

Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN081619\
 Data File : BN007238.D
 Acq On : 17 Aug 2019 01:27
 Operator : HP/JU
 Sample : K4282-13
 Misc :
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 EXT-015-SW083-080819

Manual Integrations
 APPROVED

mohammad
 8/20/2019 8:43:56 AM

Quant Time: Aug 19 04:09:39 2019

Quant Method : Z:\SVOASRV\HPCHEM1\BNA N\METHODS\8270-SIM-BN081019.M

Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

QLast Update : Tue Aug 13 12:12:02 2019

Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.42	152	7607	0.40	ng	-0.02
6) Naphthalene-d8	10.17	136	29841	0.40	ng	-0.01
12) Acenaphthene-d10	14.07	164	17167	0.40	ng	-0.01
18) Phenanthrene-d10	16.81	188	38891	0.40	ng	-0.01
26) Chrysene-d12	21.03	240	37494	0.40	ng	-0.02
32) Perylene-d12	23.15	264	42308	0.40	ng	-0.02

System Monitoring Compounds

3) 2-Fluorophenol	5.05	112	4691	0.26	ng	0.00
4) Phenol-d6	6.61	99	6344	0.28	ng	0.00
7) Nitrobenzene-d5	8.55	82	5305	0.22	ng	-0.01
10) 2-Methylnaphthalene-d10	11.78	152	10322	0.19	ng	-0.01
13) 2,4,6-Tribromophenol	15.57	330	1804	0.20	ng	0.00
14) 2-Fluorobiphenyl	12.71	172	664	0.03	ng	0.00
24) Fluoranthene-d10	18.86	212	24583	0.18	ng	-0.01
28) Terphenyl-d14	19.48	244	16616	0.16	ng	-0.02

Target Compounds

						Qvalue
8) Naphthalene	10.22	128	18955	0.227	ng	99
11) 2-Methylnaphthalene	11.85	142	16049	0.271	ng	96
15) Acenaphthylene	13.78	152	187686	2.092	ng	99
16) Acenaphthene	14.13	154	13567	0.236	ng	94
17) Fluorene	15.12	166	41645	0.484	ng	83
22) Phenanthrene	16.86	178	668995	5.740	ng	100
23) Anthracene	16.95	178	155631	1.461	ng	99
25) Fluoranthene	18.89	202	779749	5.230	ng	99
27) Pyrene	19.25	202	1050548	7.990	ng	98
29) Benzo(a)anthracene	21.01	228	406124m	2.962	ng	
30) Chrysene	21.07	228	538348	4.041	ng	96
31) Indeno(1,2,3-cd)pyrene	25.22	276	251561	1.713	ng	98
33) Benzo(b)fluoranthene	22.53	252	504303	3.476	ng	99
34) Benzo(k)fluoranthene	22.56	252	128908m	0.900	ng	
35) Benzo(a)pyrene	23.05	252	377508	2.870	ng	99
36) Dibenzo(a,h)anthracene	25.23	278	68939	0.525	ng	# 86
37) Benzo(a,h,i)perylene	25.85	276	286339	2.121	ng	99

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

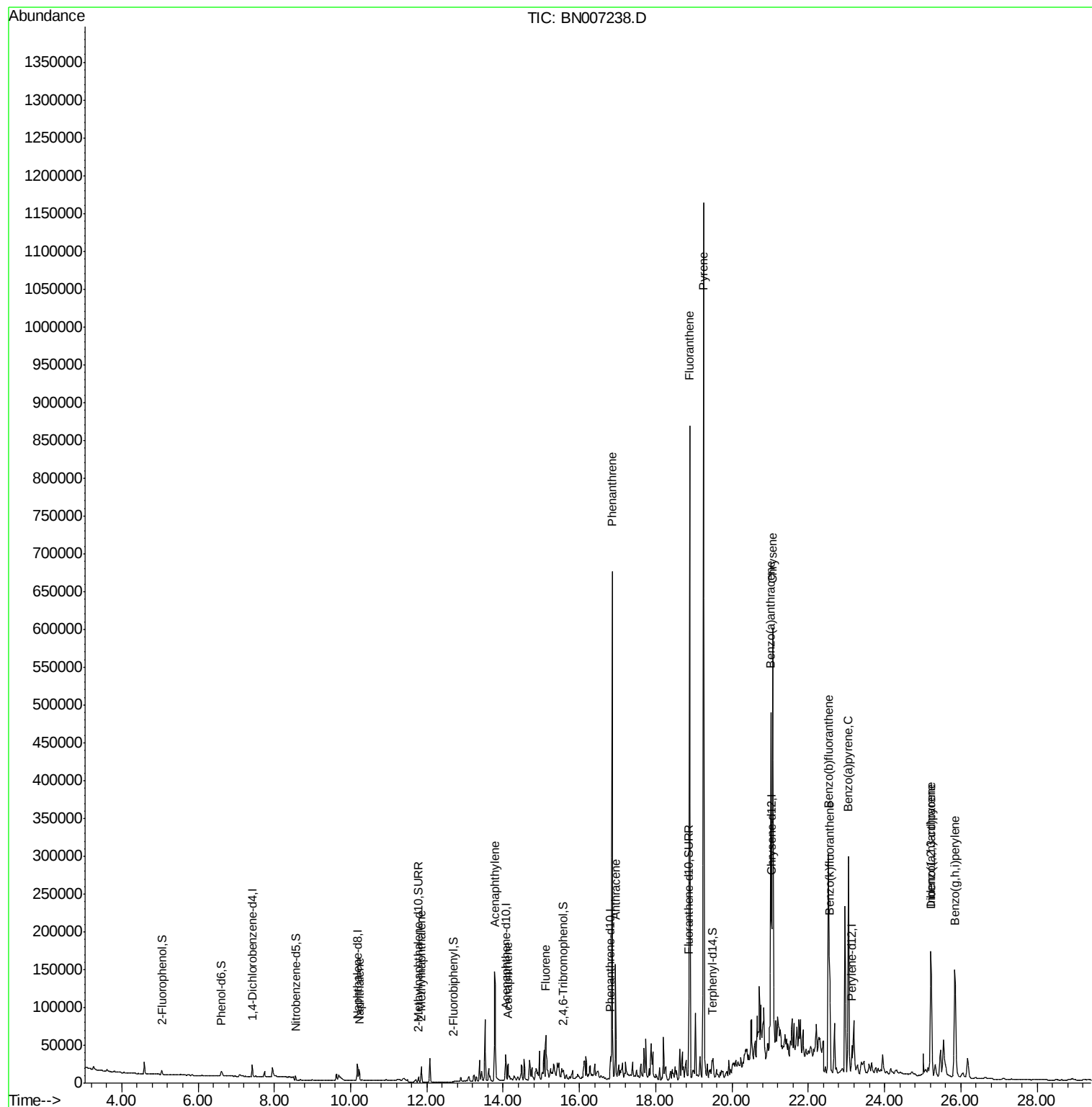
Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN081619\
Data File : BN007238.D
Acq On : 17 Aug 2019 01:27
Operator : HP/JU
Sample : K4282-13
Misc :
ALS Vial : 19 Sample Multiplier: 1

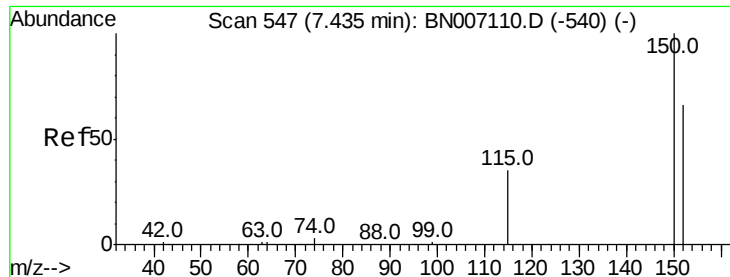
Instrument :
BNA_N
ClientSampleId :
EXT-015-SW083-080819

Manual Integrations
APPROVED

mohammad
8/20/2019 8:43:56 AM

Quant Time: Aug 19 04:09:39 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

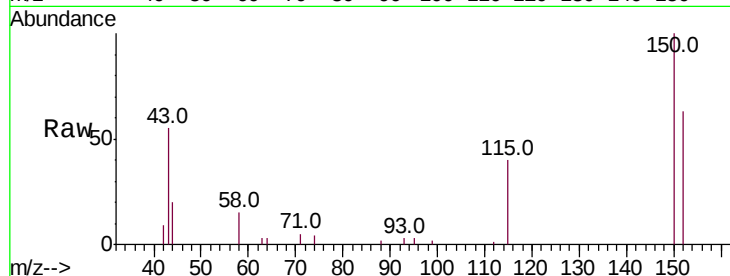
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.42 min Scan# 545
Delta R.T. -0.02 min
Lab File: BN007238.D
Acq: 17 Aug 2019 01:27

Instrument :
BNA_N
ClientSampleId :
EXT-015-SW083-080819

Tot Ion	Ratio	Lower	Upper
152	100		
150	157.7	121.7	182.5
115	62.5	46.2	69.4

Manual Integrations
APPROVED

mohammad
8/20/2019 8:43:56 AM

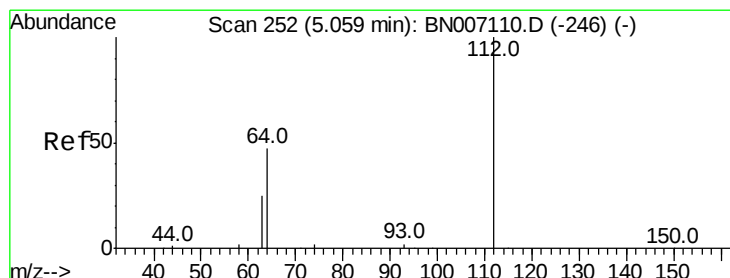
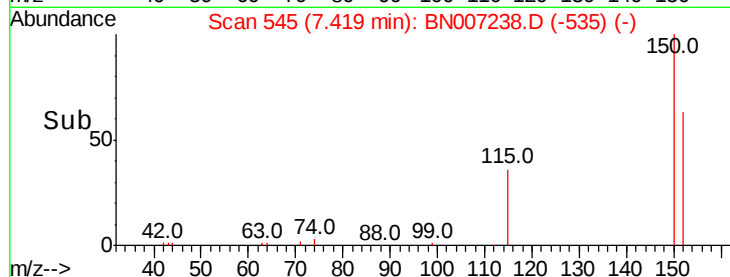
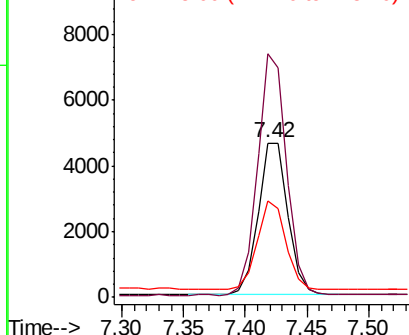


Abundance

Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

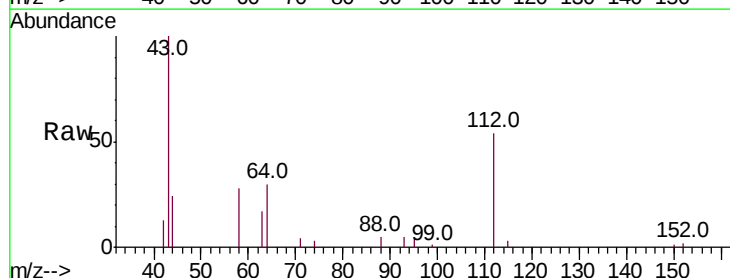
Ion 115.00 (114.70 to 115.70): E



#3

2-Fluorophenol
Concen: 0.257 ng
RT: 5.05 min Scan# 251
Delta R.T. -0.01 min
Lab File: BN007238.D
Acq: 17 Aug 2019 01:27

