

Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN081619\
 Data File : BN007241.D
 Acq On : 17 Aug 2019 03:16
 Operator : HP/JU
 Sample : K4239-19
 Misc :
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :

Manual Integrations
 APPROVED

Quant Time: Aug 19 15:40:50 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	7.42	152	7380	0.40	ng	-0.02
6) Naphthalene-d8	10.17	136	28451	0.40	ng	-0.01
12) Acenaphthene-d10	14.07	164	19828	0.40	ng	-0.01
18) Phenanthrene-d10	16.81	188	37333	0.40	ng	-0.01
26) Chrysene-d12	21.05	240	43949	0.40	ng	-0.01
32) Perylene-d12	23.15	264	64983	0.40	ng	-0.02

System Monitoring Compounds						
3) 2-Fluorophenol	5.05	112	5468	0.31	ng	0.00
4) Phenol-d6	6.61	99	7377	0.34	ng	0.00
7) Nitrobenzene-d5	8.55	82	7514	0.33	ng	-0.01
10) 2-Methylnaphthalene-d10	11.78	152	12092	0.23	ng	-0.01
13) 2,4,6-Tribromophenol	15.57	330	2297	0.22	ng	0.00
14) 2-Fluorobiphenyl	12.71	172	784	0.03	ng	0.00
24) Fluoranthene-d10	18.87	212	27964m	0.21	ng	0.00
28) Terphenyl-d14	19.48	244	28348	0.24	ng	-0.02

Target Compounds				Qvalue		
8) Naphthalene	10.22	128	108063	1.355	ng	99
11) 2-Methylnaphthalene	11.85	142	124779	2.208	ng	97
15) Acenaphthylene	13.78	152	658887	6.358	ng	98
16) Acenaphthene	14.13	154	139294	2.098	ng	92
17) Fluorene	15.12	166	285457	2.874	ng	# 87
22) Phenanthrene	16.87	178	6450064	57.650	ng	98
23) Anthracene	16.95	178	1094629	10.708	ng	98
25) Fluoranthene	18.90	202	6799312	47.507	ng	97
27) Pyrene	19.26	202	10135679	65.763	ng	# 92
29) Benzo(a)anthracene	21.02	228	4673873	29.080	ng	92
30) Chrysene	21.08	228	5570551	35.673	ng	96
31) Indeno(1,2,3-cd)pyrene	25.24	276	2449767	14.234	ng	98
33) Benzo(b)fluoranthene	22.54	252	5029300m	22.570	ng	
34) Benzo(k)fluoranthene	22.57	252	1470217m	6.681	ng	
35) Benzo(a)pyrene	23.07	252	4069709	20.145	ng	99
36) Dibenzo(a,h)anthracene	25.25	278	777754	3.859	ng	93
37) Benzo(a,h,i)perylene	25.88	276	2873576	13.860	ng	100

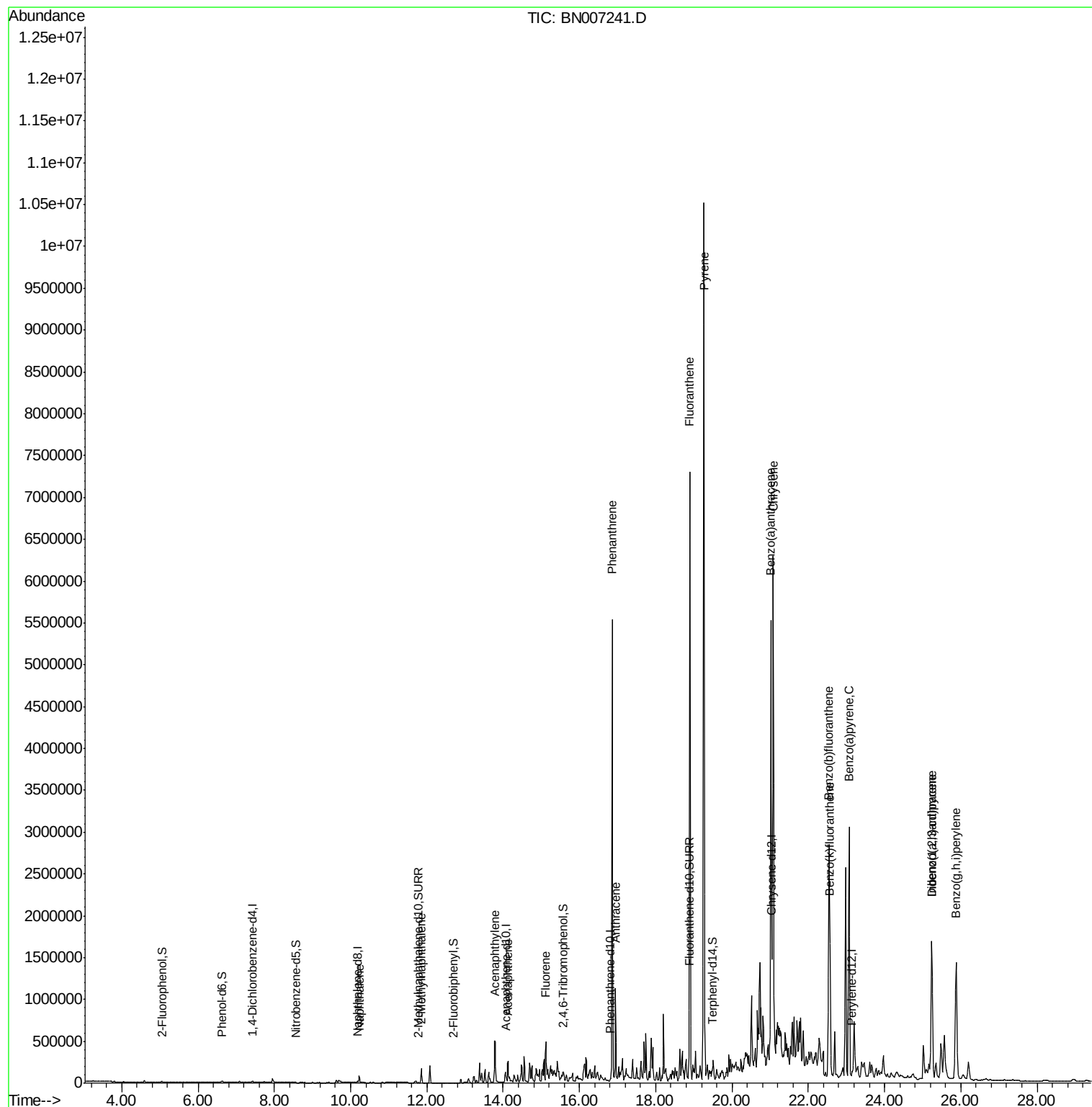
(#) = qualifier out of range (m) = manual integration (+) = signals summed

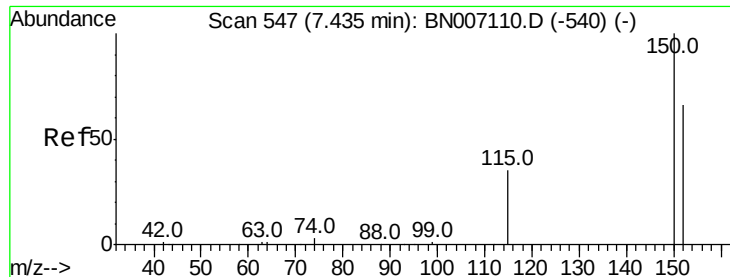
Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN081619\
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Quant Time: Aug 19 15:40:50 2019
Quant Method : Z:\SVOASRV\HPCHEM1\BNA N\METHODS\8270-SIM-BN081019.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Aug 13 12:12:02 2019
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Manual Integrations
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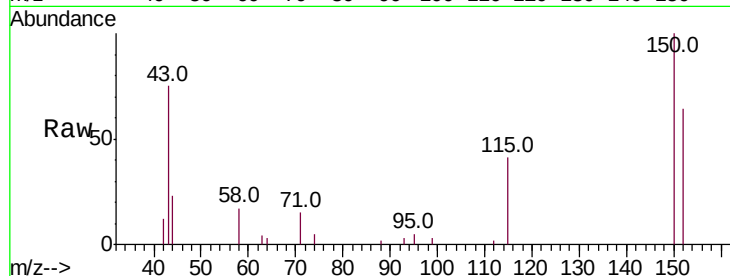
#1

1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.42 min Scan# 545
Delta R.T. -0.02 min
Lab File: BN007241.D
Acq: 17 Aug 2019 03:16

Instrument :
BNA_N
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
152	100		
150	155.9	121.7	182.5
115	63.5	46.2	69.4

Manual Integrations
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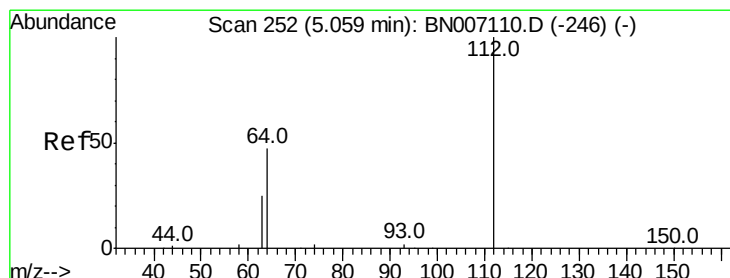
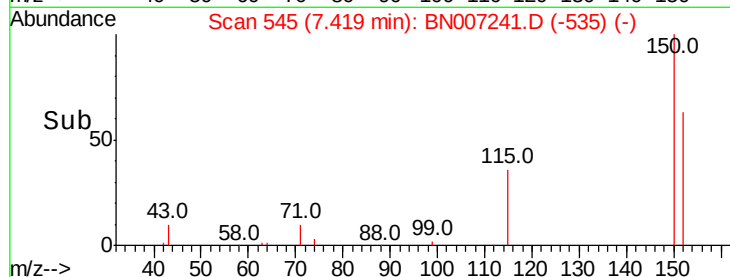
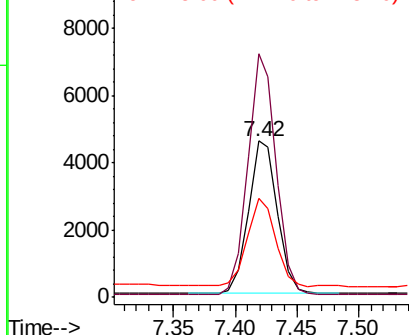


Abundance

Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

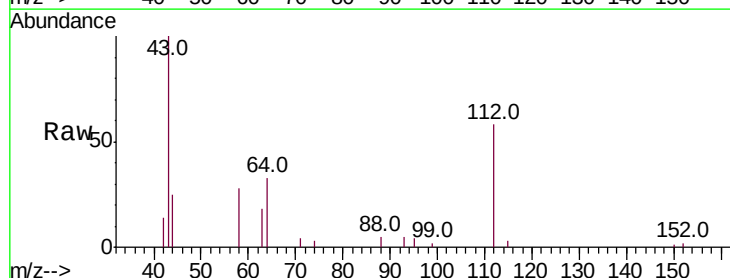
Ion 115.00 (114.70 to 115.70): E



#3

2-Fluorophenol
Concen: 0.308 ng
RT: 5.05 min Scan# 251
Delta R.T. -0.01 min
Lab File: BN007241.D
Acq: 17 Aug 2019 03:16

Tgt Ion	Ratio	Lower	Upper
112	100		
64	51.6	42.6	63.8
63	27.4	22.2	33.2

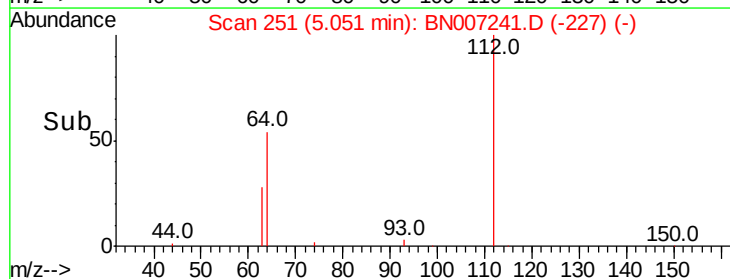
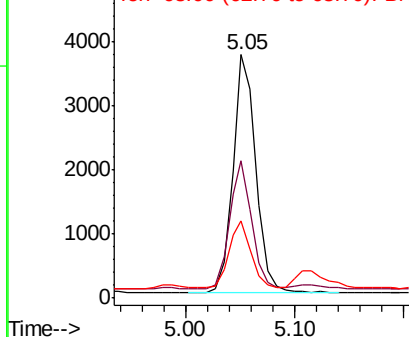


