

Data File : BN007227.D
Acq On : 16 Aug 2019 17:36
Operator : HP/JU
Sample : K4239-17
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
EXT-034-SW092-080519

Quant Time: Aug 17 00:59:11 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	7273	0.40	ng	-0.02
6) Naphthalene-d8	10.17	136	27641	0.40	ng	-0.01
12) Acenaphthene-d10	14.07	164	18482	0.40	ng	-0.01
18) Phenanthrene-d10	16.81	188	36018	0.40	ng	-0.01
26) Chrysene-d12	21.05	240	39475	0.40	ng	-0.01
32) Perylene-d12	23.15	264	50930	0.40	ng	-0.02

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
3) 2-Fluorophenol	5.05	112	5892	0.34	ng	0.00
4) Phenol-d6	6.61	99	7626	0.35	ng	0.00
7) Nitrobenzene-d5	8.55	82	6736	0.30	ng	-0.01
10) 2-Methylnaphthalene-d10	11.78	152	12018	0.23	ng	-0.02
13) 2,4,6-Tribromophenol	15.57	330	2041	0.21	ng	0.00
14) 2-Fluorobiphenyl	12.71	172	754	0.03	ng	0.00
24) Fluoranthene-d10	18.86	212	29751	0.23	ng	0.00
28) Terphenyl-d14	19.48	244	24360	0.23	ng	-0.01

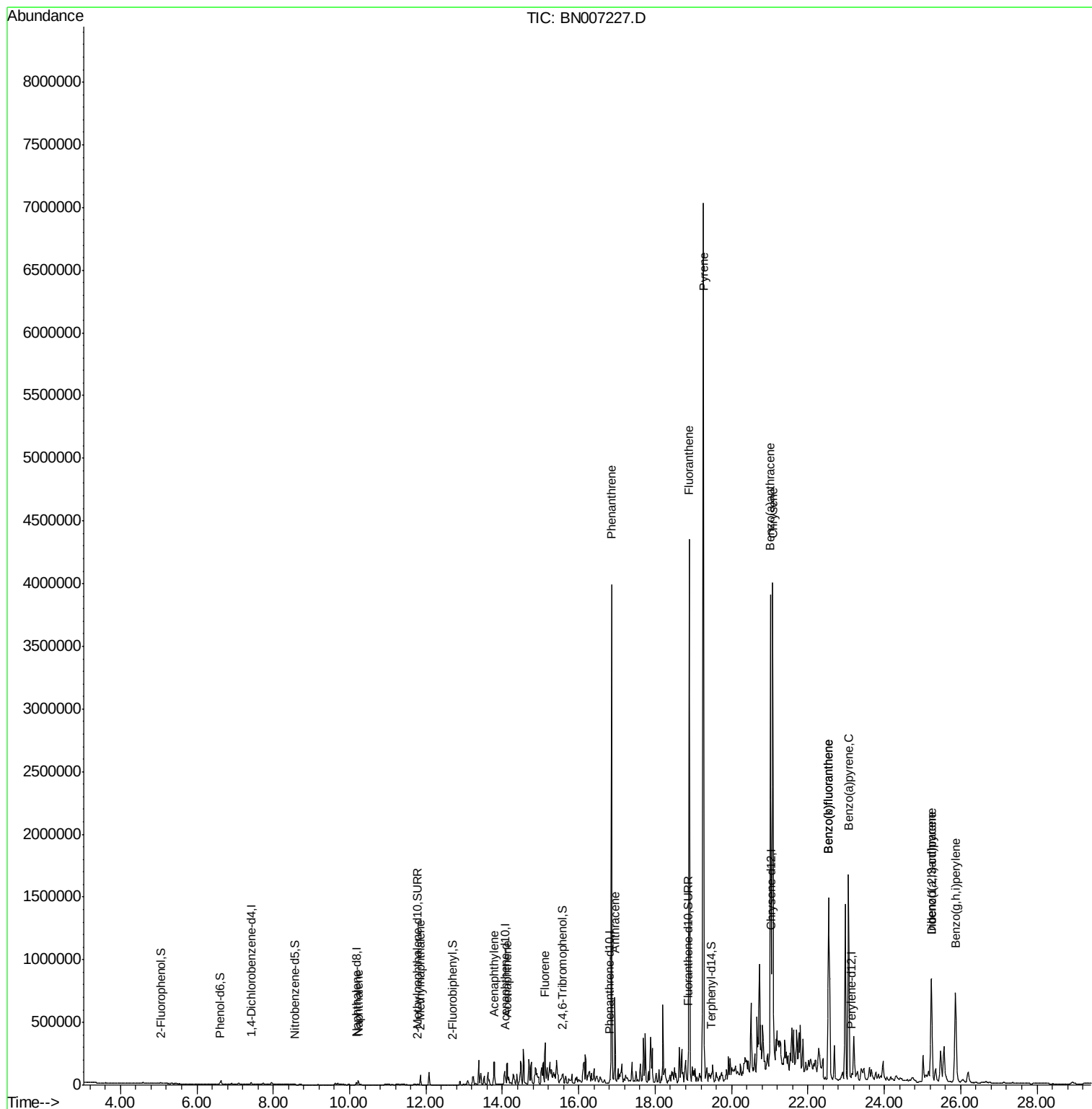
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
8) Naphthalene	10.23	128	42622	0.550	ng	99
11) 2-Methylnaphthalene	11.85	142	57576	1.048	ng	97
15) Acenaphthylene	13.78	152	212811	2.203	ng	# 95
16) Acenaphthene	14.13	154	92340	1.492	ng	93
17) Fluorene	15.12	166	175978	1.901	ng	# 84
22) Phenanthrene	16.86	178	4368001	40.466	ng	99
23) Anthracene	16.95	178	676695	6.861	ng	98
25) Fluoranthene	18.89	202	4160070	30.128	ng	97
27) Pyrene	19.26	202	7102221	51.304	ng	# 93
29) Benzo(a)anthracene	21.02	228	3194018	22.125	ng	95
30) Chrysene	21.08	228	3462253	24.685	ng	98
31) Indeno(1,2,3-cd)pyrene	25.23	276	1180801	7.638	ng	98
33) Benzo(b)fluoranthene	22.54	252	3269439	18.721	ng	99
34) Benzo(k)fluoranthene	22.54	252	3268666	18.951	ng	99
35) Benzo(a)pyrene	23.07	252	2275007	14.369	ng	98
36) Dibenzo(a,h)anthracene	25.24	278	407006	2.576	ng	93
37) Benzo(g,h,i)perylene	25.87	276	1466473	9.025	ng	100

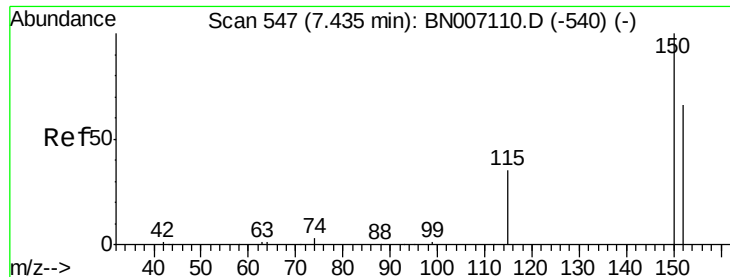
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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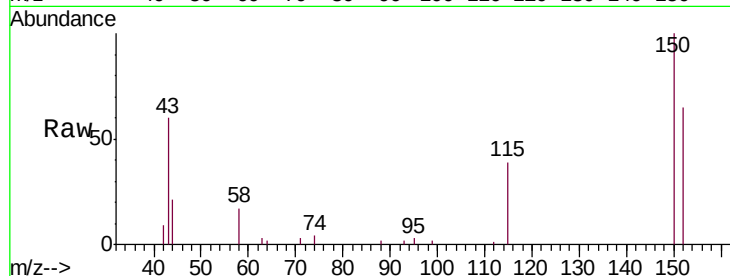


#1

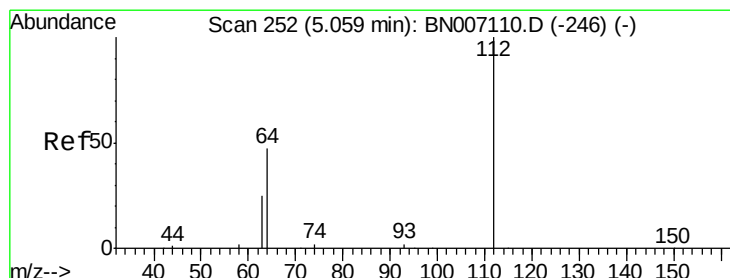
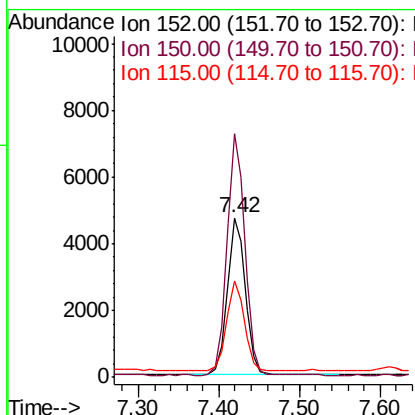
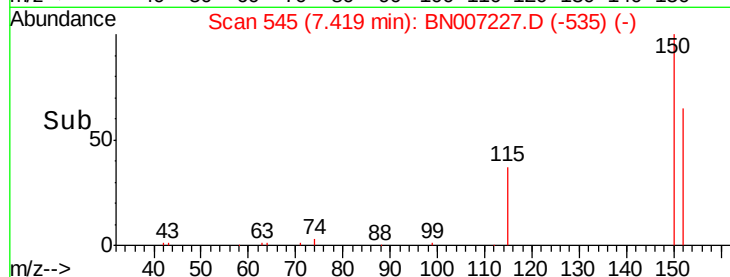
1,4-Dichlorobenzene-d4
 Concen: 0.400 ng
 RT: 7.42 min Scan# 545
 Delta R.T. -0.02 min
 Lab File: BN007227.D
 Acq: 16 Aug 2019 17:36

Instrument :
 BNA_N
 ClientSampleId :
 EXT-034-SW092-080519

Tgt Ion:152 Resp: 7273
 Ion Ratio Lower Upper
 152 100
 150 152.8 121.7 182.5
 115 60.3 46.2 69.4



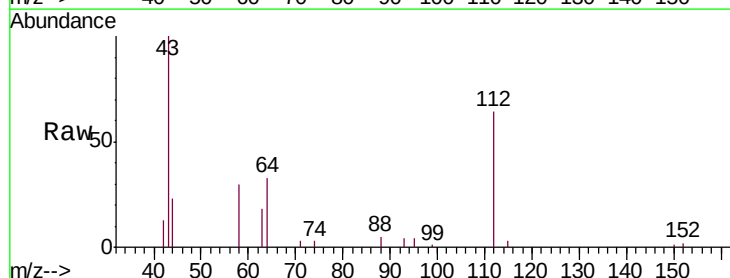
Abundance Ion 152.00 (151.70 to 152.70): E
 Ion 150.00 (149.70 to 150.70): E
 Ion 115.00 (114.70 to 115.70): E



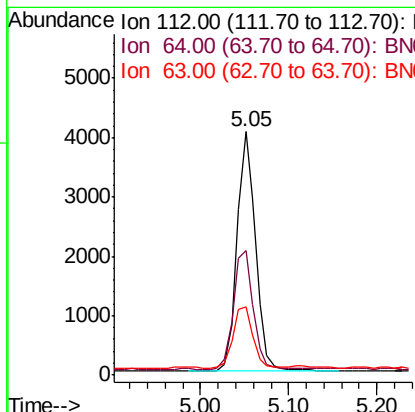
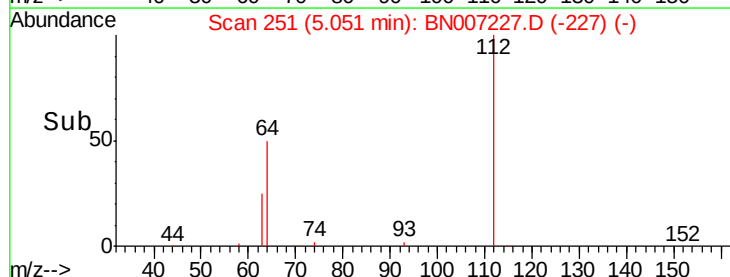
#3