Tgt Ion	Ratio	Lower	Upper
112	100		
64	51.4	42.6	63.8
63	27.7	22.2	33.2

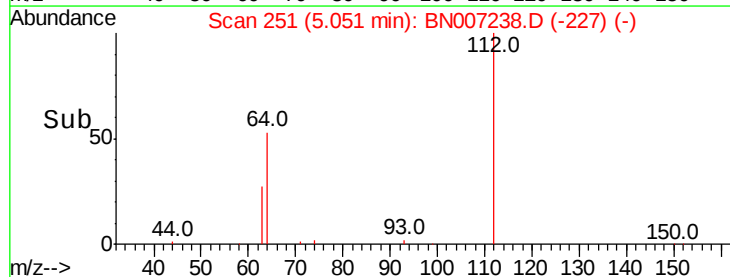
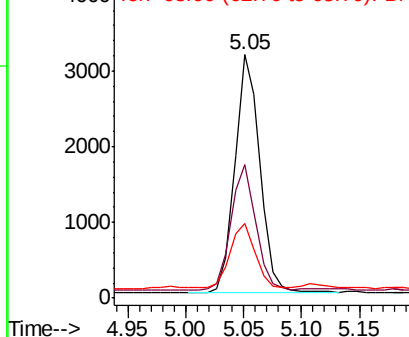


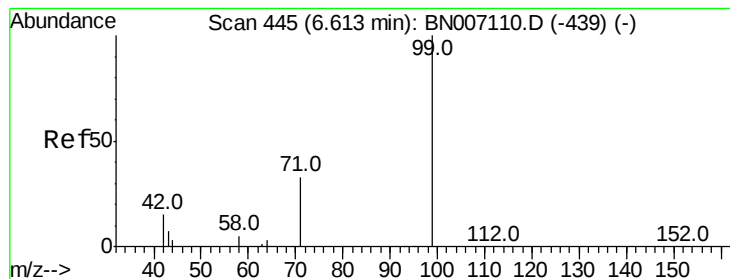
Abundance

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: 0.280 ng

RT: 6.61 min Scan# 445

Delta R.T. -0.00 min

Lab File: BN007238.D

Acq: 17 Aug 2019 01:27

Instrument :

BNA_N

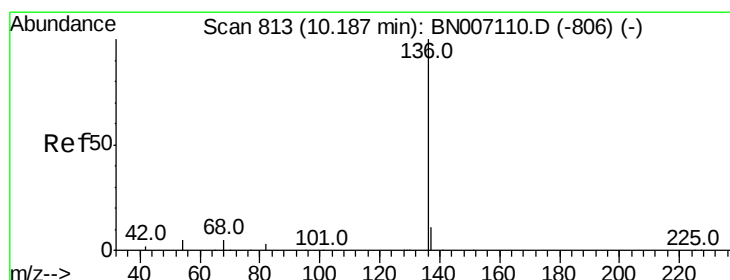
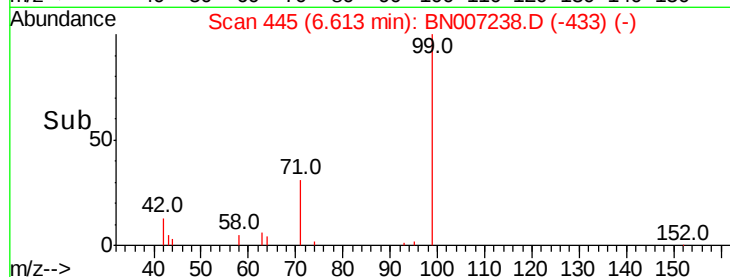
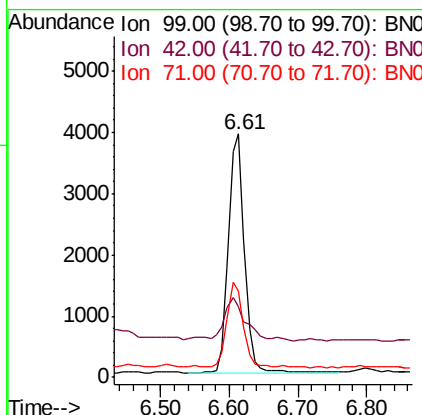
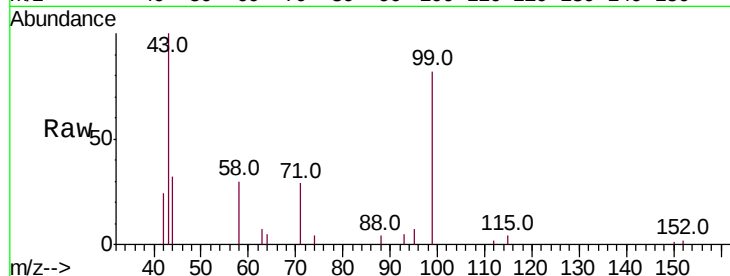
ClientSampleId :

EXT-015-SW083-080819

Tot Ion:	99	Resp:	6344
Ion	Ratio	Lower	Upper
99	100		
42	22.8	15.8	23.6
71	35.6	27.0	40.4

Manual Integrations
APPROVED

mohammad
8/20/2019 8:43:56 AM



#6

Naphthalene-d8

Concen: 0.400 ng

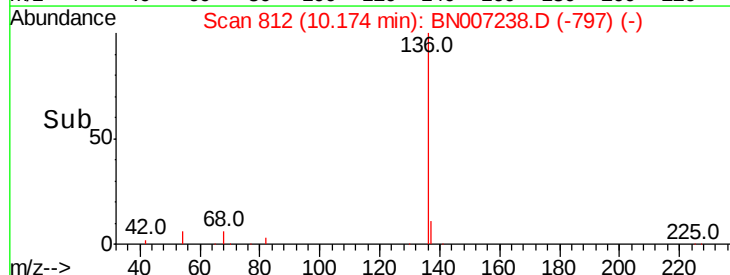
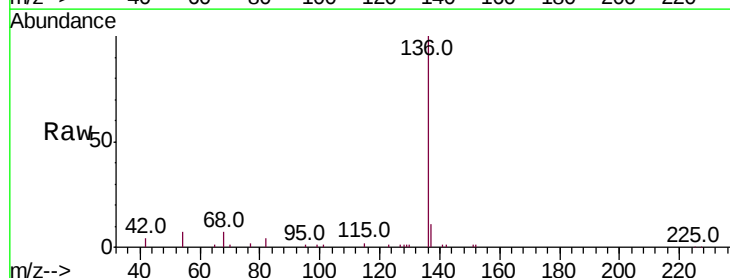
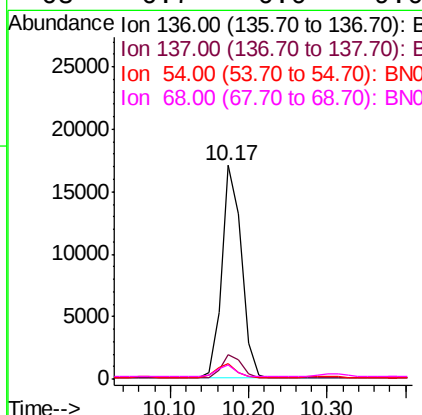
RT: 10.17 min Scan# 812

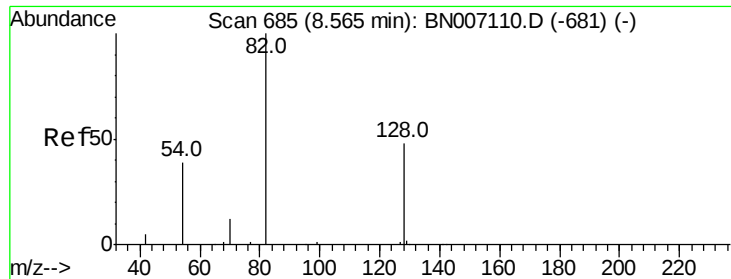
Delta R.T. -0.01 min

Lab File: BN007238.D

Acq: 17 Aug 2019 01:27

Tgt Ion:	136	Resp:	29841
Ion	Ratio	Lower	Upper
136	100		
137	11.4	9.4	14.0
54	7.2	6.6	9.8
68	6.7	6.0	9.0





#7

Nitrobenzene-d5

Concen: 0.220 ng

RT: 8.55 min Scan# 684

Delta R.T. -0.01 min

Lab File: BN007238.D

Acq: 17 Aug 2019 01:27

Instrument :

BNA_N

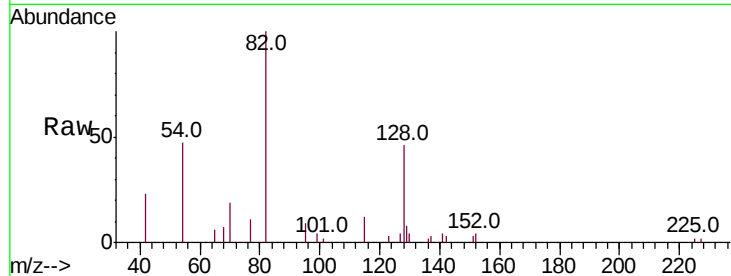
ClientSampleId :

EXT-015-SW083-080819

Tot Ion:	82	Resp:	5305
Ion Ratio	Lower	Upper	
82	100		
128	45.5	34.6	51.8
54	47.3	36.2	54.4

Manual Integrations
APPROVED

mohammad
8/20/2019 8:43:56 AM

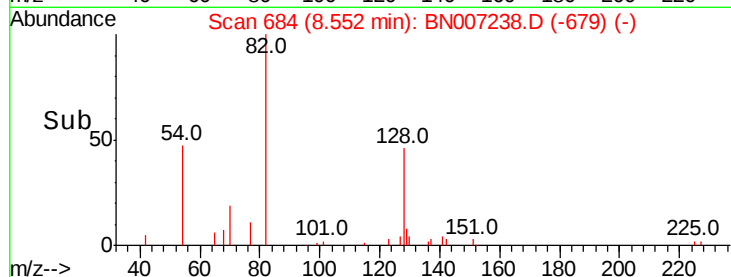


Abundance Ion 82.00 (81.70 to 82.70): BN007238.D (-681) (-)

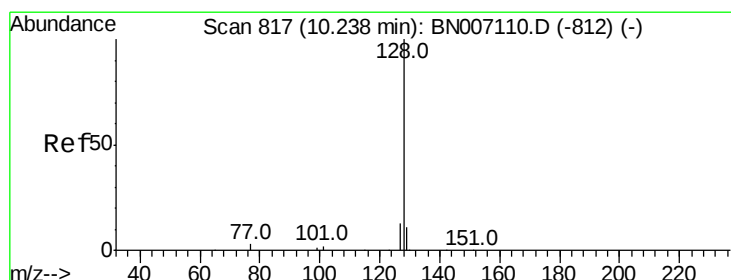
Ion 128.00 (127.70 to 128.70): BN007238.D (-681) (-)

Ion 54.00 (53.70 to 54.70): BN007238.D (-681) (-)

Time-->



Time-->



#8

Naphthalene

Concen: 0.227 ng

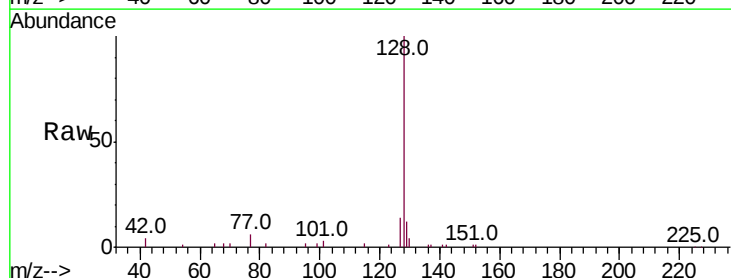
RT: 10.22 min Scan# 816

Delta R.T. -0.01 min

Lab File: BN007238.D

Acq: 17 Aug 2019 01:27

Tgt Ion:	128	Resp:	18955
Ion Ratio	Lower	Upper	
128	100		
129	12.5	9.4	14.2
127	13.8	11.0	16.6

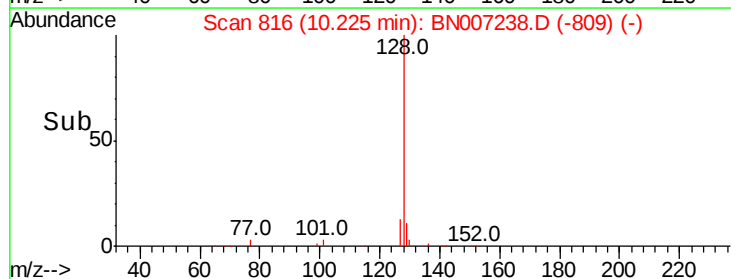


Abundance Ion 128.00 (127.70 to 128.70): BN007238.D (-812) (-)

