

Data File : BN007242.D
Acq On : 17 Aug 2019 03:52
Operator : HP/JU
Sample : K4239-18
Misc :
ALS Vial : 23 Sample Multiplier: 1

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

Quant Time: Aug 17 06:29:00 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	7741	0.40	ng	0.00
6) Naphthalene-d8	10.17	136	29732	0.40	ng	-0.01
12) Acenaphthene-d10	14.07	164	18688	0.40	ng	-0.01
18) Phenanthrene-d10	16.82	188	37373	0.40	ng	0.00
26) Chrysene-d12	21.03	240	40370	0.40	ng	-0.02
32) Perylene-d12	23.15	264	56279	0.40	ng	-0.02

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
3) 2-Fluorophenol	5.06	112	4911	0.26	ng	0.00
4) Phenol-d6	6.61	99	6278	0.27	ng	0.00
7) Nitrobenzene-d5	8.55	82	6394	0.27	ng	-0.01
10) 2-Methylnaphthalene-d10	11.78	152	10153	0.18	ng	-0.01
13) 2,4,6-Tribromophenol	15.57	330	1931	0.19	ng	0.00
14) 2-Fluorobiphenyl	12.71	172	831	0.03	ng	0.00
24) Fluoranthene-d10	18.86	212	21583	0.16	ng	-0.01
28) Terphenyl-d14	19.48	244	21948	0.20	ng	-0.02

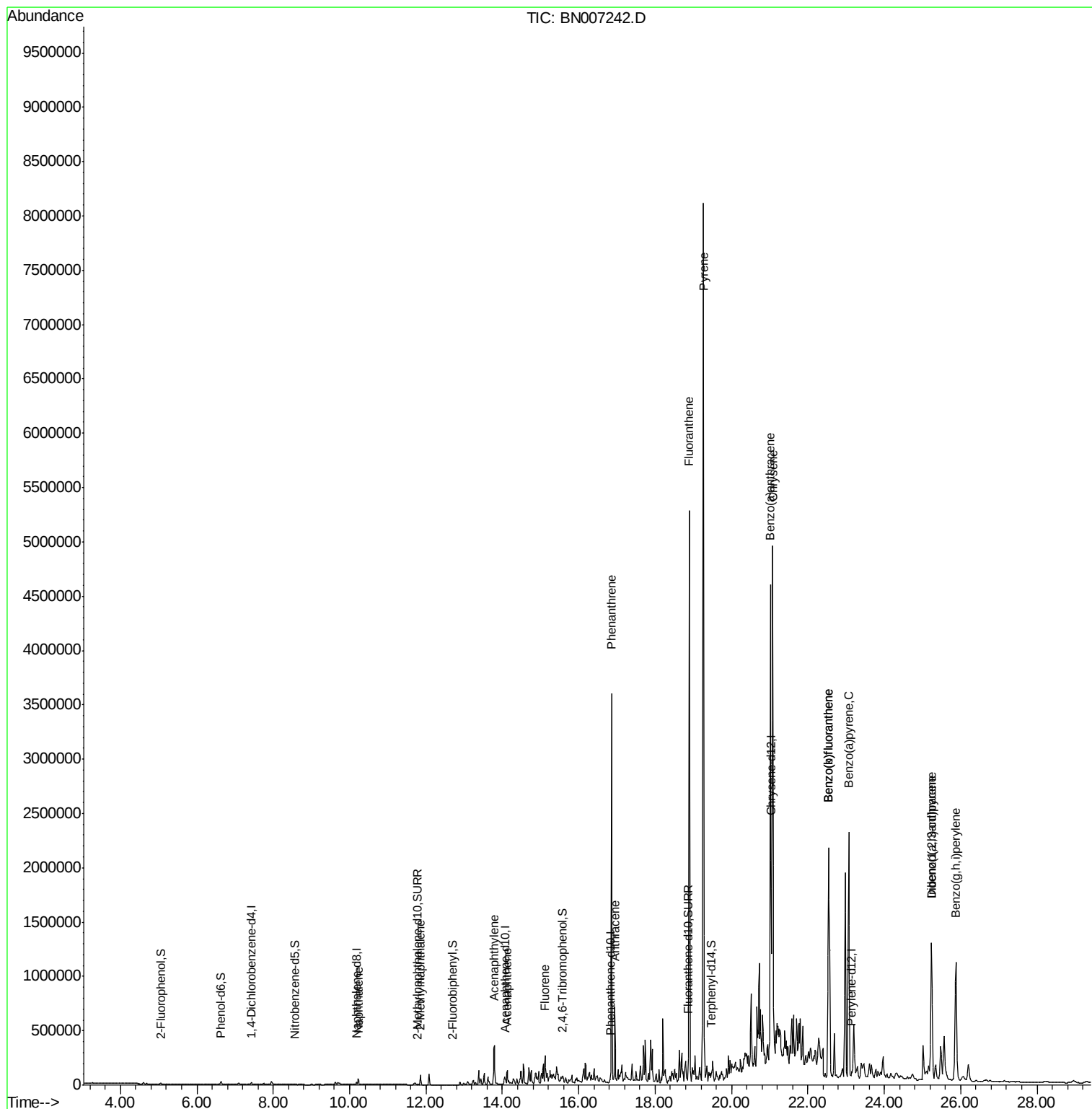
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
8) Naphthalene	10.23	128	74769	0.897	ng	99
11) 2-Methylnaphthalene	11.86	142	67187	1.137	ng	97
15) Acenaphthylene	13.79	152	481528	4.930	ng	99
16) Acenaphthene	14.13	154	68662	1.097	ng	92
17) Fluorene	15.12	166	158460	1.693	ng	# 83
22) Phenanthrene	16.87	178	4126438	36.842	ng	99
23) Anthracene	16.95	178	679991	6.645	ng	98
25) Fluoranthene	18.90	202	4971526	34.699	ng	97
27) Pyrene	19.26	202	7834170	55.336	ng	# 93
29) Benzo(a)anthracene	21.02	228	3666074	24.832	ng	92
30) Chrysene	21.08	228	4305415	30.016	ng	97
31) Indeno(1,2,3-cd)pyrene	25.24	276	1826365	11.553	ng	98
33) Benzo(b)fluoranthene	22.54	252	4698120	24.344	ng	99
34) Benzo(k)fluoranthene	22.54	252	4698120	24.650	ng	99
35) Benzo(a)pyrene	23.07	252	3105619	17.751	ng	99
36) Dibenzo(a,h)anthracene	25.25	278	584409	3.348	ng	# 91
37) Benzo(g,h,i)perylene	25.87	276	2182376	12.154	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: 7.43 min Scan# 546

Delta R.T. -0.01 min

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Instrument :

BNA_N

ClientSampleId :

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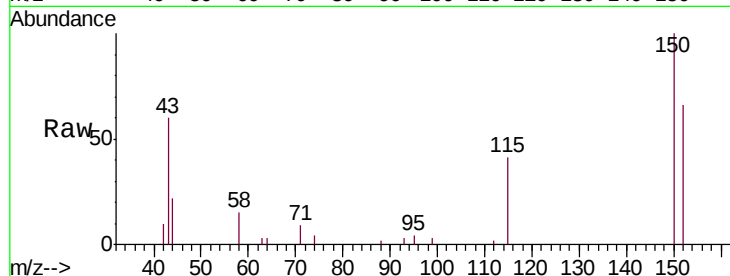
Tgt Ion:152 Resp: 7741

Ion Ratio Lower Upper

152 100

150 151.7 121.7 182.5

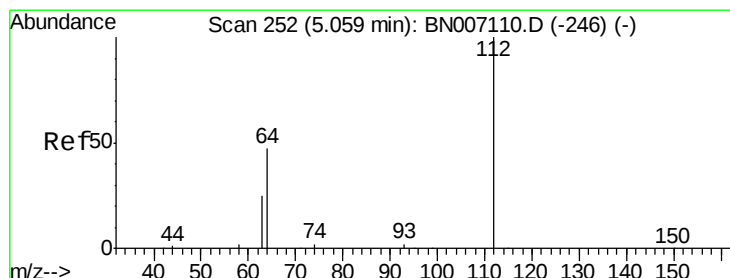
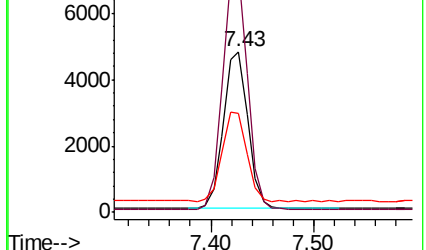
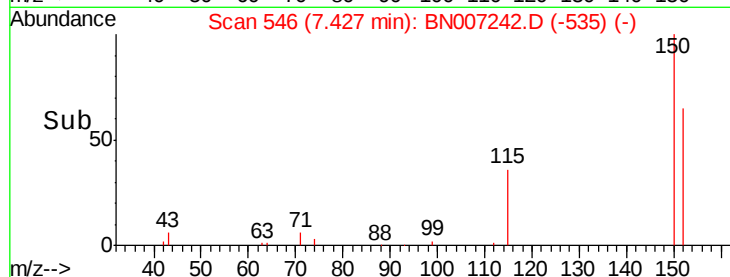
115 61.5 46.2 69.4



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: 0.264 ng

RT: 5.06 min Scan# 252

Delta R.T. -0.00 min

Lab File: BN007242.D

Acq: 17 Aug 2019 03:52

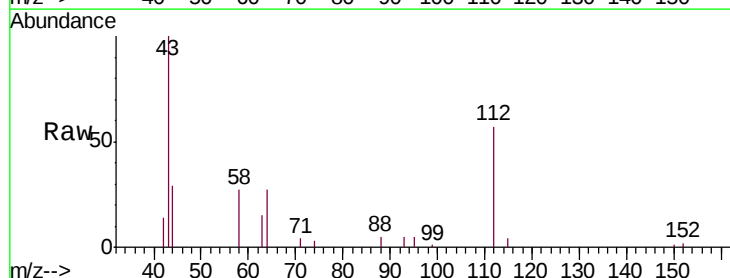
Tgt Ion:112 Resp: 4911

Ion Ratio Lower Upper

112 100

64 52.0 42.6 63.8

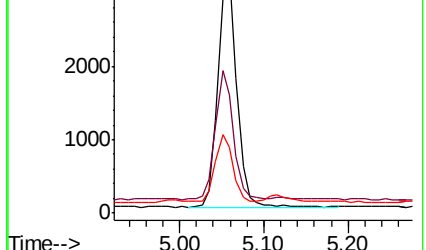
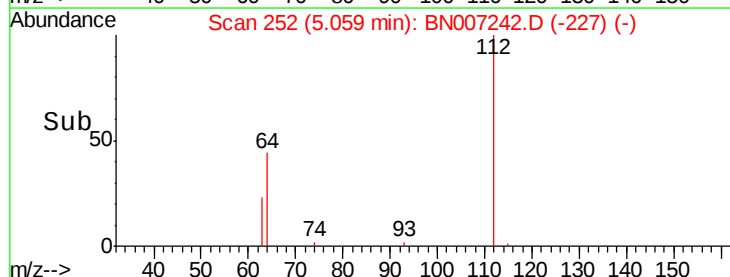
63 27.5 22.2 33.2



