

Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN032219\
 Data File : BN004898.D
 Acq On : 22 Mar 2019 23:44
 Operator : JU/SJ
 Sample : K2013-04
 Misc :
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 PST-026-B117-031819

Quant Time: Mar 23 02:49:50 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	2771	0.40	ng	0.00
7) Naphthalene-d8	10.48	136	11876	0.40	ng	-0.01
13) Acenaphthene-d10	14.33	164	7020	0.40	ng	-0.01
19) Phenanthrene-d10	17.08	188	17589	0.40	ng	-0.01
27) Chrysene-d12	21.28	240	23835	0.40	ng	-0.01
34) Perylene-d12	23.53	264	25388	0.40	ng	-0.02

System Monitoring Compounds						
4) 2-Fluorophenol	5.28	112	2752	0.37	ng	0.00
5) Phenol-d6	6.86	99	3917	0.42	ng	-0.02
8) Nitrobenzene-d5	8.86	82	2461	0.31	ng	-0.01
11) 2-Methylnaphthalene-d10	12.07	152	5780	0.28	ng	0.00
14) 2,4,6-Tribromophenol	15.84	330	2232	0.46	ng	-0.01
15) 2-Fluorobiphenyl	12.95	172	10283	0.35	ng	-0.01
25) Fluoranthene-d10	19.12	212	16400	0.28	ng	0.00
29) Terphenyl-d14	19.72	244	19462	0.40	ng	0.00

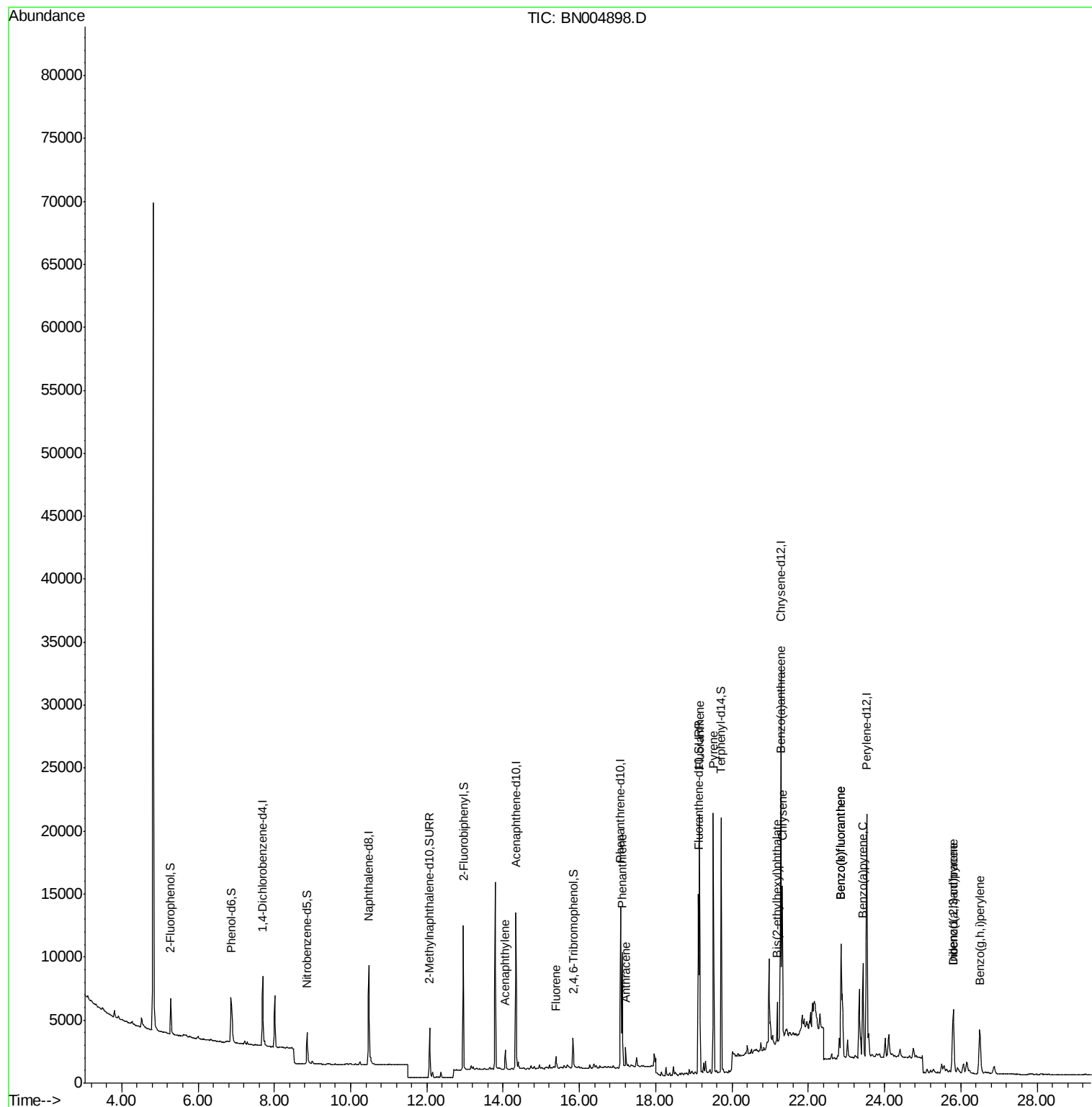
Target Compounds				Qvalue		
16) Acenaphthylene	14.05	152	1839	0.051	ng	99
18) Fluorene	15.39	166	685	0.021	ng	# 91
23) Phenanthrene	17.12	178	9955	0.175	ng	99
24) Anthracene	17.22	178	1876	0.037	ng	98
26) Fluoranthene	19.15	202	18343	0.251	ng	98
28) Pyrene	19.52	202	19796	0.272	ng	97
30) Benzo(a)anthracene	21.27	228	10716	0.137	ng	94
31) Chrysene	21.32	228	11635	0.141	ng	95
32) Bis(2-ethylhexyl)phthalate	21.18	149	3020	0.097	ng	99
33) Indeno(1,2,3-cd)pyrene	25.80	276	7502	0.063	ng	98
35) Benzo(b)fluoranthene	22.86	252	14250	0.155	ng	# 86
36) Benzo(k)fluoranthene	22.86	252	14250	0.158	ng	# 87
37) Benzo(a)pyrene	23.43	252	10524	0.125	ng	# 88
38) Dibenzo(a,h)anthracene	25.81	278	2658	0.027	ng	# 49
39) Benzo(g,h,i)perylene	26.50	276	7543	0.076	ng	# 93

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

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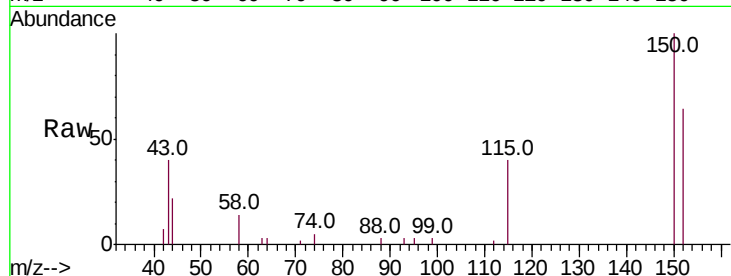


#1

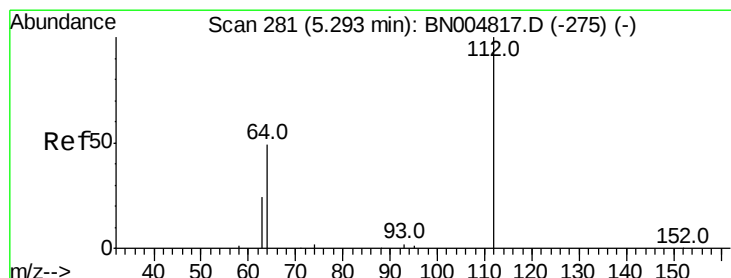
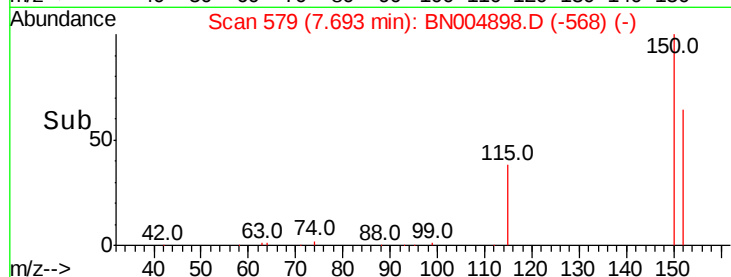
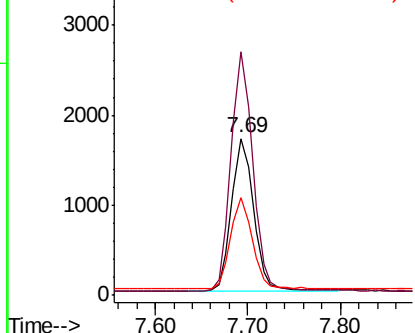
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.69 min Scan# 579
Delta R.T. -0.01 min
Lab File: BN004898.D
Acq: 22 Mar 2019 23:44

Instrument :
BNA_N
ClientSampleId :
PST-026-B117-031819

Tot Ion:152 Resp: 2771
Ion Ratio Lower Upper
152 100
150 155.1 126.2 189.4
115 62.5 52.6 79.0



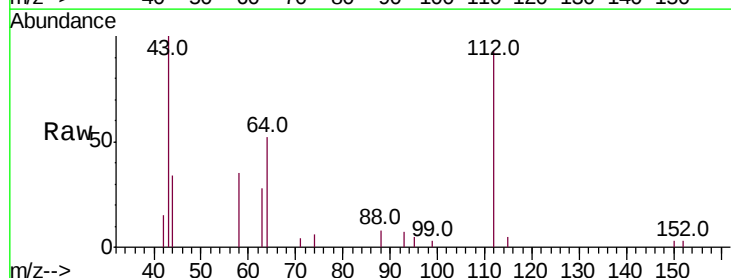
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



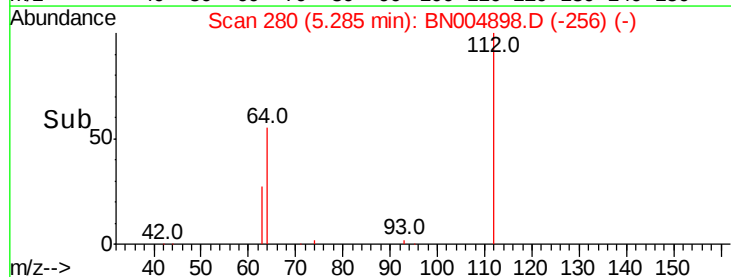
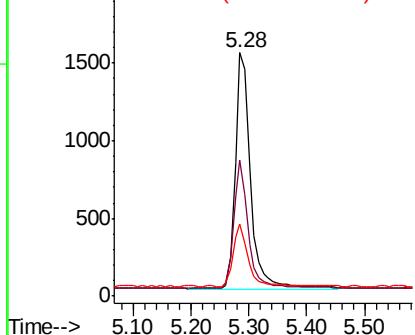
#4

