

Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN081619\
 Data File : BN007239.D
 Acq On : 17 Aug 2019 02:04
 Operator : HP/JU
 Sample : K4282-12
 Misc :
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :

Manual Integrations
 APPROVED

Quant Time: Aug 19 04:11:17 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	7393	0.40	ng	0.00
6) Naphthalene-d8	10.17	136	28718	0.40	ng	-0.01
12) Acenaphthene-d10	14.07	164	17387	0.40	ng	-0.01
18) Phenanthrene-d10	16.81	188	35861	0.40	ng	-0.01
26) Chrysene-d12	21.03	240	36491	0.40	ng	-0.02
32) Perylene-d12	23.15	264	44236	0.40	ng	-0.02
System Monitoring Compounds						
3) 2-Fluorophenol	5.06	112	5672	0.32	ng	0.00
4) Phenol-d6	6.61	99	7531	0.34	ng	0.00
7) Nitrobenzene-d5	8.55	82	6220	0.27	ng	-0.01
10) 2-Methylnaphthalene-d10	11.78	152	10849	0.20	ng	-0.01
13) 2,4,6-Tribromophenol	15.56	330	2112	0.23	ng	-0.01
14) 2-Fluorobiphenyl	12.71	172	748	0.03	ng	0.00
24) Fluoranthene-d10	18.86	212	19425	0.15	ng	-0.01
28) Terphenyl-d14	19.48	244	15800	0.16	ng	-0.02
Target Compounds						Qvalue
8) Naphthalene	10.23	128	34003	0.422	ng	99
11) 2-Methylnaphthalene	11.85	142	33559	0.588	ng	97
15) Acenaphthylene	13.78	152	193616	2.130	ng	98
16) Acenaphthene	14.13	154	38133	0.655	ng	94
17) Fluorene	15.12	166	88953	1.021	ng	# 85
22) Phenanthrene	16.86	178	2562017	23.839	ng	99
23) Anthracene	16.95	178	317595	3.234	ng	98
25) Fluoranthene	18.89	202	2454750	17.856	ng	98
27) Pyrene	19.26	202	4281431	33.456	ng	# 95
29) Benzo(a)anthracene	21.02	228	1876766	14.064	ng	91
30) Chrysene	21.07	228	1964219	15.150	ng	97
31) Indeno(1,2,3-cd)pyrene	25.23	276	779047	5.452	ng	98
33) Benzo(b)fluoranthene	22.53	252	1691854m	11.153	ng	
34) Benzo(k)fluoranthene	22.56	252	473593m	3.161	ng	
35) Benzo(a)pyrene	23.06	252	1388148	10.094	ng	99
36) Dibenzo(a,h)anthracene	25.23	278	252821	1.843	ng	# 91
37) Benzo(a,h,i)perylene	25.86	276	977081	6.923	ng	100

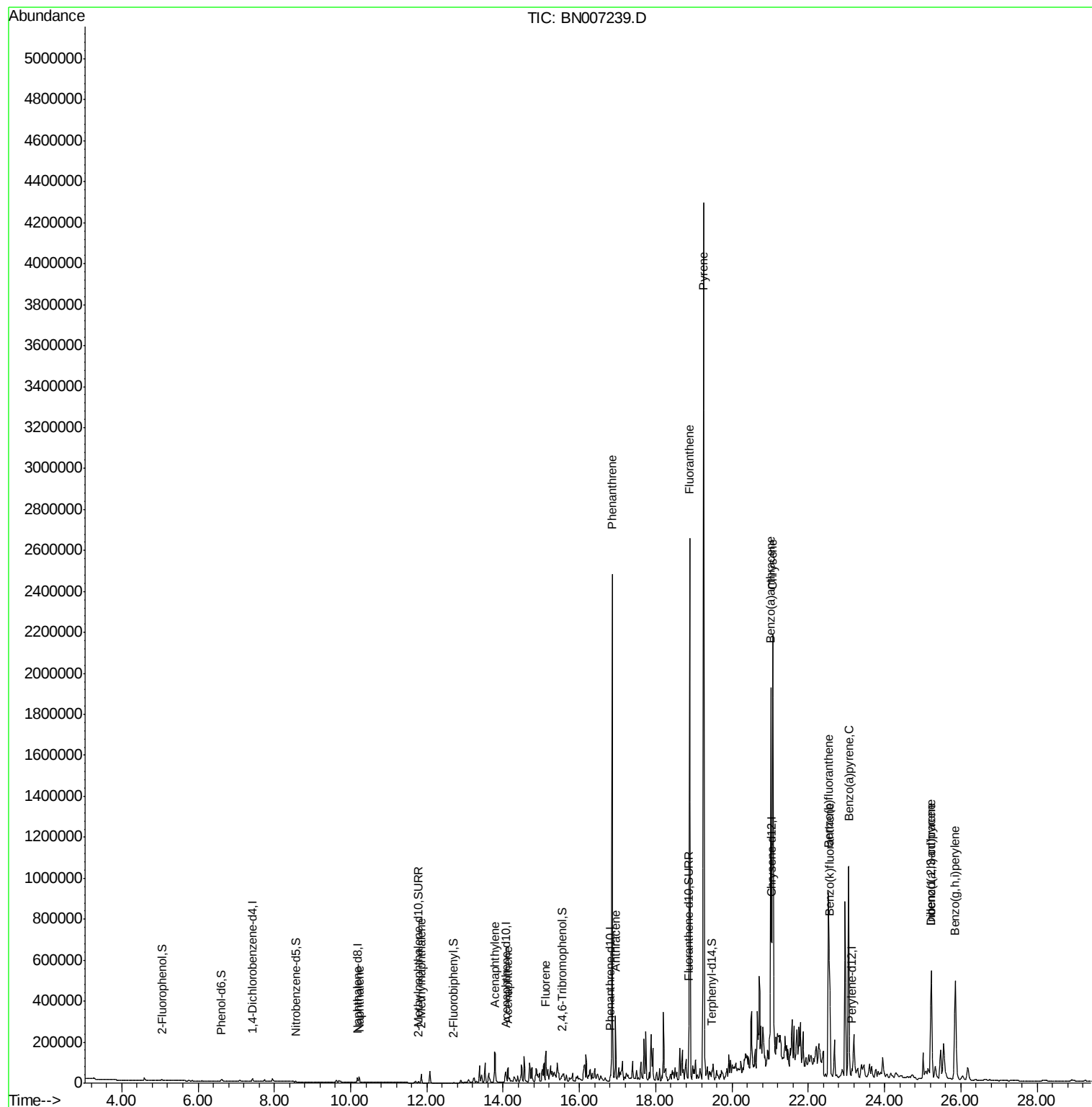
(#) = qualifier out of range (m) = manual integration (+) = signals summed

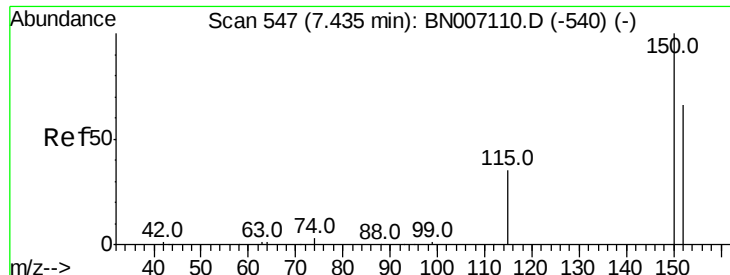
Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN081619\
Data File : BN007239.D
Acq On : 17 Aug 2019 02:04
Operator : HP/JU
Sample : K4282-12
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :

Quant Time: Aug 19 04:11:17 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

Manual Integrations
APPROVED





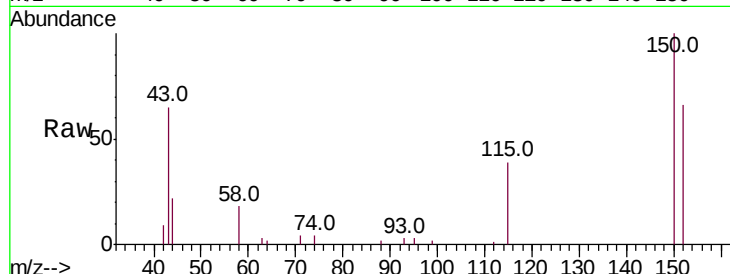
#1

1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.43 min Scan# 546
Delta R.T. -0.01 min
Lab File: BN007239.D
Acq: 17 Aug 2019 02:04

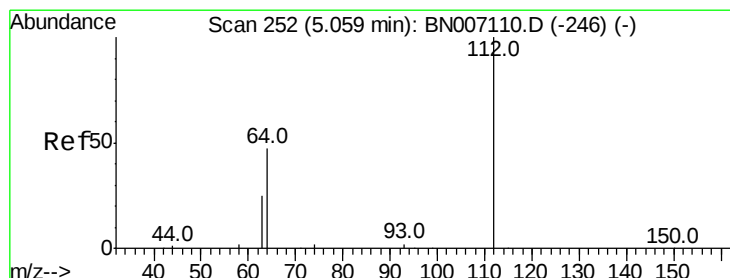
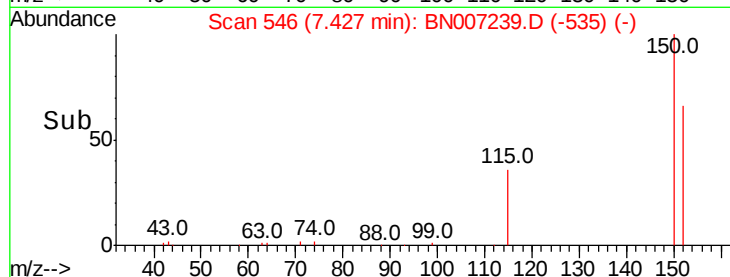
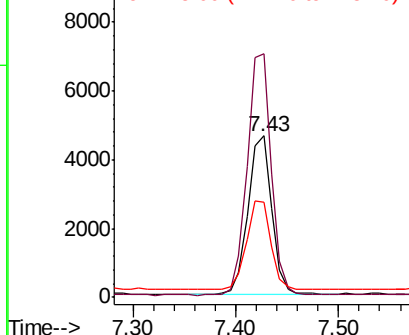
Instrument :
BNA_N
ClientSampled :

Tot Ion	Ratio	Lower	Upper
152	100		
150	150.9	121.7	182.5
115	59.2	46.2	69.4

Manual Integrations
APPROVED



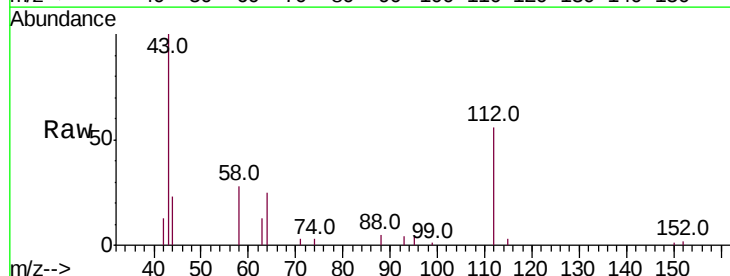
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



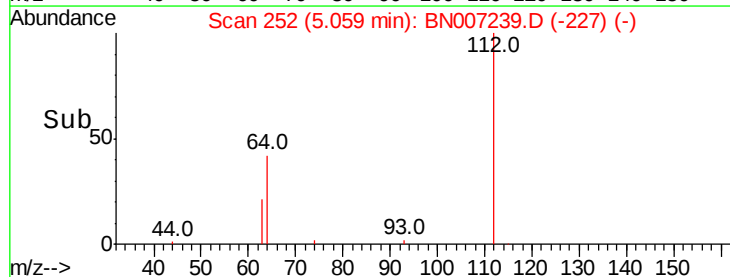
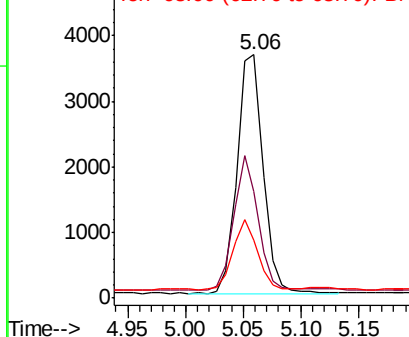
#3