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: 0.272 ng

RT: 6.61 min Scan# 445

Delta R.T. -0.00 min

Lab File: BN007242.D

Acq: 17 Aug 2019 03:52

Instrument :

BNA_N

ClientSampleId :

EXT-034-SW091-080519

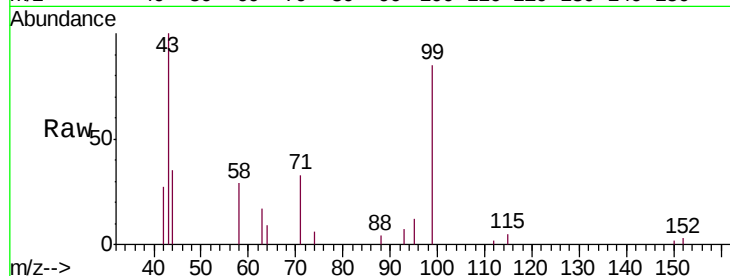
Tgt Ion: 99 Resp: 6278

Ion Ratio Lower Upper

99 100

42 44.5 15.8 23.6#

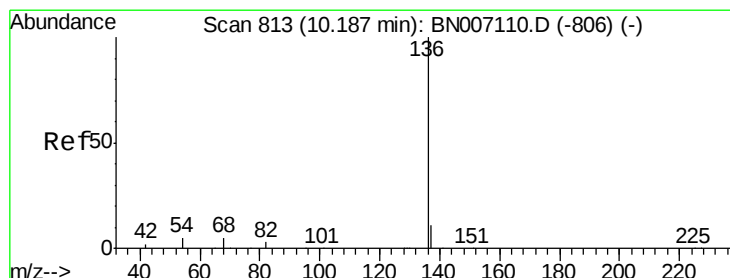
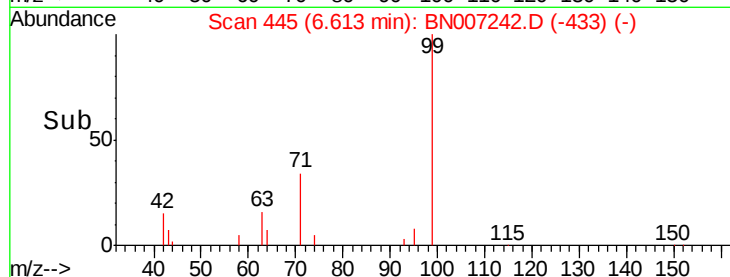
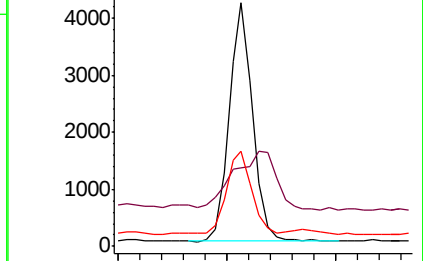
71 37.3 27.0 40.4



Abundance Ion 99.00 (98.70 to 99.70): BN007110.D (-439) (-)

Ion 42.00 (41.70 to 42.70): BN007110.D (-439) (-)

Ion 71.00 (70.70 to 71.70): BN007110.D (-439) (-)



#6

Naphthalene-d8

Concen: 0.400 ng

RT: 10.17 min Scan# 812

Delta R.T. -0.01 min

Lab File: BN007242.D

Acq: 17 Aug 2019 03:52

Tgt Ion: 136 Resp: 29732

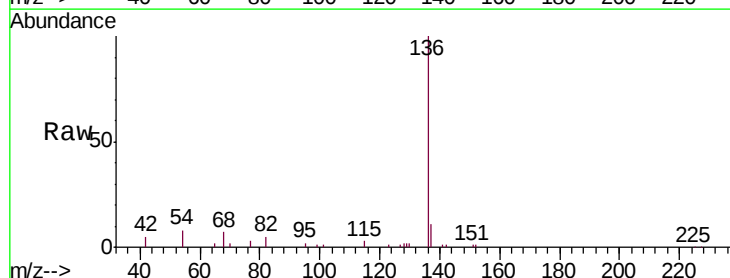
Ion Ratio Lower Upper

136 100

137 11.4 9.4 14.0

54 7.8 6.6 9.8

68 7.0 6.0 9.0

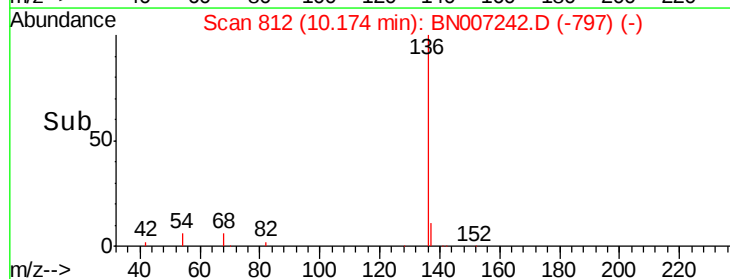
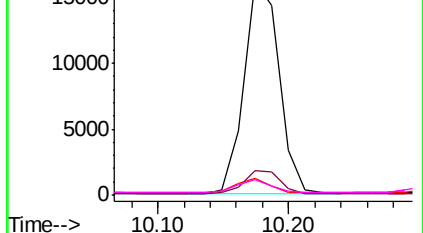


Abundance Ion 136.00 (135.70 to 136.70): BN007110.D (-806) (-)

Ion 137.00 (136.70 to 137.70): BN007110.D (-806) (-)

Ion 54.00 (53.70 to 54.70): BN007110.D (-806) (-)

Ion 68.00 (67.70 to 68.70): BN007110.D (-806) (-)





#7

Nitrobenzene-d5

Concen: 0.267 ng

RT: 8.55 min Scan# 684

Delta R.T. -0.01 min

Lab File: BN007242.D

Acq: 17 Aug 2019 03:52

Instrument :

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ClientSampleId :

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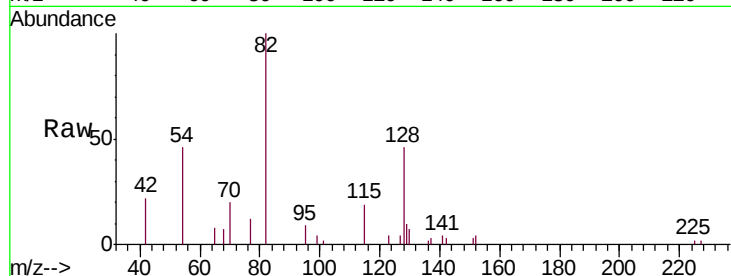
Tgt Ion: 82 Resp: 6394

Ion Ratio Lower Upper

82 100

128 45.6 34.6 51.8

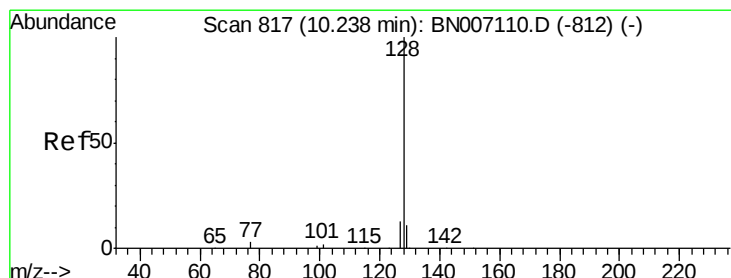
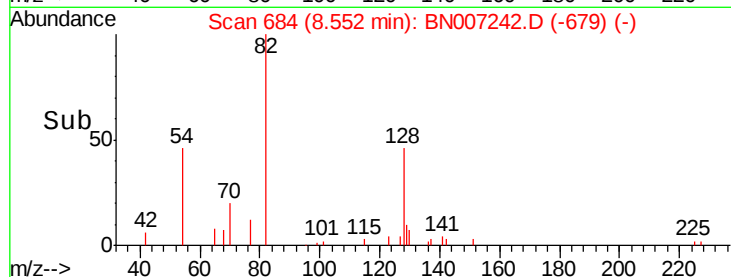
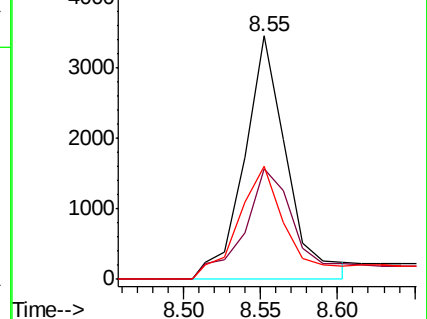
54 46.3 36.2 54.4



Abundance Ion 82.00 (81.70 to 82.70): BN0

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BN0



#8

Naphthalene

Concen: 0.897 ng

RT: 10.23 min Scan# 816

Delta R.T. -0.01 min

Lab File: BN007242.D

Acq: 17 Aug 2019 03:52

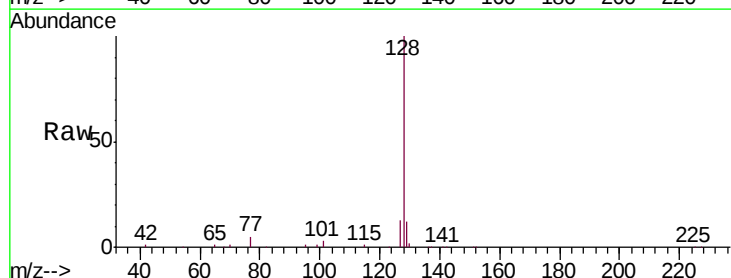
Tgt Ion: 128 Resp: 74769

Ion Ratio Lower Upper

128 100

129 11.6 9.4 14.2

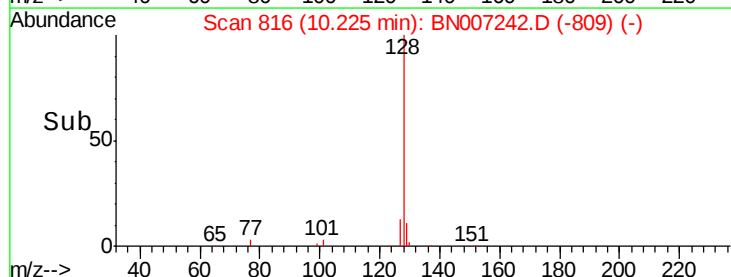
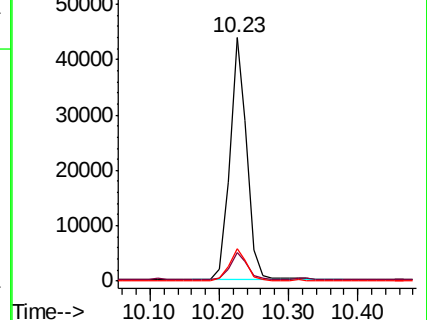
127 13.4 11.0 16.6



Abundance Ion 128.00 (127.70 to 128.70): E

Ion 129.00 (128.70 to 129.70): E

Ion 127.00 (126.70 to 127.70): E





#10

2-Methylnaphthalene-d10

Concen: 0.183 ng

RT: 11.78 min Scan# 979

Delta R.T. -0.01 min

Lab File: BN007242.D

Acq: 17 Aug 2019 03:52

Instrument :