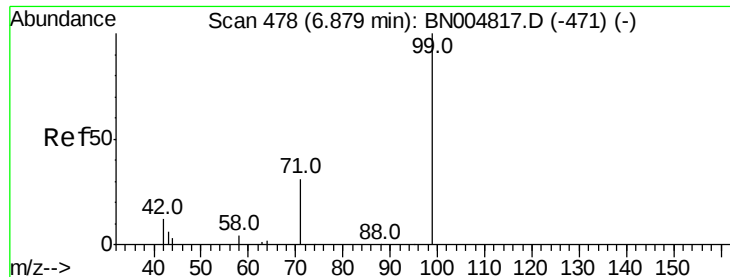
2-Fluorophenol
Concen: 0.365 ng
RT: 5.28 min Scan# 280
Delta R.T. -0.01 min
Lab File: BN004898.D
Acq: 22 Mar 2019 23:44

Tgt Ion:112 Resp: 2752
Ion Ratio Lower Upper
112 100
64 51.0 40.0 60.0
63 26.4 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: 0.418 ng

RT: 6.86 min Scan# 476

Delta R.T. -0.02 min

Lab File: BN004898.D

Acq: 22 Mar 2019 23:44

Instrument :

BNA_N

ClientSampleId :

PST-026-B117-031819

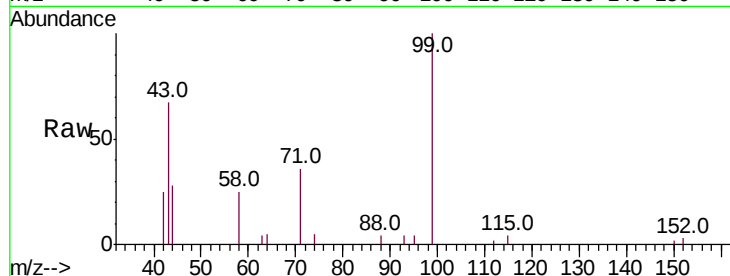
Tot Ion: 99 Resp: 3917

Ion Ratio Lower Upper

99 100

42 17.4 12.7 19.1

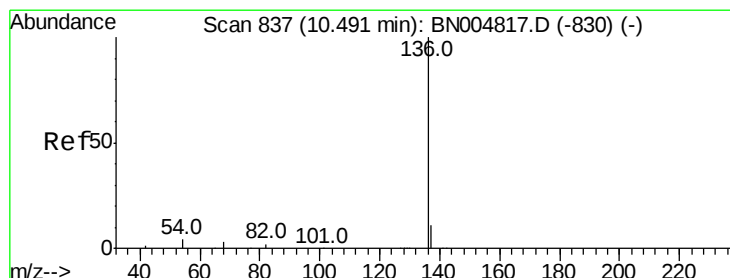
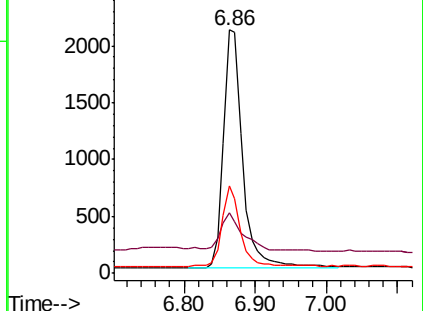
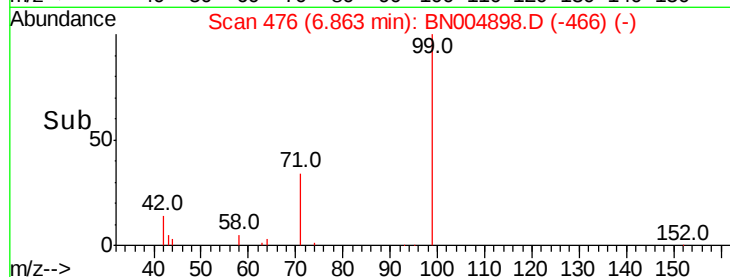
71 31.5 26.6 40.0



Abundance Ion 99.00 (98.70 to 99.70): BN004817.D (-471) (-)

Ion 42.00 (41.70 to 42.70): BN004817.D (-471) (-)

Ion 71.00 (70.70 to 71.70): BN004817.D (-471) (-)



#7

Naphthalene-d8

Concen: 0.400 ng

RT: 10.48 min Scan# 836

Delta R.T. -0.01 min

Lab File: BN004898.D

Acq: 22 Mar 2019 23:44

Tgt Ion: 136 Resp: 11876

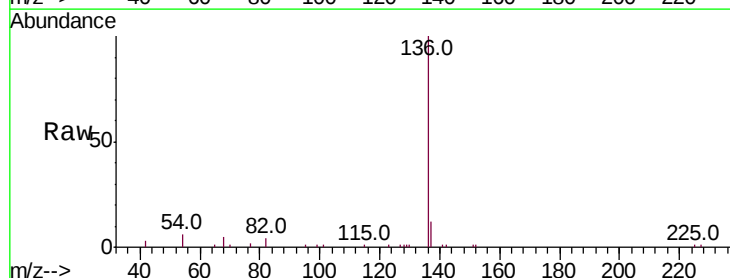
Ion Ratio Lower Upper

136 100

137 11.7 9.6 14.4

54 5.9 4.2 6.2

68 5.1 3.9 5.9

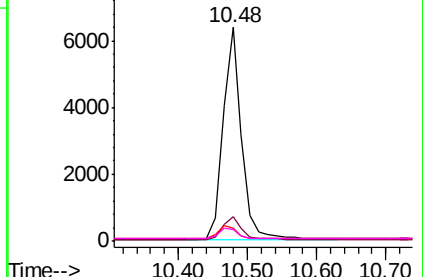
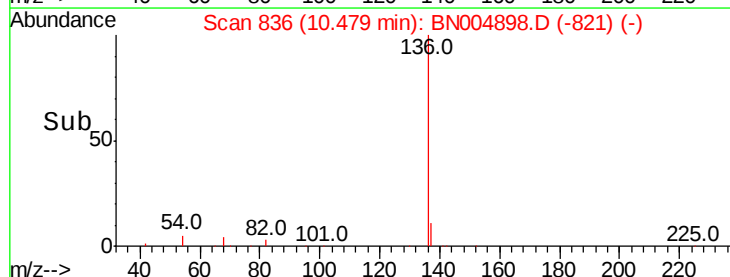


Abundance Ion 136.00 (135.70 to 136.70): BN004817.D (-830) (-)

Ion 137.00 (136.70 to 137.70): BN004817.D (-830) (-)

Ion 54.00 (53.70 to 54.70): BN004817.D (-830) (-)

Ion 68.00 (67.70 to 68.70): BN004817.D (-830) (-)





#8

Nitrobenzene-d5

Concen: 0.313 ng

RT: 8.86 min Scan# 708

Delta R.T. -0.01 min

Lab File: BN004898.D

Acq: 22 Mar 2019 23:44

Instrument :

BNA_N

ClientSampleId :

PST-026-B117-031819

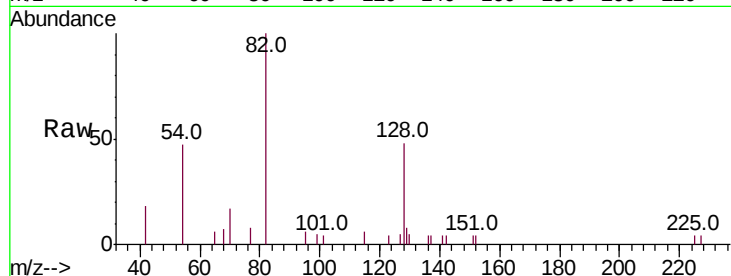
Tot Ion: 82 Resp: 2461

Ion Ratio Lower Upper

82 100

128 47.7 43.0 64.6

54 46.8 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

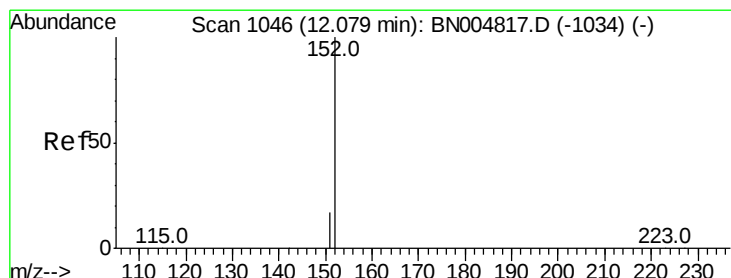
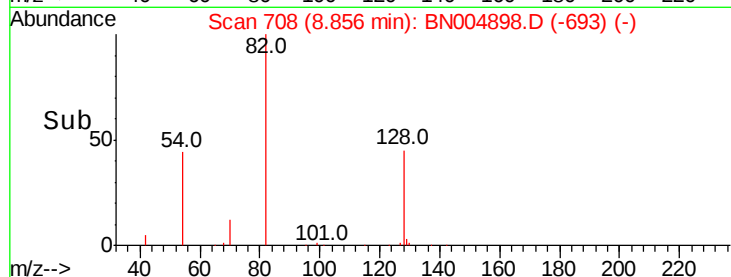
1000

500

0

8.70 8.80 8.90 9.00

Time-->



#11

2-Methylnaphthalene-d10

Concen: 0.279 ng

RT: 12.07 min Scan# 1044

Delta R.T. -0.01 min

Lab File: BN004898.D

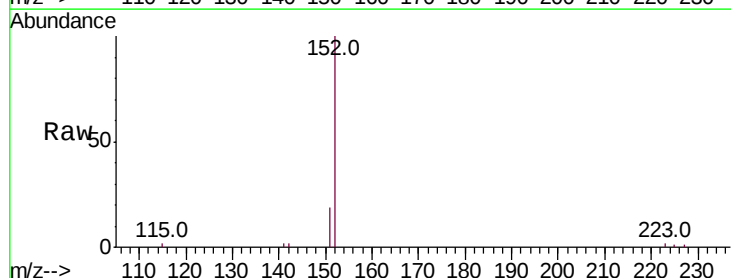
Acq: 22 Mar 2019 23:44

Tgt Ion: 152 Resp: 5780

Ion Ratio Lower Upper

152 100

151 19.3 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) (-)

