

Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN081419\
 Data File : BN007177.D
 Acq On : 14 Aug 2019 23:29
 Operator : HP/JU
 Sample : K4239-16
 Misc :
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :

Quant Time: Aug 15 11:04:23 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	7575	0.40	ng	0.00
6) Naphthalene-d8	10.19	136	27767	0.40	ng	0.00
12) Acenaphthene-d10	14.07	164	14946	0.40	ng	-0.01
18) Phenanthrene-d10	16.82	188	34206	0.40	ng	0.00
26) Chrysene-d12	21.05	240	33975	0.40	ng	-0.01
32) Perylene-d12	23.15	264	39355	0.40	ng	-0.02

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
3) 2-Fluorophenol	5.06	112	5032	0.28	ng	0.00
4) Phenol-d6	6.61	99	6448	0.29	ng	0.00
7) Nitrobenzene-d5	8.55	82	5313	0.24	ng	-0.01
10) 2-Methylnaphthalene-d10	11.79	152	10645	0.21	ng	0.00
13) 2,4,6-Tribromophenol	15.57	330	652	0.08	ng	0.00
14) 2-Fluorobiphenyl	12.71	172	1799	0.08	ng	0.00
24) Fluoranthene-d10	18.87	212	23913	0.20	ng	0.00
28) Terphenyl-d14	19.48	244	17549	0.19	ng	-0.01

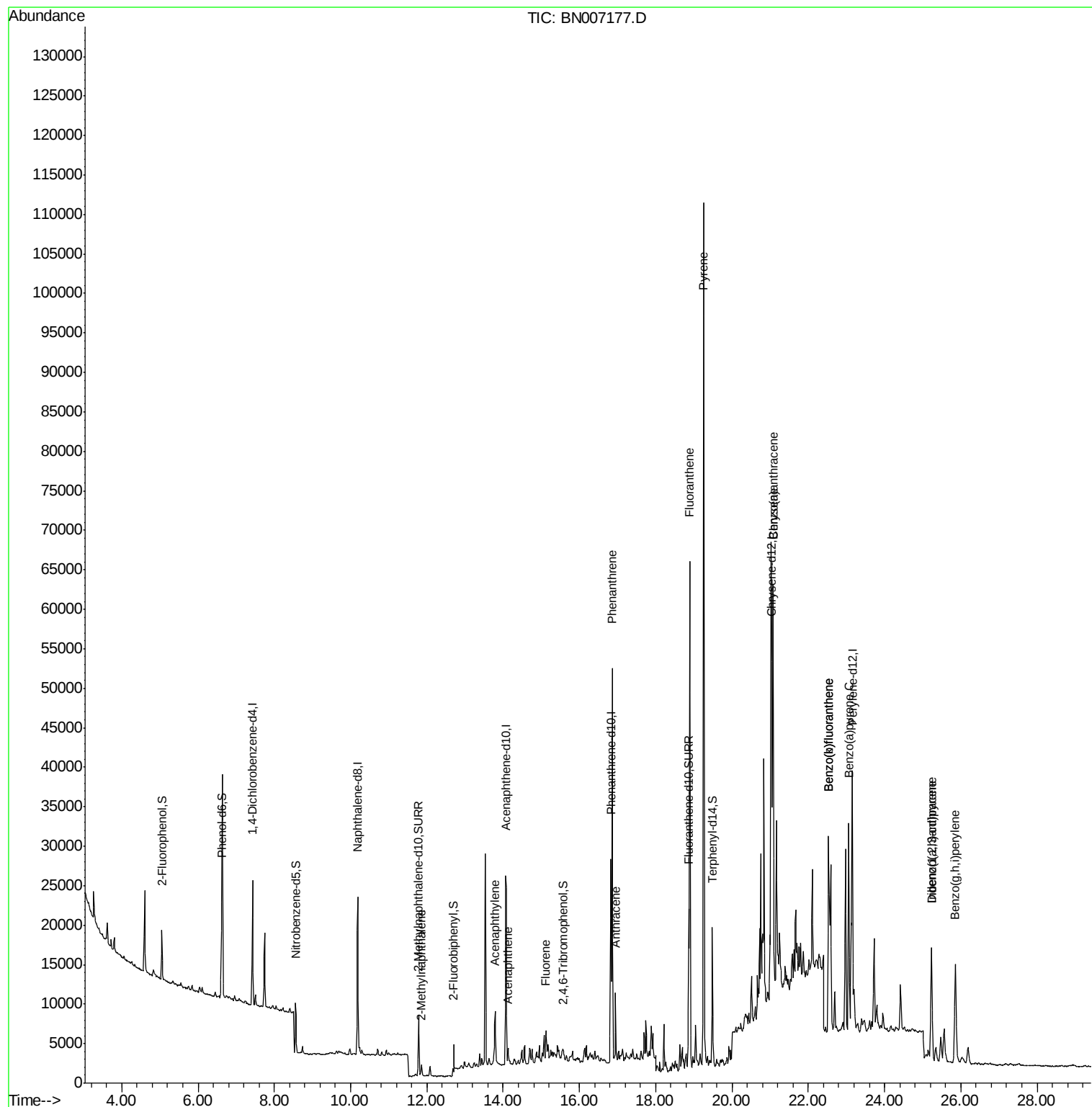
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) 2-Methylnaphthalene	11.86	142	1170	0.021	ng	# 86
15) Acenaphthylene	13.79	152	12243	0.157	ng	98
16) Acenaphthene	14.13	154	1329	0.027	ng	94
17) Fluorene	15.12	166	3273	0.044	ng	# 79
22) Phenanthrene	16.87	178	54103	0.528	ng	99
23) Anthracene	16.95	178	7546	0.081	ng	97
25) Fluoranthene	18.90	202	58386	0.445	ng	99
27) Pyrene	19.26	202	100398	0.843	ng	97
29) Benzo(a)anthracene	21.08	228	50655	0.408	ng	94
30) Chrysene	21.08	228	50331	0.417	ng	97
31) Indeno(1,2,3-cd)pyrene	25.23	276	20534	0.154	ng	98
33) Benzo(b)fluoranthene	22.53	252	41882	0.310	ng	# 91
34) Benzo(k)fluoranthene	22.53	252	41882	0.314	ng	# 91
35) Benzo(a)pyrene	23.06	252	34858	0.285	ng	# 93
36) Dibenzo(a,h)anthracene	25.24	278	6441	0.053	ng	# 36
37) Benzo(g,h,i)perylene	25.86	276	25307	0.202	ng	# 92

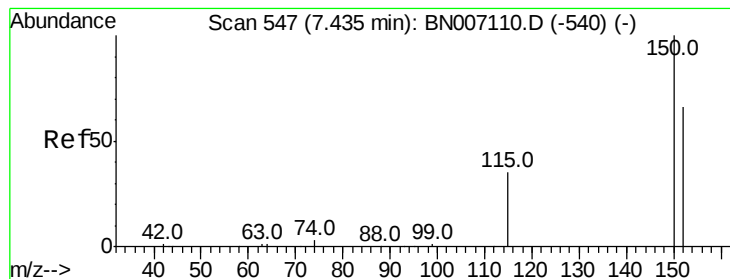
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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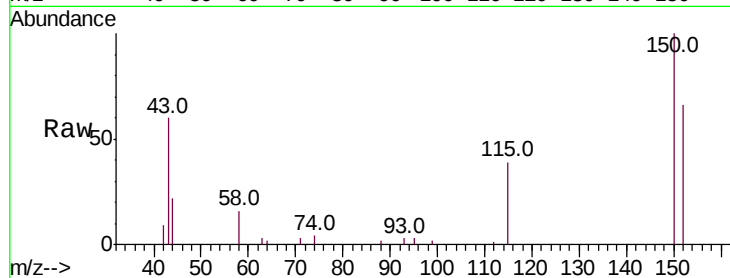


#1

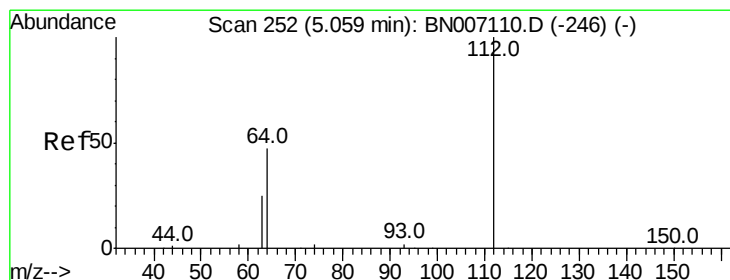
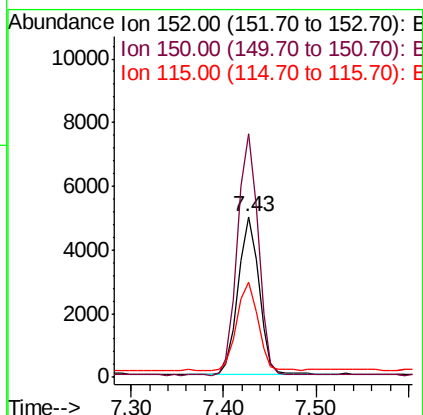
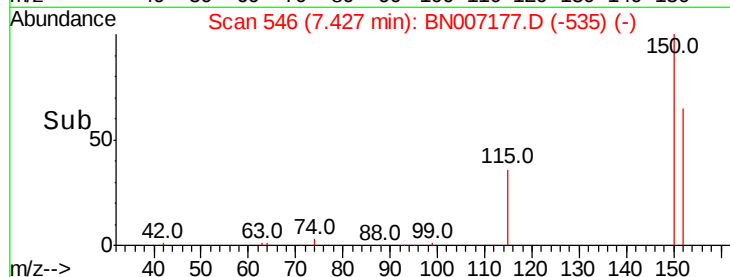
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.43 min Scan# 546
Delta R.T. -0.01 min
Lab File: BN007177.D
Acq: 14 Aug 2019 23:29

Instrument :
BNA_N
ClientSampleId :

Tot Ion:152 Resp: 7575
Ion Ratio Lower Upper
152 100
150 151.6 121.7 182.5
115 59.0 46.2 69.4



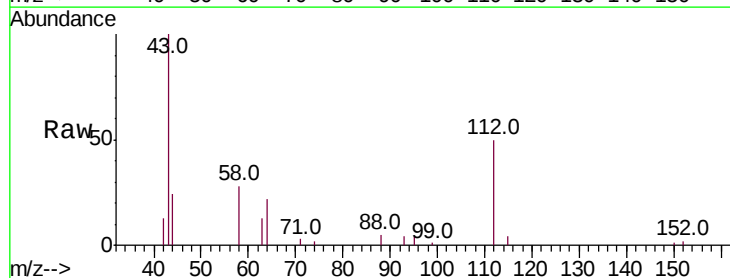
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



