

Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN070119\
 Data File : BN006684.D
 Acq On : 02 Jul 2019 06:19
 Operator : HP/JU
 Sample : K3504-18 5X
 Misc :
 ALS Vial : 32 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 PST-013-B211-062019

Manual Integrations
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 7/2/2019 2:53:06 PM

Quant Time: Jul 02 07:49:29 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	3926	0.40	ng	0.00
7) Naphthalene-d8	10.39	136	16803	0.40	ng	-0.01
13) Acenaphthene-d10	14.27	164	9402	0.40	ng	-0.01
19) Phenanthrene-d10	17.03	188	20001	0.40	ng	-0.01
27) Chrysene-d12	21.25	240	19409	0.40	ng	-0.02
34) Perylene-d12	23.48	264	23056	0.40	ng	-0.04
System Monitoring Compounds						
4) 2-Fluorophenol	5.24	112	477	0.05	ng	0.00
5) Phenol-d6	6.84	99	596	0.05	ng	0.00
8) Nitrobenzene-d5	8.79	82	481	0.04	ng	0.00
11) 2-Methylnaphthalene-d10	11.99	152	1186	0.04	ng	0.00
14) 2,4,6-Tribromophenol	15.78	330	245	0.06	ng	-0.01
15) 2-Fluorobiphenyl	12.88	172	1565	0.04	ng	-0.01
25) Fluoranthene-d10	19.07	212	2750	0.05	ng	0.00
29) Terphenyl-d14	19.67	244	3173	0.08	ng	0.00
Target Compounds						Qvalue
9) Naphthalene	10.44	128	33605	0.761	ng	100
12) 2-Methylnaphthalene	12.07	142	16921	0.555	ng	99
16) Acenaphthylene	13.99	152	153321	3.420	ng	99
17) Acenaphthene	14.33	154	39102	1.324	ng	98
18) Fluorene	15.32	166	53463	1.435	ng	99
23) Phenanthrene	17.07	178	1028673	18.088	ng	100
24) Anthracene	17.15	178	329526	6.678	ng	# 96
26) Fluoranthene	19.10	202	1851543	26.789	ng	98
28) Pyrene	19.47	202	1719923	25.325	ng	96
30) Benzo(a)anthracene	21.24	228	1026689	16.180	ng	96
31) Chrysene	21.29	228	785650	11.485	ng	97
32) Bis(2-ethylhexyl)phthalate	21.15	149	2927	0.092	ng	# 90
33) Indeno(1,2,3-cd)pyrene	25.71	276	530145	7.657	ng	97
35) Benzo(b)fluoranthene	22.82	252	1093496	13.943	ng	100
36) Benzo(k)fluoranthene	22.85	252	432333m	5.171	ng	
37) Benzo(a)pyrene	23.38	252	848844	11.578	ng	99
38) Dibenzo(a,h)anthracene	25.71	278	145377	2.270	ng	# 90
39) Benzo(a,h,i)perylene	26.40	276	516632	8.080	ng	100

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

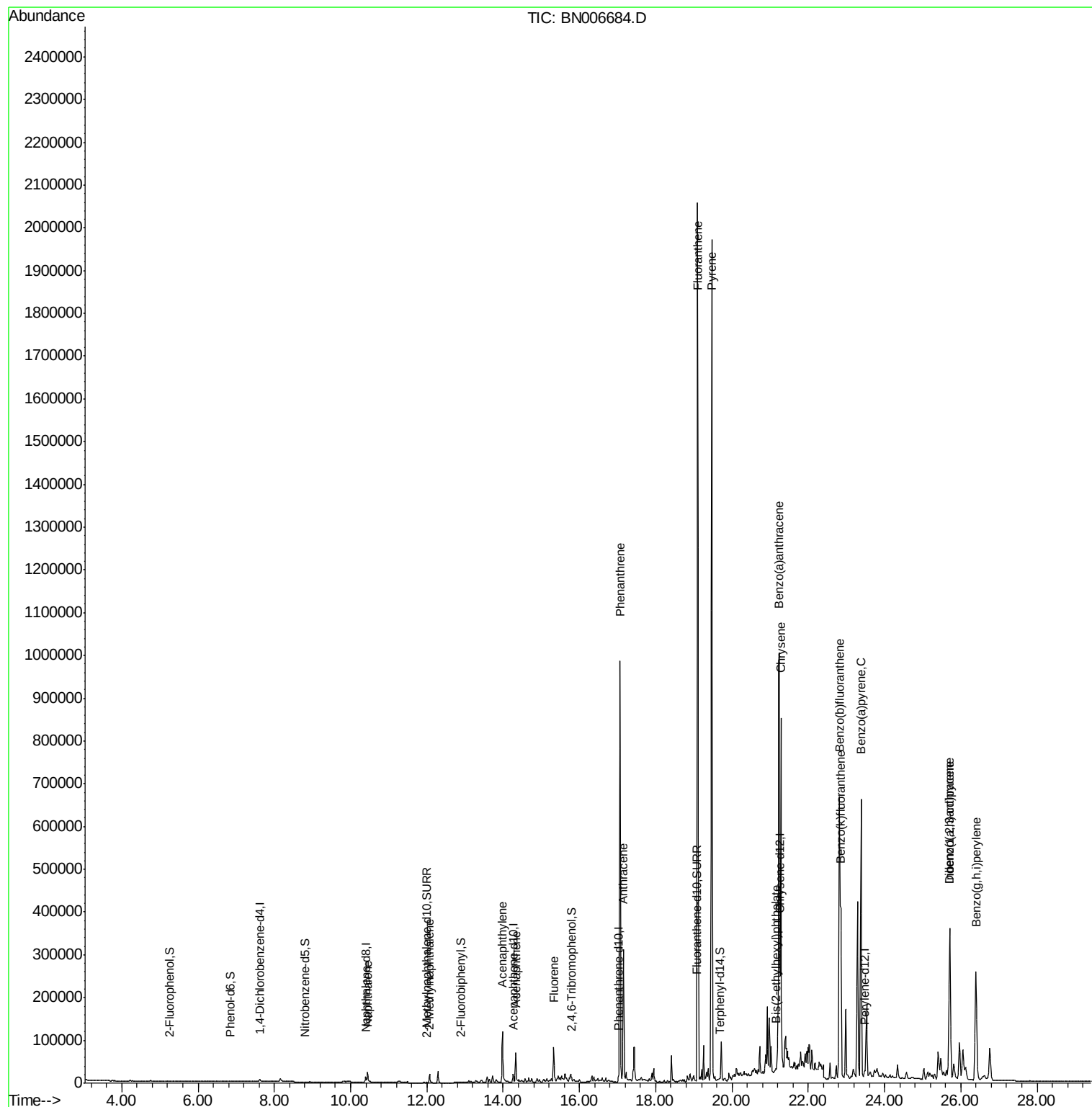
Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN070119\
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ALS Vial : 32 Sample Multiplier: 1

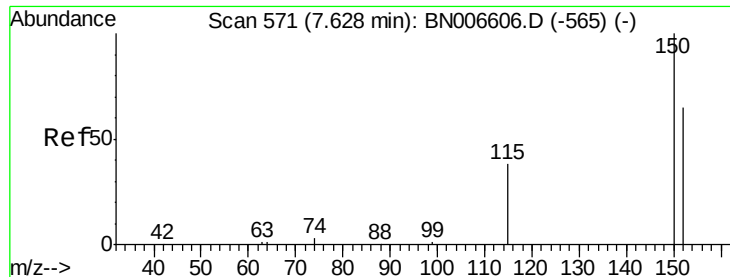
Instrument :
BNA_N
ClientSampleId :
PST-013-B211-062019

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Quant Time: Jul 02 07:49:29 2019
Quant Method : Z:\SVOASRV\HPCHEM1\BNA N\METHODS\8270-SIM-BN062819.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
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#1

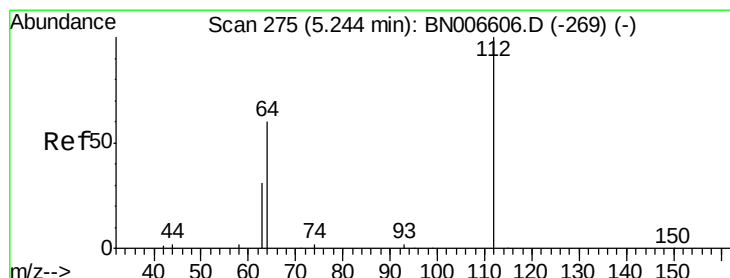
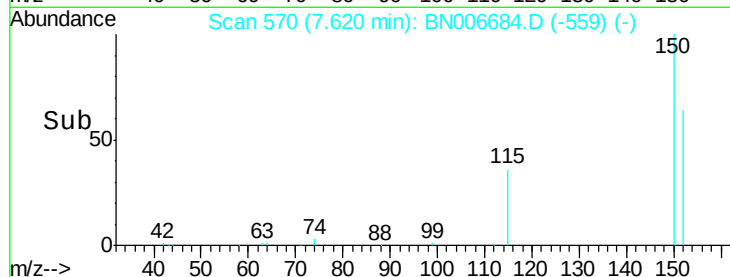
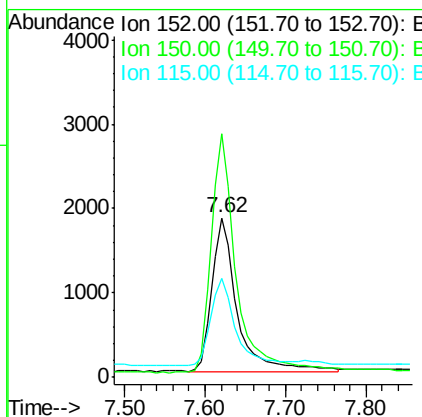
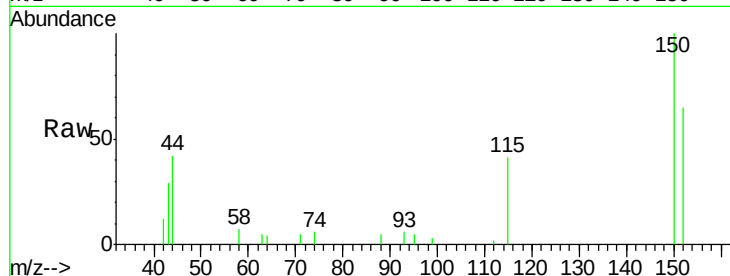
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.62 min Scan# 570
Delta R.T. -0.01 min
Lab File: BN006684.D
Acq: 02 Jul 2019 06:19

Instrument :
BNA_N
ClientSampleId :
PST-013-B211-062019

Tot Ion	Ratio	Lower	Upper
152	100		
150	153.0	122.2	183.2
115	62.1	50.0	75.0

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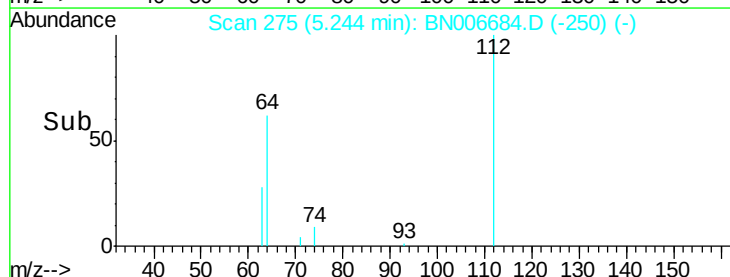
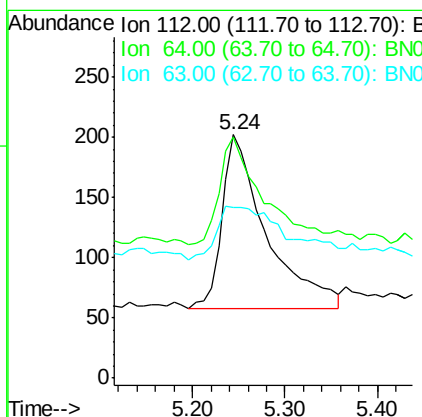
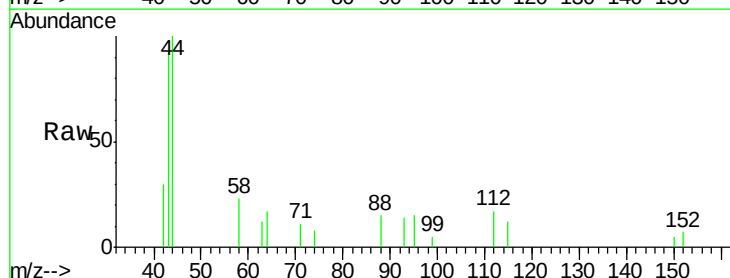
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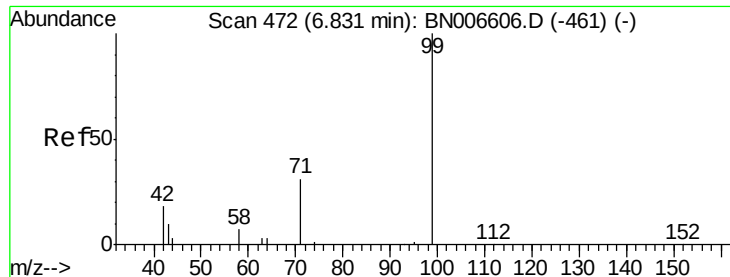


