

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 :
EXT-034-SW091-080519-1

Quant Time: Aug 17 06:28:45 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	R.T.	QIon	Response	Conc	Units	Dev(Min)
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	18.78	212	23674	0.18	ng	-0.09
28) Terphenyl-d14	19.48	244	28348	0.24	ng	-0.02

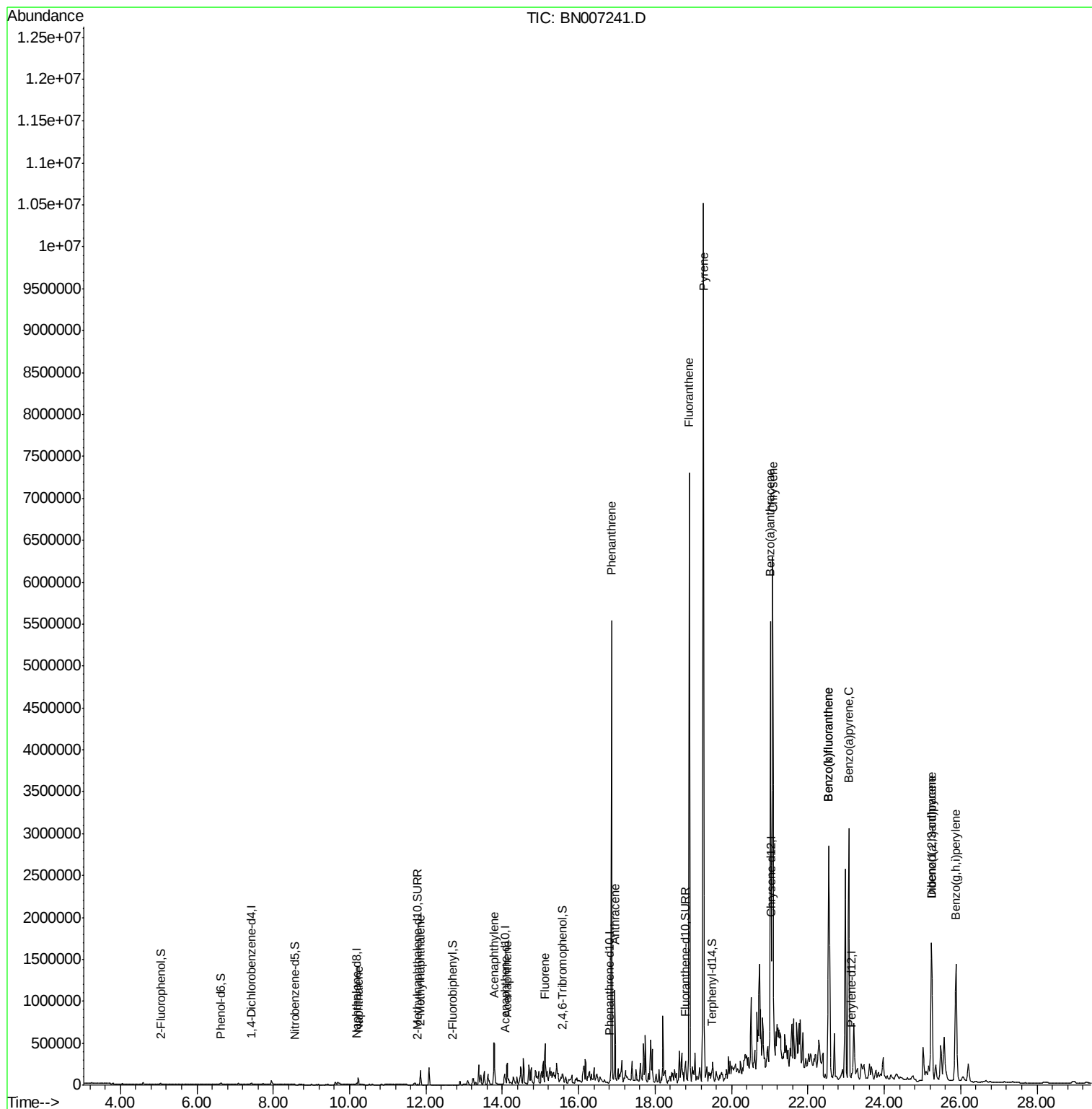
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
8) Naphthalene	10.22	128	108063	1.355	ng	99
11) 2-Methylnaphthalene	11.85	142	124779	2.208	ng	97
15) Acenaphthylene	13.78	152	658887	6.358	ng	98
16) Acenaphthene	14.13	154	139294	2.098	ng	92
17) Fluorene	15.12	166	285457	2.874	ng	# 87
22) Phenanthrene	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	6352385	28.508	ng	99
34) Benzo(k)fluoranthene	22.54	252	6352319	28.865	ng	99
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(g,h,i)perylene	25.88	276	2873576	13.860	ng	100

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

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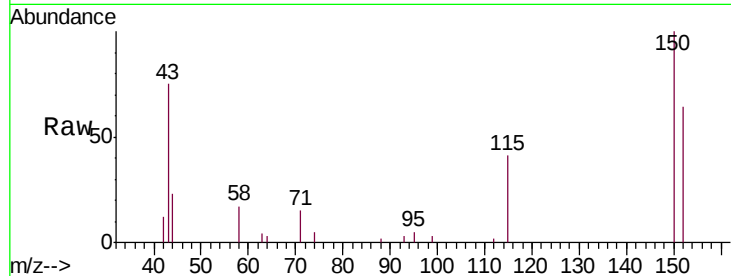


#1

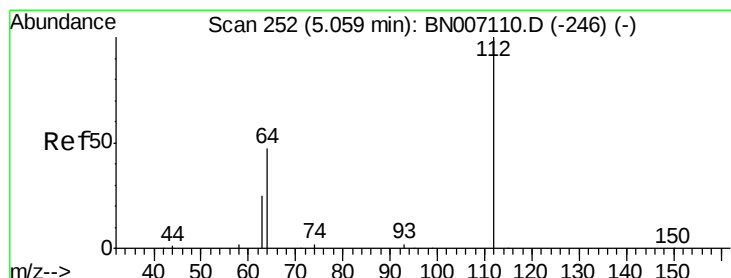
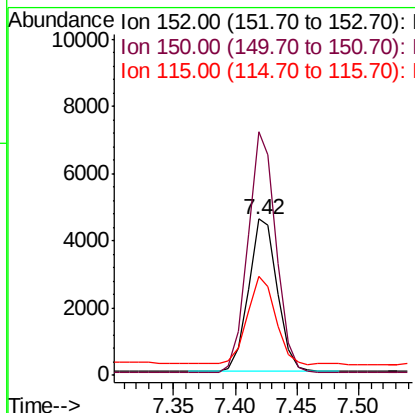
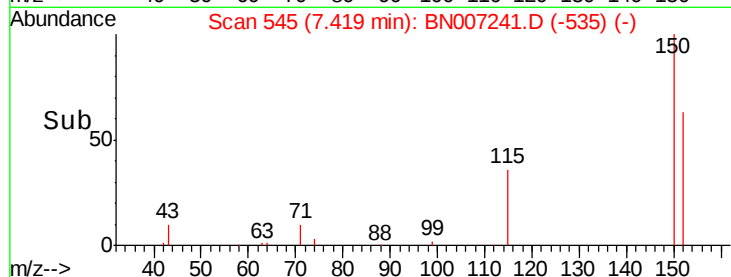
1,4-Dichlorobenzene-d4
 Concen: 0.400 ng
 RT: 7.42 min Scan# 545
 Delta R.T. -0.02 min
 Lab File: BN007241.D
 Acq: 17 Aug 2019 03:16

Instrument :
 BNA_N
 ClientSampleId :
 EXT-034-SW091-080519-1

Tgt Ion:152 Resp: 7380
 Ion Ratio Lower Upper
 152 100
 150 155.9 121.7 182.5
 115 63.5 46.2 69.4



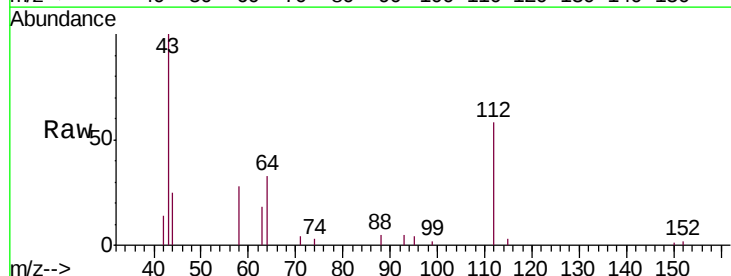
Abundance Ion 152.00 (151.70 to 152.70): E
 Ion 150.00 (149.70 to 150.70): E
 Ion 115.00 (114.70 to 115.70): E



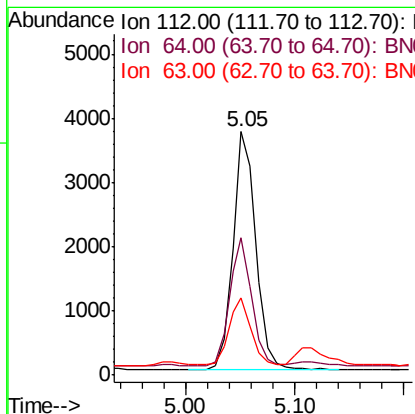
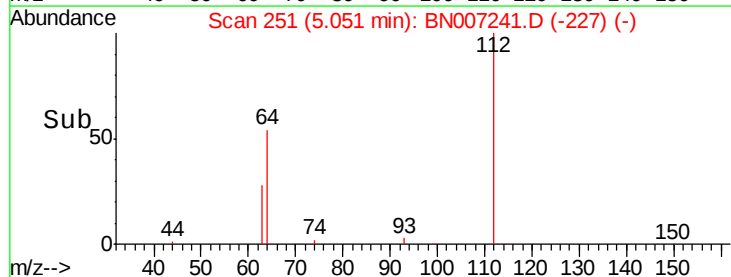
#3

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:112 Resp: 5468
 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 :