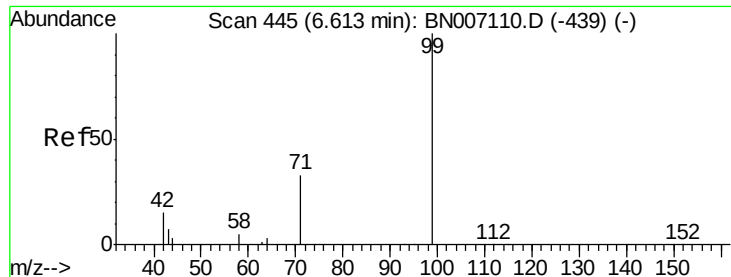
2-Fluorophenol
 Concen: 0.337 ng
 RT: 5.05 min Scan# 251
 Delta R.T. -0.01 min
 Lab File: BN007227.D
 Acq: 16 Aug 2019 17:36

Tgt Ion:112 Resp: 5892
 Ion Ratio Lower Upper
 112 100
 64 53.4 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: 0.352 ng

RT: 6.61 min Scan# 444

Delta R.T. -0.01 min

Lab File: BN007227.D

Acq: 16 Aug 2019 17:36

Instrument :

BNA_N

ClientSampleId :

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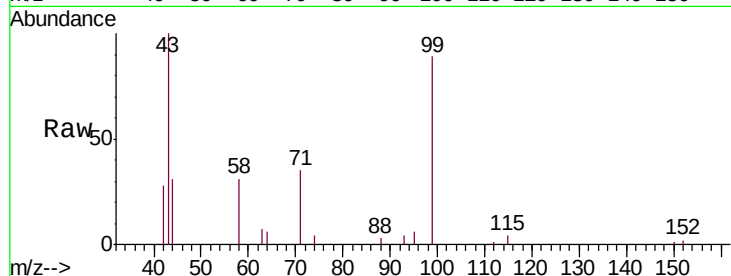
Tgt Ion: 99 Resp: 7626

Ion Ratio Lower Upper

99 100

42 0.0 15.8 23.6#

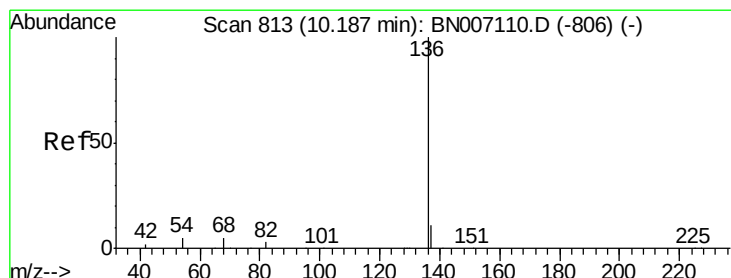
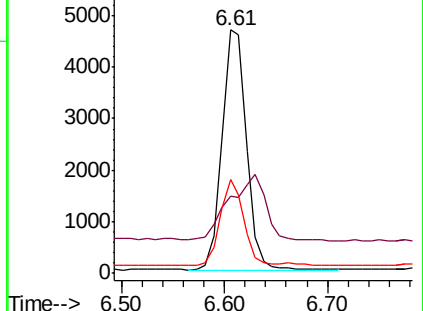
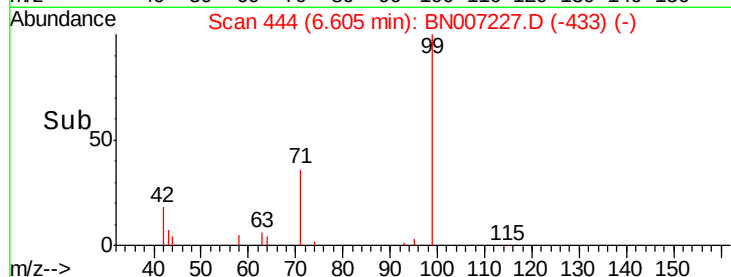
71 34.3 27.0 40.4



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: BN007227.D

Acq: 16 Aug 2019 17:36

Tgt Ion: 136 Resp: 27641

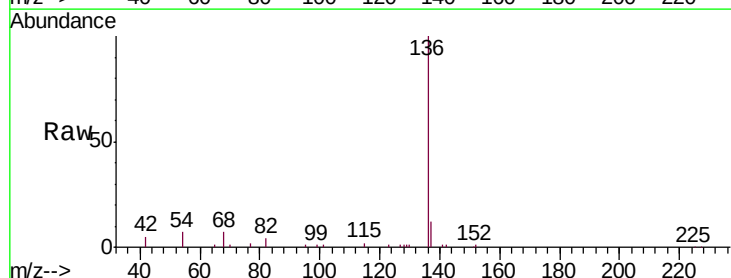
Ion Ratio Lower Upper

136 100

137 11.5 9.4 14.0

54 6.7 6.6 9.8

68 6.5 6.0 9.0

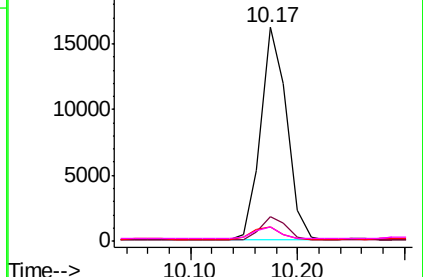
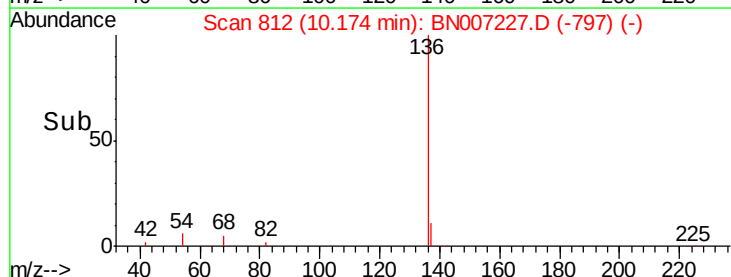


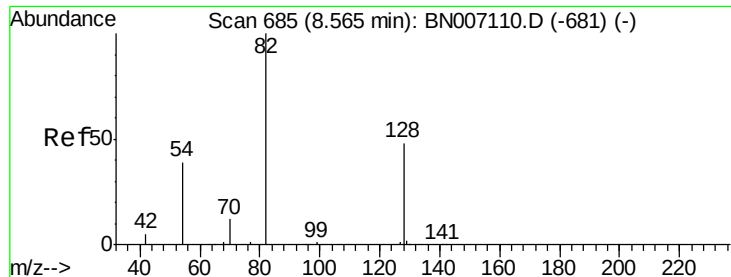
Abundance Ion 136.00 (135.70 to 136.70): BN007110.D (-806) (-)

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: 0.302 ng

RT: 8.55 min Scan# 684

Delta R.T. -0.01 min

Lab File: BN007227.D

Acq: 16 Aug 2019 17:36

Instrument :

BNA_N

ClientSampleId :

EXT-034-SW092-080519

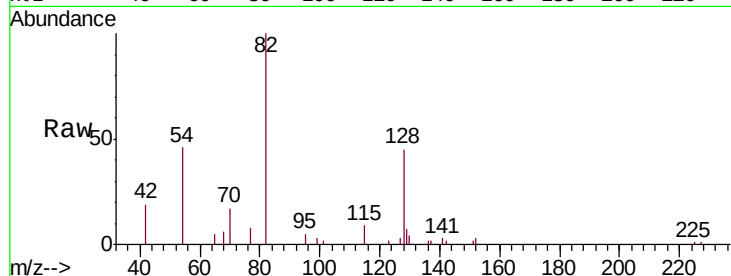
Tgt Ion: 82 Resp: 6736

Ion Ratio Lower Upper

82 100

128 45.0 34.6 51.8

54 45.6 36.2 54.4

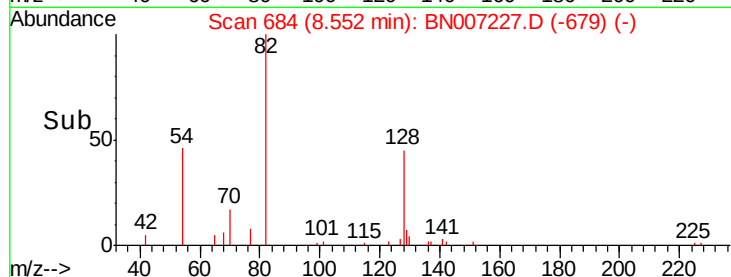


Abundance Ion 82.00 (81.70 to 82.70): BN007110.D (-681) (-)

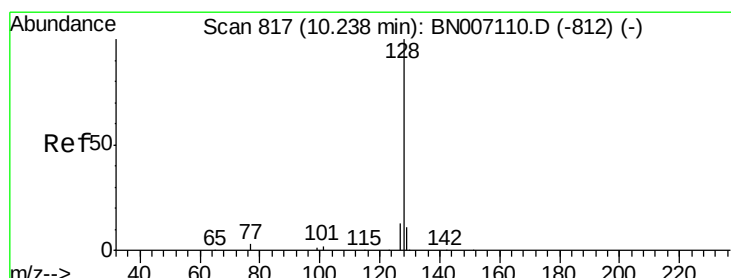
Ion 128.00 (127.70 to 128.70): BN007110.D (-681) (-)

Ion 54.00 (53.70 to 54.70): BN007110.D (-681) (-)

Time-->



Time-->



#8

Naphthalene

Concen: 0.550 ng

RT: 10.23 min Scan# 816

Delta R.T. -0.01 min

Lab File: BN007227.D

Acq: 16 Aug 2019 17:36

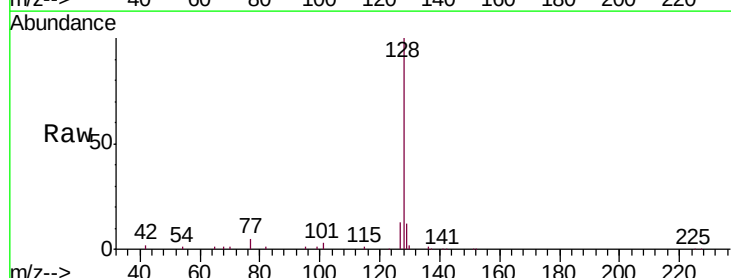
Tgt Ion: 128 Resp: 42622

Ion Ratio Lower Upper

128 100

129 11.6 9.4 14.2

127 13.3 11.0 16.6

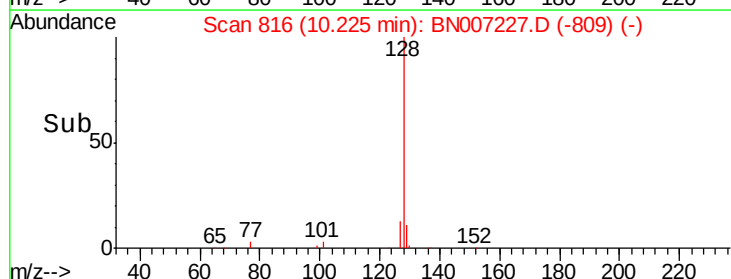


Abundance Ion 128.00 (127.70 to 128.70): BN007110.D (-812) (-)

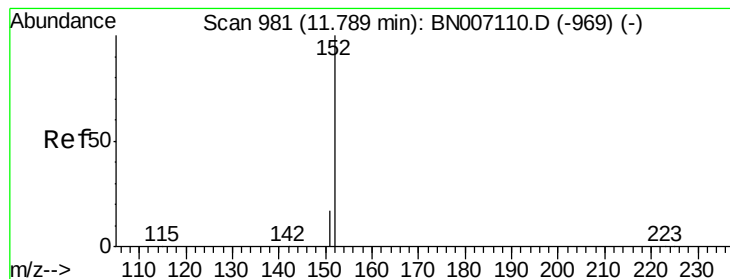
Ion 129.00 (128.70 to 129.70): BN007110.D (-812) (-)