4000

3000

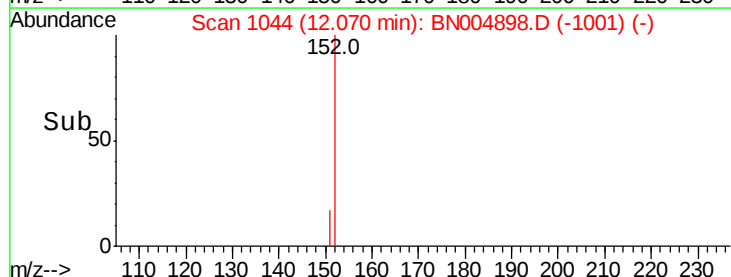
2000

1000

0

12.00 12.10 12.20

Time-->





#13

Acenaphthene-d10

Concen: 0.400 ng

RT: 14.33 min Scan# 1333

Delta R.T. -0.01 min

Lab File: BN004898.D

Acq: 22 Mar 2019 23:44

Instrument :

BNA_N

ClientSampleId :

PST-026-B117-031819

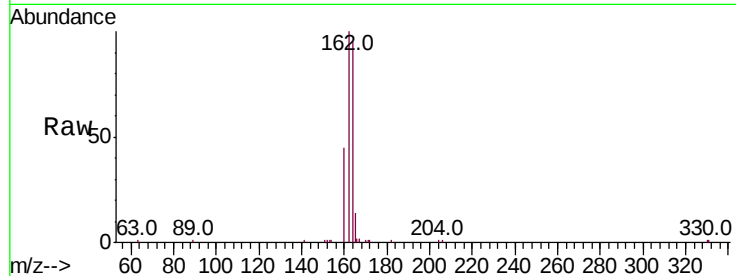
Tot Ion:164 Resp: 7020

Ion Ratio Lower Upper

164 100

162 104.9 81.9 122.9

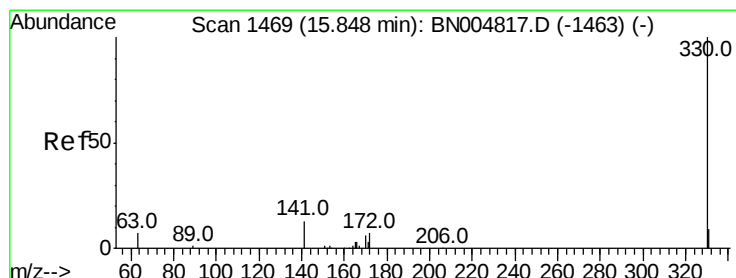
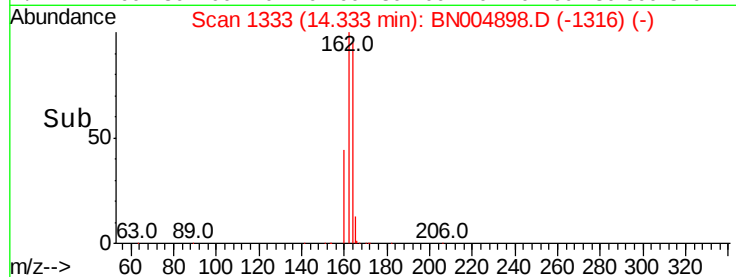
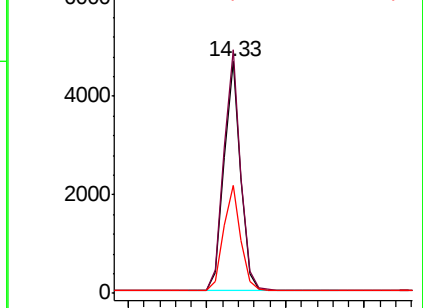
160 46.8 36.6 54.8



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: 0.460 ng

RT: 15.84 min Scan# 1468

Delta R.T. -0.01 min

Lab File: BN004898.D

Acq: 22 Mar 2019 23:44

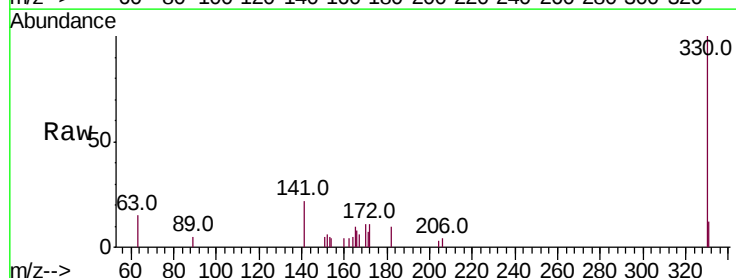
Tgt Ion:330 Resp: 2232

Ion Ratio Lower Upper

330 100

332 0.0 0.0 0.0

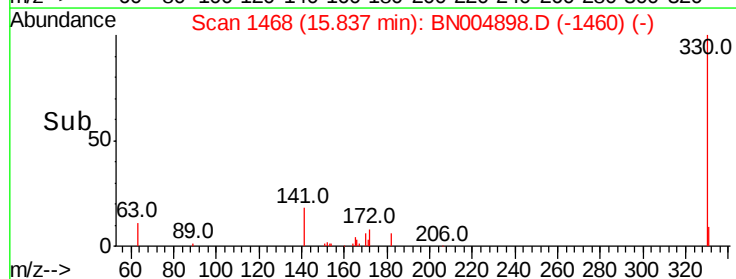
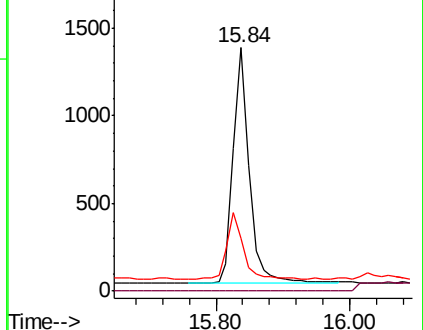
141 28.2 20.9 31.3



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

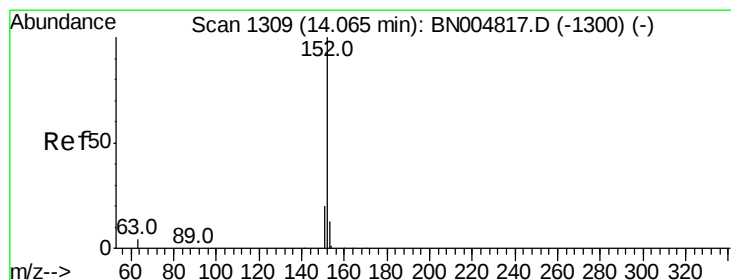
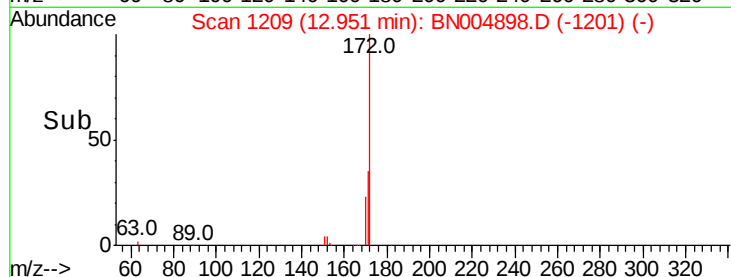
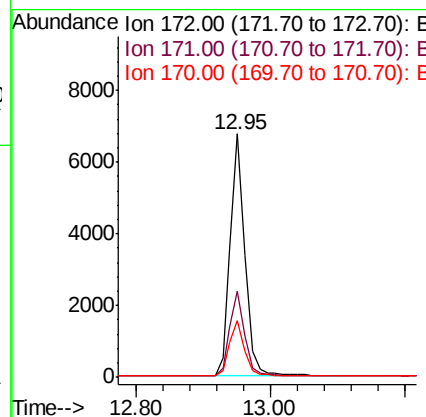
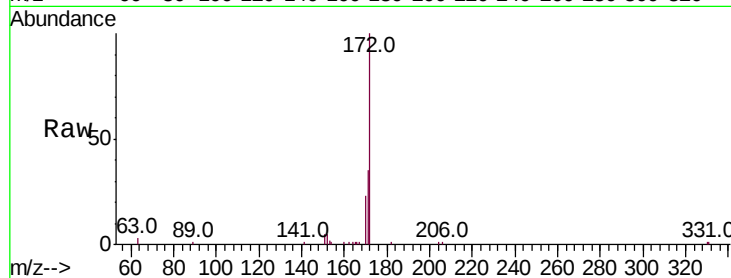




#15
2-Fluorobiphenyl
Concen: 0.354 ng
RT: 12.95 min Scan# 1209
Delta R.T. -0.01 min
Lab File: BN004898.D
Acq: 22 Mar 2019 23:44

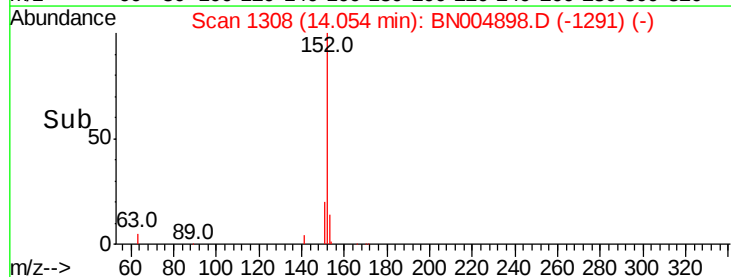
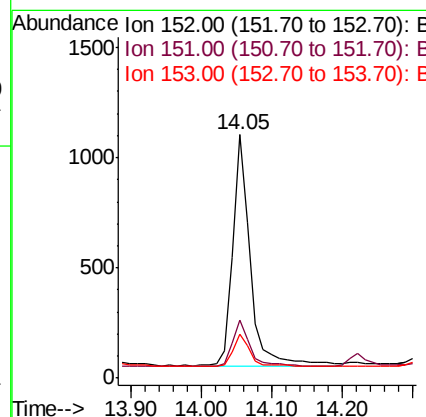
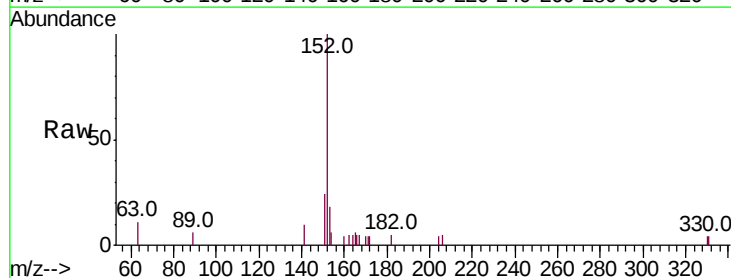
Instrument :
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PST-026-B117-031819

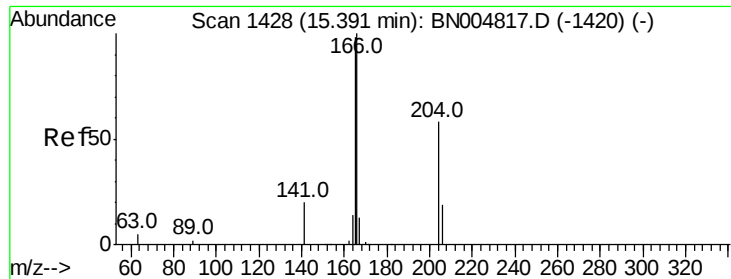
Tot Ion:172 Resp: 10283
Ion Ratio Lower Upper
172 100
171 35.4 28.7 43.1
170 23.4 18.7 28.1



