

Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN092719\
 Data File : BN007886.D
 Acq On : 27 Sep 2019 14:06
 Operator : JU
 Sample : K4994-05DL 50X
 Misc :
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 EXT-SW093-091819-1DL

Manual Integrations
 APPROVED

mohammad
 9/30/2019 8:15:56 AM

Quant Time: Sep 30 12:07:06 2019

Quant Method : Z:\SVOASRV\HPCHEM1\BNA N\METHODS\8270-SIM-BN091819.M

Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

QLast Update : Wed Sep 18 18:24:40 2019

Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.69	152	7887	0.40	ng	0.00
7) Naphthalene-d8	10.46	136	31914	0.40	ng	-0.01
13) Acenaphthene-d10	14.31	164	20033	0.40	ng	-0.01
19) Phenanthrene-d10	17.06	188	43128	0.40	ng	-0.01
27) Chrysene-d12	21.26	240	46578	0.40	ng	-0.01
34) Perylene-d12	23.47	264	51768	0.40	ng	-0.02

System Monitoring Compounds

4) 2-Fluorophenol	5.31	112	178	0.01	ng	0.00
5) Phenol-d6	6.87	99	252	0.00	ng	0.00
8) Nitrobenzene-d5	8.83	82	246	0.01	ng	0.00
11) 2-Methylnaphthalene-d10	12.05	152	213	0.00	ng	-0.01
14) 2,4,6-Tribromophenol	15.81	330	59	0.01	ng	-0.01
15) 2-Fluorobiphenyl	12.93	172	403	0.00	ng	-0.01
25) Fluoranthene-d10	0.00	212	0d	0.00	ng	
29) Terphenyl-d14	19.69	244	1315	0.01	ng	-0.02

Target Compounds

						Qvalue
9) Naphthalene	10.51	128	12046	0.134	ng	97
12) 2-Methylnaphthalene	12.13	142	9947	0.164	ng	98
16) Acenaphthylene	14.04	152	130211	1.226	ng	98
17) Acenaphthene	14.38	154	19091	0.279	ng	99
18) Fluorene	15.36	166	45670	0.520	ng	91
23) Phenanthrene	17.10	178	958310	7.133	ng	100
24) Anthracene	17.19	178	148527	1.224	ng	99
26) Fluoranthene	19.12	202	1235692	7.397	ng	99
28) Pyrene	19.49	202	1658345	10.439	ng	97
30) Benzo(a)anthracene	21.24	228	729326	4.252	ng	97
31) Chrysene	21.29	228	829773	4.964	ng	98
32) Bis(2-ethylhexyl)phthalate	21.19	149	8769	0.099	ng	# 79
33) Indeno(1,2,3-cd)pyrene	25.68	276	357971	1.710	ng	97
35) Benzo(b)fluoranthene	22.82	252	749628	4.171	ng	99
36) Benzo(k)fluoranthene	22.86	252	222553m	1.252	ng	
37) Benzo(a)pyrene	23.38	252	592627	3.509	ng	98
38) Dibenzo(a,h)anthracene	25.69	278	104179	0.603	ng	93
39) Benzo(a,h,i)perylene	26.36	276	397362	2.324	ng	99

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

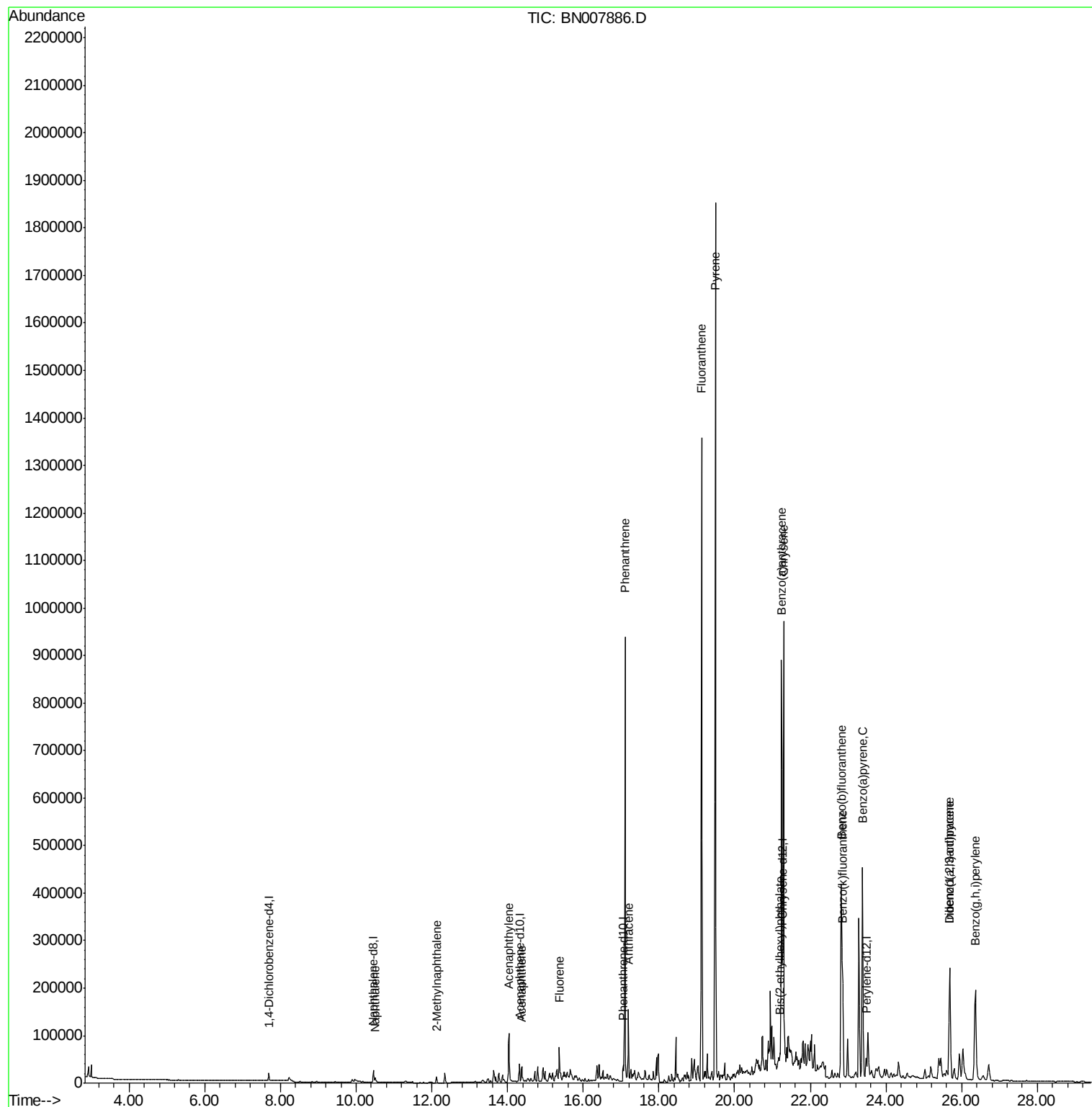
Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN092719\
Data File : BN007886.D
Acq On : 27 Sep 2019 14:06
Operator : JU
Sample : K4994-05DL 50X
Misc :
ALS Vial : 6 Sample Multiplier: 1

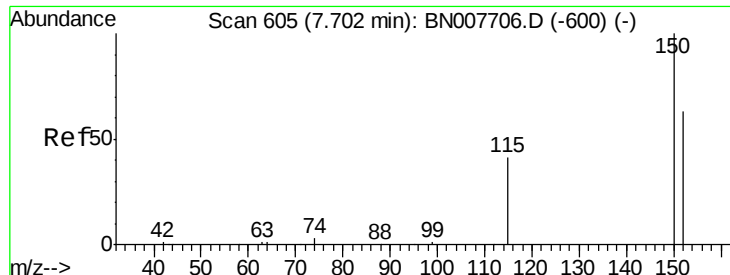
Instrument :
BNA_N
ClientSampleId :
EXT-SW093-091819-1DL

Manual Integrations
APPROVED

mohammad
9/30/2019 8:15:56 AM

Quant Time: Sep 30 12:07:06 2019
Quant Method : Z:\SVOASRV\HPCHEM1\BNA N\METHODS\8270-SIM-BN091819.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Sep 18 18:24:40 2019
Response via : Initial Calibration





#1

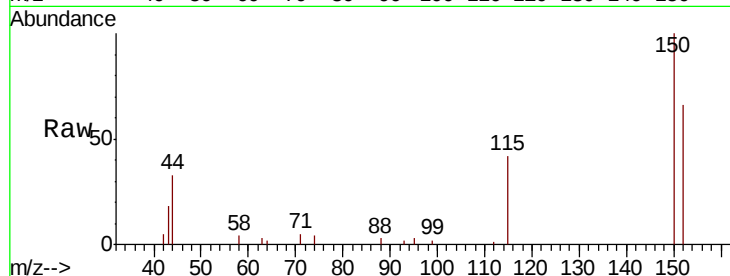
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.69 min Scan# 604
Delta R.T. -0.01 min
Lab File: BN007886.D
Acq: 27 Sep 2019 14:06

Instrument :
BNA_N
ClientSampleId :
EXT-SW093-091819-1DL

Tot Ion	Ratio	Lower	Upper
152	100		
150	151.9	125.6	188.4
115	63.3	53.3	79.9

Manual Integrations
APPROVED

mohammad
9/30/2019 8:15:56 AM

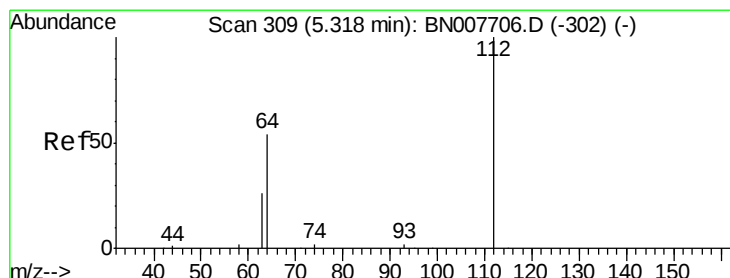
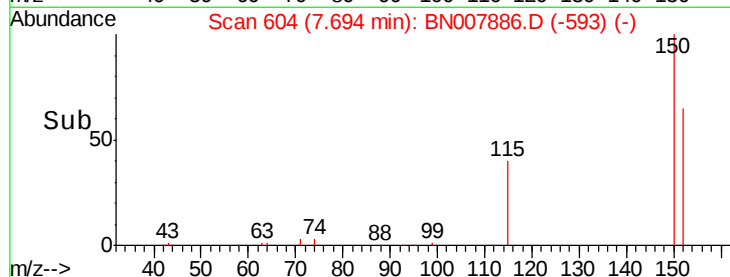
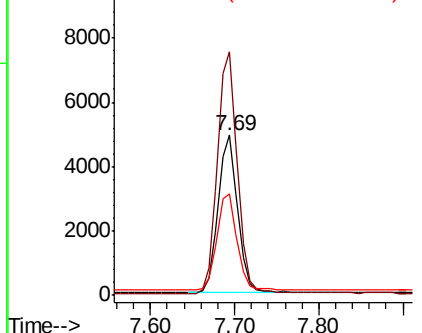


Abundance

Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

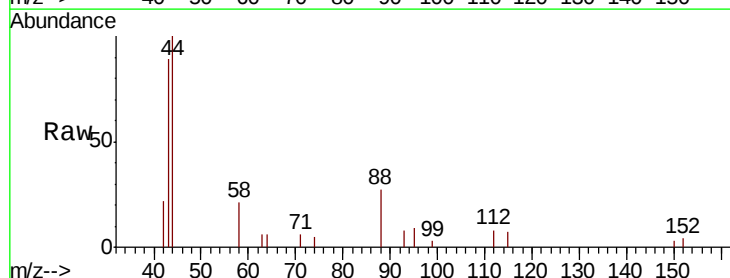
Ion 115.00 (114.70 to 115.70): E



#4

2-Fluorophenol
Concen: 0.007 ng
RT: 5.31 min Scan# 308
Delta R.T. -0.01 min
Lab File: BN007886.D
Acq: 27 Sep 2019 14:06

