

Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN032519\
 Data File : BN004968.D
 Acq On : 25 Mar 2019 19:29
 Operator : JU/SJ
 Sample : K2015-14 5X
 Misc :
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 PST-025-B029-031919

Quant Time: Mar 26 04:27:00 2019

Quant Method : Z:\SVOASRV\HPCHEM1\BNA N\METHODS\8270-SIM-BN032019.M

Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

QLast Update : Wed Mar 20 16:06:20 2019

Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.69	152	4480	0.40	ng	0.00
7) Naphthalene-d8	10.47	136	17717	0.40	ng	-0.03
13) Acenaphthene-d10	14.33	164	8373	0.40	ng	-0.01
19) Phenanthrene-d10	17.08	188	15999	0.40	ng	-0.01
27) Chrysene-d12	21.29	240	18083	0.40	ng	0.00
34) Perylene-d12	23.54	264	20060	0.40	ng	-0.01

System Monitoring Compounds

4) 2-Fluorophenol	5.28	112	552	0.05	ng	0.00
5) Phenol-d6	6.87	99	681	0.04	ng	0.00
8) Nitrobenzene-d5	8.86	82	573	0.05	ng	-0.01
11) 2-Methylnaphthalene-d10	12.07	152	1260	0.04	ng	-0.01
14) 2,4,6-Tribromophenol	15.84	330	229	0.04	ng	-0.01
15) 2-Fluorobiphenyl	12.95	172	1652	0.05	ng	-0.01
25) Fluoranthene-d10	19.12	212	1864	0.03	ng	0.00
29) Terphenyl-d14	19.72	244	1472	0.04	ng	0.00

Target Compounds

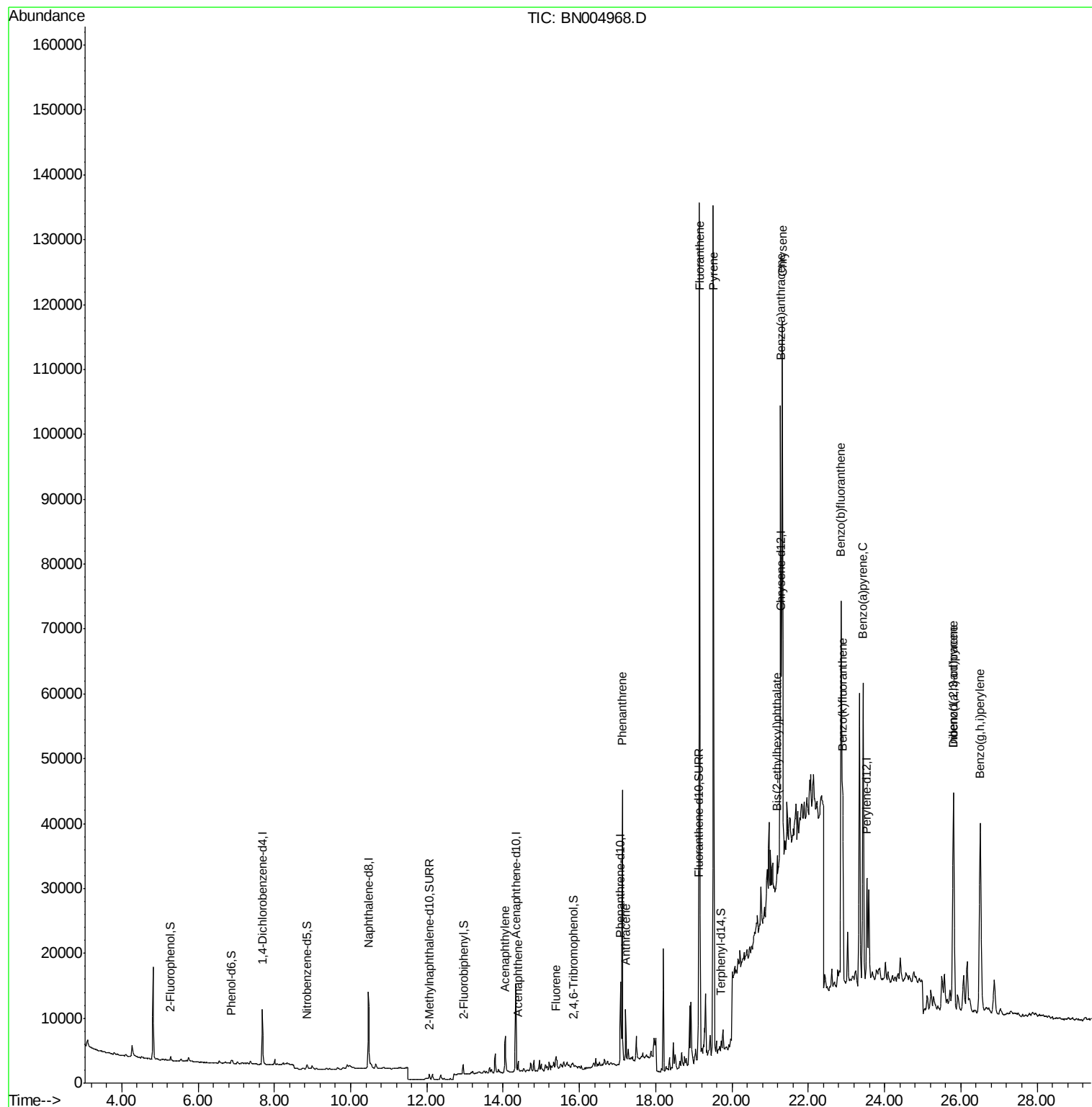
						Qvalue
16) Acenaphthylene	14.05	152	7625	0.177	ng	99
17) Acenaphthene	14.39	154	879	0.031	ng	95
18) Fluorene	15.38	166	1740	0.044	ng	# 83
23) Phenanthrene	17.12	178	41459	0.803	ng	99
24) Anthracene	17.22	178	8617	0.187	ng	100
26) Fluoranthene	19.15	202	115712	1.743	ng	# 91
28) Pyrene	19.51	202	122560	2.223	ng	# 95
30) Benzo(a)anthracene	21.27	228	57344	0.967	ng	# 91
31) Chrysene	21.32	228	76233	1.220	ng	# 94
32) Bis(2-ethylhexyl)phthalate	21.18	149	2303	0.097	ng	# 78
33) Indeno(1,2,3-cd)pyrene	25.81	276	53513	0.592	ng	98
35) Benzo(b)fluoranthene	22.86	252	98386	1.356	ng	# 87
36) Benzo(k)fluoranthene	22.90	252	34872m	0.488	ng	
37) Benzo(a)pyrene	23.44	252	63238	0.950	ng	# 83
38) Dibenzo(a,h)anthracene	25.81	278	14455	0.187	ng	# 19
39) Benzo(g,h,i)perylene	26.51	276	61874	0.788	ng	# 86

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

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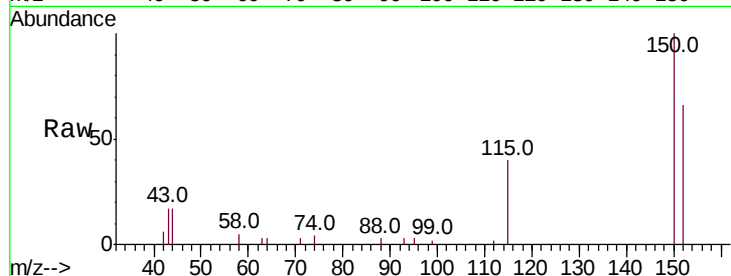


#1

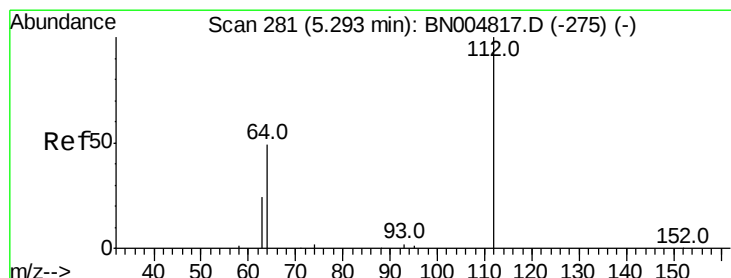
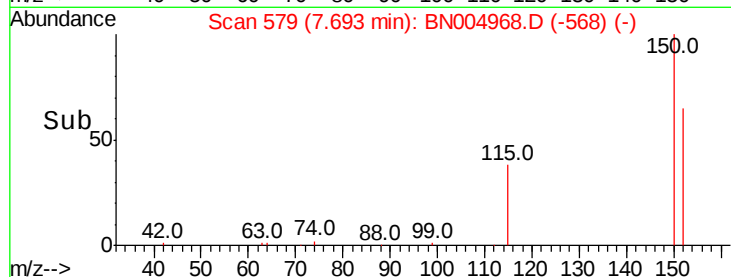
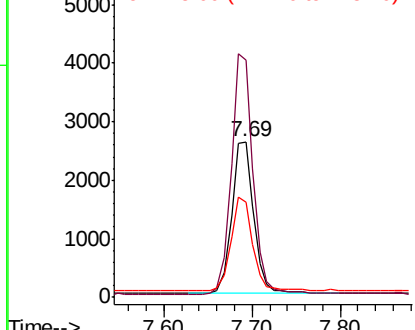
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.69 min Scan# 579
Delta R.T. -0.01 min
Lab File: BN004968.D
Acq: 25 Mar 2019 19:29

Instrument :
BNA_N
ClientSampleId :
PST-025-B029-031919

Tot Ion:152 Resp: 4480
Ion Ratio Lower Upper
152 100
150 152.1 126.2 189.4
115 61.3 52.6 79.0



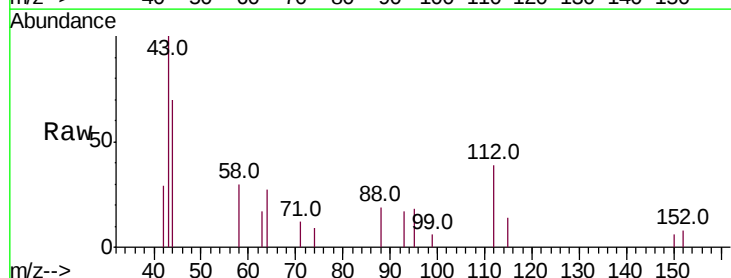
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



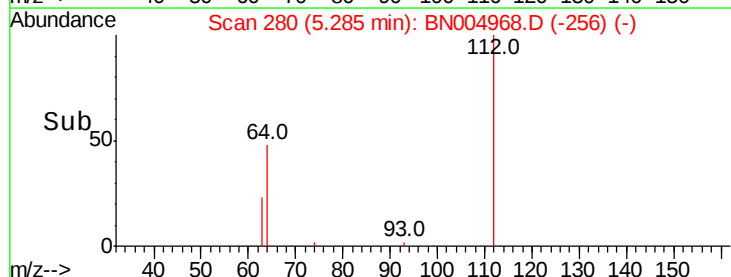
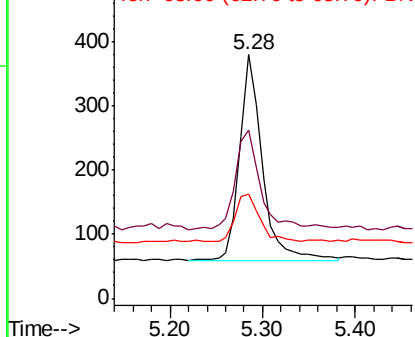
#4

