

Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN070119\
 Data File : BN006663.D
 Acq On : 01 Jul 2019 16:29
 Operator : HP/JU
 Sample : K3504-11
 Misc :
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 PST-029-SW108-062019

Manual Integrations
 APPROVED

mohammad
 7/2/2019 2:52:23 PM

Quant Time: Jul 02 05:34:09 2019

Quant Method : Z:\SVOASRV\HPCHEM1\BNA N\METHODS\8270-SIM-BN062819.M

Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

QLast Update : Fri Jun 28 13:47:56 2019

Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.62	152	4664	0.40	ng	0.00
7) Naphthalene-d8	10.40	136	18696	0.40	ng	0.00
13) Acenaphthene-d10	14.27	164	10131	0.40	ng	-0.01
19) Phenanthrene-d10	17.03	188	21117	0.40	ng	-0.01
27) Chrysene-d12	21.26	240	19512	0.40	ng	-0.01
34) Perylene-d12	23.50	264	22042	0.40	ng	-0.03

System Monitoring Compounds

4) 2-Fluorophenol	5.24	112	3196	0.28	ng	0.00
5) Phenol-d6	6.82	99	4328	0.29	ng	0.00
8) Nitrobenzene-d5	8.79	82	3042	0.24	ng	0.00
11) 2-Methylnaphthalene-d10	12.00	152	6862	0.23	ng	0.00
14) 2,4,6-Tribromophenol	15.78	330	1196	0.25	ng	-0.01
15) 2-Fluorobiphenyl	12.88	172	8944	0.24	ng	-0.01
25) Fluoranthene-d10	19.07	212	11562	0.19	ng	-0.01
29) Terphenyl-d14	19.68	244	7852	0.19	ng	0.00

Target Compounds

						Qvalue
9) Naphthalene	10.44	128	9741	0.198	ng	98
12) 2-Methylnaphthalene	12.07	142	5792	0.171	ng	97
16) Acenaphthylene	13.99	152	46002	0.952	ng	99
17) Acenaphthene	14.33	154	3333	0.105	ng	# 94
18) Fluorene	15.32	166	8507	0.212	ng	# 84
23) Phenanthrene	17.07	178	170059	2.832	ng	100
24) Anthracene	17.16	178	36813	0.707	ng	99
26) Fluoranthene	19.11	202	255769	3.505	ng	98
28) Pyrene	19.47	202	311238	4.559	ng	97
30) Benzo(a)anthracene	21.24	228	131613	2.063	ng	96
31) Chrysene	21.29	228	166413	2.420	ng	96
32) Bis(2-ethylhexyl)phthalate	21.16	149	26739	0.833	ng	99
33) Indeno(1,2,3-cd)pyrene	25.73	276	84820	1.219	ng	97
35) Benzo(b)fluoranthene	22.83	252	169191	2.257	ng	98
36) Benzo(k)fluoranthene	22.87	252	56809m	0.711	ng	
37) Benzo(a)pyrene	23.40	252	129674	1.850	ng	99
38) Dibenzo(a,h)anthracene	25.73	278	24878	0.406	ng	# 79
39) Benzo(a,h,i)perylene	26.42	276	91093	1.490	ng	99

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

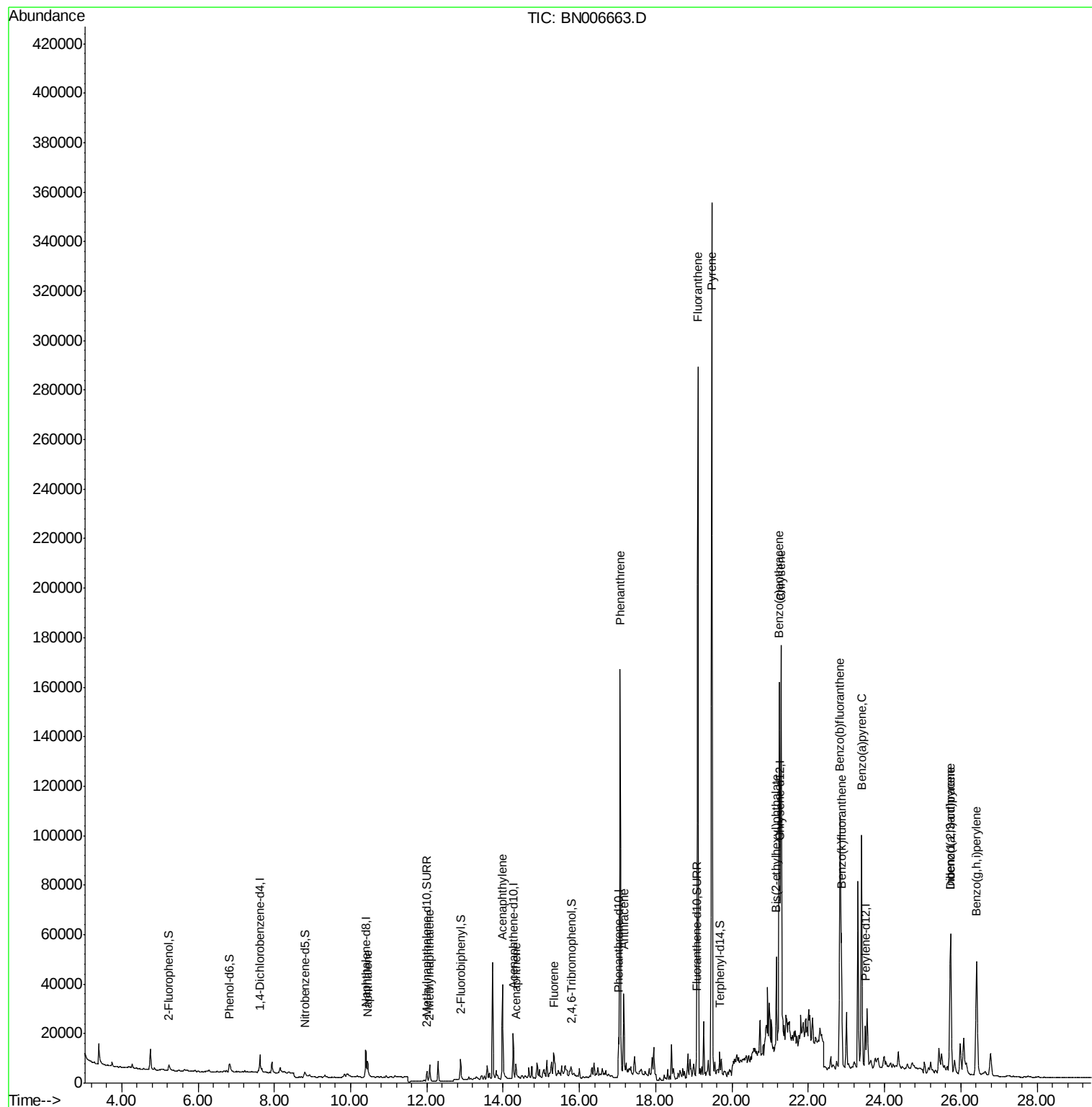
Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN070119\
Data File : BN006663.D
Acq On : 01 Jul 2019 16:29
Operator : HP/JU
Sample : K3504-11
Misc :
ALS Vial : 13 Sample Multiplier: 1

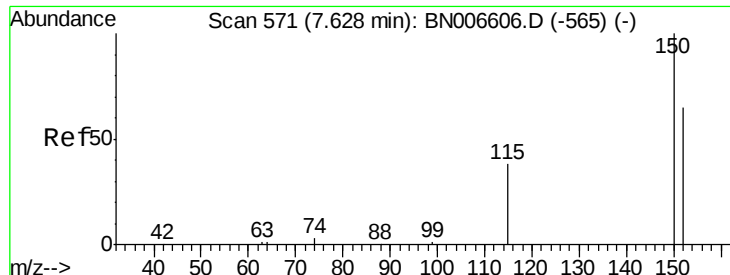
Instrument :
BNA_N
ClientSampleId :
PST-029-SW108-062019

Quant Time: Jul 02 05:34:09 2019
Quant Method : Z:\SVOASRV\HPCHEM1\BNA N\METHODS\8270-SIM-BN062819.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jun 28 13:47:56 2019
Response via : Initial Calibration

Manual Integrations
APPROVED

mohammad
7/2/2019 2:52:23 PM





#1

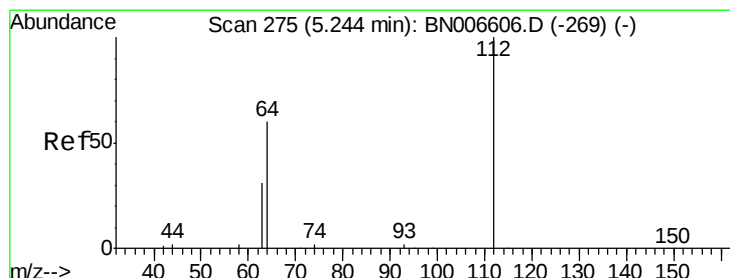
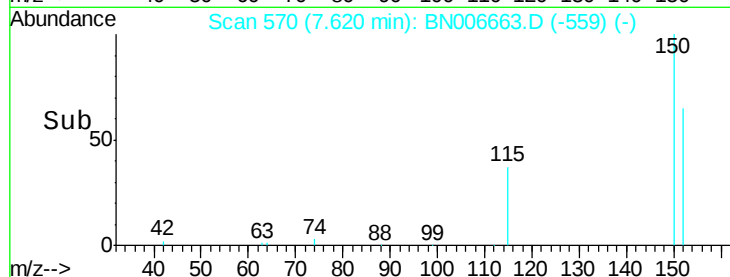
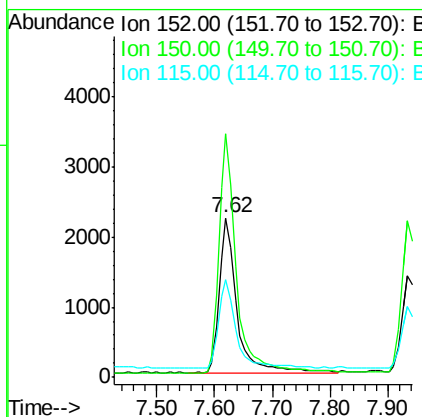
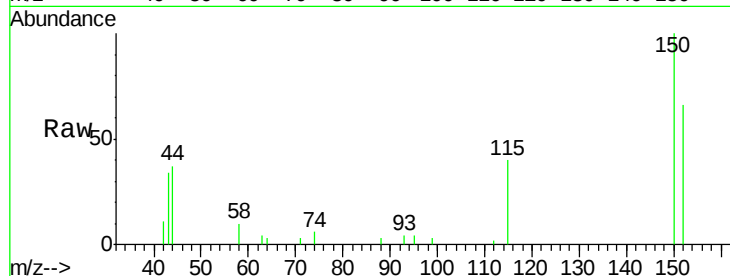
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.62 min Scan# 570
Delta R.T. -0.01 min
Lab File: BN006663.D
Acq: 01 Jul 2019 16:29

Instrument :
BNA_N
ClientSampleId :
PST-029-SW108-062019

Tot Ion	Ratio	Lower	Upper
152	100		
150	152.6	122.2	183.2
115	61.5	50.0	75.0

Manual Integrations
APPROVED

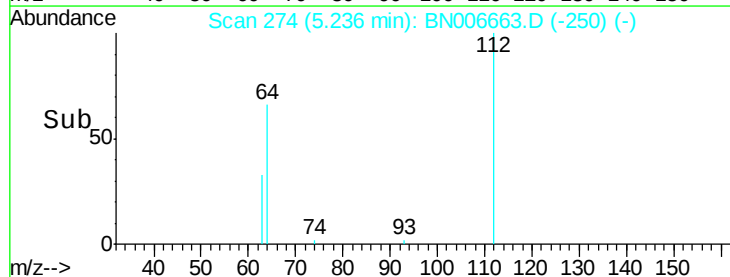
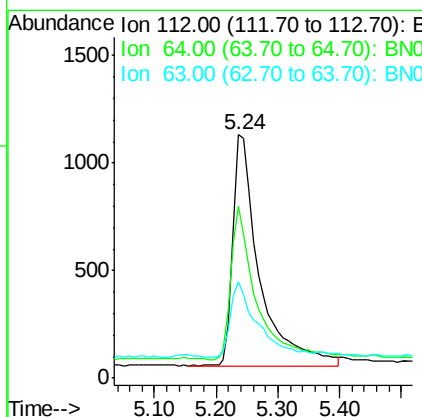
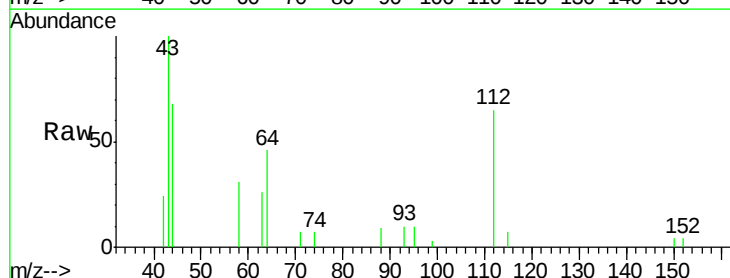
mohammad
7/2/2019 2:52:23 PM