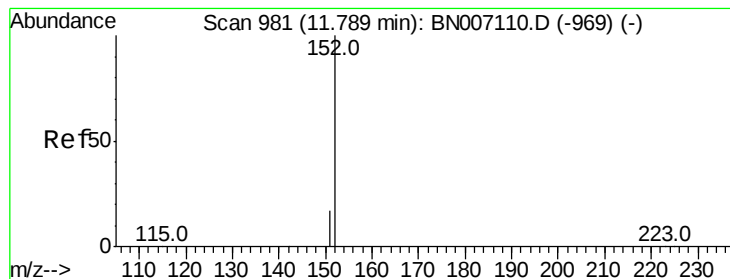
Ion 129.00 (128.70 to 129.70): BN007238.D (-812) (-)

Ion 127.00 (126.70 to 127.70): BN007238.D (-812) (-)

Time-->



Time-->



#10

2-Methylnaphthalene-d10

Concen: 0.186 ng

RT: 11.78 min Scan# 979

Delta R.T. -0.01 min

Lab File: BN007238.D

Acq: 17 Aug 2019 01:27

Instrument :

BNA_N

ClientSampleId :

EXT-015-SW083-080819

Tot Ion:152 Resp: 10322

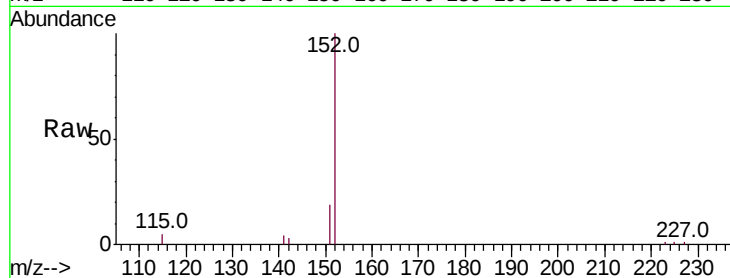
Ion Ratio Lower Upper

152 100

151 19.4 15.5 23.3

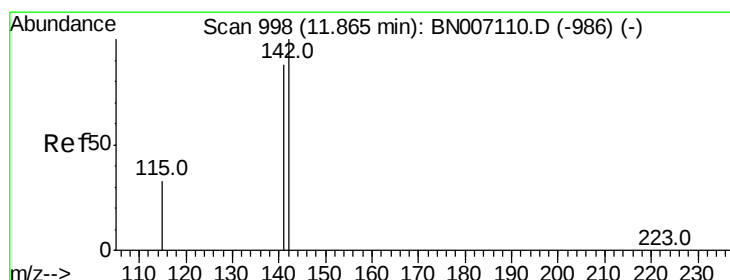
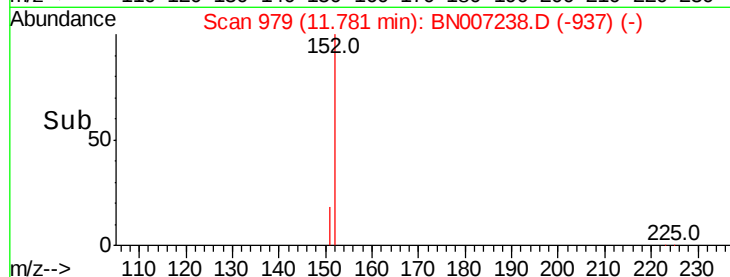
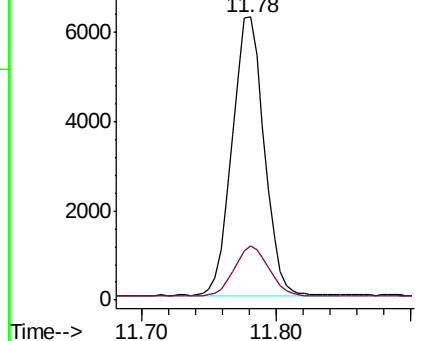
Manual Integrations
APPROVED

mohammad
8/20/2019 8:43:56 AM



Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E



#11

2-Methylnaphthalene

Concen: 0.271 ng

RT: 11.85 min Scan# 995

Delta R.T. -0.02 min

Lab File: BN007238.D

Acq: 17 Aug 2019 01:27

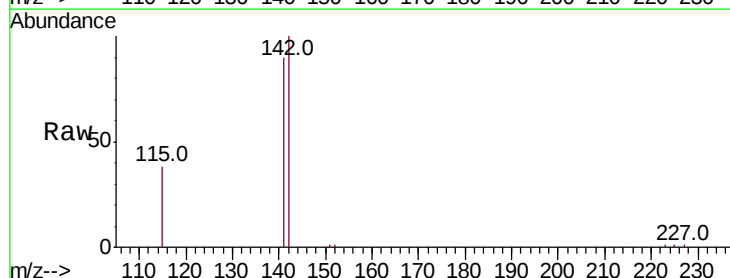
Tgt Ion:142 Resp: 16049

Ion Ratio Lower Upper

142 100

141 89.6 69.0 103.6

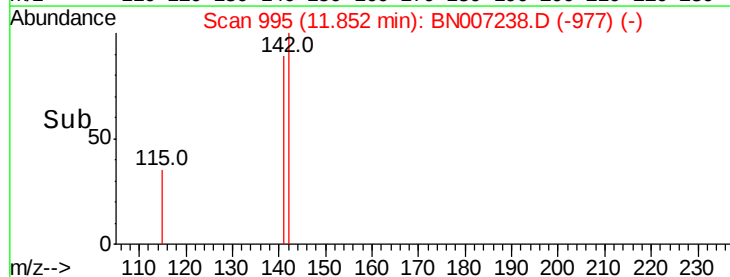
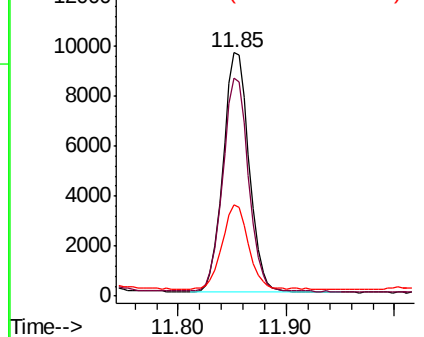
115 37.7 27.1 40.7

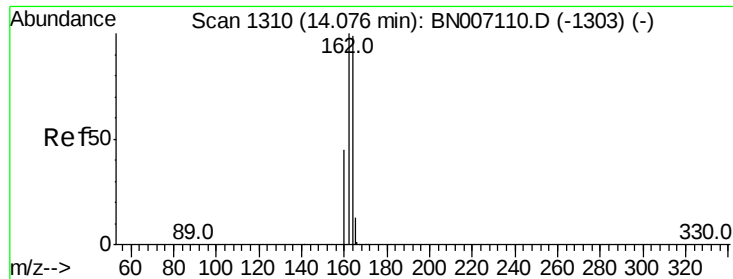


Abundance Ion 142.00 (141.70 to 142.70): E

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: BN007238.D

Acq: 17 Aug 2019 01:27

Instrument :

BNA_N

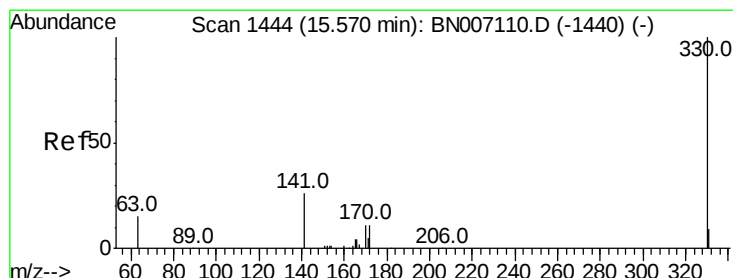
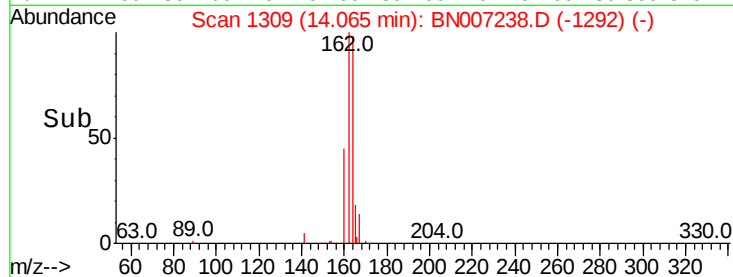
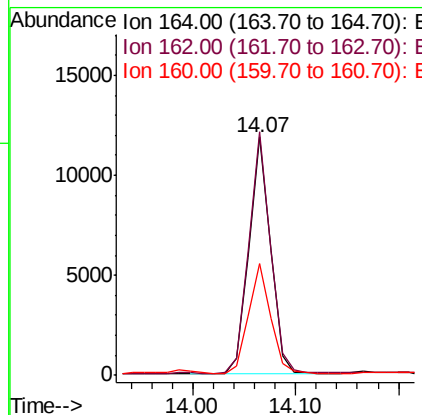
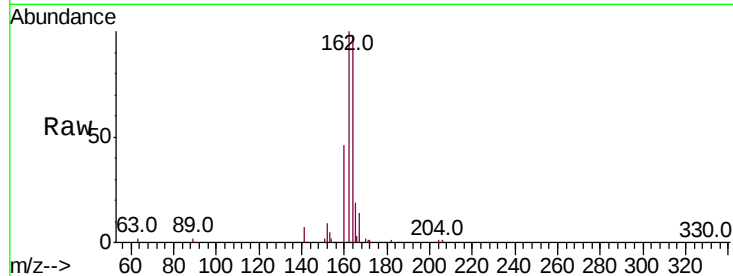
ClientSampleId :

EXT-015-SW083-080819

Tot Ion	Ratio	Lower	Upper
164	100		
162	102.2	82.2	123.4
160	47.1	38.3	57.5

Manual Integrations
APPROVED

mohammad
8/20/2019 8:43:56 AM



#13

2,4,6-Tribromophenol

Concen: 0.195 ng

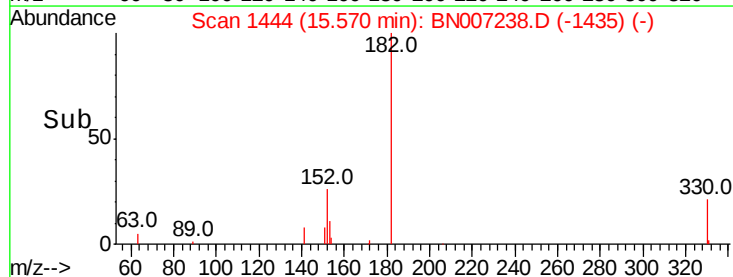
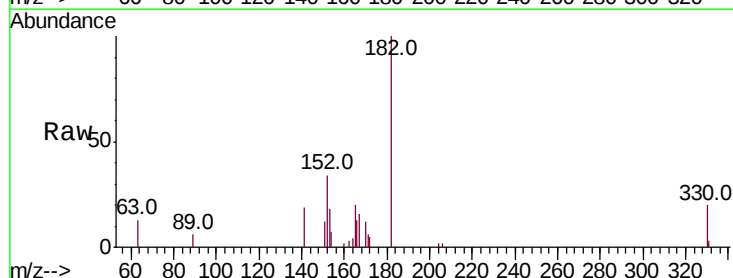
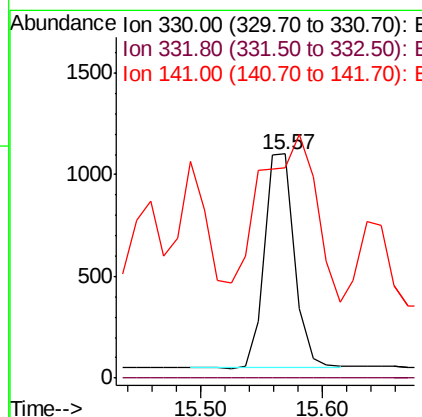
RT: 15.57 min Scan# 1444

