

Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN092519\
 Data File : BN007873.D
 Acq On : 26 Sep 2019 03:54
 Operator : JU
 Sample : K4994-09
 Misc :
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 PST-SW117-091919-2

Manual Integrations
 APPROVED

mohammad
 9/27/2019 8:28:24 AM

Quant Time: Sep 26 09:09:35 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	8282	0.40	ng	0.00
7) Naphthalene-d8	10.46	136	31827	0.40	ng	-0.01
13) Acenaphthene-d10	14.31	164	19384	0.40	ng	-0.01
19) Phenanthrene-d10	17.06	188	40477	0.40	ng	-0.01
27) Chrysene-d12	21.26	240	44068	0.40	ng	-0.01
34) Perylene-d12	23.47	264	51722	0.40	ng	-0.02
System Monitoring Compounds						
4) 2-Fluorophenol	5.31	112	6412	0.22	ng	0.00
5) Phenol-d6	6.87	99	8486	0.24	ng	0.00
8) Nitrobenzene-d5	8.83	82	7519	0.27	ng	0.00
11) 2-Methylnaphthalene-d10	12.05	152	13335	0.25	ng	-0.01
14) 2,4,6-Tribromophenol	15.81	330	2558	0.24	ng	-0.01
15) 2-Fluorobiphenyl	12.93	172	17942	0.22	ng	-0.01
25) Fluoranthene-d10	19.09	212	31832	0.23	ng	-0.01
29) Terphenyl-d14	19.70	244	25851	0.24	ng	-0.01
Target Compounds						Qvalue
9) Naphthalene	10.51	128	23453	0.263	ng	98
12) 2-Methylnaphthalene	12.13	142	20527	0.340	ng	99
16) Acenaphthylene	14.04	152	278986	2.714	ng	100
17) Acenaphthene	14.38	154	16684	0.252	ng	98
18) Fluorene	15.37	166	55750	0.656	ng	# 80
22) Pentachlorophenol	16.72	266	353	0.036	ng	95
23) Phenanthrene	17.10	178	807677	6.405	ng	100
24) Anthracene	17.19	178	213085	1.871	ng	99
26) Fluoranthene	19.12	202	1126414	7.184	ng	99
28) Pvrene	19.49	202	1487486	9.897	ng	96
30) Benzo(a)anthracene	21.24	228	700875	4.319	ng	91
31) Chrysene	21.29	228	829005	5.242	ng	97
32) Bis(2-ethylhexyl)phthalate	21.19	149	762619	9.137	ng	100
33) Indeno(1,2,3-cd)pyrene	25.68	276	431335	2.178	ng	97
35) Benzo(b)fluoranthene	22.81	252	855632	4.765	ng	99
36) Benzo(k)fluoranthene	22.85	252	274092m	1.544	ng	
37) Benzo(a)pvrene	23.38	252	642750	3.809	ng	98
38) Dibenzo(a,h)anthracene	25.69	278	120629	0.699	ng	# 86
39) Benzo(g,h,i)perylene	26.36	276	473310	2.770	ng	100

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

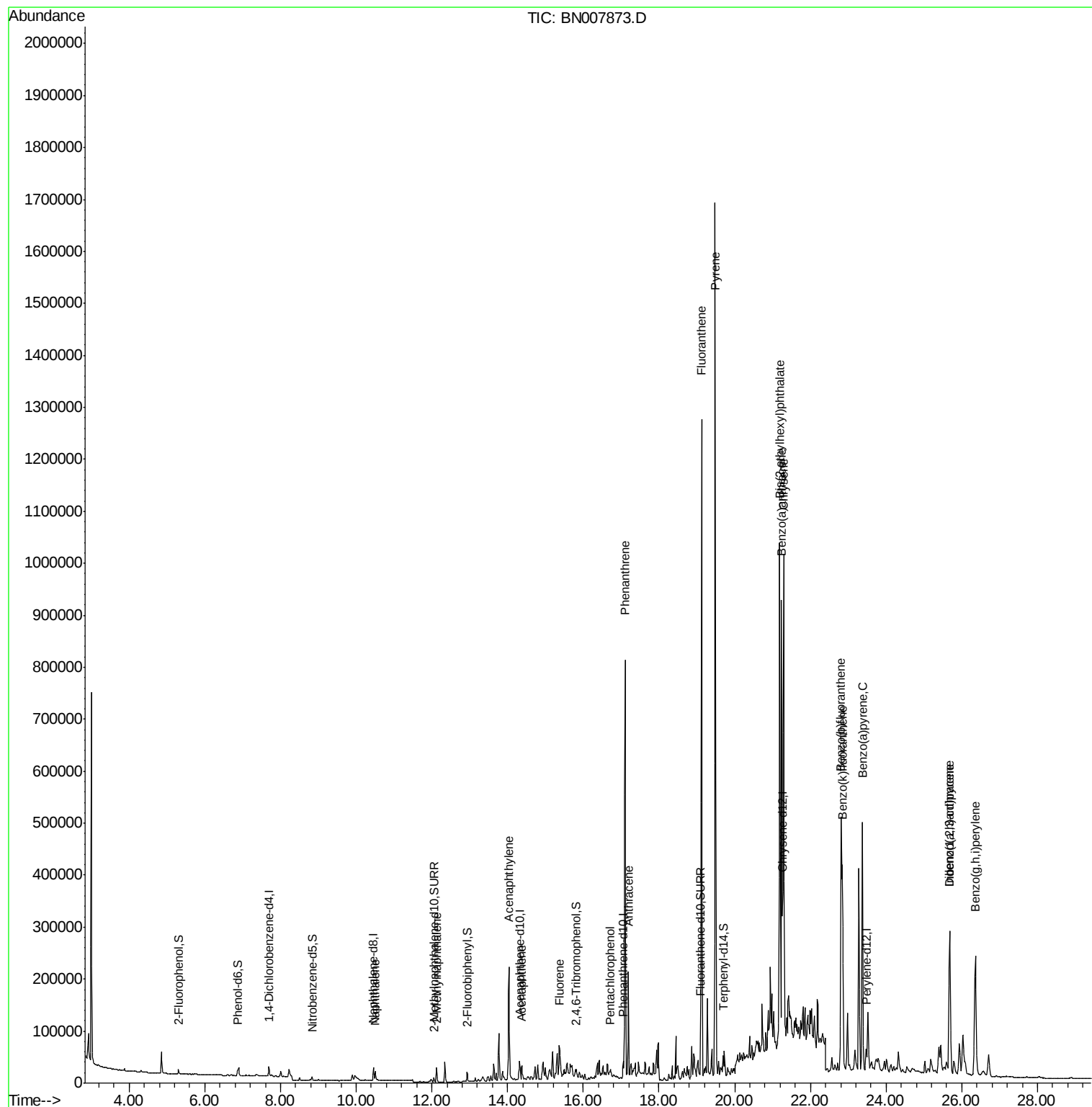
Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN092519\
Data File : BN007873.D
Acq On : 26 Sep 2019 03:54
Operator : JU
Sample : K4994-09
Misc :
ALS Vial : 22 Sample Multiplier: 1

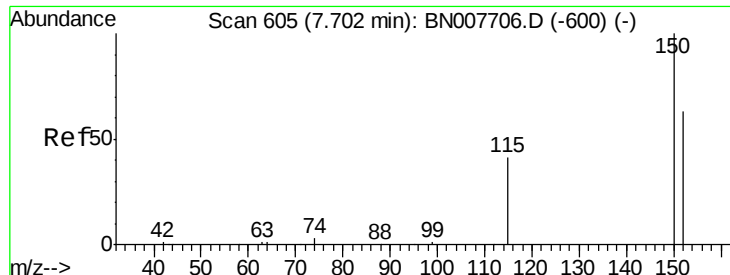
Instrument :
BNA_N
ClientSampleId :
PST-SW117-091919-2

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9/27/2019 8:28:24 AM

Quant Time: Sep 26 09:09:35 2019
Quant Method : Z:\SVOASRV\HPCHEM1\BNA N\METHODS\8270-SIM-BN091819.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
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#1

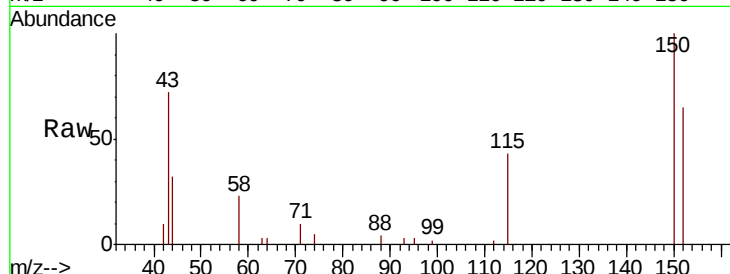
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.69 min Scan# 604
Delta R.T. -0.01 min
Lab File: BN007873.D
Acq: 26 Sep 2019 03:54

Instrument :
BNA_N
ClientSampleId :
PST-SW117-091919-2

Tot Ion	Ratio	Lower	Upper
152	100		
150	153.3	125.6	188.4
115	65.3	53.3	79.9

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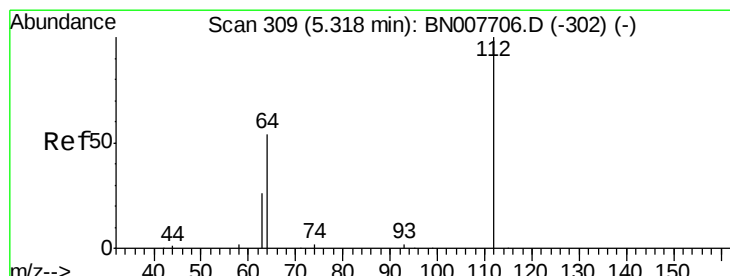
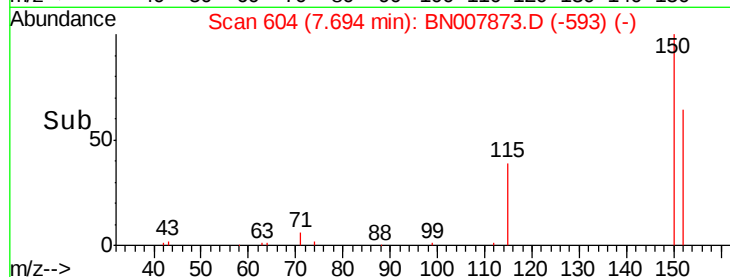
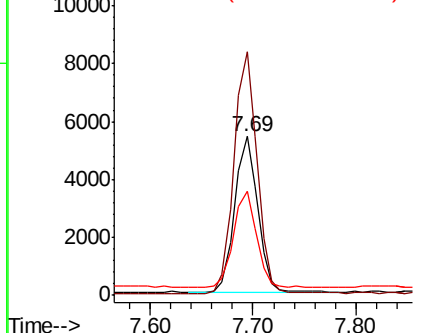


Abundance

Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

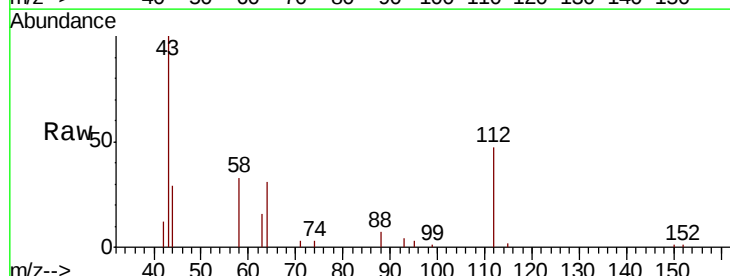
Ion 115.00 (114.70 to 115.70): E



#4

2-Fluorophenol
Concen: 0.225 ng
RT: 5.31 min Scan# 308
Delta R.T. -0.01 min
Lab File: BN007873.D
Acq: 26 Sep 2019 03:54

Tgt Ion	Ratio	Lower	Upper
112	100		
64	58.3	46.6	70.0
63	27.8	23.1	34.7

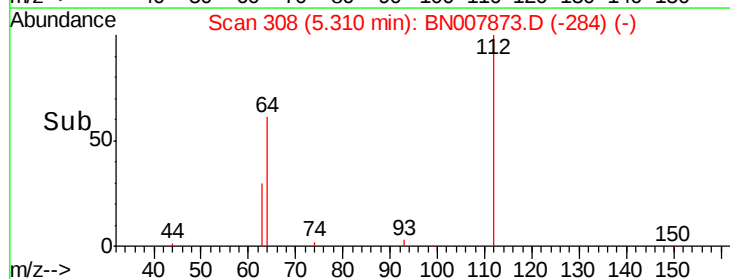
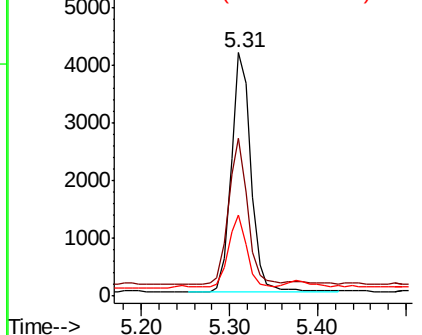