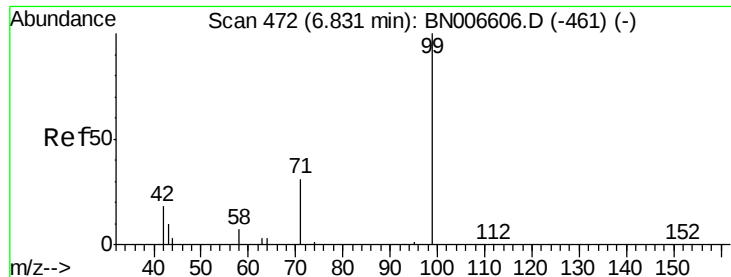


#4

2-Fluorophenol
Concen: 0.279 ng
RT: 5.24 min Scan# 274
Delta R.T. -0.01 min
Lab File: BN006663.D
Acq: 01 Jul 2019 16:29

Tgt Ion	Ratio	Lower	Upper
112	100		
64	63.0	48.9	73.3
63	33.6	24.3	36.5





#5

Phenol-d6

Concen: 0.286 ng

RT: 6.82 min Scan# 471

Delta R.T. -0.01 min

Lab File: BN006663.D

Acq: 01 Jul 2019 16:29

Instrument :

BNA_N

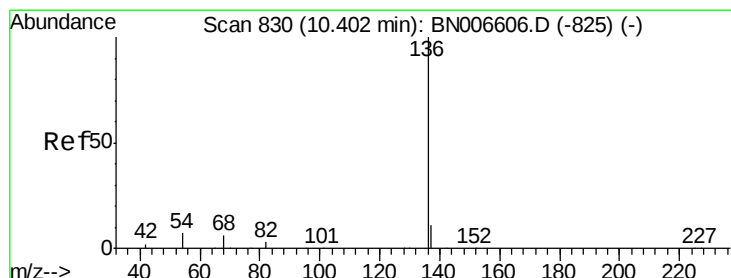
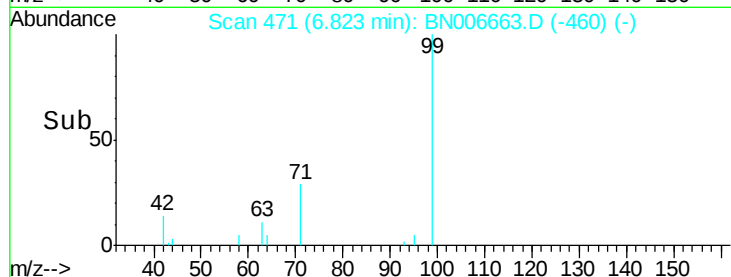
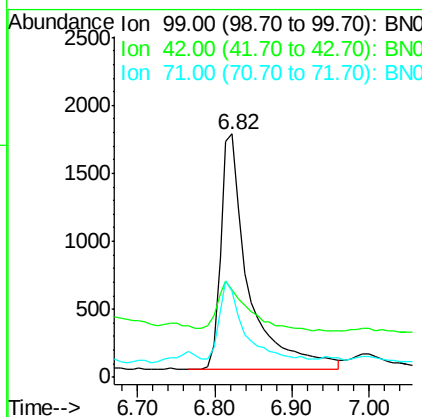
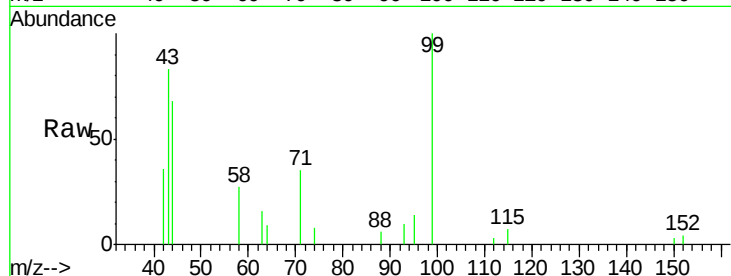
ClientSampleId :

PST-029-SW108-062019

Tot Ion:	99	Resp:	4328
Ion	Ratio	Lower	Upper
99	100		
42	22.0	16.4	24.6
71	29.1	26.6	40.0

Manual Integrations
APPROVED

mohammad
7/2/2019 2:52:23 PM



#7

Naphthalene-d8

Concen: 0.400 ng

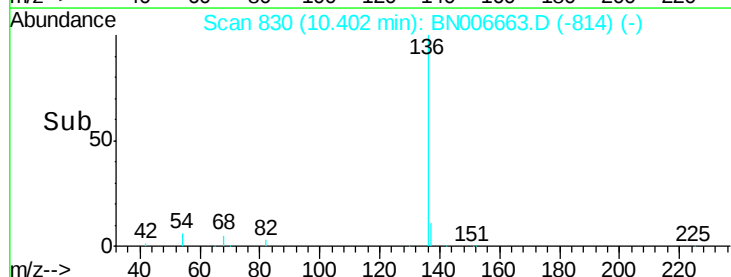
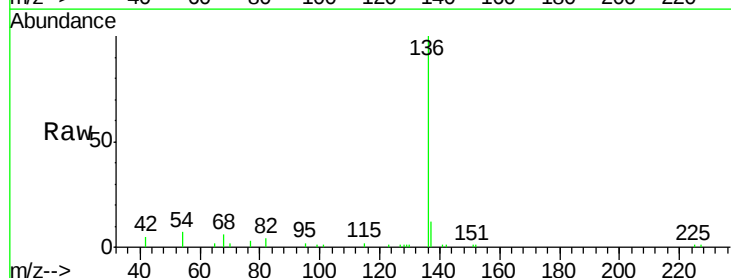
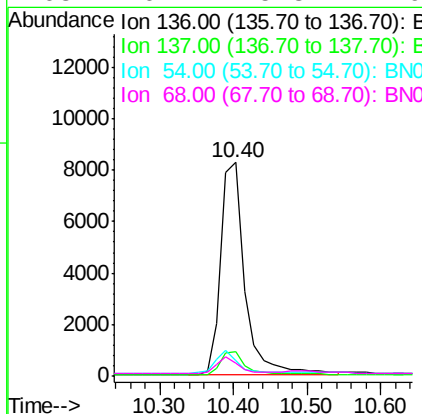
RT: 10.40 min Scan# 830

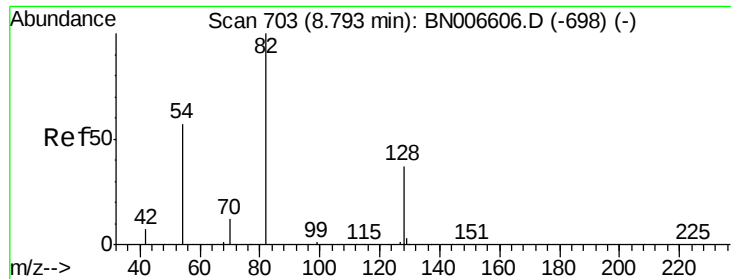
Delta R.T. -0.00 min

Lab File: BN006663.D

Acq: 01 Jul 2019 16:29

Tgt Ion:	136	Resp:	18696
Ion	Ratio	Lower	Upper
136	100		
137	11.6	9.3	13.9
54	7.1	6.7	10.1
68	6.2	5.3	7.9





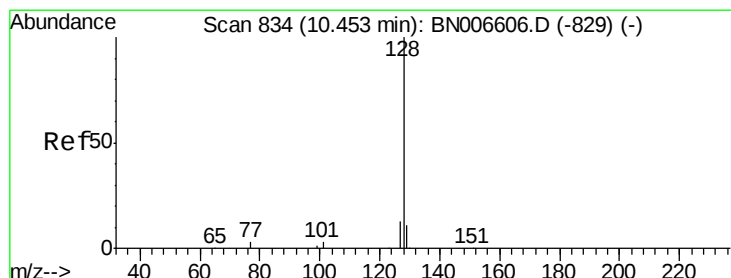
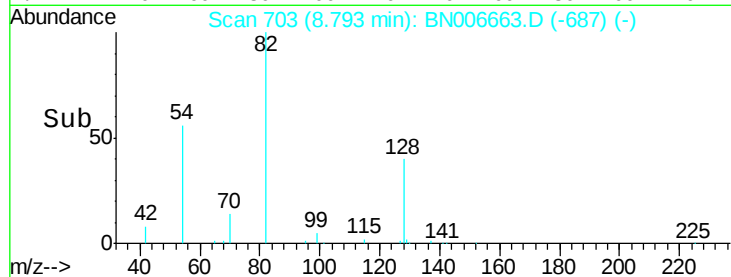
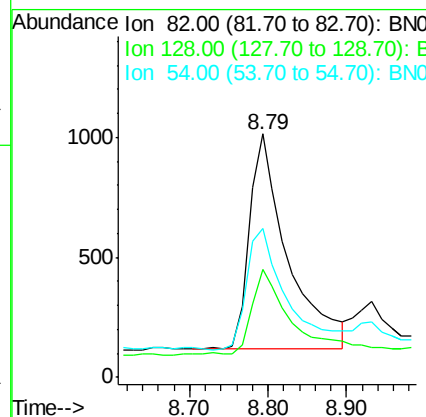
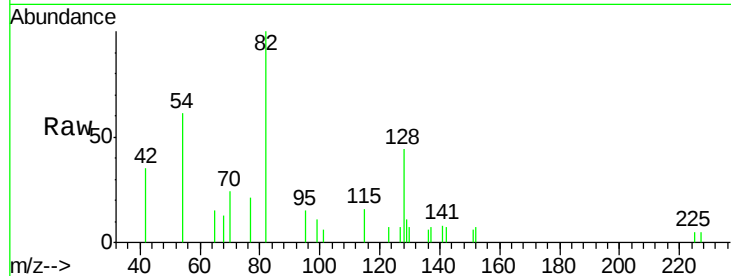
#8
 Nitrobenzene-d5
 Concen: 0.242 ng
 RT: 8.79 min Scan# 703
 Delta R.T. -0.00 min
 Lab File: BN006663.D
 Acq: 01 Jul 2019 16:29

Instrument :
 BNA_N
 ClientSampleId :
 PST-029-SW108-062019

Tot Ion	Ratio	Lower	Upper
82	100		
128	44.1	32.6	49.0
54	61.1	48.2	72.4

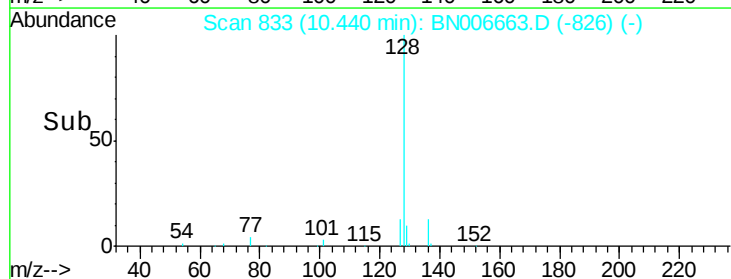
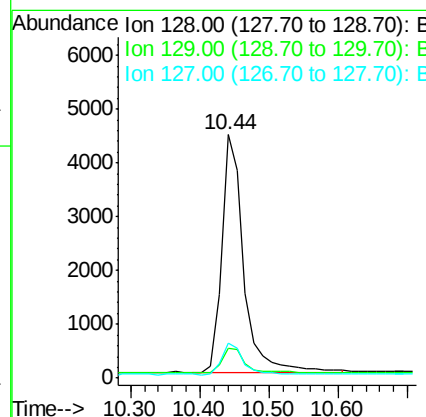
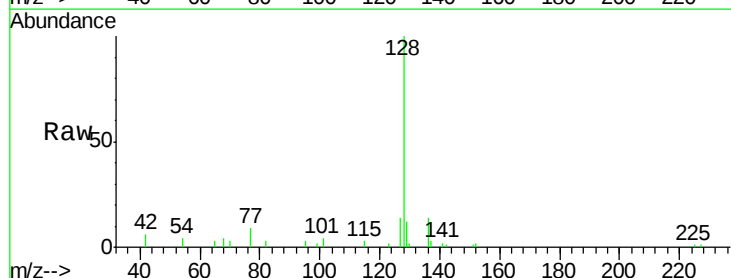
Manual Integrations
 APPROVED