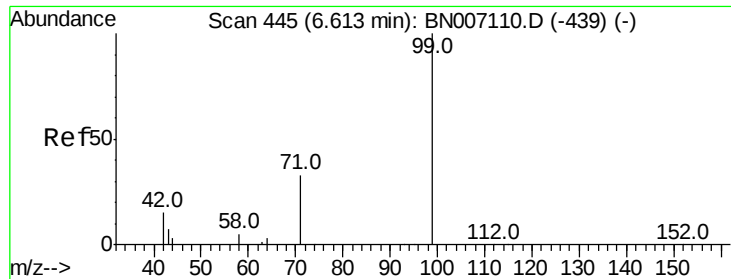
2-Fluorophenol
Concen: 0.319 ng
RT: 5.06 min Scan# 252
Delta R.T. -0.00 min
Lab File: BN007239.D
Acq: 17 Aug 2019 02:04

Tgt Ion	Ratio	Lower	Upper
112	100		
64	52.2	42.6	63.8
63	27.6	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: 0.342 ng

RT: 6.61 min Scan# 445

Delta R.T. -0.00 min

Lab File: BN007239.D

Acq: 17 Aug 2019 02:04

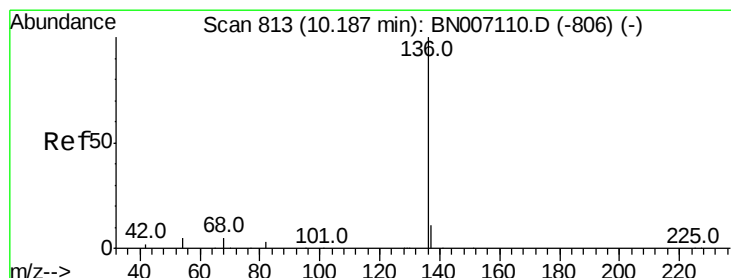
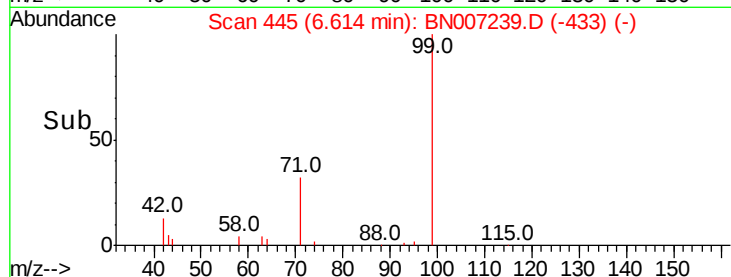
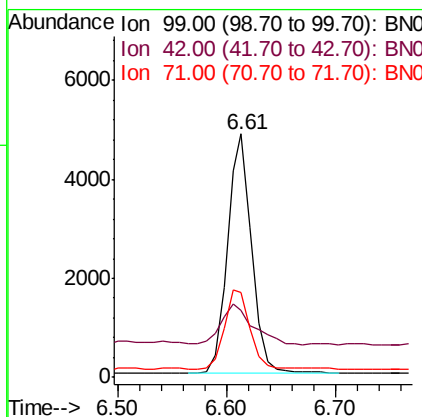
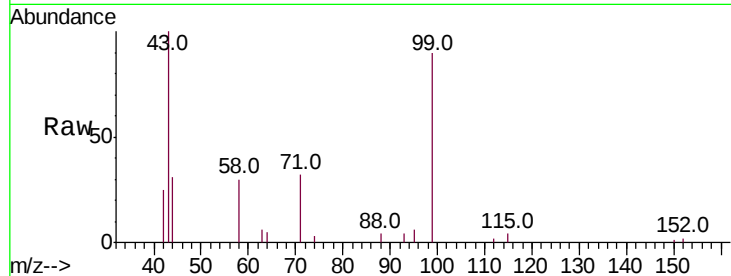
Instrument :

BNA_N

ClientSampleId :

Tot Ion:	99	Resp:	7531
Ion	Ratio	Lower	Upper
99	100		
42	22.6	15.8	23.6
71	34.9	27.0	40.4

Manual Integrations
APPROVED



#6

Naphthalene-d8

Concen: 0.400 ng

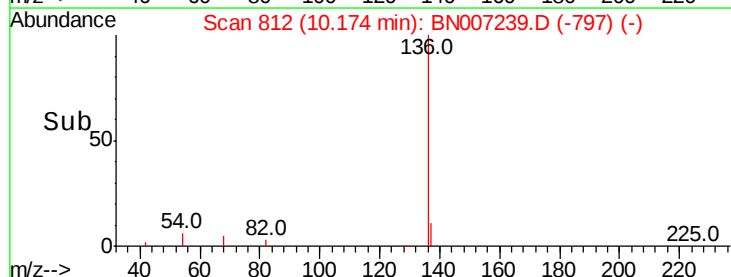
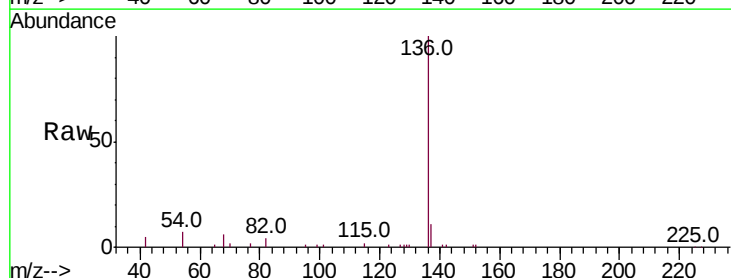
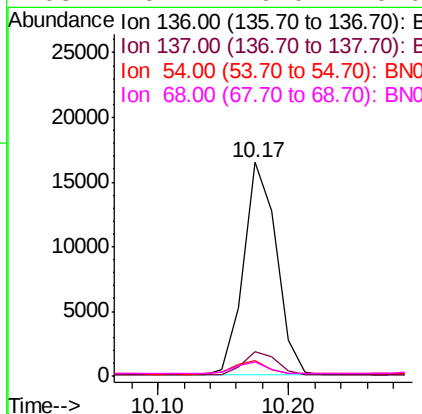
RT: 10.17 min Scan# 812

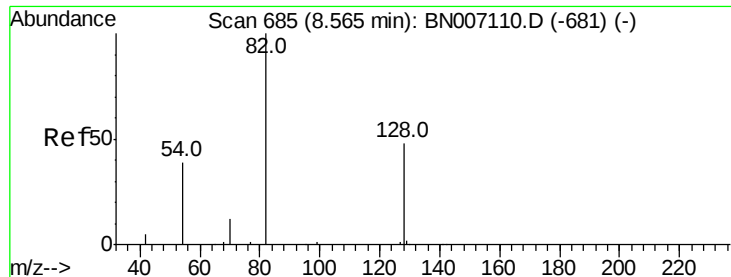
Delta R.T. -0.01 min

Lab File: BN007239.D

Acq: 17 Aug 2019 02:04

Tgt Ion:	136	Resp:	28718
Ion	Ratio	Lower	Upper
136	100		
137	11.2	9.4	14.0
54	7.2	6.6	9.8
68	6.4	6.0	9.0





#7

Nitrobenzene-d5

Concen: 0.269 ng

RT: 8.55 min Scan# 684

Delta R.T. -0.01 min

Lab File: BN007239.D

Acq: 17 Aug 2019 02:04

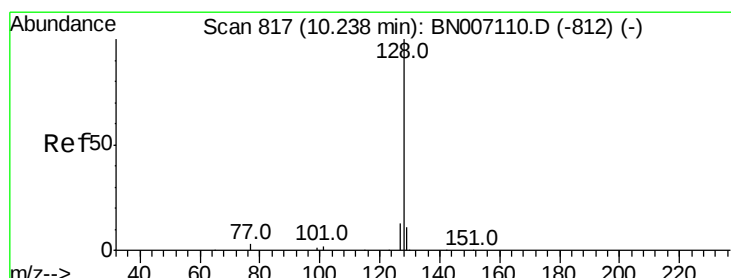
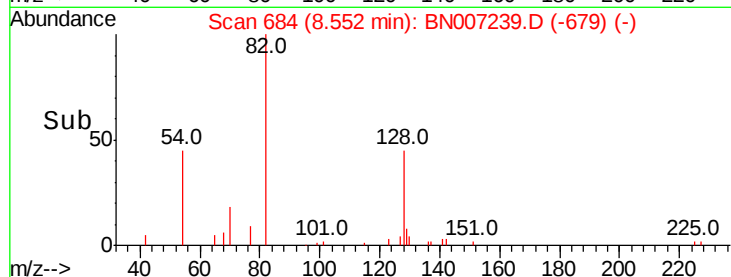
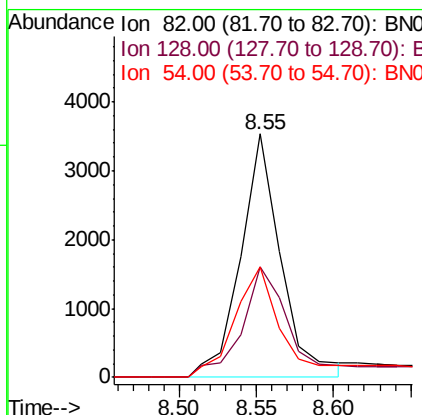
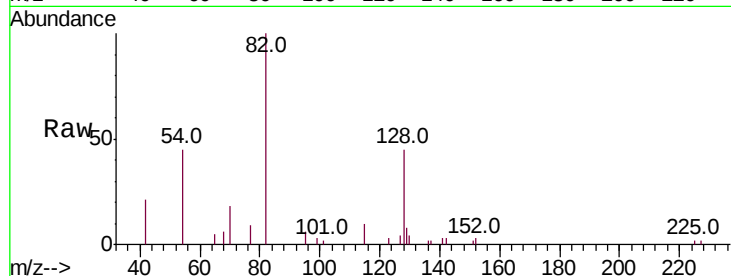
Instrument :

BNA_N

ClientSampleId :

Tot Ion:	82	Resp:	6220
Ion	Ratio	Lower	Upper
82	100		
128	45.3	34.6	51.8
54	45.2	36.2	54.4

Manual Integrations
APPROVED



#8

Naphthalene

Concen: 0.422 ng

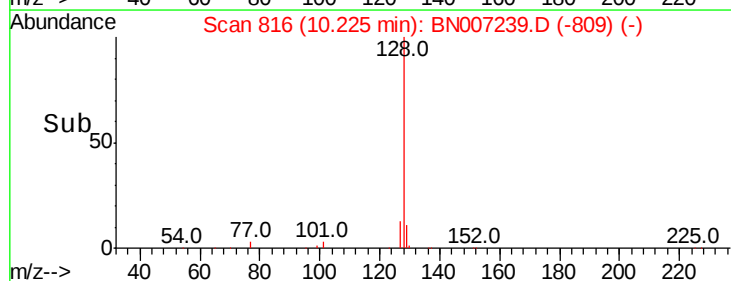
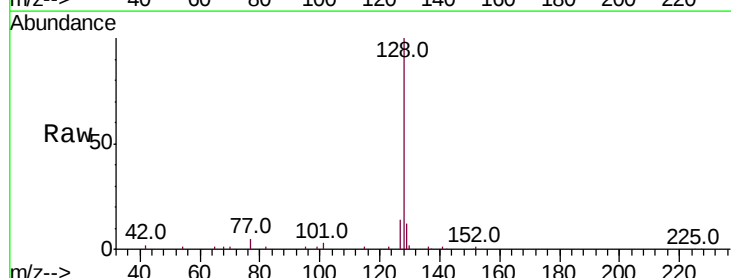
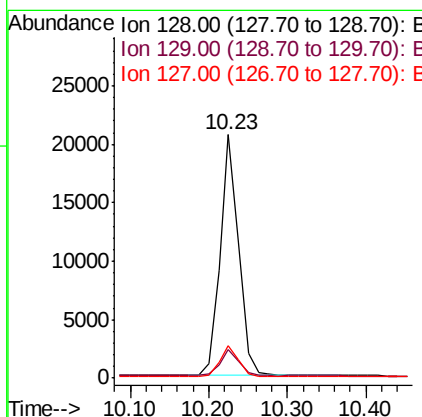
RT: 10.23 min Scan# 816