2-Fluorophenol
Concen: 0.045 ng
RT: 5.28 min Scan# 280
Delta R.T. -0.01 min
Lab File: BN004968.D
Acq: 25 Mar 2019 19:29

Tgt Ion:112 Resp: 552
Ion Ratio Lower Upper
112 100
64 52.2 40.0 60.0
63 24.8 20.2 30.2



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





#5

Phenol-d6

Concen: 0.045 ng

RT: 6.87 min Scan# 477

Delta R.T. -0.01 min

Lab File: BN004968.D

Acq: 25 Mar 2019 19:29

Instrument :

BNA_N

ClientSampleId :

PST-025-B029-031919

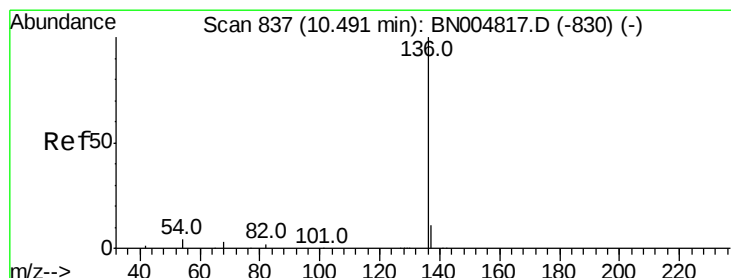
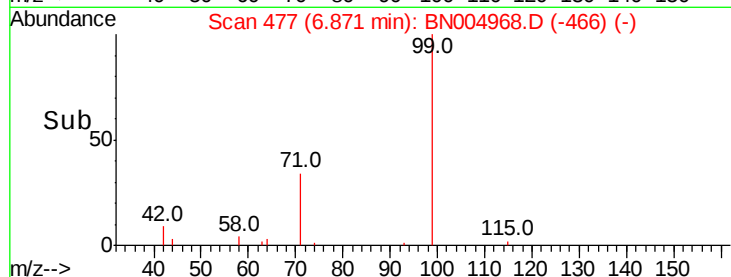
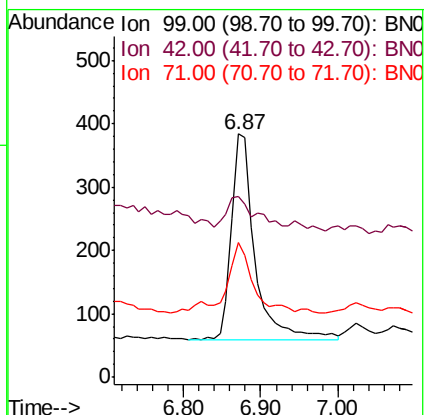
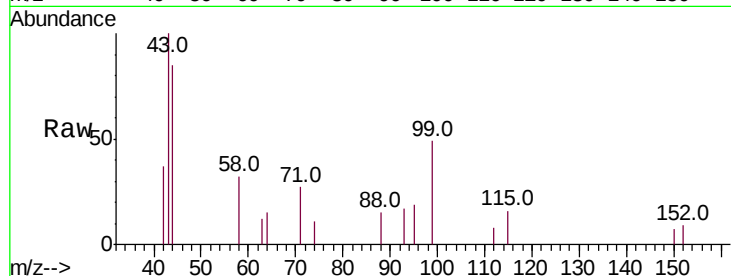
Tot Ion: 99 Resp: 681

Ion Ratio Lower Upper

99 100

42 17.8 12.7 19.1

71 30.7 26.6 40.0



#7

Naphthalene-d8

Concen: 0.400 ng

RT: 10.47 min Scan# 835

Delta R.T. -0.03 min

Lab File: BN004968.D

Acq: 25 Mar 2019 19:29

Tgt Ion: 136 Resp: 17717

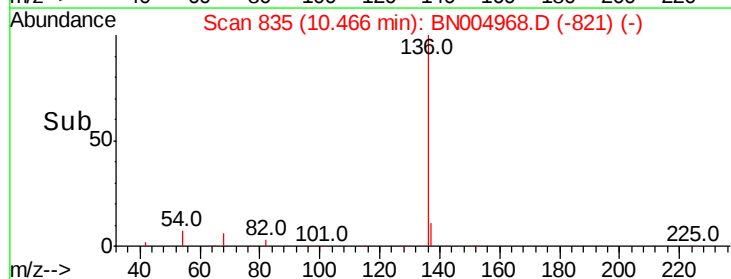
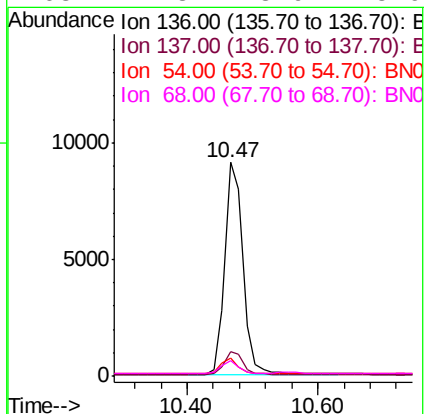
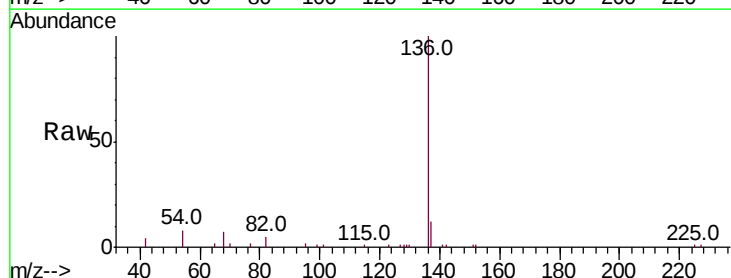
Ion Ratio Lower Upper

136 100

137 11.6 9.6 14.4

54 8.2 4.2 6.2#

68 7.3 3.9 5.9#





#8

Nitrobenzene-d5

Concen: 0.049 ng

RT: 8.86 min Scan# 708

Delta R.T. -0.01 min

Lab File: BN004968.D

Acq: 25 Mar 2019 19:29

Instrument :

BNA_N

ClientSampleId :

PST-025-B029-031919

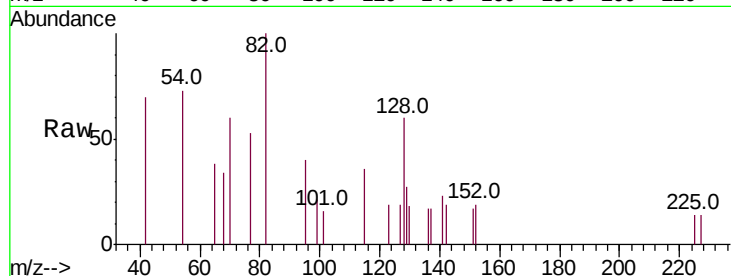
Tot Ion: 82 Resp: 573

Ion Ratio Lower Upper

82 100

128 60.5 43.0 64.6

54 73.2 35.3 52.9#



Abundance Ion 82.00 (81.70 to 82.70): BN004817.D (-704) (-)

Ion 128.00 (127.70 to 128.70): BN004817.D (-704) (-)

Ion 54.00 (53.70 to 54.70): BN004817.D (-704) (-)

8.86

400

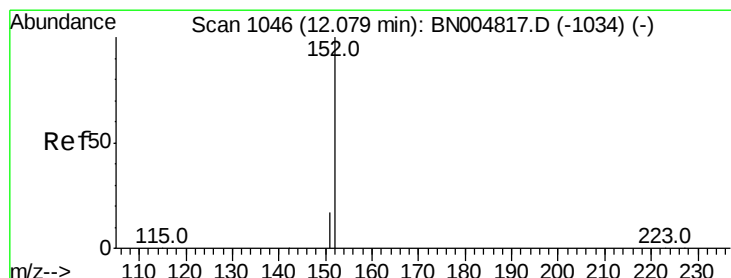
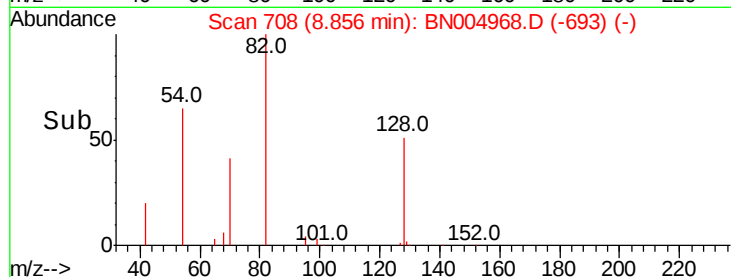
300

200

100

0

Time--> 8.75 8.80 8.85 8.90 8.95



#11

2-Methylnaphthalene-d10

Concen: 0.041 ng

RT: 12.07 min Scan# 1043

Delta R.T. -0.01 min

Lab File: BN004968.D

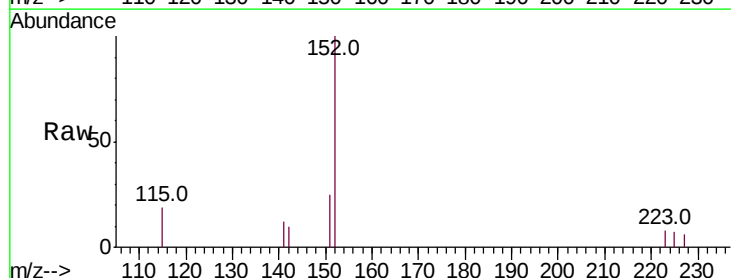
Acq: 25 Mar 2019 19:29

Tgt Ion: 152 Resp: 1260

Ion Ratio Lower Upper

152 100

151 19.0 15.5 23.3



Abundance Ion 152.00 (151.70 to 152.70): BN004817.D (-1034) (-)

Ion 151.00 (150.70 to 151.70): BN004817.D (-1034) (-)

12.07

800

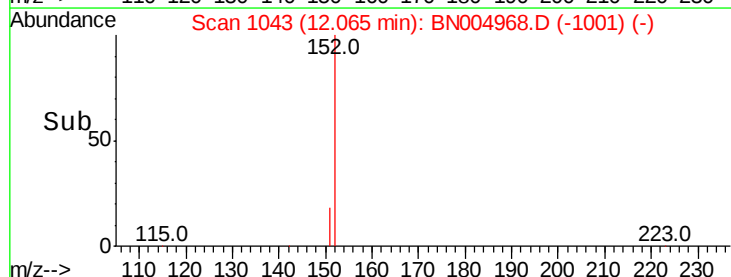
600

400

200

0

Time--> 12.00 12.10





#13

Acenaphthene-d10

Concen: 0.400 ng

RT: 14.33 min Scan# 1333

Delta R.T. -0.01 min

Lab File: BN004968.D

Acq: 25 Mar 2019 19:29

Instrument :

BNA_N

ClientSampleId :