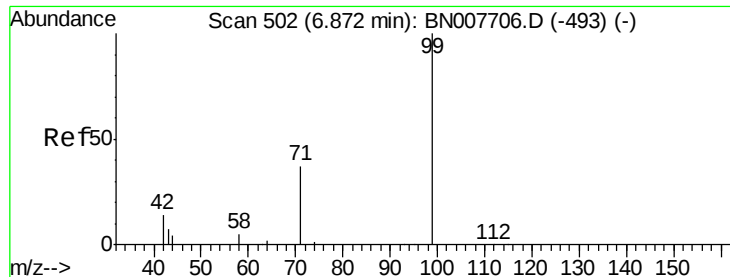
Abundance

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: 0.236 ng

RT: 6.87 min Scan# 502

Delta R.T. 0.00 min

Lab File: BN007873.D

Acq: 26 Sep 2019 03:54

Instrument :

BNA_N

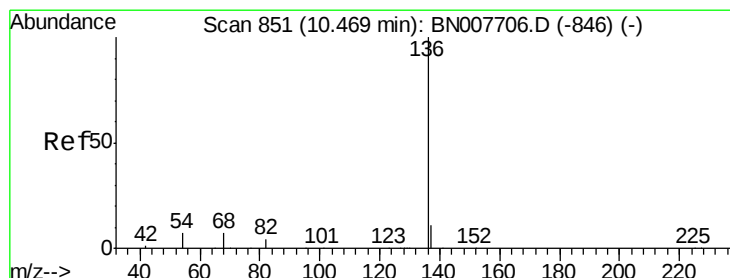
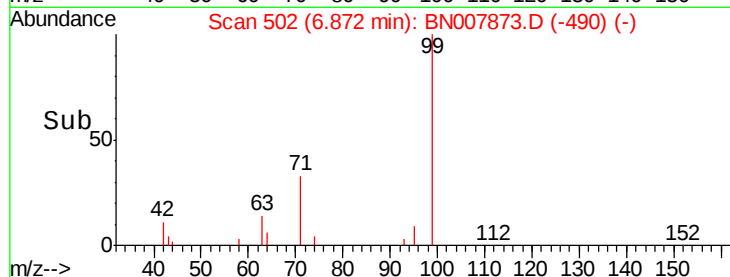
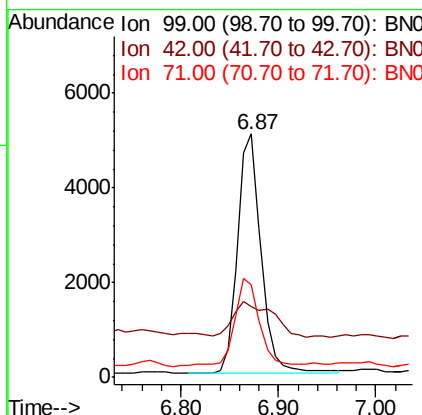
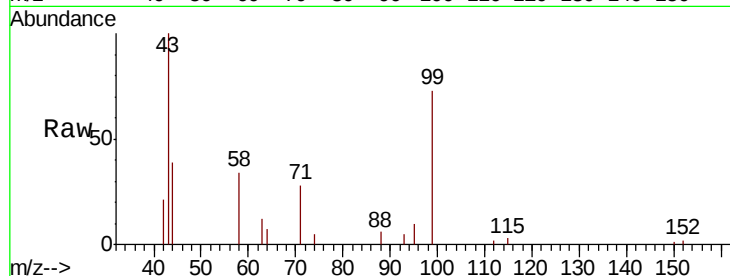
ClientSampleId :

PST-SW117-091919-2

Tot Ion:	99	Resp:	8486
Ion	Ratio	Lower	Upper
99	100		
42	24.9	12.8	19.2#
71	38.8	27.6	41.4

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#7

Naphthalene-d8

Concen: 0.400 ng

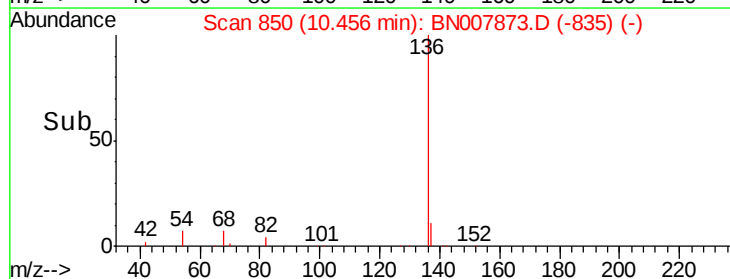
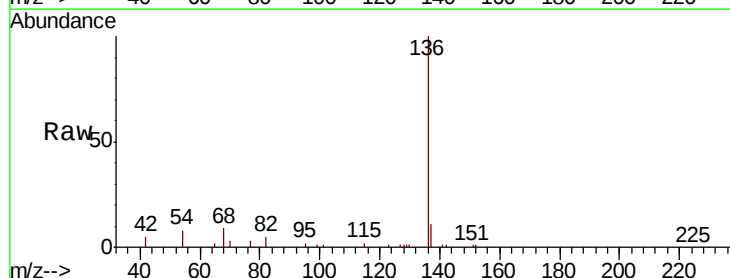
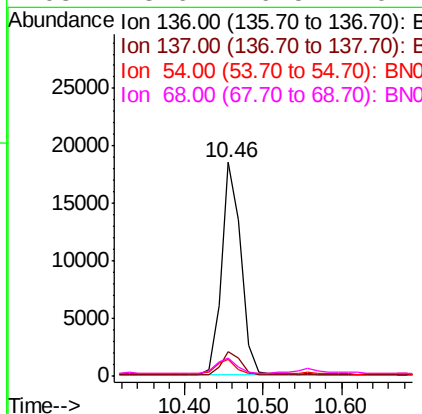
RT: 10.46 min Scan# 850

Delta R.T. -0.01 min

Lab File: BN007873.D

Acq: 26 Sep 2019 03:54

Tgt Ion:	136	Resp:	31827
Ion	Ratio	Lower	Upper
136	100		
137	11.4	9.2	13.8
54	7.7	5.8	8.8
68	8.6	6.5	9.7





#8

Nitrobenzene-d5

Concen: 0.270 ng

RT: 8.83 min Scan# 722

Delta R.T. 0.00 min

Lab File: BN007873.D

Acq: 26 Sep 2019 03:54

Instrument :

BNA_N

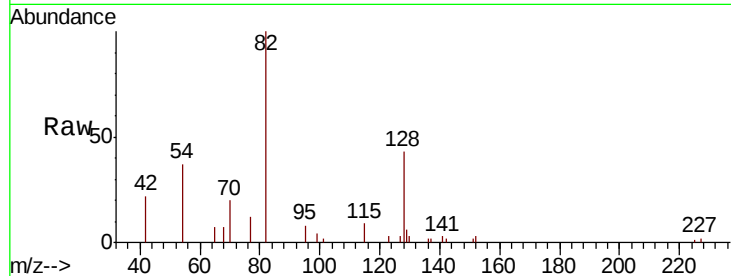
ClientSampleId :

PST-SW117-091919-2

Tot Ion:	82	Resp:	7519
Ion	Ratio	Lower	Upper
82	100		
128	42.9	24.5	36.7#
54	37.4	35.2	52.8

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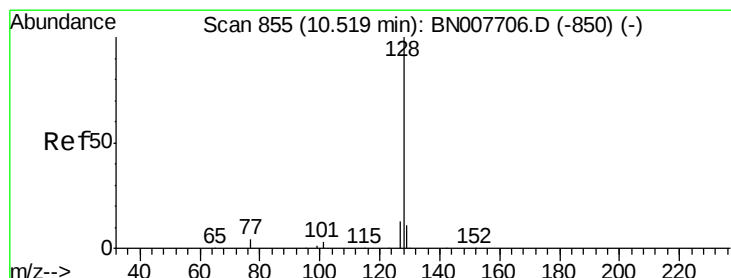
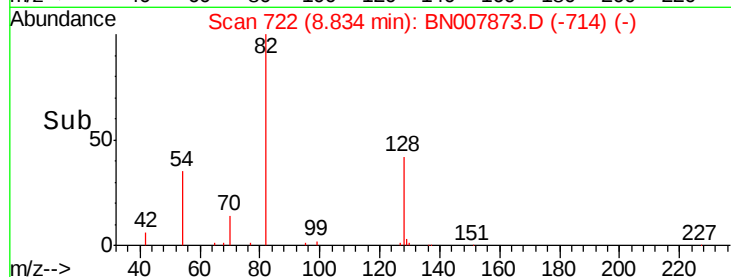
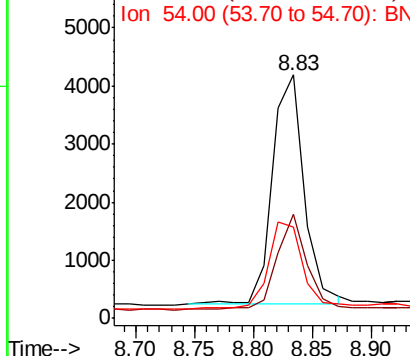


Abundance

Ion 82.00 (81.70 to 82.70): BN0

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BN0



#9

Naphthalene

Concen: 0.263 ng

RT: 10.51 min Scan# 854

Delta R.T. -0.01 min

Lab File: BN007873.D

Acq: 26 Sep 2019 03:54

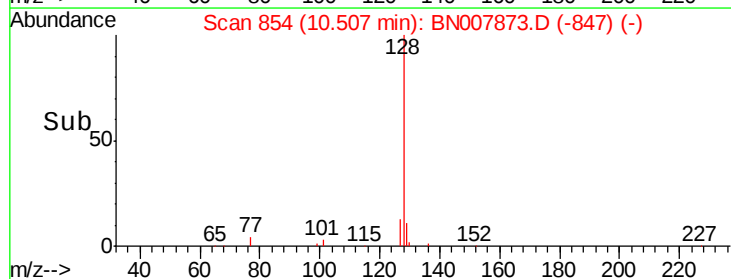
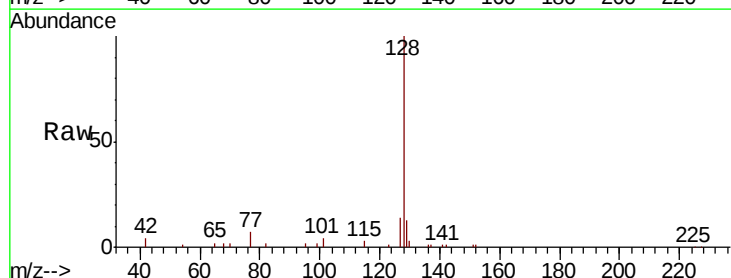
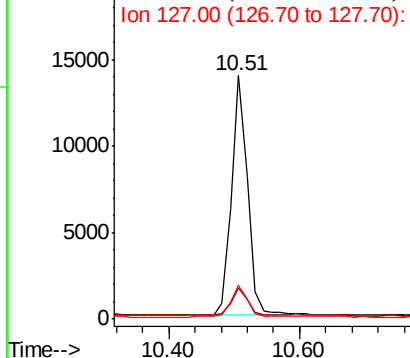
Tgt Ion:	128	Resp:	23453
Ion	Ratio	Lower	Upper
128	100		
129	12.6	9.1	13.7
127	13.7	10.6	15.8

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: 0.249 ng

RT: 12.05 min Scan# 1055

Delta R.T. -0.01 min

Lab File: BN007873.D

Acq: 26 Sep 2019 03:54

Instrument :

BNA_N

ClientSampleId :