EXT-034-SW091-080519-1

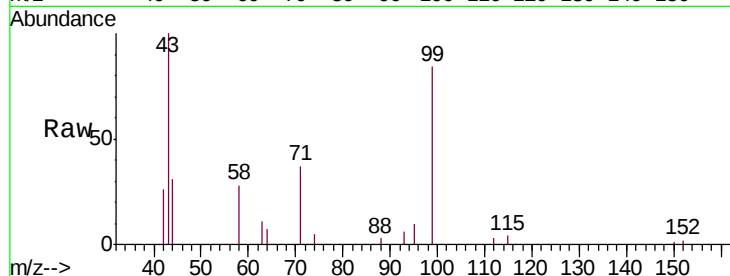
Tgt Ion: 99 Resp: 7377

Ion Ratio Lower Upper

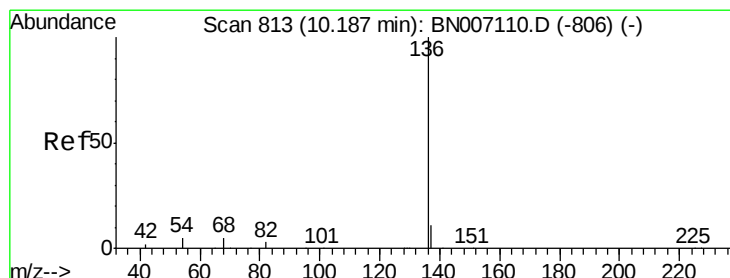
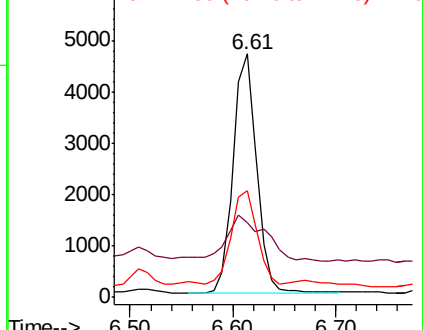
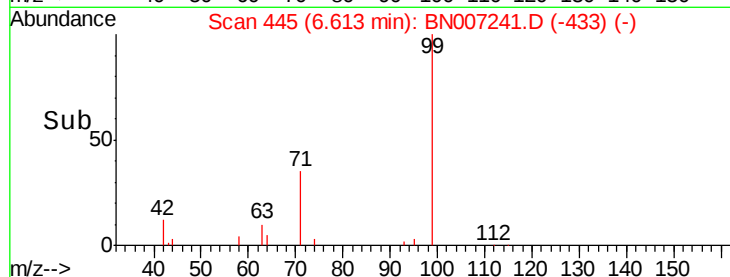
99 100

42 32.2 15.8 23.6#

71 43.7 27.0 40.4#



Abundance Ion 99.00 (98.70 to 99.70): BN007241.D (-433) (-)



#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

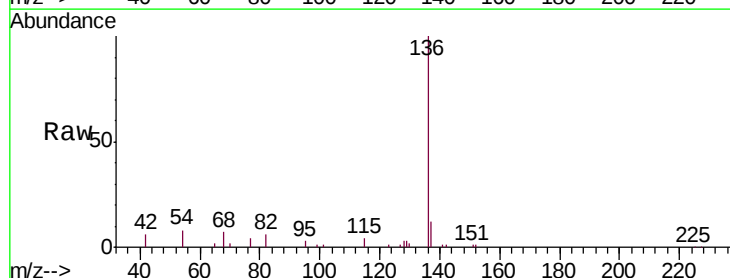
Ion Ratio Lower Upper

136 100

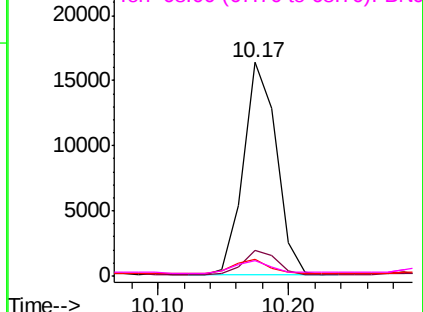
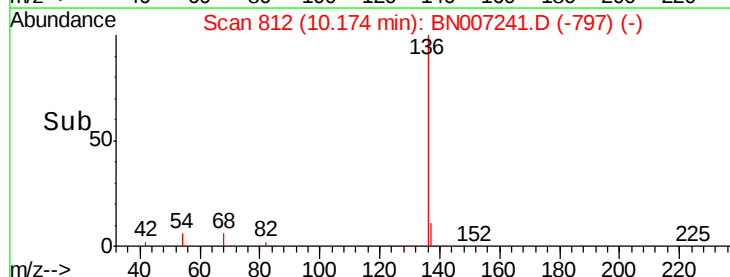
137 11.8 9.4 14.0

54 7.8 6.6 9.8

68 7.2 6.0 9.0



Abundance Ion 136.00 (135.70 to 136.70): BN007241.D (-797) (-)





#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

ClientSampleId :

EXT-034-SW091-080519-1

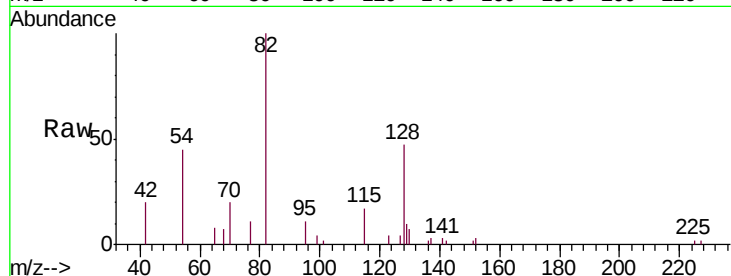
Tgt Ion: 82 Resp: 7514

Ion Ratio Lower Upper

82 100

128 46.7 34.6 51.8

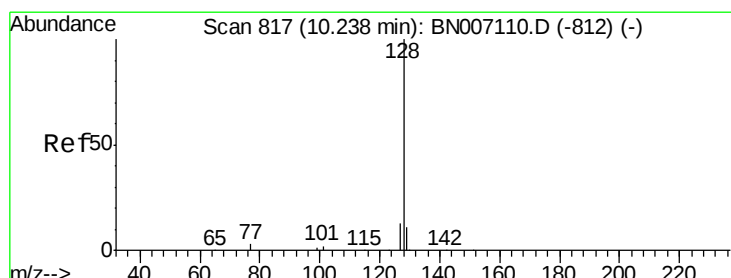
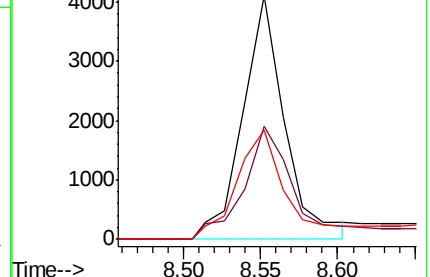
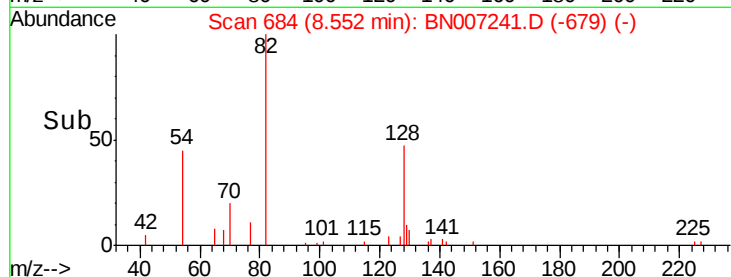
54 44.8 36.2 54.4



Abundance Ion 82.00 (81.70 to 82.70): BN007241.D (-679) (-)

Ion 128.00 (127.70 to 128.70): BN007241.D (-679) (-)

Ion 54.00 (53.70 to 54.70): BN007241.D (-679) (-)



#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

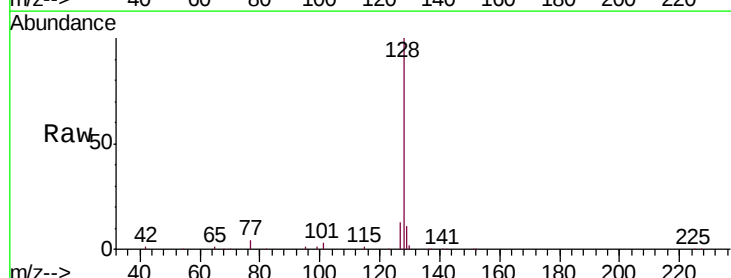
Tgt Ion: 128 Resp: 108063

Ion Ratio Lower Upper

128 100

129 11.4 9.4 14.2

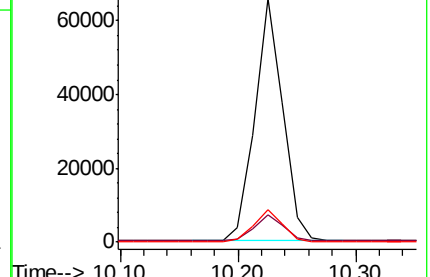
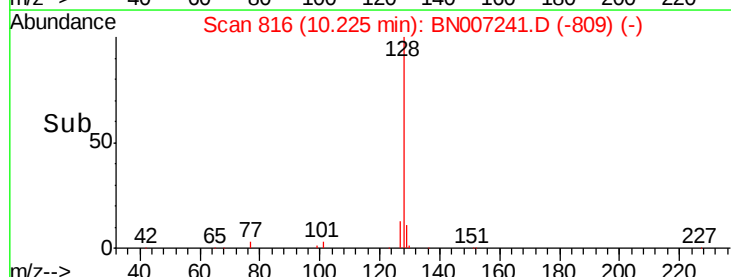
127 13.4 11.0 16.6



Abundance Ion 128.00 (127.70 to 128.70): BN007241.D (-809) (-)

Ion 129.00 (128.70 to 129.70): BN007241.D (-809) (-)

Ion 127.00 (126.70 to 127.70): BN007241.D (-809) (-)





#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 :