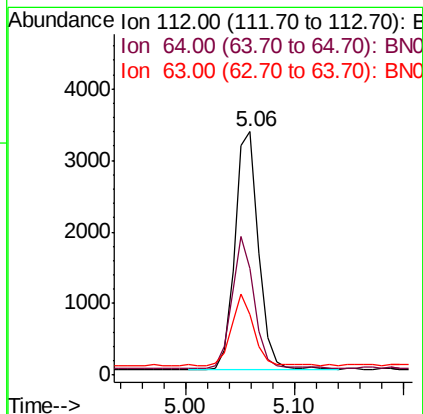
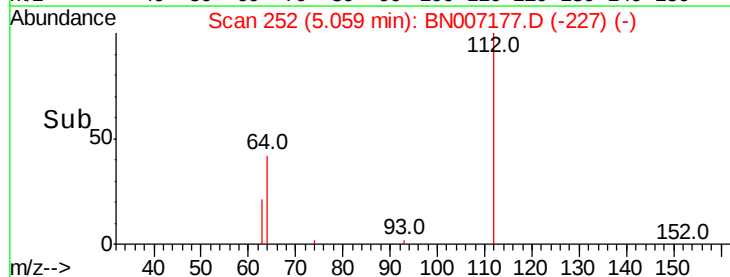
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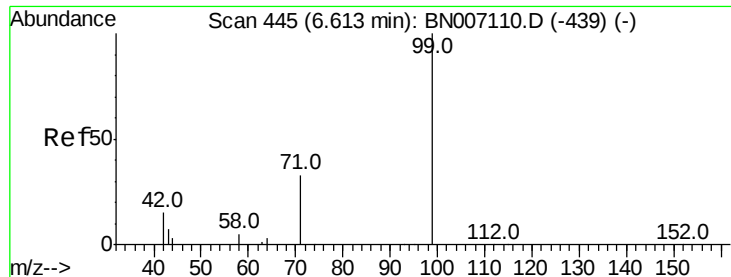
2-Fluorophenol
Concen: 0.276 ng
RT: 5.06 min Scan# 252
Delta R.T. -0.00 min
Lab File: BN007177.D
Acq: 14 Aug 2019 23:29

Tgt Ion:112 Resp: 5032
Ion Ratio Lower Upper
112 100
64 53.0 42.6 63.8
63 28.0 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: 0.286 ng

RT: 6.61 min Scan# 445

Delta R.T. -0.00 min

Lab File: BN007177.D

Acq: 14 Aug 2019 23:29

Instrument :

BNA_N

ClientSampleId :

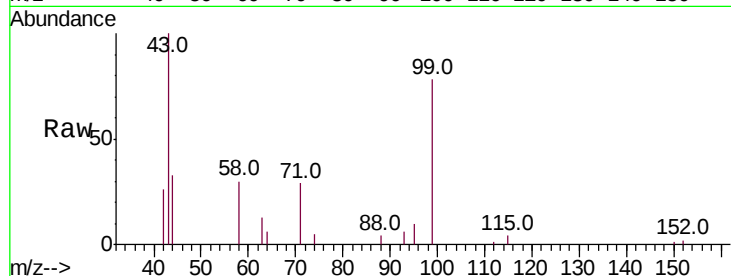
Tot Ion: 99 Resp: 6448

Ion Ratio Lower Upper

99 100

42 0.0 15.8 23.6#

71 34.3 27.0 40.4

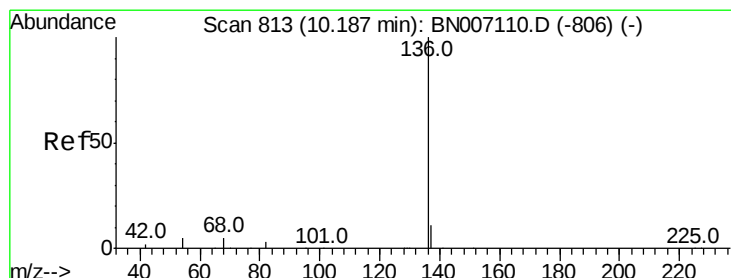
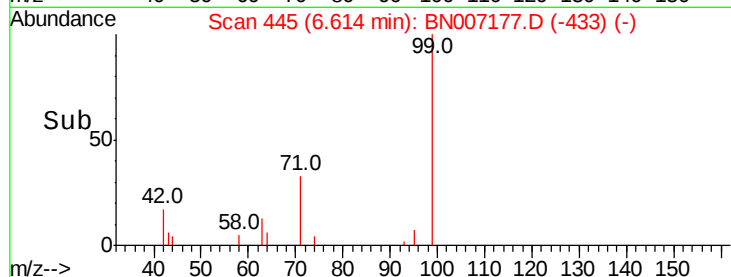
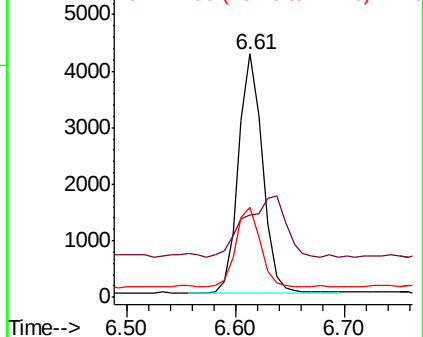


Abundance

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: 10.19 min Scan# 813

Delta R.T. -0.00 min

Lab File: BN007177.D

Acq: 14 Aug 2019 23:29

Tgt Ion: 136 Resp: 27767

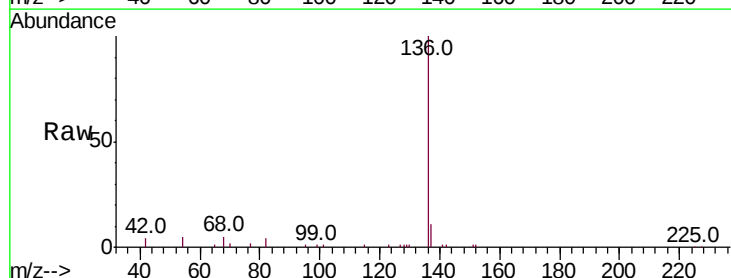
Ion Ratio Lower Upper

136 100

137 11.2 9.4 14.0

54 4.7 6.6 9.8#

68 4.9 6.0 9.0#



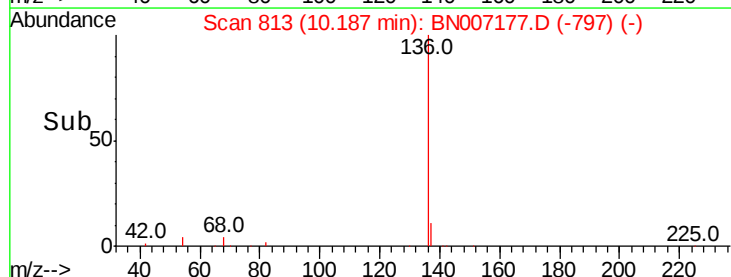
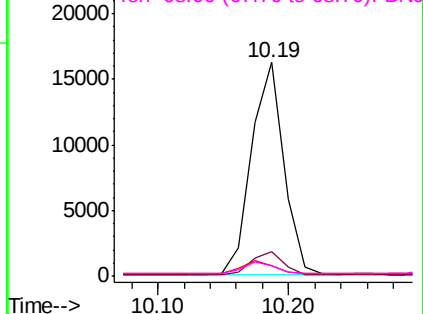
Abundance

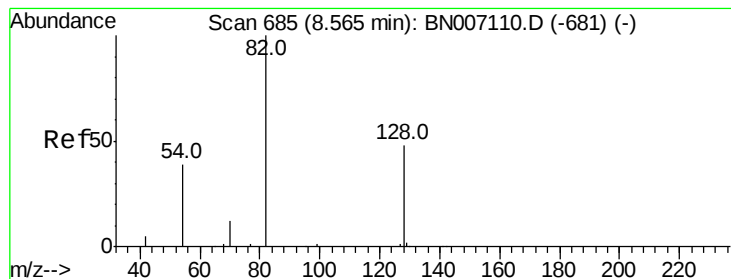
Ion 136.00 (135.70 to 136.70): BN007110.D (-806) (-)

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: 0.237 ng

RT: 8.55 min Scan# 684

Delta R.T. -0.01 min

Lab File: BN007177.D

Acq: 14 Aug 2019 23:29

Instrument :

BNA_N

ClientSampleId :

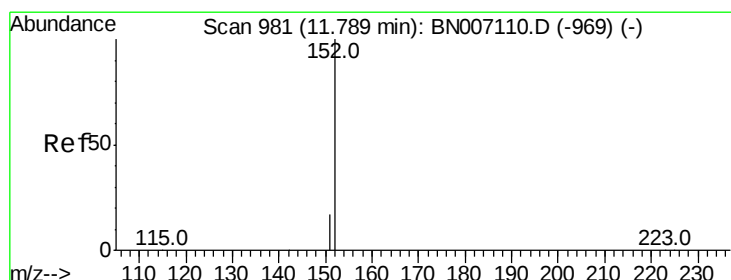
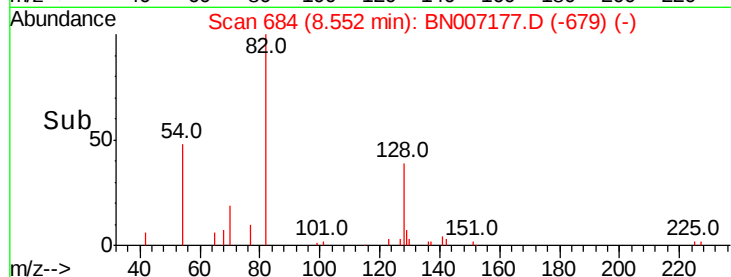
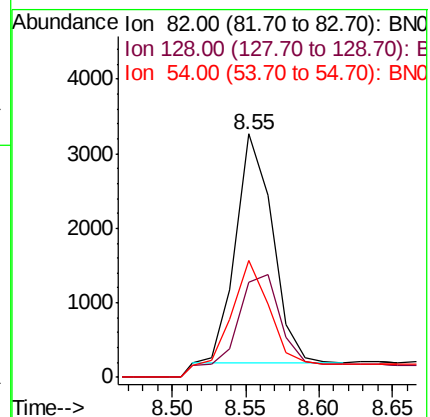
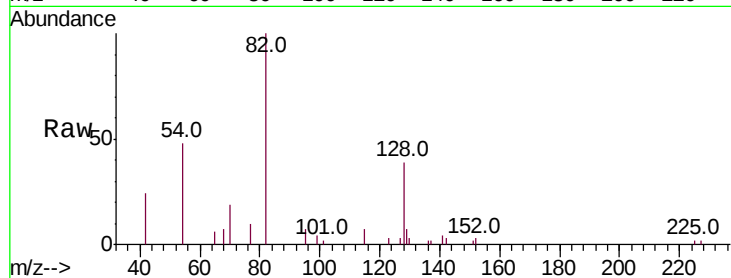
Tot Ion: 82 Resp: 5313

Ion Ratio Lower Upper

82 100

128 39.1 34.6 51.8

54 48.1 36.2 54.4



#10

2-Methylnaphthalene-d10

Concen: 0.206 ng

RT: 11.79 min Scan# 980

Delta R.T. -0.01 min

Lab File: BN007177.D

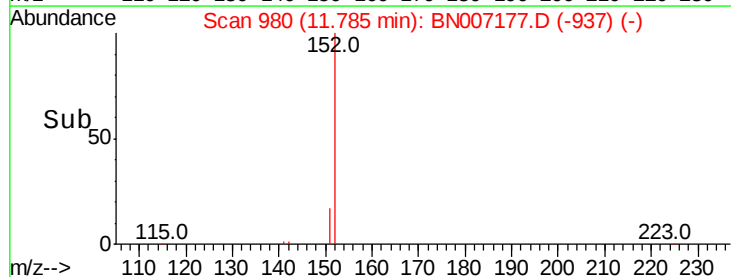
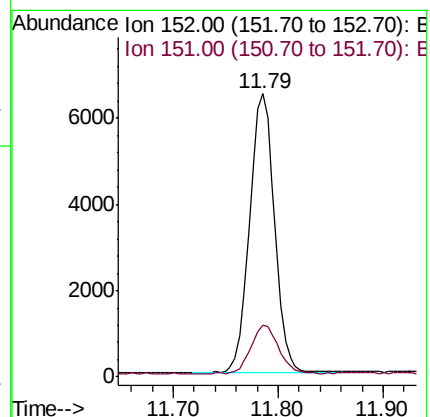
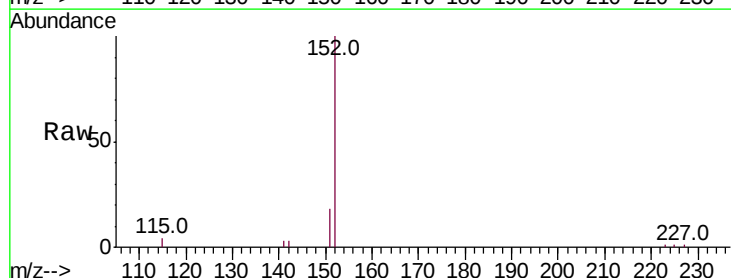
Acq: 14 Aug 2019 23:29