Ion 127.00 (126.70 to 127.70): BN007110.D (-812) (-)

Time-->



Time-->



#10

2-Methylnaphthalene-d10

Concen: 0.233 ng

RT: 11.78 min Scan# 978

Delta R.T. -0.02 min

Lab File: BN007227.D

Acq: 16 Aug 2019 17:36

Instrument :

BNA_N

ClientSampleId :

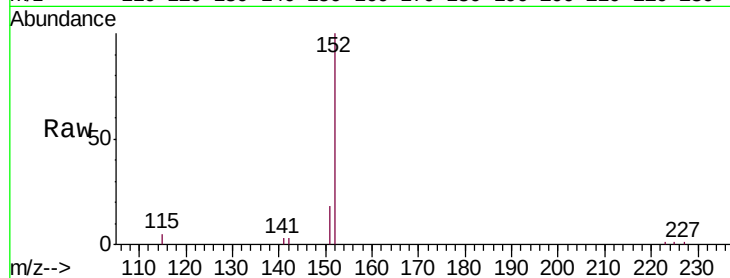
EXT-034-SW092-080519

Tgt Ion:152 Resp: 12018

Ion Ratio Lower Upper

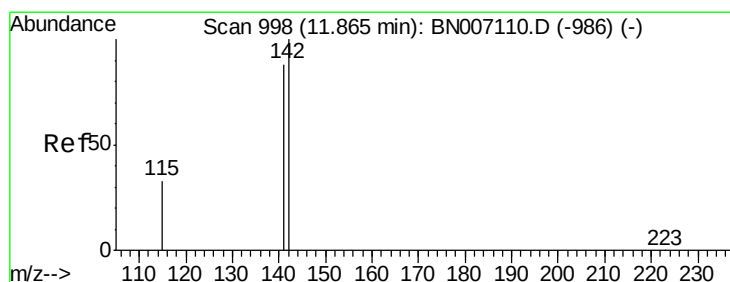
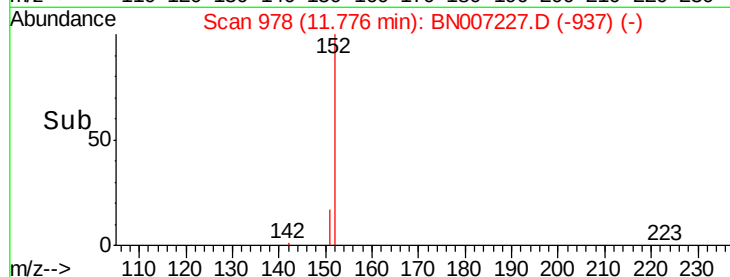
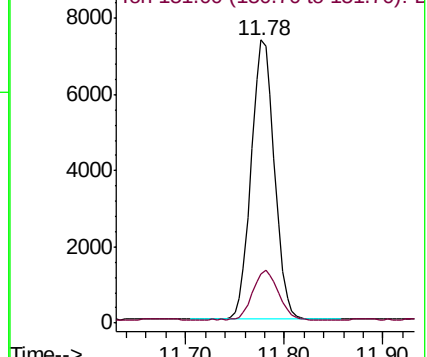
152 100

151 19.3 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: 1.048 ng

RT: 11.85 min Scan# 995

Delta R.T. -0.02 min

Lab File: BN007227.D

Acq: 16 Aug 2019 17:36

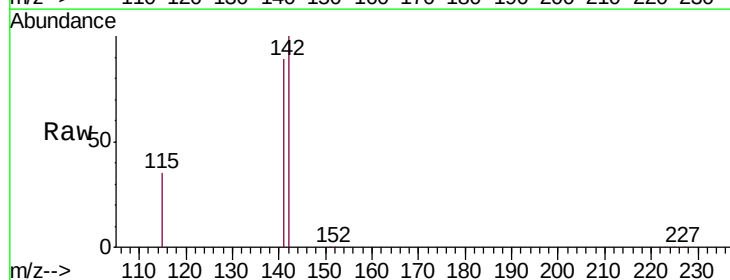
Tgt Ion:142 Resp: 57576

Ion Ratio Lower Upper

142 100

141 88.9 69.0 103.6

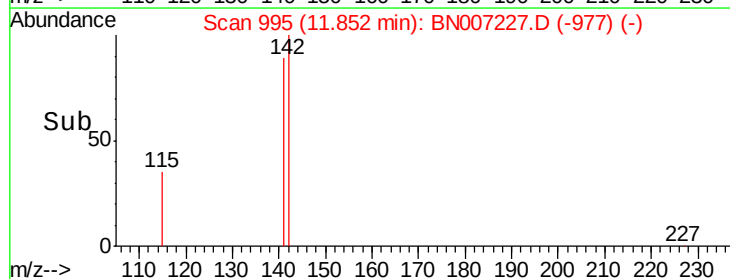
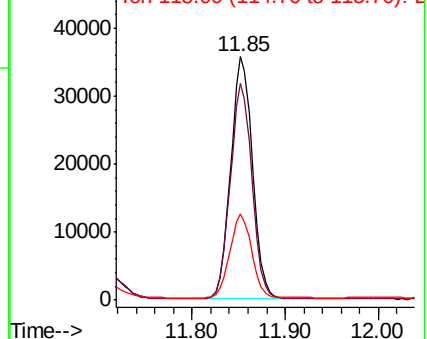
115 35.3 27.1 40.7

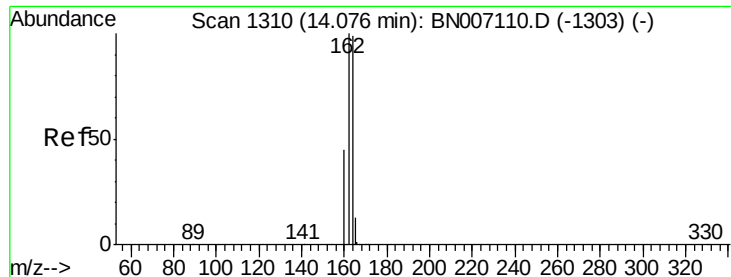


Abundance Ion 142.00 (141.70 to 142.70): E

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: BN007227.D

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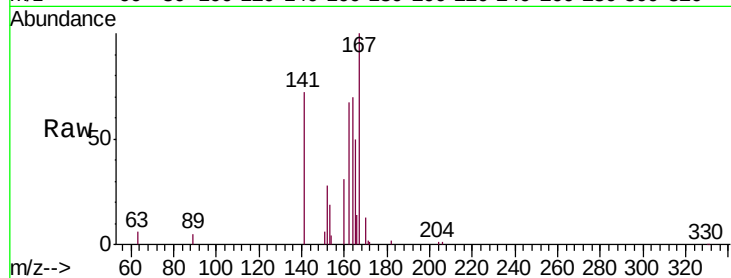
Tgt Ion:164 Resp: 18482

Ion Ratio Lower Upper

164 100

162 95.6 82.2 123.4

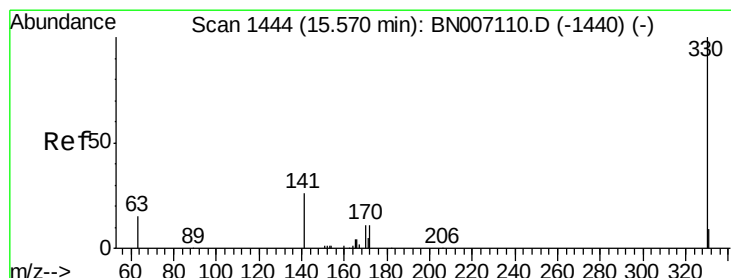
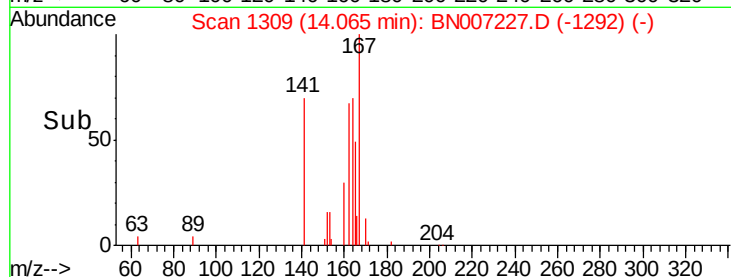
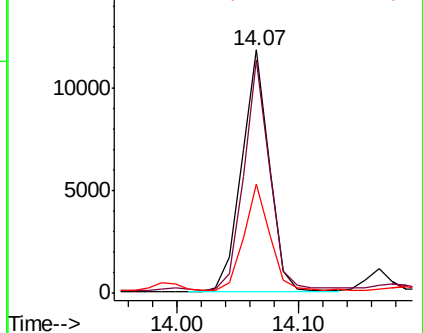
160 44.7 38.3 57.5



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: 0.205 ng

RT: 15.57 min Scan# 1444

Delta R.T. -0.00 min

Lab File: BN007227.D

Acq: 16 Aug 2019 17:36

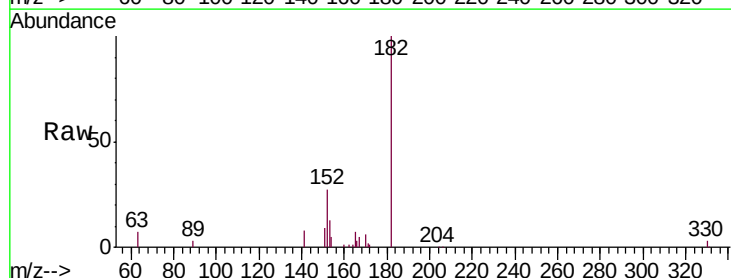
Tgt Ion:330 Resp: 2041

Ion Ratio Lower Upper

330 100

332 0.0 0.0 0.0

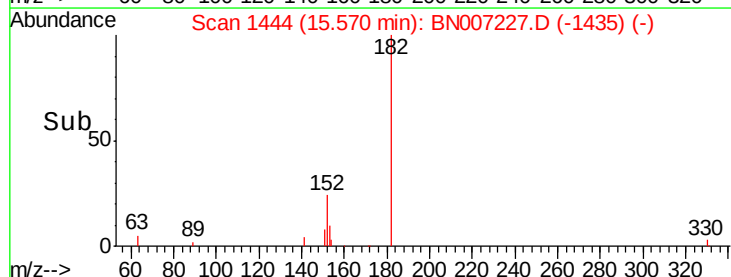
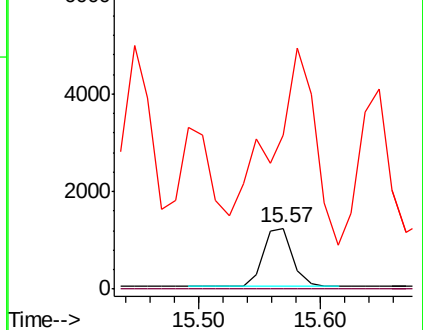
141 504.7 33.6 50.4#

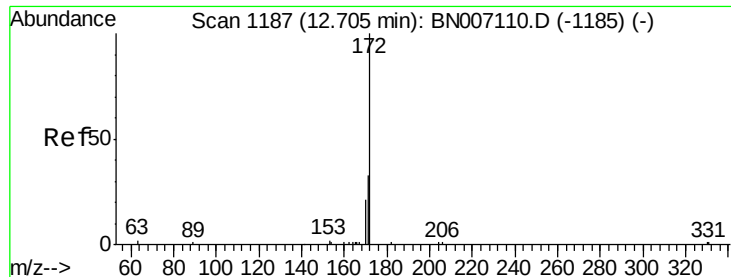


Abundance Ion 330.00 (329.70 to 330.70): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E