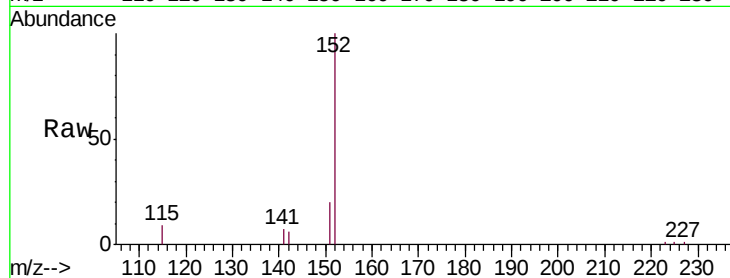
EXT-034-SW091-080519-1

Tgt Ion:152 Resp: 12092

Ion Ratio Lower Upper

152 100

151 20.7 15.5 23.3



Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

8000

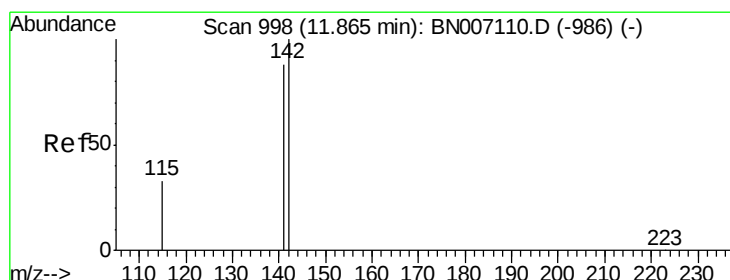
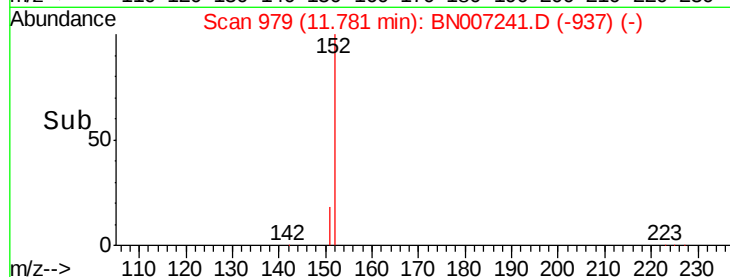
6000

4000

2000

0

Time--> 11.70 11.75 11.80 11.85



#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

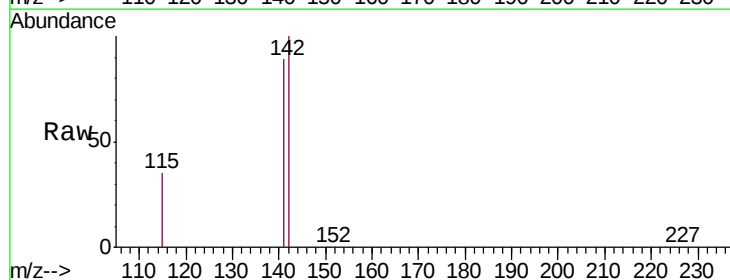
Tgt Ion:142 Resp: 124779

Ion Ratio Lower Upper

142 100

141 88.6 69.0 103.6

115 35.4 27.1 40.7



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

100000

80000

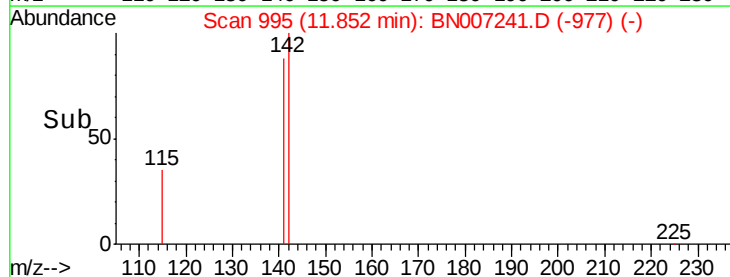
60000

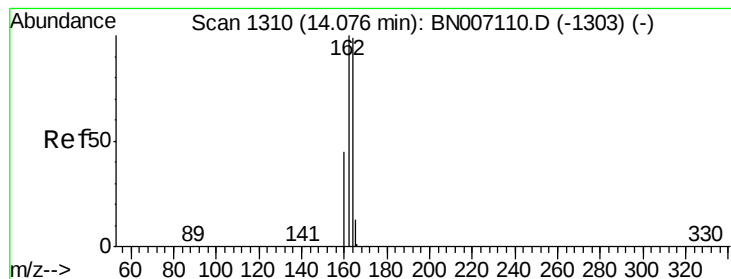
40000

20000

0

Time--> 11.80 11.85 11.90 12.00





#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 :

EXT-034-SW091-080519-1

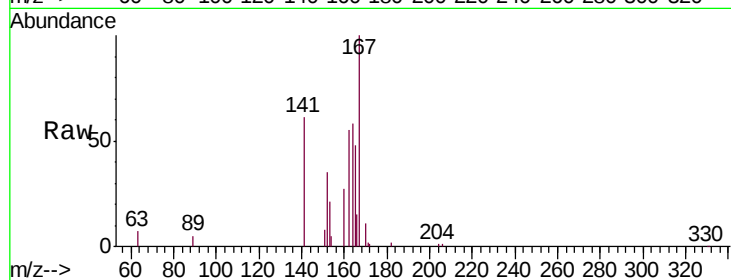
Tgt Ion:164 Resp: 19828

Ion Ratio Lower Upper

164 100

162 95.4 82.2 123.4

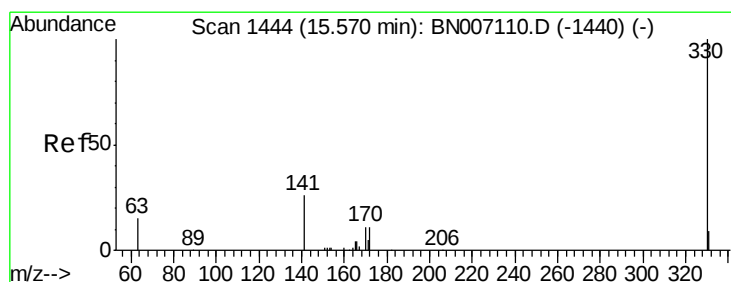
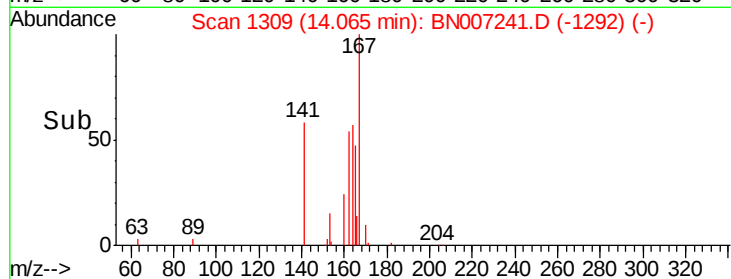
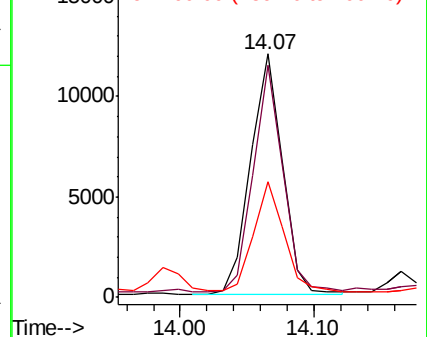
160 47.5 38.3 57.5



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

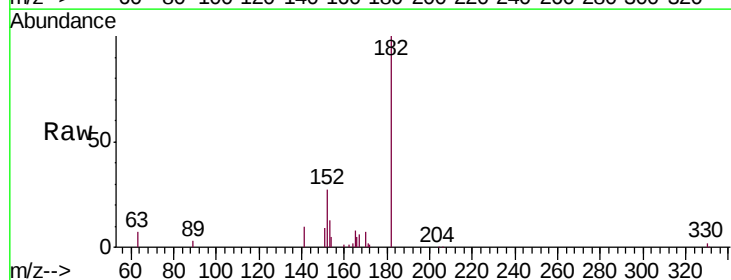
Tgt Ion:330 Resp: 2297

Ion Ratio Lower Upper

330 100

332 0.0 0.0 0.0

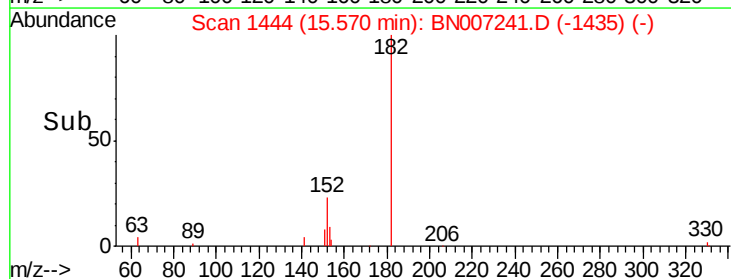
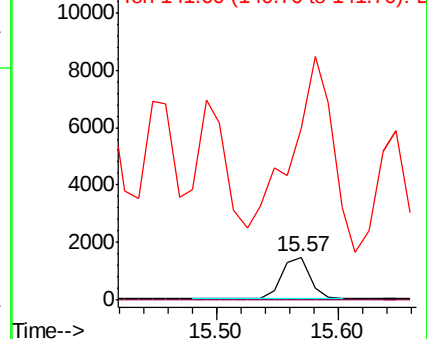
141 731.6 33.6 50.4#

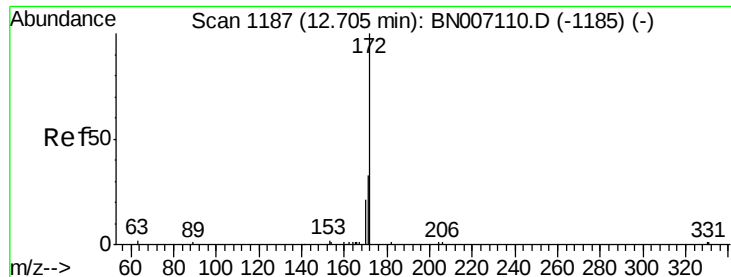


Abundance Ion 330.00 (329.70 to 330.70): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