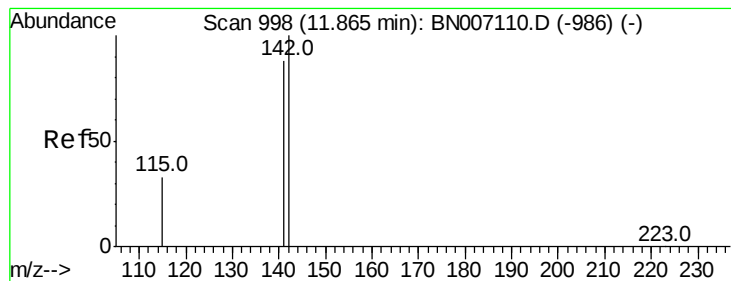
Tgt Ion: 152 Resp: 10645

Ion Ratio Lower Upper

152 100

151 19.1 15.5 23.3





#11

2-Methylnaphthalene

Concen: 0.021 ng

RT: 11.86 min Scan# 997

Delta R.T. -0.01 min

Lab File: BN007177.D

Acq: 14 Aug 2019 23:29

Instrument :

BNA_N

ClientSampled :

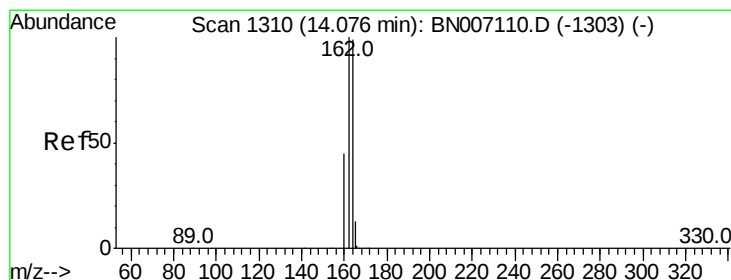
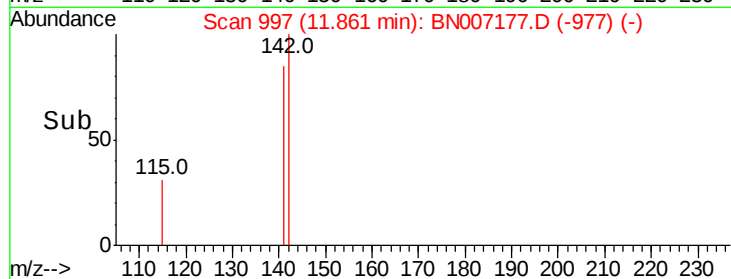
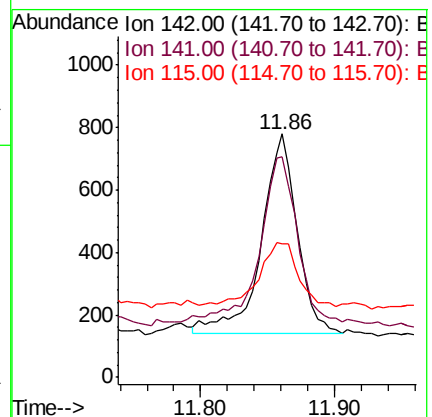
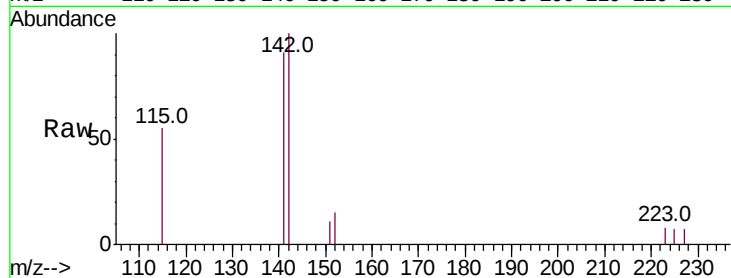
Tot Ion:142 Resp: 1170

Ion Ratio Lower Upper

142 100

141 90.6 69.0 103.6

115 55.1 27.1 40.7#



#12

Acenaphthene-d10

Concen: 0.400 ng

RT: 14.07 min Scan# 1309

Delta R.T. -0.01 min

Lab File: BN007177.D

Acq: 14 Aug 2019 23:29

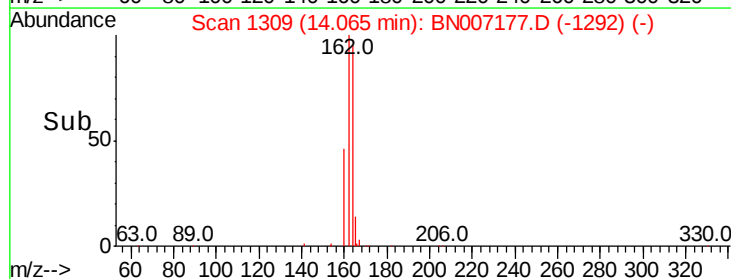
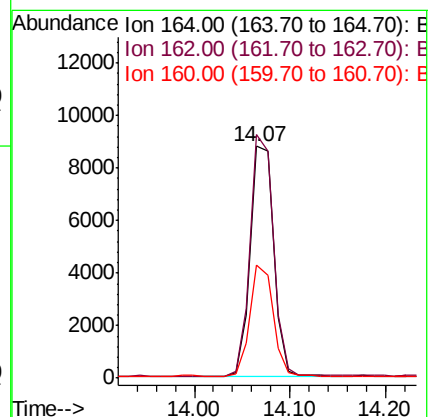
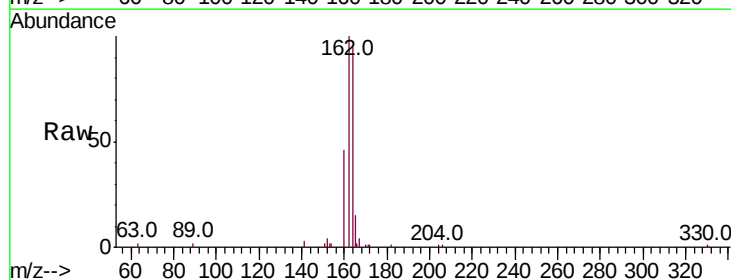
Tgt Ion:164 Resp: 14946

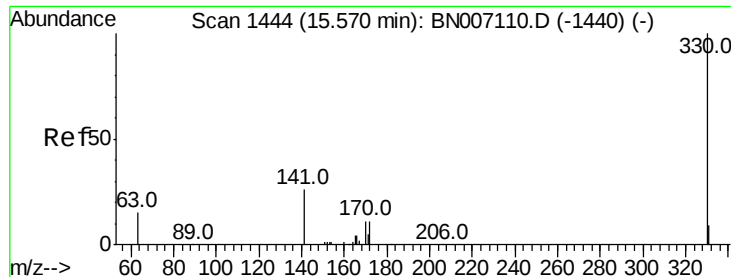
Ion Ratio Lower Upper

164 100

162 105.2 82.2 123.4

160 48.6 38.3 57.5

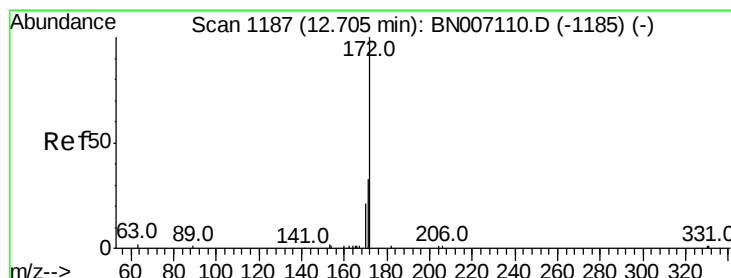
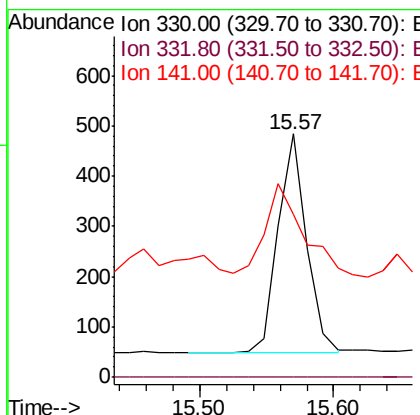
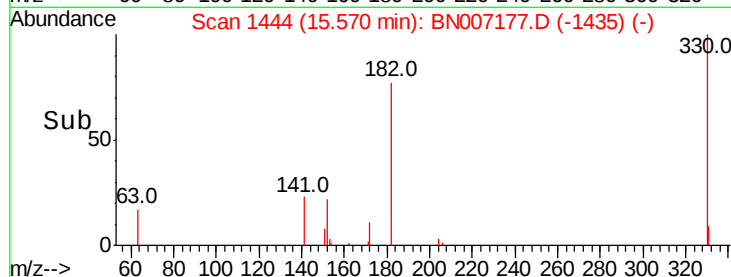
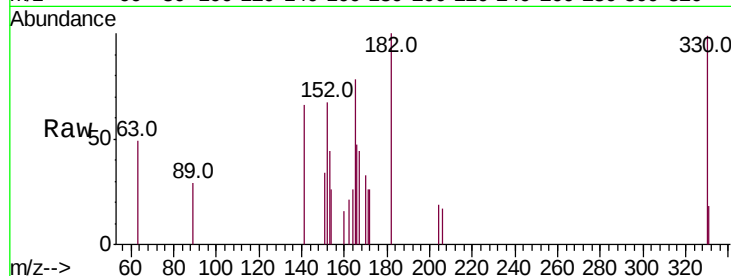




#13
 2,4,6-Tribromophenol
 Concen: 0.081 ng
 RT: 15.57 min Scan# 1444
 Delta R.T. -0.00 min
 Lab File: BN007177.D
 Acq: 14 Aug 2019 23:29

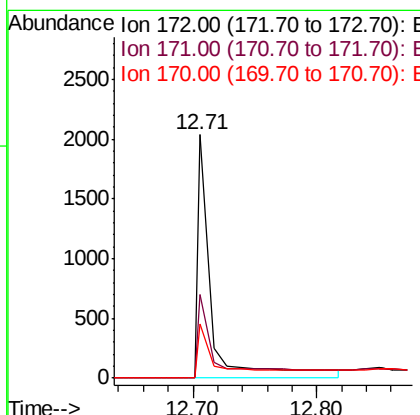
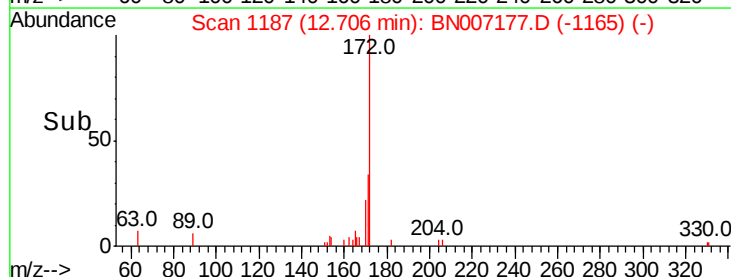
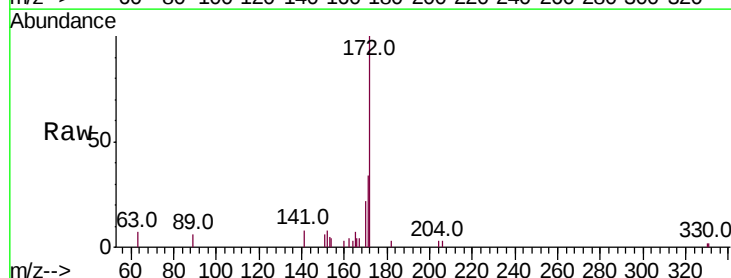
Instrument :
 BNA_N
 ClientSampleId :

