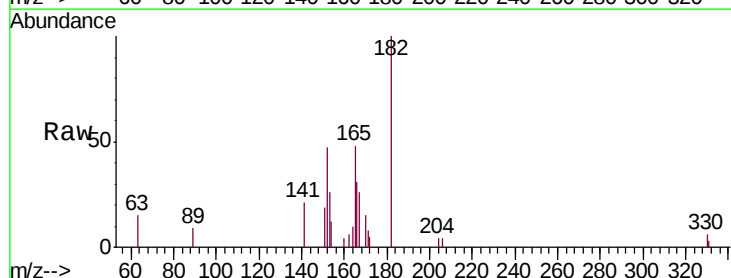
RT: 15.57 min Scan# 1444

Delta R.T. -0.00 min

Lab File: BN007243.D

Acq: 17 Aug 2019 04:29

Tgt Ion	Ratio	Resp	Lower	Upper
330	100			
332	0.0	0.0	0.0	
141	517.5	33.6	50.4#	





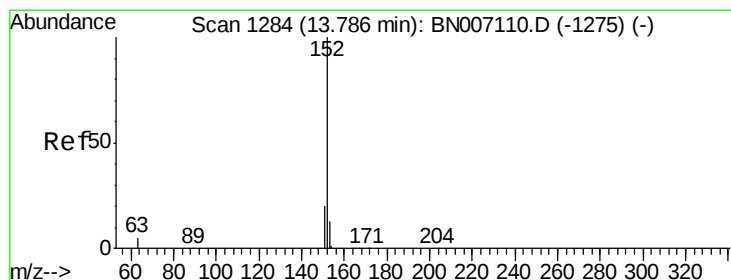
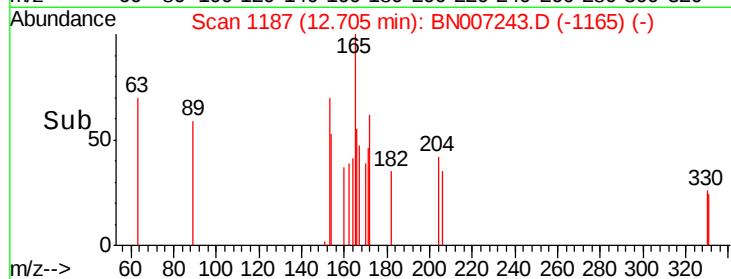
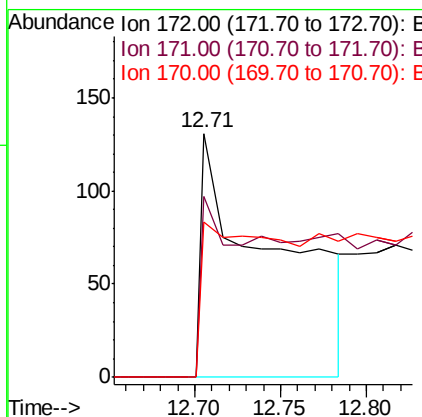
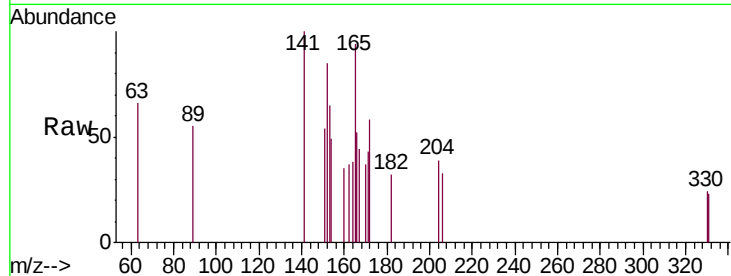
#14
2-Fluorobiphenyl
Concen: 0.016 ng
RT: 12.71 min Scan# 1187
Delta R.T. -0.00 min
Lab File: BN007243.D
Acq: 17 Aug 2019 04:29

Instrument :
BNA_N
ClientSampleId :
EXT-015-SW085-080119-1DL

Tgt Ion	Ratio	Lower	Upper
172	100		
171	74.0	26.3	39.5#
170	63.4	17.0	25.4#

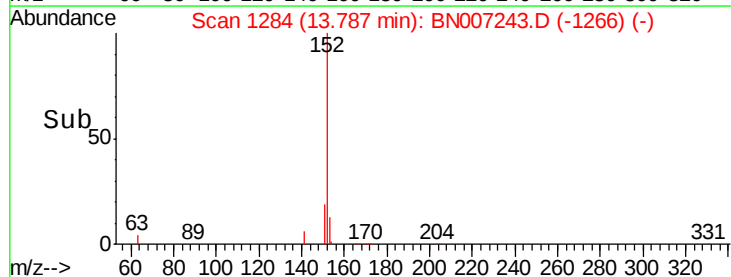
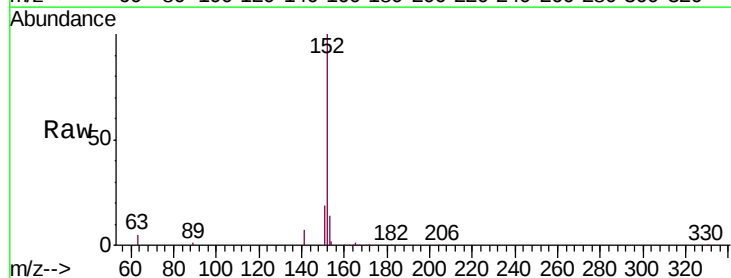
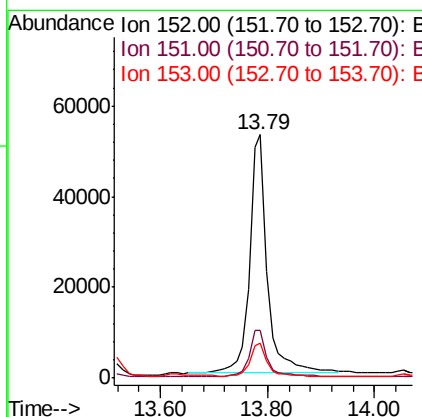
Manual Integrations
APPROVED

mohammad
8/20/2019 8:44:12 AM



#15
Acenaphthylene
Concen: 1.469 ng
RT: 13.79 min Scan# 1284
Delta R.T. -0.00 min
Lab File: BN007243.D
Acq: 17 Aug 2019 04:29