BNA_N

ClientSampleId :

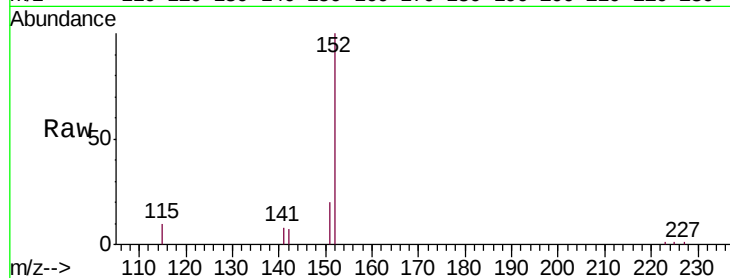
EXT-034-SW091-080519

Tgt Ion:152 Resp: 10153

Ion Ratio Lower Upper

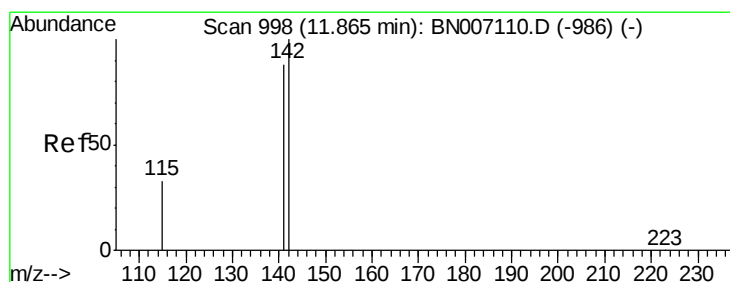
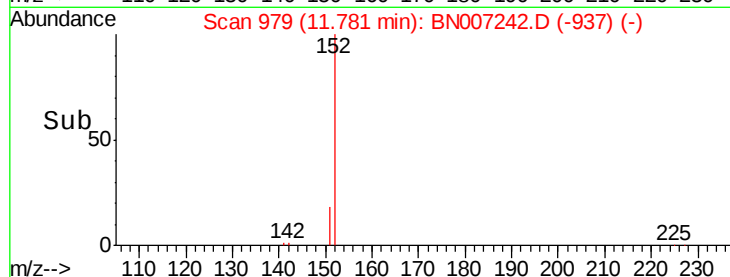
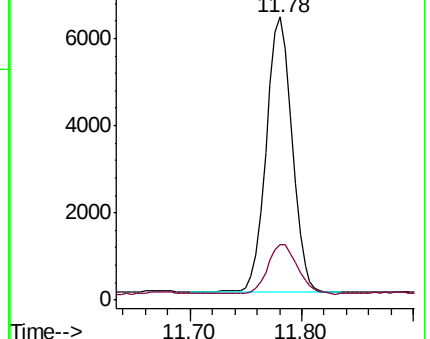
152 100

151 20.6 15.5 23.3



Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E



#11

2-Methylnaphthalene

Concen: 1.137 ng

RT: 11.86 min Scan# 996

Delta R.T. -0.01 min

Lab File: BN007242.D

Acq: 17 Aug 2019 03:52

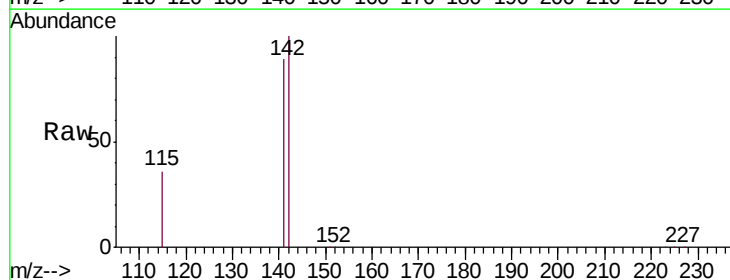
Tgt Ion:142 Resp: 67187

Ion Ratio Lower Upper

142 100

141 89.1 69.0 103.6

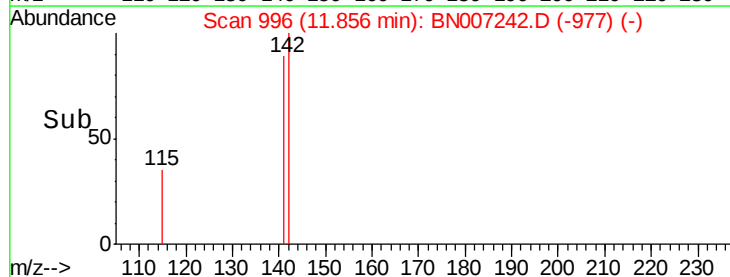
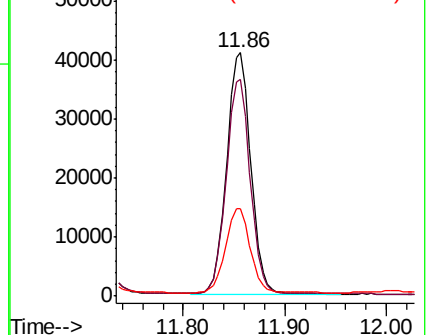
115 35.8 27.1 40.7

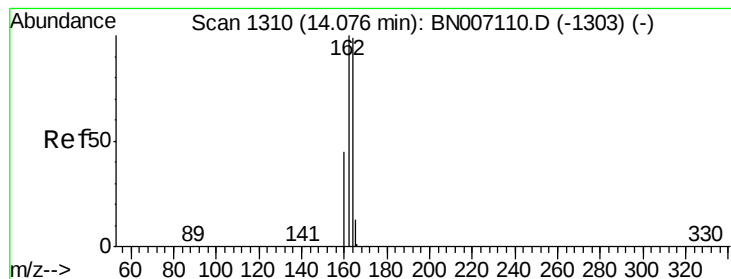


Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E

Ion 115.00 (114.70 to 115.70): E





#12

Acenaphthene-d10

Concen: 0.400 ng

RT: 14.07 min Scan# 1309

Delta R.T. -0.01 min

Lab File: BN007242.D

Acq: 17 Aug 2019 03:52

Instrument :

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EXT-034-SW091-080519

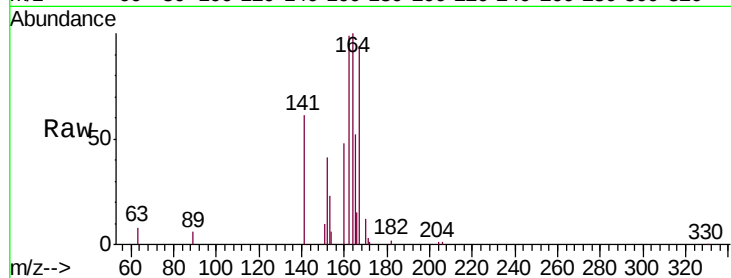
Tgt Ion:164 Resp: 18688

Ion Ratio Lower Upper

164 100

162 99.4 82.2 123.4

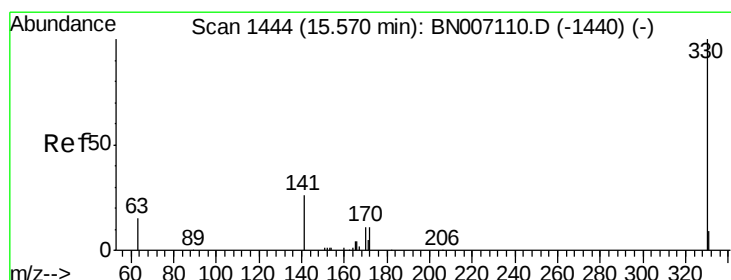
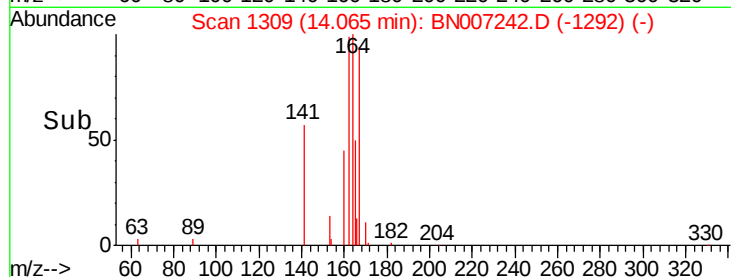
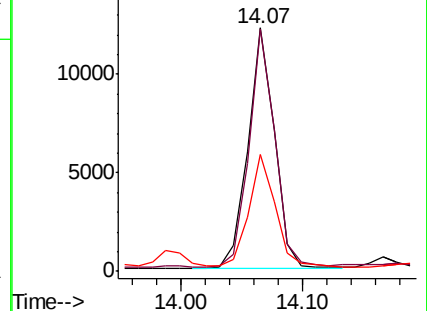
160 48.1 38.3 57.5



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: 0.192 ng

RT: 15.57 min Scan# 1444

Delta R.T. -0.00 min

Lab File: BN007242.D

Acq: 17 Aug 2019 03:52

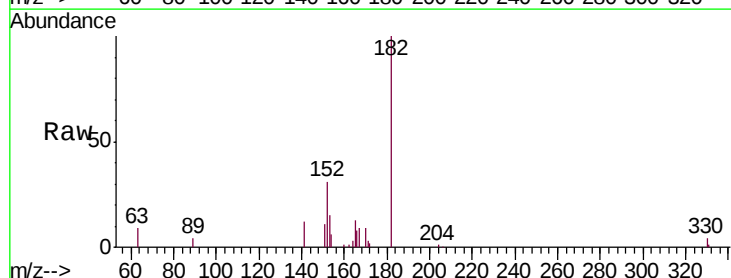
Tgt Ion:330 Resp: 1931

Ion Ratio Lower Upper

330 100

332 0.0 0.0 0.0

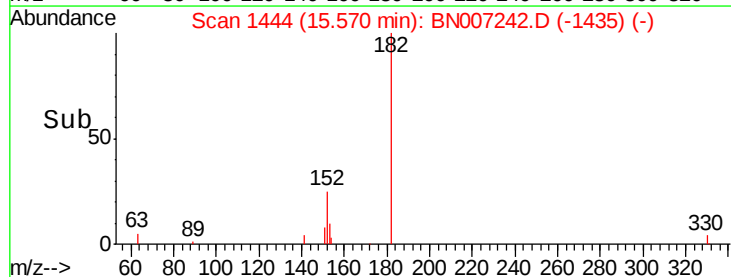
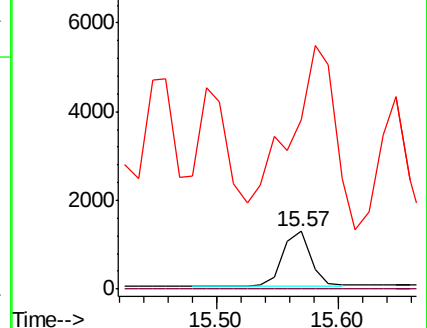
141 567.6 33.6 50.4#