PST-025-B029-031919

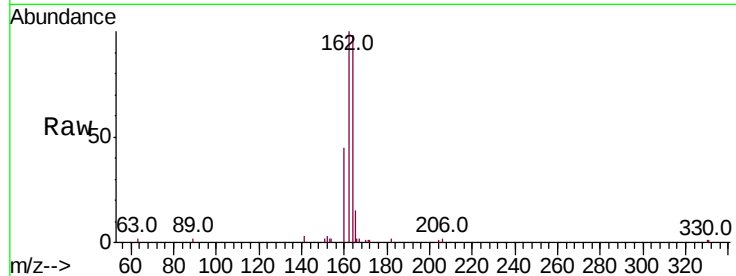
Tot Ion:164 Resp: 8373

Ion Ratio Lower Upper

164 100

162 102.1 81.9 122.9

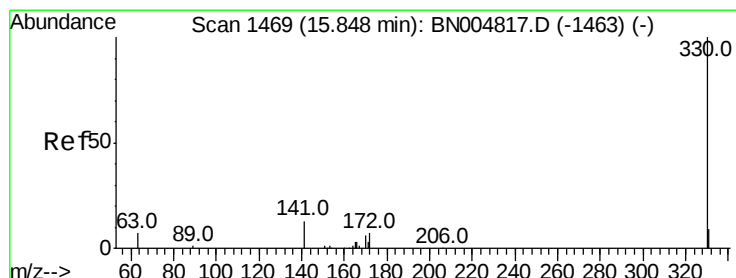
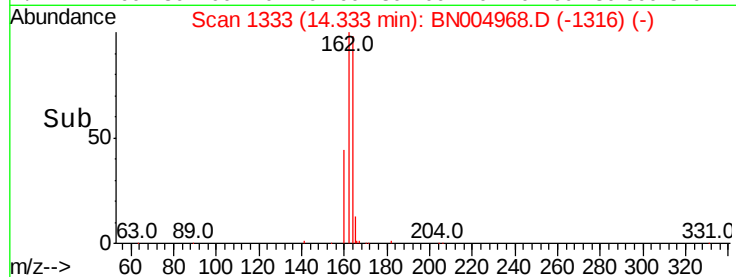
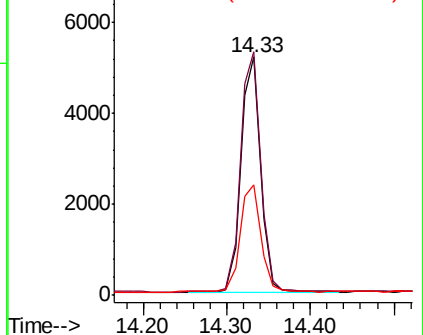
160 46.2 36.6 54.8



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



#14

2,4,6-Tribromophenol

Concen: 0.040 ng

RT: 15.84 min Scan# 1468

Delta R.T. -0.01 min

Lab File: BN004968.D

Acq: 25 Mar 2019 19:29

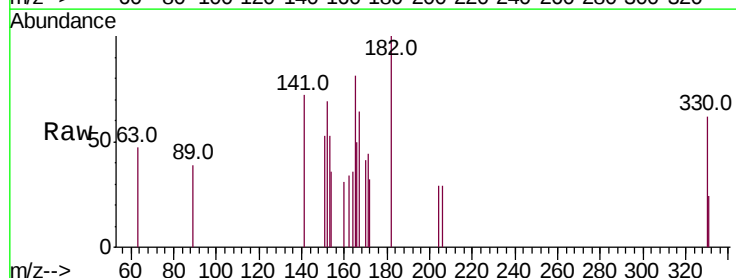
Tgt Ion:330 Resp: 229

Ion Ratio Lower Upper

330 100

332 0.0 0.0 0.0

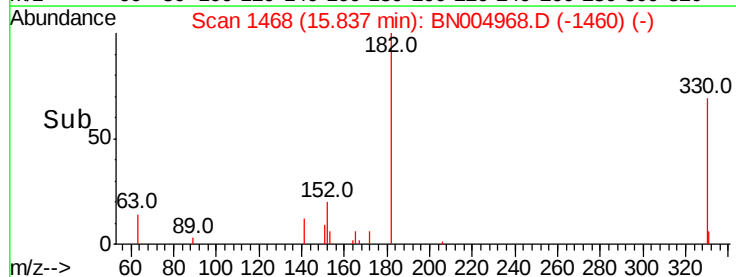
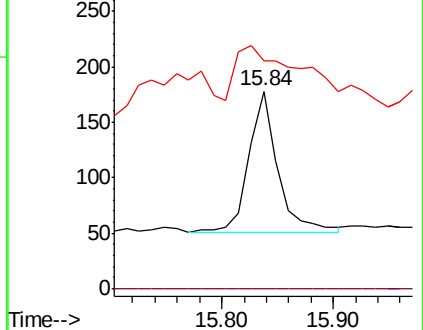
141 109.2 20.9 31.3#

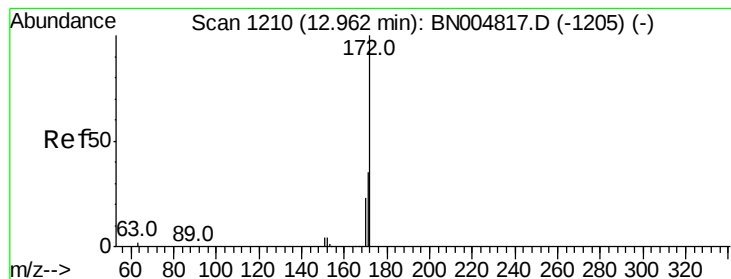


Abundance Ion 330.00 (329.70 to 330.70): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E





#15

2-Fluorobiphenyl

Concen: 0.048 ng

RT: 12.95 min Scan# 1209

Delta R.T. -0.01 min

Lab File: BN004968.D

Acq: 25 Mar 2019 19:29

Instrument :

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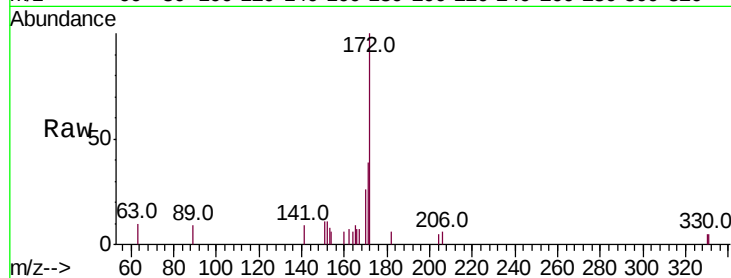
Tot Ion:172 Resp: 1652

Ion Ratio Lower Upper

172 100

171 38.8 28.7 43.1

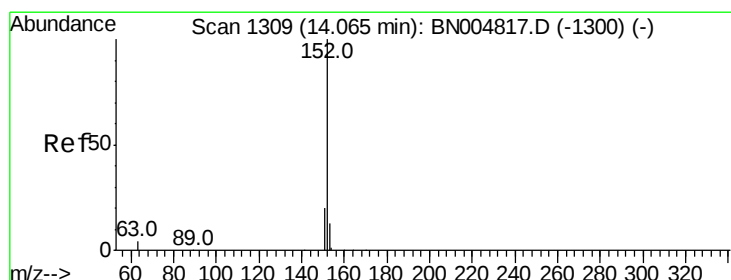
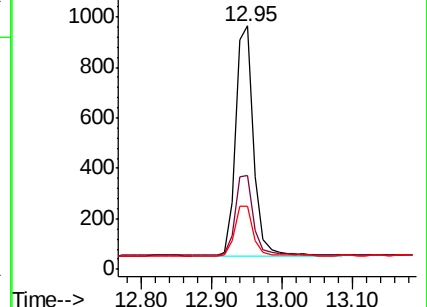
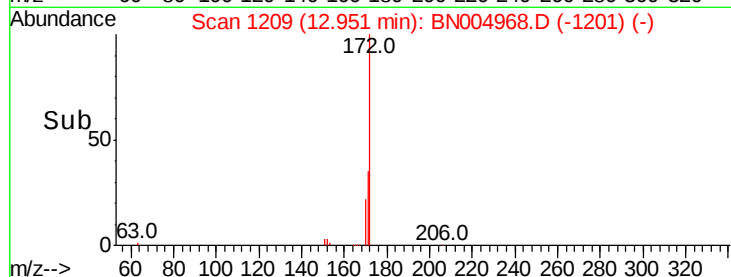
170 25.8 18.7 28.1



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



#16

Acenaphthylene

Concen: 0.177 ng

RT: 14.05 min Scan# 1308

Delta R.T. -0.01 min

Lab File: BN004968.D

Acq: 25 Mar 2019 19:29

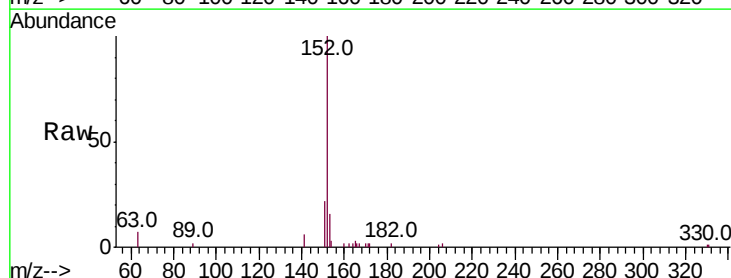
Tgt Ion:152 Resp: 7625

Ion Ratio Lower Upper

152 100

151 20.6 16.1 24.1

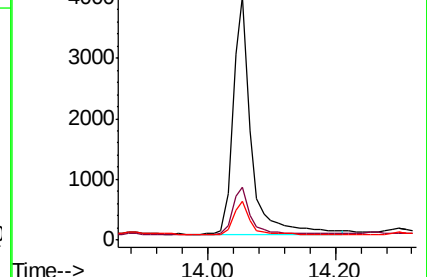
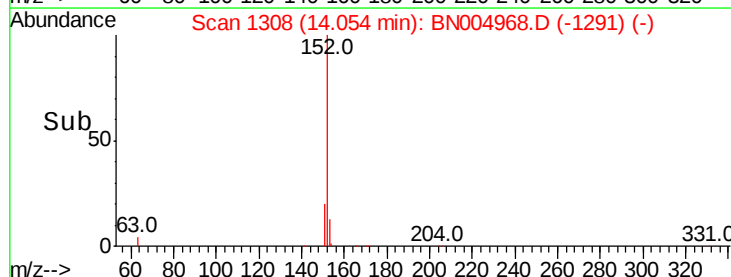
153 13.7 10.5 15.7

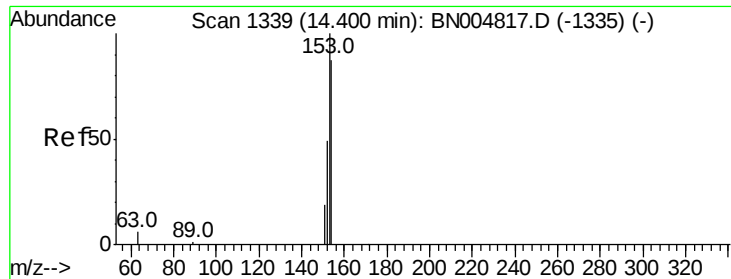


Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

Ion 153.00 (152.70 to 153.70): E





#17

Acenaphthene

Concen: 0.031 ng

RT: 14.39 min Scan# 1338

Delta R.T. -0.01 min

Lab File: BN004968.D

Acq: 25 Mar 2019 19:29

Instrument :