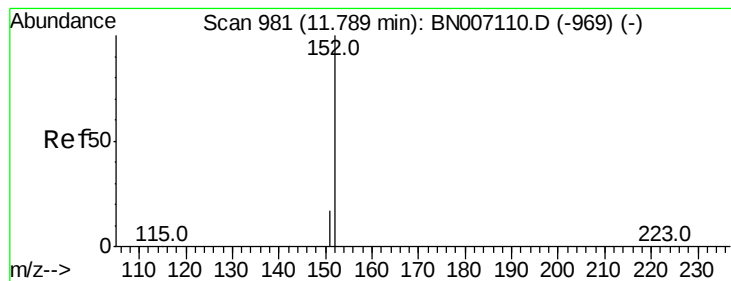
Delta R.T. -0.01 min

Lab File: BN007239.D

Acq: 17 Aug 2019 02:04

Tgt Ion:	128	Resp:	34003
Ion	Ratio	Lower	Upper
128	100		
129	11.5	9.4	14.2
127	13.6	11.0	16.6



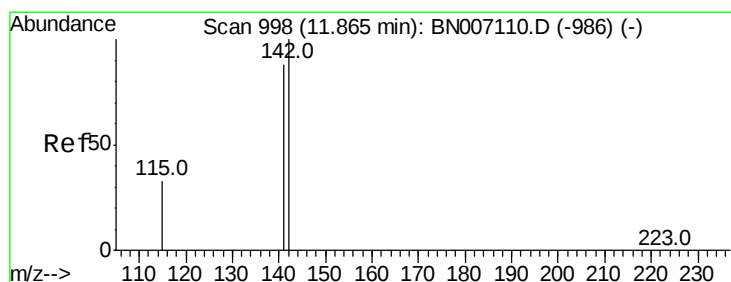
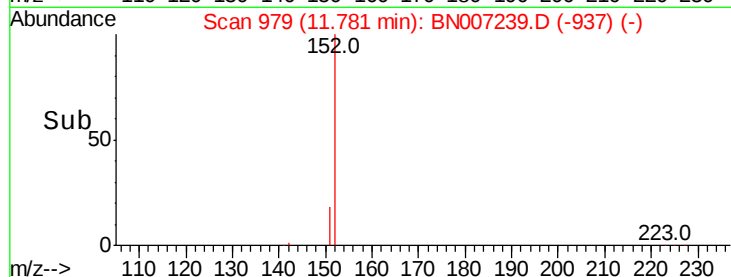
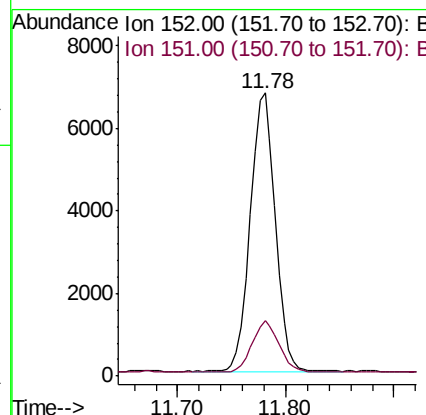
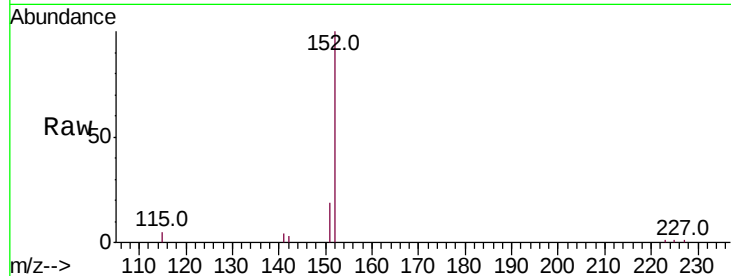


#10
 2-Methylnaphthalene-d10
 Concen: 0.203 ng
 RT: 11.78 min Scan# 979
 Delta R.T. -0.01 min
 Lab File: BN007239.D
 Acq: 17 Aug 2019 02:04

Instrument :
 BNA_N
 ClientSampleId :

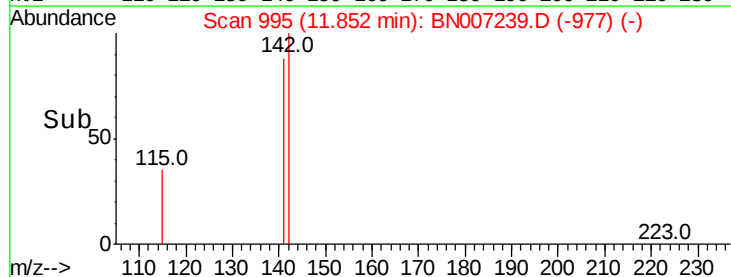
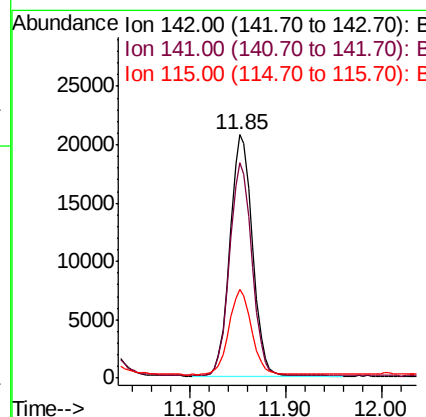
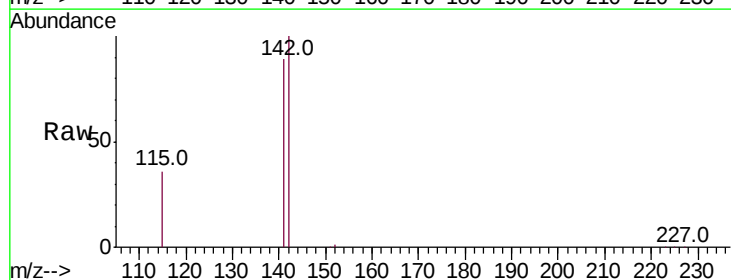
Tot Ion	Ratio	Lower	Upper
152	100		
151	19.4	15.5	23.3

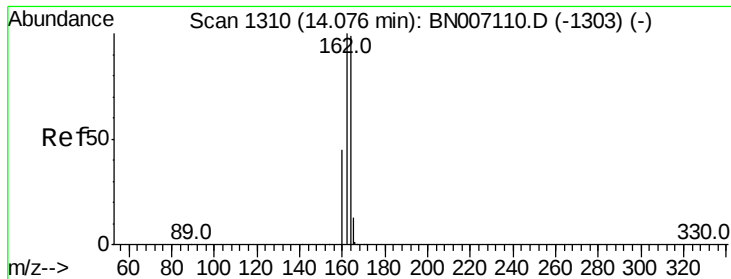
Manual Integrations
 APPROVED



#11
 2-Methylnaphthalene
 Concen: 0.588 ng
 RT: 11.85 min Scan# 995
 Delta R.T. -0.02 min
 Lab File: BN007239.D
 Acq: 17 Aug 2019 02:04

Tgt Ion	Ratio	Lower	Upper
142	100		
141	88.5	69.0	103.6
115	36.2	27.1	40.7





#12

Acenaphthene-d10

Concen: 0.400 ng

RT: 14.07 min Scan# 1309

Delta R.T. -0.01 min

Lab File: BN007239.D

Acq: 17 Aug 2019 02:04

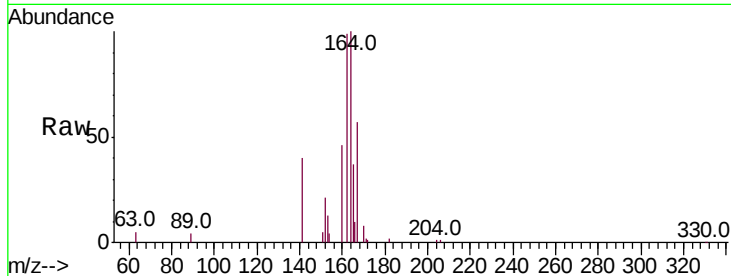
Instrument :

BNA_N

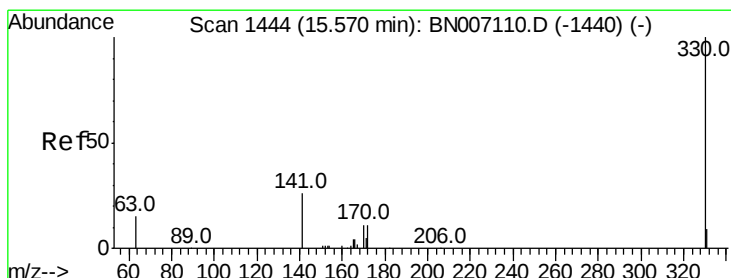
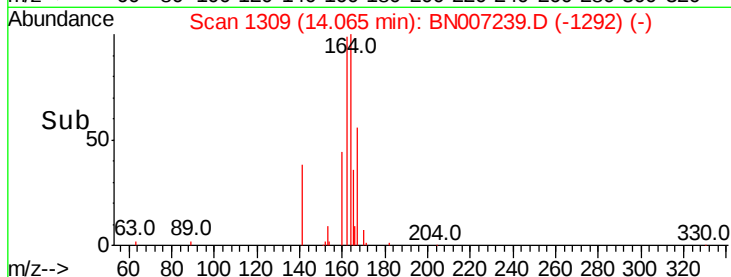
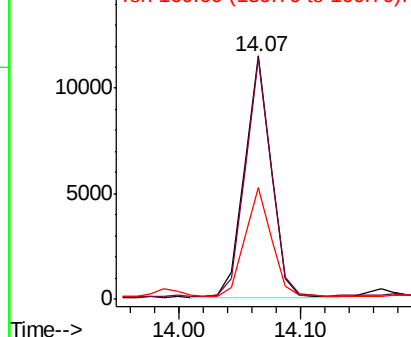
ClientSampleId :

Tot Ion:	164	Resp:	17387
Ion Ratio	Lower	Upper	
164	100		
162	99.2	82.2	123.4
160	45.8	38.3	57.5

Manual Integrations
APPROVED



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: 0.226 ng

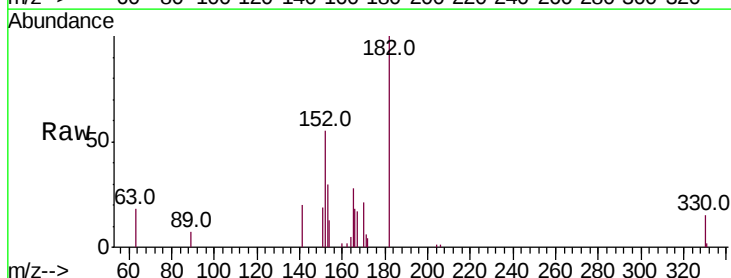
RT: 15.56 min Scan# 1443

Delta R.T. -0.01 min

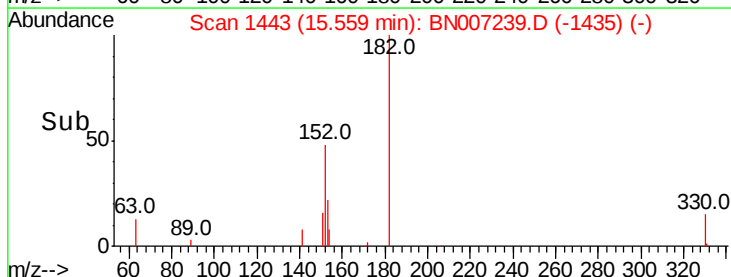
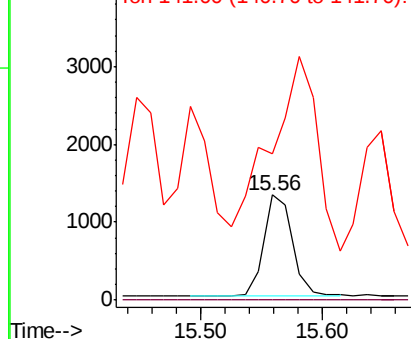
Lab File: BN007239.D