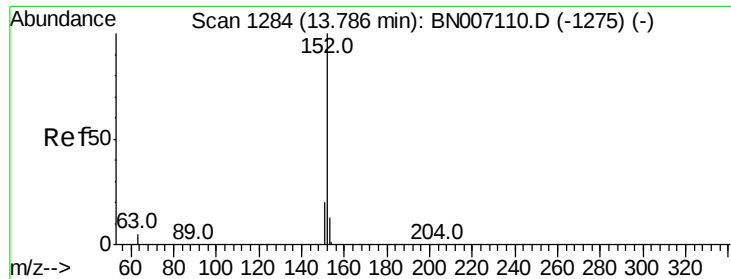
Tot Ion:330 Resp: 652
 Ion Ratio Lower Upper
 330 100
 332 0.0 0.0 0.0
 141 53.5 33.6 50.4#



#14
 2-Fluorobiphenyl
 Concen: 0.083 ng
 RT: 12.71 min Scan# 1187
 Delta R.T. -0.00 min
 Lab File: BN007177.D
 Acq: 14 Aug 2019 23:29

Tgt Ion:172 Resp: 1799
 Ion Ratio Lower Upper
 172 100
 171 34.2 26.3 39.5
 170 22.3 17.0 25.4





#15

Acenaphthylene

Concen: 0.157 ng

RT: 13.79 min Scan# 1284

Delta R.T. -0.00 min

Lab File: BN007177.D

Acq: 14 Aug 2019 23:29

Instrument :

BNA_N

ClientSampleId :

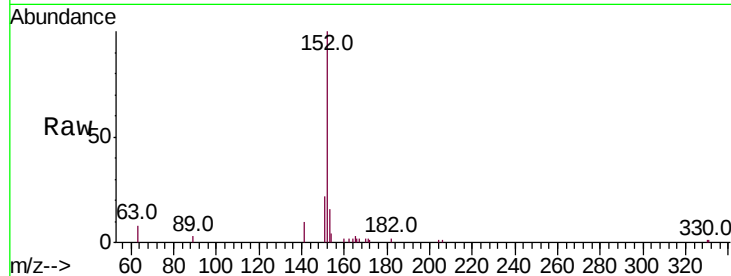
Tot Ion:152 Resp: 12243

Ion Ratio Lower Upper

152 100

151 20.7 15.8 23.6

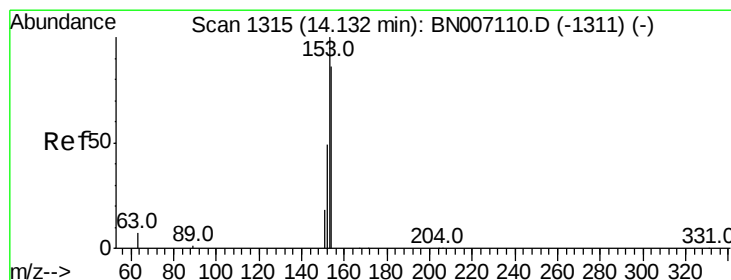
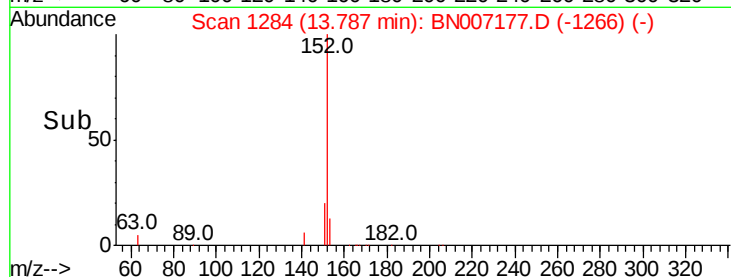
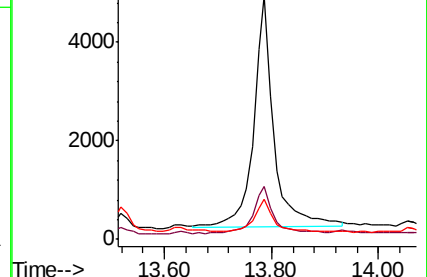
153 12.6 10.4 15.6



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: 0.027 ng

RT: 14.13 min Scan# 1315

Delta R.T. -0.01 min

Lab File: BN007177.D

Acq: 14 Aug 2019 23:29

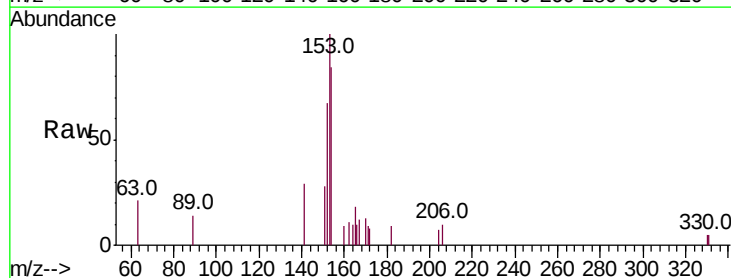
Tgt Ion:154 Resp: 1329

Ion Ratio Lower Upper

154 100

153 114.6 89.5 134.3

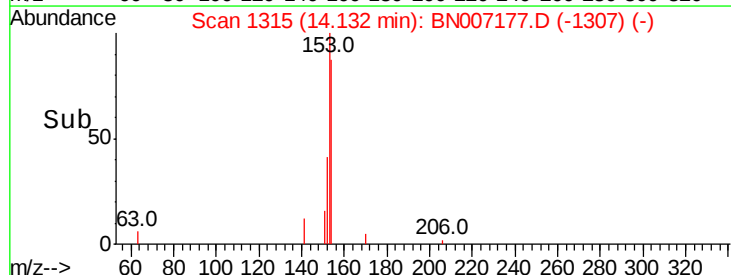
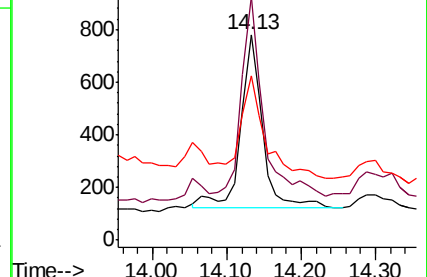
152 65.8 44.8 67.2

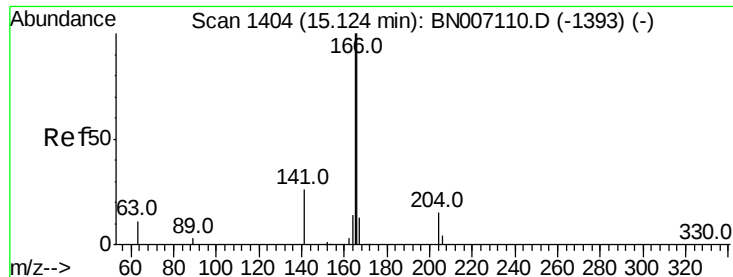


Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E

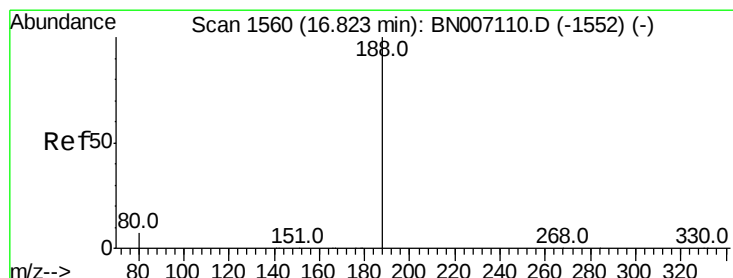
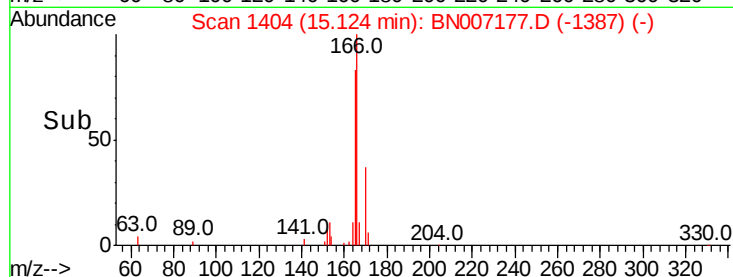
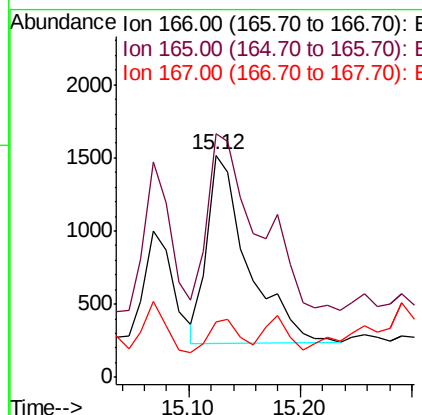
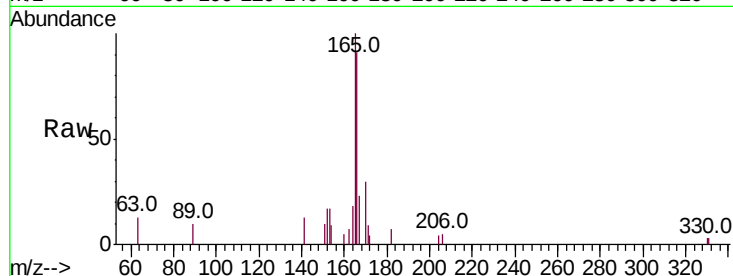




#17
Fluorene
 Concen: 0.044 ng
 RT: 15.12 min Scan# 1404
 Delta R.T. -0.01 min
 Lab File: BN007177.D
 Acq: 14 Aug 2019 23:29

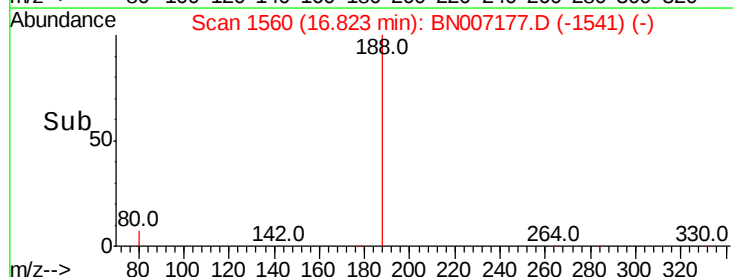
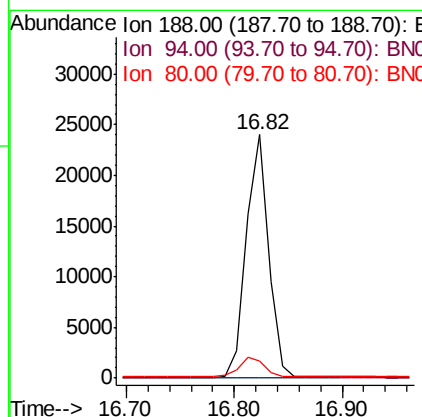
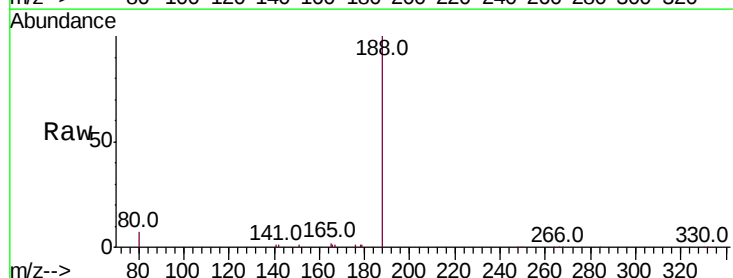
Instrument :
 BNA_N
 ClientSampleId :