Tgt Ion	Ratio	Lower	Upper
112	100		
64	65.7	46.6	70.0
63	42.1	23.1	34.7

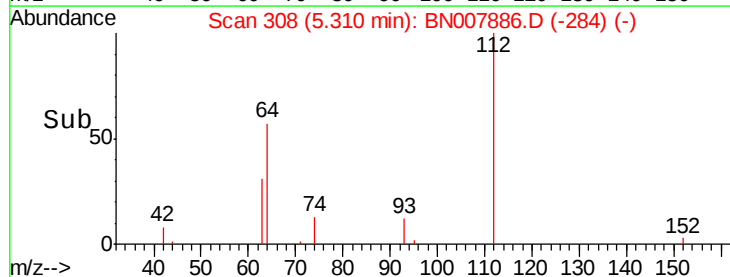
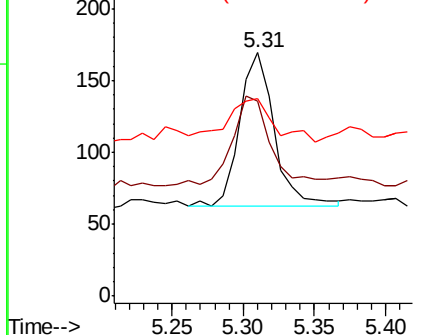


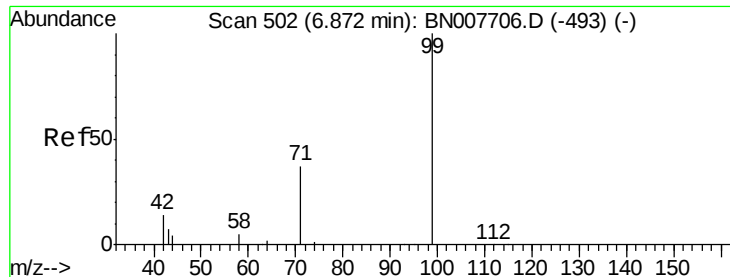
Abundance

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





#5

Phenol-d6

Concen: 0.001 ng

RT: 6.87 min Scan# 502

Delta R.T. 0.00 min

Lab File: BN007886.D

Acq: 27 Sep 2019 14:06

Instrument :

BNA_N

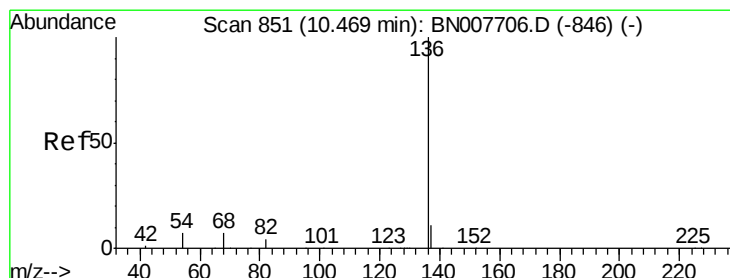
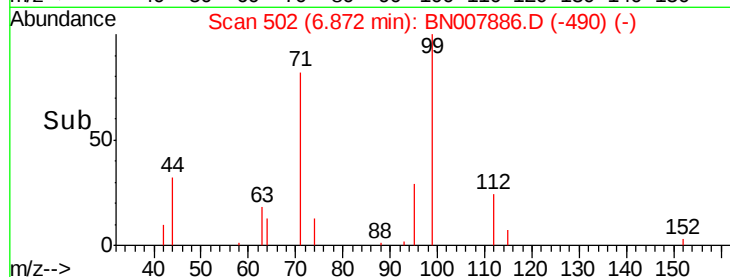
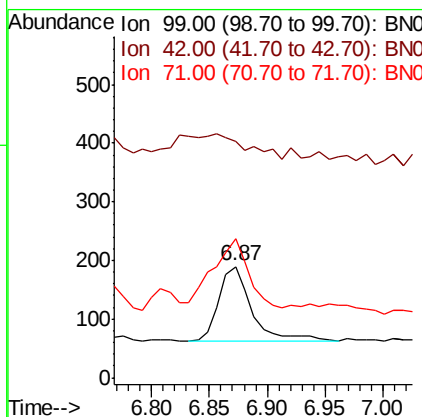
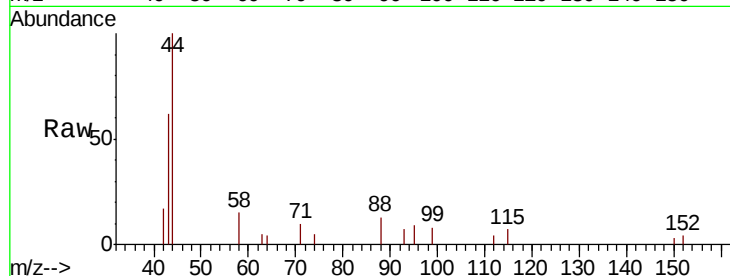
ClientSampleId :

EXT-SW093-091819-1DL

Tot Ion:	99	Resp:	252
Ion	Ratio	Lower	Upper
99	100		
42	0.0	12.8	19.2#
71	98.8	27.6	41.4#

Manual Integrations
APPROVED

mohammad
9/30/2019 8:15:56 AM



#7

Naphthalene-d8

Concen: 0.400 ng

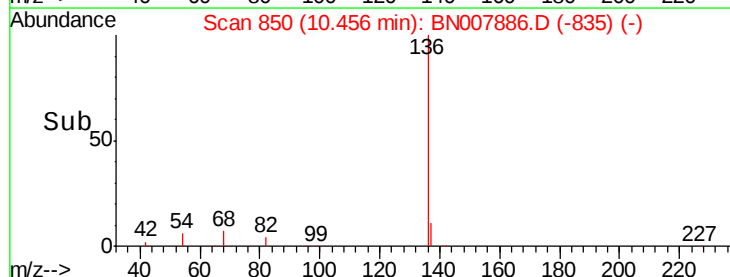
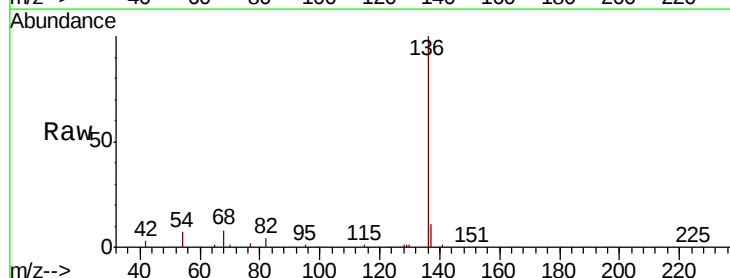
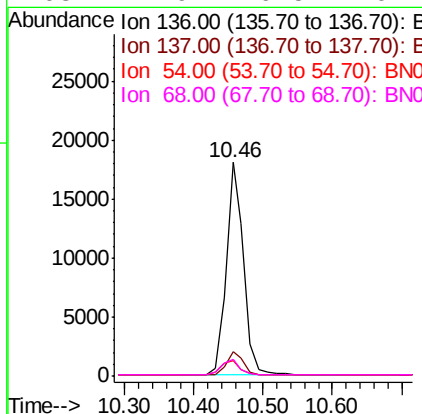
RT: 10.46 min Scan# 850

Delta R.T. -0.01 min

Lab File: BN007886.D

Acq: 27 Sep 2019 14:06

Tgt Ion:	136	Resp:	31914
Ion	Ratio	Lower	Upper
136	100		
137	11.3	9.2	13.8
54	7.0	5.8	8.8
68	7.9	6.5	9.7





#8

Nitrobenzene-d5

Concen: 0.009 ng

RT: 8.83 min Scan# 722

Delta R.T. 0.00 min

Lab File: BN007886.D

Acq: 27 Sep 2019 14:06

Instrument :

BNA_N

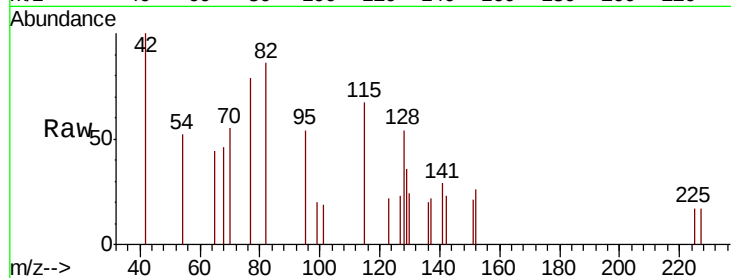
ClientSampleId :

EXT-SW093-091819-1DL

Tot Ion:	82	Resp:	246
Ion	Ratio	Lower	Upper
82	100		
128	63.3	24.5	36.7#
54	60.8	35.2	52.8#

Manual Integrations
APPROVED

mohammad
9/30/2019 8:15:56 AM

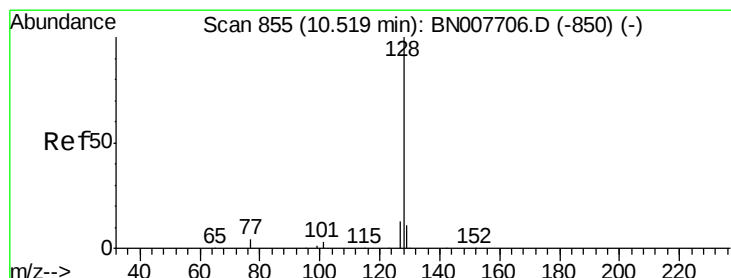
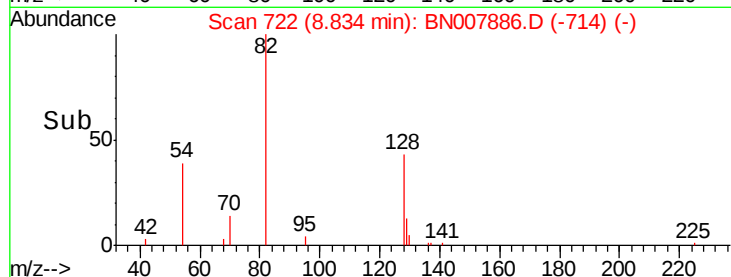
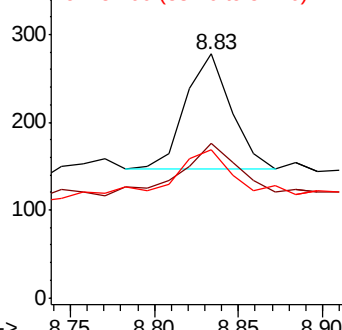


Abundance

Ion 82.00 (81.70 to 82.70): BNC

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BNC



#9

Naphthalene

Concen: 0.134 ng

RT: 10.51 min Scan# 854

Delta R.T. -0.01 min

Lab File: BN007886.D

Acq: 27 Sep 2019 14:06

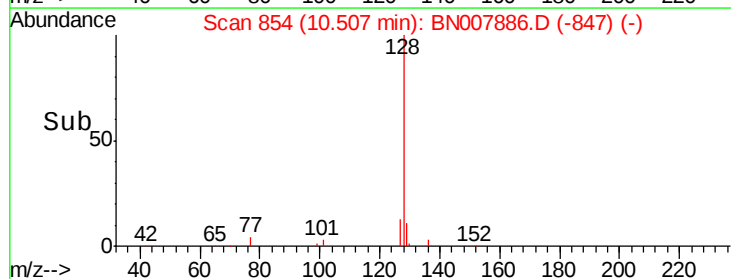
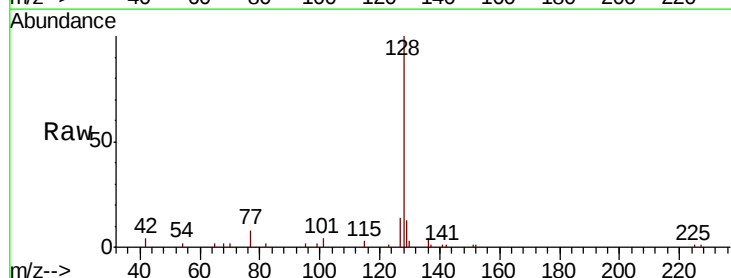
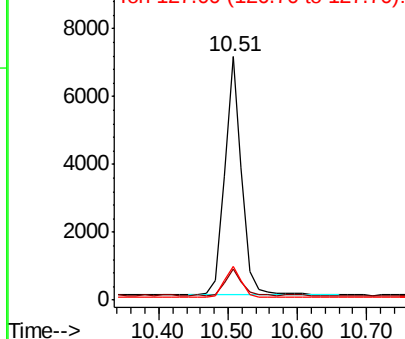
Tgt Ion:	128	Resp:	12046
Ion	Ratio	Lower	Upper
128	100		
129	12.7	9.1	13.7
127	14.0	10.6	15.8