Tgt Ion	Ratio	Lower	Upper
152	100		
151	19.9	15.8	23.6
153	13.0	10.4	15.6





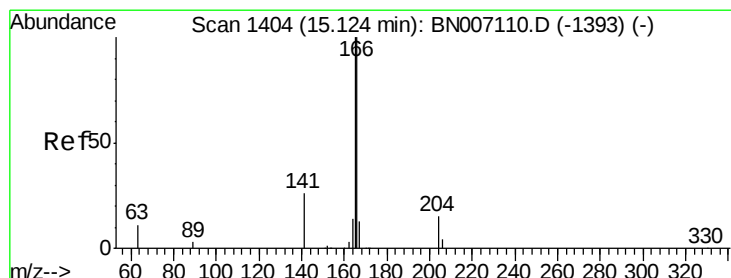
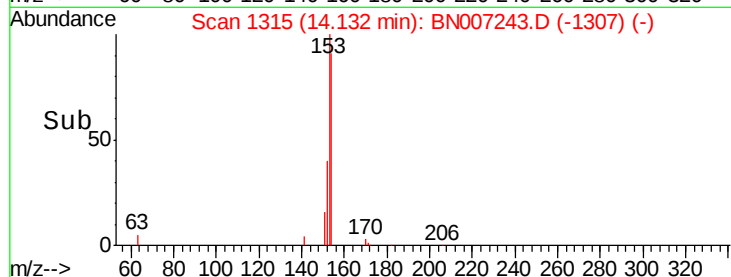
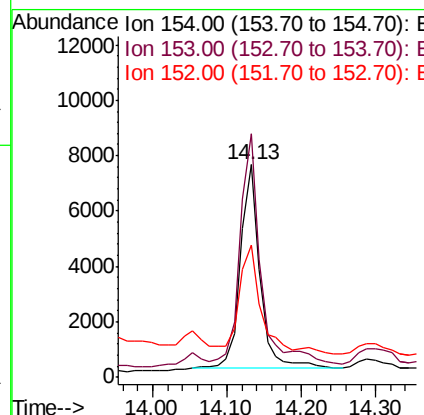
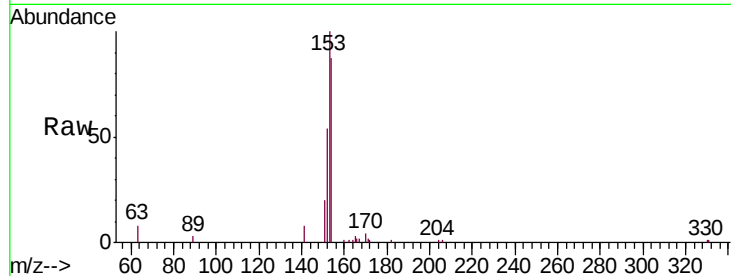
#16
Acenaphthene
Concen: 0.254 ng
RT: 14.13 min Scan# 1315
Delta R.T. -0.01 min
Lab File: BN007243.D
Acq: 17 Aug 2019 04:29

Instrument :
BNA_N
ClientSampleId :
EXT-015-SW085-080119-1DL

Tgt Ion:	154	Resp:	13361
Ion Ratio	Lower	Upper	
154	100		
153	119.1	89.5	134.3
152	62.0	44.8	67.2

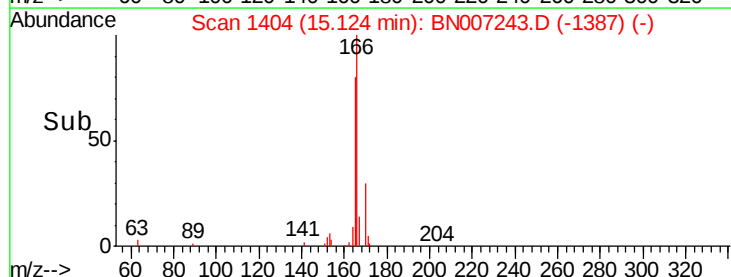
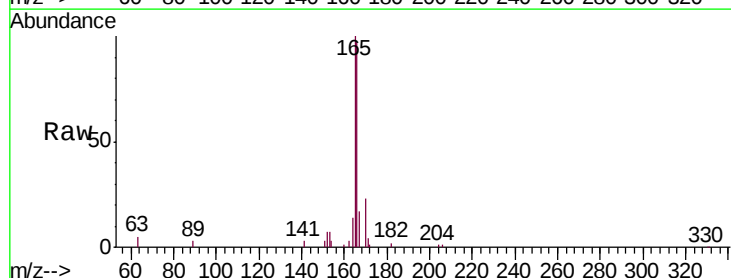
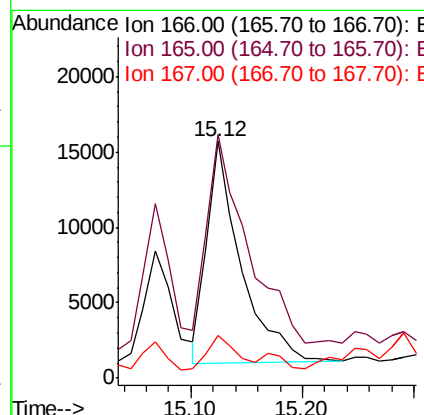
Manual Integrations
APPROVED

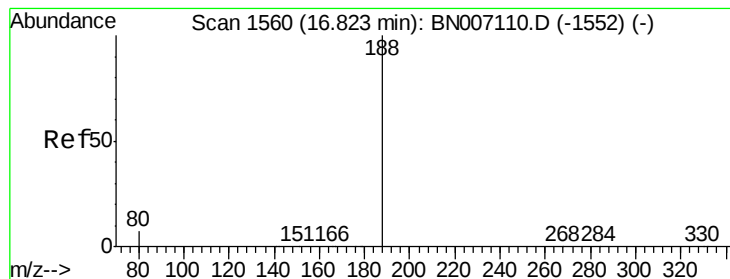
mohammad
8/20/2019 8:44:12 AM



#17
Fluorene
Concen: 0.395 ng
RT: 15.12 min Scan# 1404
Delta R.T. -0.01 min
Lab File: BN007243.D
Acq: 17 Aug 2019 04:29

Tgt Ion:	166	Resp:	31154
Ion Ratio	Lower	Upper	
166	100		
165	118.6	77.9	116.9#
167	13.1	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: BN007243.D

Acq: 17 Aug 2019 04:29

Instrument :

BNA_N

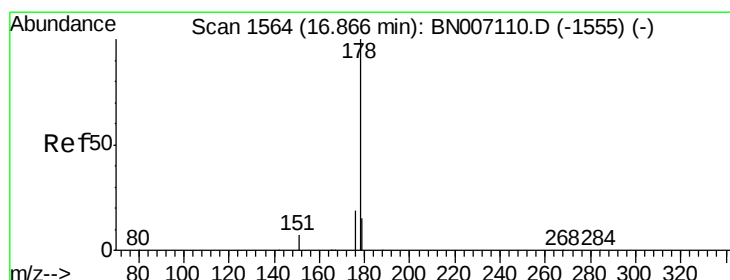
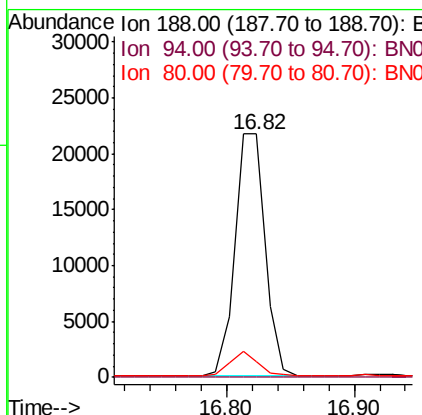
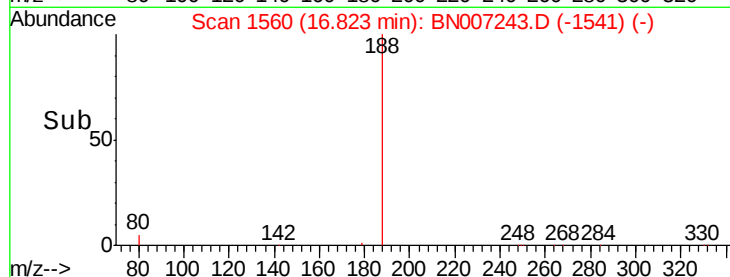
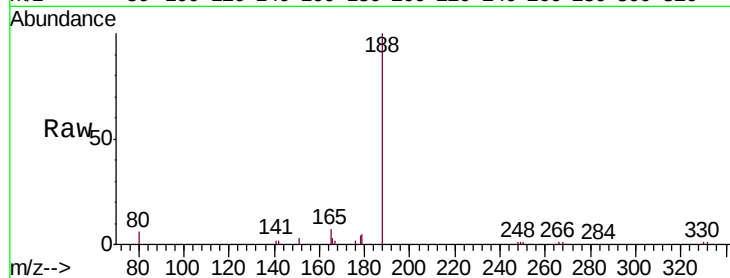
ClientSampleId :