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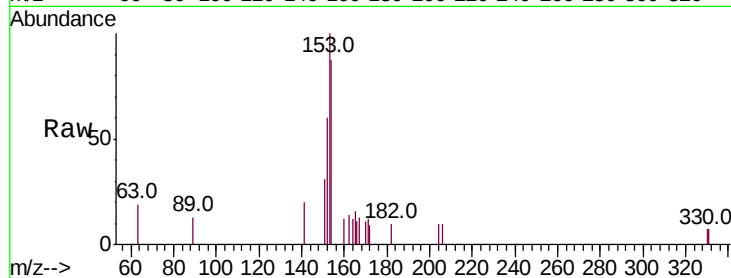
Tot Ion:154 Resp: 879

Ion Ratio Lower Upper

154 100

153 117.5 91.4 137.2

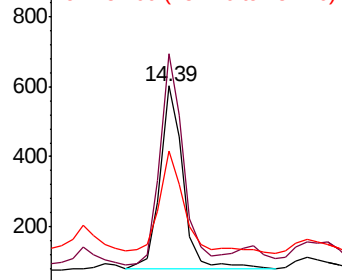
152 62.0 44.2 66.2



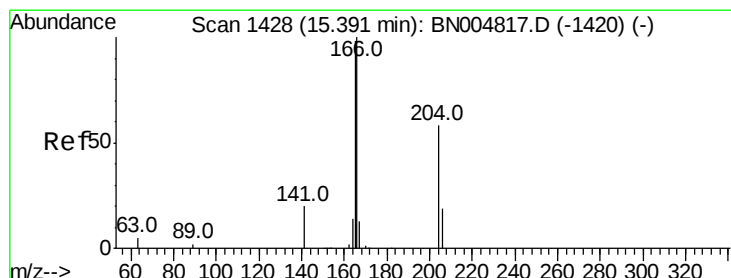
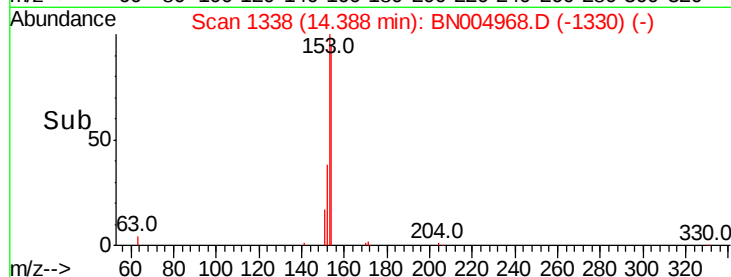
Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E



Time-->



#18

Fluorene

Concen: 0.044 ng

RT: 15.38 min Scan# 1427

Delta R.T. -0.01 min

Lab File: BN004968.D

Acq: 25 Mar 2019 19:29

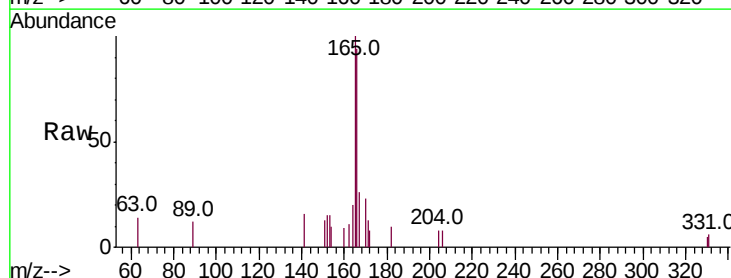
Tgt Ion:166 Resp: 1740

Ion Ratio Lower Upper

166 100

165 112.7 78.2 117.4

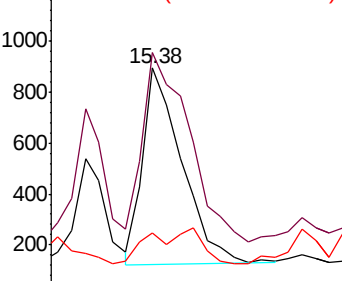
167 0.0 11.0 16.4#



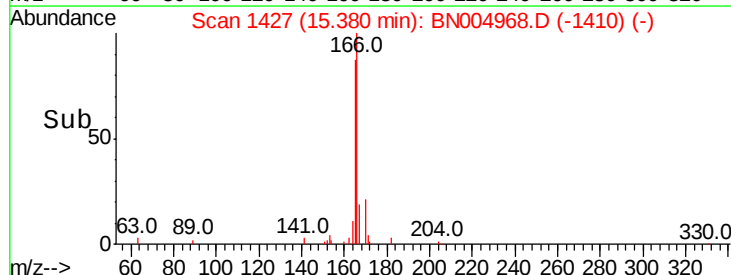
Abundance Ion 166.00 (165.70 to 166.70): E

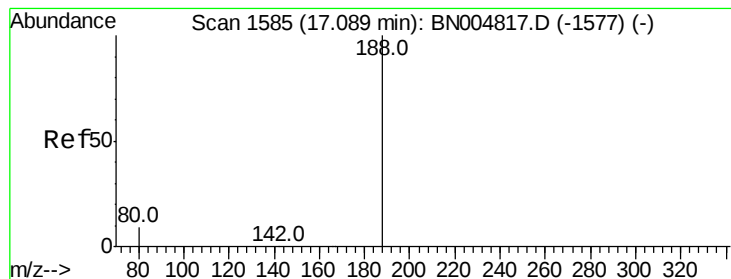
Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E



Time-->





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.08 min Scan# 1584

Delta R.T. -0.01 min

Lab File: BN004968.D

Acq: 25 Mar 2019 19:29

Instrument :

BNA_N

ClientSampleId :

PST-025-B029-031919

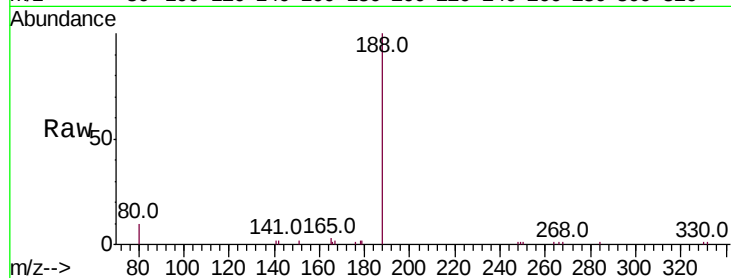
Tot Ion:188 Resp: 15999

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

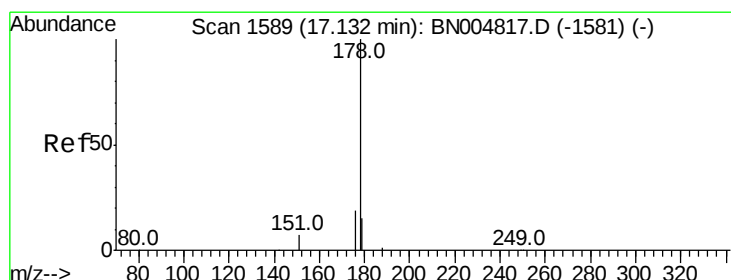
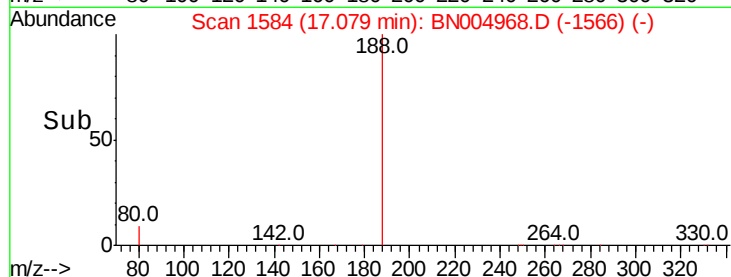
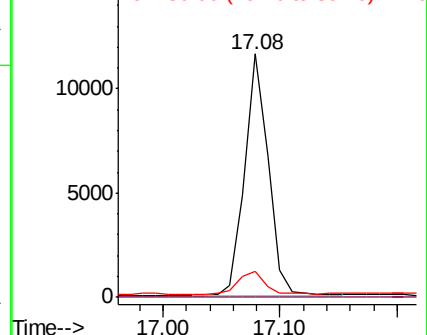
80 10.5 7.4 11.2



Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BNC

Ion 80.00 (79.70 to 80.70): BNC



#23

Phenanthrene

Concen: 0.803 ng

RT: 17.12 min Scan# 1588

Delta R.T. -0.01 min

Lab File: BN004968.D

Acq: 25 Mar 2019 19:29

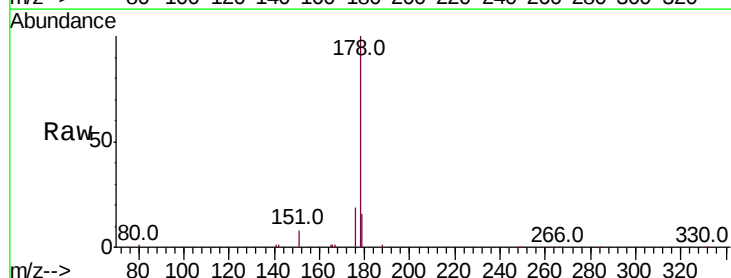
Tgt Ion:178 Resp: 41459

Ion Ratio Lower Upper

178 100

176 18.8 14.9 22.3

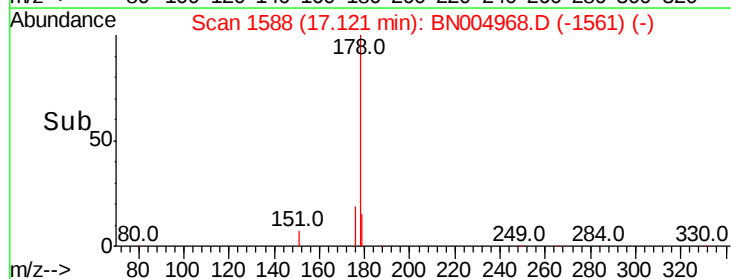
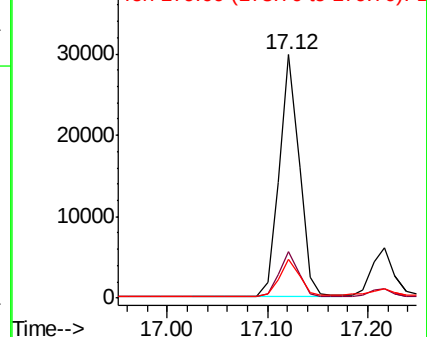
179 15.9 12.1 18.1

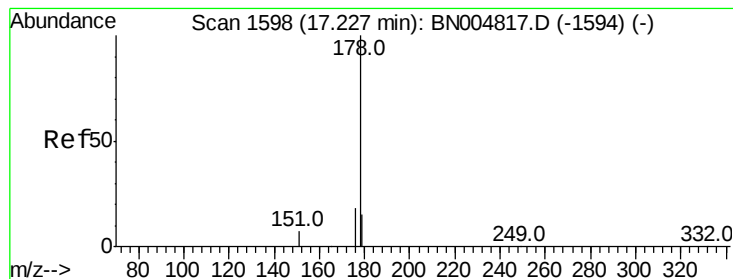


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#24

Anthracene

Concen: 0.187 ng

RT: 17.22 min Scan# 1597

Delta R.T. -0.01 min

Lab File: BN004968.D

Acq: 25 Mar 2019 19:29

Instrument :

BNA_N

ClientSampleId :