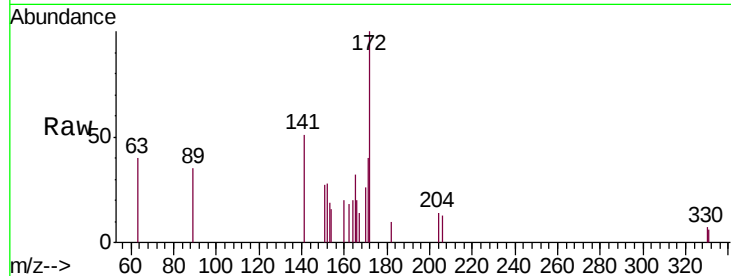




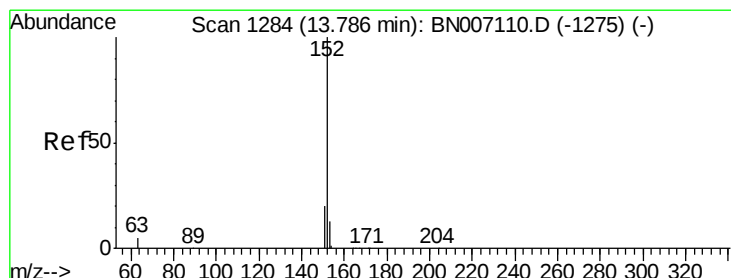
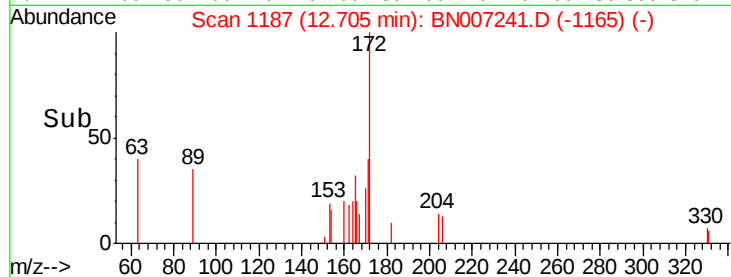
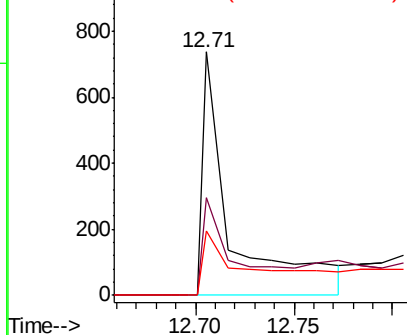
#14
2-Fluorobiphenyl
Concen: 0.027 ng
RT: 12.71 min Scan# 1187
Delta R.T. -0.00 min
Lab File: BN007241.D
Acq: 17 Aug 2019 03:16

Instrument :
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EXT-034-SW091-080519-1

Tgt Ion:172 Resp: 784
Ion Ratio Lower Upper
172 100
171 40.2 26.3 39.5#
170 26.3 17.0 25.4#

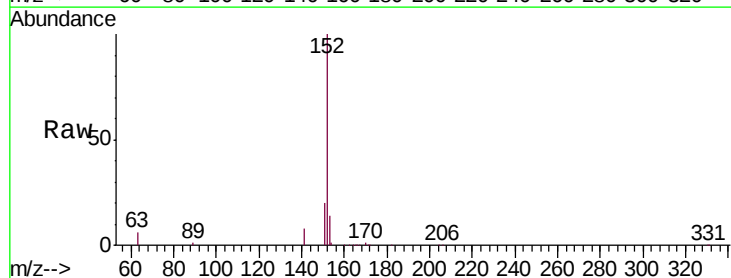


Abundance Ion 172.00 (171.70 to 172.70): E
Ion 171.00 (170.70 to 171.70): E
Ion 170.00 (169.70 to 170.70): E

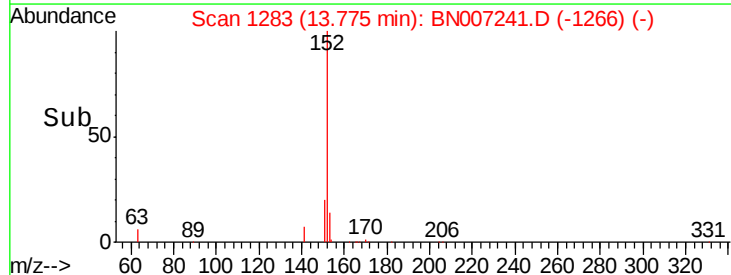
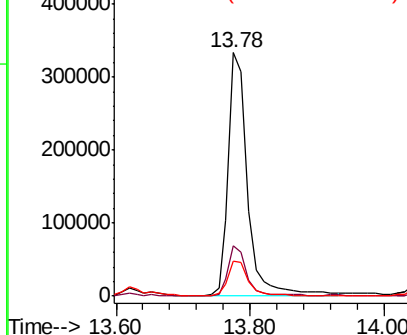


#15
Acenaphthylene
Concen: 6.358 ng
RT: 13.78 min Scan# 1283
Delta R.T. -0.01 min
Lab File: BN007241.D
Acq: 17 Aug 2019 03:16

Tgt Ion:152 Resp: 658887
Ion Ratio Lower Upper
152 100
151 19.8 15.8 23.6
153 14.9 10.4 15.6



Abundance Ion 152.00 (151.70 to 152.70): E
Ion 151.00 (150.70 to 151.70): E
Ion 153.00 (152.70 to 153.70): E





#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 :

EXT-034-SW091-080519-1

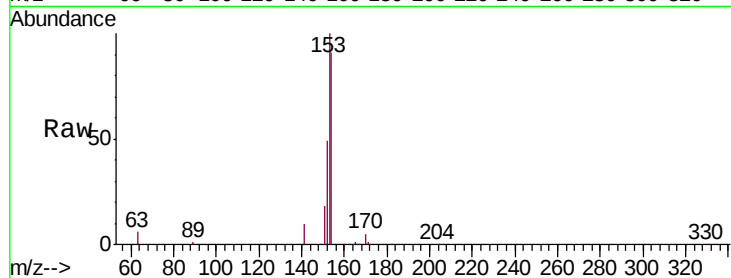
Tgt Ion:154 Resp: 139294

Ion Ratio Lower Upper

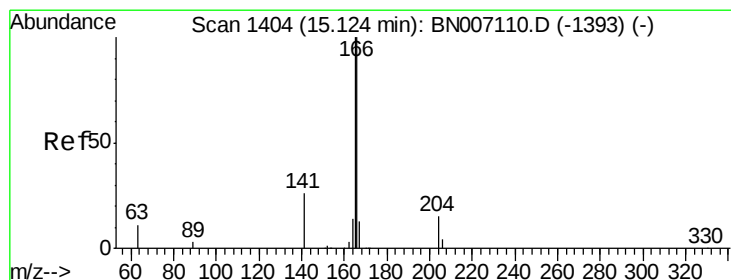
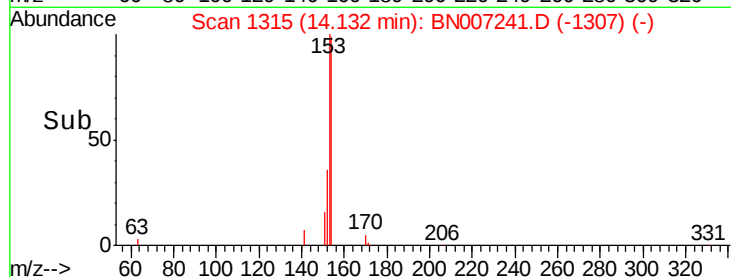
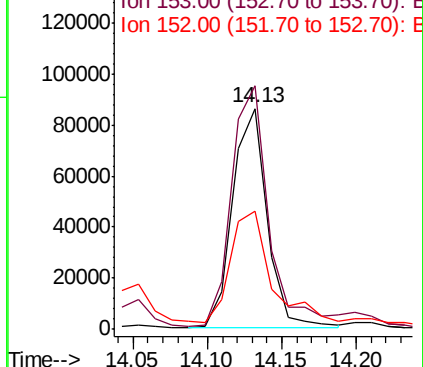
154 100

153 123.9 89.5 134.3

152 57.9 44.8 67.2



Abundance Ion 154.00 (153.70 to 154.70): E
Ion 153.00 (152.70 to 153.70): E
Ion 152.00 (151.70 to 152.70): E



#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

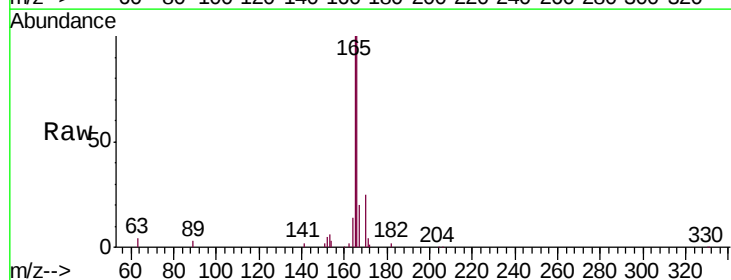
Tgt Ion:166 Resp: 285457

Ion Ratio Lower Upper

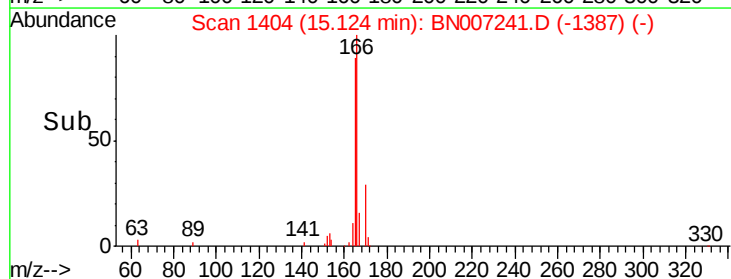
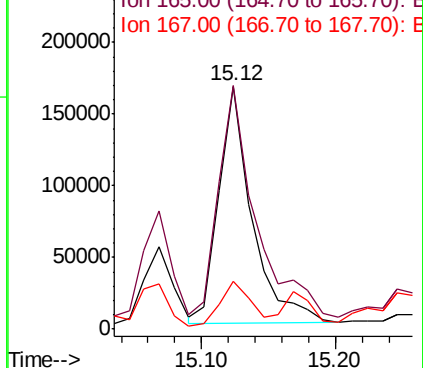
166 100

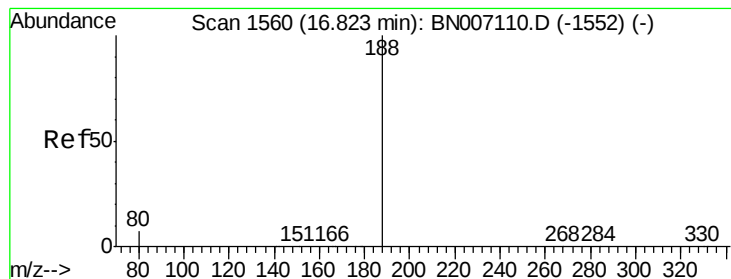
165 110.9 77.9 116.9

167 17.6 10.9 16.3#



Abundance Ion 166.00 (165.70 to 166.70): E
Ion 165.00 (164.70 to 165.70): E
Ion 167.00 (166.70 to 167.70): E





#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 :