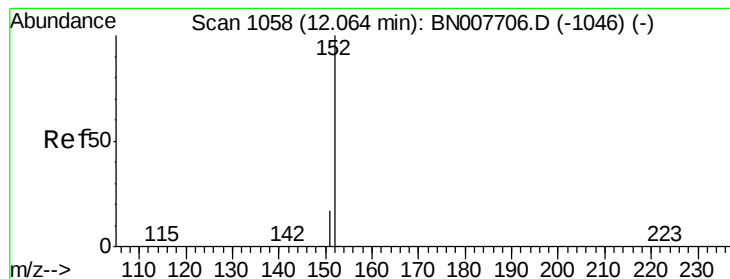
Abundance

Ion 128.00 (127.70 to 128.70): E

Ion 129.00 (128.70 to 129.70): E

Ion 127.00 (126.70 to 127.70): E





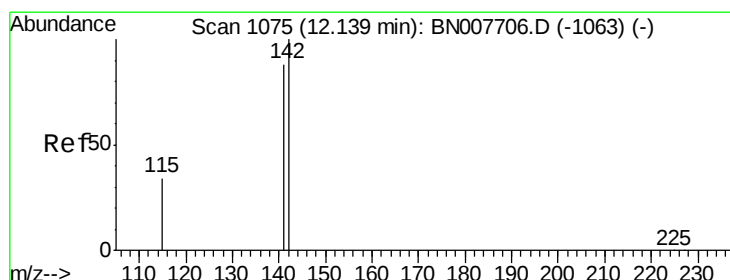
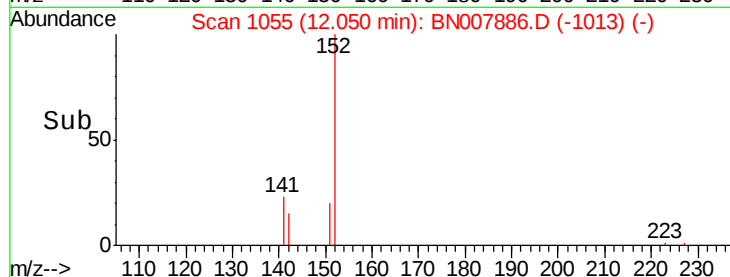
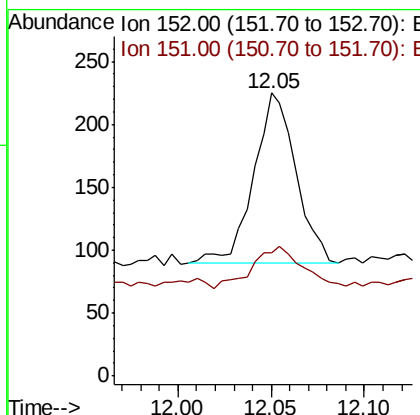
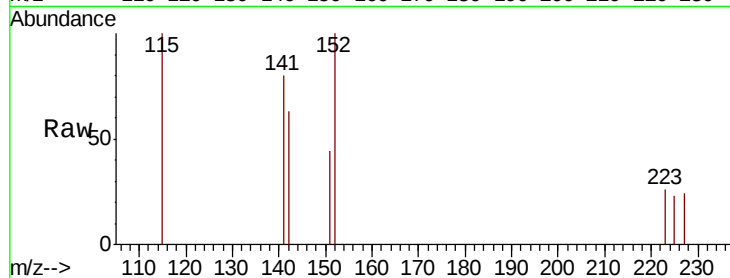
#11
2-Methylnaphthalene-d10
Concen: 0.004 ng
RT: 12.05 min Scan# 1055
Delta R.T. -0.01 min
Lab File: BN007886.D
Acq: 27 Sep 2019 14:06

Instrument :
BNA_N
ClientSampleId :
EXT-SW093-091819-1DL

Tot Ion:152 Resp: 213
Ion Ratio Lower Upper
152 100
151 31.0 15.4 23.2#

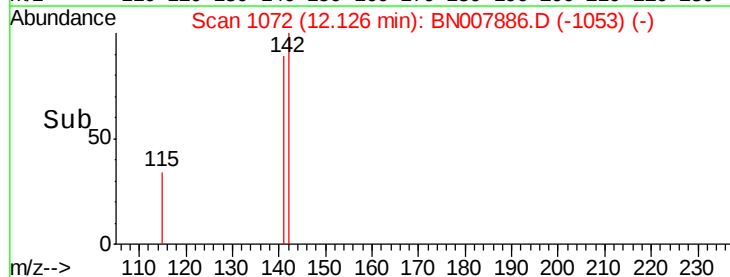
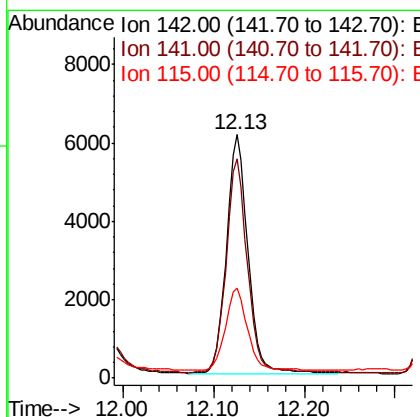
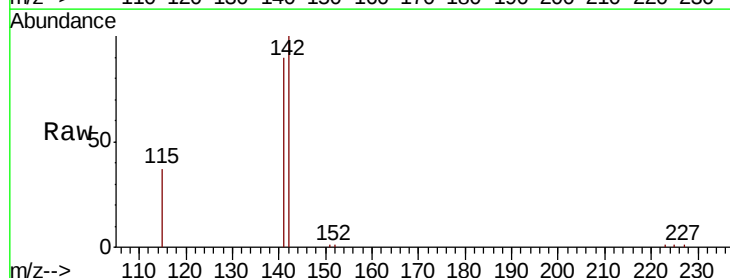
Manual Integrations
APPROVED

mohammad
9/30/2019 8:15:56 AM



#12
2-Methylnaphthalene
Concen: 0.164 ng
RT: 12.13 min Scan# 1072
Delta R.T. -0.01 min
Lab File: BN007886.D
Acq: 27 Sep 2019 14:06

Tgt Ion:142 Resp: 9947
Ion Ratio Lower Upper
142 100
141 89.8 70.6 106.0
115 36.7 28.3 42.5





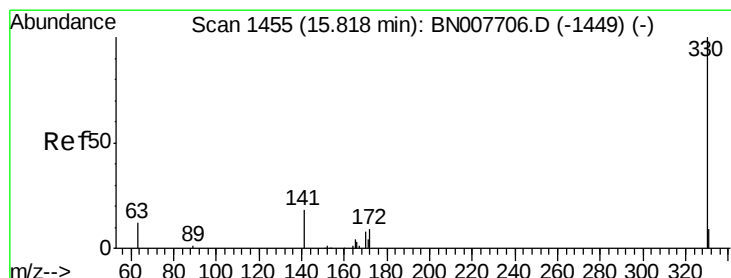
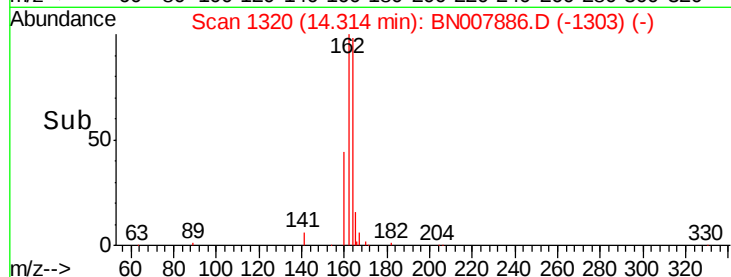
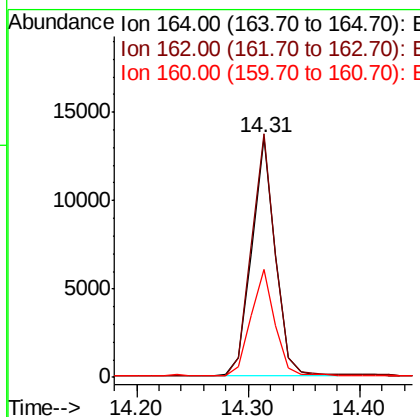
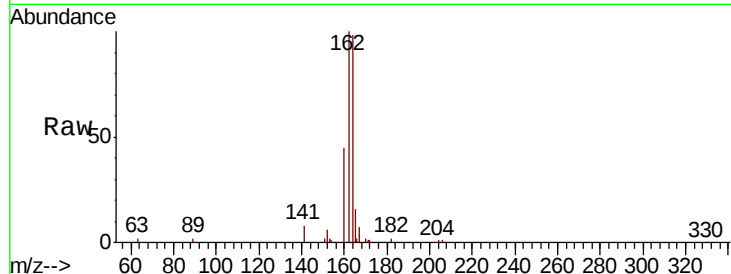
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.31 min Scan# 1320
Delta R.T. -0.01 min
Lab File: BN007886.D
Acq: 27 Sep 2019 14:06

Instrument :
BNA_N
ClientSampleId :
EXT-SW093-091819-1DL

Tot Ion	Ratio	Lower	Upper
164	100		
162	101.6	81.7	122.5
160	45.2	37.0	55.4

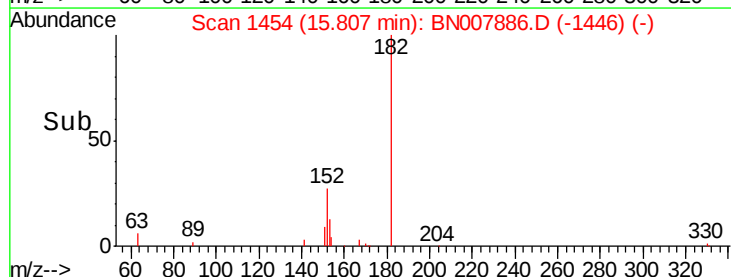
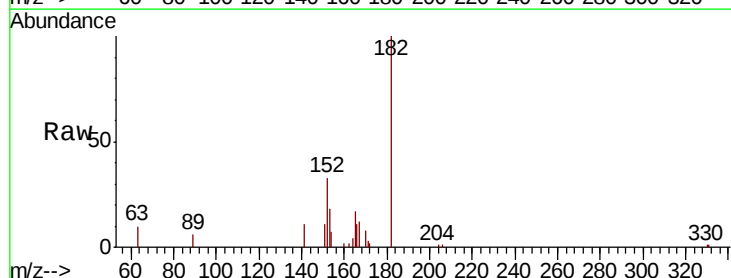
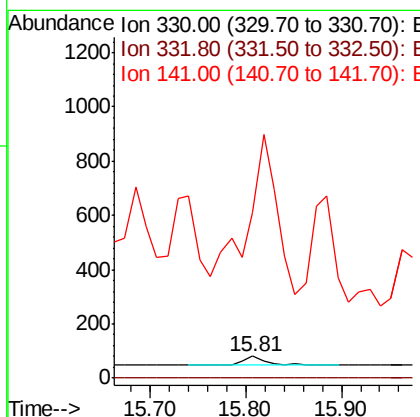
Manual Integrations
APPROVED

mohammad
9/30/2019 8:15:56 AM



#14
2,4,6-Tribromophenol
Concen: 0.005 ng
RT: 15.81 min Scan# 1454
Delta R.T. -0.01 min
Lab File: BN007886.D
Acq: 27 Sep 2019 14:06