#4

2-Fluorophenol
Concen: 0.050 ng
RT: 5.24 min Scan# 275
Delta R.T. 0.00 min
Lab File: BN006684.D
Acq: 02 Jul 2019 06:19

Tgt Ion	Ratio	Lower	Upper
112	100		
64	61.8	48.9	73.3
63	50.7	24.3	36.5





#5

Phenol-d6

Concen: 0.047 ng

RT: 6.84 min Scan# 473

Delta R.T. 0.01 min

Lab File: BN006684.D

Acq: 02 Jul 2019 06:19

Instrument :

BNA_N

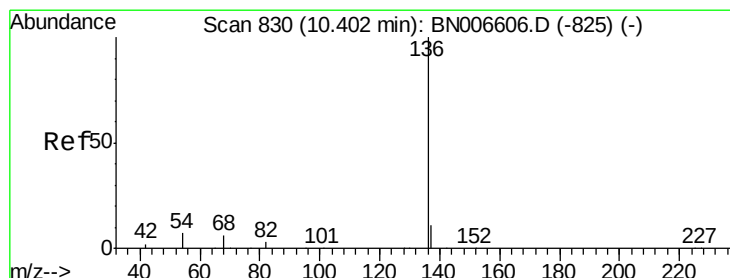
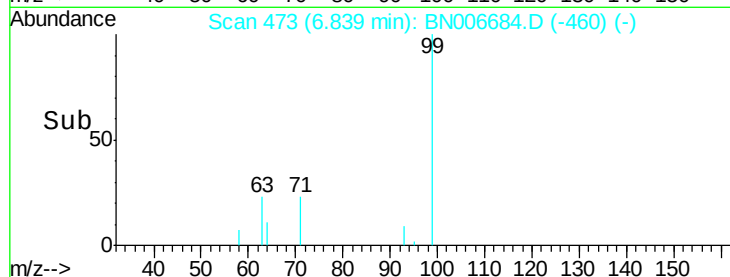
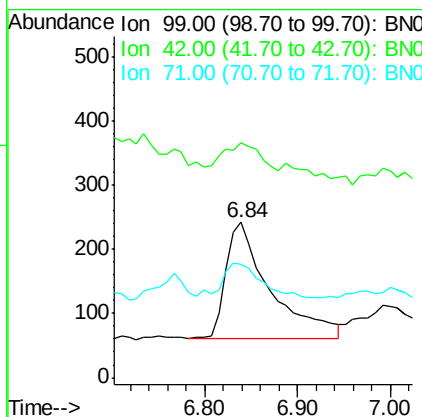
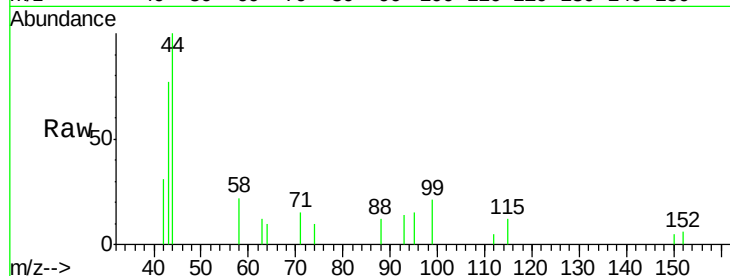
ClientSampleId :

PST-013-B211-062019

Tot Ion:	99	Resp:	596
Ion	Ratio	Lower	Upper
99	100		
42	19.0	16.4	24.6
71	26.3	26.6	40.0#

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#7

Naphthalene-d8

Concen: 0.400 ng

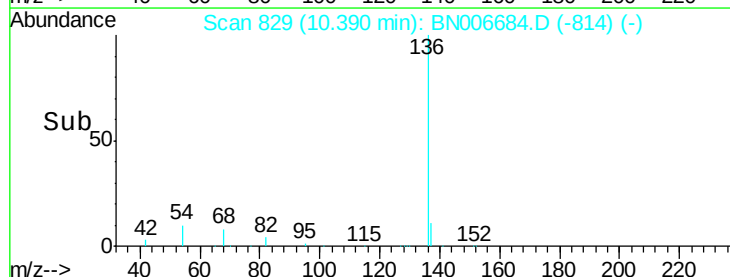
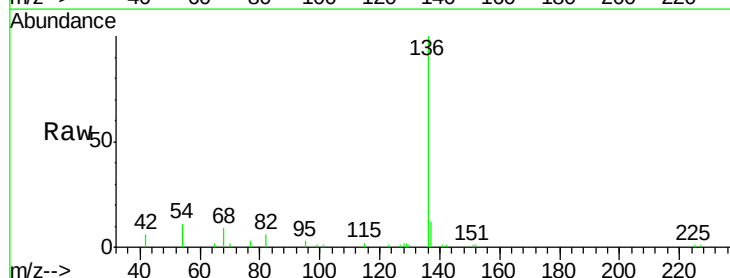
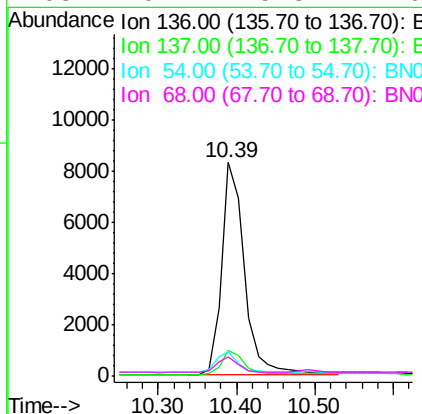
RT: 10.39 min Scan# 829

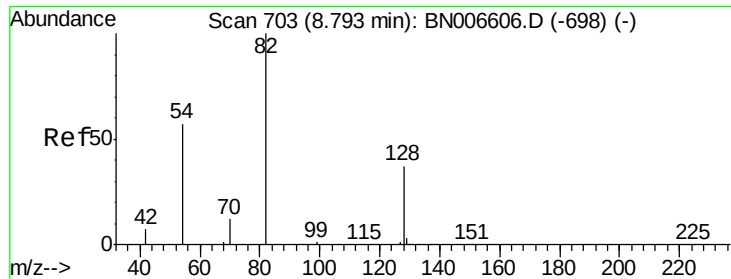
Delta R.T. -0.01 min

Lab File: BN006684.D

Acq: 02 Jul 2019 06:19

Tgt Ion:	136	Resp:	16803
Ion	Ratio	Lower	Upper
136	100		
137	11.8	9.3	13.9
54	11.3	6.7	10.1#
68	9.1	5.3	7.9#





#8

Nitrobenzene-d5

Concen: 0.043 ng

RT: 8.79 min Scan# 703

Delta R.T. 0.00 min

Lab File: BN006684.D

Acq: 02 Jul 2019 06:19

Instrument :

BNA_N

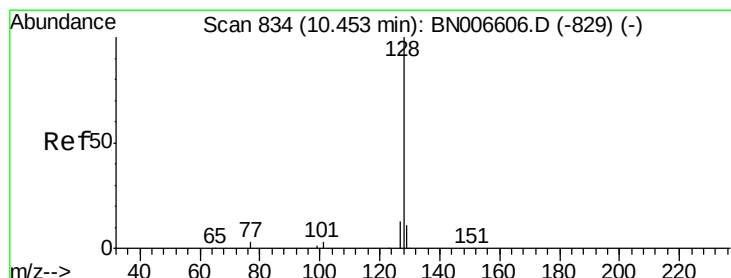
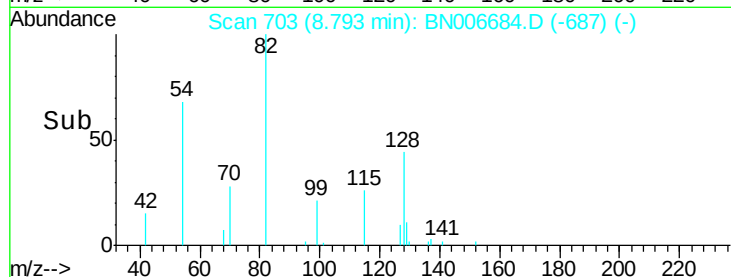
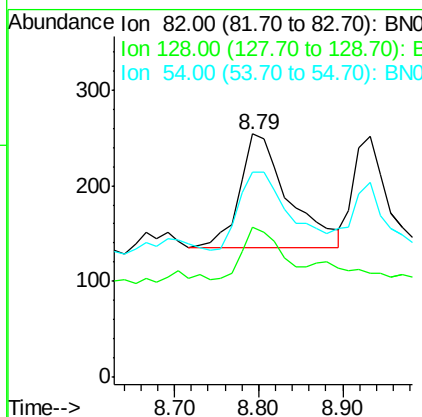
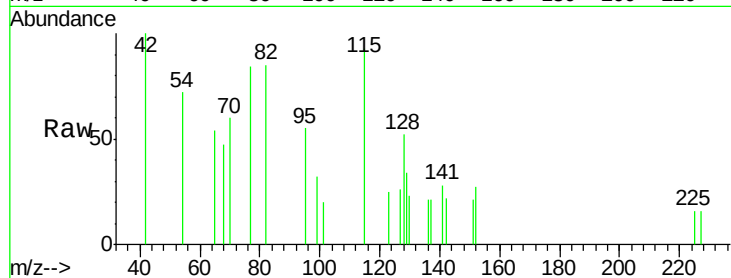
ClientSampleId :

PST-013-B211-062019

Tot Ion:	82	Resp:	481
Ion	Ratio	Lower	Upper
82	100		
128	61.4	32.6	49.0#
54	84.3	48.2	72.4#

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#9

Naphthalene

Concen: 0.761 ng

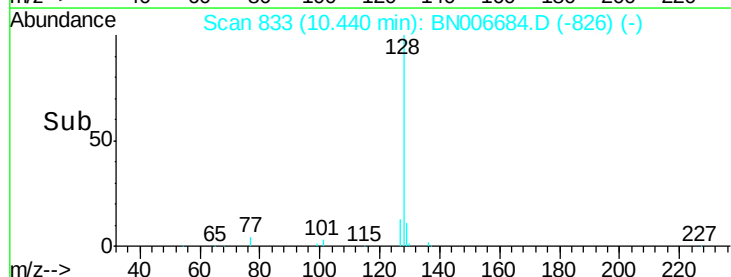
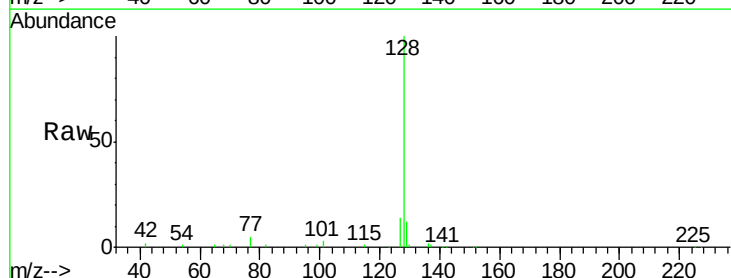
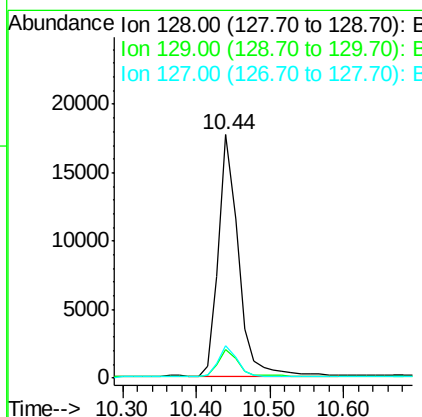
RT: 10.44 min Scan# 833