EXT-034-SW091-080519-1

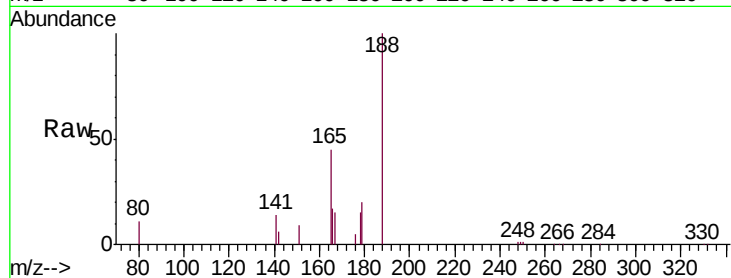
Tgt Ion:188 Resp: 37333

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

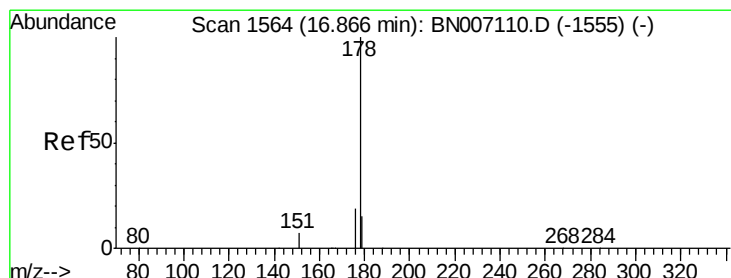
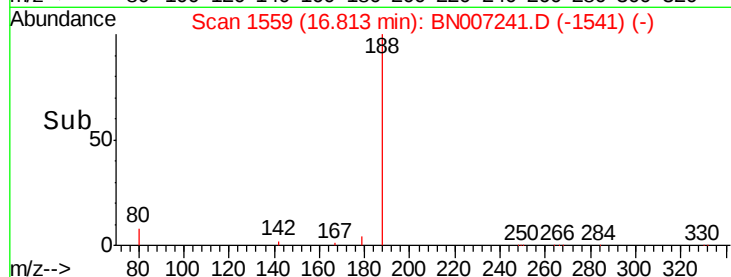
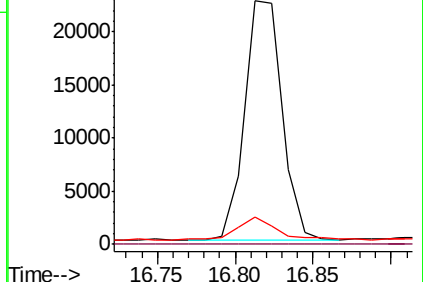
80 11.4 7.8 11.6



Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BNC

Ion 80.00 (79.70 to 80.70): BNC



#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

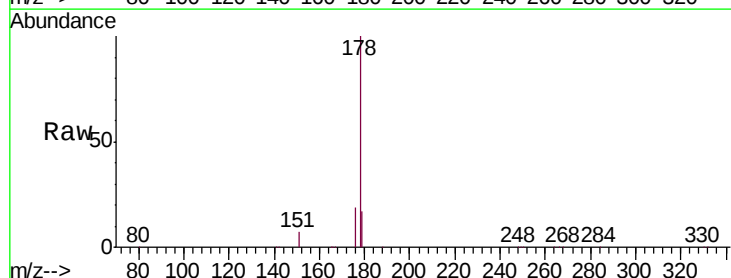
Tgt Ion:178 Resp: 6450064

Ion Ratio Lower Upper

178 100

176 19.3 15.2 22.8

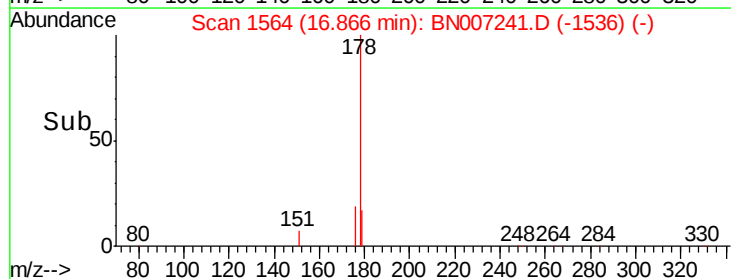
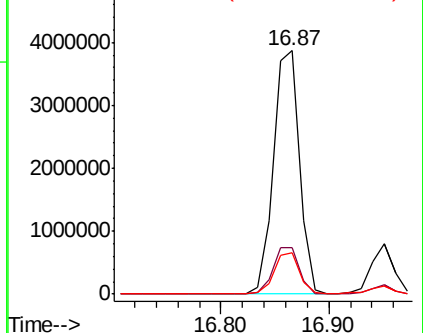
179 16.6 12.3 18.5



Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#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

ClientSampleId :

EXT-034-SW091-080519-1

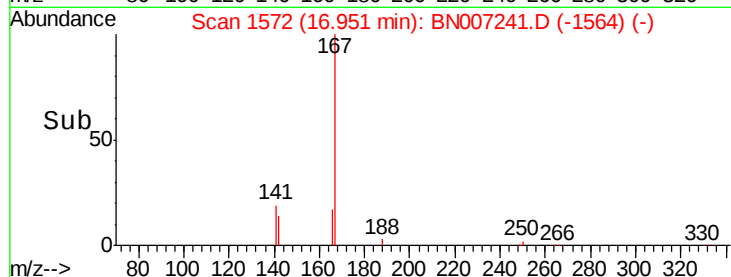
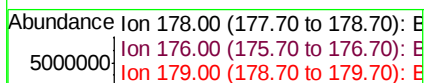
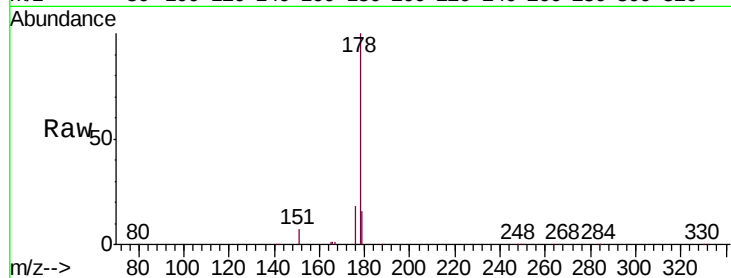
Tgt Ion:178 Resp: 1094629

Ion Ratio Lower Upper

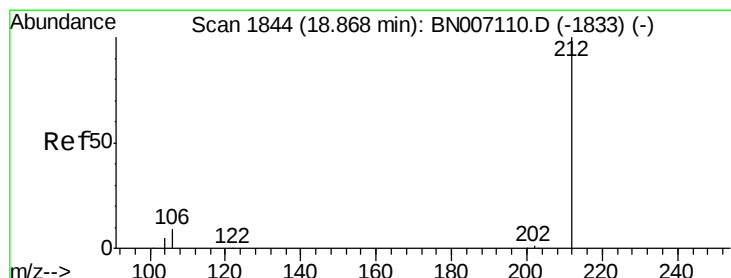
178 100

176 18.4 14.6 21.8

179 17.4 12.5 18.7



Time-->



#24

Fluoranthene-d10

Concen: 0.179 ng

RT: 18.78 min Scan# 1827

Delta R.T. -0.09 min

Lab File: BN007241.D

Acq: 17 Aug 2019 03:16

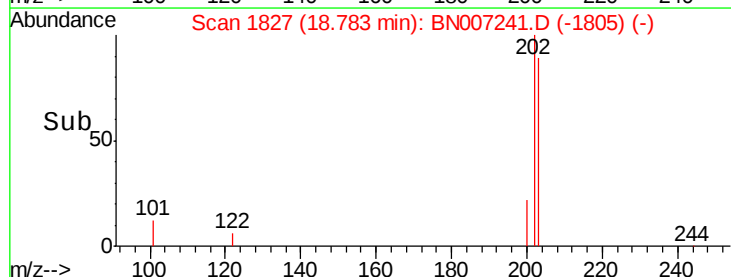
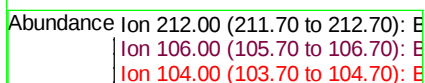
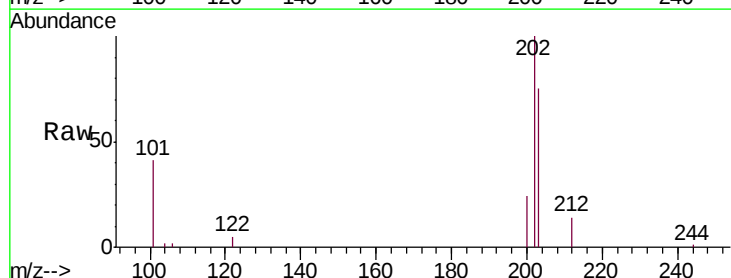
Tgt Ion:212 Resp: 23674

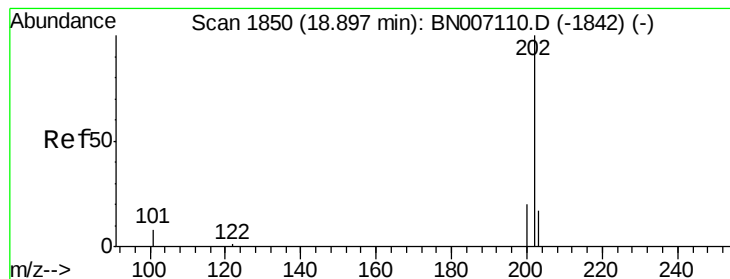
Ion Ratio Lower Upper

212 100

106 8.8 8.2 12.2

104 6.2 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 :