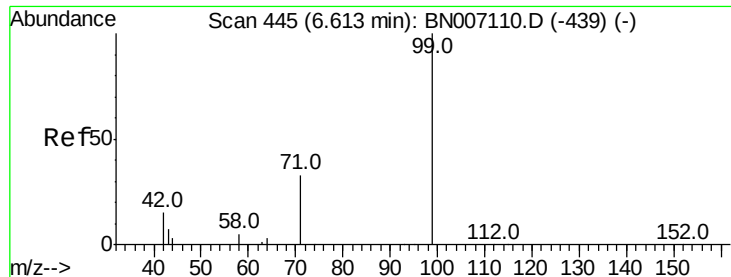
Abundance

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: 0.336 ng

RT: 6.61 min Scan# 445

Delta R.T. -0.00 min

Lab File: BN007241.D

Acq: 17 Aug 2019 03:16

Instrument :

BNA_N

ClientSampleId :

Tot Ion: 99 Resp: 7377

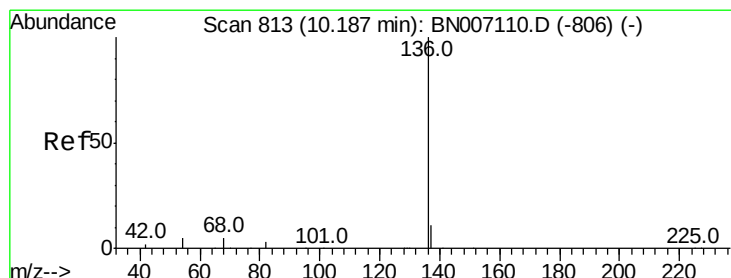
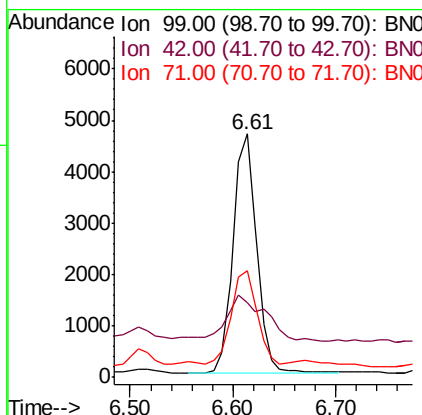
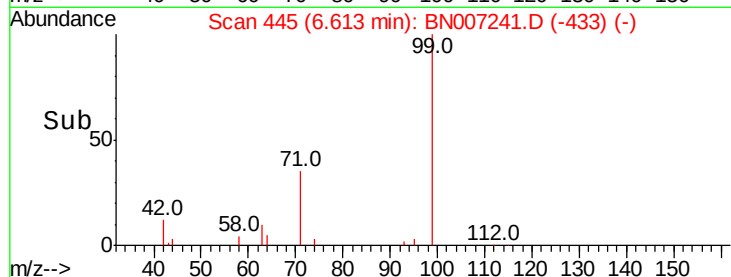
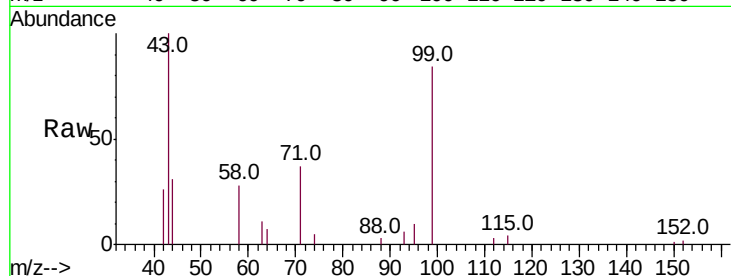
Ion Ratio Lower Upper

99 100

42 32.2 15.8 23.6#

71 43.7 27.0 40.4#

Manual Integrations
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#6

Naphthalene-d8

Concen: 0.400 ng

RT: 10.17 min Scan# 812

Delta R.T. -0.01 min

Lab File: BN007241.D

Acq: 17 Aug 2019 03:16

Tgt Ion: 136 Resp: 28451

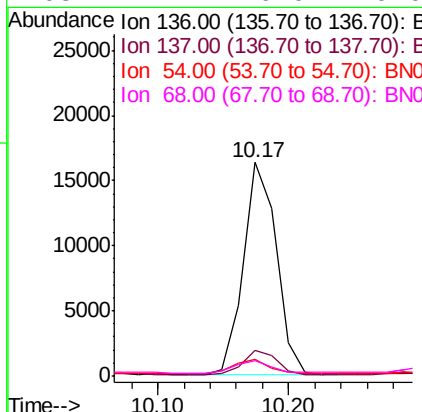
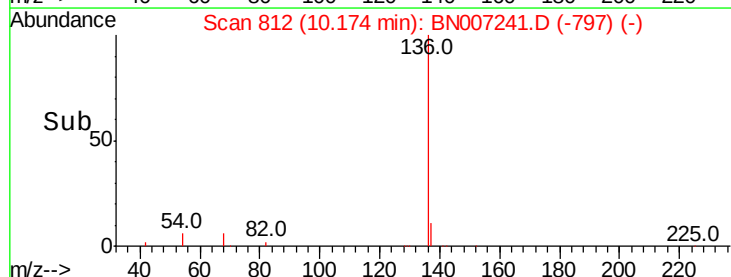
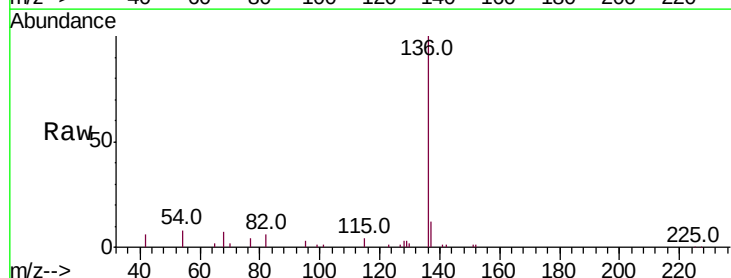
Ion Ratio Lower Upper

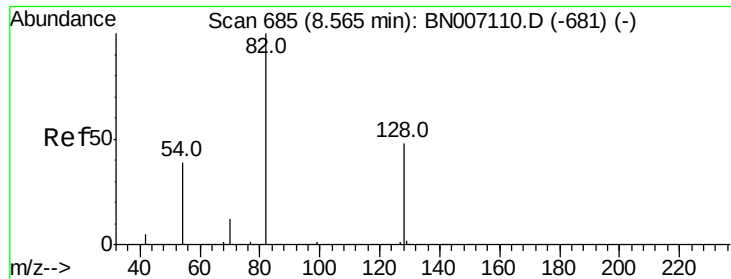
136 100

137 11.8 9.4 14.0

54 7.8 6.6 9.8

68 7.2 6.0 9.0





#7

Nitrobenzene-d5

Concen: 0.328 ng

RT: 8.55 min Scan# 684

Delta R.T. -0.01 min

Lab File: BN007241.D

Acq: 17 Aug 2019 03:16

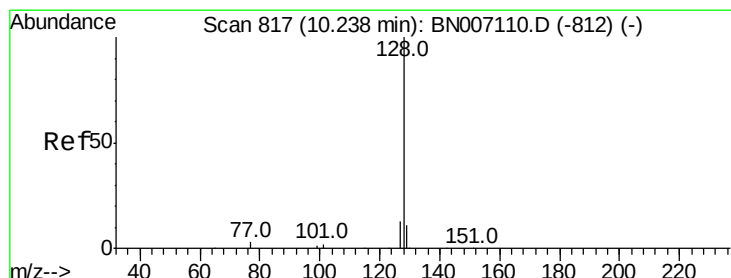
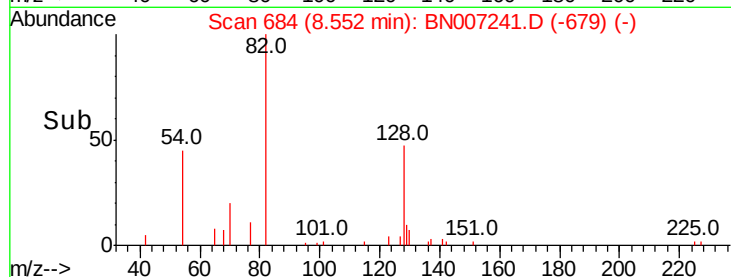
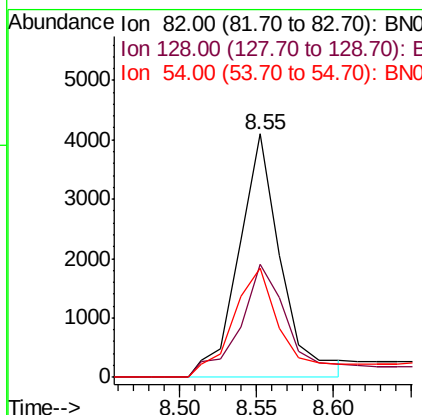
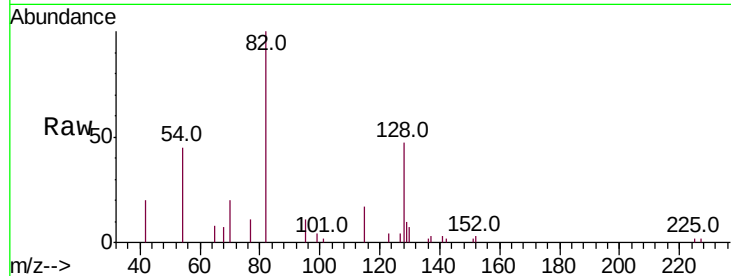
Instrument :

BNA_N

ClientSampled :

Tot Ion:	82	Resp:	7514
Ion	Ratio	Lower	Upper
82	100		
128	46.7	34.6	51.8
54	44.8	36.2	54.4

Manual Integrations
APPROVED



#8

Naphthalene

Concen: 1.355 ng

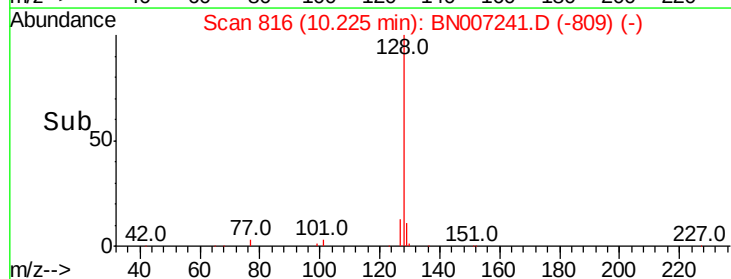
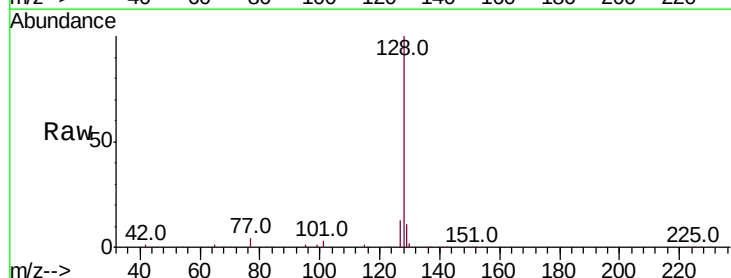
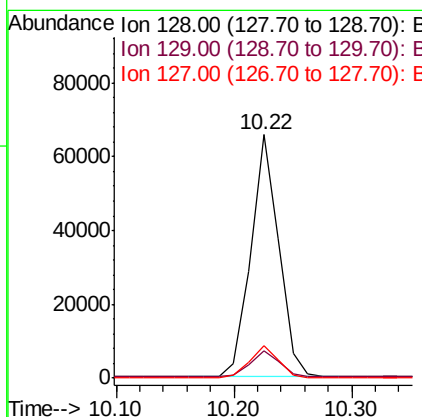
RT: 10.22 min Scan# 816