#16
Acenaphthylene
Concen: 0.051 ng
RT: 14.05 min Scan# 1308
Delta R.T. -0.01 min
Lab File: BN004898.D
Acq: 22 Mar 2019 23:44

Tgt Ion:152 Resp: 1839
Ion Ratio Lower Upper
152 100
151 20.0 16.1 24.1
153 14.4 10.5 15.7





#18

Fluorene

Concen: 0.021 ng

RT: 15.39 min Scan# 1428

Delta R.T. 0.00 min

Lab File: BN004898.D

Acq: 22 Mar 2019 23:44

Instrument :

BNA_N

ClientSampleId :

PST-026-B117-031819

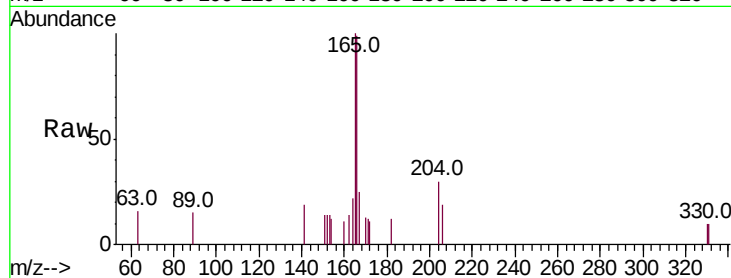
Tot Ion:166 Resp: 685

Ion Ratio Lower Upper

166 100

165 106.6 78.2 117.4

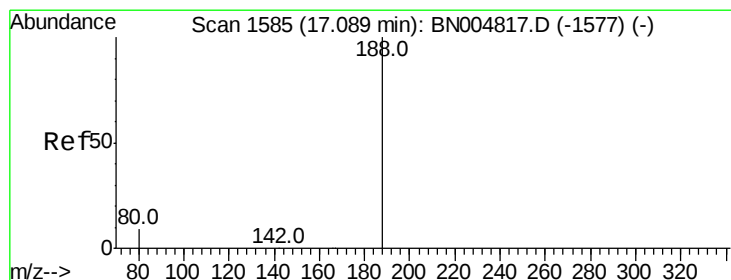
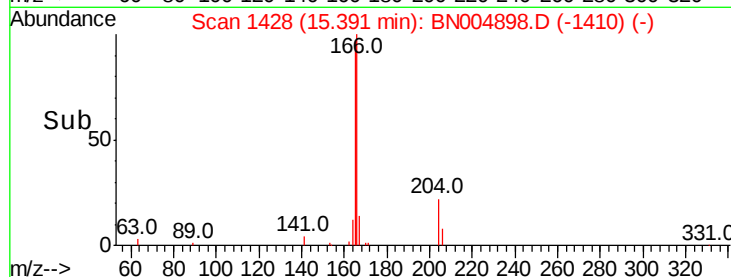
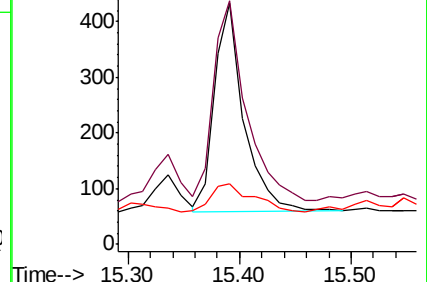
167 19.1 11.0 16.4#



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



#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.08 min Scan# 1584

Delta R.T. -0.01 min

Lab File: BN004898.D

Acq: 22 Mar 2019 23:44

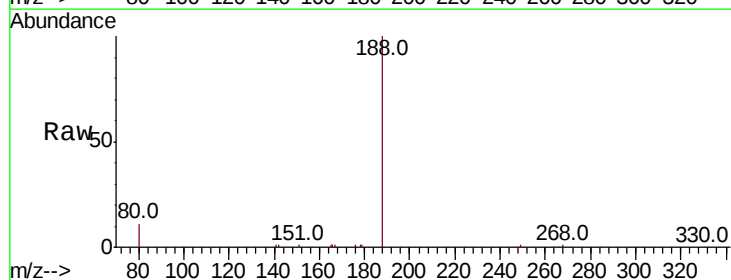
Tgt Ion:188 Resp: 17589

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

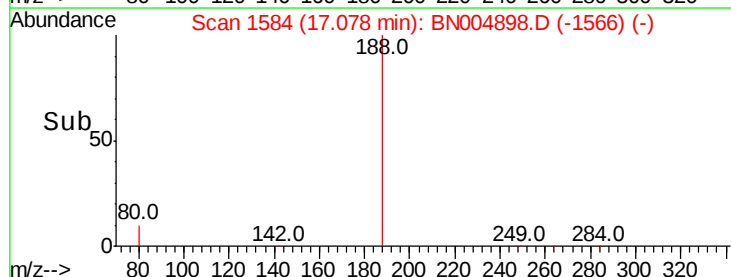
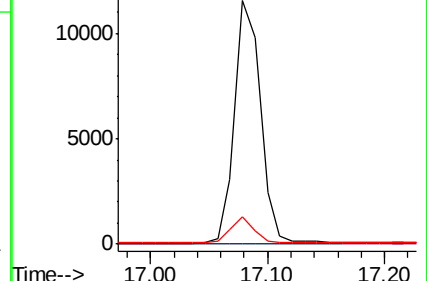
80 11.0 7.4 11.2

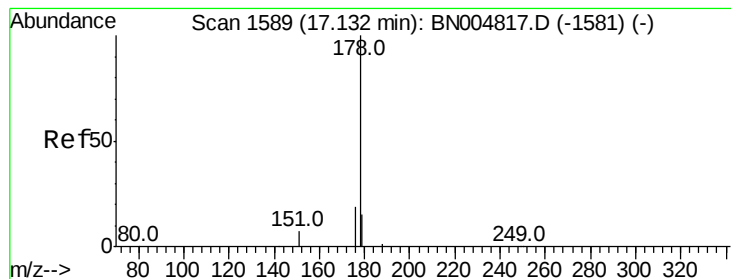


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BNC

Ion 80.00 (79.70 to 80.70): BNC





#23

Phenanthrene

Concen: 0.175 ng

RT: 17.12 min Scan# 1588

Delta R.T. -0.01 min

Lab File: BN004898.D

Acq: 22 Mar 2019 23:44

Instrument :

BNA_N

ClientSampleId :

PST-026-B117-031819

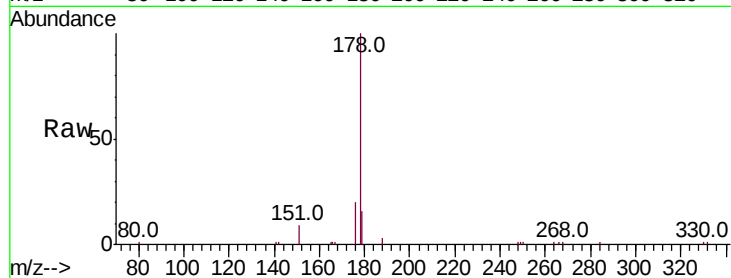
Tot Ion:178 Resp: 9955

Ion Ratio Lower Upper

178 100

176 18.8 14.9 22.3

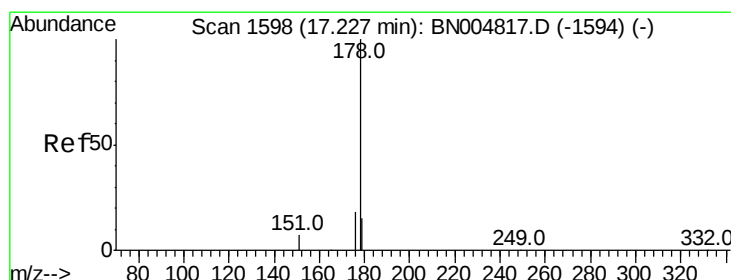
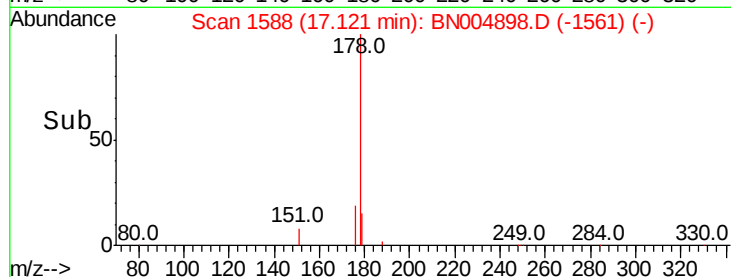
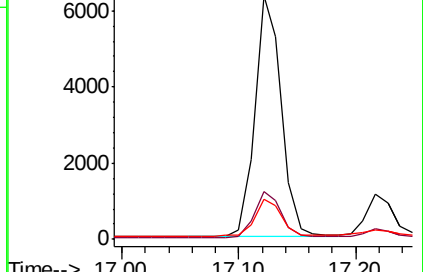
179 15.7 12.1 18.1



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: 0.037 ng

RT: 17.22 min Scan# 1597

Delta R.T. -0.01 min

Lab File: BN004898.D

Acq: 22 Mar 2019 23:44

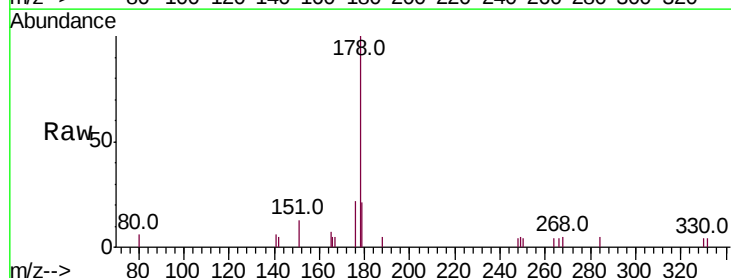
Tgt Ion:178 Resp: 1876

Ion Ratio Lower Upper

178 100

176 17.5 14.5 21.7

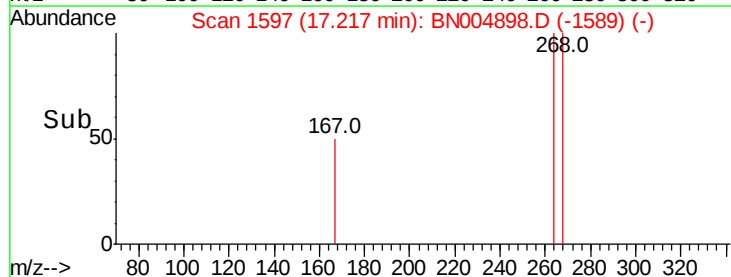
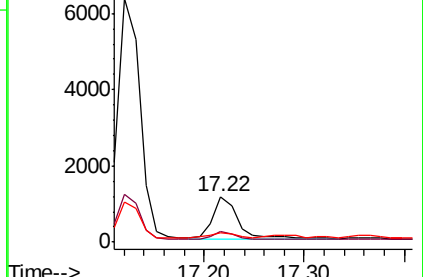
179 14.6 12.2 18.4