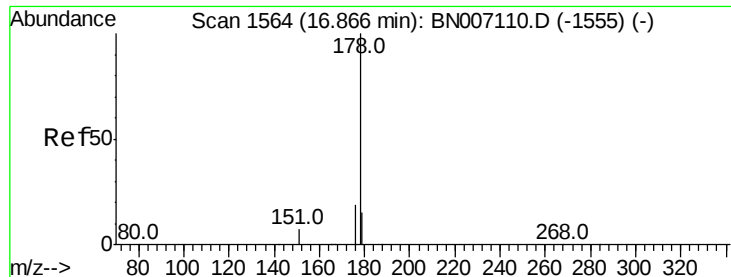
Tot Ion:166 Resp: 3273
 Ion Ratio Lower Upper
 166 100
 165 121.0 77.9 116.9#
 167 13.2 10.9 16.3



#18
Phenanthrene-d10
 Concen: 0.400 ng
 RT: 16.82 min Scan# 1560
 Delta R.T. -0.00 min
 Lab File: BN007177.D
 Acq: 14 Aug 2019 23:29

Tgt Ion:188 Resp: 34206
 Ion Ratio Lower Upper
 188 100
 94 0.0 0.0 0.0
 80 7.2 7.8 11.6#





#22

Phenanthrene

Concen: 0.528 ng

RT: 16.87 min Scan# 1564

Delta R.T. -0.00 min

Lab File: BN007177.D

Acq: 14 Aug 2019 23:29

Instrument :

BNA_N

ClientSampleId :

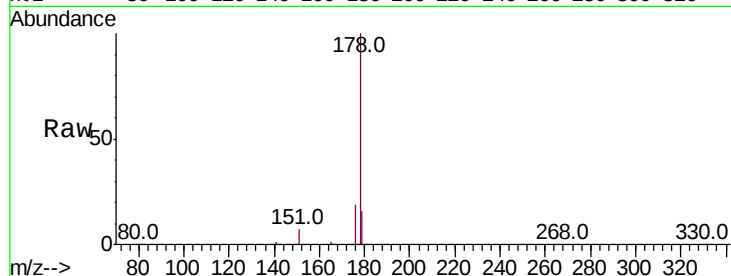
Tot Ion:178 Resp: 54103

Ion Ratio Lower Upper

178 100

176 19.2 15.2 22.8

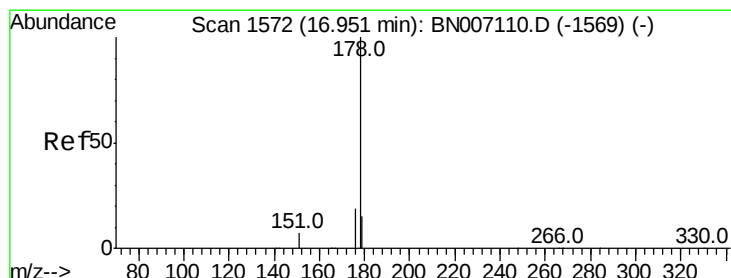
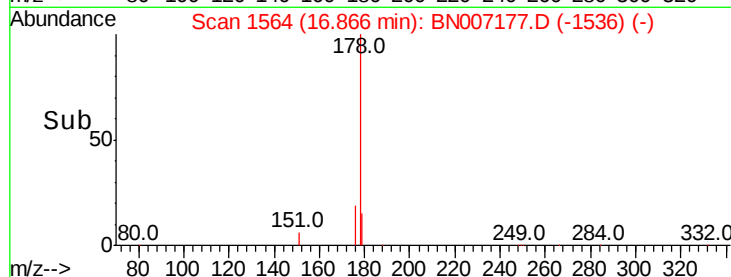
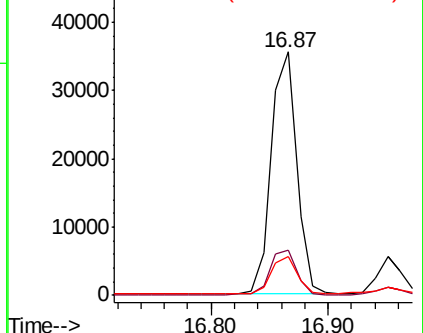
179 15.8 12.3 18.5



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: 0.081 ng

RT: 16.95 min Scan# 1572

Delta R.T. -0.01 min

Lab File: BN007177.D

Acq: 14 Aug 2019 23:29

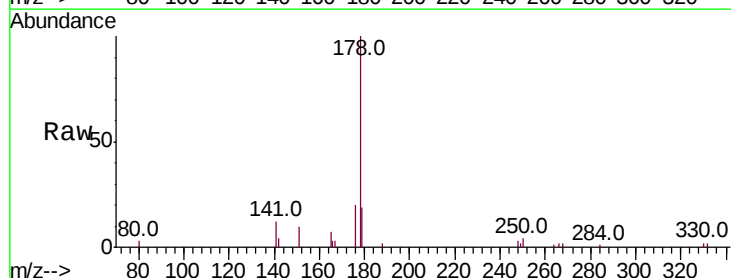
Tgt Ion:178 Resp: 7546

Ion Ratio Lower Upper

178 100

176 18.9 14.6 21.8

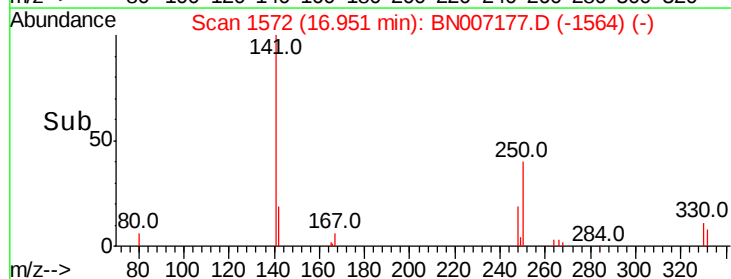
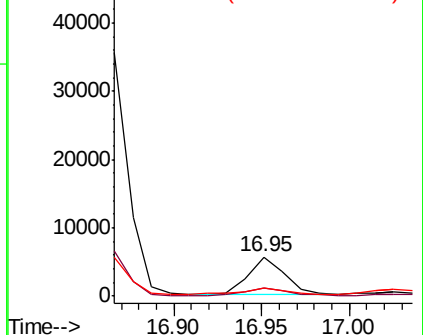
179 18.1 12.5 18.7

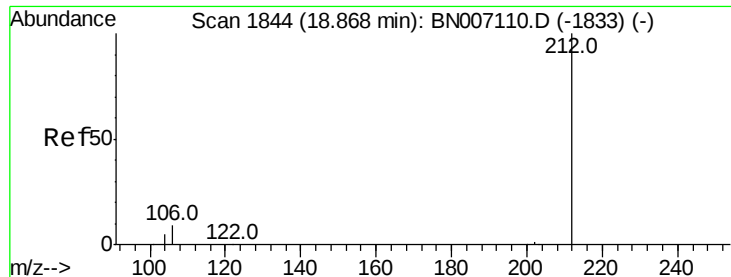


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#24

Fluoranthene-d10

Concen: 0.197 ng

RT: 18.87 min Scan# 1844

Delta R.T. -0.00 min

Lab File: BN007177.D

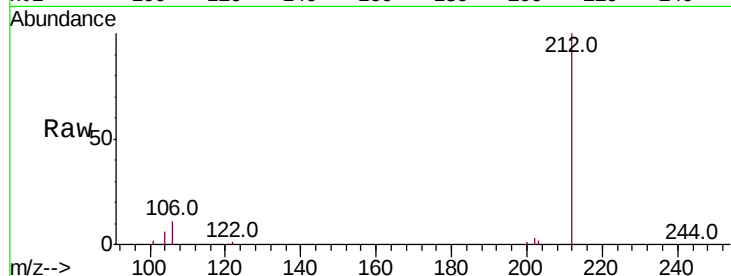
Acq: 14 Aug 2019 23:29

Instrument :

BNA_N

ClientSampleId :

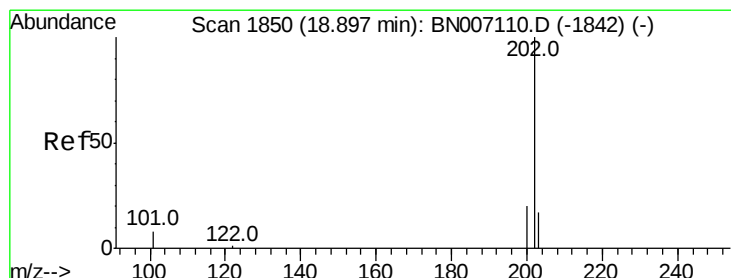
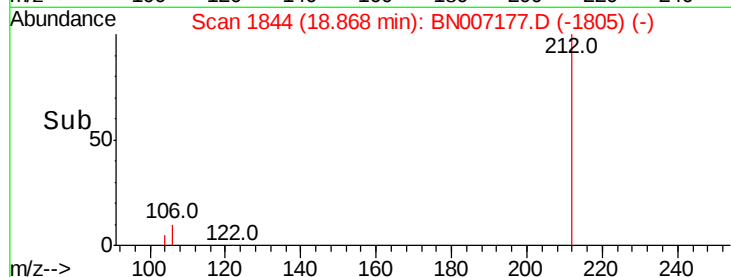
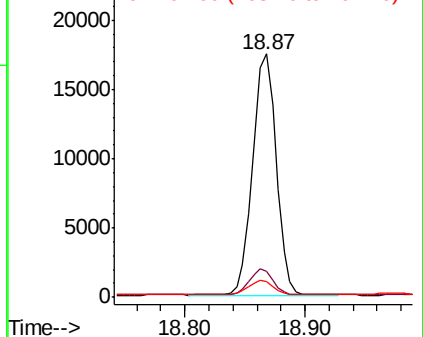
Tot Ion:212	Resp:	23913
Ion Ratio	Lower	Upper
212 100		
106 10.6	8.2	12.2
104 5.9	4.5	6.7