PST-SW117-091919-2

Tot Ion:152 Resp: 13335

Ion Ratio Lower Upper

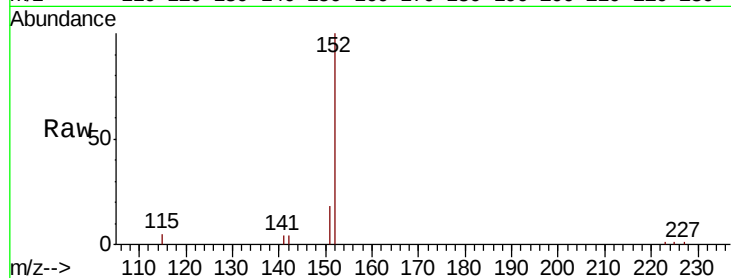
152 100

151 19.4 15.4 23.2

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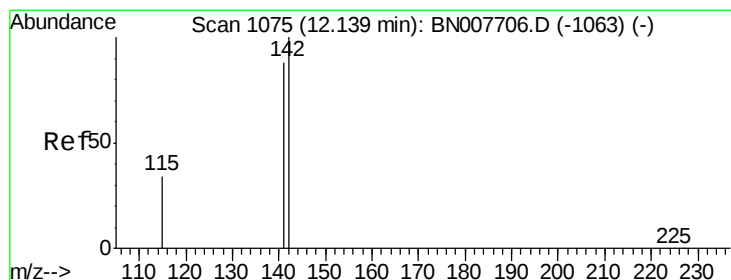
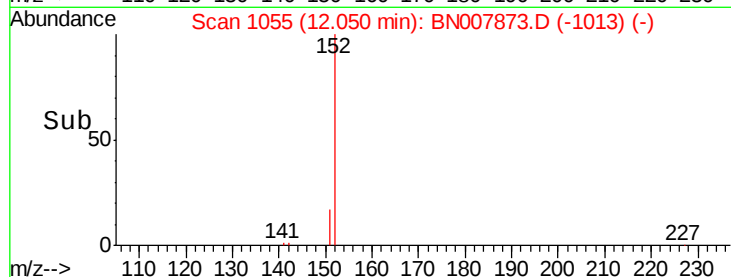
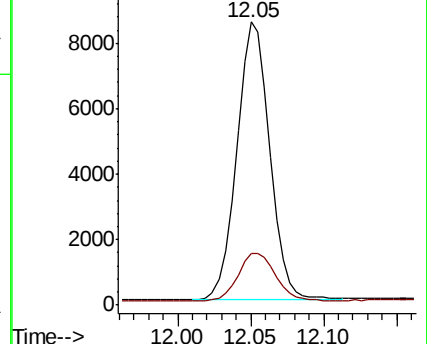
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Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E



#12

2-Methylnaphthalene

Concen: 0.340 ng

RT: 12.13 min Scan# 1072

Delta R.T. -0.01 min

Lab File: BN007873.D

Acq: 26 Sep 2019 03:54

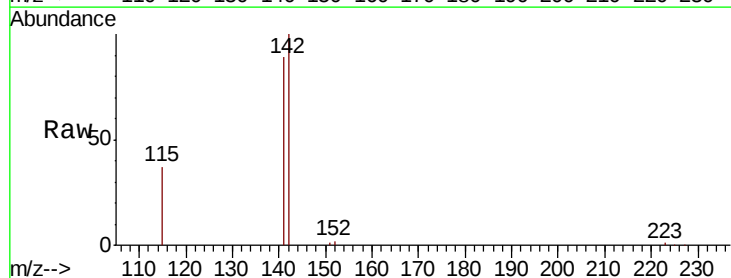
Tgt Ion:142 Resp: 20527

Ion Ratio Lower Upper

142 100

141 88.6 70.6 106.0

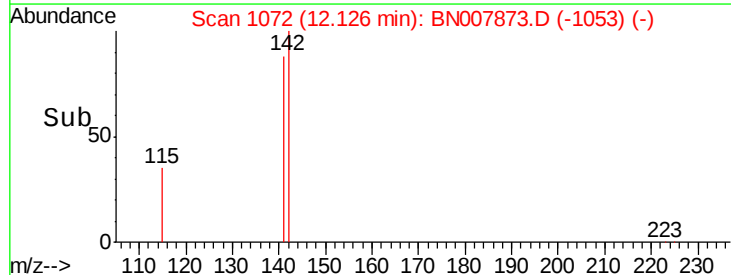
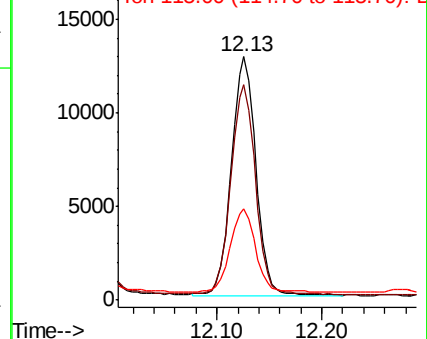
115 37.4 28.3 42.5



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





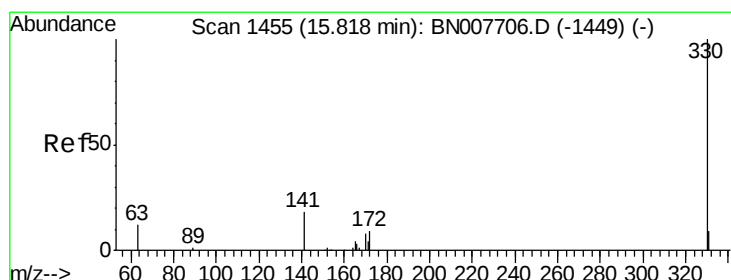
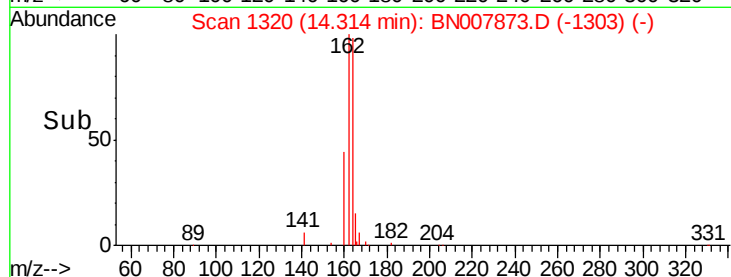
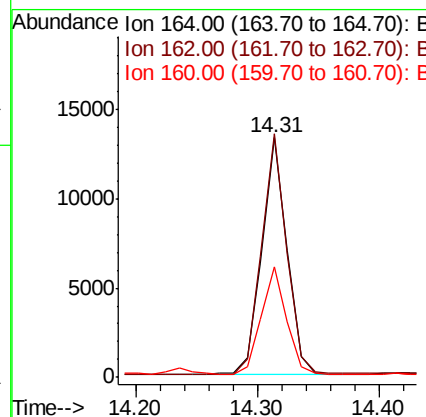
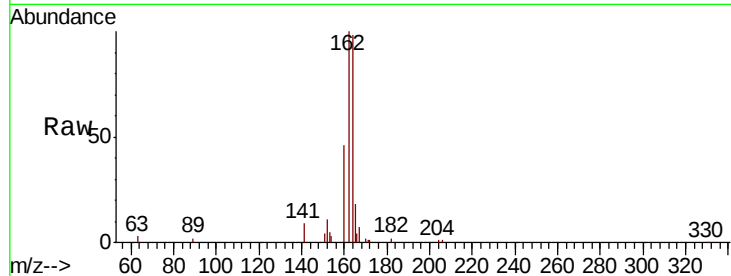
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.31 min Scan# 1320
Delta R.T. -0.01 min
Lab File: BN007873.D
Acq: 26 Sep 2019 03:54

Instrument :
BNA_N
ClientSampleId :
PST-SW117-091919-2

Tot Ion	Ratio	Lower	Upper
164	100		
162	101.8	81.7	122.5
160	46.3	37.0	55.4

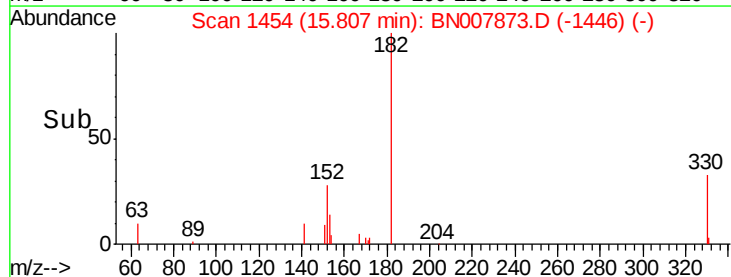
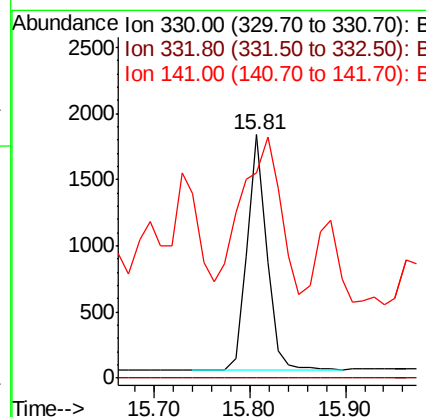
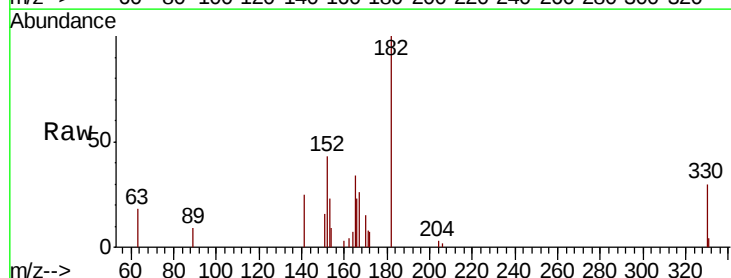
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#14
2,4,6-Tribromophenol
Concen: 0.242 ng
RT: 15.81 min Scan# 1454
Delta R.T. -0.01 min
Lab File: BN007873.D
Acq: 26 Sep 2019 03:54

Tgt Ion	Ratio	Lower	Upper
330	100		
332	0.0	0.0	0.0
141	128.9	28.7	43.1#





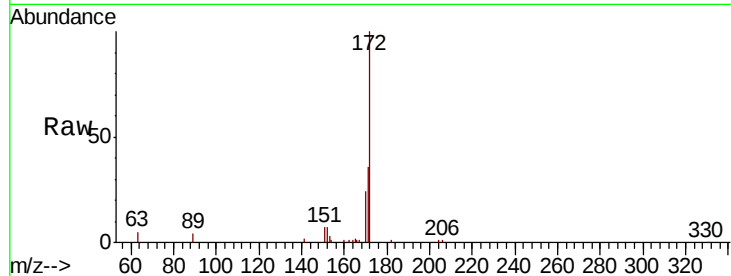
#15
2-Fluorobiphenyl
Concen: 0.225 ng
RT: 12.93 min Scan# 1196
Delta R.T. -0.01 min
Lab File: BN007873.D
Acq: 26 Sep 2019 03:54

Instrument :
BNA_N
ClientSampleId :
PST-SW117-091919-2

Tot Ion	Ratio	Lower	Upper
172	100		
171	35.9	28.8	43.2
170	24.4	19.5	29.3

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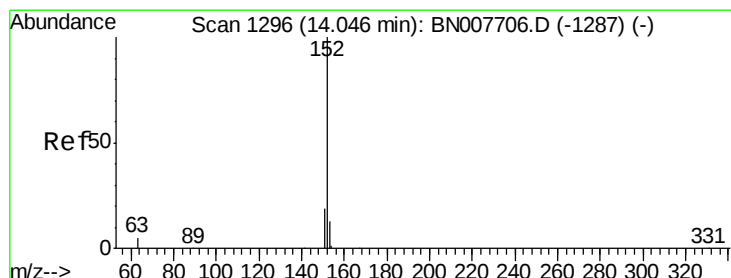
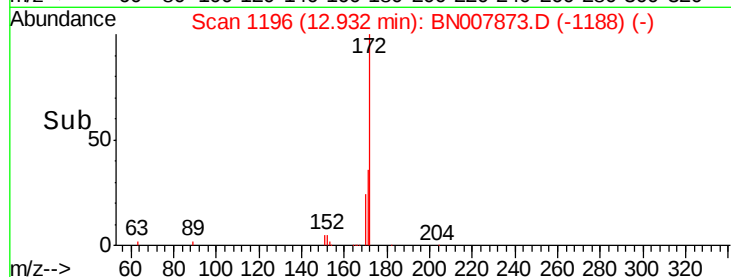
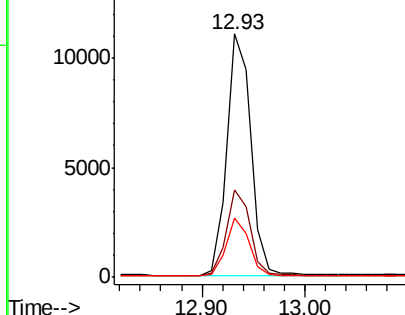