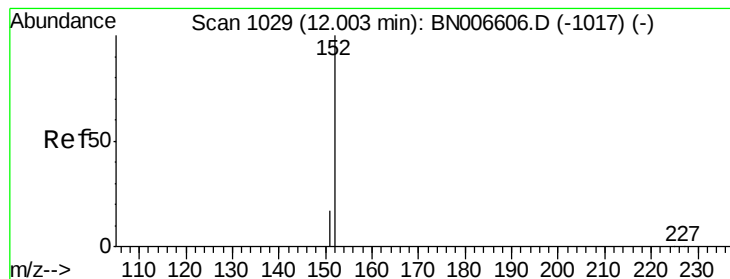
mohammad
 7/2/2019 2:52:23 PM



#9
 Naphthalene
 Concen: 0.198 ng
 RT: 10.44 min Scan# 833
 Delta R.T. -0.01 min
 Lab File: BN006663.D
 Acq: 01 Jul 2019 16:29

Tgt Ion	Ratio	Lower	Upper
128	100		
129	12.5	9.3	13.9
127	14.5	10.8	16.2





#11

2-Methylnaphthalene-d10

Concen: 0.233 ng

RT: 12.00 min Scan# 1028

Delta R.T. -0.00 min

Lab File: BN006663.D

Acq: 01 Jul 2019 16:29

Instrument :

BNA_N

ClientSampleId :

PST-029-SW108-062019

Tot Ion:152 Resp: 6862

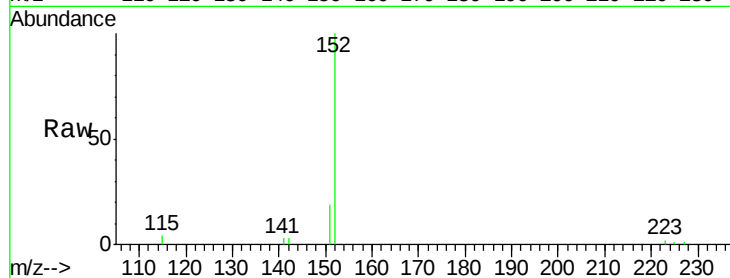
Ion Ratio Lower Upper

152 100

151 19.2 15.0 22.4

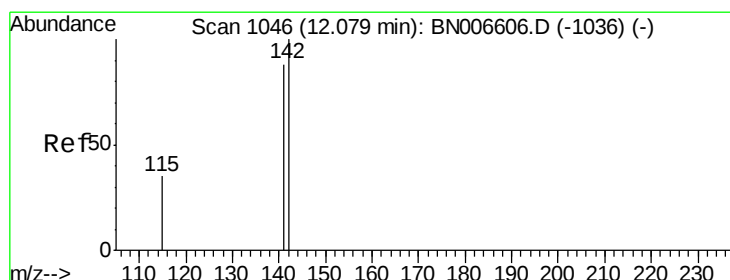
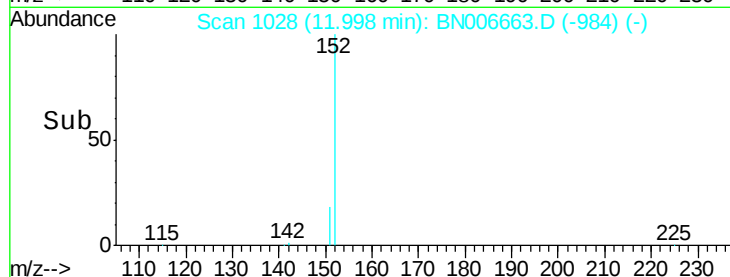
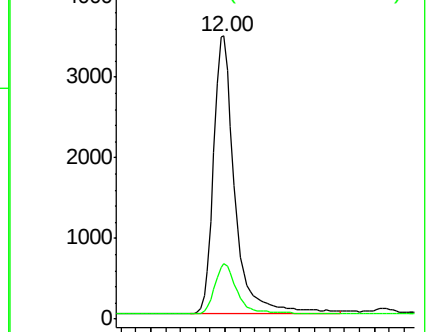
Manual Integrations
APPROVED

mohammad
7/2/2019 2:52:23 PM



Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E



#12

2-Methylnaphthalene

Concen: 0.171 ng

RT: 12.07 min Scan# 1044

Delta R.T. -0.01 min

Lab File: BN006663.D

Acq: 01 Jul 2019 16:29

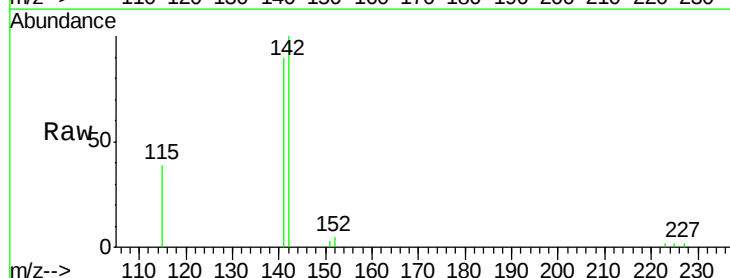
Tgt Ion:142 Resp: 5792

Ion Ratio Lower Upper

142 100

141 89.9 70.2 105.4

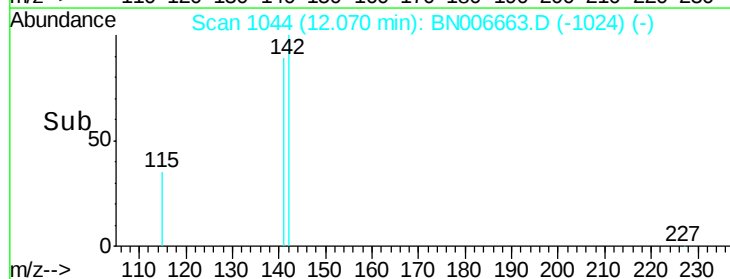
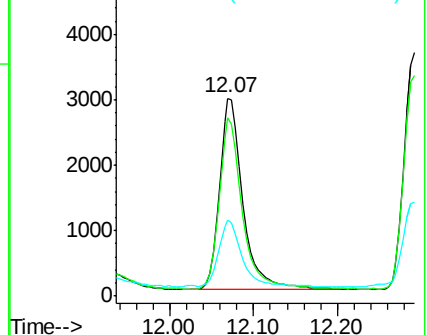
115 38.6 28.5 42.7



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





#13

Acenaphthene-d10

Concen: 0.400 ng

RT: 14.27 min Scan# 1327

Delta R.T. -0.01 min

Lab File: BN006663.D

Acq: 01 Jul 2019 16:29

Instrument :

BNA_N

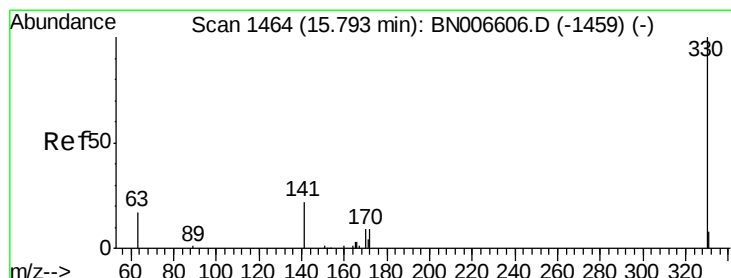
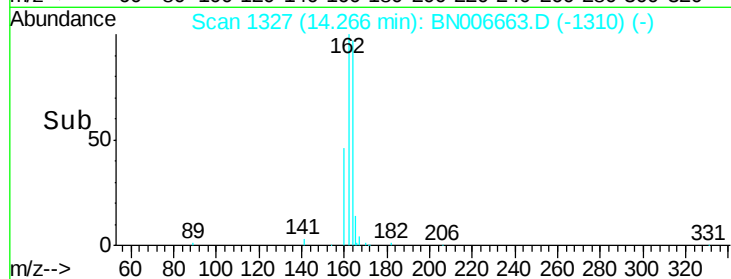
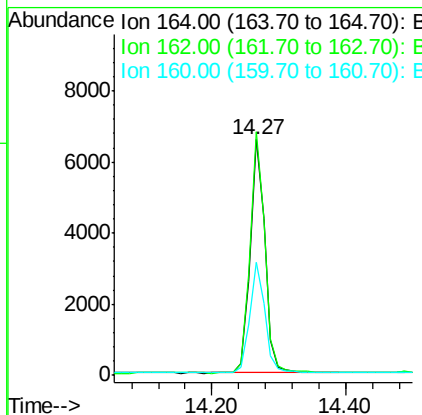
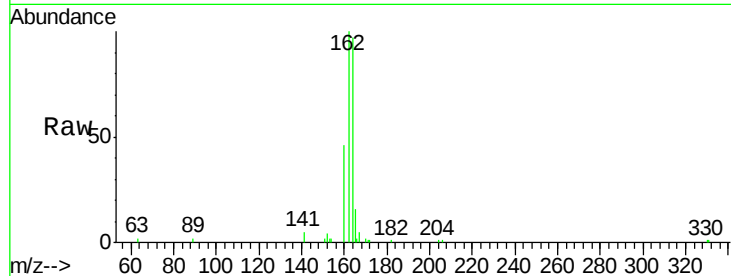
ClientSampleId :

PST-029-SW108-062019

Tot Ion:	164	Resp:	10131
Ion Ratio	Lower	Upper	
164	100		
162	103.3	80.0	120.0
160	47.9	37.0	55.4

Manual Integrations
APPROVED

mohammad
7/2/2019 2:52:23 PM



#14

2,4,6-Tribromophenol

Concen: 0.251 ng

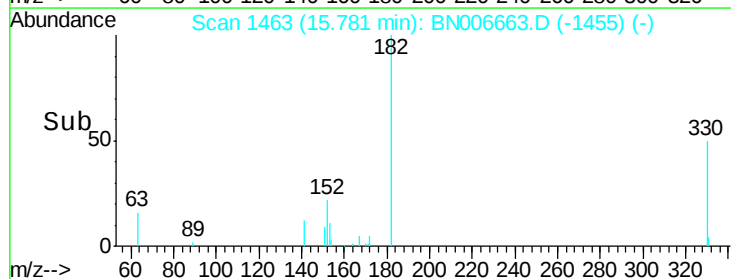
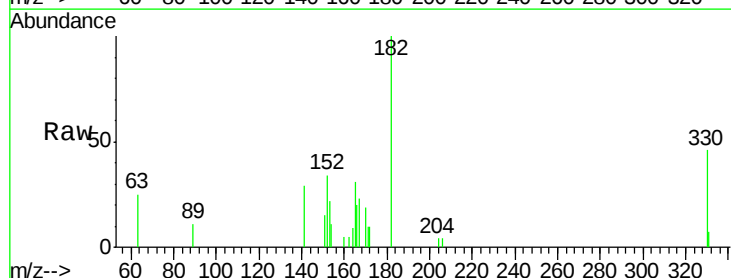
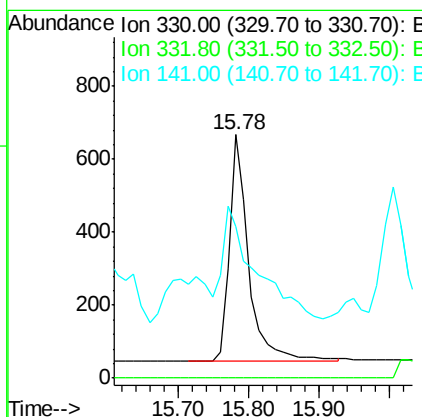
RT: 15.78 min Scan# 1463

Delta R.T. -0.01 min

Lab File: BN006663.D

Acq: 01 Jul 2019 16:29

Tgt Ion:	330	Resp:	1196
Ion Ratio	Lower	Upper	
330	100		
332	0.0	0.0	0.0
141	82.4	26.5	39.7#





