

Data File : BN007203.D
Acq On : 15 Aug 2019 19:09
Operator : HP/JU
Sample : K4239-15 5X
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
PST-034-B232-080519

Manual Integrations
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Quant Time: Aug 16 07:22:14 2019
Quant Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\8270-SIM-BN081019.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Aug 13 12:12:02 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.43	152	7420	0.40	ng	0.00
6) Naphthalene-d8	10.19	136	29267	0.40	ng	0.00
12) Acenaphthene-d10	14.07	164	16656	0.40	ng	-0.01
18) Phenanthrene-d10	16.82	188	39410	0.40	ng	0.00
26) Chrysene-d12	21.03	240	38932	0.40	ng	-0.02
32) Perylene-d12	23.15	264	43089	0.40	ng	-0.02

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
3) 2-Fluorophenol	5.06	112	858	0.05	ng	0.00
4) Phenol-d6	6.61	99	1179	0.05	ng	0.00
7) Nitrobenzene-d5	8.55	82	899	0.04	ng	-0.01
10) 2-Methylnaphthalene-d10	11.79	152	1923	0.04	ng	0.00
13) 2,4,6-Tribromophenol	15.57	330	314	0.04	ng	0.00
14) 2-Fluorobiphenyl	12.71	172	529	0.02	ng	0.00
24) Fluoranthene-d10	18.86	212	5539	0.04	ng	-0.01
28) Terphenyl-d14	19.48	244	3646	0.03	ng	-0.02

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
8) Naphthalene	10.22	128	3699	0.045	ng	# 92
11) 2-Methylnaphthalene	11.86	142	2984	0.051	ng	# 95
15) Acenaphthylene	13.79	152	27330	0.314	ng	99
16) Acenaphthene	14.13	154	4563	0.082	ng	96
17) Fluorene	15.12	166	9396	0.113	ng	87
22) Phenanthrene	16.86	178	240587	2.037	ng	100
23) Anthracene	16.95	178	35998	0.334	ng	98
25) Fluoranthene	18.89	202	375327	2.484	ng	99
27) Pyrene	19.26	202	576595	4.223	ng	97
29) Benzo(a)anthracene	21.02	228	275221	1.933	ng	95
30) Chrysene	21.08	228	302022	2.183	ng	98
31) Indeno(1,2,3-cd)pyrene	25.23	276	116728	0.766	ng	99
33) Benzo(b)fluoranthene	22.53	252	252488	1.709	ng	100
34) Benzo(k)fluoranthene	22.57	252	72746m	0.499	ng	
35) Benzo(a)pyrene	23.06	252	206688	1.543	ng	99
36) Dibenzo(a,h)anthracene	25.24	278	36583	0.274	ng	# 88
37) Benzo(g,h,i)perylene	25.85	276	135438	0.985	ng	99

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

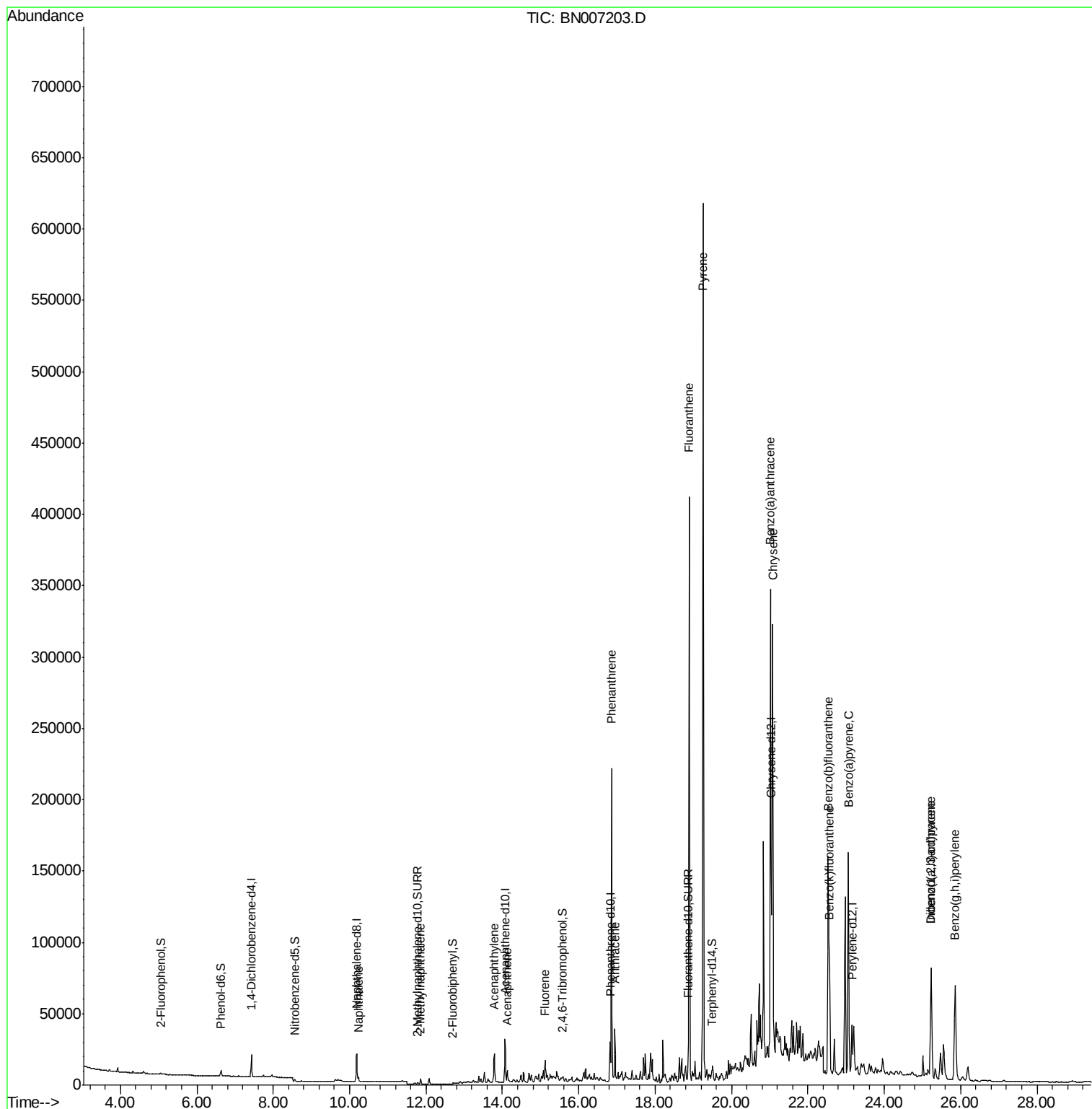
Data File : BN007203.D
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ALS Vial : 5 Sample Multiplier: 1

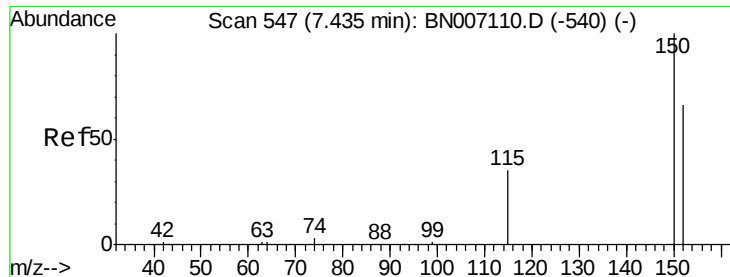
Instrument :
BNA_N
ClientSampleId :
PST-034-B232-080519

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Quant Time: Aug 16 07:22:14 2019
Quant Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\8270-SIM-BN081019.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
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#1

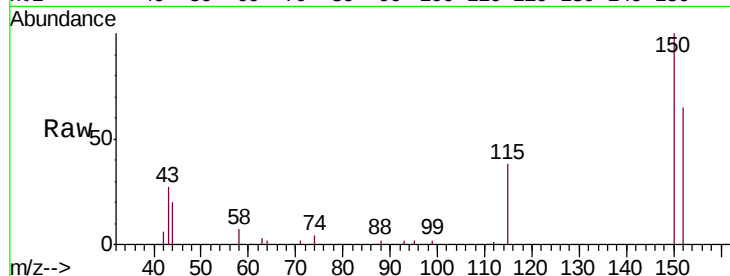
1,4-Dichlorobenzene-d4
 Concen: 0.400 ng
 RT: 7.43 min Scan# 546
 Delta R.T. -0.01 min
 Lab File: BN007203.D
 Acq: 15 Aug 2019 19:09

Instrument :
 BNA_N
 ClientSampleId :
 PST-034-B232-080519

Tgt Ion	Ratio	Lower	Upper
152	100		
150	153.7	121.7	182.5
115	58.7	46.2	69.4

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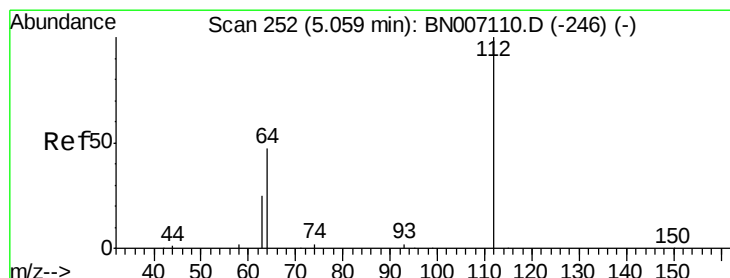
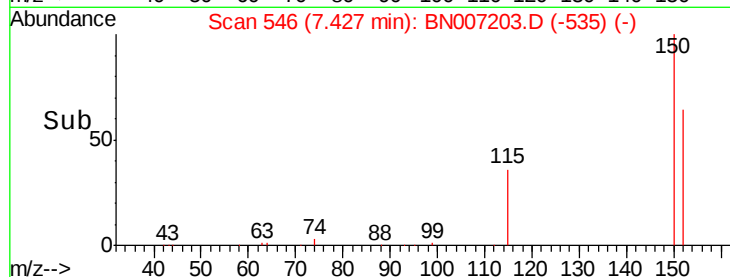
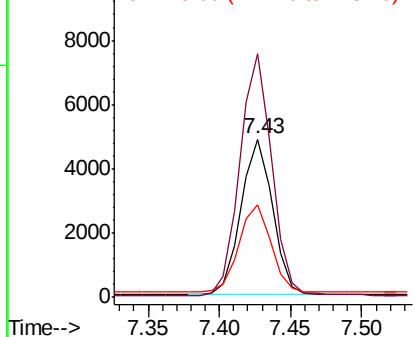


Abundance

Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

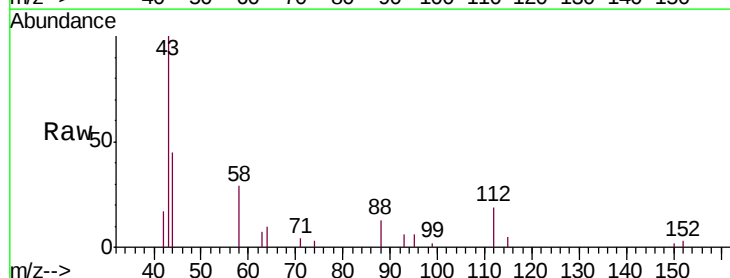
Ion 115.00 (114.70 to 115.70): E



#3

2-Fluorophenol
 Concen: 0.048 ng
 RT: 5.06 min Scan# 252
 Delta R.T. -0.00 min
 Lab File: BN007203.D
 Acq: 15 Aug 2019 19:09

Tgt Ion	Ratio	Lower	Upper
112	100		
64	54.2	42.6	63.8
63	29.4	22.2	33.2

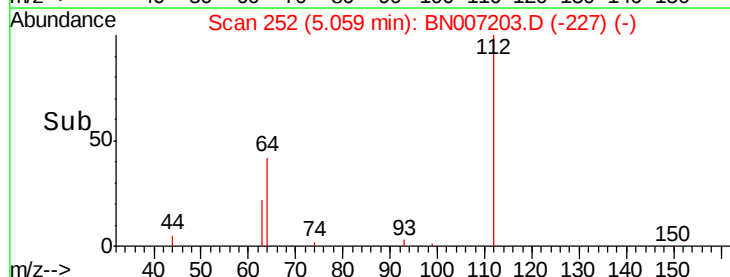
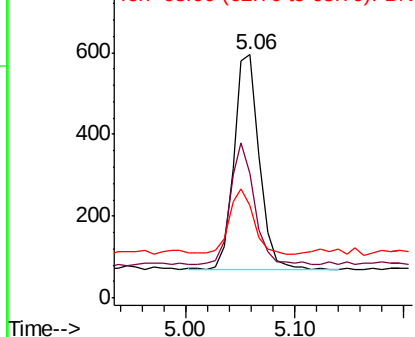