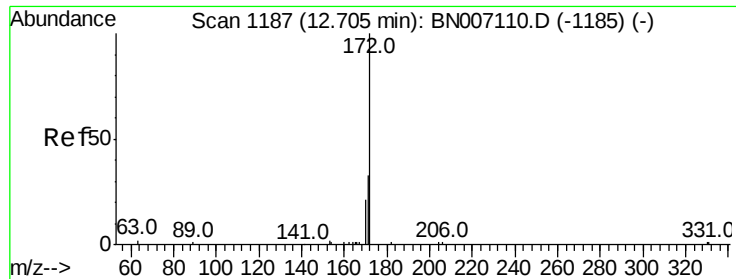
Acq: 17 Aug 2019 02:04

Tgt Ion:	330	Resp:	2112
Ion Ratio	Lower	Upper	
330	100		
332	0.0	0.0	0.0
141	0.0	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



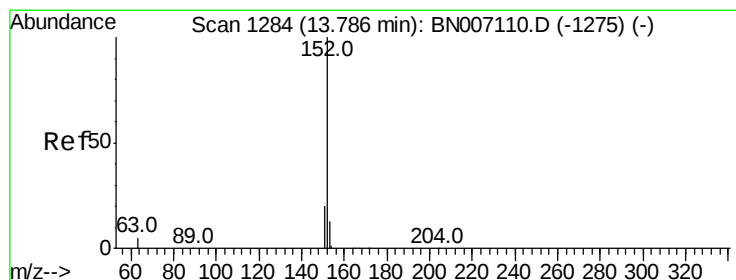
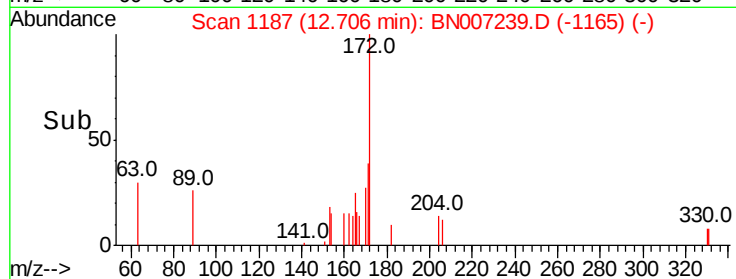
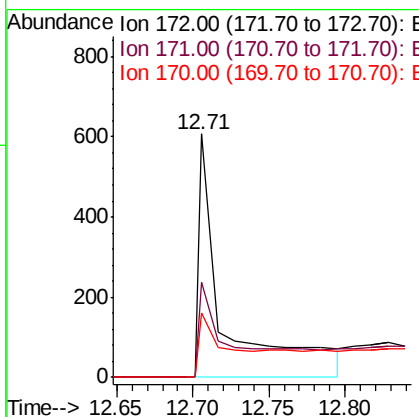
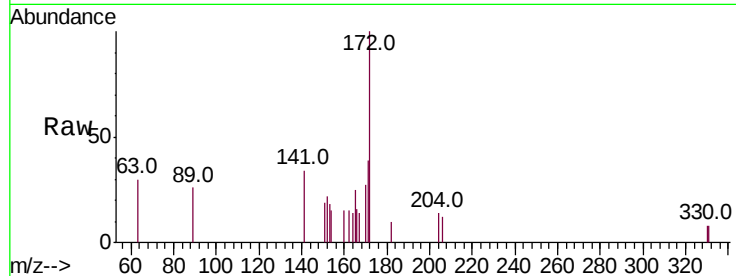


#14
2-Fluorobiphenyl
Concen: 0.030 ng
RT: 12.71 min Scan# 1187
Delta R.T. -0.00 min
Lab File: BN007239.D
Acq: 17 Aug 2019 02:04

Instrument :
BNA_N
ClientSampleId :

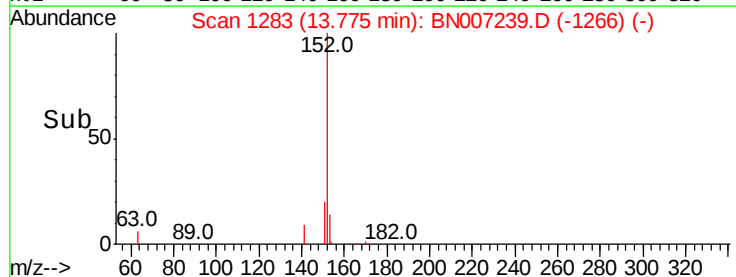
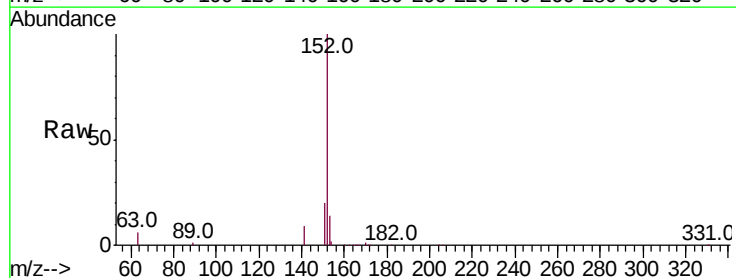
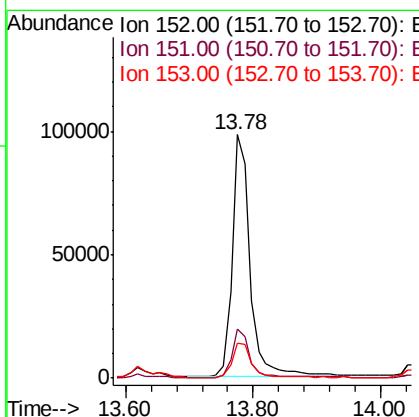
Tot Ion	Ratio	Lower	Upper
172	100		
171	38.9	26.3	39.5
170	26.5	17.0	25.4

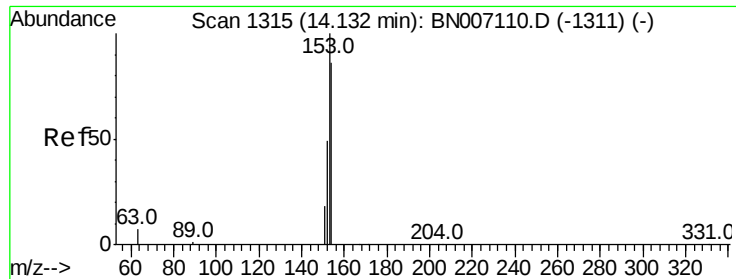
Manual Integrations
APPROVED



#15
Acenaphthylene
Concen: 2.130 ng
RT: 13.78 min Scan# 1283
Delta R.T. -0.01 min
Lab File: BN007239.D
Acq: 17 Aug 2019 02:04

Tgt Ion	Ratio	Lower	Upper
152	100		
151	19.8	15.8	23.6
153	15.0	10.4	15.6





#16

Acenaphthene

Concen: 0.655 ng

RT: 14.13 min Scan# 1315

Delta R.T. -0.01 min

Lab File: BN007239.D

Acq: 17 Aug 2019 02:04

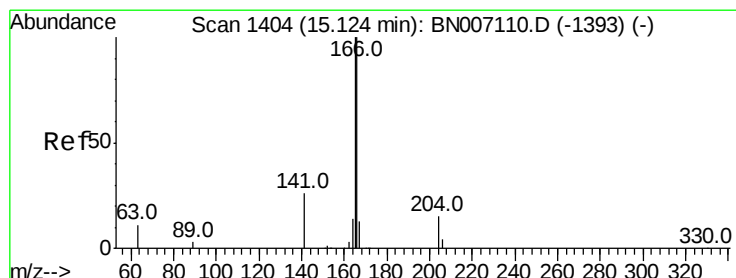
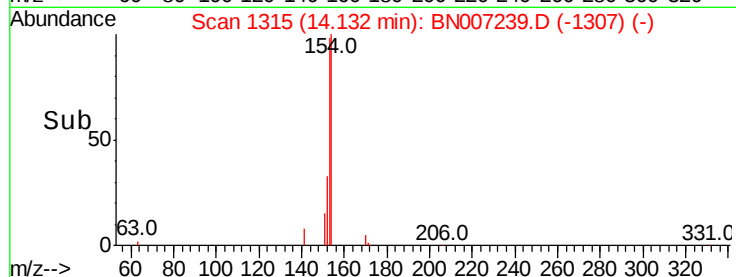
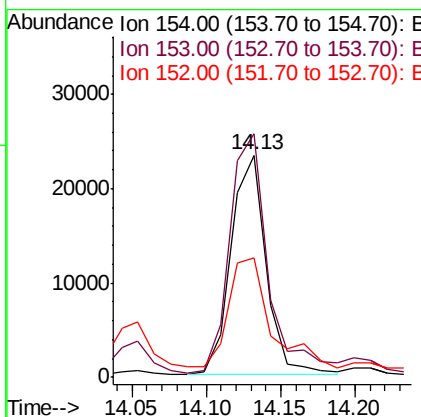
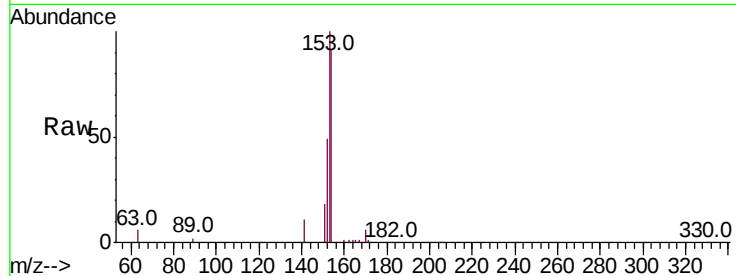
Instrument :

BNA_N

ClientSampleId :

Tot Ion:	154	Resp:	38133
Ion Ratio	Lower	Upper	
154	100		
153	118.3	89.5	134.3
152	59.5	44.8	67.2

Manual Integrations
APPROVED



#17

Fluorene

Concen: 1.021 ng

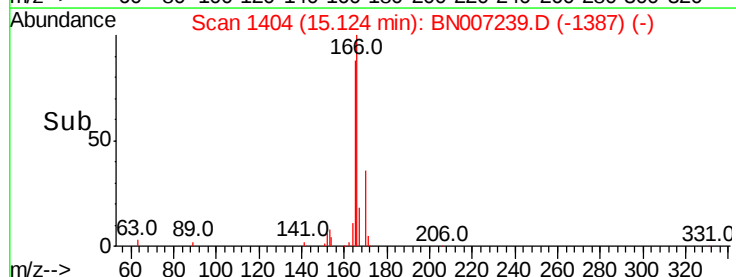
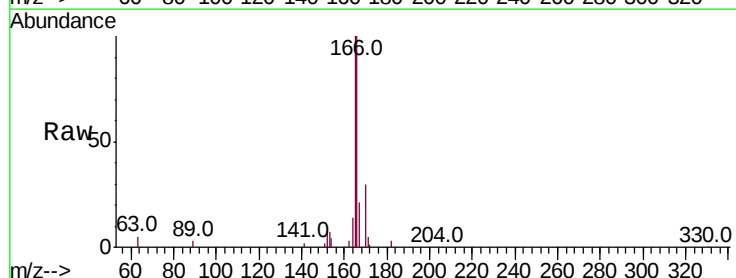
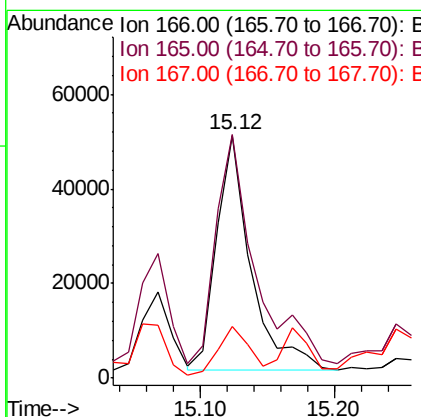
RT: 15.12 min Scan# 1404