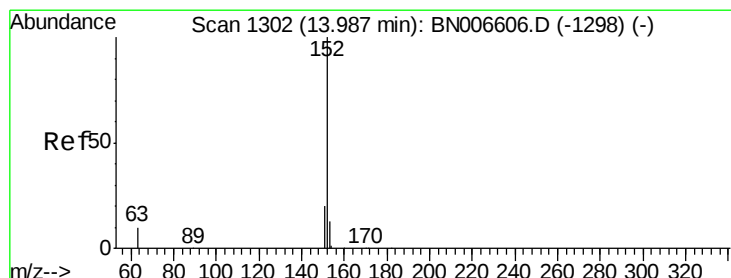
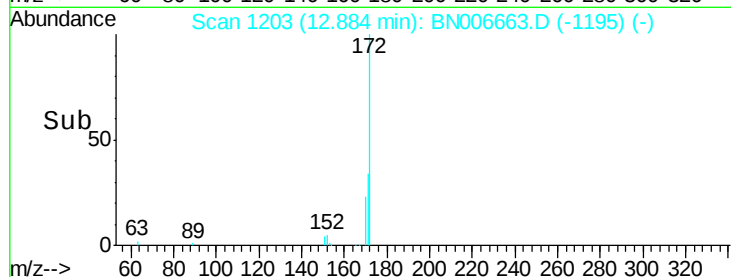
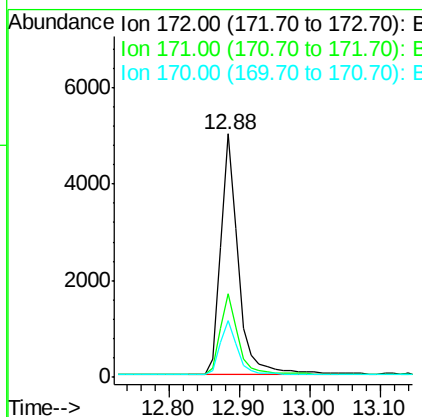
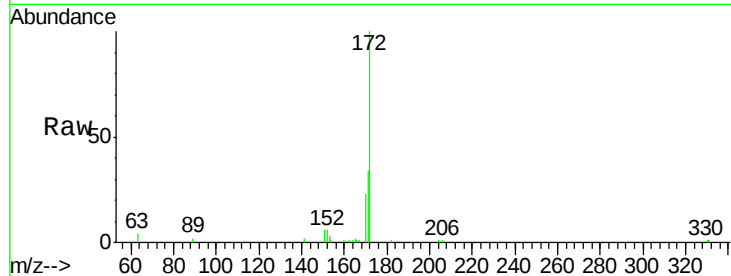
#15
2-Fluorobiphenyl
Concen: 0.238 ng
RT: 12.88 min Scan# 1203
Delta R.T. -0.01 min
Lab File: BN006663.D
Acq: 01 Jul 2019 16:29

Instrument :
BNA_N
ClientSampleId :
PST-029-SW108-062019

Tot Ion	Ratio	Lower	Upper
172	100		
171	34.4	27.0	40.4
170	23.4	17.7	26.5

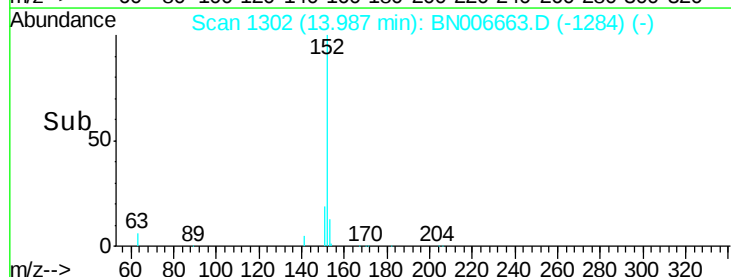
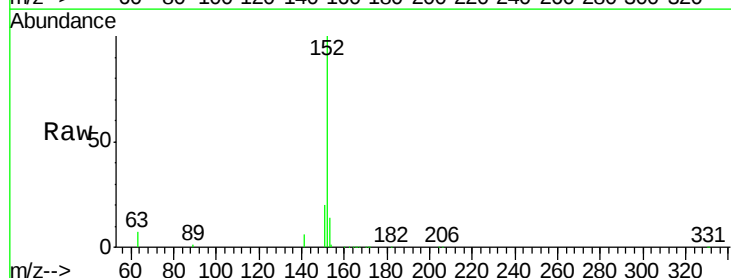
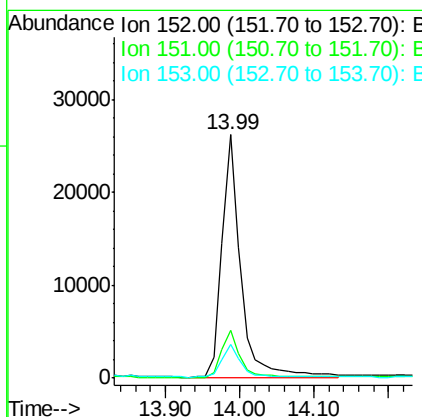
Manual Integrations
APPROVED

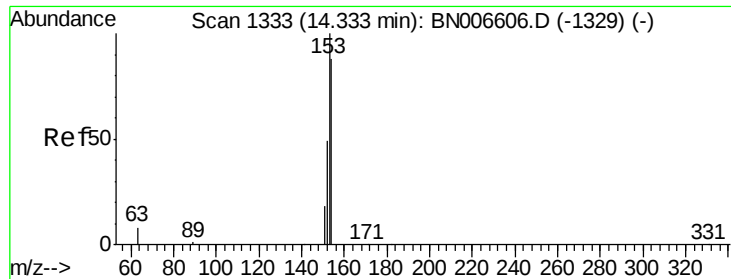
mohammad
7/2/2019 2:52:23 PM



#16
Acenaphthylene
Concen: 0.952 ng
RT: 13.99 min Scan# 1302
Delta R.T. -0.00 min
Lab File: BN006663.D
Acq: 01 Jul 2019 16:29

Tgt Ion	Ratio	Lower	Upper
152	100		
151	19.7	15.6	23.4
153	13.4	10.5	15.7





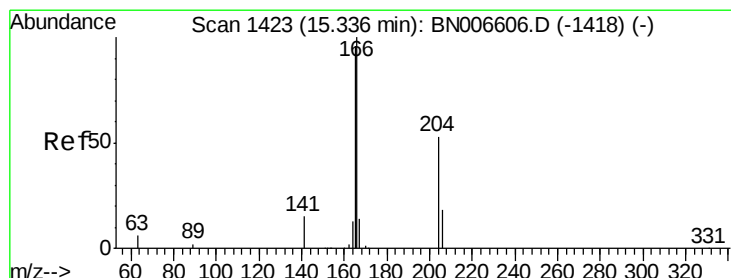
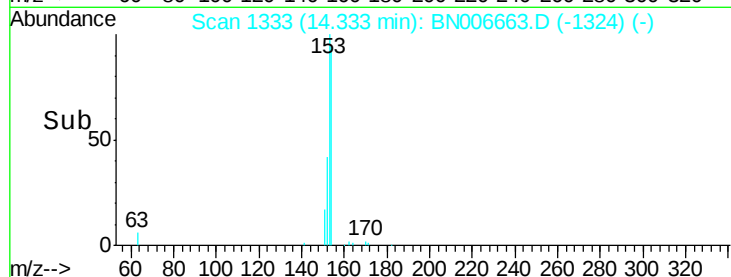
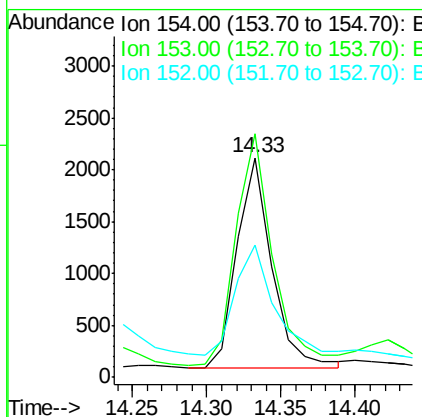
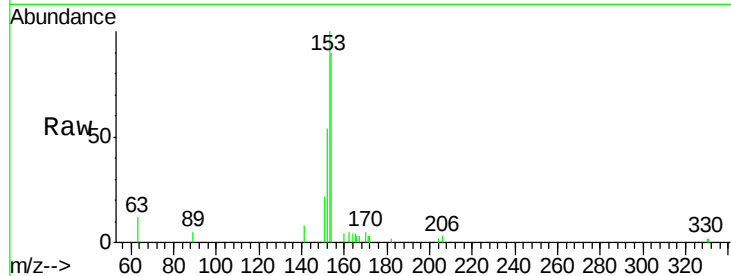
#17
Acenaphthene
Concen: 0.105 ng
RT: 14.33 min Scan# 1333
Delta R.T. -0.00 min
Lab File: BN006663.D
Acq: 01 Jul 2019 16:29

Instrument :
BNA_N
ClientSampleId :
PST-029-SW108-062019

Tot Ion	Ratio	Lower	Upper
154	100		
153	113.4	90.2	135.4
152	66.7	44.2	66.4

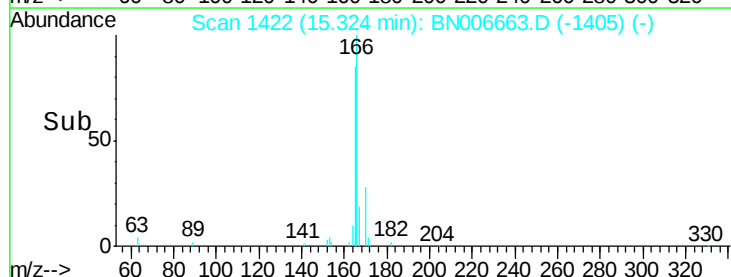
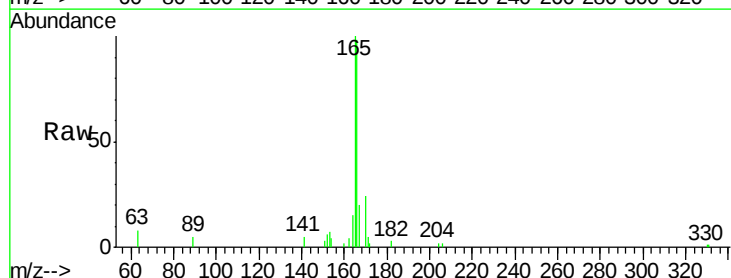
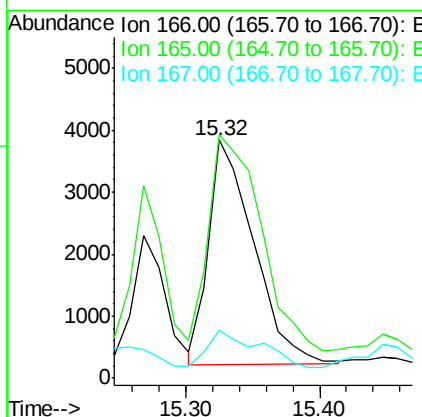
Manual Integrations
APPROVED

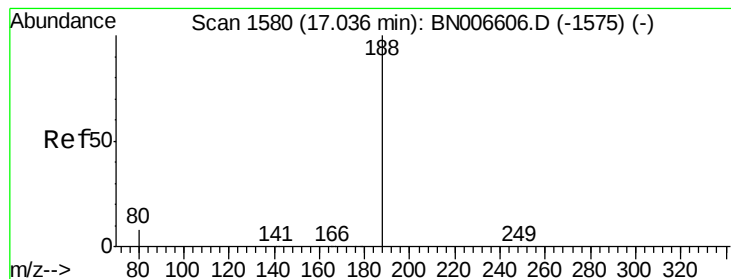
mohammad
7/2/2019 2:52:23 PM



#18
Fluorene
Concen: 0.212 ng
RT: 15.32 min Scan# 1422
Delta R.T. -0.01 min
Lab File: BN006663.D
Acq: 01 Jul 2019 16:29

Tgt Ion	Ratio	Lower	Upper
166	100		
165	113.9	78.4	117.6
167	19.1	10.8	16.2





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.03 min Scan# 1579

Delta R.T. -0.01 min

Lab File: BN006663.D

Acq: 01 Jul 2019 16:29

Instrument :