Tgt Ion	Ratio	Lower	Upper
330	100		
332	0.0	0.0	0.0
141	2169.5	28.7	43.1#





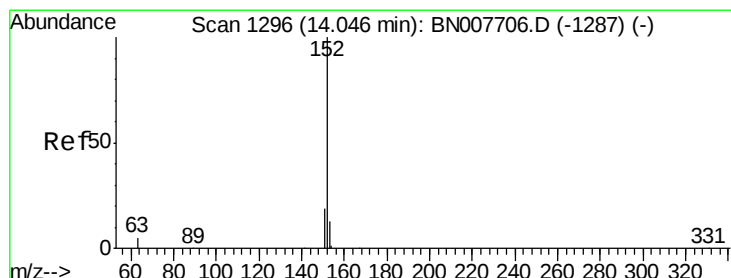
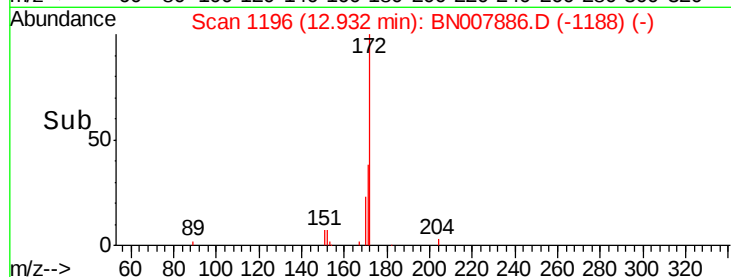
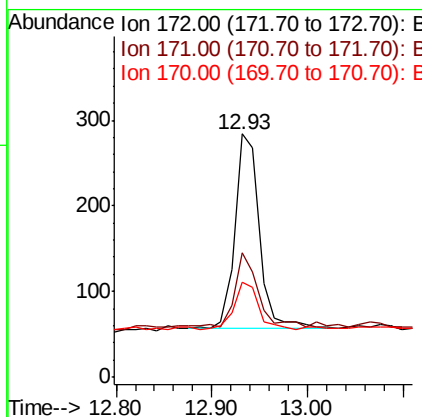
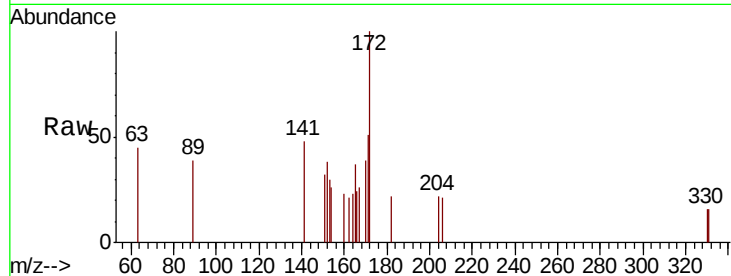
#15
2-Fluorobiphenyl
Concen: 0.005 ng
RT: 12.93 min Scan# 1196
Delta R.T. -0.01 min
Lab File: BN007886.D
Acq: 27 Sep 2019 14:06

Instrument :
BNA_N
ClientSampleId :
EXT-SW093-091819-1DL

Tot Ion	Ratio	Lower	Upper
172	100		
171	51.1	28.8	43.2#
170	39.1	19.5	29.3#

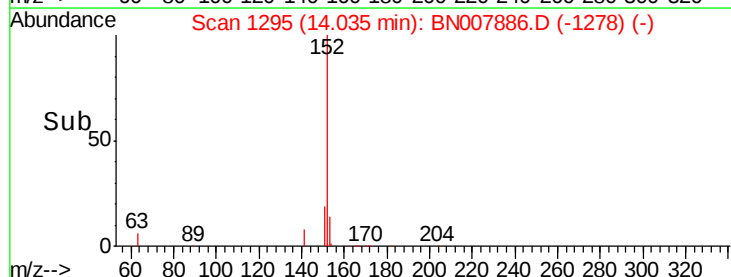
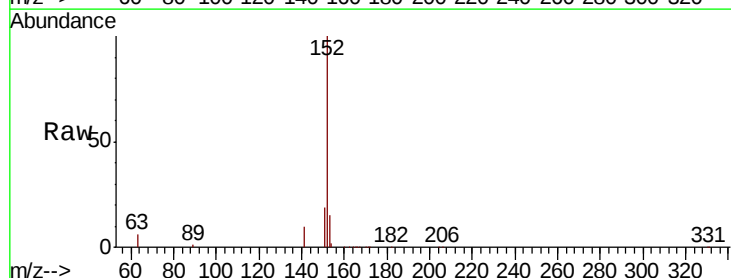
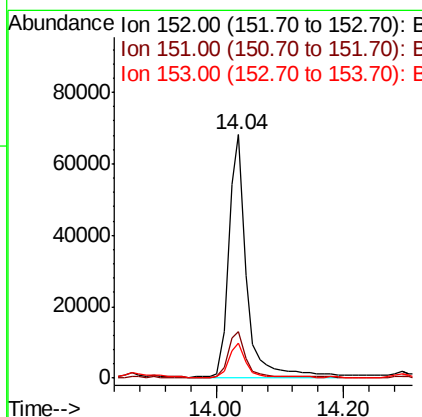
Manual Integrations
APPROVED

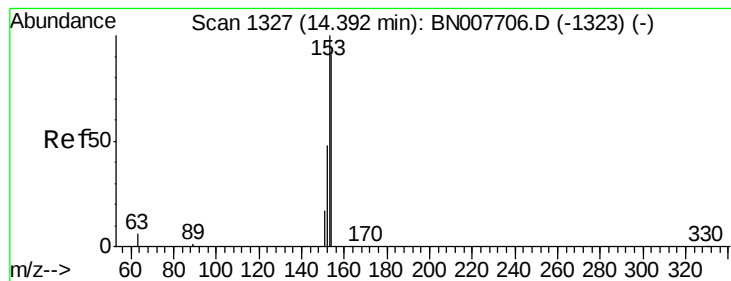
mohammad
9/30/2019 8:15:56 AM



#16
Acenaphthylene
Concen: 1.226 ng
RT: 14.04 min Scan# 1295
Delta R.T. -0.01 min
Lab File: BN007886.D
Acq: 27 Sep 2019 14:06

Tgt Ion	Ratio	Lower	Upper
152	100		
151	19.8	15.5	23.3
153	14.1	10.4	15.6





#17

Acenaphthene

Concen: 0.279 ng

RT: 14.38 min Scan# 1326

Delta R.T. -0.01 min

Lab File: BN007886.D

Acq: 27 Sep 2019 14:06

Instrument :

BNA_N

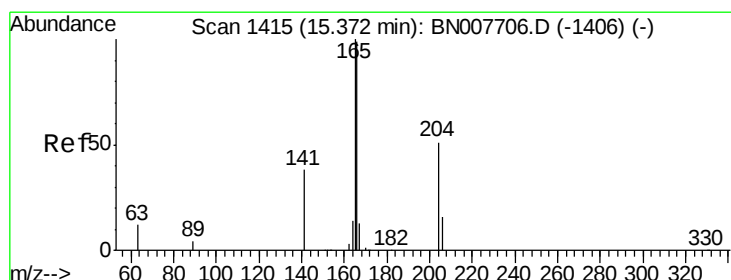
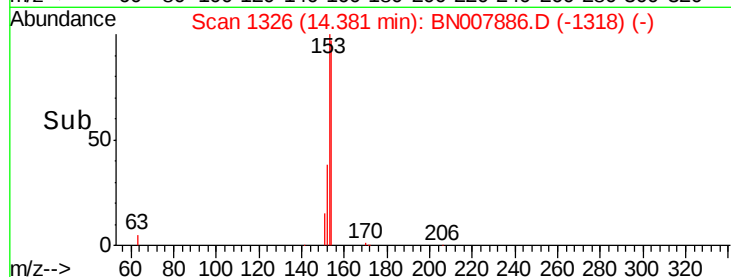
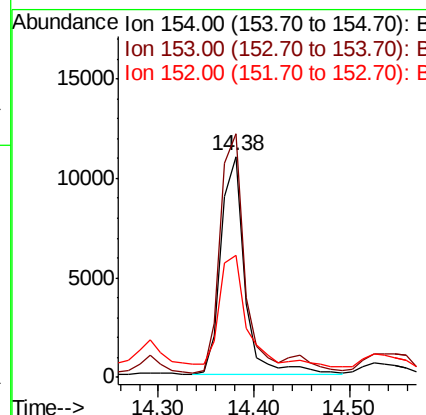
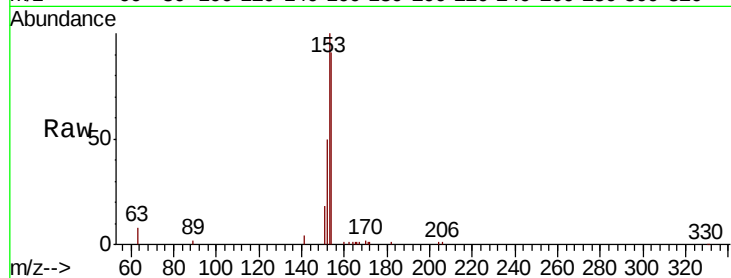
ClientSampleId :

EXT-SW093-091819-1DL

Tot Ion:	154	Resp:	19091
Ion Ratio	Lower	Upper	
154	100		
153	110.5	87.0	130.4
152	54.0	42.7	64.1

Manual Integrations
APPROVED

mohammad
9/30/2019 8:15:56 AM



#18

Fluorene

Concen: 0.520 ng

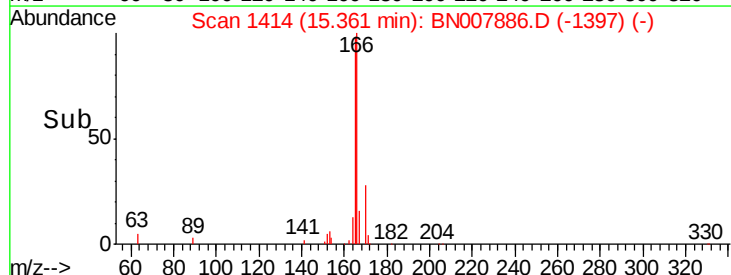
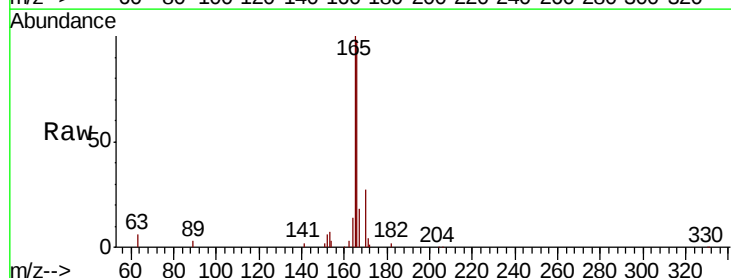
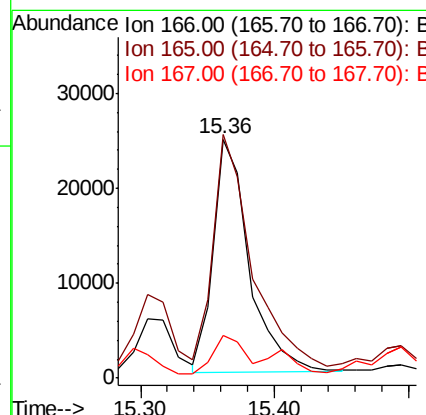
RT: 15.36 min Scan# 1414

Delta R.T. -0.01 min

Lab File: BN007886.D

Acq: 27 Sep 2019 14:06

Tgt Ion:	166	Resp:	45670
Ion Ratio	Lower	Upper	
166	100		
165	106.8	78.0	117.0
167	16.1	10.9	16.3





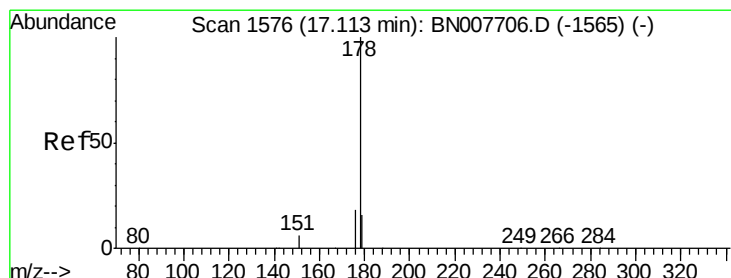
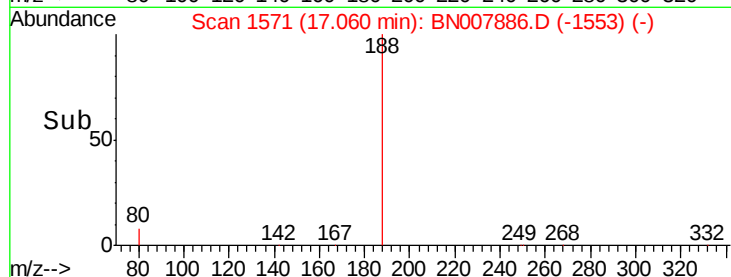
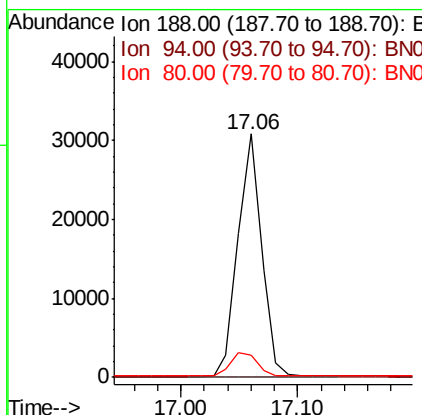
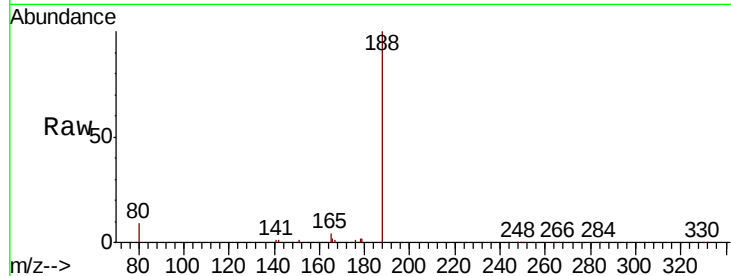
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.06 min Scan# 1571
Delta R.T. -0.01 min
Lab File: BN007886.D
Acq: 27 Sep 2019 14:06