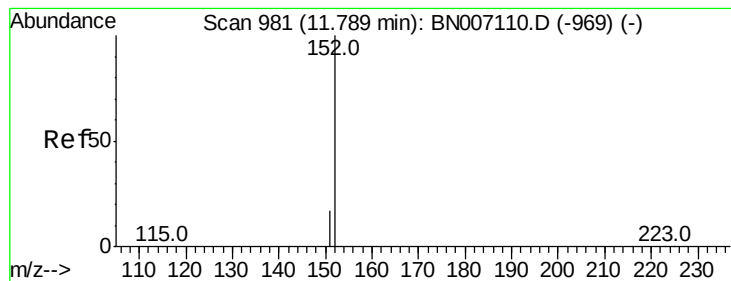
Delta R.T. -0.01 min

Lab File: BN007241.D

Acq: 17 Aug 2019 03:16

Tgt Ion:	128	Resp:	108063
Ion	Ratio	Lower	Upper
128	100		
129	11.4	9.4	14.2
127	13.4	11.0	16.6





#10

2-Methylnaphthalene-d10

Concen: 0.228 ng

RT: 11.78 min Scan# 979

Delta R.T. -0.01 min

Lab File: BN007241.D

Acq: 17 Aug 2019 03:16

Instrument :

BNA_N

ClientSampleId :

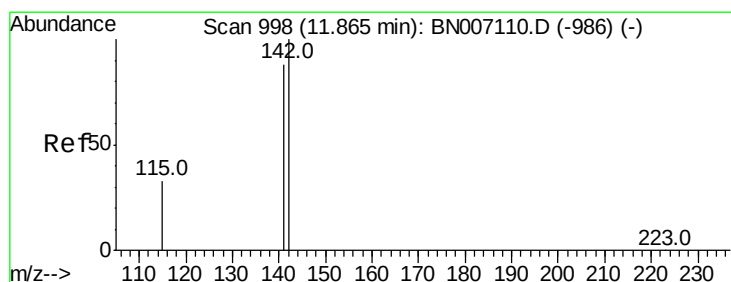
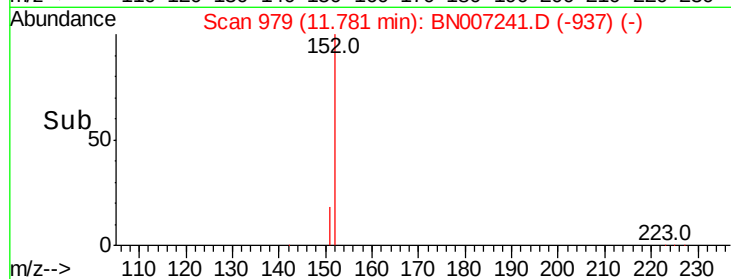
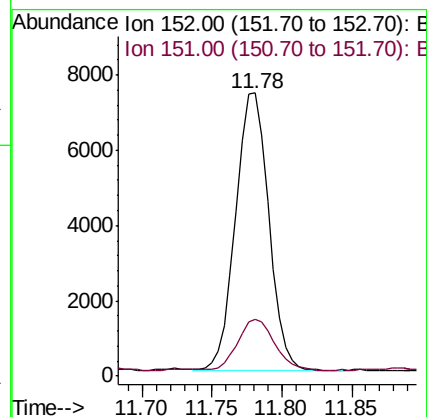
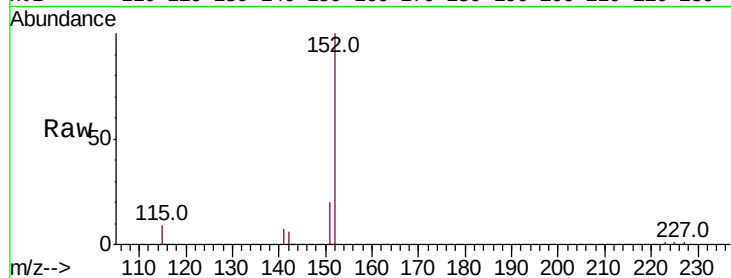
Tot Ion:152 Resp: 12092

Ion Ratio Lower Upper

152 100

151 20.7 15.5 23.3

Manual Integrations
APPROVED



#11

2-Methylnaphthalene

Concen: 2.208 ng

RT: 11.85 min Scan# 995

Delta R.T. -0.02 min

Lab File: BN007241.D

Acq: 17 Aug 2019 03:16

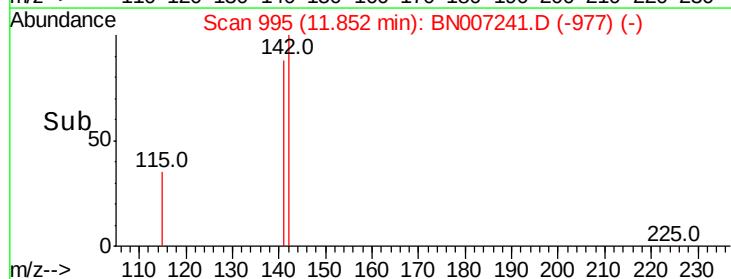
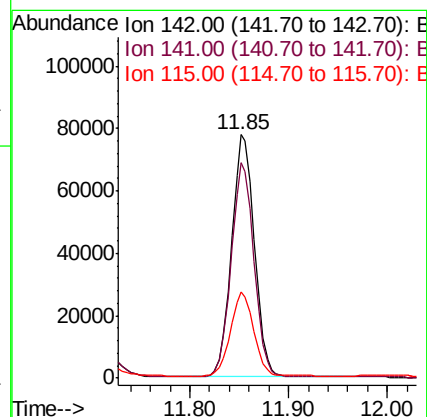
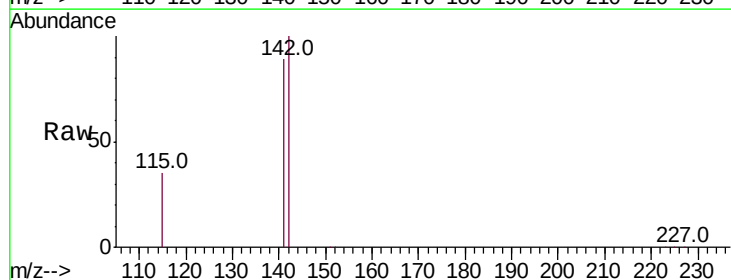
Tgt Ion:142 Resp: 124779

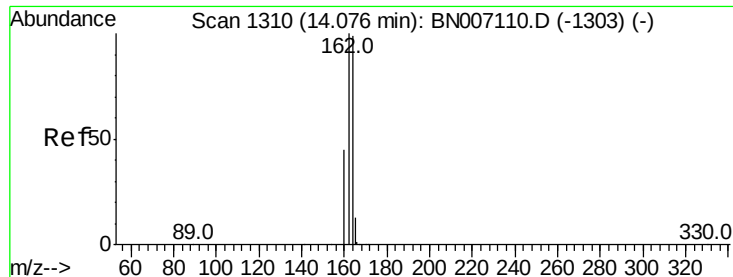
Ion Ratio Lower Upper

142 100

141 88.6 69.0 103.6

115 35.4 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: BN007241.D

Acq: 17 Aug 2019 03:16

Instrument :

BNA_N

ClientSampleId :

Tot Ion:164 Resp: 19828

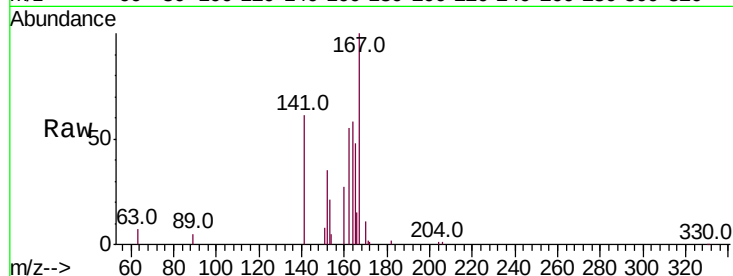
Ion Ratio Lower Upper

164 100

162 95.4 82.2 123.4

160 47.5 38.3 57.5

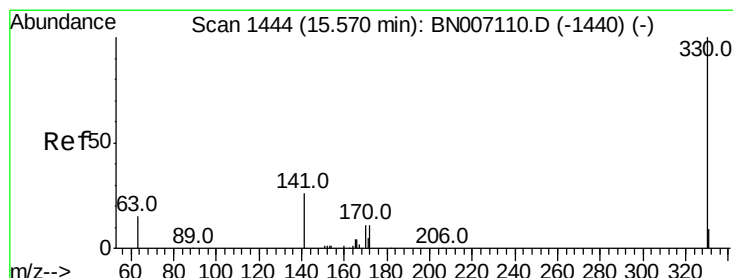
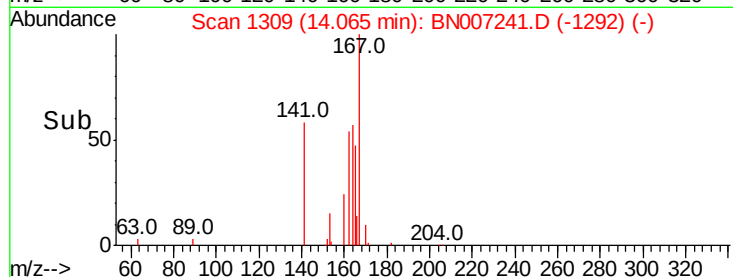
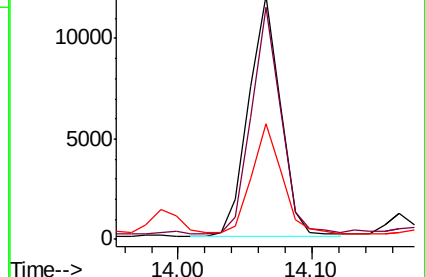
Manual Integrations
APPROVED



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: 0.215 ng

RT: 15.57 min Scan# 1444

Delta R.T. -0.00 min

Lab File: BN007241.D

Acq: 17 Aug 2019 03:16

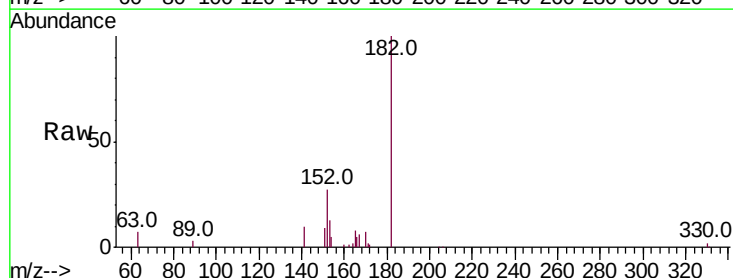
Tgt Ion:330 Resp: 2297

Ion Ratio Lower Upper

330 100

332 0.0 0.0 0.0

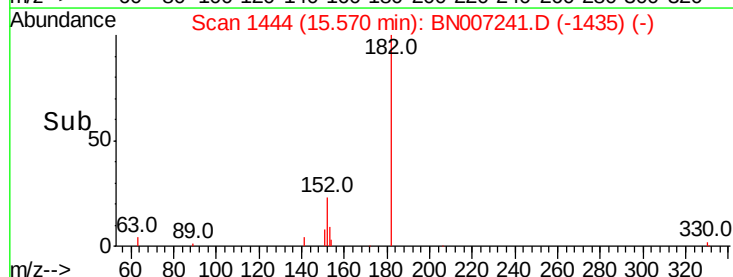
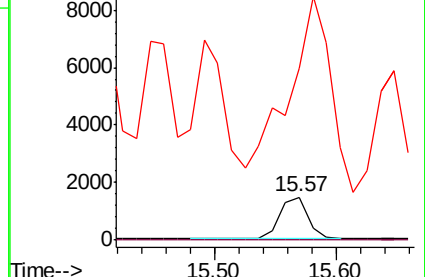
141 731.6 33.6 50.4#