#14

2-Fluorobiphenyl

Concen: 0.028 ng

RT: 12.71 min Scan# 1187

Delta R.T. -0.00 min

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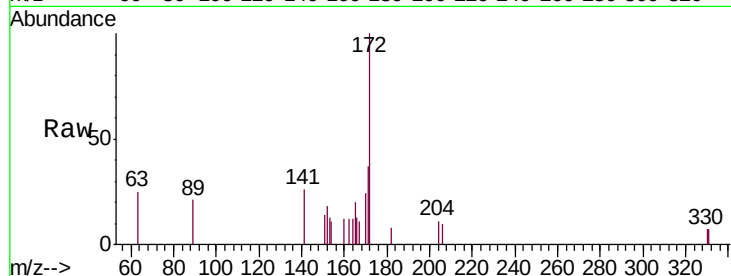
Tgt Ion:172 Resp: 754

Ion Ratio Lower Upper

172 100

171 36.7 26.3 39.5

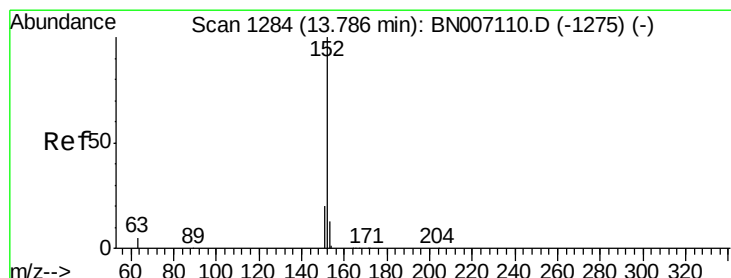
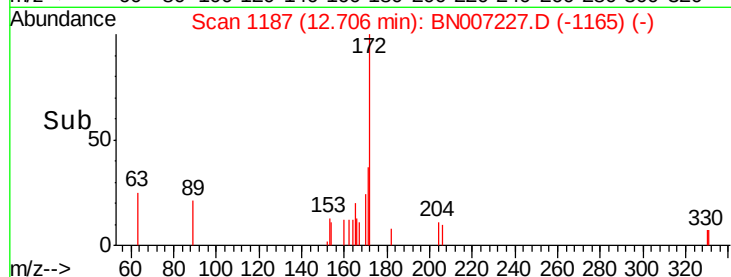
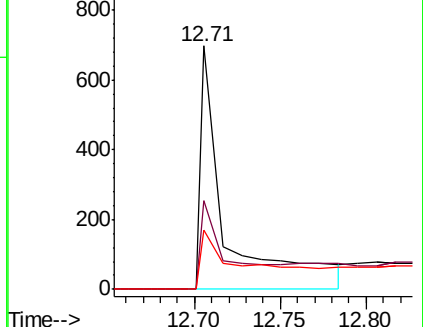
170 24.4 17.0 25.4



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: 2.203 ng

RT: 13.78 min Scan# 1283

Delta R.T. -0.01 min

Lab File: BN007227.D

Acq: 16 Aug 2019 17:36

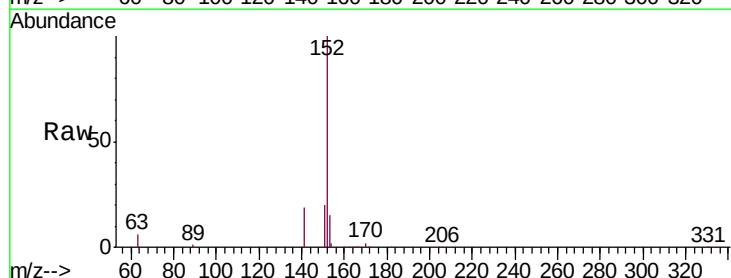
Tgt Ion:152 Resp: 212811

Ion Ratio Lower Upper

152 100

151 20.1 15.8 23.6

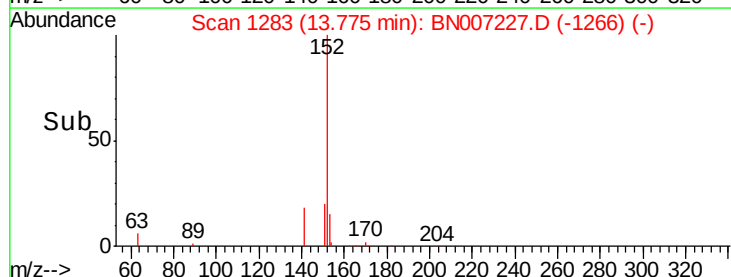
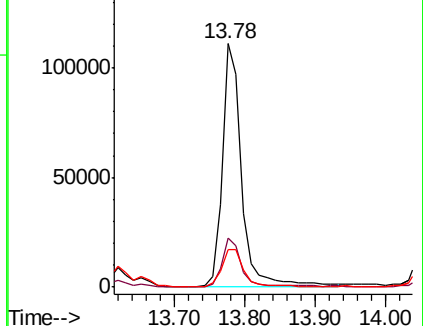
153 17.4 10.4 15.6#

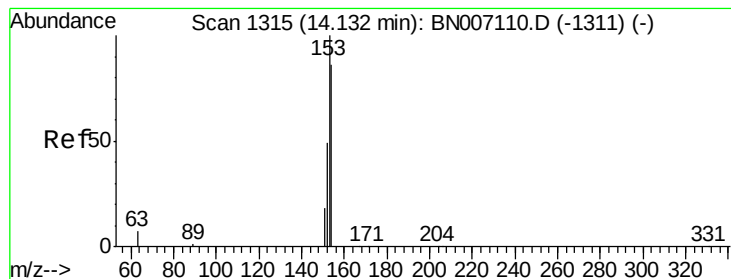


Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

Ion 153.00 (152.70 to 153.70): E





#16

Acenaphthene

Concen: 1.492 ng

RT: 14.13 min Scan# 1315

Delta R.T. -0.01 min

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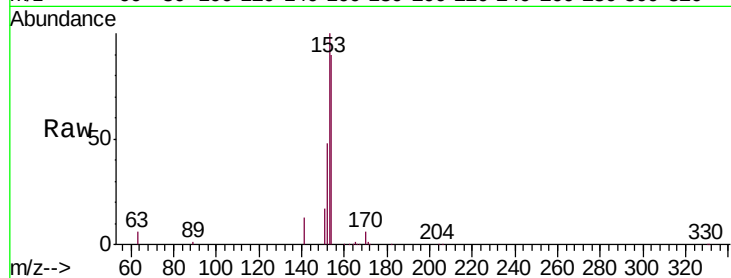
Tgt Ion:154 Resp: 92340

Ion Ratio Lower Upper

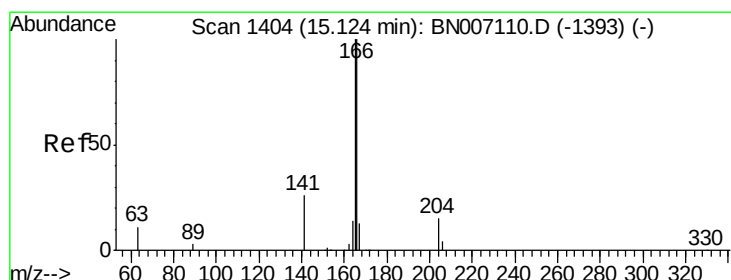
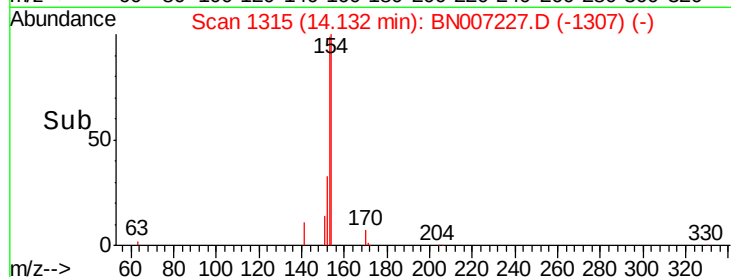
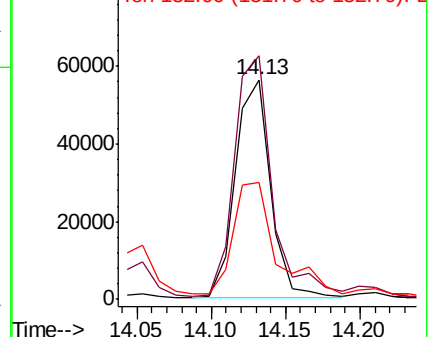
154 100

153 119.0 89.5 134.3

152 61.7 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: 1.901 ng

RT: 15.12 min Scan# 1404

Delta R.T. -0.01 min

Lab File: BN007227.D

Acq: 16 Aug 2019 17:36

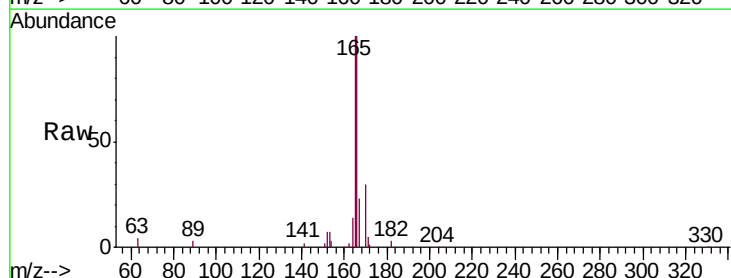
Tgt Ion:166 Resp: 175978

Ion Ratio Lower Upper

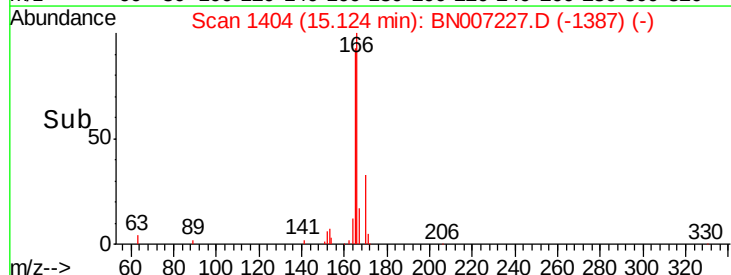
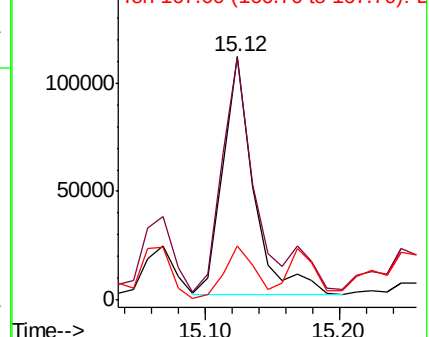
166 100

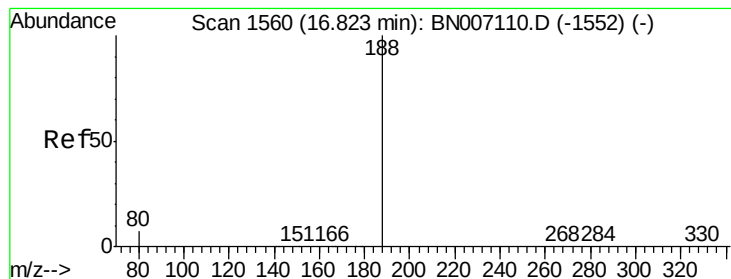
165 112.3 77.9 116.9

167 21.1 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: BN007227.D

Acq: 16 Aug 2019 17:36

Instrument :

BNA_N

ClientSampleId :