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

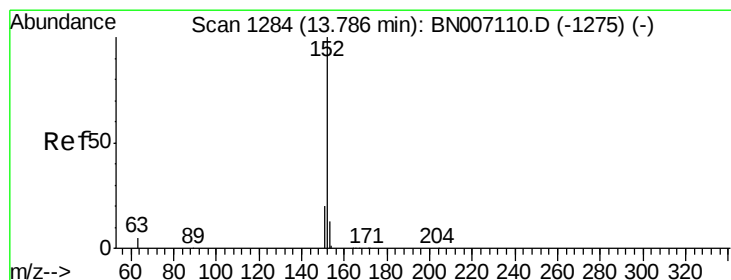
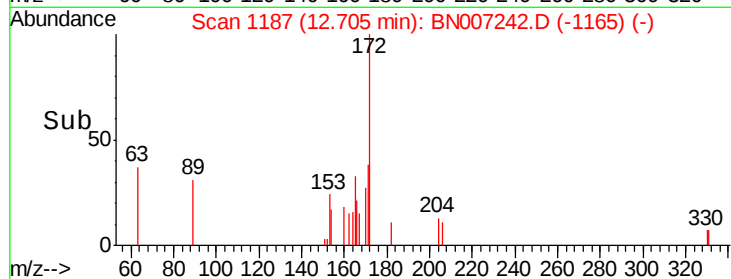
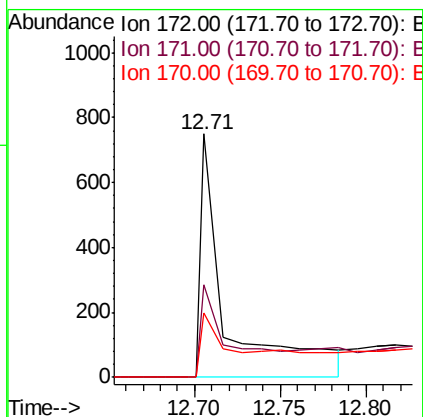
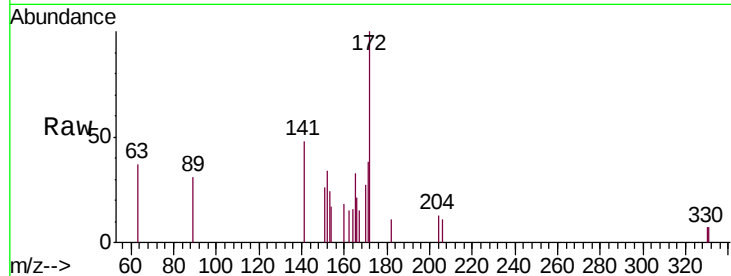




#14
2-Fluorobiphenyl
Concen: 0.031 ng
RT: 12.71 min Scan# 1187
Delta R.T. -0.00 min
Lab File: BN007242.D
Acq: 17 Aug 2019 03:52

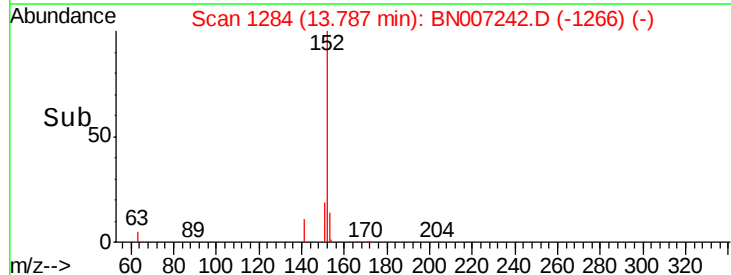
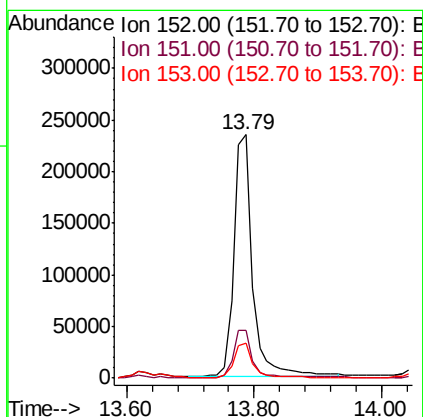
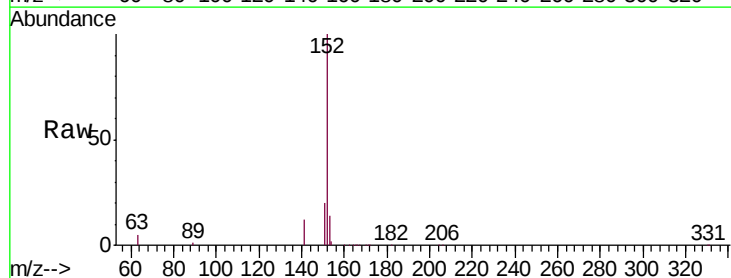
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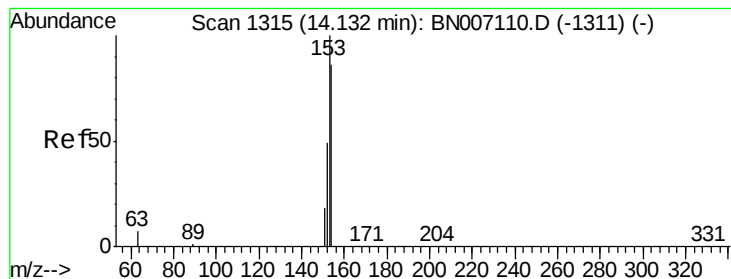
Tgt Ion:172 Resp: 831
Ion Ratio Lower Upper
172 100
171 37.7 26.3 39.5
170 26.5 17.0 25.4#



#15
Acenaphthylene
Concen: 4.930 ng
RT: 13.79 min Scan# 1284
Delta R.T. -0.00 min
Lab File: BN007242.D
Acq: 17 Aug 2019 03:52

Tgt Ion:152 Resp: 481528
Ion Ratio Lower Upper
152 100
151 19.9 15.8 23.6
153 14.1 10.4 15.6





#16

Acenaphthene

Concen: 1.097 ng

RT: 14.13 min Scan# 1315

Delta R.T. -0.01 min

Lab File: BN007242.D

Acq: 17 Aug 2019 03:52

Instrument :

BNA_N

ClientSampleId :

EXT-034-SW091-080519

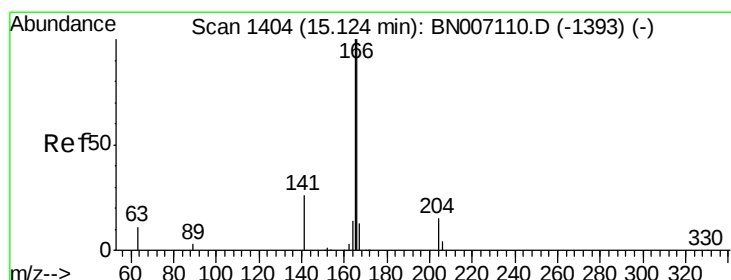
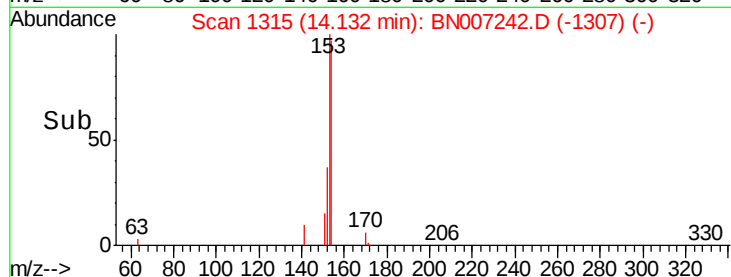
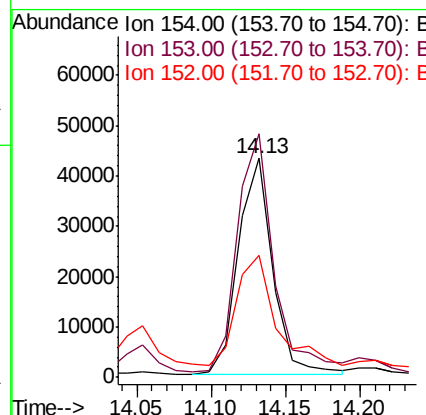
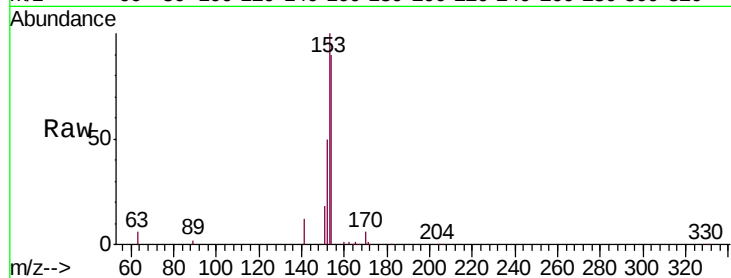
Tgt Ion:154 Resp: 68662

Ion Ratio Lower Upper

154 100

153 117.6 89.5 134.3

152 65.3 44.8 67.2



#17

Fluorene

Concen: 1.693 ng

RT: 15.12 min Scan# 1404

Delta R.T. -0.01 min

Lab File: BN007242.D

Acq: 17 Aug 2019 03:52

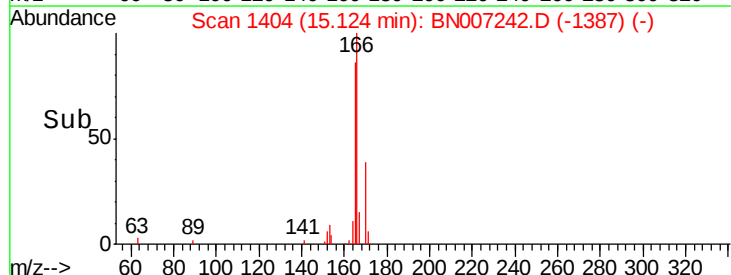
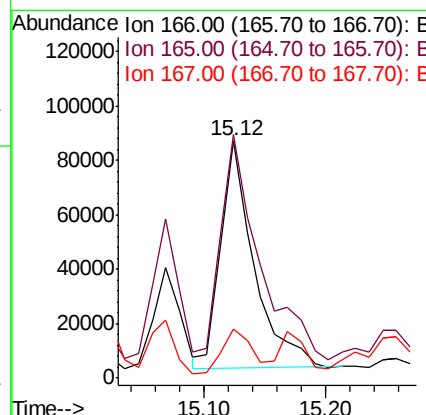
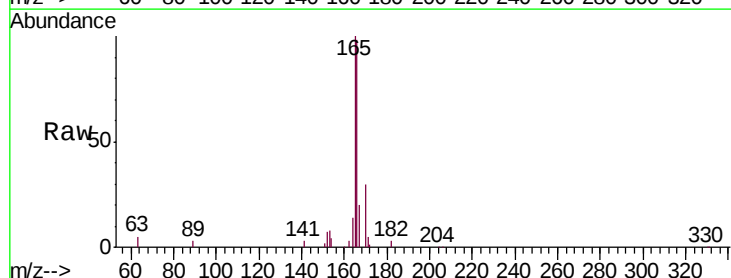
Tgt Ion:166 Resp: 158460