BNA_N

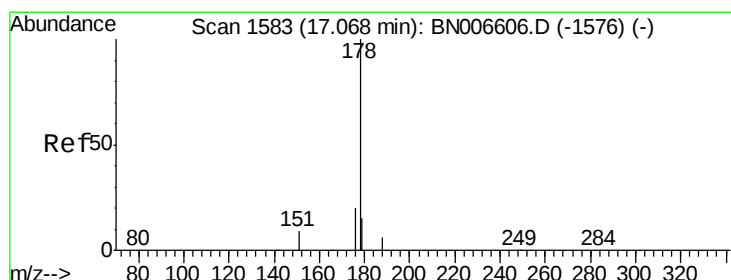
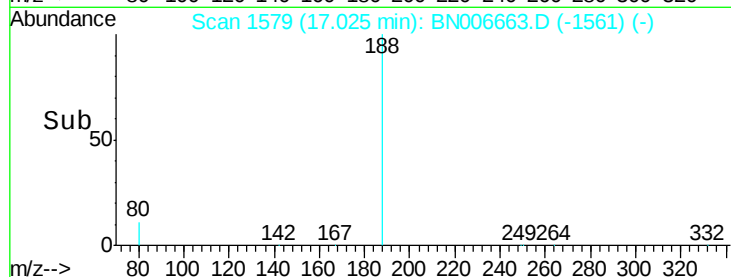
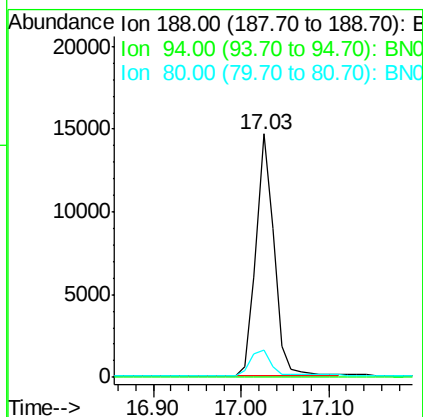
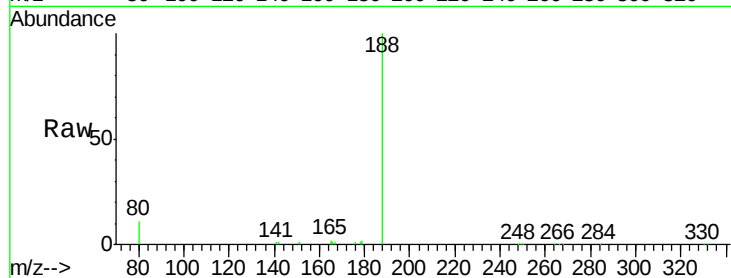
ClientSampleId :

PST-029-SW108-062019

Tot Ion:	188	Resp:	21117
Ion Ratio	Lower	Upper	
188	100		
94	0.0	0.0	0.0
80	11.5	7.1	10.7#

Manual Integrations
APPROVED

mohammad
7/2/2019 2:52:23 PM



#23

Phenanthrene

Concen: 2.832 ng

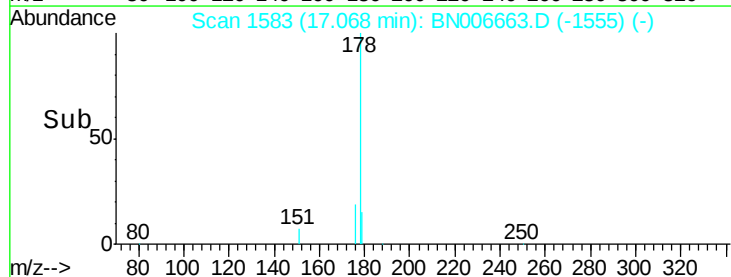
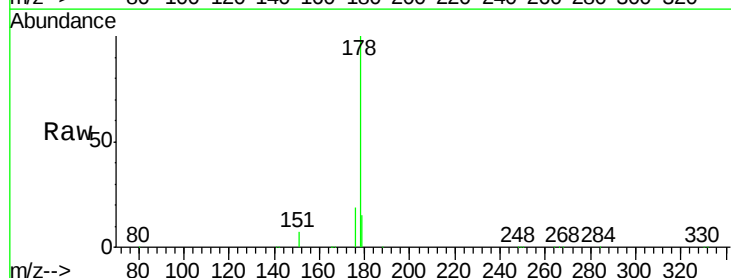
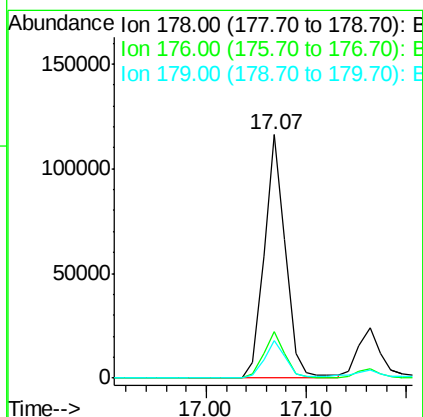
RT: 17.07 min Scan# 1583

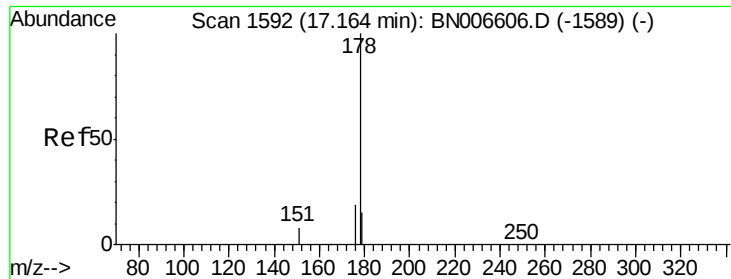
Delta R.T. -0.00 min

Lab File: BN006663.D

Acq: 01 Jul 2019 16:29

Tgt Ion:	178	Resp:	170059
Ion Ratio	Lower	Upper	
178	100		
176	19.0	15.3	22.9
179	15.4	12.2	18.4





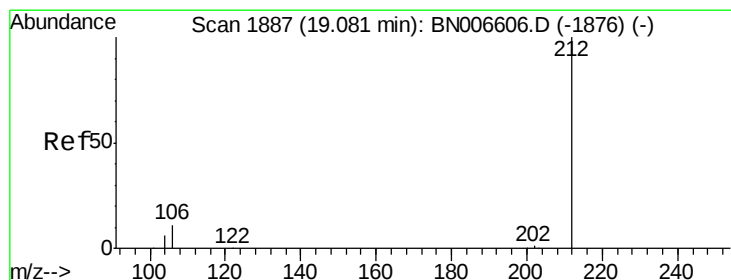
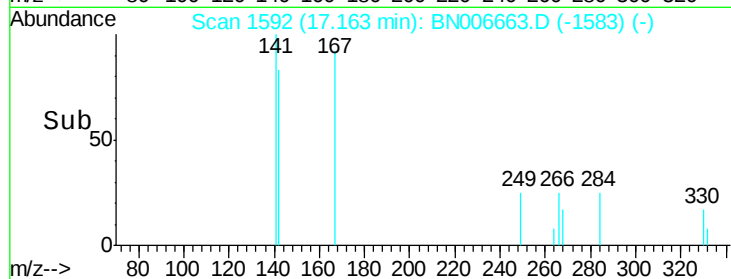
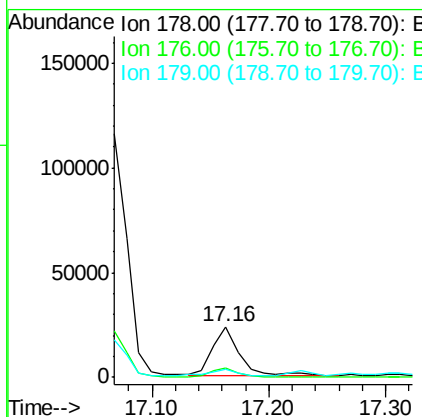
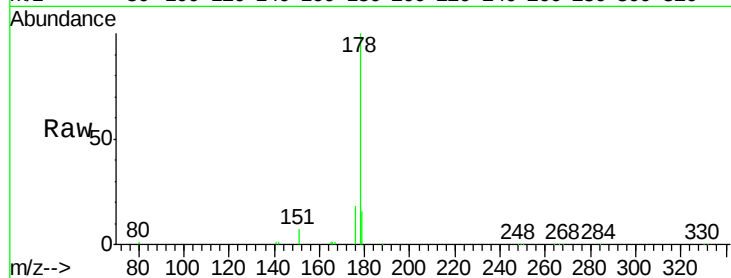
#24
 Anthracene
 Concen: 0.707 ng
 RT: 17.16 min Scan# 1592
 Delta R.T. -0.00 min
 Lab File: BN006663.D
 Acq: 01 Jul 2019 16:29

Instrument :
 BNA_N
 ClientSampleId :
 PST-029-SW108-062019

Tot Ion	Ratio	Lower	Upper
178	100		
176	18.3	15.0	22.4
179	15.0	12.2	18.2

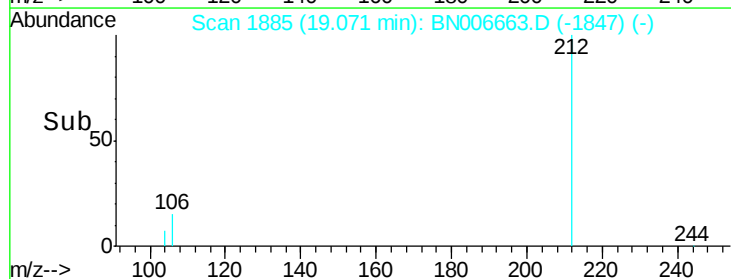
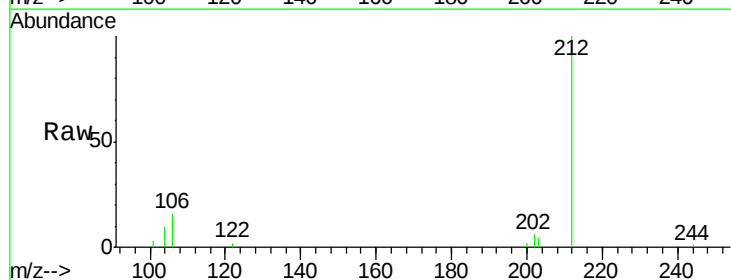
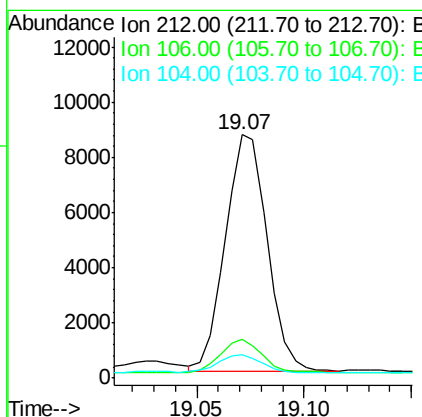
Manual Integrations
 APPROVED

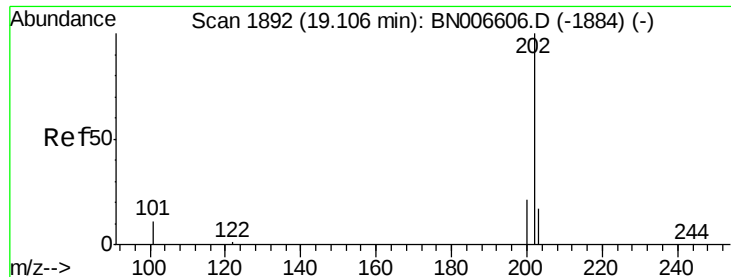
mohammad
 7/2/2019 2:52:23 PM



#25
 Fluoranthene-d10
 Concen: 0.186 ng
 RT: 19.07 min Scan# 1885
 Delta R.T. -0.01 min
 Lab File: BN006663.D
 Acq: 01 Jul 2019 16:29

Tgt Ion	Ratio	Lower	Upper
212	100		
106	14.4	10.6	15.8
104	8.4	5.8	8.6





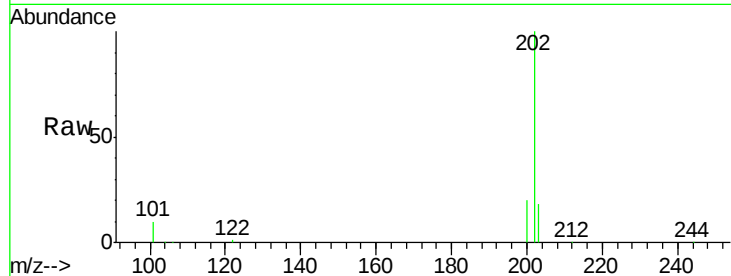
#26
Fluoranthene
Concen: 3.505 ng
RT: 19.11 min Scan# 1892
Delta R.T. -0.00 min
Lab File: BN006663.D
Acq: 01 Jul 2019 16:29

Instrument :
BNA_N
ClientSampleId :
PST-029-SW108-062019

Tot Ion	Ratio	Resp	Lower	Upper
202	100	255769		
101	11.5		8.9	13.3
203	17.8		13.6	20.4