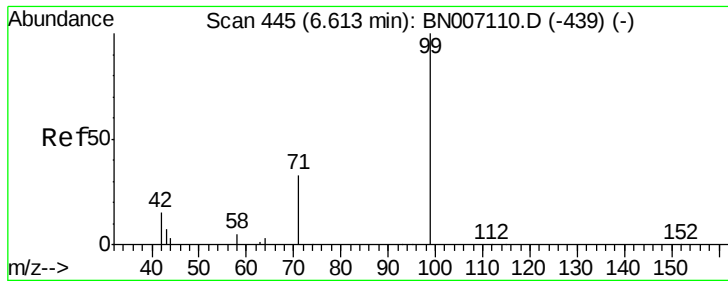
Abundance

Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BNC

Ion 63.00 (62.70 to 63.70): BNC





#4

Phenol-d6

Concen: 0.053 ng

RT: 6.61 min Scan# 445

Delta R.T. -0.00 min

Lab File: BN007203.D

Acq: 15 Aug 2019 19:09

Instrument :

BNA_N

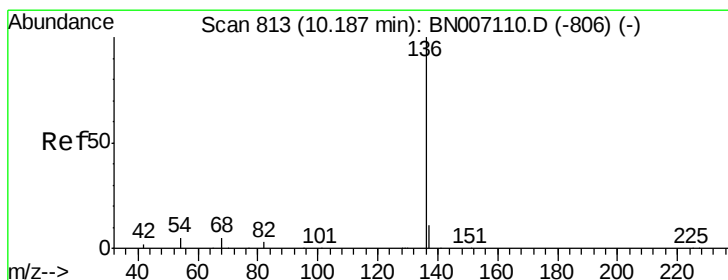
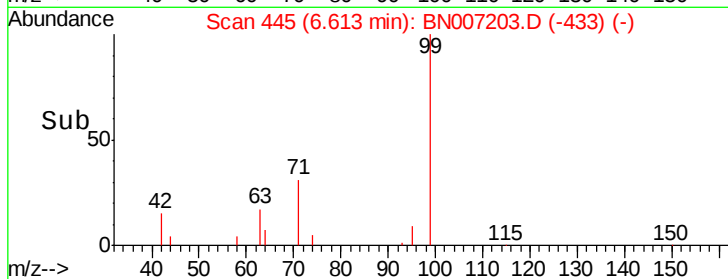
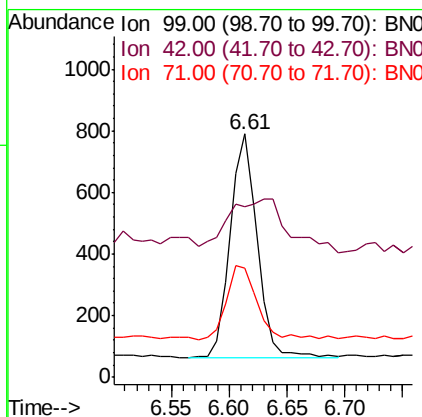
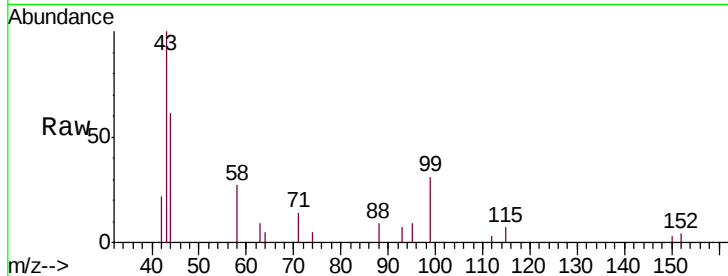
ClientSampleId :

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Tgt Ion:	99	Resp:	1179
Ion Ratio	Lower	Upper	
99	100		
42	0.0	15.8	23.6#
71	38.0	27.0	40.4

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#6

Naphthalene-d8

Concen: 0.400 ng

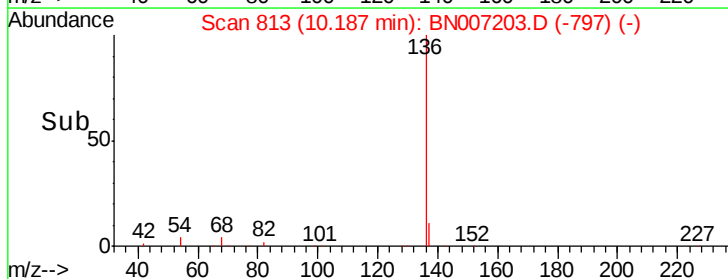
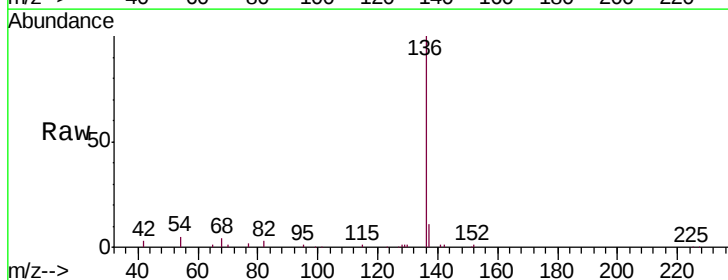
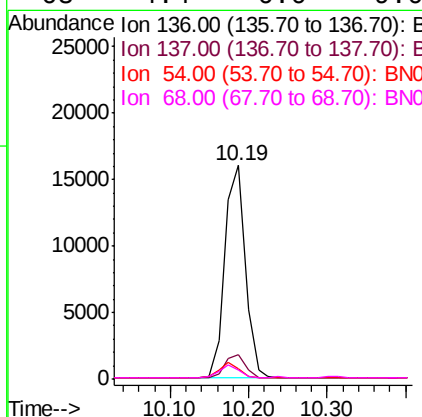
RT: 10.19 min Scan# 813

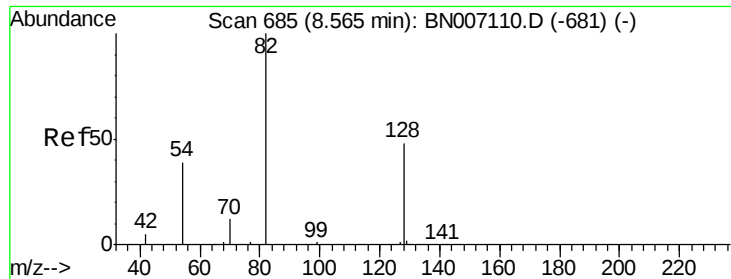
Delta R.T. -0.00 min

Lab File: BN007203.D

Acq: 15 Aug 2019 19:09

Tgt Ion:	136	Resp:	29267
Ion Ratio	Lower	Upper	
136	100		
137	11.2	9.4	14.0
54	4.5	6.6	9.8#
68	4.4	6.0	9.0#





#7

Nitrobenzene-d5

Concen: 0.038 ng

RT: 8.55 min Scan# 684

Delta R.T. -0.01 min

Lab File: BN007203.D

Acq: 15 Aug 2019 19:09

Instrument :

BNA_N

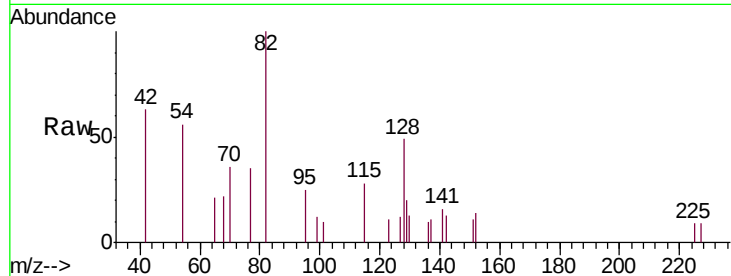
ClientSampleId :

PST-034-B232-080519

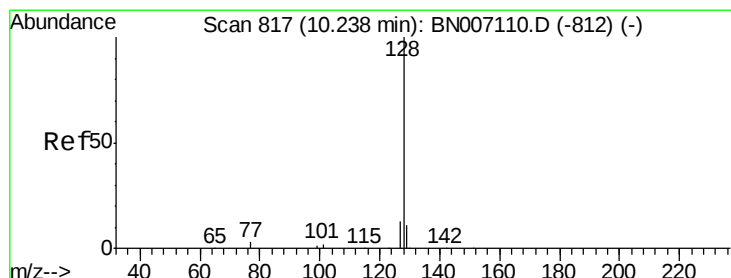
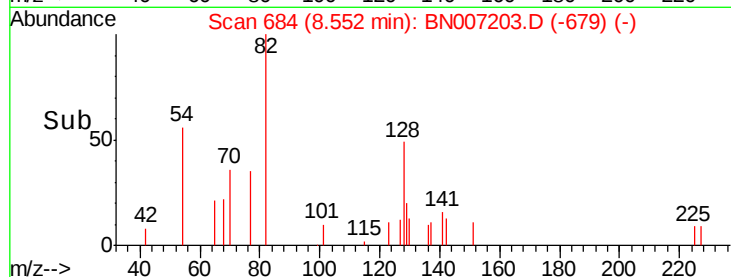
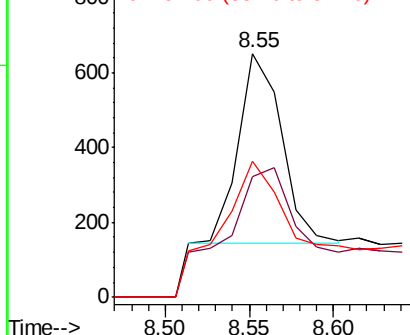
Tgt Ion:	82	Resp:	899
Ion Ratio	Lower	Upper	
82	100		
128	49.3	34.6	51.8
54	56.1	36.2	54.4

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Abundance Ion 82.00 (81.70 to 82.70): BNC
Ion 128.00 (127.70 to 128.70): BNC
Ion 54.00 (53.70 to 54.70): BNC



#8

Naphthalene

Concen: 0.045 ng

RT: 10.22 min Scan# 816

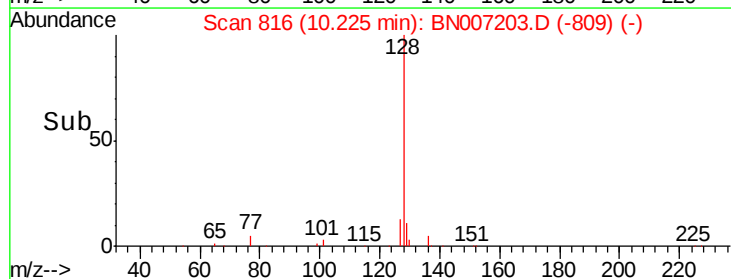
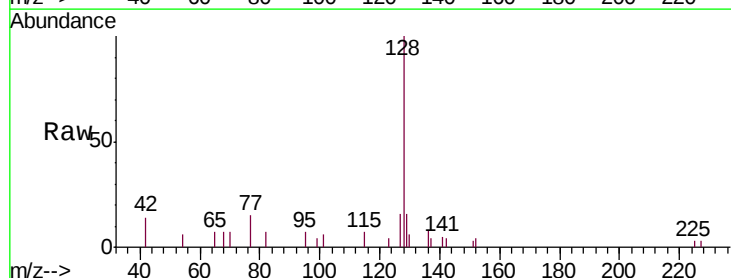
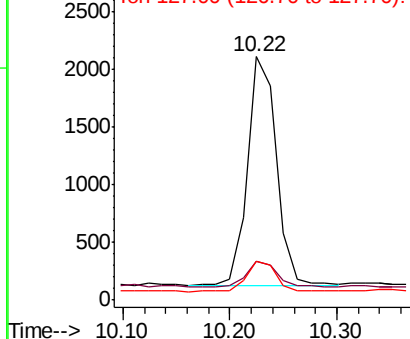
Delta R.T. -0.01 min