Instrument :
BNA_N
ClientSampleId :
EXT-SW093-091819-1DL

Tot Ion	Ratio	Resp	Lower	Upper
188	100	43128		
94	0.0	0.0	0.0	0.0
80	9.2	7.4	11.2	

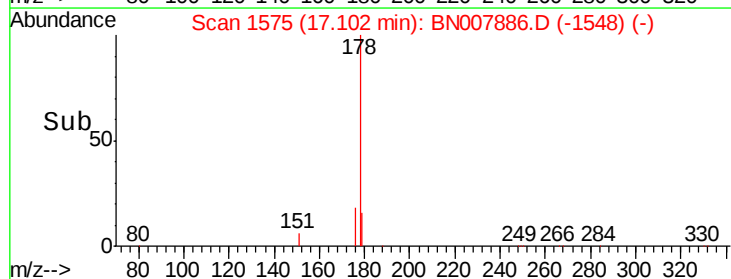
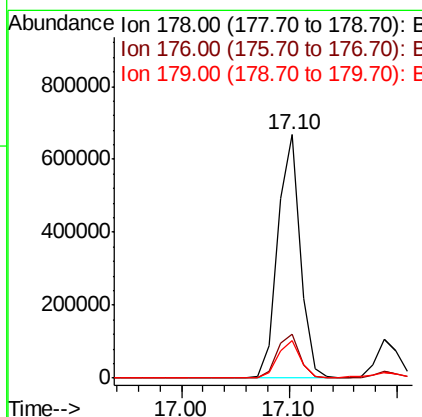
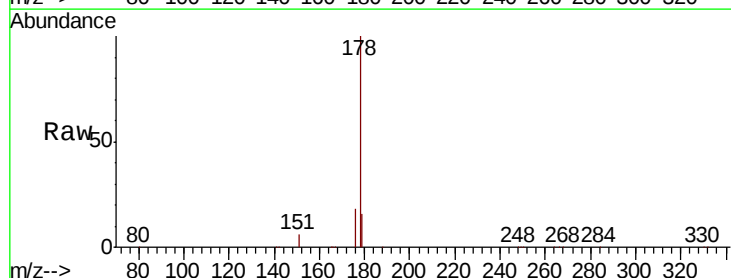
Manual Integrations
APPROVED

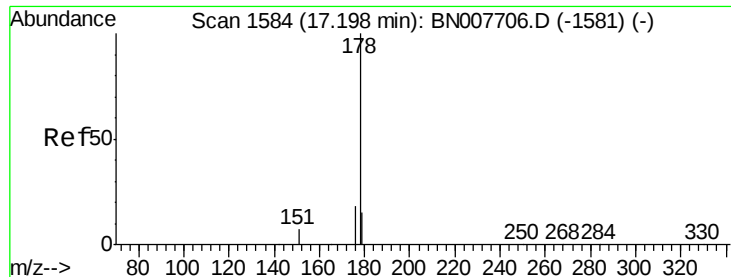
mohammad
9/30/2019 8:15:56 AM



#23
Phenanthrene
Concen: 7.133 ng
RT: 17.10 min Scan# 1575
Delta R.T. -0.01 min
Lab File: BN007886.D
Acq: 27 Sep 2019 14:06

Tgt Ion	Ratio	Resp	Lower	Upper
178	100	958310		
176	18.6	14.9	22.3	
179	15.6	12.5	18.7	





#24

Anthracene

Concen: 1.224 ng

RT: 17.19 min Scan# 1583

Delta R.T. -0.01 min

Lab File: BN007886.D

Acq: 27 Sep 2019 14:06

Instrument :

BNA_N

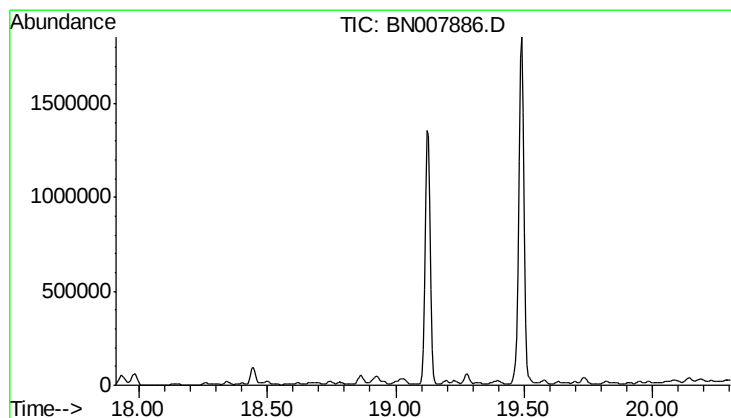
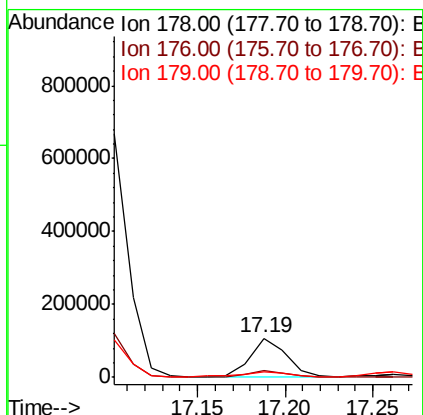
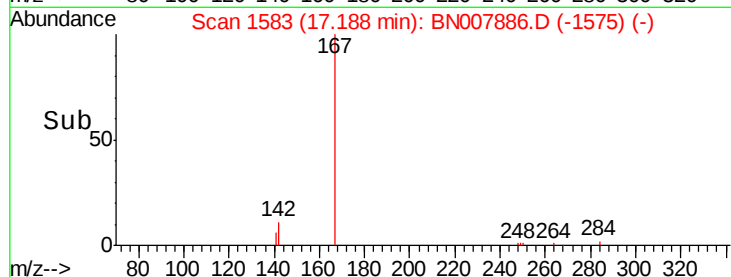
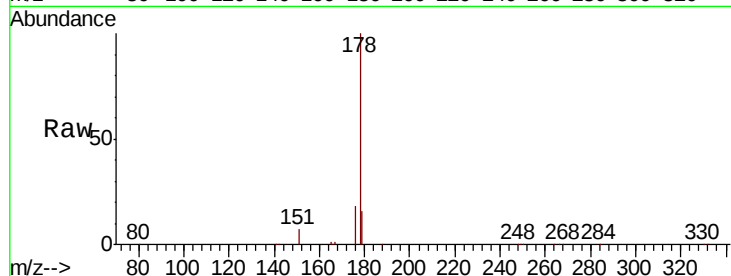
ClientSampleId :

EXT-SW093-091819-1DL

Tot Ion:	178	Resp:	148527
Ion Ratio	Lower	Upper	
178	100		
176	18.1	14.6	21.8
179	16.3	12.2	18.4

Manual Integrations
APPROVED

mohammad
9/30/2019 8:15:56 AM



#25

Fluoranthene-d10

Concen: 0.000 ng

Expected RT: 19.11 min

Lab File: BN007886.D

Acq: 27 Sep 2019 14:06

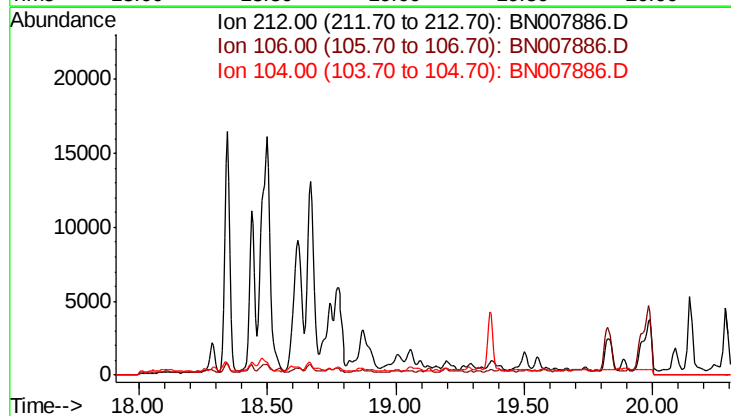
Tgt Ion: 212

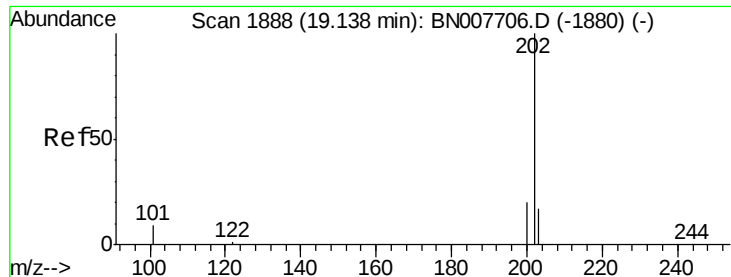
Sig Exp Ratio

212 100

106 11.7

104 6.6





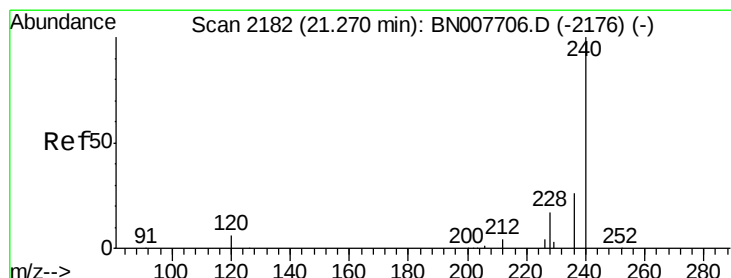
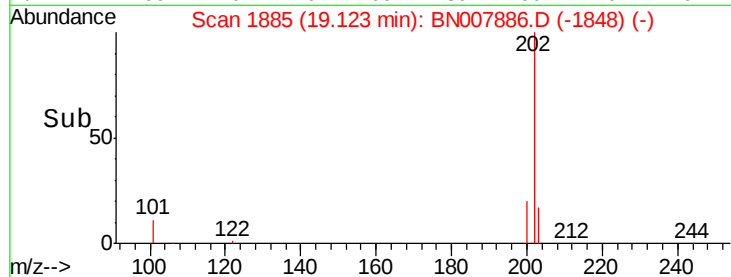
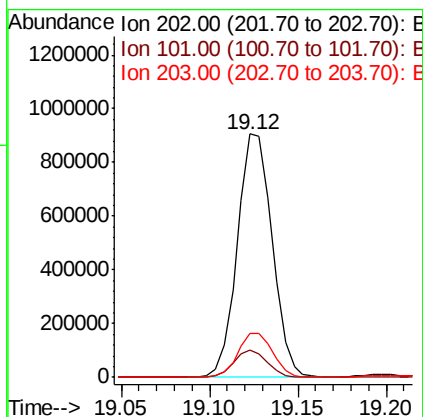
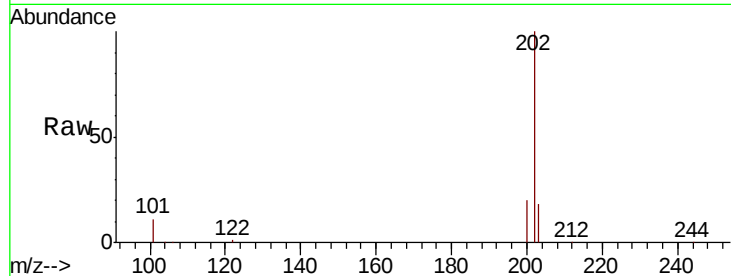
#26
Fluoranthene
 Concen: 7.397 ng
 RT: 19.12 min Scan# 1885
 Delta R.T. -0.01 min
 Lab File: BN007886.D
 Acq: 27 Sep 2019 14:06