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: 0.445 ng

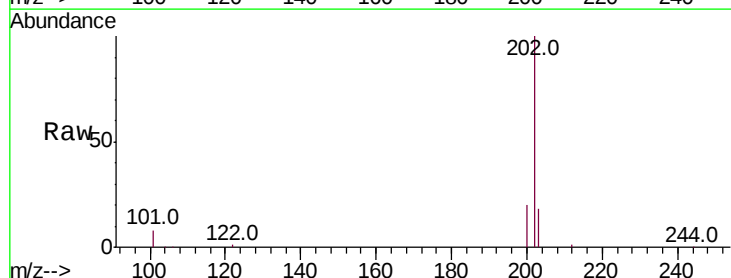
RT: 18.90 min Scan# 1850

Delta R.T. -0.01 min

Lab File: BN007177.D

Acq: 14 Aug 2019 23:29

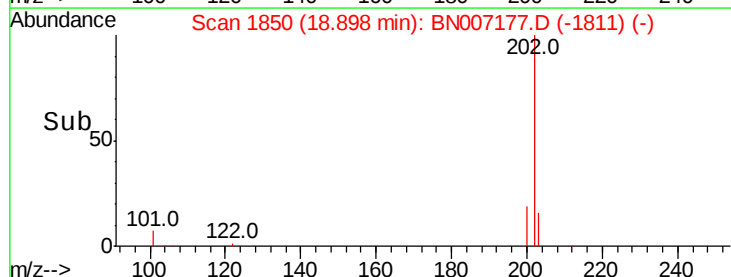
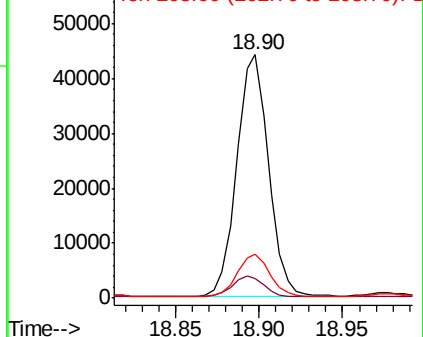
Tgt Ion:202	Resp:	58386
Ion Ratio	Lower	Upper
202 100		
101 9.0	7.0	10.4
203 17.7	13.8	20.8

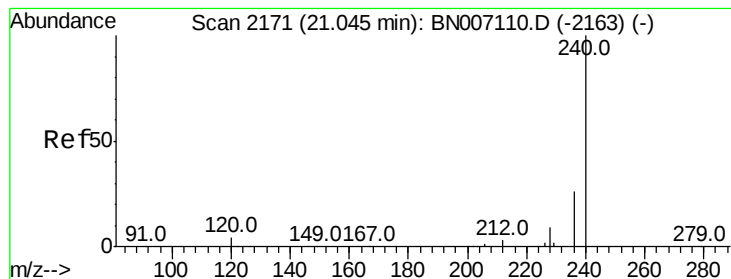


Abundance Ion 202.00 (201.70 to 202.70): E

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: BN007177.D

Acq: 14 Aug 2019 23:29

Instrument :

BNA_N

ClientSampleId :

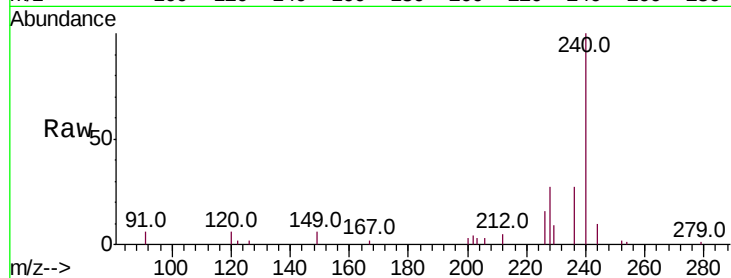
Tot Ion:240 Resp: 33975

Ion Ratio Lower Upper

240 100

120 5.7 4.0 6.0

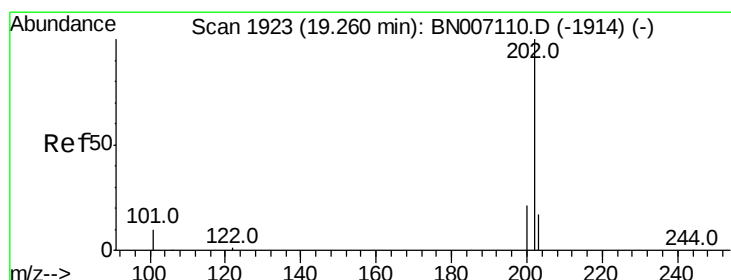
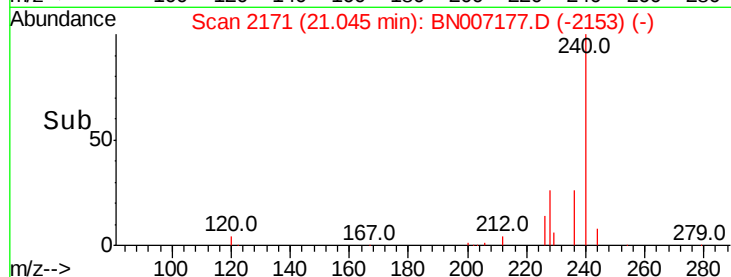
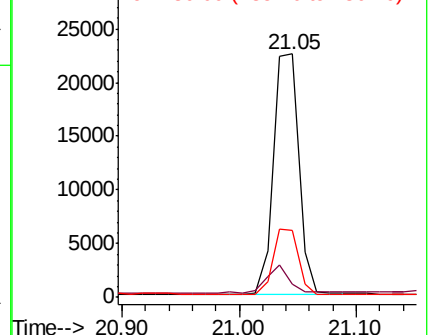
236 27.2 21.3 31.9



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: 0.843 ng

RT: 19.26 min Scan# 1923

Delta R.T. -0.01 min

Lab File: BN007177.D

Acq: 14 Aug 2019 23:29

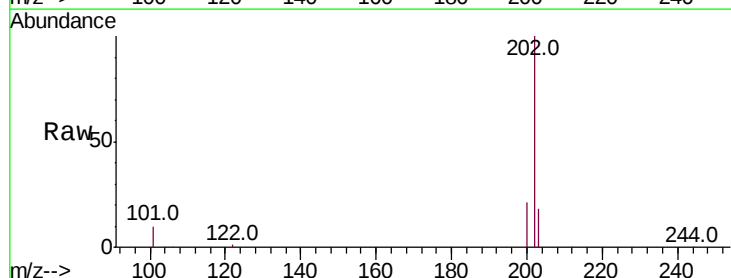
Tgt Ion:202 Resp: 100398

Ion Ratio Lower Upper

202 100

200 20.7 16.6 24.8

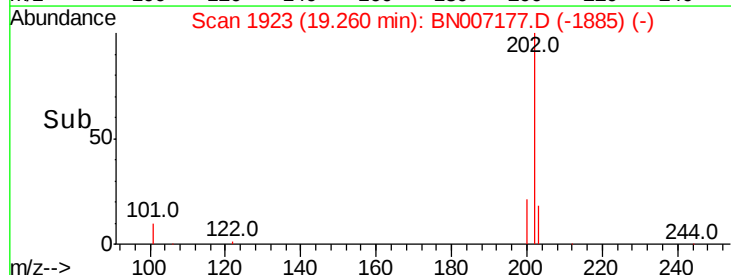
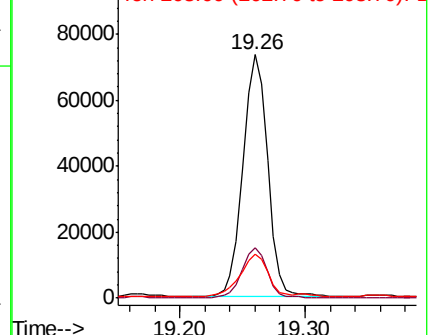
203 20.0 14.0 21.0

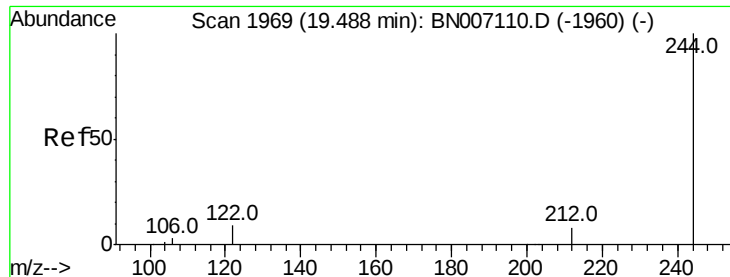


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#28

Terphenyl-d14

Concen: 0.190 ng

RT: 19.48 min Scan# 1968

Delta R.T. -0.01 min

Lab File: BN007177.D

Acq: 14 Aug 2019 23:29

Instrument :

BNA_N

ClientSampleId :

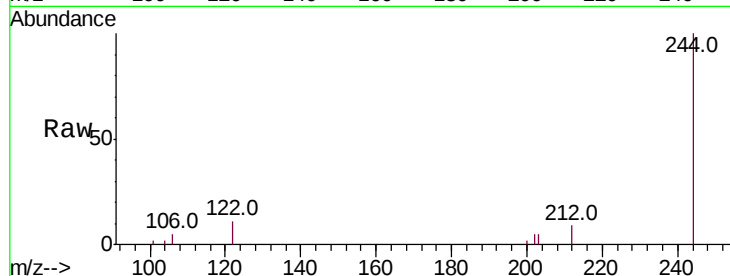
Tot Ion:244 Resp: 17549

Ion Ratio Lower Upper

244 100

212 8.9 6.2 9.2

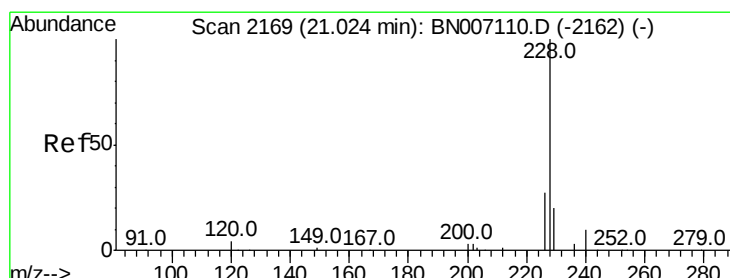
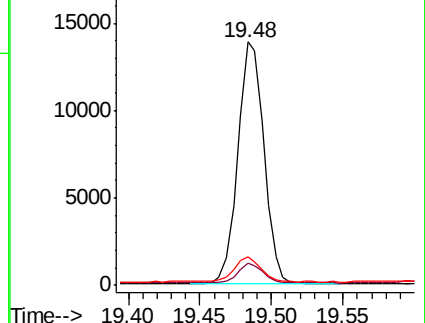
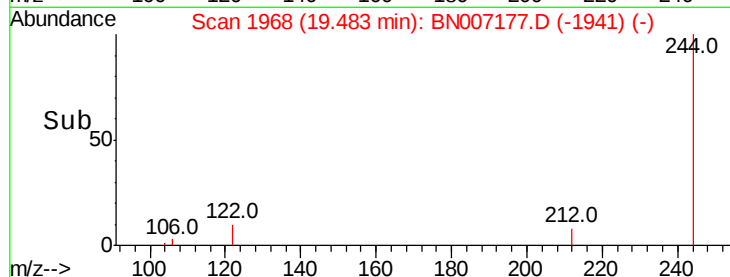
122 11.5 7.4 11.2#