EXT-015-SW085-080119-1DL

Tgt Ion:	188	Resp:	35587
Ion Ratio	Lower	Upper	
188	100		
94	0.0	0.0	0.0
80	6.4	7.8	11.6#

Manual Integrations
APPROVED

mohammad
8/20/2019 8:44:12 AM



#22

Phenanthrene

Concen: 4.618 ng

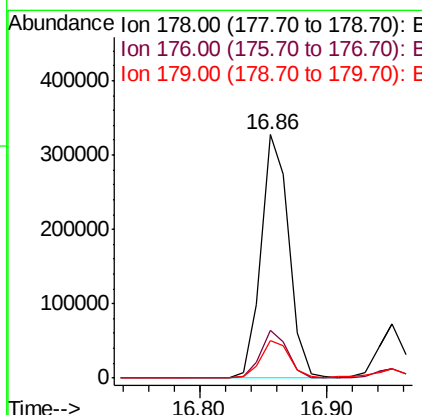
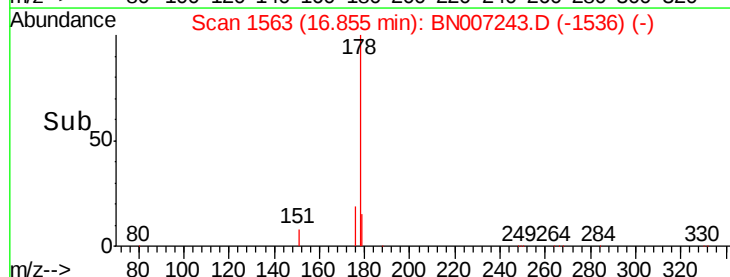
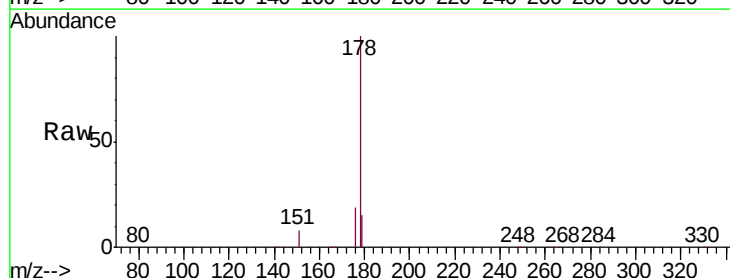
RT: 16.86 min Scan# 1563

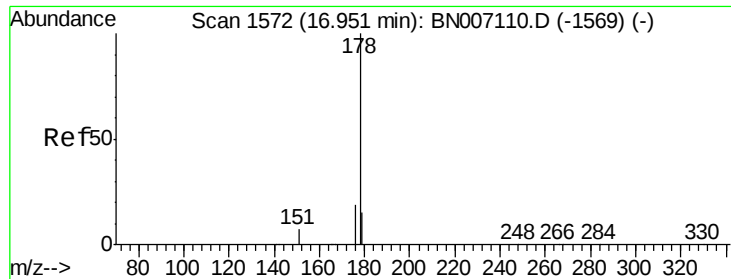
Delta R.T. -0.01 min

Lab File: BN007243.D

Acq: 17 Aug 2019 04:29

Tgt Ion:	178	Resp:	492565
Ion Ratio	Lower	Upper	
178	100		
176	18.9	15.2	22.8
179	15.8	12.3	18.5





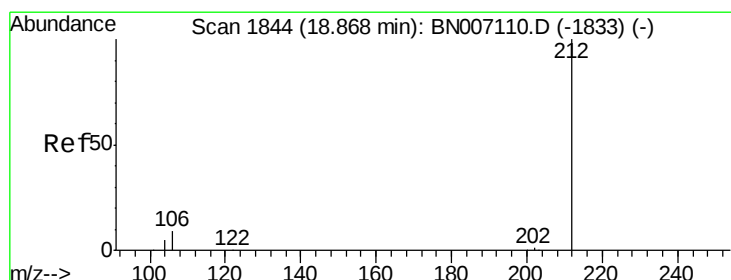
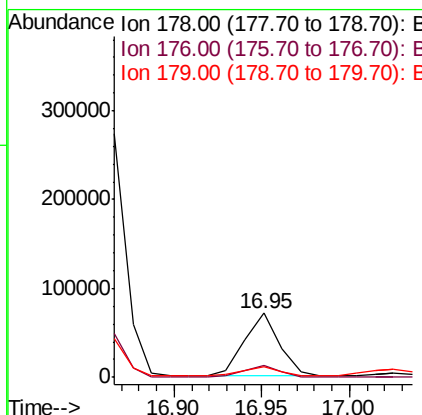
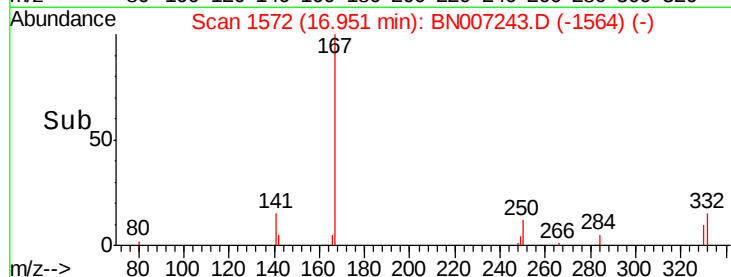
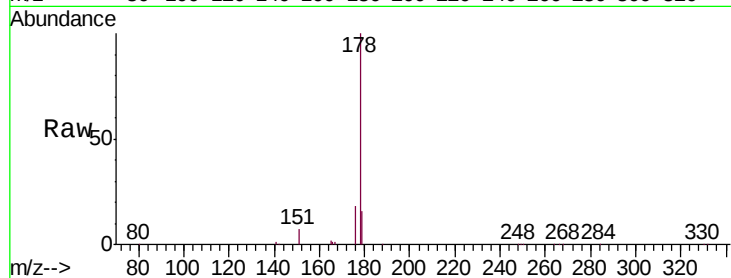
#23
 Anthracene
 Concen: 1.012 ng
 RT: 16.95 min Scan# 1572
 Delta R.T. -0.01 min
 Lab File: BN007243.D
 Acq: 17 Aug 2019 04:29