Instrument :
 BNA_N
 ClientSampleId :
 EXT-SW093-091819-1DL

Tot Ion	Ratio	Lower	Upper
202	100		
101	10.6	8.4	12.6
203	18.1	13.8	20.8

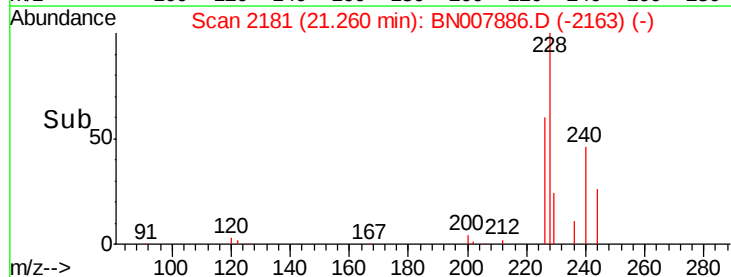
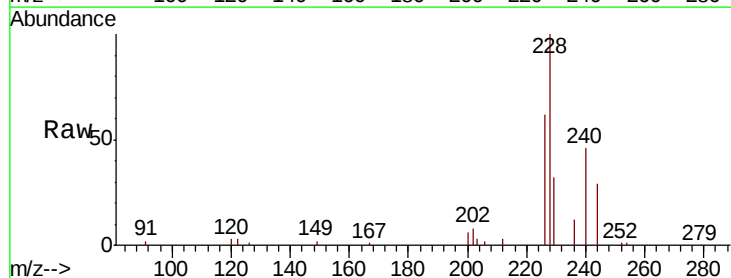
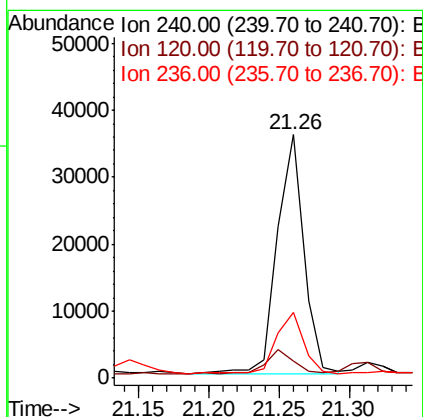
Manual Integrations
 APPROVED

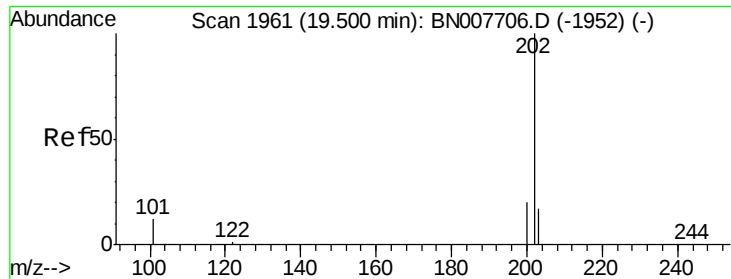
mohammad
 9/30/2019 8:15:56 AM



#27
Chrysene-d12
 Concen: 0.400 ng
 RT: 21.26 min Scan# 2181
 Delta R.T. -0.01 min
 Lab File: BN007886.D
 Acq: 27 Sep 2019 14:06

Tgt Ion	Ratio	Lower	Upper
240	100		
120	7.2	5.4	8.2
236	27.2	21.0	31.4





#28

Pvrene

Concen: 10.439 ng

RT: 19.49 min Scan# 1959

Delta R.T. -0.01 min

Lab File: BN007886.D

Acq: 27 Sep 2019 14:06

Instrument :

BNA_N

ClientSampleId :

EXT-SW093-091819-1DL

Tot Ion:202 Resp: 1658345

Ion Ratio Lower Upper

202 100

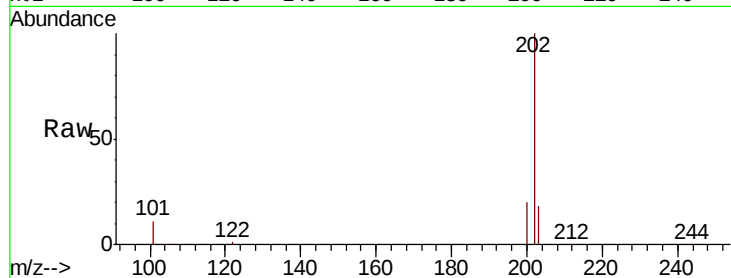
200 20.5 16.4 24.6

203 20.7 14.1 21.1

Manual Integrations
APPROVED

mohammad

9/30/2019 8:15:56 AM

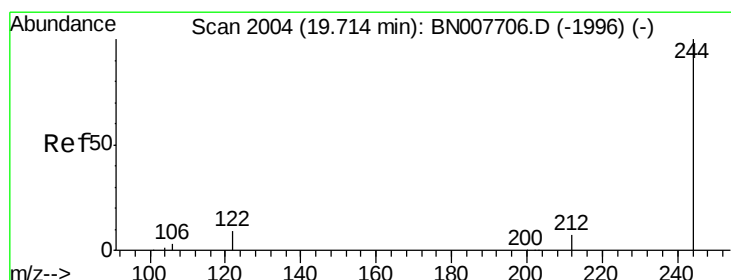
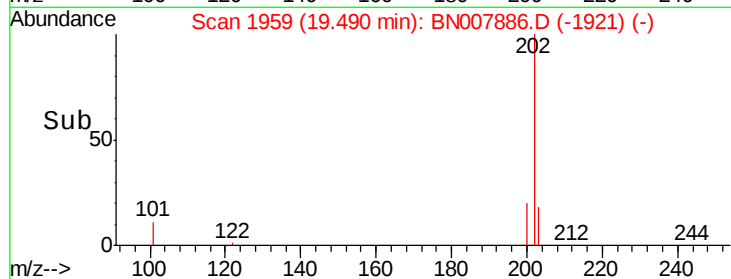
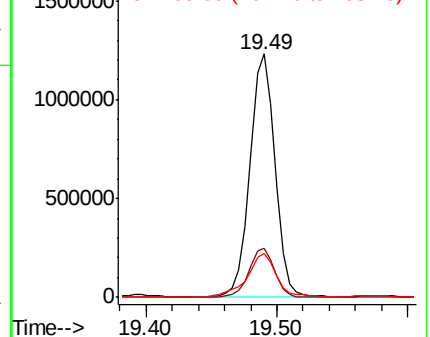


Abundance

Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E



#29

Terphenyl-d14

Concen: 0.011 ng

RT: 19.69 min Scan# 2000

Delta R.T. -0.02 min

Lab File: BN007886.D

Acq: 27 Sep 2019 14:06

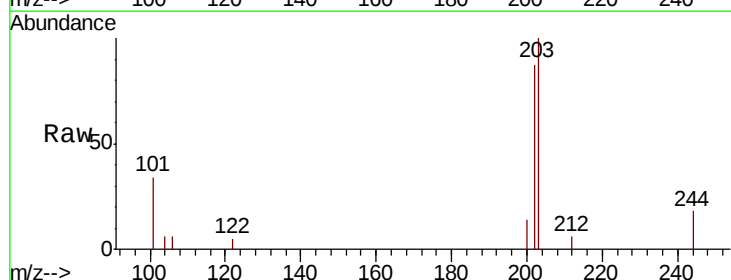
Tgt Ion:244 Resp: 1315

Ion Ratio Lower Upper

244 100

212 32.2 5.9 8.9#

122 28.4 7.4 11.2#

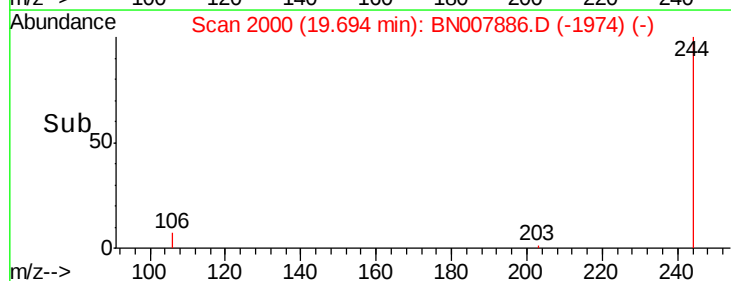
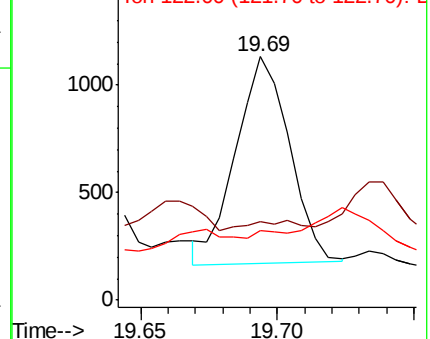


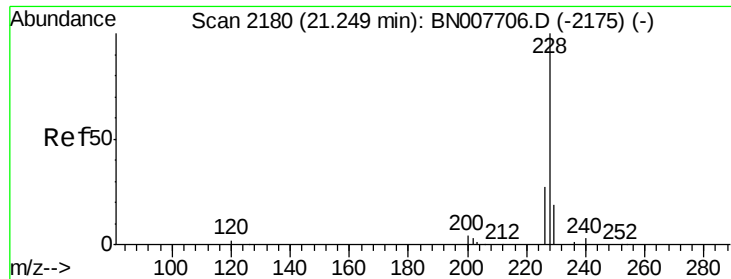
Abundance

Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





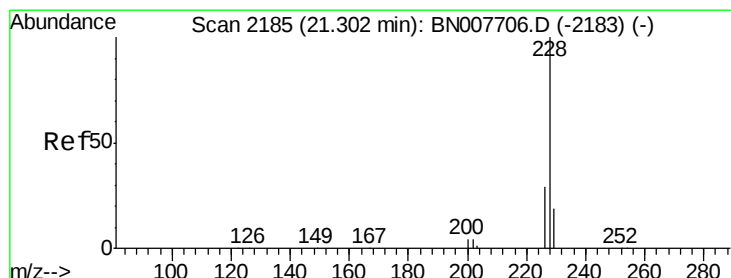
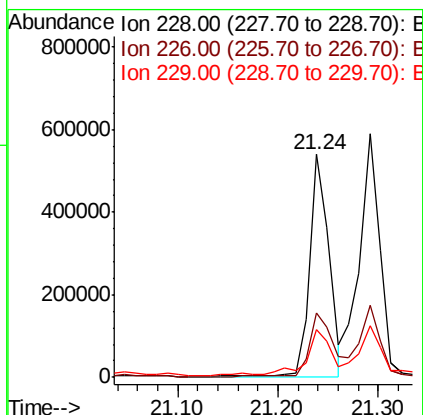
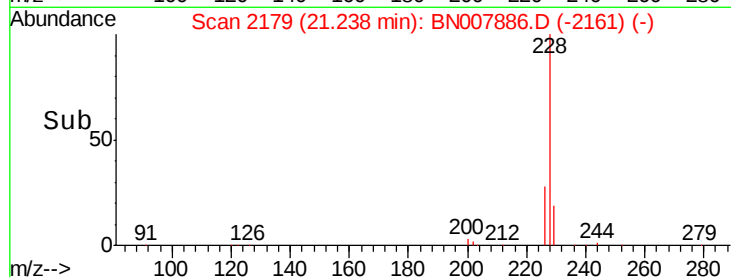
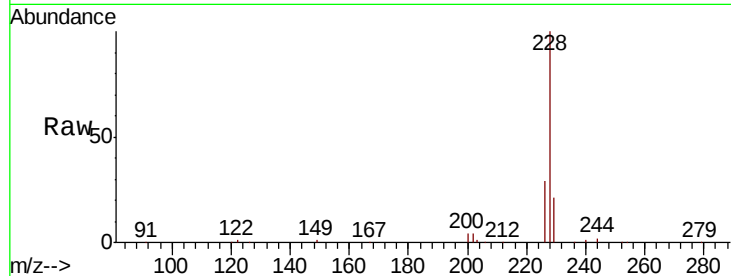
#30
Benzo(a)anthracene
Concen: 4.252 ng
RT: 21.24 min Scan# 2179
Delta R.T. -0.01 min
Lab File: BN007886.D
Acq: 27 Sep 2019 14:06