EXT-034-SW092-080519

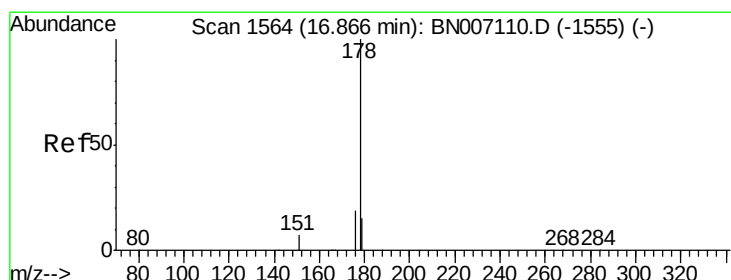
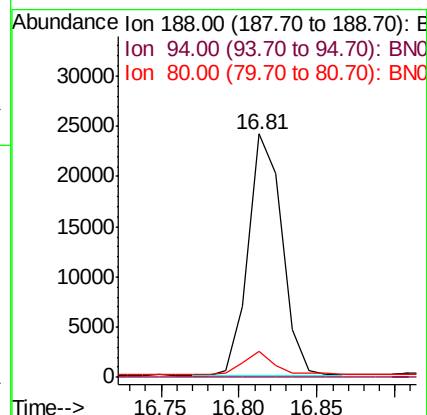
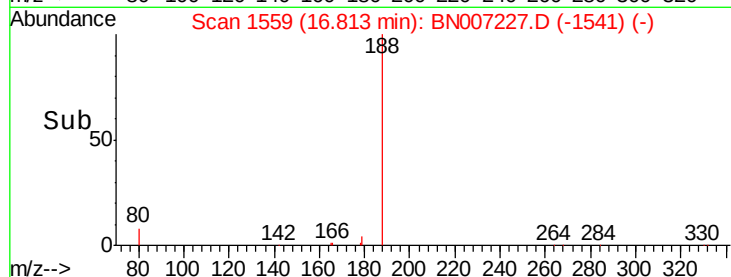
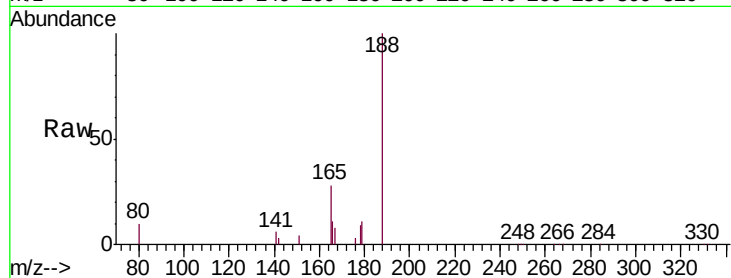
Tgt Ion:188 Resp: 36018

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 10.5 7.8 11.6



#22

Phenanthrene

Concen: 40.466 ng

RT: 16.86 min Scan# 1563

Delta R.T. -0.01 min

Lab File: BN007227.D

Acq: 16 Aug 2019 17:36

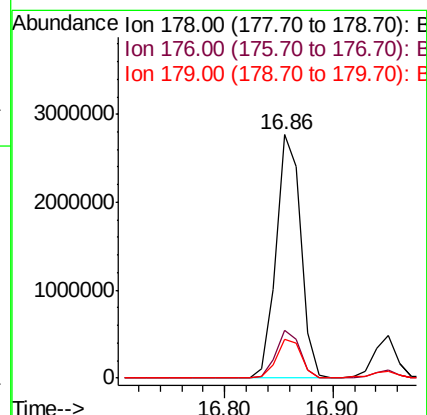
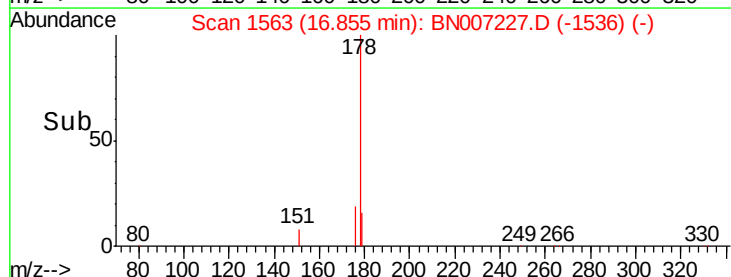
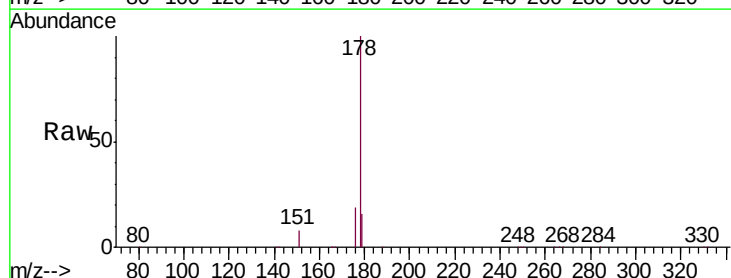
Tgt Ion:178 Resp: 4368001

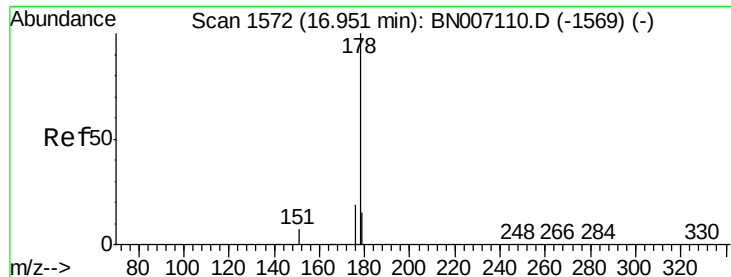
Ion Ratio Lower Upper

178 100

176 19.0 15.2 22.8

179 16.2 12.3 18.5





#23

Anthracene

Concen: 6.861 ng

RT: 16.95 min Scan# 1572

Delta R.T. -0.01 min

Lab File: BN007227.D

Acq: 16 Aug 2019 17:36

Instrument :

BNA_N

ClientSampleId :

EXT-034-SW092-080519

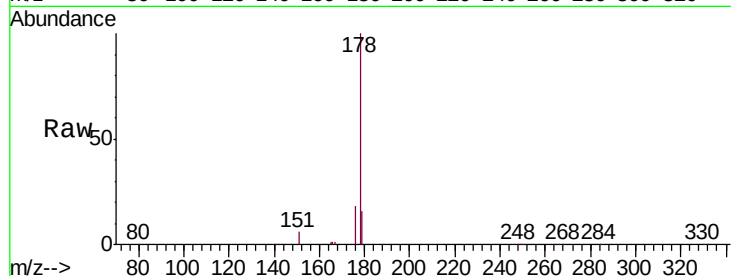
Tgt Ion:178 Resp: 676695

Ion Ratio Lower Upper

178 100

176 18.4 14.6 21.8

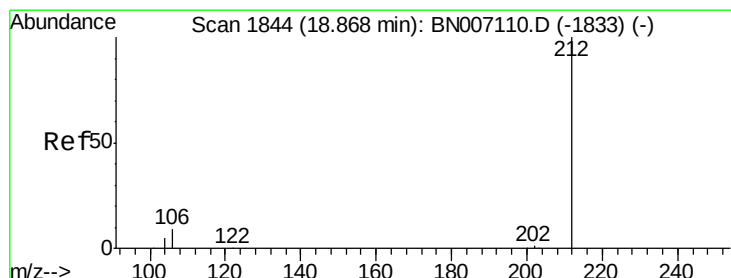
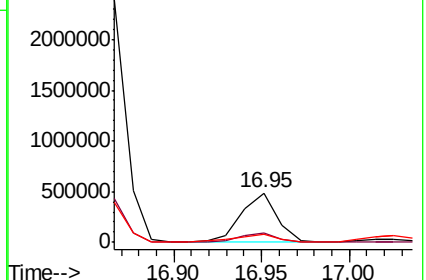
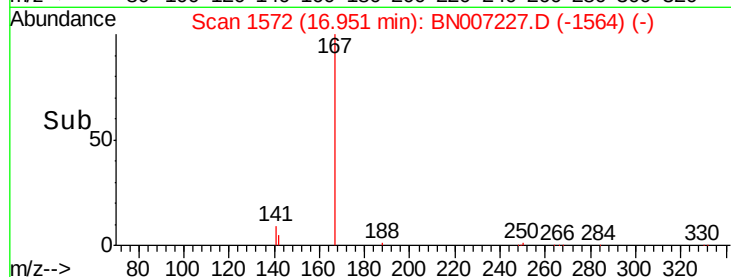
179 17.4 12.5 18.7



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



#24

Fluoranthene-d10

Concen: 0.233 ng

RT: 18.86 min Scan# 1843

Delta R.T. -0.01 min

Lab File: BN007227.D

Acq: 16 Aug 2019 17:36

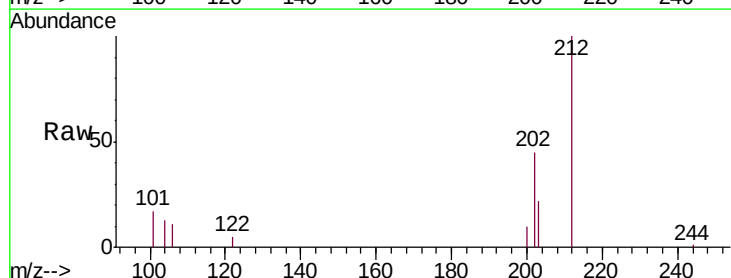
Tgt Ion:212 Resp: 29751

Ion Ratio Lower Upper

212 100

106 11.3 8.2 12.2

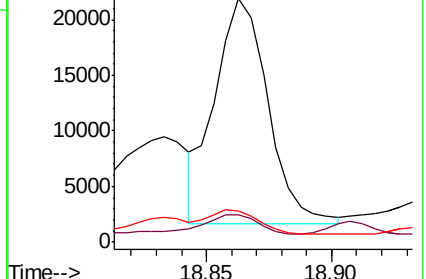
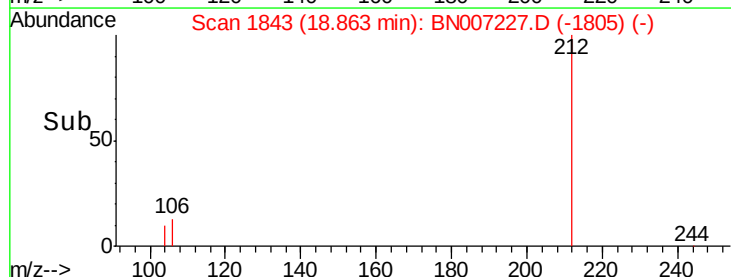
104 10.9 4.5 6.7#

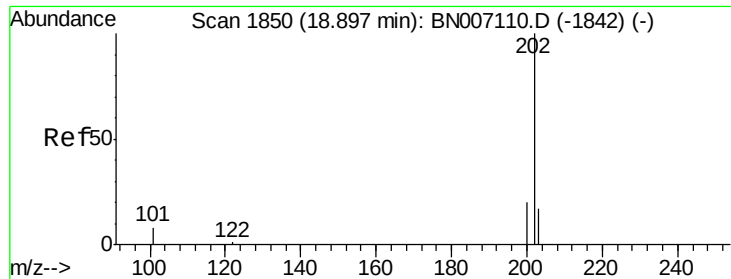


Abundance Ion 212.00 (211.70 to 212.70): E

Ion 106.00 (105.70 to 106.70): E

Ion 104.00 (103.70 to 104.70): E





#25

Fluoranthene

Concen: 30.128 ng

RT: 18.89 min Scan# 1849

Delta R.T. -0.01 min

Lab File: BN007227.D

Acq: 16 Aug 2019 17:36

Instrument :

BNA_N

ClientSampleId :