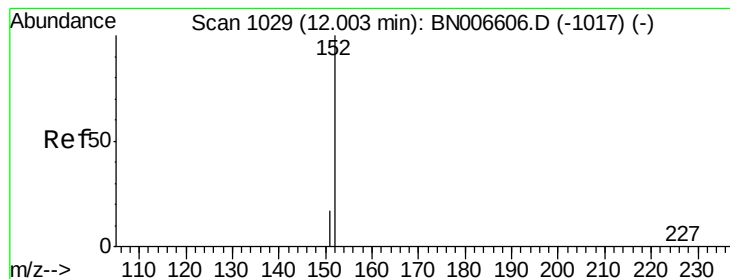
Delta R.T. -0.01 min

Lab File: BN006684.D

Acq: 02 Jul 2019 06:19

Tgt Ion:	128	Resp:	33605
Ion	Ratio	Lower	Upper
128	100		
129	11.7	9.3	13.9
127	13.5	10.8	16.2





#11

2-Methylnaphthalene-d10

Concen: 0.045 ng

RT: 11.99 min Scan# 1027

Delta R.T. -0.01 min

Lab File: BN006684.D

Acq: 02 Jul 2019 06:19

Instrument :

BNA_N

ClientSampleId :

PST-013-B211-062019

Tot Ion:152 Resp: 1186

Ion Ratio Lower Upper

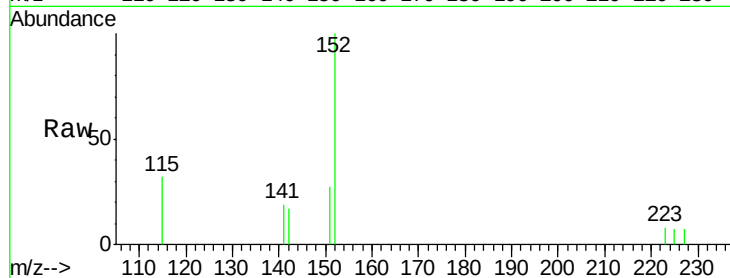
152 100

151 23.7 15.0 22.4#

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Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

11.99

800

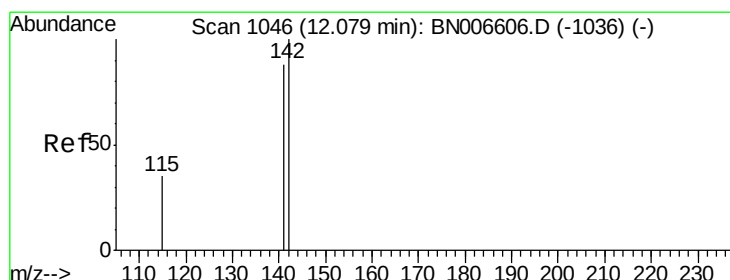
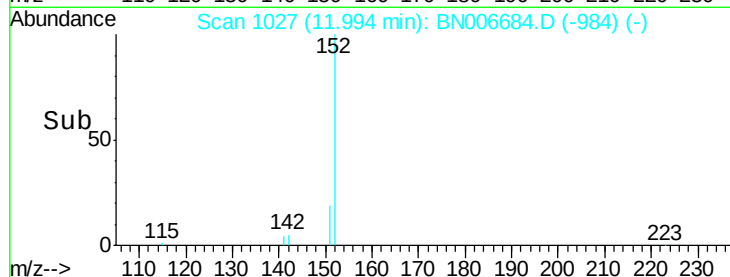
600

400

200

0

Time-->



#12

2-Methylnaphthalene

Concen: 0.555 ng

RT: 12.07 min Scan# 1044

Delta R.T. -0.01 min

Lab File: BN006684.D

Acq: 02 Jul 2019 06:19

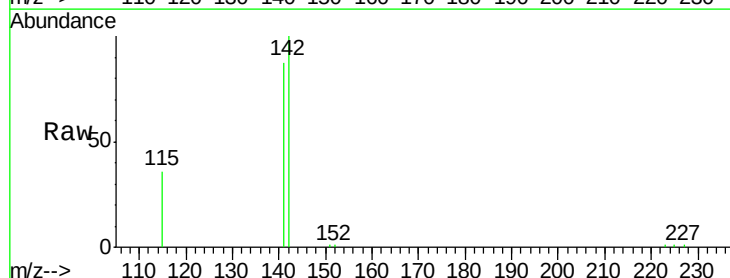
Tgt Ion:142 Resp: 16921

Ion Ratio Lower Upper

142 100

141 87.3 70.2 105.4

115 36.0 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

12.07

12000

10000

8000

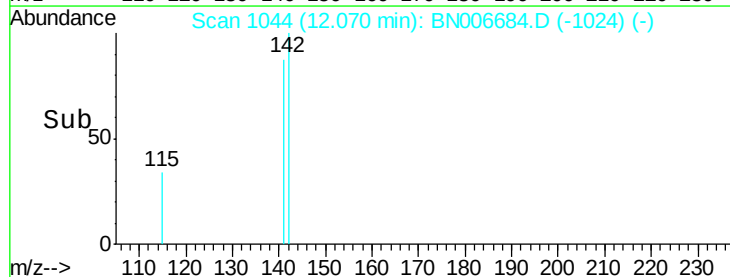
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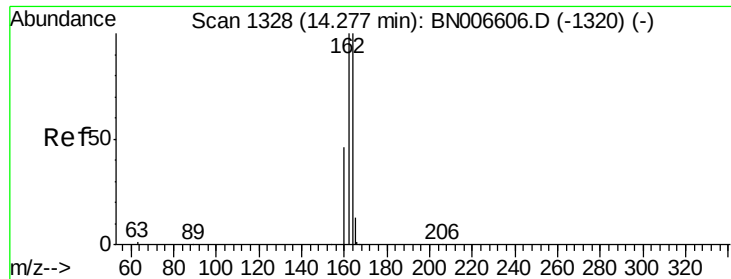
4000

2000

0

Time-->





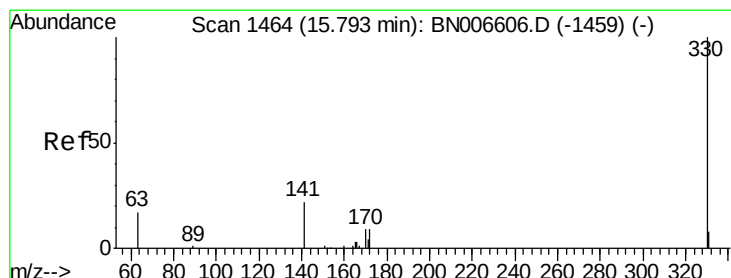
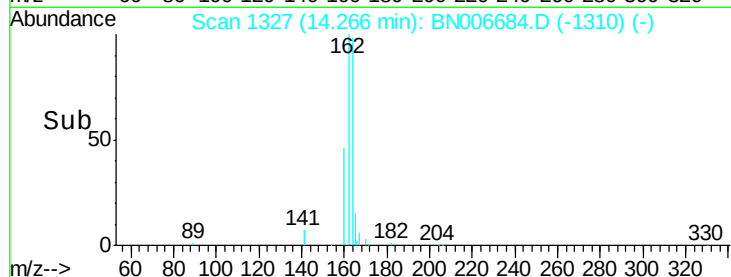
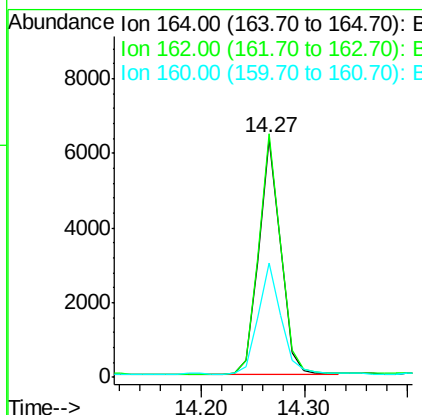
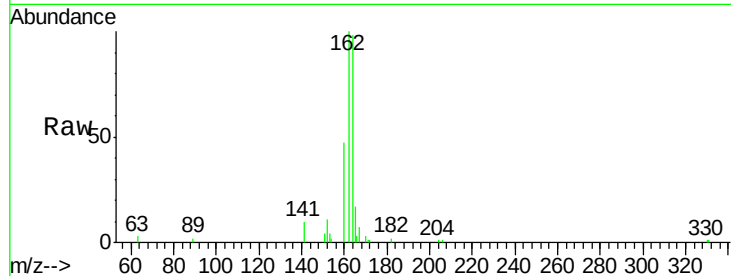
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.27 min Scan# 1327
Delta R.T. -0.01 min
Lab File: BN006684.D
Acq: 02 Jul 2019 06:19

Instrument :
BNA_N
ClientSampleId :
PST-013-B211-062019

Tot Ion	Ratio	Lower	Upper
164	100		
162	102.0	80.0	120.0
160	47.7	37.0	55.4

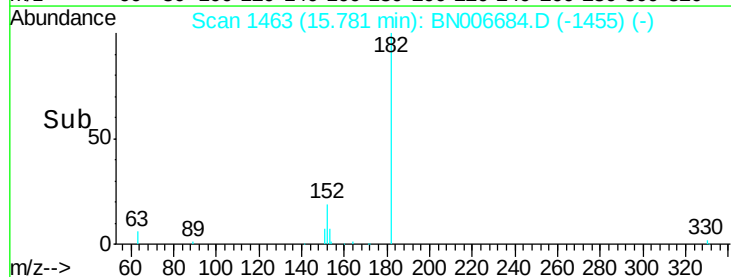
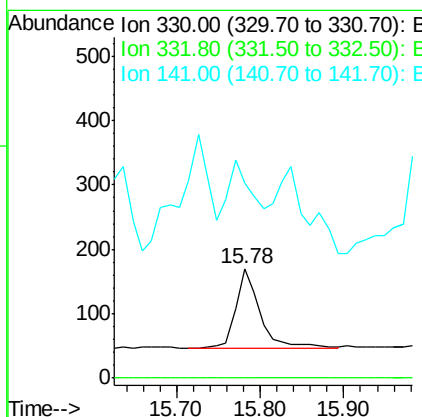
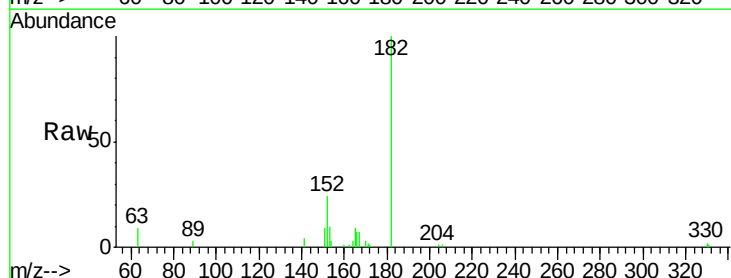
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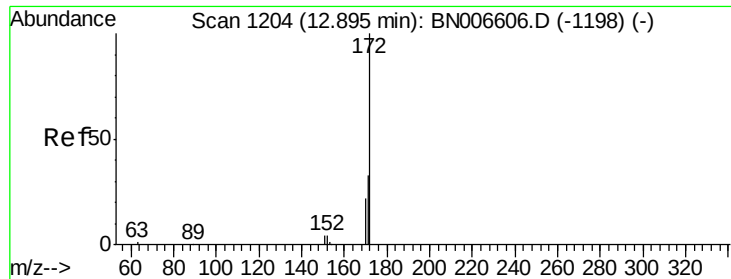
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#14
2,4,6-Tribromophenol
Concen: 0.055 ng
RT: 15.78 min Scan# 1463
Delta R.T. -0.01 min
Lab File: BN006684.D
Acq: 02 Jul 2019 06:19