EXT-034-SW091-080519-1

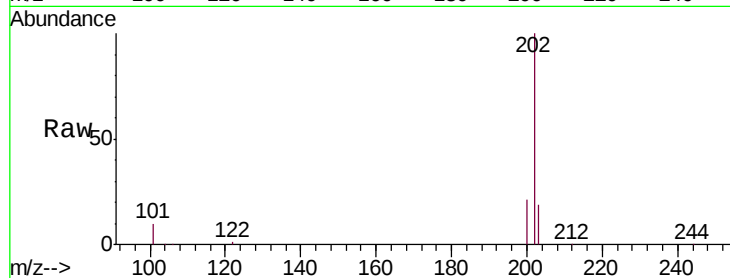
Tgt Ion:202 Resp: 6799312

Ion Ratio Lower Upper

202 100

101 9.4 7.0 10.4

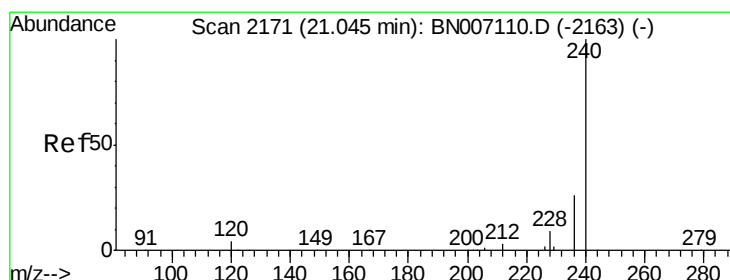
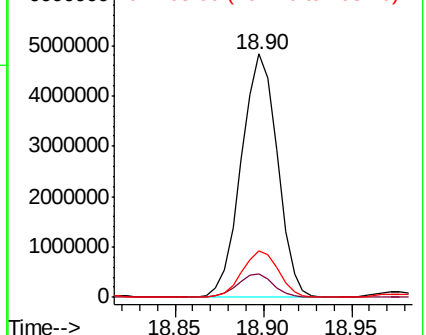
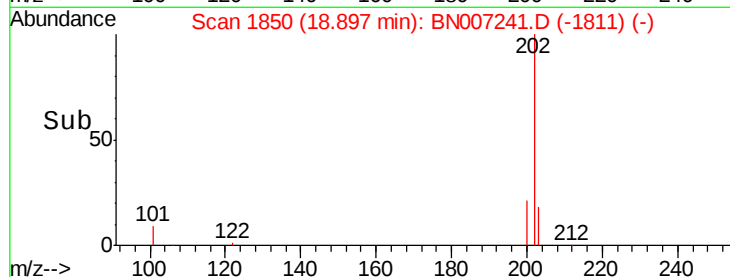
203 19.1 13.8 20.8



Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E



#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

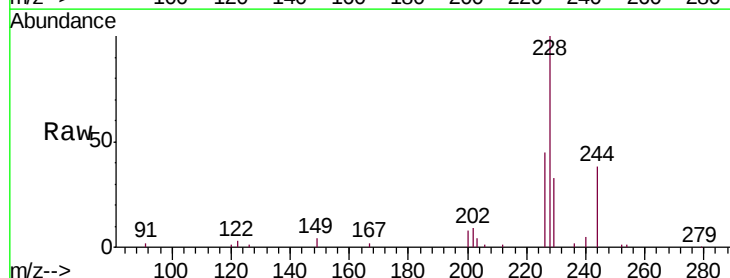
Tgt Ion:240 Resp: 43949

Ion Ratio Lower Upper

240 100

120 19.0 4.0 6.0#

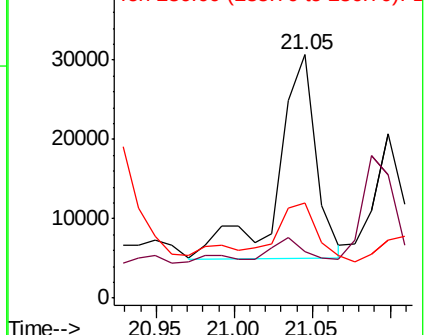
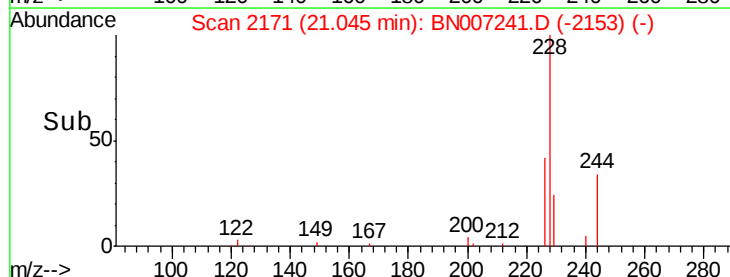
236 39.0 21.3 31.9#

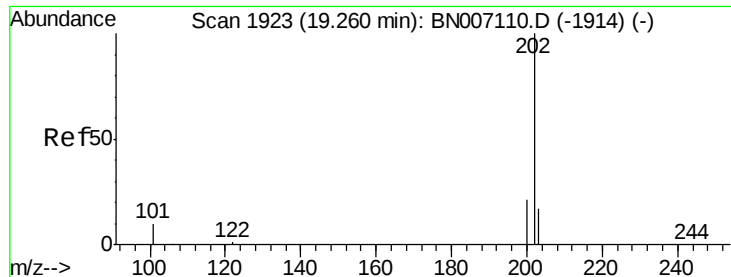


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E

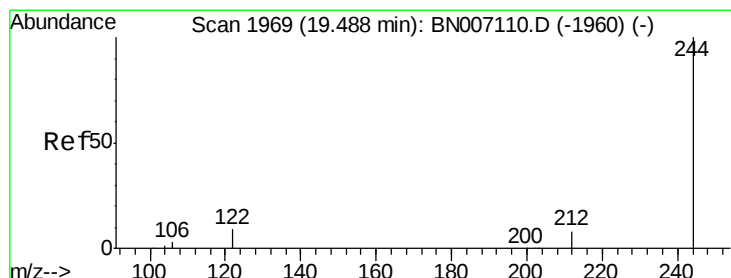
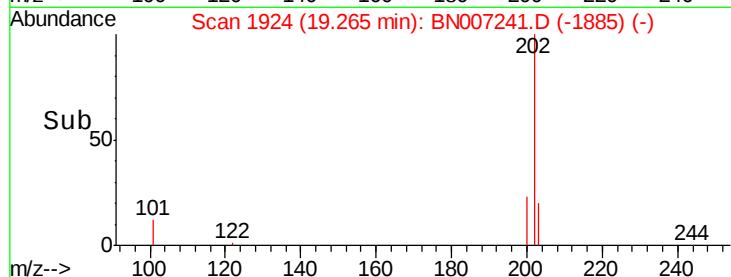
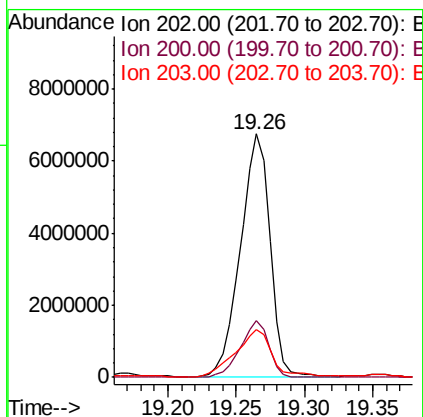
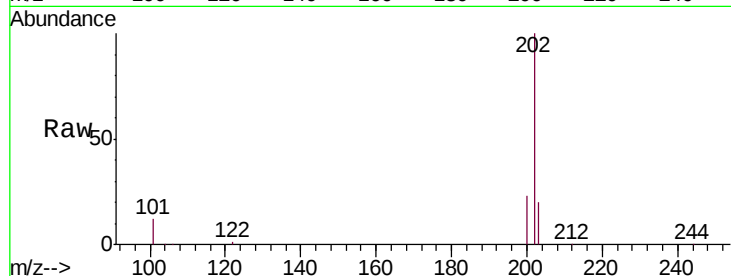




#27
 Pyrene
 Concen: 65.763 ng
 RT: 19.26 min Scan# 1924
 Delta R.T. -0.01 min
 Lab File: BN007241.D
 Acq: 17 Aug 2019 03:16

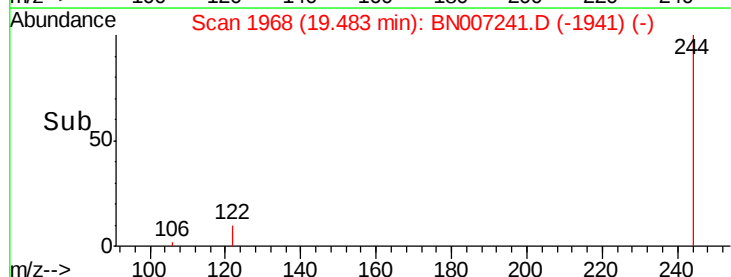
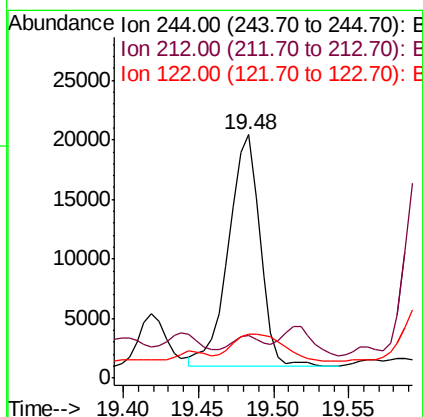
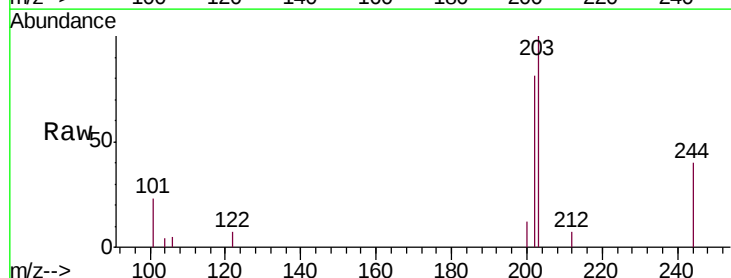
Instrument :
 BNA_N
 ClientSampleId :
 EXT-034-SW091-080519-1

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



#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

ClientSampleId :