Instrument :
 BNA_N
 ClientSampleId :
 EXT-015-SW085-080119-1DL

Tgt Ion	Ratio	Lower	Upper
178	100		
176	18.1	14.6	21.8
179	16.8	12.5	18.7

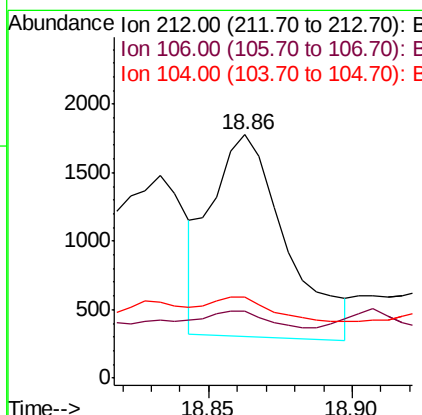
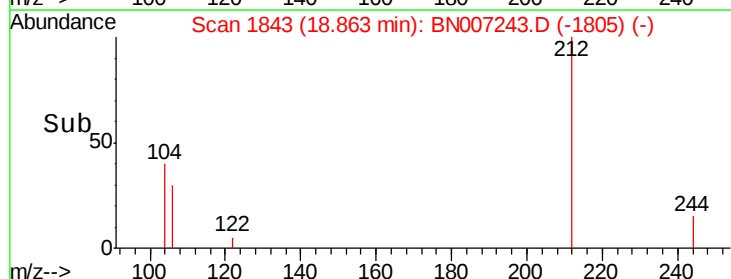
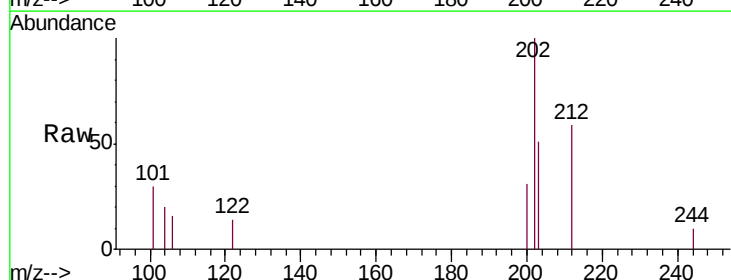
Manual Integrations
 APPROVED

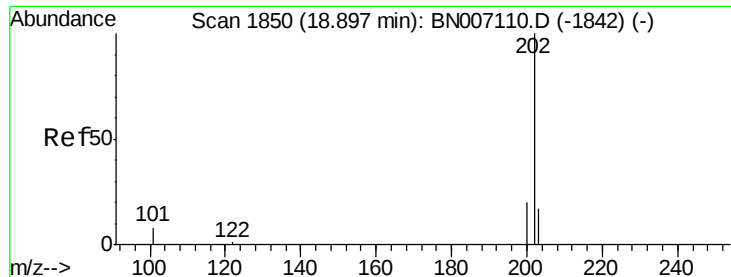
mohammad
 8/20/2019 8:44:12 AM



#24
 Fluoranthene-d10
 Concen: 0.021 ng m
 RT: 18.86 min Scan# 1843
 Delta R.T. -0.01 min
 Lab File: BN007243.D
 Acq: 17 Aug 2019 04:29

Tgt Ion	Ratio	Lower	Upper
212	100		
106	7.9	8.2	12.2#
104	4.2	4.5	6.7#





#25

Fluoranthene

Concen: 4.980 ng

RT: 18.89 min Scan# 1849

Delta R.T. -0.01 min

Lab File: BN007243.D

Acq: 17 Aug 2019 04:29

Instrument :

BNA_N

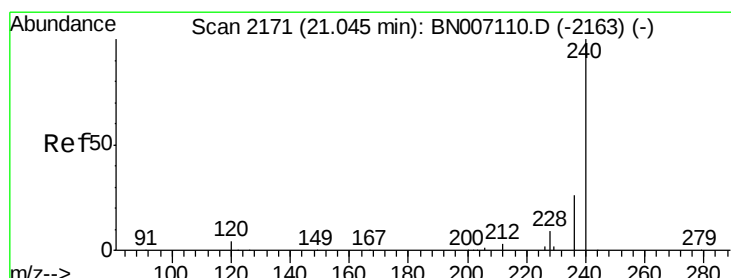
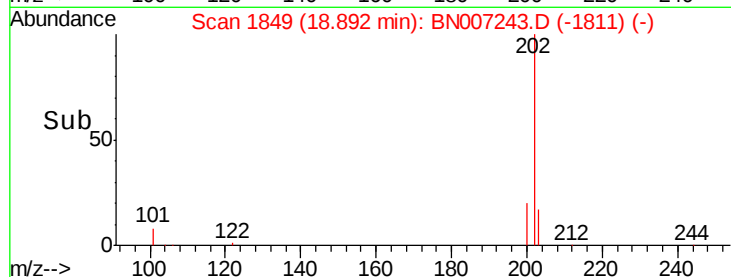
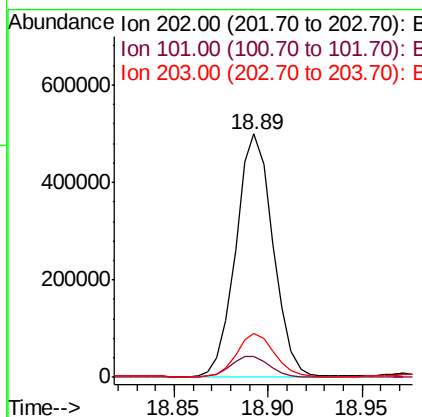
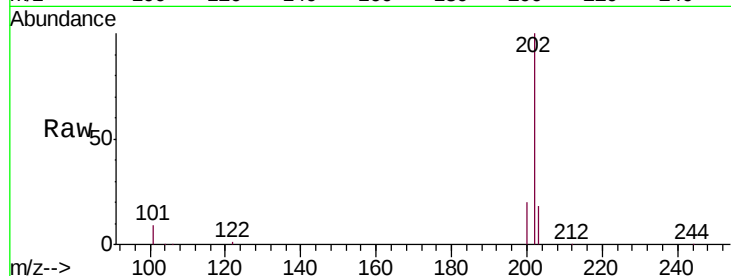
ClientSampleId :

EXT-015-SW085-080119-1DL

Tgt Ion:	202	Resp:	679446
Ion Ratio	Lower	Upper	
202	100		
101	8.9	7.0	10.4
203	17.9	13.8	20.8

Manual Integrations
APPROVED

mohammad
8/20/2019 8:44:12 AM



#26

Chrysene-d12

Concen: 0.400 ng

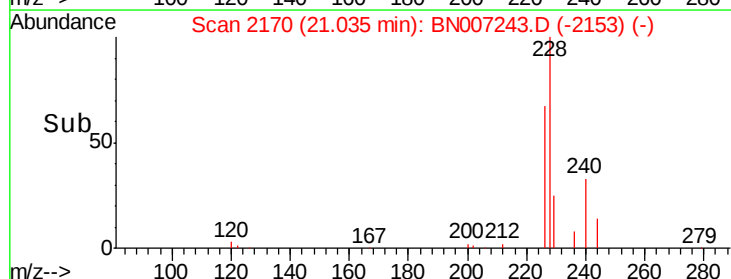
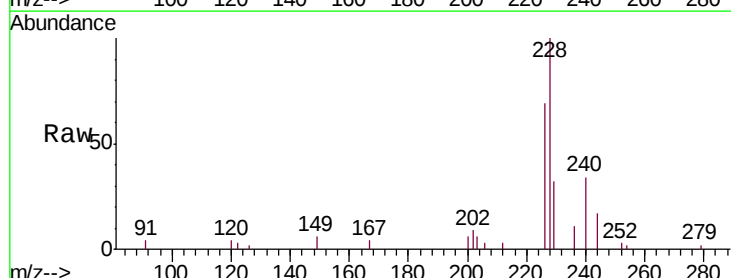
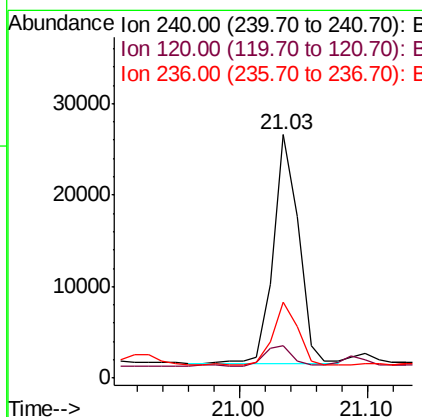
RT: 21.03 min Scan# 2170