Instrument :
BNA_N
ClientSampleId :
EXT-SW093-091819-1DL

Tot Ion	Ratio	Lower	Upper
228	100		
226	29.1	22.1	33.1
229	21.2	15.8	23.6

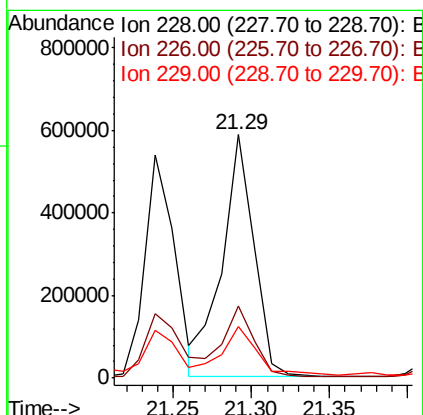
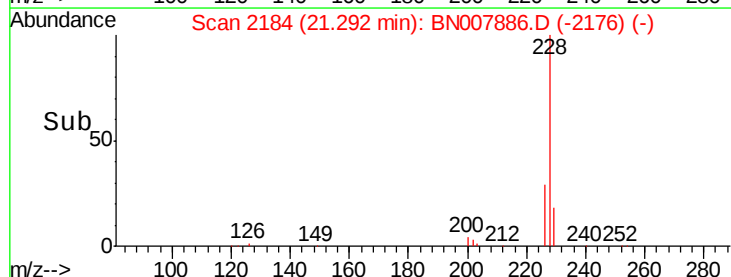
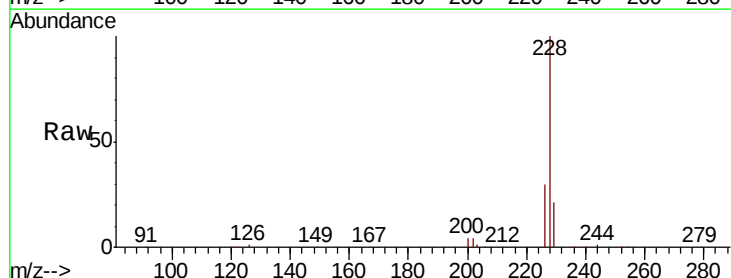
Manual Integrations
APPROVED

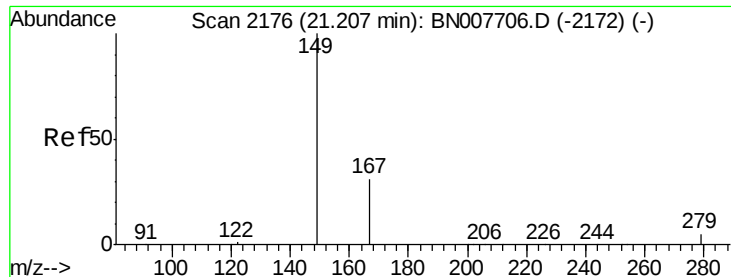
mohammad
9/30/2019 8:15:56 AM



#31
Chrysene
Concen: 4.964 ng
RT: 21.29 min Scan# 2184
Delta R.T. -0.01 min
Lab File: BN007886.D
Acq: 27 Sep 2019 14:06

Tgt Ion	Ratio	Lower	Upper
228	100		
226	29.8	23.9	35.9
229	21.4	15.8	23.6





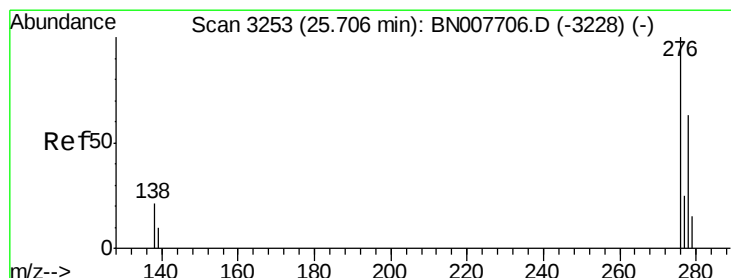
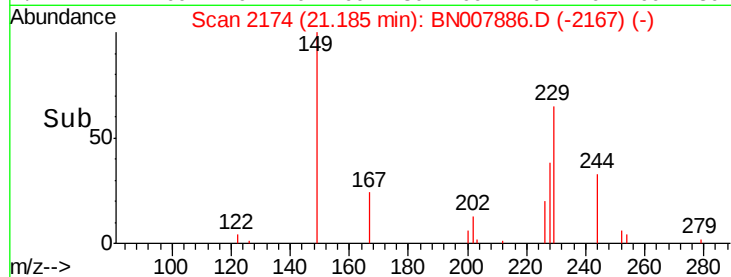
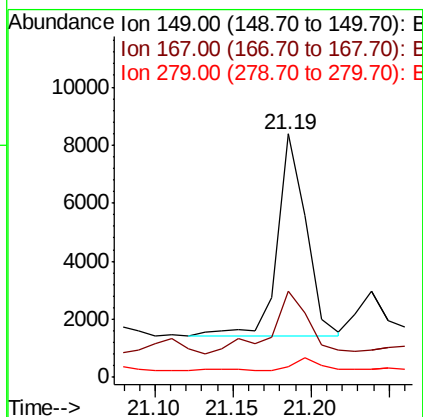
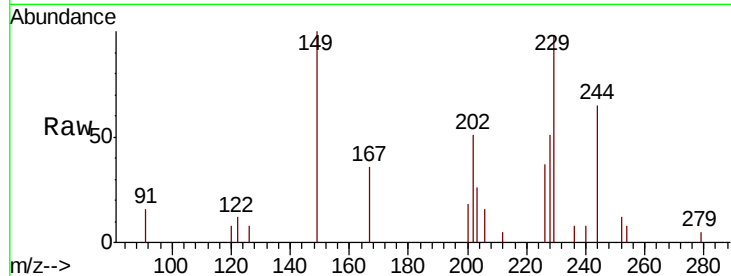
#32
 Bis(2-ethylhexyl)phthalate
 Concen: 0.099 ng
 RT: 21.19 min Scan# 2174
 Delta R.T. -0.02 min
 Lab File: BN007886.D
 Acq: 27 Sep 2019 14:06

Instrument :
 BNA_N
 ClientSampleId :
 EXT-SW093-091819-1DL

Tot Ion	Ratio	Lower	Upper
149	100		
167	42.7	23.7	35.5
279	5.6	4.2	6.2

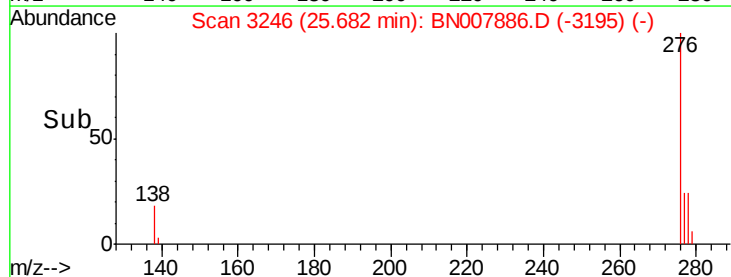
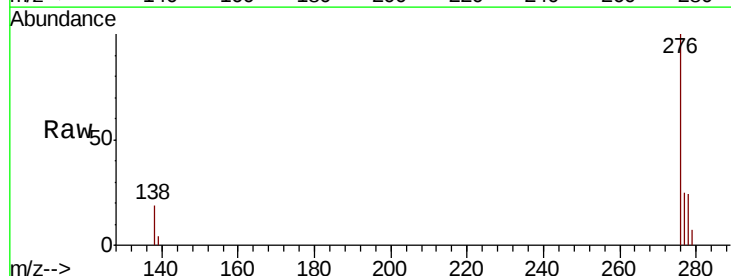
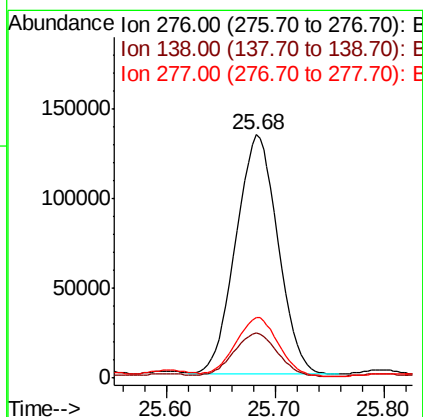
Manual Integrations
 APPROVED

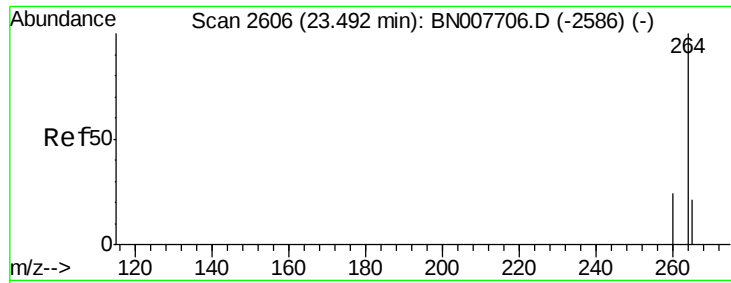
mohammad
 9/30/2019 8:15:56 AM



#33
 Indeno(1,2,3-cd)pyrene
 Concen: 1.710 ng
 RT: 25.68 min Scan# 3246
 Delta R.T. -0.02 min
 Lab File: BN007886.D
 Acq: 27 Sep 2019 14:06

Tgt Ion	Ratio	Lower	Upper
276	100		
138	18.6	17.1	25.7
277	24.9	20.0	30.0





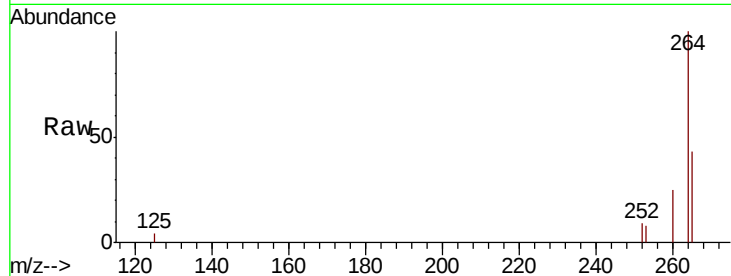
#34
Pervlene-d12
Concen: 0.400 ng
RT: 23.47 min Scan# 2601
Delta R.T. -0.02 min
Lab File: BN007886.D
Acq: 27 Sep 2019 14:06

Instrument :
BNA_N
ClientSampleId :
EXT-SW093-091819-1DL

Tot Ion	Ratio	Lower	Upper
264	100		
260	24.7	19.3	28.9
265	43.5	26.9	40.3

Manual Integrations
APPROVED

mohammad
9/30/2019 8:15:56 AM

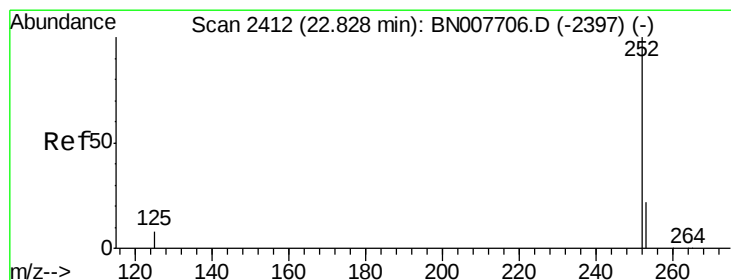
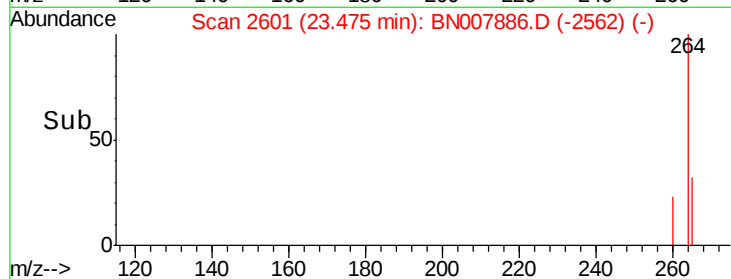
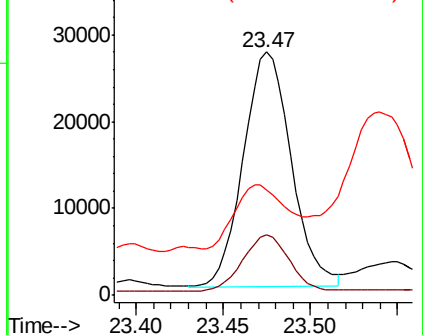