PST-025-B029-031919

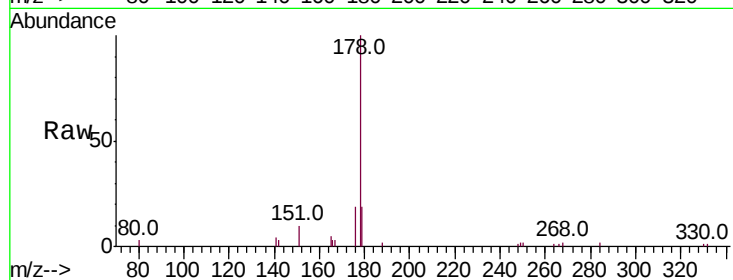
Tot Ion:178 Resp: 8617

Ion Ratio Lower Upper

178 100

176 18.2 14.5 21.7

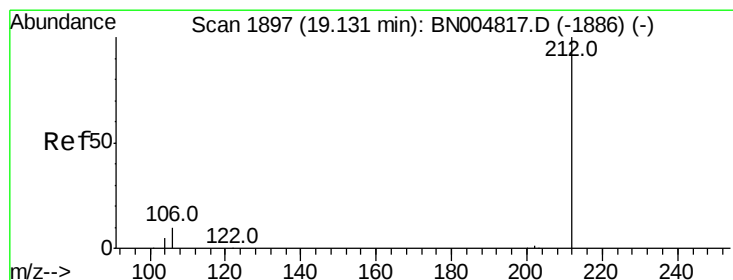
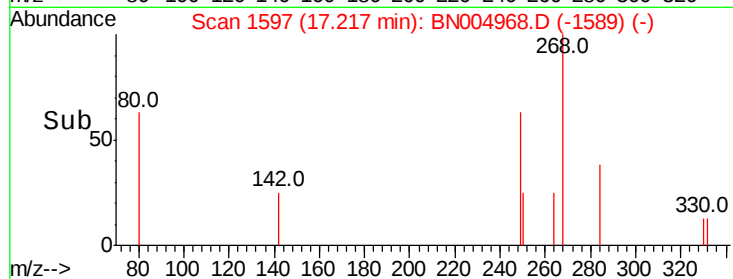
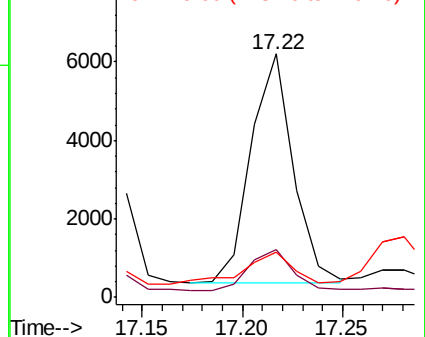
179 15.6 12.2 18.4



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



#25

Fluoranthene-d10

Concen: 0.035 ng

RT: 19.12 min Scan# 1895

Delta R.T. -0.01 min

Lab File: BN004968.D

Acq: 25 Mar 2019 19:29

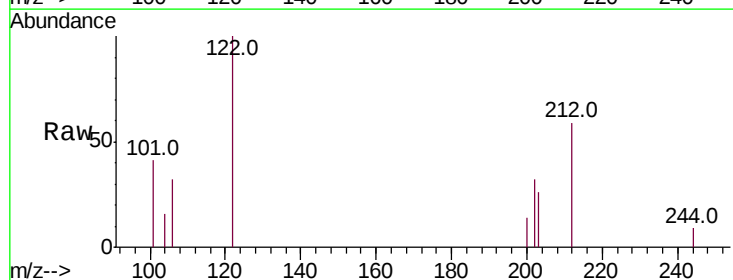
Tgt Ion:212 Resp: 1864

Ion Ratio Lower Upper

212 100

106 49.1 8.6 13.0#

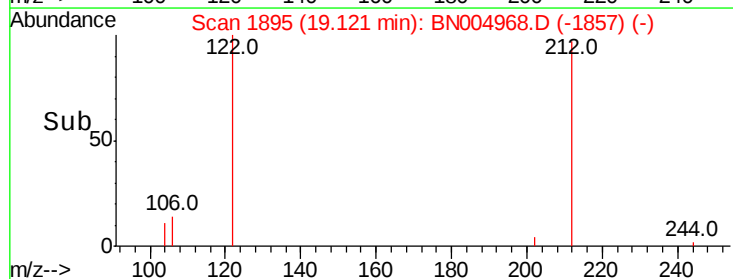
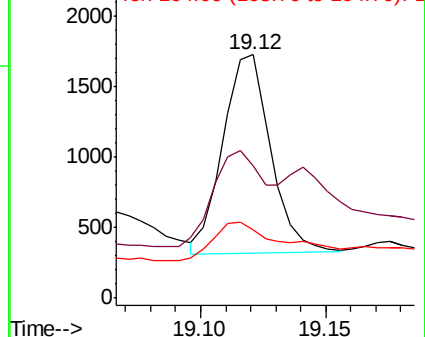
104 32.2 4.7 7.1#

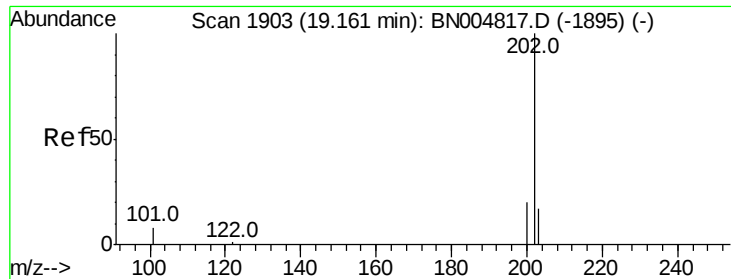


Abundance Ion 212.00 (211.70 to 212.70): E

Ion 106.00 (105.70 to 106.70): E

Ion 104.00 (103.70 to 104.70): E

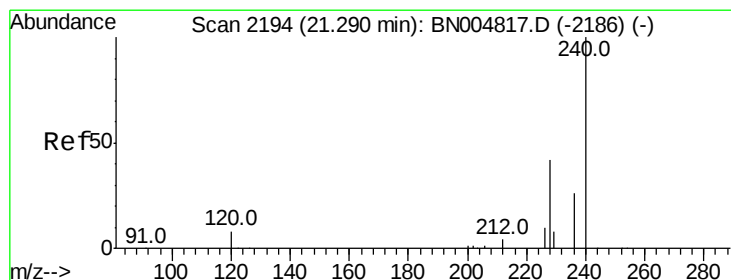
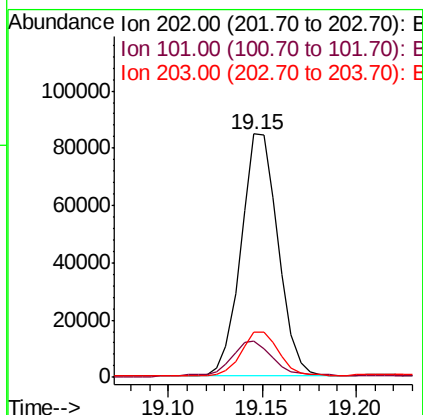
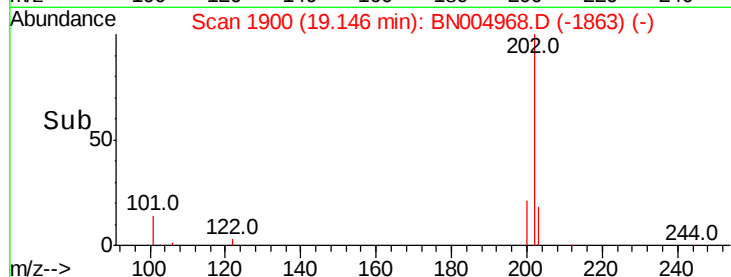
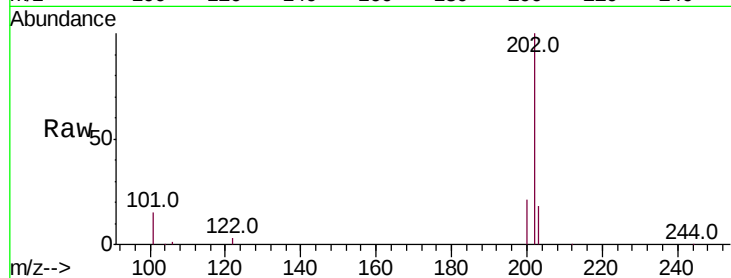




#26
 Fluoranthene
 Concen: 1.743 ng
 RT: 19.15 min Scan# 1900
 Delta R.T. -0.01 min
 Lab File: BN004968.D
 Acq: 25 Mar 2019 19:29

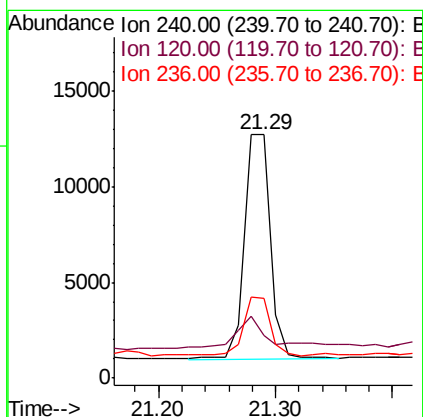
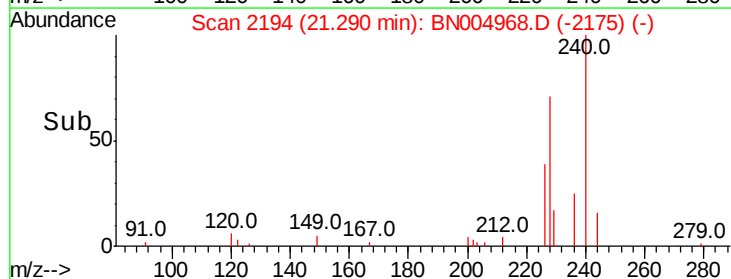
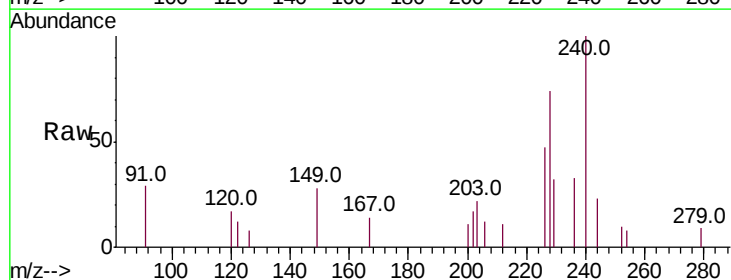
Instrument :
 BNA_N
 ClientSampleId :
 PST-025-B029-031919

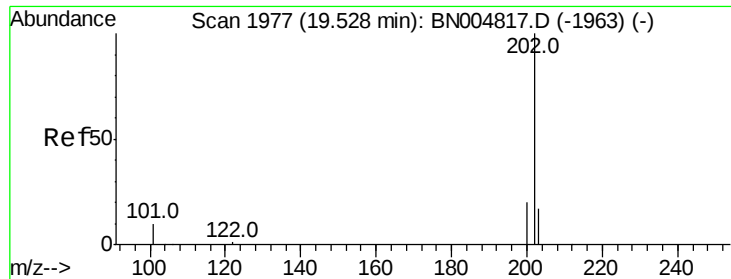
Tot Ion:202 Resp: 115712
 Ion Ratio Lower Upper
 202 100
 101 17.7 7.5 11.3#
 203 18.0 13.8 20.6



#27
 Chrysene-d12
 Concen: 0.400 ng
 RT: 21.29 min Scan# 2194
 Delta R.T. 0.00 min
 Lab File: BN004968.D
 Acq: 25 Mar 2019 19:29