Tgt Ion	Ratio	Lower	Upper
330	100		
332	0.0	0.0	0.0
141	90.2	26.5	39.7





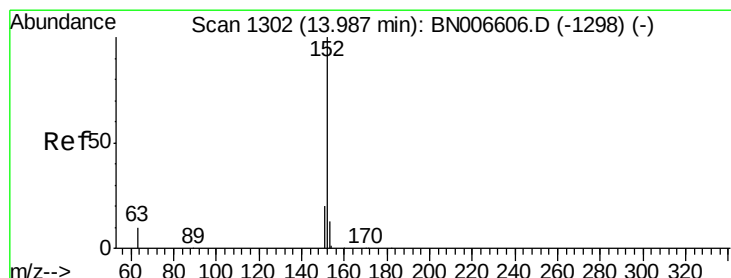
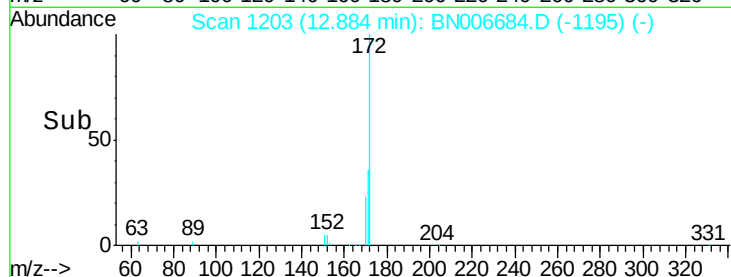
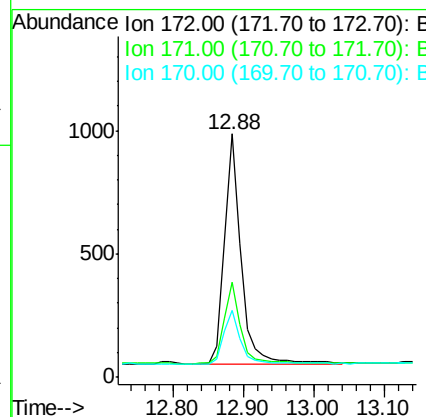
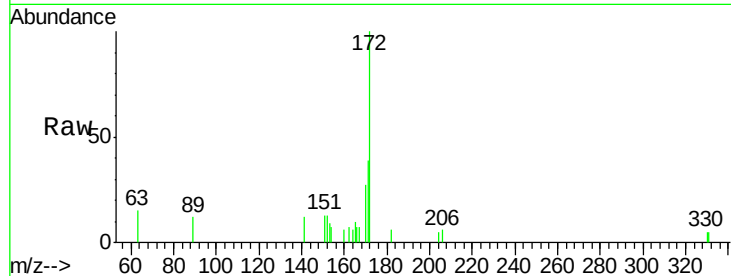
#15
2-Fluorobiphenyl
Concen: 0.045 ng
RT: 12.88 min Scan# 1203
Delta R.T. -0.01 min
Lab File: BN006684.D
Acq: 02 Jul 2019 06:19

Instrument :
BNA_N
ClientSampleId :
PST-013-B211-062019

Tot Ion	Ratio	Lower	Upper
172	100		
171	39.0	27.0	40.4
170	27.3	17.7	26.5

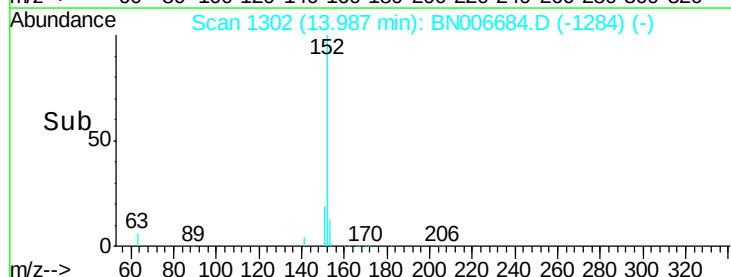
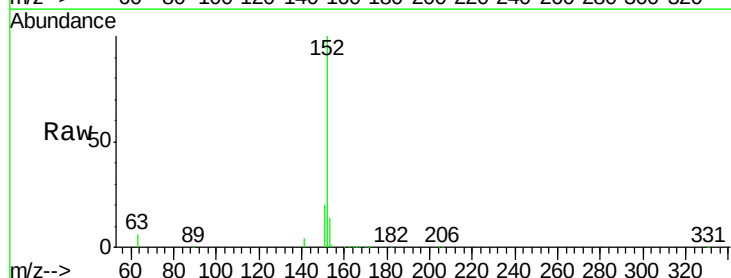
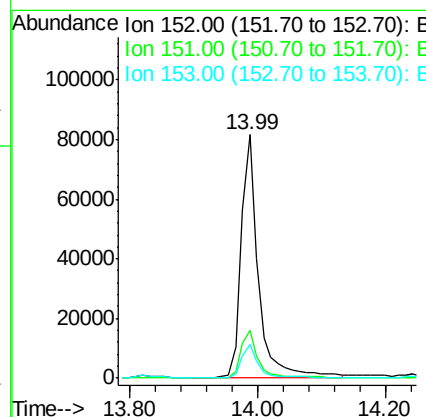
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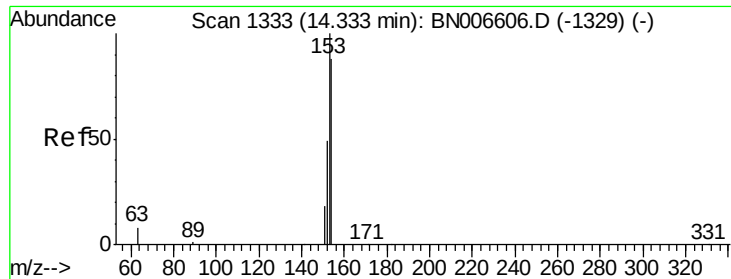
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#16
Acenaphthylene
Concen: 3.420 ng
RT: 13.99 min Scan# 1302
Delta R.T. 0.00 min
Lab File: BN006684.D
Acq: 02 Jul 2019 06:19

Tgt Ion	Ratio	Lower	Upper
152	100		
151	19.8	15.6	23.4
153	13.4	10.5	15.7





#17

Acenaphthene

Concen: 1.324 ng

RT: 14.33 min Scan# 1333

Delta R.T. 0.00 min

Lab File: BN006684.D

Acq: 02 Jul 2019 06:19

Instrument :

BNA_N

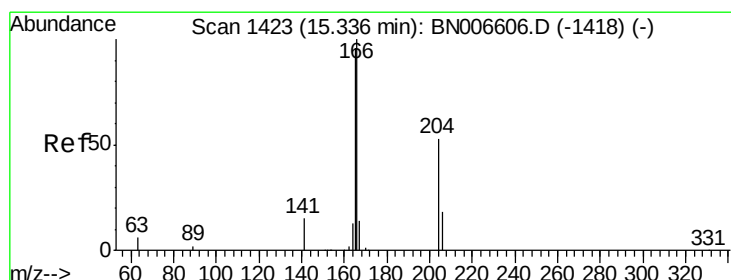
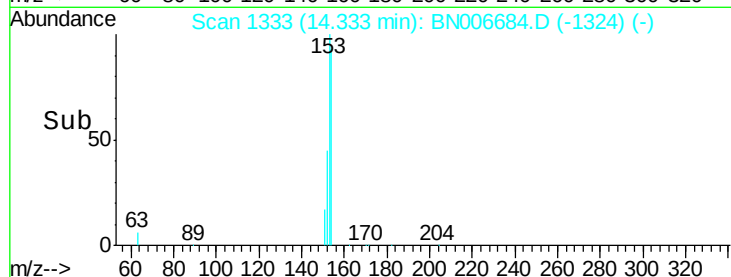
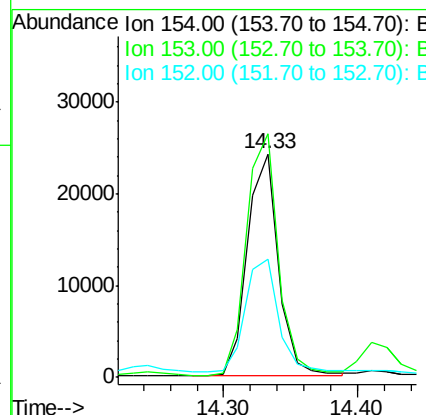
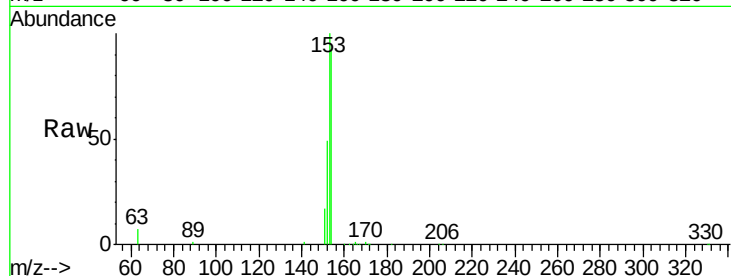
ClientSampleId :

PST-013-B211-062019

Tot Ion:	154	Resp:	39102
Ion Ratio	Lower	Upper	
154	100		
153	111.6	90.2	135.4
152	53.6	44.2	66.4

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#18

Fluorene

Concen: 1.435 ng

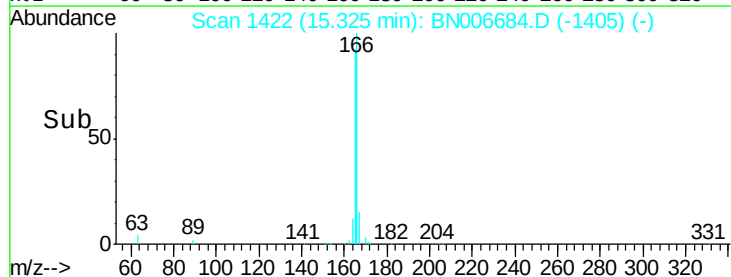
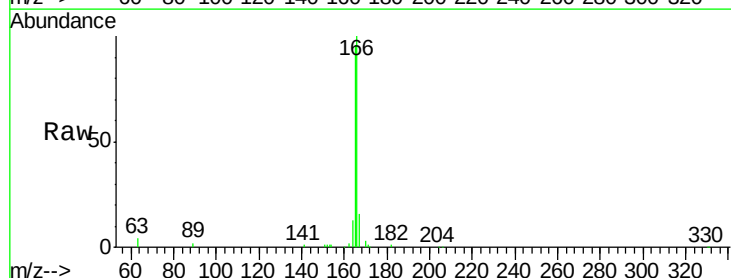
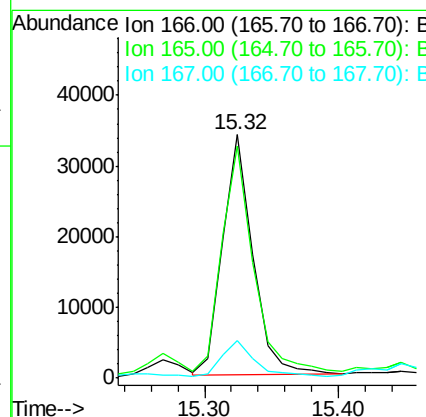
RT: 15.32 min Scan# 1422

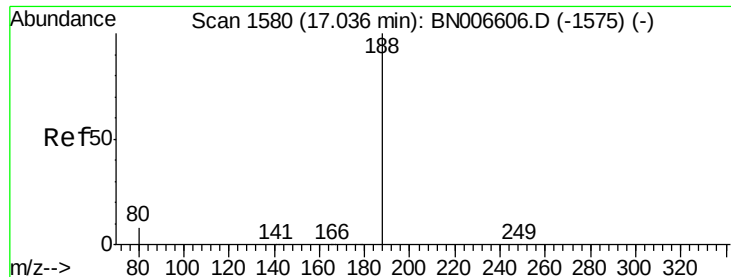
Delta R.T. -0.01 min

Lab File: BN006684.D

Acq: 02 Jul 2019 06:19

Tgt Ion:	166	Resp:	53463
Ion Ratio	Lower	Upper	
166	100		
165	98.1	78.4	117.6
167	16.2	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: BN006684.D

Acq: 02 Jul 2019 06:19

Instrument :