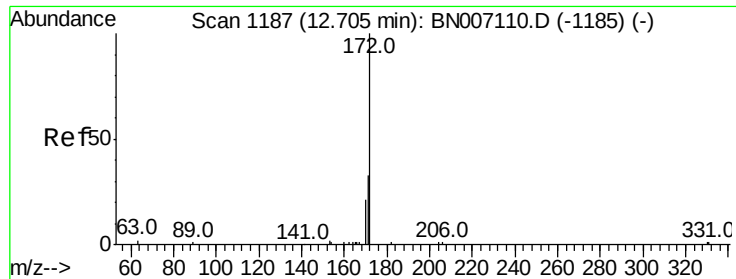


Abundance Ion 330.00 (329.70 to 330.70): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E



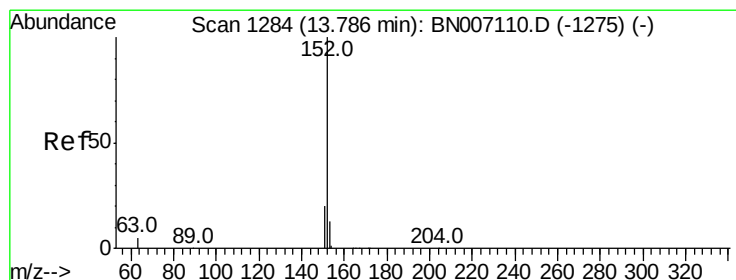
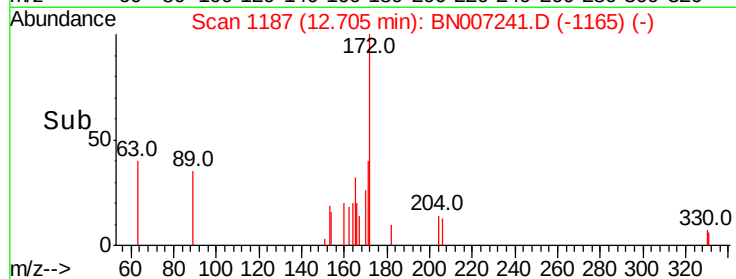
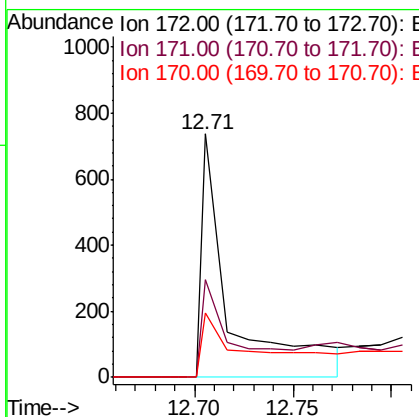
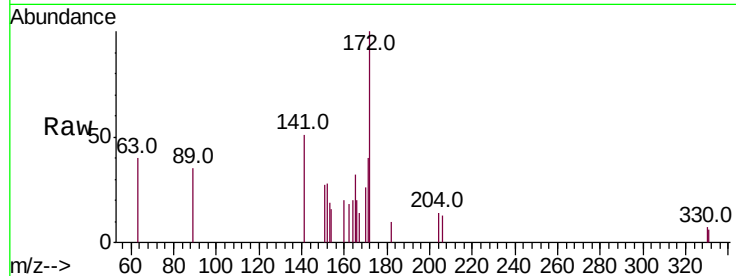


#14
2-Fluorobiphenyl
Concen: 0.027 ng
RT: 12.71 min Scan# 1187
Delta R.T. -0.00 min
Lab File: BN007241.D
Acq: 17 Aug 2019 03:16

Instrument :
BNA_N
ClientSampled :

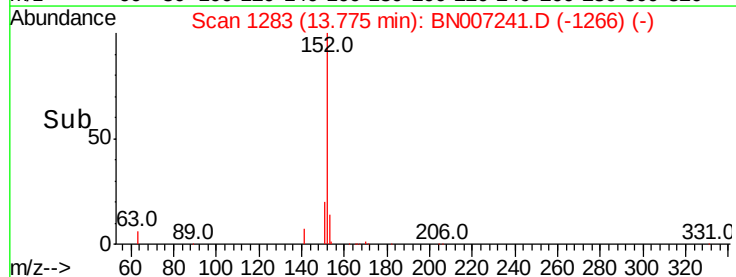
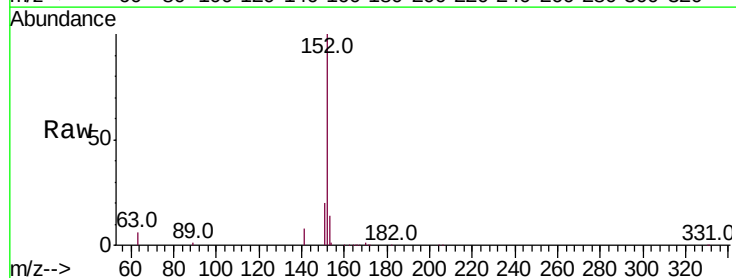
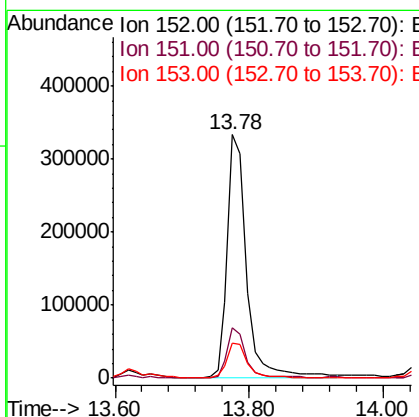
Tot Ion	Ratio	Lower	Upper
172	100		
171	40.2	26.3	39.5#
170	26.3	17.0	25.4#

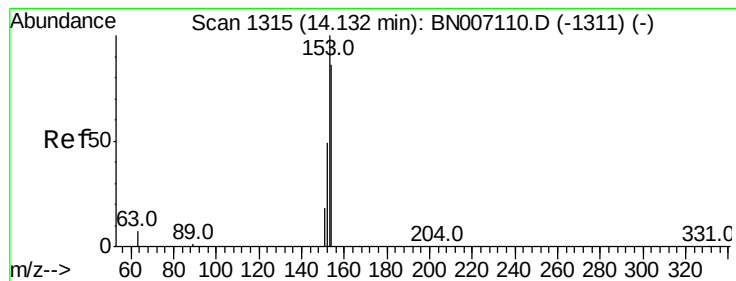
Manual Integrations
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#15
Acenaphthylene
Concen: 6.358 ng
RT: 13.78 min Scan# 1283
Delta R.T. -0.01 min
Lab File: BN007241.D
Acq: 17 Aug 2019 03:16

Tgt Ion	Ratio	Lower	Upper
152	100		
151	19.8	15.8	23.6
153	14.9	10.4	15.6





#16

Acenaphthene

Concen: 2.098 ng

RT: 14.13 min Scan# 1315

Delta R.T. -0.01 min

Lab File: BN007241.D

Acq: 17 Aug 2019 03:16

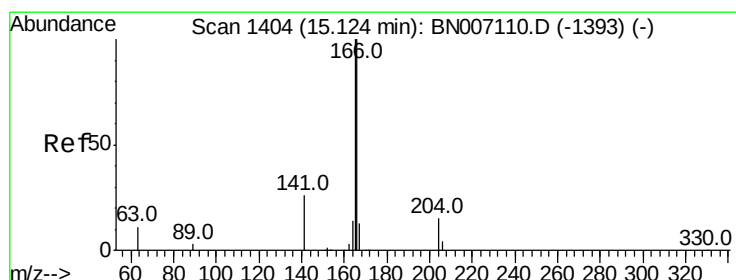
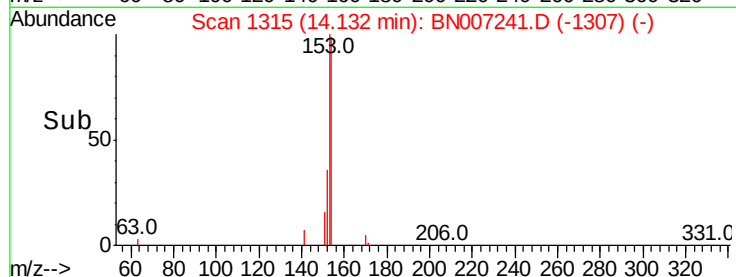
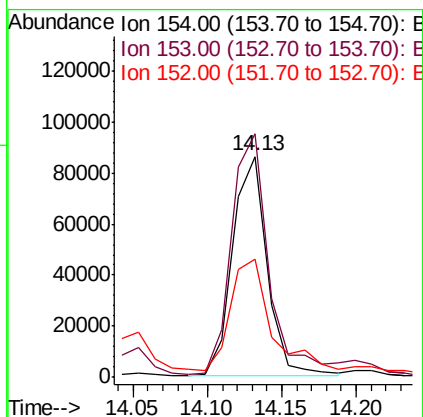
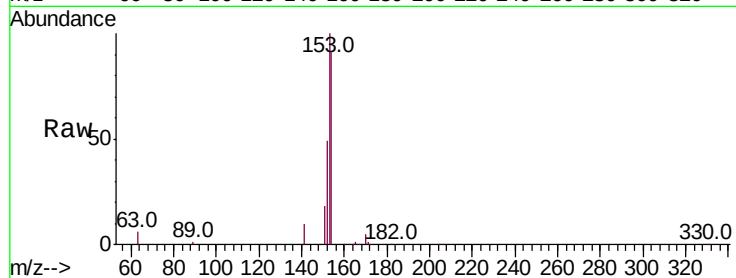
Instrument :

BNA_N

ClientSampleId :

Tot Ion:	154	Resp:	139294
Ion Ratio	Lower	Upper	
154	100		
153	123.9	89.5	134.3
152	57.9	44.8	67.2

Manual Integrations
APPROVED



#17

Fluorene

Concen: 2.874 ng

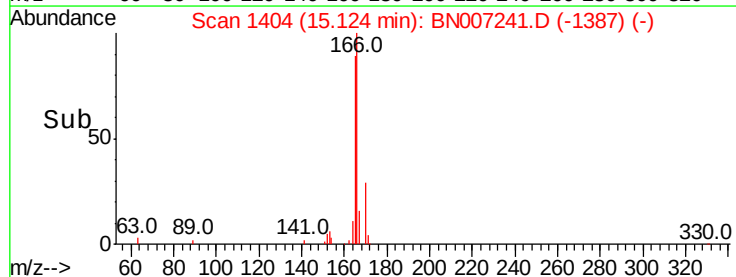
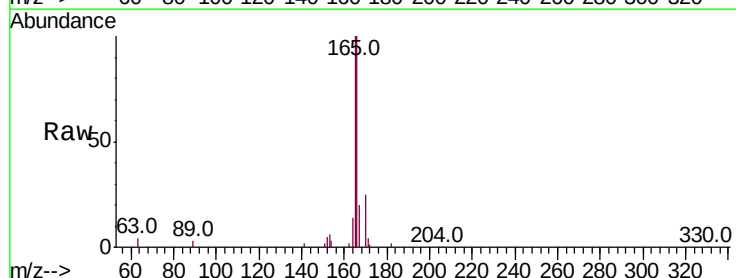
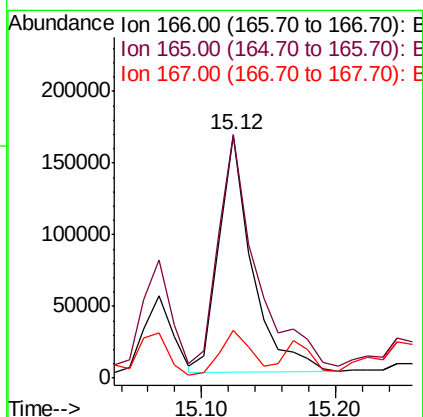
RT: 15.12 min Scan# 1404

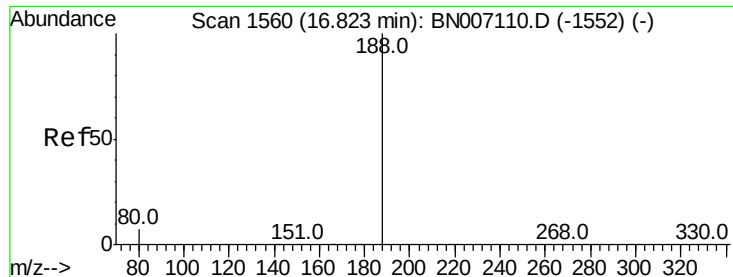
Delta R.T. -0.01 min

Lab File: BN007241.D

Acq: 17 Aug 2019 03:16

Tgt Ion:	166	Resp:	285457
Ion Ratio	Lower	Upper	
166	100		
165	110.9	77.9	116.9
167	17.6	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: BN007241.D