Manual Integrations
APPROVED

mohammad
7/2/2019 2:52:23 PM

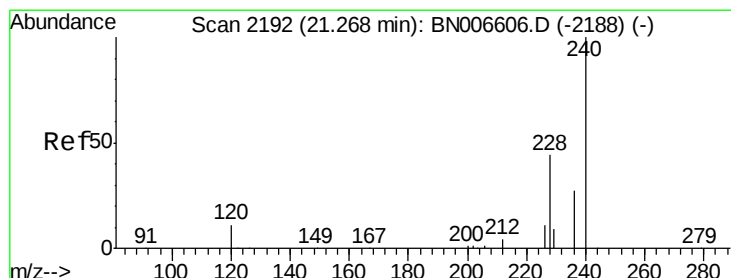
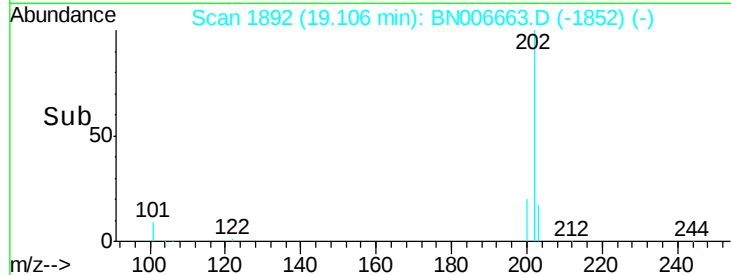
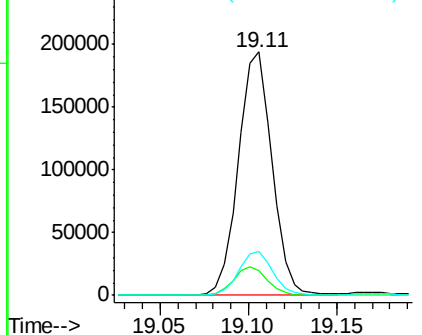


Abundance

Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E



#27
Chrysene-d12
Concen: 0.400 ng
RT: 21.26 min Scan# 2191
Delta R.T. -0.01 min
Lab File: BN006663.D
Acq: 01 Jul 2019 16:29

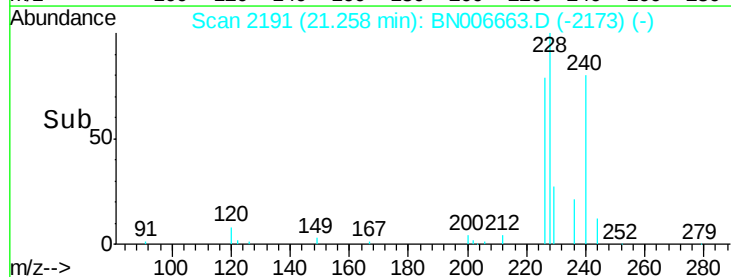
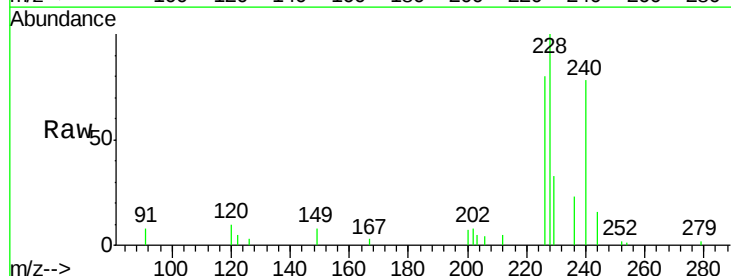
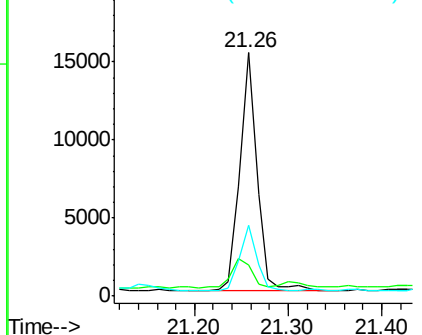
Tgt Ion	Ratio	Resp	Lower	Upper
240	100	19512		
120	12.6		9.9	14.9
236	28.9		22.2	33.4

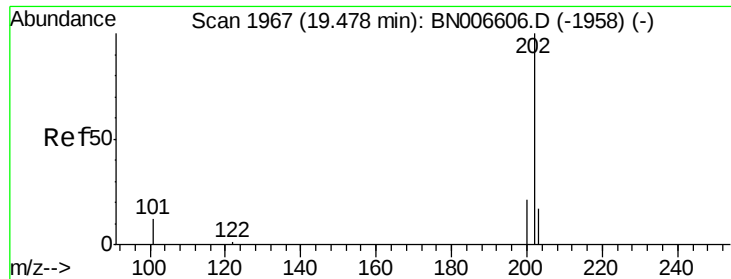
Abundance

Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





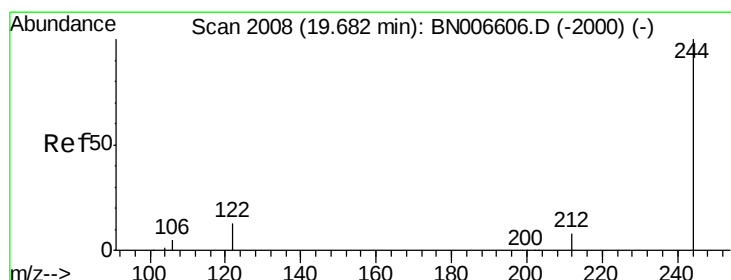
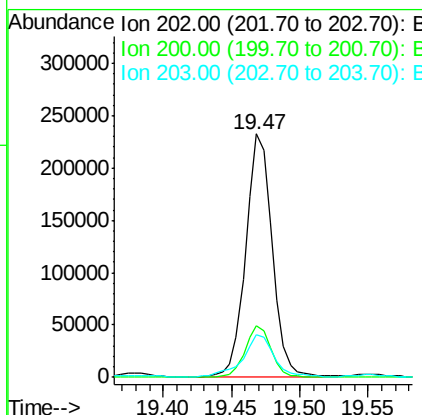
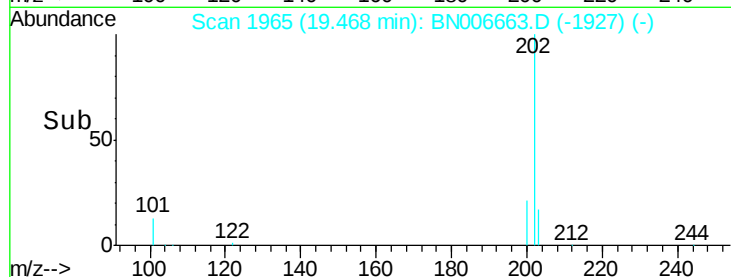
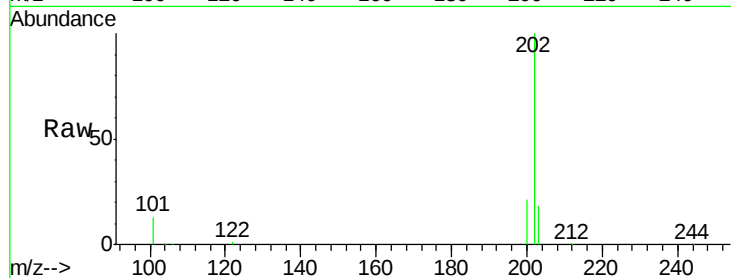
#28
Pvrene
Concen: 4.559 ng
RT: 19.47 min Scan# 1965
Delta R.T. -0.01 min
Lab File: BN006663.D
Acq: 01 Jul 2019 16:29

Instrument :
BNA_N
ClientSampleId :
PST-029-SW108-062019

Tot Ion	Ratio	Resp	Lower	Upper
202	100			
200	20.9	16.7	25.1	
203	20.3	14.1	21.1	

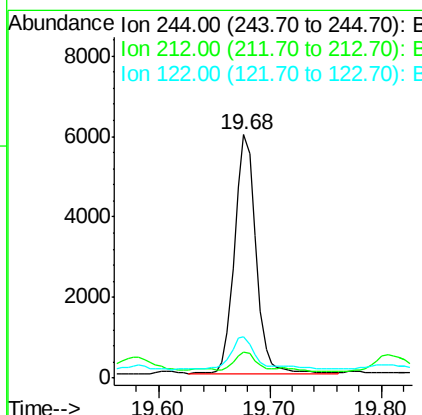
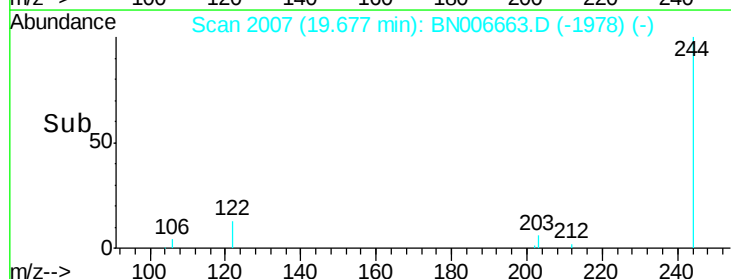
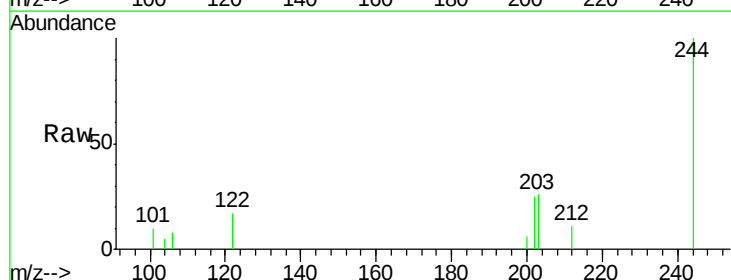
Manual Integrations
APPROVED

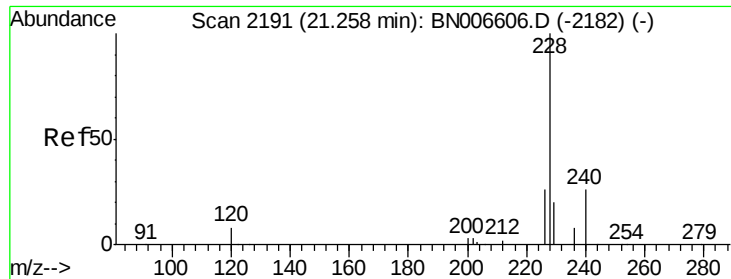
mohammad
7/2/2019 2:52:23 PM



#29
Terphenyl-d14
Concen: 0.192 ng
RT: 19.68 min Scan# 2007
Delta R.T. -0.01 min
Lab File: BN006663.D
Acq: 01 Jul 2019 16:29

Tgt Ion	Ratio	Resp	Lower	Upper
244	100			
212	10.7	6.7	10.1#	
122	16.9	11.0	16.6#	





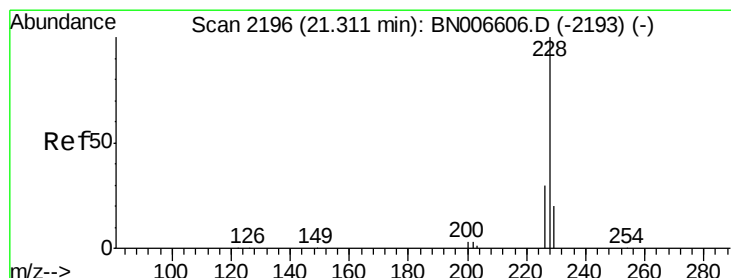
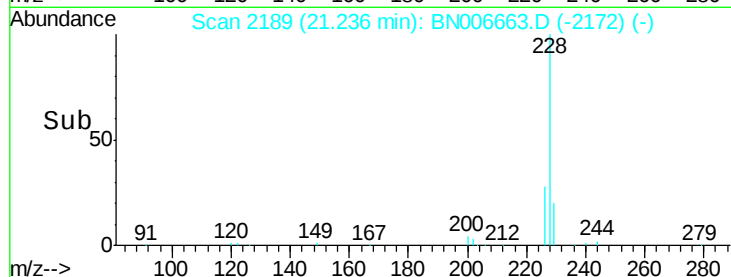
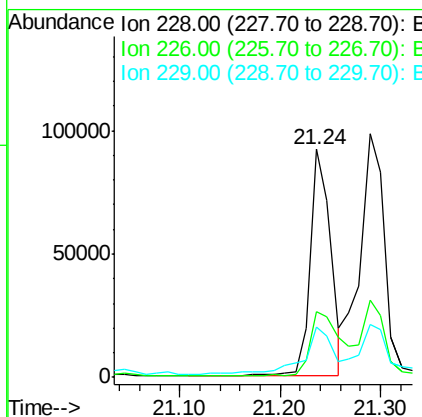
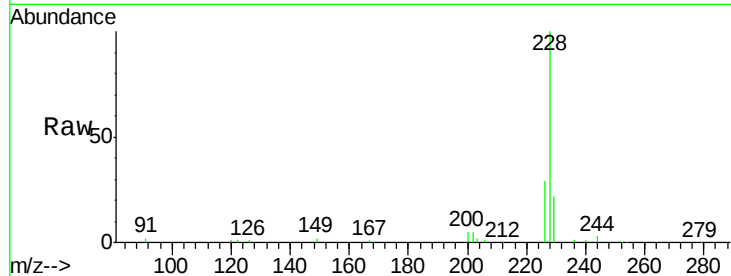
#30
Benzo(a)anthracene
Concen: 2.063 ng
RT: 21.24 min Scan# 2189
Delta R.T. -0.02 min
Lab File: BN006663.D
Acq: 01 Jul 2019 16:29