BNA_N

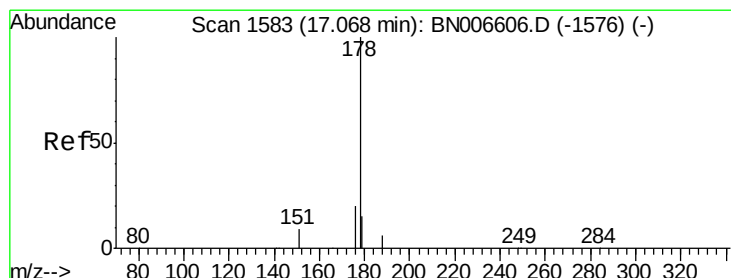
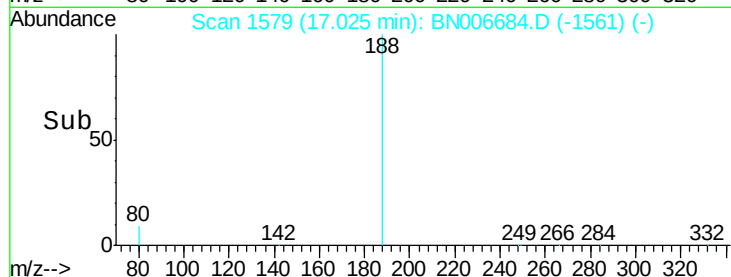
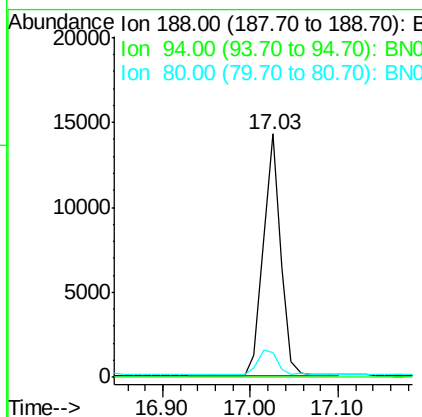
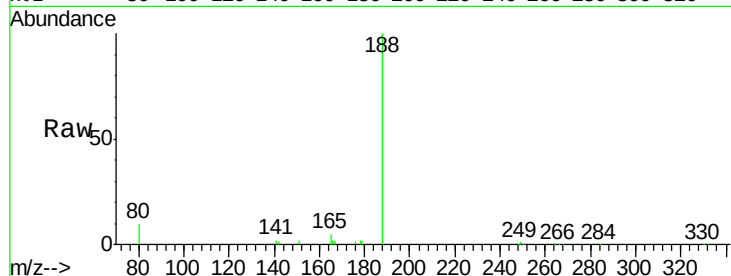
ClientSampleId :

PST-013-B211-062019

Tot Ion:	188	Resp:	20001
Ion Ratio	Lower	Upper	
188	100		
94	0.0	0.0	0.0
80	10.2	7.1	10.7

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#23

Phenanthrene

Concen: 18.088 ng

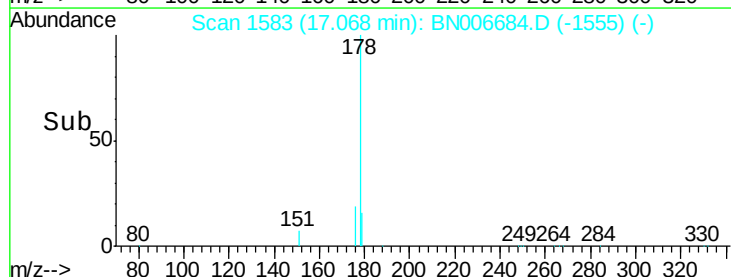
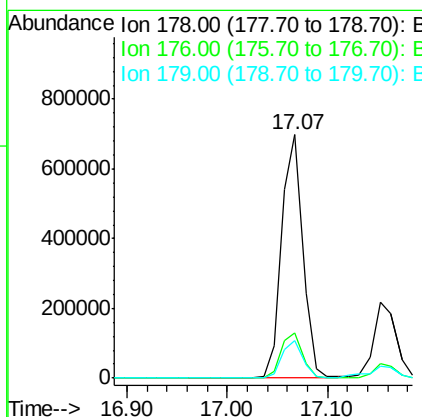
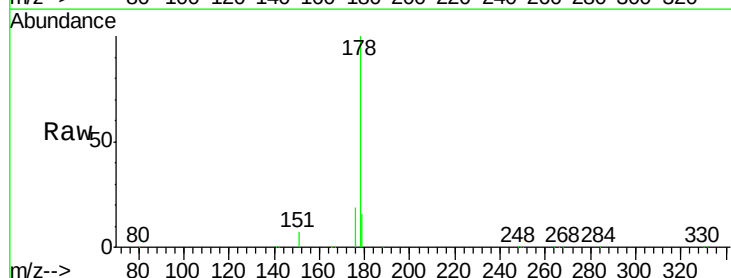
RT: 17.07 min Scan# 1583

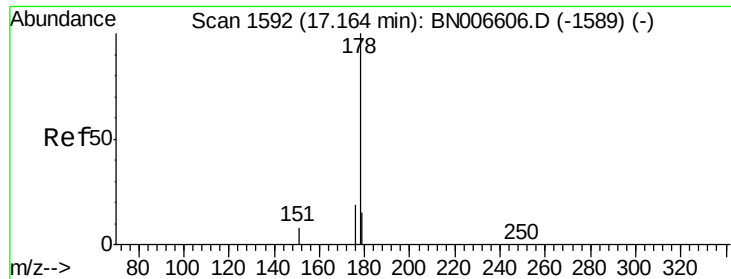
Delta R.T. 0.00 min

Lab File: BN006684.D

Acq: 02 Jul 2019 06:19

Tgt Ion:	178	Resp:	1028673
Ion Ratio	Lower	Upper	
178	100		
176	19.1	15.3	22.9
179	15.5	12.2	18.4





#24

Anthracene

Concen: 6.678 ng

RT: 17.15 min Scan# 1591

Delta R.T. -0.01 min

Lab File: BN006684.D

Acq: 02 Jul 2019 06:19

Instrument :

BNA_N

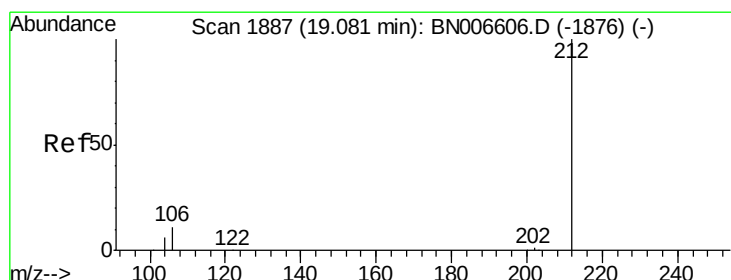
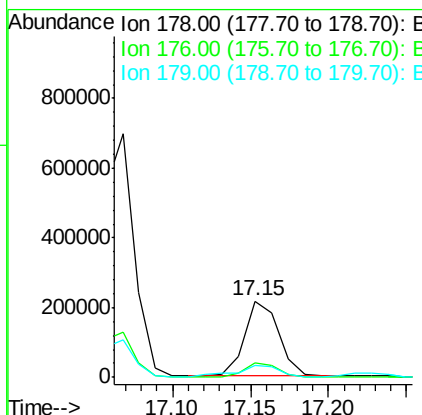
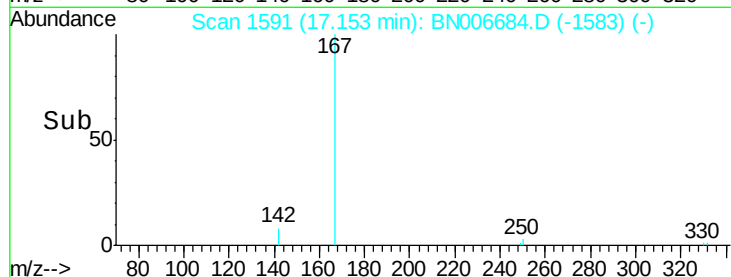
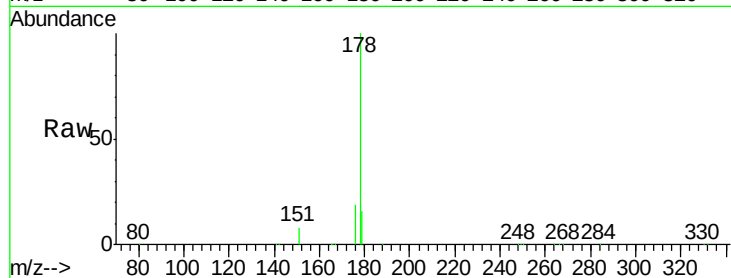
ClientSampleId :

PST-013-B211-062019

Tot Ion:	178	Resp:	329526
Ion Ratio	Lower	Upper	
178	100		
176	19.0	15.0	22.4
179	18.9	12.2	18.2

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#25

Fluoranthene-d10

Concen: 0.047 ng

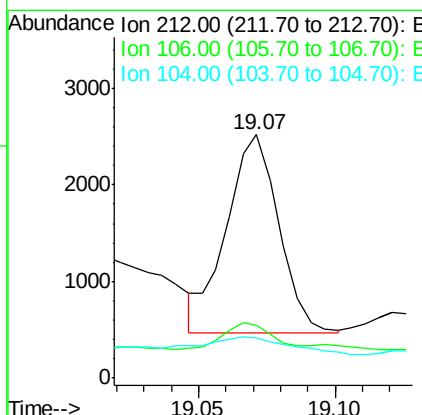
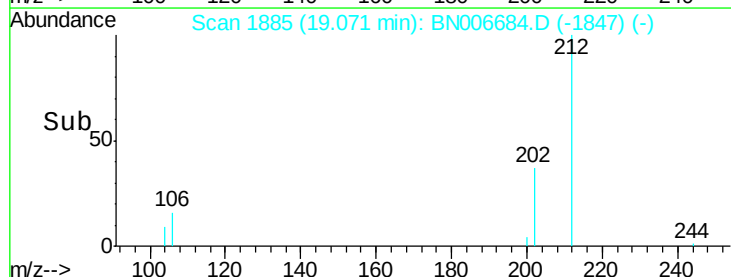
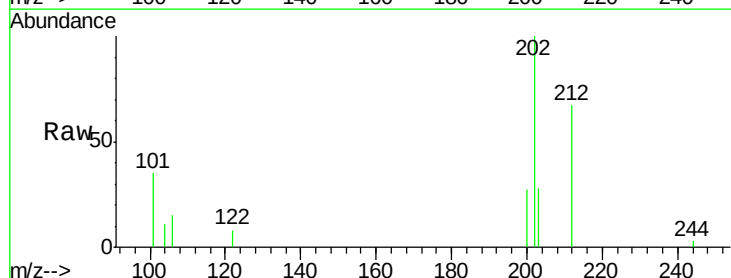
RT: 19.07 min Scan# 1885

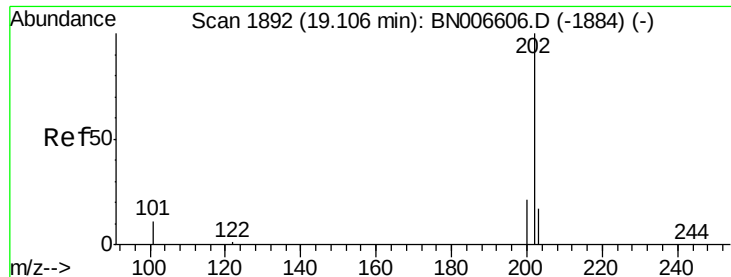
Delta R.T. -0.01 min

Lab File: BN006684.D

Acq: 02 Jul 2019 06:19

Tgt Ion:	212	Resp:	2750
Ion Ratio	Lower	Upper	
212	100		
106	12.1	10.6	15.8
104	14.5	5.8	8.6





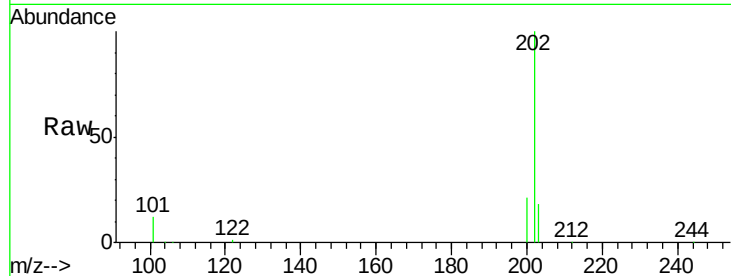
#26
Fluoranthene
Concen: 26.789 ng
RT: 19.10 min Scan# 1891
Delta R.T. -0.00 min
Lab File: BN006684.D
Acq: 02 Jul 2019 06:19