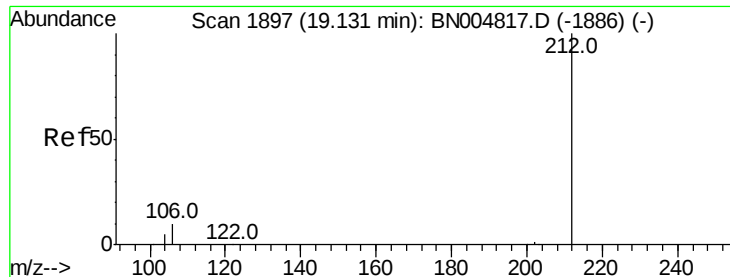


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#25

Fluoranthene-d10

Concen: 0.278 ng

RT: 19.12 min Scan# 1895

Delta R.T. -0.01 min

Lab File: BN004898.D

Acq: 22 Mar 2019 23:44

Instrument :

BNA_N

ClientSampleId :

PST-026-B117-031819

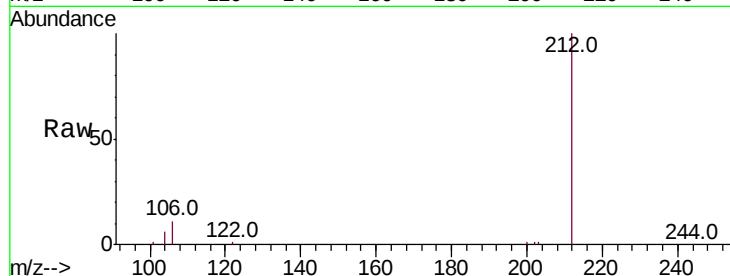
Tot Ion:212 Resp: 16400

Ion Ratio Lower Upper

212 100

106 11.7 8.6 13.0

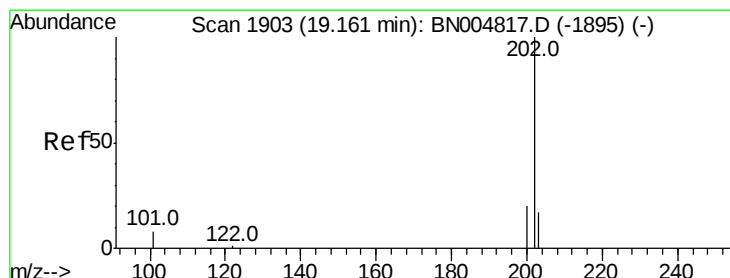
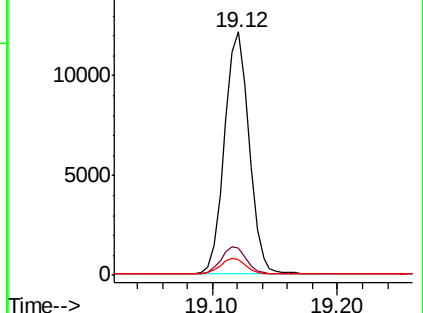
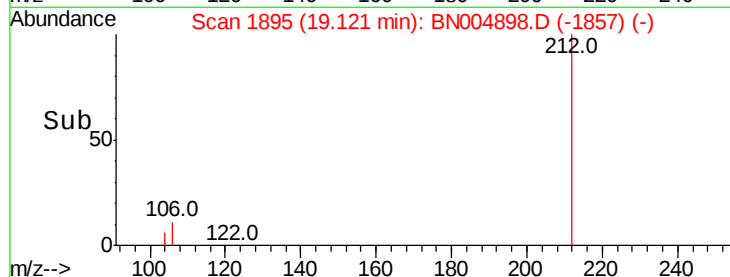
104 6.5 4.7 7.1



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: 0.251 ng

RT: 19.15 min Scan# 1901

Delta R.T. -0.01 min

Lab File: BN004898.D

Acq: 22 Mar 2019 23:44

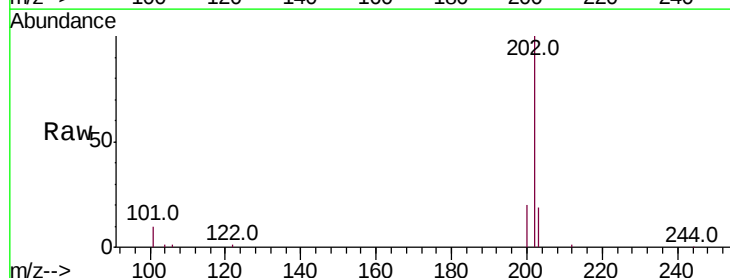
Tgt Ion:202 Resp: 18343

Ion Ratio Lower Upper

202 100

101 10.4 7.5 11.3

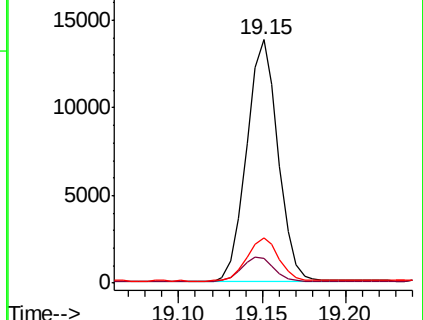
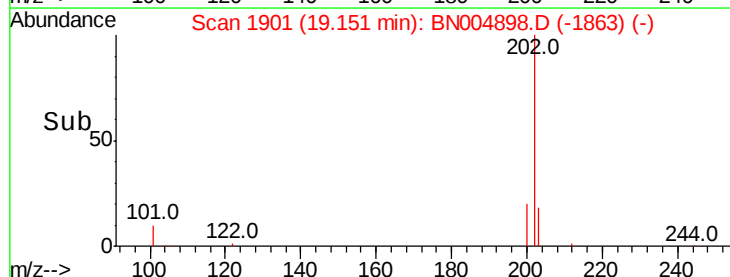
203 17.9 13.8 20.6

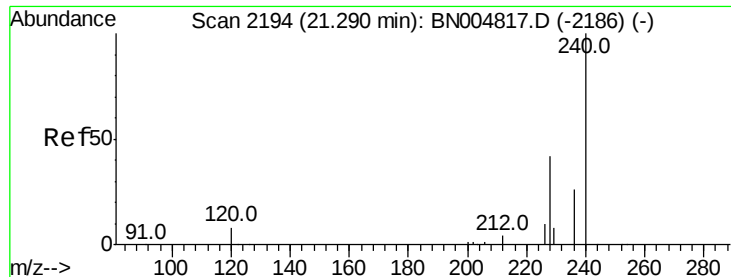


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E

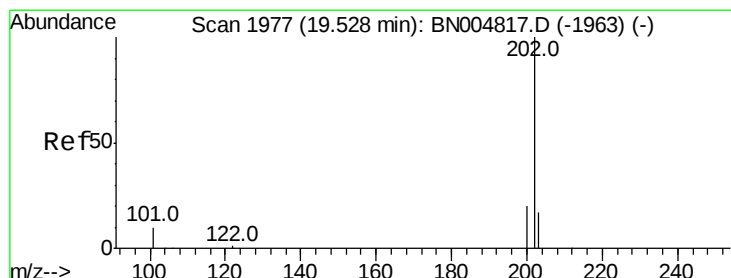
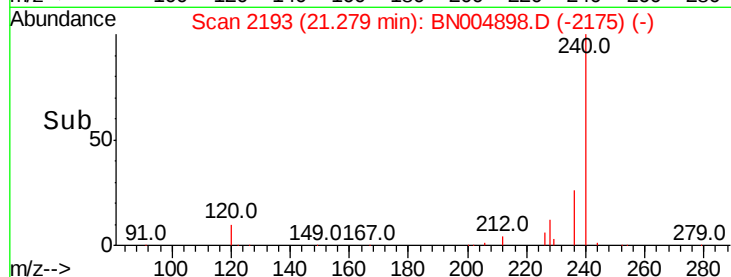
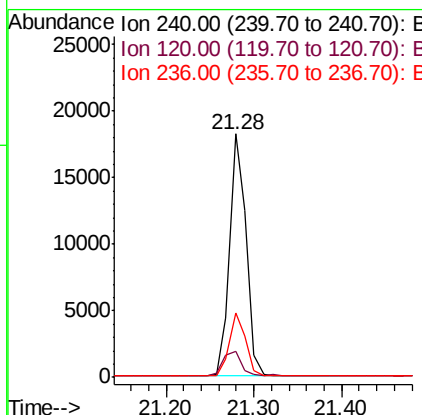
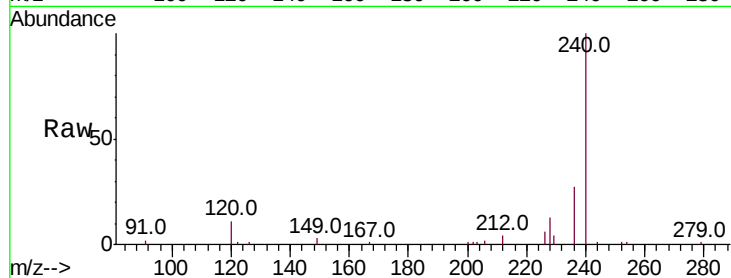




#27
Chrysene-d12
Concen: 0.400 ng
RT: 21.28 min Scan# 2193
Delta R.T. -0.01 min
Lab File: BN004898.D
Acq: 22 Mar 2019 23:44

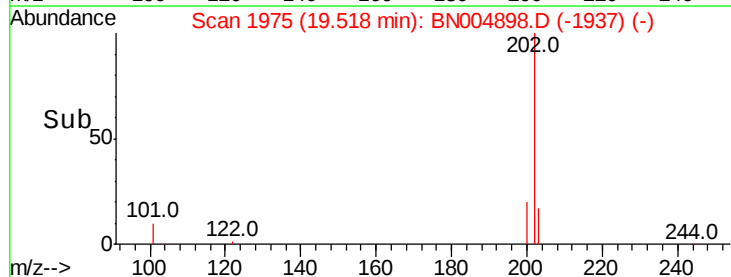
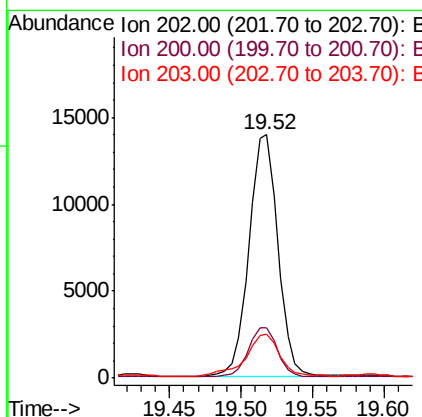
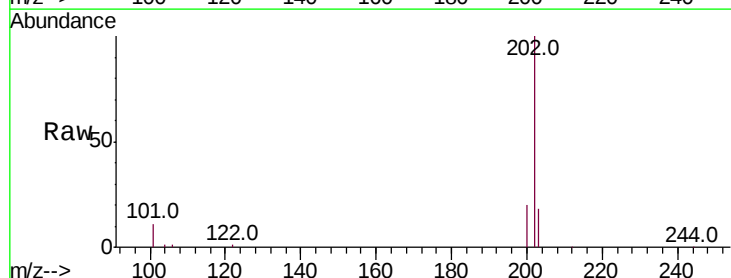
Instrument :
BNA_N
ClientSampleId :
PST-026-B117-031819