EXT-034-SW091-080519-1

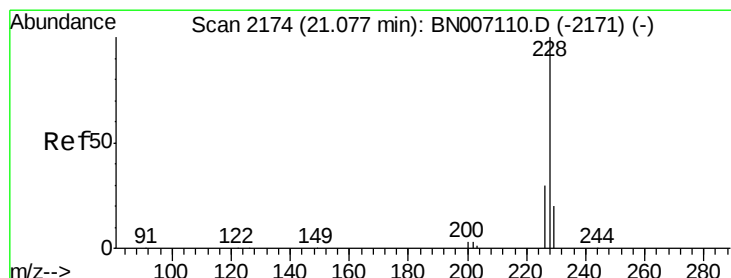
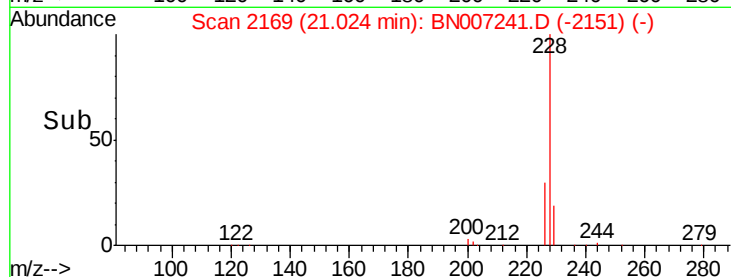
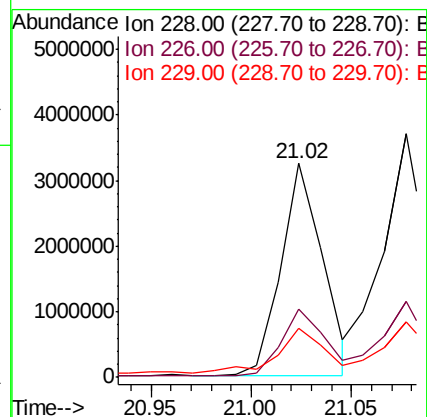
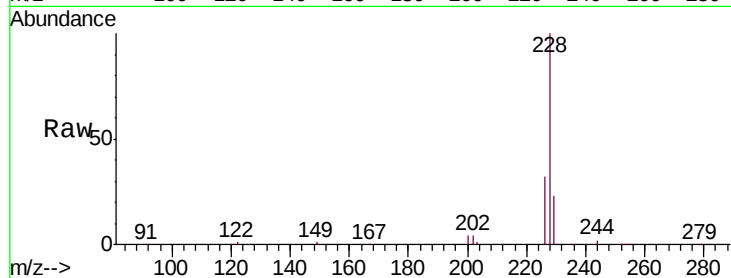
Tgt Ion:228 Resp: 4673873

Ion Ratio Lower Upper

228 100

226 31.6 21.8 32.6

229 22.8 15.6 23.4



#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

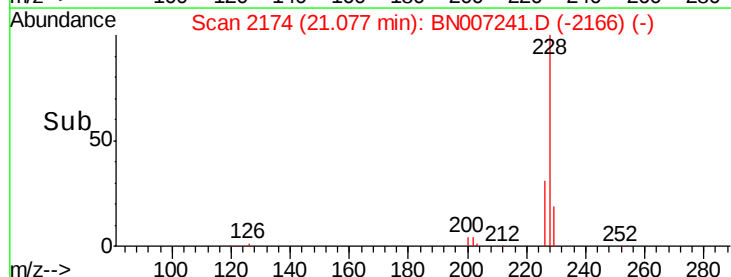
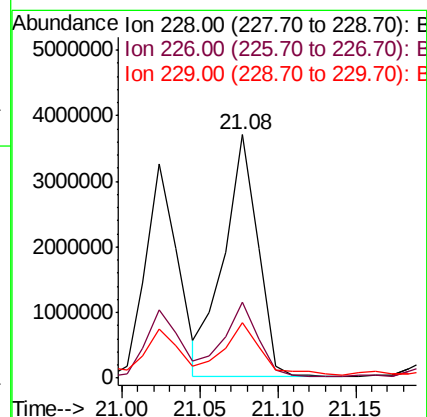
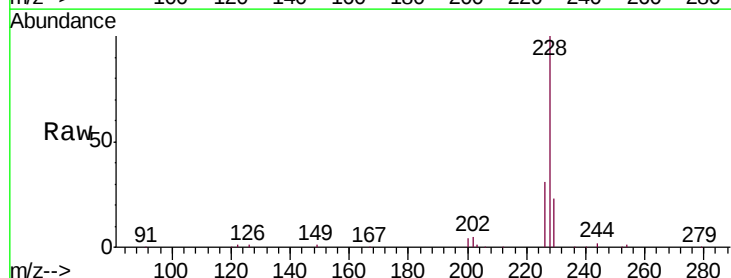
Tgt Ion:228 Resp: 5570551

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 :

EXT-034-SW091-080519-1

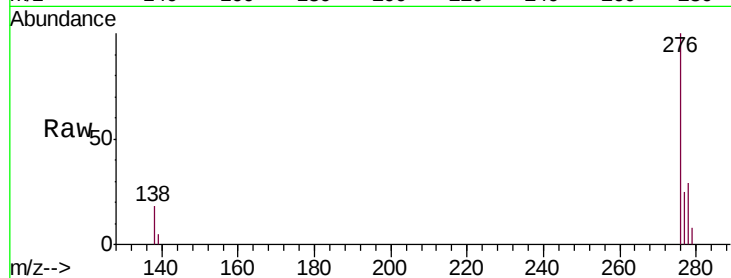
Tgt Ion:276 Resp: 2449767

Ion Ratio Lower Upper

276 100

138 18.2 16.0 24.0

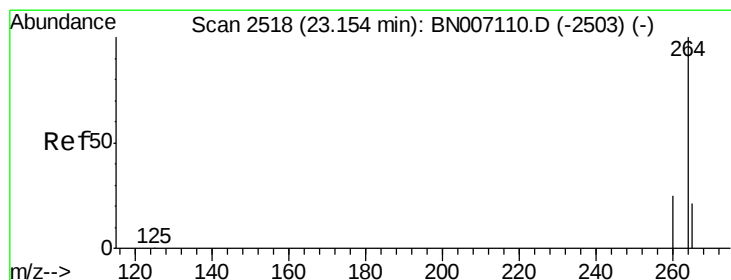
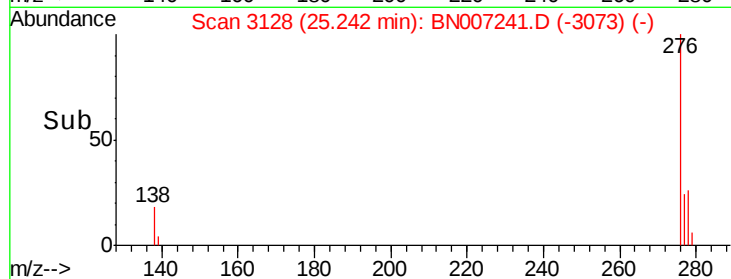
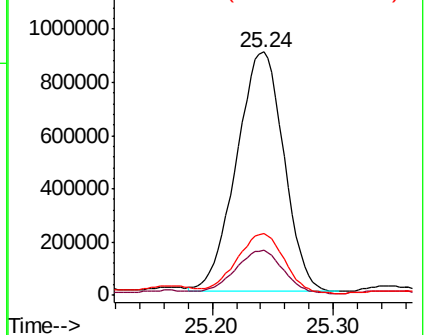
277 25.1 19.9 29.9



Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E



#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

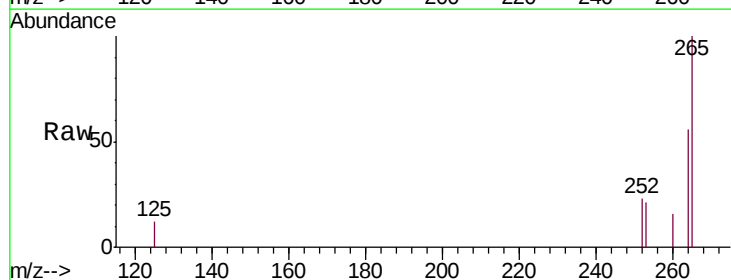
Tgt Ion:264 Resp: 64983

Ion Ratio Lower Upper

264 100

260 28.3 19.8 29.8

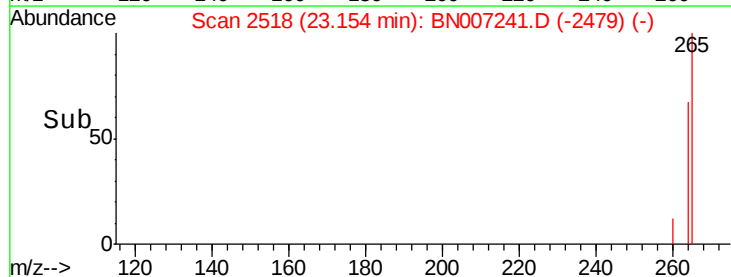
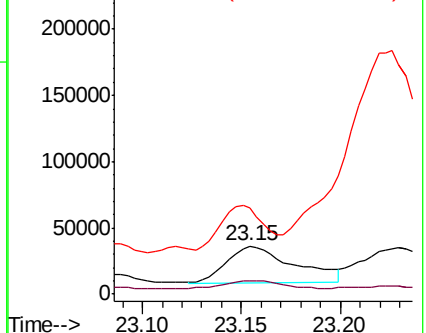
265 179.5 26.2 39.4#

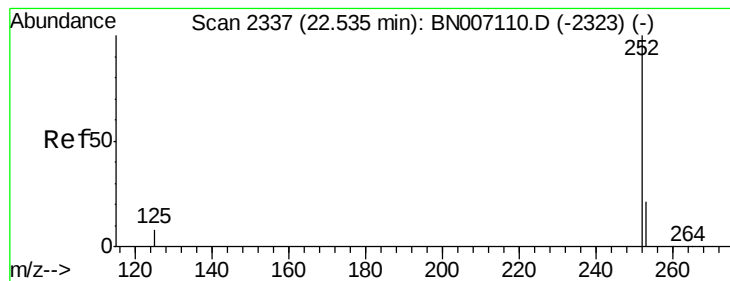


Abundance Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E





#33

Benzo(b)fluoranthene

Concen: 28.508 ng

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

ClientSampleId :