Acq: 17 Aug 2019 03:16

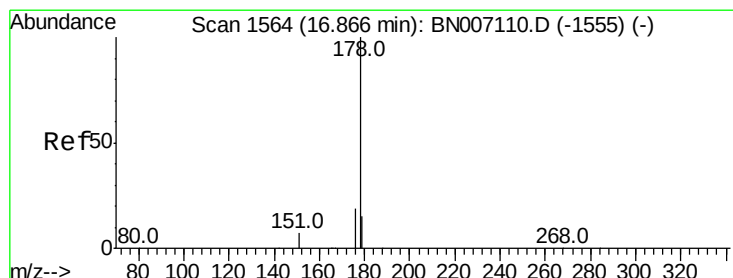
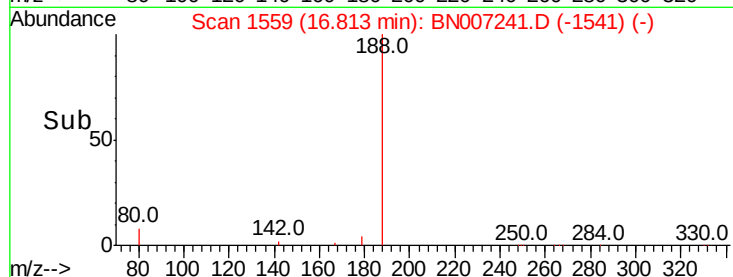
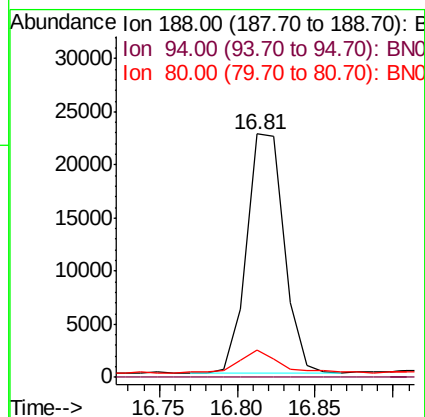
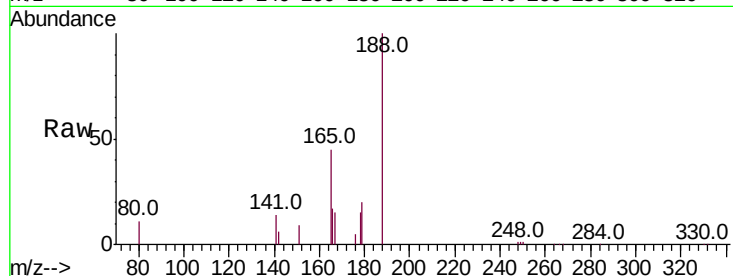
Instrument :

BNA_N

ClientSampleId :

Tot Ion:	188	Resp:	37333
Ion Ratio	Lower	Upper	
188	100		
94	0.0	0.0	0.0
80	11.4	7.8	11.6

Manual Integrations
APPROVED



#22

Phenanthrene

Concen: 57.650 ng

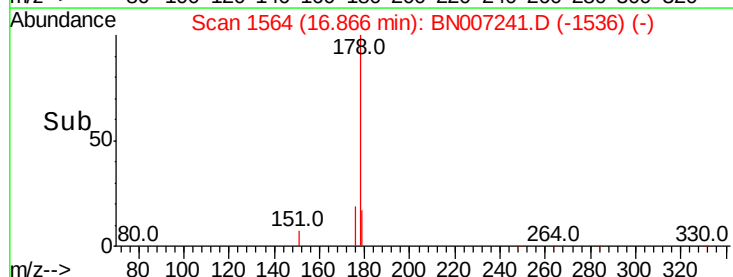
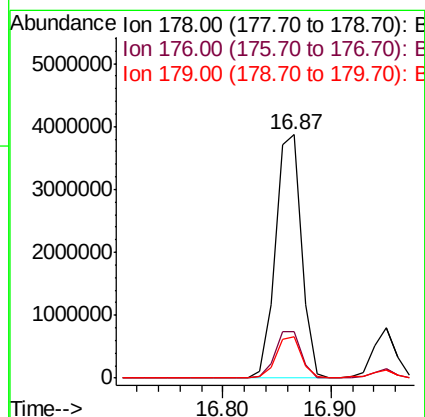
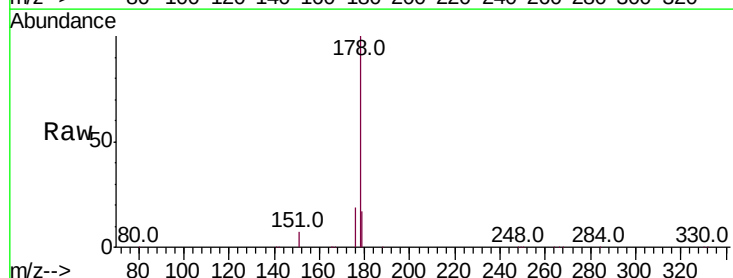
RT: 16.87 min Scan# 1564

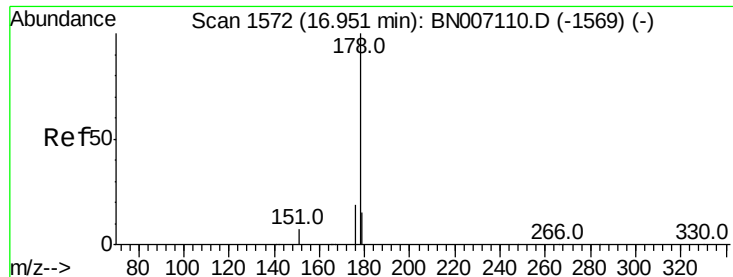
Delta R.T. -0.00 min

Lab File: BN007241.D

Acq: 17 Aug 2019 03:16

Tgt Ion:	178	Resp:	6450064
Ion Ratio	Lower	Upper	
178	100		
176	19.3	15.2	22.8
179	16.6	12.3	18.5



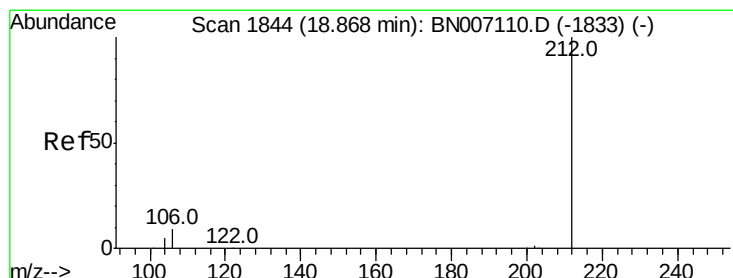
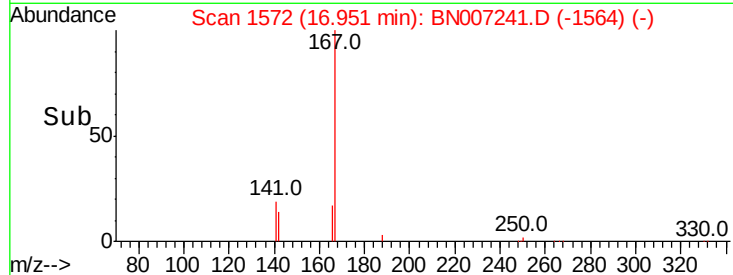
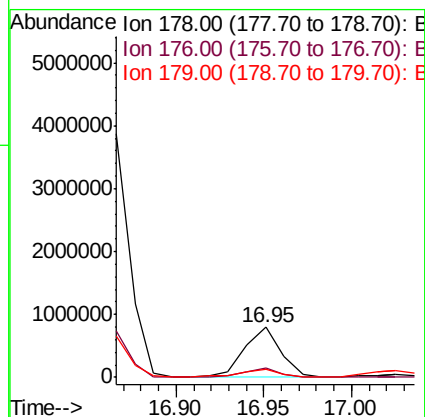
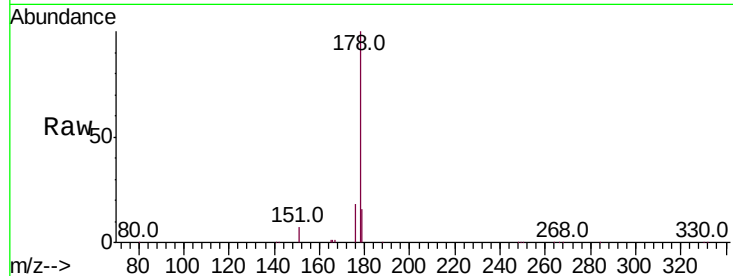


#23
 Anthracene
 Concen: 10.708 ng
 RT: 16.95 min Scan# 1572
 Delta R.T. -0.01 min
 Lab File: BN007241.D
 Acq: 17 Aug 2019 03:16

Instrument :
 BNA_N
 ClientSampled :

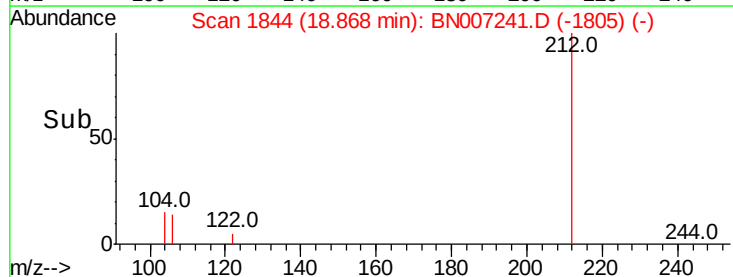
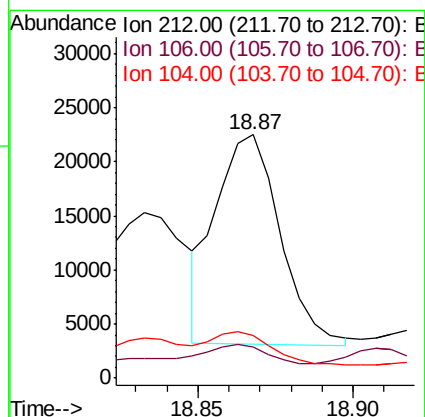
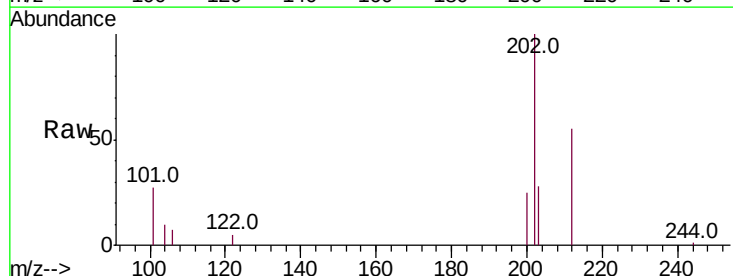
Tot Ion	Ratio	Lower	Upper
178	100		
176	18.4	14.6	21.8
179	17.4	12.5	18.7

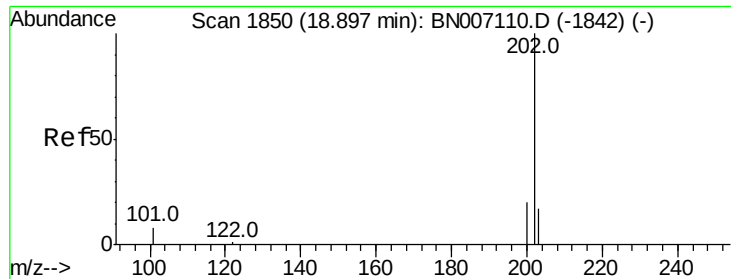
Manual Integrations
 APPROVED



#24
 Fluoranthene-d10
 Concen: 0.211 ng m
 RT: 18.87 min Scan# 1844
 Delta R.T. -0.01 min
 Lab File: BN007241.D
 Acq: 17 Aug 2019 03:16