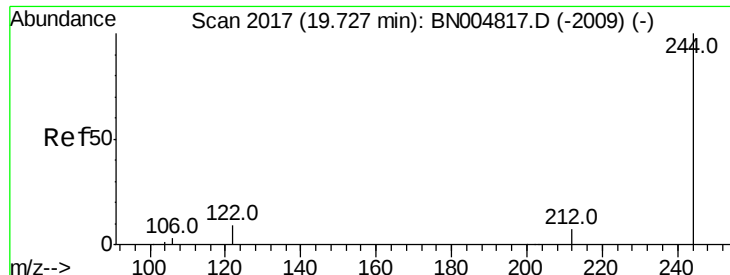
Tot Ion:240 Resp: 23835
Ion Ratio Lower Upper
240 100
120 10.7 7.2 10.8
236 26.7 20.9 31.3



#28
Pyrene
Concen: 0.272 ng
RT: 19.52 min Scan# 1975
Delta R.T. -0.01 min
Lab File: BN004898.D
Acq: 22 Mar 2019 23:44

Tgt Ion:202 Resp: 19796
Ion Ratio Lower Upper
202 100
200 20.6 16.3 24.5
203 20.0 14.0 21.0





#29

Terphenyl-d14

Concen: 0.399 ng

RT: 19.72 min Scan# 2015

Delta R.T. -0.01 min

Lab File: BN004898.D

Acq: 22 Mar 2019 23:44

Instrument :

BNA_N

ClientSampleId :

PST-026-B117-031819

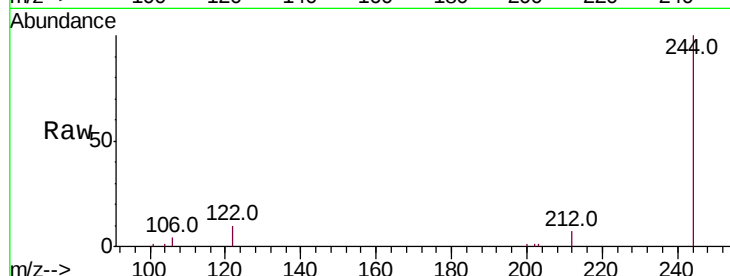
Tot Ion:244 Resp: 19462

Ion Ratio Lower Upper

244 100

212 7.2 5.8 8.6

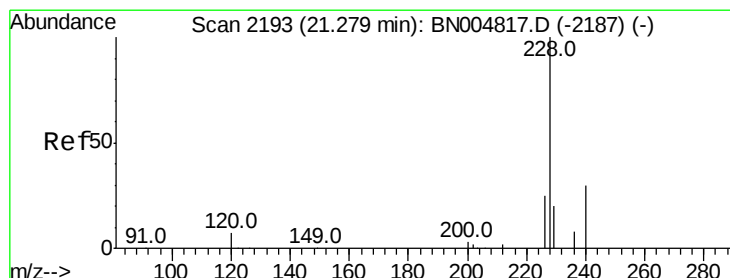
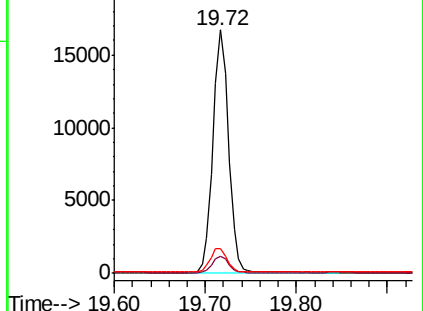
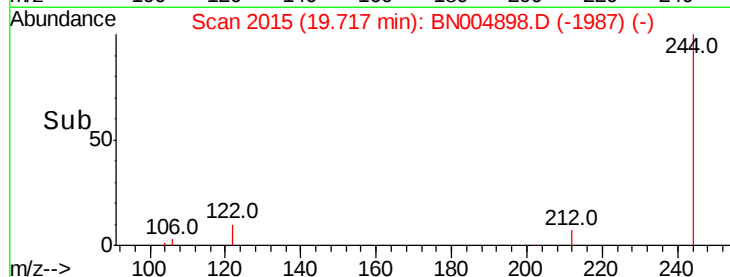
122 10.2 7.9 11.9



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



#30

Benzo(a)anthracene

Concen: 0.137 ng

RT: 21.27 min Scan# 2192

Delta R.T. -0.01 min

Lab File: BN004898.D

Acq: 22 Mar 2019 23:44

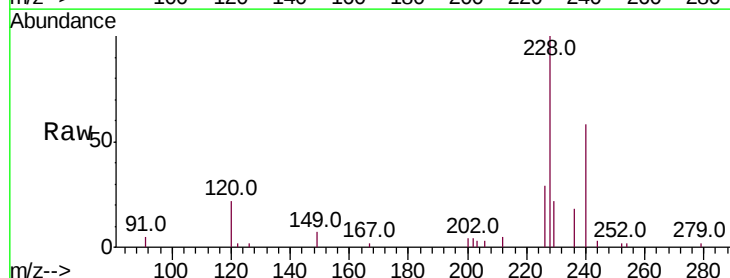
Tgt Ion:228 Resp: 10716

Ion Ratio Lower Upper

228 100

226 29.4 20.6 31.0

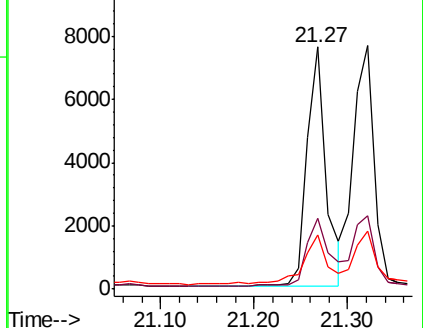
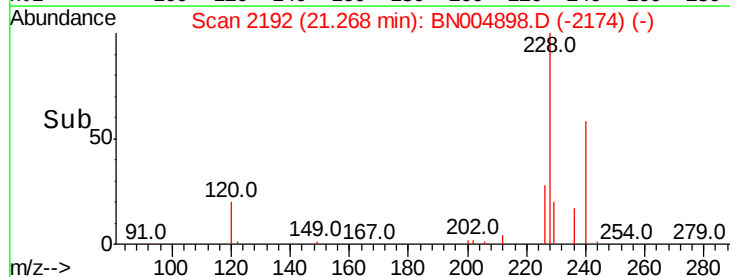
229 22.4 16.2 24.4

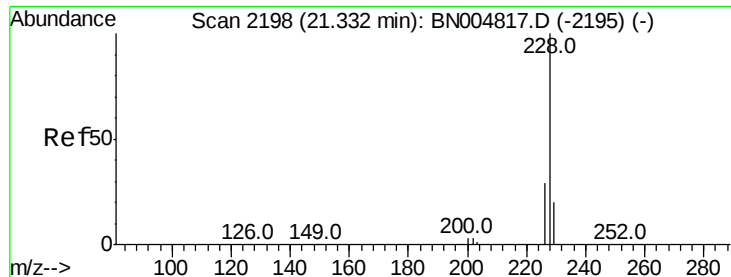


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#31

Chrysene

Concen: 0.141 ng

RT: 21.32 min Scan# 2197

Delta R.T. -0.01 min

Lab File: BN004898.D

Acq: 22 Mar 2019 23:44

Instrument :

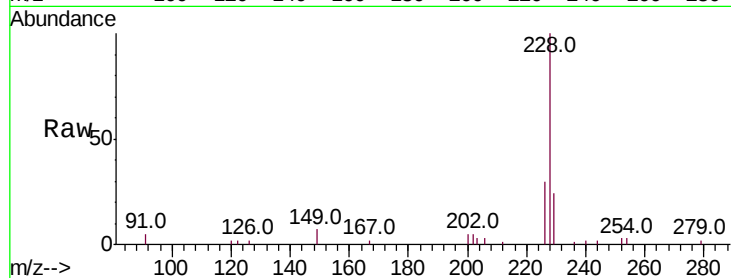
BNA_N

ClientSampleId :

PST-026-B117-031819

Tot Ion:228 Resp: 11635

Ion	Ratio	Lower	Upper
228	100		
226	30.1	23.0	34.6
229	23.6	16.2	24.2

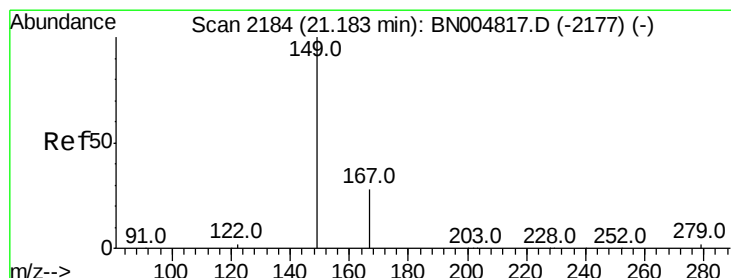
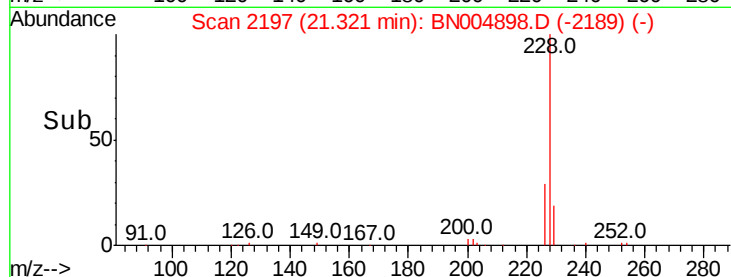
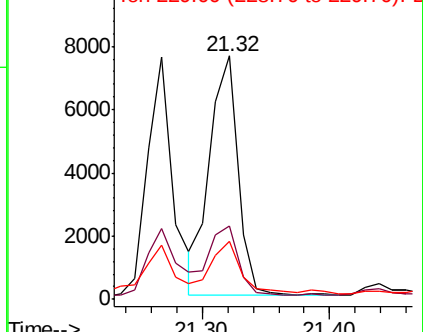