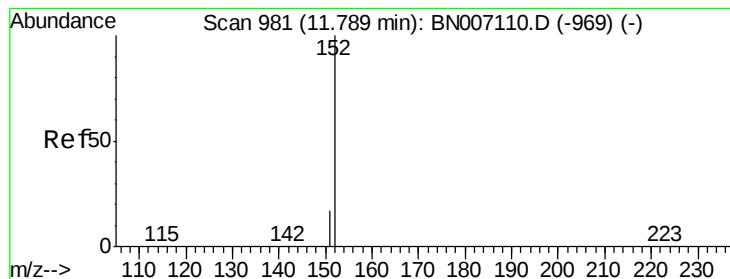
Lab File: BN007203.D

Acq: 15 Aug 2019 19:09

Tgt Ion:	128	Resp:	3699
Ion Ratio	Lower	Upper	
128	100		
129	16.1	9.4	14.2
127	16.1	11.0	16.6

Abundance Ion 128.00 (127.70 to 128.70): BNC
Ion 129.00 (128.70 to 129.70): BNC
Ion 127.00 (126.70 to 127.70): BNC





#10

2-Methylnaphthalene-d10

Concen: 0.035 ng

RT: 11.79 min Scan# 980

Delta R.T. -0.01 min

Lab File: BN007203.D

Acq: 15 Aug 2019 19:09

Instrument :

BNA_N

ClientSampleId :

PST-034-B232-080519

Tgt Ion:152 Resp: 1923

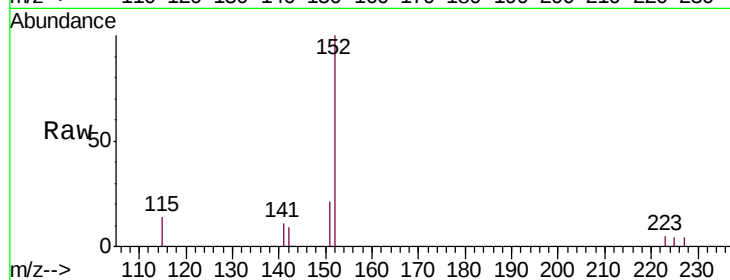
Ion Ratio Lower Upper

152 100

151 20.3 15.5 23.3

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Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

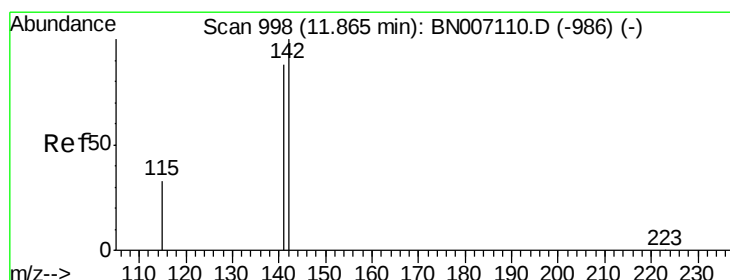
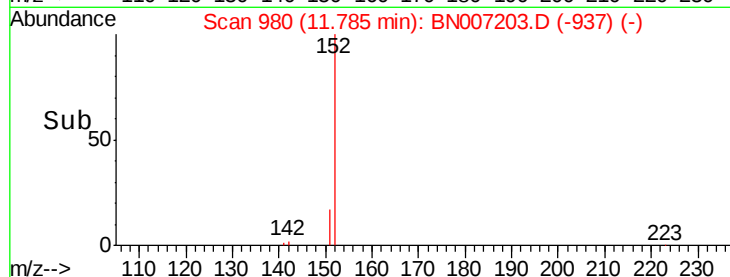
11.79

1000

500

0

Time--> 11.70 11.75 11.80 11.85



#11

2-Methylnaphthalene

Concen: 0.051 ng

RT: 11.86 min Scan# 997

Delta R.T. -0.01 min

Lab File: BN007203.D

Acq: 15 Aug 2019 19:09

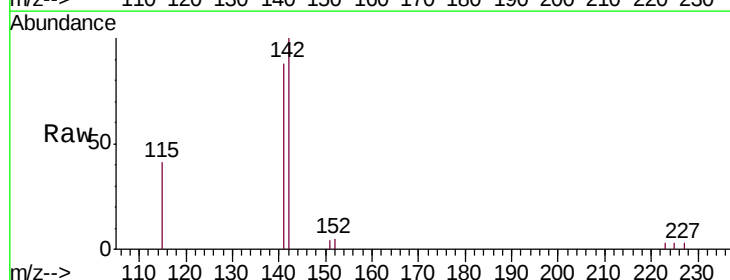
Tgt Ion:142 Resp: 2984

Ion Ratio Lower Upper

142 100

141 87.9 69.0 103.6

115 41.1 27.1 40.7#



Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E

Ion 115.00 (114.70 to 115.70): E

11.86

2500

2000

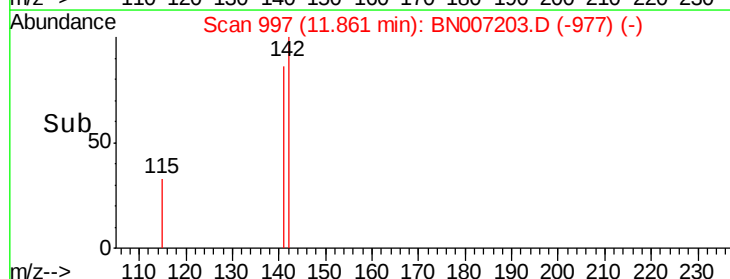
1500

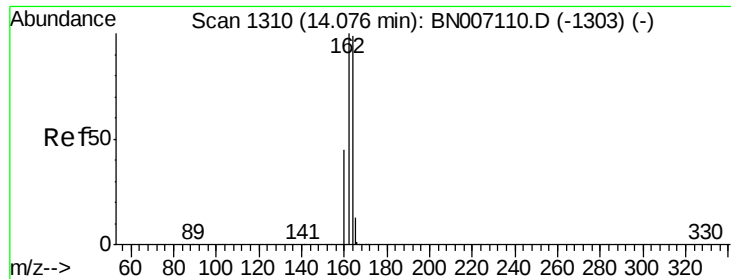
1000

500

0

Time--> 11.80 11.90





#12

Acenaphthene-d10

Concen: 0.400 ng

RT: 14.07 min Scan# 1309

Delta R.T. -0.01 min

Lab File: BN007203.D

Acq: 15 Aug 2019 19:09

Instrument :

BNA_N

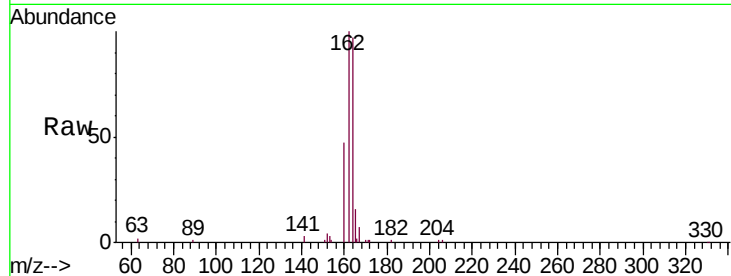
ClientSampleId :

PST-034-B232-080519

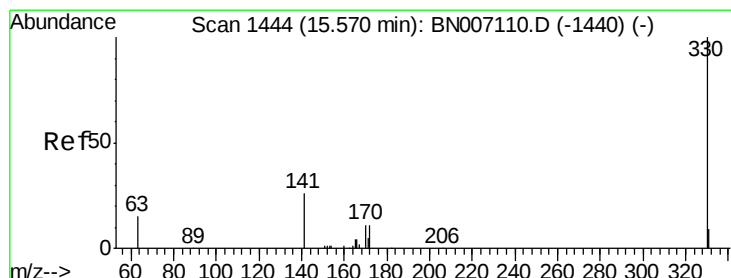
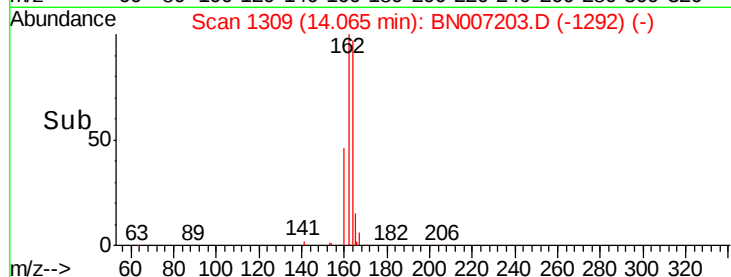
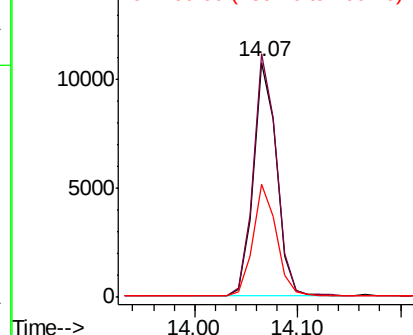
Tgt Ion:	164	Resp:	16656
Ion Ratio	Lower	Upper	
164	100		
162	103.5	82.2	123.4
160	48.2	38.3	57.5

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Abundance Ion 164.00 (163.70 to 164.70): E
Ion 162.00 (161.70 to 162.70): E
Ion 160.00 (159.70 to 160.70): E



#13

2,4,6-Tribromophenol

Concen: 0.035 ng

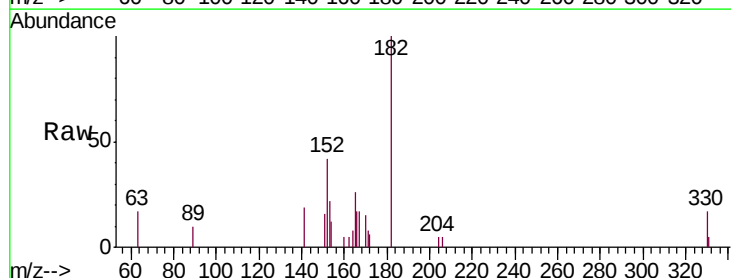
RT: 15.57 min Scan# 1444

Delta R.T. -0.00 min

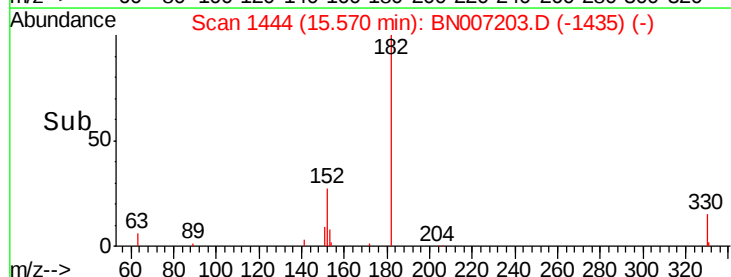
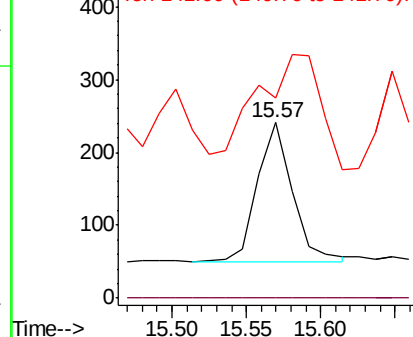
Lab File: BN007203.D

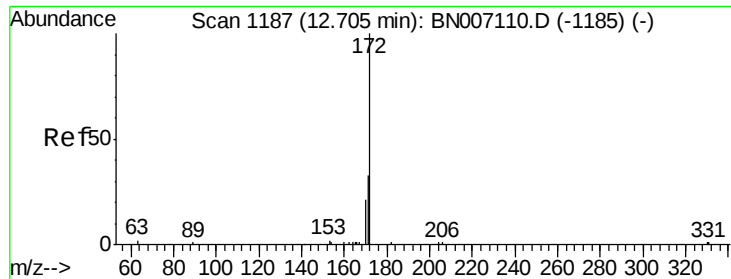
Acq: 15 Aug 2019 19:09

Tgt Ion:	330	Resp:	314
Ion Ratio	Lower	Upper	
330	100		
332	0.0	0.0	0.0
141	151.6	33.6	50.4#