EXT-034-SW092-080519

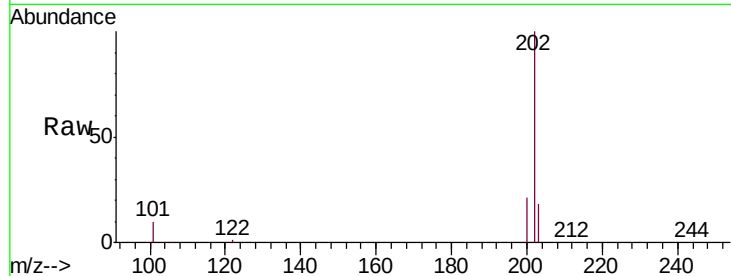
Tgt Ion:202 Resp: 4160070

Ion Ratio Lower Upper

202 100

101 9.2 7.0 10.4

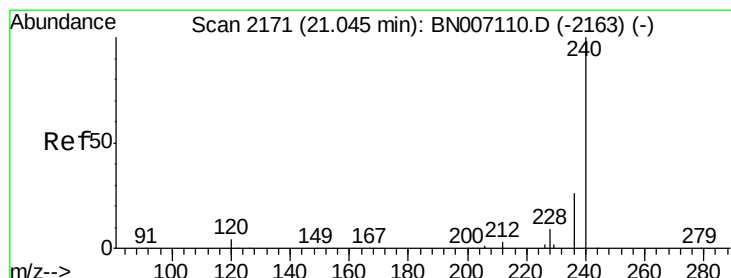
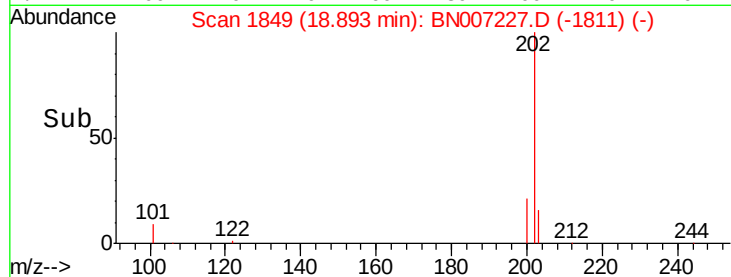
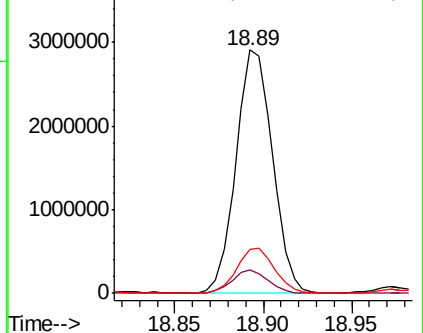
203 18.8 13.8 20.8



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: BN007227.D

Acq: 16 Aug 2019 17:36

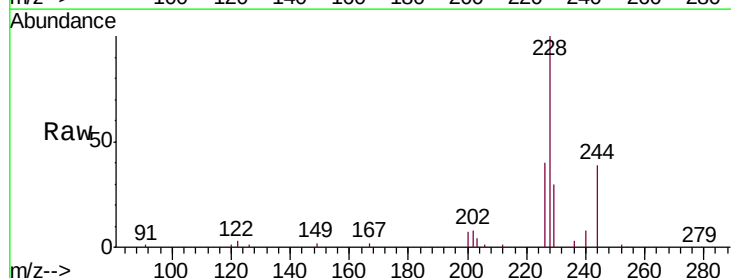
Tgt Ion:240 Resp: 39475

Ion Ratio Lower Upper

240 100

120 12.6 4.0 6.0#

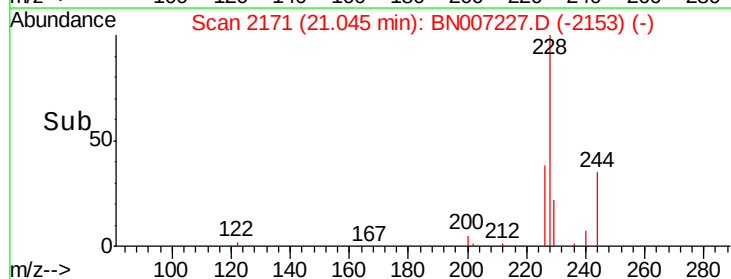
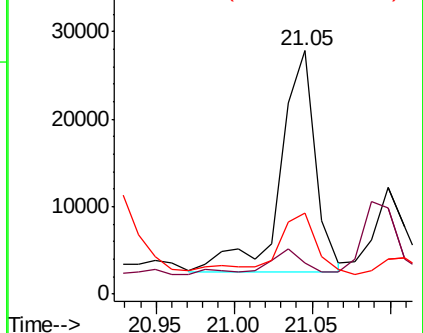
236 33.4 21.3 31.9#

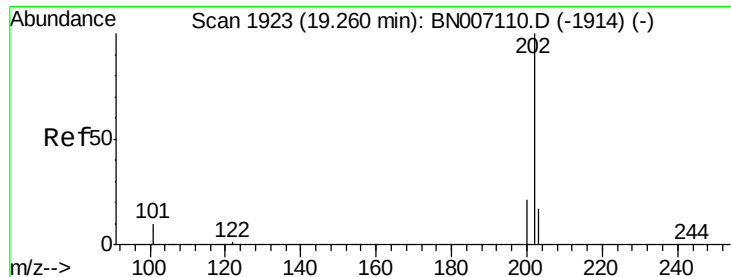


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#27

Pyrene

Concen: 51.304 ng

RT: 19.26 min Scan# 1924

Delta R.T. -0.00 min

Lab File: BN007227.D

Acq: 16 Aug 2019 17:36

Instrument :

BNA_N

ClientSampleId :

EXT-034-SW092-080519

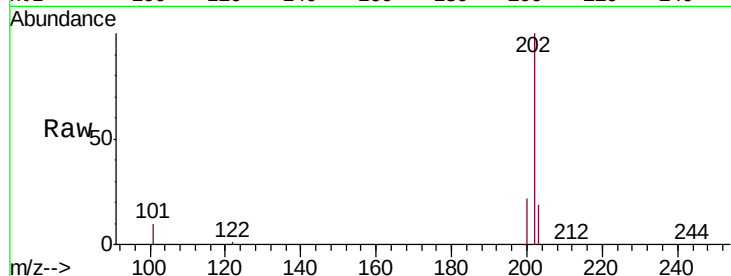
Tgt Ion:202 Resp: 7102221

Ion Ratio Lower Upper

202 100

200 21.6 16.6 24.8

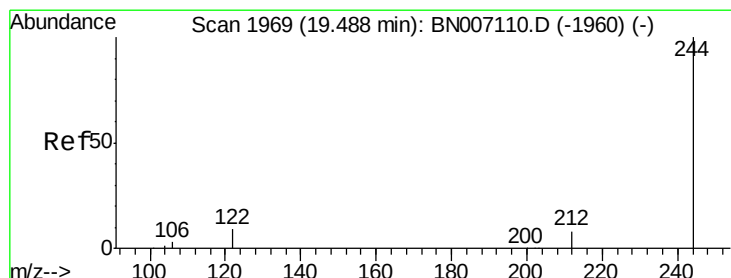
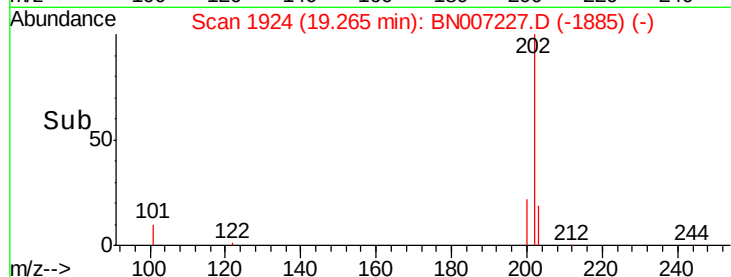
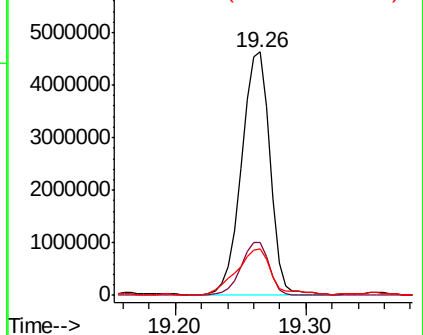
203 23.3 14.0 21.0#



Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E



#28

Terphenyl-d14

Concen: 0.226 ng

RT: 19.48 min Scan# 1968

Delta R.T. -0.01 min

Lab File: BN007227.D

Acq: 16 Aug 2019 17:36

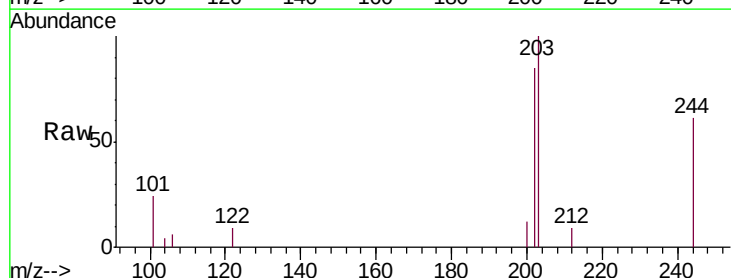
Tgt Ion:244 Resp: 24360

Ion Ratio Lower Upper

244 100

212 14.0 6.2 9.2#

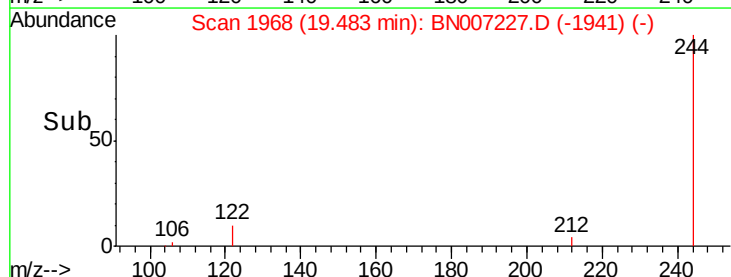
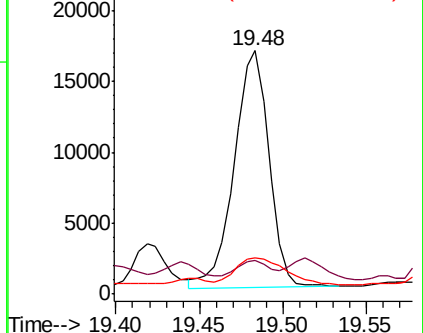
122 15.0 7.4 11.2#

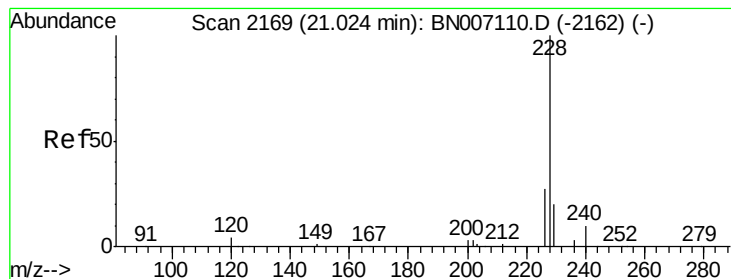


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





#29

Benzo(a)anthracene

Concen: 22.125 ng

RT: 21.02 min Scan# 2169

Delta R.T. -0.01 min

Lab File: BN007227.D

Acq: 16 Aug 2019 17:36

Instrument :

BNA_N

ClientSampleId :