Delta R.T. -0.02 min

Lab File: BN007243.D

Acq: 17 Aug 2019 04:29

Tgt Ion:	240	Resp:	34110
Ion Ratio	Lower	Upper	
240	100		
120	13.1	4.0	6.0#
236	31.2	21.3	31.9





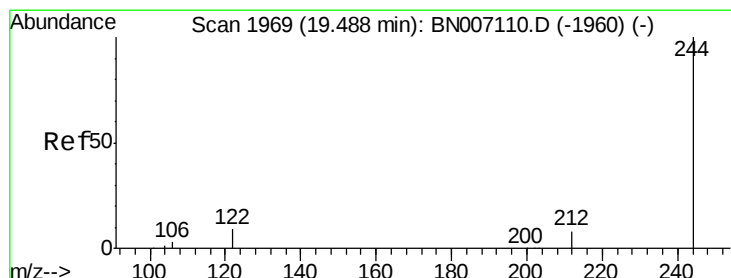
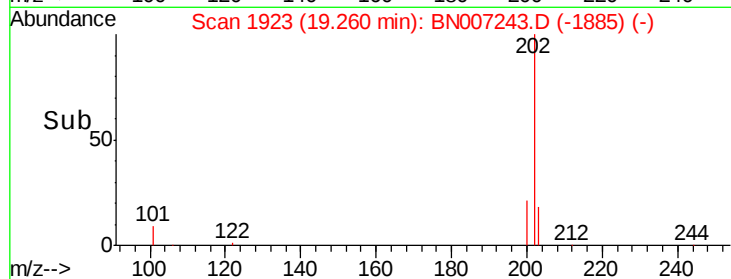
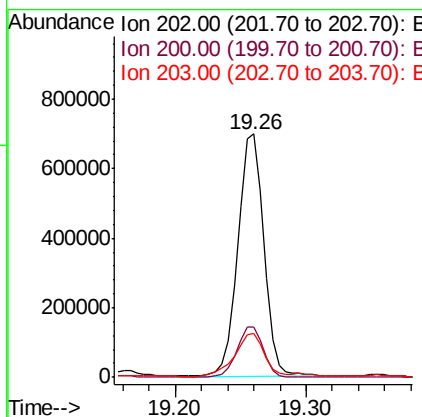
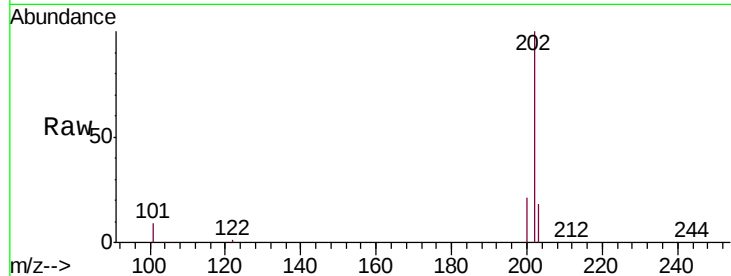
#27
 Pyrene
 Concen: 8.164 ng
 RT: 19.26 min Scan# 1923
 Delta R.T. -0.01 min
 Lab File: BN007243.D
 Acq: 17 Aug 2019 04:29

Instrument :
 BNA_N
 ClientSampleId :
 EXT-015-SW085-080119-1DL

Tgt Ion:	202	Resp:	976540
Ion Ratio	Lower	Upper	
202	100		
200	20.9	16.6	24.8
203	20.0	14.0	21.0

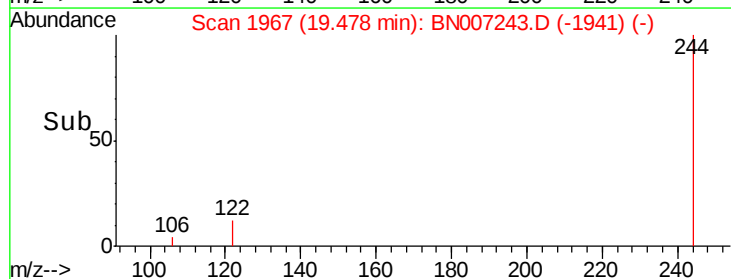
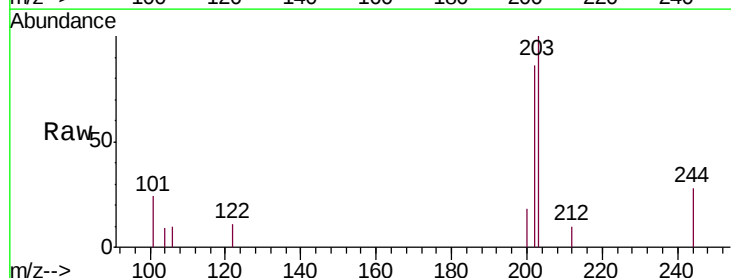
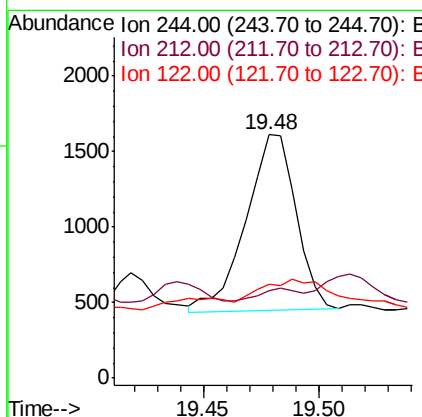
Manual Integrations
 APPROVED

mohammad
 8/20/2019 8:44:12 AM



#28
 Terphenyl-d14
 Concen: 0.019 ng
 RT: 19.48 min Scan# 1967
 Delta R.T. -0.02 min
 Lab File: BN007243.D
 Acq: 17 Aug 2019 04:29

Tgt Ion:	244	Resp:	1746
Ion Ratio	Lower	Upper	
244	100		
212	35.7	6.2	9.2#
122	38.3	7.4	11.2#





#29

Benzo(a)anthracene

Concen: 3.396 ng m

RT: 21.02 min Scan# 2169

Delta R.T. -0.01 min

Lab File: BN007243.D

Acq: 17 Aug 2019 04:29

Instrument :