Ion Ratio Lower Upper

166 100

165 115.6 77.9 116.9

167 16.9 10.9 16.3#

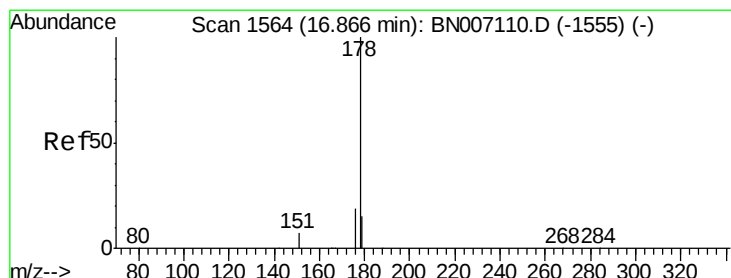
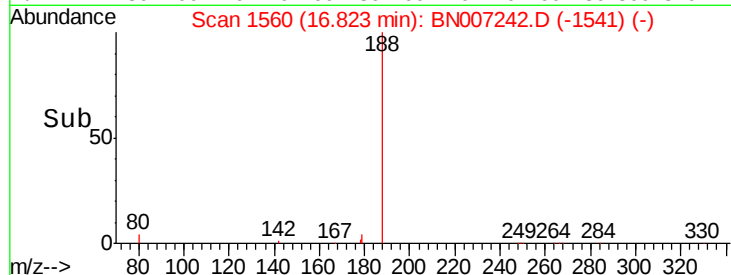
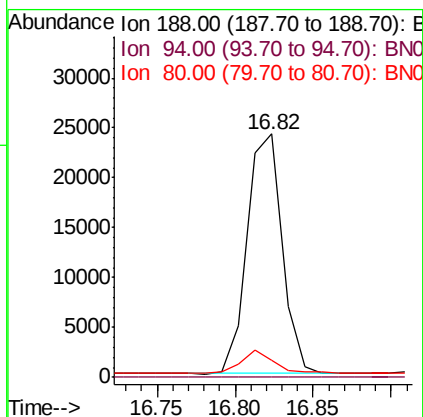
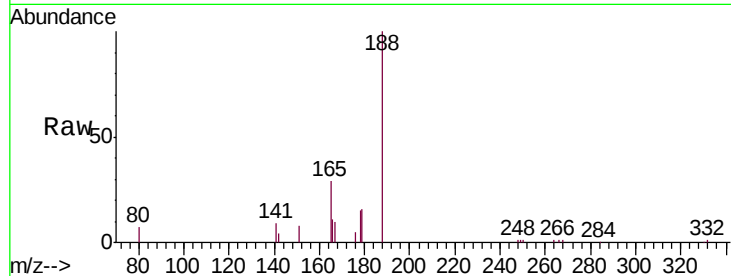




#18
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.82 min Scan# 1560
Delta R.T. -0.00 min
Lab File: BN007242.D
Acq: 17 Aug 2019 03:52

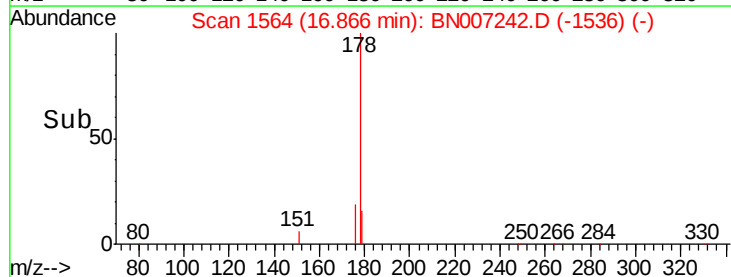
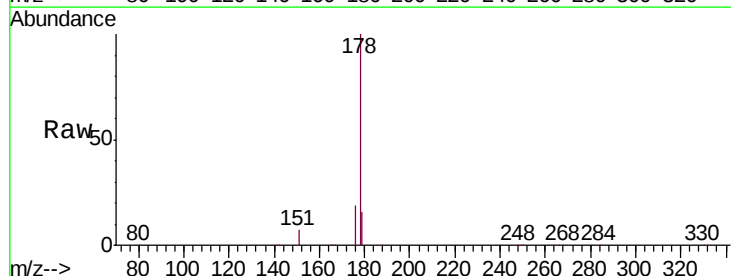
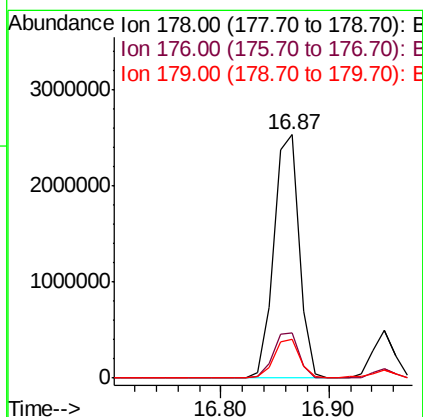
Instrument :
BNA_N
ClientSampleId :
EXT-034-SW091-080519

Tgt Ion:188 Resp: 37373
Ion Ratio Lower Upper
188 100
94 0.0 0.0 0.0
80 6.9 7.8 11.6#



#22
Phenanthrene
Concen: 36.842 ng
RT: 16.87 min Scan# 1564
Delta R.T. -0.00 min
Lab File: BN007242.D
Acq: 17 Aug 2019 03:52

Tgt Ion:178 Resp: 4126438
Ion Ratio Lower Upper
178 100
176 19.0 15.2 22.8
179 16.1 12.3 18.5





#23

Anthracene

Concen: 6.645 ng

RT: 16.95 min Scan# 1572

Delta R.T. -0.01 min

Lab File: BN007242.D

Acq: 17 Aug 2019 03:52

Instrument :

BNA_N

ClientSampleId :

EXT-034-SW091-080519

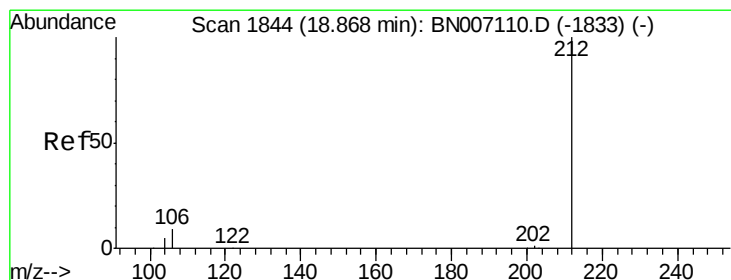
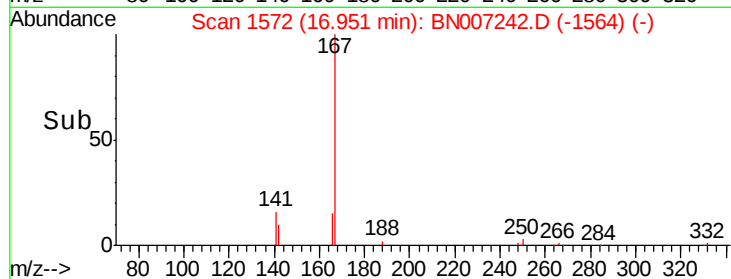
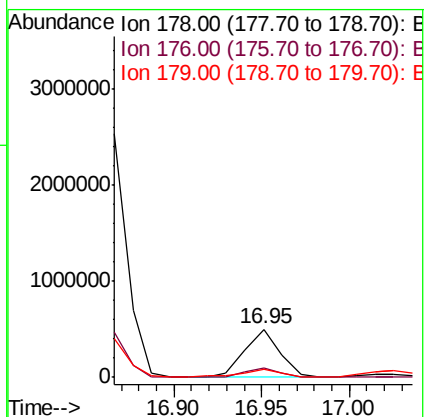
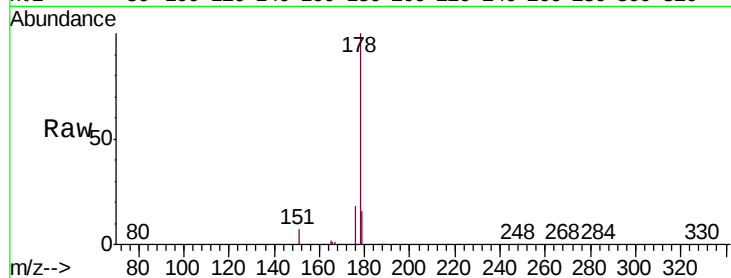
Tgt Ion:178 Resp: 679991

Ion Ratio Lower Upper

178 100

176 18.5 14.6 21.8

179 17.1 12.5 18.7



#24

Fluoranthene-d10

Concen: 0.163 ng

RT: 18.86 min Scan# 1843

Delta R.T. -0.01 min

Lab File: BN007242.D

Acq: 17 Aug 2019 03:52

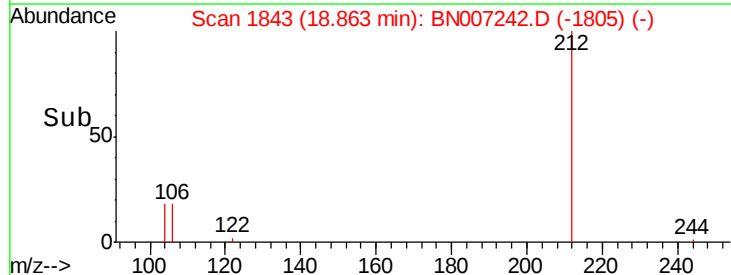
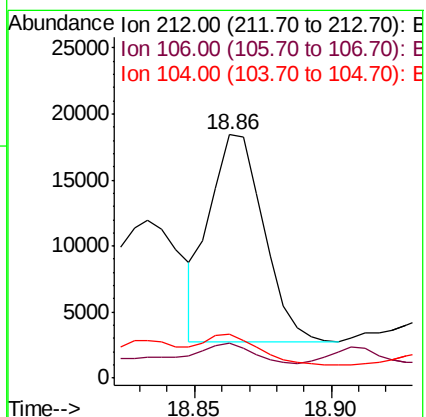
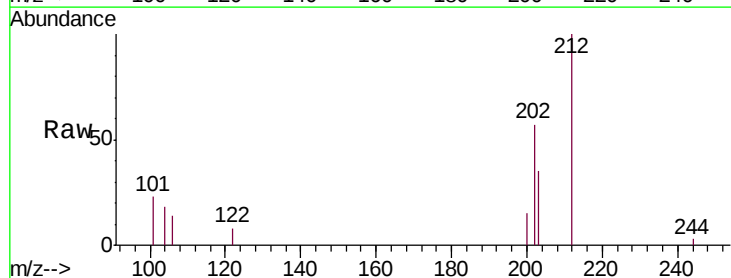
Tgt Ion:212 Resp: 21583