Abundance Ion 330.00 (329.70 to 330.70): E
Ion 331.80 (331.50 to 332.50): E
Ion 141.00 (140.70 to 141.70): E





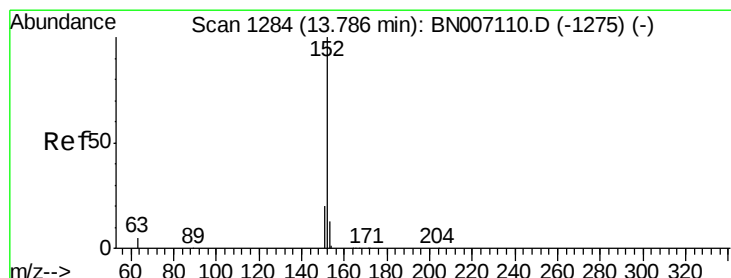
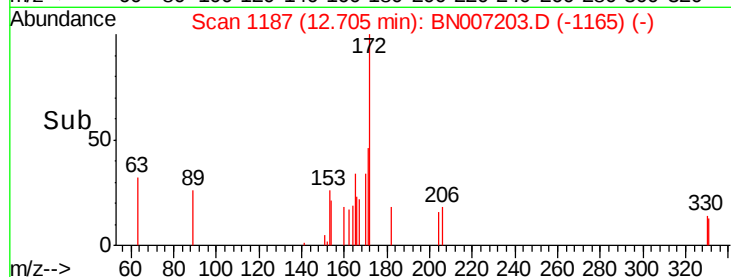
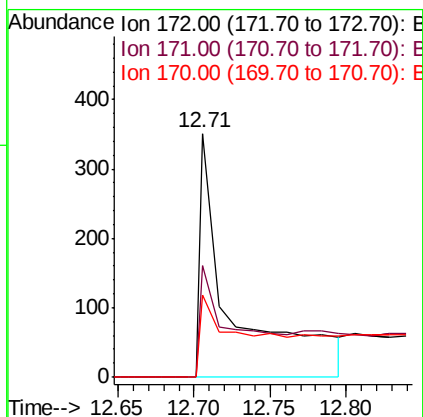
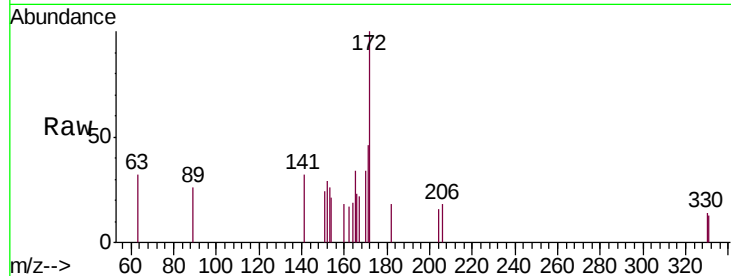
#14
2-Fluorobiphenyl
Concen: 0.022 ng
RT: 12.71 min Scan# 1187
Delta R.T. -0.00 min
Lab File: BN007203.D
Acq: 15 Aug 2019 19:09

Instrument :
BNA_N
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PST-034-B232-080519

Tgt Ion	Ratio	Lower	Upper
172	100		
171	45.9	26.3	39.5#
170	33.9	17.0	25.4#

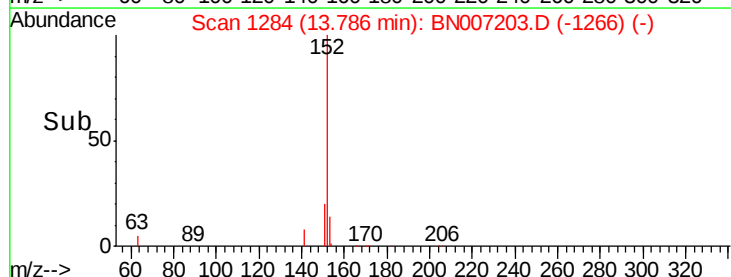
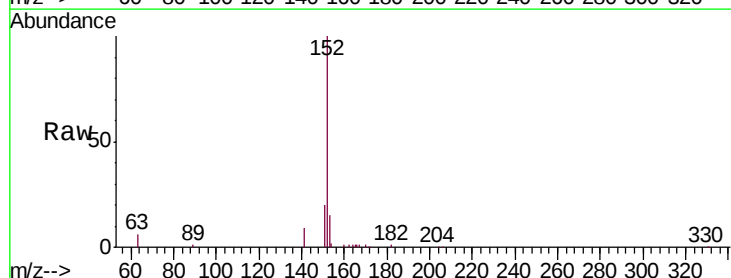
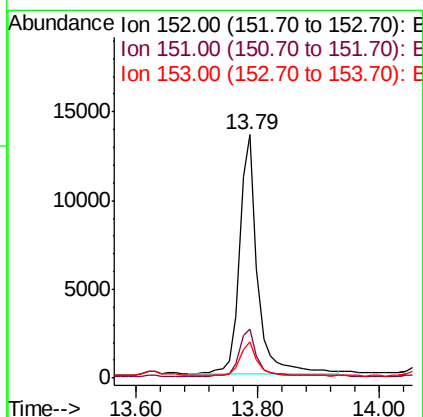
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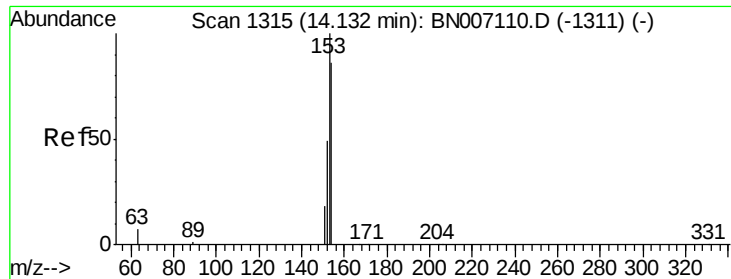
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#15
Acenaphthylene
Concen: 0.314 ng
RT: 13.79 min Scan# 1284
Delta R.T. -0.00 min
Lab File: BN007203.D
Acq: 15 Aug 2019 19:09

Tgt Ion	Ratio	Lower	Upper
152	100		
151	19.9	15.8	23.6
153	14.0	10.4	15.6





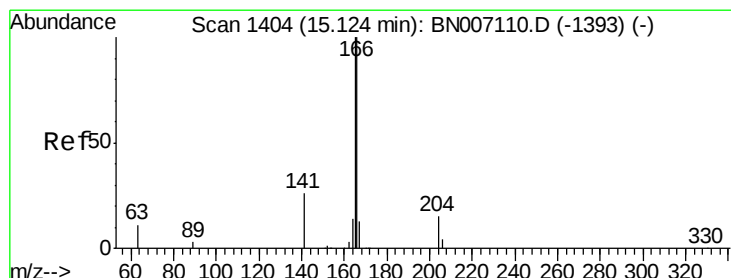
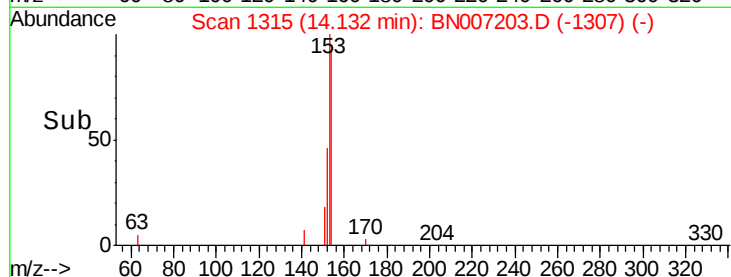
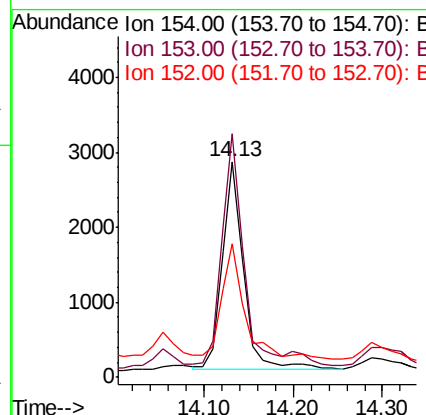
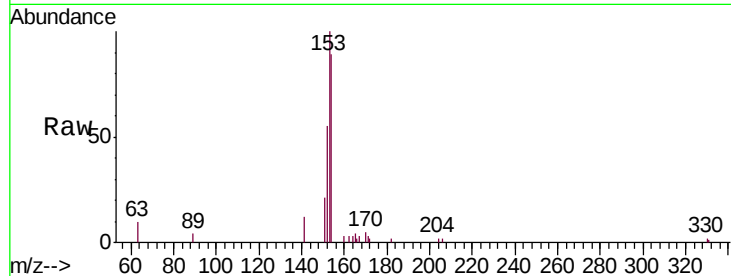
#16
Acenaphthene
Concen: 0.082 ng
RT: 14.13 min Scan# 1315
Delta R.T. -0.01 min
Lab File: BN007203.D
Acq: 15 Aug 2019 19:09

Instrument :
BNA_N
ClientSampleId :
PST-034-B232-080519

Tgt Ion	Ratio	Lower	Upper
154	100		
153	110.6	89.5	134.3
152	62.0	44.8	67.2

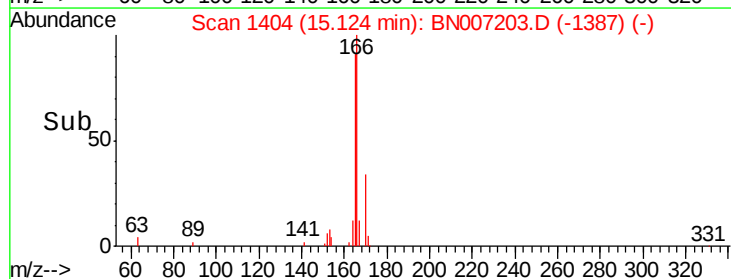
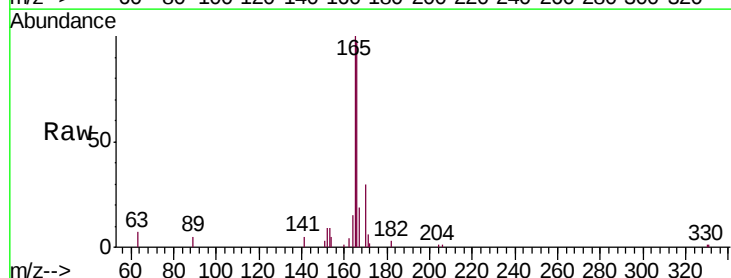
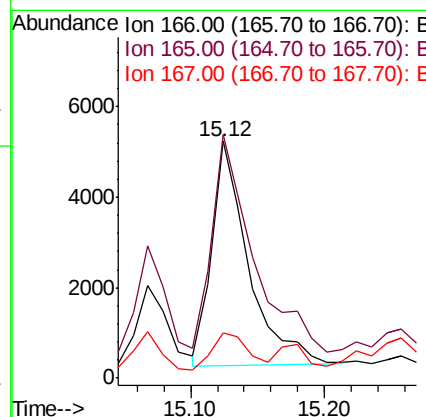
Manual Integrations
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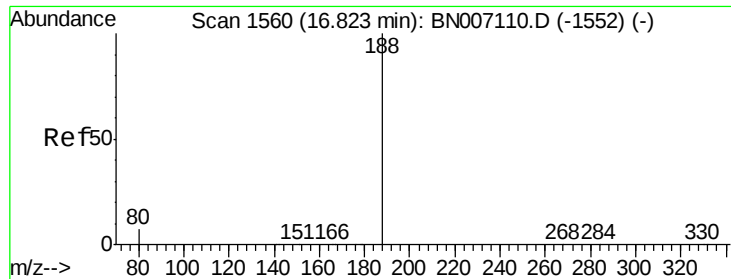
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#17
Fluorene
Concen: 0.113 ng
RT: 15.12 min Scan# 1404
Delta R.T. -0.01 min
Lab File: BN007203.D
Acq: 15 Aug 2019 19:09