Tgt Ion:240 Resp: 18083
 Ion Ratio Lower Upper
 240 100
 120 17.3 7.2 10.8#
 236 32.5 20.9 31.3#

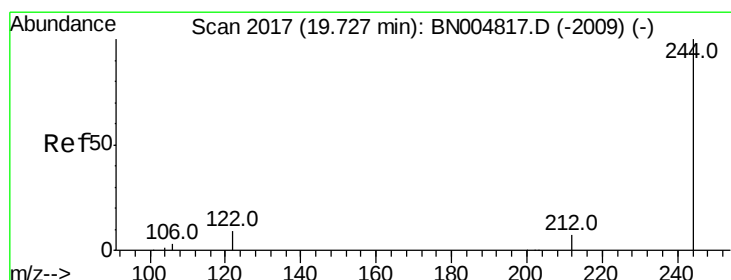
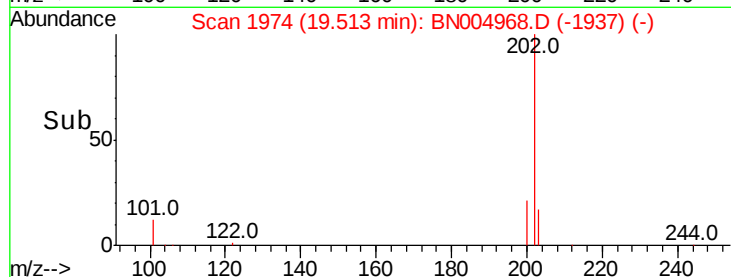
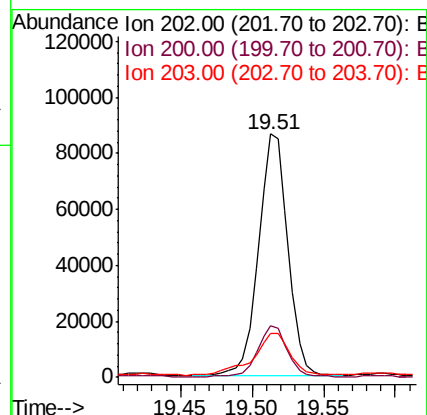
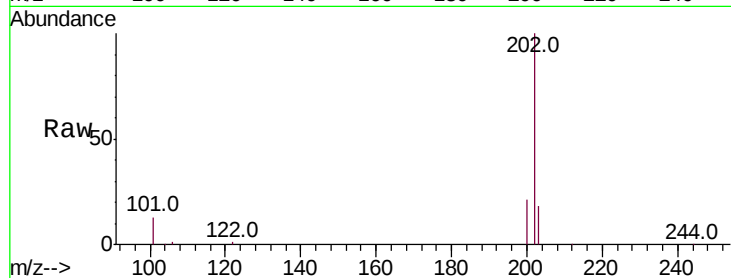




#28
Pvrene
Concen: 2.223 ng
RT: 19.51 min Scan# 1974
Delta R.T. -0.01 min
Lab File: BN004968.D
Acq: 25 Mar 2019 19:29

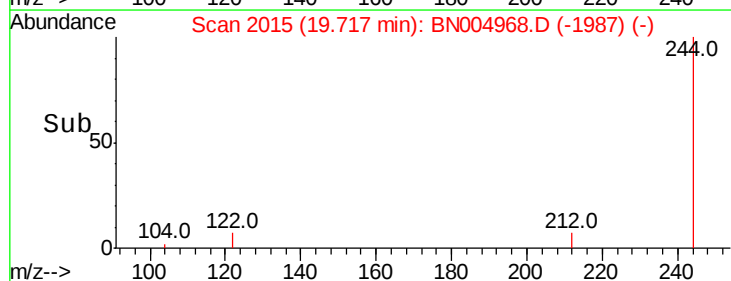
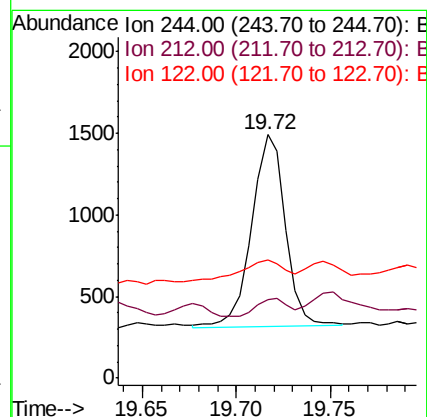
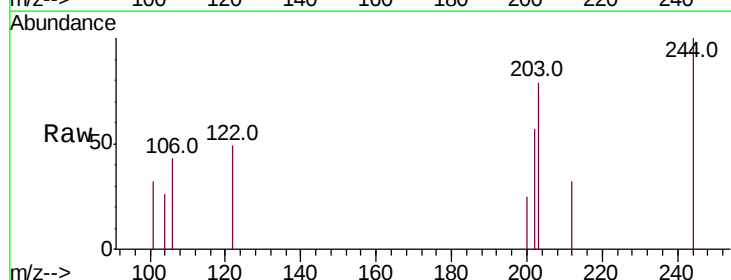
Instrument :
BNA_N
ClientSampleId :
PST-025-B029-031919

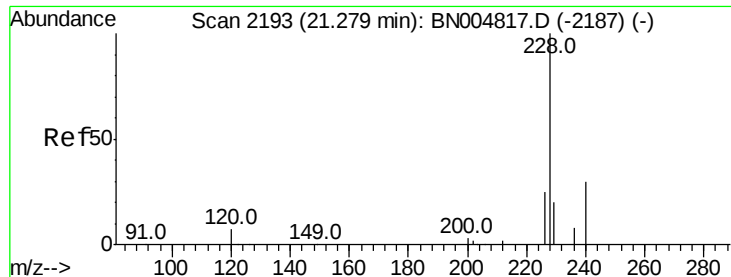
Tot Ion:202 Resp: 122560
Ion Ratio Lower Upper
202 100
200 20.8 16.3 24.5
203 21.4 14.0 21.0#



#29
Terphenyl-d14
Concen: 0.040 ng
RT: 19.72 min Scan# 2015
Delta R.T. -0.01 min
Lab File: BN004968.D
Acq: 25 Mar 2019 19:29

Tgt Ion:244 Resp: 1472
Ion Ratio Lower Upper
244 100
212 32.5 5.8 8.6#
122 48.6 7.9 11.9#





#30

Benzo(a)anthracene

Concen: 0.967 ng

RT: 21.27 min Scan# 2192

Delta R.T. -0.01 min

Lab File: BN004968.D

Acq: 25 Mar 2019 19:29

Instrument :

BNA_N

ClientSampleId :

PST-025-B029-031919

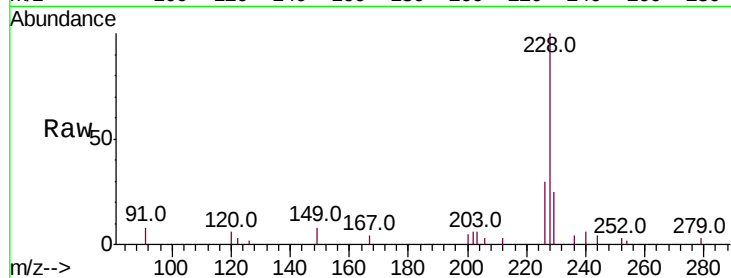
Tot Ion:228 Resp: 57344

Ion Ratio Lower Upper

228 100

226 30.1 20.6 31.0

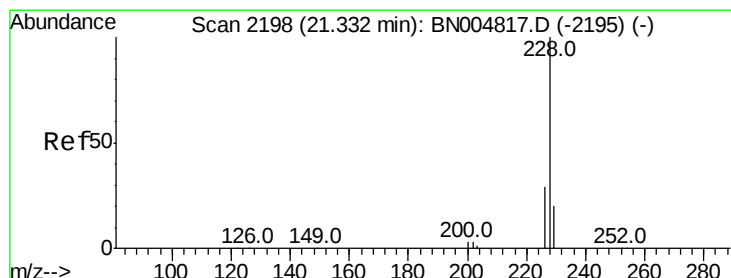
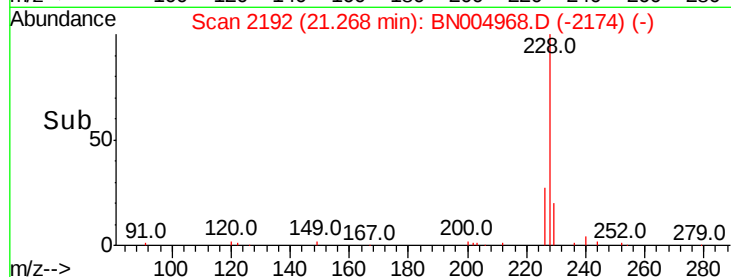
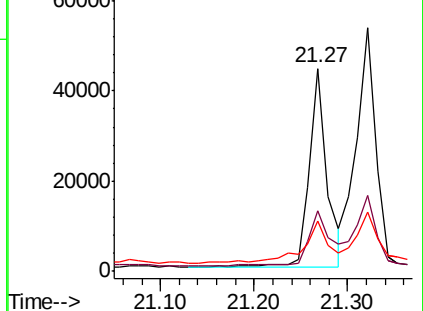
229 24.7 16.2 24.4#



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



#31

Chrysene

Concen: 1.220 ng

RT: 21.32 min Scan# 2197

Delta R.T. -0.01 min

Lab File: BN004968.D

Acq: 25 Mar 2019 19:29

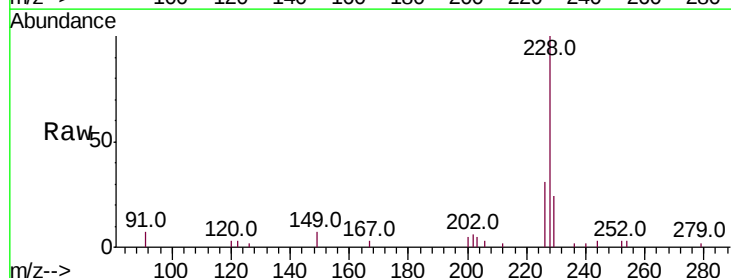
Tgt Ion:228 Resp: 76233

Ion Ratio Lower Upper

228 100

226 31.4 23.0 34.6

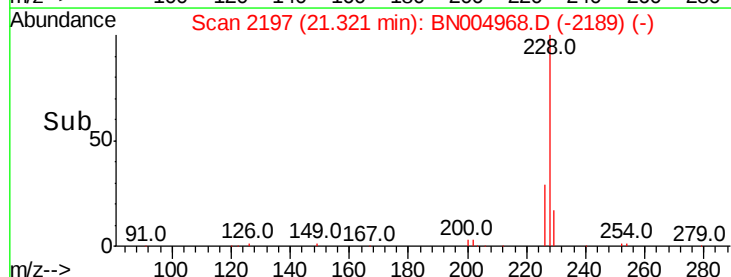
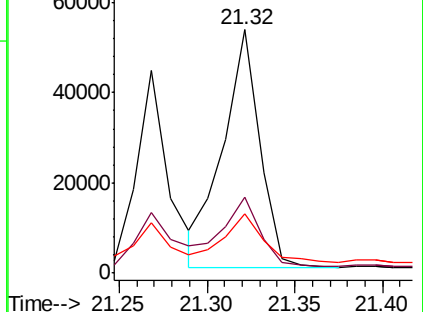
229 24.2 16.2 24.2#