Abundance

Ion 172.00 (171.70 to 172.70): E

Ion 171.00 (170.70 to 171.70): E

Ion 170.00 (169.70 to 170.70): E



#16
Acenaphthylene
Concen: 2.714 ng
RT: 14.04 min Scan# 1295
Delta R.T. -0.01 min
Lab File: BN007873.D
Acq: 26 Sep 2019 03:54

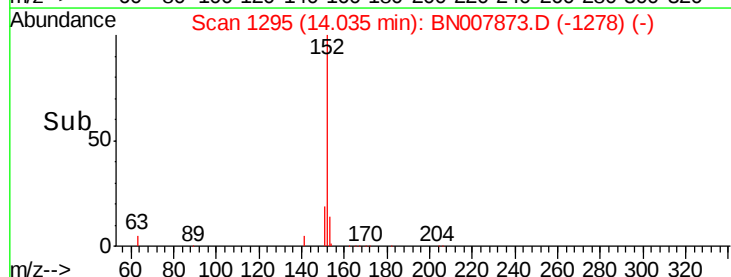
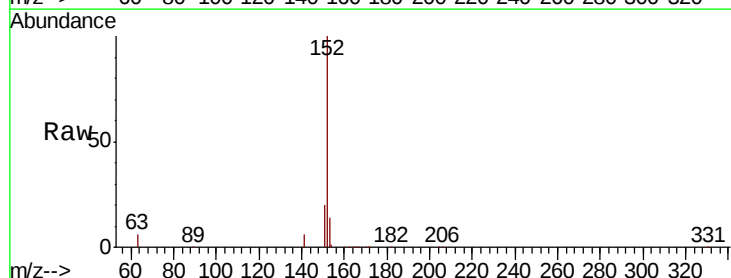
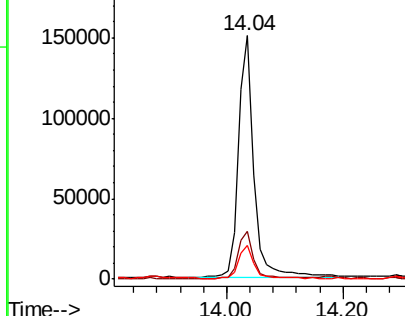
Tgt Ion	Ratio	Lower	Upper
152	100		
151	19.6	15.5	23.3
153	13.2	10.4	15.6

Abundance

Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

Ion 153.00 (152.70 to 153.70): E





#17

Acenaphthene

Concen: 0.252 ng

RT: 14.38 min Scan# 1326

Delta R.T. -0.01 min

Lab File: BN007873.D

Acq: 26 Sep 2019 03:54

Instrument :

BNA_N

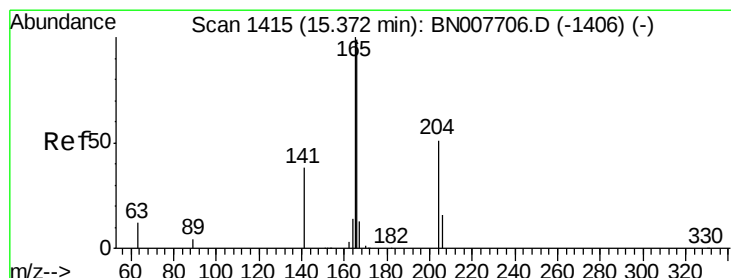
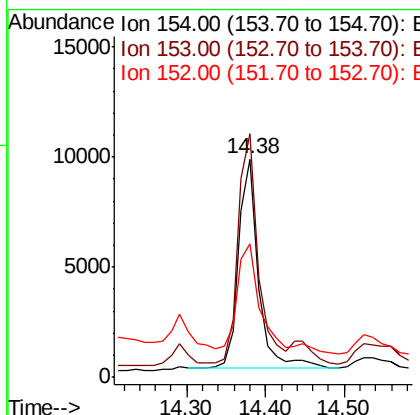
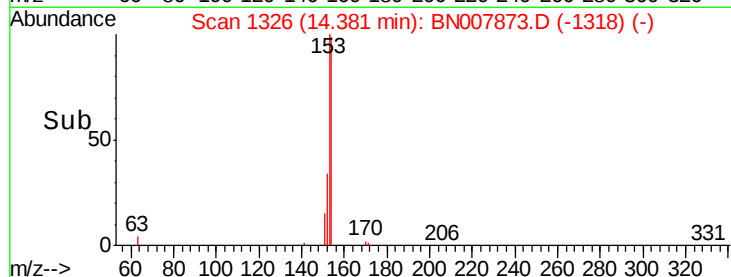
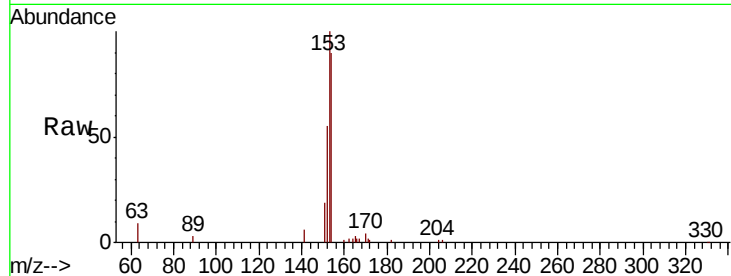
ClientSampleId :

PST-SW117-091919-2

Tot Ion:	154	Resp:	16684
Ion Ratio	Lower	Upper	
154	100		
153	111.2	87.0	130.4
152	53.2	42.7	64.1

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#18

Fluorene

Concen: 0.656 ng

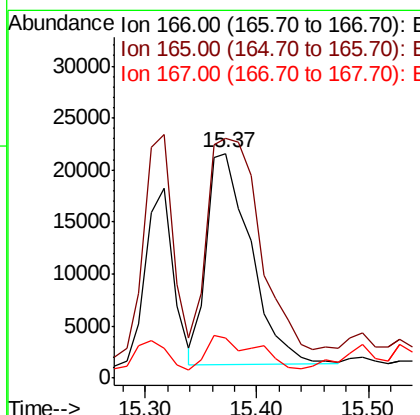
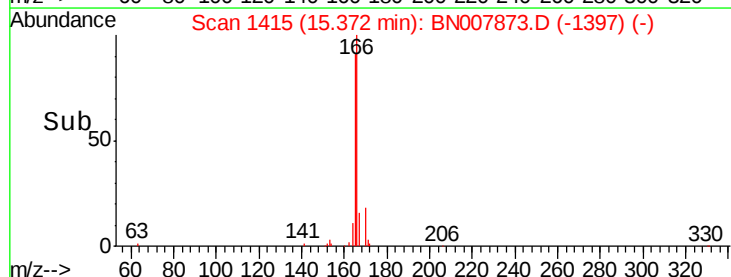
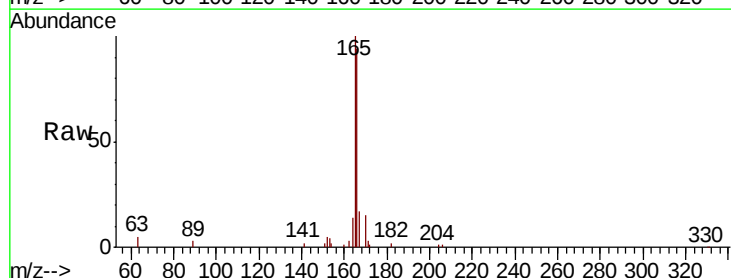
RT: 15.37 min Scan# 1415

Delta R.T. 0.00 min

Lab File: BN007873.D

Acq: 26 Sep 2019 03:54

Tgt Ion:	166	Resp:	55750
Ion Ratio	Lower	Upper	
166	100		
165	118.9	78.0	117.0#
167	17.7	10.9	16.3#





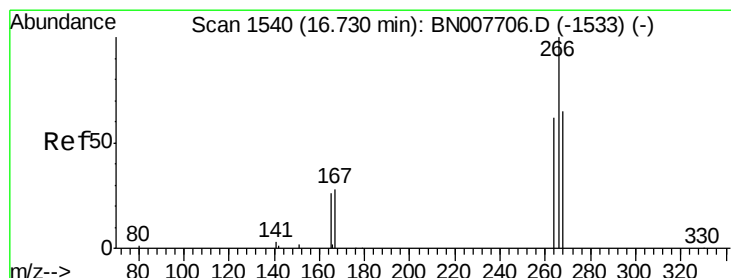
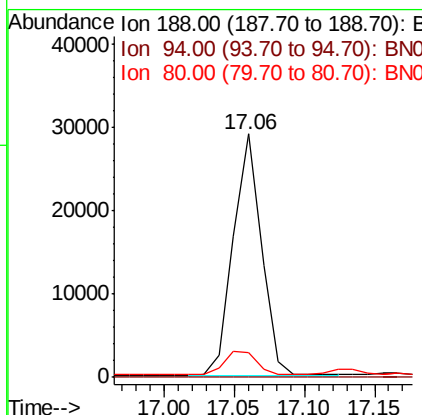
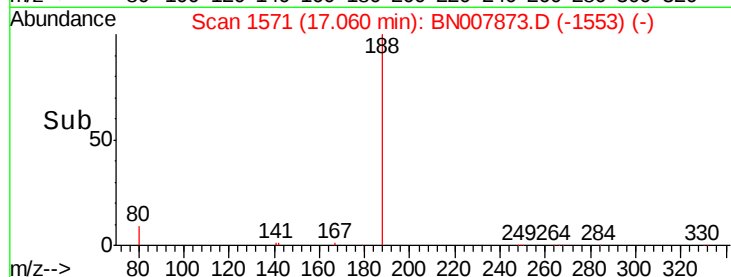
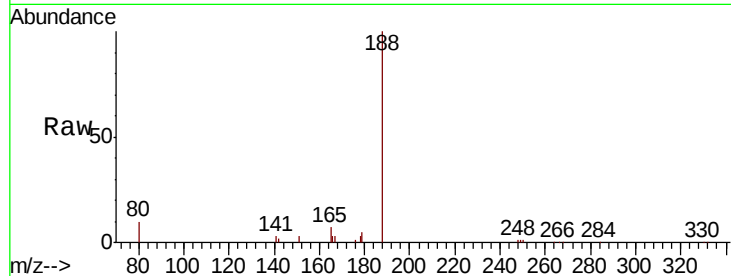
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.06 min Scan# 1571
Delta R.T. -0.01 min
Lab File: BN007873.D
Acq: 26 Sep 2019 03:54

Instrument :
BNA_N
ClientSampleId :
PST-SW117-091919-2

Tot Ion	Ratio	Resp	Lower	Upper
188	100	40477		
94	0.0	0.0	0.0	0.0
80	10.2	7.4	11.2	

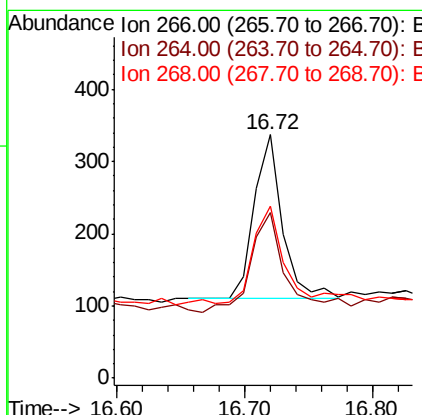
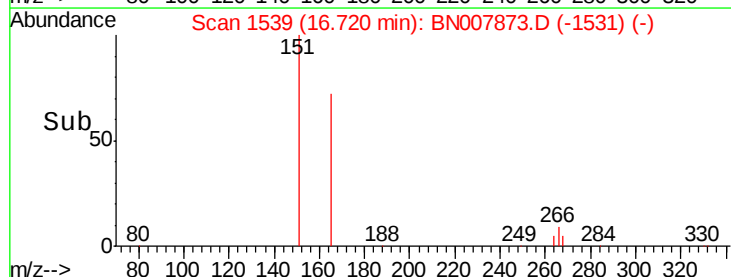
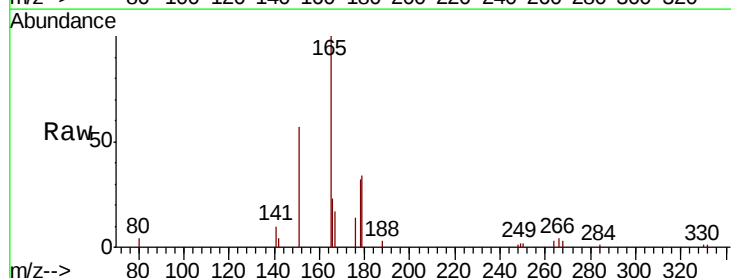
Manual Integrations
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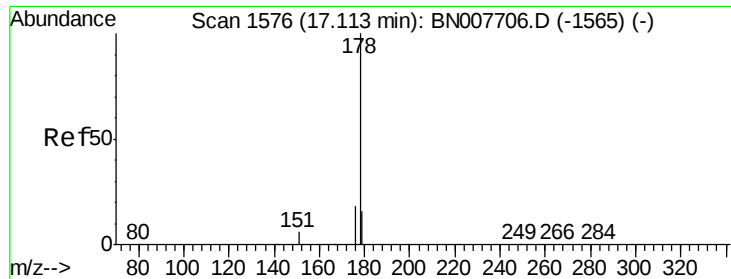
mohammad
9/27/2019 8:28:24 AM