Instrument :
BNA_N
ClientSampleId :
PST-013-B211-062019

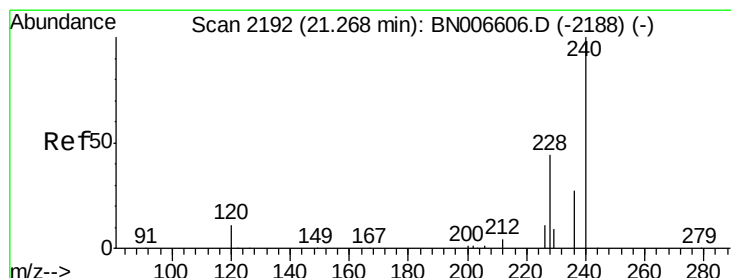
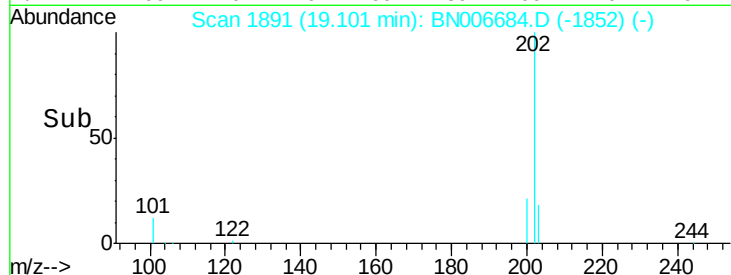
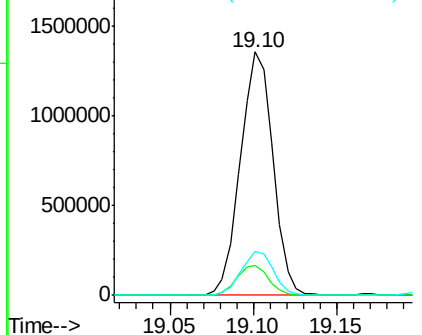
Tot Ion	Ratio	Lower	Upper
202	100		
101	12.0	8.9	13.3
203	17.8	13.6	20.4

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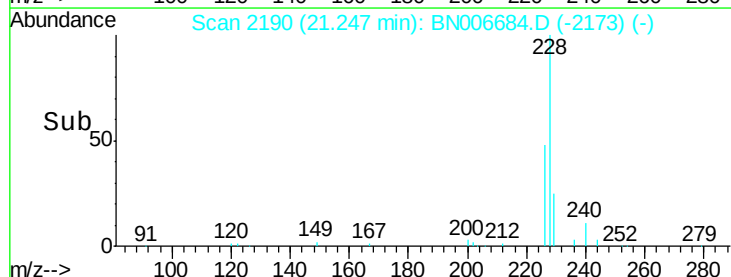
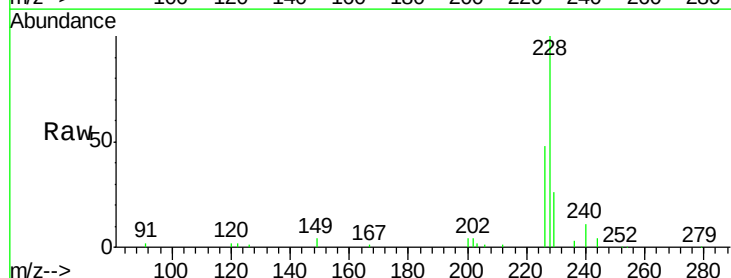
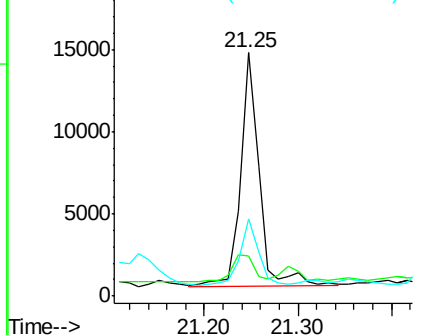
Abundance Ion 202.00 (201.70 to 202.70): E
Ion 101.00 (100.70 to 101.70): E
Ion 203.00 (202.70 to 203.70): E

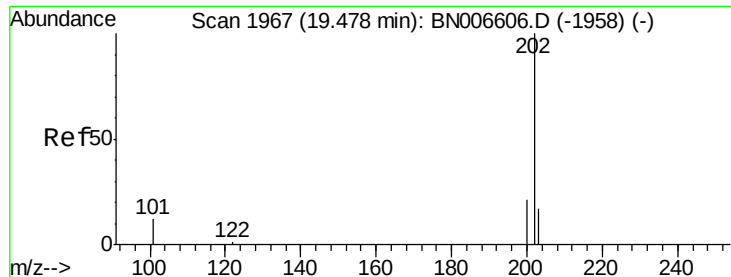


#27
Chrysene-d12
Concen: 0.400 ng
RT: 21.25 min Scan# 2190
Delta R.T. -0.02 min
Lab File: BN006684.D
Acq: 02 Jul 2019 06:19

Tgt Ion	Ratio	Lower	Upper
240	100		
120	16.4	9.9	14.9#
236	31.8	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: 25.325 ng

RT: 19.47 min Scan# 1965

Delta R.T. -0.01 min

Lab File: BN006684.D

Acq: 02 Jul 2019 06:19

Instrument :

BNA_N

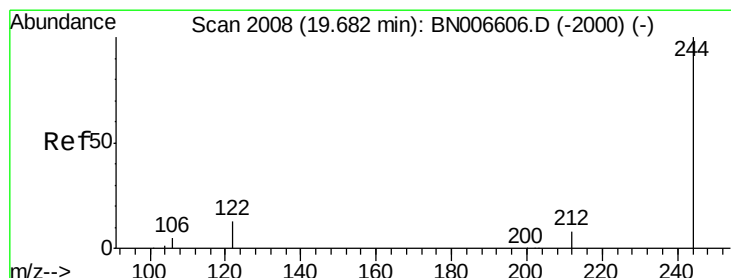
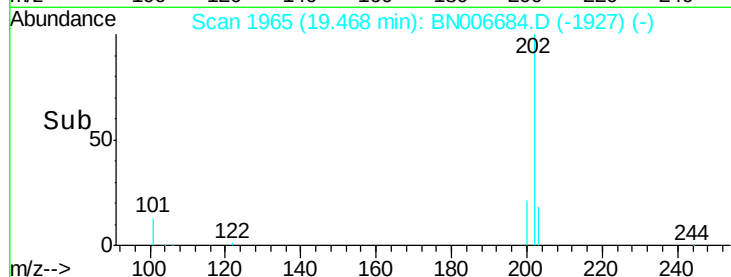
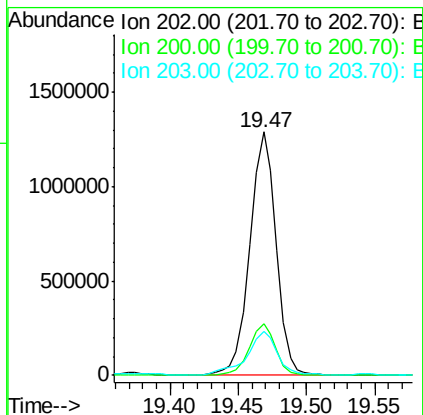
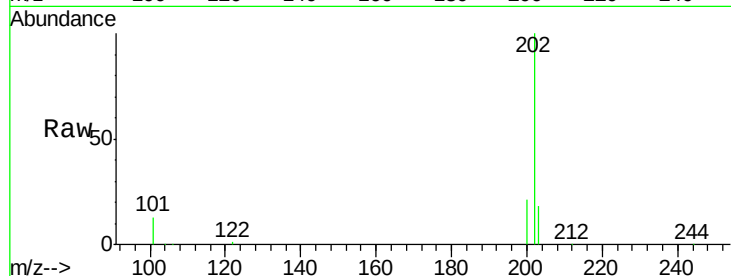
ClientSampleId :

PST-013-B211-062019

Tot Ion:	202	Resp:	1719923
Ion	Ratio	Lower	Upper
202	100		
200	21.1	16.7	25.1
203	20.9	14.1	21.1

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#29

Terphenyl-d14

Concen: 0.078 ng

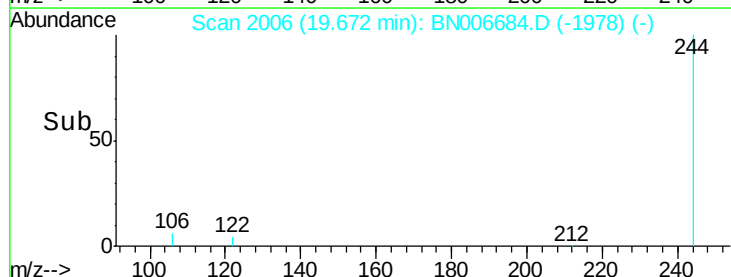
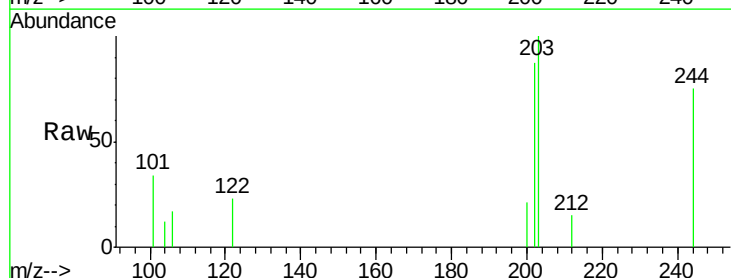
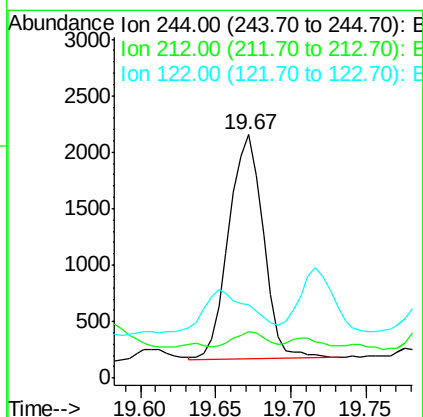
RT: 19.67 min Scan# 2006

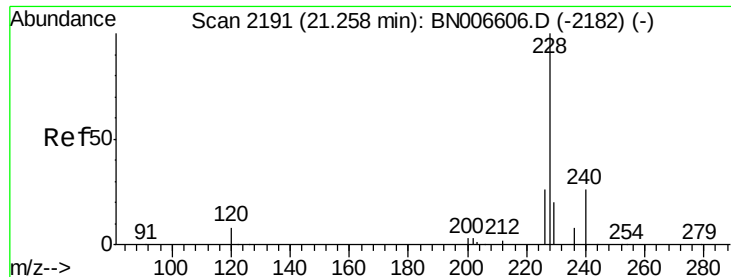
Delta R.T. -0.01 min

Lab File: BN006684.D

Acq: 02 Jul 2019 06:19

Tgt Ion:	244	Resp:	3173
Ion	Ratio	Lower	Upper
244	100		
212	19.3	6.7	10.1#
122	30.0	11.0	16.6#





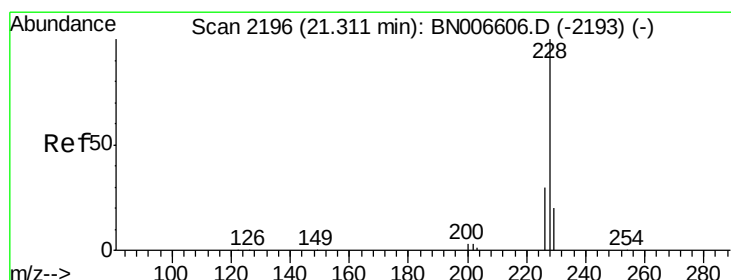
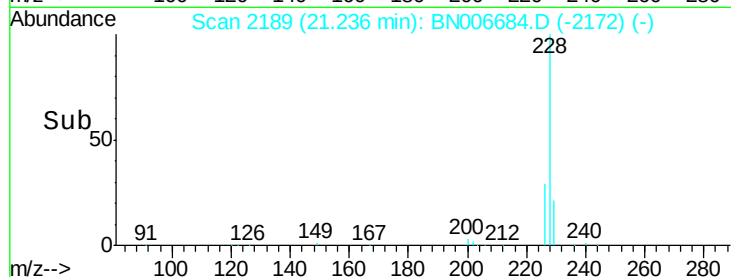
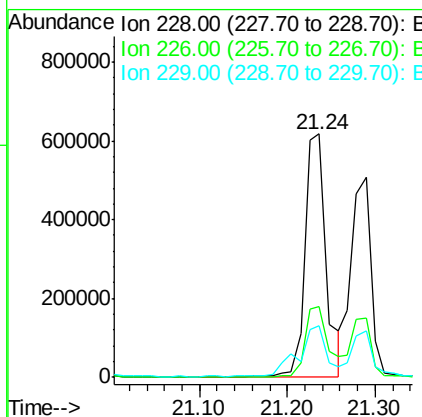
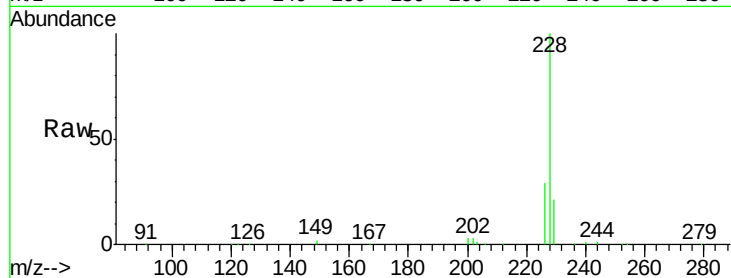
#30
Benzo(a)anthracene
Concen: 16.180 ng
RT: 21.24 min Scan# 2189
Delta R.T. -0.02 min
Lab File: BN006684.D
Acq: 02 Jul 2019 06:19