BNA_N

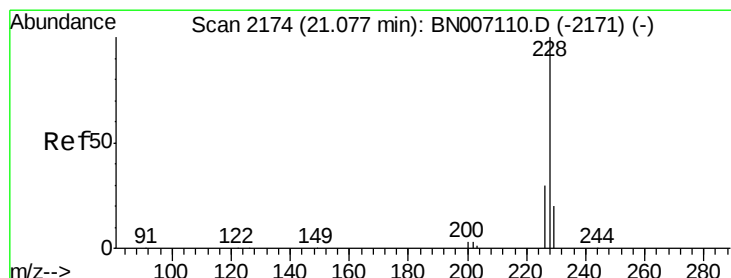
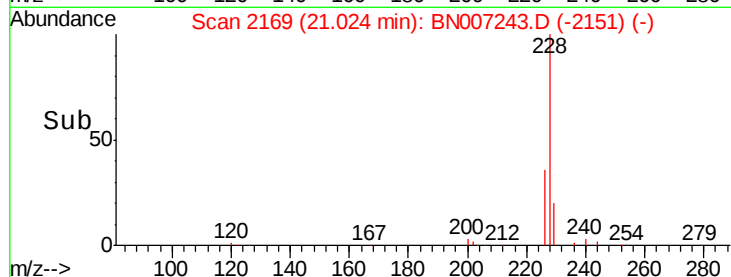
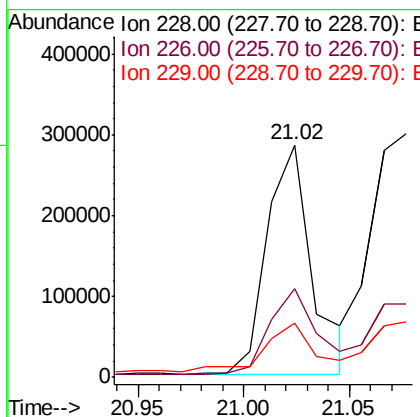
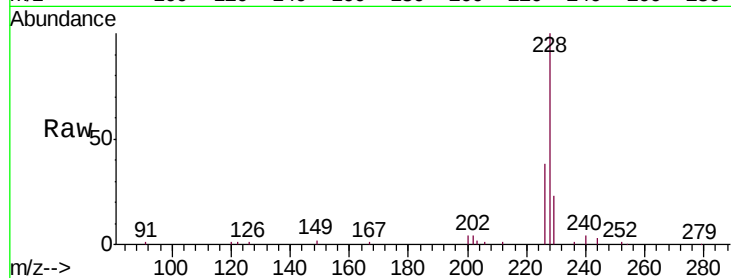
ClientSampleId :

EXT-015-SW085-080119-1DL

Tgt Ion:	228	Resp:	423624
Ion Ratio	Lower	Upper	
228	100		
226	38.1	21.8	32.6#
229	23.2	15.6	23.4

Manual Integrations
APPROVED

mohammad
8/20/2019 8:44:12 AM



#30

Chrysene

Concen: 3.923 ng

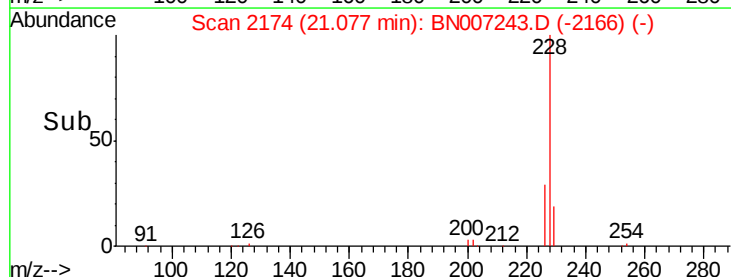
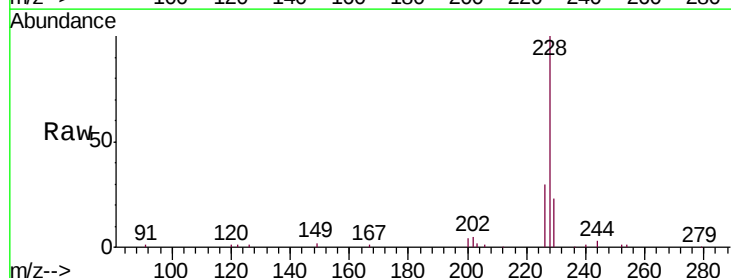
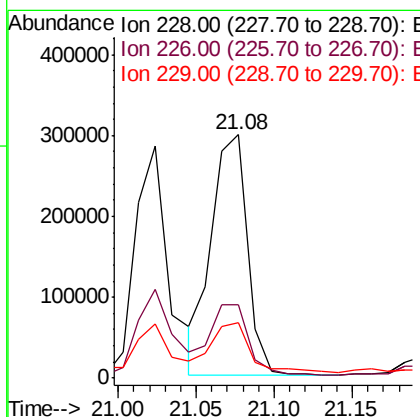
RT: 21.08 min Scan# 2174

Delta R.T. -0.01 min

Lab File: BN007243.D

Acq: 17 Aug 2019 04:29

Tgt Ion:	228	Resp:	475409
Ion Ratio	Lower	Upper	
228	100		
226	30.3	23.8	35.6
229	22.8	15.7	23.5





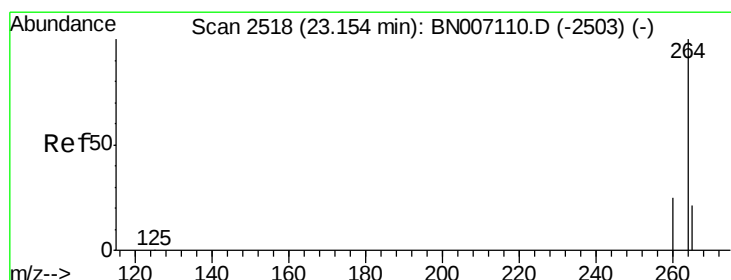
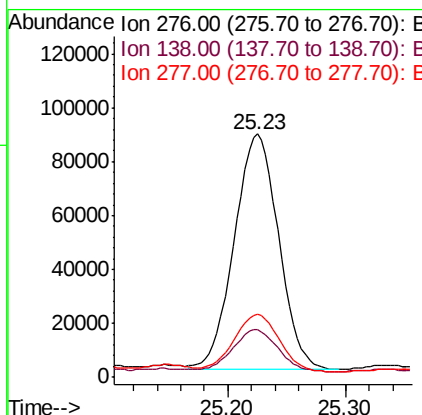
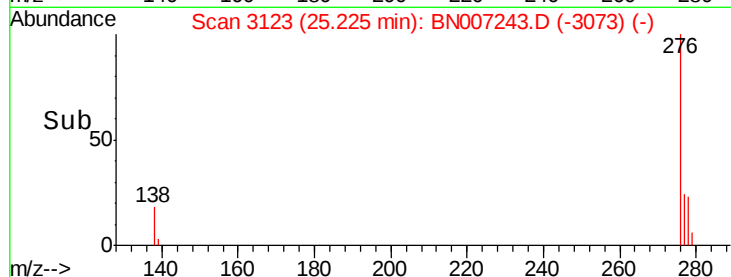
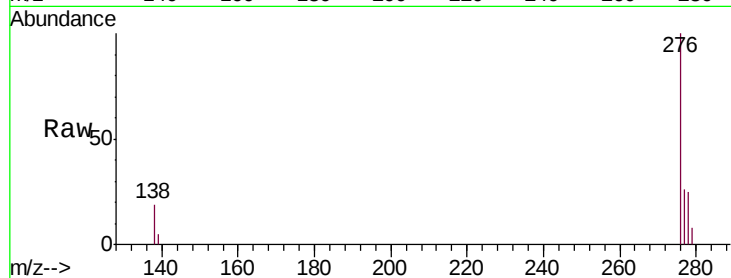
#31
 Indeno(1,2,3-cd)pyrene
 Concen: 1.701 ng
 RT: 25.23 min Scan# 3123
 Delta R.T. -0.03 min
 Lab File: BN007243.D
 Acq: 17 Aug 2019 04:29

Instrument :
 BNA_N
 ClientSampleId :
 EXT-015-SW085-080119-1DL

Tgt Ion	Ratio	Resp	Lower	Upper
276	100	227153		
138	18.2	16.0	24.0	
277	24.9	19.9	29.9	