#22
Pentachlorophenol
Concen: 0.036 ng
RT: 16.72 min Scan# 1539
Delta R.T. -0.01 min
Lab File: BN007873.D
Acq: 26 Sep 2019 03:54

Tgt Ion	Ratio	Resp	Lower	Upper
266	100	353		
264	68.2	50.0	75.0	
268	70.6	54.2	81.4	





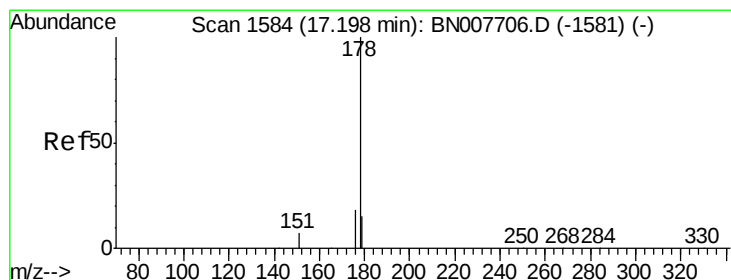
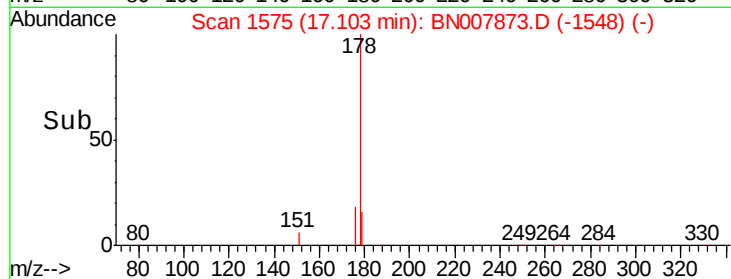
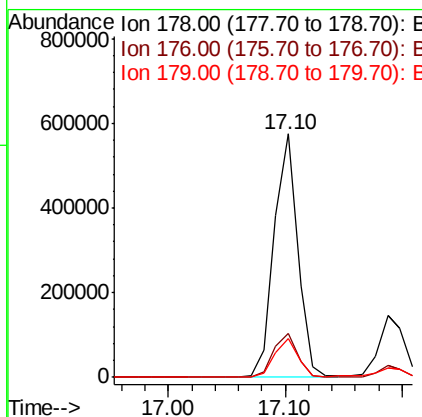
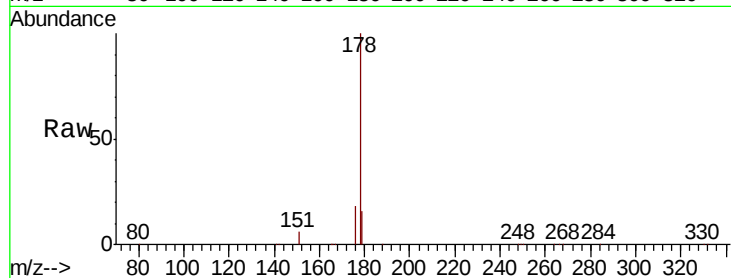
#23
Phenanthrene
Concen: 6.405 ng
RT: 17.10 min Scan# 1575
Delta R.T. -0.01 min
Lab File: BN007873.D
Acq: 26 Sep 2019 03:54

Instrument :
BNA_N
ClientSampleId :
PST-SW117-091919-2

Tot Ion	Ratio	Lower	Upper
178	100		
176	18.6	14.9	22.3
179	15.8	12.5	18.7

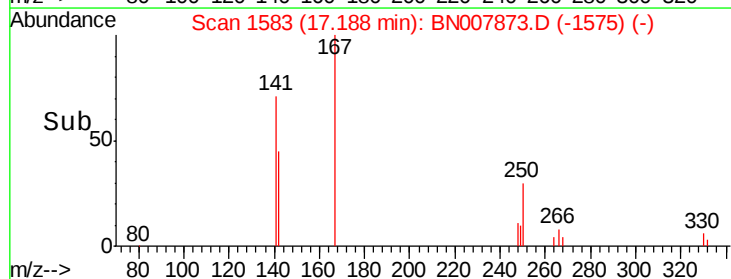
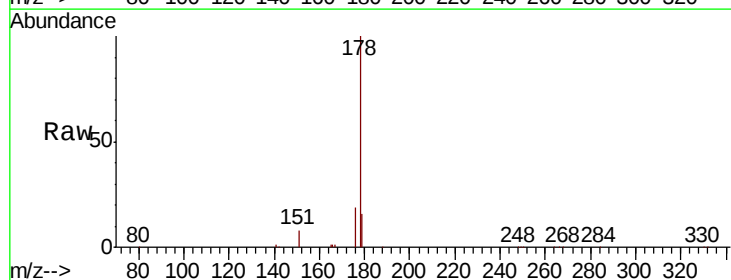
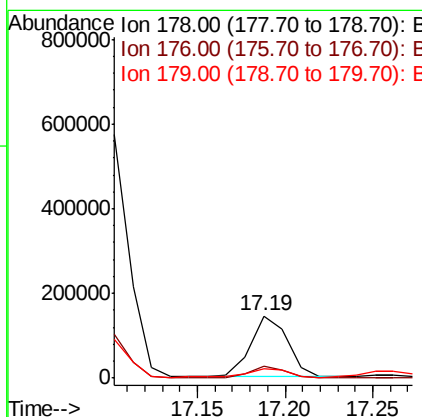
Manual Integrations
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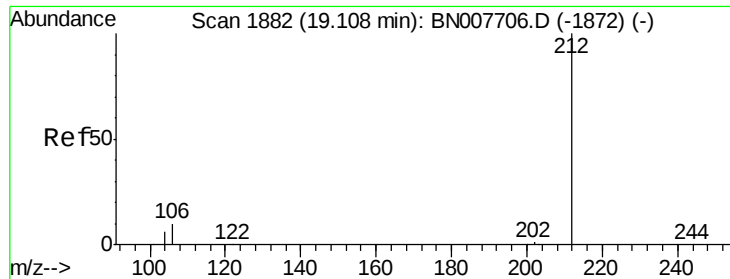
mohammad
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#24
Anthracene
Concen: 1.871 ng
RT: 17.19 min Scan# 1583
Delta R.T. -0.01 min
Lab File: BN007873.D
Acq: 26 Sep 2019 03:54

Tgt Ion	Ratio	Lower	Upper
178	100		
176	18.0	14.6	21.8
179	16.1	12.2	18.4





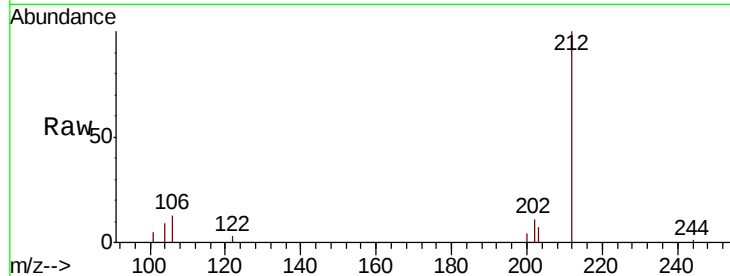
#25
Fluoranthene-d10
Concen: 0.233 ng
RT: 19.09 min Scan# 1879
Delta R.T. -0.01 min
Lab File: BN007873.D
Acq: 26 Sep 2019 03:54

Instrument :
BNA_N
ClientSampleId :
PST-SW117-091919-2

Tot Ion	Ratio	Lower	Upper
212	100		
106	10.7	9.4	14.0
104	8.3	5.3	7.9

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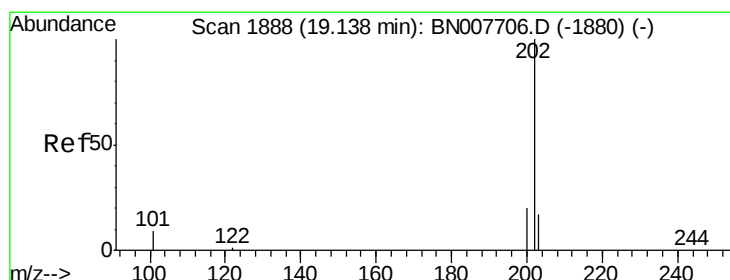
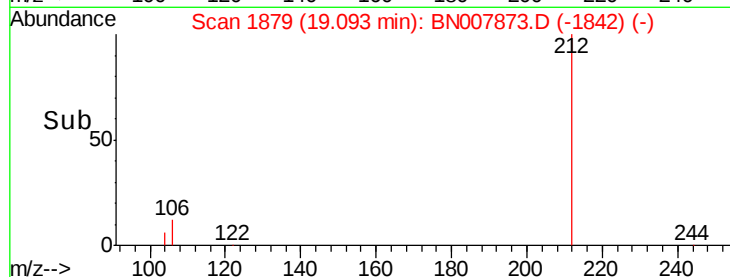
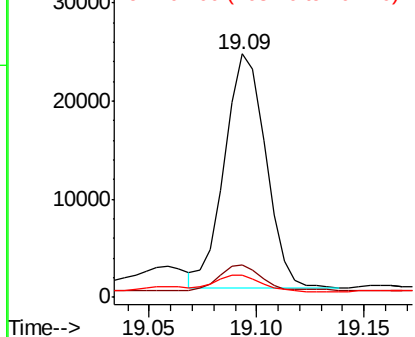


Abundance

Ion 212.00 (211.70 to 212.70): E

Ion 106.00 (105.70 to 106.70): E

Ion 104.00 (103.70 to 104.70): E



#26
Fluoranthene
Concen: 7.184 ng
RT: 19.12 min Scan# 1885
Delta R.T. -0.01 min
Lab File: BN007873.D
Acq: 26 Sep 2019 03:54

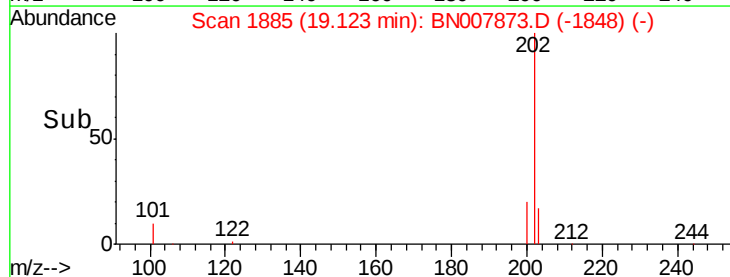
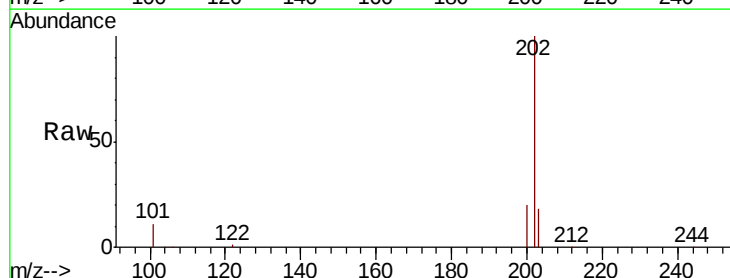
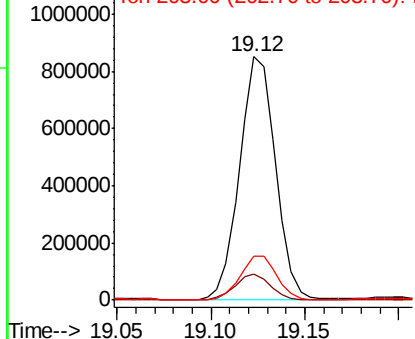
Tgt Ion	Ratio	Lower	Upper
202	100		
101	10.5	8.4	12.6
203	18.1	13.8	20.8