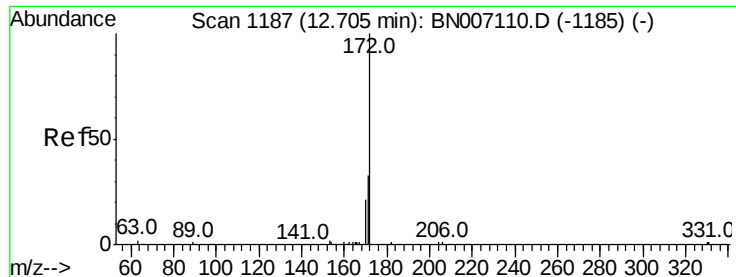
Delta R.T. -0.00 min

Lab File: BN007238.D

Acq: 17 Aug 2019 01:27

Tgt Ion	Ratio	Lower	Upper
330	100		
332	0.0	0.0	0.0
141	142.7	33.6	50.4#





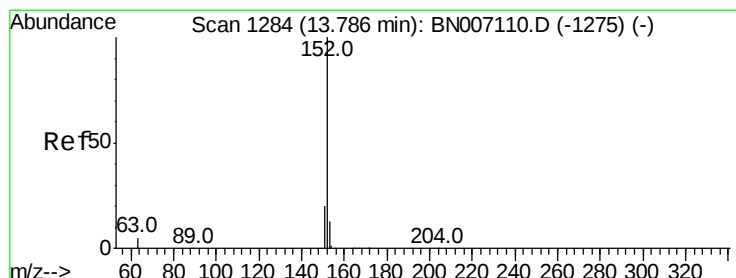
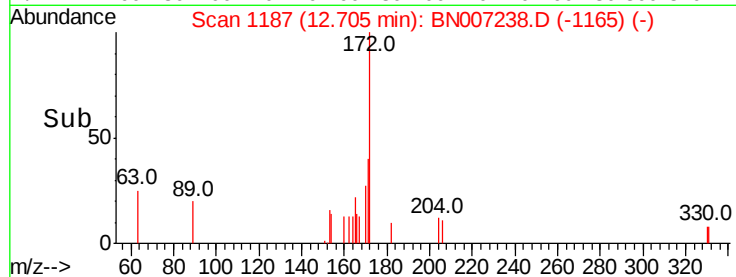
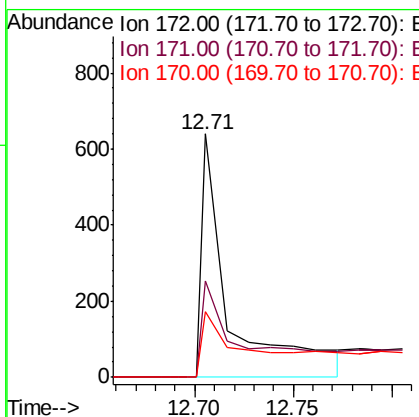
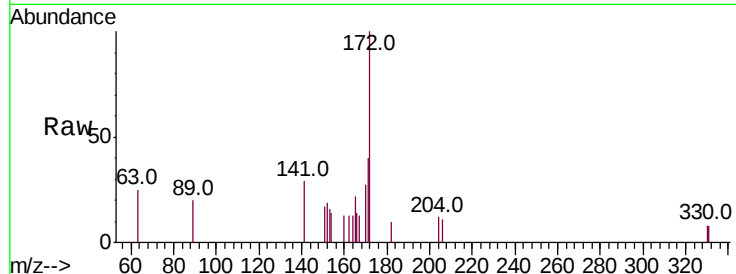
#14
2-Fluorobiphenyl
Concen: 0.027 ng
RT: 12.71 min Scan# 1187
Delta R.T. -0.00 min
Lab File: BN007238.D
Acq: 17 Aug 2019 01:27

Instrument :
BNA_N
ClientSampleId :
EXT-015-SW083-080819

Tot Ion	Ratio	Lower	Upper
172	100		
171	39.5	26.3	39.5#
170	26.9	17.0	25.4#

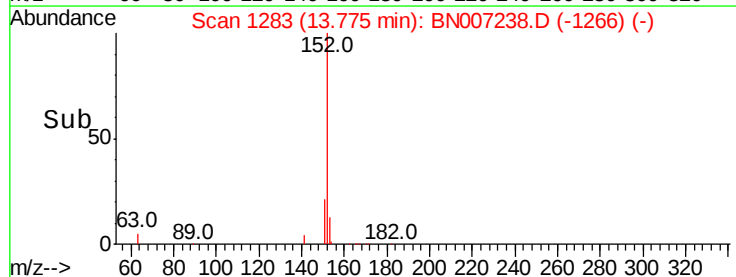
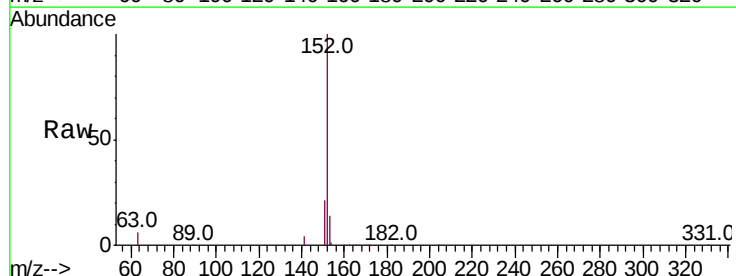
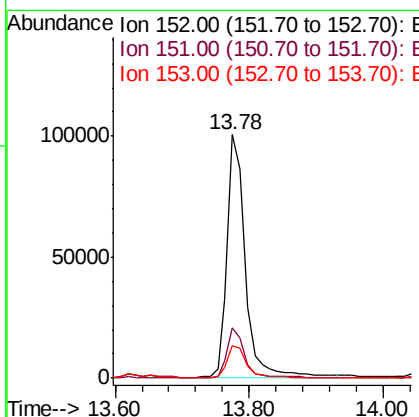
Manual Integrations
APPROVED

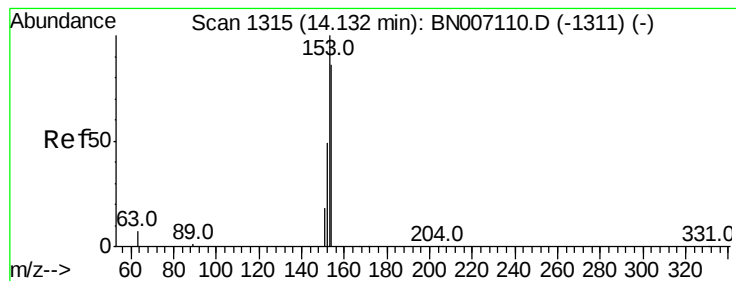
mohammad
8/20/2019 8:43:56 AM



#15
Acenaphthylene
Concen: 2.092 ng
RT: 13.78 min Scan# 1283
Delta R.T. -0.01 min
Lab File: BN007238.D
Acq: 17 Aug 2019 01:27

Tgt Ion	Ratio	Lower	Upper
152	100		
151	20.0	15.8	23.6
153	13.7	10.4	15.6





#16

Acenaphthene

Concen: 0.236 ng

RT: 14.13 min Scan# 1315

Delta R.T. -0.01 min

Lab File: BN007238.D

Acq: 17 Aug 2019 01:27

Instrument :

BNA_N

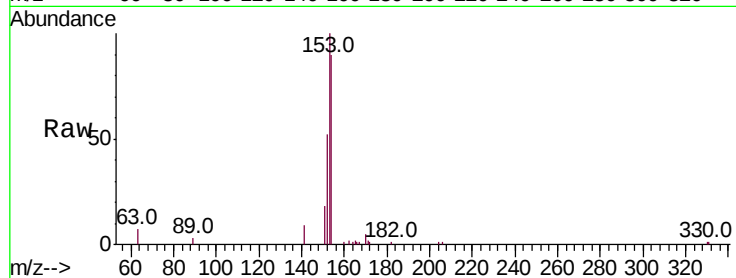
ClientSampleId :

EXT-015-SW083-080819

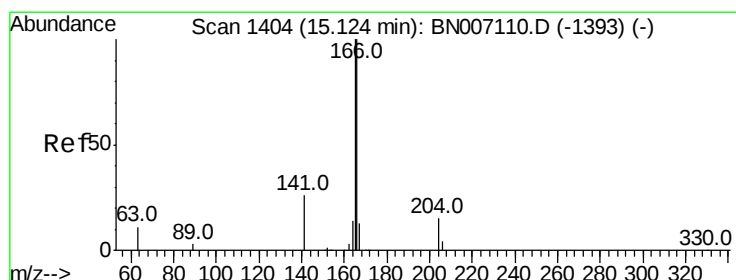
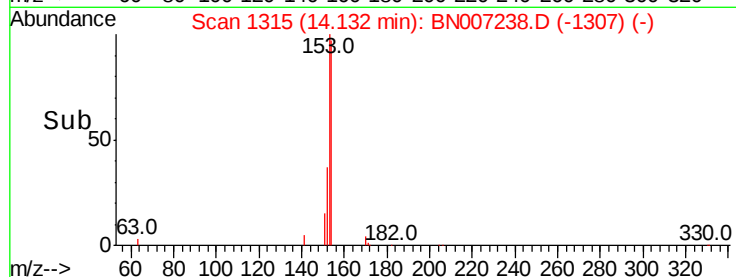
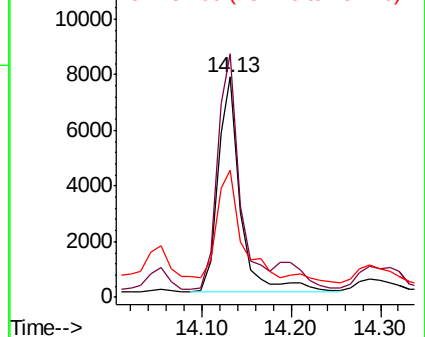
Tot Ion:	154	Resp:	13567
Ion Ratio	Lower	Upper	
154	100		
153	109.0	89.5	134.3
152	64.3	44.8	67.2

Manual Integrations
APPROVED

mohammad
8/20/2019 8:43:56 AM



Abundance Ion 154.00 (153.70 to 154.70): E
Ion 153.00 (152.70 to 153.70): E
Ion 152.00 (151.70 to 152.70): E



#17

Fluorene

Concen: 0.484 ng

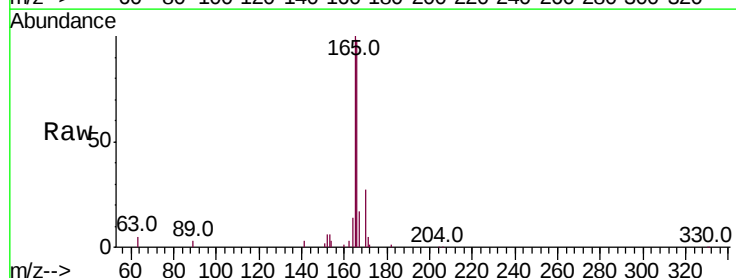
RT: 15.12 min Scan# 1404

Delta R.T. -0.01 min

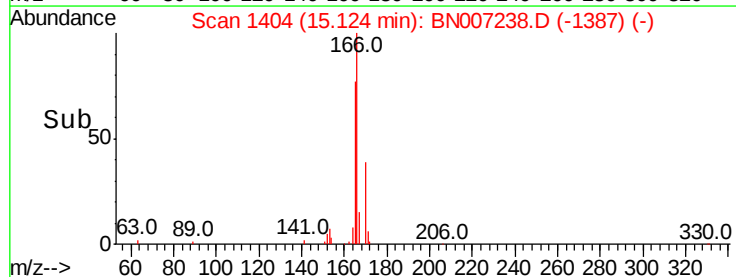
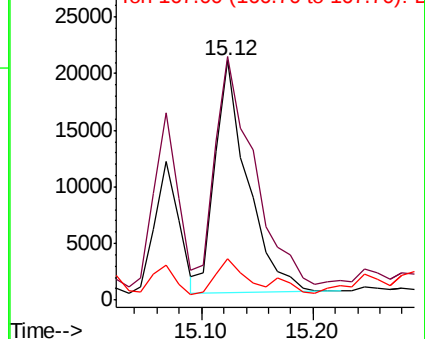
Lab File: BN007238.D

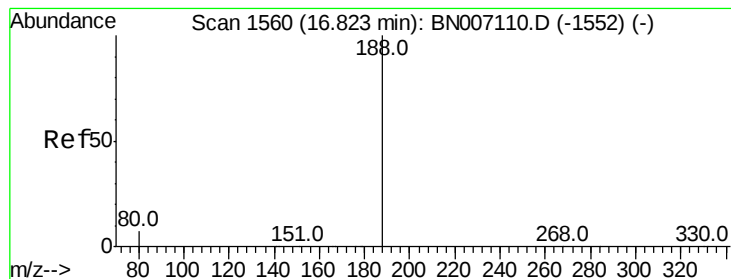
Acq: 17 Aug 2019 01:27

Tgt Ion:	166	Resp:	41645
Ion Ratio	Lower	Upper	
166	100		
165	116.1	77.9	116.9
167	14.3	10.9	16.3