Tgt Ion	Ratio	Lower	Upper
212	100		
106	7.4	8.2	12.2#
104	5.2	4.5	6.7





#25

Fluoranthene

Concen: 47.507 ng

RT: 18.90 min Scan# 1850

Delta R.T. -0.01 min

Lab File: BN007241.D

Acq: 17 Aug 2019 03:16

Instrument :

BNA_N

ClientSampleId :

Tot Ion:202 Resp: 6799312

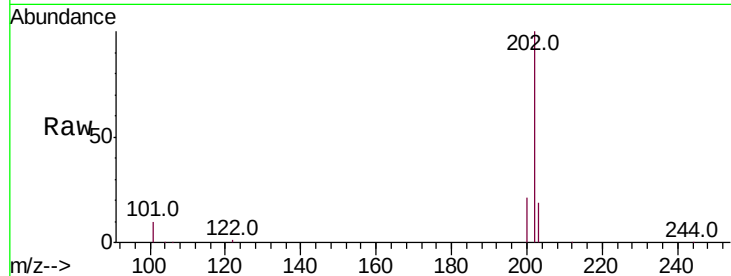
Ion Ratio Lower Upper

202 100

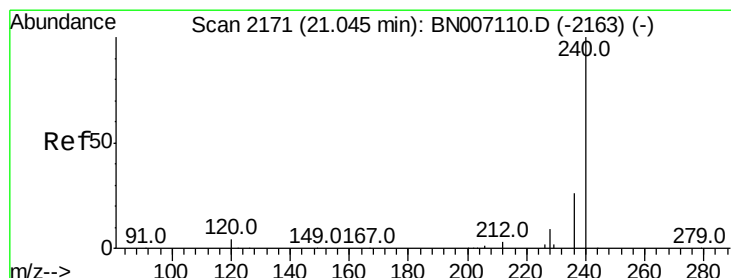
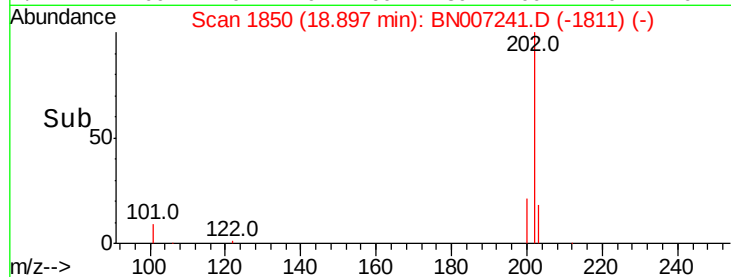
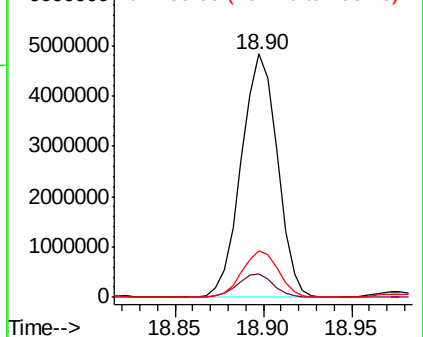
101 9.4 7.0 10.4

203 19.1 13.8 20.8

Manual Integrations
APPROVED



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: 21.05 min Scan# 2171

Delta R.T. -0.01 min

Lab File: BN007241.D

Acq: 17 Aug 2019 03:16

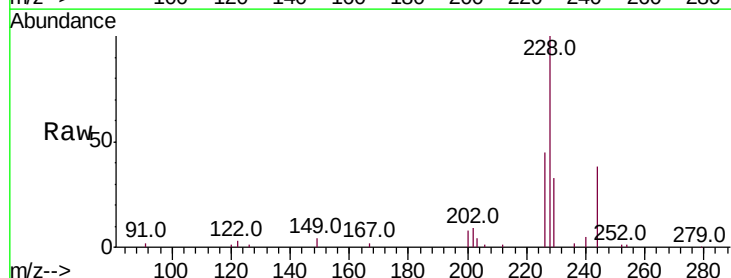
Tgt Ion:240 Resp: 43949

Ion Ratio Lower Upper

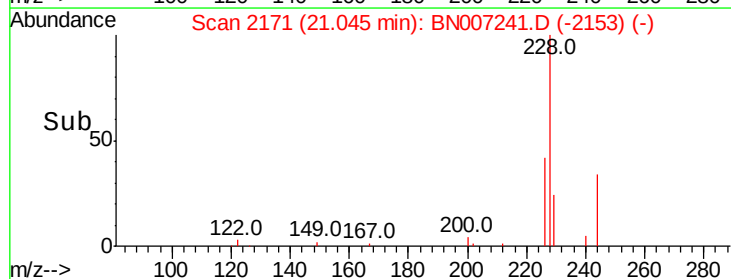
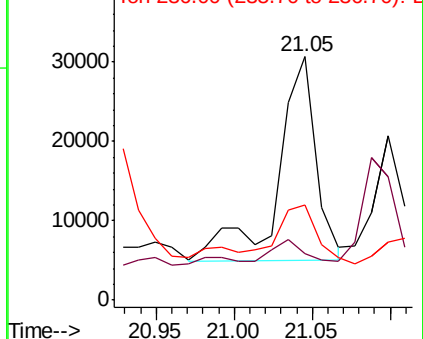
240 100

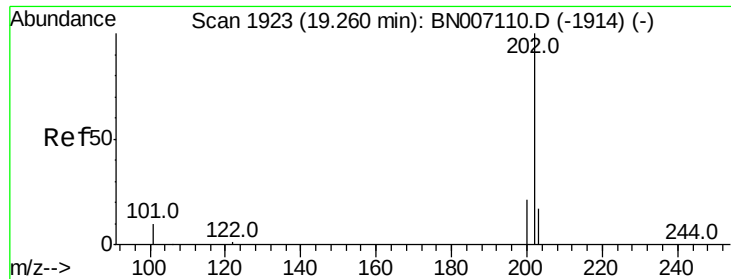
120 19.0 4.0 6.0#

236 39.0 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



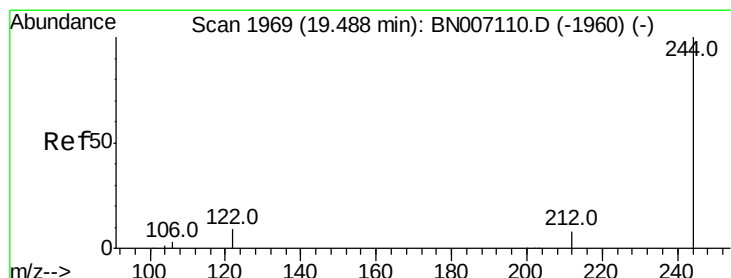
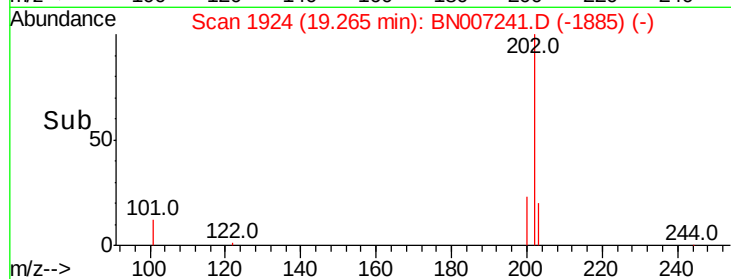
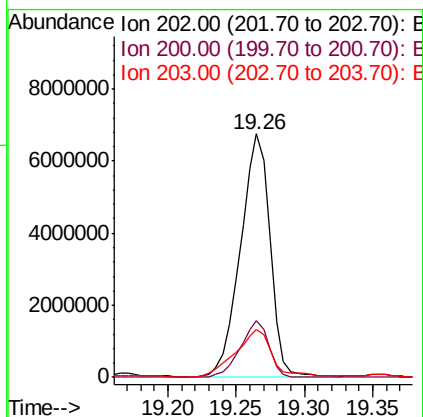
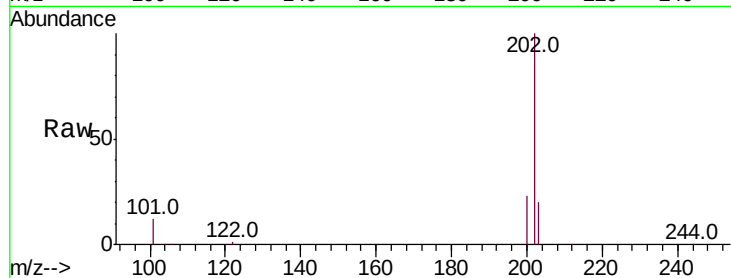


#27
 Pvrene
 Concen: 65.763 ng
 RT: 19.26 min Scan# 1924
 Delta R.T. -0.01 min
 Lab File: BN007241.D
 Acq: 17 Aug 2019 03:16

Instrument :
 BNA_N
 ClientSampleId :

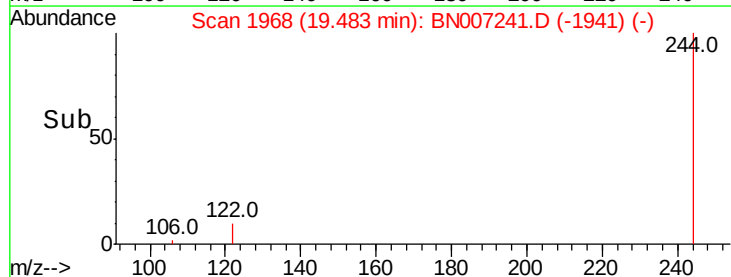
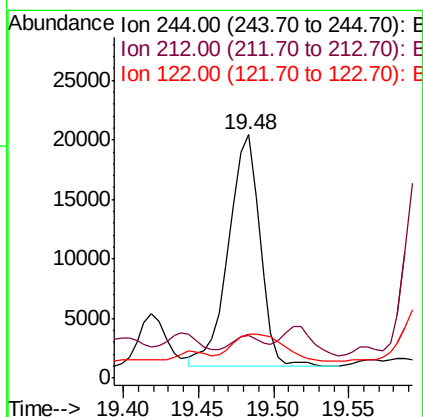
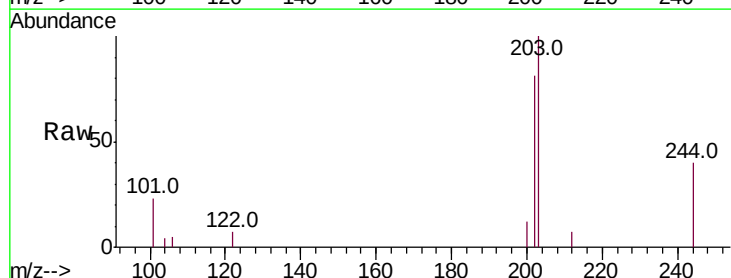
Tot Ion:202 Resp:10135679
 Ion Ratio Lower Upper
 202 100
 200 22.1 16.6 24.8
 203 23.8 14.0 21.0#

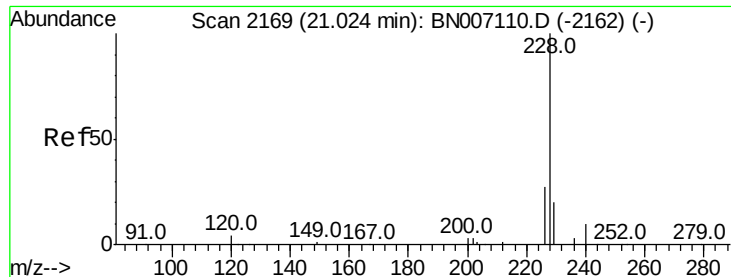
Manual Integrations
 APPROVED



#28
 Terphenyl-d14
 Concen: 0.237 ng
 RT: 19.48 min Scan# 1968
 Delta R.T. -0.02 min
 Lab File: BN007241.D
 Acq: 17 Aug 2019 03:16

Tgt Ion:244 Resp: 28348
 Ion Ratio Lower Upper
 244 100
 212 17.5 6.2 9.2#
 122 18.2 7.4 11.2#