EXT-034-SW091-080519-1

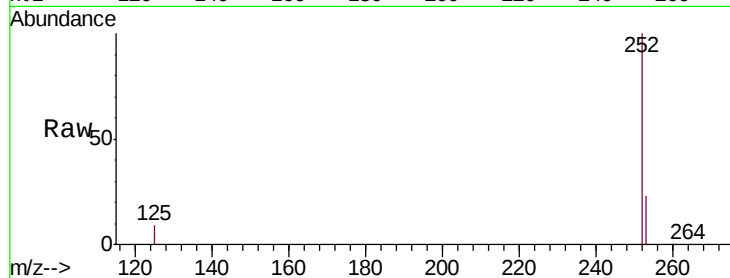
Tgt Ion:252 Resp: 6352385

Ion Ratio Lower Upper

252 100

253 23.1 18.2 27.2

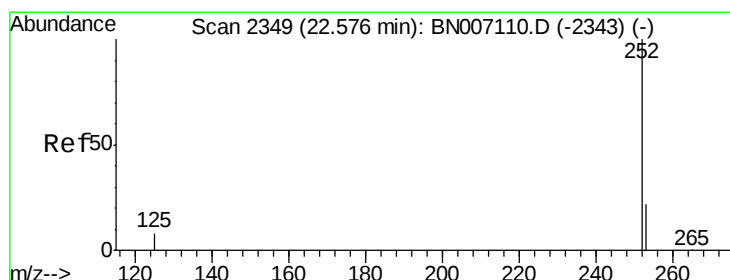
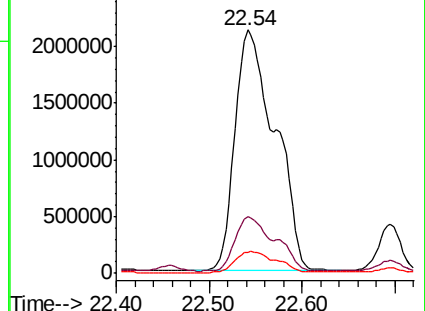
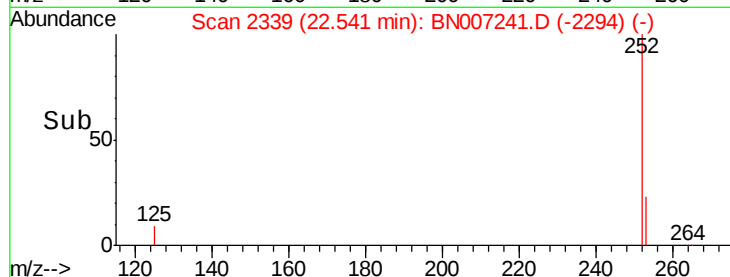
125 8.8 7.4 11.0



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



#34

Benzo(k)fluoranthene

Concen: 28.865 ng

RT: 22.54 min Scan# 2339

Delta R.T. -0.05 min

Lab File: BN007241.D

Acq: 17 Aug 2019 03:16

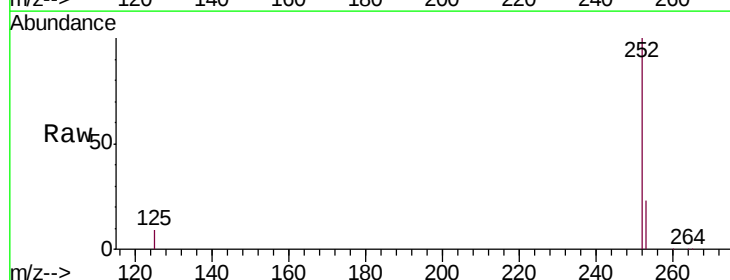
Tgt Ion:252 Resp: 6352319

Ion Ratio Lower Upper

252 100

253 23.1 18.1 27.1

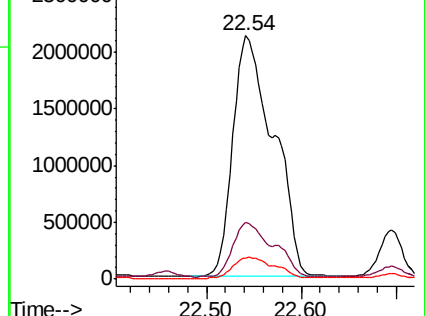
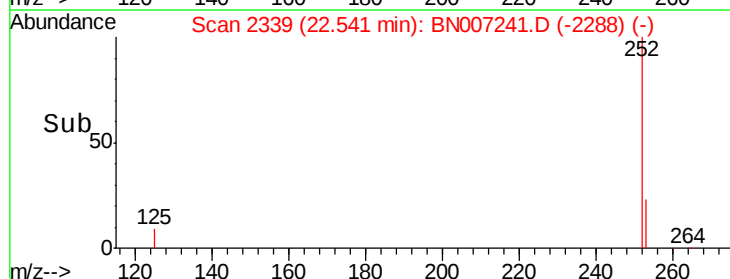
125 8.8 7.4 11.0

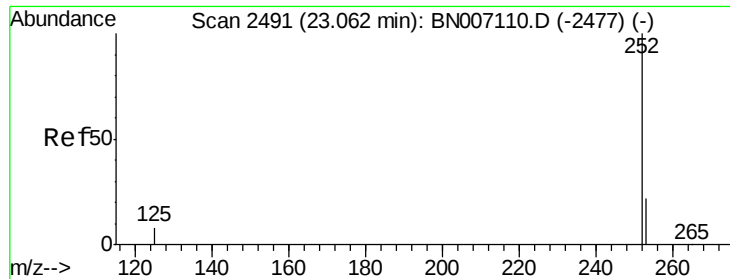


Abundance Ion 252.00 (251.70 to 252.70): E

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

ClientSampleId :

EXT-034-SW091-080519-1

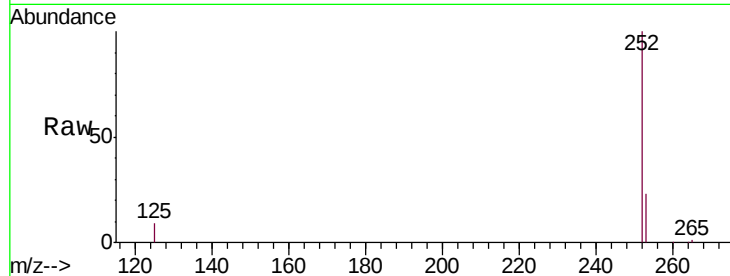
Tgt Ion:252 Resp: 4069709

Ion Ratio Lower Upper

252 100

253 23.2 18.5 27.7

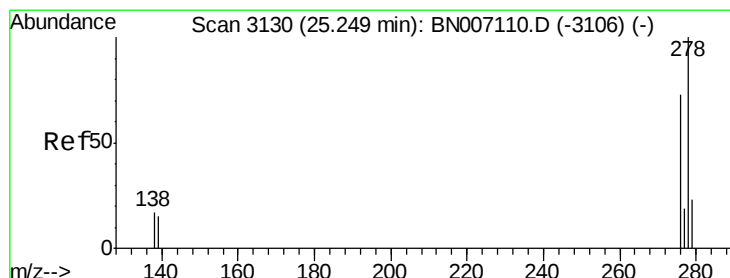
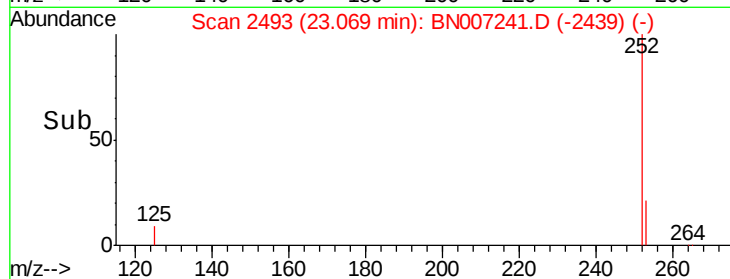
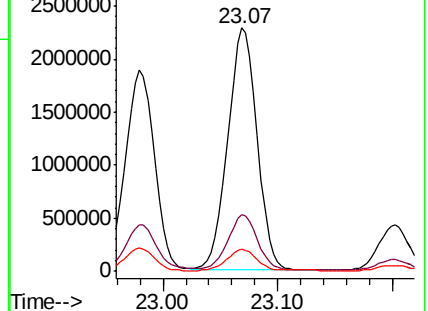
125 9.0 8.2 12.4



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: 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

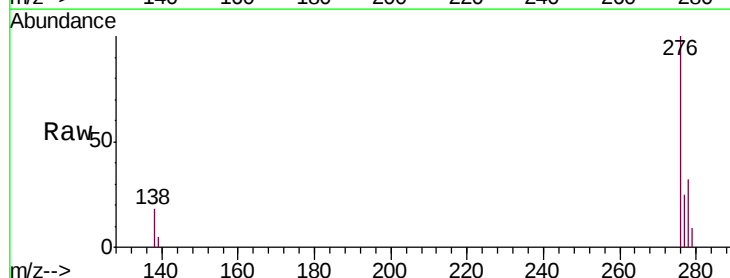
Tgt Ion:278 Resp: 777754

Ion Ratio Lower Upper

278 100

139 15.2 11.3 16.9

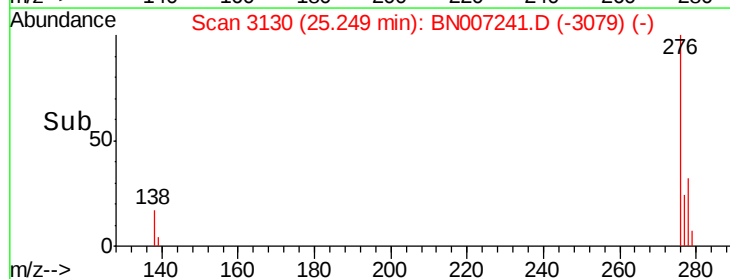
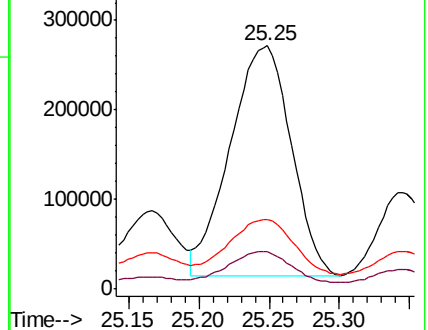
279 28.8 19.3 28.9



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(g,h,i)perylene

Concen: 13.860 ng

RT: 25.88 min Scan# 3314

Delta R.T. -0.00 min

Lab File: BN007241.D

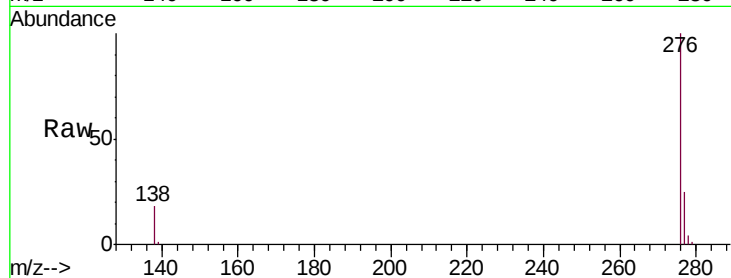
Acq: 17 Aug 2019 03:16

Instrument :

BNA_N

ClientSampleId :

EXT-034-SW091-080519-1



Tgt Ion:276 Resp: 2873576

Ion Ratio Lower Upper

276 100

277 24.7 19.8 29.8

138 18.3 14.6 22.0