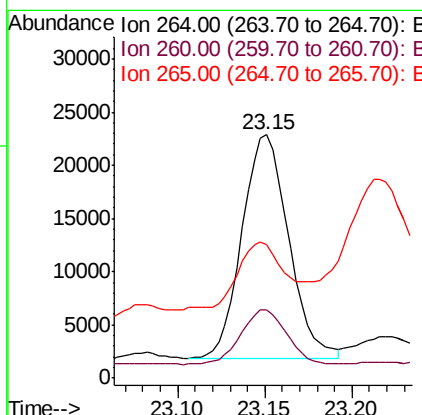
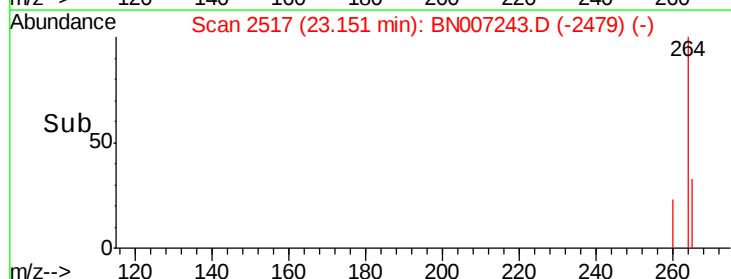
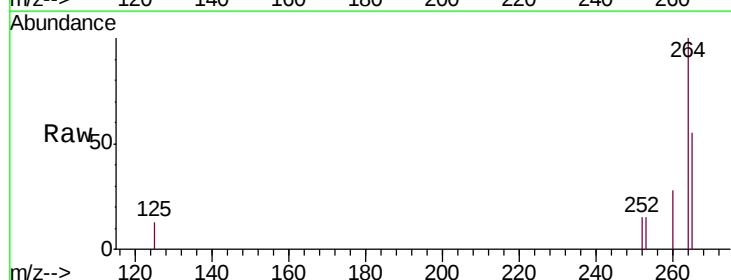
Manual Integrations
 APPROVED

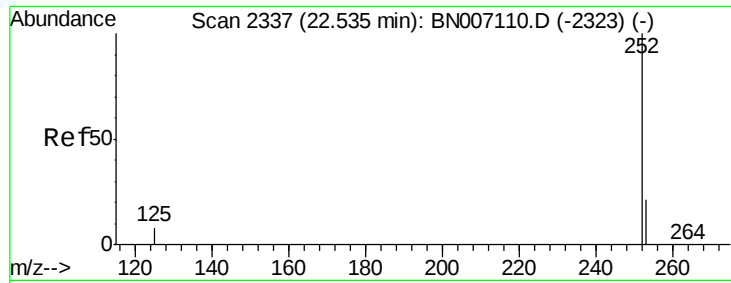
mohammad
 8/20/2019 8:44:12 AM



#32
 Perylene-d12
 Concen: 0.400 ng
 RT: 23.15 min Scan# 2517
 Delta R.T. -0.02 min
 Lab File: BN007243.D
 Acq: 17 Aug 2019 04:29

Tgt Ion	Ratio	Resp	Lower	Upper
264	100	39126		
260	27.8	19.8	29.8	
265	54.7	26.2	39.4	





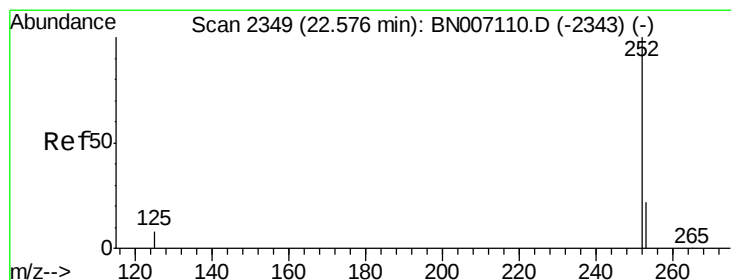
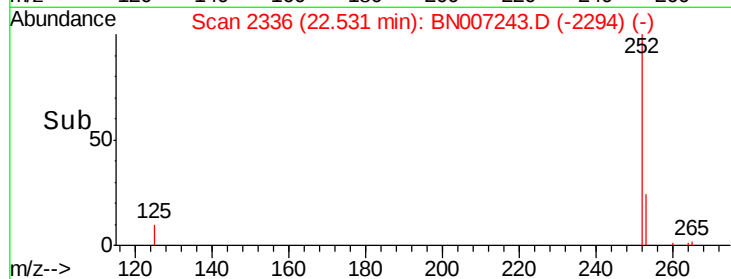
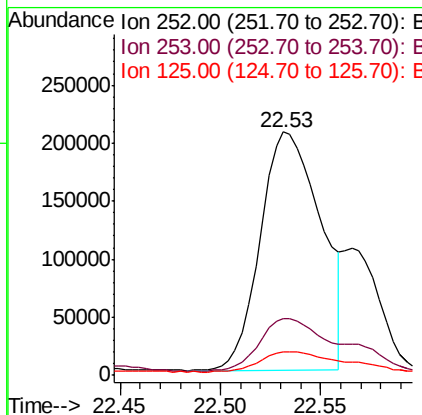
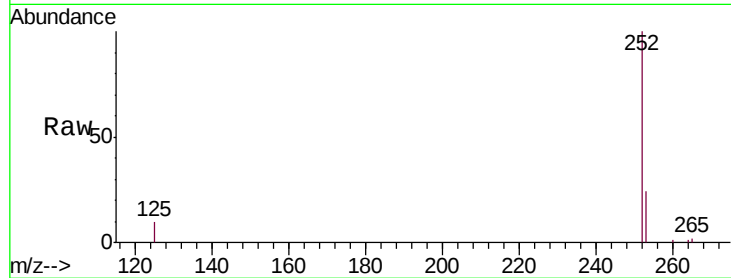
#33
Benzo(b)fluoranthene
Concen: 3.238 ng m
RT: 22.53 min Scan# 2336
Delta R.T. -0.02 min
Lab File: BN007243.D
Acq: 17 Aug 2019 04:29

Instrument :
BNA_N
ClientSampleId :
EXT-015-SW085-080119-1DL

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.5	18.2	27.2
125	9.6	7.4	11.0

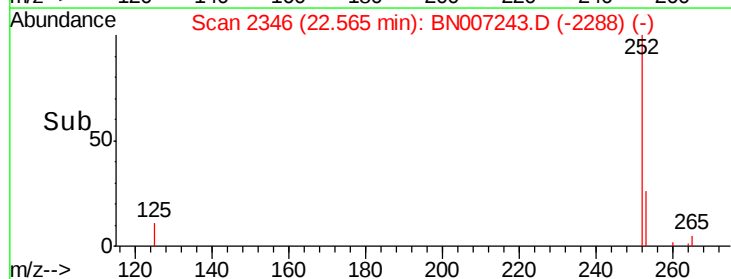
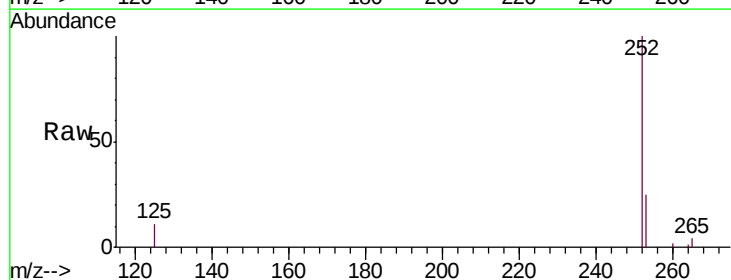
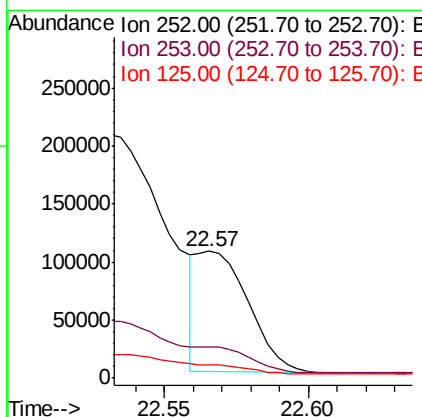
Manual Integrations
APPROVED