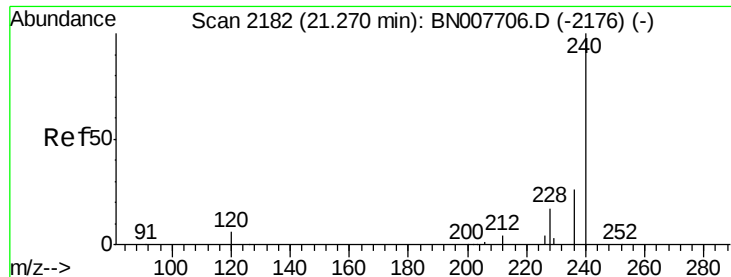
Abundance

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# 2181

Delta R.T. -0.01 min

Lab File: BN007873.D

Acq: 26 Sep 2019 03:54

Instrument :

BNA_N

ClientSampleId :

PST-SW117-091919-2

Tot Ion:240 Resp: 44068

Ion Ratio Lower Upper

240 100

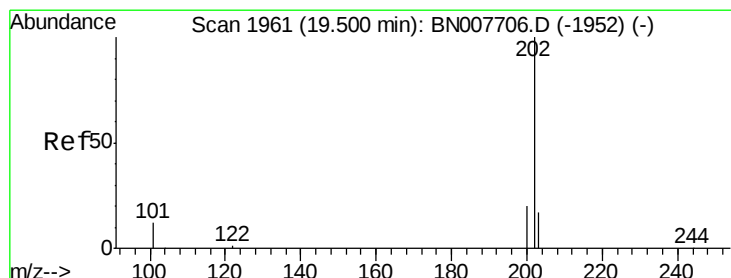
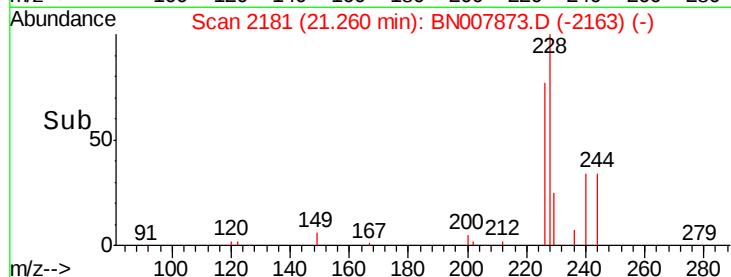
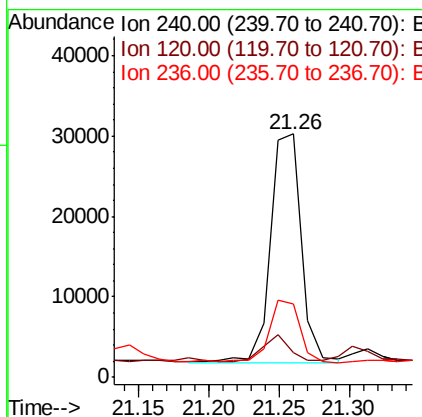
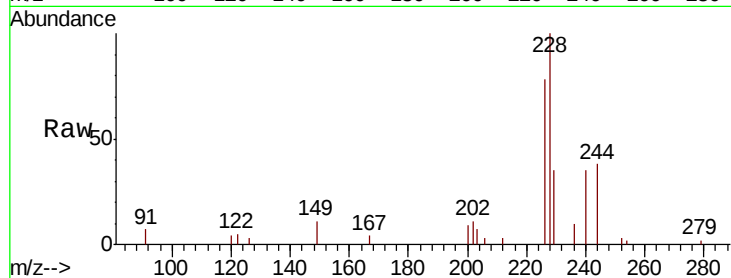
120 10.1 5.4 8.2#

236 30.0 21.0 31.4

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#28

Pyrene

Concen: 9.897 ng

RT: 19.49 min Scan# 1958

Delta R.T. -0.01 min

Lab File: BN007873.D

Acq: 26 Sep 2019 03:54

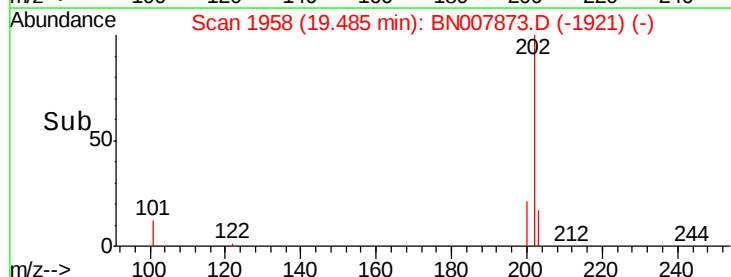
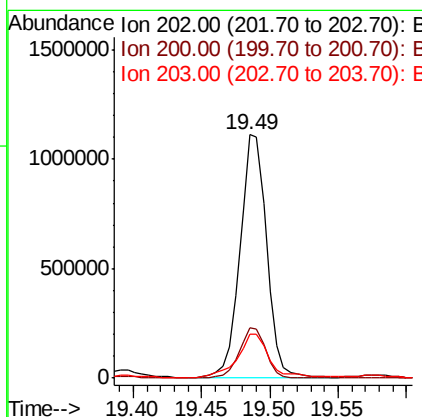
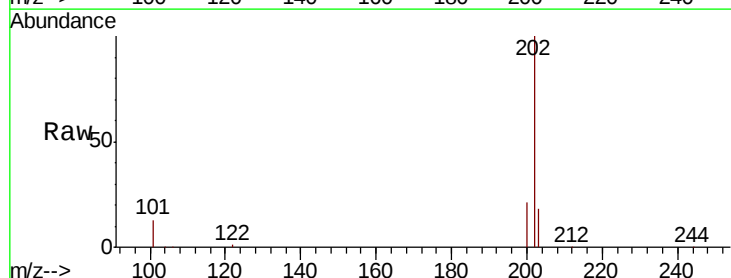
Tgt Ion:202 Resp: 1487486

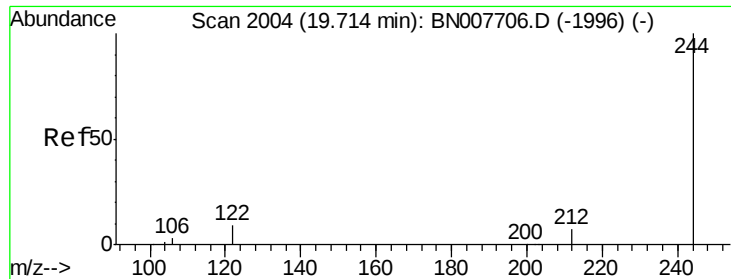
Ion Ratio Lower Upper

202 100

200 20.4 16.4 24.6

203 21.1 14.1 21.1





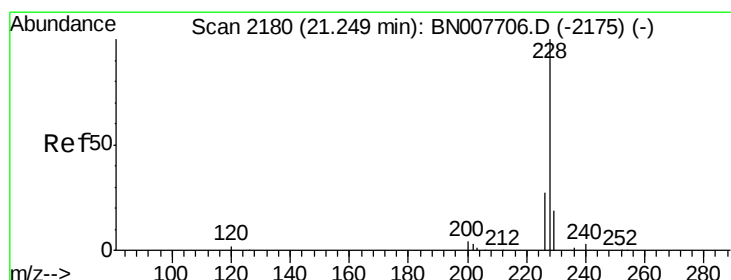
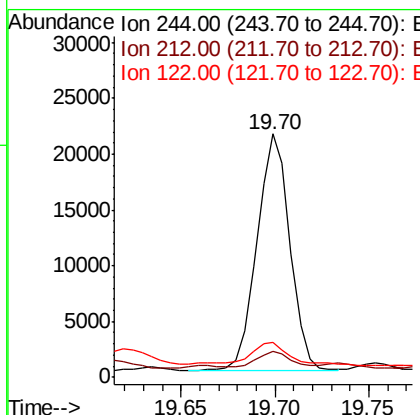
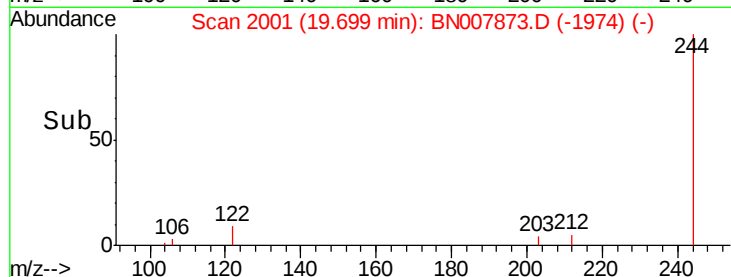
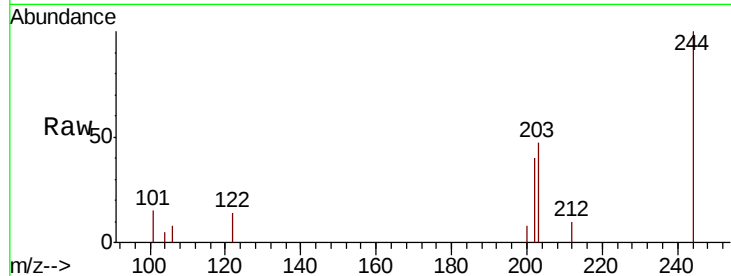
#29
 Terphenyl-d14
 Concen: 0.239 ng
 RT: 19.70 min Scan# 2001
 Delta R.T. -0.01 min
 Lab File: BN007873.D
 Acq: 26 Sep 2019 03:54

Instrument :
 BNA_N
 ClientSampleId :
 PST-SW117-091919-2

Tot Ion	Ratio	Lower	Upper
244	100		
212	10.5	5.9	8.9#
122	14.4	7.4	11.2#

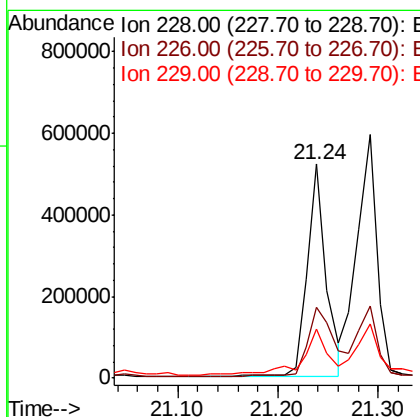
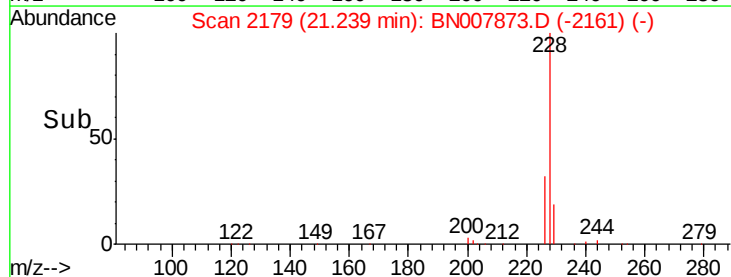
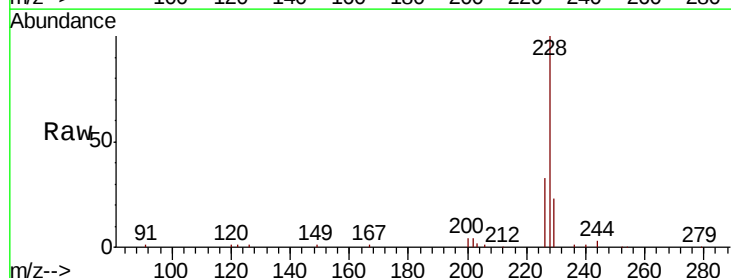
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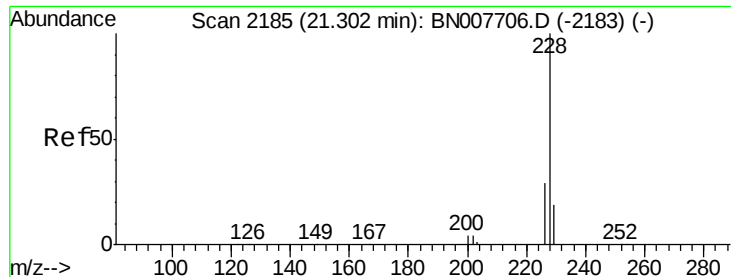
mohammad
 9/27/2019 8:28:24 AM