Abundance

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

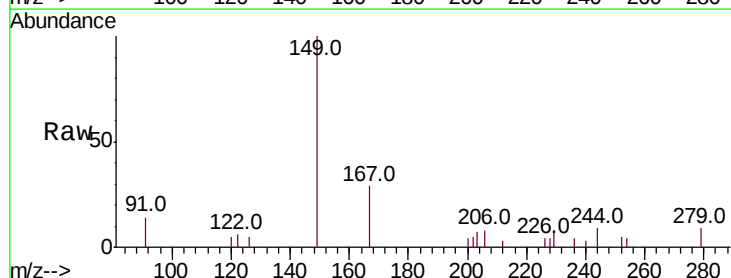
Delta R.T. 0.00 min

Lab File: BN004898.D

Acq: 22 Mar 2019 23:44

Tgt Ion:149 Resp: 3020

Ion	Ratio	Lower	Upper
149	100		
167	28.1	23.0	34.4
279	5.6	4.6	6.8

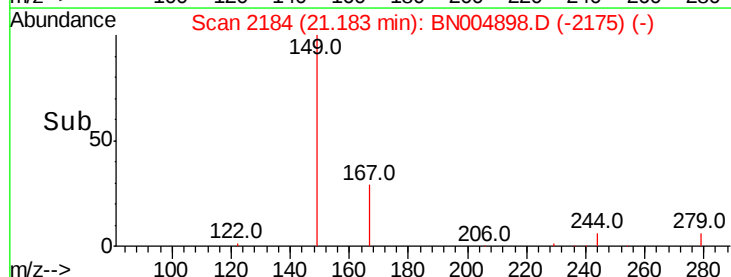
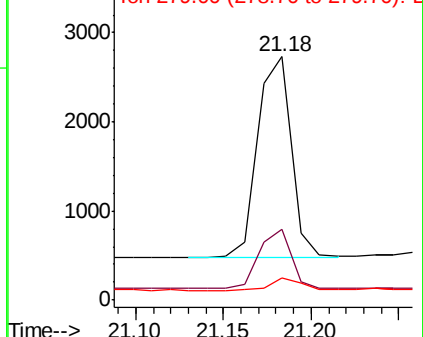


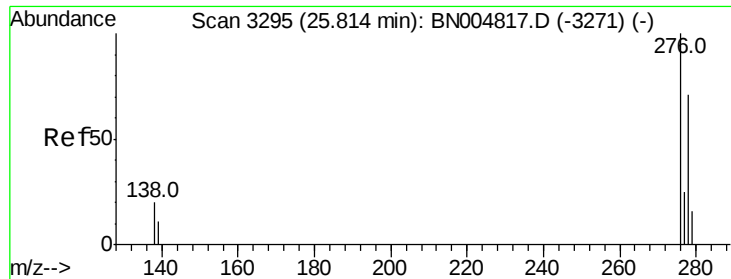
Abundance

Ion 149.00 (148.70 to 149.70): E

Ion 167.00 (166.70 to 167.70): E

Ion 279.00 (278.70 to 279.70): E





#33

Indeno(1,2,3-cd)pyrene

Concen: 0.063 ng

RT: 25.80 min Scan# 3291

Delta R.T. -0.01 min

Lab File: BN004898.D

Acq: 22 Mar 2019 23:44

Instrument :

BNA_N

ClientSampleId :

PST-026-B117-031819

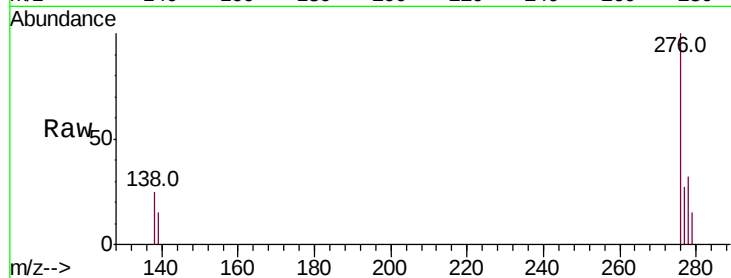
Tot Ion:276 Resp: 7502

Ion Ratio Lower Upper

276 100

138 22.1 16.6 24.8

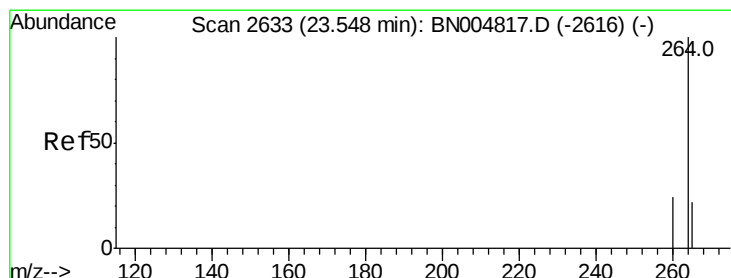
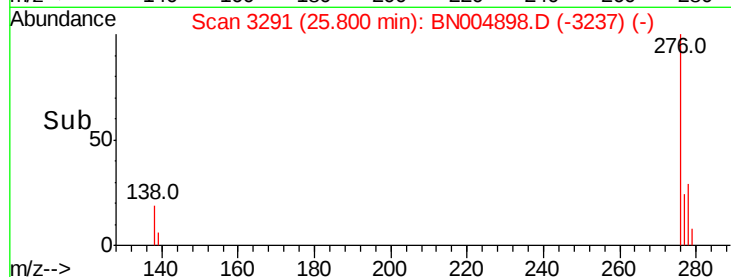
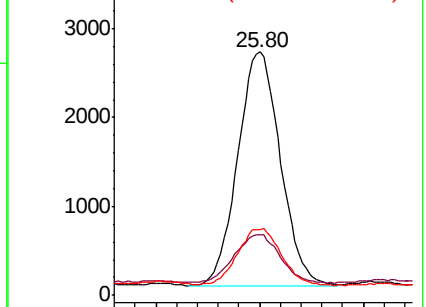
277 24.8 20.3 30.5



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



#34

Perylene-d12

Concen: 0.400 ng

RT: 23.53 min Scan# 2628

Delta R.T. -0.02 min

Lab File: BN004898.D

Acq: 22 Mar 2019 23:44

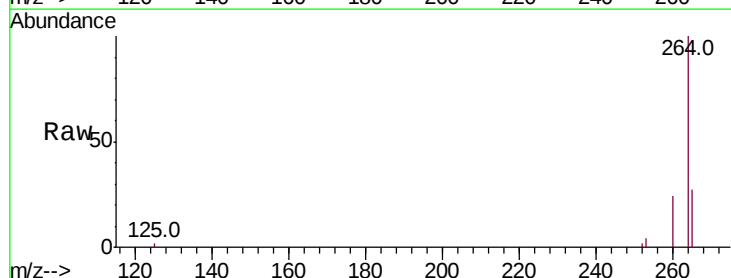
Tgt Ion:264 Resp: 25388

Ion Ratio Lower Upper

264 100

260 24.2 19.5 29.3

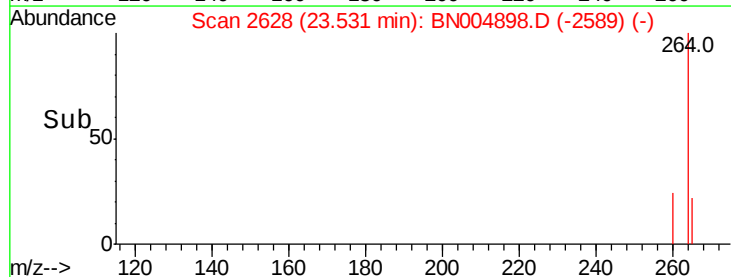
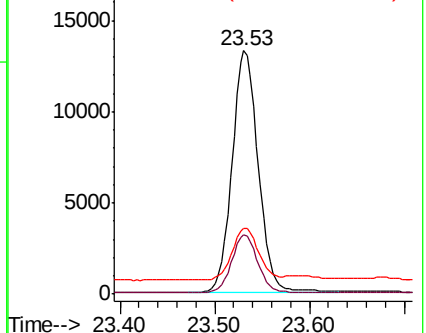
265 27.2 23.1 34.7

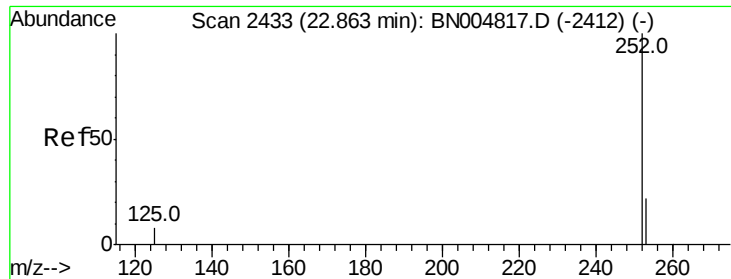


Abundance Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E





#35

Benzo(b)fluoranthene

Concen: 0.155 ng

RT: 22.86 min Scan# 2431

Delta R.T. -0.01 min

Lab File: BN004898.D

Acq: 22 Mar 2019 23:44

Instrument :

BNA_N

ClientSampleId :

PST-026-B117-031819

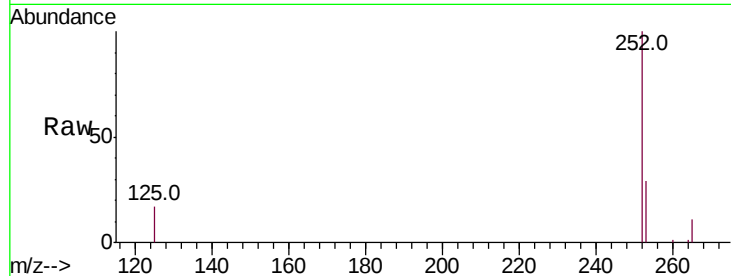
Tot Ion:252 Resp: 14250

Ion Ratio Lower Upper

252 100

253 28.9 19.0 28.4#

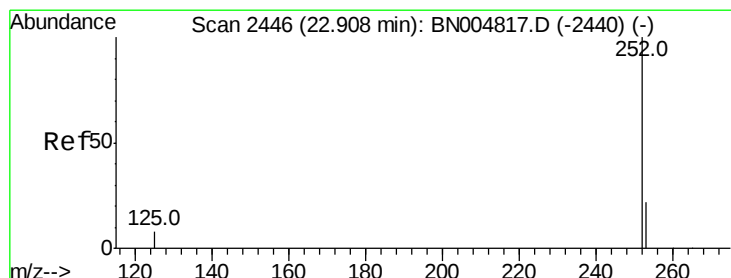
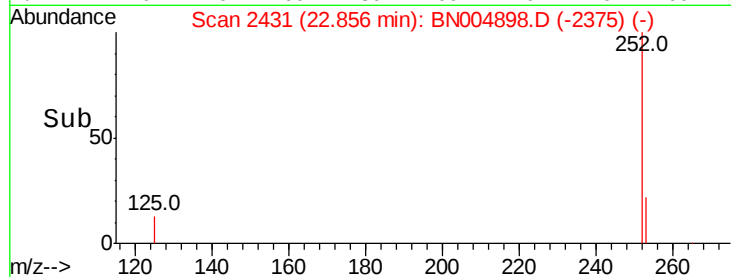
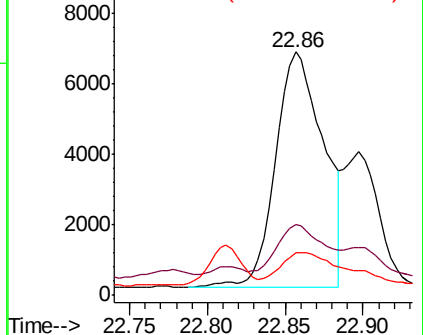
125 17.3 7.4 11.2#