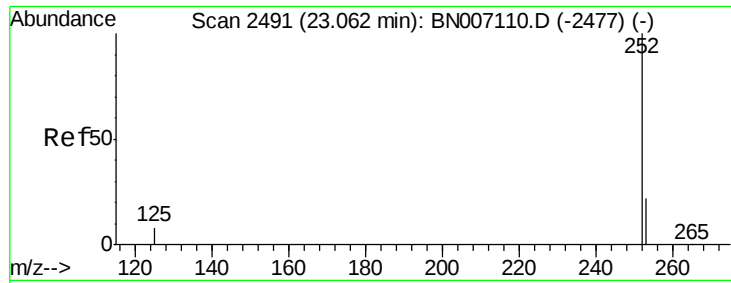
mohammad
8/20/2019 8:44:12 AM



#34
Benzo(k)fluoranthene
Concen: 0.967 ng m
RT: 22.57 min Scan# 2346
Delta R.T. -0.02 min
Lab File: BN007243.D
Acq: 17 Aug 2019 04:29

Tgt Ion	Ratio	Lower	Upper
252	100		
253	24.9	18.1	27.1
125	10.8	7.4	11.0





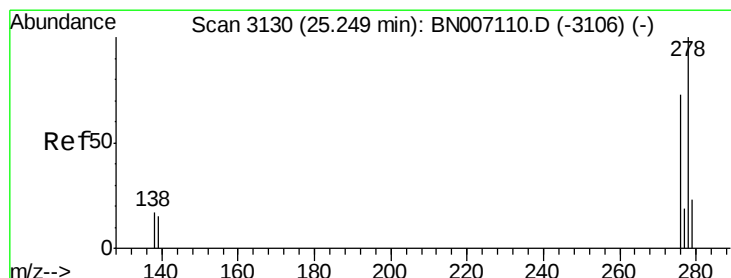
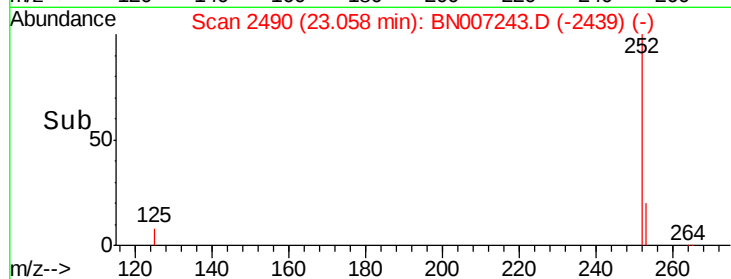
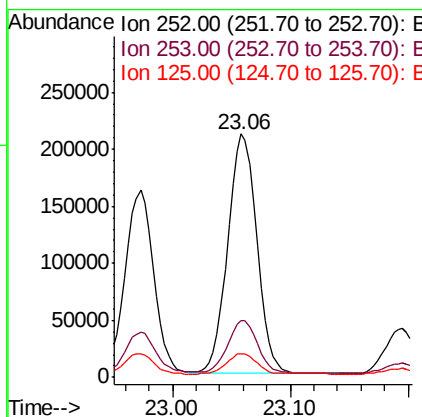
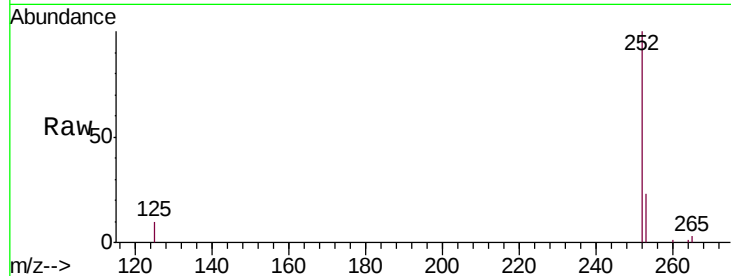
#35
Benzo(a)pyrene
Concen: 2.963 ng
RT: 23.06 min Scan# 2490
Delta R.T. -0.02 min
Lab File: BN007243.D
Acq: 17 Aug 2019 04:29

Instrument :
BNA_N
ClientSampleId :
EXT-015-SW085-080119-1DL

Tgt Ion	Ratio	Resp	Lower	Upper
252	100	360398		
253	23.3	18.5	27.7	
125	9.9	8.2	12.4	

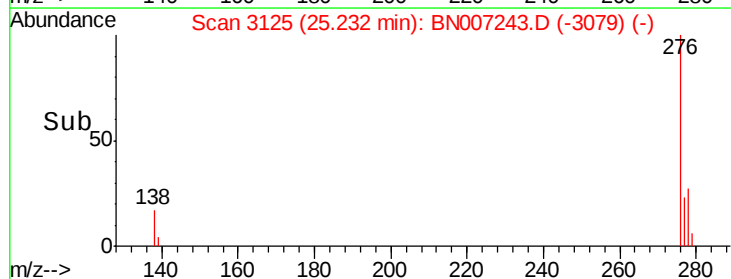
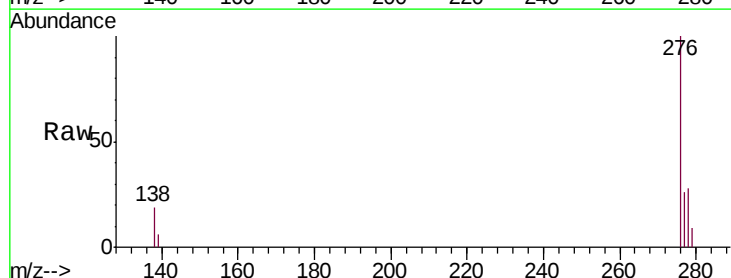
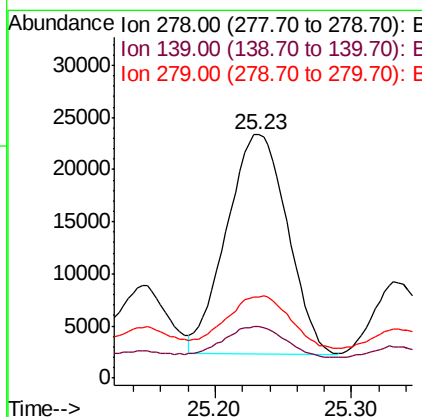
Manual Integrations
APPROVED

mohammad
8/20/2019 8:44:12 AM



#36
Dibenzo(a,h)anthracene
Concen: 0.540 ng
RT: 25.23 min Scan# 3125
Delta R.T. -0.04 min
Lab File: BN007243.D
Acq: 17 Aug 2019 04:29

Tgt Ion	Ratio	Resp	Lower	Upper
278	100	65474		
139	21.3	11.3	16.9#	
279	33.5	19.3	28.9#	





#37
 Benzo(g,h,i)perylene
 Concen: 2.038 ng
 RT: 25.85 min Scan# 3307
 Delta R.T. -0.02 min
 Lab File: BN007243.D
 Acq: 17 Aug 2019 04:29

Instrument :
 BNA_N
 ClientSampleId :
 EXT-015-SW085-080119-1DL

Tgt Ion:	276	Resp:	254439
Ion Ratio	Lower	Upper	
276	100		
277	25.4	19.8	29.8
138	19.4	14.6	22.0

Manual Integrations
 APPROVED

mohammad
 8/20/2019 8:44:12 AM