Tgt Ion	Ratio	Lower	Upper
166	100		
165	111.7	77.9	116.9
167	16.0	10.9	16.3





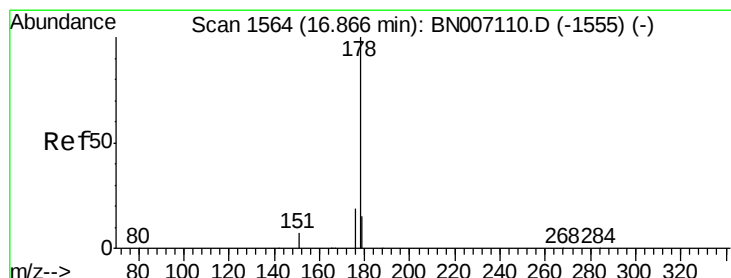
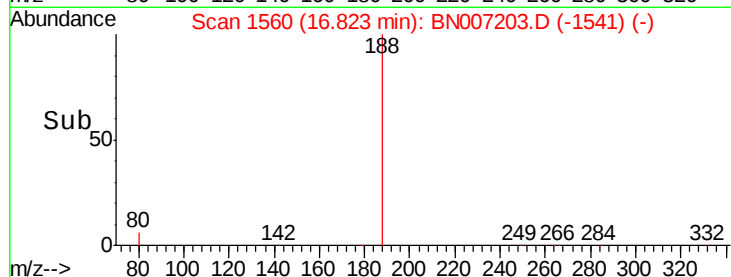
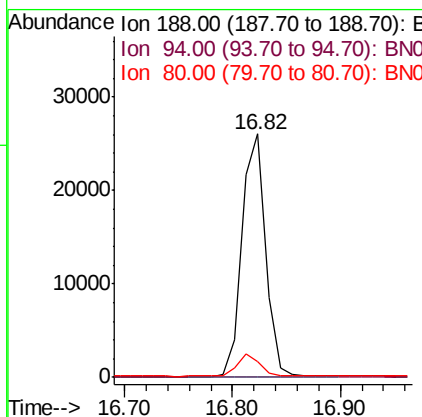
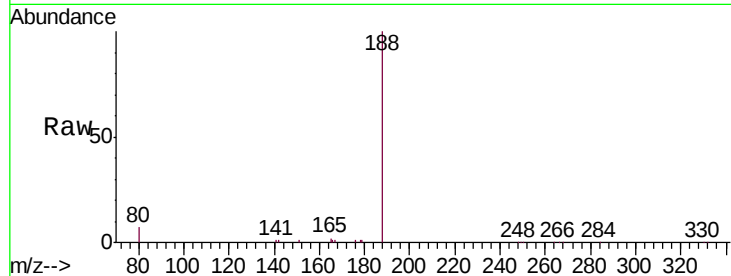
#18
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.82 min Scan# 1560
Delta R.T. -0.00 min
Lab File: BN007203.D
Acq: 15 Aug 2019 19:09

Instrument :
BNA_N
ClientSampleId :
PST-034-B232-080519

Tgt Ion	Ratio	Resp Lower	Resp Upper
188	100		
94	0.0	0.0	0.0
80	6.7	7.8	11.6

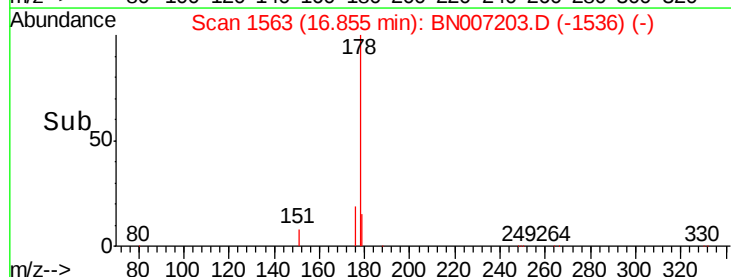
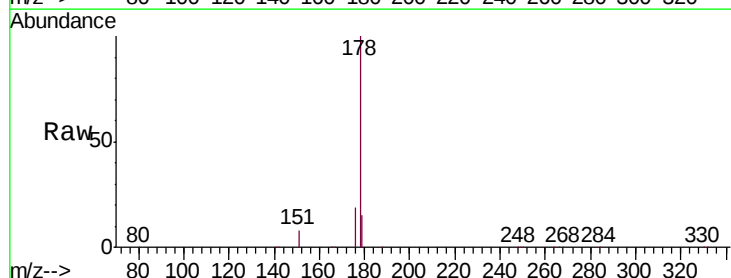
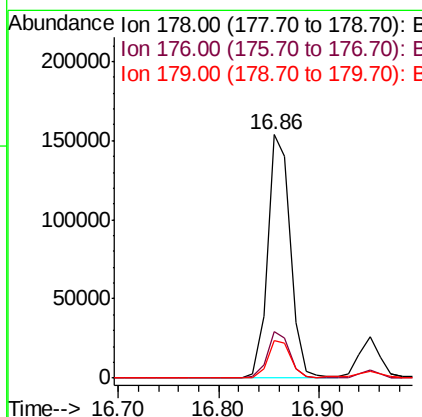
Manual Integrations
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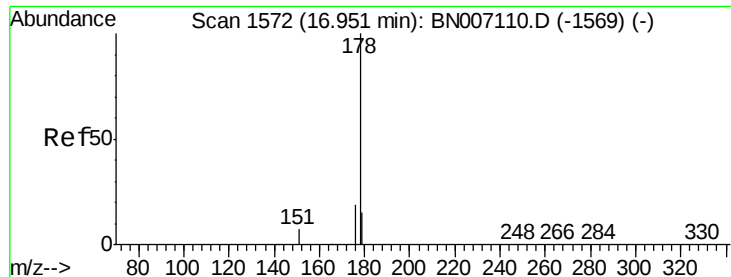
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#22
Phenanthrene
Concen: 2.037 ng
RT: 16.86 min Scan# 1563
Delta R.T. -0.01 min
Lab File: BN007203.D
Acq: 15 Aug 2019 19:09

Tgt Ion	Ratio	Resp Lower	Resp Upper
178	100		
176	18.8	15.2	22.8
179	15.4	12.3	18.5





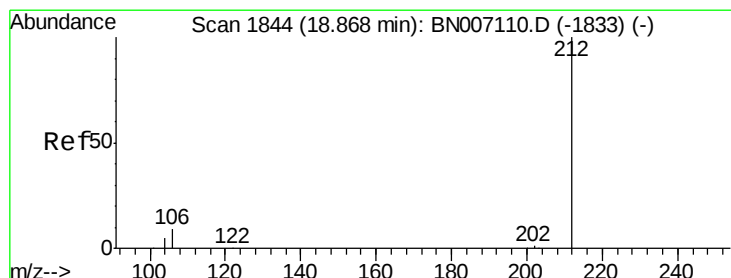
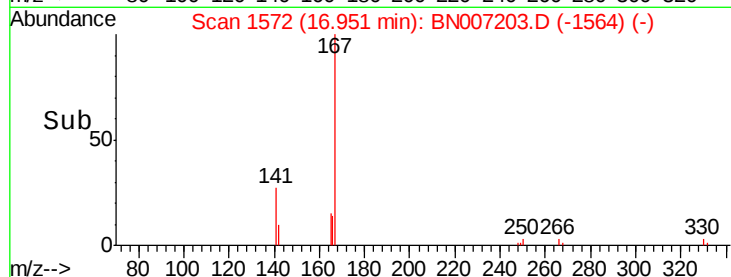
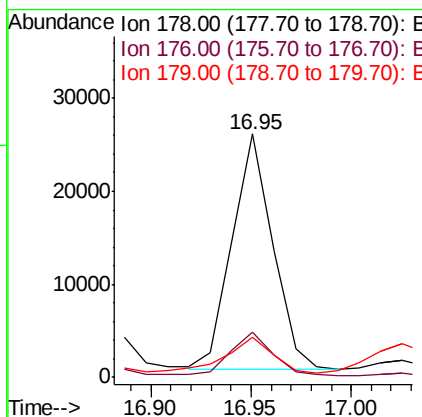
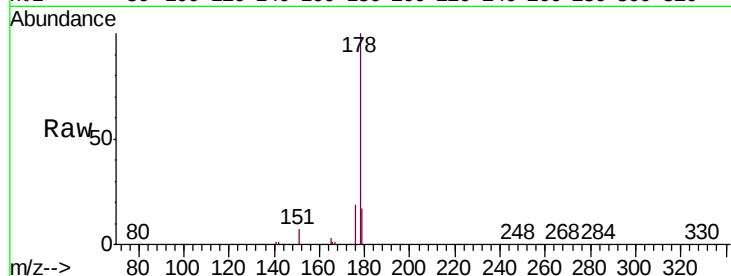
#23
 Anthracene
 Concen: 0.334 ng
 RT: 16.95 min Scan# 1572
 Delta R.T. -0.01 min
 Lab File: BN007203.D
 Acq: 15 Aug 2019 19:09

Instrument :
 BNA_N
 ClientSampleId :
 PST-034-B232-080519

Tgt Ion	Ratio	Lower	Upper
178	100		
176	18.4	14.6	21.8
179	17.2	12.5	18.7

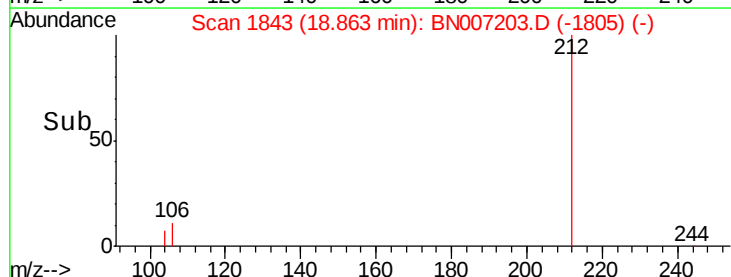
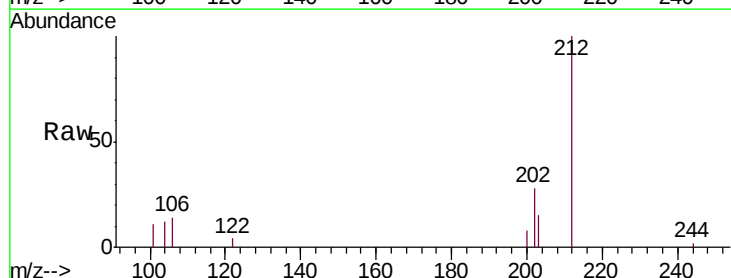
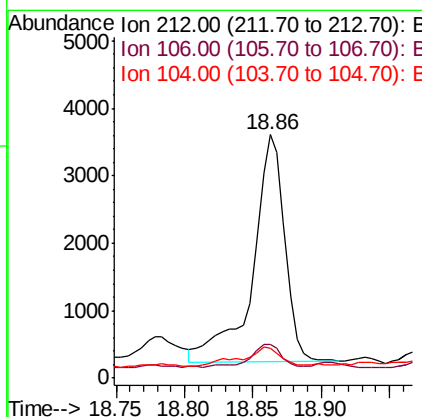
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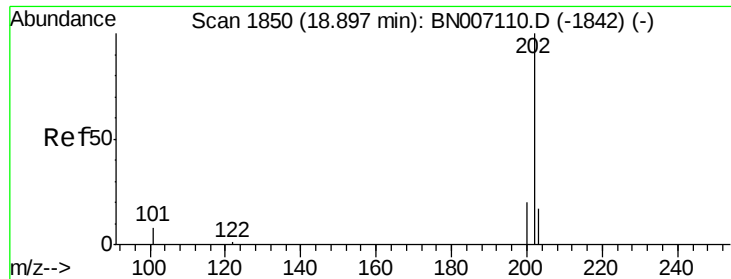
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#24
 Fluoranthene-d10
 Concen: 0.040 ng
 RT: 18.86 min Scan# 1843
 Delta R.T. -0.01 min
 Lab File: BN007203.D
 Acq: 15 Aug 2019 19:09

Tgt Ion	Ratio	Lower	Upper
212	100		
106	9.7	8.2	12.2
104	10.3	4.5	6.7#





#25

Fluoranthene

Concen: 2.484 ng

RT: 18.89 min Scan# 1849

Delta R.T. -0.01 min

Lab File: BN007203.D

Acq: 15 Aug 2019 19:09

Instrument :