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

Benzo(k)fluoranthene

Concen: 0.158 ng

RT: 22.86 min Scan# 2431

Delta R.T. -0.05 min

Lab File: BN004898.D

Acq: 22 Mar 2019 23:44

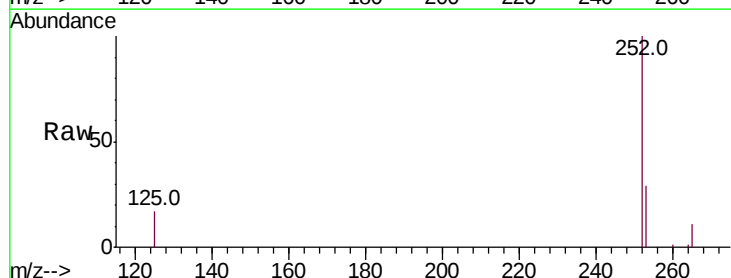
Tgt Ion:252 Resp: 14250

Ion Ratio Lower Upper

252 100

253 28.9 19.3 28.9#

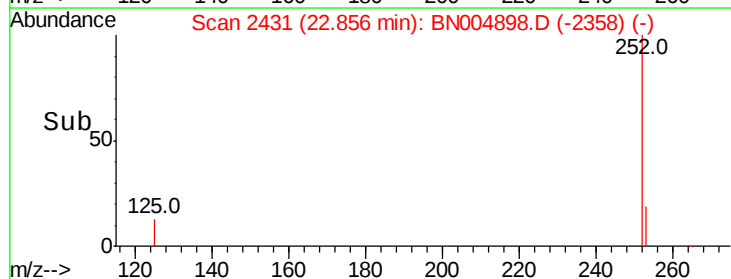
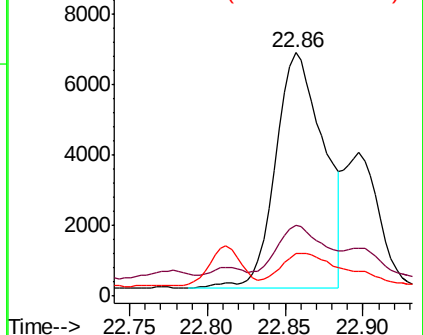
125 17.3 7.4 11.0#

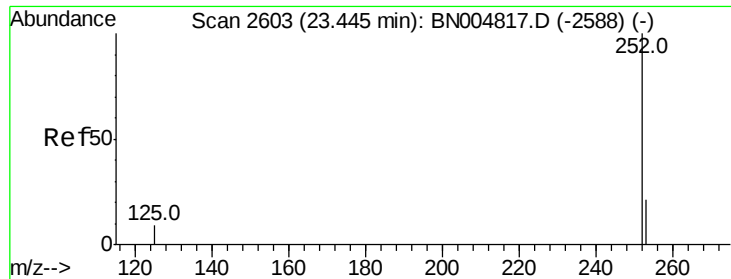


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#37

Benzo(a)pyrene

Concen: 0.125 ng

RT: 23.43 min Scan# 2600

Delta R.T. -0.01 min

Lab File: BN004898.D

Acq: 22 Mar 2019 23:44

Instrument :

BNA_N

ClientSampleId :

PST-026-B117-031819

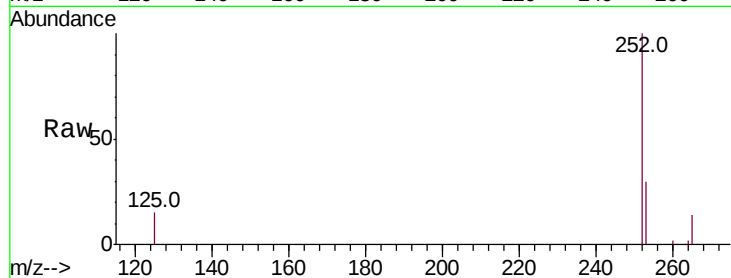
Tot Ion:252 Resp: 10524

Ion Ratio Lower Upper

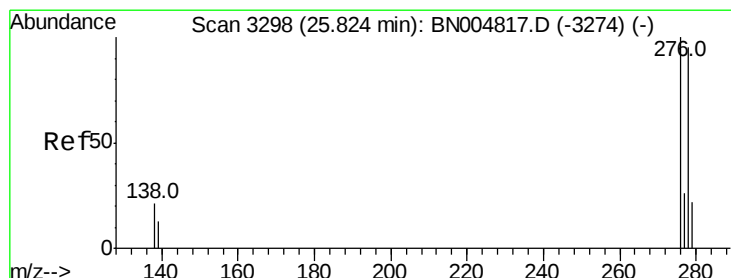
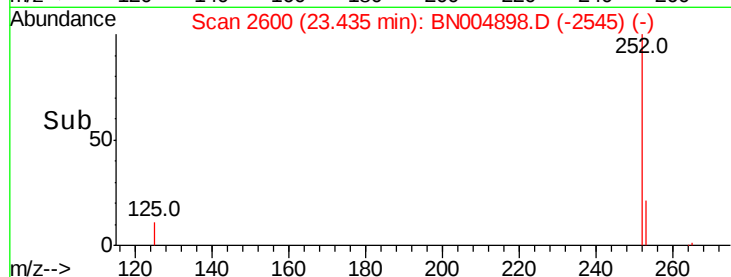
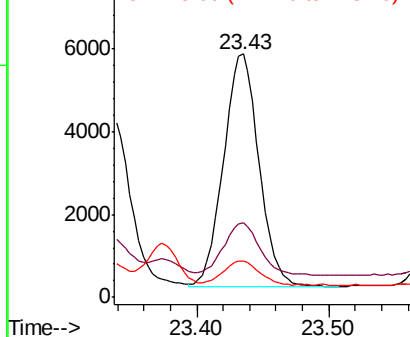
252 100

253 30.4 19.7 29.5#

125 15.1 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: 0.027 ng

RT: 25.81 min Scan# 3293

Delta R.T. -0.02 min

Lab File: BN004898.D

Acq: 22 Mar 2019 23:44

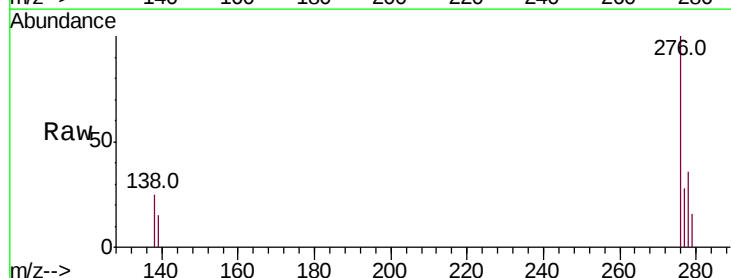
Tgt Ion:278 Resp: 2658

Ion Ratio Lower Upper

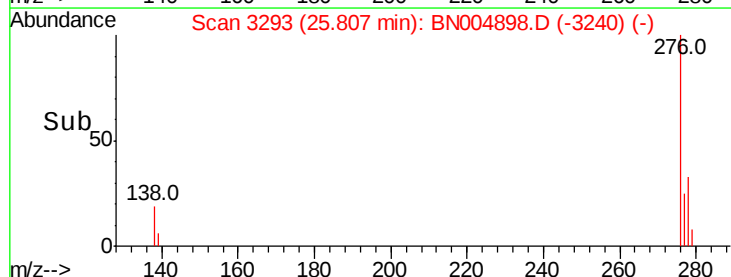
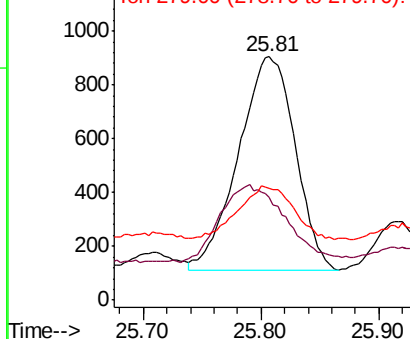
278 100

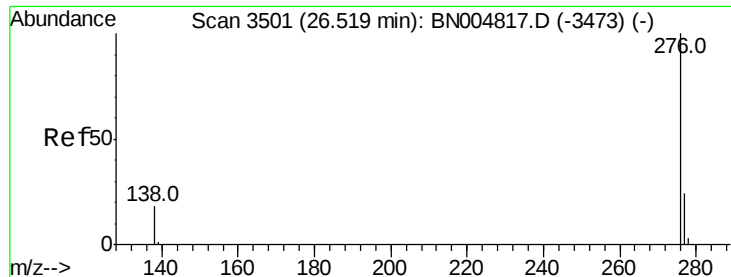
139 42.1 11.7 17.5#

279 46.1 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(a,h,i)perylene

Concen: 0.076 ng

RT: 26.50 min Scan# 3495

Delta R.T. -0.02 min

Lab File: BN004898.D

Acq: 22 Mar 2019 23:44

Instrument :

BNA_N

ClientSampleId :

PST-026-B117-031819

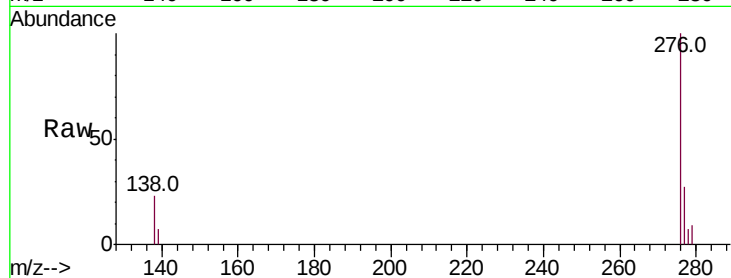
Tot Ion: 276 Resp: 7543

Ion Ratio Lower Upper

276 100

277 26.9 19.7 29.5

138 23.1 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