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: 0.408 ng

RT: 21.08 min Scan# 2174

Delta R.T. 0.04 min

Lab File: BN007177.D

Acq: 14 Aug 2019 23:29

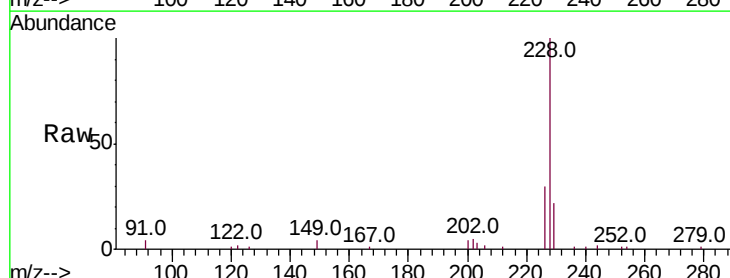
Tgt Ion:228 Resp: 50655

Ion Ratio Lower Upper

228 100

226 30.1 21.8 32.6

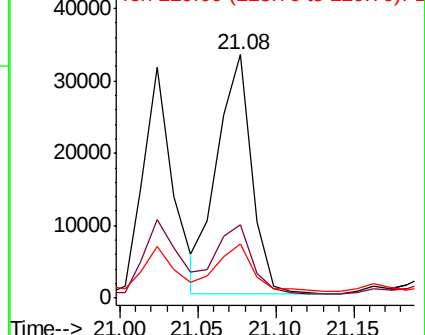
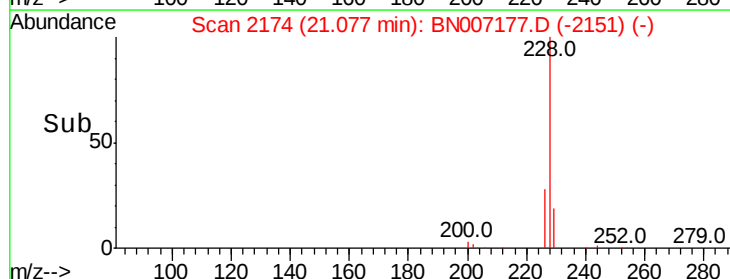
229 22.4 15.6 23.4

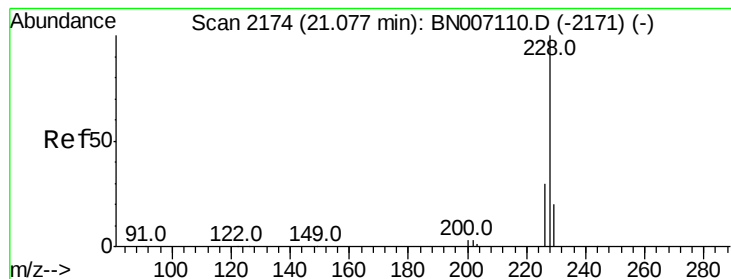


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#30

Chrysene

Concen: 0.417 ng

RT: 21.08 min Scan# 2174

Delta R.T. -0.01 min

Lab File: BN007177.D

Acq: 14 Aug 2019 23:29

Instrument :

BNA_N

ClientSampleId :

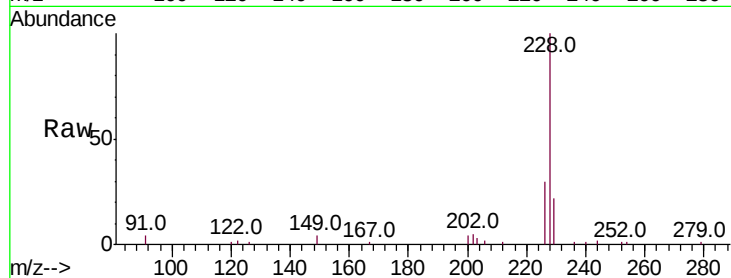
Tot Ion:228 Resp: 50331

Ion Ratio Lower Upper

228 100

226 30.1 23.8 35.6

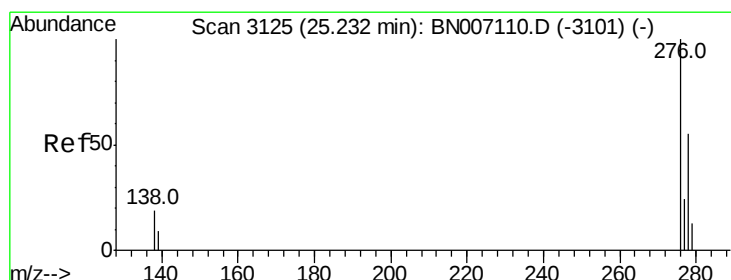
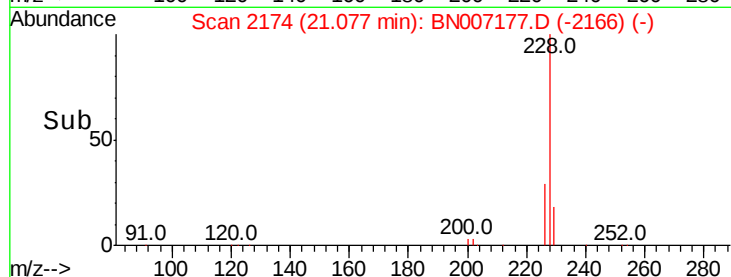
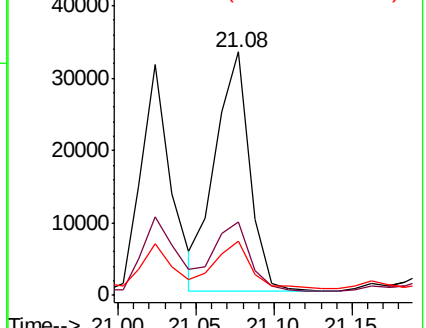
229 22.4 15.7 23.5



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: 0.154 ng

RT: 25.23 min Scan# 3124

Delta R.T. -0.02 min

Lab File: BN007177.D

Acq: 14 Aug 2019 23:29

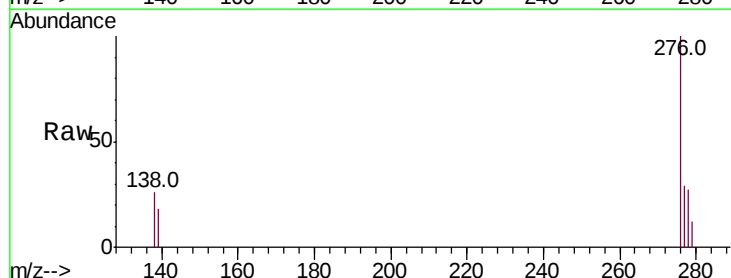
Tgt Ion:276 Resp: 20534

Ion Ratio Lower Upper

276 100

138 21.9 16.0 24.0

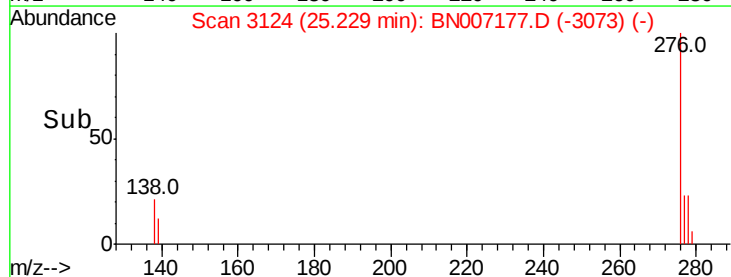
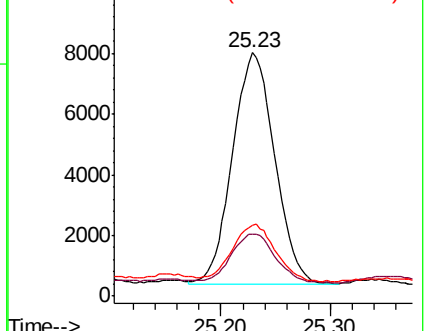
277 24.9 19.9 29.9

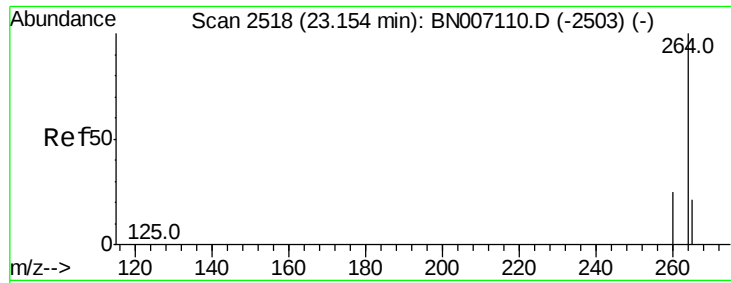


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E

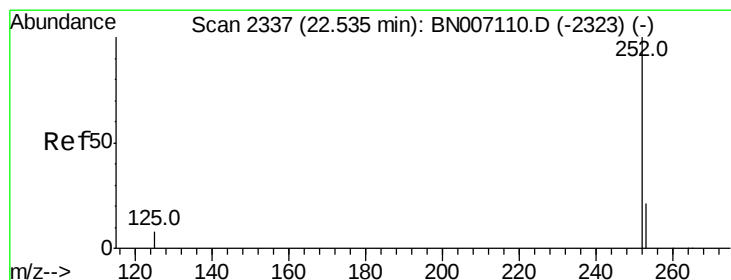
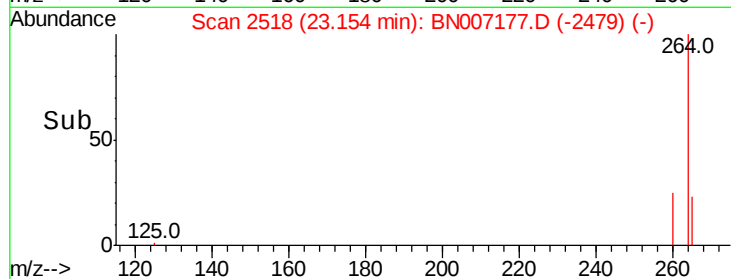
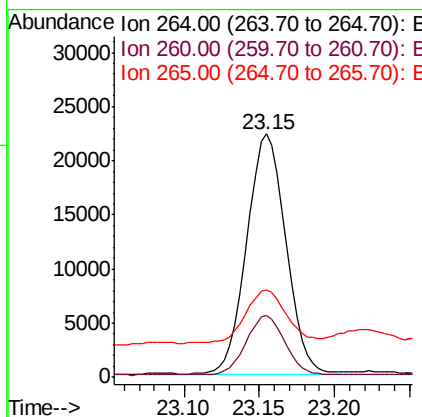
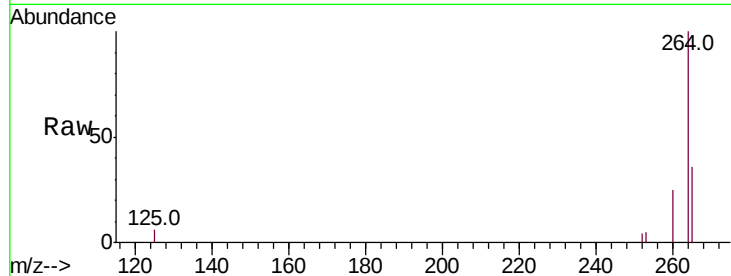




#32
 Pervlene-d12
 Concen: 0.400 ng
 RT: 23.15 min Scan# 2518
 Delta R.T. -0.02 min
 Lab File: BN007177.D
 Acq: 14 Aug 2019 23:29

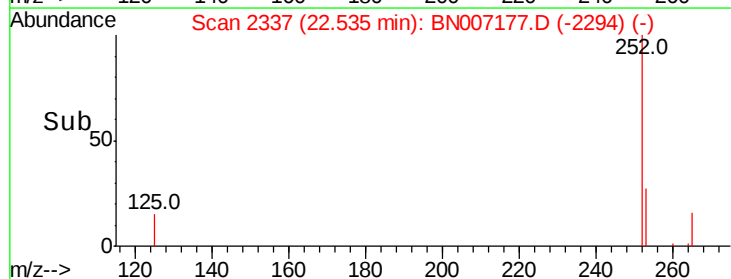
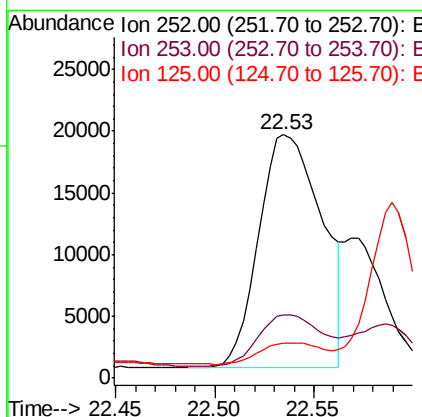
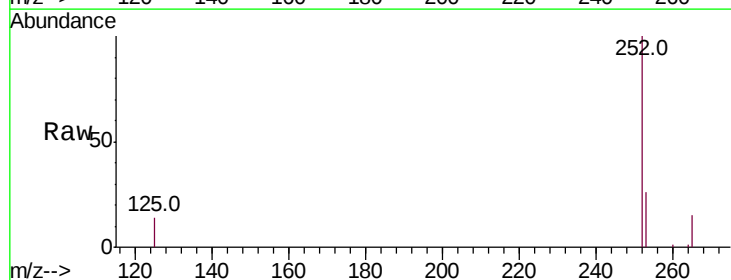
Instrument :
 BNA_N
 ClientSampleId :