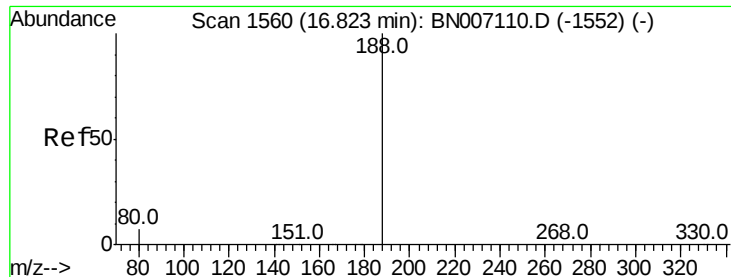
Delta R.T. -0.01 min

Lab File: BN007239.D

Acq: 17 Aug 2019 02:04

Tgt Ion:	166	Resp:	88953
Ion Ratio	Lower	Upper	
166	100		
165	112.0	77.9	116.9
167	18.6	10.9	16.3#





#18

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.81 min Scan# 1559

Delta R.T. -0.01 min

Lab File: BN007239.D

Acq: 17 Aug 2019 02:04

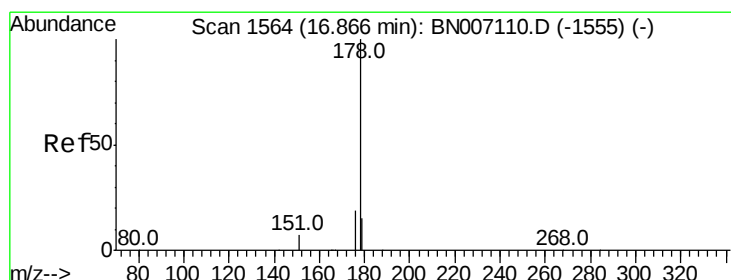
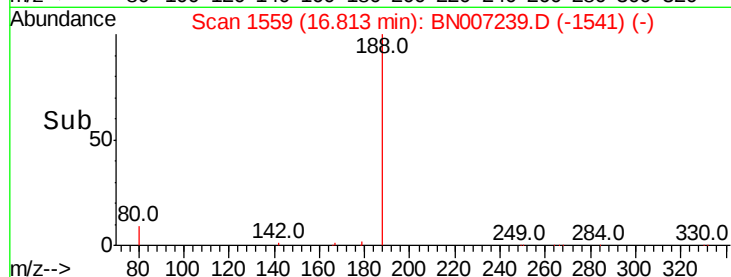
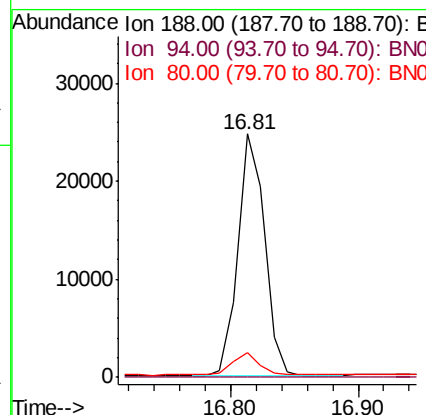
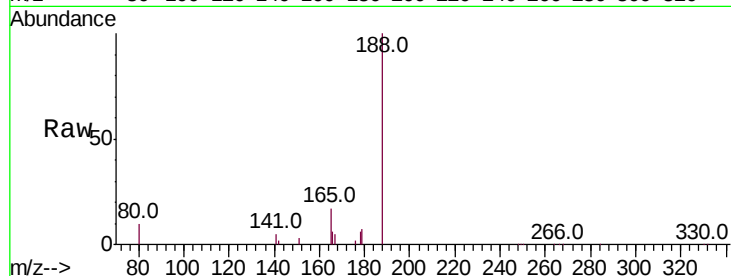
Instrument :

BNA_N

ClientSampleId :

Tot Ion:	188	Resp:	35861
Ion Ratio	Lower	Upper	
188	100		
94	0.0	0.0	0.0
80	10.4	7.8	11.6

Manual Integrations
APPROVED



#22

Phenanthrene

Concen: 23.839 ng

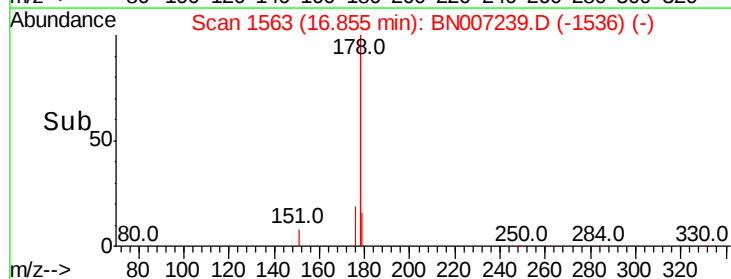
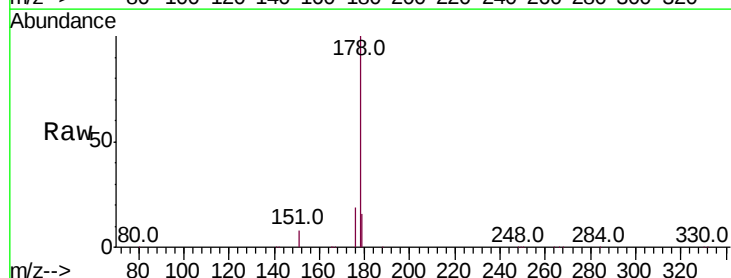
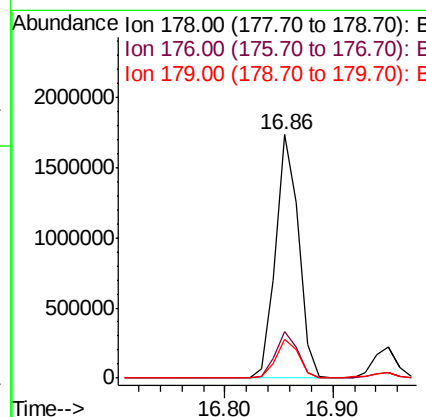
RT: 16.86 min Scan# 1563

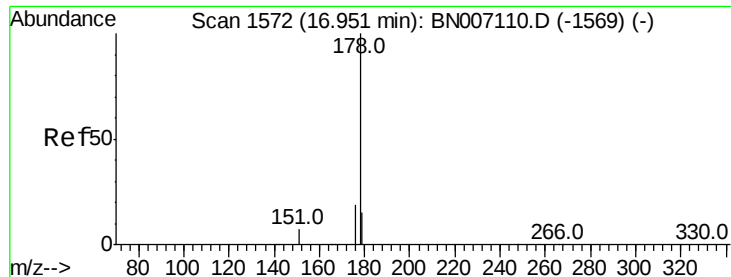
Delta R.T. -0.01 min

Lab File: BN007239.D

Acq: 17 Aug 2019 02:04

Tgt Ion:	178	Resp:	2562017
Ion Ratio	Lower	Upper	
178	100		
176	18.9	15.2	22.8
179	15.9	12.3	18.5



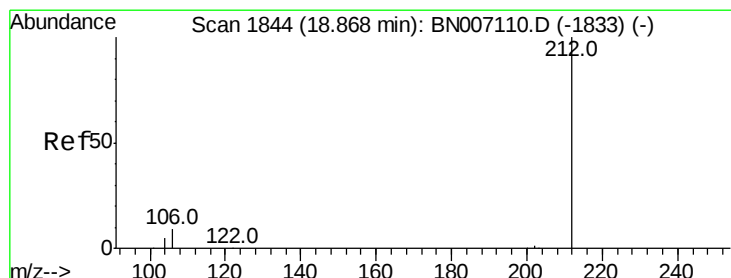
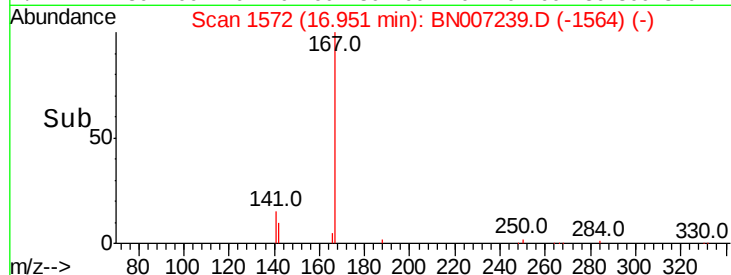
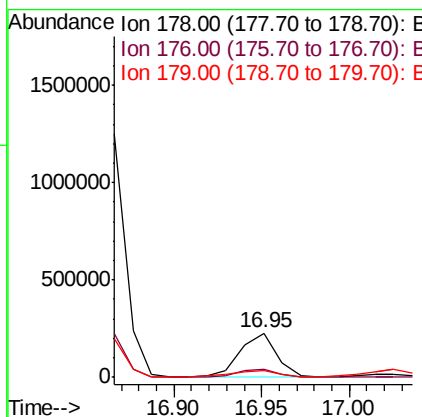
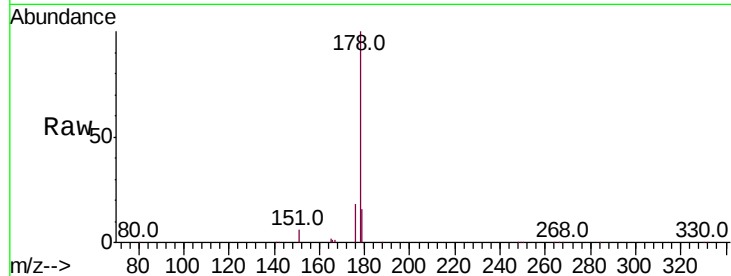


#23
 Anthracene
 Concen: 3.234 ng
 RT: 16.95 min Scan# 1572
 Delta R.T. -0.01 min
 Lab File: BN007239.D
 Acq: 17 Aug 2019 02:04

Instrument :
 BNA_N
 ClientSampleId :

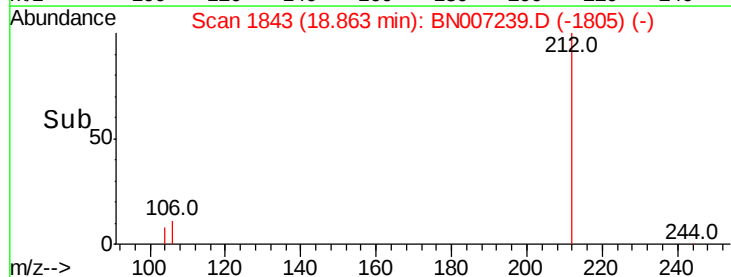
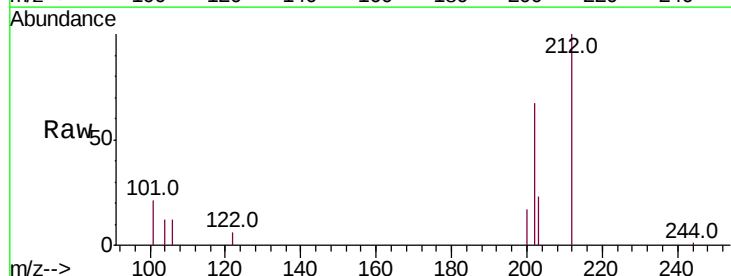
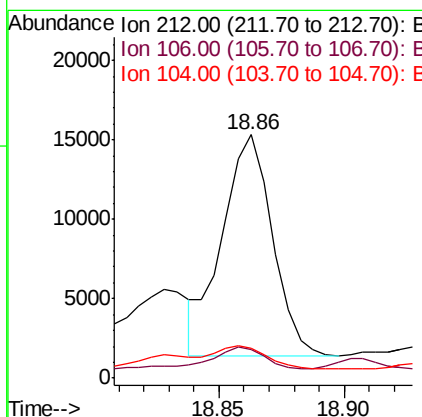
Tot Ion	Ratio	Lower	Upper
178	100		
176	18.5	14.6	21.8
179	17.0	12.5	18.7

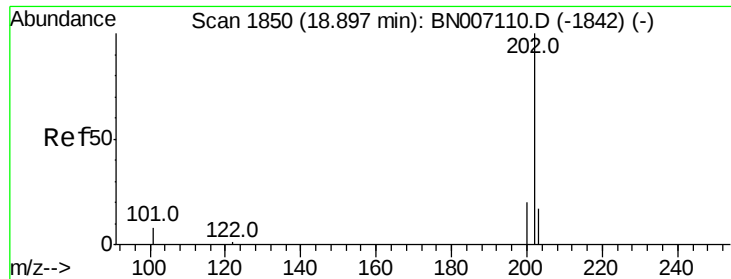
Manual Integrations
 APPROVED



#24
 Fluoranthene-d10
 Concen: 0.153 ng
 RT: 18.86 min Scan# 1843
 Delta R.T. -0.01 min
 Lab File: BN007239.D
 Acq: 17 Aug 2019 02:04