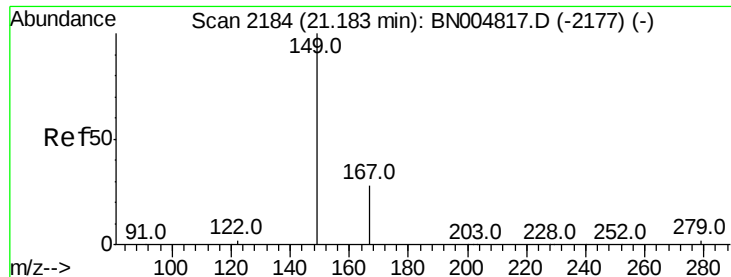


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E

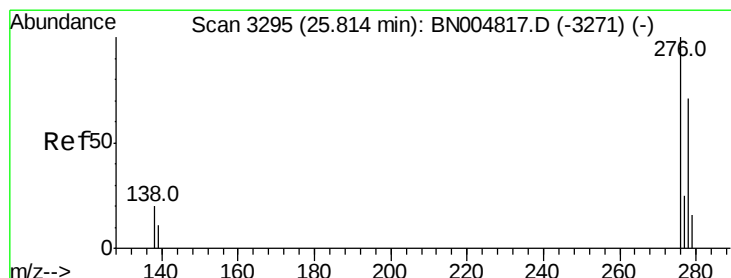
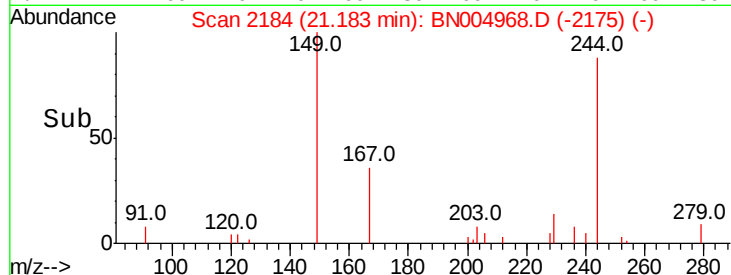
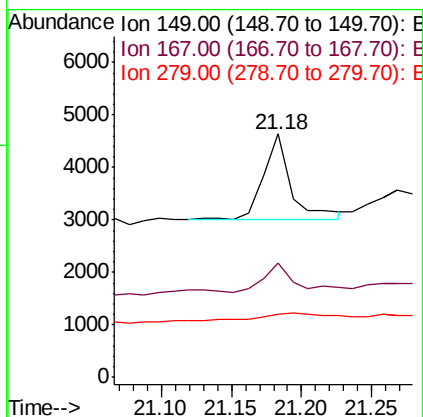
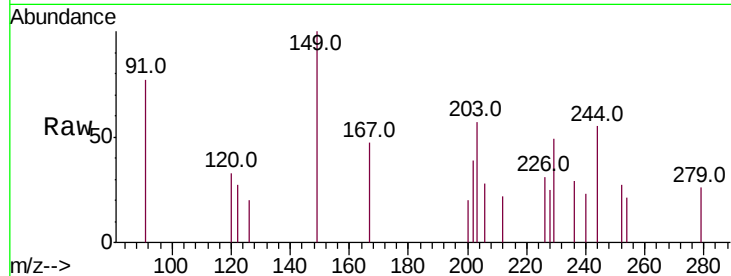




#32
 Bis(2-ethylhexyl)phthalate
 Concen: 0.097 ng
 RT: 21.18 min Scan# 2184
 Delta R.T. 0.00 min
 Lab File: BN004968.D
 Acq: 25 Mar 2019 19:29

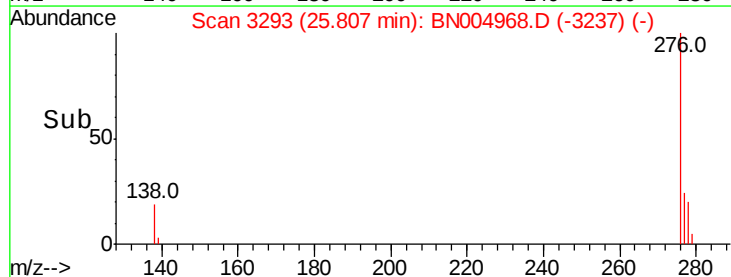
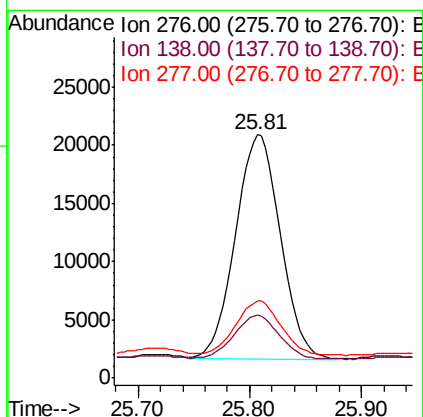
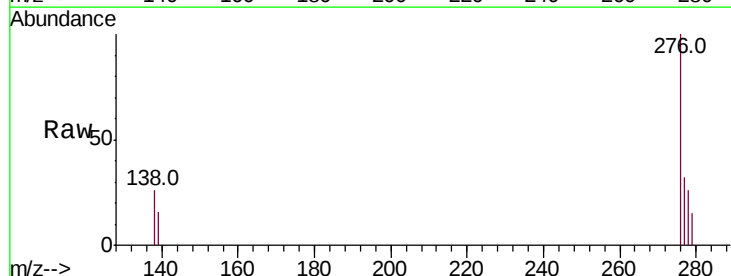
Instrument :
 BNA_N
 ClientSampleId :
 PST-025-B029-031919

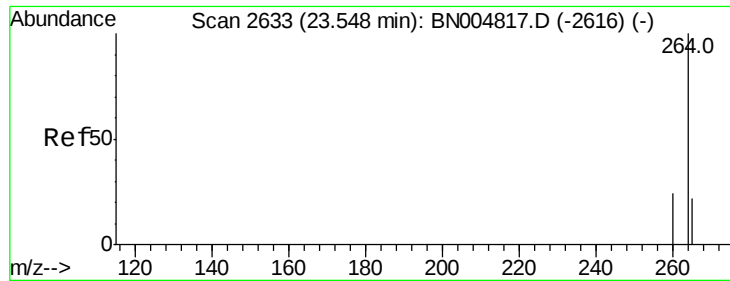
Tot Ion:149 Resp: 2303
 Ion Ratio Lower Upper
 149 100
 167 37.3 23.0 34.4#
 279 23.3 4.6 6.8#



#33
 Indeno(1,2,3-cd)pyrene
 Concen: 0.592 ng
 RT: 25.81 min Scan# 3293
 Delta R.T. -0.01 min
 Lab File: BN004968.D
 Acq: 25 Mar 2019 19:29

Tgt Ion:276 Resp: 53513
 Ion Ratio Lower Upper
 276 100
 138 19.7 16.6 24.8
 277 24.3 20.3 30.5

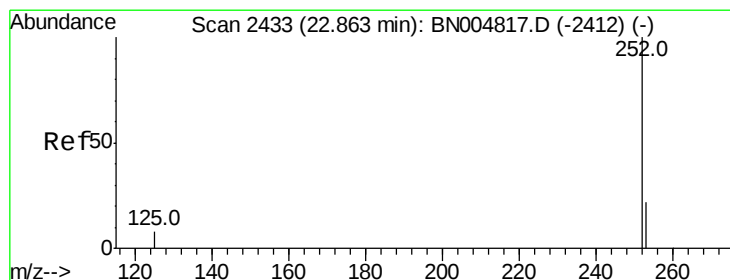
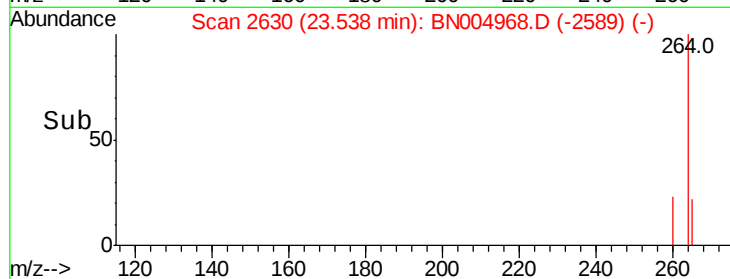
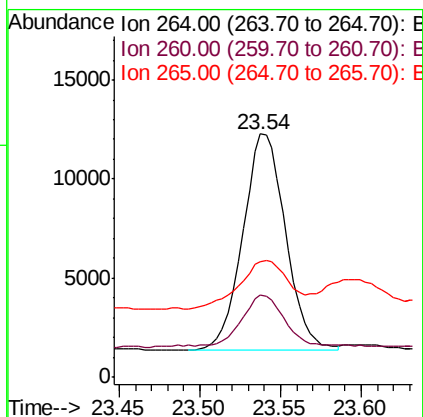
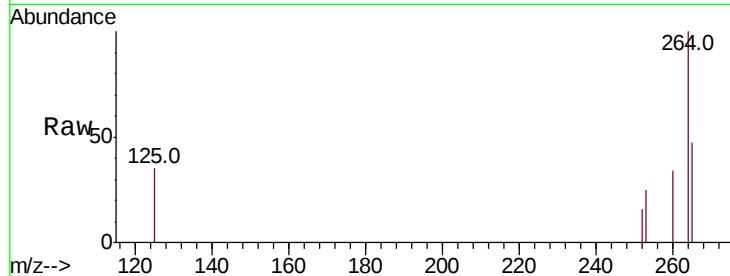




#34
Pervlene-d12
Concen: 0.400 ng
RT: 23.54 min Scan# 2630
Delta R.T. -0.01 min
Lab File: BN004968.D
Acq: 25 Mar 2019 19:29

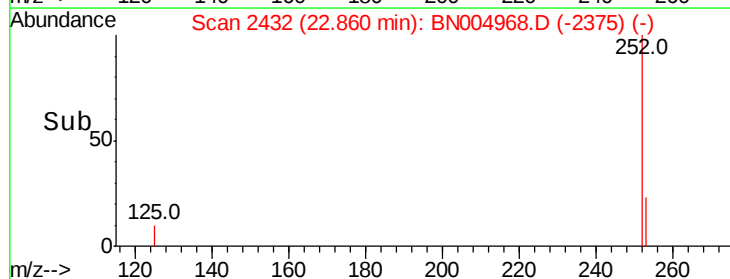
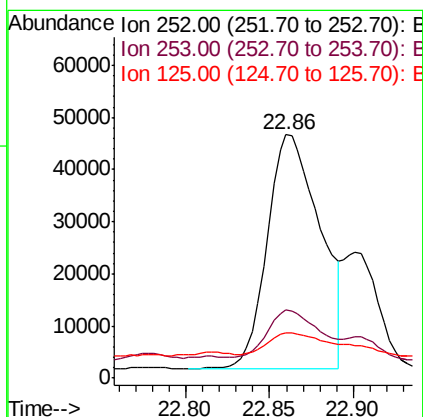
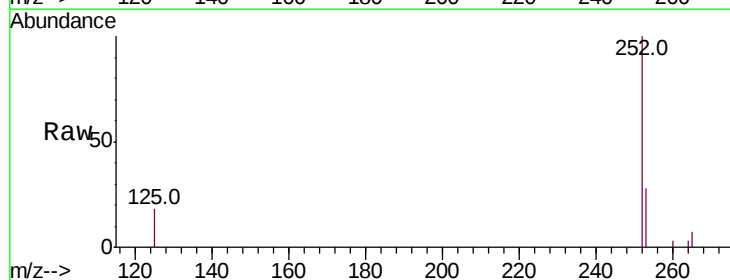
Instrument :
BNA_N
ClientSampleId :
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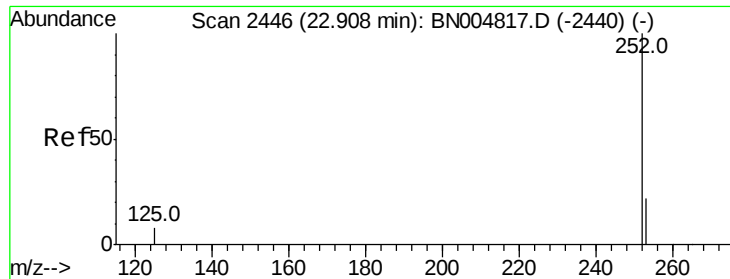
Tot Ion:264 Resp: 20060
Ion Ratio Lower Upper
264 100
260 33.6 19.5 29.3#
265 47.5 23.1 34.7#