EXT-034-SW092-080519

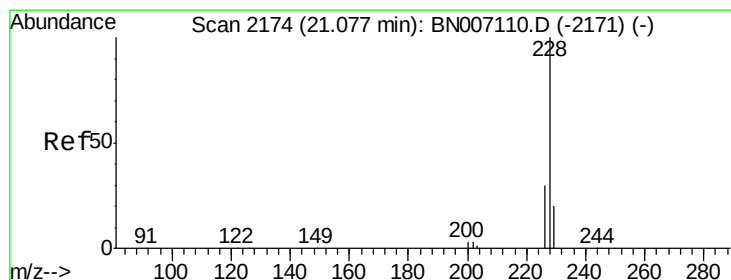
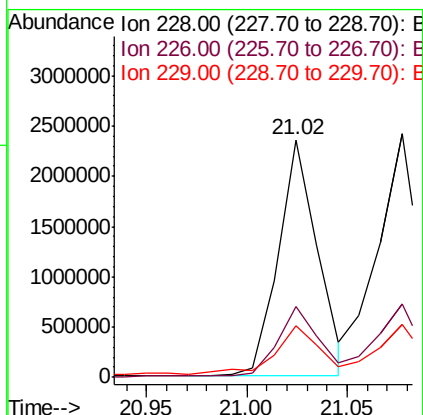
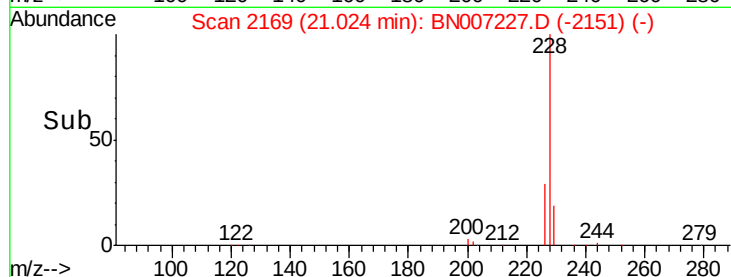
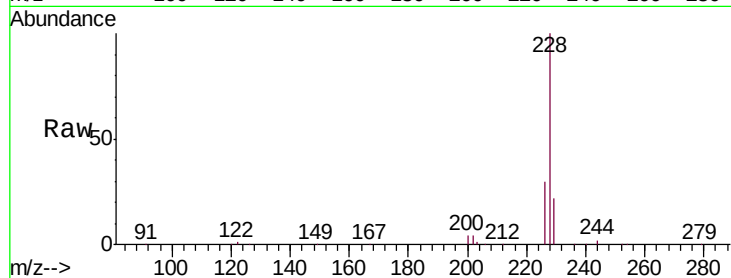
Tgt Ion:228 Resp: 3194018

Ion Ratio Lower Upper

228 100

226 29.7 21.8 32.6

229 22.0 15.6 23.4



#30

Chrysene

Concen: 24.685 ng

RT: 21.08 min Scan# 2174

Delta R.T. -0.01 min

Lab File: BN007227.D

Acq: 16 Aug 2019 17:36

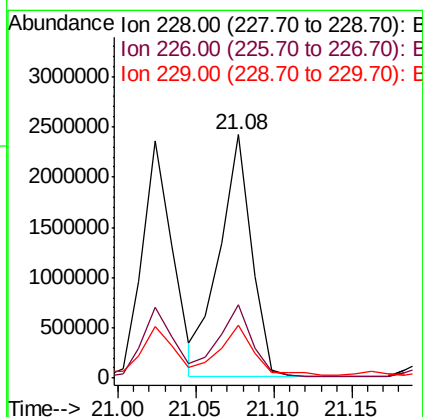
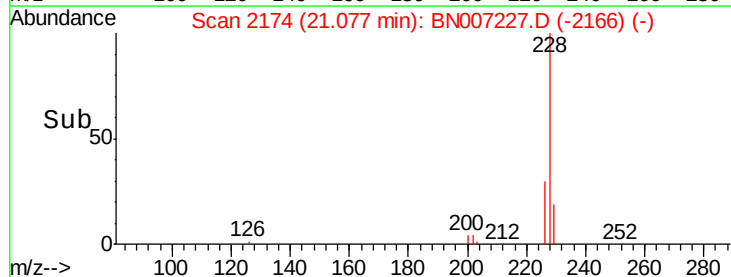
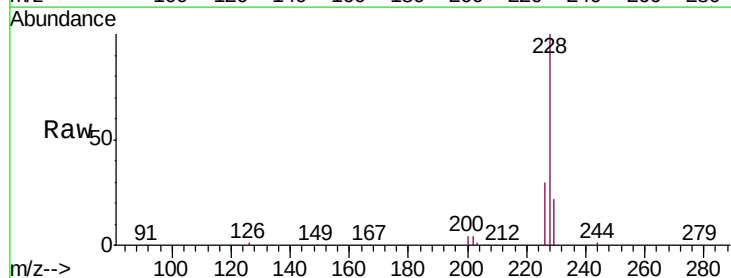
Tgt Ion:228 Resp: 3462253

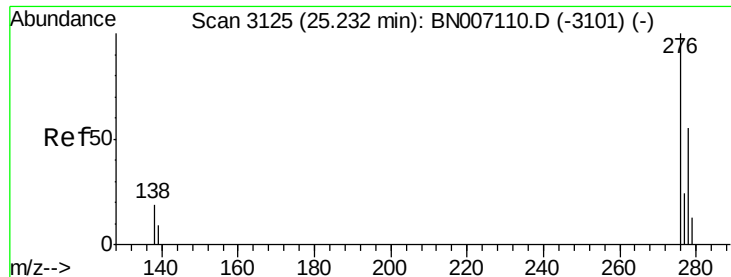
Ion Ratio Lower Upper

228 100

226 30.0 23.8 35.6

229 21.7 15.7 23.5





#31

Indeno(1,2,3-cd)pyrene

Concen: 7.638 ng

RT: 25.23 min Scan# 3125

Delta R.T. -0.02 min

Lab File: BN007227.D

Acq: 16 Aug 2019 17:36

Instrument :

BNA_N

ClientSampleId :

EXT-034-SW092-080519

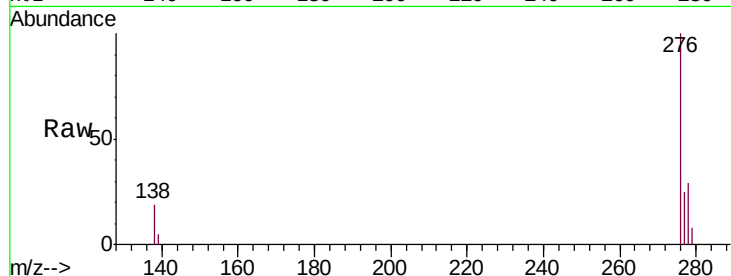
Tgt Ion:276 Resp: 1180801

Ion Ratio Lower Upper

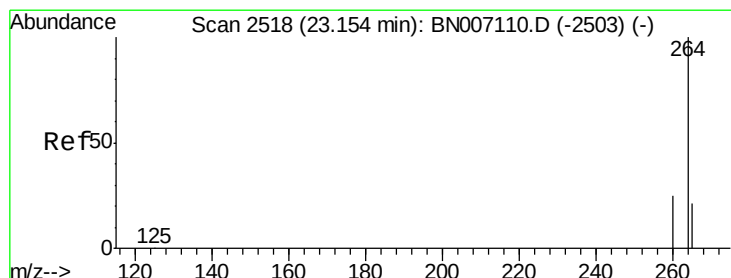
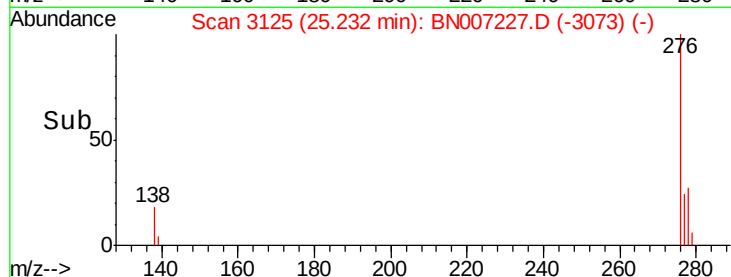
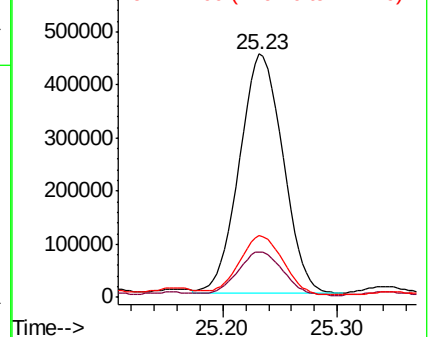
276 100

138 18.7 16.0 24.0

277 25.2 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: BN007227.D

Acq: 16 Aug 2019 17:36

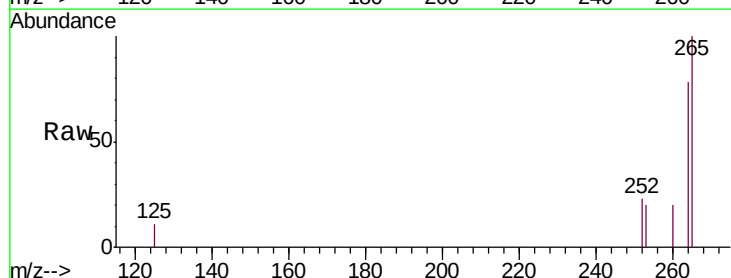
Tgt Ion:264 Resp: 50930

Ion Ratio Lower Upper

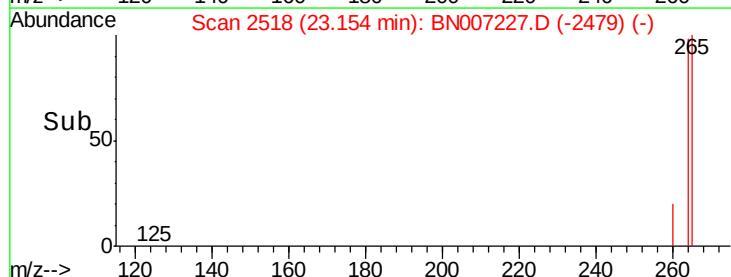
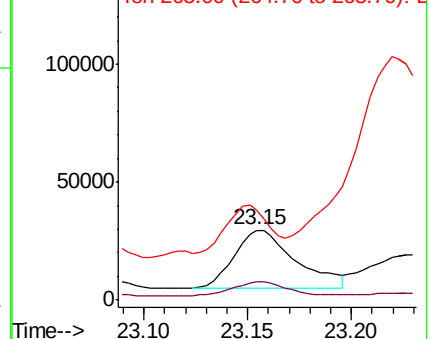
264 100

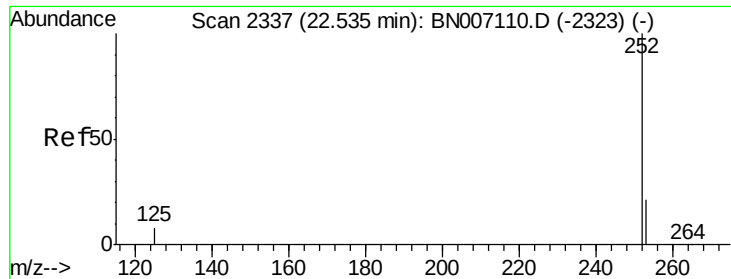
260 26.0 19.8 29.8

265 128.0 26.2 39.4#



Abundance Ion 264.00 (263.70 to 264.70): E
Ion 260.00 (259.70 to 260.70): E
Ion 265.00 (264.70 to 265.70): E





#33

Benzo(b)fluoranthene

Concen: 18.721 ng

RT: 22.54 min Scan# 2338

Delta R.T. -0.01 min

Lab File: BN007227.D

Acq: 16 Aug 2019 17:36

Instrument :

BNA_N

ClientSampleId :