BNA_N

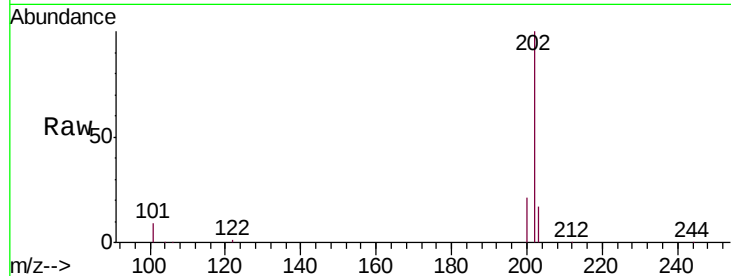
ClientSampleId :

PST-034-B232-080519

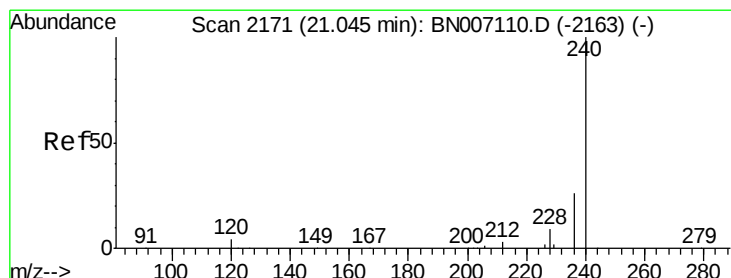
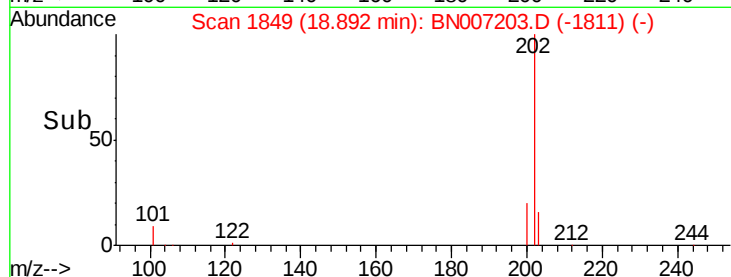
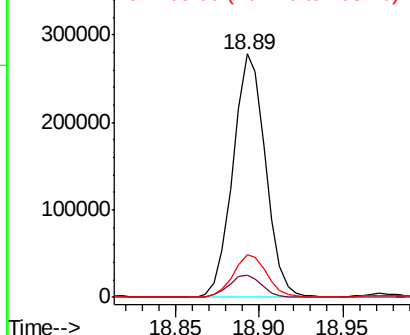
Tgt Ion:	202	Resp:	375327
Ion Ratio	Lower	Upper	
202	100		
101	9.0	7.0	10.4
203	17.8	13.8	20.8

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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



#26

Chrysene-d12

Concen: 0.400 ng

RT: 21.03 min Scan# 2170

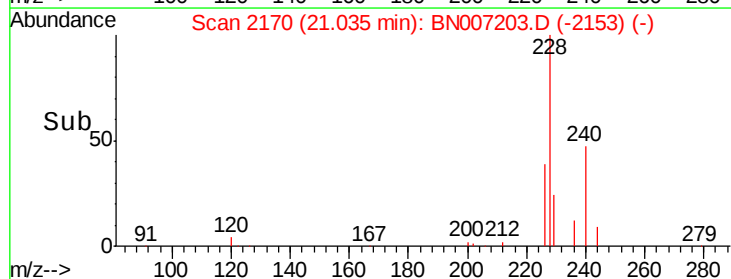
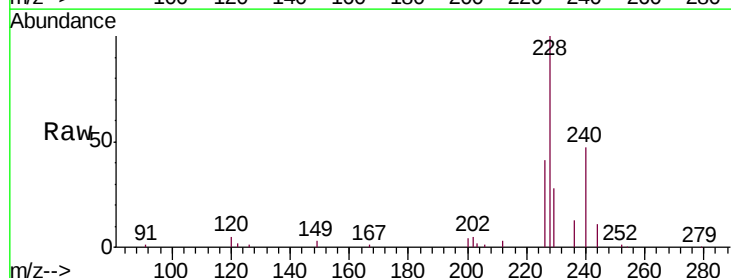
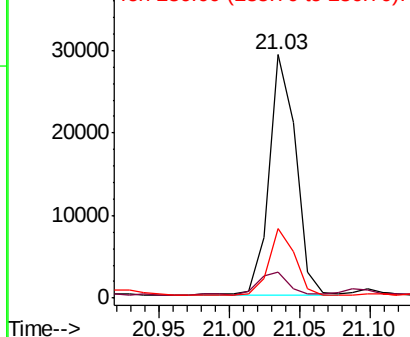
Delta R.T. -0.02 min

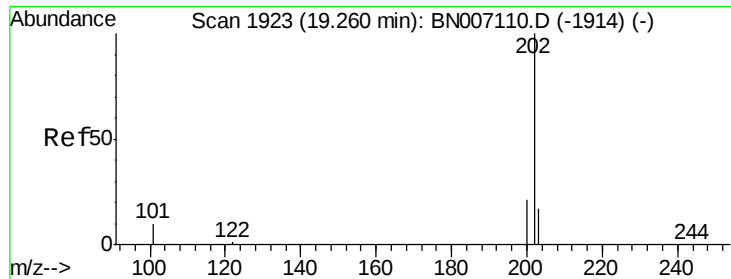
Lab File: BN007203.D

Acq: 15 Aug 2019 19:09

Tgt Ion:	240	Resp:	38932
Ion Ratio	Lower	Upper	
240	100		
120	10.7	4.0	6.0#
236	28.3	21.3	31.9

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





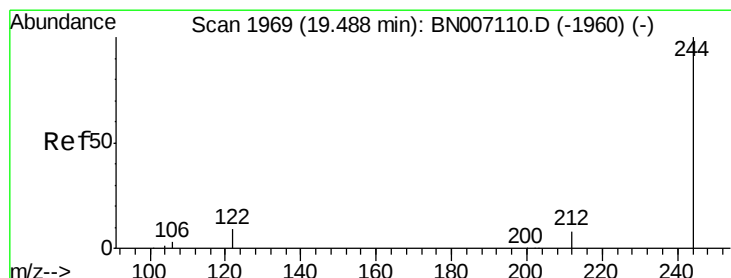
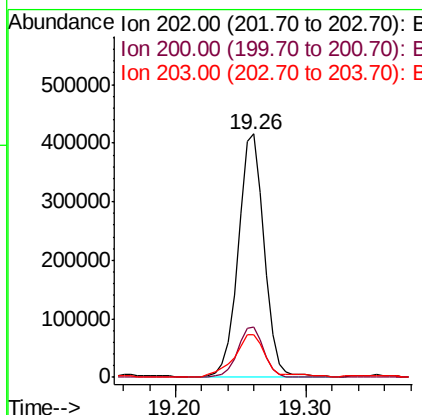
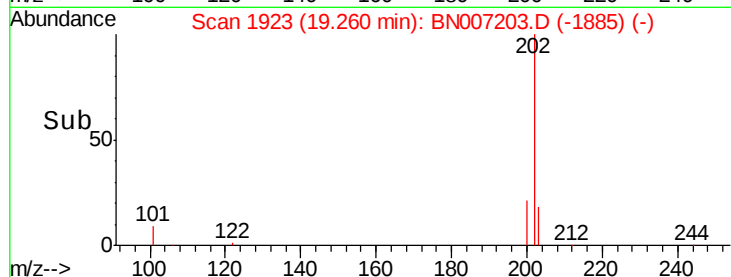
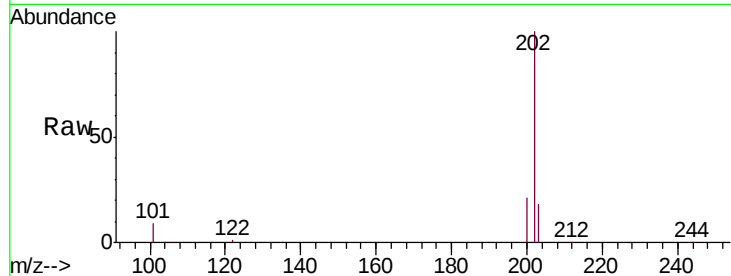
#27
 Pyrene
 Concen: 4.223 ng
 RT: 19.26 min Scan# 1923
 Delta R.T. -0.01 min
 Lab File: BN007203.D
 Acq: 15 Aug 2019 19:09

Instrument :
 BNA_N
 ClientSampleId :
 PST-034-B232-080519

Tgt Ion:	202	Resp:	576595
Ion Ratio	Lower	Upper	
202	100		
200	20.9	16.6	24.8
203	20.1	14.0	21.0

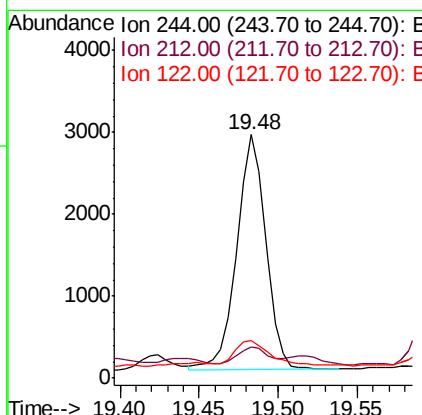
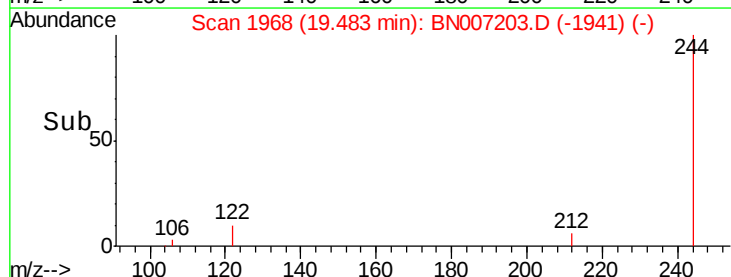
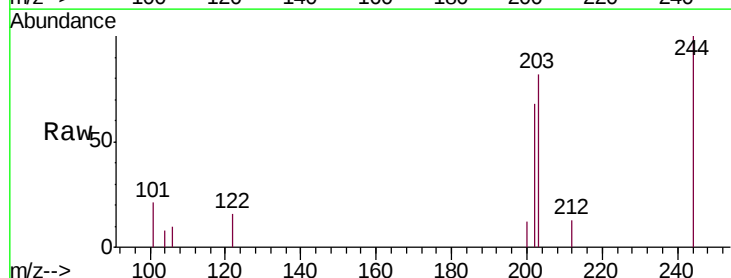
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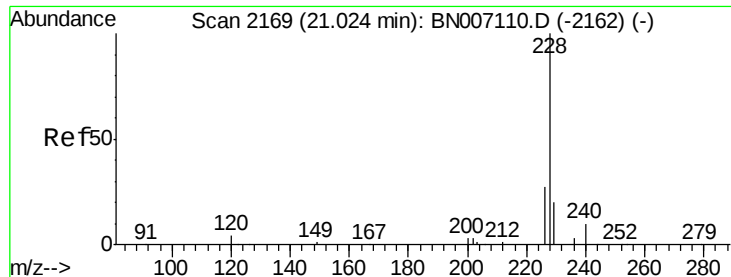
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#28
 Terphenyl-d14
 Concen: 0.034 ng
 RT: 19.48 min Scan# 1968
 Delta R.T. -0.02 min
 Lab File: BN007203.D
 Acq: 15 Aug 2019 19:09

Tgt Ion:	244	Resp:	3646
Ion Ratio	Lower	Upper	
244	100		
212	12.9	6.2	9.2#
122	15.5	7.4	11.2#





#29

Benzo(a)anthracene

Concen: 1.933 ng

RT: 21.02 min Scan# 2169

Delta R.T. -0.01 min

Lab File: BN007203.D

Acq: 15 Aug 2019 19:09

Instrument :