#35
Benzo(b)fluoranthene
Concen: 1.356 ng
RT: 22.86 min Scan# 2432
Delta R.T. -0.00 min
Lab File: BN004968.D
Acq: 25 Mar 2019 19:29

Tgt Ion:252 Resp: 98386
Ion Ratio Lower Upper
252 100
253 28.0 19.0 28.4
125 18.3 7.4 11.2#





#36

Benzo(k)fluoranthene

Concen: 0.488 ng/mL

RT: 22.90 min Scan# 2444

Delta R.T. -0.01 min

Lab File: BN004968.D

Acq: 25 Mar 2019 19:29

Instrument:

BNA_N

ClientSampleID:

PST-025-B029-031919

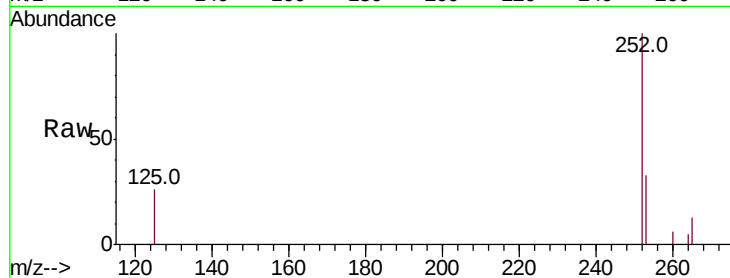
Tot Ion:252 Resp: 34872

Ion Ratio Lower Upper

252 100

253 32.6 19.3 28.9#

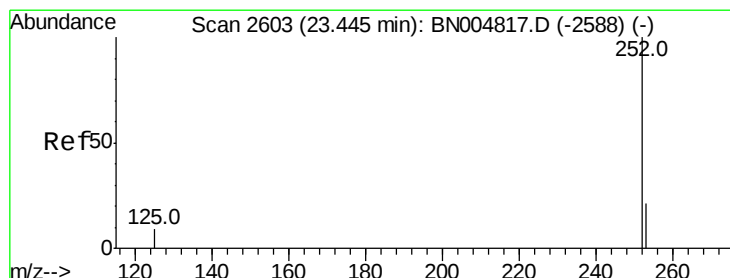
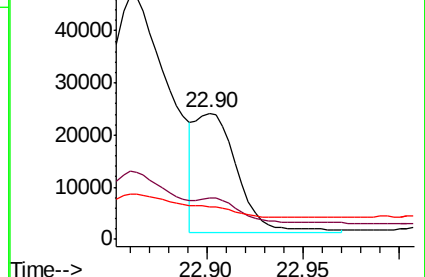
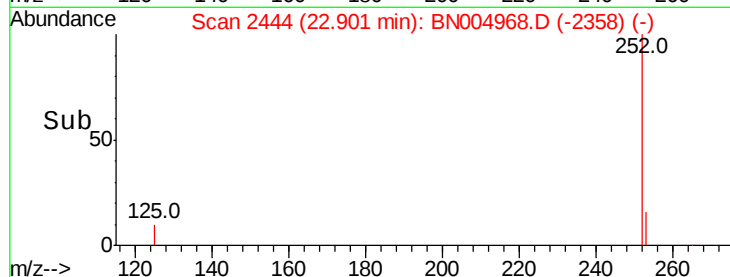
125 26.0 7.4 11.0#



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



#37

Benzo(a)pyrene

Concen: 0.950 ng/mL

RT: 23.44 min Scan# 2601

Delta R.T. -0.01 min

Lab File: BN004968.D

Acq: 25 Mar 2019 19:29

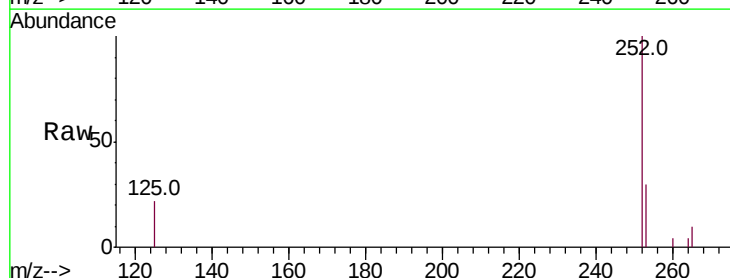
Tgt Ion:252 Resp: 63238

Ion Ratio Lower Upper

252 100

253 30.0 19.7 29.5#

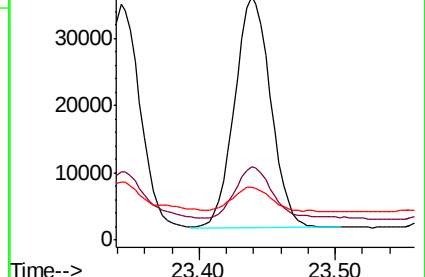
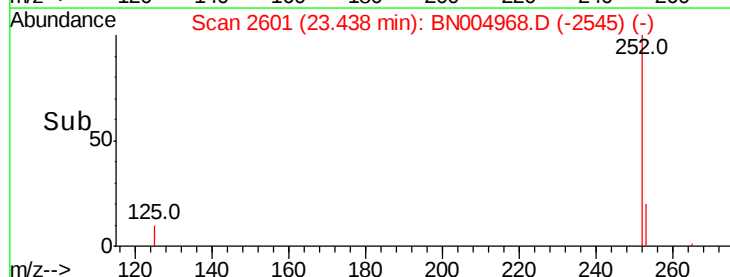
125 22.0 8.3 12.5#

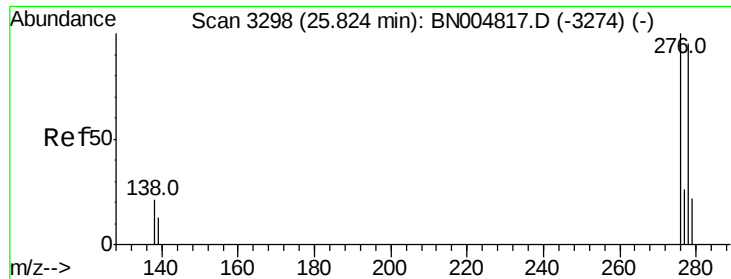


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#38

Dibenzo(a,h)anthracene

Concen: 0.187 ng

RT: 25.81 min Scan# 3294

Delta R.T. -0.01 min

Lab File: BN004968.D

Acq: 25 Mar 2019 19:29

Instrument :

BNA_N

ClientSampleId :

PST-025-B029-031919

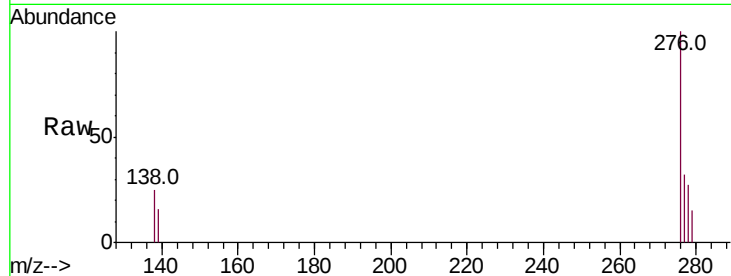
Tot Ion:278 Resp: 14455

Ion Ratio Lower Upper

278 100

139 59.9 11.7 17.5#

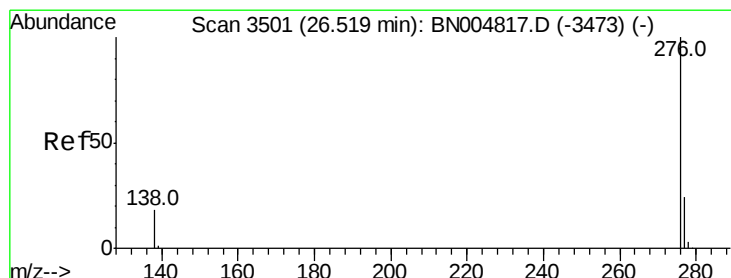
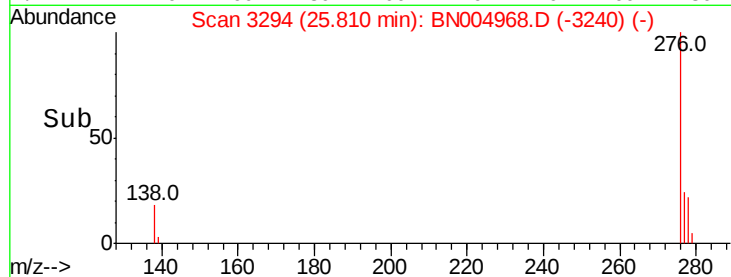
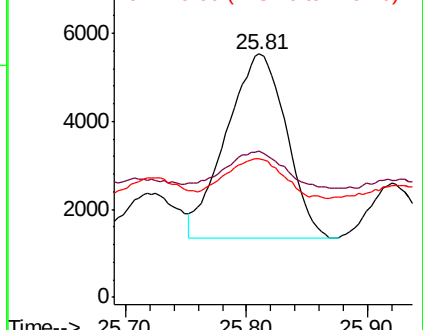
279 57.2 19.9 29.9#



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



#39

Benzo(g,h,i)perylene

Concen: 0.788 ng

RT: 26.51 min Scan# 3498

Delta R.T. -0.01 min

Lab File: BN004968.D

Acq: 25 Mar 2019 19:29

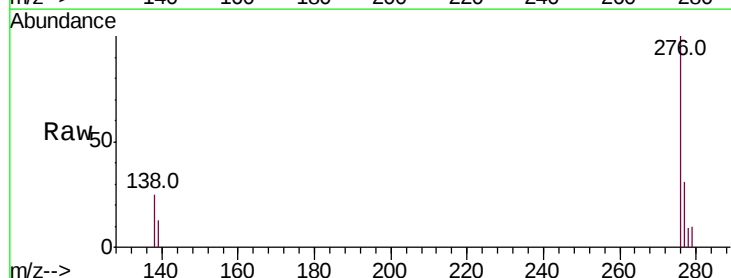
Tgt Ion:276 Resp: 61874

Ion Ratio Lower Upper

276 100

277 31.2 19.7 29.5#

138 25.4 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