Abundance Ion 166.00 (165.70 to 166.70): E
Ion 165.00 (164.70 to 165.70): E
Ion 167.00 (166.70 to 167.70): E





#18

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.81 min Scan# 1559

Delta R.T. -0.01 min

Lab File: BN007238.D

Acq: 17 Aug 2019 01:27

Instrument :

BNA_N

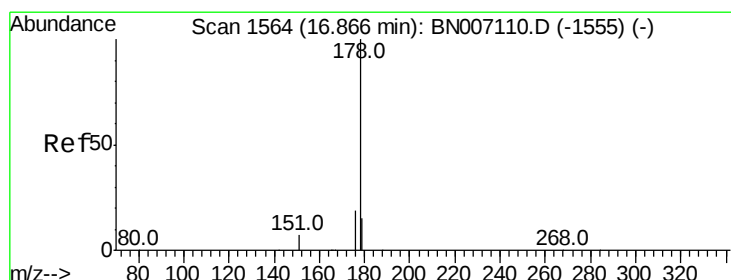
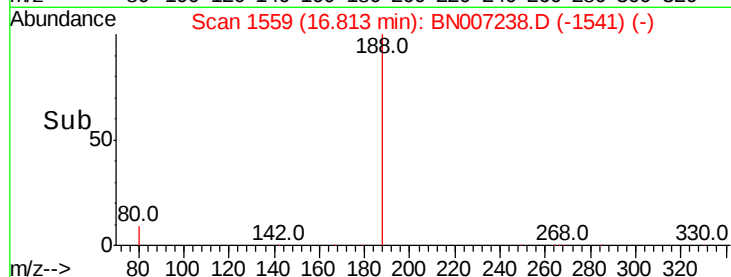
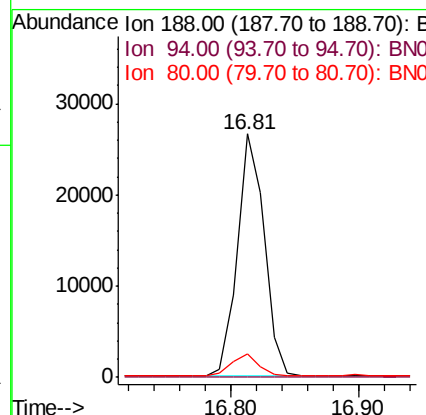
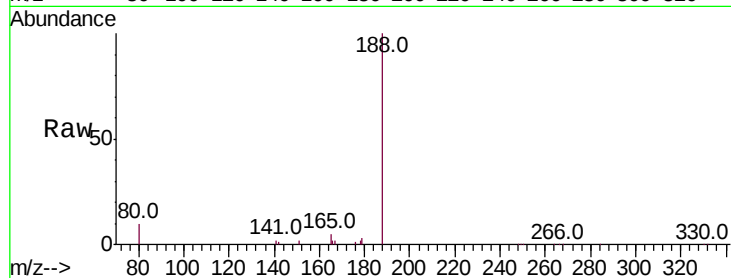
ClientSampleId :

EXT-015-SW083-080819

Tot Ion:	188	Resp:	38891
Ion Ratio	Lower	Upper	
188	100		
94	0.0	0.0	0.0
80	9.5	7.8	11.6

Manual Integrations
APPROVED

mohammad
8/20/2019 8:43:56 AM



#22

Phenanthrene

Concen: 5.740 ng

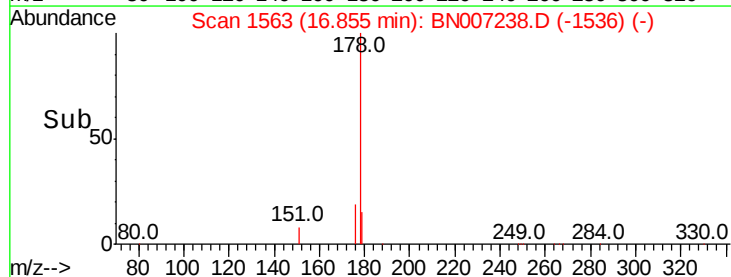
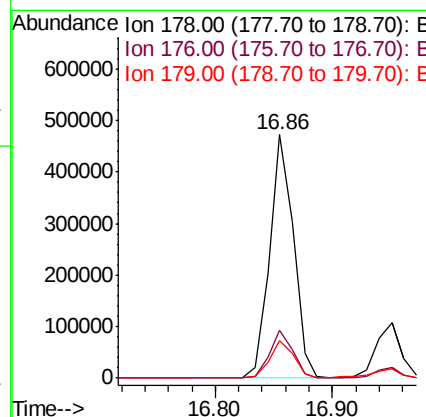
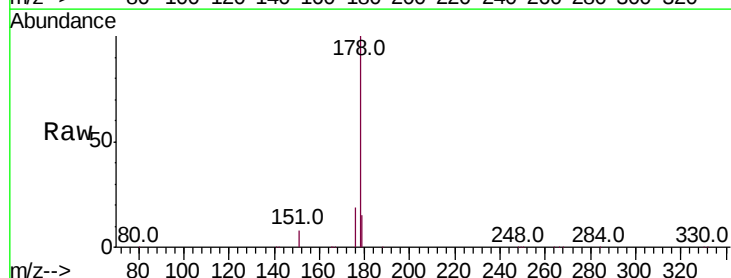
RT: 16.86 min Scan# 1563

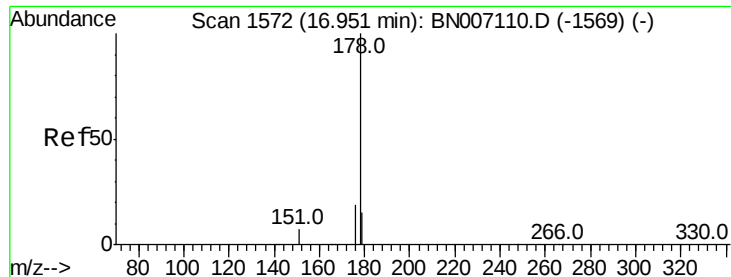
Delta R.T. -0.01 min

Lab File: BN007238.D

Acq: 17 Aug 2019 01:27

Tgt Ion:	178	Resp:	668995
Ion Ratio	Lower	Upper	
178	100		
176	19.1	15.2	22.8
179	15.6	12.3	18.5





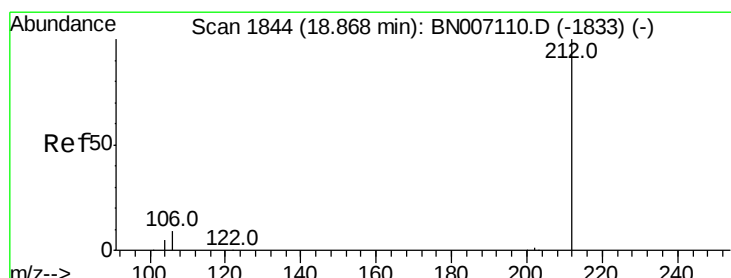
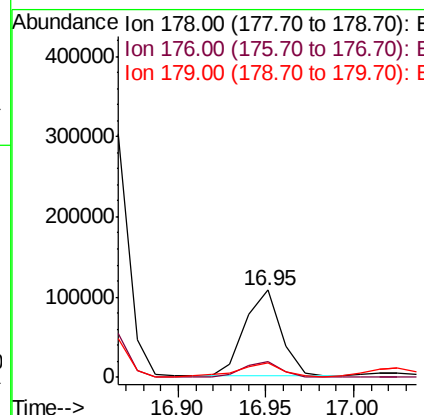
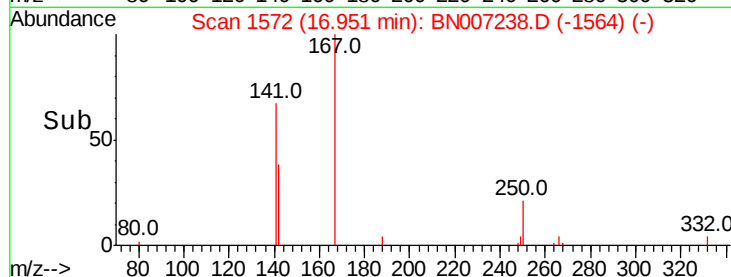
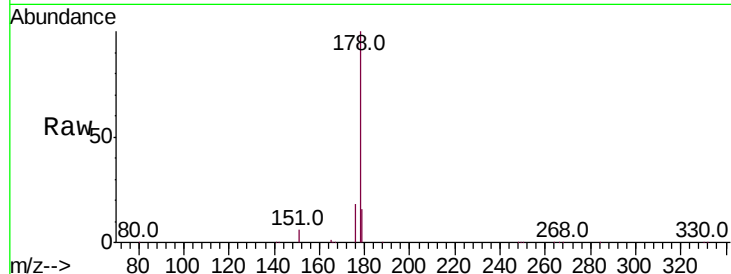
#23
 Anthracene
 Concen: 1.461 ng
 RT: 16.95 min Scan# 1572
 Delta R.T. -0.01 min
 Lab File: BN007238.D
 Acq: 17 Aug 2019 01:27

Instrument :
 BNA_N
 ClientSampleId :
 EXT-015-SW083-080819

Tot Ion	Ratio	Lower	Upper
178	100		
176	18.4	14.6	21.8
179	16.1	12.5	18.7

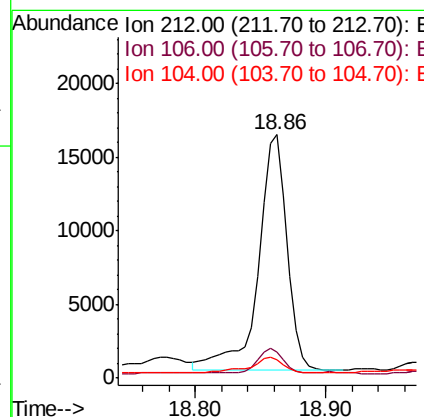
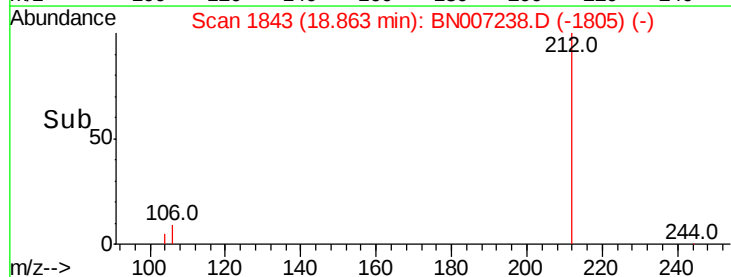
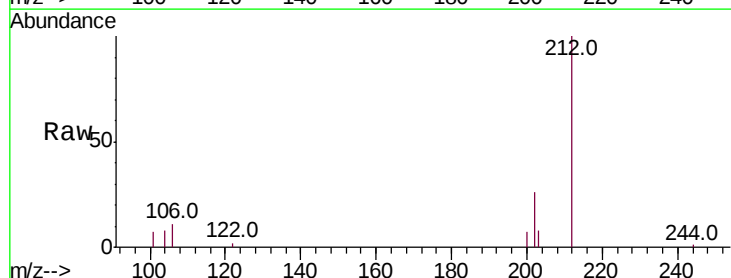
Manual Integrations
 APPROVED

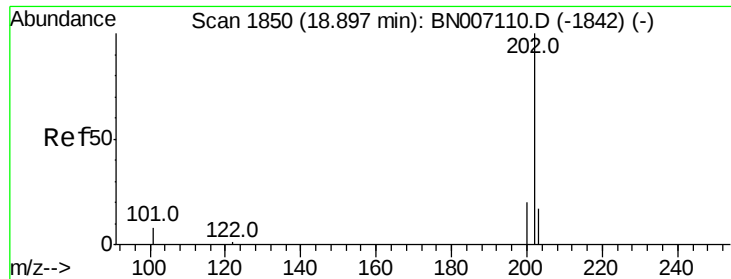
mohammad
 8/20/2019 8:43:56 AM



#24
 Fluoranthene-d10
 Concen: 0.178 ng
 RT: 18.86 min Scan# 1843
 Delta R.T. -0.01 min
 Lab File: BN007238.D
 Acq: 17 Aug 2019 01:27