BNA_N

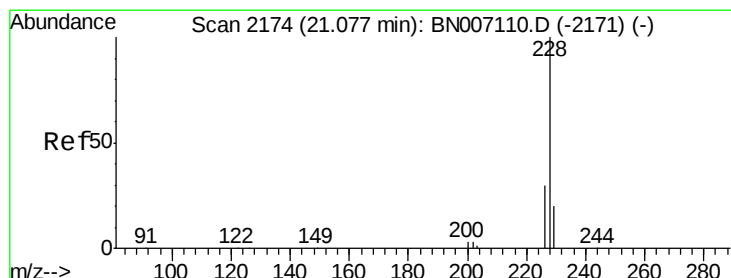
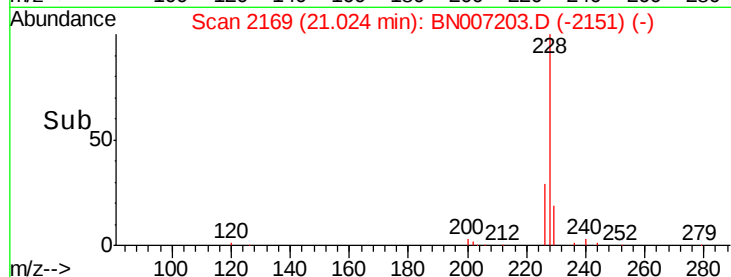
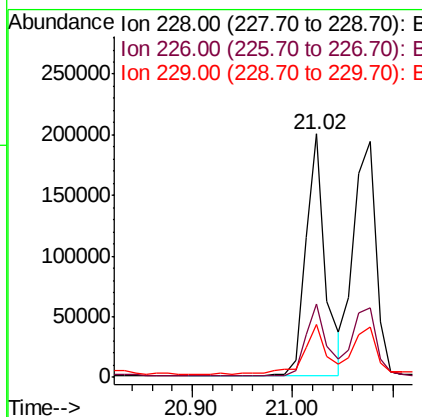
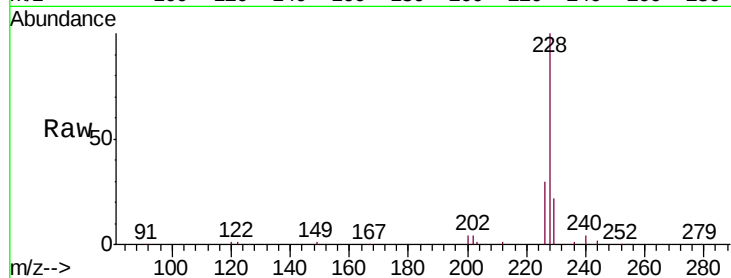
ClientSampleId :

PST-034-B232-080519

Tgt Ion:	228	Resp:	275221
Ion Ratio	Lower	Upper	
228	100		
226	30.2	21.8	32.6
229	21.7	15.6	23.4

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#30

Chrysene

Concen: 2.183 ng

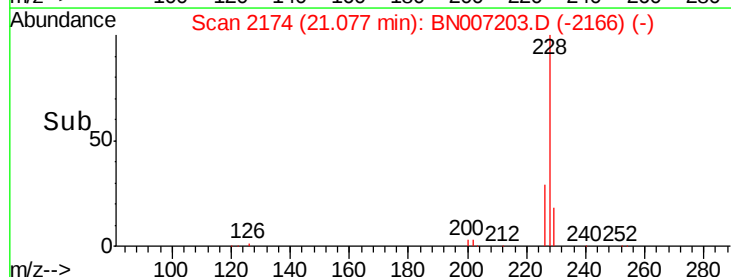
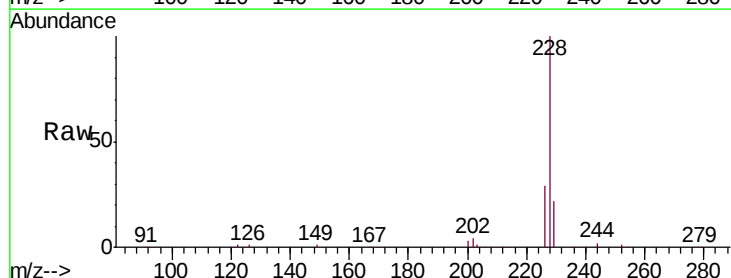
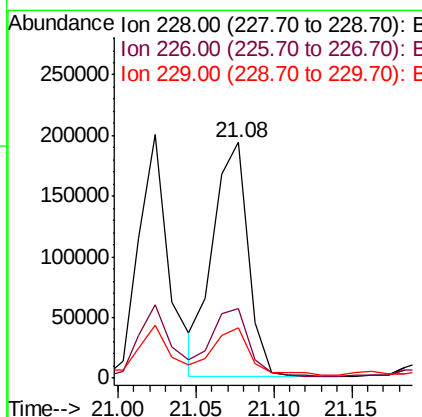
RT: 21.08 min Scan# 2174

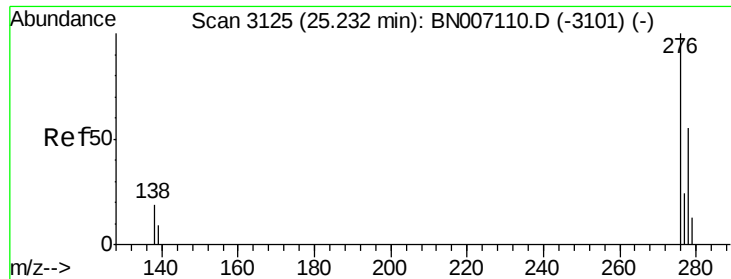
Delta R.T. -0.01 min

Lab File: BN007203.D

Acq: 15 Aug 2019 19:09

Tgt Ion:	228	Resp:	302022
Ion Ratio	Lower	Upper	
228	100		
226	29.3	23.8	35.6
229	21.5	15.7	23.5





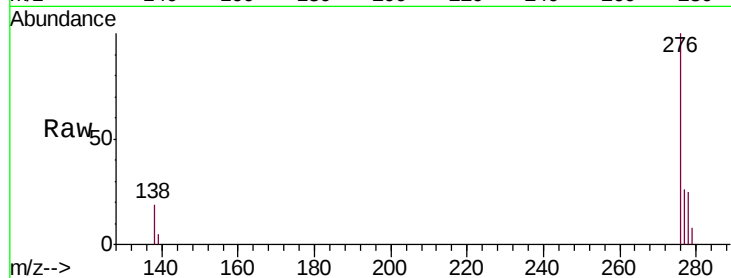
#31
 Indeno(1,2,3-cd)pyrene
 Concen: 0.766 ng
 RT: 25.23 min Scan# 3123
 Delta R.T. -0.03 min
 Lab File: BN007203.D
 Acq: 15 Aug 2019 19:09

Instrument :
 BNA_N
 ClientSampleId :
 PST-034-B232-080519

Tgt Ion	Ratio	Resp	Lower	Upper
276	100	116728		
138	19.0	16.0	24.0	
277	25.0	19.9	29.9	

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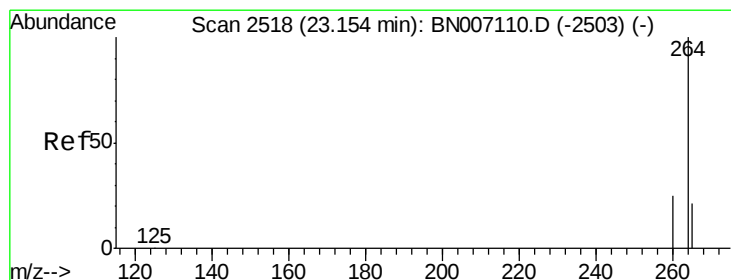
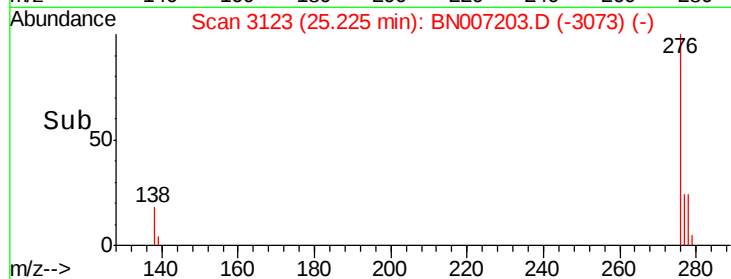
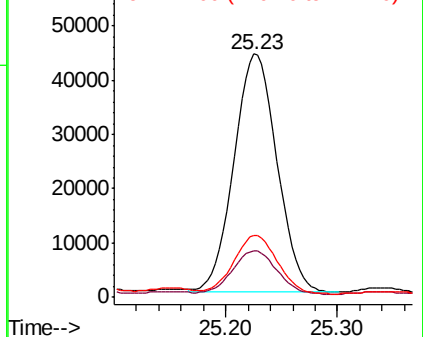


Abundance

Ion 276.00 (275.70 to 276.70): E

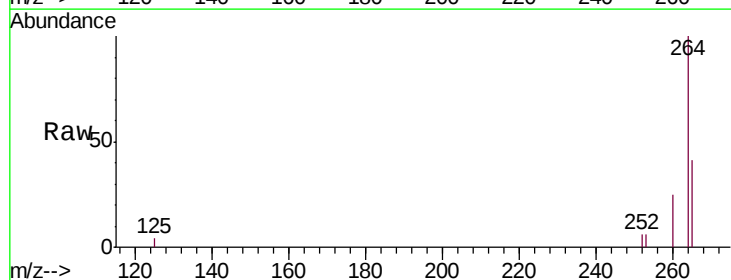
Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E



#32
 Perylene-d12
 Concen: 0.400 ng
 RT: 23.15 min Scan# 2518
 Delta R.T. -0.02 min
 Lab File: BN007203.D
 Acq: 15 Aug 2019 19:09

Tgt Ion	Ratio	Resp	Lower	Upper
264	100	43089		
260	24.9	19.8	29.8	
265	41.0	26.2	39.4	

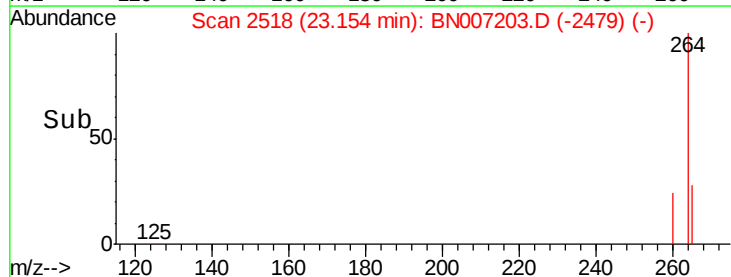
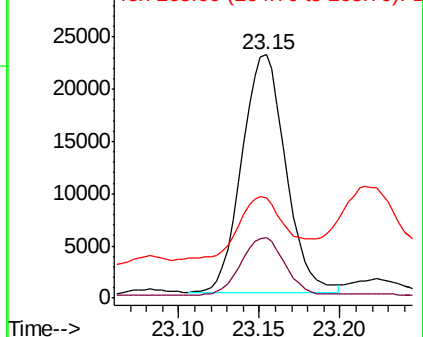