Tgt Ion	Ratio	Lower	Upper
212	100		
106	12.2	8.2	12.2
104	10.8	4.5	6.7#



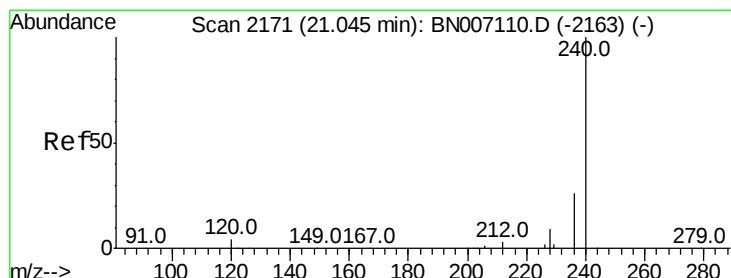
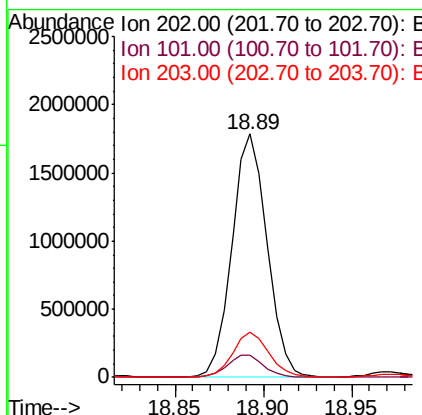
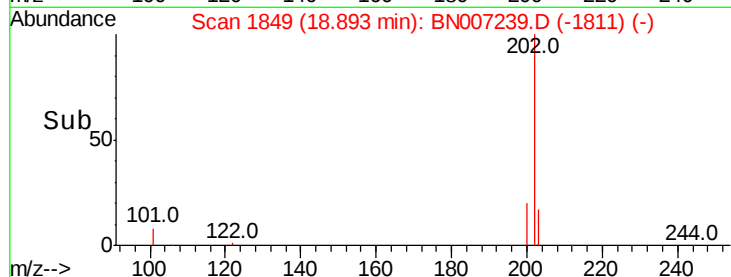
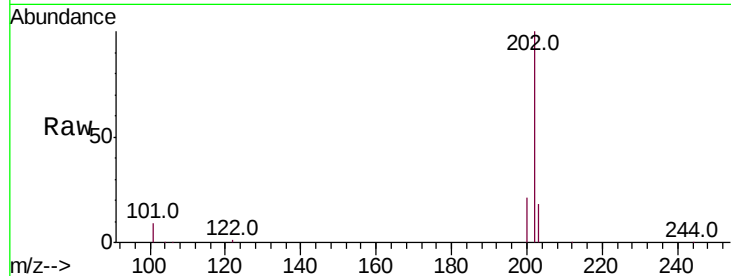


#25
 Fluoranthene
 Concen: 17.856 ng
 RT: 18.89 min Scan# 1849
 Delta R.T. -0.01 min
 Lab File: BN007239.D
 Acq: 17 Aug 2019 02:04

Instrument :
 BNA_N
 ClientSampleId :

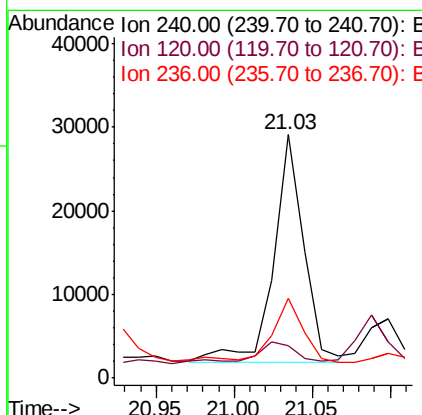
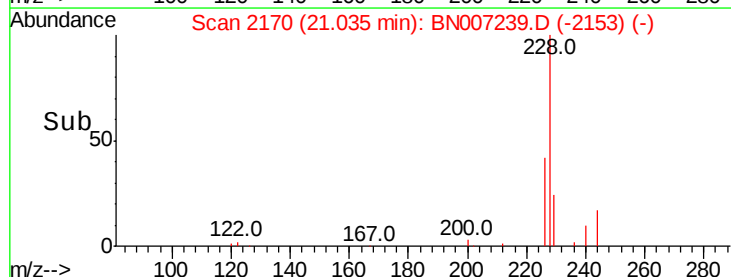
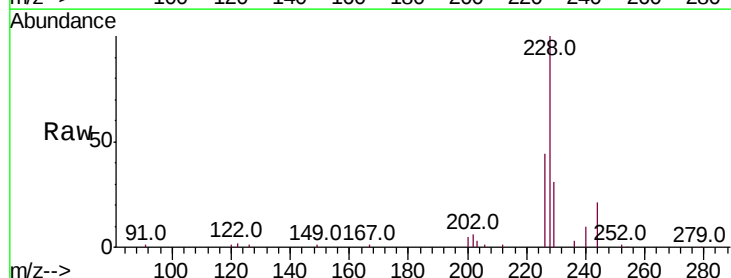
Tot Ion	Ratio	Lower	Upper
202	100		
101	9.1	7.0	10.4
203	18.5	13.8	20.8

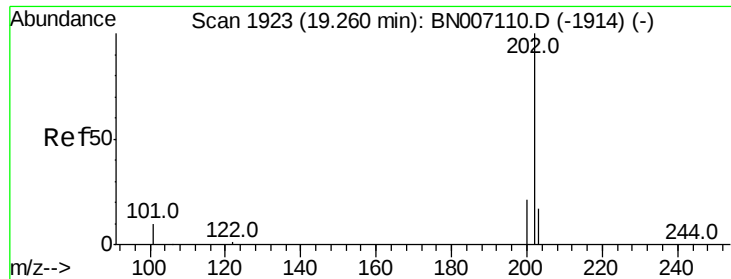
Manual Integrations
 APPROVED



#26
 Chrysene-d12
 Concen: 0.400 ng
 RT: 21.03 min Scan# 2170
 Delta R.T. -0.02 min
 Lab File: BN007239.D
 Acq: 17 Aug 2019 02:04

Tgt Ion	Ratio	Lower	Upper
240	100		
120	13.1	4.0	6.0#
236	32.9	21.3	31.9#



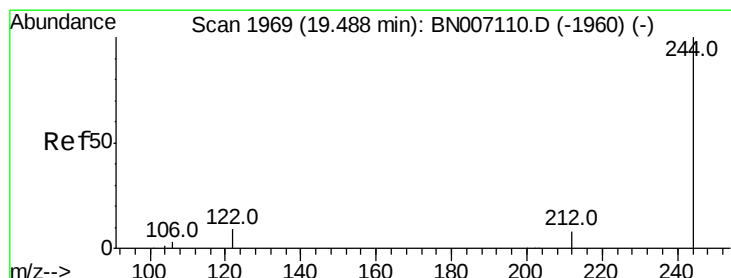
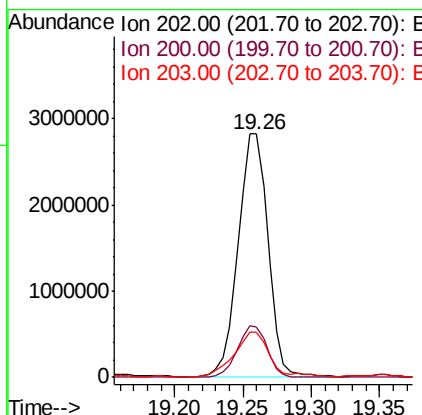
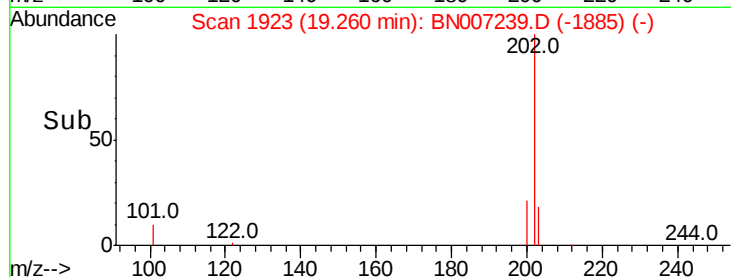
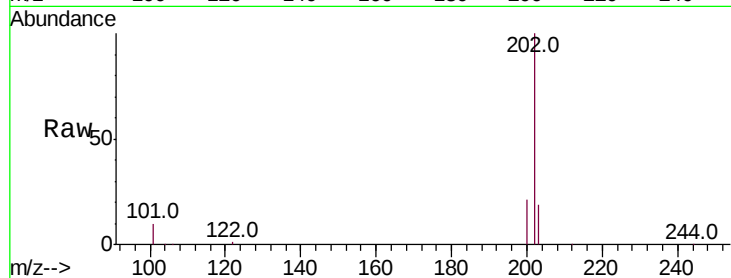


#27
Pvrene
Concen: 33.456 ng
RT: 19.26 min Scan# 1923
Delta R.T. -0.01 min
Lab File: BN007239.D
Acq: 17 Aug 2019 02:04

Instrument :
BNA_N
ClientSampleId :

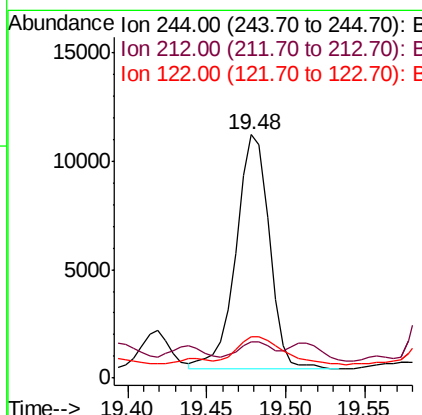
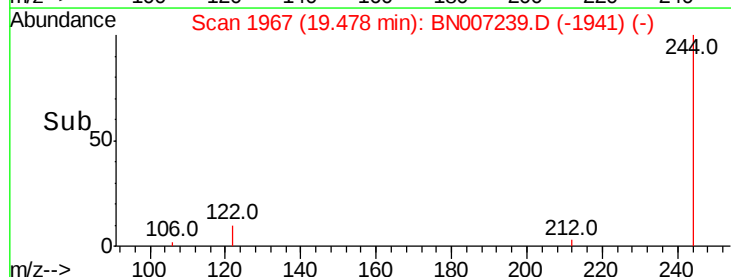
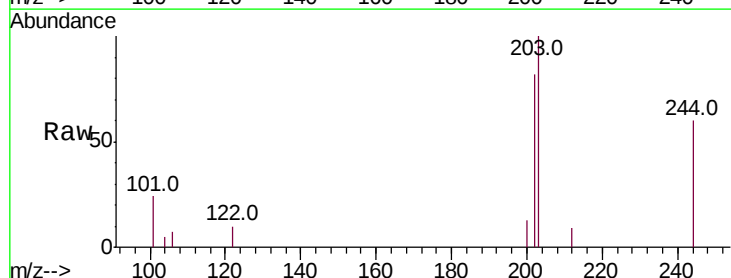
Tot Ion	Ratio	Lower	Upper
202	100		
200	21.1	16.6	24.8
203	22.1	14.0	21.0#

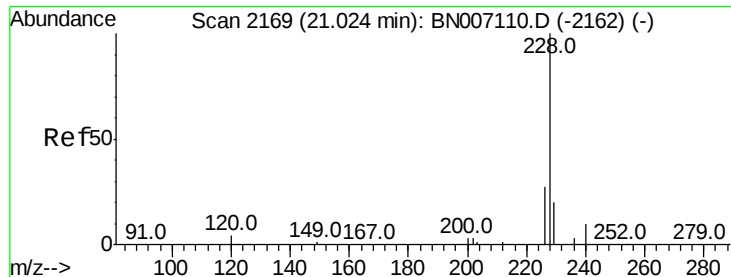
Manual Integrations
APPROVED



#28
Terphenyl-d14
Concen: 0.159 ng
RT: 19.48 min Scan# 1967
Delta R.T. -0.02 min
Lab File: BN007239.D
Acq: 17 Aug 2019 02:04