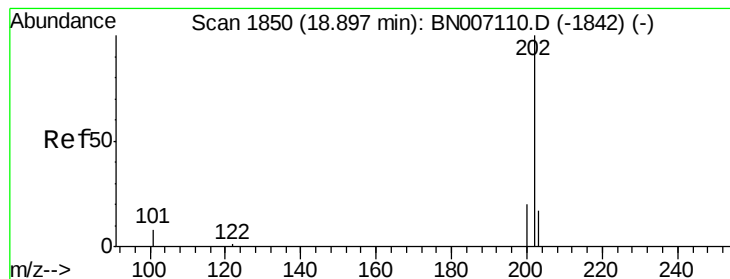
Ion Ratio Lower Upper

212 100

106 15.0 8.2 12.2#

104 14.6 4.5 6.7#





#25

Fluoranthene

Concen: 34.699 ng

RT: 18.90 min Scan# 1850

Delta R.T. -0.01 min

Lab File: BN007242.D

Acq: 17 Aug 2019 03:52

Instrument :

BNA_N

ClientSampleId :

EXT-034-SW091-080519

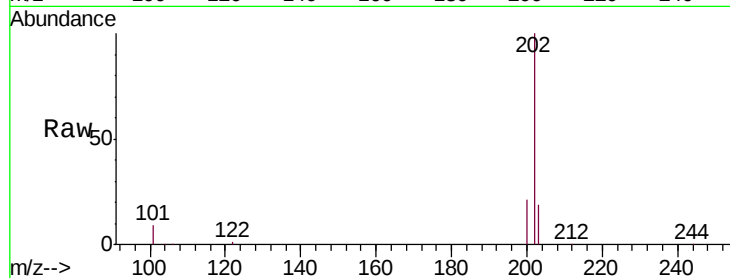
Tgt Ion:202 Resp: 4971526

Ion Ratio Lower Upper

202 100

101 9.2 7.0 10.4

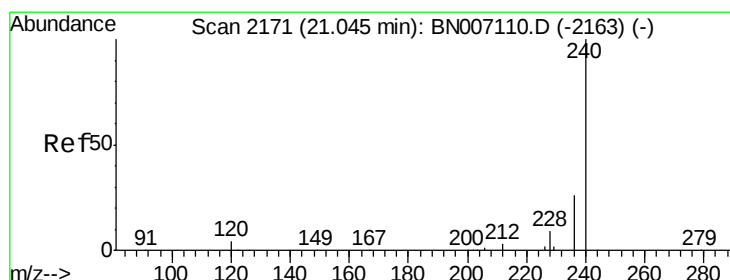
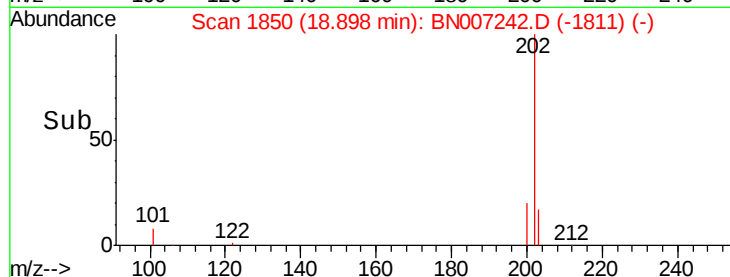
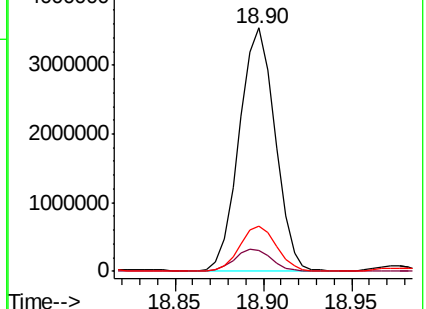
203 18.9 13.8 20.8



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: 21.03 min Scan# 2170

Delta R.T. -0.02 min

Lab File: BN007242.D

Acq: 17 Aug 2019 03:52

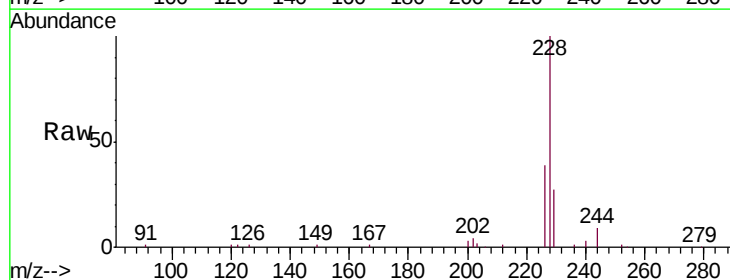
Tgt Ion:240 Resp: 40370

Ion Ratio Lower Upper

240 100

120 23.3 4.0 6.0#

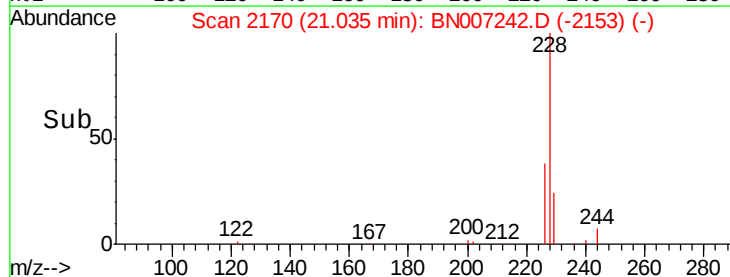
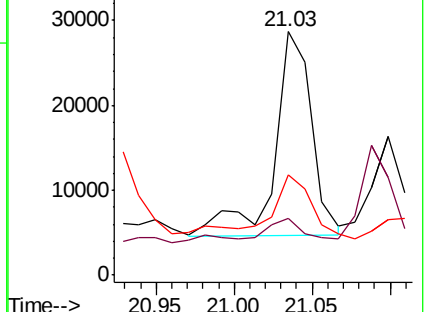
236 41.3 21.3 31.9#

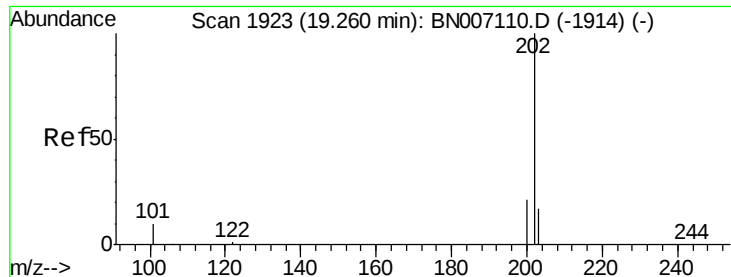


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E



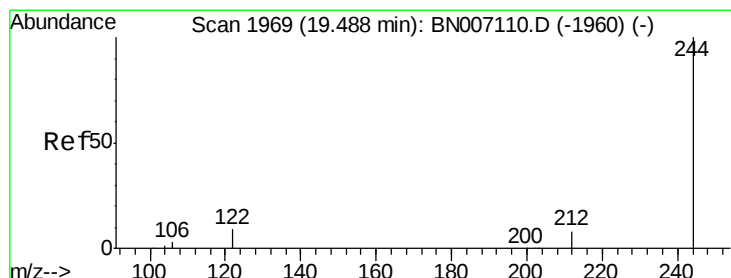
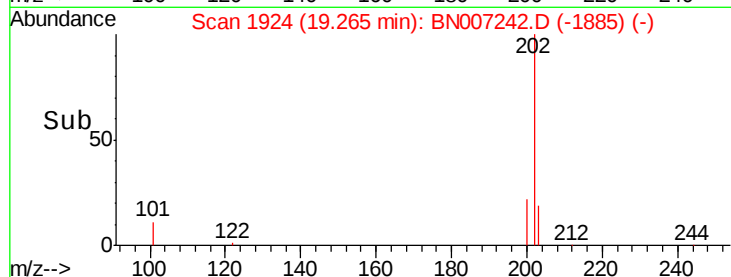
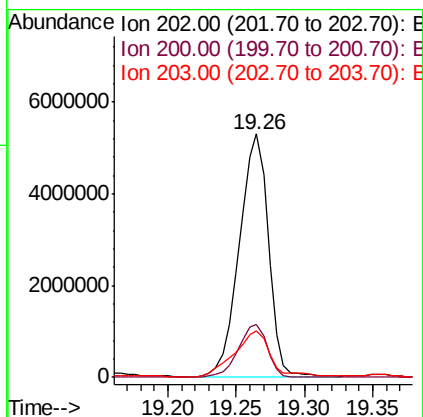
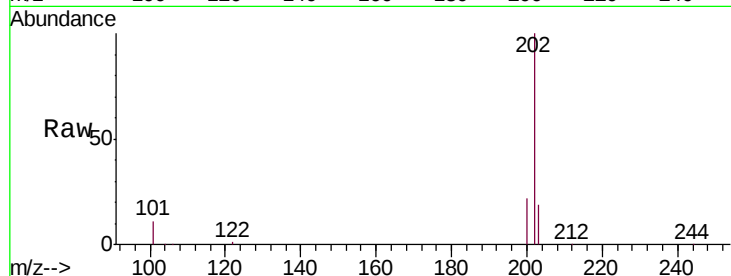


#27
 Pyrene
 Concen: 55.336 ng
 RT: 19.26 min Scan# 1924
 Delta R.T. -0.01 min
 Lab File: BN007242.D
 Acq: 17 Aug 2019 03:52

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

Tgt Ion: 202 Resp: 7834170

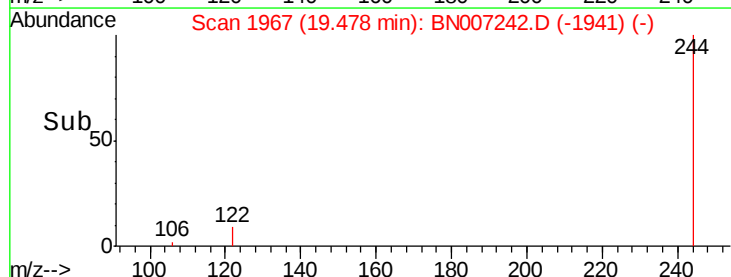
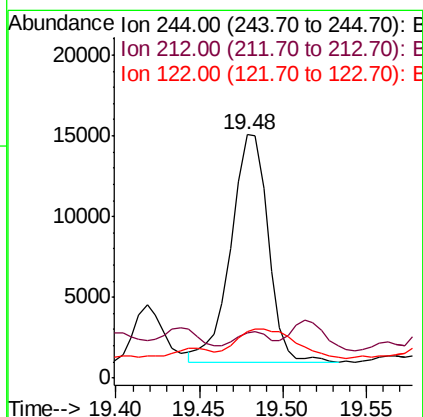
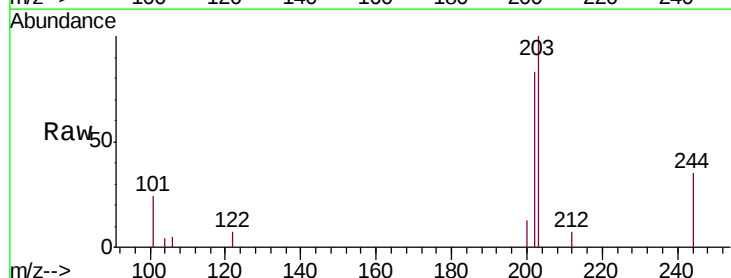
Ion	Ratio	Lower	Upper
202	100		
200	21.7	16.6	24.8
203	23.3	14.0	21.0