Instrument :
BNA_N
ClientSampleId :
PST-013-B211-062019

Tot Ion	Ion	Ratio	Lower	Upper
228	100			
226	28.9	21.2	31.8	
229	21.3	16.1	24.1	

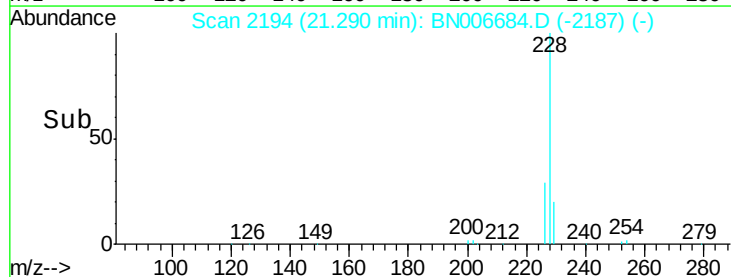
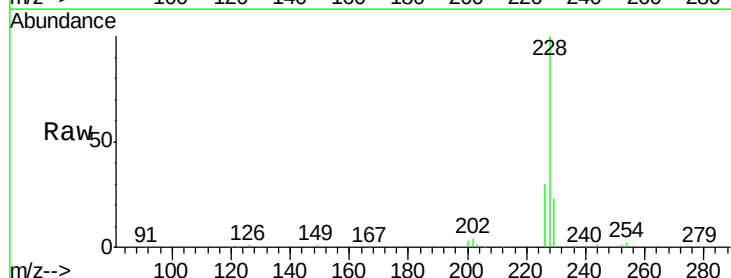
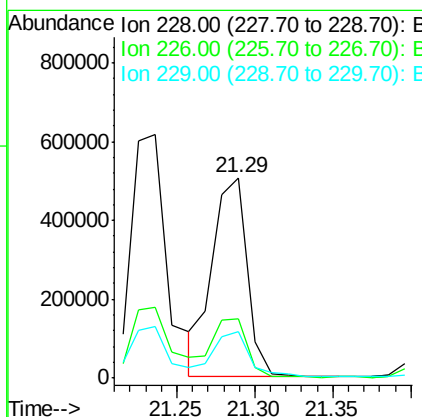
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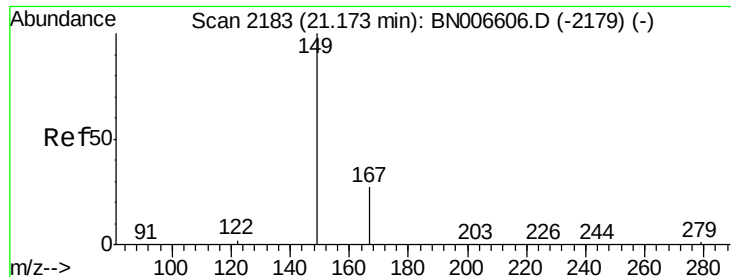
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#31
Chrysene
Concen: 11.485 ng
RT: 21.29 min Scan# 2194
Delta R.T. -0.02 min
Lab File: BN006684.D
Acq: 02 Jul 2019 06:19

Tgt Ion	Ion	Ratio	Lower	Upper
228	100			
226	29.6	23.8	35.6	
229	23.3	15.9	23.9	





#32

Bis(2-ethylhexyl)phthalate

Concen: 0.092 ng

RT: 21.15 min Scan# 2181

Delta R.T. -0.02 min

Lab File: BN006684.D

Acq: 02 Jul 2019 06:19

Instrument :

BNA_N

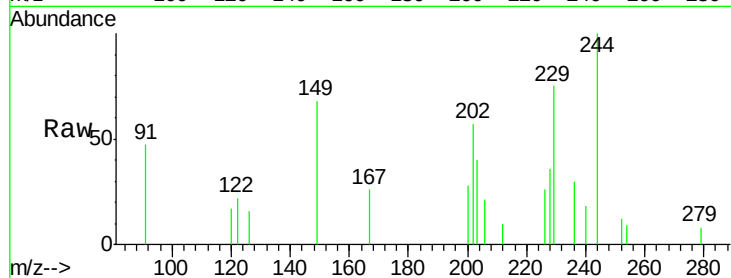
ClientSampleId :

PST-013-B211-062019

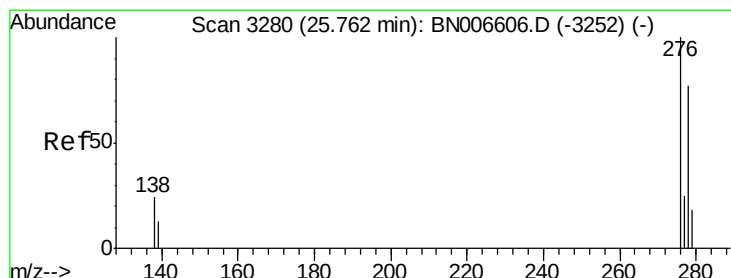
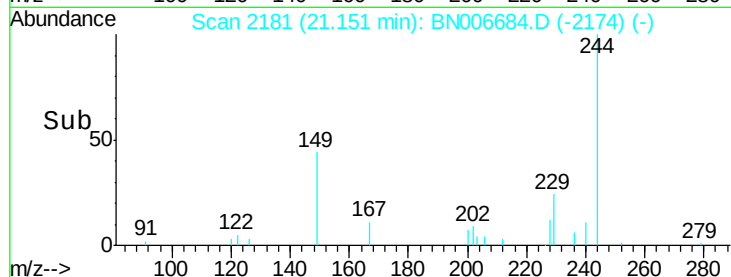
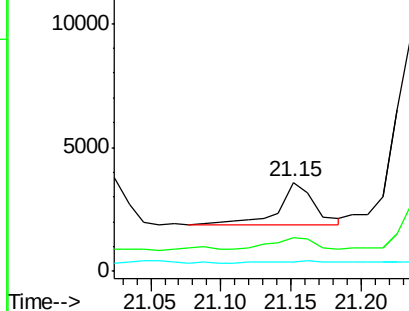
Tot Ion:	149	Resp:	2927
Ion Ratio	Lower	Upper	
149	100		
167	34.3	22.9	34.3
279	6.9	3.3	4.9#

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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: 7.657 ng

RT: 25.71 min Scan# 3265

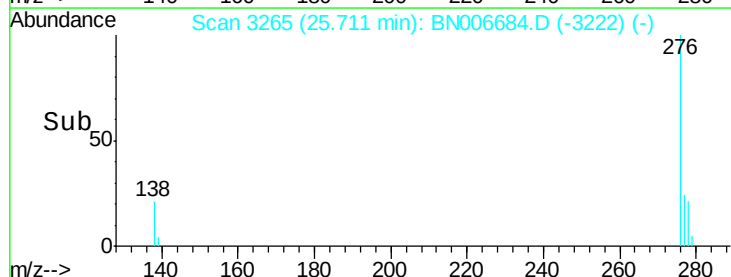
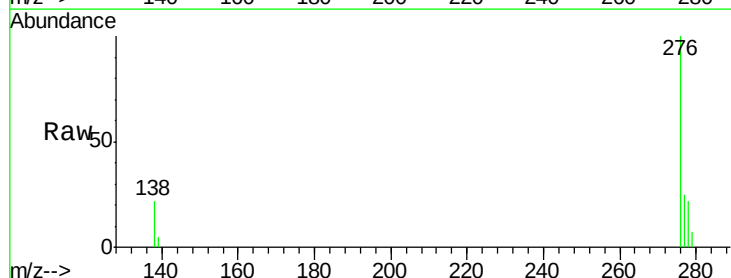
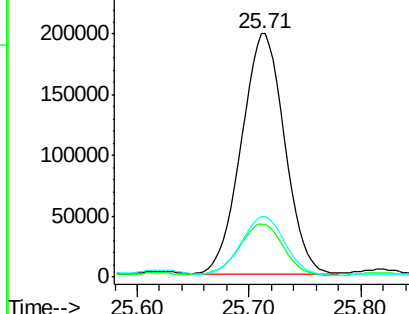
Delta R.T. -0.05 min

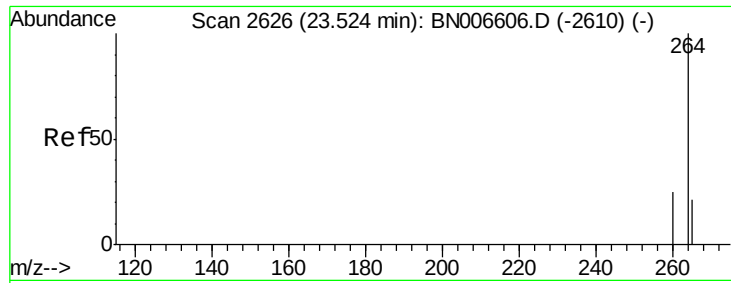
Lab File: BN006684.D

Acq: 02 Jul 2019 06:19

Tgt Ion:	276	Resp:	530145
Ion Ratio	Lower	Upper	
276	100		
138	21.8	19.3	28.9
277	24.6	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





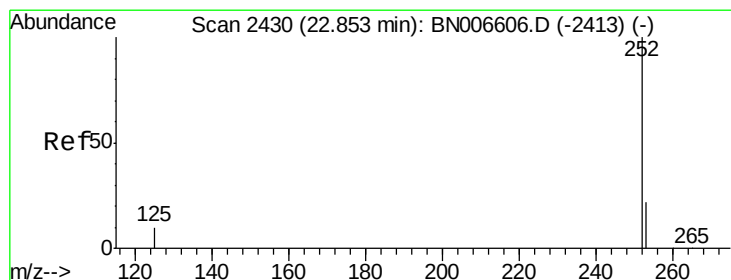
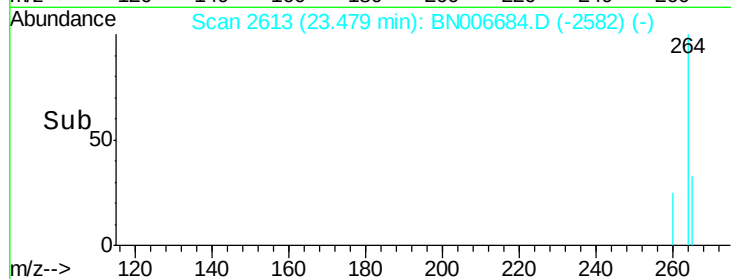
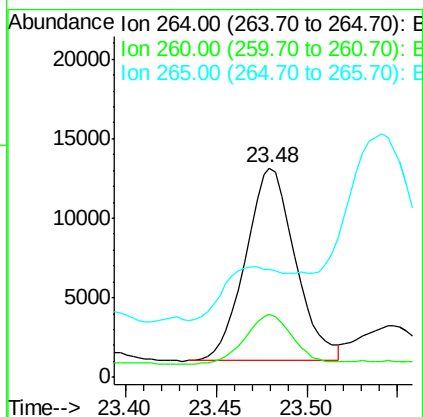
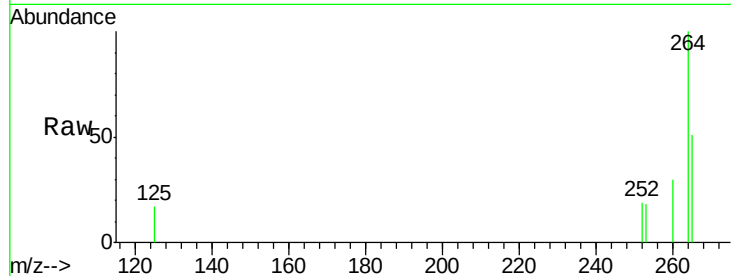
#34
Pervlene-d12
Concen: 0.400 ng
RT: 23.48 min Scan# 2613
Delta R.T. -0.04 min
Lab File: BN006684.D
Acq: 02 Jul 2019 06:19