#30
 Benzo(a)anthracene
 Concen: 4.319 ng
 RT: 21.24 min Scan# 2179
 Delta R.T. -0.01 min
 Lab File: BN007873.D
 Acq: 26 Sep 2019 03:54

Tgt Ion	Ratio	Lower	Upper
228	100		
226	33.1	22.1	33.1
229	22.6	15.8	23.6





#31

Chrysene

Concen: 5.242 ng

RT: 21.29 min Scan# 2184

Delta R.T. -0.01 min

Lab File: BN007873.D

Acq: 26 Sep 2019 03:54

Instrument :

BNA_N

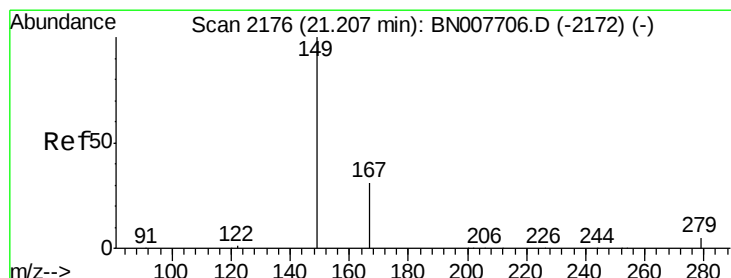
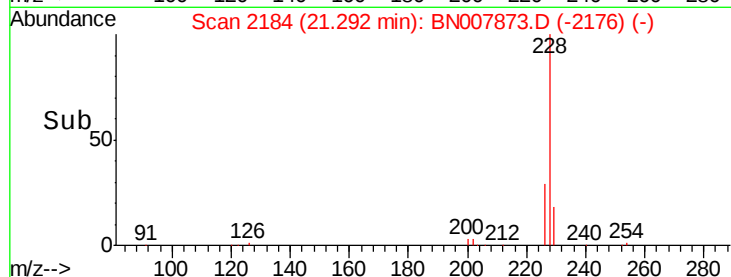
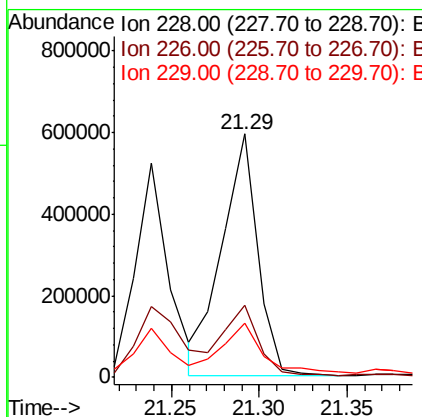
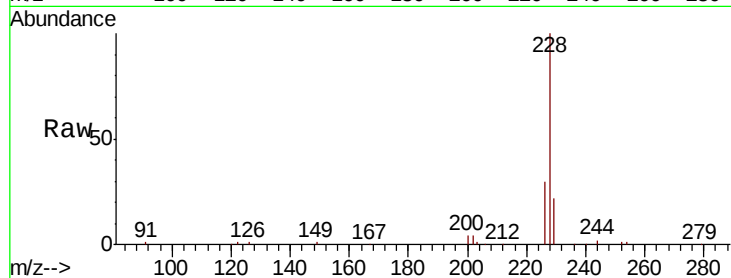
ClientSampleId :

PST-SW117-091919-2

Tot Ion:	228	Resp:	829005
Ion Ratio	Lower	Upper	
228	100		
226	29.6	23.9	35.9
229	22.2	15.8	23.6

Manual Integrations
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#32

Bis(2-ethylhexyl)phthalate

Concen: 9.137 ng

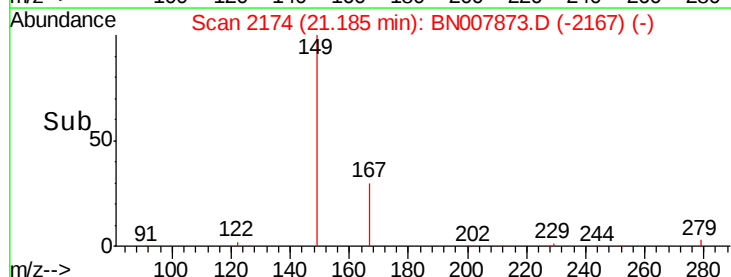
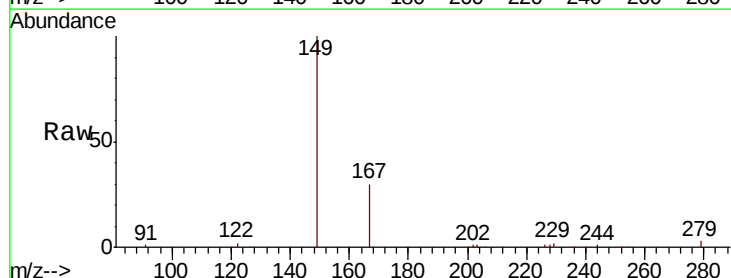
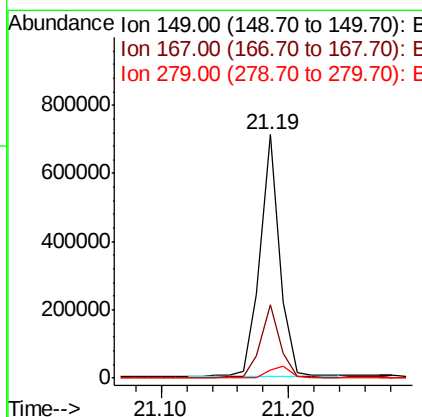
RT: 21.19 min Scan# 2174

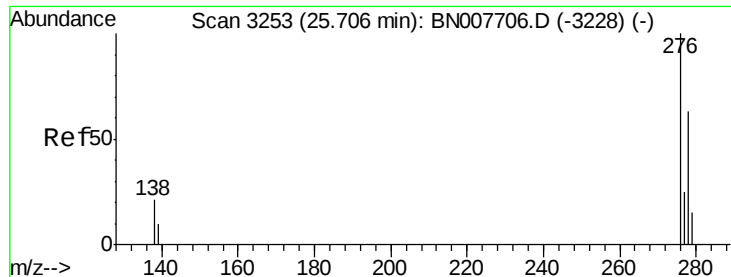
Delta R.T. -0.02 min

Lab File: BN007873.D

Acq: 26 Sep 2019 03:54

Tgt Ion:	149	Resp:	762619
Ion Ratio	Lower	Upper	
149	100		
167	29.5	23.7	35.5
279	5.3	4.2	6.2





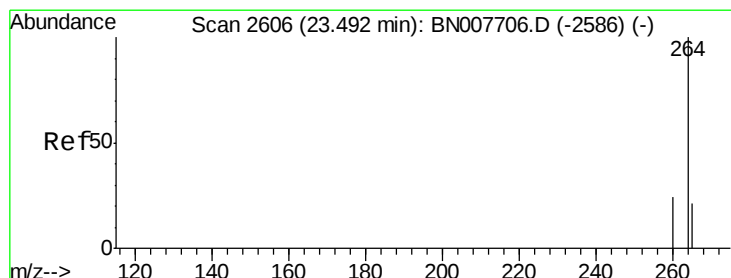
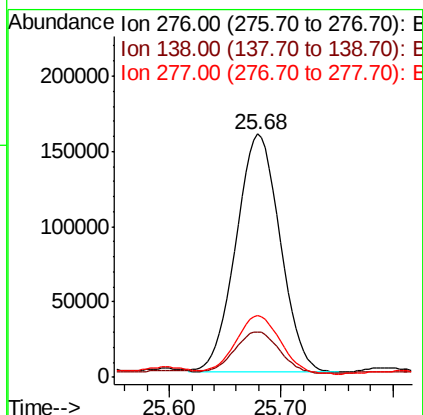
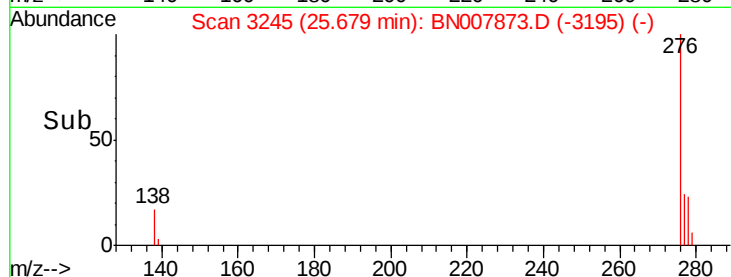
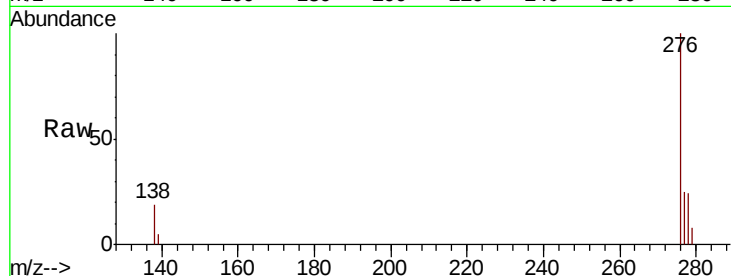
#33
Indeno(1,2,3-cd)pyrene
Concen: 2.178 ng
RT: 25.68 min Scan# 3245
Delta R.T. -0.03 min
Lab File: BN007873.D
Acq: 26 Sep 2019 03:54

Instrument :
BNA_N
ClientSampleId :
PST-SW117-091919-2

Tot Ion	Ratio	Lower	Upper
276	100		
138	17.9	17.1	25.7
277	25.0	20.0	30.0

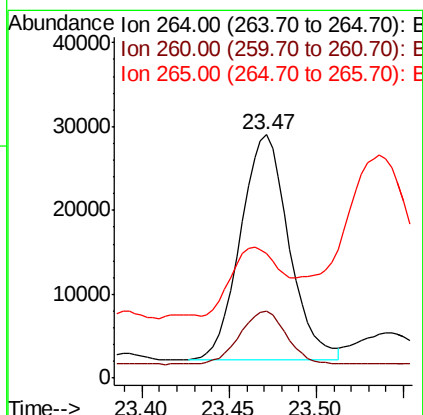
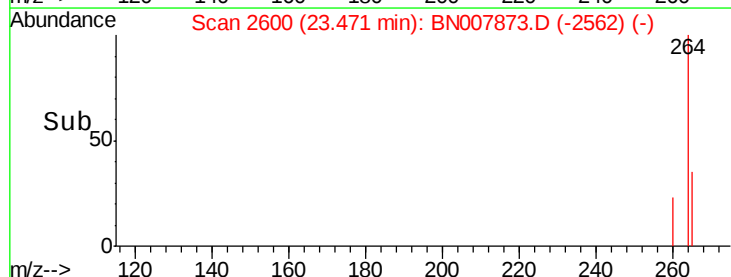
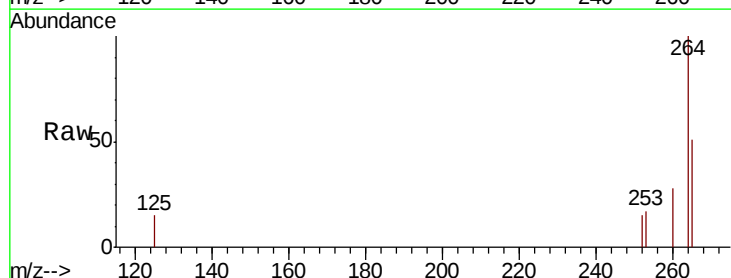
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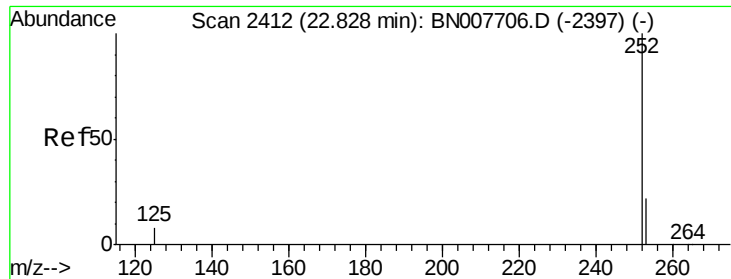
mohammad
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#34
Perylene-d12
Concen: 0.400 ng
RT: 23.47 min Scan# 2600
Delta R.T. -0.02 min
Lab File: BN007873.D
Acq: 26 Sep 2019 03:54