Tgt Ion	Ratio	Lower	Upper
244	100		
212	14.8	6.2	9.2#
122	16.9	7.4	11.2#





#29

Benzo(a)anthracene

Concen: 14.064 ng

RT: 21.02 min Scan# 2169

Delta R.T. -0.01 min

Lab File: BN007239.D

Acq: 17 Aug 2019 02:04

Instrument :

BNA_N

ClientSampleId :

Tot Ion:228 Resp: 1876766

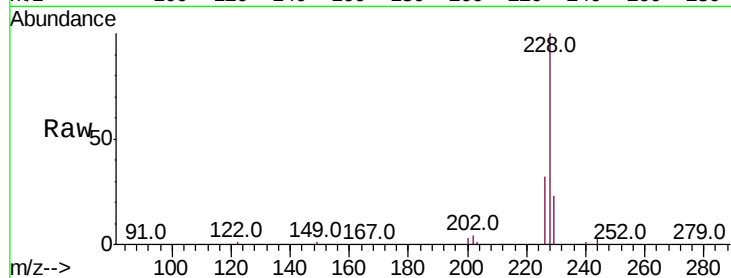
Ion Ratio Lower Upper

228 100

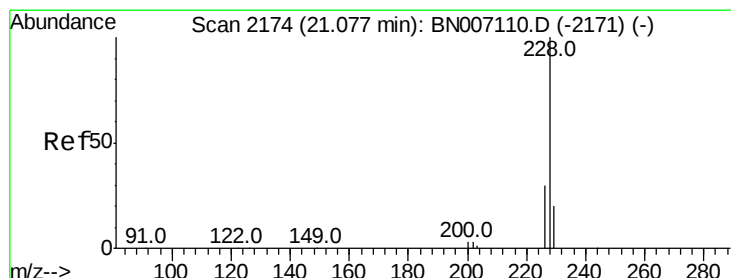
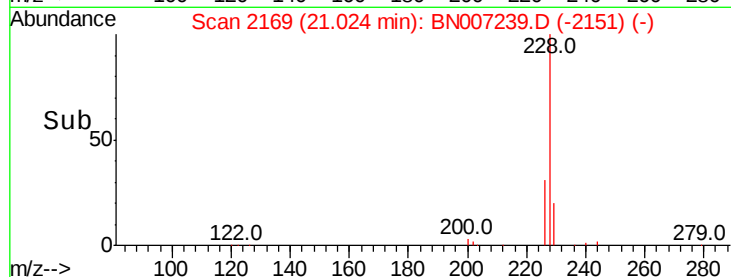
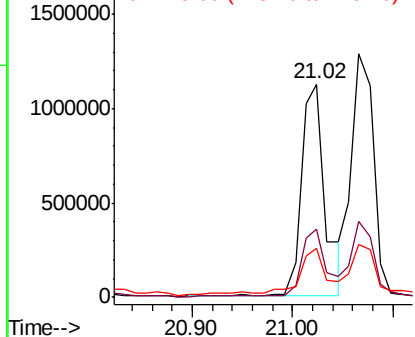
226 32.0 21.8 32.6

229 22.9 15.6 23.4

Manual Integrations
APPROVED



Abundance Ion 228.00 (227.70 to 228.70): E
Ion 226.00 (225.70 to 226.70): E
Ion 229.00 (228.70 to 229.70): E



#30

Chrysene

Concen: 15.150 ng

RT: 21.07 min Scan# 2173

Delta R.T. -0.02 min

Lab File: BN007239.D

Acq: 17 Aug 2019 02:04

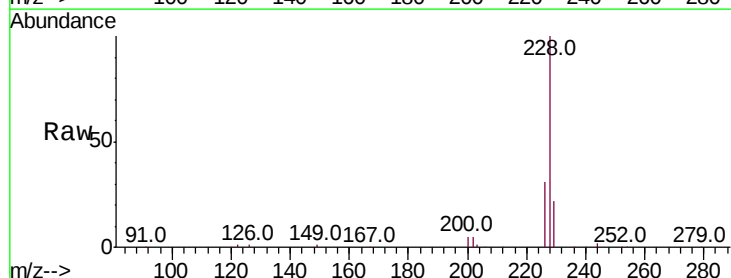
Tgt Ion:228 Resp: 1964219

Ion Ratio Lower Upper

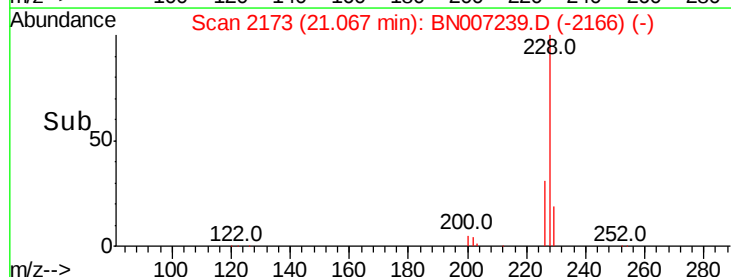
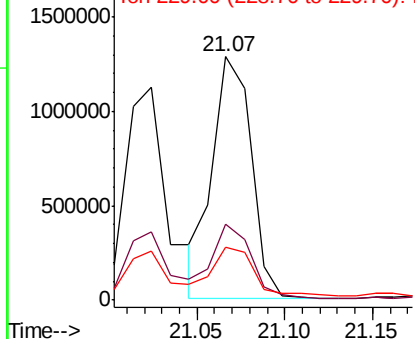
228 100

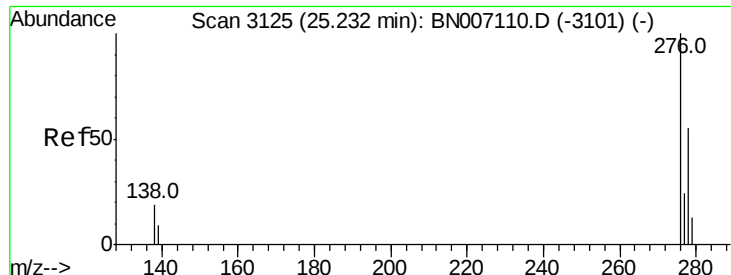
226 31.3 23.8 35.6

229 21.6 15.7 23.5



Abundance Ion 228.00 (227.70 to 228.70): E
Ion 226.00 (225.70 to 226.70): E
Ion 229.00 (228.70 to 229.70): E





#31

Indeno(1,2,3-cd)pyrene

Concen: 5.452 ng

RT: 25.23 min Scan# 3123

Delta R.T. -0.03 min

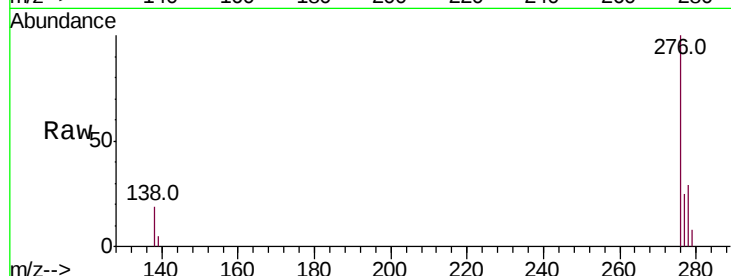
Lab File: BN007239.D

Acq: 17 Aug 2019 02:04

Instrument :

BNA_N

ClientSampleId :



Tot Ion:276 Resp: 779047

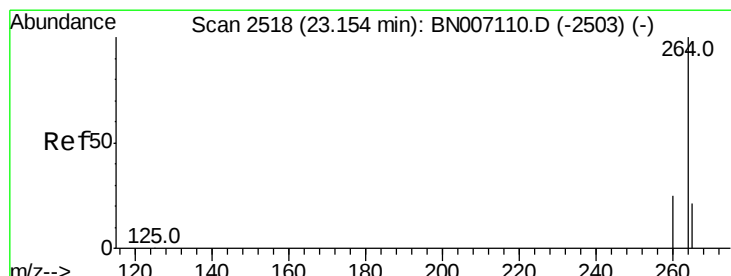
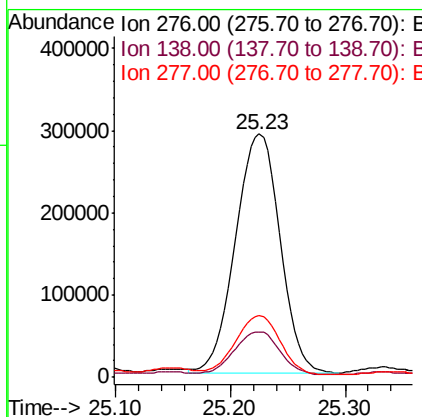
Ion Ratio Lower Upper

276 100

138 18.5 16.0 24.0

277 25.1 19.9 29.9

Manual Integrations
APPROVED



#32

Perylene-d12

Concen: 0.400 ng

RT: 23.15 min Scan# 2516

Delta R.T. -0.02 min

Lab File: BN007239.D

Acq: 17 Aug 2019 02:04

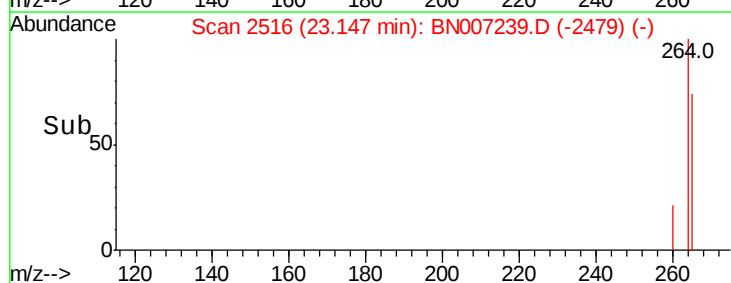
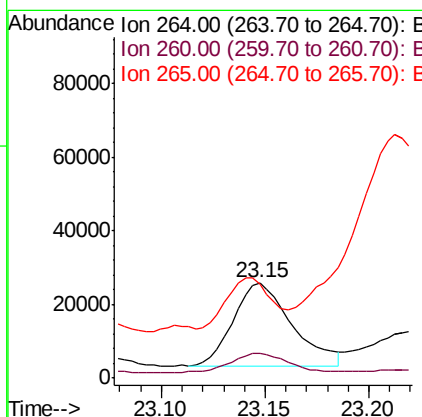
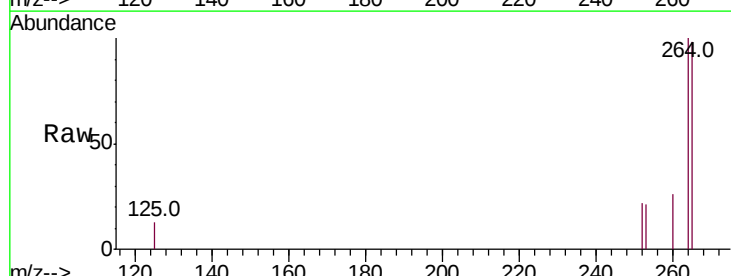
Tgt Ion:264 Resp: 44236

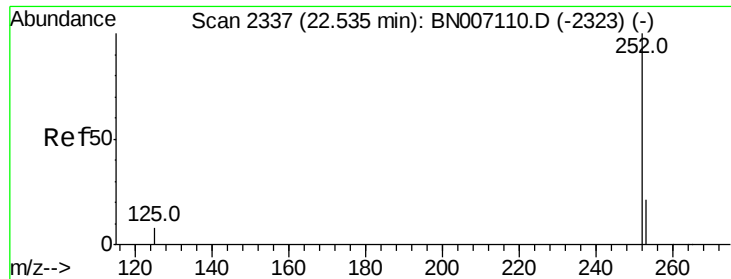
Ion Ratio Lower Upper

264 100

260 26.5 19.8 29.8

265 98.4 26.2 39.4#





#33

Benzo(b)fluoranthene

Concen: 11.153 ng m

RT: 22.53 min Scan# 2336

Delta R.T. -0.02 min

Lab File: BN007239.D

Acq: 17 Aug 2019 02:04

Instrument :