Instrument :
BNA_N
ClientSampleId :
PST-029-SW108-062019

Tot Ion	Ratio	Lower	Upper
228	100		
226	29.1	21.2	31.8
229	21.8	16.1	24.1

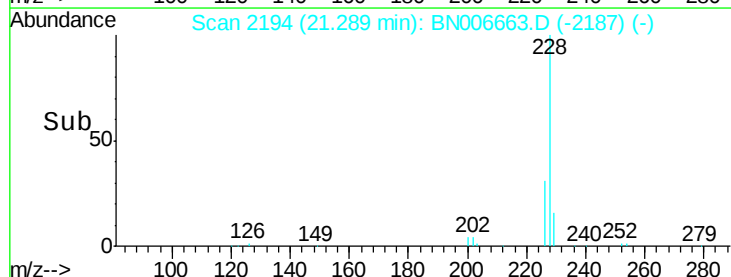
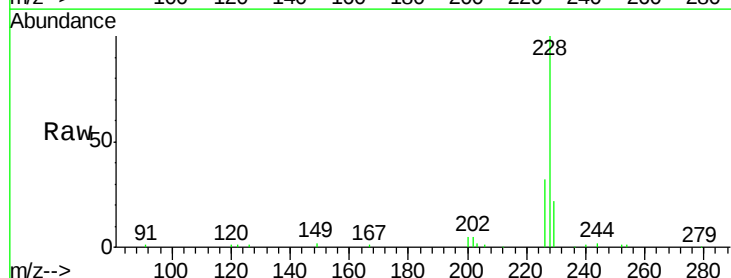
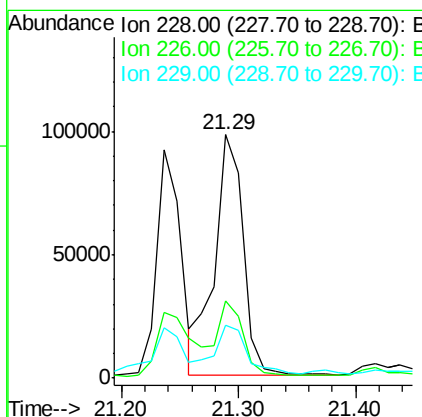
Manual Integrations
APPROVED

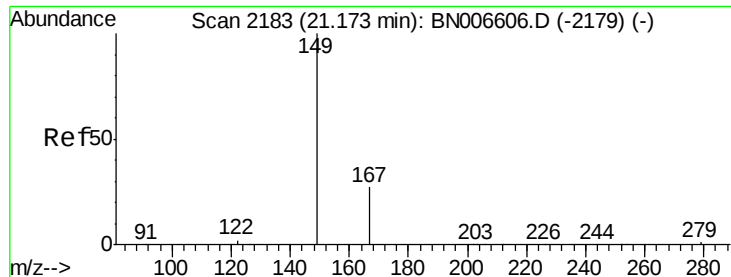
mohammad
7/2/2019 2:52:23 PM



#31
Chrysene
Concen: 2.420 ng
RT: 21.29 min Scan# 2194
Delta R.T. -0.02 min
Lab File: BN006663.D
Acq: 01 Jul 2019 16:29

Tgt Ion	Ratio	Lower	Upper
228	100		
226	31.9	23.8	35.6
229	21.7	15.9	23.9





#32

Bis(2-ethylhexyl)phthalate

Concen: 0.833 ng

RT: 21.16 min Scan# 2182

Delta R.T. -0.01 min

Lab File: BN006663.D

Acq: 01 Jul 2019 16:29

Instrument :

BNA_N

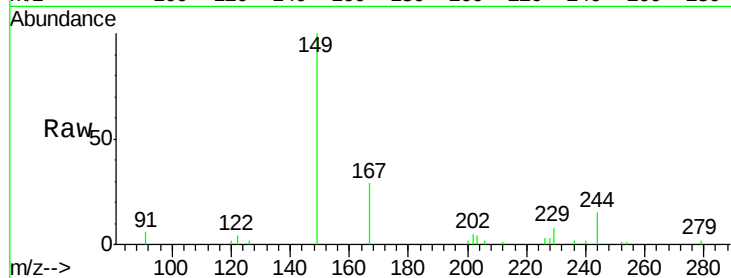
ClientSampleId :

PST-029-SW108-062019

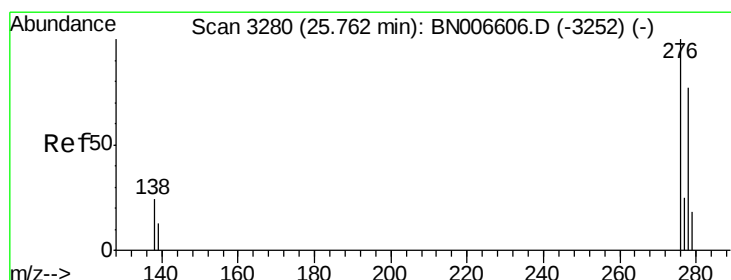
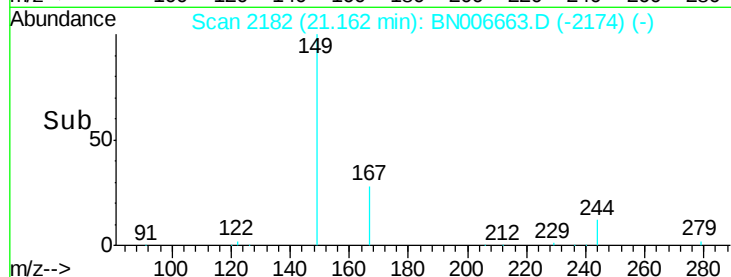
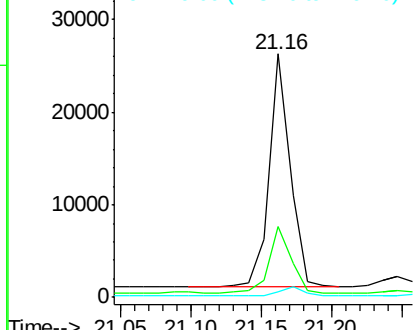
Tot Ion:	149	Resp:	26739
Ion Ratio	Lower	Upper	
149	100		
167	28.9	22.9	34.3
279	4.0	3.3	4.9

Manual Integrations
APPROVED

mohammad
7/2/2019 2:52:23 PM



Abundance Ion 149.00 (148.70 to 149.70): E
Ion 167.00 (166.70 to 167.70): E
Ion 279.00 (278.70 to 279.70): E



#33

Indeno(1,2,3-cd)pyrene

Concen: 1.219 ng

RT: 25.73 min Scan# 3271

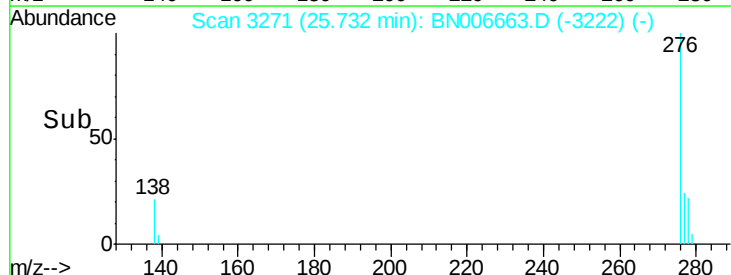
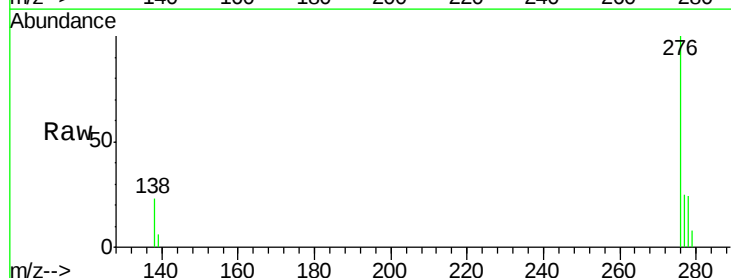
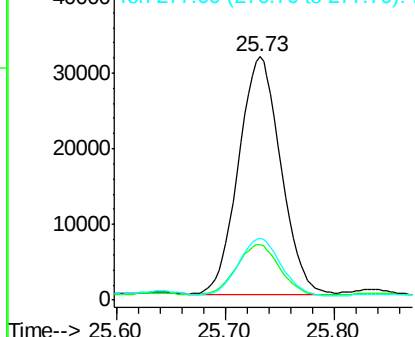
Delta R.T. -0.03 min

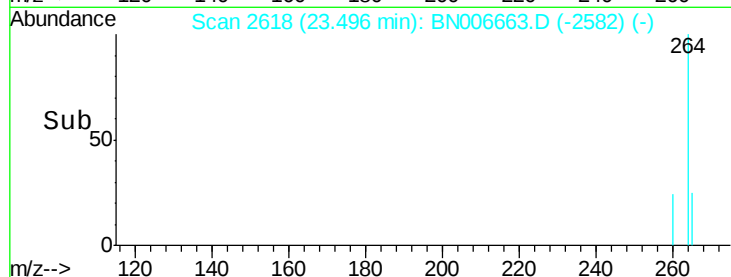
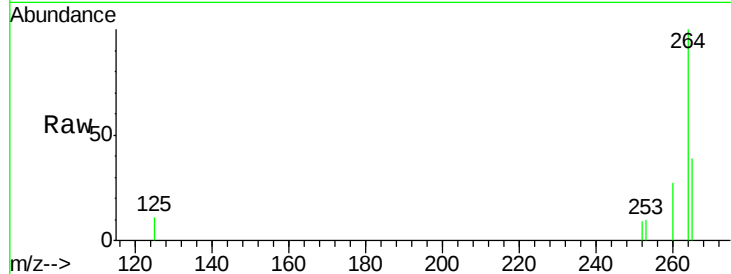
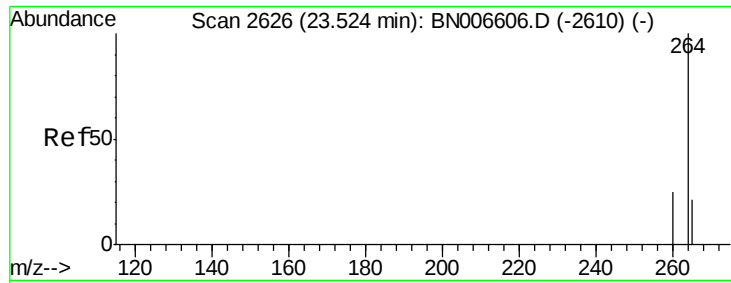
Lab File: BN006663.D

Acq: 01 Jul 2019 16:29

Tgt Ion:	276	Resp:	84820
Ion Ratio	Lower	Upper	
276	100		
138	21.6	19.3	28.9
277	24.2	19.9	29.9

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





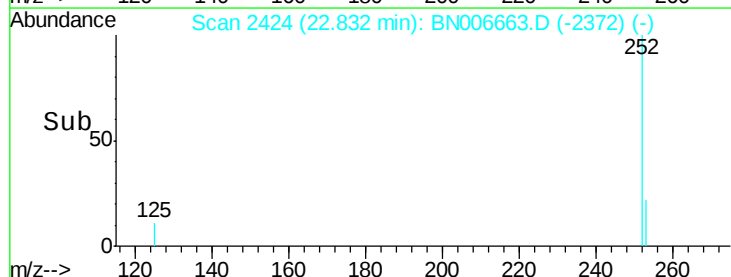
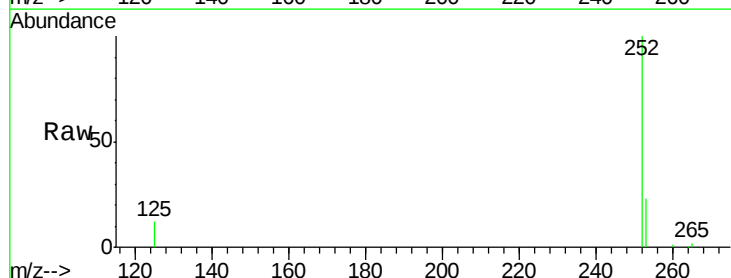
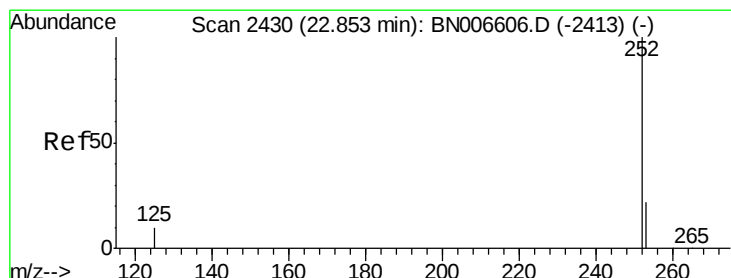
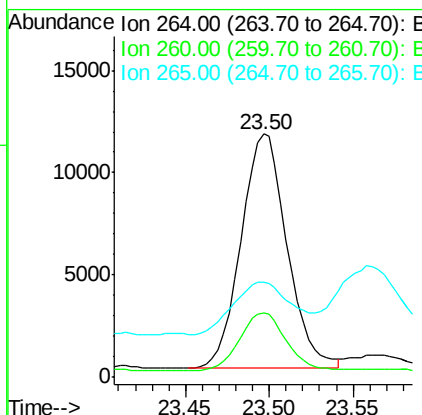
#34
 Pervlene-d12
 Concen: 0.400 ng
 RT: 23.50 min Scan# 2618
 Delta R.T. -0.03 min
 Lab File: BN006663.D
 Acq: 01 Jul 2019 16:29