#28
 Terphenyl-d14
 Concen: 0.199 ng
 RT: 19.48 min Scan# 1967
 Delta R.T. -0.02 min
 Lab File: BN007242.D
 Acq: 17 Aug 2019 03:52

Tgt Ion: 244 Resp: 21948

Ion	Ratio	Lower	Upper
244	100		
212	18.7	6.2	9.2
122	19.0	7.4	11.2





#29

Benzo(a)anthracene

Concen: 24.832 ng

RT: 21.02 min Scan# 2169

Delta R.T. -0.01 min

Lab File: BN007242.D

Acq: 17 Aug 2019 03:52

Instrument :

BNA_N

ClientSampleId :

EXT-034-SW091-080519

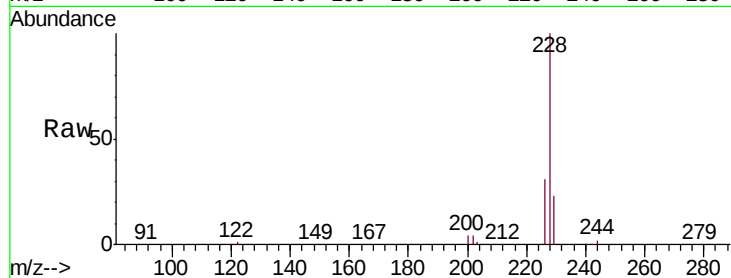
Tgt Ion:228 Resp: 3666074

Ion Ratio Lower Upper

228 100

226 31.3 21.8 32.6

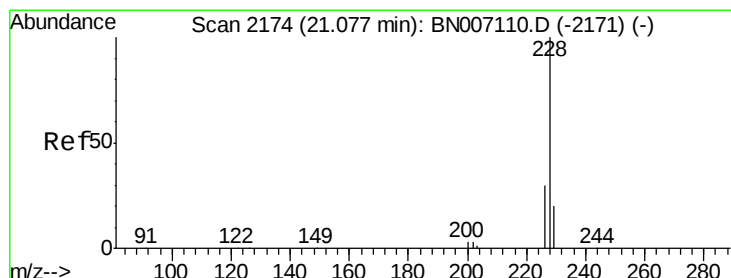
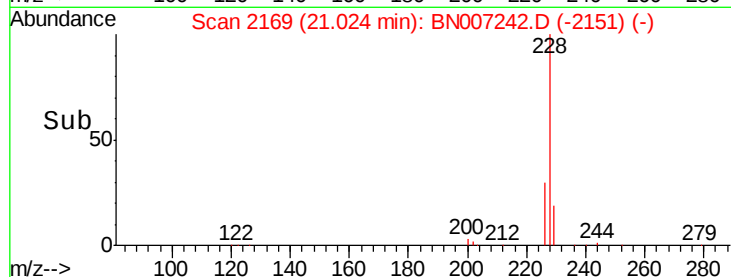
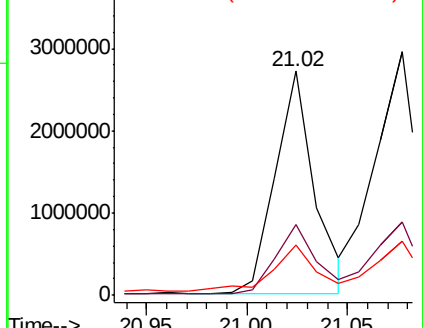
229 22.7 15.6 23.4



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: 30.016 ng

RT: 21.08 min Scan# 2174

Delta R.T. -0.01 min

Lab File: BN007242.D

Acq: 17 Aug 2019 03:52

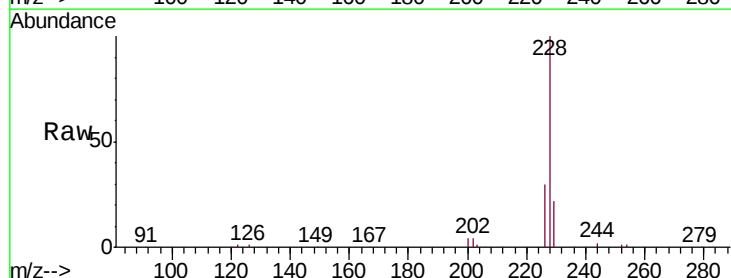
Tgt Ion:228 Resp: 4305415

Ion Ratio Lower Upper

228 100

226 30.2 23.8 35.6

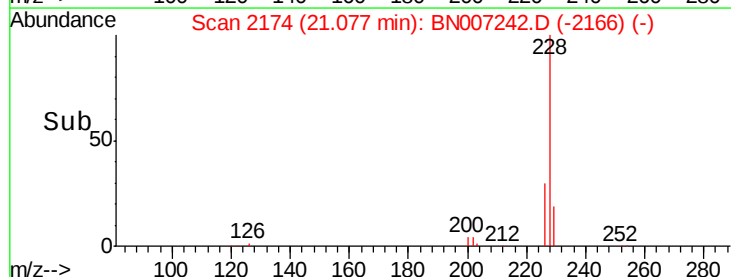
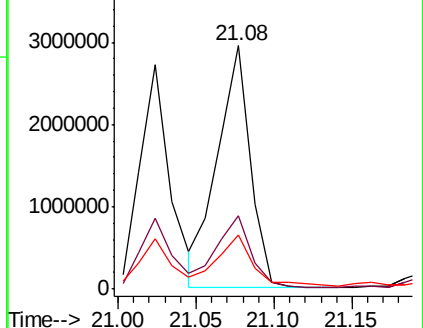
229 22.2 15.7 23.5



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: 11.553 ng

RT: 25.24 min Scan# 3127

Delta R.T. -0.01 min

Lab File: BN007242.D

Acq: 17 Aug 2019 03:52

Instrument :

BNA_N

ClientSampleId :

EXT-034-SW091-080519

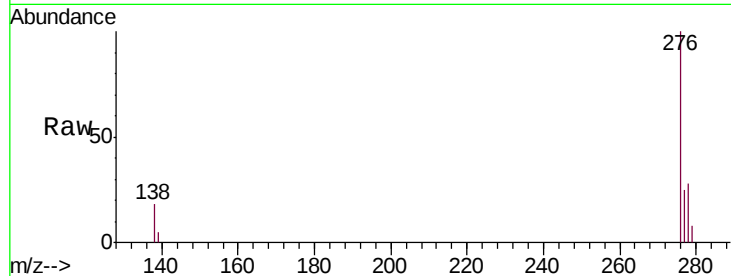
Tgt Ion:276 Resp: 1826365

Ion Ratio Lower Upper

276 100

138 18.1 16.0 24.0

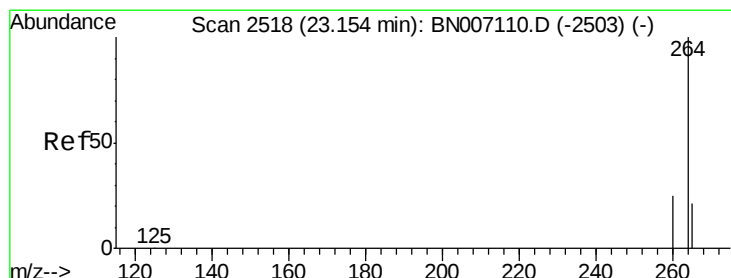
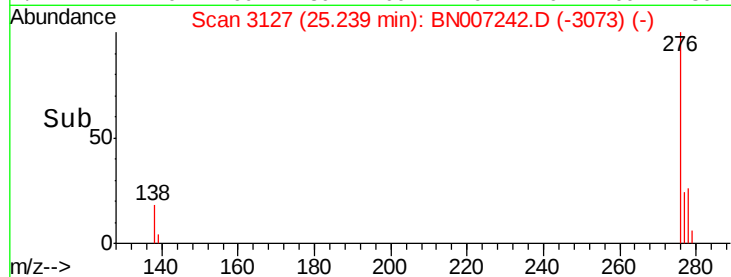
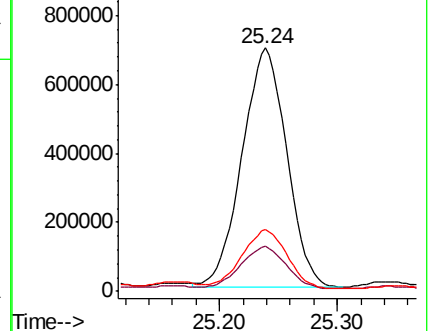
277 25.1 19.9 29.9



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: BN007242.D

Acq: 17 Aug 2019 03:52

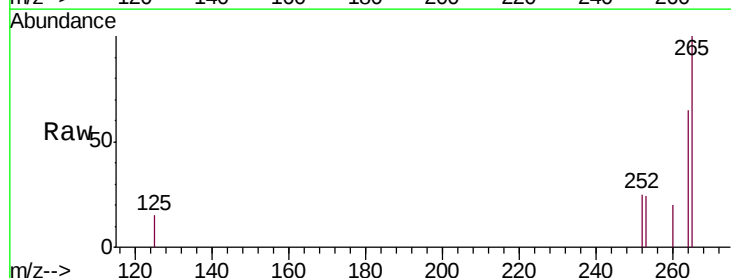
Tgt Ion:264 Resp: 56279

Ion Ratio Lower Upper

264 100

260 31.2 19.8 29.8#

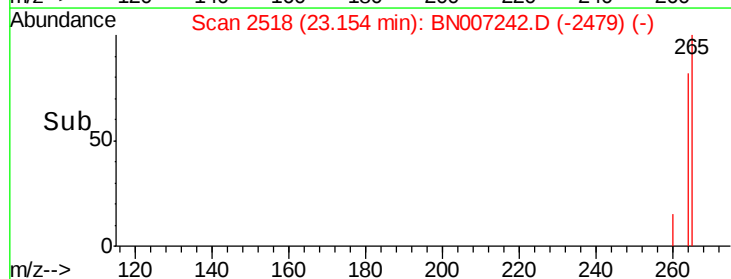
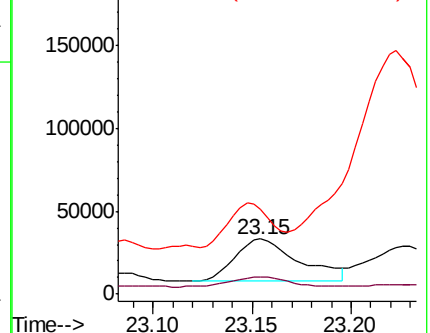
265 153.4 26.2 39.4#



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: 24.344 ng

RT: 22.54 min Scan# 2338

Delta R.T. -0.01 min

Lab File: BN007242.D

Acq: 17 Aug 2019 03:52

Instrument :

BNA_N

ClientSampleId :