Tgt Ion	Ratio	Lower	Upper
264	100		
260	27.7	19.3	28.9
265	51.1	26.9	40.3#





#35

Benzo(b)fluoranthene

Concen: 4.765 ng

RT: 22.81 min Scan# 2407

Delta R.T. -0.02 min

Lab File: BN007873.D

Acq: 26 Sep 2019 03:54

Instrument :

BNA_N

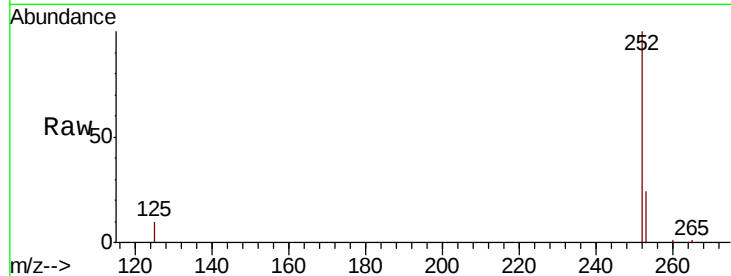
ClientSampleId :

PST-SW117-091919-2

Tot Ion	Ratio	Lower	Upper
252	100		
253	23.6	18.3	27.5
125	9.8	8.2	12.4

Manual Integrations
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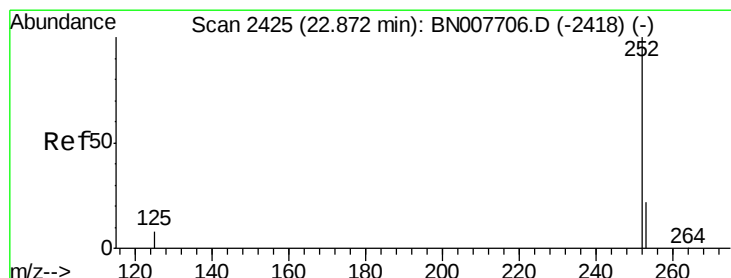
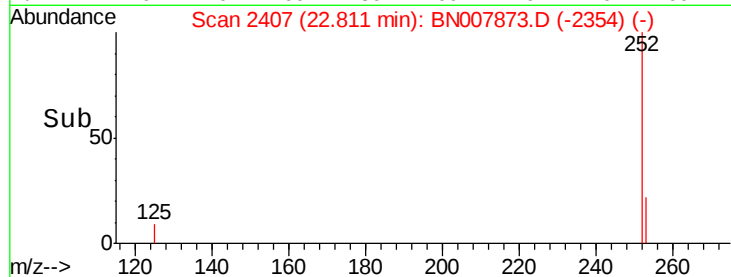
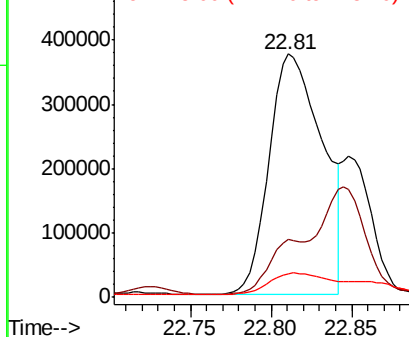


Abundance

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: 1.544 ng m

RT: 22.85 min Scan# 2418

Delta R.T. -0.02 min

Lab File: BN007873.D

Acq: 26 Sep 2019 03:54

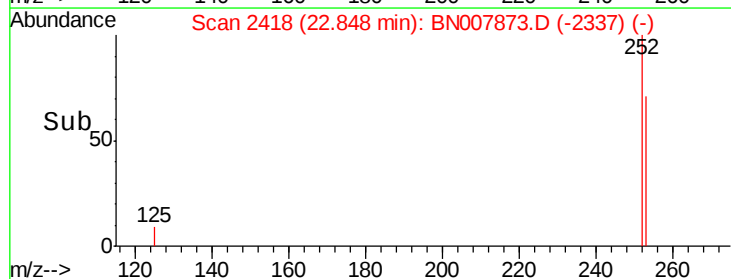
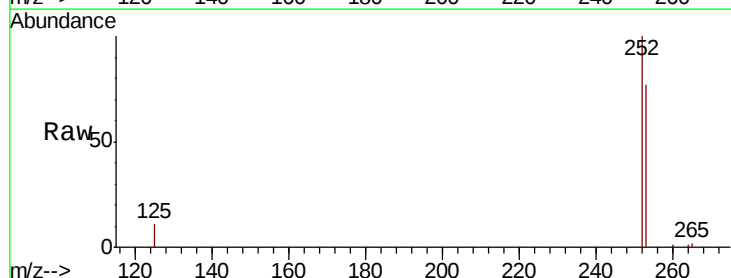
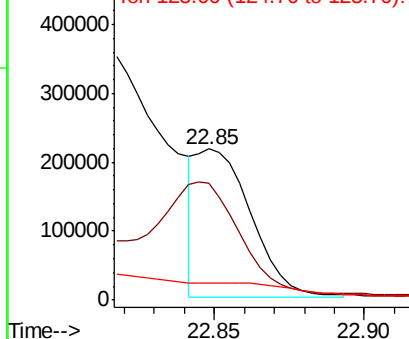
Tgt Ion	Ratio	Lower	Upper
252	100		
253	77.1	18.5	27.7#
125	11.3	8.4	12.6

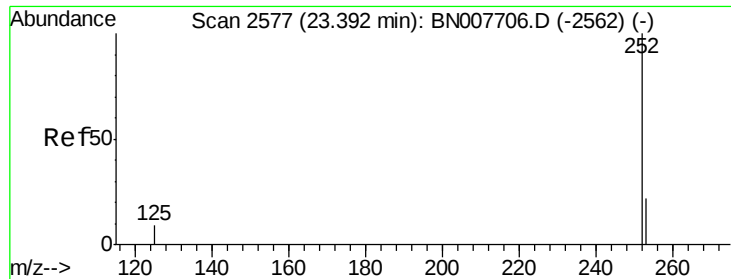
Abundance

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





#37

Benzo(a)pyrene

Concen: 3.809 ng

RT: 23.38 min Scan# 2572

Delta R.T. -0.02 min

Lab File: BN007873.D

Acq: 26 Sep 2019 03:54

Instrument :

BNA_N

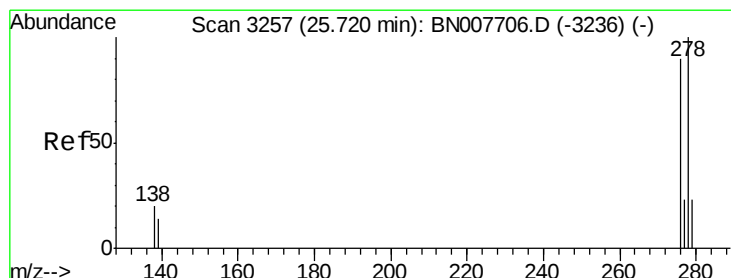
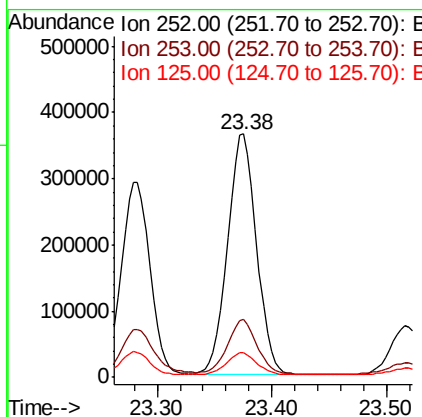
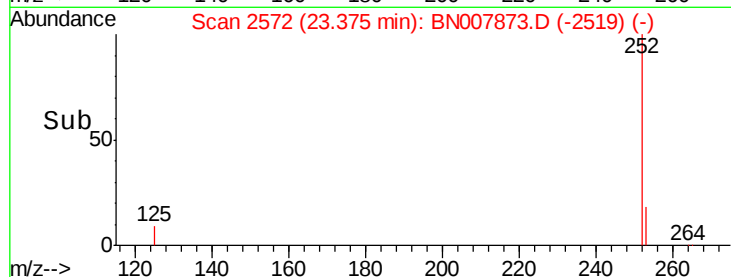
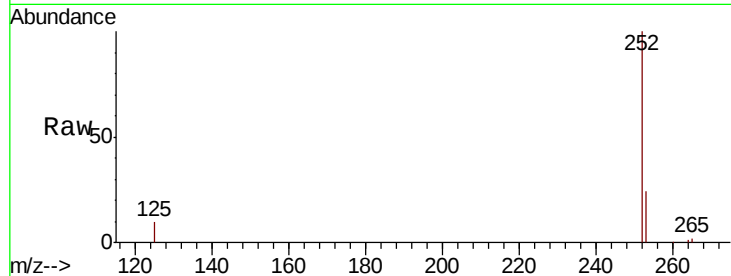
ClientSampleId :

PST-SW117-091919-2

Tot Ion:	252	Resp:	642750
Ion Ratio	Lower	Upper	
252	100		
253	23.6	18.6	27.8
125	10.1	9.4	14.0

Manual Integrations
APPROVED

mohammad
9/27/2019 8:28:24 AM



#38

Dibenzo(a,h)anthracene

Concen: 0.699 ng

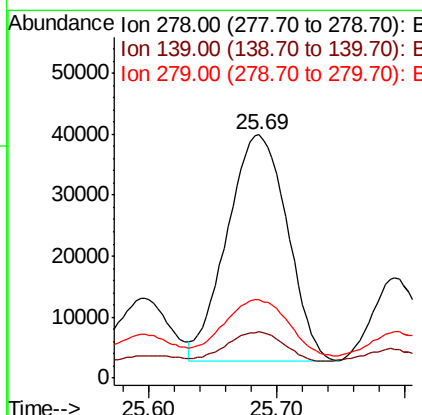
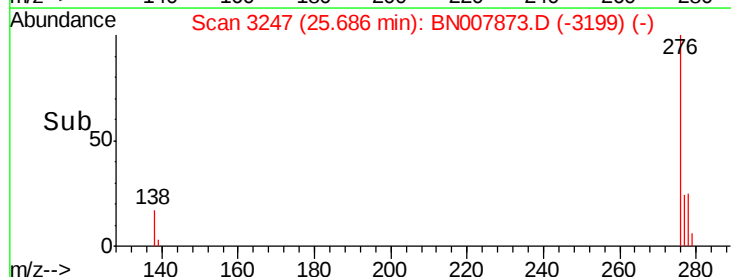
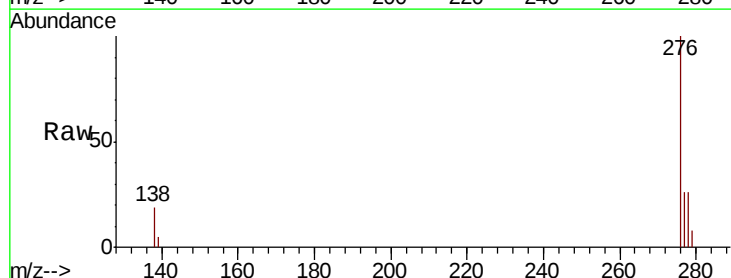
RT: 25.69 min Scan# 3247

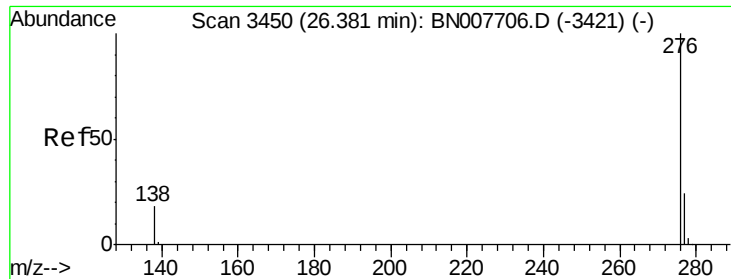
Delta R.T. -0.03 min

Lab File: BN007873.D

Acq: 26 Sep 2019 03:54

Tgt Ion:	278	Resp:	120629
Ion Ratio	Lower	Upper	
278	100		
139	18.9	11.8	17.6#
279	32.3	19.4	29.2#





#39

Benzo(a,h,i)perylene

Concen: 2.770 ng

RT: 26.36 min Scan# 3443

Delta R.T. -0.02 min

Lab File: BN007873.D

Acq: 26 Sep 2019 03:54

Instrument :

BNA_N

ClientSampleId :

PST-SW117-091919-2

Tot Ion:	276	Resp:	473310
Ion Ratio	Lower	Upper	
276	100		
277	24.7	19.8	29.8
138	18.7	15.1	22.7

Manual Integrations
APPROVED

mohammad
9/27/2019 8:28:24 AM