Instrument :
BNA_N
ClientSampleId :
PST-013-B211-062019

Tot Ion	Ratio	Lower	Upper
264	100		
260	30.2	20.2	30.2
265	51.3	23.3	34.9#

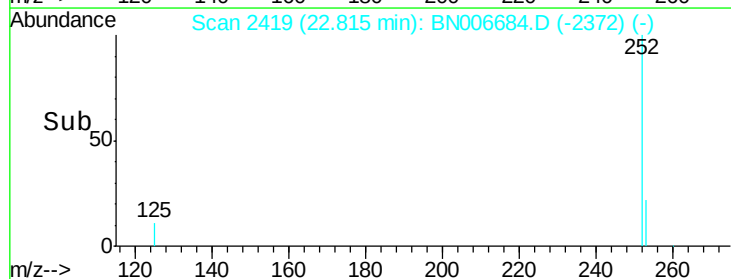
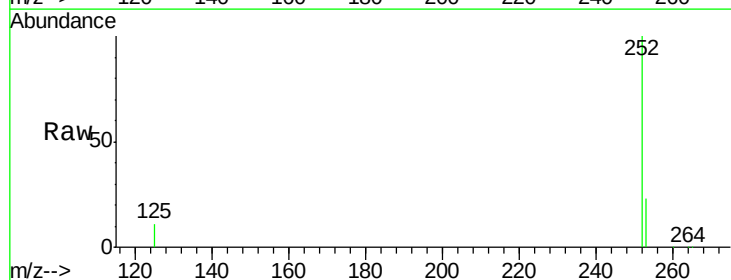
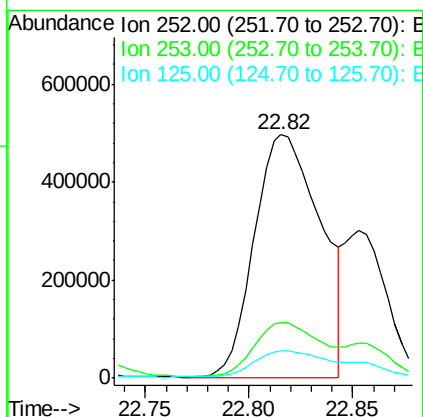
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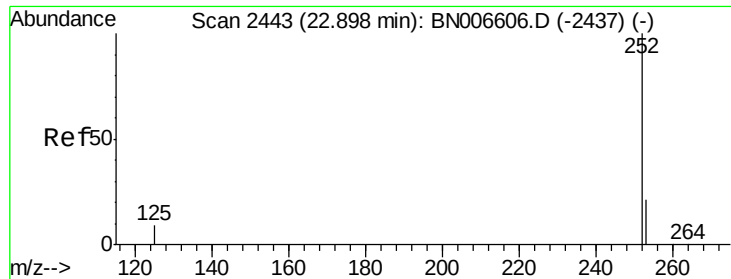
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#35
Benzo(b)fluoranthene
Concen: 13.943 ng
RT: 22.82 min Scan# 2419
Delta R.T. -0.04 min
Lab File: BN006684.D
Acq: 02 Jul 2019 06:19

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.9	18.4	27.6
125	11.1	8.7	13.1





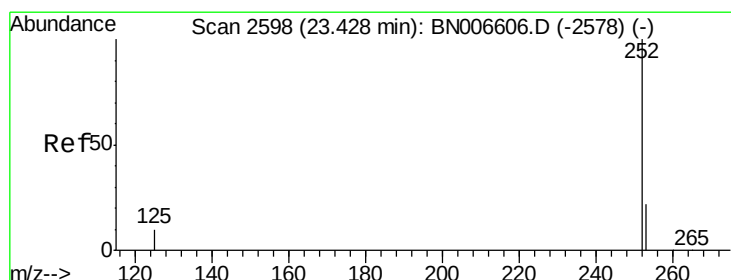
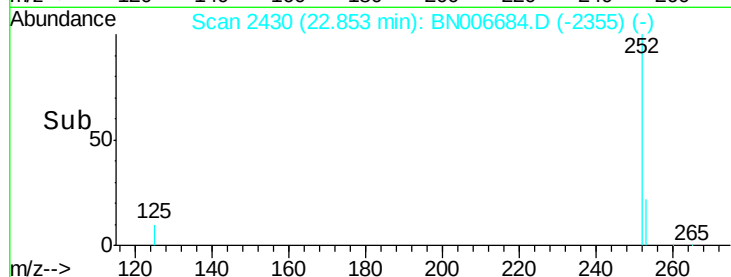
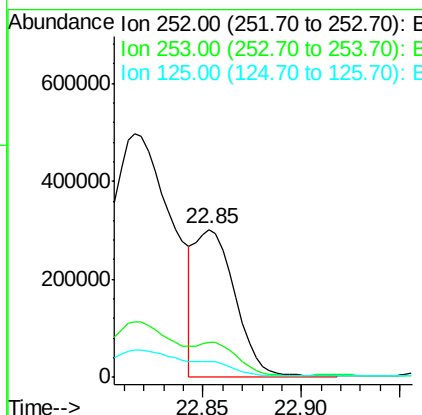
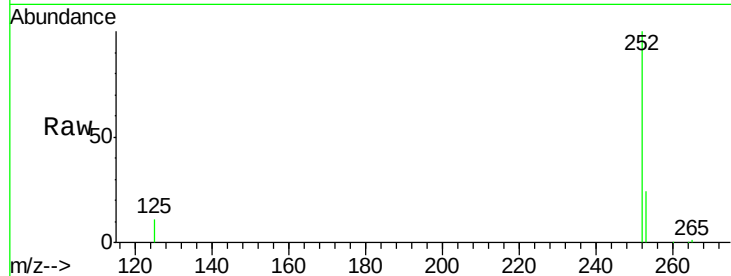
#36
Benzo(k)fluoranthene
Concen: 5.171 ng m
RT: 22.85 min Scan# 2430
Delta R.T. -0.04 min
Lab File: BN006684.D
Acq: 02 Jul 2019 06:19

Instrument :
BNA_N
ClientSampleId :
PST-013-B211-062019

Tot Ion	Ratio	Lower	Upper
252	100		
253	23.7	18.3	27.5
125	10.9	8.4	12.6

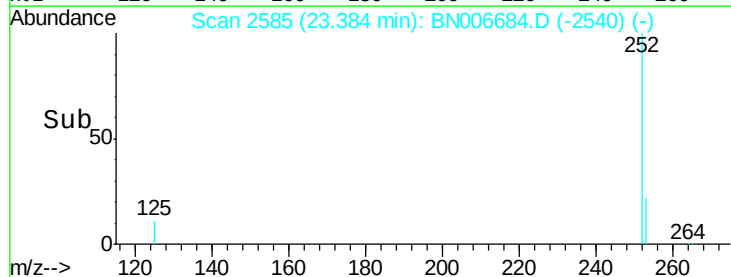
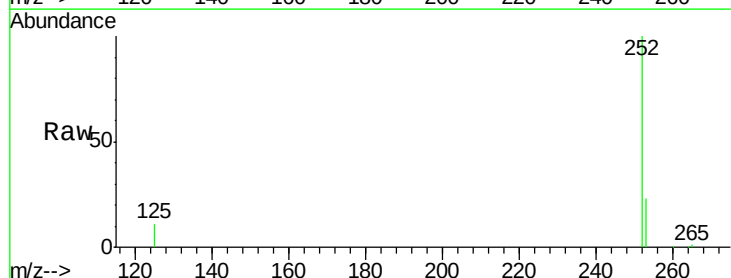
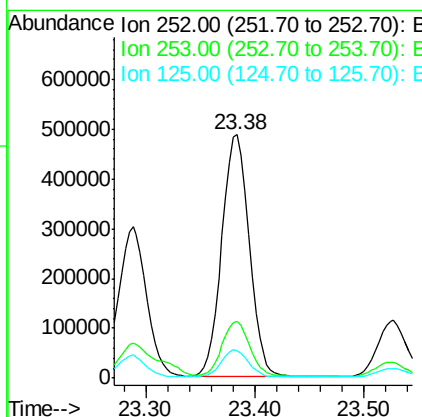
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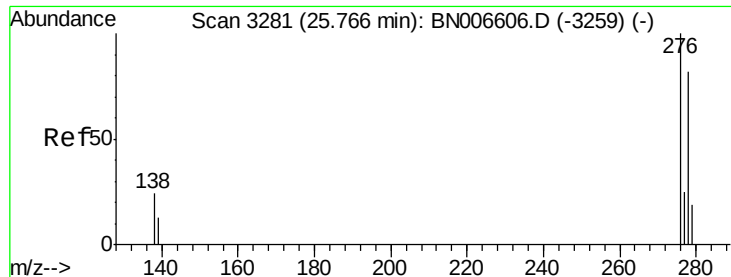
mohammad
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#37
Benzo(a)pyrene
Concen: 11.578 ng
RT: 23.38 min Scan# 2585
Delta R.T. -0.04 min
Lab File: BN006684.D
Acq: 02 Jul 2019 06:19

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.2	18.8	28.2
125	11.5	9.4	14.2





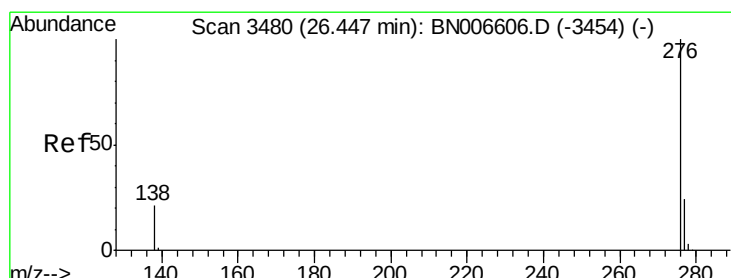
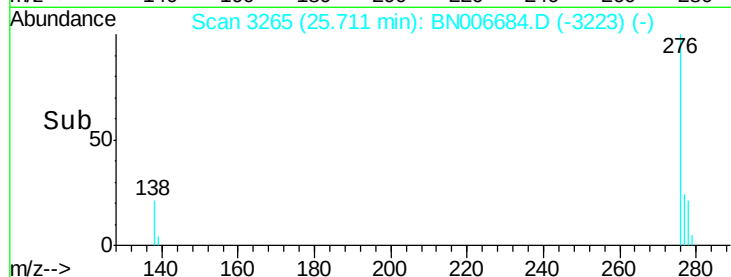
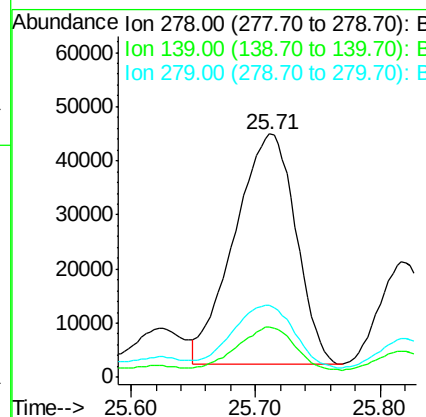
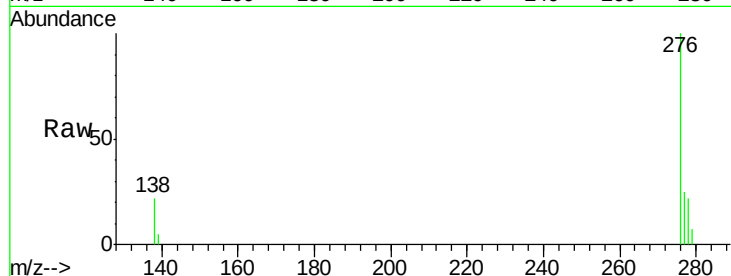
#38
Dibenzo(a,h)anthracene
Concen: 2.270 ng
RT: 25.71 min Scan# 3265
Delta R.T. -0.05 min
Lab File: BN006684.D
Acq: 02 Jul 2019 06:19

Instrument :
BNA_N
ClientSampleId :
PST-013-B211-062019

Tot Ion	Ratio	Lower	Upper
278	100		
139	20.6	13.5	20.3#
279	29.5	19.4	29.2#

Manual Integrations
APPROVED

mohammad
7/2/2019 2:53:06 PM



#39
Benzo(g,h,i)perylene
Concen: 8.080 ng
RT: 26.40 min Scan# 3465
Delta R.T. -0.05 min
Lab File: BN006684.D
Acq: 02 Jul 2019 06:19

Tgt Ion	Ratio	Lower	Upper
276	100		
277	24.4	19.6	29.4
138	22.4	17.7	26.5