BNA_N

ClientSampled :

Tot Ion:252 Resp: 1691854

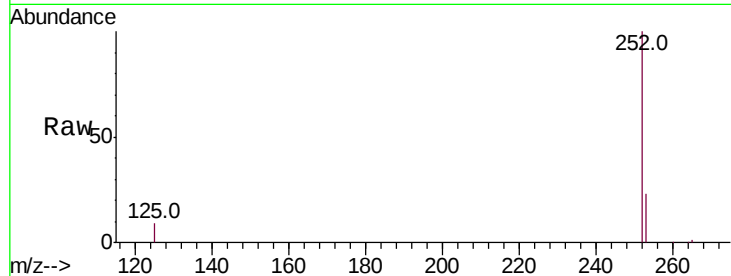
Ion Ratio Lower Upper

252 100

253 22.9 18.2 27.2

125 9.0 7.4 11.0

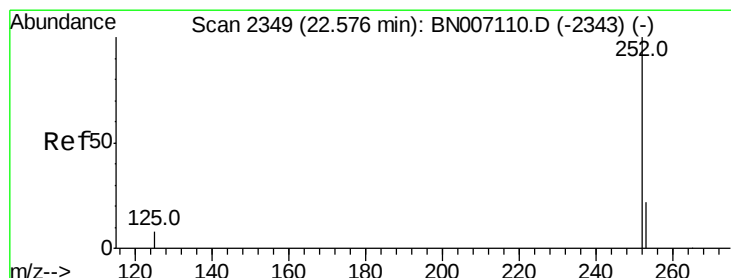
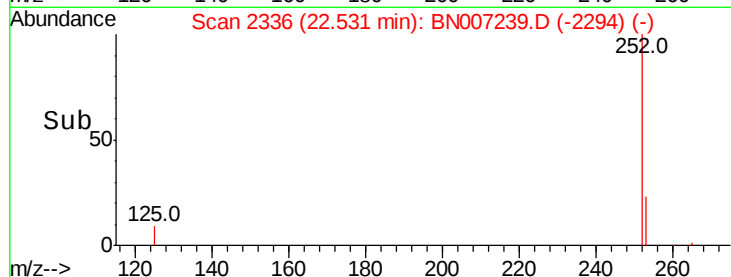
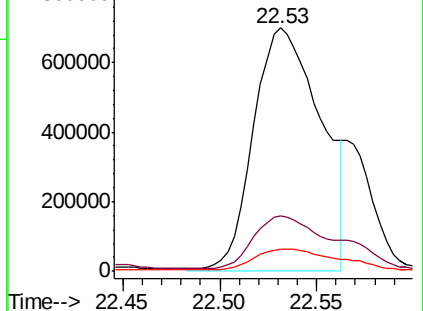
Manual Integrations
APPROVED



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



#34

Benzo(k)fluoranthene

Concen: 3.161 ng m

RT: 22.56 min Scan# 2344

Delta R.T. -0.03 min

Lab File: BN007239.D

Acq: 17 Aug 2019 02:04

Tgt Ion:252 Resp: 473593

Ion Ratio Lower Upper

252 100

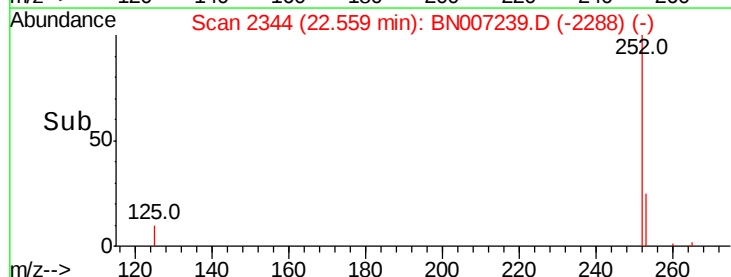
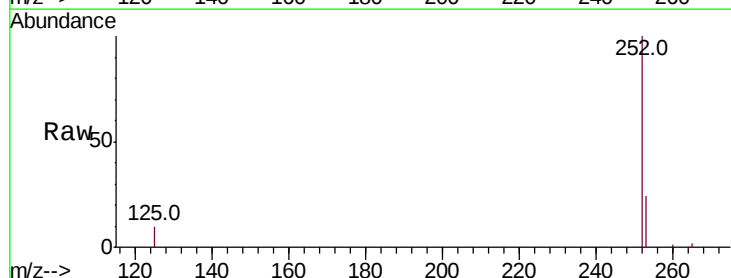
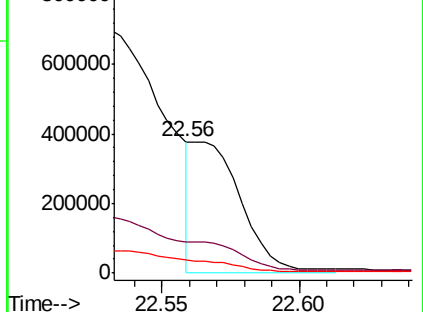
253 23.6 18.1 27.1

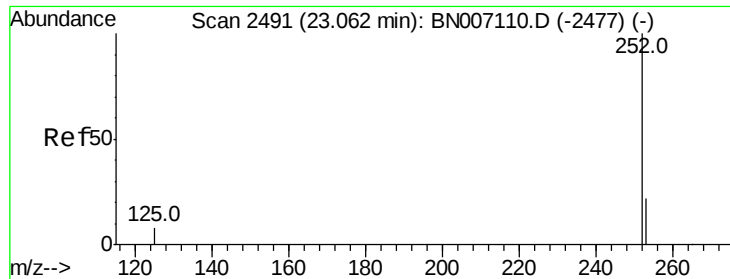
125 9.6 7.4 11.0

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





#35

Benzo(a)pyrene

Concen: 10.094 ng

RT: 23.06 min Scan# 2490

Delta R.T. -0.02 min

Lab File: BN007239.D

Acq: 17 Aug 2019 02:04

Instrument :

BNA_N

ClientSampled :

Tot Ion:252 Resp: 1388148

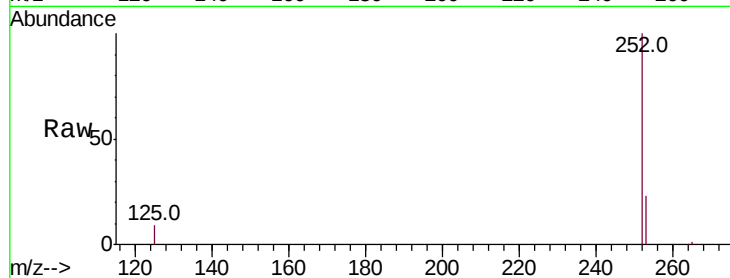
Ion Ratio Lower Upper

252 100

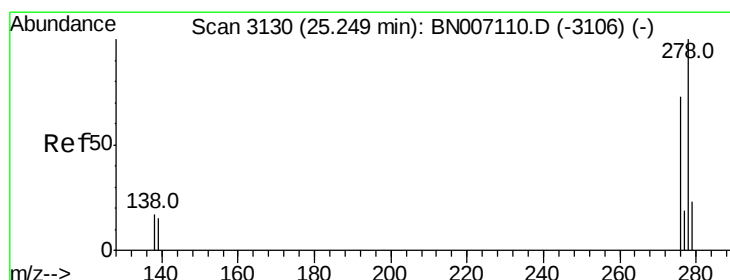
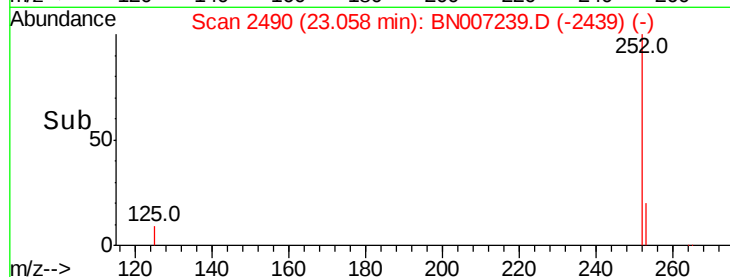
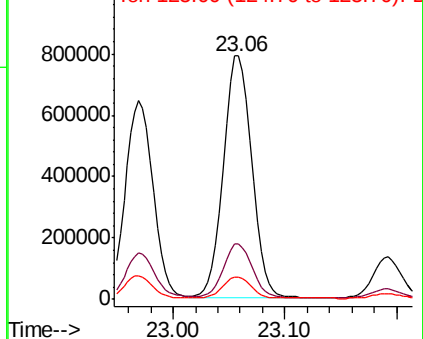
253 22.8 18.5 27.7

125 9.1 8.2 12.4

Manual Integrations
APPROVED



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

Dibenzo(a,h)anthracene

Concen: 1.843 ng

RT: 25.23 min Scan# 3125

Delta R.T. -0.04 min

Lab File: BN007239.D

Acq: 17 Aug 2019 02:04

Tgt Ion:278 Resp: 252821

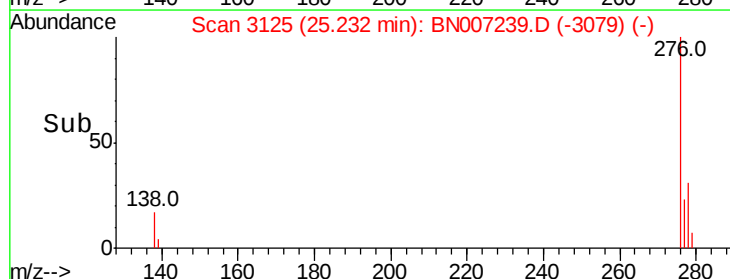
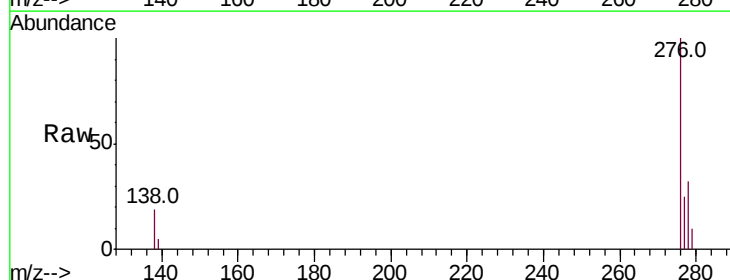
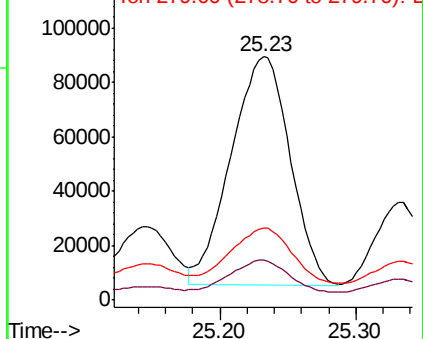
Ion Ratio Lower Upper

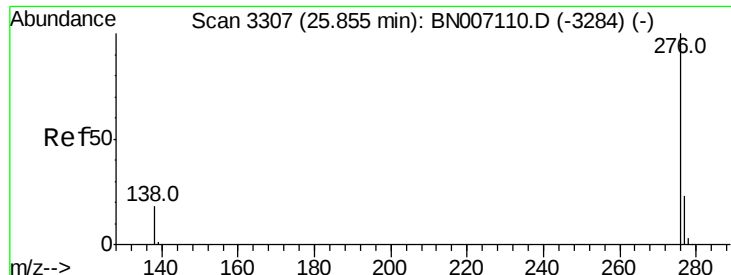
278 100

139 16.4 11.3 16.9

279 29.8 19.3 28.9#

Abundance Ion 278.00 (277.70 to 278.70): E
Ion 139.00 (138.70 to 139.70): E
Ion 279.00 (278.70 to 279.70): E





#37
 Benzo(a,h,i)perylene
 Concen: 6.923 ng
 RT: 25.86 min Scan# 3308
 Delta R.T. -0.02 min
 Lab File: BN007239.D
 Acq: 17 Aug 2019 02:04

Instrument :
 BNA_N
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
276	100		
277	24.6	19.8	29.8
138	18.5	14.6	22.0

Manual Integrations
 APPROVED