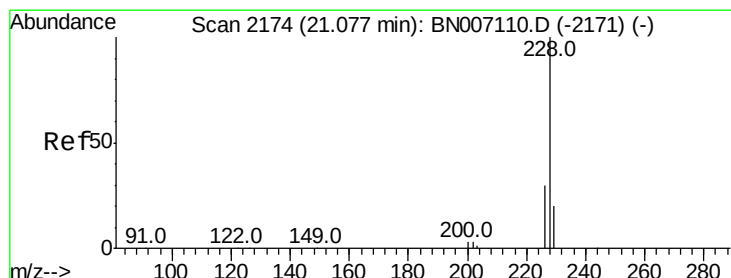
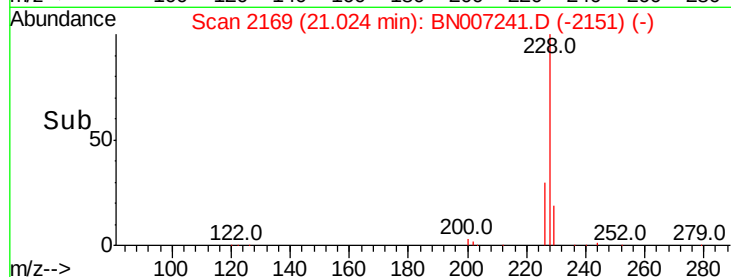
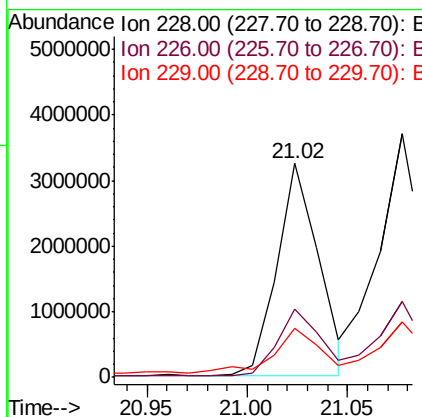
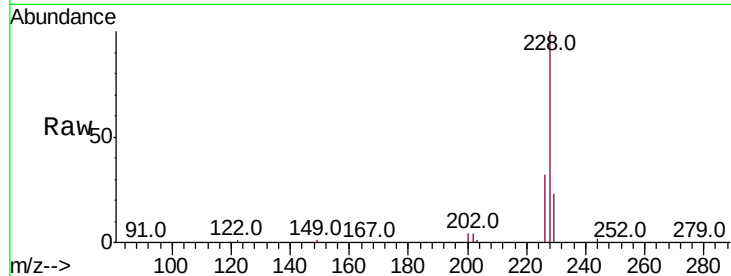


#29
Benzo(a)anthracene
Concen: 29.080 ng
RT: 21.02 min Scan# 2169
Delta R.T. -0.01 min
Lab File: BN007241.D
Acq: 17 Aug 2019 03:16

Instrument :
BNA_N
ClientSampled :

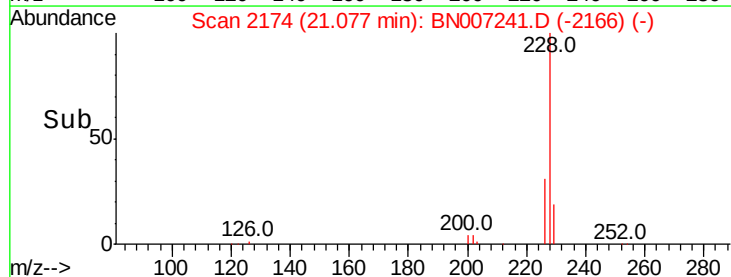
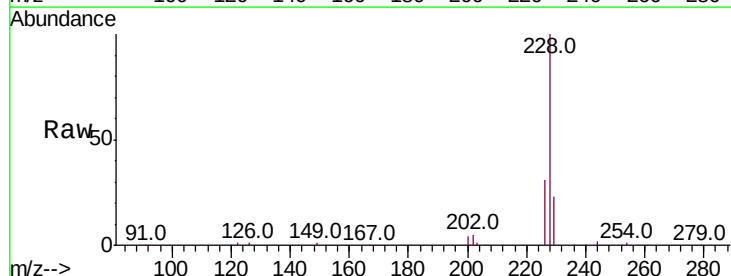
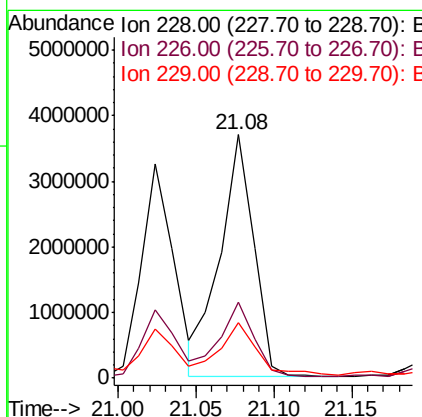
Tot Ion	Ratio	Lower	Upper
228	100		
226	31.6	21.8	32.6
229	22.8	15.6	23.4

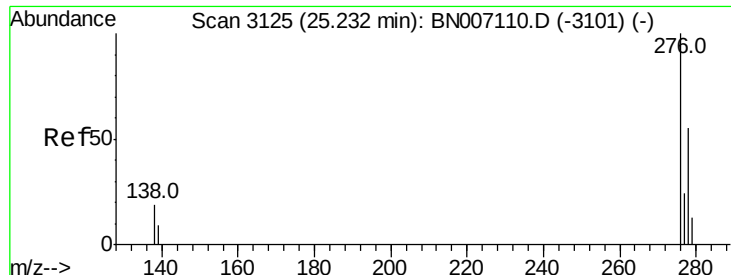
Manual Integrations
APPROVED



#30
Chrysene
Concen: 35.673 ng
RT: 21.08 min Scan# 2174
Delta R.T. -0.01 min
Lab File: BN007241.D
Acq: 17 Aug 2019 03:16

Tgt Ion	Ratio	Lower	Upper
228	100		
226	30.9	23.8	35.6
229	22.7	15.7	23.5





#31

Indeno(1,2,3-cd)pyrene

Concen: 14.234 ng

RT: 25.24 min Scan# 3128

Delta R.T. -0.01 min

Lab File: BN007241.D

Acq: 17 Aug 2019 03:16

Instrument :

BNA_N

ClientSampleId :

Tot Ion:276 Resp: 2449767

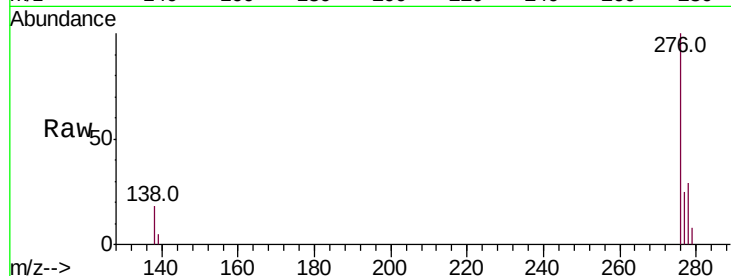
Ion Ratio Lower Upper

276 100

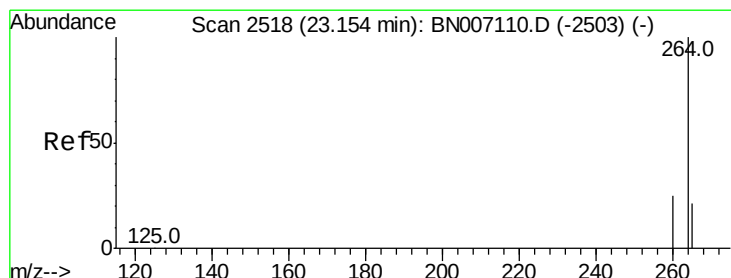
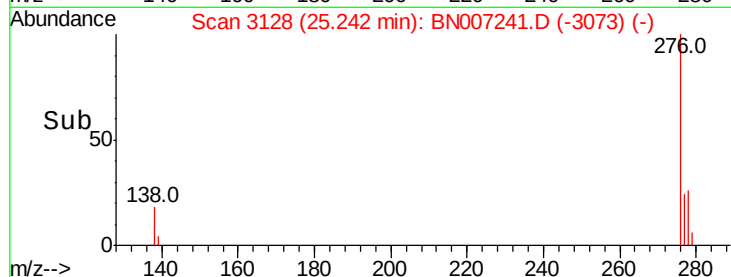
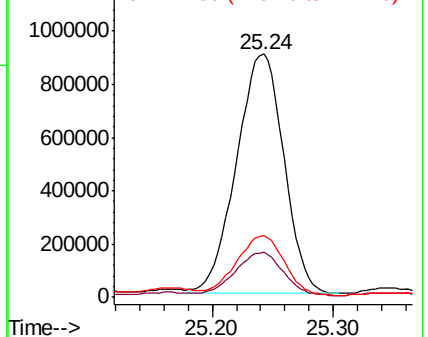
138 18.2 16.0 24.0

277 25.1 19.9 29.9

Manual Integrations
APPROVED



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: BN007241.D

Acq: 17 Aug 2019 03:16

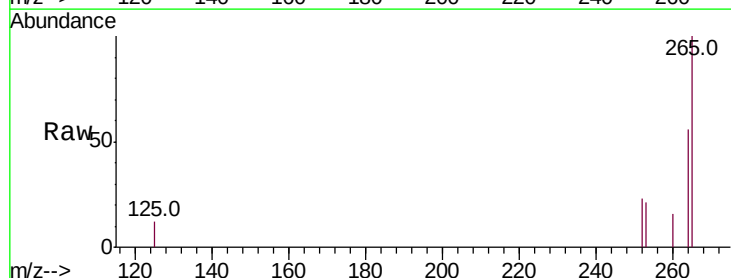
Tgt Ion:264 Resp: 64983

Ion Ratio Lower Upper

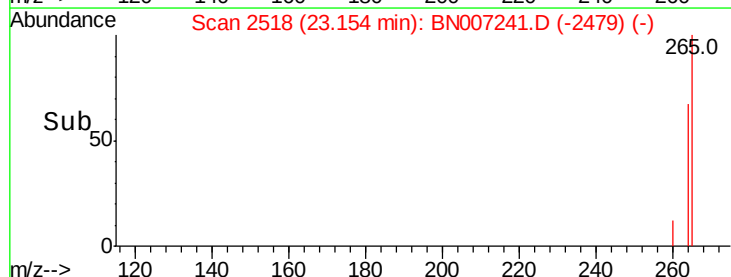
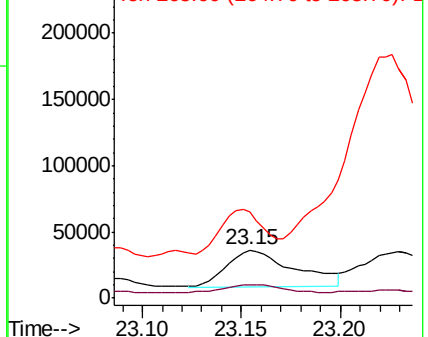
264 100

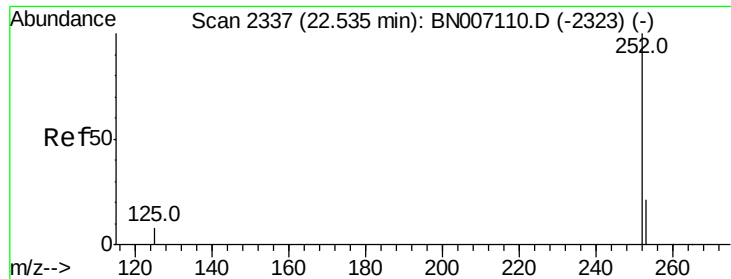
260 28.3 19.8 29.8

265 179.5 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: 22.570 ng m

RT: 22.54 min Scan# 2339

Delta R.T. -0.01 min

Lab File: BN007241.D

Acq: 17 Aug 2019 03:16

Instrument :

BNA_N

ClientSampled :