EXT-034-SW091-080519

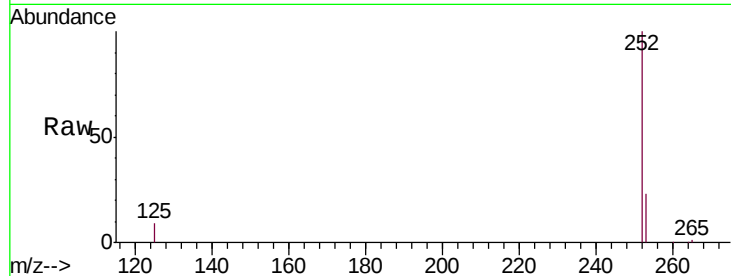
Tgt Ion:252 Resp: 4698120

Ion Ratio Lower Upper

252 100

253 23.2 18.2 27.2

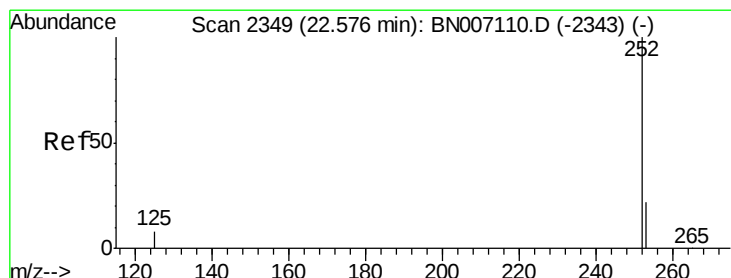
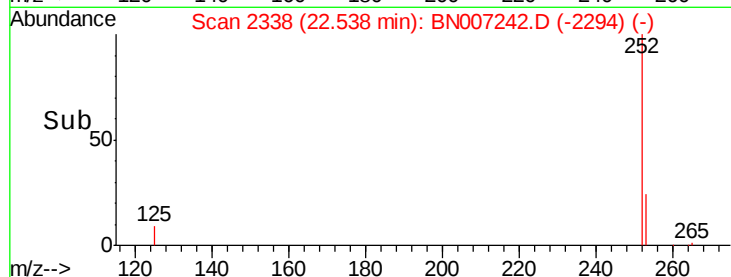
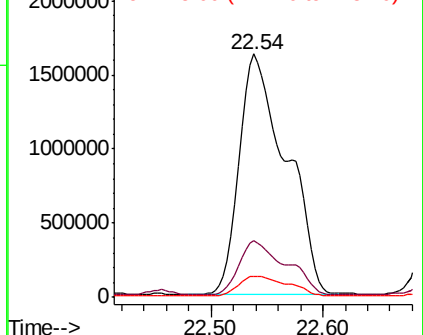
125 8.8 7.4 11.0



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: 24.650 ng

RT: 22.54 min Scan# 2338

Delta R.T. -0.05 min

Lab File: BN007242.D

Acq: 17 Aug 2019 03:52

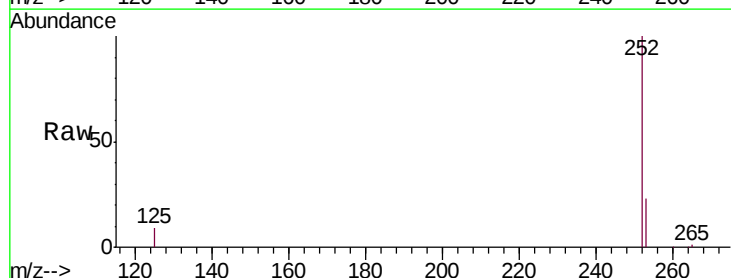
Tgt Ion:252 Resp: 4698120

Ion Ratio Lower Upper

252 100

253 23.2 18.1 27.1

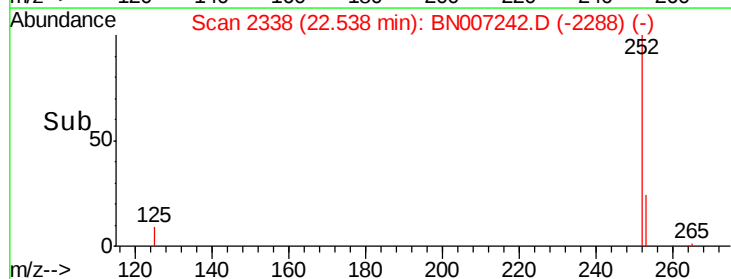
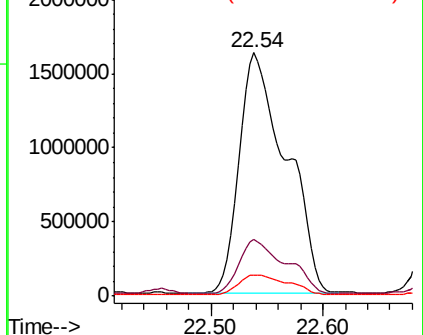
125 8.8 7.4 11.0



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: 17.751 ng

RT: 23.07 min Scan# 2493

Delta R.T. -0.01 min

Lab File: BN007242.D

Acq: 17 Aug 2019 03:52

Instrument :

BNA_N

ClientSampleId :

EXT-034-SW091-080519

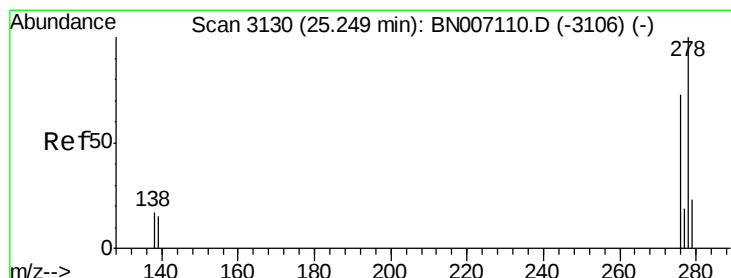
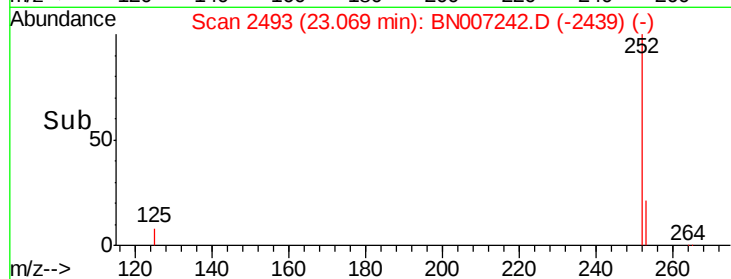
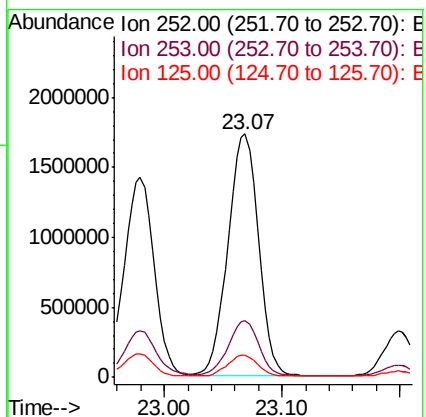
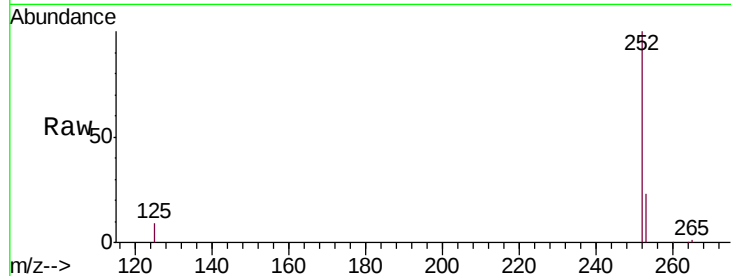
Tgt Ion:252 Resp: 3105619

Ion Ratio Lower Upper

252 100

253 23.2 18.5 27.7

125 8.9 8.2 12.4



#36

Dibenzo(a,h)anthracene

Concen: 3.348 ng

RT: 25.25 min Scan# 3129

Delta R.T. -0.03 min

Lab File: BN007242.D

Acq: 17 Aug 2019 03:52

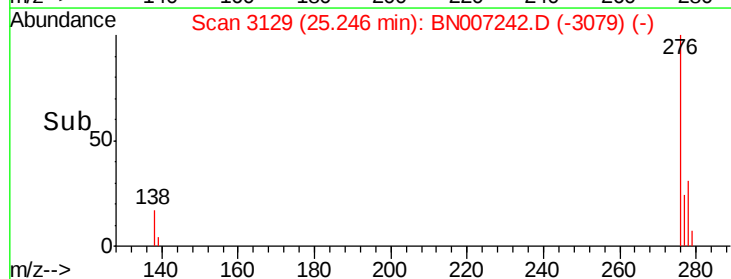
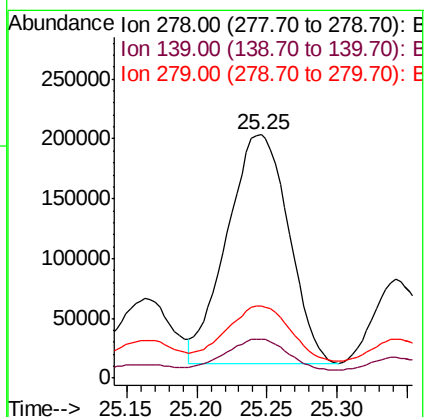
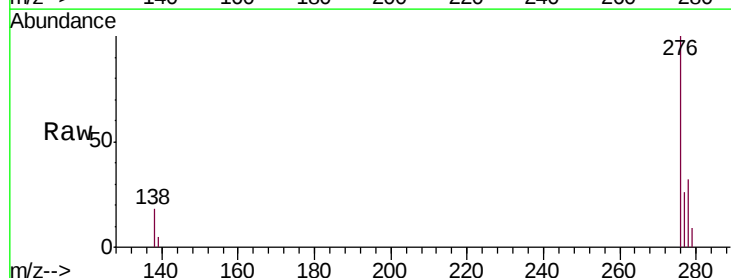
Tgt Ion:278 Resp: 584409

Ion Ratio Lower Upper

278 100

139 15.9 11.3 16.9

279 29.6 19.3 28.9#





#37

Benzo(g,h,i)perylene

Concen: 12.154 ng

RT: 25.87 min Scan# 3312

Delta R.T. -0.01 min

Lab File: BN007242.D

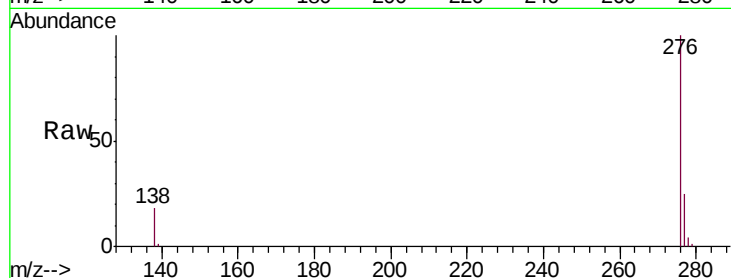
Acq: 17 Aug 2019 03:52

Instrument :

BNA_N

ClientSampleId :

EXT-034-SW091-080519



Tgt Ion: 276 Resp: 2182376

Ion Ratio Lower Upper

276 100

277 24.9 19.8 29.8

138 18.0 14.6 22.0