Tot Ion	Ratio	Lower	Upper
264	100		
260	26.7	20.2	30.2
265	38.9	23.3	34.9

Instrument :
 BNA_N
 ClientSampleId :
 PST-029-SW108-062019

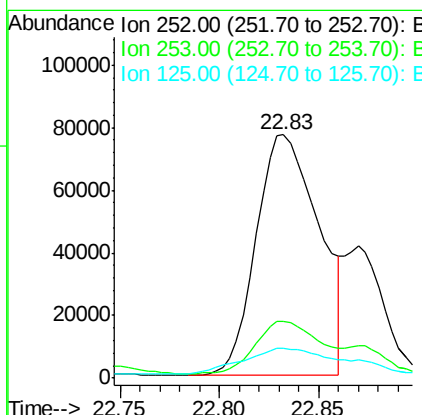
Manual Integrations
 APPROVED

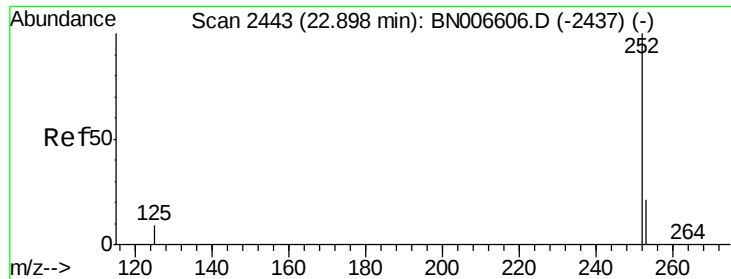
mohammad
 7/2/2019 2:52:23 PM



#35
 Benzo(b)fluoranthene
 Concen: 2.257 ng
 RT: 22.83 min Scan# 2424
 Delta R.T. -0.02 min
 Lab File: BN006663.D
 Acq: 01 Jul 2019 16:29

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.4	18.4	27.6
125	12.2	8.7	13.1





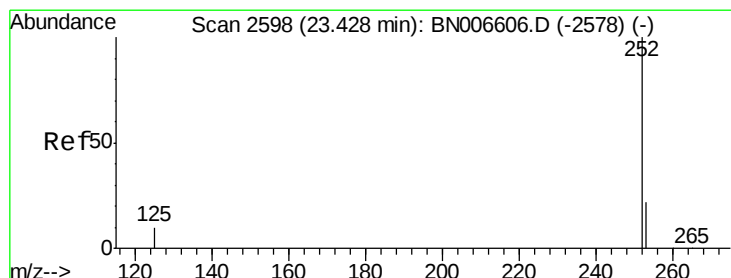
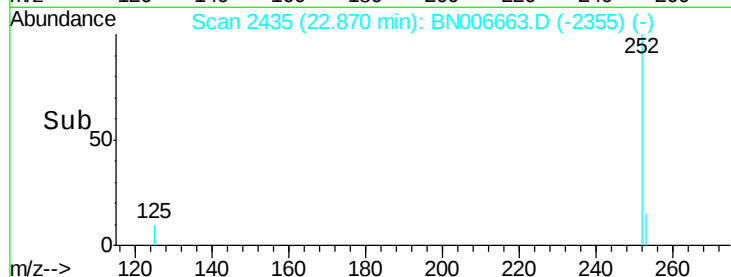
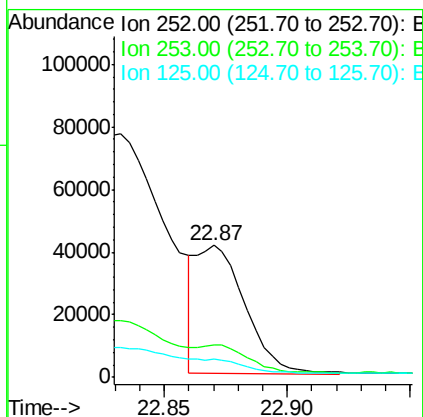
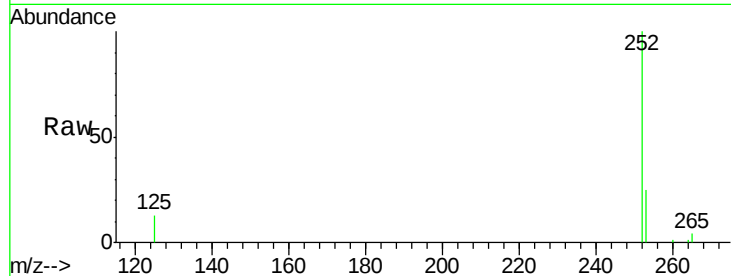
#36
Benzo(k)fluoranthene
Concen: 0.711 ng m
RT: 22.87 min Scan# 2435
Delta R.T. -0.03 min
Lab File: BN006663.D
Acq: 01 Jul 2019 16:29

Instrument :
BNA_N
ClientSampleId :
PST-029-SW108-062019

Tot Ion	Ratio	Lower	Upper
252	100		
253	24.8	18.3	27.5
125	13.5	8.4	12.6

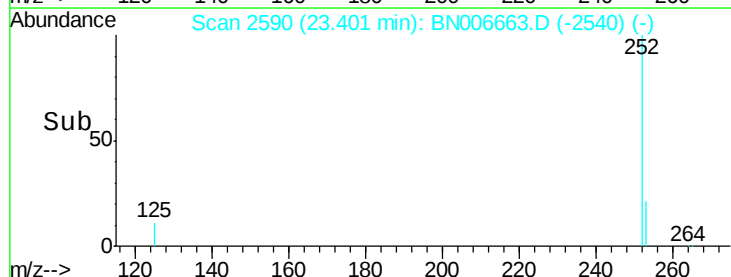
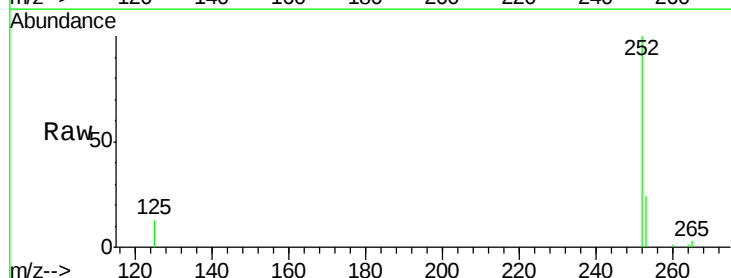
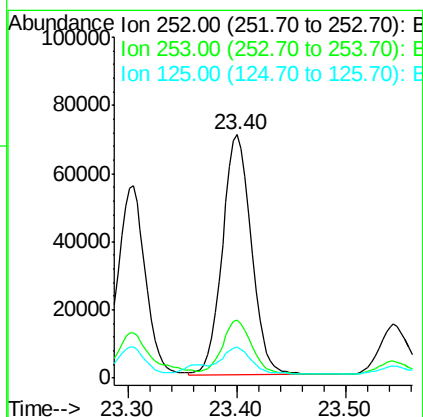
Manual Integrations
APPROVED

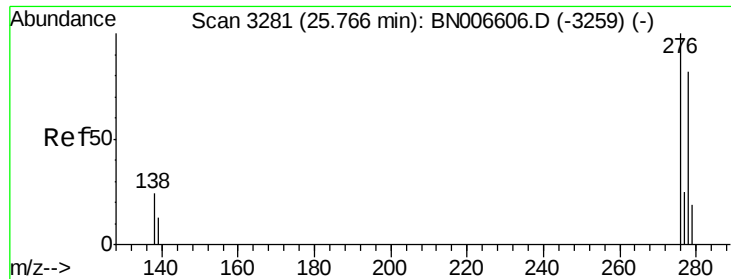
mohammad
7/2/2019 2:52:23 PM



#37
Benzo(a)pyrene
Concen: 1.850 ng
RT: 23.40 min Scan# 2590
Delta R.T. -0.03 min
Lab File: BN006663.D
Acq: 01 Jul 2019 16:29

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.8	18.8	28.2
125	12.6	9.4	14.2





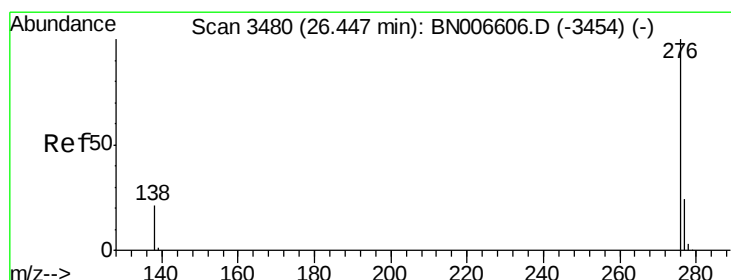
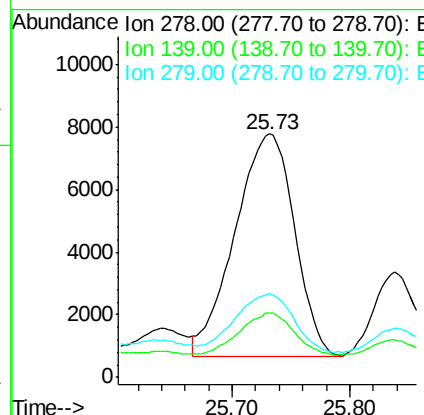
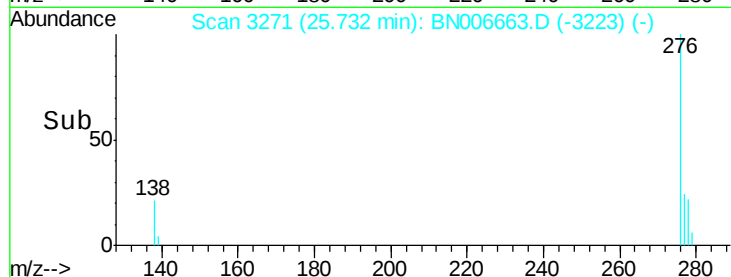
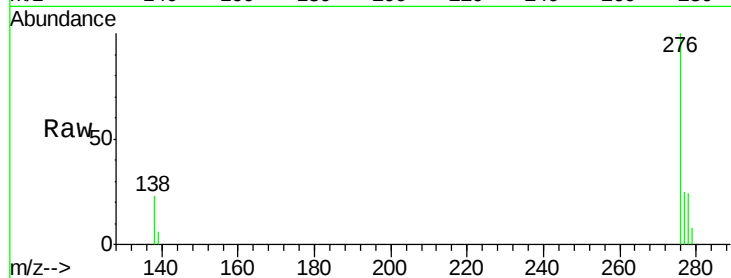
#38
Dibenzo(a,h)anthracene
Concen: 0.406 ng
RT: 25.73 min Scan# 3271
Delta R.T. -0.03 min
Lab File: BN006663.D
Acq: 01 Jul 2019 16:29

Instrument :
BNA_N
ClientSampleId :
PST-029-SW108-062019

Tot Ion	Ratio	Lower	Upper
278	100		
139	26.6	13.5	20.3#
279	34.3	19.4	29.2#

Manual Integrations
APPROVED

mohammad
7/2/2019 2:52:23 PM



#39
Benzo(g,h,i)perylene
Concen: 1.490 ng
RT: 26.42 min Scan# 3471
Delta R.T. -0.03 min
Lab File: BN006663.D
Acq: 01 Jul 2019 16:29

Tgt Ion	Ratio	Lower	Upper
276	100		
277	24.8	19.6	29.4
138	23.0	17.7	26.5