Tot Ion:252 Resp: 5029300

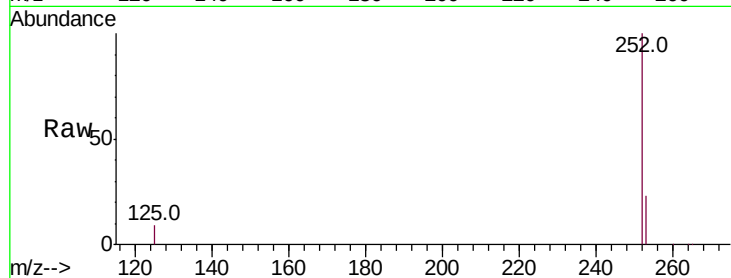
Ion Ratio Lower Upper

252 100

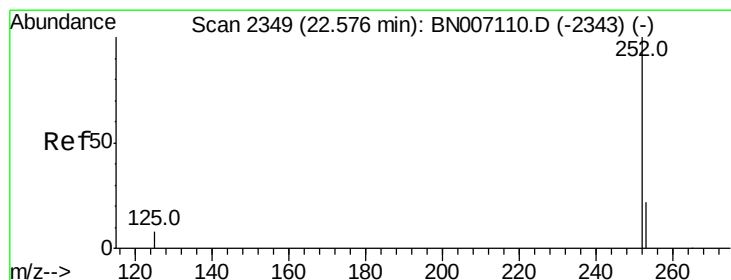
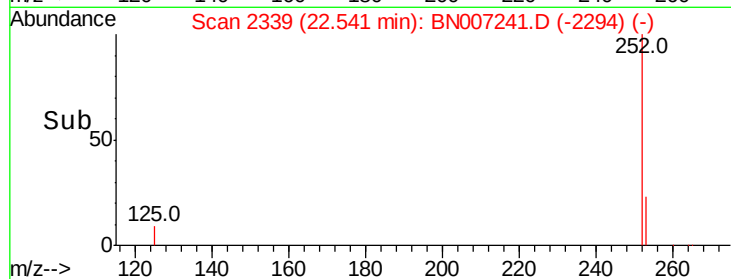
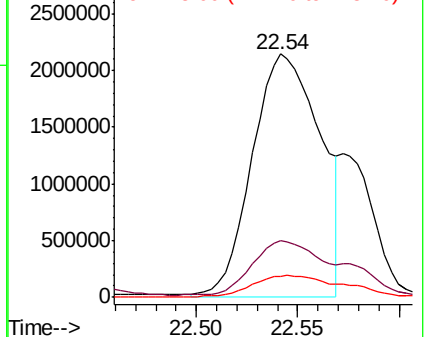
253 23.1 18.2 27.2

125 8.8 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: 6.681 ng m

RT: 22.57 min Scan# 2348

Delta R.T. -0.02 min

Lab File: BN007241.D

Acq: 17 Aug 2019 03:16

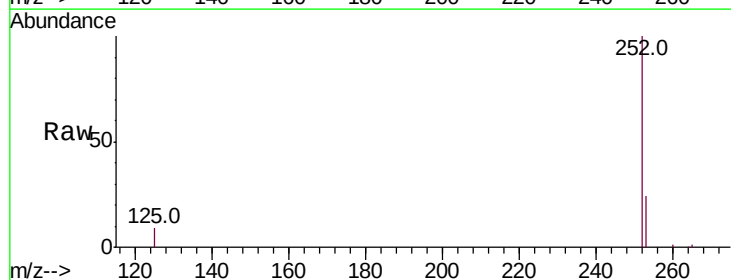
Tgt Ion:252 Resp: 1470217

Ion Ratio Lower Upper

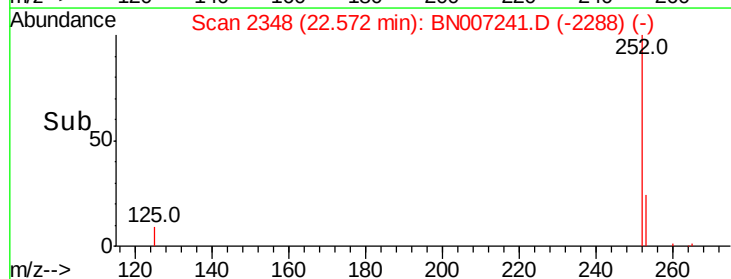
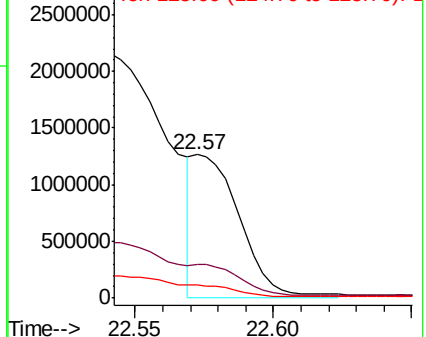
252 100

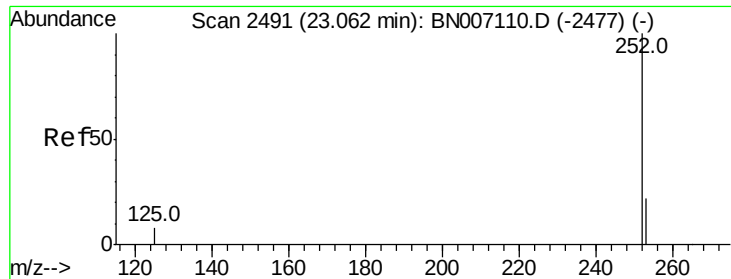
253 23.6 18.1 27.1

125 8.9 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: 20.145 ng

RT: 23.07 min Scan# 2493

Delta R.T. -0.01 min

Lab File: BN007241.D

Acq: 17 Aug 2019 03:16

Instrument :

BNA_N

ClientSampled :

Tot Ion:252 Resp: 4069709

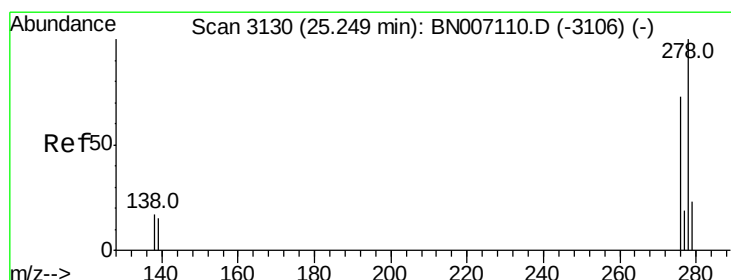
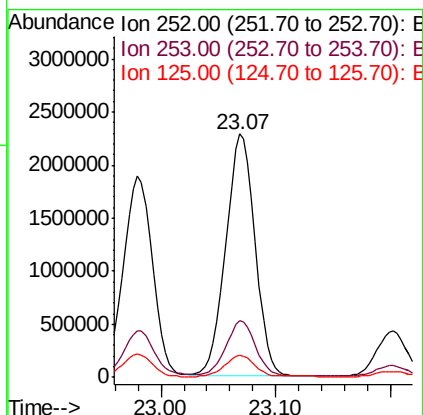
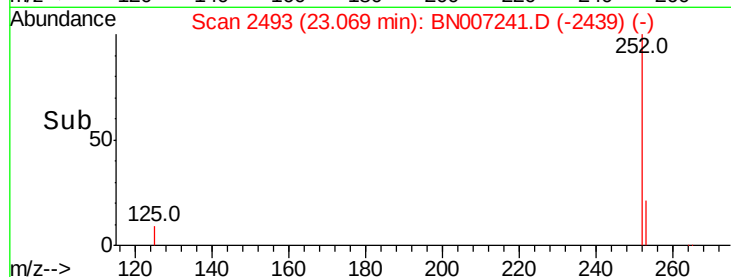
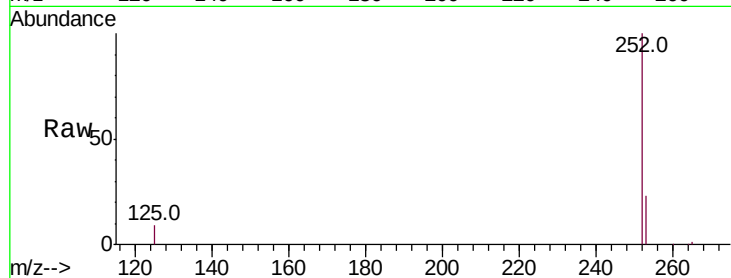
Ion Ratio Lower Upper

252 100

253 23.2 18.5 27.7

125 9.0 8.2 12.4

Manual Integrations
APPROVED



#36

Dibenzo(a,h)anthracene

Concen: 3.859 ng

RT: 25.25 min Scan# 3130

Delta R.T. -0.02 min

Lab File: BN007241.D

Acq: 17 Aug 2019 03:16

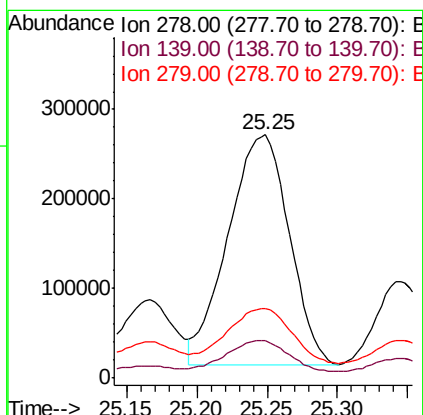
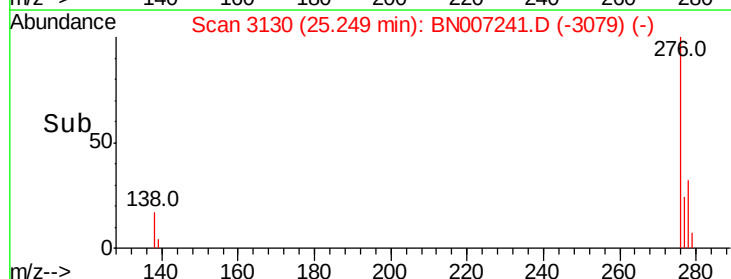
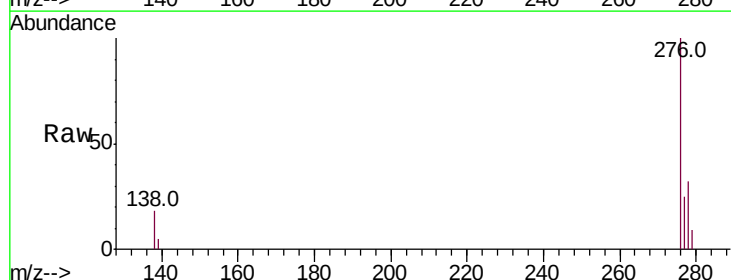
Tgt Ion:278 Resp: 777754

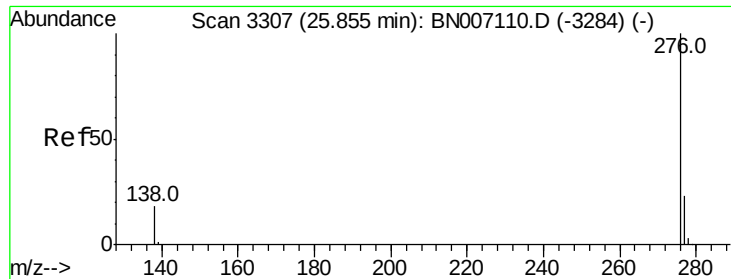
Ion Ratio Lower Upper

278 100

139 15.2 11.3 16.9

279 28.8 19.3 28.9



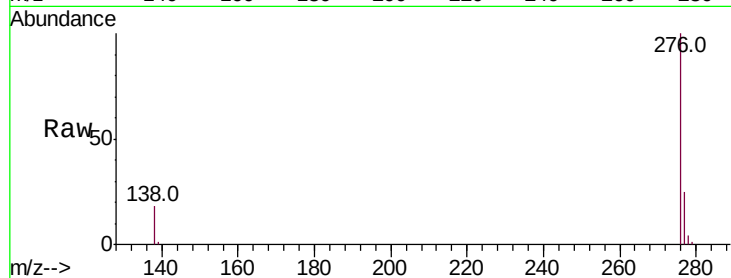


#37
 Benzo(a,h,i)perylene
 Concen: 13.860 ng
 RT: 25.88 min Scan# 3314
 Delta R.T. -0.00 min
 Lab File: BN007241.D
 Acq: 17 Aug 2019 03:16

Instrument :
 BNA_N
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
276	100		
277	24.7	19.8	29.8
138	18.3	14.6	22.0

Manual Integrations
 APPROVED



Abundance

Ion 276.00 (275.70 to 276.70): E

Ion 277.00 (276.70 to 277.70): E

Ion 138.00 (137.70 to 138.70): E