Tgt Ion	Ratio	Lower	Upper
212	100		
106	9.7	8.2	12.2
104	8.0	4.5	6.7#





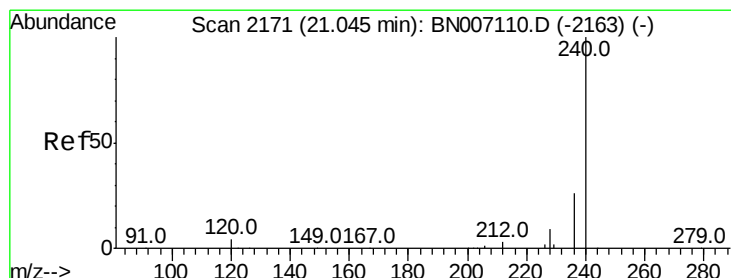
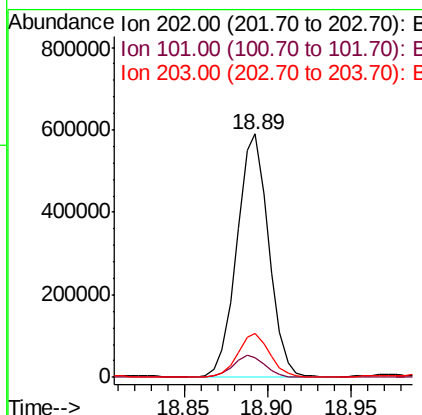
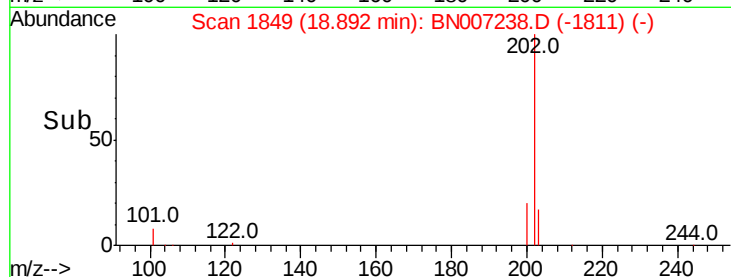
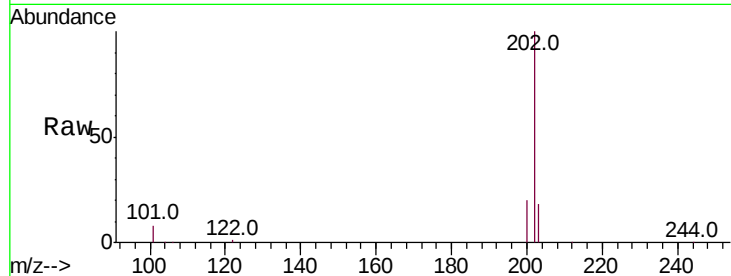
#25
Fluoranthene
 Concen: 5.230 ng
 RT: 18.89 min Scan# 1849
 Delta R.T. -0.01 min
 Lab File: BN007238.D
 Acq: 17 Aug 2019 01:27

Instrument :
 BNA_N
 ClientSampleId :
 EXT-015-SW083-080819

Tot Ion:	202	Resp:	779749
Ion Ratio	Lower	Upper	
202	100		
101	9.0	7.0	10.4
203	17.9	13.8	20.8

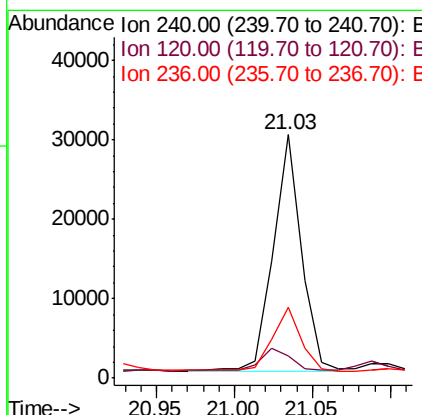
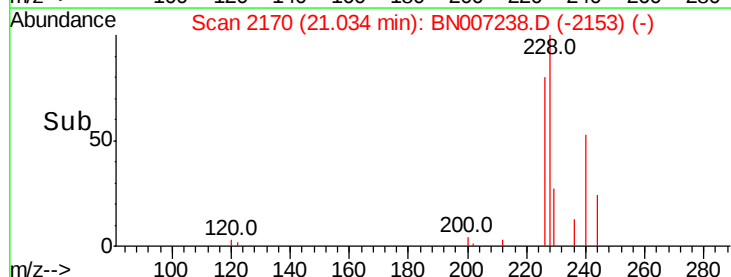
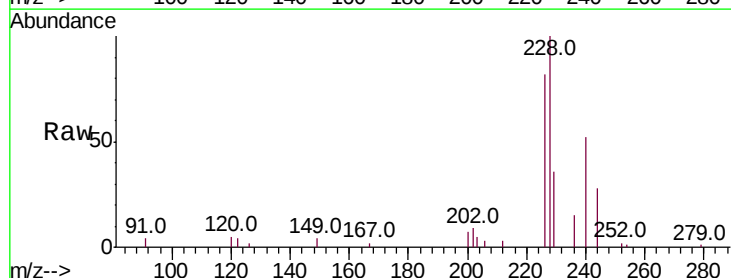
Manual Integrations
 APPROVED

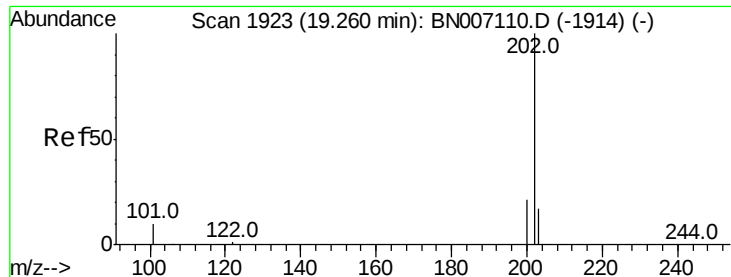
mohammad
 8/20/2019 8:43:56 AM



#26
Chrysene-d12
 Concen: 0.400 ng
 RT: 21.03 min Scan# 2170
 Delta R.T. -0.02 min
 Lab File: BN007238.D
 Acq: 17 Aug 2019 01:27

Tgt Ion:	240	Resp:	37494
Ion Ratio	Lower	Upper	
240	100		
120	9.2	4.0	6.0#
236	29.2	21.3	31.9





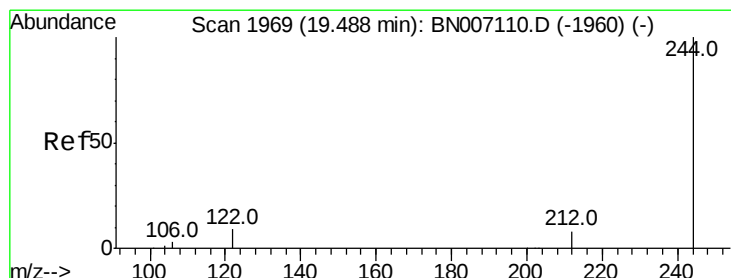
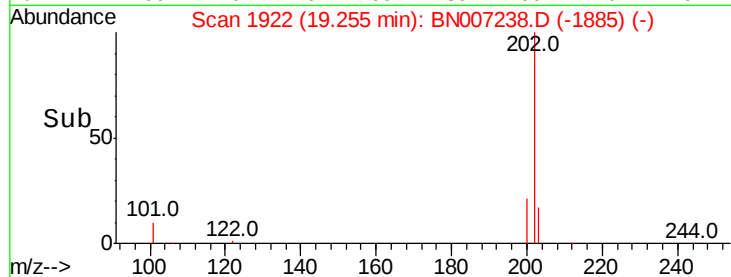
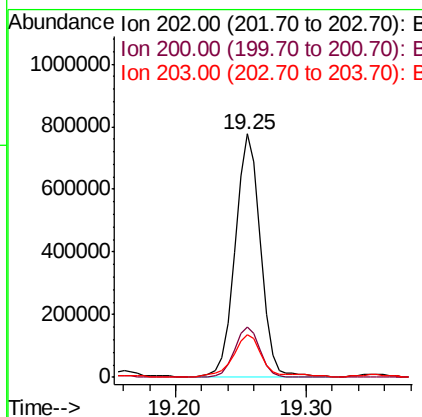
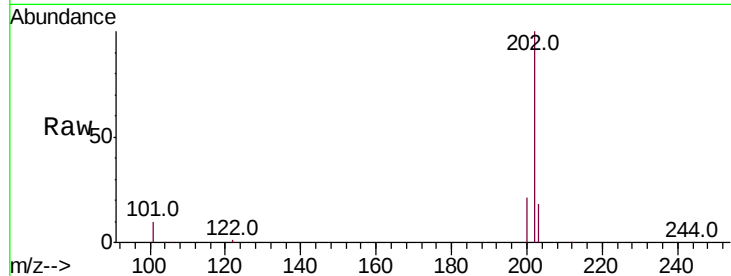
#27
Pvrene
Concen: 7.990 ng
RT: 19.25 min Scan# 1922
Delta R.T. -0.02 min
Lab File: BN007238.D
Acq: 17 Aug 2019 01:27

Instrument :
BNA_N
ClientSampleId :
EXT-015-SW083-080819

Tot Ion	Ratio	Lower	Upper
202	100		
200	20.8	16.6	24.8
203	19.1	14.0	21.0

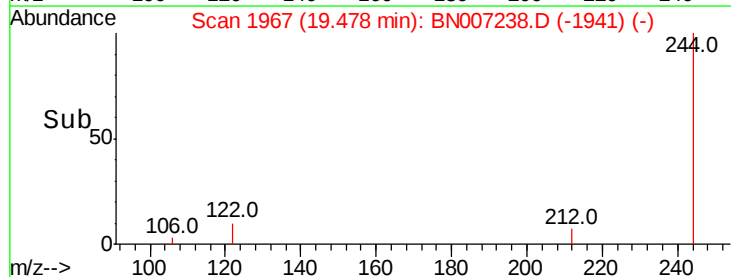
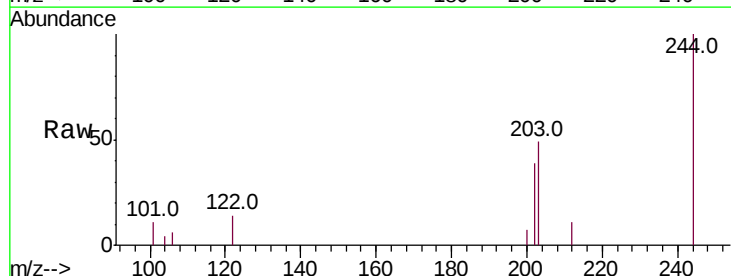
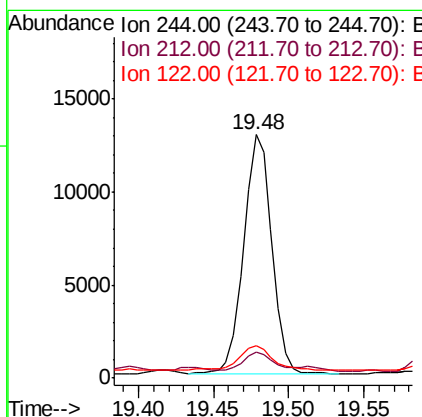
Manual Integrations
APPROVED

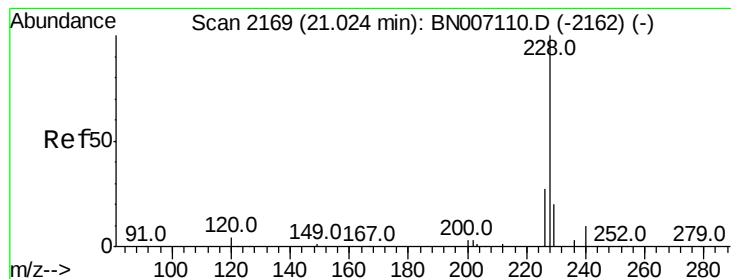
mohammad
8/20/2019 8:43:56 AM



#28
Terphenyl-d14
Concen: 0.163 ng
RT: 19.48 min Scan# 1967
Delta R.T. -0.02 min
Lab File: BN007238.D
Acq: 17 Aug 2019 01:27

Tgt Ion	Ratio	Lower	Upper
244	100		
212	10.6	6.2	9.2#
122	13.6	7.4	11.2#





#29

Benzo(a)anthracene

Concen: 2.962 ng/mL

RT: 21.01 min Scan# 2168

Delta R.T. -0.02 min

Lab File: BN007238.D

Acq: 17 Aug 2019 01:27

Instrument :