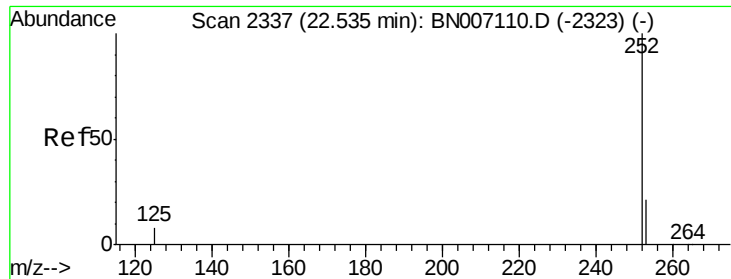
Abundance

Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E





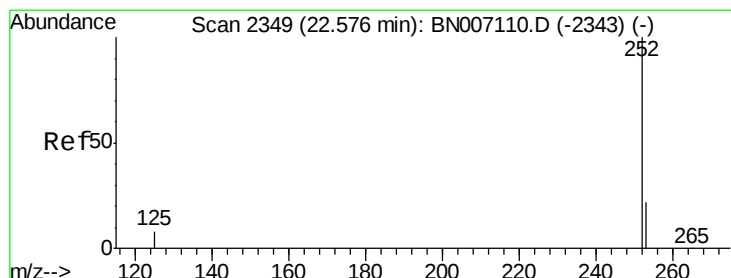
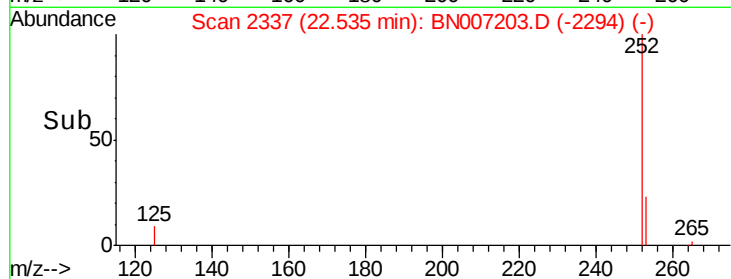
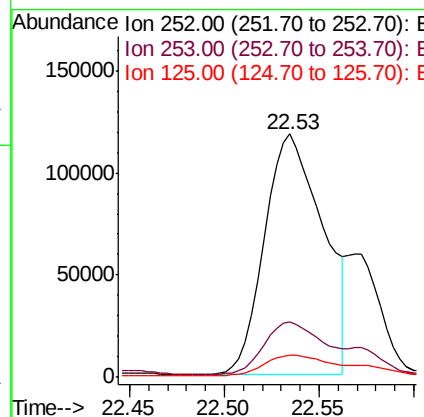
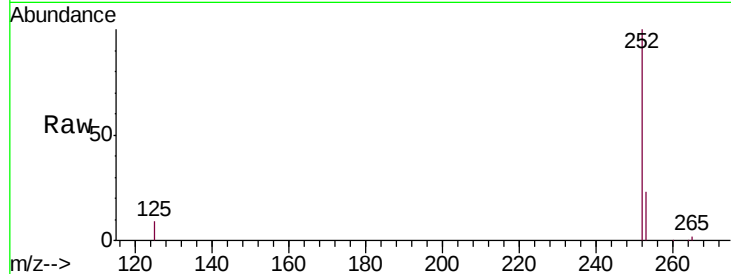
#33
Benzo(b)fluoranthene
Concen: 1.709 ng
RT: 22.53 min Scan# 2337
Delta R.T. -0.01 min
Lab File: BN007203.D
Acq: 15 Aug 2019 19:09

Instrument :
BNA_N
ClientSampleId :
PST-034-B232-080519

Tgt Ion	Ratio	Resp	Lower	Upper
252	100	252488		
253	22.8	18.2	27.2	
125	9.4	7.4	11.0	

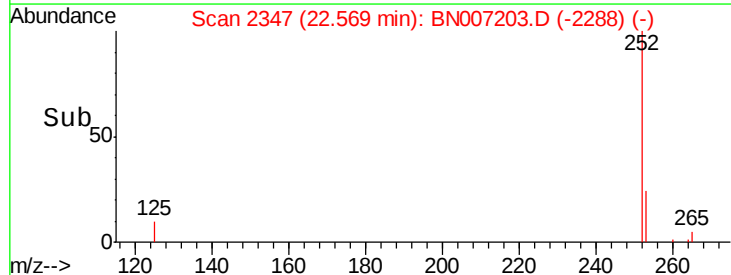
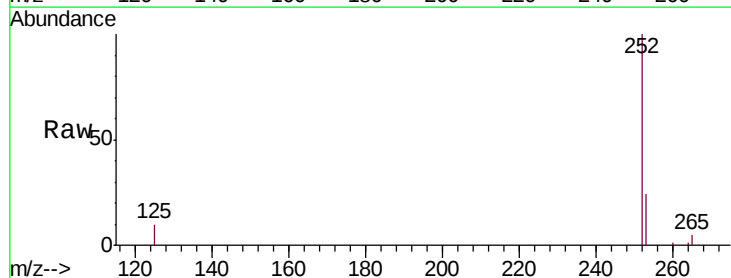
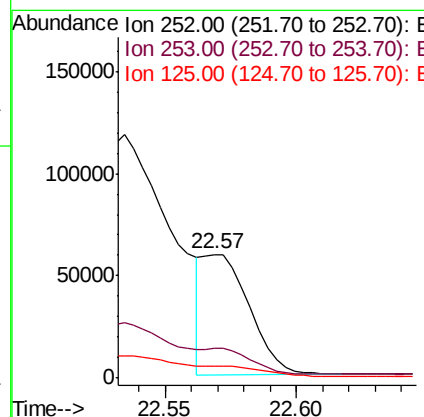
Manual Integrations
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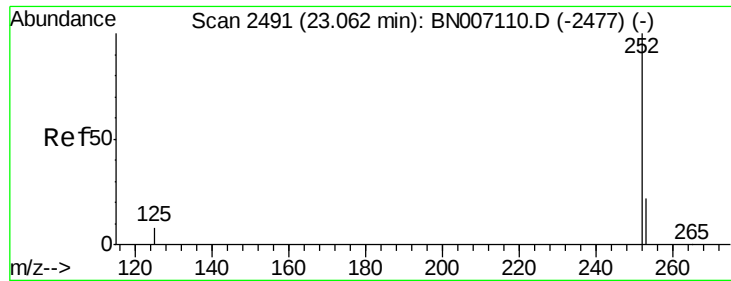
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#34
Benzo(k)fluoranthene
Concen: 0.499 ng m
RT: 22.57 min Scan# 2347
Delta R.T. -0.02 min
Lab File: BN007203.D
Acq: 15 Aug 2019 19:09

Tgt Ion	Ratio	Resp	Lower	Upper
252	100	72746		
253	23.7	18.1	27.1	
125	10.0	7.4	11.0	





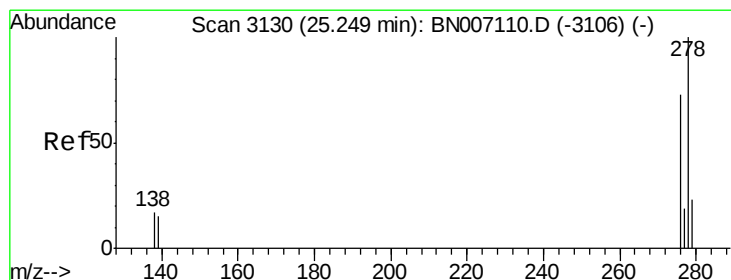
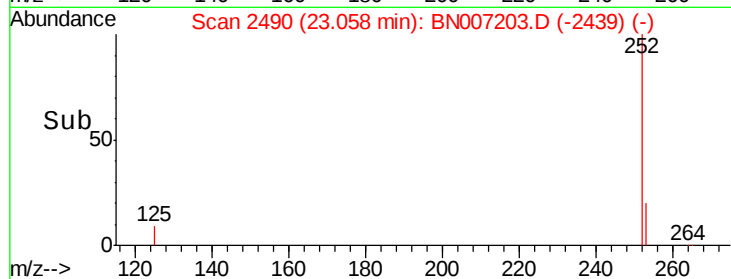
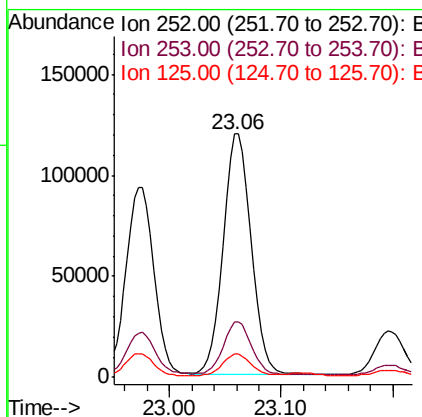
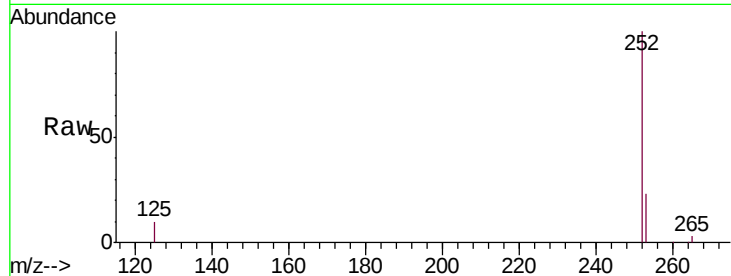
#35
Benzo(a)pyrene
Concen: 1.543 ng
RT: 23.06 min Scan# 2490
Delta R.T. -0.02 min
Lab File: BN007203.D
Acq: 15 Aug 2019 19:09

Instrument :
BNA_N
ClientSampleId :
PST-034-B232-080519

Tgt Ion	Ratio	Resp	Lower	Upper
252	100	206688		
253	22.6	18.5	27.7	
125	9.5	8.2	12.4	

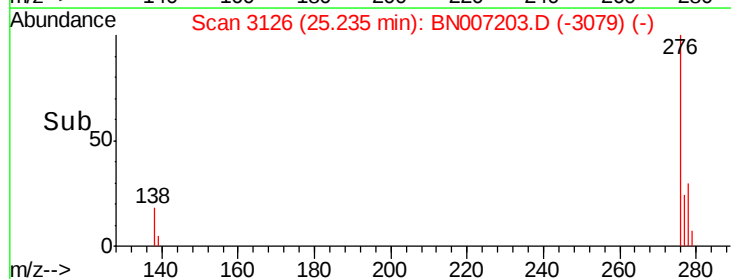
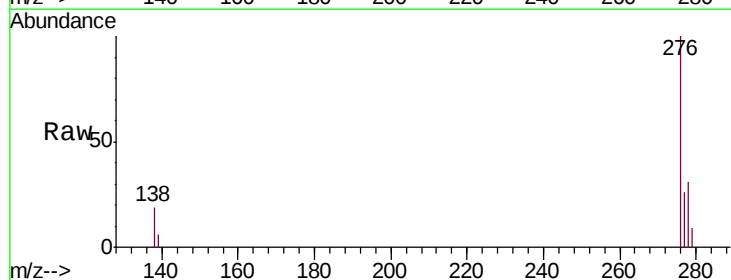
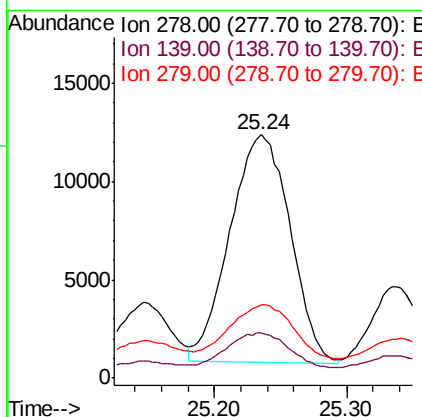
Manual Integrations
APPROVED

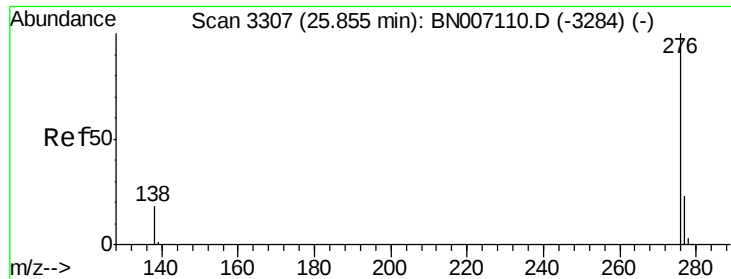
Jagrut
8/16/2019 6:11:38 PM



#36
Dibenzo(a,h)anthracene
Concen: 0.274 ng
RT: 25.24 min Scan# 3126
Delta R.T. -0.04 min
Lab File: BN007203.D
Acq: 15 Aug 2019 19:09

Tgt Ion	Ratio	Resp	Lower	Upper
278	100	36583		
139	18.4	11.3	16.9#	
279	30.3	19.3	28.9#	





#37
 Benzo(g,h,i)perylene
 Concen: 0.985 ng
 RT: 25.85 min Scan# 3307
 Delta R.T. -0.02 min
 Lab File: BN007203.D
 Acq: 15 Aug 2019 19:09

Instrument :
 BNA_N
 ClientSampleId :
 PST-034-B232-080519

Tgt	Ion	Ratio	Resp	Lower	Upper
276	100		135438		
277	24.7	19.8	29.8		
138	19.2	14.6	22.0		

Manual Integrations
 APPROVED

Jagrut
 8/16/2019 6:11:38 PM