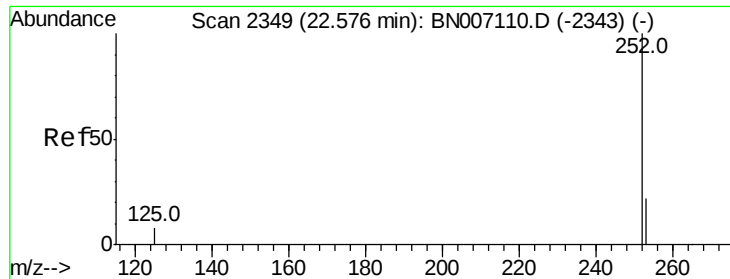
Tot Ion:264 Resp: 39355
 Ion Ratio Lower Upper
 264 100
 260 25.4 19.8 29.8
 265 35.9 26.2 39.4



#33
 Benzo(b)fluoranthene
 Concen: 0.310 ng
 RT: 22.53 min Scan# 2337
 Delta R.T. -0.01 min
 Lab File: BN007177.D
 Acq: 14 Aug 2019 23:29

Tgt Ion:252 Resp: 41882
 Ion Ratio Lower Upper
 252 100
 253 26.2 18.2 27.2
 125 14.4 7.4 11.0#





#34

Benzo(k)fluoranthene

Concen: 0.314 ng

RT: 22.53 min Scan# 2337

Delta R.T. -0.05 min

Lab File: BN007177.D

Acq: 14 Aug 2019 23:29

Instrument :

BNA_N

ClientSampleId :

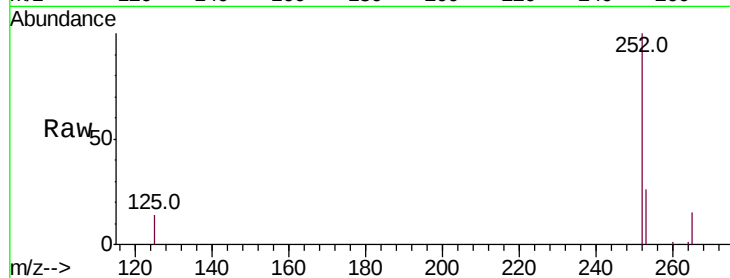
Tot Ion:252 Resp: 41882

Ion Ratio Lower Upper

252 100

253 26.2 18.1 27.1

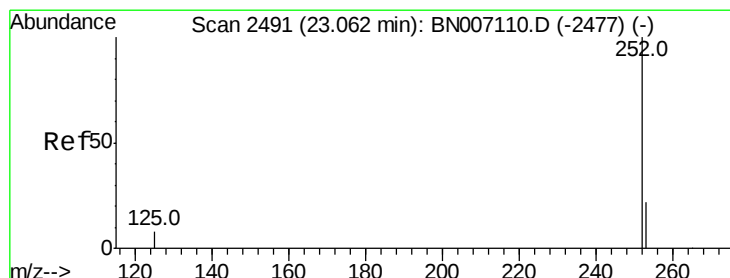
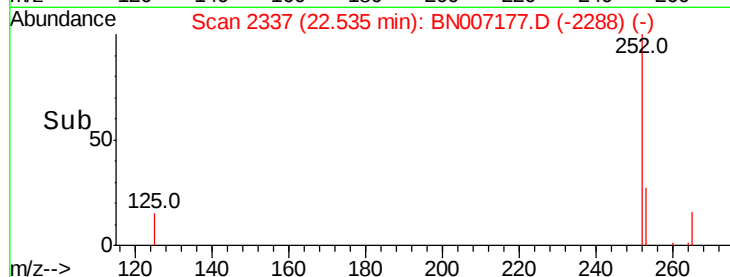
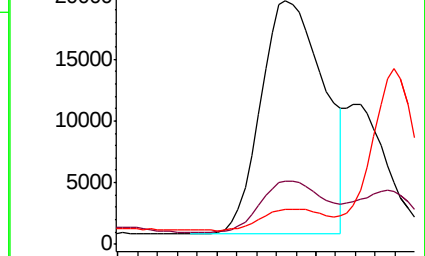
125 14.4 7.4 11.0#



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: 0.285 ng

RT: 23.06 min Scan# 2491

Delta R.T. -0.02 min

Lab File: BN007177.D

Acq: 14 Aug 2019 23:29

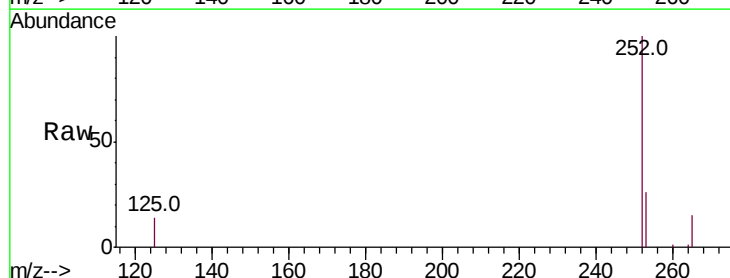
Tgt Ion:252 Resp: 34858

Ion Ratio Lower Upper

252 100

253 25.8 18.5 27.7

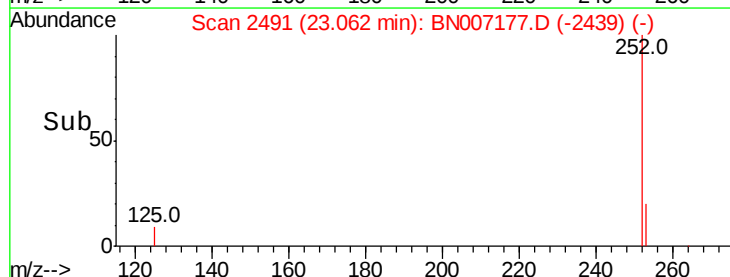
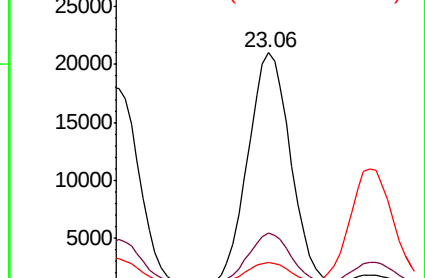
125 14.0 8.2 12.4#

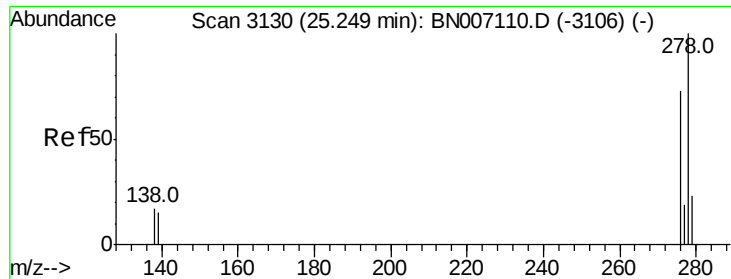


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#36

Dibenzo(a,h)anthracene

Concen: 0.053 ng

RT: 25.24 min Scan# 3127

Delta R.T. -0.03 min

Lab File: BN007177.D

Acq: 14 Aug 2019 23:29

Instrument :

BNA_N

ClientSampleId :

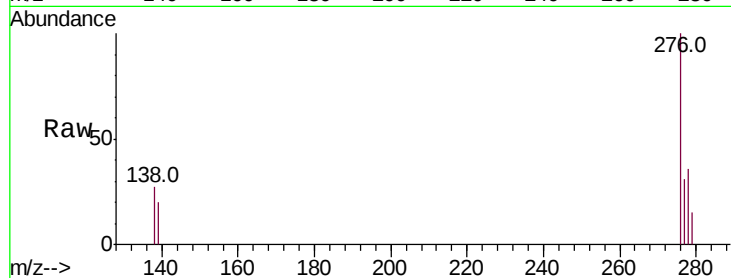
Tot Ion:278 Resp: 6441

Ion Ratio Lower Upper

278 100

139 57.3 11.3 16.9#

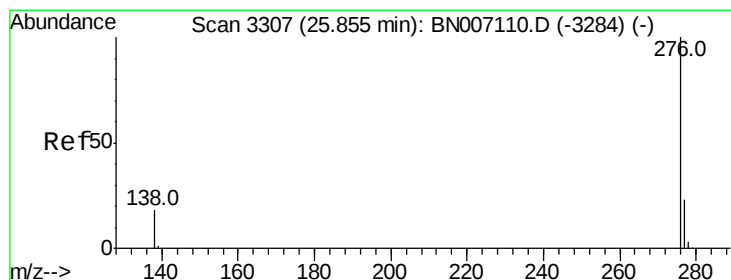
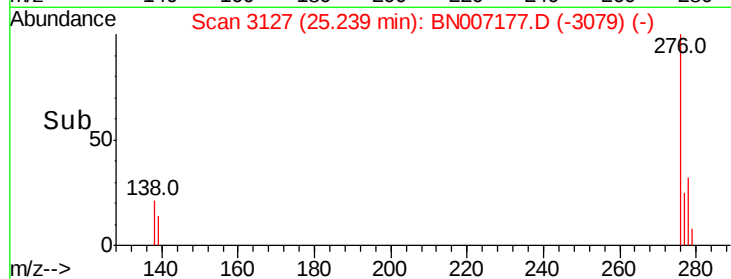
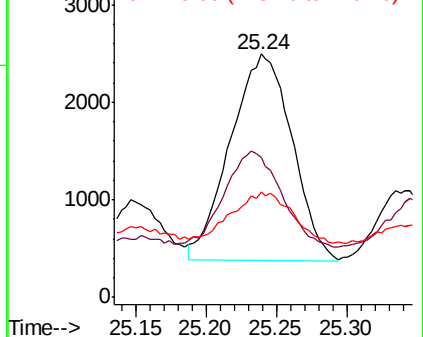
279 43.5 19.3 28.9#



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: 0.202 ng

RT: 25.86 min Scan# 3308

Delta R.T. -0.02 min

Lab File: BN007177.D

Acq: 14 Aug 2019 23:29

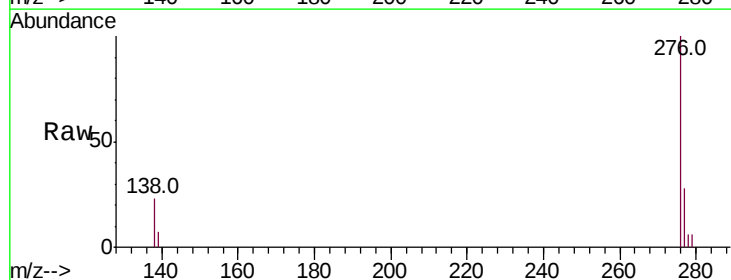
Tgt Ion:276 Resp: 25307

Ion Ratio Lower Upper

276 100

277 27.8 19.8 29.8

138 22.7 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