BNA_N

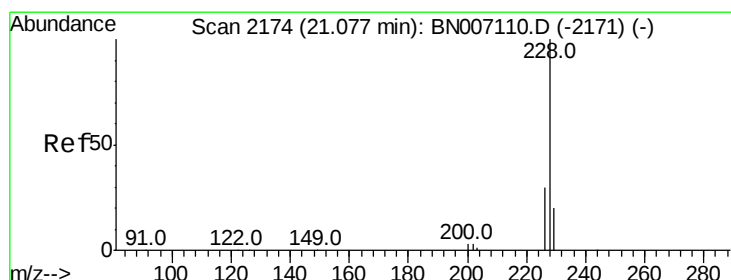
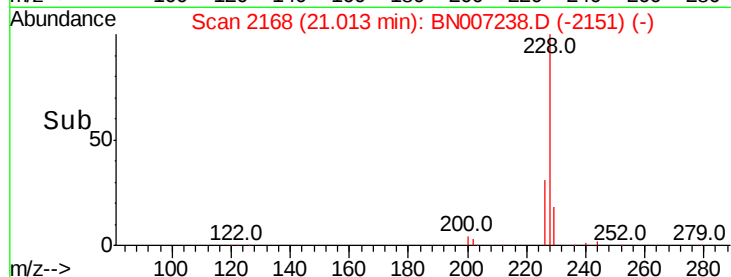
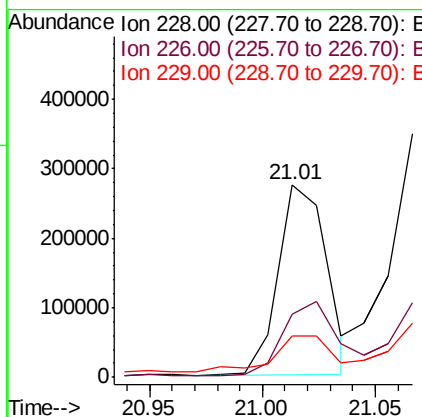
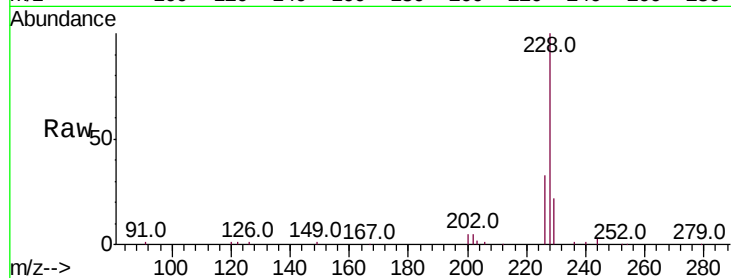
ClientSampleId :

EXT-015-SW083-080819

Tot Ion:	228	Resp:	406124
Ion Ratio	Lower	Upper	
228	100		
226	33.0	21.8	32.6#
229	21.8	15.6	23.4

Manual Integrations
APPROVED

mohammad
8/20/2019 8:43:56 AM



#30

Chrysene

Concen: 4.041 ng/mL

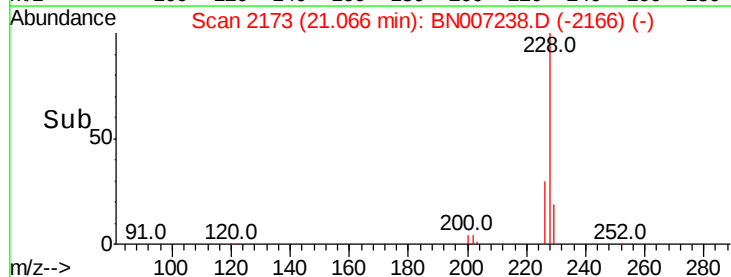
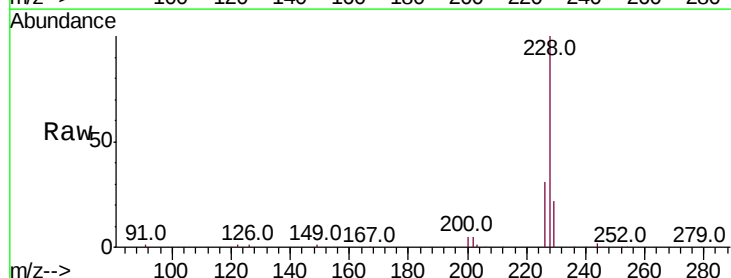
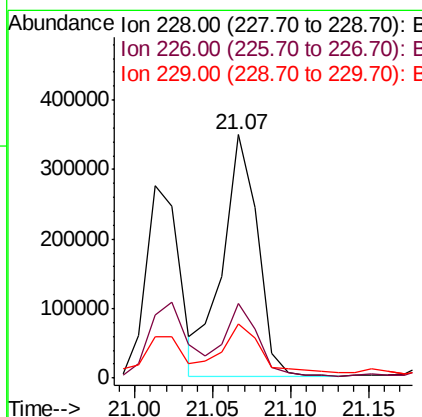
RT: 21.07 min Scan# 2173

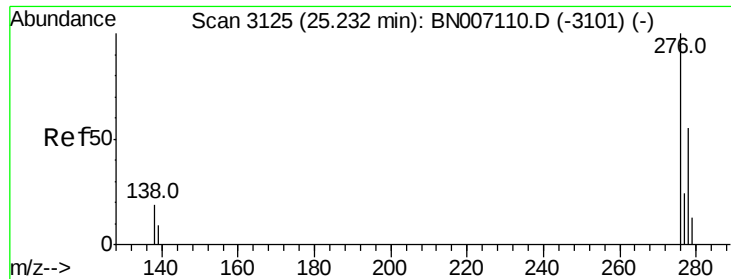
Delta R.T. -0.02 min

Lab File: BN007238.D

Acq: 17 Aug 2019 01:27

Tgt Ion:	228	Resp:	538348
Ion Ratio	Lower	Upper	
228	100		
226	30.9	23.8	35.6
229	22.1	15.7	23.5





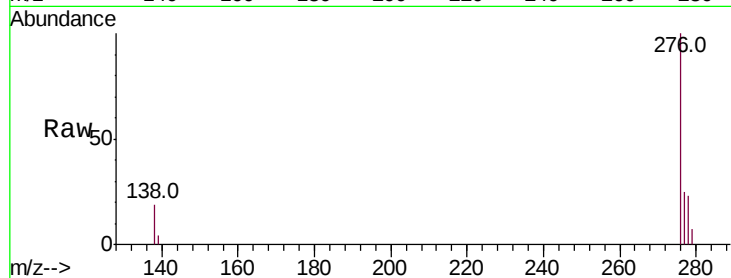
#31
Indeno(1,2,3-cd)pyrene
Concen: 1.713 ng
RT: 25.22 min Scan# 3121
Delta R.T. -0.03 min
Lab File: BN007238.D
Acq: 17 Aug 2019 01:27

Instrument :
BNA_N
ClientSampleId :
EXT-015-SW083-080819

Tot Ion	Ratio	Lower	Upper
276	100		
138	18.5	16.0	24.0
277	25.1	19.9	29.9

Manual Integrations
APPROVED

mohammad
8/20/2019 8:43:56 AM

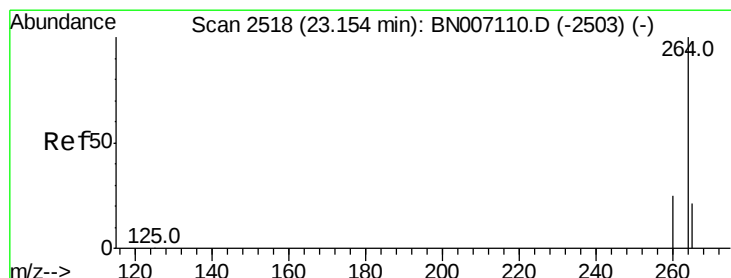
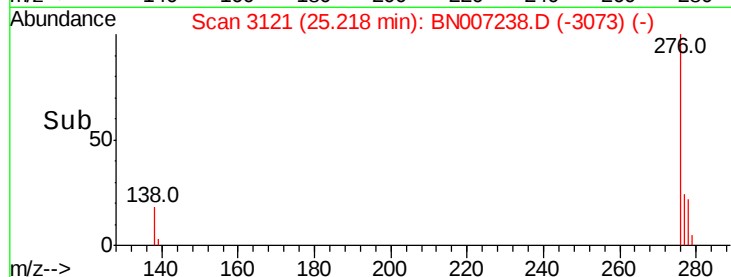
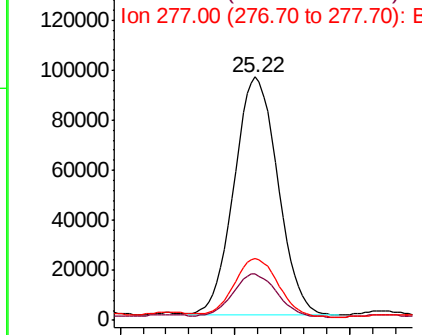


Abundance

Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E



#32
Perylene-d12
Concen: 0.400 ng
RT: 23.15 min Scan# 2516
Delta R.T. -0.02 min
Lab File: BN007238.D
Acq: 17 Aug 2019 01:27

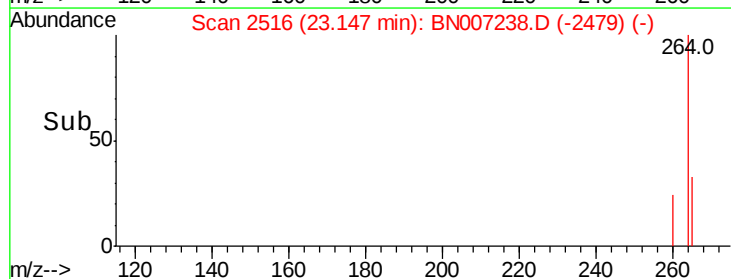
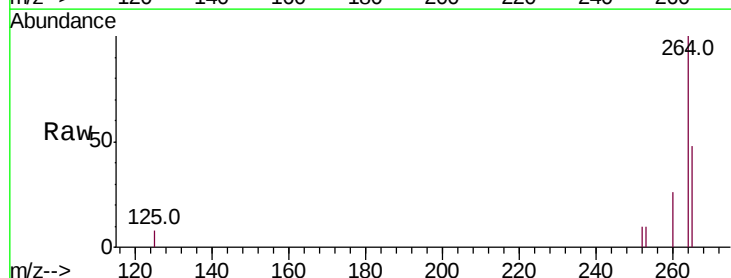
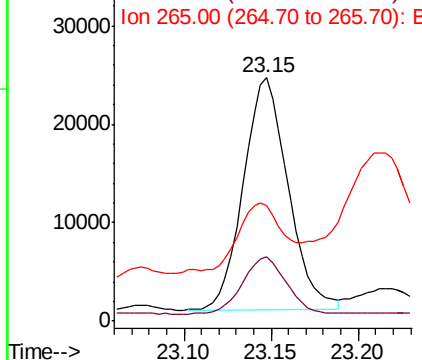
Tgt Ion	Ratio	Lower	Upper
264	100		
260	26.2	19.8	29.8
265	47.5	26.2	39.4