EXT-034-SW092-080519

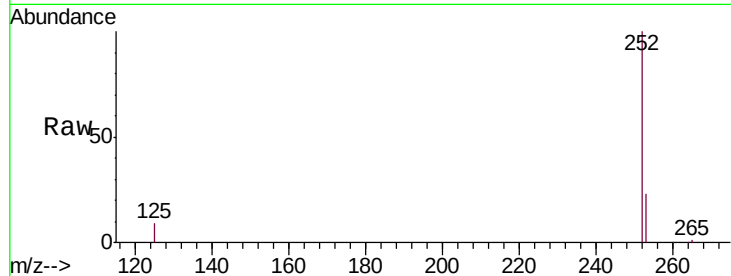
Tgt Ion:252 Resp: 3269439

Ion Ratio Lower Upper

252 100

253 23.0 18.2 27.2

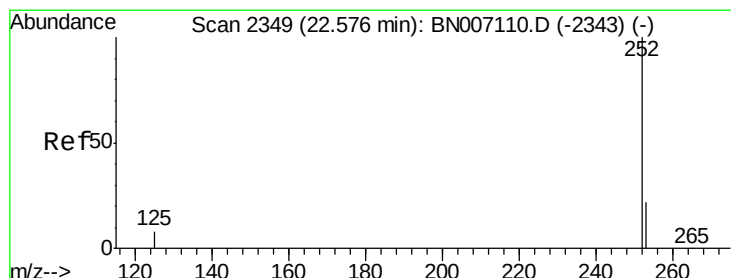
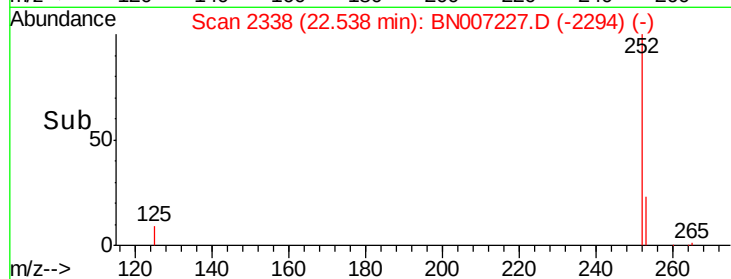
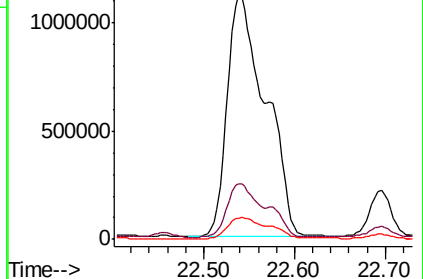
125 8.8 7.4 11.0



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: 18.951 ng

RT: 22.54 min Scan# 2338

Delta R.T. -0.05 min

Lab File: BN007227.D

Acq: 16 Aug 2019 17:36

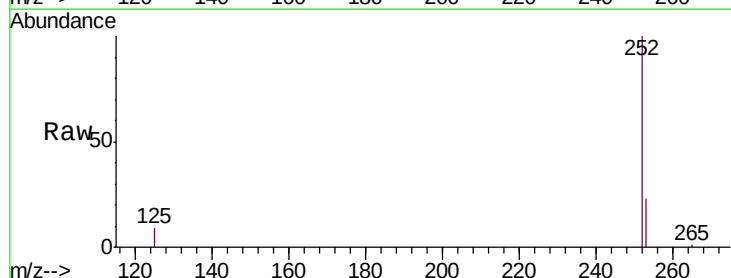
Tgt Ion:252 Resp: 3268666

Ion Ratio Lower Upper

252 100

253 23.0 18.1 27.1

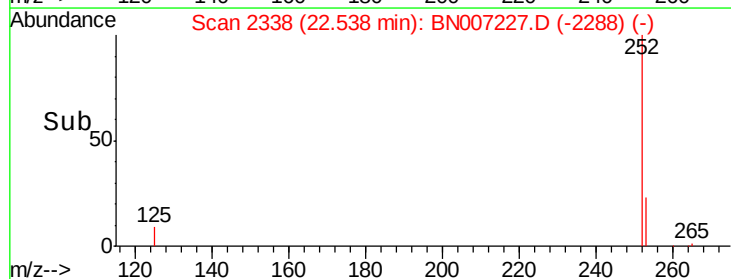
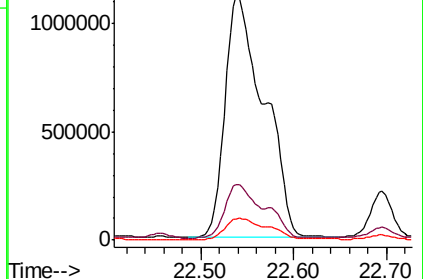
125 8.8 7.4 11.0

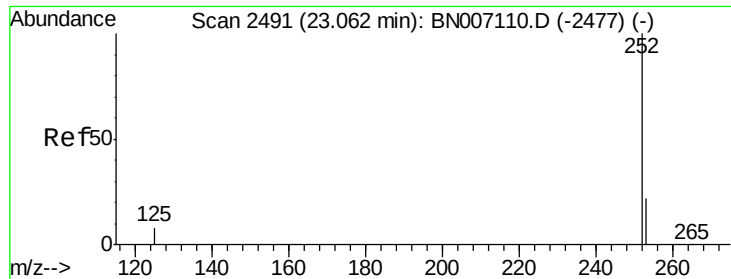


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#35

Benzo(a)pyrene

Concen: 14.369 ng

RT: 23.07 min Scan# 2492

Delta R.T. -0.02 min

Lab File: BN007227.D

Acq: 16 Aug 2019 17:36

Instrument :

BNA_N

ClientSampleId :

EXT-034-SW092-080519

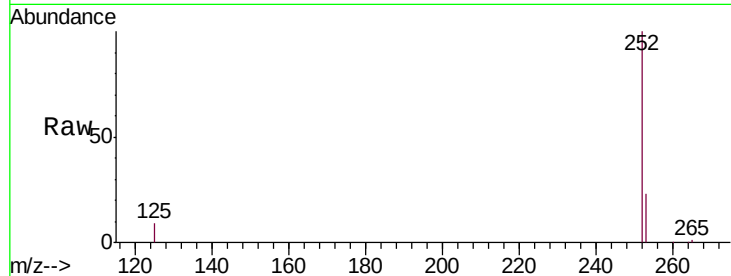
Tgt Ion:252 Resp: 2275007

Ion Ratio Lower Upper

252 100

253 22.8 18.5 27.7

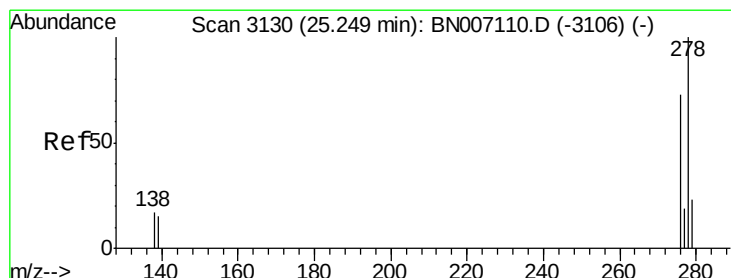
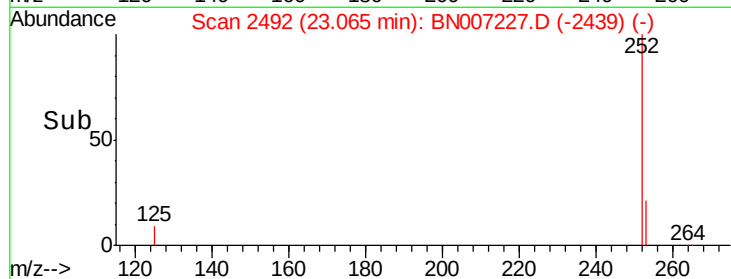
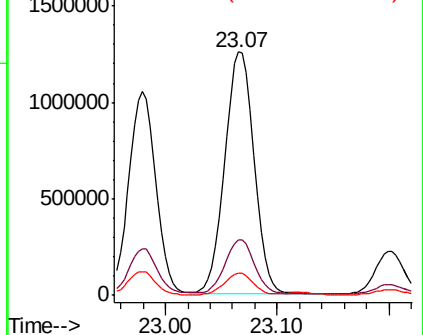
125 9.0 8.2 12.4



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: 2.576 ng

RT: 25.24 min Scan# 3127

Delta R.T. -0.03 min

Lab File: BN007227.D

Acq: 16 Aug 2019 17:36

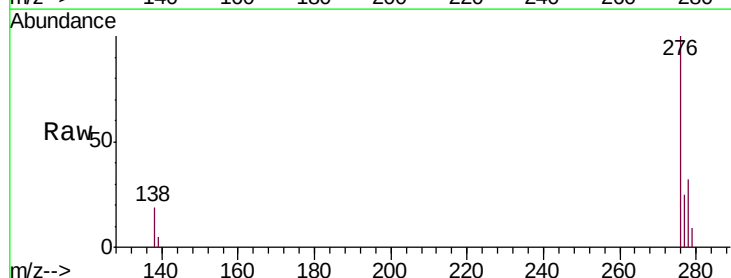
Tgt Ion:278 Resp: 407006

Ion Ratio Lower Upper

278 100

139 15.7 11.3 16.9

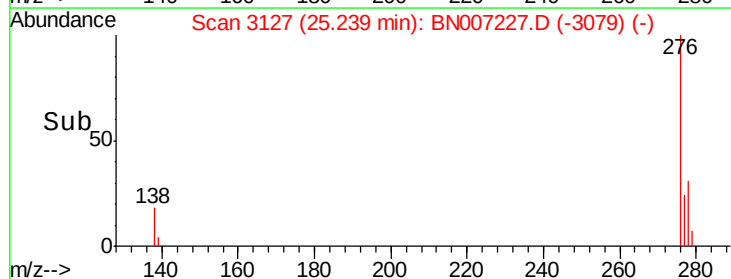
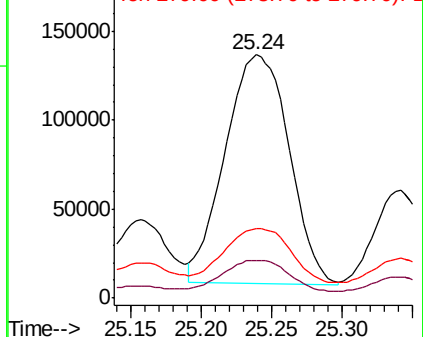
279 28.6 19.3 28.9

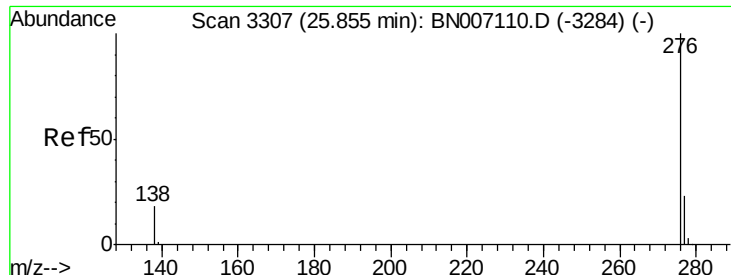


Abundance Ion 278.00 (277.70 to 278.70): E

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: 9.025 ng

RT: 25.87 min Scan# 3310

Delta R.T. -0.01 min

Lab File: BN007227.D

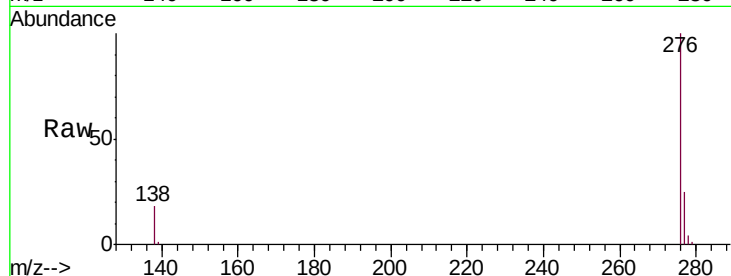
Acq: 16 Aug 2019 17:36

Instrument :

BNA_N

ClientSampleId :

EXT-034-SW092-080519



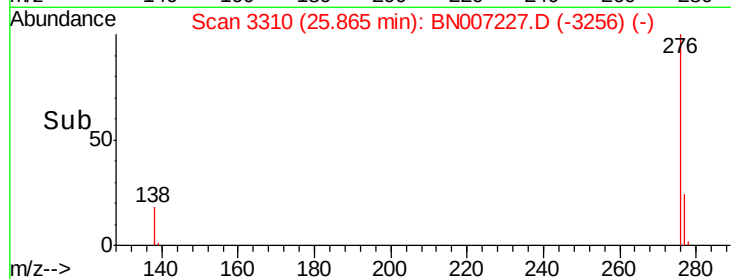
Tgt Ion: 276 Resp: 1466473

Ion Ratio Lower Upper

276 100

277 24.6 19.8 29.8

138 18.4 14.6 22.0



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