Abundance

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



#35
Benzo(b)fluoranthene
Concen: 4.171 ng
RT: 22.82 min Scan# 2409
Delta R.T. -0.01 min
Lab File: BN007886.D
Acq: 27 Sep 2019 14:06

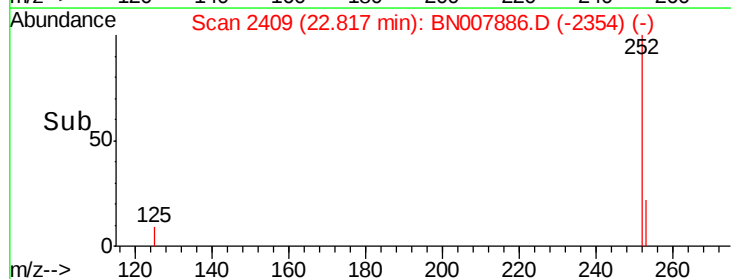
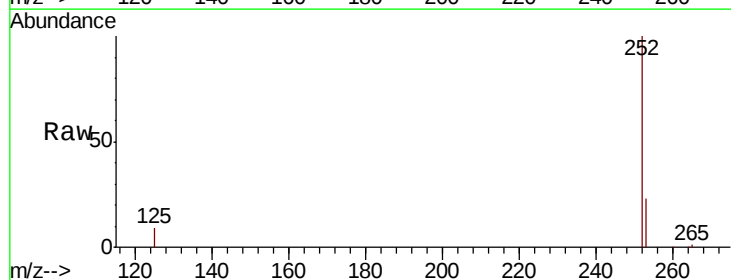
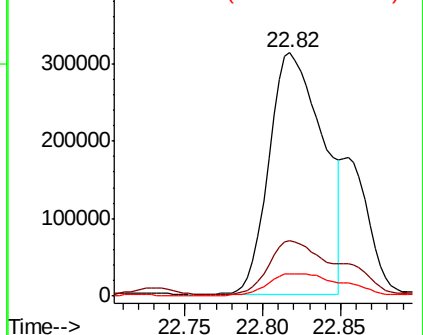
Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.0	18.3	27.5
125	9.3	8.2	12.4

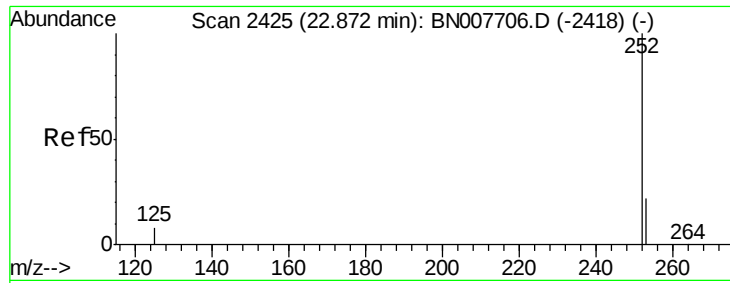
Abundance

Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





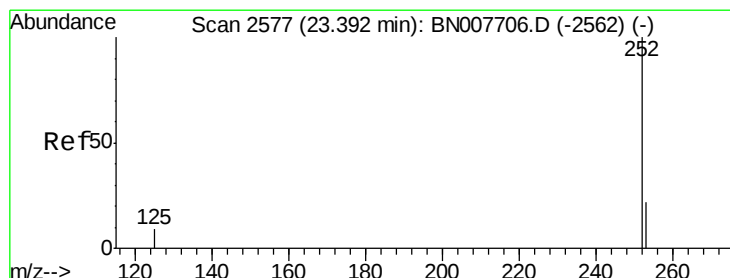
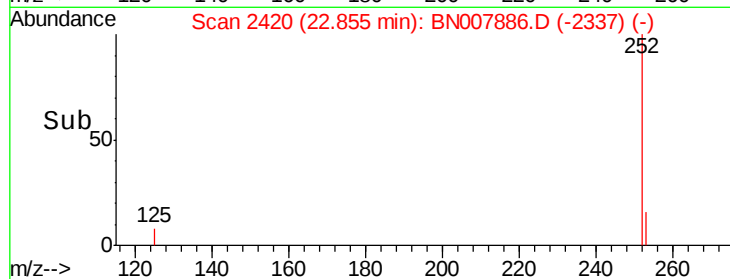
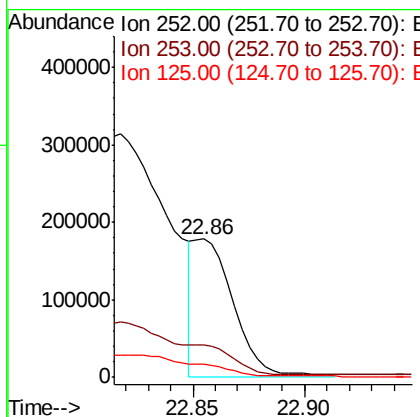
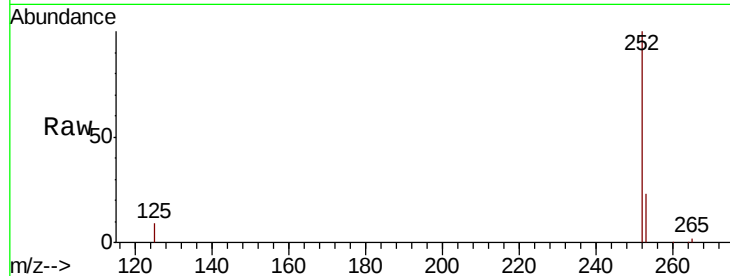
#36
Benzo(k)fluoranthene
Concen: 1.252 ng m
RT: 22.86 min Scan# 2420
Delta R.T. -0.02 min
Lab File: BN007886.D
Acq: 27 Sep 2019 14:06

Instrument :
BNA_N
ClientSampleId :
EXT-SW093-091819-1DL

Tot Ion	Ratio	Lower	Upper
252	100		
253	23.5	18.5	27.7
125	9.2	8.4	12.6

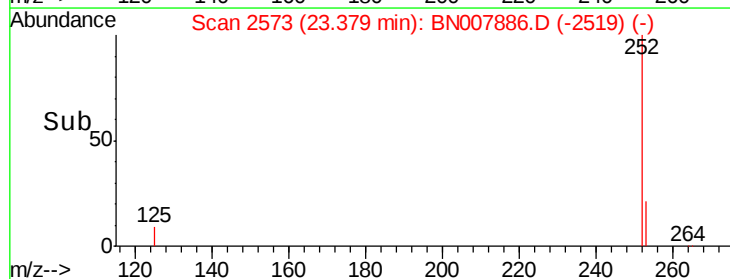
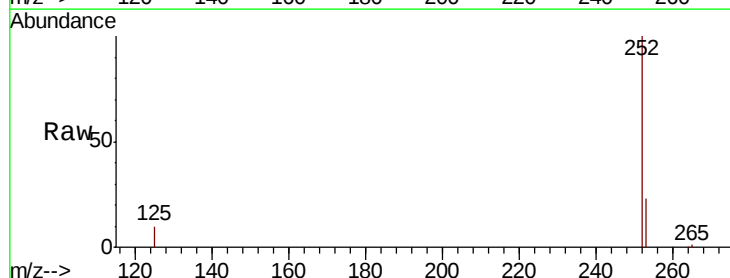
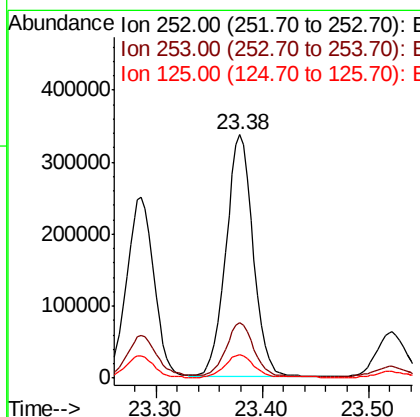
Manual Integrations
APPROVED

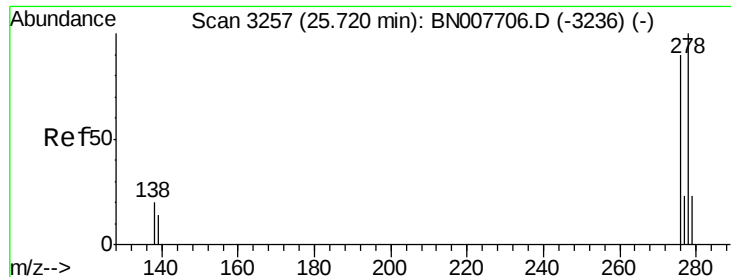
mohammad
9/30/2019 8:15:56 AM



#37
Benzo(a)pyrene
Concen: 3.509 ng
RT: 23.38 min Scan# 2573
Delta R.T. -0.01 min
Lab File: BN007886.D
Acq: 27 Sep 2019 14:06

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.8	18.6	27.8
125	9.6	9.4	14.0





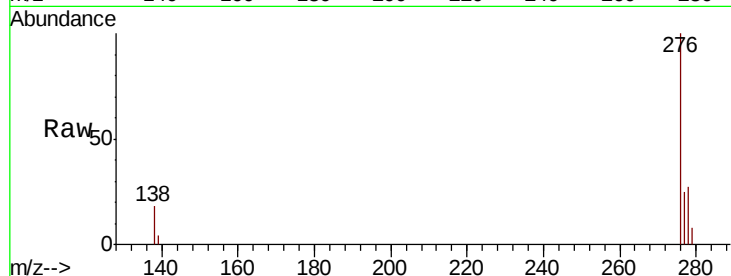
#38
Dibenzo(a,h)anthracene
Concen: 0.603 ng
RT: 25.69 min Scan# 3248
Delta R.T. -0.03 min
Lab File: BN007886.D
Acq: 27 Sep 2019 14:06

Instrument :
BNA_N
ClientSampleId :
EXT-SW093-091819-1DL

Tot Ion	Ratio	Lower	Upper
278	100		
139	15.9	11.8	17.6
279	28.9	19.4	29.2

Manual Integrations
APPROVED

mohammad
9/30/2019 8:15:56 AM

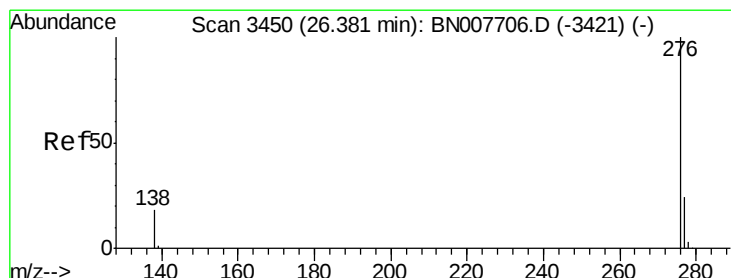
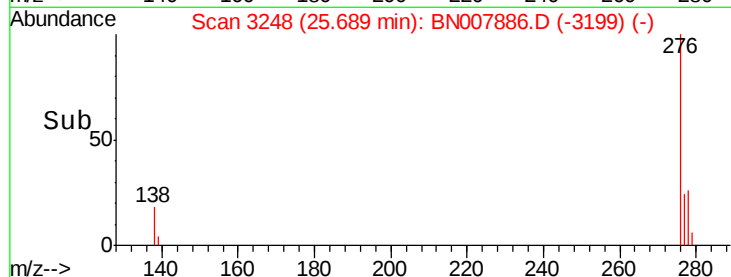
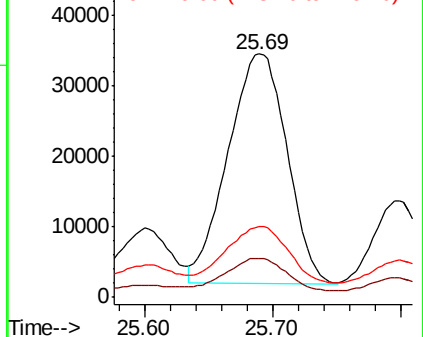


Abundance

Ion 278.00 (277.70 to 278.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 279.00 (278.70 to 279.70): E



#39
Benzo(g,h,i)perylene
Concen: 2.324 ng
RT: 26.36 min Scan# 3444
Delta R.T. -0.02 min
Lab File: BN007886.D
Acq: 27 Sep 2019 14:06

Tgt Ion	Ratio	Lower	Upper
276	100		
277	24.2	19.8	29.8
138	18.5	15.1	22.7

Abundance

Ion 276.00 (275.70 to 276.70): E

Ion 277.00 (276.70 to 277.70): E

Ion 138.00 (137.70 to 138.70): E