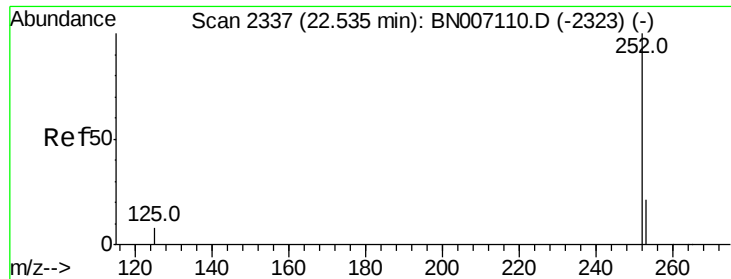
Abundance

Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E





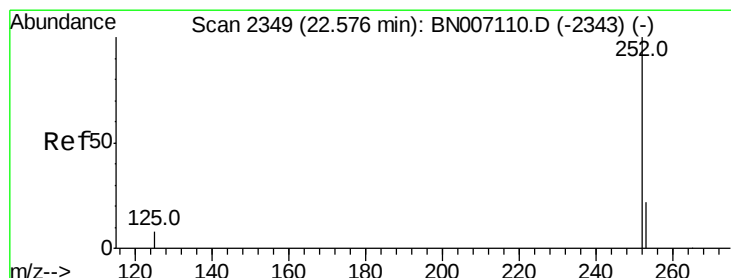
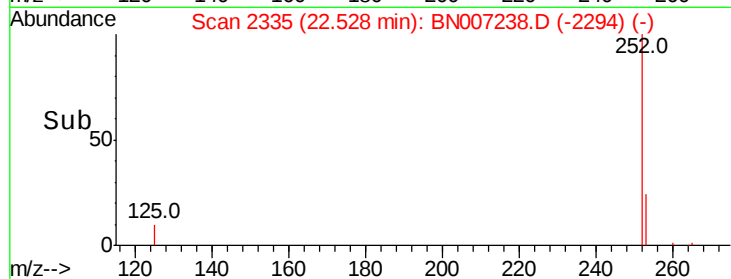
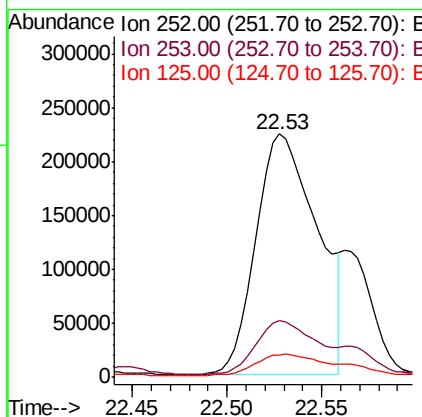
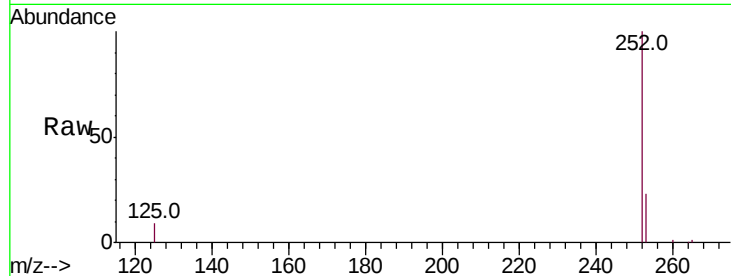
#33
Benzo(b)fluoranthene
Concen: 3.476 ng
RT: 22.53 min Scan# 2335
Delta R.T. -0.02 min
Lab File: BN007238.D
Acq: 17 Aug 2019 01:27

Instrument :
BNA_N
ClientSampleId :
EXT-015-SW083-080819

Tot Ion	Ratio	Lower	Upper
252	100		
253	23.1	18.2	27.2
125	9.4	7.4	11.0

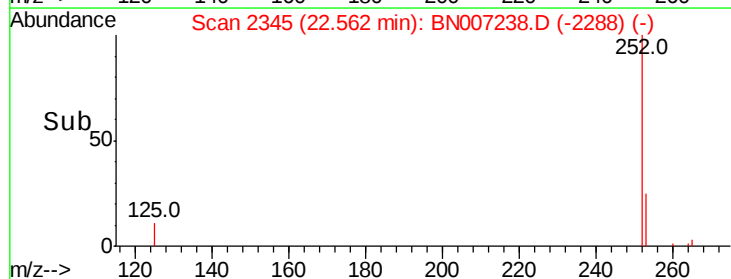
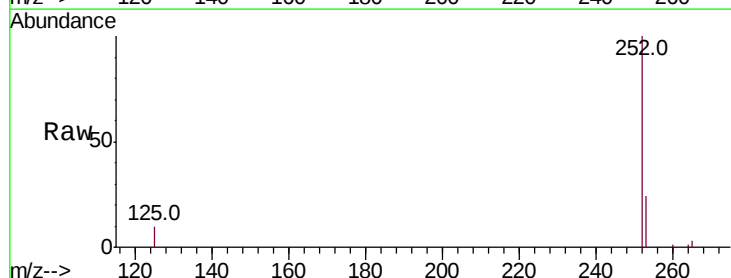
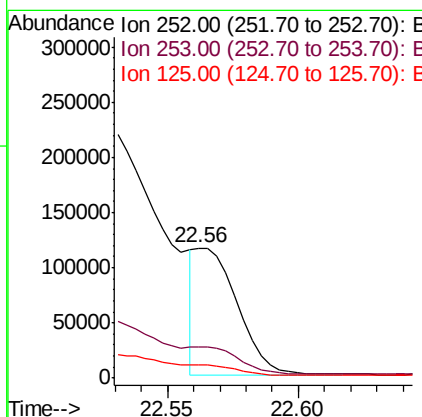
Manual Integrations
APPROVED

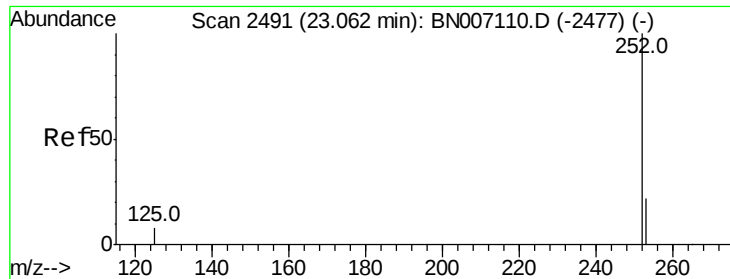
mohammad
8/20/2019 8:43:56 AM



#34
Benzo(k)fluoranthene
Concen: 0.900 ng m
RT: 22.56 min Scan# 2345
Delta R.T. -0.03 min
Lab File: BN007238.D
Acq: 17 Aug 2019 01:27

Tgt Ion	Ratio	Lower	Upper
252	100		
253	24.3	18.1	27.1
125	10.1	7.4	11.0





#35

Benzo(a)pyrene

Concen: 2.870 ng

RT: 23.05 min Scan# 2489

Delta R.T. -0.03 min

Lab File: BN007238.D

Acq: 17 Aug 2019 01:27

Instrument :

BNA_N

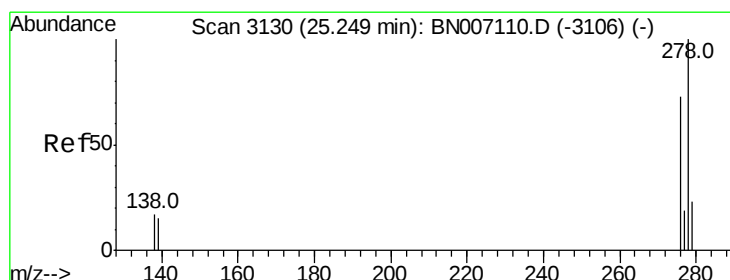
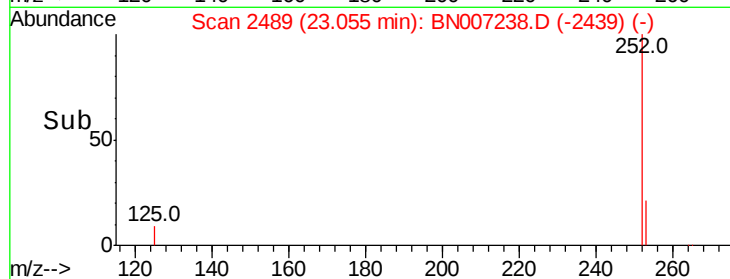
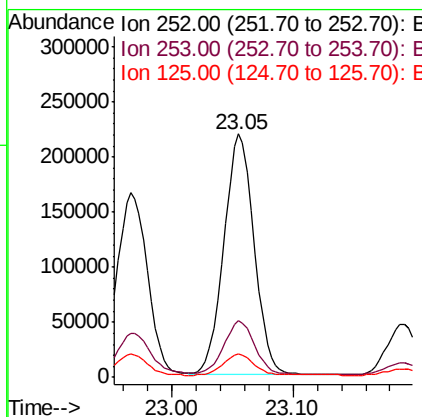
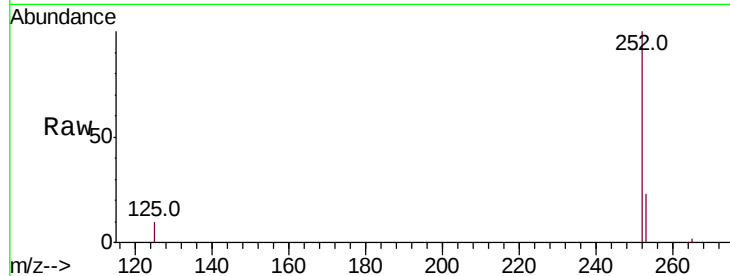
ClientSampleId :

EXT-015-SW083-080819

Tot Ion:	252	Resp:	377508
Ion Ratio	Lower	Upper	
252	100		
253	23.3	18.5	27.7
125	9.6	8.2	12.4

Manual Integrations
APPROVED

mohammad
8/20/2019 8:43:56 AM



#36

Dibenzo(a,h)anthracene

Concen: 0.525 ng

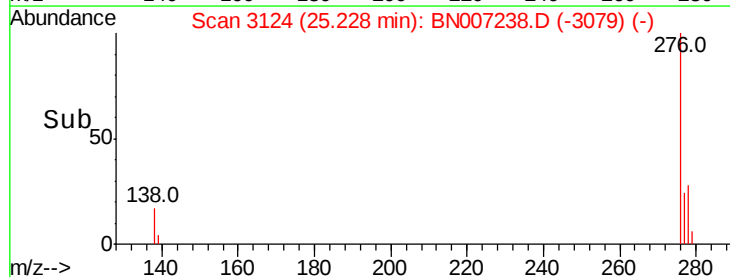
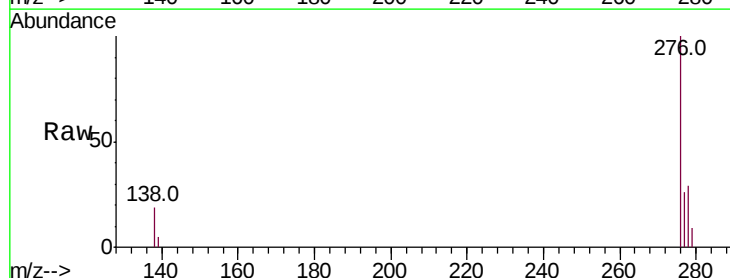
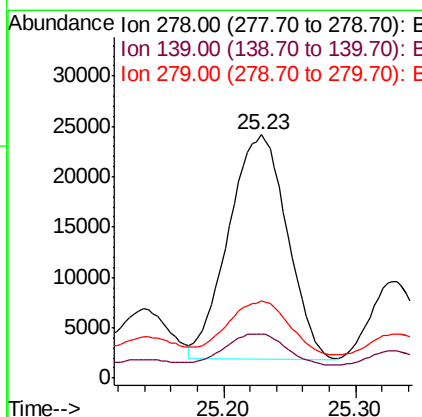
RT: 25.23 min Scan# 3124

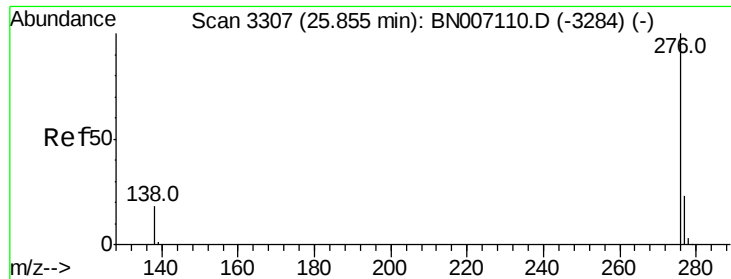
Delta R.T. -0.04 min

Lab File: BN007238.D

Acq: 17 Aug 2019 01:27

Tgt Ion:	278	Resp:	68939
Ion Ratio	Lower	Upper	
278	100		
139	18.2	11.3	16.9#
279	31.9	19.3	28.9#





#37
 Benzo(a,h,i)perylene
 Concen: 2.121 ng
 RT: 25.85 min Scan# 3305
 Delta R.T. -0.03 min
 Lab File: BN007238.D
 Acq: 17 Aug 2019 01:27

Instrument :
 BNA_N
 ClientSampleId :
 EXT-015-SW083-080819

Tot Ion:	276	Resp:	286339
Ion Ratio	Lower	Upper	
276	100		
277	24.7	19.8	29.8
138	19.2	14.6	22.0

Manual Integrations
 APPROVED

mohammad
 8/20/2019 8:43:56 AM

